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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

TEST REPORT

Applicant:	GUANGDONG SYMA MODEL AIRCRAFT	Fax:	---
	INDUSTRIAL CO.,LTD	E-mail:	---
Address :	NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China		
Test Date :	2024-6-20 to 2024-6-26		

Manufacturer or Supplier :	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD
Address :	NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China
Sample Description:	DRONE
Model number:	X26PRO
Additional Model :	X26LUM
Rated Voltage:	DC6.0V (AAA*4)
FCC ID :	QV7-GC88752-102
The submitted sample of the above equipment has been tested according to following standard(s)	
47 CFR Part 15, Subpart C	
CONCLUSION: The submitted sample was found to COMPLY with the test requirement	

Assistant Manager

Name: Nick Lung

Date: JUL 24,2024



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1 Test Summary

Test Item	IC Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.249 (a)	RSS-Gen section 6.12 & ANSI C63.10-2013	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.249(a)/15.205	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215 (c)	RSS-Gen section 6.7 & ANSI C63.10-2013	PASS

N/A: There is no direct or indirect access to the AC power supply network.



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3 General Information

3.1 Client Information

Applicant:	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD
Address of Applicant:	NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China
Manufacturer:	GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD
Address of Manufacturer:	NO.2 WEST XINGYE ROAD LAIMEI INDUSTRIAL AREA CHENG HAI,Shantou, China

3.2 General Description of EUT

Name:	DRONE
Tset Model No.:	X26PRO
Trade Mark :	N/A
Serial No.:	---
Software Version:	V1.0
Hardware Version:	V1.0
Frequency Range:	2410-2472MHz
Modulation Type:	GFSK
Number of Channels:	63
Sample Type:	Portable product
Antenna Type:	wire antenna
Antenna Gain:	1dBi
Power Supply:	DC6.0V (AAA*4)

Note:Tset Model No.:X26PRO,Additional Model :X26LUM

Their electrical circuit design, layout, components used and internal wiring are identical, Only the color is different.



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Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	26	2435	51	2460
2	2411	27	2436	52	2461
3	2412	28	2437	53	2462
4	2413	29	2438	54	2463
5	2414	30	2439	55	2464
6	2415	31	2440	56	2465
7	2416	32	2441	57	2466
8	2417	33	2442	58	2467
9	2418	34	2443	59	2468
10	2419	35	2444	60	2469
11	2420	36	2445	61	2470
12	2421	37	2446	62	2471
13	2422	38	2447	63	2472
14	2423	39	2448		
15	2424	40	2449		
16	2425	41	2450		
17	2426	42	2451		
18	2427	43	2452		
19	2428	44	2453		
20	2429	45	2454		
21	2430	46	2455		
22	2431	47	2456		
23	2432	48	2457		
24	2433	49	2458		
25	2434	50	2459		



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Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2410MHz
The Middle channel	2441MHz
The Highest channel	2472MHz



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3.3 Test Environment and Mode

Operating Environment:	
Temperature:	29.1 °C
Humidity:	57% RH
Atmospheric Pressure:	1001mbar
Test mode:	
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. All test items use new battery tests

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	/



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3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8 °C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	time	0.6 %.
14	Frequency Error	5.5 Hz



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3.6 Test Location

Subcontraction to External 3rd party lab

The analysis was performed by a Bureau Veritas assessed external subcontractor

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Testers and auditors

The tester in this report is Timo Lei, The auditor of this report is Lewis Zhou, The test site is: Shenzhen Huaxia Testing Technology Co., Ltd.

3.8 Test Facility

• ISED No.: 22984

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

3.9 Deviation from Standards

None.

3.10 Abnormalities from Standard Conditions

None.

3.11 Other Information Requested by the Customer

None.



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3.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/9/8	2024/9/7
Spectrum analyzer	R&S	FSU26	CQA-038	2023/9/8	2024/9/7
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2023/9/8	2024/9/7
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2023/9/8	2024/9/7
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2023/9/8	2024/9/7
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2023/9/8	2024/9/7
Antenna Connector	CQA	RFC-01	CQA-080	2023/9/8	2024/9/7
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/9/8	2024/9/7
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2023/9/8	2024/9/7

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203
EUT Antenna:	See the Appendix 2- EUT Photos
The antenna is soldered on the PCB, no need to consider replacement. best case gain Antenna is 1dBi.	



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4.2 Radiated Emission

Test Requirement:	RSS 210 B 10 (a) 47 CFR Part 15, Subpart C Section 15.205/15.209				
Test Method:	ANSI C63.10 & RSS-Gen section 6.12/6.13				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. 2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.					
Limit:	Frequency	Limit (dBuV/m @3m)	Remark		



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(Field strength of the fundamental signal)	2400MHz-2483.5MHz	94.0	Average Value
		114.0	Peak Value

Test Setup:

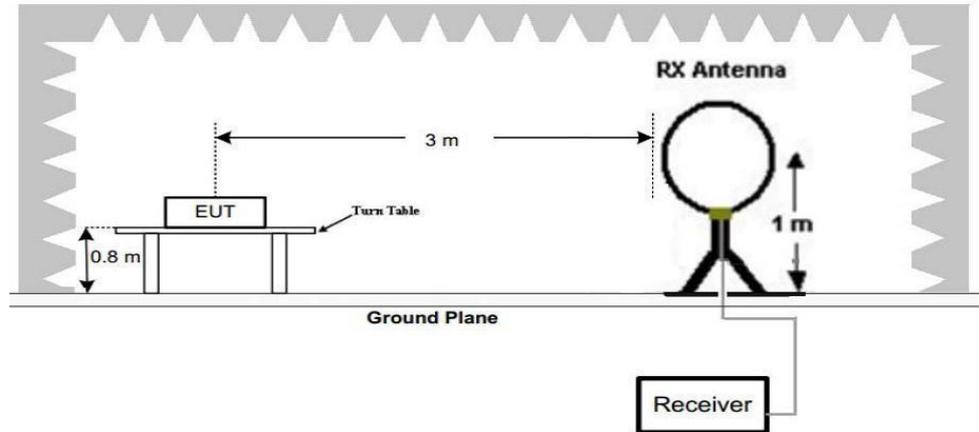


Figure 1. Below 30MHz

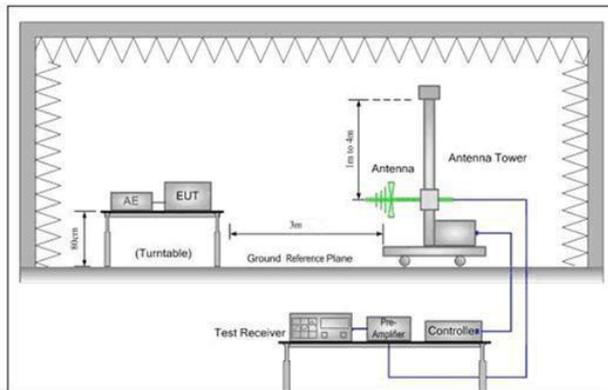


Figure 2. 30MHz to 1GHz

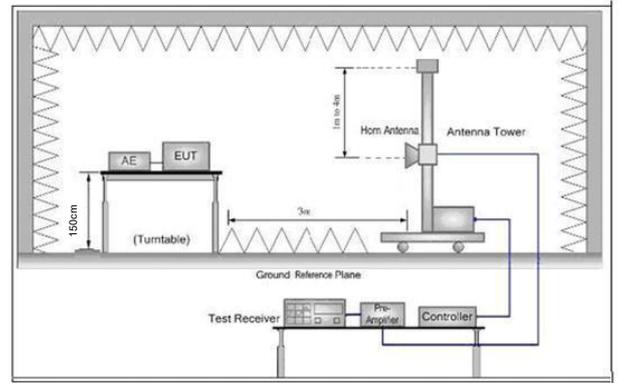


Figure 3. Above 1 GHz

Test Procedure:	<p>a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.</p>
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	<ul style="list-style-type: none">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 antenna height 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.g. Test the EUT in the lowest channel, the middle channel, the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Voltage:	DC6.0V (AA*4)
Test Results:	Pass

