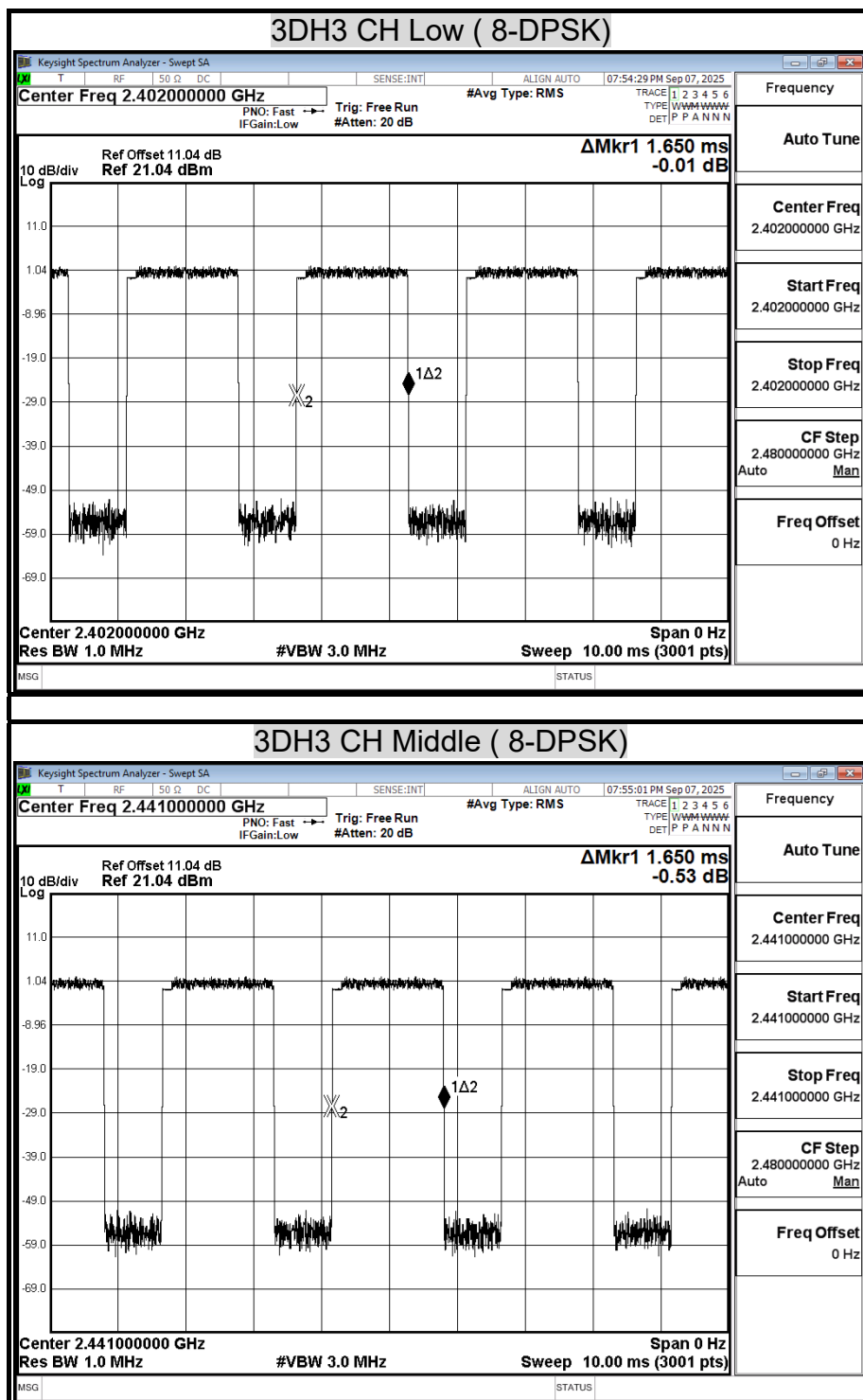
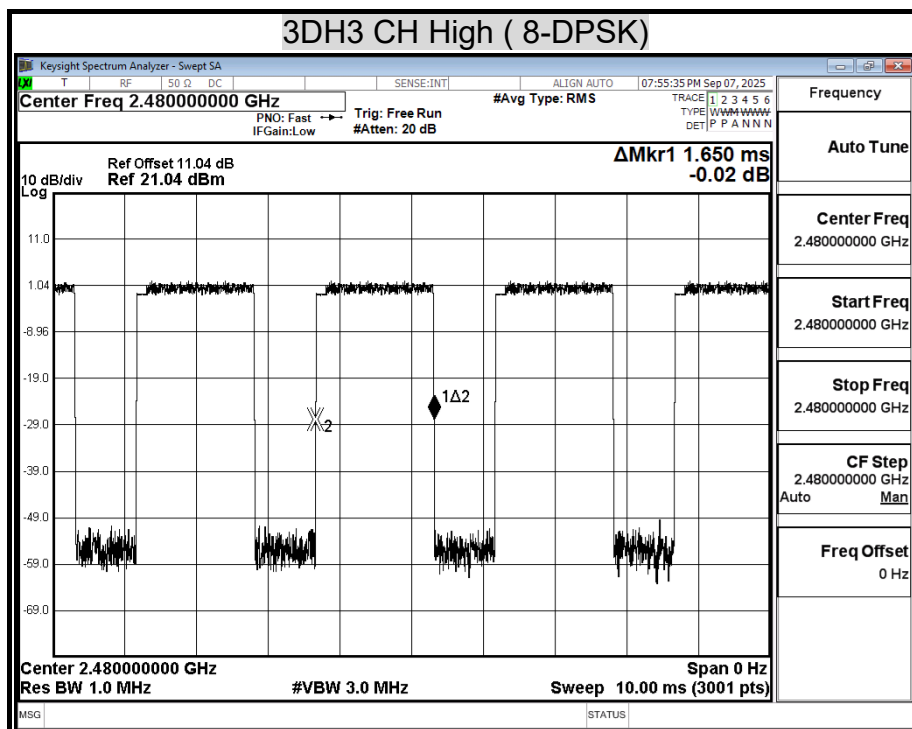
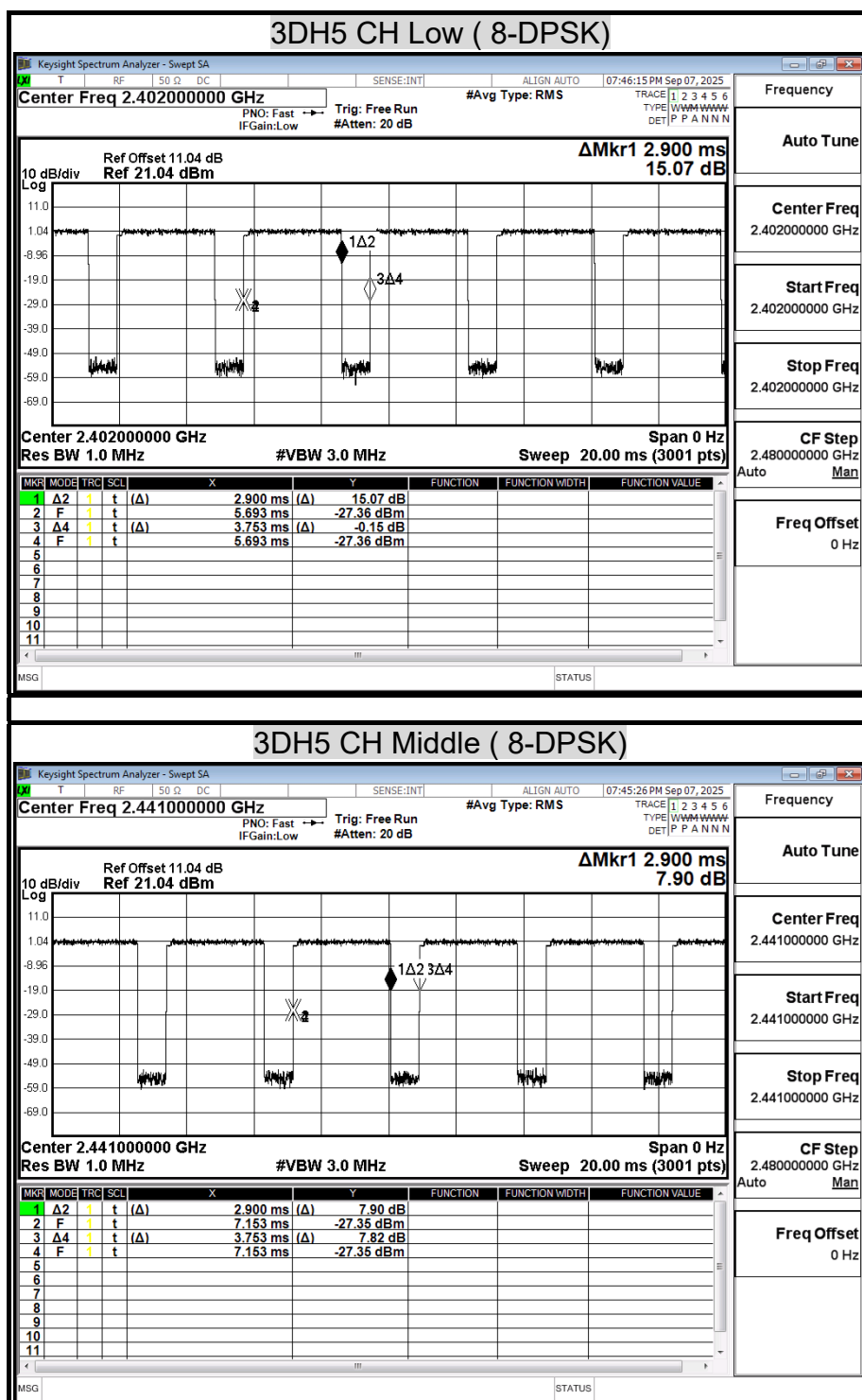
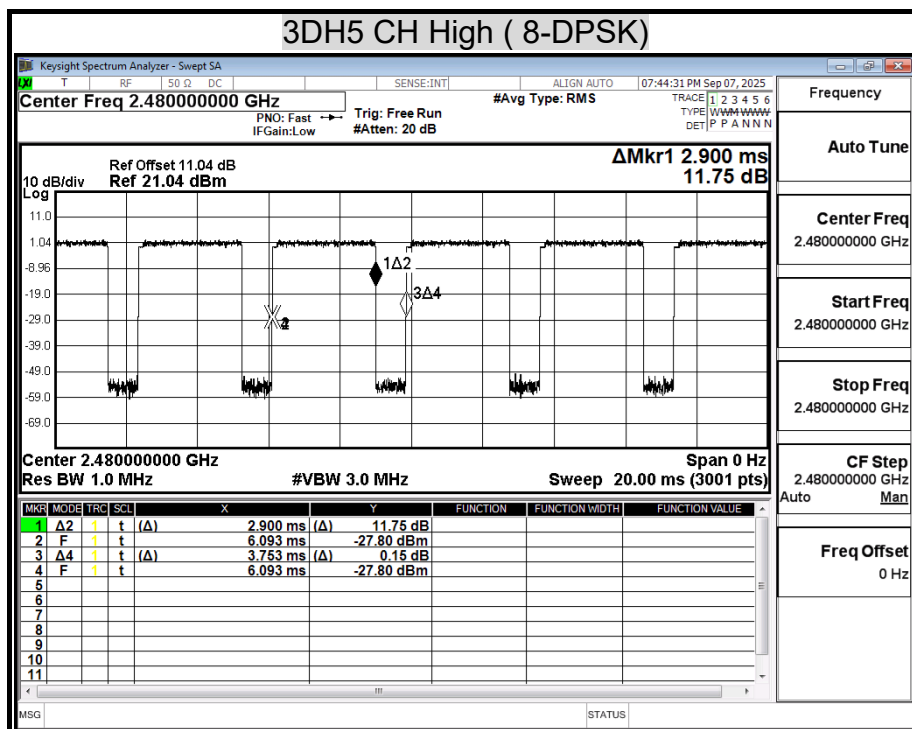










