FCC RADIO TEST REPORT

FCC ID	:	**2AYOA-4012**
Equipment	:	**AI GLASSES**
Brand Name	:	**Ray-Ban Meta or Ray-Ban**
Model Name	:	**RW7004, RW7004V, RW7005, RW7005V**
Applicant	:	**Luxottica Group S.p.A. Piazzale Cadorna 3 20123 Milan, Italy**
Manufacturer	:	**Luxottica Group S.p.A. Piazzale Cadorna 3 20123 Milan, Italy**
Standard	:	**FCC Part 15 Subpart C §15.247**

The product was received on May 26, 2026 and testing was performed from Jul. 06, 2026 to Aug. 15, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR652603A	01	Initial issue of report	Aug. 20, 2026

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.

Reviewed by: Avis Chuang

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Bluetooth, Bluetooth-LE **Antenna Type** Bluetooth: PIFA Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	4.0

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

Sample	Model Name
SKU1	RW7004, RW7004V
SKU2	RW7005, RW7005V
SKU3	RW7005, RW7005V

Remark:

1. SKU1 is different from the other SKUs in the design of the frames, lenses, and sizes.
2. The only difference between SKU2 and SKU3 is the size: SKU2 is Medium and SKU3 is Large.
3. Except for the above, all SKUs share the same antenna, RF circuitry, and PCB layout.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

The test location is accredited based on TAF code 1190 and 3786 designated by NCC (National Communication Commission).

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW1190 and TW3786

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

1.4 Applicable Standards

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

- FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 414788 D01 Radiated Test Site v01r01
- FCC Part 15 Subpart C §15.247
- ANSI C63.10-2020 + Cor.1-2023

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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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.

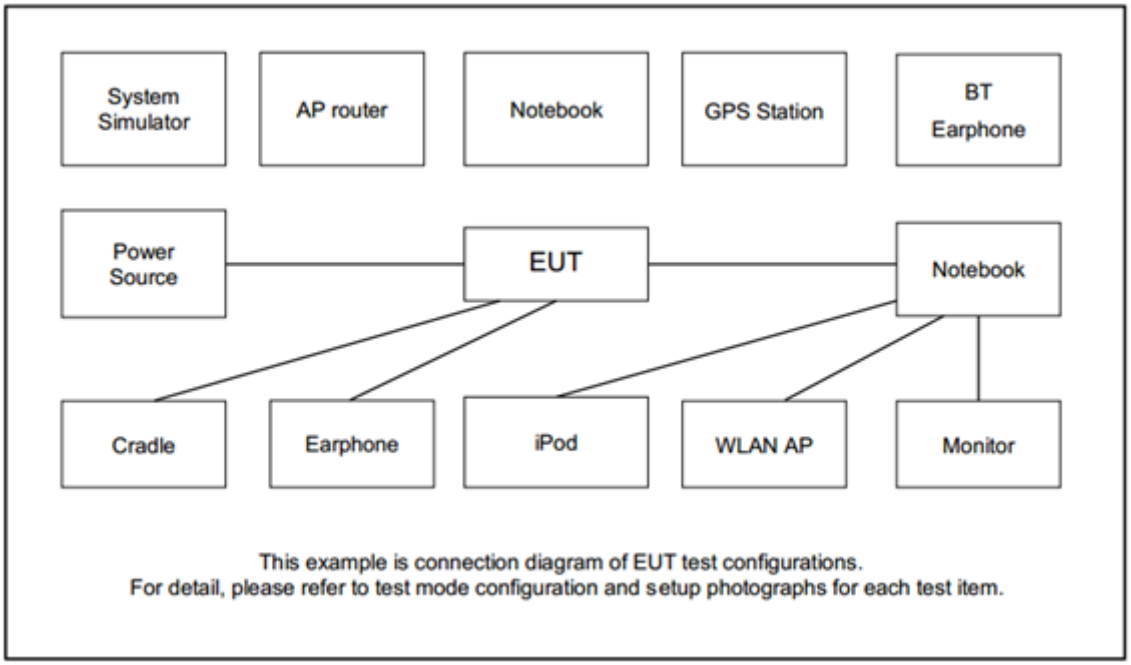
b. AC power line Conducted Emission was tested under maximum output power.

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 π/4-DQPSK**	**Bluetooth EDR 3Mbps 8-DPSK**
	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz
	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz
	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz
AC Conducted Emission	Mode 1 :Bluetooth Link + Charging from Charging case (USB Cable with Adapter) + SKU1		

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	Lenovo	ideapad Gaming	PD9AX201NG	N/A	AC I/P：Unshielded, 1.2m DC O/P：Shielded, 1.8m
2.	Mobile Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “BlueTest3” 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 (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.

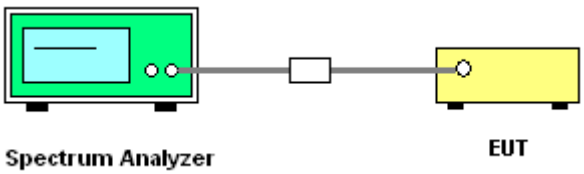
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

1. The testing follows ANSI C63.10 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 ≥ RBW; Sweep = No faster than coupled (auto) time; 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.

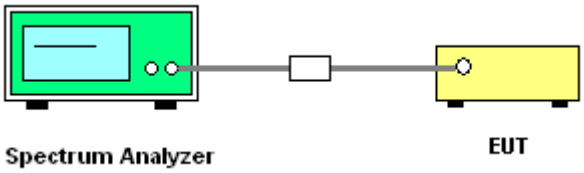
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows ANSI C63.10 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 ≥ RBW; Sweep = No faster than coupled (auto) time; 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.

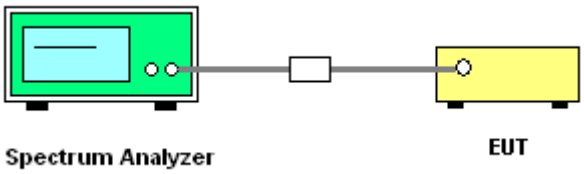
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows ANSI C63.10 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 ≥ 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

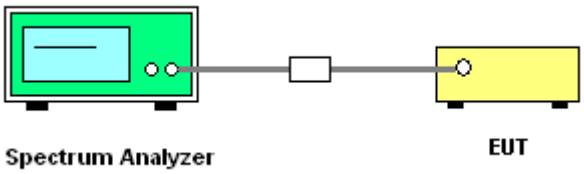
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10 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 ≥ 1% of the 20 dB bandwidth, VBW ≥ 3 * 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 ≥ 1-5% of the 99% bandwidth, VBW ≥ 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.

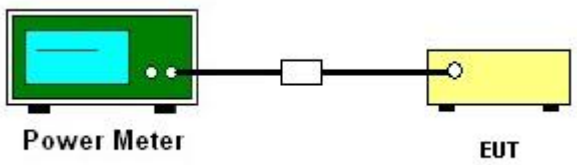
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. The testing follows ANSI C63.10 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.

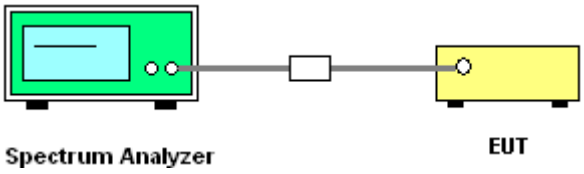
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The testing follows ANSI C63.10 clause 6.10.
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.

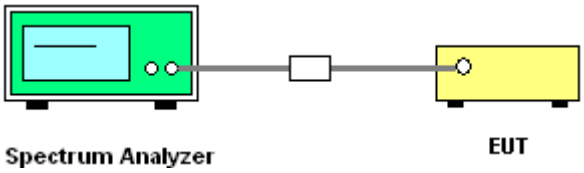
3.7.2 Measuring Instruments

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

3.7.3 Test Procedure

1. The testing follows ANSI C63.10 clause 7.8.7.
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.

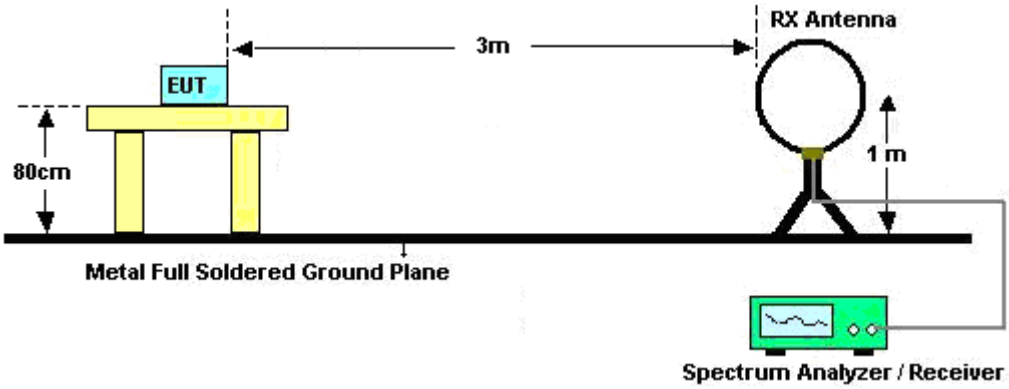
3.8.3 Test Procedures

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 ≥ 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 = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$
   Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
   Average Emission Level = Peak Emission Level + 20*log (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 "-".

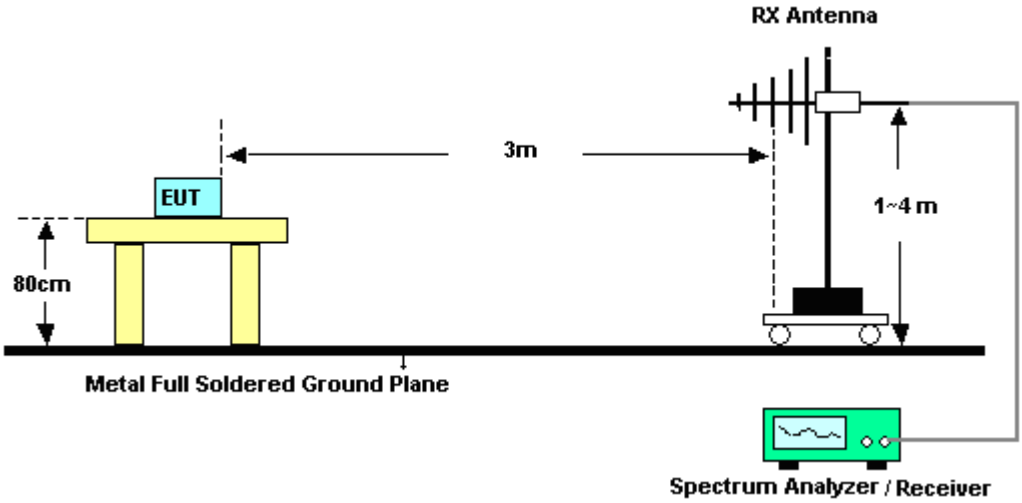
Note: The average levels are calculated from the peak level corrected with duty cycle correction factor (-24.73dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

3.8.4 Test Setup

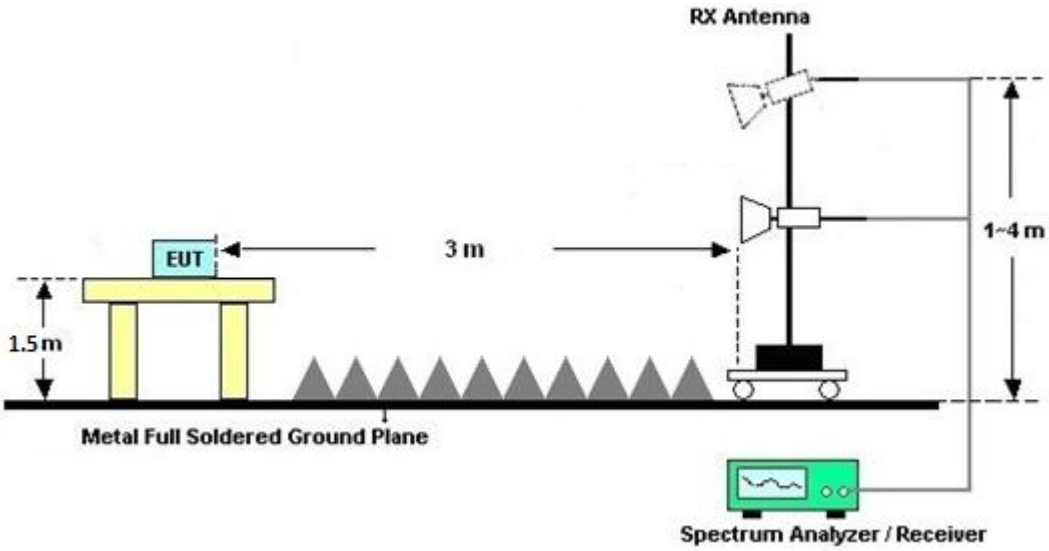
For radiated test below 30MHz



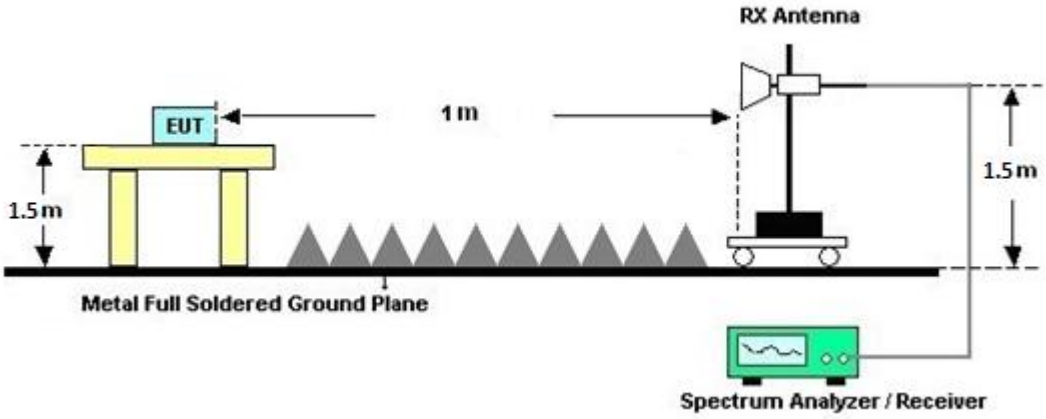
For radiated test from 30MHz to 1GHz



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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

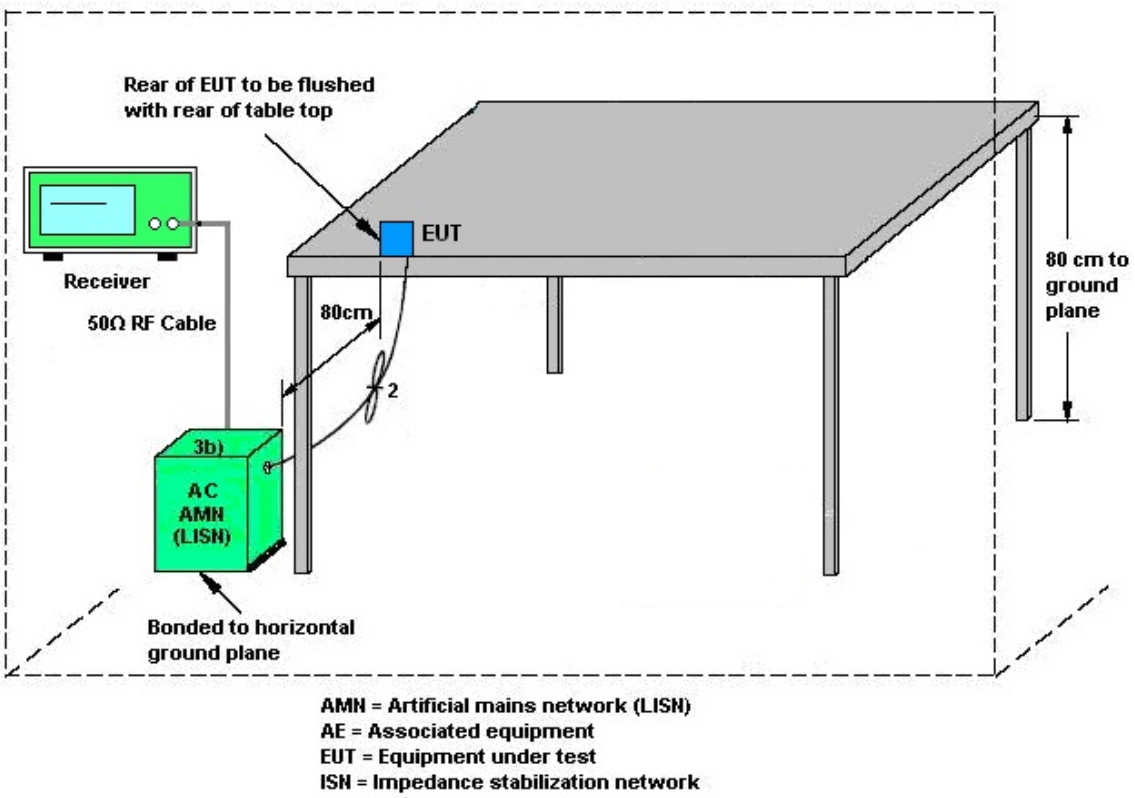
3.9.2 Measuring Instruments

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

Unique (non-standard) antenna connector.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Jul. 14, 2026~ Aug. 15, 2026	Dec. 10, 2026	Radiation (03CH23-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D-06	62028 & 003	30MHz~1GHz	Nov. 26, 2025	Jul. 14, 2026~ Aug. 15, 2026	Nov. 25, 2026	Radiation (03CH23-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 18, 2025	Jul. 14, 2026~ Aug. 15, 2026	Dec. 17, 2026	Radiation (03CH23-HY)
Amplifier	EMEC	EM01G18GA	060878	1GHz~18GHz	Sep. 26, 2025	Jul. 14, 2026~ Aug. 15, 2026	Sep. 25, 2026	Radiation (03CH23-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	KV2D06A18ES	1GHz~18GHz	Nov. 05, 2025	Jul. 14, 2026~ Aug. 15, 2026	Nov. 04, 2026	Radiation (03CH23-HY)
Signal Analyzer	Keysight	N9010B	MY62170337	10Hz~44GHz	Aug. 26, 2025	Jul. 14, 2026~ Aug. 15, 2026	Aug. 25, 2026	Radiation (03CH23-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jul. 14, 2026~ Aug. 15, 2026	Aug. 25, 2026	Radiation (03CH23-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz~40GHz	Nov. 28, 2025	Jul. 14, 2026~ Aug. 15, 2026	Nov. 27, 2026	Radiation (03CH23-HY)
Hygrometer	TECPEL	DTM-303A	TP210001	N/A	Nov. 06, 2025	Jul. 14, 2026~ Aug. 15, 2026	Nov. 05, 2026	Radiation (03CH23-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jul. 14, 2026~ Aug. 15, 2026	N/A	Radiation (03CH23-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 14, 2026~ Aug. 15, 2026	N/A	Radiation (03CH23-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 14, 2026~ Aug. 15, 2026	N/A	Radiation (03CH23-HY)
Software	Audix	E3 6.09824_2019122	RK-002348	N/A	N/A	Jul. 14, 2026~ Aug. 15, 2026	N/A	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	805139/2	9kHz~30MHz	Mar. 04, 2026	Jul. 14, 2026~ Aug. 15, 2026	Mar. 03, 2027	Radiation (03CH23-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804395/2	30MHz~40GHz	Nov. 25, 2025	Jul. 14, 2026~ Aug. 15, 2026	Nov. 24, 2026	Radiation (03CH23-HY)
RF Cable	EMC	EMC101Y	231115/231119/25104238	30MHz~40GHz	May 11, 2026	Jul. 14, 2026~ Aug. 15, 2026	May 10, 2027	Radiation (03CH23-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 06, 2026~ Jul. 30, 2026	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	N/A	Dec. 16, 2025	Jul. 06, 2026~ Jul. 30, 2026	Dec. 15, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP210031	N/A	Jun. 15, 2026	Jul. 06, 2026~ Jul. 30, 2026	Jun. 14, 2027	Conduction (CO05-HY)
Two-Line V-Network	Rohde & Schwarz	ENV 216 +EMCI-EXP-US-US S	100080+N-021	N/A	Apr. 22, 2026	Jul. 06, 2026~ Jul. 30, 2026	Apr. 21, 2027	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jul. 06, 2026~ Jul. 30, 2026	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	N/A	Jul. 29, 2025	Jul. 06, 2026~ Jul. 30, 2026	Jul. 28, 2026	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00373	N/A	Oct. 20, 2025	Jul. 06, 2026~ Jul. 30, 2026	Oct. 19, 2026	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	MQT24082501	N/A	Oct. 14, 2025	Jul. 06, 2026~ Jul. 30, 2026	Oct. 13, 2026	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jul. 08. 2026~ Jul. 31. 2026	Nov. 03, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 29, 2025	Jul. 08. 2026~ Jul. 31. 2026	Aug. 28, 2026	Conducted (TH05-HY)
USB RF Power Sensor	DARE	RPR3006W	17I00015SNO37 (NO:167)	10MHz~6GHz	Nov. 14, 2025	Jul. 08. 2026~ Jul. 31. 2026	Nov. 13, 2026	Conducted (TH05-HY)
Switch Control Mainframe	EM Electronics	EMSW18SE	SW191204 (BOX8)	N/A	Dec. 29, 2025	Jul. 08. 2026~ Jul. 31. 2026	Dec. 28, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jul. 08. 2026~ Jul. 31. 2026	N/A	Conducted (TH05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.7 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.2 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.7 dB

