FCC Verification Test Report

Equipment	:	**Sentrius™ IG60 Serial, Wi-Fi, & LTE Cat 1 Gateway**
Model No.	:	**Sentrius™ IG60-SERIAL-LTE**
Brand Name	:	**Laird Connectivity**
Applicant	:	**Laird Connectivity**
Address	:	**W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA**
Standard	:	**47 CFR FCC Part 15.247** **47 CFR FCC Part 15.407** **47 CFR FCC Part 22 Subpart H** **47 CFR FCC Part 24 Subpart E** **47 CFR FCC Part 27**
Received Date	:	**Aug. 19, 2019**
Tested Date	:	**Dec. 25, 2019 ~ Feb. 27, 2020**

We, International Certification Corp., 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 may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR8N2101-01	Rev. 01	Initial issue	Apr. 24, 2020
FR8N2101-01	Rev. 02	Updated brand name	May 25, 2020
FR8N2101-01	Rev. 03	Updated information of section 1.1	May 28, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.209	Radiated Emissions	Meet the requirement of limit	Pass
15.407(b) 15.209	Radiated Emissions	Meet the requirement of limit	Pass
2.1053 22.917(a)	Radiated Emissions	Meet the requirement of limit	Pass
2.1053 24.238(a)	Radiated Emissions	Meet the requirement of limit	Pass
2.1053 27.53(g)	Radiated Emissions	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

The device includes 2 certified modules as below

Certified Module 1, FCC ID:SQG-SU60SOMC
Certified Module 2, FCC ID:SQG-IGUPCAT1

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	802.11b/g/n: 2412 MHz ~ 2462 MHz 802.11a/n/ac: 5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz GSM850 / GSM1900 WCDMA BAND II / IV / V LTE Band 2 / 4 / 5 / 12
Modulation Type	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n/ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) GPRS/EDGE: GMSK/8PSK WCDMA/HSDPA/HSUPA/HSPA+: BPSK LTE: QPSK/16QAM

1.1.2 Antenna Details of Specific platform

For Wi-Fi

Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
LSR/001-0009	Dipole	IPEX U.FL	2	2	2	2	2

For WWAN

Brand / Model	Type	Connector	Gain (dBi)	Operating Band
Laird/DBA6927C1	Dipole	SMA_MALE	2.2	LTE Band 2 / PCS 1900
			2.2	LTE Band 4 / WCDMA II / WCDMA Band IV
			0.5	LTE Band 5 / GSM850 / WCDMA Band V
			0.5	LTE Band 12

For BT

Model	Type	Connector	Antenna Gain (dBi)
LSR/001-0009	Dipole	IPEX U.FL	2

1.1.3 Accessories

Accessories		
No.	**Equipment**	**Description**
1	AC adapter	Brand: FRECOM Model: F30L2-120250SPACP Power Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 2.5A Power Line: 1.5m non-shielded without core
2	AC adapter	Brand: FRECOM Model: F48L-120400SPAU Power Rating: I/P: 100-240Vac, 50/60Hz, 1.4A O/P: 12Vdc, 4A Power Line: 1.5m non-shielded with one core
3	DC cable	3m non-shielded, without core
4	Serial loopback adapter	Model : DB9 female Brand : Kingmate

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Data	Dec. 25 ~ Dec. 26, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Jan. 07, 2019	Jan. 06, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 10, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 07, 2019	Jan. 06, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 14, 2019	Aug. 13, 2020
Preamplifier	Agilent	83017A	MY53270014	Aug. 07, 2019	Aug. 06, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/**4**	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Data	Jan. 14 ~ Feb. 24, 2020				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Feb. 24 ~ Feb. 27, 2020				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 14, 2019	Aug. 13, 2020
Preamplifier	Agilent	83017A	MY53270014	Aug. 07, 2019	Aug. 06, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/**4**	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
47 CFR FCC Part 22 Subpart H
47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 27
ANSI C63.4-2014
ANSI C63.10-2013
ANSI C63.26-2015
FCC KDB 996369 D04 Module Integration Guide V01
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Measurement Uncertainty	
Parameters	**Uncertainty**
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH03-WS	23-24°C / 65-67%	Roger Lu Akun Chung Mike Shu
	03CH01-WS	21-22°C / 62-67%	Roger Lu

- FCC Designation No.: 03CH03-WS:TW0009
03CH01-WS: TW2732
- FCC site registration No.: 03CH03-WS: 207696
03CH01-WS: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Test mode
Radiated Emissions ≤ 1GHz	2.4G 11g CH6
	5G VHT20 CH48
	5G VHT20 CH149
	LTE B2 CH19125
	LTE B4 CH19975
	LTE B12 CH23095
	GSM850 CH251
	BT EDR CH00
	BLE CH37
Radiated Emissions> 1GHz	2.4G 11b CH01
	5G VHT20 CH64
	LTE B2 CH18675
	LTE B4 CH20375
	LTE B12 CH23017
	GSM850 CH128
	BT EDR CH39
	BLE CH17
NOTE: Two adapters (F30L2-120250SPACP and F48L-120400SPAV) had been covered during the pretest, and found that Adapter F30L2-120250SPACP was the worst case and was selected for final test.	

3 Transmitter Test Results

3.1 Radiated Emissions

3.1.1 Limit of Wi-Fi

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Limit of WWAN

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB equal to -13dBm.

3.1.3 Test Procedures for Wi-Fi

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

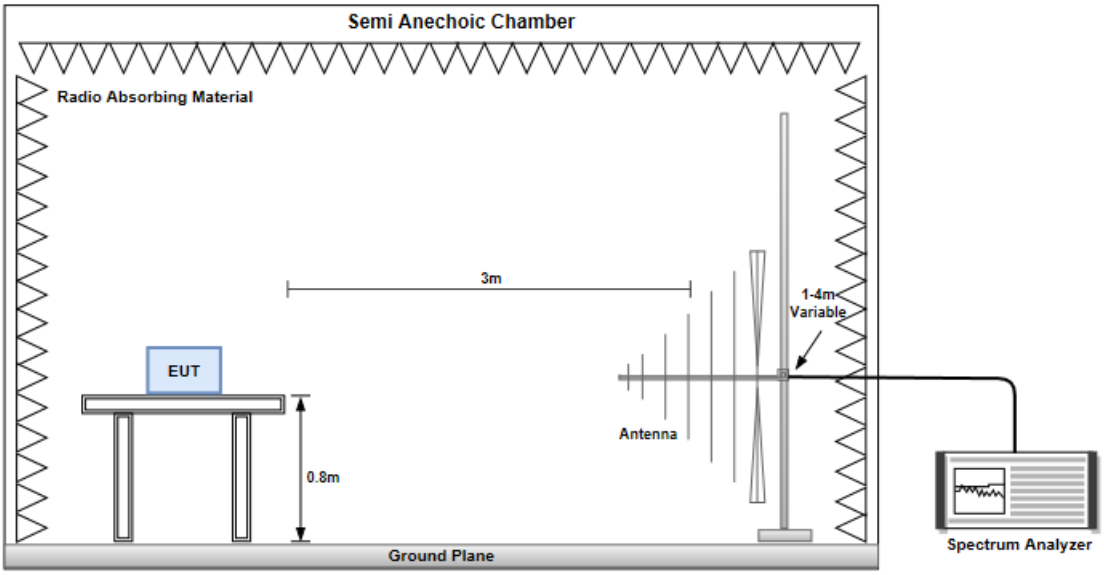
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.4 Test Procedures for WWAN

