



Report No.: TW2504014-01E

Applicant: Avantis Education Limited

Product: VR Headset

Model No.: CVR-255-64, CVR-255-32, CVR-255-64-A, CVR-355-128, CVR-355-128-M

Trademark: CLASS VR

Test Standards: FCC Part 15.247

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: May 14, 2025

Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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Special Statement:

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Avantis Education Limited
Address: Unit 2&3 Jessop Court, Waterwells Business Park, Quedgeley, Gloucester, GL2 2AP UK
Gloucester, United Kingdom

1.3 Description of EUT

Product: VR Headset
Manufacturer: Channel Electronics (M) SDN.BHD.
Address: Lot 16036, Jln Teknologi 6, Kaw. Perindustrian Tangkak, Johor, Malaysia
Brand Name: CLASS VR
Model Number: CVR-255-64
Additional Model Number: CVR-255-32, CVR-255-64-A, CVR-355-128, CVR-355-128-M
Hardware Version: EM_AX139_MB_V1.0
Software Version: qfil-cvr355128-1.0.4
Serial No.: 302VR0094J
Type of Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK for Bluetooth
Frequency range: 2402-2480MHz for Bluetooth
Channel Spacing: 1MHz for Bluetooth
Frequency Selection: By software
Channel Number: 79 channels for Bluetooth
Antenna: FPC Antenna. The gain of the antennas is 1.90dBi (Get from the antenna specification provided the manufacturer)
Rating: Input: DC5.0V, 2.4A
Battery: DC3.8V, 4000mAh Li-ion battery

1.4 Submitted Sample: 3 Samples

1.5 Test Duration

2025-04-16 to 2025-05-13

1.6 Test Uncertainty

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Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB
Conducted Power Uncertainty =6.0dB
Occupied Channel Bandwidth Uncertainty =5%

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	PASS	Complies
Carrier Frequency Separation	15.247(a)(1)	PASS	Complies
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	PASS	Complies
Conducted Emissions	15.207(a), 15.107	PASS	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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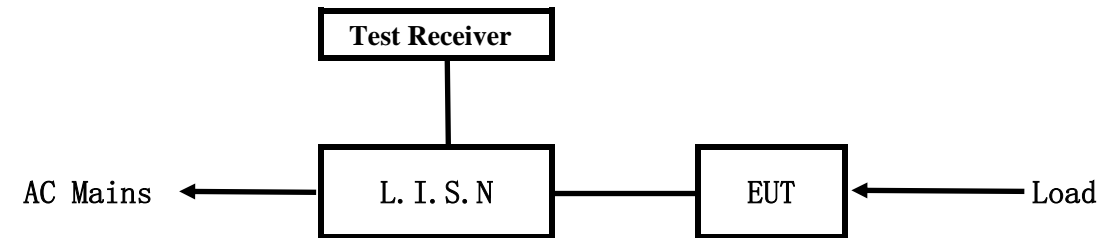
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5. Power Line Conducted Emission Test

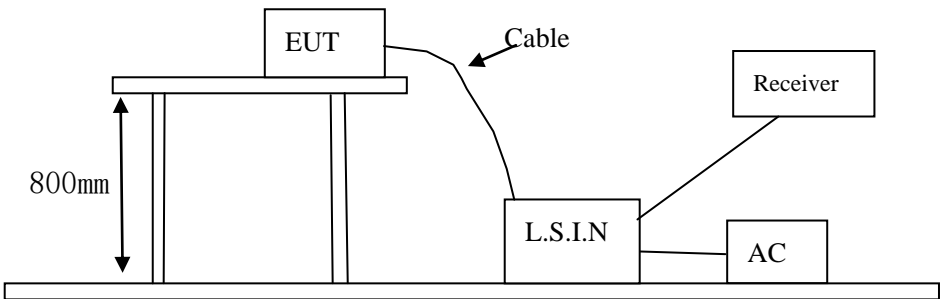
5.1 Schematics of the test



EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013.
Test Voltage: 120V~ 60Hz
Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

Device	Manufacturer	Model	FCC ID
VR Headset	Channel Electronics (M) SDN.BHD.	CVR-255-64, CVR-255-32, CVR-255-64-A, CVR-355-128, CVR-355-128-M	2BNWDCVR-355-128M

B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A; Output: DC5V, 3A; 5-20A; 6.2- 3.25A(67W Max)

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

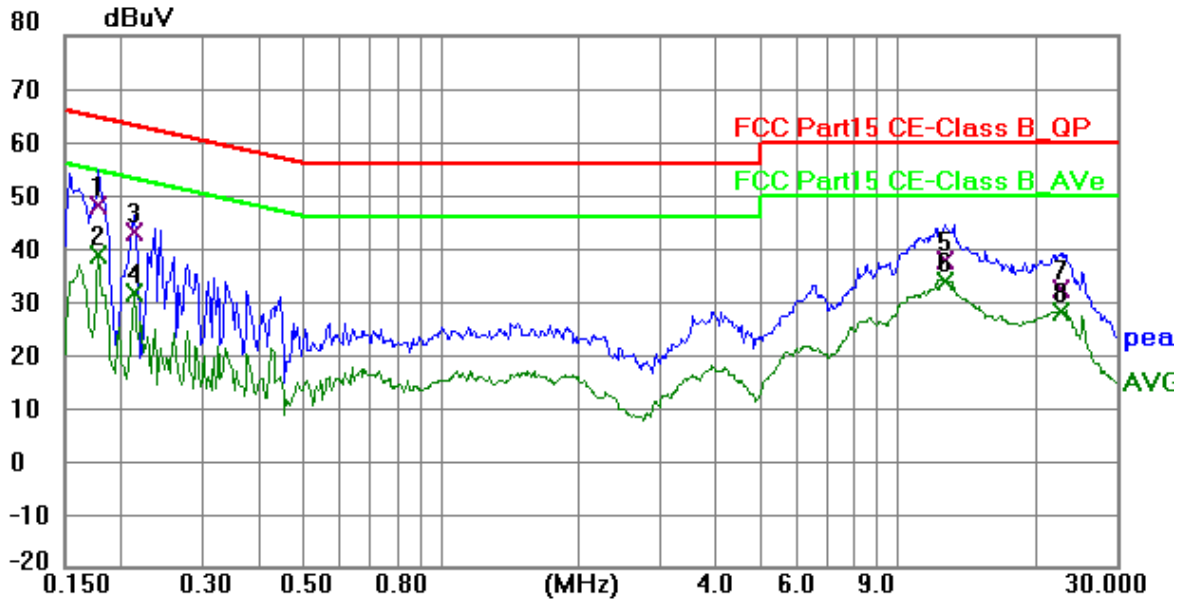
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1773	37.75	10.33	48.08	64.61	-16.53	QP	P
2	0.1773	28.55	10.33	38.88	54.61	-15.73	AVG	P
3	0.2124	32.82	10.32	43.14	63.11	-19.97	QP	P
4	0.2124	21.11	10.32	31.43	53.11	-21.68	AVG	P
5	12.5901	23.24	14.50	37.74	60.00	-22.26	QP	P
6	12.5901	19.34	14.50	33.84	50.00	-16.16	AVG	P
7	22.7028	16.31	15.85	32.16	60.00	-27.84	QP	P
8	22.7028	12.33	15.85	28.18	50.00	-21.82	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

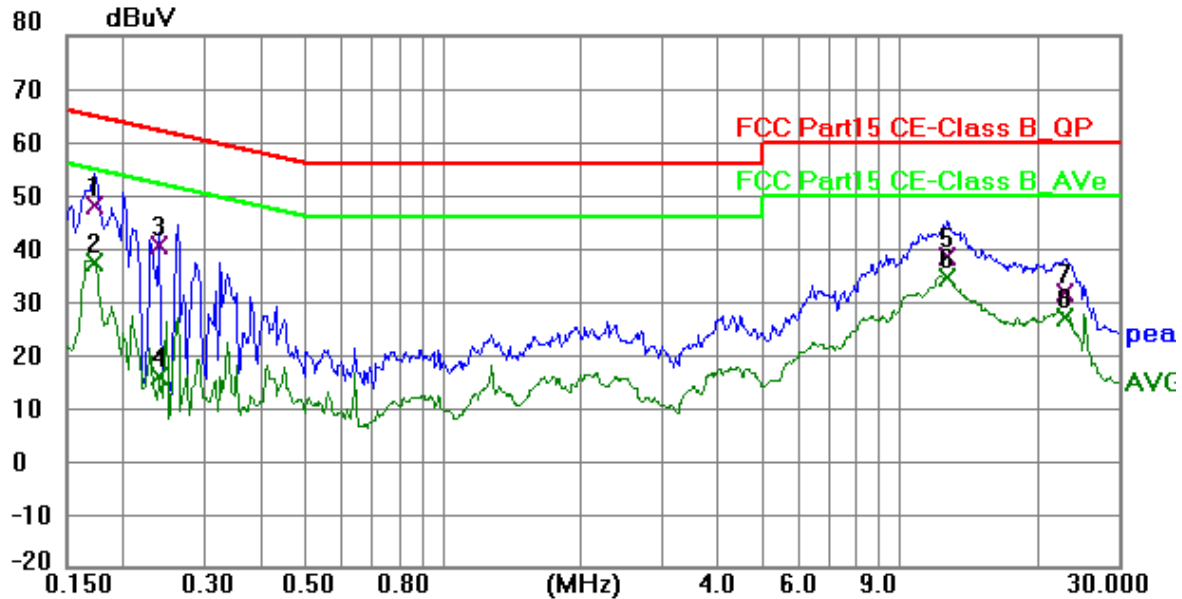
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1734	37.75	10.33	48.08	64.80	-16.72	QP	P
2	0.1734	26.97	10.33	37.30	54.80	-17.50	AVG	P
3	0.2397	30.13	10.33	40.46	62.11	-21.65	QP	P
4	0.2397	5.72	10.33	16.05	52.11	-36.06	AVG	P
5	12.6876	23.86	14.52	38.38	60.00	-21.62	QP	P
6	12.6876	20.12	14.52	34.64	50.00	-15.36	AVG	P
7	22.8627	15.80	15.81	31.61	60.00	-28.39	QP	P
8	22.8627	11.03	15.81	26.84	50.00	-23.16	AVG	P

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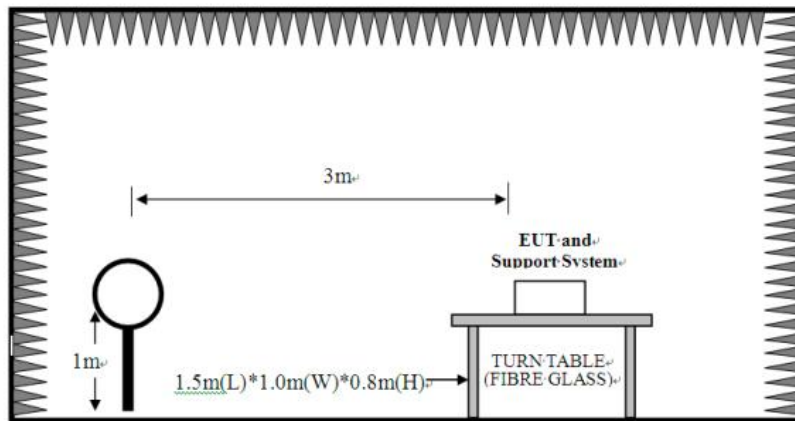
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



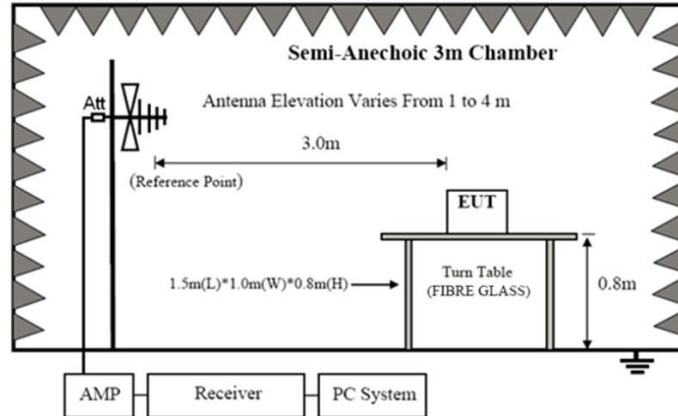
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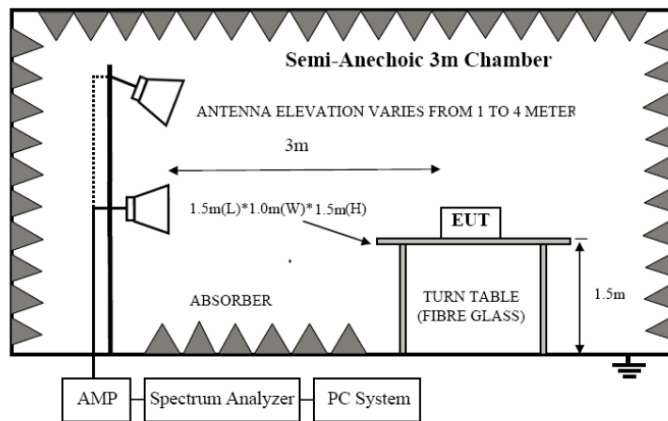
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. GFSK was the worst case because it has highest output power
 5. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 6. Battery was fully charged during test

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: **Pass**

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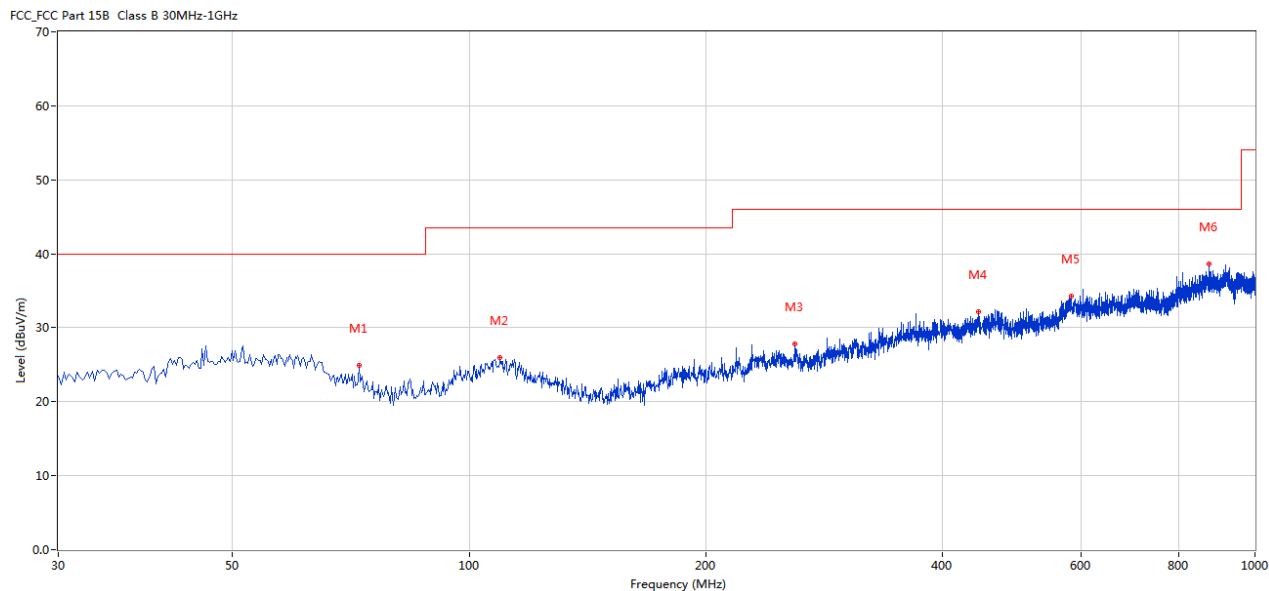
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	72.427	24.90	-8.13	40.0	15.10	Peak	314.00	100	Horizontal	Pass
2	109.520	25.93	-5.98	43.5	17.57	Peak	250.00	100	Horizontal	Pass
3	259.833	27.79	-4.77	46.0	18.21	Peak	171.00	100	Horizontal	Pass
4	445.056	32.15	-0.90	46.0	13.85	Peak	105.00	100	Horizontal	Pass
5	584.216	34.29	1.69	46.0	11.71	Peak	287.00	100	Horizontal	Pass
6	874.659	38.64	4.97	46.0	7.36	Peak	181.00	100	Horizontal	Pass

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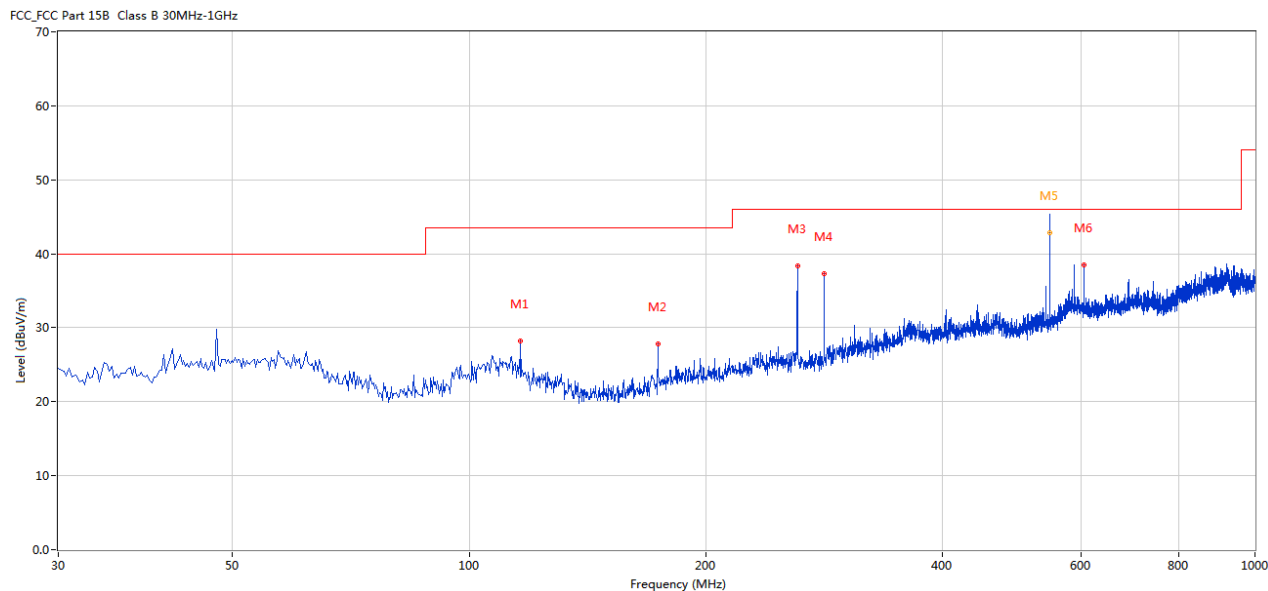
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	116.308	28.20	-7.10	43.5	15.30	Peak	67.00	100	Vertical	Pass
2	173.767	27.83	-8.54	43.5	15.67	Peak	54.00	100	Vertical	Pass
3	261.772	38.33	-5.02	46.0	7.67	Peak	67.00	100	Vertical	Pass
4	282.864	37.27	-4.95	46.0	8.73	Peak	63.00	100	Vertical	Pass
5*	547.851	42.79	-0.32	46.0	3.21	QP	324.00	100	Vertical	Pass
6	606.036	38.53	1.50	46.0	7.47	Peak	51.00	100	Vertical	Pass

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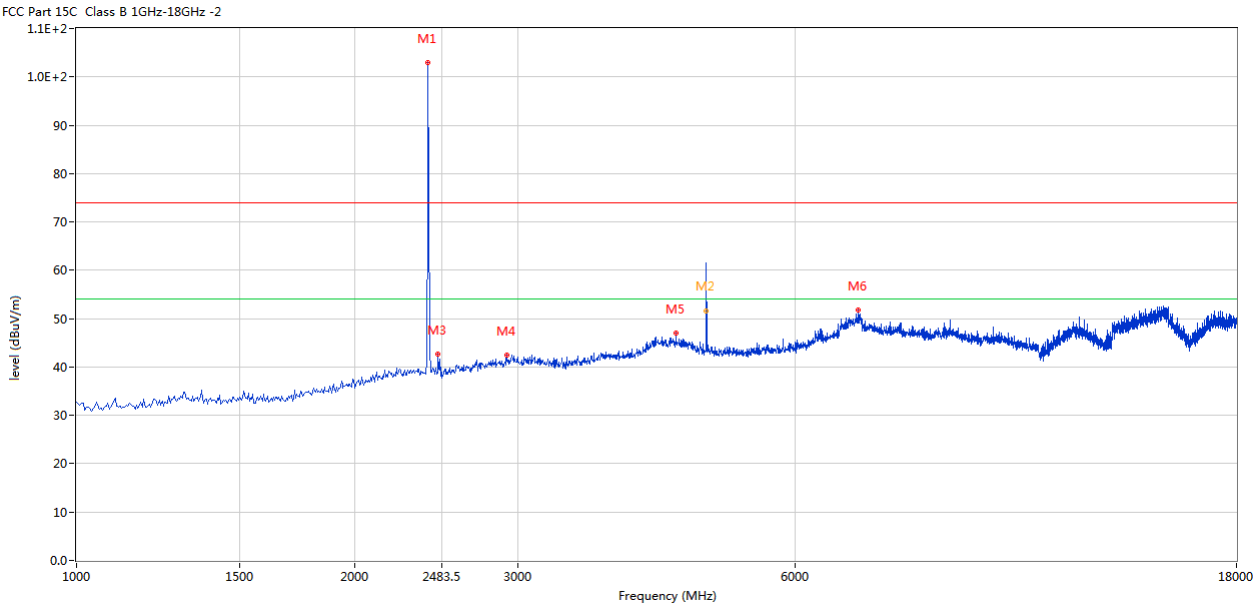
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Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	102.86	-3.57	74.0	28.86	Peak	89.00	100	Horizontal	N/A
2	4802.799	61.63	3.12	74.0	-12.37	Peak	100.00	100	Horizontal	Pass
2**	4802.799	51.60	3.12	54.0	-2.40	AV	100.00	100	Horizontal	Pass
3	2461.635	42.62	-3.57	74.0	-31.38	Peak	116.00	100	Horizontal	Pass
4	2920.520	42.54	-2.67	74.0	-31.46	Peak	355.00	100	Horizontal	Pass
5	4454.386	46.97	2.11	74.0	-27.03	Peak	293.00	100	Horizontal	Pass
6	7203.449	54.84	8.08	74.0	-19.16	Peak	164.00	100	Horizontal	Pass

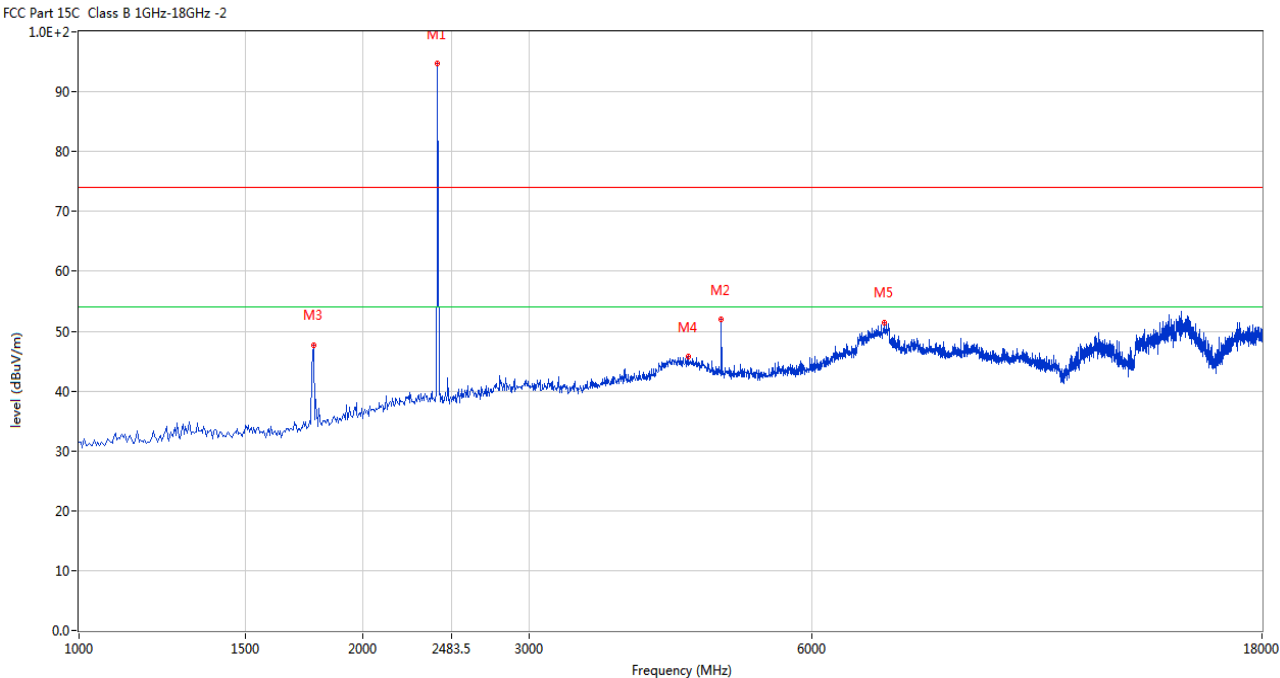
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	94.70	-3.57	74.0	20.70	Peak	212.00	100	Vertical	N/A
2	4802.799	51.95	3.12	74.0	-22.05	Peak	196.00	100	Vertical	Pass
3	1773.307	47.65	-7.02	74.0	-26.35	Peak	99.00	100	Vertical	Pass
4	4428.893	45.75	2.06	74.0	-28.25	Peak	296.00	100	Vertical	Pass
5	7156.711	51.49	8.07	74.0	-22.51	Peak	0.00	100	Vertical	Pass

