FCC CO-LOCATION RADIO TEST REPORT

FCC ID	:	A4RGWSQ2
Equipment	:	Wireless Device
Model Name	:	GWSQ2
Applicant	:	Google LLC 1600 Amphitheatre Parkway, Mountain View, CA, 94043 USA
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Feb. 18, 2025 and testing was performed from Mar. 25, 2025 to Mar. 31, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR4D1913I	01	Initial issue of report	Apr. 09, 2025
FR4D1913I	02	Revise Test Configuration of Equipment Under Test This report is an updated version, replacing the report issued on Apr. 09, 2025.	Apr. 17, 2025
FR4D1913I	03	Revise appendix A This report is an updated version, replacing the report issued on Apr. 17, 2025.	Apr. 24, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(d) 15.407(b)	Unwanted Emissions	Pass	-
3.2	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE/NTN, Bluetooth, BLE, BLE ASK, BLE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS **Antenna Type** WWAN: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna UWB: PIFA Antenna

EUT Information List	
S/N	**Performed Test Item**
51151WRCVL11SA	Radiated Spurious Emission

Antenna information		
2500 MHz ~ 2570 MHz	Peak Gain (dBi)	-6.6
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-3.4
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	-1.4
6489.6 MHz	Peak Gain (dBi)	1.8

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH13-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC Part 15 Subpart C §15.247
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

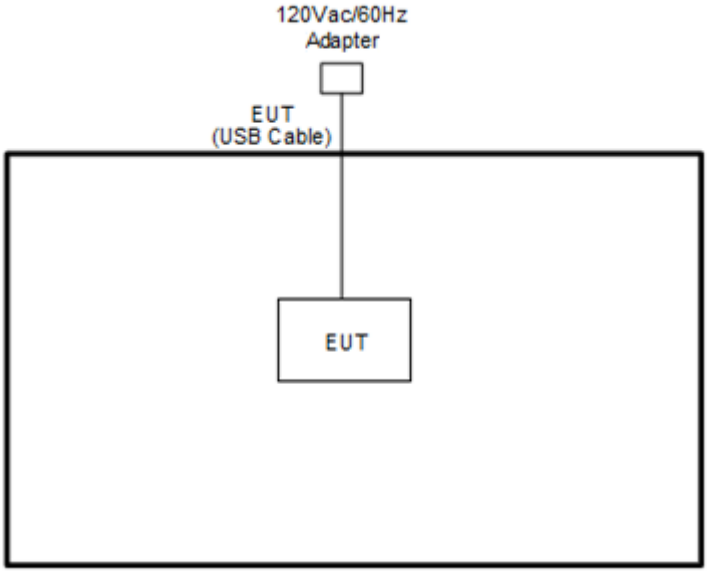
2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane with Adapter for mode 2 and Z plane with Adapter for mode 1 and mode 3 as worst plane.

2.1 Carrier Frequency and Channel

The detailed test modes are shown in Appendix A.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Adapter	N/A	N/A	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The RF test items, utility “Cmd Version 10.0.22631.5039” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

<For 2402 MHz ~ 2480 MHz>

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device is measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

<For 5150 MHz ~ 5250 MHz>

For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of –27dBm/MHz.

<For 5925 MHz ~ 6425 MHz>

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of −27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:
Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E=\frac{1000000\sqrt{30P}}{3}$$ μV/m, where P is the eirp (Watts)

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(2) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

   (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

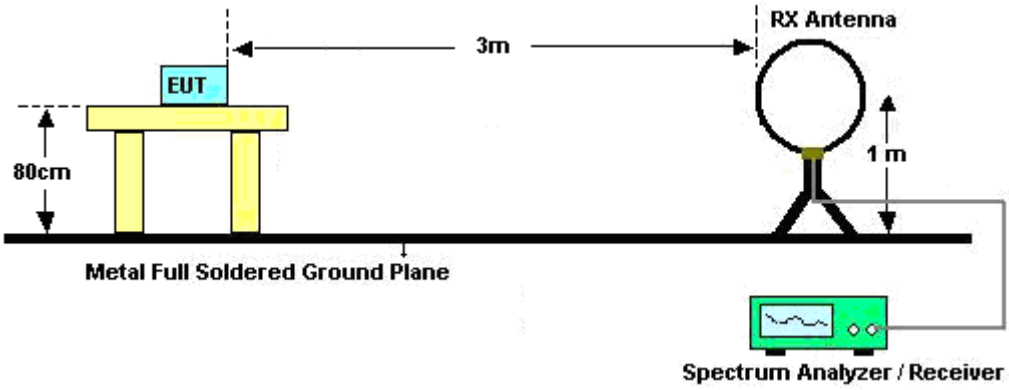
   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.

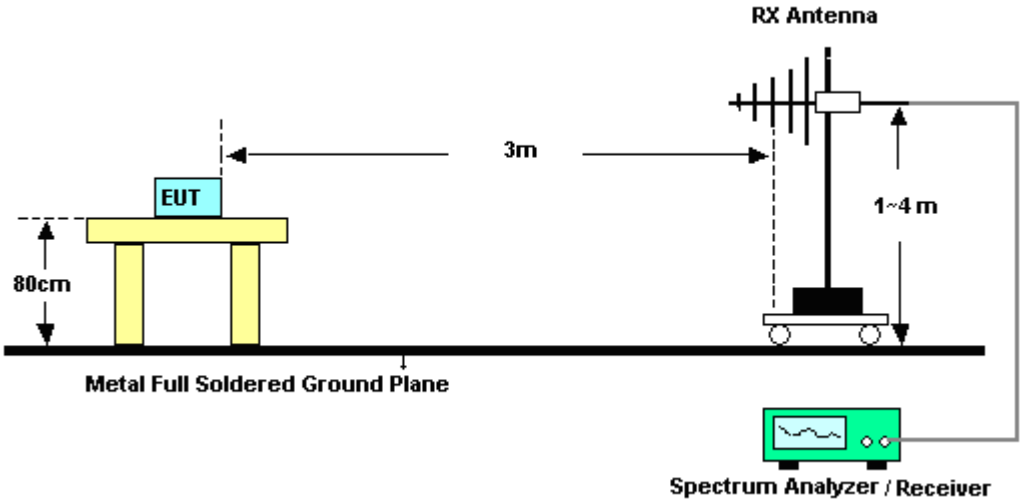
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.1.4 Test Setup

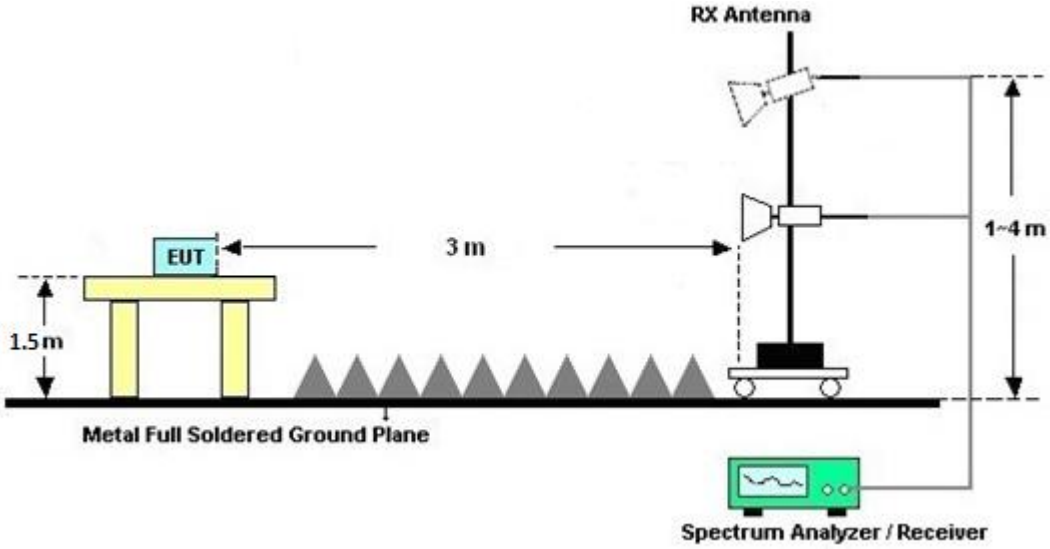
For radiated emissions below 30MHz



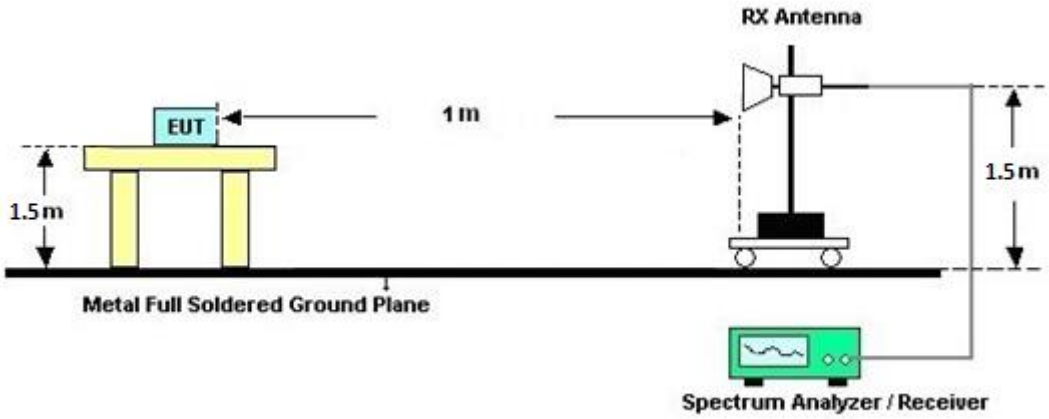
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.1.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.1.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

3.1.7 Duty Cycle

Please refer to Appendix B.