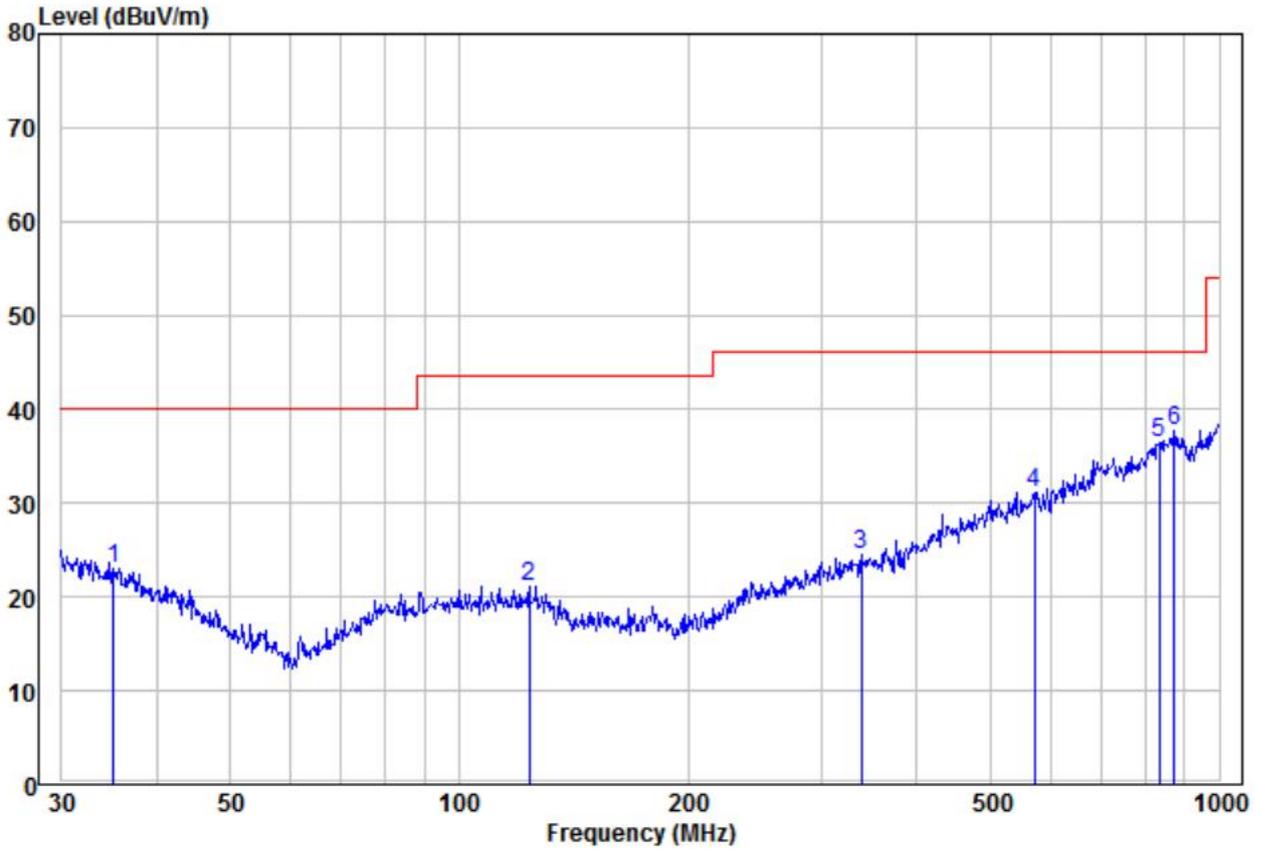


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Measurement Data

30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Vertical



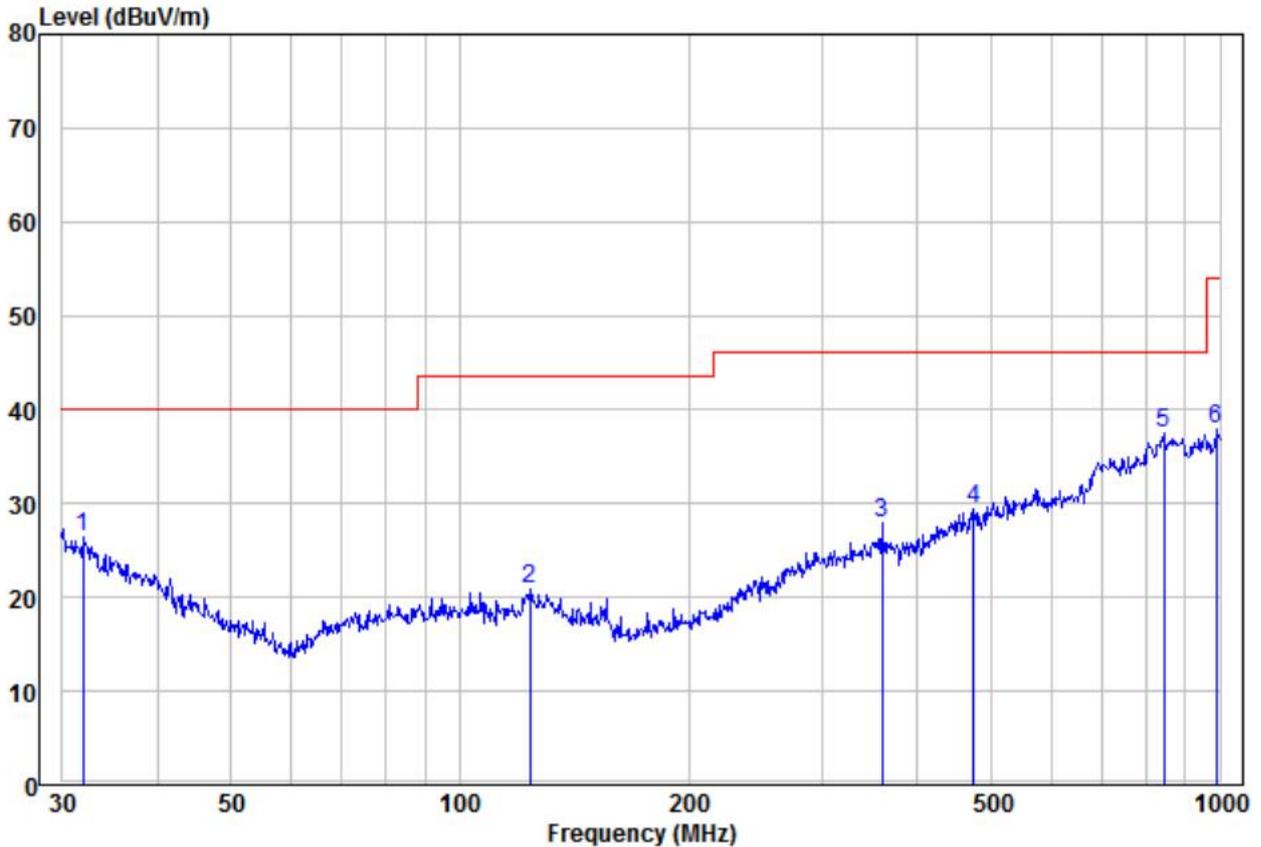
	Read Freq	Read Level	Read Factor	Limit Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	35.13	8.14	14.98	23.12	40.00	-16.88	QP	VERTICAL
2	123.70	9.43	11.77	21.20	43.50	-22.30	QP	VERTICAL
3	338.40	8.22	16.31	24.53	46.00	-21.47	QP	VERTICAL
4	570.61	9.99	21.20	31.19	46.00	-14.81	QP	VERTICAL
5	833.32	9.77	26.64	36.41	46.00	-9.59	QP	VERTICAL
6 pp	872.18	10.94	26.77	37.71	46.00	-8.29	QP	VERTICAL



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30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Horizontal



	Read Freq	Level	Factor	Limit Level	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	31.95	10.88	15.68	26.56	40.00	-13.44	QP HORIZONTAL
2	123.70	9.22	11.77	20.99	43.50	-22.51	QP HORIZONTAL
3	359.19	11.19	16.84	28.03	46.00	-17.97	QP HORIZONTAL
4	473.83	9.97	19.40	29.37	46.00	-16.63	QP HORIZONTAL
5 pp	845.09	10.77	26.82	37.59	46.00	-8.41	QP HORIZONTAL
6	989.54	10.45	27.44	37.89	54.00	-16.11	QP HORIZONTAL

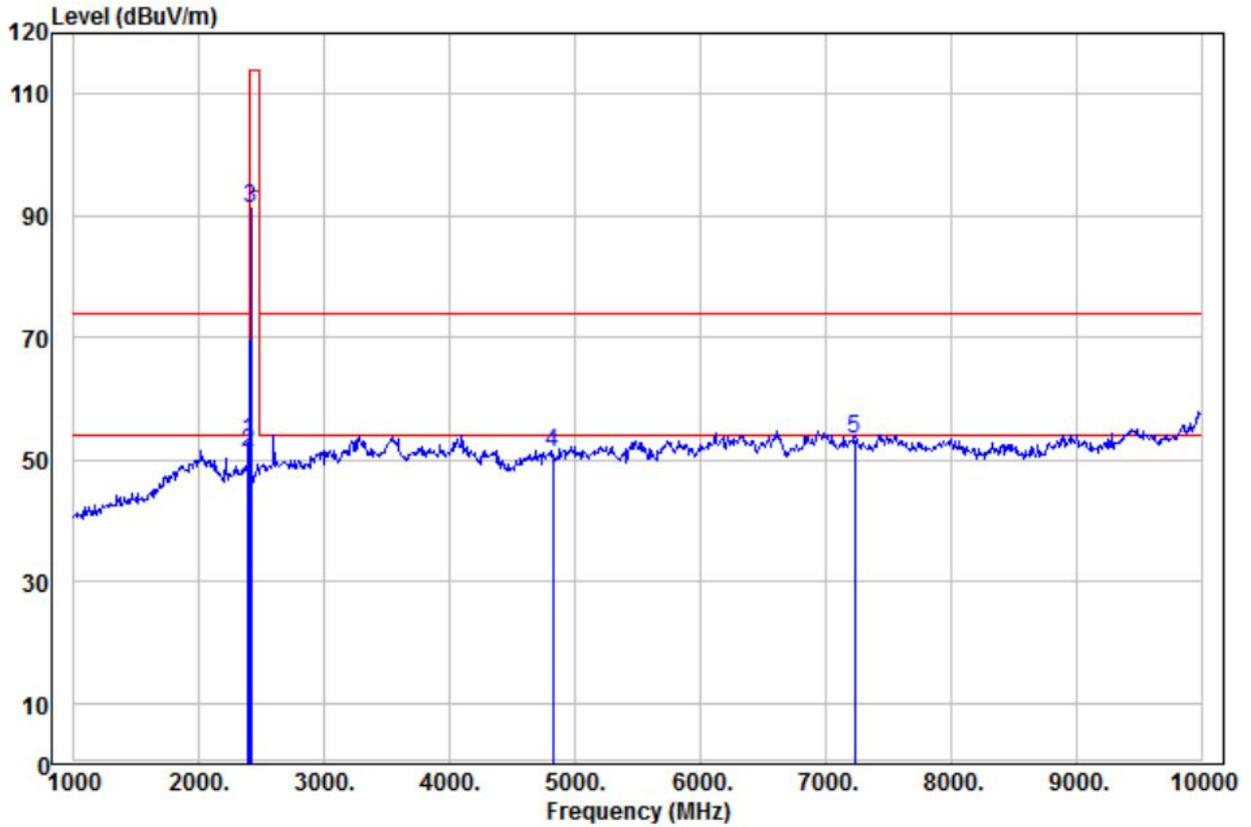


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Above 1GHz

2410MHz

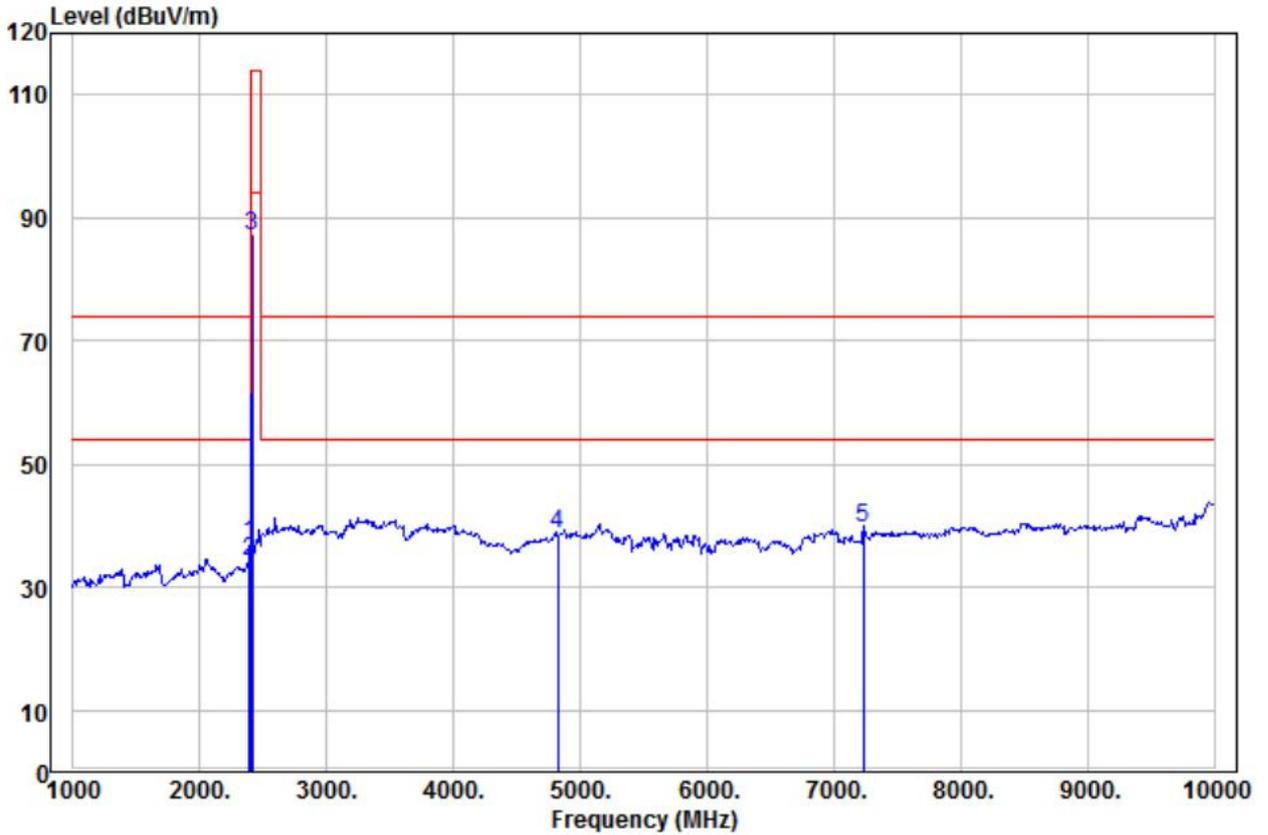


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2390.00	56.90	-3.86	53.04	74.00	-20.96	Peak	HORIZONTAL
2	2400.00	55.05	-3.88	51.17	74.00	-22.83	Peak	HORIZONTAL
3	2410.00	95.06	-3.83	91.23	114.00	-22.77	Peak	HORIZONTAL
4	4820.00	44.99	6.24	51.23	74.00	-22.77	Peak	HORIZONTAL
5	pp 7230.00	38.67	14.70	53.37	74.00	-20.63	Peak	HORIZONTAL



