

RADIO TEST REPORT

Product : IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module

Model Name : AP6275SDSR

FCC ID : RYK-AP6275SDSR

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : 2026/1/2

Test Date : 2026/01/06 ~ 2026/04/07

Issued Date : 2026/5/20

Applicant : SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



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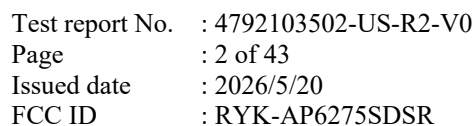
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0



Original Test Report No.: 4792103502-US-R2-V0

Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

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1. Attestation of Test Results

APPLICANT: SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

MANUFACTURER: SparkLAN Communications, Inc.
5F, No. 199, Ruihu St., Neihu Dist., Taipei City 114067, Taiwan

EUT DESCRIPTION: IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module

BRAND: SparkLAN, Ampak

MODEL: AP6275SDSR

SAMPLE STAGE: Engineering Verification Test Sample

DATE of TESTED: 2026/01/06 ~ 2026/04/07

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart C (Section 15.247)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:



Sally Lu
Project Handler

Date : 2026/5/20

Approved and Authorized By:



Kent Liu
Senior Laboratory Engineer

Date : 2026/5/20

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.247(a)(1) (iii)	Number of Hopping Frequency Used	Note 1
15.247(a)(1) (iii)	Dwell Time on Each Channel	Note 1
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Note 1
15.247(b)	Conducted Output Power	PASS
15.247(d)	Antenna Port Emission	Note 1
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS
15.207	AC Power Conducted Emission	Note 1
15.203	Antenna Requirement	PASS

Note:

1. This report is as a supplementary report of report no.: 4790471812-US-R3-V0. The test result refer to the original report.

3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB558074 D01 Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2020+Cor.1-2023.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, Simple acceptance (Section 3.1.4 of IEC Guide 115) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Determining compliance based on the results of the compliance measurement, not considering measurement instrumentation uncertainty.

Measurement	Frequency	Uncertainty
Conducted disturbance at mains terminals ports	150kHz ~ 30MHz	3.0 dB
RF Conducted	9 kHz - 40GHz	2.4 dB
Radiated disturbance below 30MHz	9 kHz - 30 MHz	1.9 dB
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	5.6 dB
Radiated disturbance above 1 GHz	1GHz ~ 40GHz	4.6 dB

The EUT support table is constructed of high-density Expandable Polystyrene (EPS) with dimensions of 1 m × 1.5 m.

The Measurement Uncertainty (MU) report is prepared in accordance with CISPR 16-4-2:2011-06; the potential impact of the setup table material has been evaluated and included as a component of the overall uncertainty value.

6. Equipment under Test

6.1. Description of EUT

Product	IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module
Brand Name	SparkLAN, Ampak
Model Name	AP6275SDSR
Normal Voltage	3.3Vdc from Host

Operating Frequency	2402MHz ~ 2480MHz
Modulation	GFSK, $\pi/4$ -DQPSK and 8DPSK
Transfer Rate	Up to 3 Mbps
Maximum Output Power	12.27 dBm
Sample ID	Conducted Test:5258006
	Radiated Test:5258006

Note:

- This report is as a supplementary report of report no.: 4790471812-US-R3-V0. The differences were as below:
 - Add new PIFA antennas.
- According to above conditions, therefore only the radiated spurious emission worse case and conducted output power need to be performed, others result please refer to the original report.
- The model has two brand names as follows:

Brand	Product name	Model
SparkLAN	IEEE 802.11ax/ac/a/b/g/n 2x2 WiFi with Bluetooth5.3 M.2 LGA Type 1216 Module	AP6275SDSR
Ampak		

- The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual, the laboratory shall not be held responsible.

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6.2. Channel List

79 channels are provided for BT-BR/EDR mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (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	-	-

6.3. Test Condition

Test Item	Test Site No.	Environmental	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	24°C/ 60%RH	3.3Vdc	2026/01/13~ 2026/04/07	Scott Chang/ Jubo Shen
Radiated Spurious Emission	966-2	22~26°C/ 62~68%RH	3.3Vdc	2026/01/06~ 2026/04/07	Scott Chang/ Jubo Shen

Sample Calculation:

Antenna Port Conducted Measurement:

- Where relevant, the follow sample calculation is provided:
Result Value (dBm) = Reading Value (dBm) + Attenuator Factor (dB) + Cable Loss (dB).
Example: Result Value (10dBm) = Reading Value (-2dBm) + Attenuator Factor (10dB) + Cable Loss(2dB).
*Test plot only shown the “Result Value”.

Radiated Spurious Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
Example: Result Value (34.5dBuV/m) = Reading Value (40.1dBuV) + Antenna Factor (18.7dB/m) + Cable Loss (4.2dB) - Preamp Factor (28.5dB).

AC power Line Conducted Emission:

- Where relevant, the follow sample calculation is provided:
Result Value (dBuV) = Reading Value (dBuV) + Correction Factor (dB).
Correction Factor (dB) = Insertion loss(dB) + Cable loss(dB).
Example: Result Value (53.7dBuV) = Reading Value (35.1dBuV) + Insertion loss(18.1dB) + Cable loss(0.5dB).

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6.4. Description of Available Antennas

Original							
Ant. No.	Transmitter Circuit	Frequency Range (MHz)	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
1	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-103AG	2.4G: 2.02 5G: 2.03	Dipole	RP-SMA
2	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-301N	2.4G: 4.4 5G: 5.8	Dipole	RP-SMA
3	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-302N	2.4G: 3.14 5G: 2.87	Dipole	RP-SMA
4	Chain0+1	2400~2500 5150~5850	SparkLAN	AD-303N	2.4G: 3.14 5G: 3.45	Dipole	RP-SMA
5	Chain0+1	2400~2500 5150~5825	SparkLAN	AD-305N	2.4G: 5 5G: 5.53	Dipole	RP-SMA
6	Chain0+1	2400~2500 5150~5825	SparkLAN	AD-308N	2.4G: 3 5G: 5	Dipole	I-PEX
7	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-309N	2.4G: 1.68 5G: 4.72	Dipole	I-PEX
8	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-310N	2.4G: 2.65 5G: 4.86	Dipole	I-PEX
9	Chain0+1	2400~2500 5150~5875	SparkLAN	AD-311N	2.4G: 2.67 5G: 4.91	Dipole	I-PEX
10	Chain0+1	2400~2500 5150~5875	GRAND-TEK Technology	103DG00000140	2.4G: 4.8 5G: 5	Dipole	I-PEX
11	Chain0+1	2400~2500 5150~5875	GRAND-TEK Technology	103DG00000150	2.4G: 2.5 5G: 5.3	Dipole	I-PEX
Newly							
Ant. No.	Transmitter Circuit	Frequency Range (MHz)	Brand Name	Model Name	Maximum Gain (dBi)	Ant. Type	Connector Type
12	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-JP818P1-4C036	2.4G: 2.91 5G: 4.43	PIFA	i-pex(MHF)
13	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP010-4B-70	2.4G: -2.44 5G: 5.23	PIFA	i-pex(MHF)
14	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-27-KP208-4B-115	2.4G: 2.98 5G: 4.89	PIFA	i-pex(MHF)
15	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-27-KP209-74G-315	2.4G: 2.28 5G: 3.64	PIFA	i-pex(MHF)
16	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP290-4B-70	2.4G: 3.13 5G: 4.71	PIFA	i-pex(MHF)
17	Chain0+1	2400~2500 5150~5895	Aristotle	RFA-25-KP291-4G-70	2.4G: -1.48 5G: -0.99	PIFA	i-pex(MHF)
18	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-303PF	2.4G: 2.91 5G: 4.43	PIFA	i-pex(MHF)
19	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-304PF	2.4G: -2.44 5G: 5.23	PIFA	i-pex(MHF)
20	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-305PF	2.4G: 2.98 5G: 4.89	PIFA	i-pex(MHF)

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21	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-306PF	2.4G: 2.28 5G: 3.64	PIFA	i-pex(MHF)
22	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-307PF	2.4G: 3.13 5G: 4.71	PIFA	i-pex(MHF)
23	Chain0+1	2400~2500 5150~5895	SparkLAN	AD-308PF	2.4G: -1.48 5G: -0.99	PIFA	i-pex(MHF)

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual, the laboratory shall not be held responsible.

6.5. Test Mode Applicability and Tested Channel Detail

Test Item	Modulation Type	Available Channel	Test Channel	Packet Type
Conducted Output Power and Radiated Bandedge	GFSK	0 to 78	0,39,78	DH5
	8DPSK	0 to 78	0,39,78	3DH5
Radiated Emissions (Above 1GHz)	GFSK	0 to 78	0,39,78	DH5
	8DPSK	0 to 78	0,39,78	3DH5
Radiated Emissions (Below 1GHz)	GFSK	0 to 78	0	3DH5

- For the EUT, the PIFA antenna was assessed across three orthogonal axes: X-Y, Y-Z, and X-Z. The Y-Z plane was identified as the worst-case orientation. Therefore, all final radiated emission tests were performed with the PIFA antenna positioned in the Y-Z plane.
- Among the New available antennas No.12-23, No.13/19 exhibited the 5G Band highest gain and No.16/22 exhibited the 2.4G Band highest gain. After evaluation, Antenna No.13 (For 5G) and Antenna No.16 (For 2.4G) was identified as the worst-case configuration and was selected for final testing.
- Antenna No. 16 has the highest in-band gain and was used for all tests. Antenna No. 13 has the highest out-of-band gain and was add perform the radiated emissions testing above 1 GHz.
- In the transmit mode, GFSK 3DH5 channel 0 has the highest RF output power. Therefore, all final tests for the spurious emission (below 1GHz) were performed using this worst-case mode.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070818	2025/3/12 2026/2/9	2026/3/11 2027/2/8
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2025/12/9	2026/12/8
Loop Antenna	ETS lindgren	6502	00213440	2025/11/14	2026/11/13
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT-N0538	2025/12/23	2026/12/22
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2025/11/18	2026/11/17
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2025/12/2	2026/12/1
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2025/5/12	2026/5/11
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2025/12/26	2026/12/25
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2025/4/7 2026/3/24	2026/4/6 2027/3/23
Cables (9k-18 GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2025/11/21	2026/11/20
Cables (18-40GHz)	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2025/11/21	2026/11/20
Antenna Port Conducted Measurement					
Signal Analyzer	Rohde & Schwarz	FSVA3044	101281	2025/3/5 2026/2/2	2026/3/4 2027/2/1
Signal Analyzer	Rohde & Schwarz	FSV40	101490	2025/6/17	2026/6/16
Attenuator	EMCI	EMC-40ATK2W10	17002	2025/10/28	2026/10/27
USB Power Sensor	Anritsu	MA24408A	12031	2025/6/24	2026/6/23
Temperature & Humidity Test Chamber	GIANT FORCE	GTH-150- 40-CP-AR	MAA1701-010	2025/2/25 2026/2/2	2026/2/24 2027/2/1

UL Software		
Description	Name	Version
Radiated measurement	e3	6.191211 (V6)
AC power Line Conducted Emission	EZ_EMG	UL-3A1.2

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8. Description of Test Setup

Tx Mode

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	PC	GIGABYTE	GA-H81M-DS2	N/A	Supplied by Client
B	Fixture	AMPAK	UART_V07	N/A	Supplied by Client
C	EVB Board	AMPAK	EVB	N/A	Supplied by Client

I/O Cables

ID	Equipment	Brand Name	Model Name	Length (m)	Remark
1	SDIO extension cable	AMPAK	UART	0.8	Supplied by Client
2	USB Cable	AMPAK	USB	1.8	Supplied by Client
3	USB Cable	AMPAK	USB	1.8	Supplied by Client