3.1.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix A.

3.2 Antenna Requirements

3.2.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.2.2 Antenna Anti-Replacement Construction

b) Unique (non-standard) antenna connector.

(3) Use of a standard connector is also allowed if the connector is within the transmitter enclosure and can only be accessed by disassembly of the transmitter, where such disassembly is not normally required. The user manual must not show that user has access to the connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 22, 2024	Mar. 25, 2025~ Mar. 31, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Nov. 28, 2024	Mar. 25, 2025~ Mar. 31, 2025	Nov. 27, 2025	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Mar. 25, 2025~ Mar. 31, 2025	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010180 0-30-10P	1590075	1GHz~18GHz	Apr. 19, 2024	Mar. 25, 2025~ Mar. 31, 2025	Apr. 18, 2025	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 01, 2024	Mar. 25, 2025~ Mar. 31, 2025	Sep. 30, 2025	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 05, 2024	Mar. 25, 2025~ Mar. 31, 2025	Aug. 04, 2025	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 22, 2025	Mar. 25, 2025~ Mar. 31, 2025	Mar. 21, 2026	Radiation (03CH07-HY)
Spectrum Analyzer	Keysight	N9010B	MY64320114	10Hz~44GHz	Oct. 05, 2024	Mar. 25, 2025~ Mar. 31, 2025	Oct. 04, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Mar. 25, 2025~ Mar. 31, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 14, 2024	Mar. 25, 2025~ Mar. 31, 2025	Sep. 13, 2025	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Mar. 25, 2025~ Mar. 31, 2025	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 22, 2024	Mar. 25, 2025~ Mar. 31, 2025	Apr. 21, 2025	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Mar. 25, 2025~ Mar. 31, 2025	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Mar. 25, 2025~ Mar. 31, 2025	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Mar. 25, 2025~ Mar. 31, 2025	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Mar. 25, 2025~ Mar. 31, 2025	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Mar. 25, 2025~ Mar. 31, 2025	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Mar. 25, 2025~ Mar. 31, 2025	Feb. 23, 2026	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz-40GHz	Jun. 04, 2024	Mar. 25, 2025~ Mar. 31, 2025	Jun. 03, 2025	Radiation (03CH07-HY)

5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.2 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.3 dB

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.9 dB

Appendix A. Radiated Spurious Emission

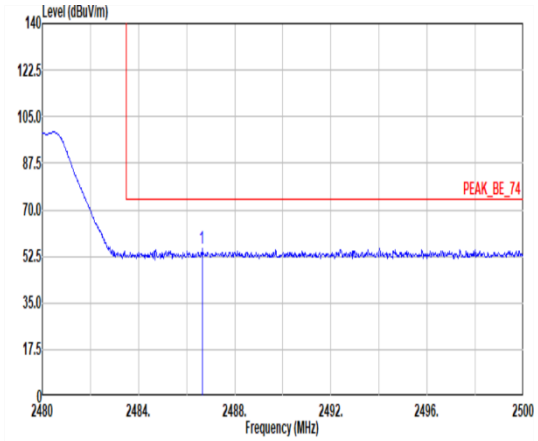
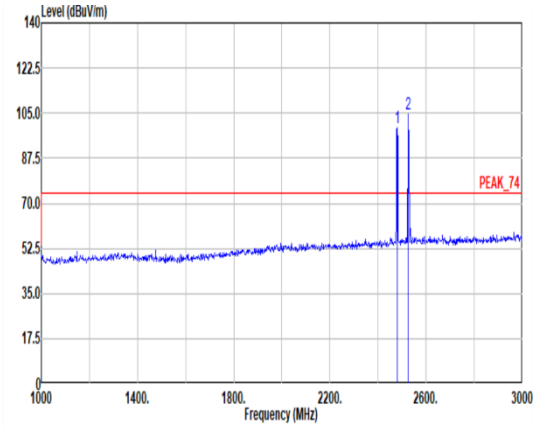
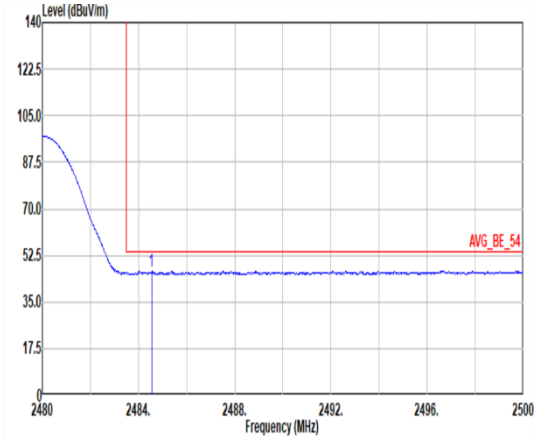
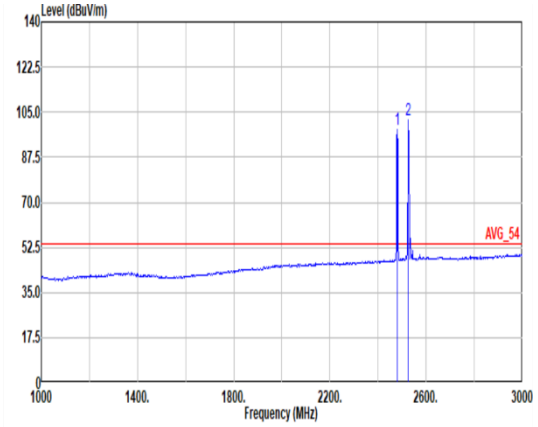
Test Engineer :	Rain Lee, Jacky Hong and White Hou	**Temperature :**	20~26°C
		Relative Humidity :	40~65%

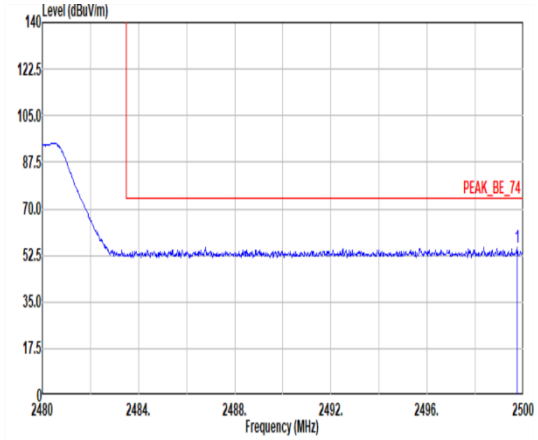
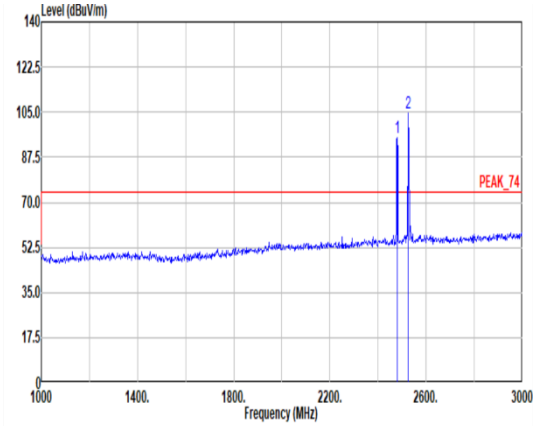
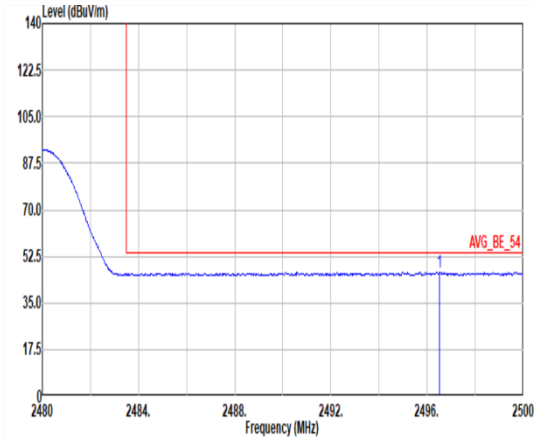
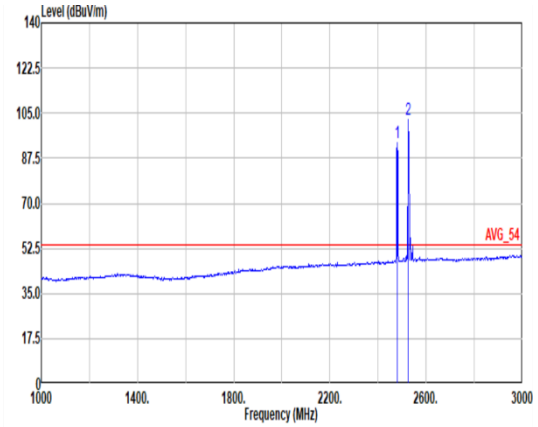
A1. Radiated Spurious Emission Test Modes

