

**FCC/ISED - TEST REPORT**

Report Number	:	709502501599-00C	Date of Issue:	<u>February 6, 2026</u>
Model	:	S1 Pro, S1 Ultra		
Product Type	:	Intelligent Lawn Mower		
Applicant	:	Kunshan Lantuo Intelligent Robot Co., Ltd		
Address	:	2F, Room 2, No. 179, Waihejing Road, Kunshan Development Zone Comprehensive Bond, Kunshan, Jiangsu, China		
Production Facility	:	Kunshan Lantuo Intelligent Robot Co., Ltd		
Address	:	2F, Room 2, No. 179, Waihejing Road, Kunshan Development Zone Comprehensive Bond, Kunshan, Jiangsu, China		
Test Result	:	☒ Positive ☐ Negative		
Total pages including Appendices	:	<u>87</u>		



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2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
709502501599-00C	First Issue	02/06/2026

3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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FCC Registration No.: 820234

FCC Designation Number: CN1183

ISED CAB identifier: CN0101

IC Registration No.: 31668



4 Description of the Equipment Under Test

Product:	Intelligent Lawn Mower
Model no.:	S1 Pro, S1 Ultra
Hardware Version Identification No. (HVIN)	S1Pro, S1Ultra
Product Marketing Name (PMN)	Intelligent Lawn Mower
FCC ID:	2BTDL-S1ULTRAS1PRO
IC:	34692-S1
Options and accessories:	NA
Rating:	21.6V d.c. Charging mode: 100-240V~, 50/60Hz by Base Station
RF Transmission Frequency:	For 2.4G Wi-Fi: 802.11b/g/n-HT20-HE20: 2412~2462 MHz For BLE: 2402~2480 MHz For BR/EDR: 2402~2480 MHz
No. of Operated Channel:	For 2.4G Wi-Fi: 11 for 802.11b/802.11g/802.11n(H20) For BLE: 40 For BR/EDR: 79
Modulation:	For 2.4G Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n For BLE: GFSK For BR/EDR: GFSK, $\pi/4$ DQPSK, 8DPSK
Hardware Version:	BMHW-S23001
Software Version:	BMSW-CR-S23001

Data speed:

For 2.4G Wi-Fi:

11b 1-11Mbps

11g 6-54Mbps

11n(H20) 6.5-72.2Mbps

For BLE: 1Mbps, 2Mbps

For EDR: 1Mbps, 2Mbps, 3Mbps

Channel list:

For 2.4G Wi-Fi:

802.11b/g/n(HT20)			
Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

For BLE

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

For EDR

Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MHz)
1	2402	17	2418	33	2434	49	2450	65	2466
2	2403	18	2419	34	2435	50	2451	66	2467
3	2404	19	2420	35	2436	51	2452	67	2468
4	2405	20	2421	36	2437	52	2453	68	2469
5	2406	21	2422	37	2438	53	2454	69	2470
6	2407	22	2423	38	2439	54	2455	70	2471
7	2408	23	2424	39	2440	55	2456	71	2472
8	2409	24	2425	40	2441	56	2457	72	2473
9	2410	25	2426	41	2442	57	2458	73	2474
10	2411	26	2427	42	2443	58	2459	74	2475
11	2412	27	2428	43	2444	59	2460	75	2476
12	2413	28	2429	44	2445	60	2461	76	2477



13	2414	29	2430	45	2446	61	2462	77	2478
14	2415	30	2431	46	2447	62	2463	78	2479
15	2416	31	2432	47	2448	63	2464	79	2480
16	2417	32	2433	48	2449	64	2465		

Antenna Type: FPC antenna

Antenna Gain: For 2.4G Wi-Fi: 5.12 dBi

For BLE: 5.12 dBi

For EDR: 5.12 dBi

Description of the EUT: The Equipment Under Test (EUT) is a Intelligent Lawn Mower with Wi-Fi Module with BLE/BR/EDR Module and LTE Module. The EUT support Wi-Fi operated at 2.4GHz.

Test sample no.: SHA-952960-3 (Radiated sample)
SHA-952960-2 (Conducted sample)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.

5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2024 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators
RSS-Gen Issue 5 April 2018 + Amendment 1 March 2019 + Amendment 2 February 2021	General Requirements for Compliance of Radio Apparatus
RSS-247 Issue 4 July 2025	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands

All the test methods were according to KDB 558074 D01 15.247 Measurement Guidance v05r02 and ANSI C63.10-2020.

Note: For ISED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C & RSS-247 Issue 4/RSS-Gen Issue 5						
Test Condition			Test Site	Test Result		
				Pass	Fail	N/A
§15.207	RSS-GEN 8.8	Conducted emission AC power port	Site 1	☒	☐	☐
§15.247 (b) (3)	RSS-247 6.2.3.2(a)	Conducted peak output power	Site 1	☒	☐	☐
	RSS-247 6.2.3.2(c)	Equivalent Isotropic Radiated Power	Site 1	☒	☐	☐
§15.247(a)(1)	RSS-247 6.2.1(a) & RSS-Gen 6.7	20dB bandwidth and 99% Occupied Bandwidth	Site 1	☒	☐	☐
§15.247(a)(1)	RSS-247 6.2.3.1(a)	Carrier frequency separation	Site 1	☒	☐	☐
§15.247(a)(1)(iii)	RSS-247 6.2.3.1(b)	Number of hopping frequencies	Site 1	☒	☐	☐
§15.247(a)(1)(iii)	RSS-247 6.2.3.1(b)	Dwell Time - Average Time of Occupancy	Site 1	☒	☐	☐
§15.247(a)(2)	RSS-247 6.3.1(a) & RSS-GEN 6.7	6dB bandwidth and 99% Occupied Bandwidth	---	☐	☐	☒
§15.247(e)	RSS-247 6.3.1 (b)	Power spectral density	---	☐	☐	☒
§15.247(d)	RSS-247 6.6	Spurious RF conducted emissions	Site 1	☒	☐	☐
§15.247(d)	RSS-247 6.6	Band edge	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	RSS-247 6.6 & RSS-Gen 6.13	Spurious radiated emissions for transmitter	Site 1	☒	☐	☐
§15.203	RSS-Gen 6.8	Antenna requirement	See note 1	☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a FPC antenna, which gain is 5.12 dBi for 2.4GWi-Fi/Bluetooth. In accordance to §15.203 and RSS-Gen 6.8, It is considered sufficiently to comply with the provisions of this section.



Test Name	Test date	Name of Engineer(s)
Conducted emission AC power port	08/28/2025	Doujun XU
Conducted peak output power	04/08/2025	Doujun XU
Equivalent Isotropic Radiated Power	04/08/2025	Doujun XU
6dB bandwidth and 99% Occupied Bandwidth	04/08/2025	Doujun XU
Power spectral density	04/08/2025	Doujun XU
Spurious RF conducted emissions	04/08/2025	Doujun XU
Band edge	04/08/2025	Doujun XU
Spurious radiated emissions for transmitter	04/25/2025 ~ 04/30/2025	Doujun XU



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BTDL-S1ULTRAS1PRO, IC: 34692-S1, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules and RSS-247, RSS-GEN.

According to the client's declaration, all models are the power supply, electrical principle, PCB layout and electrical structure used in Model S1 Pro and model S1 Ultra are the same, but the battery pack capacity is different. So model S1 Ultra was chosen to perform all the tests, other model S1 Pro is deemed to fulfill all the requirement without further testing.

This report is only for the 2.4GHz BR/EDR test report, for the 2.4G Wi-Fi test report please refer to 709502501599-00D, for the 2.4G BLE test report please refer to 709502501599-00B.

We tested it and listed the worst data in this report.