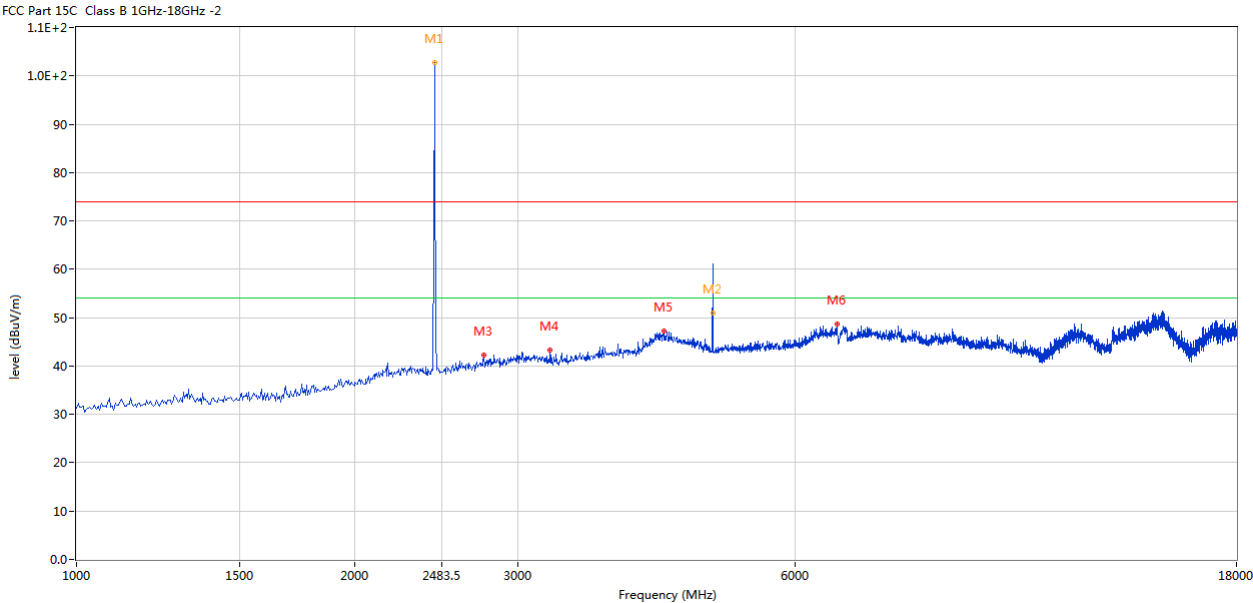
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Middle Channel: Horizontal

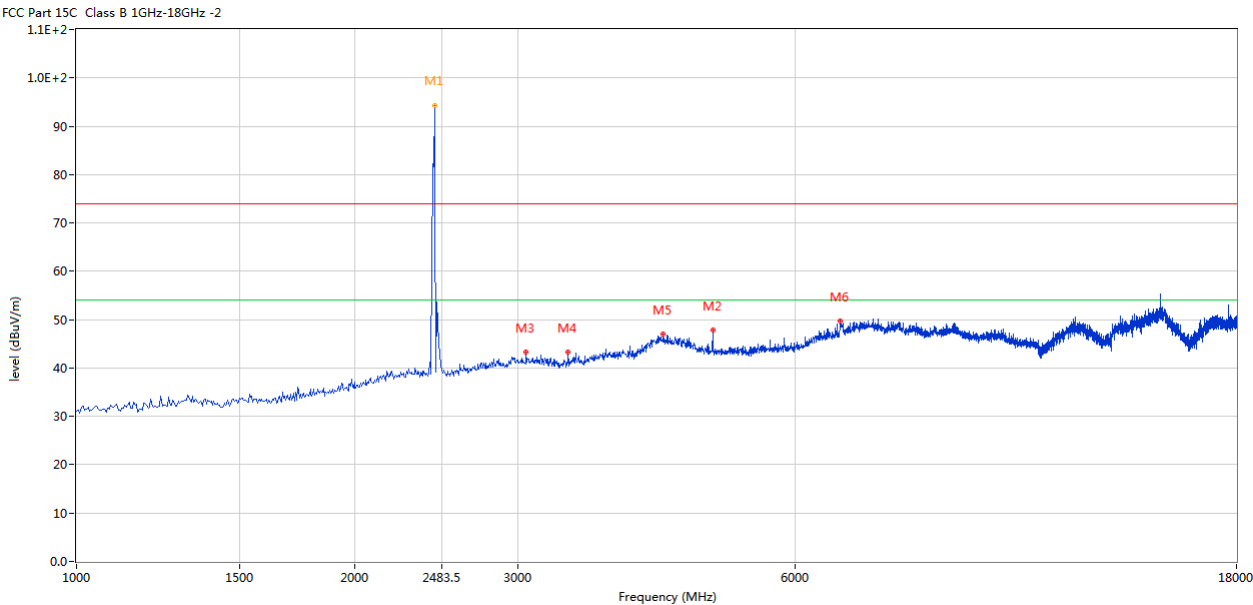


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	102.82	-3.57	74.0	28.82	Peak	255.00	100	Horizontal	N/A
2	4883.529	61.06	3.20	74.0	-12.94	Peak	255.00	100	Horizontal	Pass
2**	4883.529	50.98	3.20	54.0	-3.02	AV	255.00	100	Horizontal	Pass
3	2759.060	42.29	-2.80	74.0	-31.71	Peak	135.00	100	Horizontal	Pass
4	3256.186	43.24	-2.05	74.0	-30.76	Peak	313.00	100	Horizontal	Pass
5	4326.918	47.29	1.88	74.0	-26.71	Peak	323.00	100	Horizontal	Pass
6	6655.336	48.70	6.46	74.0	-25.30	Peak	272.00	100	Horizontal	Pass

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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2441	94.27	-3.57	74.0	20.27	Peak	274.00	100	Vertical	N/A
2	4883.529	47.93	3.20	74.0	-26.07	Peak	218.00	100	Vertical	Pass
3	3064.984	43.20	-2.35	74.0	-30.80	Peak	351.00	100	Vertical	Pass
4	3404.899	43.19	-1.76	74.0	-30.81	Peak	360.00	100	Vertical	Pass
5	4314.171	47.04	1.86	74.0	-26.96	Peak	68.00	100	Vertical	Pass
6	6702.074	49.77	6.67	74.0	-24.23	Peak	299.00	100	Vertical	Pass

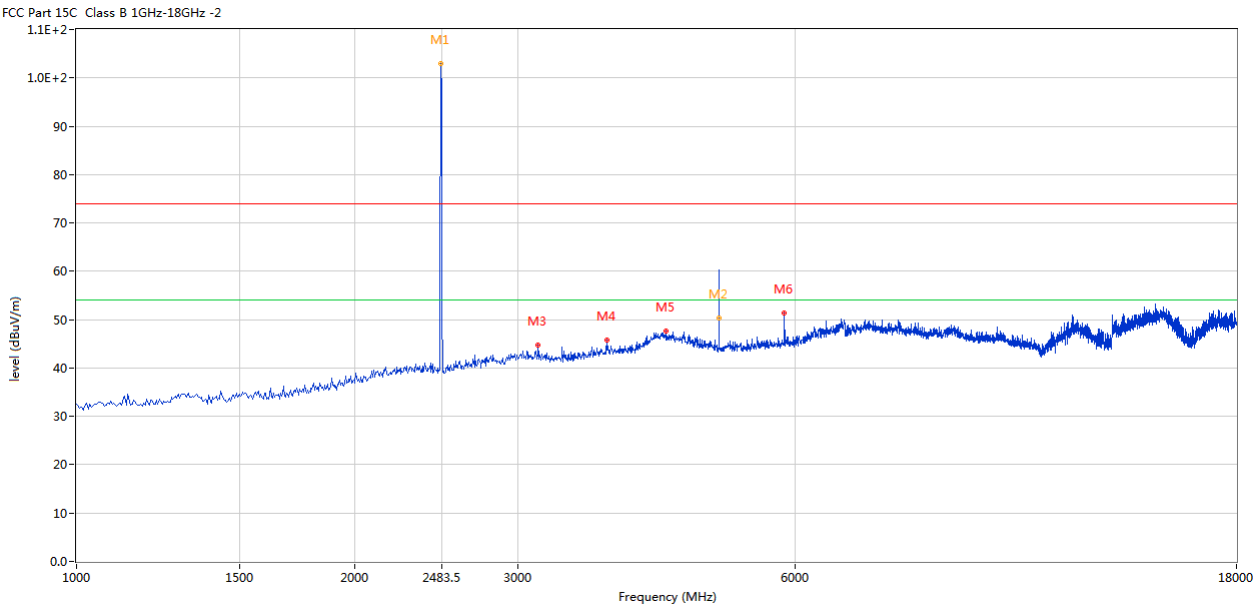
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	103.01	-3.57	74.0	29.01	Peak	267.00	100	Horizontal	N/A
2	4960.010	60.29	3.36	74.0	-13.71	Peak	272.00	100	Horizontal	Pass
2**	4960.010	50.25	3.36	54.0	-3.75	AV	272.00	100	Horizontal	Pass
3	3158.460	44.79	-2.06	74.0	-29.21	Peak	241.00	100	Horizontal	Pass
4	3749.063	45.69	0.04	74.0	-28.31	Peak	174.00	100	Horizontal	Pass
5	4348.163	47.56	1.92	74.0	-26.44	Peak	33.00	100	Horizontal	Pass
6	5835.291	51.28	3.82	74.0	-22.72	Peak	336.00	100	Horizontal	Pass

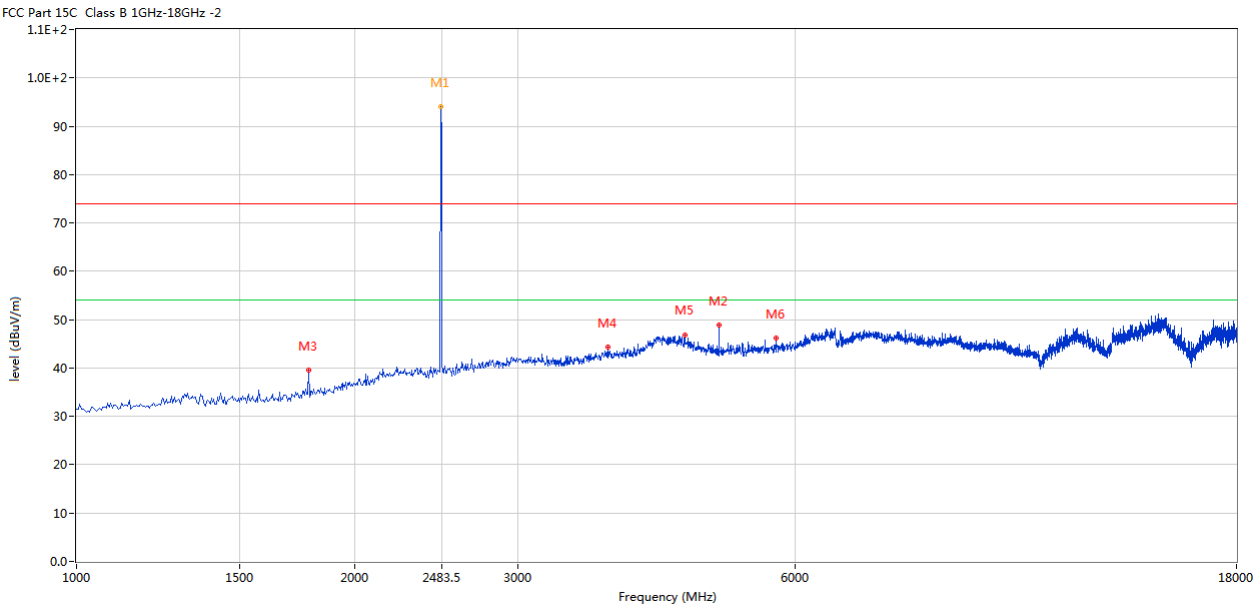
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	94.05	-3.57	74.0	20.05	Peak	195.00	100	Vertical	N/A
2	4960.010	48.80	3.36	74.0	-25.20	Peak	201.00	100	Vertical	Pass
3	1781.805	39.67	-6.95	74.0	-34.33	Peak	104.00	100	Vertical	Pass
4	3761.810	44.26	0.11	74.0	-29.74	Peak	47.00	100	Vertical	Pass
5	4552.112	46.91	2.39	74.0	-27.09	Peak	355.00	100	Vertical	Pass
6	5716.321	46.13	3.83	74.0	-27.87	Peak	84.00	100	Vertical	Pass

Note: 1. for the radiated emissions above 18G and below 30MHz, it is the floor noise.

2. the measured PK radiated emissions level less than the AV limit, so no necessary to take down the AV result

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7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = 3MHz, RBW = 30 kHz, VBW = 100 kHz, Sweep = auto Detector function = peak, Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	858	--	Pass
Middle	2441	876	--	Pass
High	2480	852	--	Pass

The report refers only to the sample tested and does not apply to the bulk.

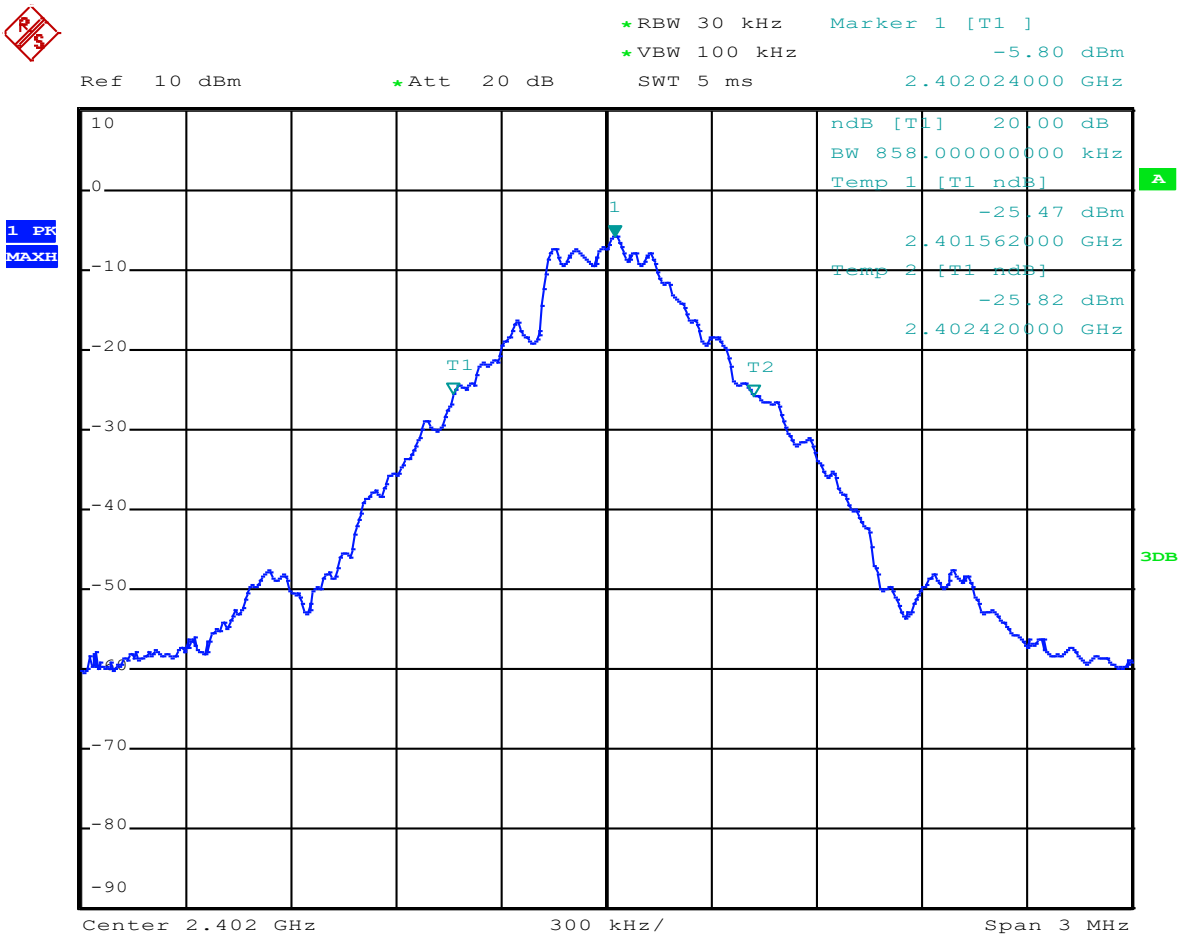
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Test Figure:

1. Condition: Low Channel

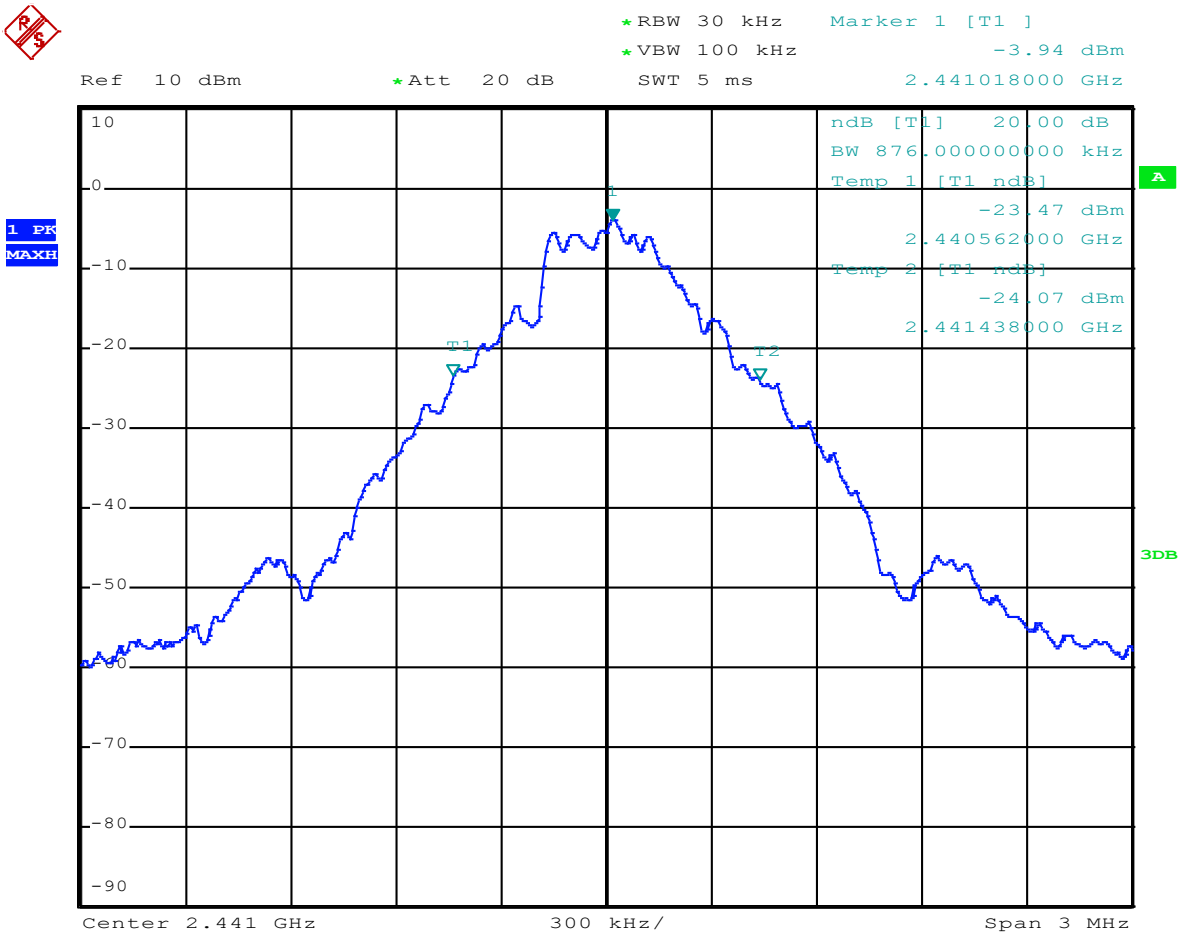


Date: 7.MAY.2025 10:36:02

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2. Condition: Middle Channel

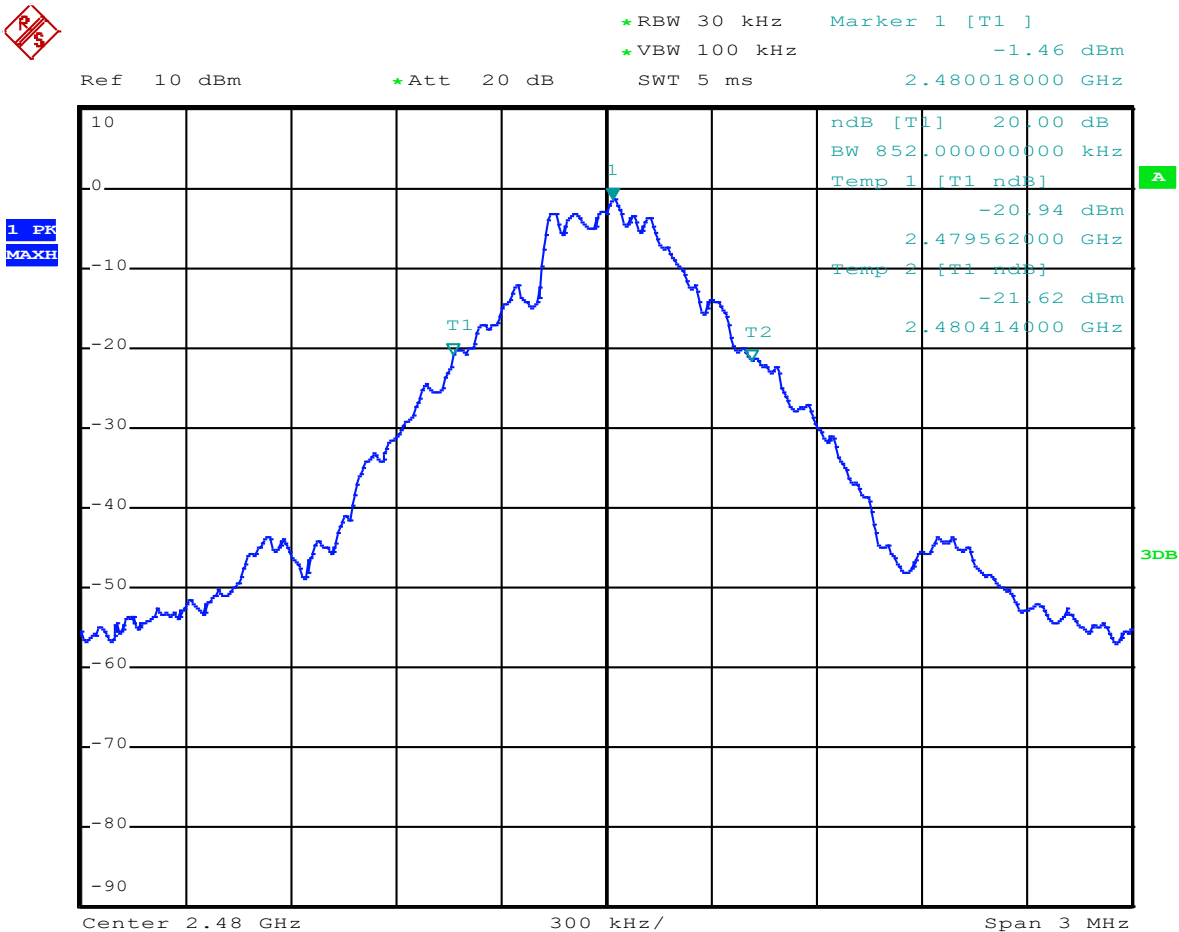


Date: 7.MAY.2025 10:44:06

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3. High Channel



Date: 7.MAY.2025 10:46:18

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Test Result

Type of Modulation: $\pi/4$ DQPSK

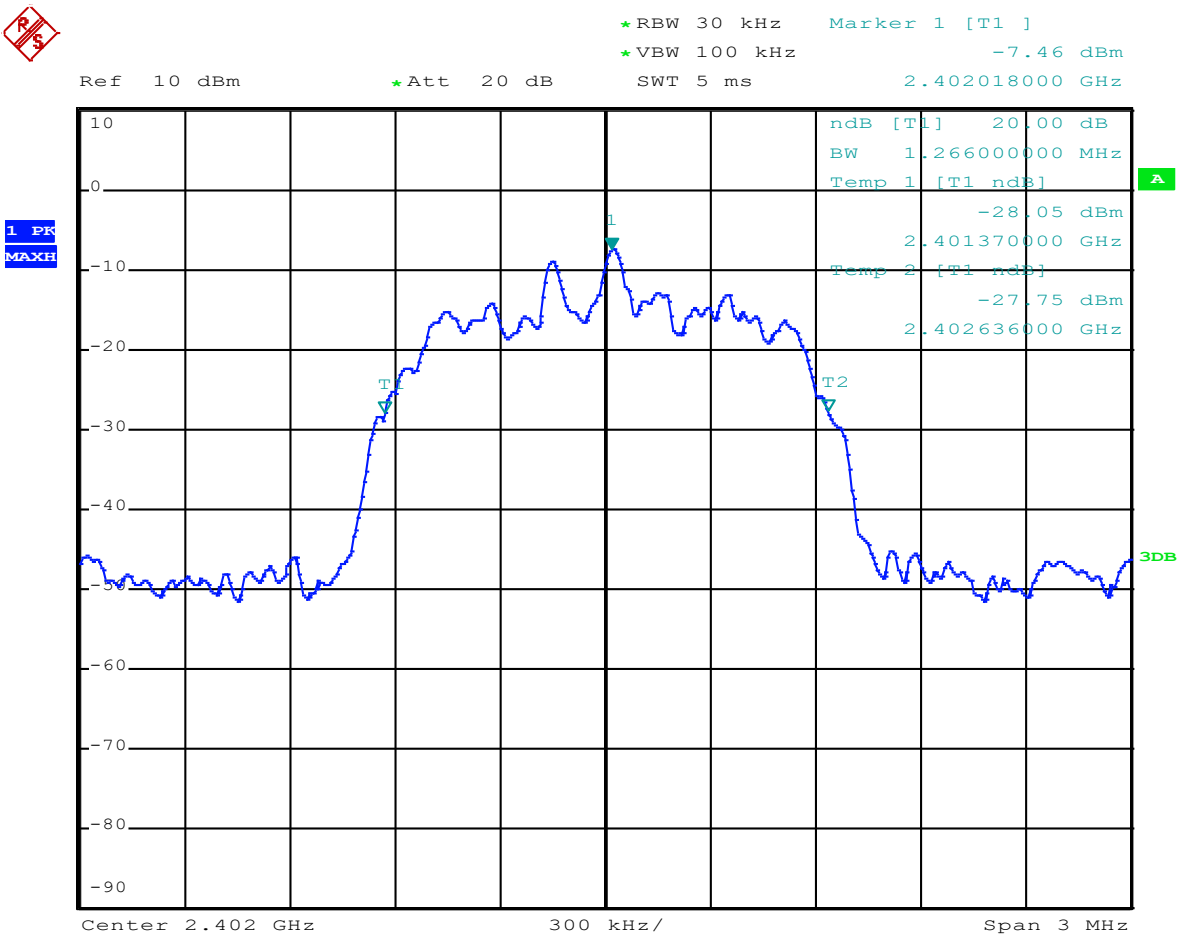
EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1266	--	Pass
Middle	2441	1260	--	Pass
High	2480	1266	--	Pass

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Test Figure:

1. Condition: Low Channel

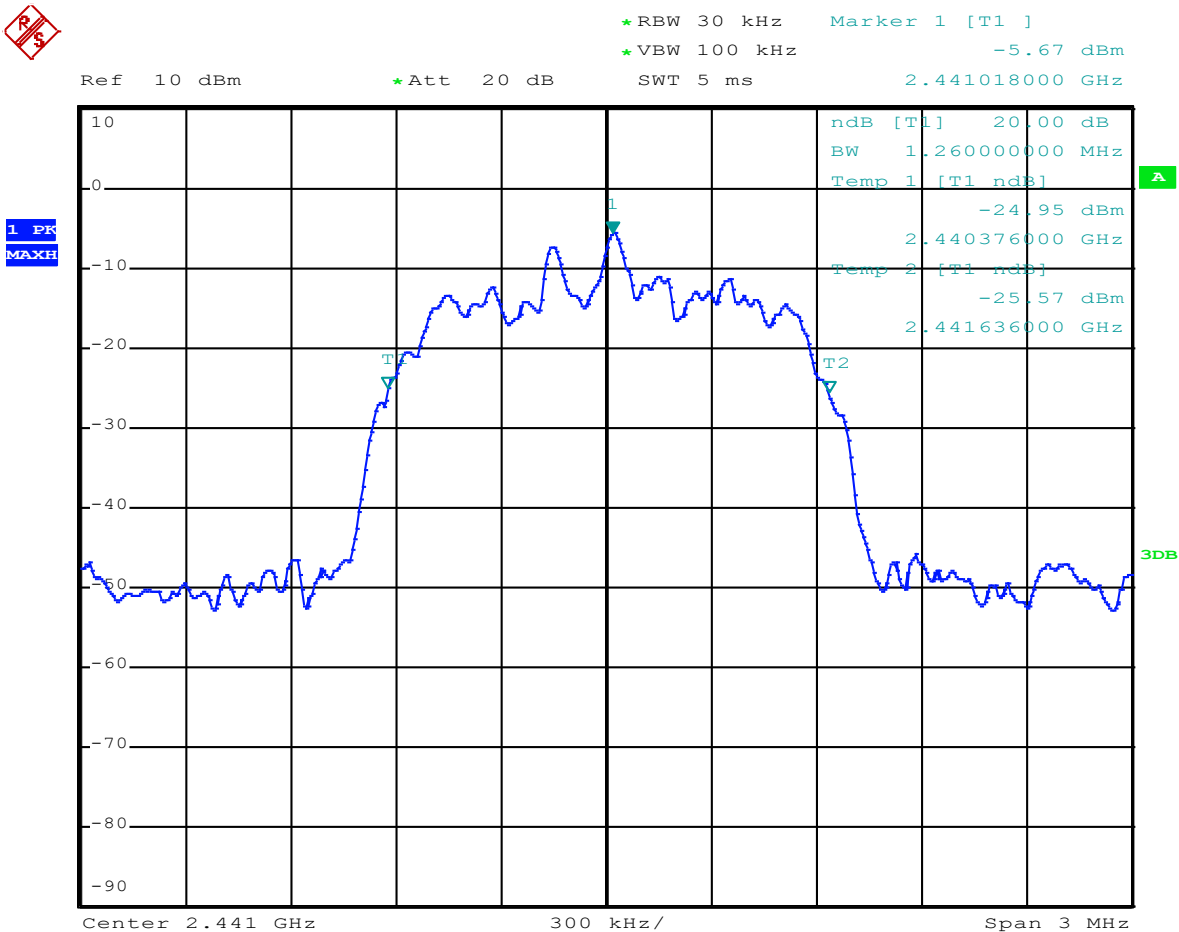


Date: 7.MAY.2025 11:00:36

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2. Condition: Middle Channel

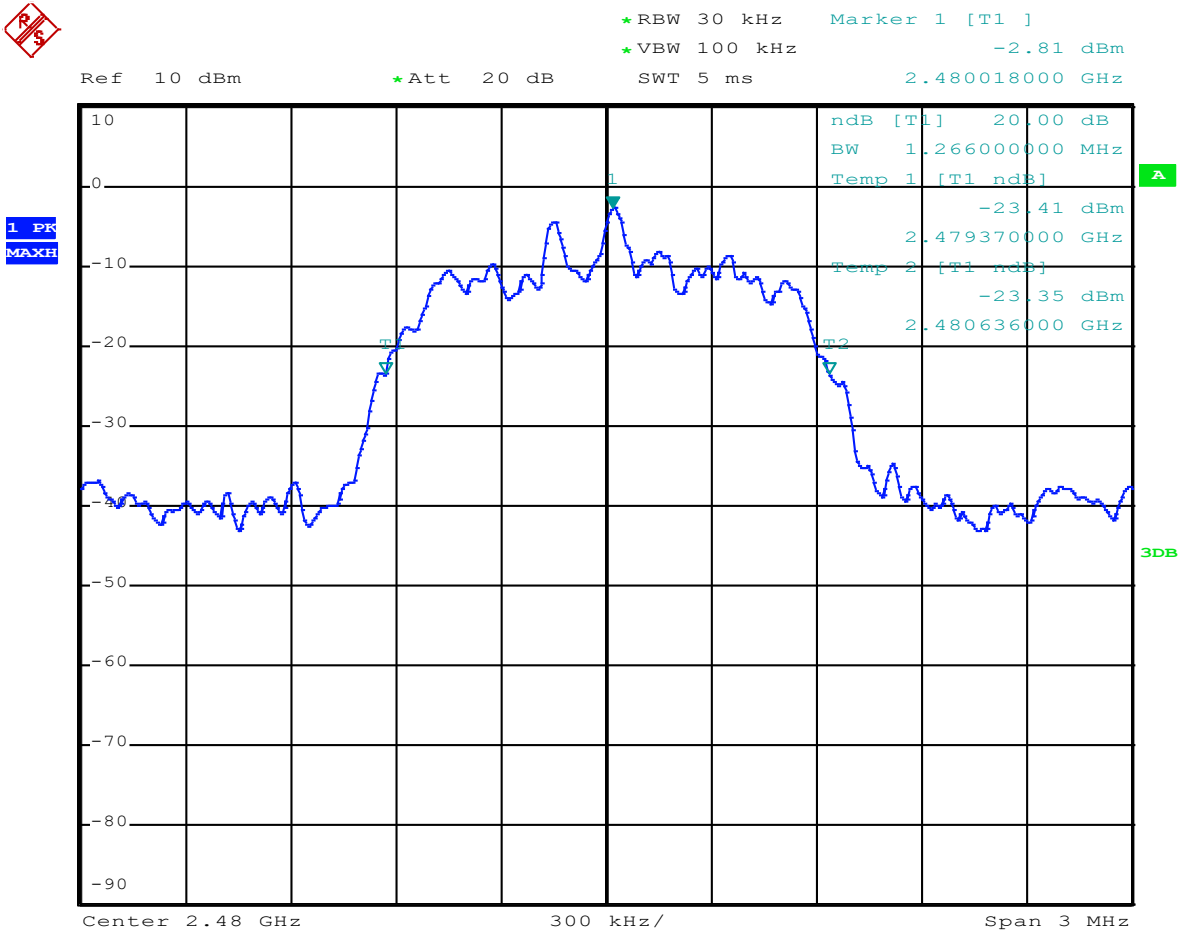


Date: 7.MAY.2025 10:55:27

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3. High Channel



Date: 7.MAY.2025 10:53:53

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Test Result
Type of Modulation: 8DPSK

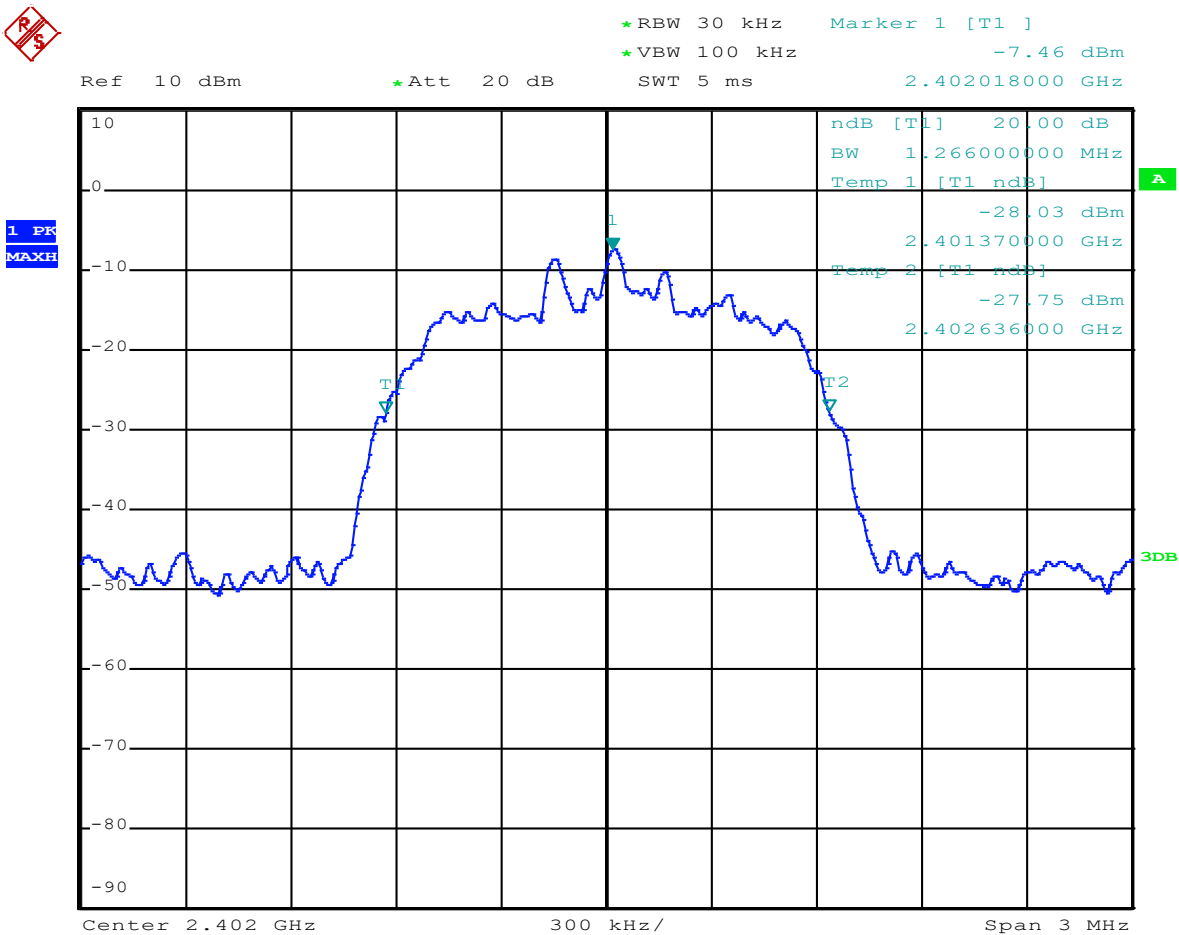
EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1266	--	Pass
Middle	2441	1230	--	Pass
High	2480	1230	--	Pass

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Test Figure:

1. Condition: Low Channel

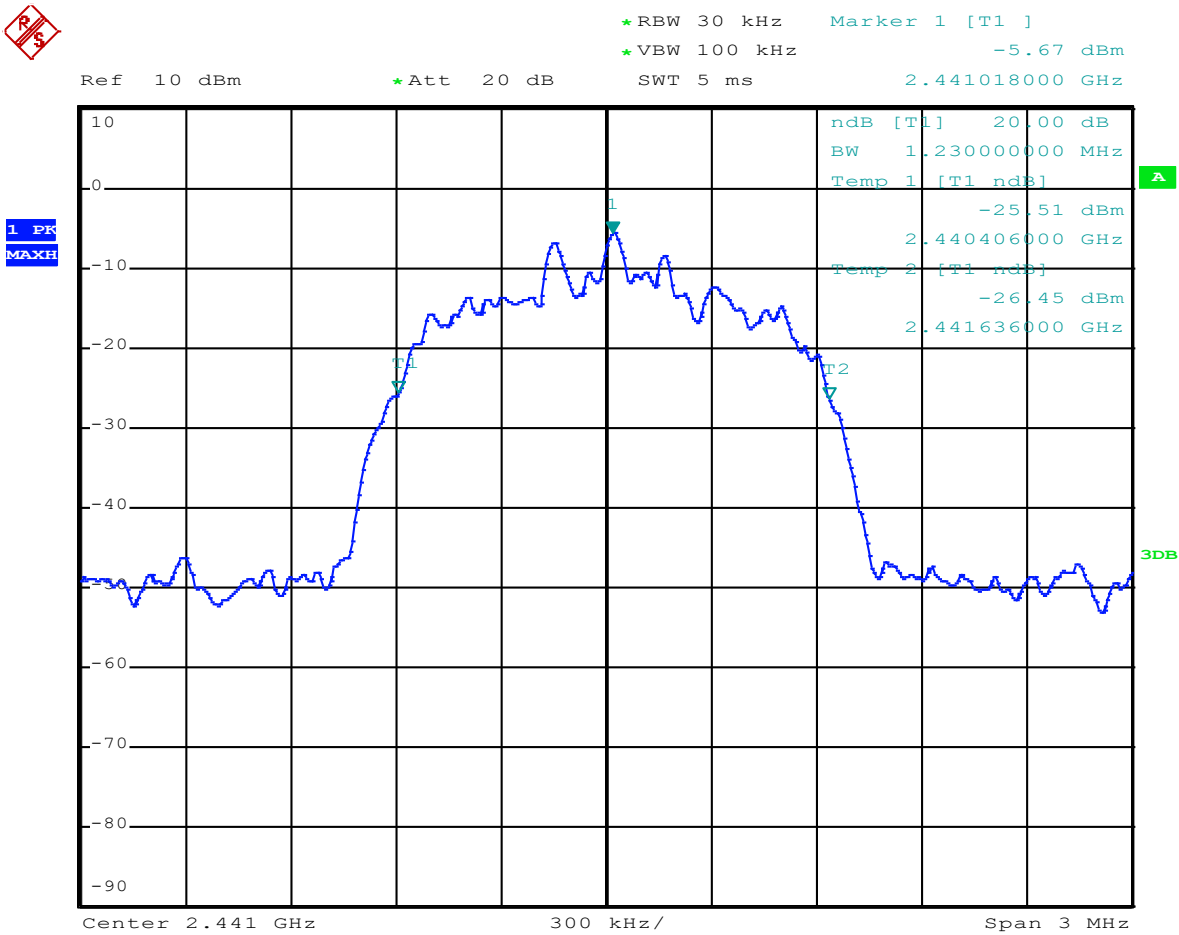


Date: 7.MAY.2025 11:04:23

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2. Condition: Middle Channel

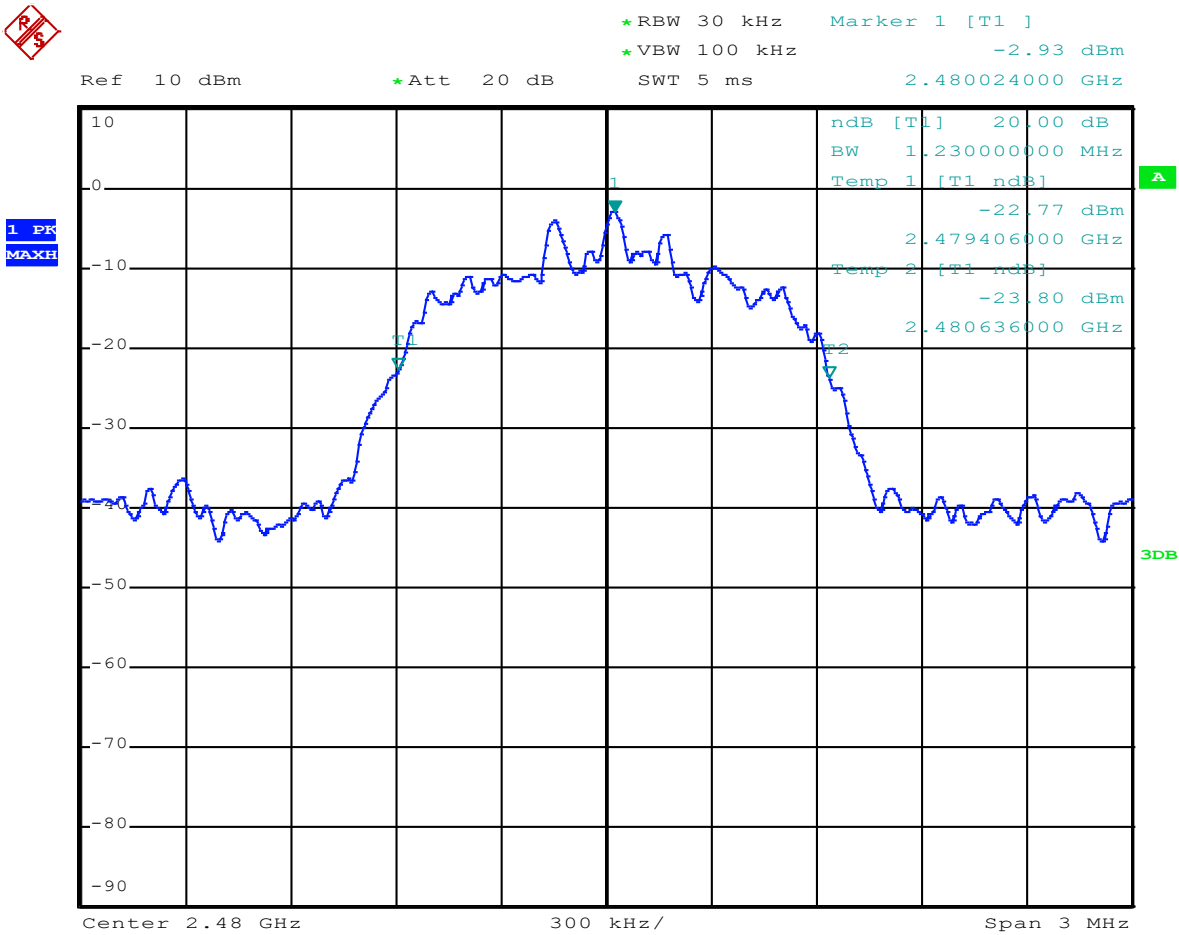


Date: 7.MAY.2025 11:09:28

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3. High Channel



Date: 7.MAY.2025 11:15:43

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8. Maximum Output Power

8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §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.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold
3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.
4. Repeat above procedures until all frequencies measured were complete.

Note: The Peak power were measured

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8.4 Test Results

Type of Modulation: GFSK

EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	11.48	30	Pass
Middle	2441	11.50	30	Pass
High	2480	11.67	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **AV** power was measured

Type of Modulation: 11/4DQPSK

EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	9.30	30	Pass
Middle	2441	8.77	30	Pass
High	2480	9.28	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **AV** power was measured

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Type of Modulation: 8DPSK

EUT	VR Headset		Model	CVR-255-64
Mode	Keep Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
		Peak		
Low	2402	8.22	30	Pass
Middle	2441	8.85	30	Pass
High	2480	9.00	30	Pass

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

2. The worse case was recorded
3. The **Peak** power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) \geq 1% of the span; Video (or Average) Bandwidth (VBW) \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold
3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.

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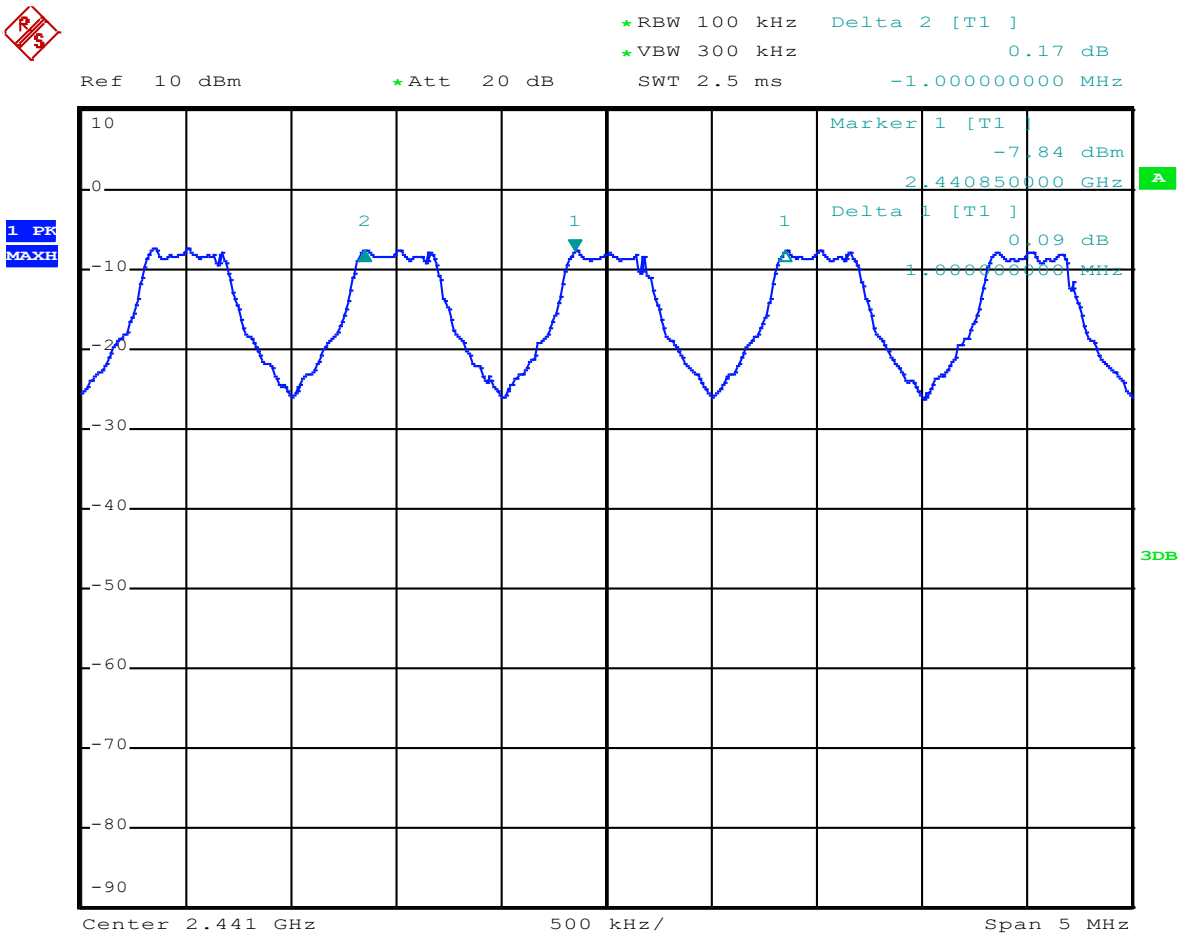


9.4Test Result

Type of Modulation: GFSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of the 20 dB bandwidth	Pass

Test Plots



Date: 12.MAY.2025 11:05:30

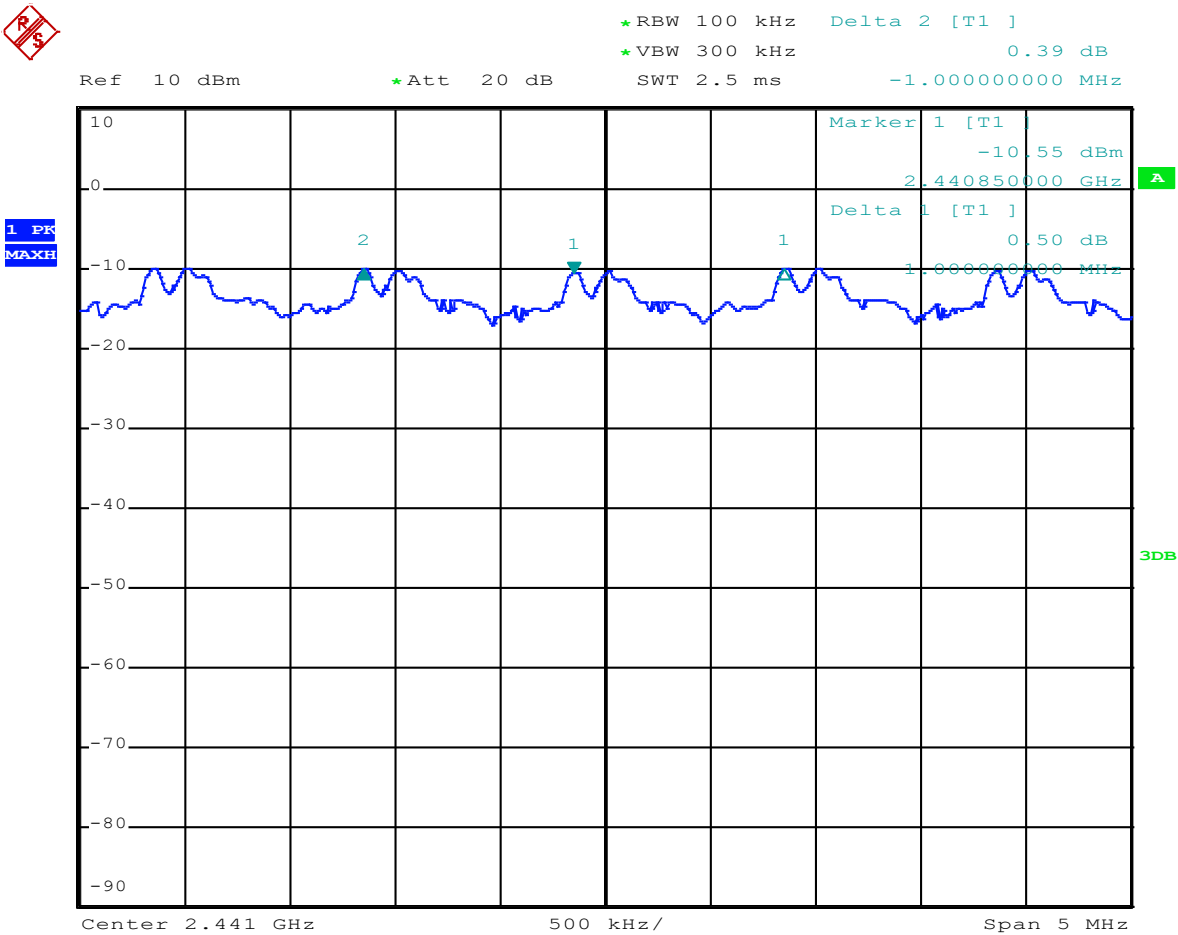
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Type of Modulation: $\pi/4$ QPSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of 20 dB bandwidth	Pass

Test Plots



Date: 12.MAY.2025 11:18:29

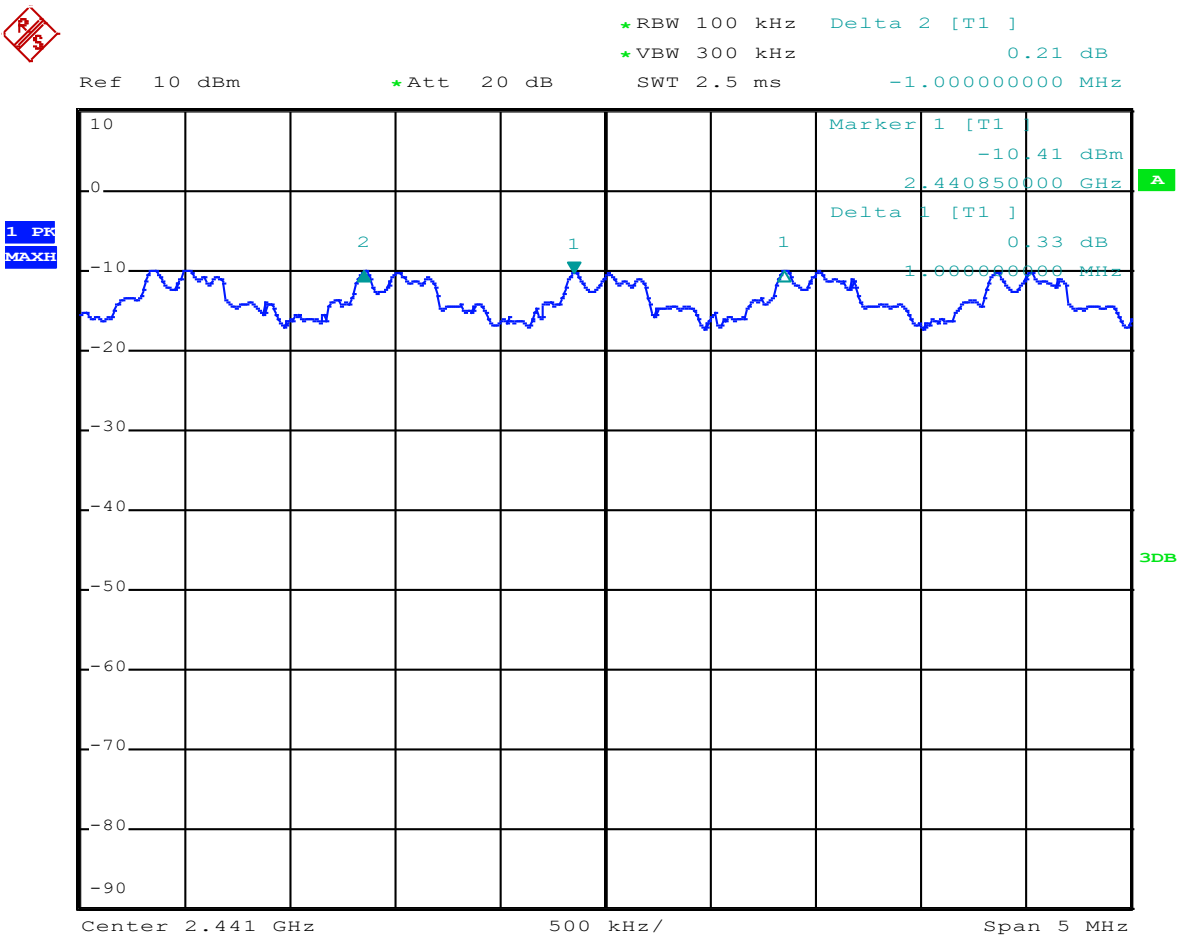
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Type of Modulation: 8DPSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Carrier Frequency Separation		Limit	Pass/ Fail
1.000MHz		≥ 25 kHz or 2/3 of 20 dB bandwidth	Pass

Test Plots



Date: 12.MAY.2025 11:50:46

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10. Number of Hopping Channels

10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold
3. Record the number of hopping channels.