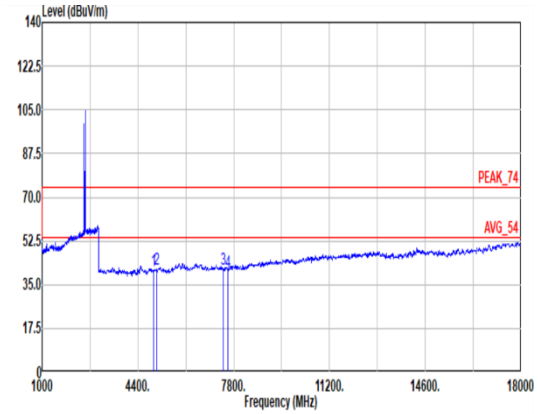
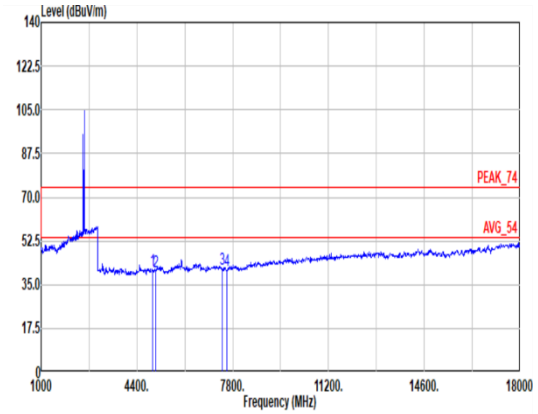
Mode	Mode	Remark
Mode 1	Bluetooth-LE 2Mbps Ch39	-
	LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	-
Mode 2	11g Ch11	-
	LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	-
	UWB Ch05 (BPRF9 SP0 STS0 127)	-
Mode 3	Bluetooth-LE 2Mbps Ch39	-
	11ac VHT80 Ch155	-
	LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	-

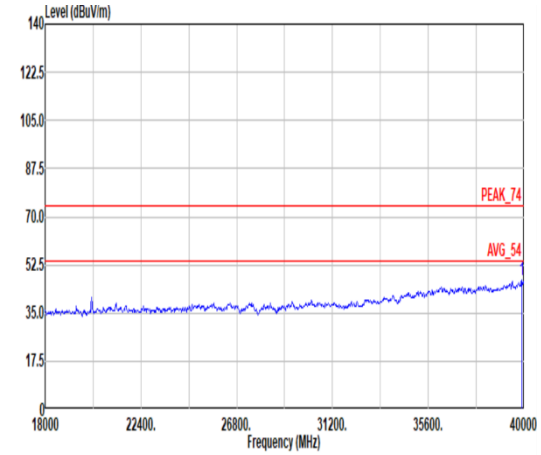
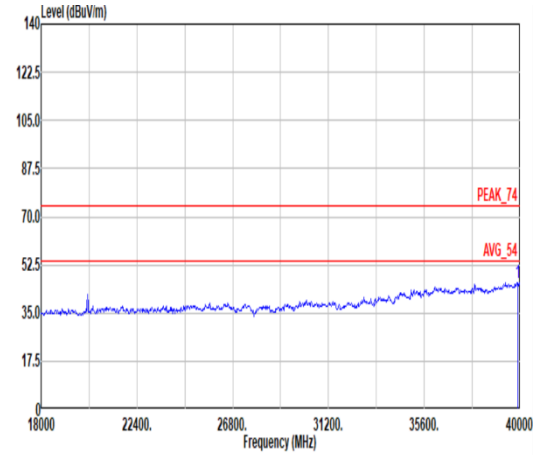
A2. Summary of each worse mode

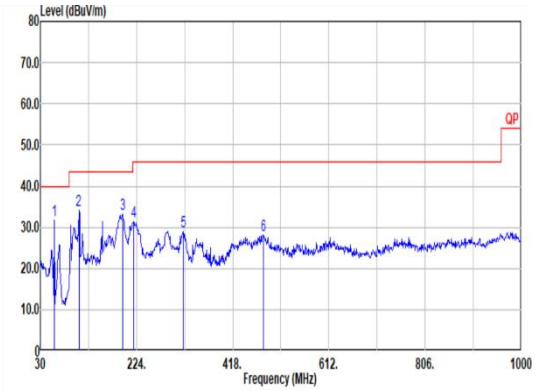
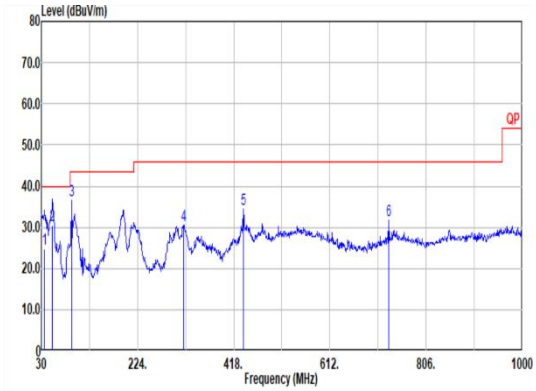
Mode	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	2484.54	46.73	54.00	-7.27	H	Avg.	Pass	-
2	2483.51	52.36	54.00	-1.64	V	Avg.	Pass	-
3	2500.00	46.93	54.00	-7.07	H	Avg.	Pass	-

Mode	1	
	Band Edge	
	Bluetooth-LE 2Mbps Ch39 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2486.64 55.35 74.00 -18.65 38.71 32.47 8.52 34.28 9.93 300 313 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 99.56 ------ ------ 83.00 32.40 8.51 34.28 9.93 300 313 PEAK 2 2526.00 104.40 ------ ------ 87.43 32.70 8.59 34.27 9.95 300 313 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2484.54 46.73 54.00 -7.27 30.11 32.45 8.52 34.28 9.93 300 313 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 98.22 ------ ------ 81.66 32.40 8.51 34.28 9.93 300 313 AVERAGE 2 2526.00 102.22 ------ ------ 85.25 32.70 8.59 34.27 9.95 300 313 AVERAGE

Mode	1	
	Band Edge	
	Bluetooth-LE 2Mbps Ch39 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2499.74 55.42 74.00 -18.58 38.61 32.60 8.54 34.27 9.94 301 221 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 95.18 ------ ------ 78.62 32.40 8.51 34.28 9.93 301 221 PEAK 2 2526.00 104.40 ------ ------ 87.43 32.70 8.59 34.27 9.95 301 221 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2496.52 46.68 54.00 -7.32 29.90 32.57 8.54 34.27 9.94 301 221 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 93.66 ------ ------ 77.10 32.40 8.51 34.28 9.93 301 221 AVERAGE 2 2526.00 102.36 ------ ------ 85.39 32.70 8.59 34.27 9.95 301 221 AVERAGE

Mode	1	
	Harmonic	
	Bluetooth-LE 2Mbps Ch39 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 40.62 74.00 -33.38 52.01 34.32 12.14 58.84 0.99 -- -- PEAK 2 5060.00 41.00 74.00 -33.00 52.21 34.12 12.26 58.57 0.98 -- -- PEAK 3 7440.00 41.06 74.00 -32.94 47.35 35.70 14.87 57.89 1.03 -- -- PEAK 4 7590.00 40.36 74.00 -33.64 46.39 35.88 14.98 57.90 1.01 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 40.58 74.00 -33.42 51.97 34.32 12.14 58.84 0.99 -- -- PEAK 2 5060.00 40.31 74.00 -33.69 51.52 34.12 12.26 58.57 0.98 -- -- PEAK 3 7440.00 41.26 74.00 -32.74 47.55 35.70 14.87 57.89 1.03 -- -- PEAK 4 7590.00 40.78 74.00 -33.22 46.81 35.88 14.98 57.90 1.01 -- -- PEAK

Mode	1	
	SHF	
	Bluetooth-LE 2Mbps Ch39 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
Peak	 Site : Condition: PEAK_74 1m SHF-EHF_9170991 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39890.00 47.28 74.00 -26.72 46.08 44.70 24.56 58.52 -9.54 -- -- Peak	 Site : Condition: PEAK_74 1m SHF-EHF_9170991 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39890.00 46.03 74.00 -27.97 44.83 44.70 24.56 58.52 -9.54 -- -- Peak