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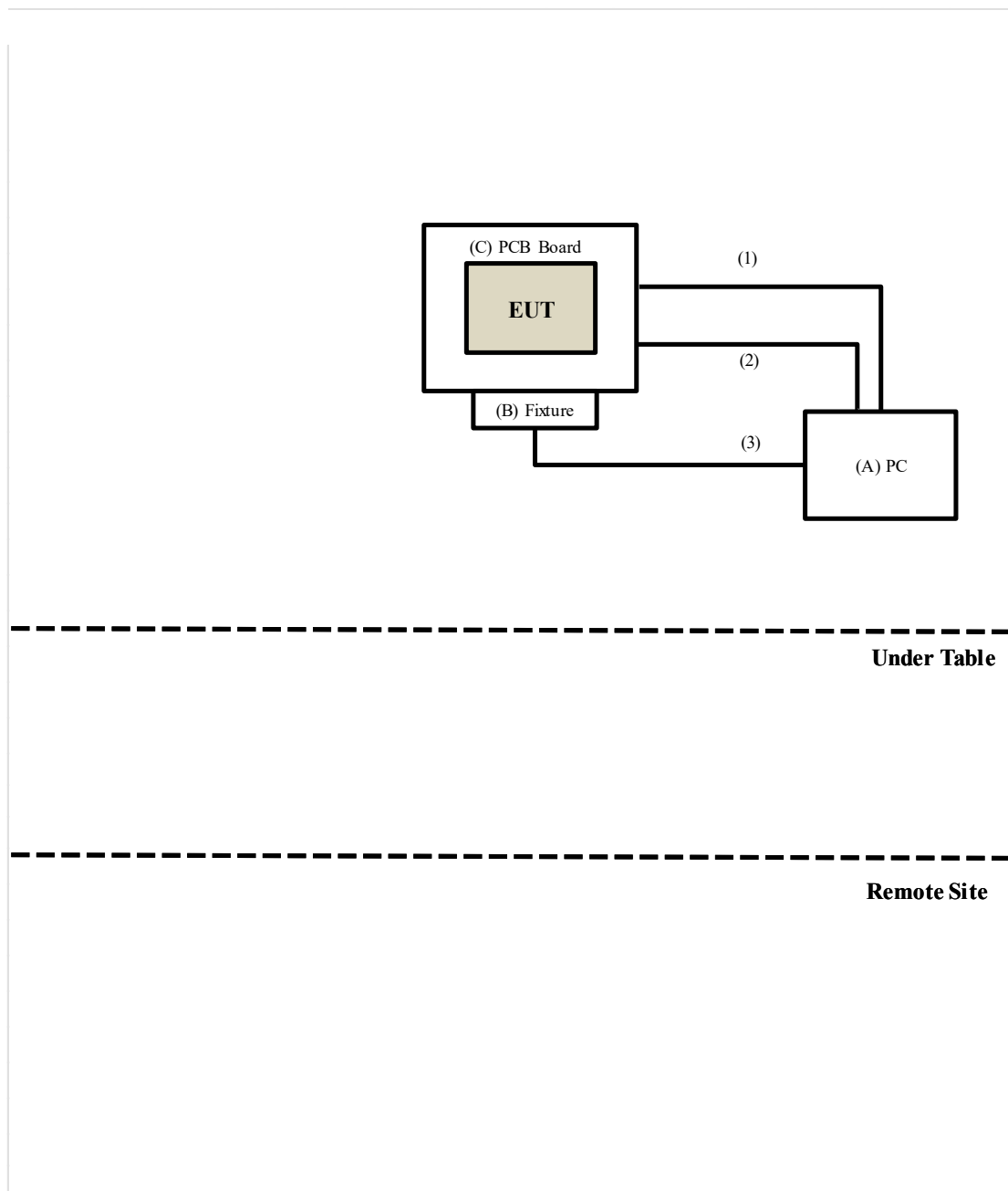
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Test Setup

Controlled using a bespoke application (BlueTool_Version 1.9.7.4) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test

Tx Mode



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9. Test Results

9.1. Conducted Output Power

Requirements

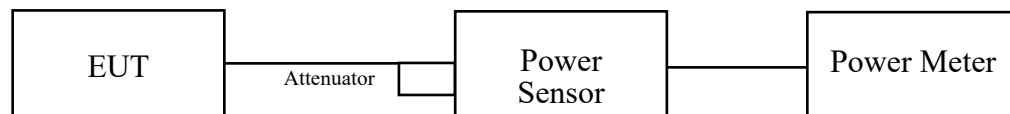
The Maximum Output Power Measurement is 125mW.

Test Procedure

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 for Peak Power.

A AVG power sensor was used on the output port of the EUT. A power meter was used to read the response of the AVG power sensor, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Record the power level for AVG Power (Reference only).

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

Test Data

Mode	CH	Freq. (MHz)	Peak Power (dBm)	Total Power (mW)	Total Power (dBm)	AVG Power (dBm)	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Result
			Chain 0			Chain 0				
BT-GFSK	0	2402	10.75	11.885	10.75	10.46	11.117	10.46	20.97	Pass
	39	2441	9.68	9.29	9.68	9.26	8.433	9.26	20.97	Pass
	78	2480	6.71	4.688	6.71	6.31	4.276	6.31	20.97	Pass
BT-8DPSK	0	2402	12.27	16.866	12.27	9.63	9.183	9.63	20.97	Pass
	39	2441	10.47	11.143	10.47	7.47	5.585	7.47	20.97	Pass
	78	2480	8.42	6.95	8.42	5.41	3.475	5.41	20.97	Pass

Note: Average Power is for reference Only.

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9.2. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Test Procedures

[For 9 kHz ~ 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, perpendicular, and ground-parallel 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. For measurement below 30MHz, 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 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.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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. For measurement below 1GHz, 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 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.
- f. The test-receiver system was set to peak and average detects 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.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. 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 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
Bluetooth	1MHz	Duty cycle refer to original report.

- d. All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- e. Test data of Result value (dBuV/m) = Reading value (dBuV) + Correction Factor (dB/m).
- f. Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- g. Test data of Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Factor (dB).
- h. Test data of Notation "@" = Fundamental Frequency
- i. Test data of Notation "*" = The peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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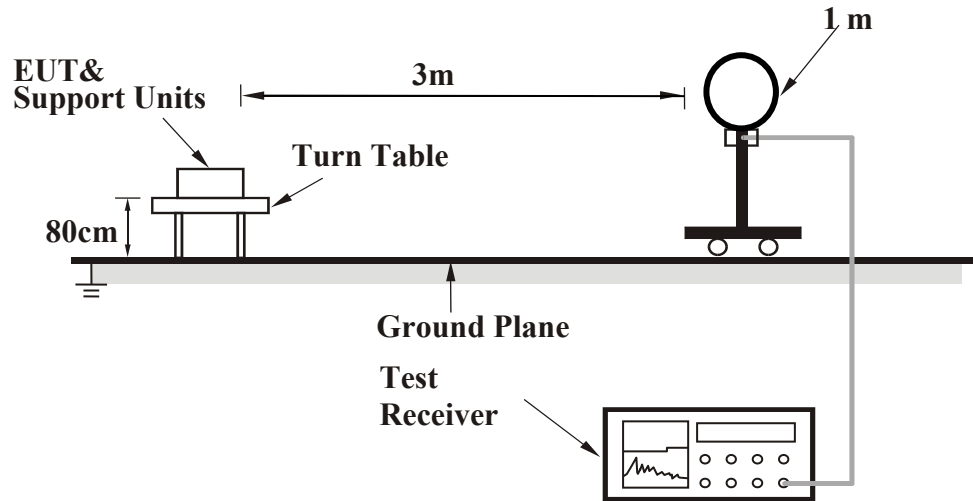
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Facsimile (FAX) :+886-3-583-7948

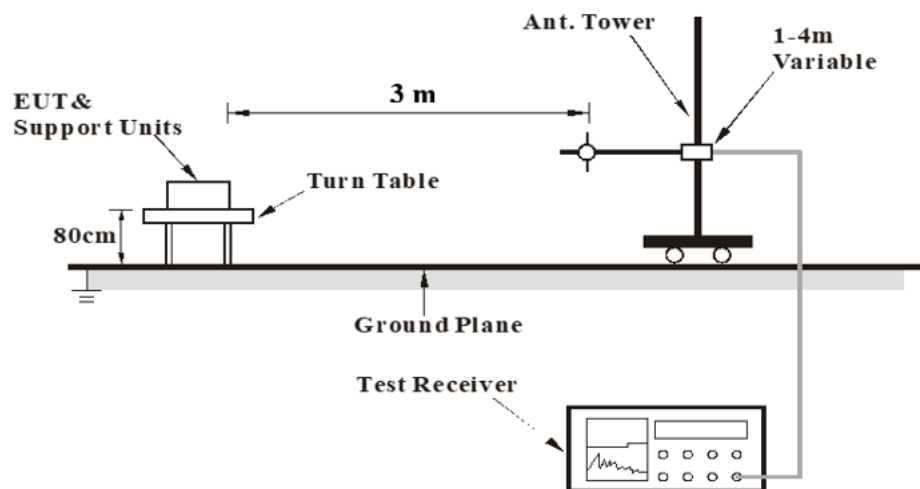
Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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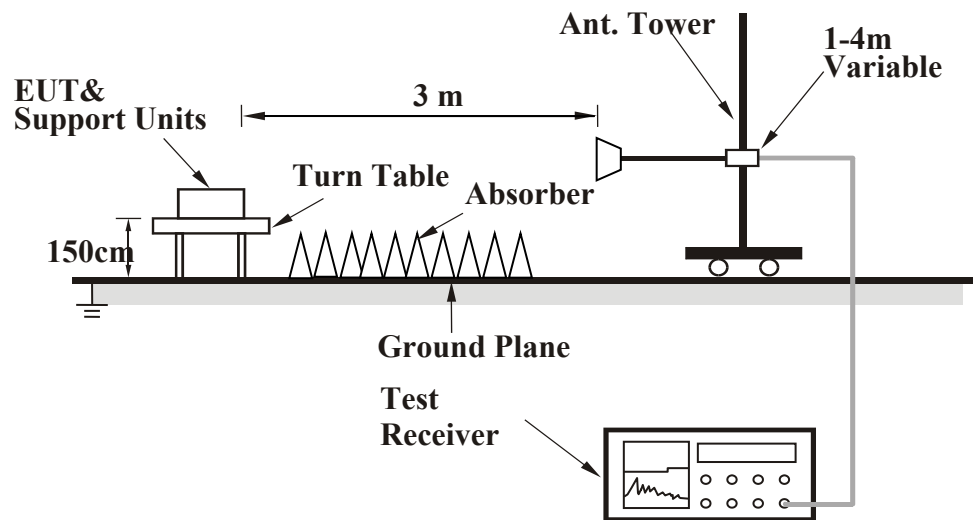
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

Test Data

Antenna No.16 (RFA-25-KP290-4B-70)

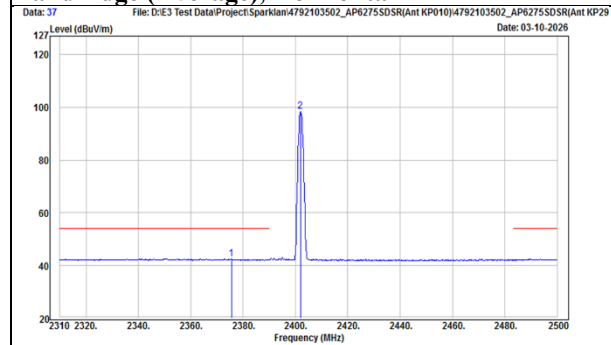
Above 1 GHz

Mode	GFSK	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2350.66	39.94	13.92	53.86	74	-20.14	PK
		2375.55	28.71	13.86	42.57	54	-11.43	AVG
	@	2402	84.71	13.8	98.51	N/A	N/A	PK
	@	2402	84.49	13.8	98.29	N/A	N/A	AVG
Vertical		2328.43	40.88	13.91	54.79	74	-19.21	PK
		2389.99	28.89	13.83	42.72	54	-11.28	AVG
	@	2402	94.94	13.8	108.74	N/A	N/A	PK
	@	2402	94.77	13.8	108.57	N/A	N/A	AVG

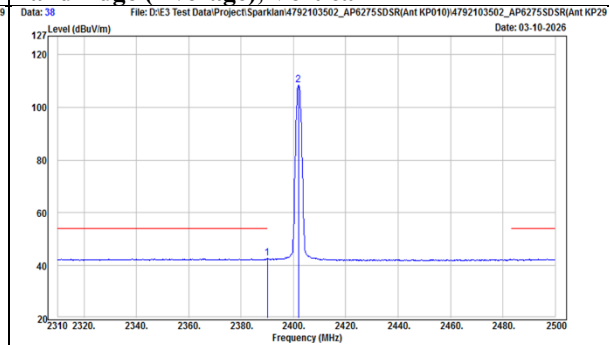
TX, GFSK (Ch 0)

