



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2421-5
FCC ID : IHDT56AR3
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Nov. 02, 2023 ~ Nov. 28, 2023

We, Sporton International Inc. (Kunshan), 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 of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR381720B	Rev. 01	Initial issue of report	Dec. 13, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
4.1	15.247(b)(3)	Peak Output Power	$\leq 30\text{dBm}$	Pass	-
4.2	15.247(d)	Radiated Band Edges and Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 10.32 dB at 53.28 MHz
4.3	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	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/manufacture 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.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2421-5
FCC ID	IHDT56AR3
IMEI Code	355031480008859
HW Version	DVT2
SW Version	ULA34.53
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz
Number of Channels	40
Carrier Frequency of Each Channel	40 Channel(37 hopping + 3 advertising channel)
Antenna Type / Gain	PIFA Antenna type with gain -3.6 dBi
Type of Modulation	Bluetooth LE : GFSK

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Salcomp)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola (Salcomp)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola (Salcomp)	Model Name	MC-103
AC Adapter 1(AU)	Brand Name	Motorola (Salcomp)	Model Name	MC-105
AC Adapter 1(CHILE)	Brand Name	Motorola (Salcomp)	Model Name	MC-109
AC Adapter 2(US)	Brand Name	Motorola (chenyang)	Model Name	MC-101
AC Adapter 2(EU)	Brand Name	Motorola (chenyang)	Model Name	MC-102
AC Adapter 2(UK)	Brand Name	Motorola (chenyang)	Model Name	MC-103
AC Adapter 2(AU)	Brand Name	Motorola (chenyang)	Model Name	MC-105
AC Adapter 3(US)	Brand Name	Motorola (aohai)	Model Name	MC-101
AC Adapter 3(EU)	Brand Name	Motorola (aohai)	Model Name	MC-102
AC Adapter 3(UK)	Brand Name	Motorola (aohai)	Model Name	MC-103
AC Adapter 3(AU)	Brand Name	Motorola (aohai)	Model Name	MC-105
Battery 1	Brand Name	Motorola (ATL)	Model Name	QF50
Battery 2	Brand Name	Motorola (Sunwoda)	Model Name	QF50
Earphone 1	Brand Name	Motorola (New leader)	Model Name	NLD-EM313A-20SF
Earphone 2	Brand Name	Motorola (JWELL)	Model Name	JWEP1205-L20H
USB Cable 1	Brand Name	Motorola (JWELL)	Model Name	JWUB1631-L20H
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	SLQ-A238A

1.7 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH07-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH07-KS	AUDIX	E3	210616



1.9 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2421-5, FCC ID: IHDT56AR3) is electrically identical to the reference device (Model: XT2421-2, FCC ID: IHDT56AR1) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 Referencing Test Data v02r01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID: IHDT56AR3 .

2.2 Model Difference Information

The **main** difference between FCC ID: IHDT56AR1 and FCC ID: IHDT56AR3 is as below:

- Remove GSM1900, WCDMA Band II / IV and LTE Band 2/4/13/26/38/66.
- Add NFC function and LTE Band 20/41.

Other differences and all the details of similarity and difference can be found in the confidential documents (XT2421-5_Operational Description of Product Equality Declaration).

2.3 Reference detail Section:

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DTS (BLE)	2400~2483.5	IHDT56AR1	Original Grant	FR381717B	IHDT56AR3	All sections applicable except for RSE



2.4 Spot Check Verification Data Section

Conducted power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

All test procedures follow the related section of parent report.

Spot-check measurements, while being always compliant with the applicable rule part(s) for the test under consideration, show a deviation d_{dB} from the reference data no larger than 3 dB:

$$d_{dB} = |V_{dB} - R_{dB}| \leq 3 \text{ dB} \quad (1)$$

V_{dB} , the variant spot-check level

R_{dB} , the corresponding measurement level for the reference model

An alternative to the limit of eq. (1) is available, and is based on considering how far the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the particular test under consideration. In this case, if $M_{dB} = |C_{dB} - R_{dB}|$ is the margin in dB from the compliance limit, a spot check may be considered acceptable when the deviation d_{dB} from the reference data satisfies the following condition:

$$d_{dB} = |V_{dB} - R_{dB}| \leq (3 + M_{dB} / 20) \text{ dB}, \text{ for } 0 \leq M_{dB} \leq 60 \text{ dB} \quad (2)$$

where “| |” is the absolute value of the measured quantity.

When using the option in eq. (2), d_{dB} increases linearly from 3 dB to 6 dB.

Summary for power spot check for each rule entry and technology is listed as below:

Test Item	Mode	IHDT56AR1 Parent Worst Result	IHDT56AR3 Variant Check Result	Deviation (dB)	Limit (dB)
Conducted Power (dBm)	BLE 1M	1.05	0.75	0.3	3
	BLE 2M	1.03	0.76	0.27	3

Conclusion:

Conducted Power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level spot check are shown within expected level compliant to limit line.

We are using power measurements from the original parent model reports to list on the grant.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v02r01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.



3 Test Configuration of Equipment Under Test

3.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	21	2444
	1	2404	22	2446
	2	2406	23	2448
	3	2408	24	2450
	4	2410	25	2452
	5	2412	26	2454
	6	2414	27	2456
	7	2416	28	2458
	8	2418	29	2460
	9	2420	30	2462
	10	2422	31	2464
	11	2424	32	2466
	12	2426	33	2468
	13	2428	34	2470
	14	2430	35	2472
	15	2432	36	2474
	16	2434	37	2476
	17	2436	38	2478
	18	2438	39	2480
	19	2440	-	-
	20	2442	-	-

3.2 Test Mode

- 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

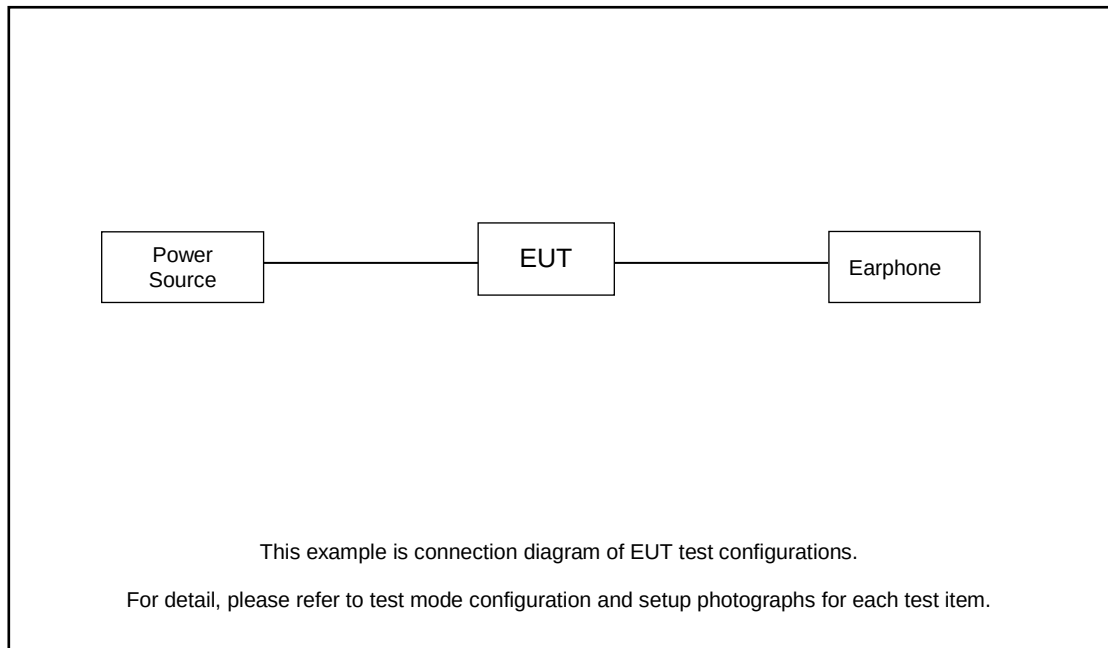
The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	Data Rate / Modulation
	Bluetooth – LE / GFSK
Radiated TCs	Mode 1: Bluetooth Tx CH00_2402 MHz_BLE 1Mbps
	Mode 2: Bluetooth Tx CH19_2440 MHz_BLE 1Mbps
	Mode 3: Bluetooth Tx CH39_2480 MHz_BLE 1Mbps
	Mode 4: Bluetooth Tx CH00_2402 MHz_BLE 2Mbps
	Mode 5: Bluetooth Tx CH19_2440 MHz_BLE 2Mbps
	Mode 6: Bluetooth Tx CH39_2480 MHz_BLE 2Mbps
Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Earphone 1 and USB Cable1	

RSE Co-location
Bluetooth LE(1 Mbps) CH39_TX + GSM 850 link

3.3 Connection Diagram of Test System

Radiated Emission:



3.4 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit.