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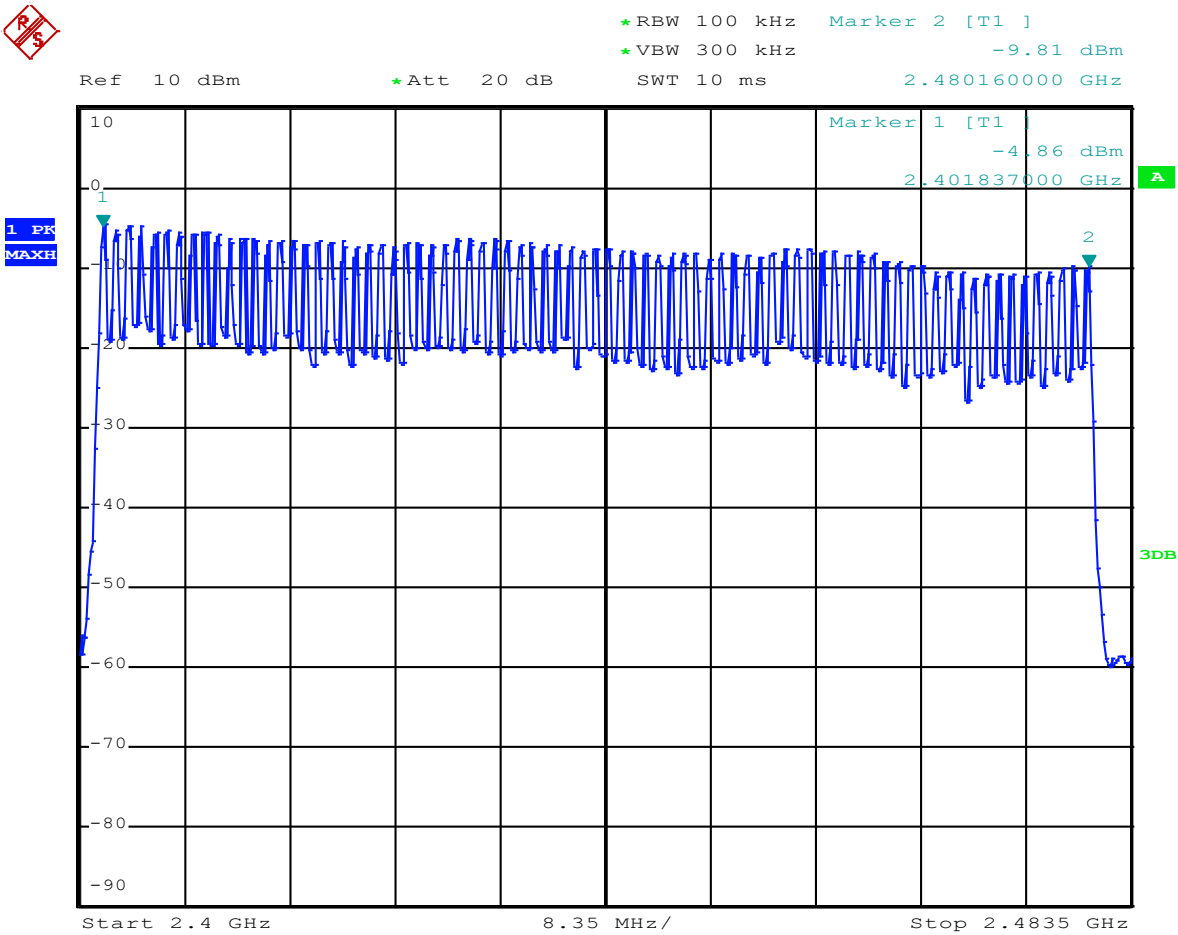


10.4Test Result

Type of Modulation: GFSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 12.MAY.2025 10:56:13

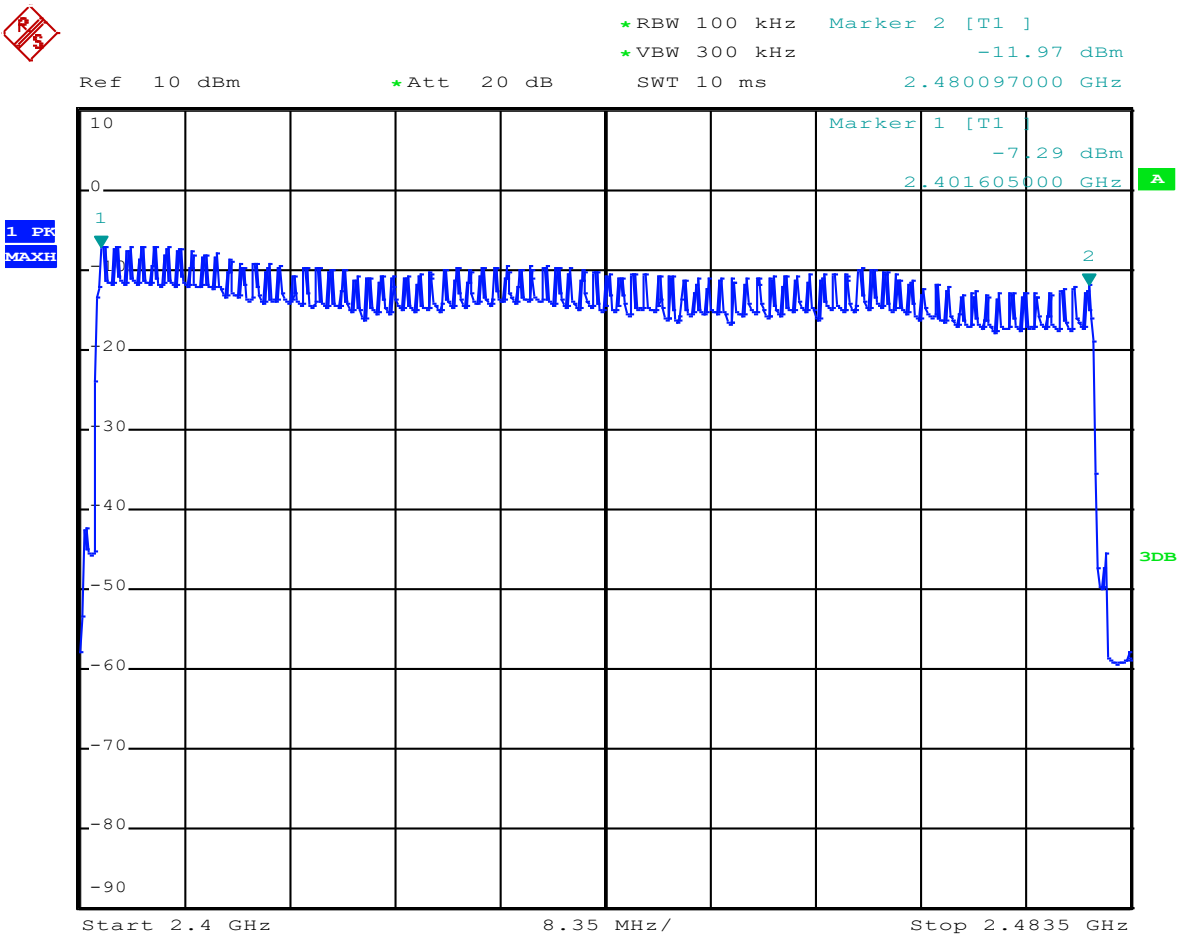
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Type of Modulation: $\pi/4$ DQPSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 12.MAY.2025 11:27:43

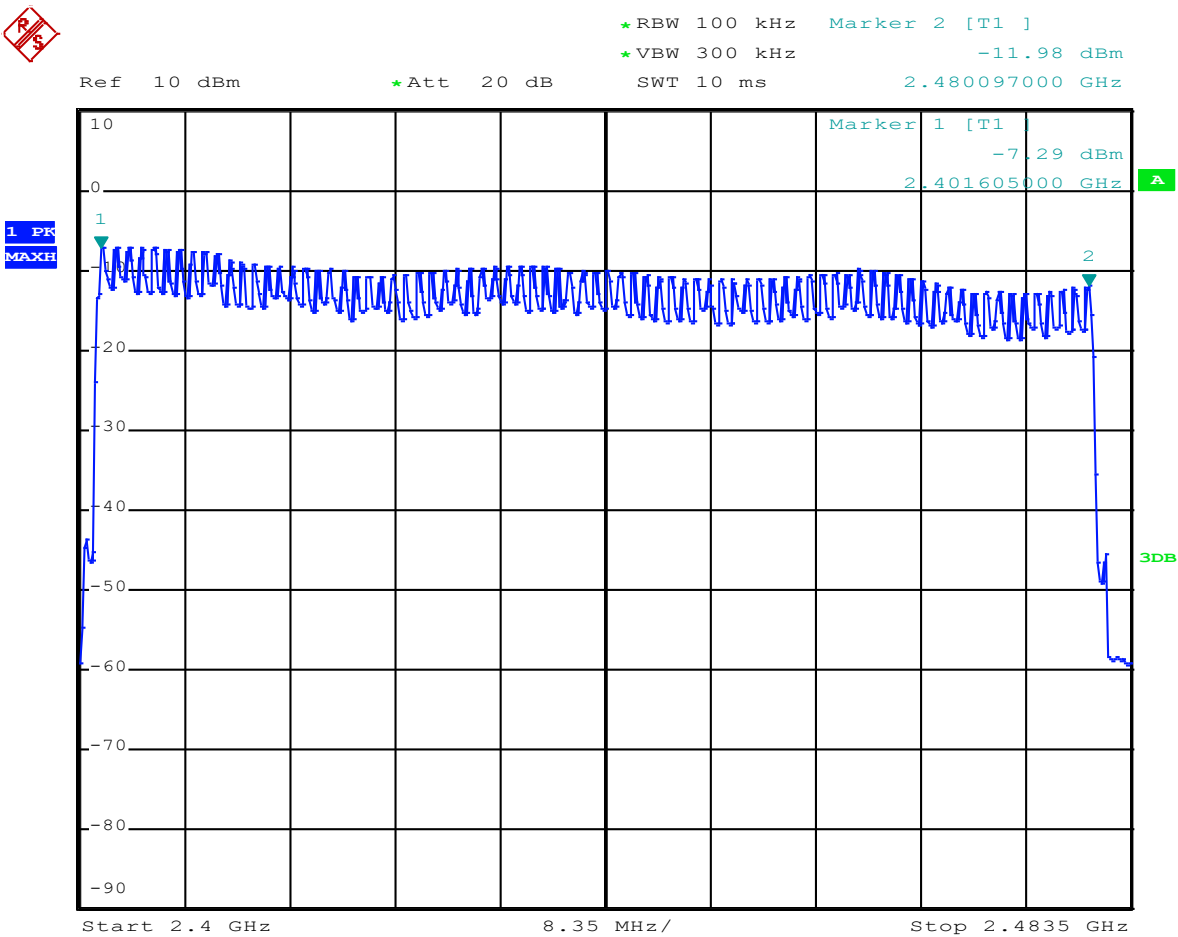
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Type of Modulation: 8DPSK

EUT	VR Headset	Model	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Operating Frequency	Number of hopping channels	Limit	Pass/ Fail
2402-2480MHz	79	≥ 15	Pass

Test Plot



Date: 12.MAY.2025 11:40:11

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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW \geq RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold
3. Measure the dwell time using the marker-delta function.
4. Repeat above procedures until all frequencies measured were complete.
5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

EUT		VR Headset		Model	CVR-255-64	
Mode		Keep Transmitting		Input Voltage	DC3.8V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Reading		Hoping Rate		Actual	Limit
DH5						
Middle	2.960ms		266.667 hop/s		0.316s	0.4s
DH3						
Middle	1.700ms		400 hop/s		0.272s	0.4s
DH1						
Middle	0.500ms		800 hop/s		0.160s	0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

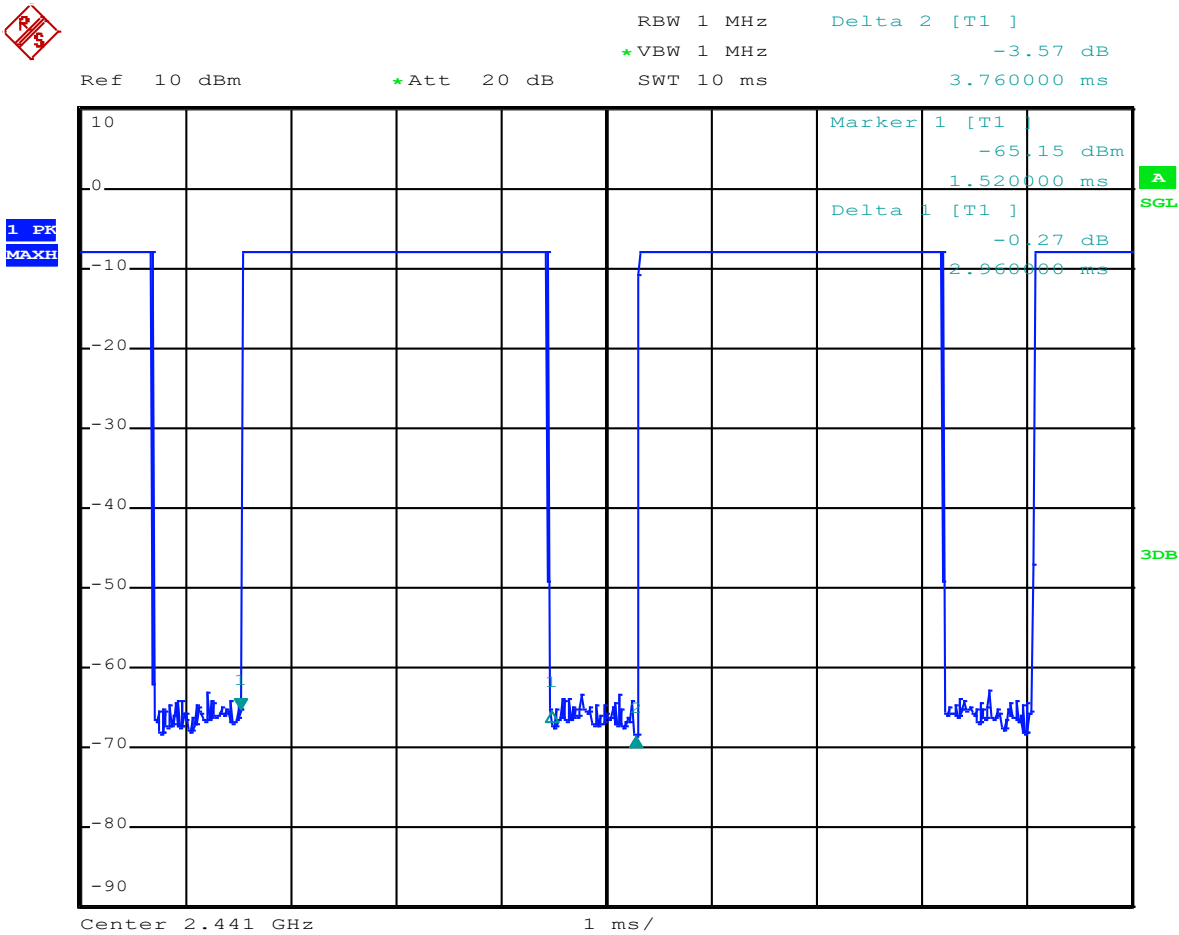
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Test Plots:
DH5

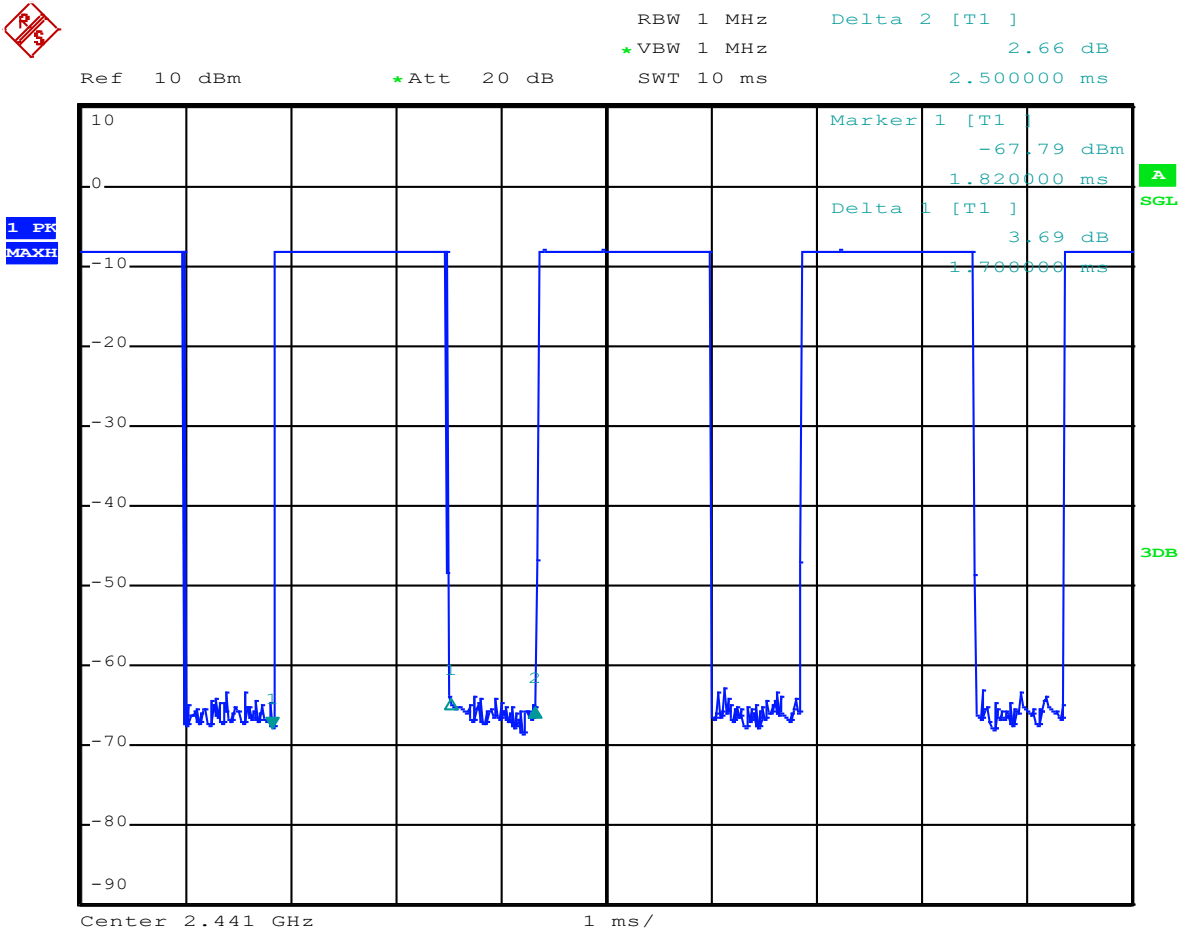


Date: 12.MAY.2025 12:59:17

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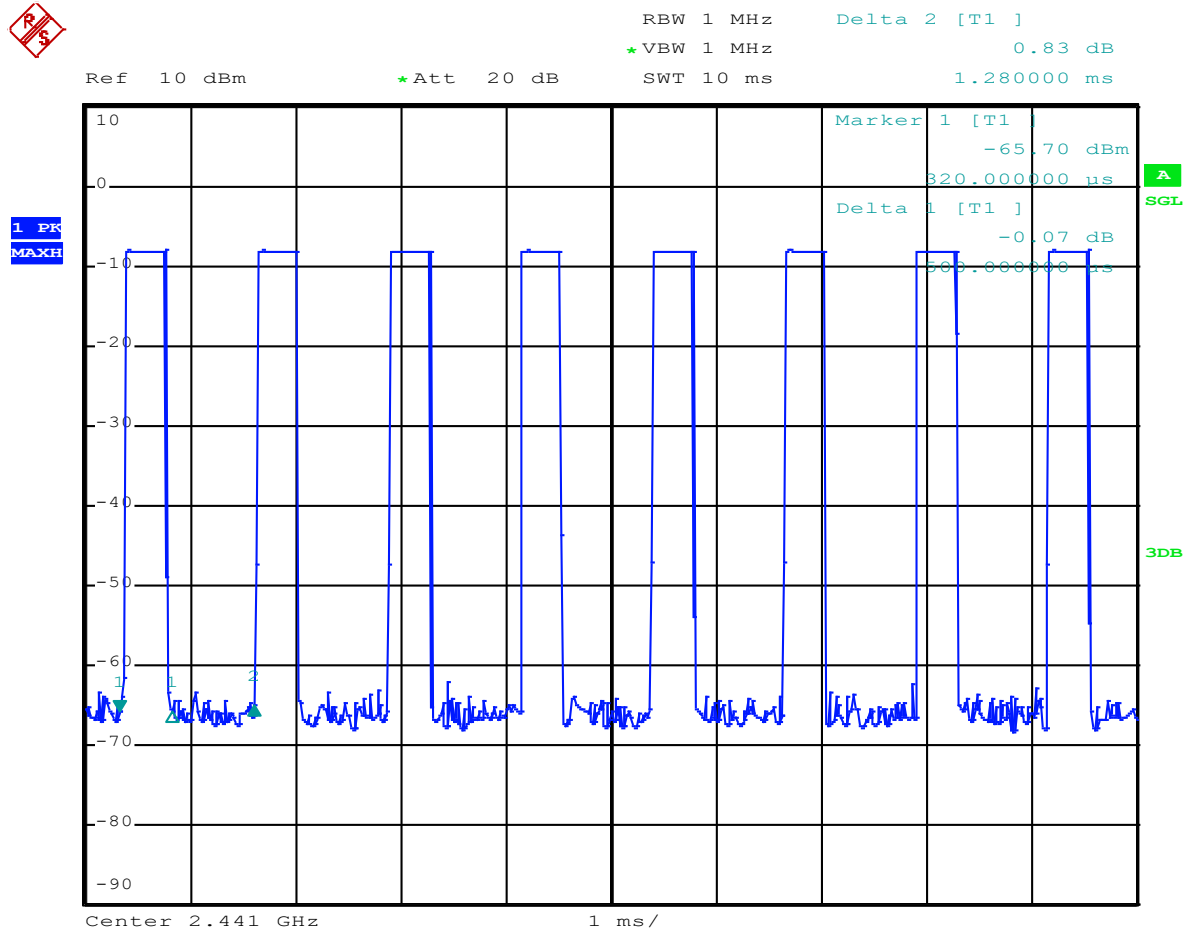


DH3



Date: 12.MAY.2025 12:58:27

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Test Result

Type of Modulation: $\pi/4$ DQPSK

EUT		VR Headset		Model	CVR-255-64	
Mode		Keep Transmitting		Input Voltage	DC3.8V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Reading		Hoping Rate		Actual	Limit
2DH5						
Middle	2.960ms		266.667 hop/s		0.316s	0.4s
2DH3						
Middle	1.760ms		400 hop/s		0.282s	0.4s
2DH1						
Middle	0.480ms		800 hop/s		0.154s	0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

The report refers only to the sample tested and does not apply to the bulk.

