

Report No.: SUCR241100043802
Rev.: 01
Page: 1 of 90

TEST REPORT

Application No.: SUCR2411000438TL
Applicant: Gosuncn Technology Group Co., Ltd.
Address of Applicant: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer: Gosuncn Technology Group Co., Ltd.
Address of Manufacturer: 6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
EUT Description: LTE OBDII Dongle
Model No.: GD201E
Trade Mark: GOSUNCN
FCC ID: 2APNR-GD201E
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: November 04, 2024
Date of Test: November 05, 2024 ~ November 13, 2024
Date of Issue: November 20, 2024

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Nature Shen

Cloud Peng

Prepared by: Nature Shen/ Project Manager

Approved by: Cloud Peng/ Technical Manager

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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241100043802
Rev.: 01
Page: 2 of 90

Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		November 20, 2024		Original

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Contents

Version	2
1 Test Summary	4
2 General Information	5
2.1 Details of Client	5
2.2 Test Location	5
2.3 Test Facility	5
2.4 General Description of EUT	6
2.5 Test Environment	8
2.6 Description of Support Units	8
3 Test results and Measurement Data	9
3.1 Antenna Requirement	9
3.2 AC Power Line Conducted Emissions	10
3.3 Duty Cycle	16
3.4 Conducted Output Power	17
3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	18
3.6 Power Spectral Density	19
3.7 Band-edge for RF Conducted Emissions	20
3.8 RF Conducted Spurious Emissions	21
3.9 Radiated Spurious Emissions	22
3.10 Restricted bands around fundamental frequency	25
4 Measurement Uncertainty (95% confidence levels, k=2)	27
5 Equipment List	28
6 Photographs - Setup Photos	30
Radiated Spurious Emissions	59
Radiated emission below 1GHz	59
Transmitter emission Above 1GHz	63
Restricted bands around fundamental frequency	75

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1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 3.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.2	PASS
Duty cycle	--	ANSI C63.10 2013 Section 11.6	Clause 3.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 3.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 3.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.13.3	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.10	PASS

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2 General Information

2.1 Details of Client

Applicant:	Gosuncn Technology Group Co., Ltd.
Address of Applicant:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.
Manufacturer:	Gosuncn Technology Group Co., Ltd.
Address of Manufacturer:	6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.4 General Description of EUT

EUT Description:	LTE OBDII Dongle	
Model No.:	GD201E	
Trade Mark:	GOSUNCN	
Hardware Version:	GD201_HW_V1.0	
Software Version:	BG95M3LAR02A03	
Power Supply:	12V, 24V	
IMEI:	RF Conducted	864259061527435
	RSE & AC power line	866088070670090
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.	
Bluetooth version:	Bluetooth V5.1	
Modulation Type:	GFSK	
Number of Channel:	40	
Rates Type:	<input checked="" type="checkbox"/> Provided by client	
	1M PHY	2M PHY
Antenna Type:	LDS Antenna	
Antenna Gain:	0.47dBi	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1dB	
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Operation Frequency of each channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Remark:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
BLE 1M:	
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz
BLE 2M:	
The Lowest channel(CH1)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH38)	2480MHz

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Report No.: SUCR241100043802

Rev.: 01

Page: 8 of 90

2.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12, 24
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

The EUT has been tested as an independent unit.

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Report No.: SUCR241100043802

Rev.: 01

Page: 9 of 90

3 Test results and Measurement Data

3.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: 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, 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.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p> <p>The antenna is LDS Antenna and no consideration of replacement. The best case gain of the antenna is 0.47dBi.</p> <p><i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	

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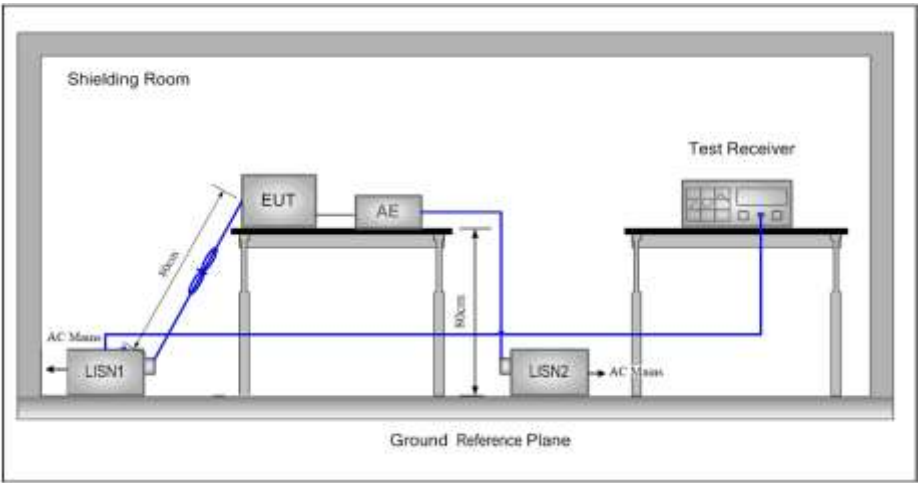
3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range(MHz)	Limit (dBuV)	
		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.			
Test Procedure:	<ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. 		

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Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass

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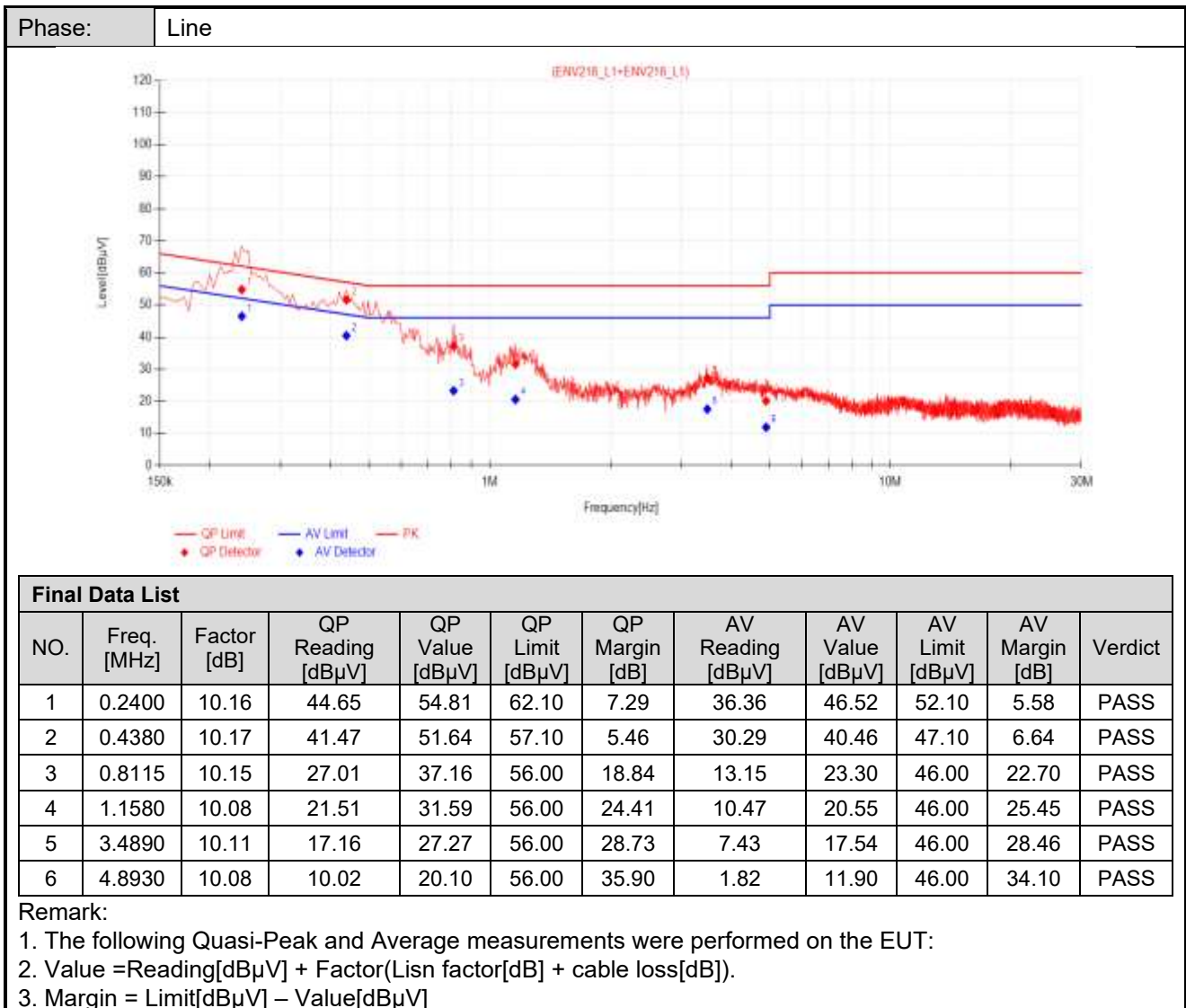
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

BLE 1M:

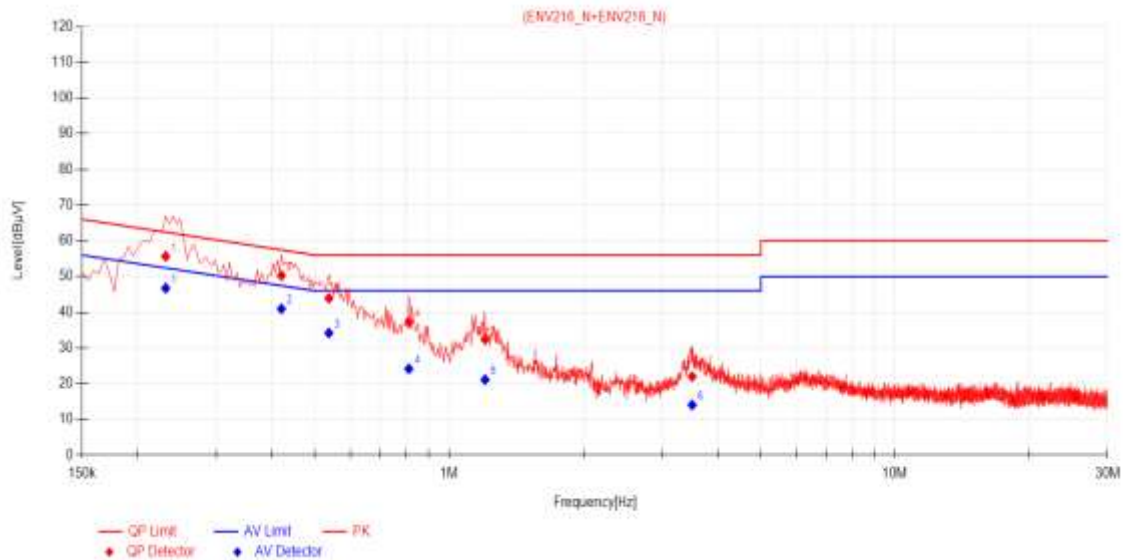


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Phase: Neutral



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2310	10.17	45.49	55.66	62.41	6.75	36.56	46.73	52.41	5.68	PASS
2	0.4200	10.16	40.10	50.26	57.45	7.19	30.80	40.96	47.45	6.49	PASS
3	0.5370	10.17	33.75	43.92	56.00	12.08	24.01	34.18	46.00	11.82	PASS
4	0.8115	10.16	27.11	37.27	56.00	18.73	14.00	24.16	46.00	21.84	PASS
5	1.2030	10.10	22.29	32.39	56.00	23.61	11.03	21.13	46.00	24.87	PASS
6	3.5070	10.14	11.85	21.99	56.00	34.01	3.90	14.04	46.00	31.96	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBμV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBμV] – Value[dBμV]

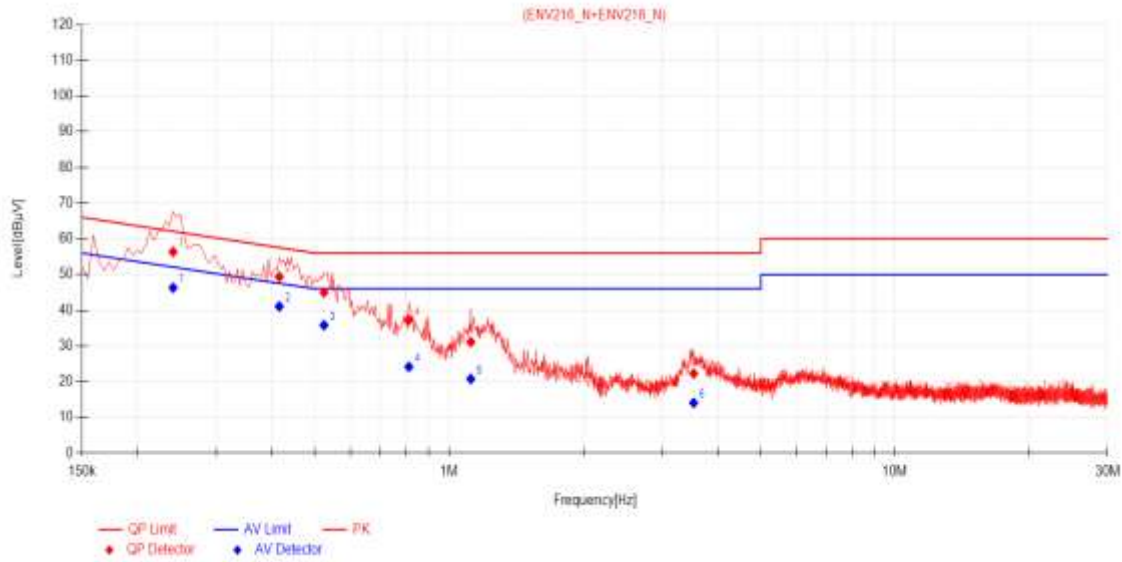
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BLE 2M:

Phase: Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2400	10.16	46.19	56.35	62.10	5.75	36.12	46.28	52.10	5.82	PASS
2	0.4155	10.16	39.20	49.36	57.54	8.18	30.90	41.06	47.54	6.48	PASS
3	0.5235	10.17	34.81	44.98	56.00	11.02	25.63	35.80	46.00	10.20	PASS
4	0.8115	10.16	27.09	37.25	56.00	18.75	13.98	24.14	46.00	21.86	PASS
5	1.1175	10.09	21.01	31.10	56.00	24.90	10.68	20.77	46.00	25.23	PASS
6	3.5340	10.14	12.13	22.27	56.00	33.73	3.93	14.07	46.00	31.93	PASS

Remark:

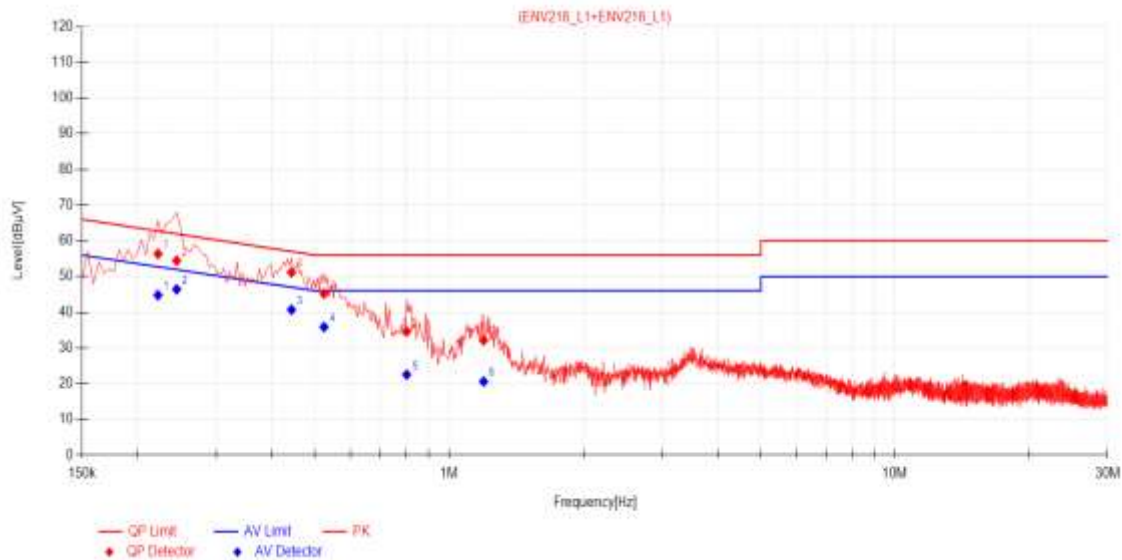
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBμV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBμV] – Value[dBμV]

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Phase: Neutral



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2220	10.17	46.17	56.34	62.74	6.40	34.61	44.78	52.74	7.96	PASS
2	0.2445	10.16	44.26	54.42	61.94	7.52	36.26	46.42	51.94	5.52	PASS
3	0.4425	10.17	41.00	51.17	57.01	5.84	30.53	40.70	47.01	6.31	PASS
4	0.5235	10.18	35.03	45.21	56.00	10.79	25.68	35.86	46.00	10.14	PASS
5	0.8025	10.15	24.46	34.61	56.00	21.39	12.38	22.53	46.00	23.47	PASS
6	1.1940	10.07	22.07	32.14	56.00	23.86	10.53	20.60	46.00	25.40	PASS

Remark:

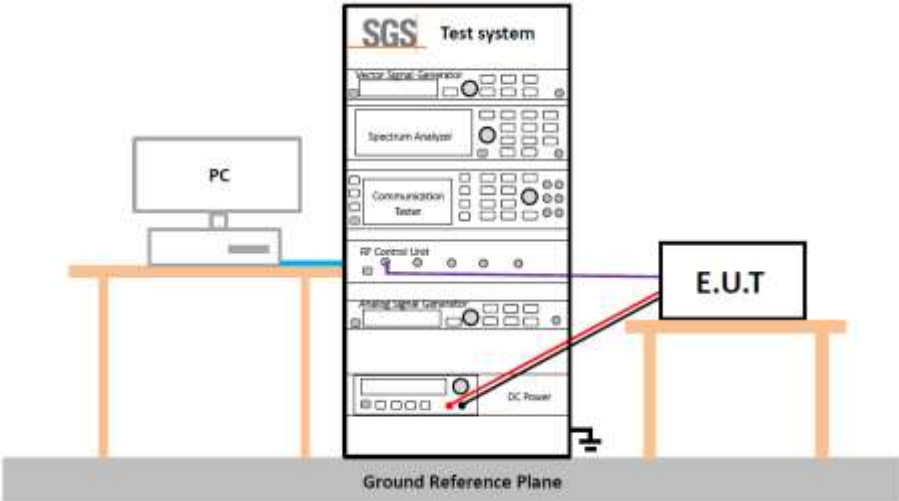
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBμV] + Factor(Lisn factor[dB] + cable loss[dB]).
- Margin = Limit[dBμV] – Value[dBμV]

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3.3 Duty Cycle

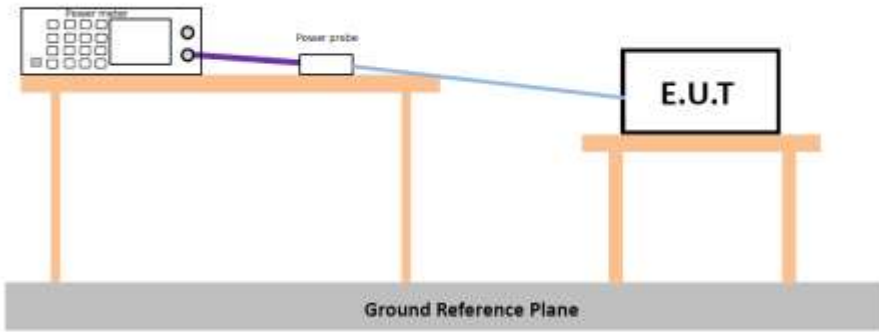
Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

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3.4 Conducted Output Power

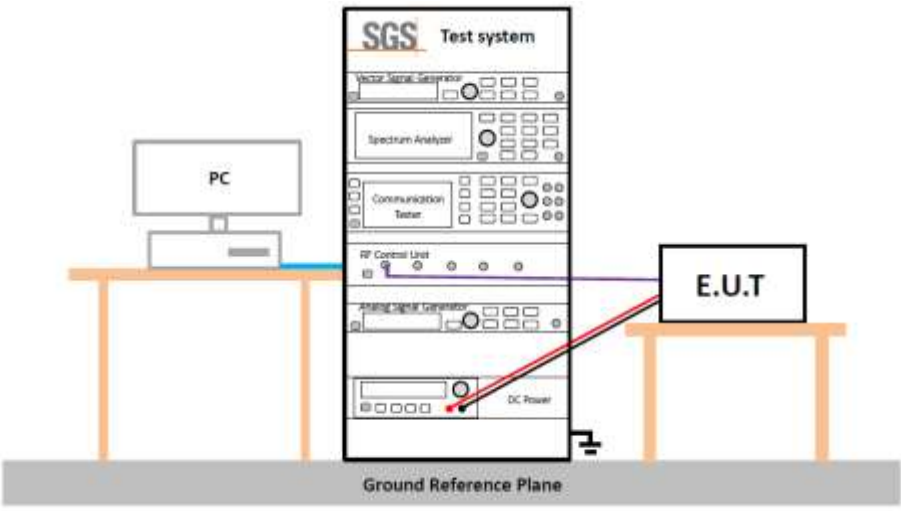
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	

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3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

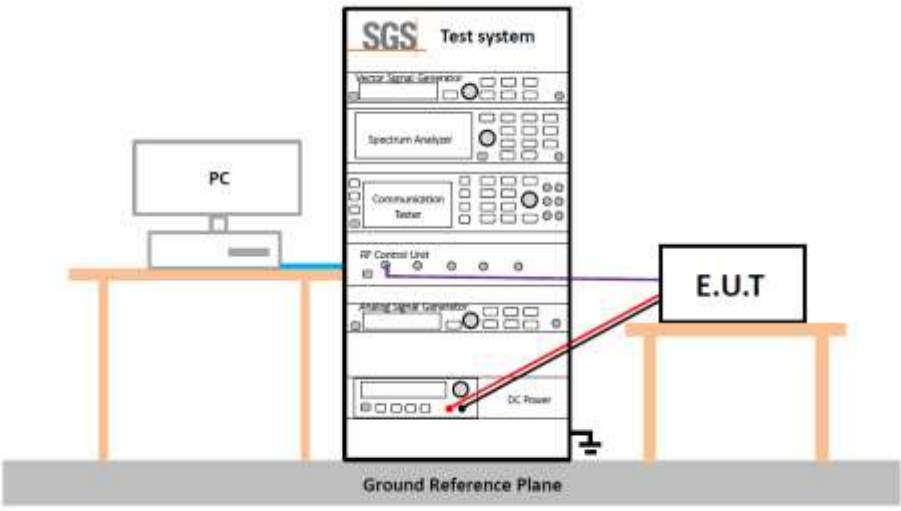
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	

