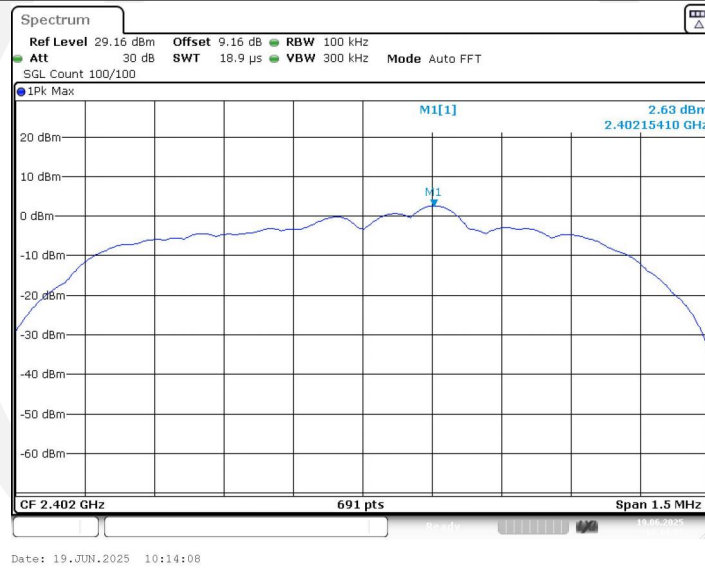
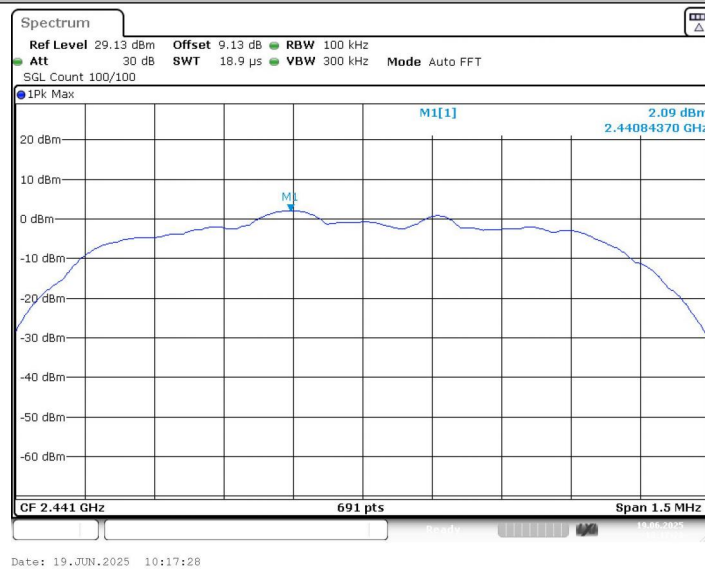