A1. Conducted Test Results

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2026/7/8~2026/7/31	Relative Humidity:	51~54	%

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Willy Chang	Temperature:	21~25	°C
Test Date:	2026/7/8~2026/7/31	Relative Humidity:	51~54	%

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	0.896	0.836	0.986	0.5976	Pass
DH	1Mbps	1	39	2441	0.905	0.837	0.999	0.6030	Pass
DH	1Mbps	1	78	2480	0.908	0.863	0.990	0.6050	Pass
2DH	2Mbps	1	0	2402	1.315	1.182	0.999	0.8768	Pass
2DH	2Mbps	1	39	2441	1.321	1.181	1.003	0.8806	Pass
2DH	2Mbps	1	78	2480	1.317	1.181	1.003	0.8780	Pass
3DH	3Mbps	1	0	2402	1.306	1.181	0.990	0.8704	Pass
3DH	3Mbps	1	39	2441	1.306	1.180	1.012	0.8708	Pass
3DH	3Mbps	1	78	2480	1.305	1.181	1.007	0.8700	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
3DH5	79	106.670	2.91	0.31	0.4	Pass
3DH5 (AFH)	20	53.330	2.91	0.15	0.4	Pass

TEST RESULTS DATA
Peak Power Table

DH	CH.	NTX	Peak Power (dBm)	Power Limit (dBm)	Test Result
DH5	0	1	**9.99**	20.97	Pass
	39	1	9.79	20.97	Pass
	78	1	9.97	20.97	Pass
2DH5	0	1	**9.04**	20.97	Pass
	39	1	8.55	20.97	Pass
	78	1	8.71	20.97	Pass
3DH5	0	1	**9.47**	20.97	Pass
	39	1	8.92	20.97	Pass
	78	1	8.97	20.97	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

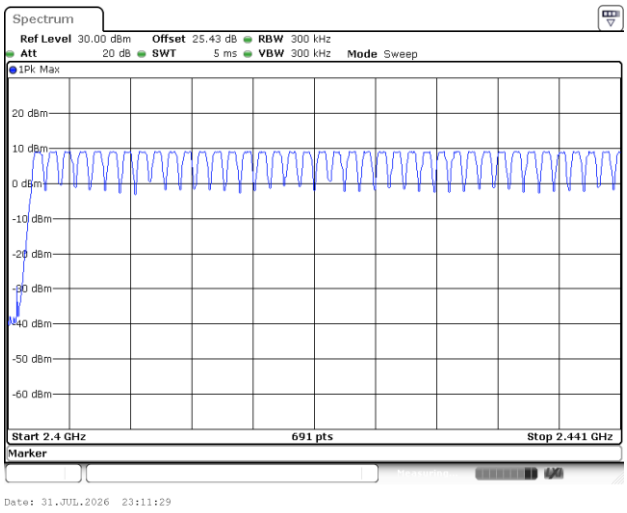
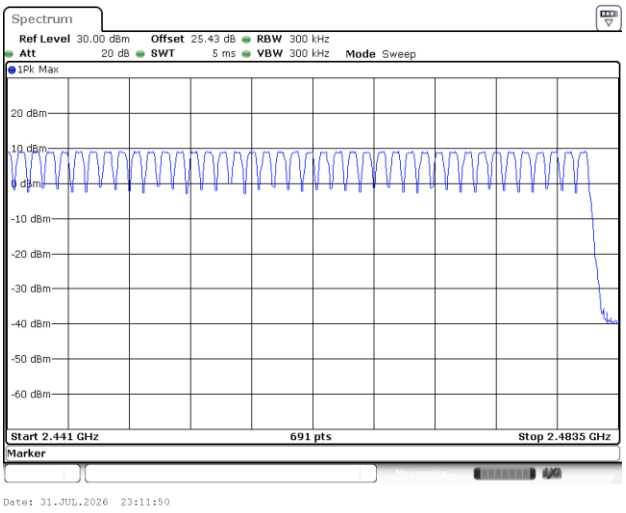
DH	CH.	NTX	Average Power (dBm)	Duty Factor (dB)	Setting
DH5	0	1	**9.15**	1.12	6.00
	39	1	8.82	1.12	
	78	1	8.95	1.12	
2DH5	0	1	**5.99**	1.12	6.00
	39	1	5.61	1.12	
	78	1	5.63	1.12	
3DH5	0	1	**6.01**	1.11	6.00
	39	1	5.63	1.11	
	78	1	5.66	1.11	

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

<1Mbps>

Number of Hopping Channel Plot	
Channel 00 - 39	**Channel 39 - 78**
	

Hopping Channel Separation

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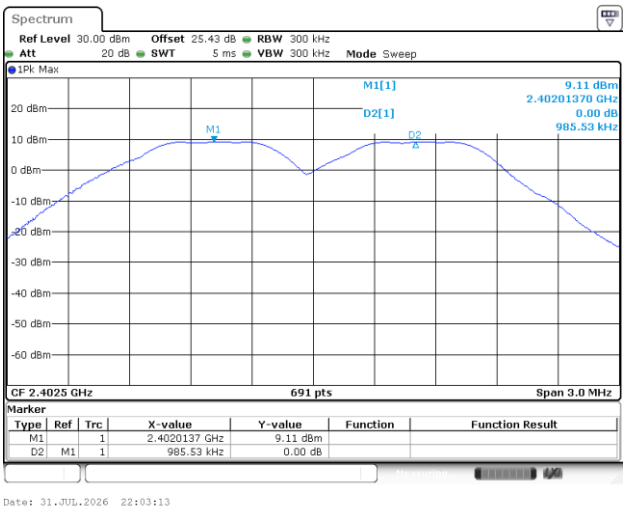
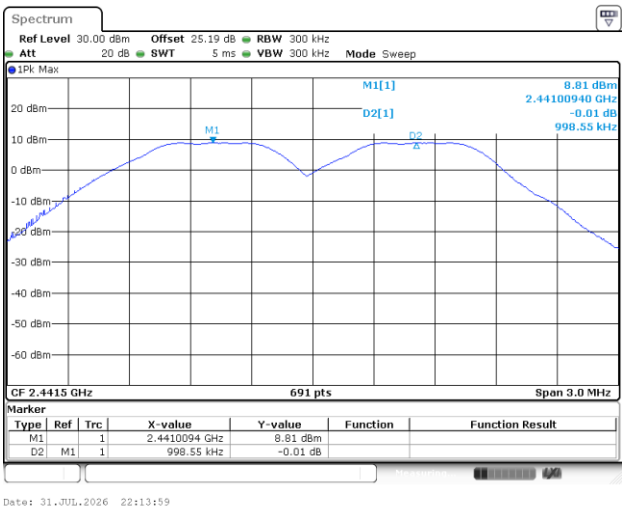
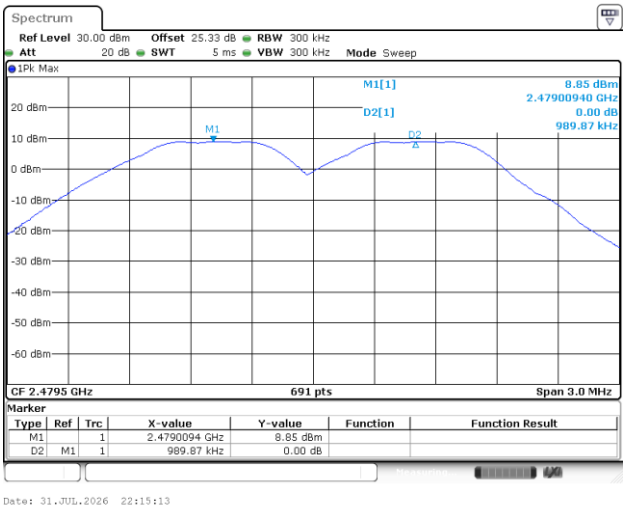
Channel Separation Plot on Channel 00 - 01



Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



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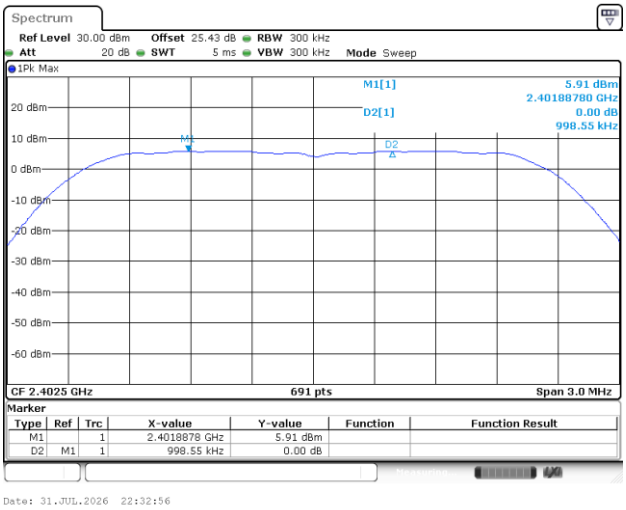
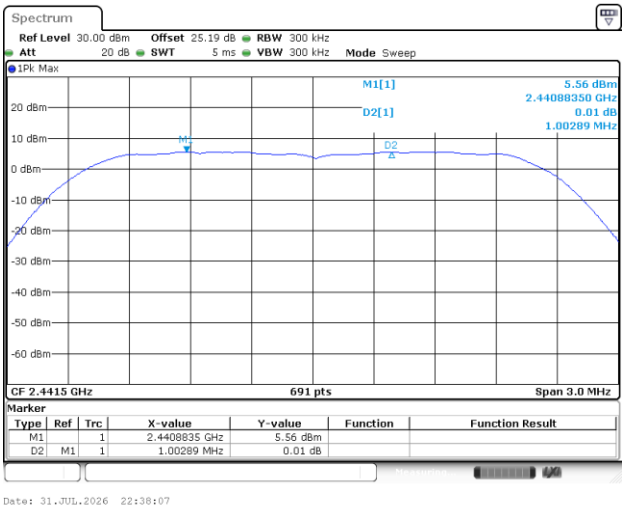
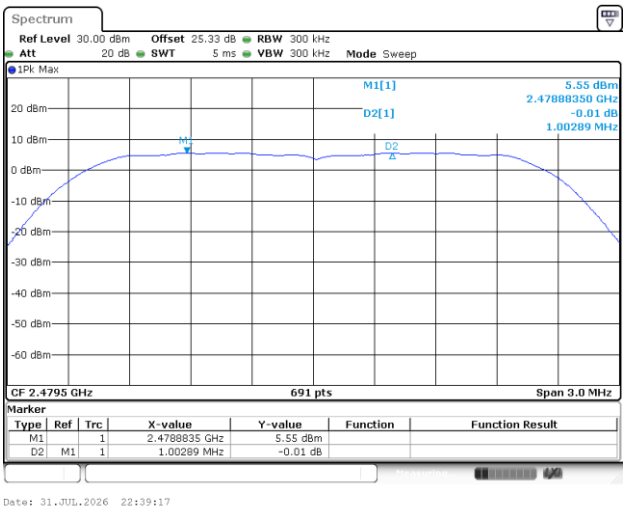
Channel Separation Plot on Channel 00 - 01



Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



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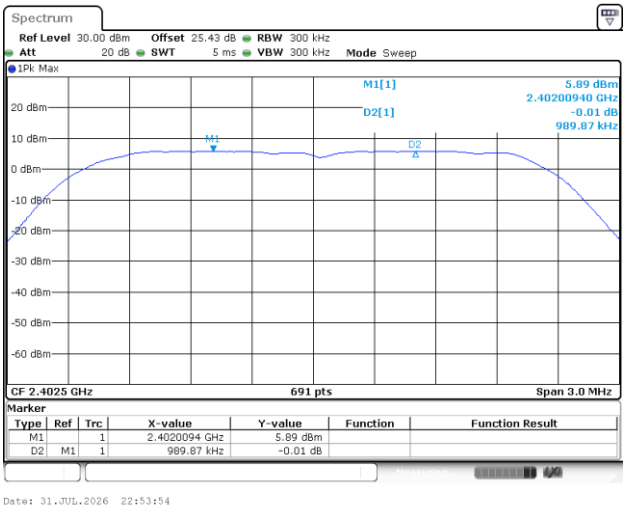
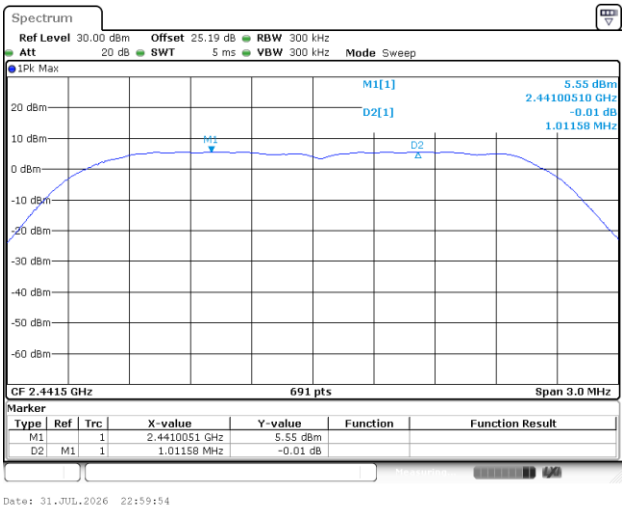
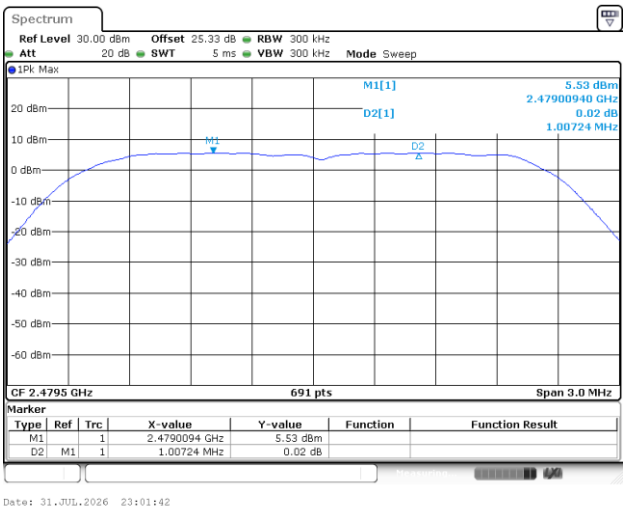
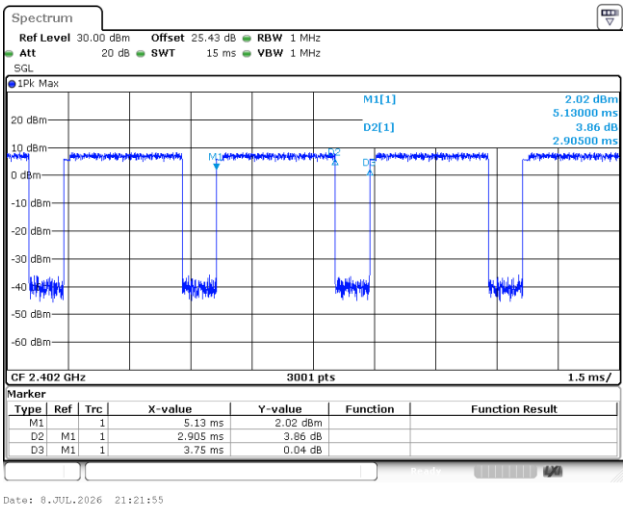
Channel Separation Plot on Channel 00 - 01	Channel Separation Plot on Channel 39 - 40
	
Channel Separation Plot on Channel 77 - 78	
	

Dwell Time

Package Transfer Time Plot



Remark:

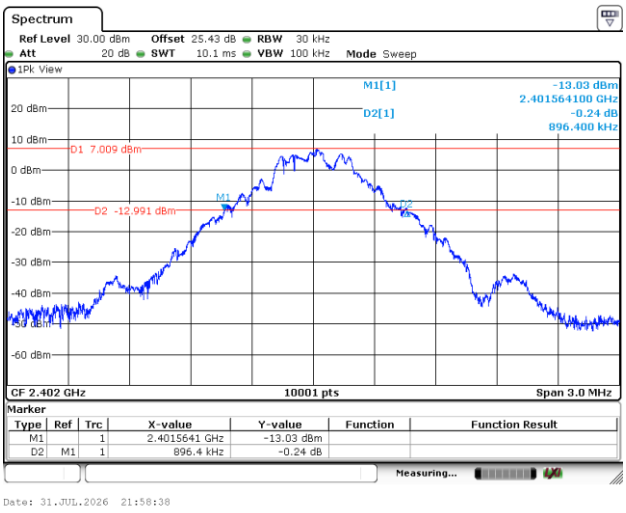
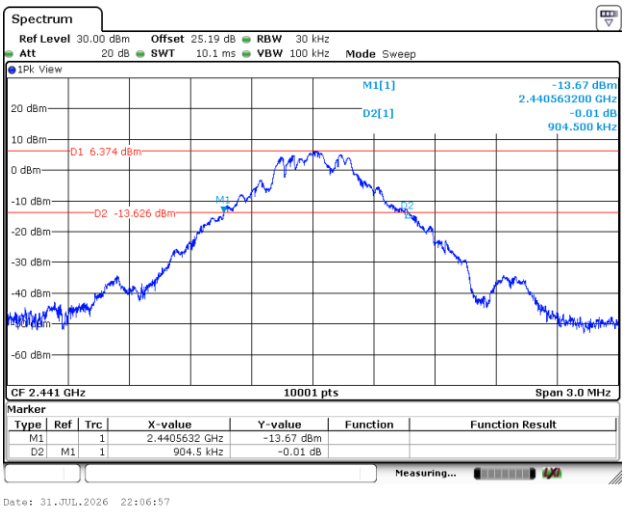
1 In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s),Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.