8.6 DUTY CYCLE

LIMIT

Nil (No dedicated limit specified in the Rules)

TEST SETUP



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST RESULTS

No non-compliance noted.

TEST DATA

Model Name	DP-500BT	Test By	Ted Huang
Temp & Humidity	26.5°C, 44%	Test Date	2025/09/07

Modulation Type: GFSK / DH5

	us	Times	Ton	Total Ton time(ms)
Ton1	2900.000	1	2900	
Ton2		0	0	
Ton3			0	2.900
Tp				3.753

Ton	2.900
Tp(Ton+Toff)	3.753
Duty Cycle	0.773
$10 * \log (1/x) =$	1.120

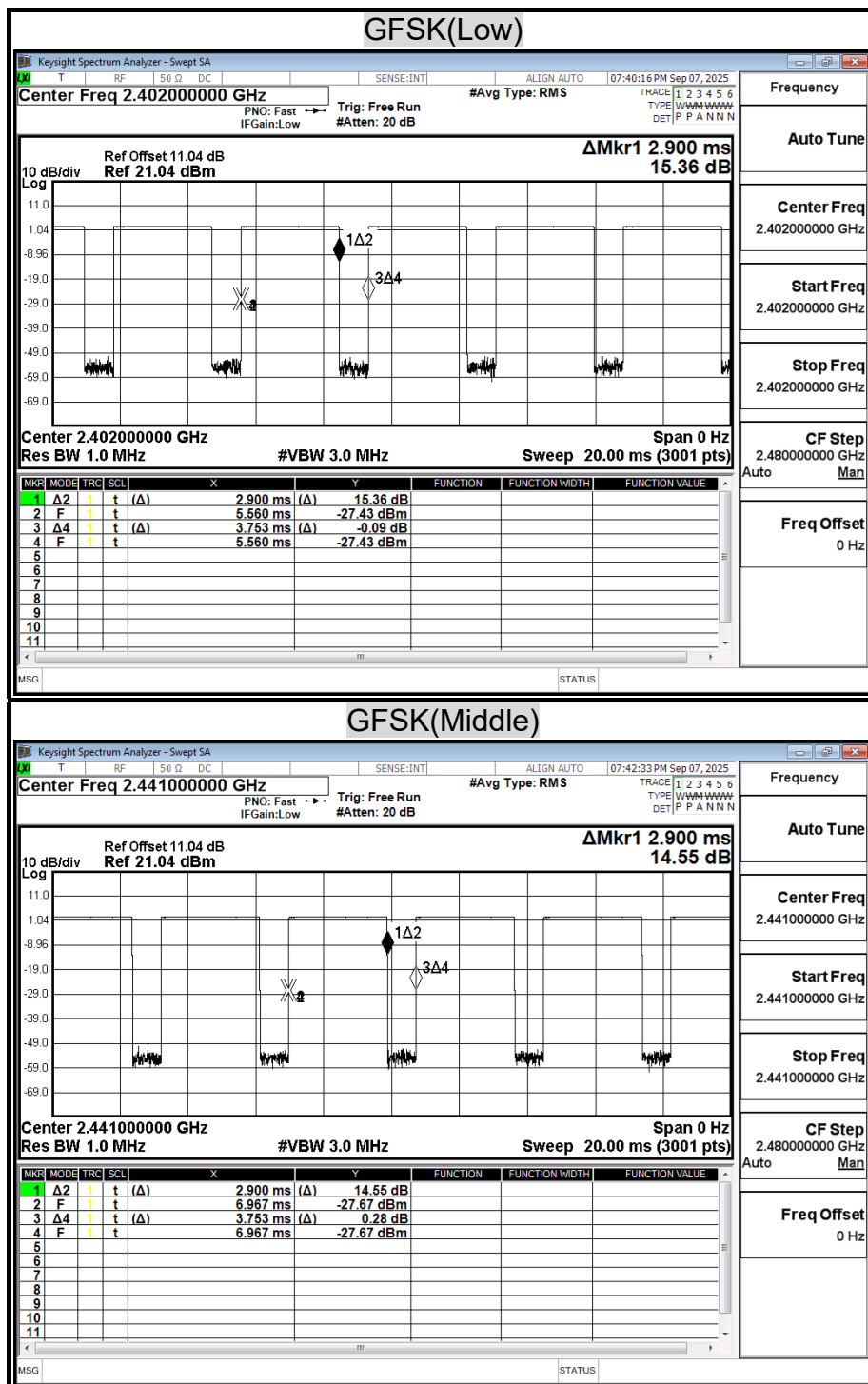
Modulation Type: 8-DPSK / 3-DH5

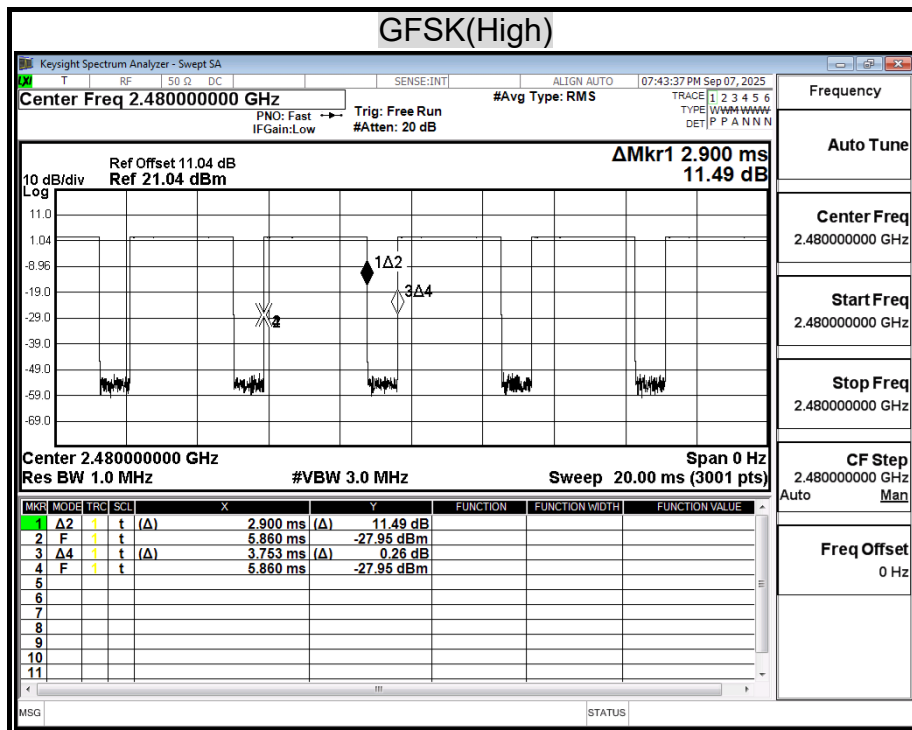
	us	Times	Ton	Total Ton time(ms)
Ton1	2900.000	1	2900	
Ton2		0	0	
Ton3			0	2.900
Tp				3.753