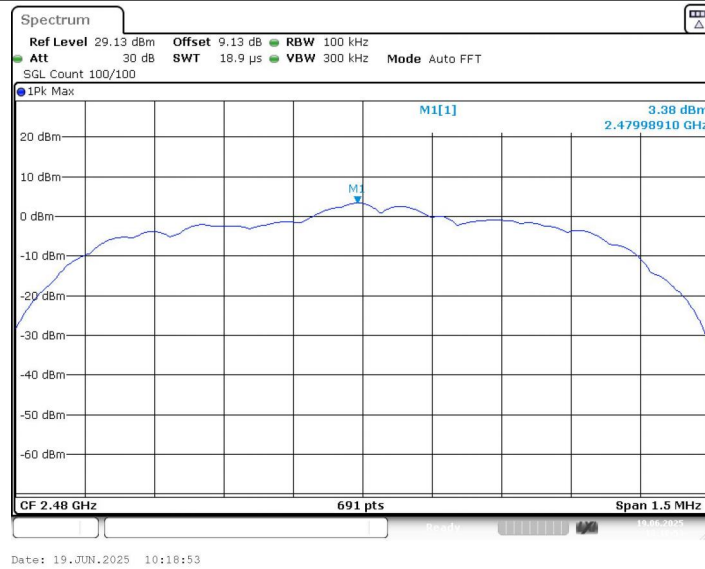
2DH5_Ant1_2402



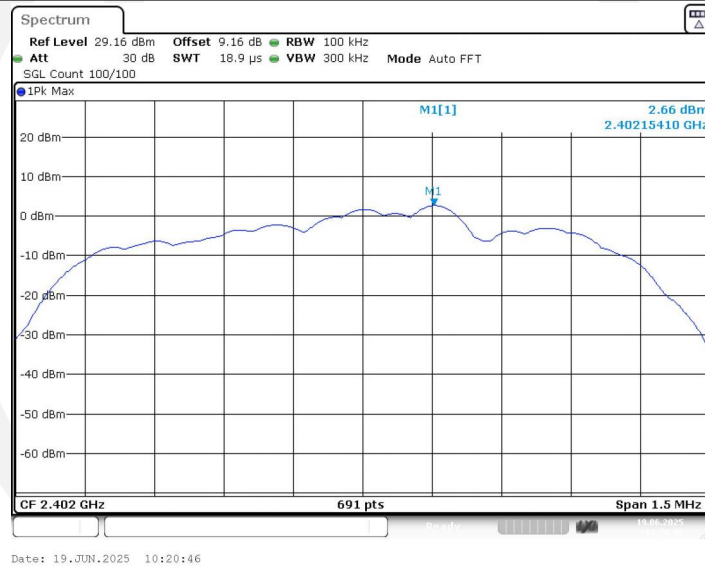
2DH5_Ant1_2441



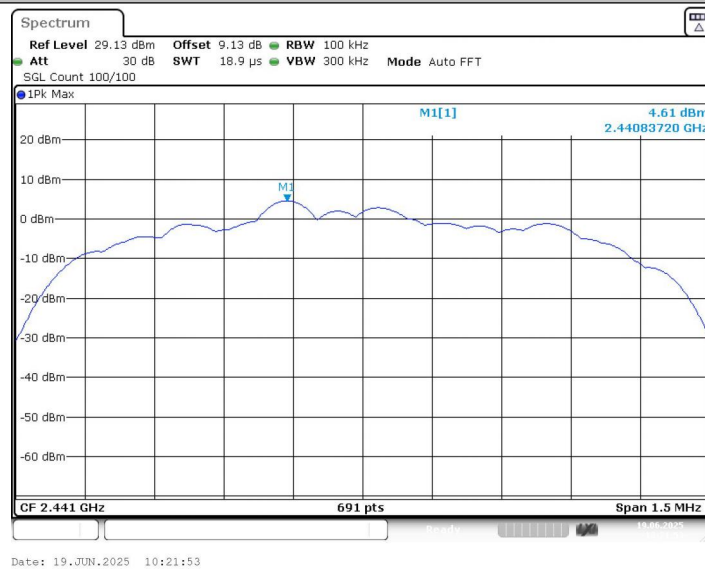
2DH5_Ant1_2480



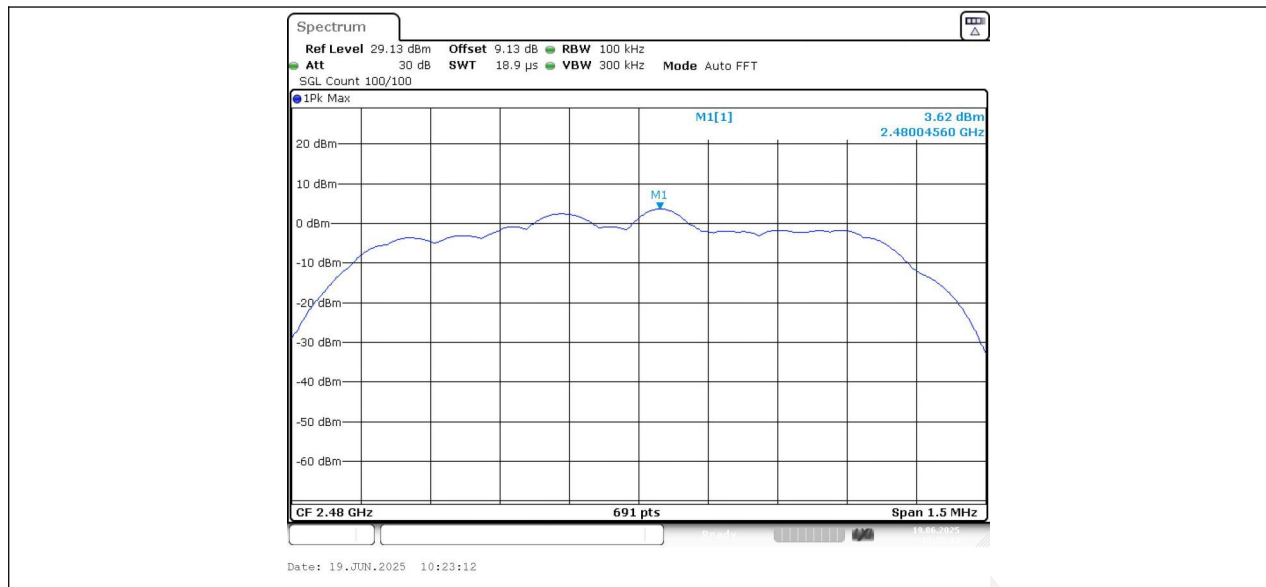
3DH5_Ant1_2402



3DH5_Ant1_2441

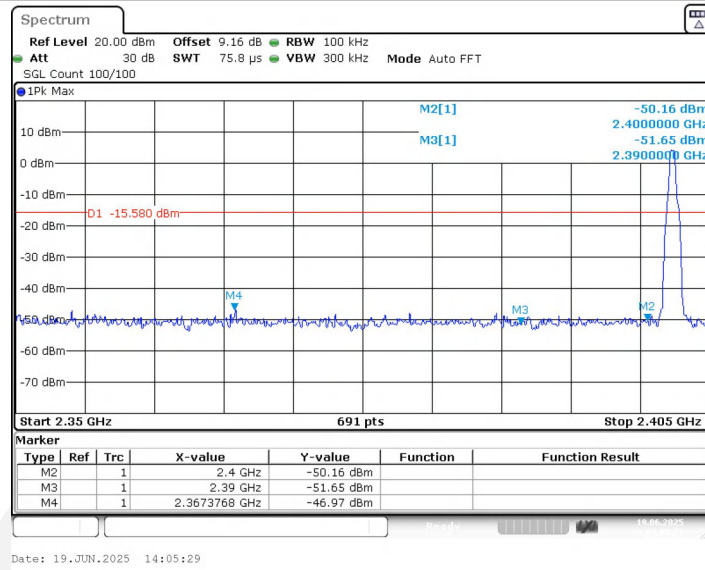


3DH5_Ant1_2480

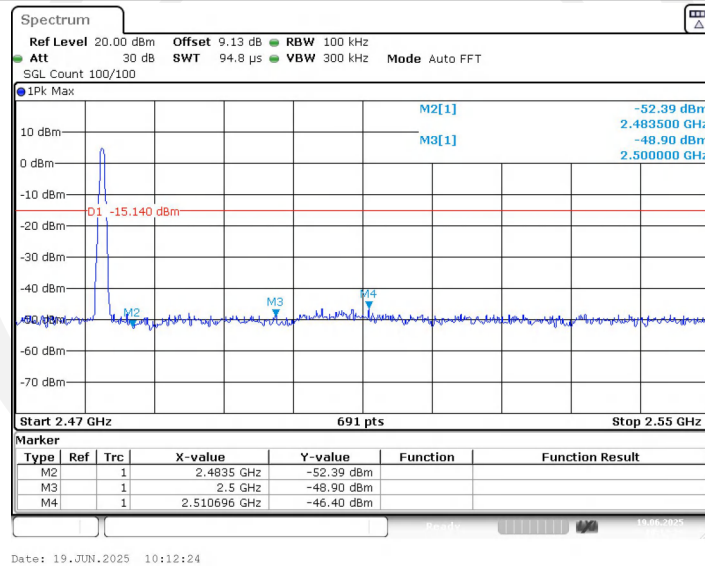
**Band Edge: Pass**

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.42	-46.97	≤ -15.58	PASS
		High	2480	4.86	-46.4	≤ -15.14	PASS
		Low	Hop_2402	4.05	-47.16	≤ -15.95	PASS
		High	Hop_2480	4.99	-45.85	≤ -15.01	PASS
2DH5	Ant1	Low	2402	2.63	-47.77	≤ -17.37	PASS
		High	2480	3.38	-46.19	≤ -16.62	PASS
		Low	Hop_2402	-1.29	-47.52	≤ -21.29	PASS
		High	Hop_2480	4.45	-45.86	≤ -15.55	PASS
3DH5	Ant1	Low	2402	2.66	-46.58	≤ -17.34	PASS
		High	2480	3.62	-46.79	≤ -16.38	PASS
		Low	Hop_2402	1.73	-46.81	≤ -18.27	PASS
		High	Hop_2480	0.51	-45.81	≤ -19.49	PASS