4 Test Result

4.1 Output Power Measurement

4.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

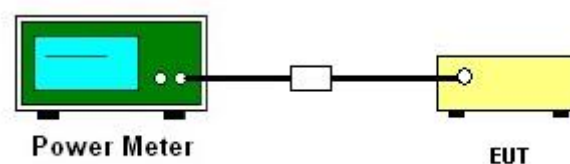
4.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

4.1.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

4.1.4 Test Setup



4.1.5 Test Result of Peak Output Power

Please refer to Spot Check Verification Data Section.

4.2 Radiated Band Edges and Spurious Emission Measurement

4.2.1 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. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. 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

4.2.2 Measuring Instruments

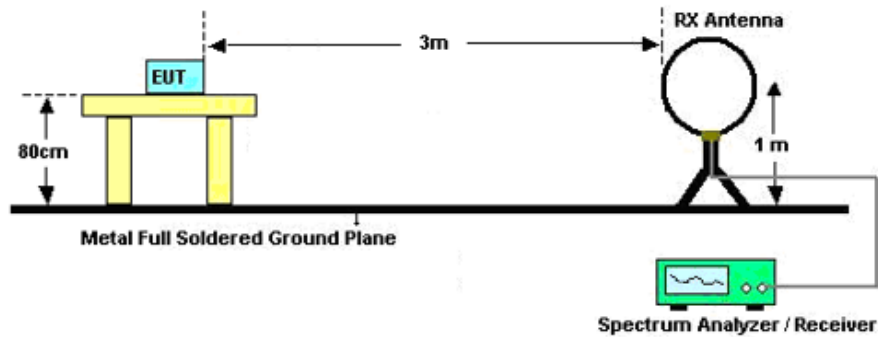
The section 4.0 of List of Measuring Equipment of this test report is used for test.

4.2.3 Test Procedures

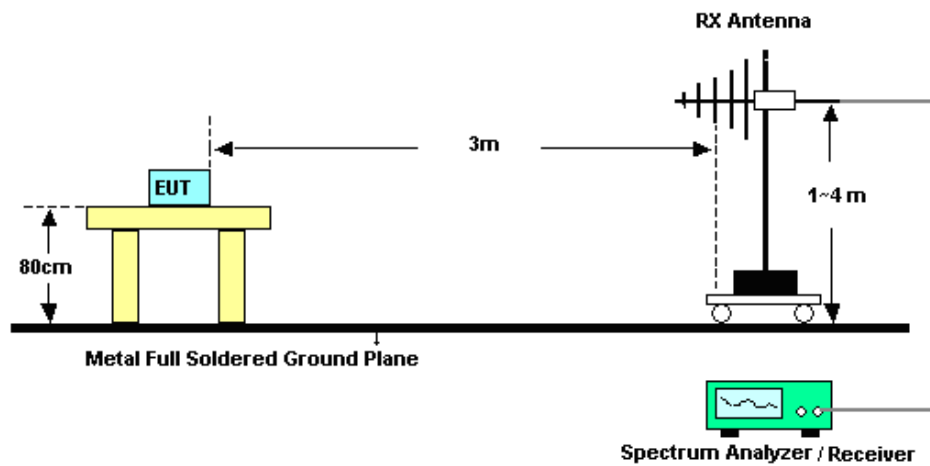
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. 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.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. 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.
7. 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.
8. 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; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, 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.

4.2.4 Test Setup

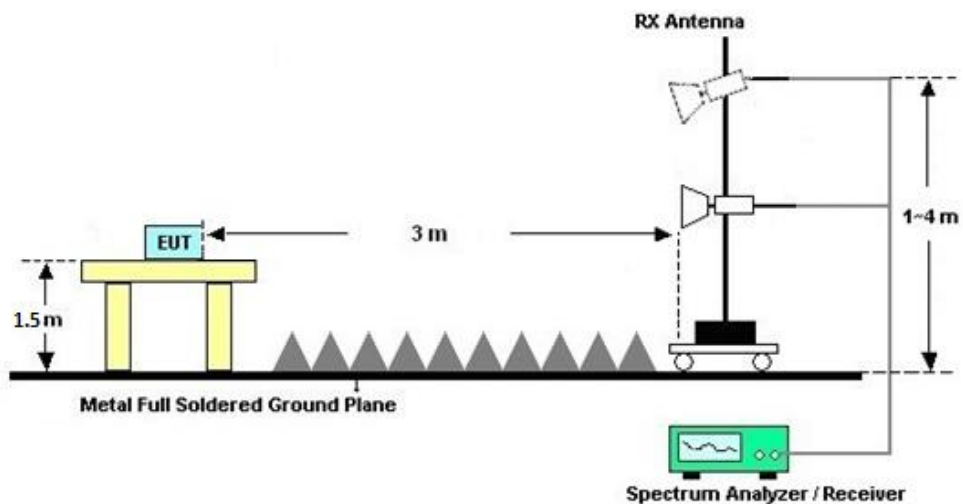
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**4.2.5 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.

4.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A.

4.2.7 Duty Cycle

Please refer to Appendix B.

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

Please refer to Appendix A.



4.3 Antenna Requirements

4.3.1 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.

4.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4.3.3 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.



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 05, 2023	Nov. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 05, 2023	Nov. 02, 2023	Jan. 04, 2024	Conducted (TH01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz~1GHz	Aug. 12, 2023	Nov. 28, 2023	Aug. 11, 2024	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218642	1GHz~18GHz	Apr. 06, 2023	Nov. 28, 2023	Apr. 05, 2024	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 05, 2023	Nov. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060840	1Ghz~18Ghz	Oct. 10, 2023	Nov. 28, 2023	Oct. 09, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GG A	060851	18~40GHz	Jan. 05, 2023	Nov. 28, 2023	Jan. 04, 2024	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Nov. 28, 2023	NCR	Radiation (03CH07-KS)

NCR: No Calibration Required



6 Measurement Uncertainty

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.

Uncertainty of Conducted Measurement

Conducted Power	±0.46 dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.20 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.86 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.24 dB
---	---------

----- THE END -----



Appendix A. Radiated Spurious Emission

Test Engineer :	Levi zhao	Relative Humidity :	41~ 42%
		Temperature :	22 ~ 23℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	Bluetooth-LE_GSKF	00	2402	1Mbps	-
Mode 2	2400-2483.5	Bluetooth-LE_GSKF	19	2440	1Mbps	-
Mode 3	2400-2483.5	Bluetooth-LE_GSKF	39	2480	1Mbps	-
Mode 4	2400-2483.5	Bluetooth-LE_GSKF	00	2402	2Mbps	-
Mode 5	2400-2483.5	Bluetooth-LE_GSKF	19	2440	2Mbps	-
Mode 6	2400-2483.5	Bluetooth-LE_GSKF	39	2480	2Mbps	-

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-LE	00	2383.91	38.77	54.00	-15.23	H	AVERAGE	Pass	Band Edge
1	Bluetooth-LE	00	4804.00	42.27	74.00	-31.73	V	PEAK	Pass	Harmonic
2	Bluetooth-LE	19	-	-	-	-	-	-	-	Band Edge
2	Bluetooth-LE	19	7320.00	42.32	74.00	-31.68	H	PEAK	Pass	Harmonic
3	Bluetooth-LE	39	2483.77	39.49	54.00	-14.51	H	AVERAGE	Pass	Band Edge
3	Bluetooth-LE	39	7440.00	42.39	74.00	-31.61	H	PEAK	Pass	Harmonic
4	Bluetooth-LE	00	2369.35	39.26	54.00	-14.74	V	AVERAGE	Pass	Band Edge
4	Bluetooth-LE	00	7206.00	42.40	74.00	-31.60	H	PEAK	Pass	Harmonic
5	Bluetooth-LE	19	-	-	-	-	-	-	-	Band Edge
5	Bluetooth-LE	19	7320.00	41.85	74.00	-32.15	H	PEAK	Pass	Harmonic
6	Bluetooth-LE	39	2483.59	40.98	54.00	-13.02	H	AVERAGE	Pass	Band Edge
6	Bluetooth-LE	39	7440.00	42.69	74.00	-31.31	H	PEAK	Pass	Harmonic
-	Bluetooth-LE	39	53.28	29.68	40.00	-10.32	V	PEAK	Pass	LF