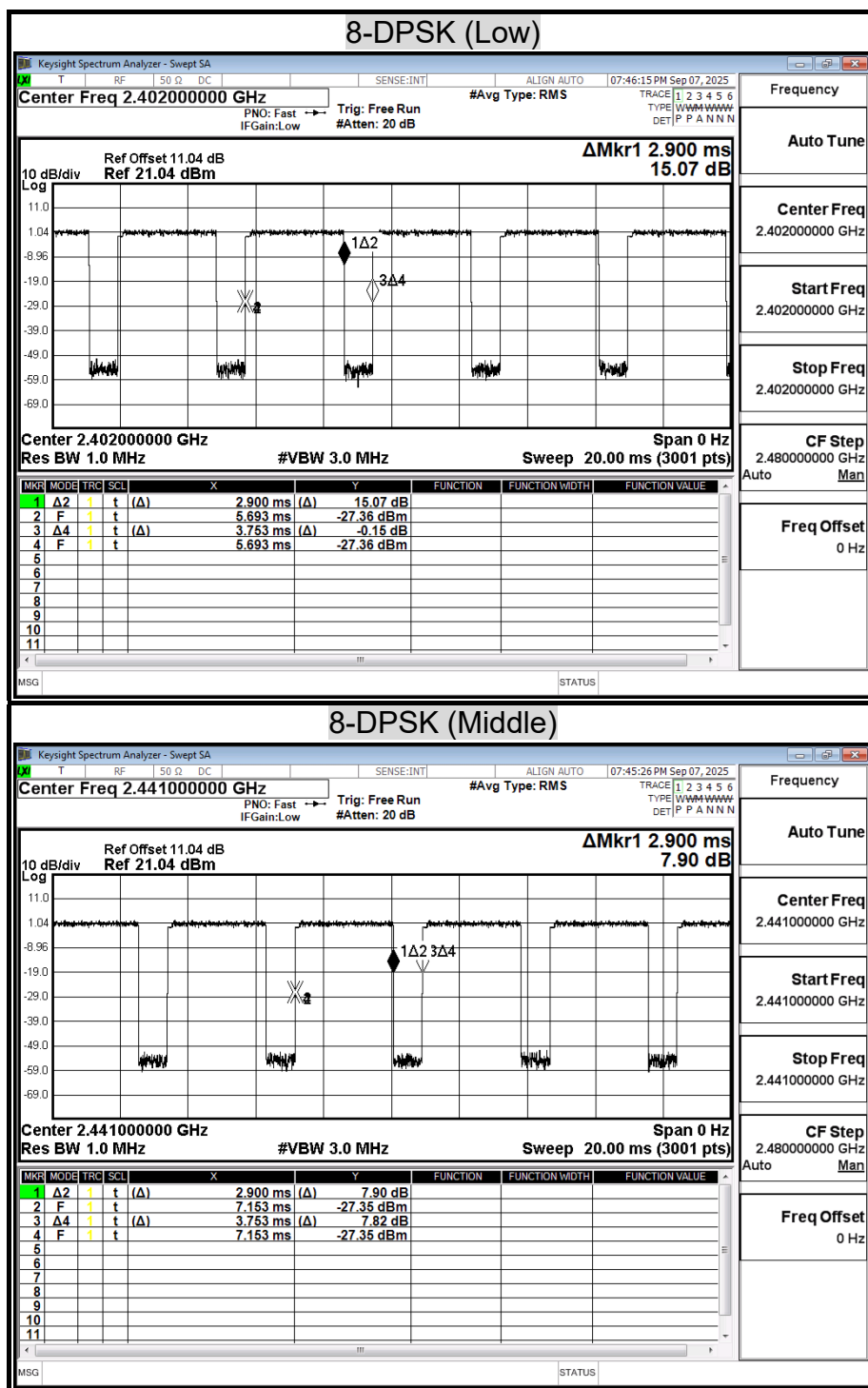
Ton	2.900
Tp(Ton+Toff)	3.753
Duty Cycle	0.773
$10 * \log (1/x) =$	1.120

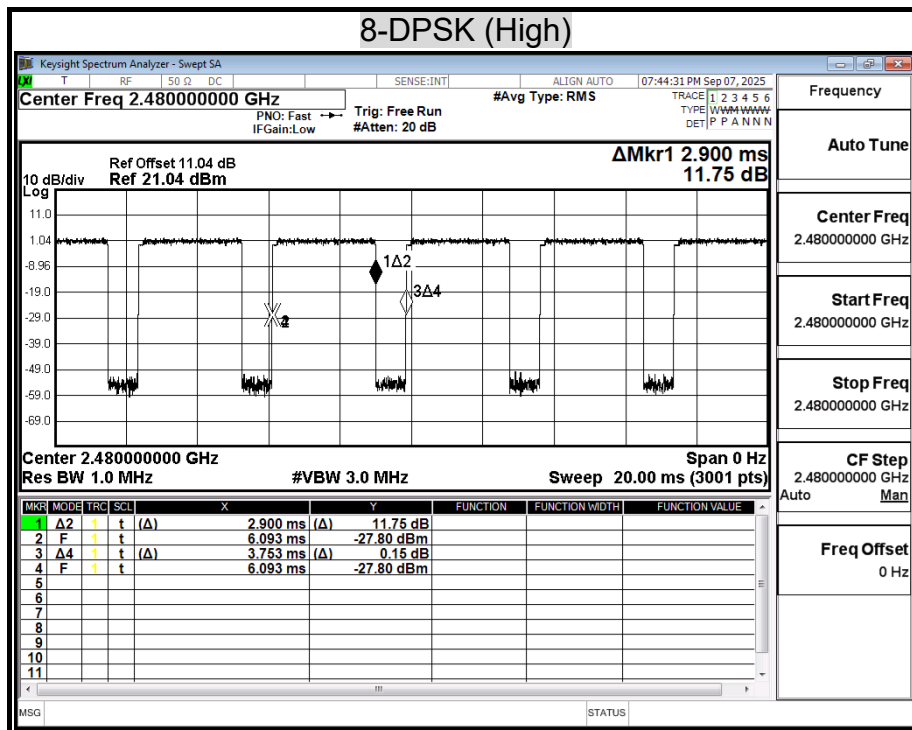
TEST PLOT

Duty Cycle







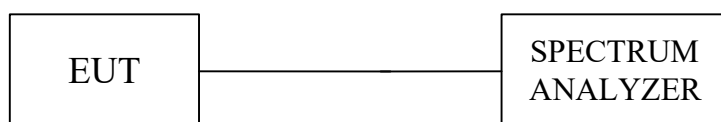


8.7 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band 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, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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)).

TEST SETUP



TEST PROCEDURE

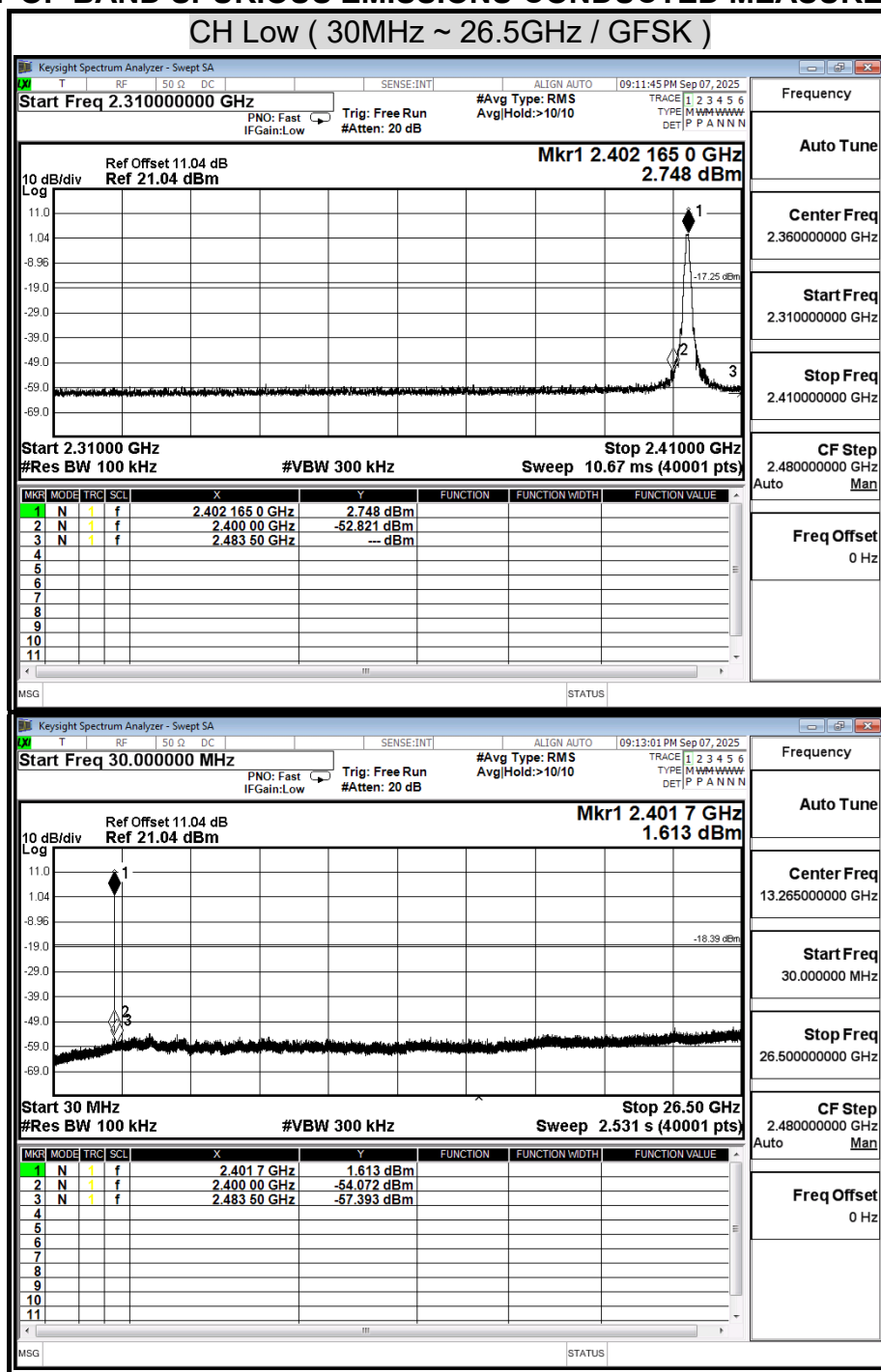
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