2 In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.

3 Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

20dB Bandwidth

<1Mbps>

20 dB Bandwidth Plot in Channel 00	20 dB Bandwidth Plot in Channel 39
	
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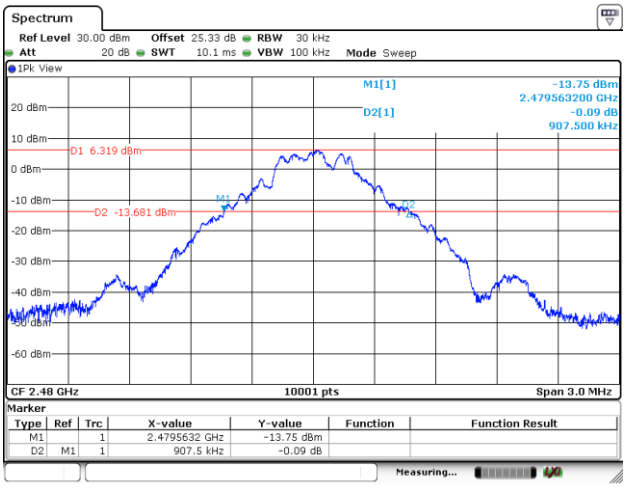
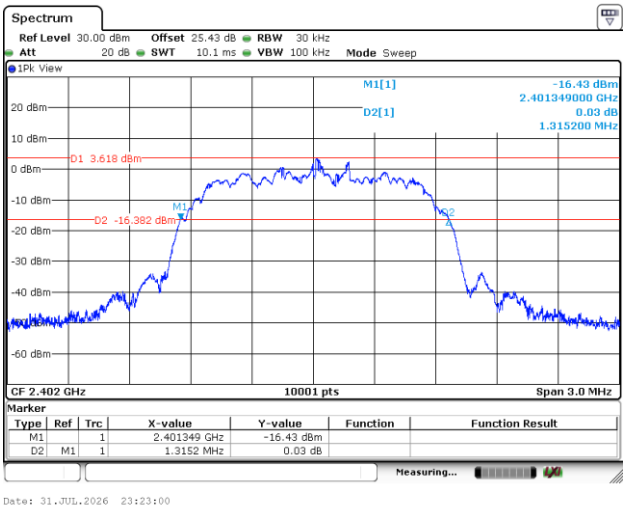
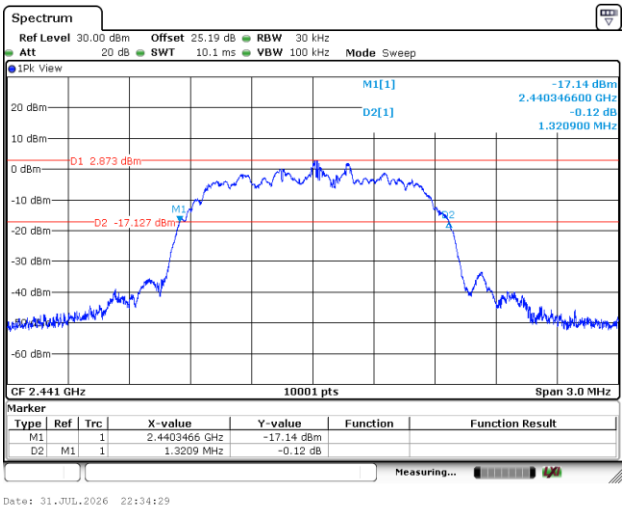
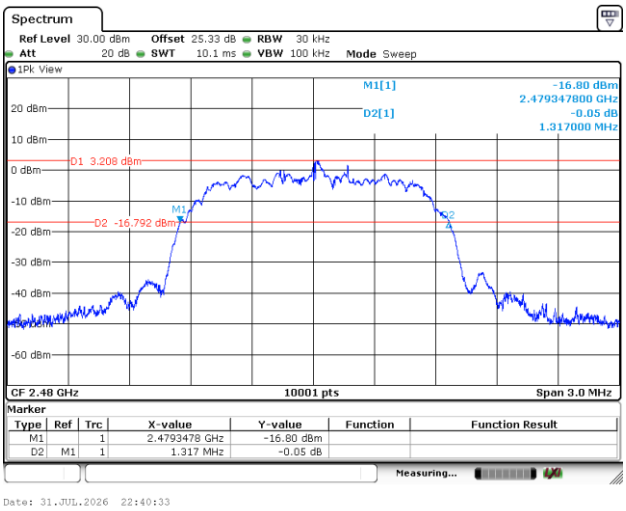
	

<2Mbps>

20 dB Bandwidth Plot in Channel 00	20 dB Bandwidth Plot in Channel 39
	
20 dB Bandwidth Plot in Channel 78	
	

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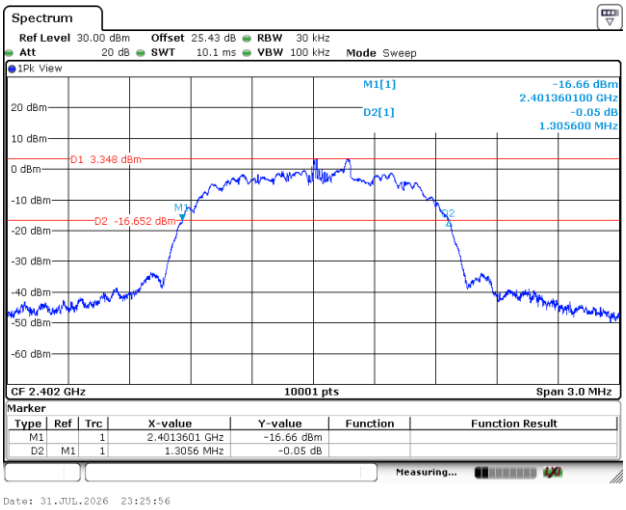
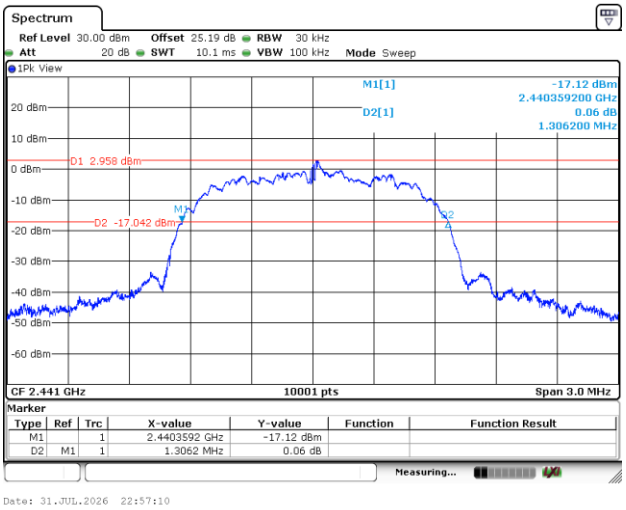
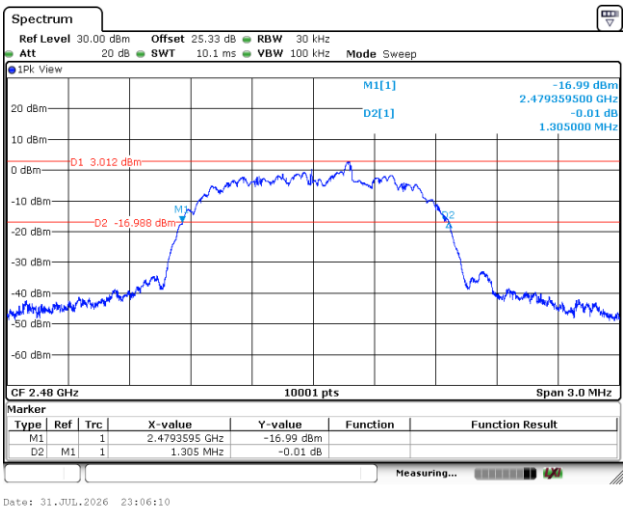
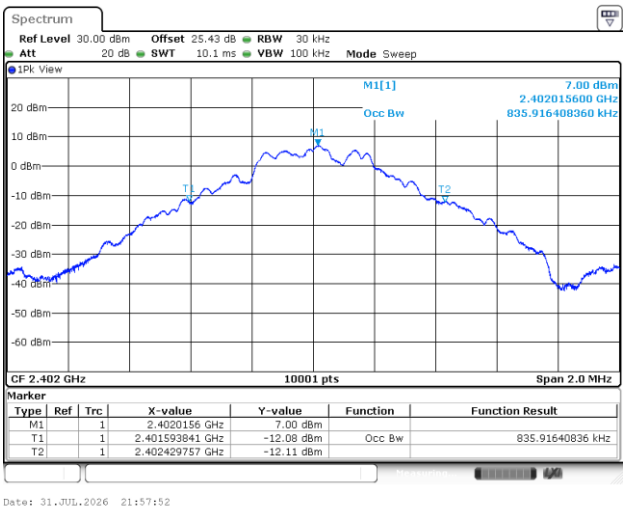
20 dB Bandwidth Plot in Channel 00	20 dB Bandwidth Plot in Channel 39
	
20 dB Bandwidth Plot in Channel 78	
	

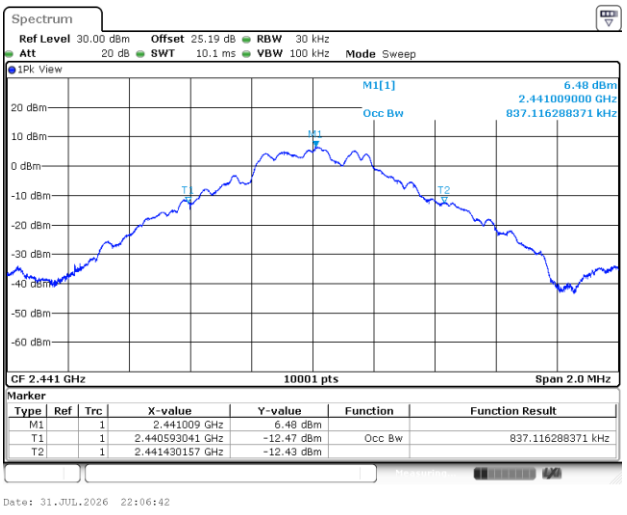
99% Occupied Bandwidth

<1Mbps>

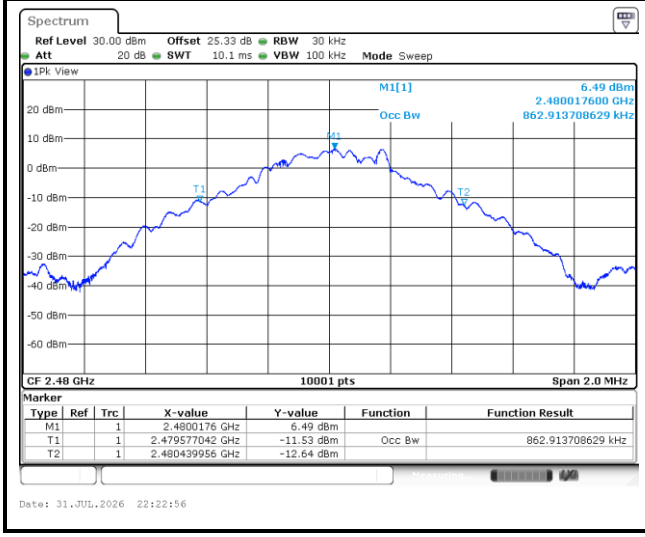
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



99% Occupied Bandwidth on Channel 78



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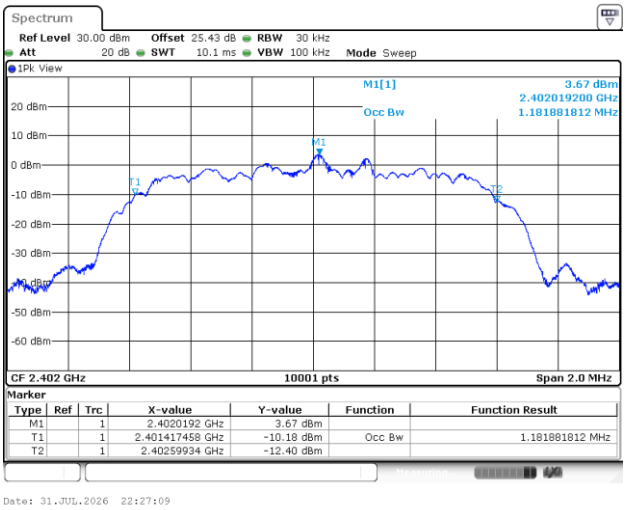
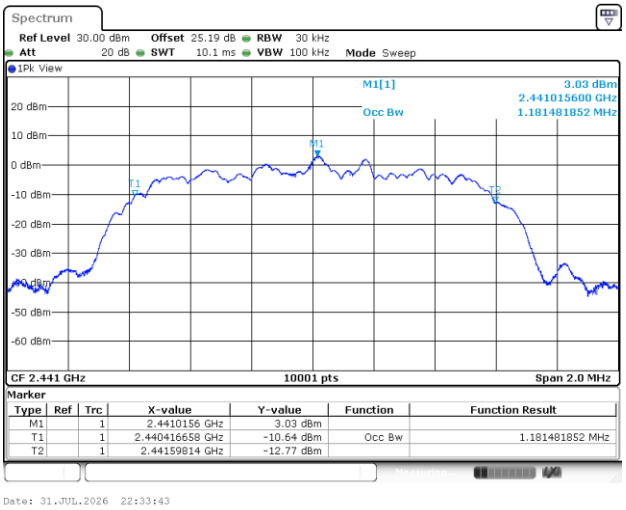
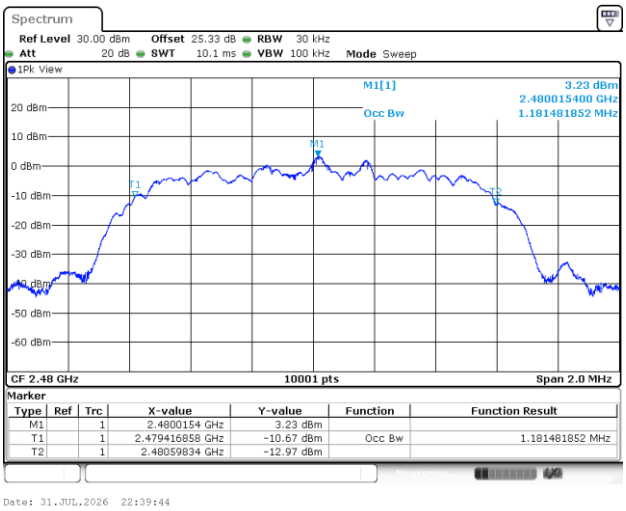
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



99% Occupied Bandwidth on Channel 78



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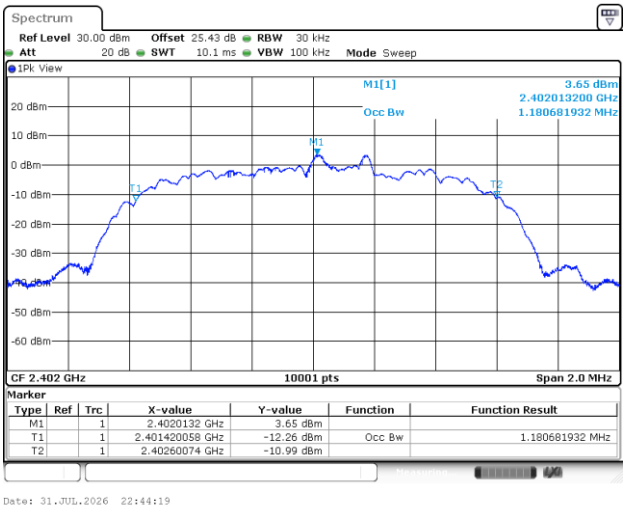
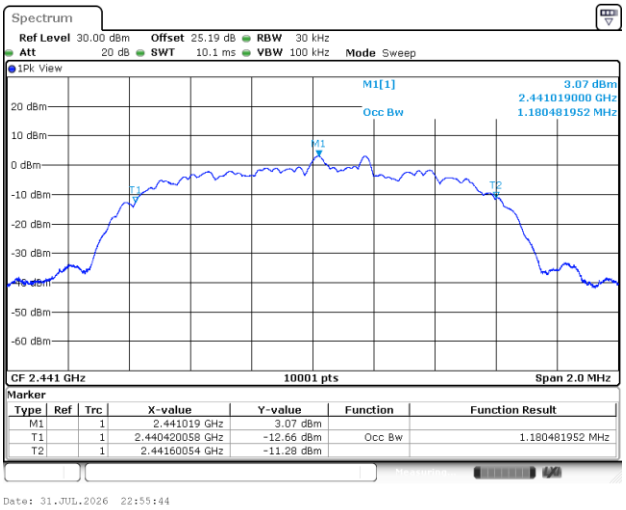
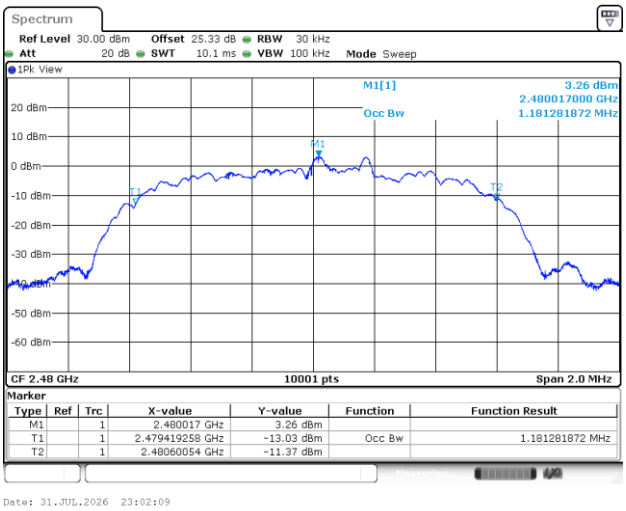
99% Occupied Bandwidth on Channel 00



99% Occupied Bandwidth on Channel 39



99% Occupied Bandwidth on Channel 78



Band Edges

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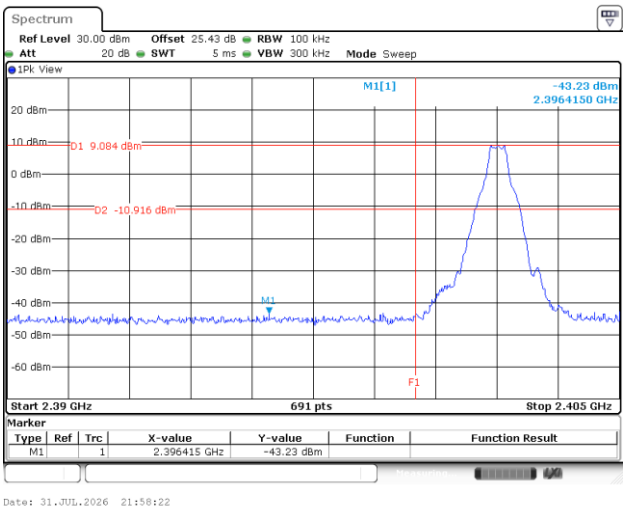
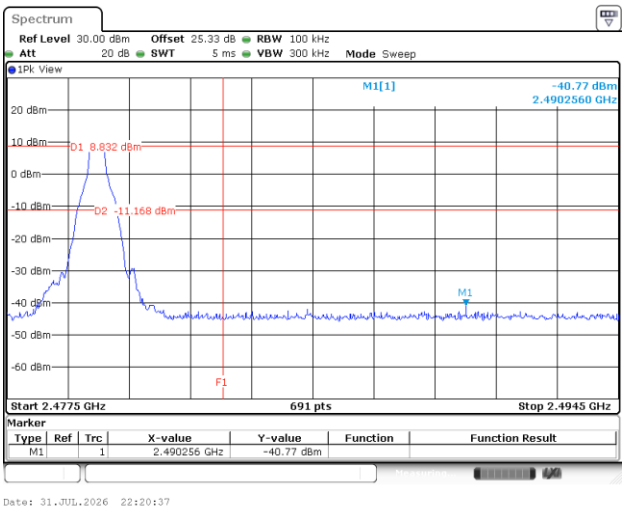
Band Edge Plot on Channel 00	Band Edge Plot on Channel 78
	