Co-location

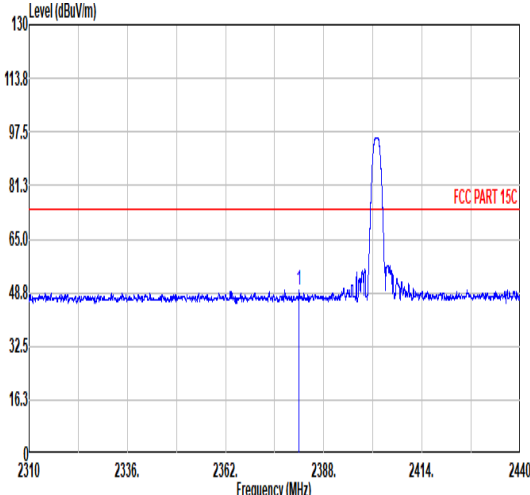
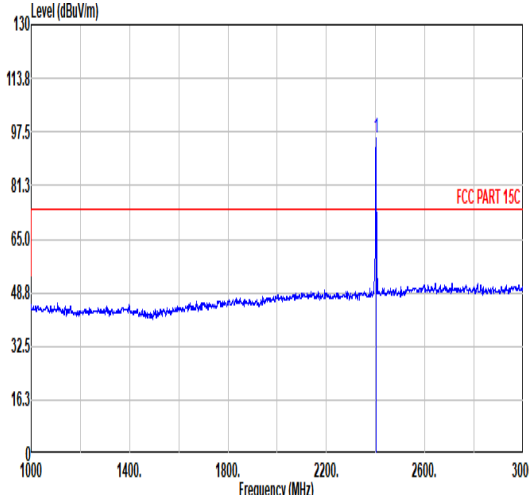
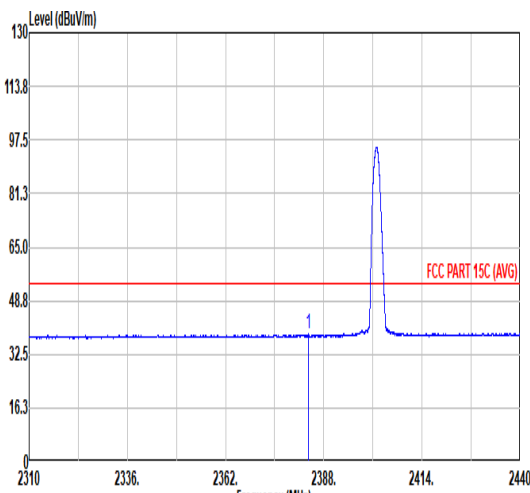
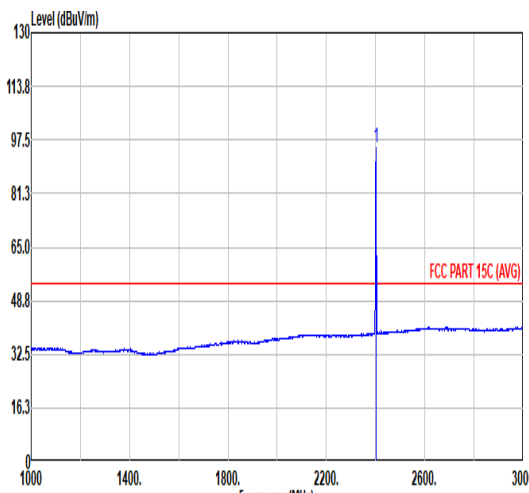
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 7	2400-2483.5	-	Bluetooth-LE	39	2480	1Mbps	-	-
	Part 22H GSM 850							

Summary of worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
7	Bluetooth-LE	39	2488.92	39.22	54.00	-14.78	H	AVERAGE	Pass	Band Edge
	Bluetooth-LE	39	7440.00	41.88	74.00	-32.12	V	PEAK	Pass	Harmonic



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	2400-2483.5_Bluetooth-LE_CH00_2402MHz																																																																																																		
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	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></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><th></th></tr><tr><td>1</td><td>4880.00</td><td>40.46</td><td>74.00</td><td>-33.54</td><td>59.24</td><td>34.30</td><td>10.40</td><td>63.48</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7320.00</td><td>42.32</td><td>74.00</td><td>-31.68</td><td>57.40</td><td>35.78</td><td>12.82</td><td>63.68</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table>								Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	4880.00	40.46	74.00	-33.54	59.24	34.30	10.40	63.48	0.00	---	PEAK	2	7320.00	42.32	74.00	-31.68	57.40	35.78	12.82	63.68	0.00	---	PEAK	<table><tr><th colspan="2"></th><th colspan="2">Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th rowspan="2">Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></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><th></th></tr><tr><td>1</td><td>4880.00</td><td>41.24</td><td>74.00</td><td>-32.76</td><td>60.02</td><td>34.30</td><td>10.40</td><td>63.48</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7320.00</td><td>42.22</td><td>74.00</td><td>-31.78</td><td>57.30</td><td>35.78</td><td>12.82</td><td>63.68</td><td>0.00</td><td>---</td><td>PEAK</td></tr></table>								Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	4880.00	41.24	74.00	-32.76	60.02	34.30	10.40	63.48	0.00	---	PEAK	2	7320.00	42.22	74.00	-31.78	57.30	35.78	12.82	63.68	0.00	---	PEAK
			Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																						
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1	4880.00	40.46	74.00	-33.54	59.24	34.30	10.40	63.48	0.00	---	PEAK																																																																																																																							
2	7320.00	42.32	74.00	-31.68	57.40	35.78	12.82	63.68	0.00	---	PEAK																																																																																																																							
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																																																																																										
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																								
1	4880.00	41.24	74.00	-32.76	60.02	34.30	10.40	63.48	0.00	---	PEAK																																																																																																																							
2	7320.00	42.22	74.00	-31.78	57.30	35.78	12.82	63.68	0.00	---	PEAK																																																																																																																							



3

Mode

Band Edge

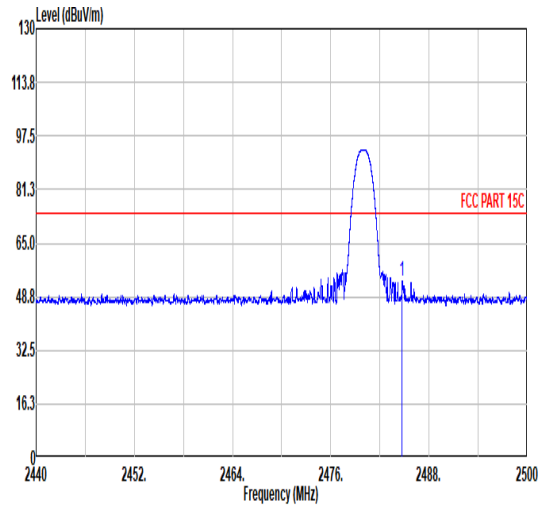
2400-2483.5_Bluetooth-LE_CH39_2480MHz

Pol.

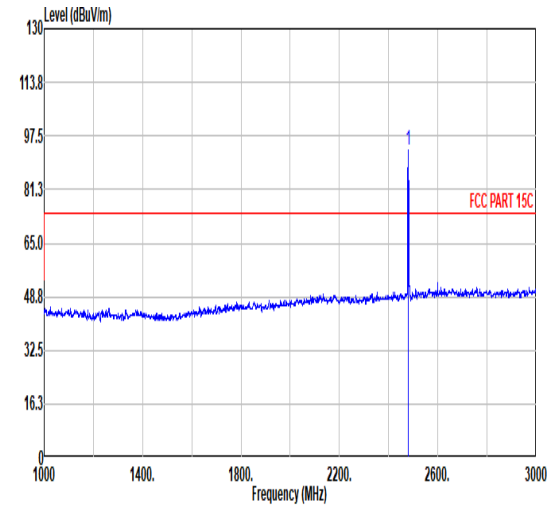
Horizontal

Fundamental

Peak

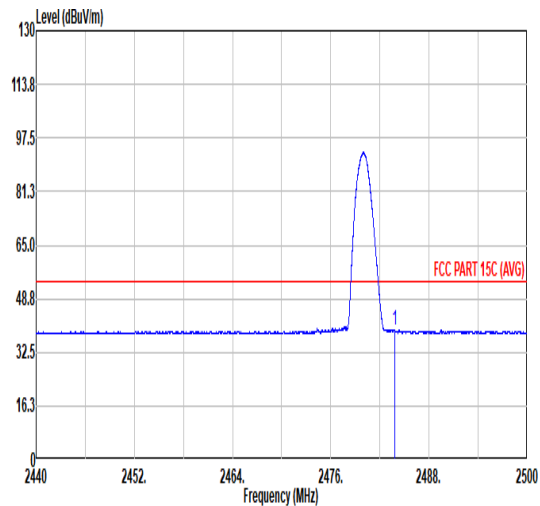


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2484.73	53.57	74.00	-20.43	44.04	31.97	7.29	35.73	6.00
								165
								226
								PEAK