Band Edge (Average), Horizontal



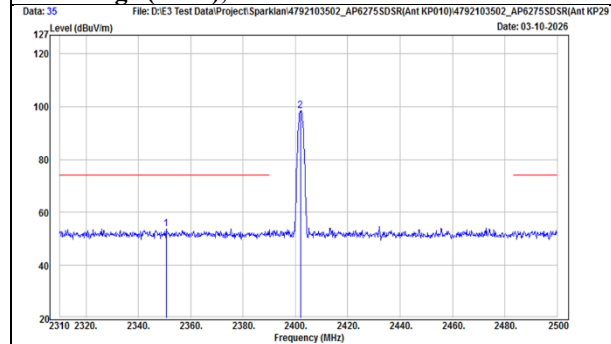
TX, GFSK (Ch 0)

Band Edge (Average), Vertical



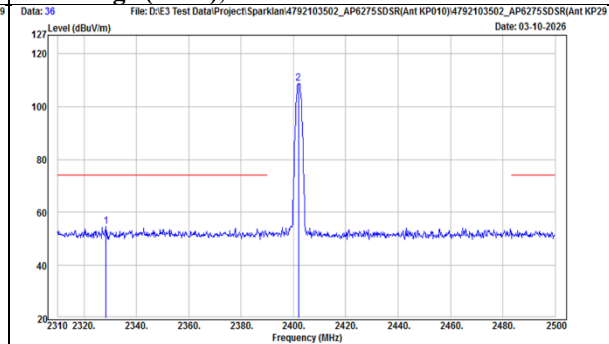
TX, GFSK (Ch 0)

Band Edge (Peak), Horizontal



TX, GFSK (Ch 0)

Band Edge (Peak), Vertical



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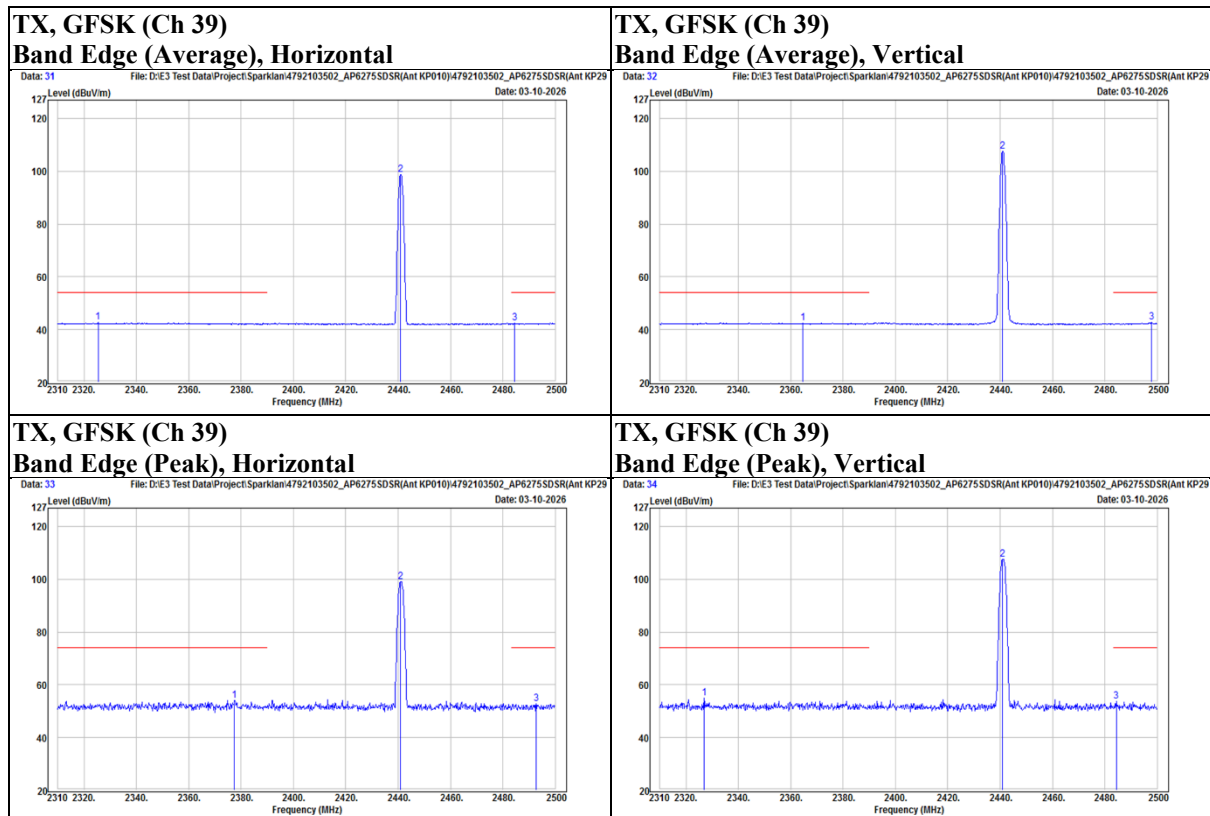
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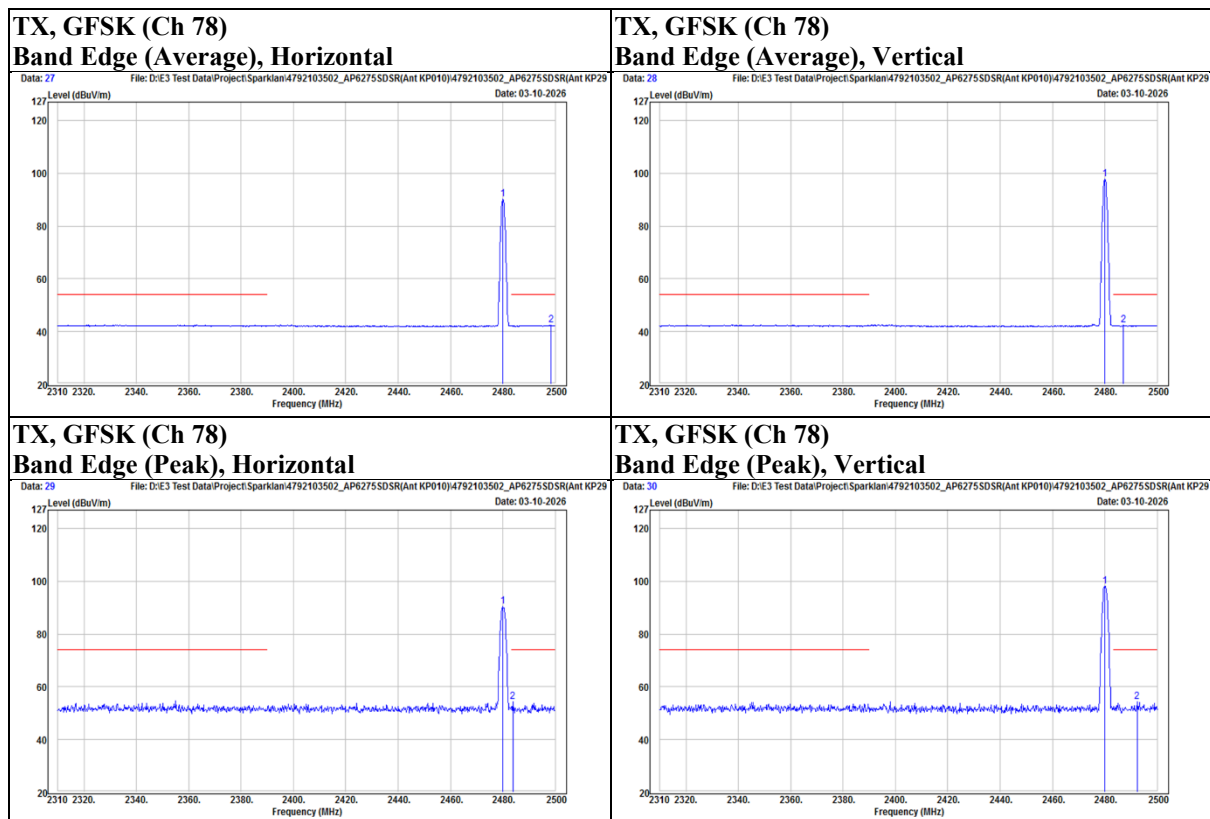
Mode	GFSK	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2325.39	28.73	13.92	42.65	54	-11.35	AVG
		2377.45	40.18	13.86	54.04	74	-19.96	PK
	@	2441	85.29	13.63	98.92	N/A	N/A	PK
	@	2441	85.2	13.63	98.83	N/A	N/A	AVG
		2484.61	28.82	13.65	42.47	54	-11.53	AVG
		2492.78	39.17	13.67	52.84	74	-21.16	PK
Vertical		2326.91	40.95	13.92	54.87	74	-19.13	PK
		2364.72	28.65	13.88	42.53	54	-11.47	AVG
	@	2441	93.99	13.63	107.62	N/A	N/A	PK
	@	2441	93.8	13.63	107.43	N/A	N/A	AVG
		2484.42	40.21	13.65	53.86	74	-20.14	PK
		2497.91	29.1	13.68	42.78	54	-11.22	AVG



Mode	GFSK	Channel	78
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2480	76.82	13.64	90.46	N/A	N/A	PK
	@	2480	76.45	13.64	90.09	N/A	N/A	AVG
		2483.85	40.56	13.65	54.21	74	-19.79	PK
		2498.48	28.8	13.68	42.48	54	-11.52	AVG
Vertical	@	2480	84.47	13.64	98.11	N/A	N/A	PK
	@	2480	84.22	13.64	97.86	N/A	N/A	AVG
		2487.08	28.75	13.66	42.41	54	-11.59	AVG
		2492.4	40.61	13.67	54.28	74	-19.72	PK

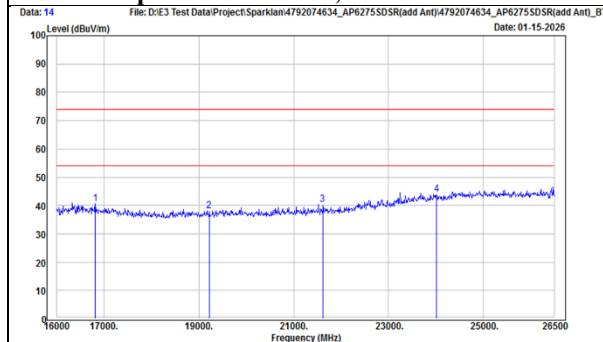


Mode	GFSK - Emission	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4804	45.4	4.22	49.62	74	-24.38	PK
		14485	28.22	27.98	56.2	74	-17.8	PK
		14485	19.65	27.98	47.63	54	-6.37	AVG
		15370	28.74	26.29	55.03	74	-18.97	PK
		15370	19.91	26.29	46.2	54	-7.8	AVG
	*	16814	35.15	5.41	40.56	74	-33.44	PK
	*	19216	34.42	3.58	38	74	-36	PK
	*	21618	34.27	6.16	40.43	74	-33.57	PK
	*	24020	33.29	10.74	44.03	74	-29.97	PK
Vertical	*	4804	45.14	4.22	49.36	74	-24.64	PK
		14485	28.31	27.98	56.29	74	-17.71	PK
		14485	19.74	27.98	47.72	54	-6.28	AVG
		15475	29.36	25.98	55.34	74	-18.66	PK
		15475	20.53	25.98	46.51	54	-7.49	AVG
	*	16814	33.9	5.41	39.31	74	-34.69	PK
	*	19216	34.06	3.58	37.64	74	-36.36	PK
	*	21618	33.01	6.16	39.17	74	-34.83	PK
	*	24020	33.07	10.74	43.81	74	-30.19	PK

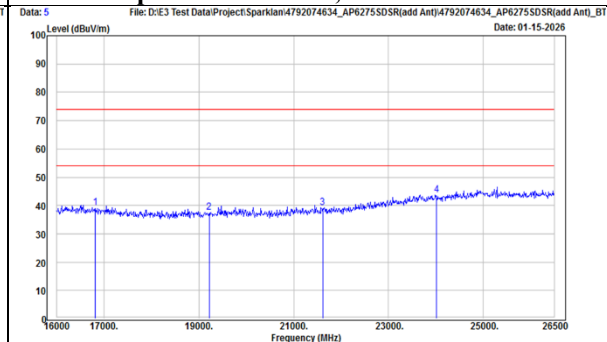
TX, GFSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



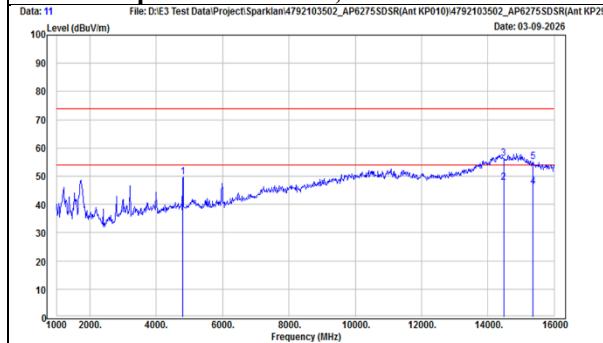
TX, GFSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical