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3.6 Power Spectral Density

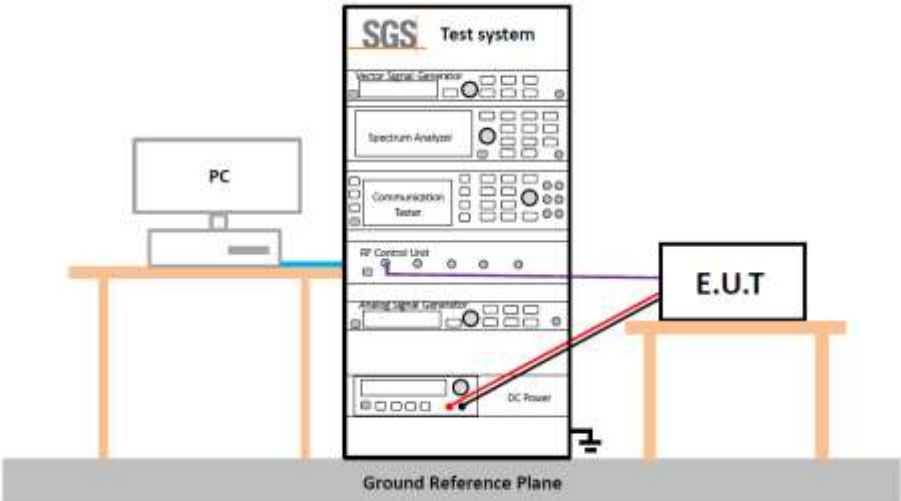
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	

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3.7 Band-edge for RF Conducted Emissions

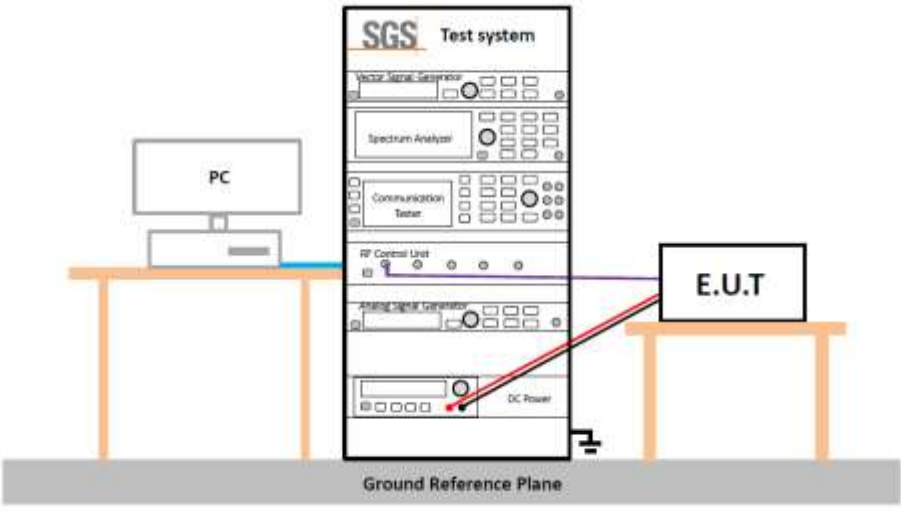
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

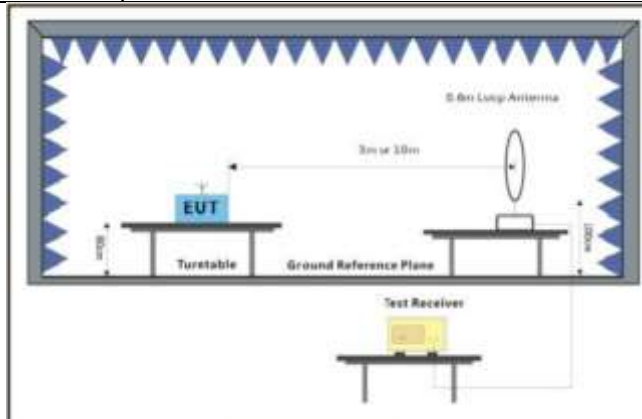


Figure 1. Below 30MHz

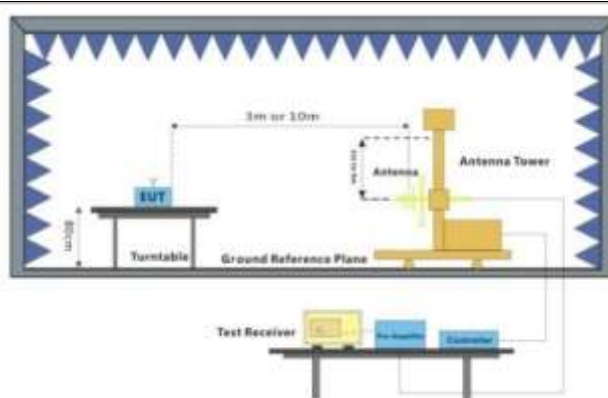


Figure 2. 30MHz to 1GHz

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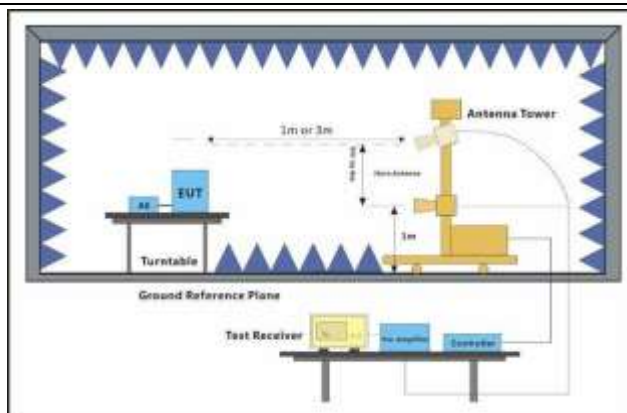


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.
- j. 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
- k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

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Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). <p>Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.</p> <ul style="list-style-type: none"> • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode,</p> <p>For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

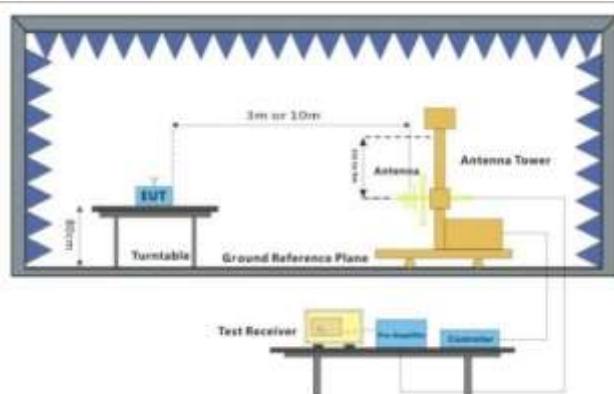


Figure 1. 30MHz to 1GHz

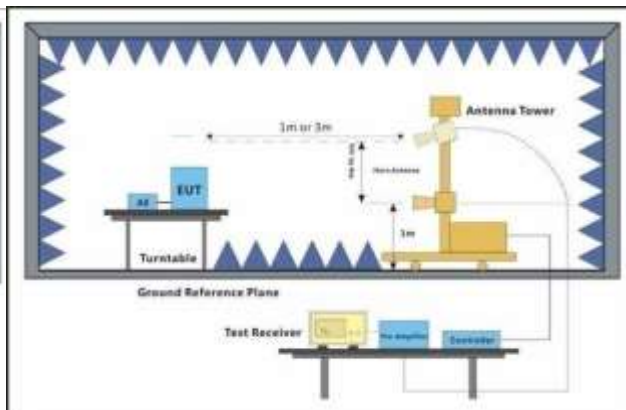


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the
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	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \leq (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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4 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)
Remark: The U _{lab} (lab Uncertainty) is less than U _{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		

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5 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/18/2024	2/17/2025
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	5/8/2024	5/7/2025
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	5/9/2024	5/8/2025
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2/4/2024	2/3/2025
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2/4/2024	2/3/2025
Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/21/2023	11/20/2024
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/21/2023	11/20/2024
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2/4/2024	2/3/2025
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2023	11/20/2024
RF Control Unit	TST	TSCB3023R2	SUWI-02-21-01	NCR	NCR

Conduction Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/4/2024	2/3/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/18/2024	2/17/2025
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2023	11/20/2024
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/21/2023	11/20/2024
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.

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Report No.: SUCR241100043802

Rev.: 01

Page: 30 of 90

6 Photographs - Setup Photos

Refer to Appendix A.2 Bluetooth BLE Setup Photos.

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Page: 31 of 90

Appendix

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Report No.: SUCR241100043802
Rev.: 01
Page: 32 of 90

Duty Cycle
Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.096	0.627	15.31	8.15	0.09
		2440	0.096	0.625	15.36	8.14	0.10
		2480	0.096	0.625	15.36	8.14	0.10
2M	SISO	2402	0.060	0.627	9.57	10.19	0.12
		2440	0.061	0.626	9.74	10.11	0.09
		2480	0.061	0.626	9.74	10.11	0.06

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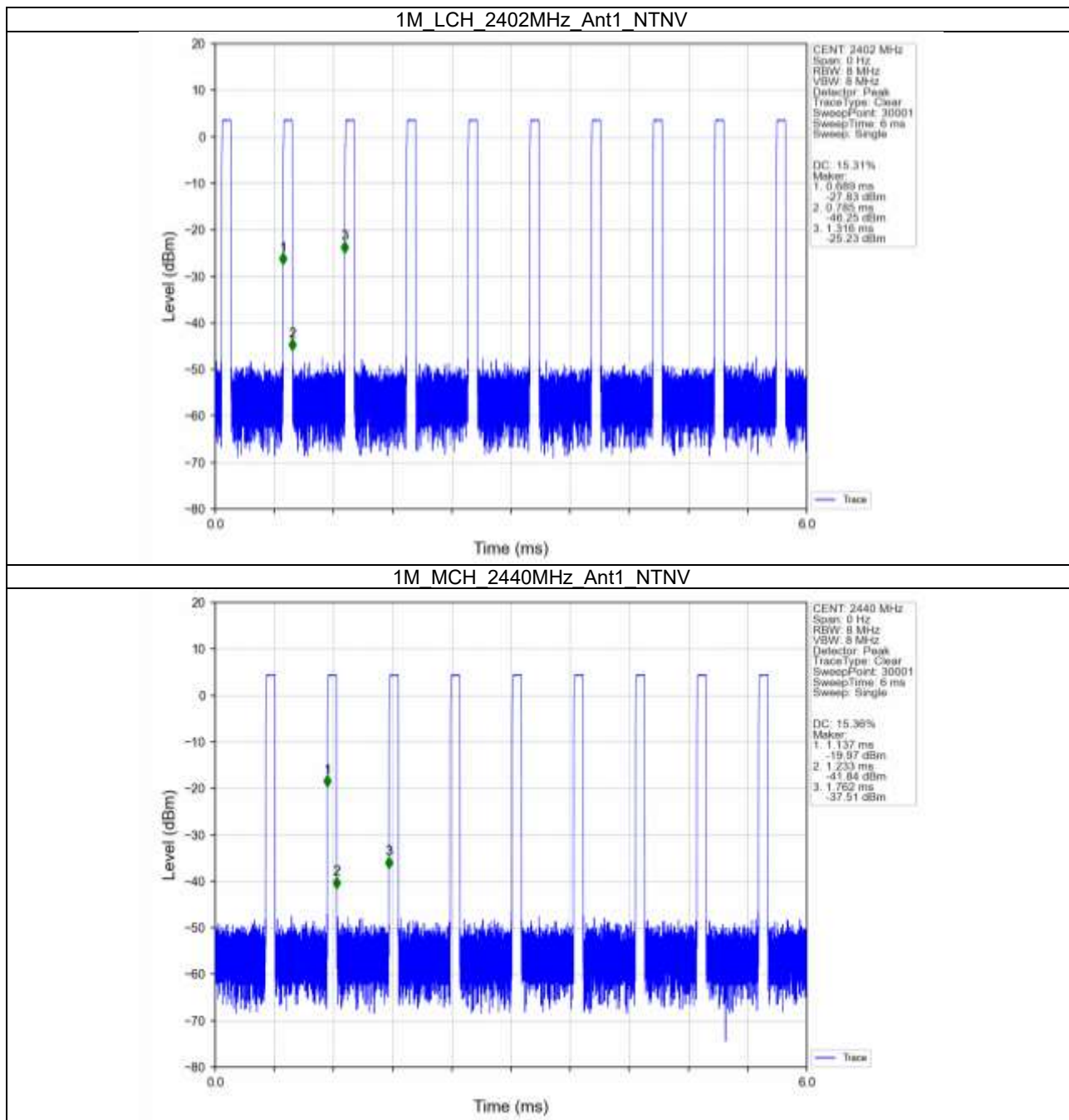
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Test Graphs

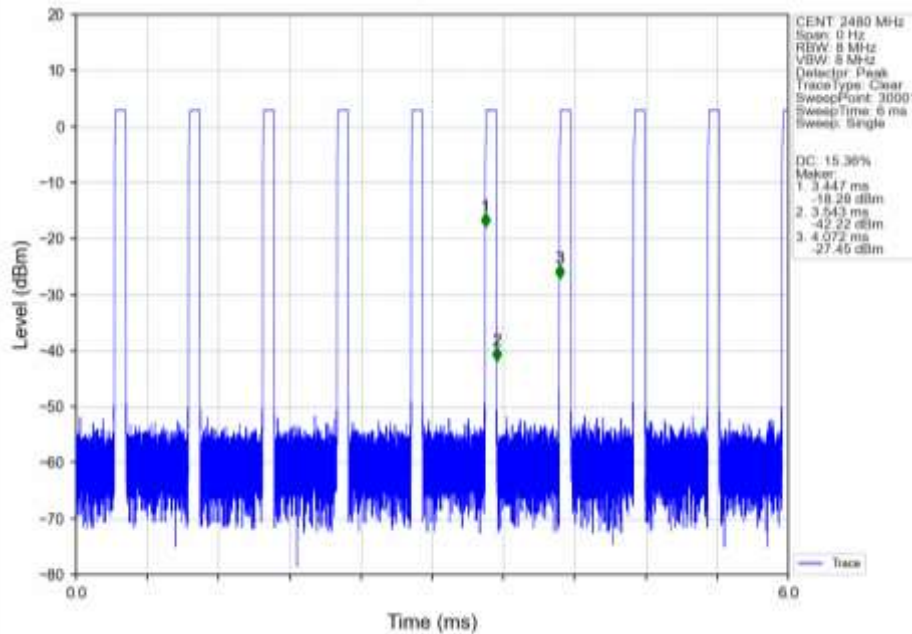


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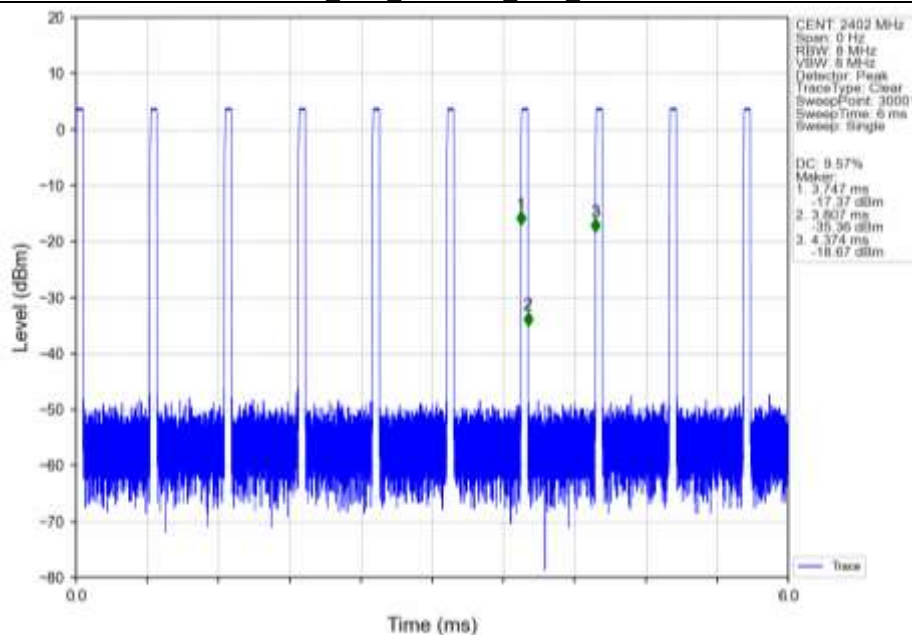
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1M HCH 2480MHz Ant1 NTN



2M LCH 2402MHz Ant1 NTN

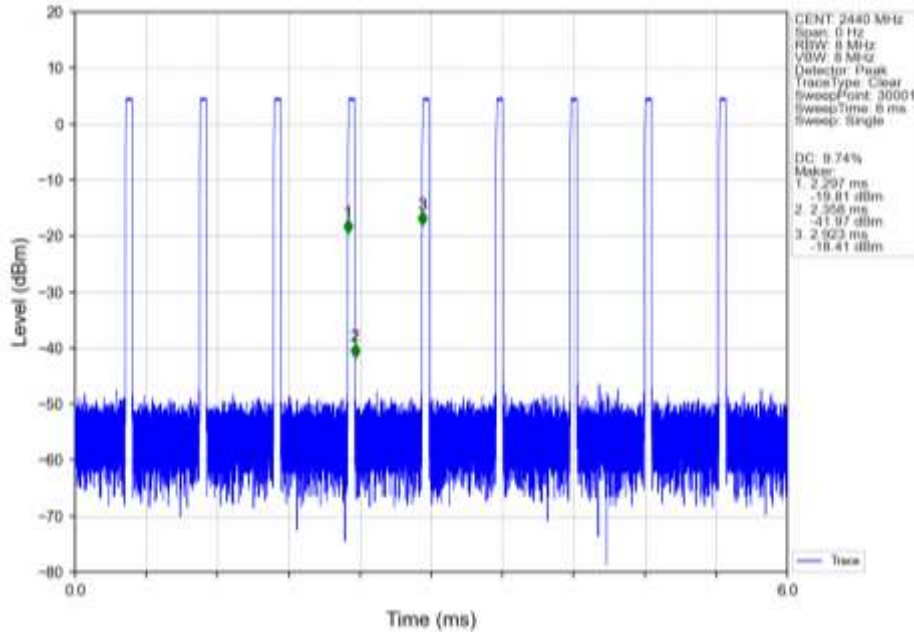


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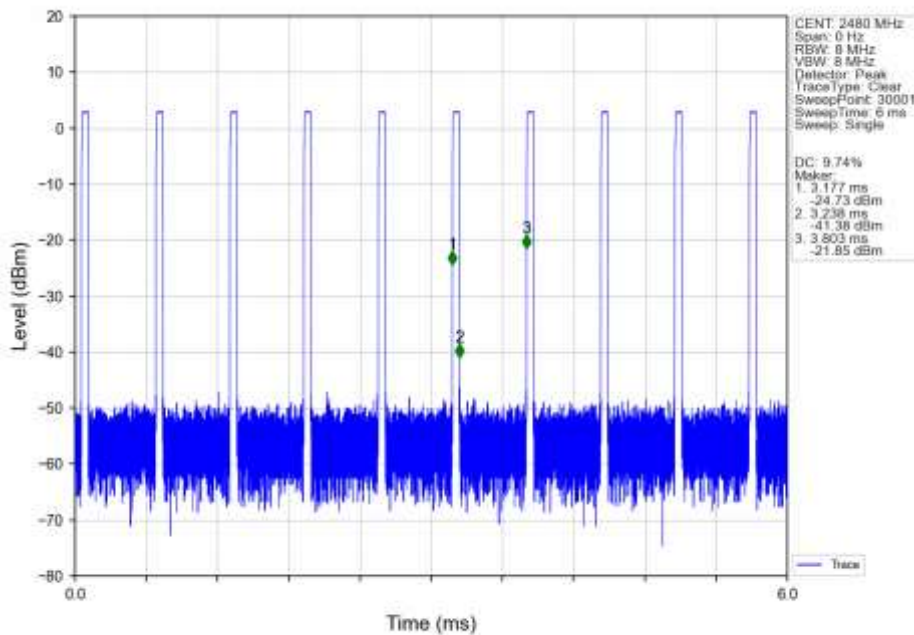
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2M MCH 2440MHz Ant1 NTN



2M HCH 2480MHz Ant1 NTN



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Maximum conducted output power Test Result Peak

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	3.64	<=30	Pass
		2440	4.39	<=30	Pass
		2480	2.87	<=30	Pass
2M	SISO	2402	3.67	<=30	Pass
		2440	4.43	<=30	Pass
		2480	2.92	<=30	Pass

Note1: Antenna Gain: Ant1: 0.47dBi;

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Report No.: SUCR241100043802
Rev.: 01
Page: 37 of 90

DTS Bandwidth
Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.511	>=0.5	Pass
		2440	1	0.507	>=0.5	Pass
		2480	1	0.511	>=0.5	Pass
2M	SISO	2402	1	0.872	>=0.5	Pass
		2440	1	0.874	>=0.5	Pass
		2480	1	0.876	>=0.5	Pass