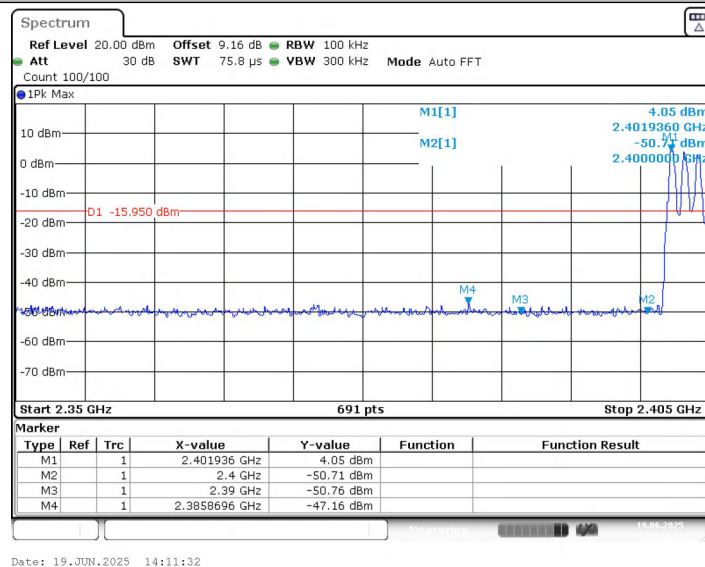
DH5_Ant1_Low_2402



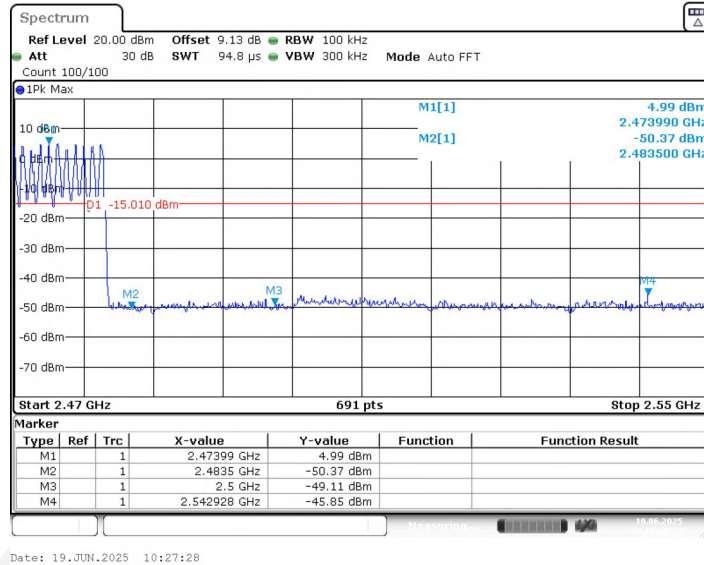
DH5_Ant1_High_2480



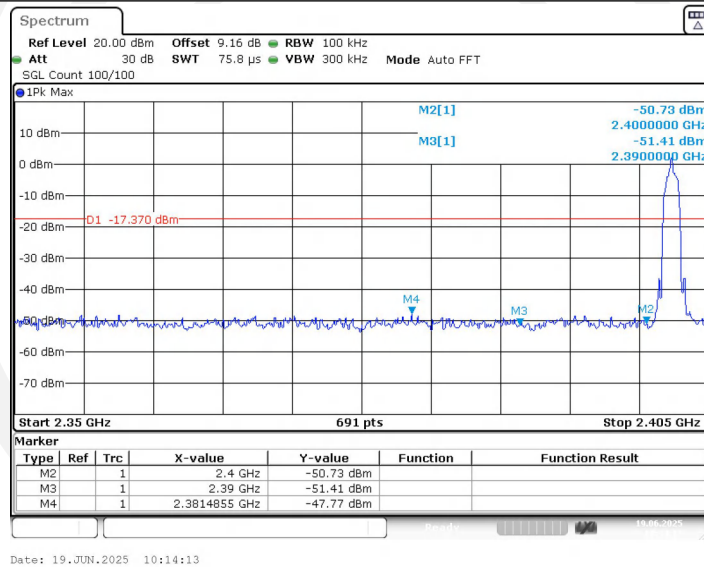
DH5_Ant1_Low_Hop_2402



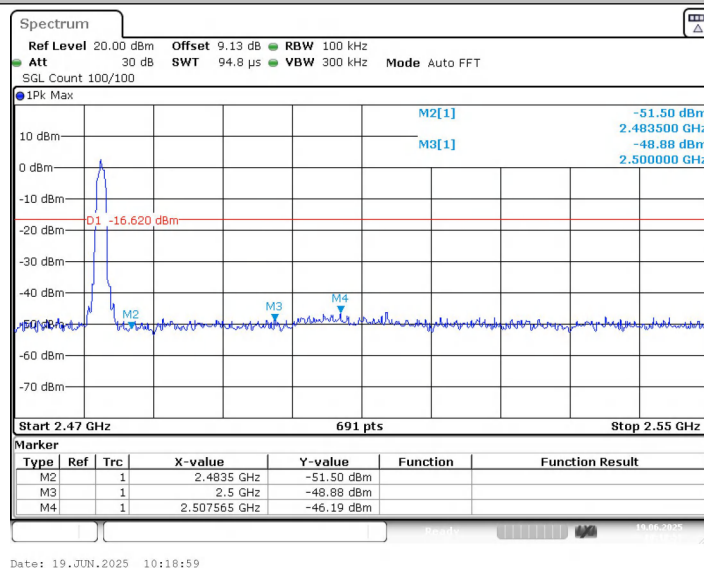
DH5_Ant1_High_Hop_2480



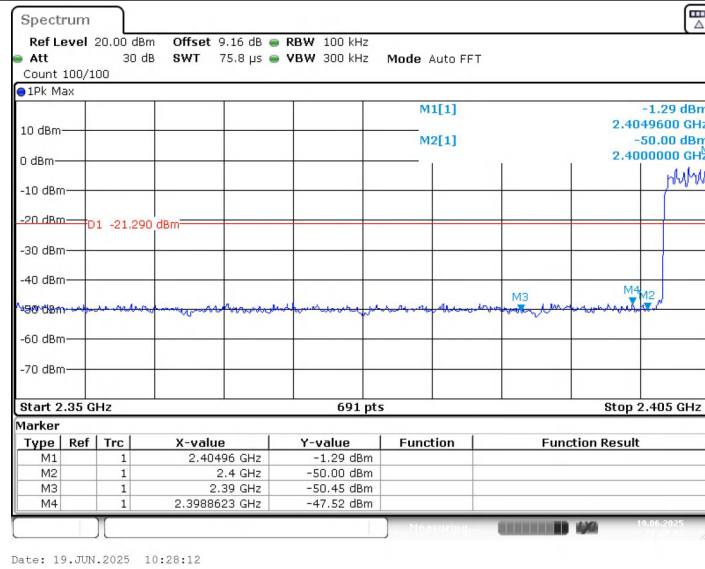
2DH5_Ant1_Low_2402



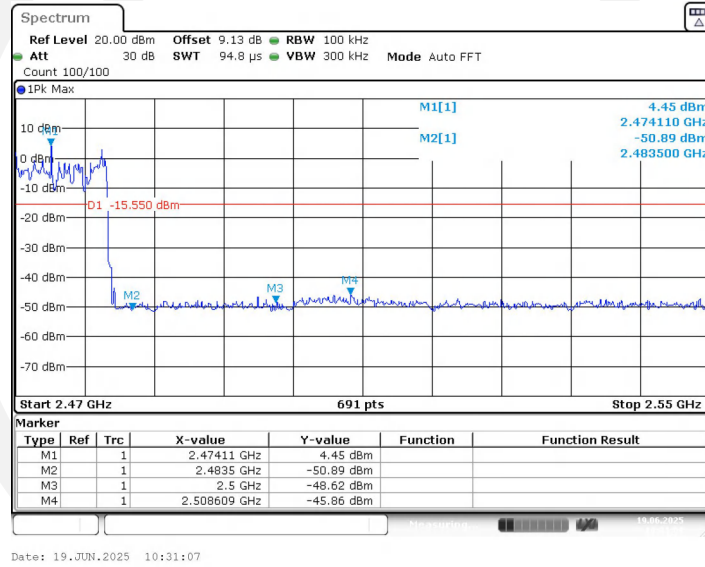
2DH5_Ant1_High_2480



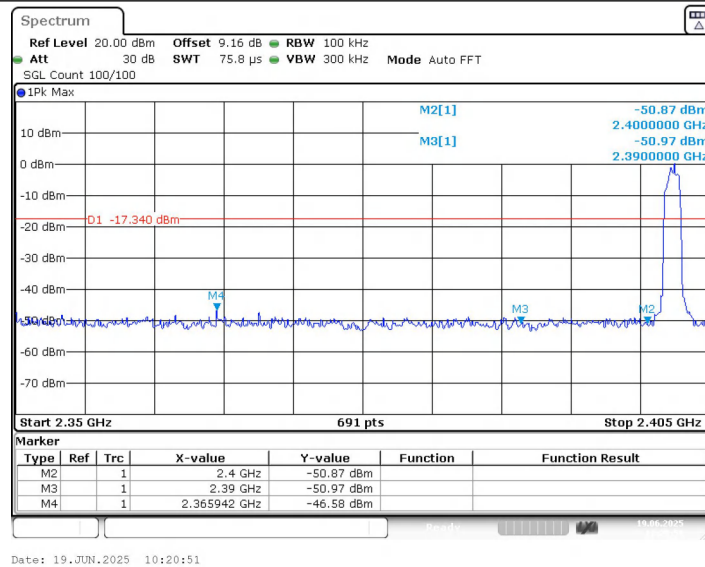
2DH5_Ant1_Low_Hop_2402



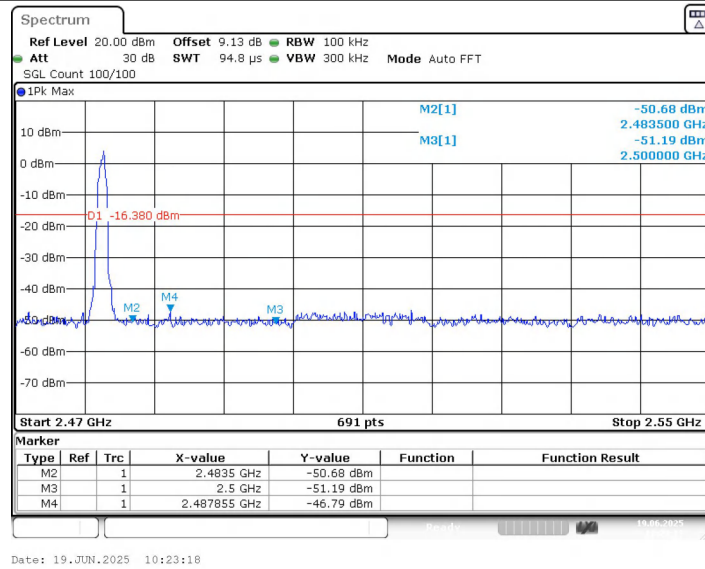
2DH5_Ant1_High_Hop_2480



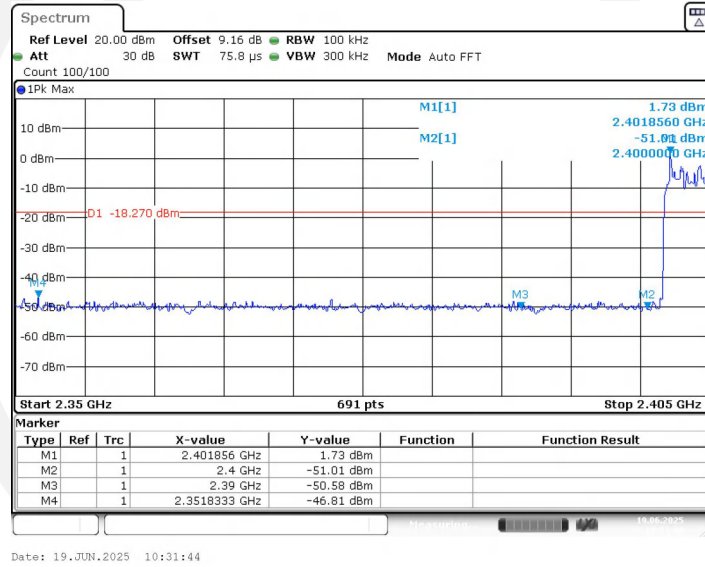
3DH5_Ant1_Low_2402



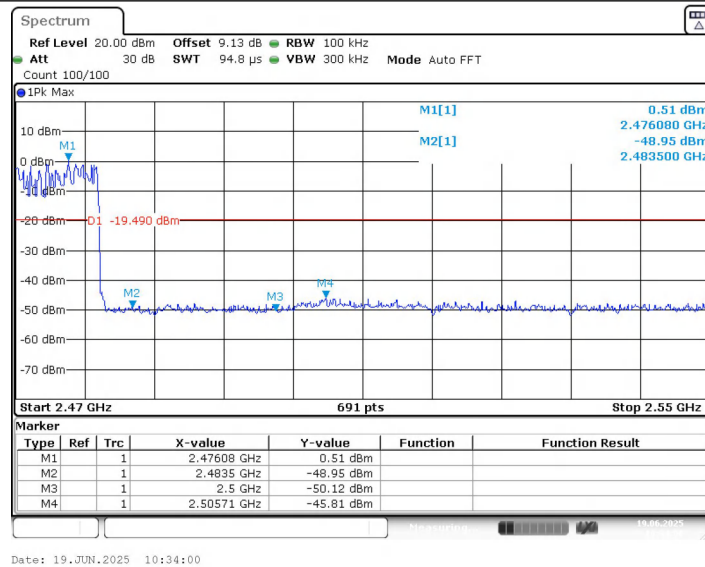
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



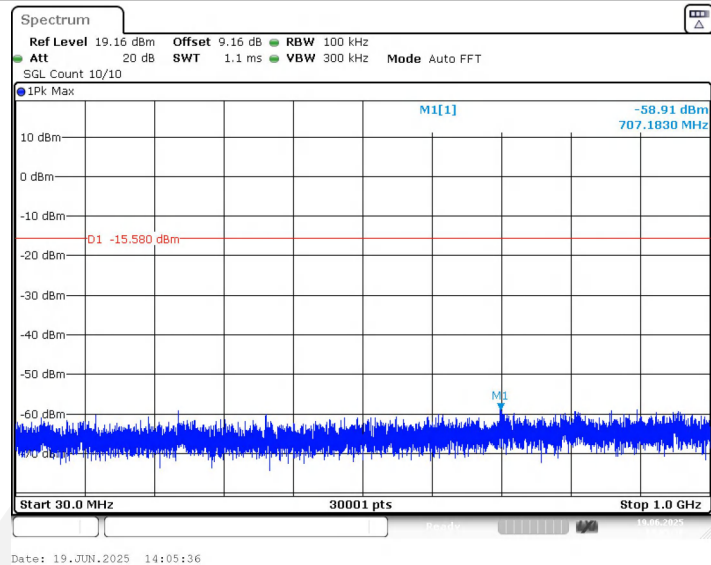
3DH5_Ant1_High_Hop_2480



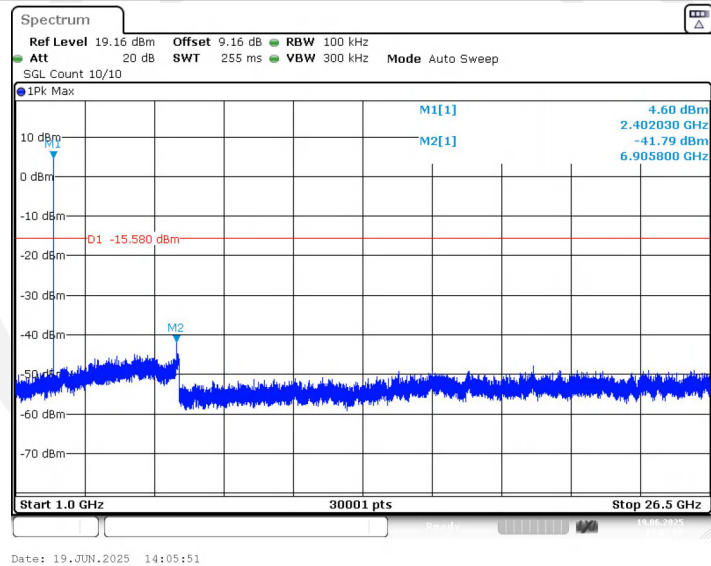
Conducted spurious emission: Pass

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	4.42	-58.91	≤-15.58	PASS
			1000~26500	4.42	-41.79	≤-15.58	PASS
		2441	30~1000	4.68	-57.45	≤-15.32	PASS
			1000~26500	4.68	-43.82	≤-15.32	PASS
		2480	30~1000	4.86	-59.21	≤-15.14	PASS
			1000~26500	4.86	-43.46	≤-15.14	PASS
2DH5	Ant1	2402	30~1000	2.63	-58.75	≤-17.37	PASS
			1000~26500	2.63	-43.68	≤-17.37	PASS
		2441	30~1000	2.09	-58.47	≤-17.91	PASS
			1000~26500	2.09	-43.96	≤-17.91	PASS
		2480	30~1000	3.38	-58.75	≤-16.62	PASS
			1000~26500	3.38	-44.27	≤-16.62	PASS
3DH5	Ant1	2402	30~1000	2.66	-58.45	≤-17.34	PASS
			1000~26500	2.66	-44.17	≤-17.34	PASS
		2441	30~1000	4.61	-56.89	≤-15.39	PASS
			1000~26500	4.61	-44.67	≤-15.39	PASS
		2480	30~1000	3.62	-58.16	≤-16.38	PASS
			1000~26500	3.62	-44.67	≤-16.38	PASS

