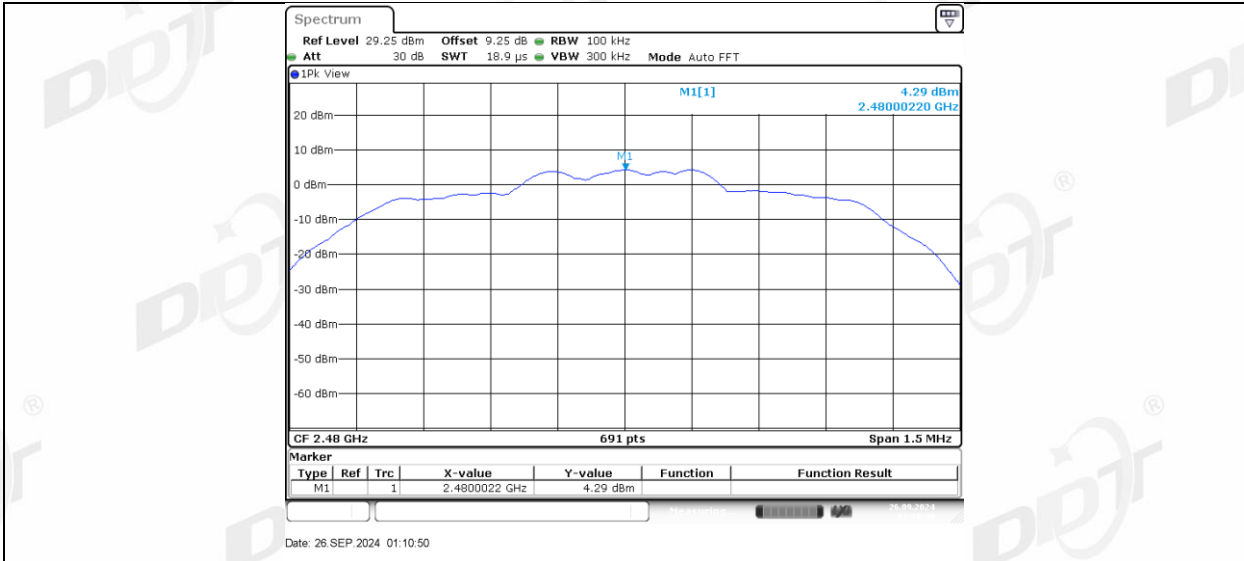
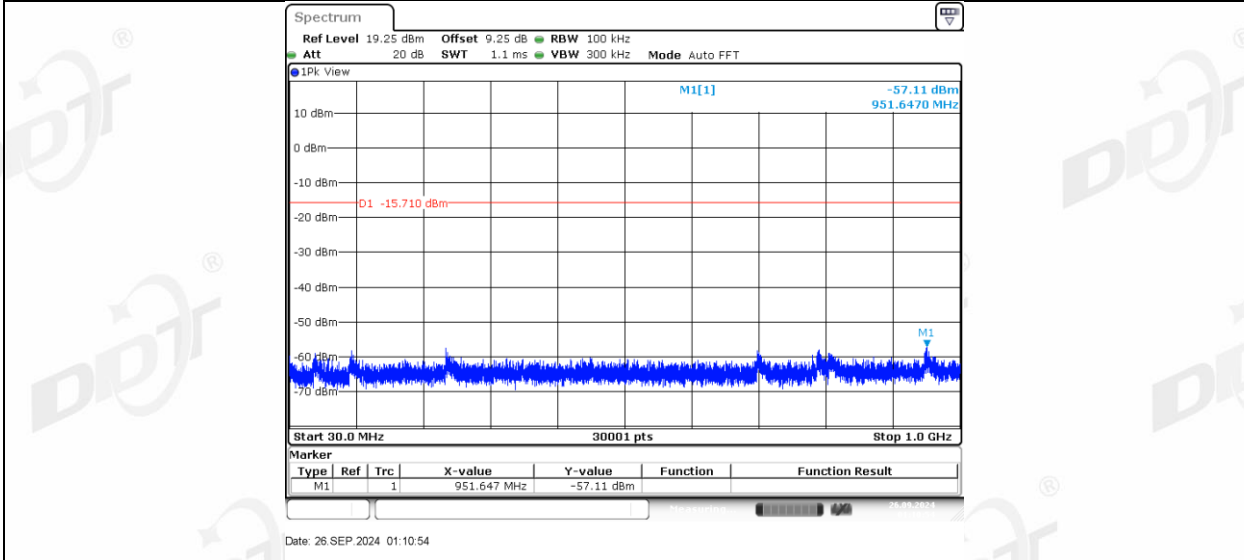
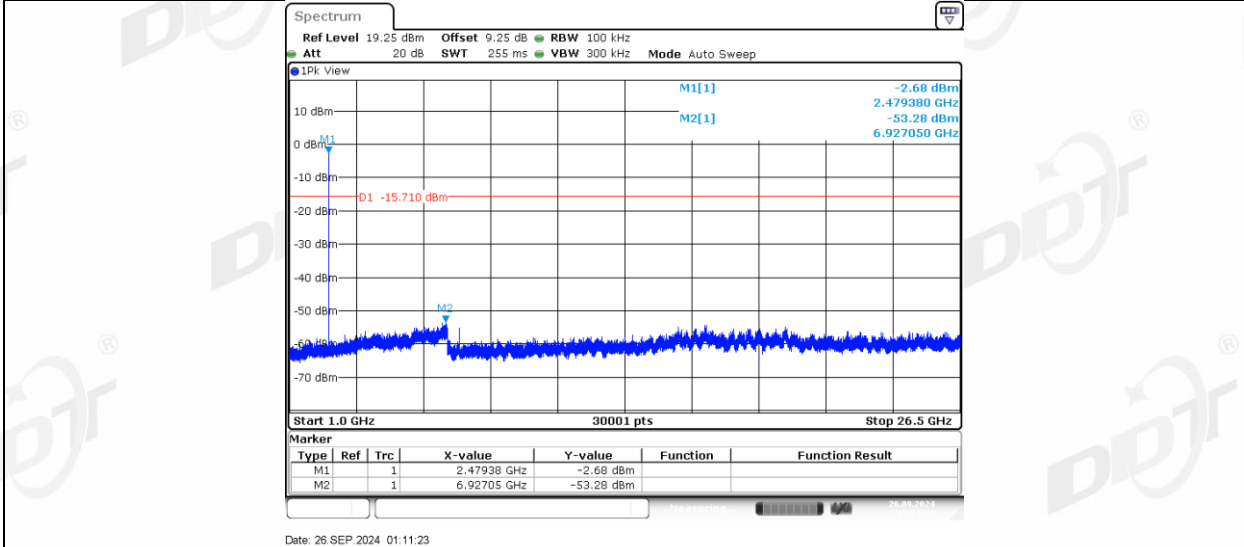




