AS/NZS Test Report

Equipment	:	**802.11ax Wi-Fi 6E + BT5.4 Module**
Model No.	:	**Veda IF913**
Brand Name	:	**Ezurio**
Applicant	:	**Ezurio LLC**
Address	:	**W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**
Standard	:	**EN 303 687 V1.1.1 (2023-06) 47 CFR FCC Part 15.407**
Received Date	:	**Jan. 12, 2026**
Tested Date	:	**Jan. 31 ~ Jul. 31, 2026**

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Alex Huang, Gary Chang

Alex Huang / Supervisor **Gary Chang / Manager**

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Release Record

Report No.	Version	Description	Issued Date
AR611202AO	Rev. 01	Initial issue	Aug. 18, 2026

Summary of Test Result

Ref. Std. Clause (EN 303 687)	Test Items	Measured	Result
4.3.1	Nominal Centre Frequencies/Nominal Bandwidth	Meet the requirement of limit.	Pass
4.3.2	RF Output Power (EIRP)	5945 ~ 6425GHz: 20.76 dBm	Pass
4.3.3.2	PSD	Meet the requirement of limit.	Pass
4.3.3.3	VLP NB usage with a PSD above 1 dBm/MHz	This test is not required since the device is not a VLP device.	NA
4.3.4.1 4.3.4.2	Transmitter unwanted emissions outside the 6 GHz WAS/RLAN band	Meet the requirement of limit.	Pass
4.3.4.3.2.1	Transmitter unwanted emissions within the 6 GHz WAS/RLAN band	Meet the requirement of limit.	Pass
4.3.5	Receiver Spurious Emissions	Meet the requirement of limit.	Pass
4.3.6	Channel Access Mechanism	Meet the requirement of limit.	Pass
4.3.7	Receiver Blocking	Meet the requirement of limit.	Pass
4.3.8	Receiver Selectivity	Meet the requirement of limit.	Pass
4.3.9	Mechanical And Electrical Design	Meet the requirement of limit.	Pass
4.3.10	User Access Restrictions	Meet the requirement of limit.	Pass

Ref. Std. Clause (FCC Part 15E)	Test Items	Measured	Result
15.407(d)(6)	Contention Based Protocol	Meet the requirement of limit.	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Product Details

Model Name	Part No.	Product Name	Description
Veda IF913	453-00400	802.11ax Wi-Fi 6E + BT5.4 Module	Module, Veda IF913, SIP, Tri Band, No Embedded Memory, RF Trace Pin
	453-00401		Module, Veda IF913, SIP, Tri Band, Embedded Ext. Memory, 8M PSRAM, 8M Flash, RF Trace Pin

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N_{TX})	Data Rate / MCS
5945-6425	11a	5955-6415	1-93 [24]	1	6-54 Mbps
5945-6425	ax (HE20)	5955-6415	1-93 [24]	1	MCS 0-11
Note: 802.11a/ax uses a combination of OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.					

1.1.3 Antenna Details

Integrated Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Yageo / Chip Antenna	ANT1608LL14R2460A	Chip	NA	2.3	0.1	0.1	1.8	2.5

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)
				5925~6425
Yageo / Chip Antenna	ANT1608LL14R2460A	Chip	NA	2.7

External Antenna

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
Ezurio / FlexMIMO 6E	EFD2471A3S -10MH4L	PIFA	MHF4L	2.2	3.8	3.8	3.8	3.8
Ezurio / FlexPIFA 6E	EFB2471A3S -10MH4L	PIFA	MHF4L	2.2	3.9	3.9	3.9	3.9
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3 S-10MH4L	PCB Dipole	MHF4L	2.4	4.4	4.4	4.4	4.4
Joymax Electronics / Dipole 6E	TWX-100BR S3B	Dipole	RP-SMA	2	4	4	4	4
Ezurio / FlexPIFA Dual Band	001-0021	PIFA	IPEX MHF4L	2.5	3	3	3	3
Ezurio / FlexPIFA Dual Band	EFB2455A3S -15MH4L	PIFA	MHF1	2.5	3	3	3	3

Brand / Model	Part Number	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)
				5925~6425
Ezurio / FlexMIMO 6E	EFD2471A3S-10MH4L	PIFA	MHF4L	3.3
Ezurio / FlexPIFA 6E	EFB2471A3S-10MH4L	PIFA	MHF4L	3.8
Ezurio / Mini NanoBlade Flex 6GHz	EMF2471A3S-10MH4L	PCB Dipole	MHF4L	5.2
Joymax Electronics / Dipole 6E	TWX-100BRS3B	Dipole	RP-SMA	4

1.1.4 EUT Operational Condition

Power Supply Type	3.3Vdc from host		
SW Version	IFX_Ezurio-H1CP-04022026-2		
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (85°C)	☒ Tmin (-40°C)
TPC	☒ Support	☐ Not support	
Beamforming	☐ Support	☒ Not support	
RU Configuration	☒ Full RU	☒ Partial RU	

1.1.5 Accessories

N/A

1.1.6 Channel List

802.11a / 802.11 ax HE20							
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
1	5955	25	6075	49	6195	73	6315
5	5975	29	6095	53	6215	77	6335
9	5995	33	6115	57	6235	81	6355
13	6015	37	6135	61	6255	85	6375
17	6035	41	6155	65	6275	89	6395
21	6055	45	6175	69	6295	93	6415

1.1.7 Test Tool and Duty Cycle

full RU configuration

Test Tool	Command	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
11a	98.51%	0.07
ax HE20_OFDMA	97.88%	0.09

partial RU configuration

Test Tool	Command, Version: 28.10.400.1	
Modulation Mode	**Duty Cycle Of Test Signal (%)**	**Duty Factor (dB)**
ax HE20_OFDMA_RU26	99.28%	0.03
ax HE20_OFDMA_RU52	99.44%	0.02
ax HE20_OFDMA_RU106	98.76%	0.05

1.1.8 Power Index of Test Tool

full RU configuration

Modulation Mode	Test Frequency (MHz)	
	5955	6415
11a	61	60
ax HE20_OFDMA	63	62

partial RU configuration

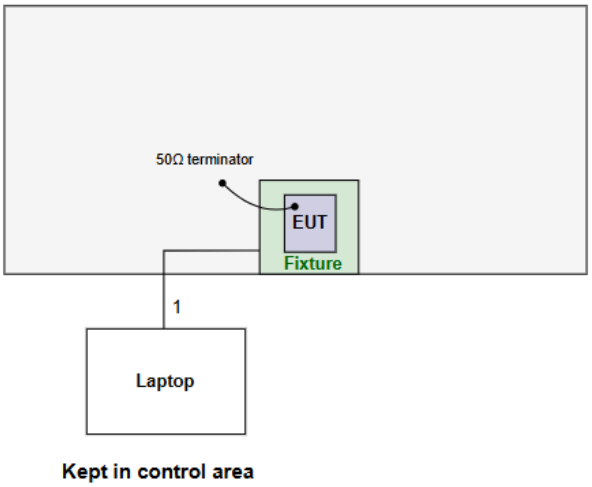
Modulation Mode	Test Frequency (MHz)	
	5955	6415
ax HE20_OFDMA_RU26	31	30
ax HE20_OFDMA_RU52	41	41
ax HE20_OFDMA_RU106	54	53

1.2 Local Support Equipment List

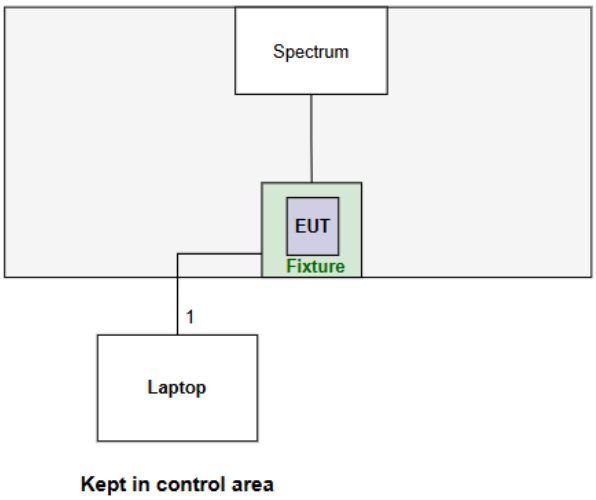
Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**S/N**	**Remarks**
1	Laptop	Lenovo	TP00003B	R9-L1LRK	Provided by applicant.
2	Fixture	---	---	---	Provided by applicant.
3	50Ω terminator	---	---	---	---

1.3 Test Setup Chart

Test Setup Diagram (Radiated Test)



Test Setup Diagram (Conducted Test)



No.	Signal cable / Length (m)
1	Type-C USB, 1.3m shielded.

1.4 Test Equipment and Calibration Data

Test Item	Radiated Emissions				
Test Site	Fully – anechoic chamber 1 / (05CH01-WS)				
Test Date	Feb. 07 ~ Feb. 13, 2026				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	Agilent	N9010A	MY54200247	Nov. 25, 2025	Nov. 24, 2026
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-524	Jan. 15, 2026	Jan. 14, 2027
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1094	Nov. 28, 2025	Nov. 27, 2026
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 23, 2026	Jan. 22, 2027
Preamplifier	Agilent	83017A	MY39501308	Nov. 24, 2025	Nov. 23, 2026
Preamplifier	EMC	EMC02325	980146	Oct. 23, 2025	Oct. 22, 2026
Preamplifier	EMC	EMC184045SE	980903	Aug. 08, 2025	Aug. 07, 2026
RF Cable-1M	EMC	EMC104-35M-35M-1000	S/N:210904	Oct. 07, 2025	Oct. 06, 2026
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16609/4	Oct. 07, 2025	Oct. 06, 2026
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY15686/4	Oct. 07, 2025	Oct. 06, 2026
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-005	Oct. 07, 2025	Oct. 06, 2026
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-006	Oct. 07, 2025	Oct. 06, 2026
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Test Date	Jan. 31 ~ Mar. 11, 2026				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101910	Apr. 18, 2025	Apr. 17, 2026
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Jun. 26, 2025	Jun. 25, 2026
Power Sensor	Agilent	U2021XA	MY54070003	Mar. 19, 2025	Mar. 18, 2026
RF Cable-1M	EMC	EMC104-35M-35M-1000	S/N:210928	Oct. 11, 2025	Oct. 10, 2026
Measurement Software	Sporton	SENSE-301893_NII	5.11.8.0	NA	NA
Measurement Software	Agilent	EN RF test	1.1501125	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Channel Access Mechanism Test				
Test Site	DF01-WS				
Tested Date	May 07, 2026				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV-7	101607	Feb. 06, 2026	Feb. 05, 2027
RF Cable	EMC	EMC105SFF-SM-SM-2000	210816	Oct. 09, 2025	Oct. 08, 2026
RF Cable	woken	woken-S05	S05-141231-102	Oct. 09, 2025	Oct. 08, 2026
RF Cable	woken	woken-S05	S05-141231-105	Oct. 09, 2025	Oct. 08, 2026
RF Cable	woken	woken-S05	S05-141231-106	Oct. 09, 2025	Oct. 08, 2026
Vector Signal Generator	R&S	SMW200A	109619	Aug. 04, 2025	Aug. 03, 2026
Oscilloscope	National Instruments	USB-5133	F651FF	Aug. 18, 2025	Aug. 17, 2026
Preamplifier	Burgeon	BPA-530	100219	Dec. 15, 2025	Dec. 14, 2026
Combiner(1X2)	woken	0120A02201801O	DOM2AEW1A22	Oct. 11, 2025	Oct. 10, 2026
Combiner(1X4)	Marvelous Microwave	MVE8577	8577	Oct. 09, 2025	Oct. 08, 2026
Direction Coupler	Marvelous Microwave	MVE4514-20	20	Oct. 09, 2025	Oct. 08, 2026
30dB Attenuator	MVE	MVE2462-30	16050401	Oct. 11, 2025	Oct. 10, 2026
Measurement Software	Sporton	Sporton_3	2.2.0.0	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Receiver Blocking				
Test Site	DF01-WS				
Tested Date	Jul. 31, 2026				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Wireless Connectivity Test Set	Anritsu	MT8862A	6272328242	May 11, 2026	May 10, 2027
Vector Signal Generator	R&S	SMW200A	109619	Aug. 04, 2025	Aug. 03, 2026
RF cable-0.5M	HUBER+SUHNER	SUCOFLEX_104	500202/4	Oct. 09, 2025	Oct. 08, 2026
RF cable-0.5M	HUBER+SUHNER	SUCOFLEX_104	296088/4	Oct. 09, 2025	Oct. 08, 2026
RF Cable	EMC	EMC105SFF-SM-SM-2000	210816	Oct. 09, 2025	Oct. 08, 2026
Combiner(1X2)	WOKEN	2WAYDIV	12101200003	Oct. 09, 2025	Oct. 08, 2026
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emissions				
Test Site	(10CH02-HY)				
Test Date	Mar. 12, 2026				
Instrument	**Brand**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
10m Semi Anechoic Chamber	TDK	SAC-10M	10CH02-HY	Aug. 29, 2025	Aug. 28, 2026
Receiver	R&S	ESU26	100422	Nov. 14, 2025	Nov. 13, 2026
Loop Antenna	TESEQ	HLA 6120	31244	Mar. 20, 2025	Mar. 19, 2026
Turn Table	EM Electronics	EM 1000	60546	--	---
RF Cable-R10m	HUBER+SUHNER	RG223/U + RG8/U	CB026-B30M	Aug. 22, 2025	Aug. 21, 2026
Software	Audix	E3	6.12 160809	--	---
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

EN 303 687 V1.1.1 (2023-06)
47 CFR FCC Part 15.407

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty		
Parameters	**Uncertainty**	**Limit**
Radio frequency	±0.0014 ppm	±0.001 %
RF power, conducted	±0.916 dB	±1,5 dB
RF power, radiated	±2.91 dB	±6 dB
Generated signal levels, conducted	±1.3 dB	±3 dB
Spurious emissions, conducted	±2.998dB	±3 dB
Spurious emissions, radiated	±3.33dB	±6 dB
Humidity	±3.5 %	±5 %
Temperature	±0.4 ºC	±2 °C
Time	±0.1 %	±10 %

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	TH01-WS, 05CH01-WS, DF01-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Test Laboratory	Sporton International Inc. Hsinhua Laboratory
Test Site	10CH02-HY
Address of Test Site	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) Tel: 886-3-327-3456, Fax: 886-3-327-0973

Note: * ICC lab subcontracts this test item to Sporton Hsinhua Lab (TAF: 3785).
Sporton Hsinhua Lab is a TAF accreditation test firm and also is an approved provider of ICC lab.

2.2 The Worst Test Modes and Channel Details

Full RU configuration						
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Mode**	**Test method**	**Note**
Carrier Frequencies Emission Bandwidth and Operating frequencies RF Output Power (EIRP) Power Spectral Density Transmitter Unwanted Emissions within the 6 GHz RLAN Band	11a ax HE20_OFDMA	5955 / 6415 5955 / 6415	6 Mbps MCS 0	TX	Conducted	-
Transmitter Unwanted Emissions outside the 6 GHz RLAN Bands ≤ 1GHz	11a ax HE20_OFDMA	5955 / 6415 5955 / 6415	6 Mbps MCS 0	TX	Conducted	-
Transmitter Unwanted Emissions outside the 6 GHz RLAN Bands > 1GHz					Radiated	Note 2
Transmitter Unwanted Emissions outside the 6 GHz RLAN Bands ≤ 30 MHz	11a ax HE20_OFDMA	5955 / 6415 5955 / 6415	6 Mbps MCS 0	TX	Radiated	Note 3
Channel Access Mechanism					Conducted	-
Contention Based Protocol	ax HE20_OFDMA	6195	MCS 0	TX	Conducted	-
Receiver Spurious Emissions ≤ 1GHz	11a ax HE20_OFDMA	5955 / 6415 5955 / 6415	6 Mbps MCS 0	RX	Conducted	-
Receiver Spurious Emissions > 1GHz					Radiated	Note 2
Receiver Spurious Emissions ≤ 30 MHz	11a ax HE20_OFDMA	5955 / 6415 5955 / 6415	6 Mbps MCS 0	RX	Radiated	Note 3
Receiver Blocking	ax HE20_OFDMA	5955 / 6415	MCS 0	RX	Conducted	-
Receiver Selectivity	ax HE20_OFDMA	5955 / 6375	MCS 0	RX	Conducted	-

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
2. The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.
3. Test configurations for Spurious Emission below 30MHz Test:
   Configuration 1: Chip Antenna_ANT1608LL14R2460A
   Configuration 2: Dipole 6E_TWX-100BRS3B
   Configuration 3: FlexMIMO 6E_EFD2471A3S-10MH4L
   Configuration 4: FlexPIFA 6E_EFB2471A3S-10MH4L
   Configuration 5: FlexPIFA Dual Band_001-0021
   Configuration 6: FlexPIFA Dual Band_EFB2455A3S-15MH4L
   Configuration 7: Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L
4. Two skus had been covered during the pretest and found that **Part No. 453-00401** was the worst case and was selected for the final test. (sku 1: Part No. 453-00400, sku 2: Part No. 453-00401)

Partial RU configuration						
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate**	**Mode**	**Test method**	**Note**
Power Spectral Density	ax HE20_OFDMA RU26	5955 / 6415	MCS 0	TX	Conducted	-
	ax HE20_OFDMA RU52					
	ax HE20_OFDMA RU106					
Transmitter Emissions ≤ 1GHz	ax HE20_OFDMA RU106	5955 / 6415	MCS 0	TX	Conducted	-
Transmitter Emissions >1GHz					Radiated	Note 2
Transmitter Emissions ≤ 30 MHz	ax HE20_OFDMA RU106	5955 / 6415	MCS 0	TX	Radiated	Note 3

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** result was found as the worst case and was shown in this report.
2. The 50Ω terminator is connected to antenna port of EUT for radiated emission measurement.
3. Test configurations for Spurious Emission below 30MHz Test:
   Configuration 1: Chip Antenna_ANT1608LL14R2460A
   Configuration 2: Dipole 6E_TWX-100BRS3B
   Configuration 3: FlexMIMO 6E_EFD2471A3S-10MH4L
   Configuration 4: FlexPIFA 6E_EFB2471A3S-10MH4L
   Configuration 5: FlexPIFA Dual Band_001-0021
   Configuration 6: FlexPIFA Dual Band_EFB2455A3S-15MH4L
   Configuration 7: Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L
4. Two skus had been covered during the pretest and found that **Part No. 453-00401** was the worst case and was selected for the final test. (sku 1: Part No. 453-00400, sku 2: Part No. 453-00401)

3 Transmitter Test Results

3.1 Carrier Frequencies

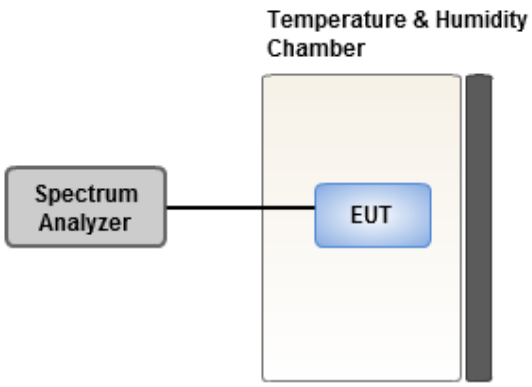
3.1.1 Limit of Carrier Frequencies

The nominal centre frequency for any given channel shall be maintained within the range of fc ± 0,002 %

3.1.2 Test Procedures

Reference to clause 5.4.2.2 of ETSI EN 303 687 V1.1.1 (2023-06).

3.1.3 Test Setup



3.1.4 Test Result

Ambient Condition	22°C / 68%	**Tested By**	Ryan Lee

Refer to Appendix A.

3.2 Emission Bandwidth and Operating frequencies

3.2.1 Limit of Emission Bandwidth and Operating frequencies

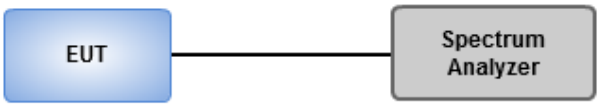
The Nominal Channel Bandwidth for a single Operating Channel shall be 20 MHz

Equipment may have simultaneous transmissions on more than one channel with a nominal bandwidth of 20 MHz.
When equipment has simultaneous transmissions in adjacent channels, these transmissions may be considered as one signal with an actual nominal bandwidth (N) of "n" times the nominal bandwidth of an individual channel where "n" is the number of adjacent channels. When equipment has simultaneous transmissions in non-adjacent channels, each power envelope shall be considered separately.

3.2.2 Test Procedures

Reference to clause 5.4.2.2 of ETSI EN 303 687 V1.1.1 (2023-06).

3.2.3 Test Setup



3.2.4 Test Result

Ambient Condition	22°C / 68%	**Tested By**	Ryan Lee

Refer to Appendix B.

3.3 RF Output Power and Power density

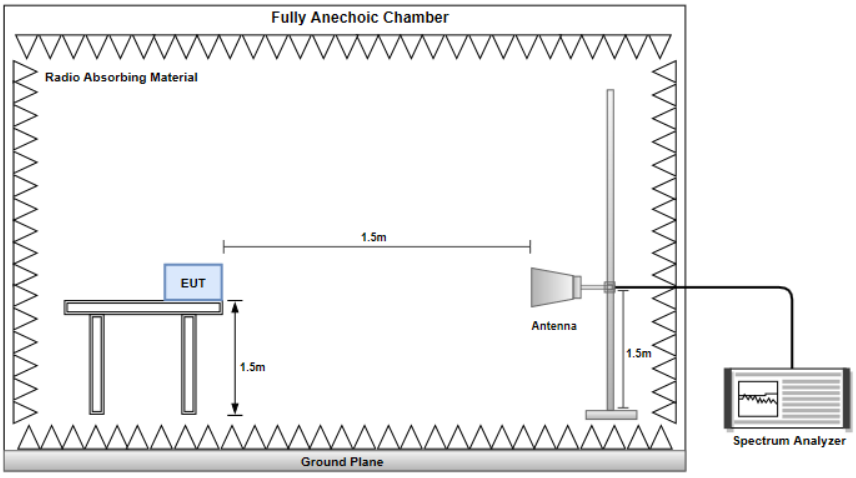
3.3.1 Limit of RF Output Power and Power Density

Frequency Range (MHz)	RF Output Power Limit (dBm)		PSD Limit (dBm/MHz)		
	LPI usage	VLP usage	LPI usage	VLP usage	VLP NB usage
5945 to 6425	23	14	10	1	10

3.3.2 Test Procedures

Reference to clause 5.4.3.2 / 5.4.4.2 of ETSI EN 303 687 V1.1.1 (2023-06).

3.3.3 Test Setup



3.3.4 Test Result

Ambient Condition	22°C / 68%	**Tested By**	Ryan Lee

Refer to Appendix C.

3.4 Transmitter Unwanted Emissions outside the 6 GHz RLAN Bands

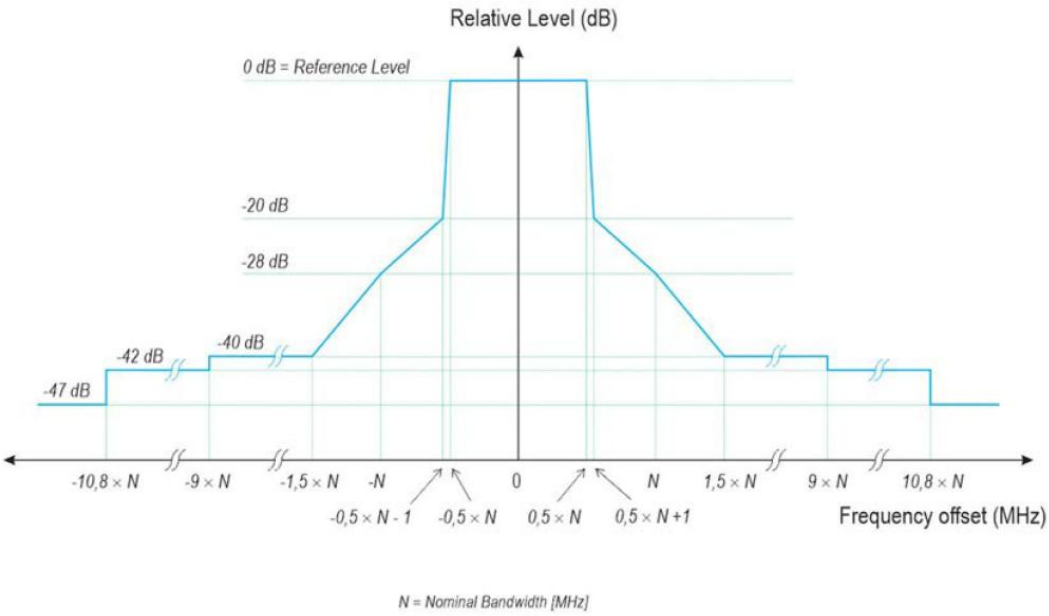
3.4.1 Limit of Transmitter Unwanted Emissions outside the 6 GHz RLAN Bands

Spurious Emissions Limit (Peak Power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.5μW) e.i.r.p (59 dBμV/m at 10 metres)	< 150 kHz	1 kHz
	150 kHz – 30 MHz	10 kHz

Transmitter unwanted emission limits in the out-of-band domain

Equipment	Frequency (MHz)	Equipment	Out-of-band/spurious domain boundary separation from the nominal centre frequency under test (where applicable)	
			N <100 MHz	N≥ 100 MHz
LPI	< 5 935	−22dBm/MHz	±250 % × N	±150 % × N + 100 MHz
	> 6 425	Spectral power mask as defined by application of figure 1		
VLP	< 5 935	−45 dBm/MHz (see note)		
	> 6 425	Spectral power mask as defined by application of figure 1		
NOTE: See also Commission Implementing Decision (EU) 2021/1067 of 17.6.2021 [i.12] Table 2, Note 3. “The appropriateness of this limit shall be subject to review by 31 December 2024. In the absence of justified evidence, a value of -37 dBm/MHz shall apply from 1 January 2025				

Figure 1



Transmitter unwanted emission limits in the spurious domain

Frequency Range	Maximum Power	Bandwidth
30 MHz ≤ f < 87,5 MHz	-36 dBm	100 kHz
87,5 MHz ≤ f ≤ 118 MHz	-54 dBm	100 kHz
118 MHz < f < 174 MHz	-36 dBm	100 kHz
174 MHz ≤ f ≤ 230 MHz	-54 dBm	100 kHz
230 MHz < f < 470 MHz	-36 dBm	100 kHz
470 MHz ≤ f ≤ 694 MHz	-54 dBm	100 kHz
694 MHz < f ≤ 1 GHz	-36 dBm	100 kHz
1 GHz < f ≤ 26 GHz	-30 dBm	1 MHz

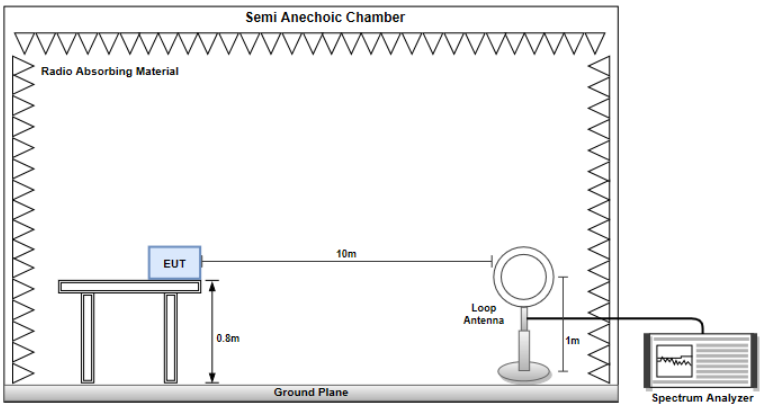
3.4.2 Test Procedures

Reference to clause 5.4.5.2 of ETSI EN 303 687 V1.1.1 (2023-06).

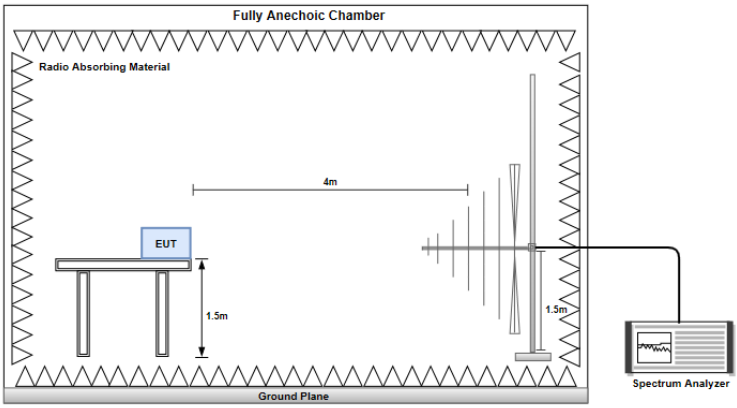
3.4.3 Test Setup

For Transmit unwanted emissions in the spurious emissions.

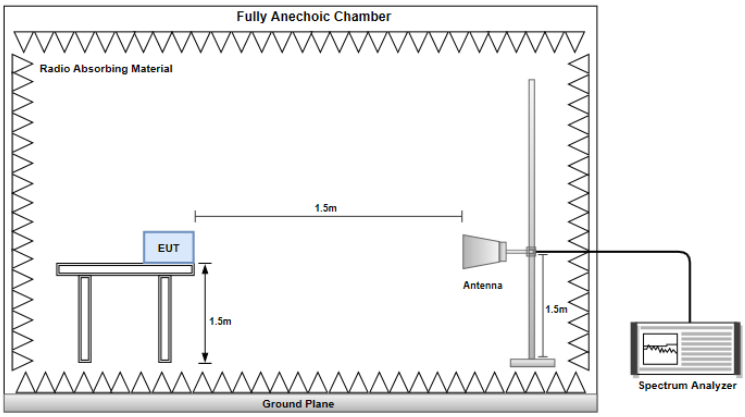
Below 30MHz



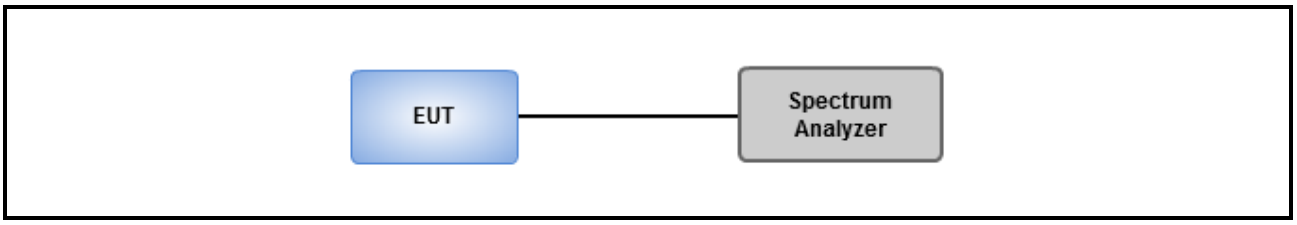
Below 1GHz



Above 1 GHz



For Transmit unwanted emissions in the out of band domain emissions.



3.4.4 Test Results

For Transmit unwanted emissions in the spurious emissions.

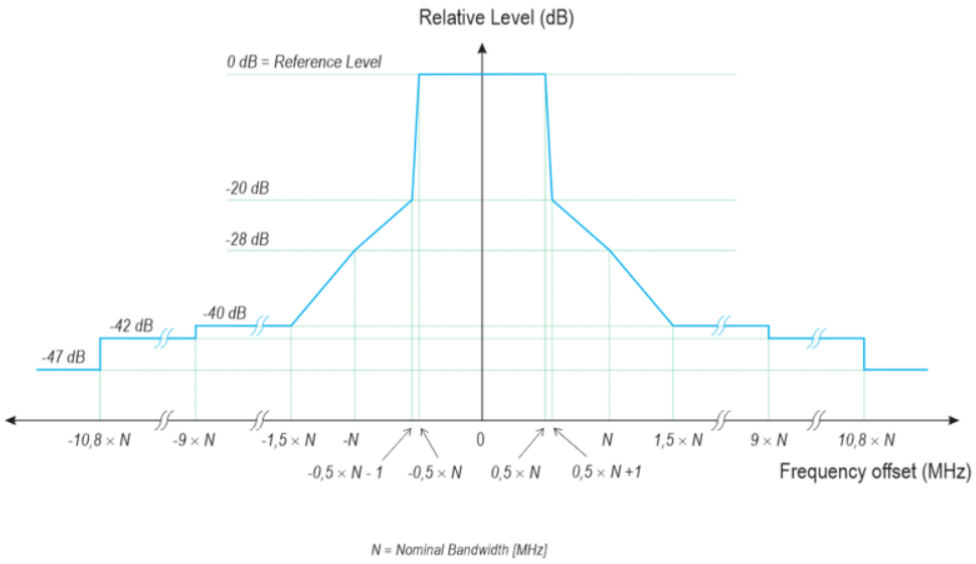
Refer to Appendix D.

For Transmit unwanted emissions in the out of band domain emissions.

Refer to Appendix E.

3.5 Transmitter Unwanted Emissions within the 6 GHz RLAN Band

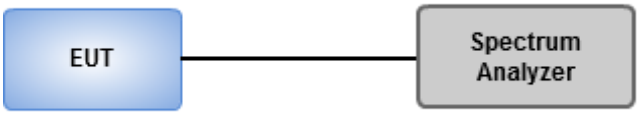
3.5.1 Limit of Transmitter Unwanted Emissions within the 6 GHz RLAN Band



3.5.2 Test Procedures

Reference to clause 5.4.6.2 of ETSI EN 303 687 V1.1.1 (2023-06).

3.5.3 Test Setup



3.5.4 Test Results

Ambient Condition	22°C / 68%	**Tested By**	Ryan Lee

Refer to Appendix E.

4 Receiver Test Results

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

Spurious Emissions Limit (Peak Power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.5μW) e.i.r.p (59 dBμV/m at 10 metres)	< 150 kHz	1 kHz
	150 kHz – 30 MHz	10 kHz

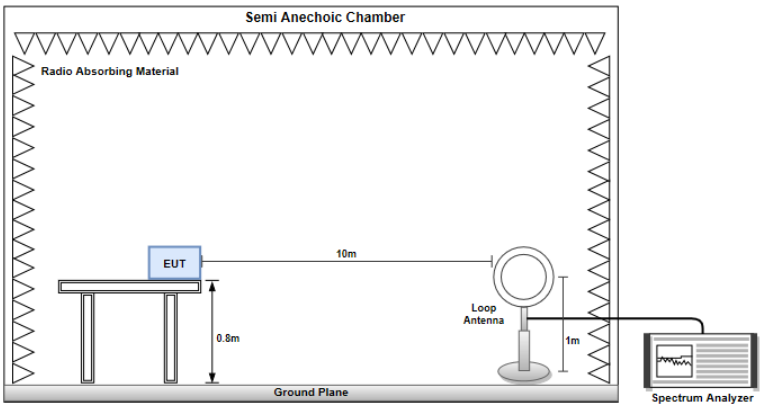
Frequency Range	Maximum Power	Measurement Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 26 GHz	-47 dBm	1 MHz

4.1.2 Test Procedures

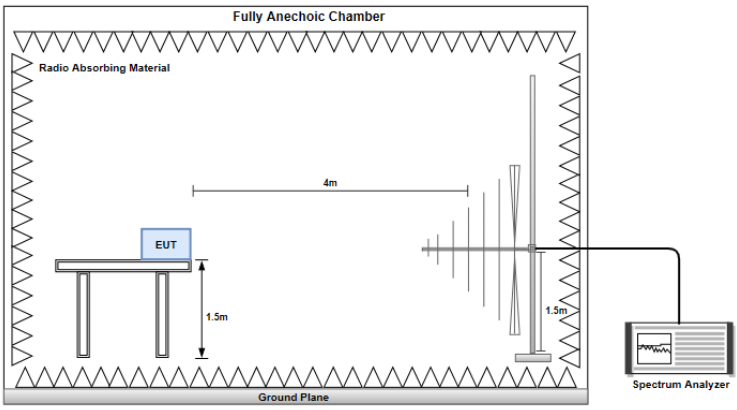
Reference to clause 5.4.7.2 of ETSI EN 303 687 V1.1.1 (2023-06).

4.1.3 Test Setup

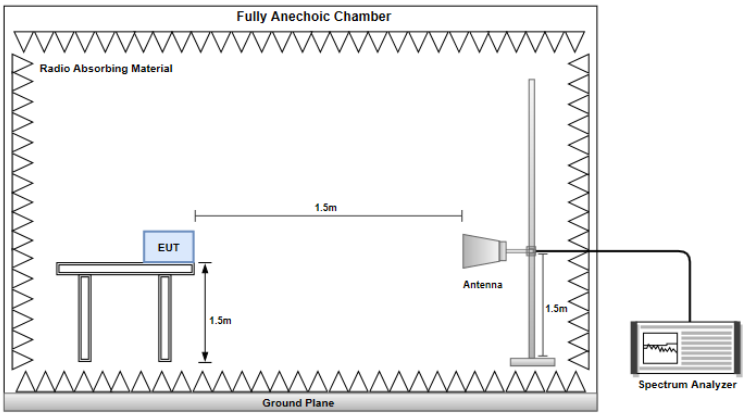
Below 30MHz



Below 1GHz



Above 1 GHz



4.1.4 Test Results

Refer to Appendix F.

5 Channel Access Mechanism Test Results

5.1 Channel Access Mechanism

5.1.1 Channel Access Mechanism Limit

Channel Access Mechanism Limit

ED Threshold level

For $P_{max} \leq 14$ dBm: EDT = −75 dBm/MHz

For 14 dBm < $P_{max} \leq 24$ dBm: EDT = −85 dBm/MHz + (24 dBm − P_{max})

For $P_{max} \geq 24$ dBm: EDT = −85 dBm/MHz

Short Control Signalling Transmissions:

- within an observation period of 50 ms, the number of SCS transmissions by the equipment shall be equal to or less than 50; and
- the total duration of the equipment's SCS transmissions shall be less than 2 500 µs within said observation period.

Channel Access Mechanism / Maximum Channel Occupancy Time(s)

For Supervising Devices.

Class #	p_0	CW_{min}	CW_{max}	Maximum Channel Occupancy Time (COT)
4	1	3	7	2 ms
3	1	7	15	4 ms
2	3	15	63	6 ms (see note 1 and note 2)
1	7	15	1 023	6 ms (see note 1)

NOTE 1: The maximum COT of 6 ms may be increased to 8 ms by inserting one or more pauses. The minimum duration of a pause shall be 100 µs. The maximum duration (channel occupancy) before including any such pause shall be 6 ms. Pause duration is not included in the COT.

NOTE 2: The maximum COT of 6 ms may be increased to 10 ms by extending CW to CW × 2 + 1 when selecting the random number q for any backoff(s) that precede the channel occupancy that may exceed 6 ms or which follow the channel occupancy that exceeded 6 ms. The choice between preceding or following a channel occupancy shall remain unchanged during the operation time of the device.

NOTE 3: The values for $p_{0,\ CWmin,\ CWmax}$ are minimum values. Greater values are allowed.

Channel Access Mechanism / Maximum Channel Occupancy Time(s)

For Supervised Devices.

Class #	p_0	CW_{min}	CW_{max}	Maximum Channel Occupancy Time (COT)
4	2	3	7	2 ms
3	2	7	15	4 ms
2	3	15	1 023	6 ms (see note 1)
1	7	15	1 023	6 ms (see note 1)

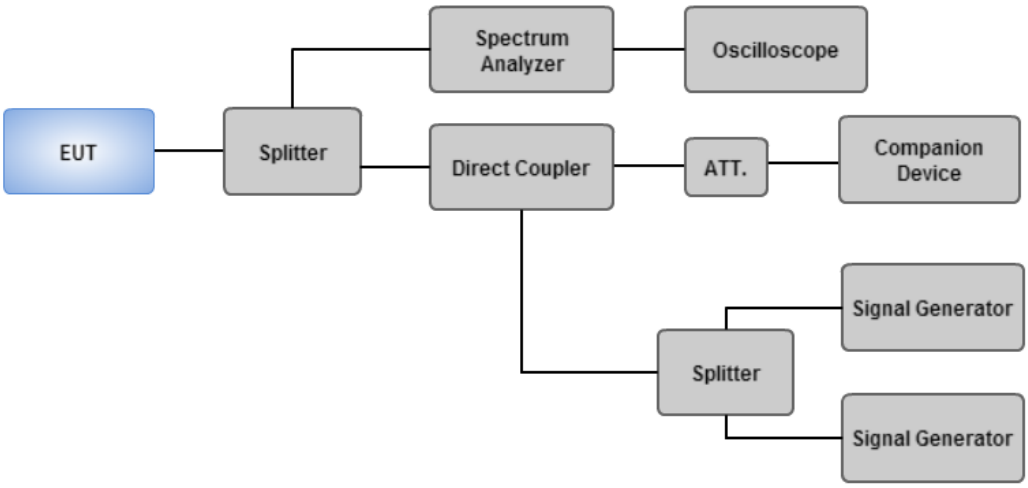
NOTE 1: The maximum COT of 6 ms may be increased to 8 ms by inserting one or more pauses. The minimum duration of a pause shall be 100 µs. The maximum duration (channel occupancy) before including any such pause shall be 6 ms. Pause duration is not included in the COT.

NOTE 2: The values for p_0, CW_{min}, CW_{max} are minimum values. Greater values are allowed.

5.1.2 Test Procedures

Reference to clause 5.4.8.3 of ETSI EN 303 687 V1.1.1 (2023-06).

5.1.3 Test Setup



5.1.4 Test Result

Ambient Condition	25°C / 64%	Tested By	Jack Li

Refer to Appendix G.

6 Receiver Blocking Test Results

6.1 Receiver Blocking

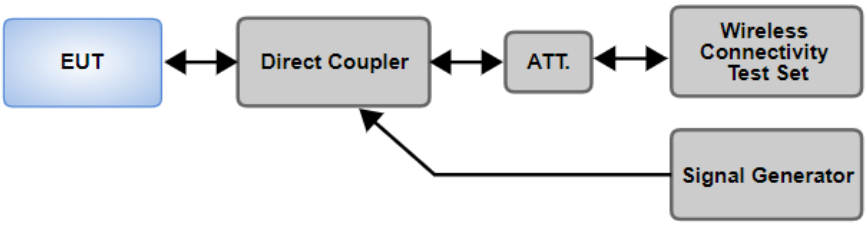
6.1.1 Limit of Receiver Blocking

Receiver Blocking Parameters			
Wanted signal mean power from companion device (dBm)	**Blocking signal frequency (MHz)**	**Blocking signal power (dBm) (see note 2)**	**Type of blocking signal**
P_{min} + 6 dB	5 895 (See note 3) 6 475	−53	Continuous Wave
P_{min} + 6 dB	5 695 (See note 3) 5 795 (See note 3) 6 575 6 675	−47	Continuous Wave
NOTE 1:	Pmin is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.3.7.2 in the absence of any blocking signal.		
NOTE 2:	The levels are specified at the UUT antenna connector(s). In case of radiated measurements on a UUT with an integral antenna equipment without external (temporary) antenna connector(s) provided, the equivalent Power Flux Density (PFD) at the UUT is the ratio of the level specified and the antenna area of the UUT antenna. In case of radiated measurements with a substitution antenna, the equivalent PFD at the said antenna is the ratio of the level specified and the antenna area of the substitution antenna		
NOTE 3:	Where the equipment also supports WAS/RLAN operation in the 5 GHz bands compliant with EN 301 893, this frequency is not to be tested.		

6.1.2 Test Procedures

Reference to clause 5.4.9.2 of ETSI EN 303 687 V1.1.1 (2023-06).

6.1.3 Test Setup



6.1.4 Test Result

Ambient Condition	22.5°C / 64%	**Tested By**	Jack Li

Refer to Appendix H.

6.2 Receiver Selectivity

6.2.1 Limit of Receiver Selectivity

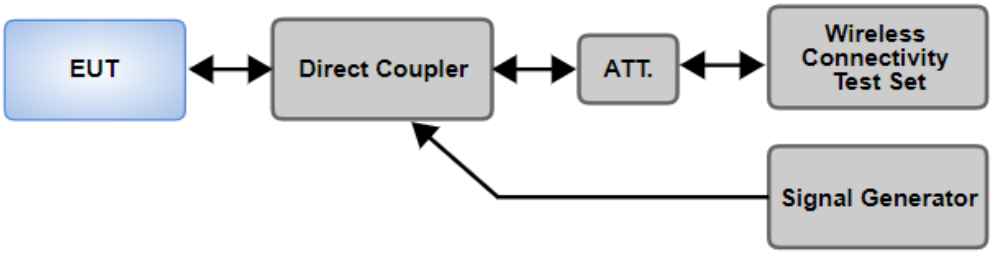
Wanted signal mean power from companion device (dBm)	Interferer signal frequency offset (MHz)	Interferer signal power (dBm) (see note 2 and note 3)	Type of blocking signal
P_{min} + 10 dB	20	Pmin + 26 dB	Same as the wanted signal with an equivalent nominal bandwidth
P_{min} + 10 dB	(see note 4)	Pmin + 32 dB	Same as the wanted signal with an equivalent nominal bandwidth

NOTE 1:	Pmin is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined clause 4.3.8.2 in the absence of any interfering signal.
NOTE 2:	The levels are specified at the UUT antenna connector(s). In case of radiated measurements on a UUT with an integral antenna equipment without external (temporary) antenna connector(s) provided, the equivalent Power Flux Density (PFD) at the UUT is the ratio of the level specified and the antenna area of the UUT antenna. In case of radiated measurements with a substitution antenna, the equivalent PFD at the said antenna is the ratio of the level specified and the antenna area of the substitution antenna.
NOTE 3:	The level specified for the interferer signal applies at the lowest data rate
NOTE 4	The requirement applies with one interferer signal confined within the range 5 945 MHz to 6 425 MHz for interferer frequencies on either side of the wanted signal. The interferer signal frequency offset is the absolute value of the frequency separation between the interferer centre frequency and the nominal centre frequency of the wanted signal. If the manufacturer decides to make use of the permitted frequency offset of the nominal centre frequency of the wanted signal as specified in clause 4.3.1.3, a maximum offset of the interferer centre frequency offset of ±200 kHz from the said nominal centre frequencies and a resulting offset of the interferer signal frequency offset of up to ±400 kHz are also permitted.

6.2.2 Test Procedures

Reference to clause 5.4.10.2 of ETSI EN 303 687 V1.1.1 (2023-06).

6.2.3 Test Setup



6.2.4 Test Result

Ambient Condition	22.5°C / 64%	**Tested By**	Jack Li

Refer to Appendix I.