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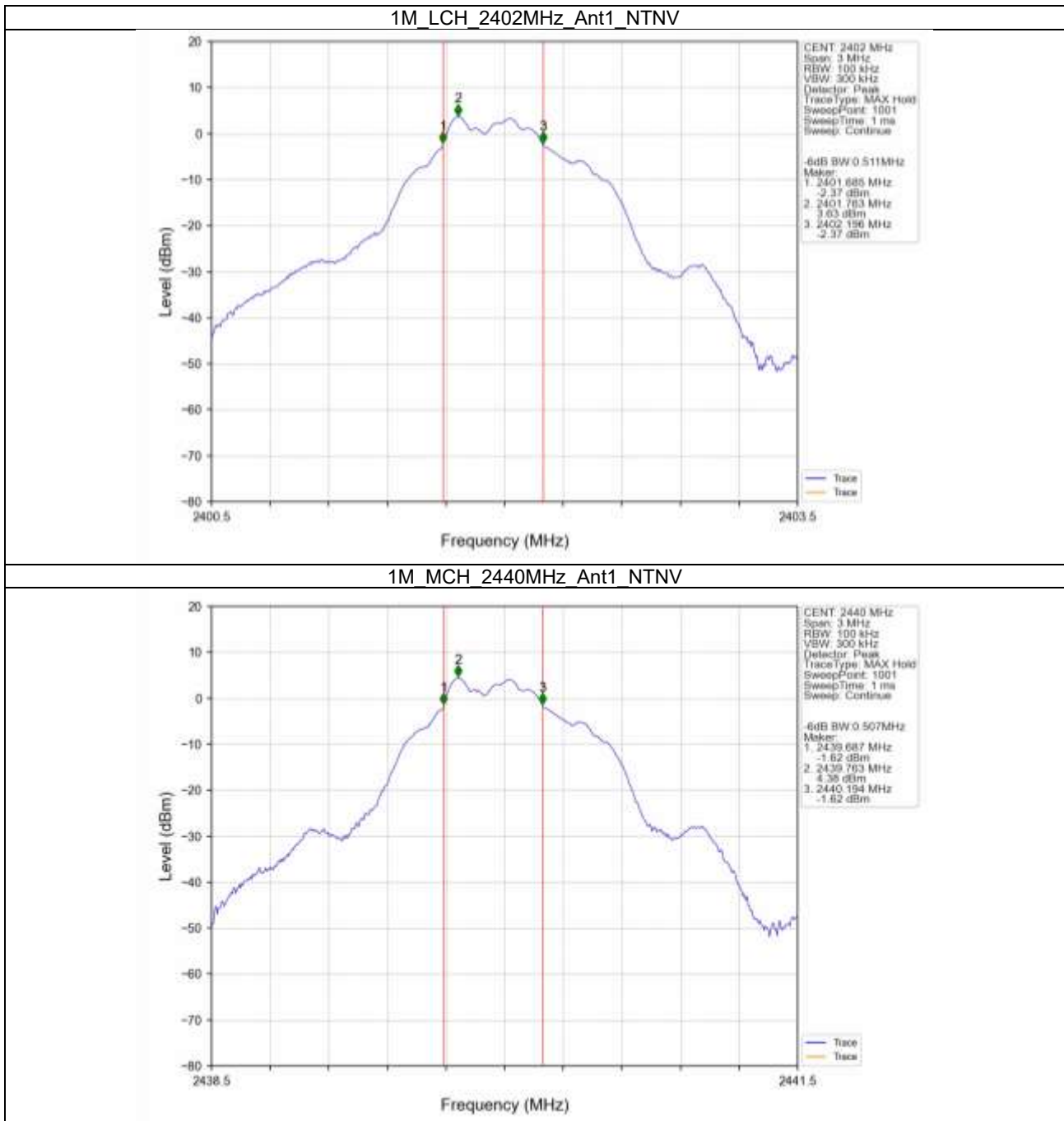
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Test Graphs

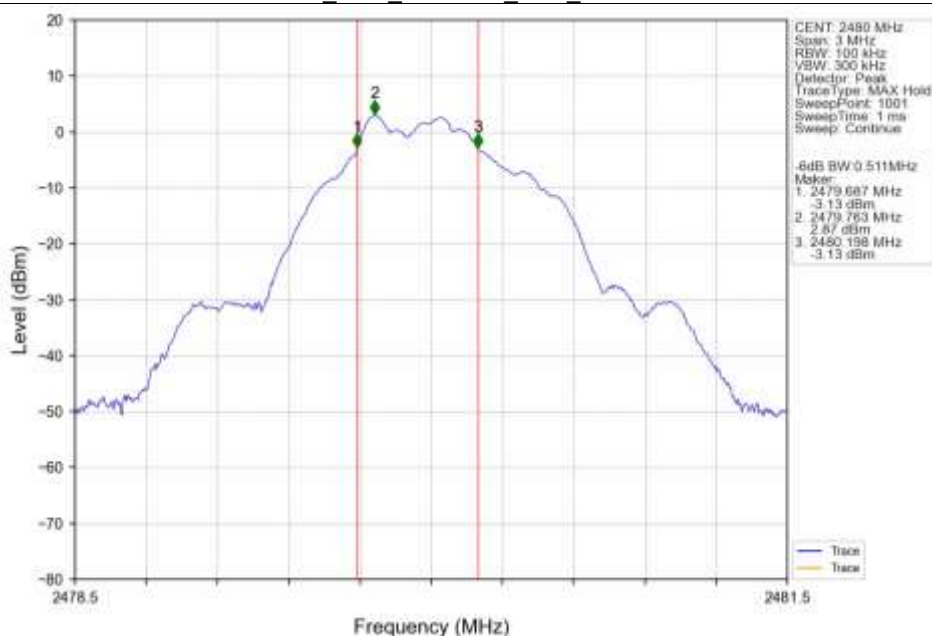


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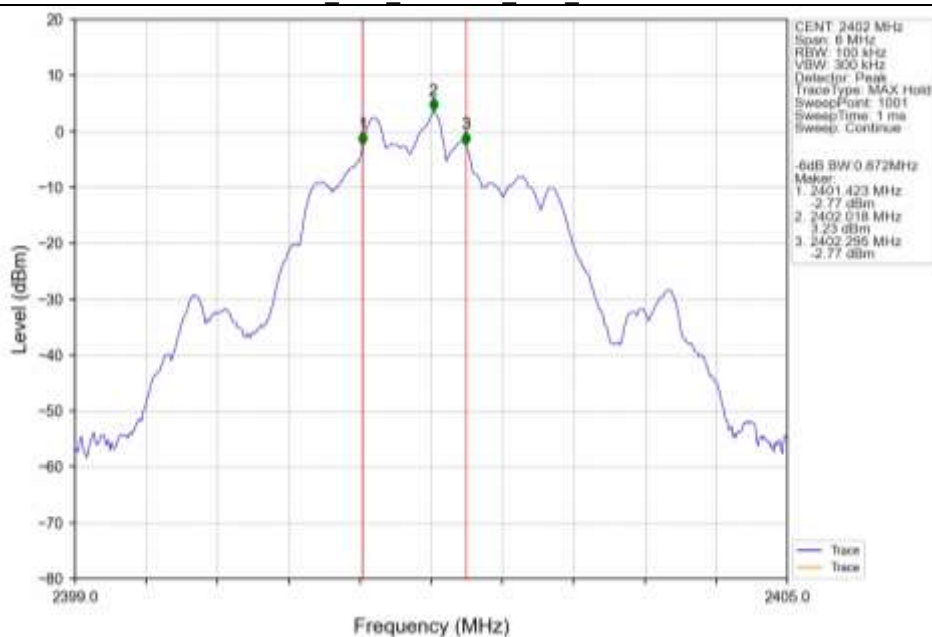
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV

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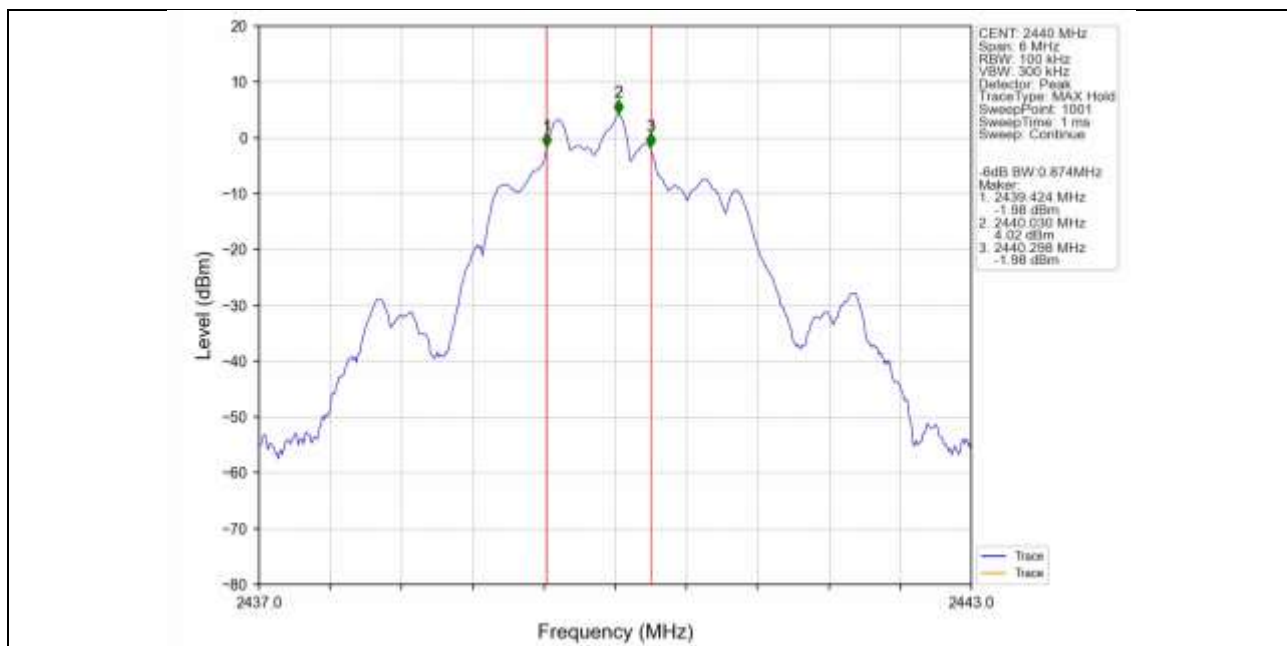
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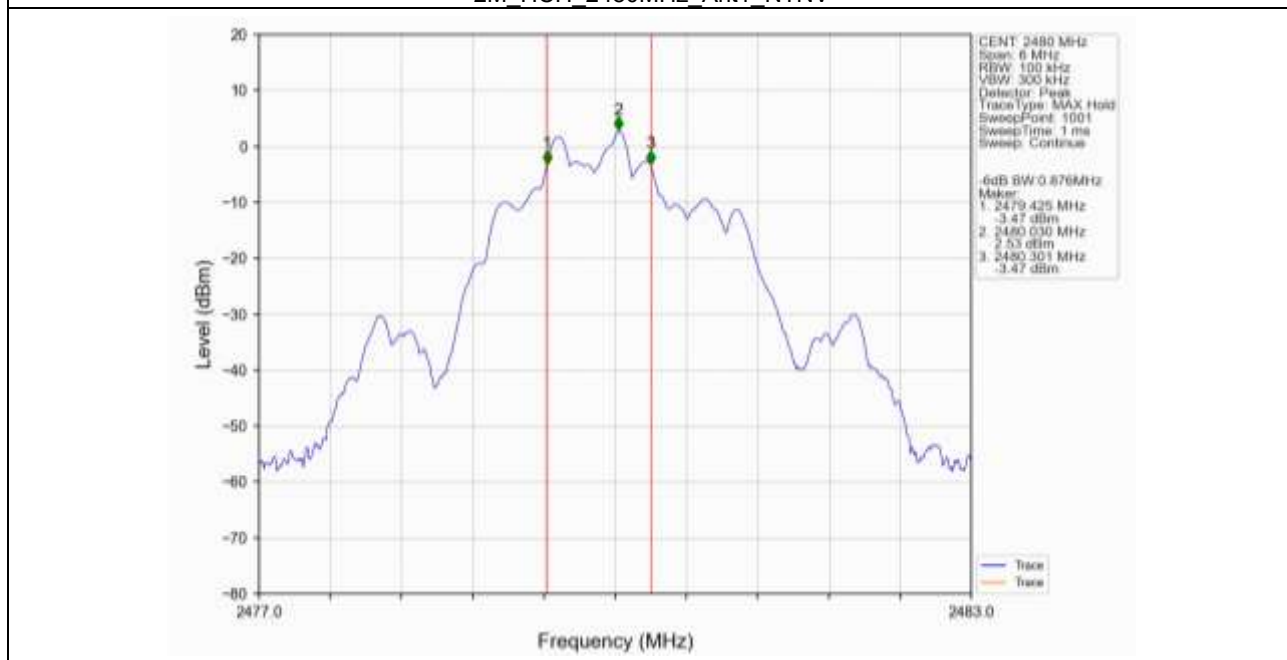
Report No.: SUCR241100043802

Rev.: 01

Page: 40 of 90



2M_HCH_2480MHz_Ant1_NTNV



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Report No.: SUCR241100043802
Rev.: 01
Page: 41 of 90

99% Occupied Bandwidth
Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.017	/	Pass
		2440	1	1.015	/	Pass
		2480	1	1.010	/	Pass
2M	SISO	2402	1	2.071	/	Pass
		2440	1	2.063	/	Pass
		2480	1	2.056	/	Pass

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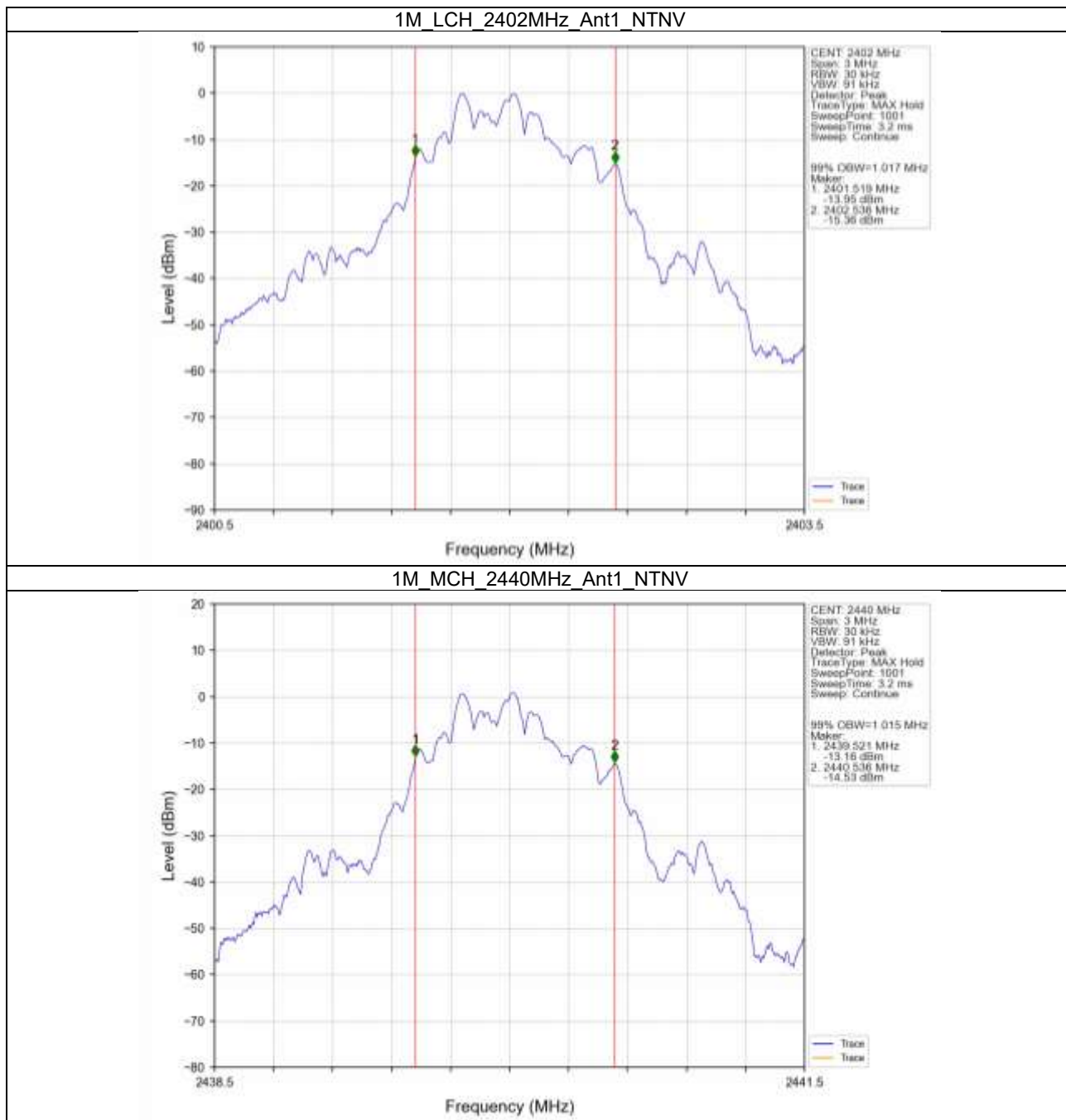
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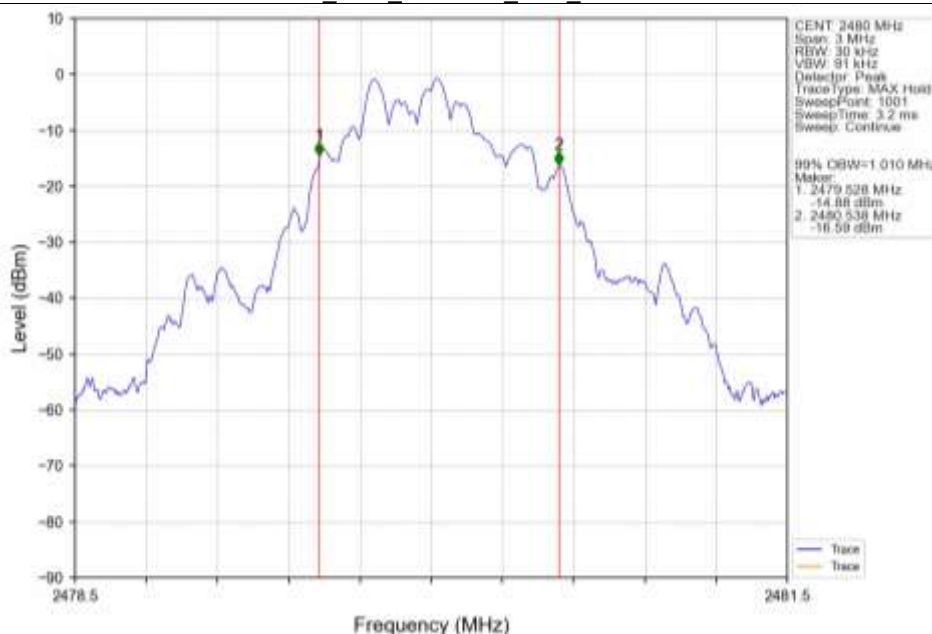


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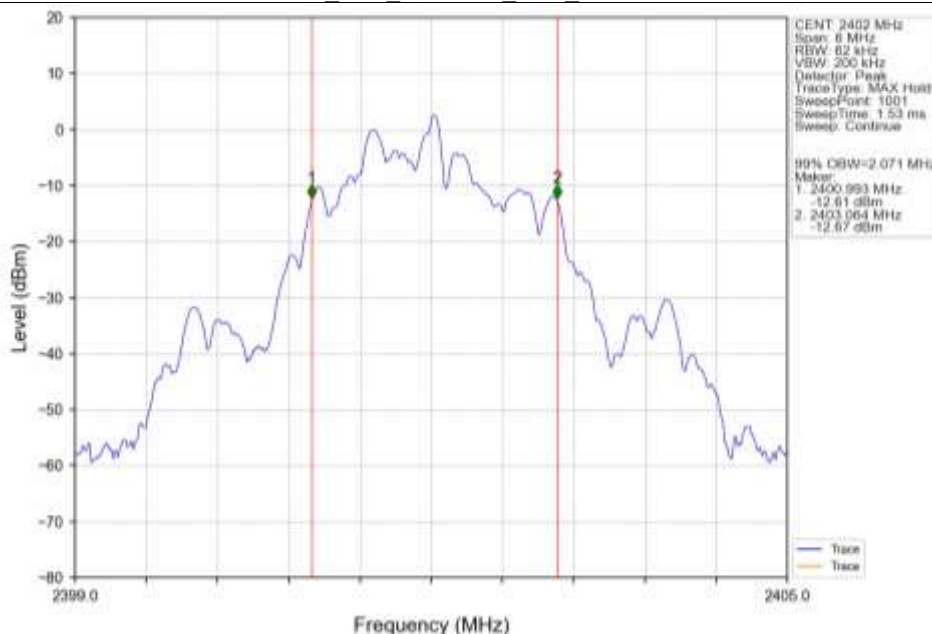
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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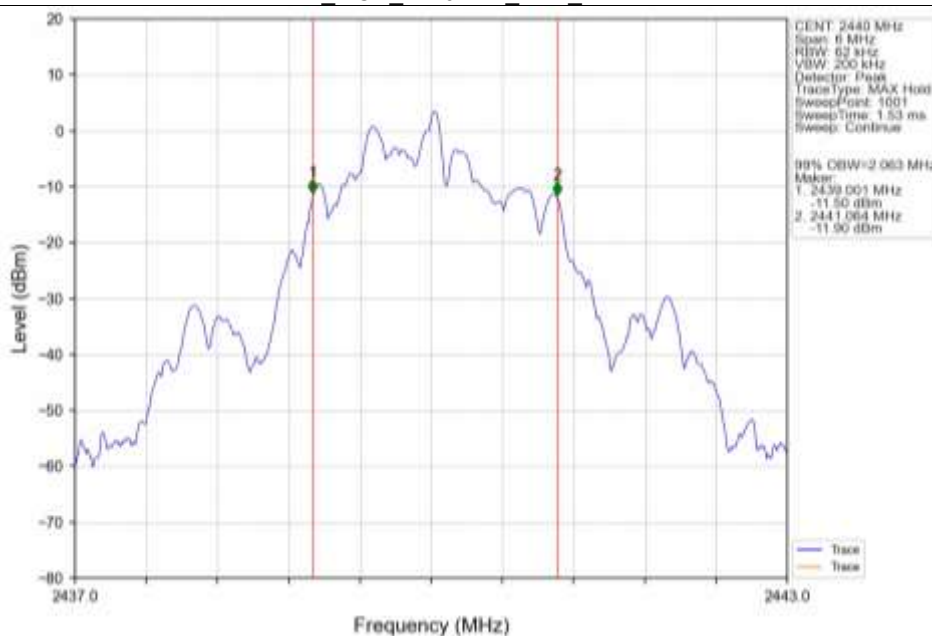
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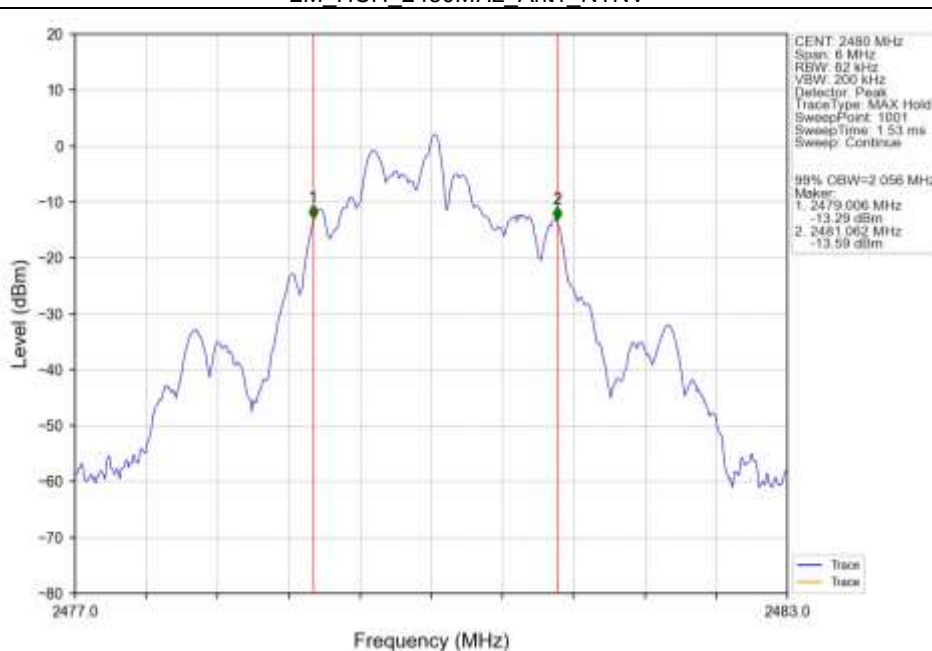
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Page: 44 of 90