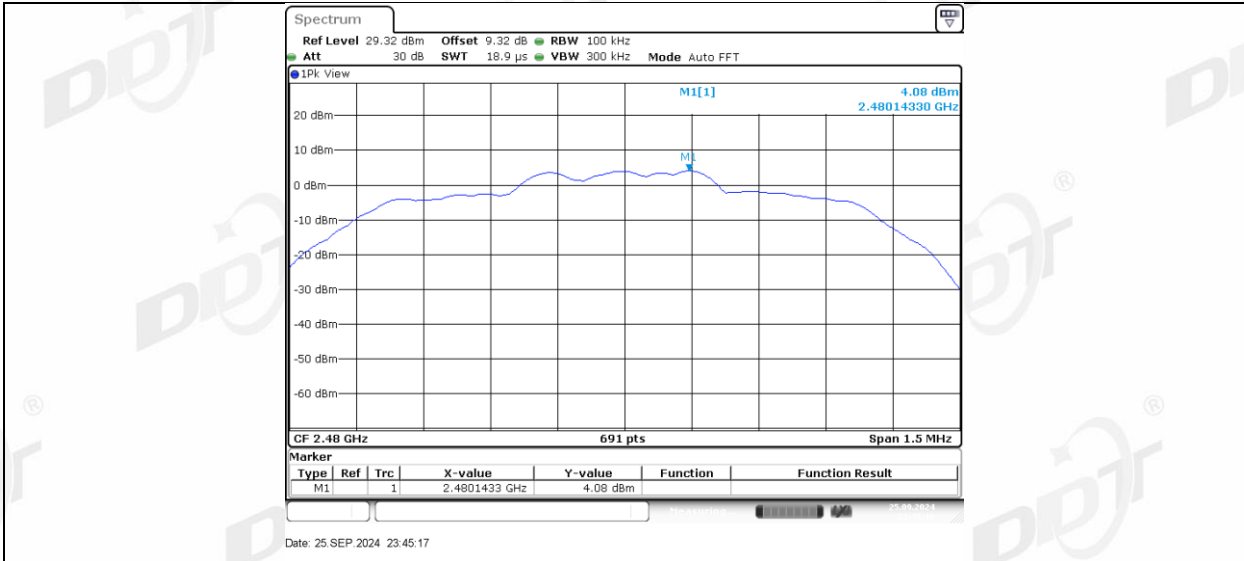
2DH5_Ant1_L_2480_30~1000



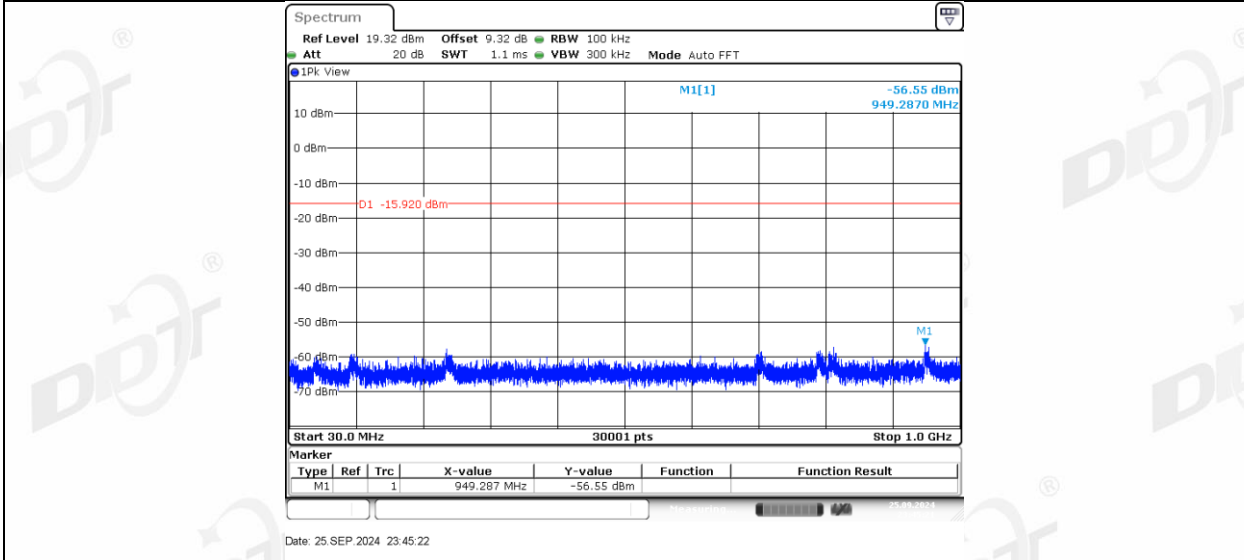
2DH5_Ant1_L_2480_1000~26500



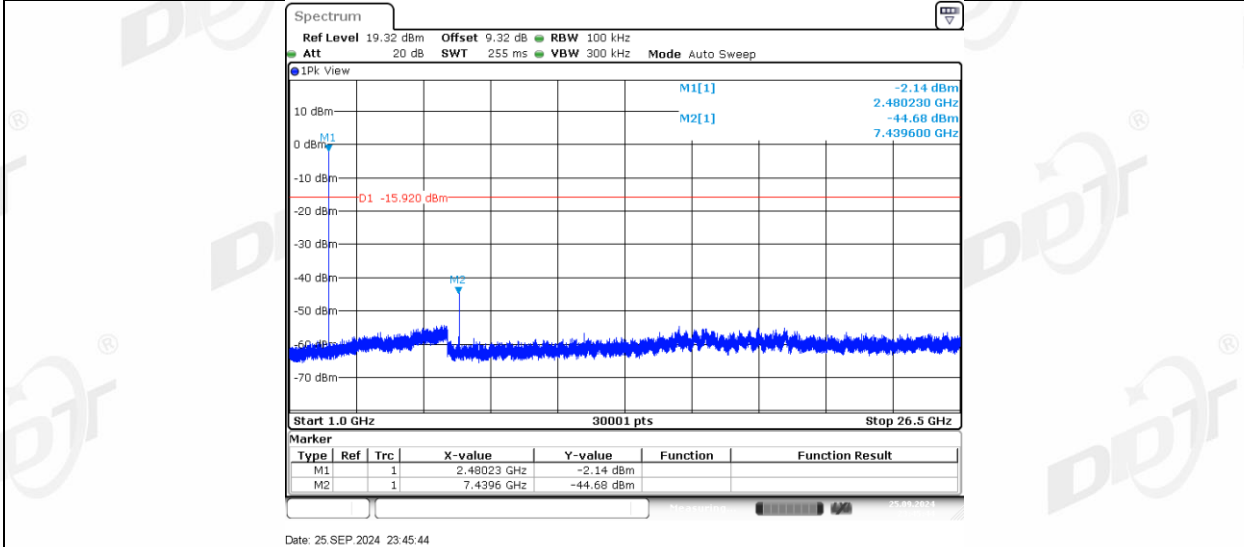
2DH5_Ant2_R_2480_0~Reference



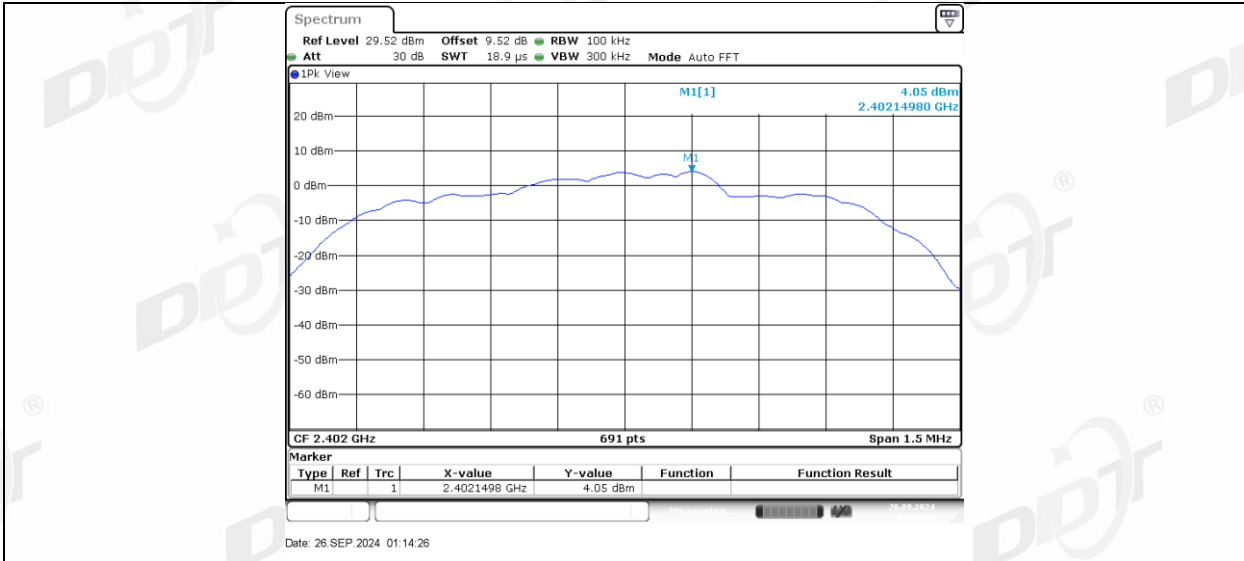
2DH5_Ant2_R 2480_30~1000



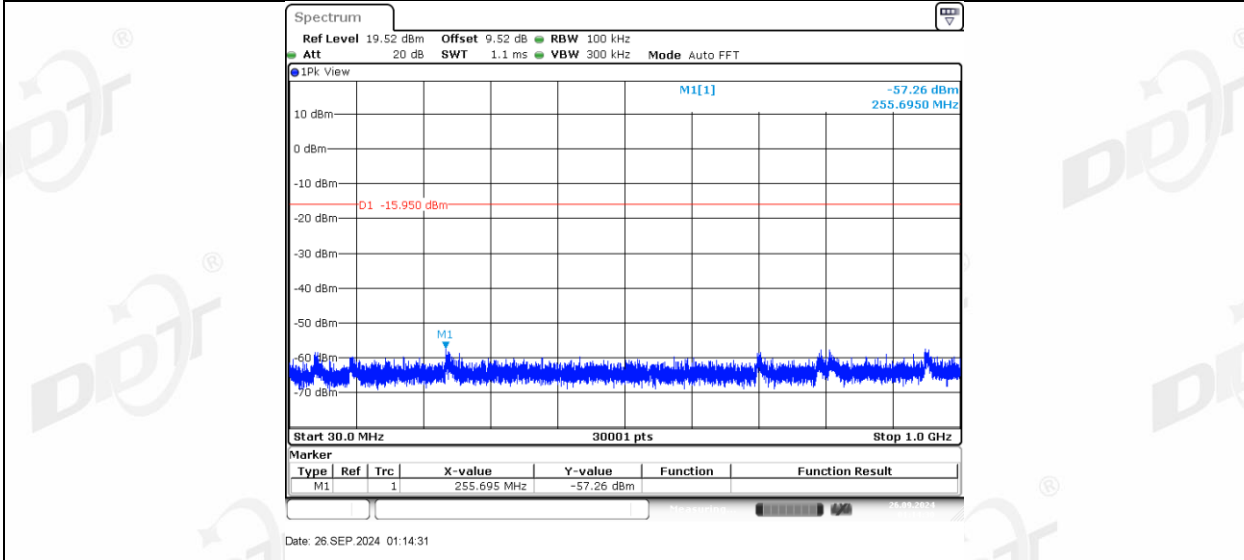
2DH5_Ant2_R 2480_1000~26500



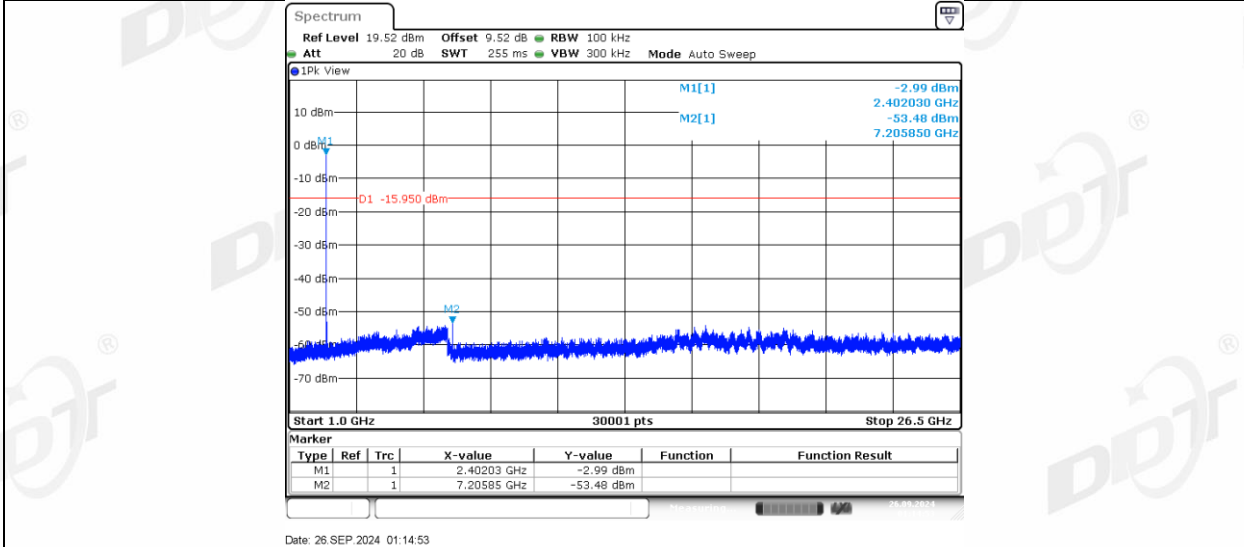
3DH5_Ant1_L 2402_0~Reference



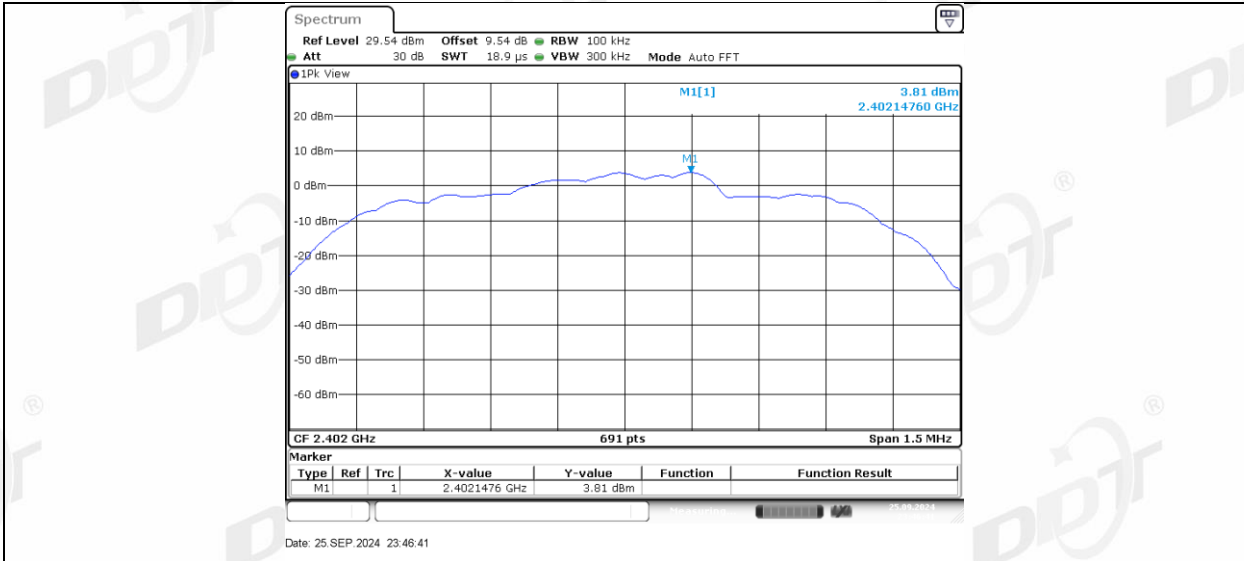
3DH5_Ant1_L_2402_30~1000



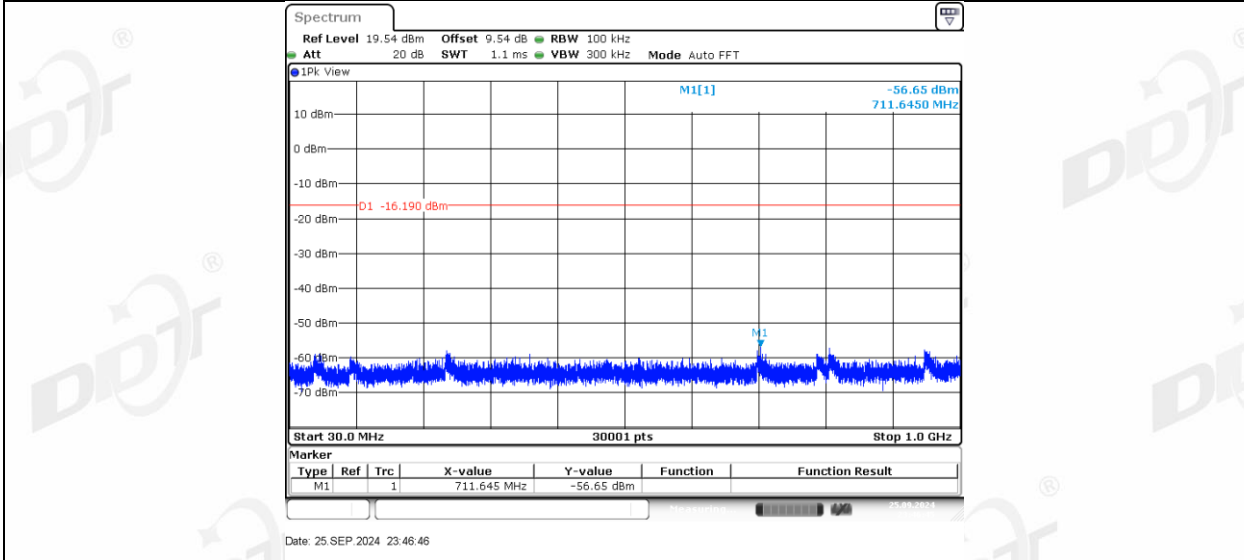
3DH5_Ant1_L_2402_1000~26500



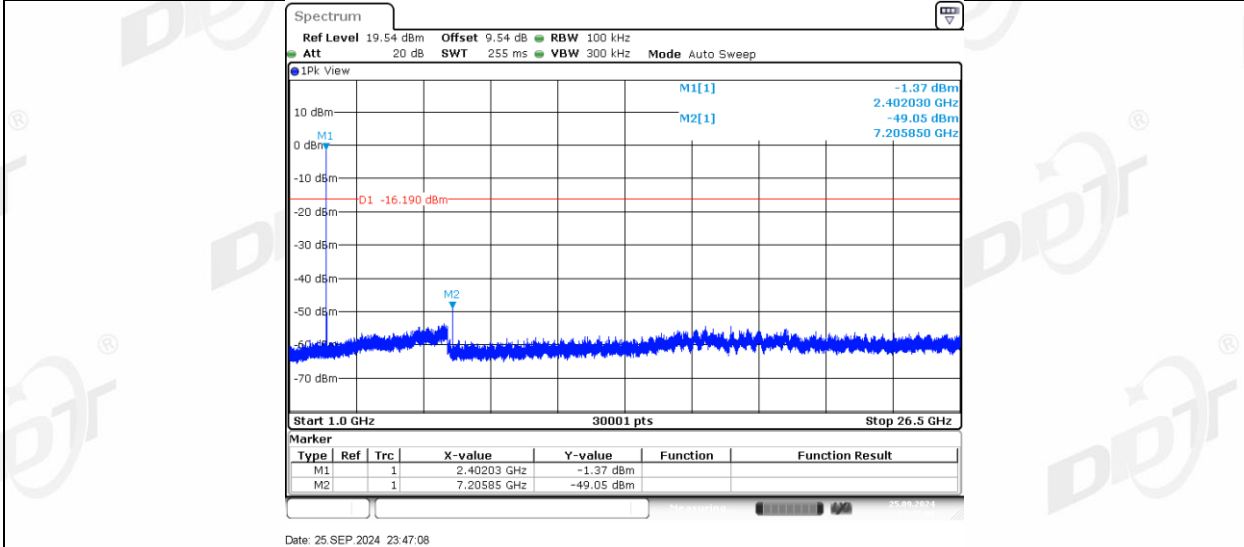
3DH5_Ant2_R_2402_0~Reference



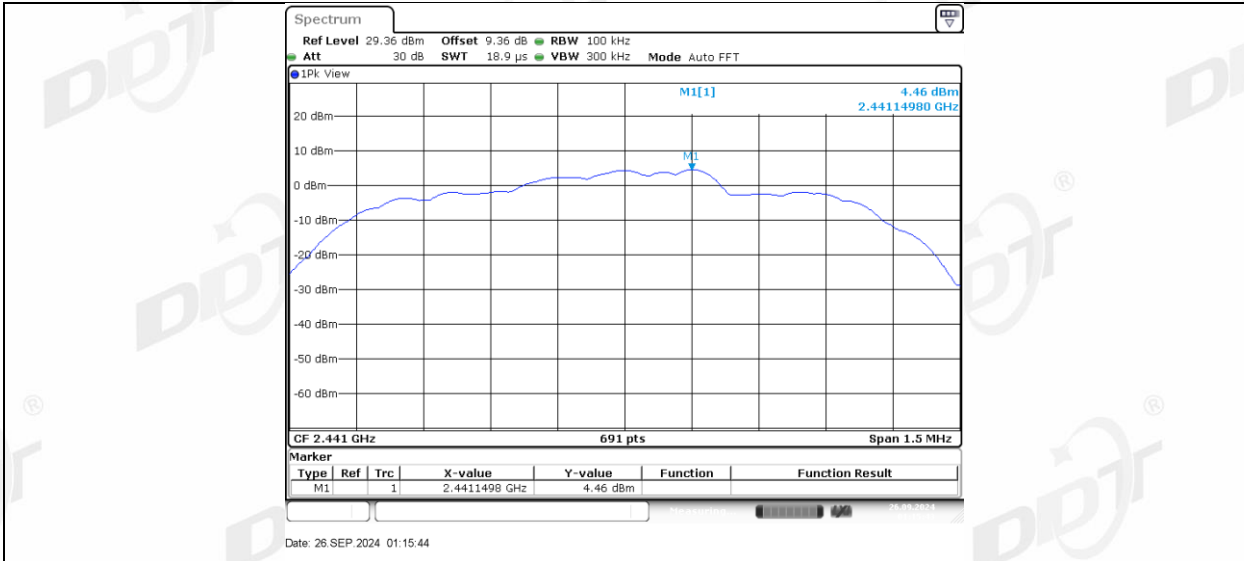
3DH5_Ant2_R_2402_30~1000



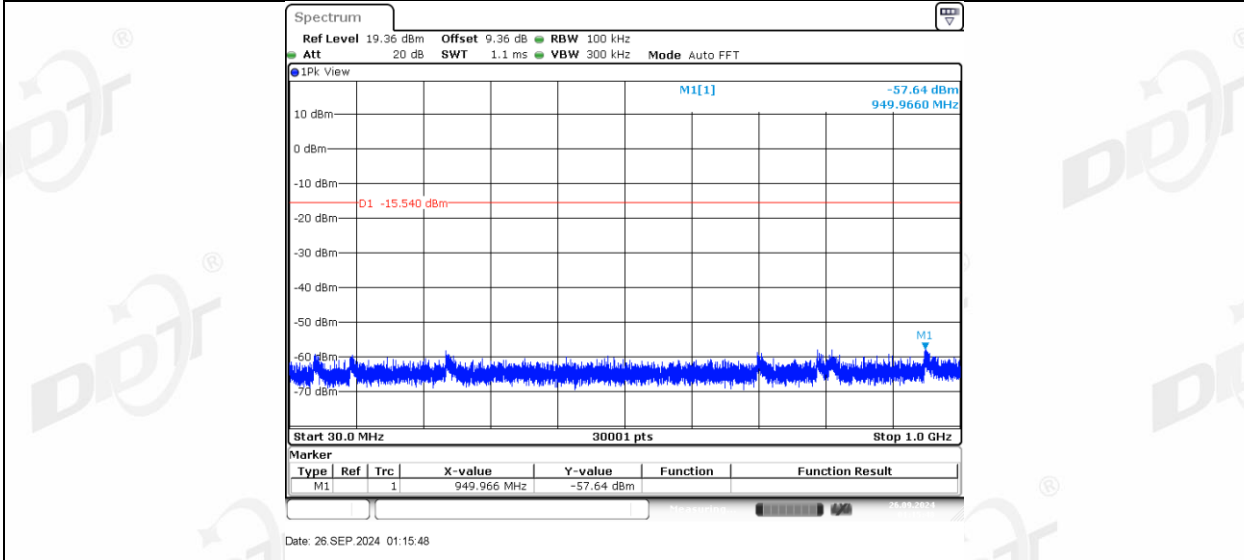