7 Contention Based Protocol Test Results

7.1 Contention Based Protocol

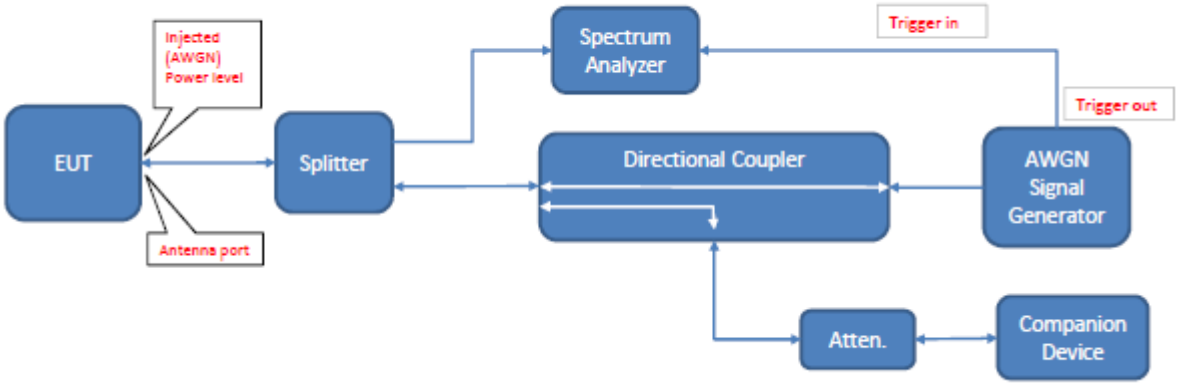
7.1.1 Limit

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty

7.1.2 Test Procedure

1. Configure the EUT to transmit with a constant duty cycle
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EEUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
6. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
9. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
10. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

7.1.3 Test Setup



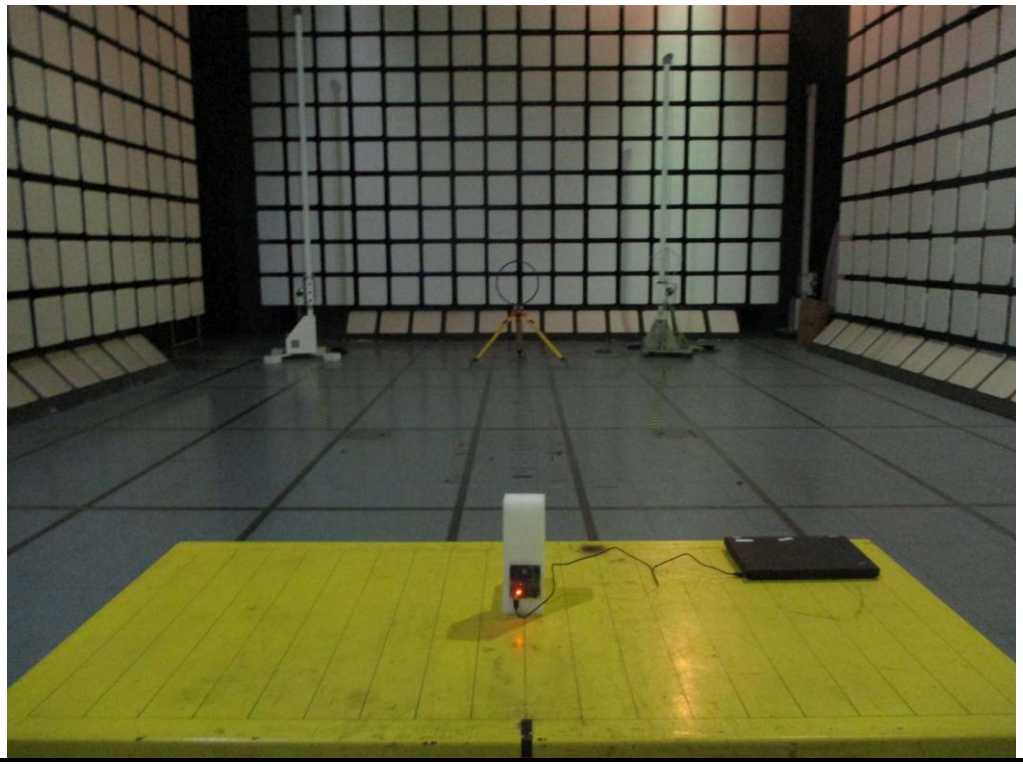
7.1.4 Test Result

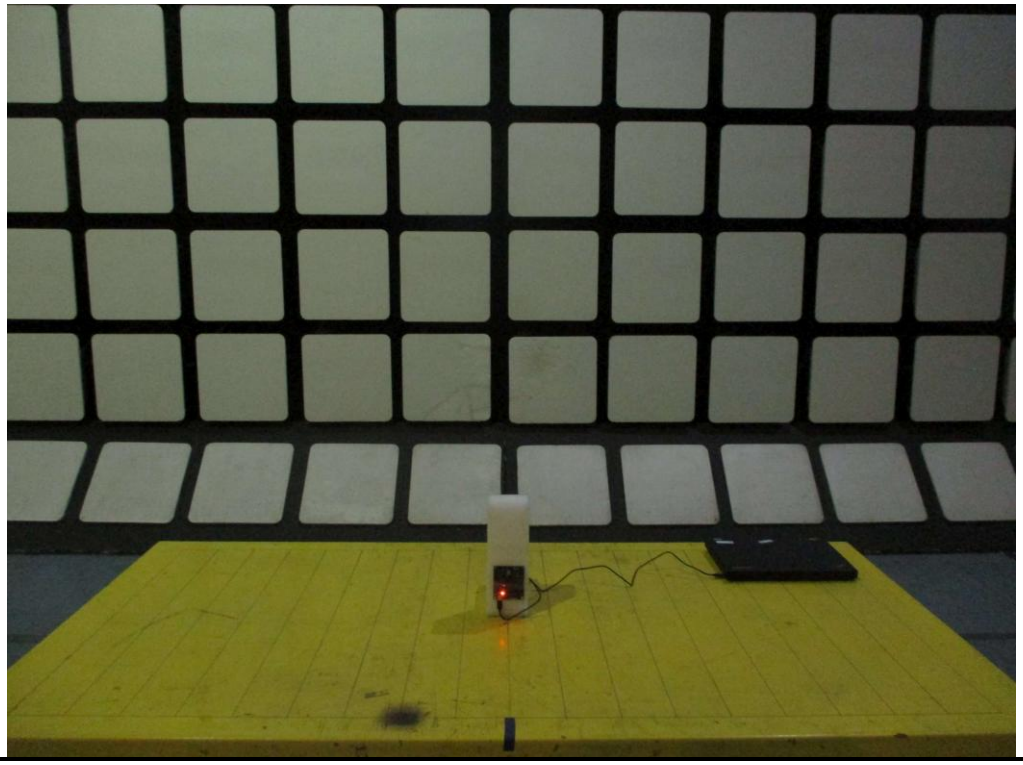
Ambient Condition	23°C / 65%	Tested By	Jack Li

Refer to Appendix J.

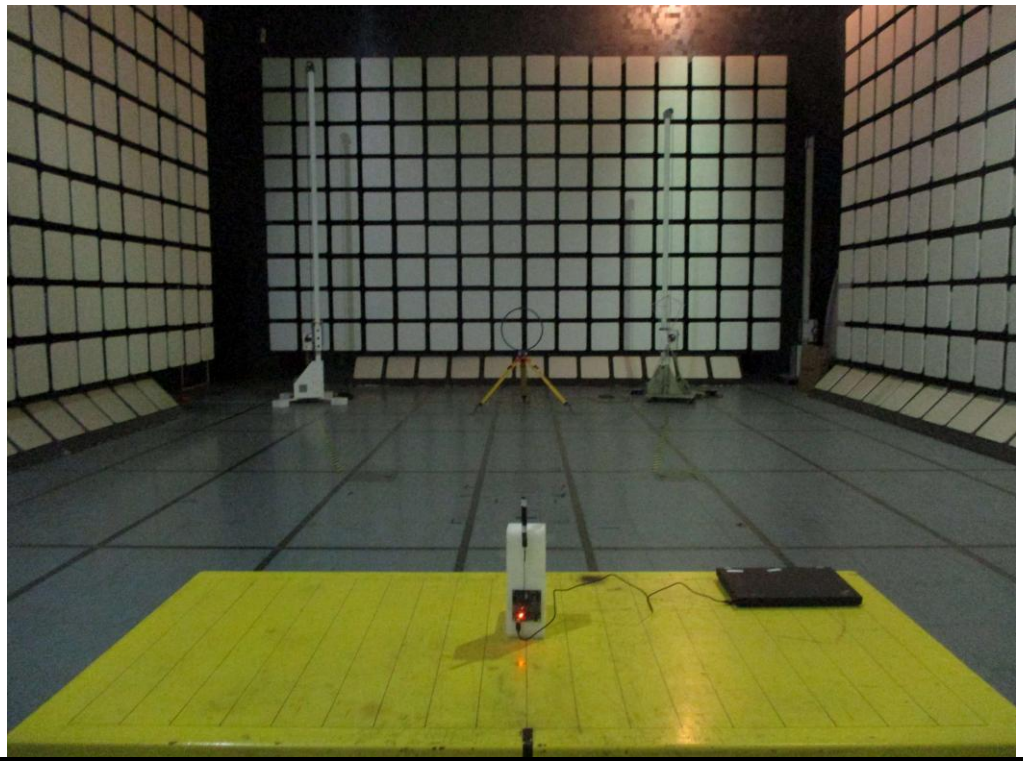
8 Photographs of the Test Configuration

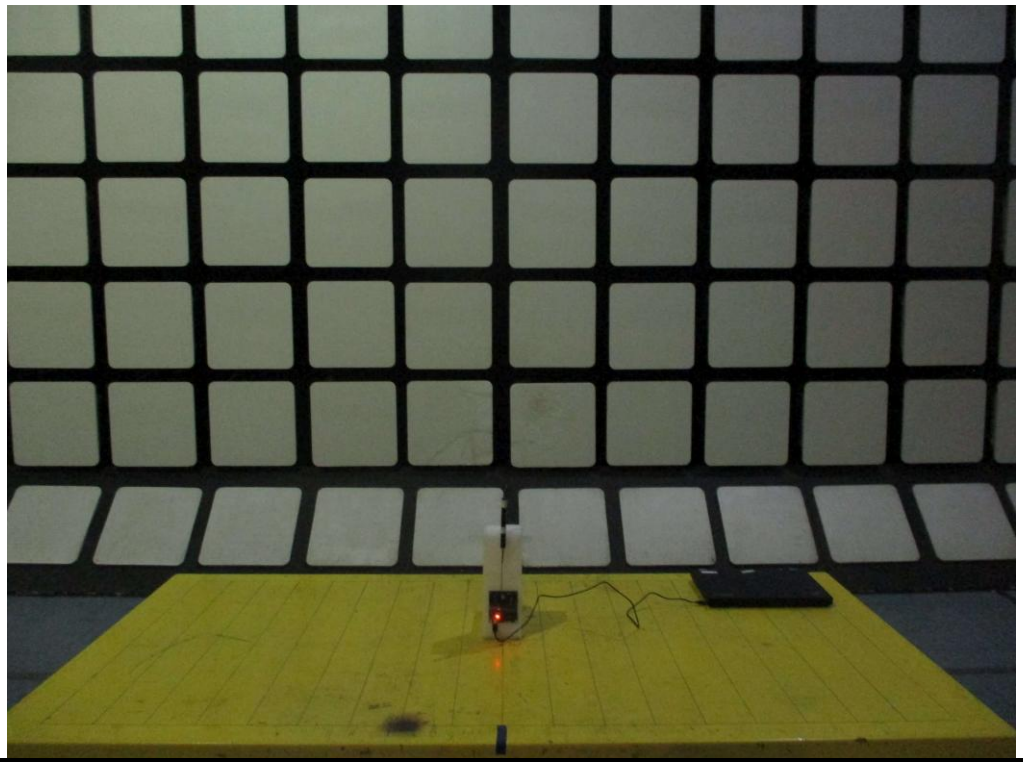
Spurious Emission below 30MHz Test (Chip Antenna_ANT1608LL14R2460A)



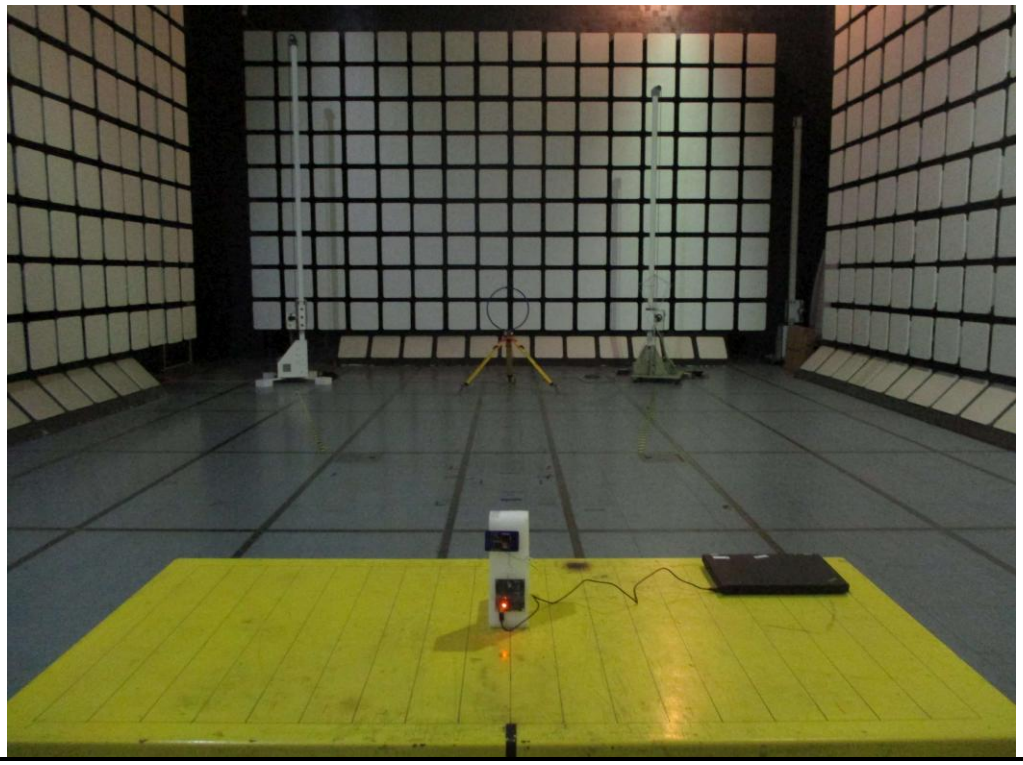


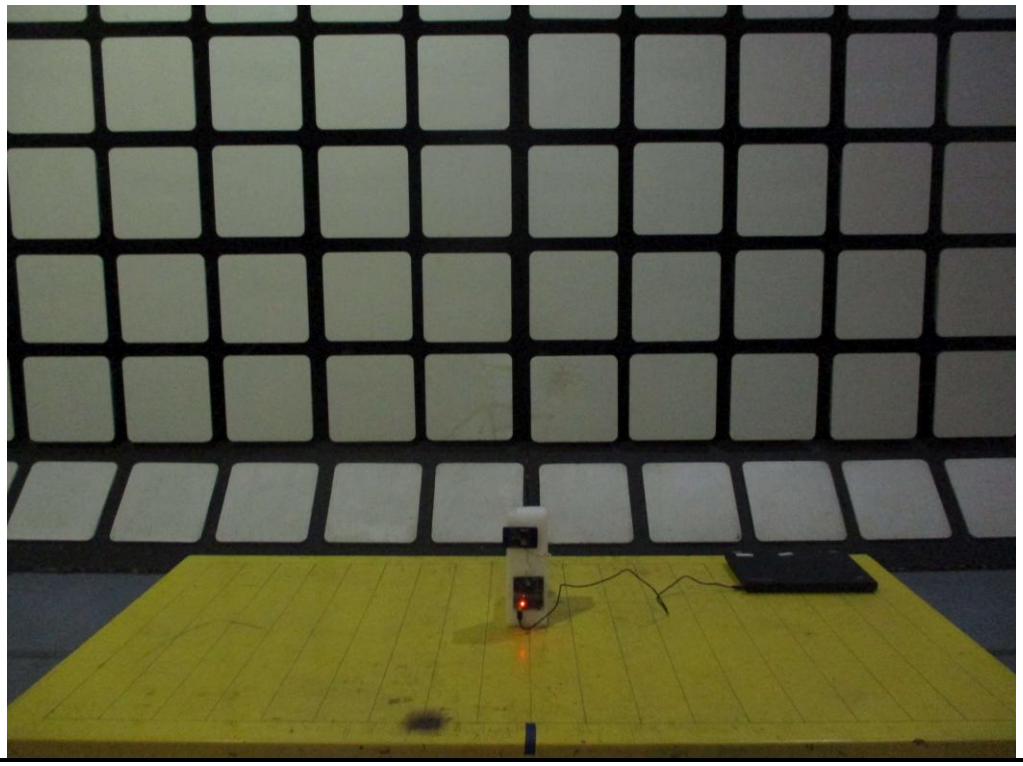
Spurious Emission below 30MHz Test (Dipole 6E_TWX-100BRS3B)



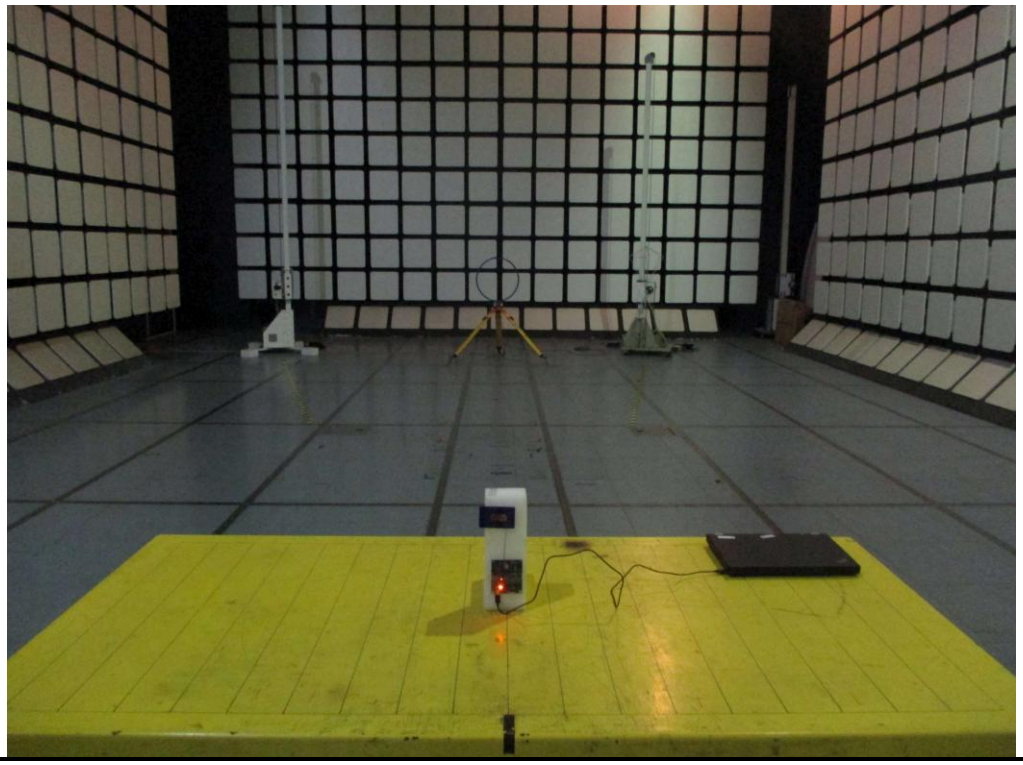


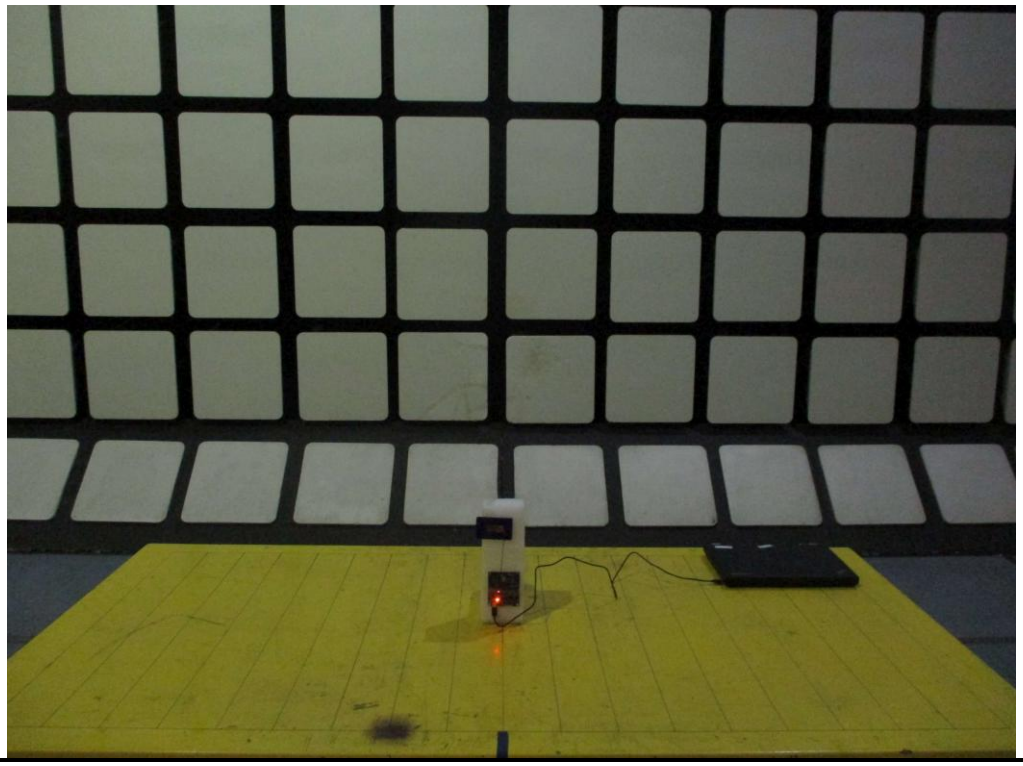
Spurious Emission below 30MHz Test (FlexMIMO 6E_EFD2471A3S-10MH4L)



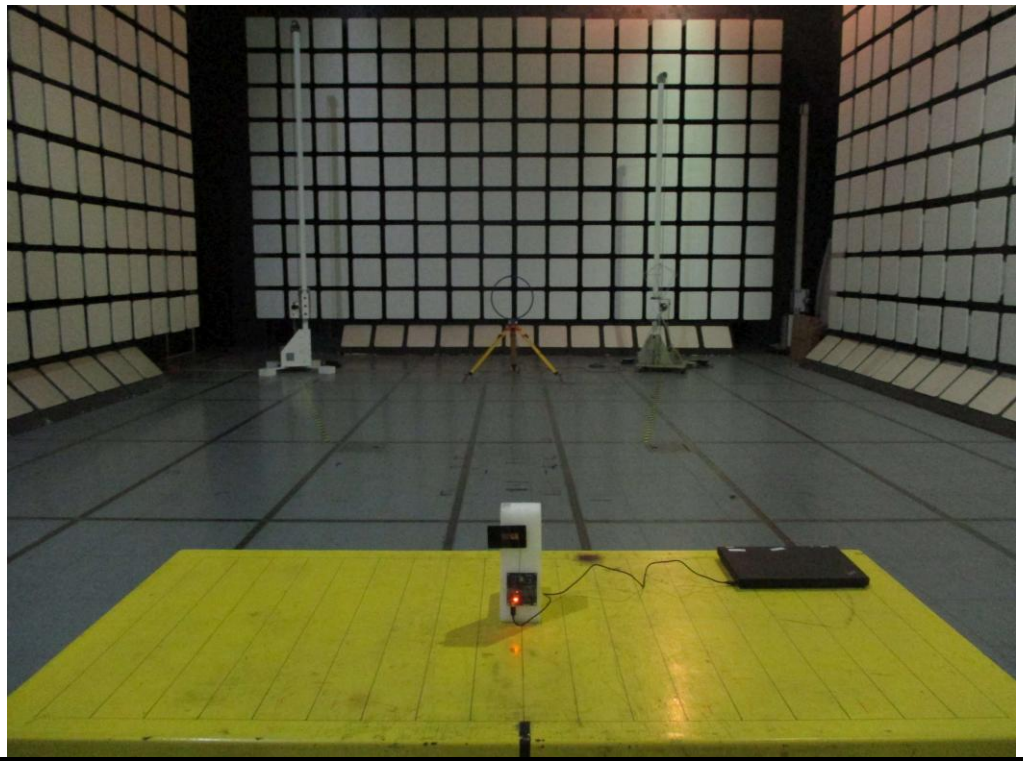


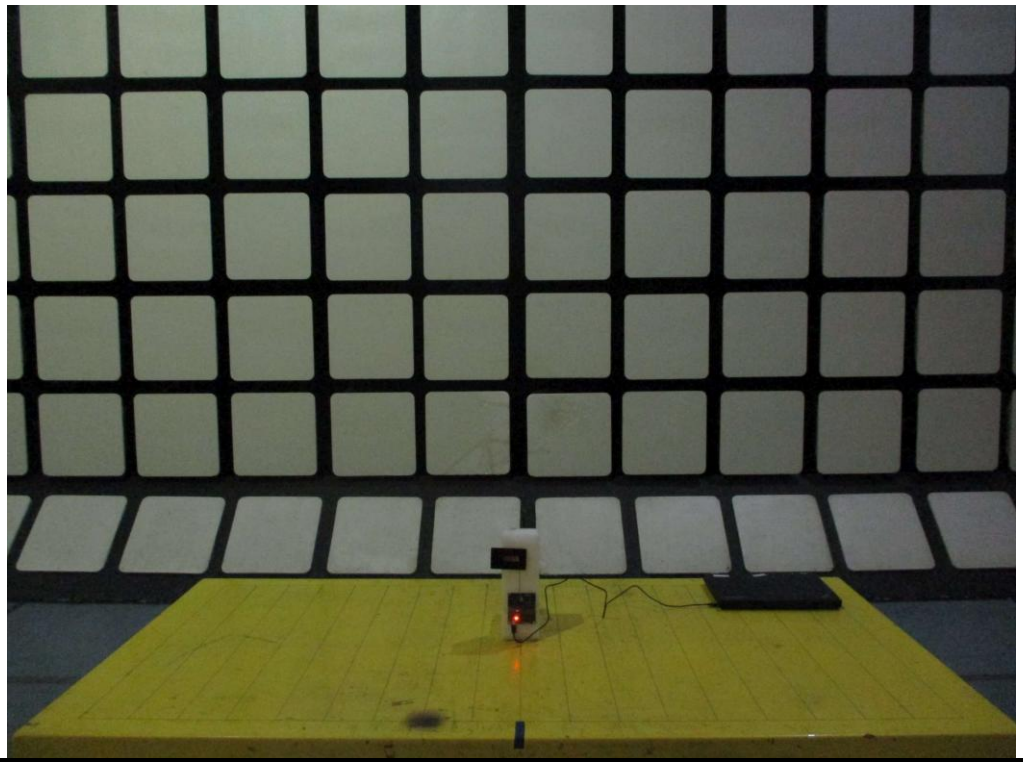
Spurious Emission below 30MHz Test (FlexPIFA 6E_EFB2471A3S-10MH4L)



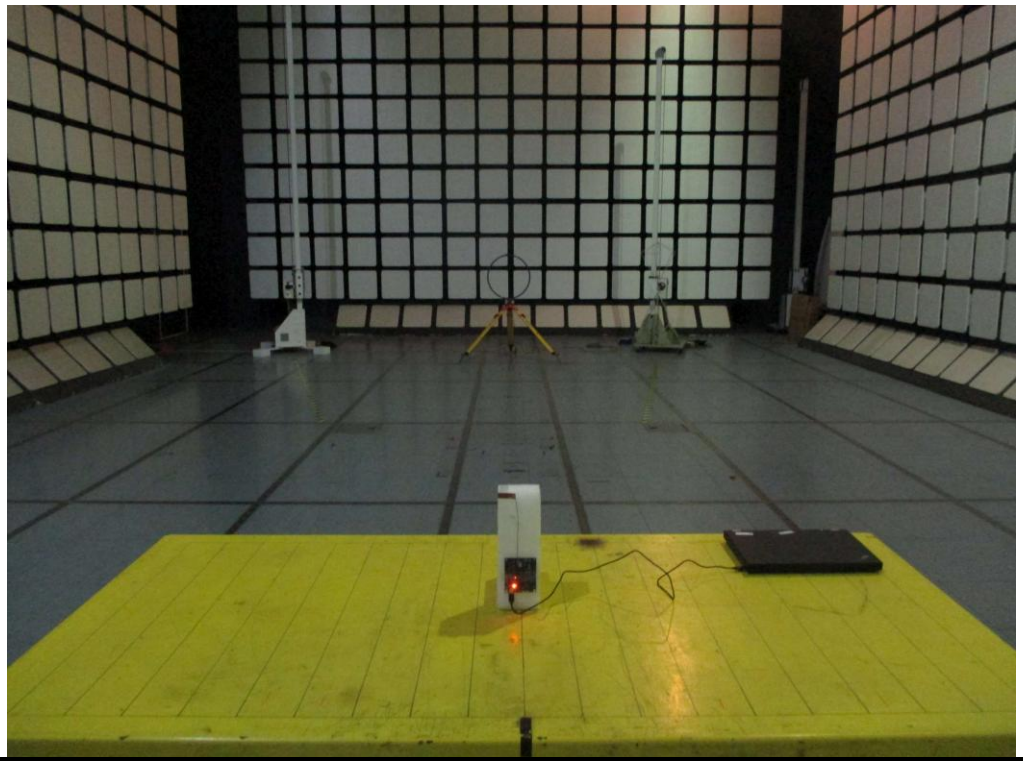


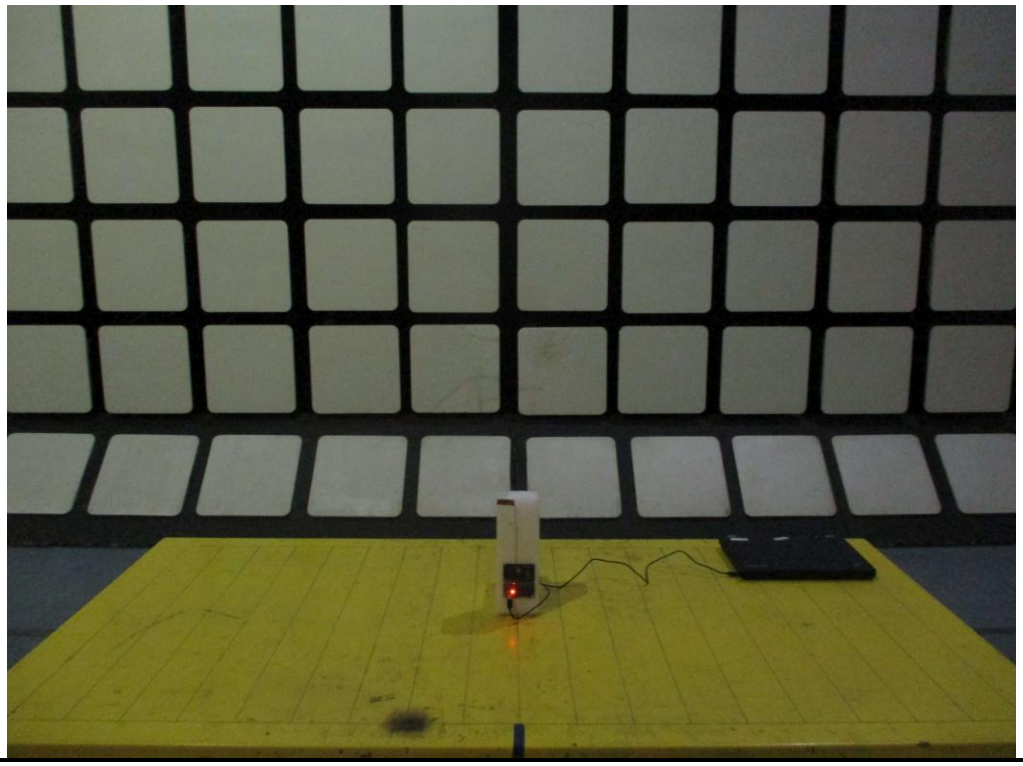
Spurious Emission below 30MHz Test (FlexPIFA Dual Band_001-0021)



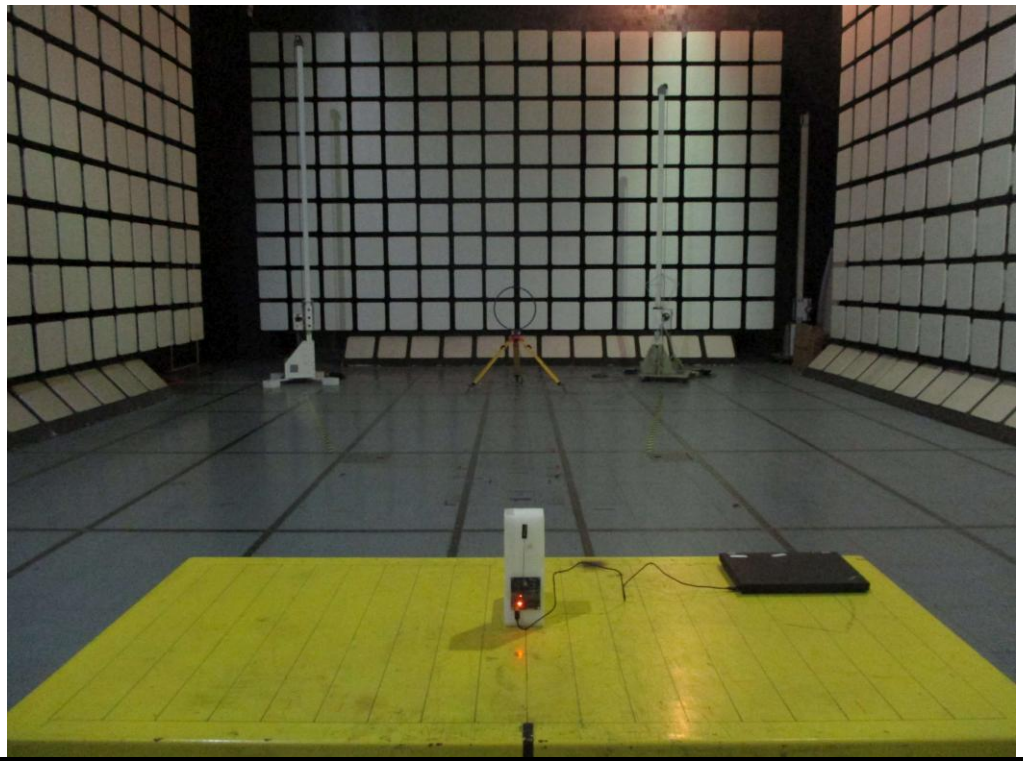


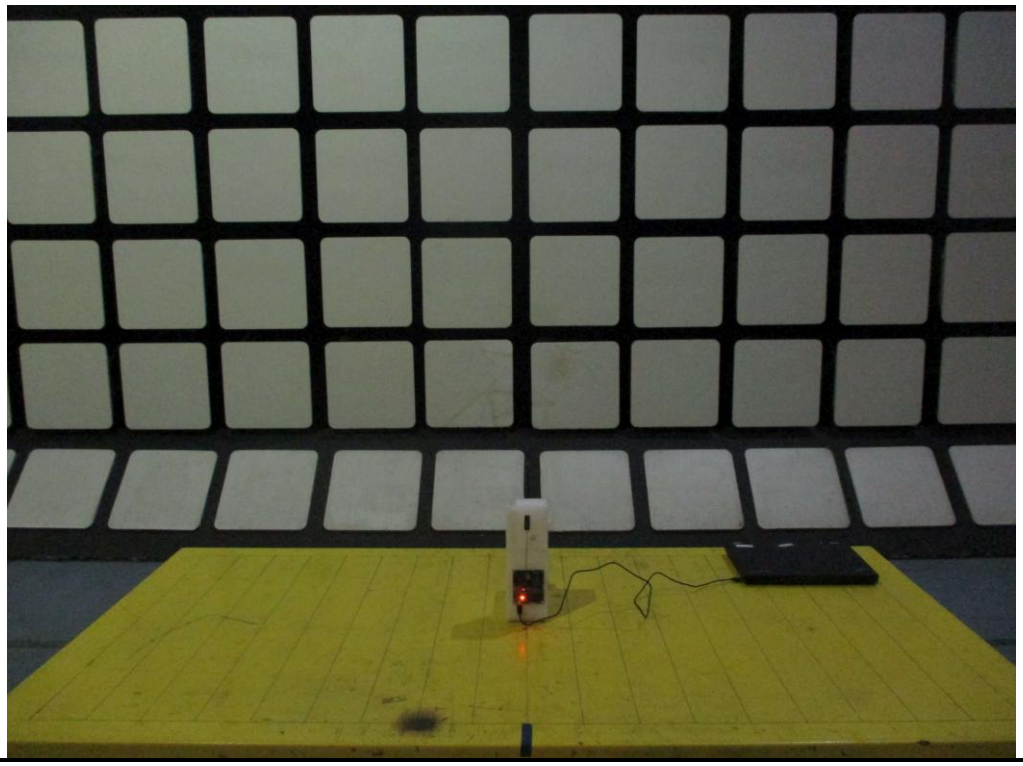
Spurious Emission below 30MHz Test (FlexPIFA Dual Band_EFB2455A3S-15MH4L)



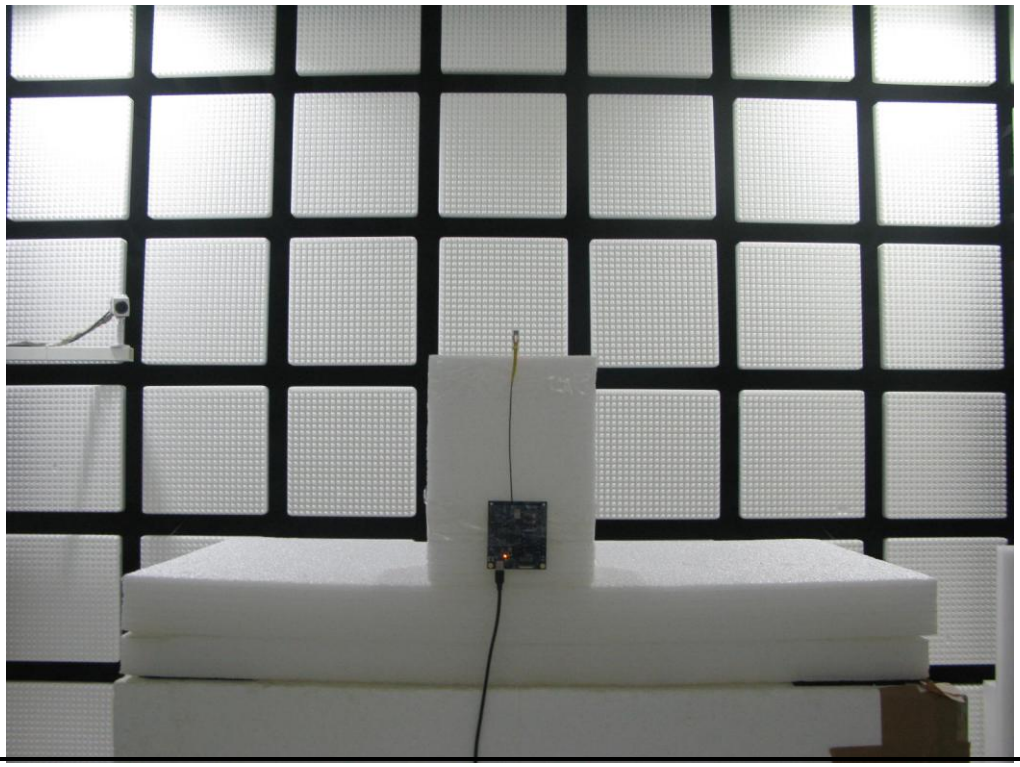


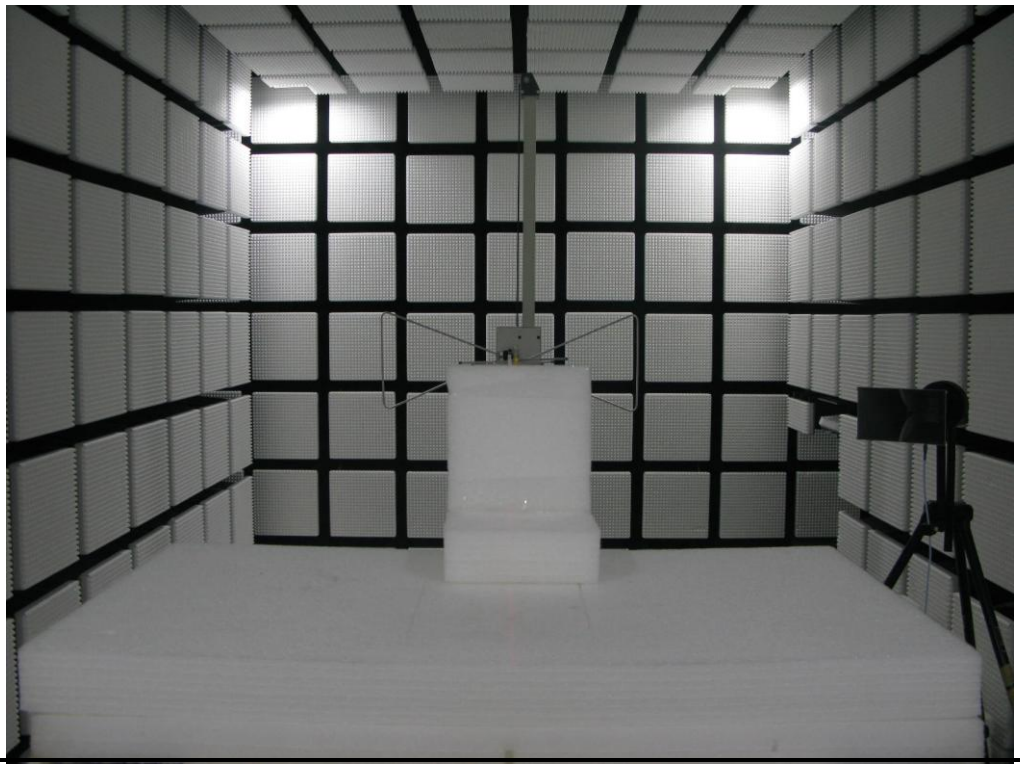
Spurious Emission below 30MHz Test (Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L)



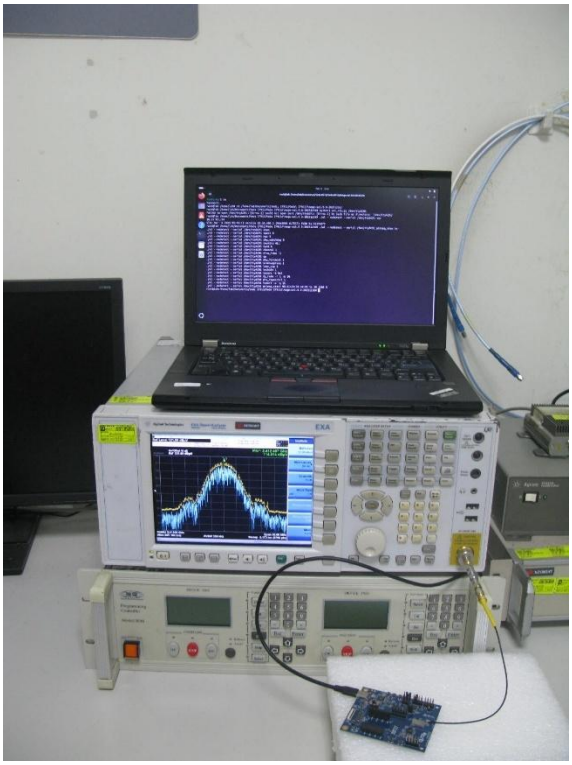


Spurious Emission above 30MHz Test (Radiated Test)

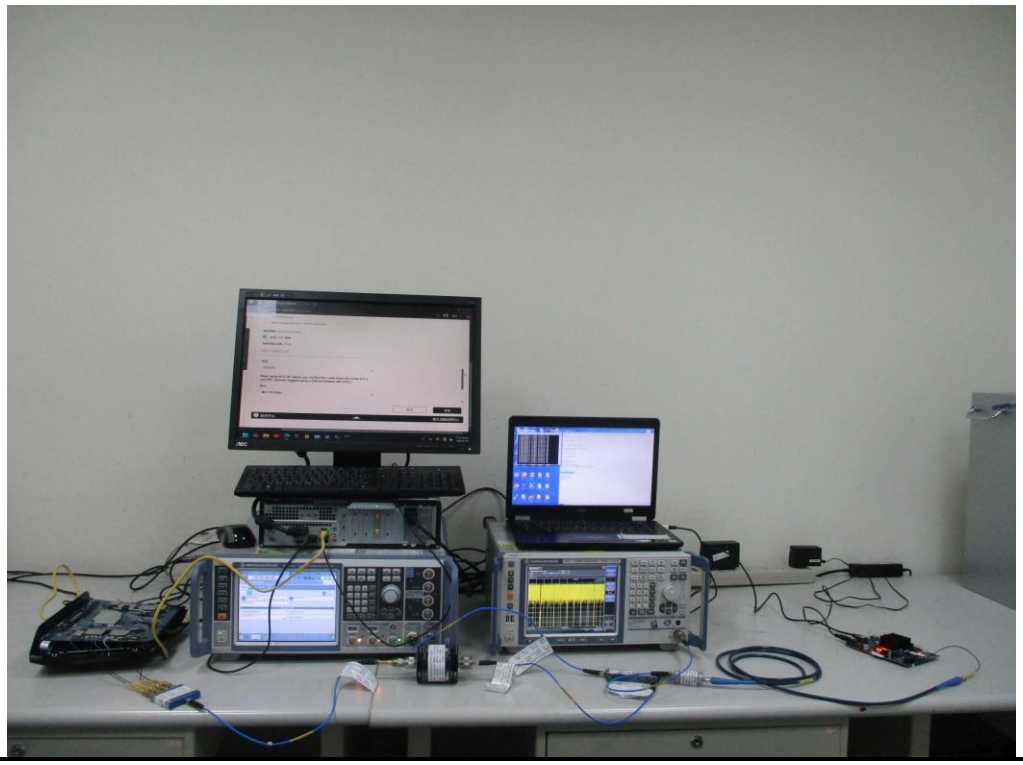




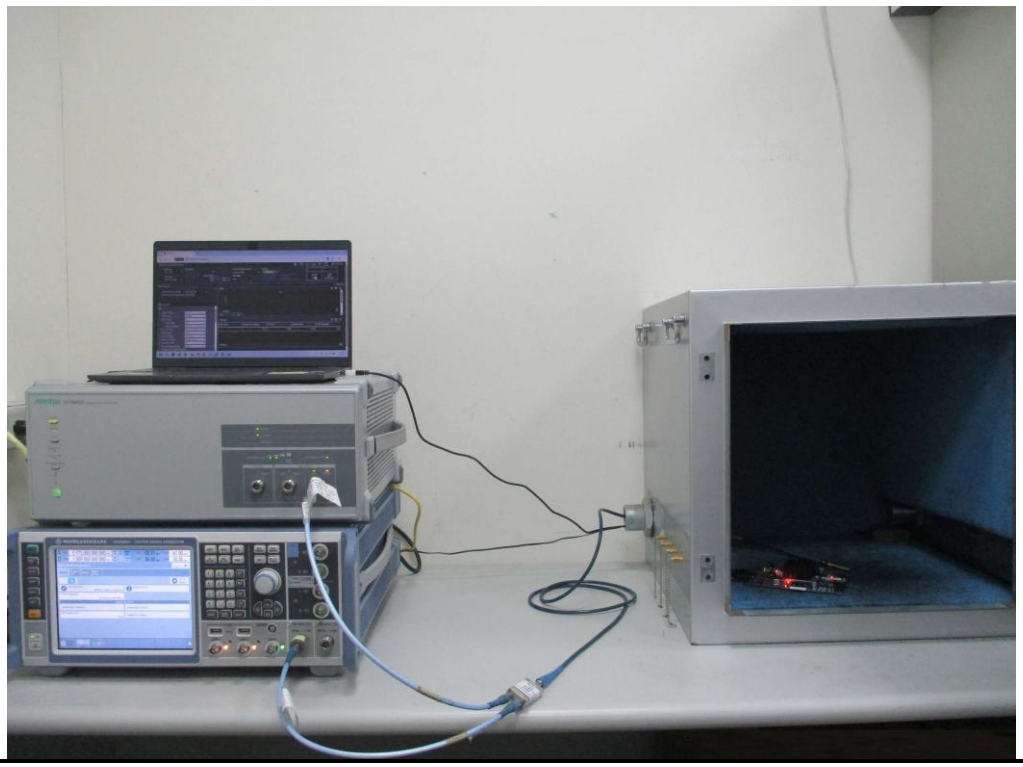
Spurious Emission above 30MHz Test (Conducted Test)



Channel Access Mechanism Test



Receiver Blocking Test / Receiver Selectivity Test



9 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website https://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

Zhonghe

Tel: 886-2-2222-0288

1F, No. 6, Jiankang Road, Zhonghe District, New Taipei City 235045, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
Fax: 886-3-318-0345
Email: ICC_Service@icertifi.com.tw

══END══

Summary

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port
5.945-6.425GHz	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	5.955G	5.954916391G	14.0401	20	1
802.11ax HEW20_OFDMA_Nss1,(MCS0)_1TX	Pass	5.955G	5.95491638G	14.042	20	1

