

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25DLD4 001	Auftrags-Nr.: <i>Order no.:</i>	48256620	Seite 1 von 32 Page 1 of 32
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2025-01-08	
Auftraggeber: <i>Client:</i>	Roland Corporation 1-5-3, Shinmiyakoda, Kita-ku, Hamamatu, Shizuoka, JAPAN			
Prüfgegenstand: <i>Test item:</i>	BT V5.3 Dual Mode Bluetooth Stereo Audio Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	WB311L			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (BT)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-12-27			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003903843-003 A003903843-005			
Prüfzeitraum: <i>Testing period:</i>	2024-12-27 - 2025-02-01			
Ort der Prüfung: <i>Place of testing:</i>	EMC/RF Taipei Testing Site			
Prüflaboratorium: <i>Testing laboratory:</i>	Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
überprüft von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	Ausstellungsdatum: <i>Issue date:</i>			
Stellung / Position:	Stellung / Position:			
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>				
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.
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Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(1)	Peak Output Power	Pass
5.1.3	15.247(a)(1)	20 dB Bandwidth	Note 1
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(d)	Conducted Spurious Emission and Band Edges	Pass
5.1.5	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.1.6	15.247(a)(1)	Hopping Channel Separation	Pass
5.1.7	15.247(a)(1) (iii)	Number of Hopping Frequency Used	Pass
5.1.8	15.247(a)(1) (iii)	Dwell Time on Each Channel	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note:

1. If the Frequency Hopping Systems operating in 2400-2483.5 MHz band and the output power less than 125 mW. The hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of hopping channel whichever is greater.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF CONDUCTED

APPENDIX B - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2025-02-26

1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10:2013
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

2. Test Sites

2.1 Test Laboratory

Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491
ISED Registration No.: 25563

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.30 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.30 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.54 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.52 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a BT V5.3 Dual Mode Bluetooth Stereo Audio Module. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	BT V5.3 Dual Mode Bluetooth Stereo Audio Module
Type Identification	WB311L
FCC ID	SOP427331A

Technical Specification of EUT

Item	EUT information
Operating Frequency	2402 MHz ~ 2480 MHz
Channel Number	79
Operation Voltage	3.3 Vdc
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK
Maximum Output Power (mW)	12.882
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting		
	GFSK	$\pi/4$ -DQPSK	8DPSK
2402	0x47	0x4b	0x4b
2441	0x47	0x4b	0x4b
2480	0x47	0x4b	0x4b

4.2 Carrier Frequency and Channel

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

4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	RTLBAPP Version :5.2.3.77
---------------	---------------------------

The samples were used as follows:

A003903843-003

A003903843-005

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **X-plane**.
2. "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2402, 2441, 2480	GFSK	1DH5
-	2402 to 2480	2402, 2441, 2480	$\pi/4$ -DQPSK	2DH5
-	2402 to 2480	2402, 2441, 2480	8DPSK	3DH5

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2402, 2441, 2480	GFSK	1DH5
-	2402 to 2480	2402, 2441, 2480	8DPSK	3DH5

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2441	8DPSK	3DH5

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Mains Conducted Emission Test

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Modulation Type	Packet Type
-	2402 to 2480	2441	8DPSK	3DH5

Test Condition

Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22.5-23.2 °C	58-62 %	Nick Guan
Radiated Spurious Emissions above 1 GHz	24.1-25.2 °C	55-56 %	Roger Liao
Radiated Spurious Emissions below 1 GHz	24.1-25.2 °C	55-56 %	Roger Liao
Mains Conducted Emission	21.2 °C	58 %	Roger Liao

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

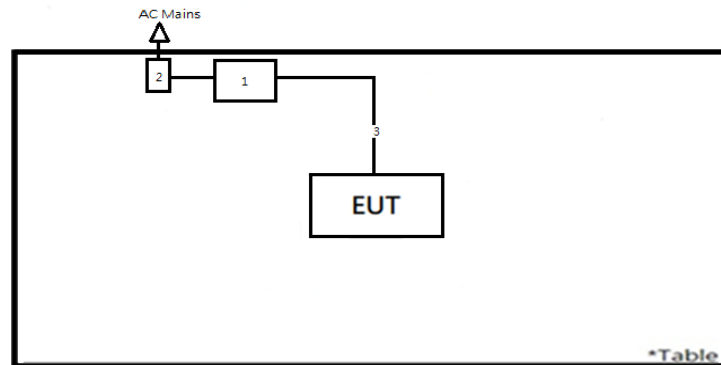
None

Support Unit

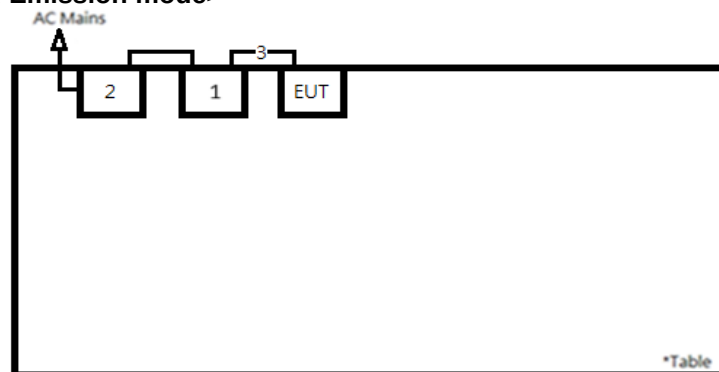
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	Notebook	HP	15s-du0007TX	CND93662VF	-	-	-	--
2	AC Adapter	HP	TPN-CA16	N/A	-	-	-	--
3	USB to Micro	TUV	TUV-02	N/A	NO	NO	100	--
-	Notebook	LENOVO	TP00094A	PF-1GT015	-	-	-	--
-	USB Cable	TUV	TUV-07	1	NO	NO	100	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>

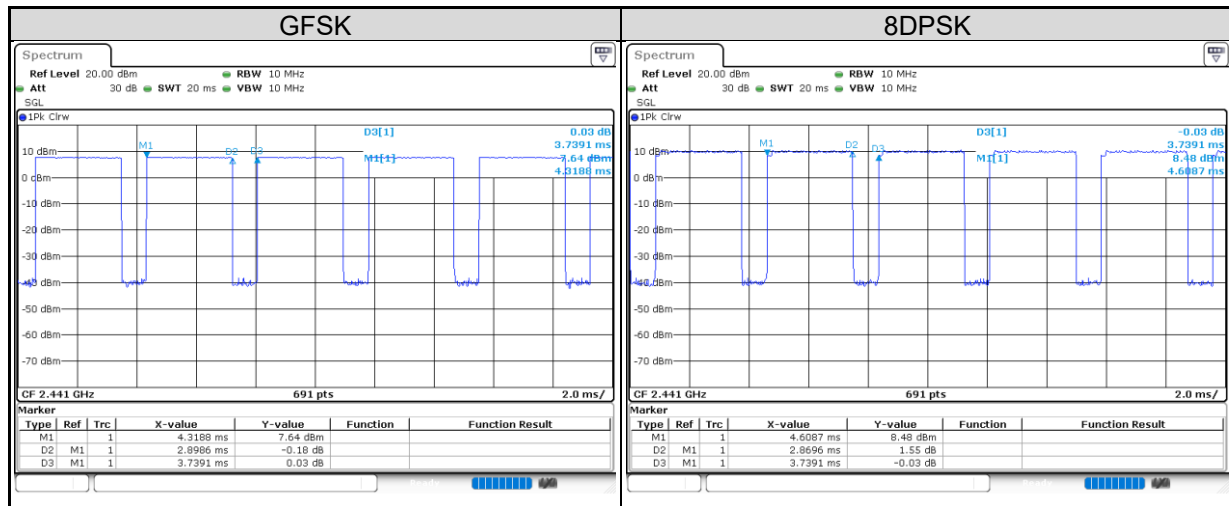


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4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
GFSK	3.739	2.899	77.52	1.11
8DPSK	3.739	2.870	76.75	1.15



5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 2.1 dBi. The antenna is a PCB antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

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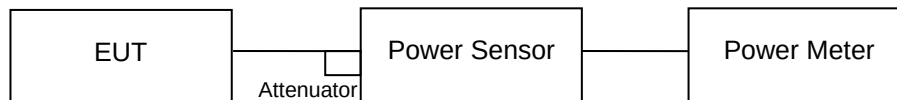
5.1.2 Peak Output Power

Limit

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.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2024/03/12	2025/03/11	2024/12/27	2025/1/21
Power Sensor	Anritsu	MA2411B	1725269	2024/03/12	2025/03/11	2024/12/27	2025/1/21

Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Test Result

Peak Output Power

<GFSK>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(mW)
Low Channel	2402	8.19	6.592	125
Middle Channel	2441	8.49	7.063	125
High Channel	2480	8.34	6.823	125

< $\pi/4$ -DQPSK>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(mW)
Low Channel	2402	10.40	10.965	125
Middle Channel	2441	10.67	11.668	125
High Channel	2480	10.51	11.246	125

<8DPSK>

Channel	Channel Frequency	Peak Output Power		Limit
	(MHz)	(dBm)	(mW)	(mW)
Low Channel	2402	10.83	12.106	125
Middle Channel	2441	11.10	12.882	125
High Channel	2480	10.95	12.445	125

Average Power

<GFSK>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	8.04	6.368
Middle Channel	2441	8.33	6.808
High Channel	2480	8.19	6.592

< π /4-DQPSK>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	8.18	6.577
Middle Channel	2441	8.46	7.015
High Channel	2480	8.27	6.714

<8DPSK>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2402	8.19	6.592
Middle Channel	2441	8.47	7.031
High Channel	2480	8.29	6.745

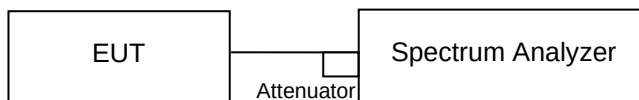
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5.1.3 20 dB Bandwidth and 99% Occupied Bandwidth

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2024/05/09	2025/05/08	2024/12/27	2025/1/21

Test Procedure

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.
- The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

Test Results

Please refer to Appendix A.

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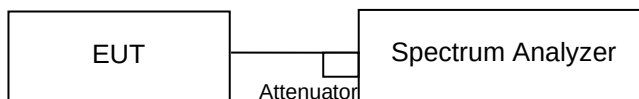
5.1.4 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2024/05/09	2025/05/08	2024/12/27	2025/1/21

Test Procedure

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

Test Results

Please refer to Appendix A.

5.1.5 Radiated Spurious Emissions and Band Edges

Limit

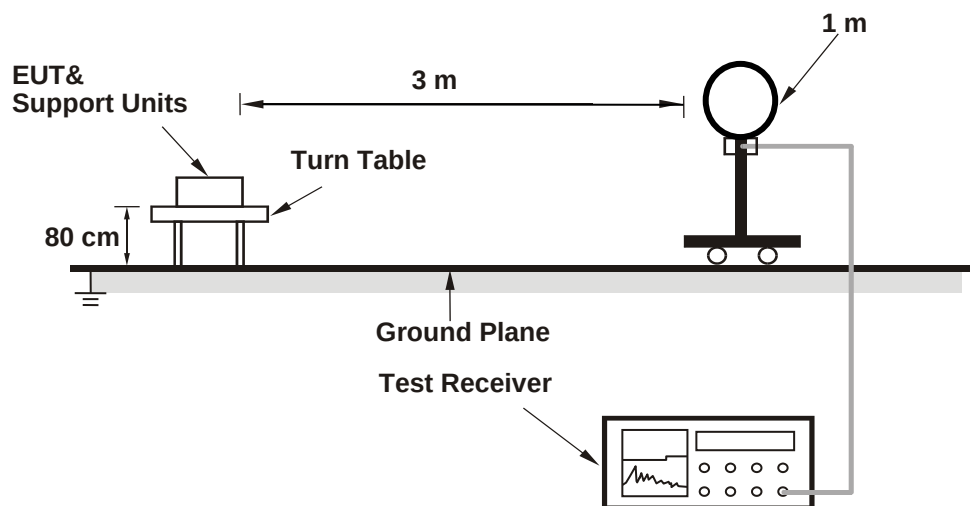
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

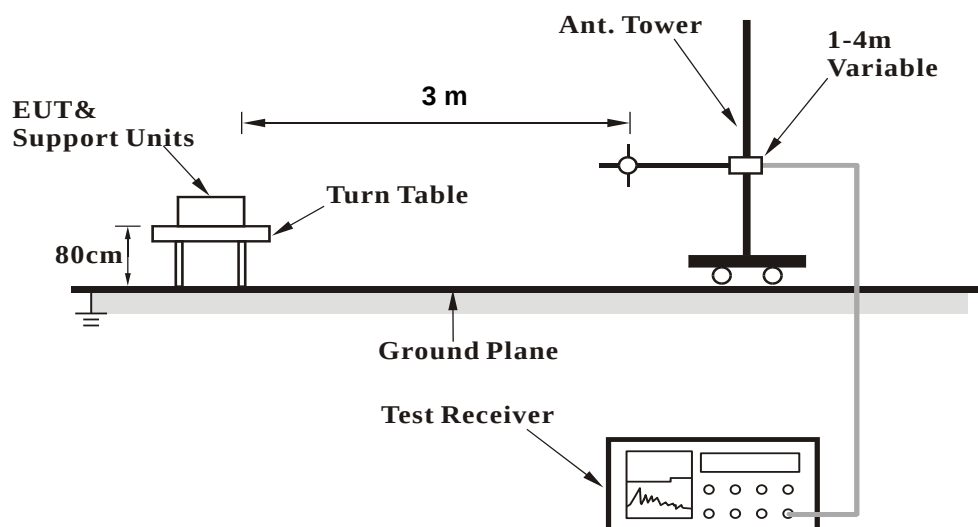
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

