



FCC RADIO TEST REPORT

FCC ID : 2BNGI-KWS83
Equipment : Tusk Frequunce Intercom
Brand Name : Tusk
Model Name : 2138470001
Applicant : Rocky Mountain ATV/MC
1551 American Way, Payson, UT 84651
Manufacturer : Rocky Mountain ATV/MC
1551 American Way, Payson, UT 84651
Standard : FCC Part 15 Subpart C §15.247

The product was received on Dec. 23, 2024 and testing was performed from Sep. 27, 2024 to Mar. 24, 2025. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sportun International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description.....	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	5
2 Test Configuration of Equipment Under Test.....	6
2.1 Carrier Frequency Channel	6
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System	8
2.4 Support Unit used in test configuration and system	8
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	9
3 Test Result.....	10
3.1 Number of Channel Measurement	10
3.2 Hopping Channel Separation Measurement	11
3.3 Dwell Time Measurement	12
3.4 20dB and 99% Bandwidth Measurement	13
3.5 Output Power Measurement.....	14
3.6 Conducted Band Edges Measurement.....	15
3.7 Conducted Spurious Emission Measurement	16
3.8 Radiated Band Edges and Spurious Emission Measurement	17
3.9 AC Conducted Emission Measurement.....	21
3.10 Antenna Requirements	23
4 List of Measuring Equipment	24
5 Measurement Uncertainty	25
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission Test Data	
Appendix D. Duty Cycle Plots	
Appendix E. Setup Photographs	



History of this test report



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(1)	Number of Channels	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	Pass	-
3.4	2.1049	99% Occupied Bandwidth	Pass	-
3.5	15.247(b)(1) 15.247(b)(4)	Peak Output Power	Pass	-
3.6	15.247(d)	Conducted Band Edges	Pass	-
3.7	15.247(d)	Conducted Spurious Emission	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
3.9	15.207	AC Conducted Emission	Pass	-
3.10	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs Bluetooth	
Antenna Type Bluetooth: Monopole Antenna	
Antenna information	
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi) -1.72

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sporton Site No. TH01-CA, CO01-CA, 03CH02-CA

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

FCC Designation No.: US1250

1.4 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- ANSI C63.10-2020

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-



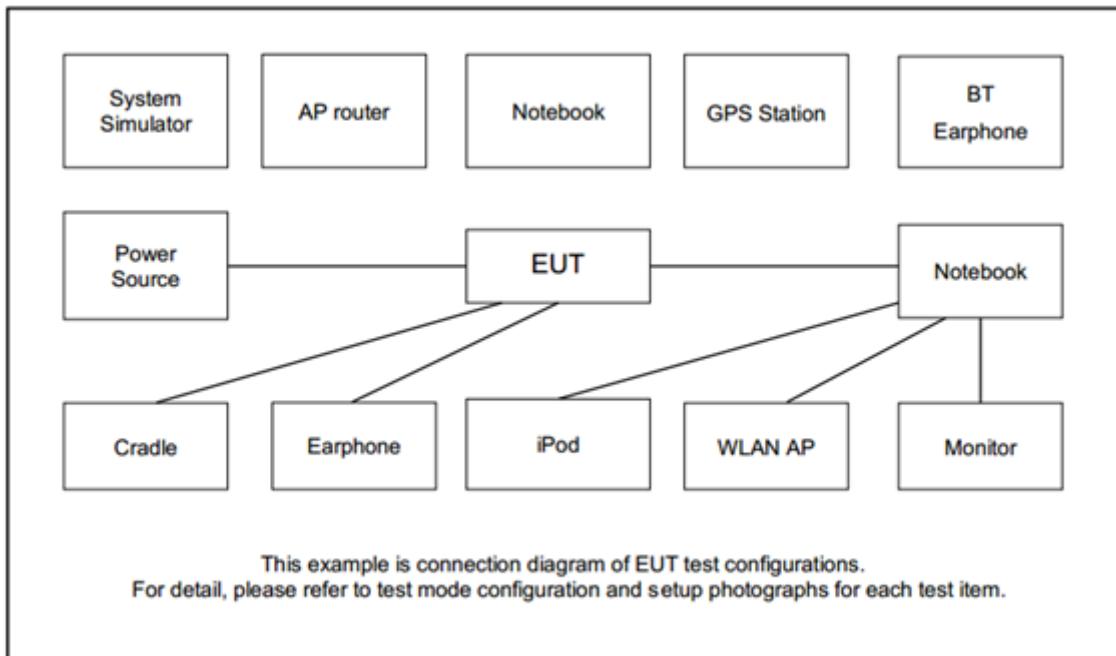
2.2 Test Mode

- 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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst plane, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

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	
Conducted Test Cases	Bluetooth BR 1Mbps GFSK	Bluetooth EDR 2Mbps $\pi/4$ -DQPSK
	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz
AC Conducted Emission	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz
	Mode 1 :Bluetooth TX	
	Mode 2 :Bluetooth-LE TX	
Remark:		
1. For Radiated Test Cases, the worst mode data rate 1Mbps was reported only since the highest RF output power in the preliminary tests. The conducted spurious emissions and conducted band edge measurement for other data rates were not worse than 1Mbps, and no other significantly frequencies found in conducted spurious emission.		
2. The detailed Radiated test modes are shown in Appendix C.		

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	ASUS	ASUS EXPERTBOOK B1402CVA_B1408CVA	PD9AX211NG	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
2.	Notebook	Dell	Latitude 3400	PD9AX211NG	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
3.	Adapter	Google	G1000-US`	N/A	FPS0D8AK02A3AM LPS	N/A
4.	ESP-PROG Dongle	Espressif System	N/A	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term Version 4.95” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

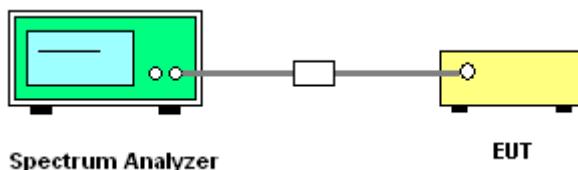
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 7.8.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW = 300 kHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. The number of hopping frequency used is defined as the number of total channel.
7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

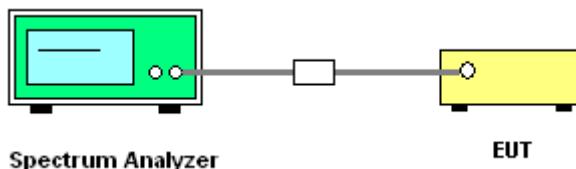
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.2.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels;
RBW = 300 kHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

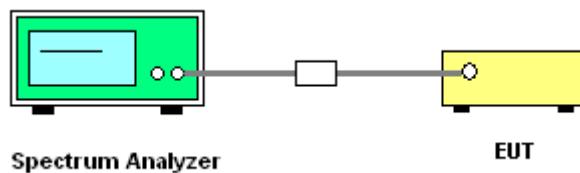
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.4.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Enable the EUT hopping function.
5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

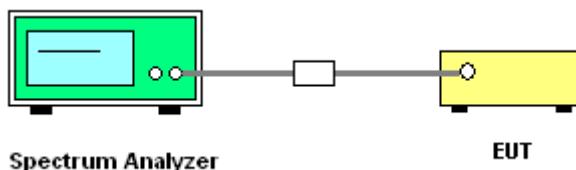
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 6.9.2 and 6.9.3.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Use the following spectrum analyzer settings for 20 dB Bandwidth measurement.
Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;
RBW \geq 1% of the 20 dB bandwidth; VBW \geq RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;
RBW \geq 1-5% of the 99% bandwidth; VBW \geq 3 * RBW; Sweep = auto; Detector function = peak;
Trace = max hold.
6. Measure and record the results in the test report.

3.4.4 Test Setup



3.4.5 Test Result of 20dB Bandwidth

Please refer to Appendix A.

3.4.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.5 Output Power Measurement

3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following:

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

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

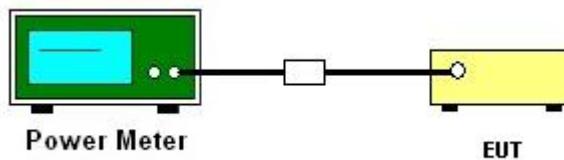
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.5.
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Measure the conducted output power with cable loss and record the results in the test report.
5. Measure and record the results in the test report.

3.5.4 Test Setup



3.5.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.5.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

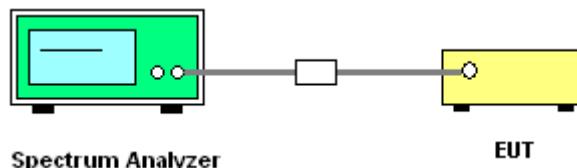
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 7.8.6.
2. Set the maximum power setting and enable the EUT to transmit continuously.
3. Set RBW = 100 kHz, VBW = 300 kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
4. Enable hopping function of the EUT and then repeat step 2 and 3.
5. Measure and record the results in the test report.

3.6.4 Test Setup



3.6.5 Test Result of Conducted Band Edges

Please refer to Appendix A.

3.6.6 Test Result of Conducted Hopping Mode Band Edges

Please refer to Appendix A.

3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

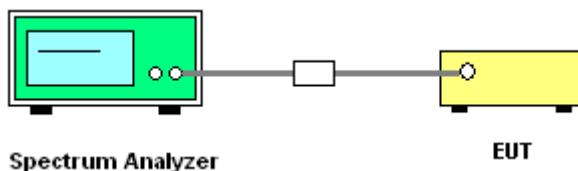
3.7.2 Measuring Instruments

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

3.7.3 Test Procedure

1. The testing follows ANSI C63.10-2020 clause 7.8.8.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, scan up through 10th harmonic. All harmonics / spurious must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.4 Test Setup



3.7.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A.



3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics / spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.8.2 Measuring Instruments

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



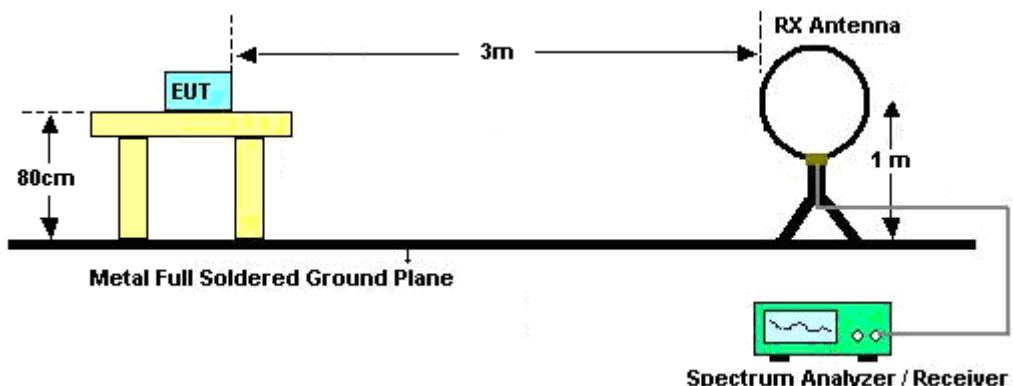
3.8.3 Test Procedures

1. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
3. For each suspected emission, the EUT is arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz, RBW = 1 MHz for $f > 1$ GHz ; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
On time = $N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log_{10}$ (Duty cycle)
6. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
7. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
8. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

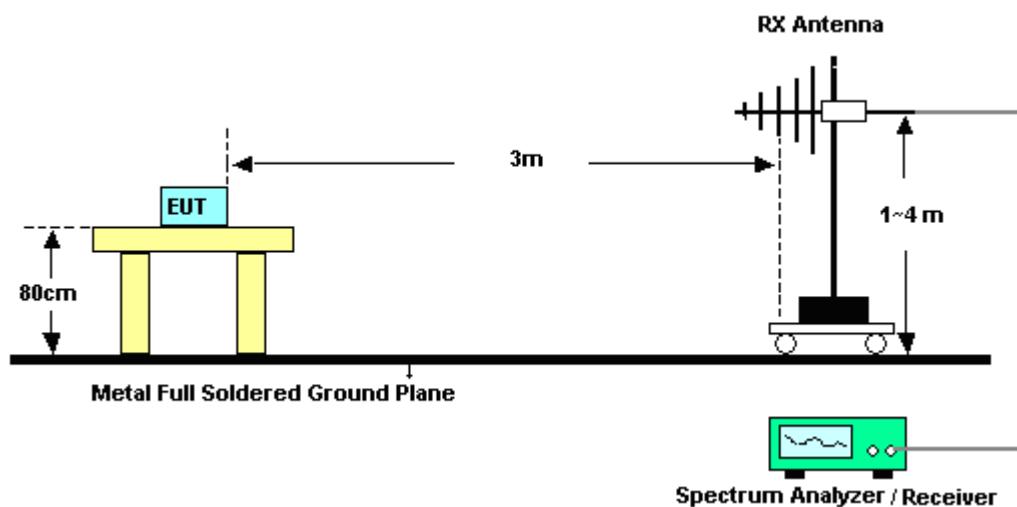
Note: The average levels are calculated from the peak level corrected with duty cycle correction factor (-42.50dB for 1Mbps and -42.16dB for 2Mbps) derived from $20 \cdot \log_{10}$ (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

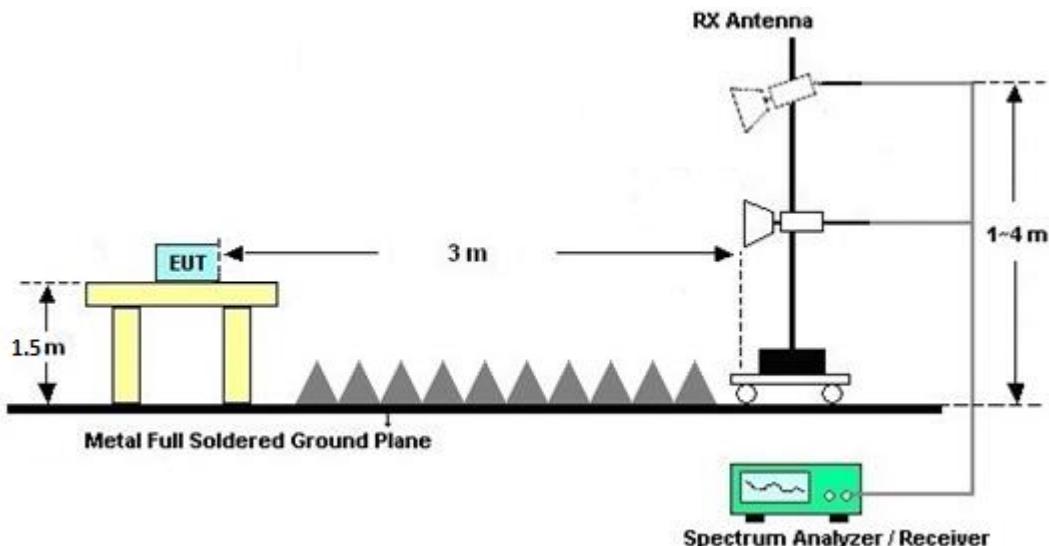
For radiated test below 30MHz



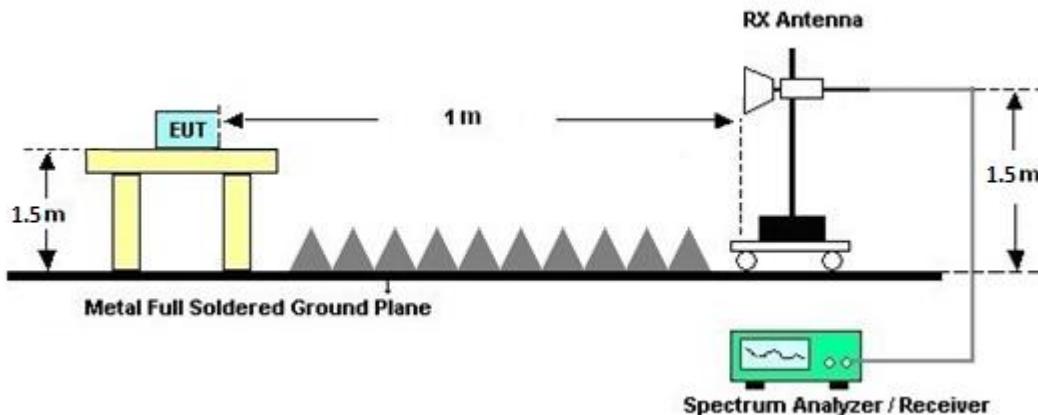
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.8.7 Duty Cycle

Please refer to Appendix D.

3.8.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.



