

3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

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. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.8.3 Test Procedures

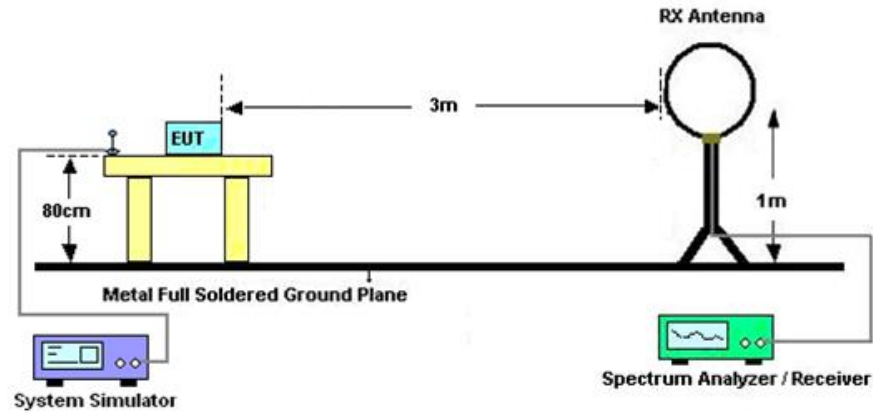
1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz, RBW=1MHz for $f > 1$ GHz ; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 * \log(\text{Duty cycle})$
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

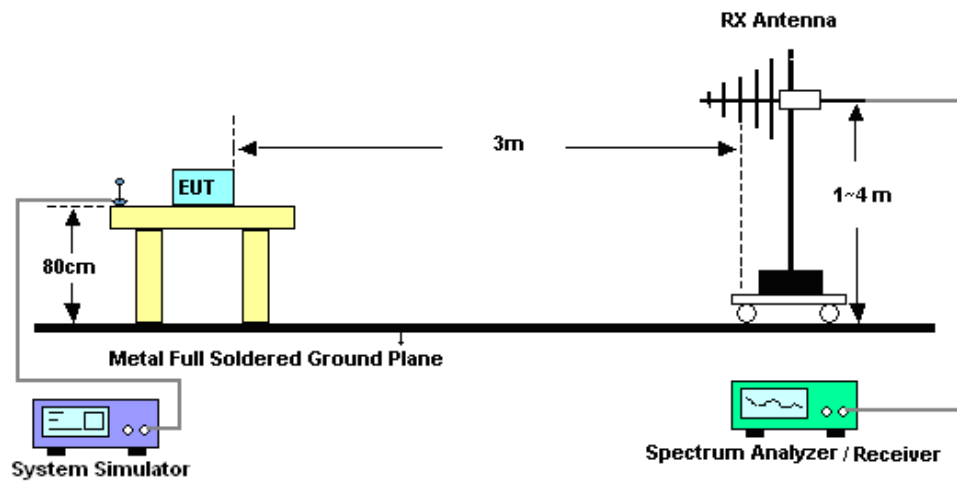
Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from $20 \log(\text{dwell time}/100\text{ms})$. This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

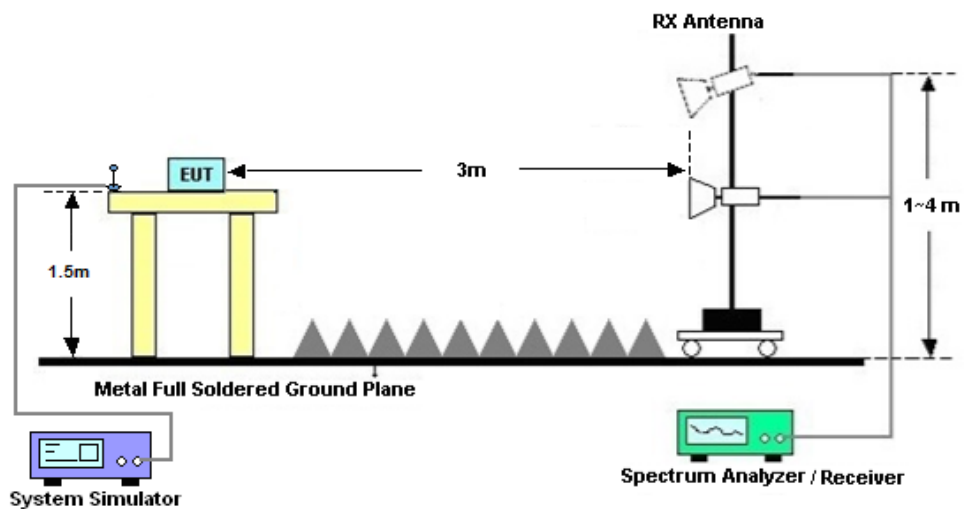
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

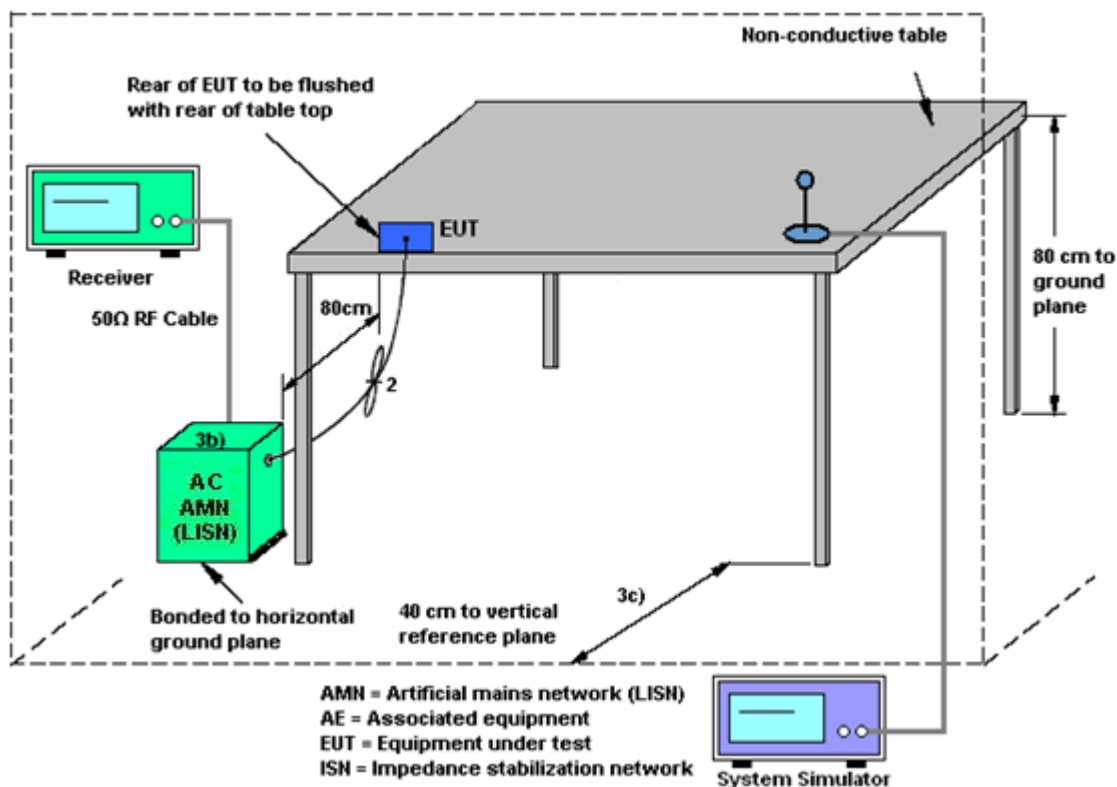
3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.9.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for Bluetooth BR/EDR modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.