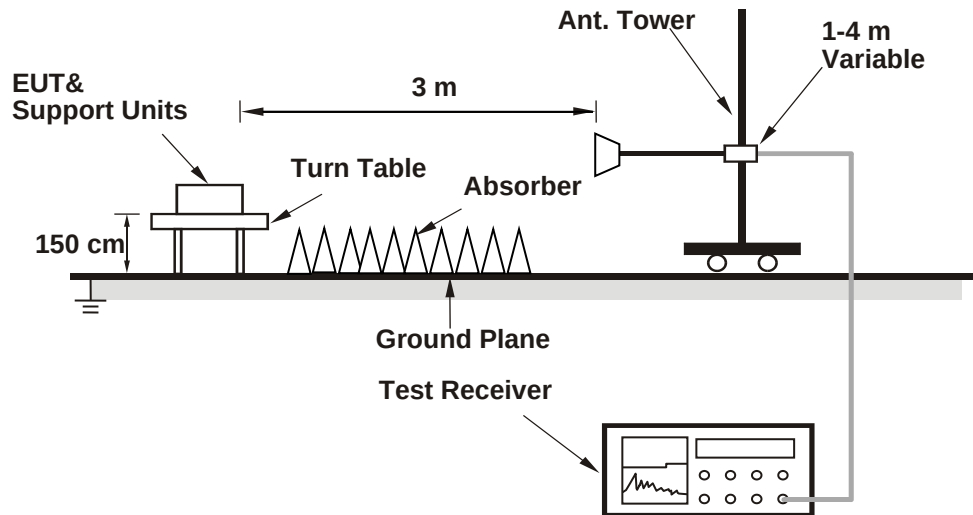
<Radiated Emissions below 30 MHz>



<Radiated Emissions 30 MHz to 1 GHz>



<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Test Period: 2025-01-17

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101508	2024/4/23	2025/4/22
Horn Antenna	ETS-Lindgren	3117	00218929	2024/11/21	2025/11/20
Amplifier	EM	EM01G18GA	060967	2024/4/2	2025/4/1
HF-AMP + AC source	EMCI	EMC184045SE	980657	2024/1/24	2025/1/22
Horn Antenna	SCHWARZBECK	BBHA 9170	00887	2024/4/1	2025/3/31
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2024/2/23	2025/2/21
Bilog Antenna	SCHWARZBECK	VULB-9168	00951	2024/3/21	2025/3/20
LF-AMP	Agilent	8447D	2944a107722	2024/3/21	2025/3/20
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
Below 30 MHz					
Receiver	R&S	ESR7	102108	2024/7/4	2025/7/3
Loop Antenna	SCHWARZBECK	FMZB 1519B	00215	2024/12/16	2025/12/15
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. For fundamental frequency: The average value is "Average = Peak value + 20log(Duty cycle)
Where the duty factor is calculated from following formula for DH5 packet type which has worst duty factor:
 $20\log(\text{Duty cycle}) = 20\log(\text{dwell time} / 100\text{ms}) = 20\log(3.125 / 100) = -30.1 \text{ dB}$

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5. All modes of operation were investigated and the worst-case emissions are reported.
6. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
7. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

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Test Report No.

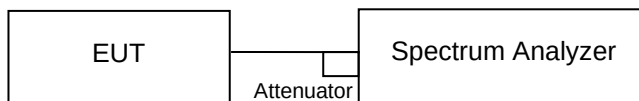
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5.1.6 Hopping Channel Separation

Limit ≥ 25 kHz or 2/3 of 20 dB bandwidth, whichever is greater

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2024/05/09	2025/05/08	2024/12/27	2025/1/21

Test Procedure

Measurement Procedure REF

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

Test Results

Please refer to Appendix A.

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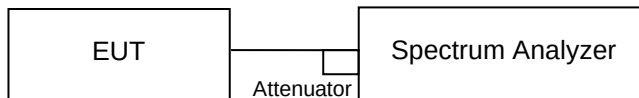
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5.1.7 Number of Hopping Frequency

Limit ≥ 15 non-overlapping channels

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2024/05/09	2025/05/08	2024/12/27	2025/1/21

Test Procedure

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

Test Results

Please refer to Appendix A.

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Test Report No.

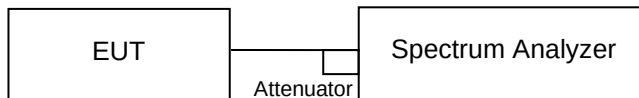
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5.1.8 Dwell Time

Limit 0.4s

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101513	2024/05/09	2025/05/08	2024/12/27	2025/1/21

Test Procedures

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.

Test Results

Please refer to Appendix A.

5.2 Mains Emission

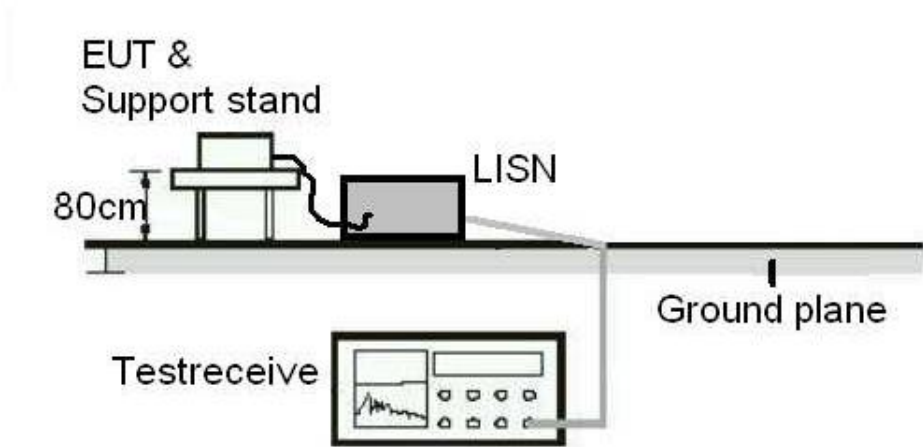
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	Rohde & Schwarz	ENV216	101938	2024/10/22	2025/10/21
EMI Test Receiver	R&S	ESCI	101094	2024/11/26	2025/11/25

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

Please refer to Appendix B.

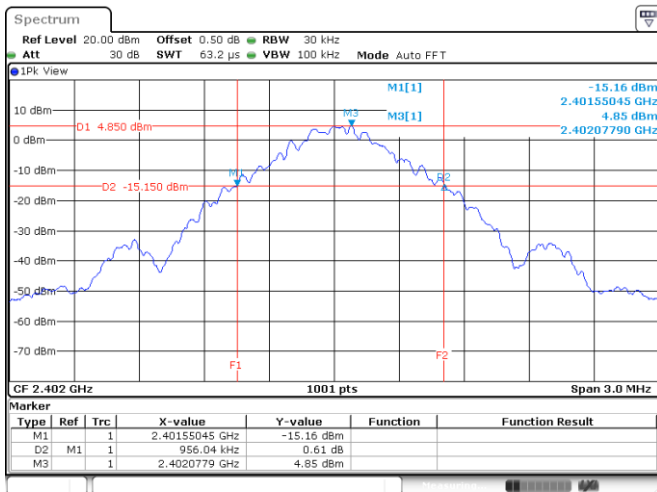
Appendix A: Test Results of Conducted Test

Test Result of 20 dB Bandwidth

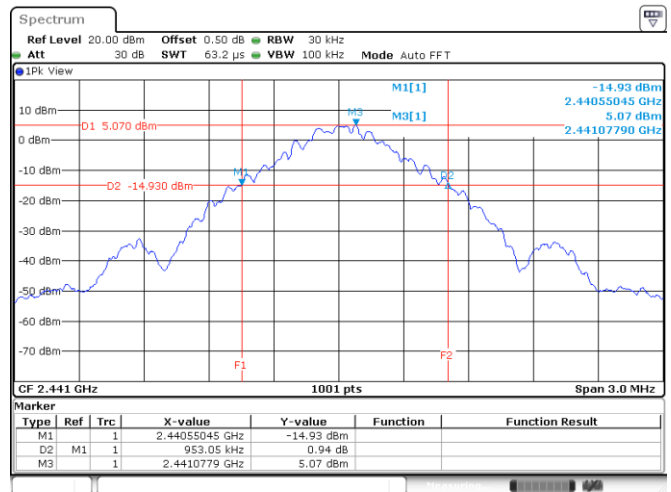
GFSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	956.04	Pass
Middle Channel	2441	953.05	Pass
High Channel	2480	959.04	Pass

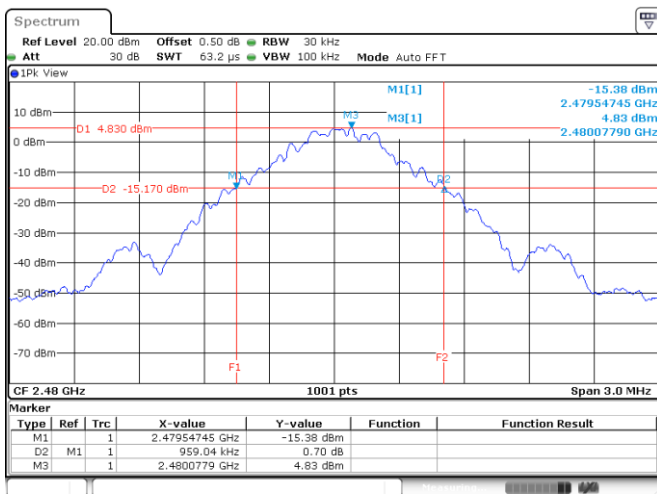
Low Channel



Middle Channel

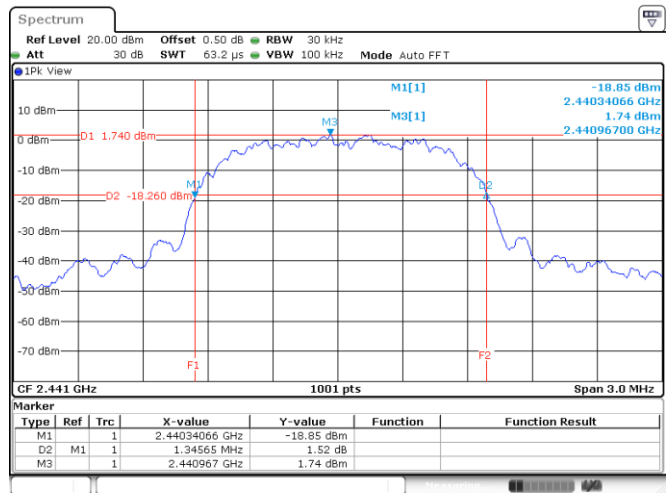
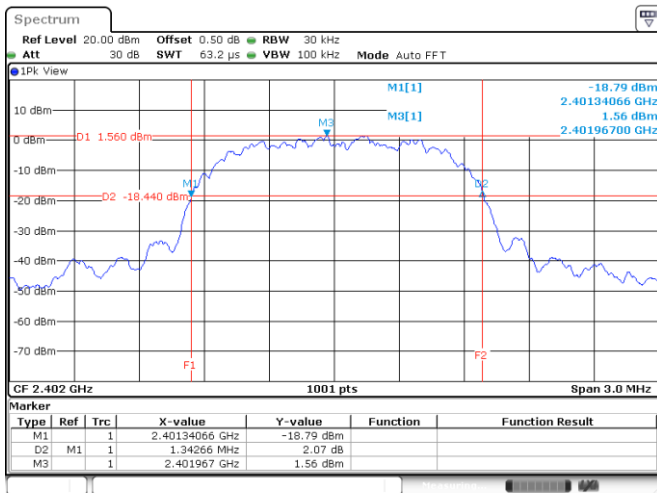
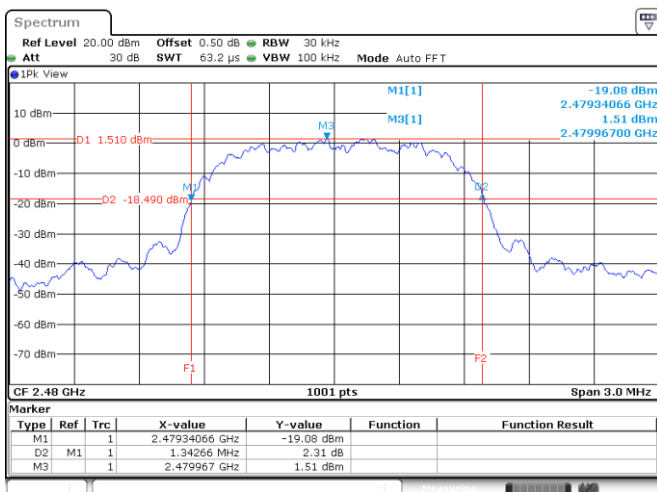


High Channel



8DPSK

Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Result
Low Channel	2402	1342.66	Pass
Middle Channel	2441	1345.65	Pass
High Channel	2480	1342.66	Pass