SUMMARY:

All tests according to the regulations cited on page 7 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: March 24, 2025

Testing Start Date: April 8, 2025

Testing End Date: August 28, 2025

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:



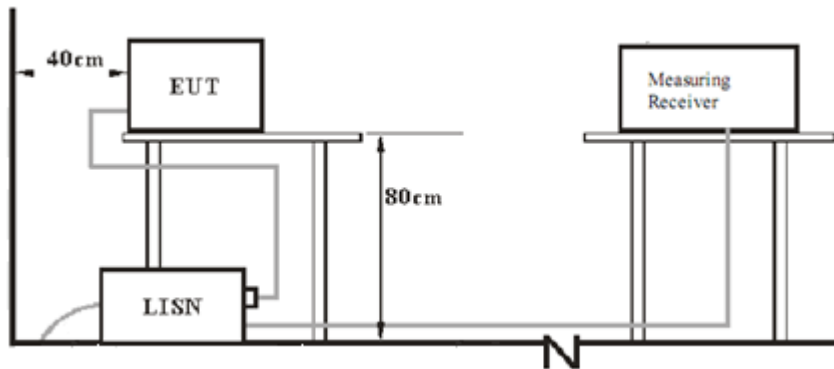
Hui TONG
Review Engineer

Wenqiang LU
Project Engineer

Doujun XU
Test Engineer

8 Test Setups

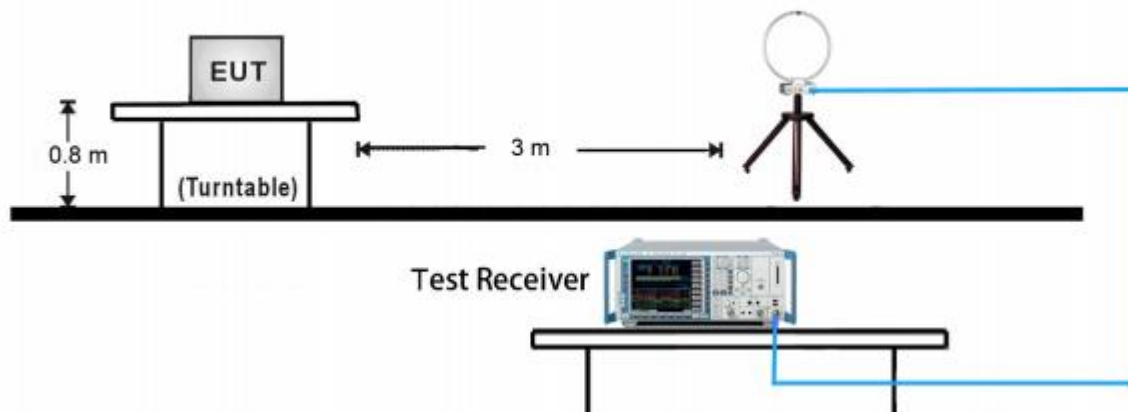
8.1 AC Power Line Conducted Emission test setups



Note: for floor-standing equipment, the supporting table (80 cm) shall be replaced by a insulating material (up to 12 mm thick).

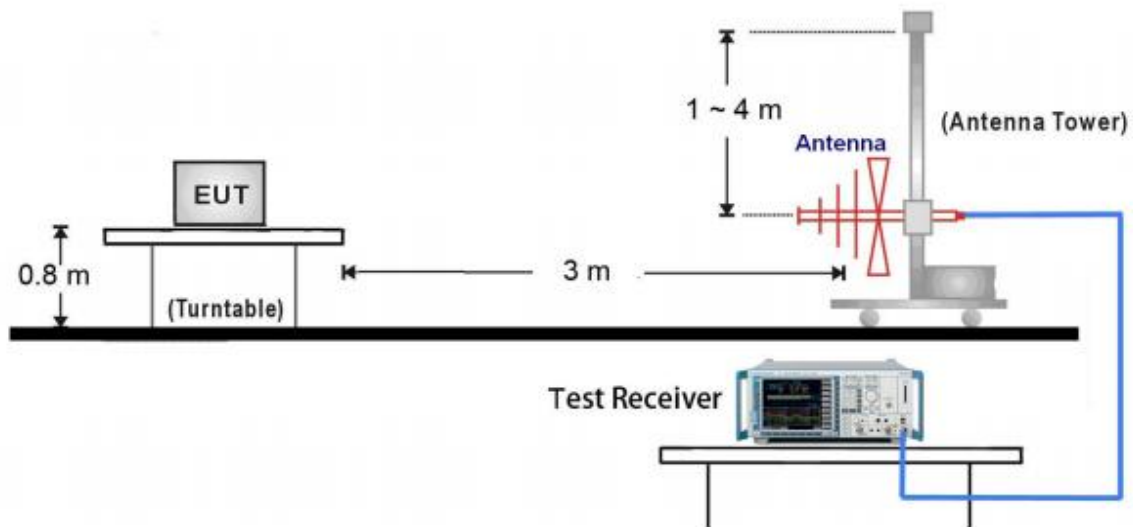
8.2 Radiated test setups

9kHz ~ 30MHz Test Setup:



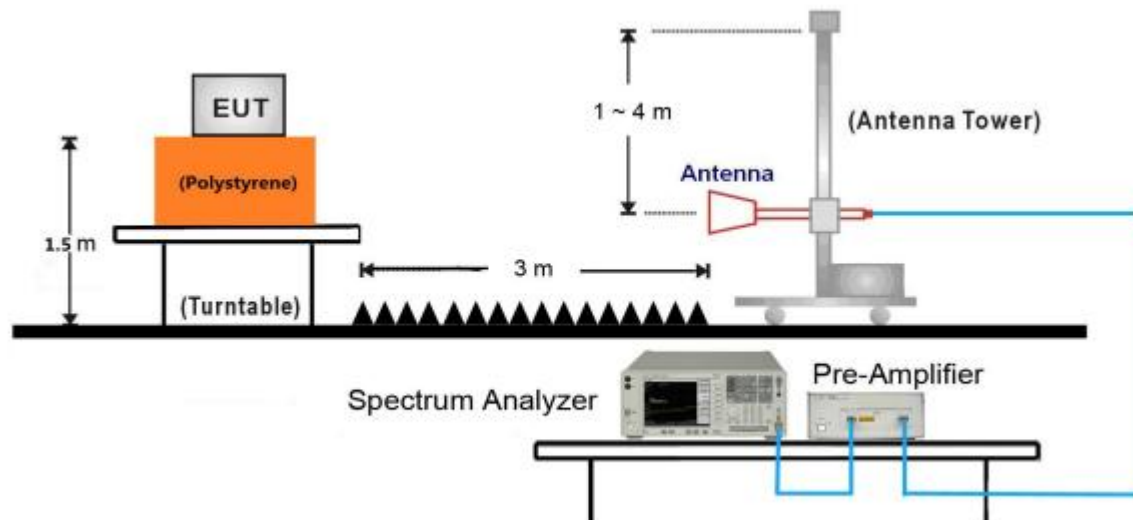
Note: for floor-standing equipment, the supporting table (80 cm) shall be replaced by a insulating material (up to 12 mm thick).

30MHz ~ 1GHz Test Setup:



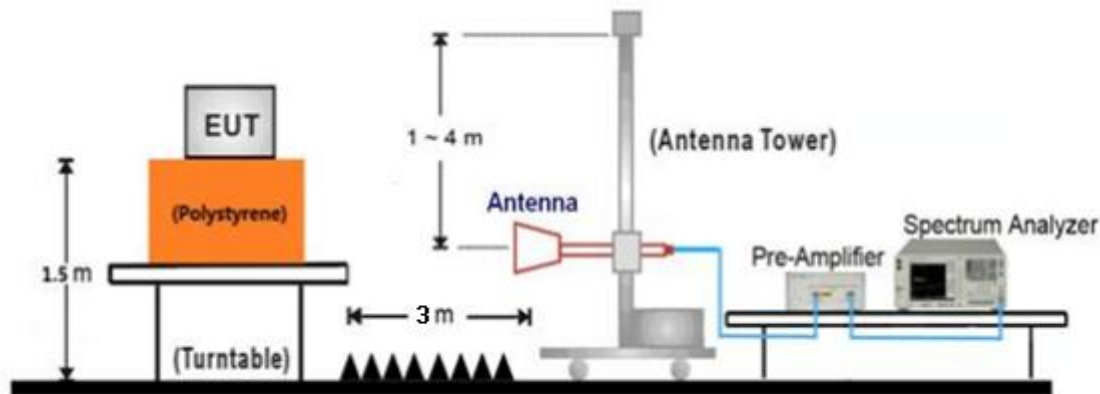
Note: for floor-standing equipment, the supporting table (80 cm) shall be replaced by a insulating material (up to 12 mm thick).

1GHz ~ 18GHz Test Setup:

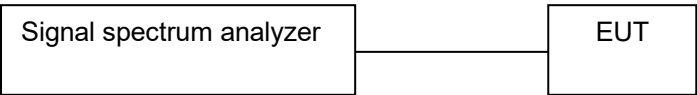




18GHz ~ 25GHz Test Setup:



8.3 Conducted RF test setups



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: adb.exe, which used to control the EUT in continues transmitting mode.