			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
BT BF	-3.50	-0.10	1.38	1.38	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Oct. 19, 2022~Nov. 05, 2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2022	Oct. 19, 2022~Nov. 05, 2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2022	Oct. 19, 2022~Nov. 05, 2022	Jan. 04, 2023	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz; Max 30dBm	Oct. 12, 2022	Oct. 30, 2022	Oct. 11, 2023	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44GHz, MAX 30dB	Oct. 12, 2022	Oct. 30, 2022	Oct. 11, 2023	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 16, 2022	Oct. 30, 2022	Oct. 15, 2023	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Aug. 26, 2022	Oct. 30, 2022	Aug. 25, 2023	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 06, 2022	Oct. 30, 2022	Apr. 05, 2023	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz~18Ghz	Oct. 12, 2022	Oct. 30, 2022	Oct. 11, 2023	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2022	Oct. 30, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 05, 2022	Oct. 30, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Oct. 12, 2022	Oct. 30, 2022	Oct. 11, 2023	Radiation (03CH07-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 05, 2022	Oct. 30, 2022	Jan. 04, 2023	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Oct. 30, 2022	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Oct. 30, 2022	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Oct. 30, 2022	NCR	Radiation (03CH07-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 24, 2022	Oct. 21, 2022	May 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Oct. 21, 2022	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 24, 2022	Oct. 21, 2022	May 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Oct. 21, 2022	Oct. 11, 2023	Conduction (CO01-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.10 %
Conducted Power Spectral Density	±0.40 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.78dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Appendix A. Conducted Test Results

Report Number : FR291702A

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

Bluetooth Ant.1

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.949	0.854	1002.900	0.6329	Pass
DH	1Mbps	1	39	2441	0.949	0.851	1159.200	0.6329	Pass
DH	1Mbps	1	78	2480	0.947	0.851	1002.900	0.6310	Pass
2DH	2Mbps	1	0	2402	1.303	1.169	1159.200	0.8683	Pass
2DH	2Mbps	1	39	2441	1.303	1.169	972.500	0.8683	Pass
2DH	2Mbps	1	78	2480	1.303	1.169	1002.900	0.8683	Pass
3DH	3Mbps	1	0	2402	1.263	1.155	937.800	0.8423	Pass
3DH	3Mbps	1	39	2441	1.268	1.152	1159.200	0.8451	Pass
3DH	3Mbps	1	78	2480	1.263	1.152	994.200	0.8423	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.88	0.31	0.4	Pass
AFH	20	53.33	2.88	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	15.72	20.97	Pass
	39	1	16.48	20.97	Pass
	78	1	13.75	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	15.11	20.97	Pass
	39	1	16.15	20.97	Pass
	78	1	13.88	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	15.83	20.97	Pass
	39	1	16.86	20.97	Pass
	78	1	14.16	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

Bluetooth Ant.2

Test Engineer:	Kib Shi	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.949	0.854	998.600	0.6329	Pass
DH	1Mbps	1	39	2441	0.947	0.854	1007.200	0.6310	Pass
DH	1Mbps	1	78	2480	0.949	0.854	1002.900	0.6329	Pass
2DH	2Mbps	1	0	2402	1.298	1.172	1055.000	0.8654	Pass
2DH	2Mbps	1	39	2441	1.294	1.169	1167.900	0.8625	Pass
2DH	2Mbps	1	78	2480	1.298	1.169	1289.400	0.8654	Pass
3DH	3Mbps	1	0	2402	1.259	1.152	1159.200	0.8393	Pass
3DH	3Mbps	1	39	2441	1.259	1.155	1124.500	0.8393	Pass
3DH	3Mbps	1	78	2480	1.263	1.155	1028.900	0.8423	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec) (MHz)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.89	0.31	0.4	Pass
AFH	20	53.33	2.89	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	16.76	20.97	Pass
	39	1	17.32	20.97	Pass
	78	1	16.27	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	16.12	20.97	Pass
	39	1	16.63	20.97	Pass
	78	1	15.75	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	16.79	20.97	Pass
	39	1	17.29	20.97	Pass
	78	1	16.53	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

Bluetooth Ant.1

Test Engineer:	Jiang Jun	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.949	0.851	1002.900	0.6329	Pass
DH	1Mbps	1	39	2441	0.949	0.854	994.200	0.6329	Pass
DH	1Mbps	1	78	2480	0.949	0.857	998.600	0.6329	Pass
2DH	2Mbps	1	0	2402	1.303	1.172	998.600	0.8683	Pass
2DH	2Mbps	1	39	2441	1.303	1.169	1033.300	0.8683	Pass
2DH	2Mbps	1	78	2480	1.303	1.172	1198.300	0.8683	Pass
3DH	3Mbps	1	0	2402	1.263	1.152	916.100	0.8423	Pass
3DH	3Mbps	1	39	2441	1.263	1.152	1011.600	0.8423	Pass
3DH	3Mbps	1	78	2480	1.263	1.152	1163.500	0.8423	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.90	0.31	0.4	Pass
AFH	20	53.33	2.90	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	8.55	20.97	Pass
	39	1	10.79	20.97	Pass
	78	1	10.48	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	7.79	20.97	Pass
	39	1	9.81	20.97	Pass
	78	1	9.05	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	8.27	20.97	Pass
	39	1	10.18	20.97	Pass
	78	1	9.61	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

Bluetooth Ant.2

Test Engineer:	Jiang Jun	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

TEST RESULTS DATA**20dB and 99% Occupied Bandwidth and Hopping Channel Separation**

Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (KHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.947	0.854	1002.900	0.6310	Pass
DH	1Mbps	1	39	2441	0.949	0.860	998.600	0.6329	Pass
DH	1Mbps	1	78	2480	0.949	0.860	998.600	0.6329	Pass
2DH	2Mbps	1	0	2402	1.298	1.169	1115.800	0.8654	Pass
2DH	2Mbps	1	39	2441	1.303	1.169	1007.200	0.8683	Pass
2DH	2Mbps	1	78	2480	1.298	1.169	998.600	0.8654	Pass
3DH	3Mbps	1	0	2402	1.259	1.155	998.600	0.8393	Pass
3DH	3Mbps	1	39	2441	1.263	1.155	1167.900	0.8423	Pass
3DH	3Mbps	1	78	2480	1.263	1.152	1228.700	0.8423	Pass

TEST RESULTS DATA**Dwell Time**

Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time(hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
Nomal	79	106.67	2.90	0.31	0.4	Pass
AFH	20	53.33	2.90	0.15	0.4	Pass

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	8.55	20.97	Pass
	39	1	10.79	20.97	Pass
	78	1	10.48	20.97	Pass
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	1	7.79	20.97	Pass
	39	1	9.81	20.97	Pass
	78	1	9.05	20.97	Pass
3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	1	8.27	20.97	Pass
	39	1	10.18	20.97	Pass
	78	1	9.61	20.97	Pass

TEST RESULTS DATA**Number of Hopping Frequency**

Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	79	> 15	Pass

Bluetooth Ant.1+2

Test Engineer:	Jiang Jun	Temperature:	20~26	°C
Test Date:	2022/10/19~2022/11/5	Relative Humidity:	40~51	%

TEST RESULTS DATA**Peak Power Table**

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	2	13.74	20.97	Pass
	39	2	14.58	20.97	Pass
	78	2	14.63	20.97	Pass