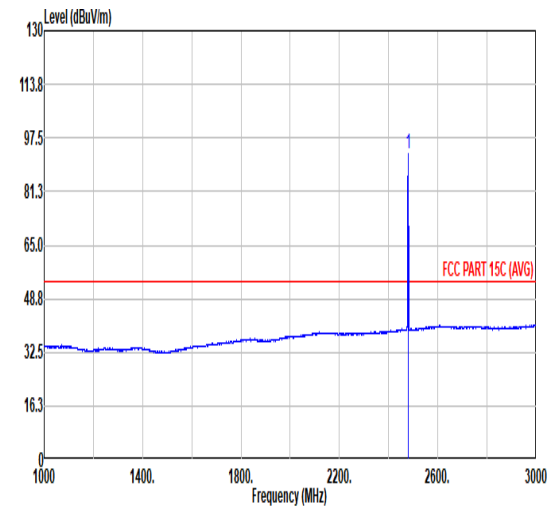


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2480.00	93.32	-----	-----	83.82	31.96	7.28	35.74	6.00
								165
								226
								PEAK

Avg



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2483.77	39.49	54.00	-14.51	29.97	31.97	7.28	35.73	6.00
								165
								226
								AVERAGE



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2480.00	92.79	-----	-----	83.29	31.96	7.28	35.74	6.00
								165
								226
								AVERAGE



3

Mode

Band Edge

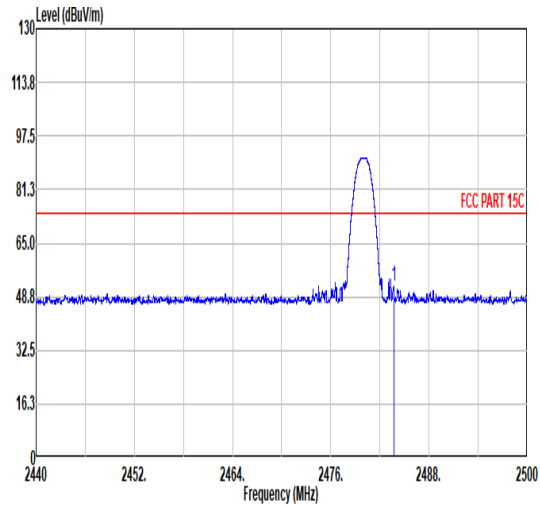
2400-2483.5_Bluetooth-LE_CH39_2480MHz

Pol.

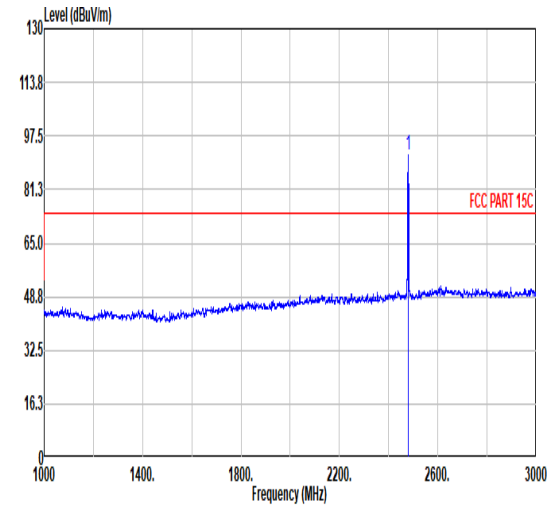
Vertical

Fundamental

Peak

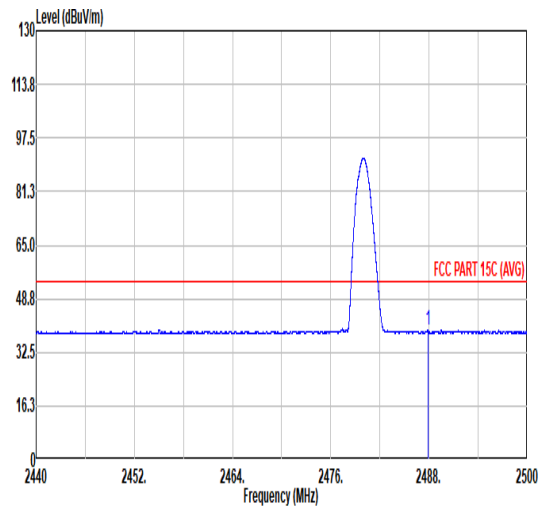


Freq	MHz	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Level	Line Margin	Level	Factor	Loss	Factor	Factor			
1	2483.71	51.86	74.00	-22.14	42.34	31.97	7.28	35.73	6.00	200	0 PEAK

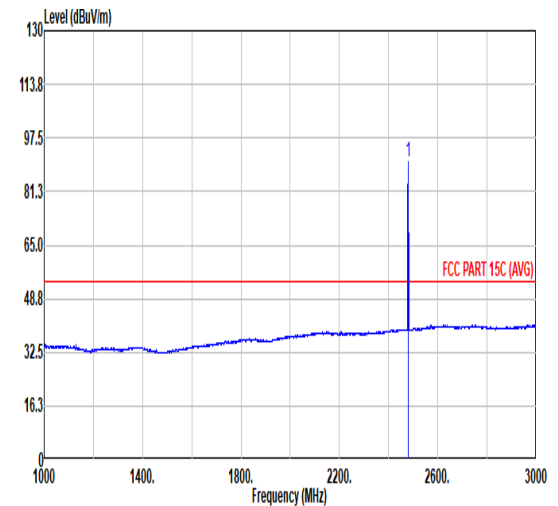


Freq	MHz	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Level	Line Margin	Level	Factor	Loss	Factor	Factor			
1	2480.00	91.67	-----	82.17	31.96	7.28	35.74	6.00	200	0 PEAK	

Avg

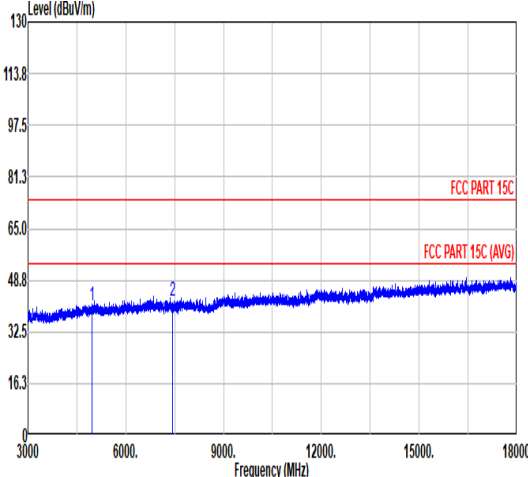
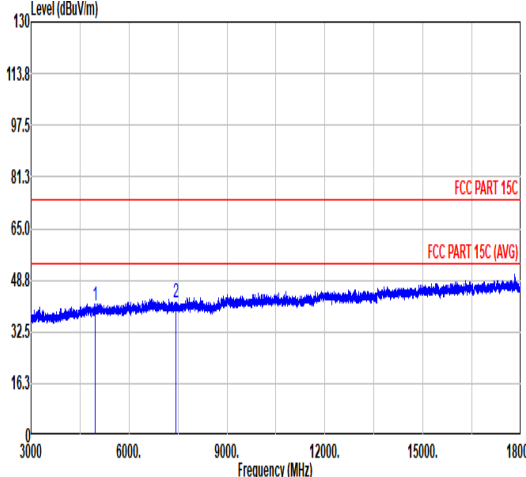


Freq	MHz	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Level	Line Margin	Level	Factor	Loss	Factor	Factor			
1	2487.85	39.18	54.00	-14.82	29.64	31.98	7.29	35.73	6.00	200	0 AVERAGE



Freq	MHz	Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
		Level	Line Margin	Level	Factor	Loss	Factor	Factor			
1	2480.00	90.37	-----	80.87	31.96	7.28	35.74	6.00	200	0 AVERAGE	



Mode	3																																																																																																																													
	Harmonic																																																																																																																													
	2400-2483.5_Bluetooth-LE_CH39_2480MHz																																																																																																																													
Pol.	Horizontal						Vertical																																																																																																																							
Peak Avg																																																																																																																														
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																					
Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor			Remark																																																																																																																					
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																				
1	4960.00	40.91	74.00	-33.09	59.46	34.42	10.51	63.48	0.00	---	---	PEAK																																																																																																																		
2	7440.00	42.39	74.00	-31.61	57.53	35.74	12.87	63.75	0.00	---	---	PEAK																																																																																																																		
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Freq	Level	Line Margin	Level Factor	Loss Factor	Loss Factor	Factor			Remark																																																																																																																					
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																																																				
1	4960.00	40.52	74.00	-33.48	59.07	34.42	10.51	63.48	0.00	---	---	PEAK																																																																																																																		
2	7440.00	41.47	74.00	-32.53	56.61	35.74	12.87	63.75	0.00	---	---	PEAK																																																																																																																		



4

Mode

Band Edge

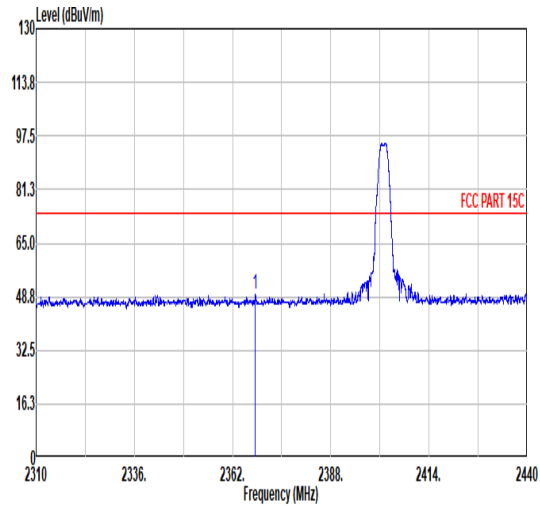
2400-2483.5_Bluetooth-LE_CH00_2402MHz

Pol.