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Mode	Tested Channel	Modulation	Index Value (Power level setting)
DH5	0	GFSK	Default
	40	GFSK	Default
	78	GFSK	Default
2DH5	0	$\pi/4$ -DQPSK	Default
	40	$\pi/4$ -DQPSK	Default
	78	$\pi/4$ -DQPSK	Default
3DH5	0	8DPSK	Default
	40	8DPSK	Default
	78	8DPSK	Default

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. An EMI test receiver is used to test the emissions from both sides of AC line

Limit

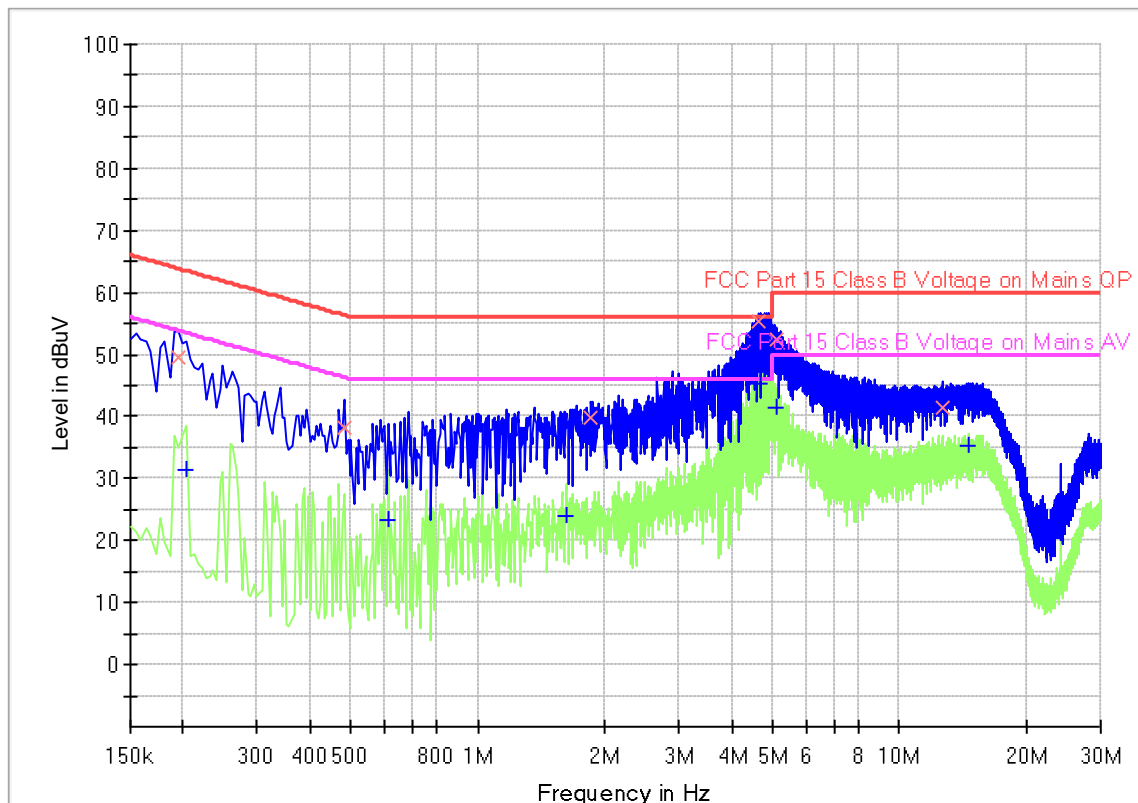
According to §15.207 & RSS-GEN 8.8, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency

Conducted Emission

Product Type : Intelligent Lawn Mower
 M/N : S1 Ultra
 Operating Condition : Transmit mode, Tx_2480MHz, $\pi/4$ -DQPSK (worst case)
 Test Specification : L-line
 Comment : 120V~, 60Hz by charging mode

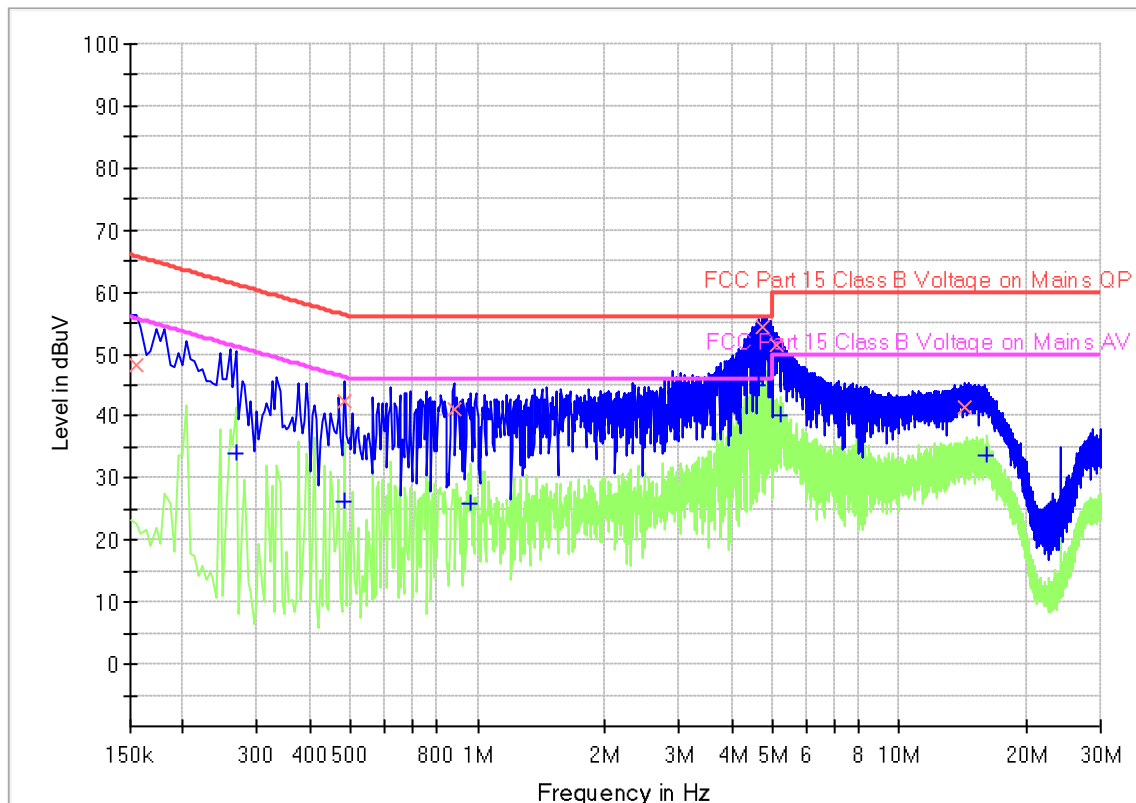


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	49.49	---	63.82	14.33	1000.0	9.000	L1	19.3
0.204000	---	31.47	53.45	21.98	1000.0	9.000	L1	19.3
0.483000	38.26	---	56.29	18.03	1000.0	9.000	L1	19.4
0.613500	---	23.34	46.00	22.66	1000.0	9.000	L1	19.4
1.617000	---	24.13	46.00	21.87	1000.0	9.000	L1	19.4
1.860000	39.86	---	56.00	16.14	1000.0	9.000	L1	19.4
4.654500	55.37	---	56.00	0.63	1000.0	9.000	L1	19.5
4.681500	---	45.38	46.00	0.62	1000.0	9.000	L1	19.5
5.131500	52.53	---	60.00	7.47	1000.0	9.000	L1	19.5
5.131500	---	41.57	50.00	8.43	1000.0	9.000	L1	19.5
12.682500	41.58	---	60.00	18.42	1000.0	9.000	L1	19.7
14.631000	---	35.15	50.00	14.85	1000.0	9.000	L1	19.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

Product Type : Intelligent Lawn Mower
 M/N : S1 Ultra
 Operating Condition : Transmit mode, Tx_2480MHz, $\pi/4$ -DQPSK (worst case)
 Test Specification : N-line
 Comment : 120V~, 60Hz by charging mode



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	48.31	---	65.75	17.44	1000.0	9.000	N	19.5
0.267000	---	33.93	51.21	17.28	1000.0	9.000	N	19.4
0.483000	---	26.08	46.29	20.21	1000.0	9.000	N	19.5
0.483000	42.35	---	56.29	13.94	1000.0	9.000	N	19.5
0.879000	41.06	---	56.00	14.94	1000.0	9.000	N	19.4
0.964500	---	25.81	46.00	20.19	1000.0	9.000	N	19.4
4.654500	---	44.89	46.00	1.11	1000.0	9.000	N	19.5
4.726500	54.45	---	56.00	1.55	1000.0	9.000	N	19.5
5.131500	51.60	---	60.00	8.40	1000.0	9.000	N	19.5
5.203500	---	39.99	50.00	10.01	1000.0	9.000	N	19.5
14.302500	41.46	---	60.00	18.54	1000.0	9.000	N	19.7
16.179000	---	33.63	50.00	16.37	1000.0	9.000	N	19.8

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

10.2 Conducted Peak Output Power & EIRP

Test Method for conducted peak power

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following test receiver settings:
Span = approximately 5 times the 20dB bandwidth, centered on a hopping channel
RBW > the 20dB bandwidth of the emission being measured, VBW ≥ RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power and record the results in the test report.
5. Repeat above procedures until all frequencies measured were complete.