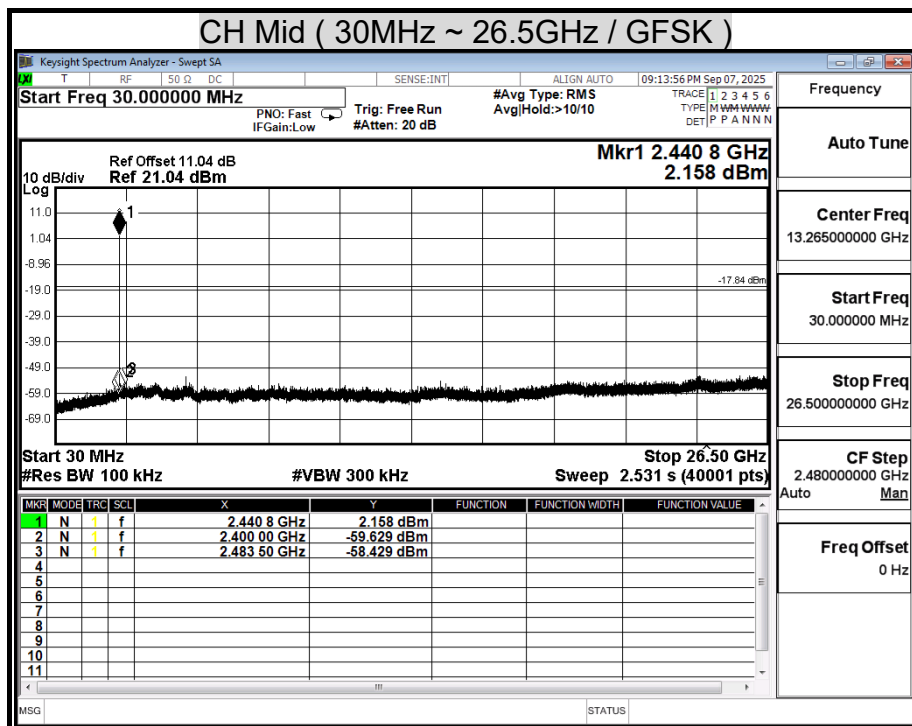
The spectrum from 30 MHz to 26.5 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

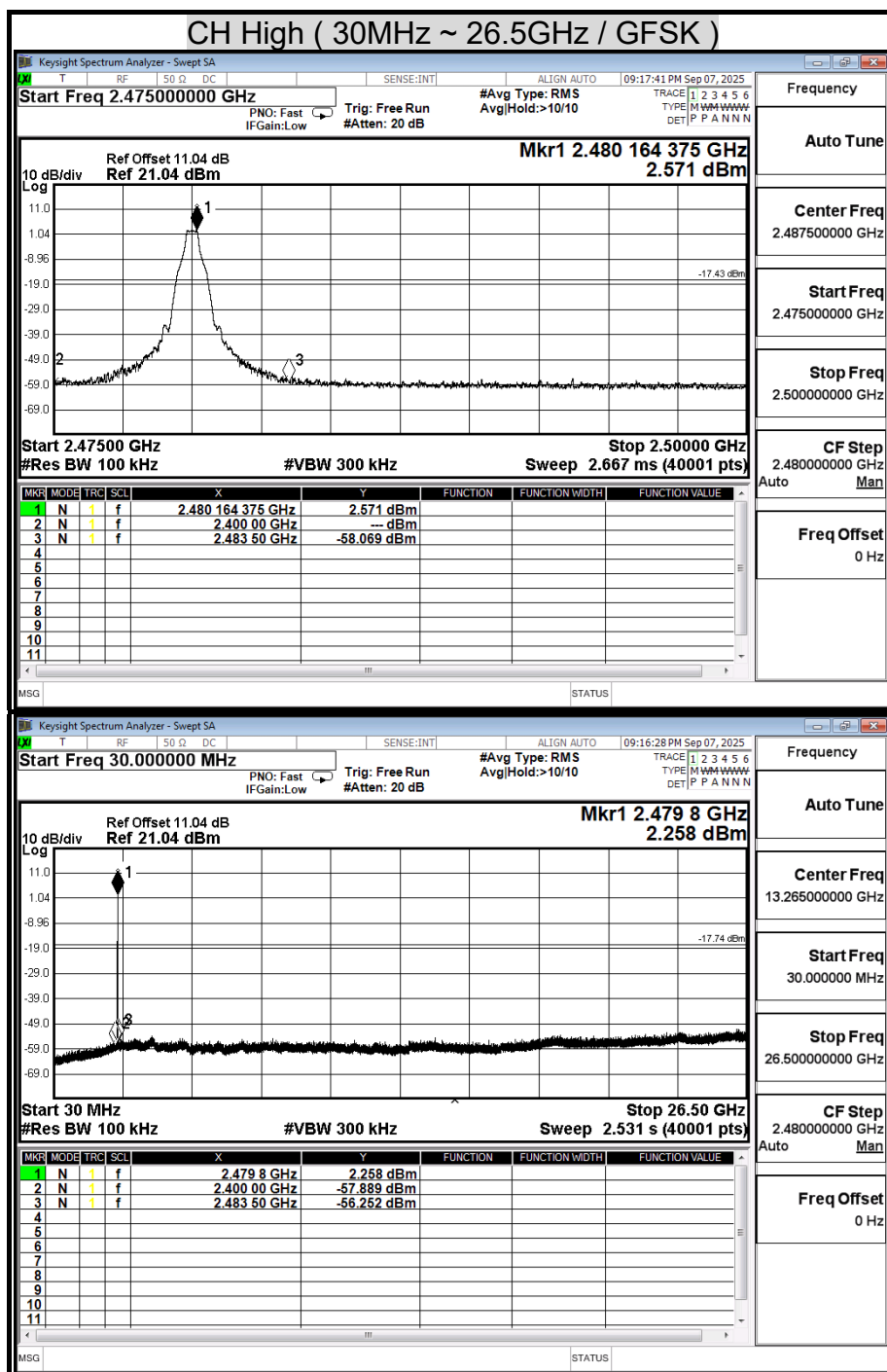
TEST RESULTS

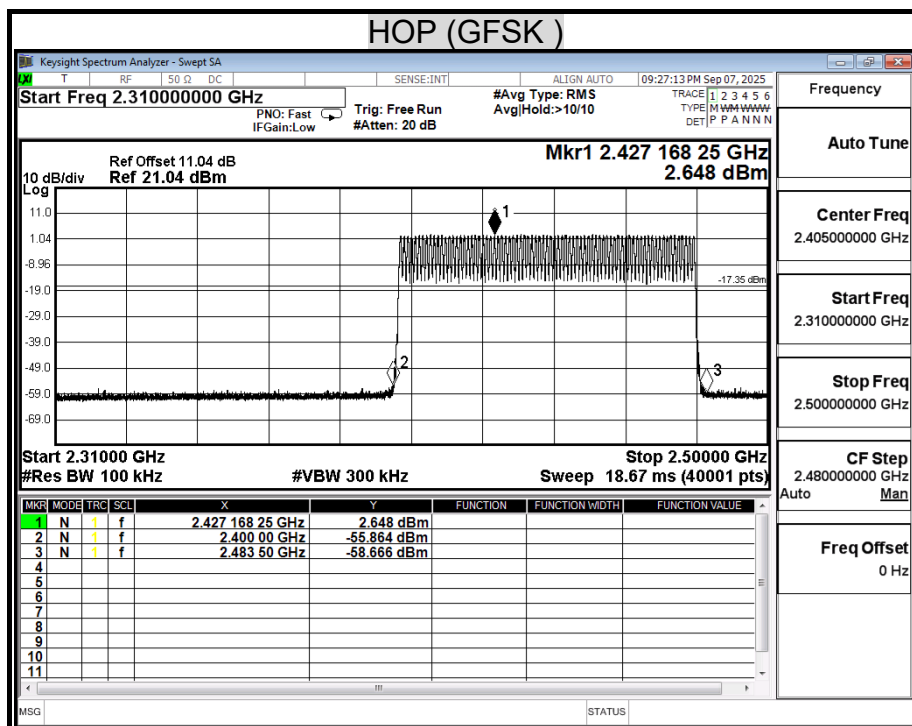
Model Name	DP-500BT	Test By	Ted Huang
Temp & Humidity	26.5°C, 44%	Test Date	2025/09/07