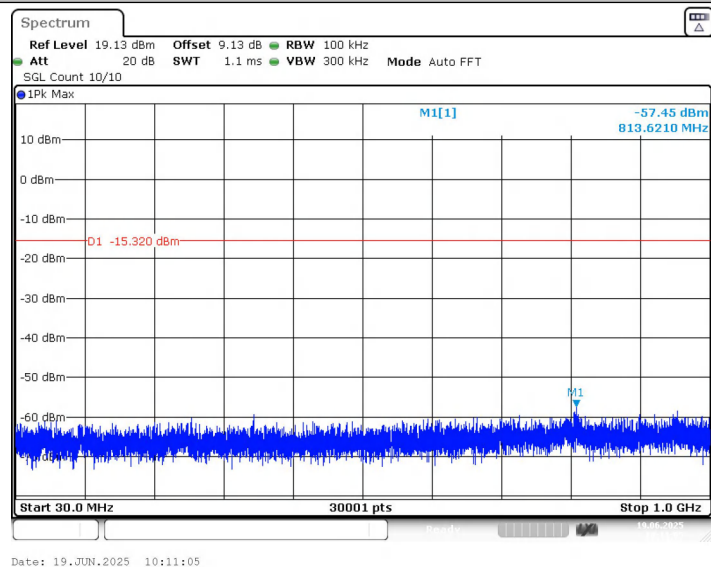
DH5_Ant1_2402_30~1000



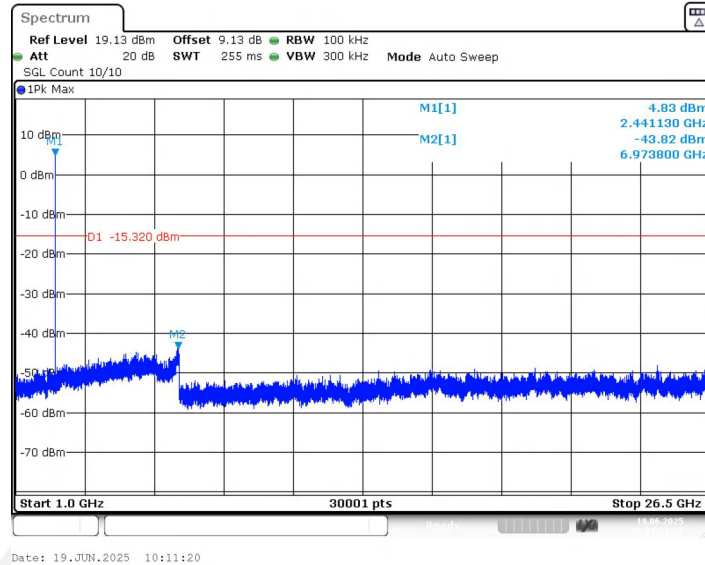
DH5_Ant1_2402_1000~26500



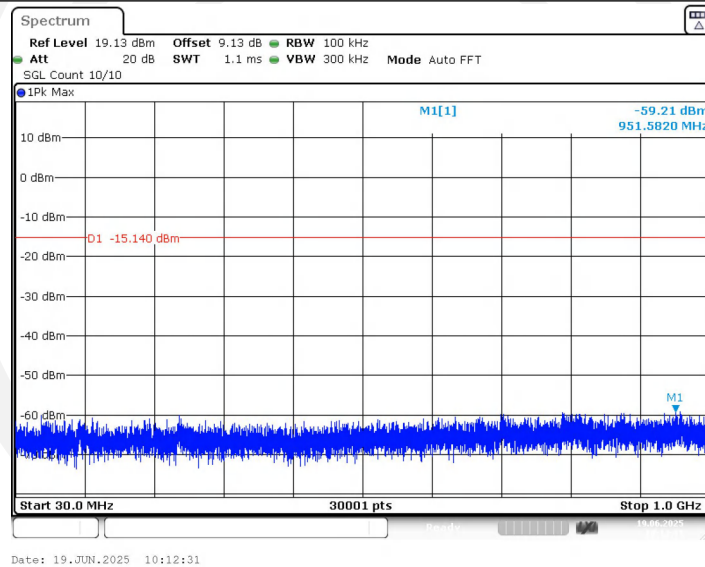
DH5_Ant1_2441_30~1000



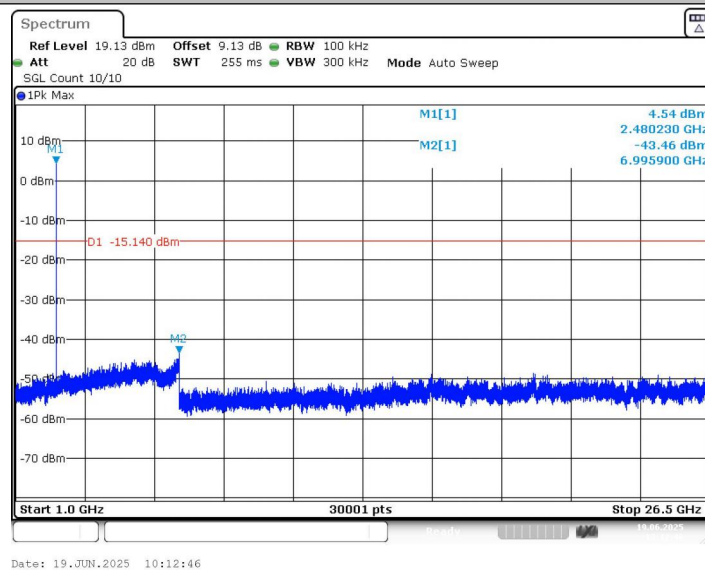
DH5_Ant1_2441_1000~26500



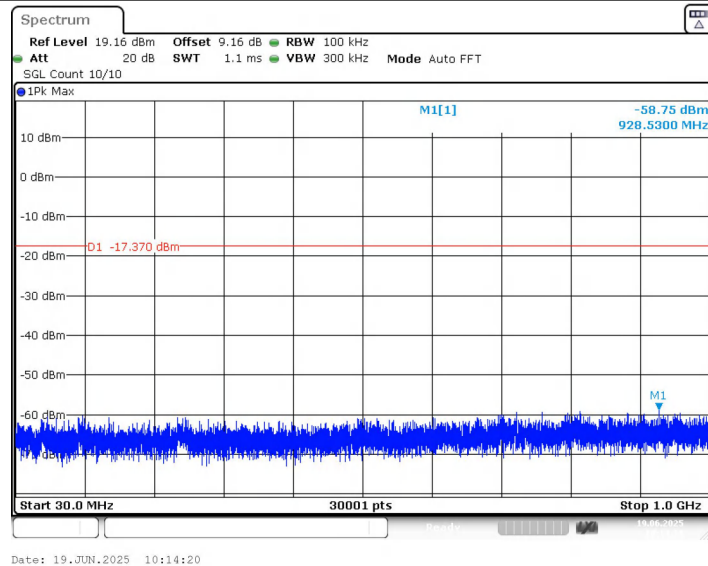
DH5_Ant1_2480_30~1000



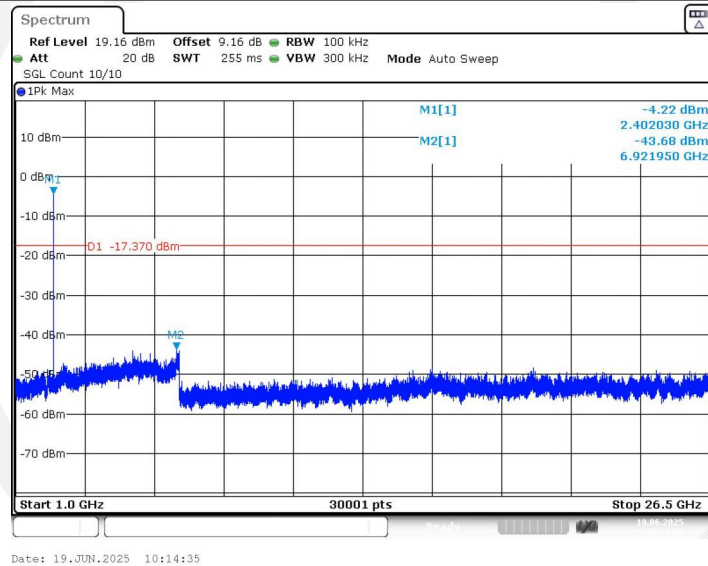
DH5_Ant1_2480_1000~26500



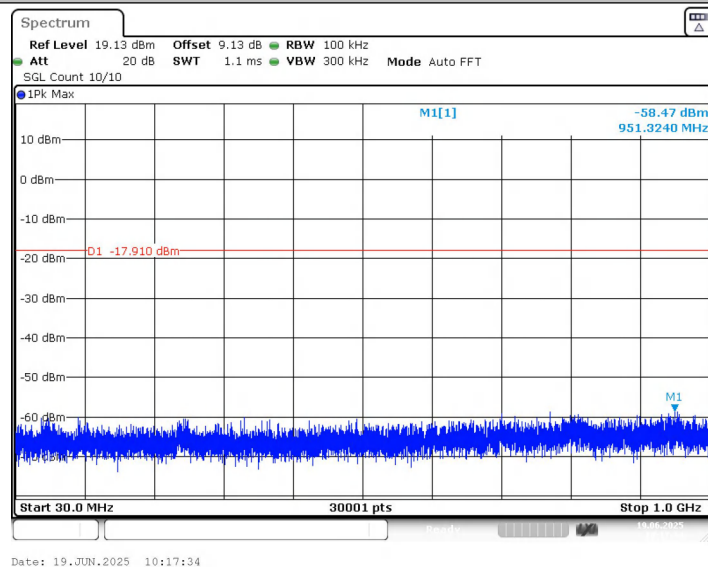
2DH5_Ant1_2402_30~1000



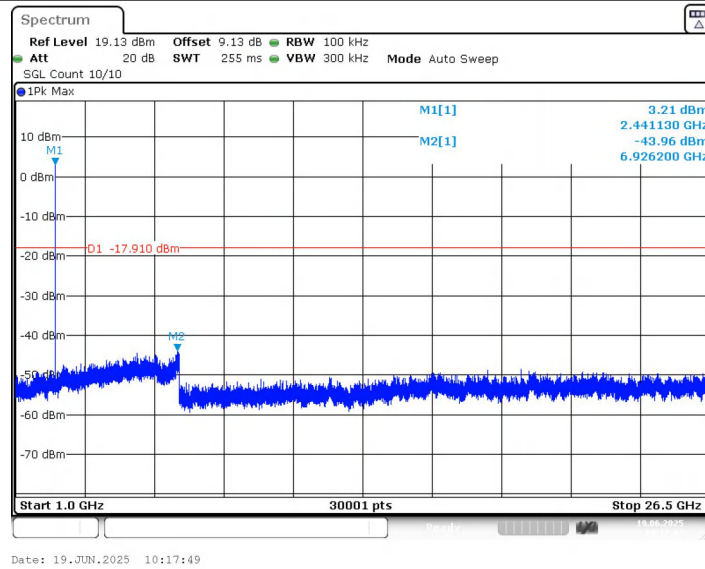
2DH5_Ant1_2402_1000~26500



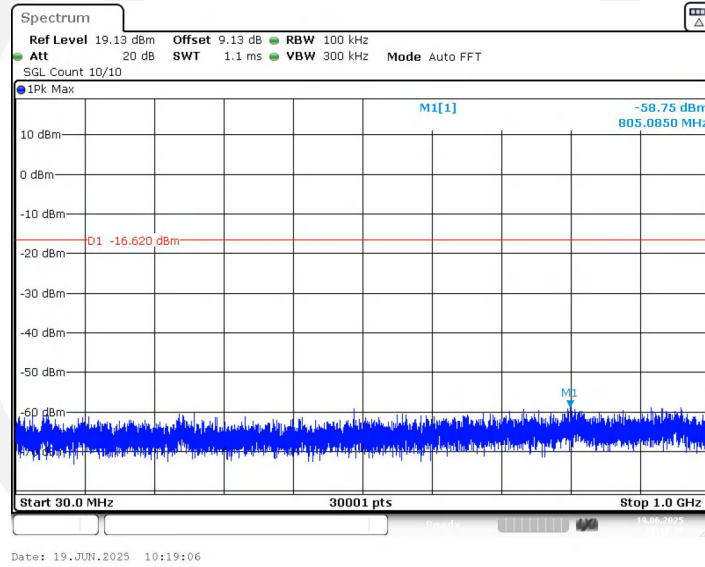
2DH5_Ant1_2441_30~1000



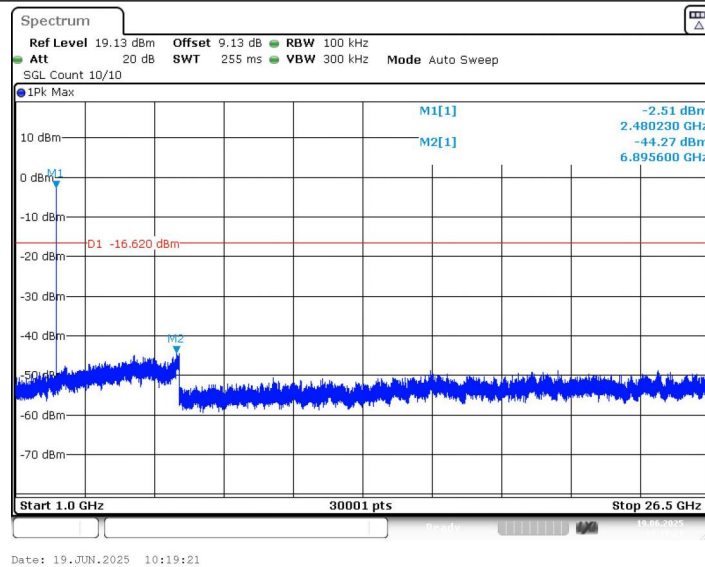
2DH5_Ant1_2441_1000~26500



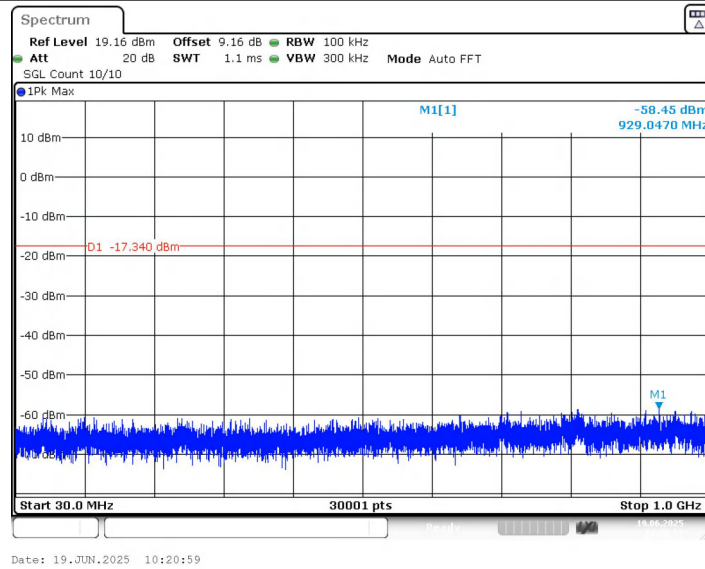
2DH5_Ant1_2480_30~1000