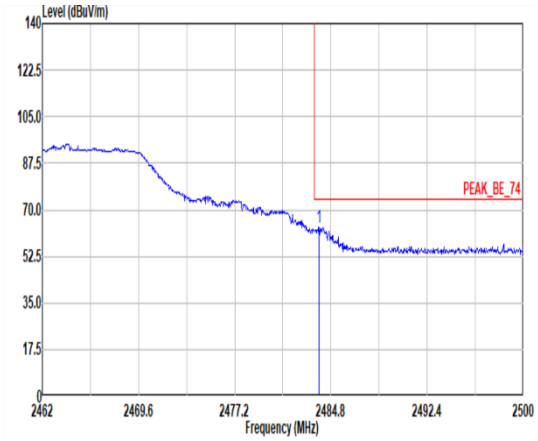
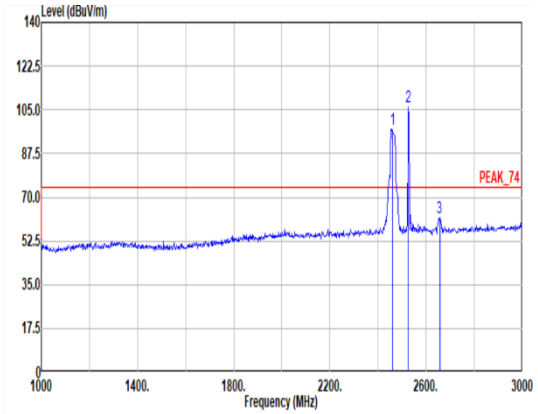
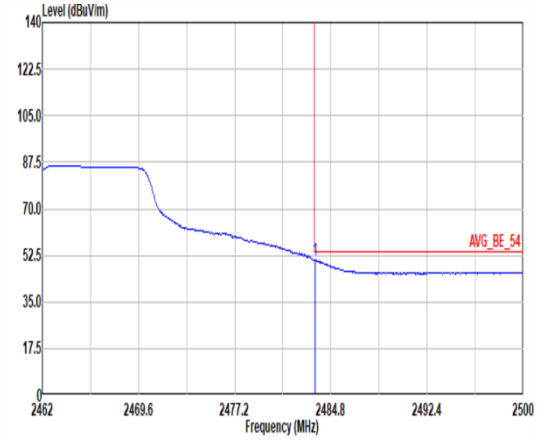
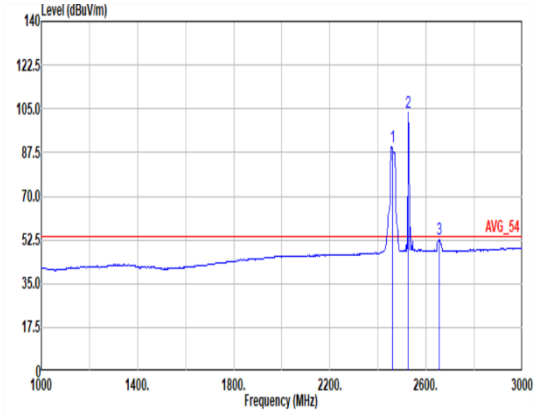
Mode	1	
	LF	
	Bluetooth-LE 2Mbps Ch39 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
QP/ Peak		

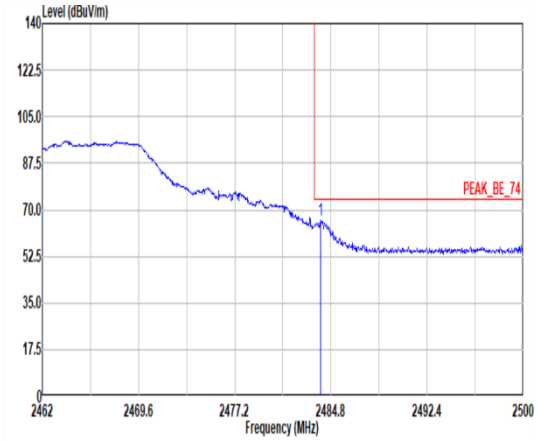
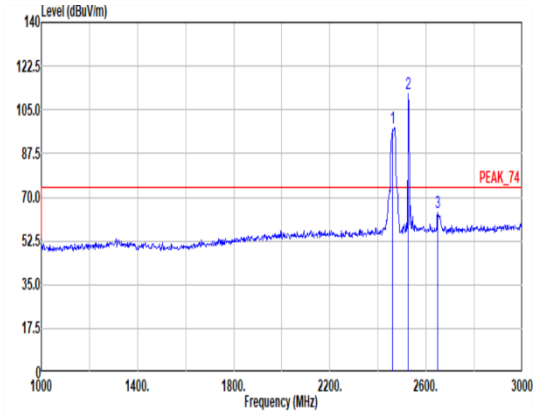
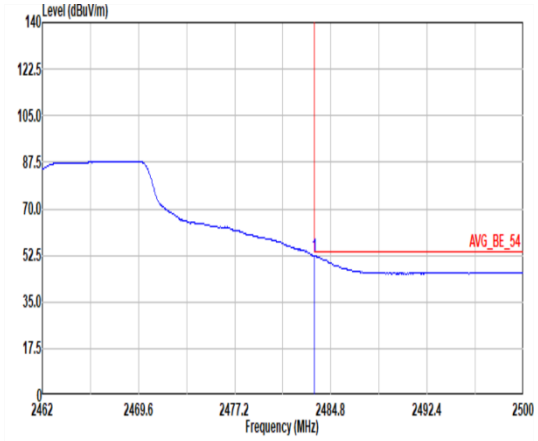
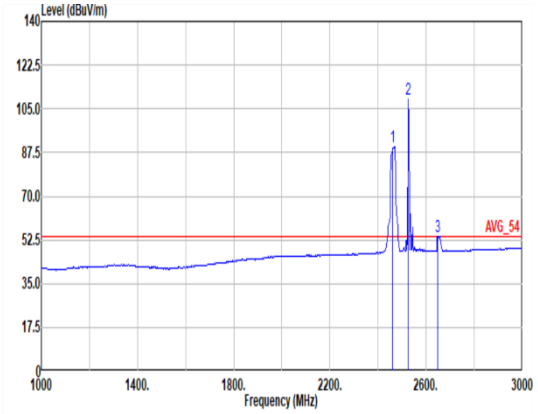
Site : 03CH07-HY
Condition: QP 3m Bilog_35419 HORIZONTAL

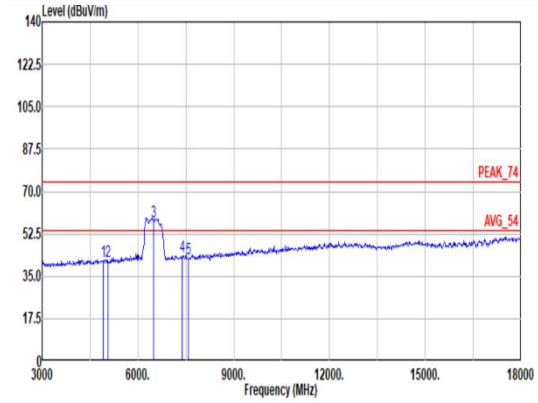
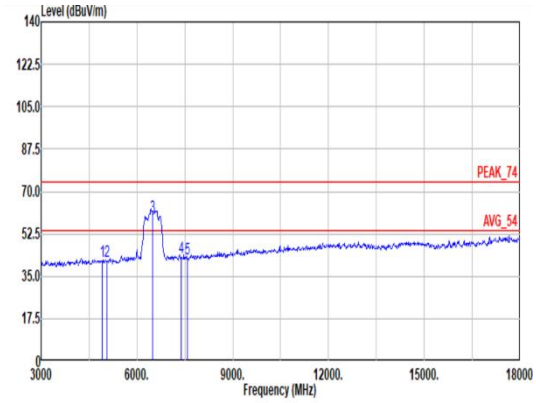
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	58.13	31.55	40.00	-8.45	48.04	12.05	1.39	29.93	0.00	--	--	PEAK
2	107.60	34.07	43.50	-9.43	45.60	16.52	1.86	29.91	0.00	--	--	PEAK
3	195.87	33.26	43.50	-10.24	45.89	14.73	2.48	29.84	0.00	--	--	PEAK
4	218.18	31.26	46.00	-14.74	43.40	15.09	2.60	29.83	0.00	--	--	PEAK
5	319.06	29.10	46.00	-16.90	36.46	19.33	3.12	29.81	0.00	--	--	PEAK
6	480.08	28.10	46.00	-17.90	30.94	23.16	3.79	29.79	0.00	--	--	PEAK