3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

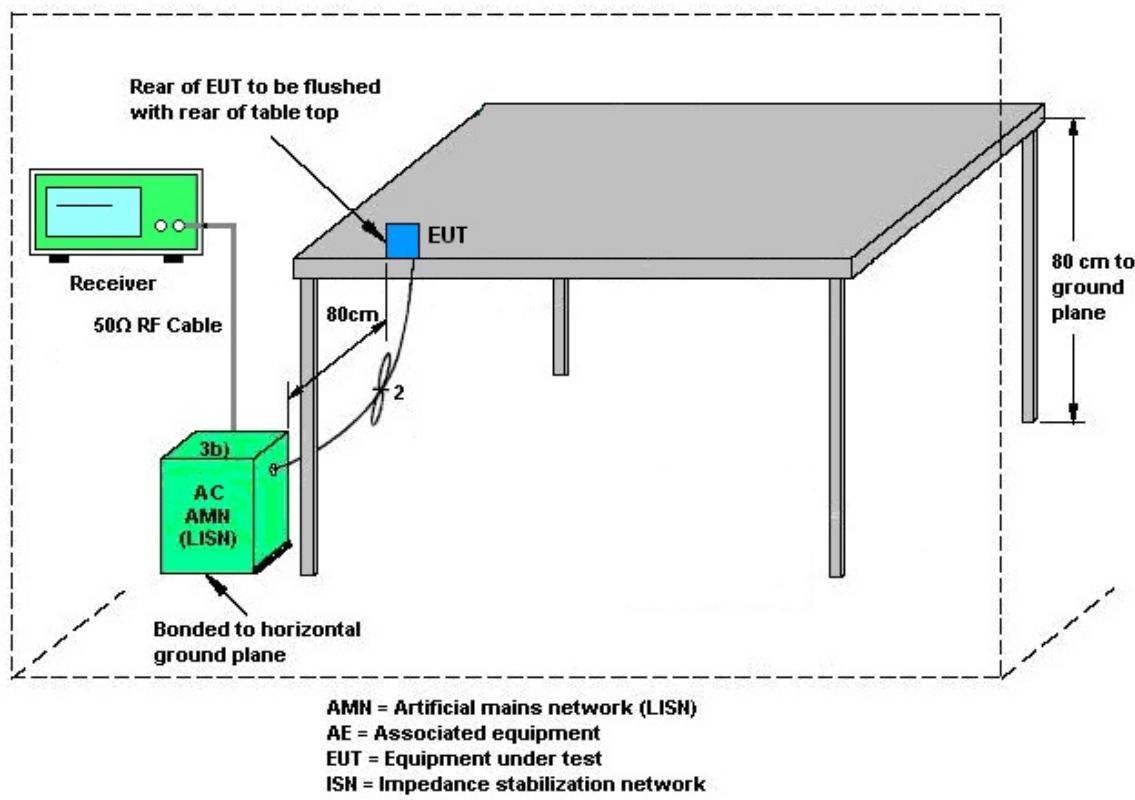
3.9.2 Measuring Instruments

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

3.9.3 Test Procedures

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

3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.10 Antenna Requirements

3.10.1 Standard Applicable

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

3.10.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	6111D	50391	30MHz~1GHz	Aug. 07, 2024	Jan. 03, 2025~Jan. 14, 2025	Nov. 06, 2025	Radiation (03CH02-CA)
Loop Antenna	R&S	HFH2-Z2E	100840	9kHz~30MHz	May 02, 2024	Jan. 03, 2025~Jan. 14, 2025	May 01, 2025	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBECK	BBHA 9120D	02140	1GHz~18GHz	Jan. 29, 2024	Jan. 03, 2025~Jan. 14, 2025	Jan. 28, 2025	Radiation (03CH02-CA)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00841	18GHz~40GHz	Aug. 07, 2024	Jan. 03, 2025~Jan. 14, 2025	Aug. 06, 2025	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	9kHz~1GHz	Apr. 24, 2024	Jan. 03, 2025~Jan. 14, 2025	Apr. 23, 2025	Radiation (03CH02-CA)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN9	3GHz High Pass Filter	Jun. 04, 2024	Jan. 03, 2025~Jan. 14, 2025	Jun. 03, 2025	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200-1272-11000-40SS	SN1	1.2GHz Low Pass Filter	Jun. 04, 2024	Jan. 03, 2025~Jan. 14, 2025	Jun. 03, 2025	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270321	1GHz~26.5GHz	Apr. 25, 2024	Jan. 03, 2025~Jan. 14, 2025	Apr. 24, 2025	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M-18G-56-01-A70	EC1900251	1GHz~18GHz	Apr. 24, 2024	Jan. 03, 2025~Jan. 14, 2025	Apr. 23, 2025	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060726	18G-40G	Apr. 04, 2024	Jan. 03, 2025~Jan. 14, 2025	Apr. 03, 2025	Radiation (03CH02-CA)
RF Cable	HUBER+SUHNER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Oct. 10, 2024	Jan. 03, 2025~Jan. 14, 2025	Oct. 09, 2025	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 14, 2024	Jan. 03, 2025~Jan. 14, 2025	Aug. 13, 2025	Radiation (03CH02-CA)
Controller	Chaintek	EM-1000	060876	Control Turn Table & Antenna Mast	N/A	Jan. 03, 2025~Jan. 14, 2025	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jan. 03, 2025~Jan. 14, 2025	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jan. 03, 2025~Jan. 14, 2025	N/A	Radiation (03CH02-CA)
Test Software	Audix E3	E3	N/A	N/A	N/A	Jan. 03, 2025~Jan. 14, 2025	N/A	Radiation (03CH02-CA)
Hygrometer	Testo	608-H1	45141354	N/A	Aug. 14, 2024	Jan. 03, 2025~Feb. 27, 2025	Aug. 13, 2025	Conducted (TH01-CA)
Power Sensor	DARE!!	RPR3006W	RPR6W-1901027	10MHz-8GHz	Apr. 24, 2024	Jan. 03, 2025~Feb. 27, 2025	Apr. 23, 2025	Conducted (TH01-CA)
Spectrum analyzer	Rhodes & Schwarz	FSV40	101089	10Hz~40GHz	Apr. 24, 2024	Jan. 03, 2025~Feb. 27, 2025	Apr. 23, 2025	Conducted (TH01-CA)
Switch Box	EM Electronics	EMSW26	1090304	N/A	Oct. 04, 2024	Jan. 03, 2025~Feb. 27, 2025	Oct. 03, 2025	Conducted (TH01-CA)
LISN	TESEQ	NNB51	47415	N/A	Aug. 14, 2024	Mar. 24, 2025	Aug. 13, 2025	Conduction (CO01-CA)
LISN	TESEQ	NNB51	47407	N/A	Apr. 23, 2024	Mar. 24, 2025	Apr. 22, 2025	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9kHz~7GHz	Apr. 23, 2024	Mar. 24, 2025	Apr. 22, 2025	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-FN	9561-F-N00412	N/A	Jun. 04, 2024	Mar. 24, 2025	Jun. 03, 2025	Conduction (CO01-CA)
LISN Cable	HUBER+SUHNER	RG-214/U	LISN cable -01	N/A	Jun. 04, 2024	Mar. 24, 2025	Jun. 03, 2025	Conduction (CO01-CA)
Test Software	R&S	EMC32 V10.30.0	N/A	N/A	N/A	Mar. 24, 2025	N/A	Conduction (CO01-CA)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	3.9 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	5.0 dB
---	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	5.4 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2U _c (y))	4.5 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Jesse Fan and Rebecca Li	Temperature:	17.1~24.9	°C
Test Date:	2025/01/03~2025/02/27	Relative Humidity:	27.2~65.3	%

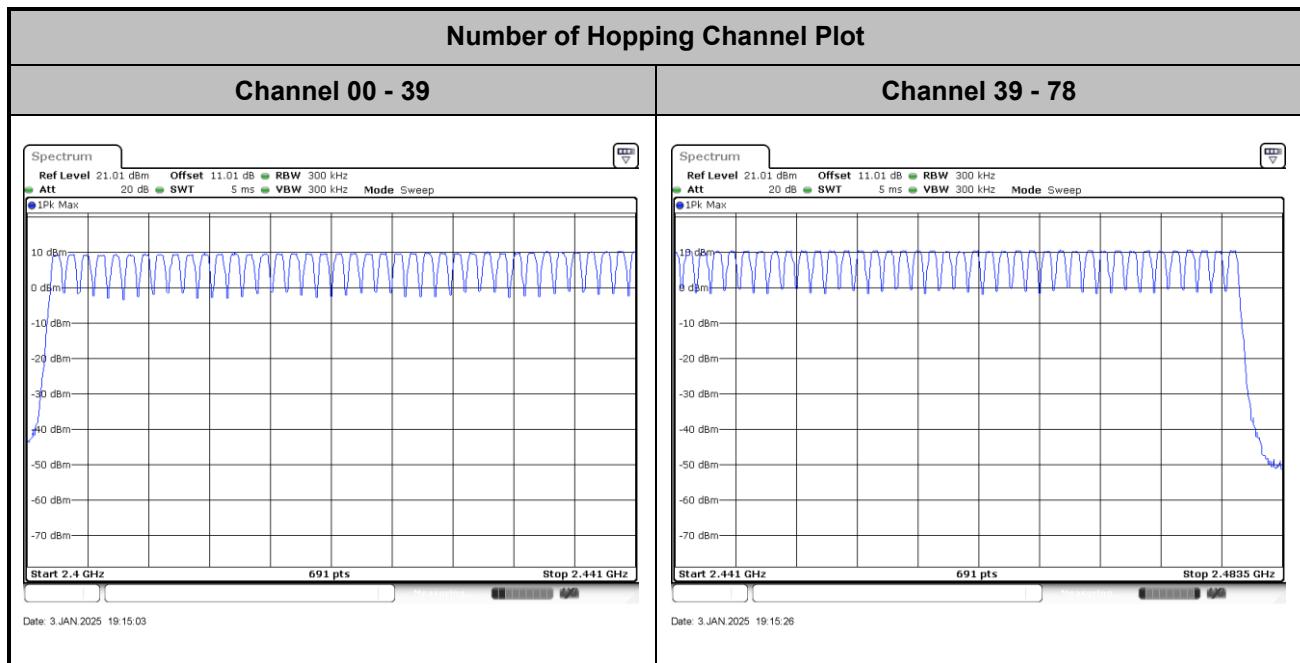
TEST RESULTS DATA 20dB and 99% Occupied Bandwidth and Hopping Channel Separation									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	20db BW (MHz)	99% Bandwidth (MHz)	Hopping Channel Separation Measurement (MHz)	Hopping Channel Separation Measurement Limit (MHz)	Pass/Fail
DH	1Mbps	1	0	2402	0.922	0.808	0.986	0.6146	Pass
DH	1Mbps	1	39	2441	0.926	0.814	0.999	0.6176	Pass
DH	1Mbps	1	78	2480	0.927	0.811	0.986	0.6178	Pass
2DH	2Mbps	1	0	2402	1.296	1.170	1.007	0.8640	Pass
2DH	2Mbps	1	39	2441	1.296	1.171	0.999	0.8638	Pass
2DH	2Mbps	1	78	2480	1.298	1.170	0.994	0.8654	Pass

TEST RESULTS DATA Dwell Time						
Mod.	Hopping Channel Number Rate	Hops Over Occupancy Time (hops)	Package Transfer Time (msec)	Dwell Time (sec)	Limits (sec)	Pass/Fail
2DH5	79	106.670	2.90	0.31	0.4	Pass
2DH5 (AFH)	20	53.330	2.90	0.15	0.4	Pass

TEST RESULTS DATA Peak Power Table					
DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH1	0	1	9.74	30.00	Pass
	39	1	10.50	30.00	Pass
	78	1	10.93	30.00	Pass
2DH1	0	1	11.69	20.97	Pass
	39	1	12.71	20.97	Pass
	78	1	12.94	20.97	Pass

TEST RESULTS DATA Average Power Table (Reporting Only)					
DH	CH.	NTX	Average Power (dBm)	Duty Factor (dB)	Setting
DH1	0	1	9.13	5.17	7.00
	39	1	10.01	5.17	
	78	1	10.43	5.17	
2DH1	0	1	8.75	5.06	7.00
	39	1	9.93	5.06	
	78	1	10.16	5.06	

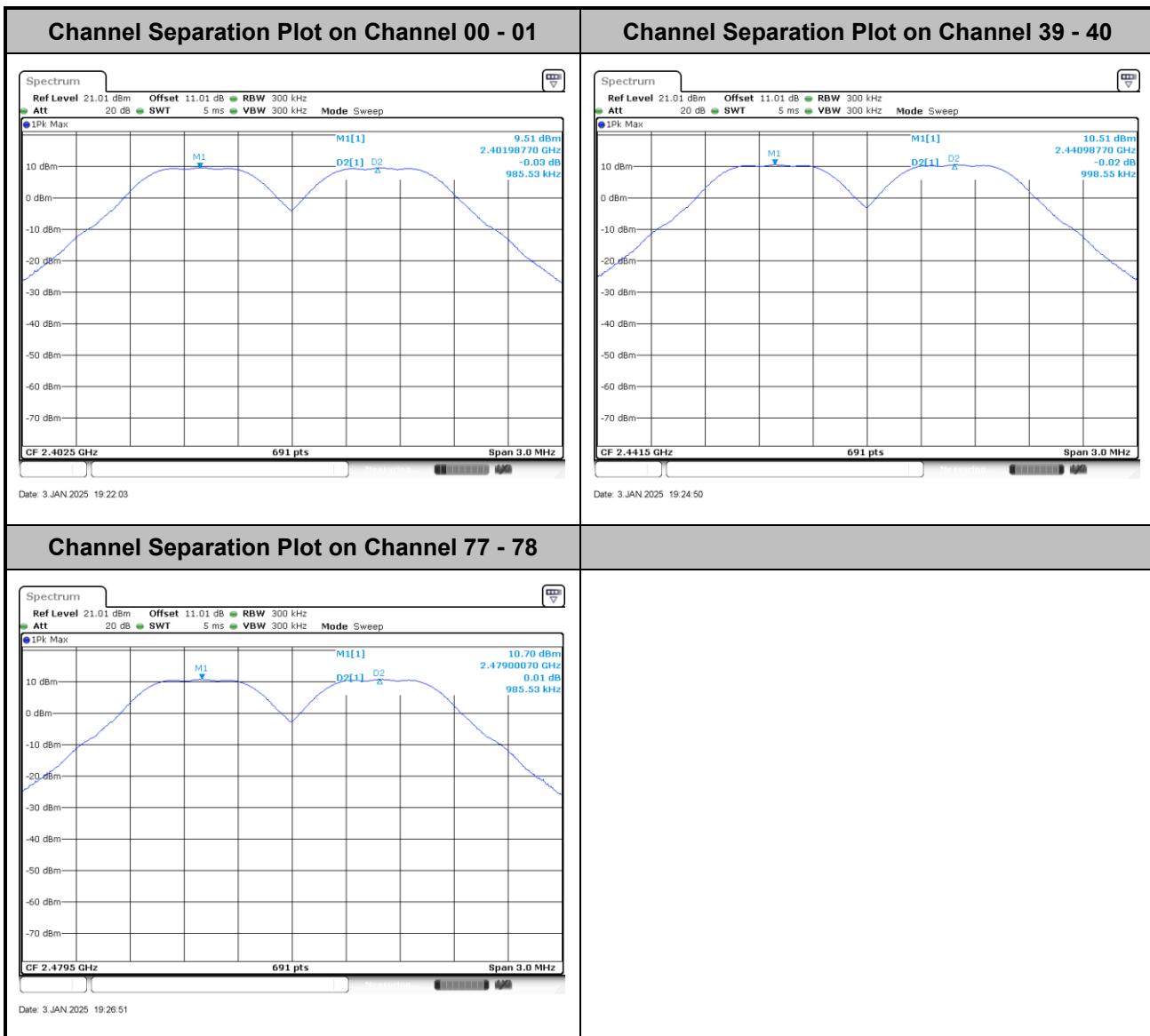
TEST RESULTS DATA Number of Hopping Frequency			
Number of Hopping (Channel)	Adaptive Frequency Hopping (Channel)	Limits (Channel)	Pass/Fail
79	20	> 15	Pass