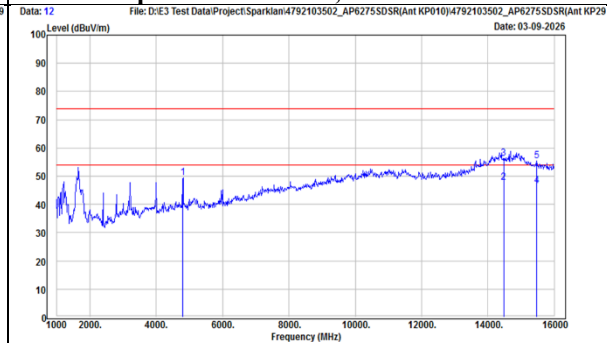
TX, GFSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



TX, GFSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical

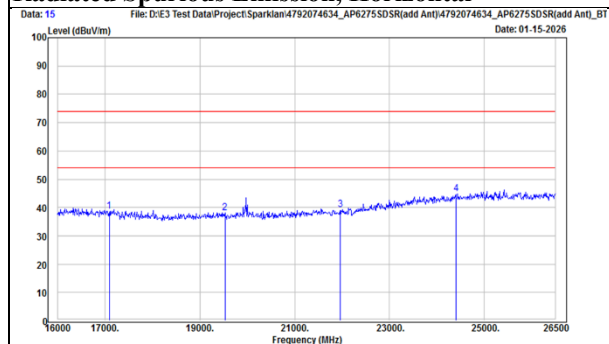


Mode	GFSK - Emission	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4882	39.54	4.48	44.02	74	-29.98	PK
		14500	28.57	28	56.57	74	-17.43	PK
		14500	19.55	28	47.55	54	-6.45	AVG
		15400	28.56	26.14	54.7	74	-19.3	PK
		15400	19.73	26.14	45.87	54	-8.13	AVG
	*	17087	33.34	5.41	38.75	74	-35.25	PK
	*	19528	34.2	3.99	38.19	74	-35.81	PK
	*	21969	32.97	6.25	39.22	74	-34.78	PK
	*	24410	32.89	11.97	44.86	74	-29.14	PK
Vertical	*	4882	41.49	4.48	45.97	74	-28.03	PK
		14500	28.47	28	56.47	74	-17.53	PK
		14500	19.9	28	47.9	54	-6.1	AVG
		15520	30.45	25.84	56.29	74	-17.71	PK
		15520	21.62	25.84	47.46	54	-6.54	AVG
	*	17087	33.96	5.41	39.37	74	-34.63	PK
	*	19528	35.43	3.99	39.42	74	-34.58	PK
	*	21969	32.92	6.25	39.17	74	-34.83	PK
	*	24410	33.61	11.97	45.58	74	-28.42	PK

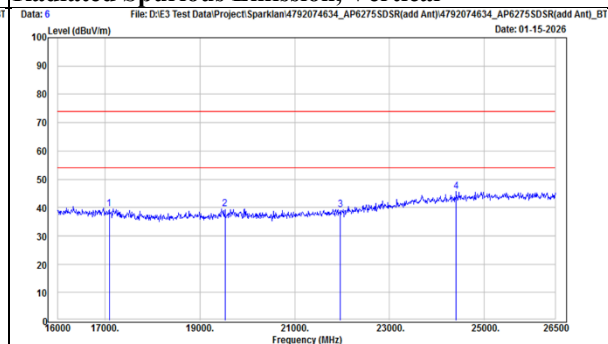
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



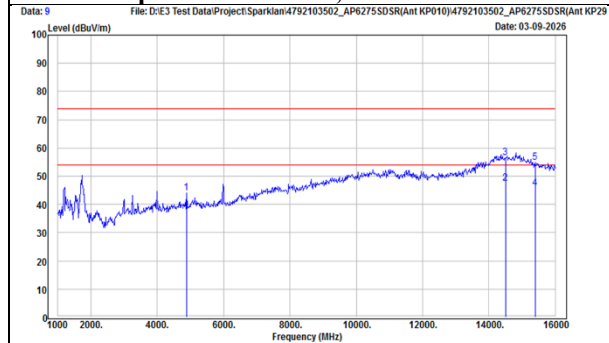
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



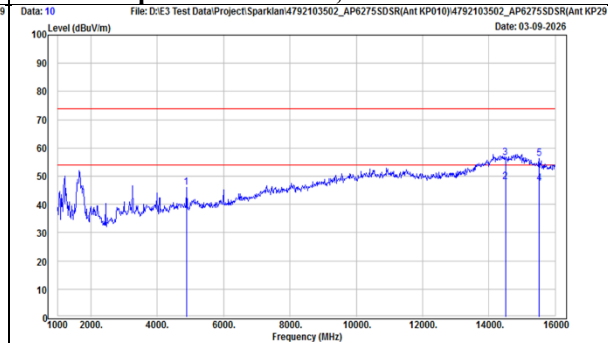
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical

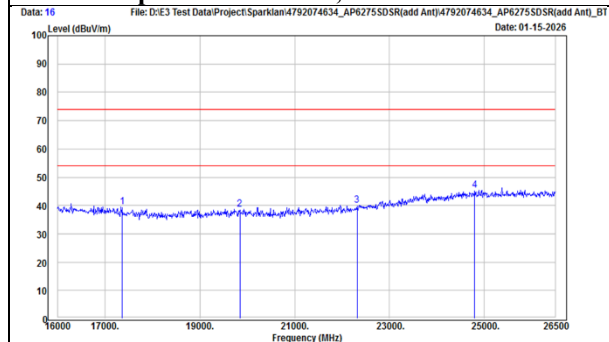


Mode	GFSK - Emission	Channel	78
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4960	36.1	4.59	40.69	74	-33.31	PK
		14500	28.19	28	56.19	74	-17.81	PK
		14500	19.62	28	47.62	54	-6.38	AVG
		15350	29.58	26.39	55.97	74	-18.03	PK
	*	15350	20.75	26.39	47.14	54	-6.86	AVG
		17360	34.74	4.89	39.63	74	-34.37	PK
		19840	34.52	4.06	38.58	74	-35.42	PK
		22320	33.24	6.93	40.17	74	-33.83	PK
		24800	32.85	12.44	45.29	74	-28.71	PK
Vertical	*	4960	35.74	4.59	40.33	74	-33.67	PK
		14500	29.04	28	57.04	74	-16.96	PK
		14500	19.56	28	47.56	54	-6.44	AVG
		15430	28.81	26.08	54.89	74	-19.11	PK
	*	15430	19.98	26.08	46.06	54	-7.94	AVG
		17360	33.34	4.89	38.23	74	-35.77	PK
		19840	34.81	4.06	38.87	74	-35.13	PK
		22320	33.55	6.93	40.48	74	-33.52	PK
		24800	32.89	12.44	45.33	74	-28.67	PK

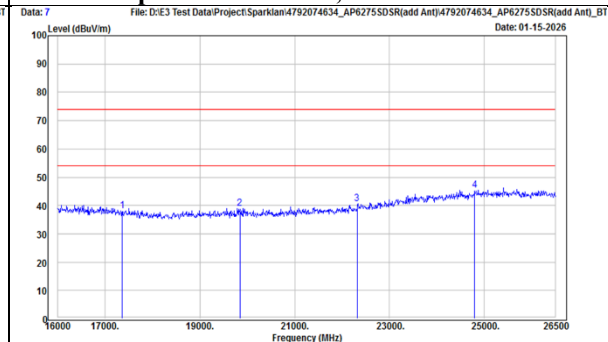
TX, GFSK - Emission (Ch 78)

Radiated Spurious Emission, Horizontal



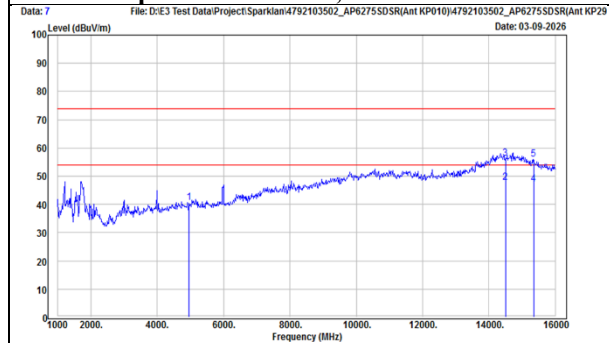
TX, GFSK - Emission (Ch 78)

Radiated Spurious Emission, Vertical



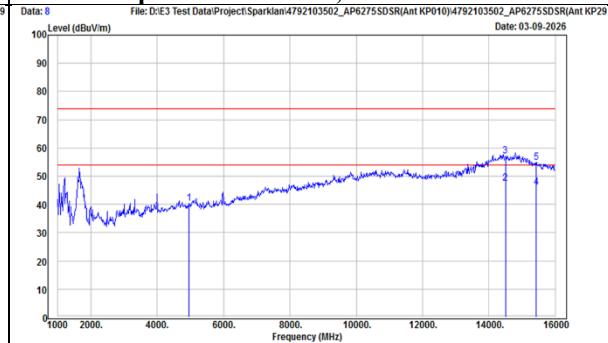
TX, GFSK - Emission (Ch 78)

Radiated Spurious Emission, Horizontal



TX, GFSK - Emission (Ch 78)

Radiated Spurious Emission, Vertical



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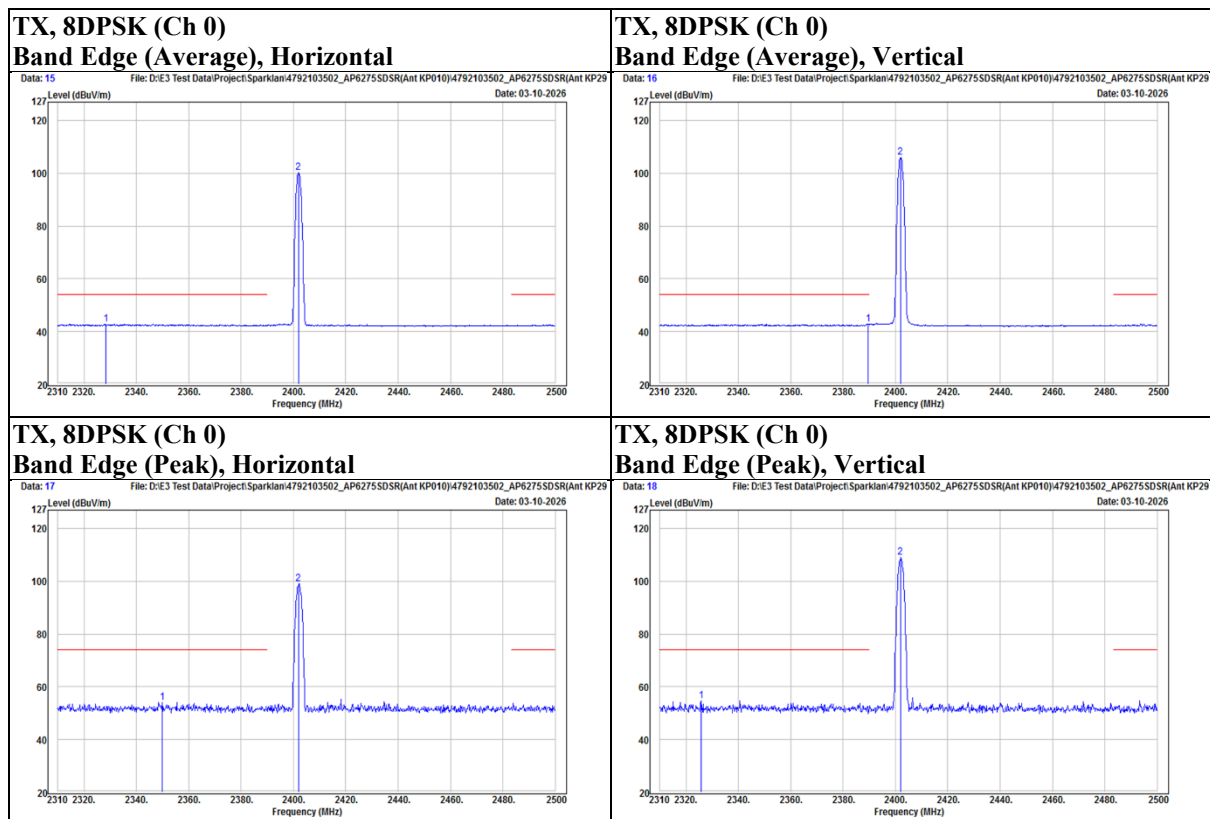
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Mode	8DPSK	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2328.43	28.86	13.91	42.77	54	-11.23	AVG
		2349.9	40.22	13.91	54.13	74	-19.87	PK
	@	2402	85.36	13.8	99.16	N/A	N/A	PK
	@	2402	86.4	13.8	100.2	N/A	N/A	AVG
Vertical		2325.77	40.69	13.92	54.61	74	-19.39	PK
		2389.61	29.11	13.83	42.94	54	-11.06	AVG
	@	2402	95.31	13.8	109.11	N/A	N/A	PK
	@	2402	92.22	13.8	106.02	N/A	N/A	AVG

