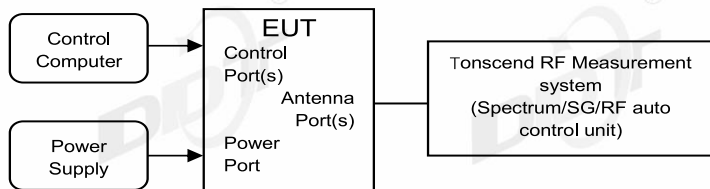


## 11. RF Conducted Spurious Emissions

### 11.1. Block diagram of test setup



### 11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

### 11.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{Span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold

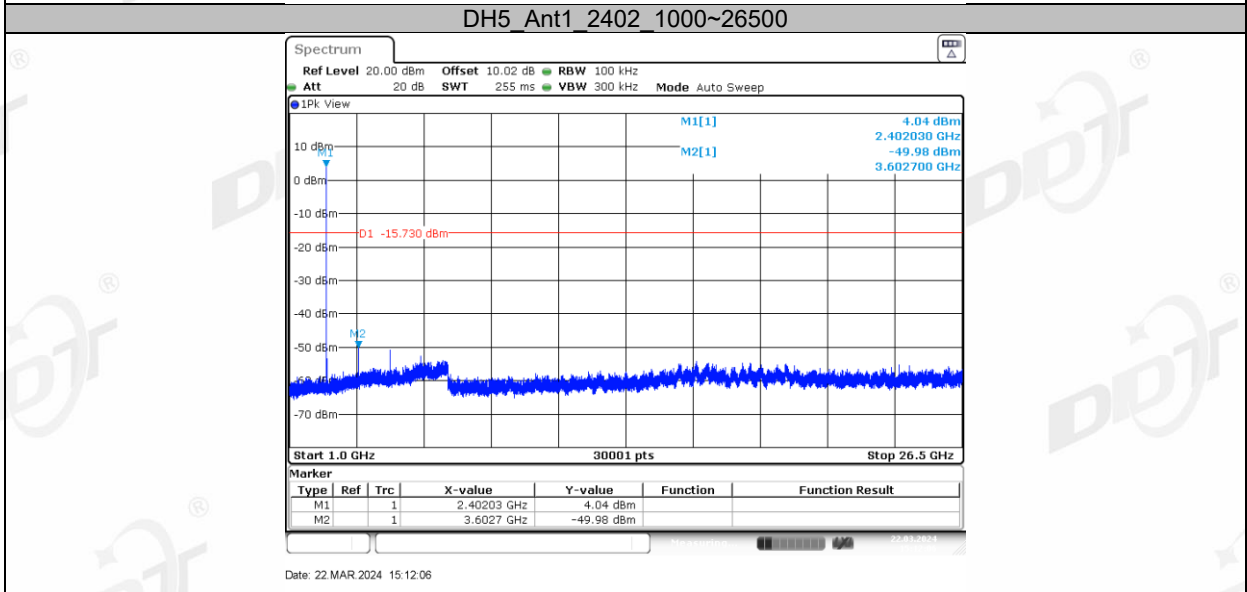
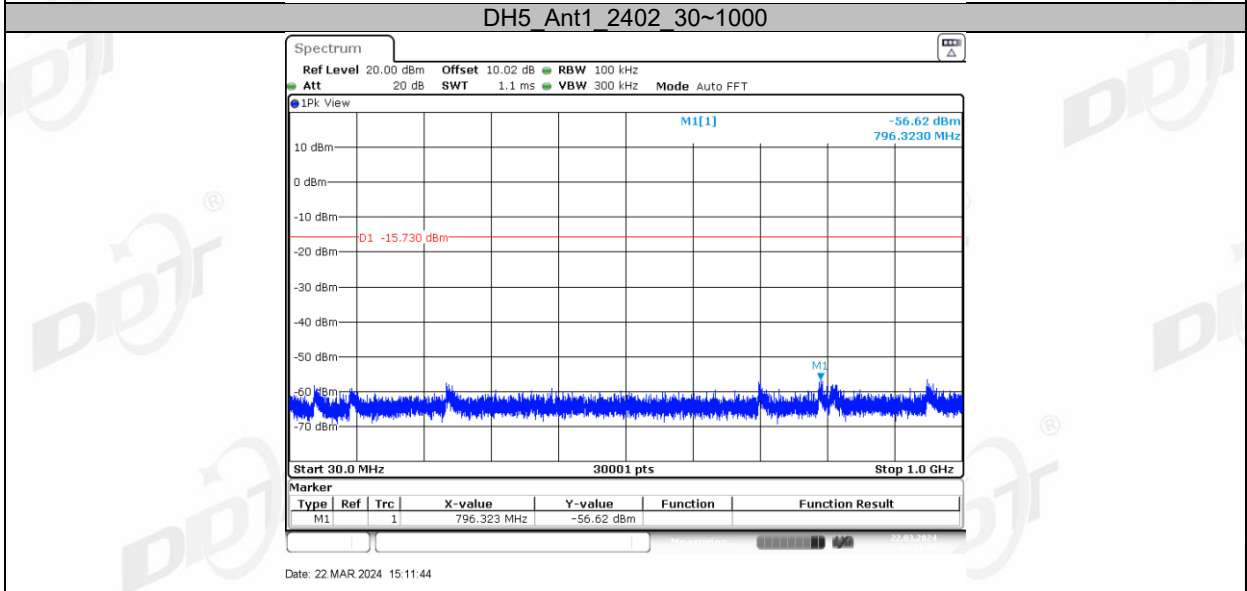
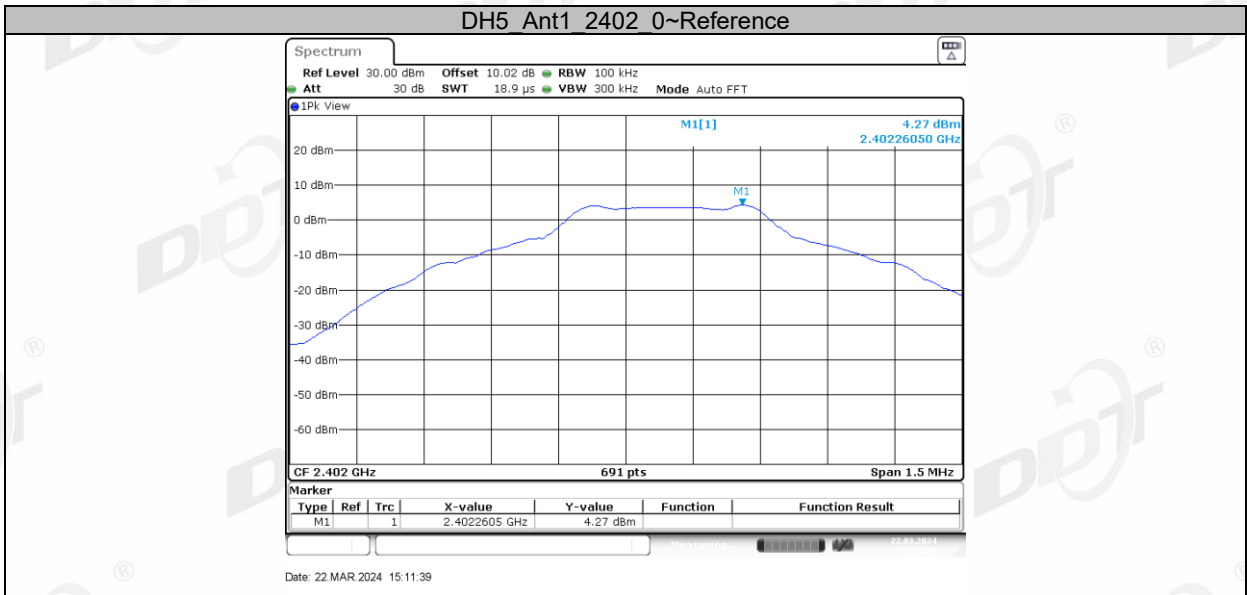
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

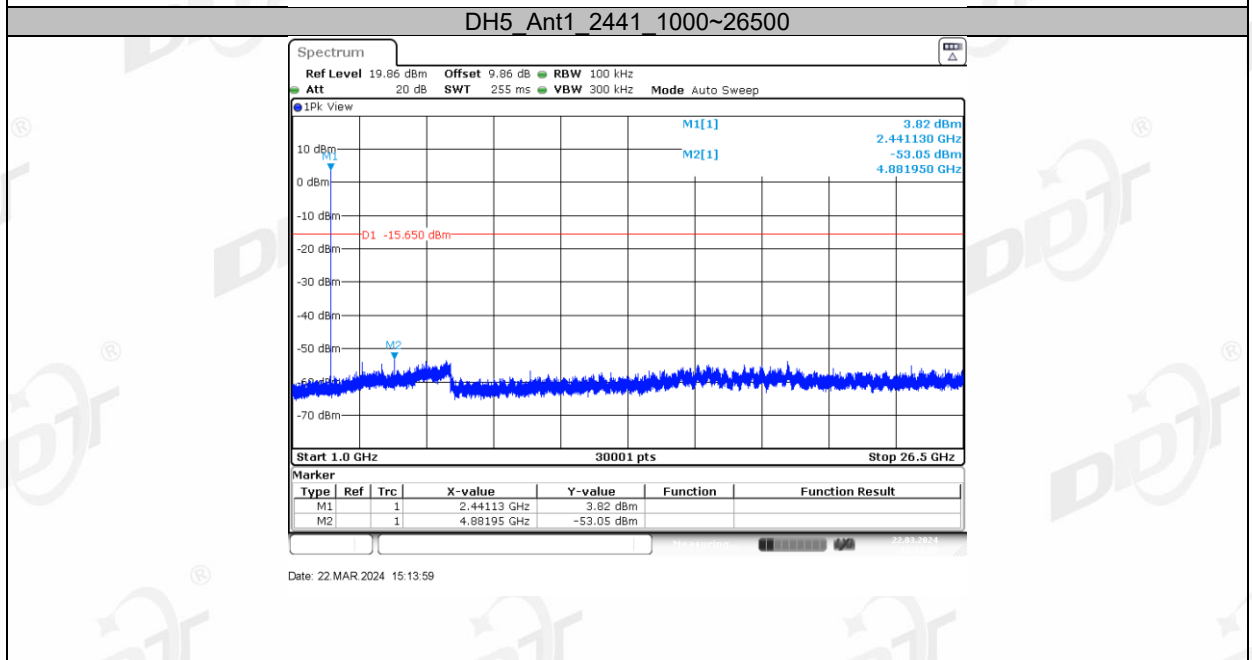
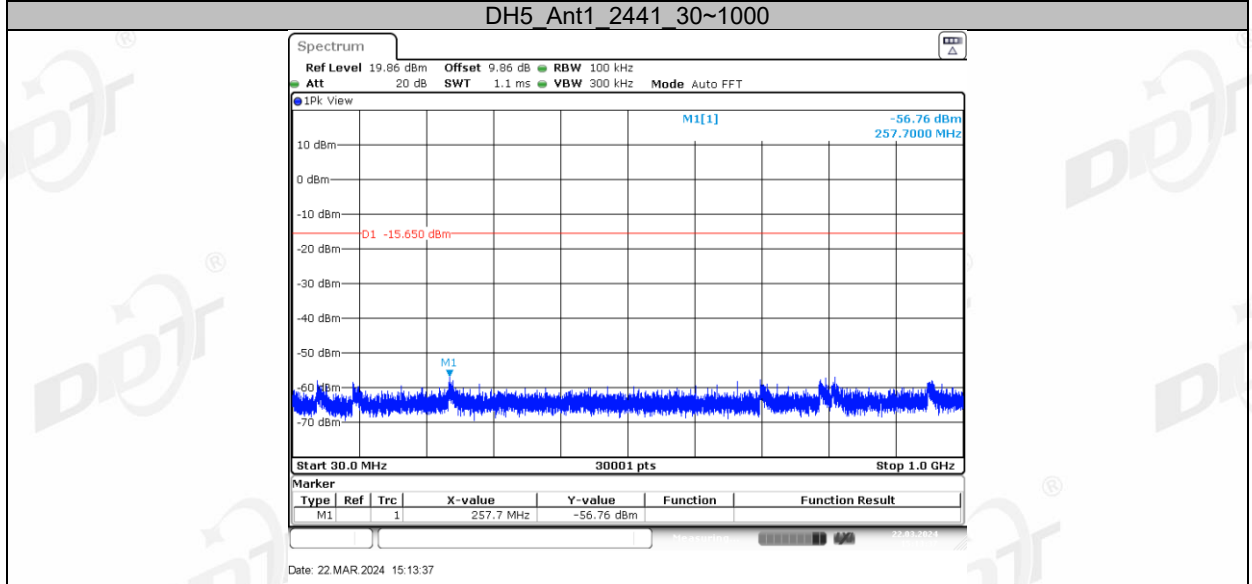
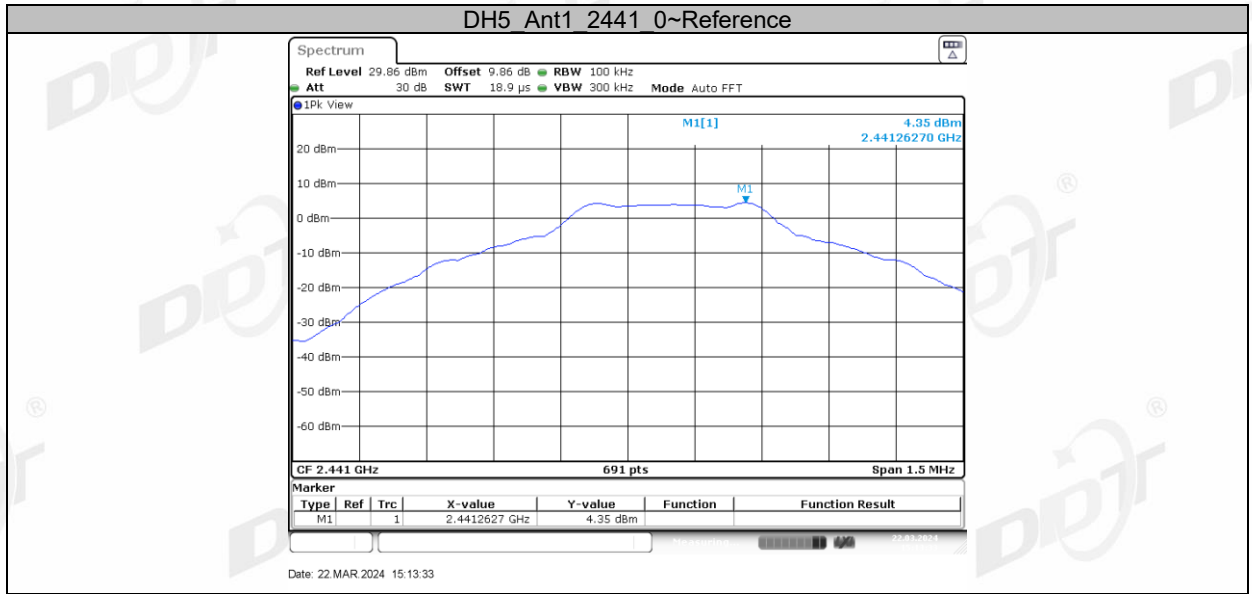
#### 11.4. Test result

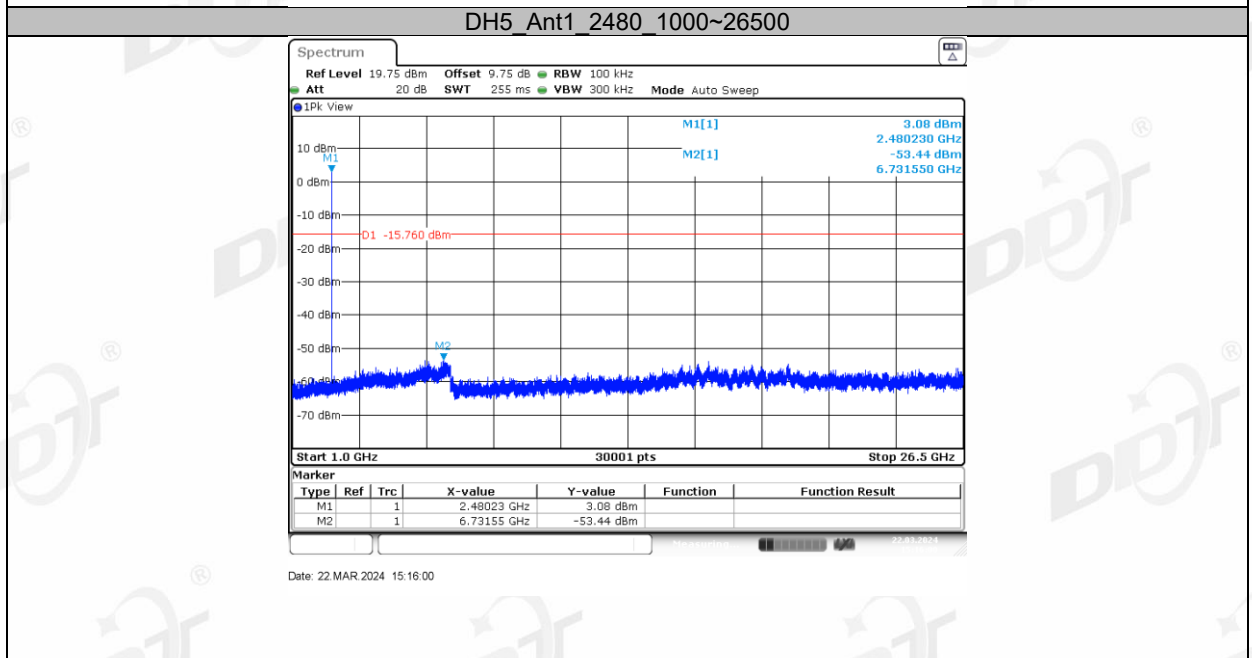
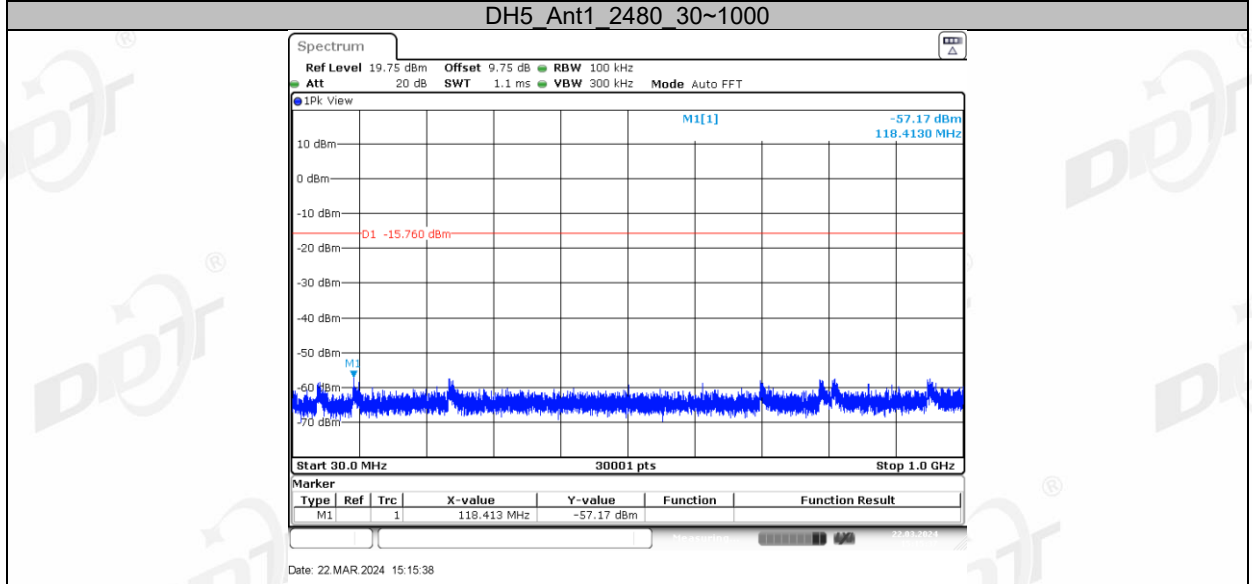
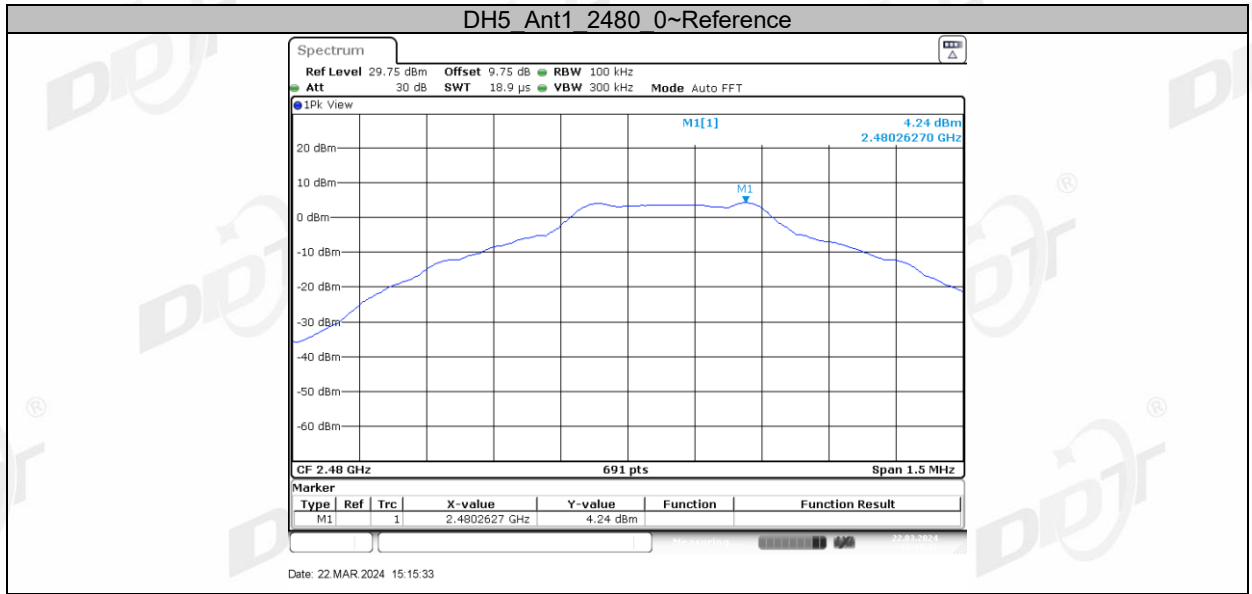
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.6°C, 49.0%RH	Test Date:	2024.03.22
Test Power Supply:	DC 14.4V	Sample Number:	S24022128-006