3DH5_Ant2_R_2402_1000~26500



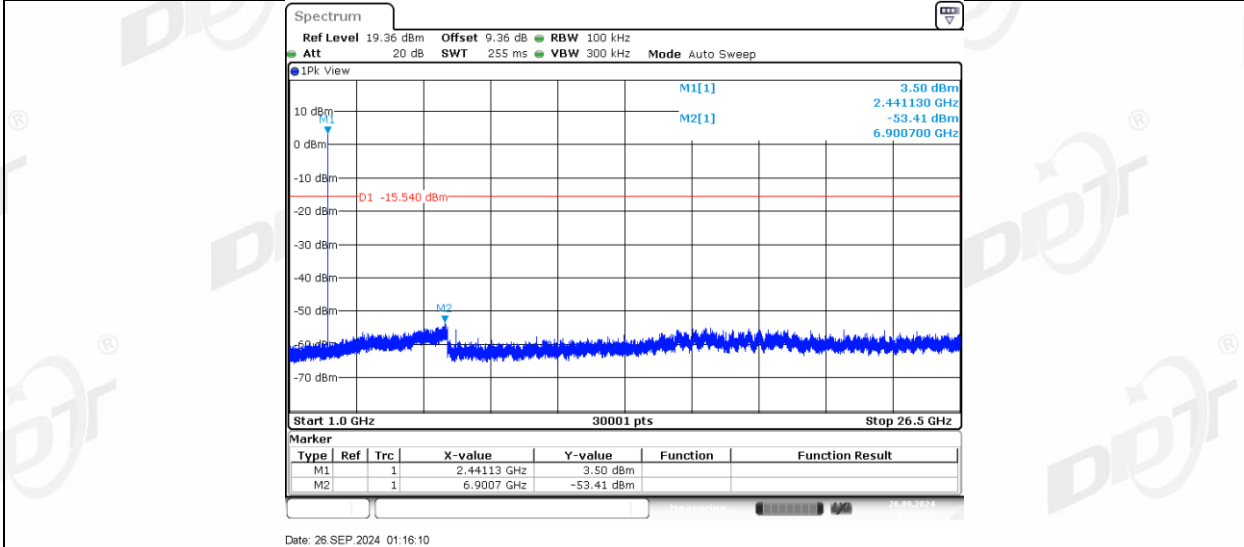
3DH5_Ant1_L_2441_0~Reference



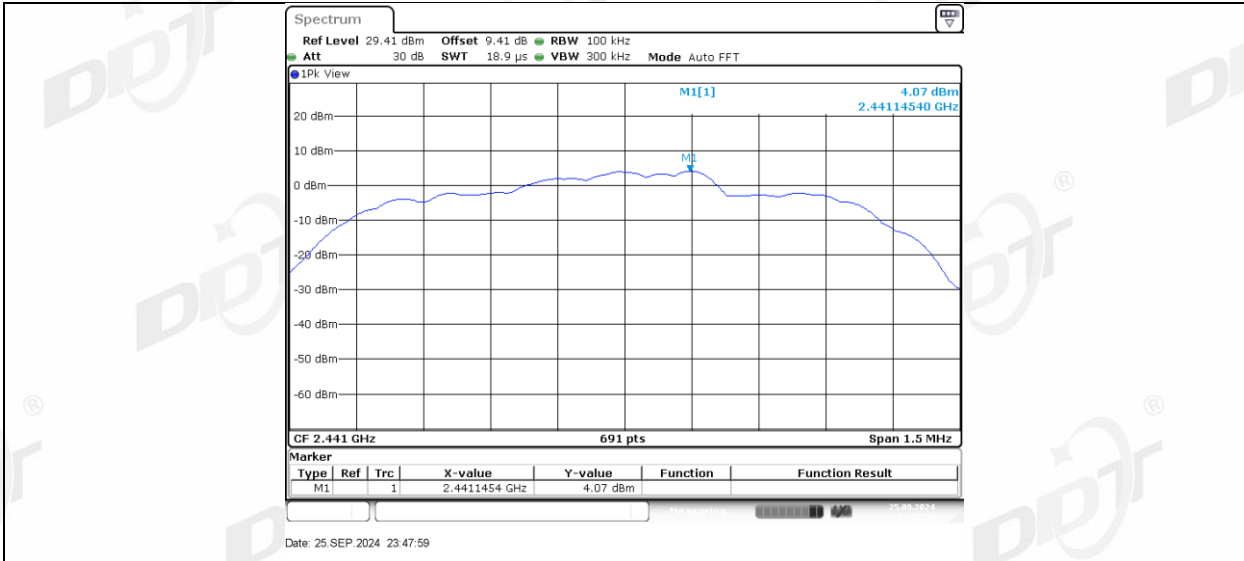
3DH5_Ant1_L_2441_30~1000



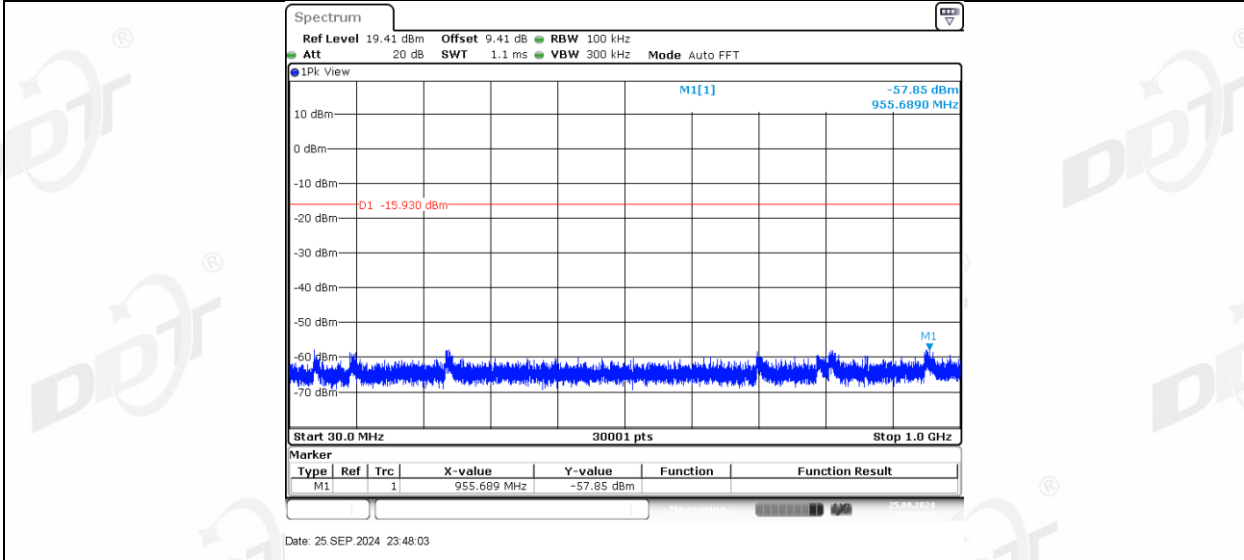
3DH5_Ant1_L_2441_1000~26500



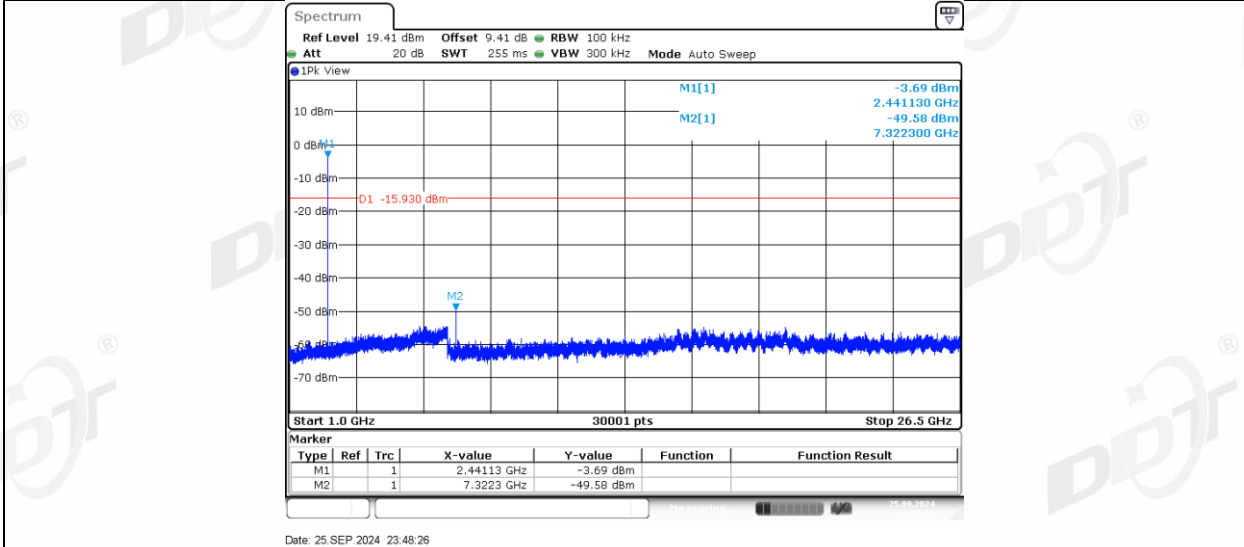
3DH5_Ant2_R_2441_0~Reference



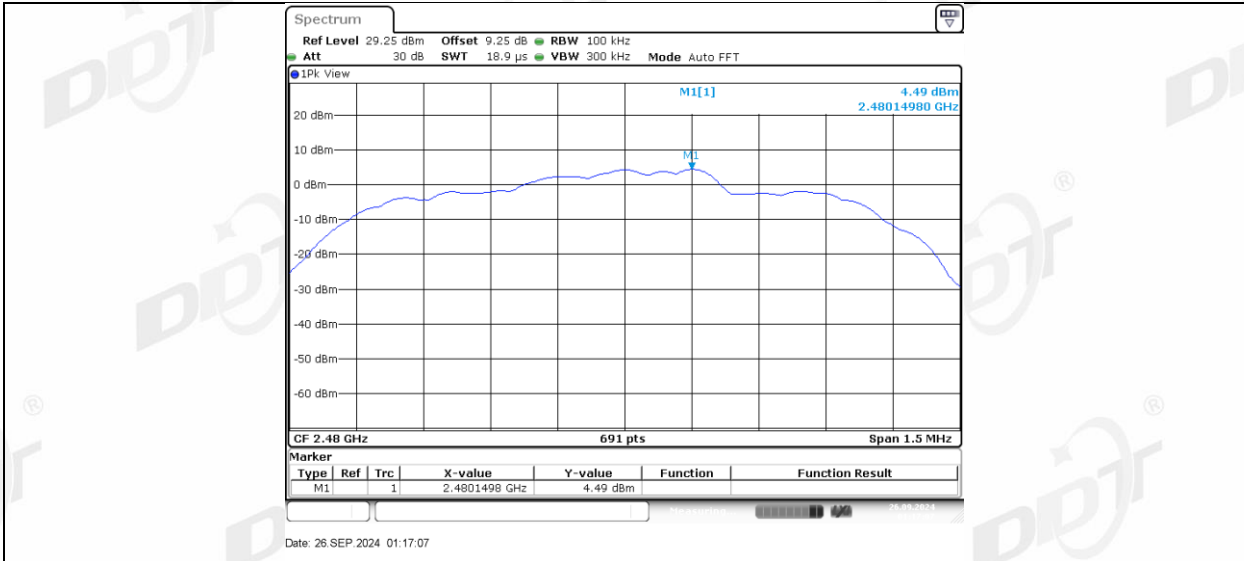
3DH5_Ant2_R_2441_30~1000



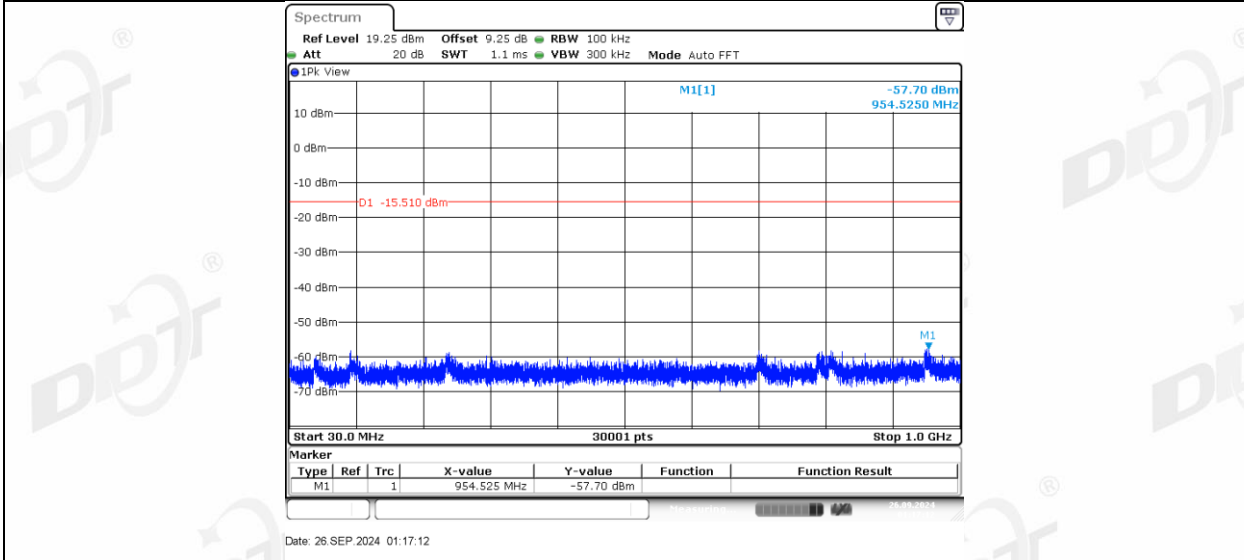
3DH5_Ant2_R_2441_1000~26500



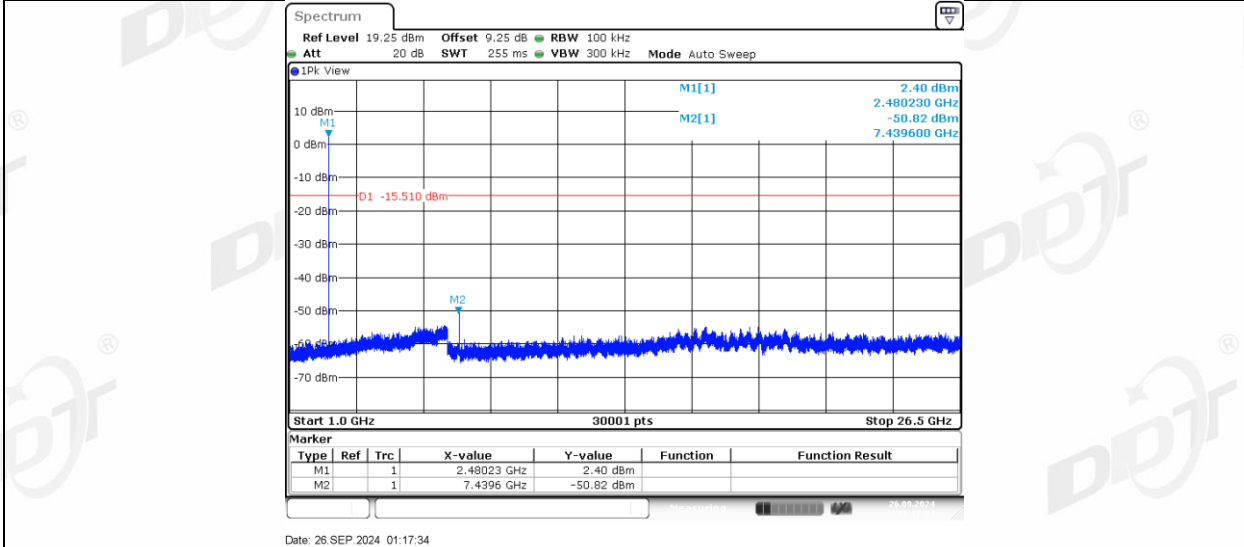
3DH5_Ant1_L_2480_0~Reference



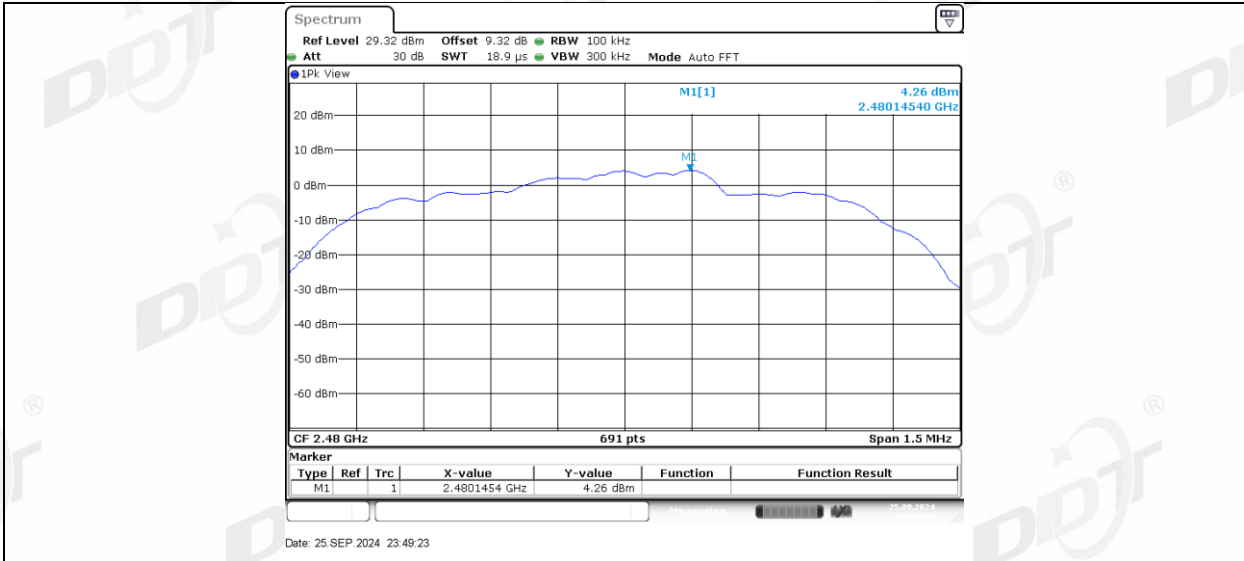
3DH5_Ant1_L_2480_30~1000



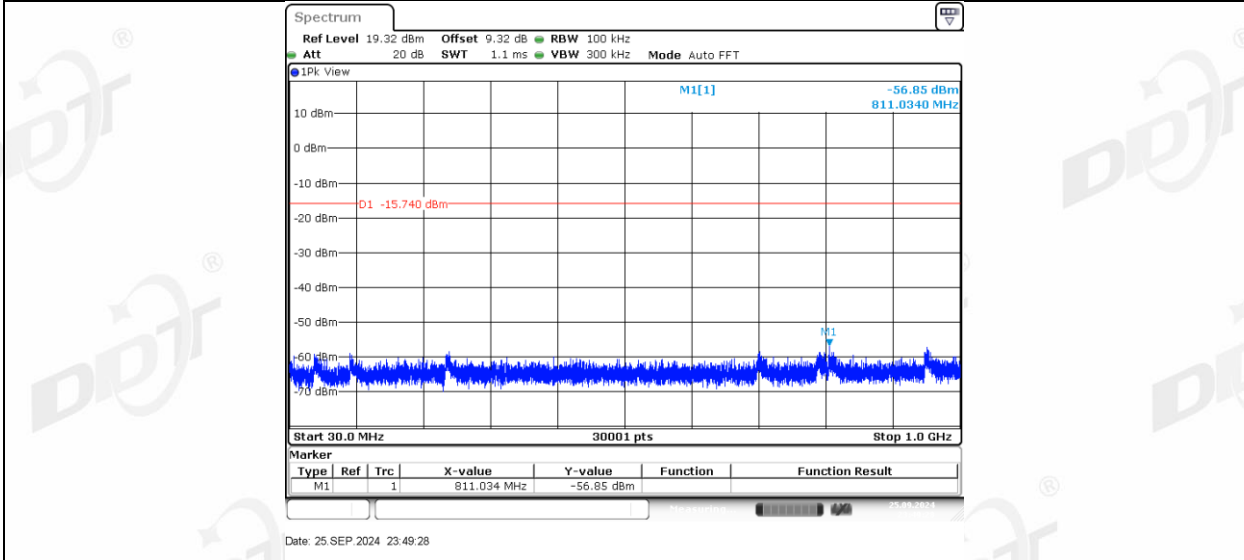
3DH5_Ant1_L_2480_1000~26500



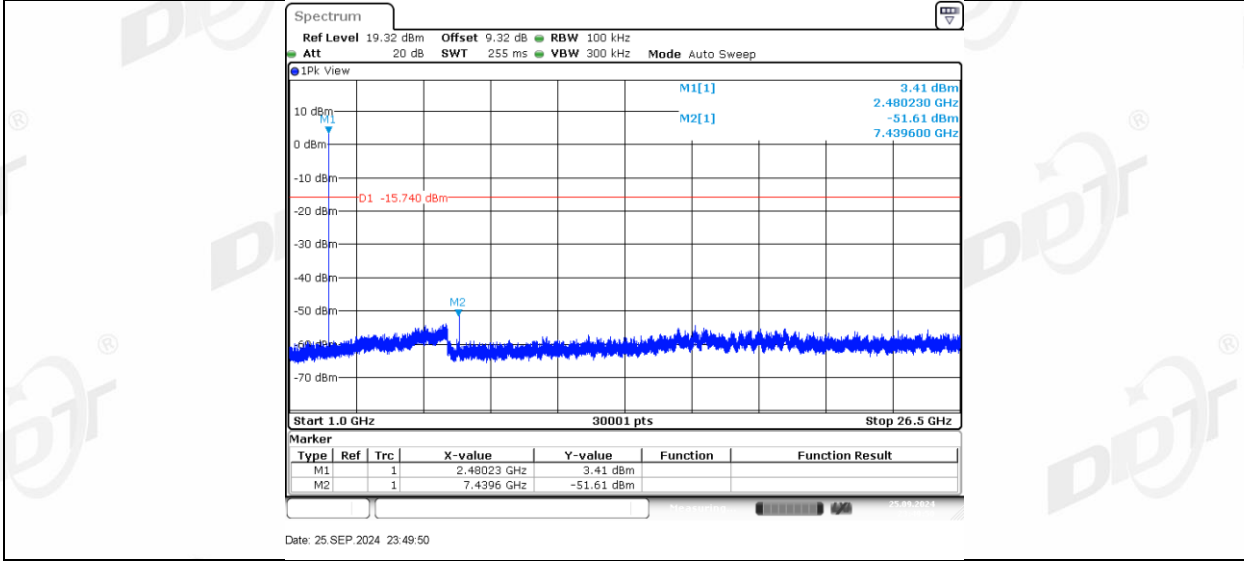
3DH5_Ant2_R_2480_0~Reference