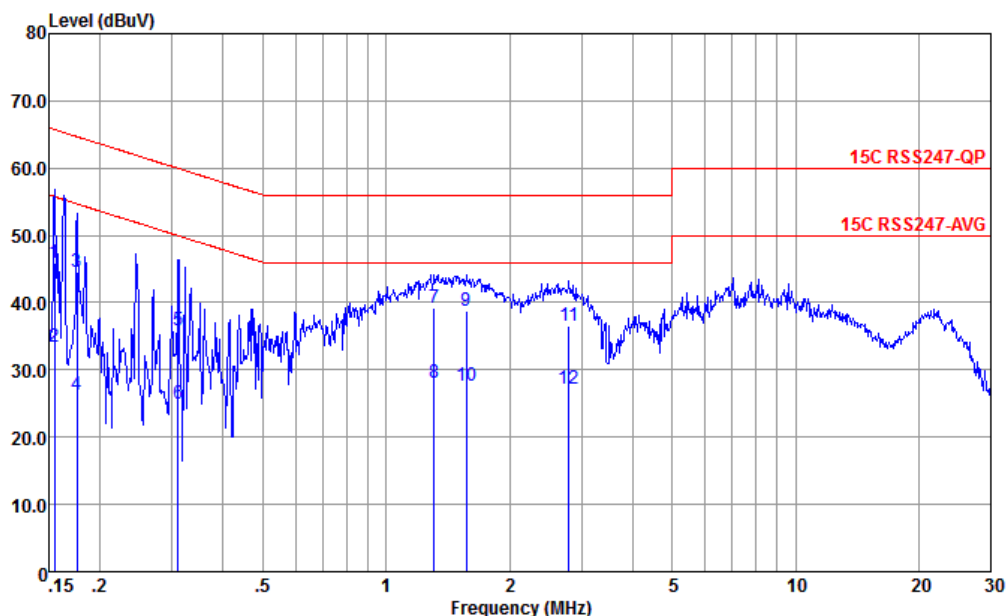
2DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
2DH1	0	2	12.48	20.97	Pass
	39	2	13.29	20.97	Pass
	78	2	12.48	20.97	Pass

3DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
3DH1	0	2	12.81	20.97	Pass
	39	2	13.63	20.97	Pass
	78	2	12.95	20.97	Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

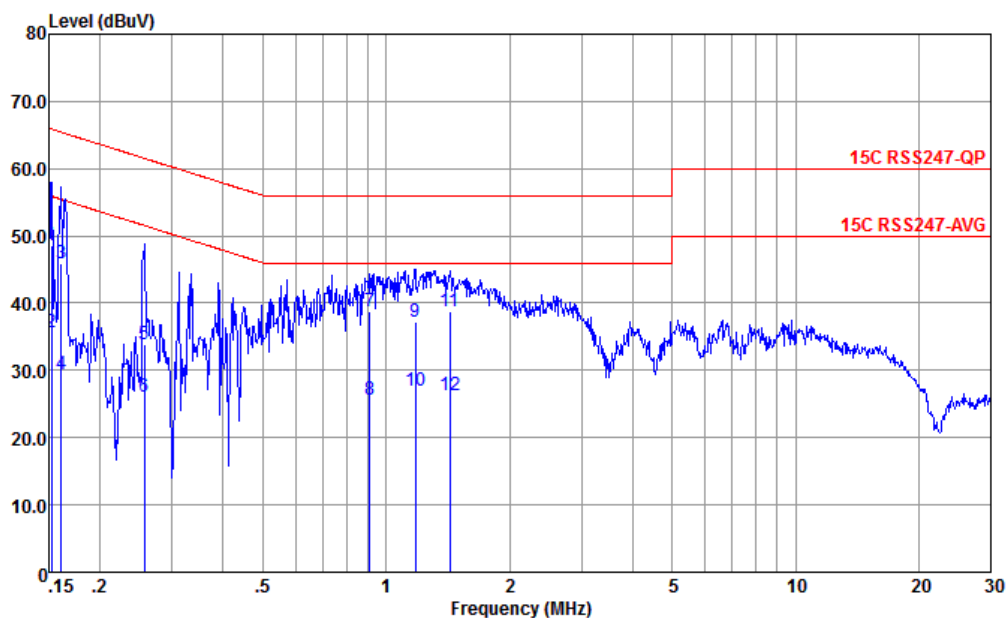


Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-LINE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.155	45.99	-19.75	65.74	35.50	0.06	10.43	QP
2	0.155	33.39	-22.35	55.74	22.90	0.06	10.43	Average
3	0.176	44.67	-20.01	64.68	34.21	0.04	10.42	QP
4	0.176	26.37	-28.31	54.68	15.91	0.04	10.42	Average
5	0.310	35.90	-24.07	59.97	25.51	0.05	10.34	QP
6	0.310	25.00	-24.97	49.97	14.61	0.05	10.34	Average
7 *	1.310	39.18	-16.82	56.00	29.20	-0.11	10.09	QP
8	1.310	28.18	-17.82	46.00	18.20	-0.11	10.09	Average
9	1.568	38.76	-17.24	56.00	28.79	-0.11	10.08	QP
10	1.568	27.56	-18.44	46.00	17.59	-0.11	10.08	Average
11	2.794	36.55	-19.45	56.00	26.59	-0.10	10.06	QP
12	2.794	27.15	-18.85	46.00	17.19	-0.10	10.06	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.152	48.66	-17.21	65.87	38.20	0.03	10.43	QP
2	0.152	35.66	-20.21	55.87	25.20	0.03	10.43	Average
3	0.161	45.96	-19.47	65.43	35.50	0.03	10.43	QP
4	0.161	29.36	-26.07	55.43	18.90	0.03	10.43	Average
5	0.256	33.96	-27.60	61.56	23.59	-0.01	10.38	QP
6	0.256	25.96	-25.60	51.56	15.59	-0.01	10.38	Average
7 *	0.914	38.82	-17.18	56.00	28.81	-0.11	10.12	QP
8	0.914	25.52	-20.48	46.00	15.51	-0.11	10.12	Average
9	1.178	37.18	-18.82	56.00	27.19	-0.11	10.10	QP
10	1.178	26.88	-19.12	46.00	16.89	-0.11	10.10	Average
11	1.433	38.77	-17.23	56.00	28.81	-0.12	10.08	QP
12	1.433	26.27	-19.73	46.00	16.31	-0.12	10.08	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	15	Bluetooth EDR_8-DPSK	00	2402	3Mbps	-	-
Mode 2	2400-2483.5	15	Bluetooth EDR_8-DPSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	15	Bluetooth EDR_8-DPSK	78	2480	3Mbps	-	-
Mode 4	2400-2483.5	18	Bluetooth EDR_8-DPSK	00	2402	3Mbps	-	-
Mode 5	2400-2483.5	18	Bluetooth EDR_8-DPSK	39	2441	3Mbps	-	-
Mode 6	2400-2483.5	18	Bluetooth EDR_8-DPSK	78	2480	3Mbps	-	-
Mode 7	2400-2483.5	BF 15+18	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 8	2400-2483.5	BF 15+18	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 9	2400-2483.5	BF 15+18	Bluetooth BR_GFSK	78	2480	1Mbps	-	-