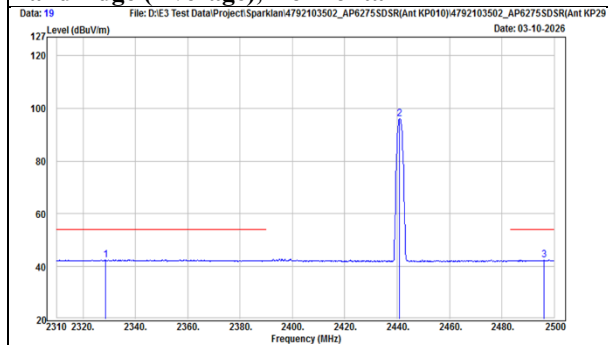


Mode	8DPSK	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		2328.62	28.68	13.91	42.59	54	-11.41	AVG
		2351.8	40.15	13.91	54.06	74	-19.94	PK
	@	2441	85.4	13.63	99.03	N/A	N/A	PK
	@	2441	82.46	13.63	96.09	N/A	N/A	AVG
		2489.17	40.51	13.66	54.17	74	-19.83	PK
		2496.2	28.82	13.67	42.49	54	-11.51	AVG
Vertical		2359.78	40.62	13.89	54.51	74	-19.49	PK
		2389.8	28.79	13.83	42.62	54	-11.38	AVG
	@	2441	94.17	13.63	107.8	N/A	N/A	PK
	@	2441	91.08	13.63	104.71	N/A	N/A	AVG
		2490.5	39.76	13.66	53.42	74	-20.58	PK
		2491.45	29.22	13.66	42.88	54	-11.12	AVG

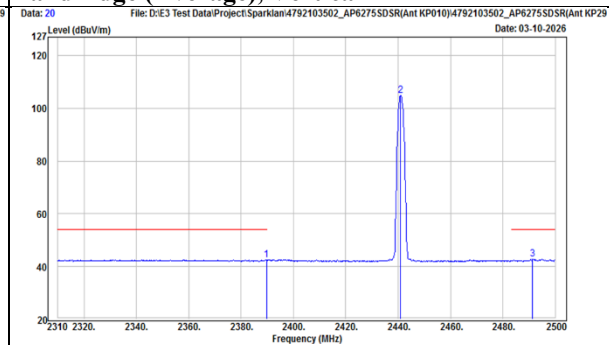
TX, 8DPSK (Ch 39)

Band Edge (Average), Horizontal



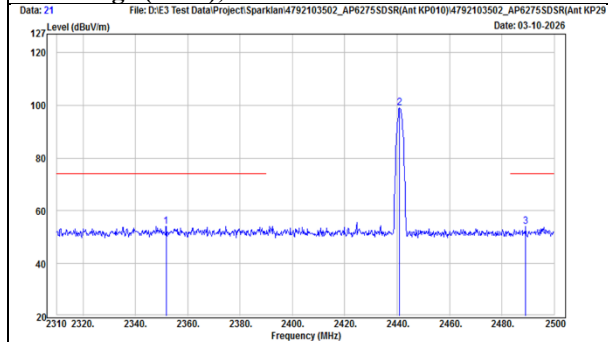
TX, 8DPSK (Ch 39)

Band Edge (Average), Vertical



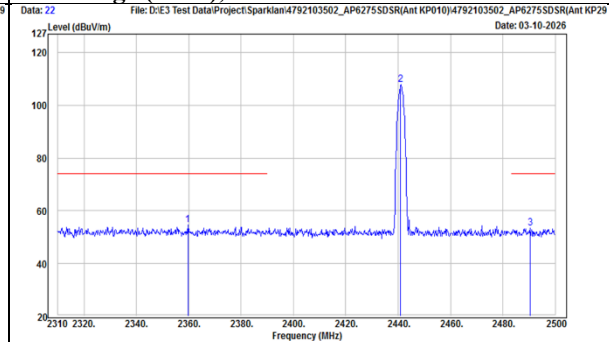
TX, 8DPSK (Ch 39)

Band Edge (Peak), Horizontal



TX, 8DPSK (Ch 39)

Band Edge (Peak), Vertical

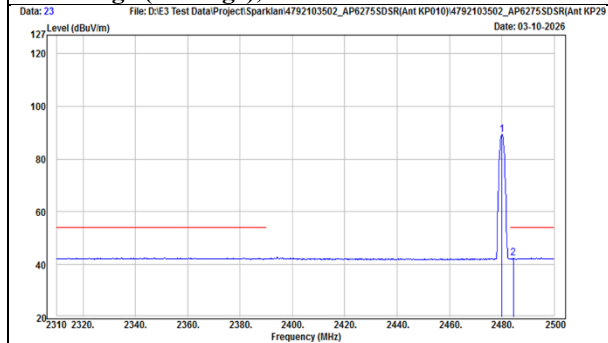


Mode	8DPSK	Channel	78
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	@	2480	78.36	13.64	92	N/A	N/A	PK
	@	2480	75.67	13.64	89.31	N/A	N/A	AVG
		2484.42	28.88	13.65	42.53	54	-11.47	AVG
		2496.39	39.64	13.67	53.31	74	-20.69	PK
Vertical	@	2480	87.33	13.64	100.97	N/A	N/A	PK
	@	2480	83.36	13.64	97	N/A	N/A	AVG
		2492.02	39.33	13.67	53	74	-21	PK
		2494.68	28.78	13.67	42.45	54	-11.55	AVG

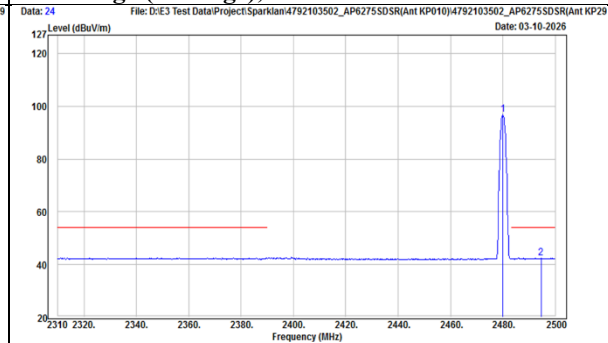
TX, 8DPSK (Ch 78)

Band Edge (Average), Horizontal



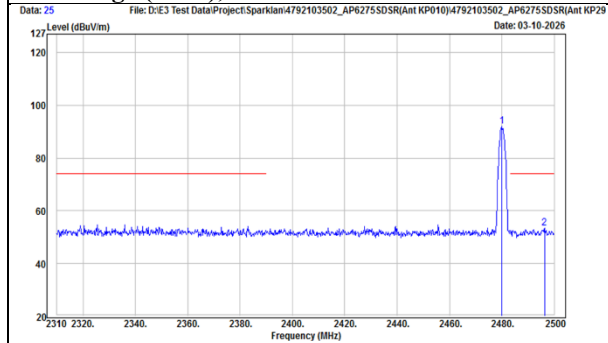
TX, 8DPSK (Ch 78)

Band Edge (Average), Vertical



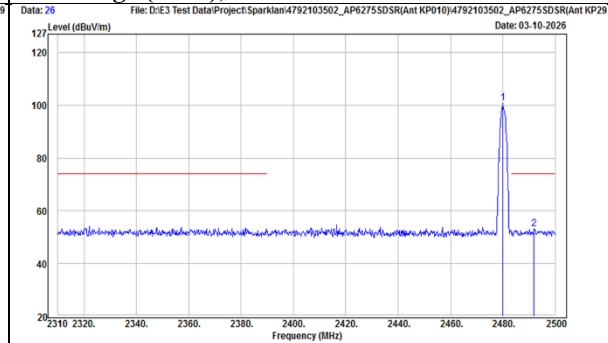
TX, 8DPSK (Ch 78)

Band Edge (Peak), Horizontal



TX, 8DPSK (Ch 78)

Band Edge (Peak), Vertical

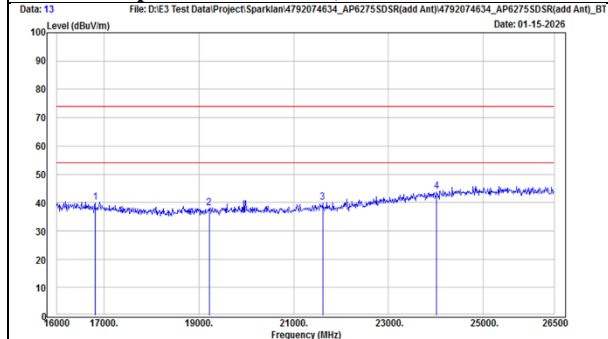


Mode	8DPSK - Emission	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4804	44.63	4.22	48.85	74	-25.15	PK
		14500	28.64	28	56.64	74	-17.36	PK
		14500	19.62	28	47.62	54	-6.38	AVG
		15520	29.77	25.84	55.61	74	-18.39	PK
	*	15520	20.94	25.84	46.78	54	-7.22	AVG
		16814	34.55	5.41	39.96	74	-34.04	PK
		19216	34.47	3.58	38.05	74	-35.95	PK
		21618	33.84	6.16	40	74	-34	PK
		24020	33.29	10.74	44.03	74	-29.97	PK
Vertical	*	4804	48.37	4.22	52.59	74	-21.41	PK
		14485	29.56	27.98	57.54	74	-16.46	PK
		14485	19.61	27.98	47.59	54	-6.41	AVG
		15350	29.78	26.39	56.17	74	-17.83	PK
	*	15350	20.95	26.39	47.34	54	-6.66	AVG
		16814	34.24	5.41	39.65	74	-34.35	PK
		19216	36.5	3.58	40.08	74	-33.92	PK
		21618	32.88	6.16	39.04	74	-34.96	PK
		24020	33.07	10.74	43.81	74	-30.19	PK

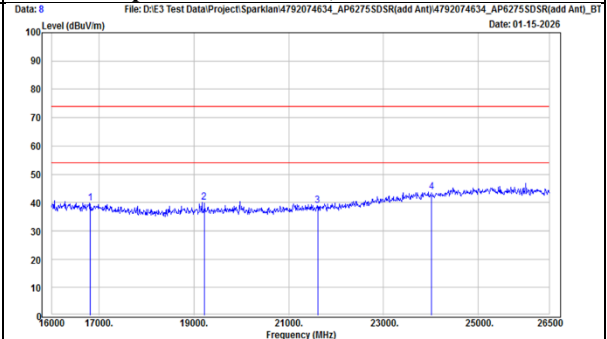
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



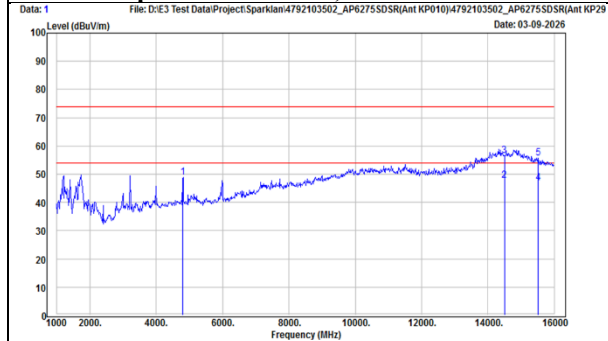
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical



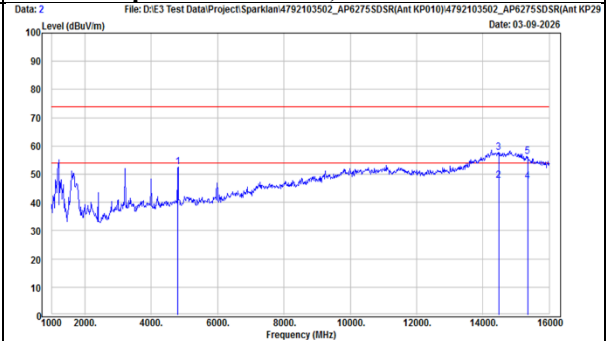
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical

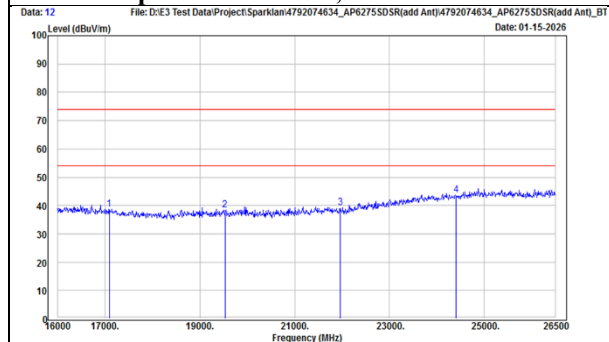


Mode	8DPSK - Emission	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4882	38.76	4.48	43.24	74	-30.76	PK
		14500	28.18	28	56.18	74	-17.82	PK
		14500	19.61	28	47.61	54	-6.39	AVG
		15550	29.18	25.7	54.88	74	-19.12	PK
		15550	20.35	25.7	46.05	54	-7.95	AVG
	*	17087	33.38	5.41	38.79	74	-35.21	PK
	*	19528	34.36	3.99	38.35	74	-35.65	PK
	*	21969	33.02	6.25	39.27	74	-34.73	PK
	*	24410	31.64	11.97	43.61	74	-30.39	PK
Vertical	*	4882	42.24	4.48	46.72	74	-27.28	PK
		14470	29.19	27.97	57.16	74	-16.84	PK
		14470	19.71	27.97	47.68	54	-6.32	AVG
		15430	28.66	26.08	54.74	74	-19.26	PK
		15430	19.83	26.08	45.91	54	-8.09	AVG
	*	17087	33.68	5.41	39.09	74	-34.91	PK
	*	19528	34.5	3.99	38.49	74	-35.51	PK
	*	21969	32.9	6.25	39.15	74	-34.85	PK
	*	24410	33.37	11.97	45.34	74	-28.66	PK

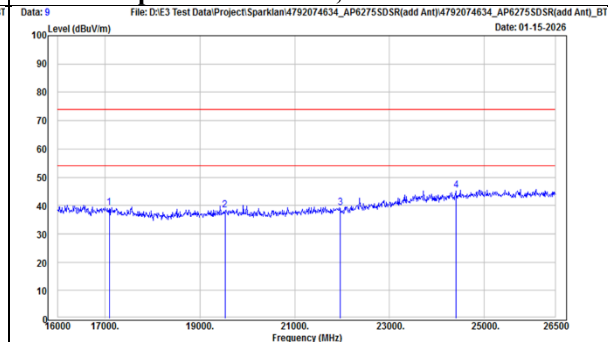
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



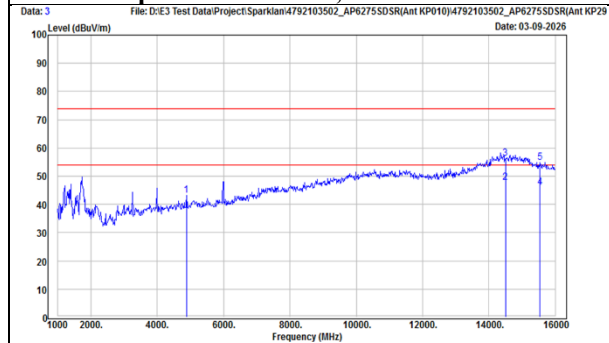
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



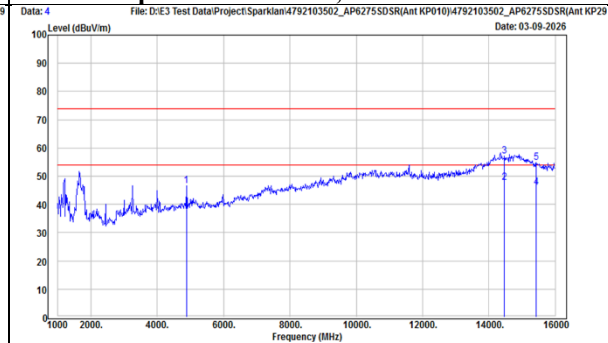
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical

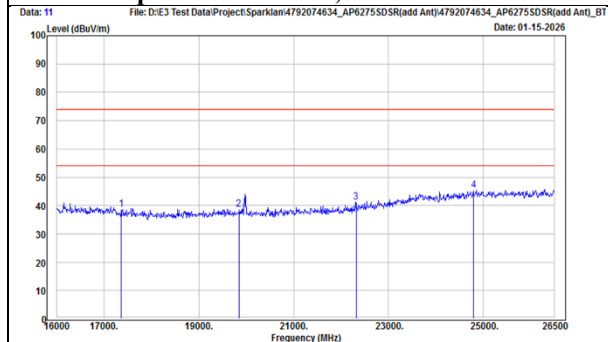


Mode	8DPSK - Emission	Channel	78
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4960	36.11	4.59	40.7	74	-33.3	PK
		14485	28.82	27.98	56.8	74	-17.2	PK
		14485	19.8	27.98	47.78	54	-6.22	AVG
		15355	28.97	26.36	55.33	74	-18.67	PK
		15355	20.14	26.36	46.5	54	-7.5	AVG
	*	17360	33.71	4.89	38.6	74	-35.4	PK
	*	19840	34.49	4.06	38.55	74	-35.45	PK
	*	22320	34.31	6.93	41.24	74	-32.76	PK
	*	24800	33.05	12.44	45.49	74	-28.51	PK
Vertical	*	4960	36.43	4.59	41.02	74	-32.98	PK
		14500	28.75	28	56.75	74	-17.25	PK
		14500	19.73	28	47.73	54	-6.27	AVG
		15565	29.44	25.63	55.07	74	-18.93	PK
		15565	20.61	25.63	46.24	54	-7.76	AVG
	*	17360	32.9	4.89	37.79	74	-36.21	PK
	*	19840	34.23	4.06	38.29	74	-35.71	PK
	*	22320	33.21	6.93	40.14	74	-33.86	PK
	*	24800	32.3	12.44	44.74	74	-29.26	PK

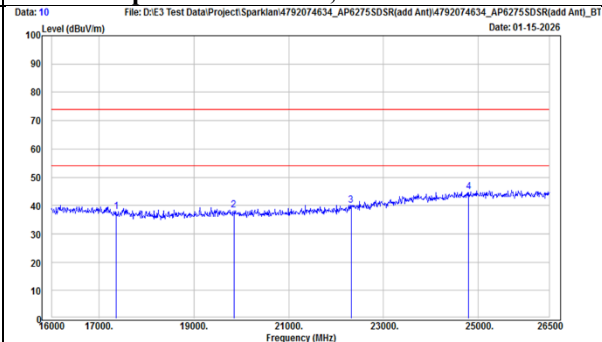
TX, 8DPSK - Emission (Ch 78)

Radiated Spurious Emission, Horizontal



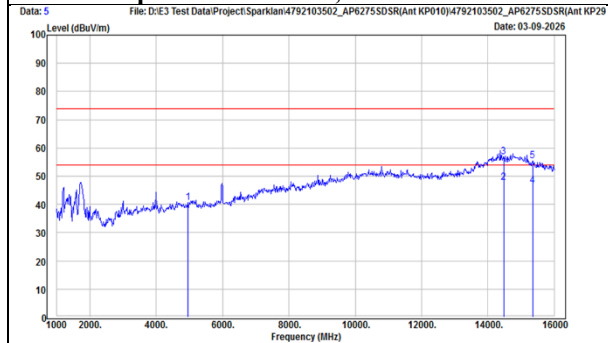
TX, 8DPSK - Emission (Ch 78)

Radiated Spurious Emission, Vertical



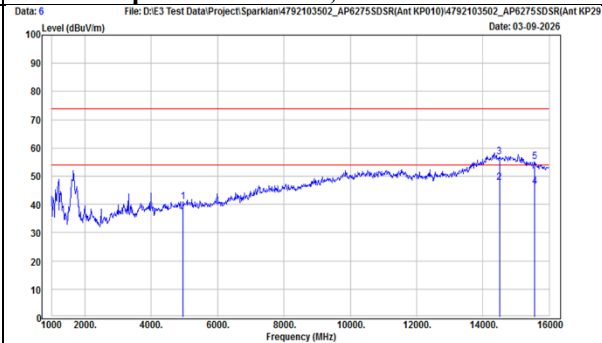
TX, 8DPSK - Emission (Ch 78)

Radiated Spurious Emission, Horizontal



TX, 8DPSK - Emission (Ch 78)

Radiated Spurious Emission, Vertical

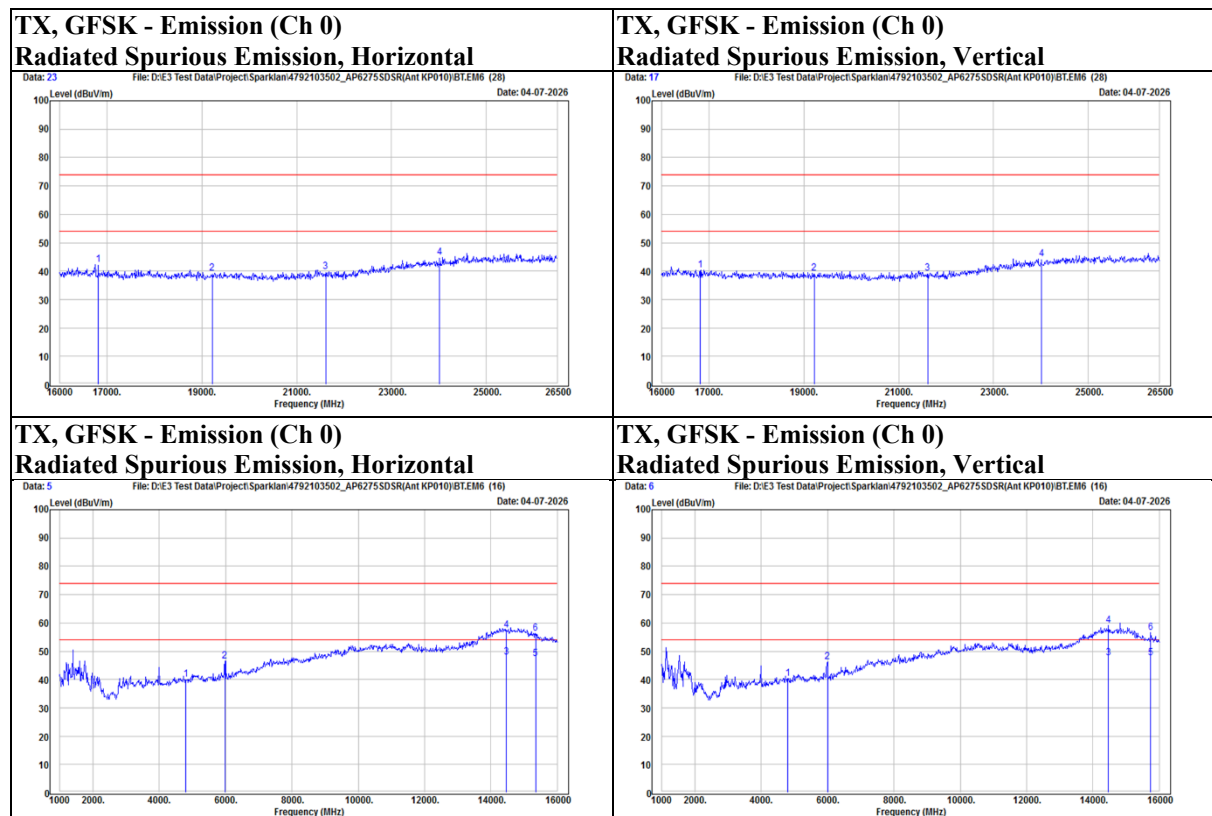


ANTENNA NO.13 (RFA-25-KP010-4B-70)

