

CFR 47 FCC PART 15 SUBPART C(DTS)

TEST REPORT

For

**Flydigi APEX 5 Elite Gaming Controller, Flydigi APEX 5 Elite Gaming Controller
Giftpack EVA.ver**

MODEL NUMBER: APEX 5

REPORT NUMBER: E04A25030304F00303

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FCC ID: 2AORE-K5

Prepared for

Shanghai Flydigi Electronics Technology Co.,Ltd.

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Prepared by

Guangdong Global Testing Technology Co., Ltd.

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Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above
mentioned product, it does not imply an assessment of the production of the products.**

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Guangdong Global Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	April 27, 2025	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2)	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.205/15.209	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C(DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shanghai Flydigi Electronics Technology Co., Ltd.
Address: Rm 1108, No.258 Guoxia Rd, Yangpu District, Shanghai, China.

Manufacturer Information

Company Name: Shanghai Flydigi Electronics Technology Co., Ltd.
Address: Rm 1108, No.258 Guoxia Rd, Yangpu District, Shanghai, China.

Factory Information

Company Name: SHENZHEN KING CHUANG TECH & ELECTRONIC CO.,LTD
Address: 58 Guangtian Road, Luotian Neighbour, Yanluo Street, Baoan District, Shenzhen, China (Postal Code 518127)

EUT Information

Product Description: Flydigi APEX 5 Elite Gaming Controller, Flydigi APEX 5 Elite Gaming Controller Giftpack EVA.ver
Model: APEX 5
Series Model: N/A
Brand: Flydigi
Sample Received Date: March 17, 2025
Sample Status: Normal
Sample ID: A25030304 001
Date of Tested: March 17, 2025 to March 28, 2025

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C(DTS)	Pass

Prepared By:

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Win Huang

Project Engineer

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C(DTS)

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
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Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Items	k	Uncertainty
DTS Bandwidth	1.96	±9.2 PPM
20dB Emission Bandwidth	1.96	±9.2 PPM
Carrier Frequency Separation	1.96	±9.2 PPM
Time of Occupancy	1.96	±0.57%
Conducted Output Power	1.96	±1.5 dB
Power Spectral Density Level	1.96	±1.9 dB
Conducted Spurious Emission	1.96	9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.		

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports (AMN)	150 kHz ~ 30 MHz	2	3.37
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name		Flydigi APEX 5 Elite Gaming Controller, Flydigi APEX 5 Elite Gaming Controller Giftpack EVA.ver
Model		APEX 5
Series Model		N/A
EUT Classification		Class B
Internal Frequency		above 108MHz
Hardware Version		/
Software Version		/
Ratings		DC 5V,1A
Power Supply	DC	DC 5V,1A

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK/QPSK/8PSK
Number of Channels:	GFSK/QPSK/8PSK (1 MHz): 79 GFSK/QPSK/8PSK (2 MHz): 37 GFSK/QPSK/8PSK (4 MHz): 18
Channel Separation:	1MHz/ 2MHz/ 4MHz
Maximum Peak Power:	4.97dBm
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Normal Test Voltage:	5 Vdc
EUT Test software:	XCOM V2.2.exe

5.1. CHANNEL LIST

Channel List for GFSK/QPSK/8PSK (1 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	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	79	/

Channel List for GFSK/QPSK/8PSK (2 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2404	20	2446	40	/	60	/
01	2406	21	2448	41	/	61	/
02	2408	22	2450	42	/	62	/
03	2410	23	2452	43	/	63	/
04	2412	24	2454	44	/	64	/
05	2414	25	2456	45	/	65	/
06	2416	26	2458	46	/	66	/
07	2418	27	2460	47	/	67	/
08	2420	28	2462	48	/	68	/
09	2422	29	2464	49	/	69	/
10	2426	30	2466	50	/	70	/
11	2428	31	2468	51	/	71	/
12	2430	32	2470	52	/	72	/
13	2432	33	2472	53	/	73	/
14	2434	34	2474	54	/	74	/
15	2436	35	2476	55	/	75	/
16	2438	36	2478	56	/	76	/
17	2440	37	/	57	/	77	/
18	2442	38	/	58	/	78	/
19	2444	39	/	59	/	79	/

Channel List for GFSK/QPSK/8PSK (4 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2405	20	/	40	/	60	/
01	2409	21	/	41	/	61	/
02	2413	22	/	42	/	62	/
03	2417	23	/	43	/	63	/
04	2421	24	/	44	/	64	/
05	2429	25	/	45	/	65	/
06	2433	26	/	46	/	66	/
07	2437	27	/	47	/	67	/
08	2441	28	/	48	/	68	/
09	2445	29	/	49	/	69	/
10	2449	30	/	50	/	70	/
11	2453	31	/	51	/	71	/
12	2457	32	/	52	/	72	/
13	2461	33	/	53	/	73	/
14	2465	34	/	54	/	74	/
15	2469	35	/	55	/	75	/
16	2473	36	/	56	/	76	/
17	2477	37	/	57	/	77	/
18		38	/	58	/	78	/
19		39	/	59	/	79	/

5.2. MAXIMUM CONDUCTED OUTPUT POWER

Test Mode	Frequency (MHz)	Channel Number	Max EIRP (dBm)
GFSK	2402 ~ 2480	0-78[79]	4.97
QPSK	2402 ~ 2480	0-78[79]	4.93
8PSK	2402 ~ 2480	0-78[79]	4.93

5.3. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK(1M)	CH 0(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
GFSK(2M)	CH 0(Low Channel), CH 17(MID Channel), CH 36(High Channel)	2404 MHz, 2440 MHz, 2478 MHz
GFSK(4M)	CH 0(Low Channel), CH 8(MID Channel), CH 17(High Channel)	2405 MHz, 2441 MHz, 2477 MHz
QPSK(1M)	CH 0(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
QPSK(2M)	CH 0(Low Channel), CH 17(MID Channel), CH 36(High Channel)	2404 MHz, 2440 MHz, 2478 MHz
QPSK(4M)	CH 0(Low Channel), CH 8(MID Channel), CH 17(High Channel)	2405 MHz, 2441 MHz, 2477 MHz
8PSK(1M)	CH 0(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
8PSK(2M)	CH 0(Low Channel), CH 17(MID Channel), CH 36(High Channel)	2404 MHz, 2440 MHz, 2478 MHz
8PSK(4M)	CH 0(Low Channel), CH 8(MID Channel), CH 17(High Channel)	2405 MHz, 2441 MHz, 2477 MHz

5.4. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		XCOM V2.2.exe		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		CH 00, CH 02, CH 03	CH 38, CH 39	CH 75, CH 76, CH 78
GFSK	1	5	5	5
QPSK	1	5	5	5
8PSK	1	5	5	5

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	PCB antenna	0dBi

Test Mode	Transmit and Receive Mode	Description
LE 1M	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
LE 2M	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note:		

5.6. SUPPORT UNITS FOR SYSTEM TEST

The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Adapter	Xiaomi	MDY-11-EX	N/A	GTG Support
E-2	PC	Lenovo	B4650-D002	M90601U3	GTG Support

The following cables were used to form a representative test configuration during the tests.

Item	Type of cable	Shielded Type	Ferrite Core	Length
C-1	USB cable	Shielded	without ferrite	0.33 m

5.7. SETUP DIAGRAM

Radiated emissions:



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2024/09/14	2025/09/13
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2024/09/14	2025/09/13
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2024/09/14	2025/09/13
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2024/09/14	2025/09/13
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2024/09/14	2025/09/13
temperature humidity chamber	Espec	SH-241	SH-241-2014	2024/09/14	2025/09/13
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-9K0130	HYPA21001	2024/09/14	2025/09/13
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2022/10/10	2025/10/09
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2022/08/30	2025/08/29
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2024/09/14	2025/09/13
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2024/09/14	2025/09/13
Pre-Amplifier	HzEMC	HPA-1G1850	HYPA21003	2024/09/14	2025/09/13
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYPA21004	2024/09/14	2025/09/13

Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

Test Equipment of Conducted emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Shielded Room	CHENG YU	8m*5m*4m	N/A	2022/10/29	2025/10/28
EMI Test Receiver	Rohde & Schwarz	ESR3	102647	2024/09/14	2025/09/13
LISN/AMN	Rohde & Schwarz	ENV216	102843	2024/09/14	2025/09/13
NNLK 8129 RC	Schwarzbeck	NNLK 8129 RC	5046	2024/09/14	2025/09/13
Test Software	Farad	EZ-EMC (Ver. EMC-con-3A1 1+)	N/A	N/A	N/A

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

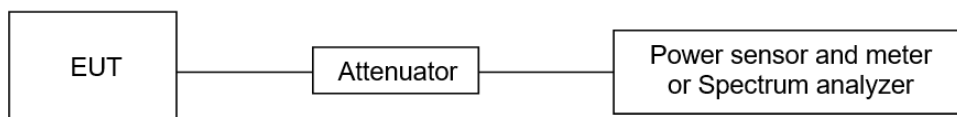
CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.6°C	Relative Humidity	58%
Atmosphere Pressure	100kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

TEST PROCEDURE

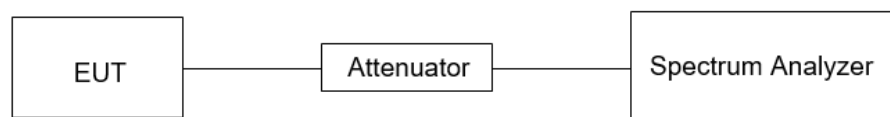
Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission
Detector	Peak
RBW	For 6 dB Bandwidth: 100 kHz
VBW	For 6 dB Bandwidth: $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

a) Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4°C	Relative Humidity	43%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.1. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

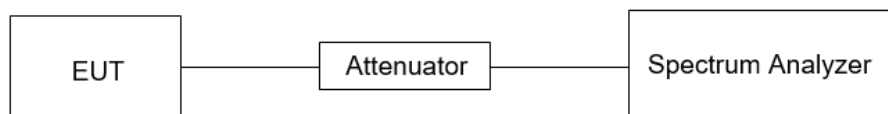
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	PEAK
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4°C	Relative Humidity	43%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.2. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

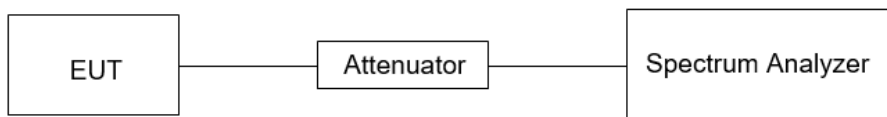
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST SETUP**TEST ENVIRONMENT**

Temperature	24.4°C	Relative Humidity	43%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.3. DUTY CYCLE

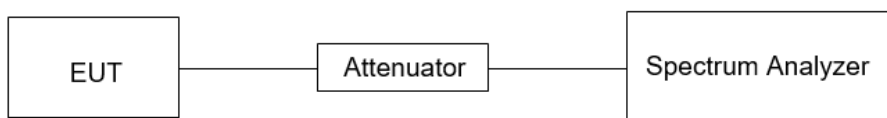
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.4°C	Relative Humidity	43%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
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

FCC Restricted bands of operation refer to FCC §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, W dB, to the limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

2. The EUT was 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

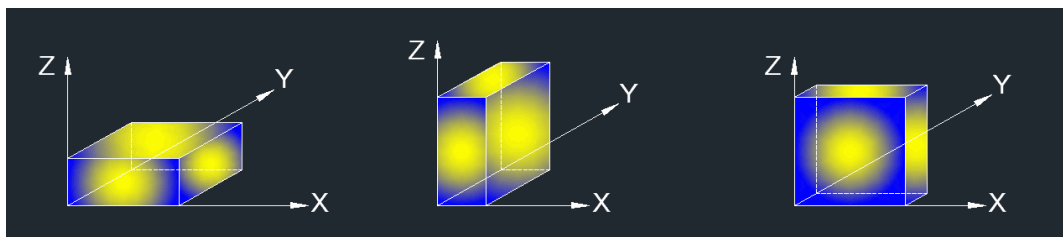
Above 1G

The setting of the spectrum analyser

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

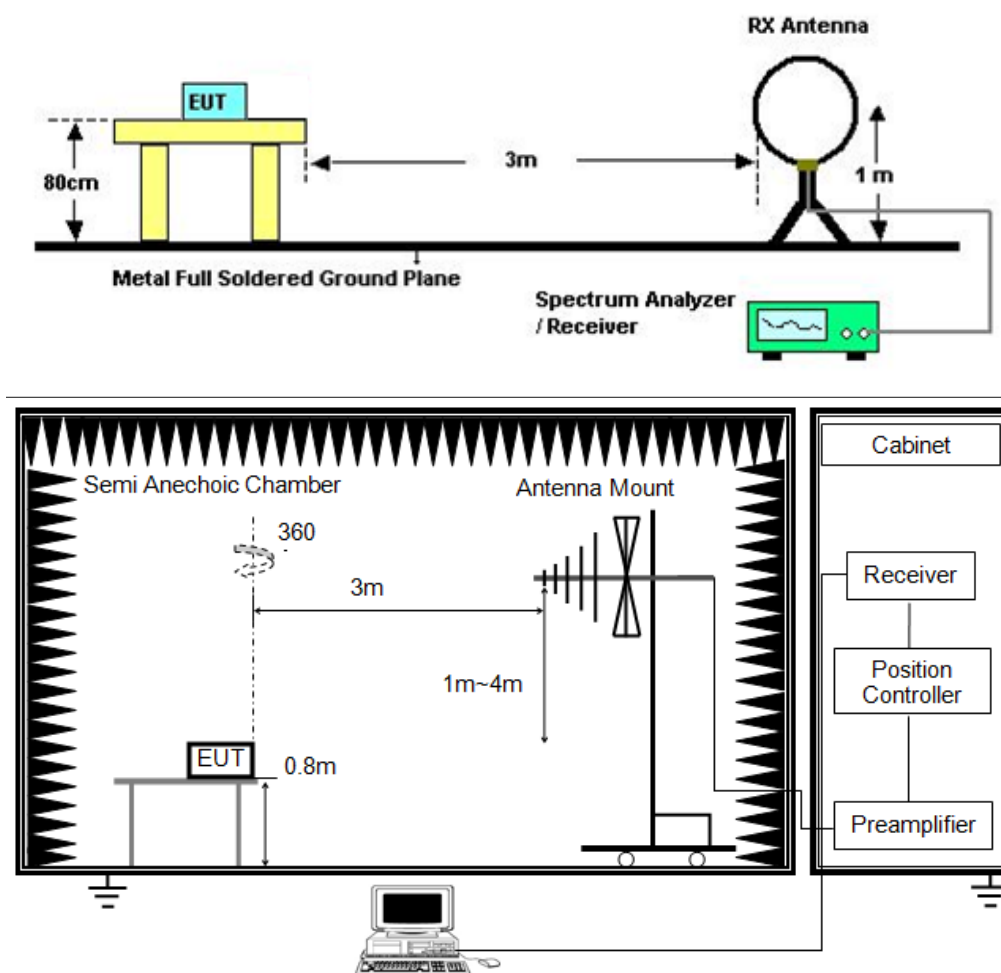
1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

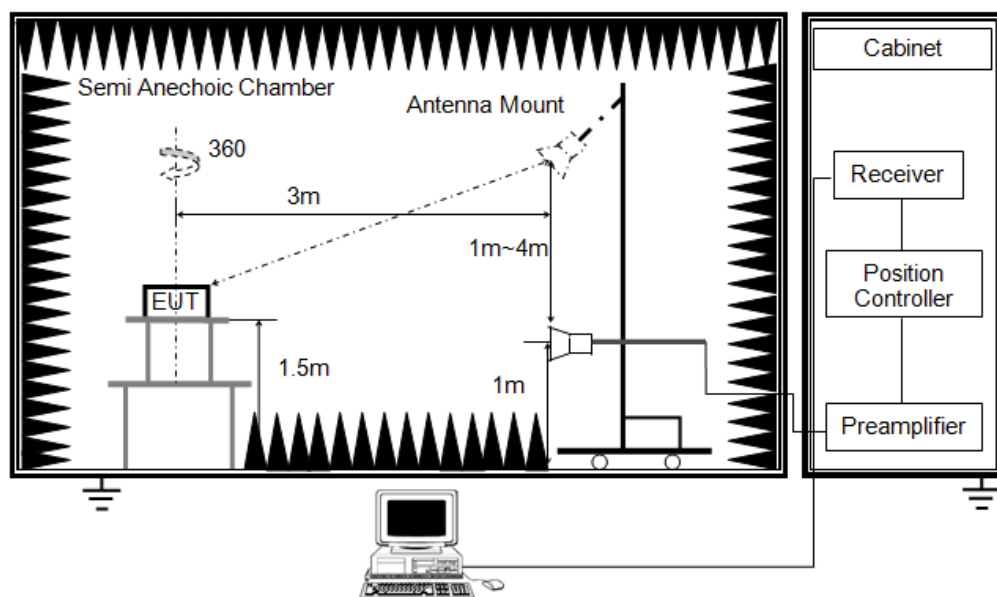
X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST SETUP



**TEST ENVIRONMENT**

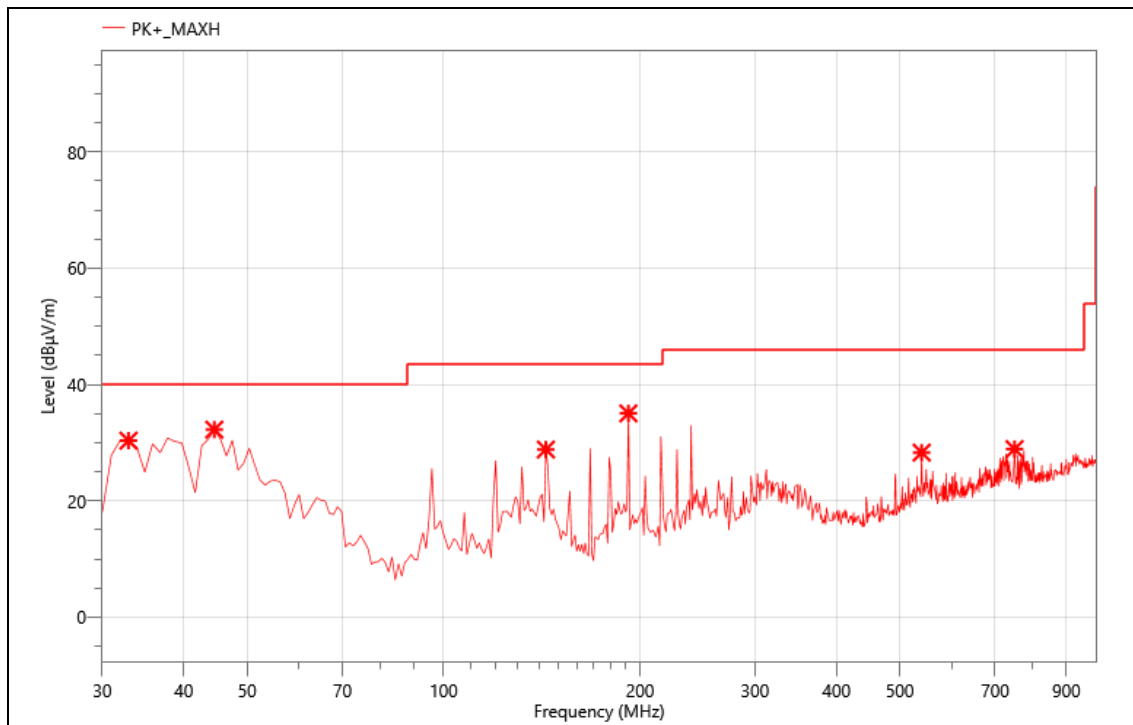
Temperature	23.2℃	Relative Humidity	51%
Atmosphere Pressure	101kPa		