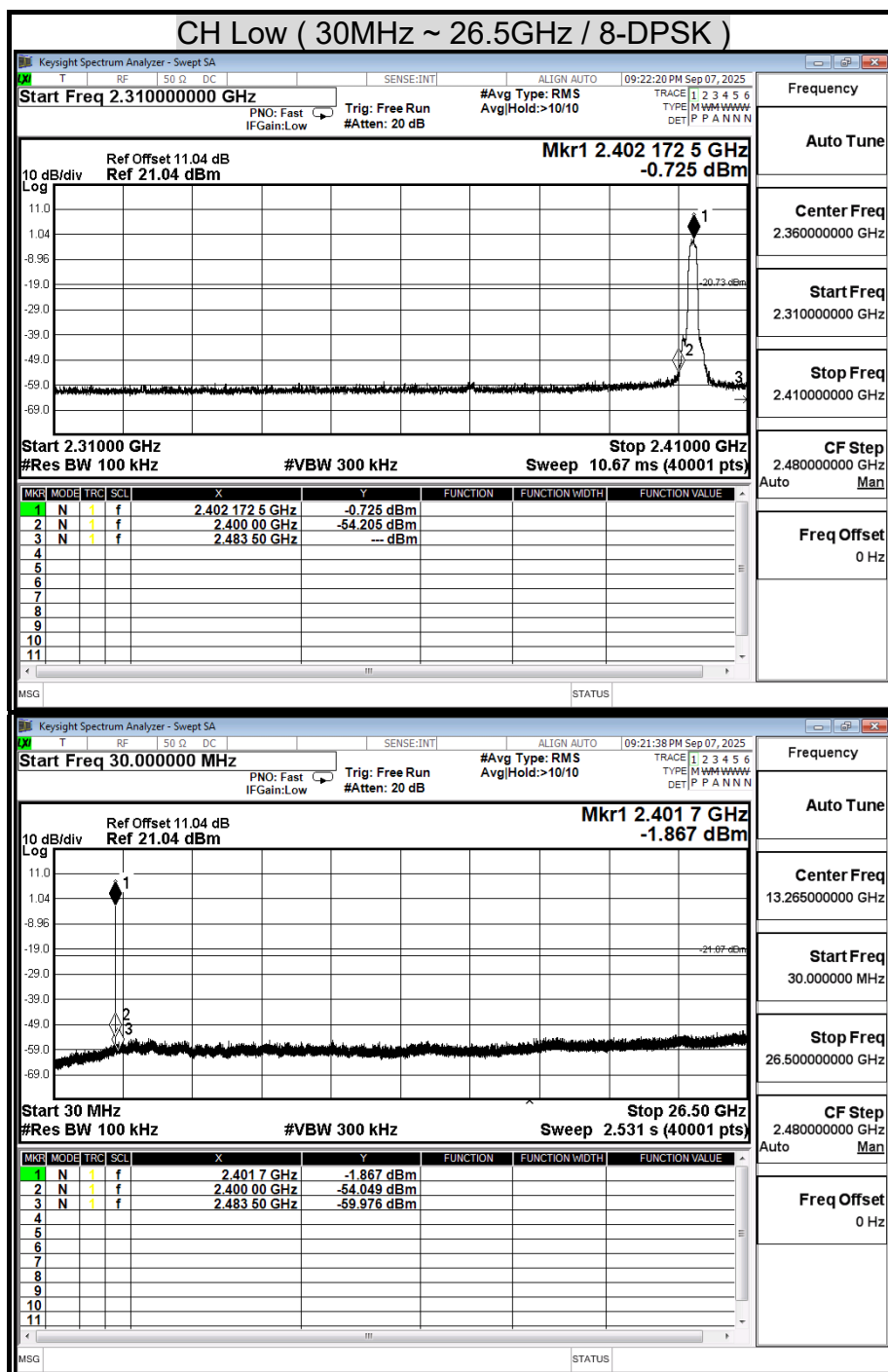
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