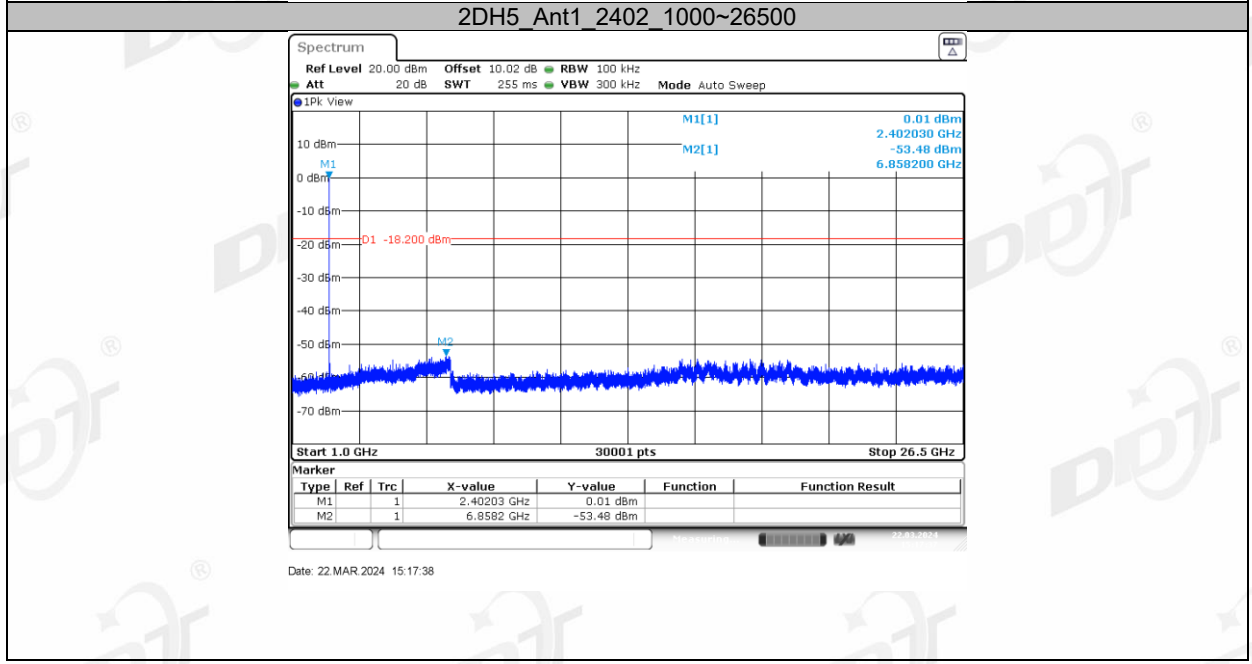
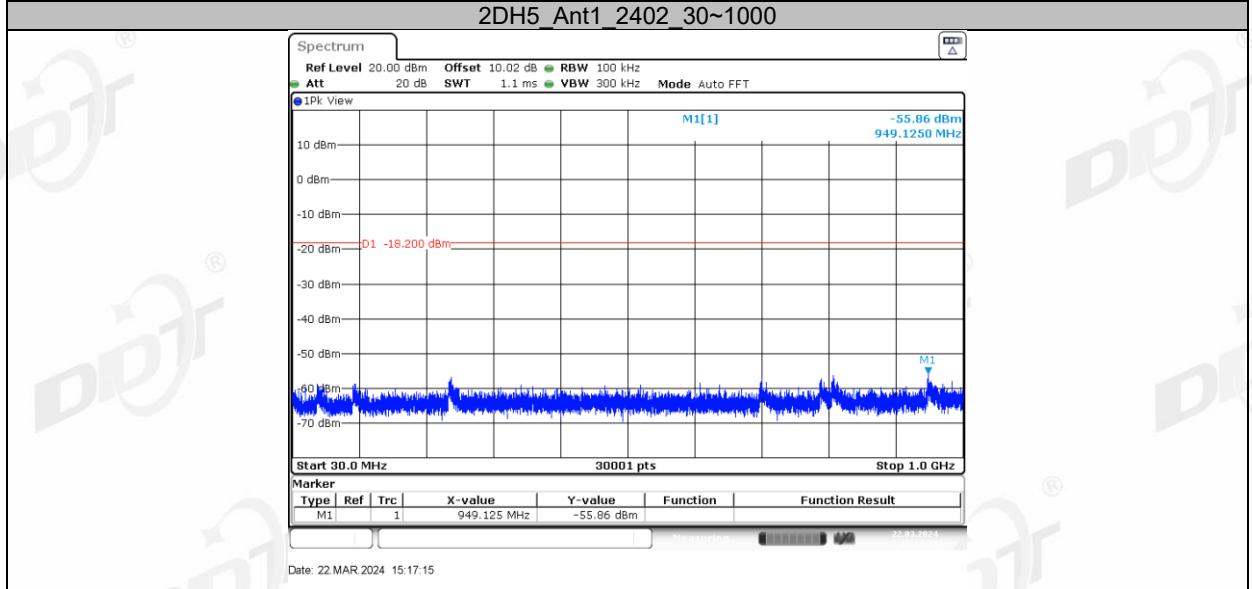
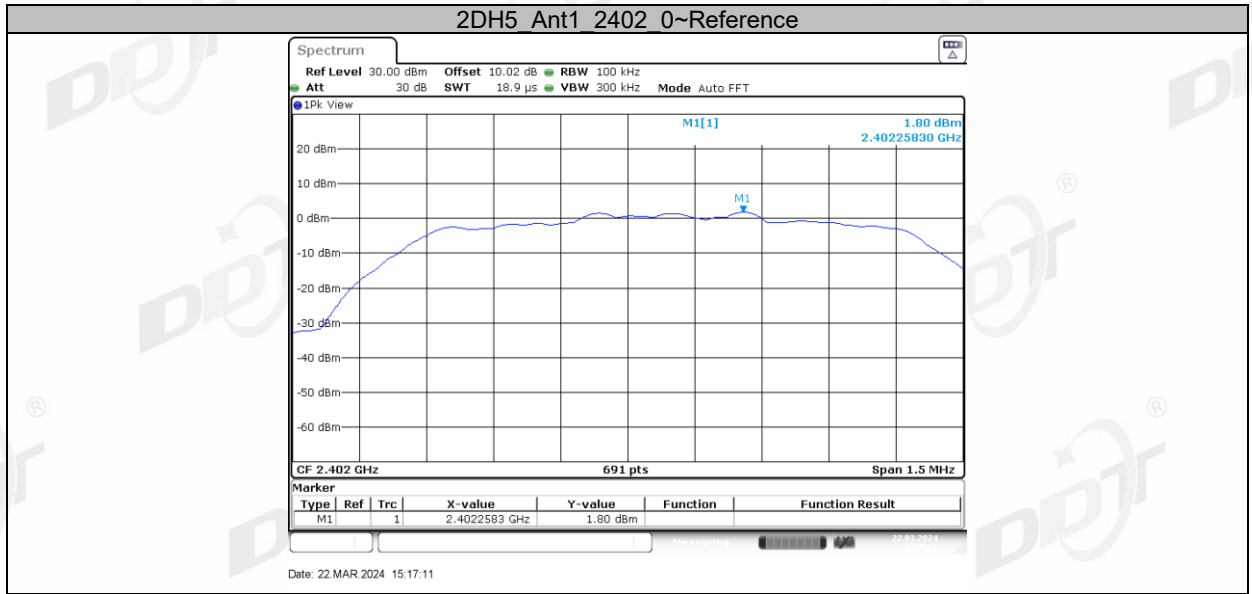
Mode	Frequency (MHz)	Verdict
DH5	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
2DH5	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
3DH5	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

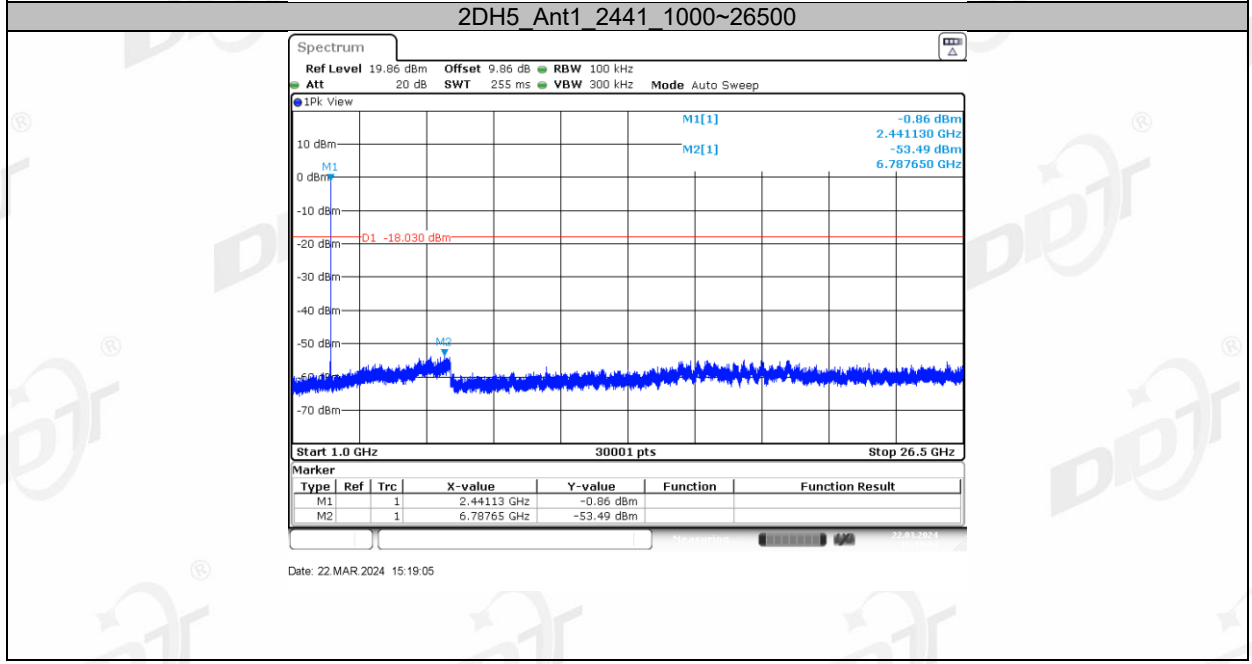
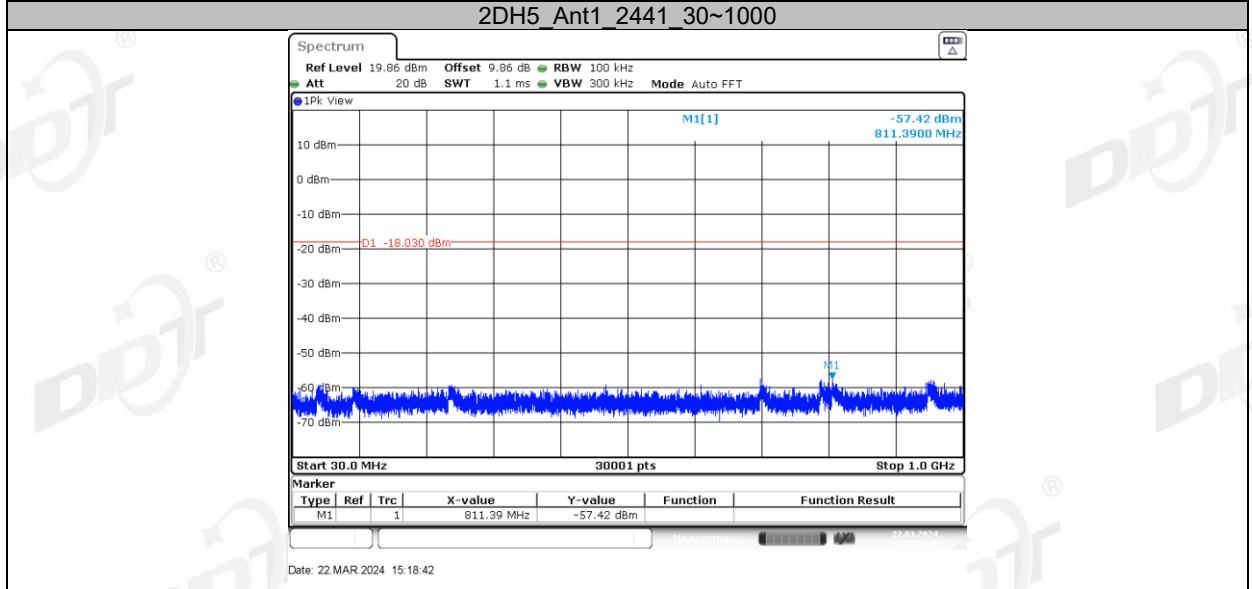
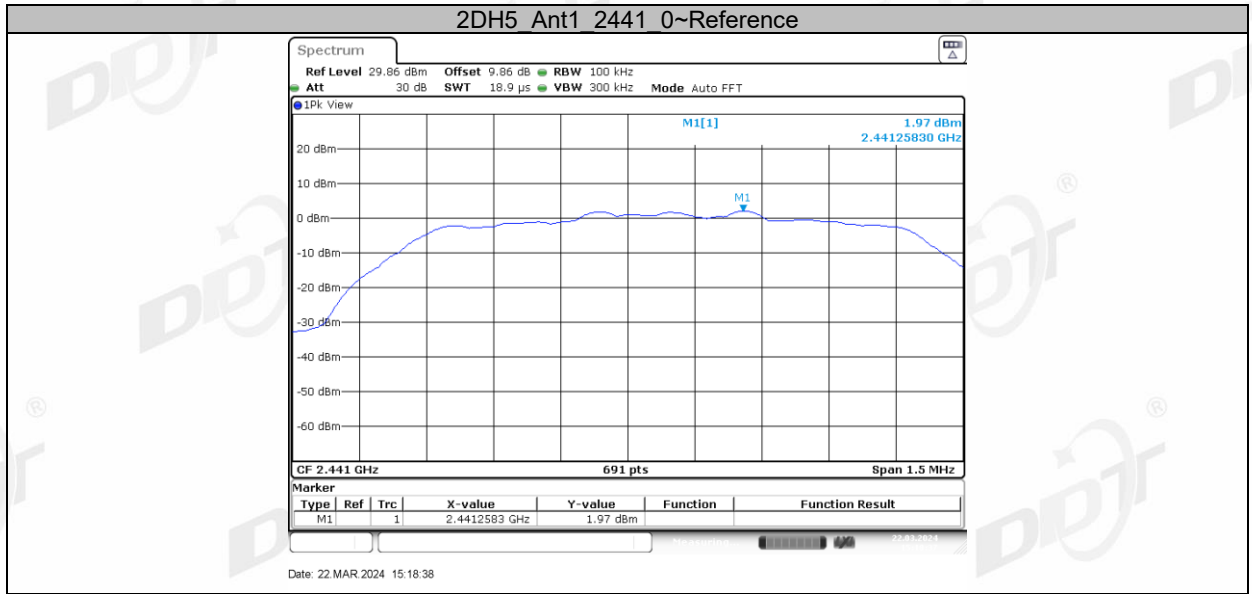
11.5. Test graphs