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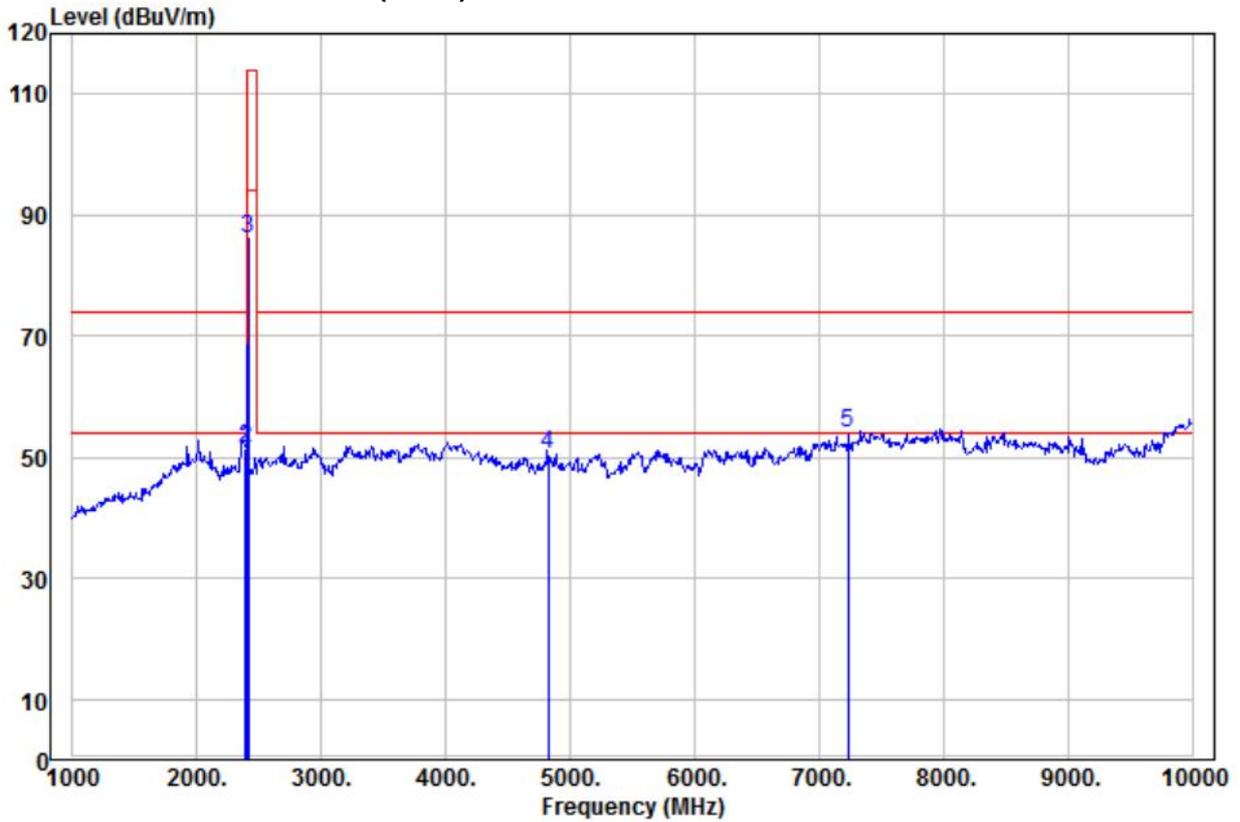


	Freq	Read		Limit	Over			
	MHz	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
		dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2390.00	41.06	-3.86	37.20	54.00	-16.80	Average	HORIZONTAL
2	2400.00	38.22	-3.88	34.34	54.00	-19.66	Average	HORIZONTAL
3 pp	2410.00	90.81	-3.83	86.98	94.00	-7.02	Average	HORIZONTAL
4	4820.00	32.49	6.24	38.73	54.00	-15.27	Average	HORIZONTAL
5	7230.00	24.86	14.70	39.56	54.00	-14.44	Average	HORIZONTAL



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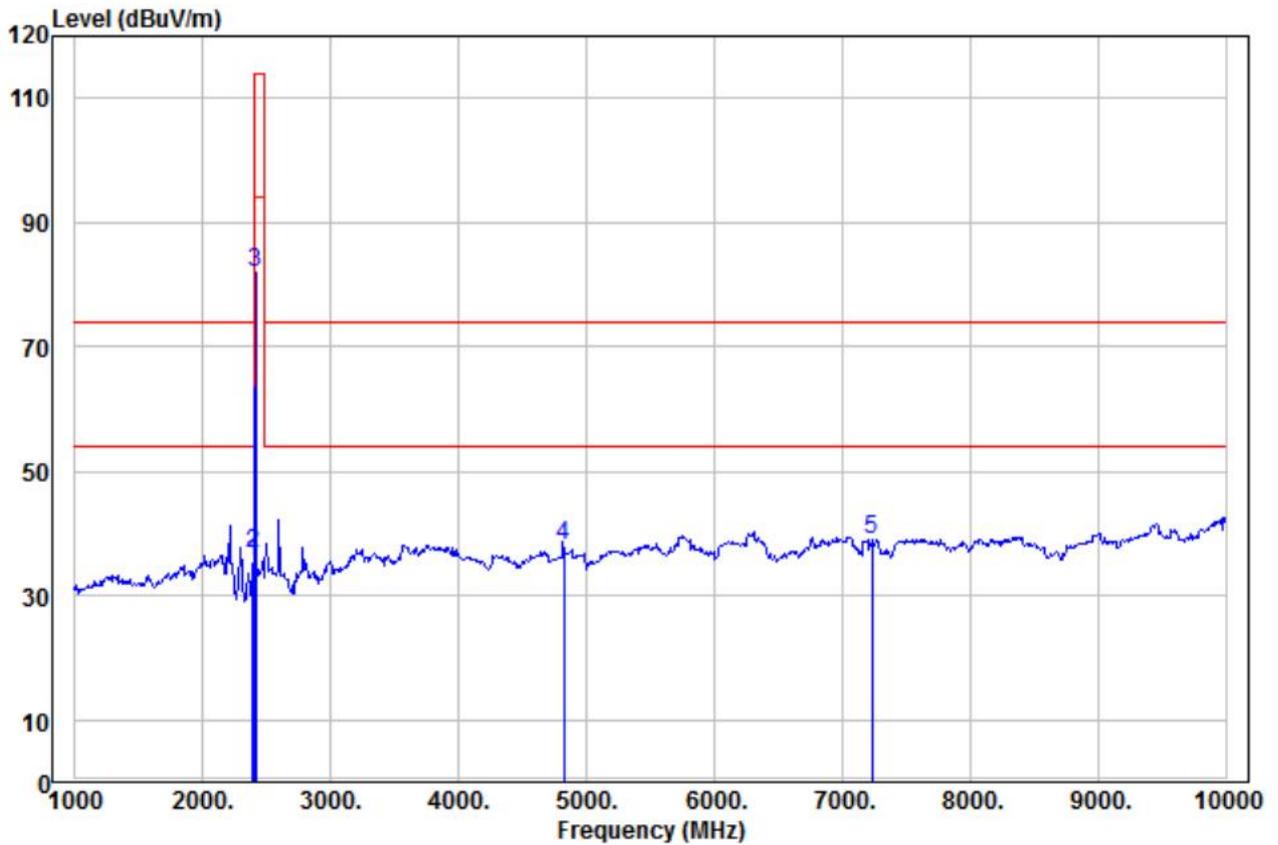


	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2390.00	55.26	-3.86	51.40	74.00	-22.60	Peak	VERTICAL
2	2400.00	55.39	-3.88	51.51	74.00	-22.49	Peak	VERTICAL
3	2410.00	89.82	-3.83	85.99	114.00	-28.01	Peak	VERTICAL
4	4820.00	44.40	6.24	50.64	74.00	-23.36	Peak	VERTICAL
5 pp	7230.00	39.25	14.70	53.95	74.00	-20.05	Peak	VERTICAL



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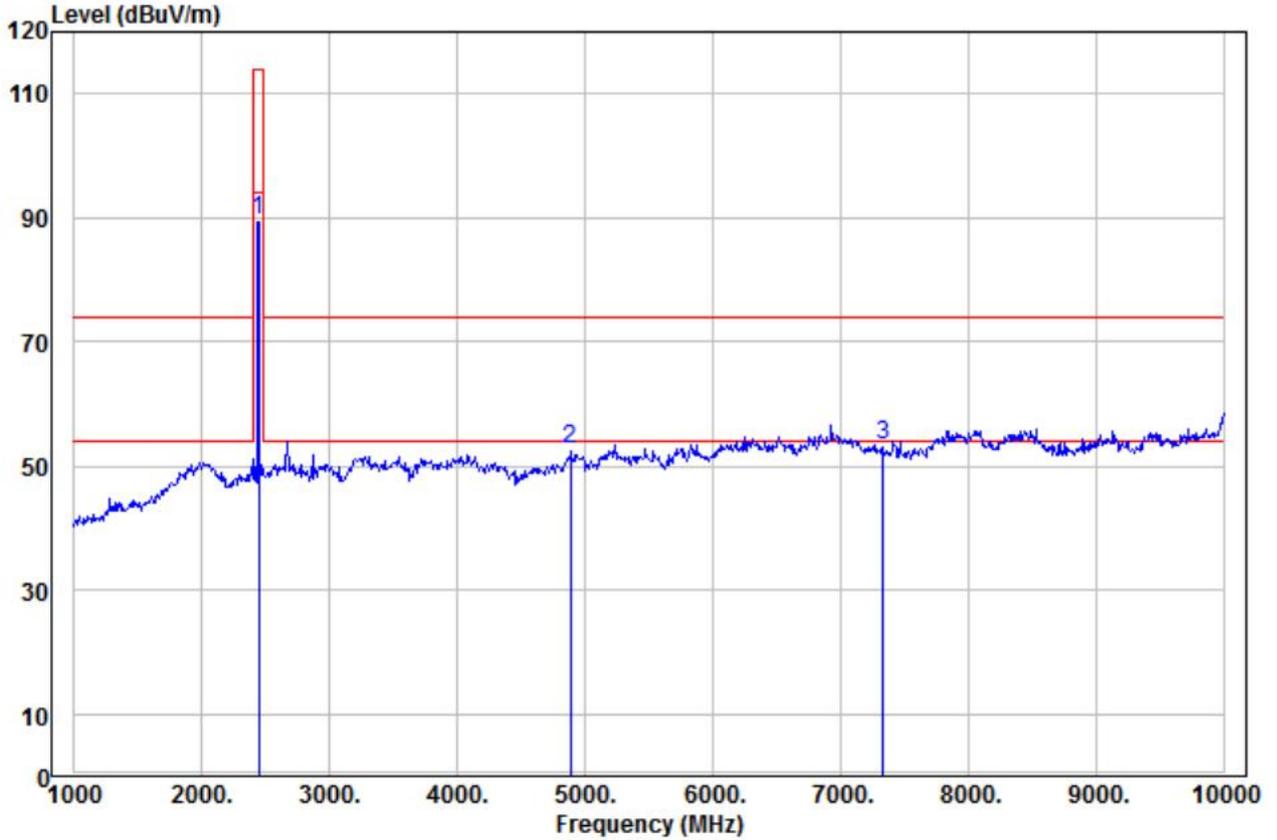
	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2390.00	39.23	-3.86	35.37	54.00	-18.63	Average	VERTICAL
2	2400.00	40.84	-3.88	36.96	54.00	-17.04	Average	VERTICAL
3 pp	2410.00	85.90	-3.83	82.07	94.00	-11.93	Average	VERTICAL
4	4820.00	31.80	6.24	38.04	54.00	-15.96	Average	VERTICAL
5	7230.00	24.25	14.70	38.95	54.00	-15.05	Average	VERTICAL