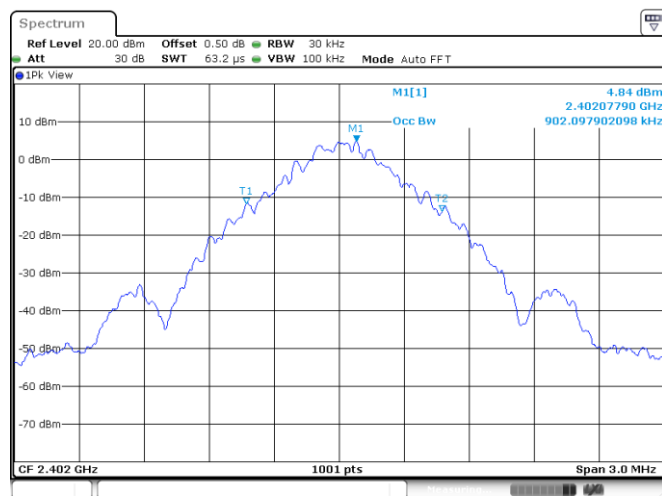
Low Channel
Middle Channel

High Channel


Test Result of 99% Occupied Bandwidth

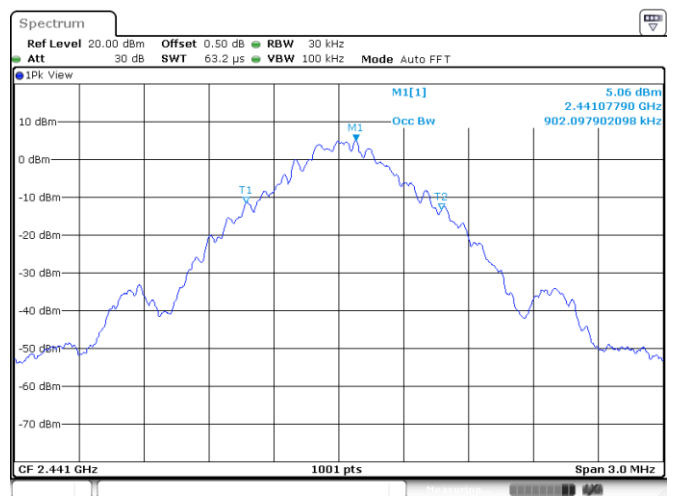
GFSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	902.10
Middle Channel	2441	902.10
High Channel	2480	902.10

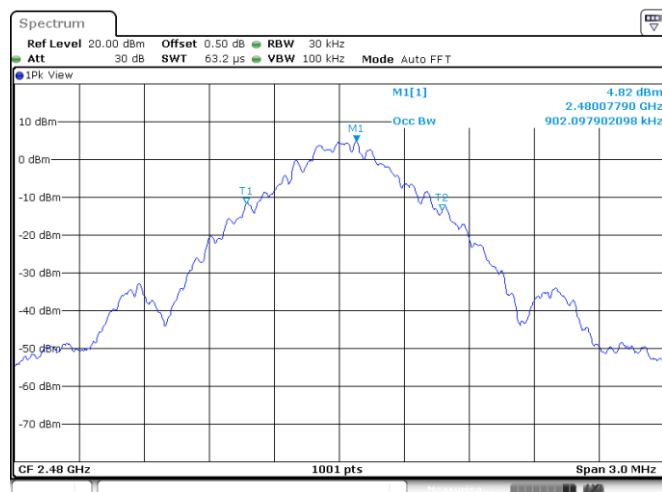
Low Channel



Middle Channel

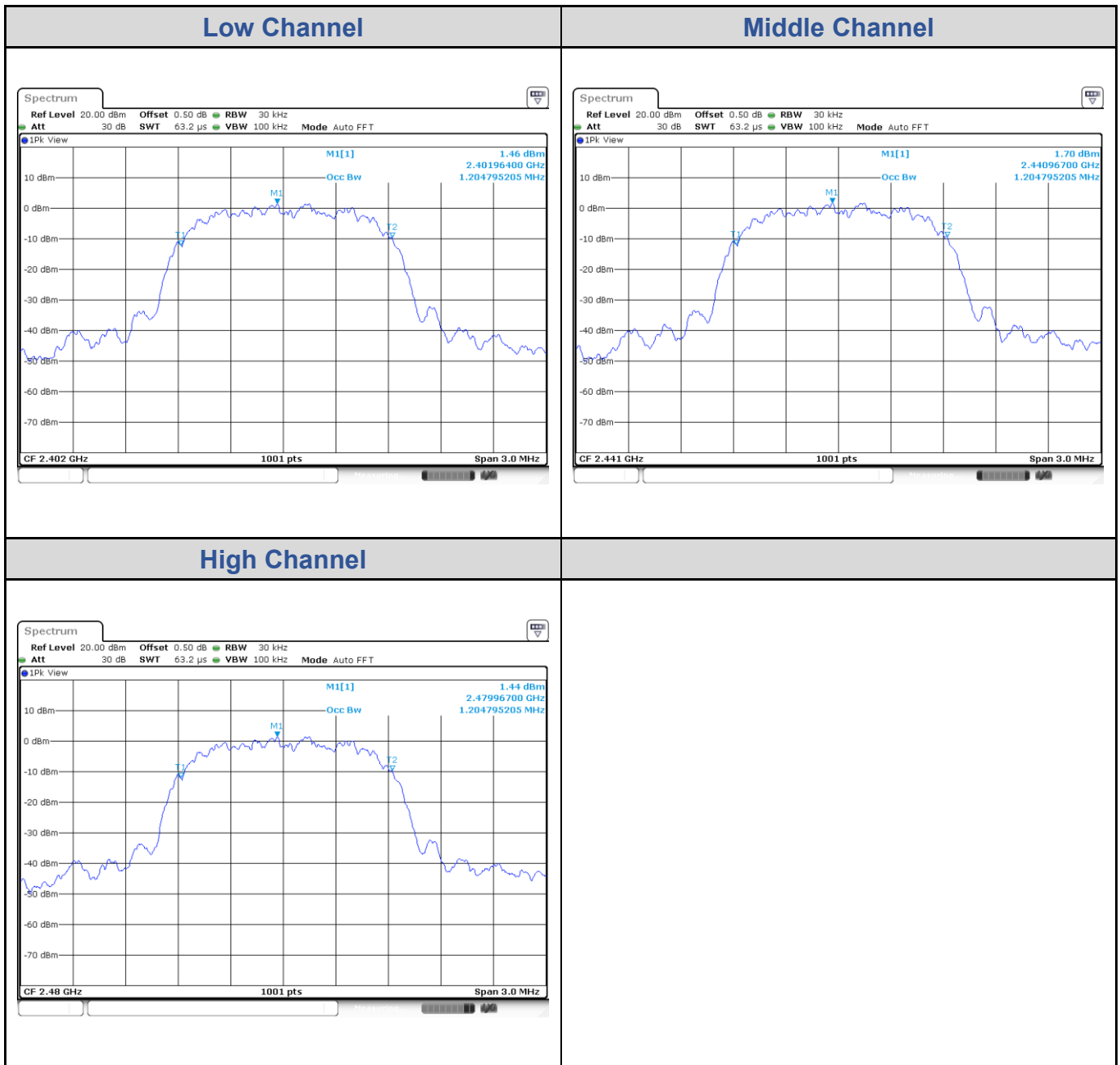


High Channel



8DPSK

Channel	Channel Frequency (MHz)	99% Bandwidth (kHz)
Low Channel	2402	1204.80
Middle Channel	2441	1204.80
High Channel	2480	1204.80

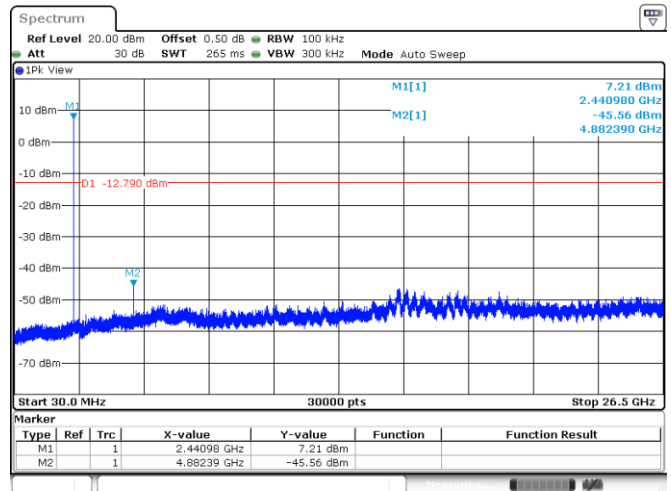
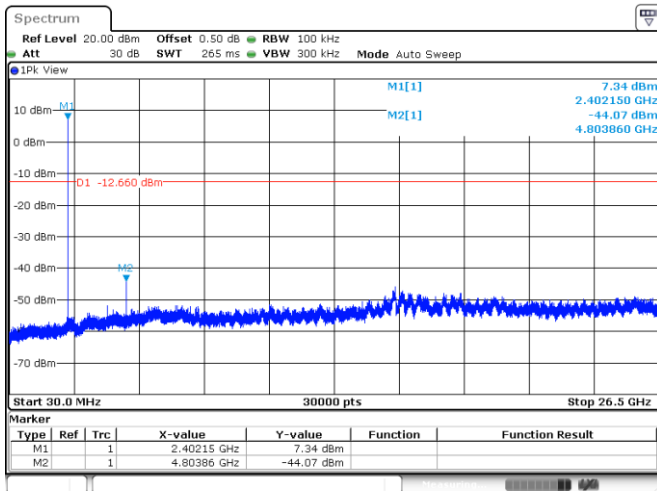


Test Result of Conducted Spurious Emissions, Tx Mode

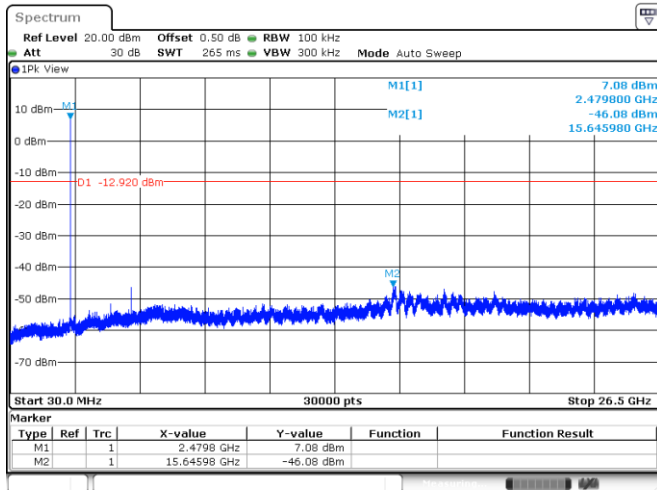
GFSK

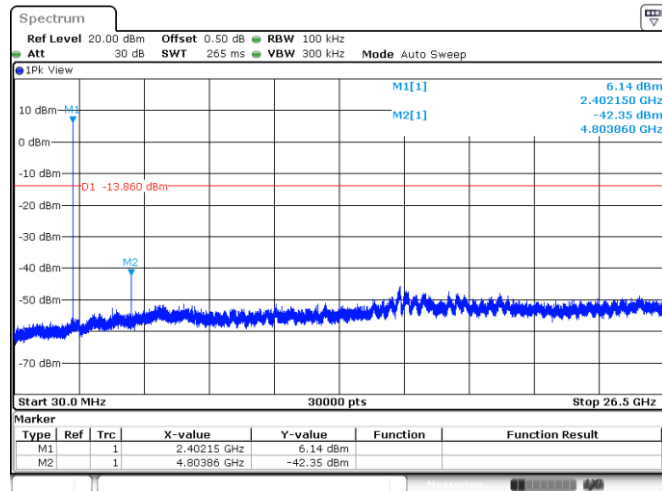
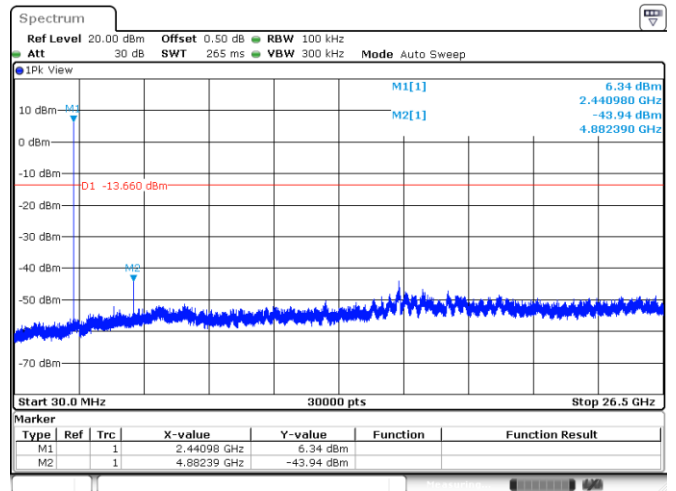
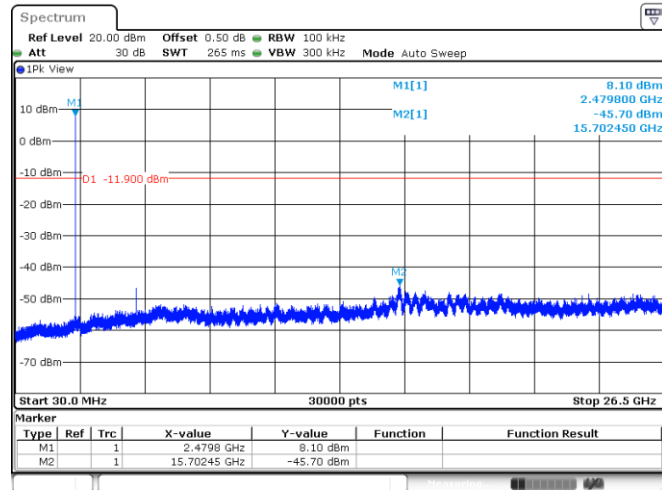
Low Channel