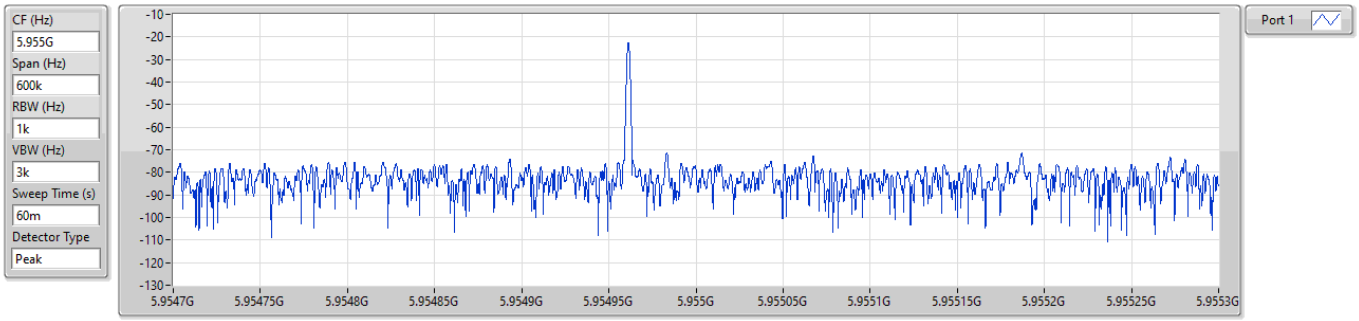
Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-
5955MHz_Tnom	Pass	5.955G	5.954961373G	6.4865	20	1
5955MHz_Tmin	Pass	5.955G	5.954916391G	14.0401	20	1
5955MHz_Tmax	Pass	5.955G	5.95505929G	9.9563	20	1
6415MHz_Tnom	Pass	6.415G	6.414958262G	6.5063	20	1
6415MHz_Tmin	Pass	6.415G	6.414910034G	14.0243	20	1
6415MHz_Tmax	Pass	6.415G	6.415064032G	9.9816	20	1
802.11ax HEW20_OFDMA_Nss1,(MCS0)_1TX	-	-	-	-	-	-
5955MHz_Tnom	Pass	5.955G	5.954961337G	6.4925	20	1
5955MHz_Tmin	Pass	5.955G	5.95491638G	14.042	20	1
5955MHz_Tmax	Pass	5.955G	5.95505927G	9.953	20	1
6415MHz_Tnom	Pass	6.415G	6.414958275G	6.5043	20	1
6415MHz_Tmin	Pass	6.415G	6.414910057G	14.0207	20	1
6415MHz_Tmax	Pass	6.415G	6.415064047G	9.9839	20	1

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

5955MHz_Tnom

11/03/2026

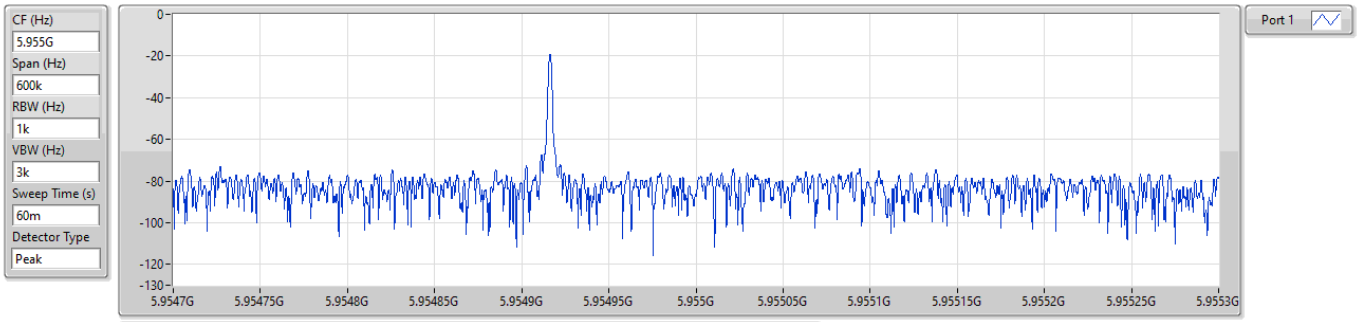


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.954961373G	-	-	6.4865	20	1	-

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

5955MHz_Tmin

11/03/2026

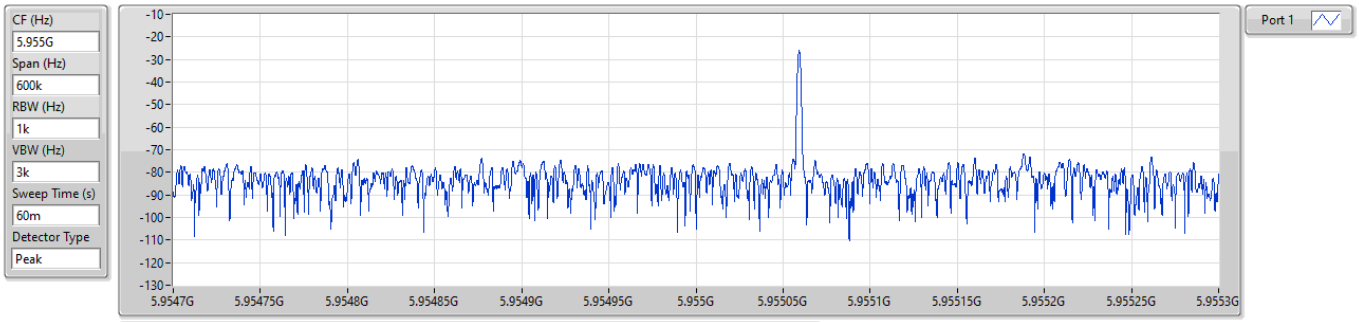


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.954916391G	-	-	14.0401	20	1	-

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

5955MHz_Tmax

11/03/2026

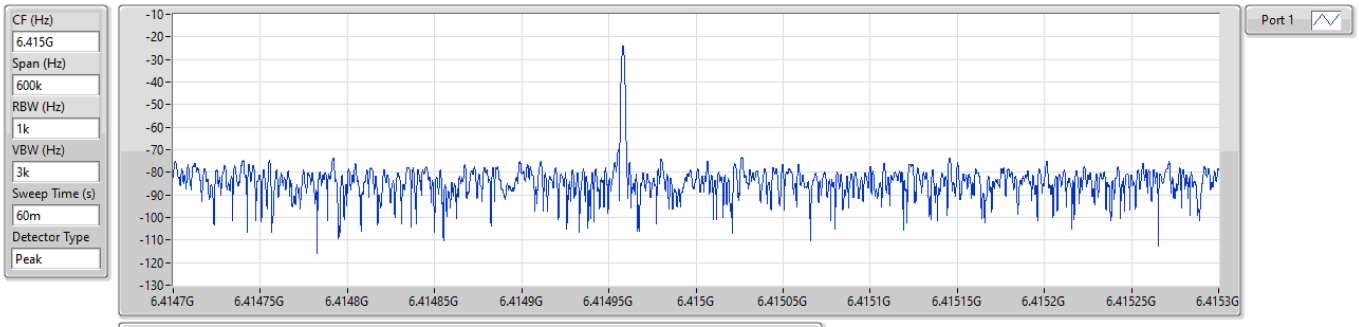


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.95505929G	-	-	9.9563	20	1	-

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

6415MHz_Tnom

11/03/2026

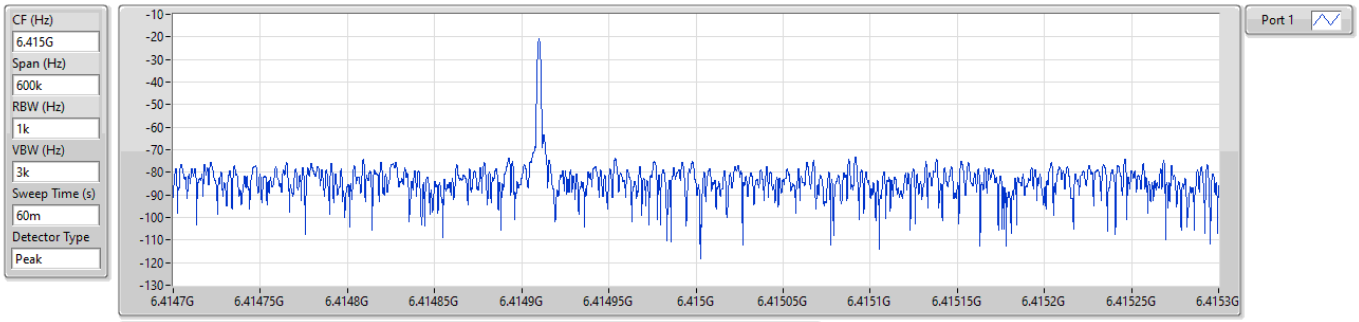


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.414958262G	-	-	6.5063	20	1	-

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

6415MHz_Tmin

11/03/2026

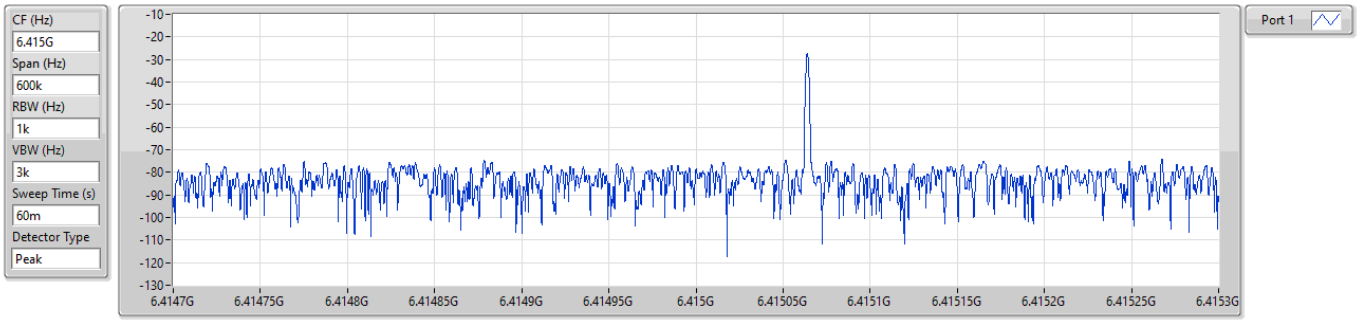


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.414910034G	-	-	14.0243	20	1	-

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **Freq. Stability**

6415MHz_Tmax

11/03/2026

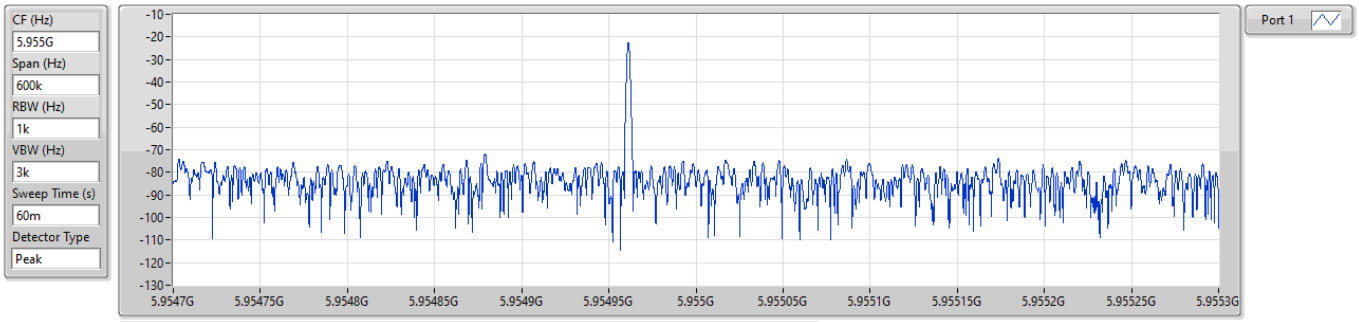


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.415064032G	-	-	9.9816	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

5955MHz_Tnom

11/03/2026

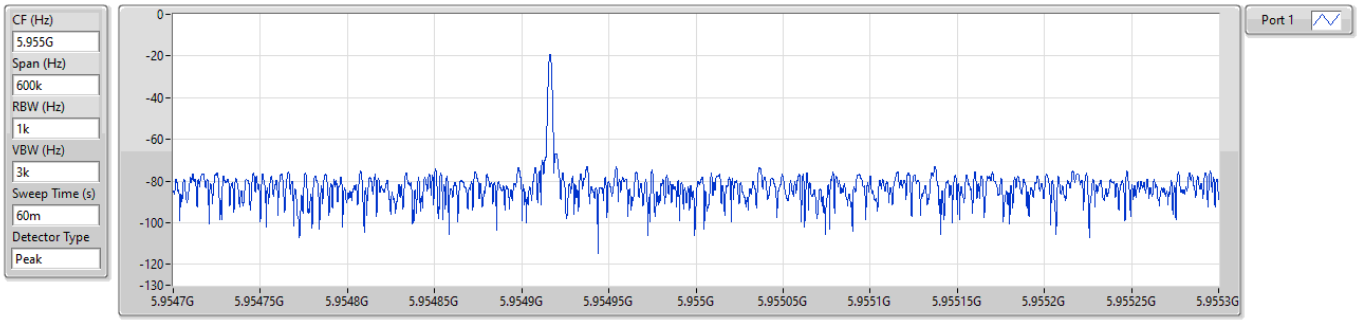


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.954961337G	-	-	6.4925	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

5955MHz_Tmin

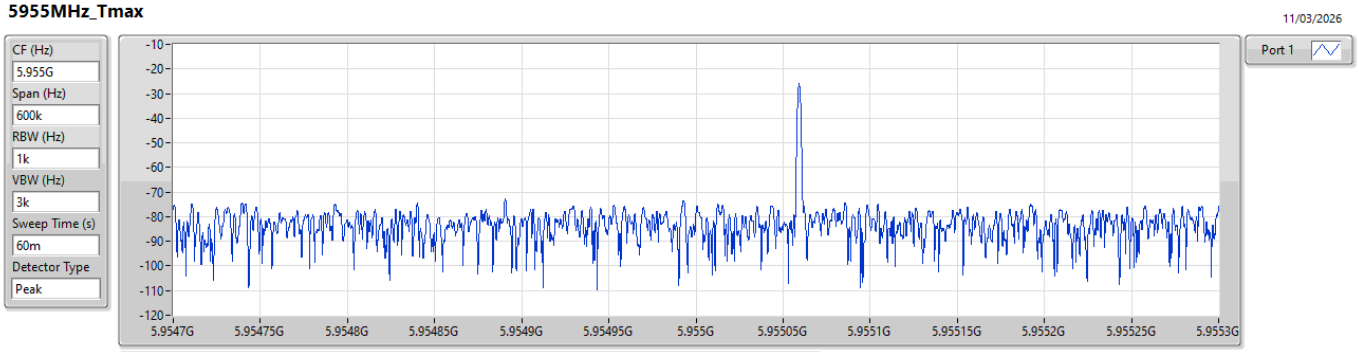
11/03/2026



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.95491638G	-	-	14.042	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

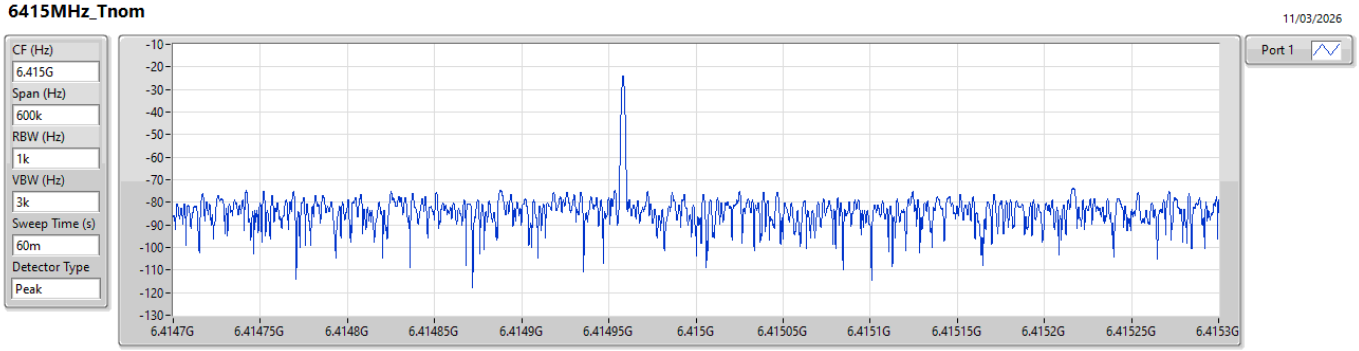
5955MHz_Tmax



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
5.955G	5.95505927G	-	-	9.953	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

6415MHz_Tnom

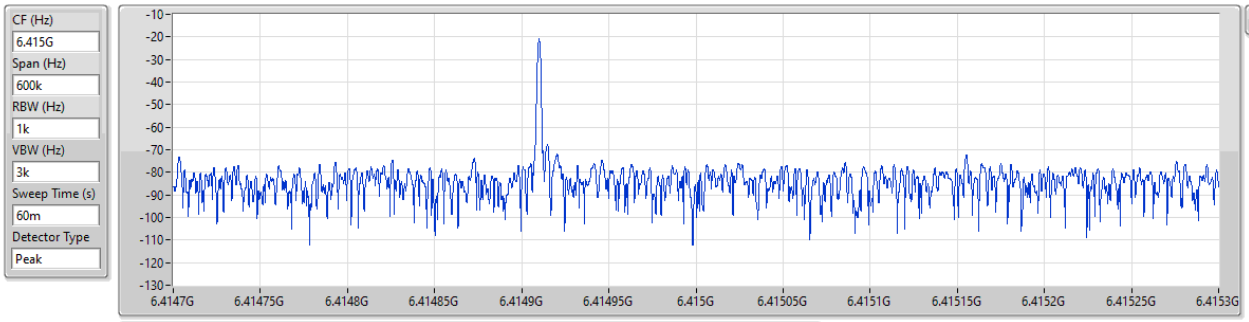


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.414958275G	-	-	6.5043	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

6415MHz_Tmin

11/03/2026

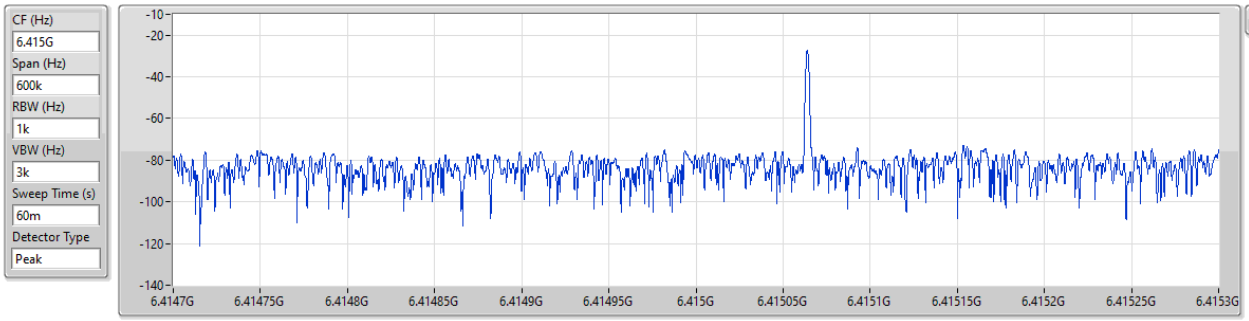


Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.414910057G	-	-	14.0207	20	1	-

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **Freq. Stability**

6415MHz_Tmax

11/03/2026



Ch(Hz)	Center(Hz)	Fl(Hz)	Fh(Hz)	ppm	Limit(ppm)	Port	Remark
6.415G	6.415064047G	-	-	9.9839	20	1	-

Summary

Mode	OBW (Hz)	ITU-Code
5.945-6.425GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	16.442M	16M4D1D
802.11ax HEW20_Nss1,(MCS0)_1TX	18.958M	19M0D1D

OBW = 99% occupied bandwidth

Result

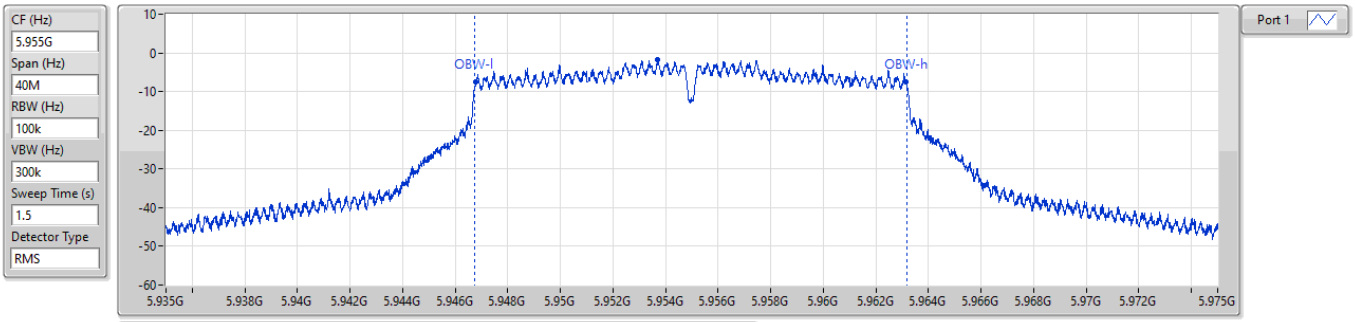
Mode	Result	Limit (Hz)	fl-OBW (Hz)	fh-OBW (Hz)	OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	0~20M	5.946758G	5.963201G	16.442M
6415MHz_Tnom	Pass	0~20M	6.406761G	6.423186G	16.426M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	0~20M	5.945488G	5.964446G	18.958M
6415MHz_Tnom	Pass	0~20M	6.405495G	6.424441G	18.946M

fl-OBW = fl lower edge 99% occupied bandwidth; fh-OBW = fh higher edge 99% occupied bandwidth; OBW = 99% occupied bandwidth;
N dB = 6dB down bandwidth

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5955MHz

31/01/2026

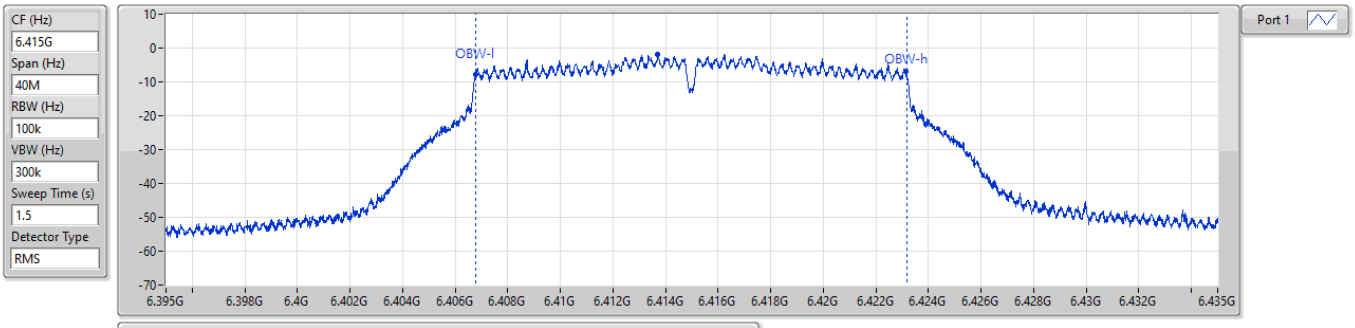


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.37M	5.94679G	5.96316G	16.442M	5.946758G	5.963201G	0~20M	1

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

6415MHz

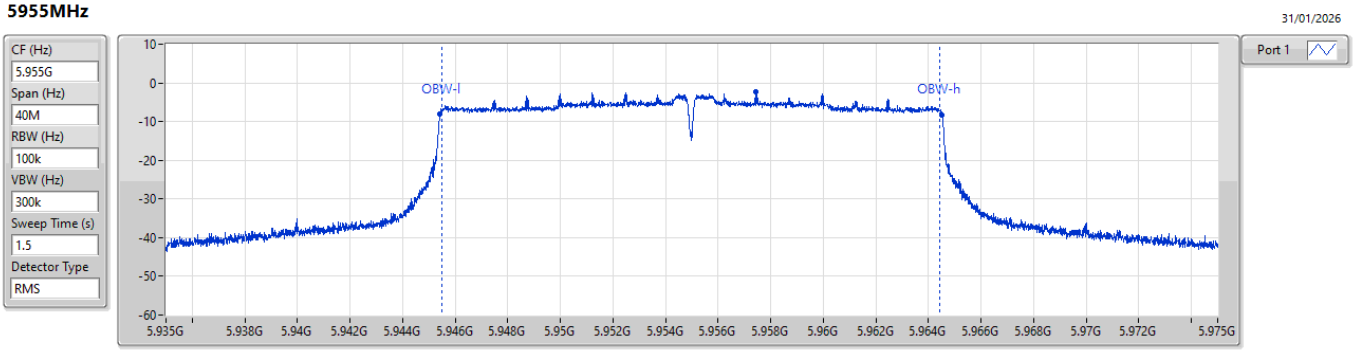
31/01/2026



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.37M	6.40676G	6.42313G	16.426M	6.406761G	6.423186G	0~20M	1

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

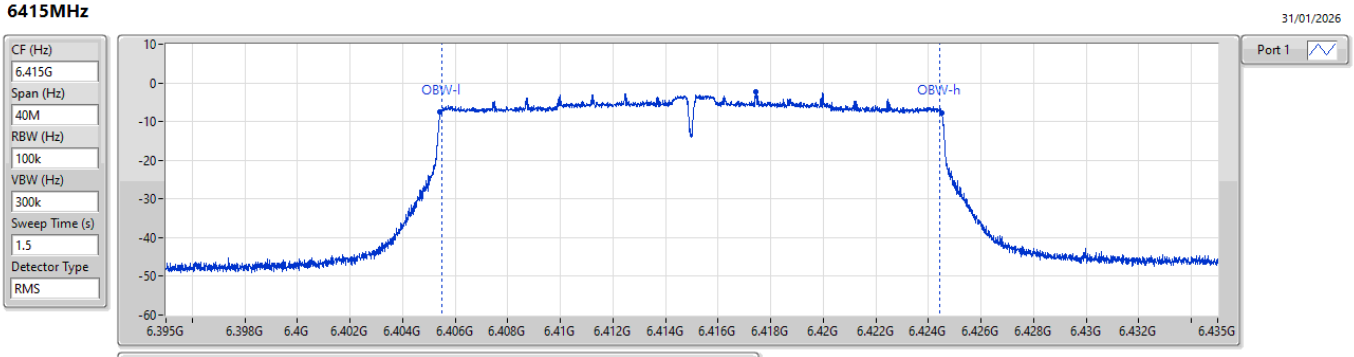
5955MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.08M	5.94543G	5.96451G	18.958M	5.945488G	5.964446G	0~20M	1

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **EBW**

6415MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.07M	6.40543G	6.4245G	18.946M	6.405495G	6.424441G	0~20M	1

full RU configuration

RF Output Power

EIRP (dBm)				
Condition	Freq. (MHz)	11a	Limit (dBm)	Results
TnomVnom	5955	20.01	23	Pass
TminVnom	5955	19.16	23	Pass
TmaxVnom	5955	19.73	23	Pass
TnomVnom	6415	20.02	23	Pass
TminVnom	6415	19.31	23	Pass
TmaxVnom	6415	19.64	23	Pass

EIRP (dBm)				
Condition	Freq. (MHz)	ax HE20-OFDMA	Limit (dBm)	Results
TnomVnom	5955	20.68	23	Pass
TminVnom	5955	20.43	23	Pass
TmaxVnom	5955	20.29	23	Pass
TnomVnom	6415	20.76	23	Pass
TminVnom	6415	20.57	23	Pass
TmaxVnom	6415	20.21	23	Pass

partial RU configuration

EIRP (dBm)						
Condition	Freq. (MHz)	HE20_OFDMA RU26	HE20_OFDMA RU52	HE20_OFDMA RU106	Limit (dBm)	Results
TnomVnom	5955	13.03	15.62	18.54	23	Pass
TminVnom	5955	12.56	15.58	18.20	23	Pass
TmaxVnom	5955	12.25	15.52	18.09	23	Pass
TnomVnom	6415	12.84	15.81	18.69	23	Pass
TminVnom	6415	12.44	15.30	17.97	23	Pass
TmaxVnom	6415	12.37	15.53	17.99	23	Pass

full RU configuration

Summary

Mode	EIRP PD (dBm/MHz)
5.945-6.425GHz	-
802.11a_Nss1,(6Mbps)_1TX	9.77
802.11ax HEW20_Nss1,(MCS0)_1TX	9.84

RBW=1MHz

Result

Mode	Result	Gain (dBi)	PD (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	5.20	4.57	9.77	10.00
6415MHz_Tnom	Pass	5.20	4.52	9.72	10.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	5.20	4.64	9.84	10.00
6415MHz_Tnom	Pass	5.20	4.59	9.79	10.00

RBW=1MHz;

partial RU configuration

Summary

Mode	EIRP PD (dBm/MHz)
5.945-6.425GHz	-
802.11ax HEW20 OFDMA RU106 Index53_Nss1,(MCS0)_1TX	9.97
802.11ax HEW20 OFDMA RU26 Index3_Nss1,(MCS0)_1TX	9.96
802.11ax HEW20 OFDMA RU52 Index38_Nss1,(MCS0)_1TX	9.87

RBW=1MHz

Result

Mode	Result	Gain (dBi)	PD (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
802.11ax HEW20 OFDMA RU26 Index3_Nss1,(MCS0)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	5.20	4.76	9.96	10.00
6415MHz_Tnom	Pass	5.20	4.60	9.80	10.00
802.11ax HEW20 OFDMA RU52 Index38_Nss1,(MCS0)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	5.20	4.50	9.70	10.00
6415MHz_Tnom	Pass	5.20	4.67	9.87	10.00
802.11ax HEW20 OFDMA RU106 Index53_Nss1,(MCS0)_1TX	-	-	-	-	-
5955MHz_Tnom	Pass	5.20	4.61	9.81	10.00
6415MHz_Tnom	Pass	5.20	4.77	9.97	10.00

RBW=1MHz;

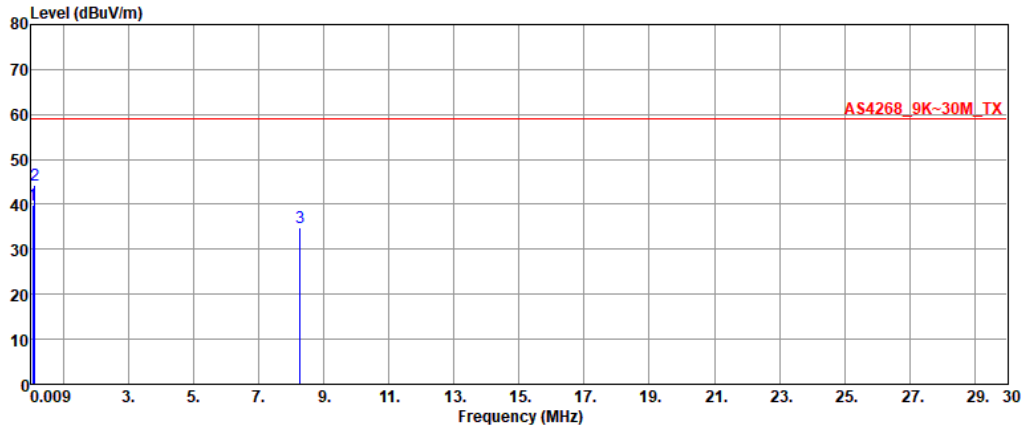
full RU configuration

Configuration 1: Chip Antenna_ANT1608LL14R2460A

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

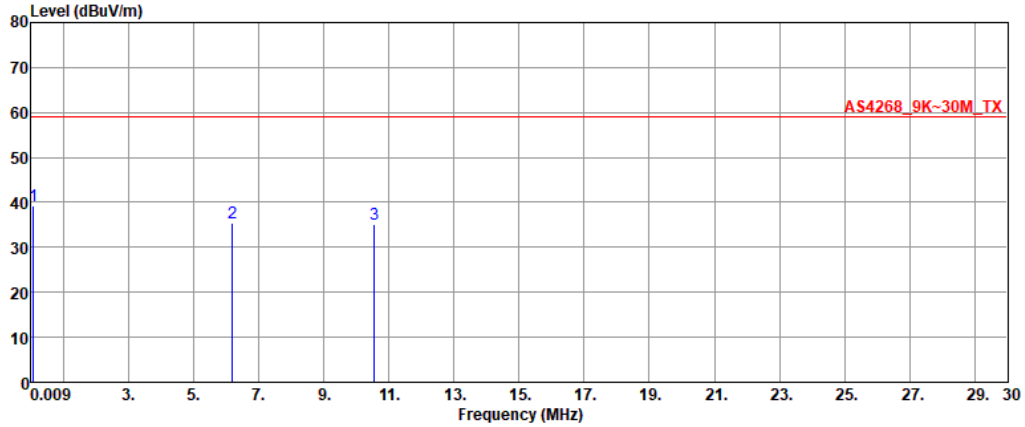


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.79	59.00	-19.21	18.86	20.93
2	0.12	44.31	59.00	-14.69	18.84	25.47
3	8.27	34.94	59.00	-24.06	20.48	14.46

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

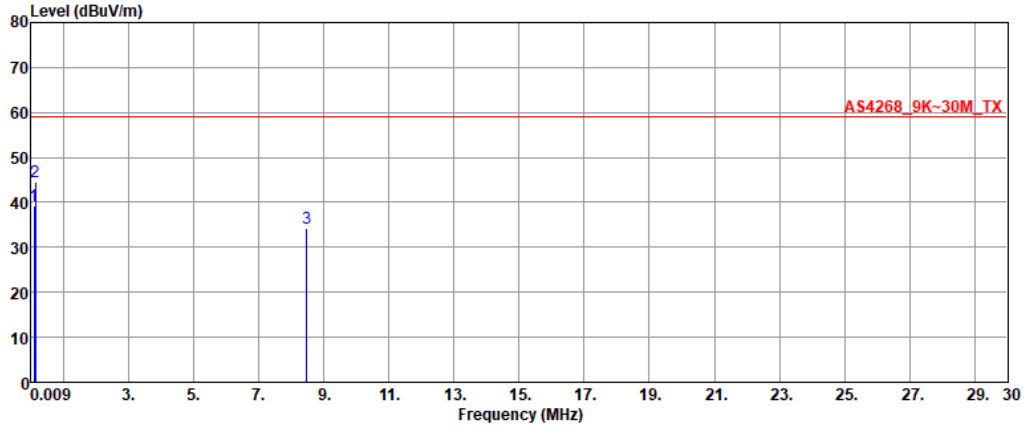


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.08	39.39	59.00	-19.61	18.78	20.61
2	6.19	35.49	59.00	-23.51	21.00	14.49
3	10.54	35.23	59.00	-23.77	21.17	14.06

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

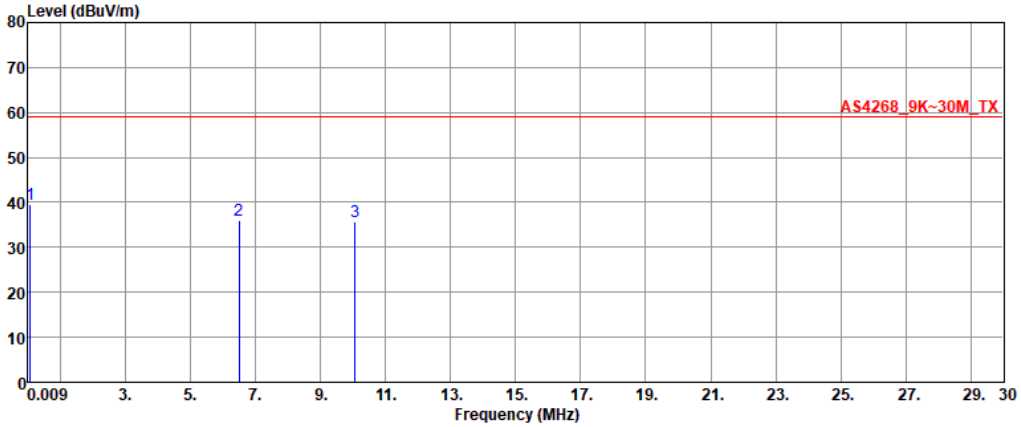


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.10	39.27	59.00	-19.73	18.78	20.49
2	0.14	44.56	59.00	-14.44	19.04	25.52
3	8.47	34.13	59.00	-24.87	20.48	13.65

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.07	39.53	59.00	-19.47	18.97	20.56
2	6.49	35.87	59.00	-23.13	20.91	14.96
3	10.07	35.83	59.00	-23.17	21.01	14.82

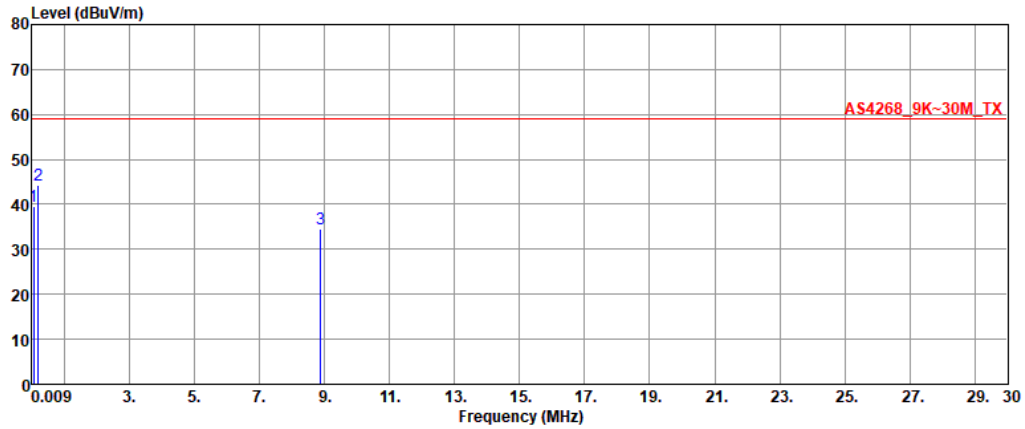
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 2: Dipole 6E_TWX-100BRS3B

Emissions (≤ 30MHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

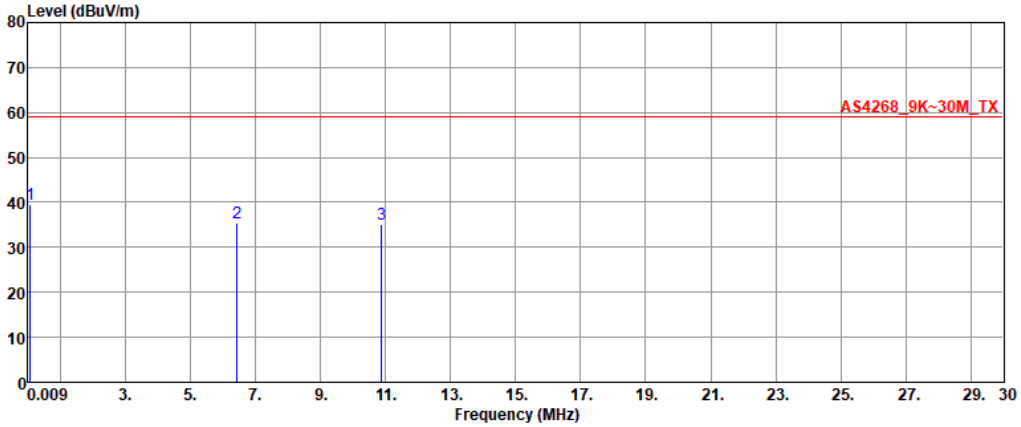


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.43	59.00	-19.57	19.90	19.53
2	0.19	44.23	59.00	-14.77	19.40	24.83
3	8.87	34.65	59.00	-24.35	20.48	14.17

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

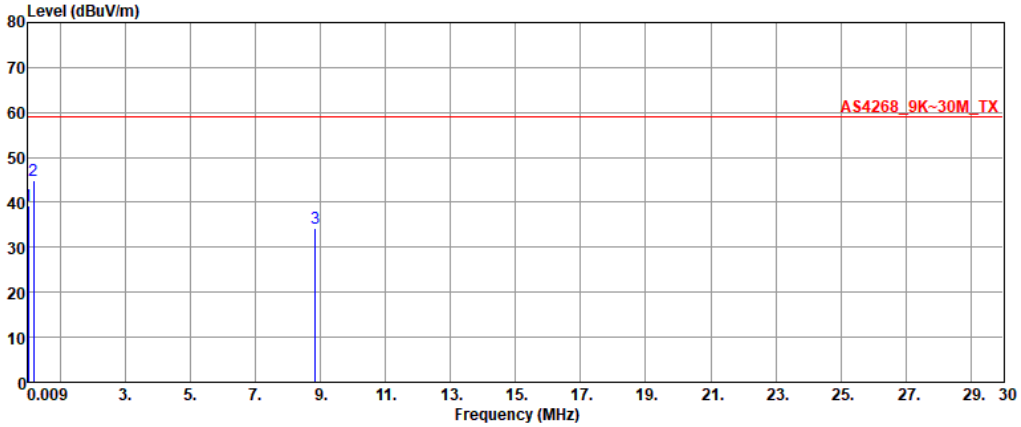


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.07	39.61	59.00	-19.39	19.02	20.59
2	6.43	35.31	59.00	-23.69	20.93	14.38
3	10.87	35.01	59.00	-23.99	21.26	13.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

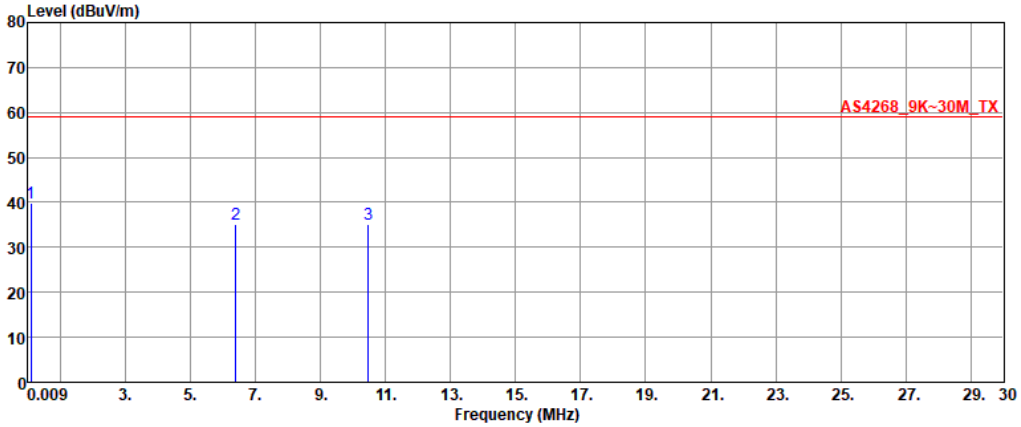


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.12	59.00	-19.88	19.42	19.70
2	0.17	44.79	59.00	-14.21	19.24	25.55
3	8.83	34.23	59.00	-24.77	20.48	13.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.78	59.00	-19.22	18.92	20.86
2	6.38	35.16	59.00	-23.84	20.94	14.22
3	10.47	35.08	59.00	-23.92	21.14	13.94

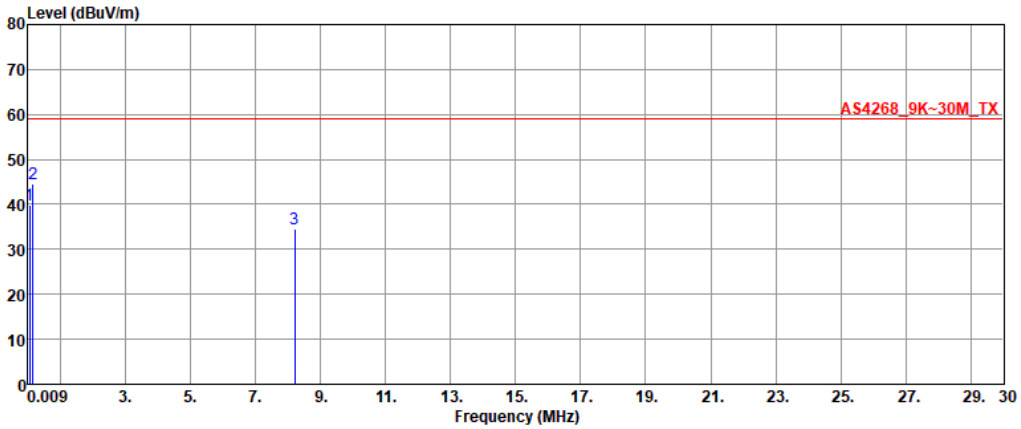
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 3: FlexMIMO 6E_EFD2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

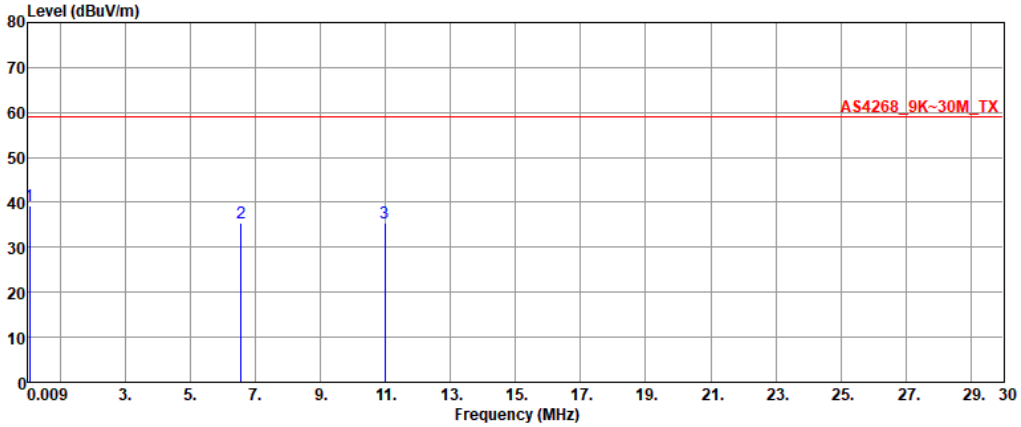


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.91	59.00	-19.09	19.90	20.01
2	0.15	44.65	59.00	-14.35	19.11	25.54
3	8.21	34.61	59.00	-24.39	20.48	14.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

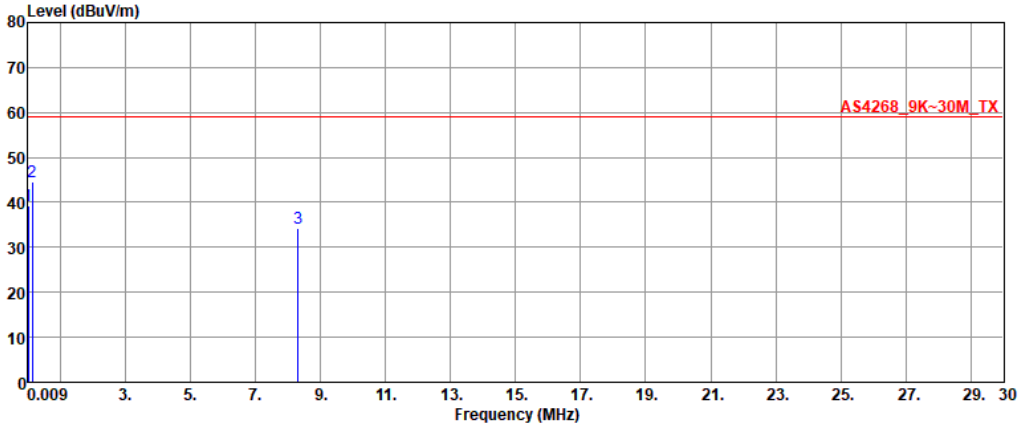


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.23	59.00	-19.77	19.87	19.36
2	6.56	35.29	59.00	-23.71	20.89	14.40
3	10.99	35.31	59.00	-23.69	21.31	14.00

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

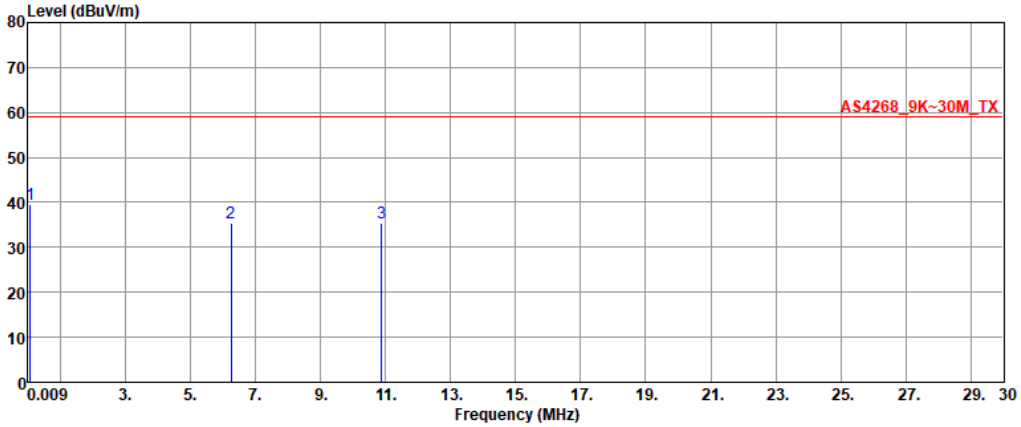


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.23	59.00	-19.77	19.56	19.67
2	0.13	44.48	59.00	-14.52	18.96	25.52
3	8.31	34.20	59.00	-24.80	20.48	13.72