TEST RESULTS

- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

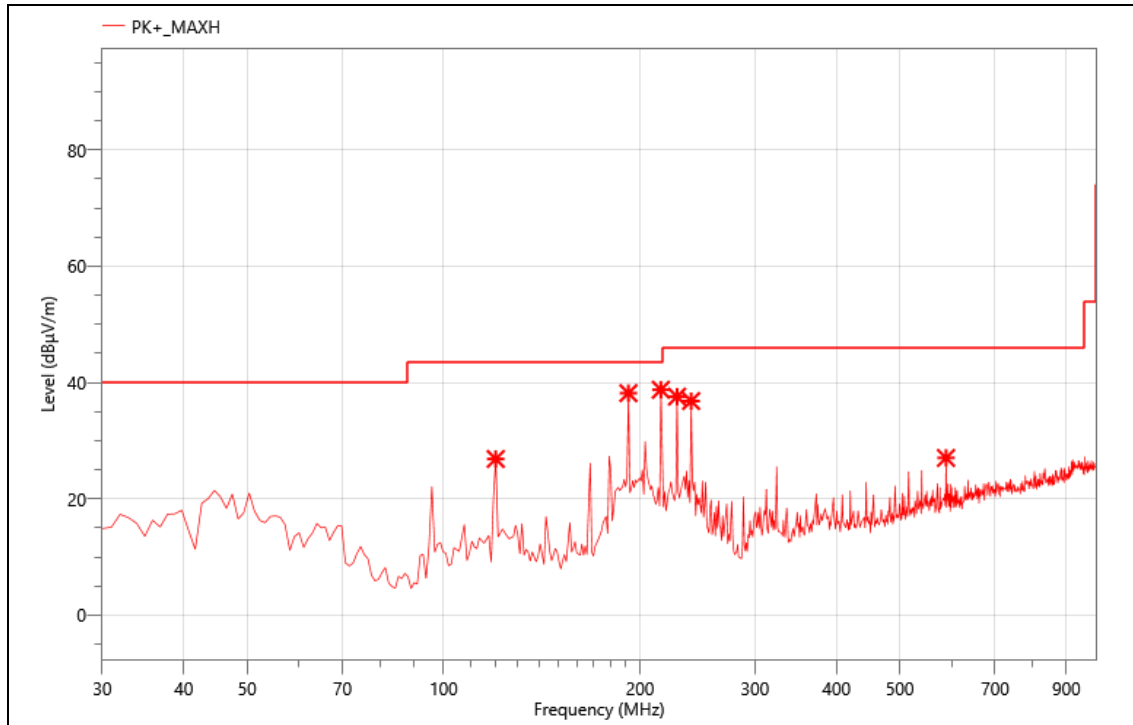
The worst result as bellow:

Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	32.910	46.40	-16.04	30.36	40.00	9.64	PK+	V
2	44.550	54.46	-22.21	32.25	40.00	7.75	PK+	V
3	143.490	51.84	-23.01	28.83	43.50	14.67	PK+	V
4	191.990	57.63	-22.59	35.04	43.50	8.46	PK+	V
5	540.220	38.31	-10.01	28.30	46.00	17.70	PK+	V
6	749.740	35.59	-6.68	28.91	46.00	17.09	PK+	V

Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	120.210	51.43	-24.57	26.86	43.50	16.64	PK+	H
2	191.990	60.77	-22.59	38.18	43.50	5.32	PK+	H
3	215.270	59.59	-20.83	38.76	43.50	4.74	PK+	H
4	227.880	57.64	-20.06	37.58	46.00	8.42	PK+	H
5	239.520	56.08	-19.26	36.82	46.00	9.18	PK+	H
6	588.720	36.80	-9.76	27.04	46.00	18.96	PK+	H

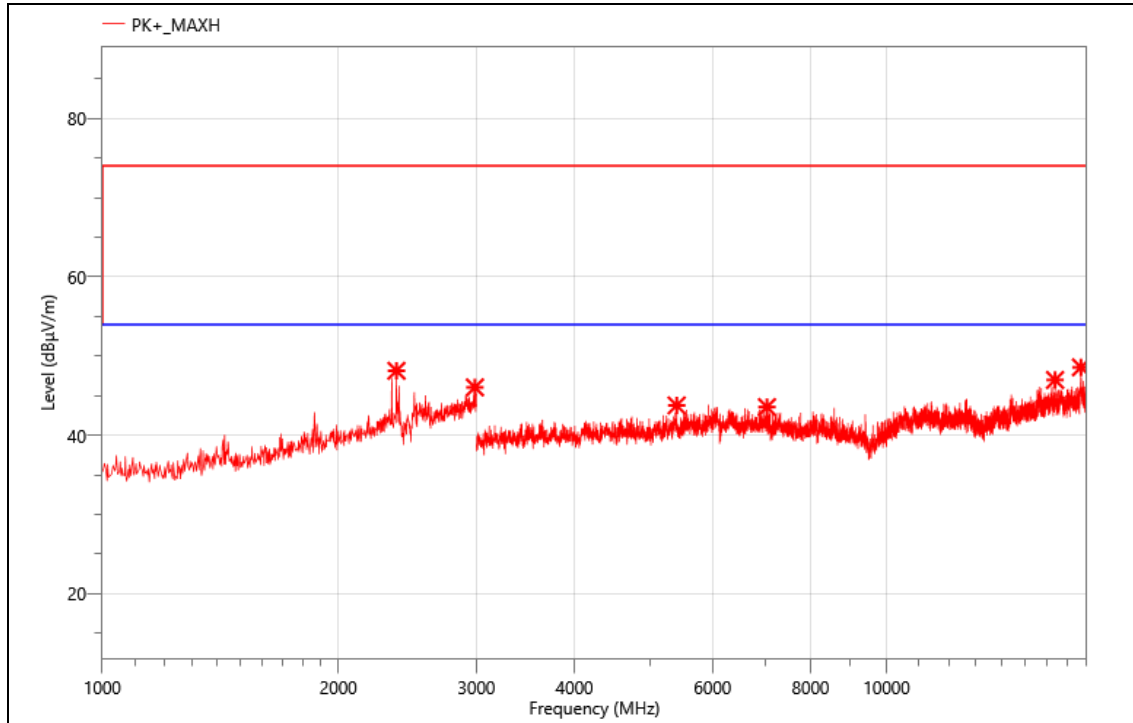
Note:

1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

● Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

The worst result as bellow:

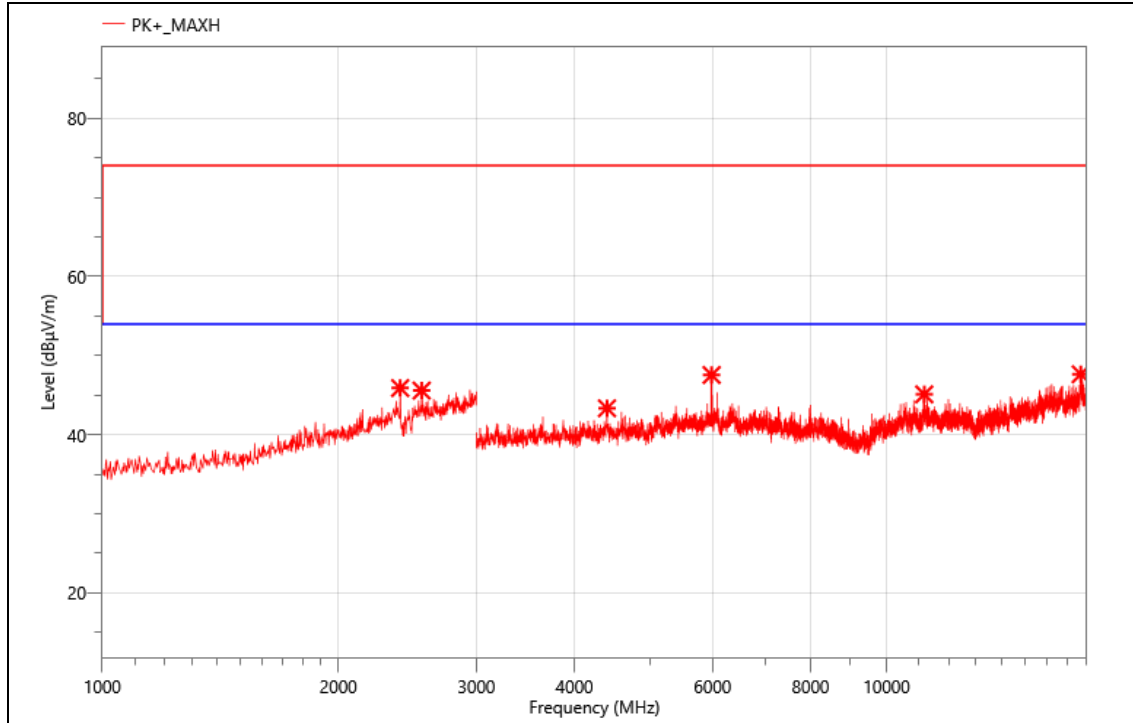
Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2372.000	56.61	-8.47	48.14	74.00	25.86	PK+	H
2	2986.000	53.02	-6.97	46.05	74.00	27.95	PK+	H
3	5400.000	53.18	-9.41	43.77	74.00	30.23	PK+	H
4	7039.500	51.39	-7.83	43.56	74.00	30.44	PK+	H
5	16401.000	48.14	-1.16	46.98	74.00	27.02	PK+	H
6	17695.500	48.37	0.21	48.58	74.00	25.42	PK+	H

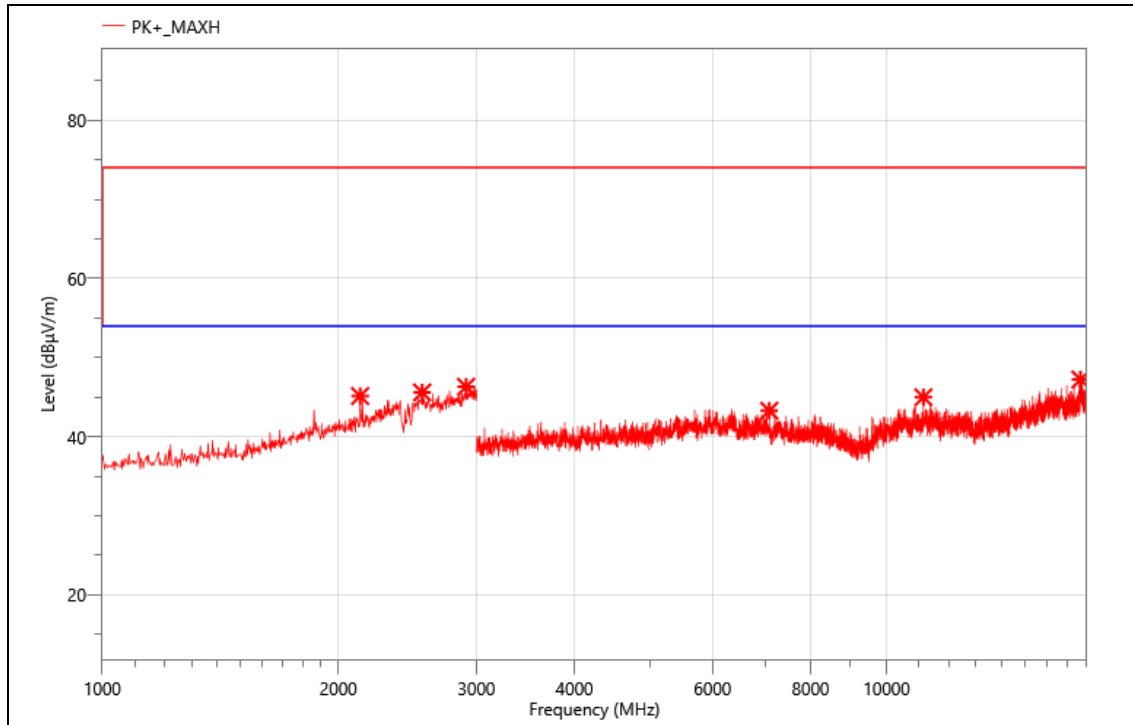
Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2398.000	54.43	-8.53	45.90	74.00	28.10	PK+	V
2	2554.000	53.65	-8.07	45.58	74.00	28.42	PK+	V
3	4401.000	55.23	-11.89	43.34	74.00	30.66	PK+	V
4	5983.500	56.58	-9.03	47.55	74.00	26.45	PK+	V
5	11170.500	49.47	-4.37	45.10	74.00	28.90	PK+	V
6	17683.500	47.37	0.27	47.64	74.00	26.36	PK+	V

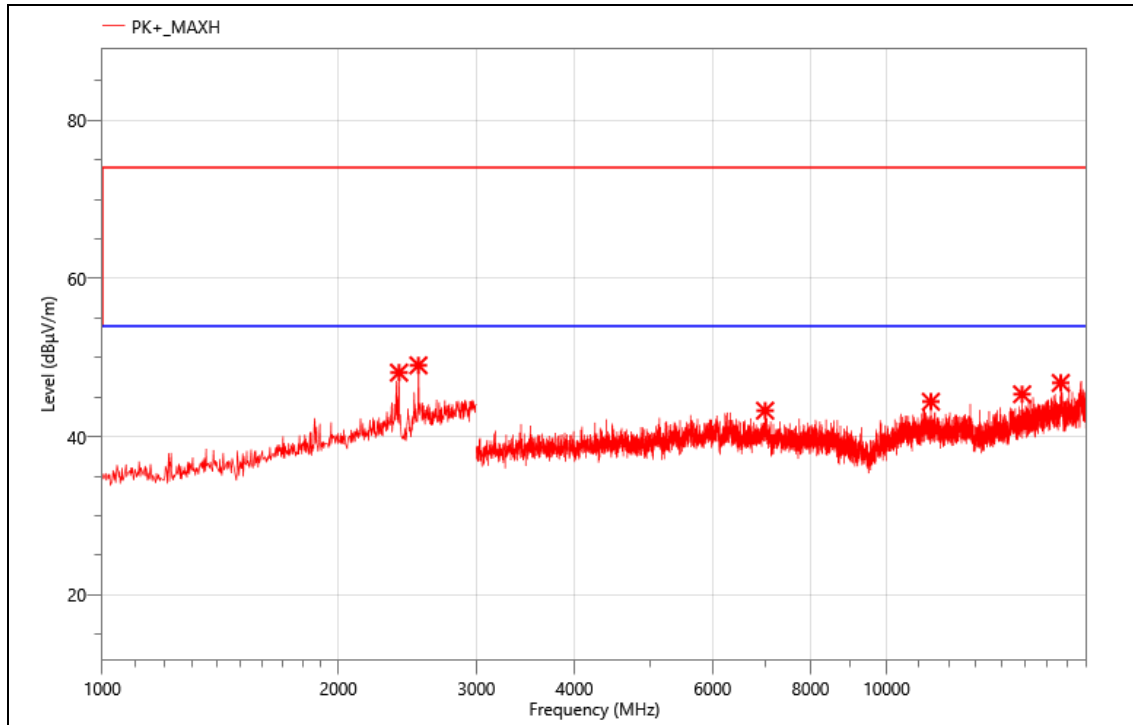
Mode:	GFSK 1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2132.000	54.19	-9.05	45.14	74.00	28.86	PK+	V
2	2558.000	53.64	-8.04	45.60	74.00	28.40	PK+	V
3	2910.000	54.00	-7.69	46.31	74.00	27.69	PK+	V
4	7086.000	51.32	-8.04	43.28	74.00	30.72	PK+	V
5	11143.500	49.23	-4.24	44.99	74.00	29.01	PK+	V
6	17671.500	46.95	0.28	47.23	74.00	26.77	PK+	V

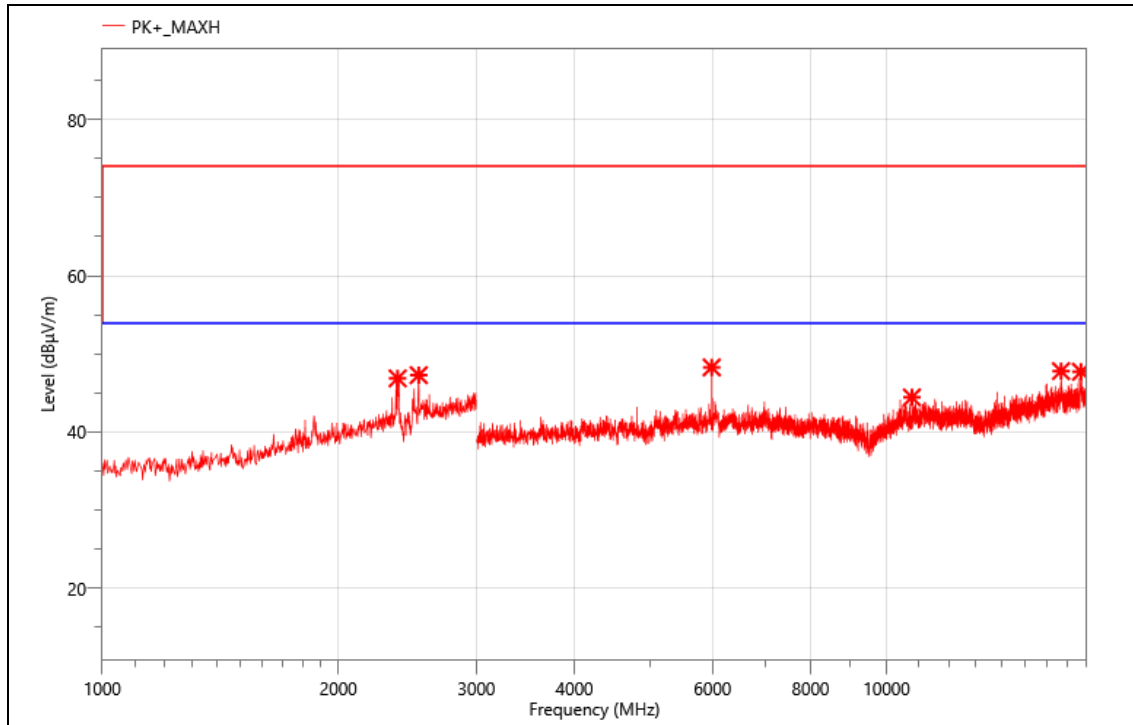
Mode:	GFSK 1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2390.000	56.63	-8.53	48.10	74.00	25.90	PK+	H
2	2530.000	57.66	-8.64	49.02	74.00	24.98	PK+	H
3	7000.500	51.09	-7.8	43.29	74.00	30.71	PK+	H
4	11389.500	48.66	-4.24	44.42	74.00	29.58	PK+	H
5	14887.500	48.06	-2.7	45.36	74.00	28.64	PK+	H
6	16678.500	47.28	-0.49	46.79	74.00	27.21	PK+	H