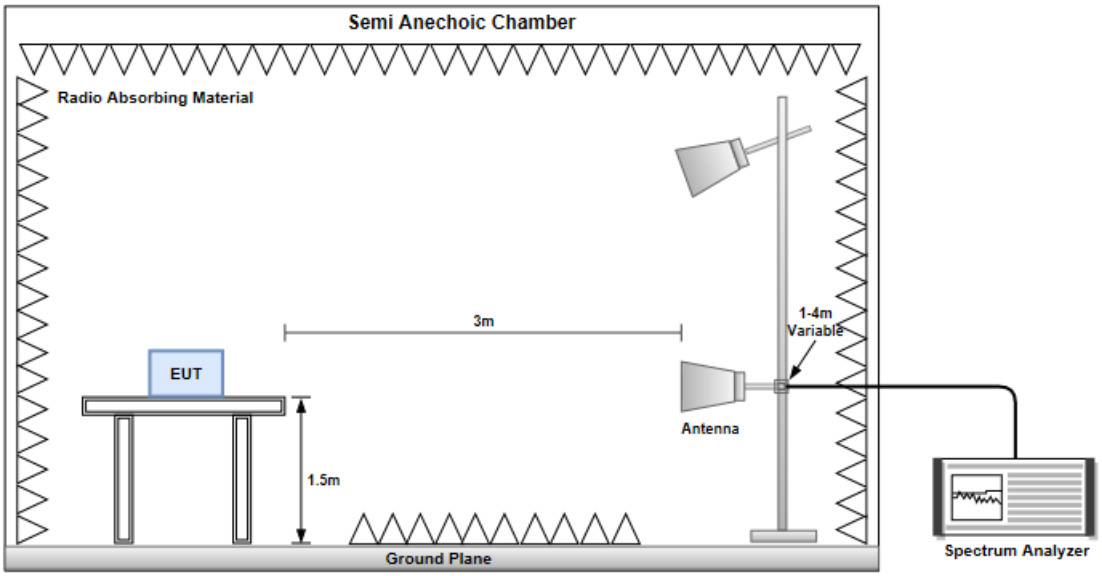
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable. ERP can be calculated by below formula:
   E.R.P = E.I.R.P – 2.15dB.

Test Setup

Radiated Emissions below 1 GHz

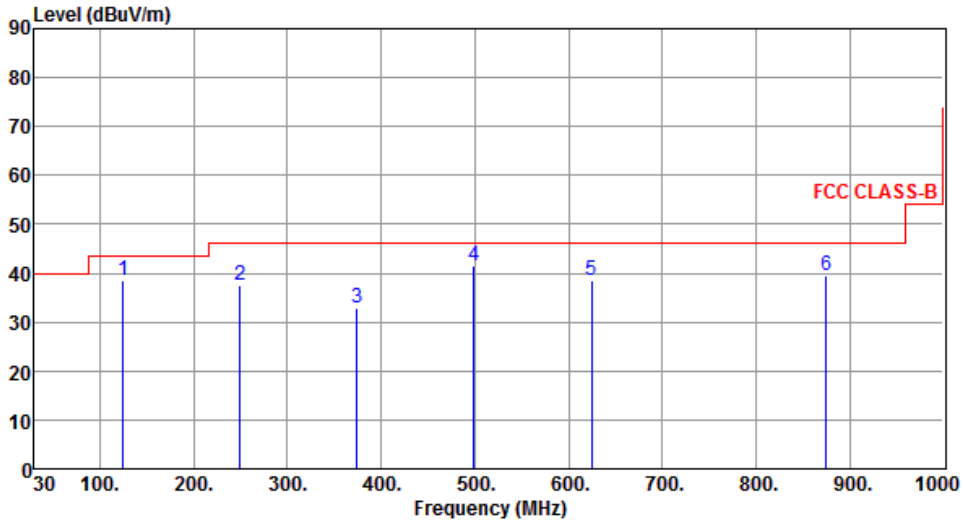


Radiated Emissions above 1 GHz



3.1.5 Transmitter Radiated Unwanted Emissions (Below 1GHz)

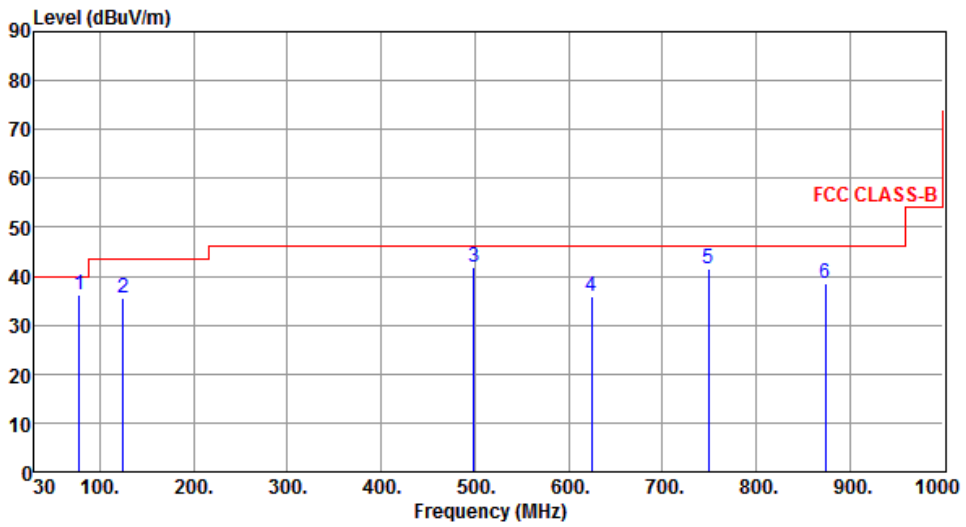
Test mode	2.4G 11g CH6
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.68	38.49	43.50	-5.01	49.12	-10.63	Peak	---	---
2	249.84	37.44	46.00	-8.56	47.39	-9.95	Peak	---	---
3	374.65	32.91	46.00	-13.09	39.16	-6.25	Peak	---	---
4	499.34	41.50	46.00	-4.50	44.55	-3.05	Peak	---	---
5	624.74	38.52	46.00	-7.48	38.66	-0.14	Peak	---	---
6	874.89	39.39	46.00	-6.61	35.63	3.76	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

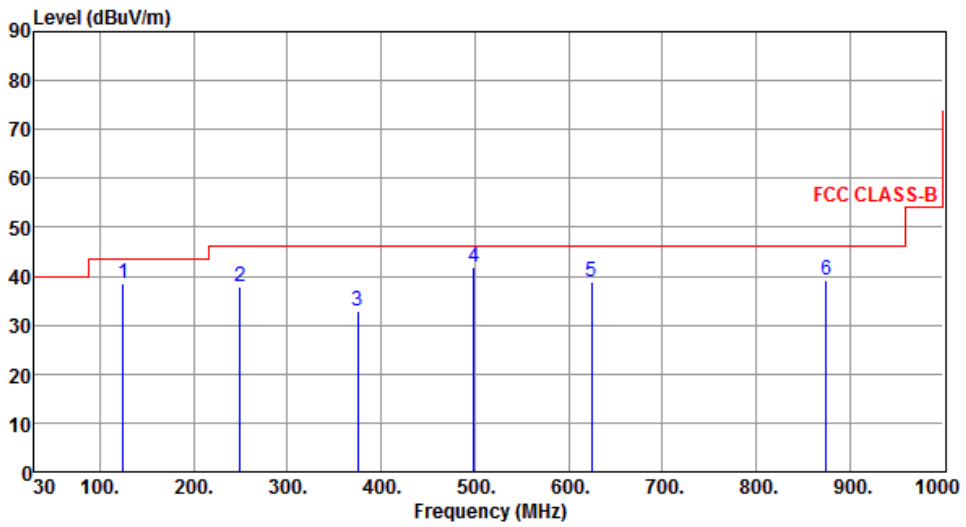
Test mode	2.4G 11g CH6
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	77.76	36.29	40.00	-3.71	49.22	-12.93	Peak	---	---
2	124.63	35.57	43.50	-7.93	46.21	-10.64	Peak	---	---
3	499.36	41.92	46.00	-4.08	44.97	-3.05	Peak	---	---
4	624.55	35.76	46.00	-10.24	35.90	-0.14	Peak	---	---
5	749.43	41.39	46.00	-4.61	38.93	2.46	Peak	---	---
6	874.25	38.56	46.00	-7.44	34.81	3.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