2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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Report No.: SUCR241100043802

Rev.: 01

Page: 45 of 90

Maximum power spectral density Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-14.73	<=8	Pass
		2440	-13.41	<=8	Pass
		2480	-14.87	<=8	Pass
2M	SISO	2402	-16.82	<=8	Pass
		2440	-15.87	<=8	Pass
		2480	-17.36	<=8	Pass

Note1: Antenna Gain: Ant1: 0.47dBi;

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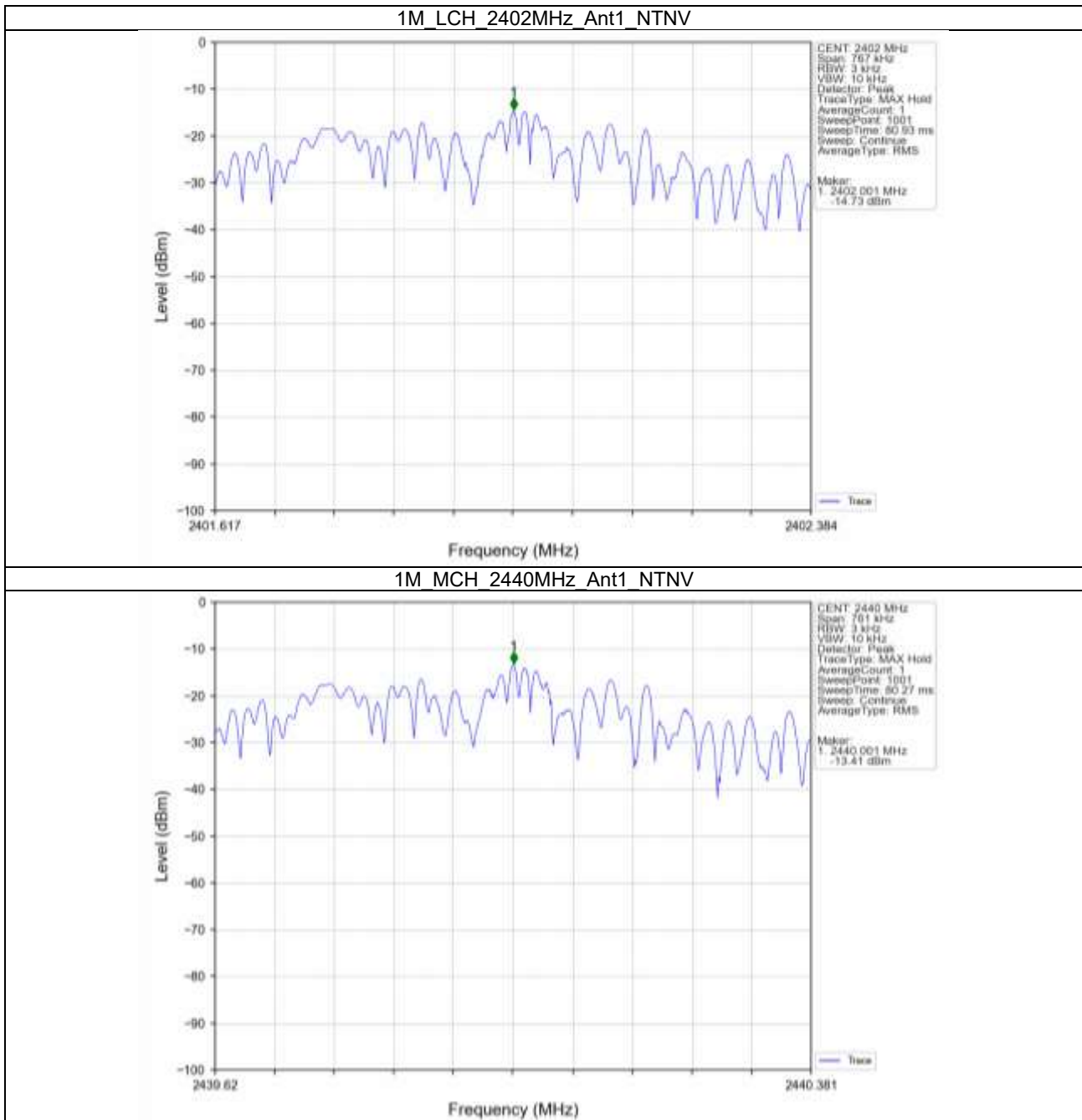
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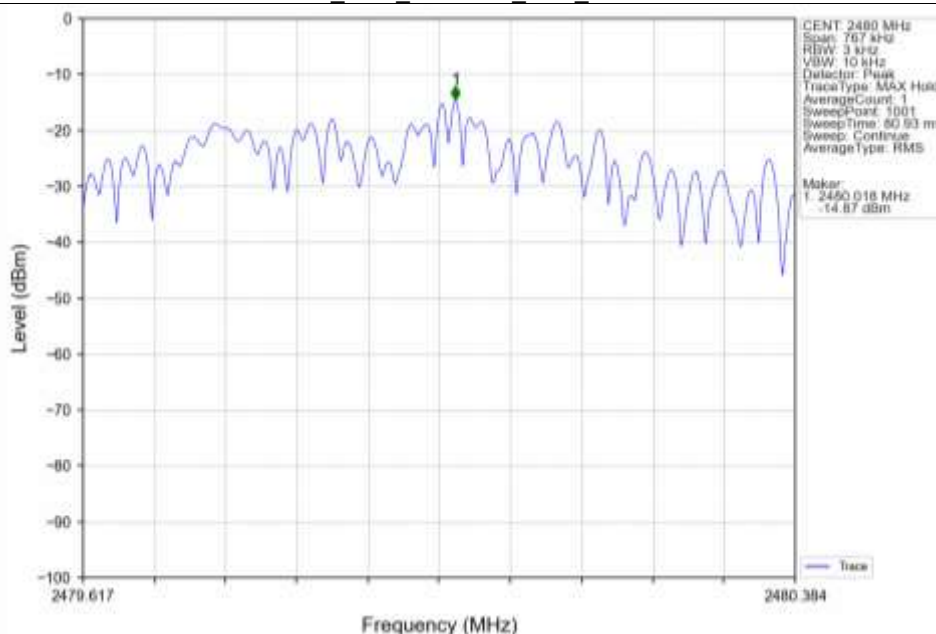
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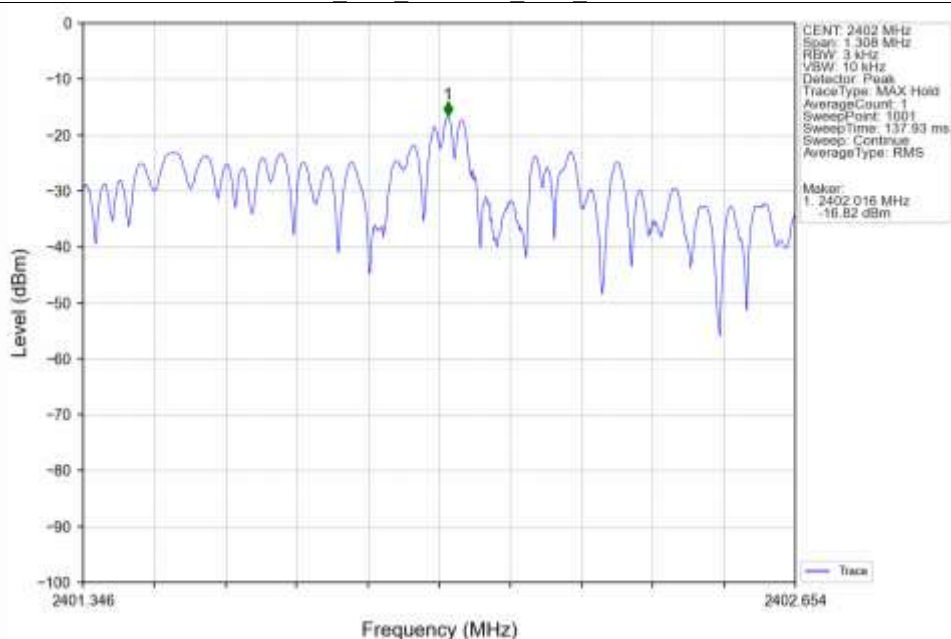
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Page: 47 of 90

1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV



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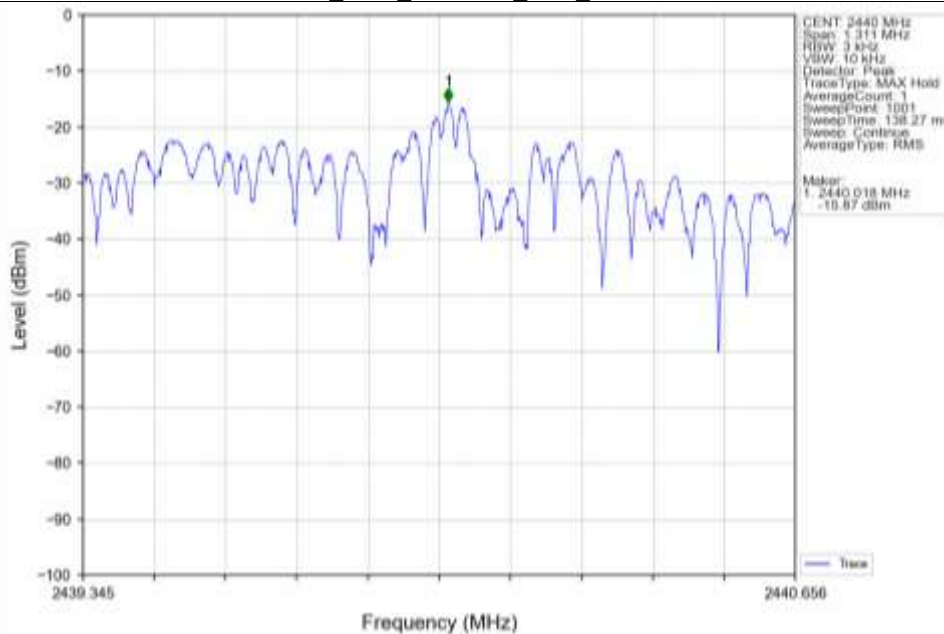
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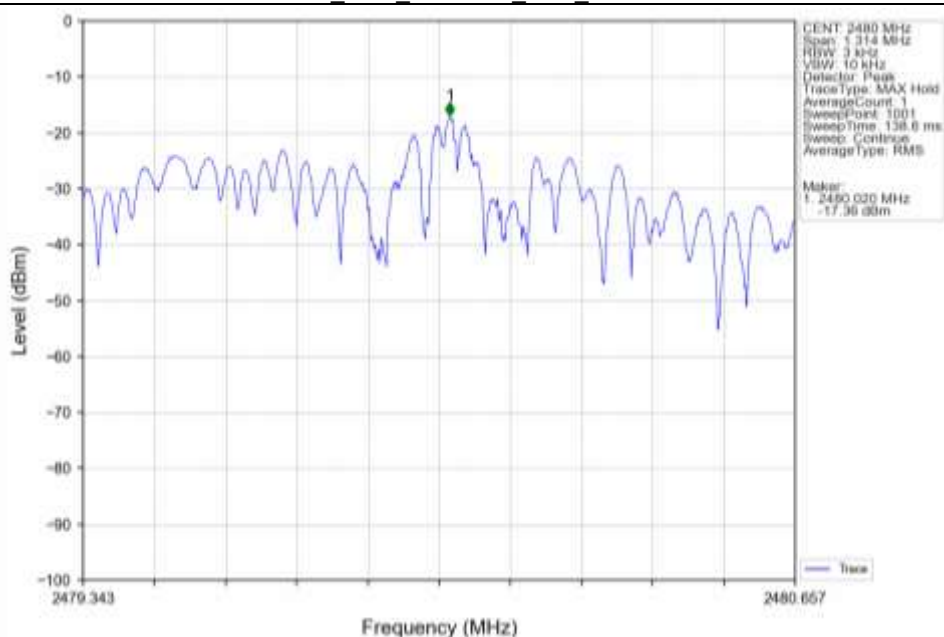
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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Report No.: SUCR241100043802

Rev.: 01

Page: 49 of 90

Unwanted Emissions In Non-restricted Frequency Bands Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	3.64
		2440	1	4.38
		2480	1	2.87
2M	SISO	2402	1	3.19
		2440	1	3.97
		2480	1	2.46

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

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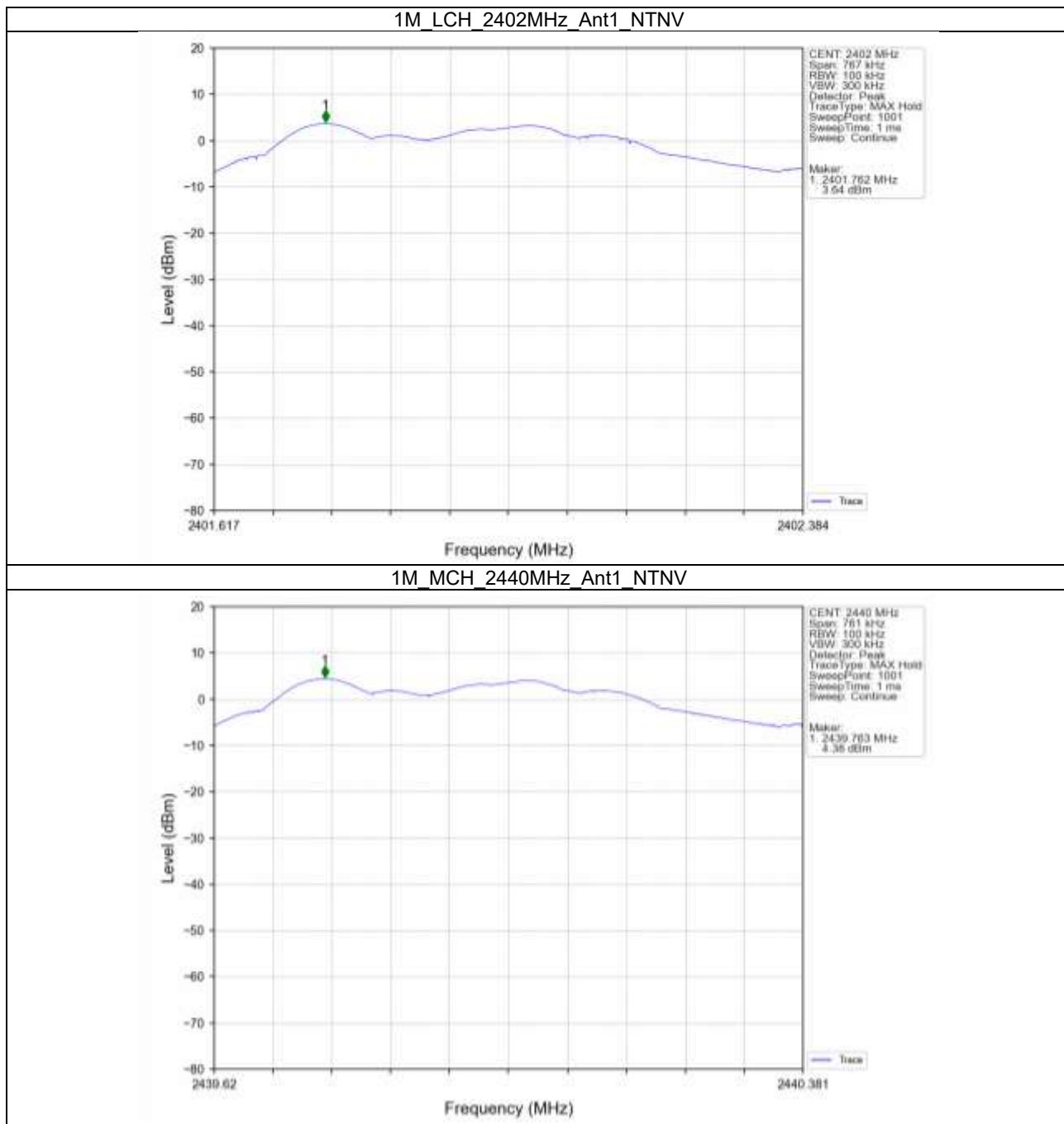
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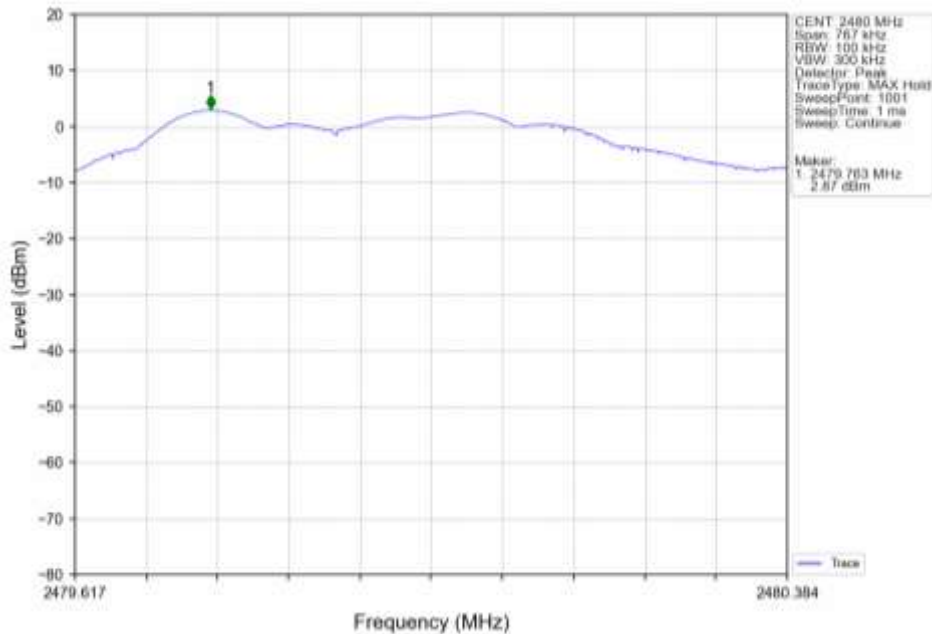


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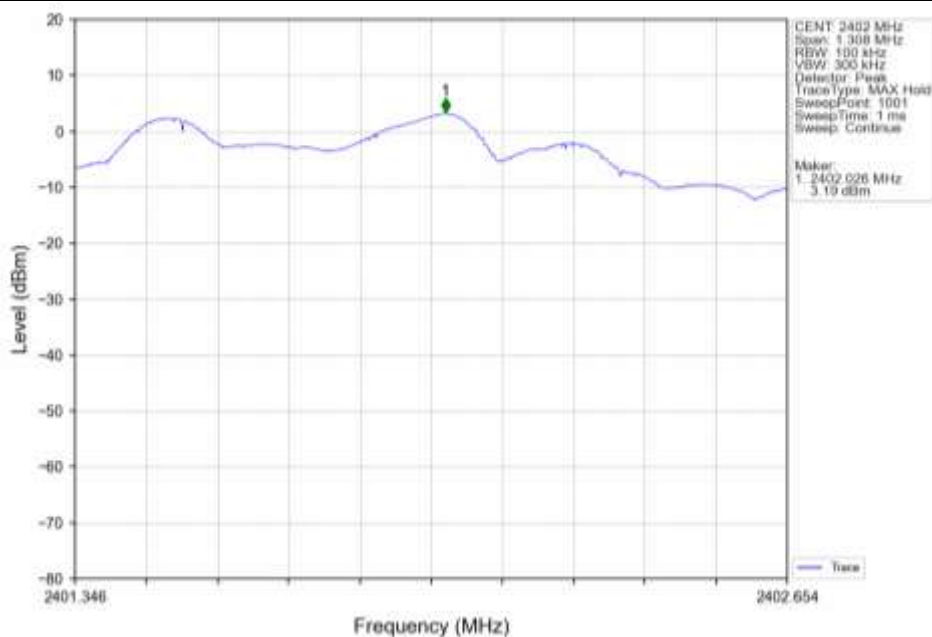
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2M_LCH_2402MHz_Ant1_NTNV

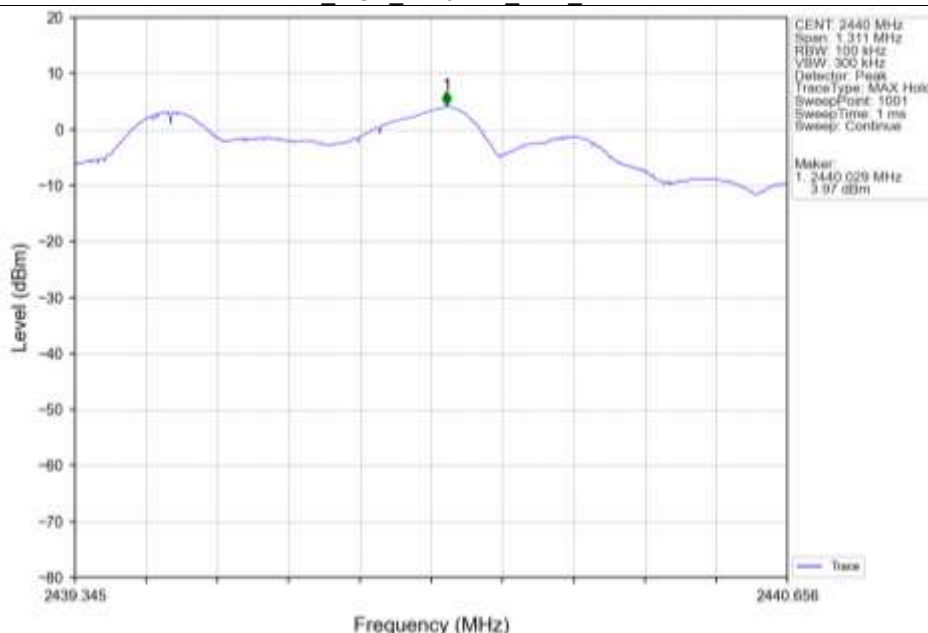


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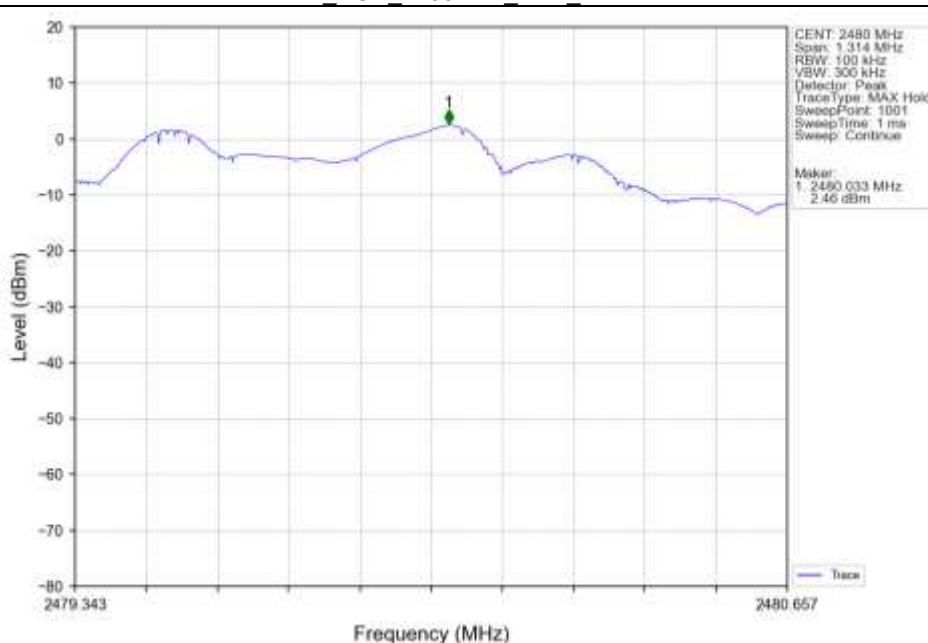
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Conducted Spurious Emission Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	4.38	-15.62	Pass
		2440	1	4.38	-15.62	Pass
		2480	1	4.38	-15.62	Pass
2M	SISO	2402	1	3.97	-16.03	Pass
		2440	1	3.97	-16.03	Pass
		2480	1	3.97	-16.03	Pass