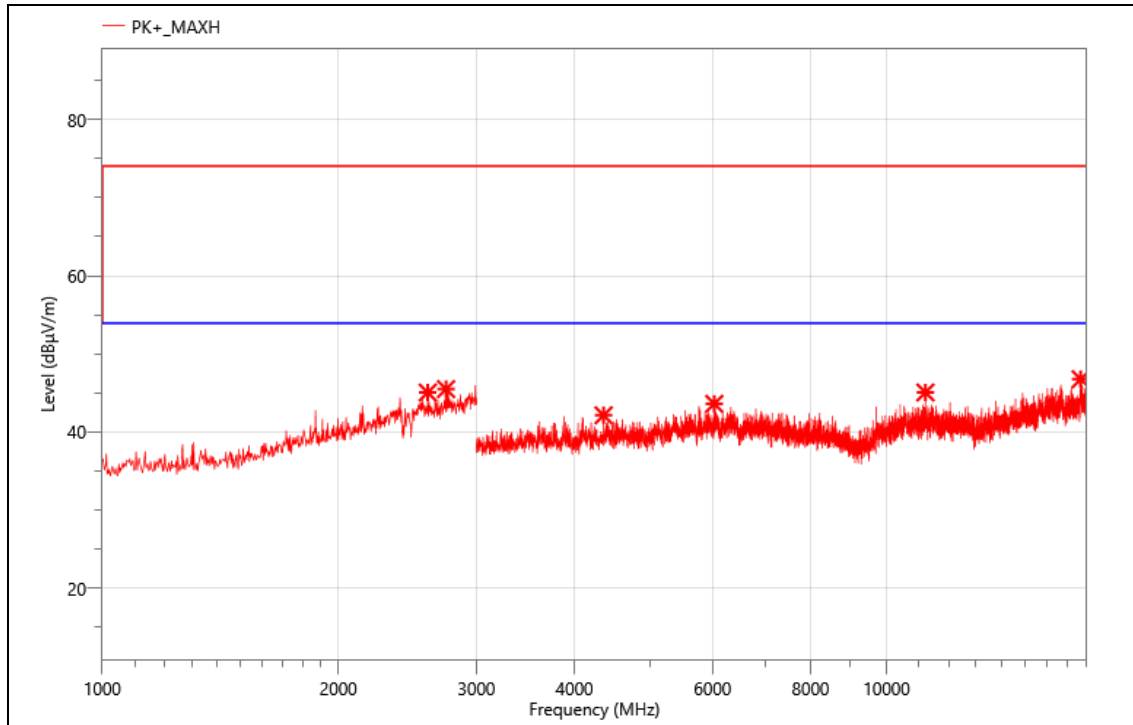
Mode:	GFSK 1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2380.000	55.40	-8.53	46.87	74.00	27.13	PK+	H
2	2532.000	55.89	-8.61	47.28	74.00	26.72	PK+	H
3	5985.000	57.28	-9.01	48.27	74.00	25.73	PK+	H
4	10771.500	49.71	-5.27	44.44	74.00	29.56	PK+	H
5	16690.500	48.29	-0.49	47.80	74.00	26.20	PK+	H
6	17700.000	47.54	0.18	47.72	74.00	26.28	PK+	H

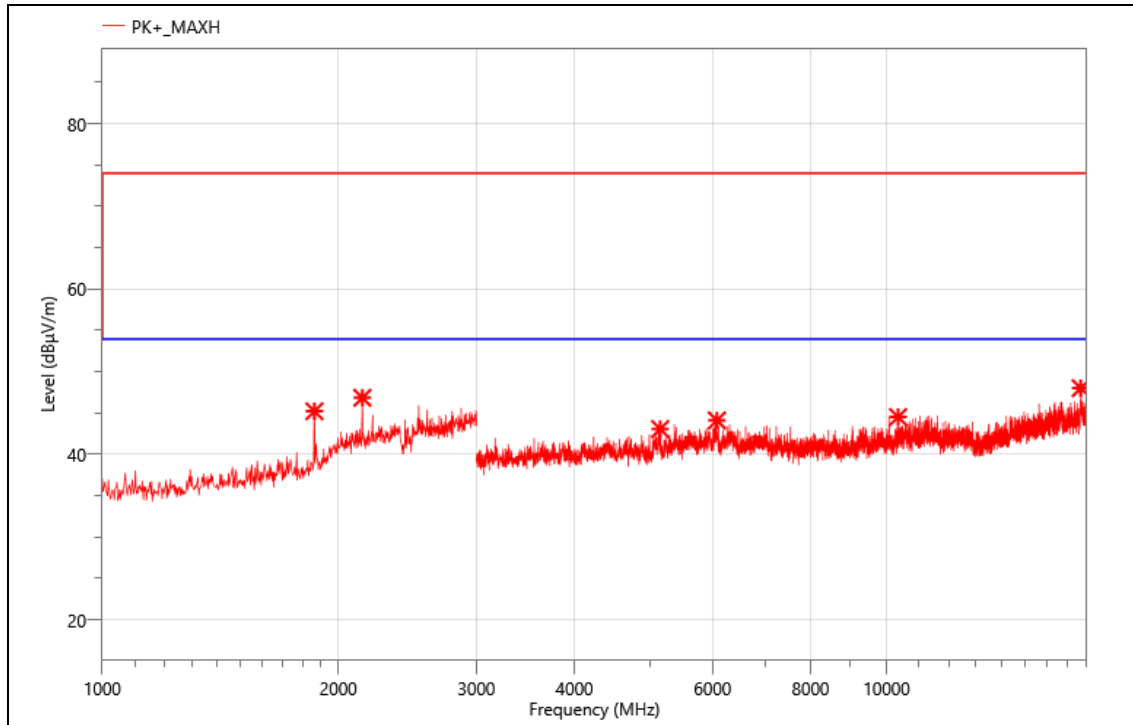
Mode:	GFSK 1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2600.000	53.21	-8.15	45.06	74.00	28.94	PK+	V
2	2744.000	53.74	-8.24	45.50	74.00	28.50	PK+	V
3	4357.500	54.33	-12.18	42.15	74.00	31.85	PK+	V
4	6030.000	52.11	-8.49	43.62	74.00	30.38	PK+	V
5	11208.000	49.34	-4.27	45.07	74.00	28.93	PK+	V
6	17680.500	46.48	0.29	46.77	74.00	27.23	PK+	V

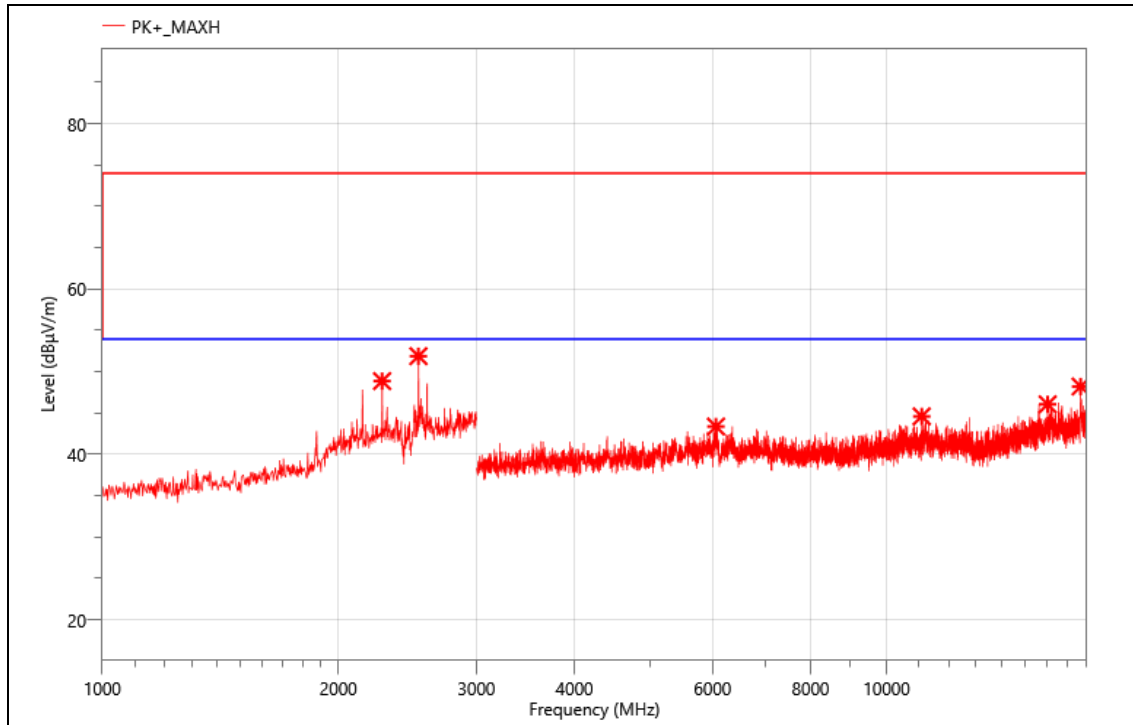
Mode:	QPST 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1864.000	55.62	-10.4	45.22	74.00	28.78	PK+	V
2	2146.000	55.90	-9.05	46.85	74.00	27.15	PK+	V
3	5145.000	53.46	-	43.07	74.00	30.93	PK+	V
4	6076.500	52.21	-8.1	44.11	74.00	29.89	PK+	V
5	10345.500	50.20	-5.68	44.52	74.00	29.48	PK+	V
6	17680.500	47.72	0.29	48.01	74.00	25.99	PK+	V

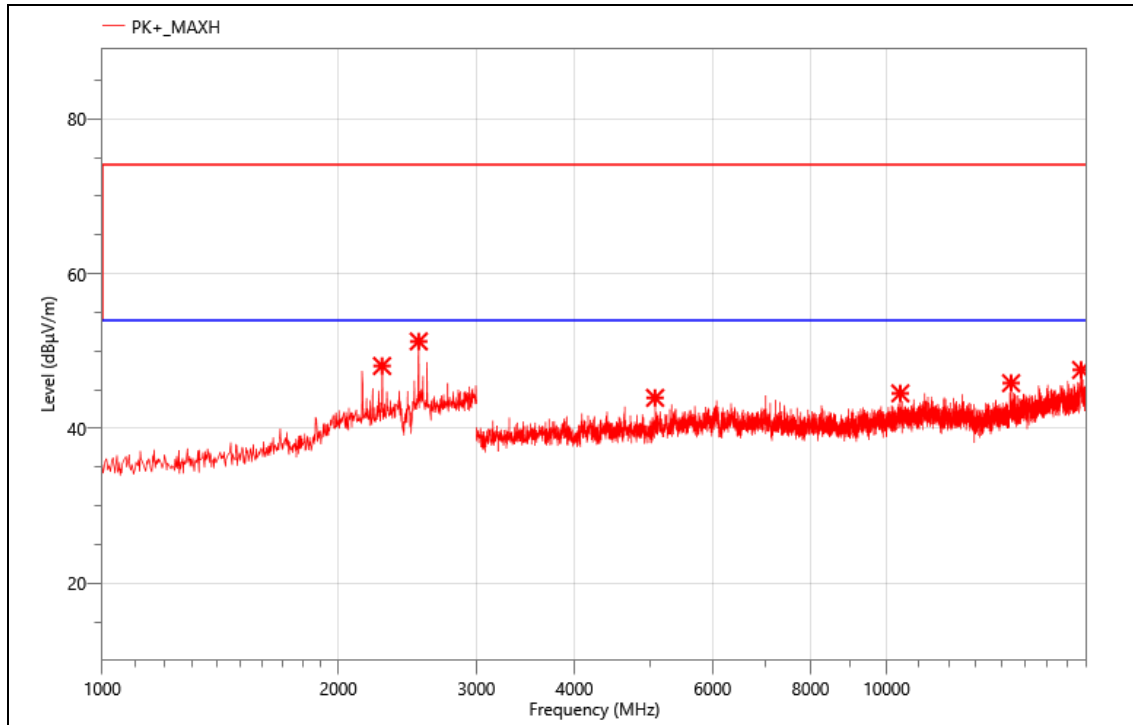
Mode:	QPST 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2274.000	58.05	-9.18	48.87	74.00	25.13	PK+	H
2	2530.000	60.52	-8.64	51.88	74.00	22.12	PK+	H
3	6060.000	51.33	-7.96	43.37	74.00	30.63	PK+	H
4	11086.500	49.07	-4.47	44.60	74.00	29.40	PK+	H
5	16047.000	47.70	-1.64	46.06	74.00	27.94	PK+	H
6	17679.000	47.92	0.29	48.21	74.00	25.79	PK+	H

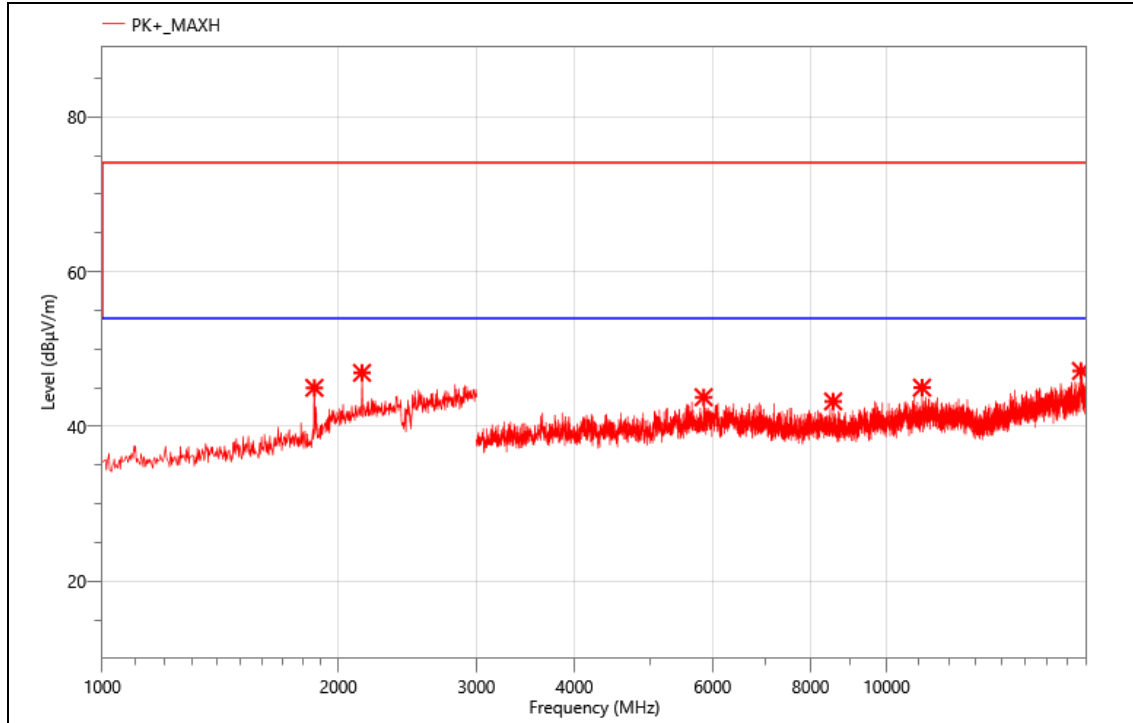
Mode:	QPST 1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2274.000	57.26	-9.18	48.08	74.00	25.92	PK+	H
2	2532.000	59.86	-8.61	51.25	74.00	22.75	PK+	H
3	5068.500	54.43	-10.47	43.96	74.00	30.04	PK+	H
4	10411.500	50.05	-5.51	44.54	74.00	29.46	PK+	H
5	14416.500	49.20	-3.34	45.86	74.00	28.14	PK+	H
6	17704.500	47.48	0.08	47.56	74.00	26.44	PK+	H

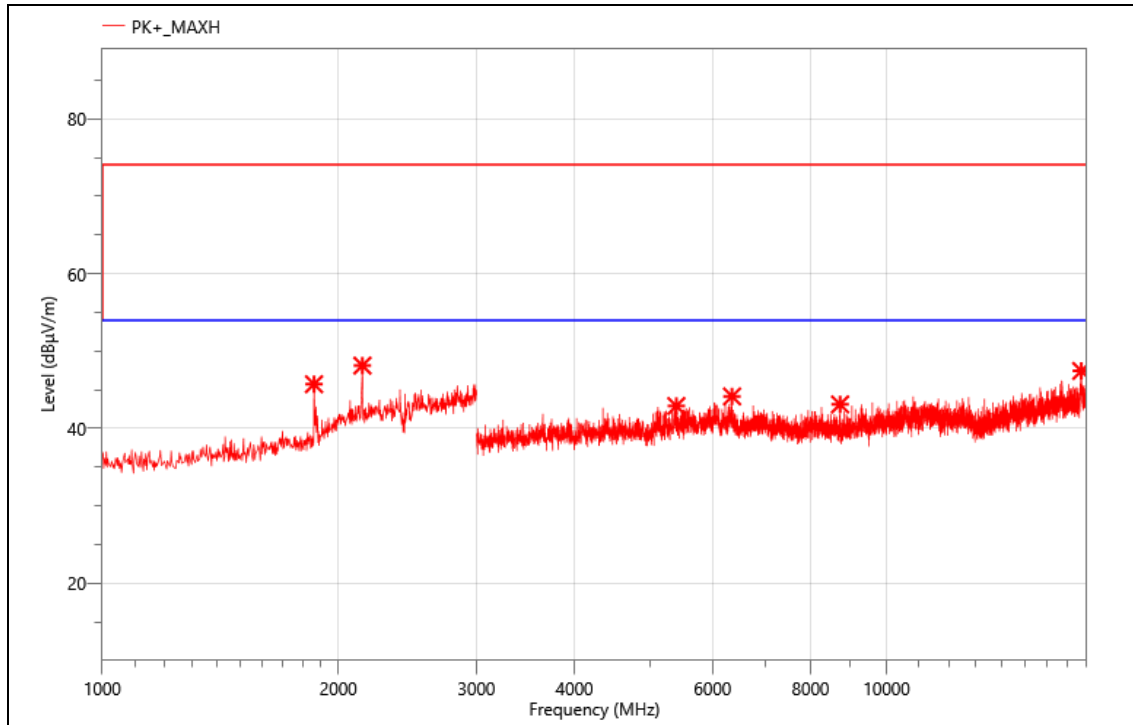
Mode:	QPST 1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1864.000	55.39	-10.4	44.99	74.00	29.01	PK+	V
2	2144.000	55.98	-9.05	46.93	74.00	27.07	PK+	V
3	5845.500	52.97	-9.19	43.78	74.00	30.22	PK+	V
4	8548.500	51.21	-7.97	43.24	74.00	30.76	PK+	V
5	11098.500	49.43	-4.41	45.02	74.00	28.98	PK+	V
6	17698.500	46.98	0.19	47.17	74.00	26.83	PK+	V

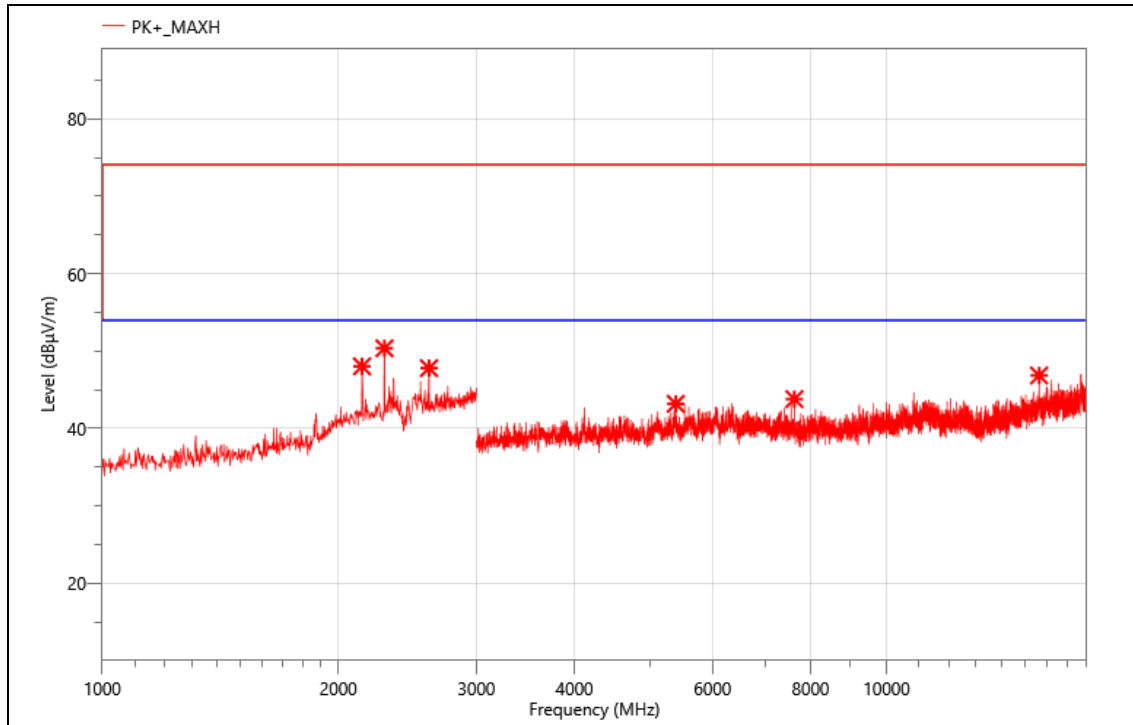
Mode:	QPST 1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1862.000	56.14	-10.41	45.73	74.00	28.27	PK+	V
2	2146.000	57.18	-9.05	48.13	74.00	25.87	PK+	V
3	5394.000	52.20	-9.29	42.91	74.00	31.09	PK+	V
4	6352.500	52.09	-7.94	44.15	74.00	29.85	PK+	V
5	8724.000	51.26	-8.14	43.12	74.00	30.88	PK+	V
6	17715.000	47.58	-0.14	47.44	74.00	26.56	PK+	V