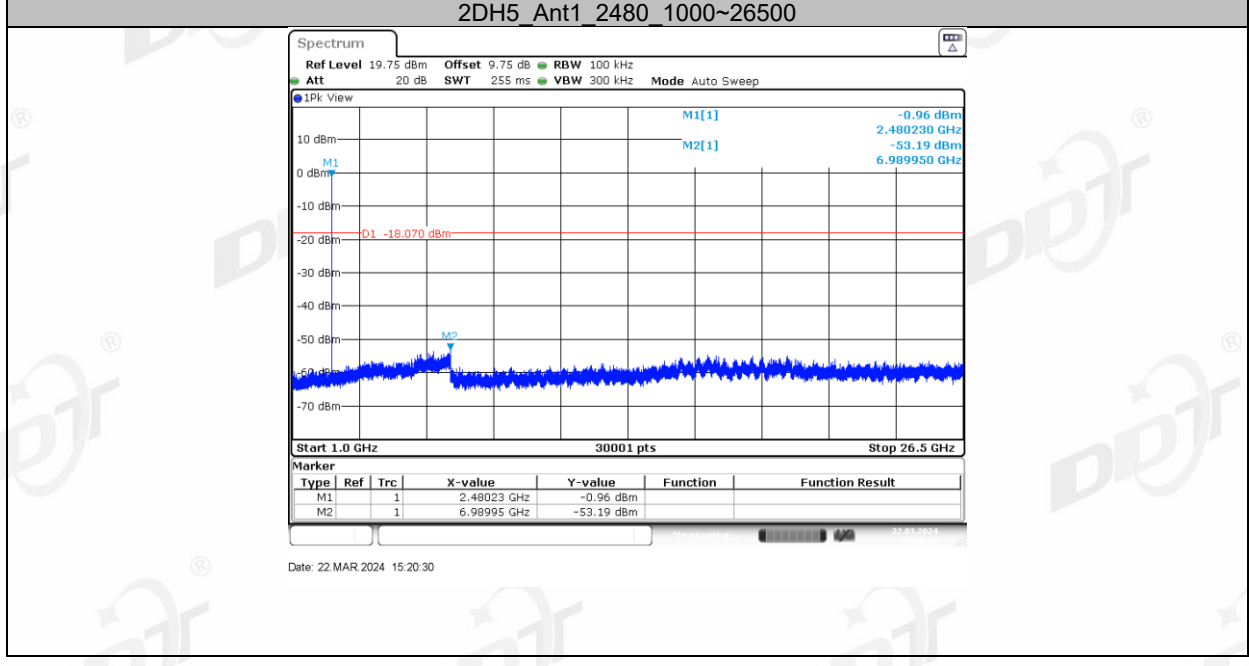
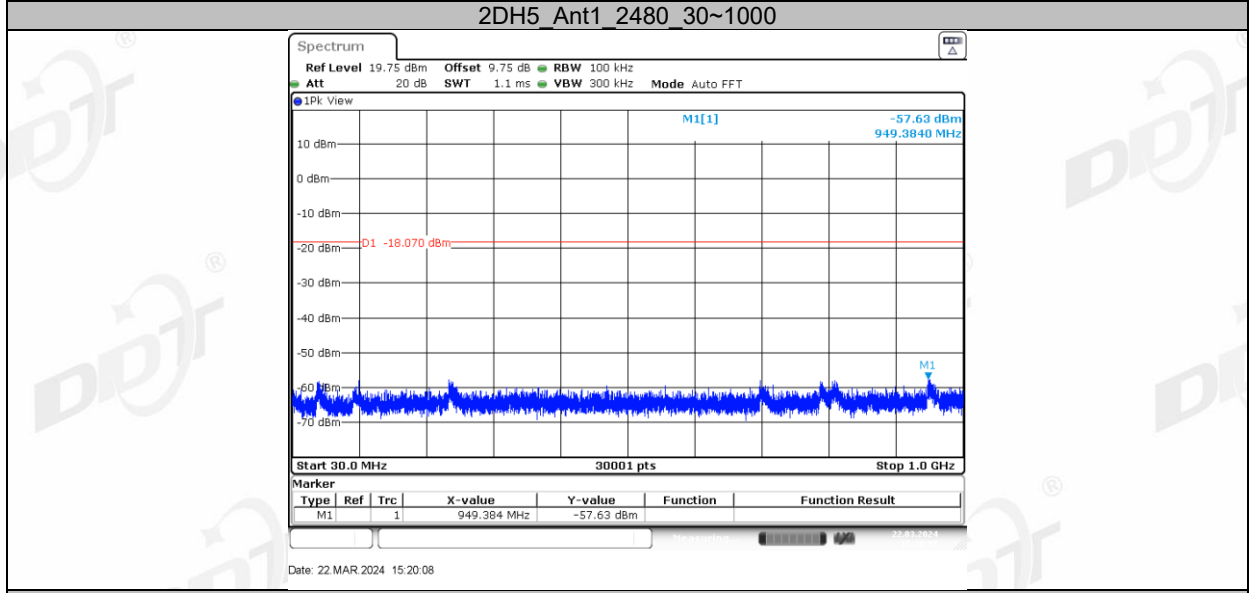
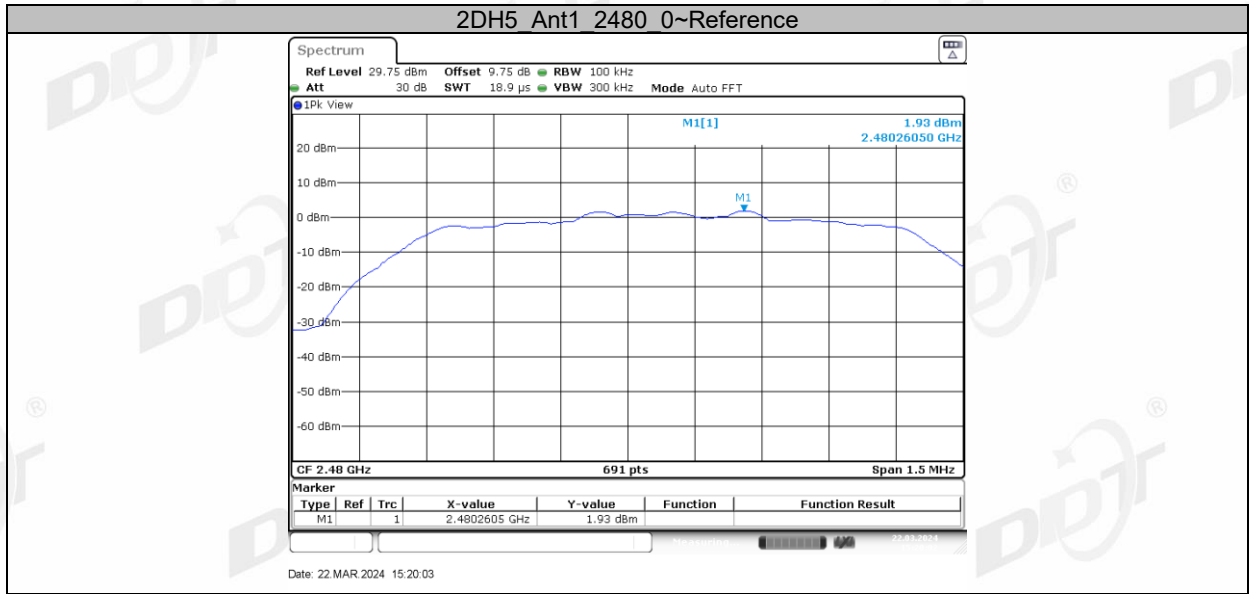




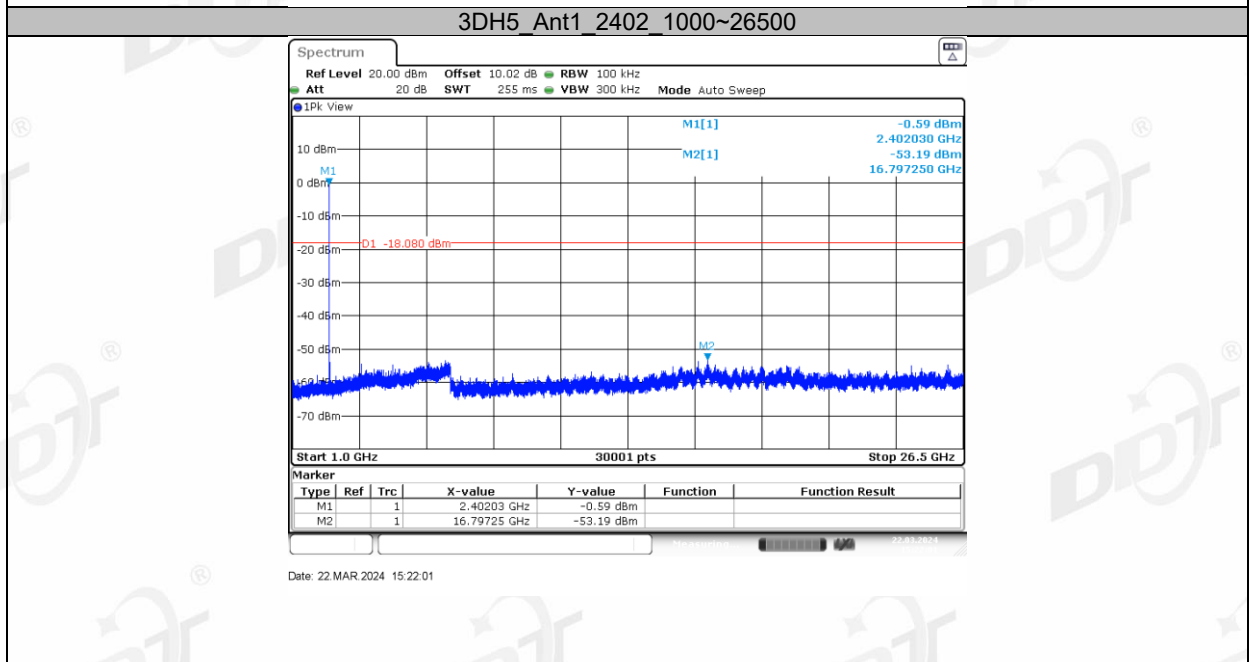
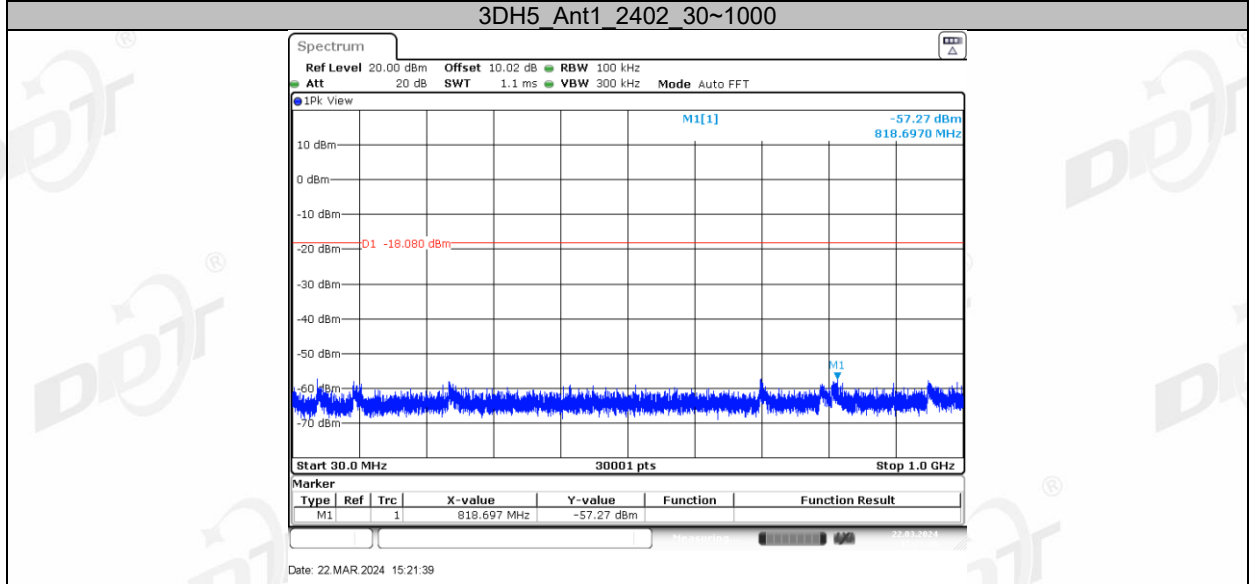
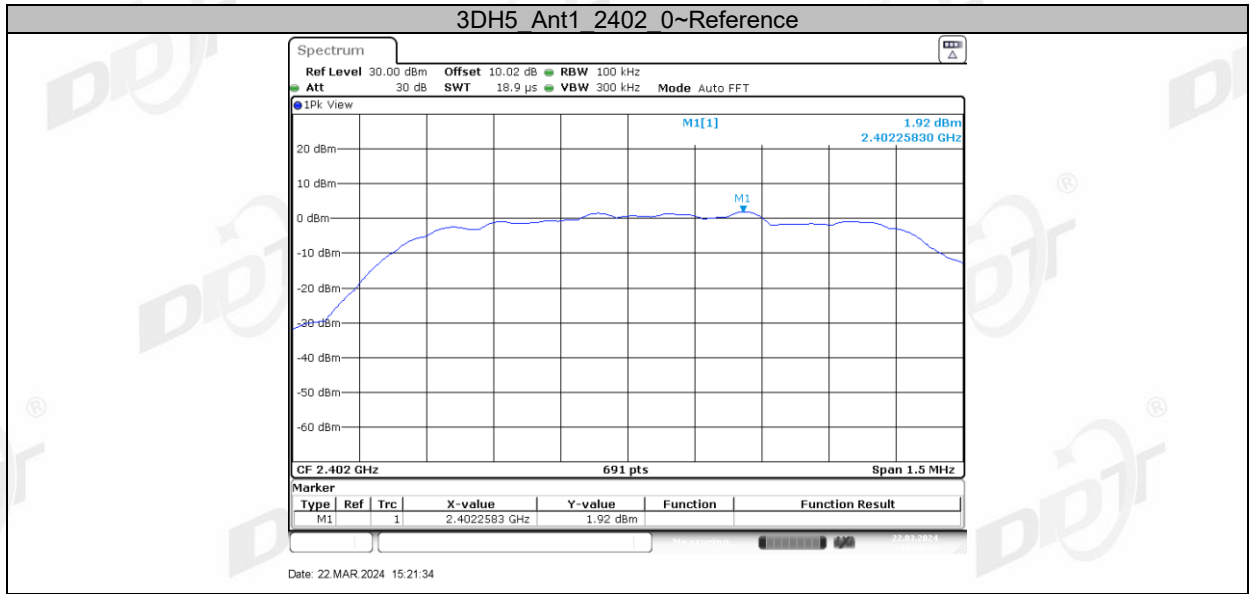


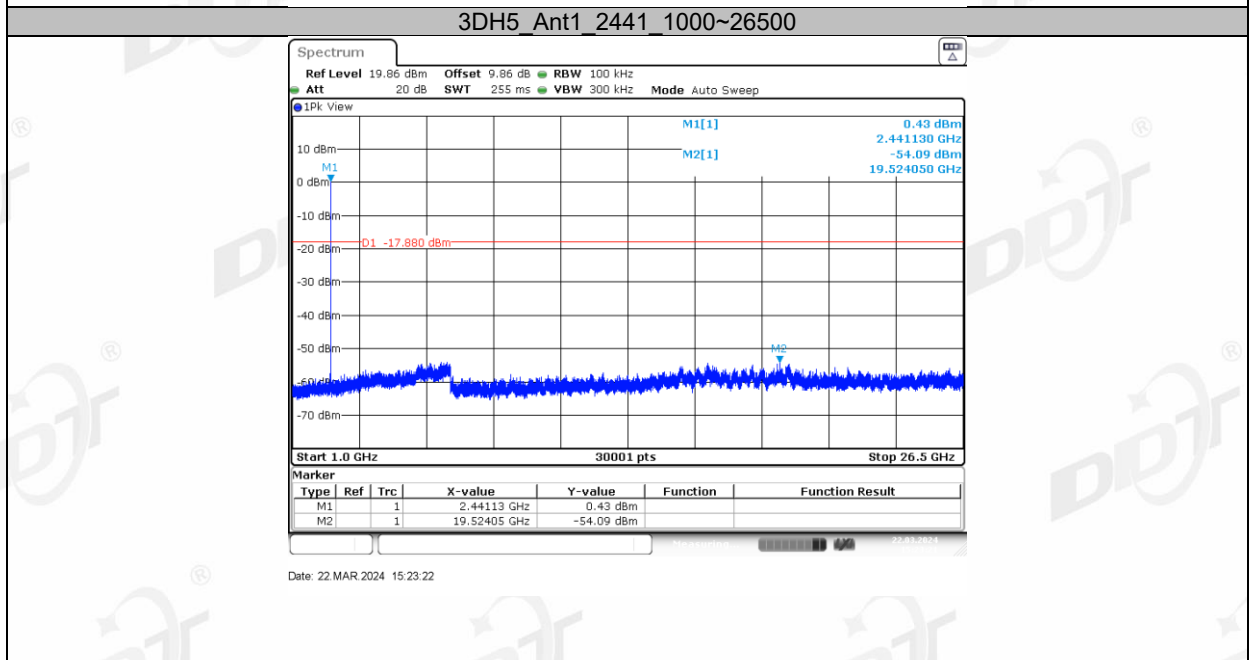
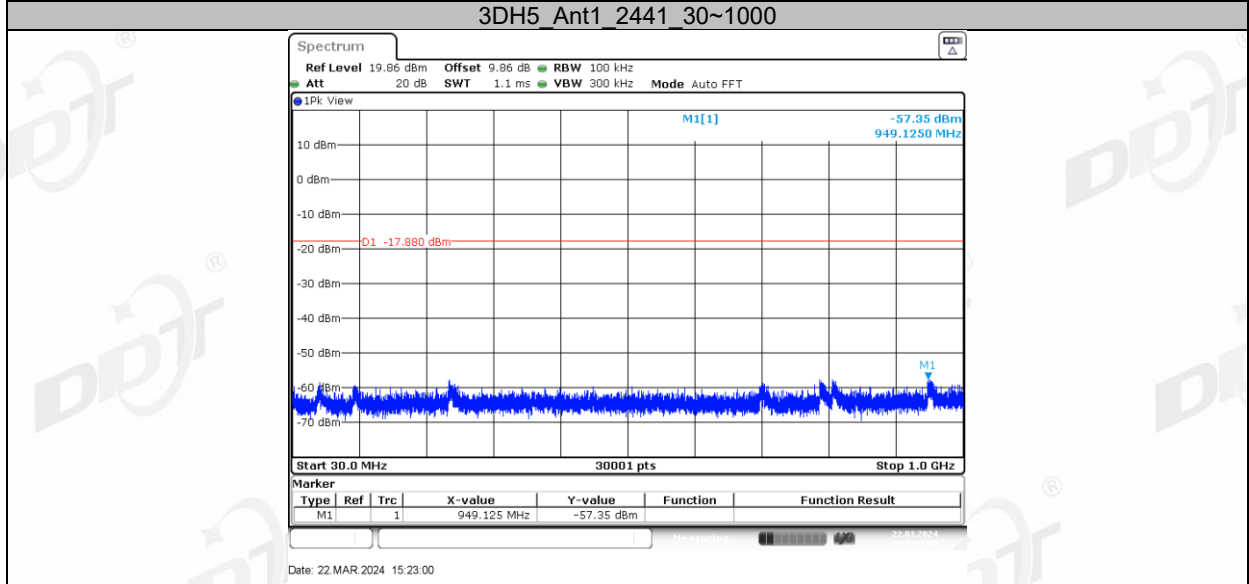
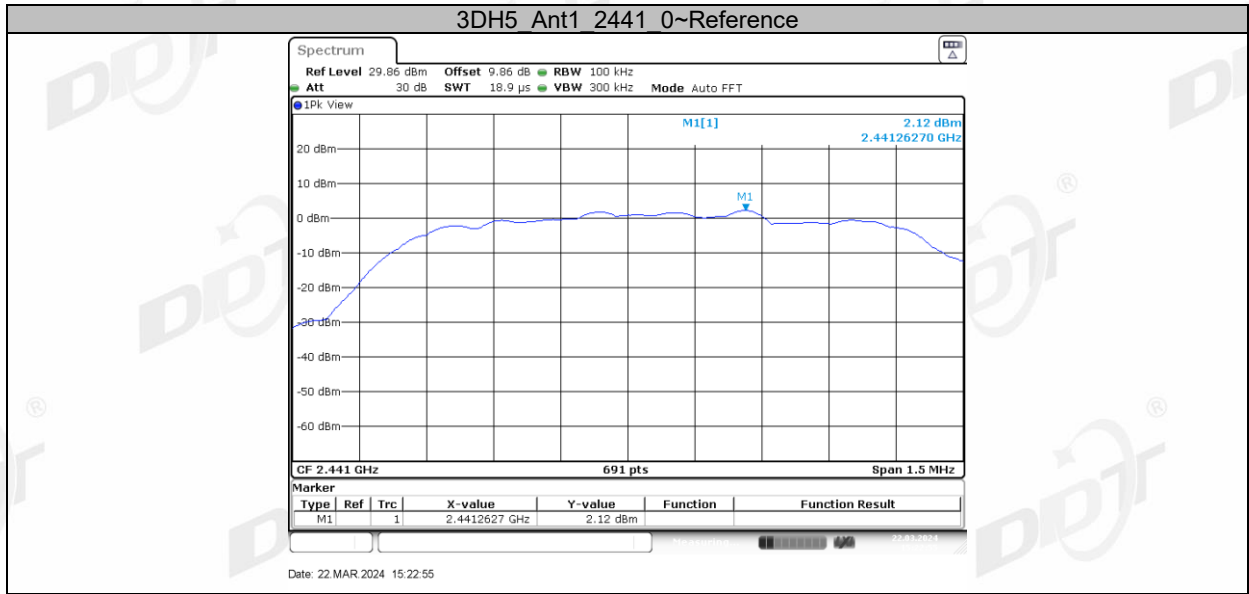