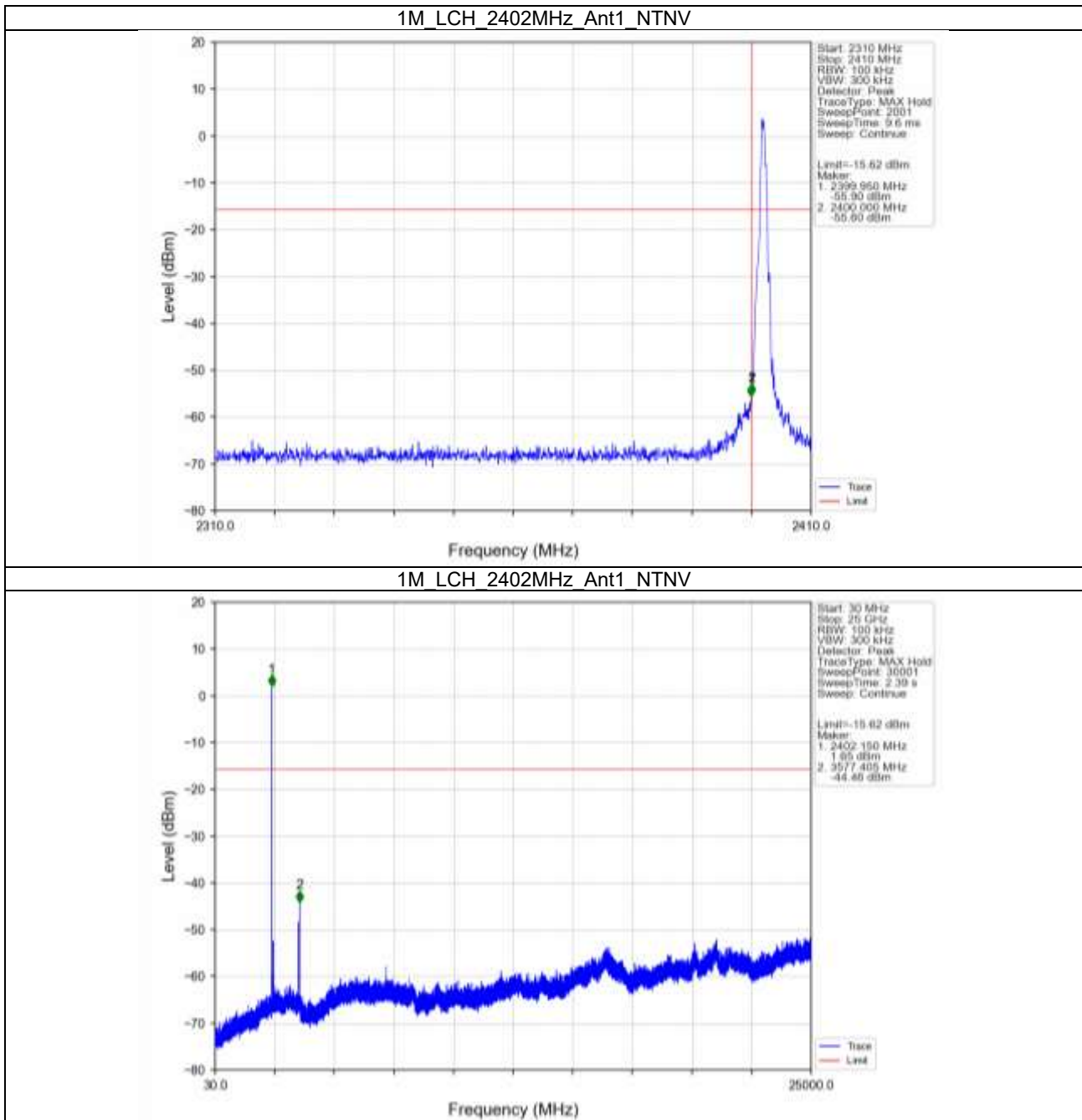
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

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Test Graphs

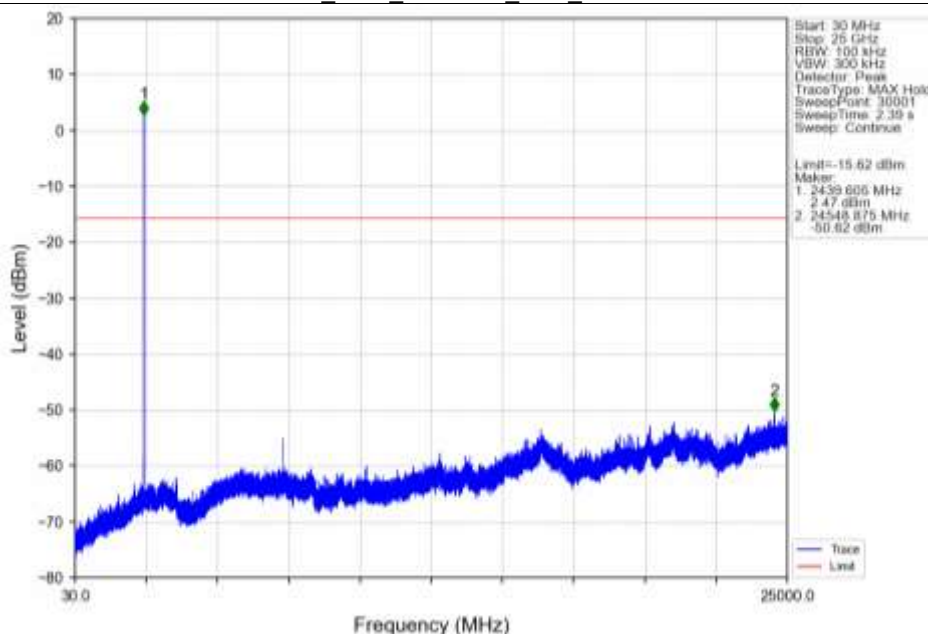


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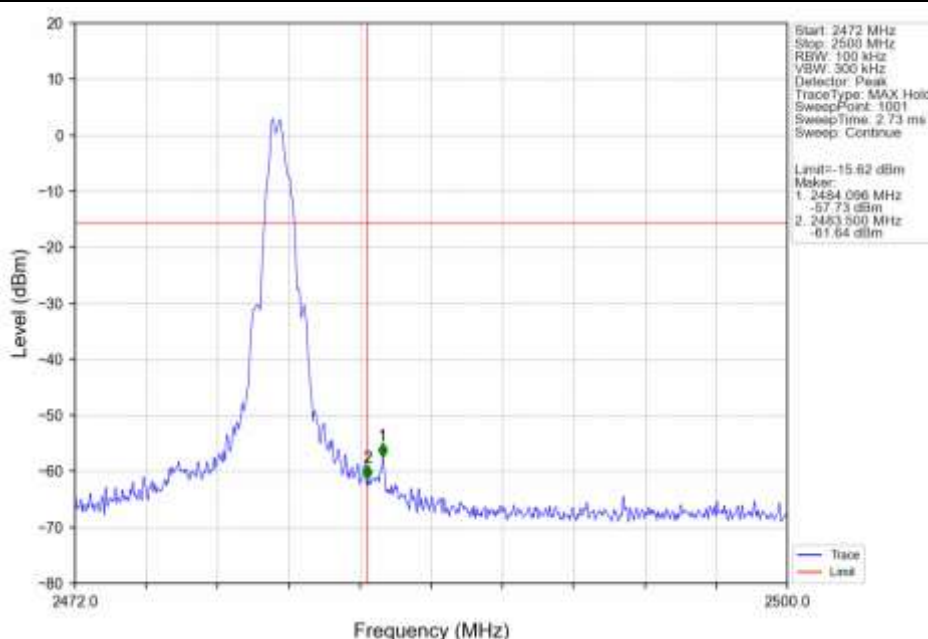
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1M_MCH_2440MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV

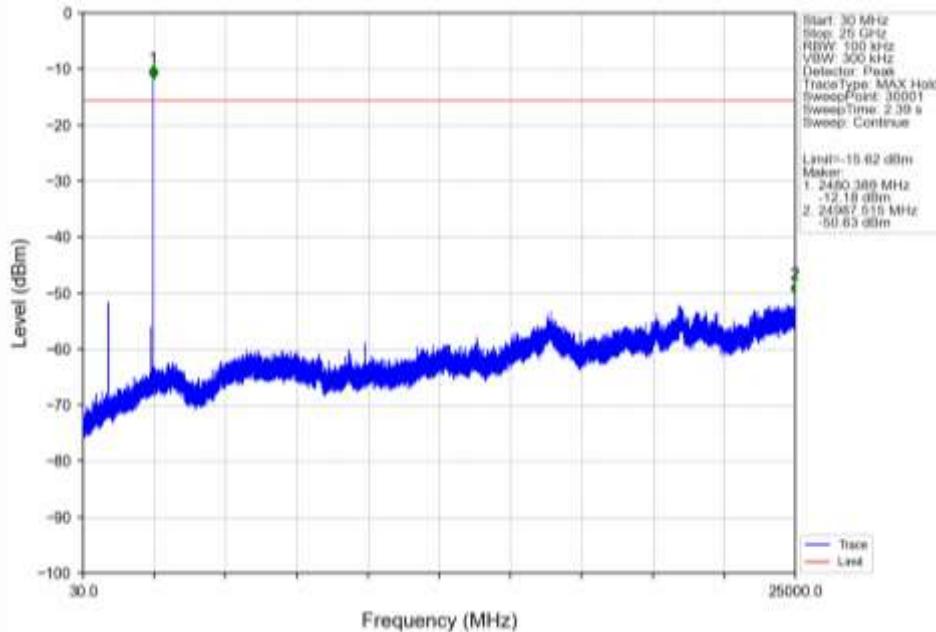


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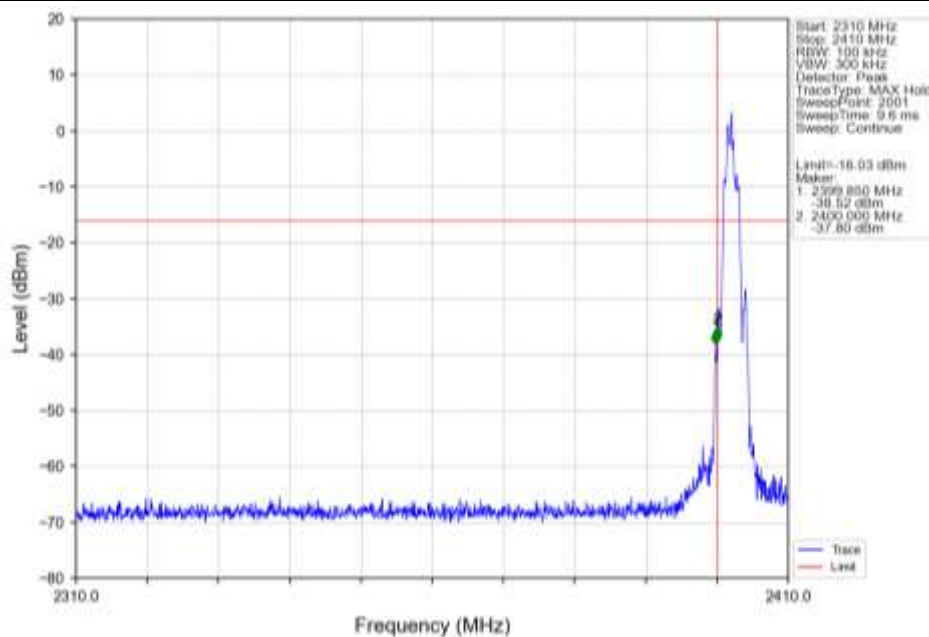
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV

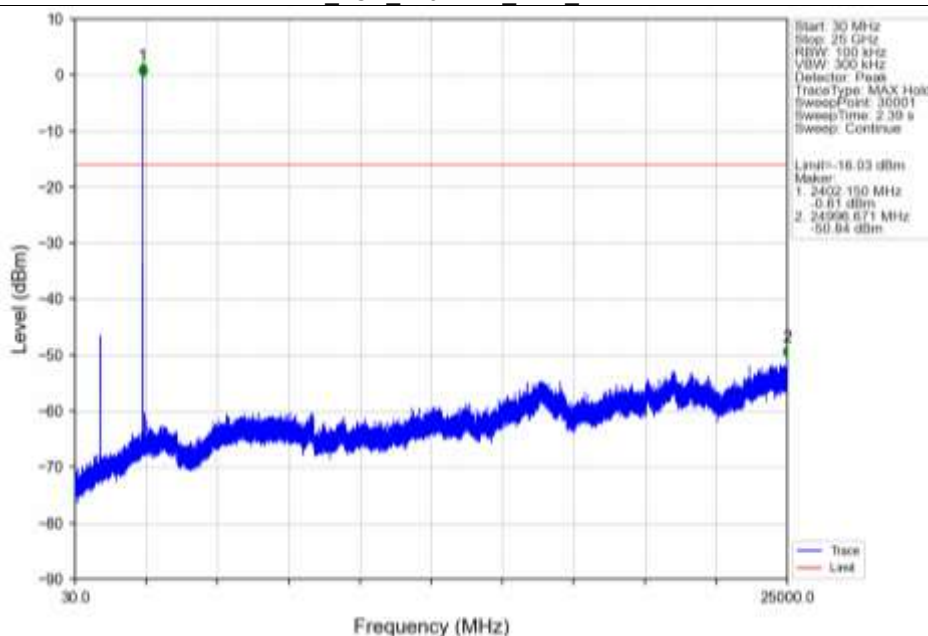


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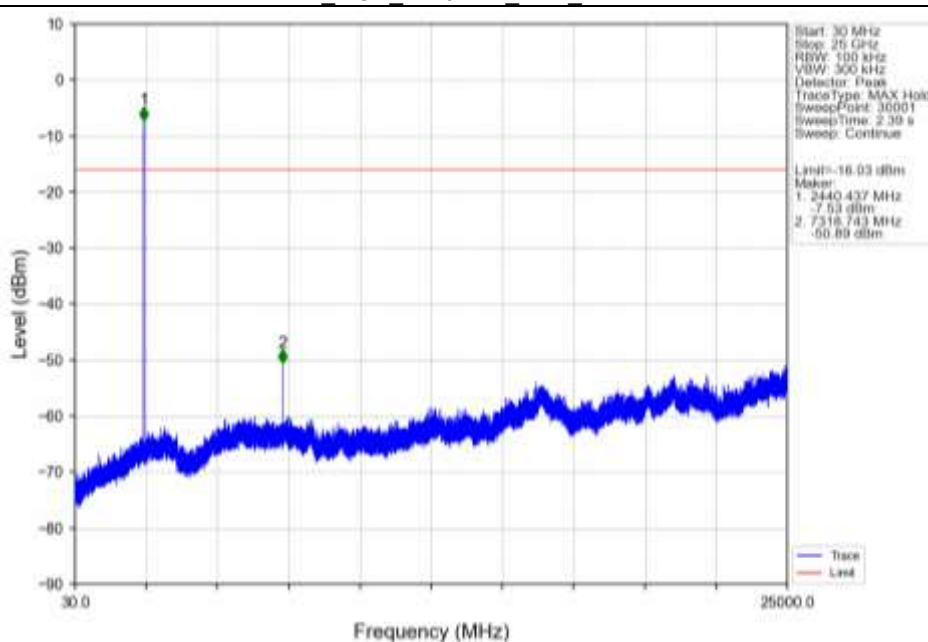
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2M LCH_2402MHz_Ant1_NTNV



2M MCH_2440MHz_Ant1_NTNV

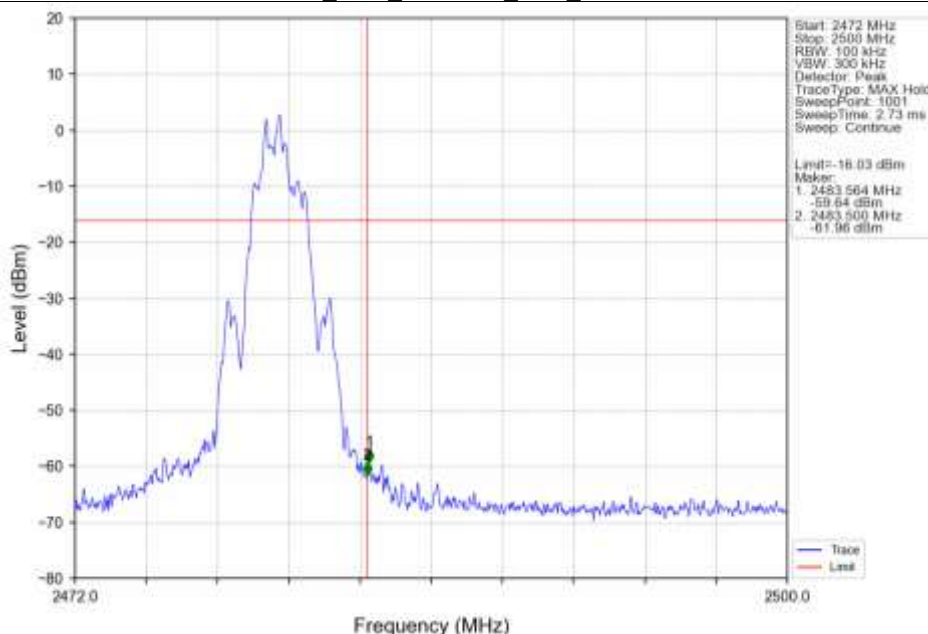


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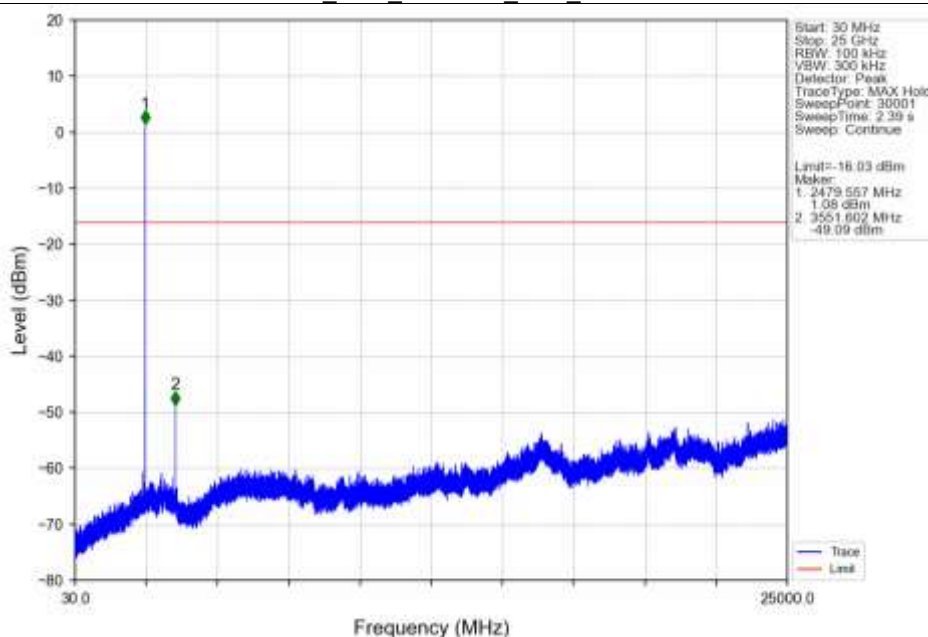
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2M_HCH_2480MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



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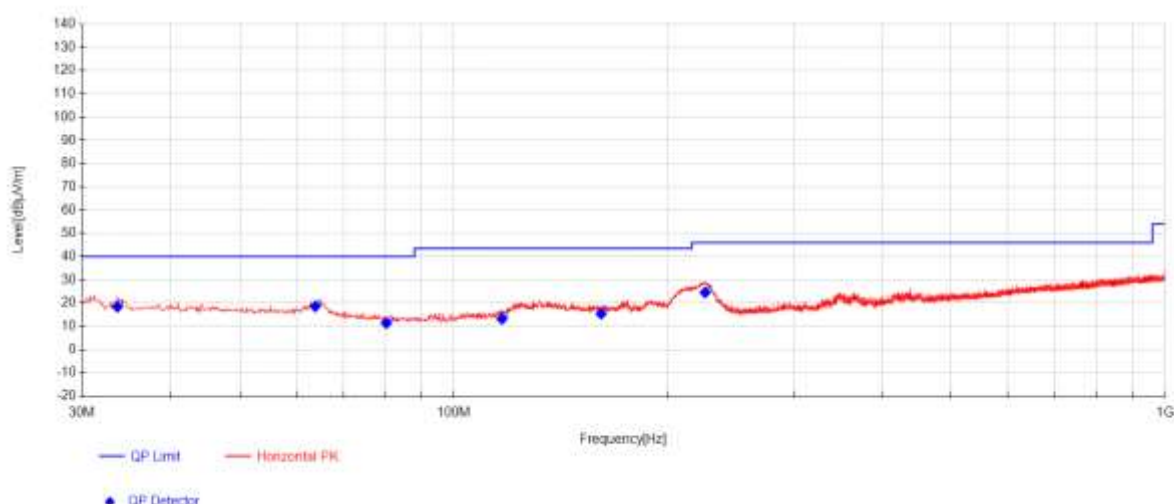
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Radiated Spurious Emissions