**Number of Hopping Frequency**



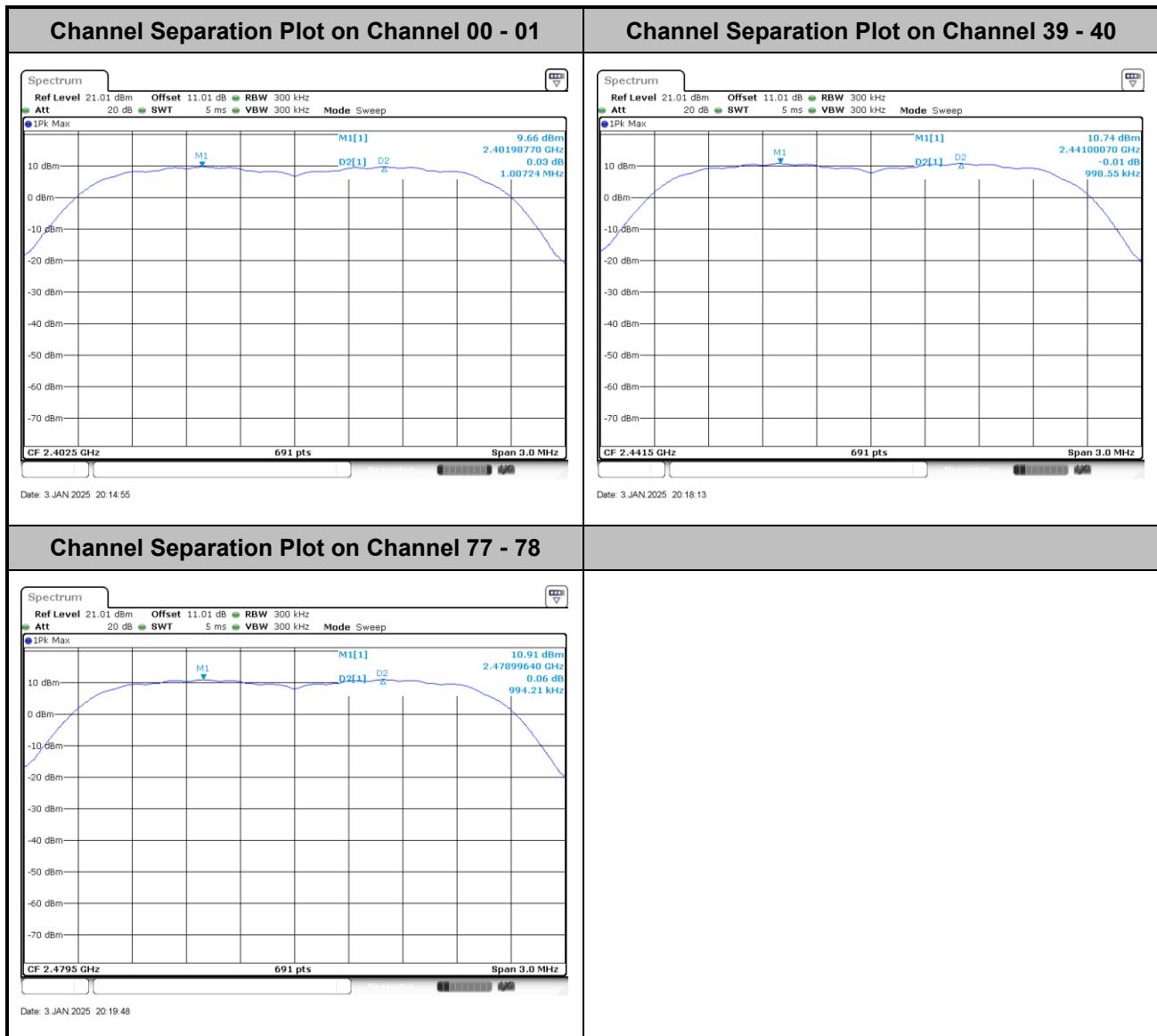
Hopping Channel Separation

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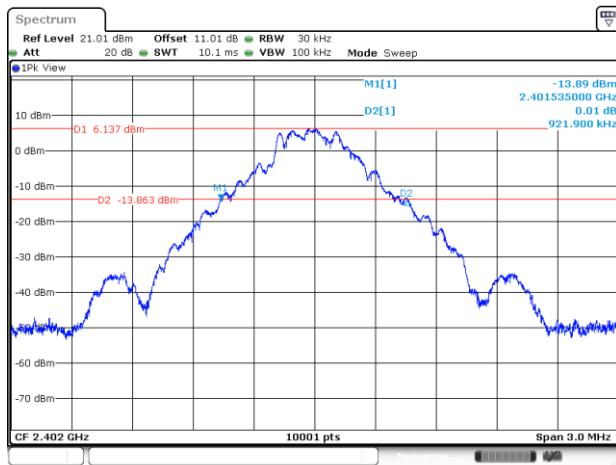


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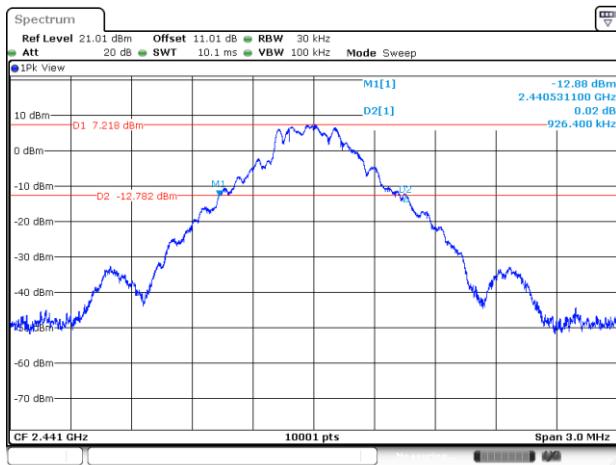


**20dB Bandwidth**

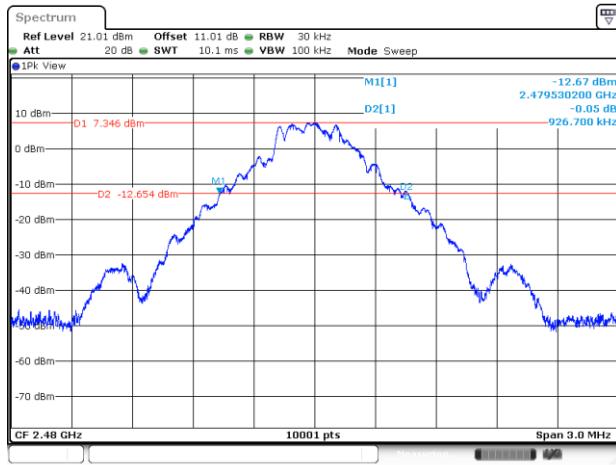
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20 dB Bandwidth Plot in Channel 00

Date: 3 JAN 2025 19:34:28

20 dB Bandwidth Plot in Channel 39

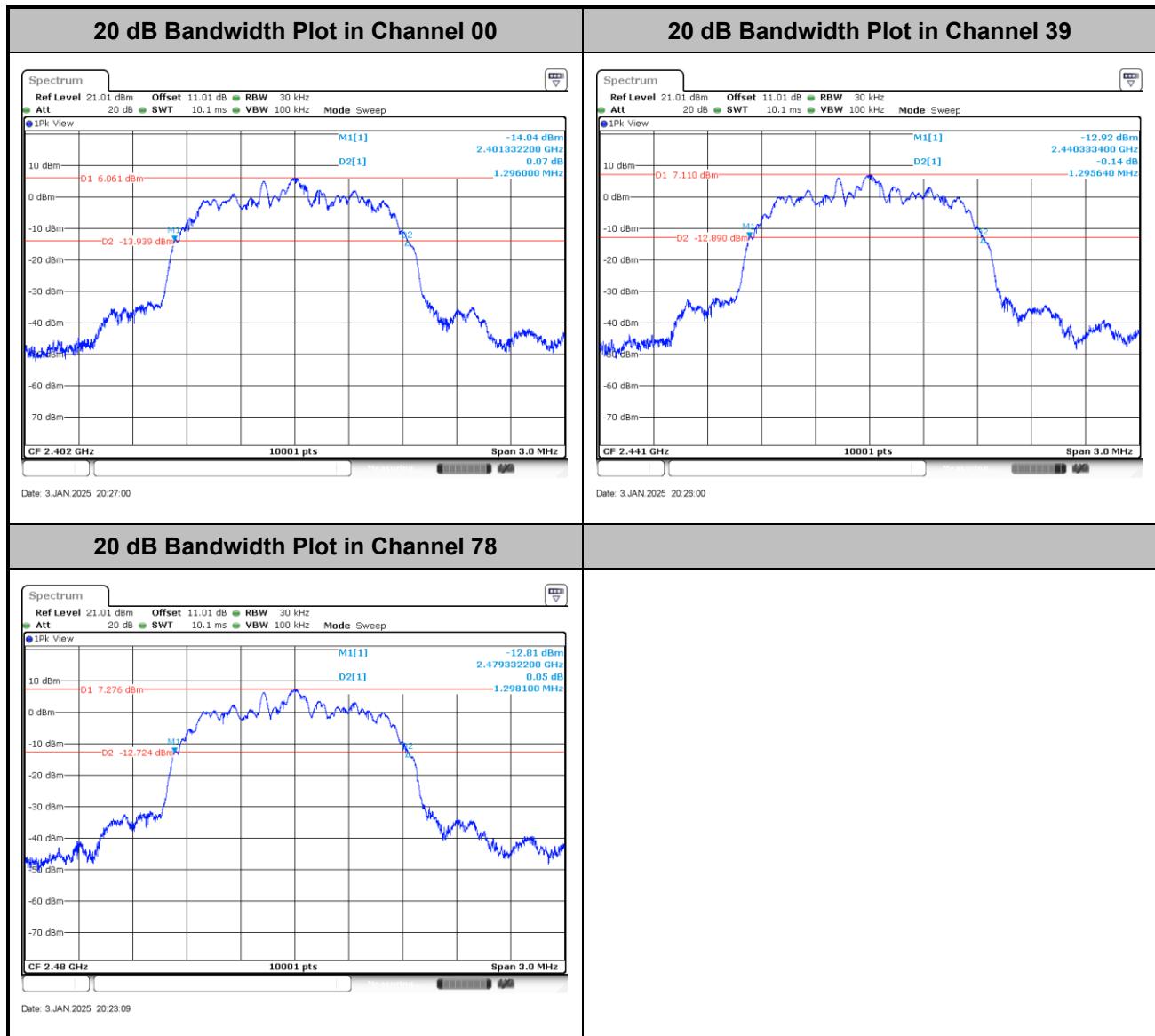
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20 dB Bandwidth Plot in Channel 78

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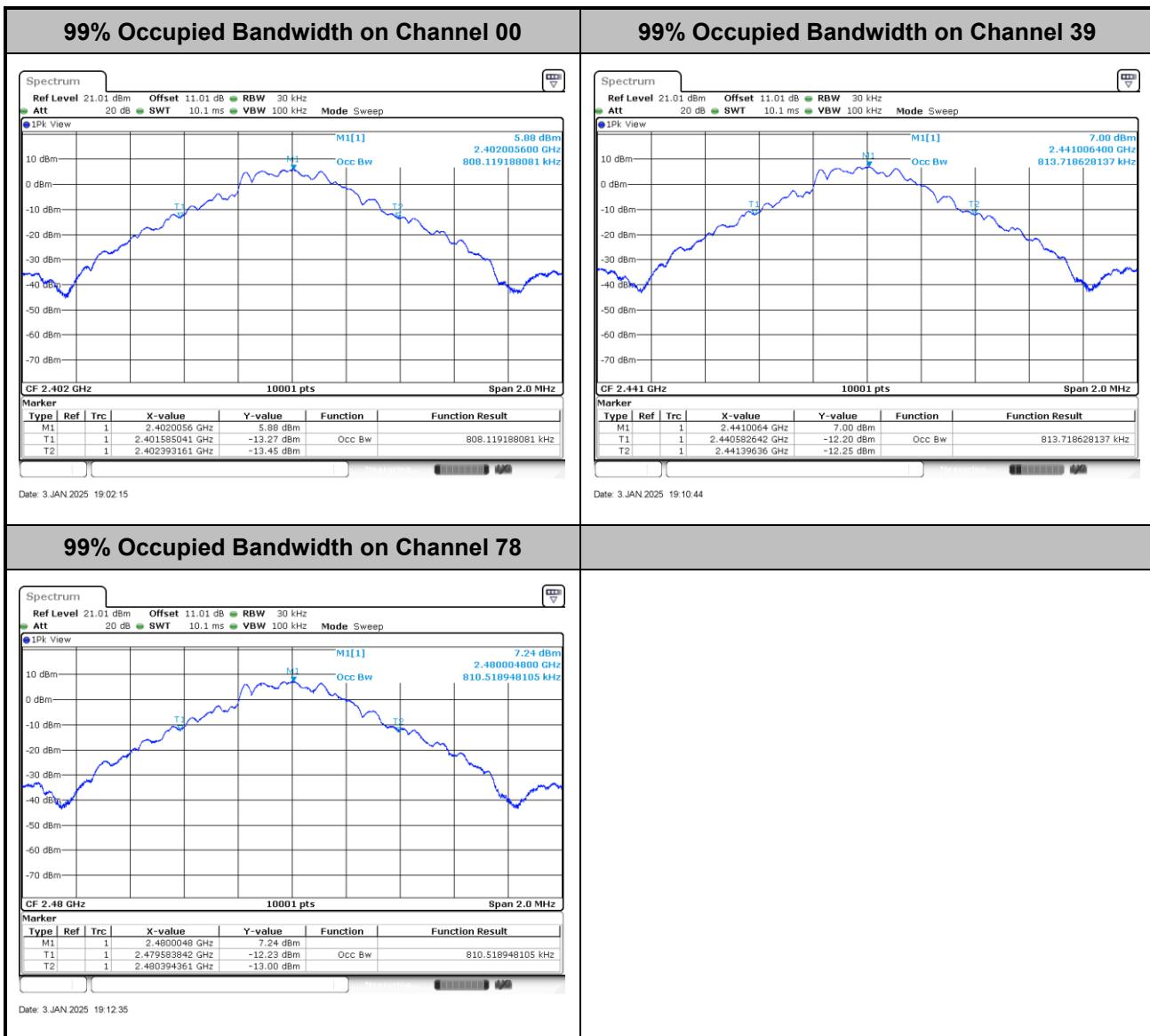


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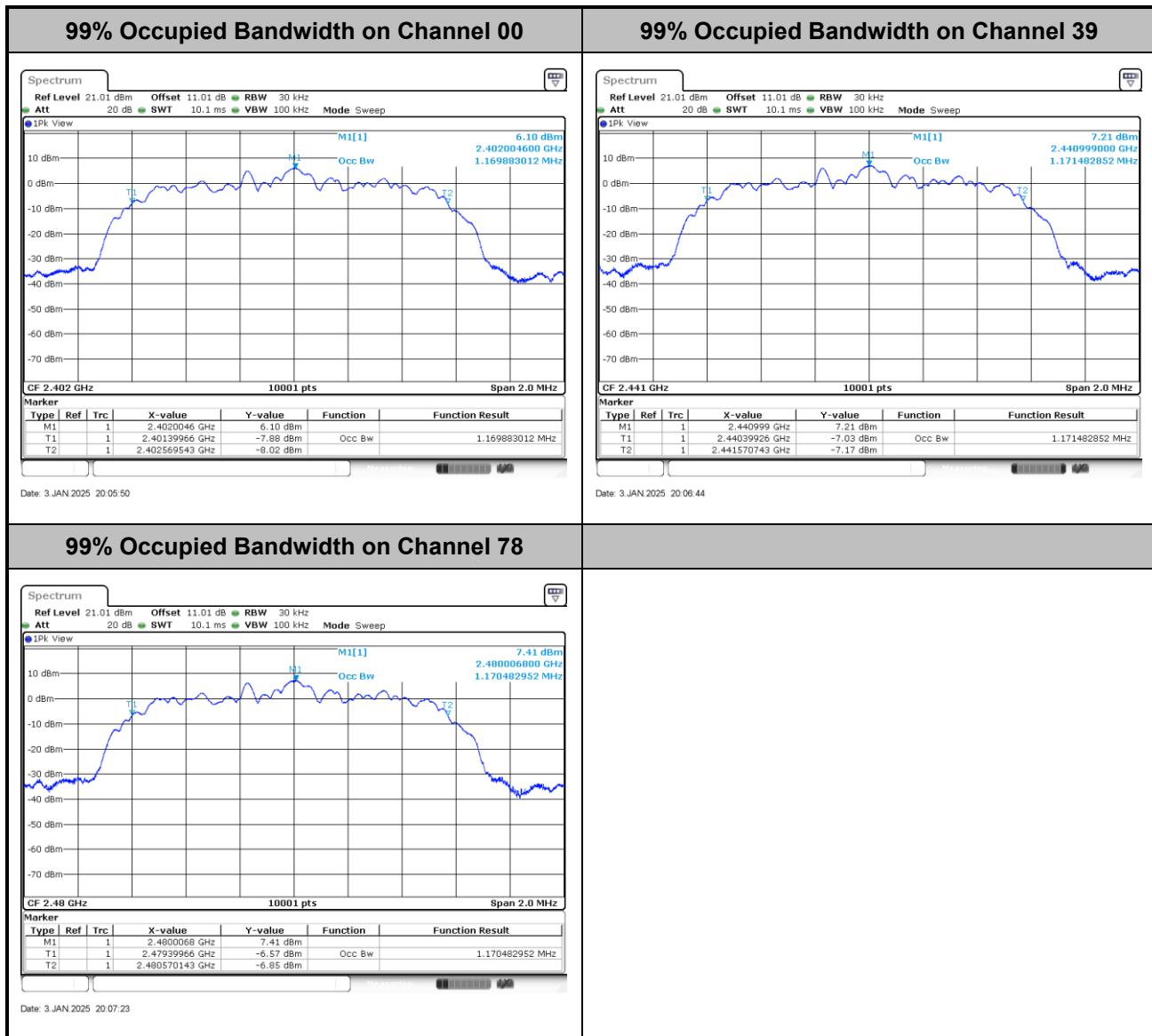
**99% Occupied Bandwidth**