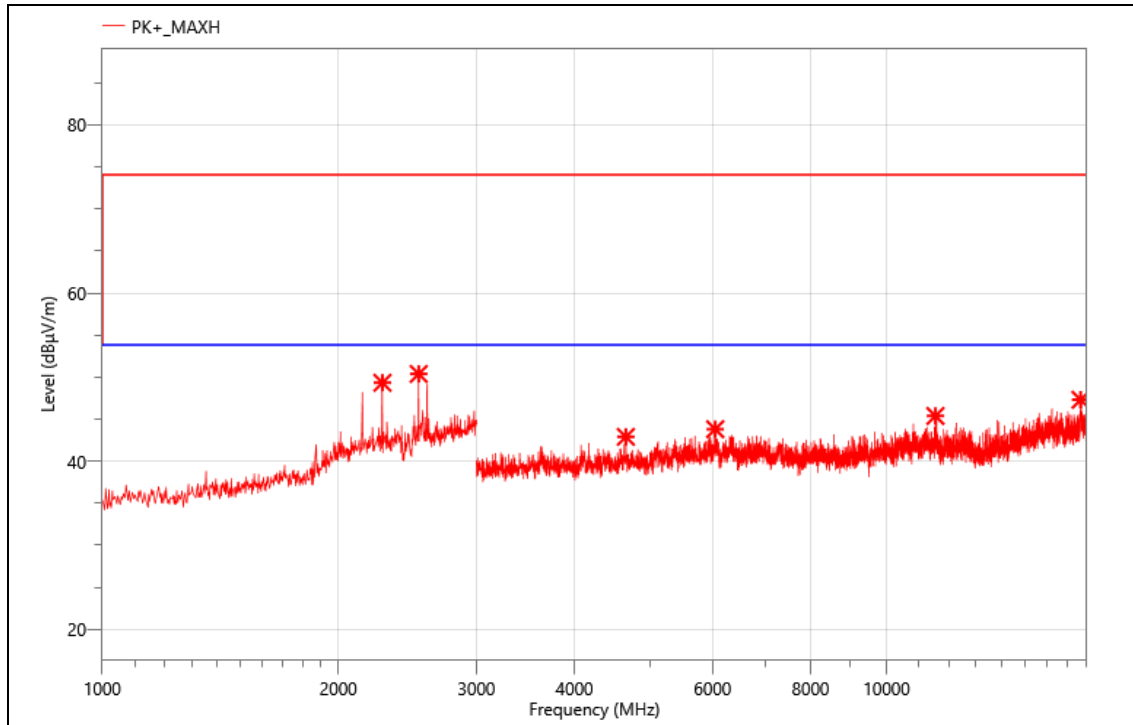
Mode:	QPST 1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2144.000	57.08	-9.05	48.03	74.00	25.97	PK+	H
2	2290.000	59.42	-9.06	50.36	74.00	23.64	PK+	H
3	2610.000	56.06	-8.26	47.80	74.00	26.20	PK+	H
4	5386.500	52.33	-9.14	43.19	74.00	30.81	PK+	H
5	7629.000	51.60	-7.8	43.80	74.00	30.20	PK+	H
6	15651.000	48.89	-2.04	46.85	74.00	27.15	PK+	H

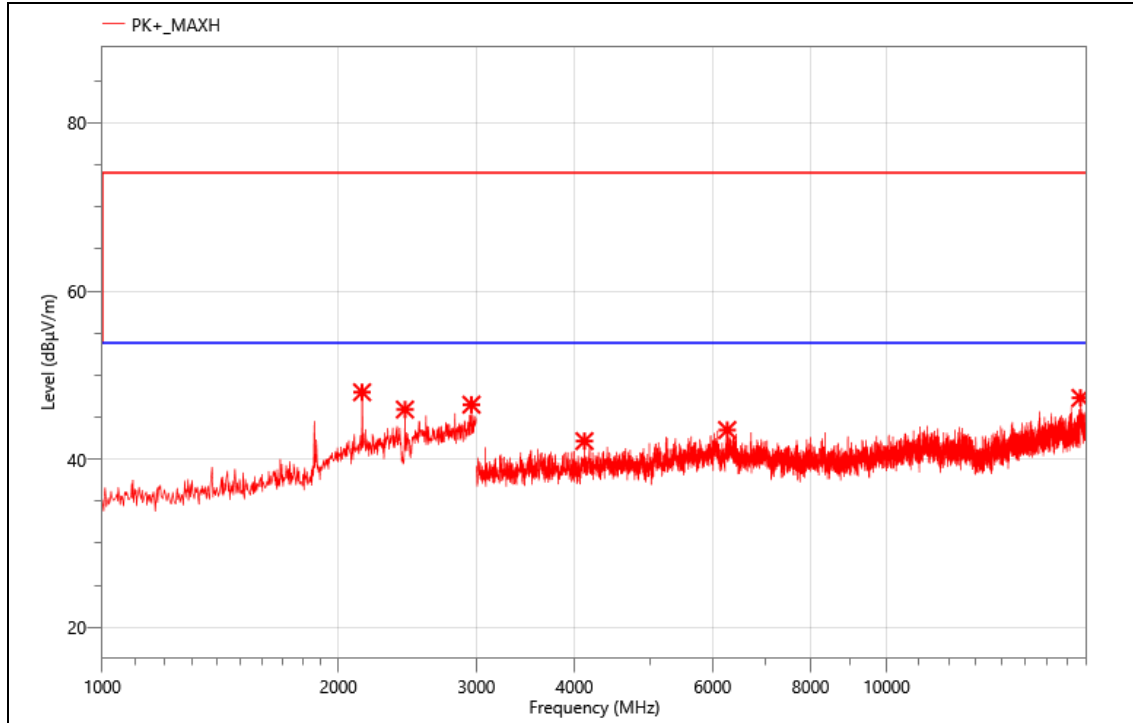
Mode:	8PSK-1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2276.000	58.53	-9.2	49.33	74.00	24.67	PK+	H
2	2532.000	58.99	-8.61	50.38	74.00	23.62	PK+	H
3	4651.500	54.57	-	42.90	74.00	31.10	PK+	H
4	6046.500	51.97	-8.16	43.81	74.00	30.19	PK+	H
5	11542.500	49.41	-4.03	45.38	74.00	28.62	PK+	H
6	17676.000	47.00	0.31	47.31	74.00	26.69	PK+	H

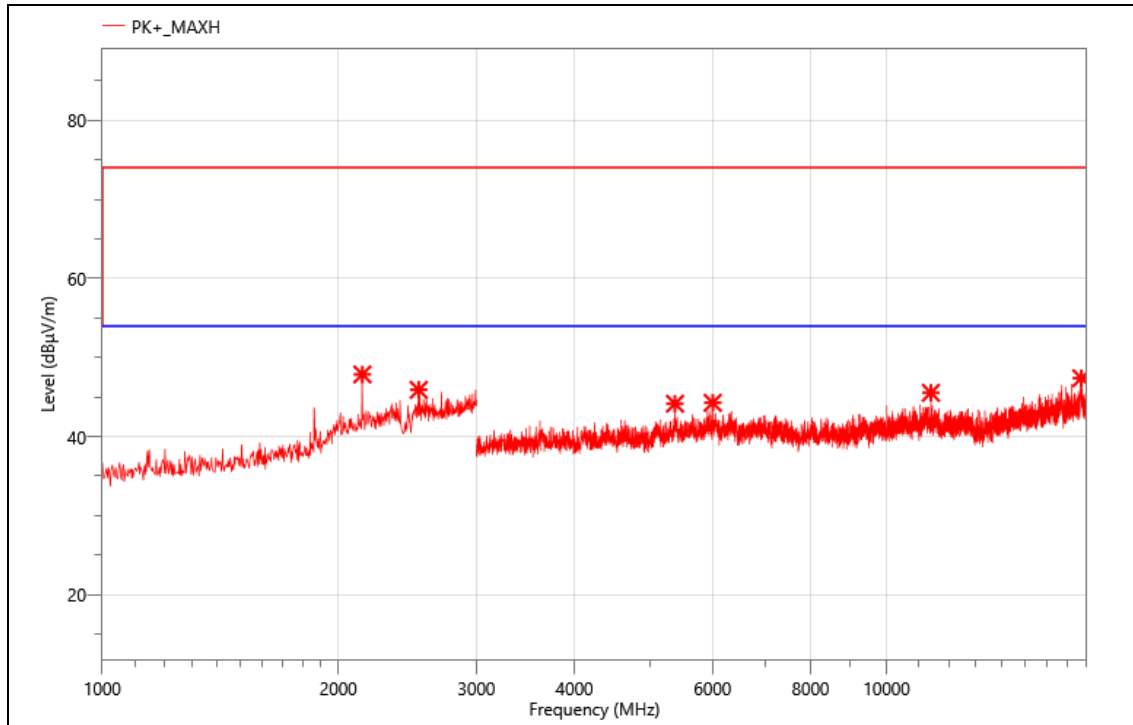
Mode:	8PSK-1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2144.000	57.02	-9.05	47.97	74.00	26.03	PK+	V
2	2432.000	54.40	-8.49	45.91	74.00	28.09	PK+	V
3	2956.000	53.88	-7.39	46.49	74.00	27.51	PK+	V
4	4119.000	54.71	-12.56	42.15	74.00	31.85	PK+	V
5	6264.000	51.90	-8.43	43.47	74.00	30.53	PK+	V
6	17671.500	47.01	0.28	47.29	74.00	26.71	PK+	V

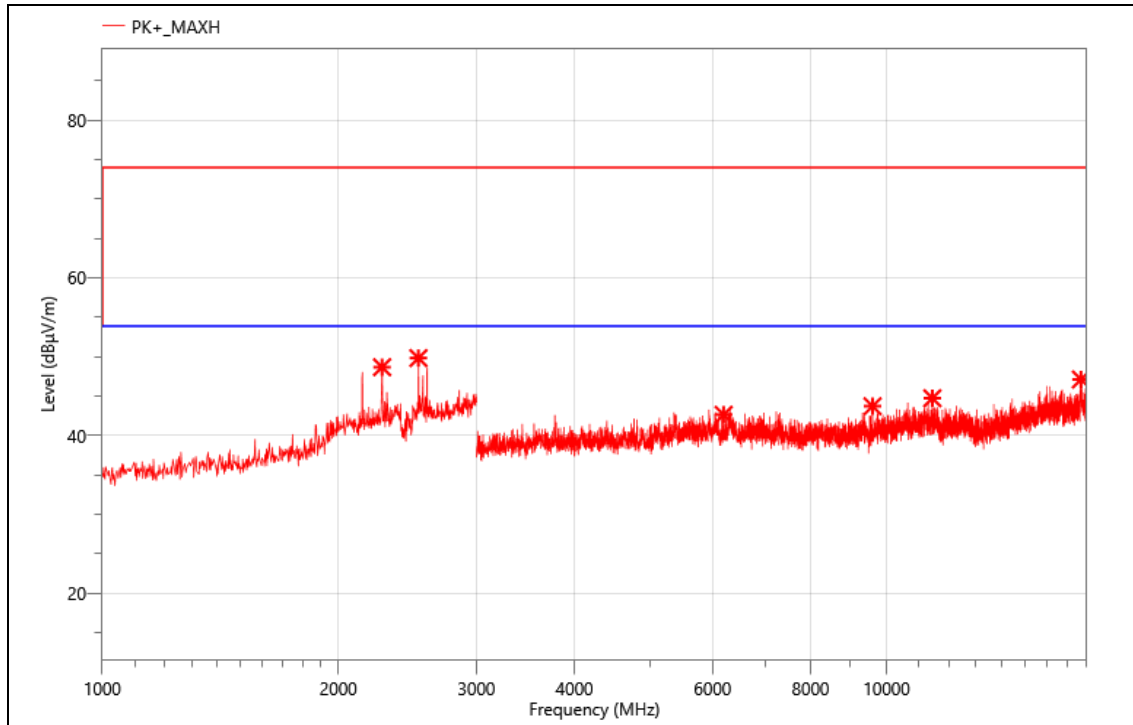
Mode:	8PSK-1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2146.000	56.91	-9.05	47.86	74.00	26.14	PK+	V
2	2532.000	54.52	-8.61	45.91	74.00	28.09	PK+	V
3	5373.000	53.39	-9.23	44.16	74.00	29.84	PK+	V
4	6003.000	53.11	-8.84	44.27	74.00	29.73	PK+	V
5	11391.000	49.75	-4.22	45.53	74.00	28.47	PK+	V
6	17713.500	47.49	-0.11	47.38	74.00	26.62	PK+	V

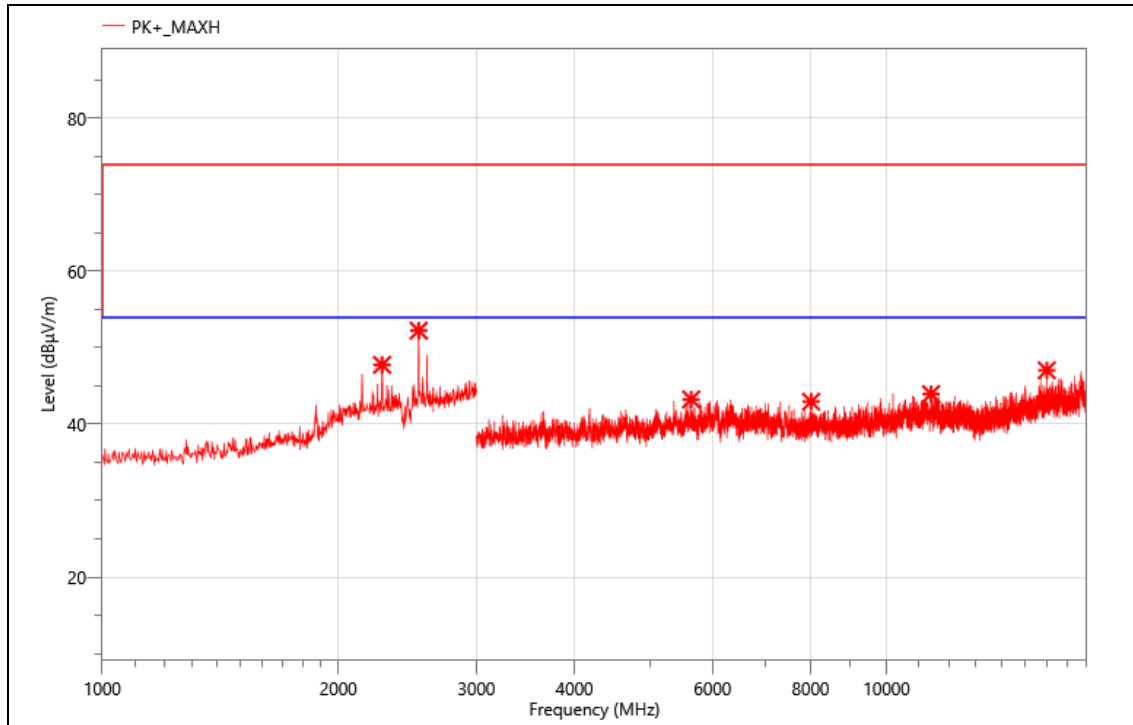
Mode:	8PSK-1M-2441
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2274.000	57.83	-9.18	48.65	74.00	25.35	PK+	H
2	2530.000	58.45	-8.64	49.81	74.00	24.19	PK+	H
3	6198.000	51.05	-8.43	42.62	74.00	31.38	PK+	H
4	9595.500	50.49	-6.79	43.70	74.00	30.30	PK+	H
5	11439.000	49.19	-4.48	44.71	74.00	29.29	PK+	H
6	17697.000	46.89	0.2	47.09	74.00	26.91	PK+	H

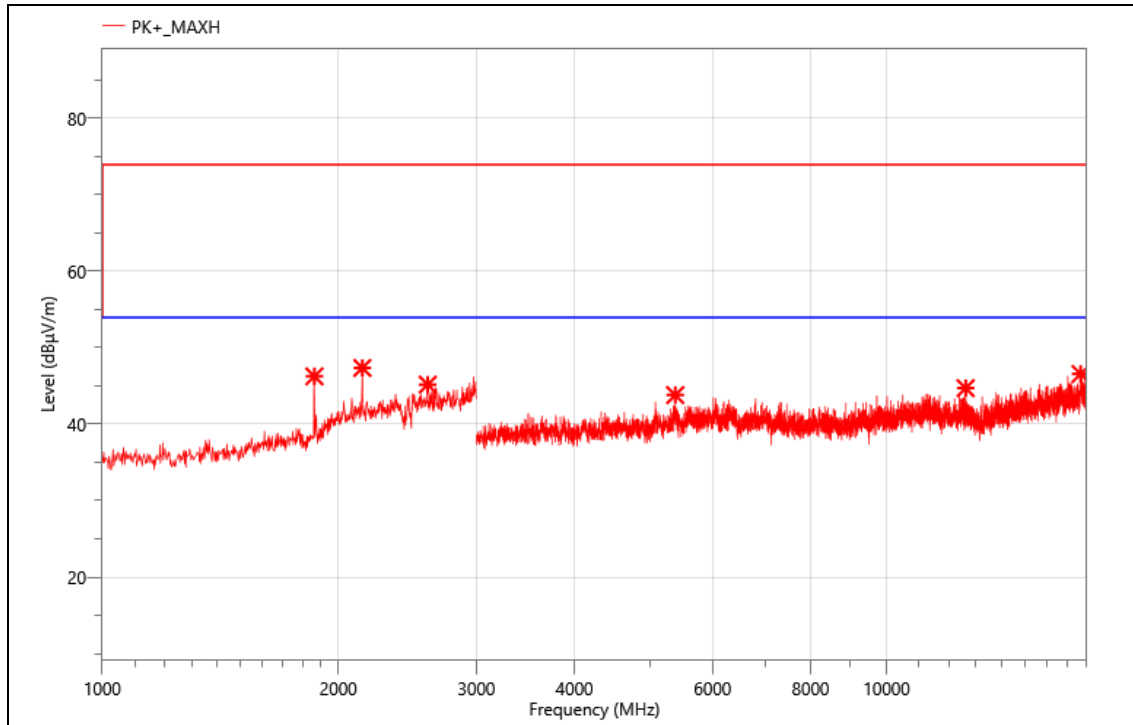
Mode:	8PSK-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2274.000	56.93	-9.18	47.75	74.00	26.25	PK+	H
2	2532.000	60.83	-8.61	52.22	74.00	21.78	PK+	H
3	5635.500	52.43	-9.2	43.23	74.00	30.77	PK+	H
4	8013.000	50.98	-8.05	42.93	74.00	31.07	PK+	H
5	11395.500	48.20	-4.27	43.93	74.00	30.07	PK+	H
6	16006.500	49.12	-2.08	47.04	74.00	26.96	PK+	H