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2442MHz

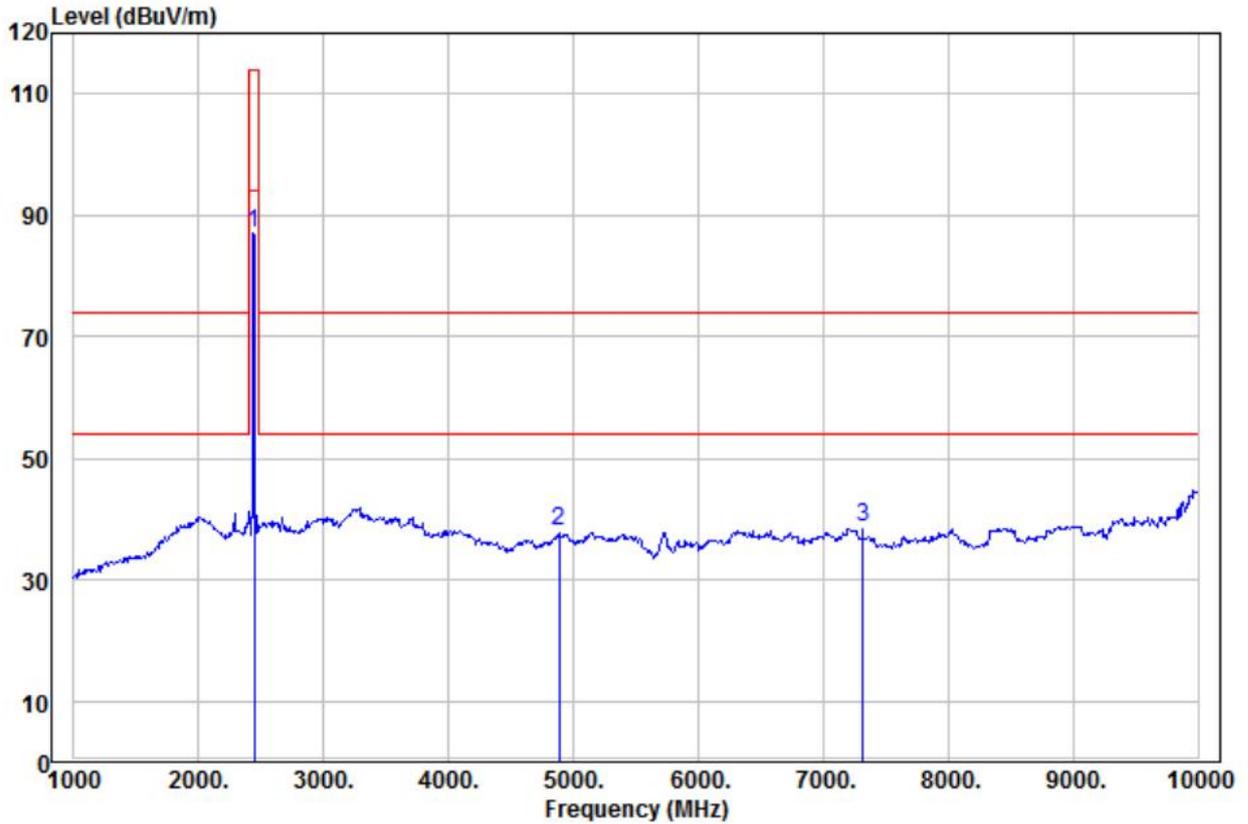


	Read Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2442.00	93.15	-3.67	89.48	114.00	-24.52	Peak	HORIZONTAL
2	4882.00	46.30	6.58	52.88	74.00	-21.12	Peak	HORIZONTAL
3 pp	7332.00	38.97	14.49	53.46	74.00	-20.54	Peak	HORIZONTAL



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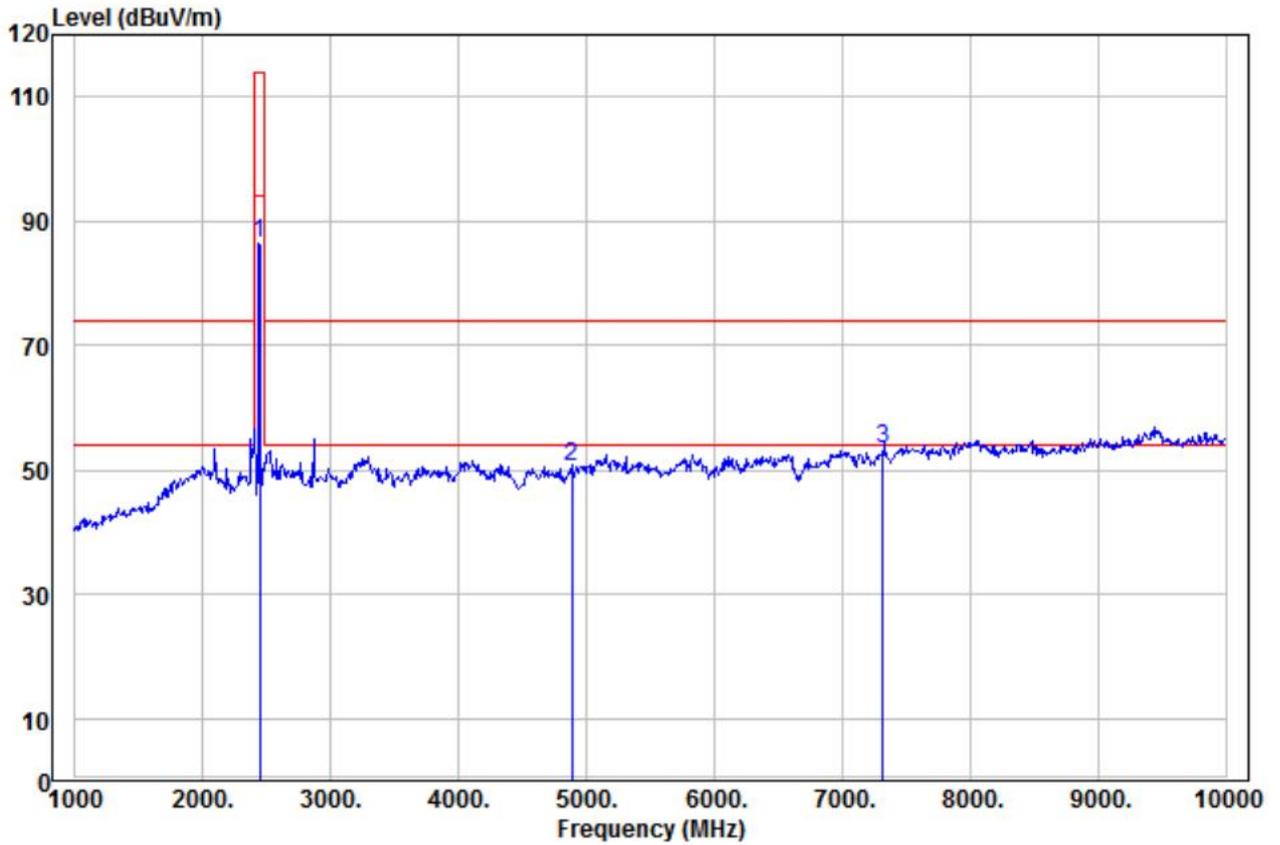


	Read Freq	Level	Factor	Limit Level	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 pp	2442.00	90.81	-3.67	87.14	94.00	-6.86	Average HORIZONTAL
2	4882.00	31.37	6.58	37.95	54.00	-16.05	Average HORIZONTAL
3	7323.00	24.24	14.51	38.75	54.00	-15.25	Average HORIZONTAL



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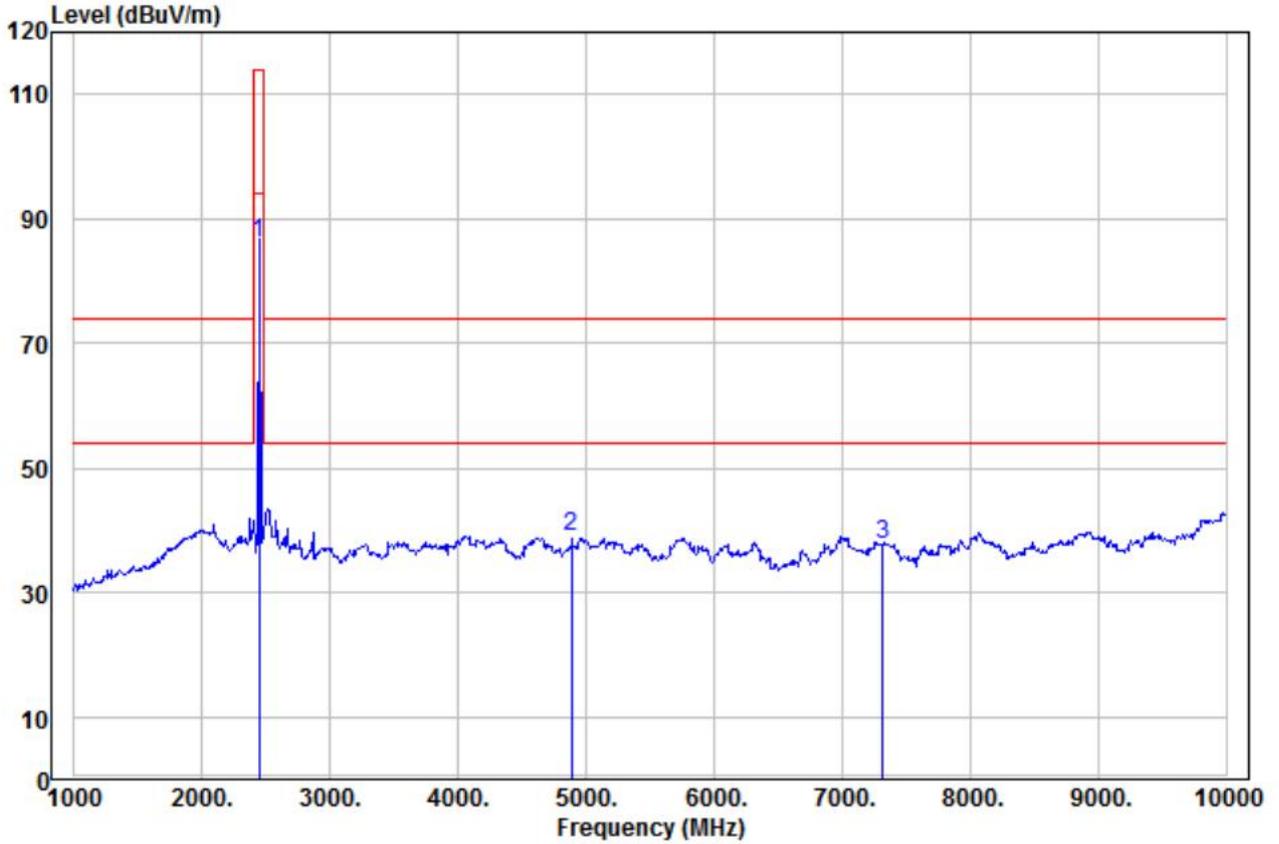


	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2442.00	89.99	-3.67	86.32	114.00	-27.68	Peak	VERTICAL
2	4882.00	44.05	6.58	50.63	74.00	-23.37	Peak	VERTICAL
3 pp	7323.00	38.96	14.51	53.47	74.00	-20.53	Peak	VERTICAL



**BUREAU
VERITAS**

TEST REPORT NUMBER: (8524)170-0383



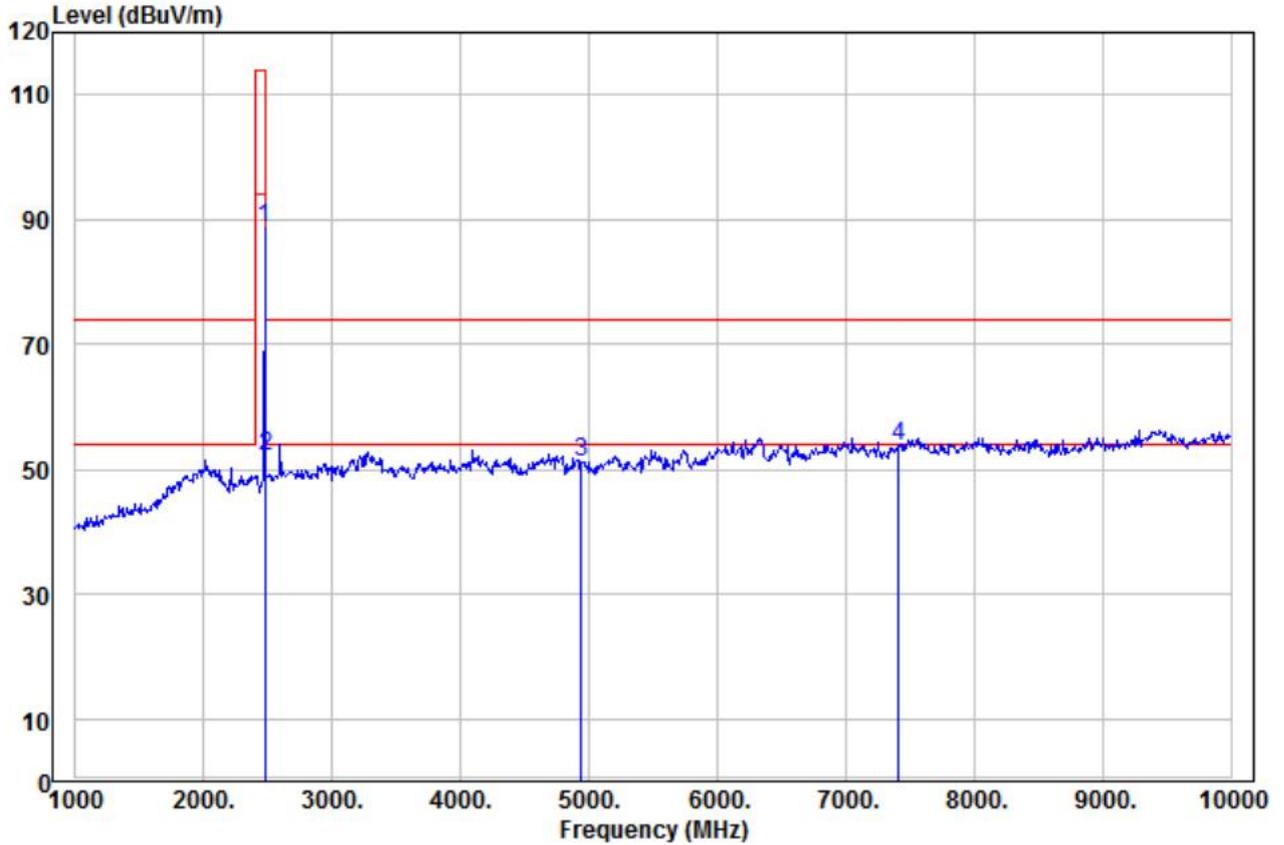
	Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	2442.00	89.83	-3.67	86.16	94.00	-7.84	Average	VERTICAL
2	4882.00	32.45	6.58	39.03	54.00	-14.97	Average	VERTICAL
3	7323.00	23.30	14.51	37.81	54.00	-16.19	Average	VERTICAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