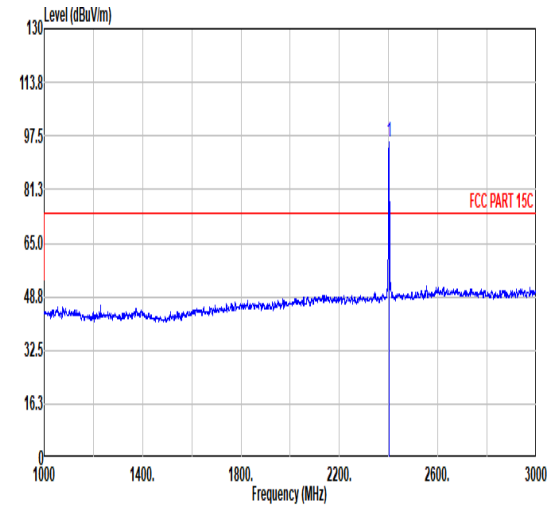
Horizontal

Fundamental

Peak

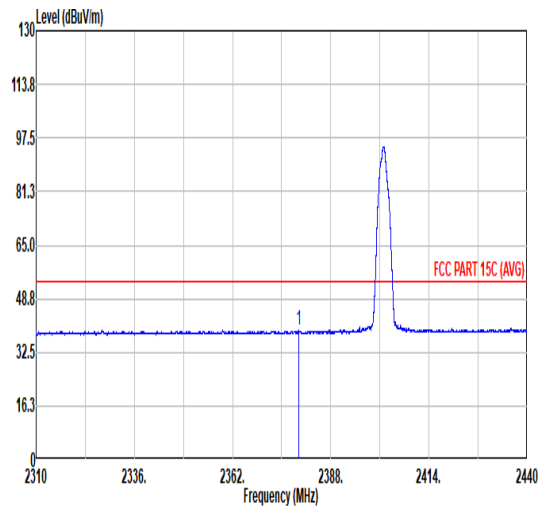


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2368.05	49.56	74.00	-24.44	40.64	31.70	7.09	35.87
								6.00
								103
								213
								PEAK

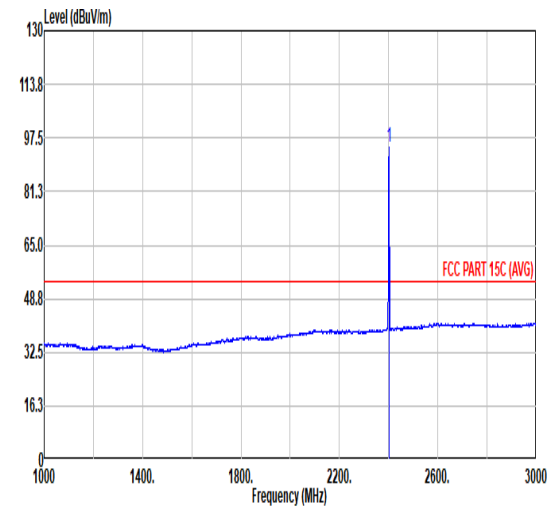


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2402.00	95.46	-----	-----	86.36	31.80	7.13	35.83
								6.00
								103
								213
								PEAK

Avg



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2379.49	39.11	54.00	-14.89	30.13	31.74	7.10	35.86
								6.00
								103
								213
								AVERAGE



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2402.00	94.82	-----	-----	85.72	31.80	7.13	35.83
								6.00
								103
								213
								AVERAGE



4

Mode

Band Edge

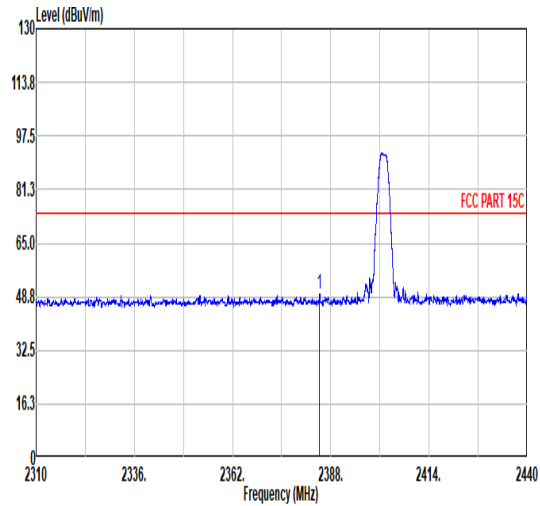
2400-2483.5_Bluetooth-LE_CH00_2402MHz

Pol.

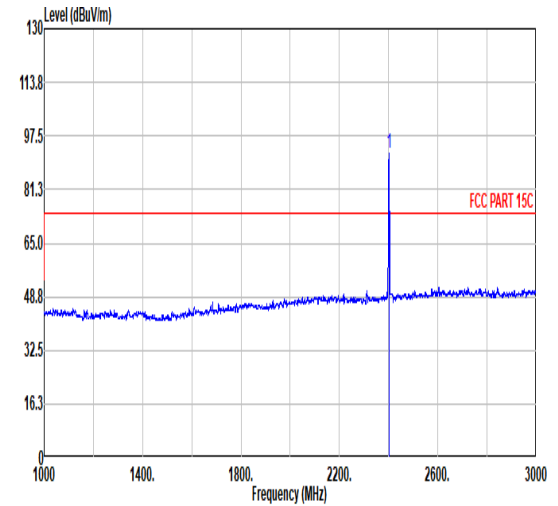
Vertical

Fundamental

Peak

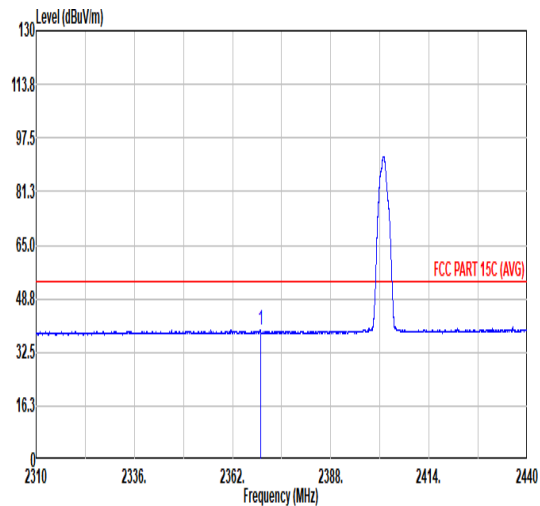


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2385.08	49.63	74.00	-24.37	40.61	31.76	7.11	35.85
								6.00
								300
								183
								PEAK

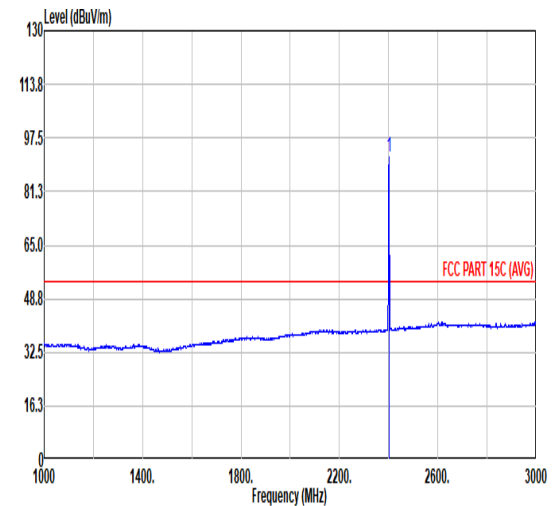


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2402.00	92.16	-----	-----	83.06	31.80	7.13	35.83
								6.00
								300
								183
								PEAK

Avg



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2369.35	39.26	54.00	-14.74	30.33	31.71	7.09	35.87
								6.00
								300
								183
								AVERAGE



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2402.00	91.62	-----	-----	82.52	31.80	7.13	35.83
								6.00
								300
								183
								AVERAGE