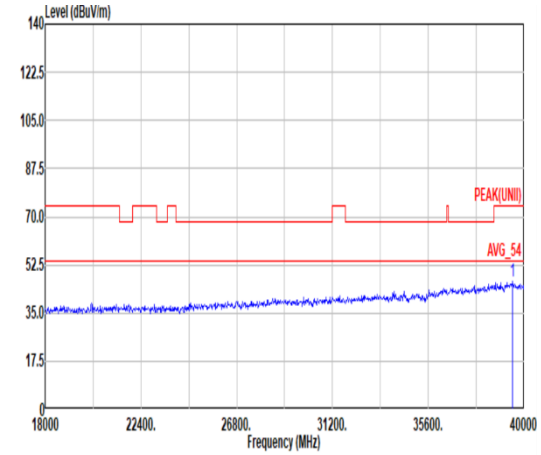
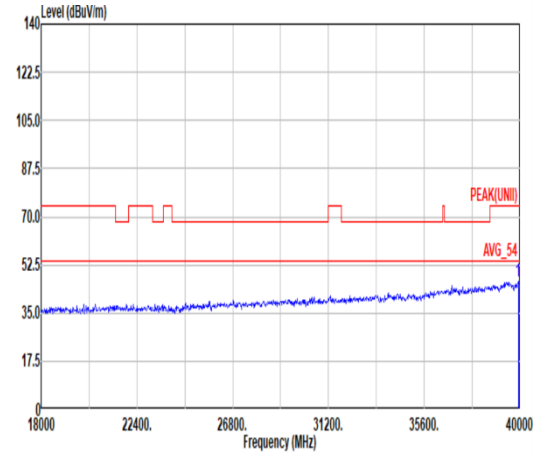
Site : 03CH07-HY
Condition: QP 3m Bilog_35419 VERTICAL

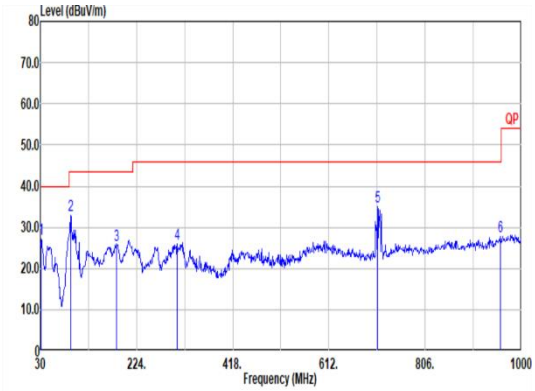
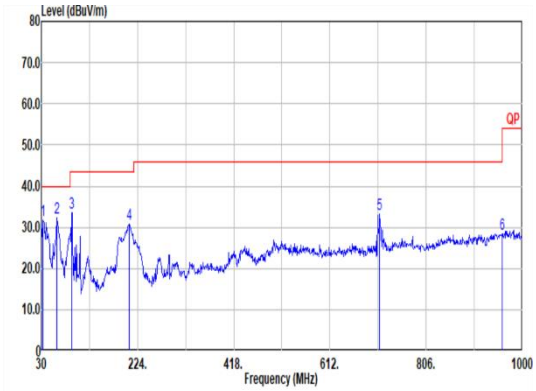
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	36.79	24.74	40.00	-15.26	32.29	21.30	1.13	29.98	0.00	100	198	QP
2	52.31	30.55	40.00	-9.45	45.75	13.43	1.31	29.94	0.00	100	65	QP
3	91.11	36.64	43.50	-6.86	50.09	14.76	1.71	29.92	0.00	--	--	PEAK
4	317.12	30.52	46.00	-15.48	37.90	19.33	3.11	29.82	0.00	--	--	PEAK
5	437.40	34.47	46.00	-11.53	38.31	22.32	3.60	29.76	0.00	--	--	PEAK
6	730.34	31.69	46.00	-14.31	30.07	26.46	4.64	29.48	0.00	--	--	PEAK

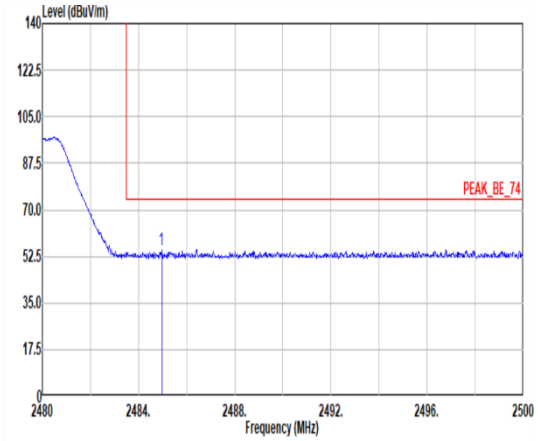
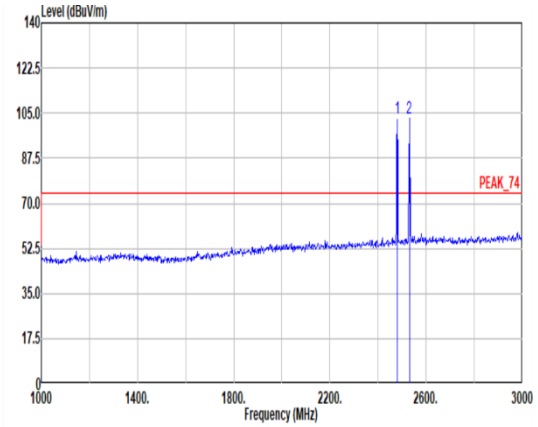
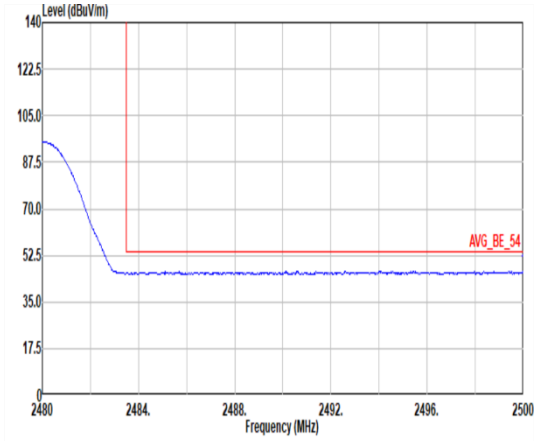
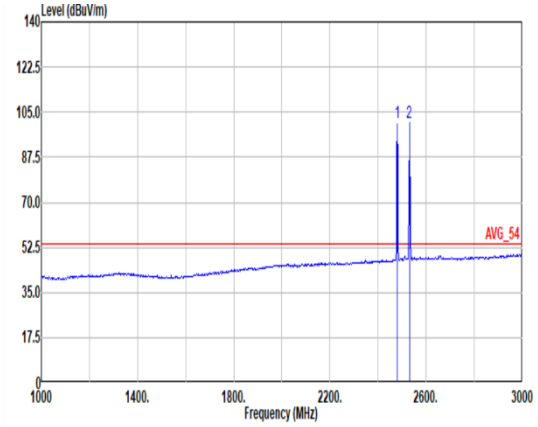
Mode	2	
	Band Edge	
	802.11g CH11 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100) + UWB Ch05 (BPRF9 SP0 STS0 127)	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.85 63.52 74.00 -10.48 47.31 32.44 8.52 34.68 9.93 100 185 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2462.00 97.36 ------ ------ 81.32 32.32 8.48 34.68 9.92 100 185 PEAK 2 2526.00 106.12 ------ ------ 89.56 32.70 8.59 34.68 9.95 100 185 PEAK 3 2656.00 62.00 ------ ------ 45.36 32.50 8.85 34.70 9.99 100 185 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.55 50.63 54.00 -3.37 34.42 32.44 8.52 34.68 9.93 100 185 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2462.00 89.75 ------ ------ 73.71 32.32 8.48 34.68 9.92 100 185 AVERAGE 2 2526.00 103.49 ------ ------ 86.93 32.70 8.59 34.68 9.95 100 185 AVERAGE 3 2654.00 52.69 ------ ------ 36.05 32.50 8.85 34.70 9.99 100 185 AVERAGE