3DH5_Ant2_R 2480_30~1000

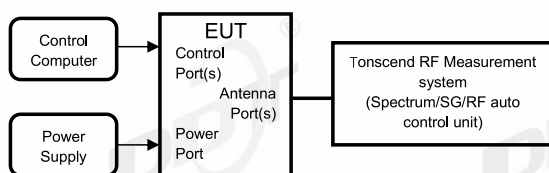


3DH5_Ant2_R 2480_1000~26500



12. Duty cycle

12.1. Block diagram of test setup



12.2. Limit

Just for Report.

12.3. Test procedure

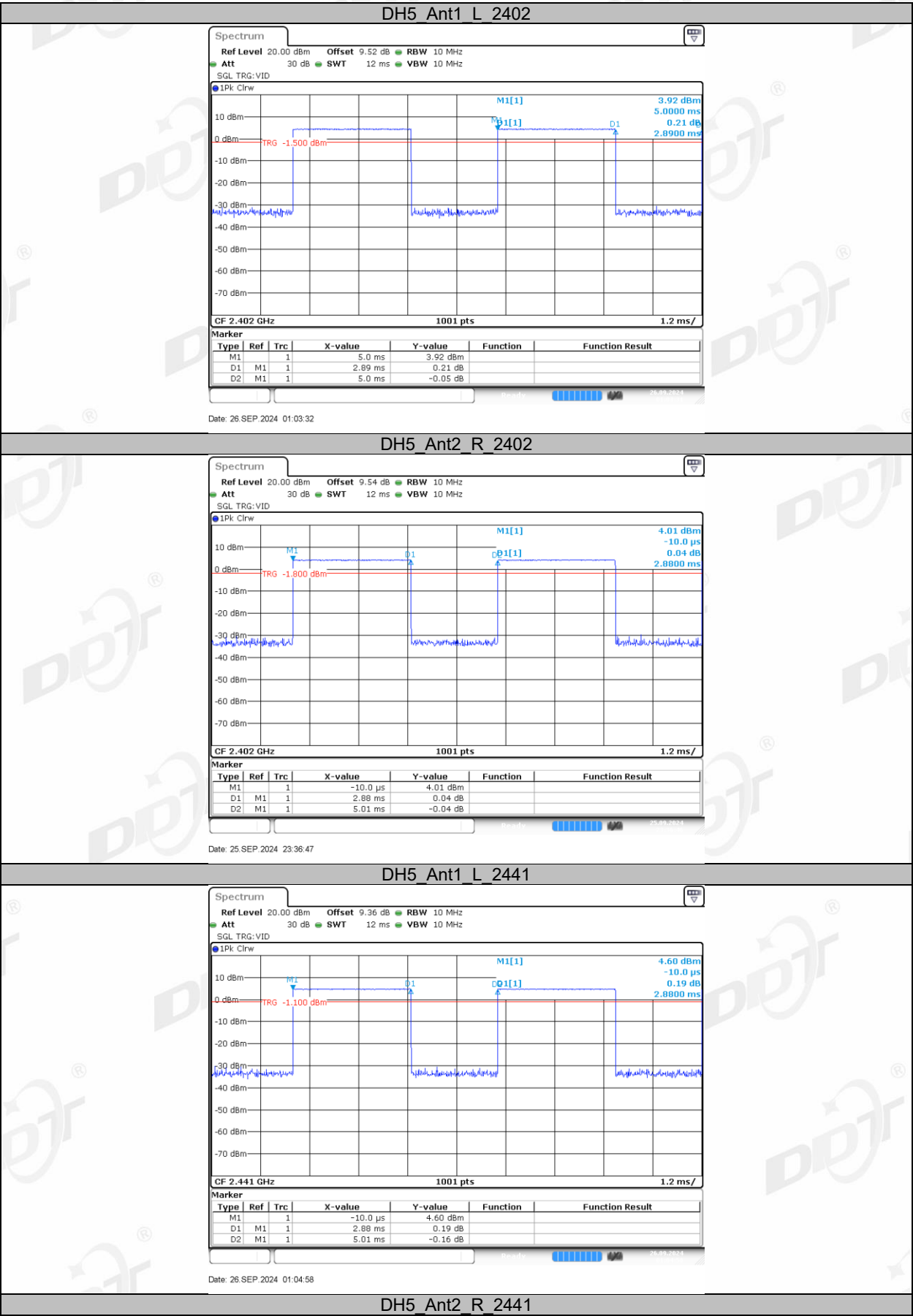
- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
Centre Frequency: The centre frequency of the middle hopping channel.
Resolution BW: 10 MHz.
Video BW: 10 MHz.
Span: Zero span.
Detector: Peak.
Trace Mode: Clear Write.
Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

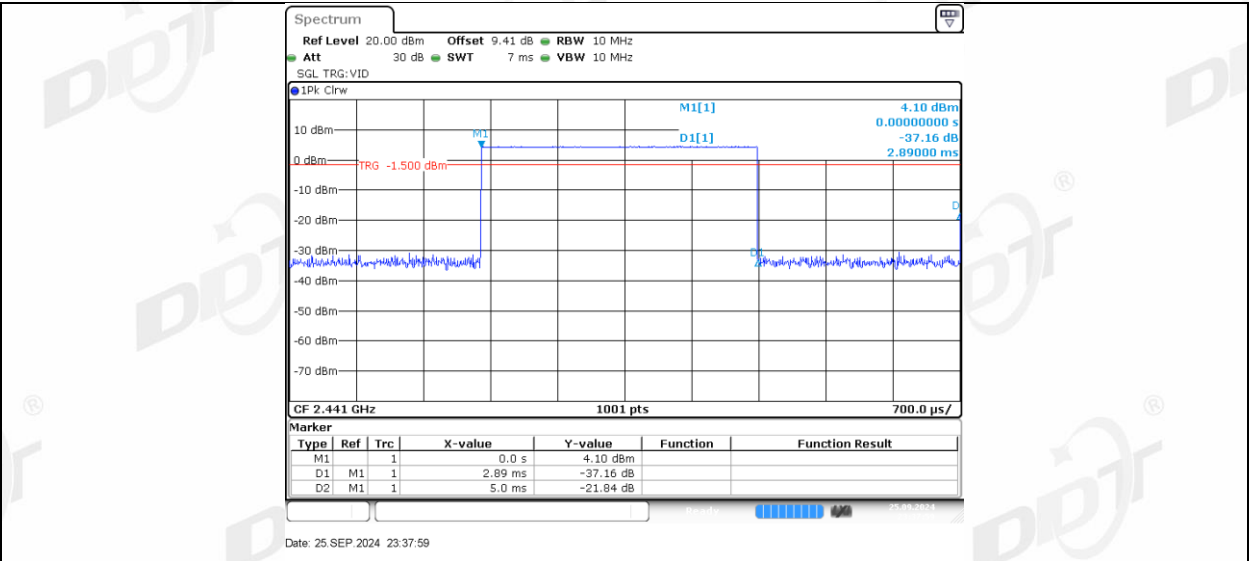
12.4. Test result

Test Engineer:	Haofeng	Test Site:	RF Measurement System 3#
Ambient Condition:	26.9℃,46.3%RH	Test Date:	2024.09.25-2024.09.26
Test Power Supply:	DC 3.3V	Sample Number:	S24052818-007