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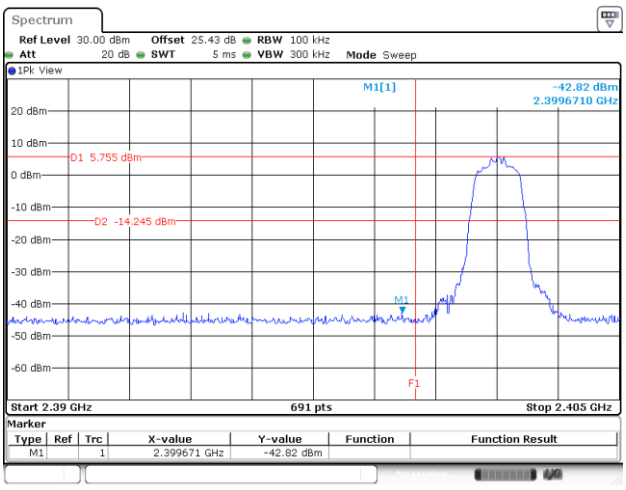
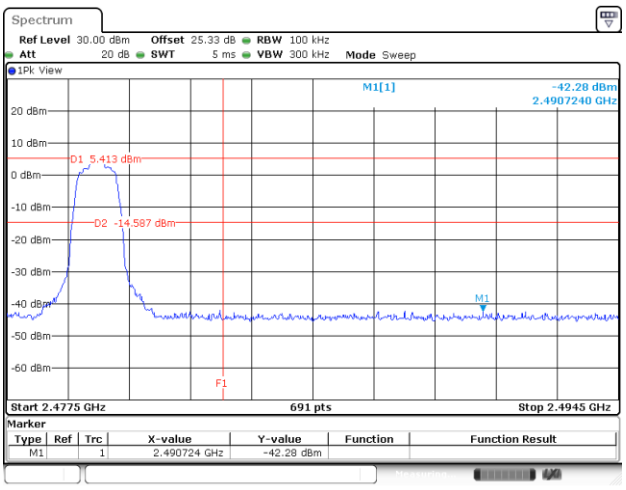
Band Edge Plot on Channel 00	Band Edge Plot on Channel 78
	

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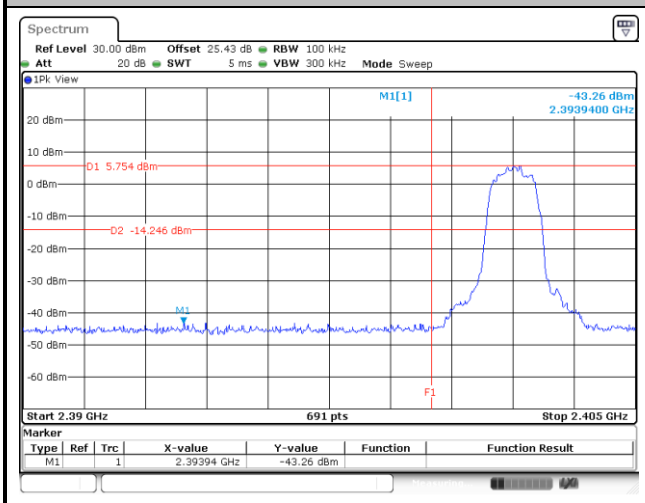
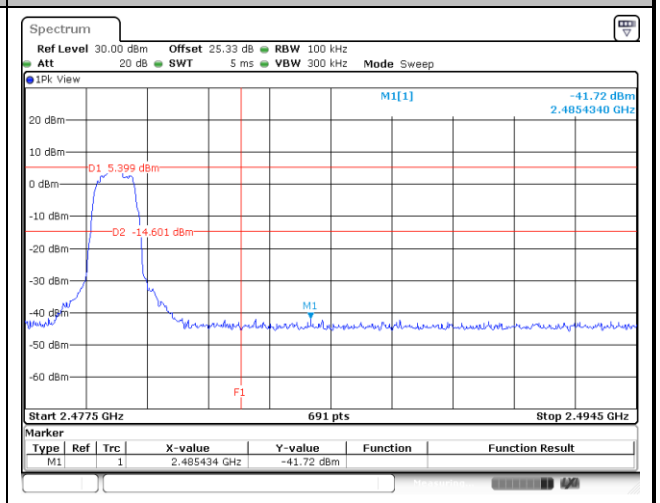
Band Edge Plot on Channel 00	Band Edge Plot on Channel 78
	

Hopping Mode Band Edges

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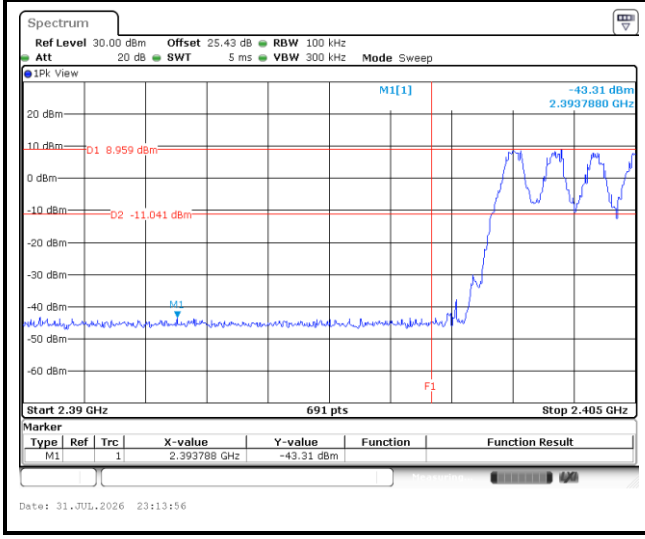
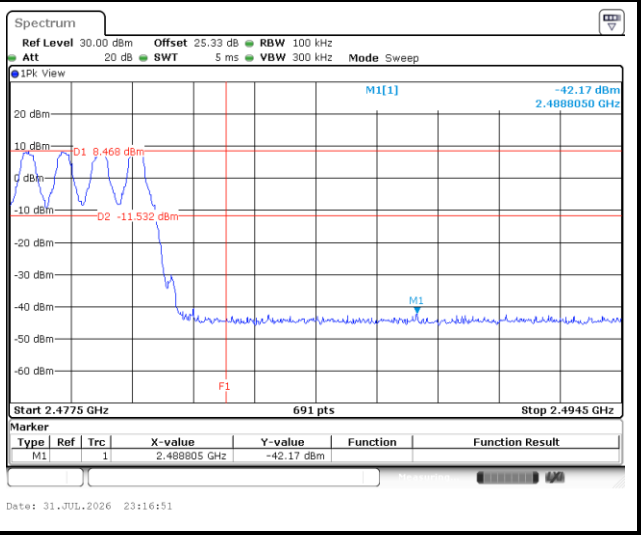
Hopping Mode Band Edge Plot on Channel 00	Hopping Mode Band Edge Plot on Channel 78
	

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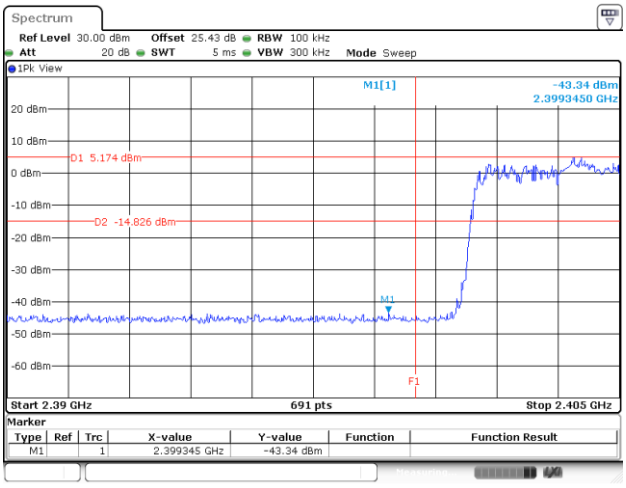
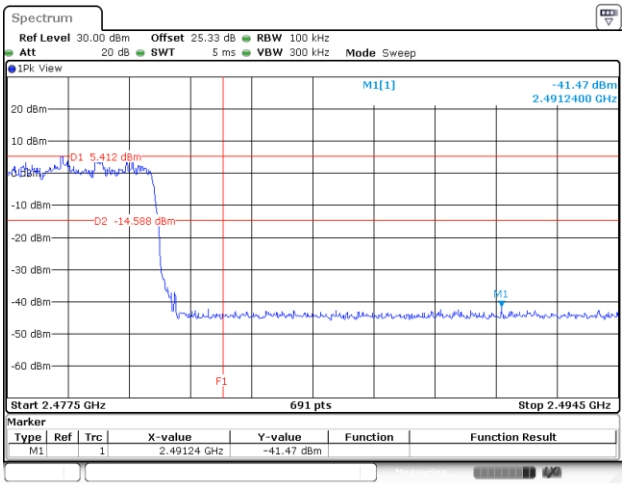
Hopping Mode Band Edge Plot on Channel 00	Hopping Mode Band Edge Plot on Channel 78
	

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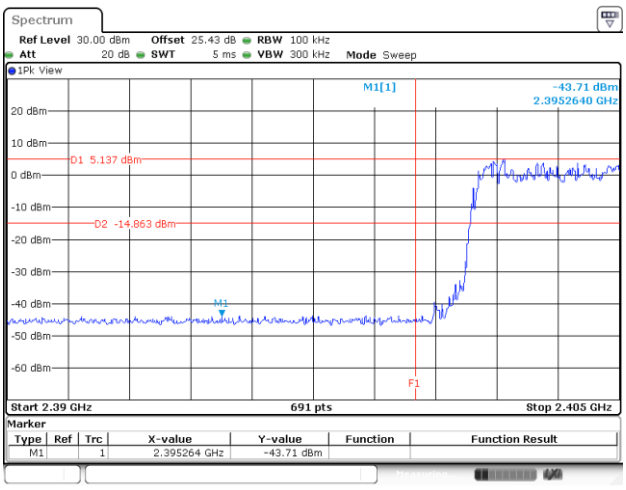
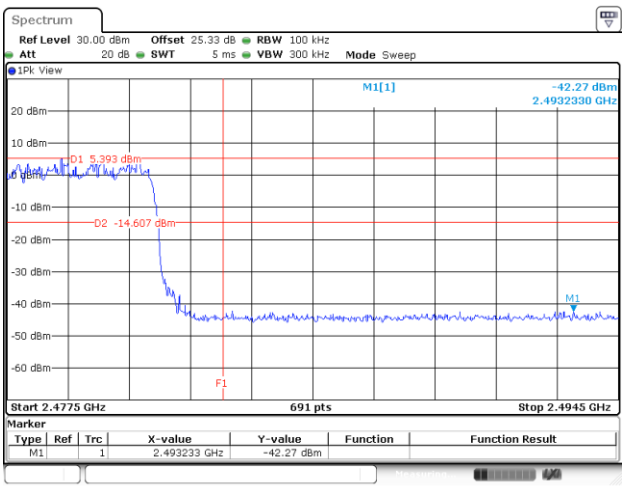
Hopping Mode Band Edge Plot on Channel 00	Hopping Mode Band Edge Plot on Channel 78
	

Conducted Spurious Emission

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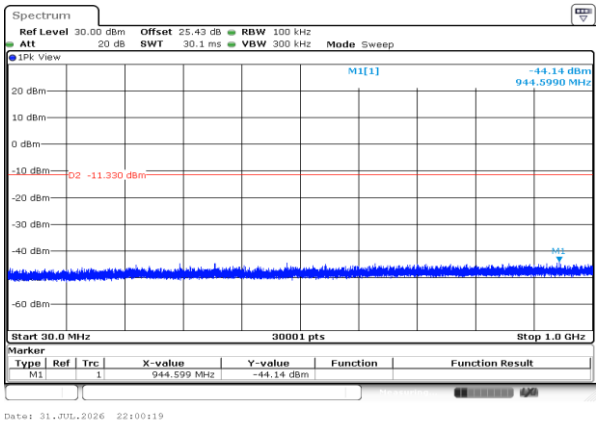
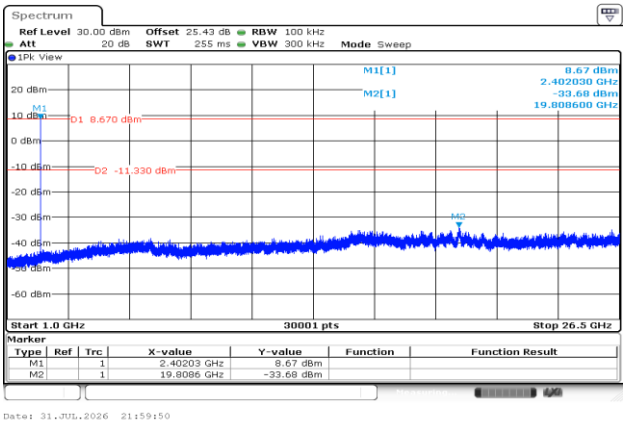
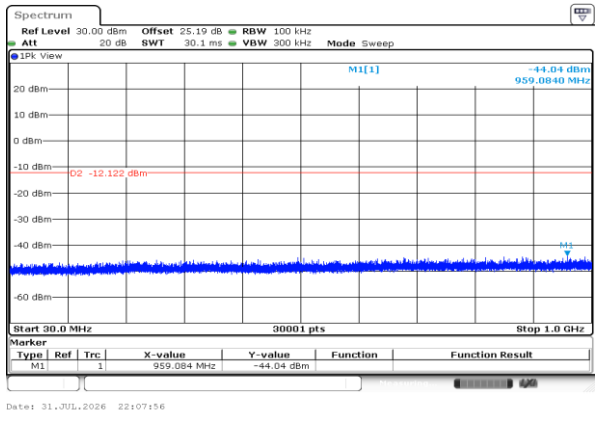
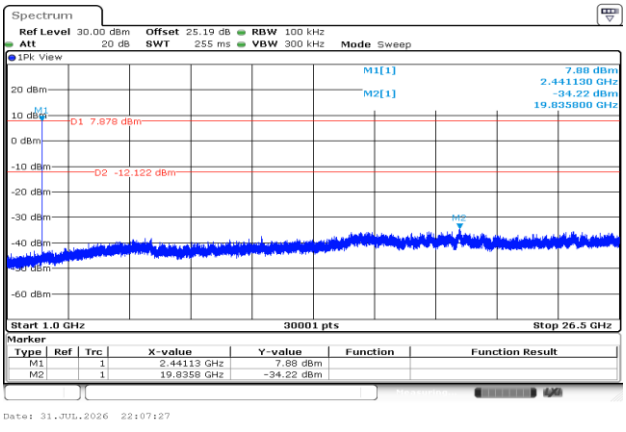
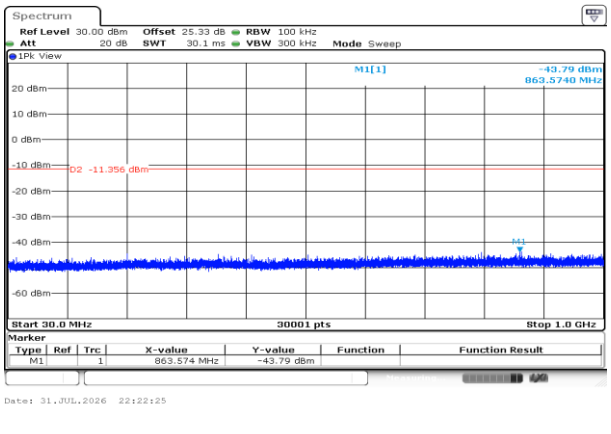
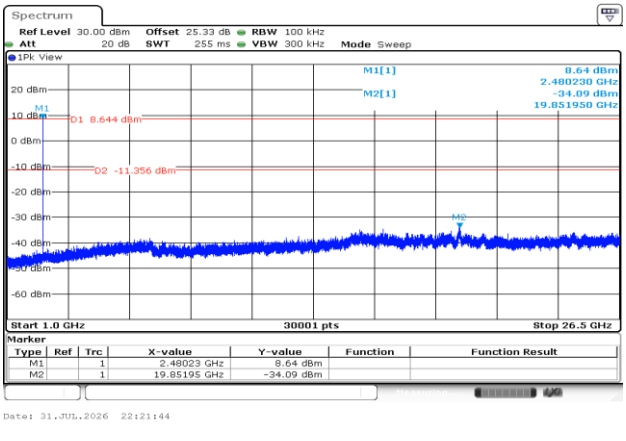
CSE Plot on Low Ch between 30MHz ~ 1 GHz	CSE Plot on Low Ch between 1GHz ~ 26.5GHz
	
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz	**CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz**
	
CSE Plot on High Ch between 30MHz ~ 1 GHz	**CSE Plot on High Ch between 1GHz ~ 26.5GHz**
	