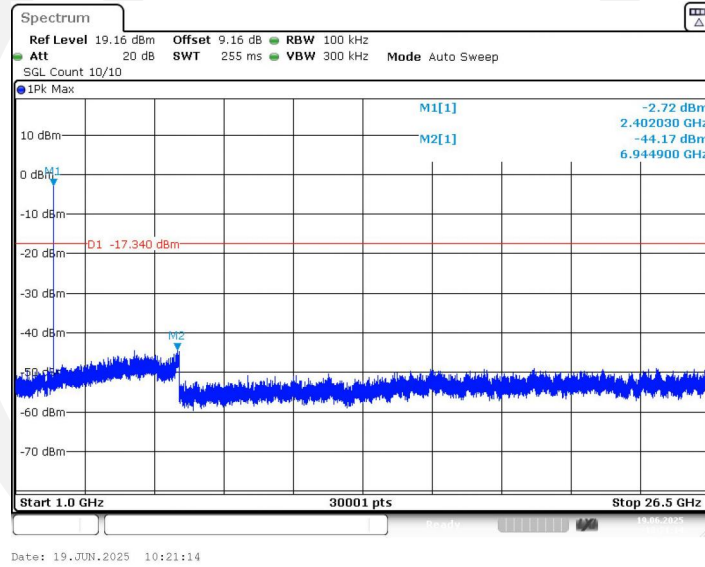
2DH5_Ant1_2480_1000~26500



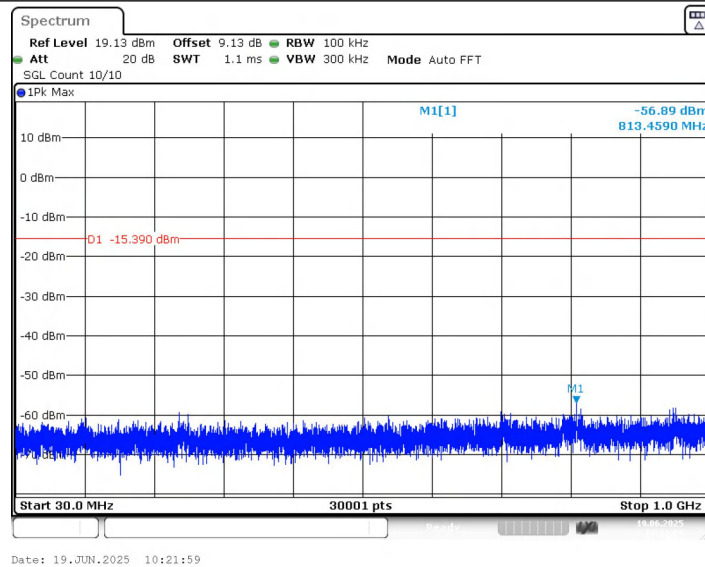
3DH5_Ant1_2402_30~1000



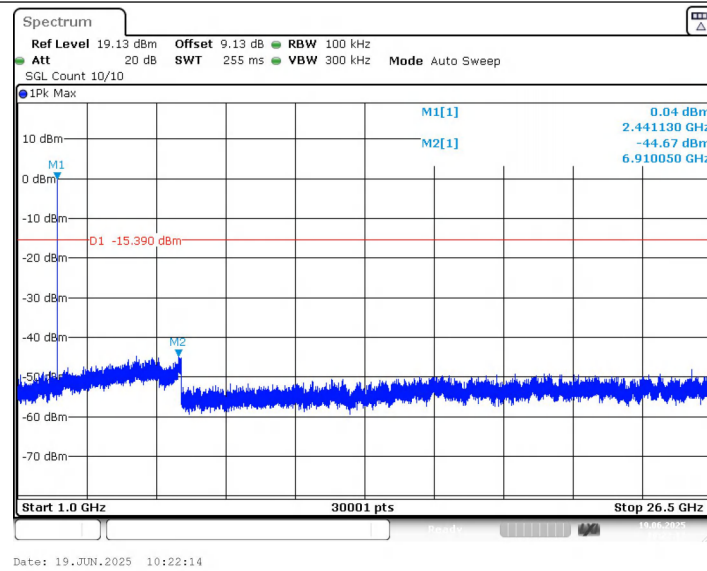
3DH5_Ant1_2402_1000~26500



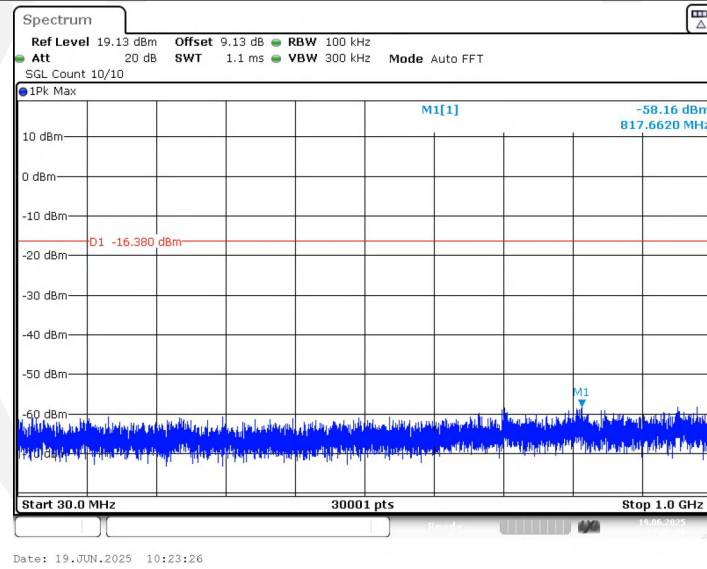
3DH5_Ant1_2441_30~1000



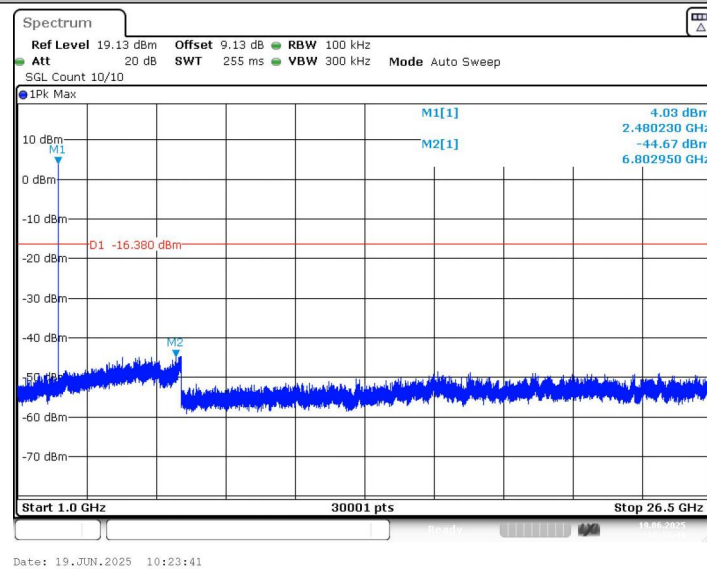
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



9. Spurious Emission

9.1. Test Limits

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: The peak limit is 20 dB higher than the average limit

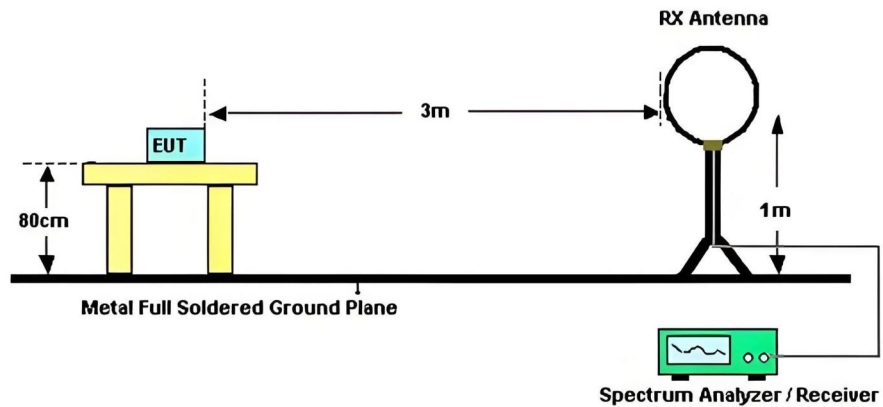
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

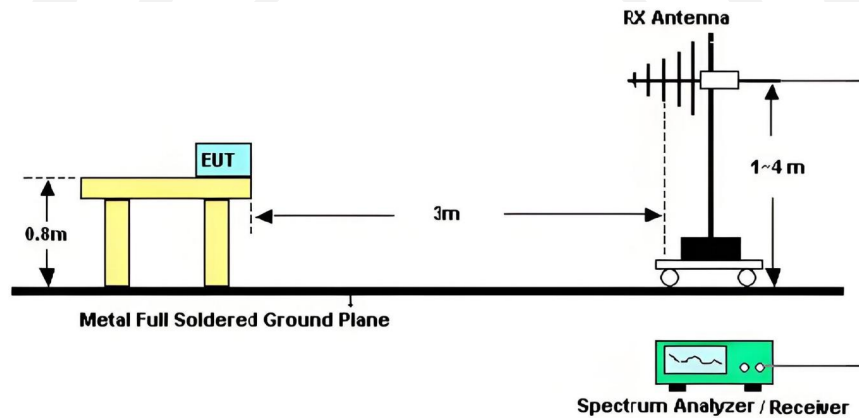
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 -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