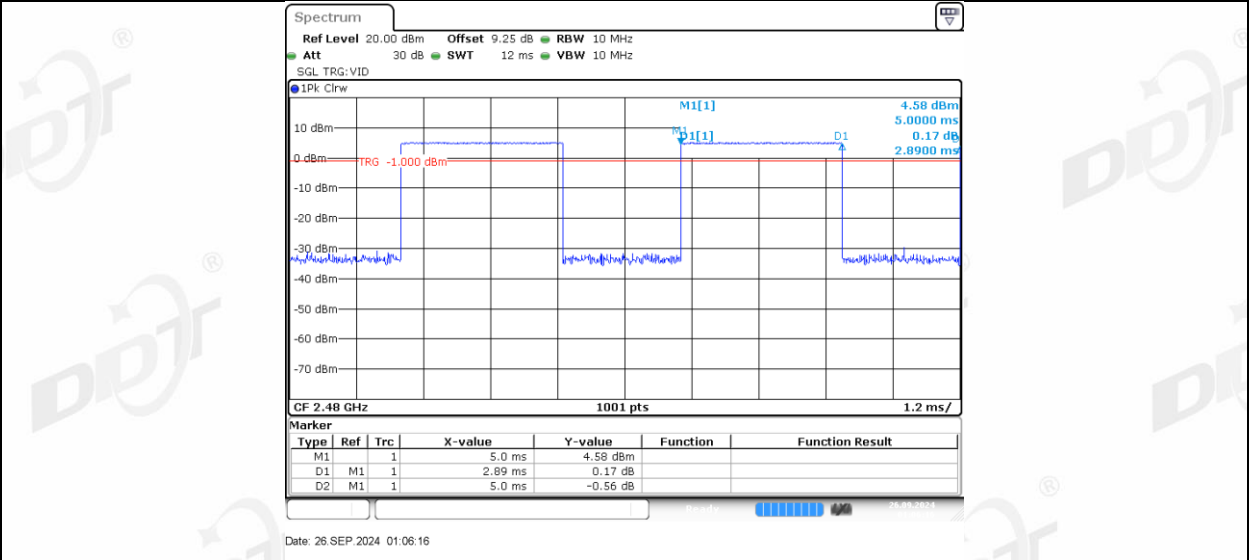
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1_L	2402	2.89	5.00	57.80	2.38
	Ant2_R	2402	2.88	5.01	57.49	2.40
	Ant1_L	2441	2.88	5.01	57.49	2.40
	Ant2_R	2441	2.89	5.00	57.80	2.38
	Ant1_L	2480	2.89	5.00	57.80	2.38
	Ant2_R	2480	2.89	5.00	57.80	2.38
2DH5	Ant1_L	2402	2.90	5.01	57.88	2.37
	Ant2_R	2402	2.89	5.00	57.80	2.38
	Ant1_L	2441	2.89	5.00	57.80	2.38
	Ant2_R	2441	2.89	5.00	57.80	2.38
	Ant1_L	2480	2.89	5.00	57.80	2.38
	Ant2_R	2480	2.89	5.00	57.80	2.38
3DH5	Ant1_L	2402	2.91	5.02	57.97	2.37
	Ant2_R	2402	2.89	5.00	57.80	2.38
	Ant1_L	2441	2.90	5.01	57.88	2.37
	Ant2_R	2441	2.89	5.00	57.80	2.38
	Ant1_L	2480	2.89	5.00	57.80	2.38
	Ant2_R	2480	2.89	5.00	57.80	2.38

12.5. Test graphs

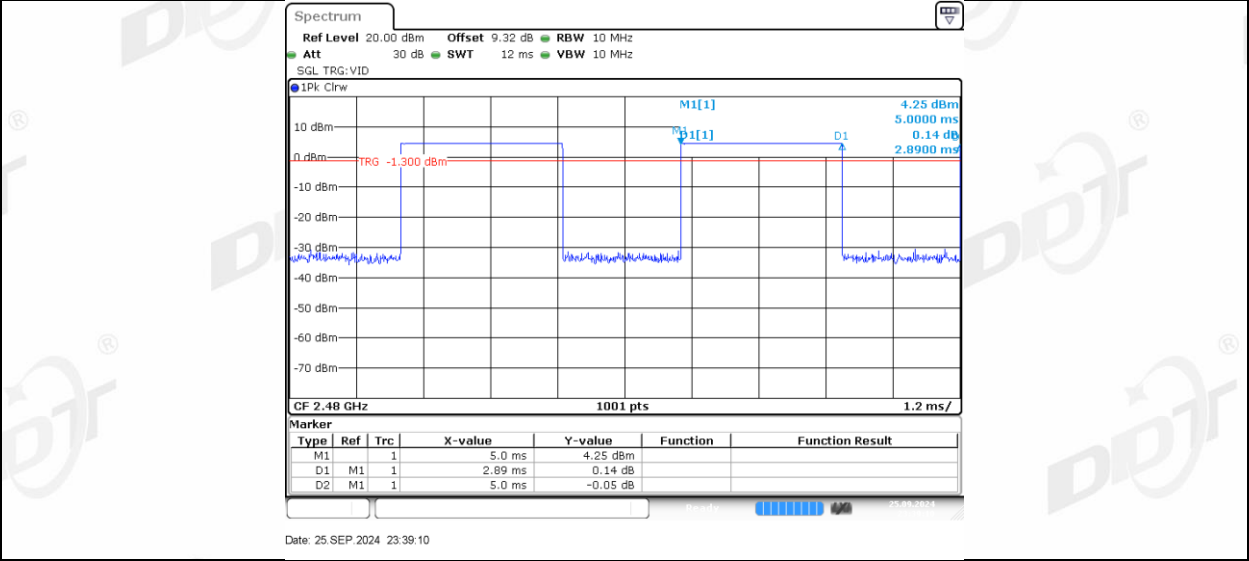




DH5_Ant1_L_2480



DH5_Ant2_R_2480

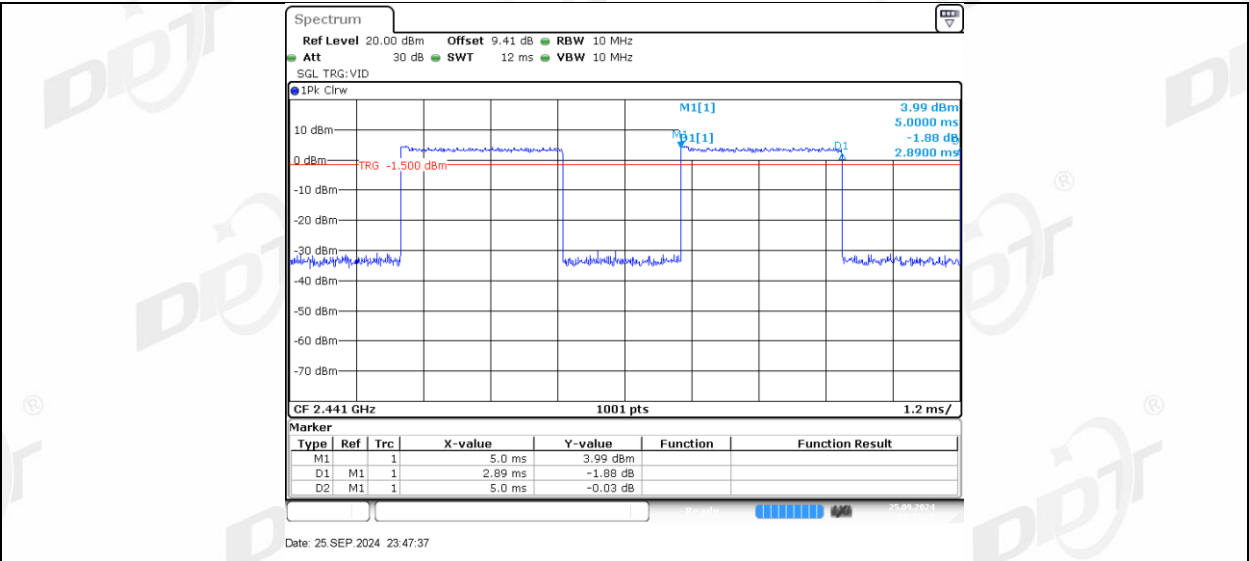


2DH5_Ant1_L_2402

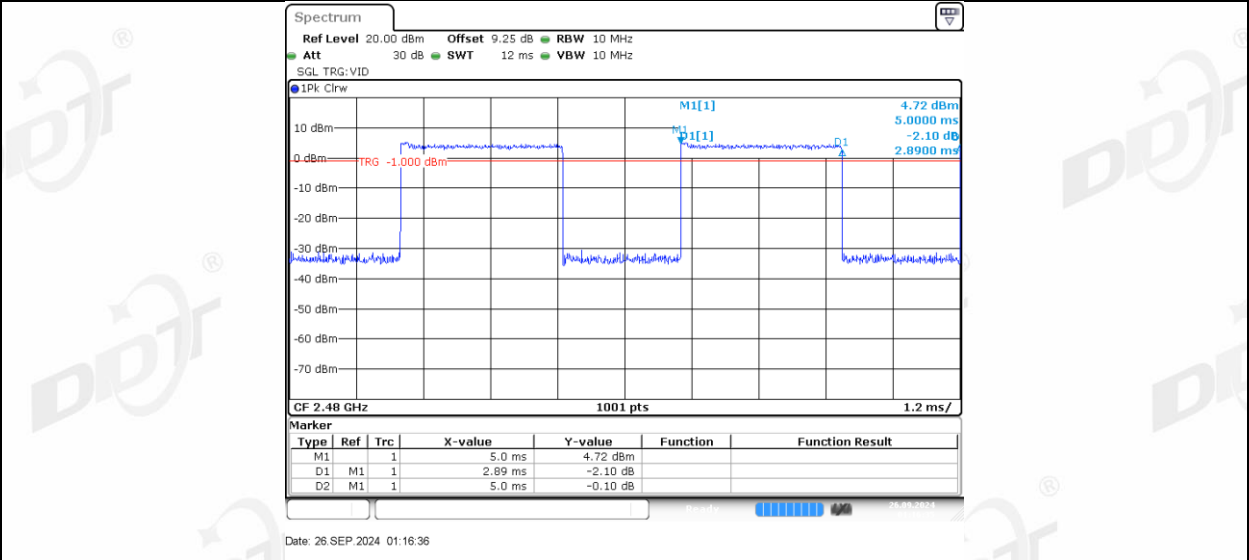




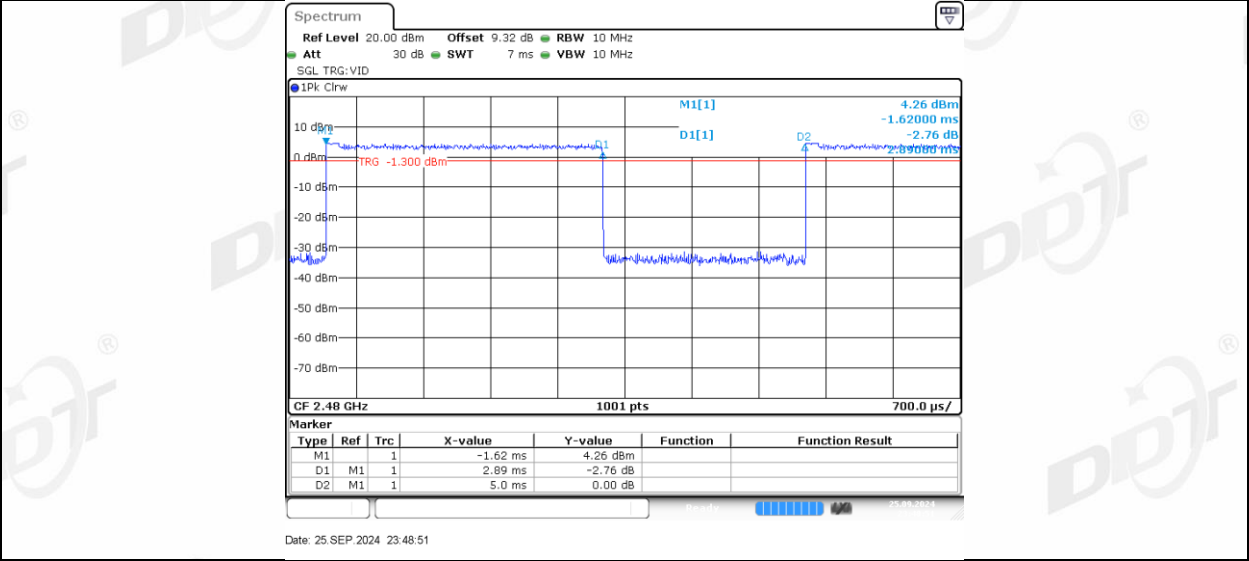




3DH5_Ant1_L_2480



3DH5_Ant2_R_2480



13. Antenna Requirements

13.1. Limit

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 transmitting 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. Result

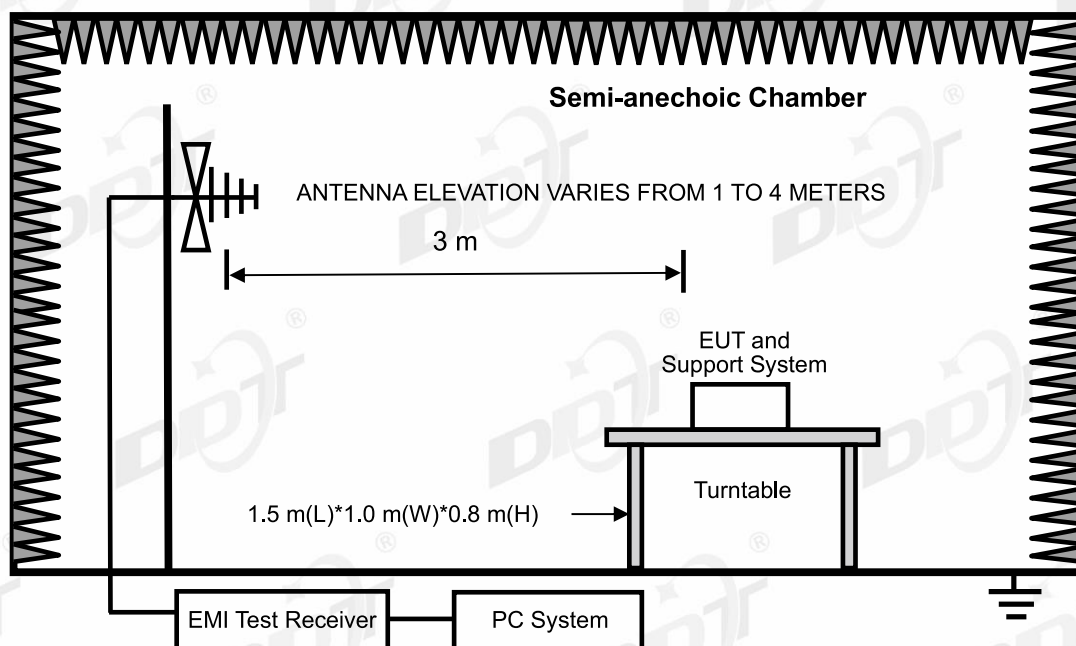
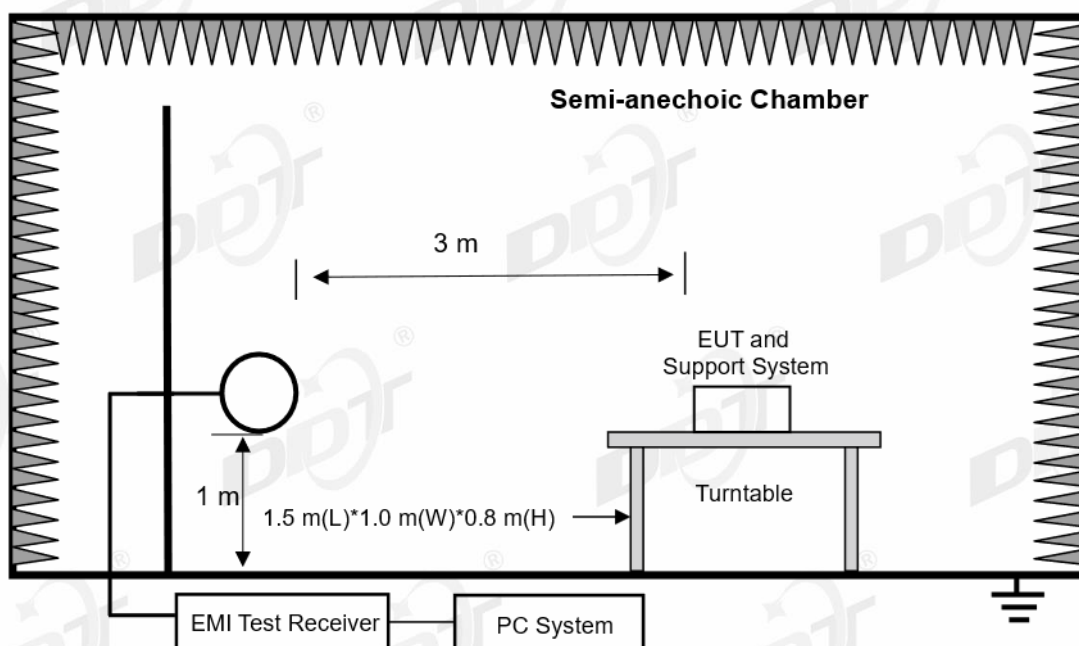
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