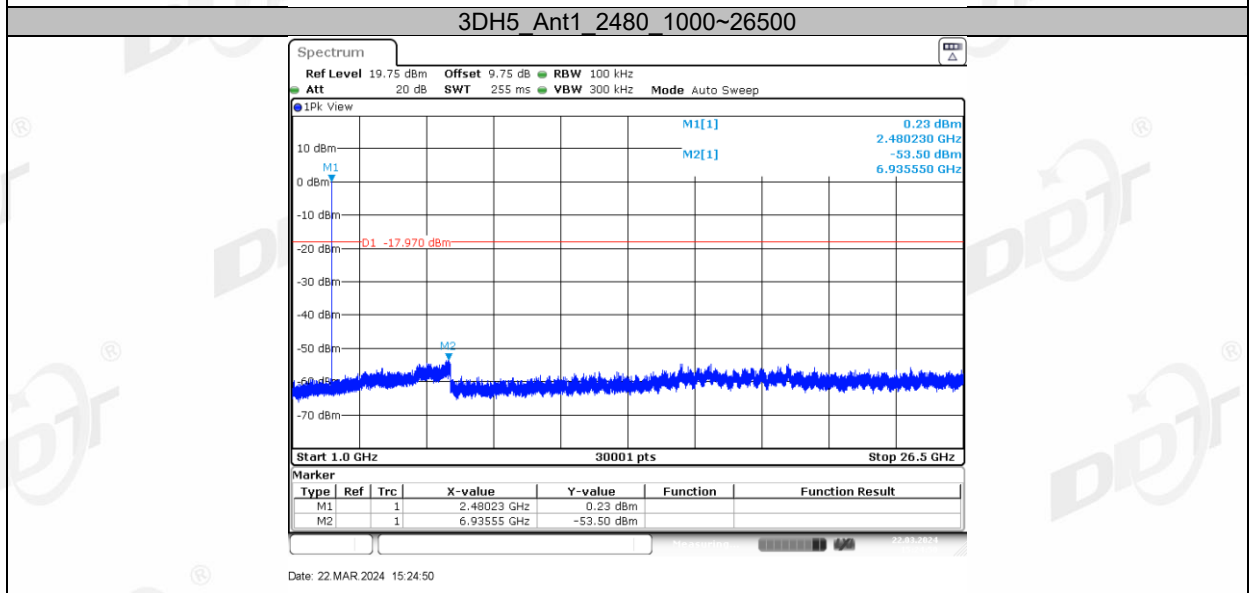
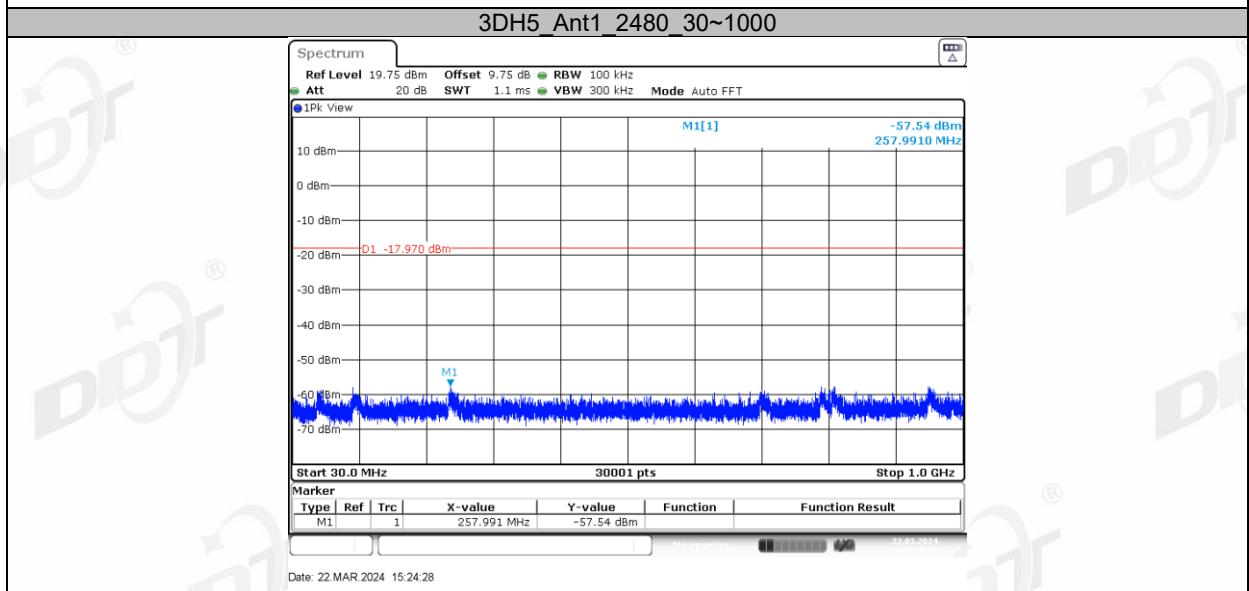
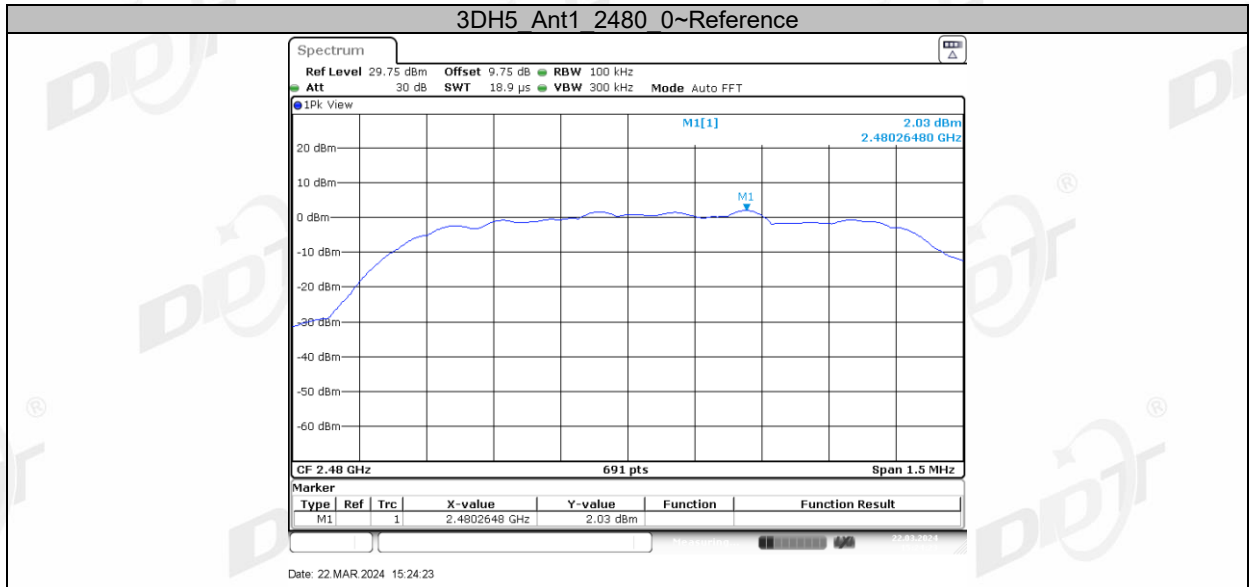






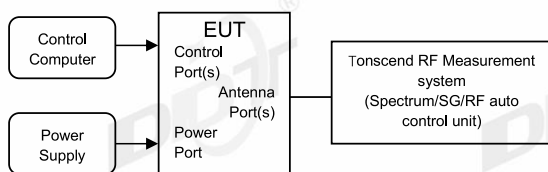






## 12. Duty cycle

### 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

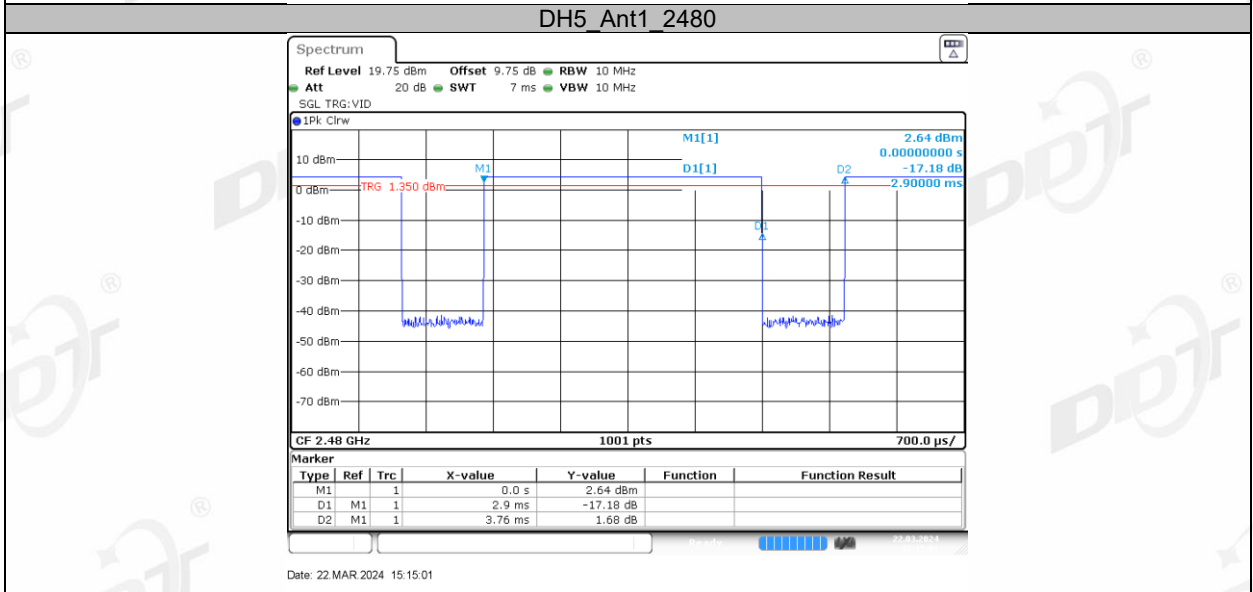
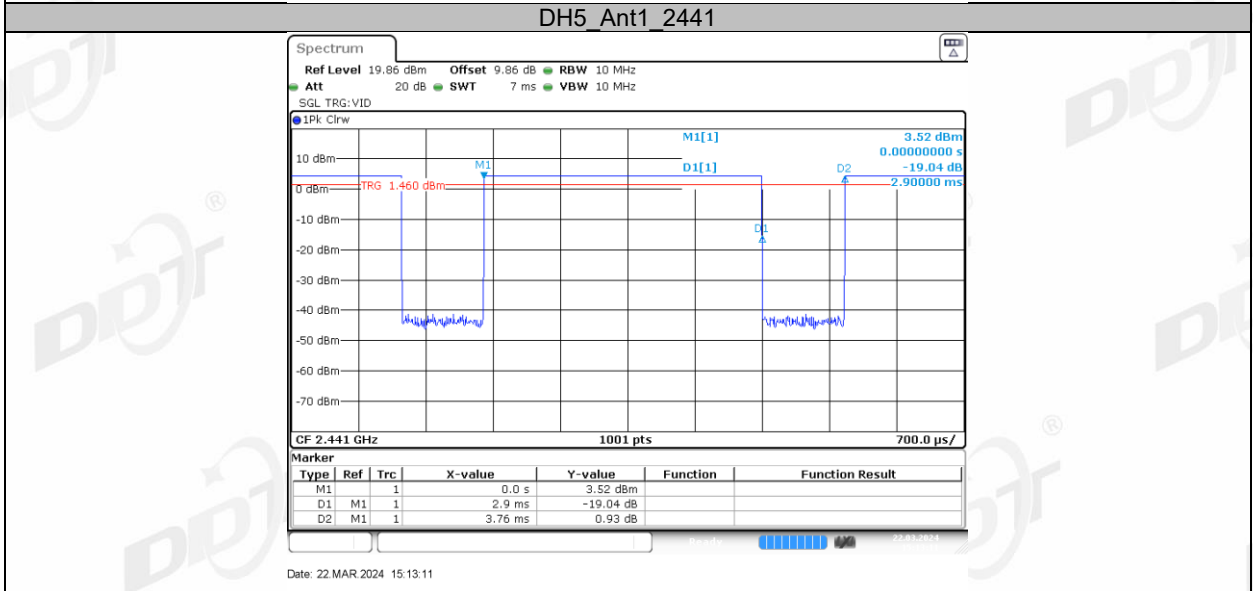
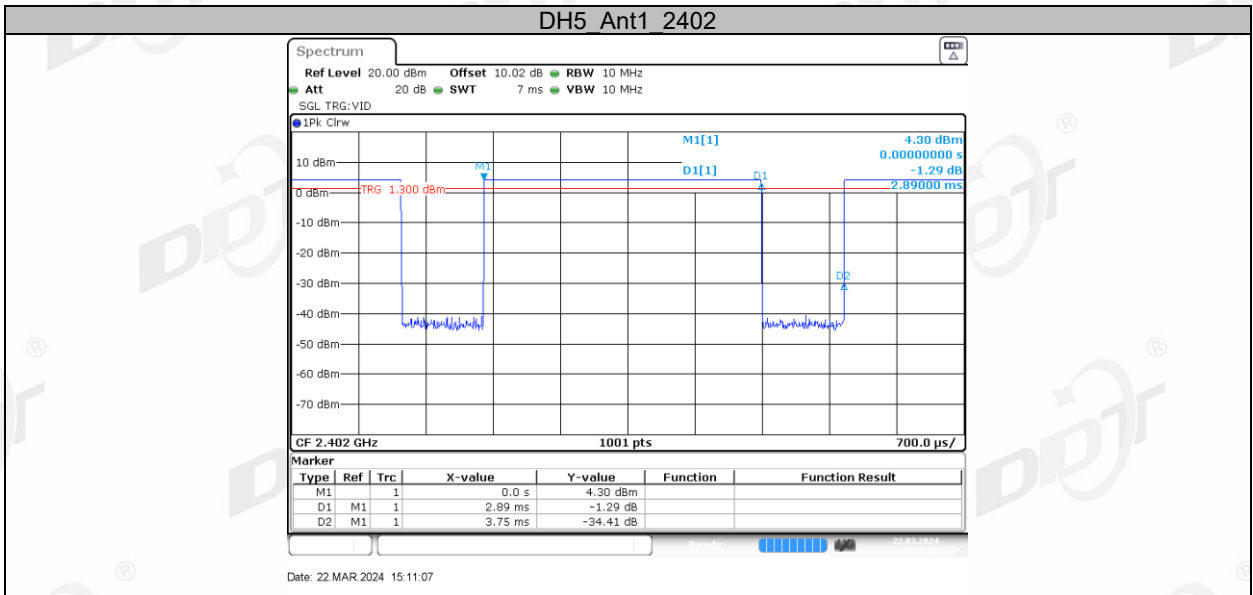
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:  
Duty cycle= Pulse's on time / Burst cycle