Above 1 GHz

Mode	GFSK - Emission	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4804	35.7	4.22	39.92	74	-34.08	PK
		5980	39.78	6.79	46.57	74	-27.43	PK
		14470	29.45	27.97	57.42	74	-16.58	PK
		14470	19.97	27.97	47.94	54	-6.06	AVG
		15350	29.8	26.39	56.19	74	-17.81	PK
		15350	20.97	26.39	47.36	54	-6.64	AVG
	*	16814	36.84	5.41	42.25	74	-31.75	PK
	*	19216	35.5	3.58	39.08	74	-34.92	PK
	*	21618	33.53	6.16	39.69	74	-34.31	PK
Vertical	*	24020	34.12	10.74	44.86	74	-29.14	PK
	*	4804	36.15	4.22	40.37	74	-33.63	PK
		5995	39.3	6.83	46.13	74	-27.87	PK
		14470	31.01	27.97	58.98	74	-15.02	PK
		14470	19.59	27.97	47.56	54	-6.44	AVG
		15745	31.21	25.35	56.56	74	-17.44	PK
		15745	22.38	25.35	47.73	54	-6.27	AVG
	*	16814	35.06	5.41	40.47	74	-33.53	PK
	*	19216	35.76	3.58	39.34	74	-34.66	PK
	*	21618	33.01	6.16	39.17	74	-34.83	PK
	*	24020	33.5	10.74	44.24	74	-29.76	PK



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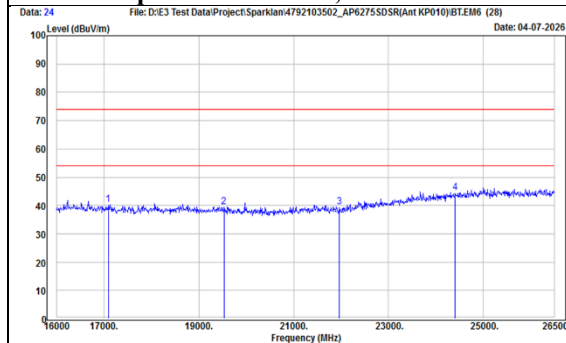
Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Mode	GFSK - Emission	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4882	36.55	4.48	41.03	74	-32.97	PK
		5980	38.73	6.79	45.52	74	-28.48	PK
		14470	28.98	27.97	56.95	74	-17.05	PK
		14470	19.96	27.97	47.93	54	-6.07	AVG
		15430	29.34	26.08	55.42	74	-18.58	PK
		15430	20.51	26.08	46.59	54	-7.41	AVG
	*	17087	34.86	5.41	40.27	74	-33.73	PK
	*	19528	35.51	3.99	39.5	74	-34.5	PK
	*	21969	33.28	6.25	39.53	74	-34.47	PK
	*	24410	32.59	11.97	44.56	74	-29.44	PK
Vertical	*	4882	34.76	4.48	39.24	74	-34.76	PK
		6400	36.31	8.63	44.94	74	-29.06	PK
		14470	28.38	27.97	56.35	74	-17.65	PK
		14470	19.81	27.97	47.78	54	-6.22	AVG
		15565	30.8	25.63	56.43	74	-17.57	PK
		15565	21.97	25.63	47.6	54	-6.4	AVG
	*	17087	32.88	5.41	38.29	74	-35.71	PK
	*	19528	34.11	3.99	38.1	74	-35.9	PK
	*	21969	31.79	6.25	38.04	74	-35.96	PK
	*	24410	31.04	11.97	43.01	74	-30.99	PK

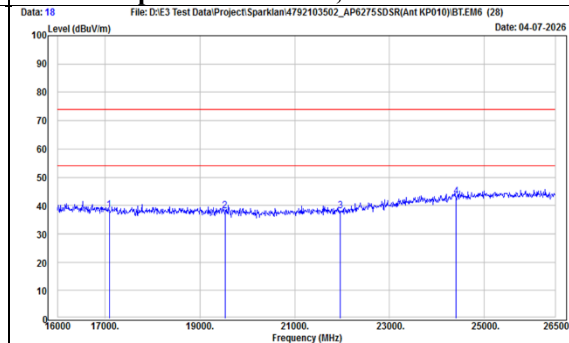
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



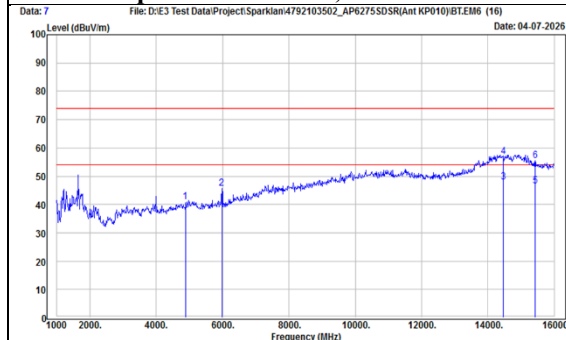
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



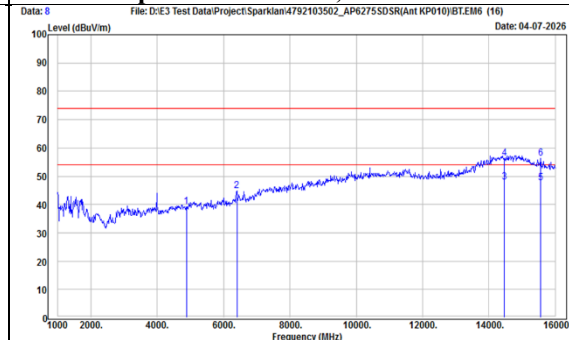
TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



TX, GFSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



Underwriters Laboratories Taiwan Co., Ltd.

Building A, B and E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

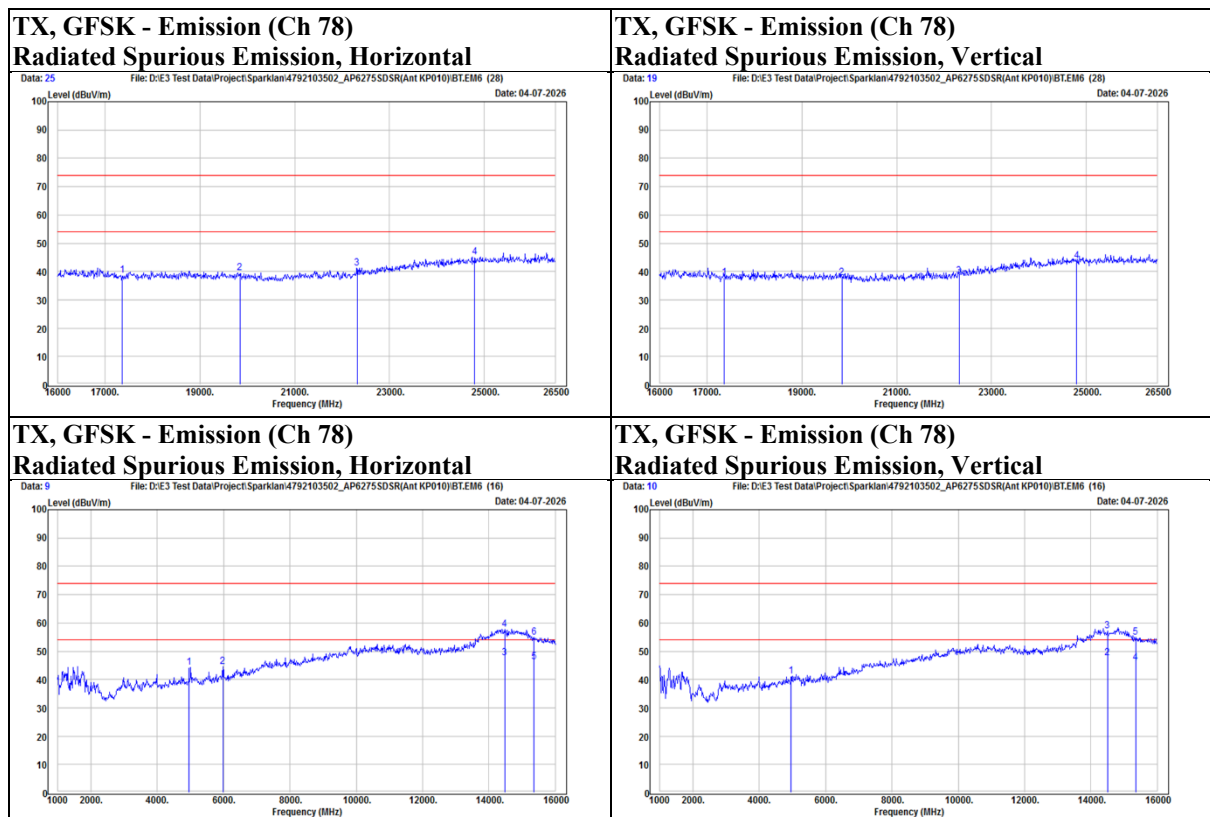
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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

Mode	GFSK - Emission	Channel	78
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4960	39.57	4.59	44.16	74	-29.84	PK
		5980	37.62	6.79	44.41	74	-29.59	PK
		14485	29.63	27.98	57.61	74	-16.39	PK
		14485	19.68	27.98	47.66	54	-6.34	AVG
		15370	28.72	26.29	55.01	74	-18.99	PK
		15370	19.89	26.29	46.18	54	-7.82	AVG
	*	17360	33.9	4.89	38.79	74	-35.21	PK
	*	19840	35.36	4.06	39.42	74	-34.58	PK
	*	22320	34.12	6.93	41.05	74	-32.95	PK
	*	24800	32.64	12.44	45.08	74	-28.92	PK
Vertical	*	4960	36.64	4.59	41.23	74	-32.77	PK
		14500	29.07	28	57.07	74	-16.93	PK
		14500	19.59	28	47.59	54	-6.41	AVG
		15355	28.45	26.36	54.81	74	-19.19	PK
		15355	19.62	26.36	45.98	54	-8.02	AVG
	*	17360	33.03	4.89	37.92	74	-36.08	PK
	*	19840	33.67	4.06	37.73	74	-36.27	PK
	*	22320	31.44	6.93	38.37	74	-35.63	PK
	*	24800	31.23	12.44	43.67	74	-30.33	PK

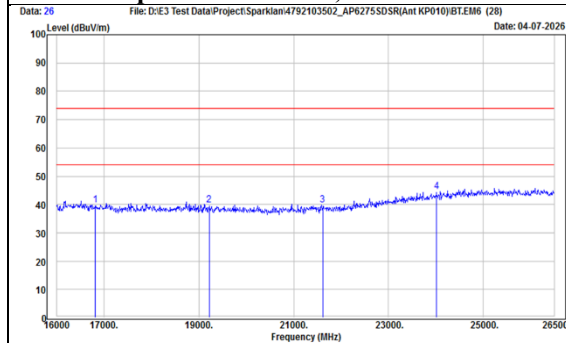


Mode	8DPSK - Emission	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4804	36.64	4.22	40.86	74	-33.14	PK
		5980	38.72	6.79	45.51	74	-28.49	PK
		14500	28.32	28	56.32	74	-17.68	PK
		14500	19.75	28	47.75	54	-6.25	AVG
		15565	29.26	25.63	54.89	74	-19.11	PK
		15565	20.43	25.63	46.06	54	-7.94	AVG
	*	16814	34.3	5.41	39.71	74	-34.29	PK
	*	19216	36.09	3.58	39.67	74	-34.33	PK
	*	21618	33.55	6.16	39.71	74	-34.29	PK
	*	24020	33.85	10.74	44.59	74	-29.41	PK
Vertical	*	4804	35.45	4.22	39.67	74	-34.33	PK
		5590	41.52	5.71	47.23	74	-26.77	PK
		14470	27.92	27.97	55.89	74	-18.11	PK
		14470	19.35	27.97	47.32	54	-6.68	AVG
		15370	29.59	26.29	55.88	74	-18.12	PK
		15370	20.76	26.29	47.05	54	-6.95	AVG
	*	16814	32.1	5.41	37.51	74	-36.49	PK
	*	19216	34.14	3.58	37.72	74	-36.28	PK
	*	21618	31.48	6.16	37.64	74	-36.36	PK
	*	24020	30.77	10.74	41.51	74	-32.49	PK

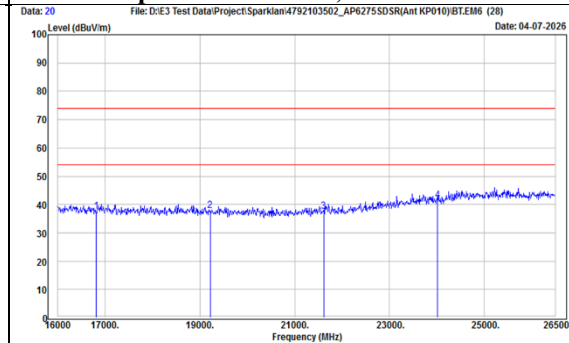
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



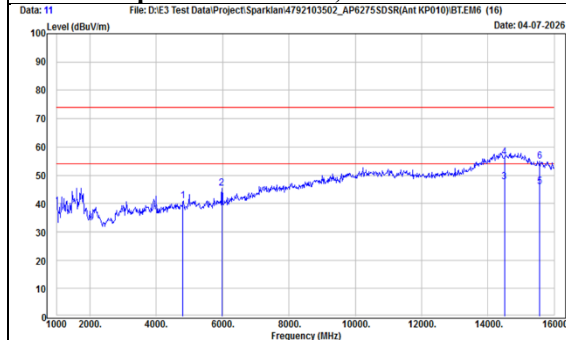
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical