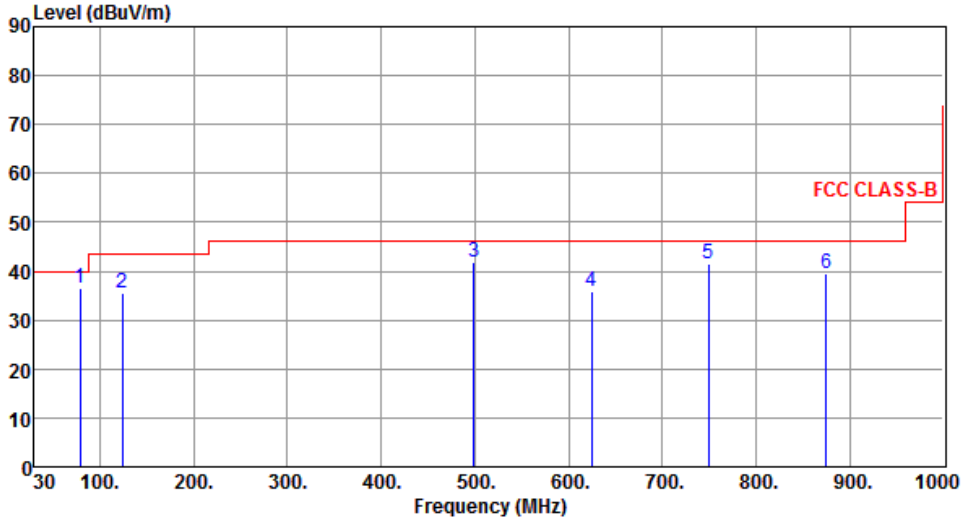
Test mode	5G B1-B3 VHT20 CH48
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.37	38.69	43.50	-4.81	49.35	-10.66	Peak	---	---
2	249.71	37.74	46.00	-8.26	47.70	-9.96	Peak	---	---
3	374.70	33.04	46.00	-12.96	39.29	-6.25	Peak	---	---
4	499.23	41.74	46.00	-4.26	44.80	-3.06	Peak	---	---
5	624.65	38.80	46.00	-7.20	38.94	-0.14	Peak	---	---
6	874.83	39.12	46.00	-6.88	35.36	3.76	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

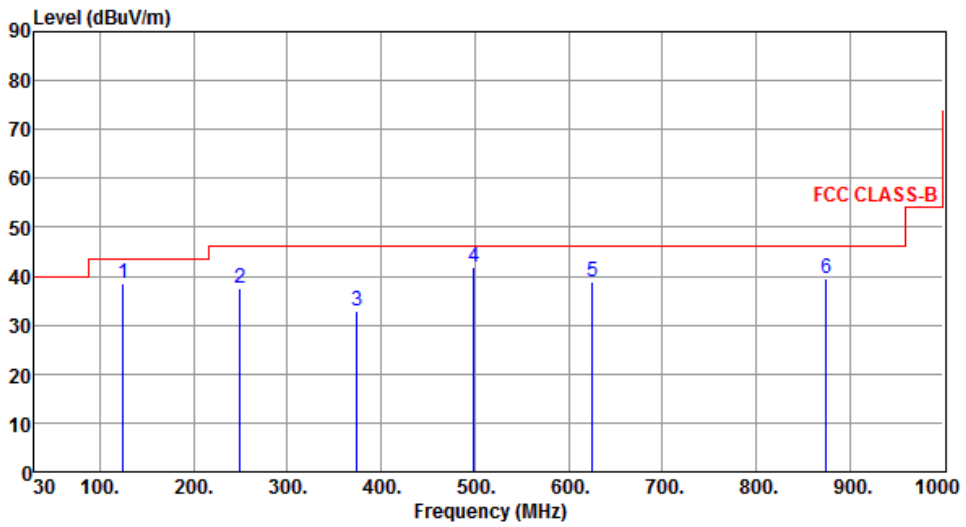
Test mode	5G B1-B3 VHT20 CH48
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	79.16	36.42	40.00	-3.58	49.66	-13.24	Peak	---	---
2	124.18	35.38	43.50	-8.12	46.06	-10.68	Peak	---	---
3	499.37	41.98	46.00	-4.02	45.03	-3.05	Peak	---	---
4	624.45	35.96	46.00	-10.04	36.10	-0.14	Peak	---	---
5	749.63	41.61	46.00	-4.39	39.15	2.46	Peak	---	---
6	874.86	39.48	46.00	-6.52	35.72	3.76	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

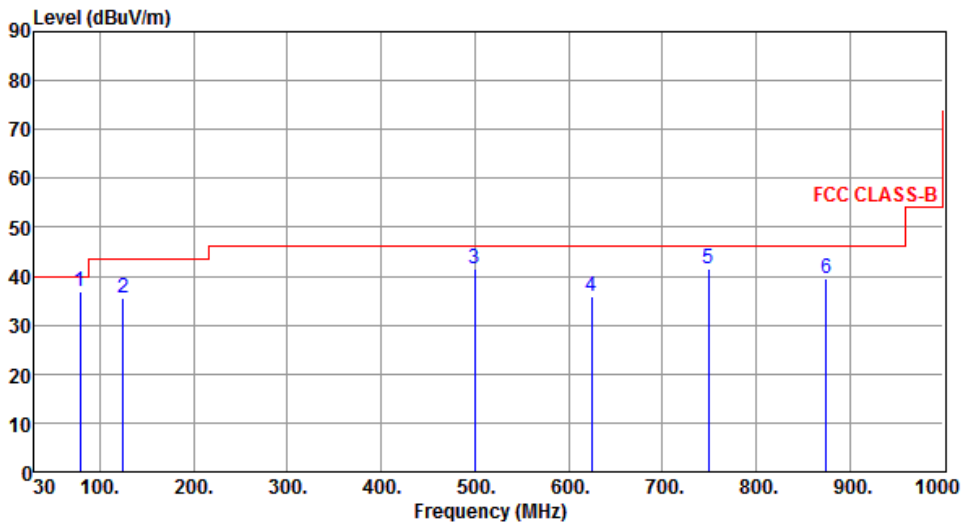
Test mode	5G B4 VHT20 CH149
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.34	38.52	43.50	-4.98	49.19	-10.67	Peak	---	---
2	249.36	37.59	46.00	-8.41	47.55	-9.96	Peak	---	---
3	374.51	32.83	46.00	-13.17	39.09	-6.26	Peak	---	---
4	499.17	41.76	46.00	-4.24	44.82	-3.06	Peak	---	---
5	625.84	38.88	46.00	-7.12	39.02	-0.14	Peak	---	---
6	874.67	39.60	46.00	-6.40	35.85	3.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