Radiated emission below 1GHz

BLE 1M_Channel 39



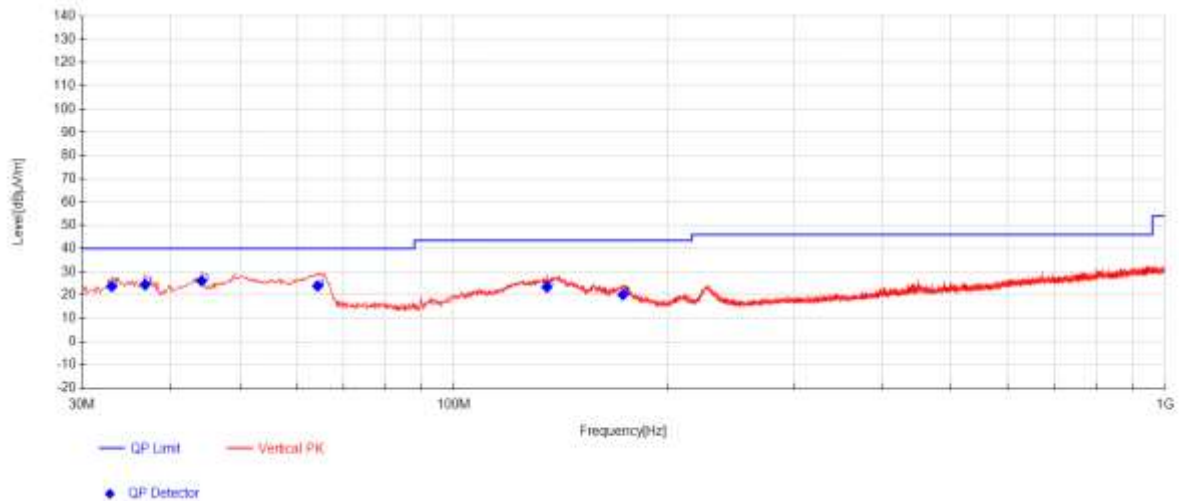
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	33.6375	34.25	-34.00	18.16	18.41	40.00	21.59	Horizontal
2	63.8288	34.86	-33.81	17.52	18.56	40.00	21.44	Horizontal
3	80.3188	30.28	-33.65	14.74	11.37	40.00	28.63	Horizontal
4	116.815	30.28	-33.36	16.30	13.22	43.50	30.28	Horizontal
5	161.0712	29.35	-33.05	19.10	15.40	43.50	28.10	Horizontal
6	225.5762	40.86	-32.55	16.23	24.54	46.00	21.46	Horizontal

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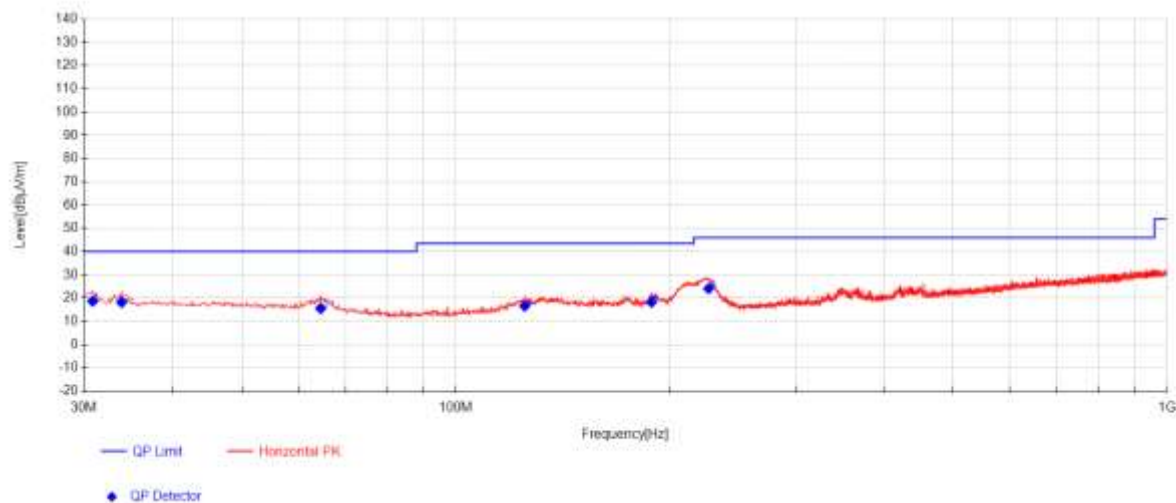
Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	33.0312	39.68	-34.01	18.10	23.78	40.00	16.22	Vertical
2	36.79	40.08	-34.00	18.46	24.54	40.00	15.46	Vertical
3	44.1862	41.34	-33.99	18.82	26.17	40.00	13.83	Vertical
4	64.3138	40.34	-33.81	17.41	23.94	40.00	16.06	Vertical
5	135.1238	38.24	-33.26	18.51	23.49	43.50	20.01	Vertical
6	172.8325	34.85	-32.92	18.27	20.19	43.50	23.31	Vertical

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BLE 2M_Channel 00

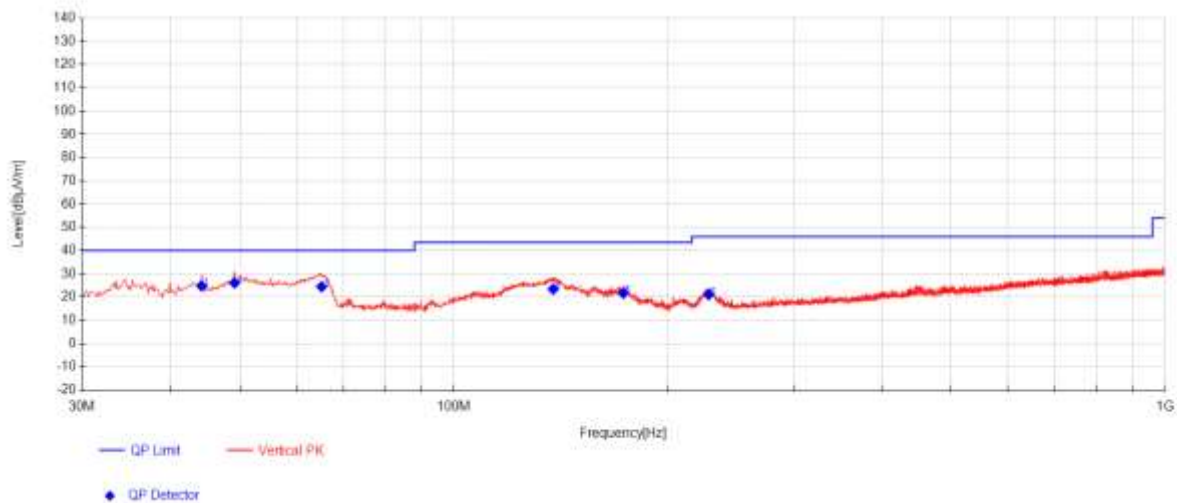


Final Data List								
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1	30.8488	34.52	-34.01	18.18	18.70	40.00	21.30	Horizontal
2	33.88	34.06	-34.00	18.19	18.24	40.00	21.76	Horizontal
3	64.5562	32.08	-33.81	17.33	15.61	40.00	24.39	Horizontal
4	124.9388	32.43	-33.32	17.50	16.61	43.50	26.89	Horizontal
5	188.3525	35.57	-32.83	15.56	18.30	43.50	25.20	Horizontal
6	226.6675	40.38	-32.54	16.30	24.14	46.00	21.86	Horizontal

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NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	44.1862	40.03	-33.99	18.82	24.86	40.00	15.14	Vertical
2	49.1575	41.32	-33.98	18.77	26.11	40.00	13.89	Vertical
3	65.1625	41.08	-33.80	17.22	24.50	40.00	15.50	Vertical
4	137.9125	38.27	-33.25	18.41	23.43	43.50	20.07	Vertical
5	173.075	36.32	-32.92	18.29	21.69	43.50	21.81	Vertical
6	228.1225	37.28	-32.54	16.39	21.13	46.00	24.87	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.

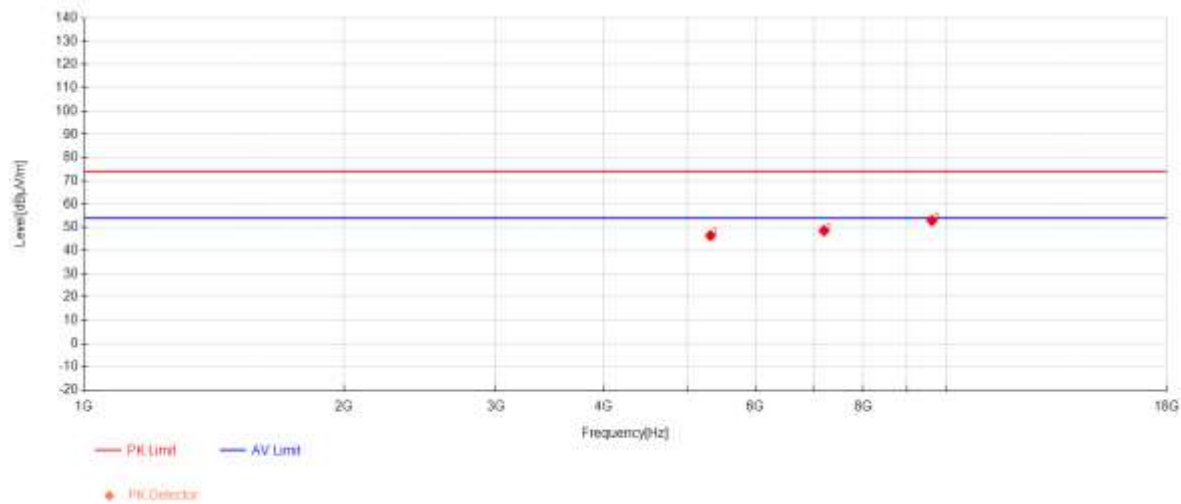
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Transmitter emission Above 1GHz

BLE 1M_Channel 00

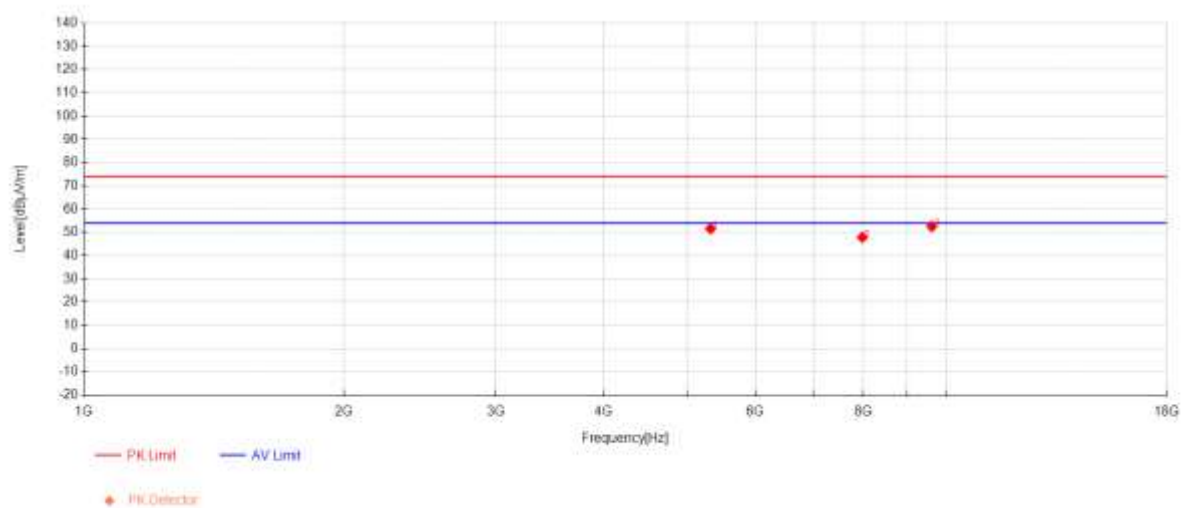


Data List								
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1	5322.5	54.22	33.14	-40.91	46.45	74.00	27.55	Horizontal
2	7205.5	50.32	36.25	-38.02	48.55	74.00	25.45	Horizontal
3	9609	48.57	37.78	-33.45	52.90	74.00	21.10	Horizontal

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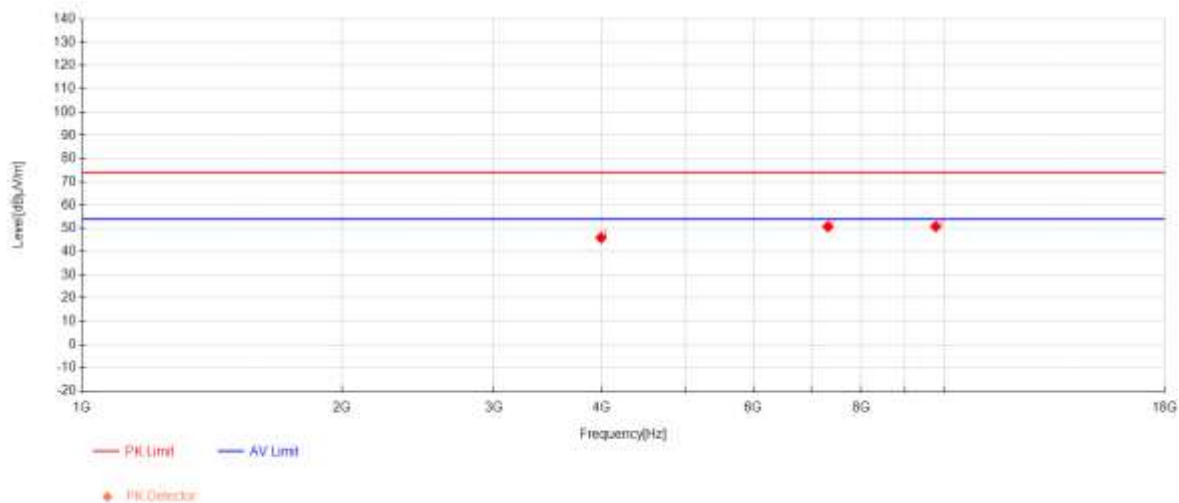
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	5323.5	59.33	33.14	-40.91	51.56	74.00	22.44	Vertical
2	7982.5	47.35	37.08	-36.56	47.87	74.00	26.13	Vertical
3	9609	48.24	37.78	-33.45	52.57	74.00	21.43	Vertical

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BLE 1M_Channel 19

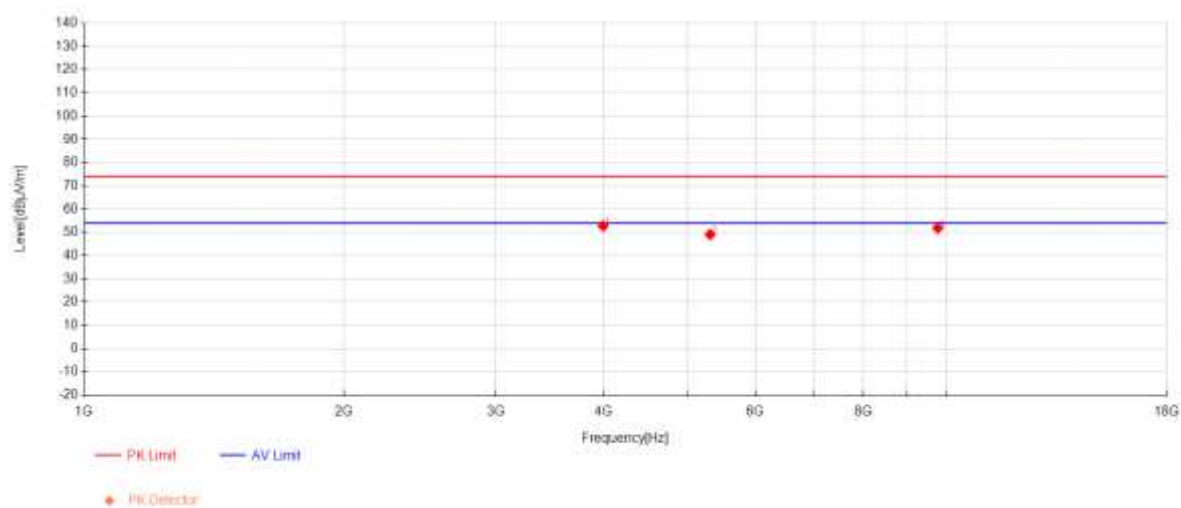


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3995.5	57.43	31.28	-42.75	45.96	74.00	28.04	Horizontal
2	7319	51.83	36.38	-37.46	50.75	74.00	23.25	Horizontal
3	9760	46.01	37.83	-33.07	50.77	74.00	23.23	Horizontal

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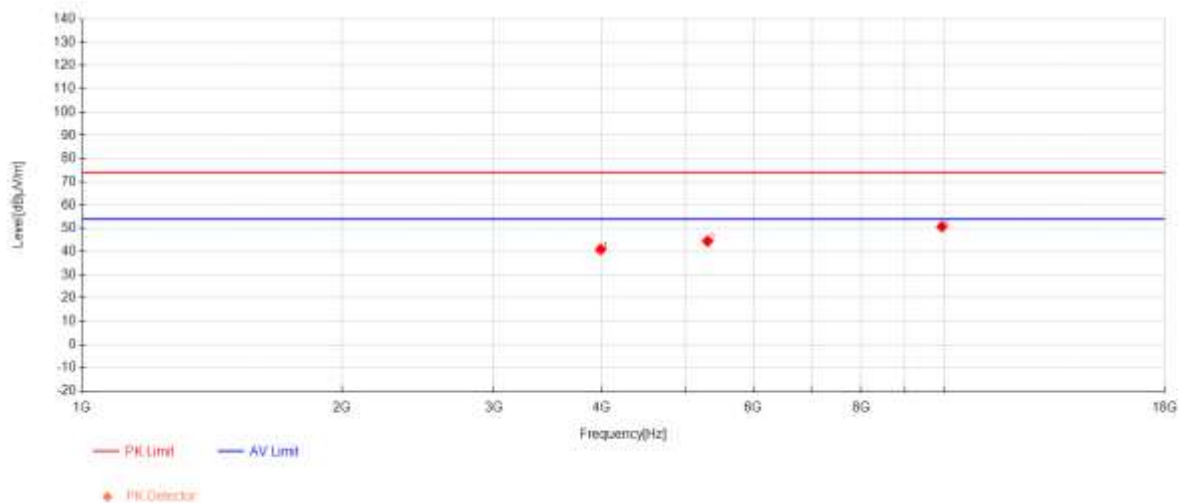
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3996	64.25	31.29	-42.75	52.78	74.00	21.22	Vertical
2	5317	56.86	33.14	-40.91	49.09	74.00	24.91	Vertical
3	9759	47.06	37.83	-33.07	51.82	74.00	22.18	Vertical

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BLE 1M_Channel 39



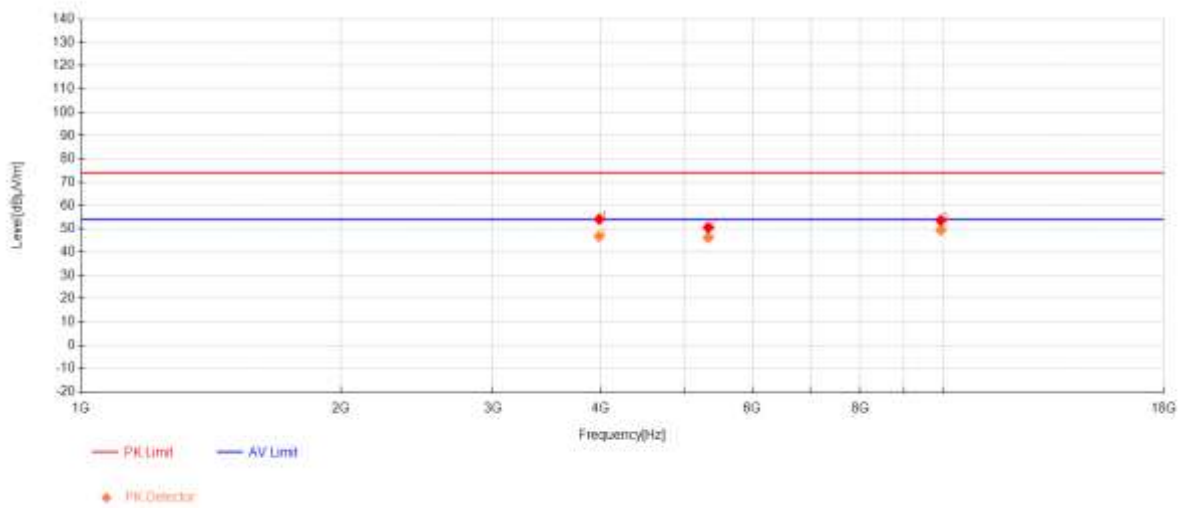
Data List								
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1	3992	52.45	31.27	-42.76	40.97	74.00	33.03	Horizontal
2	5308	52.26	33.14	-40.91	44.49	74.00	29.51	Horizontal
3	9921	45.38	37.88	-32.54	50.71	74.00	23.29	Horizontal

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Report No.: SUCR241100043802
 Rev.: 01
 Page: 68 of 90



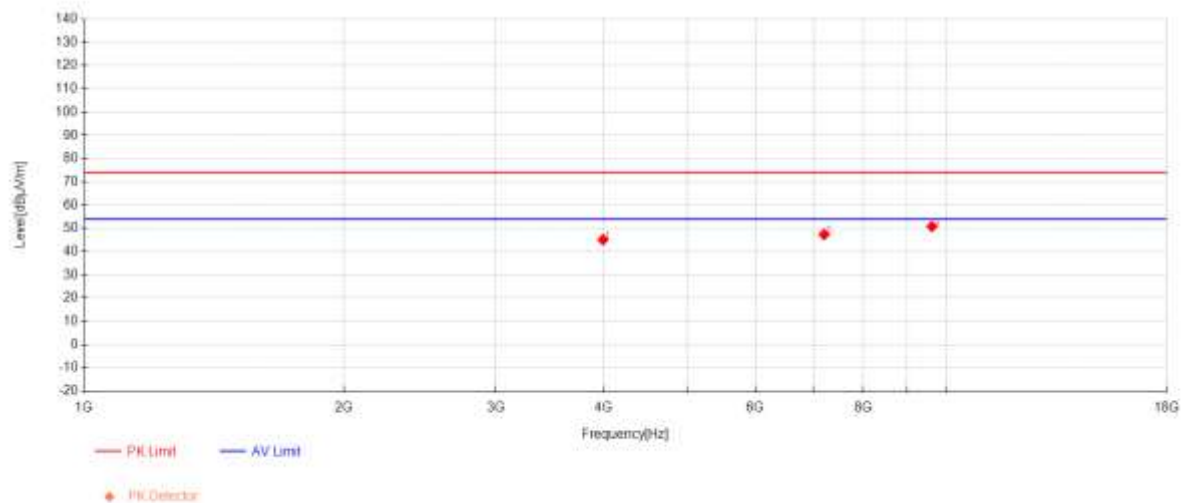
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3986.5	65.62	31.25	-42.76	54.11	74.00	19.89	Vertical
2	5332	58.34	33.13	-40.91	50.57	74.00	23.43	Vertical
3	9919	48.28	37.88	-32.55	53.61	74.00	20.39	Vertical
NO.	Frequency [MHz]	AV Reading [dBμV]	AF [dB/m]	Factor [dB]	AV Level [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	3986.5	58.35	31.25	-42.76	46.84	54.00	7.16	Vertical
2	5332	54.03	33.13	-40.91	46.26	54.00	7.74	Vertical
3	9919	44.12	37.88	-32.55	49.45	54.00	4.55	Vertical