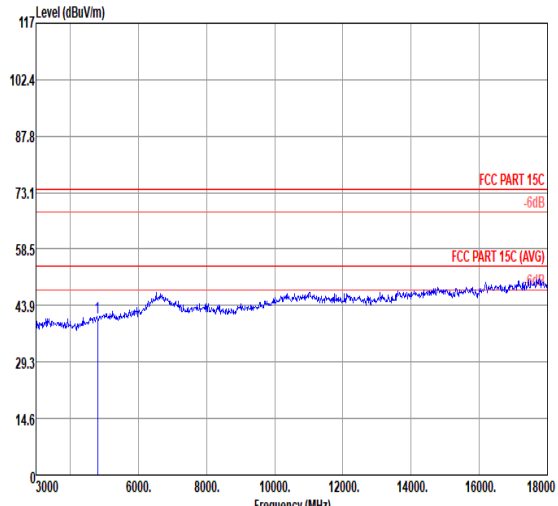
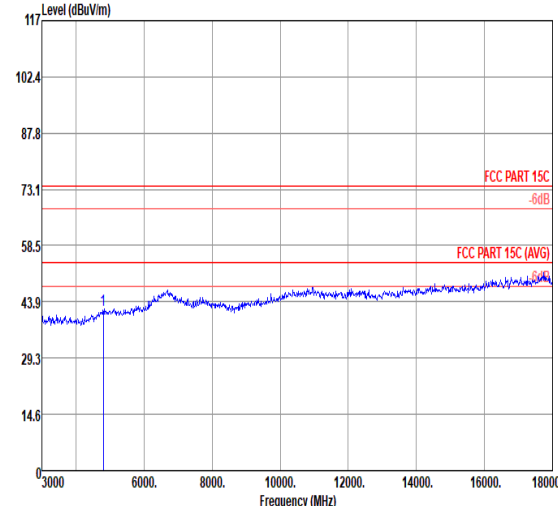
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth EDR_8-DPSK	00	2384.1	47.1	74	-26.9	H	PEAK	Pass	Band Edge
2	Bluetooth EDR_8-DPSK	39	7323	43.53	74	-30.47	H	PEAK	Pass	Harmonic
3	Bluetooth EDR_8-DPSK	78	2483.62	54.42	74	-19.58	V	PEAK	Pass	Band Edge
4	Bluetooth EDR_8-DPSK	00	2389.56	50.14	74	-23.86	H	PEAK	Pass	Band Edge
5	Bluetooth EDR_8-DPSK	39	7323	44.48	74	-29.52	H	PEAK	Pass	Harmonic
6	Bluetooth EDR_8-DPSK	78	2488.18	48.05	74	-25.95	V	PEAK	Pass	Band Edge
7	Bluetooth BR_GFSK	00	2325.21	56.09	74	-17.91	H	PEAK	Pass	Band Edge
8	Bluetooth BR_GFSK	39	7323.00	45.89	74	-28.11	H	PEAK	Pass	Harmonic
9	Bluetooth BR_GFSK	78	2484.01	60.86	74	-13.14	H	PEAK	Pass	Band Edge

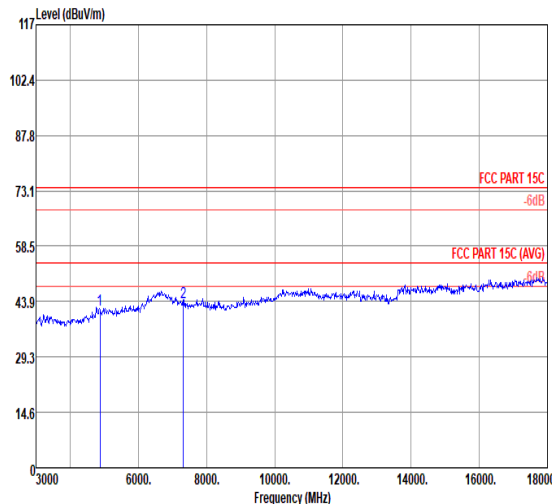
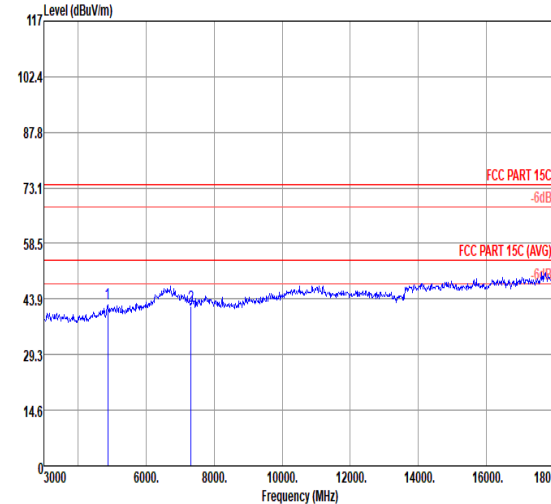


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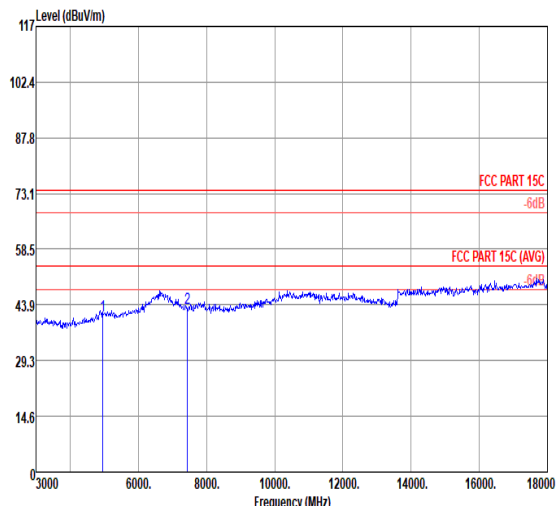
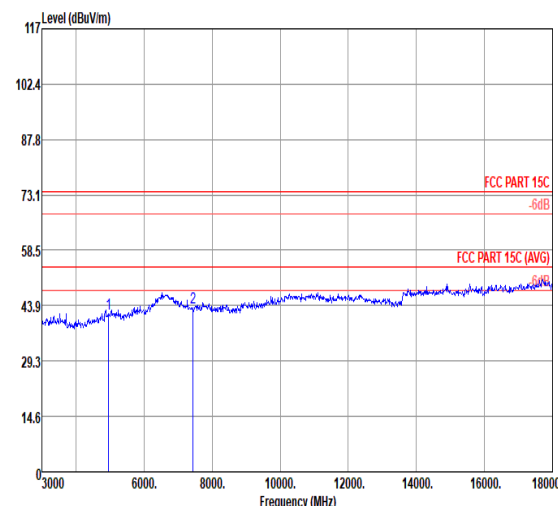


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Pol.	Horizontal	Fundamental																																																																																																
Peak	<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2484.52</td><td>47.97</td><td>74.00</td><td>-26.03</td><td>33.11</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>356 Peak</td></tr><tr><td>2</td><td>2484.52</td><td>23.18</td><td>54.00</td><td>-30.82</td><td>8.32</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>356 Average</td></tr></table>		Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2484.52	47.97	74.00	-26.03	33.11	32.23	7.28	30.65	6.00	100	356 Peak	2	2484.52	23.18	54.00	-30.82	8.32	32.23	7.28	30.65	6.00	100	356 Average	<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1 *</td><td>2480.00</td><td>97.06</td><td>74.00</td><td>23.06</td><td>82.20</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>356 Peak</td></tr><tr><td>2 *</td><td>2480.00</td><td>72.27</td><td>54.00</td><td>18.27</td><td>57.41</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>356 Average</td></tr></table>		Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1 *	2480.00	97.06	74.00	23.06	82.20	32.23	7.28	30.65	6.00	100	356 Peak	2 *	2480.00	72.27	54.00	18.27	57.41	32.23	7.28	30.65	6.00	100	356 Average
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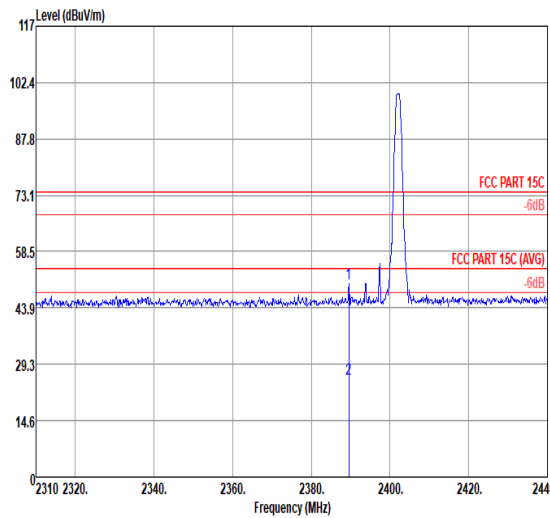
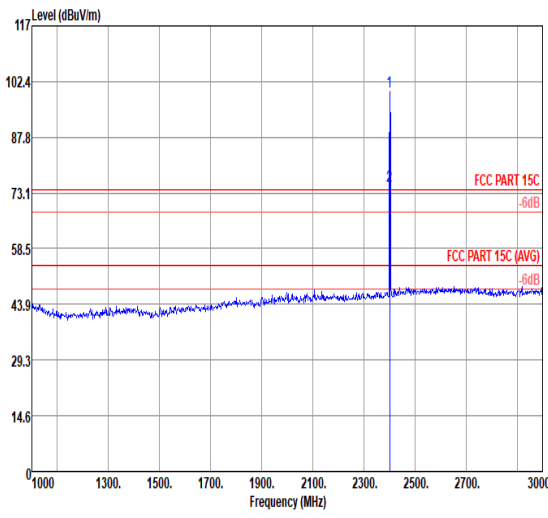