Mode:	8PSK-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

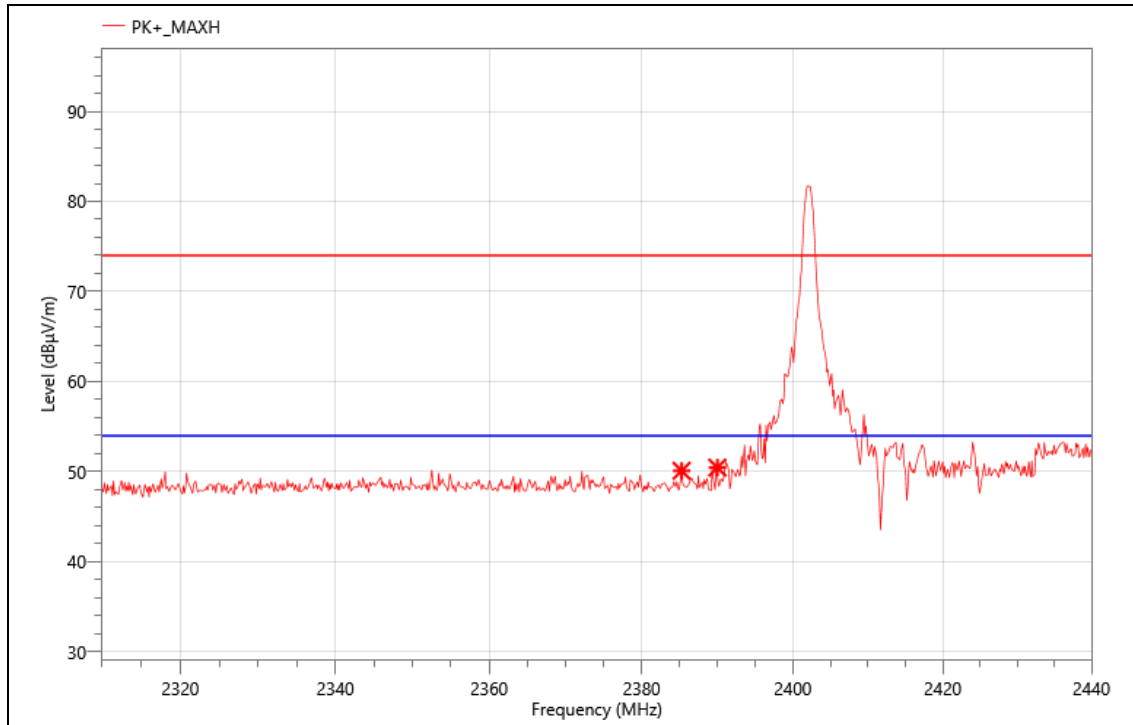
No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	1864.000	56.65	-10.4	46.25	74.00	27.75	PK+	V
2	2146.000	56.39	-9.05	47.34	74.00	26.66	PK+	V
3	2600.000	53.31	-8.15	45.16	74.00	28.84	PK+	V
4	5377.500	52.93	-9.13	43.80	74.00	30.20	PK+	V
5	12613.500	48.92	-4.22	44.70	74.00	29.30	PK+	V
6	17677.500	46.26	0.3	46.56	74.00	27.44	PK+	V

Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

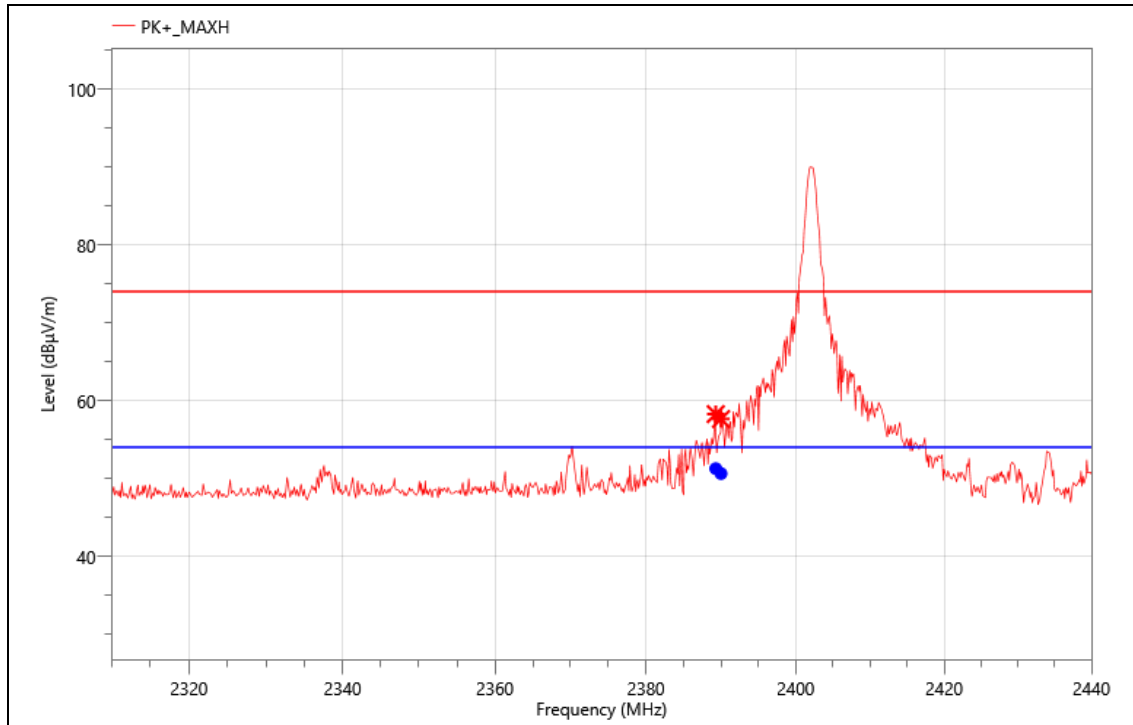
Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2385.270	27.45	22.63	50.08	74.00	23.92	PK+	V
2	2390.000	27.71	22.72	50.43	74.00	23.57	PK+	V

Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



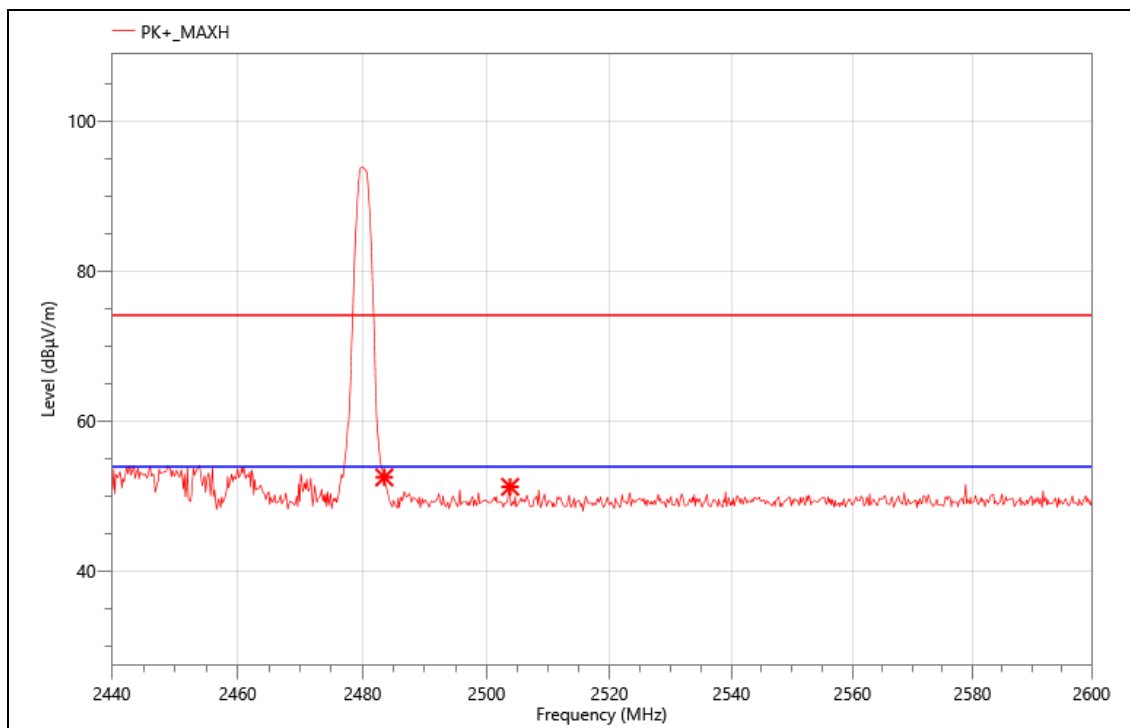
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2389.300	35.55	22.71	58.26	74.00	15.74	PK+	H
2	2390.000	34.90	22.72	57.62	74.00	16.38	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2389.300	28.55	22.71	51.26	53.90	2.64	AVG	H	PASS
2	2390.000	27.90	22.72	50.62	53.90	3.28	AVG	H	PASS

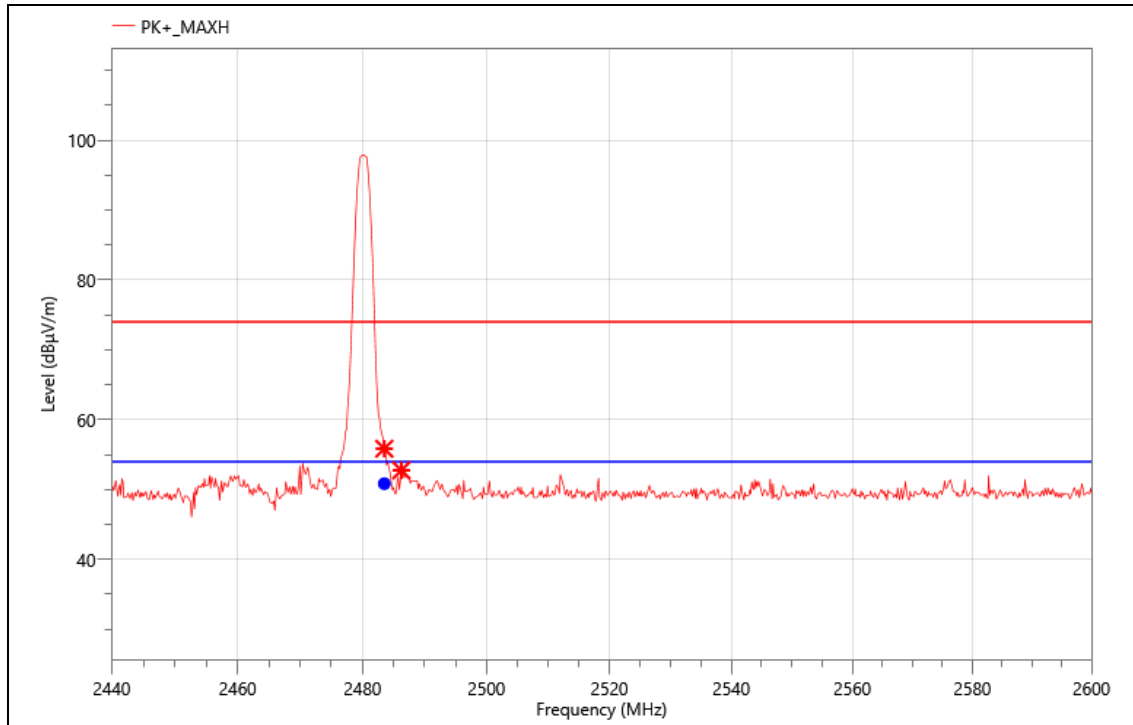
Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2483.500	29.31	23.15	52.46	74.00	21.54	PK+	V
2	2503.840	28.10	23.1	51.20	74.00	22.80	PK+	V

Mode:	GFSK 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/27
T/A/P	23.9°C/53%/101Kpa



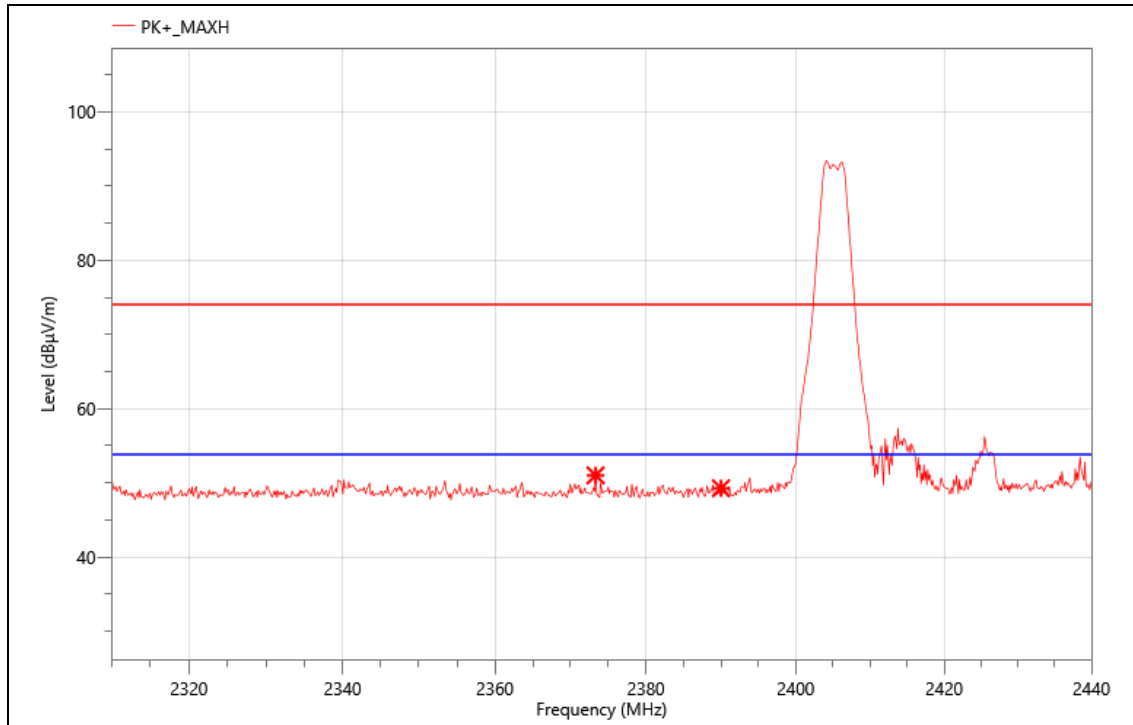
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	32.70	23.15	55.85	74.00	18.15	PK+	H
2	2486.240	29.61	23.14	52.75	74.00	21.25	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	27.70	23.15	50.85	53.90	3.05	AVG	H	PASS

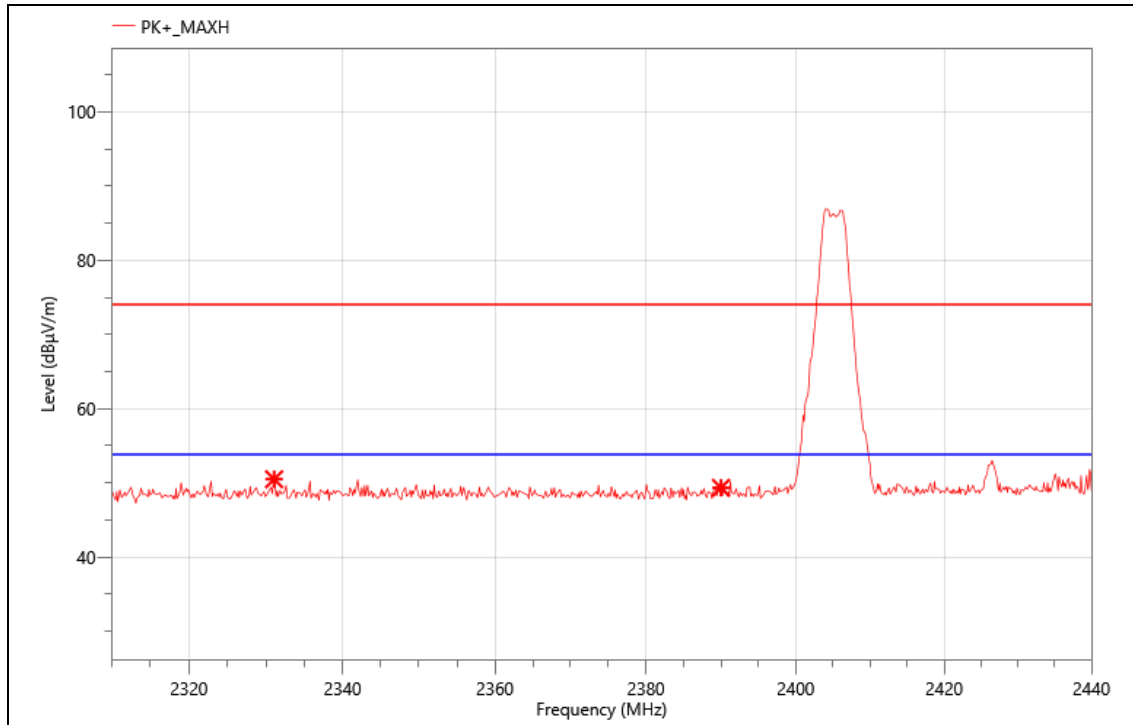
Mode:	GFSK 4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2373.310	28.42	22.59	51.01	74.00	22.99	PK+	H
2	2390.000	26.55	22.72	49.27	74.00	24.73	PK+	H

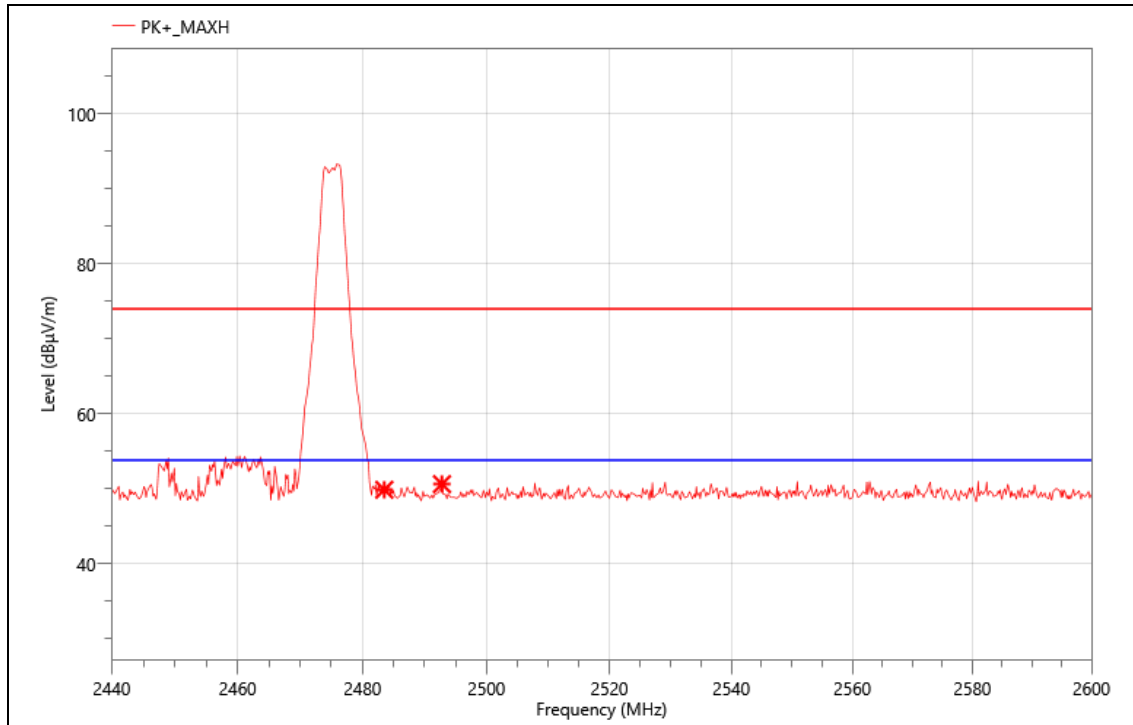
Mode:	GFSK 4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2331.060	27.91	22.58	50.49	74.00	23.51	PK+	V
2	2390.000	26.61	22.72	49.33	74.00	24.67	PK+	V