Limits

According to §15.247 (b) (1) & RSS-247 6.2.3.2(a), conducted peak output power limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

According to & RSS-247 6.2.3.2(c), EIRP limit as below:

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤4	≤36

Remark: EIRP=Conducted output power + Antenna Gain

Conducted Peak Output Power

Bluetooth Mode GFSK modulation Test Result

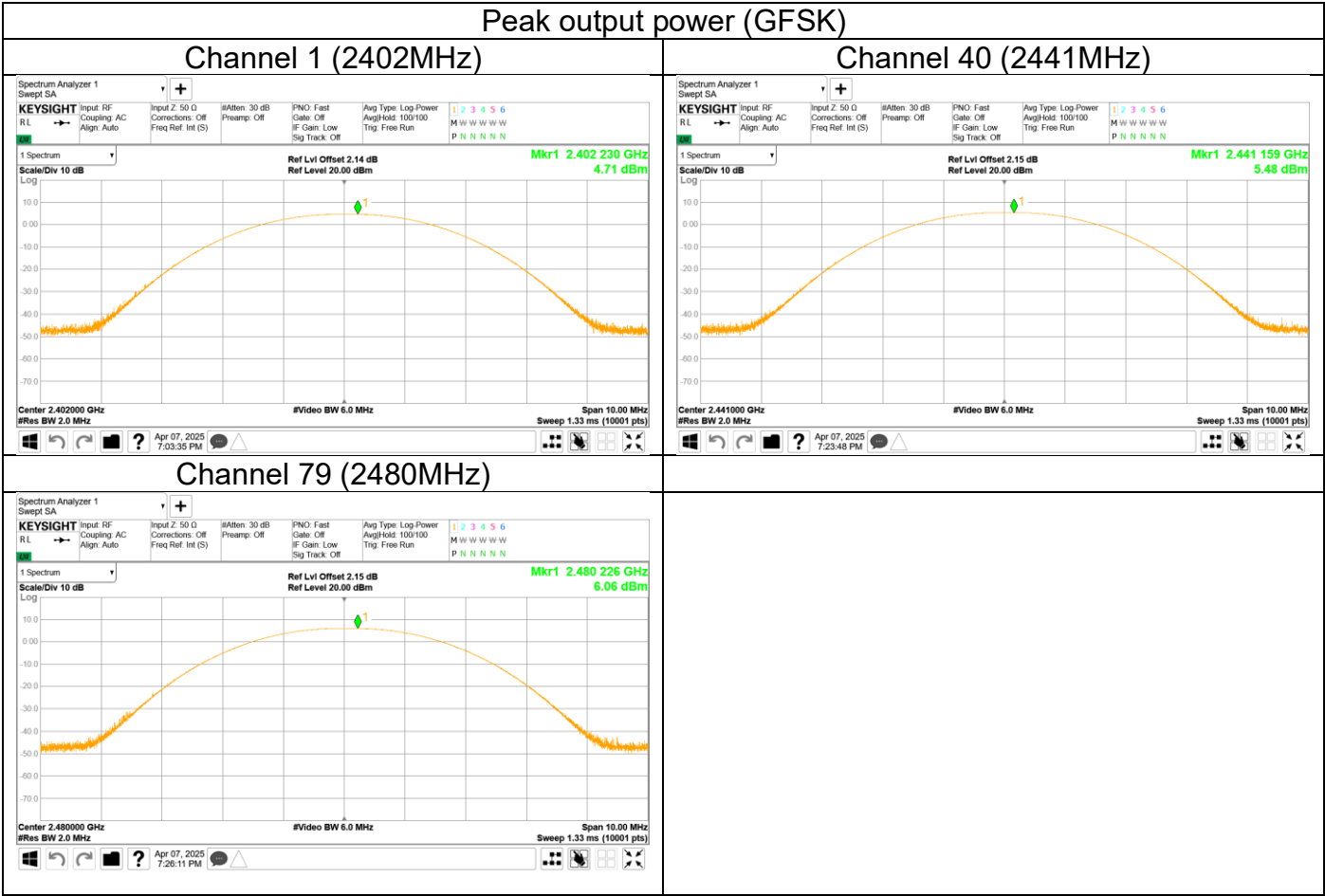
Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	4.71	5.12	9.83	Pass
Middle channel 2441MHz	5.48	5.12	10.6	Pass
High channel 2480MHz	6.06	5.12	11.18	Pass

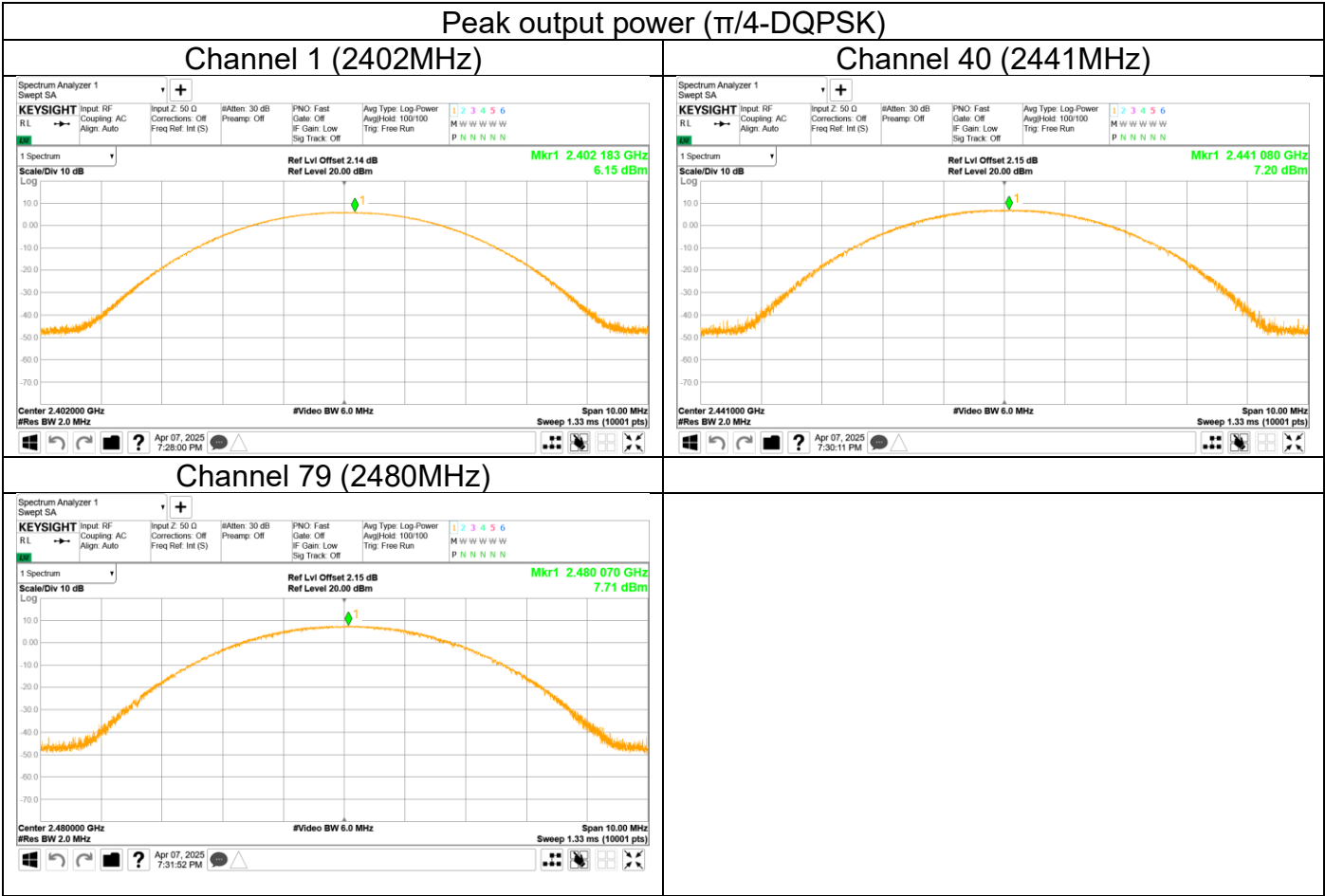
Bluetooth Mode $\pi/4$ -DQPSK modulation Test Result