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.07	39.60	59.00	-19.40	18.96	20.64
2	6.26	35.53	59.00	-23.47	20.98	14.55
3	10.88	35.39	59.00	-23.61	21.26	14.13

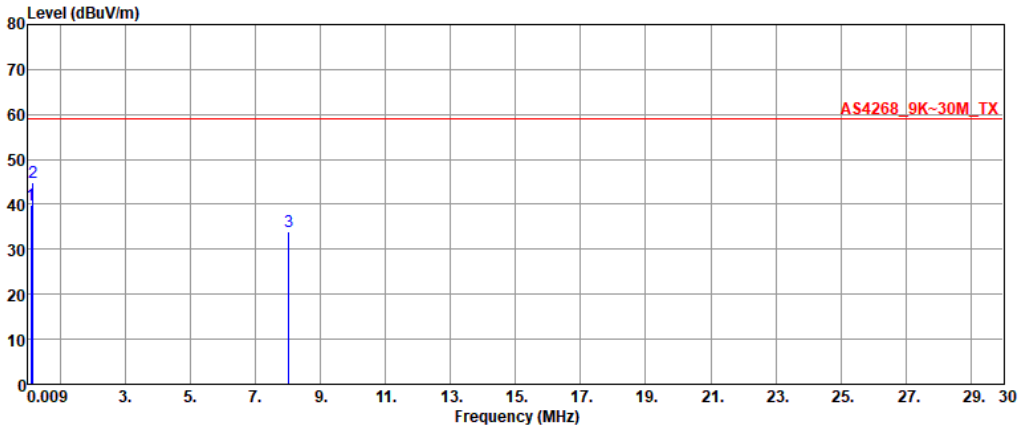
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 4: FlexPIFA 6E_EFB2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

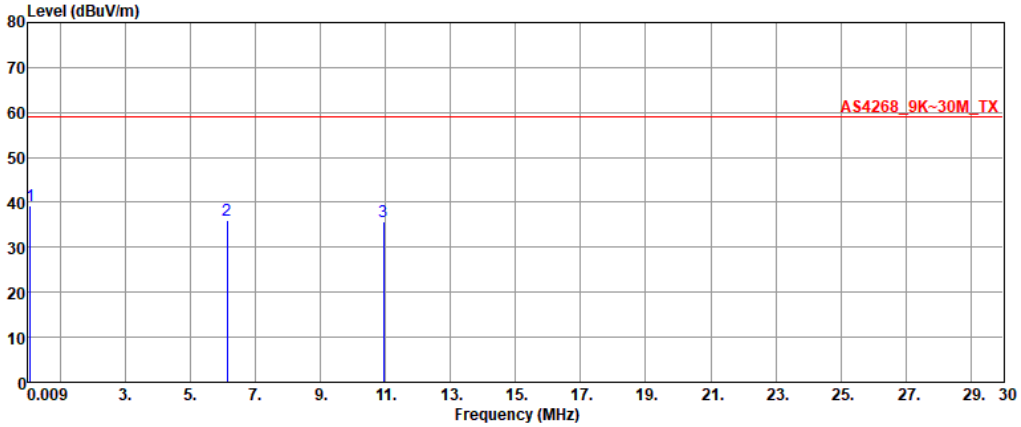


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.87	59.00	-19.13	18.91	20.96
2	0.16	44.83	59.00	-14.17	19.17	25.66
3	8.02	34.08	59.00	-24.92	20.48	13.60

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

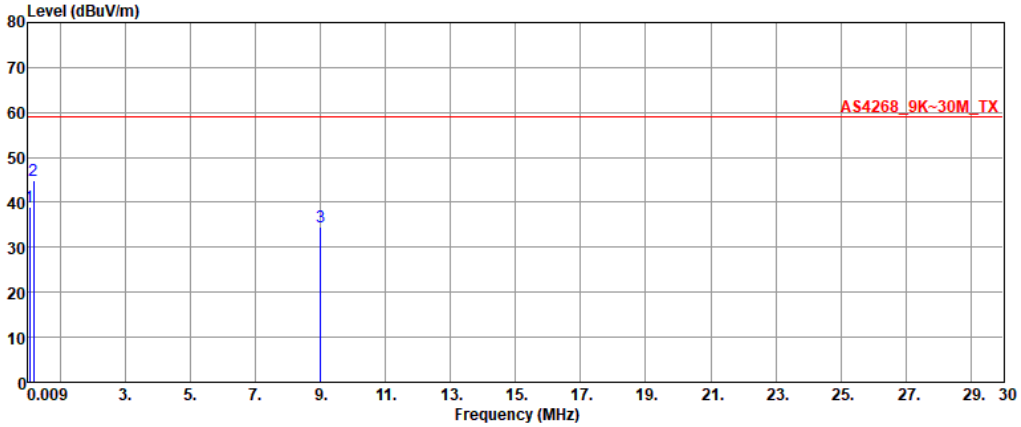


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.17	59.00	-19.83	18.94	20.23
2	6.12	35.94	59.00	-23.06	21.02	14.92
3	10.93	35.61	59.00	-23.39	21.29	14.32

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

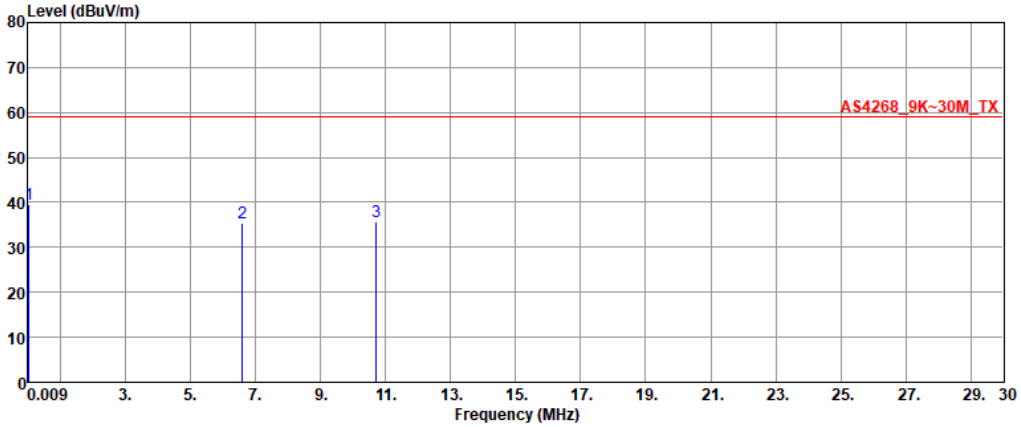


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.10	59.00	-19.90	18.86	20.24
2	0.17	44.77	59.00	-14.23	19.30	25.47
3	8.99	34.68	59.00	-24.32	20.48	14.20

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.03	39.47	59.00	-19.53	19.83	19.64
2	6.59	35.42	59.00	-23.58	20.88	14.54
3	10.72	35.62	59.00	-23.38	21.22	14.40

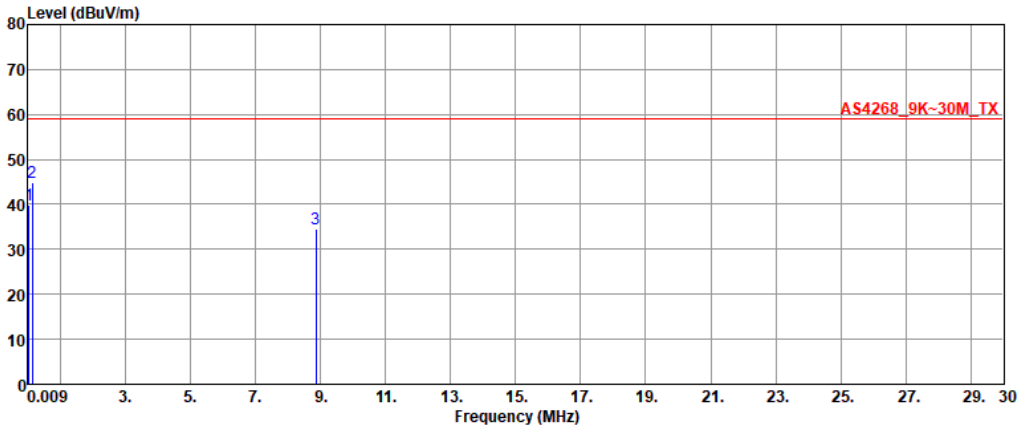
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 5: FlexPIFA Dual Band_001-0021

Emissions (≤ 30MHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

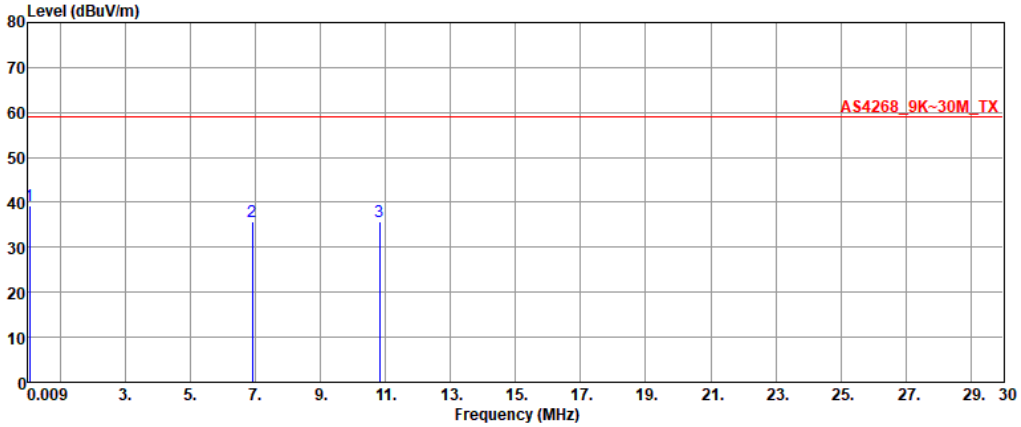


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.74	59.00	-19.26	19.88	19.86
2	0.13	44.77	59.00	-14.23	18.94	25.83
3	8.86	34.56	59.00	-24.44	20.48	14.08

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

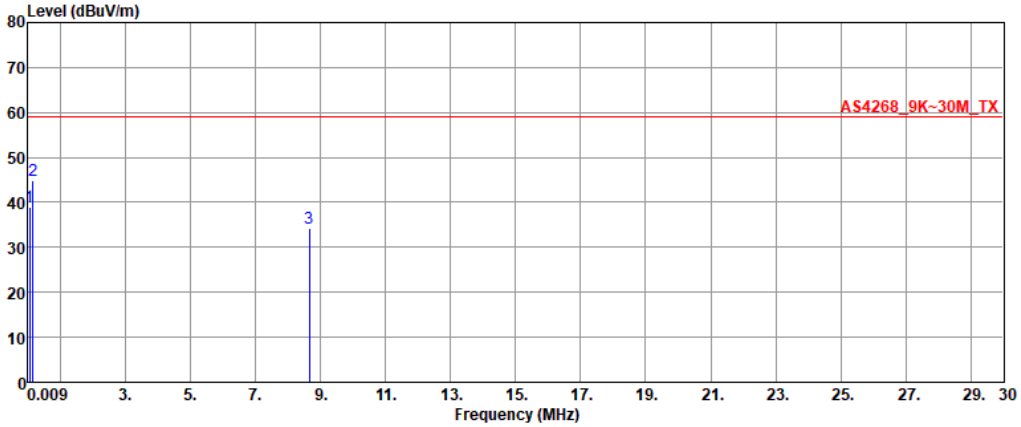


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.21	59.00	-19.79	19.05	20.16
2	6.91	35.74	59.00	-23.26	20.80	14.94
3	10.82	35.86	59.00	-23.14	21.25	14.61

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

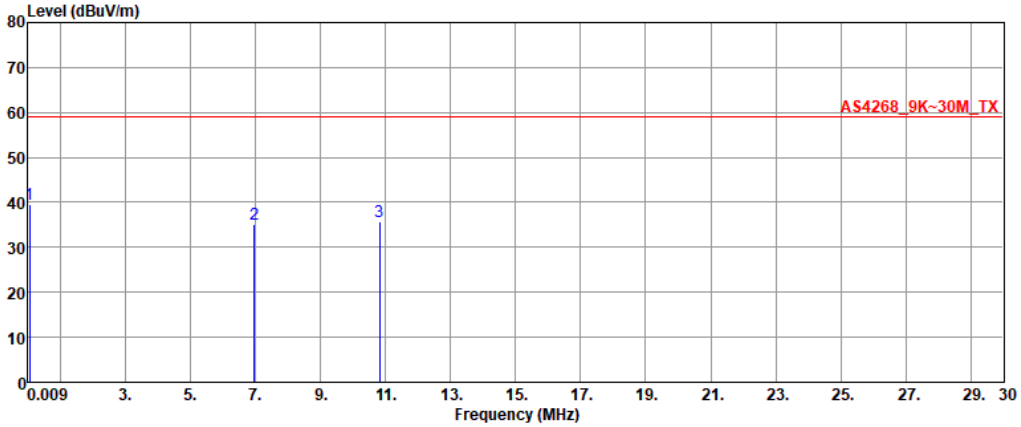


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.03	59.00	-19.97	19.93	19.10
2	0.15	44.92	59.00	-14.08	19.14	25.78
3	8.66	34.16	59.00	-24.84	20.48	13.68

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.67	59.00	-19.33	19.19	20.48
2	6.97	35.19	59.00	-23.81	20.78	14.41
3	10.82	35.87	59.00	-23.13	21.25	14.62

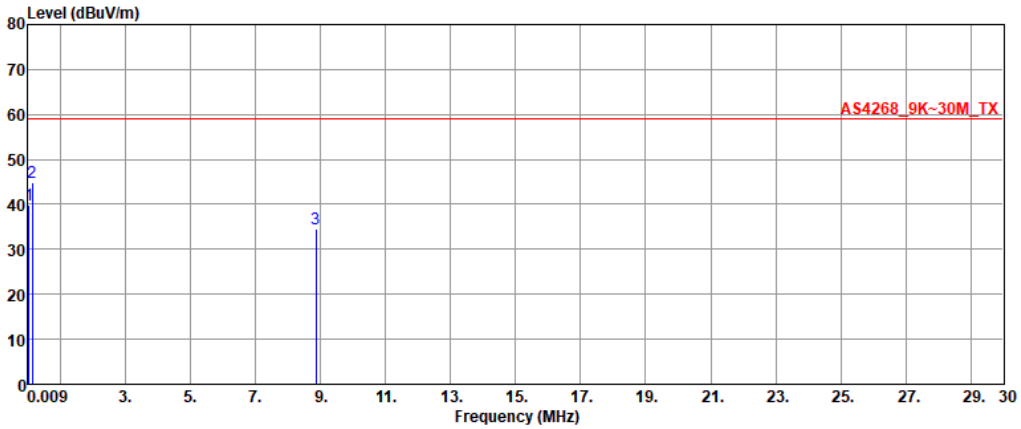
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 6: FlexPIFA Dual Band_EFB2455A3S-15MH4L

Emissions (≤ 30MHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

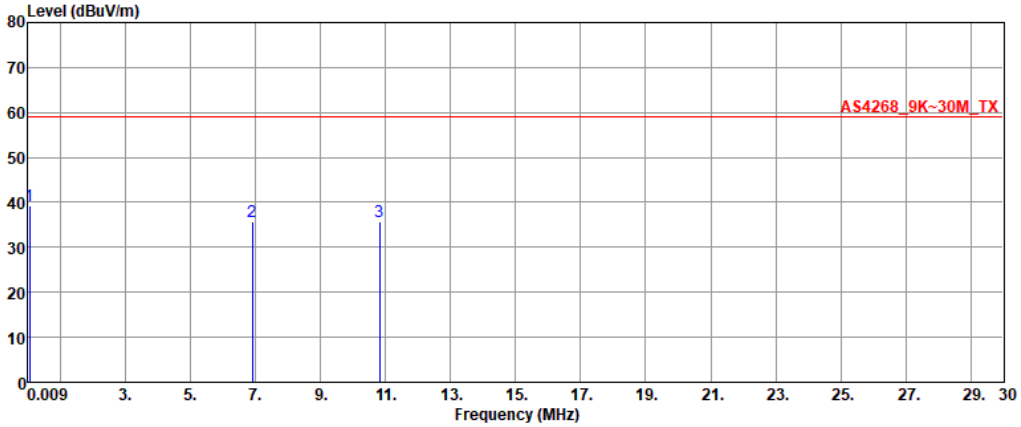


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.74	59.00	-19.26	19.88	19.86
2	0.13	44.77	59.00	-14.23	18.94	25.83
3	8.86	34.56	59.00	-24.44	20.48	14.08

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

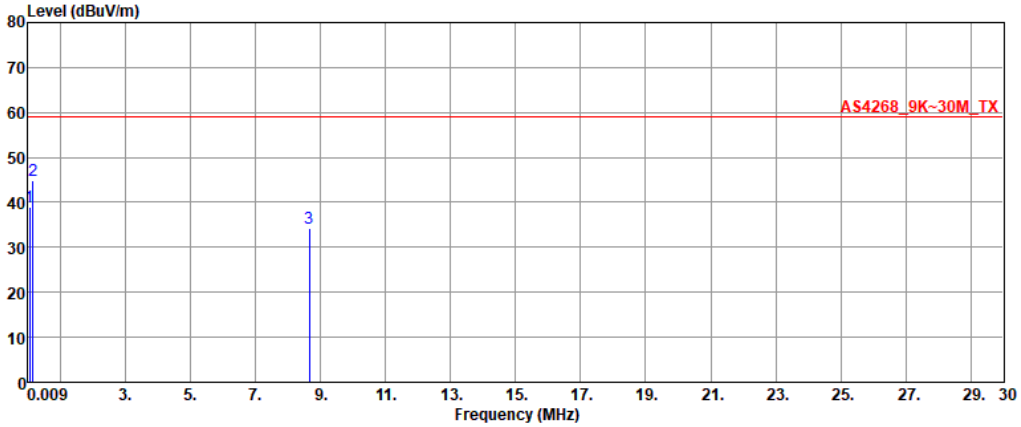


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.21	59.00	-19.79	19.05	20.16
2	6.91	35.74	59.00	-23.26	20.80	14.94
3	10.82	35.86	59.00	-23.14	21.25	14.61

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

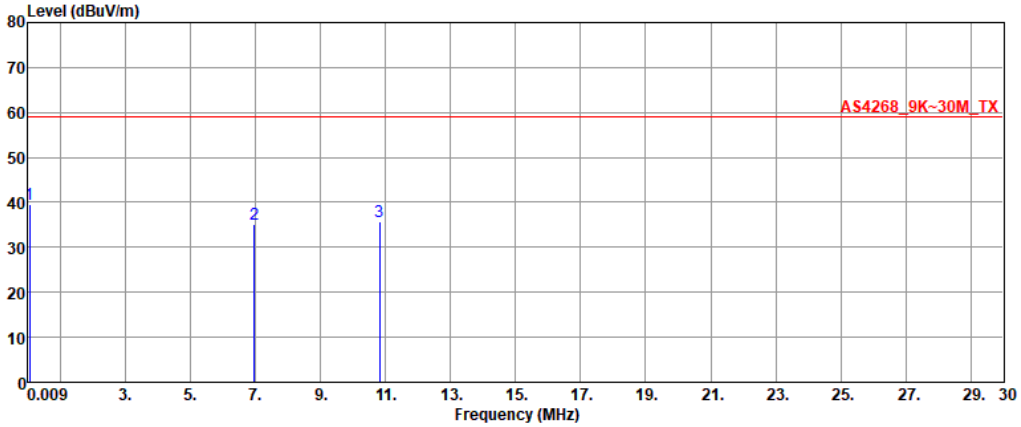


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.03	59.00	-19.97	19.93	19.10
2	0.15	44.92	59.00	-14.08	19.14	25.78
3	8.66	34.16	59.00	-24.84	20.48	13.68

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.67	59.00	-19.33	19.19	20.48
2	6.97	35.19	59.00	-23.81	20.78	14.41
3	10.82	35.87	59.00	-23.13	21.25	14.62

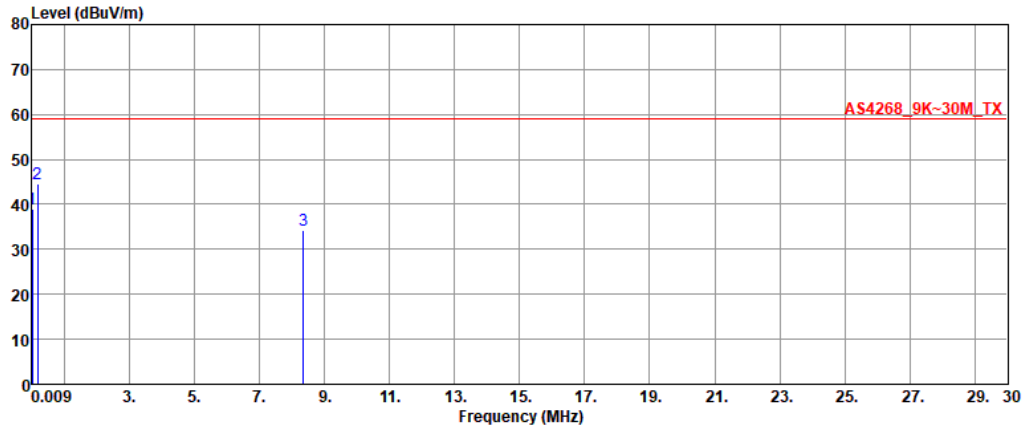
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 7: Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

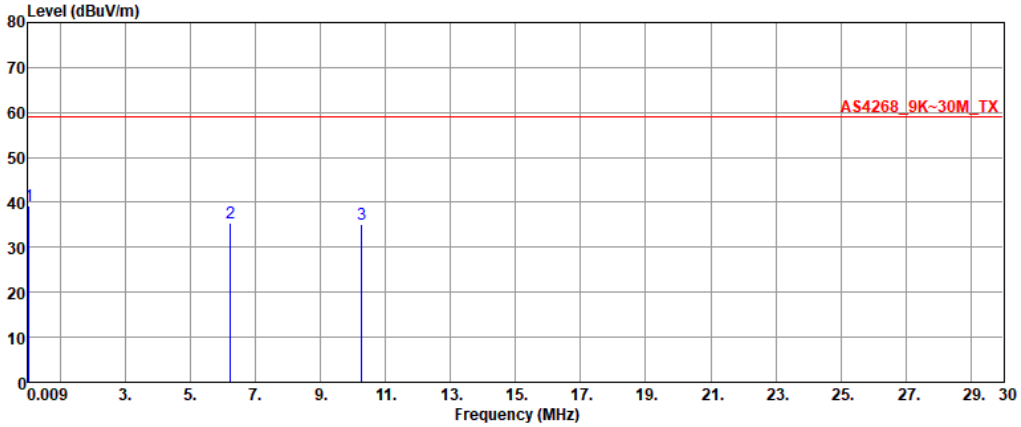


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.01	39.01	59.00	-19.99	18.58	20.43
2	0.18	44.55	59.00	-14.45	19.31	25.24
3	8.34	34.12	59.00	-24.88	20.48	13.64

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

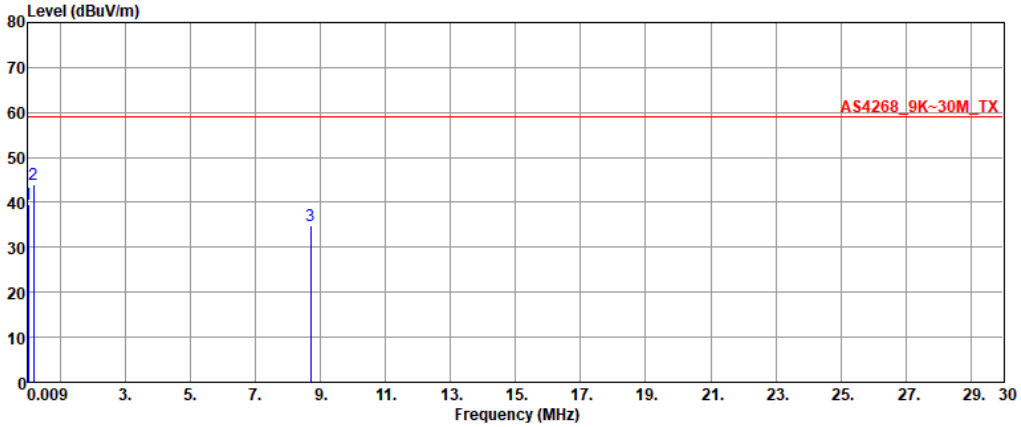


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.03	39.36	59.00	-19.64	19.76	19.60
2	6.23	35.41	59.00	-23.59	20.99	14.42
3	10.27	35.08	59.00	-23.92	21.07	14.01

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

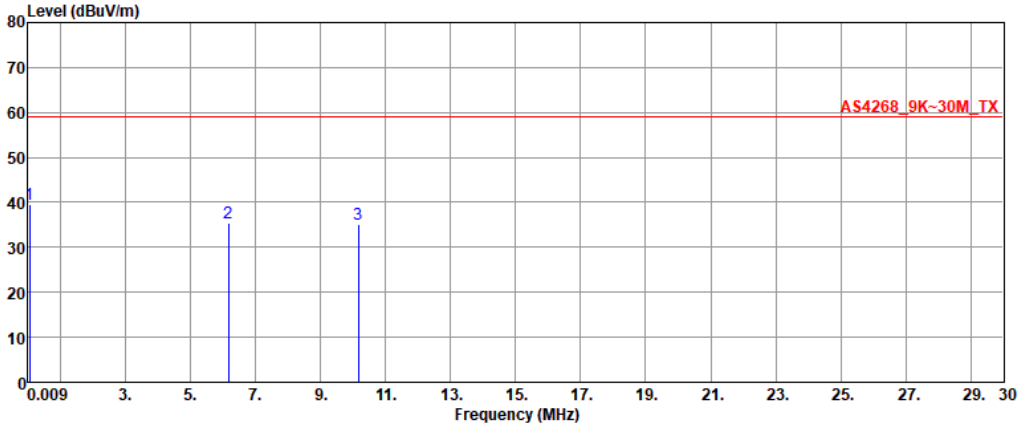


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.62	59.00	-19.38	19.49	20.13
2	0.18	44.13	59.00	-14.87	19.34	24.79
3	8.68	34.72	59.00	-24.28	20.48	14.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.65	59.00	-19.35	19.87	19.78
2	6.16	35.53	59.00	-23.47	21.01	14.52
3	10.17	35.12	59.00	-23.88	21.04	14.08

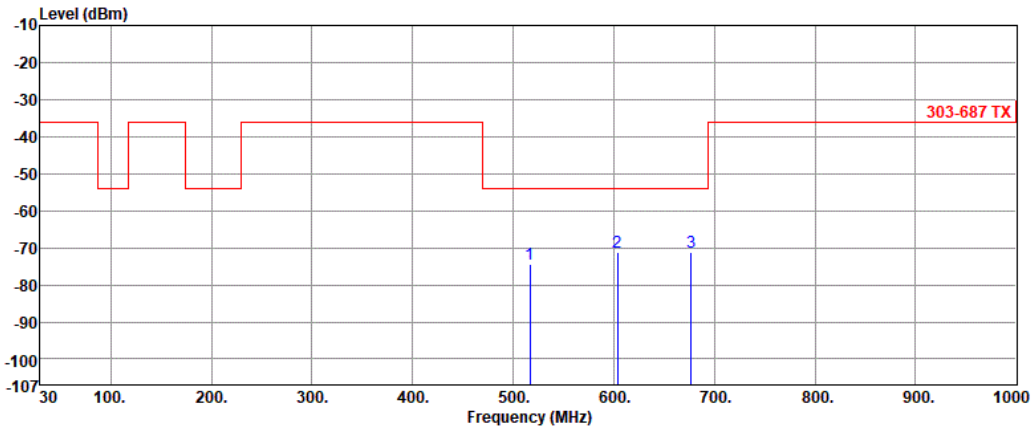
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

full RU configuration

Emissions (Below 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

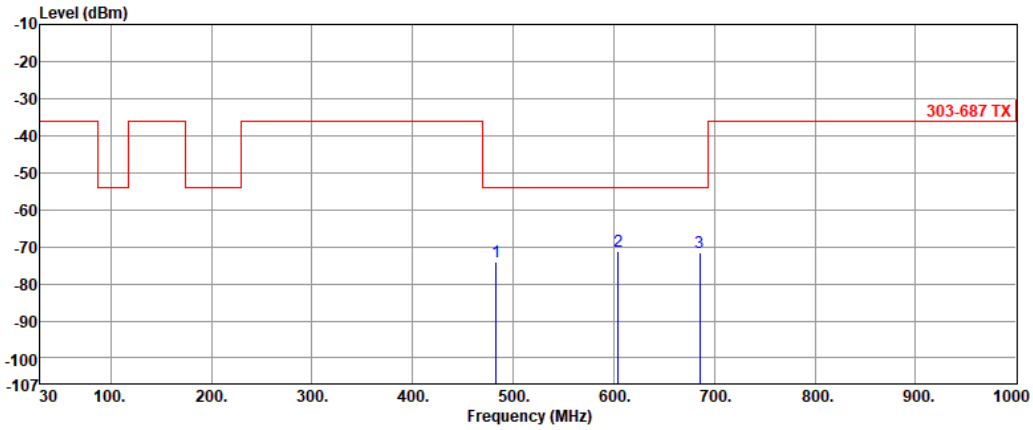


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	516.60	-74.48	-54.00	-20.48	3.12	-77.60
2	603.46	-71.11	-54.00	-17.11	4.86	-75.97
3	677.12	-71.12	-54.00	-17.12	5.94	-77.06

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

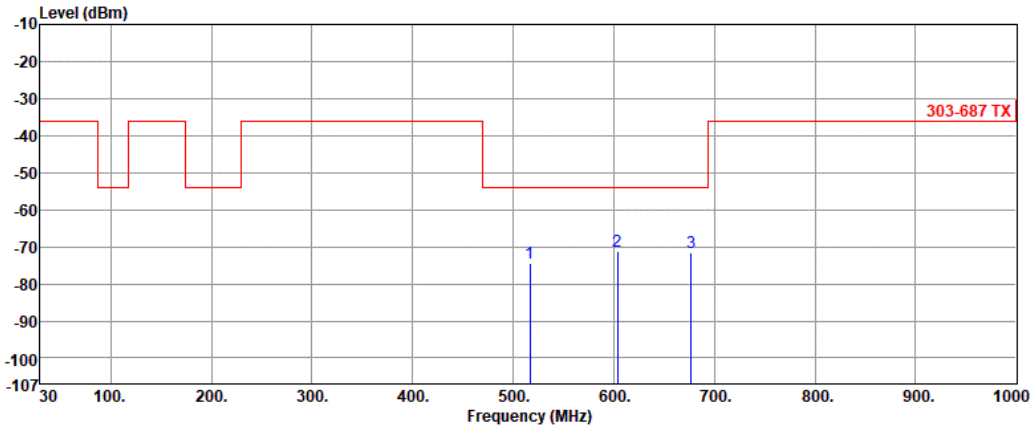


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	482.99	-73.90	-54.00	-19.90	2.14	-76.04
2	604.24	-71.15	-54.00	-17.15	5.25	-76.40
3	685.72	-71.69	-54.00	-17.69	6.36	-78.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

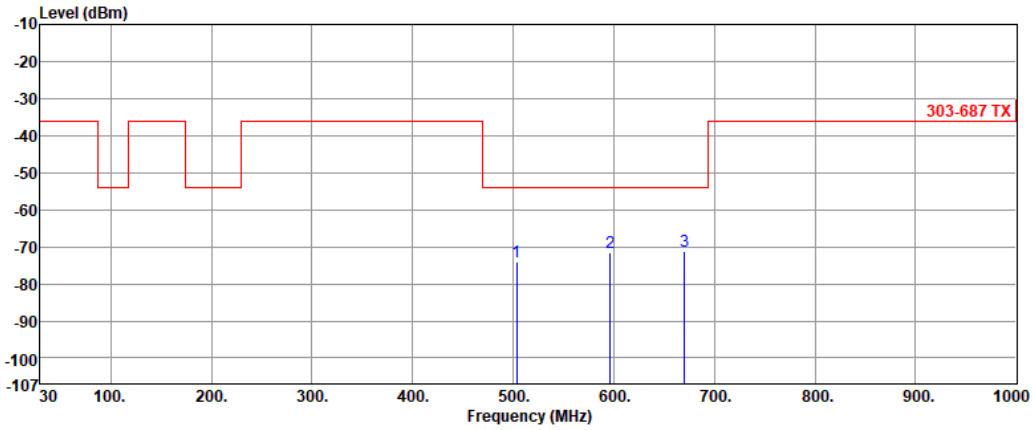


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	516.37	-74.58	-54.00	-20.58	3.10	-77.68
2	603.52	-71.12	-54.00	-17.12	4.86	-75.98
3	677.13	-71.48	-54.00	-17.48	5.94	-77.42

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

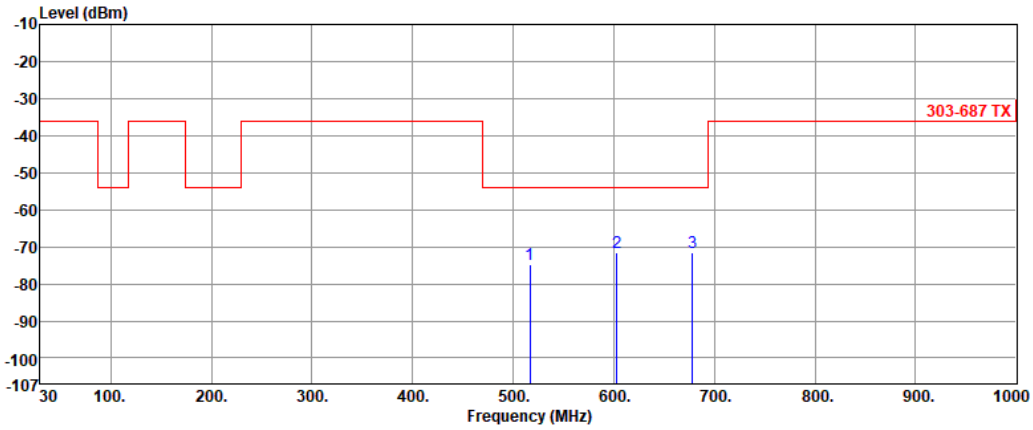


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	503.36	-73.91	-54.00	-19.91	2.63	-76.54
2	596.48	-71.73	-54.00	-17.73	4.92	-76.65
3	670.20	-71.34	-54.00	-17.34	5.70	-77.04

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

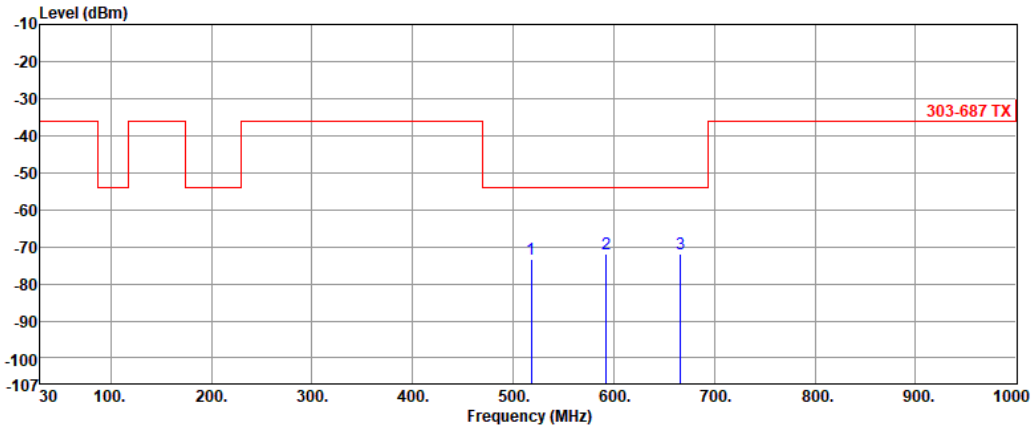


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	516.94	-74.78	-54.00	-20.78	3.15	-77.93
2	603.27	-71.58	-54.00	-17.58	4.85	-76.43
3	677.96	-71.56	-54.00	-17.56	6.00	-77.56

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

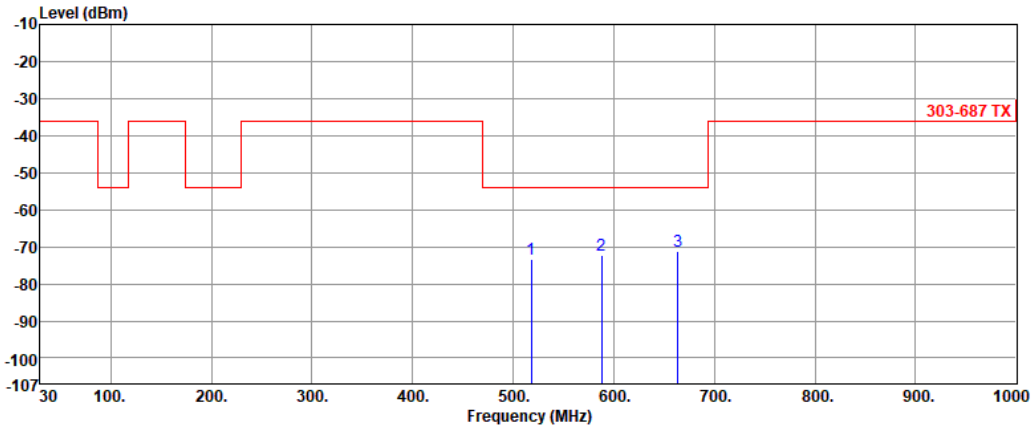


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	517.91	-73.26	-54.00	-19.26	3.32	-76.58
2	592.60	-71.99	-54.00	-17.99	4.80	-76.79
3	666.32	-71.82	-54.00	-17.82	5.48	-77.30

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

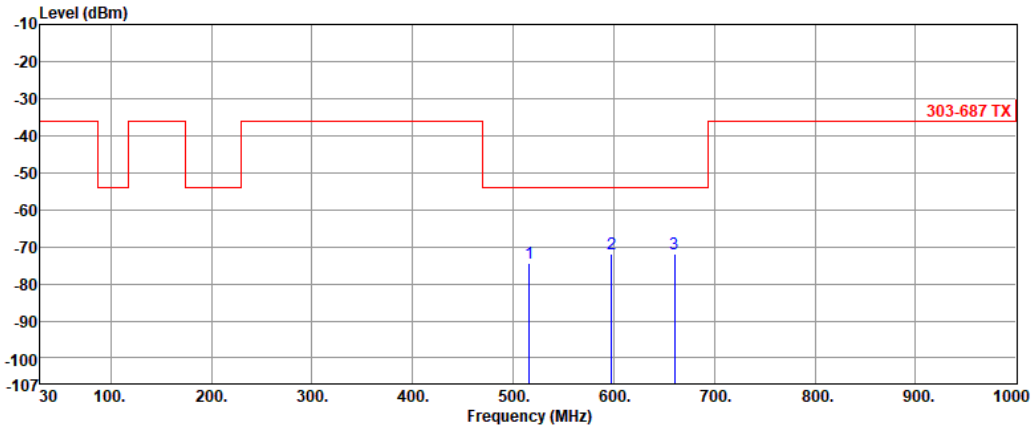


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	517.91	-73.38	-54.00	-19.38	3.24	-76.62
2	587.75	-72.39	-54.00	-18.39	4.78	-77.17
3	663.41	-71.35	-54.00	-17.35	5.70	-77.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



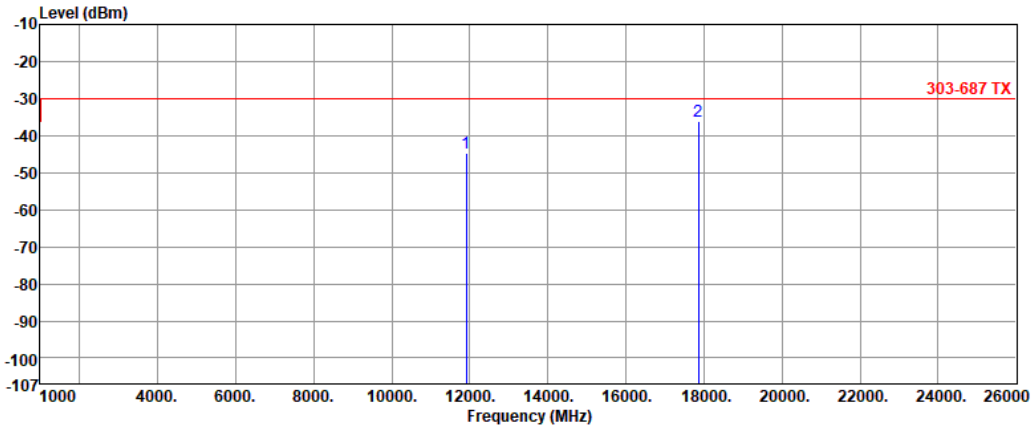
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	515.97	-74.32	-54.00	-20.32	3.14	-77.46
2	597.45	-71.82	-54.00	-17.82	5.01	-76.83
3	660.50	-72.04	-54.00	-18.04	5.44	-77.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11a	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

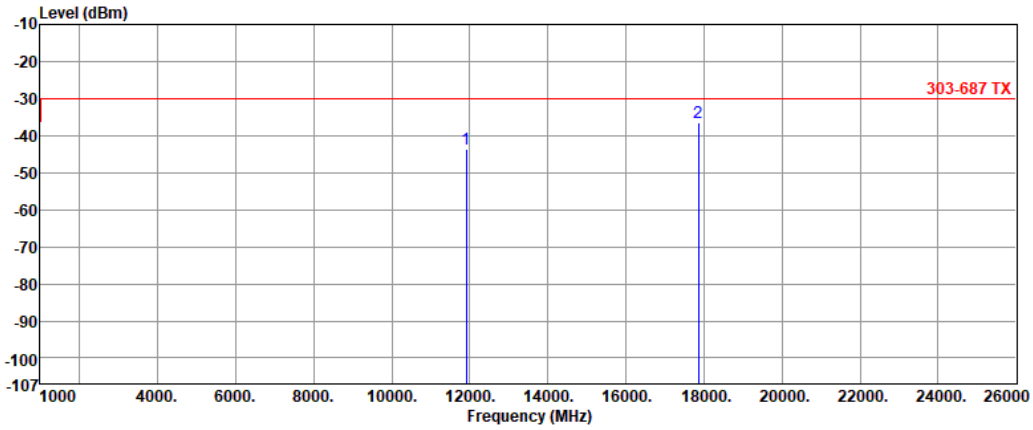


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11910.85	-44.74	-30.00	-14.74	19.52	-64.26
2	17865.85	-36.27	-30.00	-6.27	27.86	-64.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

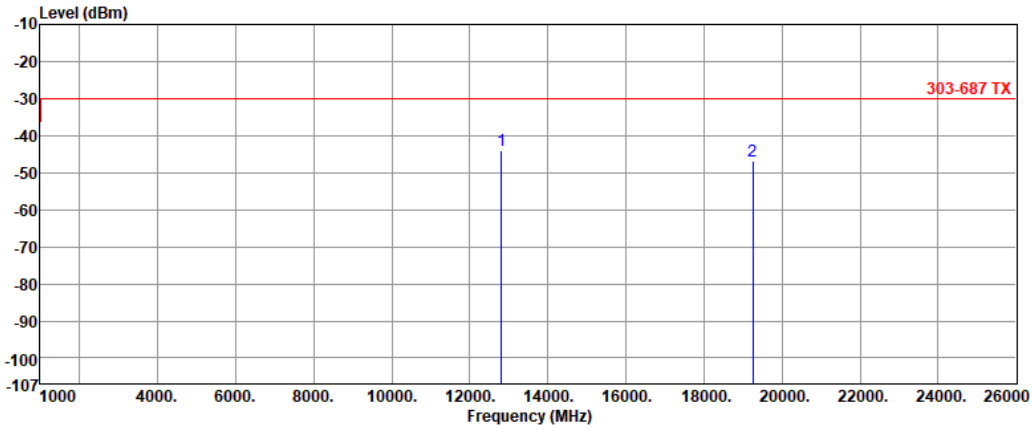


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11910.75	-43.60	-30.00	-13.60	20.28	-63.88
2	17862.90	-36.33	-30.00	-6.33	27.26	-63.59

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

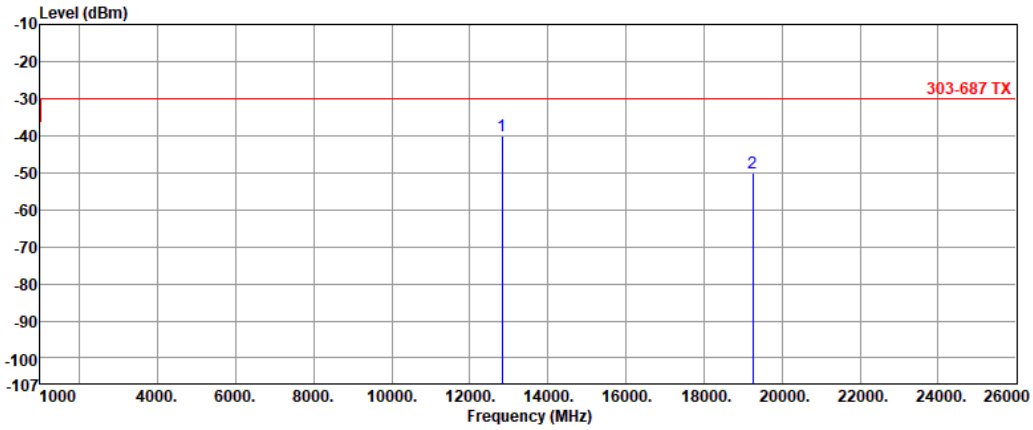


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12806.45	-44.15	-30.00	-14.15	20.22	-64.37
2	19244.82	-46.75	-30.00	-16.75	3.50	-50.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

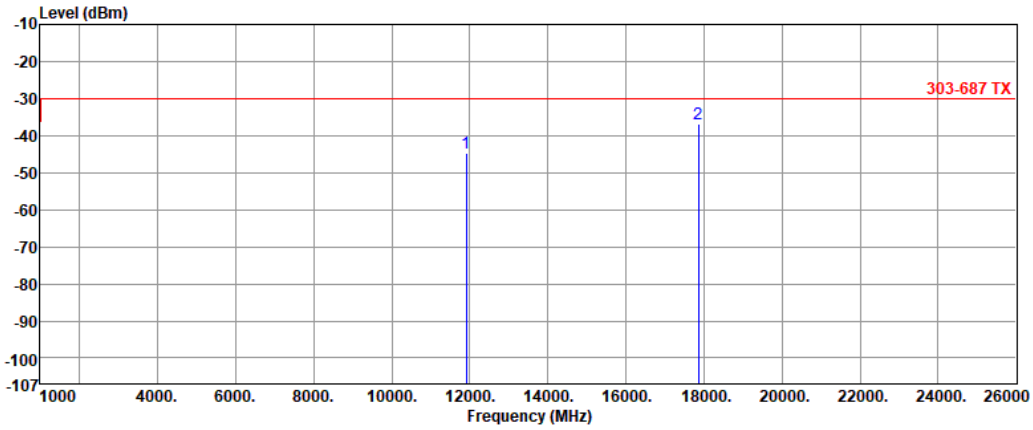


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12830.00	-40.21	-30.00	-10.21	20.88	-61.09
2	19245.44	-50.23	-30.00	-20.23	2.30	-52.53

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

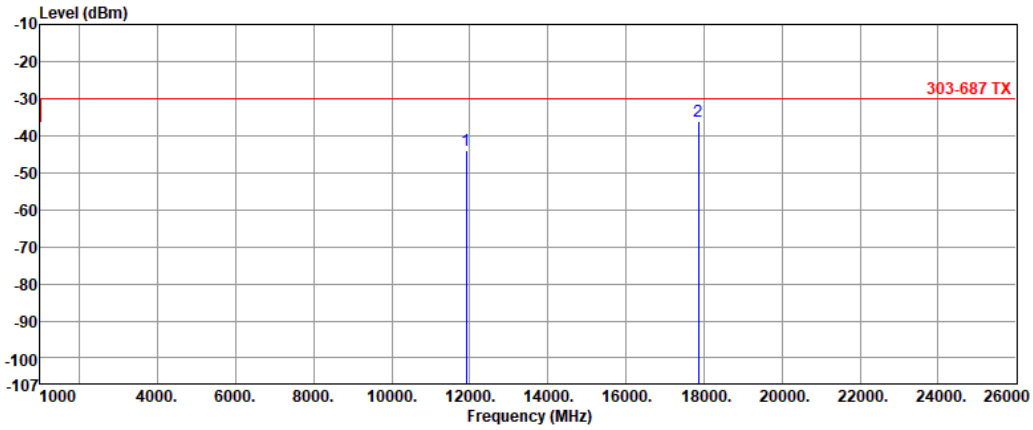


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11910.15	-44.64	-30.00	-14.64	19.51	-64.15
2	17865.15	-36.84	-30.00	-6.84	27.85	-64.69