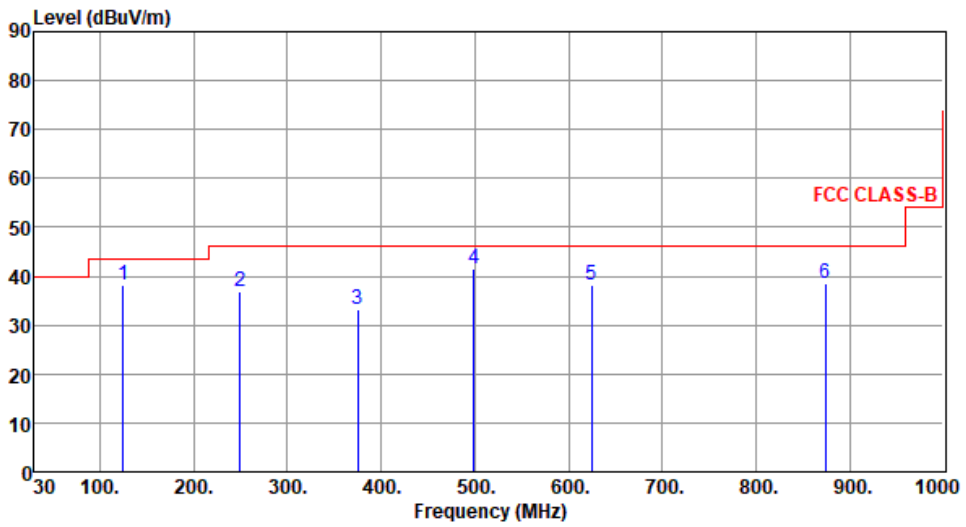
Test mode	5G B4 VHT20 CH149
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	79.08	36.75	40.00	-3.25	49.98	-13.23	Peak	---	---
2	124.36	35.59	43.50	-7.91	46.25	-10.66	Peak	---	---
3	499.43	41.52	46.00	-4.48	44.57	-3.05	Peak	---	---
4	624.77	35.84	46.00	-10.16	35.98	-0.14	Peak	---	---
5	749.63	41.62	46.00	-4.38	39.16	2.46	Peak	---	---
6	874.76	39.45	46.00	-6.55	35.69	3.76	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

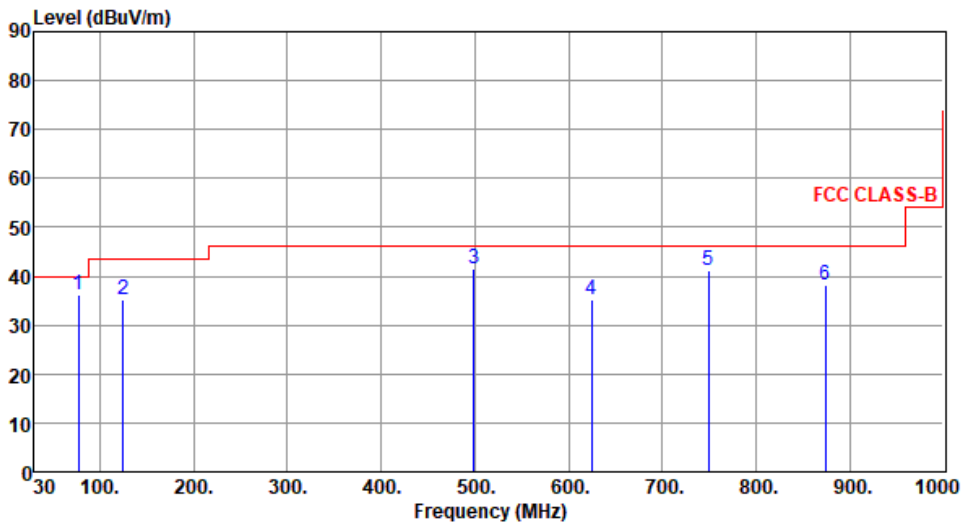
Test mode	BT EDR CH00
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.85	38.11	43.50	-5.39	48.72	-10.61	Peak	---	---
2	249.52	36.98	46.00	-9.02	46.94	-9.96	Peak	---	---
3	374.88	33.15	46.00	-12.85	39.39	-6.24	Peak	---	---
4	499.25	41.52	46.00	-4.48	44.57	-3.05	Peak	---	---
5	624.95	38.14	46.00	-7.86	38.28	-0.14	Peak	---	---
6	874.25	38.63	46.00	-7.37	34.88	3.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

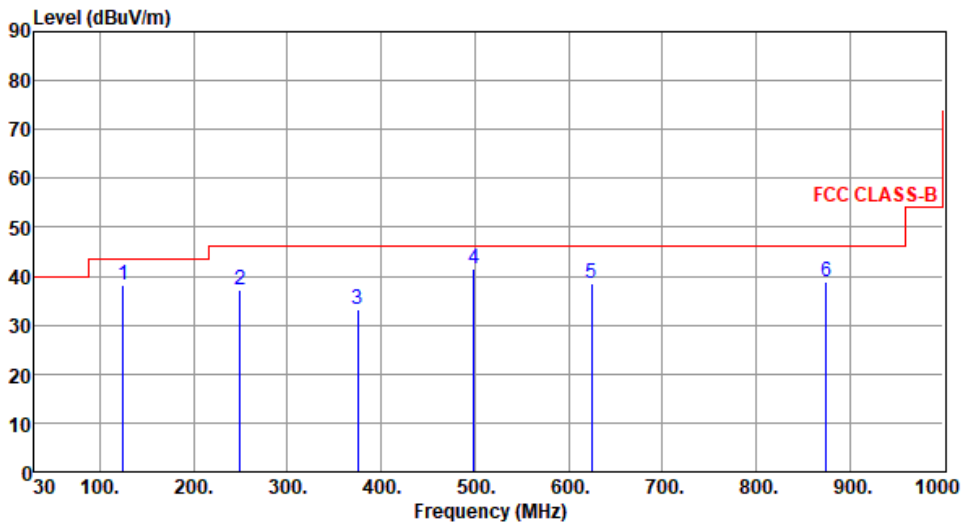
Test mode	BT EDR CH00
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	77.41	36.32	40.00	-3.68	49.14	-12.82	Peak	---	---
2	124.45	35.15	43.50	-8.35	45.80	-10.65	Peak	---	---
3	499.36	41.56	46.00	-4.44	44.61	-3.05	Peak	---	---
4	624.85	35.25	46.00	-10.75	35.39	-0.14	Peak	---	---
5	749.25	41.02	46.00	-4.98	38.57	2.45	Peak	---	---
6	874.25	38.11	46.00	-7.89	34.36	3.75	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