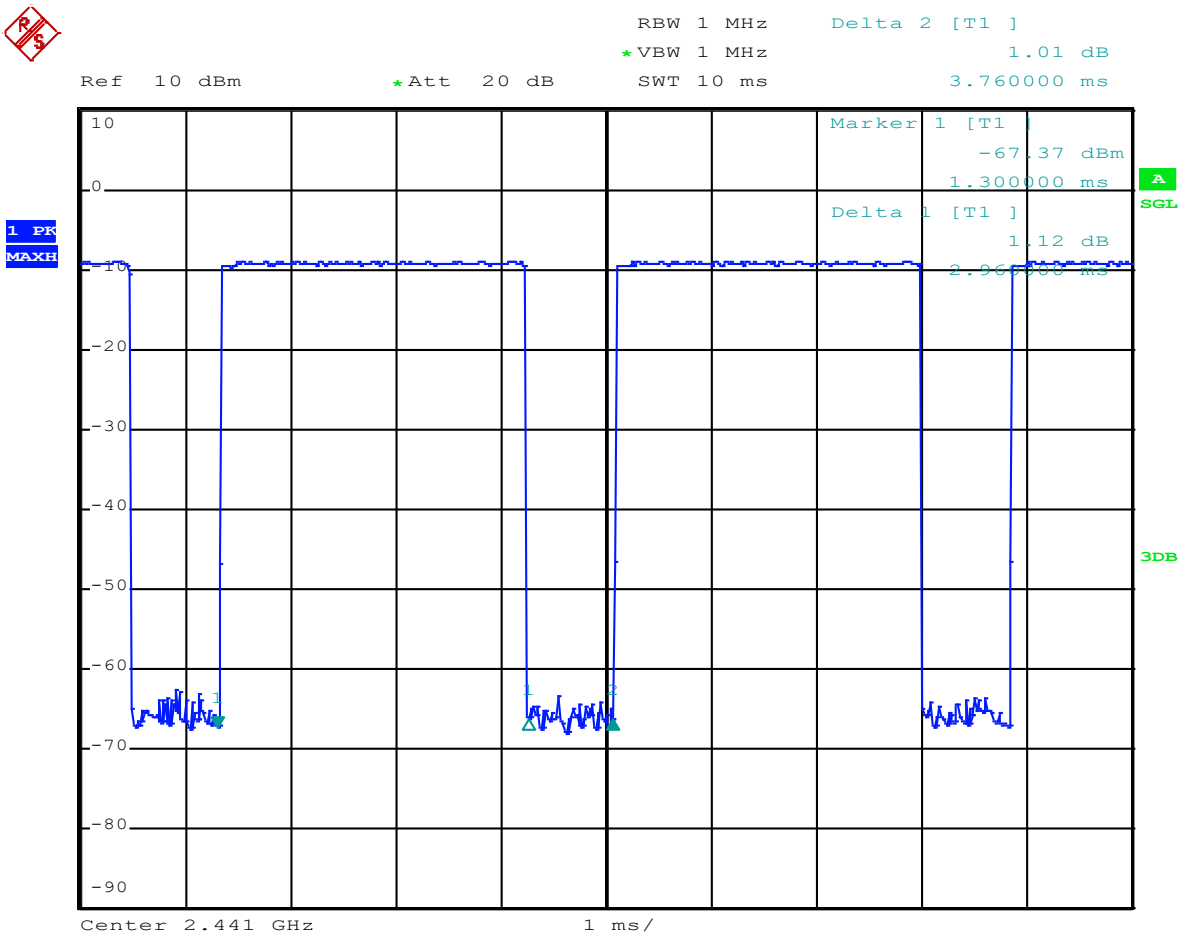
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Test Plots:

2DH5

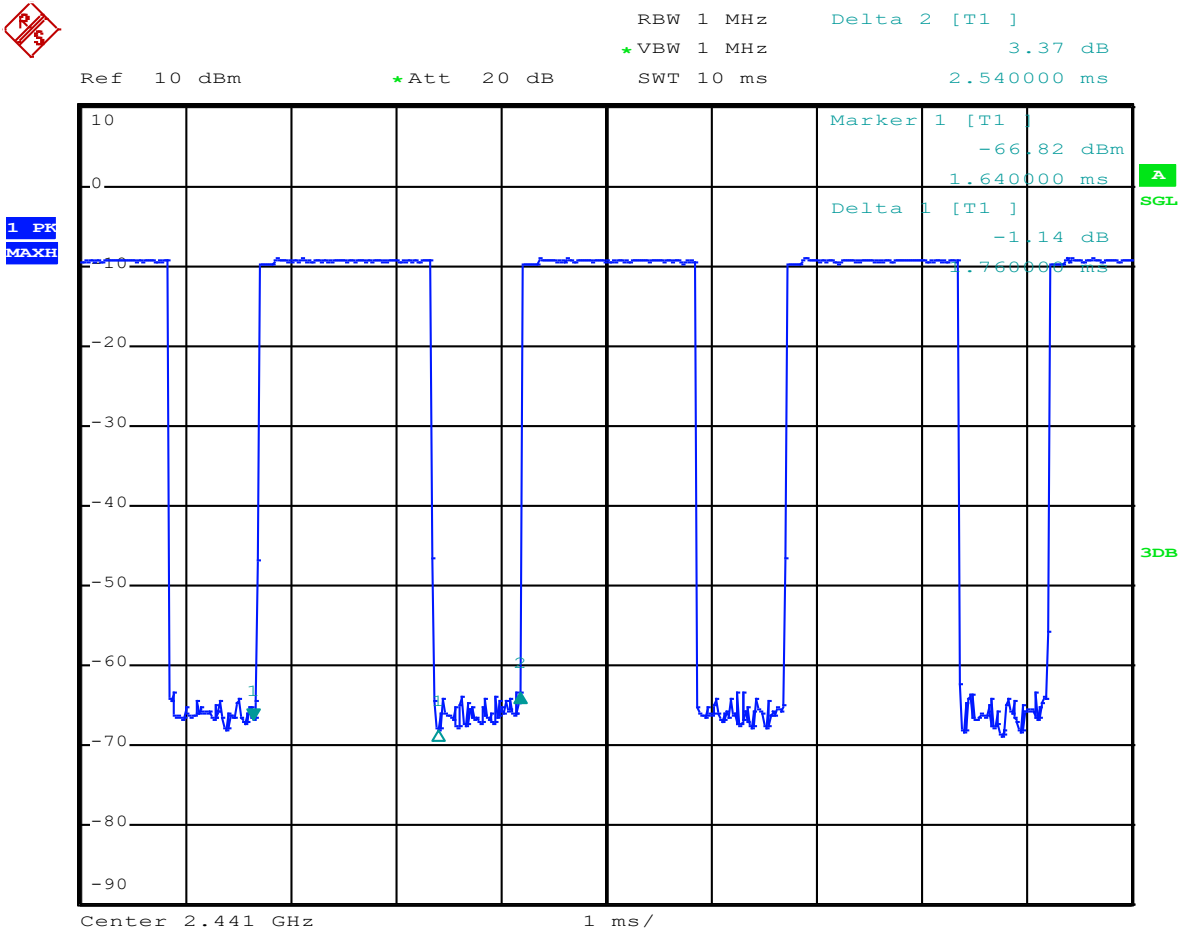


Date: 12.MAY.2025 12:35:54

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2DH3

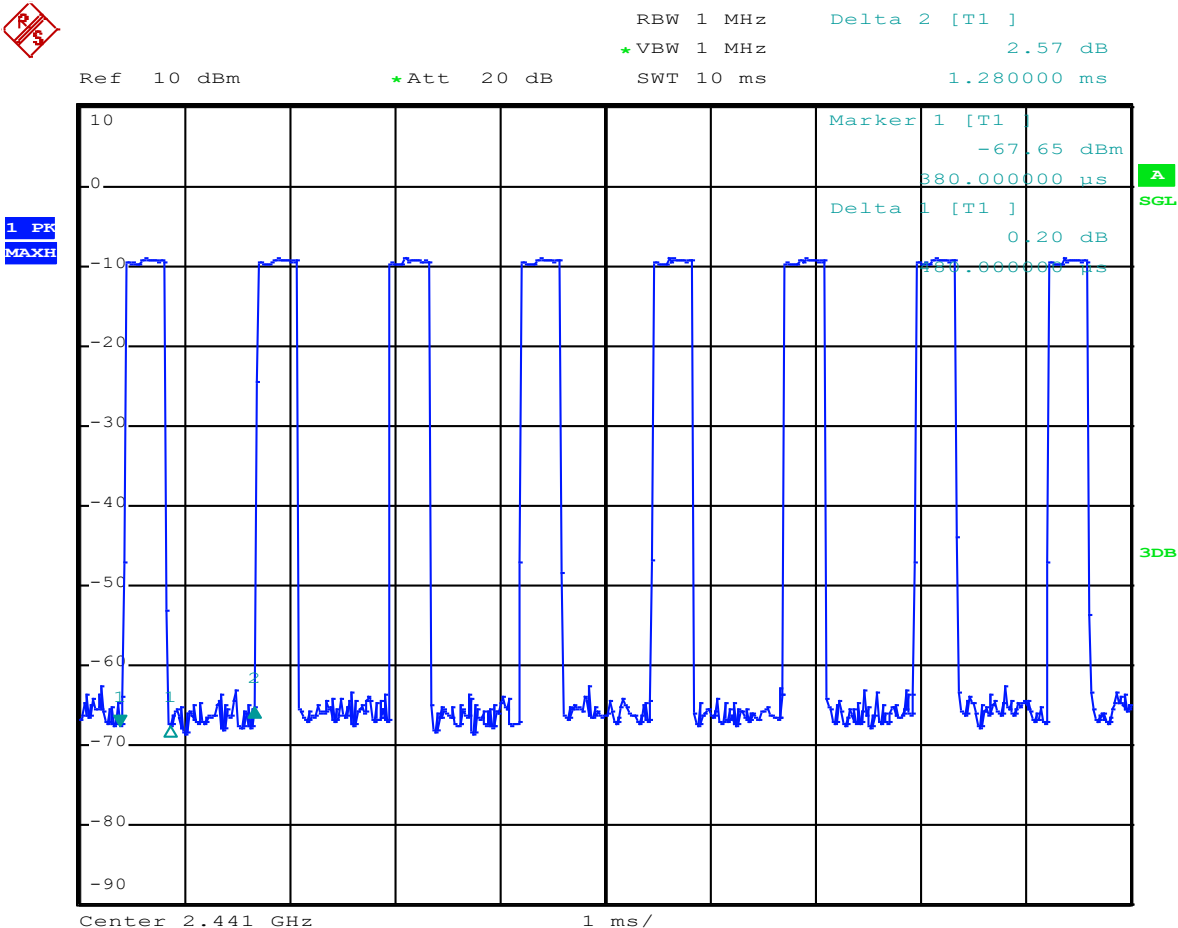


Date: 12.MAY.2025 12:40:18

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2DH1



Date: 12.MAY.2025 12:52:09

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Type of Modulation: 8DPSK

EUT		VR Headset		Model		CVR-255-64	
Mode		Keep Transmitting		Input Voltage		DC3.8V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Reading		Hoping Rate			Actual	Limit
3DH5							
Middle	2.960ms		266.667 hop/s			0.316s	0.4s
3DH3							
Middle	1.700ms		400 hop/s			0.272s	0.4s
3DH1							
Middle	0.460ms		800 hop/s			0.147s	0.4s

Actual = Reading \times (Hopping rate / Number of channels) \times Test period, Test period = 0.4 [seconds / channel] \times 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625 μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

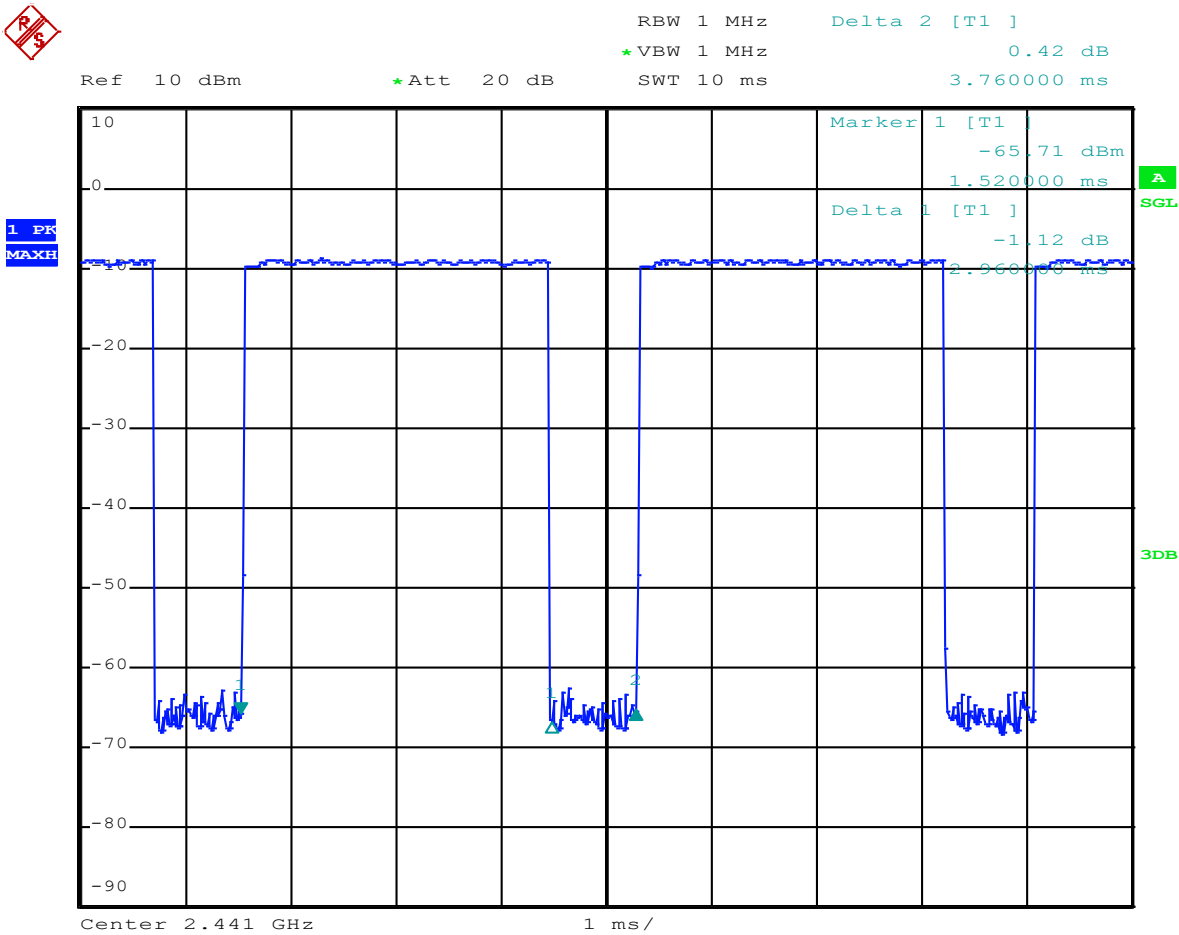
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Test Plots:
3DH5

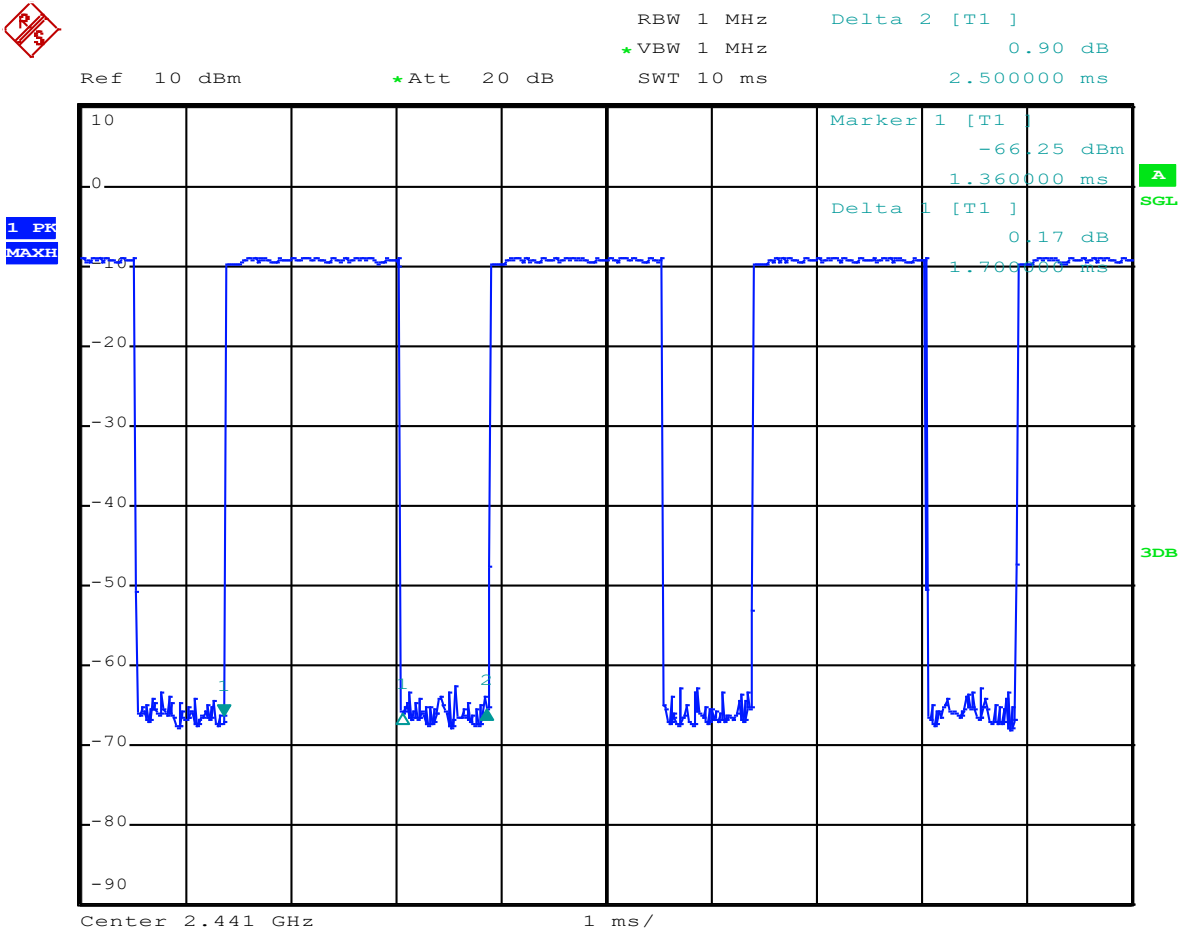


Date: 12.MAY.2025 13:02:27

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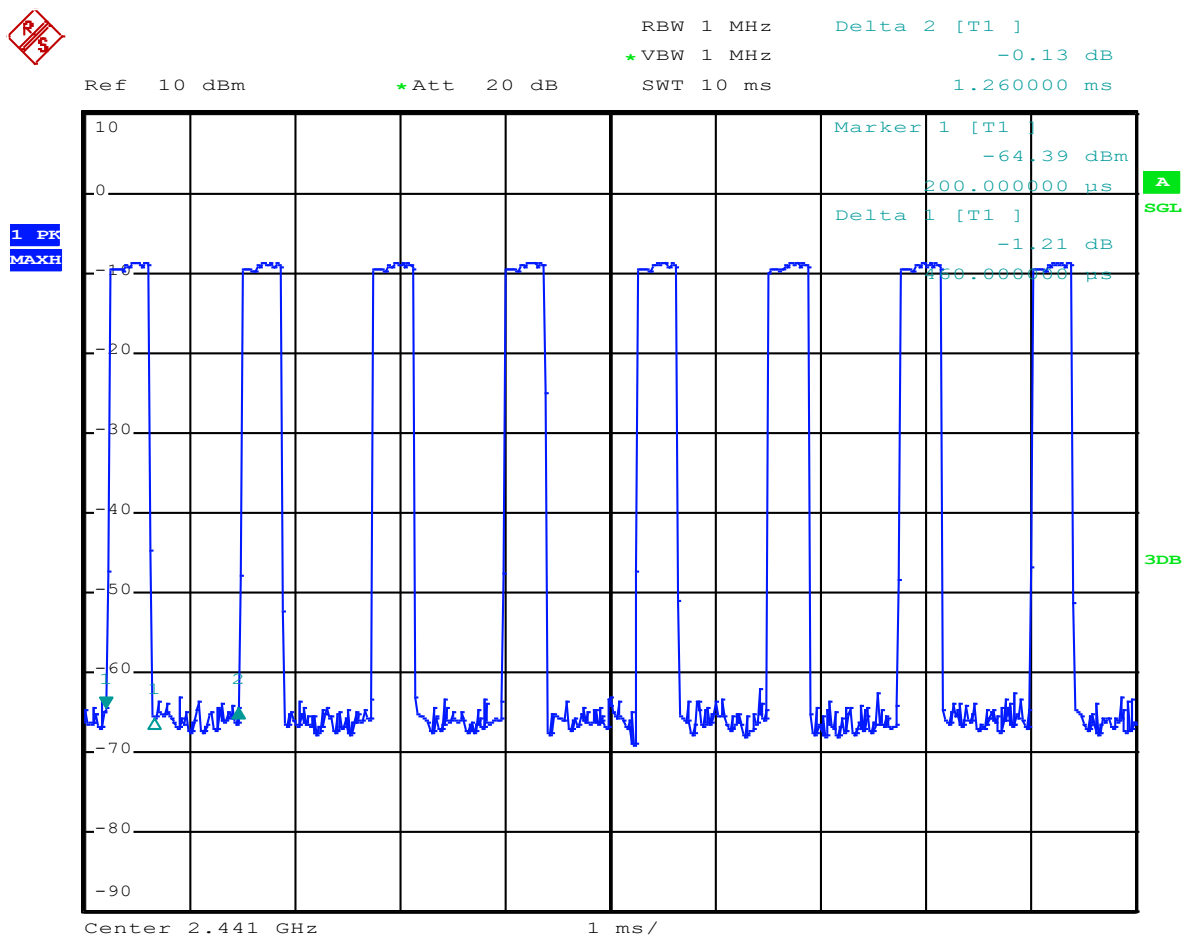
3DH3



Date: 12.MAY.2025 13:01:33

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3DH1



Date: 12.MAY.2025 13:00:15

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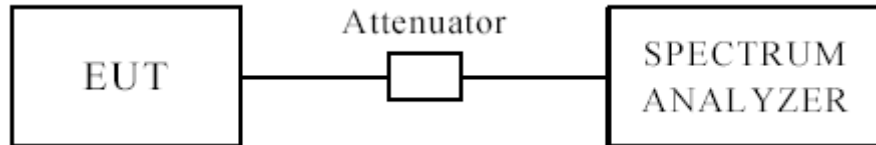
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the $2.4\text{--}2.483\text{GHz}$ allocated band a measurement was made of radiated emission test. Peak values with $\text{RBW}=\text{VBW}=1\text{MHz}$ and PK detector.

For bandage test, the spectrum set as follows: $\text{RBW}=100\text{kHz}$, $\text{VBW}=300\text{ kHz}$. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz - 25GHz was tested. And It met the FCC rule.

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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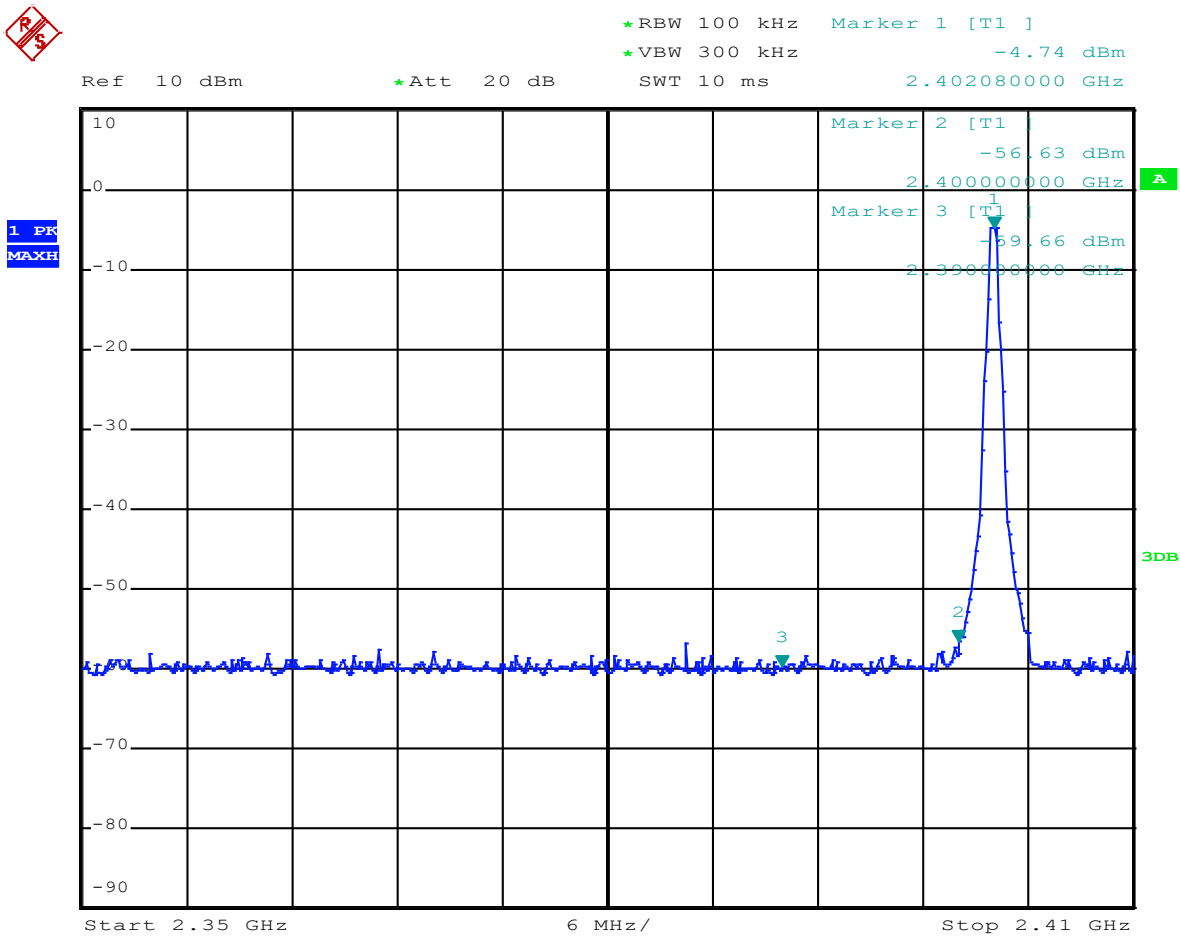
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Type of Modulation: GFSK
12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Keeping Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 14:44:13