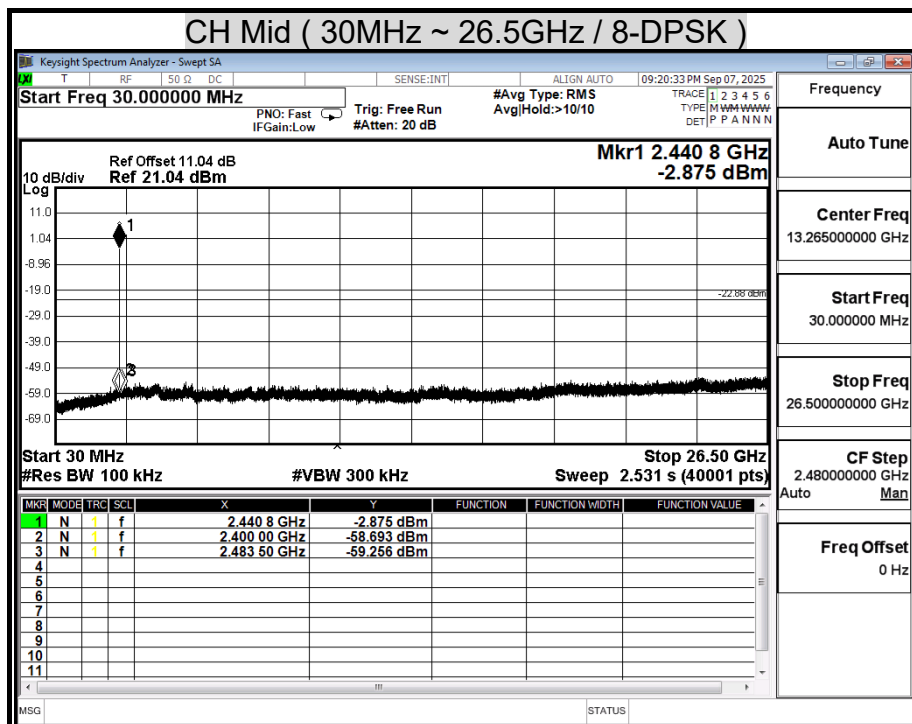


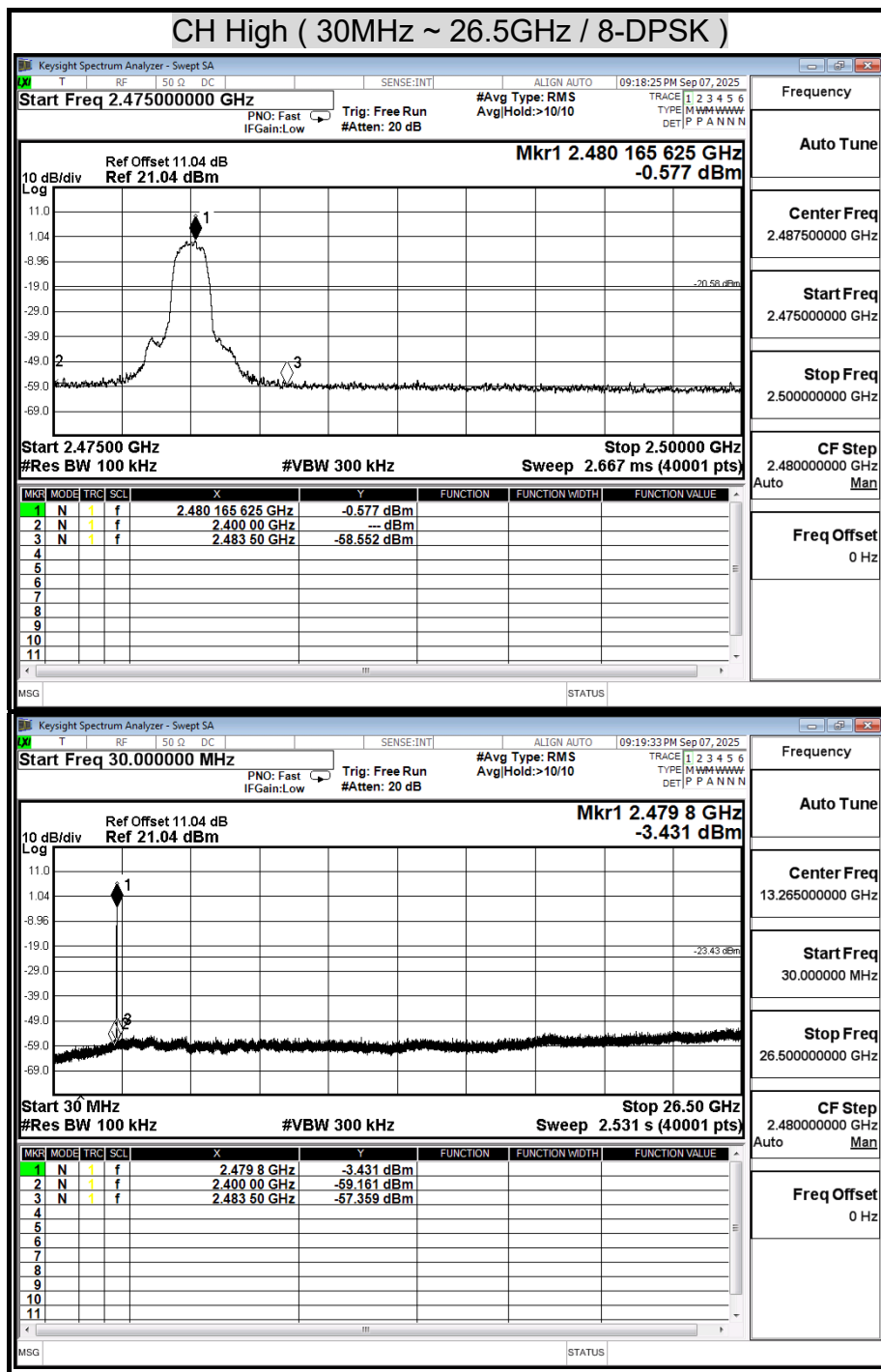


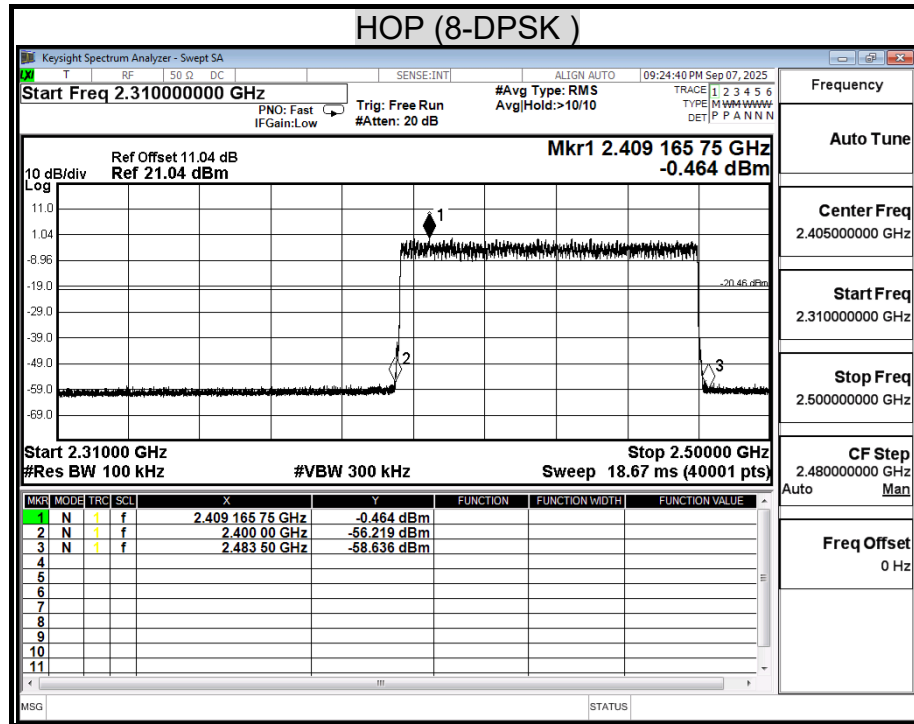












8.8 RADIATED EMISSIONS

8.8.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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	2655 - 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 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

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

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

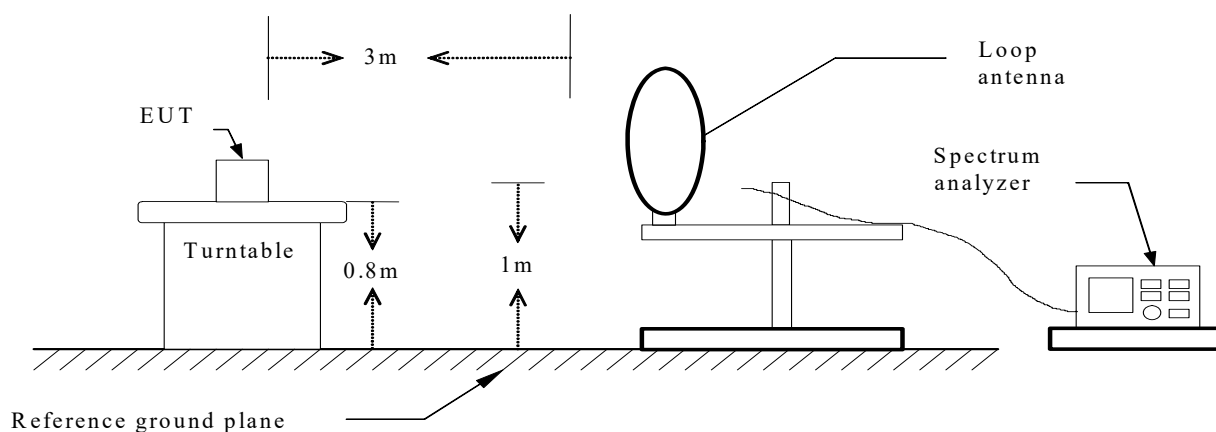
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this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

§ 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

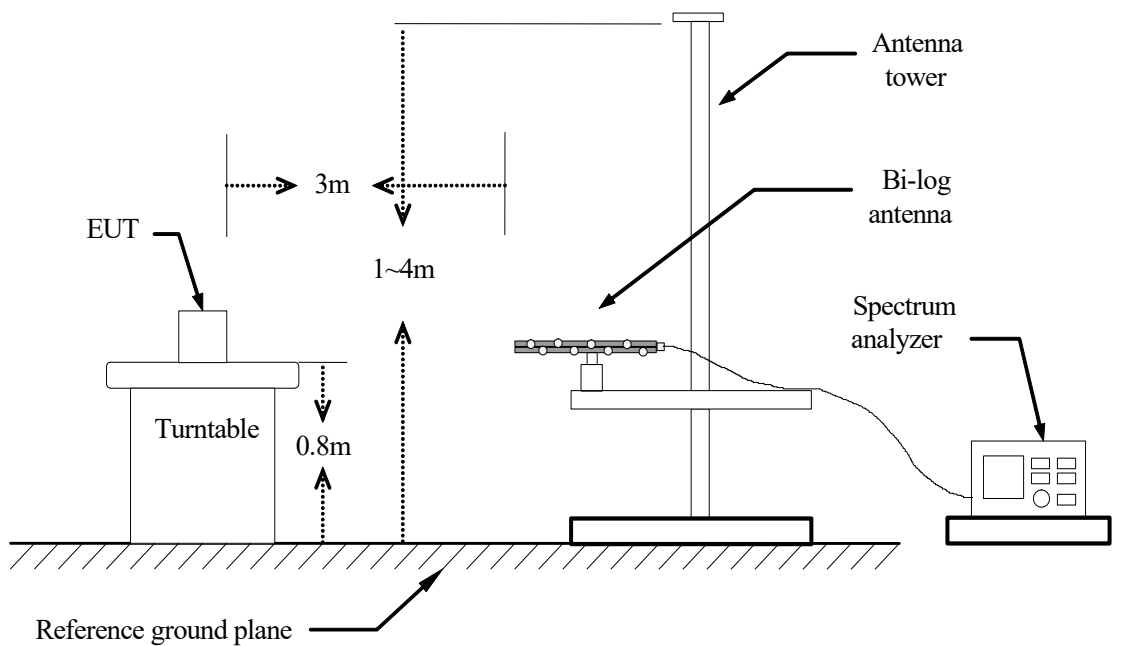
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

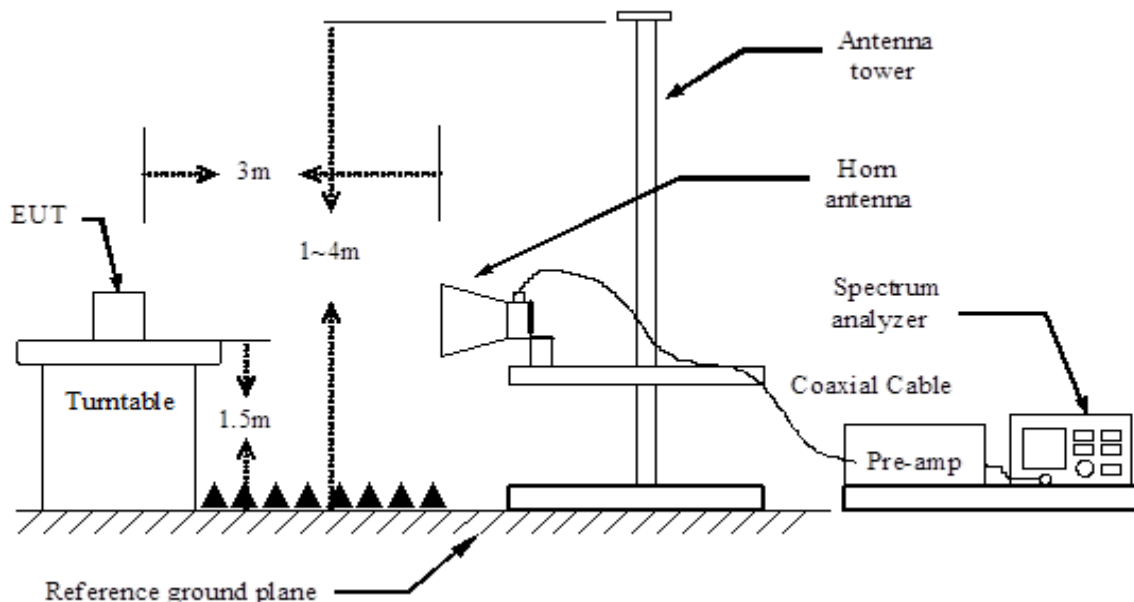
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meter chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The spectrum analyzer was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- The tests were performed in accordance with 558074 D01 15.247 Meas Guidance v05Note :

NOTE:

- The resolution bandwidth of test receiver is 200Hz for Quasi-peak detection (QP) and Average detection (AV) at frequency 9~150(kHz).
- The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) and Average detection (AV) at frequency 0.15~30(MHz).