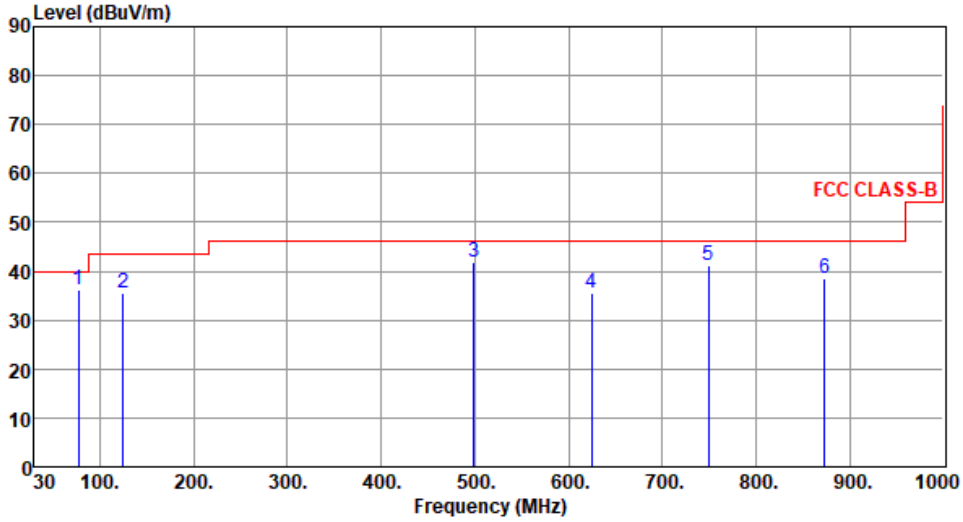
Test mode	BLE CH37
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	124.88	38.25	43.50	-5.25	48.86	-10.61	Peak	---	---
2	249.87	37.14	46.00	-8.86	47.09	-9.95	Peak	---	---
3	375.14	33.22	46.00	-12.78	39.46	-6.24	Peak	---	---
4	499.34	41.66	46.00	-4.34	44.71	-3.05	Peak	---	---
5	624.85	38.41	46.00	-7.59	38.55	-0.14	Peak	---	---
6	874.80	38.87	46.00	-7.13	35.11	3.76	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode	BLE CH37
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	77.25	36.14	40.00	-3.86	48.91	-12.77	Peak	---	---
2	124.55	35.41	43.50	-8.09	46.05	-10.64	Peak	---	---
3	499.25	41.85	46.00	-4.15	44.90	-3.05	Peak	---	---
4	624.33	35.41	46.00	-10.59	35.55	-0.14	Peak	---	---
5	749.40	41.25	46.00	-4.75	38.79	2.46	Peak	---	---
6	873.63	38.41	46.00	-7.59	34.69	3.72	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Test mode		LTE B2 CH19125					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
124.15	H	-55.3	-13	-42.3	-54.11	-54.28	-1.02
249.28	H	-65.34	-13	-52.34	-63.1	-69.47	4.13
374.56	H	-54.61	-13	-41.61	-57.54	-58.64	4.03
499.59	H	-58.7	-13	-45.7	-63.2	-62.58	3.88
624.78	H	-62.11	-13	-49.11	-68.74	-65.6	3.49
874.84	H	-54.56	-13	-41.56	-65.7	-57.34	2.78
124.25	V	-50.19	-13	-37.19	-51.17	-49.17	-1.02
249.26	V	-59.63	-13	-46.63	-62.53	-63.76	4.13
374.58	V	-58.73	-13	-45.73	-61.98	-62.76	4.03
499.49	V	-56.34	-13	-43.34	-62.15	-60.22	3.88
624.66	V	-56.4	-13	-43.4	-65.7	-59.89	3.49
874.75	V	-51.13	-13	-38.13	-63.32	-53.91	2.78

Note: EIRP = S.G Power value + Correction factor

Test mode		LTE B4 CH19975					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
124.03	H	-55.16	-13	-42.16	-53.96	-54.14	-1.02
249.27	H	-64.14	-13	-51.14	-61.9	-68.27	4.13
375.64	H	-55.21	-13	-42.21	-58.16	-59.23	4.02
499.46	H	-58.57	-13	-45.57	-63.07	-62.45	3.88
624.69	H	-62.68	-13	-49.68	-69.31	-66.17	3.49
874.91	H	-53.53	-13	-40.53	-64.67	-56.31	2.78
124.39	V	-50.46	-13	-37.46	-51.46	-49.43	-1.03
249.28	V	-59.53	-13	-46.53	-62.43	-63.66	4.13
374.66	V	-58.62	-13	-45.62	-61.87	-62.65	4.03
499.46	V	-56.1	-13	-43.1	-61.9	-59.98	3.88
624.76	V	-57.37	-13	-44.37	-66.67	-60.86	3.49
874.92	V	-51.42	-13	-38.42	-63.62	-54.2	2.78

Note: EIRP = S.G Power value + Correction factor

Test mode		LTE B12 CH23095					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
36.67	H	-63.48	-13	-50.48	-70.13	-48.38	-12.95
124.2	H	-58.28	-13	-45.28	-54.95	-55.11	-1.02
249.37	H	-67.3	-13	-54.3	-62.91	-69.28	4.13
374.64	H	-57.34	-13	-44.34	-58.13	-59.22	4.03
499.58	H	-61.21	-13	-48.21	-63.56	-62.94	3.88
874.83	H	-56.55	-13	-43.55	-65.54	-57.18	2.78
124.02	V	-53.18	-13	-40.18	-51.98	-50.01	-1.02
249.36	V	-61.42	-13	-48.42	-62.17	-63.4	4.13
374.22	V	-63.53	-13	-50.53	-64.62	-65.41	4.03
499.26	V	-58.18	-13	-45.18	-61.83	-59.91	3.88
624.78	V	-58.72	-13	-45.72	-65.87	-60.06	3.49
874.96	V	-53.47	-13	-40.47	-63.52	-54.1	2.78

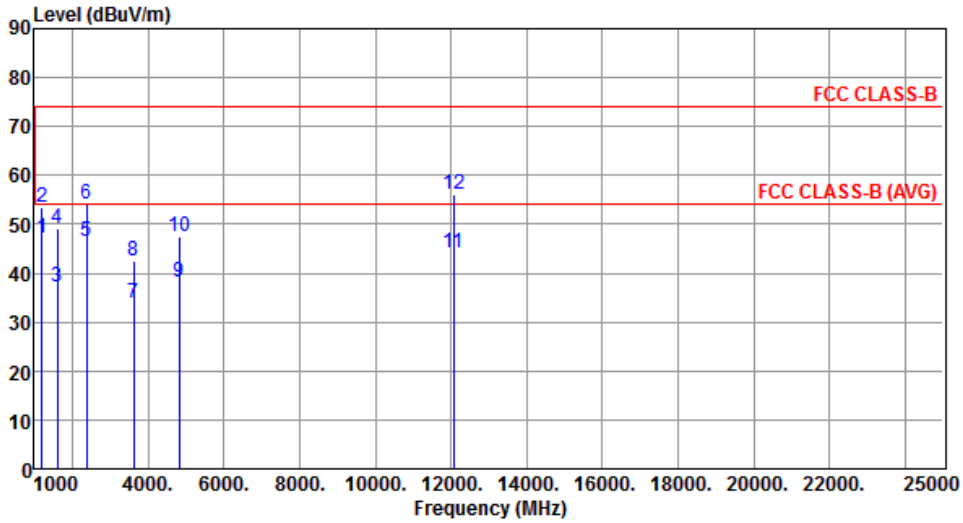
Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		GSM850 CH251					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
124.28	H	-58.36	-13	-45.36	-55.04	-55.18	-1.03
249.27	H	-66.7	-13	-53.7	-62.31	-68.68	4.13
374.33	H	-56.45	-13	-43.45	-57.23	-58.33	4.03
499.56	H	-61.27	-13	-48.27	-63.62	-63	3.88
655.53	H	-45.93	-13	-32.93	-50.98	-47.35	3.57
943.66	H	-51.77	-13	-38.77	-61.96	-52.09	2.47
124.39	V	-54.31	-13	-41.31	-53.16	-51.13	-1.03
246.37	V	-60.88	-13	-47.88	-61.56	-62.85	4.12
374.75	V	-61.76	-13	-48.76	-62.86	-63.64	4.03
499.32	V	-58.46	-13	-45.46	-62.11	-60.19	3.88
655.43	V	-36.34	-13	-23.34	-43.85	-37.76	3.57
943.68	V	-32.9	-13	-19.9	-44.78	-33.22	2.47