Middle Channel



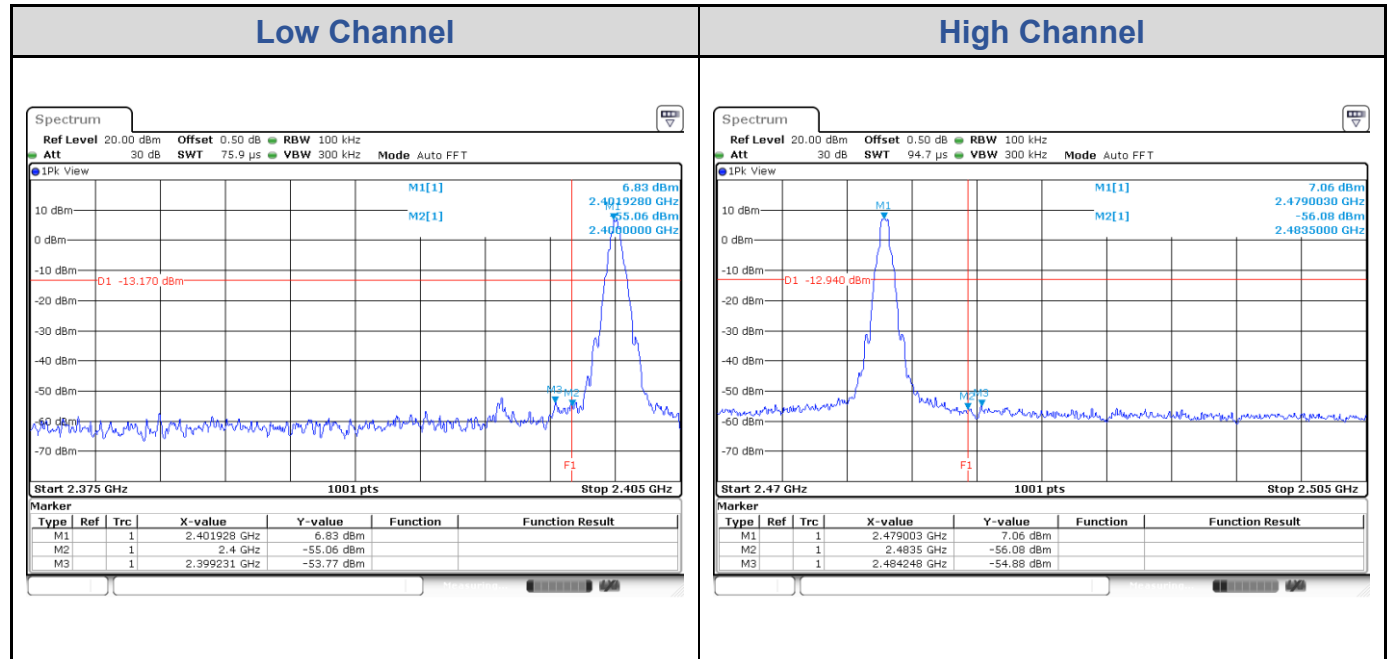
High Channel



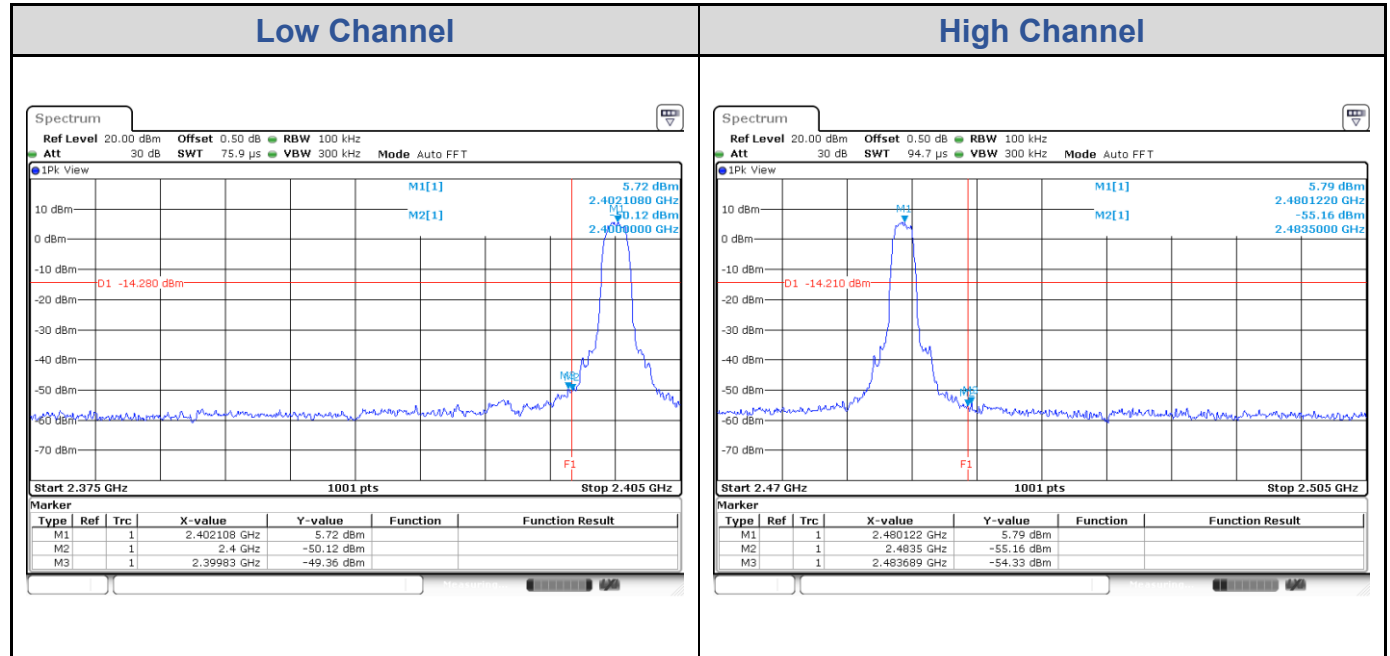
8DPSK
Low Channel

Middle Channel

High Channel


Test Result of Conducted Band Edge, Tx Mode

GFSK

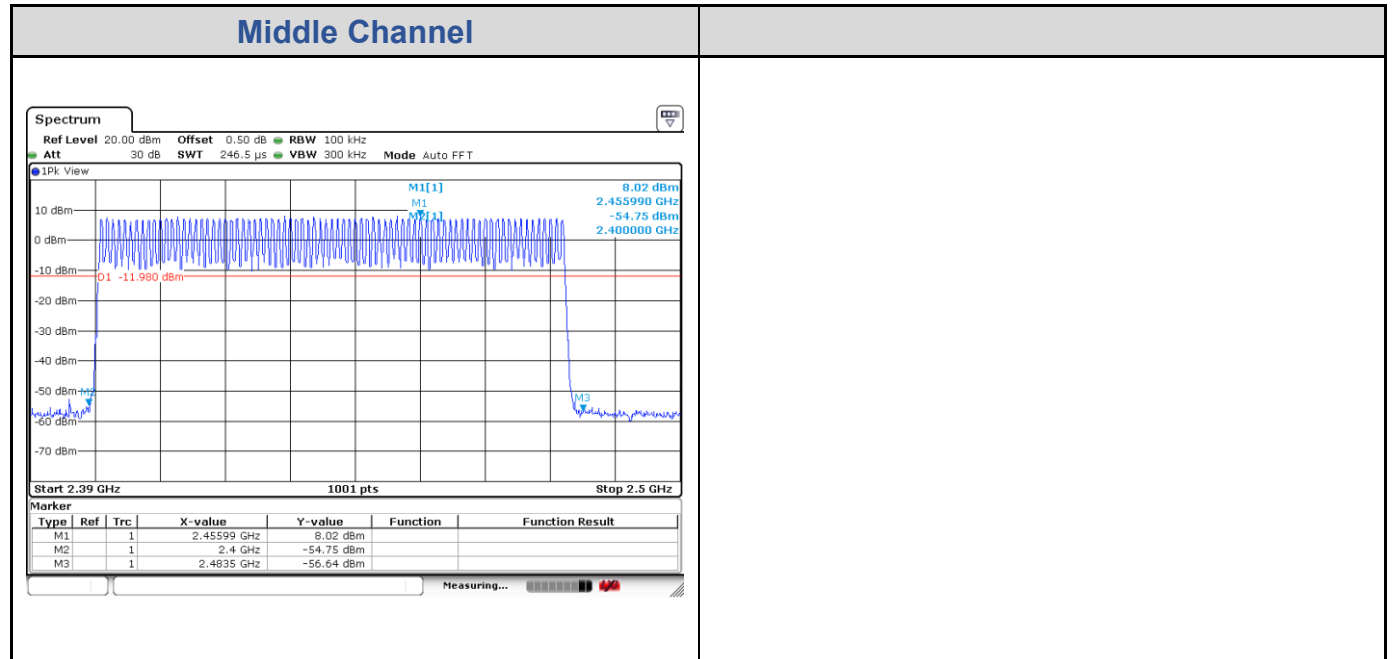


8DPSK

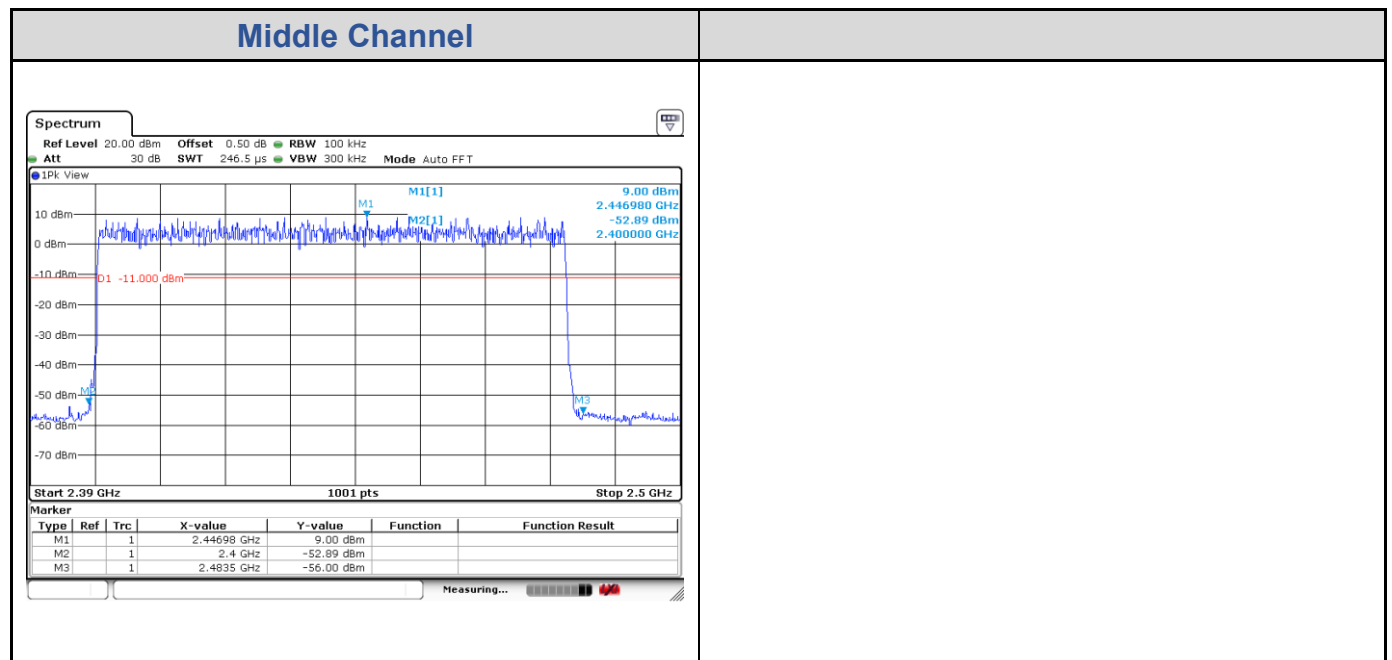


Test Result of Hopping Band Edge

GFSK



8DPSK

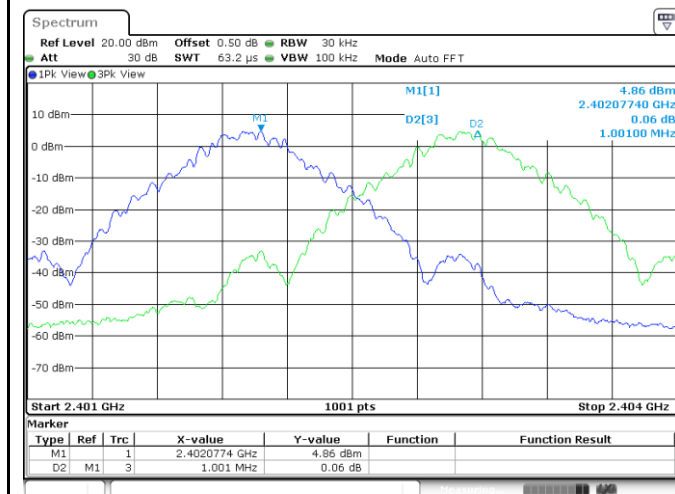


Test Result of Hopping Channel Separation

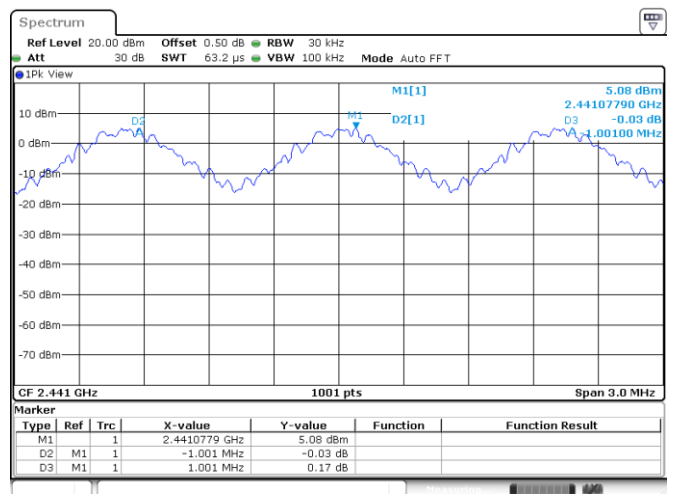
GFSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	956.04	0.637	Pass
39	2441	1.00	953.05	0.635	Pass
78	2480	1.00	959.04	0.639	Pass