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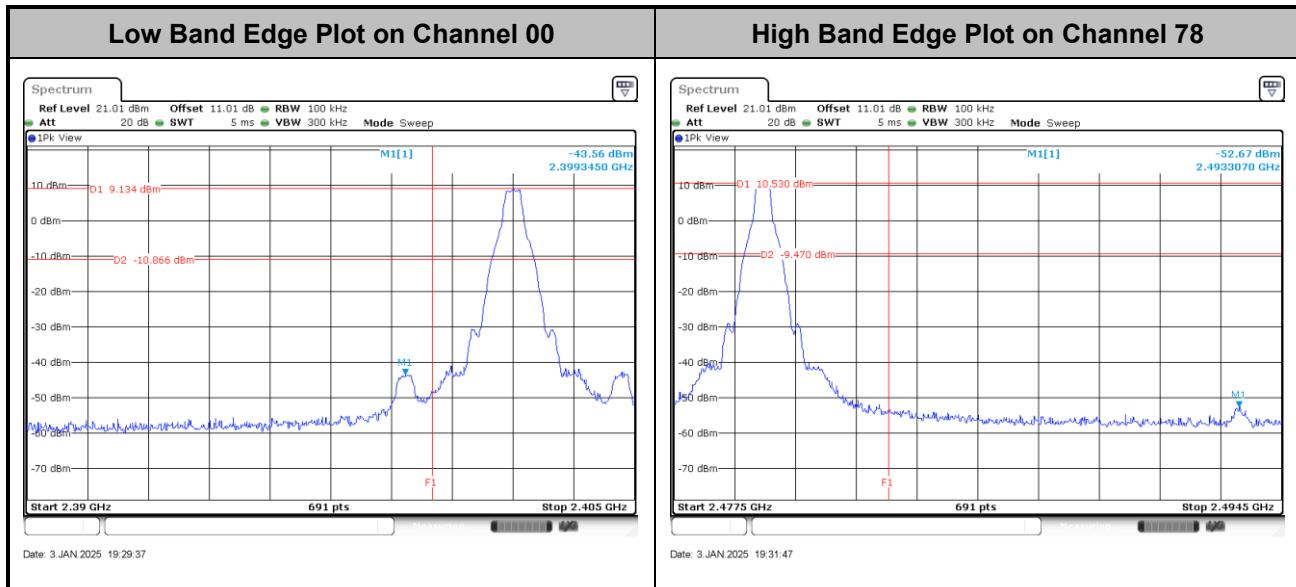


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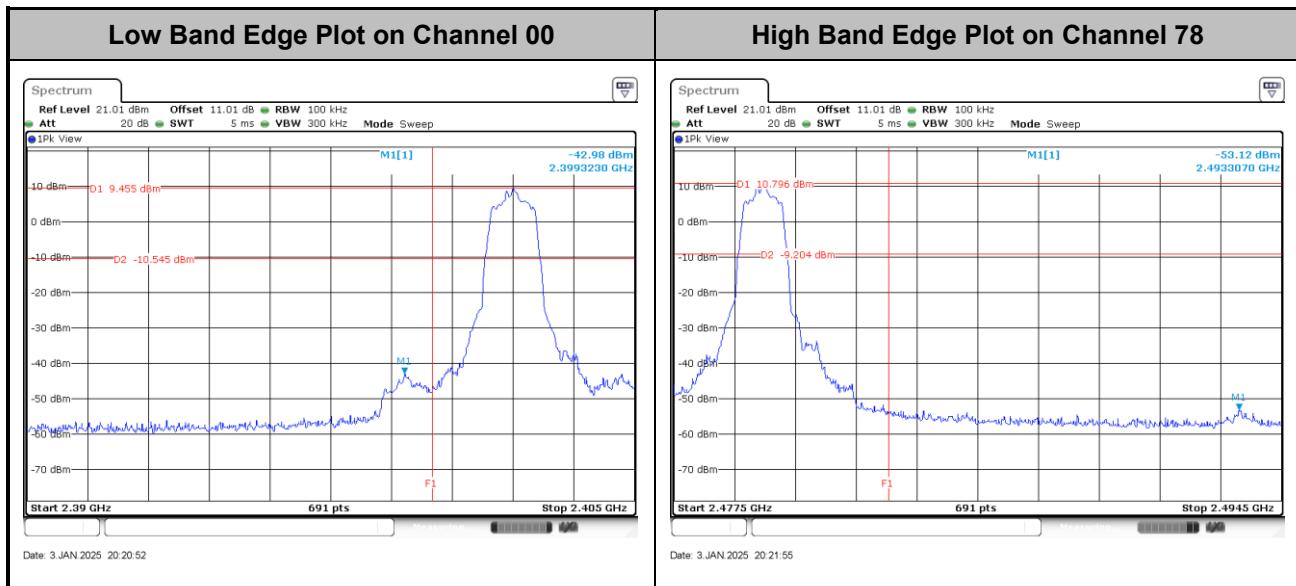


Band Edges

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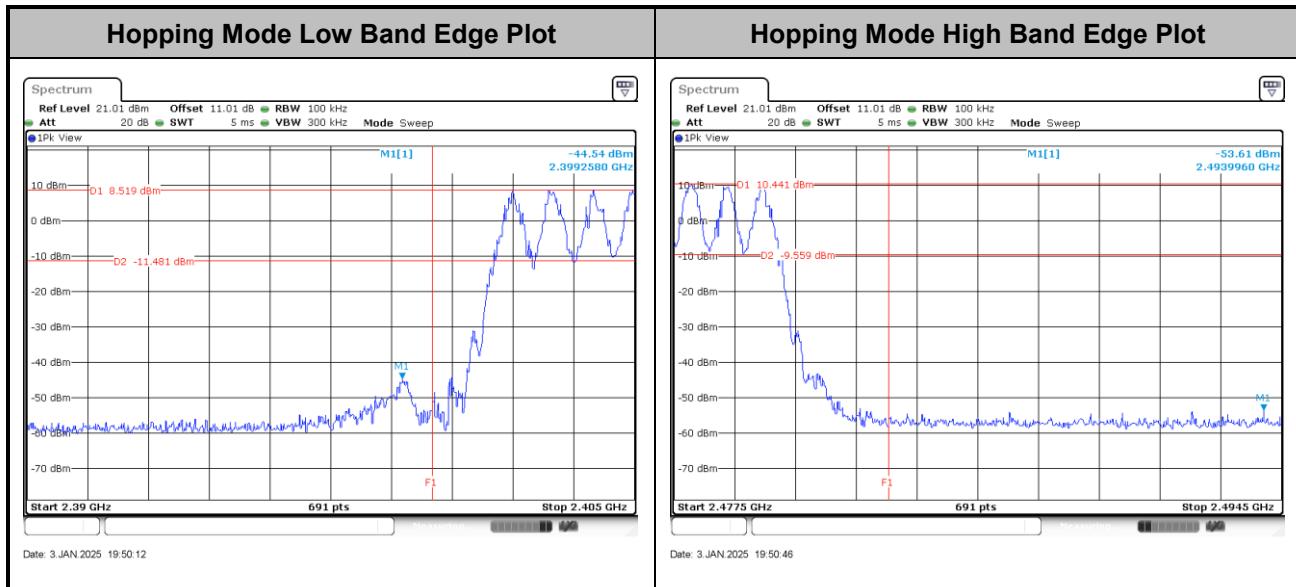
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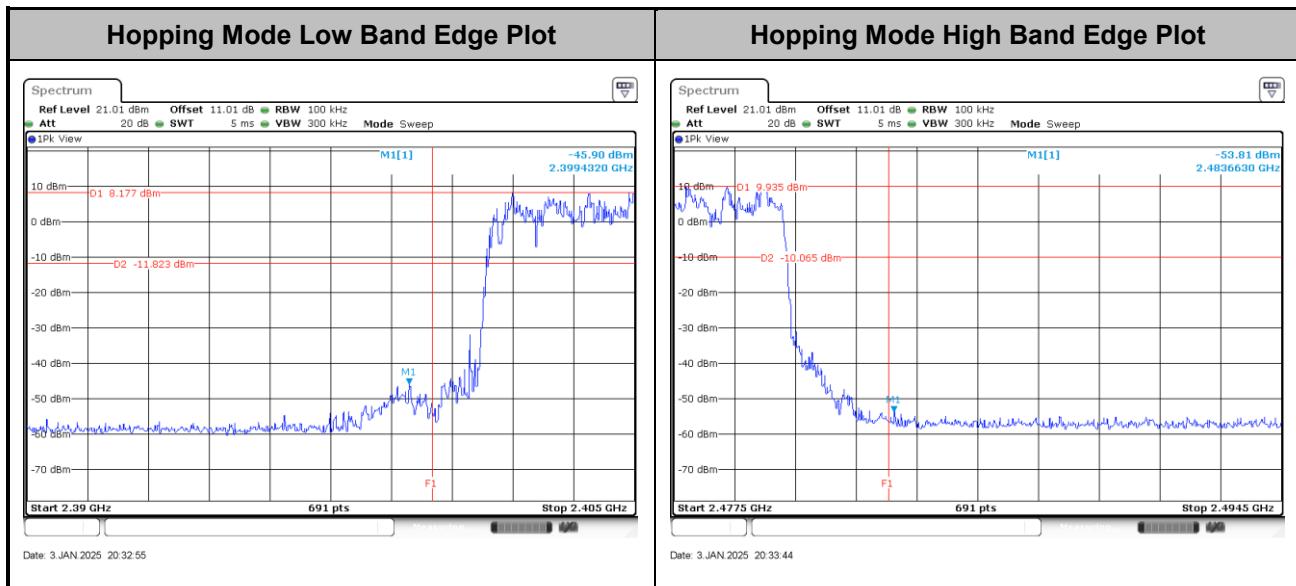


Hopping Mode Band Edges

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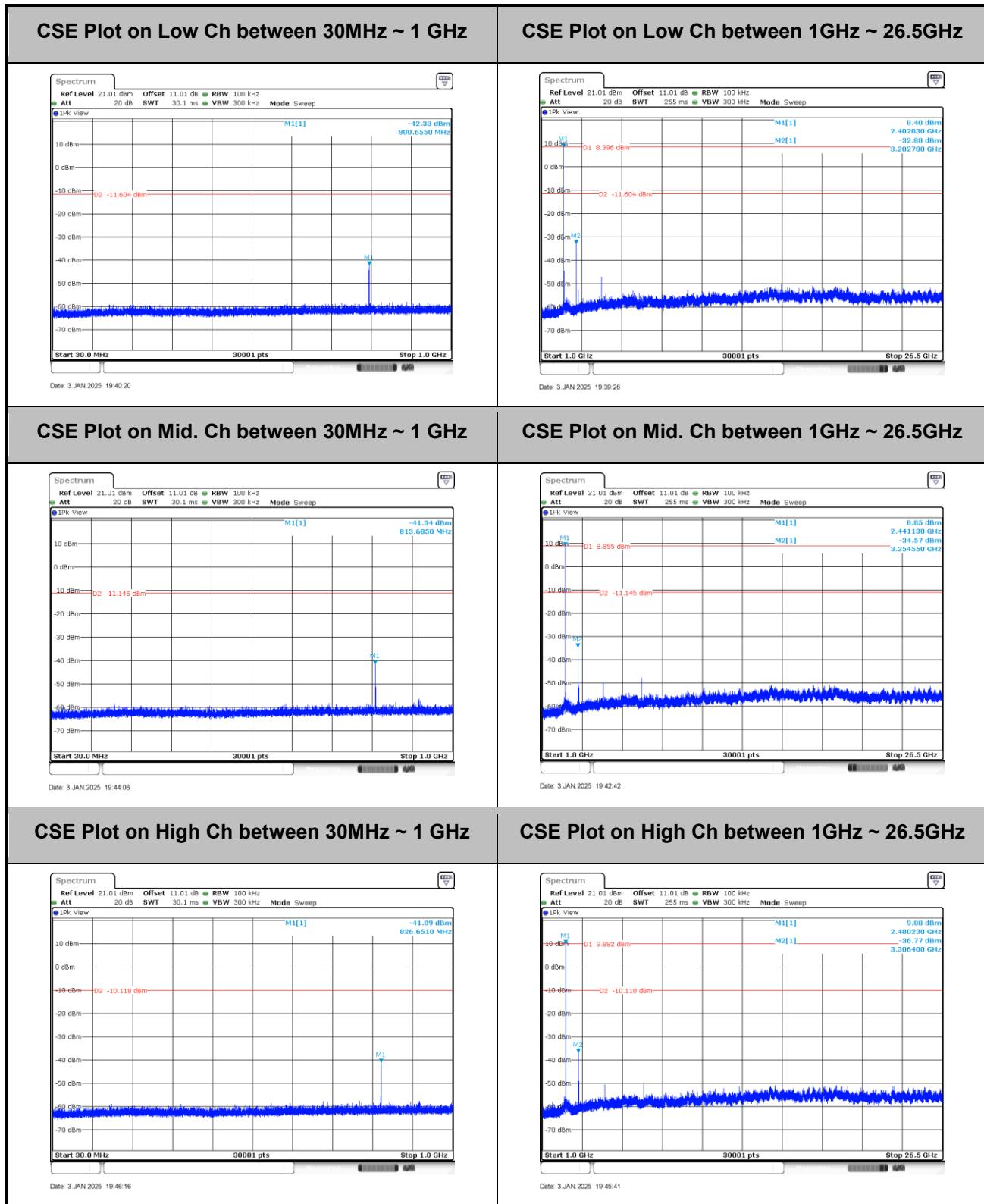