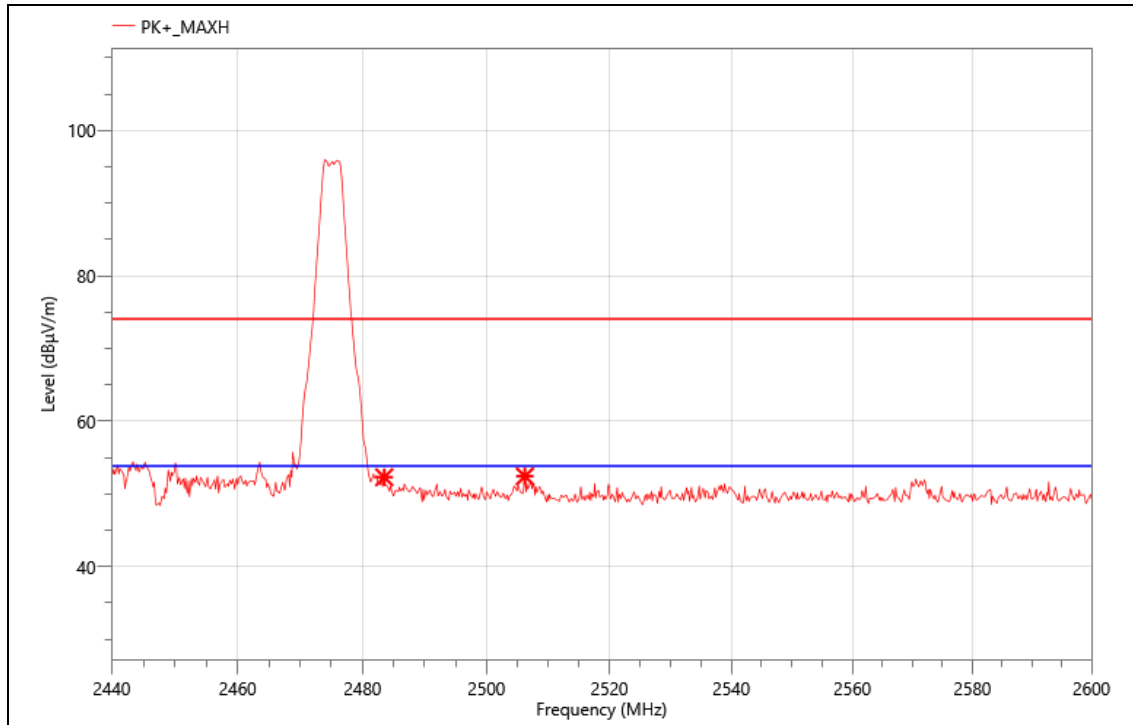
Mode:	GFSK 4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	26.73	23.15	49.88	74.00	24.12	PK+	V
2	2492.800	27.50	23.13	50.63	74.00	23.37	PK+	V

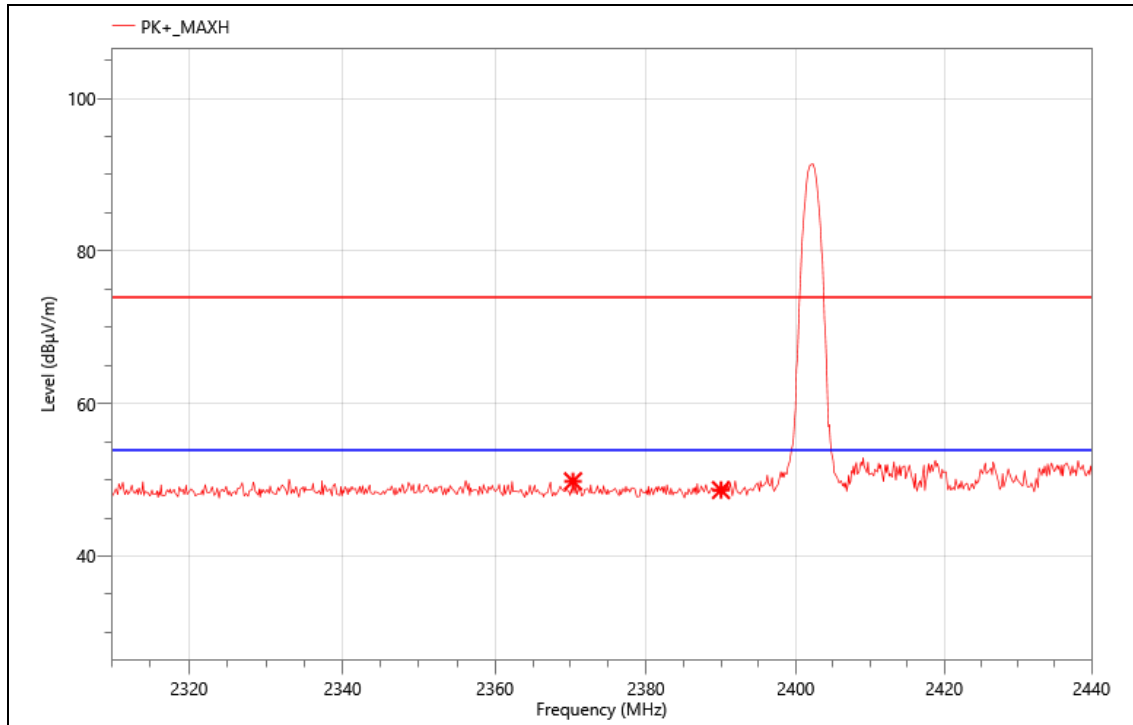
Mode:	GFSK 4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	29.15	23.15	52.30	74.00	21.70	PK+	H
2	2506.240	29.32	23.1	52.42	74.00	21.58	PK+	H

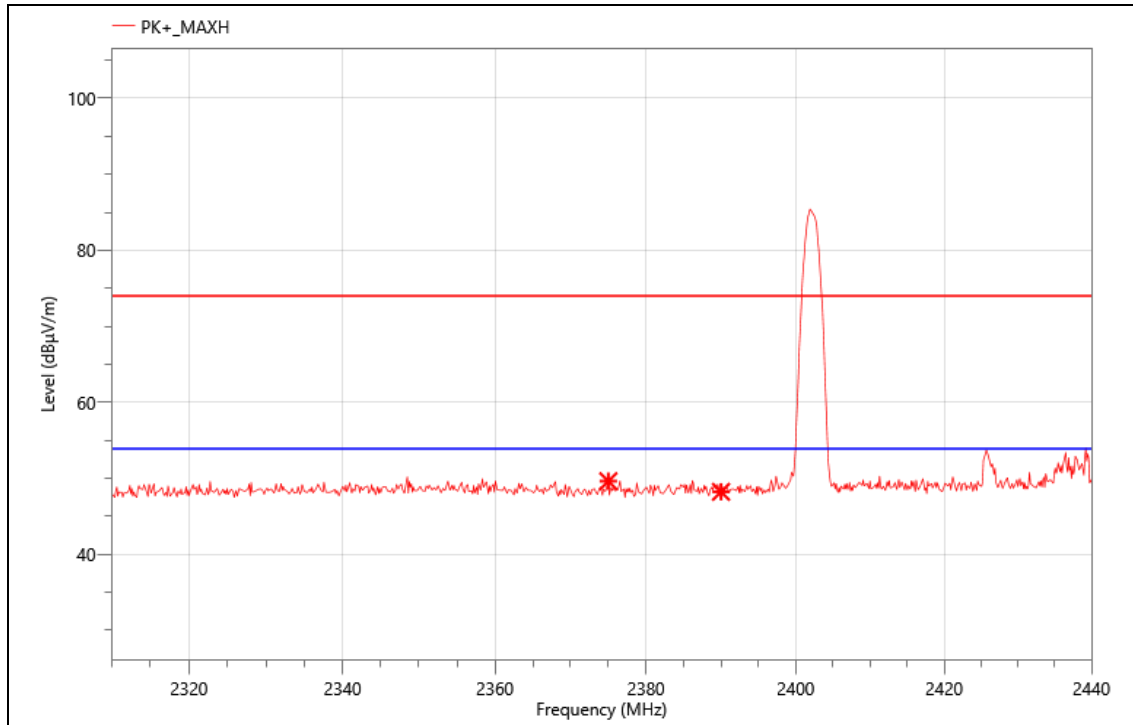
Mode:	QPST 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2370.320	27.19	22.62	49.81	74.00	24.19	PK+	H
2	2390.000	25.94	22.72	48.66	74.00	25.34	PK+	H

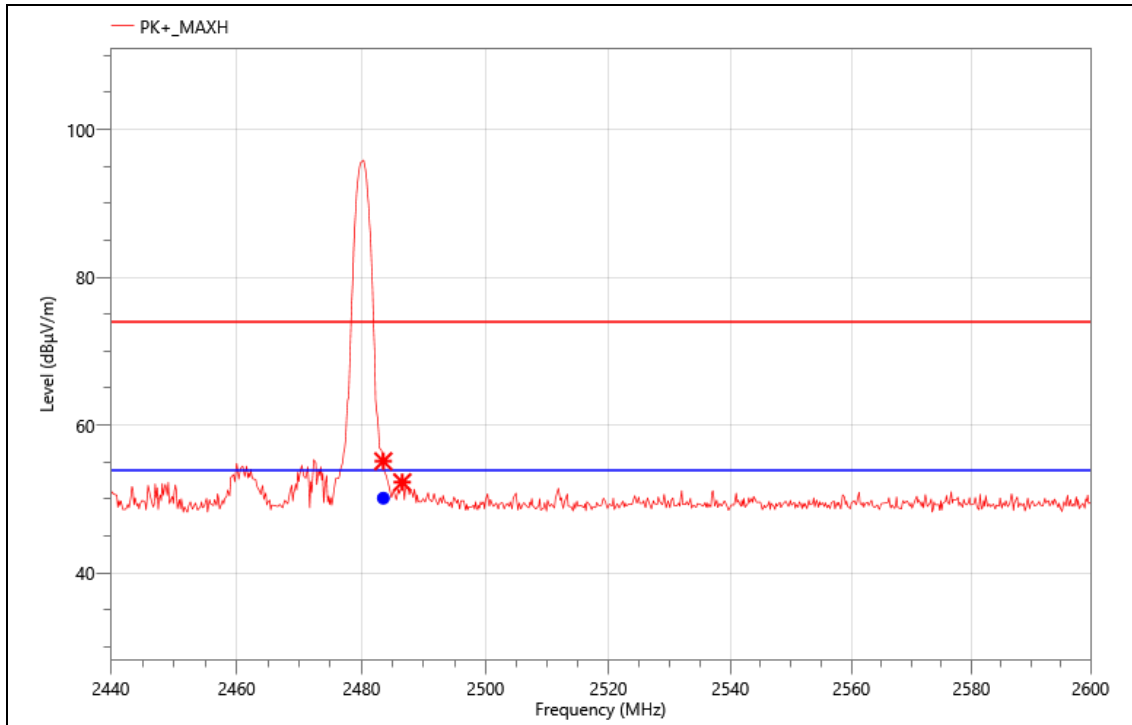
Mode:	QPST 1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2375.000	27.05	22.58	49.63	74.00	24.37	PK+	V
2	2390.000	25.51	22.72	48.23	74.00	25.77	PK+	V

Mode:	QPST-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



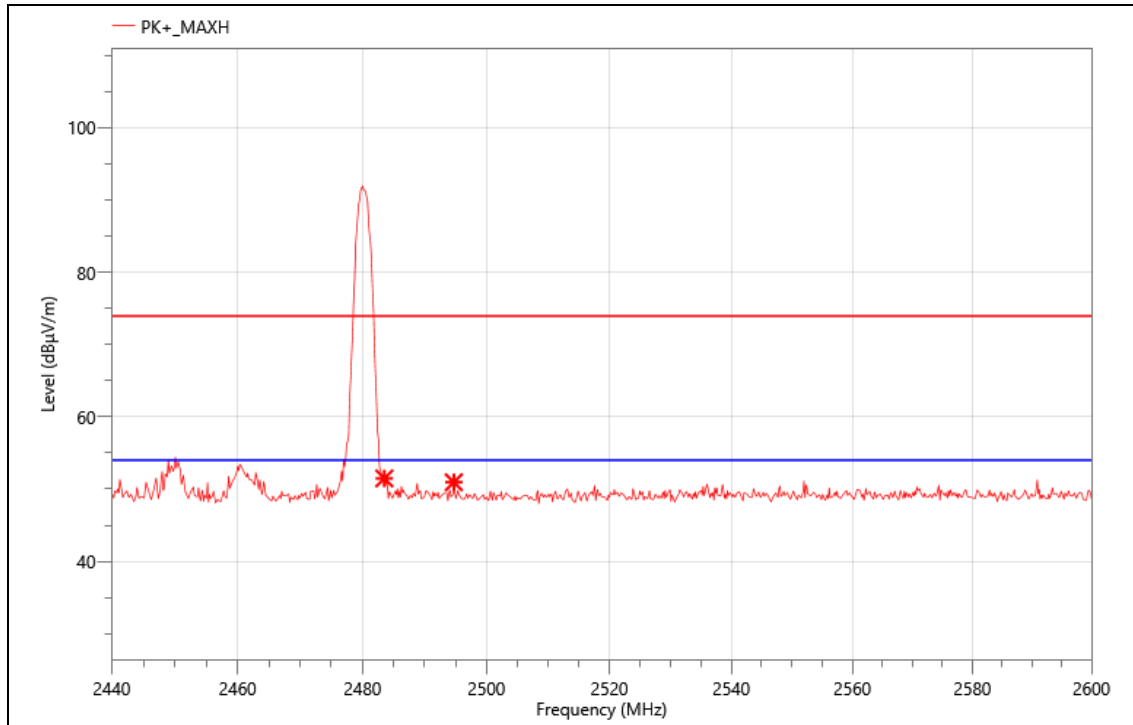
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	31.95	23.15	55.10	74.00	18.90	PK+	H
2	2486.560	29.12	23.14	52.26	74.00	21.74	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	26.95	23.15	50.10	53.90	3.80	AVG	H	PASS

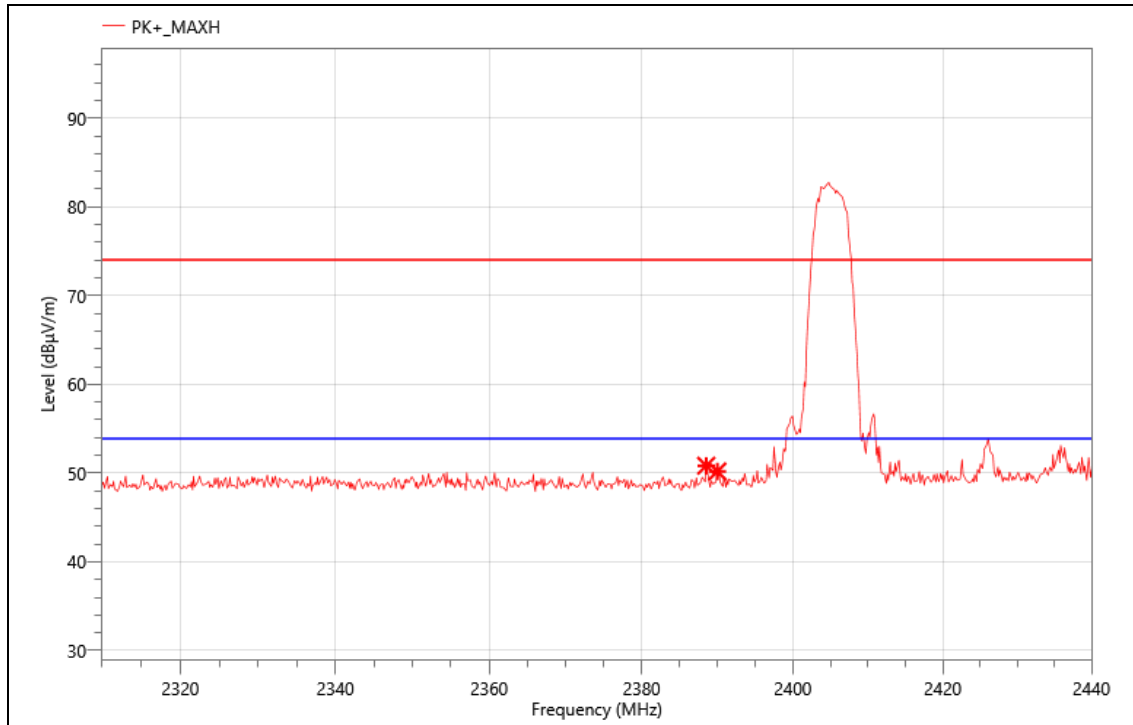
Mode:	QPST-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	28.33	23.15	51.48	74.00	22.52	PK+	V
2	2494.720	27.83	23.12	50.95	74.00	23.05	PK+	V

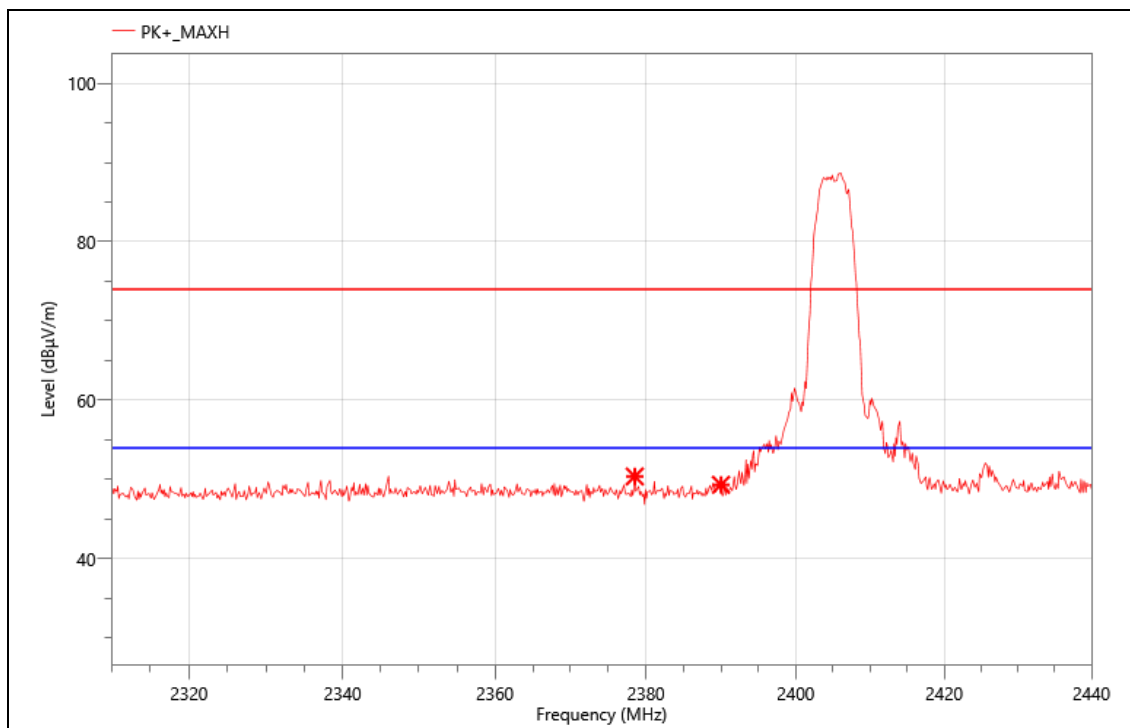
Mode:	QPST-4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2388.520	28.14	22.69	50.83	74.00	23.17	PK+	V
2	2390.000	27.47	22.72	50.19	74.00	23.81	PK+	V