9.2. Block Diagram of Test setup

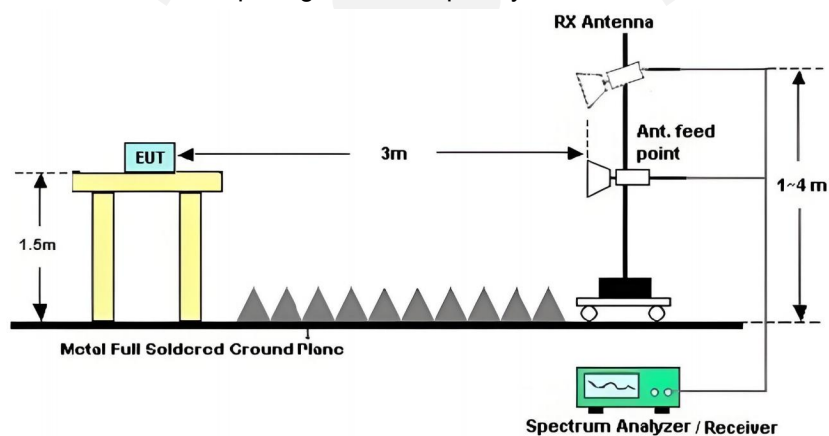
a. In 3m Anechoic Chamber Test Setup Diagram for below 30MHz



b. In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



c. In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



9.3. Test Procedure

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and simulator
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
 - (a) Change work frequency or channel of device if practicable.
 - (b) Change modulation type of device if practicable.
 - (c) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9KHz to 25GHz (tenth harmonic of fundamental frequency) was investigated
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 +Errata to C63.10a-2024 on Radiated Emission test.
- (6) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure; RBW is set at 1MHz, VBW>[1 / (minimum transmitter on time)] and no less than 1Hz for Average measure.

Test setup information:

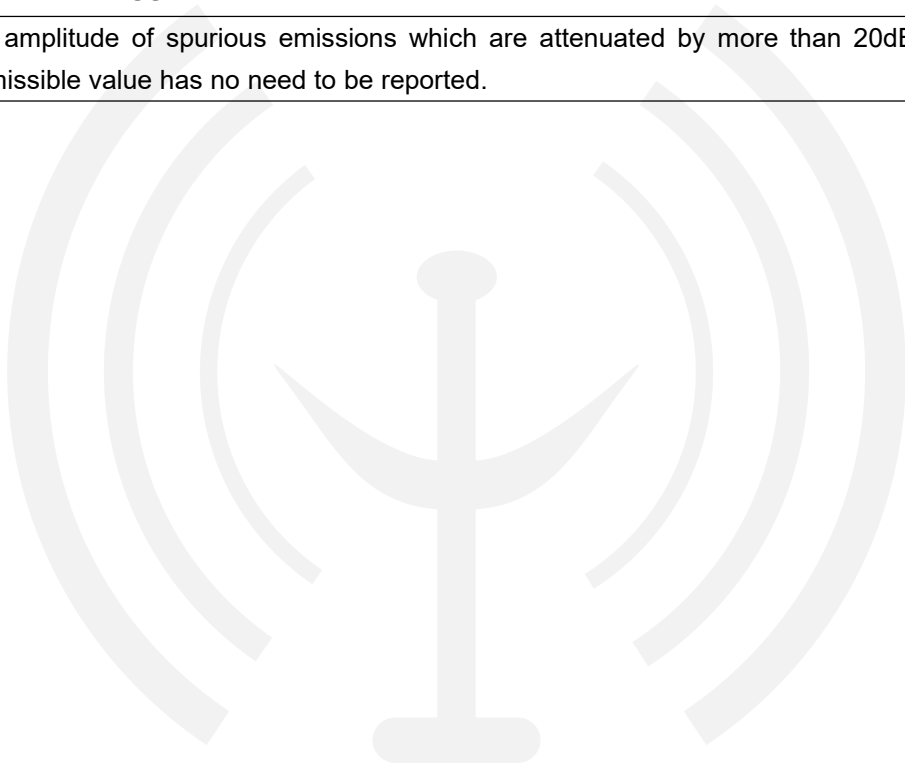
9KHz~150KHz	RBW 200Hz	VBW 1KHz
150KHz~30MHz	RBW 9KHz	VBW 30KHz
30MHz~1GHz	RBW 120KHz	VBW 300KHz
Above1GHz	RBW 1MHz	VBW 3MHz

9.4. Test Results

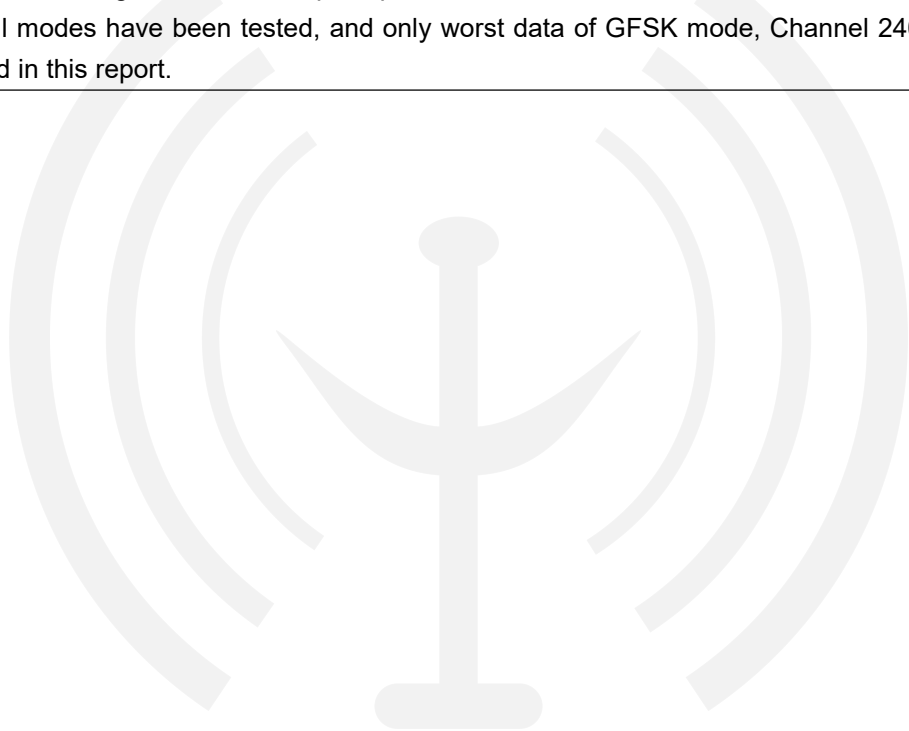
We have scanned from 9kHz to the 10th harmonic of the EUT's highest frequency.

Detailed information please see the following page.

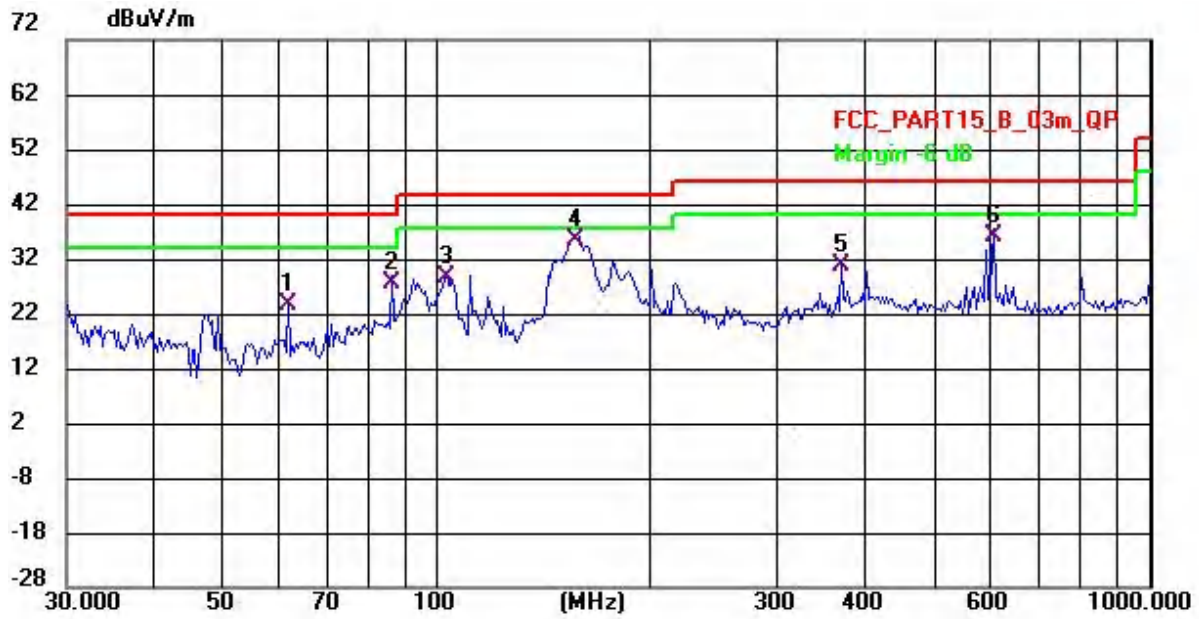
From 9KHz to 30MHz:	
Test Date : 2025.07.10	Temperature : 26°C
Test Engineer : Felix Pang	Humidity : 54%
Test Mode : GFSK mode	
Test voltage : AC 120V/60Hz	
Test Results : PASS	
Note:	The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



From 30MHz to 1000MHz:	
Test Date : 2025.07.10	Temperature : 26℃
Test Engineer : Felix Pang	Humidity : 54%
Test Mode : GFSK mode	
Test voltage : AC 120V/60Hz	
Test Results : PASS	
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.