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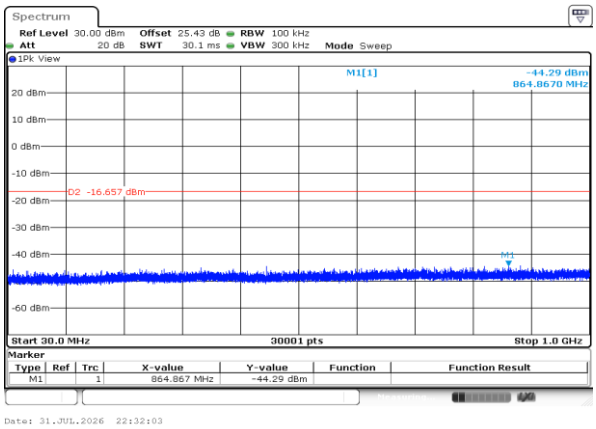
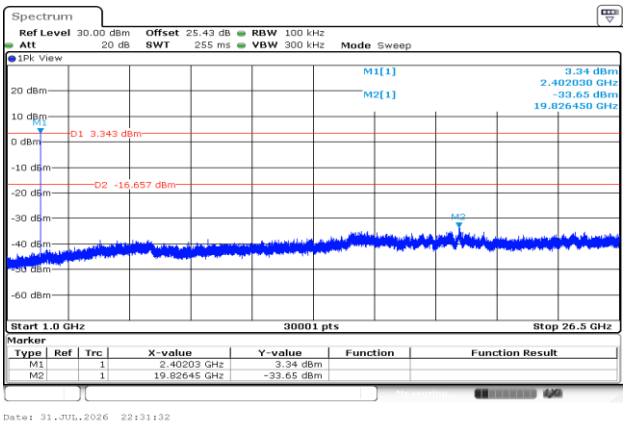
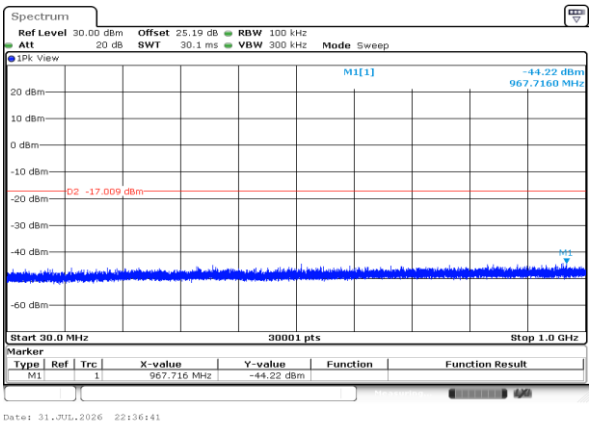
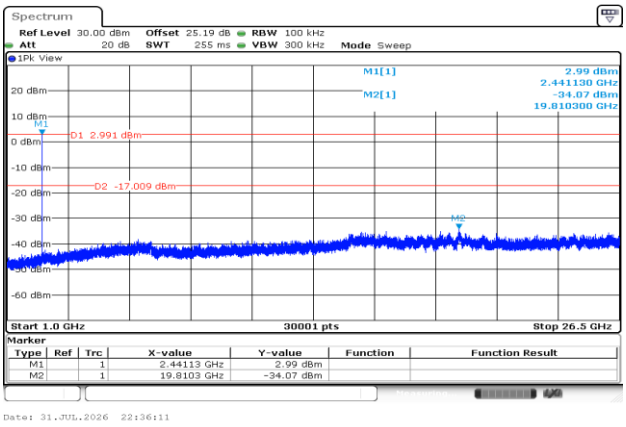
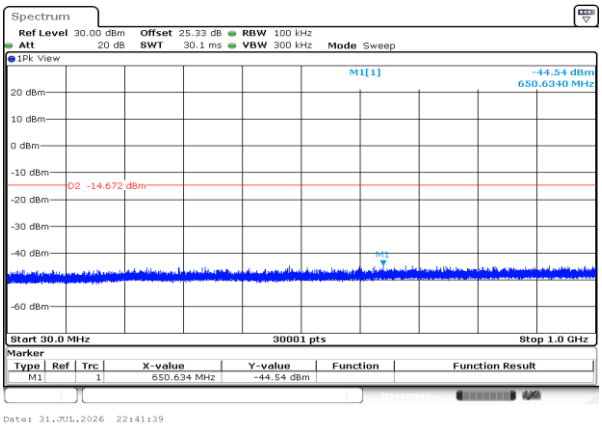
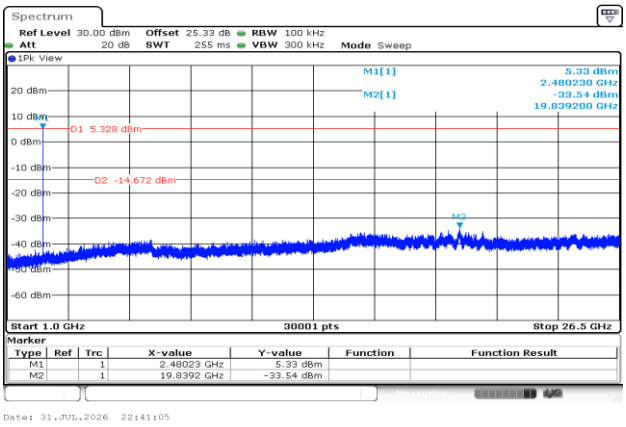
CSE Plot on Low Ch between 30MHz ~ 1 GHz	CSE Plot on Low Ch between 1GHz ~ 26.5GHz
	
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz	**CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz**
	
CSE Plot on High Ch between 30MHz ~ 1 GHz	**CSE Plot on High Ch between 1GHz ~ 26.5GHz**
	

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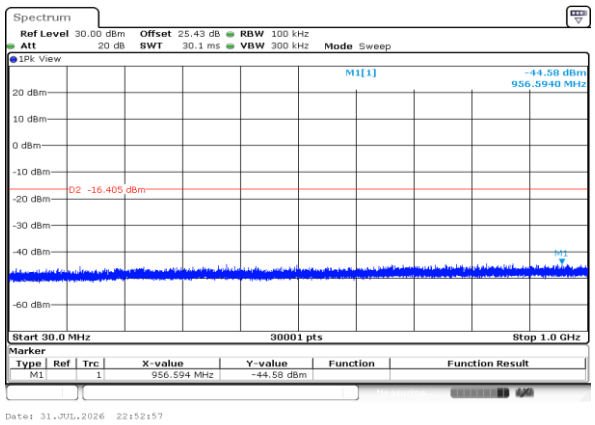
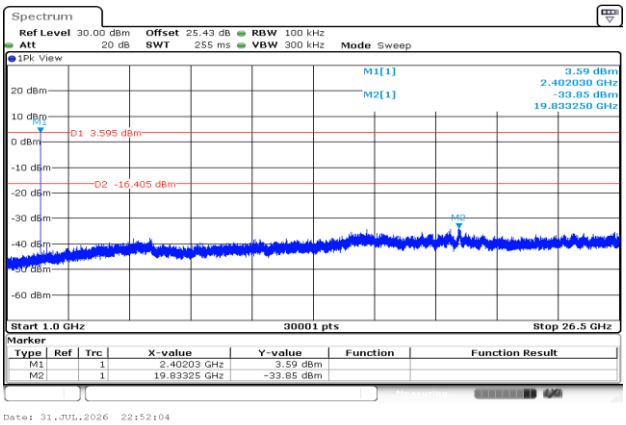
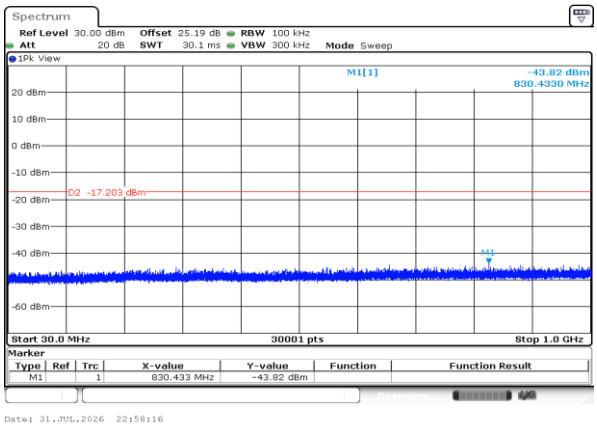
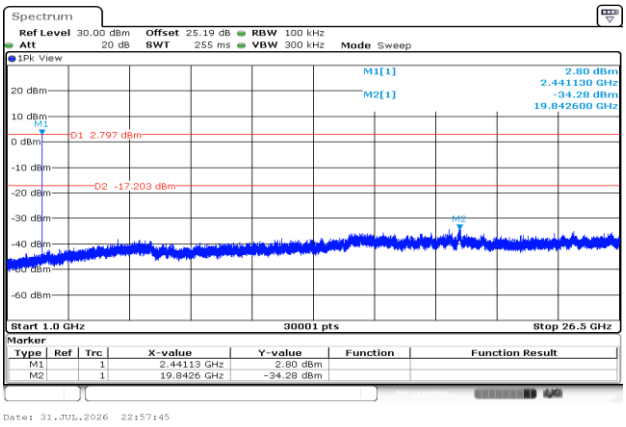
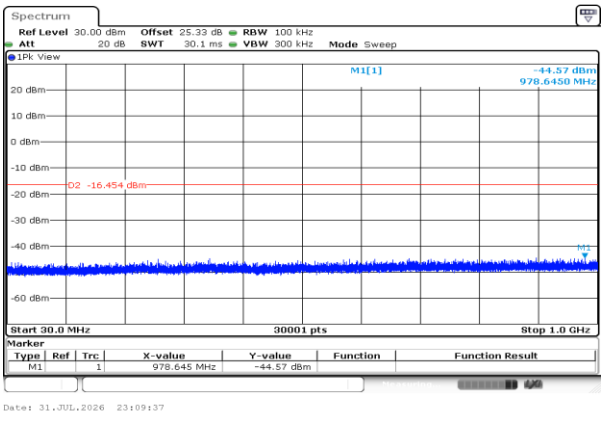
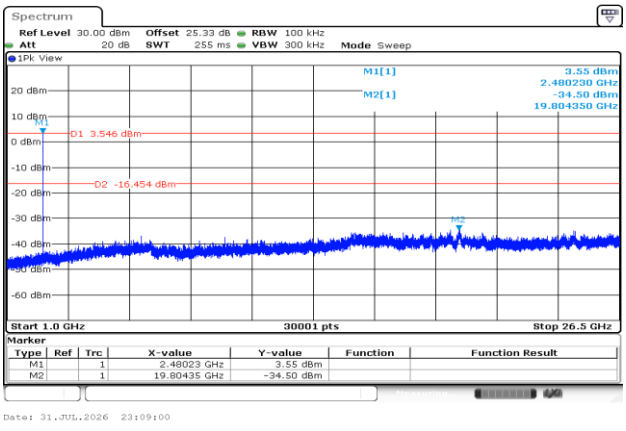
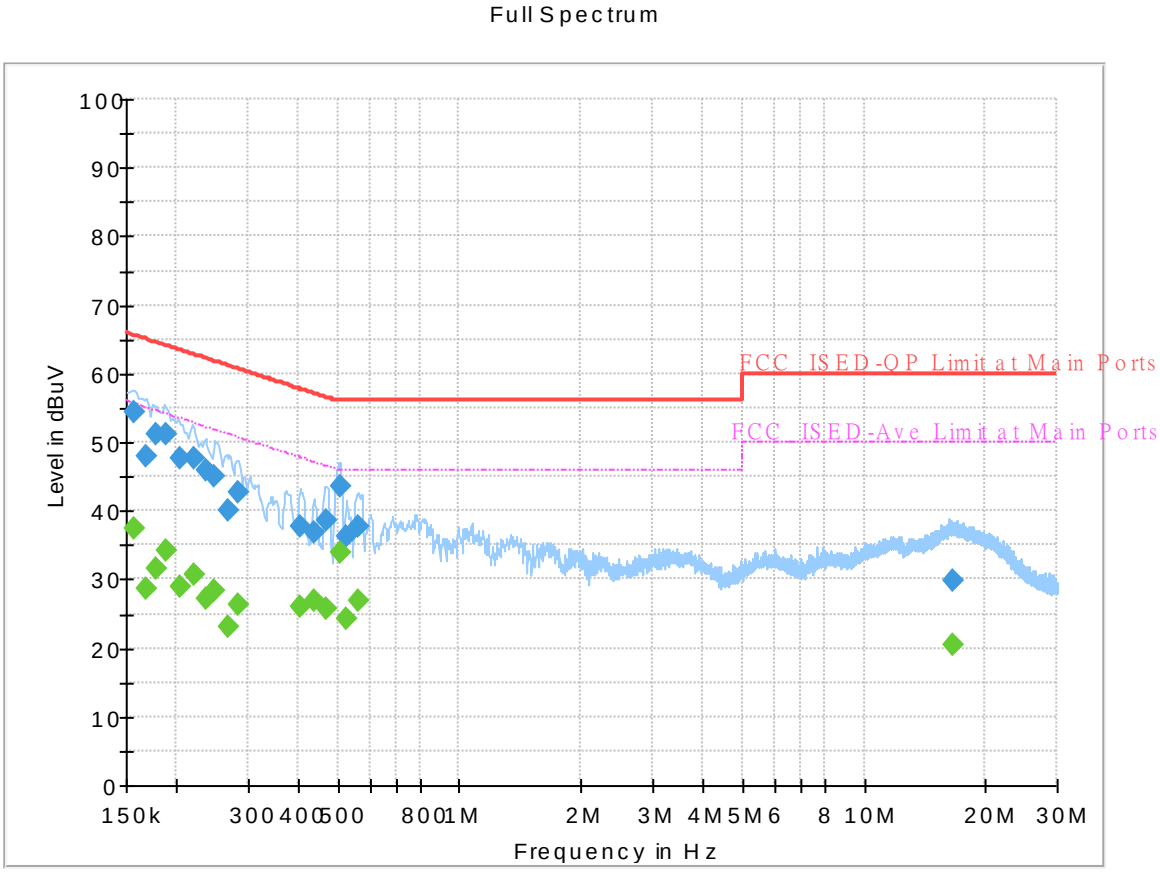
CSE Plot on Low Ch between 30MHz ~ 1 GHz	CSE Plot on Low Ch between 1GHz ~ 26.5GHz
	
CSE Plot on Mid. Ch between 30MHz ~ 1 GHz	**CSE Plot on Mid. Ch between 1GHz ~ 26.5GHz**
	
CSE Plot on High Ch between 30MHz ~ 1 GHz	**CSE Plot on High Ch between 1GHz ~ 26.5GHz**
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	652603
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



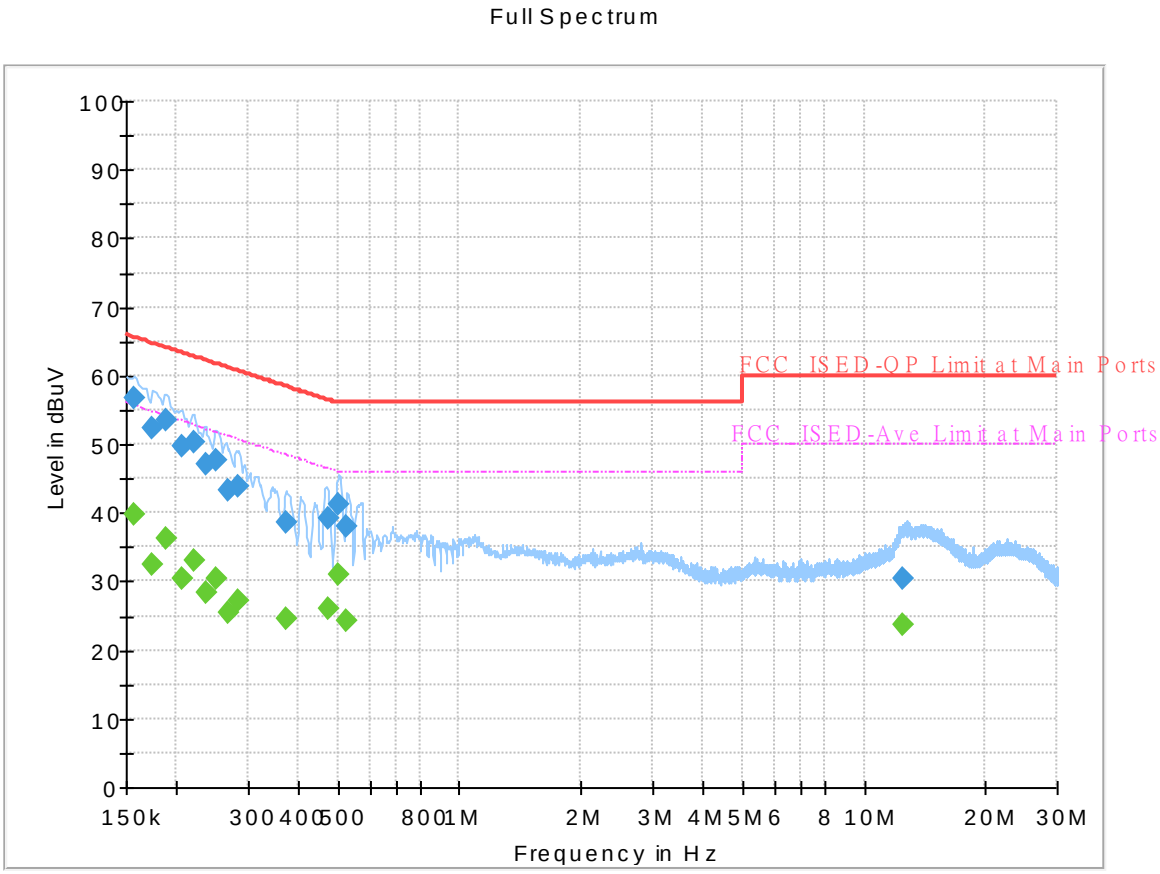
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	37.43	55.63	18.20	L1	OFF	19.9
0.156750	54.52	---	65.63	11.11	L1	OFF	19.9
0.168000	---	28.76	55.06	26.30	L1	OFF	19.9
0.168000	47.91	---	65.06	17.15	L1	OFF	19.9
0.177000	---	31.67	54.63	22.96	L1	OFF	19.9
0.177000	51.12	---	64.63	13.51	L1	OFF	19.9
0.188250	---	34.26	54.11	19.85	L1	OFF	19.9
0.188250	51.27	---	64.11	12.84	L1	OFF	19.9
0.204000	---	28.94	53.45	24.51	L1	OFF	19.9
0.204000	47.78	---	63.45	15.67	L1	OFF	19.9
0.222000	---	30.61	52.74	22.13	L1	OFF	19.9
0.222000	47.60	---	62.74	15.14	L1	OFF	19.9
0.235500	---	27.08	52.25	25.17	L1	OFF	19.9
0.235500	45.77	---	62.25	16.48	L1	OFF	19.9
0.249000	---	28.36	51.79	23.43	L1	OFF	19.9
0.249000	44.97	---	61.79	16.82	L1	OFF	19.9
0.269250	---	23.24	51.14	27.90	L1	OFF	19.9
0.269250	40.09	---	61.14	21.05	L1	OFF	19.9
0.285000	---	26.42	50.67	24.25	L1	OFF	19.9
0.285000	42.65	---	60.67	18.02	L1	OFF	19.9
0.404250	---	25.90	47.77	21.87	L1	OFF	19.9

0.404250	37.72	---	57.77	20.05	L1	OFF	19.9
0.438000	---	27.03	47.10	20.07	L1	OFF	19.9
0.438000	36.79	---	57.10	20.31	L1	OFF	19.9
0.467250	---	25.68	46.56	20.88	L1	OFF	19.9
0.467250	38.70	---	56.56	17.86	L1	OFF	19.9
0.505500	---	34.03	46.00	11.97	L1	OFF	19.9
0.505500	43.65	---	56.00	12.35	L1	OFF	19.9
0.525750	---	24.35	46.00	21.65	L1	OFF	19.9
0.525750	36.14	---	56.00	19.86	L1	OFF	19.9
0.561750	---	27.01	46.00	18.99	L1	OFF	19.9
0.561750	37.76	---	56.00	18.24	L1	OFF	19.9
16.532250	---	20.49	50.00	29.51	L1	OFF	20.8
16.532250	29.69	---	60.00	30.31	L1	OFF	20.8

EUT Information

Report NO :	652603
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	39.67	55.63	15.96	N	OFF	19.9
0.156750	56.77	---	65.63	8.86	N	OFF	19.9
0.174750	---	32.50	54.73	22.23	N	OFF	19.9
0.174750	52.38	---	64.73	12.35	N	OFF	19.9
0.188250	---	36.29	54.11	17.82	N	OFF	19.9
0.188250	53.39	---	64.11	10.72	N	OFF	19.9
0.206250	---	30.50	53.36	22.86	N	OFF	19.9
0.206250	49.65	---	63.36	13.71	N	OFF	19.9
0.219750	---	33.11	52.83	19.72	N	OFF	19.9
0.219750	50.18	---	62.83	12.65	N	OFF	19.9
0.235500	---	28.24	52.25	24.01	N	OFF	19.9
0.235500	47.08	---	62.25	15.17	N	OFF	19.9
0.251250	---	30.38	51.72	21.34	N	OFF	19.9
0.251250	47.55	---	61.72	14.17	N	OFF	19.9
0.267000	---	25.38	51.21	25.83	N	OFF	19.9
0.267000	43.33	---	61.21	17.88	N	OFF	19.9
0.285000	---	27.32	50.67	23.35	N	OFF	19.9
0.285000	43.93	---	60.67	16.74	N	OFF	19.9
0.375000	---	24.60	48.39	23.79	N	OFF	19.9
0.375000	38.54	---	58.39	19.85	N	OFF	19.9
0.471750	---	25.92	46.48	20.56	N	OFF	19.9