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

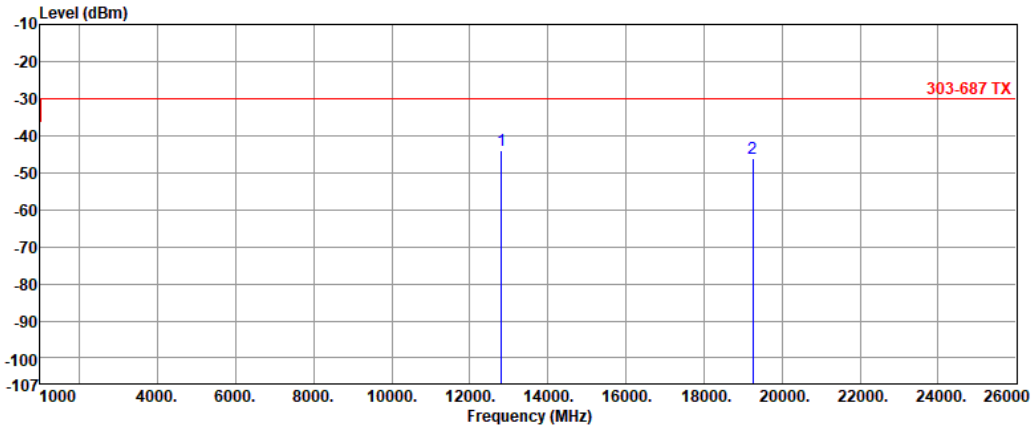


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11910.70	-43.86	-30.00	-13.86	20.28	-64.14
2	17865.15	-35.98	-30.00	-5.98	27.31	-63.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

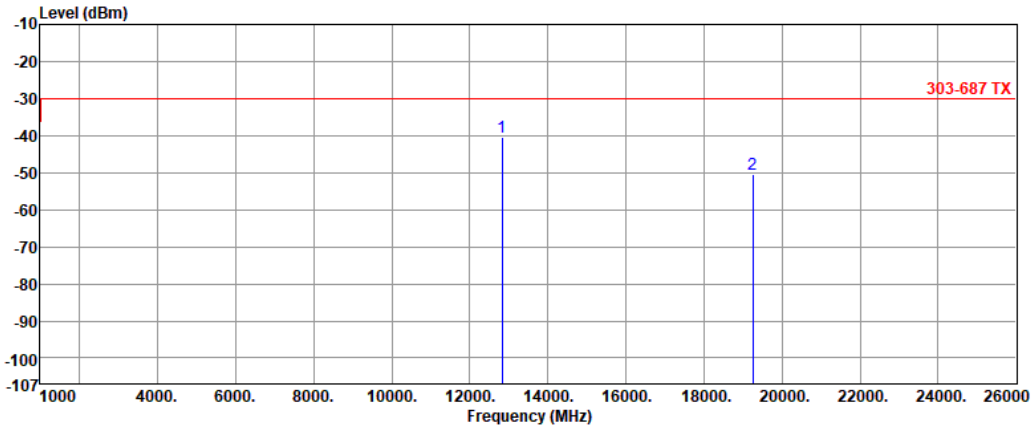


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12806.54	-44.02	-30.00	-14.02	20.22	-64.24
2	19244.84	-46.25	-30.00	-16.25	3.50	-49.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12830.21	-40.41	-30.00	-10.41	20.88	-61.29
2	19245.14	-50.45	-30.00	-20.45	2.30	-52.75

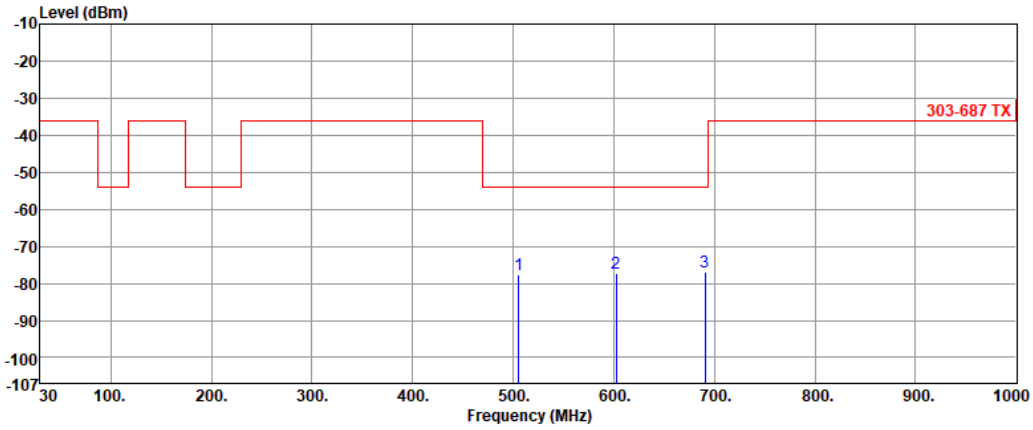
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

full RU configuration

Emissions (Below 1GHz)

Modulation	11a
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

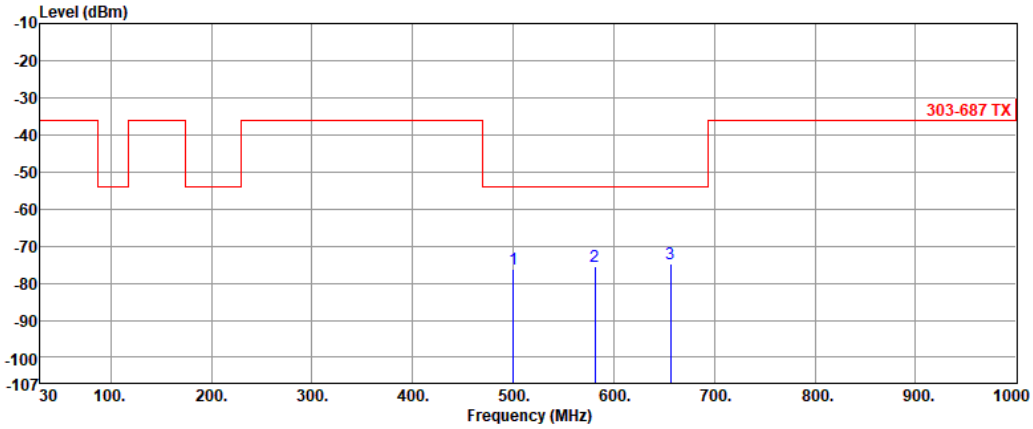


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	505.30	-77.51	-54.00	-23.51	0.00	-77.51
2	602.30	-77.32	-54.00	-23.32	0.00	-77.32
3	690.57	-76.92	-54.00	-22.92	0.00	-76.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64

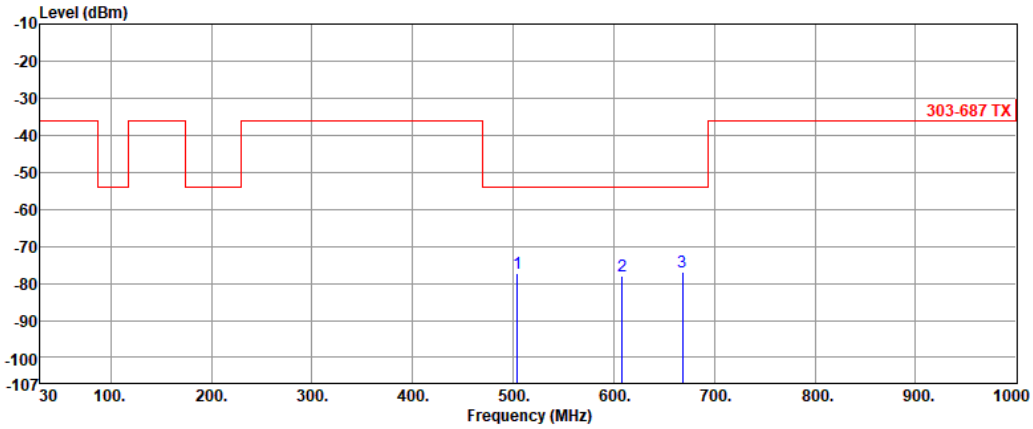


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-76.24	-54.00	-22.24	0.00	-76.24
2	580.96	-75.58	-54.00	-21.58	0.00	-75.58
3	656.62	-74.70	-54.00	-20.70	0.00	-74.70

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

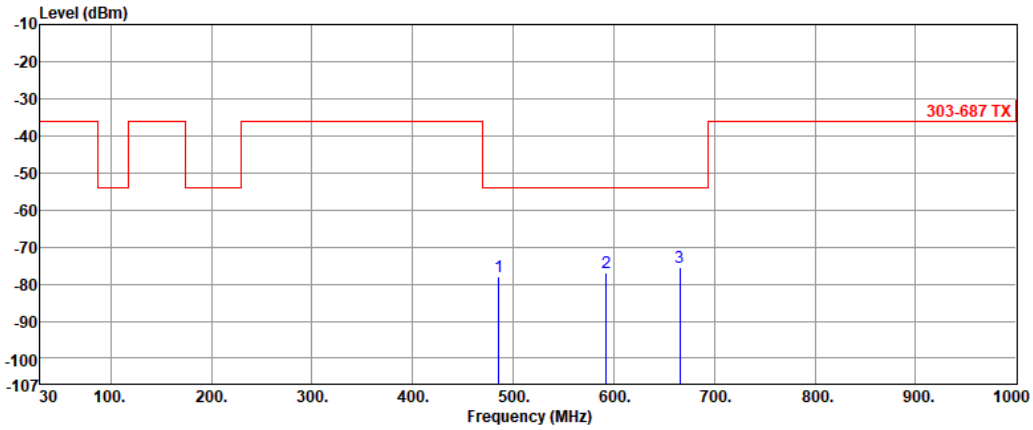


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	504.33	-77.39	-54.00	-23.39	0.00	-77.39
2	608.12	-77.92	-54.00	-23.92	0.00	-77.92
3	668.26	-77.07	-54.00	-23.07	0.00	-77.07

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



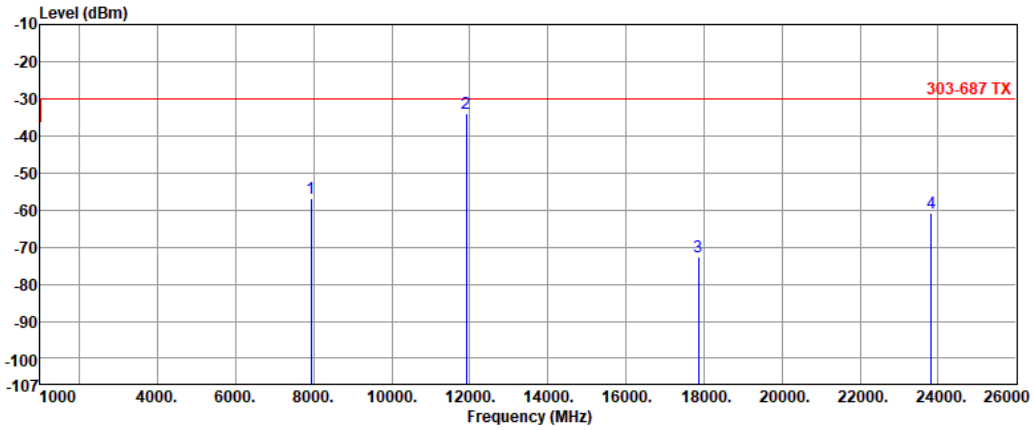
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	485.90	-77.83	-54.00	-23.83	0.00	-77.83
2	592.60	-76.95	-54.00	-22.95	0.00	-76.95
3	665.35	-75.48	-54.00	-21.48	0.00	-75.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11a
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

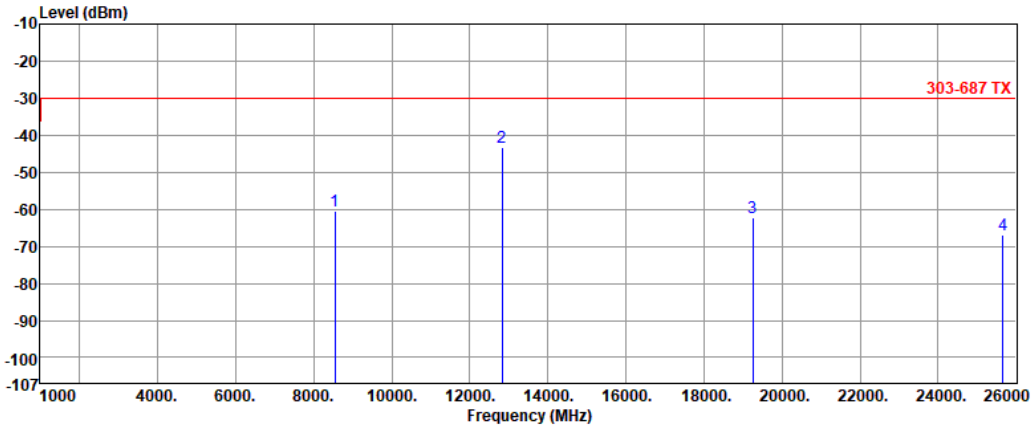


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	7939.92	-56.99	-30.00	-26.99	0.00	-56.99
2	11908.30	-34.00	-30.00	-4.00	0.00	-34.00
3	17865.10	-72.73	-30.00	-42.73	0.00	-72.73
4	23820.00	-60.89	-30.00	-30.89	0.00	-60.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64

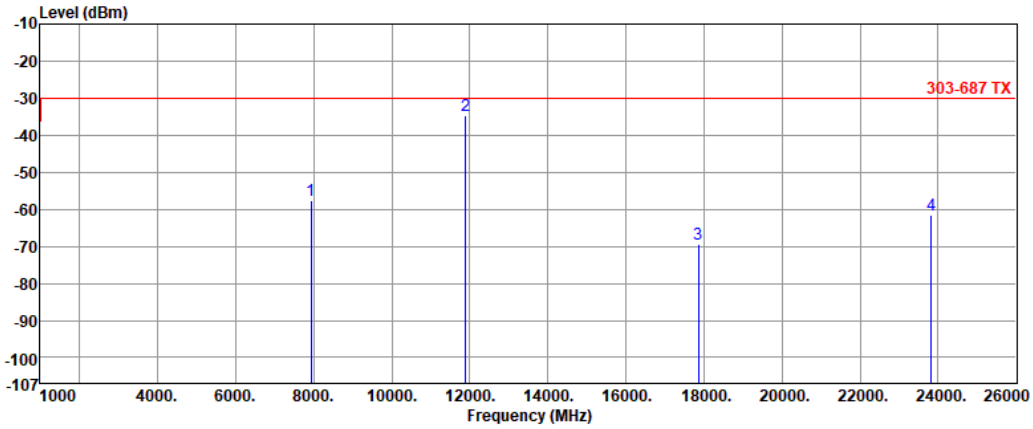


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	8553.41	-60.39	-30.00	-30.39	0.00	-60.39
2	12830.60	-43.45	-30.00	-13.45	0.00	-43.45
3	19246.50	-62.37	-30.00	-32.37	0.00	-62.37
4	25663.40	-66.94	-30.00	-36.94	0.00	-66.94

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

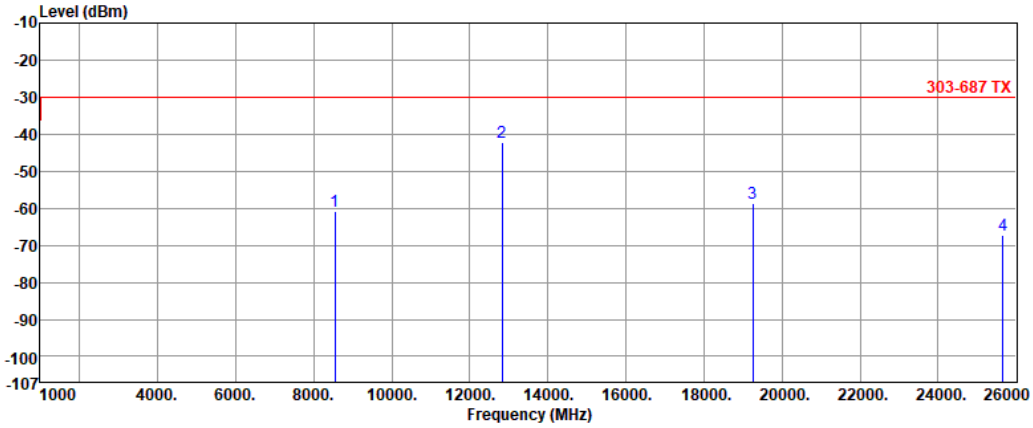


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	7940.24	-57.44	-30.00	-27.44	0.00	-57.44
2	11901.10	-34.74	-30.00	-4.74	0.00	-34.74
3	17862.50	-69.25	-30.00	-39.25	0.00	-69.25
4	23819.90	-61.48	-30.00	-31.48	0.00	-61.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	8553.50	-60.67	-30.00	-30.67	0.00	-60.67
2	12835.60	-42.37	-30.00	-12.37	0.00	-42.37
3	19247.40	-58.53	-30.00	-28.53	0.00	-58.53
4	25663.60	-67.44	-30.00	-37.44	0.00	-67.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

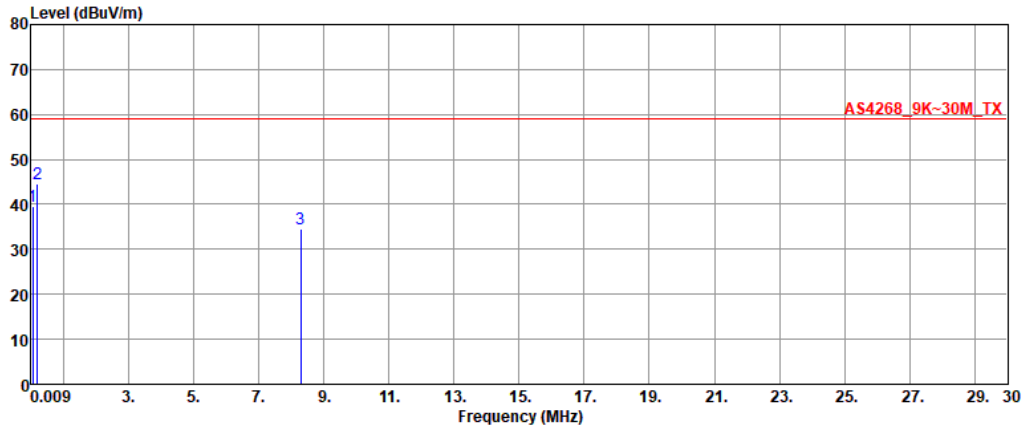
partial RU configuration

Configuration 1: Chip Antenna_ANT1608LL14R2460A

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

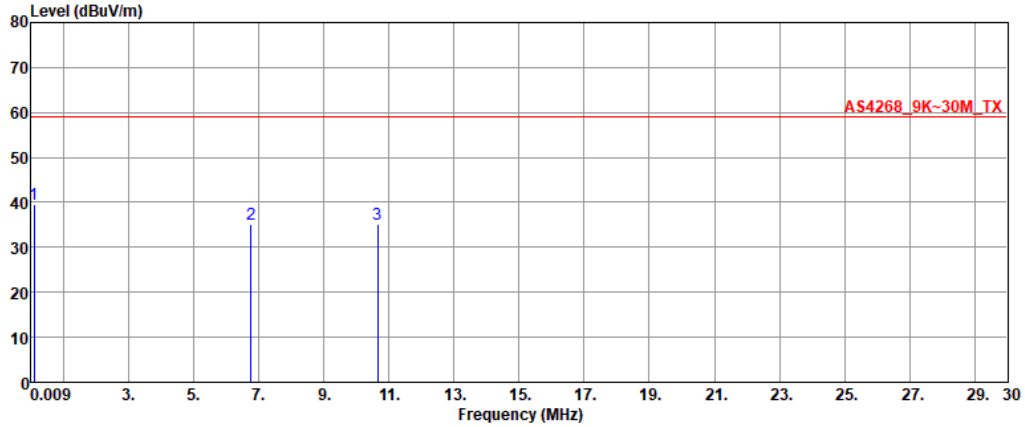


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.70	59.00	-19.30	18.86	20.84
2	0.19	44.49	59.00	-14.51	19.42	25.07
3	8.29	34.41	59.00	-24.59	20.48	13.93

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.64	59.00	-19.36	18.88	20.76
2	6.77	35.17	59.00	-23.83	20.83	14.34
3	10.65	35.13	59.00	-23.87	21.20	13.93

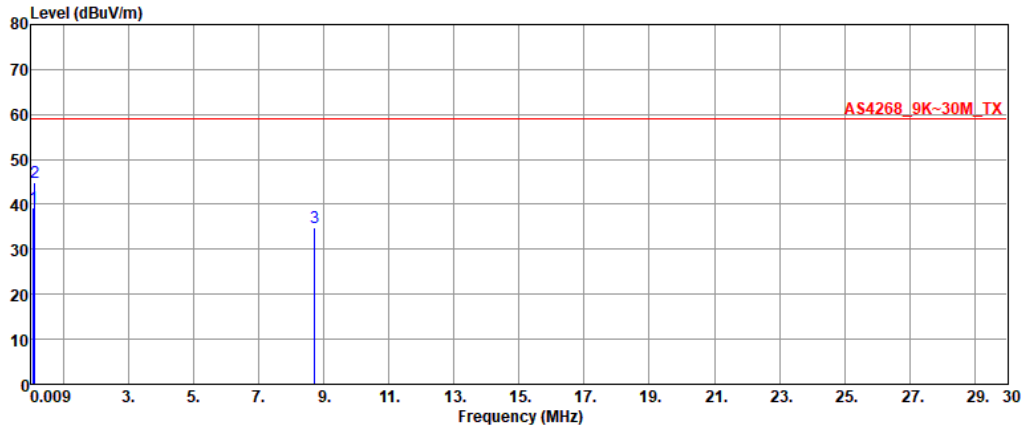
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 2: Dipole 6E_TWX-100BRS3B

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

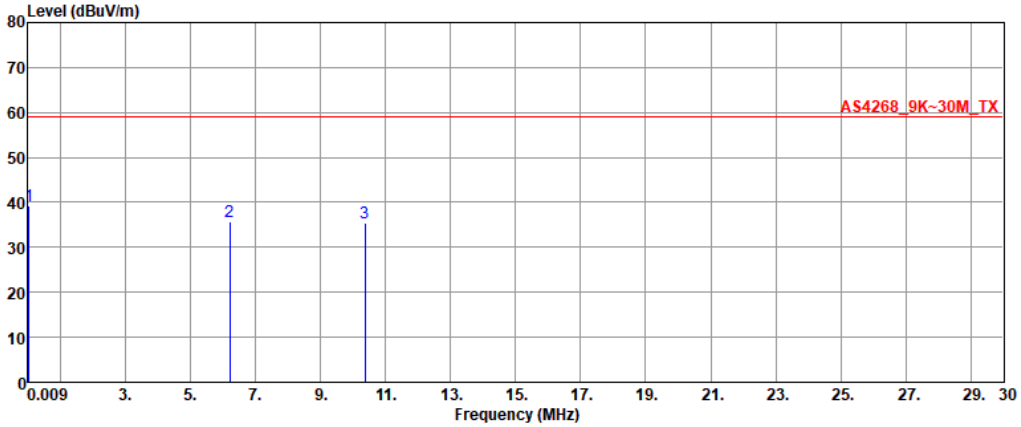


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.19	59.00	-19.81	18.92	20.27
2	0.11	44.80	59.00	-14.20	18.79	26.01
3	8.72	34.97	59.00	-24.03	20.48	14.49

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.18	59.00	-19.82	19.83	19.35
2	6.22	35.72	59.00	-23.28	20.99	14.73
3	10.37	35.29	59.00	-23.71	21.11	14.18

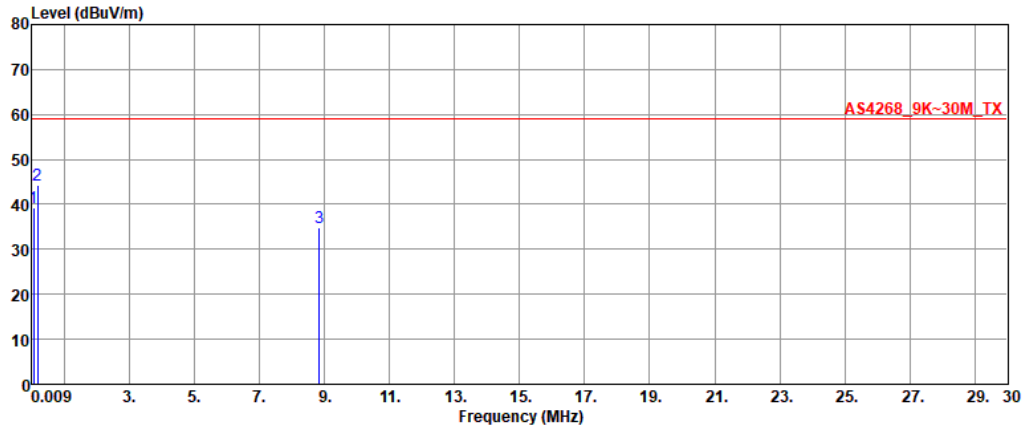
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 3: FlexMIMO 6E_EFD2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

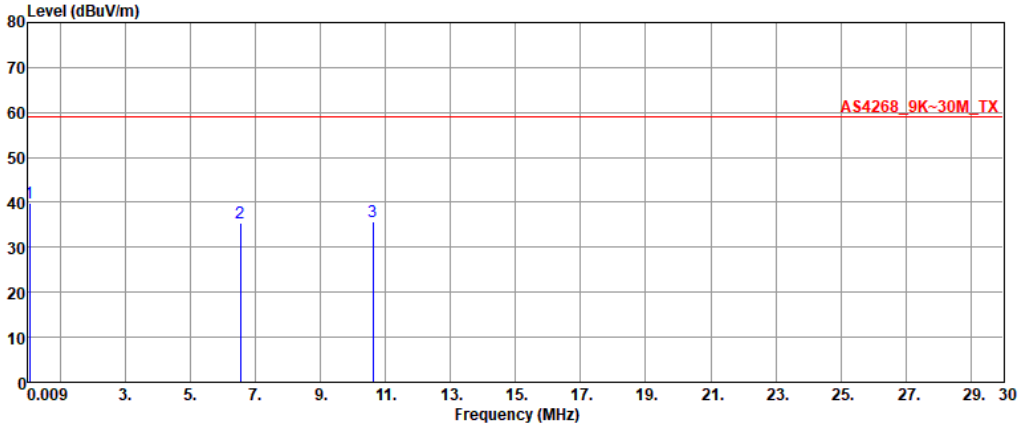


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.26	59.00	-19.74	19.90	19.36
2	0.17	44.21	59.00	-14.79	19.30	24.91
3	8.84	34.94	59.00	-24.06	20.48	14.46

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.77	59.00	-19.23	19.92	19.85
2	6.54	35.46	59.00	-23.54	20.89	14.57
3	10.61	35.62	59.00	-23.38	21.19	14.43

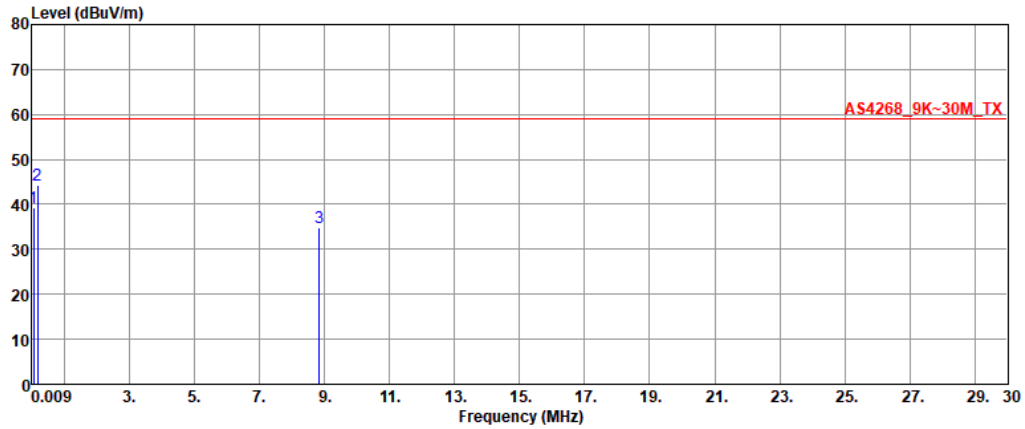
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 4: FlexPIFA 6E_EFB2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

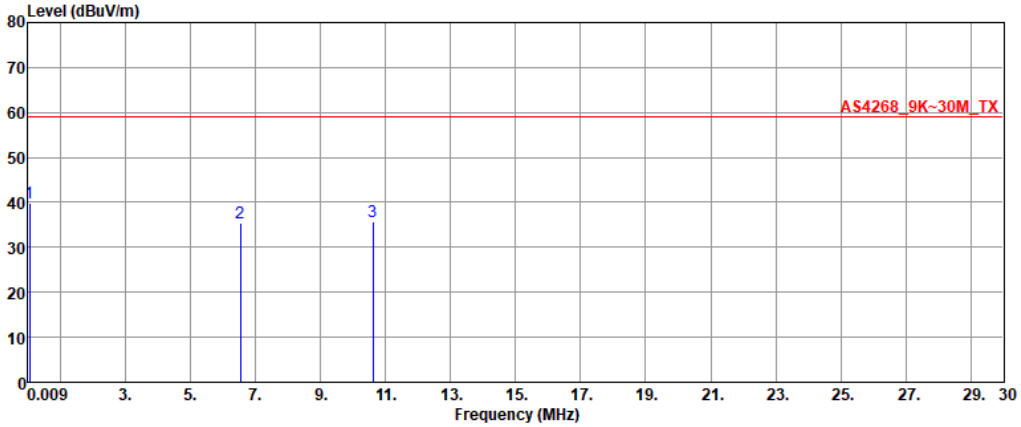


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.26	59.00	-19.74	19.90	19.36
2	0.17	44.21	59.00	-14.79	19.30	24.91
3	8.84	34.94	59.00	-24.06	20.48	14.46

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.77	59.00	-19.23	19.92	19.85
2	6.54	35.46	59.00	-23.54	20.89	14.57
3	10.61	35.62	59.00	-23.38	21.19	14.43

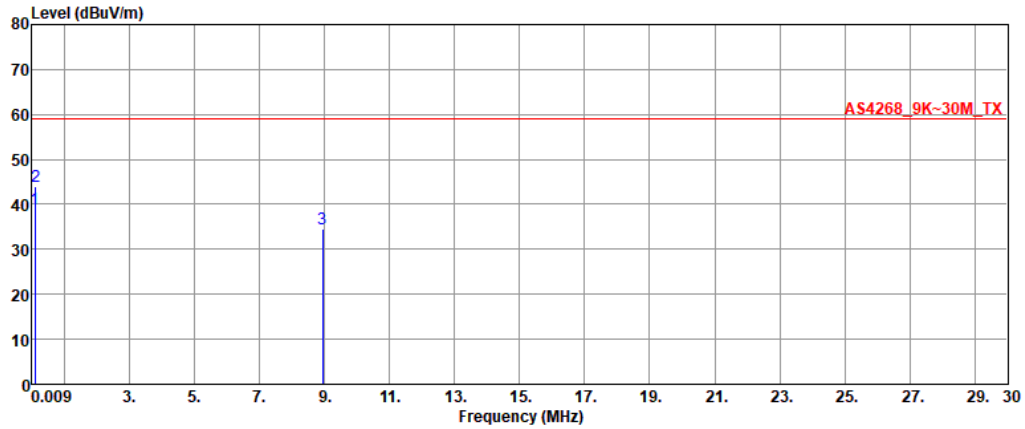
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 5: FlexPIFA Dual Band_001-0021

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

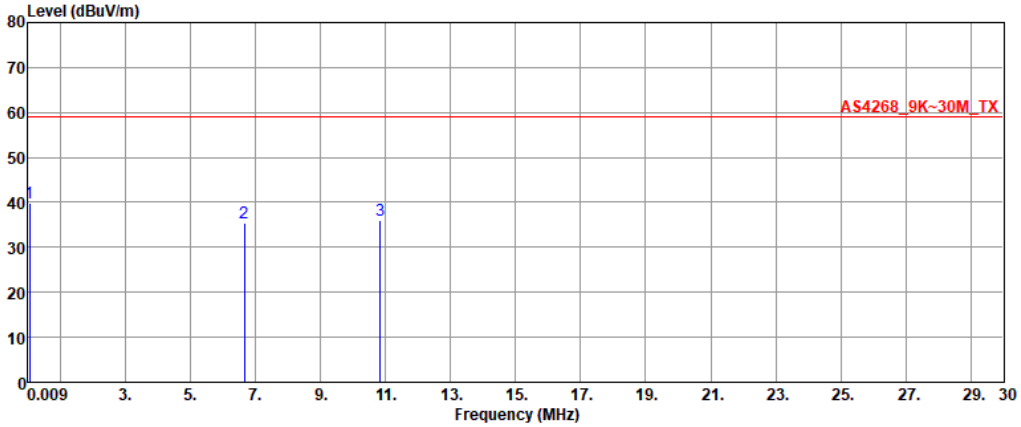


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.08	39.02	59.00	-19.98	18.76	20.26
2	0.11	44.02	59.00	-14.98	18.81	25.21
3	8.95	34.43	59.00	-24.57	20.48	13.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.71	59.00	-19.29	18.95	20.76
2	6.65	35.33	59.00	-23.67	20.86	14.47
3	10.84	35.92	59.00	-23.08	21.25	14.67

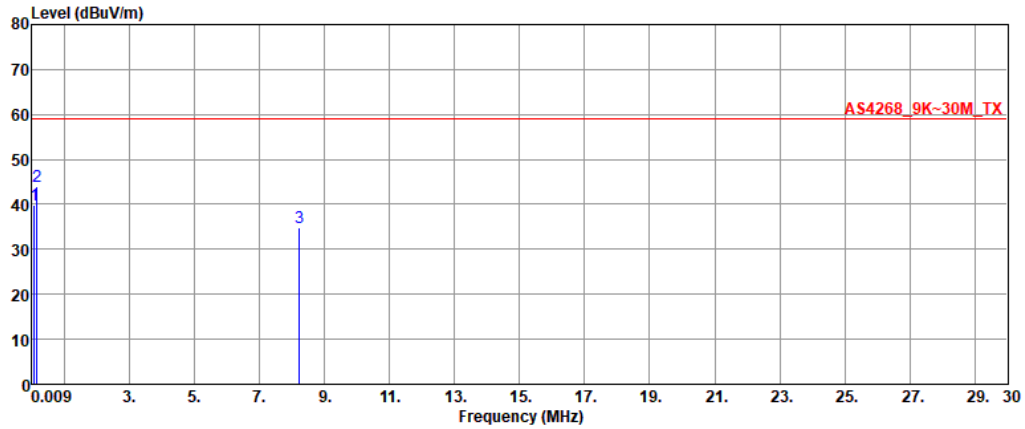
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 6: FlexPIFA Dual Band_EFB2455A3S-15MH4L

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

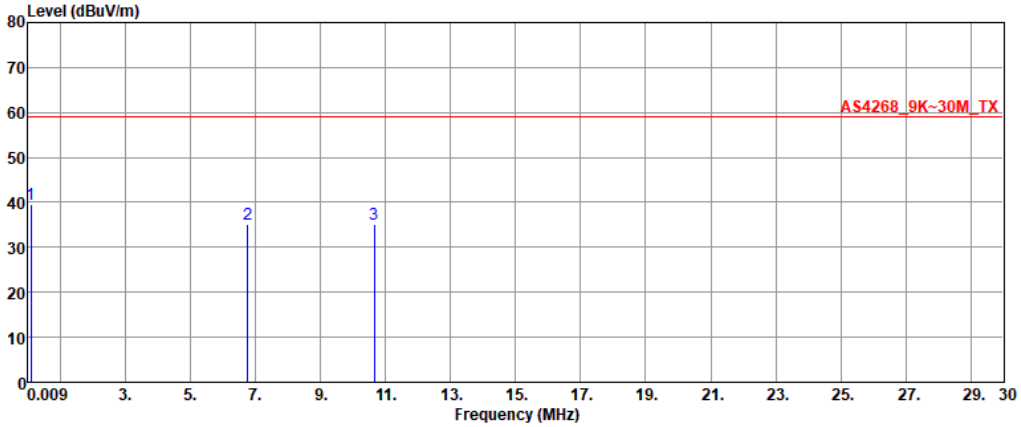


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.08	39.84	59.00	-19.16	18.82	21.02
2	0.14	44.08	59.00	-14.92	19.07	25.01
3	8.22	34.91	59.00	-24.09	20.48	14.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.64	59.00	-19.36	18.88	20.76
2	6.77	35.17	59.00	-23.83	20.83	14.34
3	10.65	35.13	59.00	-23.87	21.20	13.93

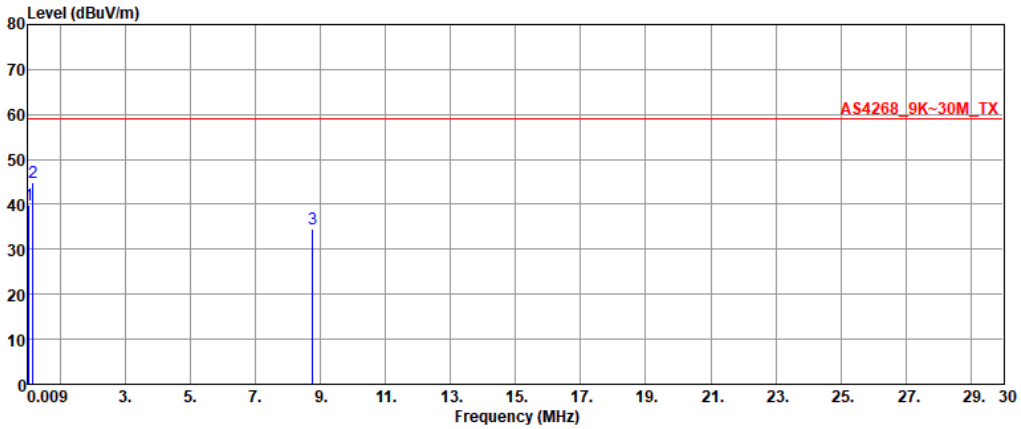
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 7: Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	ax HE20_OFDMA_RU106	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

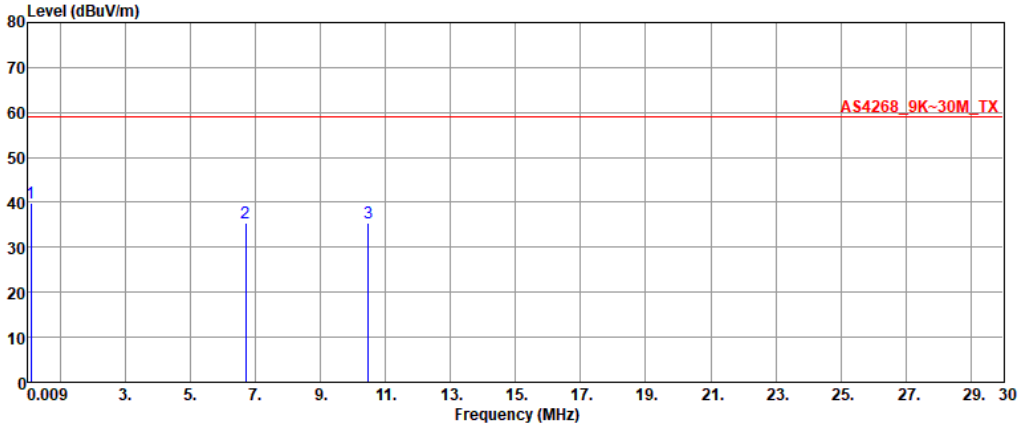


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.03	39.98	59.00	-19.02	19.79	20.19
2	0.15	44.91	59.00	-14.09	19.12	25.79
3	8.77	34.46	59.00	-24.54	20.48	13.98

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA_RU106	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.84	59.00	-19.16	19.02	20.82
2	6.71	35.57	59.00	-23.43	20.84	14.73
3	10.47	35.43	59.00	-23.57	21.14	14.29

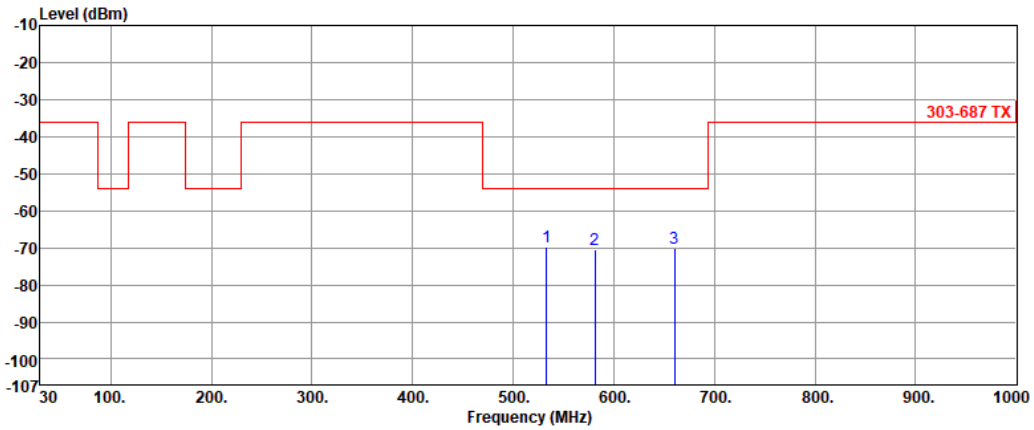
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

partial RU configuration

Emissions (Below 1GHz)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

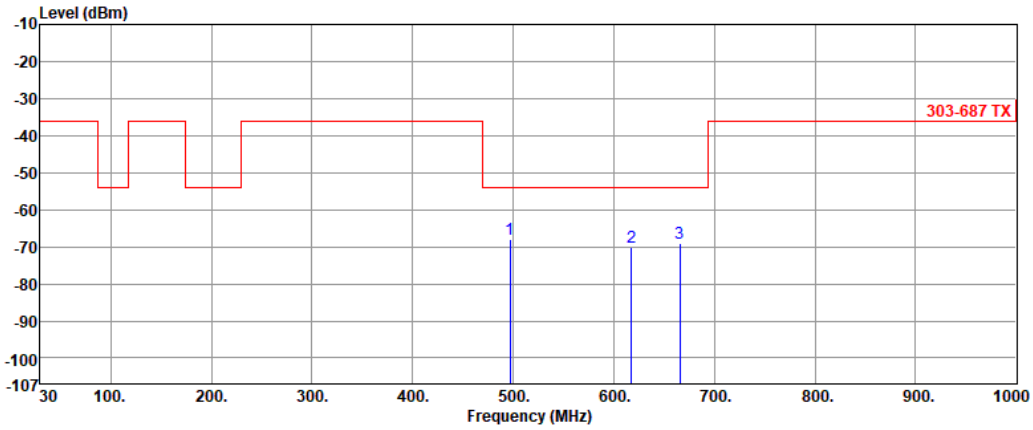


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	533.43	-69.90	-54.00	-15.90	3.33	-73.23
2	580.96	-70.49	-54.00	-16.49	4.57	-75.06
3	660.50	-70.13	-54.00	-16.13	5.77	-75.90

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

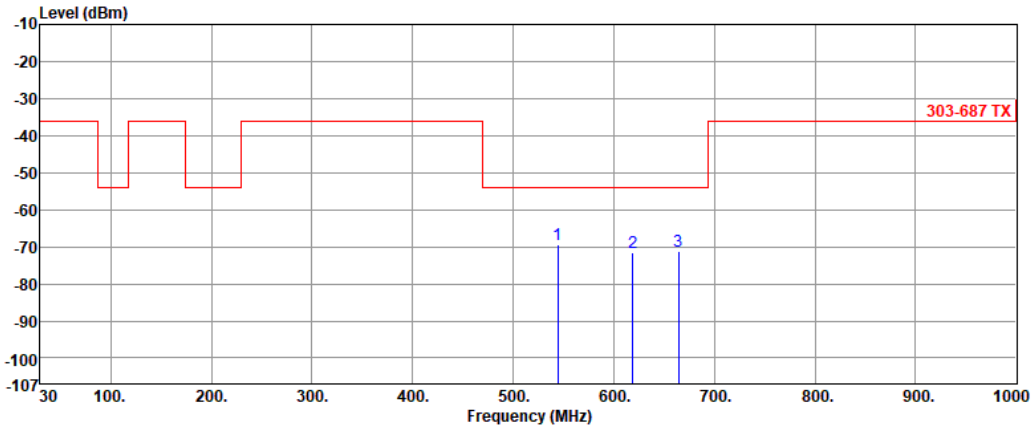


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	496.57	-67.91	-54.00	-13.91	2.65	-70.56
2	617.82	-70.26	-54.00	-16.26	5.22	-75.48
3	665.35	-68.93	-54.00	-14.93	5.43	-74.36

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

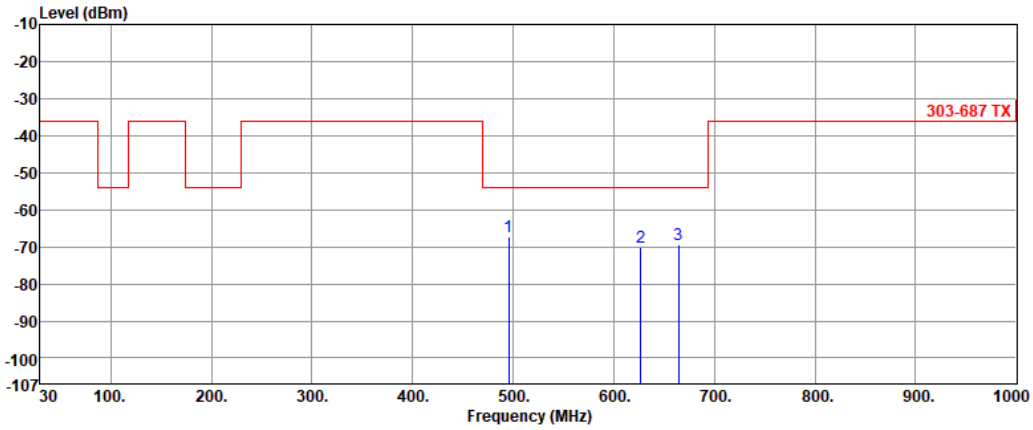


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	544.10	-69.36	-54.00	-15.36	3.57	-72.93
2	618.79	-71.51	-54.00	-17.51	5.02	-76.53
3	664.38	-71.21	-54.00	-17.21	5.68	-76.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



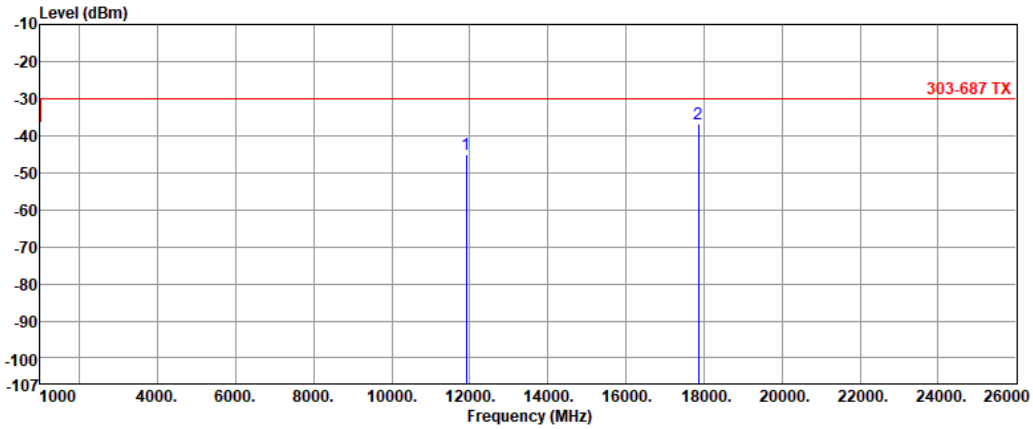
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	495.60	-67.31	-54.00	-13.31	2.64	-69.95
2	626.55	-70.11	-54.00	-16.11	5.25	-75.36
3	664.38	-69.52	-54.00	-15.52	5.41	-74.93