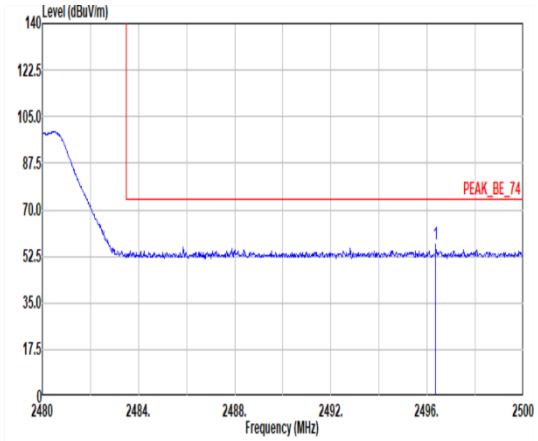
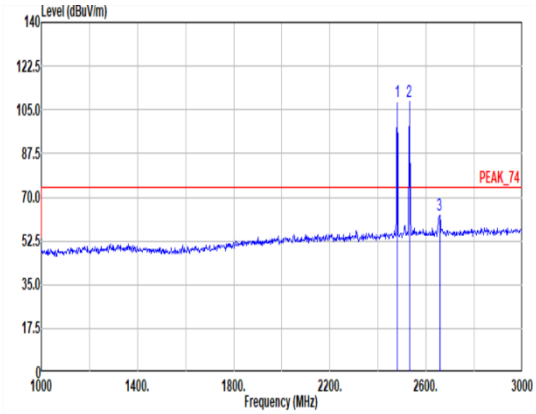
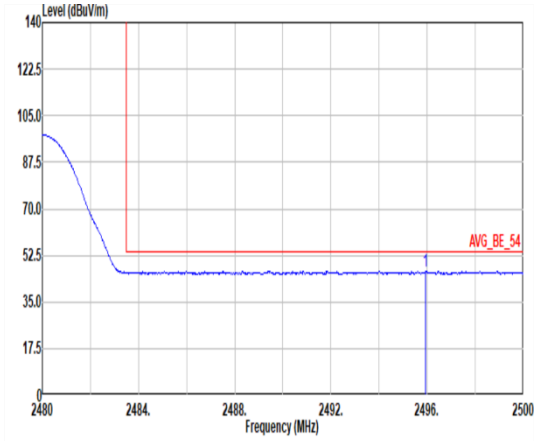
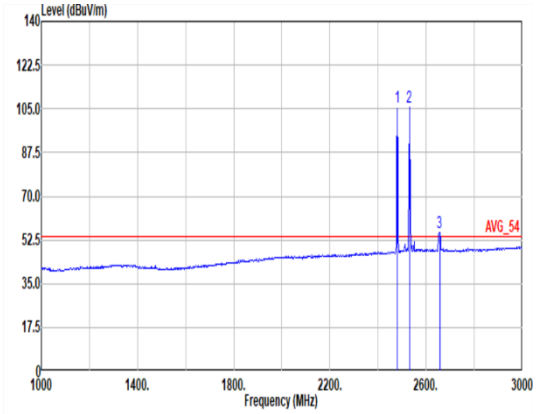
Mode	2	
	Band Edge	
	802.11g CH11 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100) + UWB Ch05 (BPRF9 SP0 STS0 127)	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2484.00 65.88 74.00 -8.12 49.67 32.44 8.52 34.68 9.93 322 175 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2462.00 97.86 ------ ------ 81.82 32.32 8.48 34.68 9.92 322 175 PEAK 2 2526.00 111.44 ------ ------ 94.88 32.70 8.59 34.68 9.95 322 175 PEAK 3 2648.00 63.80 ------ ------ 47.17 32.50 8.83 34.69 9.99 322 175 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 2483.51 52.36 54.00 -1.64 36.15 32.44 8.52 34.68 9.93 322 175 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 2462.00 89.68 ------ ------ 73.64 32.32 8.48 34.68 9.92 322 175 AVERAGE 2 2526.00 108.89 ------ ------ 92.33 32.70 8.59 34.68 9.95 322 175 AVERAGE 3 2648.00 54.15 ------ ------ 37.52 32.50 8.83 34.69 9.99 322 175 AVERAGE

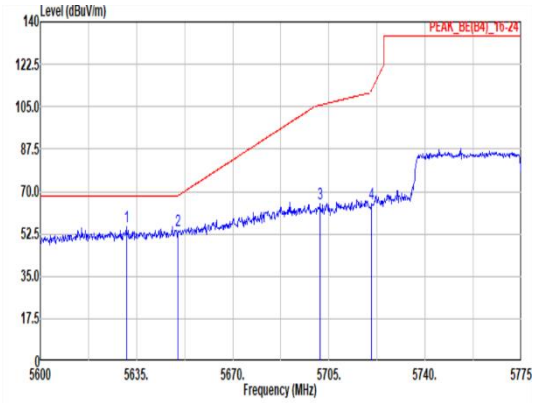
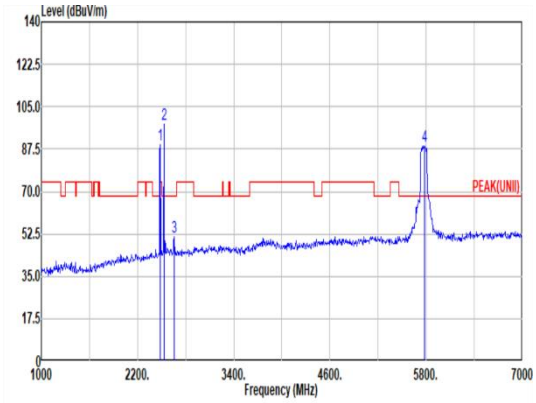
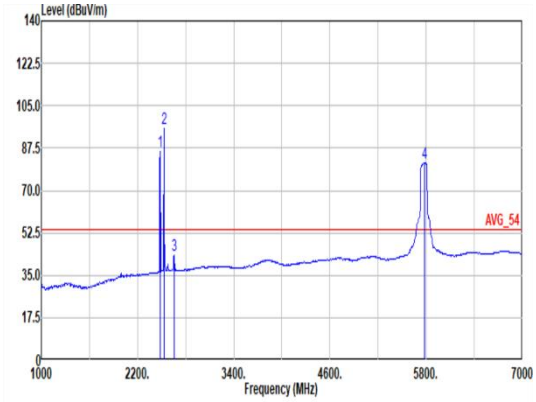
Mode	2	
	Harmonic	
	802.11g CH11 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100) + UWB Ch05 (BPRF9 SP0 STS0 127)	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4924.00 41.28 74.00 -32.72 52.88 34.25 12.09 58.92 0.98 -- -- PEAK 2 5060.00 41.31 74.00 -32.69 52.52 34.12 12.26 58.57 0.98 -- -- PEAK 3 6500.00 57.61 ------ ------ 63.14 35.60 13.88 56.00 0.99 -- -- PEAK 4 7386.00 43.30 74.00 -30.70 49.57 35.70 14.82 57.82 1.03 -- -- PEAK 5 7590.00 42.24 74.00 -31.76 48.27 35.88 14.98 57.90 1.01 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4924.00 41.14 74.00 -32.86 52.74 34.25 12.09 58.92 0.98 -- -- PEAK 2 5060.00 41.42 74.00 -32.58 52.63 34.12 12.26 58.57 0.98 -- -- PEAK 3 6500.00 59.88 ------ ------ 65.41 35.60 13.88 56.00 0.99 -- -- PEAK 4 7386.00 42.98 74.00 -31.02 49.25 35.70 14.82 57.82 1.03 -- -- PEAK 5 7590.00 42.52 74.00 -31.48 48.55 35.88 14.98 57.90 1.01 -- -- PEAK

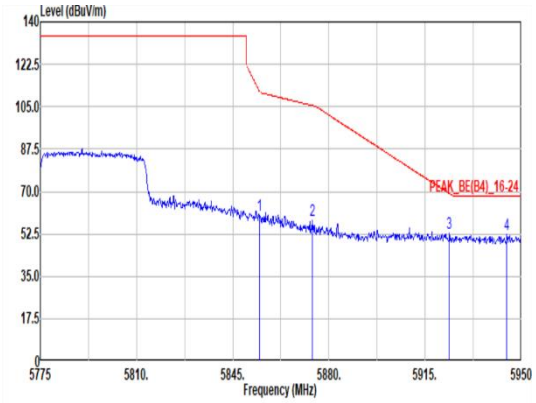
Mode	2	
	SHF	
	802.11g CH11 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100) + UWB Ch05 (BPRF9 SP0 STS0 127)	
Pol.	Horizontal	Vertical
Peak	 Site : Condition: PEAK(UNII) 1m SHF-EHF_9170991 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39472.00 46.63 74.00 -27.37 46.22 44.90 24.41 59.36 -9.54 -- -- PEAK	 Site : Condition: PEAK(UNII) 1m SHF-EHF_9170991 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39912.00 46.33 74.00 -27.67 45.06 44.72 24.57 58.48 -9.54 -- -- PEAK