0.471750	39.07	---	56.48	17.41	N	OFF	19.9
0.503250	---	31.11	46.00	14.89	N	OFF	19.9
0.503250	41.16	---	56.00	14.84	N	OFF	19.9
0.528000	---	24.27	46.00	21.73	N	OFF	19.9
0.528000	38.02	---	56.00	17.98	N	OFF	19.9
12.502500	---	23.62	50.00	26.38	N	OFF	20.7
12.502500	30.37	---	60.00	29.63	N	OFF	20.7

Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Leo Li , Karl Hou,CHUN HAO LU	**Temperature :**	19~23°C
		Relative Humidity :	60~64.5%

Note symbol

-L	**Low channel location**
-R	**High channel location**

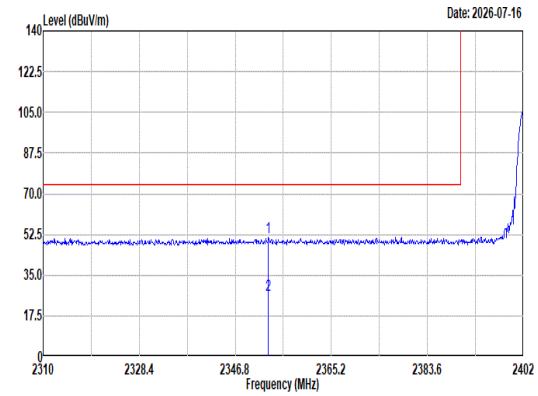
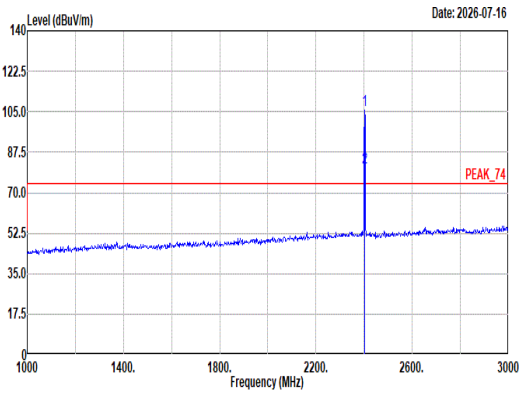
C1.Radiated Spurious Emission Test Modes

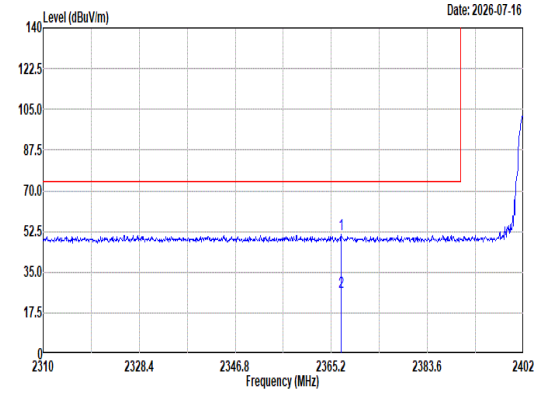
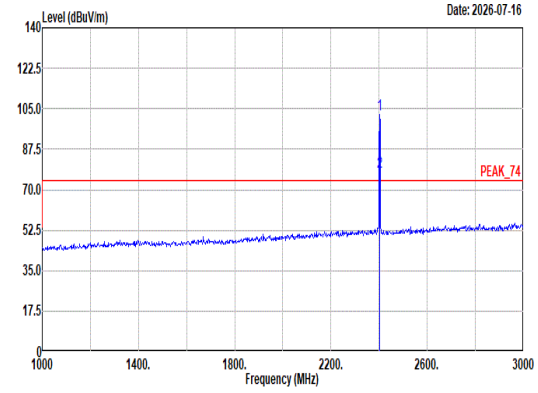
Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	Main	Bluetooth BR_GFSK	00	2402	1Mbps	-	SKU1
Mode 2	2400-2483.5	Main	Bluetooth BR_GFSK	39	2441	1Mbps	-	SKU1
Mode 3	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU1
Mode 4	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU1 LF
Mode 5	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU1 SHF
Mode 6	2400-2483.5	Main	Bluetooth BR_GFSK	39	2441	1Mbps	-	SKU2
Mode 7	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU2
Mode 8	2400-2483.5	Main	Bluetooth BR_GFSK	39	2441	1Mbps	-	SKU3
Mode 9	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU3
Mode 10	2400-2483.5	Main	Bluetooth BR_GFSK	39	2441	1Mbps	-	SKU1*
Mode 11	2400-2483.5	Main	Bluetooth BR_GFSK	78	2480	1Mbps	-	SKU1*

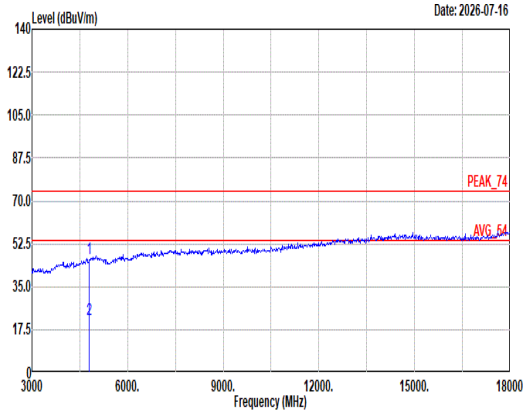
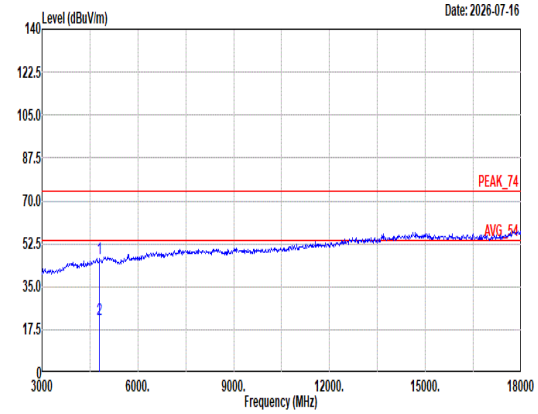
Remark*: The evaluation was performed for SKU 1 together with its charging case.

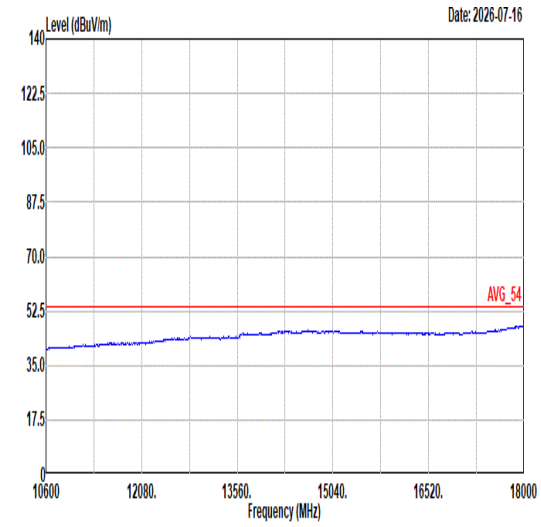
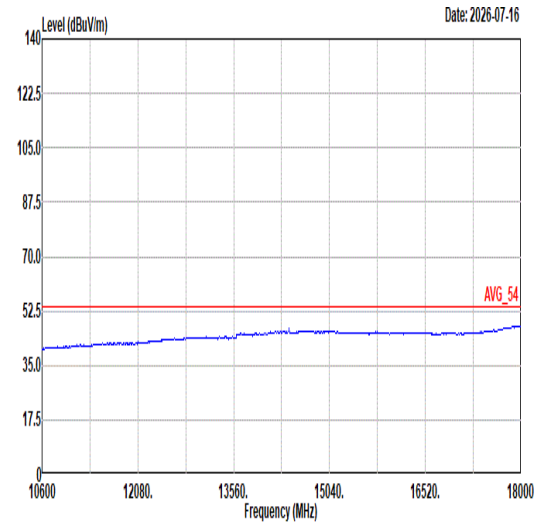
C2.Summary of each worse mode

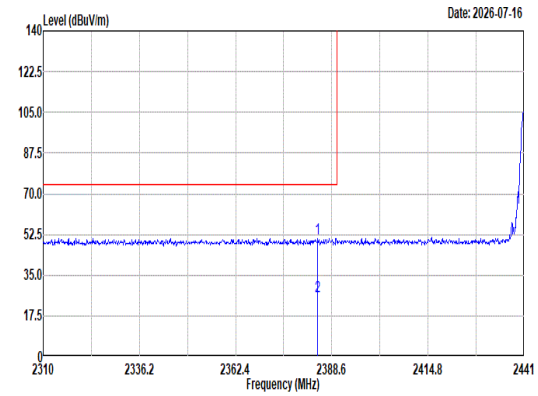
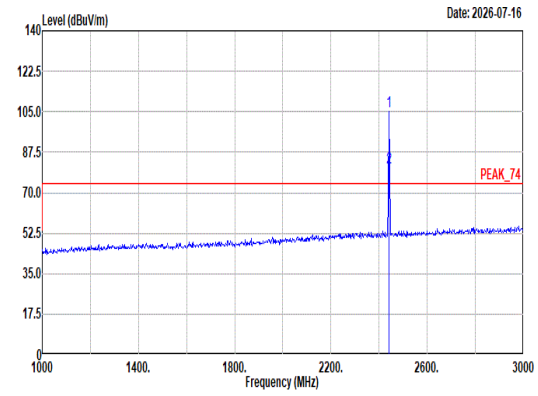
Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	RU	Remark
1	Bluetooth BR_GFSK	00	2353.15	51.30	74.00	-22.70	H	Peak	Pass	-	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	46.27	74.00	-27.73	V	Peak	Pass	-	Harmonic
2	Bluetooth BR_GFSK	39	2493.16	51.54	74.00	-22.46	H	Peak	Pass	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	50.22	74.00	-23.78	H	Peak	Pass	-	Harmonic
3	Bluetooth BR_GFSK	78	2483.56	52.95	74.00	-21.05	H	Peak	Pass	-	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	50.01	74.00	-23.99	H	Peak	Pass	-	Harmonic
4	Bluetooth BR_GFSK	78	740.04	39.80	46.00	-6.20	V	Peak	Pass	-	LF
5	Bluetooth BR_GFSK	78	19526.00	42.32	74.00	-31.68	V	Peak	Pass	-	SHF
6	Bluetooth BR_GFSK	39	7323.00	50.86	74.00	-23.14	H	Peak	Pass	-	Harmonic
7	Bluetooth BR_GFSK	78	2483.52	54.28	74.00	-19.72	H	Peak	Pass	-	Band Edge
8	Bluetooth BR_GFSK	39	7323.00	51.13	74.00	-22.87	H	Peak	Pass	-	Harmonic
9	Bluetooth BR_GFSK	78	2483.62	54.98	74.00	-19.02	H	Peak	Pass	-	Band Edge
10	Bluetooth BR_GFSK	39	7323.00	50.23	74.00	-23.77	V	Peak	Pass	-	Harmonic
11	Bluetooth BR_GFSK	78	2483.58	54.10	74.00	-19.90	H	Peak	Pass	-	Band Edge

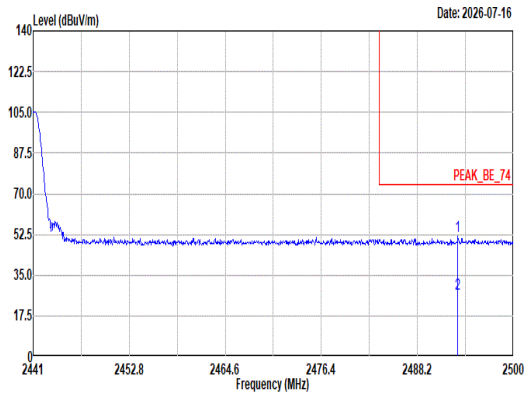
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2353.15 51.30 74.00 -22.70 38.35 27.07 7.42 31.82 10.28 200 217 Peak 2 2353.15 26.57 54.00 -27.43 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 105.58 ------ ------ 92.85 26.80 7.49 31.84 10.28 200 217 Peak 2 2402.00 80.85 ------ ------ -- -- -- -- -- -- -- Average

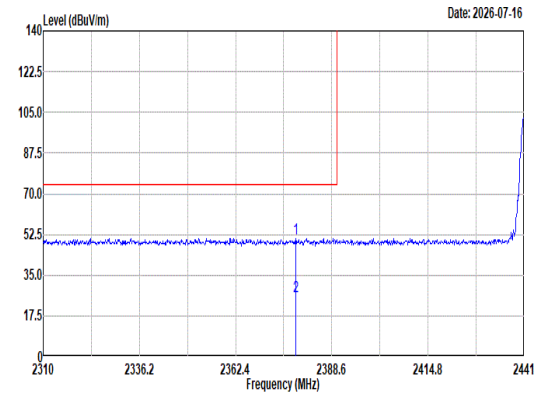
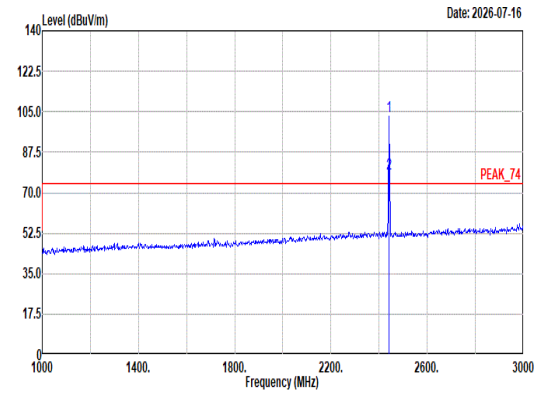
Mode	1	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2367.13 51.01 74.00 -22.99 38.19 26.93 7.44 31.83 10.28 111 348 Peak 2 2367.13 26.28 54.00 -27.72 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2402.00 102.38 ------ ------ 89.65 26.80 7.49 31.84 10.28 111 348 Peak 2 2402.00 77.65 ------ ------ -- -- -- -- -- -- -- Average

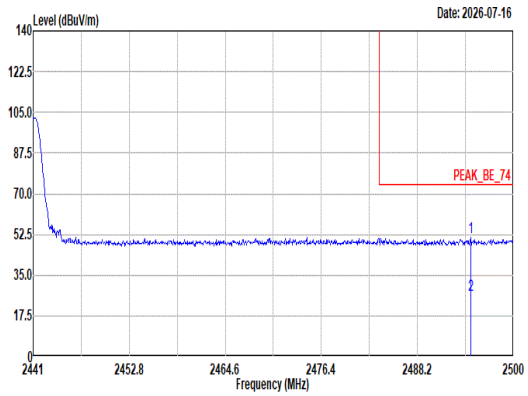
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL 1 4804.00 46.23 74.00 -27.77 34.11 32.21 10.53 32.33 1.71 -- -- Peak 2 4804.00 21.50 54.00 -32.50 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL 1 4804.00 46.27 74.00 -27.73 34.15 32.21 10.53 32.33 1.71 -- -- Peak 2 4804.00 21.54 54.00 -32.46 -- -- -- -- -- -- -- Average

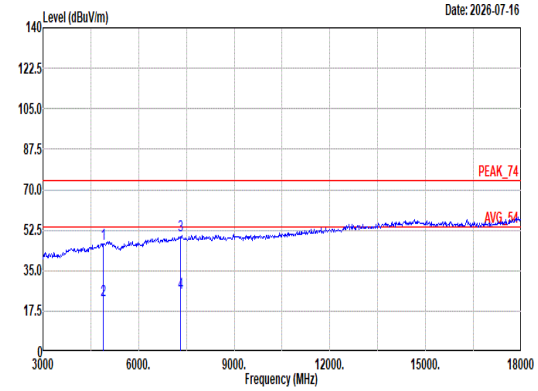
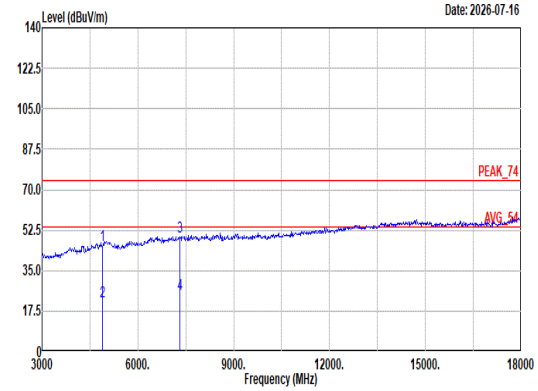
Mode	1	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 VERTICAL

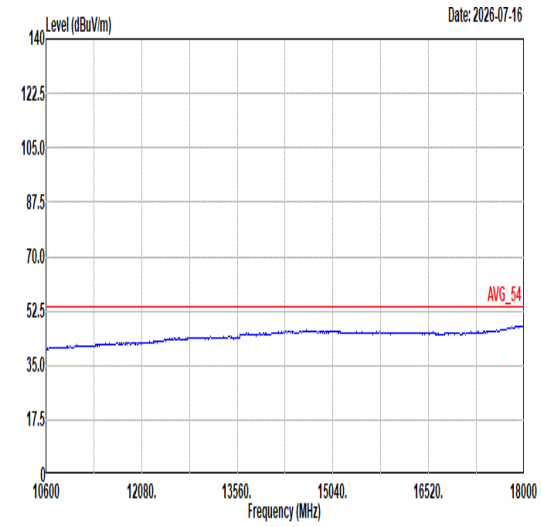
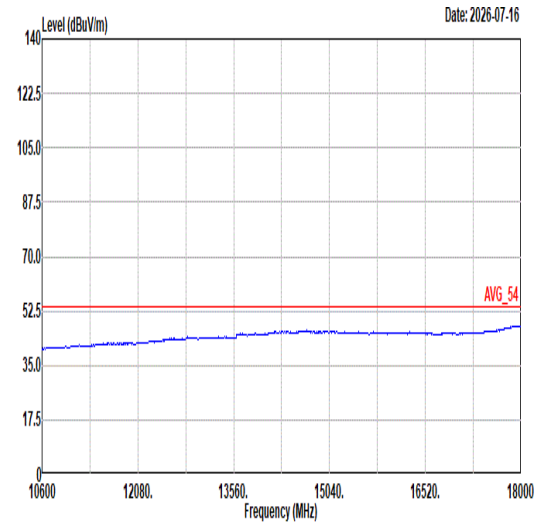
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2384.80 50.67 74.00 -23.33 37.85 26.90 7.47 31.83 10.28 199 220 Peak 2 2384.80 25.94 54.00 -28.06 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 105.32 ------ ------ 92.74 26.60 7.56 31.86 10.28 199 220 Peak 2 2441.00 80.59 ------ ------ -- -- -- -- -- -- -- Average