2472MHz

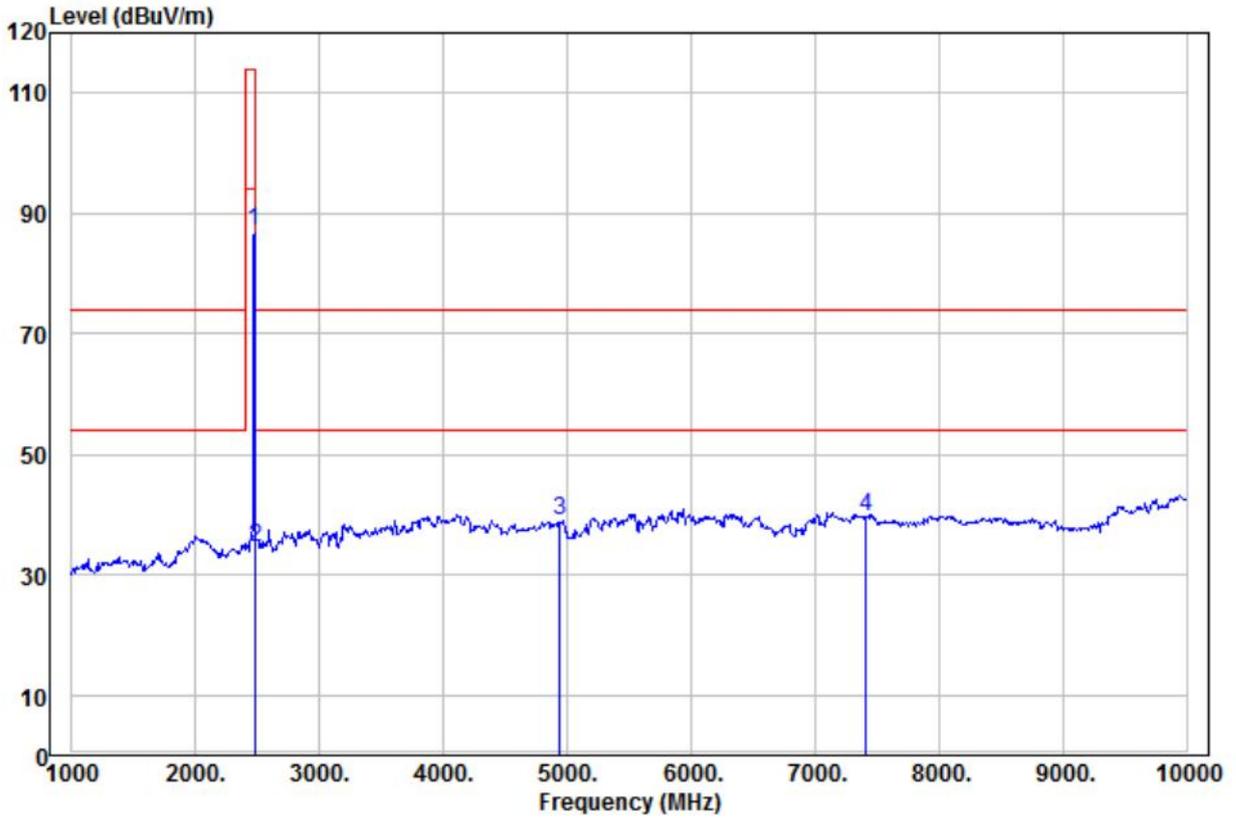


	Read Freq	Read Level	Factor	Limit Level	Over Limit	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2472.00	92.35	-3.56	88.79	114.00	-25.21	Peak	HORIZONTAL
2	2483.50	55.63	-3.53	52.10	74.00	-21.90	Peak	HORIZONTAL
3	4944.00	44.03	7.03	51.06	74.00	-22.94	Peak	HORIZONTAL
4 pp	7416.00	39.71	14.12	53.83	74.00	-20.17	Peak	HORIZONTAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

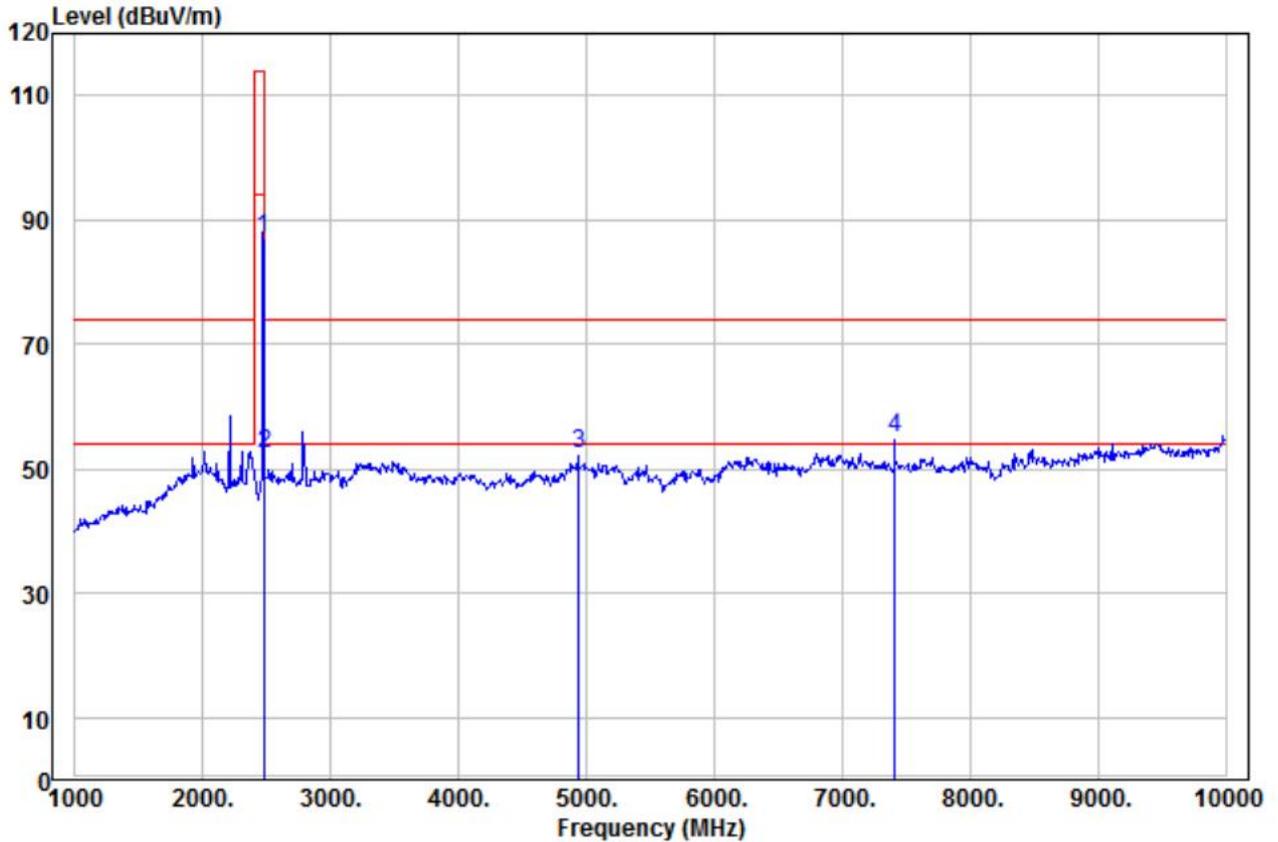


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	2472.00	90.75	-3.56	87.19	94.00	-6.81	Average	HORIZONTAL
2	2483.50	38.18	-3.53	34.65	54.00	-19.35	Average	HORIZONTAL
3	4944.00	31.87	7.03	38.90	54.00	-15.10	Average	HORIZONTAL
4	7416.00	25.56	14.12	39.68	54.00	-14.32	Average	HORIZONTAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

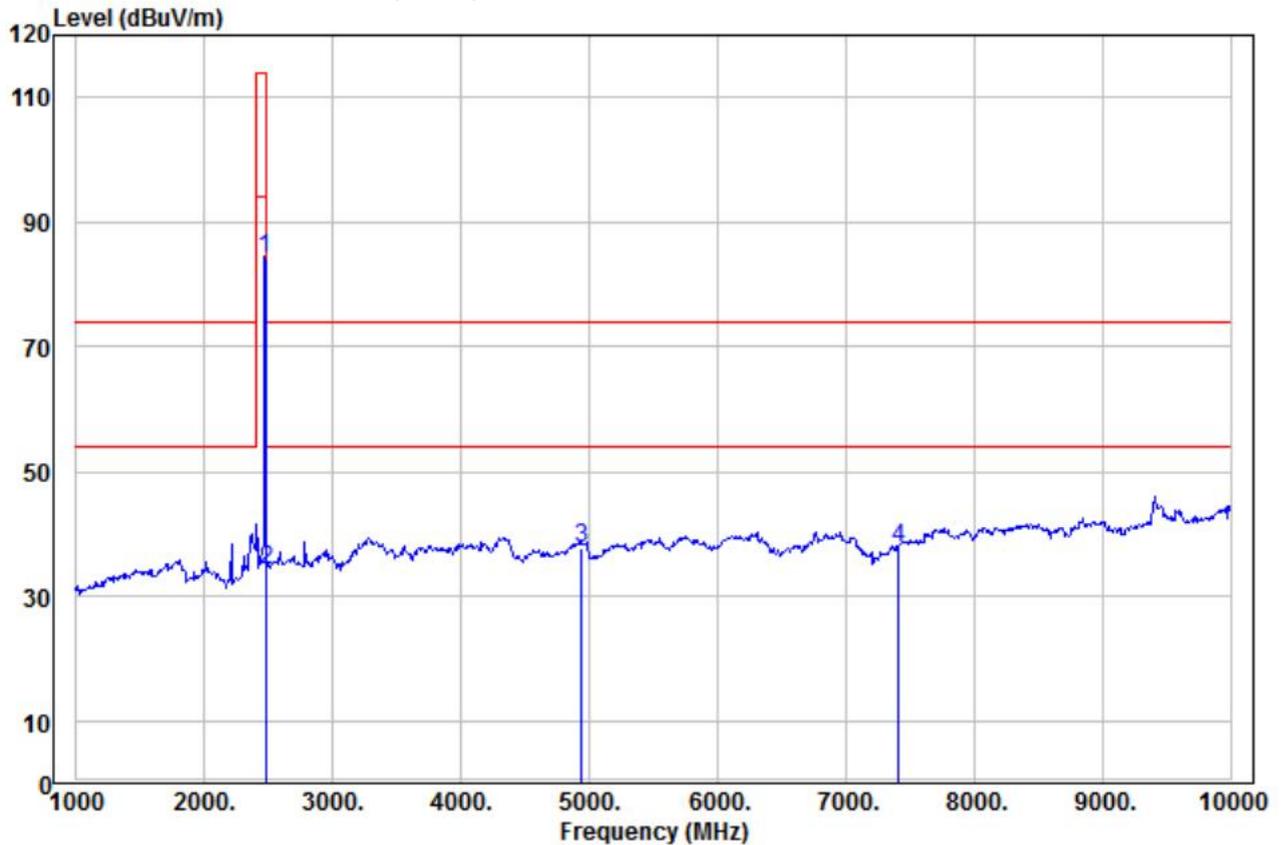


	Read Freq	Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2472.00	90.60	-3.56	87.04	114.00	-26.96	Peak	VERTICAL
2	2483.50	55.95	-3.53	52.42	74.00	-21.58	Peak	VERTICAL
3	4944.00	45.53	7.03	52.56	74.00	-21.44	Peak	VERTICAL
4	pp 7416.00	40.96	14.12	55.08	74.00	-18.92	Peak	VERTICAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383