4

Mode

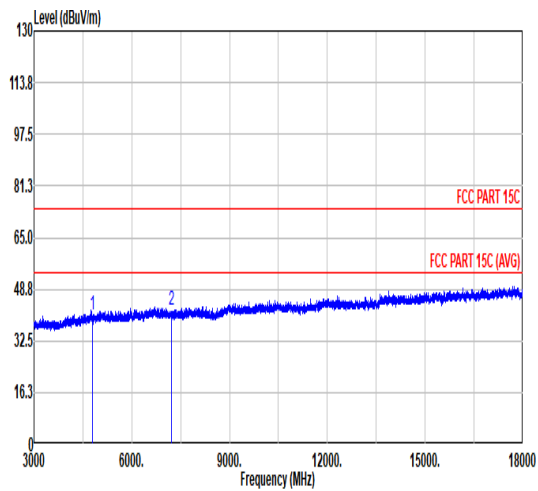
Harmonic

2400-2483.5_Bluetooth-LE_CH00_2402MHz

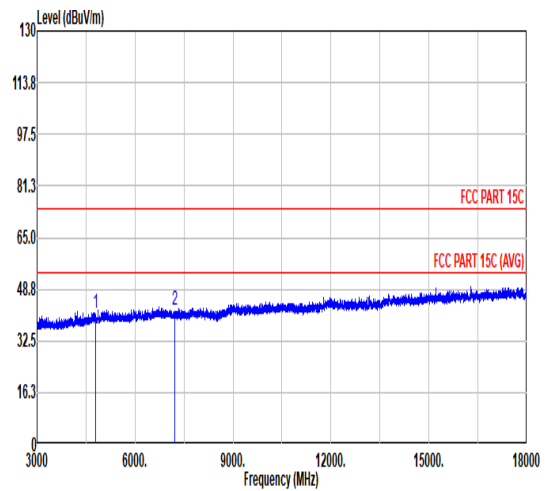
Pol.

Horizontal

Vertical

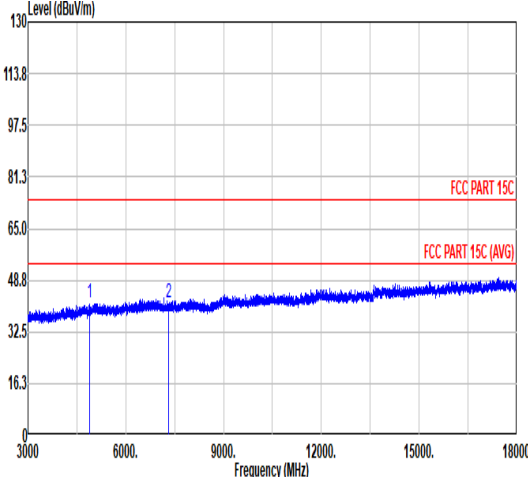
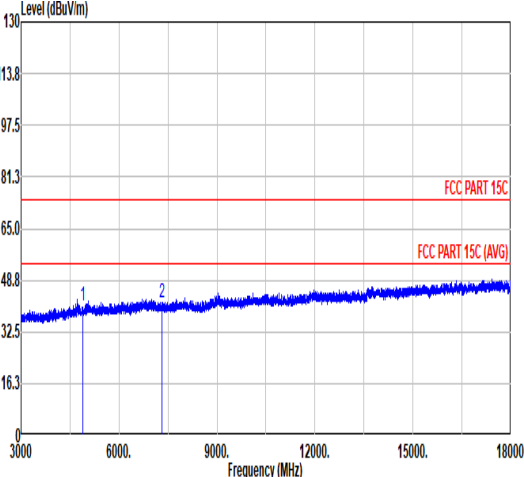
Peak
Avg

		Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4804.00	40.63	74.00	-33.37	59.51	34.30	10.30	63.48	0.00	---	PEAK
2	7206.00	42.40	74.00	-31.60	57.51	35.71	12.79	63.61	0.00	---	PEAK



		Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	4804.00	41.18	74.00	-32.82	60.06	34.30	10.30	63.48	0.00	---	PEAK
2	7206.00	42.00	74.00	-32.00	57.11	35.71	12.79	63.61	0.00	---	PEAK



Mode	5																																																																
	Harmonic																																																																
	2400-2483.5_Bluetooth-LE_CH19_2440MHz																																																																
Pol.	Horizontal																																																																
Peak Avg																																																																	
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6

Mode

Band Edge

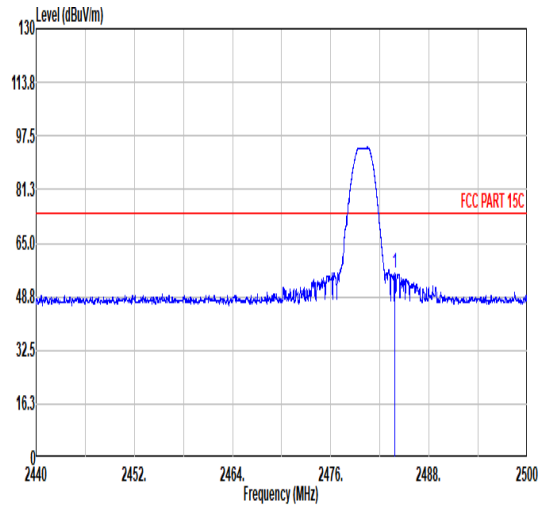
2400-2483.5_Bluetooth-LE_CH39_2480MHz

Pol.

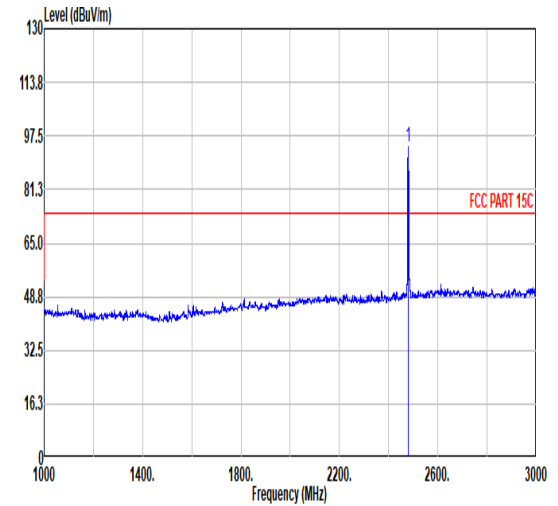
Horizontal

Fundamental

Peak

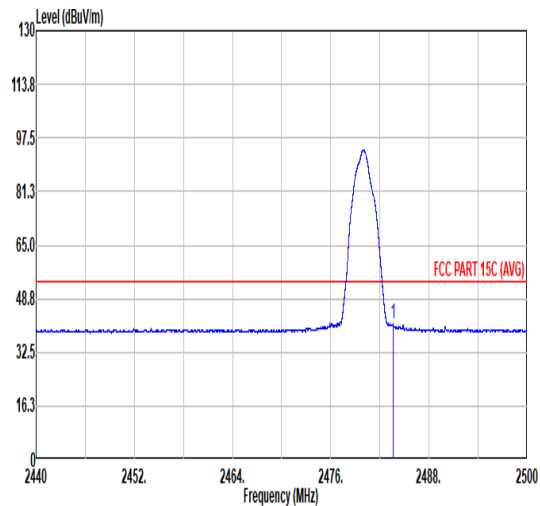


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2483.77	56.03	74.00	-17.97	46.51	31.97	7.28	35.73	6.00
								137
								224 PEAK

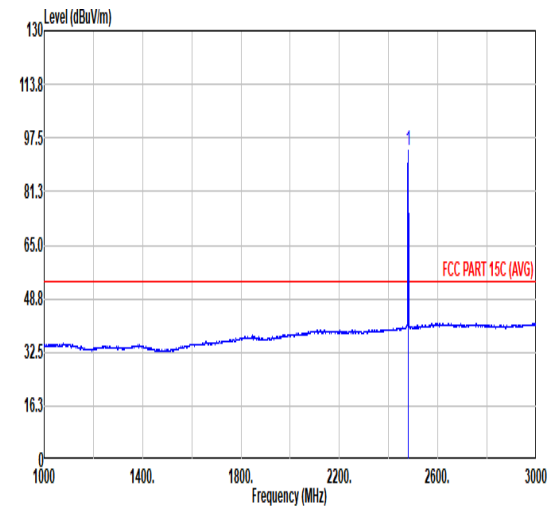


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2480.00	94.23	-----	-----	84.73	31.96	7.28	35.74	6.00
								137
								224 PEAK

Avg



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2483.59	40.98	54.00	-13.02	31.46	31.97	7.28	35.73	6.00
								137
								224 AVERAGE



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1 2480.00	93.73	-----	-----	84.23	31.96	7.28	35.74	6.00
								137
								224 AVERAGE