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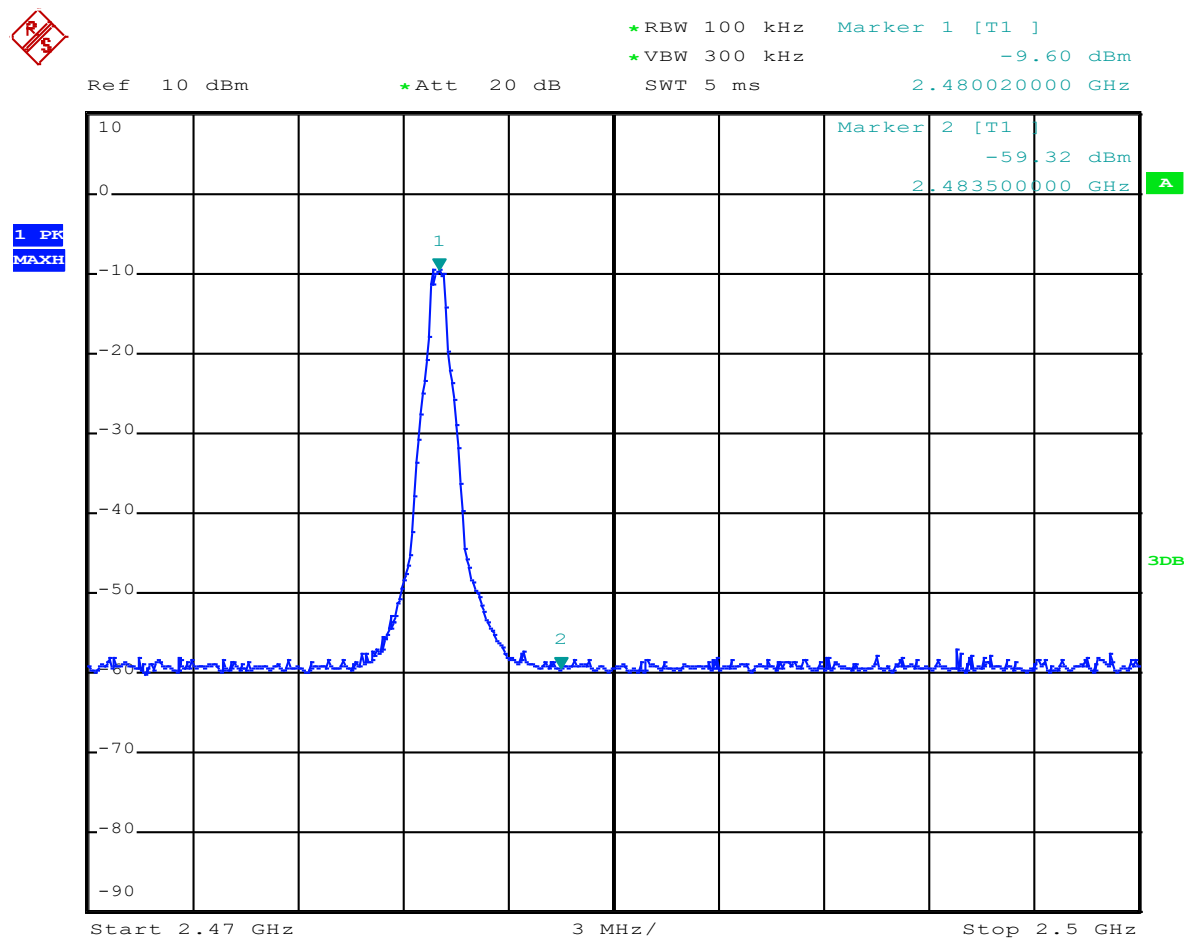


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Keeping Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 14:59:42

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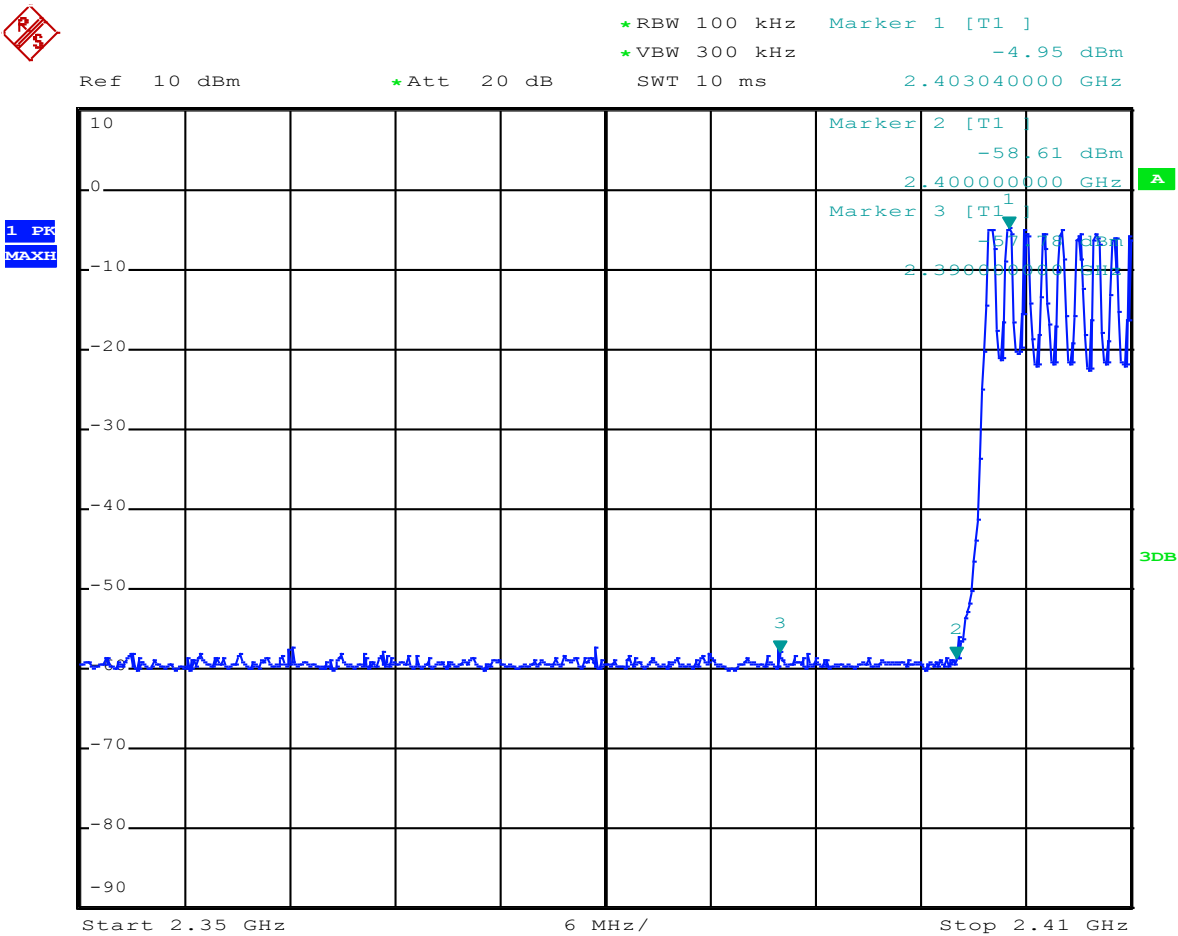


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 14:47:18

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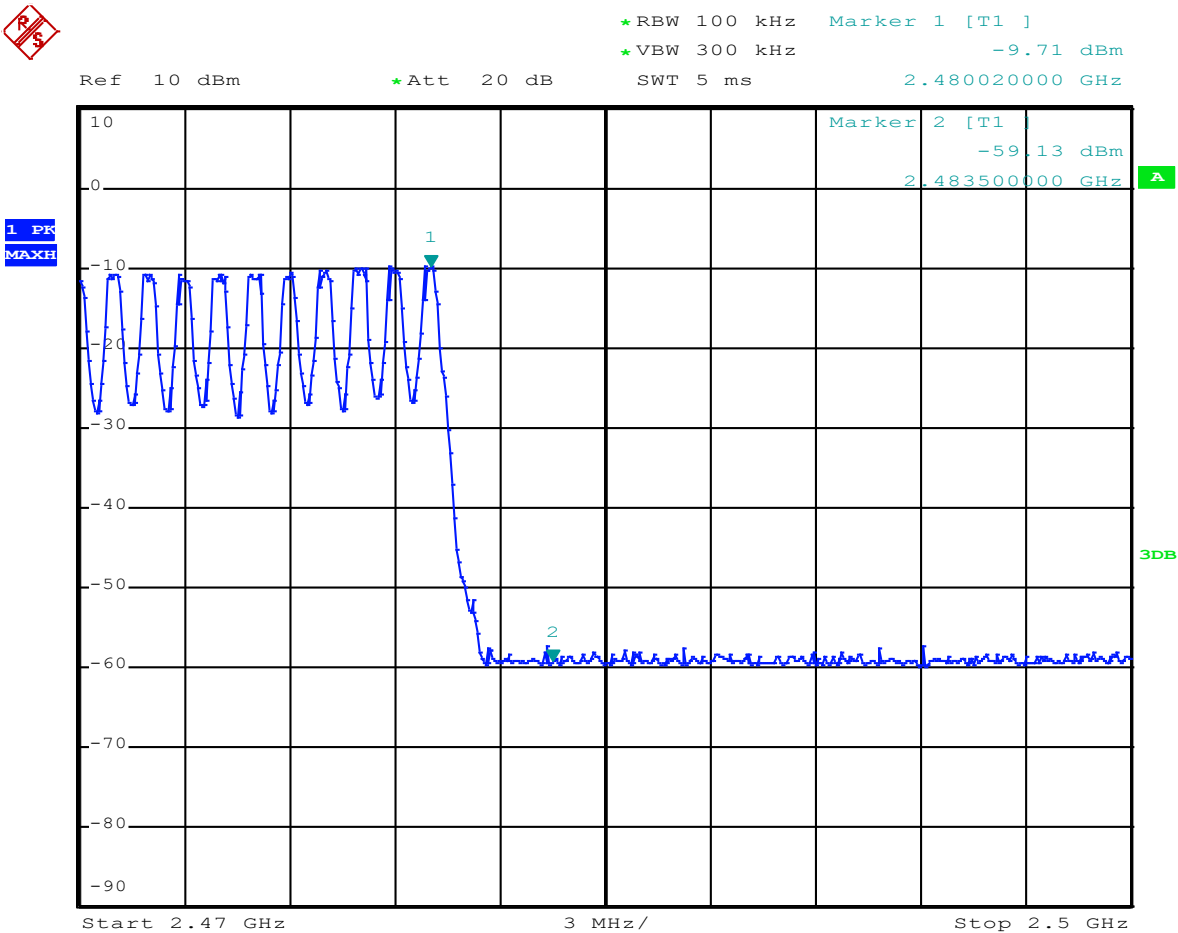


Type of Modulation: GFSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 14:54:06

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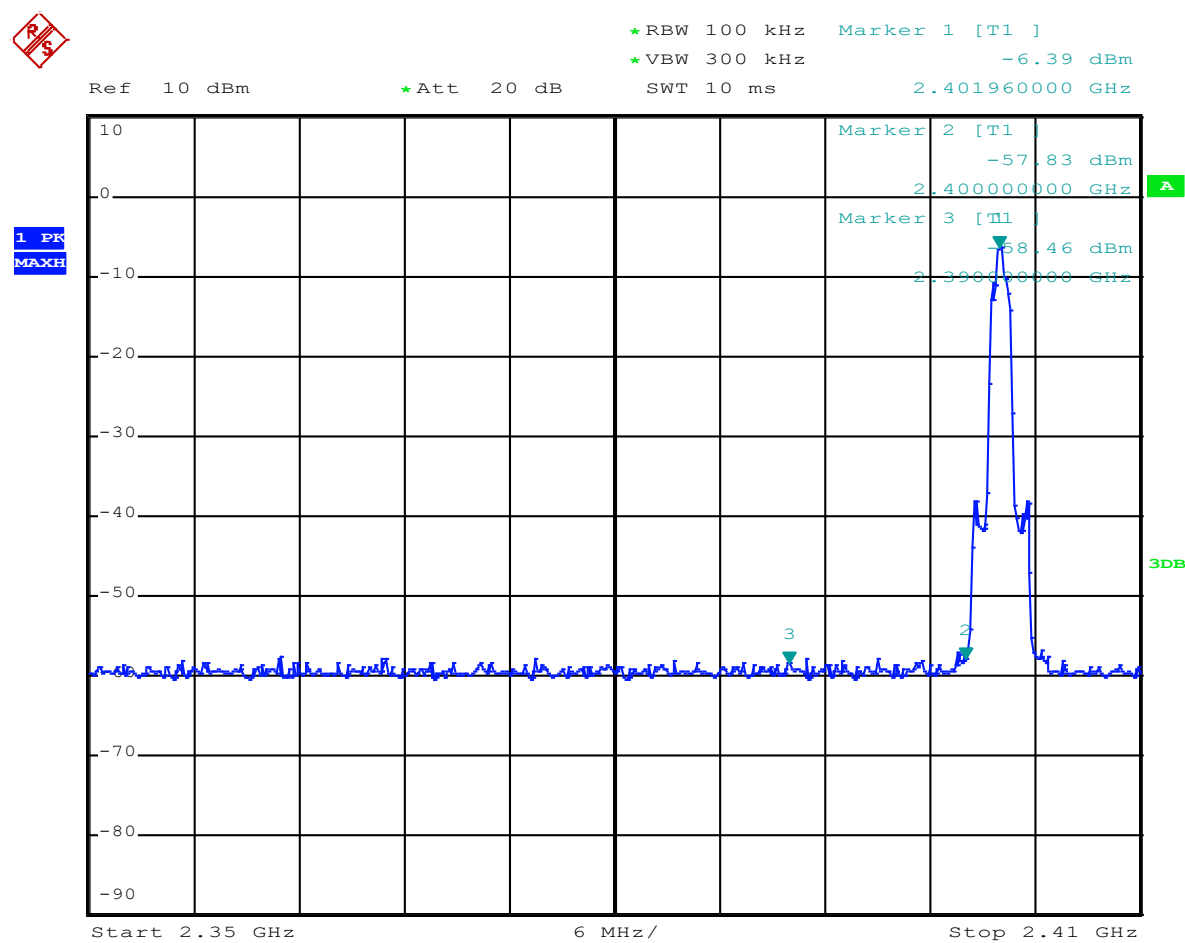


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Keeping Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 14:42:26

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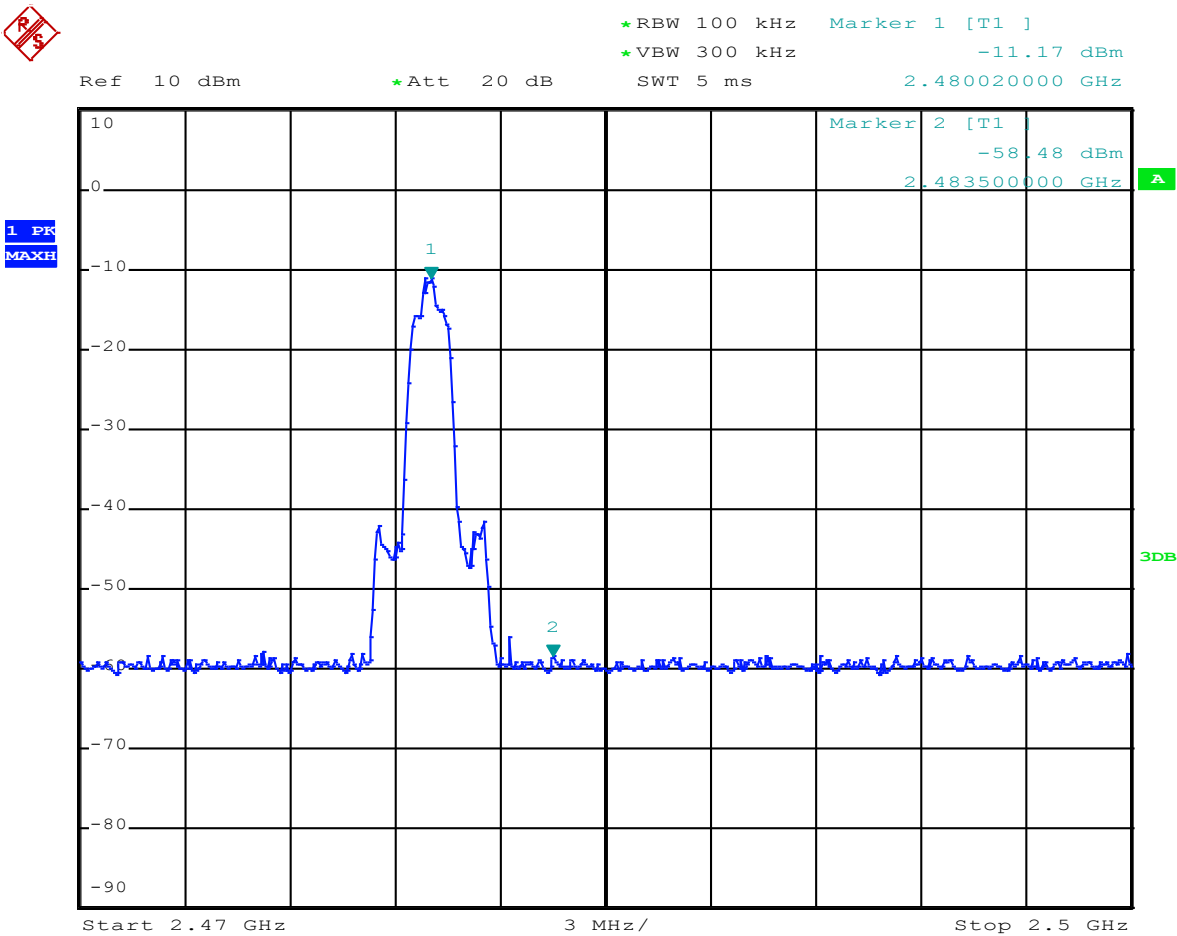


Type of Modulation: $\pi/4$ QPSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Keeping Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 15:01:58

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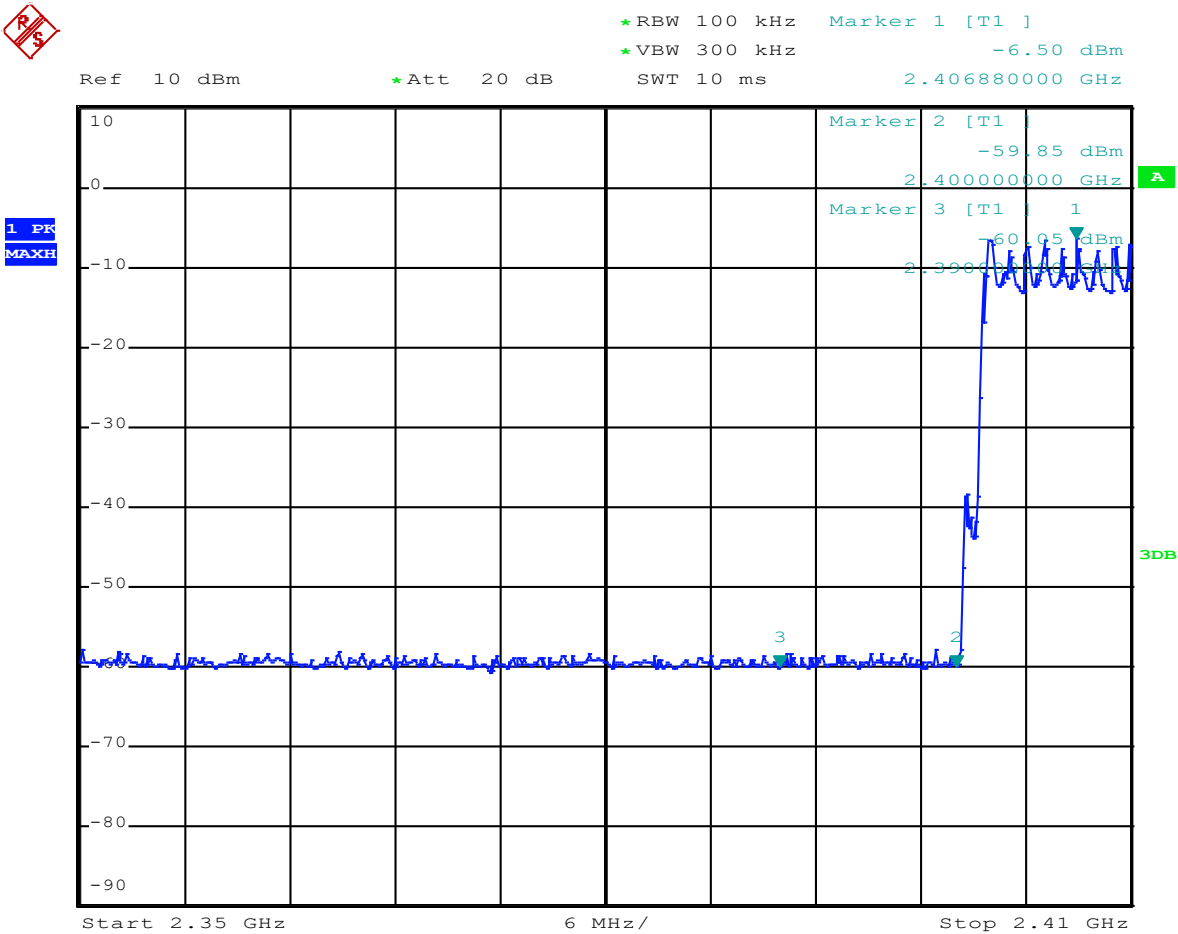


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 13:08:45

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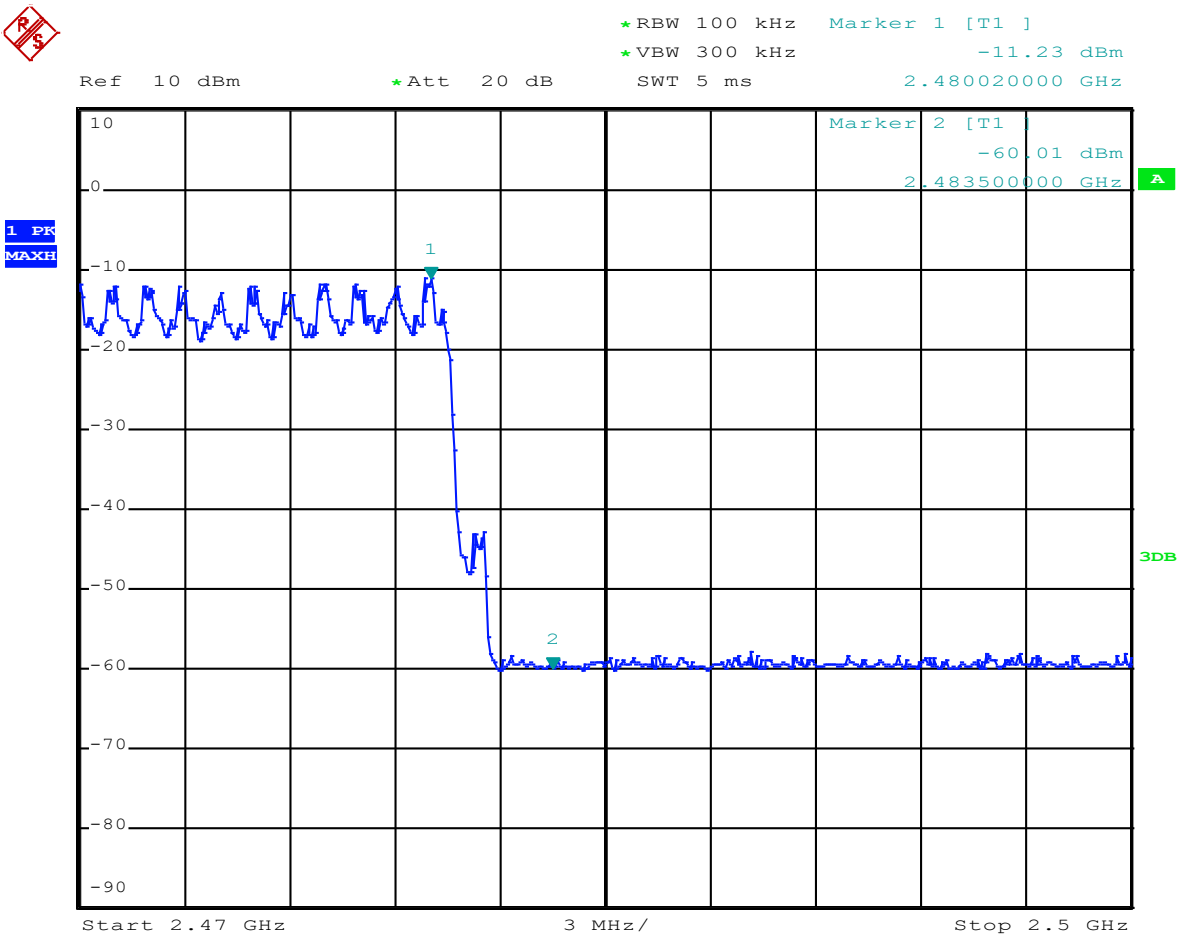


Type of Modulation: $\pi/4$ DQPSK

12.4 Out of Band Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 15:05:40

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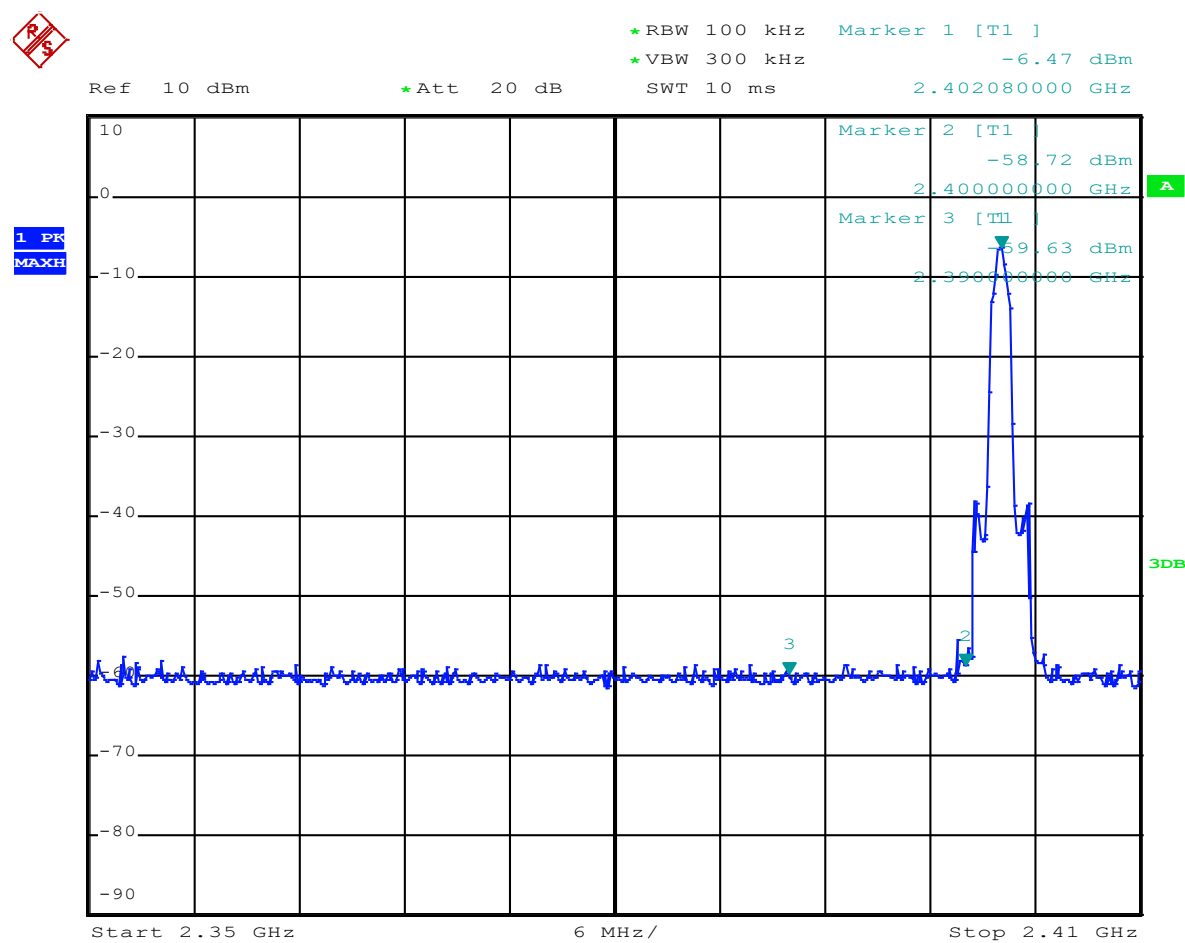