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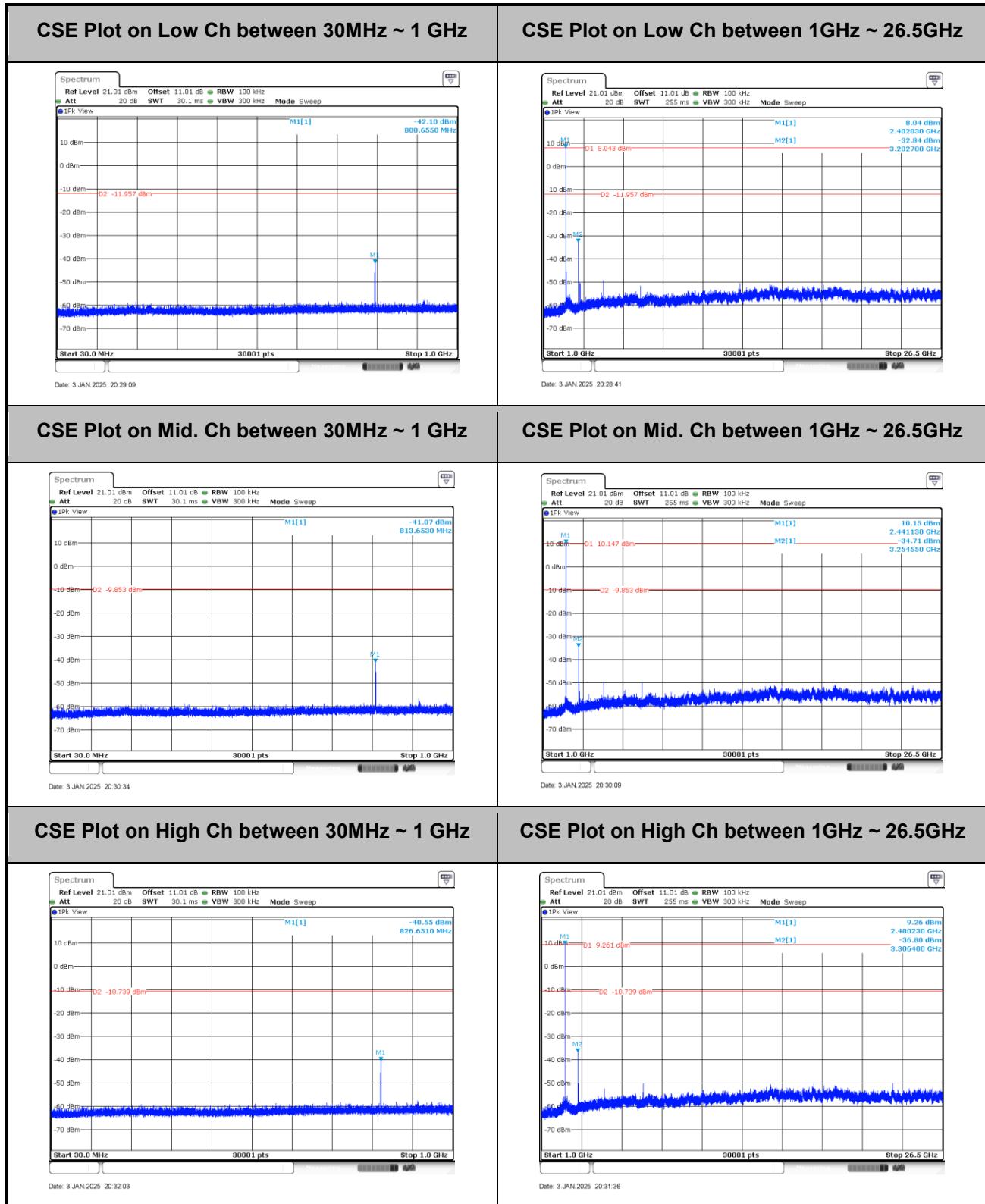
**Conducted Spurious Emission**

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<2Mbps>



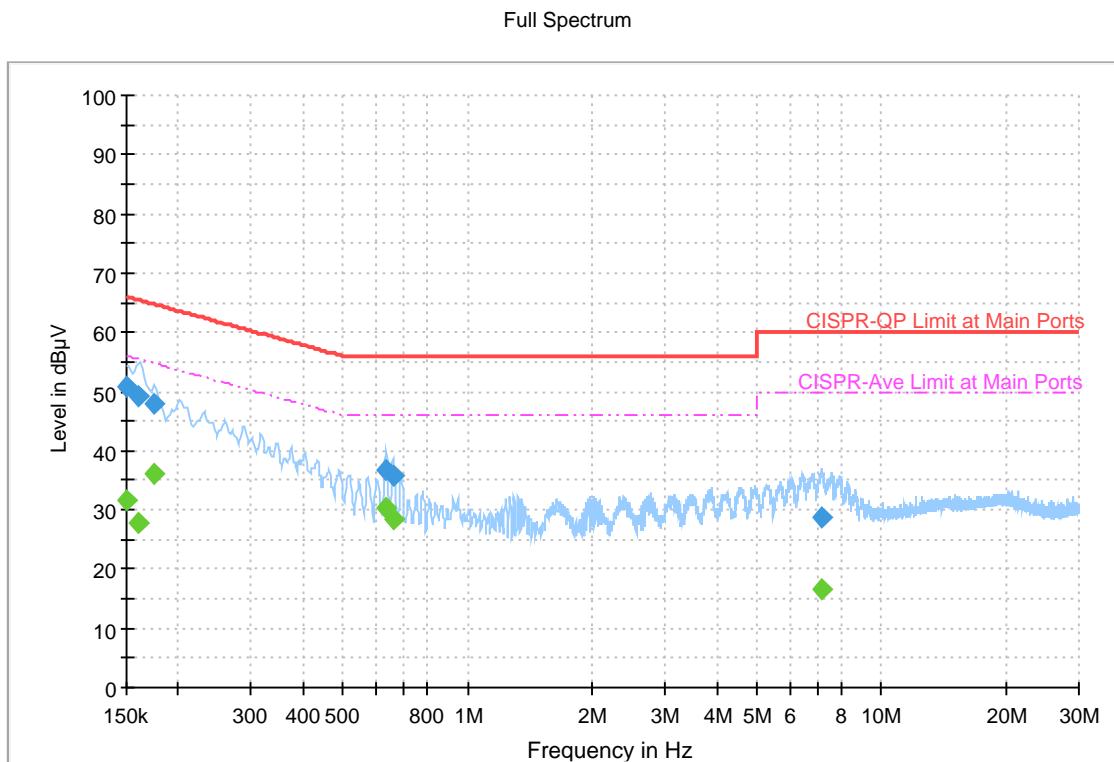


Appendix B. AC Conducted Emission Test Results

Test Engineer :	Leo Liu	Temperature :	21.0~23.6°C
		Relative Humidity :	42.0~44.9%

EUT Information

Test Site Location : CO01-CA
 Project 241204002
 Power: 120Vac/60Hz
 Mode 2
 LINE



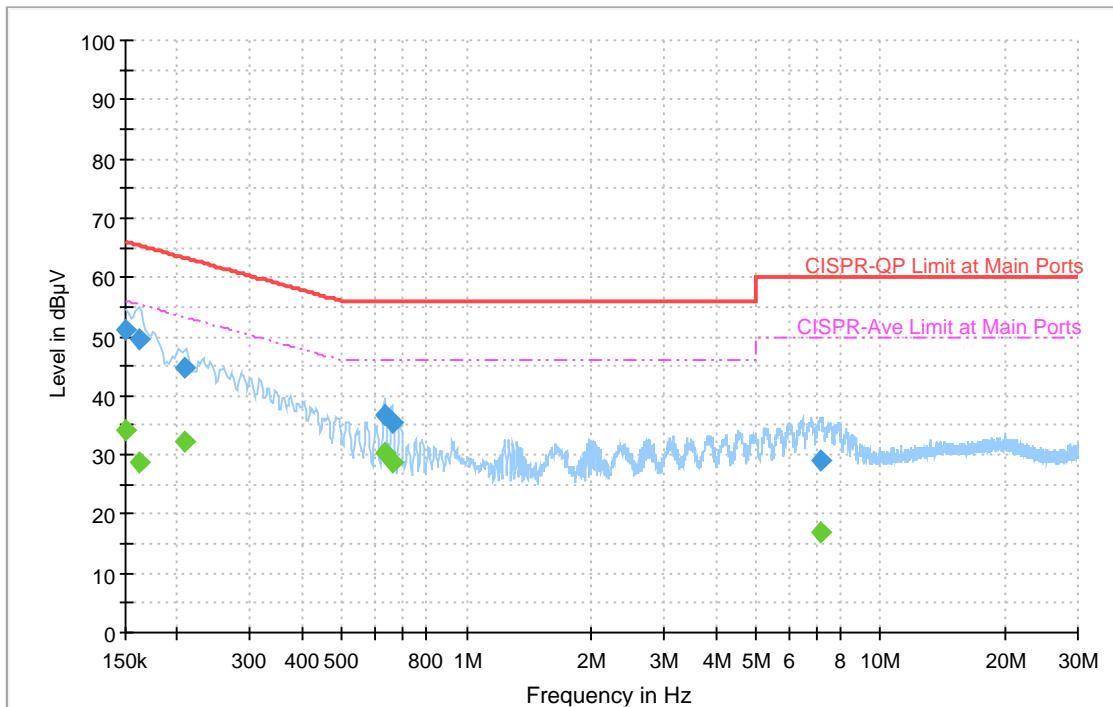
Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.150230	---	31.75	55.99	24.24	L1	OFF	20.4
0.150230	50.94	---	65.99	15.05	L1	OFF	20.4
0.160935	---	27.86	55.42	27.56	L1	OFF	20.4
0.160935	49.09	---	65.42	16.33	L1	OFF	20.4
0.174930	---	36.19	54.72	18.53	L1	OFF	20.3
0.174930	47.98	---	64.72	16.74	L1	OFF	20.3
0.632634	---	30.43	46.00	15.57	L1	OFF	20.3
0.632634	36.69	---	56.00	19.31	L1	OFF	20.3
0.660156	---	28.29	46.00	17.71	L1	OFF	20.3
0.660156	35.70	---	56.00	20.30	L1	OFF	20.3
7.160937	---	16.53	50.00	33.47	L1	OFF	21.1
7.160937	28.91	---	60.00	31.09	L1	OFF	21.1

EUT Information

Test Site Location : CO01-CA
 Project 241204002
 Power: 120Vac/60Hz
 Mode 2
 Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.150095	---	34.20	56.00	21.79	N	OFF	20.4
0.150095	51.16	---	66.00	14.83	N	OFF	20.4
0.161520	---	28.74	55.39	26.65	N	OFF	20.4
0.161520	49.53	---	65.39	15.86	N	OFF	20.4
0.208194	---	32.23	53.28	21.05	N	OFF	20.3
0.208194	44.69	---	63.28	18.59	N	OFF	20.3
0.632589	---	30.26	46.00	15.74	N	OFF	20.3
0.632589	36.65	---	56.00	19.35	N	OFF	20.3
0.661380	---	28.85	46.00	17.15	N	OFF	20.3
0.661380	35.53	---	56.00	20.47	N	OFF	20.3
7.149021	---	16.93	50.00	33.07	N	OFF	21.1
7.149021	29.12	---	60.00	30.88	N	OFF	21.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Edward Liao	Temperature :	15.1~20.5°C
		Relative Humidity :	43.2~47.8%

Note symbol

-L	Low channel location
-R	High channel location



C1. Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth BR_GFSK	0	2402	2Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth BR_GFSK	39	2441	2Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	2Mbps	-	-
Mode 7	2400-2483.5	1	Bluetooth BR_GFSK	0	2402	2Mbps	-	LF
Mode 8	2400-2483.5	1	Bluetooth BR_GFSK	0	2402	2Mbps	-	SHF



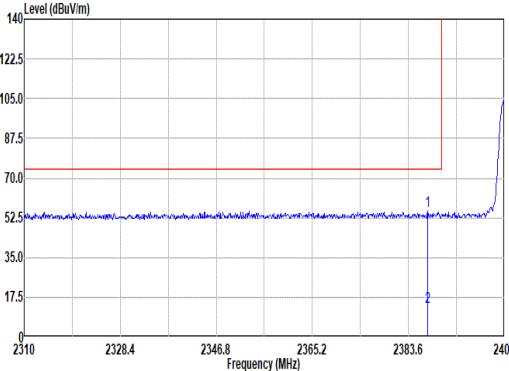
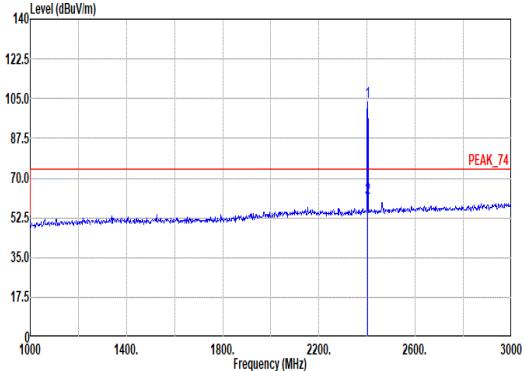
C2. Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth BR_GFSK	00	2373.76	55.87	74.00	-18.13	V	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	00	3203.00	57.98	74.00	-16.02	V	Peak	Pass	-	Harmonic
2	Bluetooth BR_GFSK	39	2490.91	56.32	74.00	-17.68	V	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	39	3255.00	57.35	74.00	-16.65	V	Peak	Pass	-	Harmonic
3	Bluetooth BR_GFSK	78	2494.68	56.54	74.00	-17.46	H	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	78	3306.00	58.66	74.00	-15.34	V	Peak	Pass	-	Harmonic
4	Bluetooth BR_GFSK	0	2372.28	56.85	74.00	-17.15	H	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	0	4804.00	59.18	74.00	-14.82	V	Peak	Pass	-	Harmonic
5	Bluetooth BR_GFSK	39	2486.43	57.10	74.00	-16.90	V	Peak	Pass	-	Band Edge
	Bluetooth BR_GFSK	39	3255.00	58.28	74.00	-15.72	V	Peak	Pass	-	Harmonic
6	Bluetooth BR_GFSK	78	2491.68	56.58	74.00	-17.42	V	Peak	Pass	-	Band Edge



Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
6	Bluetooth BR_GFSK	78	3306.00	58.23	74.00	-15.77	V	Peak	Pass	-	Harmonic
7	LF	0	113.42	33.52	43.50	-9.98	V	Peak	Pass	-	LF
8	SHF	0	19507.00	49.17	74.00	-24.83	V	Peak	Pass	-	SHF



Mode	1																																																																																	
	Band Edge																																																																																	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																	
ANT	1																																																																																	
Pol.	Horizontal	Fundamental																																																																																
Peak	 <p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table><thead><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>Remark</th></tr><tr><th>Freq</th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2387.28</td><td>55.46</td><td>74.00</td><td>-18.54</td><td>41.00</td><td>27.39</td><td>8.13</td><td>31.09</td><td>10.03</td></tr><tr><td>2</td><td>2387.28</td><td>12.96</td><td>54.00</td><td>-41.04</td><td>--</td><td>--</td><td>--</td><td>--</td><td>-- Average</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	cm	deg	1	2387.28	55.46	74.00	-18.54	41.00	27.39	8.13	31.09	10.03	2	2387.28	12.96	54.00	-41.04	--	--	--	--	-- Average	 <p>Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_240129 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> <table><thead><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>Remark</th></tr><tr><th>Freq</th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2402.00</td><td>103.66</td><td>-----</td><td>-----</td><td>89.18</td><td>27.38</td><td>8.15</td><td>31.08</td><td>10.03</td></tr><tr><td>2</td><td>2402.00</td><td>61.16</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>-- Average</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	cm	deg	1	2402.00	103.66	-----	-----	89.18	27.38	8.15	31.08	10.03	2	2402.00	61.16	-----	-----	--	--	--	--	-- Average
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																									
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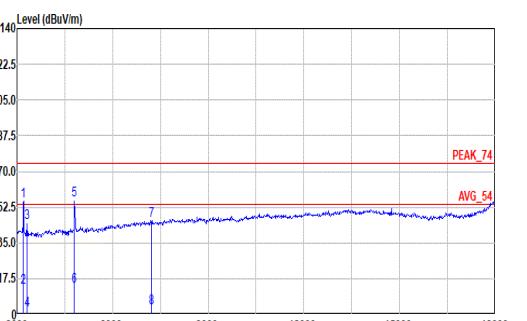
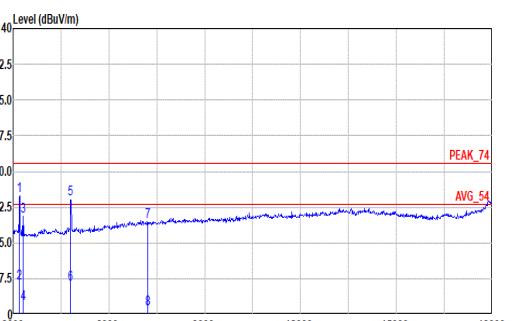
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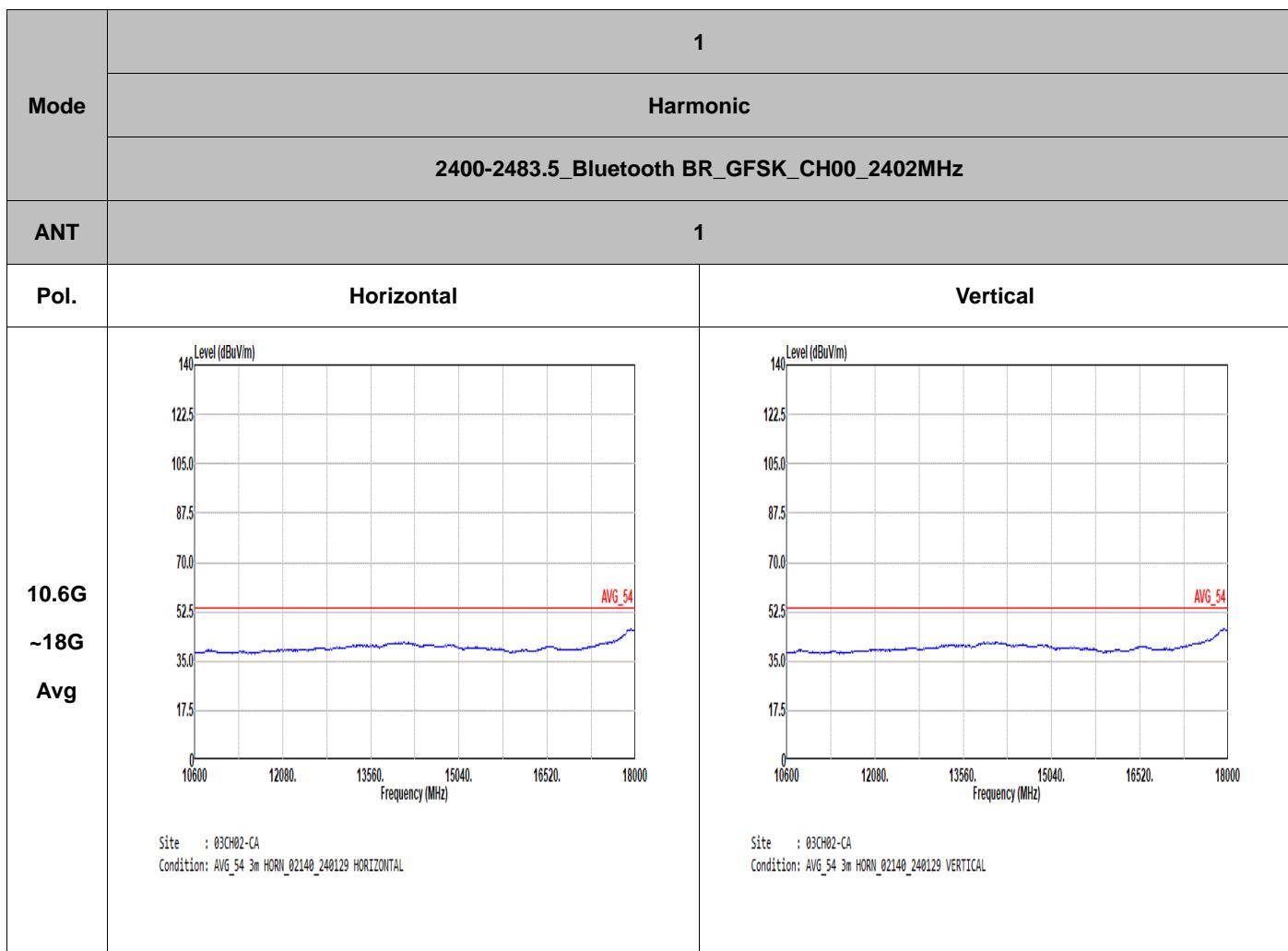