6

Mode

Band Edge

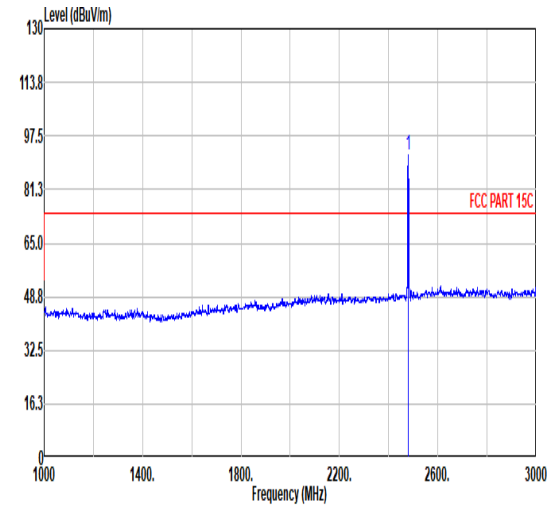
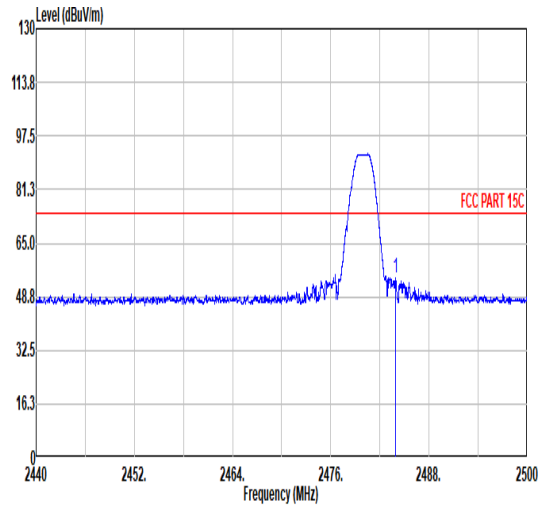
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Pol.

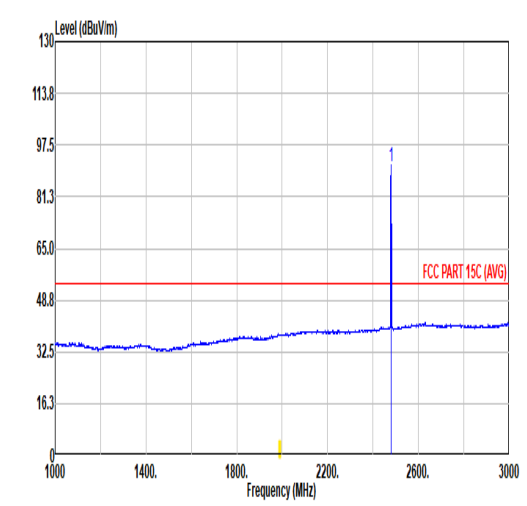
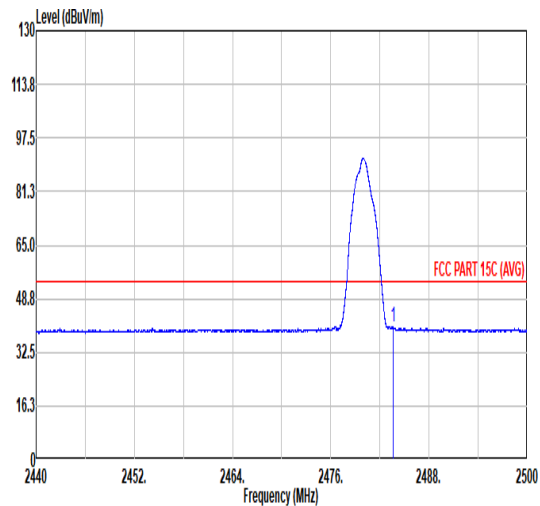
Vertical

Fundamental

Peak



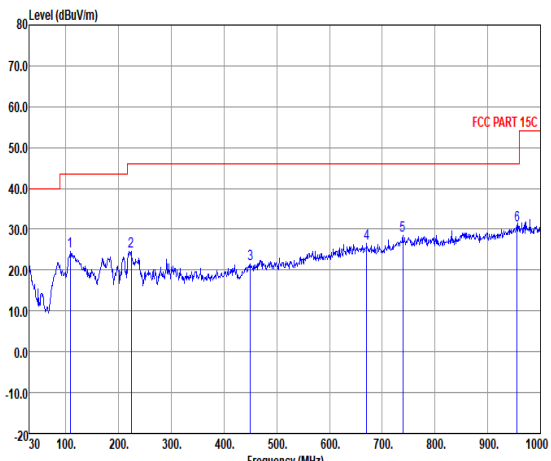
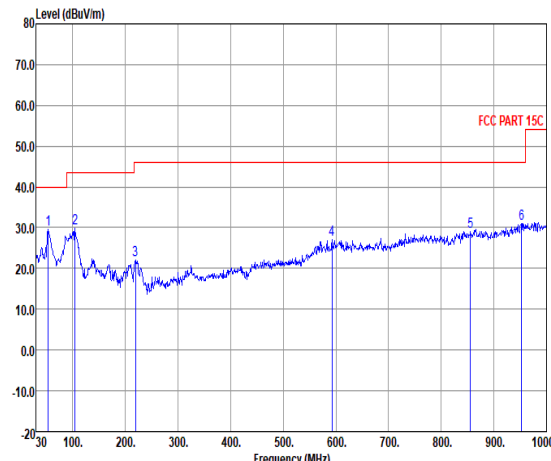
Avg





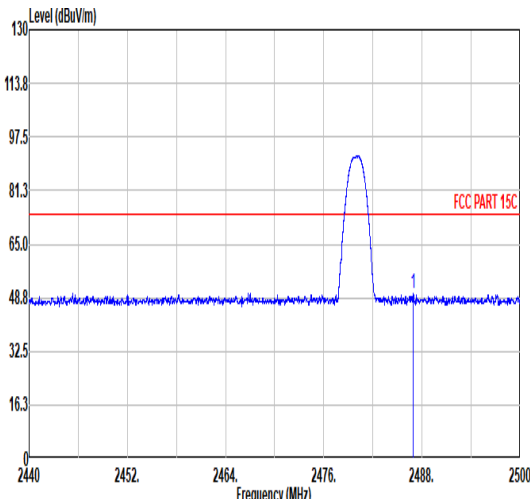
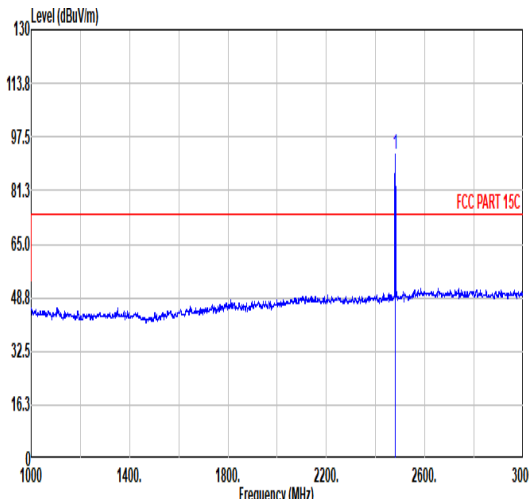
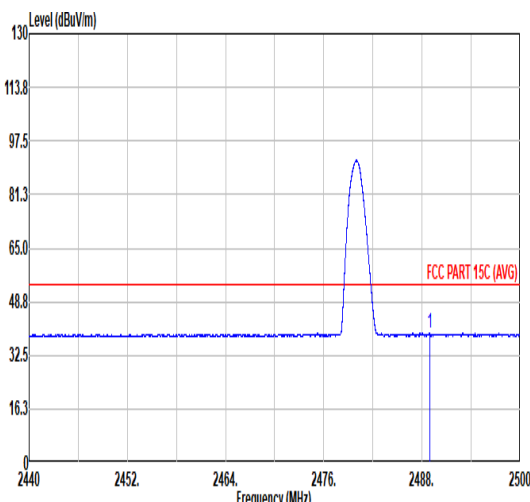
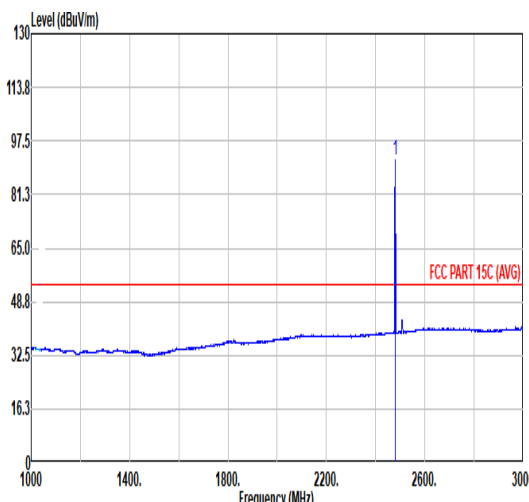
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	Freq	Level	Over Limit	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																
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2	104.69	29.97	-13.53	43.50	44.21	16.55	1.38	32.17	---	---	Peak																																																																																														
3	219.15	22.02	-23.98	46.00	36.90	15.29	2.00	32.17	---	---	Peak																																																																																														
4	592.60	27.00	-19.00	46.00	30.37	25.74	3.29	32.40	---	---	Peak																																																																																														
5	855.47	29.06	-16.94	46.00	27.60	29.28	3.94	31.76	---	---	Peak																																																																																														
6	952.47	30.93	-15.07	46.00	26.75	30.98	4.16	30.96	---	---	Peak																																																																																														