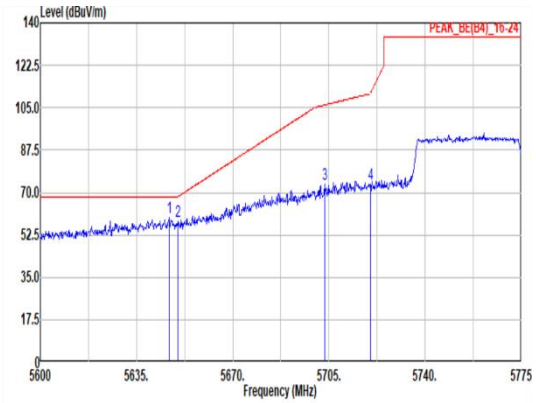
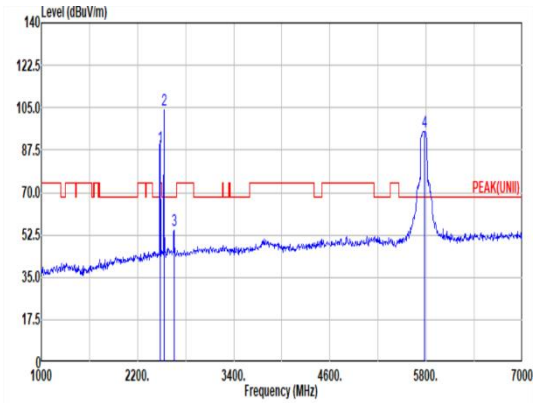
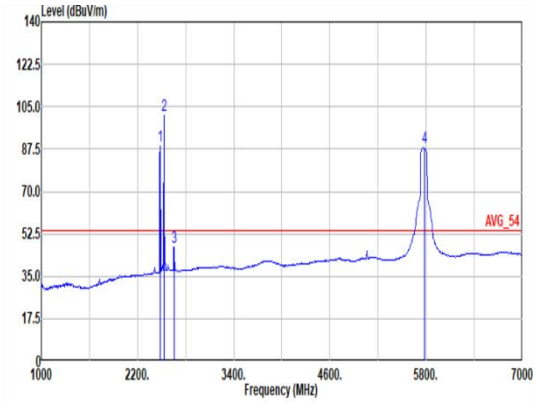
Mode	2	
	LF	
	802.11g CH11 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100) + UWB Ch05 (BPRF9 SP0 STS0 127)	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH07-HY Condition: QP 3m Bilog_35419 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 30.97 27.17 40.00 -12.83 32.10 24.01 1.04 29.98 0.00 -- -- PEAK 2 91.11 32.98 43.50 -10.52 46.43 14.76 1.71 29.92 0.00 -- -- PEAK 3 183.26 25.81 43.50 -17.69 38.48 14.80 2.39 29.86 0.00 -- -- PEAK 4 306.45 25.99 46.00 -20.01 33.65 19.10 3.06 29.82 0.00 -- -- PEAK 5 709.97 34.94 46.00 -11.06 33.73 26.17 4.55 29.51 0.00 -- -- PEAK 6 957.32 27.67 46.00 -18.33 21.19 29.68 5.35 28.55 0.00 -- -- PEAK	 Site : 03CH07-HY Condition: QP 3m Bilog_35419 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 33.88 31.67 40.00 -8.33 37.78 22.79 1.08 29.98 0.00 -- -- PEAK 2 62.01 32.16 40.00 -7.84 48.63 12.03 1.43 29.93 0.00 -- -- PEAK 3 91.11 33.59 43.50 -9.91 47.04 14.76 1.71 29.92 0.00 -- -- PEAK 4 207.51 30.75 43.50 -12.75 42.98 15.05 2.55 29.83 0.00 -- -- PEAK 5 711.91 33.24 46.00 -12.76 31.71 26.48 4.56 29.51 0.00 -- -- PEAK 6 959.26 28.46 46.00 -17.54 21.90 29.74 5.35 28.53 0.00 -- -- PEAK

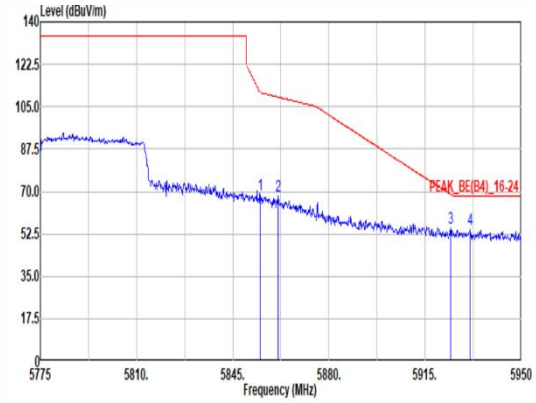
Mode	3	
	Band Edge	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2484.96 55.11 74.00 -18.89 38.49 32.45 8.52 34.28 9.93 321 260 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.19 ------ ------ 86.63 32.40 8.51 34.28 9.93 321 260 PEAK 2 2530.00 103.19 ------ ------ 86.22 32.70 8.59 34.27 9.95 321 260 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2500.00 46.93 54.00 -7.07 30.11 32.60 8.55 34.27 9.94 321 260 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 101.16 ------ ------ 84.19 32.70 8.59 34.27 9.95 321 260 AVERAGE 2 2530.00 101.16 ------ ------ 84.19 32.70 8.59 34.27 9.95 321 260 AVERAGE

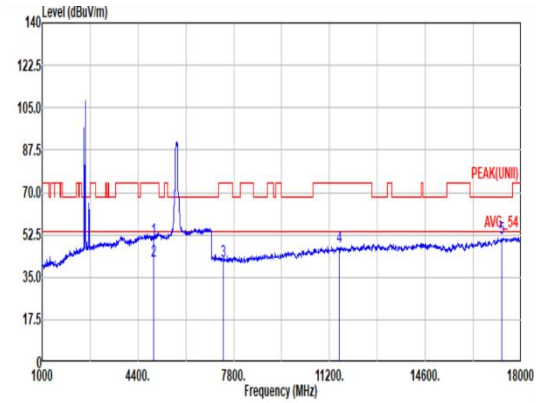
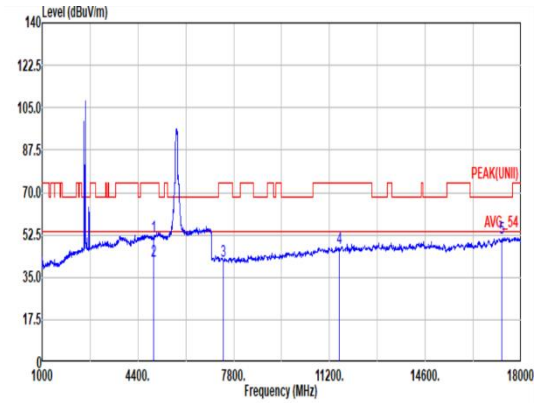
Mode	3	
	Band Edge	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2496.36 56.89 74.00 -17.11 40.12 32.56 8.54 34.27 9.94 100 176 PEAK	 Site : 03CH07-HY Condition: PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2480.00 108.10 ------ ------ 91.54 32.40 8.51 34.28 9.93 100 176 PEAK 2 2530.00 108.10 ------ ------ 91.13 32.70 8.59 34.27 9.95 100 176 PEAK 3 2656.00 62.85 ------ ------ 45.78 32.50 8.85 34.27 9.99 100 176 PEAK
Avg	 Site : 03CH07-HY Condition: AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto 1 2495.94 46.47 54.00 -7.53 29.70 32.56 8.54 34.27 9.94 100 176 AVERAGE	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto 1 2480.00 105.92 ------ ------ 89.36 32.40 8.51 34.28 9.93 100 176 AVERAGE 2 2530.00 105.92 ------ ------ 88.95 32.70 8.59 34.27 9.95 100 176 AVERAGE 3 2656.00 55.44 ------ ------ 38.37 32.50 8.85 34.27 9.99 100 176 AVERAGE

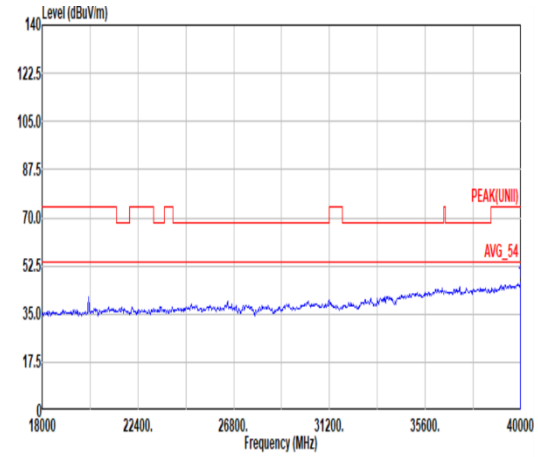
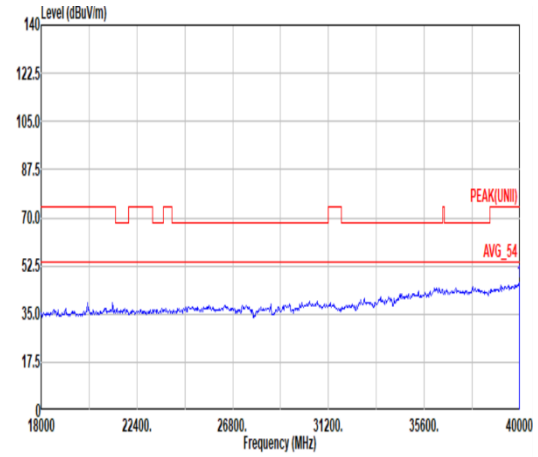
Mode	3	
	Band Edge - L	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 5631.33 55.37 68.20 -12.83 42.22 34.86 12.98 34.69 0.00 300 124 PEAK 2 5650.05 54.03 68.24 -14.21 40.84 34.90 12.99 34.70 0.00 300 124 PEAK 3 5701.85 65.22 105.72 -40.50 51.91 35.00 13.04 34.73 0.00 300 124 PEAK 4 5720.58 64.90 112.11 -47.21 51.59 35.00 13.05 34.74 0.00 300 124 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto 1 2480.00 89.07 ------ ------ 82.44 32.40 8.51 34.28 0.00 300 124 PEAK 2 2530.00 97.65 ------ ------ 90.63 32.70 8.59 34.27 0.00 300 124 PEAK 3 2656.00 51.13 ------ ------ 44.05 32.50 8.85 34.27 0.00 300 124 PEAK 4 5775.00 88.71 ------ ------ 75.38 35.00 13.10 34.77 0.00 300 124 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto 1 2480.00 86.19 ------ ------ 79.56 32.40 8.51 34.28 0.00 300 124 AVERAGE 2 2530.00 95.62 ------ ------ 88.60 32.70 8.59 34.27 0.00 300 124 AVERAGE 3 2656.00 43.13 ------ ------ 36.05 32.50 8.85 34.27 0.00 300 124 AVERAGE 4 5775.00 81.39 ------ ------ 68.06 35.00 13.10 34.77 0.00 300 124 AVERAGE