Note: ERP = S.G Power value + Correction factor - 2.15

3.1.6 Transmitter Radiated Unwanted Emissions (Above 1GHz)

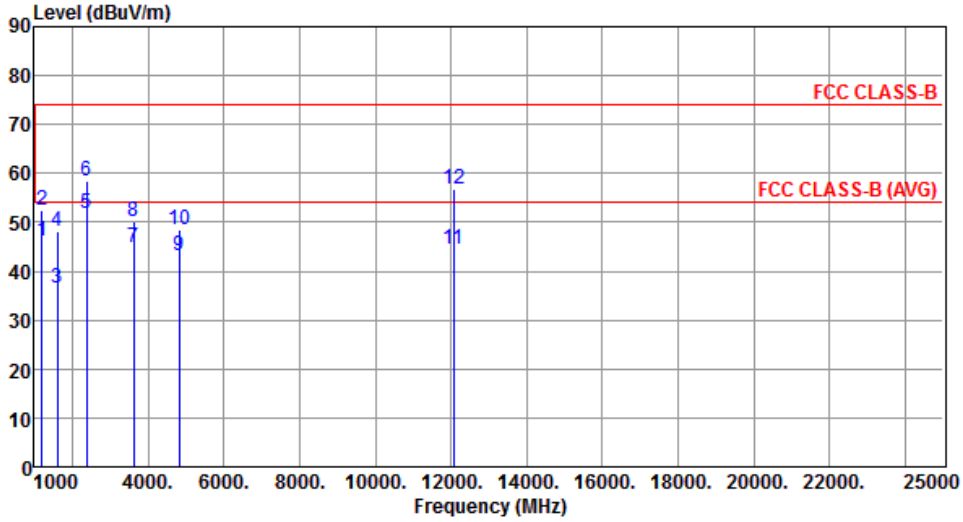
Test mode	2.4G 11b CH01
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	47.02	54.00	-6.98	52.40	-5.38	Average	335	257
2	1206.00	53.32	74.00	-20.68	58.70	-5.38	Peak	335	257
3	1608.00	37.18	54.00	-16.82	40.91	-3.73	Average	100	131
4	1608.00	49.18	74.00	-24.82	52.91	-3.73	Peak	100	131
5	2390.00	46.57	54.00	-7.43	46.33	0.24	Average	123	266
6	2390.00	54.06	74.00	-19.94	53.82	0.24	Peak	123	266
7	3618.00	33.71	54.00	-20.29	30.39	3.32	Average	100	147
8	3618.00	42.54	74.00	-31.46	39.22	3.32	Peak	100	147
9	4824.00	38.31	54.00	-15.69	31.81	6.50	Average	193	220
10	4824.00	47.49	74.00	-26.51	40.99	6.50	Peak	193	220
11	12060.00	44.32	54.00	-9.68	28.08	16.24	Average	100	5
12	12060.00	56.21	74.00	-17.79	39.97	16.24	Peak	100	5

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

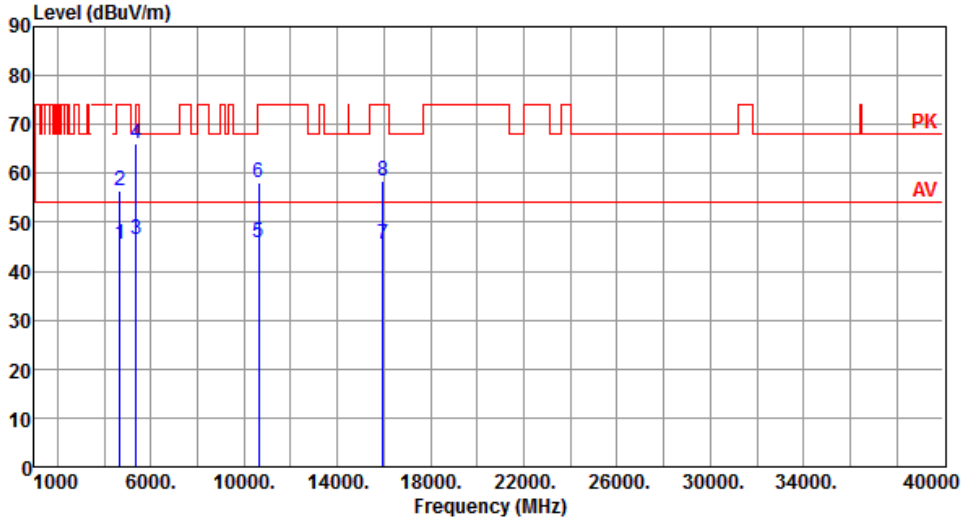
Test mode	2.4G 11b CH01
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1206.00	46.28	54.00	-7.72	51.66	-5.38	Average	114	175
2	1206.00	52.51	74.00	-21.49	57.89	-5.38	Peak	114	175
3	1608.00	36.63	54.00	-17.37	40.36	-3.73	Average	100	248
4	1608.00	48.16	74.00	-25.84	51.89	-3.73	Peak	100	248
5	2390.00	51.74	54.00	-2.26	51.50	0.24	Average	111	11
6	2390.00	58.60	74.00	-15.40	58.36	0.24	Peak	111	11
7	3618.00	44.93	54.00	-9.07	41.61	3.32	Average	100	124
8	3618.00	50.19	74.00	-23.81	46.87	3.32	Peak	100	124
9	4824.00	43.08	54.00	-10.92	36.58	6.50	Average	100	127
10	4824.00	48.62	74.00	-25.38	42.12	6.50	Peak	100	127
11	12060.00	44.53	54.00	-9.47	28.29	16.24	Average	100	133
12	12060.00	56.73	74.00	-17.27	40.49	16.24	Peak	100	133

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

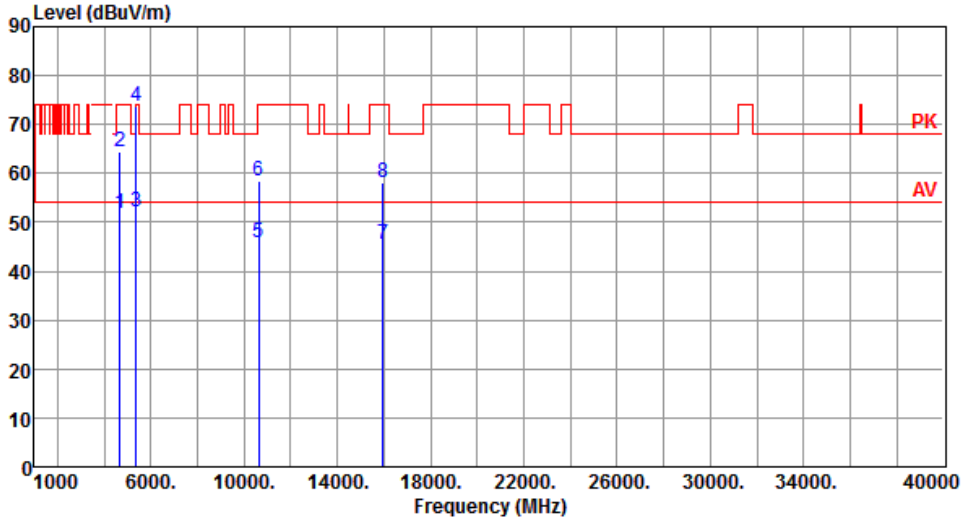
Test mode	5G VHT20 CH64
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4655.00	45.40	54.00	-8.60	39.27	6.13	Average	100	55
2	4655.00	56.34	74.00	-17.66	50.21	6.13	Peak	100	55
3	5350.00	46.35	54.00	-7.65	39.50	6.85	Average	227	135
4	5350.00	66.13	74.00	-7.87	59.28	6.85	Peak	227	135
5	10640.00	45.76	54.00	-8.24	29.39	16.37	Average	100	131
6	10640.00	58.16	74.00	-15.84	41.79	16.37	Peak	100	131
7	15960.00	45.49	54.00	-8.51	28.96	16.53	Average	100	153
8	15960.00	58.49	74.00	-15.51	41.96	16.53	Peak	100	153