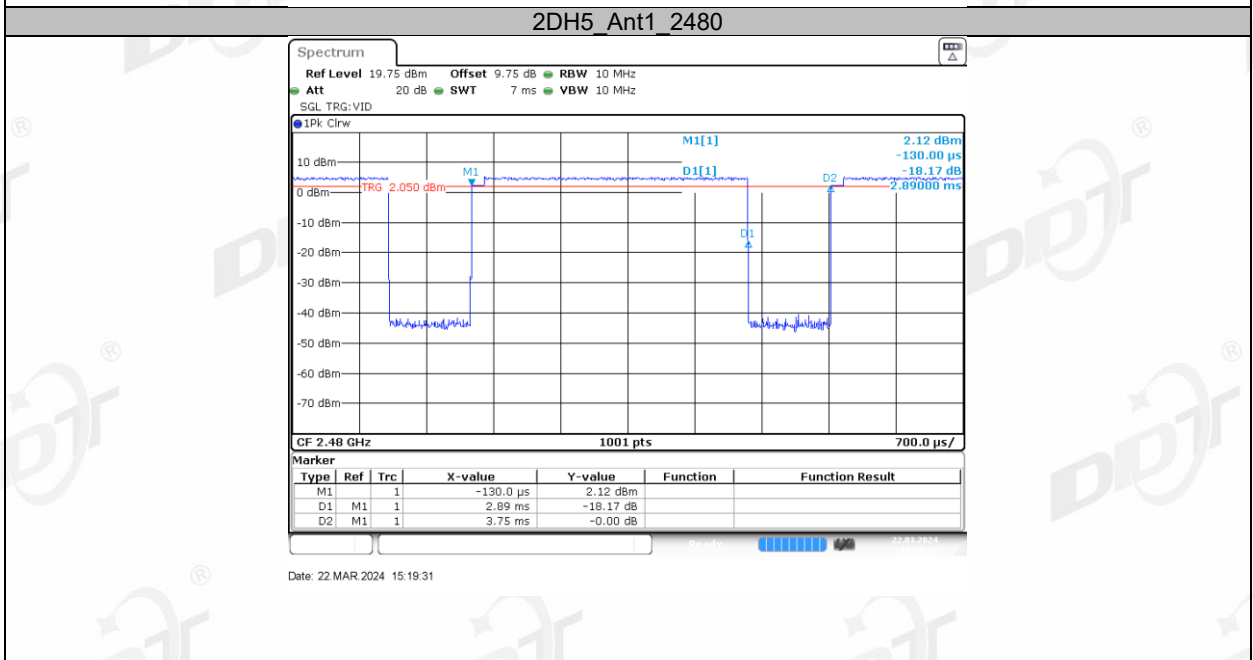
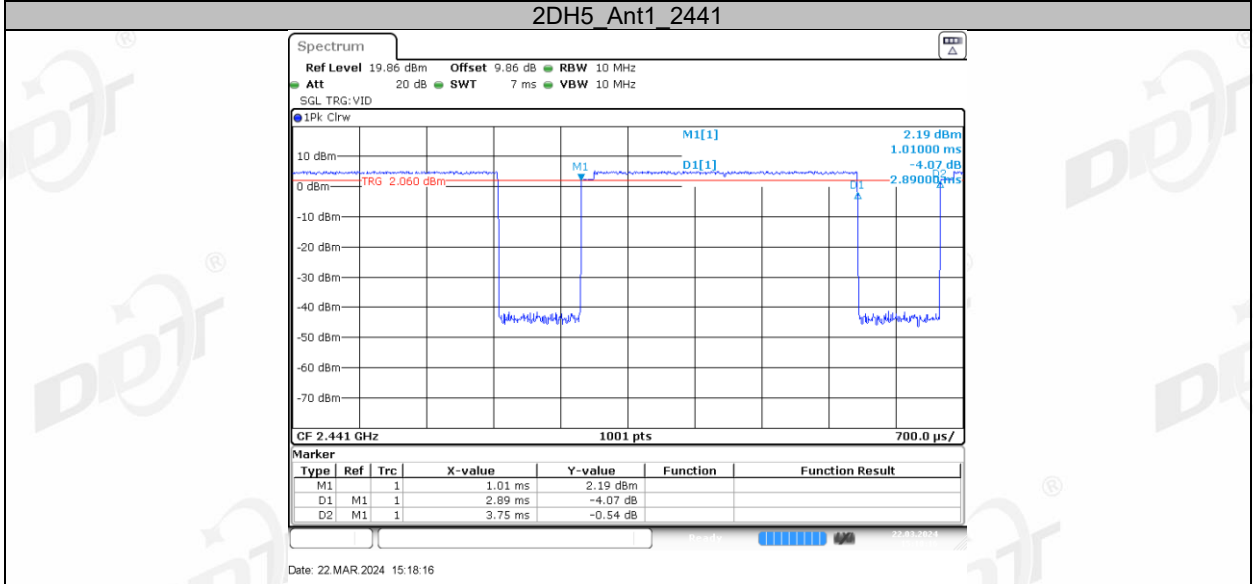
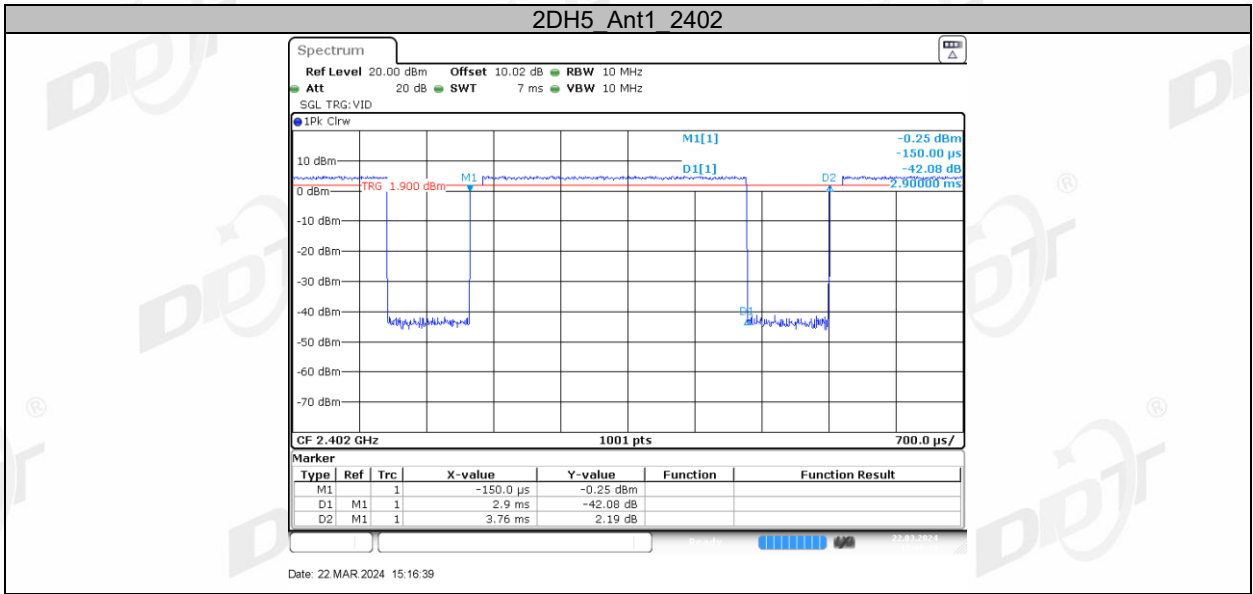
## 12.4. Test result

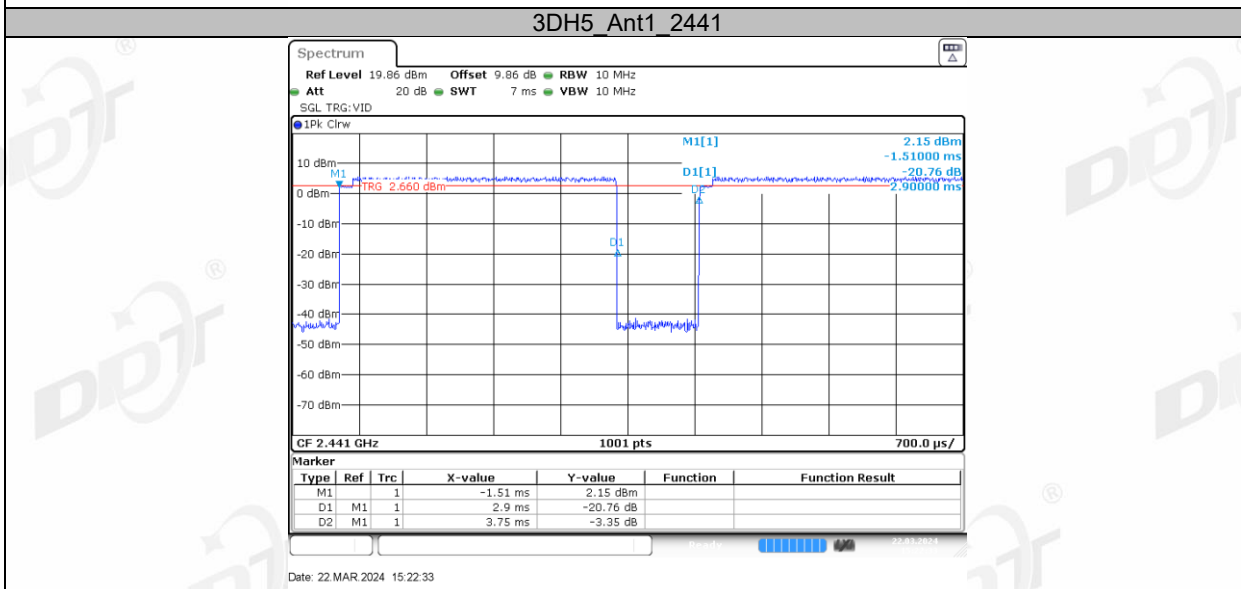
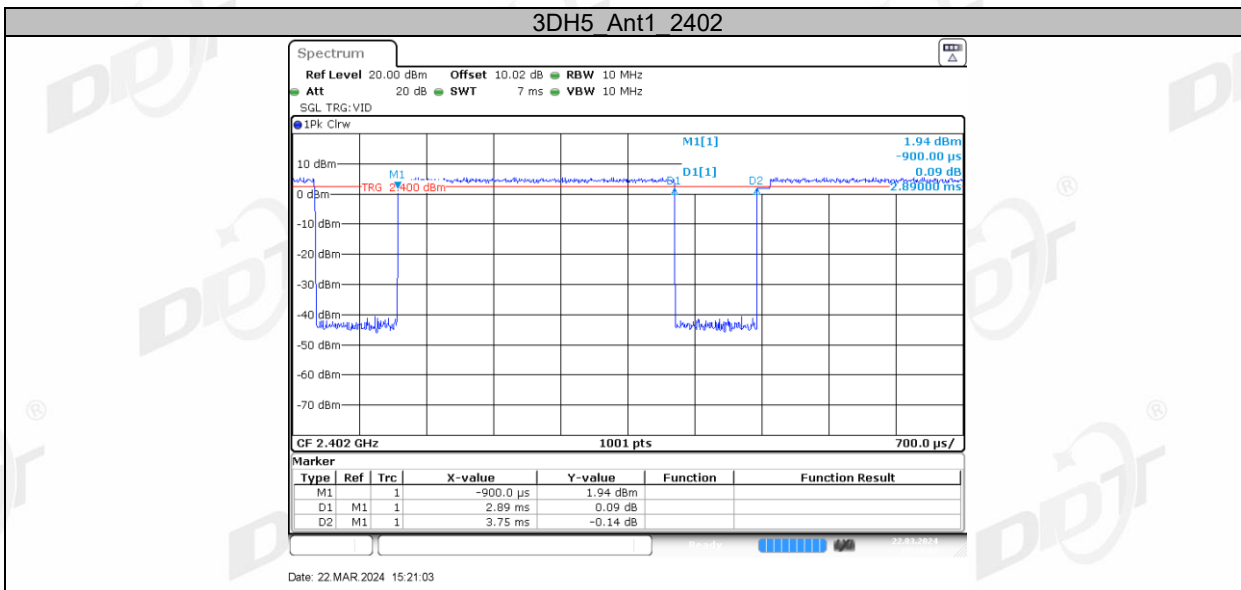
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	23.6°C, 49.0%RH	Test Date:	2024.03.22
Test Power Supply:	DC 14.4V	Sample Number:	S24022128-006

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.90	3.76	77.13	1.13
		2480	2.90	3.76	77.13	1.13
2DH5	Ant1	2402	2.90	3.76	77.13	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.90	3.75	77.33	1.12
		2480	2.89	3.75	77.07	1.13

### 12.5. Test graphs









## 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

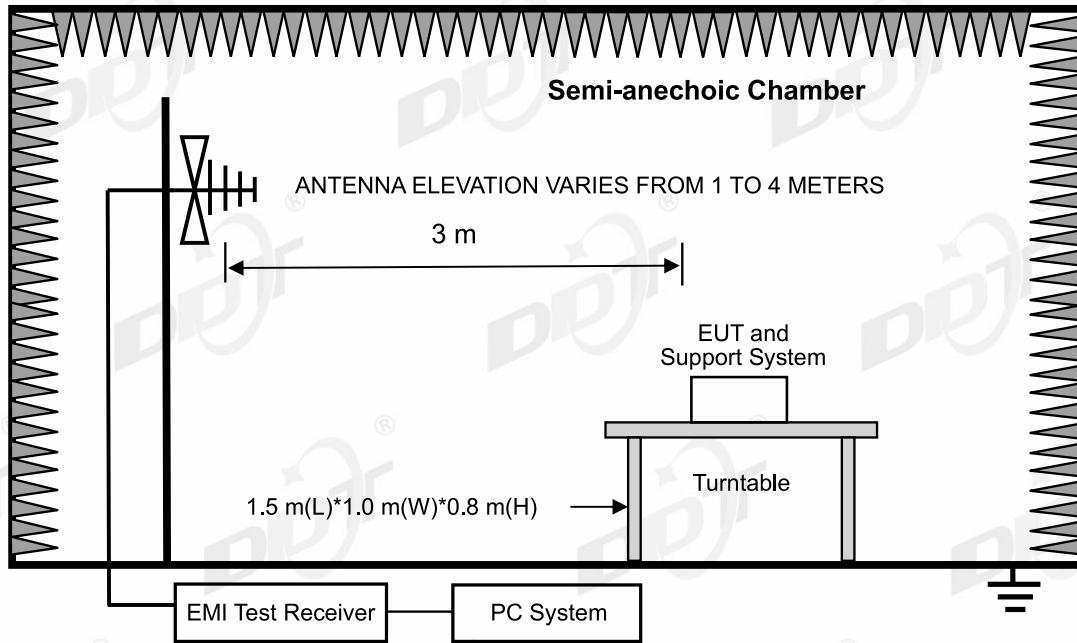
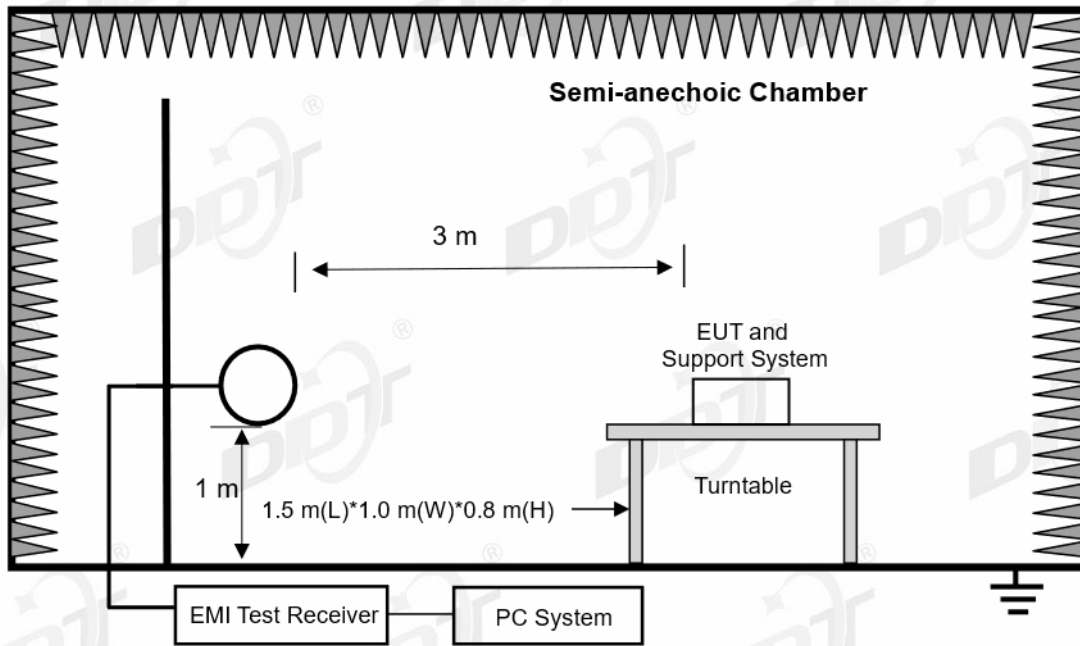
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

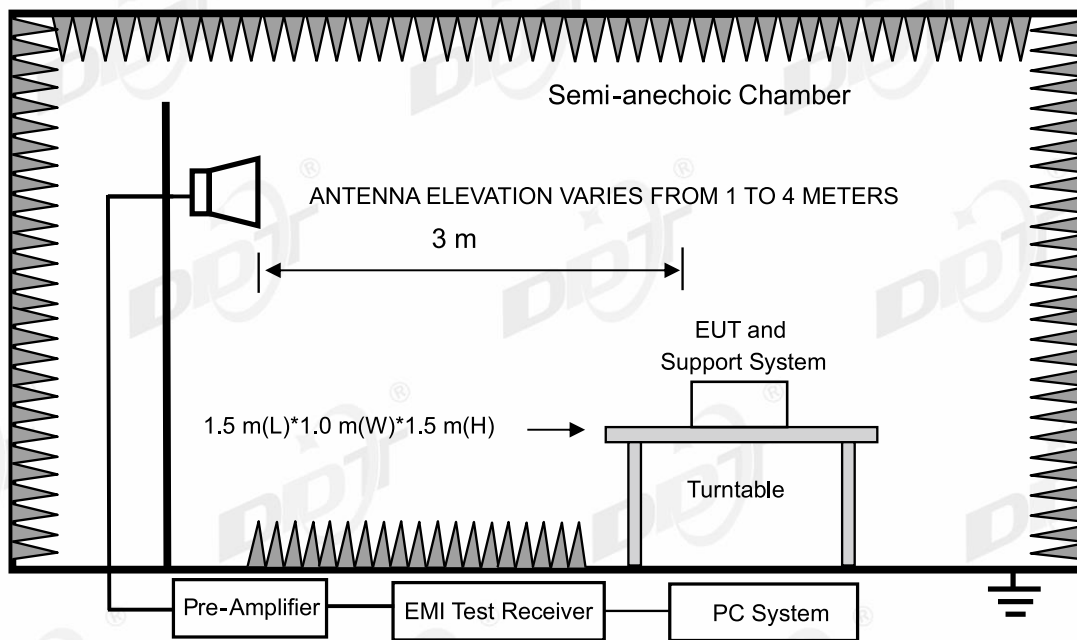
## 14. Radiated Emission

### 14.1. Test equipment

Equipment	Manufacturer	Model No.	Equipment No.	Cal Due To	Cal. Interval
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/22	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/20	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/10	2 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/25	1 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/26	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/22	1 Year
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14	1 Year
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/22	1 Year
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11	1 Year
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/20	1 Year
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	NA
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	NA
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2025/09/17	2 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/22	1 Year
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20	1 Year

### 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
10.495-0.505	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	( <sup>2</sup> )
13.36-13.41			

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

2Above 38.6

## RSS-Gen section 8.10 Restricted frequency bands\*

MHz	MHz	MHz	GHz
0.090-0.110	12.51975-12.52025	240-285	3.5-4.4
0.495-0.505	12.57675-12.57725	322-335.4	4.5-5.15
2.1735-2.1905	13.36-13.41	399.9-410	5.35-5.46
3.020-3.026	16.42-16.423	608-614	7.25-7.75
4.125-4.128	16.69475-16.69525	960-1427	8.025-8.5
4.1772&4.17775	16.80425-16.80475	1435-1626.5	9.0-9.2
4.2072&4.20775	25.5-25.67	1645.5-1646.5	9.3-9.5
5.677-5.683	37.5-38.25	1660-1710	10.6-12.7
6.215-6.218	73-74.6	1718.8-1722.2	13.25-13.4
6.26775-6.26825	74.8-75.2	2200-2300	14.47-14.5
6.31175-6.31225	108-138	2310-2390	15.35-16.2
8.291-8.294	149.9-150.05	2483.5-2500	17.7-21.4
8.362-8.366	156.52475-156.52525	2655-2900	22.01-23.12
8.37625-8.38675	156.7-156.9	3260-3267	23.6-24.0
8.41425-8.41475	162.0125-167.17	3332-3339	31.2-31.8
12.29-12.293	167.72-173.2	3345.8-3358	36.43-36.5
			Above 38.6

\* Certain frequency bands listed in table and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

## (2) FCC 15.209 Limit &amp; RSS-Gen section 8.9 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	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, and the emissions appearing within RSS-Gen section 8.10 Restricted frequency bands shall not exceed the limits shown in RSS-Gen section 8.9, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limits and RSS-Gen section 8.9 limits.

#### 14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description
Laptop	Lenovo	00425-00000-00002-AA135	NA

#### 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 C63.10:2020 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 C63.10:2020 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 C63.10:2020 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.