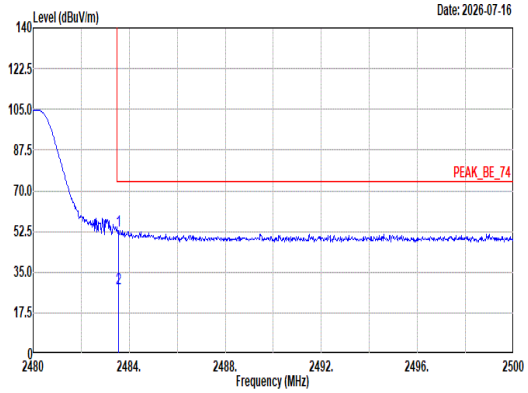
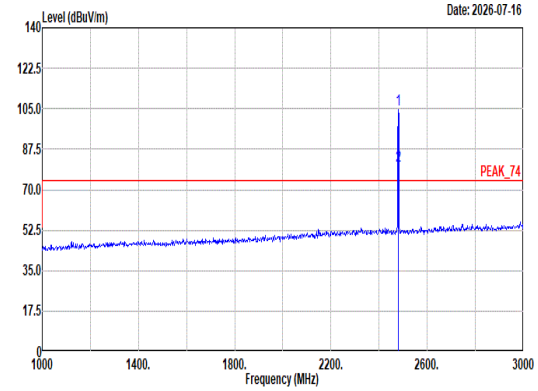
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2493.16 51.54 74.00 -22.46 38.77 26.73 7.64 31.89 10.29 199 220 Peak 2 2493.16 26.81 54.00 -27.19 -- -- -- -- -- -- -- AVERAGE	Blank

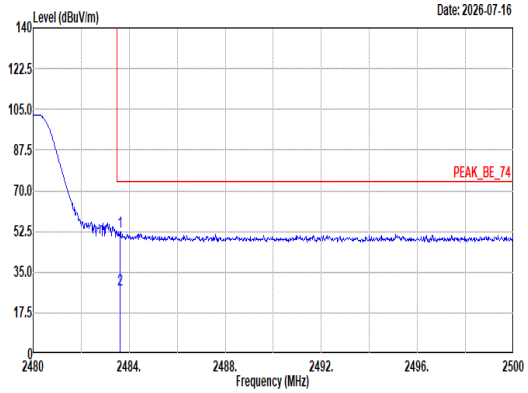
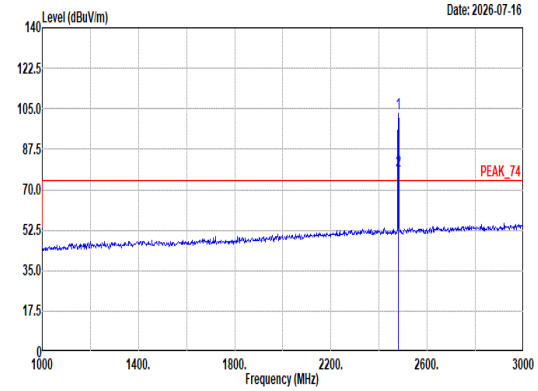
Mode	2	
	Band Edge - L	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2378.78 50.85 74.00 -23.15 38.04 26.90 7.46 31.83 10.28 138 350 Peak 2 2378.78 26.12 54.00 -27.88 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2441.00 102.77 ------ ------ 90.19 26.60 7.56 31.86 10.28 138 350 Peak 2 2441.00 78.04 ------ ------ -- -- -- -- -- -- -- Average

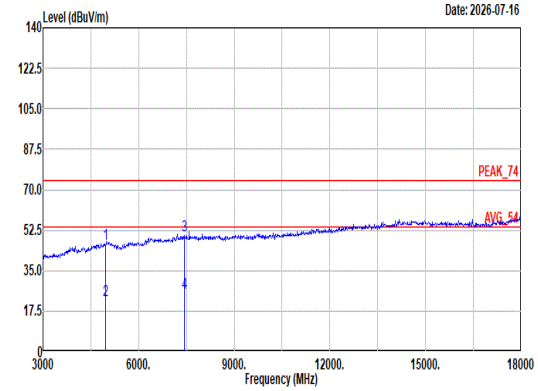
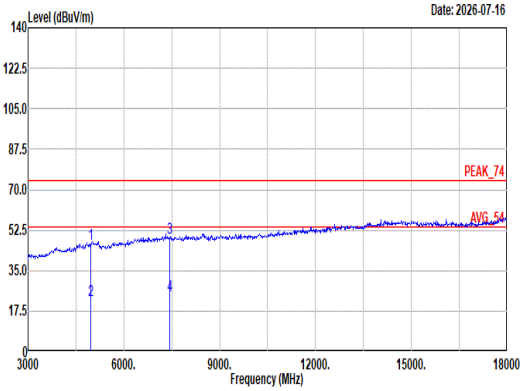
Mode	2	
	Band Edge - R	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Limit Read Ant Cable Preamp Aux APos TPos Freq Level Line Margin Level Factor Loss Factor Factor Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2494.75 51.12 74.00 -22.88 38.33 26.75 7.64 31.89 10.29 138 350 Peak 2 2494.75 26.39 54.00 -27.61 -- -- -- -- -- -- -- AVERAGE	Blank

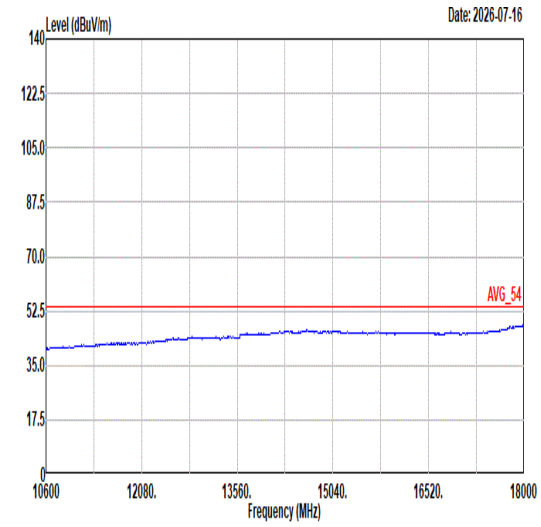
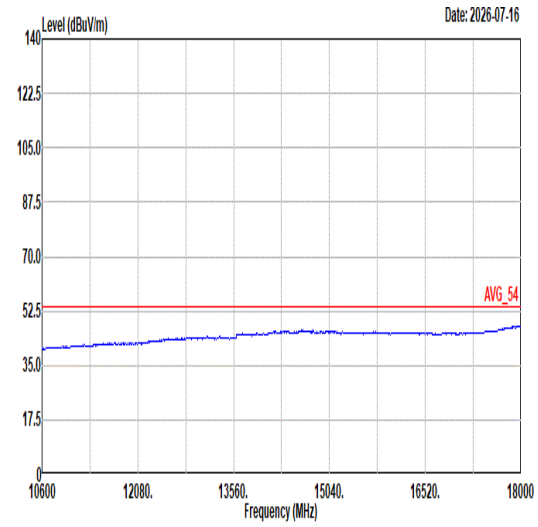
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 46.75 74.00 -27.25 34.24 32.43 10.66 32.29 1.71 -- -- Peak 2 4882.00 22.02 54.00 -31.98 -- -- -- -- -- -- -- Average 3 7323.00 50.22 74.00 -23.78 33.86 37.00 13.11 35.68 1.93 -- -- Peak 4 7323.00 25.49 54.00 -28.51 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 46.19 74.00 -27.81 33.68 32.43 10.66 32.29 1.71 -- -- Peak 2 4882.00 21.46 54.00 -32.54 -- -- -- -- -- -- -- Average 3 7323.00 49.79 74.00 -24.21 33.43 37.00 13.11 35.68 1.93 -- -- Peak 4 7323.00 25.06 54.00 -28.94 -- -- -- -- -- -- -- Average

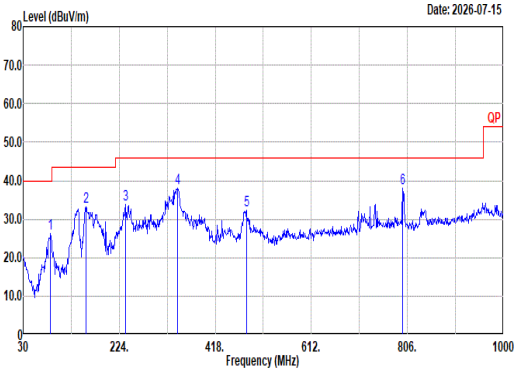
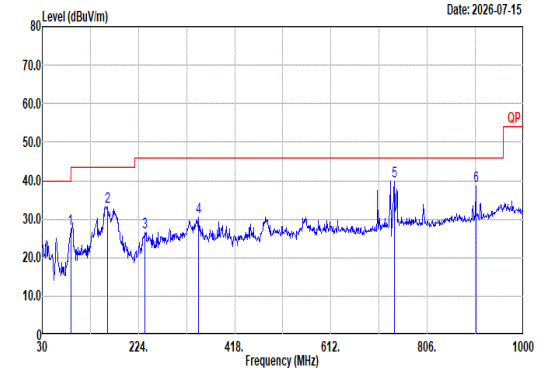
Mode	2	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 VERTICAL

Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.56 52.95 74.00 -21.05 40.22 26.70 7.62 31.88 10.29 221 222 Peak 2 2483.56 28.22 54.00 -25.78 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 104.85 ------ ------ 92.12 26.70 7.62 31.88 10.29 221 222 Peak 2 2480.00 80.12 ------ ------ -- -- -- -- -- -- -- Average

Mode	3	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.62 52.41 74.00 -21.59 39.68 26.70 7.62 31.88 10.29 128 349 Peak 2 2483.62 27.68 54.00 -26.32 -- -- -- -- -- -- -- AVERAGE	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 102.81 ------ ------ 90.08 26.70 7.62 31.88 10.29 128 349 Peak 2 2480.00 78.08 ------ ------ -- -- -- -- -- -- -- Average

Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 46.71 74.00 -27.29 33.74 32.72 10.78 32.24 1.71 -- -- Peak 2 4960.00 21.98 54.00 -32.02 -- -- -- -- -- -- -- Average 3 7440.00 50.01 74.00 -23.99 33.60 37.02 13.23 35.78 1.94 -- -- Peak 4 7440.00 25.28 54.00 -28.72 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4960.00 46.66 74.00 -27.34 33.69 32.72 10.78 32.24 1.71 -- -- Peak 2 4960.00 21.93 54.00 -32.07 -- -- -- -- -- -- -- Average 3 7440.00 49.27 74.00 -24.73 32.86 37.02 13.23 35.78 1.94 -- -- Peak 4 7440.00 24.54 54.00 -29.46 -- -- -- -- -- -- -- Average

Mode	3	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18ES_251105 VERTICAL

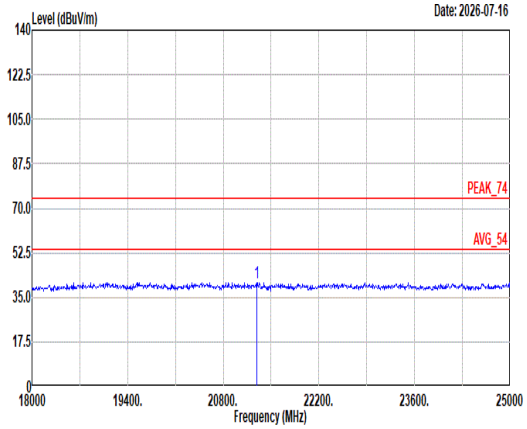
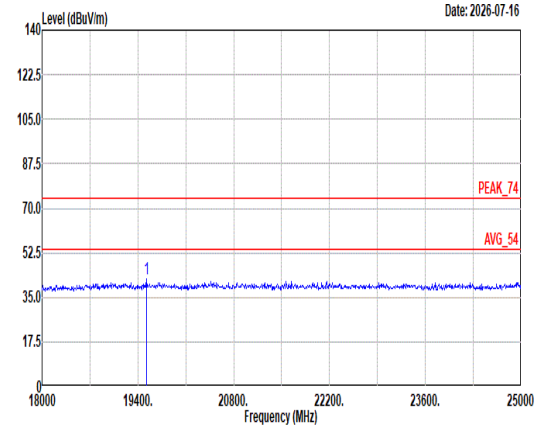
Mode	4	
	LF	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Vertical
QP/ Peak		

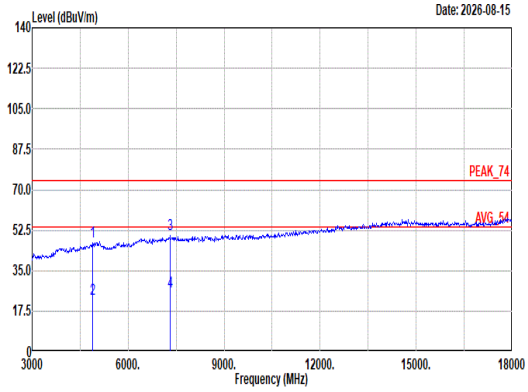
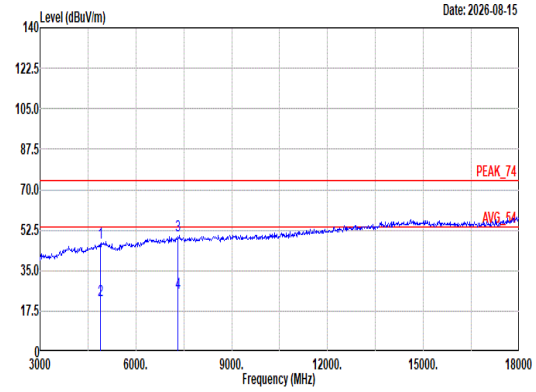
Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_251126 HORIZONTAL

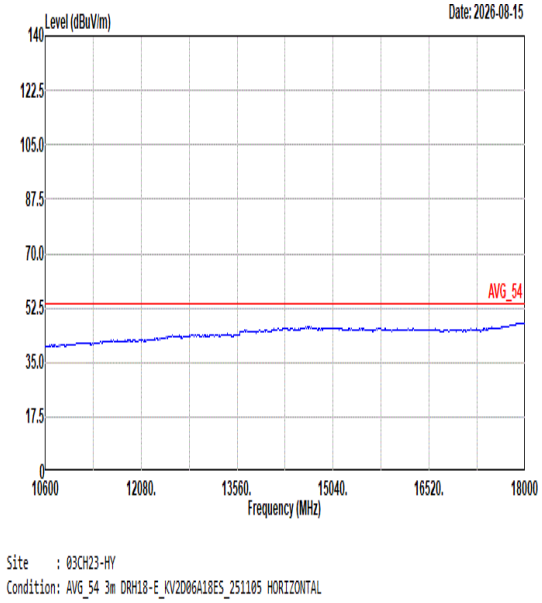
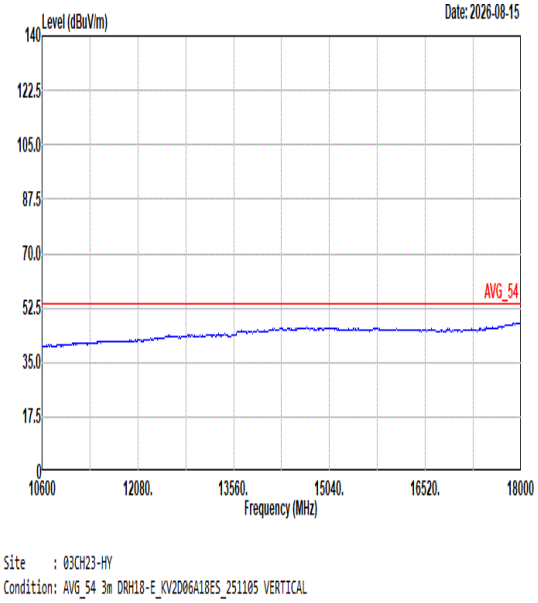
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	85.29	26.35	40.00	-13.65	42.69	14.51	1.45	32.39	0.09	--	--	Peak
2	157.07	33.23	43.50	-10.27	46.42	16.99	1.97	32.37	0.22	--	--	Peak
3	236.61	33.69	46.00	-12.31	46.64	16.93	2.38	32.36	0.10	--	--	Peak
4	342.34	37.94	46.00	-8.06	46.91	20.12	2.93	32.27	0.25	--	--	Peak
5	481.05	32.23	46.00	-13.77	37.33	23.67	3.44	32.31	0.10	--	--	Peak
6	796.30	38.08	46.00	-7.92	37.38	28.11	4.43	32.06	0.22	--	--	Peak

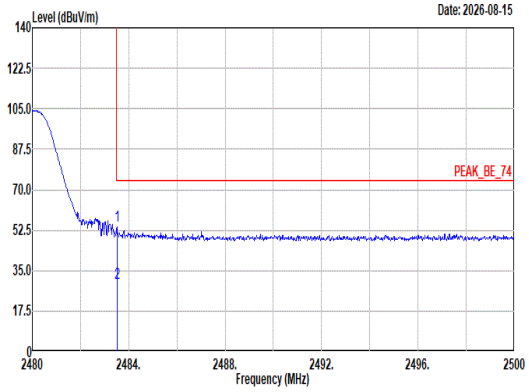
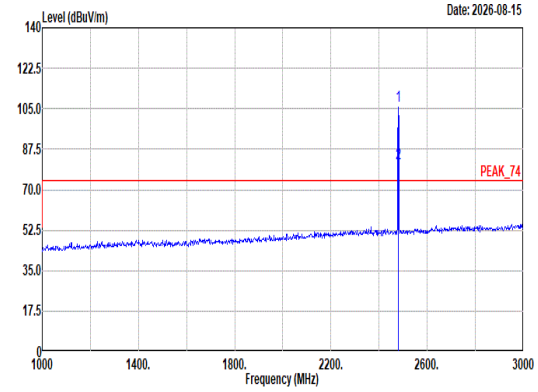
Site : 03CH23-HY
Condition: QP 3m CBL6111D_62028 & 003_251126 VERTICAL

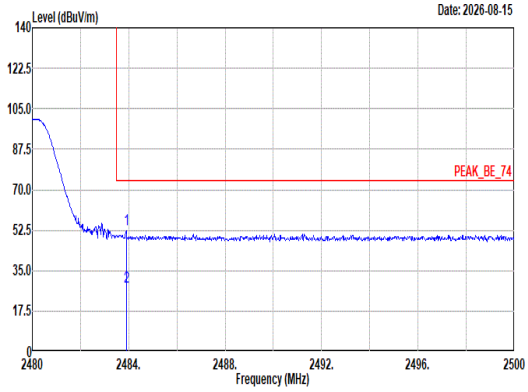
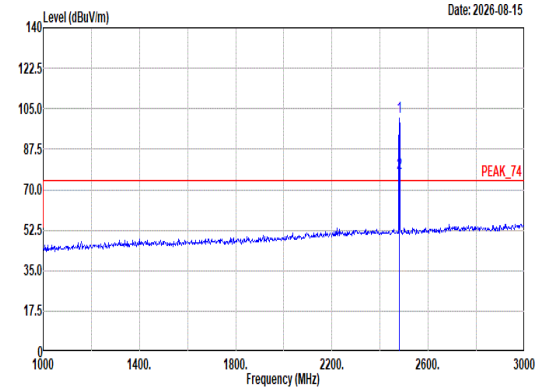
	Freq	Level	Limit Line	Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	87.23	27.54	40.00	-12.46	43.56	14.81	1.47	32.39	0.09	--	--	Peak
2	160.95	33.21	43.50	-10.29	46.68	16.67	1.99	32.37	0.24	--	--	Peak
3	237.58	26.65	46.00	-19.35	39.48	17.05	2.38	32.36	0.10	--	--	Peak
4	344.28	30.59	46.00	-15.41	39.45	20.21	2.95	32.27	0.25	--	--	Peak
5	740.04	39.80	46.00	-6.20	39.69	27.90	4.28	32.27	0.20	--	--	Peak
6	903.97	38.72	46.00	-7.28	36.14	29.05	4.80	31.45	0.18	--	--	Peak