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BLE 2M_Channel 00

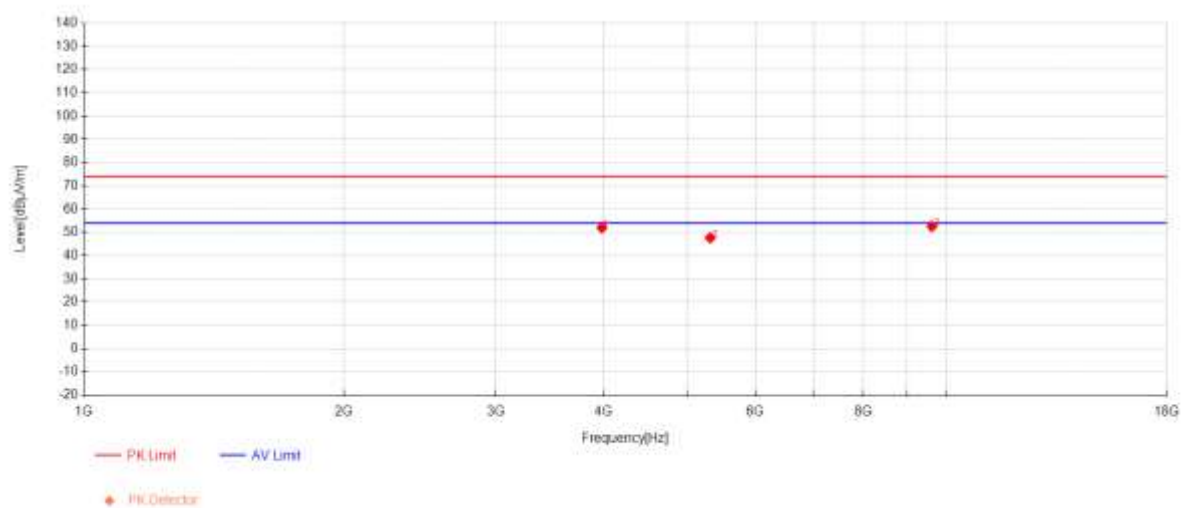


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3995	56.60	31.28	-42.75	45.13	74.00	28.87	Horizontal
2	7207.5	49.11	36.25	-38.01	47.35	74.00	26.65	Horizontal
3	9610	46.45	37.78	-33.44	50.79	74.00	23.21	Horizontal

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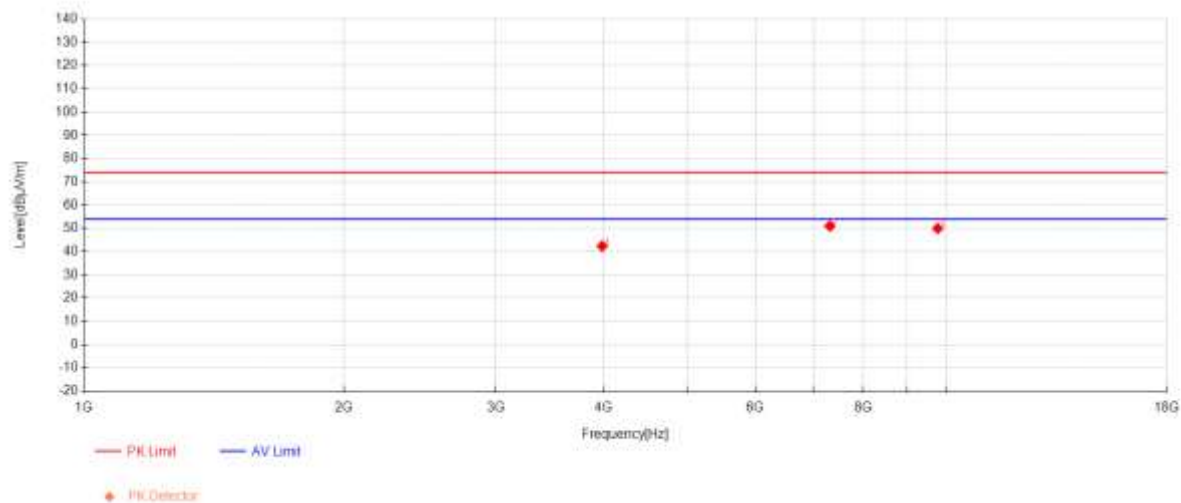
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3982.5	63.51	31.24	-42.76	51.99	74.00	22.01	Vertical
2	5319	55.46	33.14	-40.91	47.69	74.00	26.31	Vertical
3	9610	48.26	37.78	-33.44	52.60	74.00	21.40	Vertical

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BLE 2M_Channel 19

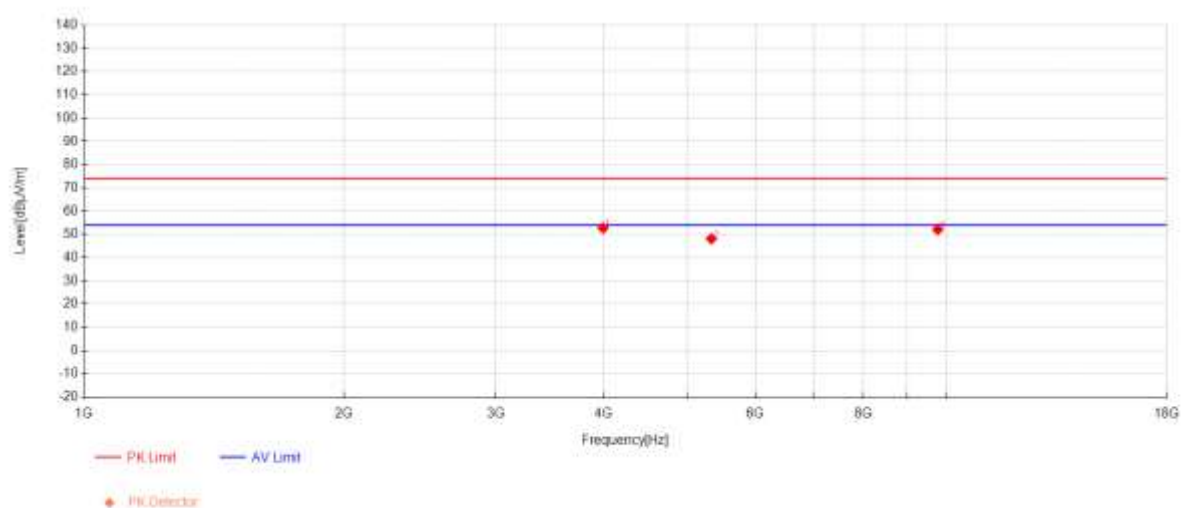


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3986	53.91	31.25	-42.76	42.40	74.00	31.60	Horizontal
2	7318.5	52.10	36.38	-37.46	51.02	74.00	22.98	Horizontal
3	9758	45.22	37.83	-33.07	49.98	74.00	24.02	Horizontal

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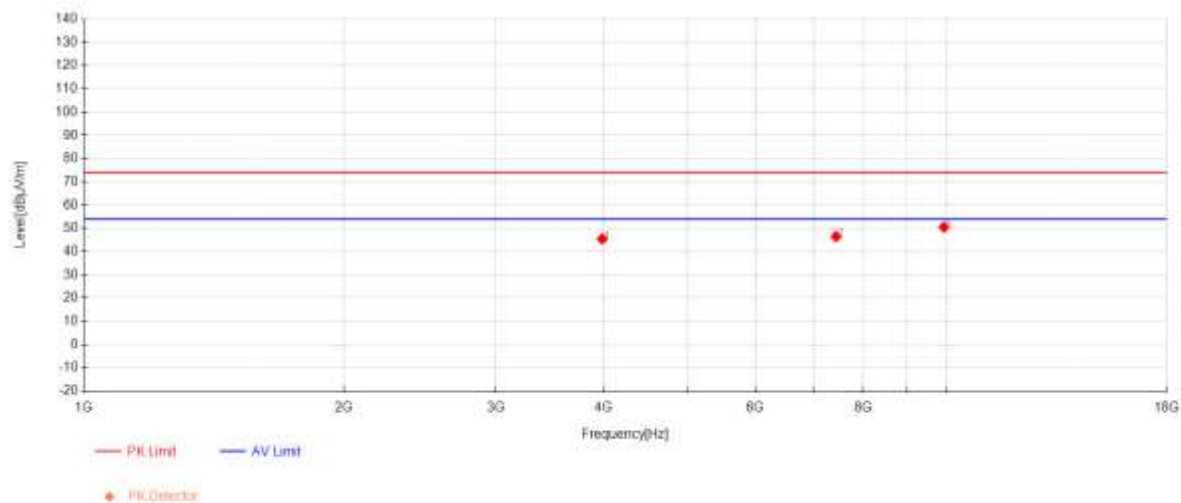
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3995.5	64.21	31.28	-42.75	52.74	74.00	21.26	Vertical
2	5333	55.86	33.13	-40.91	48.09	74.00	25.91	Vertical
3	9758	47.33	37.83	-33.07	52.09	74.00	21.91	Vertical

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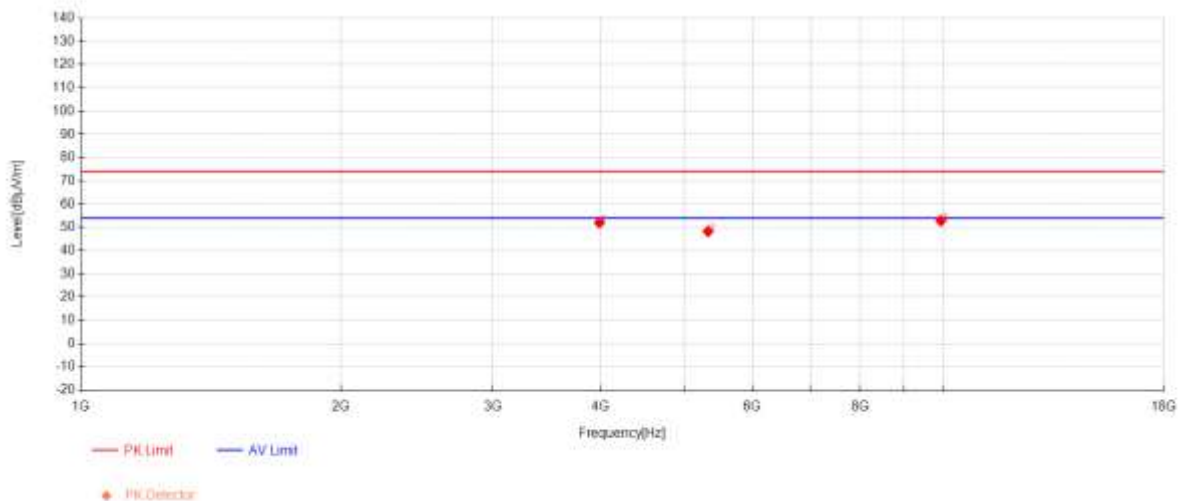


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3986.5	57.00	31.25	-42.76	45.49	74.00	28.51	Horizontal
2	7441.5	47.81	36.53	-37.84	46.50	74.00	27.50	Horizontal
3	9922	45.20	37.88	-32.54	50.53	74.00	23.47	Horizontal

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	3989	63.49	31.26	-42.76	51.99	74.00	22.01	Vertical
2	5330	56.01	33.13	-40.91	48.24	74.00	25.76	Vertical
3	9918	47.53	37.88	-32.55	52.86	74.00	21.14	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading}(\text{dB}\mu\text{V}) + \text{AF}(\text{dB}/\text{m}) + \text{Factor}(\text{dB})$$

$$\text{AF} = \text{Antenna Factor}(\text{dB}/\text{m})$$

$$\text{Factor} = \text{Cable Factor}(\text{dB}) - \text{Preamplifier gain}(\text{dB})$$

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Level}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"

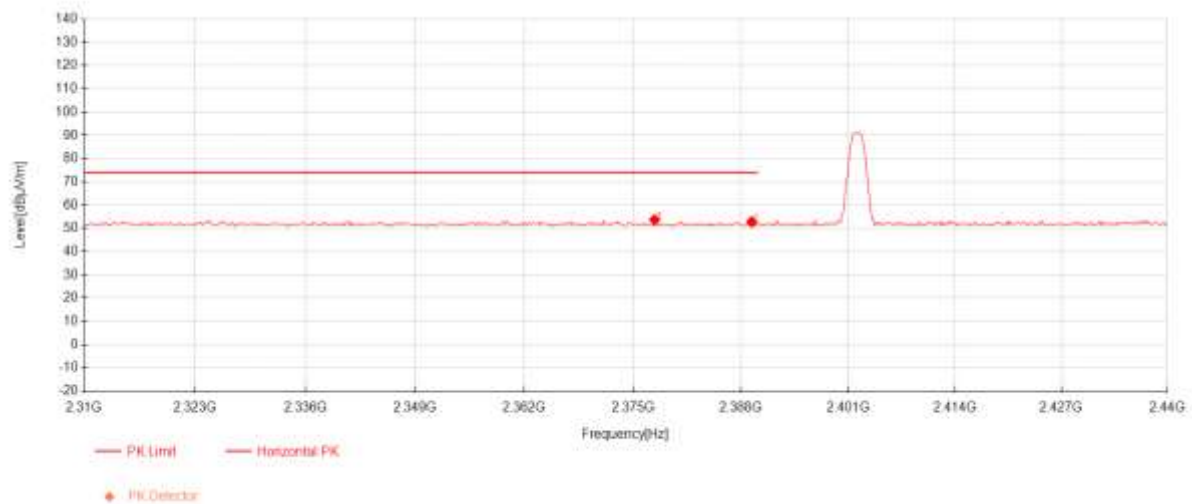
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Restricted bands around fundamental frequency

BLE 1M_Channel 00



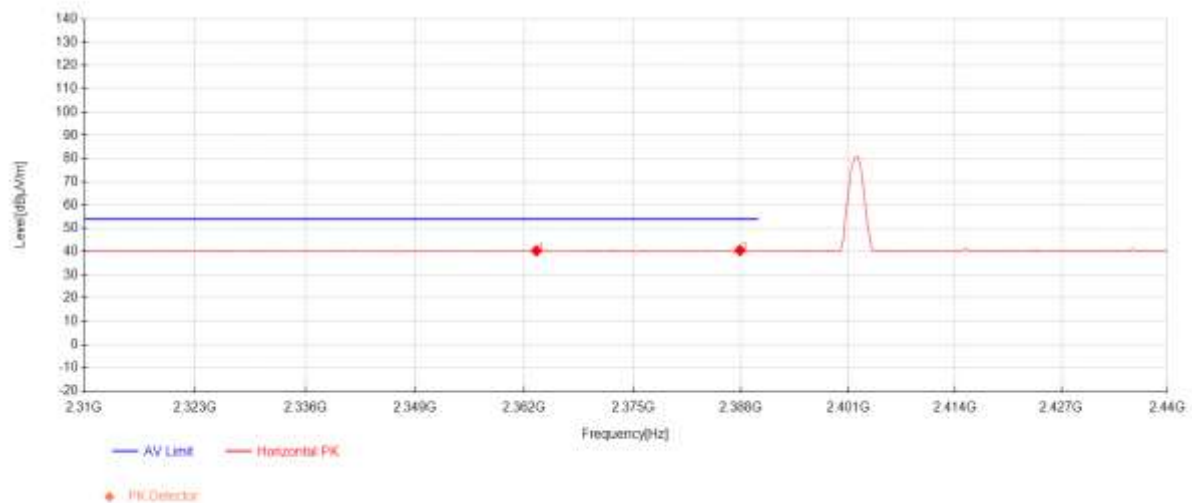
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2377.6	49.87	27.13	-23.30	53.70	74.00	20.30	Horizontal
2	2389.3	48.98	27.16	-23.31	52.82	74.00	21.18	Horizontal

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BLE 1M_Channel 00



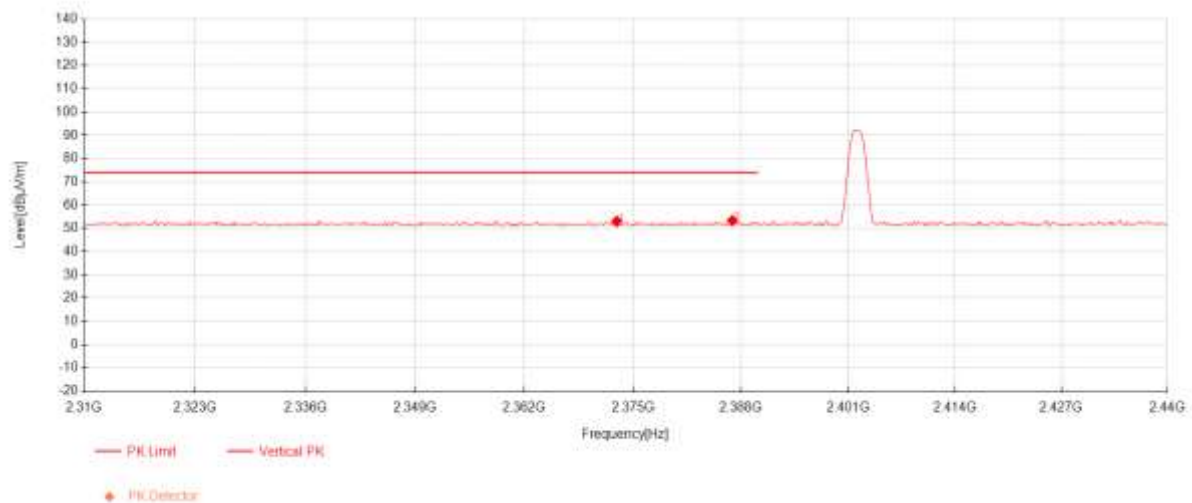
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2363.43	36.53	27.10	-23.29	40.34	54.00	13.66	Horizontal
2	2387.87	36.67	27.15	-23.31	40.51	54.00	13.49	Horizontal

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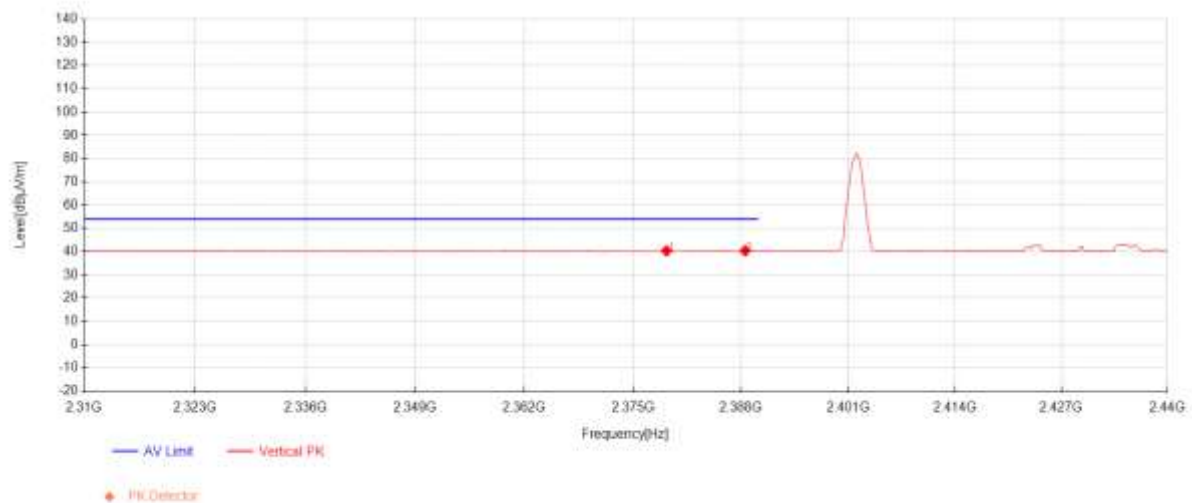
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2373.05	49.18	27.12	-23.30	53.00	74.00	21.00	Vertical
2	2386.96	49.50	27.15	-23.31	53.34	74.00	20.66	Vertical

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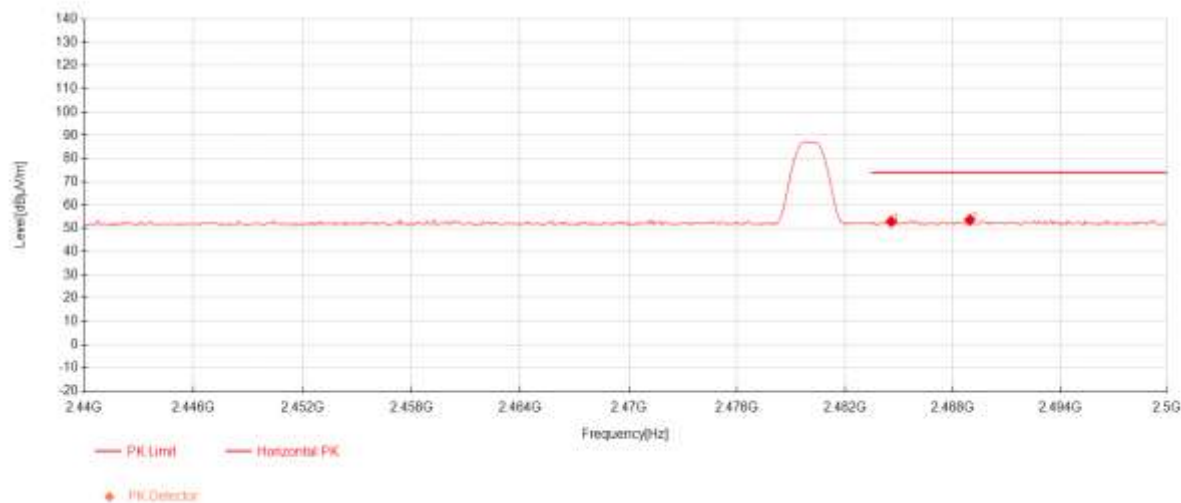
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2379.03	36.47	27.13	-23.31	40.30	54.00	13.70	Vertical
2	2388.52	36.56	27.15	-23.31	40.40	54.00	13.60	Vertical