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3. The resolution bandwidth of test receiver is 120kHz for Quasi-peak detection (QP) at frequency 30~1000(MHz).
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth $\leq 1/T$ for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

No non-compliance noted

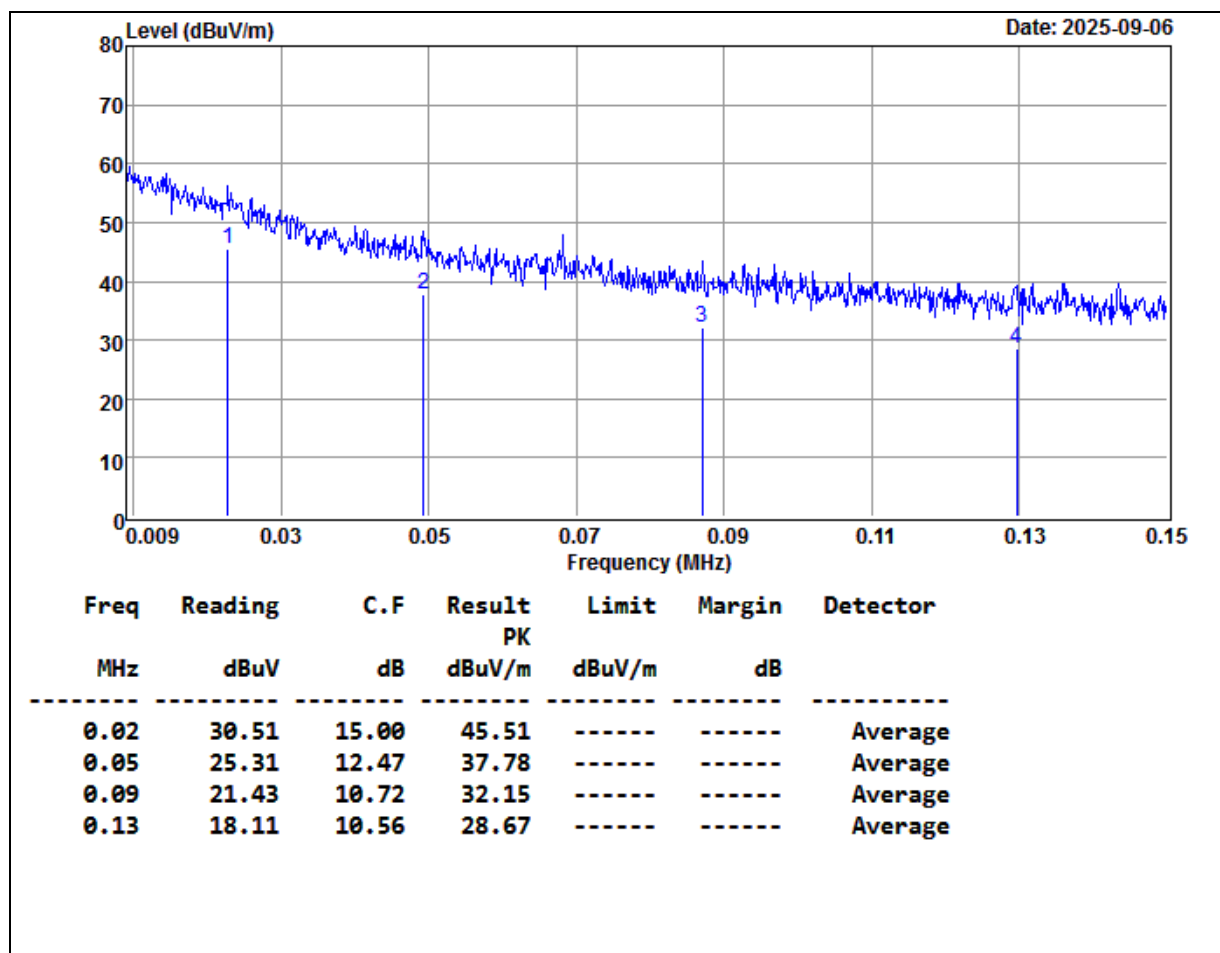
8.8.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

BELOW 1 GHz (9kHz ~ 30MHz)

3m

Test Voltage: AC 120V, 60Hz

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%

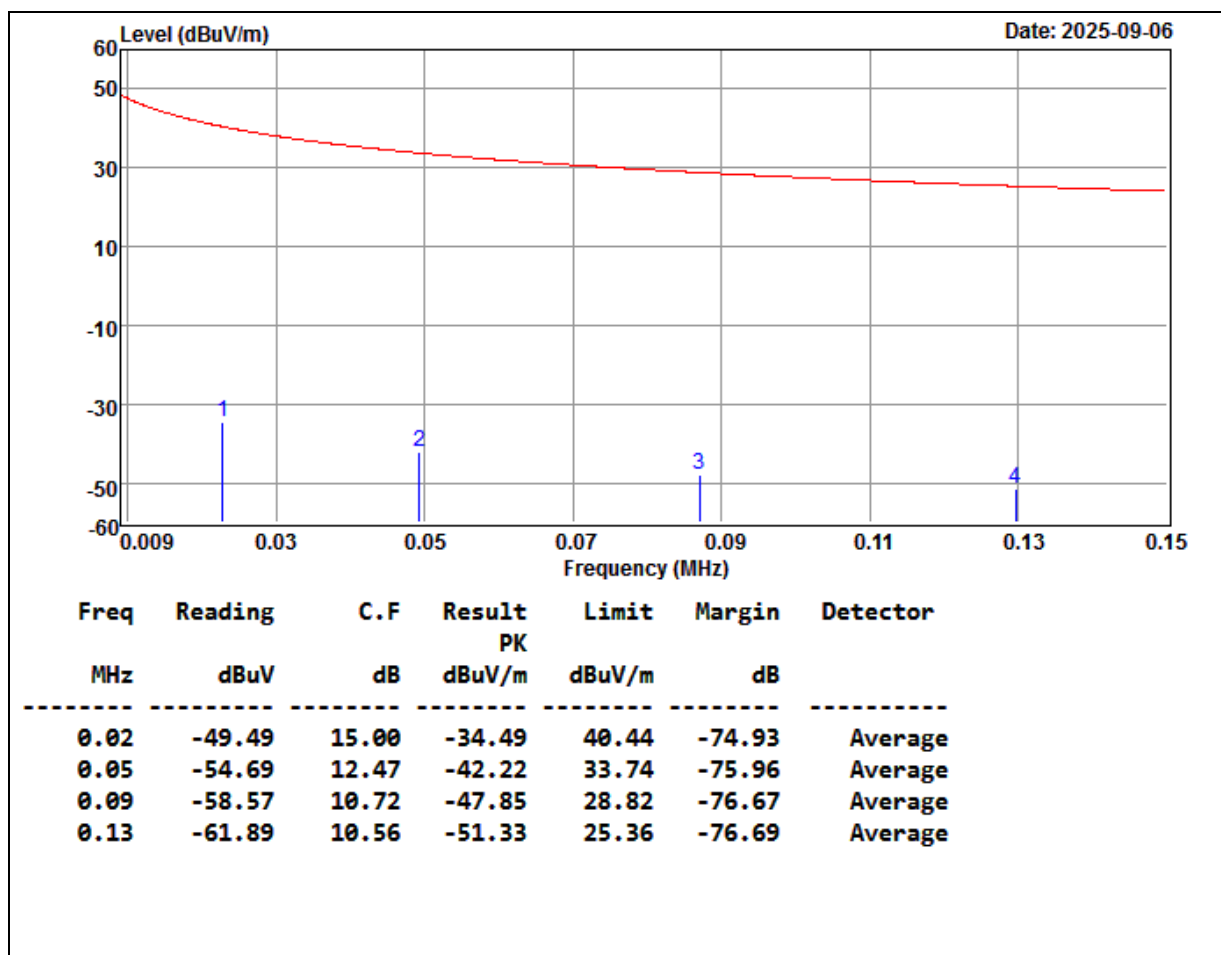


REMARK:

1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Standard

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%



REMARK:

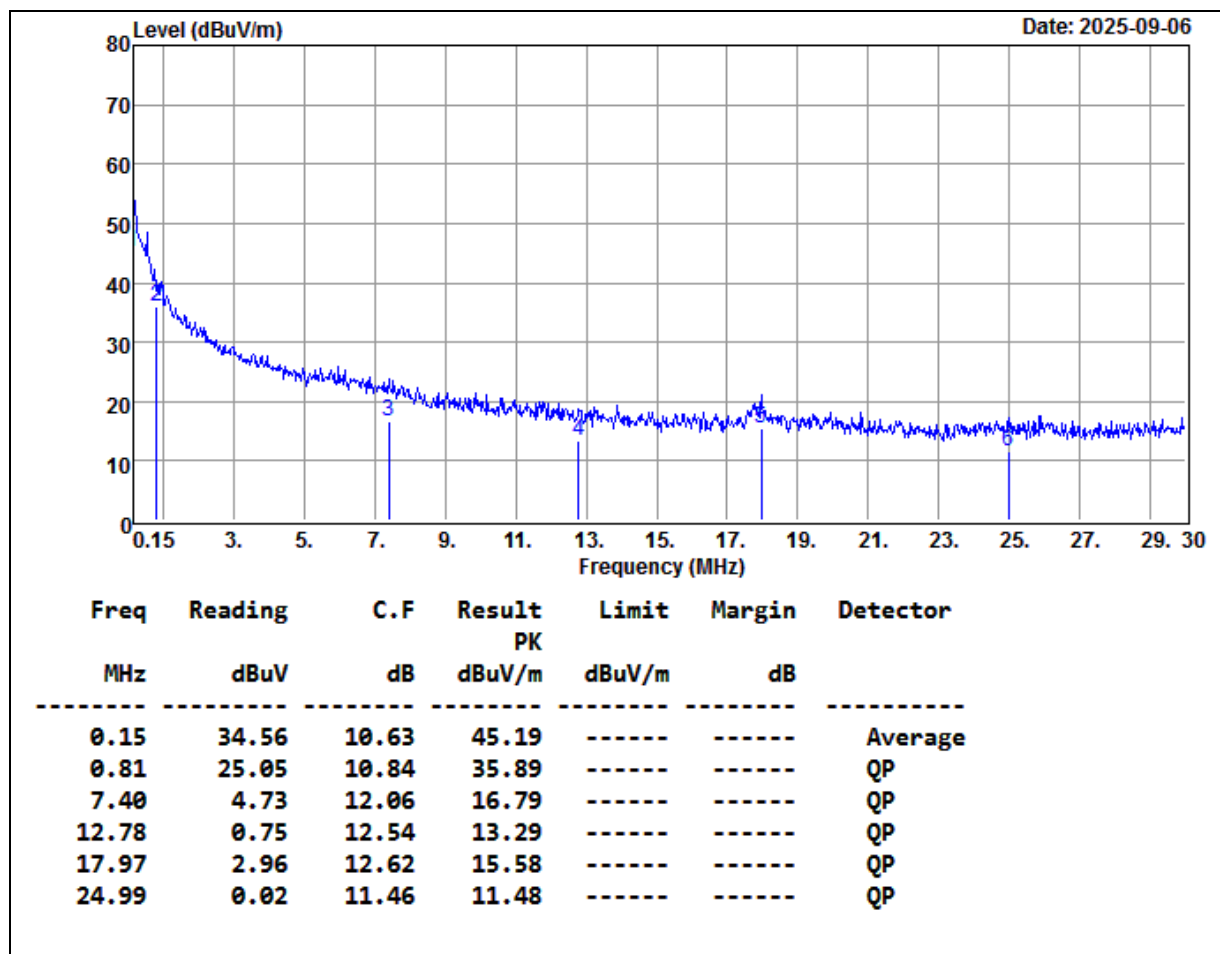
1. Test receiver setting QP(Quasi Peak) 、Average: RBW=200Hz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