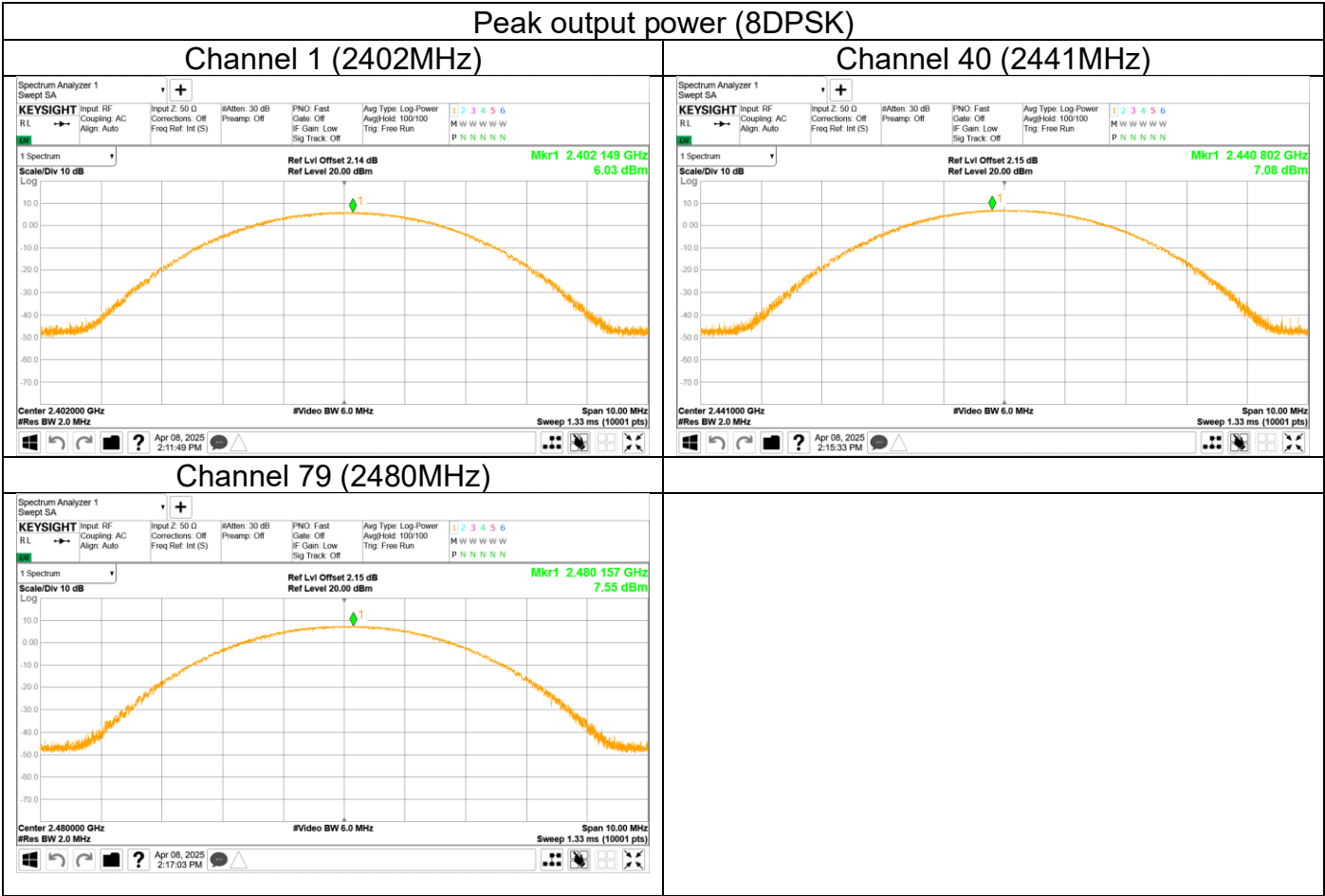
Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	6.15	5.12	11.27	Pass
Middle channel 2441MHz	7.2	5.12	12.32	Pass
High channel 2480MHz	7.71	5.12	12.83	Pass

Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Antenna Gain dBi	EIRP dBm	Result
Low channel 2402MHz	6.03	5.12	11.15	Pass
Middle channel 2441MHz	7.08	5.12	12.2	Pass
High channel 2480MHz	7.56	5.12	12.68	Pass







10.320 dB bandwidth and 99% Occupied Bandwidth

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following test receiver settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq 1\%$ to 5% of the 20 dB bandwidth/99% OBW, VBW ≥ 3 RBW,
Sweep = auto, Detector function = peak, Trace = max hold
4. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Measure the frequency difference of two frequencies that were attenuated 20 dB/99% OBW from the reference level. Record the frequency difference as the emission bandwidth. Record the results.
5. Repeat above procedures until all frequencies measured were complete.

Limit

Limit [kHz]

N/A

20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode GFSK Modulation test result

Frequency MHz	20 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz	Result
2402	1.037	0.914	--	Pass
2441	1.014	0.918	--	Pass
2480	1.04	0.927	--	Pass

20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode $\pi/4$ -DQPSK Modulation test result

Frequency MHz	20 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz	Result
2402	1.35	1.221	--	Pass
2441	1.348	1.186	--	Pass
2480	1.339	1.182	--	Pass

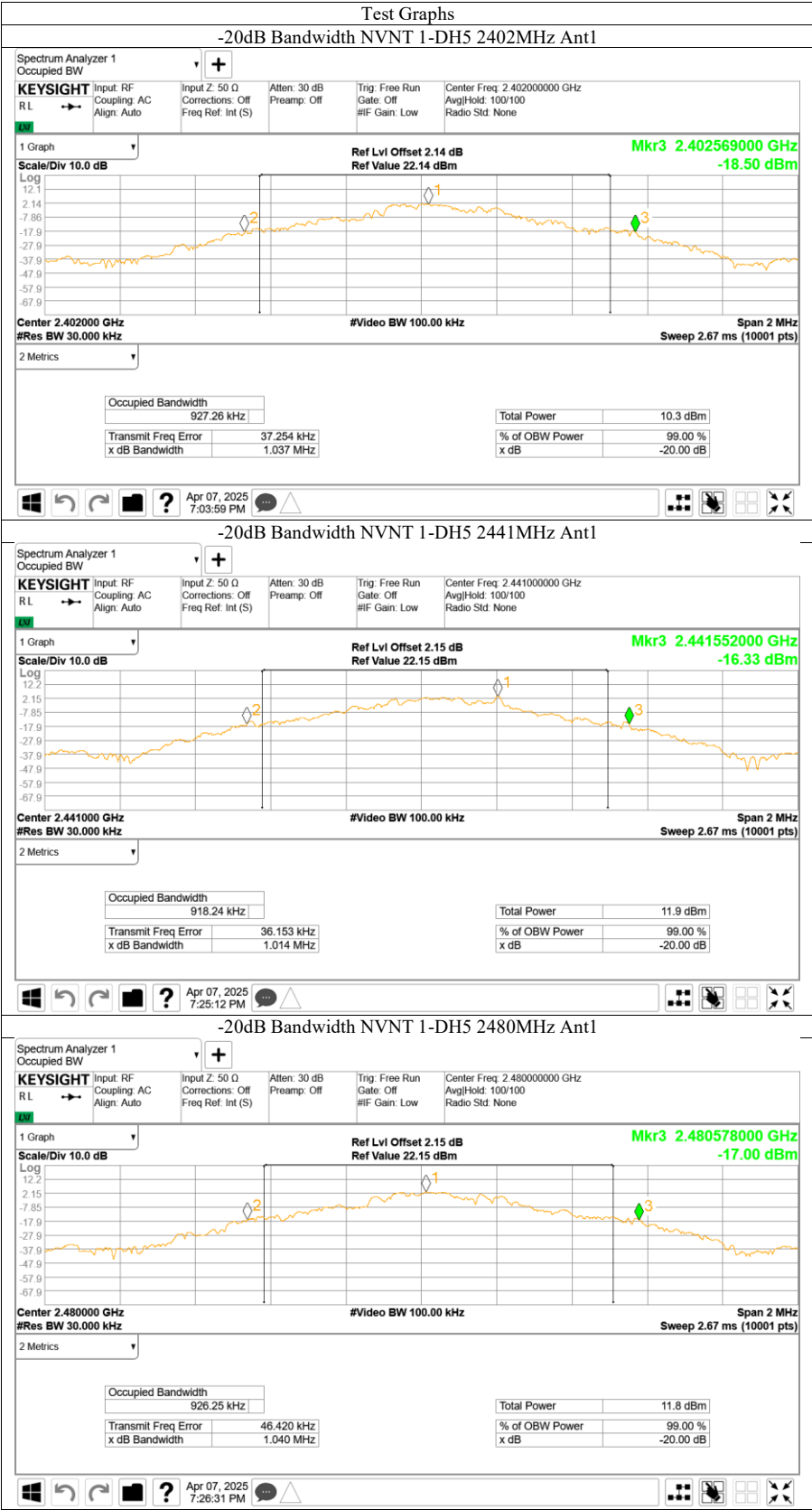
20 dB bandwidth and 99% Occupied Bandwidth