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	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark																																																																																																			
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1	4960.00	41.12	74.00	-32.88	55.66	34.23	10.51	65.28	6.00	100	0 Peak																																																																																																			
2	7440.00	43.11	74.00	-30.89	53.36	35.65	12.88	64.78	6.00	100	0 Peak																																																																																																			
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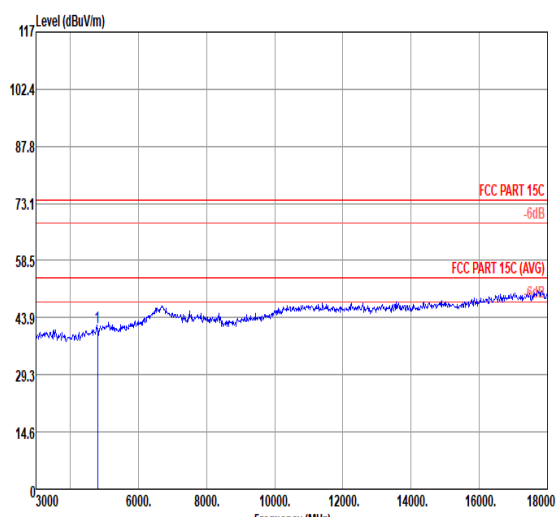
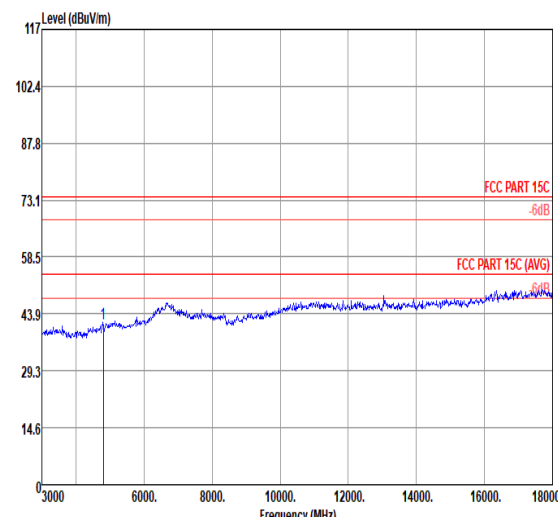


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ANT	18																																																																																																						
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Peak	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2389.56</td><td>50.14</td><td>74.00</td><td>-23.86</td><td>36.04</td><td>31.90</td><td>7.13</td><td>30.93</td><td>6.00</td><td>100</td><td>234 Peak</td></tr><tr><td>2</td><td>2389.56</td><td>25.35</td><td>54.00</td><td>-28.65</td><td>11.25</td><td>31.90</td><td>7.13</td><td>30.93</td><td>6.00</td><td>100</td><td>234 Average</td></tr></table>						Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	2389.56	50.14	74.00	-23.86	36.04	31.90	7.13	30.93	6.00	100	234 Peak	2	2389.56	25.35	54.00	-28.65	11.25	31.90	7.13	30.93	6.00	100	234 Average	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 *</td><td>2402.00</td><td>99.63</td><td>74.00</td><td>25.63</td><td>85.48</td><td>31.90</td><td>7.13</td><td>30.88</td><td>6.00</td><td>100</td><td>234 Peak</td></tr><tr><td>2 *</td><td>2402.00</td><td>74.84</td><td>54.00</td><td>20.84</td><td>60.69</td><td>31.90</td><td>7.13</td><td>30.88</td><td>6.00</td><td>100</td><td>234 Average</td></tr></table>					Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1 *	2402.00	99.63	74.00	25.63	85.48	31.90	7.13	30.88	6.00	100	234 Peak	2 *	2402.00	74.84	54.00	20.84	60.69	31.90	7.13	30.88	6.00	100	234 Average
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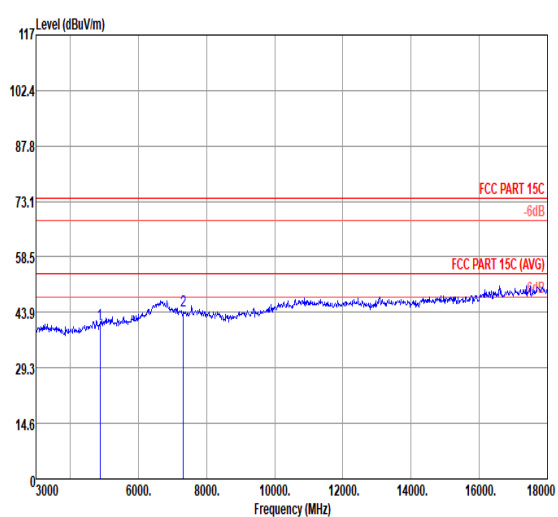
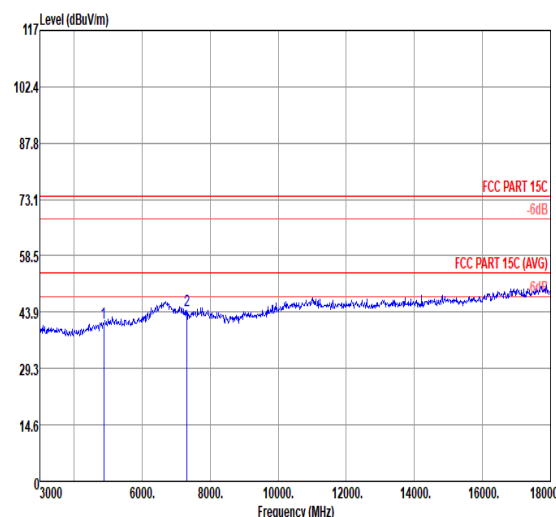