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Keeping Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 13:03:51

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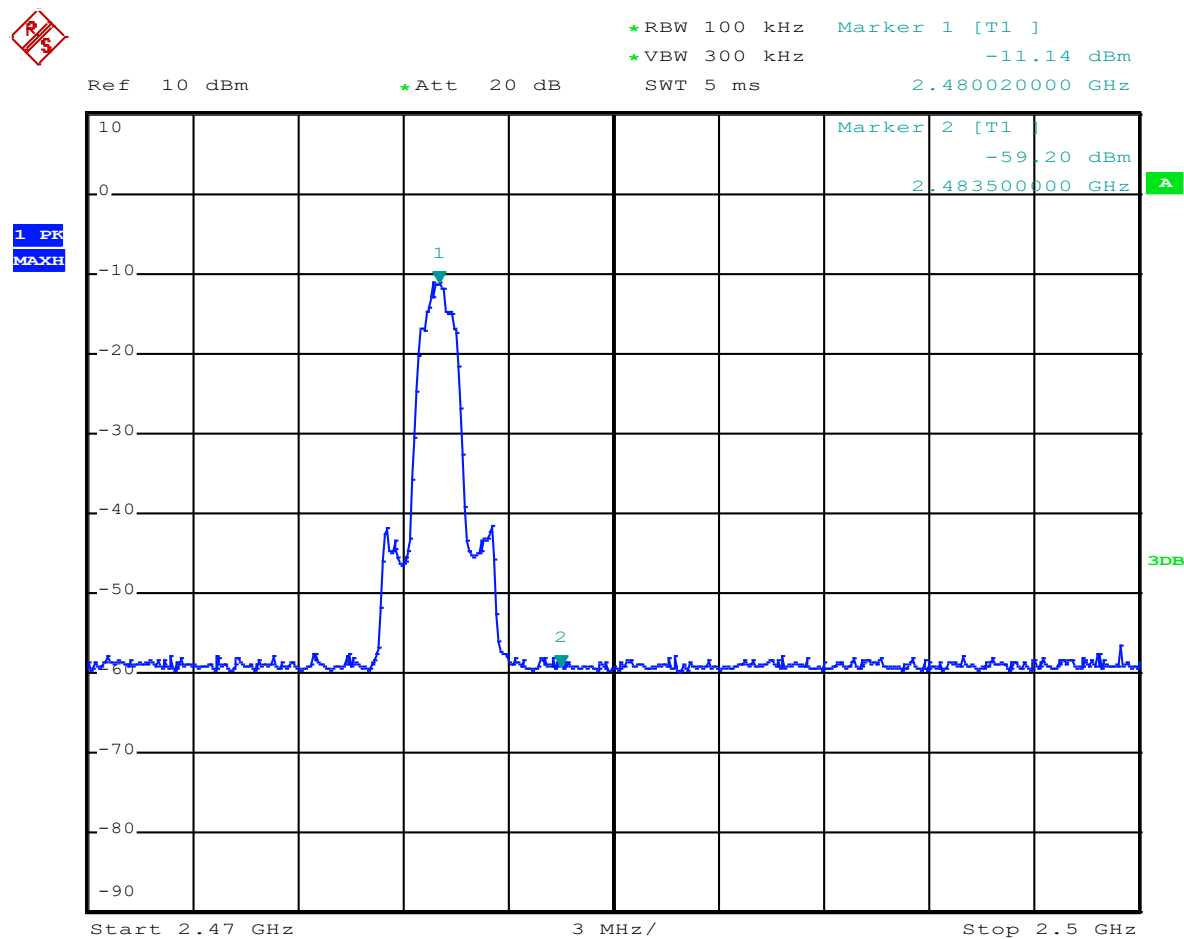


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	VR Headset		Test Mode:	CVR-255-64
Mode	Keeping Transmitting		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in Restrict Band 2483.5MHz	PK (dBμV/m)	--	Limit	74(dBμV/m)
	AV(dBμV/m)	--		54(dBμV/m)

Test Figure:



Date: 12.MAY.2025 15:17:53

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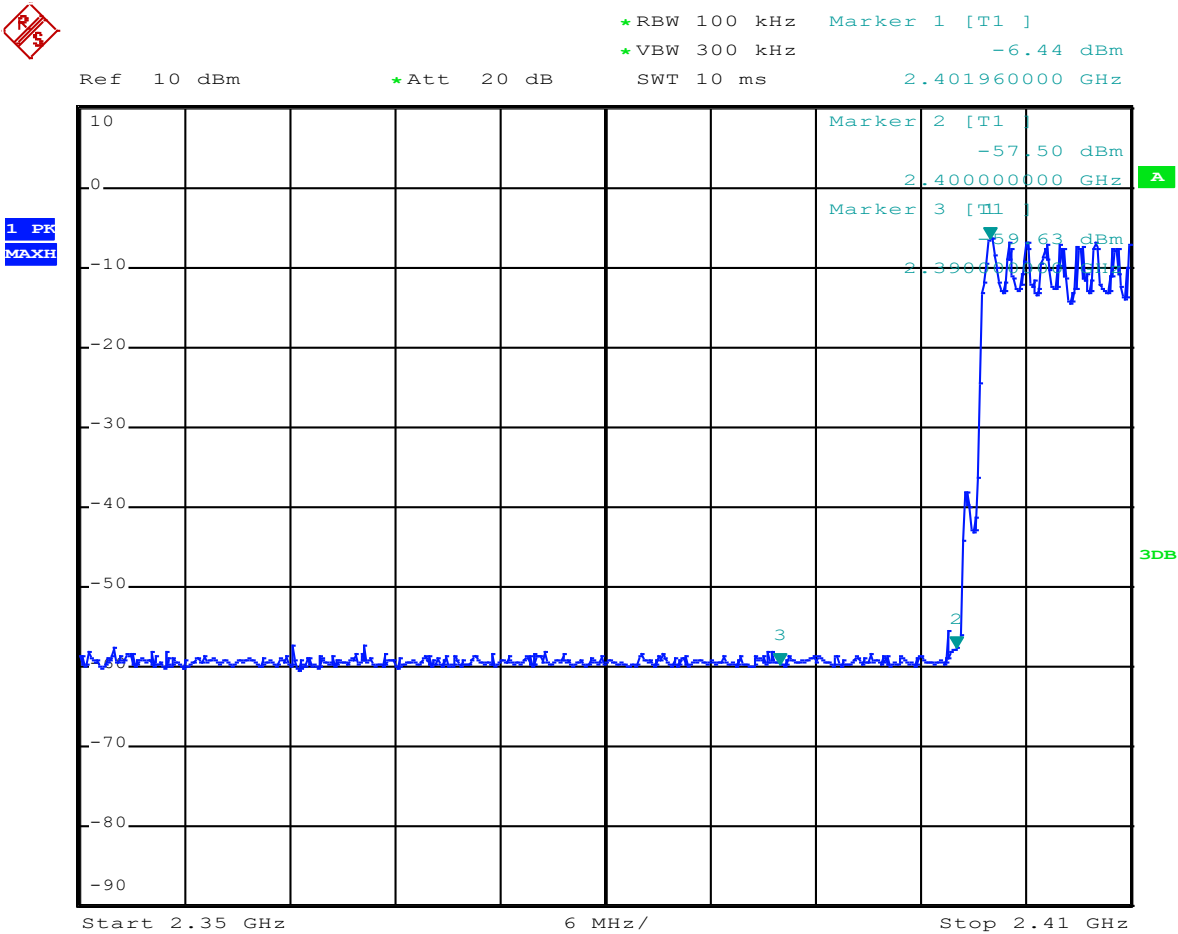


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 12.MAY.2025 13:06:27

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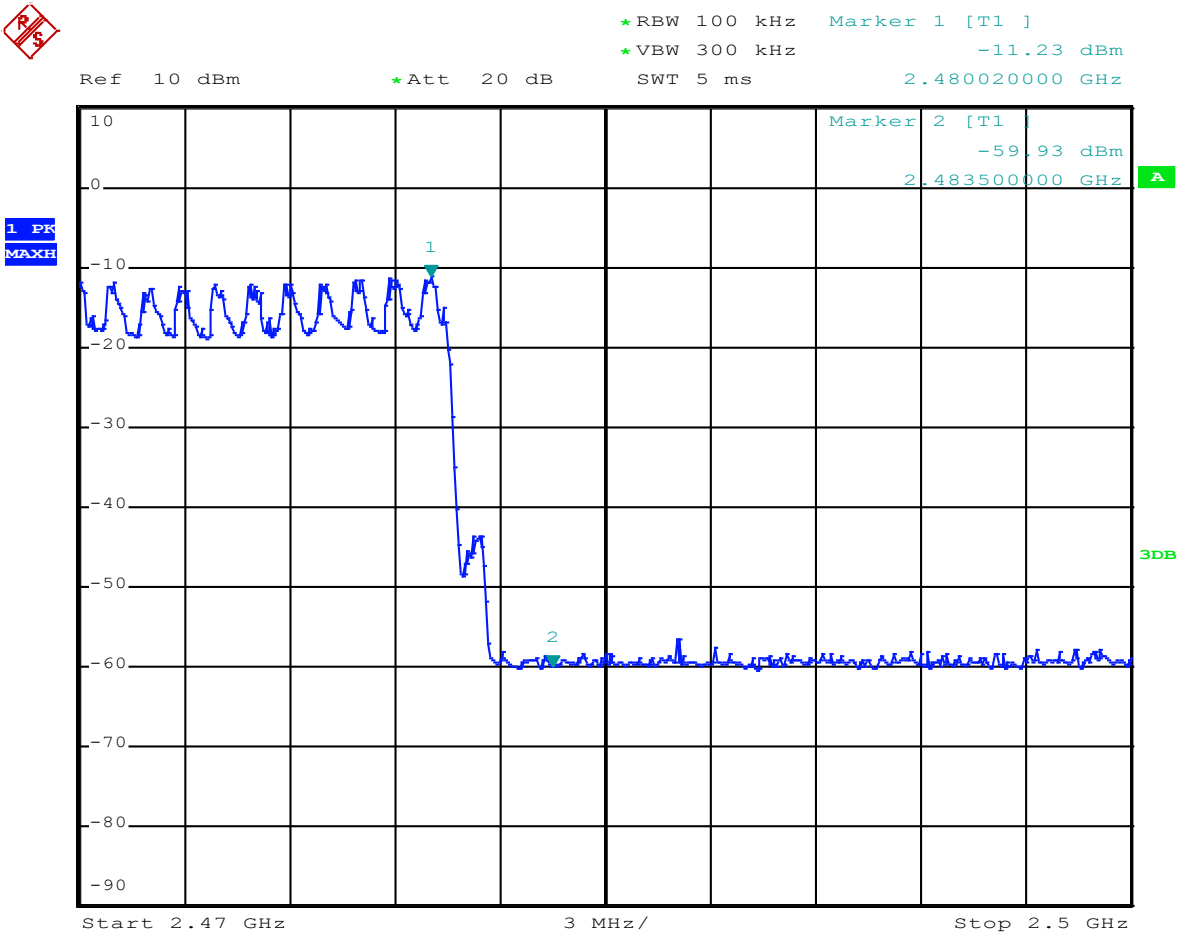


Type of Modulation: 8DPSK

12.4 Band Edge Test Result

Product:	VR Headset	Test Mode:	CVR-255-64
Mode	Hopping On	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



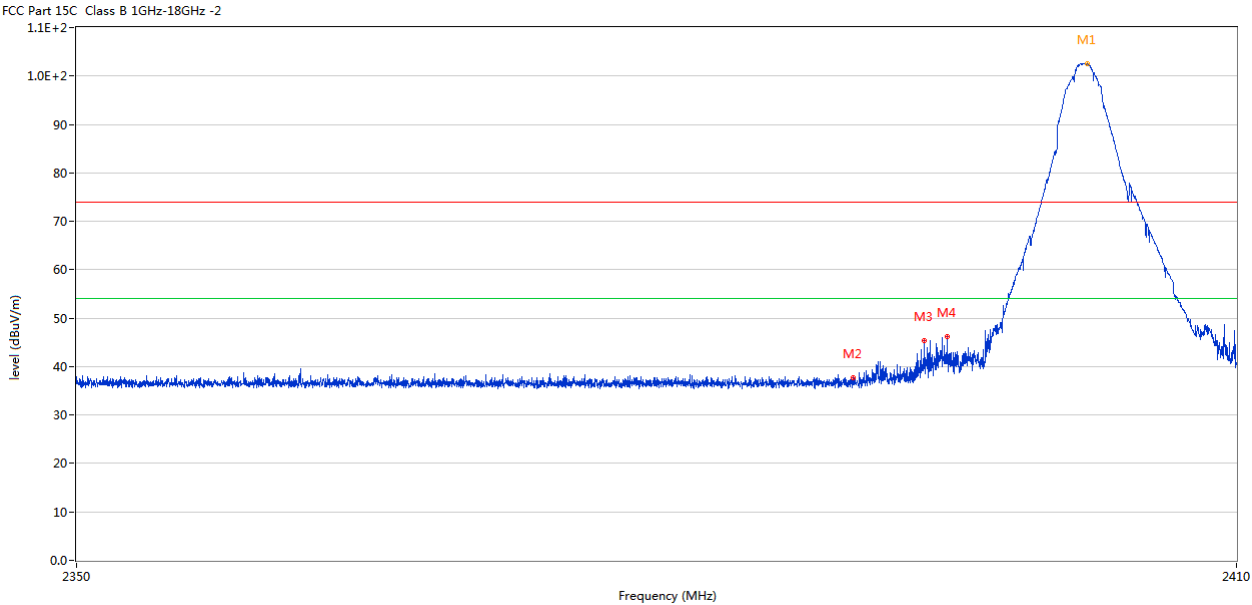
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12.4 Restrict Band Measurement

EUT	VR Headset	Model	CVR-255-64
Mode	Keep Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	GFSK



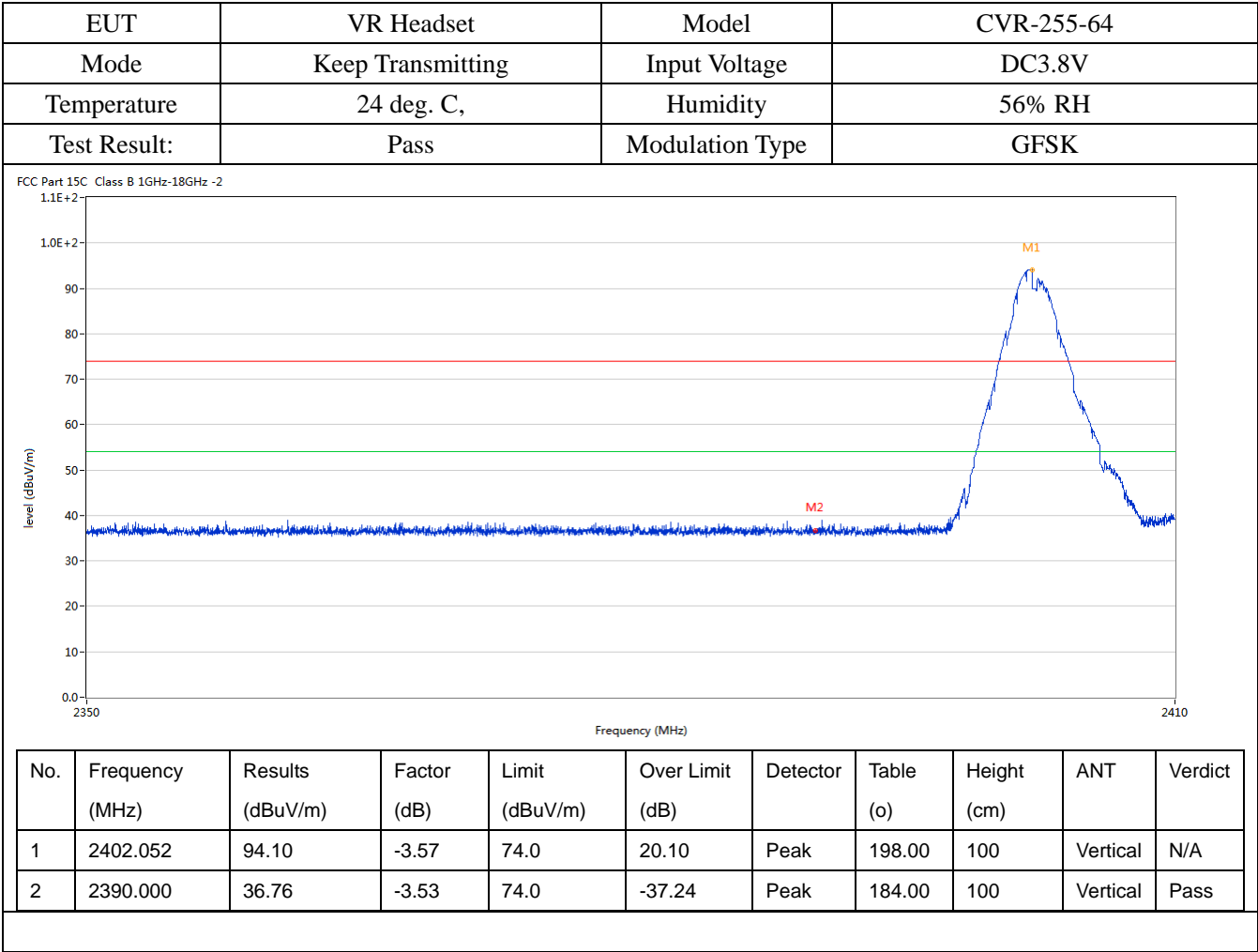
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.187	102.47	-3.57	74.0	28.47	Peak	262.00	100	Horizontal	N/A
2	2390.000	37.70	-3.53	74.0	-36.30	Peak	136.67	100	Horizontal	Pass
3	2393.714	45.44	-3.54	74.0	-28.56	Peak	267.00	100	Horizontal	Pass
4	2394.914	46.21	-3.55	74.0	-27.79	Peak	262.00	100	Horizontal	Pass

Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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12.4 Restrict Band Measurement



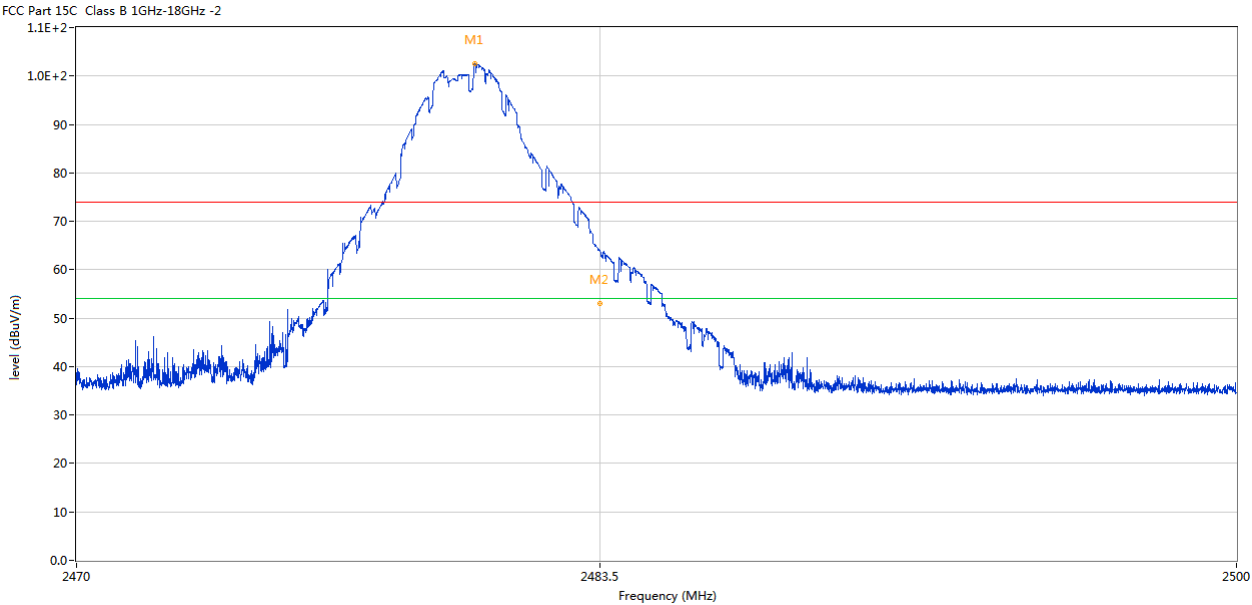
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12.4 Restrict Band Measurement

EUT	VR Headset	Model	CVR-255-64
Mode	Keep Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	GFSK



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.250	102.57	-3.57	74.0	28.57	Peak	253.00	100	Horizontal	N/A
2	2483.500	63.85	-3.57	74.0	-10.15	Peak	232.00	100	Horizontal	Pass
2**	2483.500	52.94	-3.57	54.0	-1.06	AV	232.00	100	Horizontal	Pass

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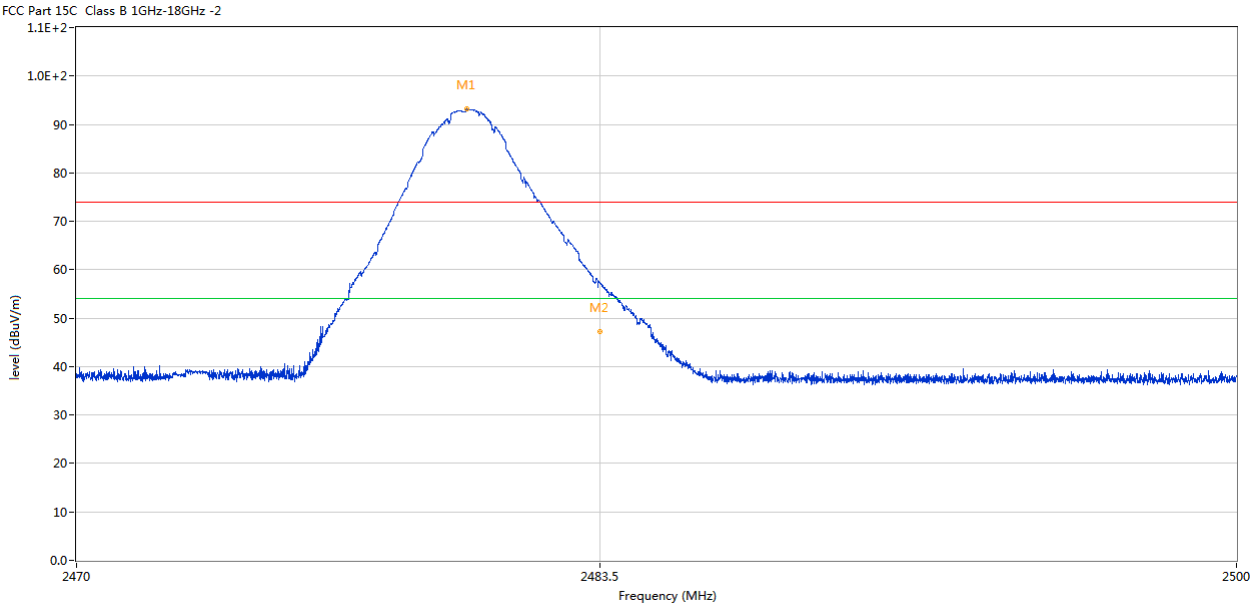
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12.4 Restrict Band Measurement

EUT	VR Headset	Model	CVR-255-64
Mode	Keep Transmitting	Input Voltage	DC3.8V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Modulation Type	GFSK



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480.055	93.18	-3.57	74.0	19.18	Peak	212.00	100	Vertical	N/A
2	2483.500	57.25	-3.57	74.0	-16.75	Peak	207.00	100	Vertical	Pass
2*	2483.500	47.18	-3.57	54.0	47.18	AV	207.00	100	Vertical	Fail

Note: 1. For Restricted band test, only the worst case was reported and GFSK was the worst case

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions

FPC antenna used. The gain of the antennas is 1.90dBi (Get from the antenna specification provided the manufacturer)

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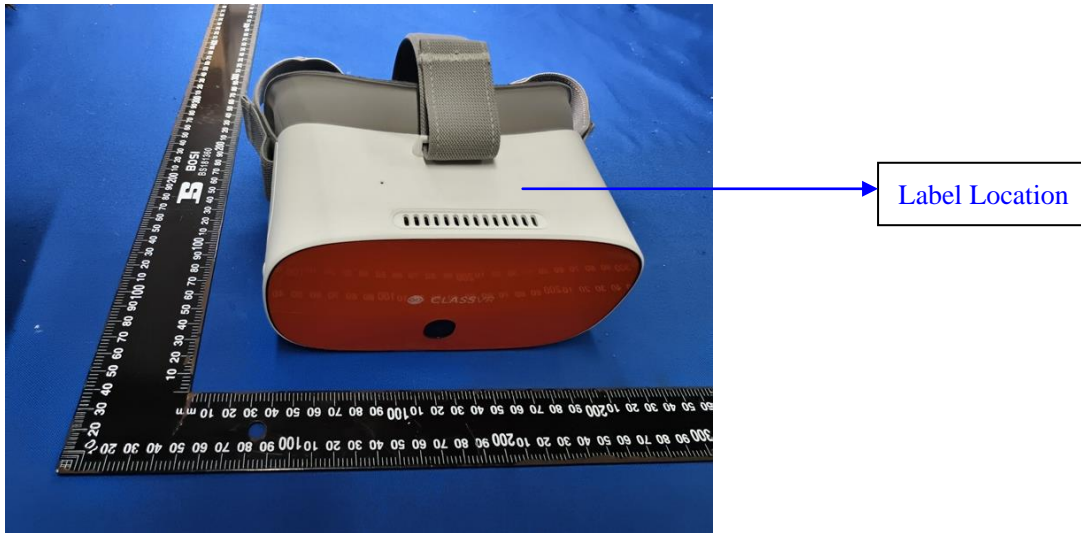
14.0 FCC ID Label