<Co-location>

Mode	7																																																						
	Band Edge																																																						
	2400-2483.5_Bluetooth-LE_CH39_2480MHz																																																						
Pol.	Horizontal						Fundamental																																																
Peak																																																							
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2486.95</td><td>49.87</td><td>74.00</td><td>-24.13</td><td>40.23</td><td>31.97</td><td>7.29</td><td>35.62</td><td>6.00</td><td>100</td><td>31</td><td>PEAK</td></tr></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2486.95	49.87	74.00	-24.13	40.23	31.97	7.29	35.62	6.00	100	31
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																													
1	2486.95	49.87	74.00	-24.13	40.23	31.97	7.29	35.62	6.00	100	31	PEAK																																											
Fundamental																																																							
	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</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>cm</th><th>deg</th></tr><tr><td>1</td><td>2480.00</td><td>92.02</td><td>-----</td><td>-----</td><td>82.41</td><td>31.96</td><td>7.28</td><td>35.63</td><td>6.00</td><td>100</td><td>31</td><td>PEAK</td></tr></table>													Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	92.02	-----	-----	82.41	31.96	7.28	35.63	6.00	100	31
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
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Avg																																																							
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																															
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1	2480.00	91.58	-----	-----	81.97	31.96	7.28	35.63	6.00	100	31	AVERAGE																																											



7

Mode

Band Edge

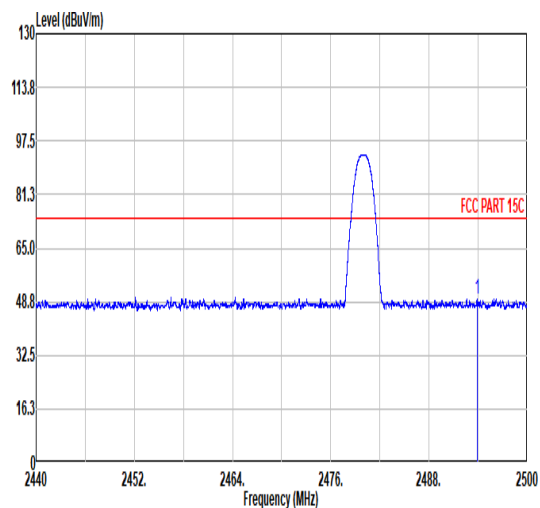
2400-2483.5_Bluetooth-LE_CH39_2480MHz

Pol.

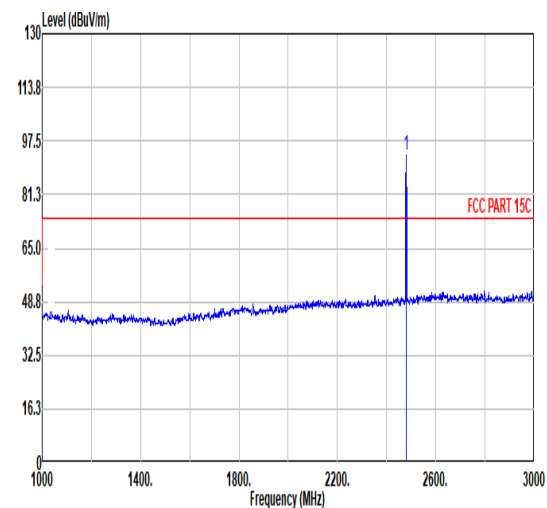
Vertical

Fundamental

Peak

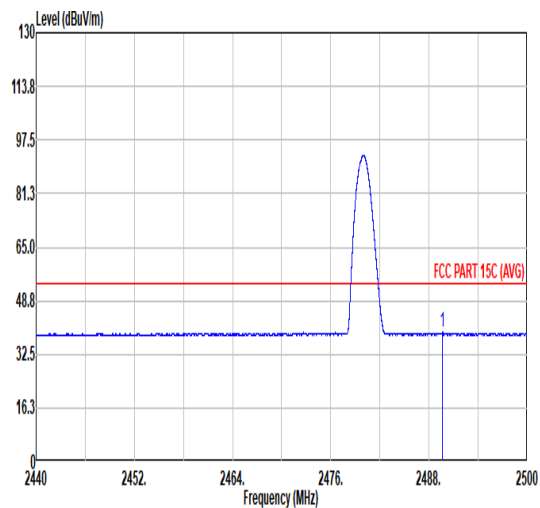


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2493.91	49.46	74.00	-24.54	39.79	31.99	7.30	35.62
								6.00
								112
								360
								PEAK

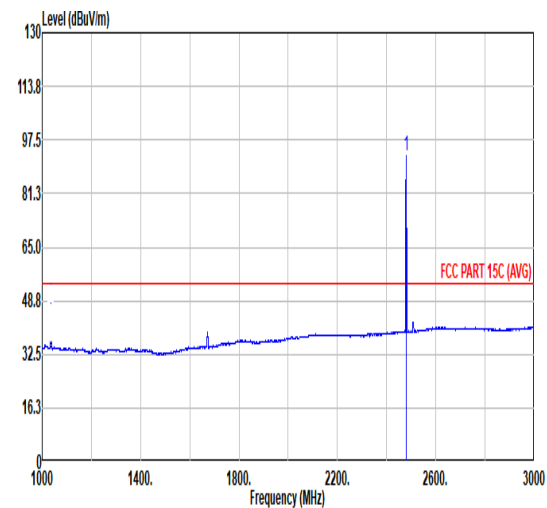


Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2480.00	93.04	-----	-----	83.43	31.96	7.28	35.63
								6.00
								112
								360
								PEAK

Avg



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2489.65	39.03	54.00	-14.97	29.37	31.98	7.30	35.62
								6.00
								112
								360
								AVERAGE



Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB
1	2480.00	92.50	-----	-----	82.89	31.96	7.28	35.63
								6.00
								112
								360
								AVERAGE



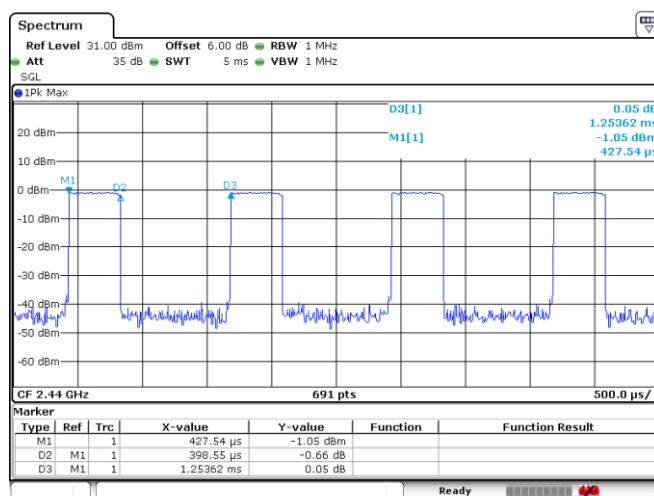
Mode	7																																																						
	Harmonic																																																						
	2400-2483.5_Bluetooth-LE_CH39_2480MHz																																																						
Pol.	Horizontal																																																						
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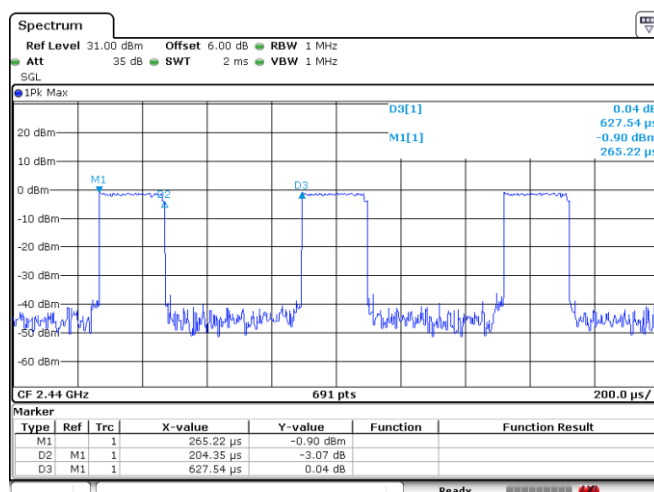
Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
Bluetooth LE 1Mbps	31.79	0.399	2.509	2.7kHz
Bluetooth LE 2Mbps	32.56	0.204	4.894	5.2kHz

Bluetooth LE 1Mbps



Bluetooth LE 2Mbps





Appendix D. Reference Report

Please refer to Sporton report number FR381717B which is issued separately.