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

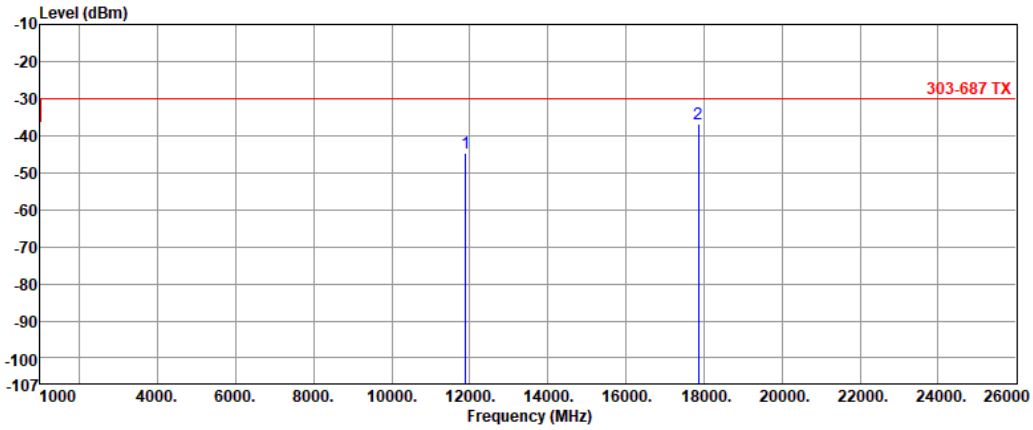


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11910.30	-44.98	-30.00	-14.98	19.51	-64.49
2	17864.60	-36.91	-30.00	-6.91	27.85	-64.76

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

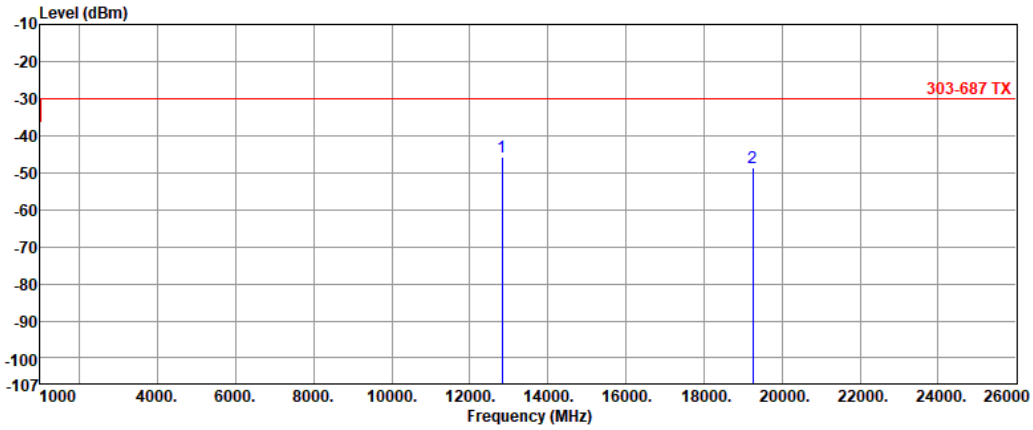


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	11900.25	-44.89	-30.00	-14.89	20.30	-65.19
2	17865.45	-36.91	-30.00	-6.91	27.31	-64.22

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

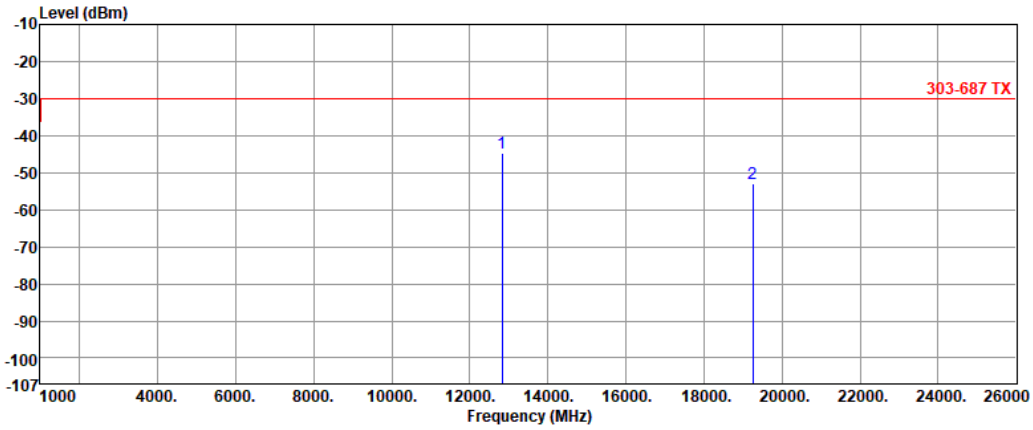


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12830.60	-45.77	-30.00	-15.77	20.24	-66.01
2	19244.75	-48.69	-30.00	-18.69	3.50	-52.19

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106	**Test Freq. (MHz)**	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	12830.10	-44.77	-30.00	-14.77	20.88	-65.65
2	19244.75	-52.82	-30.00	-22.82	2.30	-55.12

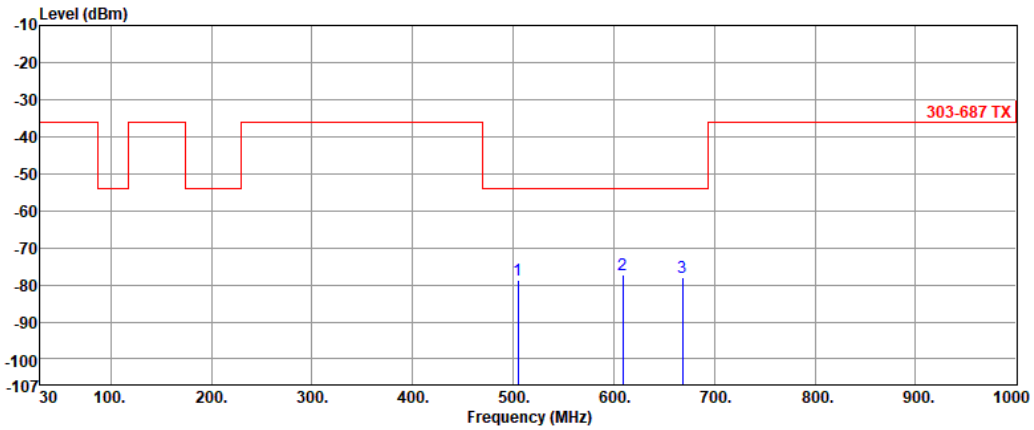
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

partial RU configuration

Emissions (Below 1GHz)

Modulation	ax HE20-OFDMA RU106
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

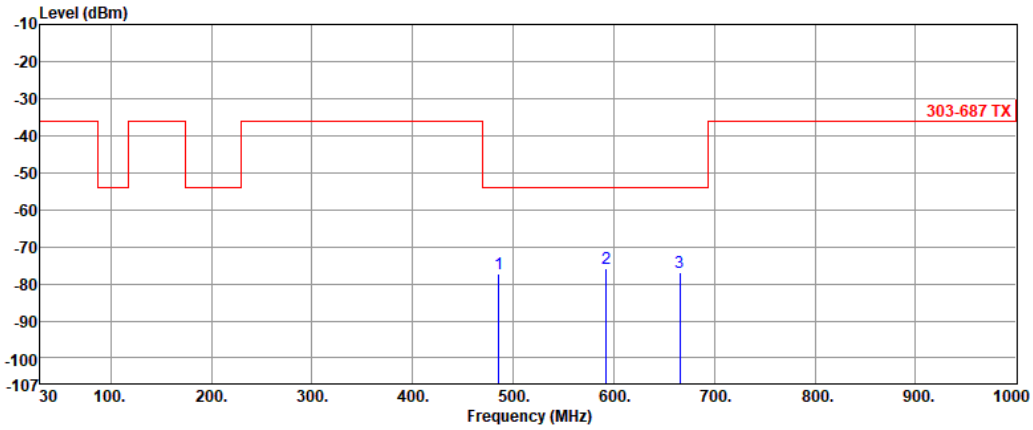


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	504.61	-78.56	-54.00	-24.56	0.00	-78.56
2	608.84	-77.42	-54.00	-23.42	0.00	-77.42
3	668.54	-77.84	-54.00	-23.84	0.00	-77.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



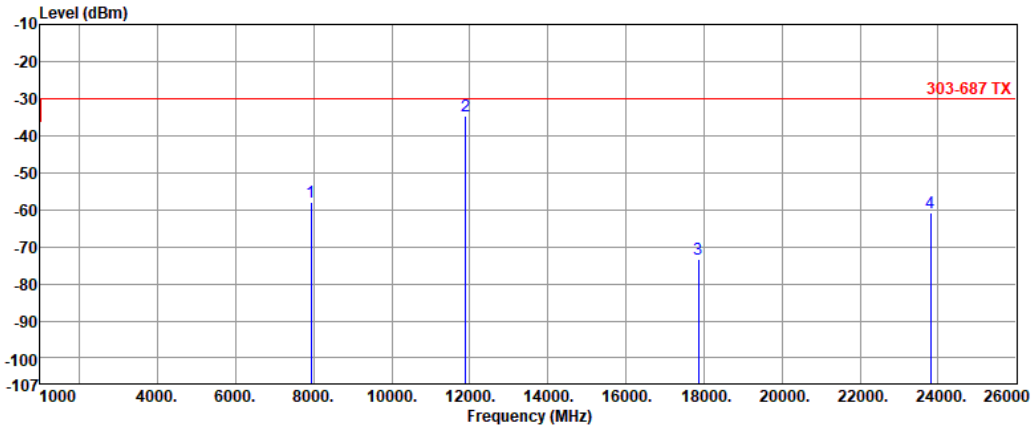
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	485.62	-77.38	-54.00	-23.38	0.00	-77.38
2	592.54	-76.00	-54.00	-22.00	0.00	-76.00
3	665.78	-76.99	-54.00	-22.99	0.00	-76.99

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	ax HE20-OFDMA RU106
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

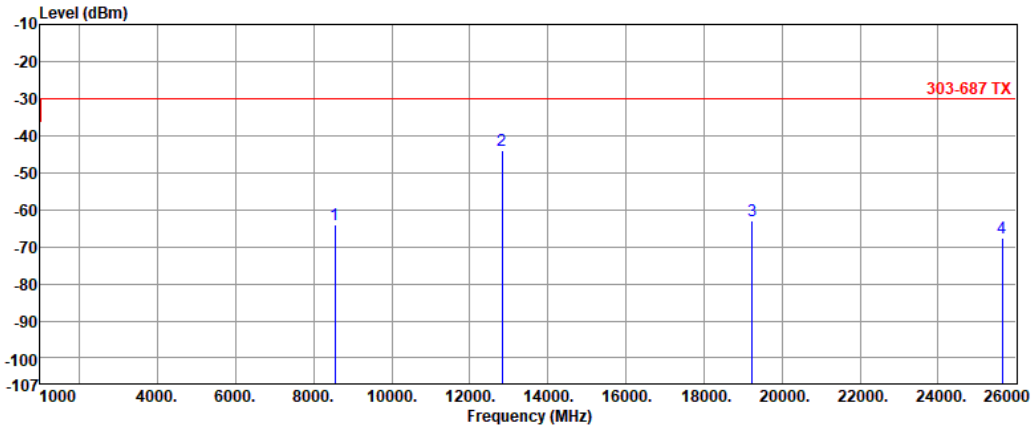


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	7931.95	-58.02	-30.00	-28.02	0.00	-58.02
2	11901.35	-34.80	-30.00	-4.80	0.00	-34.80
3	17865.40	-73.37	-30.00	-43.37	0.00	-73.37
4	23806.70	-60.95	-30.00	-30.95	0.00	-60.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA RU106
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	8548.45	-63.89	-30.00	-33.89	0.00	-63.89
2	12820.55	-43.92	-30.00	-13.92	0.00	-43.92
3	19228.80	-62.99	-30.00	-32.99	0.00	-62.99
4	25636.25	-67.65	-30.00	-37.65	0.00	-67.65

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port
5.945-6.425GHz	-	-	-	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	Pass	5.956376G	5.09	5.965996G	-23.16	-14.83	-8.33	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	5.955648G	4.83	5.984872G	-37.28	-29.91	-7.37	1

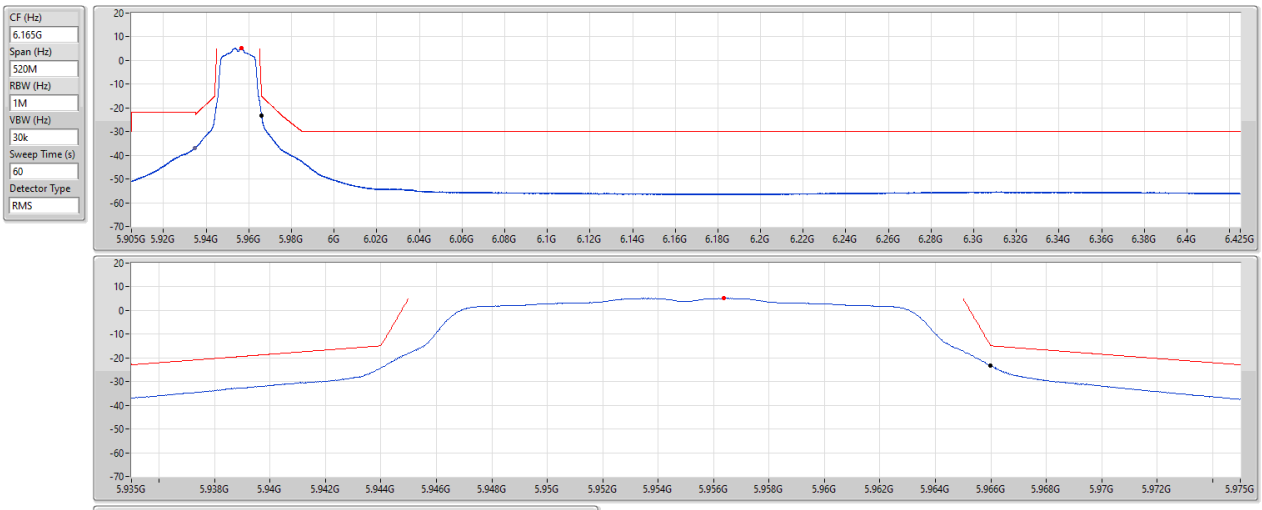
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-
5955MHz_Tnom	Pass	5.956376G	5.09	5.965996G	-23.16	-14.83	-8.33	1
5955MHz_Tnom	Pass	5.956376G	5.09	5.934874G	-36.94	-22.00	-14.94	1
6415MHz_Tnom	Pass	6.416373G	4.65	6.403997G	-25.95	-15.35	-10.60	1
6415MHz_Tnom	Pass	6.416373G	4.65	6.426019G	-25.88	-15.37	-10.51	1
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-
5955MHz_Tnom	Pass	5.955648G	4.83	5.984872G	-37.28	-29.91	-7.37	1
5955MHz_Tnom	Pass	5.955648G	4.83	5.934796G	-33.20	-22.00	-11.20	1
6415MHz_Tnom	Pass	6.415498G	4.69	6.404739G	-9.61	-0.53	-9.08	1
6415MHz_Tnom	Pass	6.415498G	4.69	6.42525G	-10.61	-0.31	-10.30	1

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **MASK**

5955MHz_Tnom

31/01/2026

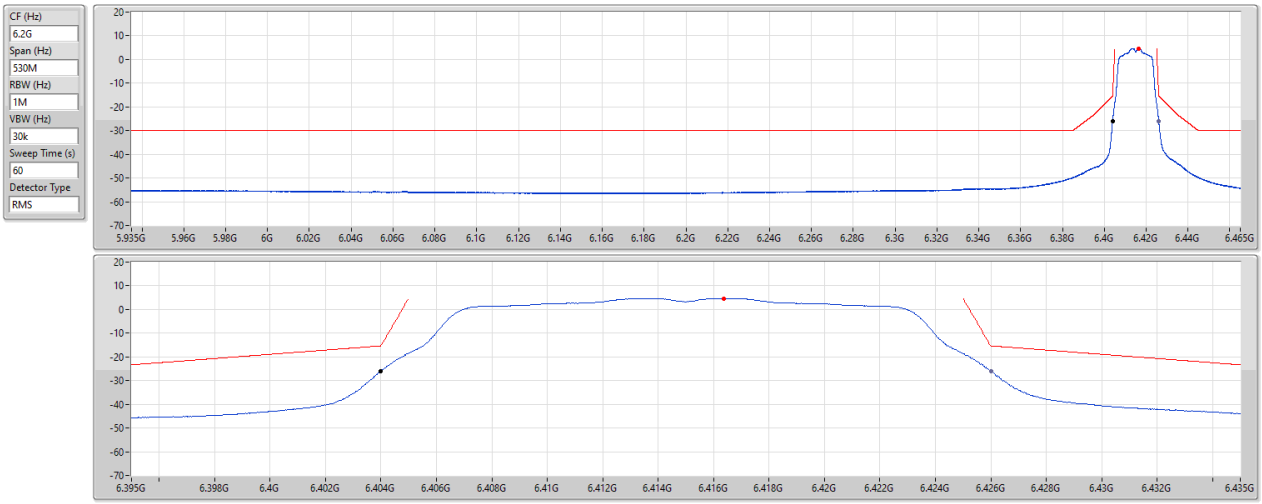


Ref(Hz)	Ref(dBm)	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Range
5.956376G	5.09	5.965996G	-23.16	-14.83	-8.33	1	In Sub-band
5.956376G	5.09	5.934874G	-36.94	-22.00	-14.94	1	OOB

5.945-6.425GHz_802.11a_Nss1,(6Mbps)_1TX **MASK**

6415MHz_Tnom

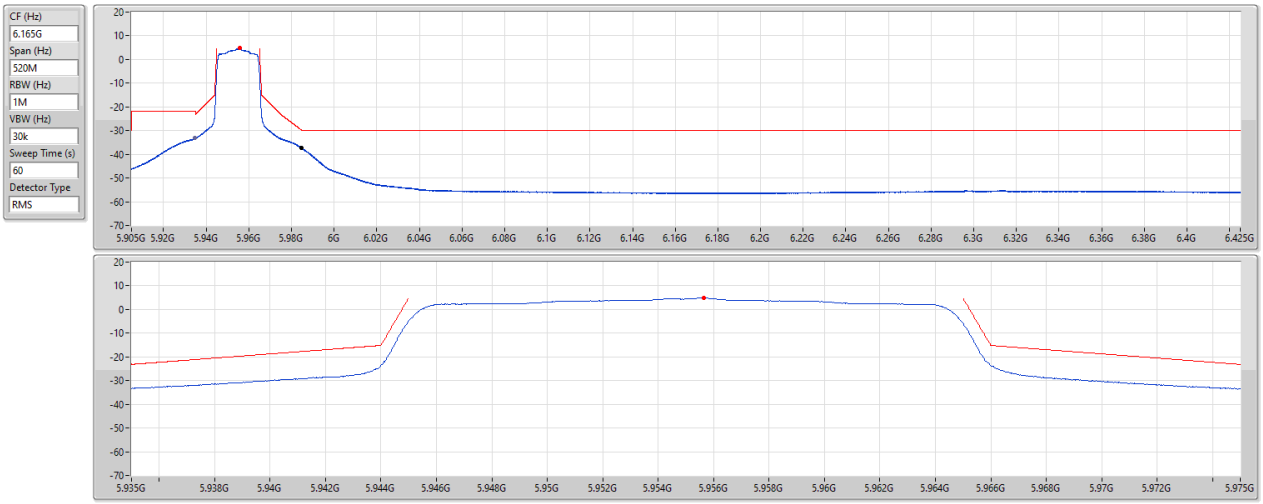
31/01/2026



Ref(Hz)	Ref(dBm)	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Range
6.416373G	4.65	6.403997G	-25.95	-15.35	-10.60	1	In Sub-band
6.416373G	4.65	6.426019G	-25.88	-15.37	-10.51	1	OOB

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **MASK**

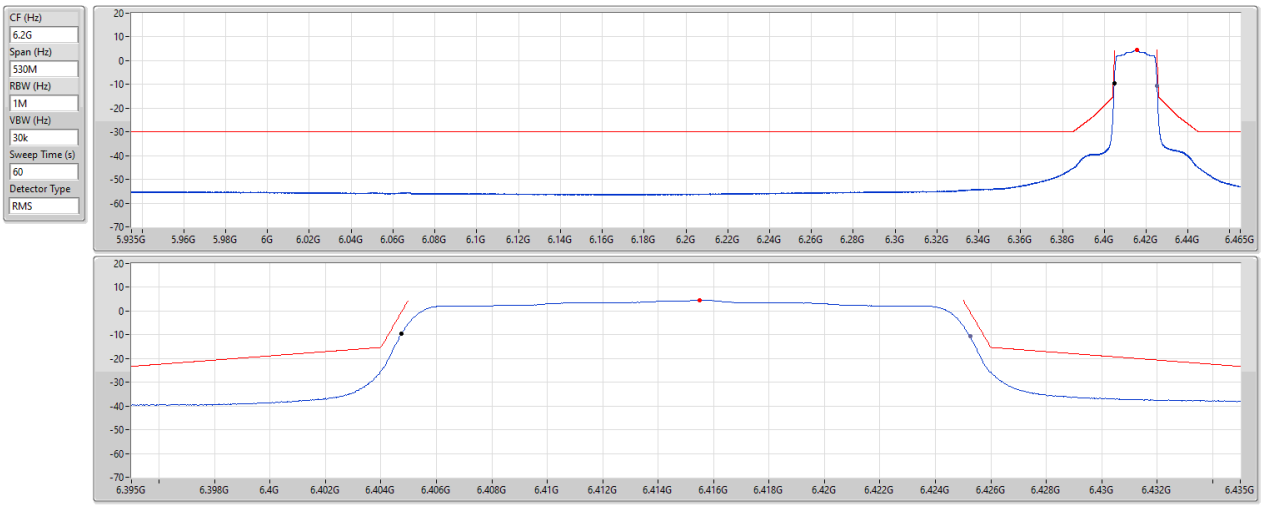
5955MHz_Tnom 31/01/2026



Ref(Hz)	Ref(dBm)	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Range
5.955648G	4.83	5.984872G	-37.28	-29.91	-7.37	1	In Sub-band
5.955648G	4.83	5.934796G	-33.20	-22.00	-11.20	1	OOB

5.945-6.425GHz_802.11ax HEW20_Nss1,(MCS0)_1TX **MASK**

6415MHz_Tnom 31/01/2026



Ref(Hz)	Ref(dBm)	Freq(Hz)	Level(dBm)	Limit(dBm)	Margin(dB)	Port	Range
6.415498G	4.69	6.404739G	-9.61	-0.53	-9.08	1	In Sub-band
6.415498G	4.69	6.42525G	-10.61	-0.31	-10.30	1	OOB

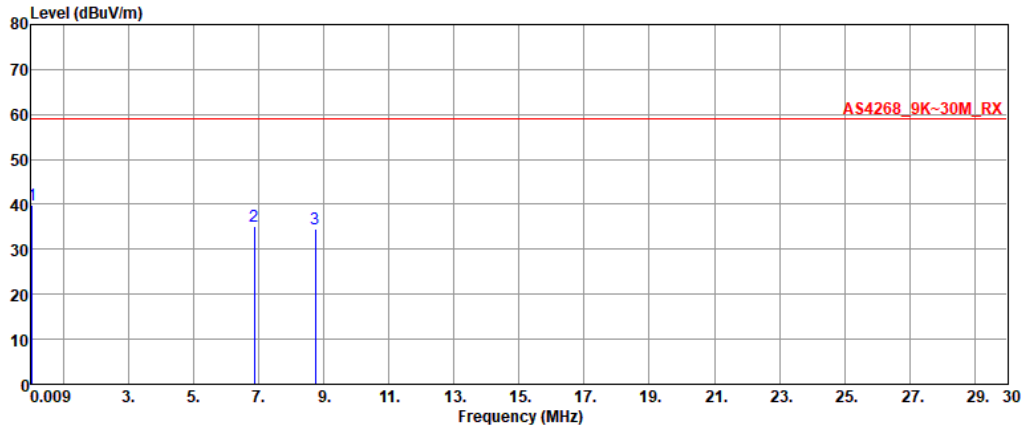
full RU configuration

Configuration 1: Chip Antenna_ANT1608LL14R2460A

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

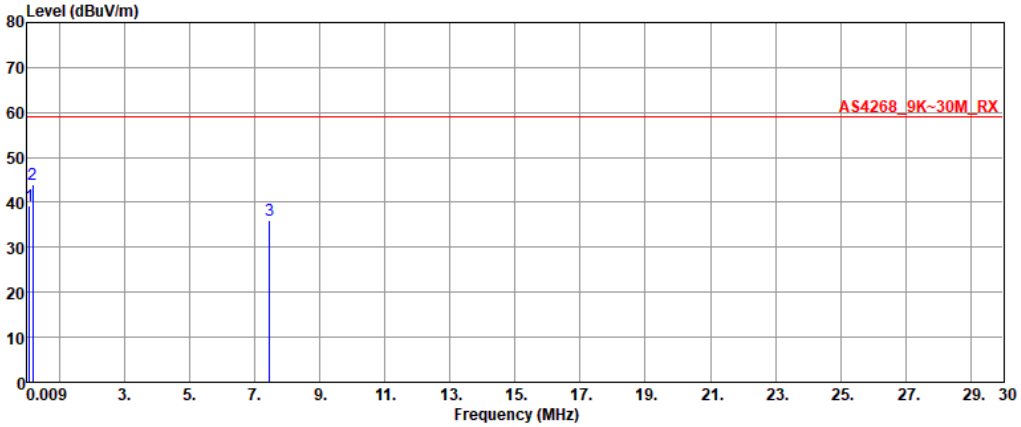


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.83	59.00	-19.17	19.82	20.01
2	6.86	35.23	59.00	-23.77	20.81	14.42
3	8.74	34.56	59.00	-24.44	20.48	14.08

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

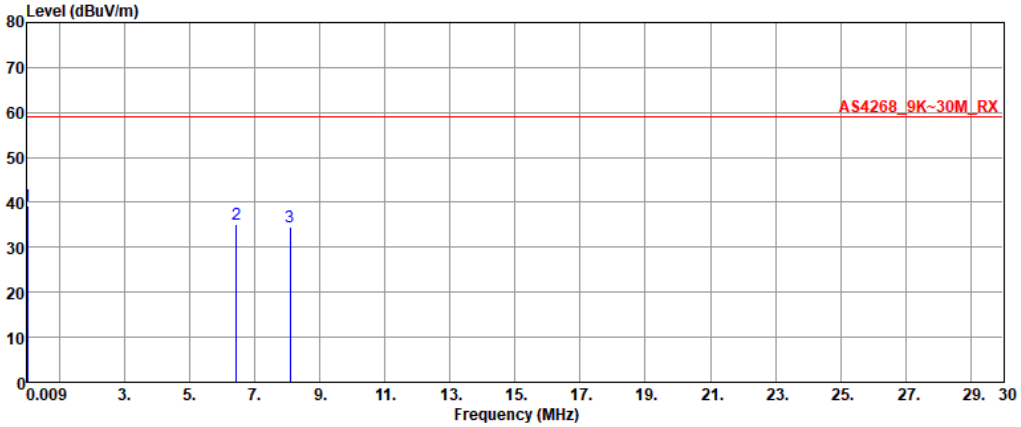


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.07	39.36	59.00	-19.64	19.02	20.34
2	0.17	43.98	59.00	-15.02	19.30	24.68
3	7.45	35.98	59.00	-23.02	20.63	15.35

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

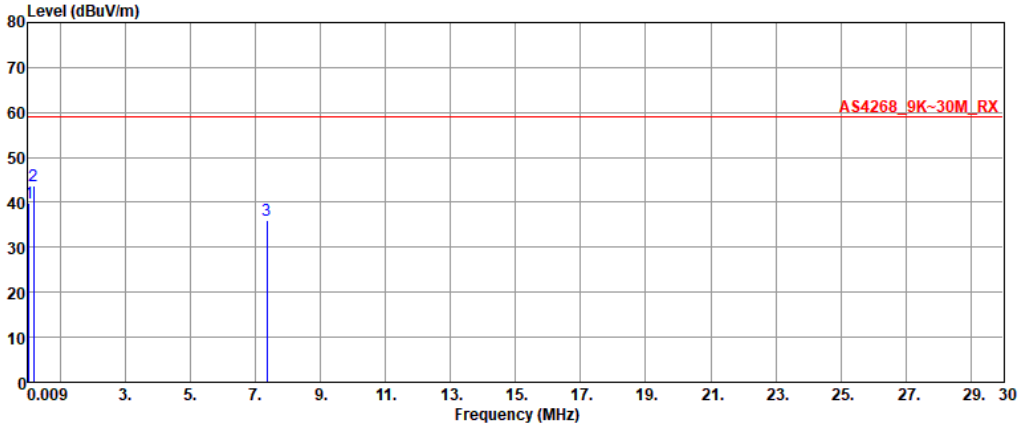


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.21	59.00	-19.79	19.56	19.65
2	6.43	35.06	59.00	-23.94	20.93	14.13
3	8.08	34.40	59.00	-24.60	20.48	13.92

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.03	39.92	59.00	-19.08	19.74	20.18
2	0.17	43.71	59.00	-15.29	19.26	24.45
3	7.35	35.89	59.00	-23.11	20.66	15.23

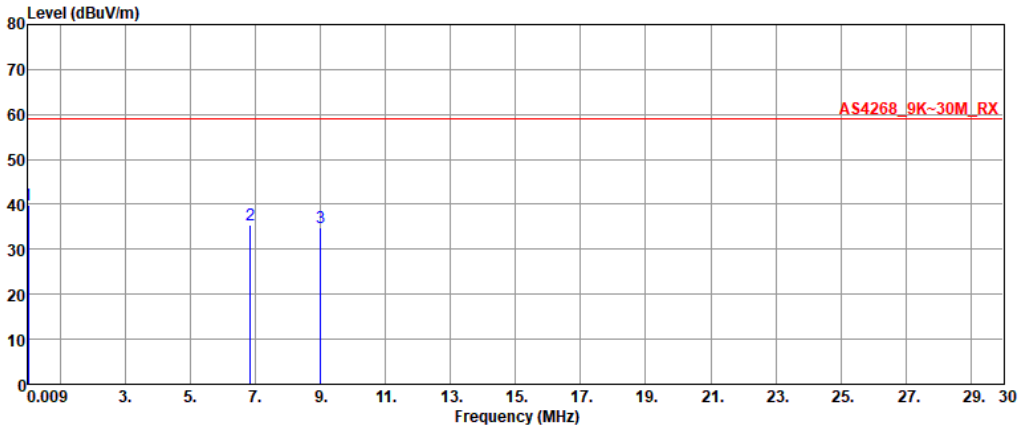
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 2: Dipole 6E_TWX-100BRS3B

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

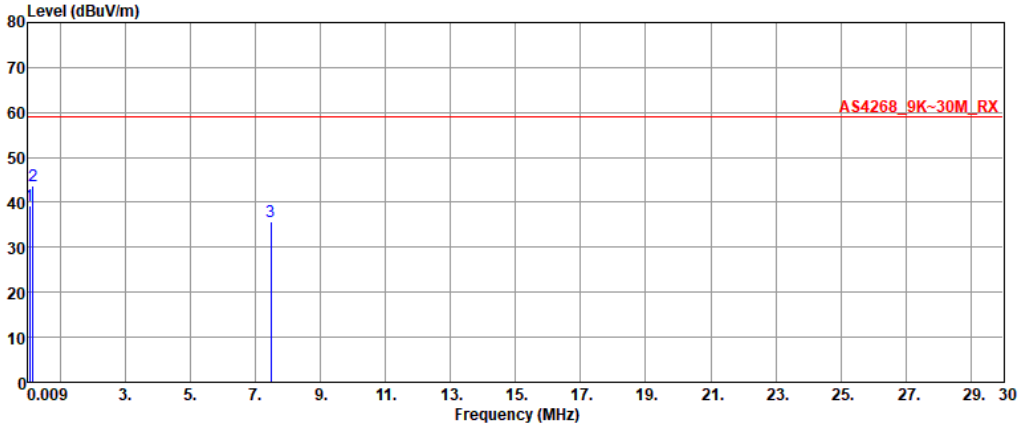


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.01	39.81	59.00	-19.19	19.11	20.70
2	6.85	35.44	59.00	-23.56	20.81	14.63
3	8.99	34.92	59.00	-24.08	20.48	14.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

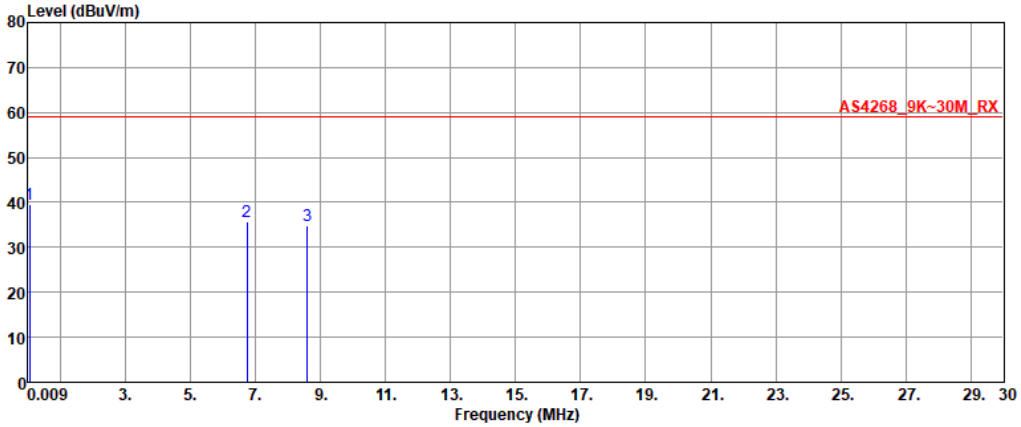


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.16	59.00	-19.84	19.30	19.86
2	0.15	43.68	59.00	-15.32	19.16	24.52
3	7.47	35.79	59.00	-23.21	20.63	15.16

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

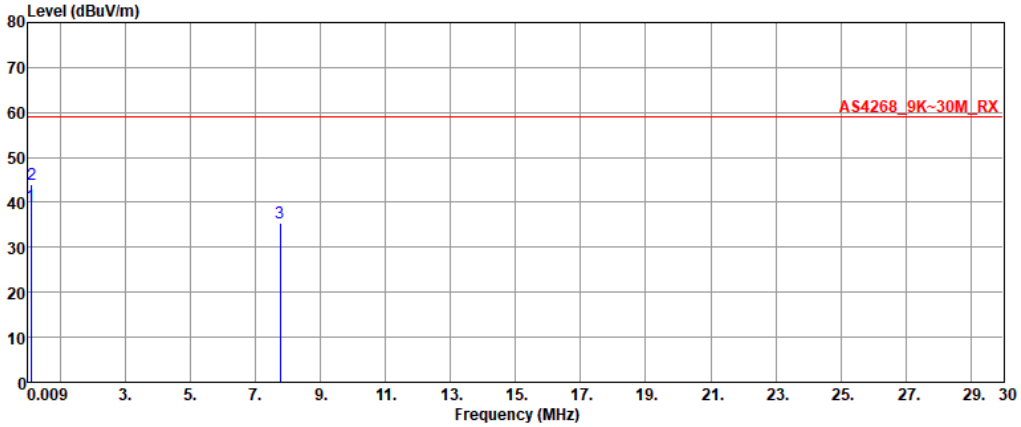


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.59	59.00	-19.41	19.85	19.74
2	6.75	35.81	59.00	-23.19	20.83	14.98
3	8.60	34.94	59.00	-24.06	20.48	14.46

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.10	39.13	59.00	-19.87	18.72	20.41
2	0.10	43.86	59.00	-15.14	18.69	25.17
3	7.77	35.36	59.00	-23.64	20.54	14.82

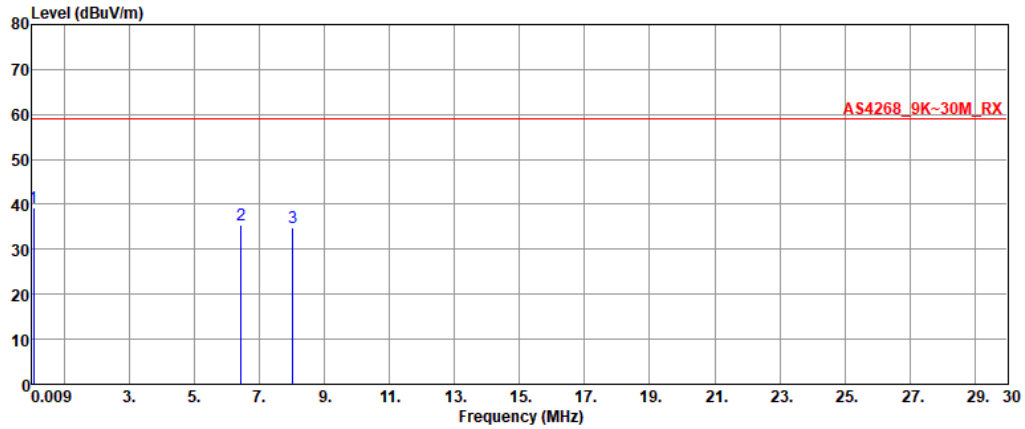
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 3: FlexMIMO 6E_EFD2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

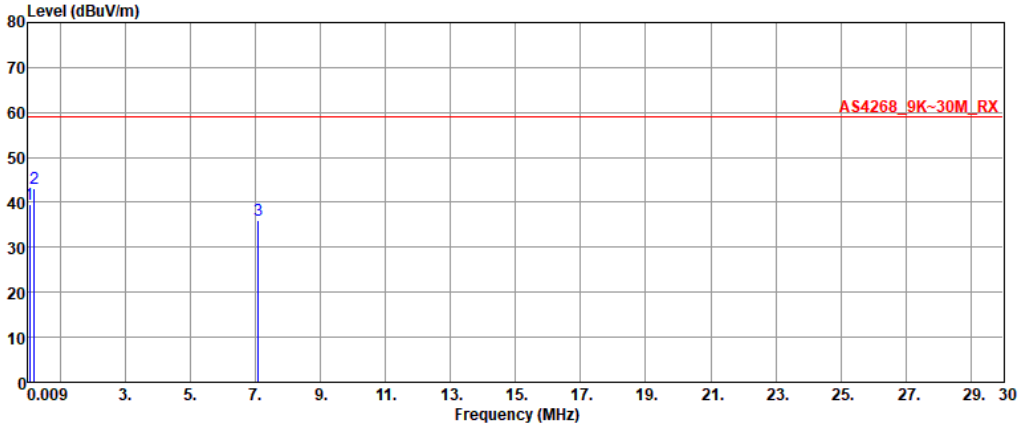


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.18	59.00	-19.82	19.75	19.43
2	6.44	35.31	59.00	-23.69	20.92	14.39
3	8.02	34.87	59.00	-24.13	20.48	14.39

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

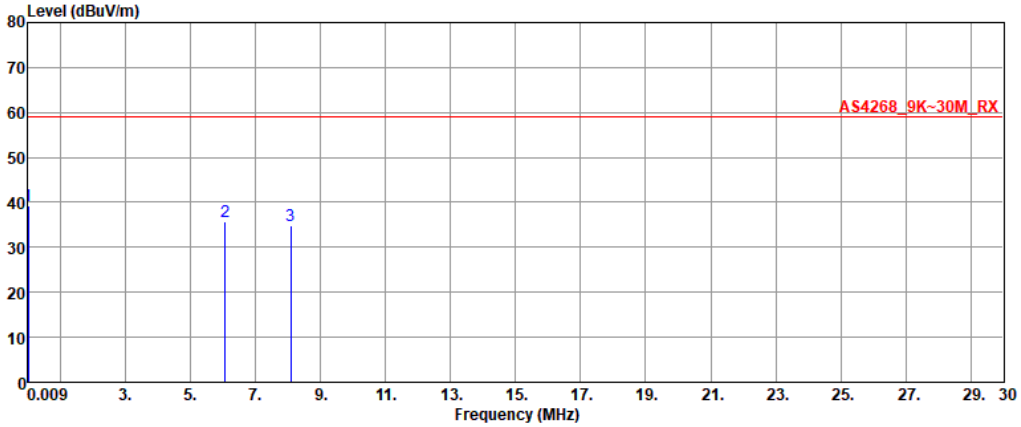


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.41	59.00	-19.59	19.88	19.53
2	0.19	43.03	59.00	-15.97	19.42	23.61
3	7.09	35.91	59.00	-23.09	20.74	15.17

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

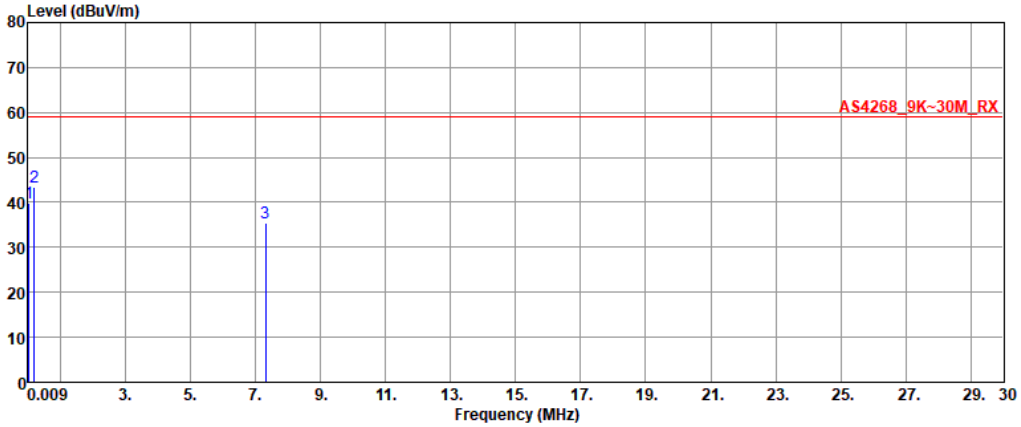


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.41	59.00	-19.59	19.82	19.59
2	6.06	35.71	59.00	-23.29	21.04	14.67
3	8.09	34.91	59.00	-24.09	20.48	14.43

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.03	39.82	59.00	-19.18	19.83	19.99
2	0.19	43.48	59.00	-15.52	19.42	24.06
3	7.31	35.57	59.00	-23.43	20.67	14.90

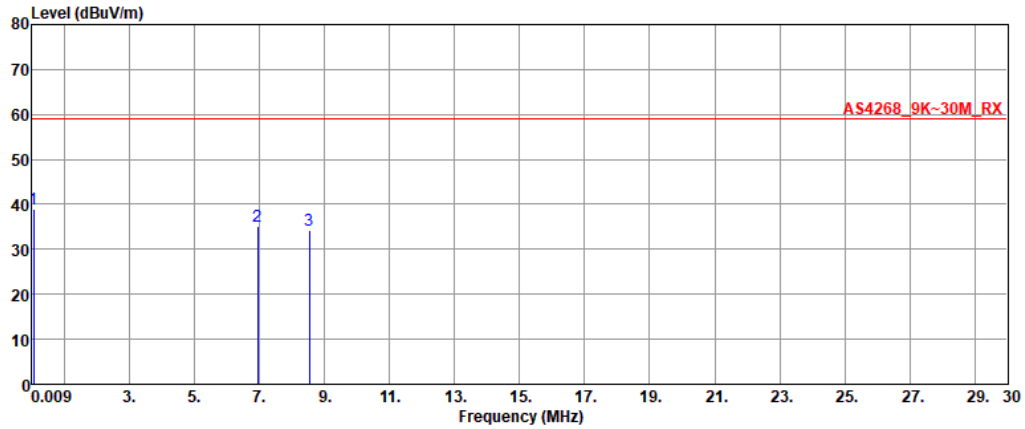
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 4: FlexPIFA 6E_EFB2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

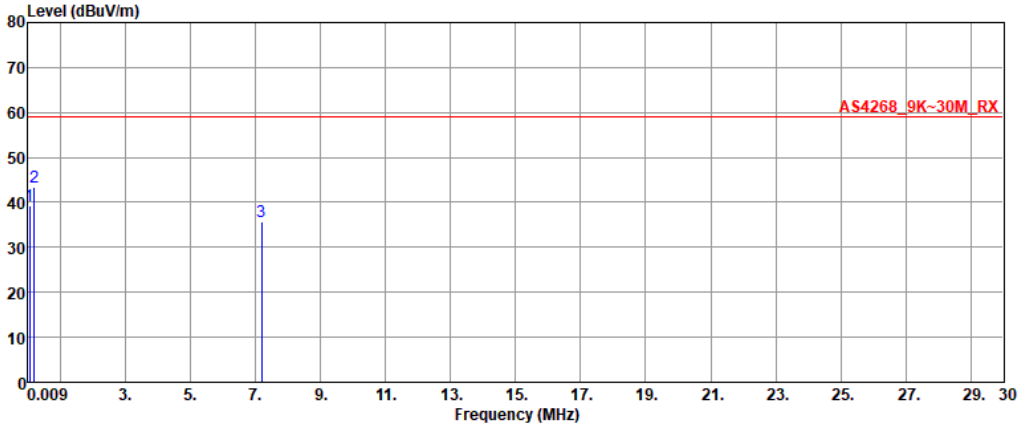


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.11	59.00	-19.89	19.92	19.19
2	6.95	35.09	59.00	-23.91	20.78	14.31
3	8.54	34.35	59.00	-24.65	20.48	13.87

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

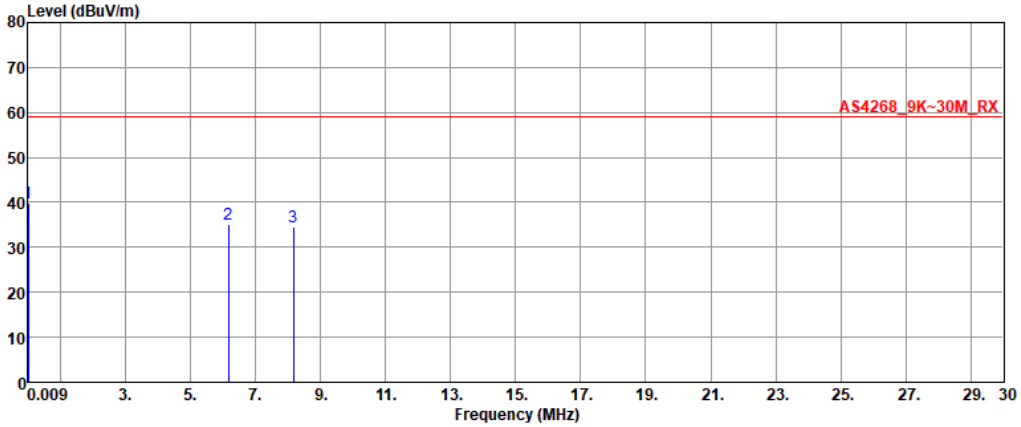


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.05	39.32	59.00	-19.68	19.91	19.41
2	0.19	43.41	59.00	-15.59	19.38	24.03
3	7.18	35.67	59.00	-23.33	20.71	14.96

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

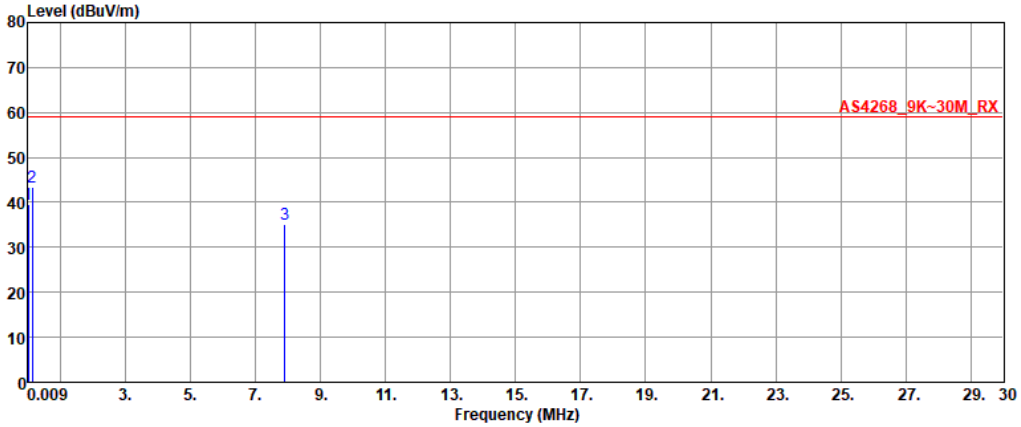


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.76	59.00	-19.24	19.35	20.41
2	6.18	35.08	59.00	-23.92	21.00	14.08
3	8.17	34.44	59.00	-24.56	20.48	13.96