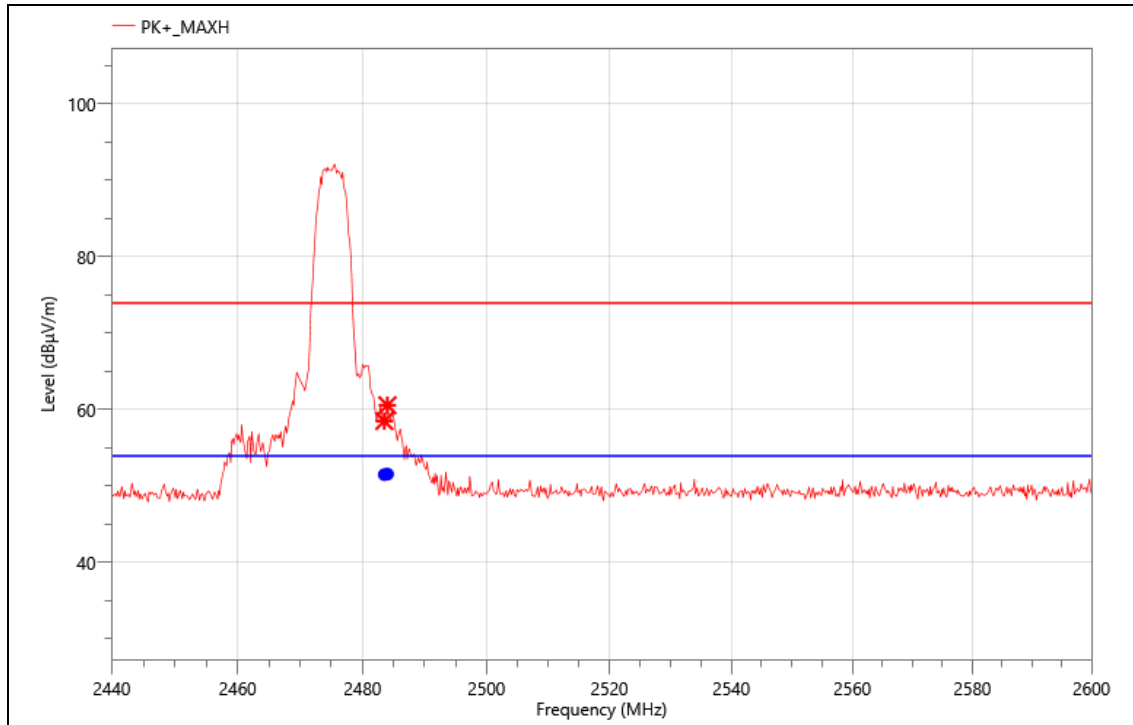
Mode:	QPST-4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2378.510	27.81	22.54	50.35	74.00	23.65	PK+	H
2	2390.000	26.57	22.72	49.29	74.00	24.71	PK+	H

Mode:	QPST-4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



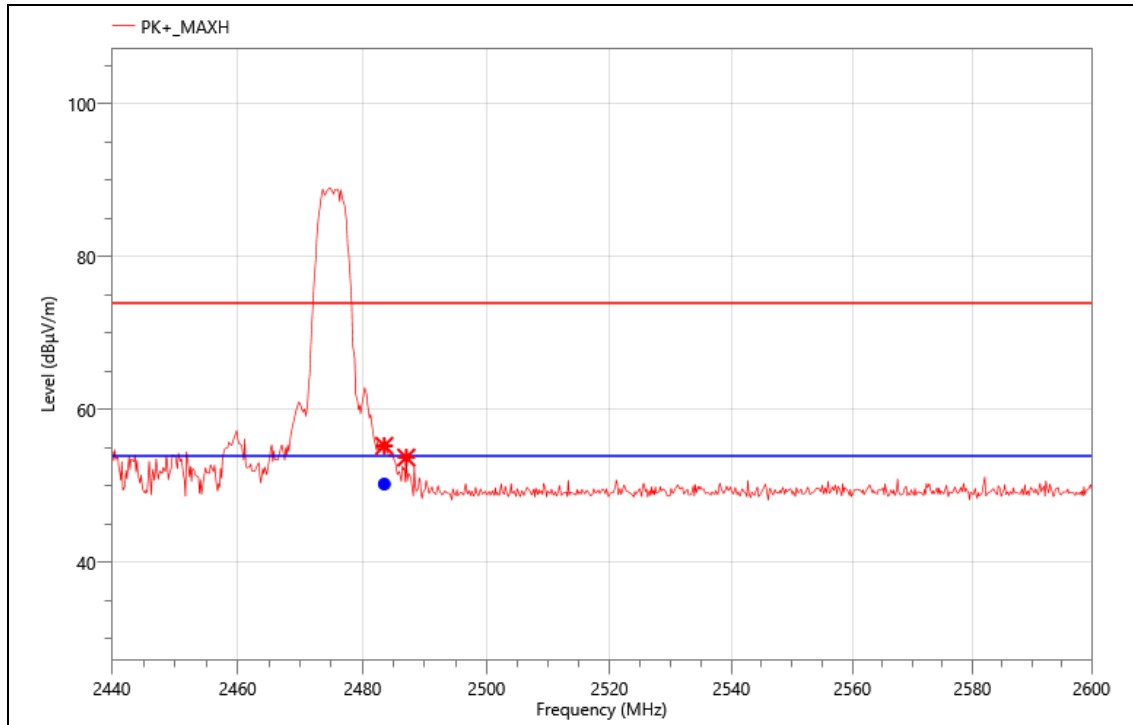
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	35.34	23.15	58.49	74.00	15.51	PK+	H
2	2484.000	37.41	23.15	60.56	74.00	13.44	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	28.34	23.15	51.49	53.90	2.41	AVG	H	PASS
2	2484.000	28.41	23.15	51.56	53.90	2.34	AVG	H	PASS

Mode:	QPST-4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



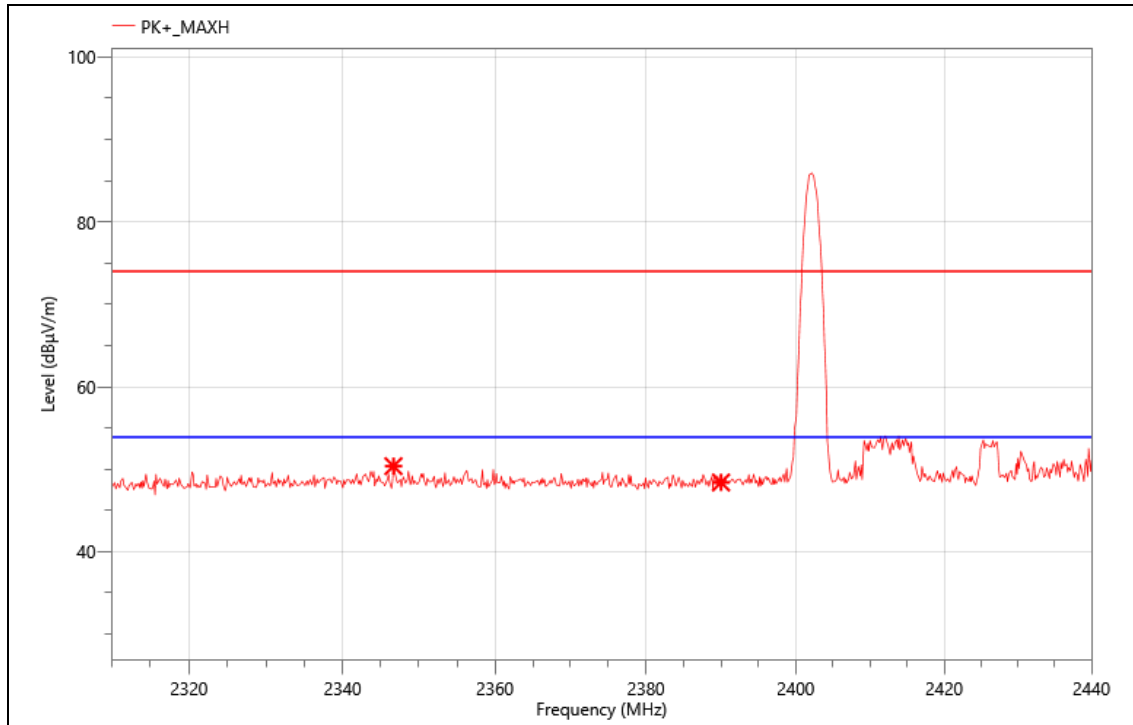
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	32.11	23.15	55.26	74.00	18.74	PK+	V
2	2487.040	30.59	23.14	53.73	74.00	20.27	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	27.11	23.15	50.26	53.90	3.64	AVG	V	PASS

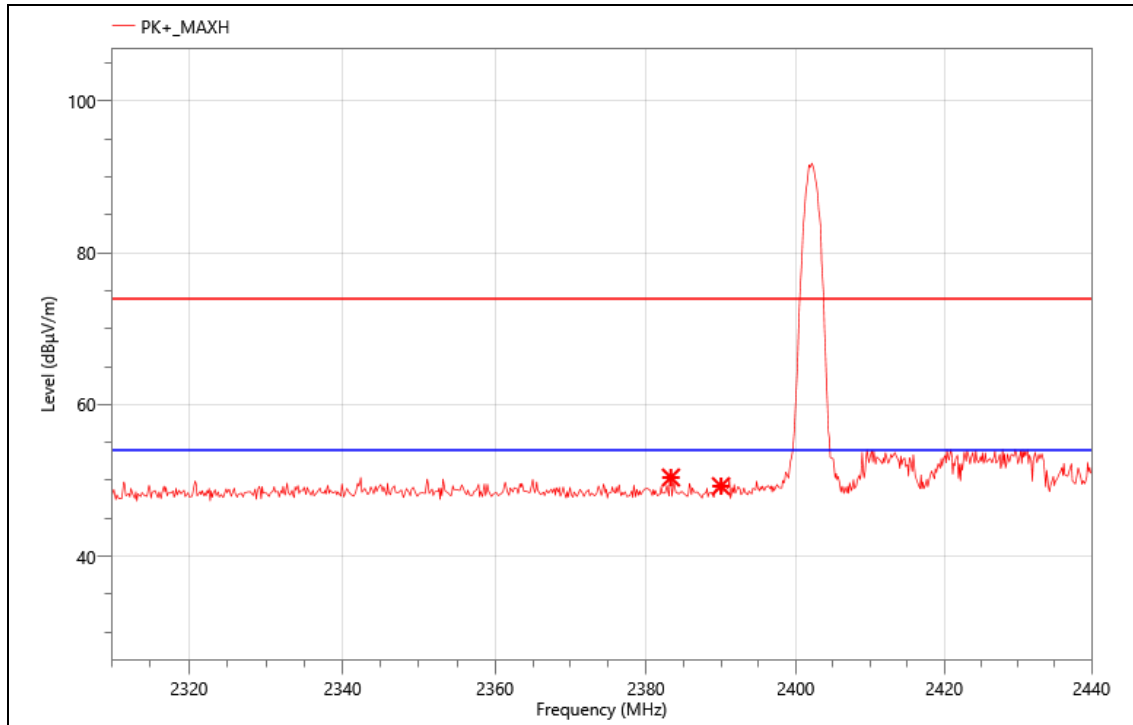
Mode:	8PSK-1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2346.660	27.67	22.71	50.38	74.00	23.62	PK+	V
2	2390.000	25.68	22.72	48.40	74.00	25.60	PK+	V

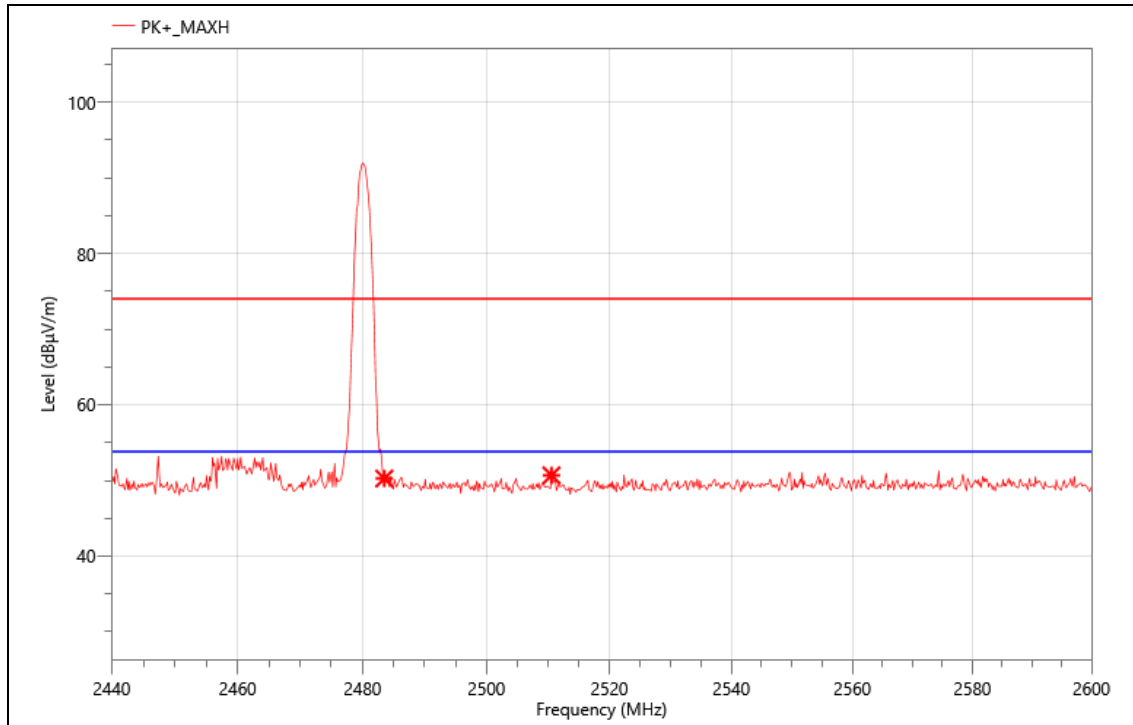
Mode:	8PSK-1M-2402
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2383.320	27.80	22.59	50.39	74.00	23.61	PK+	H
2	2390.000	26.53	22.72	49.25	74.00	24.75	PK+	H

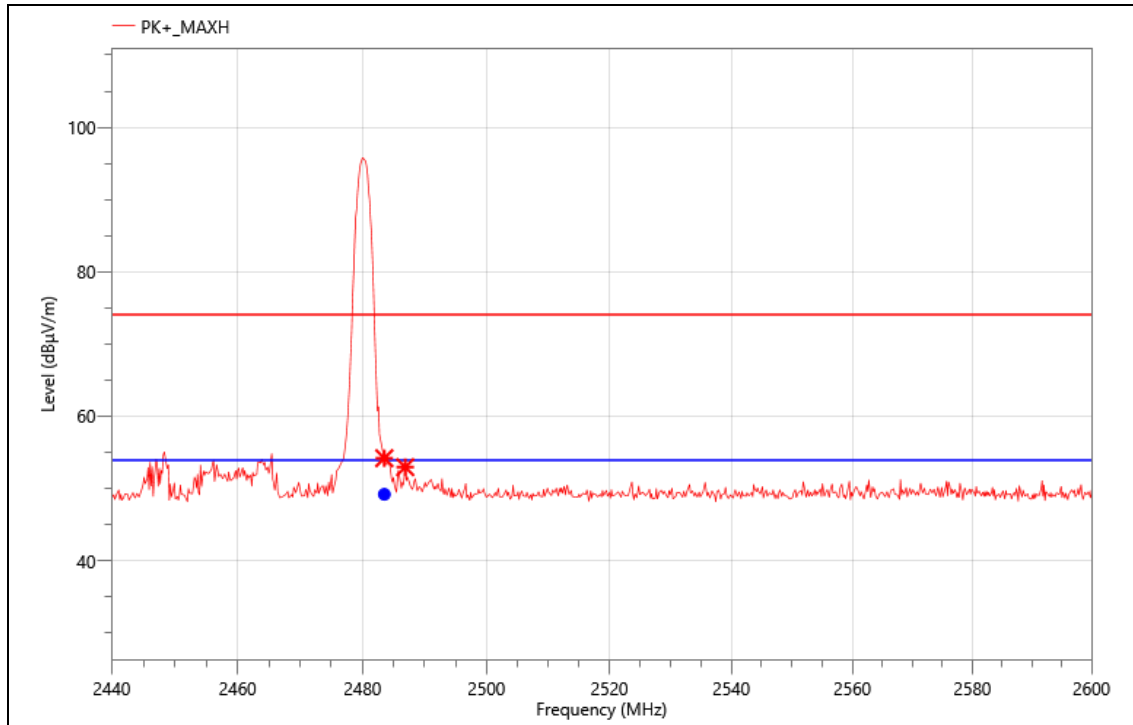
Mode:	8PSK-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	27.11	23.15	50.26	74.00	23.74	PK+	V
2	2510.560	27.56	23.11	50.67	74.00	23.33	PK+	V

Mode:	8PSK-1M-2480
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



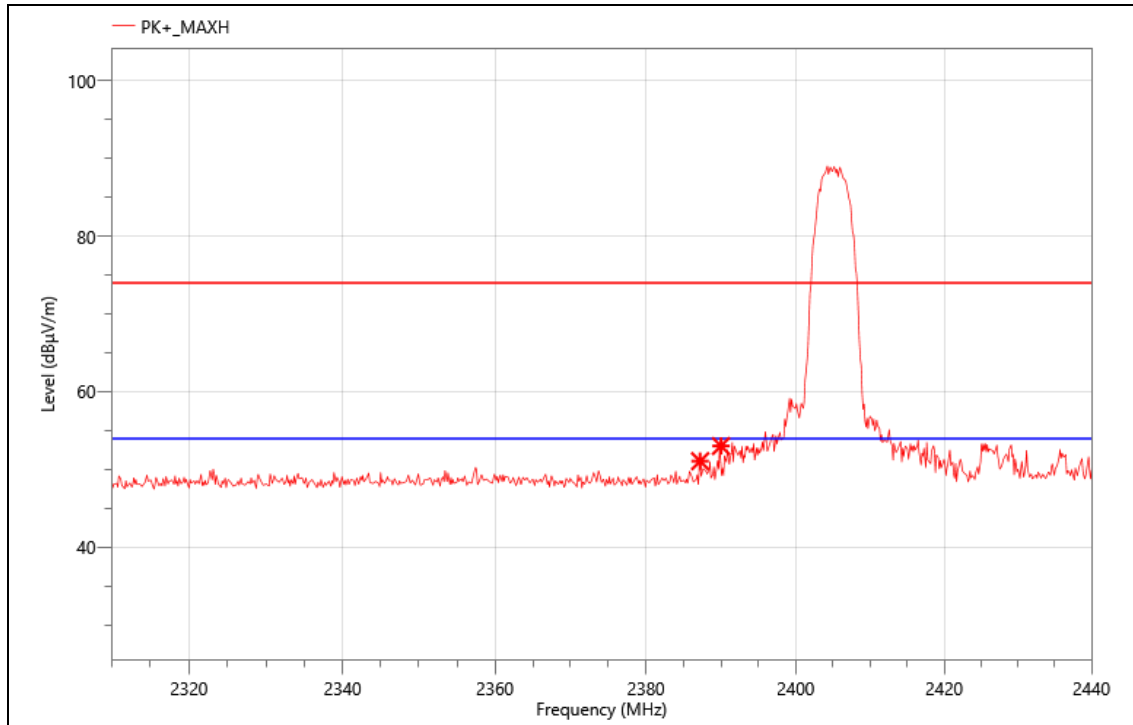
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	31.06	23.15	54.21	74.00	19.79	PK+	H
2	2486.880	29.83	23.14	52.97	74.00	21.03	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	26.06	23.15	49.21	53.90	4.69	AVG	H	PASS