	Read	Limit	Over					
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	2472.00	87.64	-3.56	84.08	94.00	-9.92	Average	VERTICAL
2	2483.50	37.76	-3.53	34.23	54.00	-19.77	Average	VERTICAL
3	4944.00	30.74	7.03	37.77	54.00	-16.23	Average	VERTICAL
4	7416.00	23.51	14.12	37.63	54.00	-16.37	Average	VERTICAL

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 8GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported

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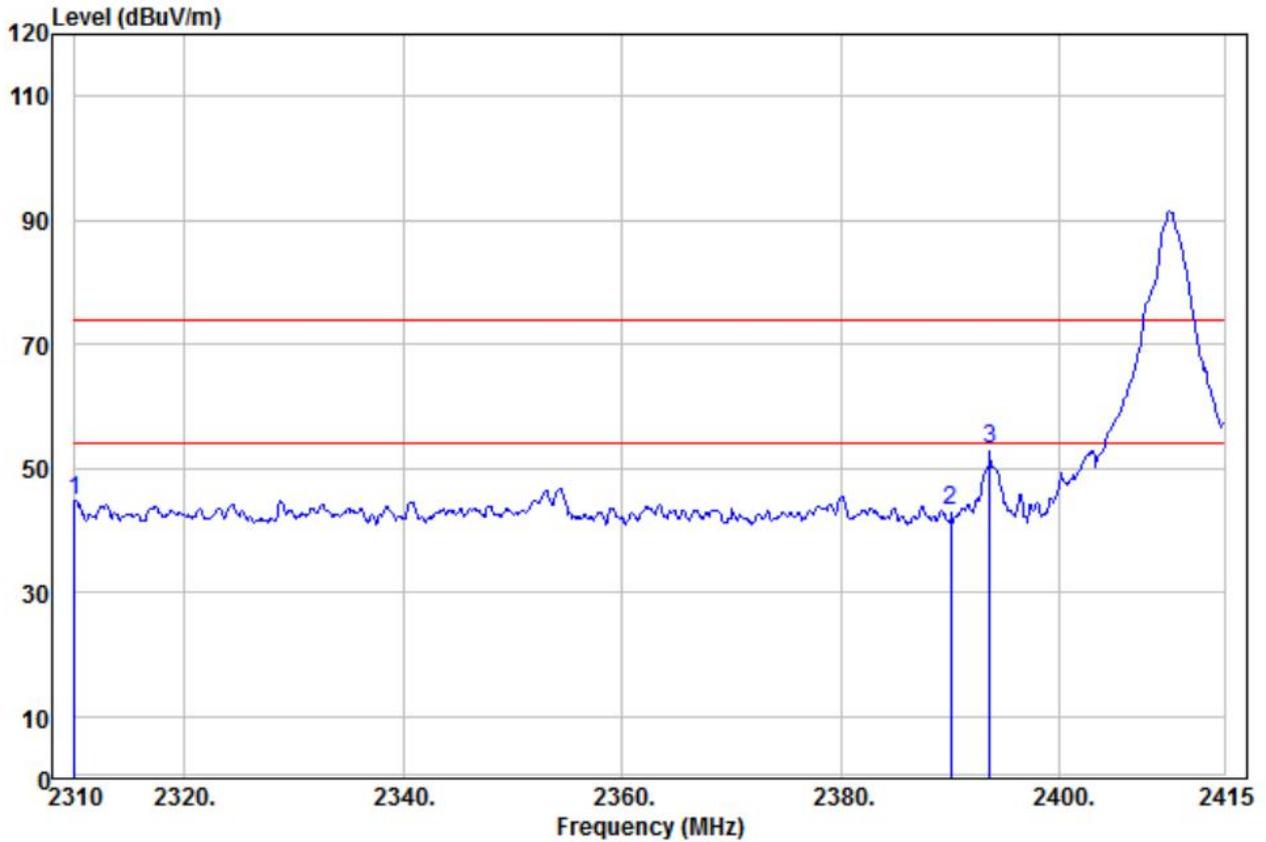


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TEST REPORT NUMBER: (8524)170-0383

band edge

2041MHz

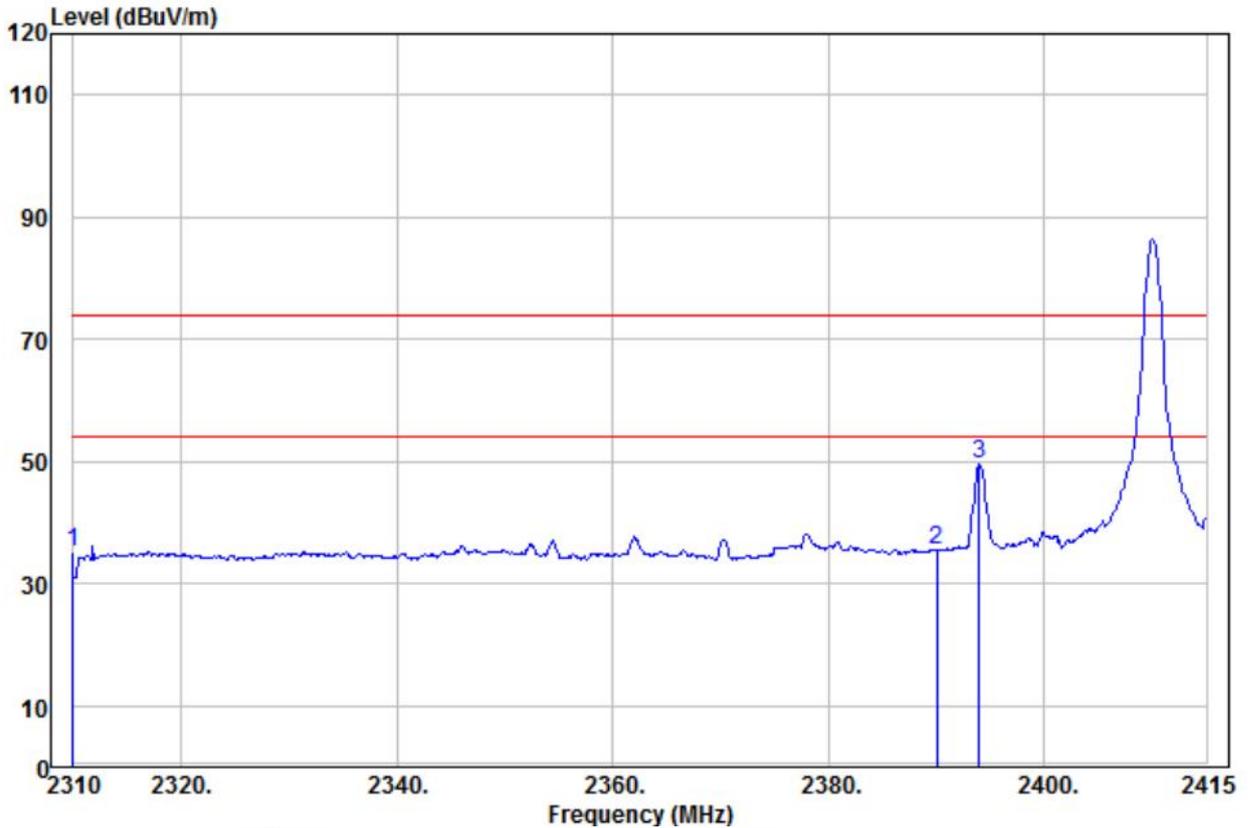


	Read Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2310.00	49.71	-4.77	44.94	74.00	-29.06	Peak	HORIZONTAL
2	2390.01	47.71	-4.37	43.34	74.00	-30.66	Peak	HORIZONTAL
3 pp	2393.58	57.72	-4.45	53.27	74.00	-20.73	Peak	HORIZONTAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

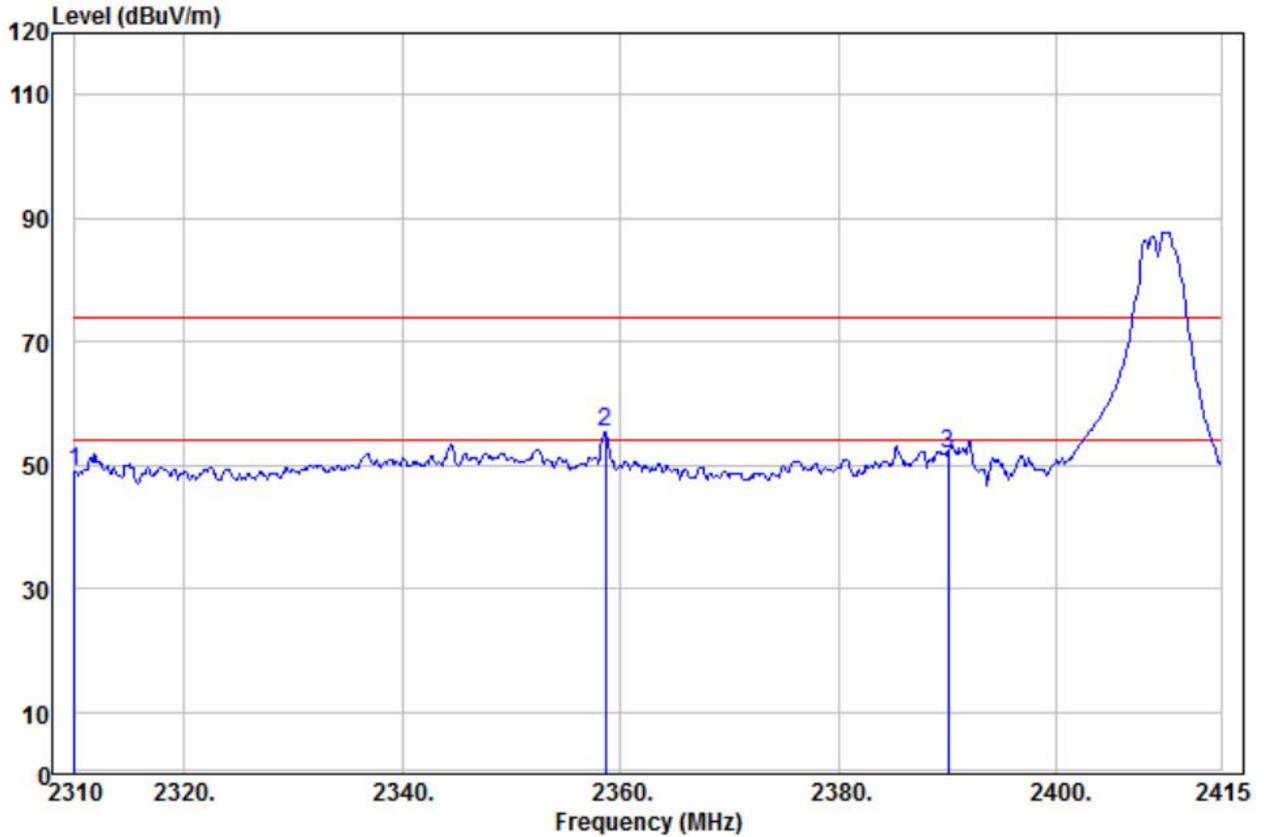


	Read Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2310.00	40.08	-4.77	35.31	54.00	-18.69	Average	HORIZONTAL
2	2390.00	39.84	-4.37	35.47	54.00	-18.53	Average	HORIZONTAL
3 pp	2394.00	53.92	-4.46	49.46	54.00	-4.54	Average	HORIZONTAL