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Peak	Level (dBuV/m) Frequency (MHz) FCC PART 15C -6dB FCC PART 15C (AVG) -6dB <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2350.43</td><td>46.95</td><td>74.00</td><td>-27.05</td><td>33.08</td><td>31.80</td><td>7.06</td><td>30.99</td><td>6.00</td><td>100</td><td>130 Peak</td></tr><tr><td>2</td><td>2350.43</td><td>22.16</td><td>54.00</td><td>-31.84</td><td>8.29</td><td>31.80</td><td>7.06</td><td>30.99</td><td>6.00</td><td>100</td><td>130 Average</td></tr></table>	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1	2350.43	46.95	74.00	-27.05	33.08	31.80	7.06	30.99	6.00	100	130 Peak	2	2350.43	22.16	54.00	-31.84	8.29	31.80	7.06	30.99	6.00	100	130 Average	Level (dBuV/m) Frequency (MHz) FCC PART 15C -6dB FCC PART 15C (AVG) -6dB <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 *</td><td>2402.00</td><td>96.40</td><td>74.00</td><td>22.40</td><td>82.25</td><td>31.90</td><td>7.13</td><td>30.88</td><td>6.00</td><td>100</td><td>130 Peak</td></tr><tr><td>2 *</td><td>2402.00</td><td>71.61</td><td>54.00</td><td>17.61</td><td>57.46</td><td>31.90</td><td>7.13</td><td>30.88</td><td>6.00</td><td>100</td><td>130 Average</td></tr></table>	Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		1 *	2402.00	96.40	74.00	22.40	82.25	31.90	7.13	30.88	6.00	100	130 Peak	2 *	2402.00	71.61	54.00	17.61	57.46	31.90	7.13	30.88	6.00	100	130 Average
Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark																																																																																				
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																					
1	2350.43	46.95	74.00	-27.05	33.08	31.80	7.06	30.99	6.00	100	130 Peak																																																																																			
2	2350.43	22.16	54.00	-31.84	8.29	31.80	7.06	30.99	6.00	100	130 Average																																																																																			
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1 *	2402.00	96.40	74.00	22.40	82.25	31.90	7.13	30.88	6.00	100	130 Peak																																																																																			
2 *	2402.00	71.61	54.00	17.61	57.46	31.90	7.13	30.88	6.00	100	130 Average																																																																																			



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ANT	18																																																																																										
Pol.	Horizontal						Vertical																																																																																				
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		Limit	Over	ReadAntenna	Cable Preamp	Aux	A/Pos	T/Pos	Remark																																																																																		
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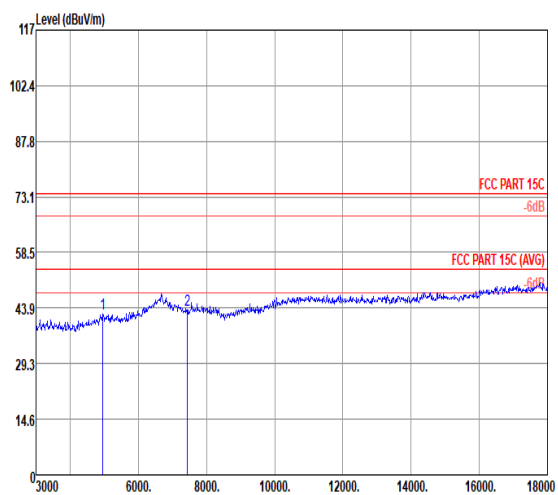
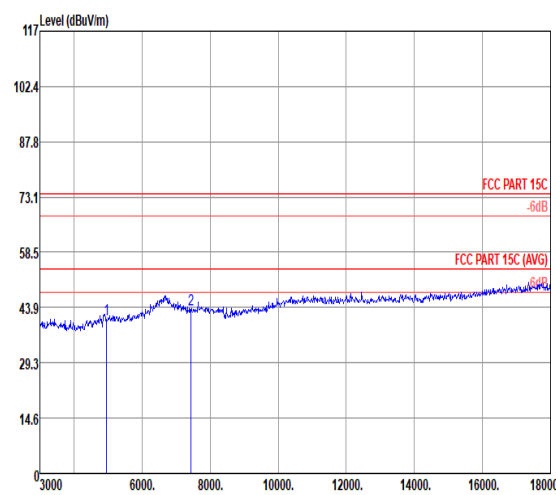


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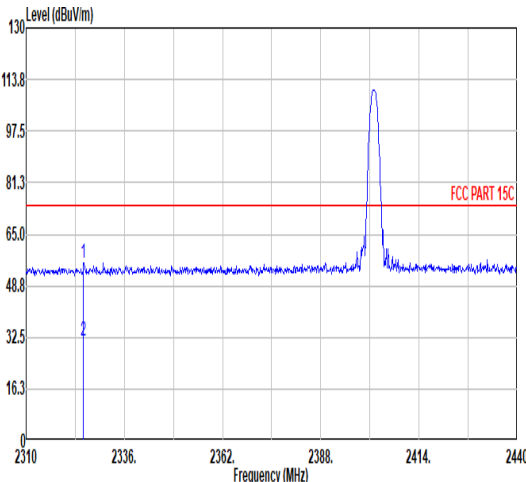
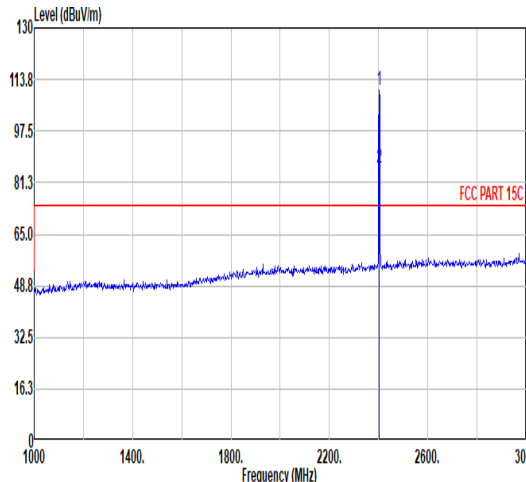


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Peak	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2480 MHz. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 2440 to 2500 MHz. The plot includes FCC Part 15C limits and an average level line. <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2488.18</td><td>48.05</td><td>74.00</td><td>-25.95</td><td>33.08</td><td>32.30</td><td>7.32</td><td>30.65</td><td>6.00</td><td>100</td><td>355 Peak</td></tr><tr><td>2</td><td>2488.18</td><td>23.26</td><td>54.00</td><td>-30.74</td><td>8.29</td><td>32.30</td><td>7.32</td><td>30.65</td><td>6.00</td><td>100</td><td>355 Average</td></tr></tbody></table>		Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2488.18	48.05	74.00	-25.95	33.08	32.30	7.32	30.65	6.00	100	355 Peak	2	2488.18	23.26	54.00	-30.74	8.29	32.30	7.32	30.65	6.00	100	355 Average	Fundamental Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2480 MHz. The y-axis ranges from 0 to 117 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. The plot includes FCC Part 15C limits and an average level line. <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 *</td><td>2480.00</td><td>96.78</td><td>74.00</td><td>22.78</td><td>81.92</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>355 Peak</td></tr><tr><td>2 *</td><td>2480.00</td><td>71.99</td><td>54.00</td><td>17.99</td><td>57.13</td><td>32.23</td><td>7.28</td><td>30.65</td><td>6.00</td><td>100</td><td>355 Average</td></tr></tbody></table>		Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1 *	2480.00	96.78	74.00	22.78	81.92	32.23	7.28	30.65	6.00	100	355 Peak	2 *	2480.00	71.99	54.00	17.99	57.13	32.23	7.28	30.65	6.00	100	355 Average
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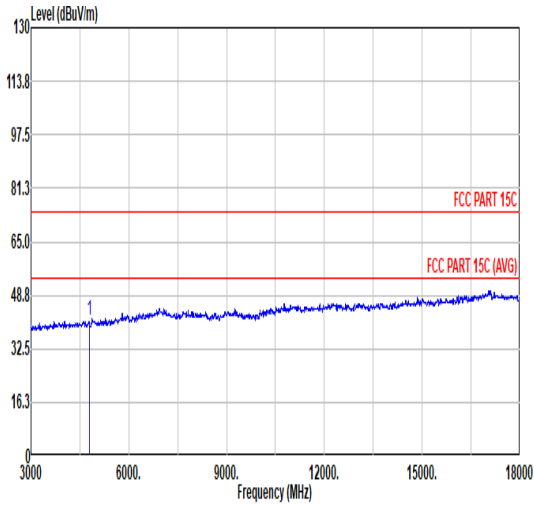
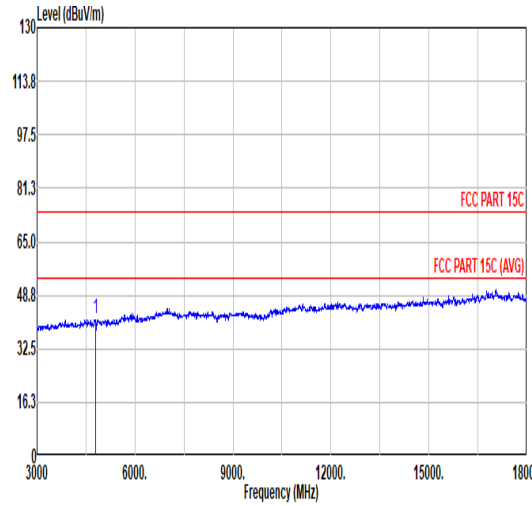