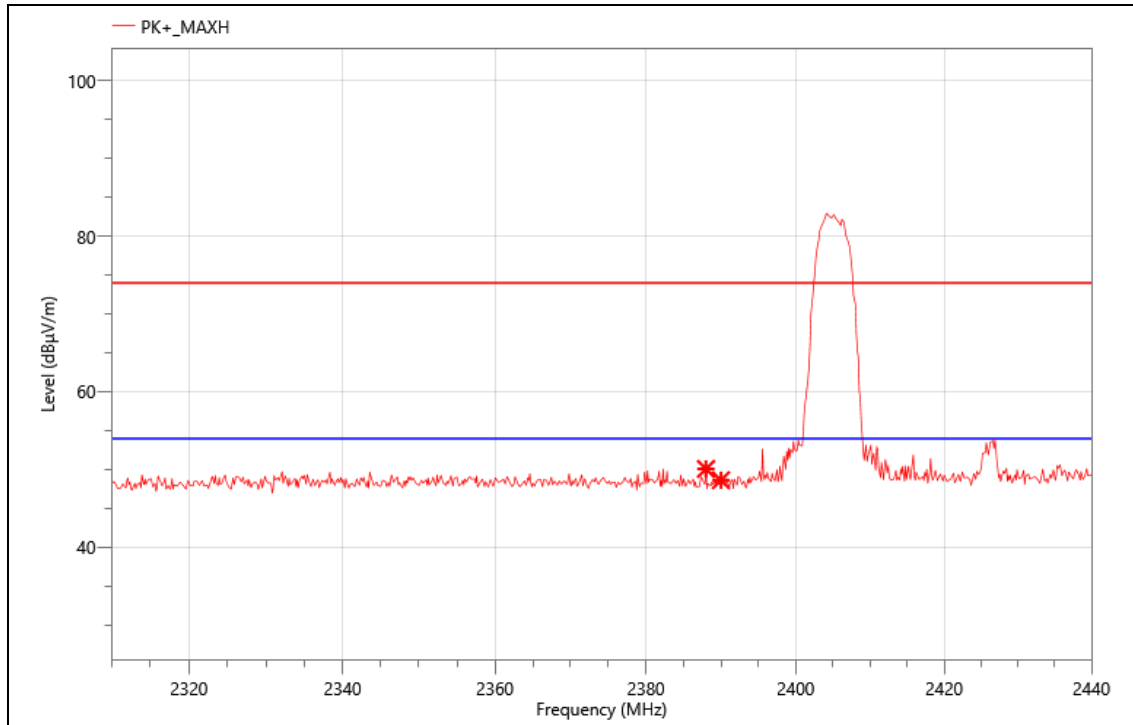
Mode:	8PSK-4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2387.220	28.40	22.67	51.07	74.00	22.93	PK+	H
2	2390.000	30.30	22.72	53.02	74.00	20.98	PK+	H

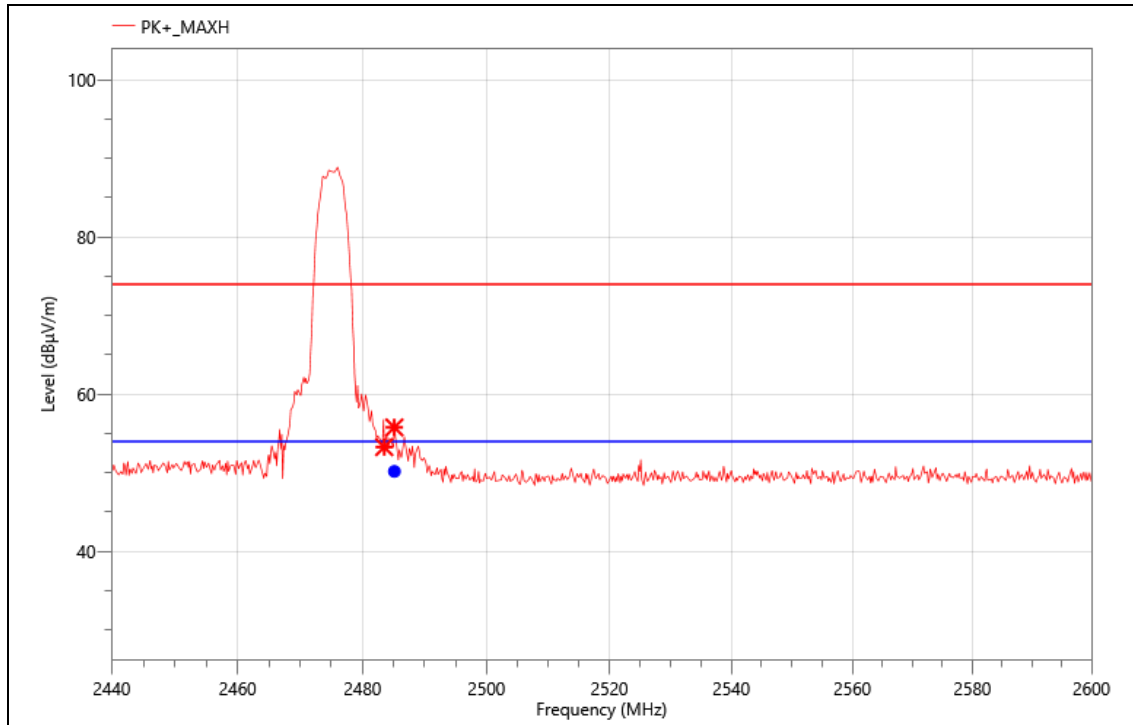
Mode:	8PSK-4M-2405
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Det.	Pol.
1	2388.000	27.39	22.68	50.07	74.00	23.93	PK+	V
2	2390.000	25.90	22.72	48.62	74.00	25.38	PK+	V

Mode:	8PSK-4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



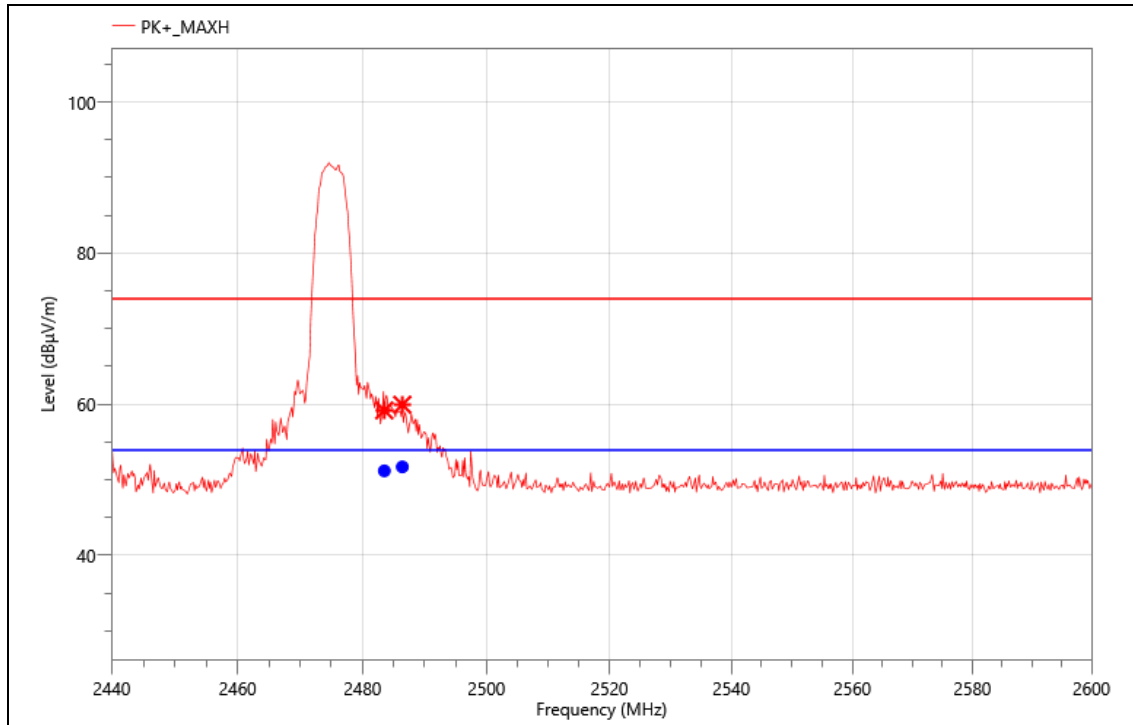
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	30.10	23.15	53.25	74.00	20.75	PK+	V
2	2485.120	32.62	23.14	55.76	74.00	18.24	PK+	V

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2485.120	27.02	23.14	50.16	53.90	3.74	AVG	V	PASS

Mode:	8PSK-4M-2477
Power:	DC 5V
TE:	Berny
Date	2025/3/28
T/A/P	23.9°C/53%/101Kpa



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	2483.500	36.04	23.15	59.19	74.00	14.81	PK+	H
2	2486.400	36.81	23.14	59.95	74.00	14.05	PK+	H

Final_Result

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	28.04	23.15	51.19	53.90	2.71	AVG	H	PASS
2	2486.400	28.58	23.14	51.72	53.90	2.18	AVG	H	PASS

Note:

1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
- For the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC §15.203

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.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

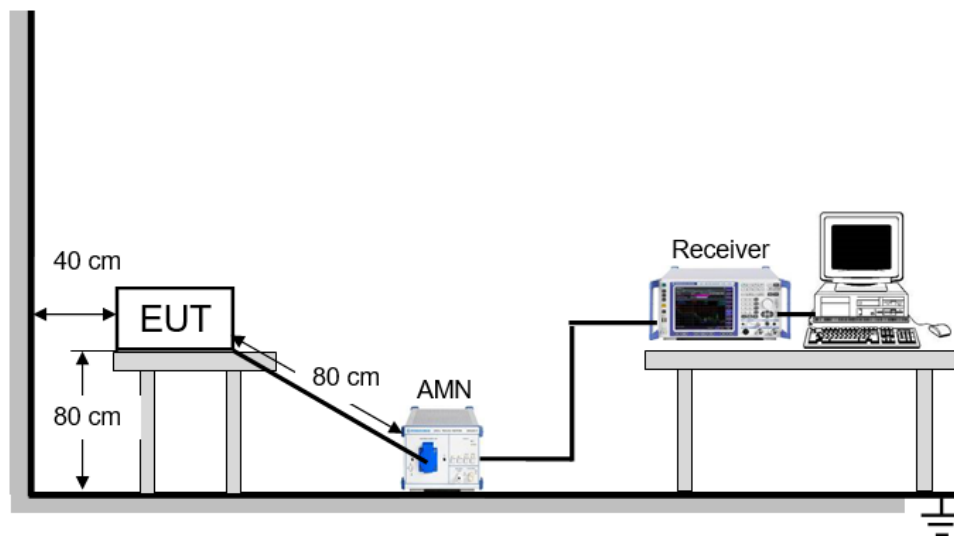
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

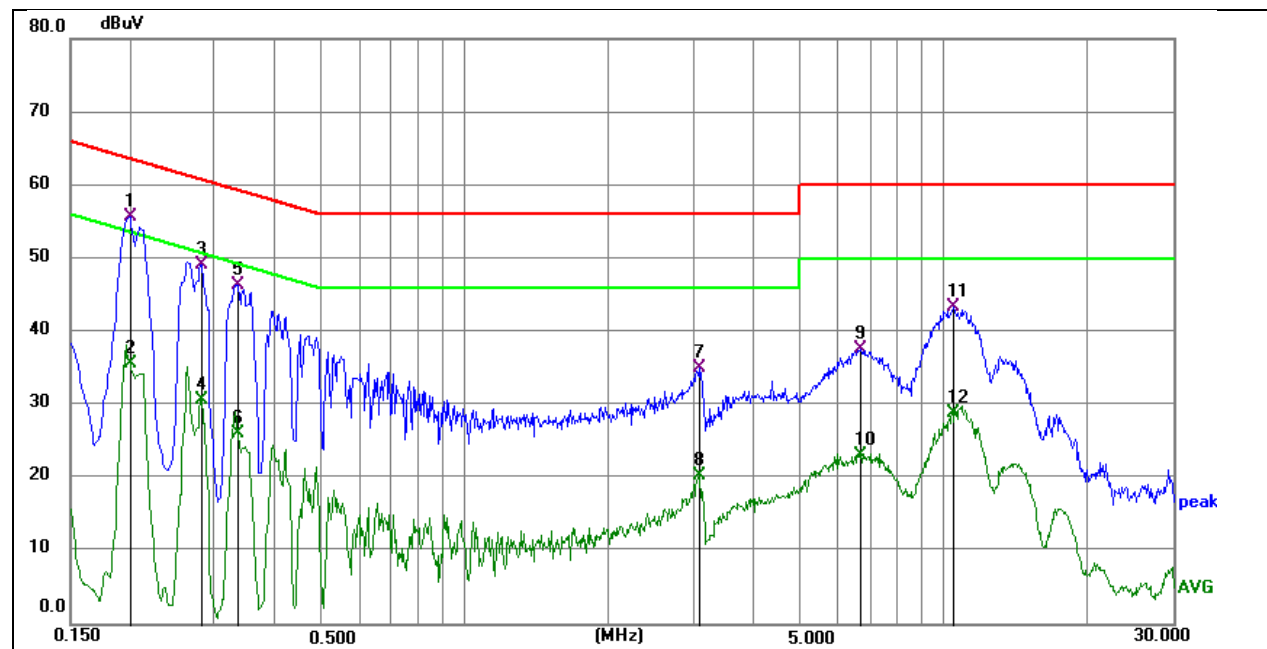
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

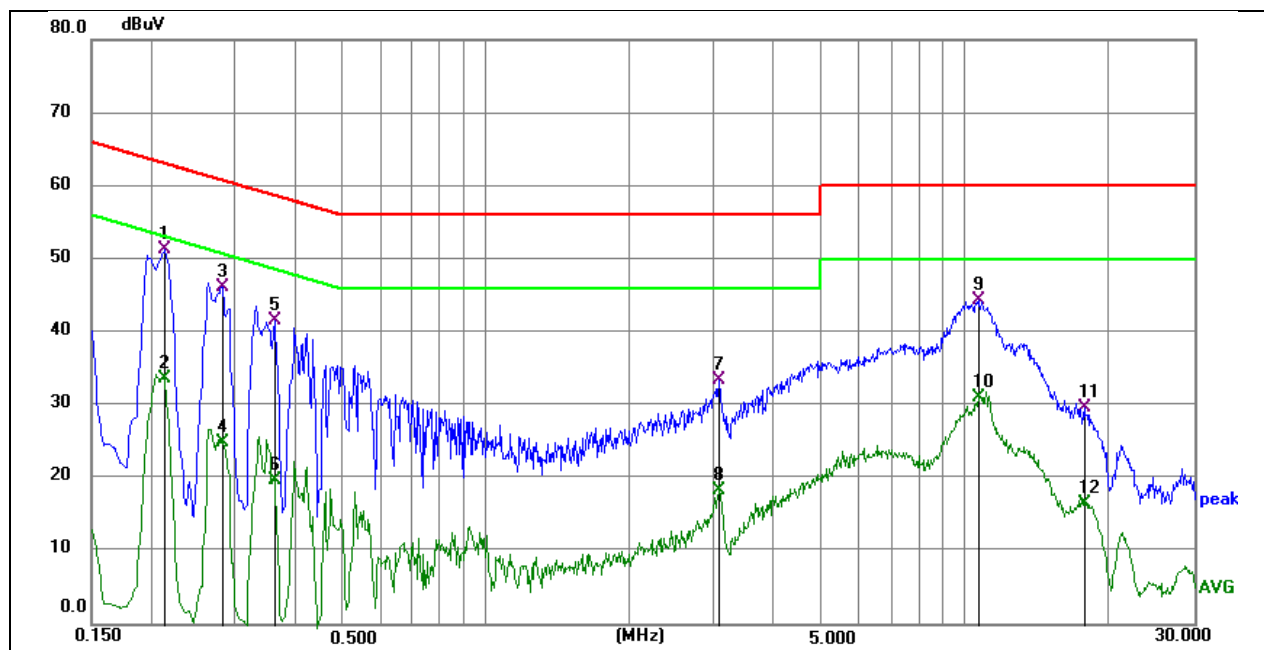
Temperature	25.3°C	Relative Humidity	56%
Atmosphere Pressure	101kPa		

TEST RESULTS

Phase: L1

Mode: GFSK 1M-2402

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1995	45.91	9.78	55.69	63.63	-7.94	QP
2	0.1995	25.79	9.78	35.57	53.63	-18.06	AVG
3	0.2805	39.38	9.78	49.16	60.80	-11.64	QP
4	0.2805	20.98	9.78	30.76	50.80	-20.04	AVG
5	0.3345	36.58	9.78	46.36	59.34	-12.98	QP
6	0.3345	16.27	9.78	26.05	49.34	-23.29	AVG
7	3.0750	25.19	9.84	35.03	56.00	-20.97	QP
8	3.0750	10.59	9.84	20.43	46.00	-25.57	AVG
9	6.7110	27.66	9.94	37.60	60.00	-22.40	QP
10	6.7110	13.16	9.94	23.10	50.00	-26.90	AVG
11	10.4100	33.34	10.09	43.43	60.00	-16.57	QP
12	10.4100	18.87	10.09	28.96	50.00	-21.04	AVG



Phase: N

Mode: GFSK 1M-2402

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.2130	41.56	9.68	51.24	63.09	-11.85	QP
2	0.2130	23.98	9.68	33.66	53.09	-19.43	AVG
3	0.2805	36.48	9.68	46.16	60.80	-14.64	QP
4	0.2805	15.27	9.68	24.95	50.80	-25.85	AVG
5	0.3615	31.96	9.69	41.65	58.69	-17.04	QP
6	0.3615	10.14	9.69	19.83	48.69	-28.86	AVG
7	3.0705	23.61	9.74	33.35	56.00	-22.65	QP
8	3.0705	8.58	9.74	18.32	46.00	-27.68	AVG
9	10.6755	34.28	10.09	44.37	60.00	-15.63	QP
10	10.6755	21.04	10.09	31.13	50.00	-18.87	AVG
11	17.6955	19.46	10.20	29.66	60.00	-30.34	QP
12	17.6955	6.37	10.20	16.57	50.00	-33.43	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA - Appendix C

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	8PSK 1M	2402	Ant1	0.77	6.25	12.32	9.09	1.3	1
NVNT	8PSK 1M	2441	Ant1	0.77	6.25	12.32	9.09	1.3	1
NVNT	8PSK 1M	2480	Ant1	0.77	6.25	12.32	9.09	1.3	1
NVNT	8PSK 2M	2404	Ant1	0.39	6.25	6.24	12.05	2.56	1
NVNT	8PSK 2M	2440	Ant1	0.39	6.25	6.24	12.05	2.56	1
NVNT	8PSK 2M	2478	Ant1	0.39	6.25	6.24	12.05	2.56	1
NVNT	8PSK 4M	2405	Ant1	0.2	6.25	3.2	14.95	5	1
NVNT	8PSK 4M	2441	Ant1	0.2	6.25	3.2	14.95	5	1
NVNT	8PSK 4M	2477	Ant1	0.2	6.25	3.2	14.95	5	1
NVNT	GFSK 1M	2402	Ant1	2.15	6.25	34.4	4.63	0.47	1
NVNT	GFSK 1M	2441	Ant1	2.14	6.25	34.24	4.65	0.47	1
NVNT	GFSK 1M	2480	Ant1	2.14	6.25	34.24	4.65	0.47	1
NVNT	GFSK 2M	2404	Ant1	1.08	6.25	17.28	7.62	0.93	1
NVNT	GFSK 2M	2440	Ant1	1.08	6.25	17.28	7.62	0.93	1
NVNT	GFSK 2M	2478	Ant1	1.08	6.25	17.28	7.62	0.93	1
NVNT	GFSK 4M	2405	Ant1	0.54	6.25	8.64	10.63	1.84	1
NVNT	GFSK 4M	2441	Ant1	0.55	6.25	8.8	10.56	1.83	1
NVNT	GFSK 4M	2477	Ant1	0.54	6.25	8.64	10.63	1.83	1
NVNT	QPSK 1M	2402	Ant1	1.11	6.25	17.76	7.51	0.9	1
NVNT	QPSK 1M	2441	Ant1	1.12	6.25	17.92	7.47	0.9	1
NVNT	QPSK 1M	2480	Ant1	1.11	6.25	17.76	7.51	0.9	1
NVNT	QPSK 2M	2404	Ant1	0.56	6.25	8.96	10.48	1.78	1
NVNT	QPSK 2M	2440	Ant1	0.56	6.25	8.96	10.48	1.78	1
NVNT	QPSK 2M	2478	Ant1	0.56	6.25	8.96	10.48	1.78	1
NVNT	QPSK 4M	2405	Ant1	0.29	6.25	4.64	13.33	3.51	1
NVNT	QPSK 4M	2441	Ant1	0.29	6.25	4.64	13.33	3.48	1
NVNT	QPSK 4M	2477	Ant1	0.28	6.25	4.48	13.49	3.51	1