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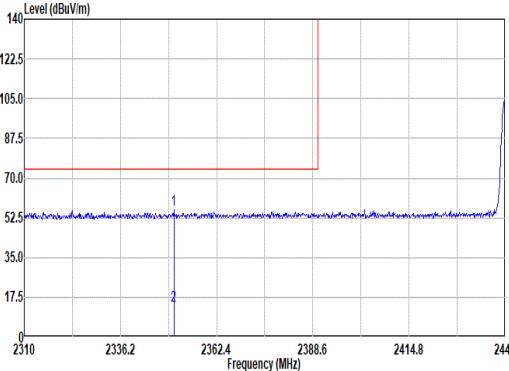
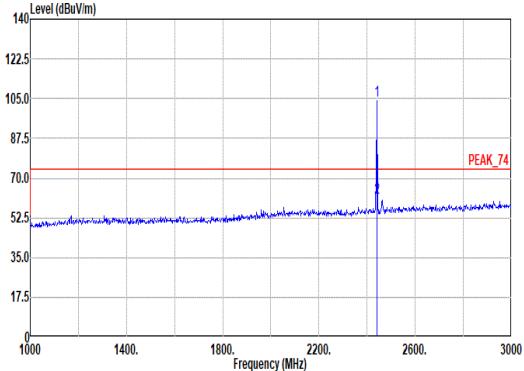
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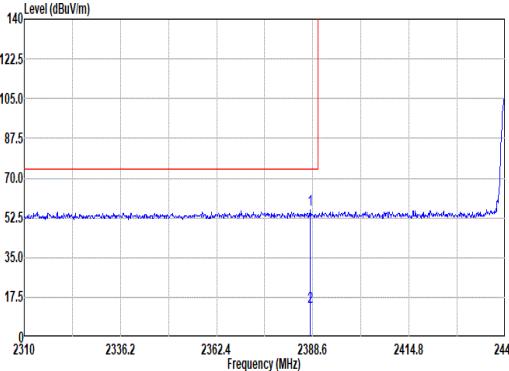
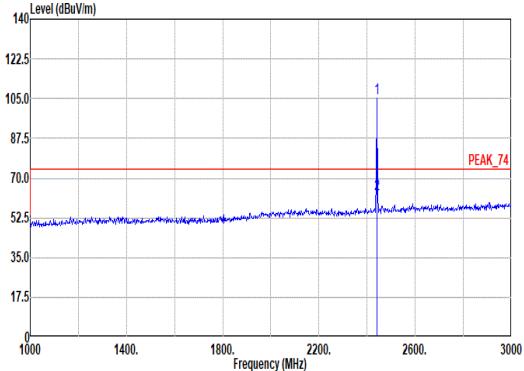


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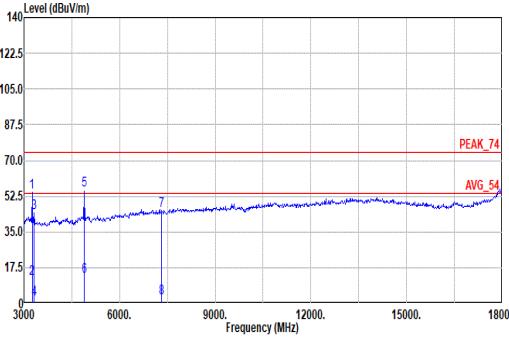
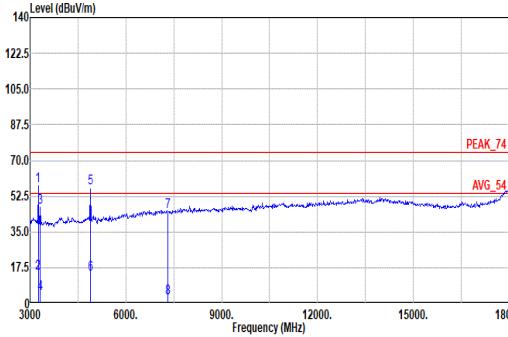


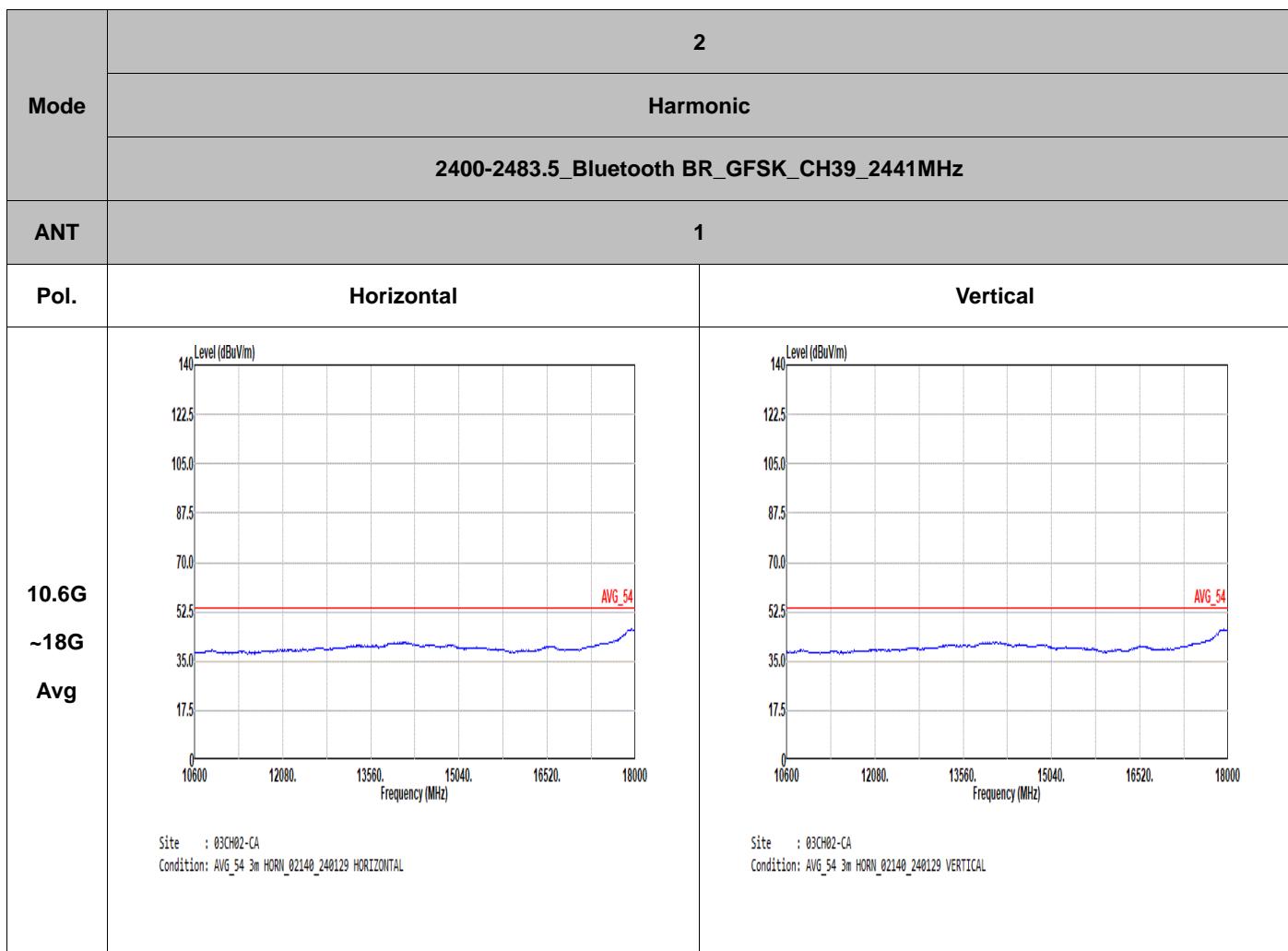
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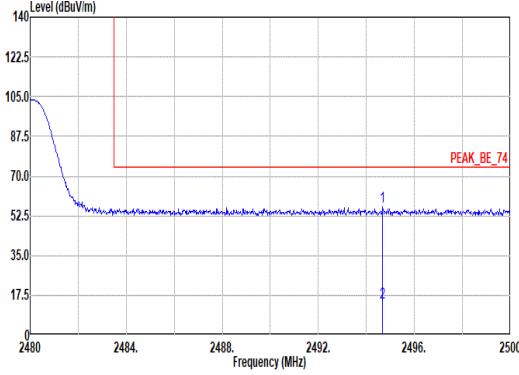
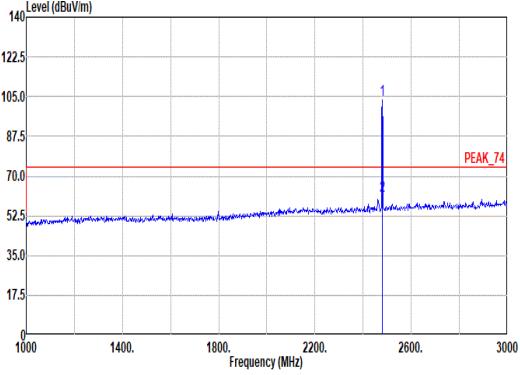
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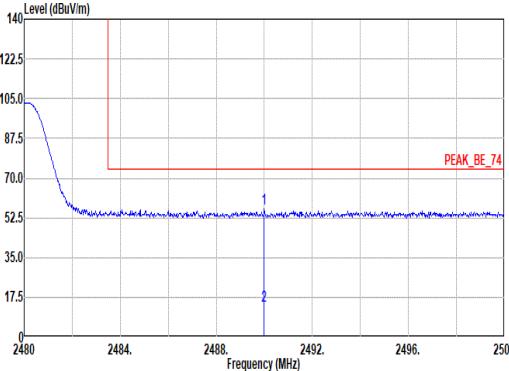
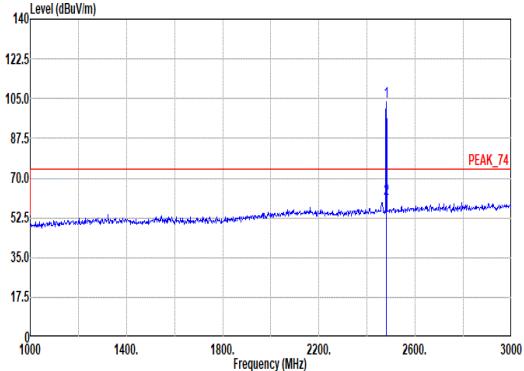
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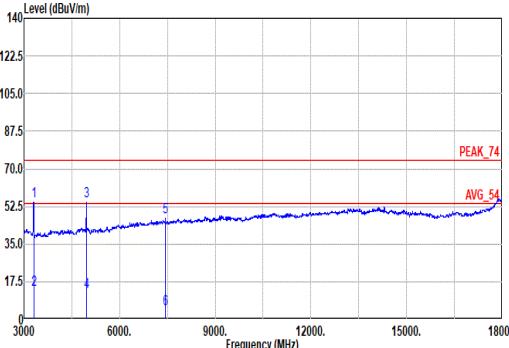
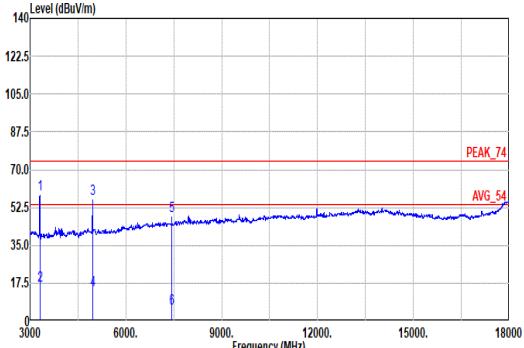