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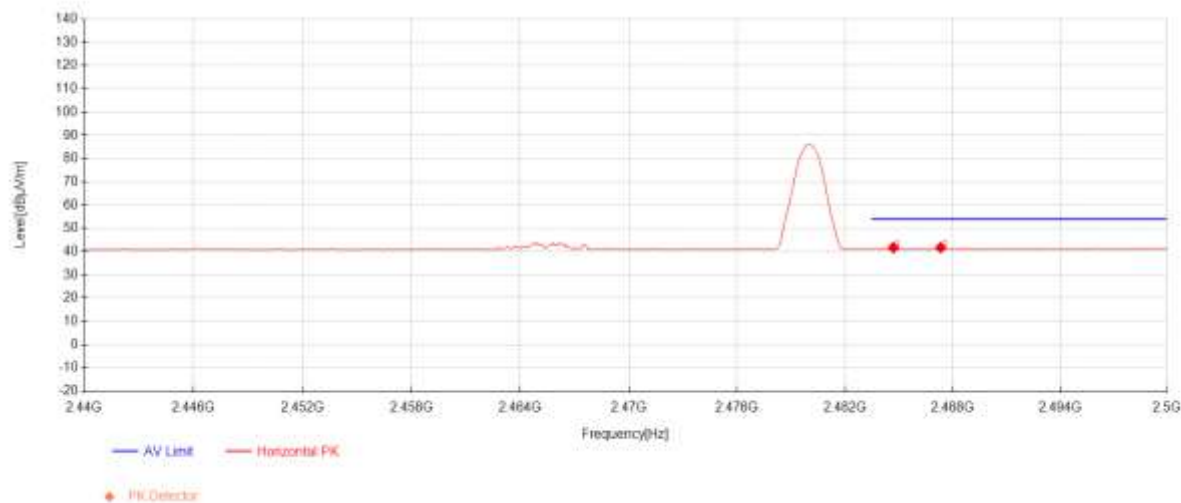
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.58	48.84	27.37	-23.27	52.94	74.00	21.06	Horizontal
2	2488.96	49.55	27.38	-23.27	53.66	74.00	20.34	Horizontal

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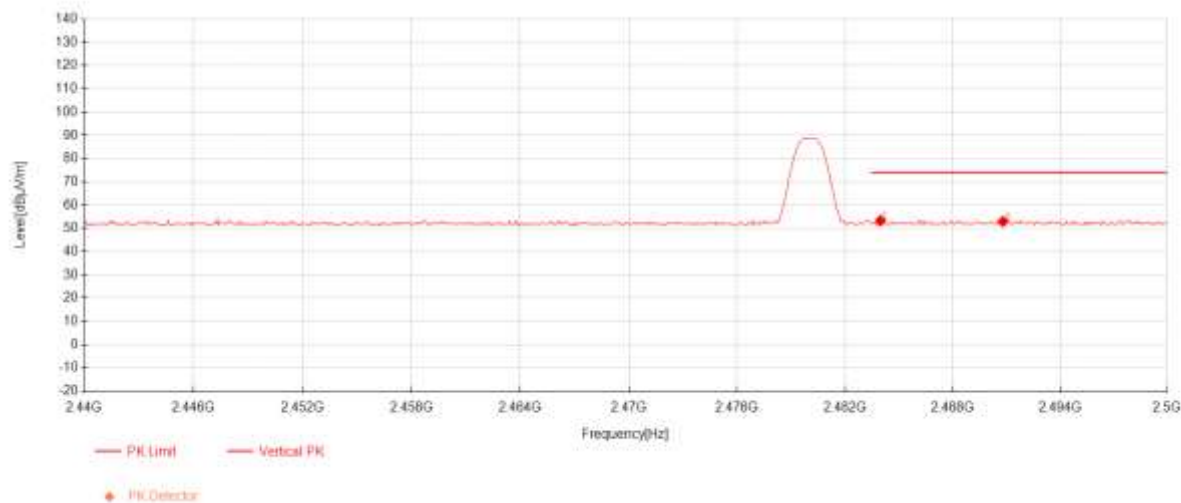
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.7	37.63	27.37	-23.27	41.73	54.00	12.27	Horizontal
2	2487.34	37.63	27.37	-23.27	41.73	54.00	12.27	Horizontal

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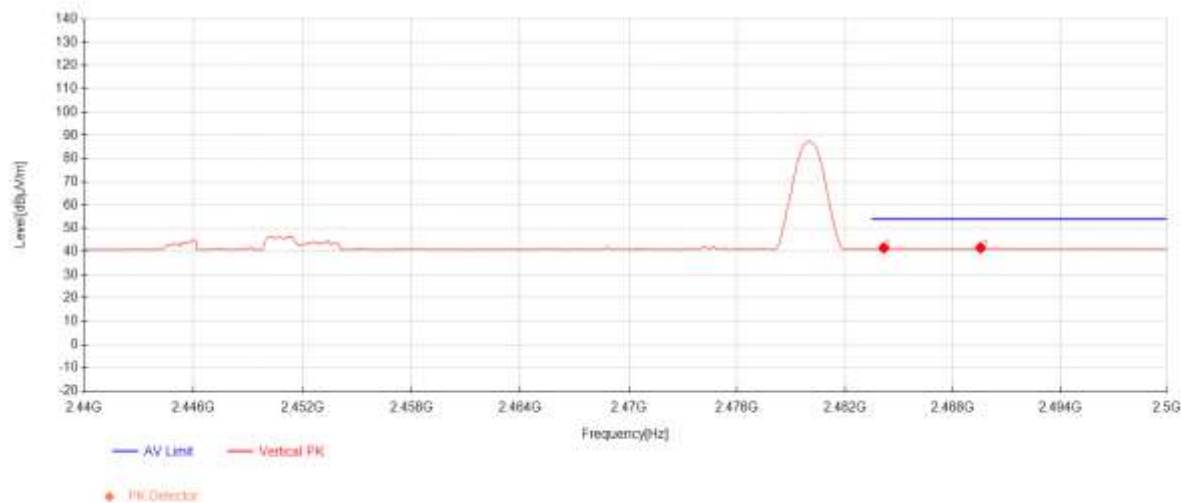
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.98	49.25	27.36	-23.27	53.35	74.00	20.65	Vertical
2	2490.82	48.87	27.38	-23.27	52.98	74.00	21.02	Vertical

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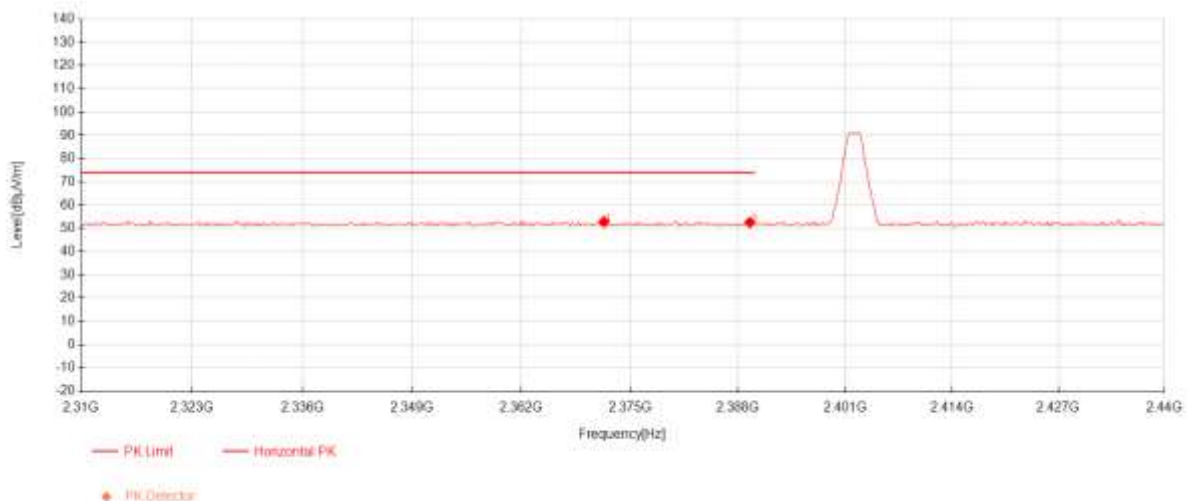
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.16	37.49	27.37	-23.27	41.59	54.00	12.41	Vertical
2	2489.56	37.54	27.38	-23.27	41.65	54.00	12.35	Vertical

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BLE 2M_Channel 00



Data List

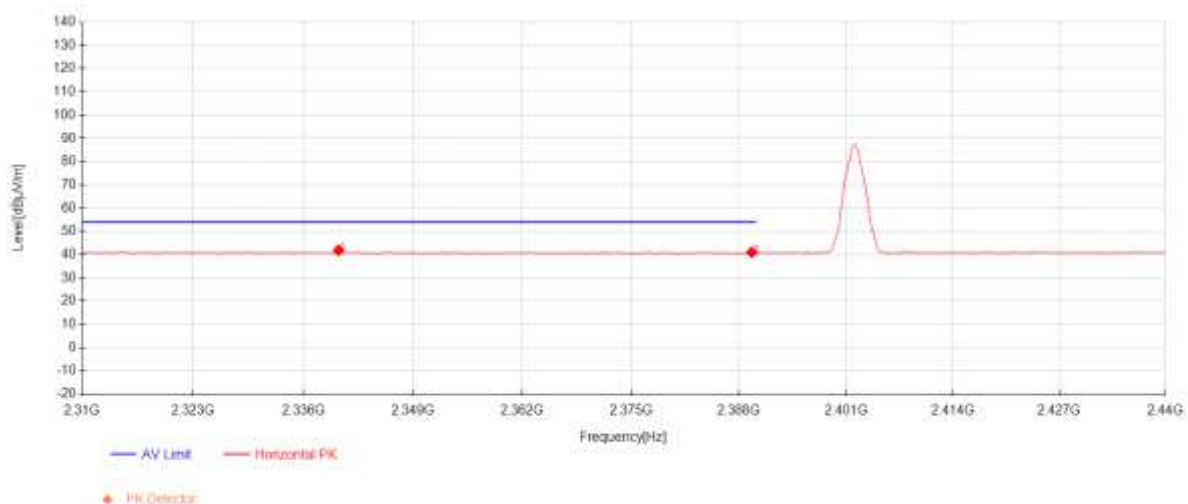
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2371.88	49.03	27.12	-23.30	52.85	74.00	21.15	Horizontal
2	2389.43	48.76	27.16	-23.31	52.60	74.00	21.40	Horizontal

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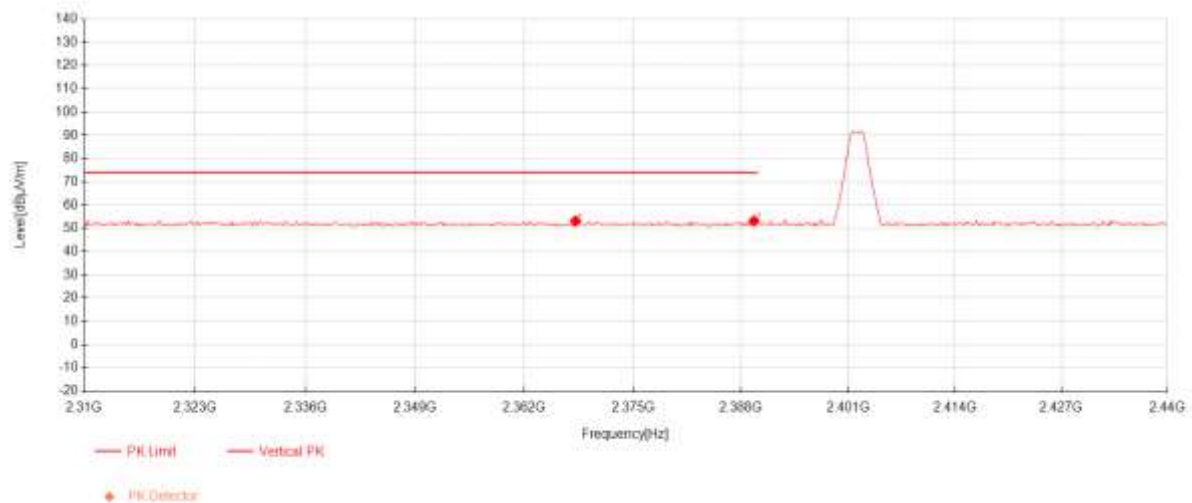
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1	2340.16	38.09	27.05	-23.28	41.86	54.00	12.14	Horizontal
2	2389.56	37.16	27.16	-23.31	41.00	54.00	13.00	Horizontal

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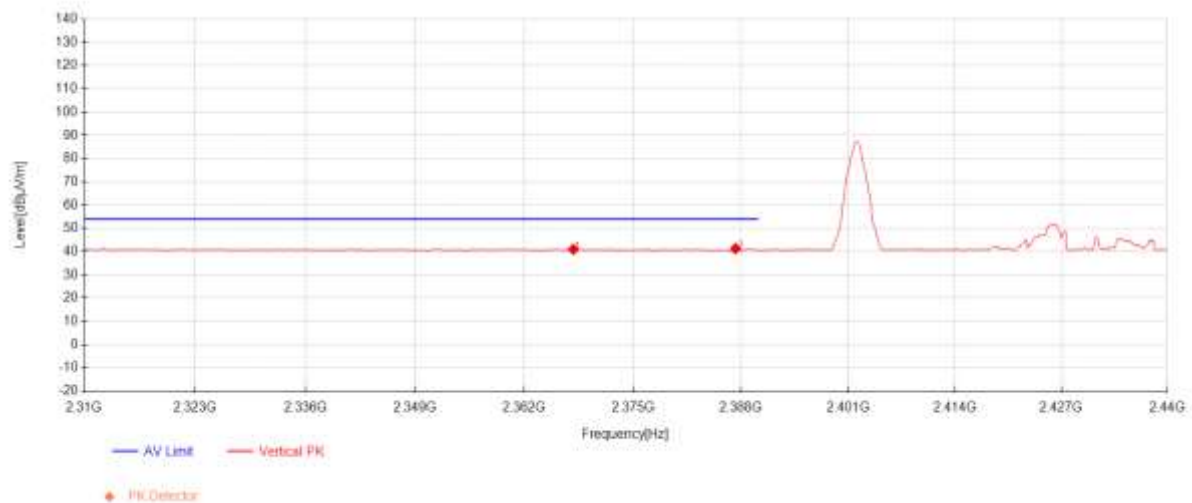
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2368.11	49.37	27.11	-23.30	53.18	74.00	20.82	Vertical
2	2389.56	49.35	27.16	-23.31	53.19	74.00	20.81	Vertical

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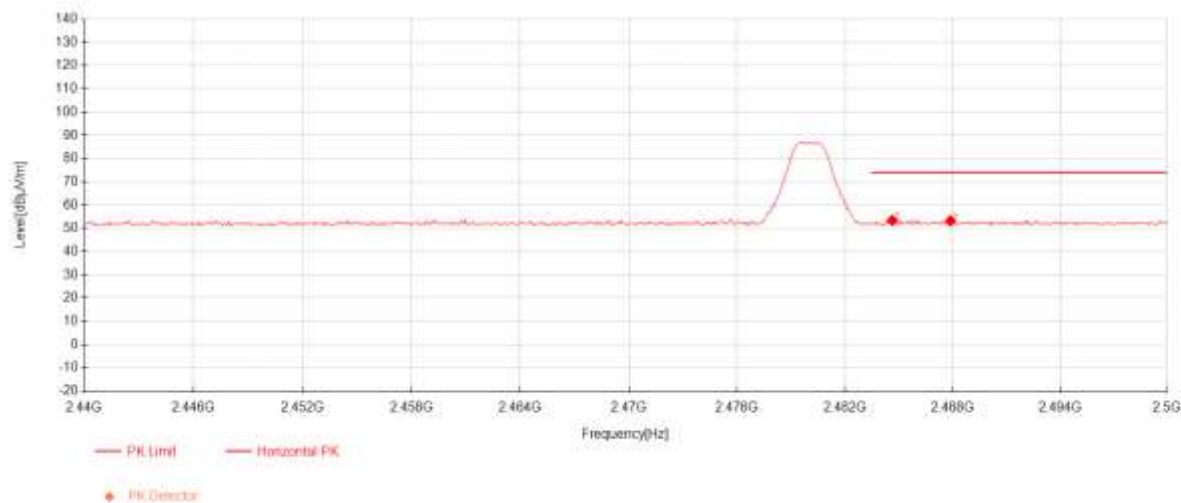
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2367.85	37.17	27.11	-23.30	40.98	54.00	13.02	Vertical
2	2387.35	37.45	27.15	-23.31	41.29	54.00	12.71	Vertical

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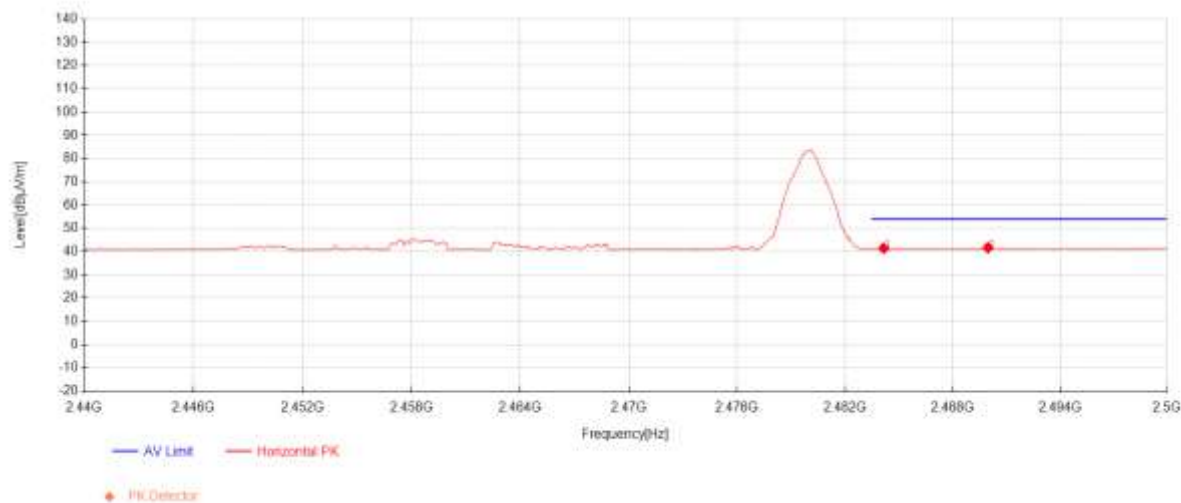
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.64	49.32	27.37	-23.27	53.42	74.00	20.58	Horizontal
2	2487.88	49.16	27.37	-23.27	53.27	74.00	20.73	Horizontal

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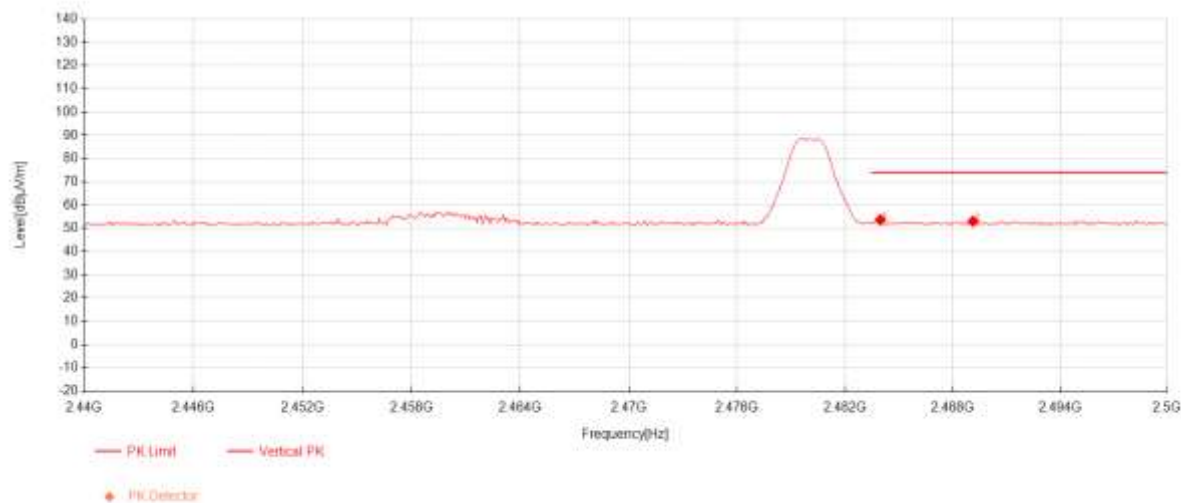
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.16	37.34	27.37	-23.27	41.44	54.00	12.56	Horizontal
2	2489.98	37.60	27.38	-23.27	41.71	54.00	12.29	Horizontal

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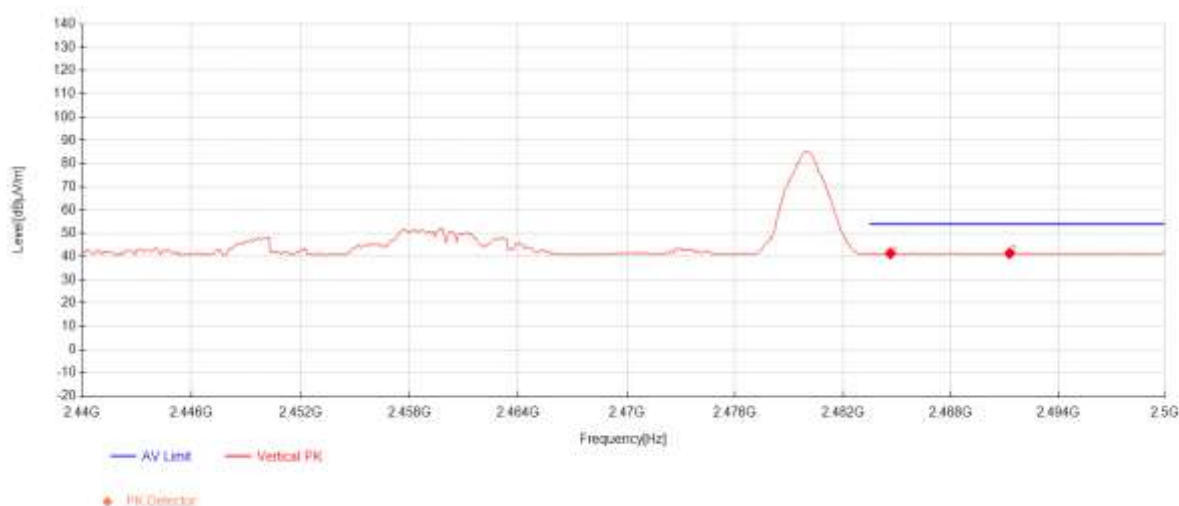
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.98	49.53	27.36	-23.27	53.63	74.00	20.37	Vertical
2	2489.14	48.96	27.38	-23.27	53.07	74.00	20.93	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.64	37.27	27.37	-23.27	41.37	54.00	12.63	Vertical
2	2491.3	37.28	27.38	-23.27	41.40	54.00	12.60	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Level(dBμV/m)

- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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