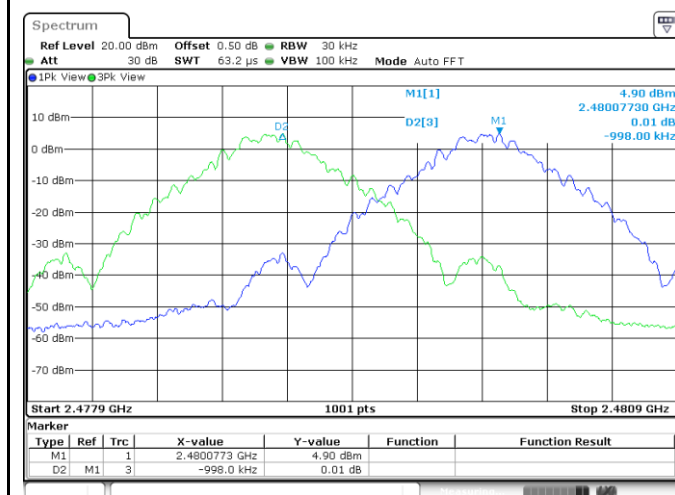
Low Channel



Middle Channel

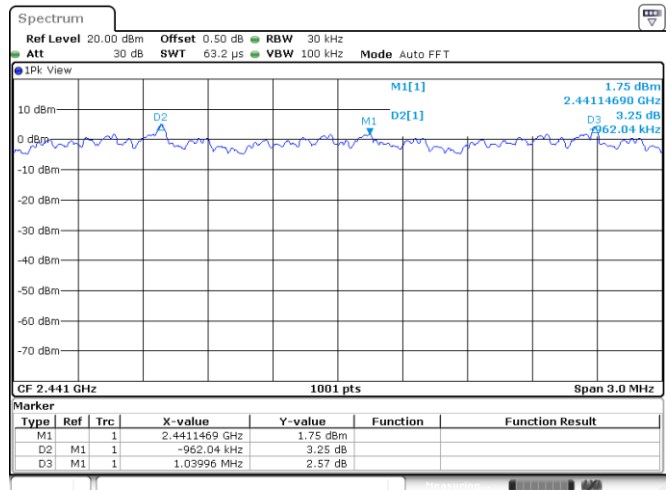
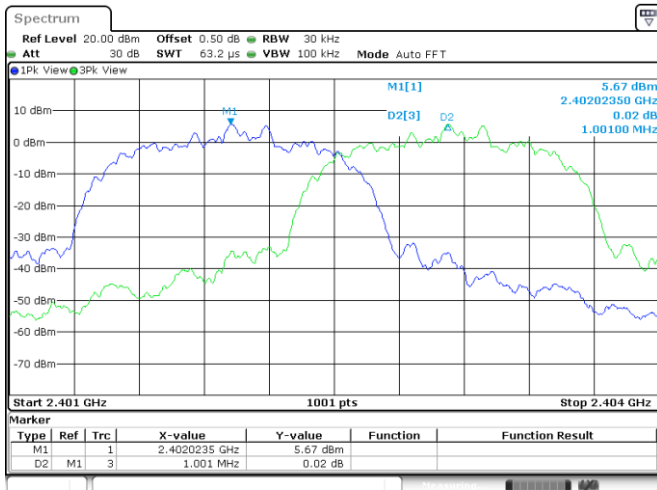
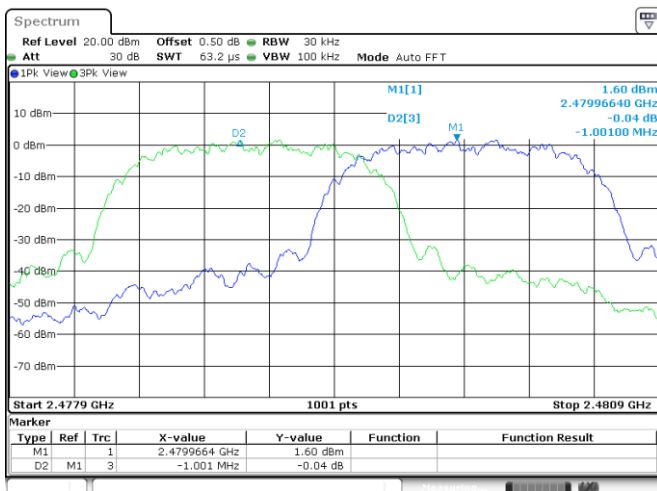


High Channel



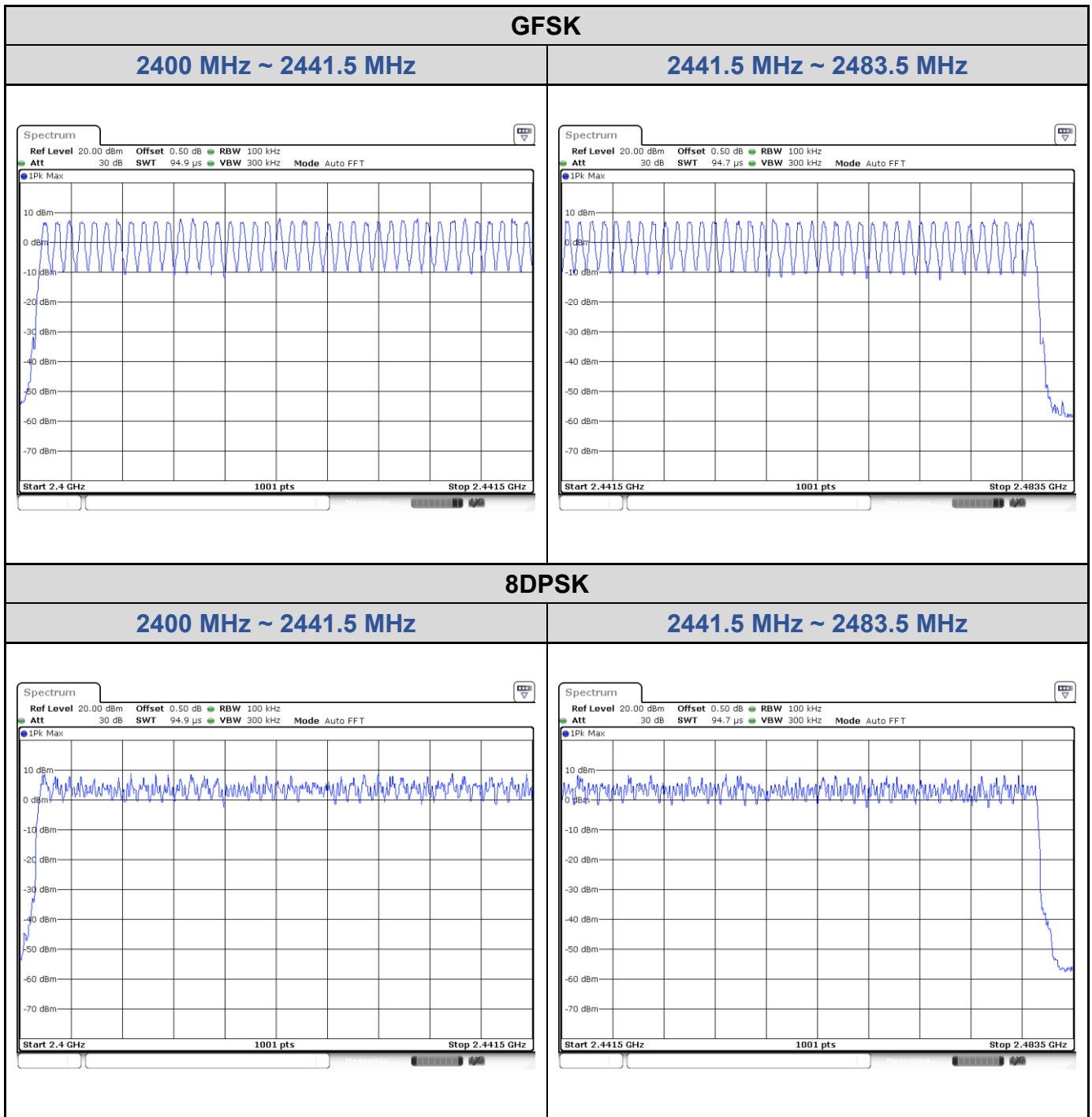
8DPSK

Channel	Channel Frequency (MHz)	Adjacent Channel Separation (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (MHz)	Result
0	2402	1.00	1342.66	0.895	Pass
39	2441	0.96	1345.65	0.897	Pass
78	2480	1.00	1342.66	0.895	Pass

Low Channel
Middle Channel

High Channel


Test Result of Number of Hopping Frequency

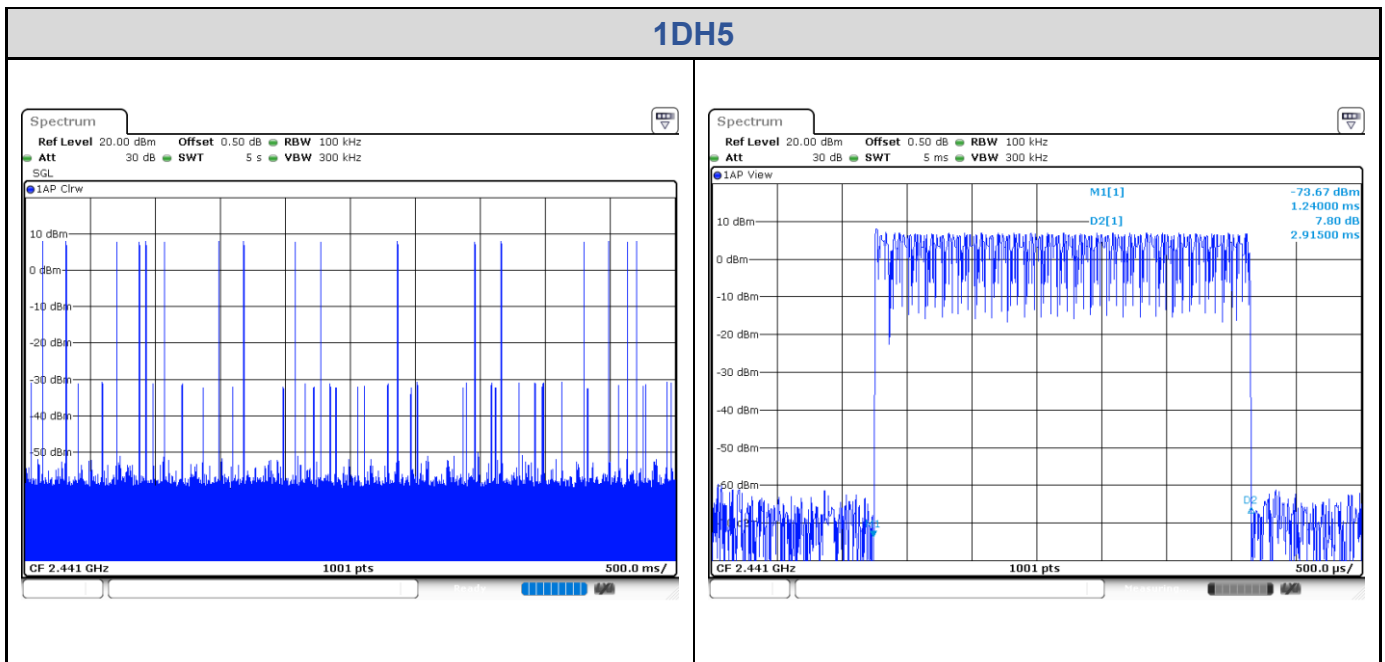
Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
<u>2400</u> to <u>2483.5</u> MHz	79	≥15	Pass