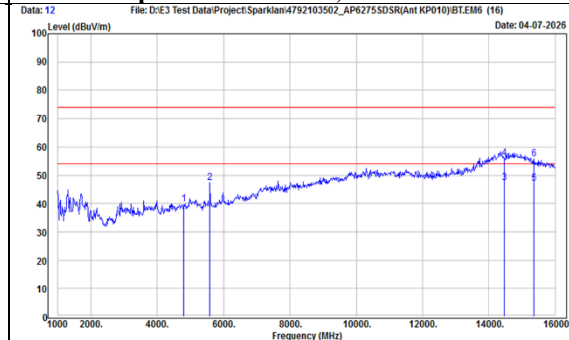
TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Horizontal



TX, 8DPSK - Emission (Ch 0)

Radiated Spurious Emission, Vertical

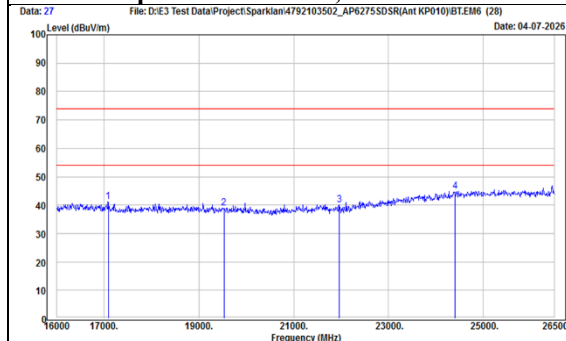


Mode	8DPSK - Emission	Channel	39
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4882	35.55	4.48	40.03	74	-33.97	PK
		5995	37.97	6.83	44.8	74	-29.2	PK
		14485	29.01	27.98	56.99	74	-17.01	PK
		14485	19.99	27.98	47.97	54	-6.03	AVG
		15415	30.36	26.1	56.46	74	-17.54	PK
		15415	21.53	26.1	47.63	54	-6.37	AVG
	*	17087	35.85	5.41	41.26	74	-32.74	PK
	*	19528	35.08	3.99	39.07	74	-34.93	PK
	*	21969	33.7	6.25	39.95	74	-34.05	PK
	*	24410	32.94	11.97	44.91	74	-29.09	PK
Vertical	*	4882	35.56	4.48	40.04	74	-33.96	PK
		14500	29.51	28	57.51	74	-16.49	PK
		14500	19.56	28	47.56	54	-6.44	AVG
		15520	29.63	25.84	55.47	74	-18.53	PK
		15520	20.8	25.84	46.64	54	-7.36	AVG
	*	17087	35.9	5.41	41.31	74	-32.69	PK
	*	19528	33.22	3.99	37.21	74	-36.79	PK
	*	21969	32.15	6.25	38.4	74	-35.6	PK
	*	24410	30.73	11.97	42.7	74	-31.3	PK

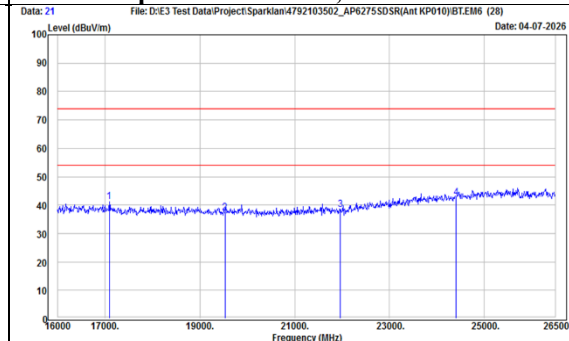
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



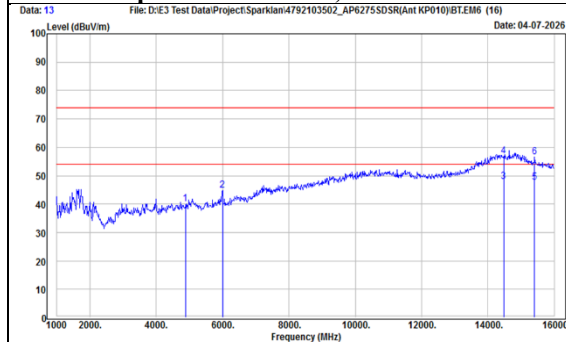
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



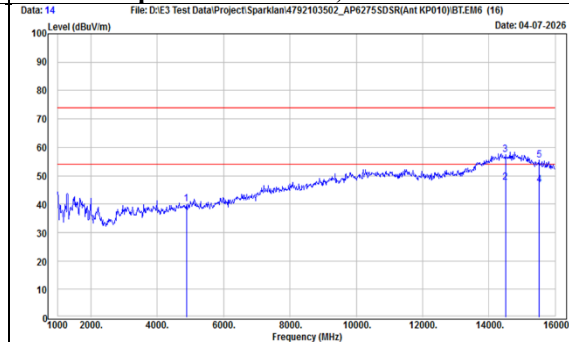
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Horizontal



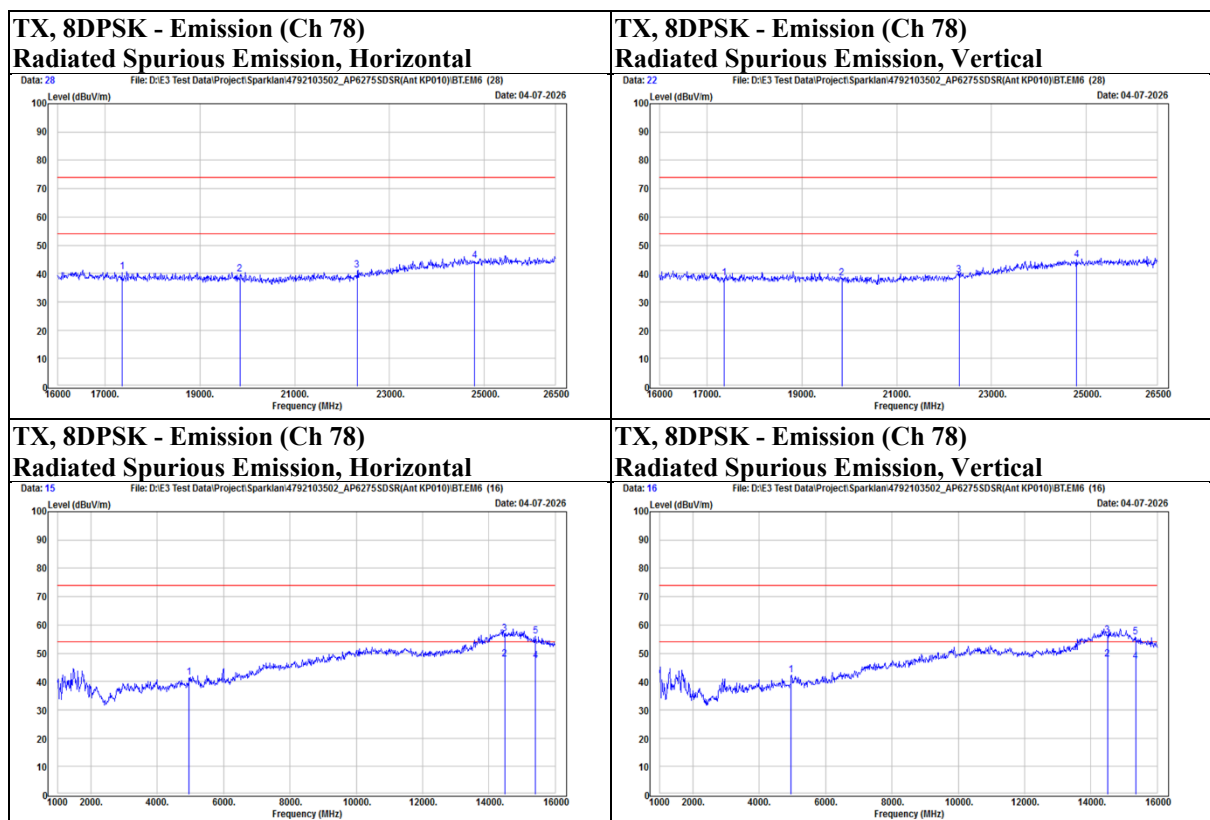
TX, 8DPSK - Emission (Ch 39)

Radiated Spurious Emission, Vertical



Mode	8DPSK - Emission	Channel	78
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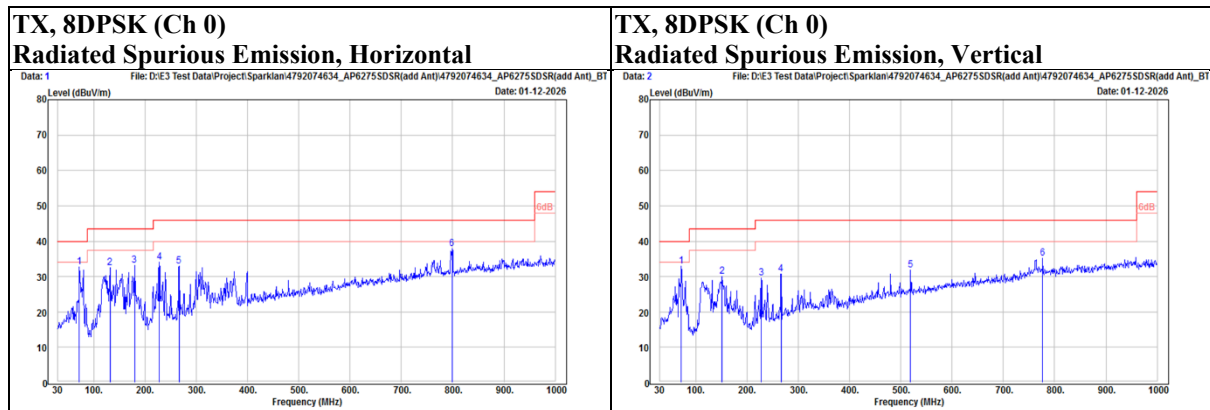
Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal	*	4960	36.93	4.59	41.52	74	-32.48	PK
		14485	28.81	27.98	56.79	74	-17.21	PK
		14485	19.79	27.98	47.77	54	-6.23	AVG
		15415	30.05	26.1	56.15	74	-17.85	PK
		15415	21.22	26.1	47.32	54	-6.68	AVG
	*	17360	35.73	4.89	40.62	74	-33.38	PK
	*	19840	35.75	4.06	39.81	74	-34.19	PK
	*	22320	34.22	6.93	41.15	74	-32.85	PK
	*	24800	32.1	12.44	44.54	74	-29.46	PK
Vertical	*	4960	37.67	4.59	42.26	74	-31.74	PK
		14500	28.42	28	56.42	74	-17.58	PK
		14500	19.85	28	47.85	54	-6.15	AVG
		15350	29.46	26.39	55.85	74	-18.15	PK
		15350	20.63	26.39	47.02	54	-6.98	AVG
	*	17360	33.62	4.89	38.51	74	-35.49	PK
	*	19840	34.36	4.06	38.42	74	-35.58	PK
	*	22320	32.59	6.93	39.52	74	-34.48	PK
	*	24800	32.39	12.44	44.83	74	-29.17	PK



Below 1 GHz

Mode	8DPSK	Channel	0
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Polarization	Notation	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Horizontal		71.71	47.33	-14.55	32.78	40	-7.22	PK
		131.85	45.56	-13.02	32.54	43.5	-10.96	PK
		179.38	46	-12.77	33.23	43.5	-10.27	PK
		227.88	47.93	-13.91	34.02	46	-11.98	PK
		266.68	44.3	-11.37	32.93	46	-13.07	PK
		799.21	36.55	1.39	37.94	46	-8.06	PK
Vertical		71.71	47.43	-14.55	32.88	40	-7.12	PK
		151.25	41.4	-11.34	30.06	43.5	-13.44	PK
		227.88	43.53	-13.91	29.62	46	-16.38	PK
		266.68	42.1	-11.37	30.73	46	-15.27	PK
		518.88	36.1	-4.26	31.84	46	-14.16	PK
		776.9	34.04	1.25	35.29	46	-10.71	PK



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Doc No: Form-ULID-004737 (DCS:17-EM-F0876) / 7.0

9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test 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 based on KDB 414788.

END OF REPORT**Underwriters Laboratories Taiwan Co., Ltd.**

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