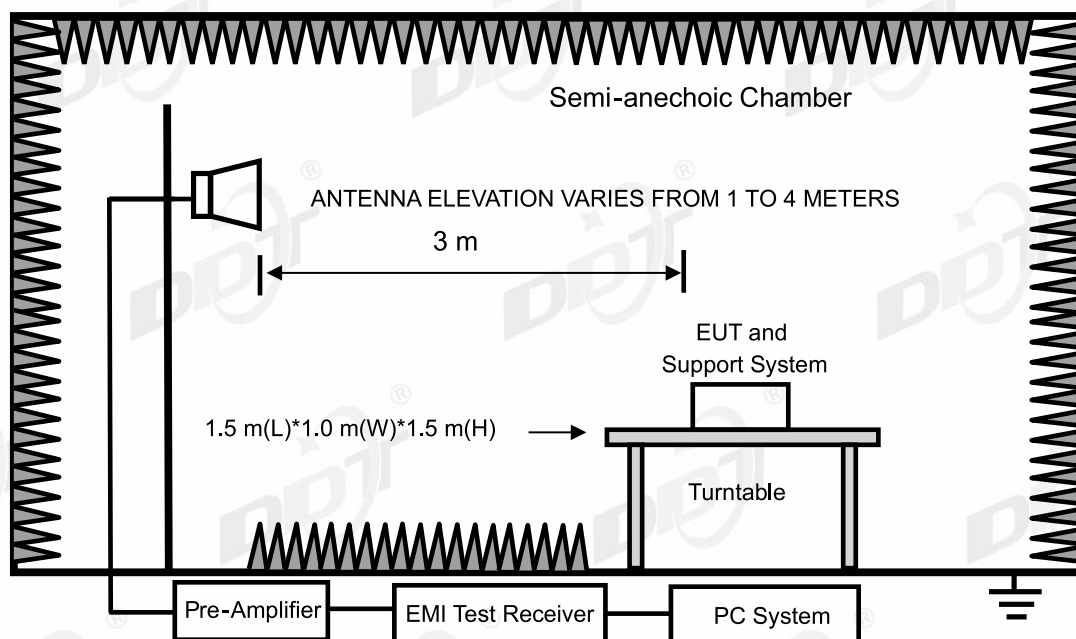
14.Radiated Emission

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2025/08/28
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22

14.2. Block diagram of test setup





14.3. Limits

(1) FCC 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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	²
13.36-13.41			

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

²Above 38.6

(2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		mV/m	dB(mV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

(1) The emission limits shown in the above table are based on measurements employing a CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz and above 1000 MHz, radiated emissions limits in these three bands are based on measurements employing an average detector.

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dBuV/m}) = \text{Limit}_{30\text{m}}(\text{dBuV/m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

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 20 dB below the fundamental emissions or comply with 15.209 limits.

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
/	/	/	/	/

14.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m
1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m

18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m
-----------------	-----------------------------	-----

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilog Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m 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 equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

(9) According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

(10) For 30 MHz ~ 25 GHz: (Scan with GFSK, $\pi/4$ -DQPSK and 8DPSK, the worst case is record and reported)

(11) For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in worst mode.

14.6. Test result

PASS. (See below detailed test result)

14.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-30

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

BT TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

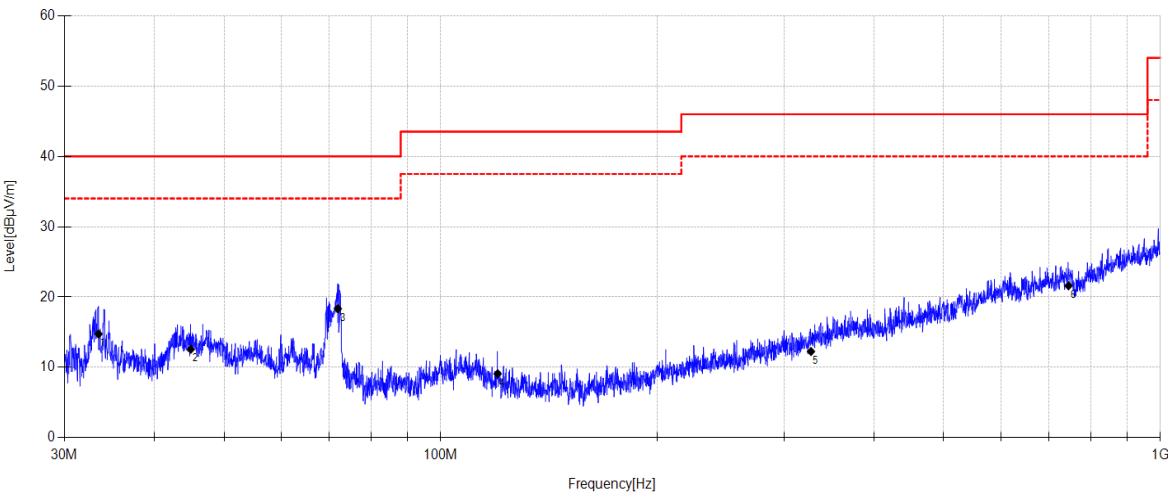
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24052818\FCC BELOW1G\20240830-213826_H

Memo:

L Sample Number:S240052818-001



Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	33.468	30.72	11.20	3.78	14.75	40.00	25.25	QP	Horizontal
2	44.960	26.32	13.19	3.85	12.58	40.00	27.42	QP	Horizontal
3	71.971	35.27	9.60	4.03	18.35	40.00	21.65	QP	Horizontal
4	119.991	25.61	10.00	4.33	9.10	43.50	34.40	QP	Horizontal
5	327.042	23.36	13.83	5.33	12.27	46.00	33.73	QP	Horizontal
6	745.432	24.69	20.01	6.81	21.61	46.00	24.39	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-30

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

BT TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

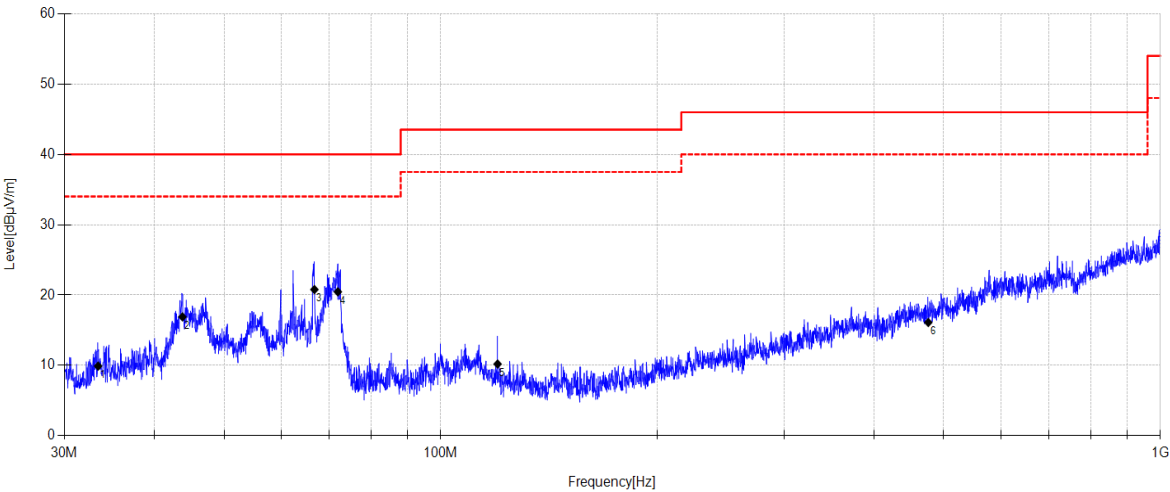
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24052818\FCC BELOW1G\20240830-213846_V

Memo:

L Sample Number:S240052818-001



Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	33.421	25.91	11.17	3.78	9.91	40.00	30.09	QP	Vertical
2	43.778	30.89	12.96	3.84	16.90	40.00	23.10	QP	Vertical
3	66.769	36.98	10.40	4.00	20.79	40.00	19.21	QP	Vertical
4	71.971	37.38	9.60	4.03	20.46	40.00	19.54	QP	Vertical
5	119.991	26.71	10.00	4.33	10.20	43.50	33.30	QP	Vertical
6	475.903	23.81	16.34	5.91	16.11	46.00	29.89	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-30

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

BT TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

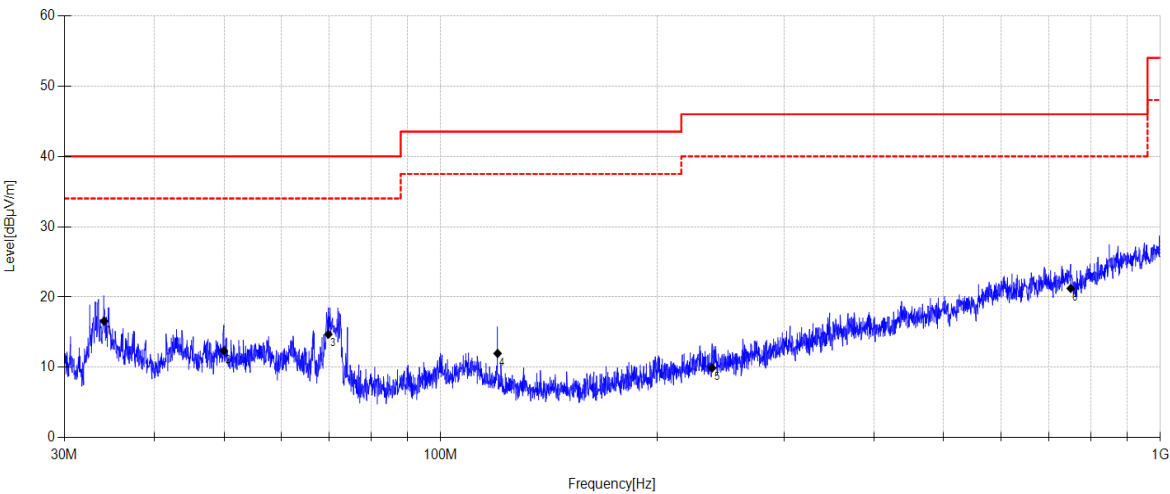
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24052818\FCC BELOW1G\20240830-020045_H

Memo:

R Sample Number:S240052818-001



Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	34.060	32.19	11.55	3.78	16.58	40.00	23.42	QP	Horizontal
2	49.981	26.21	12.99	3.88	12.38	40.00	27.62	QP	Horizontal
3	69.833	31.34	9.92	4.02	14.71	40.00	25.29	QP	Horizontal
4	119.991	28.5	10.00	4.33	11.99	43.50	31.51	QP	Horizontal
5	238.379	23.79	11.67	4.94	9.92	46.00	36.08	QP	Horizontal
6	750.678	24.29	20.02	6.82	21.23	46.00	24.77	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-30

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

BT TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

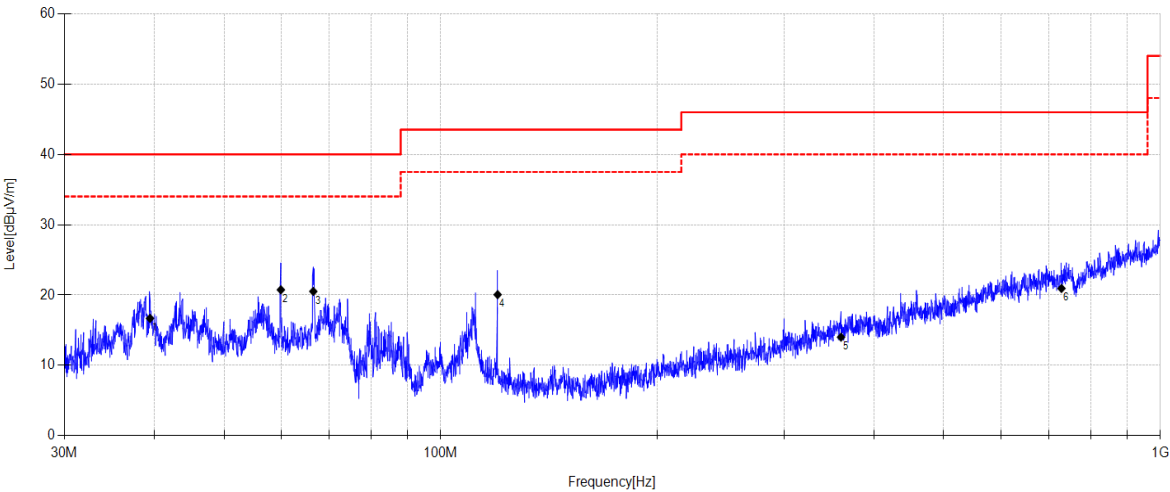
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q24052818\FCC BELOW1G\20240830-020107_V

Memo:

R Sample Number:S240052818-001



Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	39.463	32	11.73	3.82	16.69	40.00	23.31	QP	Vertical
2	59.977	34.63	12.79	3.96	20.75	40.00	19.25	QP	Vertical
3	66.535	36.41	10.70	4.00	20.52	40.00	19.48	QP	Vertical
4	119.991	36.57	10.00	4.33	20.06	43.50	23.44	QP	Vertical
5	360.016	23.84	14.90	5.46	14.02	46.00	31.98	QP	Vertical
6	728.893	24.35	19.72	6.77	20.94	46.00	25.06	QP	Vertical

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2402MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