Test Result of Dwell Time

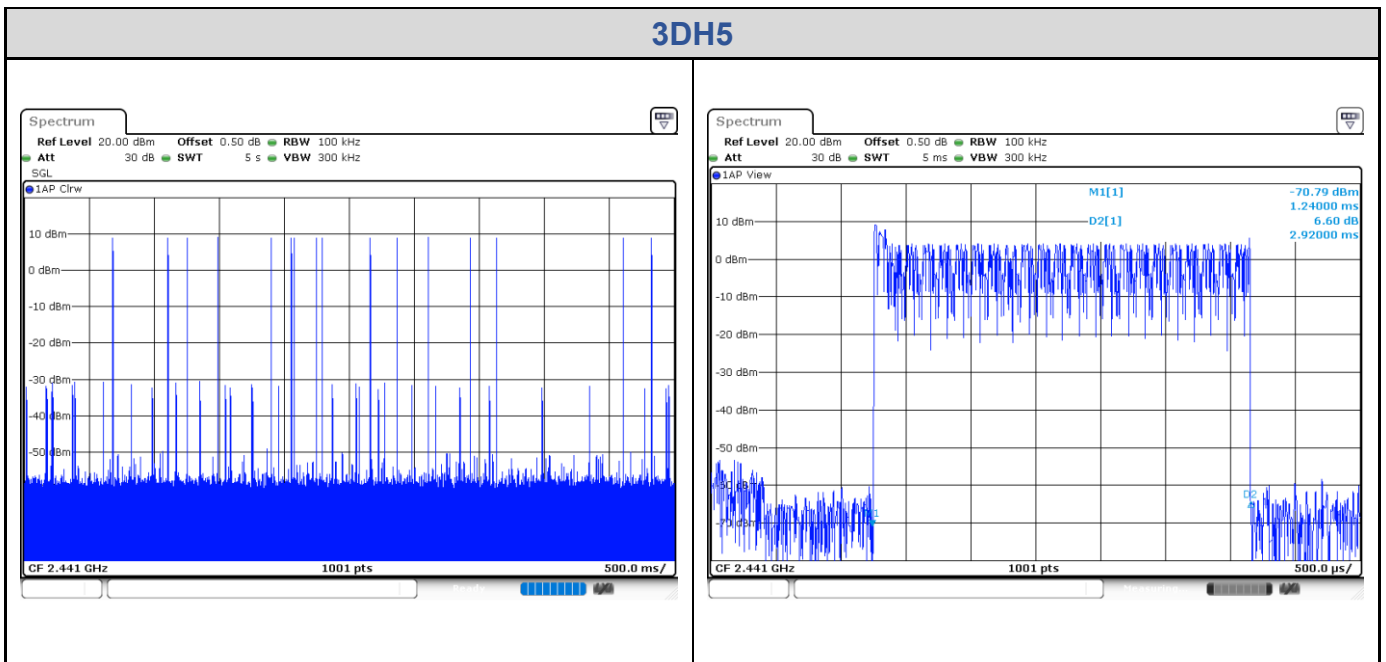
GFSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
1DH5	17 (times / 5 sec) * 6.32 = 107.44 times	2.915	0.3131876	0.4	Pass



8DPSK

Data Mode	Number of transfer in a 31.6 (79Hopping*0.4s)	Package transfer time (msec)	Dwell time (s)	Limit (s)	Result
3DH5	15 (times / 5 sec) * 6.32 = 101.12 times	2.92	0.2952704	0.4	Pass



Appendix B: Test Results of Radiated Spurious Emissions & Mains

Conducted Emission Test

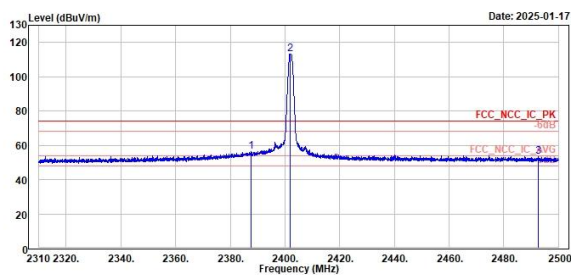
Band Edges, 2.31GHz ~ 2.5GHz

GFSK

Low Channel (Horizontal) Peak



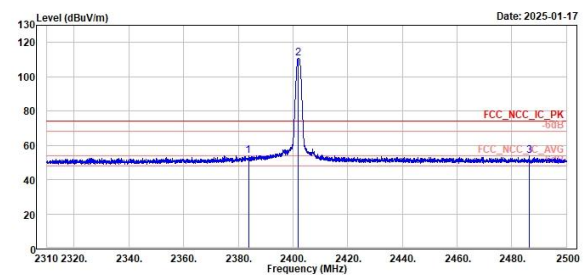
TÜV Rheinland Taiwan Ltd.
No. 438-18, Sec. 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
Tel: +886-2172-1000 Fax: +886-2172-1322



Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2387.63	56.11	50.51	5.60	74.00	-17.89	308	245	Peak	Horizontal	
2 *	2402.00	113.38	107.72	5.66	74.00	39.38	308	245	Peak	Horizontal	
3	2492.48	53.37	47.63	5.74	74.00	-20.63	308	245	Peak	Horizontal	



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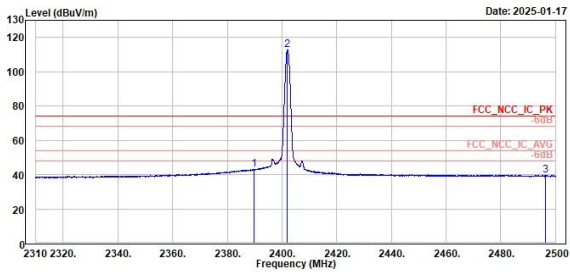
Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2383.72	54.12	48.41	5.71	74.00	-19.88	314	256	Peak	Vertical	
2 *	2402.00	110.87	105.11	5.76	74.00	36.87	314	256	Peak	Vertical	
3	2486.40	53.76	47.74	6.02	74.00	-20.24	314	256	Peak	Vertical	

GFSK

Low Channel (Horizontal) Average



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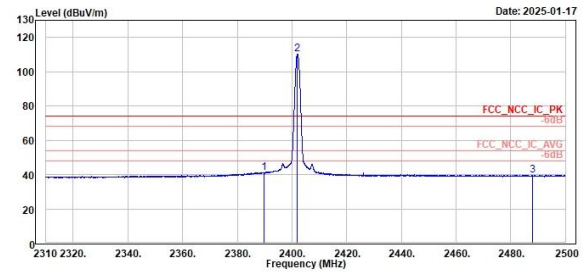


	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Factor	Line	Limit	cm	deg			
1	2389.00	43.07	37.46	5.61	54.00	-10.93	300	245 Average	Horizontal	
2 *	2402.00	112.86	107.20	5.66	54.00	58.06	300	245 Average	Horizontal	
3	2496.28	39.48	33.75	5.73	54.00	-14.52	300	245 Average	Horizontal	

Low Channel (Vertical) Average



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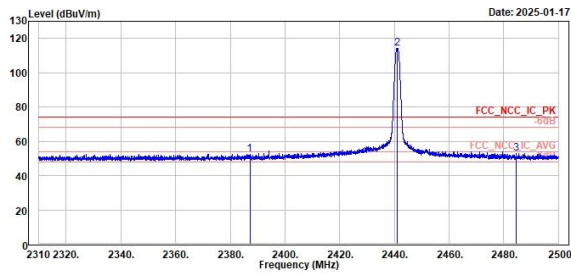
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	Factor	Line	Limit	cm	deg			
1	2389.69	41.21	35.48	5.73	54.00	-12.79	314	256 Average	Vertical	
2 *	2402.00	110.39	104.63	5.70	54.00	56.39	314	256 Average	Vertical	
3	2487.95	39.52	33.50	6.02	54.00	-14.48	314	256 Average	Vertical	

GFSK

Middle Channel (Horizontal) Peak



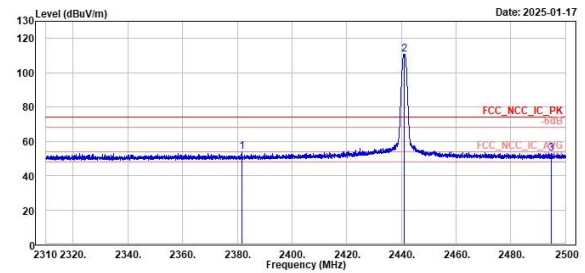
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2387.14	52.43	46.84	5.59	74.00	-21.57		332	243 Peak	Horizontal		
2 *	2441.00	114.00	108.13	5.85	74.00	40.00		332	243 Peak	Horizontal		
3	2484.65	53.13	47.36	5.77	74.00	-20.87		332	243 Peak	Horizontal		



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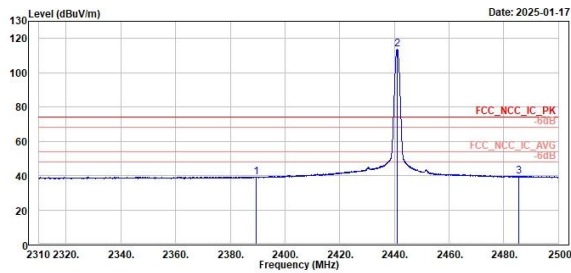
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2381.78	53.73	48.03	5.70	74.00	-20.27		302	252 Peak	Vertical		
2 *	2441.00	110.54	104.59	5.95	74.00	36.54		302	252 Peak	Vertical		
3	2494.79	53.06	47.04	6.02	74.00	-20.94		302	252 Peak	Vertical		

GFSK

Middle Channel (Horizontal) Average



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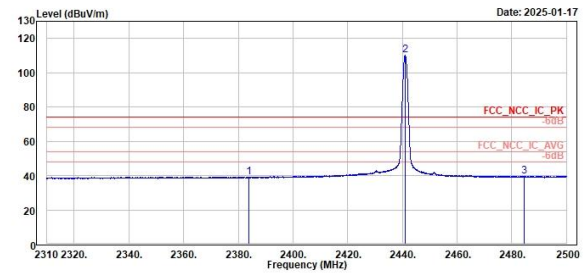


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.46	39.23	33.62	5.61	54.00	-14.77	332	243	Average	Horizontal		
2 *	2441.00	113.52	107.67	5.85	54.00	59.52	332	243	Average	Horizontal		
3	2485.41	39.56	33.78	5.78	54.00	-14.44	332	243	Average	Horizontal		

Middle Channel (Vertical) Average



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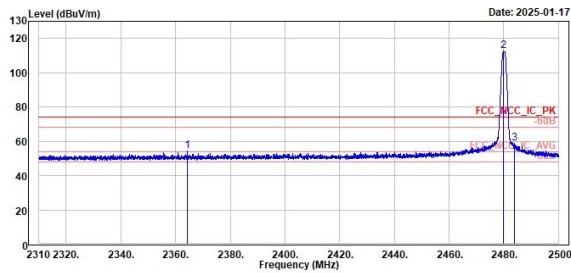
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.83	39.23	33.52	5.71	54.00	-14.77	302	252	Average	Vertical		
2 *	2441.00	110.07	104.12	5.95	54.00	56.07	302	252	Average	Vertical		
3	2484.65	39.61	33.60	6.01	54.00	-14.39	302	252	Average	Vertical		

GFSK

High Channel (Horizontal) Peak



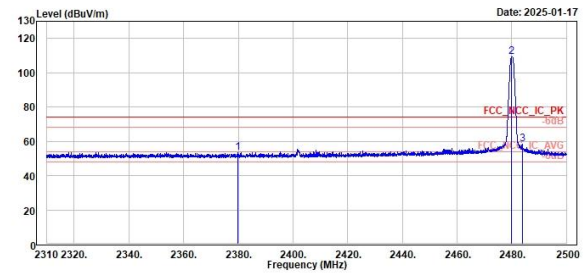
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2364.38	54.14	48.66	5.48	74.00	-19.86	315	244 Peak	Horizontal	
2 *	2480.00	112.46	106.67	5.79	74.00	38.46	315	244 Peak	Horizontal	
3	2483.81	59.05	53.28	5.77	74.00	-14.95	315	244 Peak	Horizontal	



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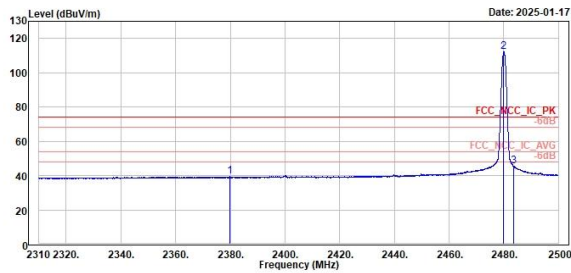
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2379.77	53.61	47.91	5.70	74.00	-20.39	291	256 Peak	Vertical	
2 *	2480.00	109.13	103.12	6.01	74.00	35.13	291	256 Peak	Vertical	
3	2483.77	58.26	52.25	6.01	74.00	-15.74	291	256 Peak	Vertical	

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High Channel (Horizontal) Average



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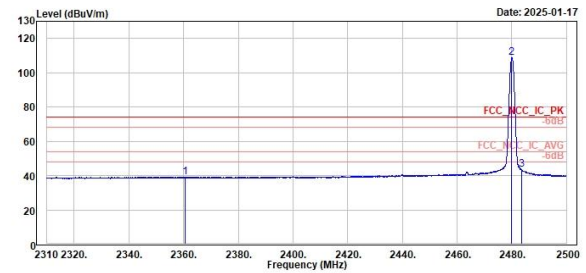


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2379.92	39.30	33.74	5.56	54.00	-14.70	315	244	Average	Horizontal		
2 *	2480.00	112.00	106.21	5.79	54.00	58.00	315	244	Average	Horizontal		
3	2483.58	45.61	39.83	5.78	54.00	-8.39	315	244	Average	Horizontal		

High Channel (Vertical) Average



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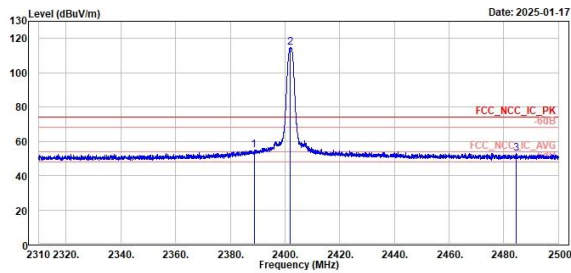
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2360.54	39.19	33.54	5.65	54.00	-14.81	291	256	Average	Vertical		
2 *	2480.00	108.62	102.61	6.01	54.00	54.62	291	256	Average	Vertical		
3	2483.51	43.45	37.44	6.01	54.00	-10.55	291	256	Average	Vertical		