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VERITAS**

TEST REPORT NUMBER: (8524)170-0383

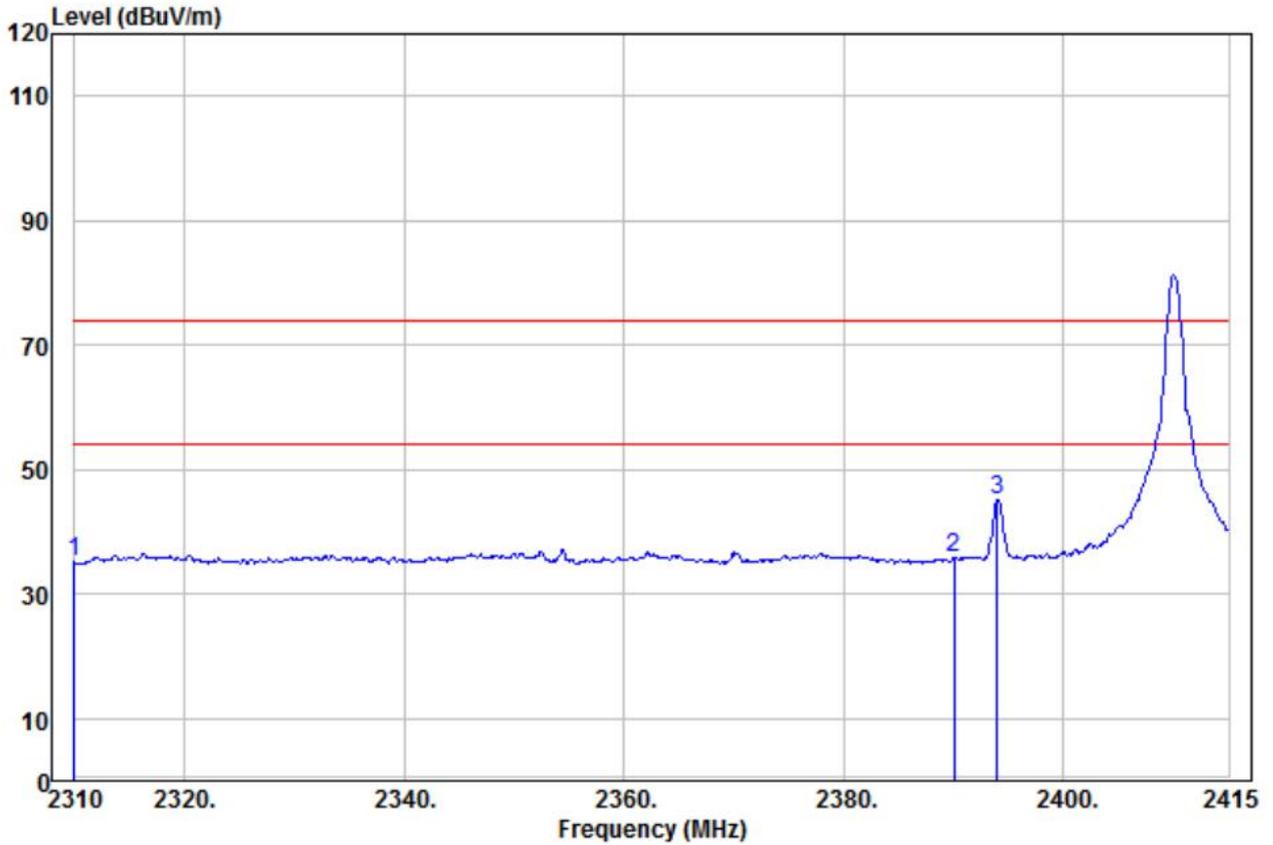


	Read Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2310.00	53.66	-4.77	48.89	74.00	-25.11	Peak	VERTICAL
2	pp 2358.62	59.81	-4.50	55.31	74.00	-18.69	Peak	VERTICAL
3	2390.00	56.28	-4.37	51.91	74.00	-22.09	Peak	VERTICAL



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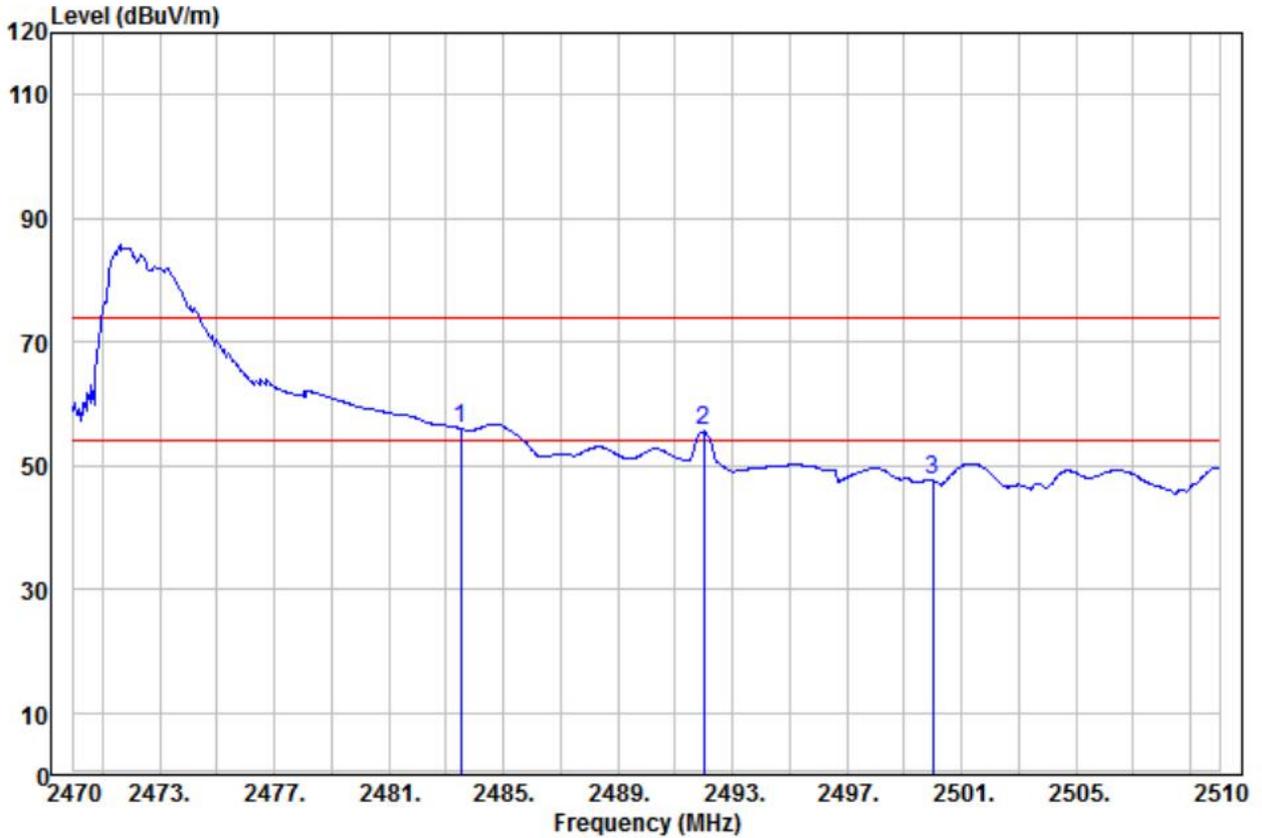
	Read Freq	Read Level	Factor	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2310.00	39.91	-4.77	35.14	54.00	-18.86	Average	VERTICAL
2	2390.00	40.09	-4.37	35.72	54.00	-18.28	Average	VERTICAL
3 pp	2394.00	49.58	-4.46	45.12	54.00	-8.88	Average	VERTICAL



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TEST REPORT NUMBER: (8524)170-0383

2472MHz

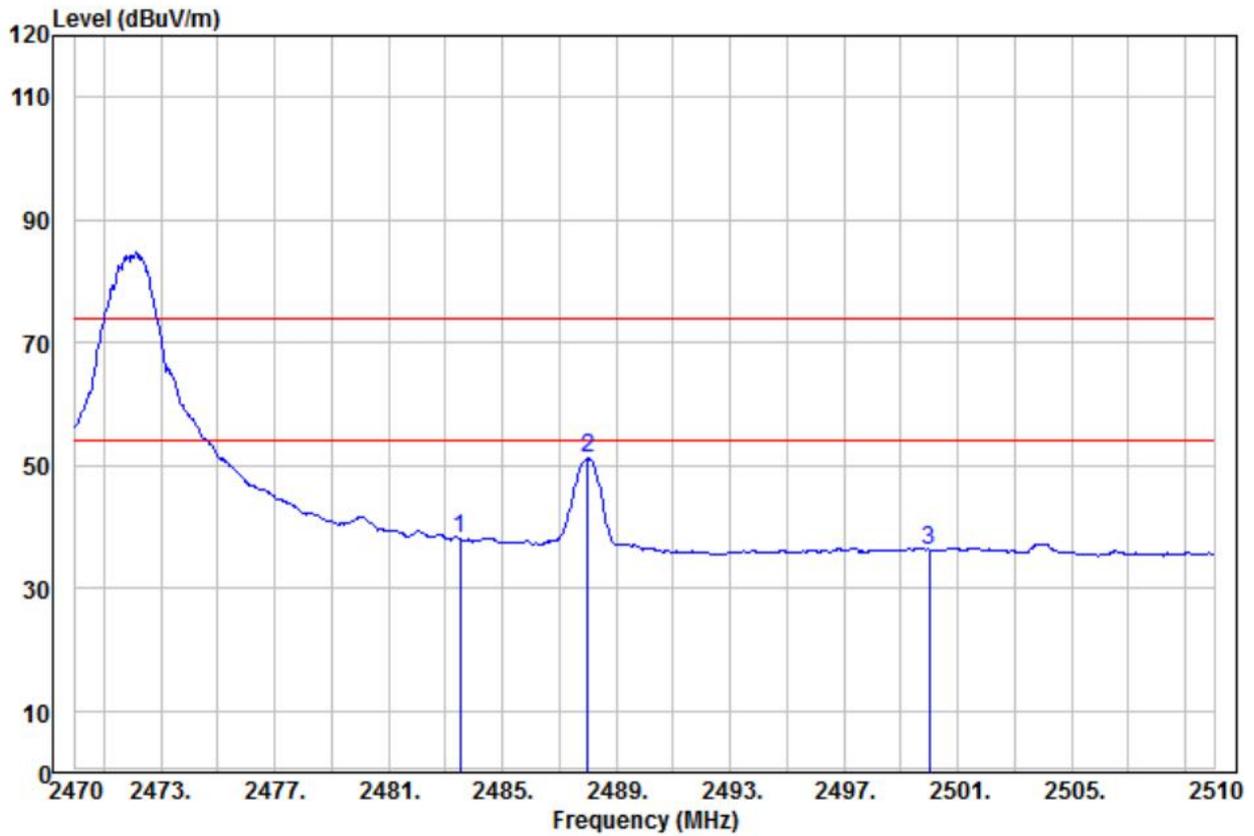


	Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	pp 2483.50	60.03	-4.09	55.94	74.00	-18.06	Peak
2	2492.00	59.46	-3.92	55.54	74.00	-18.46	Peak
3	2500.00	51.44	-3.86	47.58	74.00	-26.42	Peak



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TEST REPORT NUMBER: (8524)170-0383