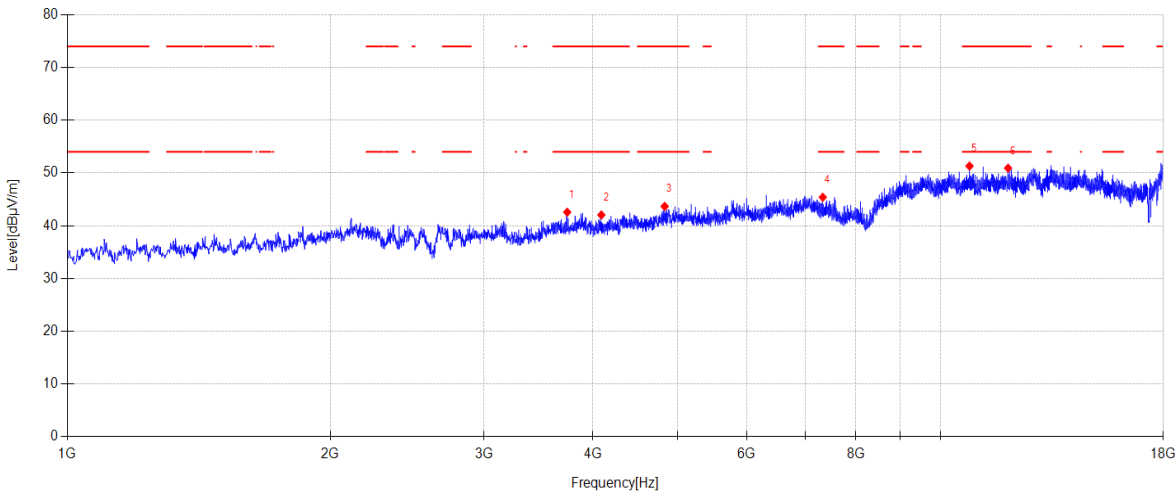
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\39

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3737.000	47.30	30.47	5.09	-40.29	42.57	74.00	31.43	PK	Horizontal
2	4088.900	46.28	31.08	5.10	-40.42	42.04	74.00	31.96	PK	Horizontal
3	4831.800	44.93	33.33	5.55	-40.14	43.67	74.00	30.33	PK	Horizontal
4	7332.500	43.47	36.84	6.62	-41.53	45.40	74.00	28.60	PK	Horizontal
5	10795.400	42.89	39.40	8.03	-39.01	51.31	74.00	22.69	PK	Horizontal
6	11951.400	42.68	39.05	8.73	-39.54	50.92	74.00	23.08	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2402MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

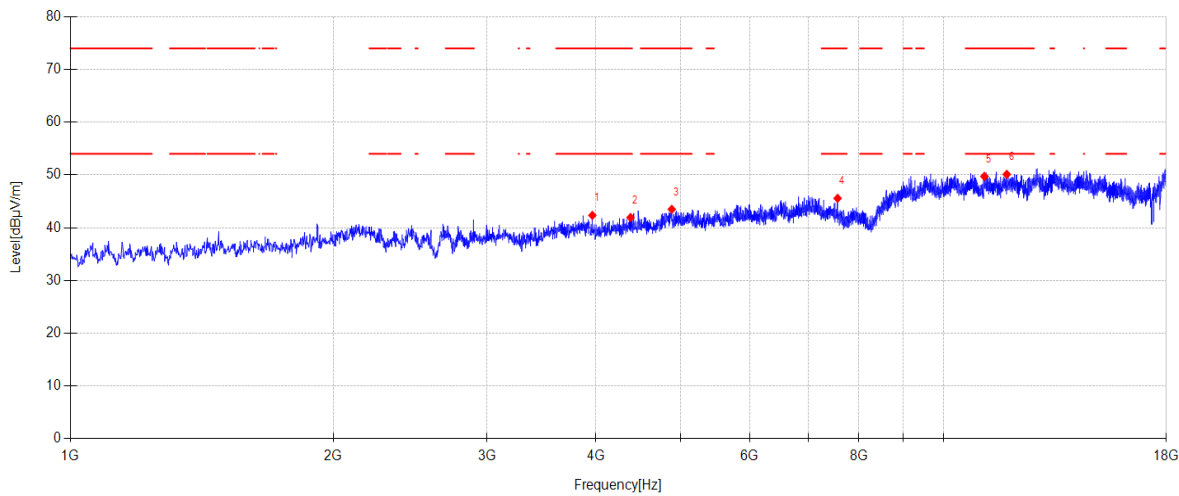
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\40

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3961.400	46.67	31.05	5.06	-40.43	42.35	74.00	31.65	PK	Vertical
2	4381.300	45.31	31.66	5.28	-40.31	41.94	74.00	32.06	PK	Vertical
3	4884.500	44.78	33.25	5.58	-40.12	43.49	74.00	30.51	PK	Vertical
4	7563.700	44.51	36.43	6.74	-42.11	45.57	74.00	28.43	PK	Vertical
5	11138.800	41.41	39.26	8.22	-39.16	49.73	74.00	24.27	PK	Vertical
6	11817.100	42.05	38.90	8.64	-39.47	50.12	74.00	23.88	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2441MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

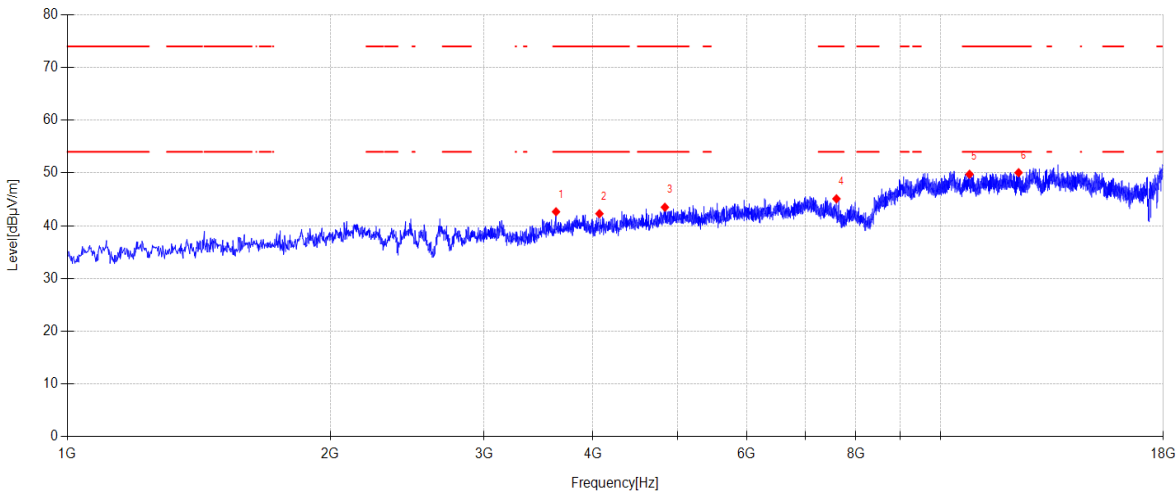
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\41

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3628.200	47.65	30.11	5.11	-40.22	42.65	74.00	31.35	PK	Horizontal
2	4068.500	46.57	31.04	5.09	-40.42	42.28	74.00	31.72	PK	Horizontal
3	4835.200	44.67	33.42	5.55	-40.14	43.50	74.00	30.50	PK	Horizontal
4	7601.100	44.04	36.50	6.76	-42.20	45.10	74.00	28.90	PK	Horizontal
5	10795.400	41.33	39.40	8.03	-39.01	49.75	74.00	24.25	PK	Horizontal
6	12288.000	41.52	39.30	8.91	-39.67	50.06	74.00	23.94	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2441MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

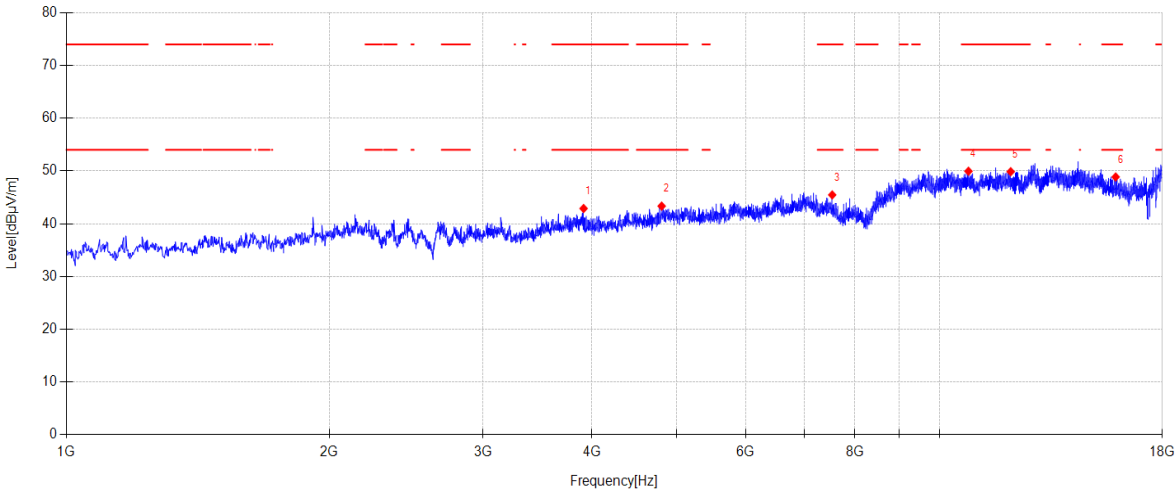
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\42

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3912.100	47.05	31.18	5.06	-40.40	42.89	74.00	31.11	PK	Vertical
2	4806.300	45.30	32.66	5.53	-40.15	43.34	74.00	30.66	PK	Vertical
3	7536.500	44.35	36.43	6.72	-42.04	45.46	74.00	28.54	PK	Vertical
4	10795.400	41.53	39.40	8.03	-39.01	49.95	74.00	24.05	PK	Vertical
5	12067.000	41.39	39.27	8.79	-39.59	49.86	74.00	24.14	PK	Vertical
6	15914.100	40.00	38.09	10.09	-39.31	48.87	74.00	25.13	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2480MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

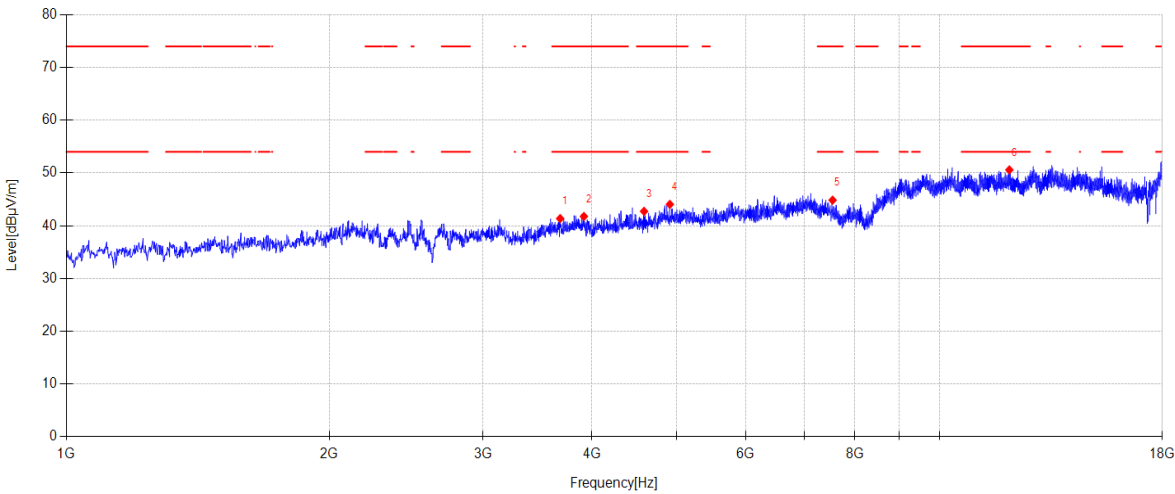
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\43

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3677.500	46.20	30.31	5.10	-40.25	41.36	74.00	32.64	PK	Horizontal
2	3915.500	45.93	31.17	5.06	-40.40	41.76	74.00	32.24	PK	Horizontal
3	4588.700	45.66	31.90	5.40	-40.23	42.73	74.00	31.27	PK	Horizontal
4	4911.700	45.54	33.02	5.60	-40.11	44.05	74.00	29.95	PK	Horizontal
5	7543.300	43.77	36.41	6.73	-42.06	44.85	74.00	29.15	PK	Horizontal
6	12024.500	42.16	39.22	8.77	-39.57	50.58	74.00	23.42	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2480MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

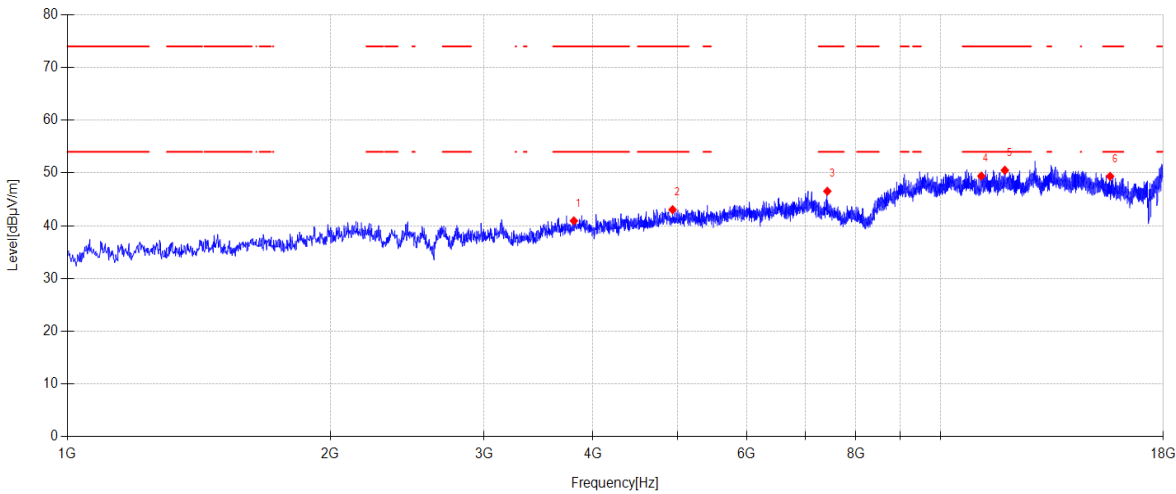
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\44

Memo:

L Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3803.300	45.47	30.71	5.08	-40.33	40.93	74.00	33.07	PK	Vertical
2	4933.800	44.46	33.07	5.61	-40.10	43.04	74.00	30.96	PK	Vertical
3	7420.900	44.97	36.66	6.66	-41.75	46.54	74.00	27.46	PK	Vertical
4	11138.800	41.09	39.26	8.22	-39.16	49.41	74.00	24.59	PK	Vertical
5	11851.100	42.43	38.90	8.67	-39.49	50.51	74.00	23.49	PK	Vertical
6	15642.100	40.04	38.56	9.91	-39.15	49.36	74.00	24.64	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2402MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