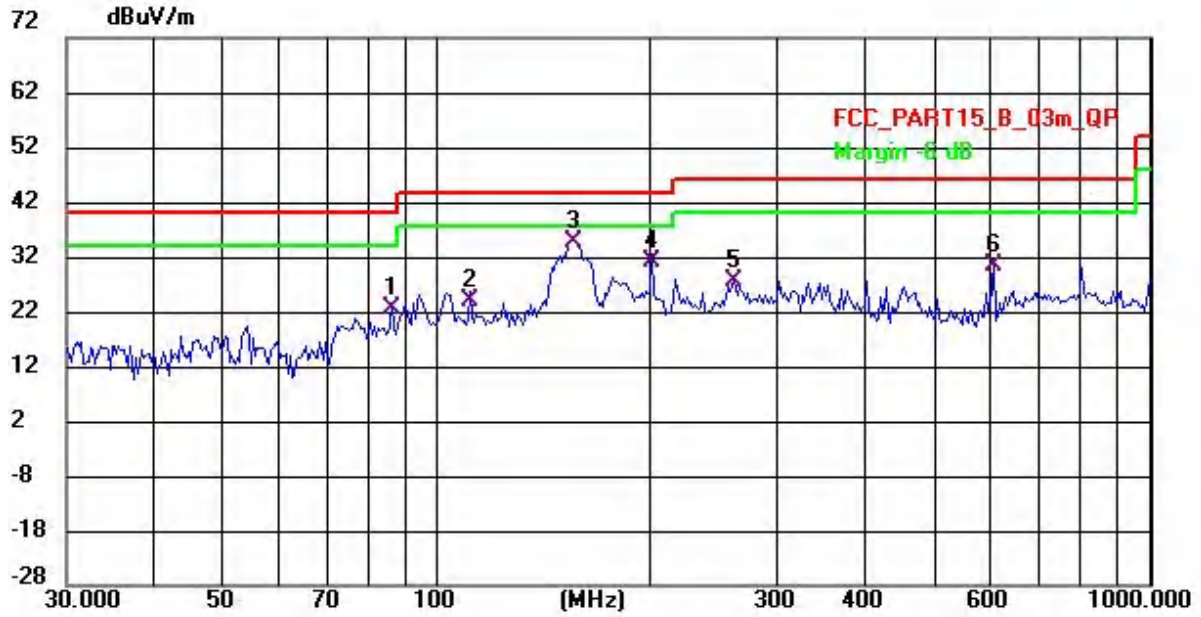
Polarization: Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	61.4343	46.34	-22.76	23.58	40.00	-16.42	QP
2	86.0794	53.43	-25.80	27.63	40.00	-12.37	QP
3	102.6115	53.17	-24.56	28.61	43.50	-14.89	QP
4 *	156.4258	56.06	-20.75	35.31	43.50	-8.19	QP
5	368.6681	50.69	-20.11	30.58	46.00	-15.42	QP
6	602.9287	49.72	-13.71	36.01	46.00	-9.99	QP

Note: Margin = Level - Limit = Reading + factor - Limit

Polarization: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	86.0794	48.21	-25.80	22.41	40.00	-17.59	QP
2	110.8580	47.77	-23.76	24.01	43.50	-19.49	QP
3 *	155.3305	55.31	-20.76	34.55	43.50	-8.95	QP
4	200.0431	55.69	-24.67	31.02	43.50	-12.48	QP
5	261.2730	50.70	-23.07	27.63	46.00	-18.37	QP
6	602.9287	43.96	-13.71	30.25	46.00	-15.75	QP

Note: Margin = Level - Limit = Reading + factor - Limit

From 1GHz to 25GHz:	
Test Date : 2025.07.10	Temperature : 26℃
Test Engineer : Felix Pang	Humidity : 54%
Test Mode : GFSK, $\pi/4$ DQPSK, 8DPSK mode	
Test voltage : AC 120V/60Hz	
Test Results : PASS	
Remark	During the test, pre-scan GFSK, $\pi/4$ DQPSK, 8DPSK mode, found GFSK was worse case mode. The report only reflects the test data of worst mode.
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

Test Mode : GFSK TX Low										
No.	Freq MHz	Reading (dBuV/m)	Polar (H/V)	Antenna Factor (dB)	Cable loss (dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	4804	53.36	V	33.93	10.18	34.26	63.21	74	-10.79	PK
2	4804	33.57	V	33.93	10.18	34.26	43.42	54	-10.58	AV
3	7206	/	/	/	/	/	/	/	/	/
4	9608	/	/	/	/	/	/	/	/	/
5	4804	52.89	H	33.93	10.18	34.26	62.74	74	-11.26	PK
6	4804	33.38	H	33.93	10.18	34.26	43.23	54	-10.77	AV
7	7206	--	--	--			/		/	--
8	9608	--	--	--			/		/	--
Test Mode : GFSK TX Mid										
1	4880	52.07	V	33.95	10.2	34.97	61.25	74	-12.75	PK
2	4880	32.38	V	33.95	10.2	34.97	41.56	54	-12.44	AV
3	7320	/	/	/	/	/	/	/	/	/
4	9760	/	/	/	/	/	/	/	/	/
5	4880	53.80	H	33.95	10.2	34.97	62.98	74	-11.02	PK
6	4880	32.81	H	33.95	10.2	34.97	41.99	54	-12.01	AV
7	7320	/	--	--			/	--	/	--
8	9760	/	--	--			/	--	/	--
Test Mode : GFSK TX High										
1	4960	52.47	V	33.98	10.22	34.25	62.42	74	-11.58	PK
2	4960	33.13	V	33.98	10.22	34.25	43.08	54	-10.92	AV
3	7440	/	/	/	/	/	/	/	/	/
4	9920	/	/	/	/	/	/	/	/	/
5	4960	53.50	H	33.98	10.22	34.25	63.45	74	-10.55	PK
6	4960	32.91	H	33.98	10.22	34.25	42.86	54	-11.14	AV
7	7440	--	--	--			--	--		--
8	9920	--	--	--			--	--	--	--

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

10. Band Edge Test

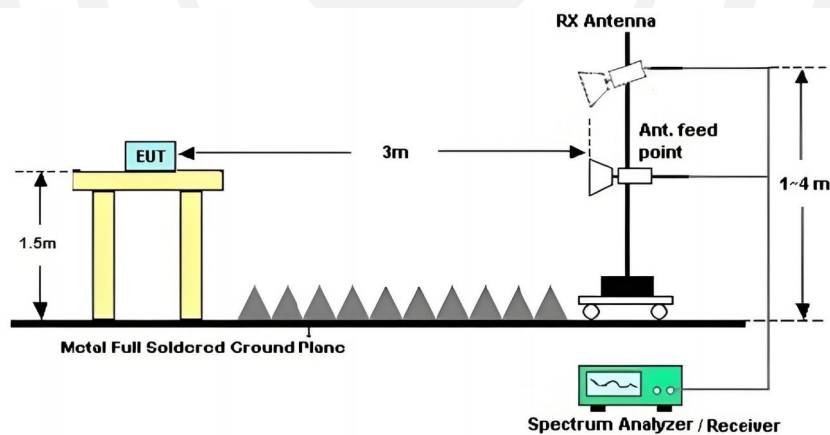
10.1. Test Limit

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`

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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241

10.2. Block Diagram of Test Setup



10.3. Test Procedure

ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 +Errata to C63.10a-2024 section 6.10.5.2

All restriction band and non- restriction band have been tested, only worse case is reported.

Details see the KDB558074 D01 Meas Guidance v05r02

1. Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
2. Check the spurious emissions out of band.
3. RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, RBW is set at 1MHz, VBW>[1 / (minimum transmitter on time)] and no less than 1Hz, RMS detector for AV value.

10.4. Test Results

Test Date	: 2025.07.10	Temperature	: 26℃
Test Engineer	: Felix Pang	Humidity	: 54%
Test Results	: PASS		
Test voltage	: AC 120V/60Hz		

Test Results				PASS				
Frequency Range				2310MHz~2410MHz				
Test Mode				GFSK TX 2402MHz				
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	75.14	-21.47	53.67	74.00	-20.33	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.44	-26.12	53.32	74.00	-20.68	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	75.04	-21.47	53.57	74.00	-20.43	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.59	-26.12	53.47	74.00	-20.53	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results				PASS				
Frequency Range				2450MHz~2550MHz				
Test Mode				GFSK TX 2480MHz				
1	2483.5	H	78.78	-25.29	53.49	74.00	-20.51	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.09	-25.29	53.80	74.00	-20.20	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					$\pi/4$ DQPSK TX 2402MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.42	-21.47	52.95	74.00	-21.05	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.10	-26.12	52.98	74.00	-21.02	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.82	-21.47	53.35	74.00	-20.65	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.67	-26.12	52.55	74.00	-21.45	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					$\pi/4$ DQPSK TX 2480MHz			
1	2483.5	H	78.39	-25.29	53.10	74.00	-20.90	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.54	-25.29	53.25	74.00	-20.75	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					8DPSK TX 2402MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.55	-21.47	53.08	74.00	-20.92	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.46	-26.12	53.34	74.00	-20.66	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.92	-21.47	53.45	74.00	-20.55	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.15	-26.12	53.03	74.00	-20.97	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					8DPSK TX 2480MHz			
1	2483.5	H	79.22	-25.29	53.93	74.00	-20.07	Peak
2	2483.5	H	--	-25.29	--	54.00	--	--
1	2483.5	V	78.72	-25.29	53.43	74.00	-20.57	Peak
2	2483.5	V	--	-25.29	--	54.00	--	--
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					GFSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	75.12	-21.47	53.65	74.00	-20.35	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	78.78	-26.12	52.66	74.00	-21.34	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.70	-21.47	53.23	74.00	-20.77	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	78.68	-26.12	52.56	74.00	-21.44	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					GFSK Hopping			
1	2483.5	H	78.91	-25.29	53.62	74.00	-20.38	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.47	-25.29	53.18	74.00	-20.82	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					$\pi/4$ DQPSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.91	-21.47	53.44	74.00	-20.56	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	79.49	-26.12	53.37	74.00	-20.63	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	75.22	-21.47	53.75	74.00	-20.25	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.19	-26.12	53.07	74.00	-20.93	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					$\pi/4$ DQPSK Hopping			
1	2483.5	H	79.24	-25.29	53.95	74.00	-20.05	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	79.28	-25.29	53.99	74.00	-20.01	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					8DPSK Hopping			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.40	-21.47	52.93	74.00	-21.07	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	78.90	-26.12	52.78	74.00	-21.22	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.77	-21.47	53.30	74.00	-20.70	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	79.10	-26.12	52.98	74.00	-21.02	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					8DPSK Hopping			
1	2483.5	H	78.60	-25.29	53.31	74.00	-20.69	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.43	-25.29	53.14	74.00	-20.86	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

11. Power Line Conducted Emissions

11.1. Test Limits

Frequency (MHz)	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

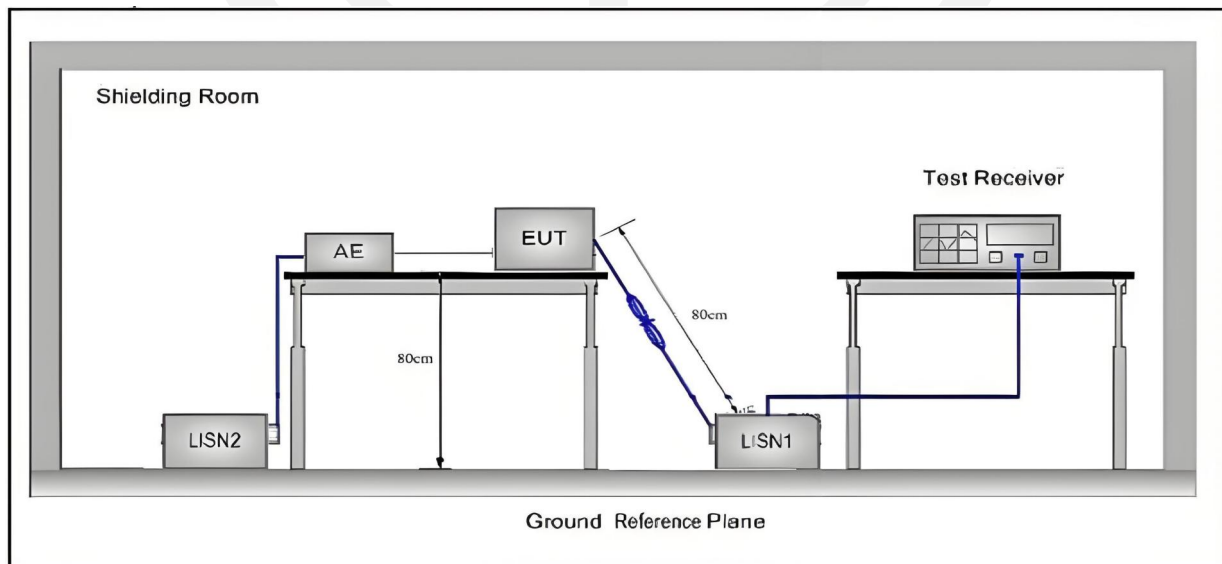
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