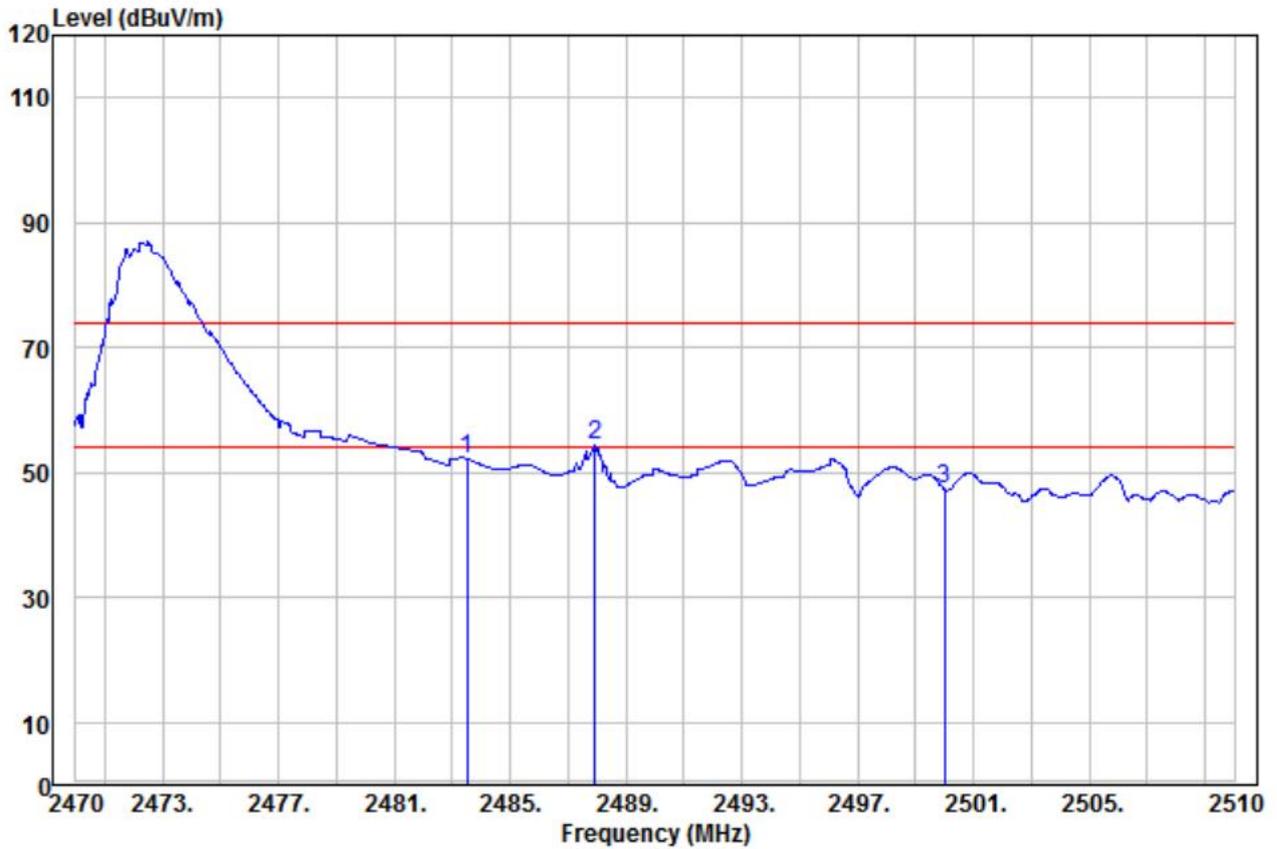


	Read		Limit	Over			
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	2483.50	42.12	-4.09	38.03	54.00	-15.97	Average HORIZONTAL
2 pp	2488.00	55.13	-3.98	51.15	54.00	-2.85	Average HORIZONTAL
3	2500.00	40.17	-3.86	36.31	54.00	-17.69	Average HORIZONTAL



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TEST REPORT NUMBER: (8524)170-0383

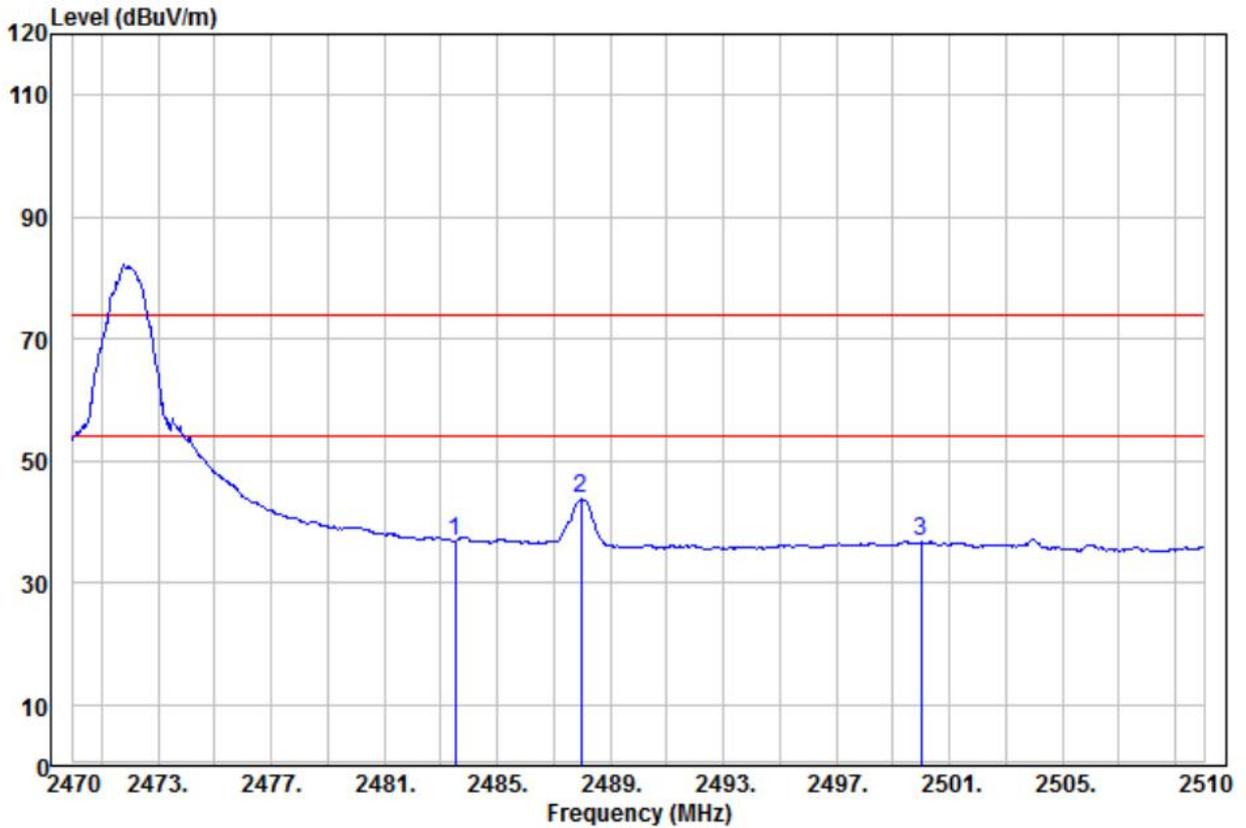


	Read	Limit	Over				
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	2483.50	56.25	-4.09	52.16	74.00	-21.84	Peak
2	2487.92	58.35	-3.98	54.37	74.00	-19.63	Peak
3	2500.00	51.15	-3.86	47.29	74.00	-26.71	Peak



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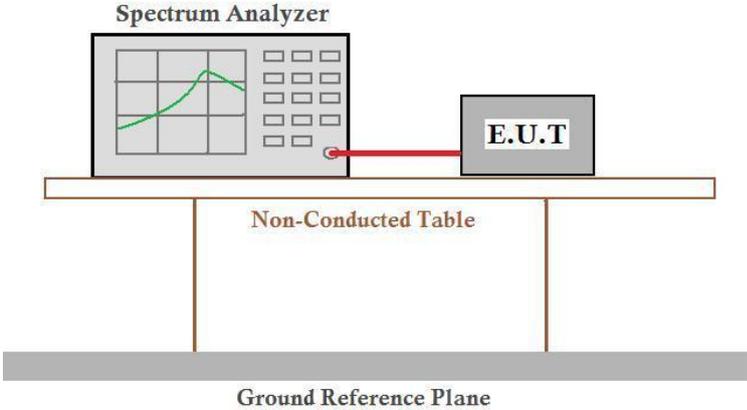
TEST REPORT NUMBER: (8524)170-0383



	Read Freq	Read Level	Factor	Limit Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	2483.50	41.03	-4.09	36.94	54.00	-17.06	Average	VERTICAL
2 pp	2487.96	47.68	-3.98	43.70	54.00	-10.30	Average	VERTICAL
3	2500.00	40.52	-3.86	36.66	54.00	-17.34	Average	VERTICAL

TEST REPORT NUMBER: (8524)170-0383

4.3 20dB Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013 & RSS-Gen Section 6.7
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	4.087	Pass
Middle	4.567	Pass
Highest	5.016	Pass

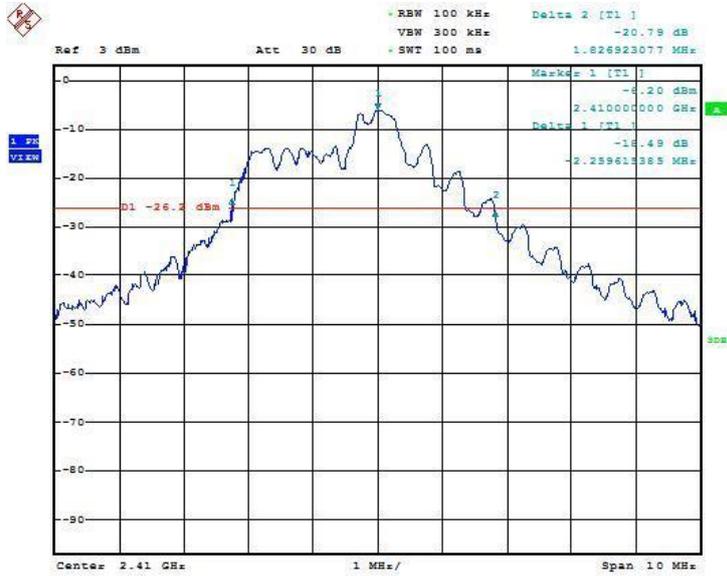


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TEST REPORT NUMBER: (8524)170-0383

Test plot as follows:

Test channel:	Lowest
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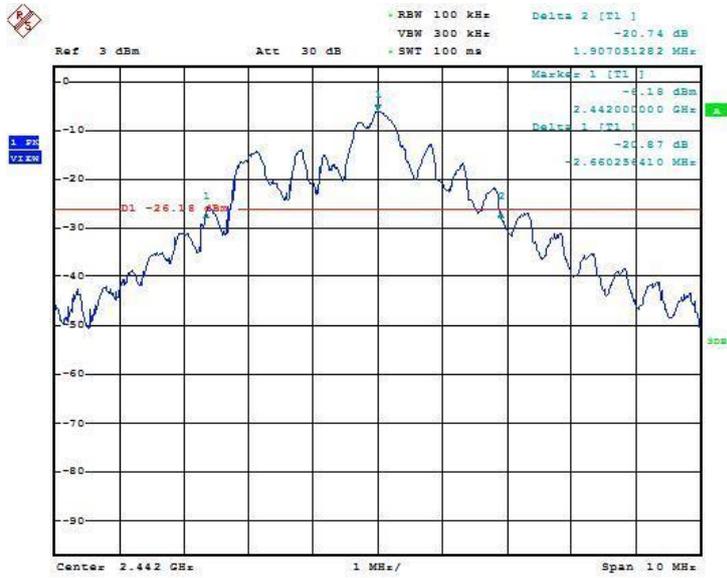
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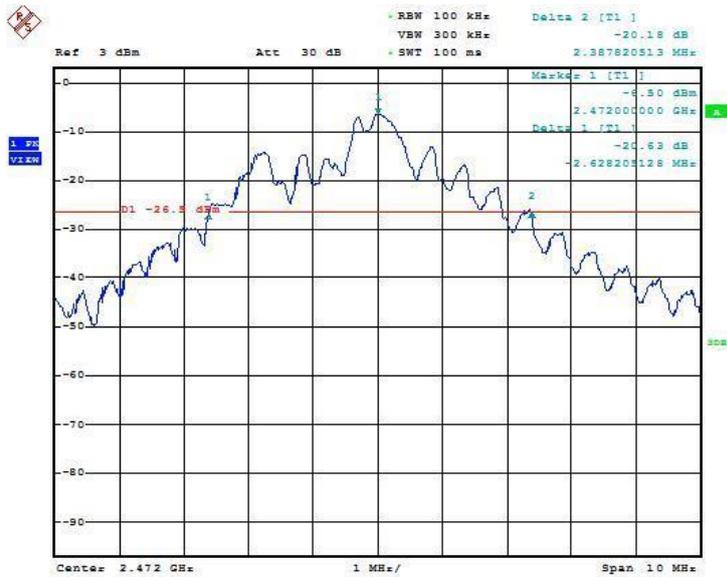
TEST REPORT NUMBER: (8524)170-0383

Test channel: Middle



Date: 20 JUN 2024 17:32:36

Test channel: Highest



Date: 20 JUN 2024 17:38:35

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TEST REPORT NUMBER: (8524)170-0383

5 Photographs

5.1 Radiated Emission Test Setup

See the Appendix 1- Test Setup Photos

5.2 EUT Constructional Details

See the Appendix 2- EUT Photos

***** END OF REPORT *****