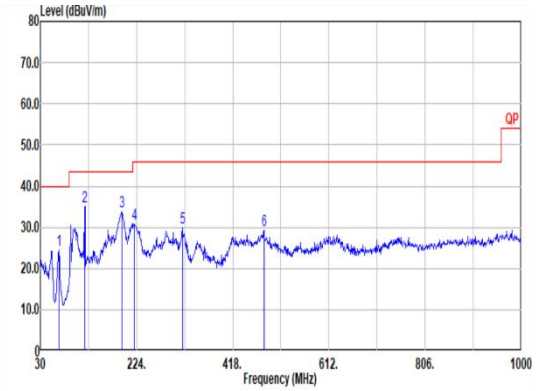
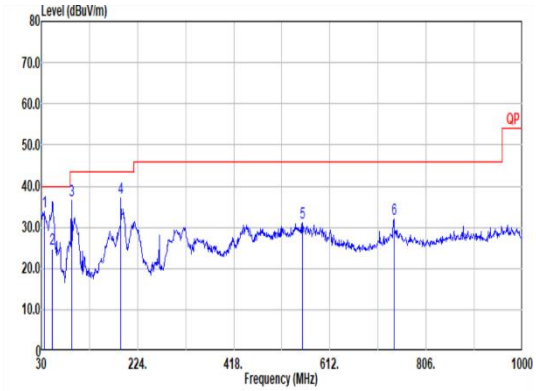
Mode	3	
	Band Edge - R	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.63 60.45 111.65 -51.20 47.05 35.02 13.20 34.82 0.00 300 124 PEAK 2 5874.05 57.89 105.47 -47.58 44.39 35.10 13.23 34.83 0.00 300 124 PEAK 3 5923.75 52.63 69.12 -16.49 38.98 35.20 13.31 34.86 0.00 300 124 PEAK 4 5944.75 52.17 68.20 -16.03 38.50 35.20 13.34 34.87 0.00 300 124 PEAK	Blank

Mode	3	
	Band Edge - L	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5646.90 59.49 68.20 -8.71 46.31 34.89 12.99 34.70 0.00 100 247 PEAK 2 5650.05 57.96 68.24 -10.28 44.77 34.90 12.99 34.70 0.00 100 247 PEAK 3 5703.43 73.36 106.16 -32.80 60.05 35.00 13.04 34.73 0.00 100 247 PEAK 4 5720.05 73.49 110.91 -37.42 60.18 35.00 13.05 34.74 0.00 100 247 PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 89.00 ------ ------ 82.37 32.40 8.51 34.28 0.00 100 247 PEAK 2 2530.00 104.03 ------ ------ 97.01 32.70 8.59 34.27 0.00 100 247 PEAK 3 2656.00 54.19 ------ ------ 47.11 32.50 8.85 34.27 0.00 100 247 PEAK 4 5775.00 95.24 ------ ------ 81.91 35.00 13.10 34.77 0.00 100 247 PEAK
Avg	Blank	 Site : 03CH07-HY Condition: AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 88.62 ------ ------ 81.99 32.40 8.51 34.28 0.00 100 247 AVERAGE 2 2530.00 101.60 ------ ------ 94.58 32.70 8.59 34.27 0.00 100 247 AVERAGE 3 2656.00 47.07 ------ ------ 39.99 32.50 8.85 34.27 0.00 100 247 AVERAGE 4 5775.00 88.13 ------ ------ 74.80 35.00 13.10 34.77 0.00 100 247 AVERAGE

Mode	3	
	Band Edge - R	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition: PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 5854.98 68.88 110.86 -41.98 55.48 35.02 13.20 34.82 0.00 100 247 PEAK 2 5861.45 67.91 108.99 -41.08 54.47 35.05 13.21 34.82 0.00 100 247 PEAK 3 5924.28 54.71 68.73 -14.02 41.06 35.20 13.31 34.86 0.00 100 247 PEAK 4 5931.45 54.59 68.20 -13.61 40.93 35.20 13.32 34.86 0.00 100 247 PEAK	Blank

Mode	3	
	Harmonic	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 50.81 74.00 -23.19 39.07 34.32 12.14 34.72 0.00 -- -- Peak 2 4960.00 41.58 54.00 -12.42 29.84 34.32 12.14 34.72 0.00 -- -- Average 3 7440.00 41.58 74.00 -32.42 47.62 35.70 14.87 57.89 1.28 -- -- Peak 4 11550.00 47.43 74.00 -26.57 45.80 38.30 19.01 56.88 1.20 -- -- PEAK 5 17325.00 51.47 68.20 -16.73 41.85 41.50 22.62 55.85 1.35 -- -- PEAK	 Site : 03CH07-HY Condition: PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 51.61 74.00 -22.39 39.87 34.32 12.14 34.72 0.00 -- -- Peak 2 4960.00 41.63 54.00 -12.37 29.89 34.32 12.14 34.72 0.00 -- -- Average 3 7440.00 41.64 74.00 -32.36 47.68 35.70 14.87 57.89 1.28 -- -- Peak 4 11550.00 47.09 74.00 -26.91 45.46 38.30 19.01 56.88 1.20 -- -- PEAK 5 17325.00 51.42 68.20 -16.78 41.80 41.50 22.62 55.85 1.35 -- -- PEAK

Mode	3	
	SHF	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
Peak	 Site : Condition: PEAK(UNII) 1m SHF-EHF_9170991 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39978.00 46.48 74.00 -27.52 44.97 44.80 24.59 58.34 -9.54 -- -- PEAK	 Site : Condition: PEAK(UNII) 1m SHF-EHF_9170991 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 39978.00 46.69 74.00 -27.31 45.18 44.80 24.59 58.34 -9.54 -- -- PEAK

Mode	3	
	LF	
	Bluetooth-LE 2Mbps Ch39 + 11ac VHT80 Ch155 + LTE Band 7 (BW20M 1RB0 QPSK Ch21100)	
Pol.	Horizontal	Vertical
QP/ Peak	 Site : 03CH07-HY Condition: QP 3m Bilog_35419 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 67.83 24.48 40.00 -15.52 40.63 12.30 1.48 29.93 0.00 -- -- PEAK 2 119.24 35.14 43.50 -8.36 45.89 17.19 1.96 29.90 0.00 -- -- PEAK 3 193.93 33.72 43.50 -9.78 46.42 14.67 2.47 29.84 0.00 -- -- PEAK 4 219.15 30.72 46.00 -15.28 42.77 15.17 2.61 29.83 0.00 -- -- PEAK 5 316.15 29.80 46.00 -16.20 37.19 19.33 3.10 29.82 0.00 -- -- PEAK 6 481.05 29.27 46.00 -16.73 32.13 23.14 3.79 29.79 0.00 -- -- PEAK	 Site : 03CH07-HY Condition: QP 3m Bilog_35419 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 35.82 33.81 40.00 -6.19 40.85 21.83 1.11 29.98 0.00 -- -- PEAK 2 52.31 24.70 40.00 -15.30 39.90 13.43 1.31 29.94 0.00 102 0 QP 3 91.11 36.47 43.50 -7.03 49.92 14.76 1.71 29.92 0.00 -- -- PEAK 4 190.05 37.15 43.50 -6.35 49.90 14.66 2.44 29.85 0.00 -- -- PEAK 5 556.71 31.05 46.00 -14.95 31.45 25.21 4.08 29.69 0.00 -- -- PEAK 6 741.01 32.05 46.00 -13.95 29.90 26.92 4.69 29.46 0.00 -- -- PEAK

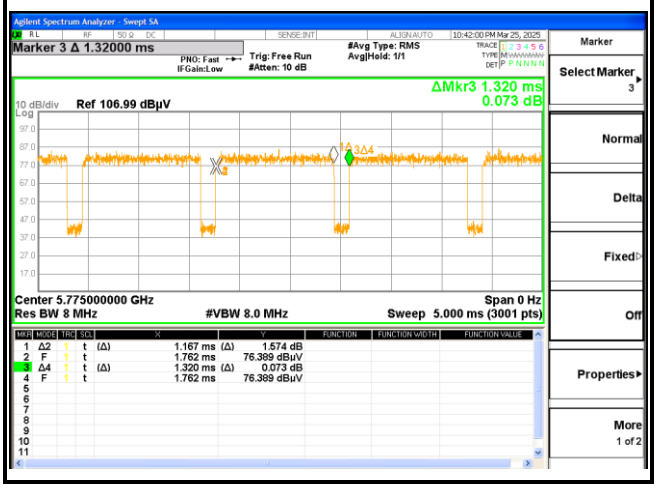
Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
Bluetooth - LE for 2Mbps	31.20	195	5.13	5.6kHz
2.4GHz 802.11g	90.55	1428	0.70	1kHz
5GHz 802.11ac VHT80	88.41	1167	0.86	1kHz

Bluetooth - LE for 2Mbps

2.4GHz 802.11g

5GHz 802.11ac VHT80



———THE END———