11.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSIC63.10-2020+Cor. 1-2023+C63.10a-2024 +Errata to C63.10a-2024 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

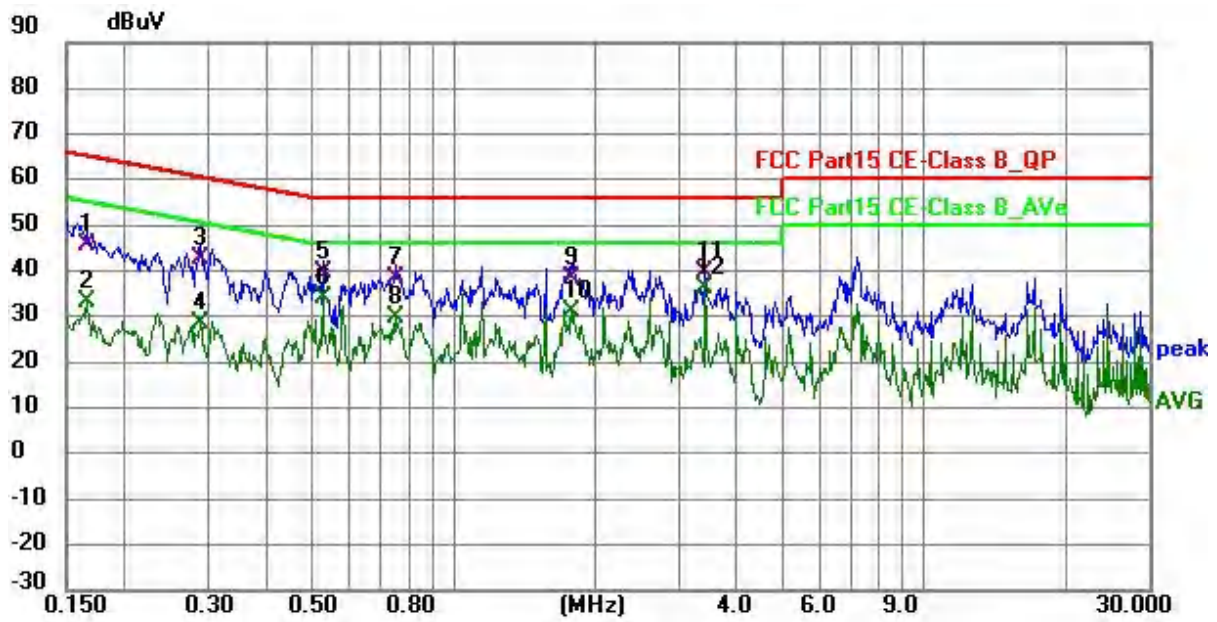
11.3. Test Setup



11.4. Test Results

Test Date	: 2025.07.10	Temperature	: 24℃
Test Engineer	: Felix Pang	Humidity	: 56%
Test Mode	: GFSK mode		
Test voltage	: AC 120V/60Hz		
Test Results	: PASS		
Note:	1. The test results are listed in next pages. 2. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector and quasi-peak detector need not be carried out. 3. If the limits for the measurement with the average detector are met when using a receiver with a quasi-peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out. 4. All modes have been tested, and only worst data of GFSK mode, Channel 2402MHz was listed in this report.		

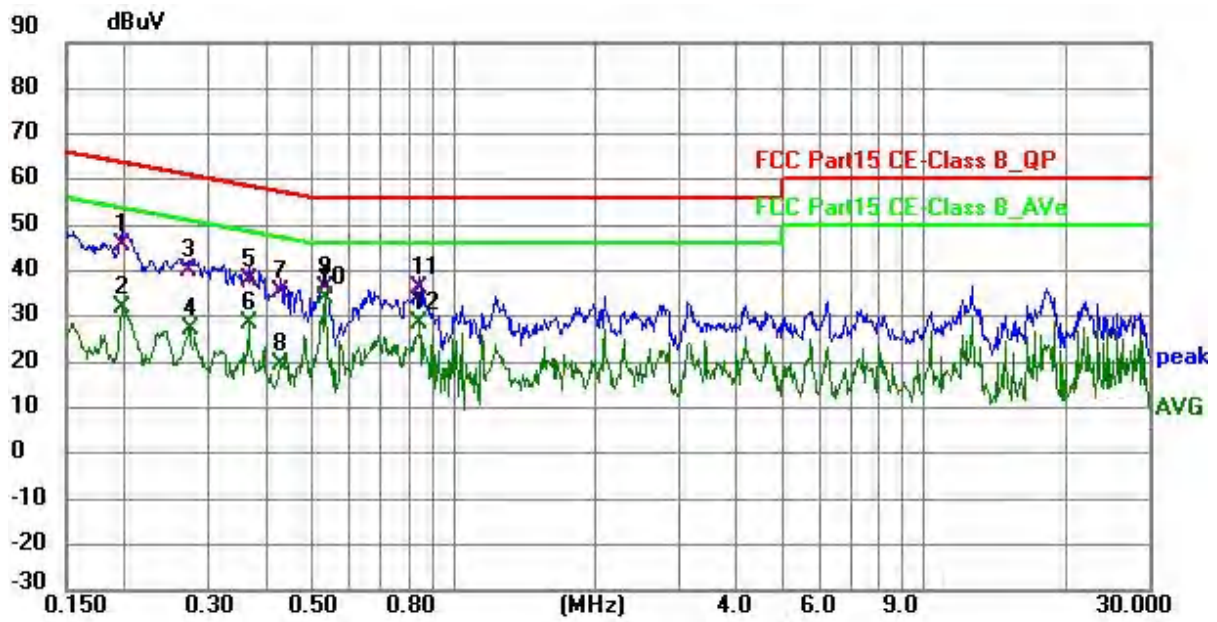
Polarization: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1658	36.02	9.63	45.65	65.17	-19.52	QP	P	
2	0.1658	23.73	9.63	33.36	55.17	-21.81	AVG	P	
3	0.2878	33.19	9.63	42.82	60.59	-17.77	QP	P	
4	0.2878	19.05	9.63	28.68	50.59	-21.91	AVG	P	
5	0.5260	29.96	9.62	39.58	56.00	-16.42	QP	P	
6	0.5260	24.43	9.62	34.05	46.00	-11.95	AVG	P	
7	0.7539	28.76	9.63	38.39	56.00	-17.61	QP	P	
8	0.7539	20.31	9.63	29.94	46.00	-16.06	AVG	P	
9	1.7740	28.53	9.65	38.18	56.00	-17.82	QP	P	
10	1.7740	21.22	9.65	30.87	46.00	-15.13	AVG	P	
11	3.4340	29.94	9.67	39.61	56.00	-16.39	QP	P	
12 *	3.4340	26.65	9.67	36.32	46.00	-9.68	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

Polarization: N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1975	36.22	9.63	45.85	63.72	-17.87	QP	P	
2	0.1975	22.29	9.63	31.92	53.72	-21.80	AVG	P	
3	0.2730	30.26	9.62	39.88	61.03	-21.15	QP	P	
4	0.2740	17.78	9.62	27.40	51.00	-23.60	AVG	P	
5	0.3653	28.34	9.62	37.96	58.61	-20.65	QP	P	
6	0.3653	18.71	9.62	28.33	48.61	-20.28	AVG	P	
7	0.4260	25.94	9.62	35.56	57.33	-21.77	QP	P	
8	0.4260	9.80	9.62	19.42	47.33	-27.91	AVG	P	
9	0.5340	26.65	9.62	36.27	56.00	-19.73	QP	P	
10 *	0.5340	24.52	9.62	34.14	46.00	-11.86	AVG	P	
11	0.8460	26.73	9.62	36.35	56.00	-19.65	QP	P	
12	0.8460	18.72	9.62	28.34	46.00	-17.66	AVG	P	

Note: Level = Reading + Factor Margin = Level - Limit

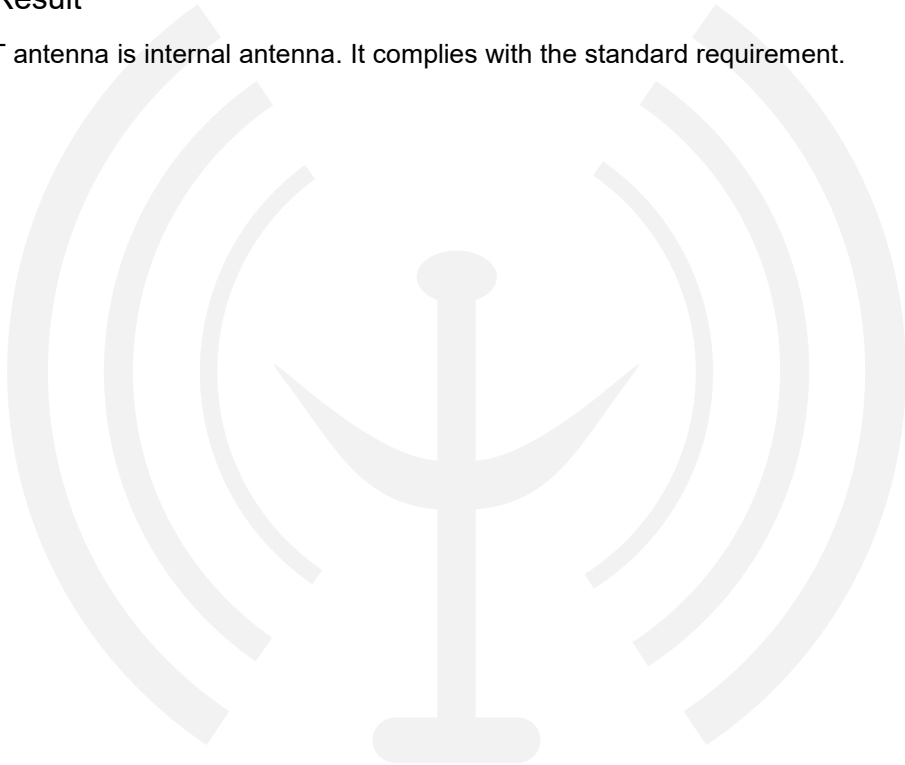
12. Antenna Requirements

12.1. Test Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

12.2. Test Result

The EUT antenna is internal antenna. It complies with the standard requirement.



13. Photos of test setup

Reference to the **appendix I Test Setup Photo** for details.

14. Photos of EUT

Reference to the **appendix II external photos** and **appendix III internal photos** for details.

----- END OF REPORT-----