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.01	39.69	59.00	-19.31	18.87	20.82
2	0.13	43.39	59.00	-15.61	18.91	24.48
3	7.91	35.07	59.00	-23.93	20.50	14.57

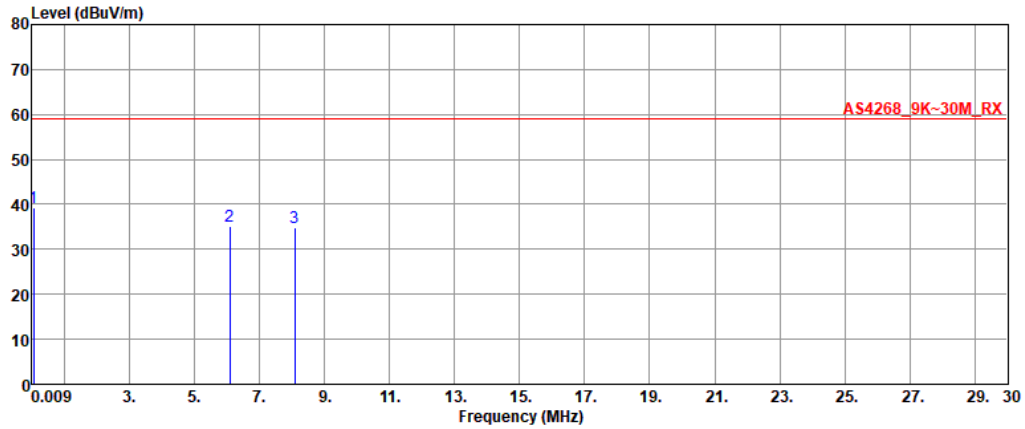
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 5: FlexPIFA Dual Band_001-0021

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

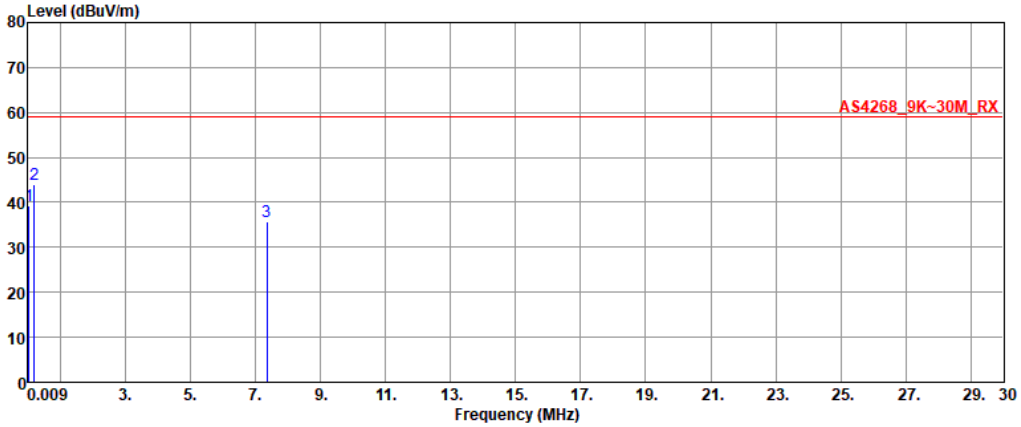


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.27	59.00	-19.73	19.17	20.10
2	6.08	35.12	59.00	-23.88	21.04	14.08
3	8.08	34.83	59.00	-24.17	20.48	14.35

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

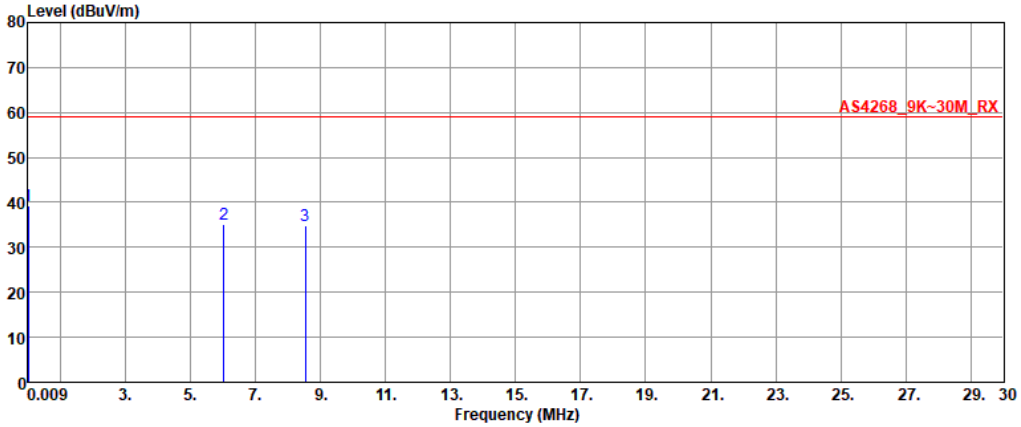


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.15	59.00	-19.85	19.82	19.33
2	0.20	43.91	59.00	-15.09	19.44	24.47
3	7.35	35.84	59.00	-23.16	20.66	15.18

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

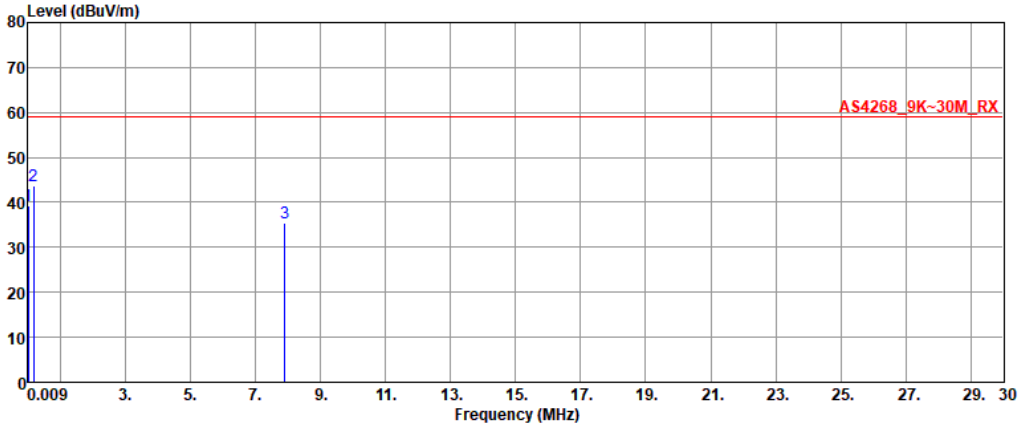


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.34	59.00	-19.66	19.57	19.77
2	6.02	35.13	59.00	-23.87	21.05	14.08
3	8.54	34.92	59.00	-24.08	20.48	14.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.18	59.00	-19.82	19.52	19.66
2	0.17	43.65	59.00	-15.35	19.27	24.38
3	7.91	35.57	59.00	-23.43	20.50	15.07

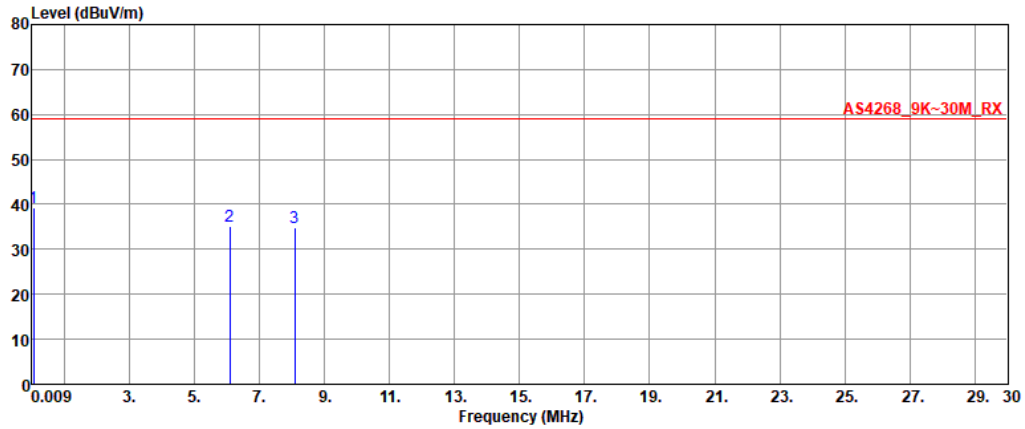
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 6: FlexPIFA Dual Band_EFB2455A3S-15MH4L

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

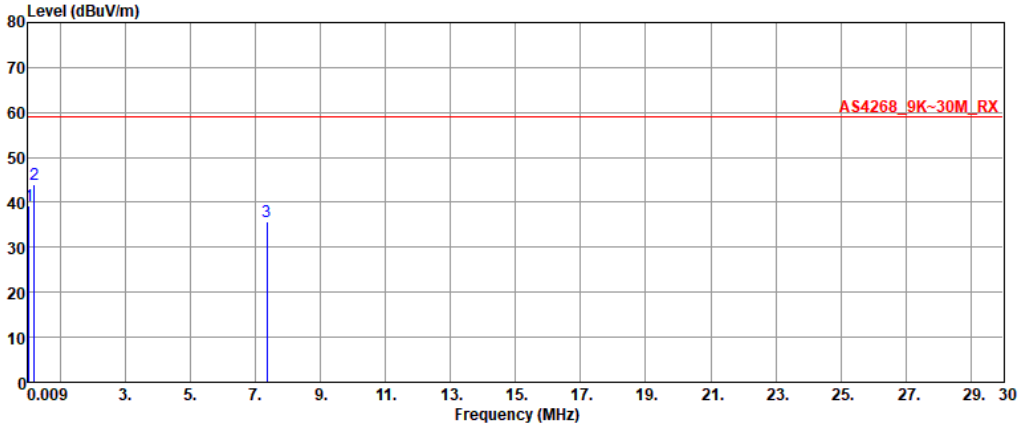


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.06	39.27	59.00	-19.73	19.17	20.10
2	6.08	35.12	59.00	-23.88	21.04	14.08
3	8.08	34.83	59.00	-24.17	20.48	14.35

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

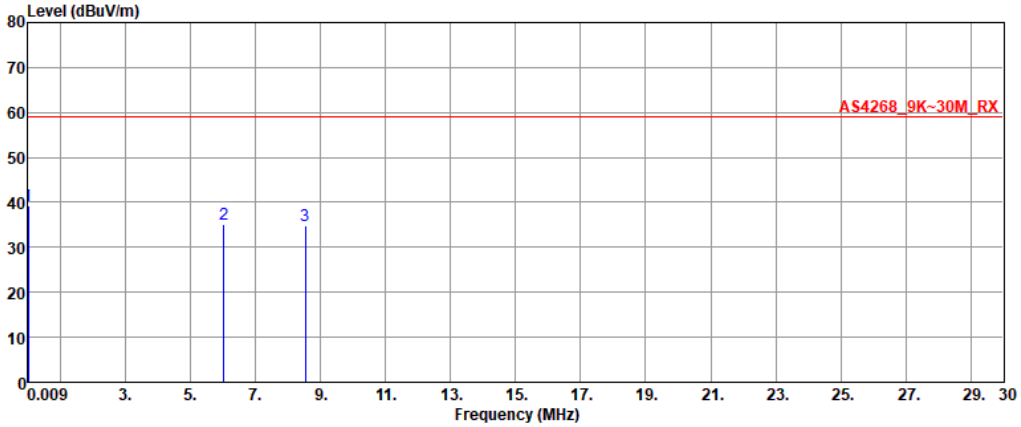


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.15	59.00	-19.85	19.82	19.33
2	0.20	43.91	59.00	-15.09	19.44	24.47
3	7.35	35.84	59.00	-23.16	20.66	15.18

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	**Test Freq. (MHz)**	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

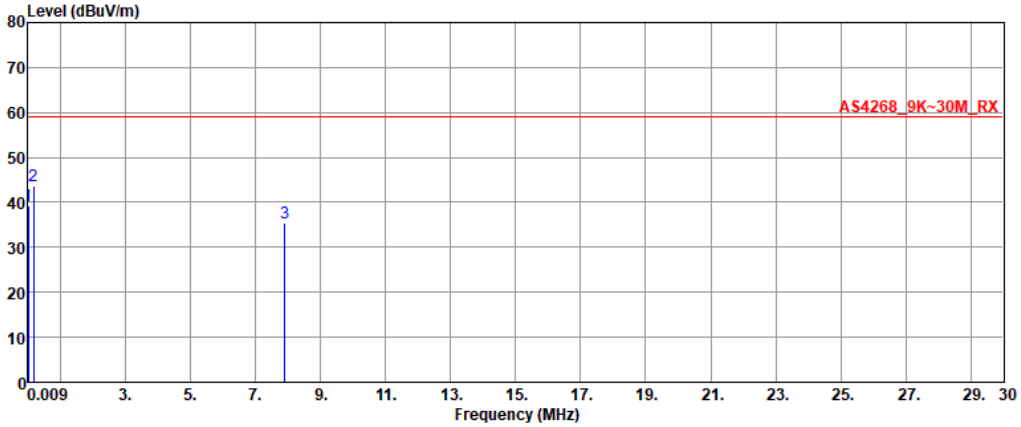


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.34	59.00	-19.66	19.57	19.77
2	6.02	35.13	59.00	-23.87	21.05	14.08
3	8.54	34.92	59.00	-24.08	20.48	14.44

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.18	59.00	-19.82	19.52	19.66
2	0.17	43.65	59.00	-15.35	19.27	24.38
3	7.91	35.57	59.00	-23.43	20.50	15.07

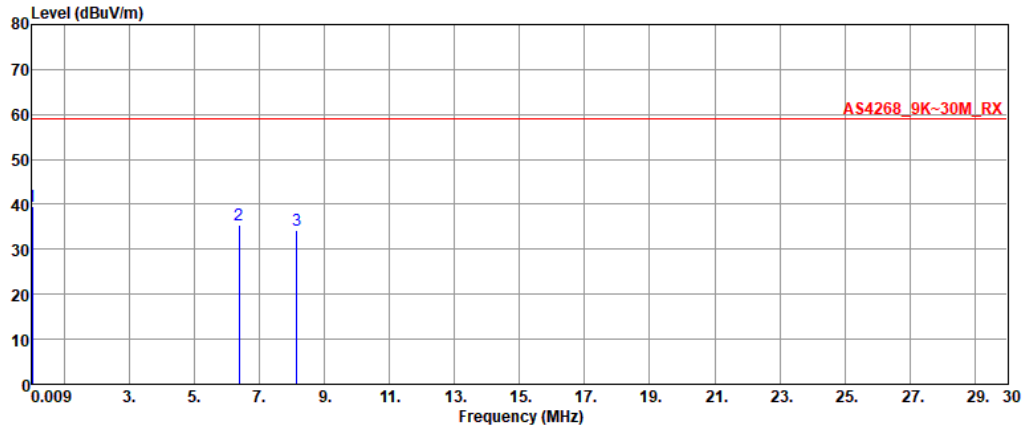
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Configuration 7: Mini NanoBlade Flex 6GHz_EMF2471A3S-10MH4L

Emissions (≤ 30MHz)

Modulation	11a	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

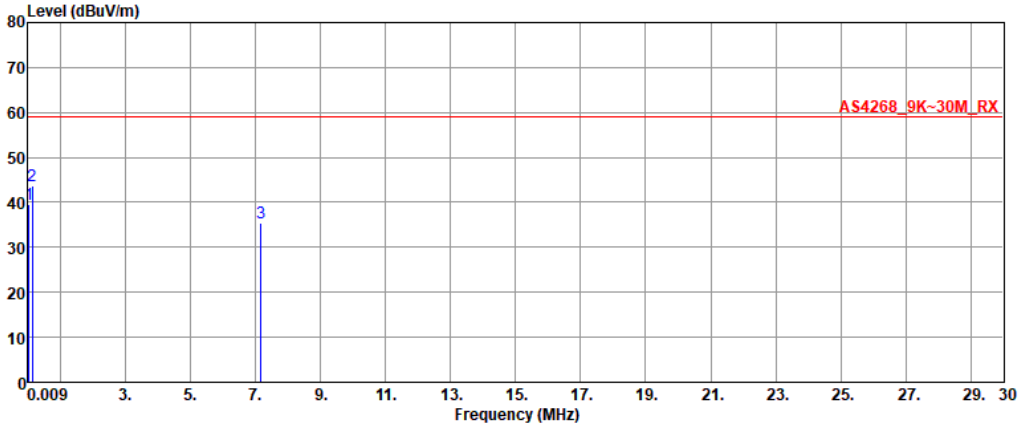


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.01	39.43	59.00	-19.57	18.58	20.85
2	6.37	35.38	59.00	-23.62	20.94	14.44
3	8.15	34.39	59.00	-24.61	20.48	13.91

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	11a	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

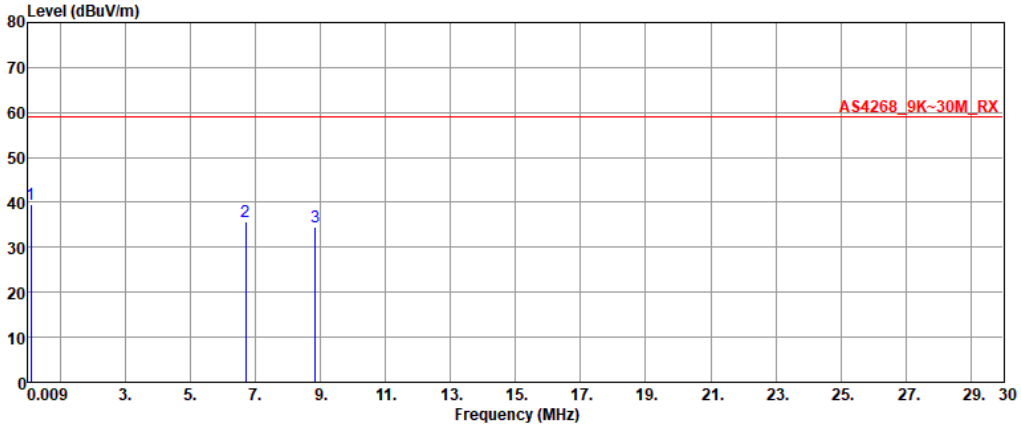


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.02	39.53	59.00	-19.47	20.02	19.51
2	0.13	43.62	59.00	-15.38	18.93	24.69
3	7.17	35.51	59.00	-23.49	20.72	14.79

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	5955
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65

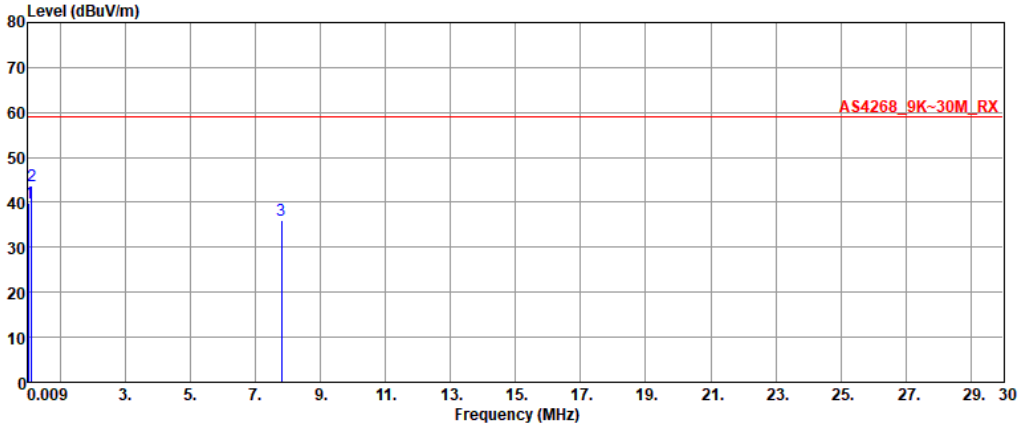


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.09	39.59	59.00	-19.41	19.01	20.58
2	6.69	35.66	59.00	-23.34	20.85	14.81
3	8.84	34.43	59.00	-24.57	20.48	13.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

Modulation	ax HE20_OFDMA	Test Freq. (MHz)	6415
Frequency	9kHz~30MHz		

Test By :Willy Lee Temperature:25 Humidity(%):65



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBuV/m	dBuV/m	dB	dB/m	dBuV
1	0.04	39.98	59.00	-19.02	19.84	20.14
2	0.11	43.65	59.00	-15.35	18.80	24.85
3	7.81	35.89	59.00	-23.11	20.52	15.37

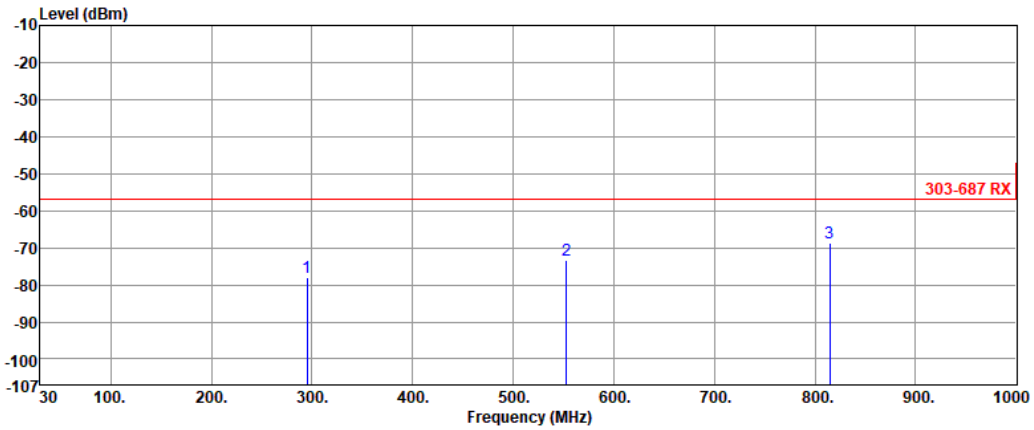
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB).
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm).

full RU configuration

Emissions (Below 1GHz)

Modulation	11a	Test Freq. (MHz)	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

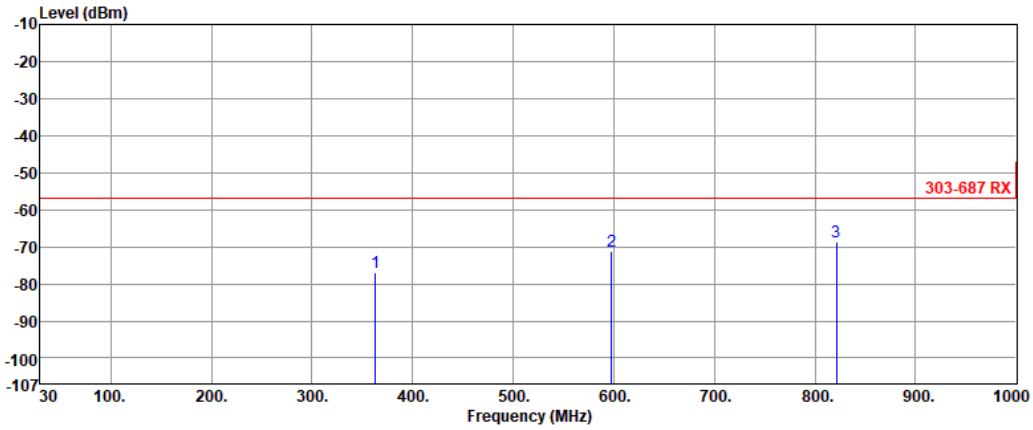


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	294.81	-78.06	-57.00	-21.06	-2.42	-75.64
2	552.83	-73.18	-57.00	-16.18	3.75	-76.93
3	814.73	-68.54	-57.00	-11.54	8.27	-76.81

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

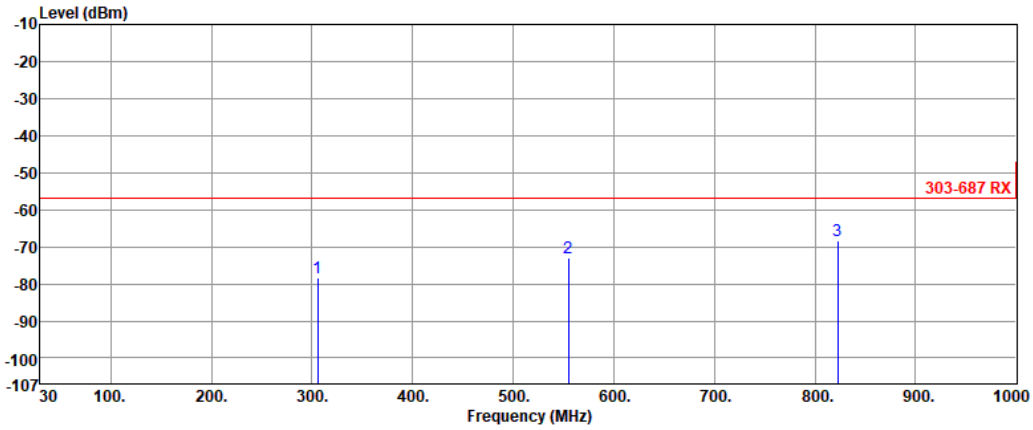


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	362.71	-76.79	-57.00	-19.79	-0.61	-76.18
2	597.45	-71.31	-57.00	-14.31	5.01	-76.32
3	821.52	-68.58	-57.00	-11.58	8.79	-77.37

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

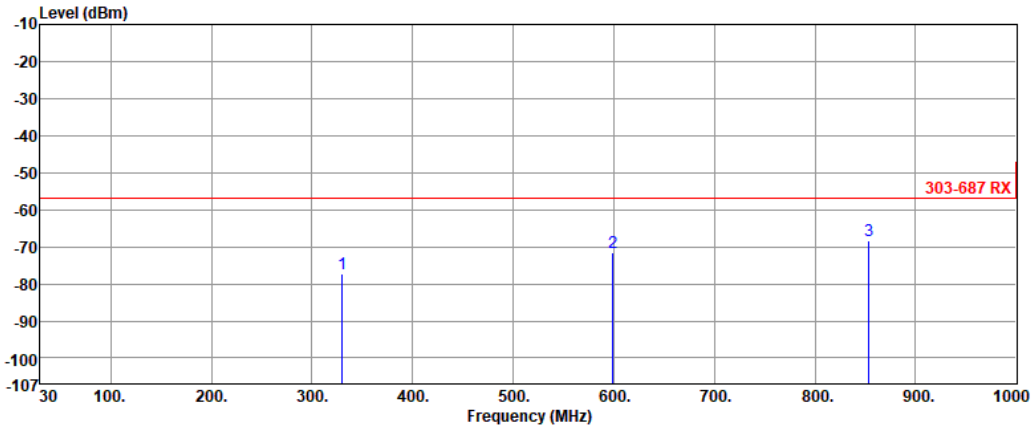


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	305.48	-78.26	-57.00	-21.26	-2.25	-76.01
2	554.77	-73.02	-57.00	-16.02	3.77	-76.79
3	822.49	-68.43	-57.00	-11.43	8.52	-76.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

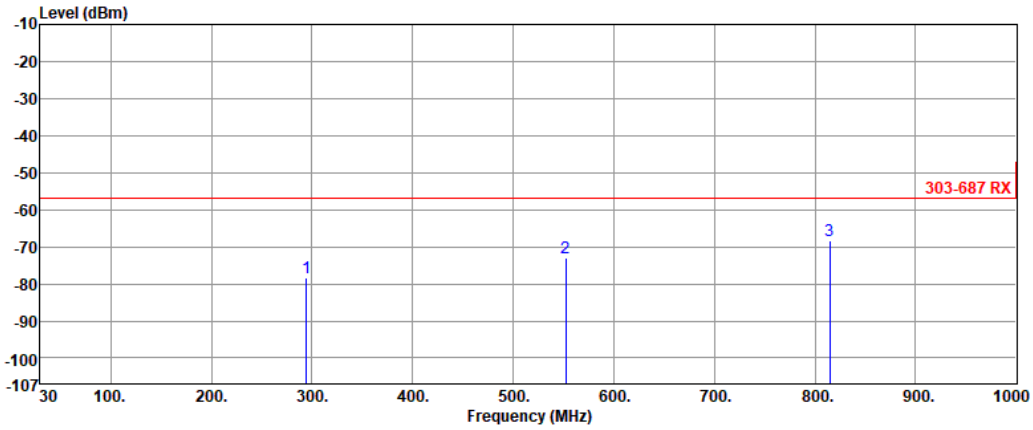


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	329.73	-77.20	-57.00	-20.20	-1.48	-75.72
2	599.39	-71.53	-57.00	-14.53	5.18	-76.71
3	853.53	-68.33	-57.00	-11.33	8.91	-77.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

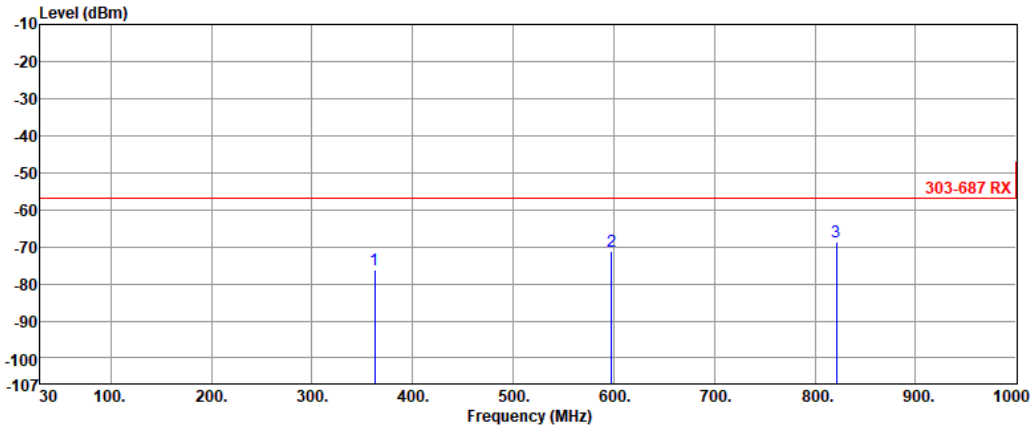


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	294.75	-78.33	-57.00	-21.33	-2.42	-75.91
2	552.31	-73.17	-57.00	-16.17	3.75	-76.92
3	814.46	-68.33	-57.00	-11.33	8.27	-76.60

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

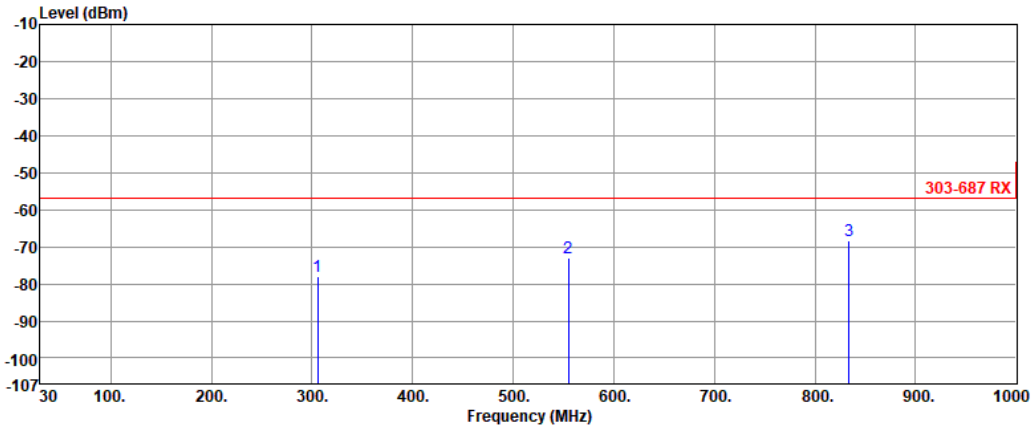


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	362.11	-76.23	-57.00	-19.23	-0.60	-75.63
2	597.66	-71.22	-57.00	-14.22	5.03	-76.25
3	821.55	-68.55	-57.00	-11.55	8.79	-77.34

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

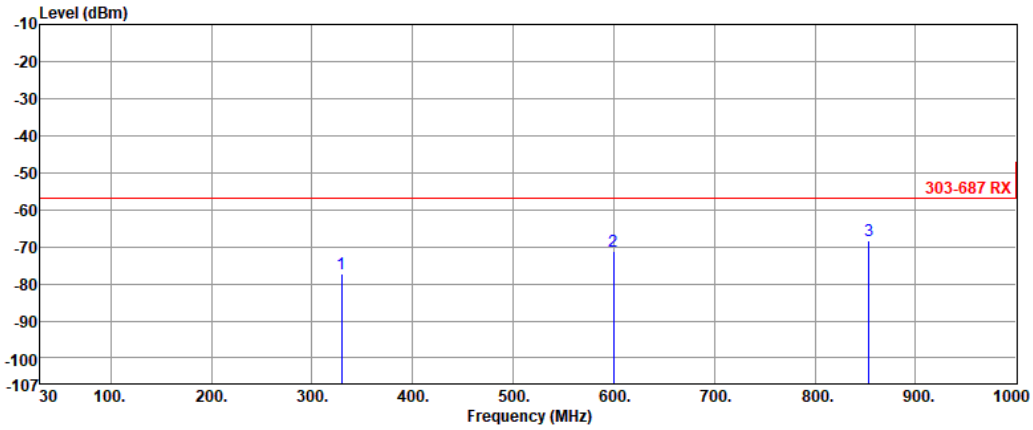


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	305.77	-78.11	-57.00	-21.11	-2.23	-75.88
2	554.66	-73.07	-57.00	-16.07	3.77	-76.84
3	833.51	-68.50	-57.00	-11.50	8.55	-77.05

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



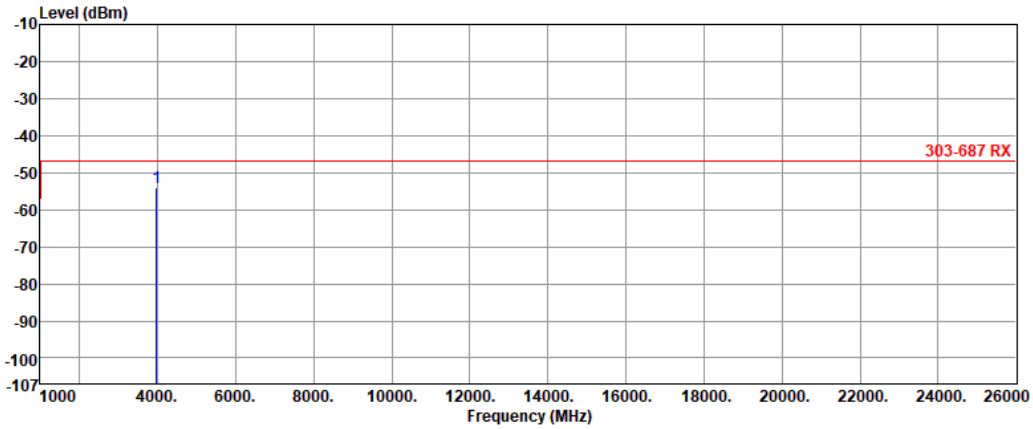
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	329.36	-77.25	-57.00	-20.25	-1.48	-75.77
2	599.41	-71.28	-57.00	-14.28	5.19	-76.47
3	853.66	-68.33	-57.00	-11.33	8.91	-77.24

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11a	Test Freq. (MHz)	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

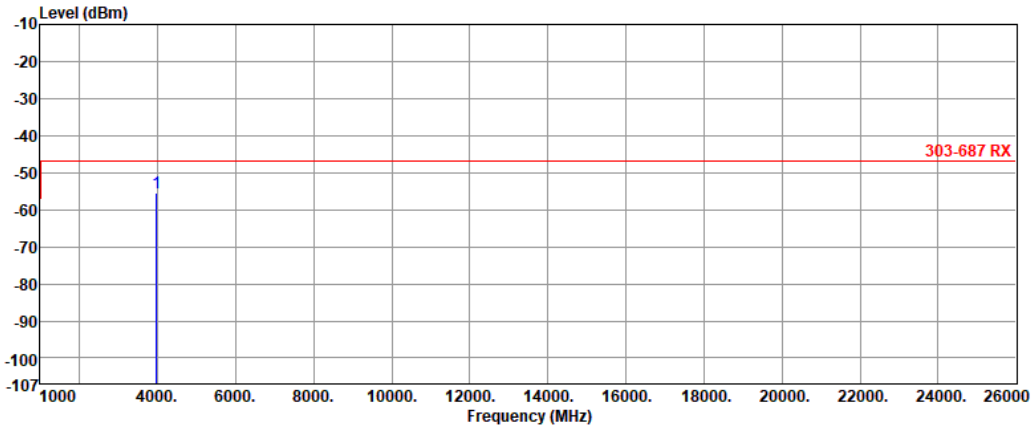


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3970.22	-54.08	-47.00	-7.08	8.42	-62.50

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

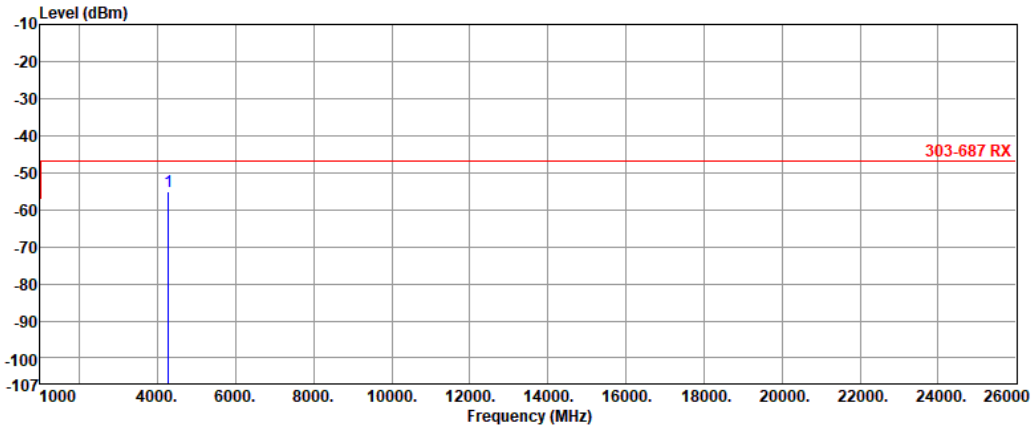


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3970.10	-55.29	-47.00	-8.29	8.00	-63.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

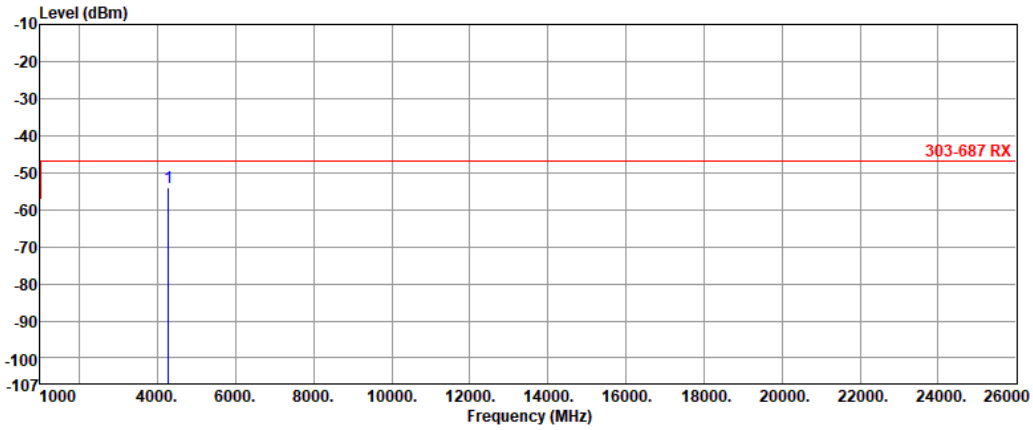


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4275.34	-54.96	-47.00	-7.96	8.66	-63.62

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a	Test Freq. (MHz)	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

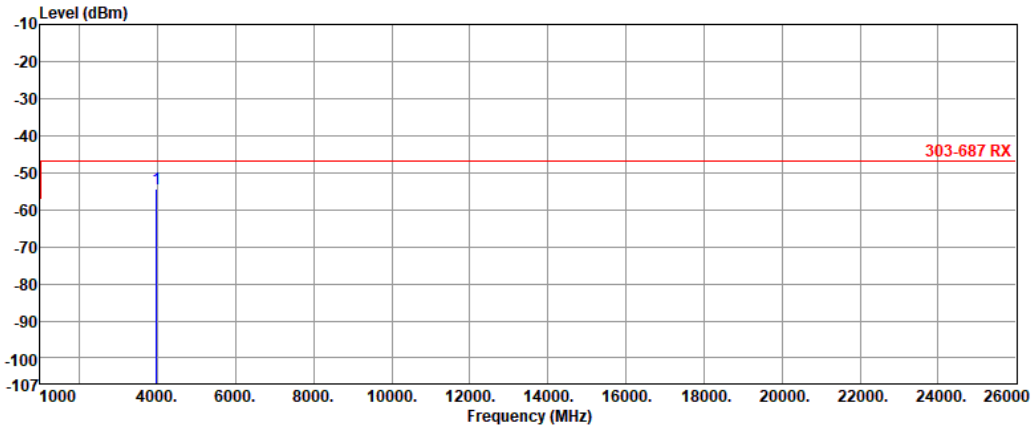


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4276.67	-53.89	-47.00	-6.89	9.32	-63.21

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5955
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

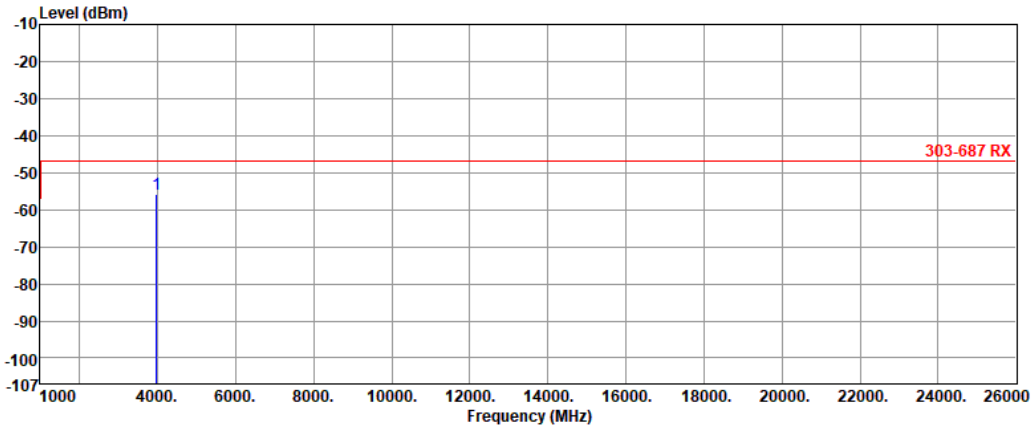


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3970.88	-54.33	-47.00	-7.33	8.42	-62.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	5955
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64

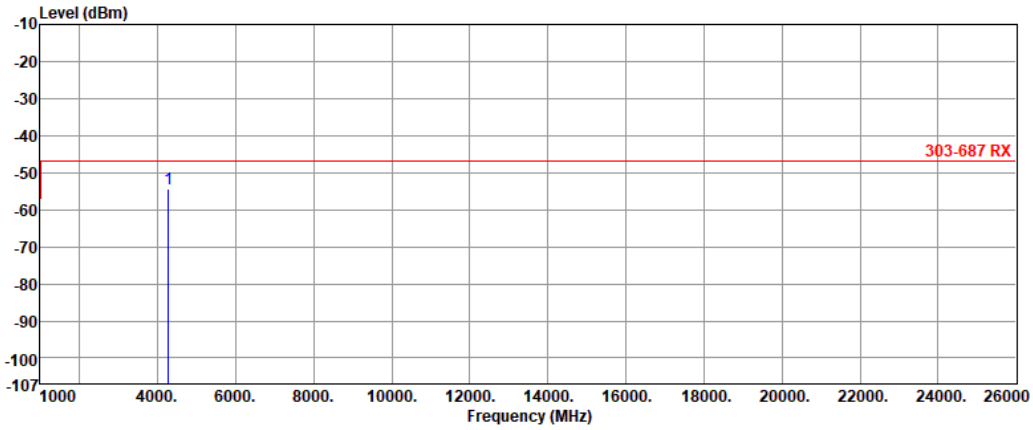


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3970.95	-55.94	-47.00	-8.94	8.01	-63.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	6415
Polarization	Horizontal		

Test By :Ryan Lee Temperature:23 Humidity(%):64

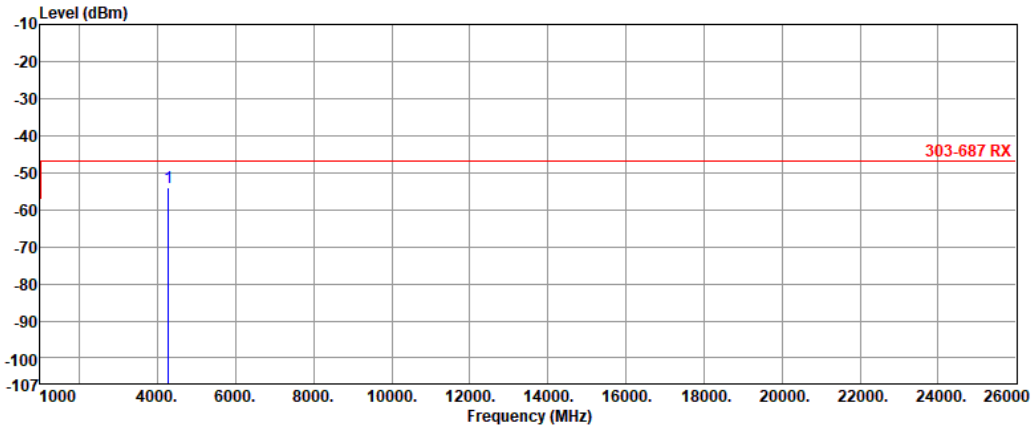


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4275.63	-54.54	-47.00	-7.54	8.66	-63.20

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA	Test Freq. (MHz)	6415
Polarization	Vertical		

Test By :Ryan Lee Temperature:23 Humidity(%):64



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4276.56	-53.89	-47.00	-6.89	9.32	-63.21

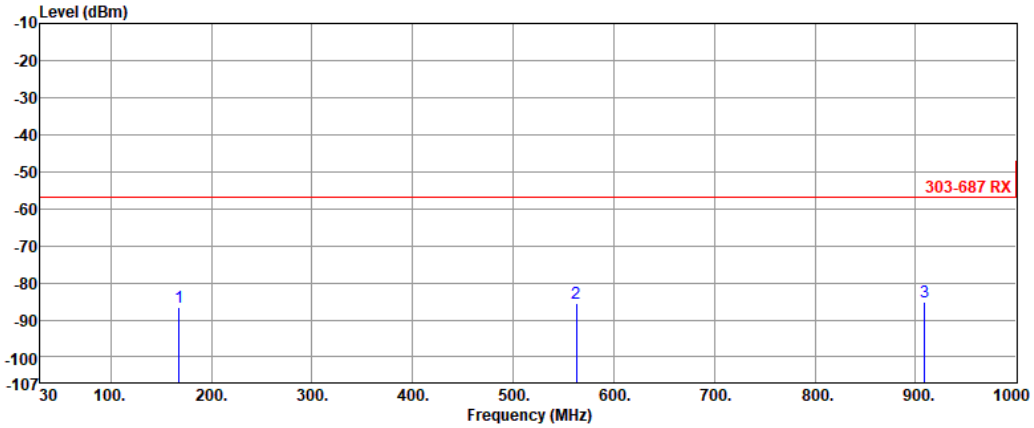
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

full RU configuration

Emissions (Below 1GHz)

Modulation	11a
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

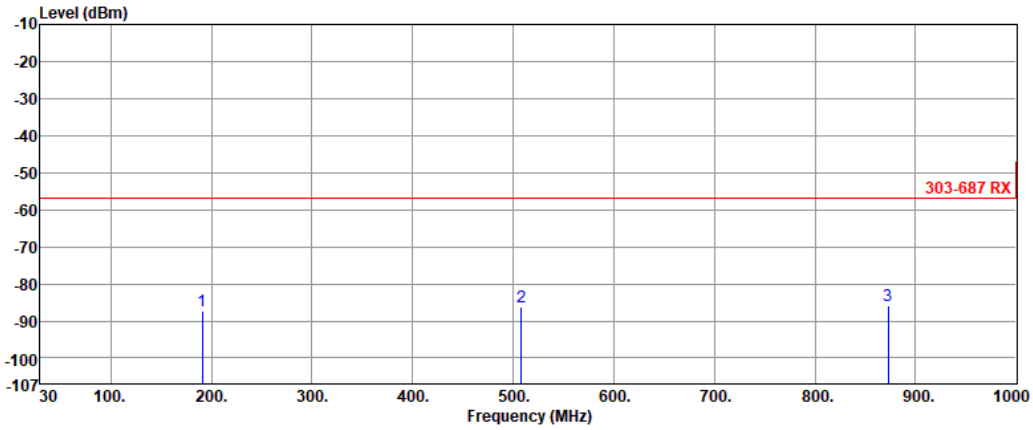


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	167.74	-86.76	-57.00	-29.76	0.00	-86.76
2	562.53	-85.49	-57.00	-28.49	0.00	-85.49
3	908.82	-85.13	-57.00	-28.13	0.00	-85.13