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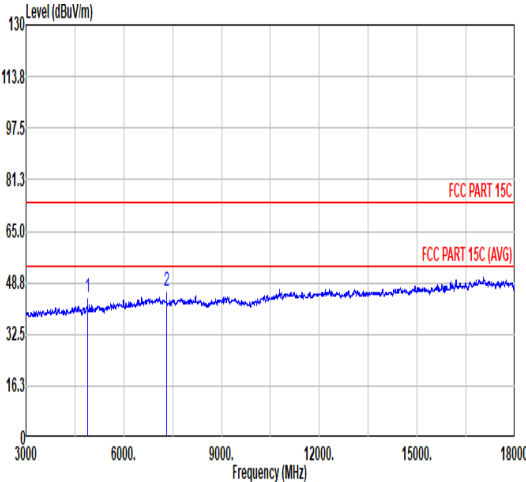
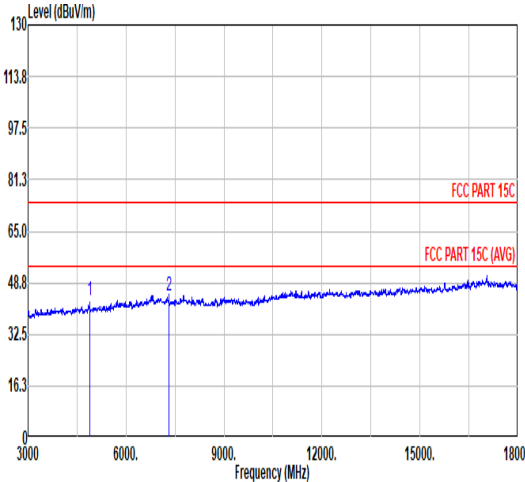


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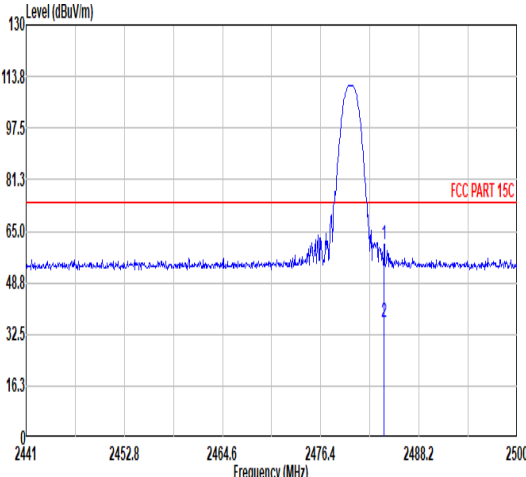
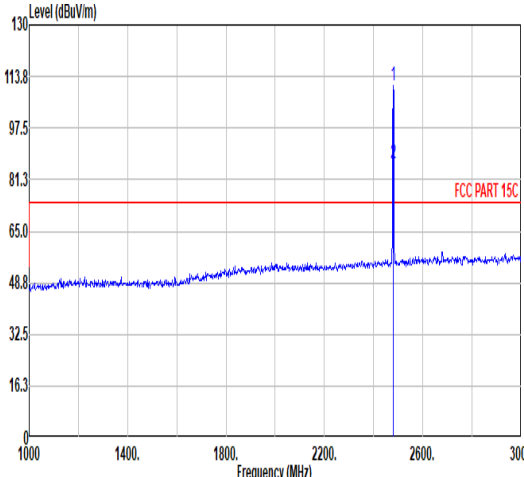


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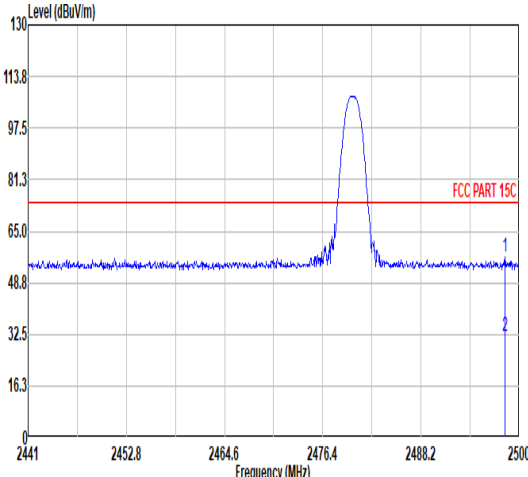


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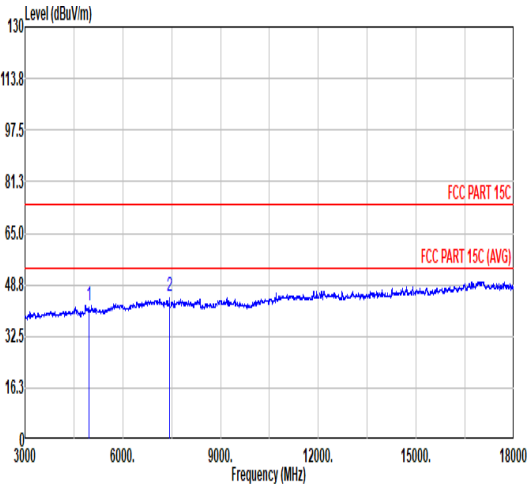
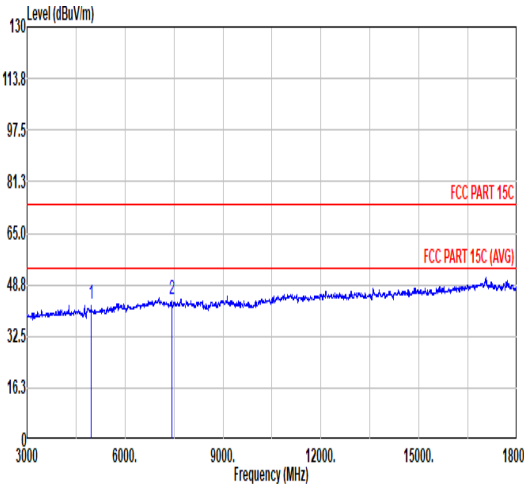
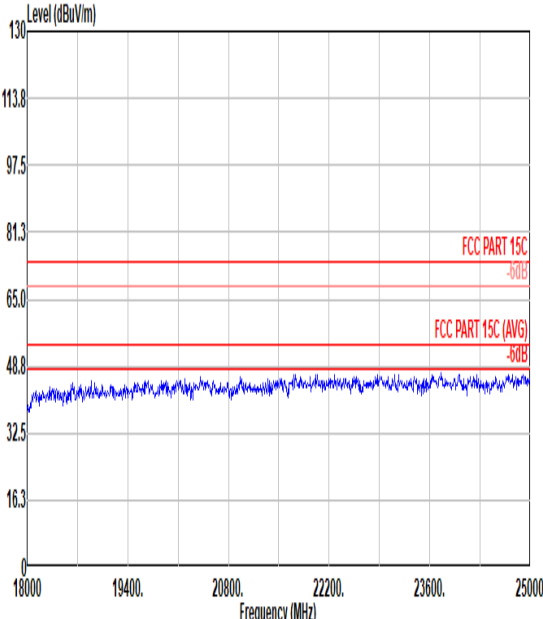
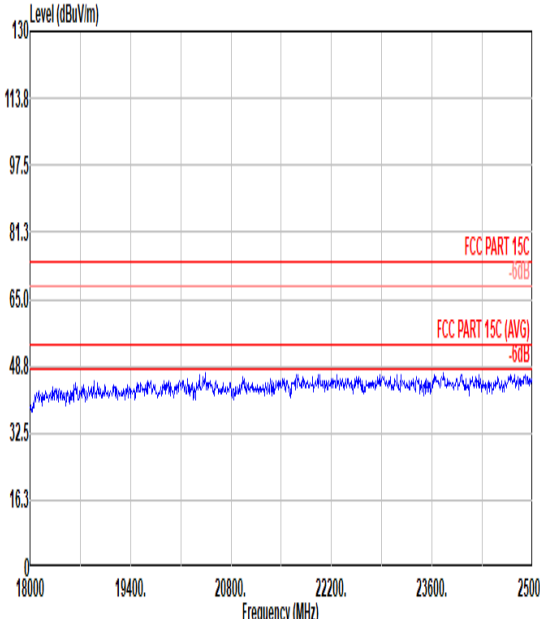