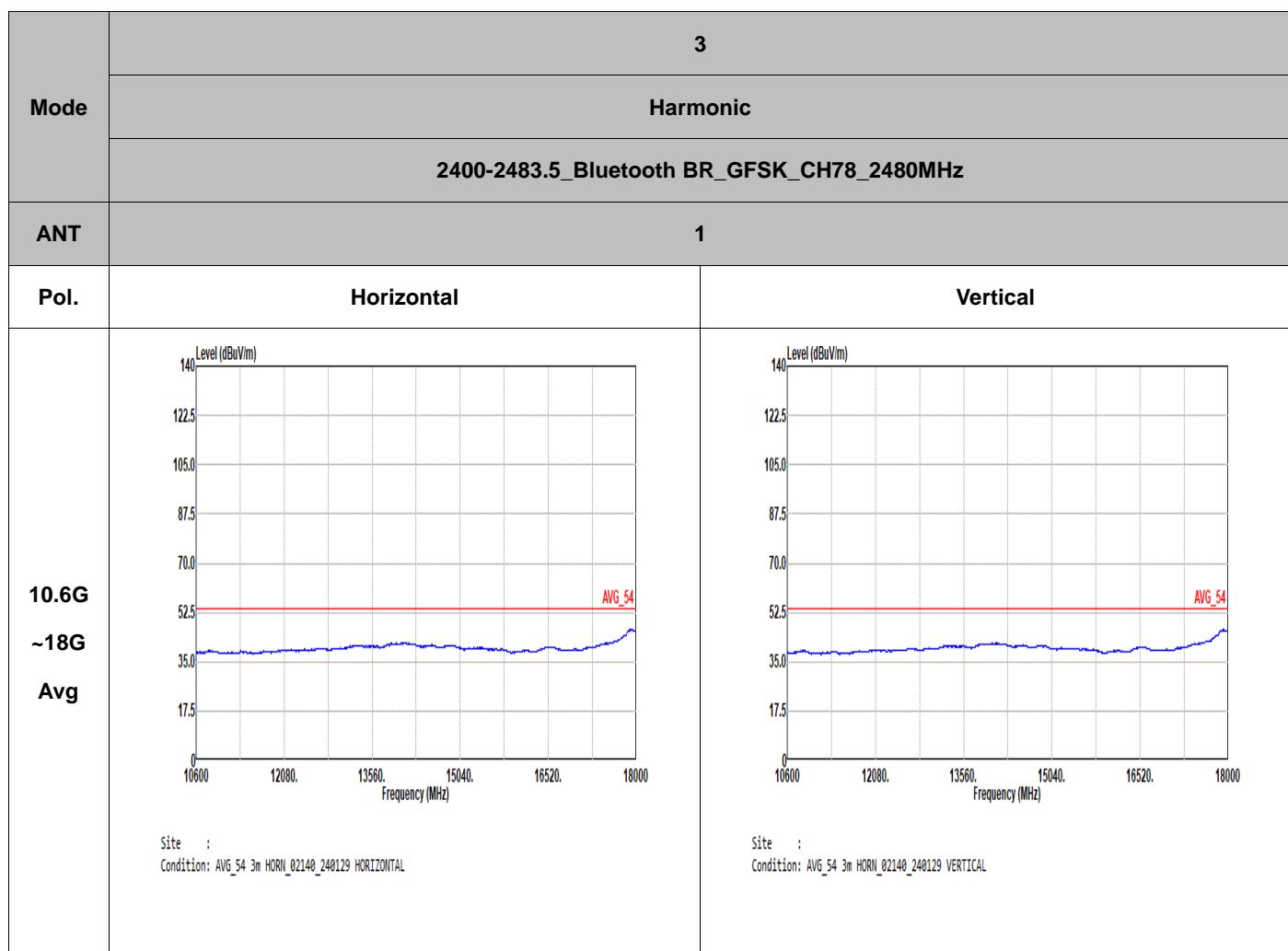
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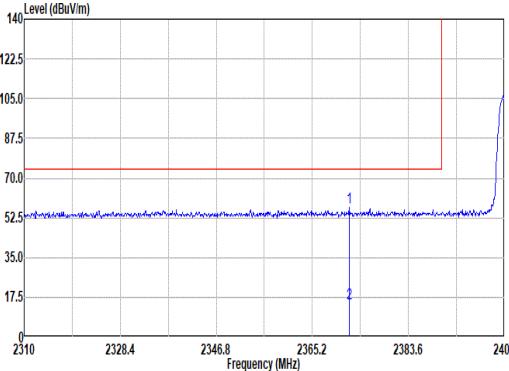
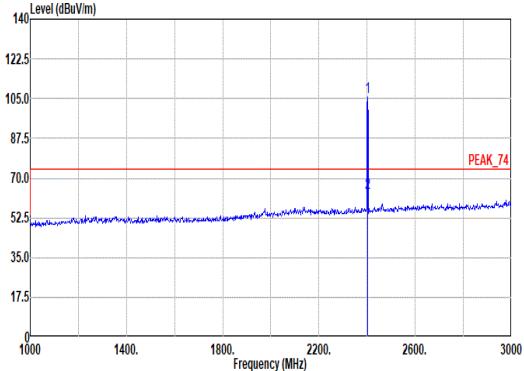
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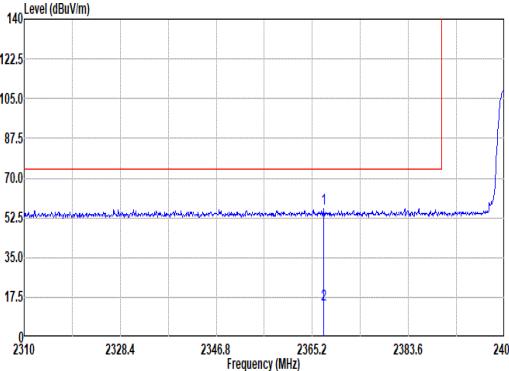
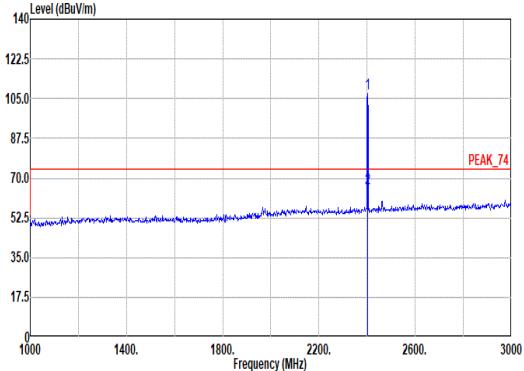
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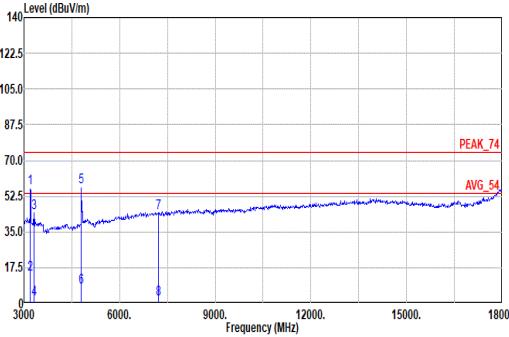
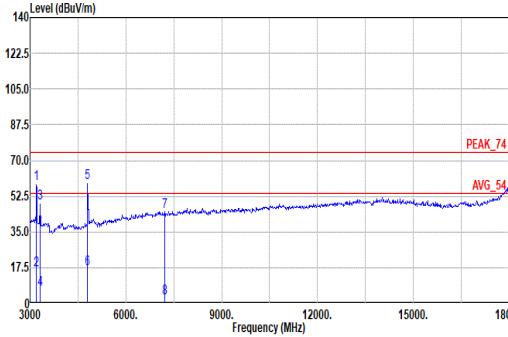


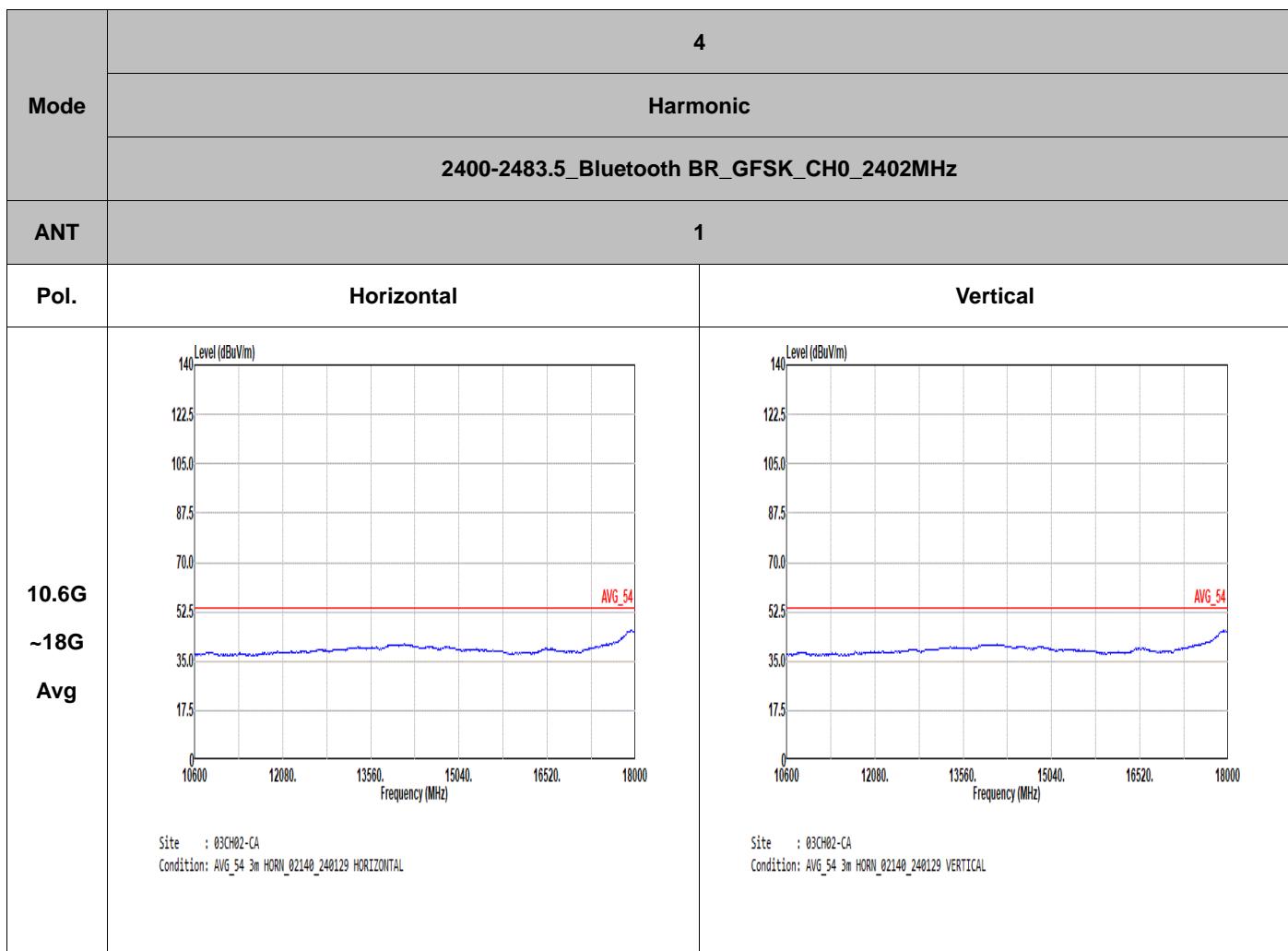
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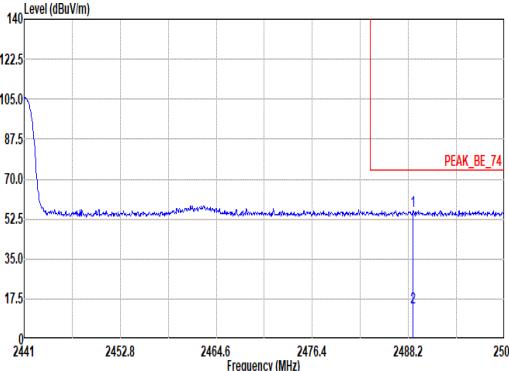
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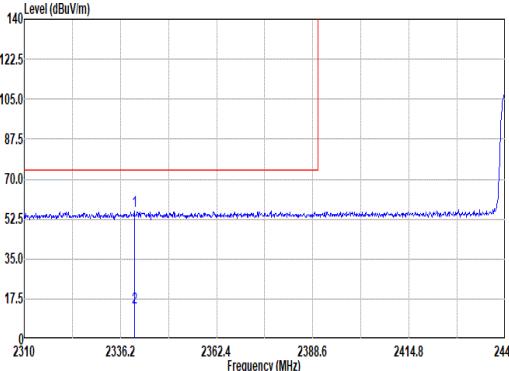
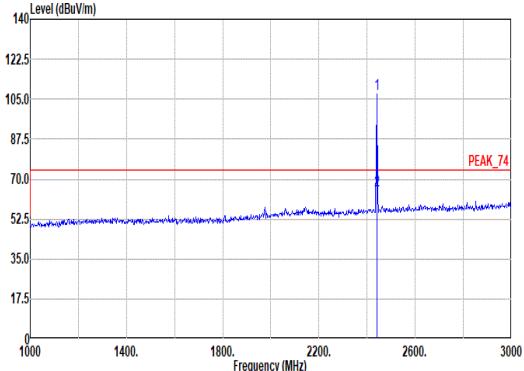


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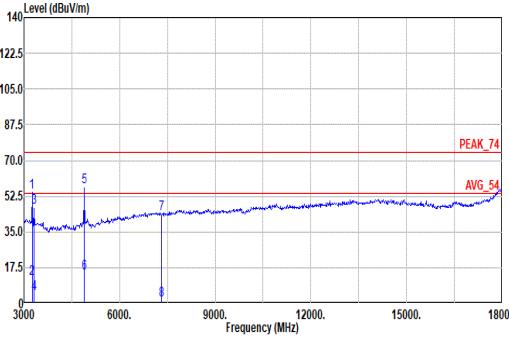
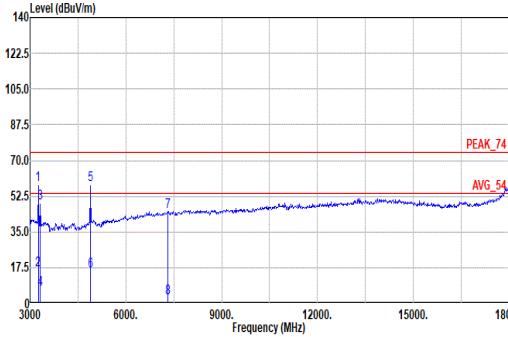