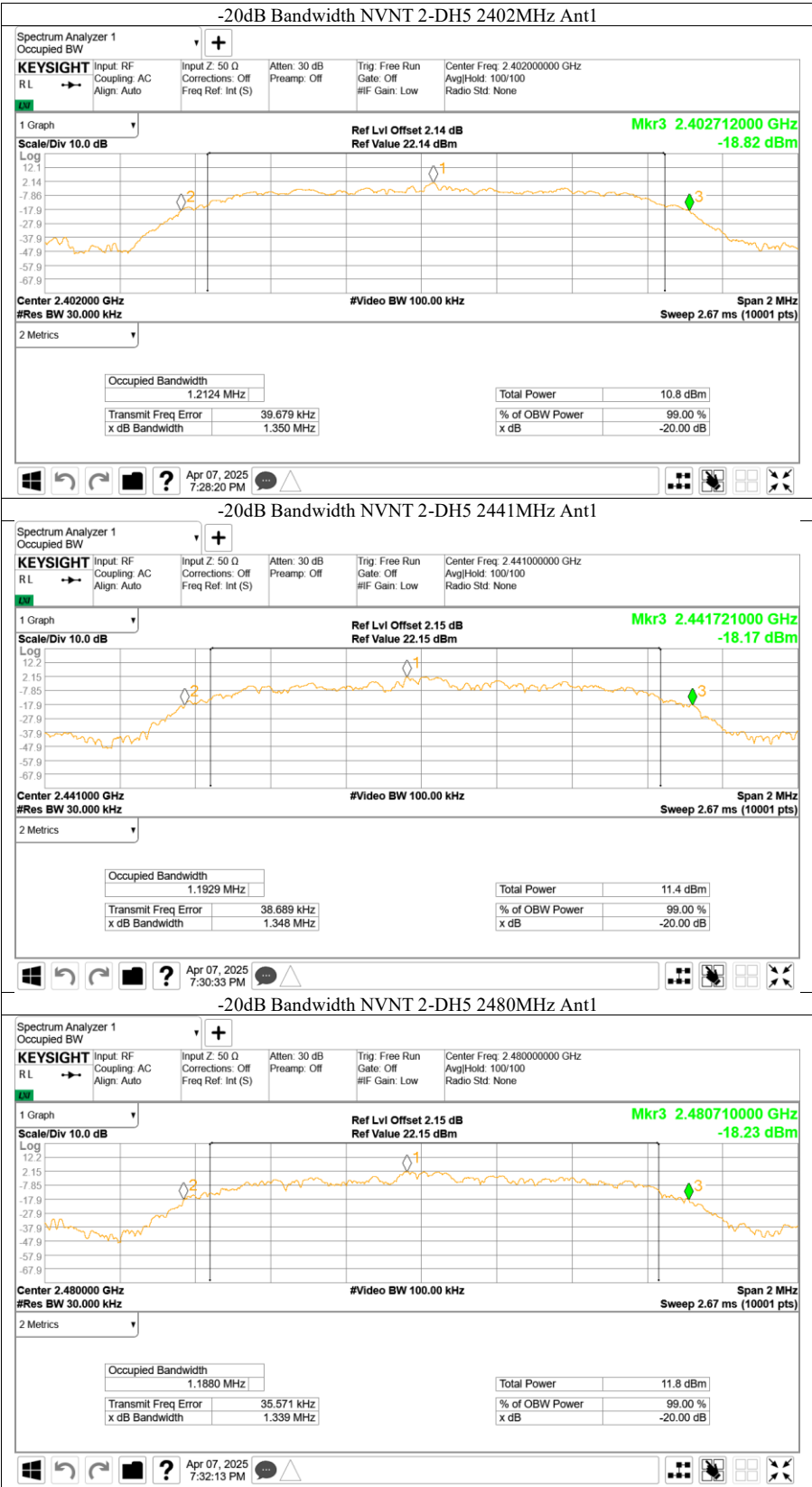
Bluetooth Mode 8DPSK Modulation test result

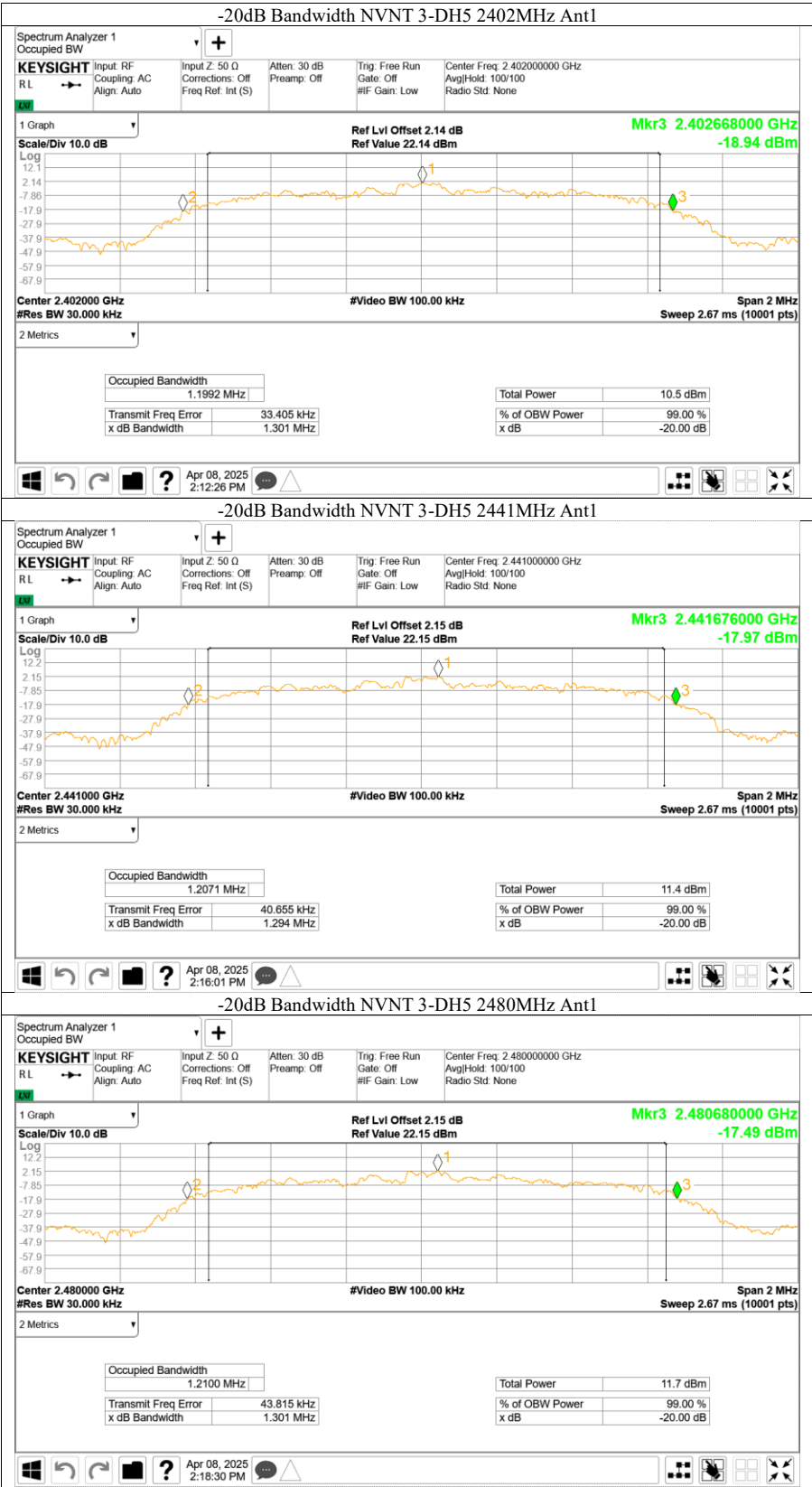
Frequency MHz	20 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz	Result
2402	1.301	1.191	--	Pass
2441	1.294	1.204	--	Pass
2480	1.301	1.209	--	Pass