8DPSK

Low Channel (Horizontal) Peak



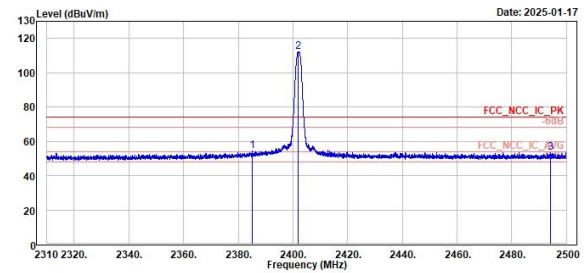
TÜV Rheinland Taiwan Ltd.
No. 458-18, Sec 2, Fenliiao, Linkou Dist., New Taipei City 244, Taiwan(R.O.C.)
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2388.70	55.05	49.45	5.60	74.00	-18.95	342	256 Peak		Horizontal		
2 *	2402.00	114.72	109.06	5.66	74.00	40.72	342	256 Peak		Horizontal		
3	2494.65	52.89	47.12	5.77	74.00	-21.11	342	256 Peak		Horizontal		



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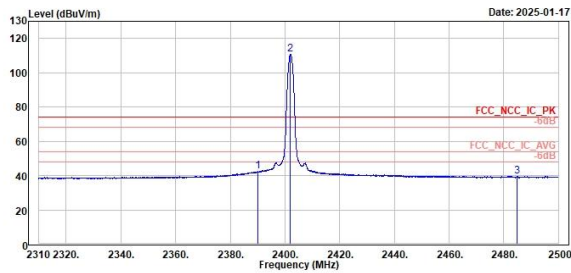
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2385.16	54.51	48.80	5.71	74.00	-19.49	314	257 Peak		Vertical		
2 *	2402.00	112.41	106.65	5.76	74.00	38.41	314	257 Peak		Vertical		
3	2494.19	53.16	47.14	6.02	74.00	-20.84	314	257 Peak		Vertical		

8DPSK

Low Channel (Horizontal) Average



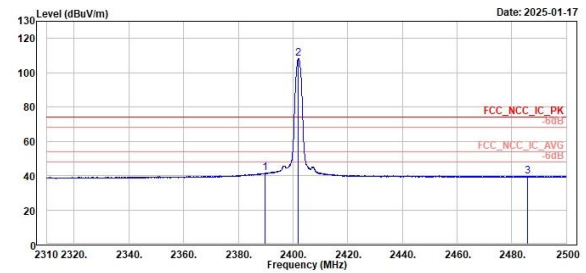
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.99	42.29	36.68	5.61	54.00	-11.71	342	256	Average	Horizontal		
2 *	2402.00	110.55	104.89	5.66	54.00	56.55	342	256	Average	Horizontal		
3	2484.84	39.39	33.62	5.77	54.00	-14.61	342	256	Average	Horizontal		



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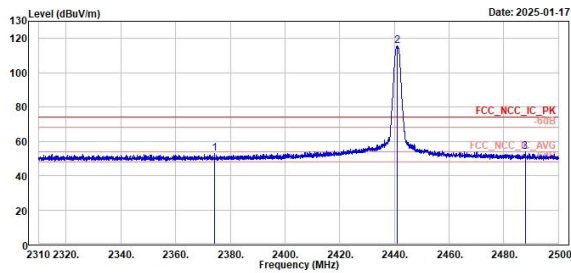
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2389.84	41.31	35.58	5.73	54.00	-12.69	314	257	Average	Vertical		
2 *	2402.00	100.19	102.43	5.76	54.00	54.19	314	257	Average	Vertical		
3	2485.90	39.60	33.58	6.02	54.00	-14.40	314	257	Average	Vertical		

8DPSK

Middle Channel (Horizontal) Peak



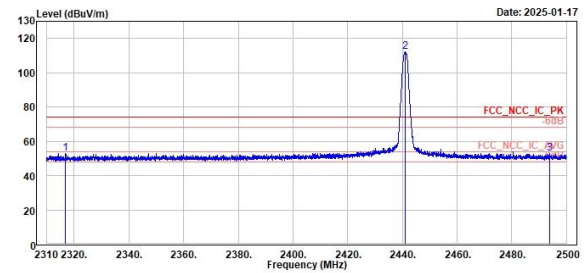
TÜV Rheinland Taiwan Ltd.
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2374.38	52.68	47.14	5.54	74.00	-21.32	333	242	Peak	Horizontal		
2 *	2441.00	115.42	109.57	5.85	74.00	41.42	333	242	Peak	Horizontal		
3	2487.88	53.73	47.96	5.77	74.00	-26.27	333	242	Peak	Horizontal		



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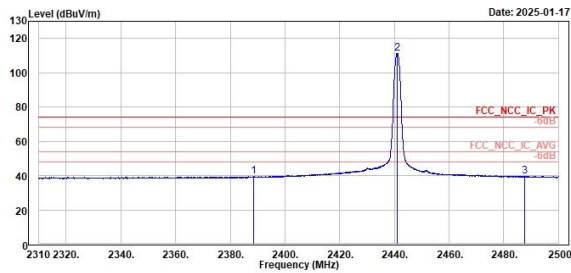
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2316.92	52.94	47.48	5.46	74.00	-21.06	303	253	Peak	Vertical		
2 *	2441.00	112.06	106.11	5.95	74.00	38.06	303	253	Peak	Vertical		
3	2493.88	52.75	46.73	6.02	74.00	-27.25	303	253	Peak	Vertical		

8DPSK

Middle Channel (Horizontal) Average



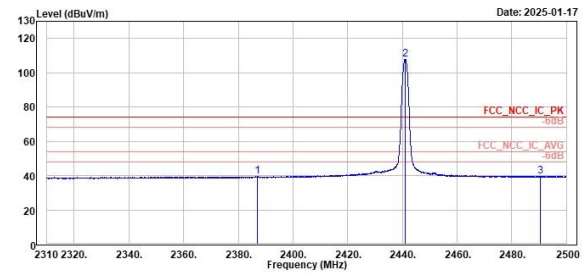
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2388.66	39.54	33.94	5.60	54.00	-14.46	333	242 Average	Horizontal	
2 *	2441.00	111.36	105.51	5.85	54.00	57.36	333	242 Average	Horizontal	
3	2487.57	39.72	33.95	5.77	54.00	-14.28	333	242 Average	Horizontal	



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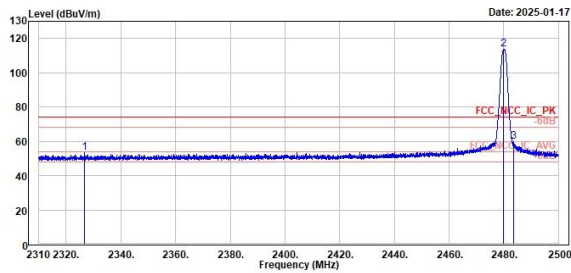
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1	2387.10	39.37	33.66	5.71	54.00	-14.63	303	253 Average	Vertical	
2 *	2441.00	107.97	102.02	5.95	54.00	53.97	303	253 Average	Vertical	
3	2490.50	39.79	33.77	6.02	54.00	-14.21	303	253 Average	Vertical	

8DPSK

High Channel (Horizontal) Peak



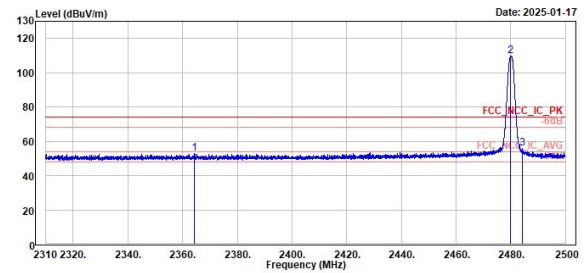
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2326.68	53.15	47.00	5.35	74.00	-20.85		316	246	Peak	Horizontal	
2 *	2480.00	113.82	103.56	5.79	74.00	39.82		316	246	Peak	Horizontal	
3	2483.51	59.96	54.18	5.78	74.00	-14.04		316	246	Peak	Horizontal	



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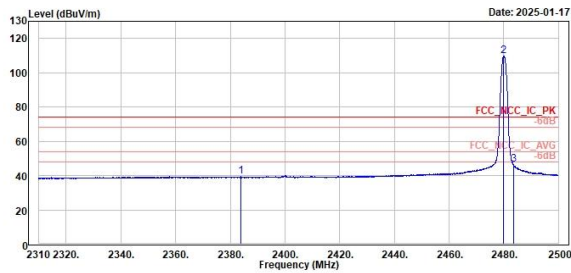
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2364.42	52.74	47.00	5.65	74.00	-21.26		329	255	Peak	Vertical	
2 *	2480.00	109.57	103.56	6.01	74.00	35.57		329	255	Peak	Vertical	
3	2484.15	55.93	49.92	6.01	74.00	-18.07		329	255	Peak	Vertical	

8DPSK

High Channel (Horizontal) Average



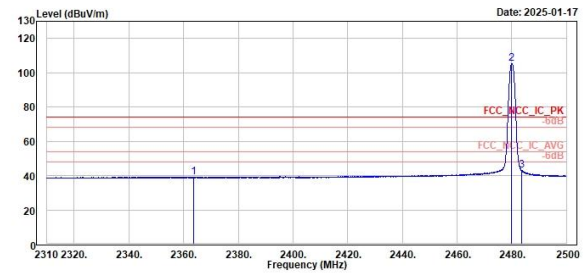
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.99	39.33	33.75	5.58	54.00	-14.67		316	246	Average	Horizontal	
2 *	2480.00	109.70	103.91	5.79	54.00	55.70		316	246	Average	Horizontal	
3	2483.51	46.24	40.46	5.78	54.00	-7.76		316	246	Average	Horizontal	



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2383.99	39.33	33.75	5.58	54.00	-14.67		316	246	Average	Horizontal	
2 *	2480.00	109.70	103.91	5.79	54.00	55.70		316	246	Average	Horizontal	
3	2483.51	46.24	40.46	5.78	54.00	-7.76		316	246	Average	Horizontal	

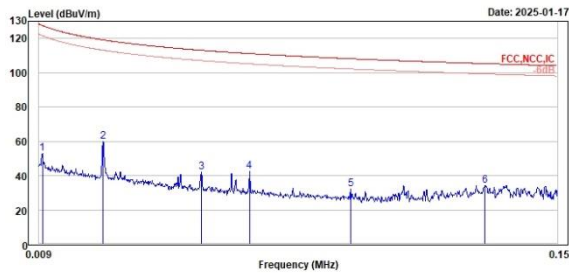
Spurious Emissions, Tx Mode, 9kHz ~ 30MHz

8DPSK

Middle Channel (Open) 9kHz~150kHz



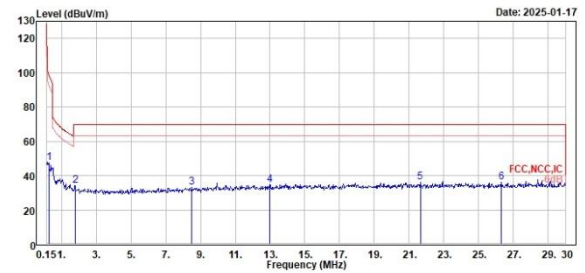
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.01	52.72	34.61	18.11	127.60	-74.88	100	225	Peak	Open		
2	0.03	59.62	39.94	19.68	119.13	-59.51	100	51	Peak	Open		
3	0.05	41.93	22.99	18.94	113.06	-71.13	100	301	Peak	Open		
4	0.07	42.63	23.93	18.70	111.17	-68.54	100	195	Peak	Open		
5	0.09	32.08	13.93	18.15	108.16	-76.08	100	225	Peak	Open		
6	0.13	34.26	16.15	18.11	105.30	-71.04	100	244	Peak	Open		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	0.27	47.46	29.04	18.42	98.99	-51.53	100	212	Peak	Open		
2	1.79	34.11	15.37	18.74	69.50	-35.39	100	172	Peak	Open		
3	8.51	33.32	12.80	20.52	69.50	-36.18	100	360	Peak	Open		
4	12.99	34.52	13.10	21.42	69.50	-34.98	100	95	Peak	Open		
5	21.64	35.98	13.53	22.45	69.50	-33.52	100	23	Peak	Open		
6	26.30	36.02	13.43	22.59	69.50	-33.48	100	181	Peak	Open		

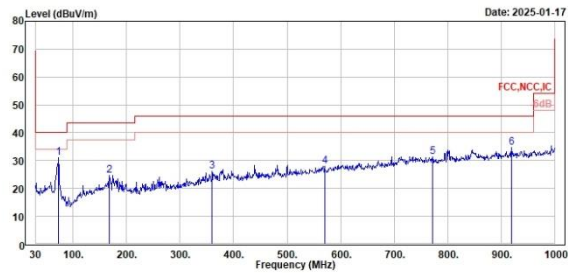
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

8DPSK

Middle Channel (Horizontal)