#### 14.6. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: 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.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK,  $\pi/4$ -DQPSK and 8DPSK, the worst case is GFSK Mode)

Note3: 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 8DPSK, Tx 2441 MHz mode.

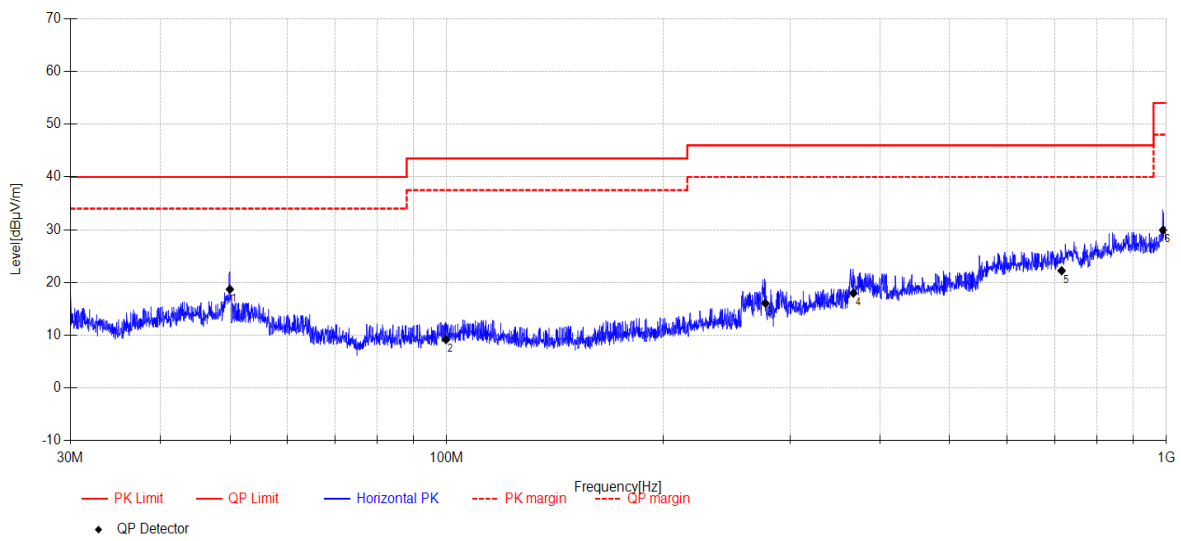
Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.



14.7. Test data

## TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2024-03-14      **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver      **Model Number:** MM55-HR  
**Test Mode:** BT TX      **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC BELOW 1G\20240314-015630\_H  
**Memo:** Sample Number:S24022128-006 Power Setting:NA



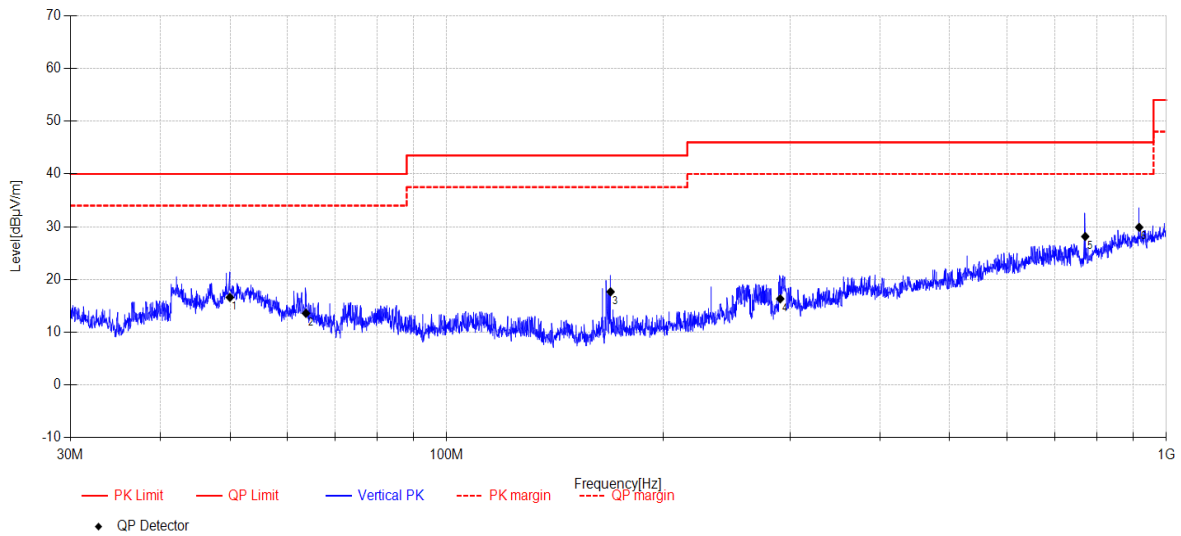
Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	49.98	31.69	12.99	4.73	-30.70	18.71	40.00	21.29	QP	Horizontal
2	99.78	23.55	11.45	5.07	-30.90	9.17	43.50	34.33	QP	Horizontal
3	277.16	27.94	12.46	6.05	-30.37	16.08	46.00	29.92	QP	Horizontal
4	367.41	26.3	15.33	6.52	-30.17	17.98	46.00	28.02	QP	Horizontal
5	715.22	25.14	19.20	7.79	-29.90	22.23	46.00	23.77	QP	Horizontal
6	989.54	27.39	22.08	8.65	-28.19	29.93	54.00	24.07	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:** 2024-03-14      **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver      **Model Number:** MM55-HR  
**Test Mode:** BT TX      **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC BELOW 1G\20240314-015723\_V  
**Memo:** Sample Number:S24022128-006 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	49.98	29.59	12.99	4.73	-30.70	16.61	40.00	23.39	QP	Vertical
2	63.75	27.1	12.33	4.77	-30.61	13.59	40.00	26.41	QP	Vertical
3	168.95	33.78	9.09	5.48	-30.69	17.66	43.50	25.84	QP	Vertical
4	290.70	27.42	13.13	6.11	-30.33	16.33	46.00	29.67	QP	Vertical
5	771.49	31.23	18.90	7.92	-29.90	28.15	46.00	17.85	QP	Vertical
6	916.73	28.96	21.38	8.40	-28.85	29.89	46.00	16.11	QP	Vertical

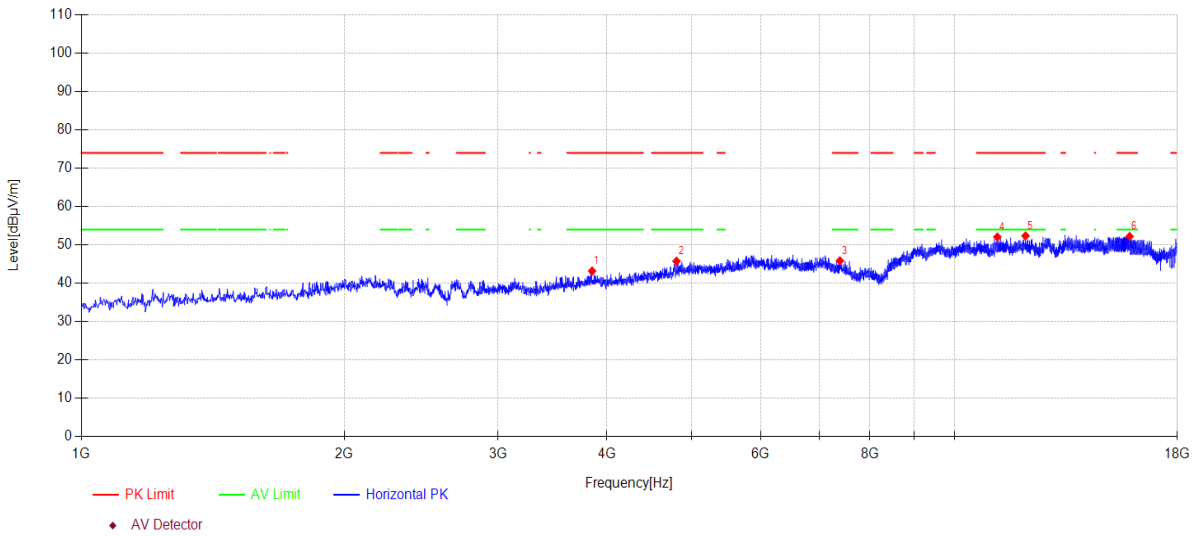
**Note:**

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:** 2024-03-13 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\1  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3845.80	46.86	30.88	5.82	-40.36	43.20	74.00	30.80	PK	Horizontal
2	4804.60	45.81	32.62	7.48	-40.15	45.76	74.00	28.24	PK	Horizontal
3	7392.00	43.18	36.72	7.64	-41.68	45.86	74.00	28.14	PK	Horizontal
4	11196.60	42.22	39.20	9.82	-39.18	52.06	74.00	21.94	PK	Horizontal
5	12061.90	42.14	39.26	10.54	-39.58	52.36	74.00	21.64	PK	Horizontal
6	15871.60	38.03	38.16	15.30	-39.28	52.21	74.00	21.79	PK	Horizontal

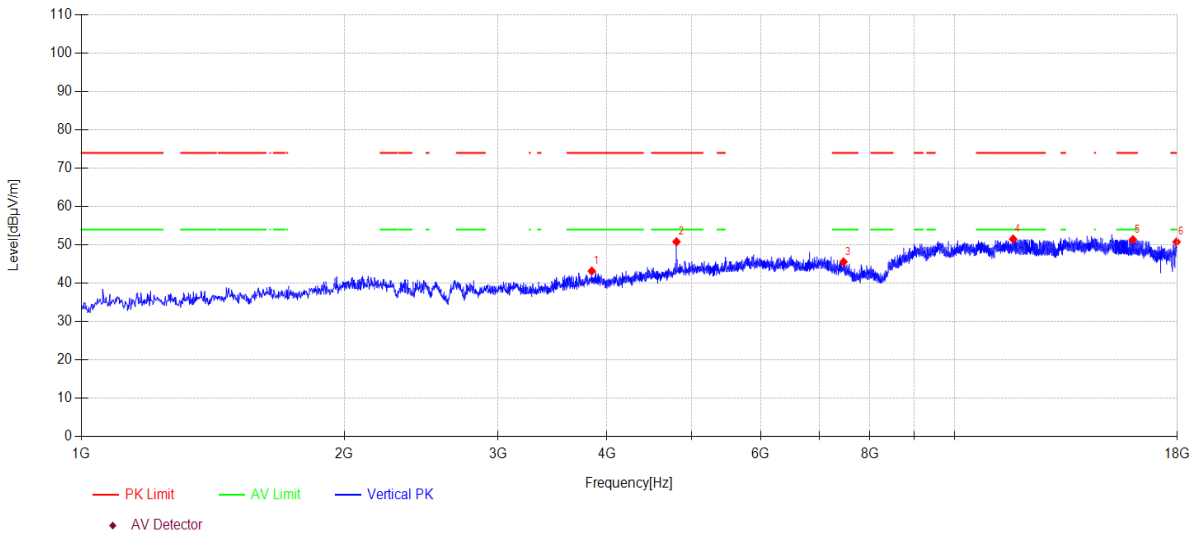
**Note:**

- 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:** 2024-03-13      **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver      **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2402MHz      **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\2  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3842.40	46.84	30.87	5.82	-40.35	43.18	74.00	30.82	PK	Vertical
2	4804.60	50.88	32.62	7.48	-40.15	50.83	74.00	23.17	PK	Vertical
3	7463.40	43.23	36.57	7.64	-41.86	45.58	74.00	28.42	PK	Vertical
4	11672.60	41.69	39.00	10.25	-39.41	51.53	74.00	22.47	PK	Vertical
5	16007.60	36.89	37.99	15.85	-39.37	51.36	74.00	22.64	PK	Vertical
6	17964.30	37.80	42.22	13.09	-42.32	50.79	74.00	23.21	PK	Vertical

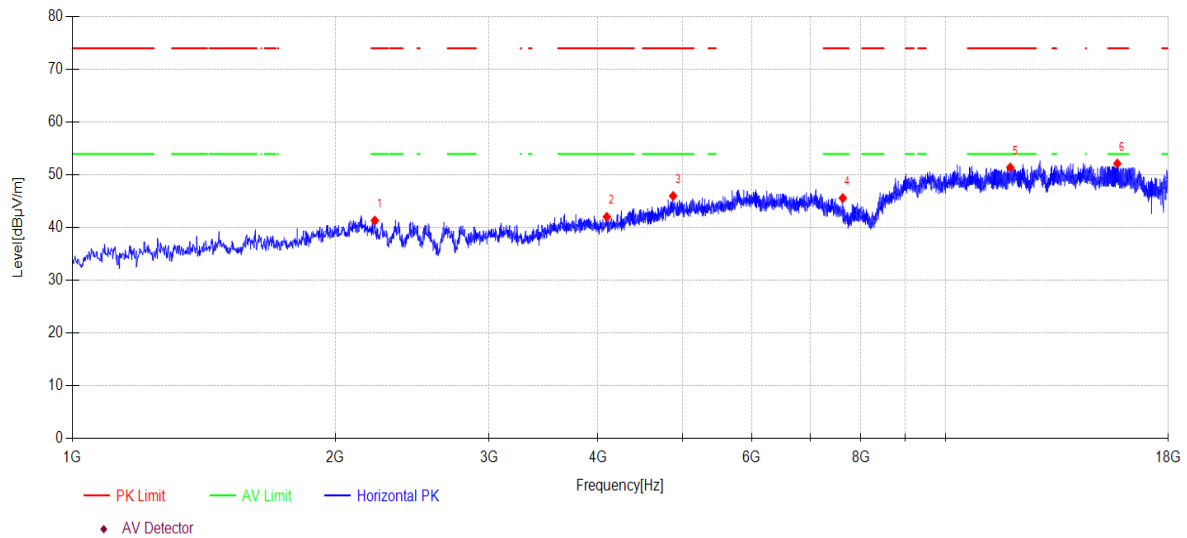
**Note:**

- 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:** 2024-03-13 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2441MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\3  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

### Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2220.600	45.44	27.59	5.97	-37.63	41.37	74.00	32.63	PK	Horizontal
2	4094.000	45.35	31.09	6.04	-40.42	42.06	74.00	31.94	PK	Horizontal
3	4876.000	45.15	33.38	7.62	-40.13	46.02	74.00	27.98	PK	Horizontal
4	7628.300	43.68	36.56	7.65	-42.27	45.62	74.00	28.38	PK	Horizontal
5	11864.700	41.61	38.90	10.42	-39.50	51.43	74.00	22.57	PK	Horizontal
6	15733.900	38.27	38.43	14.67	-39.20	52.17	74.00	21.83	PK	Horizontal

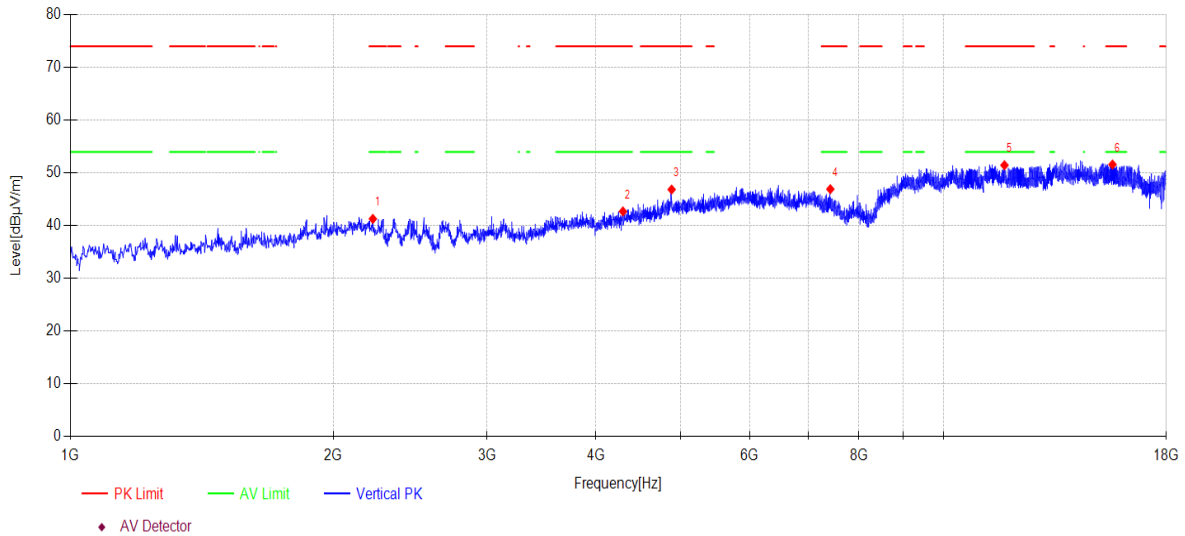
#### Note:

- 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:** 2024-03-13 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2441MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\4  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2220.600	45.37	27.59	5.97	-37.63	41.30	74.00	32.70	PK	Vertical
2	4294.600	45.02	31.58	6.45	-40.34	42.71	74.00	31.29	PK	Vertical
3	4882.800	46.08	33.28	7.63	-40.12	46.87	74.00	27.13	PK	Vertical
4	7420.900	44.39	36.66	7.64	-41.75	46.94	74.00	27.06	PK	Vertical
5	11745.700	41.65	38.95	10.31	-39.44	51.47	74.00	22.53	PK	Vertical
6	15616.600	38.01	38.58	14.14	-39.13	51.60	74.00	22.40	PK	Vertical

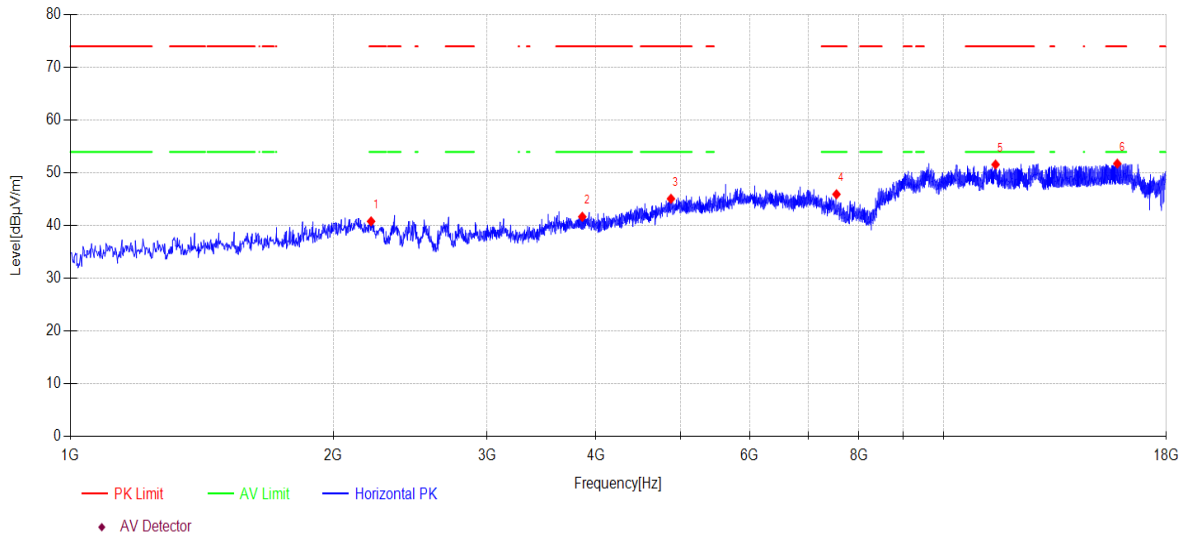
**Note:**

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:** 2024-03-13      **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver      **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2480MHz      **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\5  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2210.400	44.76	27.70	5.98	-37.61	40.83	74.00	33.17	PK	Horizontal
2	3857.700	45.29	30.95	5.82	-40.36	41.70	74.00	32.30	PK	Horizontal
3	4874.300	44.21	33.41	7.62	-40.13	45.11	74.00	28.89	PK	Horizontal
4	7541.600	43.95	36.42	7.65	-42.05	45.97	74.00	28.03	PK	Horizontal
5	11472.000	41.61	39.23	10.07	-39.31	51.60	74.00	22.40	PK	Horizontal
6	15817.200	37.71	38.27	15.05	-39.25	51.78	74.00	22.22	PK	Horizontal