-20dB Bandwidth

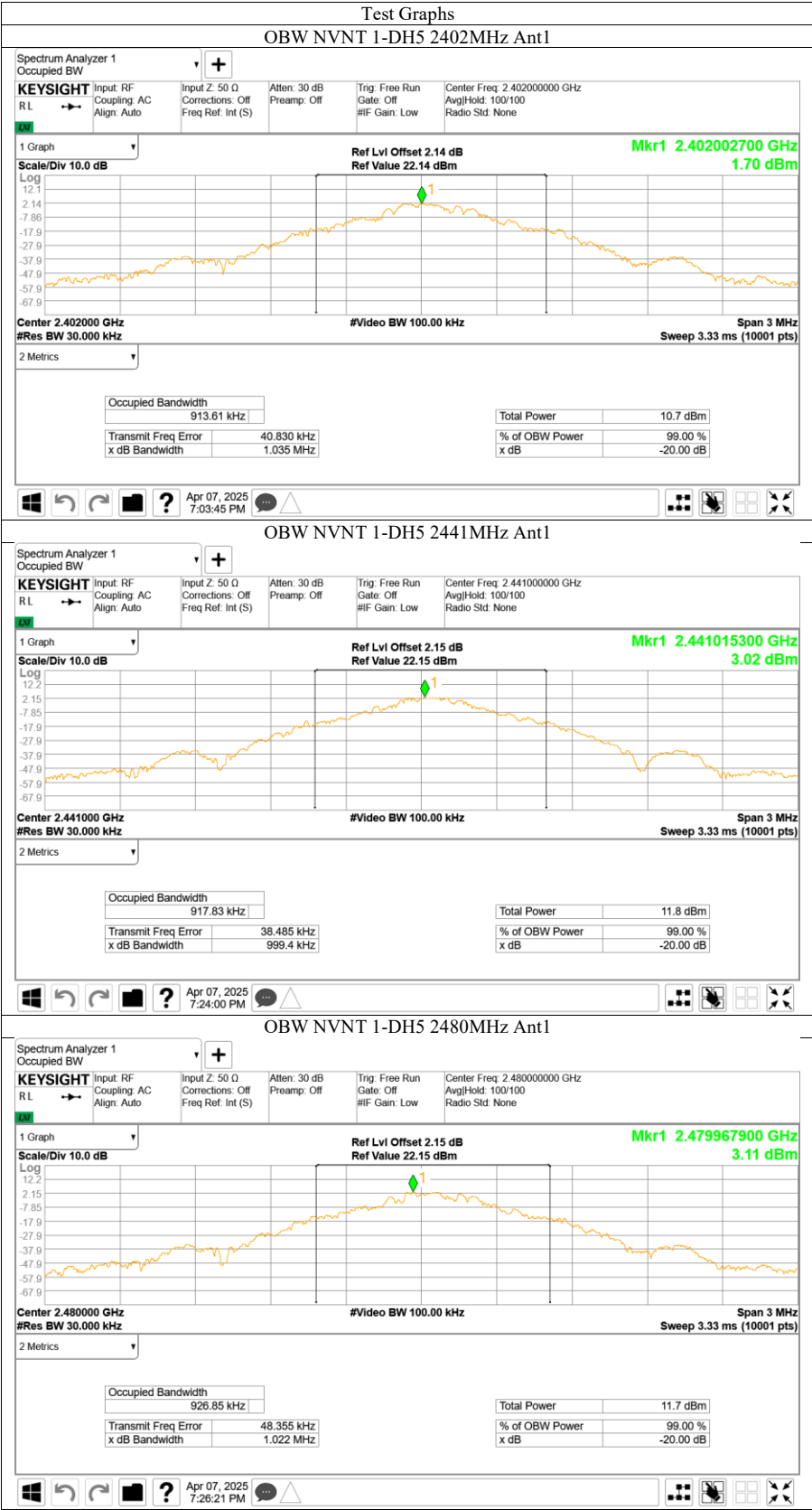


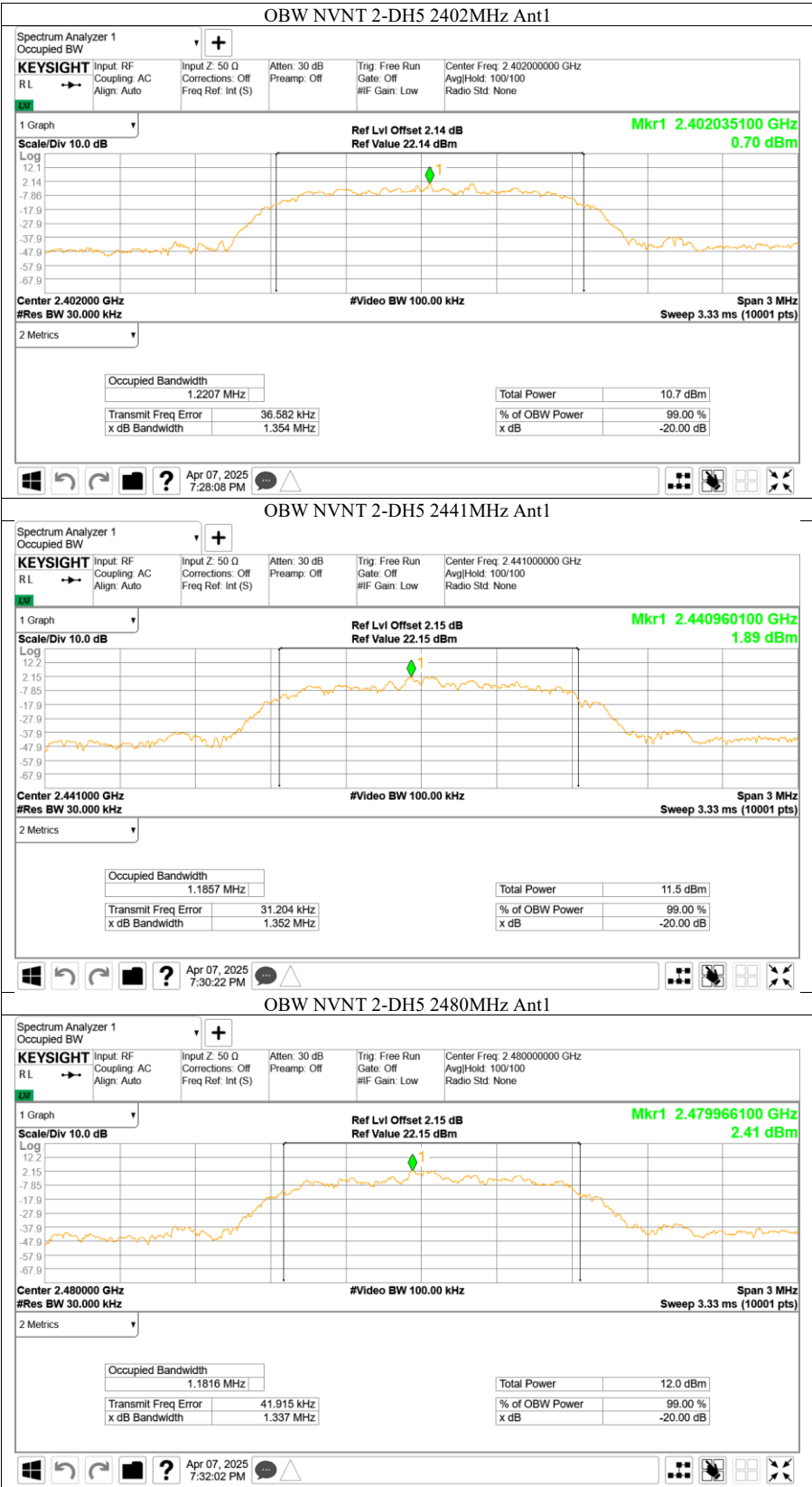


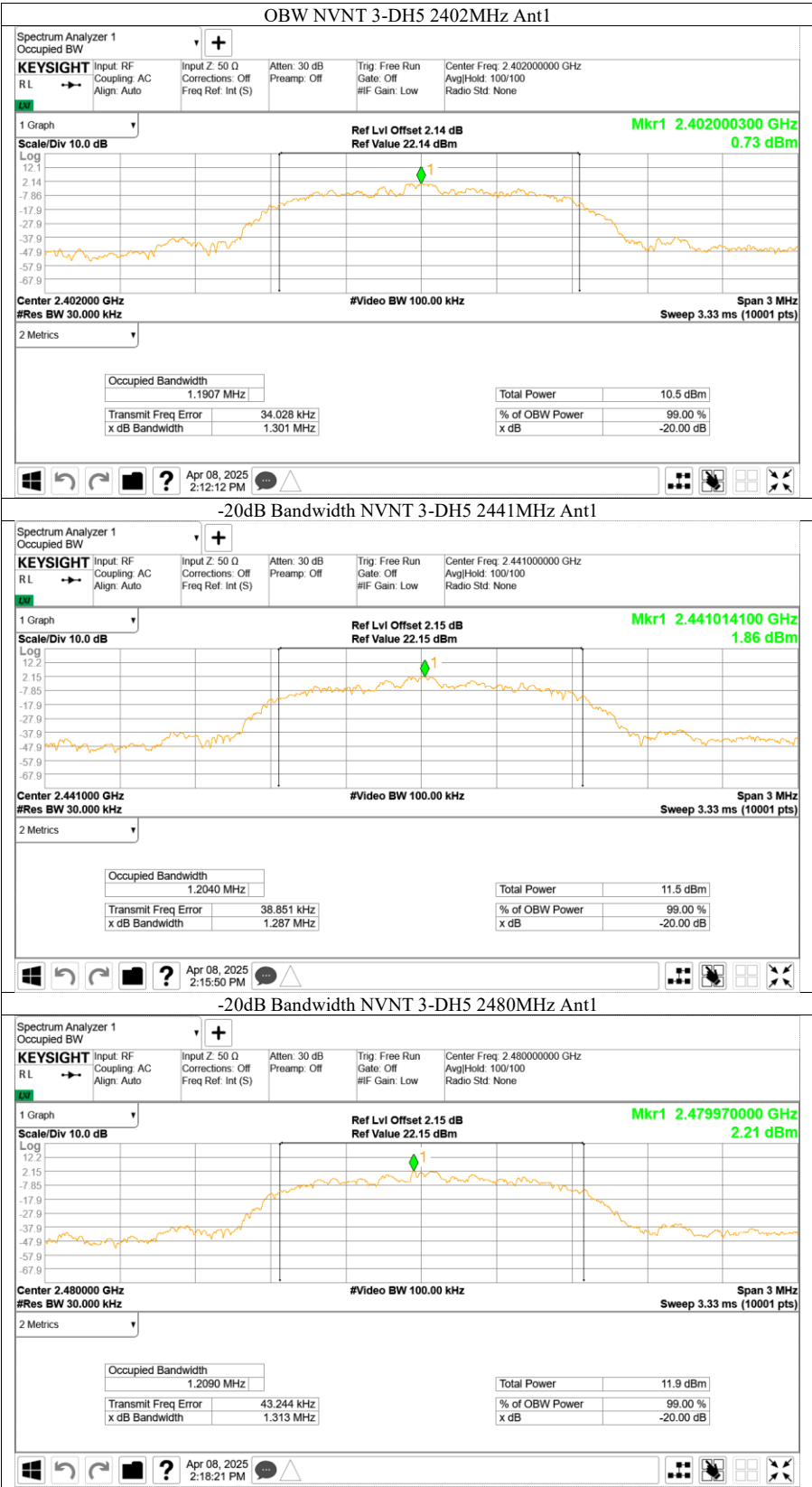




99% Occupied Bandwidth







10.4 Carrier Frequency Separation

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels, RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. VBW $\geq$ RBW, Sweep = auto, Detector function = peak.
4. By using the Max-Hold function record the separation of two adjacent channels.
5. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function. Record the results.
6. Repeat above procedures until all frequencies measured were complete.

Limit

Limit
kHz

$\geq 25\text{kHz}$ or $2/3$ of the 20 dB bandwidth which is greater

Limit

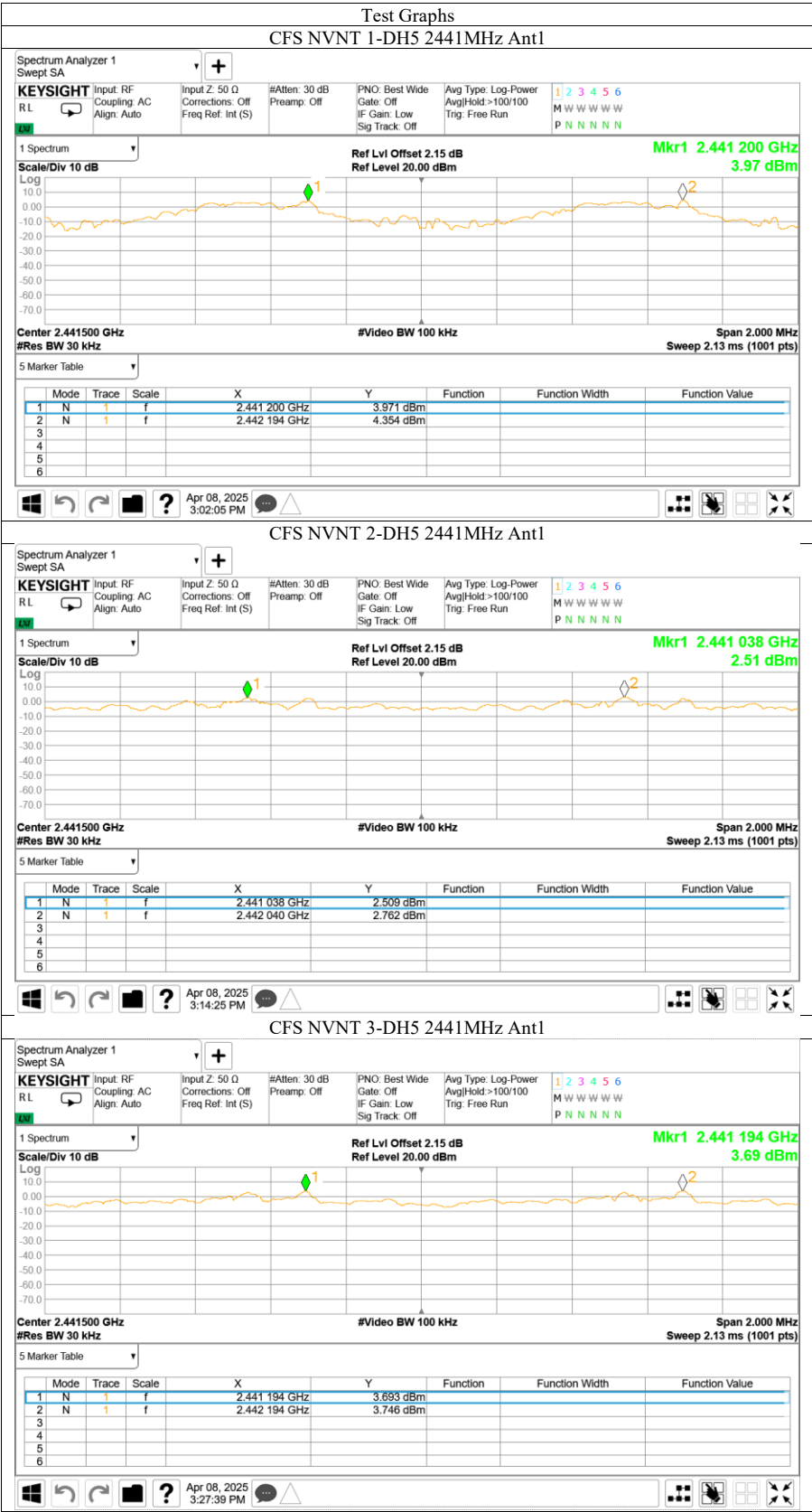
Modulation	Frequency MHz	2/3 of 20 dB Bandwidth MHz
GFSK	2441	0.676
$\pi/4$ -DQPSK	2441	0.899
8DPSK	2441	0.863

Carrier Frequency Separation

Test result: The measurement was performed with the typical configuration (normal hopping status), here GFSK, $\pi/4$ -DQPSK and 8DPSK modulation mode (low channel) was used to show compliance.

GFSK Modulation test result

Modulation	Frequency MHz	Carrier Frequency Separation MHz	Result
GFSK	2441	0.994	Pass
$\pi/4$ -DQPSK	2441	1.002	Pass
8DPSK	2441	1	Pass



10.5 Number of hopping frequencies

Test Method

1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
3. Use the following spectrum analyzer settings:
Span = the frequency band of operation, RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller, VBW $\geq$ RBW, Sweep = auto, Detector function = peak, Trace=Max hold.
4. Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

Limit

Limit
number

 ≥ 15



Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
79	Pass