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

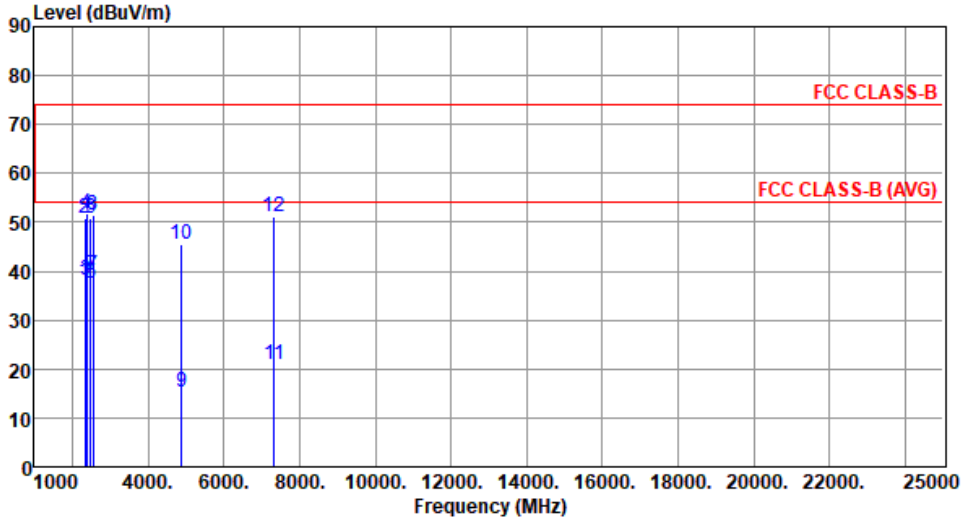
Test mode	5G VHT20 CH64
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	4655.00	51.95	54.00	-2.05	45.82	6.13	Average	232	39
2	4655.00	64.44	74.00	-9.56	58.31	6.13	Peak	232	39
3	5350.00	52.11	54.00	-1.89	45.26	6.85	Average	100	202
4	5350.00	73.70	74.00	-0.30	66.85	6.85	Peak	100	202
5	10640.00	45.74	54.00	-8.26	29.37	16.37	Average	100	277
6	10640.00	58.50	74.00	-15.50	42.13	16.37	Peak	100	277
7	15960.00	45.54	54.00	-8.46	29.01	16.53	Average	100	111
8	15960.00	58.19	74.00	-15.81	41.66	16.53	Peak	100	111

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

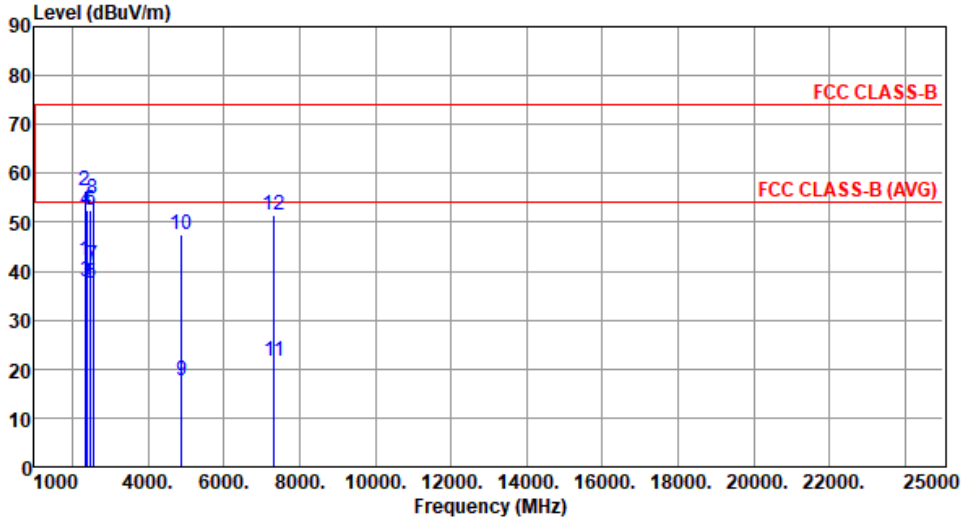
Test mode	BT EDR CH39
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2335.00	38.01	54.00	-15.99	37.63	0.38	Average	100	212
2	2335.00	50.82	74.00	-23.18	50.44	0.38	Peak	100	212
3	2390.00	38.22	54.00	-15.78	37.98	0.24	Average	113	150
4	2390.00	51.65	74.00	-22.35	51.41	0.24	Peak	113	150
5	2483.50	37.63	54.00	-16.37	37.38	0.25	Average	113	150
6	2483.50	50.77	74.00	-23.23	50.52	0.25	Peak	113	150
7	2547.00	39.28	54.00	-14.72	39.08	0.20	Average	100	174
8	2547.00	51.50	74.00	-22.50	51.30	0.20	Peak	100	174
9	4882.00	15.36	54.00	-38.64	8.91	6.45	Average	305	32
10	4882.00	45.46	74.00	-28.54	39.01	6.45	Peak	305	32
11	7323.00	20.95	54.00	-33.05	9.17	11.78	Average	100	234
12	7323.00	51.05	74.00	-22.95	39.27	11.78	Peak	100	234

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

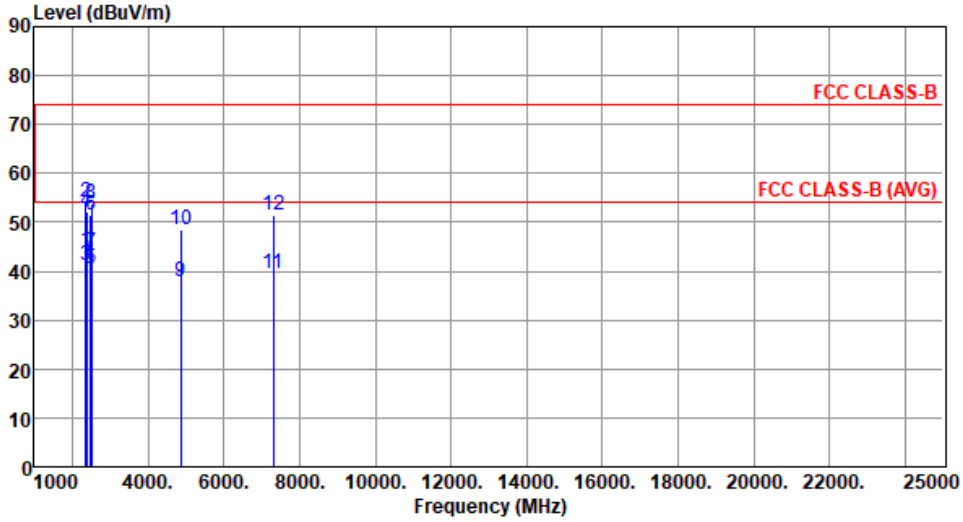
Test mode	BT EDR CH39
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2335.00	42.33	54.00	-11.67	41.95	0.38	Average	100	37
2	2335.00	56.30	74.00	-17.70	55.92	0.38	Peak	100	37
3	2390.00	37.88	54.00	-16.12	37.64	0.24	Average	100	25
4	2390.00	52.57	74.00	-21.43	52.33	0.24	Peak	100	25
5	2483.50	37.39	54.00	-16.61	37.14	0.25	Average	100	25
6	2483.50	52.32	74.00	-21.68	52.07	0.25	Peak	100	25
7	2547.00	41.04	54.00	-12.96	40.84	0.20	Average	100	186
8	2547.00	54.64	74.00	-19.36	54.44	0.20	Peak	100	186
9	4882.00	17.48	54.00	-36.52	11.03	6.45	Average	204	150
10	4882.00	47.58	74.00	-26.42	41.13	6.45	Peak	204	150
11	7323.00	21.44	54.00	-32.56	9.66	11.78	Average	100	122
12	7323.00	51.54	74.00	-22.46	39.76	11.78	Peak	100	122