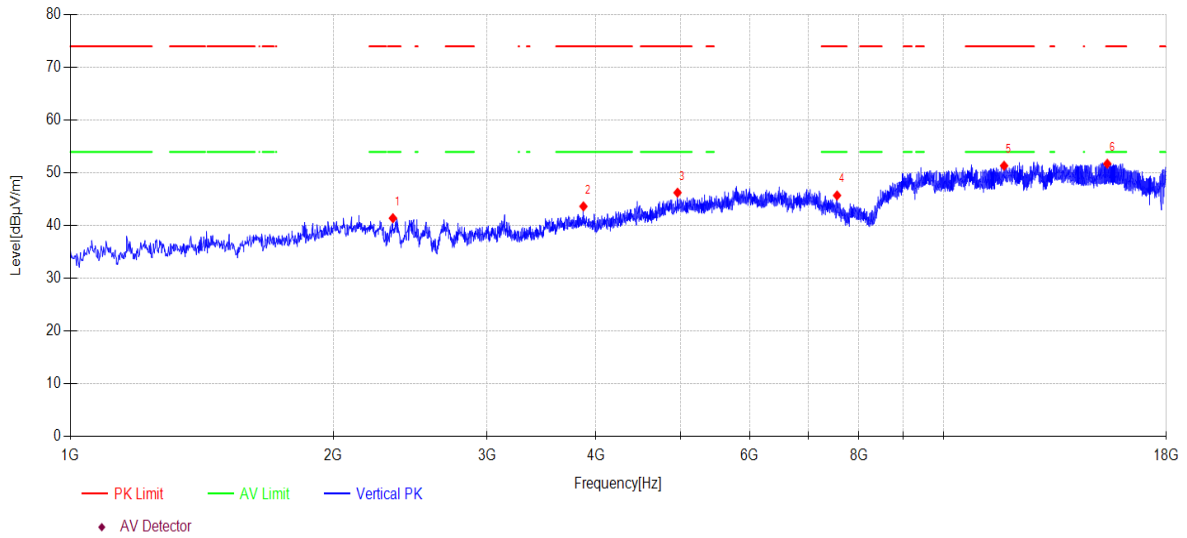
**Note:**

- 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:** 2024-03-13 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\6  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2341.300	46.44	27.05	5.92	-37.98	41.43	74.00	32.57	PK	Vertical
2	3869.600	47.20	31.02	5.82	-40.37	43.67	74.00	30.33	PK	Vertical
3	4959.300	45.46	33.12	7.79	-40.10	46.27	74.00	27.73	PK	Vertical
4	7553.500	43.76	36.41	7.65	-42.08	45.74	74.00	28.26	PK	Vertical
5	11733.800	41.53	38.97	10.30	-39.43	51.37	74.00	22.63	PK	Vertical
6	15404.100	38.58	38.99	13.18	-39.00	51.75	74.00	22.25	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.

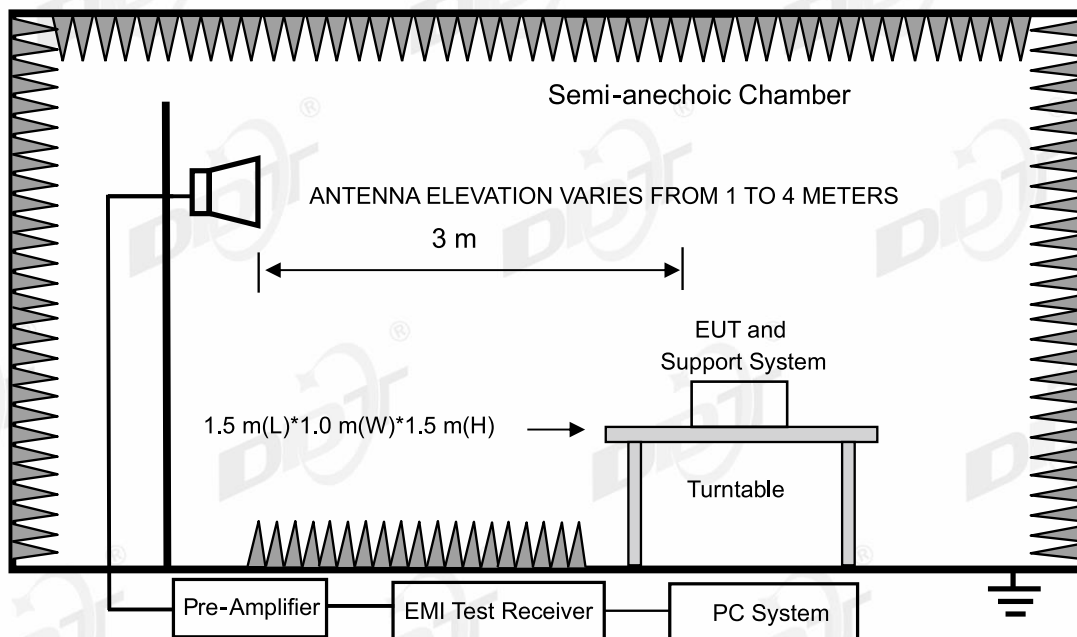


## 15. Band Edge Compliance

### 15.1. Test equipment

Equipment	Manufacturer	Model No.	Equipment No.	Cal Due To	Cal. Interval
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11	1 Year
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/22	1 Year
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/22	1 Year
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/22	1 Year
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/	NA
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/	NA
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/20	1 Year
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14	1 Year
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/22	1 Year
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2025/09/17	2 Year
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/26	1 Year
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14	1 Year
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20	1 Year
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14	1 Year
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14	1 Year
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/10	2 Year
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20	1 Year
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/25	1 Year
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/20	1 Year

**15.2. Block diagram of test setup**



**15.3. Limits**

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

**15.4. Assistant equipment used for test**

Assistant equipment	Manufacturer	Model number	Description
Laptop	Lenovo	00425-00000-00002-AA135	NA

**15.5. Test procedure**

Same with Radiated Emission except change investigated frequency range.

Remark: All restriction band have been tested, and only the worst case is shown in report.

**15.6. Test result**

PASS. (See below detailed test result)

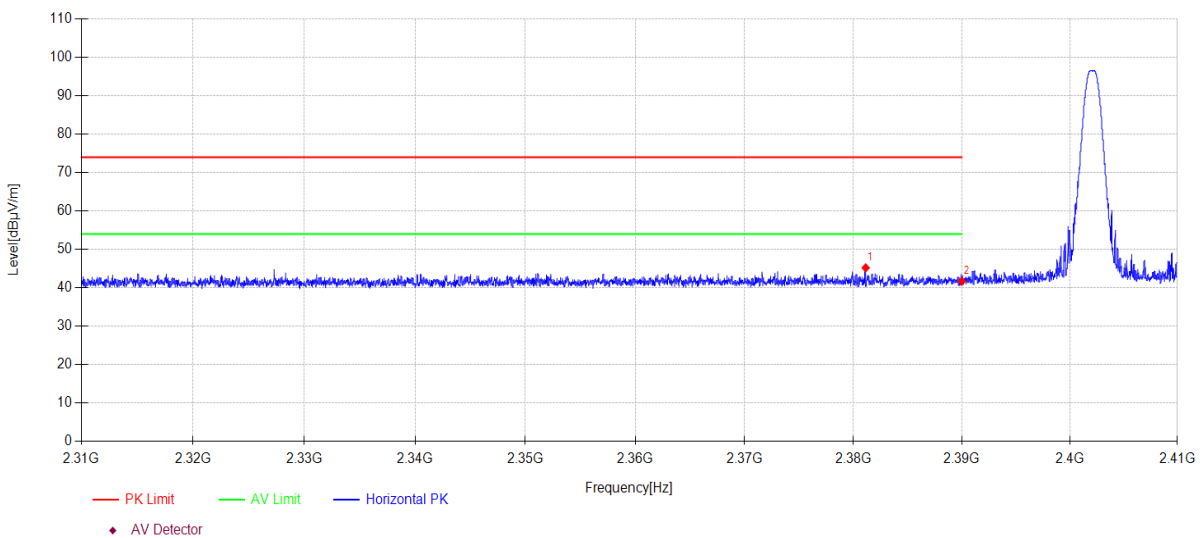
Remark: hopping on and hopping off mode all have been test, hopping off mode is worse and reported only. Scan with all mode, the worst case is recorded in this report.

## 15.7. Test data

**R-4-E-009 Radiated Emission Test Result**

**Test Date:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\7  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2381.13	14.13	27.22	3.86	0.00	45.21	74.00	28.79	PK	Horizontal
2	2390.00	10.58	27.26	3.87	0.00	41.71	74.00	32.29	PK	Horizontal

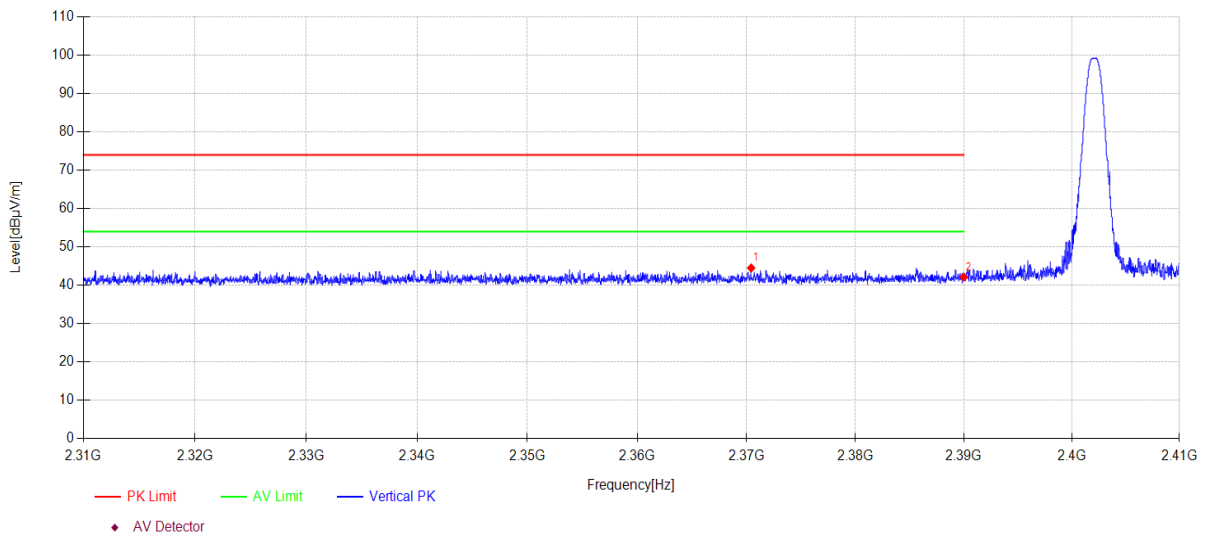
## Note:

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\8  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

### Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2370.43	13.48	27.18	3.85	0.00	44.51	74.00	29.49	PK	Vertical
2	2390.00	11.02	27.26	3.87	0.00	42.15	74.00	31.85	PK	Vertical

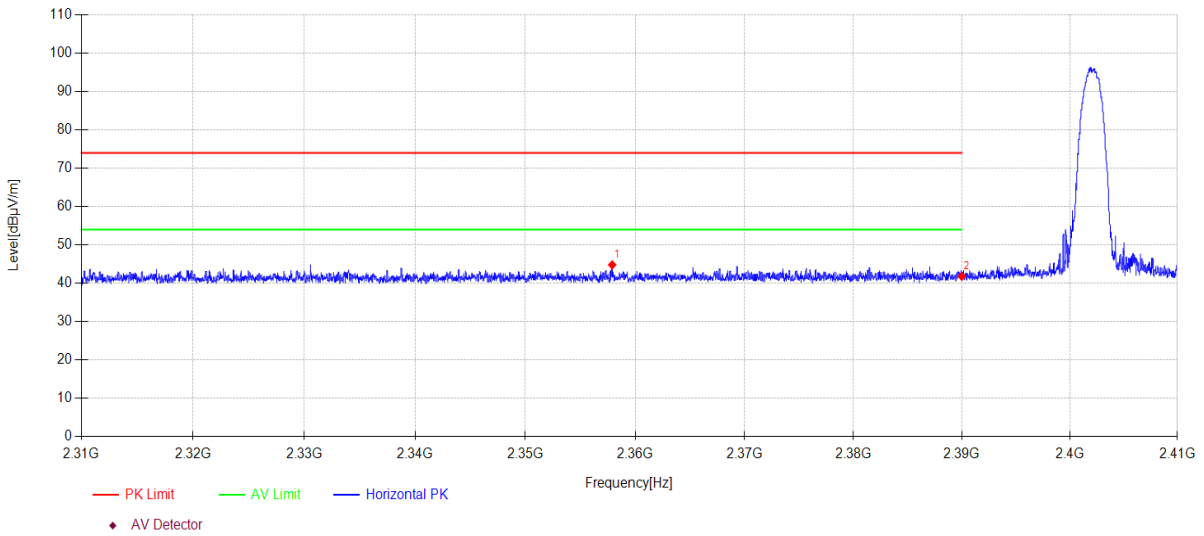
#### Note:

- 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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 2DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\9  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2357.91	13.83	27.13	3.84	0.00	44.80	74.00	29.20	PK	Horizontal
2	2390.00	10.66	27.26	3.87	0.00	41.79	74.00	32.21	PK	Horizontal

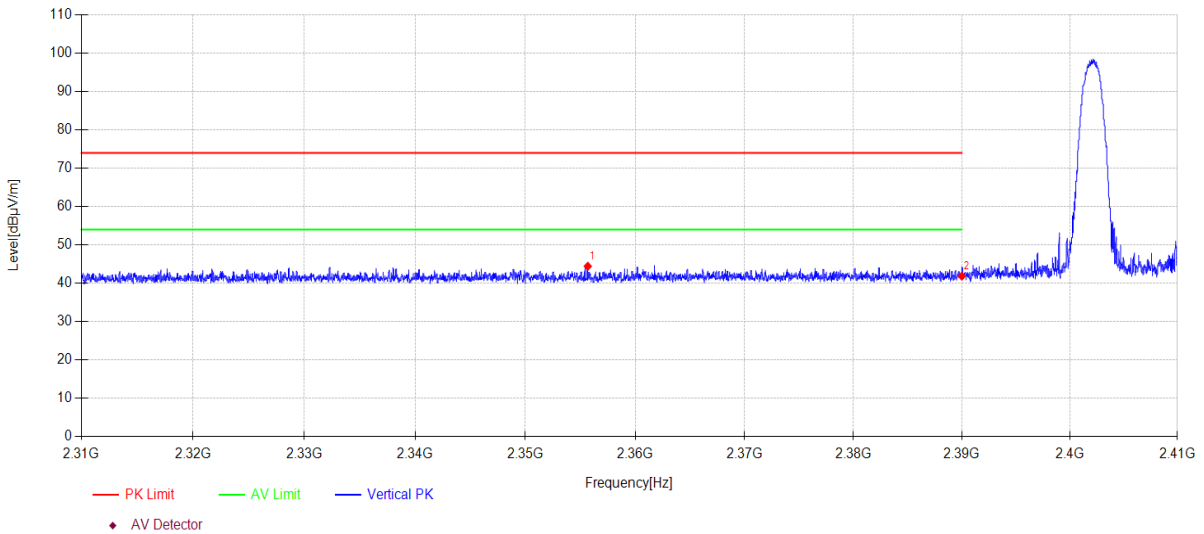
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 2DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\10  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

### Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2355.68	13.48	27.12	3.84	0.00	44.44	74.00	29.56	PK	Vertical
2	2390.00	10.74	27.26	3.87	0.00	41.87	74.00	32.13	PK	Vertical

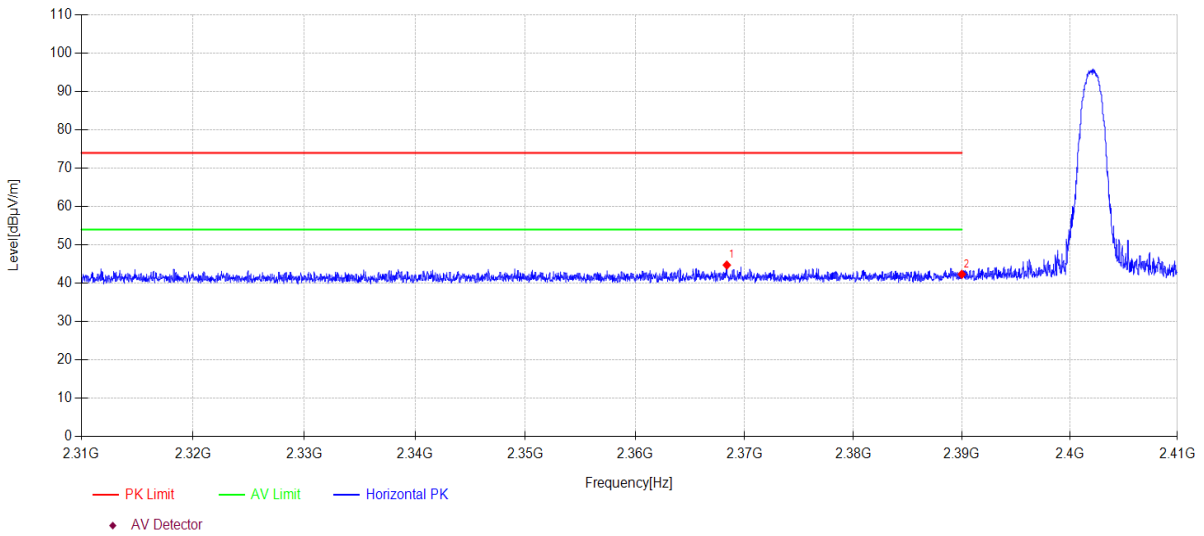
### Note:

- 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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 3DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\11  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2368.38	13.73	27.17	3.85	0.00	44.75	74.00	29.25	PK	Horizontal
2	2390.00	11.21	27.26	3.87	0.00	42.34	74.00	31.66	PK	Horizontal