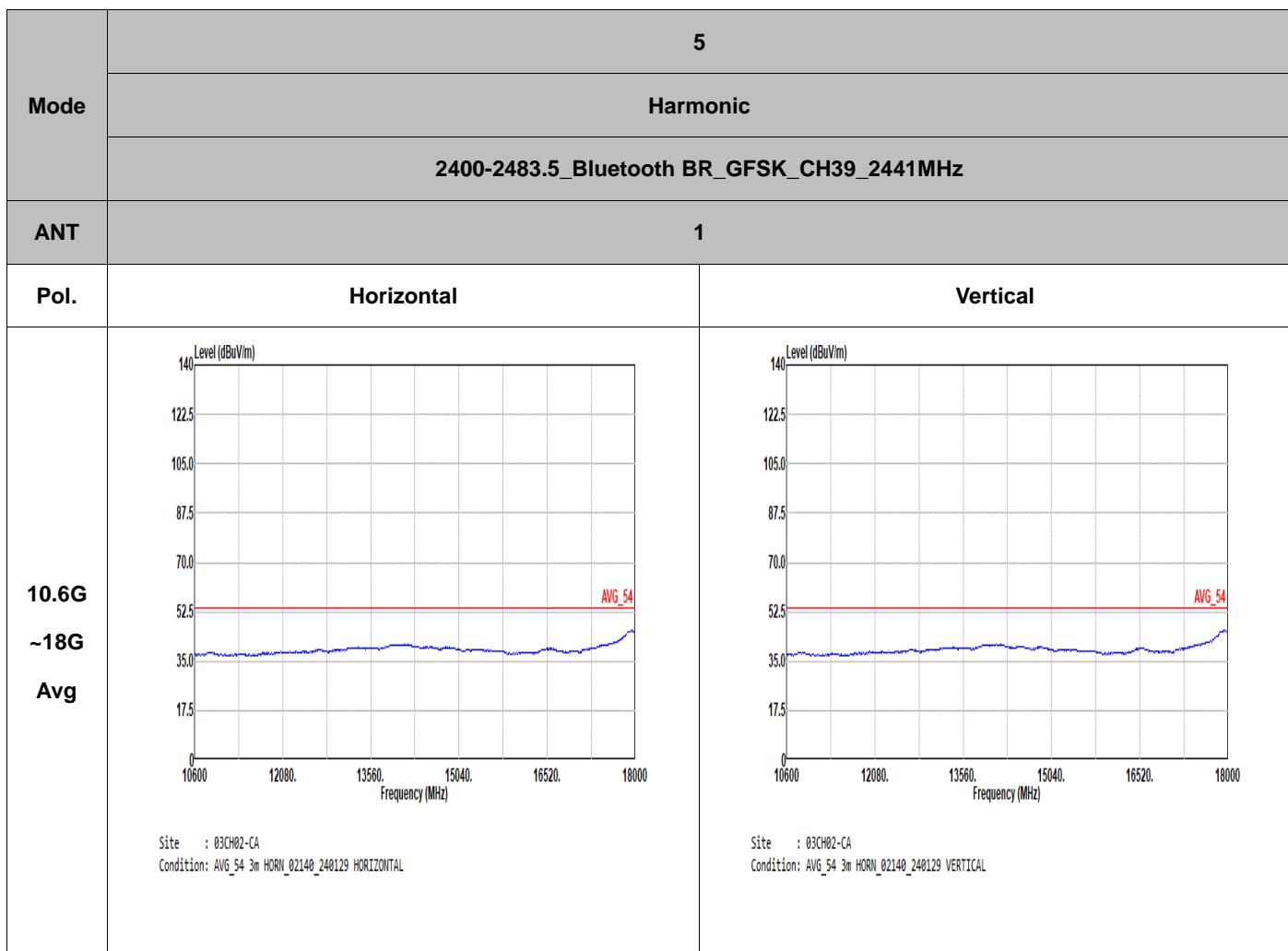
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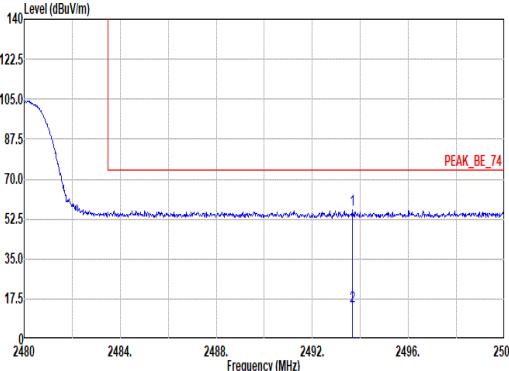
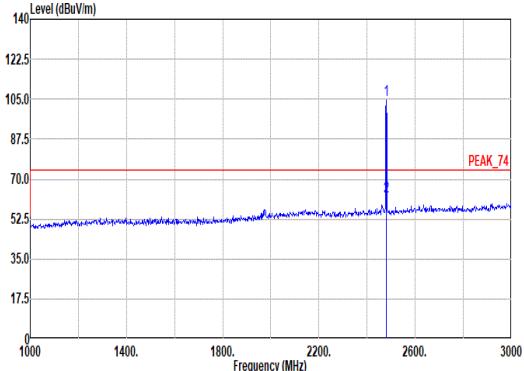
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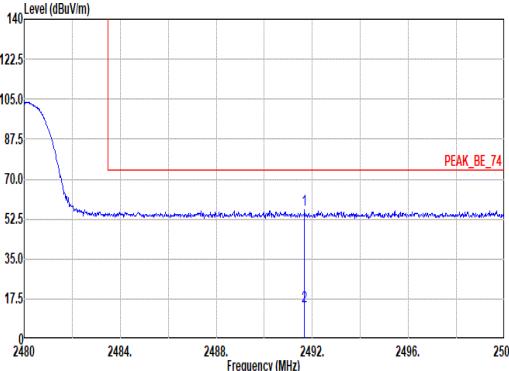
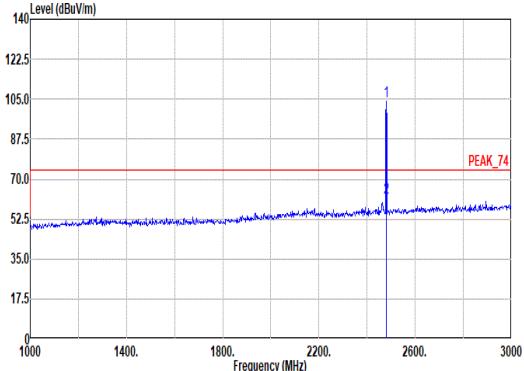
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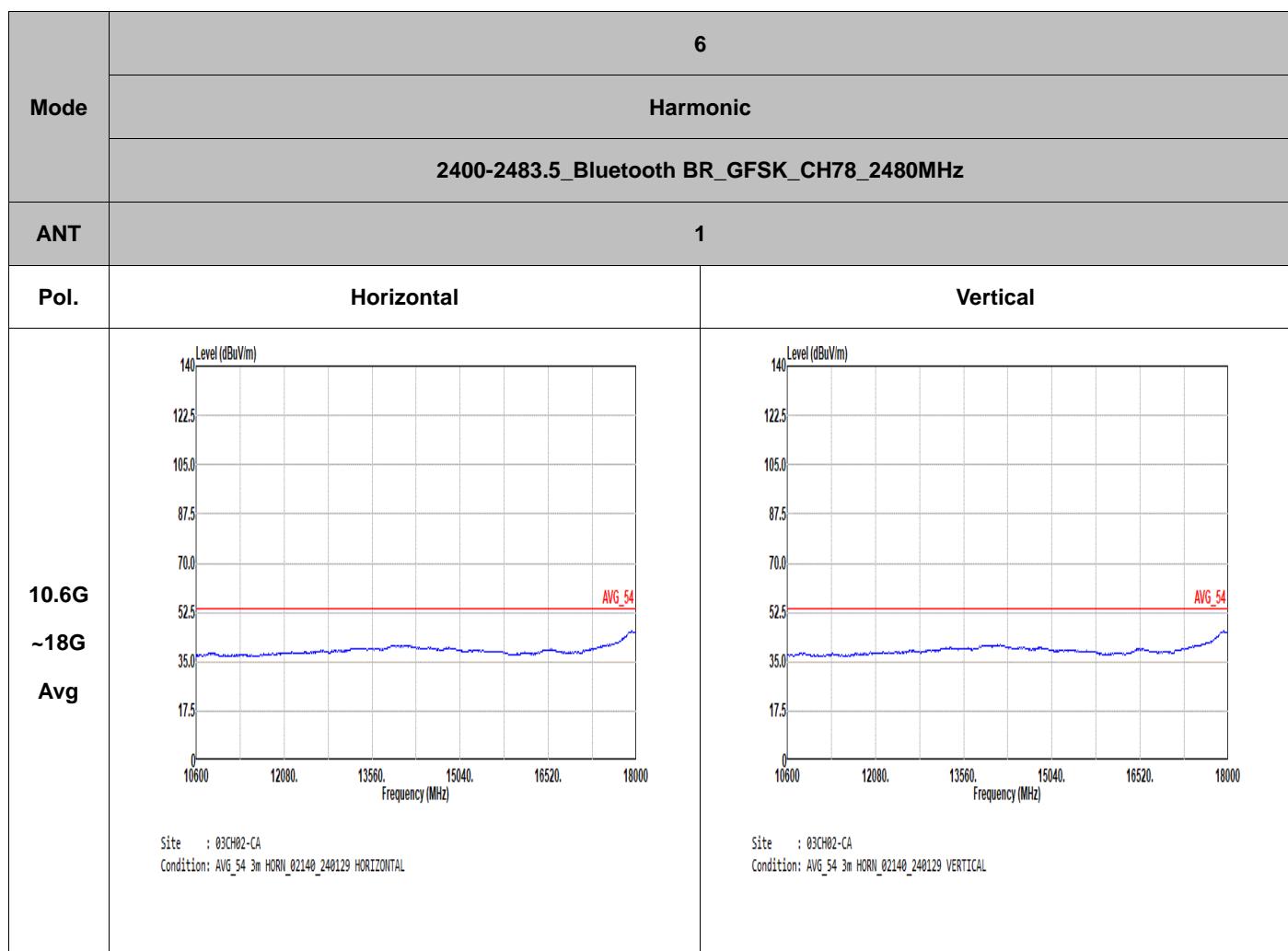
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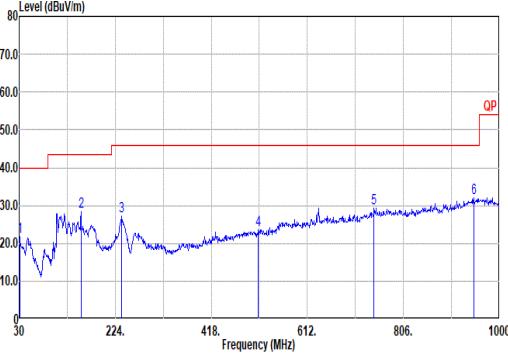
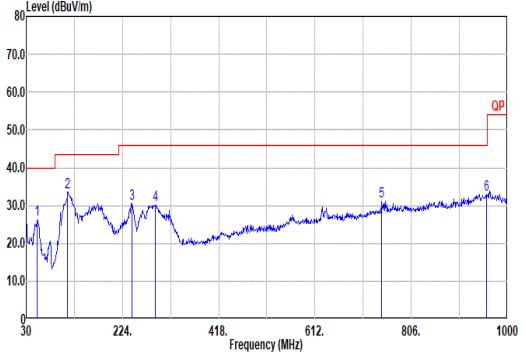
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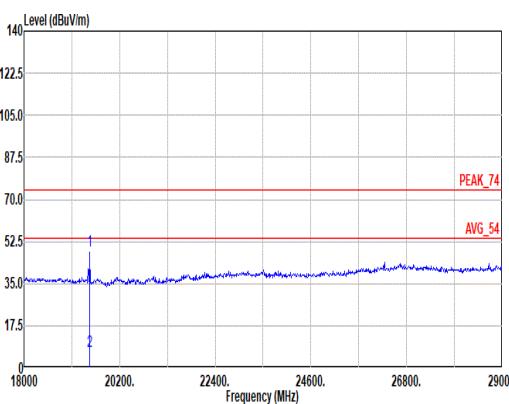
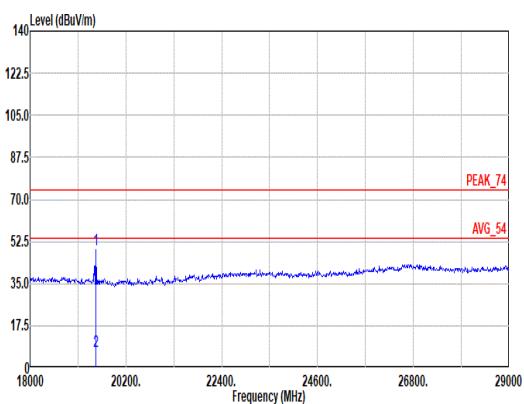
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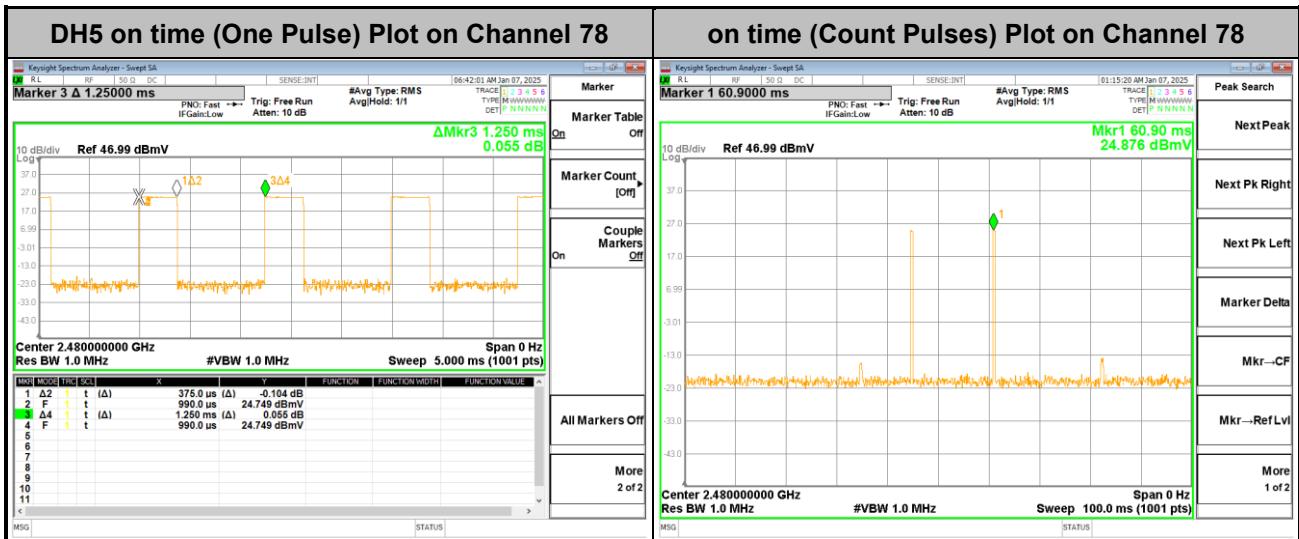


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	<p>Site : Condition: PEAK_74 1m SHF_HORN_00841_240807 HORIZONTAL</p> <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>19518.00</td><td>48.82</td><td>74.00</td><td>-25.18</td><td>50.10</td><td>37.82</td><td>24.45</td><td>54.01</td><td>-9.54</td></tr><tr><td>2</td><td>19518.00</td><td>6.66</td><td>54.00</td><td>-47.34</td><td>7.94</td><td>37.82</td><td>24.45</td><td>54.01</td><td>-9.54</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>199</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>278 Peak</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Average</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor			1	19518.00	48.82	74.00	-25.18	50.10	37.82	24.45	54.01	-9.54	2	19518.00	6.66	54.00	-47.34	7.94	37.82	24.45	54.01	-9.54										199										278 Peak										Average	<p>Site : Condition: PEAK_74 1m SHF_HORN_00841_240807 VERTICAL</p> <table><thead><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>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>19507.00</td><td>49.17</td><td>74.00</td><td>-24.83</td><td>50.54</td><td>37.73</td><td>24.45</td><td>54.01</td><td>-9.54</td></tr><tr><td>2</td><td>19507.00</td><td>7.01</td><td>54.00</td><td>-46.99</td><td>8.38</td><td>37.73</td><td>24.45</td><td>54.01</td><td>-9.54</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>100</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>153 Peak</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Average</td></tr></tbody></table>		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line Margin	Level	Factor	Loss	Factor	Factor			1	19507.00	49.17	74.00	-24.83	50.54	37.73	24.45	54.01	-9.54	2	19507.00	7.01	54.00	-46.99	8.38	37.73	24.45	54.01	-9.54										100										153 Peak									
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Appendix D. Duty Cycle Plots

<1Mbps>



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 0.375 / 100 = 0.75 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -42.50 \text{ dB}$
3. **DH5** has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$0.375 \text{ ms} \times 20 \text{ channels} = 7.5 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 7.5 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

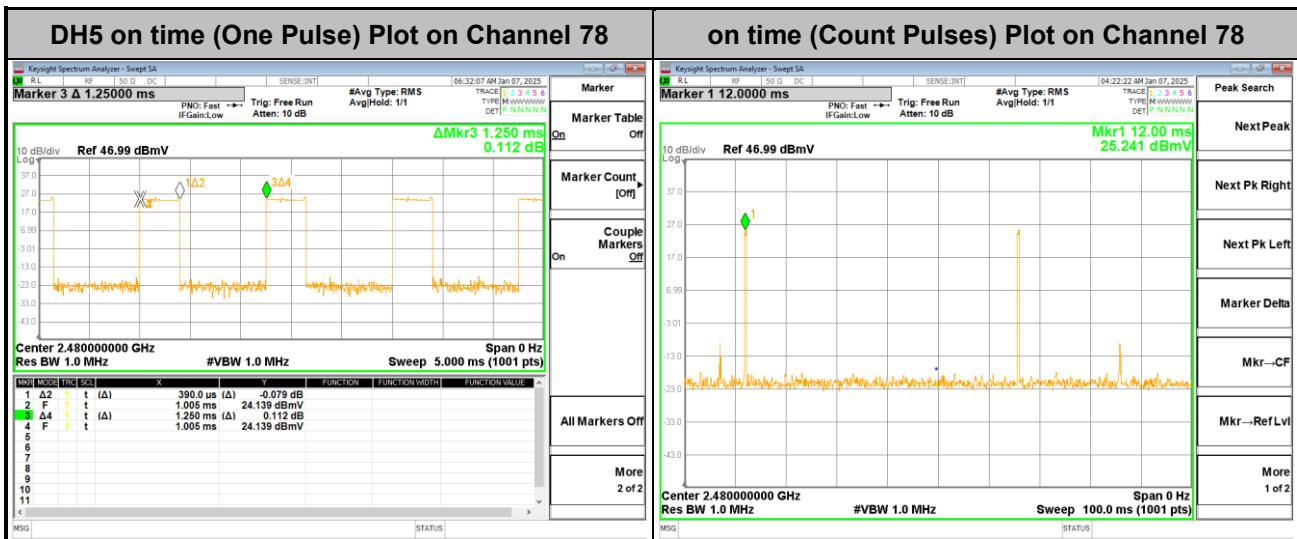
$$0.375 \text{ ms} \times 2 = 0.75 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(0.75 \text{ ms}/100 \text{ ms}) = -42.50 \text{ dB}$$



<2Mbps>

**Note:**

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 0.39 / 100 = 0.78 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -42.16 \text{ dB}$
3. **DH5** has the highest duty cycle worst case and is reported.

Duty Cycle Correction Factor Consideration for AFH mode:

Bluetooth normal hopping rate is 1600Hz and reduced to 800Hz in AFH mode; due to the reduced number of hopping frequencies, with the same packet configuration the dwell time in each channel frequency within 100msec period is longer in AFH mode than normal mode.

In AFH mode, the minimum hopping frequencies are 20, to get the longest dwell time DH5 packet is observed; the on time period to have DH5 packet completing one hopping sequence is

$$0.39 \text{ ms} \times 20 \text{ channels} = 7.8 \text{ ms}$$

There cannot be 2 complete hopping sequences within 100ms period, considering the random hopping behavior, maximum 2 hops can be possibly observed within the period. $[100 \text{ ms} / 7.8 \text{ ms}] = 2 \text{ hops}$

Thus, the maximum possible ON time:

$$0.39 \text{ ms} \times 2 = 0.78 \text{ ms}$$

Worst case Duty Cycle Correction factor, which is derived from the maximum possible ON time,

$$20 \times \log(0.78 \text{ ms}/100 \text{ ms}) = -42.16 \text{ dB}$$