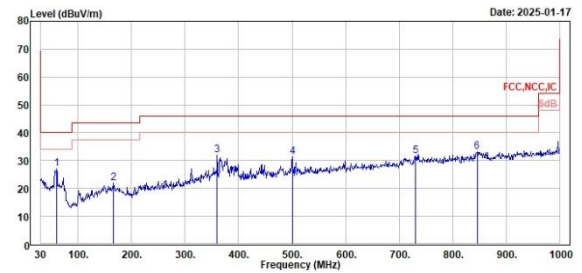
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	72.68	31.08	41.45	-10.37	40.00	-8.92	200	290	Peak	Horizontal		
2	167.74	24.66	31.40	-6.74	43.50	-18.84	200	173	Peak	Horizontal		
3	359.80	26.08	30.95	-4.87	46.00	-19.92	100	83	Peak	Horizontal		
4	570.29	28.10	28.76	-0.66	46.00	-17.90	195	360	Peak	Horizontal		
5	772.05	31.30	28.15	3.15	46.00	-14.70	100	290	Peak	Horizontal		
6	919.49	34.82	29.64	5.18	46.00	-11.18	100	260	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	68.07	27.17	34.57	-7.40	40.00	-12.83	200	35	Peak	Vertical		
2	166.77	21.92	28.65	-6.73	43.50	-21.58	200	83	Peak	Vertical		
3	359.80	32.00	36.87	-4.87	46.00	-14.00	100	194	Peak	Vertical		
4	500.45	31.45	33.71	-2.26	46.00	-14.55	100	196	Peak	Vertical		
5	731.31	31.54	29.32	2.22	46.00	-14.46	200	211	Peak	Vertical		
6	845.77	33.20	28.97	4.23	46.00	-12.80	200	360	Peak	Vertical		

Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

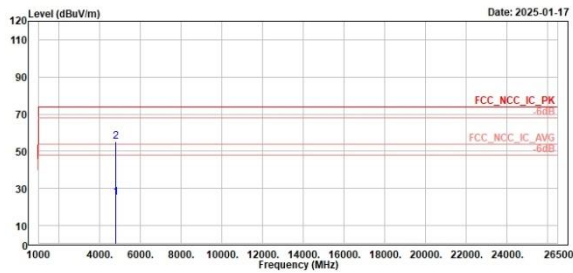
GFSK

Low Channel (Horizontal)

Low Channel (Vertical)



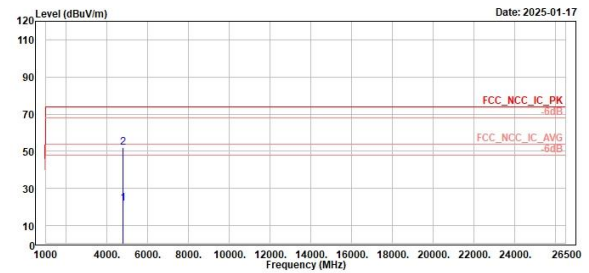
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4894.00	24.93	15.14	9.79	54.00	-29.07	100	100	Average	Horizontal	CF	
2	4894.00	55.03	45.24	9.79	74.00	-18.97	100	100	Peak	Horizontal		



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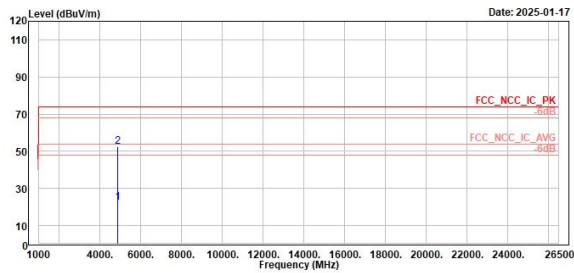
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4894.00	22.06	12.44	9.62	54.00	-31.94	400	222	Average	Vertical	CF	
2	4894.00	52.16	42.54	9.62	74.00	-21.84	400	222	Peak	Vertical		

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Middle Channel (Horizontal)



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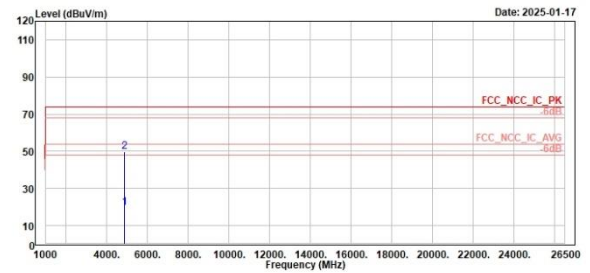


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	22.49	12.73	9.76	54.00	-31.51	100	251	Average	Horizontal	CF	
2	4882.00	52.59	42.63	9.76	74.00	-21.41	100	251	Peak	Horizontal		

Middle Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	19.68	9.86	9.74	54.00	-34.48	300	154	Average	Vertical	CF	
2	4882.00	49.78	39.96	9.74	74.00	-24.38	300	154	Peak	Vertical		

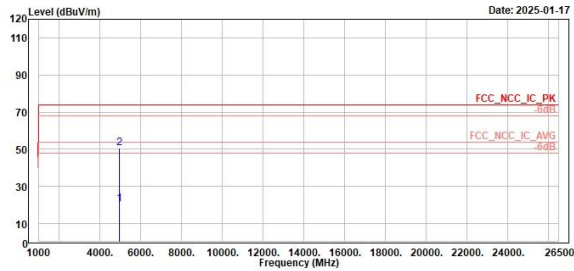
GFSK

High Channel (Horizontal)

High Channel (Vertical)



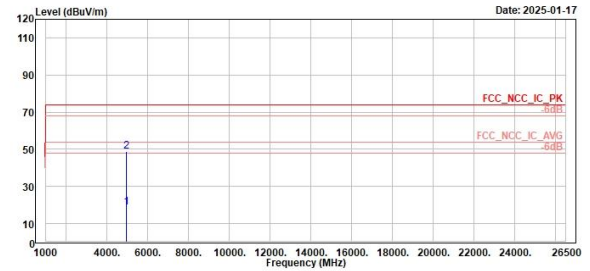
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	20.56	10.53	10.03	54.00	-33.44	100	214	Average	Horizontal	CF	
2	4960.00	50.66	40.63	10.03	74.00	-23.34	100	214	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	4960.00	18.67	8.64	10.03	54.00	-35.33	300	78	Average	Vertical	CF	
2	4960.00	48.77	38.74	10.03	74.00	-25.23	300	78	Peak	Vertical		

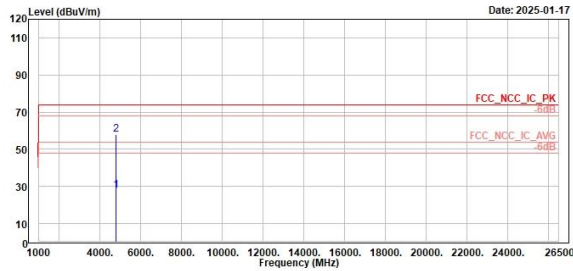
8DPSK

Low Channel (Horizontal)

Low Channel (Vertical)



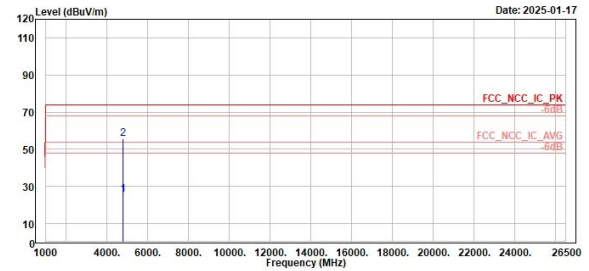
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	27.86	18.07	9.79	54.00	-26.14	100	215	Average	Horizontal	CF	
2	4804.00	57.96	48.17	9.79	74.00	-16.04	100	215	Peak	Horizontal		



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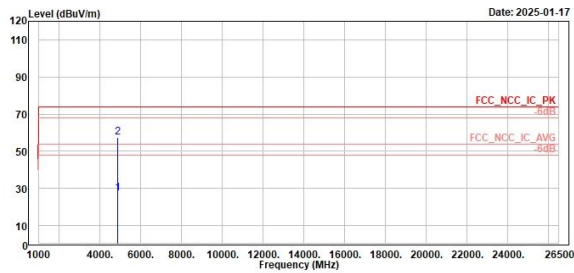
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4804.00	25.40	15.78	9.62	54.00	-28.60	300	44	Average	Vertical	CF	
2	4804.00	55.50	45.88	9.62	74.00	-18.50	300	44	Peak	Vertical		

8DPSK

Middle Channel (Horizontal)



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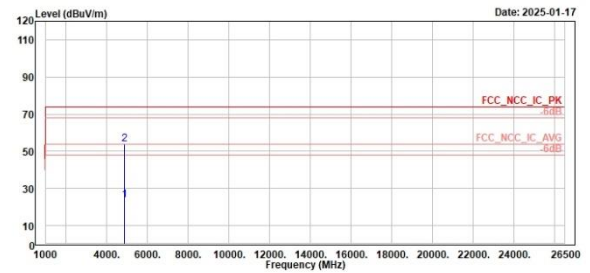


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	27.30	17.44	9.76	54.00	-26.00	100	88	Average	Horizontal	CF	
2	4882.00	57.30	47.54	9.76	74.00	-16.70	100	88	Peak	Horizontal		

Middle Channel (Vertical)



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4882.00	23.90	14.16	9.74	54.00	-30.10	100	210	Average	Vertical	CF	
2	4882.00	54.00	44.26	9.74	74.00	-20.00	100	210	Peak	Vertical		

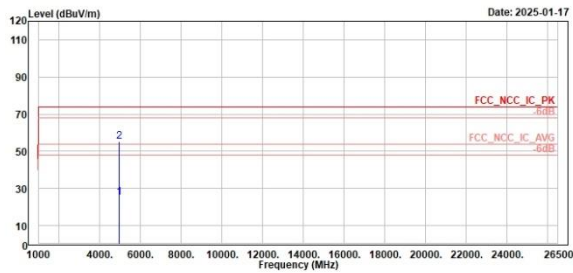
8DPSK

High Channel (Horizontal)

High Channel (Vertical)



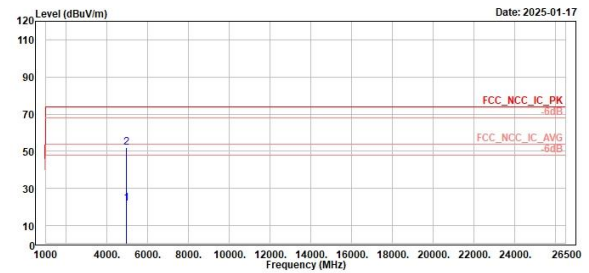
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	24.95	14.92	10.03	54.00	-29.05	100	99	Average	Horizontal	CF	
2	4960.00	55.05	45.02	10.03	74.00	-18.95	100	99	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4960.00	22.01	11.98	10.03	54.00	-31.99	200	154	Average	Vertical	CF	
2	4960.00	52.11	42.08	10.03	74.00	-21.89	200	154	Peak	Vertical		

Mains Conducted Emission, TX 150kHz ~ 30MHz

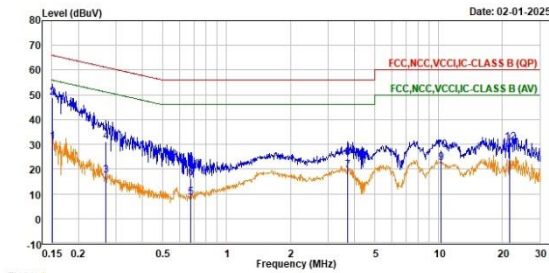
Worst Band

(Line)

(Neutral)



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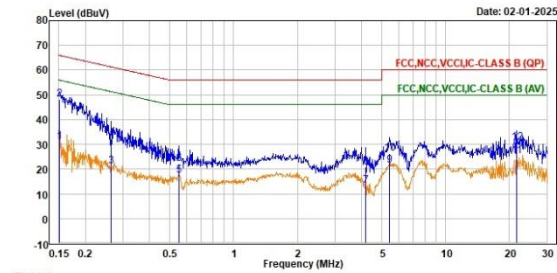


Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.15	31.19	21.56	9.63	55.96	-24.77 Average	line1
2	0.15	48.69	39.06	9.63	65.96	-17.27 QP	line1
3	0.27	17.25	7.62	9.63	51.11	-33.86 Average	line1
4	0.27	31.18	21.55	9.63	61.11	-29.93 QP	line1
5	0.68	8.64	-0.99	9.63	46.00	-37.36 Average	line1
6	0.68	16.39	6.76	9.63	56.00	-39.61 QP	line1
7	3.74	19.30	9.62	9.68	46.00	-26.70 Average	line1
8	3.74	24.44	14.76	9.68	56.00	-31.56 QP	line1
9	10.22	22.59	12.04	9.75	50.00	-27.41 Average	line1
10	10.22	27.77	18.02	9.75	60.00	-32.23 QP	line1
11	21.59	25.45	15.72	9.73	50.00	-24.55 Average	line1
12	21.59	30.76	21.03	9.73	60.00	-29.24 QP	line1



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Trace: 1

	Freq	Level	Read	Limit	Over		
	MHz	dBuV	Level Factor	Line	Limit	Remark	Pol/Phase Note
	MHz	dBuV	dB	dBuV	dB		
1	0.15	31.17	21.53	9.64	55.96	-24.79 Average	neutral
2	0.15	48.28	38.64	9.64	65.96	-17.68 QP	neutral
3	0.26	21.31	11.68	9.63	51.28	-29.97 Average	neutral
4	0.26	32.00	22.37	9.63	61.28	-29.28 QP	neutral
5	0.55	17.38	7.75	9.63	46.00	-28.62 Average	neutral
6	0.55	22.13	12.50	9.63	56.00	-33.87 QP	neutral
7	4.21	13.39	3.70	9.69	46.00	-32.61 Average	neutral
8	4.21	20.94	11.25	9.69	56.00	-35.06 QP	neutral
9	5.43	21.35	11.63	9.72	50.00	-28.65 Average	neutral
10	5.43	26.43	16.71	9.72	60.00	-33.57 QP	neutral
11	21.59	25.15	15.30	9.85	50.00	-24.85 Average	neutral
12	21.59	30.58	20.73	9.85	60.00	-29.42 QP	neutral