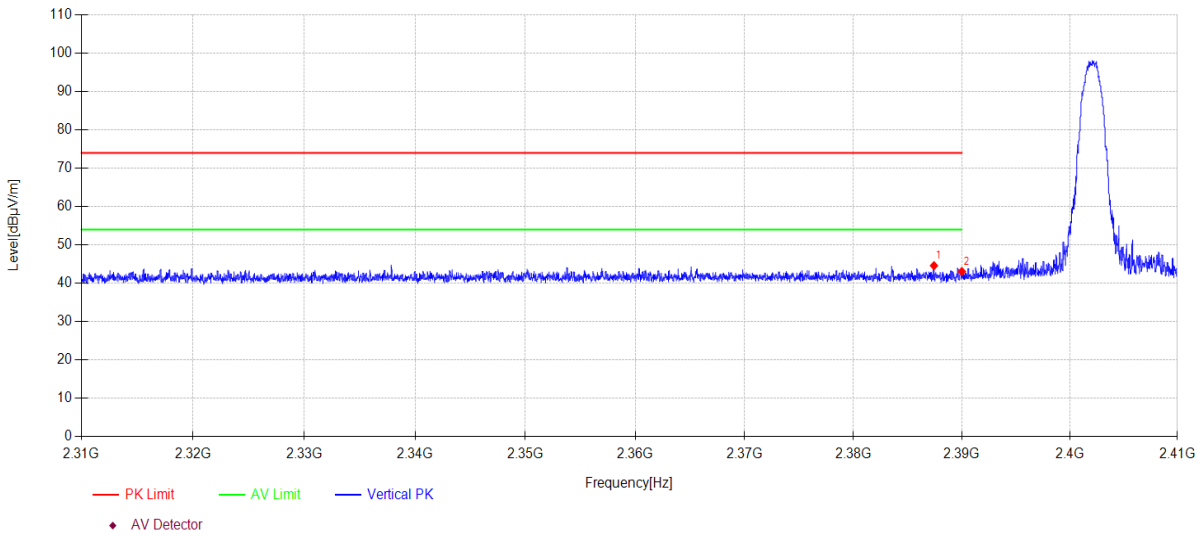
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 3DH5 TX 2402MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\12  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2387.43	13.49	27.25	3.86	0.00	44.60	74.00	29.40	PK	Vertical
2	2390.00	11.95	27.26	3.87	0.00	43.08	74.00	30.92	PK	Vertical

**Note:**

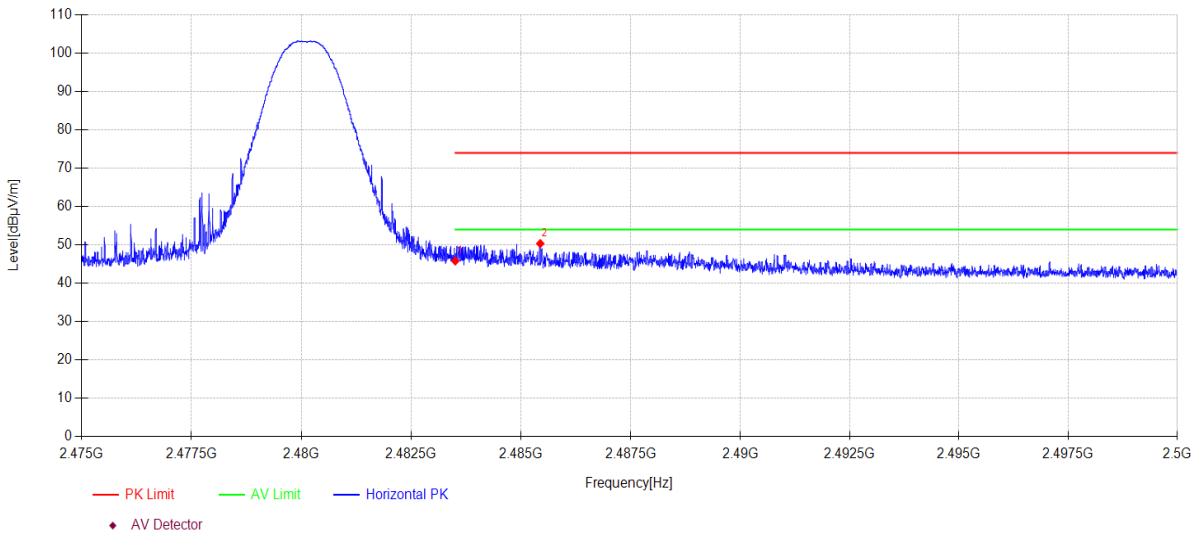
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.



# TR-4-E-009 Radiated Emission Test Result

**Test Date:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\13  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	14.35	27.53	3.94	0.00	45.82	74.00	28.18	PK	Horizontal
2	2485.44	18.86	27.54	3.94	0.00	50.34	74.00	23.66	PK	Horizontal

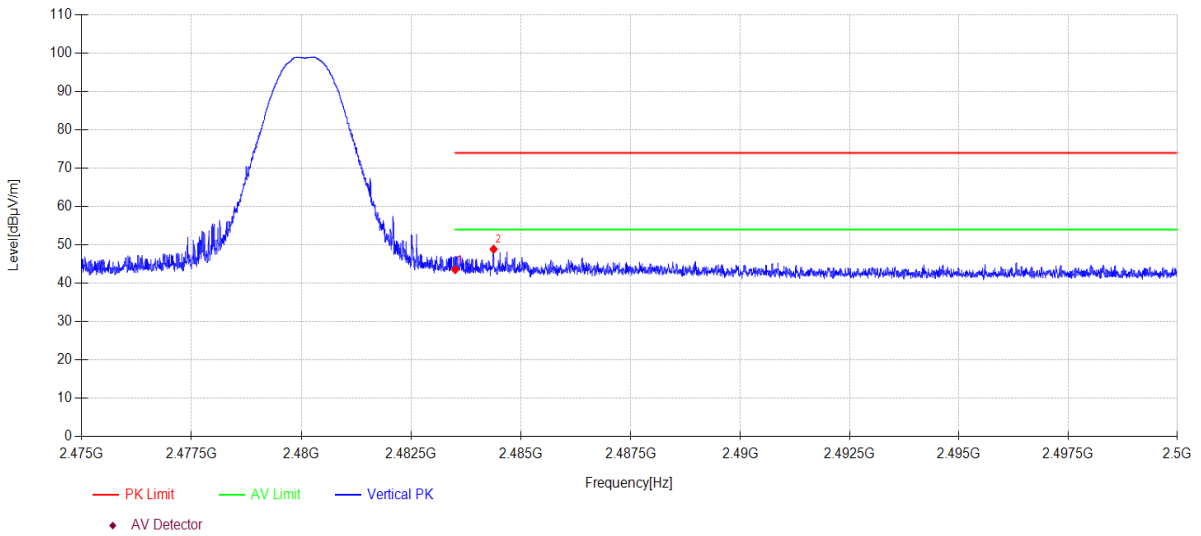
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\14  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	12.08	27.53	3.94	0.00	43.55	74.00	30.45	PK	Vertical
2	2484.38	17.42	27.54	3.94	0.00	48.90	74.00	25.10	PK	Vertical

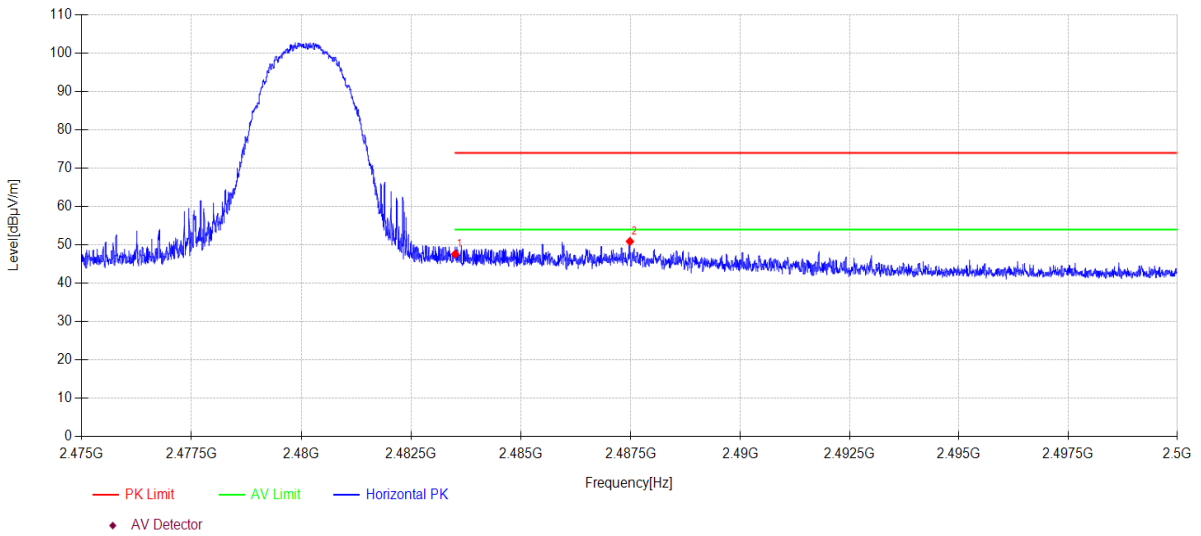
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 2DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\15  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	16.14	27.53	3.94	0.00	47.61	74.00	26.39	PK	Horizontal
2	2487.48	19.42	27.55	3.94	0.00	50.91	74.00	23.09	PK	Horizontal

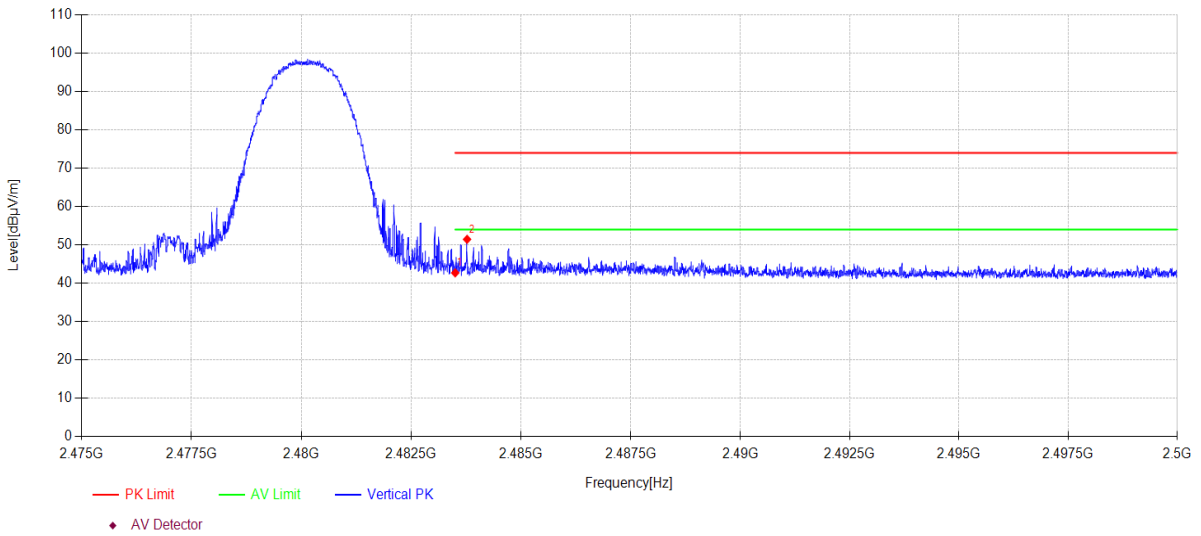
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 2DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\16  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	11.25	27.53	3.94	0.00	42.72	74.00	31.28	PK	Vertical
2	2483.77	19.98	27.54	3.94	0.00	51.46	74.00	22.54	PK	Vertical

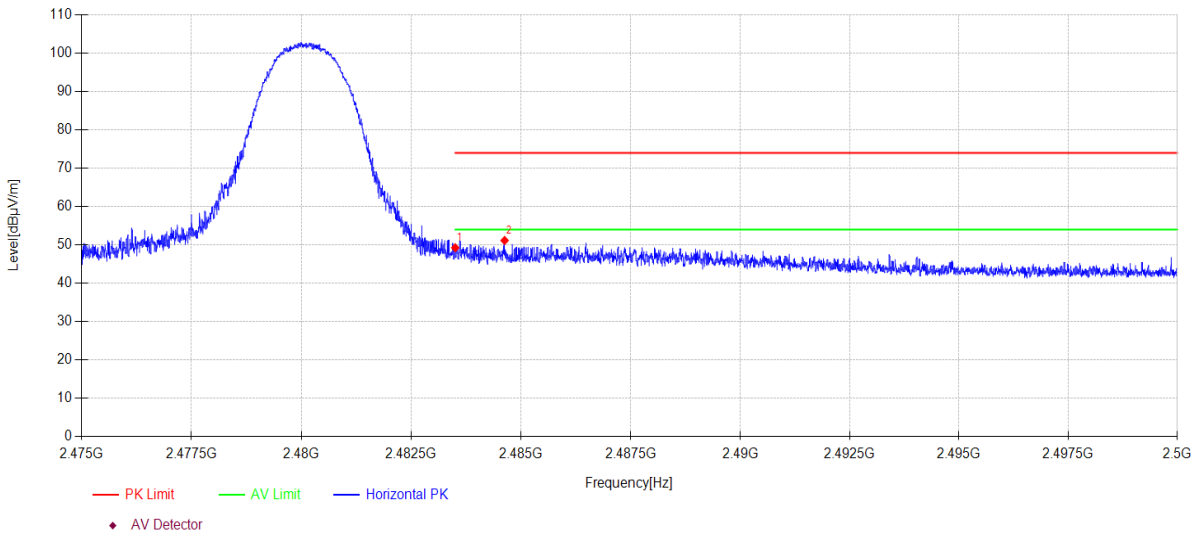
**Note:**

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:** 2024-03-14      **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver      **Model Number:** MM55-HR  
**Test Mode:** 3DH5 TX 2480MHz      **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8%      **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\17  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	17.79	27.53	3.94	0.00	49.26	74.00	24.74	PK	Horizontal
2	2484.63	19.68	27.54	3.94	0.00	51.16	74.00	22.84	PK	Horizontal

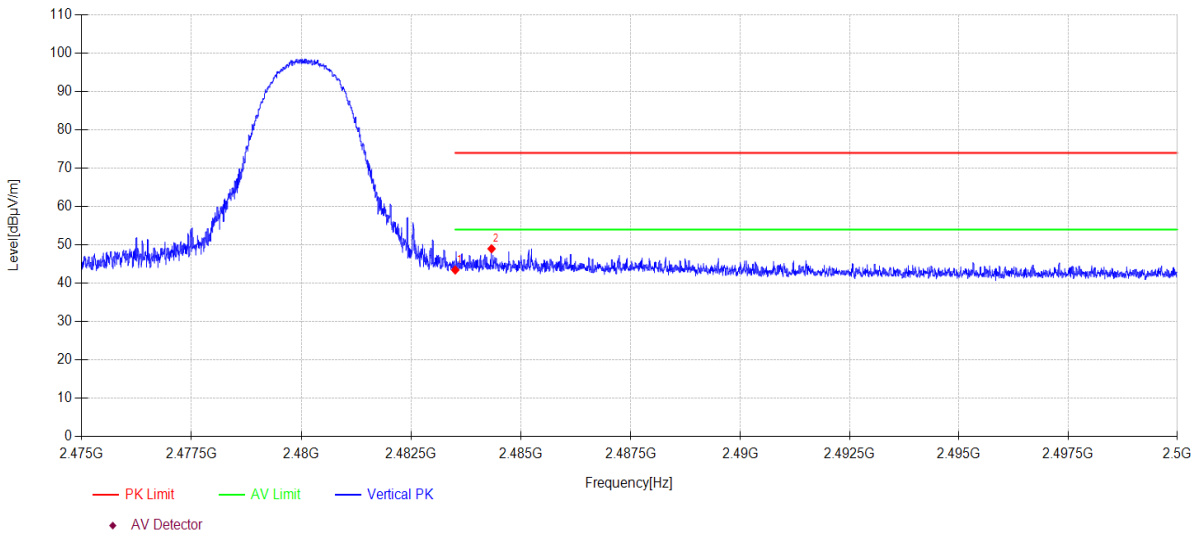
**Note:**

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:** 2024-03-14 **Tested By:** Junchang Du  
**EUT:** MediaMaster Source Unit Hidden Receiver **Model Number:** MM55-HR  
**Test Mode:** 3DH5 TX 2480MHz **Power Supply:** DC 14.4V  
**Condition:** Temp:22.8°C;Humi:57.8% **Test Site:** DDT 3# Chamber  
**File Path:** d:\ts\2024 report data\Q24022128-1E MM55-HR\FCC ABOVE 1G\18  
**Memo:** Sample Number:S24022128-006 Power Setting:NA

## Test Graph



Data List										
NO.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2483.50	12.00	27.53	3.94	0.00	43.47	74.00	30.53	PK	Vertical
2	2484.33	17.52	27.54	3.94	0.00	49.00	74.00	25.00	PK	Vertical

**Note:**

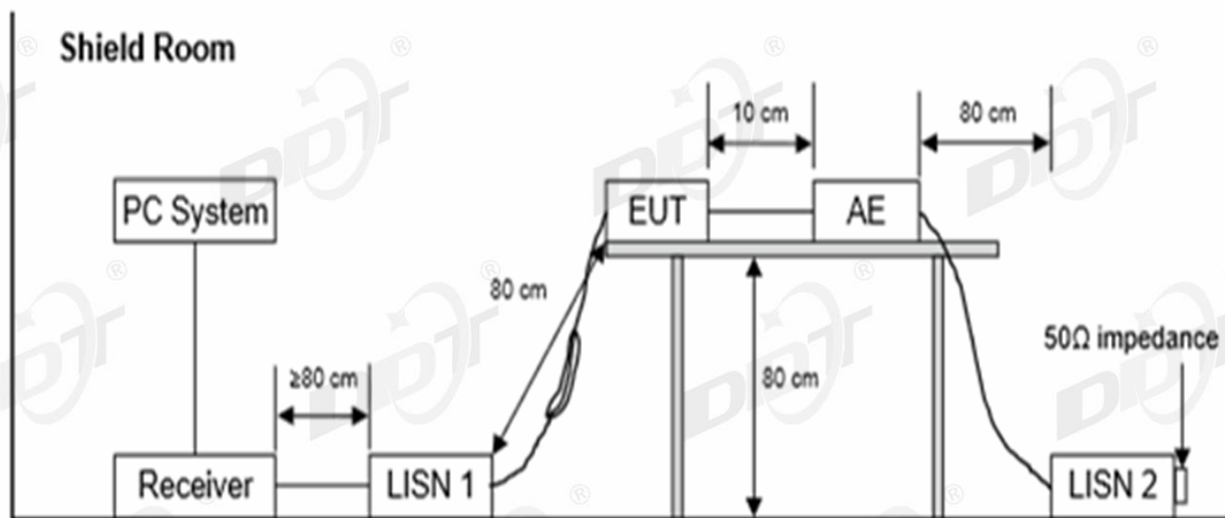
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

## 16. Power Line Conducted Emissions

### 16.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
/	/	/	/	/

### 16.2. Block diagram of test setup



### 16.3. Limits

Frequency	Quasi-Peak Level dB(mV)	Average Level dB(mV)
150 kHz~500 kHz	66 ~ 56*	56 ~ 46*
500 kHz~5 MHz	56	46
5 MHz~30 MHz	60	50

Note 1: \* Decreasing linearly with logarithm of frequency.

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

### 16.4. Assistant equipment used for test

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

### 16.5. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

### 16.6. Test result

Not applicable. The EUT is DC powered.



## 18. Photos of the EUT

Please refer to DDT-Q24022128-2E appendix I.

-----End Report-----