FCC ID: 2BNWDCVR-355-128M

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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15.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup:



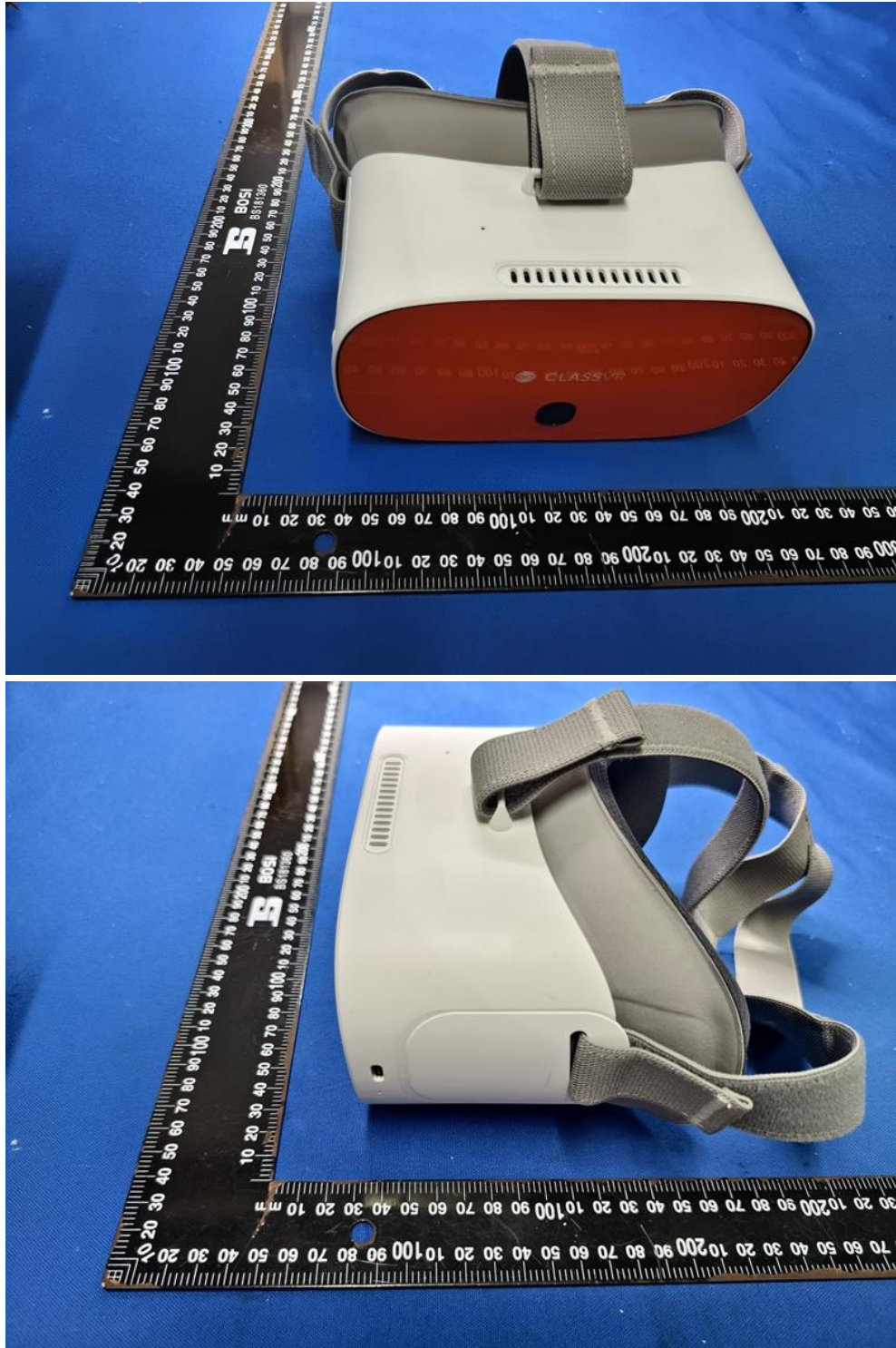
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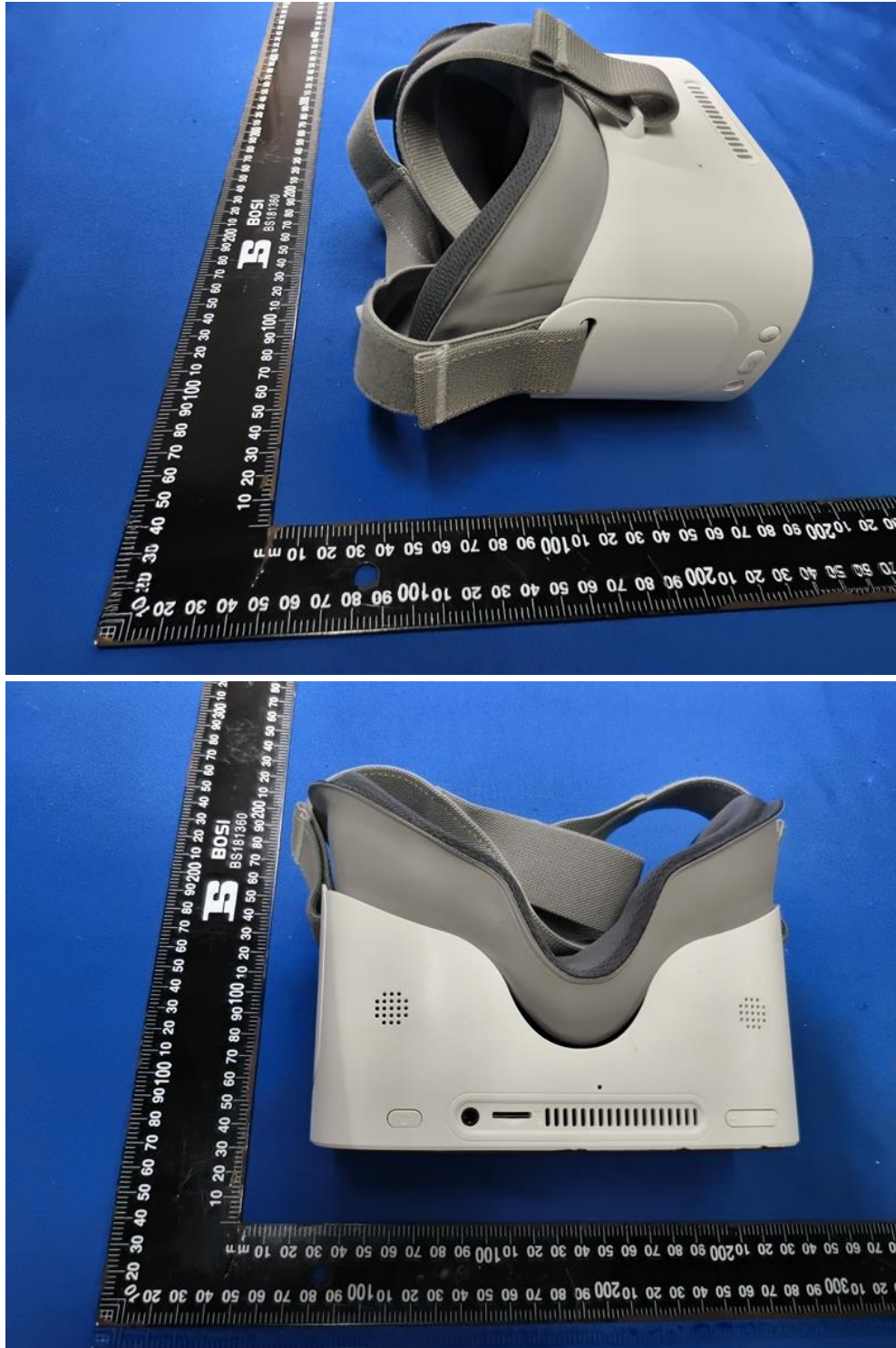
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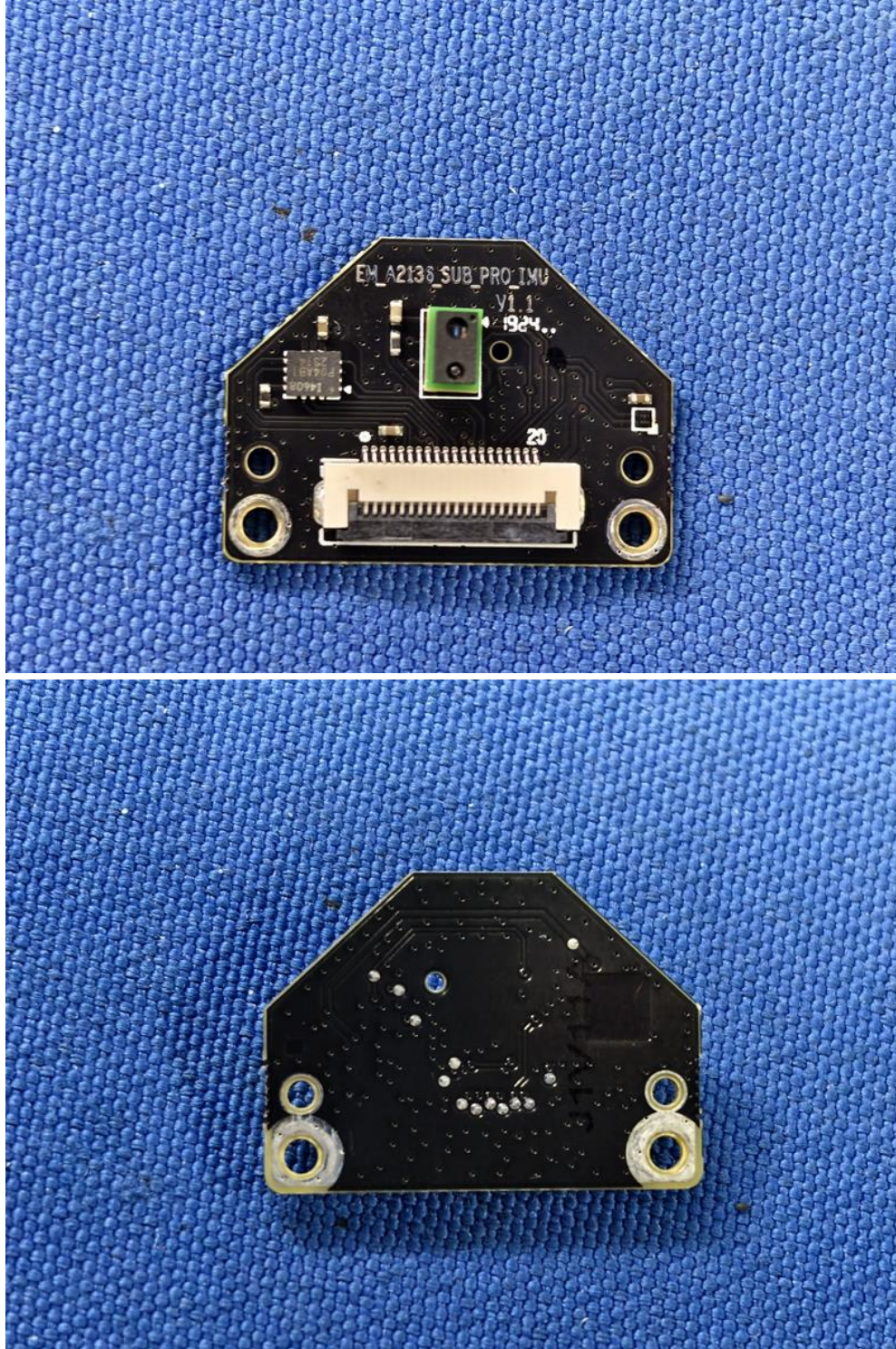
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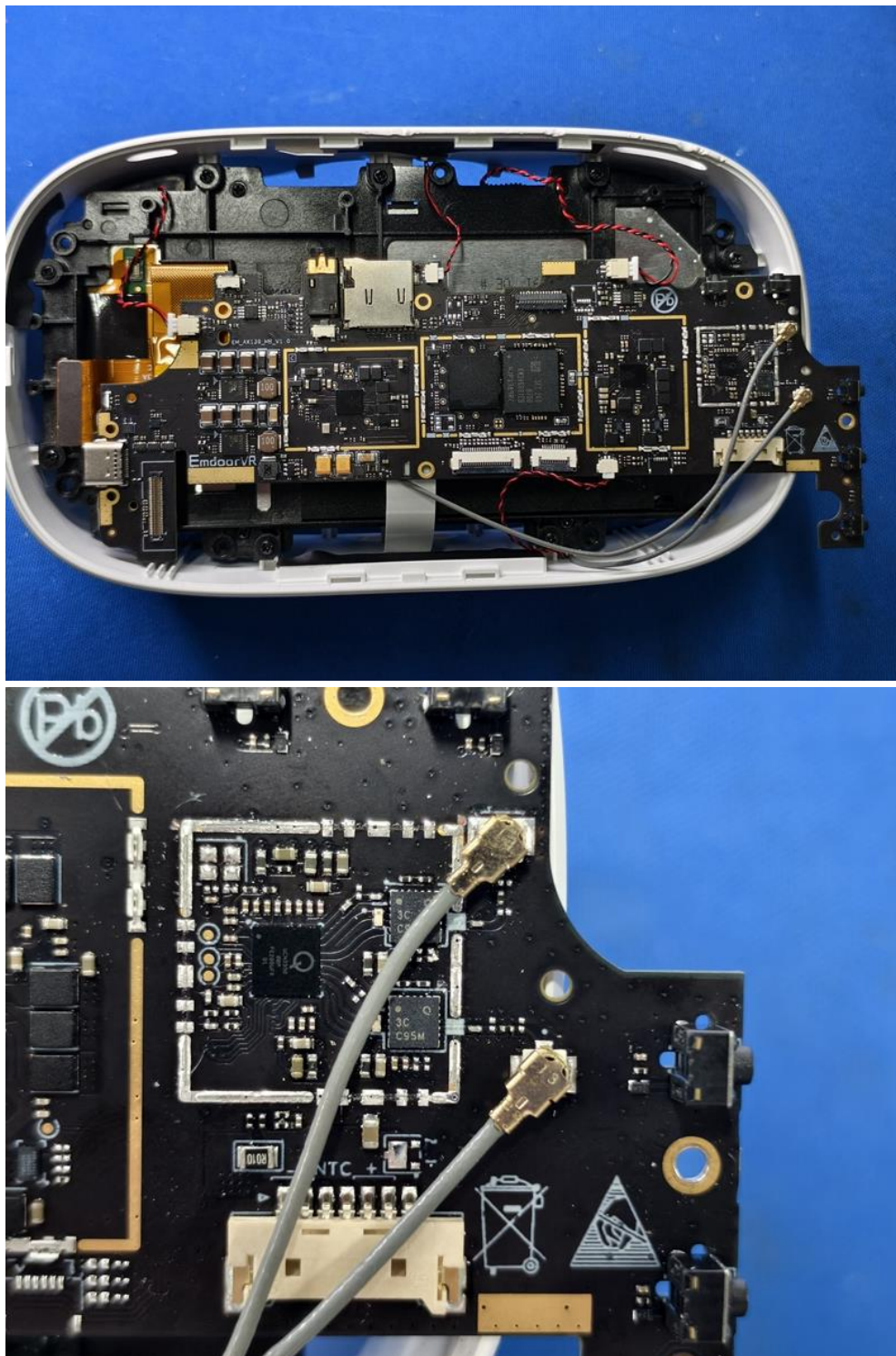
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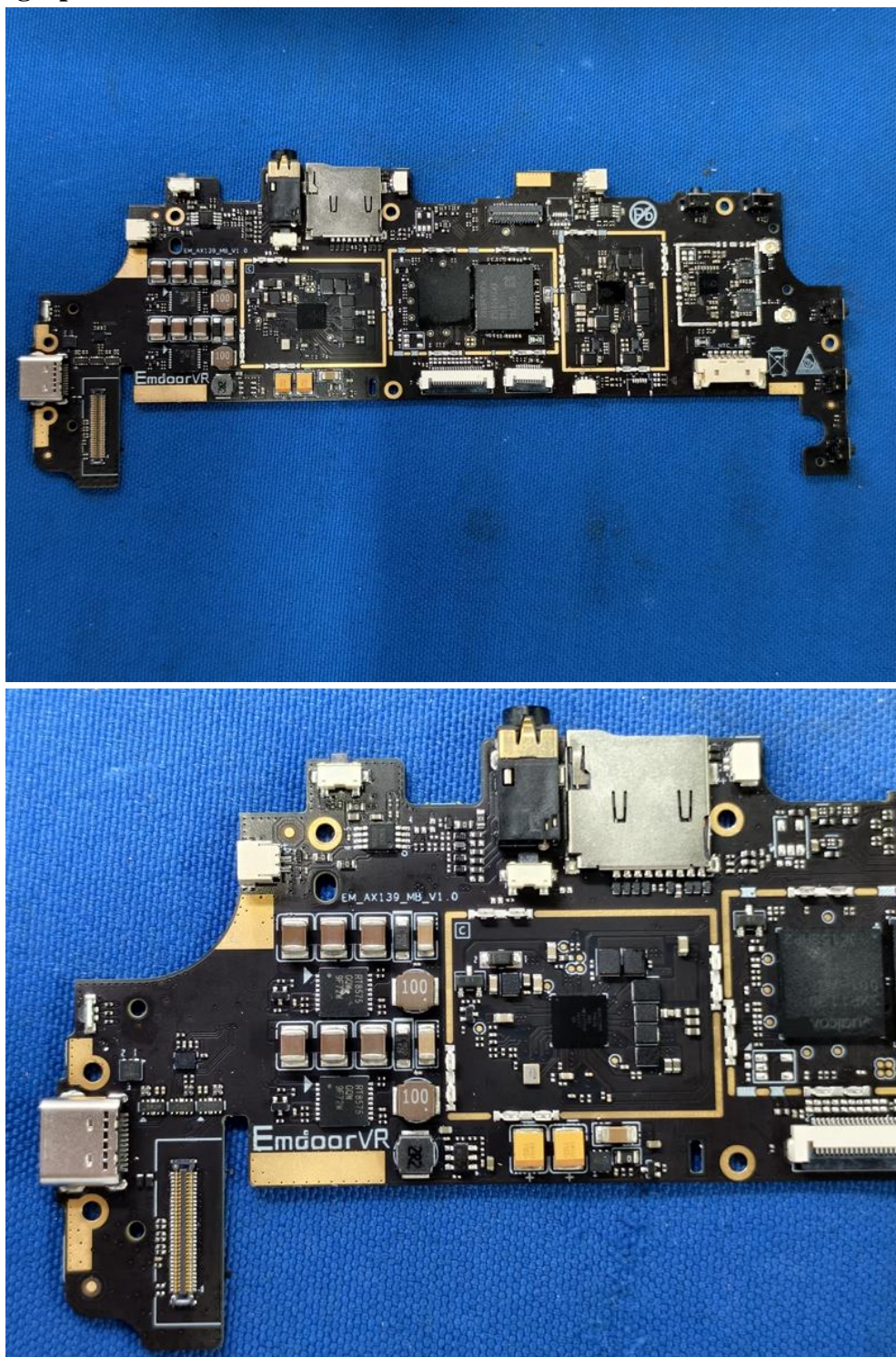
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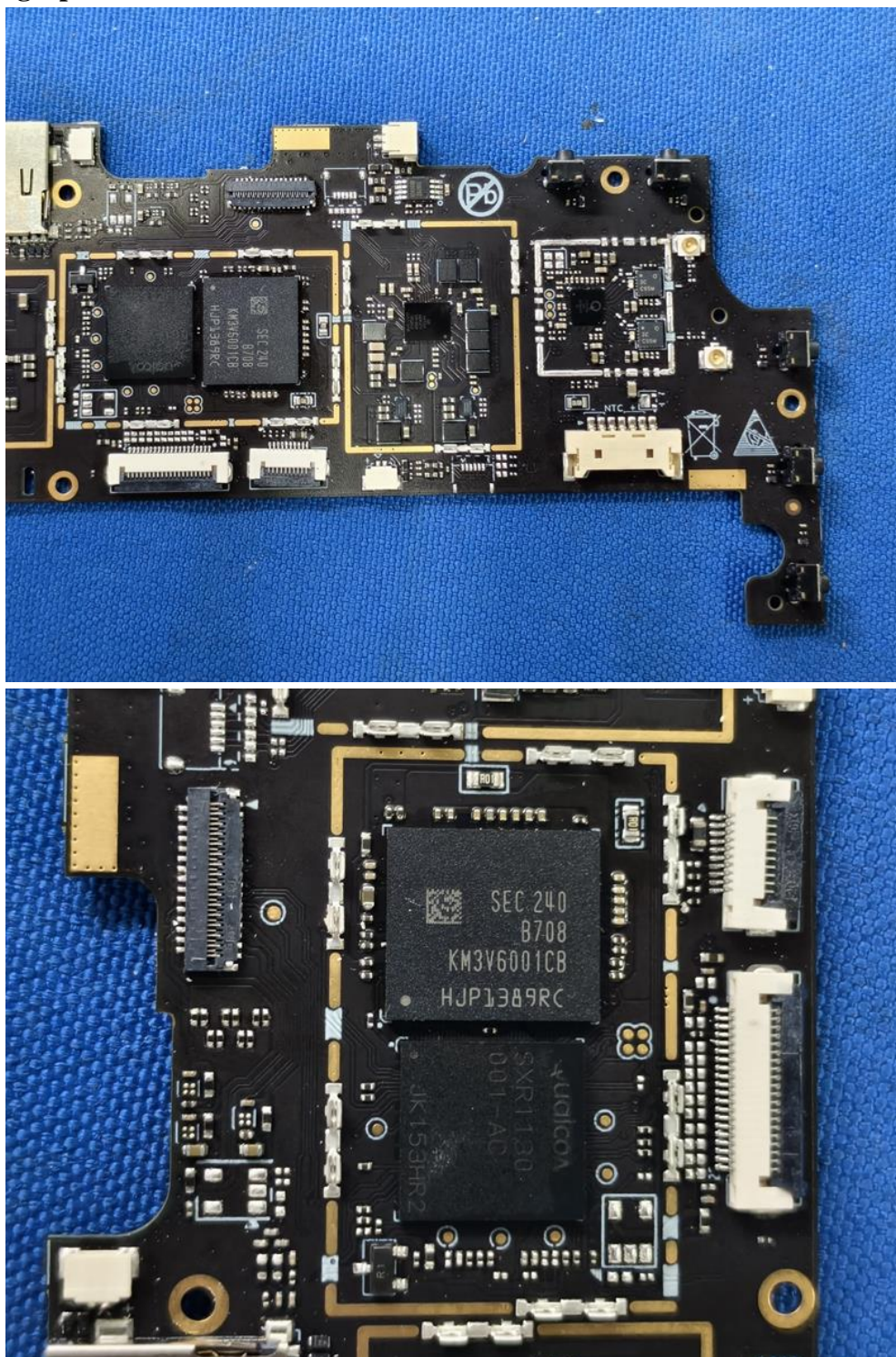
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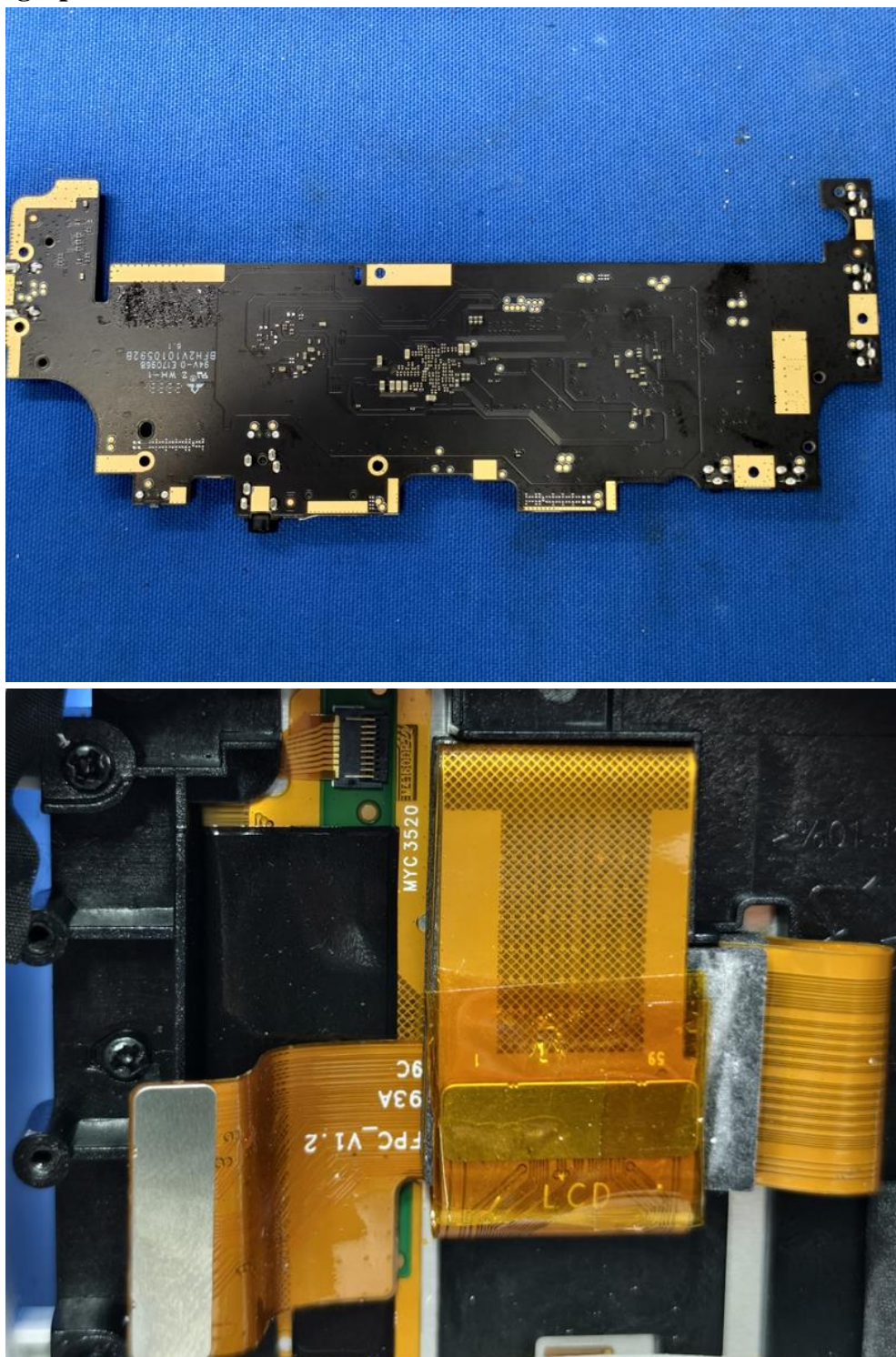
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