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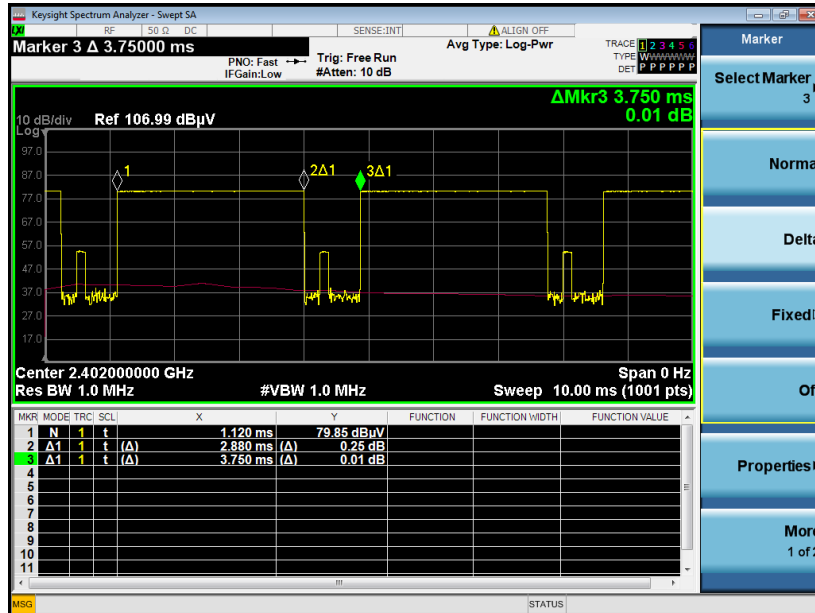
Note: For 18GHz to 25GHz, only worst case is verified in this report.



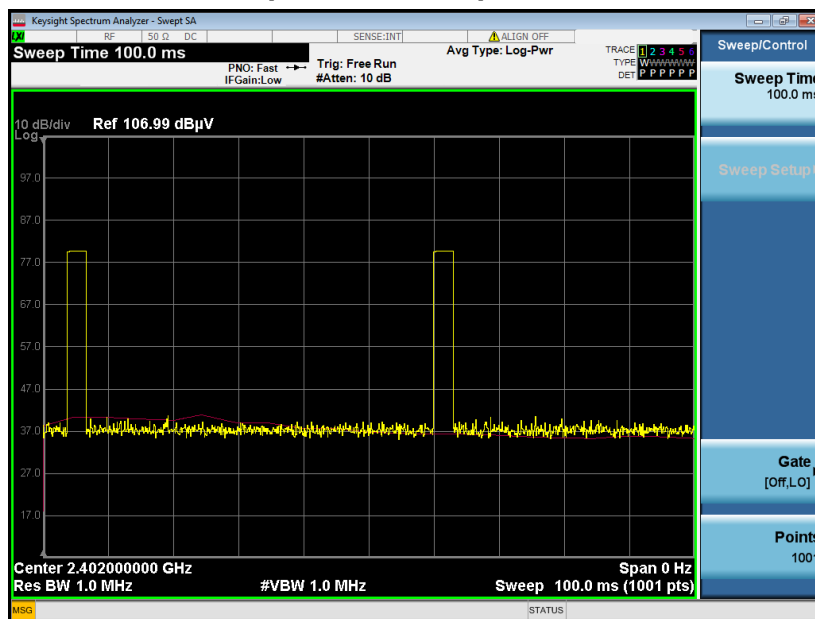
	9																																																																																																		
Mode	Emission below 1GHz																																																																																																		
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																																																		
ANT	BF 15+18																																																																																																		
Pol.	Horizontal																																																																																																		
Peak QP																																																																																																			
	<table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>30.97</td><td>21.57</td><td>40.00</td><td>-18.43</td><td>28.71</td><td>24.55</td><td>0.51</td><td>32.20</td><td>0.00</td><td>--- Peak</td></tr><tr><td>2</td><td>90.14</td><td>24.76</td><td>43.50</td><td>-18.74</td><td>41.14</td><td>14.60</td><td>1.32</td><td>32.30</td><td>0.00</td><td>--- Peak</td></tr><tr><td>3</td><td>214.30</td><td>24.13</td><td>43.50</td><td>-19.37</td><td>39.07</td><td>15.05</td><td>2.14</td><td>32.13</td><td>0.00</td><td>--- Peak</td></tr><tr><td>4</td><td>283.17</td><td>27.59</td><td>46.00</td><td>-18.41</td><td>38.42</td><td>18.84</td><td>2.46</td><td>32.13</td><td>0.00</td><td>--- Peak</td></tr><tr><td>5</td><td>394.72</td><td>24.02</td><td>46.00</td><td>-21.98</td><td>31.84</td><td>21.57</td><td>2.90</td><td>32.29</td><td>0.00</td><td>--- Peak</td></tr><tr><td>6</td><td>525.67</td><td>27.74</td><td>46.00</td><td>-18.26</td><td>32.13</td><td>24.62</td><td>3.34</td><td>32.35</td><td>0.00</td><td>--- Peak</td></tr></table>											Freq	Level	Limit	Over	ReadAntenna	Cable	Preamp	Aux	A/Pos	T/Pos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	30.97	21.57	40.00	-18.43	28.71	24.55	0.51	32.20	0.00	--- Peak	2	90.14	24.76	43.50	-18.74	41.14	14.60	1.32	32.30	0.00	--- Peak	3	214.30	24.13	43.50	-19.37	39.07	15.05	2.14	32.13	0.00	--- Peak	4	283.17	27.59	46.00	-18.41	38.42	18.84	2.46	32.13	0.00	--- Peak	5	394.72	24.02	46.00	-21.98	31.84	21.57	2.90	32.29	0.00	--- Peak	6	525.67	27.74	46.00	-18.26	32.13	24.62	3.34	32.35	0.00	--- Peak
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Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 on time (Count Pulses) Plot on Channel 00



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.