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64

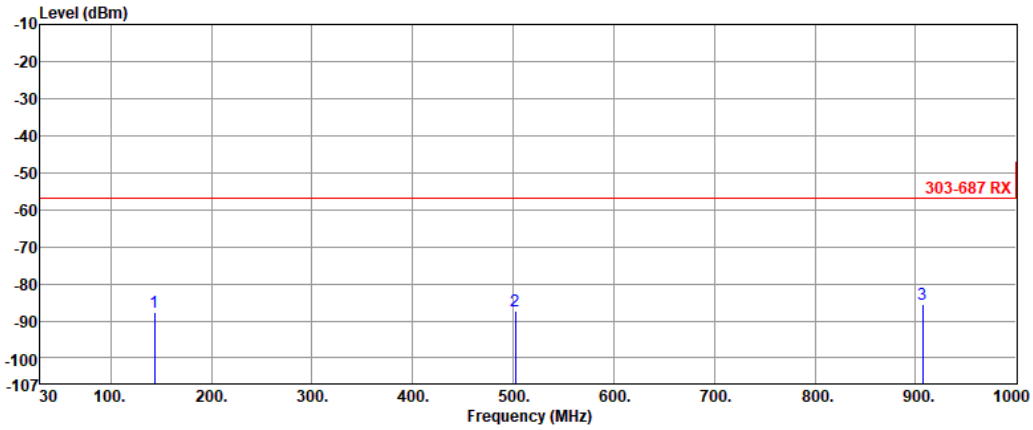


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	191.02	-87.47	-57.00	-30.47	0.00	-87.47
2	508.21	-86.40	-57.00	-29.40	0.00	-86.40
3	872.93	-85.97	-57.00	-28.97	0.00	-85.97

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

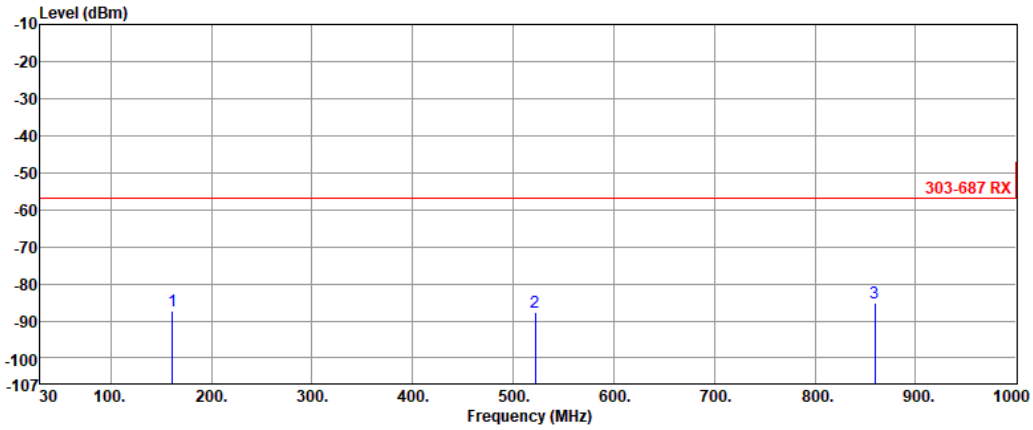


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	143.49	-87.66	-57.00	-30.66	0.00	-87.66
2	502.39	-87.42	-57.00	-30.42	0.00	-87.42
3	906.88	-85.48	-57.00	-28.48	0.00	-85.48

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



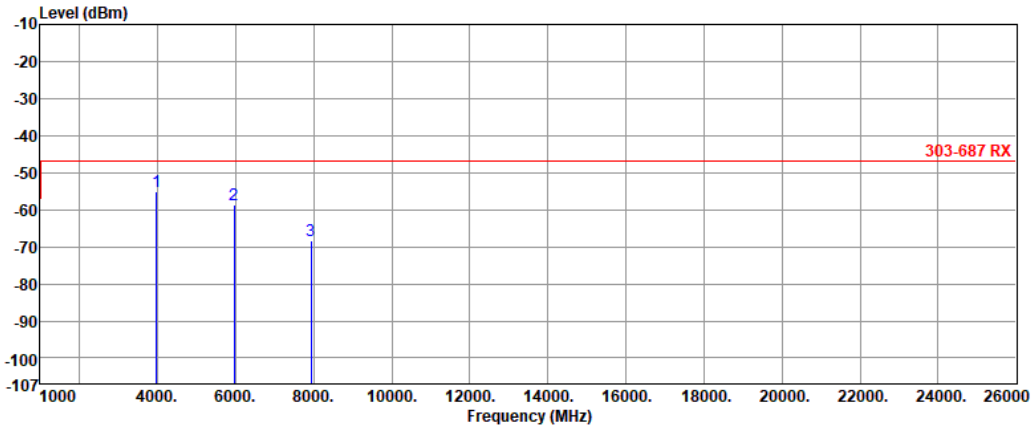
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	160.95	-87.47	-57.00	-30.47	0.00	-87.47
2	521.79	-87.65	-57.00	-30.65	0.00	-87.65
3	859.35	-85.26	-57.00	-28.26	0.00	-85.26

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Emissions (Above 1GHz)

Modulation	11a
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

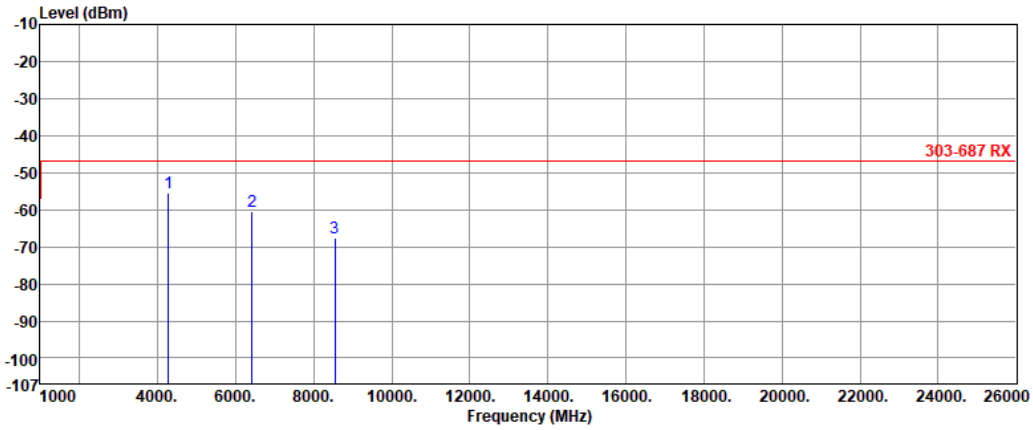


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3969.96	-55.13	-47.00	-8.13	0.00	-55.13
2	5955.06	-58.58	-47.00	-11.58	0.00	-58.58
3	7940.11	-68.40	-47.00	-21.40	0.00	-68.40

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11a
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64

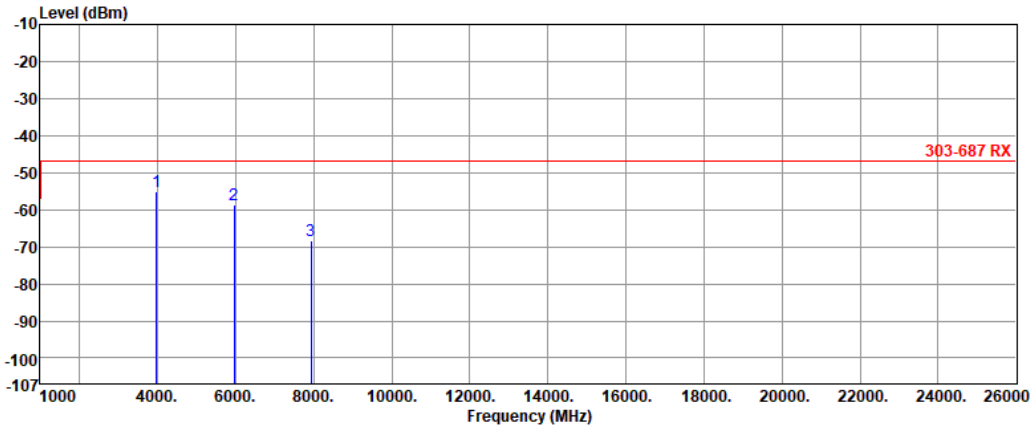


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4276.67	-55.57	-47.00	-8.57	0.00	-55.57
2	6414.92	-60.61	-47.00	-13.61	0.00	-60.61
3	8552.77	-67.75	-47.00	-20.75	0.00	-67.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	5955

Test By :Ryan Lee Temperature:23 Humidity(%):64

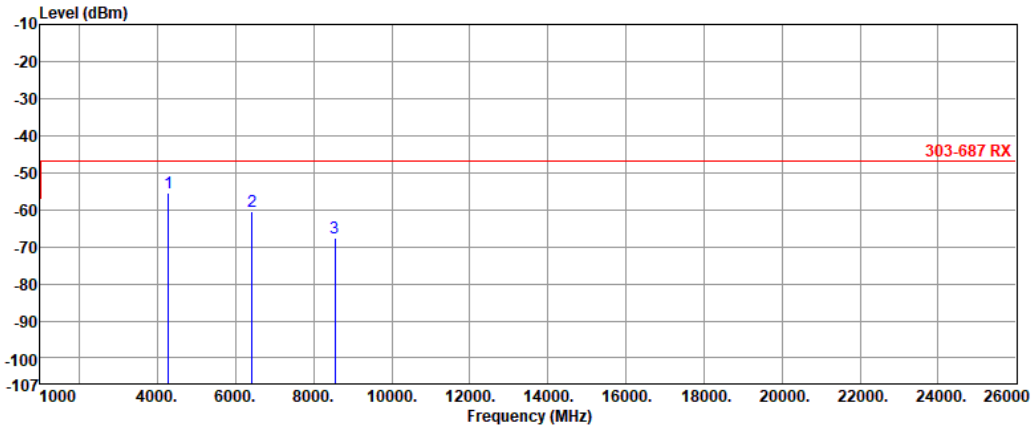


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	3969.96	-55.13	-47.00	-8.13	0.00	-55.13
2	5955.06	-58.58	-47.00	-11.58	0.00	-58.58
3	7940.11	-68.40	-47.00	-21.40	0.00	-68.40

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	ax HE20-OFDMA
Test Freq. (MHz)	6415

Test By :Ryan Lee Temperature:23 Humidity(%):64



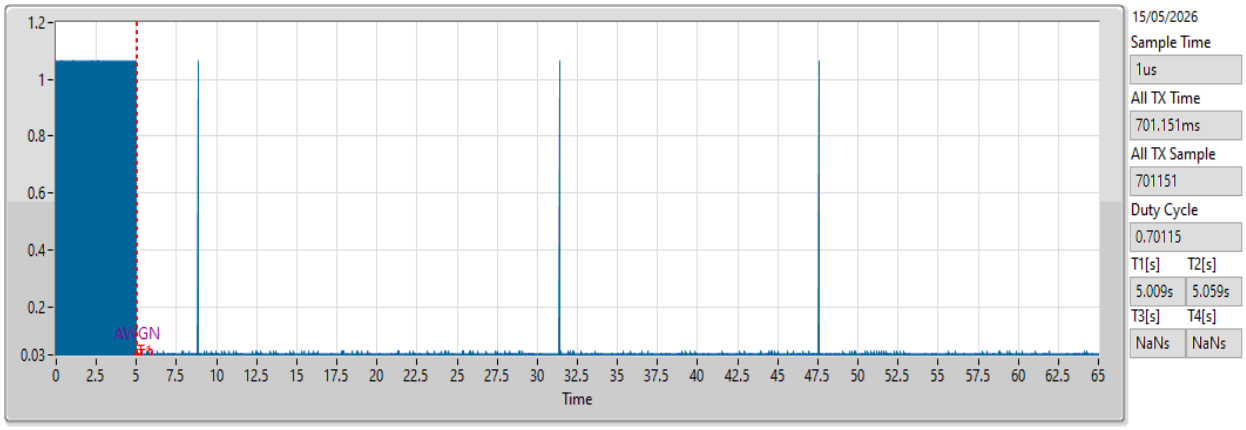
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4276.67	-55.57	-47.00	-8.57	0.00	-55.57
2	6414.92	-60.61	-47.00	-13.61	0.00	-60.61
3	8552.77	-67.75	-47.00	-20.75	0.00	-67.75

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

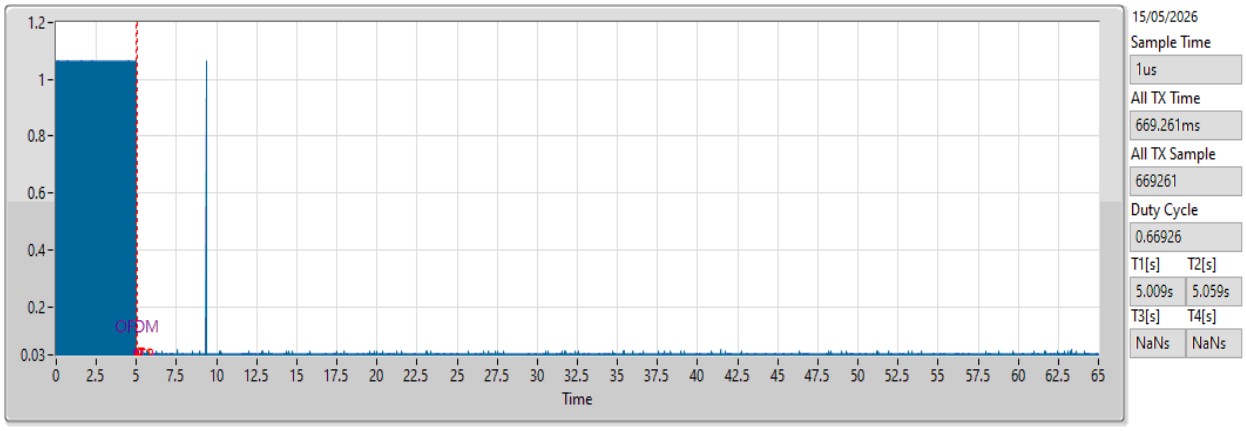
Test Result of Channel Occupancy times and Short Control Signalling Transmissions

Adaptivity Result						
Equipment / Device type	Load Based Equipment / Supervised Device					
Energy Detect Threshold Level (dBm)	-81.76					
Modulation Mode	**Freq. (MHz)**	**Interference Signal Frequency (MHz)**	**Interference Signal Type**	**Short Control Signalling Transmissions (ms)/period Numbers**	**Channel Occupancy Time (ms)**	**Adaptivity**
802.11ax (HE20)	5955	5955	AWGN	0.097 / 1	5.311	Pass
802.11ax (HE20)	5955	5955	OFDM	0.097 / 1		
802.11ax (HE20)	5955	5955	5G NR	0.097 / 1		
Limit				< 2.5 ms / 50	< 6ms	N/A

Adaptivity Result Plots
802.11ax (HE20) - 5955MHz (AWGN)



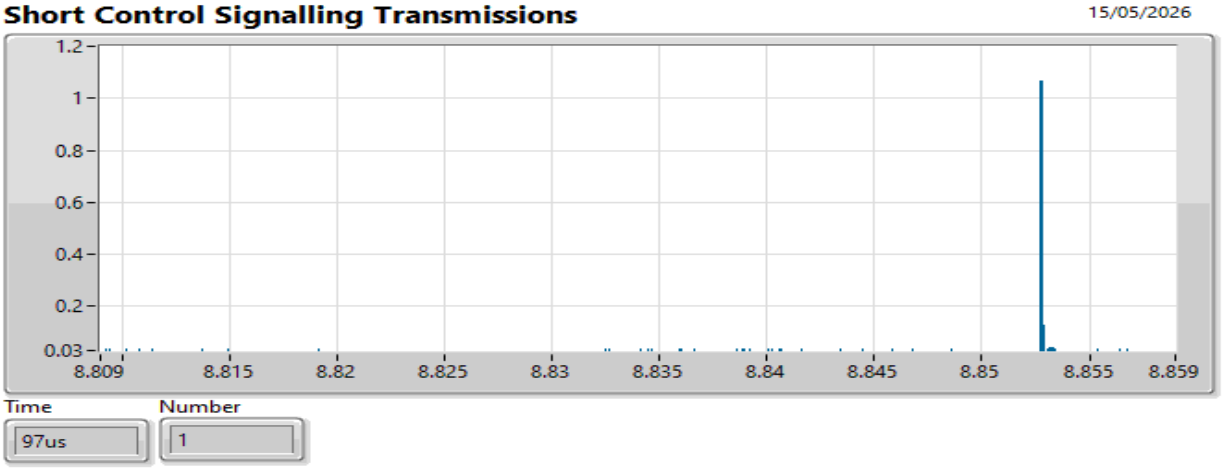
802.11ax (HE20) - 5955MHz (OFDM)



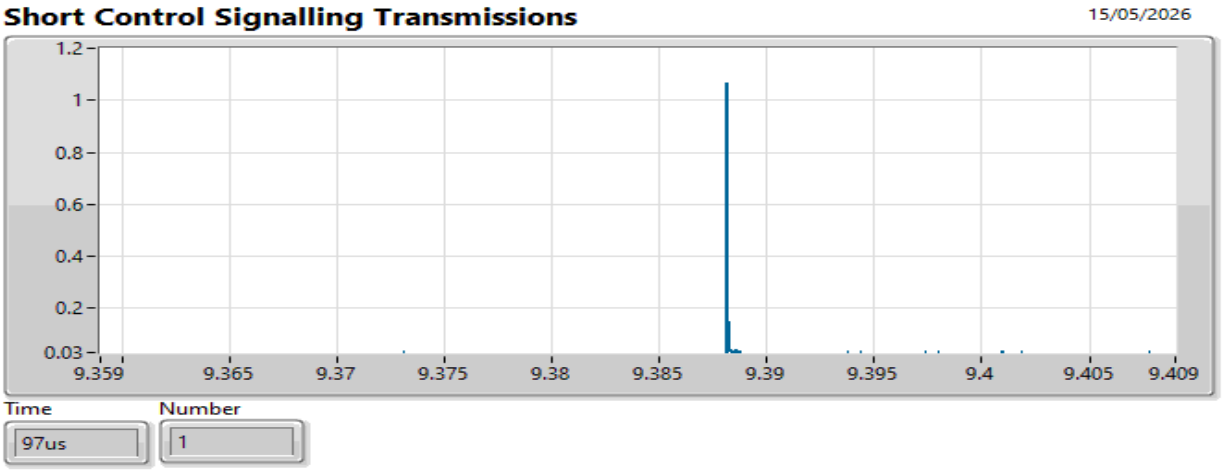
802.11ax (HE20) - 5955MHz (5G NR)

Short Control Signalling Transmissions Plots

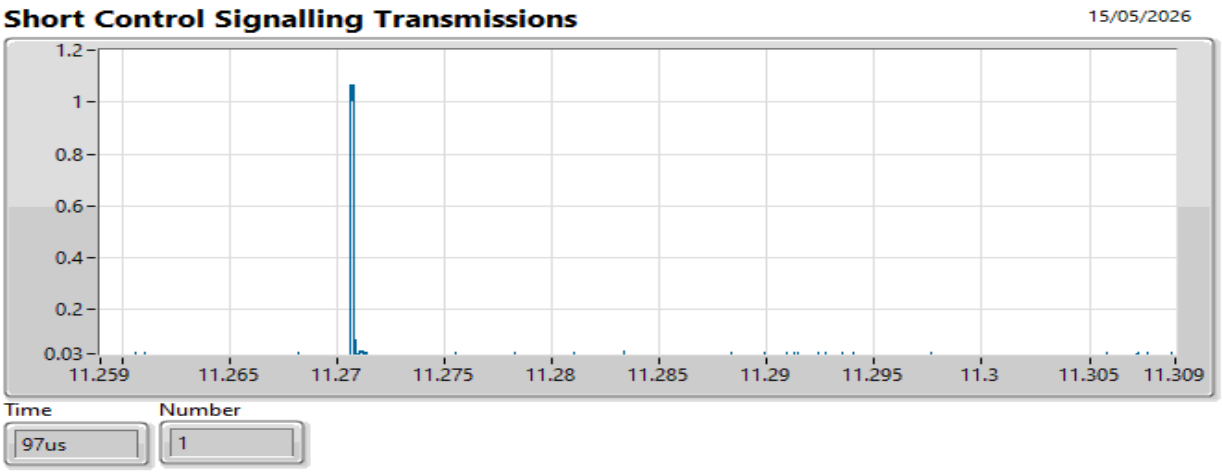
802.11ax (HE20) - 5955MHz (AWGN)



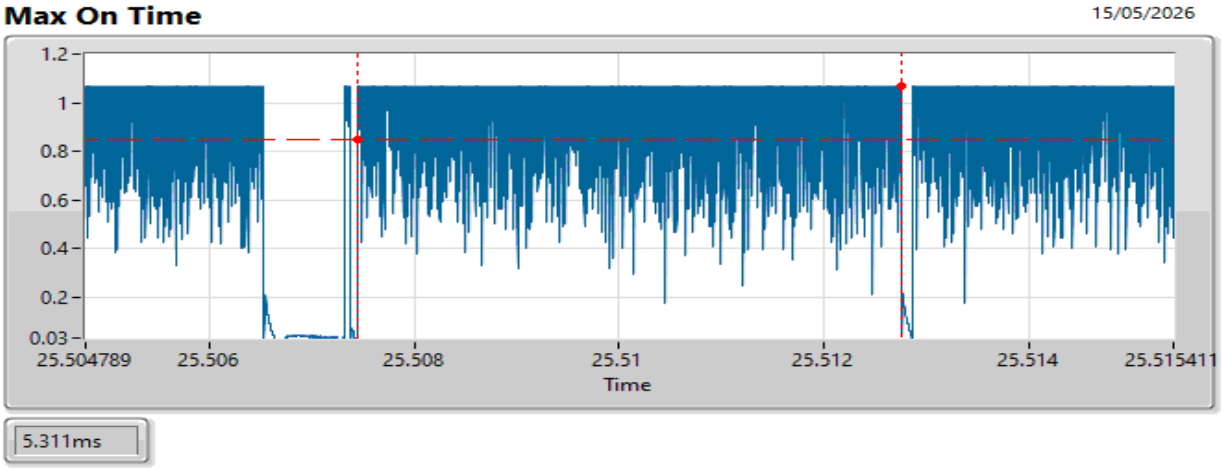
802.11ax (HE20) - 5955MHz (OFDM)



802.11ax (HE20) - 5955MHz (5G NR)



Channel Occupancy Time
802.11ax (HE20) - 5955MHz

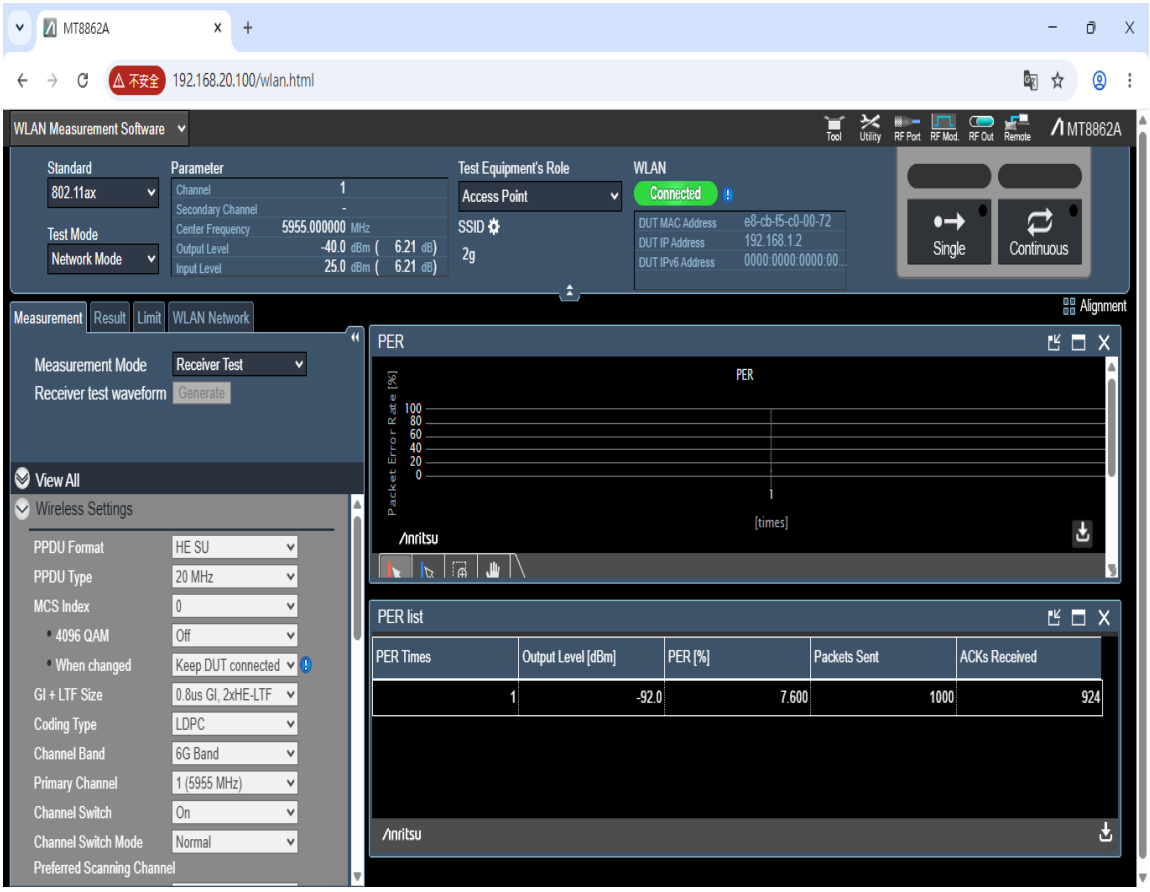


Idle Period probability evaluation

Priority Class	Class 2
Operating Type	Supervised Device
Test condition	802.11ax (HE20) / 5955MHz

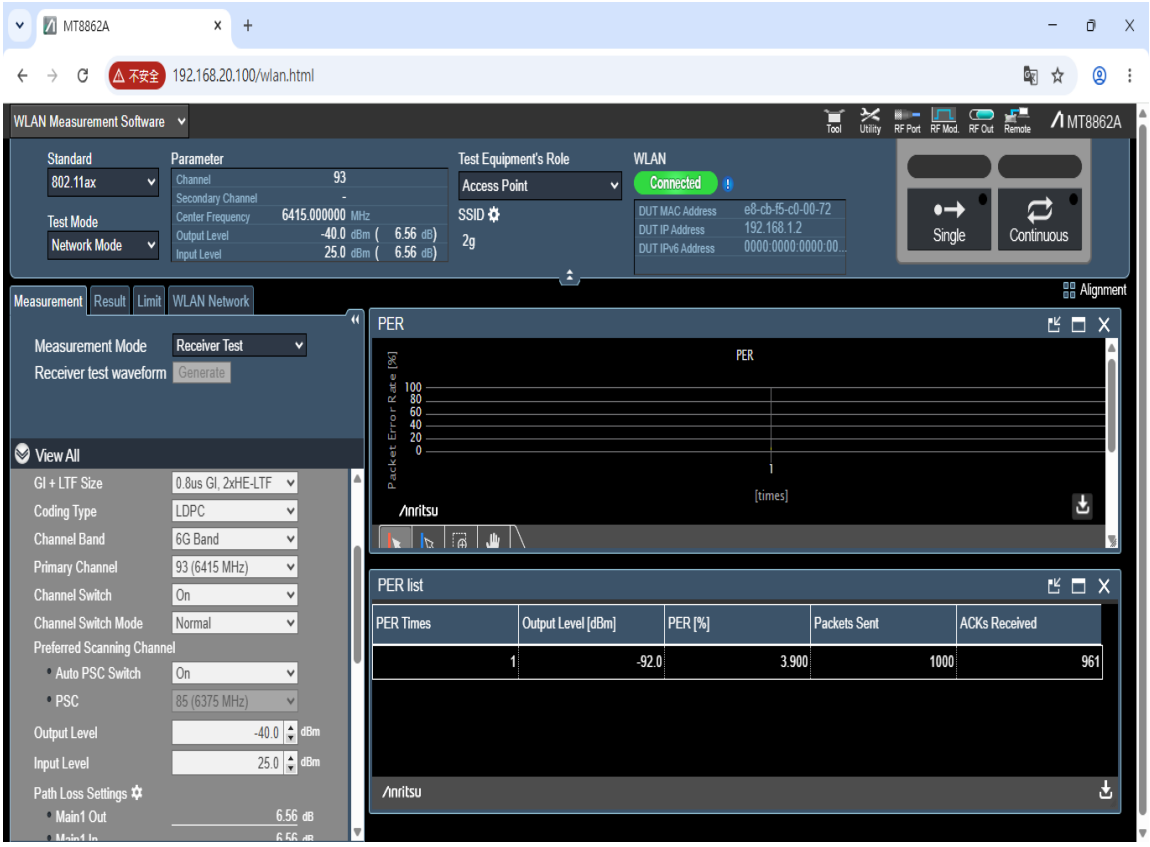
n	H(Bn)	Pn	Pn Limit	Result
0	0	0.00000	0.05000	Pass
1	0	0.00000	0.12000	Pass
2	0	0.00000	0.18250	Pass
3	20	0.00187	0.24500	Pass
4	39	0.00553	0.30750	Pass
5	3203	0.30572	0.37000	Pass
6	1	0.30581	0.43250	Pass
7	113	0.31640	0.49500	Pass
8	105	0.32624	0.55750	Pass
9	2719	0.58107	0.62000	Pass
10	93	0.58978	0.68250	Pass
11	116	0.60066	0.74500	Pass
12	211	0.62043	0.80750	Pass
13	194	0.63861	0.87000	Pass
14	196	0.65698	0.93250	Pass
15	213	0.67694	0.99500	Pass
16	3447	1.00000	1.00000	Pass

ax HE20 / 5955 MHz
Without Interference Signal Sensitivity Level



Minimum Level of the Wanted Signal (dBm)	-92		
Performance Criteria	PER ≤ 10 %		
Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)	Test Result
-86	6475	-53	Pass
-86	6575	-47	Pass
-86	6675		Pass

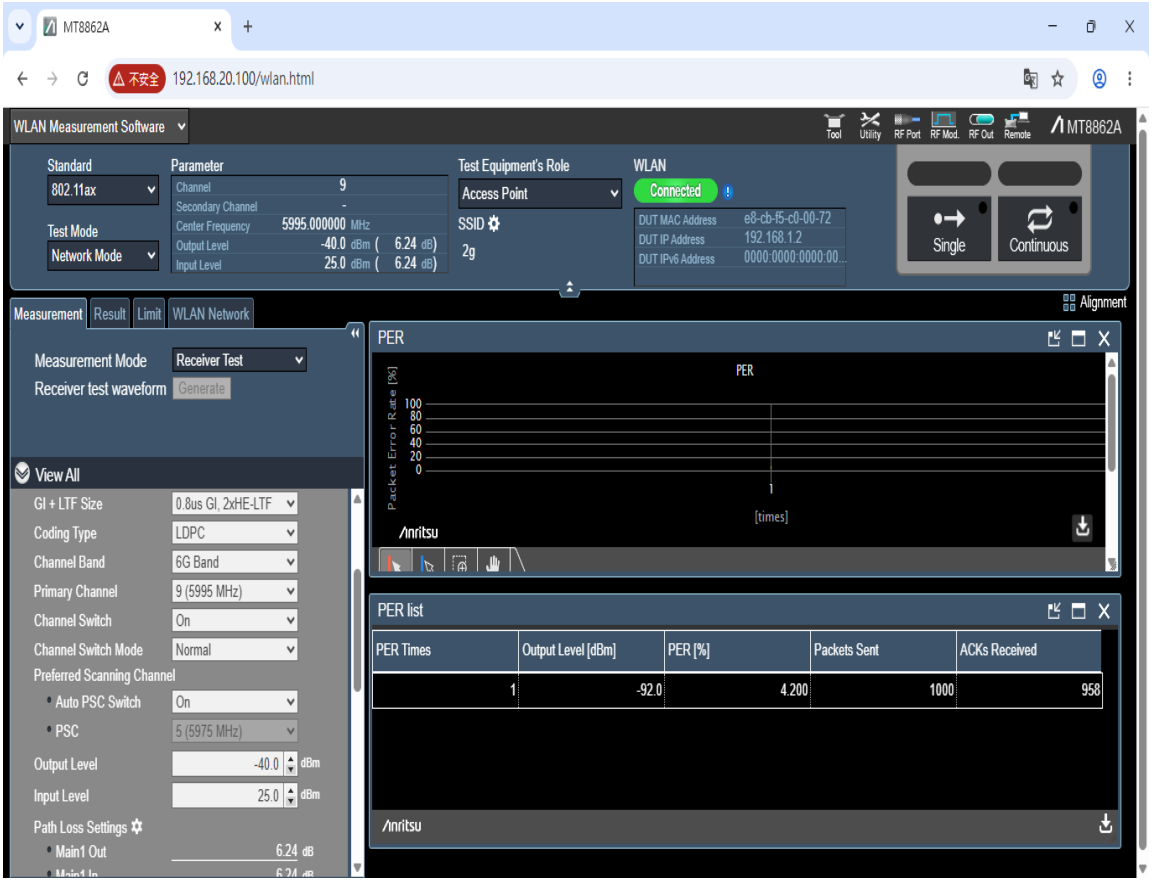
ax HE20 / 6415 MHz
Without Interference Signal Sensitivity Level



Minimum Level of the Wanted Signal (dBm)	-92		
Performance Criteria	PER ≤ 10 %		
Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)	Test Result
-86	6475	-53	Pass
-86	6575	-47	Pass
-86	6675		Pass

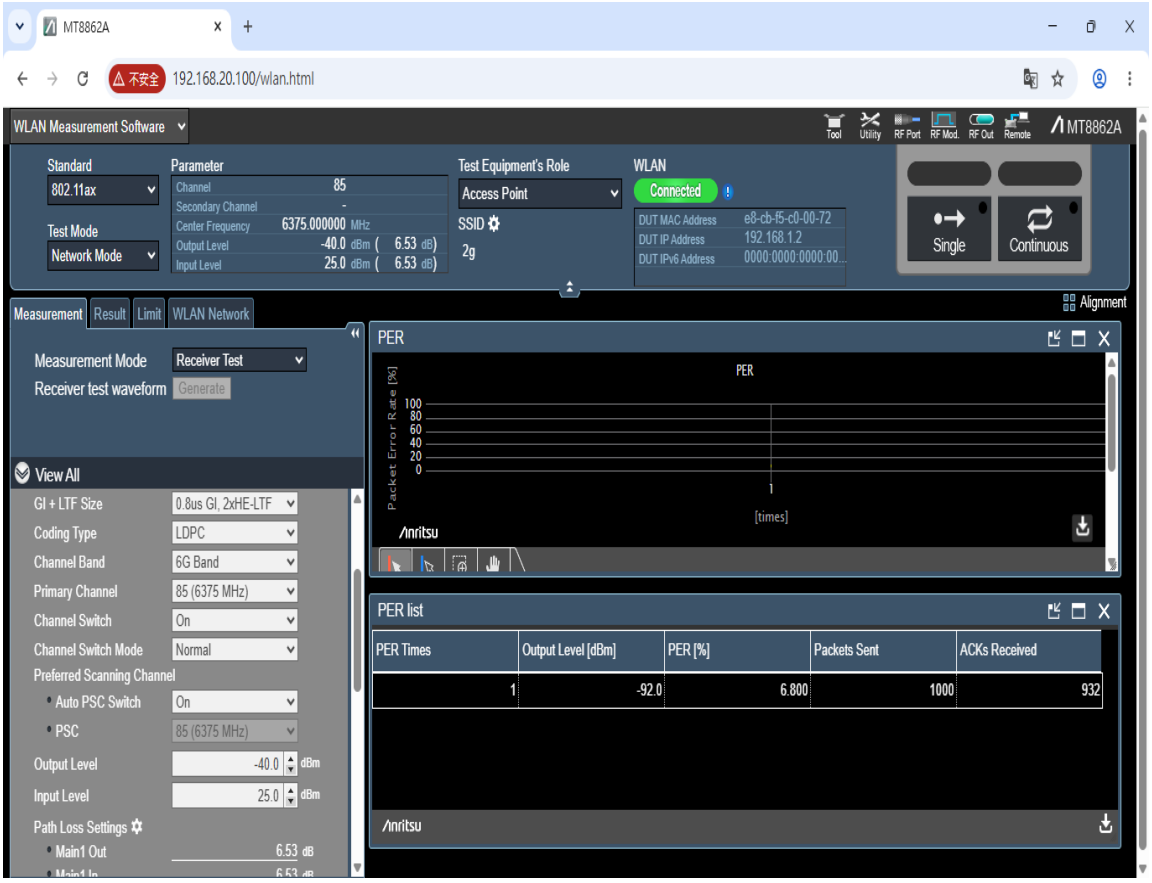
ax HE20 / 5995 MHz

Without Interference Signal Sensitivity Level



Minimum Level of the Wanted Signal (dBm)	-92		
Performance Criteria	PER≤10 %		
Wanted Signal Mean Power from Companion Device (dBm)	**Blocking Signal Frequency (MHz)**	**Blocking Signal Power (dBm)**	**Test Result**
-82	6015	-66	Pass
-82	6035	-60	Pass
-82	5975	-66	Pass
-82	5955	-60	Pass

ax HE20 / 6375 MHz
Without Interference Signal Sensitivity Level



Minimum Level of the Wanted Signal (dBm)	-92		
Performance Criteria	PER≤10 %		
Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)	Test Result
-82	6395	-66	Pass
-82	6415	-60	Pass
-82	6355	-66	Pass
-82	6335	-60	Pass

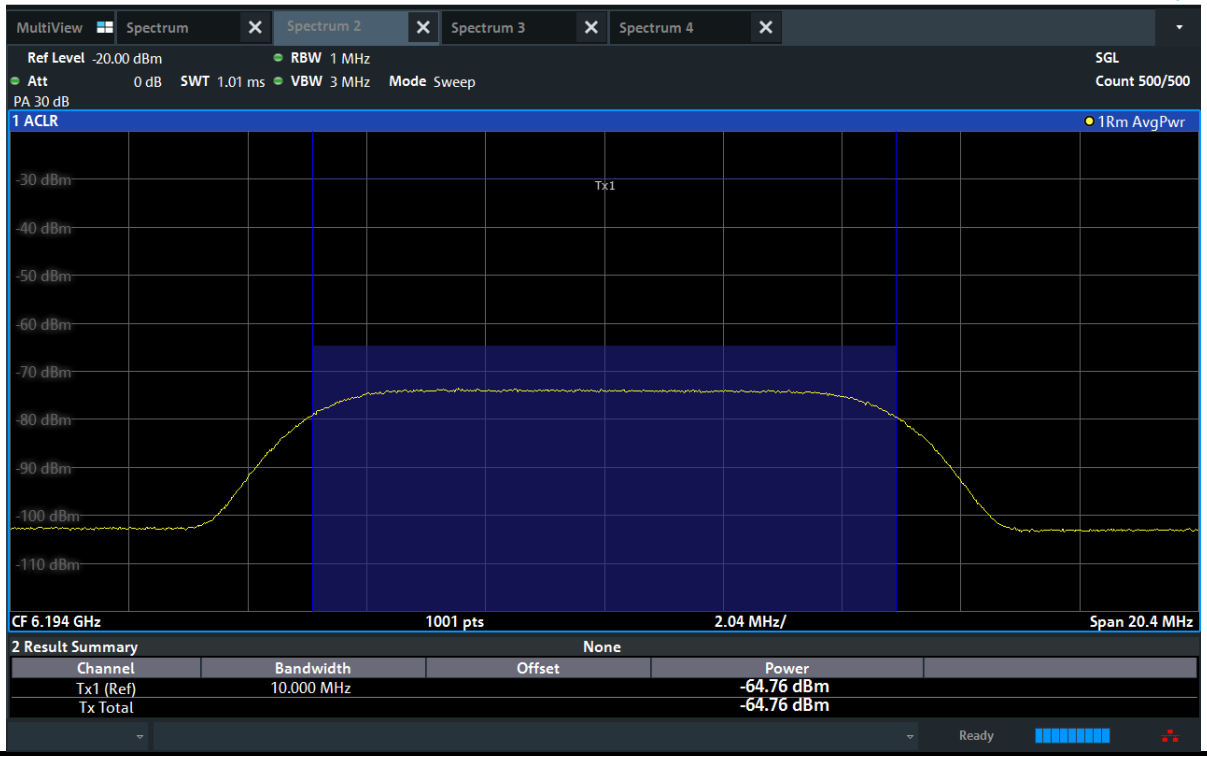
Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected (AWGN) Power (dBm)	Antenna gain With path Loss (dBi)	Adjusted Power (dBm)	Detection limit (dBm)	EUT Tx Status
axHE20_OFDMA	5	6195	6194	-64.76	2.7	-67.46	-62	Ceased
				-66.76	2.7	-69.46	-62	Minimal
				-84.76	2.7	-87.46	-62	Normal

Note: Adjusted Power = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Mode	UNII Band	Center Frequency (MHz)	Incumbent Frequency (MHz)	Injected (AWGN) Power (dBm)	Adjusted Power (dBm)	1	2	3	4	5	6	7	8	9	10	Detection Probability (%)	Limit (%)
axHE20_OFDMA	5	6195	6194	-64.76	-67.46	V	V	V	V	V	V	V	V	V	V	100	90

Test plot of Incumbent signal

BW: 20 MHz / Frequency: 6194 MHz

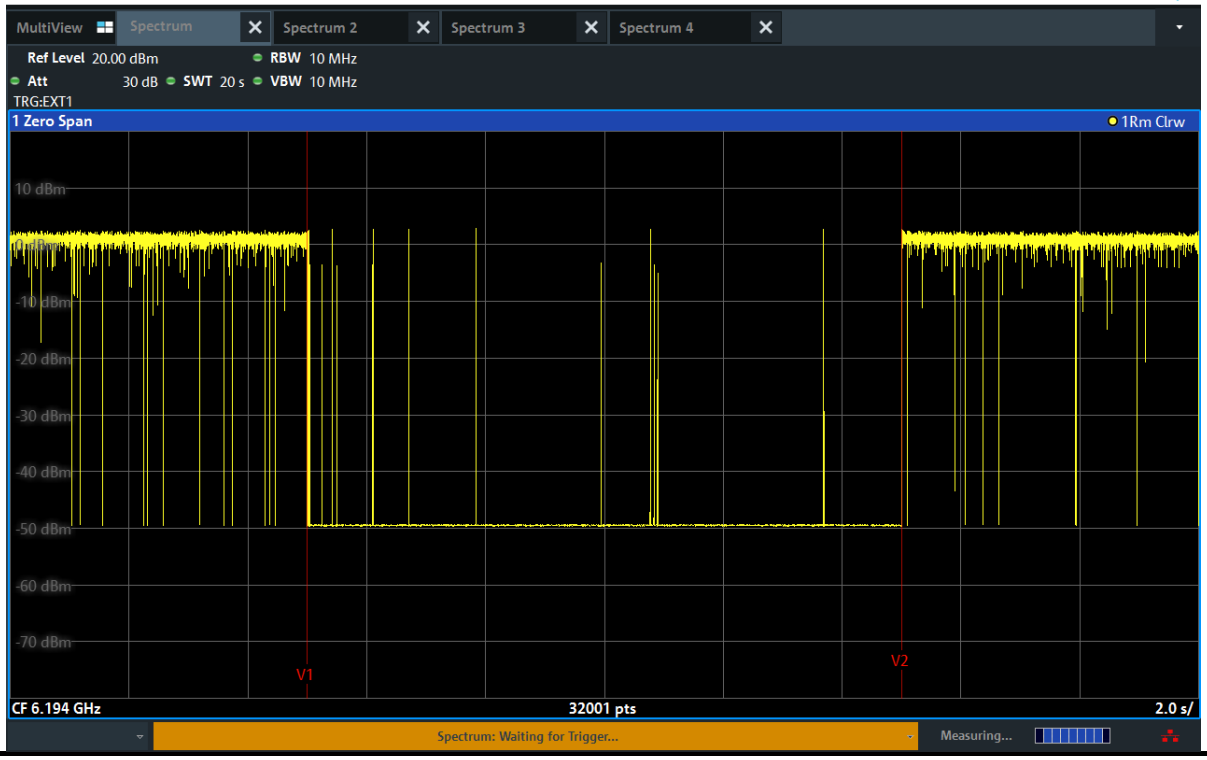


Test plot of Contention Based Protocol
EUT Normal transmission

BW: 20 MHz / Frequency: 6194 MHz

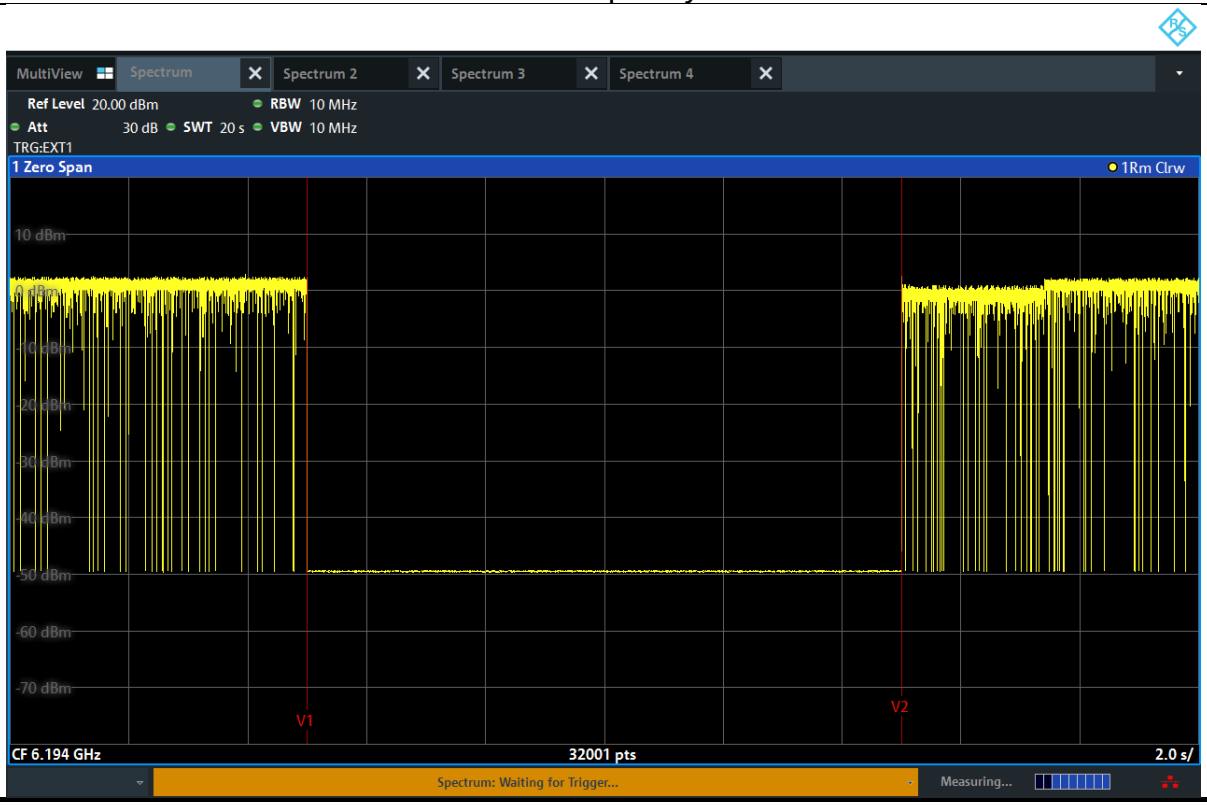
EUT Minimal transmission

BW: 20 MHz / Frequency: 6194 MHz



EUT ceased transmission

BW: 20 MHz / Frequency: 6194 MHz



Note: T1: AWGN signal is injected, T2: AWGN signal is removed.