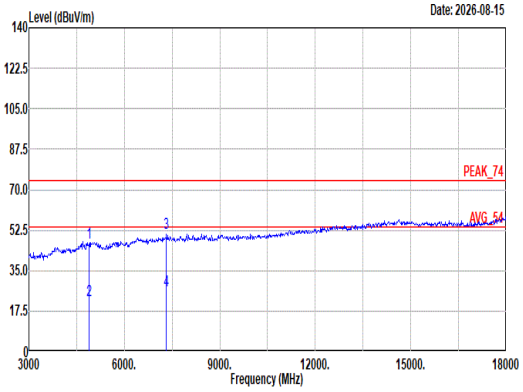
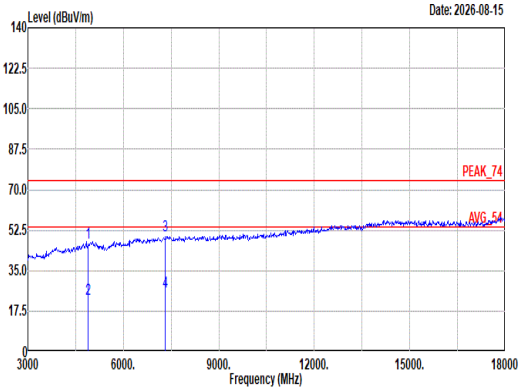
Mode	5	
	SHF	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak	 Site : Condition: PEAK_74 1m BBHA9170_1230_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 21290.00 40.93 74.00 -33.07 53.00 38.08 22.75 63.36 -9.54 -- -- Peak	 Site : Condition: PEAK_74 1m BBHA9170_1230_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 19526.00 42.32 74.00 -31.68 56.36 38.05 21.73 64.28 -9.54 -- -- Peak

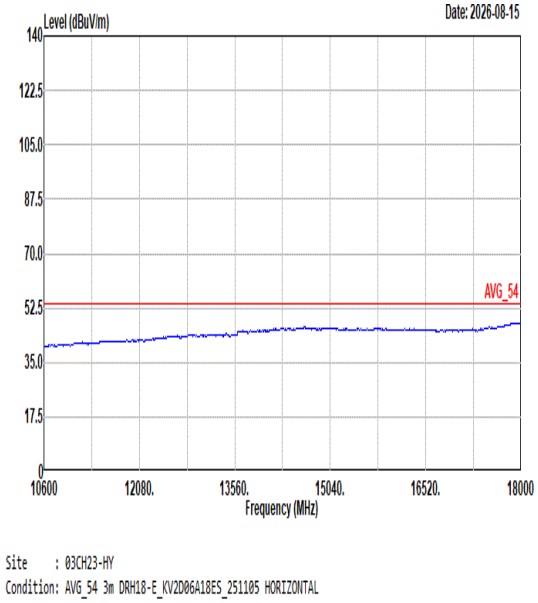
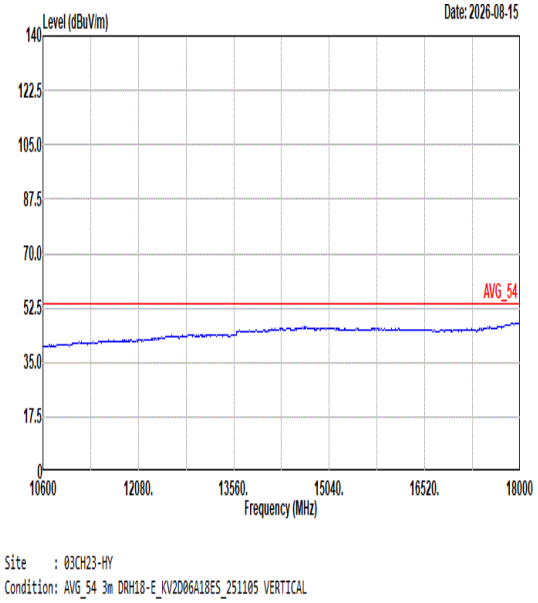
Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 47.68 74.00 -26.32 35.46 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 22.95 54.00 -31.05 -- -- -- -- -- -- -- Average 3 7323.00 50.86 74.00 -23.14 34.86 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 26.13 54.00 -27.87 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 46.96 74.00 -27.04 34.74 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 22.23 54.00 -31.77 -- -- -- -- -- -- -- Average 3 7323.00 50.29 74.00 -23.71 34.29 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 25.56 54.00 -28.44 -- -- -- -- -- -- -- Average

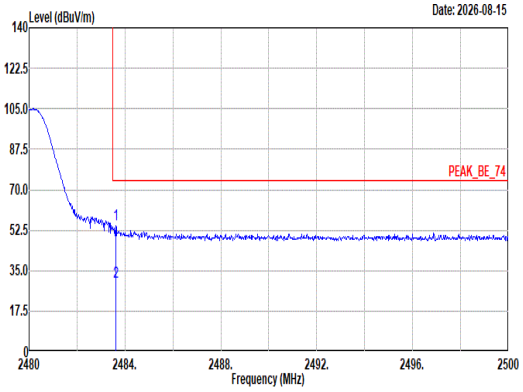
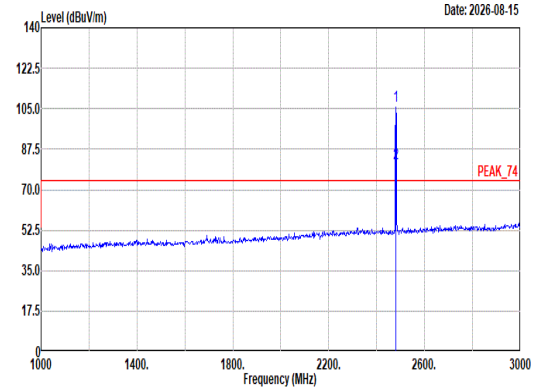
Mode	6	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

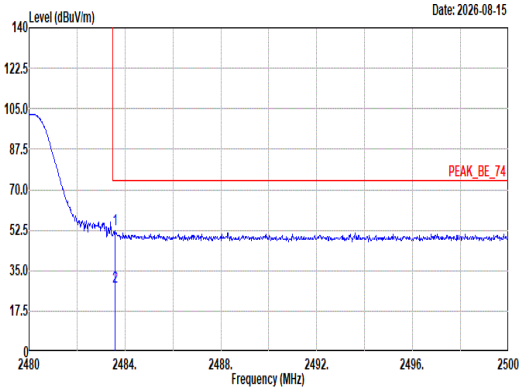
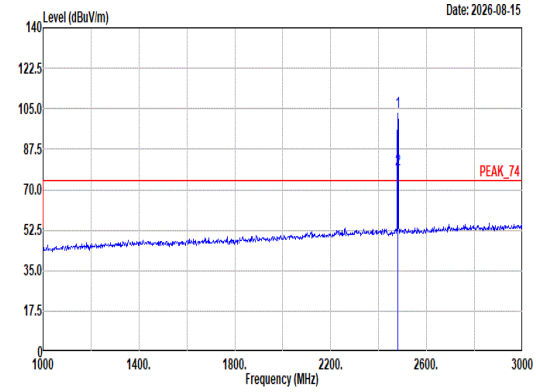
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.52 54.28 74.00 -19.72 41.52 26.70 7.65 31.88 10.29 182 1 Peak 2 2483.52 29.55 54.00 -24.45 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.10 ------ ------ 93.34 26.70 7.65 31.88 10.29 182 1 Peak 2 2480.00 81.37 ------ ------ -- -- -- -- -- -- -- Average

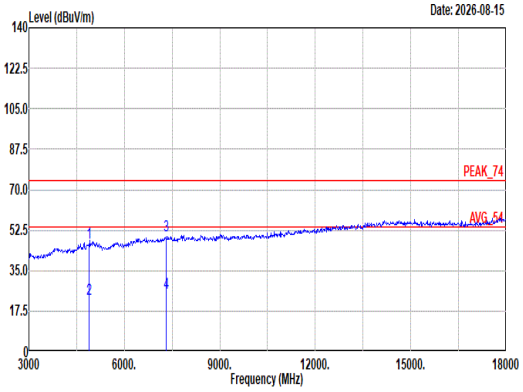
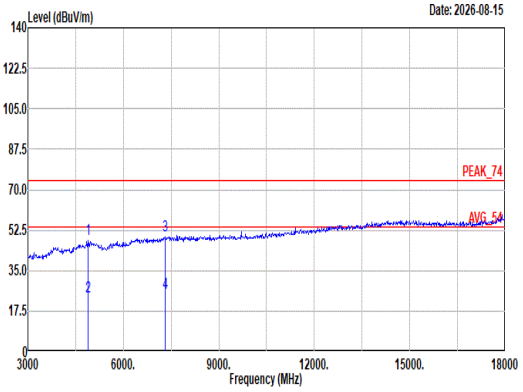
Mode	7	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.90 52.80 74.00 -21.20 40.04 26.70 7.65 31.88 10.29 308 195 Peak 2 2483.90 28.07 54.00 -25.93 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 101.65 ------ ------ 88.89 26.70 7.65 31.88 10.29 308 195 Peak 2 2480.00 76.92 ------ ------ -- -- -- -- -- -- -- Average

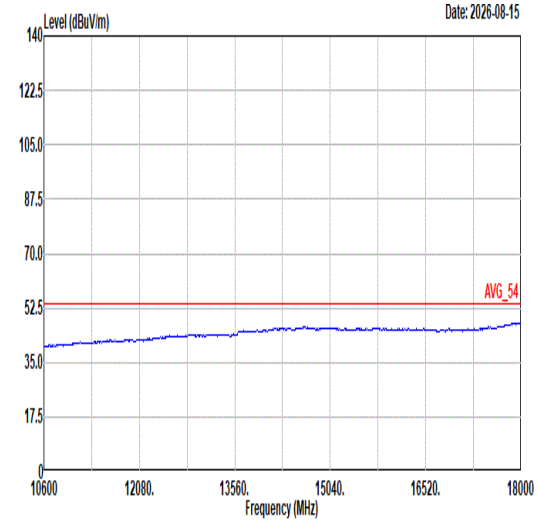
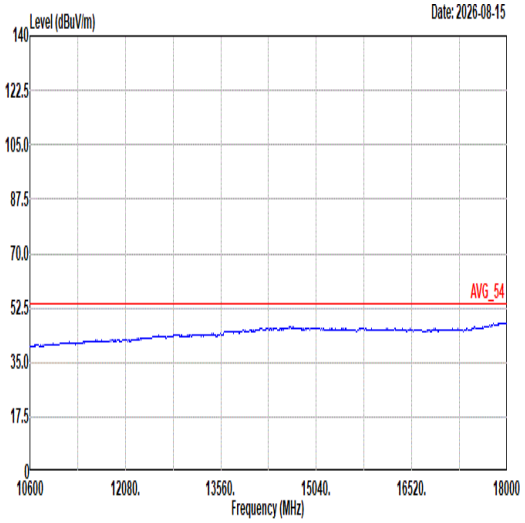
Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 47.18 74.00 -26.82 34.96 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 22.45 54.00 -31.55 -- -- -- -- -- -- -- Average 3 7323.00 51.13 74.00 -22.87 35.13 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 26.40 54.00 -27.60 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 47.20 74.00 -26.80 34.98 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 22.47 54.00 -31.53 -- -- -- -- -- -- -- Average 3 7323.00 50.36 74.00 -23.64 34.36 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 25.63 54.00 -28.37 -- -- -- -- -- -- -- Average

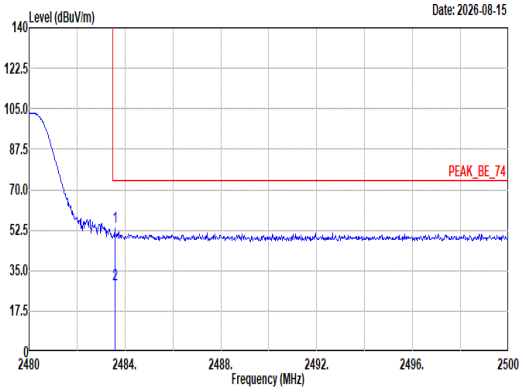
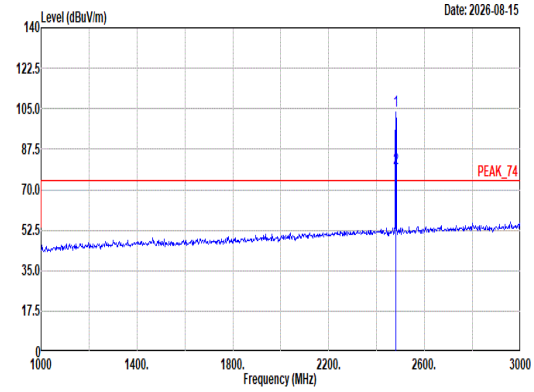
Mode	8	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg		

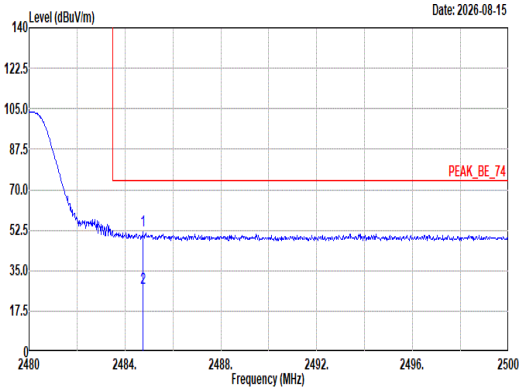
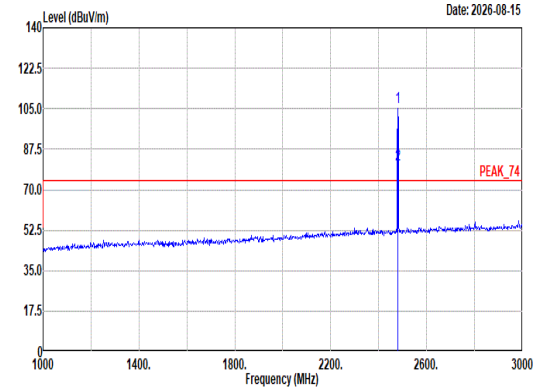
Mode	9	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.62 54.98 74.00 -19.02 42.22 26.70 7.65 31.88 10.29 180 145 Peak 2 2483.62 30.25 54.00 -23.75 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 106.04 ------ ------ 93.28 26.70 7.65 31.88 10.29 180 145 Peak 2 2480.00 81.31 ------ ------ -- -- -- -- -- -- -- Average

Mode	9	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.58 52.88 74.00 -21.12 40.12 26.70 7.65 31.88 10.29 276 207 Peak 2 2483.58 28.15 54.00 -25.85 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 103.63 ------ ------ 90.87 26.70 7.65 31.88 10.29 276 207 Peak 2 2480.00 78.90 ------ ------ -- -- -- -- -- -- -- Average

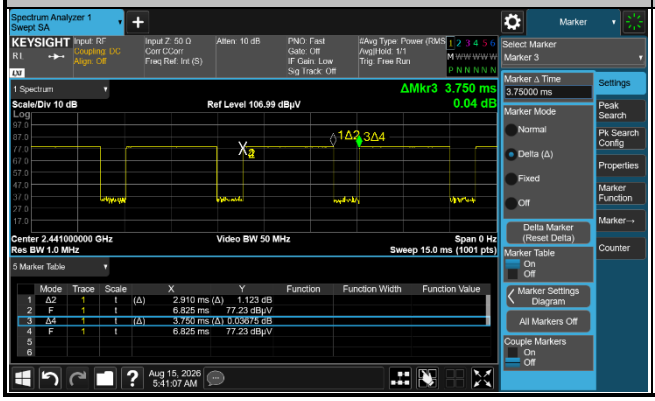
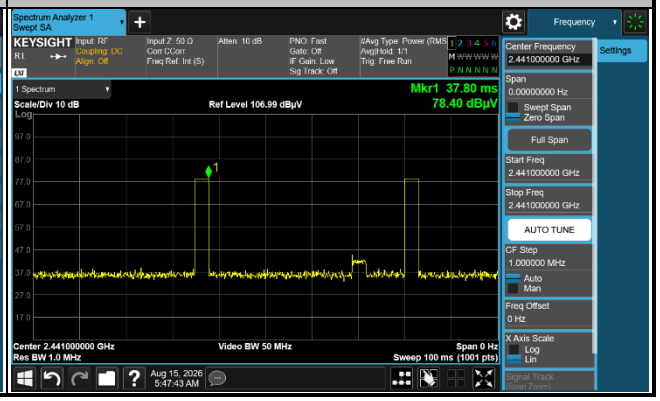
Mode	10	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
Peak Avg	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 47.20 74.00 -26.80 34.98 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 22.47 54.00 -31.53 -- -- -- -- -- -- -- Average 3 7323.00 50.11 74.00 -23.89 34.11 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 25.38 54.00 -28.62 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 4882.00 48.39 74.00 -25.61 36.17 32.43 10.65 32.29 1.43 -- -- Peak 2 4882.00 23.66 54.00 -30.34 -- -- -- -- -- -- -- Average 3 7323.00 50.23 74.00 -23.77 34.23 37.00 13.28 35.68 1.40 -- -- Peak 4 7323.00 25.50 54.00 -28.50 -- -- -- -- -- -- -- Average

Mode	10	
	Harmonic	
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz	
ANT	Main	
Pol.	Horizontal	Vertical
10.6G ~18G Avg	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18E5_251105 HORIZONTAL	 Site : 03CH23-HY Condition: AVG_54 3m DRH18-E_KV2D06A18E5_251105 VERTICAL

Mode	11	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Horizontal	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2483.58 54.10 74.00 -19.90 41.34 26.70 7.65 31.88 10.29 104 62 Peak 2 2483.58 29.27 54.00 -24.73 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 104.16 ------ ------ 91.40 26.70 7.65 31.88 10.29 104 62 Peak 2 2480.00 79.43 ------ ------ -- -- -- -- -- -- -- Average

Mode	11	
	Band Edge	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	Main	
Pol.	Vertical	Fundamental
Peak	 Site : 03CH23-HY Condition: PEAK_BE_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2484.74 52.11 74.00 -21.89 39.34 26.70 7.66 31.88 10.29 299 79 Peak 2 2484.74 27.38 54.00 -26.62 -- -- -- -- -- -- -- Average	 Site : 03CH23-HY Condition: PEAK_74 3m DRH18-E_KV2D06A18ES_251105 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Freq Level Limit Line Margin Read Level Ant Factor Cable Loss Preamp Factor Aux Factor APos TPos Remark MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg 1 2480.00 105.55 ------ ------ 92.79 26.70 7.65 31.88 10.29 299 79 Peak 2 2480.00 80.82 ------ ------ -- -- -- -- -- -- -- Average

Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39	on time (Count Pulses) Plot on Channel 39
	

Note:

1. Worst case Duty cycle = on time/100 milliseconds = 2 * 2.9 / 100 = 5.8 %
2. Worst case Duty cycle correction factor = 20*log(Duty cycle) = -24.73 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

2.9 ms x 20 channels = 58 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 ms / 57.6 ms] = 2 hops

Thus, the maximum possible ON time:

2.9 ms x 2 = 5.8 ms

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

20 x log(5.8 ms/100 ms) = -24.73 dB