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

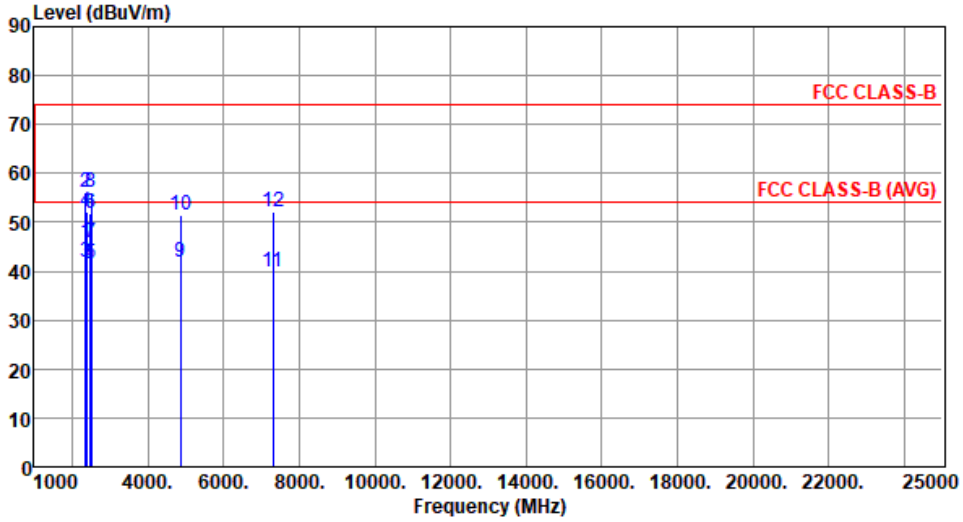
Test mode	BLE CH17
Polarization	Horizontal



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2362.00	44.18	54.00	-9.82	43.87	0.31	Average	199	162
2	2362.00	54.22	74.00	-19.78	53.91	0.31	Peak	199	162
3	2390.00	41.12	54.00	-12.88	40.88	0.24	Average	199	162
4	2390.00	52.06	74.00	-21.94	51.82	0.24	Peak	199	162
5	2483.50	40.60	54.00	-13.40	40.35	0.25	Average	199	162
6	2483.50	51.44	74.00	-22.56	51.19	0.25	Peak	199	162
7	2512.00	43.93	54.00	-10.07	43.69	0.24	Average	199	162
8	2512.00	53.77	74.00	-20.23	53.53	0.24	Peak	199	162
9	4874.00	37.86	54.00	-16.14	31.38	6.48	Average	208	132
10	4874.00	48.33	74.00	-25.67	41.85	6.48	Peak	208	132
11	7311.00	39.44	54.00	-14.56	27.68	11.76	Average	100	93
12	7311.00	51.59	74.00	-22.41	39.83	11.76	Peak	100	93

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode	BLE CH17
Polarization	Vertical



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2362.00	45.85	54.00	-8.15	45.54	0.31	Average	147	229
2	2362.00	56.08	74.00	-17.92	55.77	0.31	Peak	147	229
3	2390.00	41.78	54.00	-12.22	41.54	0.24	Average	147	229
4	2390.00	52.05	74.00	-21.95	51.81	0.24	Peak	147	229
5	2483.50	41.38	54.00	-12.62	41.13	0.25	Average	147	229
6	2483.50	51.73	74.00	-22.27	51.48	0.25	Peak	147	229
7	2512.00	45.96	54.00	-8.04	45.72	0.24	Average	147	229
8	2512.00	56.20	74.00	-17.80	55.96	0.24	Peak	147	229
9	4874.00	41.96	54.00	-12.04	35.48	6.48	Average	312	35
10	4874.00	51.59	74.00	-22.41	45.11	6.48	Peak	312	35
11	7311.00	39.71	54.00	-14.29	27.95	11.76	Average	100	58
12	7311.00	52.00	74.00	-22.00	40.24	11.76	Peak	100	58

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Test mode		LTE B2 CH18675					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3701.8	H	-47.44	-13	-34.44	-64.5	-54.38	6.94
5552.7	H	-44.88	-13	-31.88	-65.29	-51.66	6.78
7403.6	H	-40.34	-13	-27.34	-63.89	-43.68	3.34
3701.8	V	-33.43	-13	-20.43	-63.2	-40.37	6.94
5552.7	V	-32.12	-13	-19.12	-65.19	-38.9	6.78
7403.6	V	-26.74	-13	-13.74	-63.77	-30.08	3.34

Note: EIRP = S.G Power value + Correction factor

Test mode		LTE B4 CH20375					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3500.6	H	-41.69	-13	-28.69	-57	-48.91	7.22
5250.9	H	-39.35	-13	-26.35	-59.12	-46.09	6.74
7001.2	H	-41.72	-13	-28.72	-64.56	-46.25	4.53
3500.6	V	-33.83	-13	-20.83	-48.95	-41.05	7.22
5250.9	V	-36.84	-13	-23.84	-56.18	-43.58	6.74
7001.2	V	-41.24	-13	-28.24	-64.25	-45.77	4.53

Note: EIRP = S.G Power value + Correction factor

Test mode		LTE B12 CH23017					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
1398.4	H	-47.44	-13	-34.44	-54.1	-49.23	3.94
2097.6	H	-53.38	-13	-40.38	-63.39	-56.8	5.57
2796.8	H	-53.14	-13	-40.14	-65.02	-57.48	6.49
1398.4	V	-34.47	-13	-21.47	-40.77	-36.26	3.94
2097.6	V	-51.84	-13	-38.84	-61.85	-55.26	5.57
2796.8	V	-53.99	-13	-40.99	-65.45	-58.33	6.49

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		GSM850 CH128					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
1648.4	H	-50.61	-13	-37.61	-56.82	-54.28	5.82
2472.6	H	-27.17	-13	-14.17	-37.49	-31.33	6.31
4121	H	-43.59	-13	-30.59	-58.74	-48.5	7.06
1648.4	V	-49.59	-13	-36.59	-55.52	-53.26	5.82
2472.6	V	-23.81	-13	-10.81	-34.31	-27.97	6.31
4121	V	-36	-13	-23	-50.74	-40.91	7.06

Note: ERP = S.G Power value + Correction factor - 2.15

4 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 Corp (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 http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C..

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

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