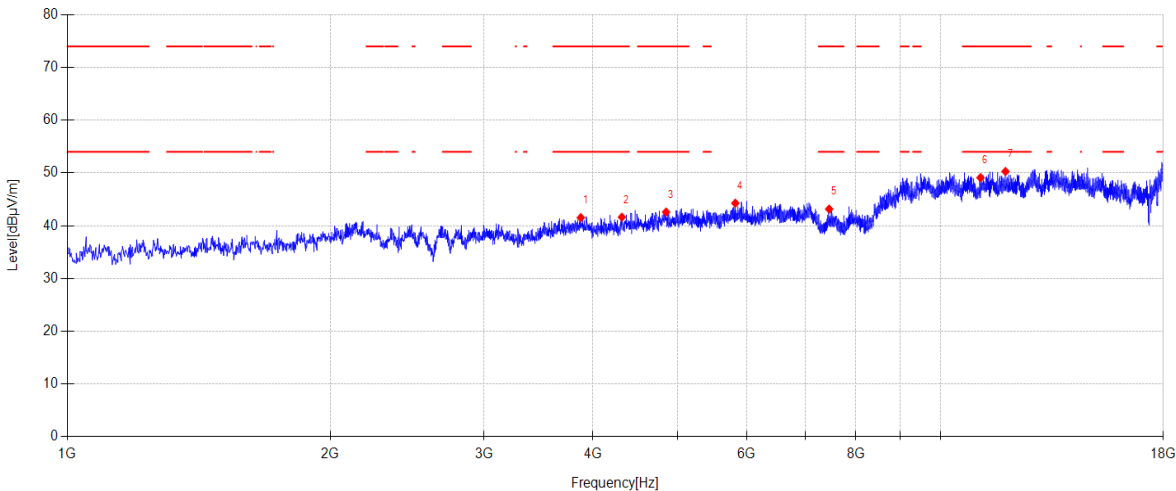
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\1

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3873.000	45.79	31.04	5.07	-40.37	41.53	74.00	32.47	PK	Horizontal
2	4316.700	45.12	31.60	5.24	-40.33	41.63	74.00	32.37	PK	Horizontal
3	4850.500	43.38	33.79	5.56	-40.14	42.59	74.00	31.41	PK	Horizontal
4	5821.200	44.03	34.12	6.09	-39.97	44.27	-	-	PK	Horizontal
5	7456.600	41.73	36.59	6.68	-41.84	43.16	74.00	30.84	PK	Horizontal
6	11113.300	40.75	39.29	8.20	-39.14	49.10	74.00	24.90	PK	Horizontal
7	11871.500	42.20	38.90	8.68	-39.50	50.28	74.00	23.72	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2402MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

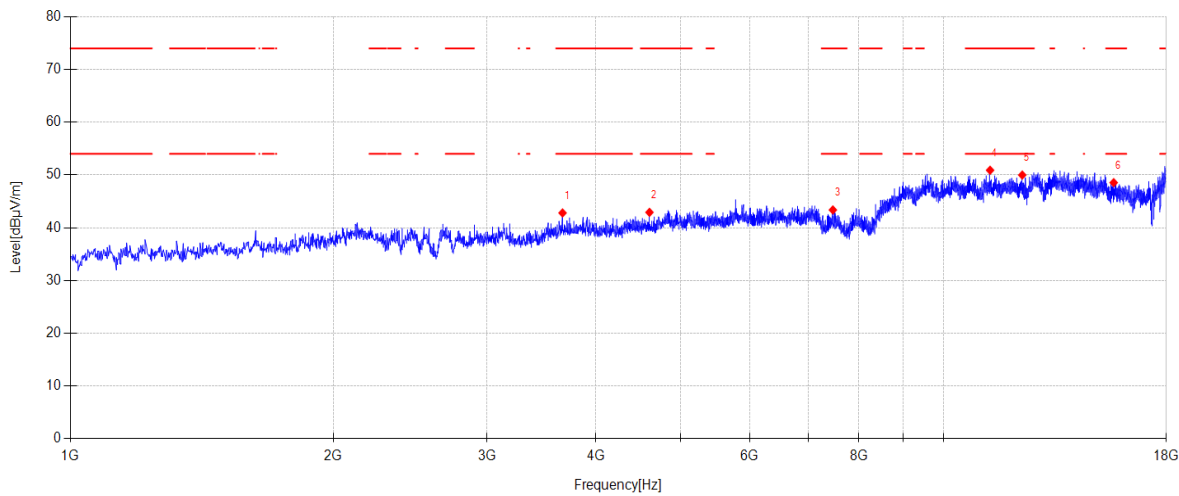
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\2

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3662.200	47.68	30.25	5.11	-40.24	42.80	74.00	31.20	PK	Vertical
2	4605.700	45.83	31.91	5.41	-40.23	42.92	74.00	31.08	PK	Vertical
3	7470.200	42.00	36.56	6.69	-41.88	43.37	74.00	30.63	PK	Vertical
4	11308.800	42.61	39.21	8.32	-39.24	50.90	74.00	23.10	PK	Vertical
5	12310.100	41.45	39.30	8.92	-39.68	49.99	74.00	24.01	PK	Vertical
6	15665.900	39.25	38.53	9.93	-39.16	48.55	74.00	25.45	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2480MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

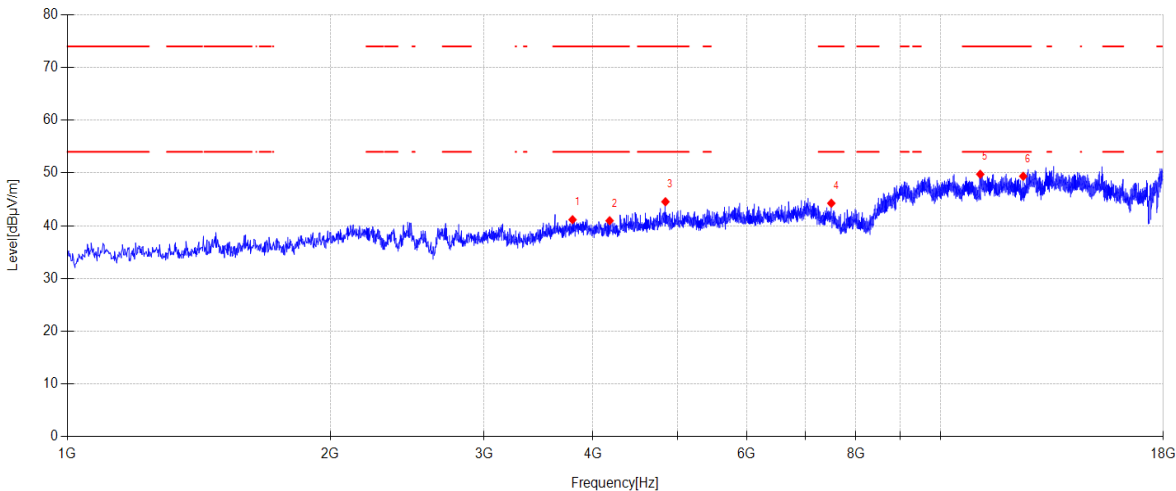
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\3

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3789.700	45.71	30.66	5.09	-40.32	41.14	74.00	32.86	PK	Horizontal
2	4179.000	44.97	31.20	5.16	-40.38	40.95	74.00	33.05	PK	Horizontal
3	4842.000	45.53	33.59	5.56	-40.14	44.54	74.00	29.46	PK	Horizontal
4	7499.100	43.01	36.50	6.70	-41.95	44.26	74.00	29.74	PK	Horizontal
5	11106.500	41.40	39.29	8.20	-39.14	49.75	74.00	24.25	PK	Horizontal
6	12439.300	40.78	39.34	8.98	-39.73	49.37	74.00	24.63	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2480MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

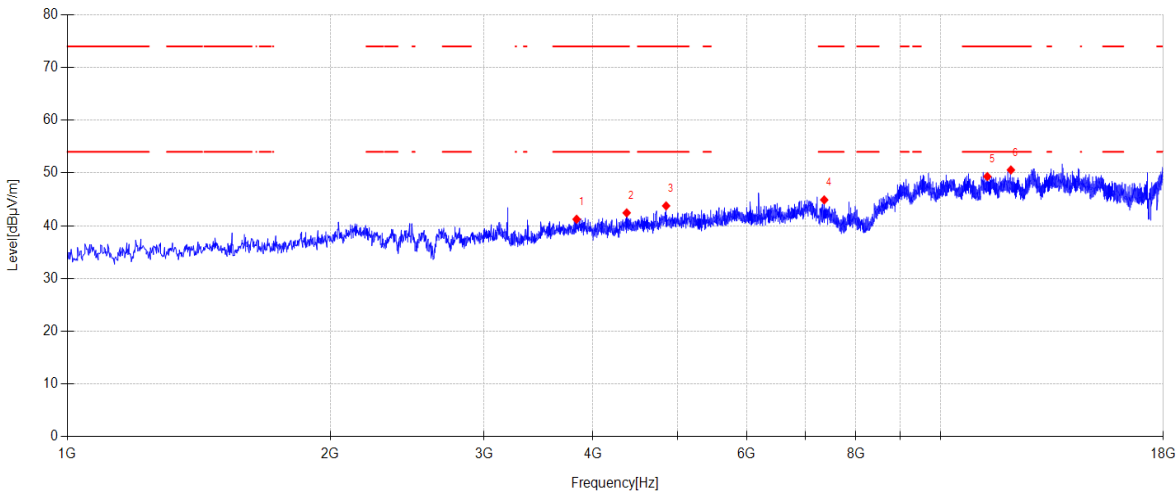
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\4

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3830.500	45.68	30.82	5.08	-40.35	41.23	74.00	32.77	PK	Vertical
2	4371.100	45.84	31.64	5.27	-40.31	42.44	74.00	31.56	PK	Vertical
3	4850.500	44.55	33.79	5.56	-40.14	43.76	74.00	30.24	PK	Vertical
4	7359.700	43.09	36.78	6.63	-41.60	44.90	74.00	29.10	PK	Vertical
5	11315.600	41.01	39.22	8.33	-39.24	49.32	74.00	24.68	PK	Vertical
6	12041.500	42.13	39.24	8.78	-39.58	50.57	74.00	23.43	PK	Vertical

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2441MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

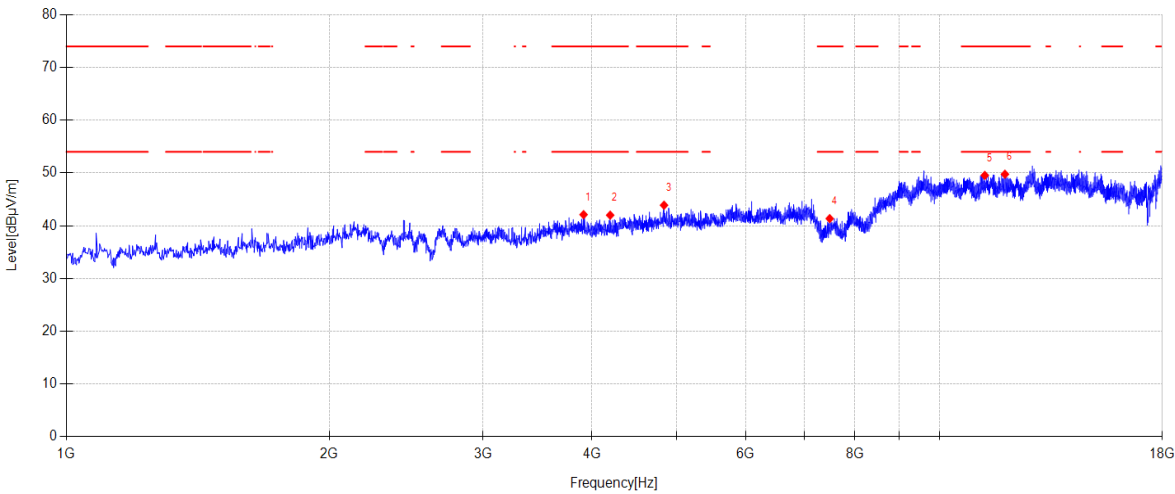
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\5

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3912.100	46.26	31.18	5.06	-40.40	42.10	74.00	31.90	PK	Horizontal
2	4196.000	46.01	31.20	5.17	-40.38	42.00	74.00	32.00	PK	Horizontal
3	4836.900	45.02	33.46	5.55	-40.14	43.89	74.00	30.11	PK	Horizontal
4	7487.200	40.04	36.53	6.70	-41.92	41.35	74.00	32.65	PK	Horizontal
5	11269.700	41.26	39.20	8.30	-39.22	49.54	74.00	24.46	PK	Horizontal
6	11885.100	41.68	38.90	8.69	-39.51	49.76	74.00	24.24	PK	Horizontal

Note:

- Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-08-29

Tested By:

Zhong Nan

EUT:

True Wireless Earbuds

Model Number:

Epic Sport ANC 3

Test Mode:

DH5 2441MHz TX Mode

Power Supply:

Battery

Condition:

Temp:24.5°C;Humi:47.4%

Test Site:

DDT 3# Chamber

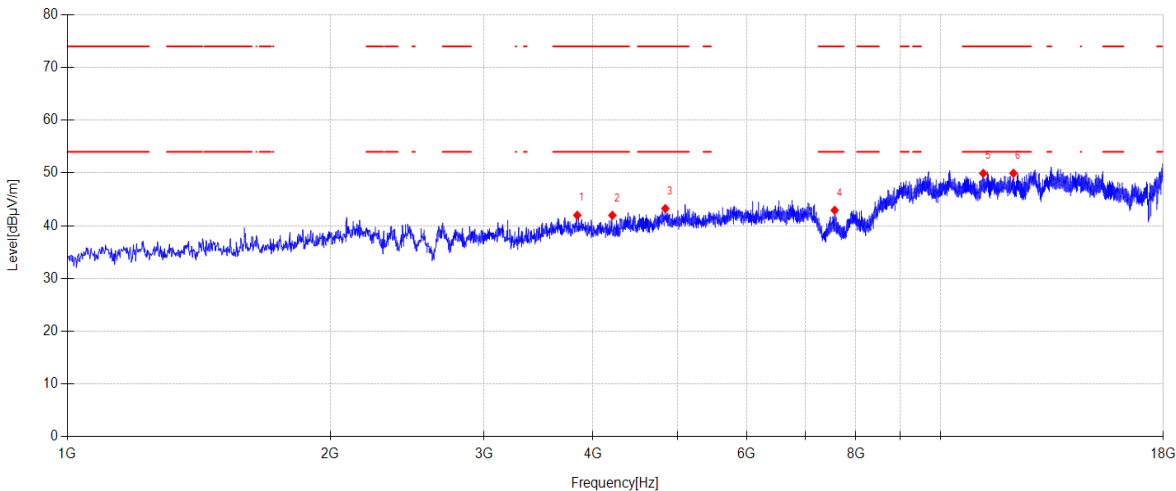
File Path:

d:\ts\2024 report data\Q24052818\FCC ABOVE1G\6

Memo:

R Sample Number:S240052818-001

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	3837.300	46.41	30.85	5.08	-40.35	41.99	74.00	32.01	PK	Vertical
2	4209.600	45.92	31.24	5.18	-40.37	41.97	74.00	32.03	PK	Vertical
3	4840.300	44.29	33.55	5.55	-40.14	43.25	74.00	30.75	PK	Vertical
4	7565.400	41.87	36.43	6.74	-42.11	42.93	74.00	31.07	PK	Vertical
5	11194.900	41.65	39.21	8.25	-39.18	49.93	74.00	24.07	PK	Vertical
6	12123.100	41.44	39.30	8.82	-39.61	49.95	74.00	24.05	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

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

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

15.Band Edge Compliance

15.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2025/04/26
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2025/03/31
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2025/03/31
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/11
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2025/07/11
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2025/03/31
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2025/04/22
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2025/08/25
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2025/03/31
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2025/03/31
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2025/04/22
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2025/03/31
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
High Pass filter	Xi'an Xingbo	XBLBQ-GTA67	DDT-ZC02179	2025/04/22
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2025/03/31
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2025/08/28
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2025/03/31
Hochgewinn-Hornantenne	SCHWARZBEC K	BBHA 9120 D	DDT-ZC02129	2025/09/18