150kHz~30MHz

3m

Test Voltage: AC 120V, 60Hz

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%

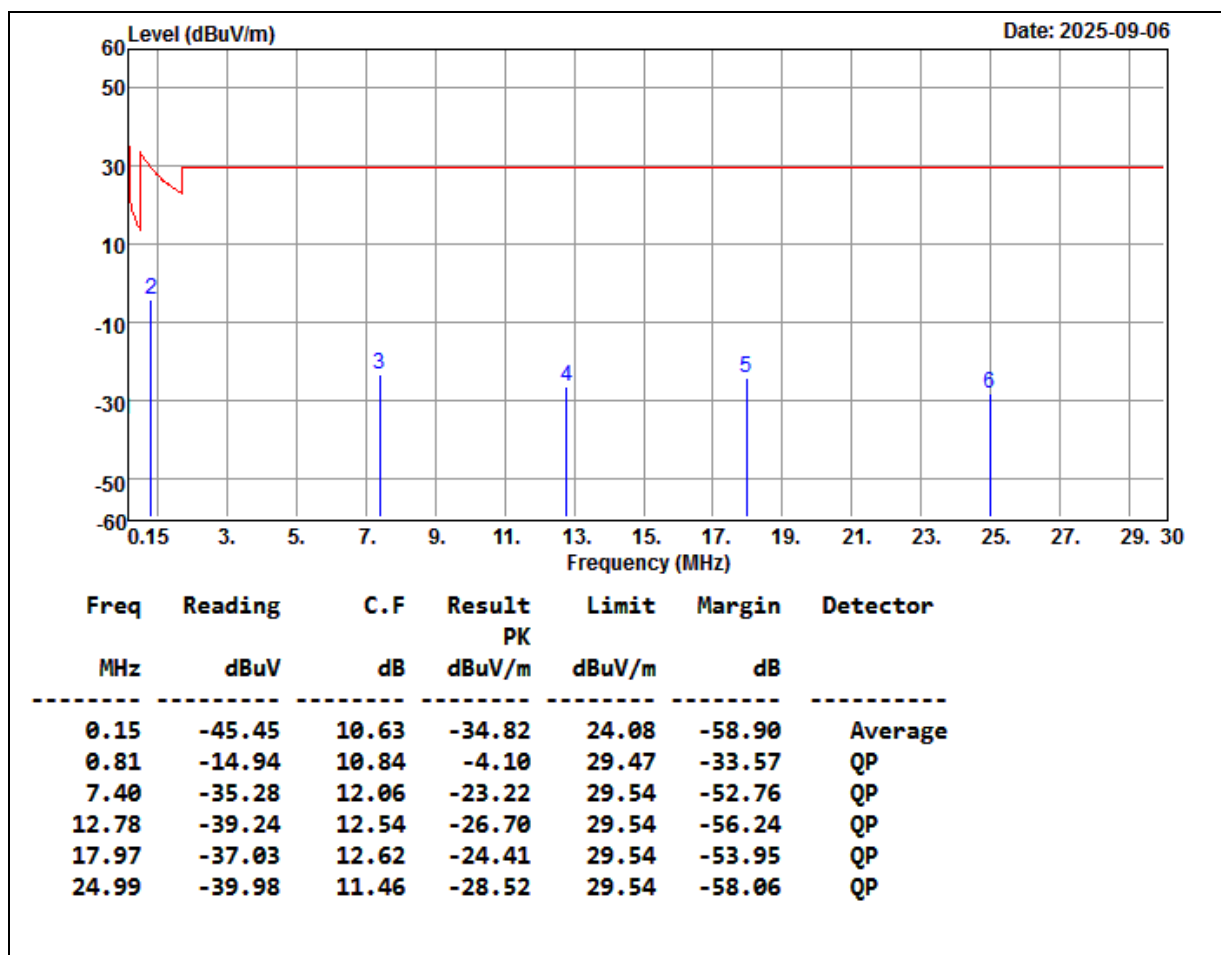


REMARK:

1. Test receiver setting QP(Qusai Peak) 、Average : RBW=9kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Standard

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%



REMARK:

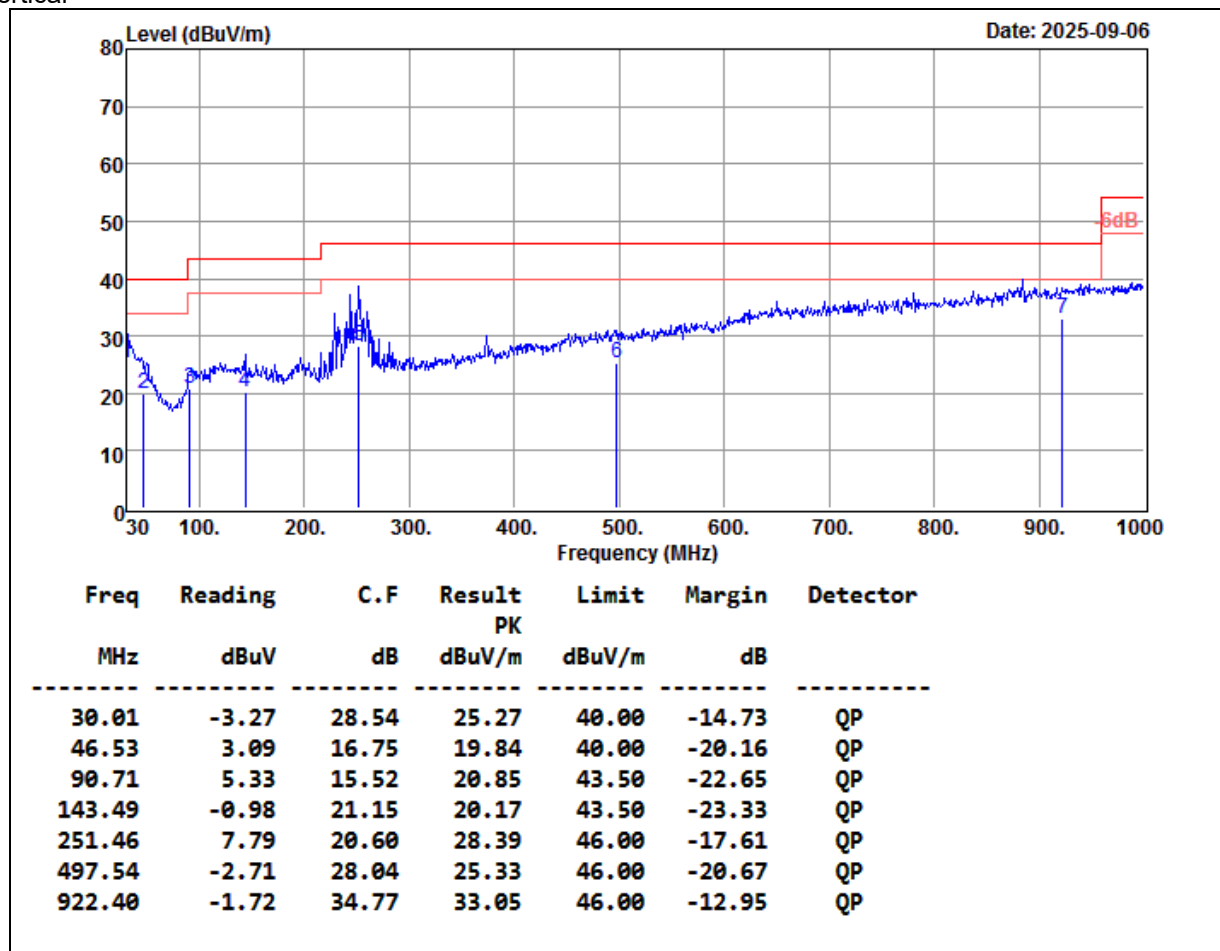
1. Test receiver setting QP(Qusai Peak) 、Average : RBW=9kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test is standard distance.

Report No.: TMTN2506000701NR
BELOW 1 GHz (30MHz ~ 1GHz)

Test Voltage: AC 120V, 60Hz

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%

Vertical

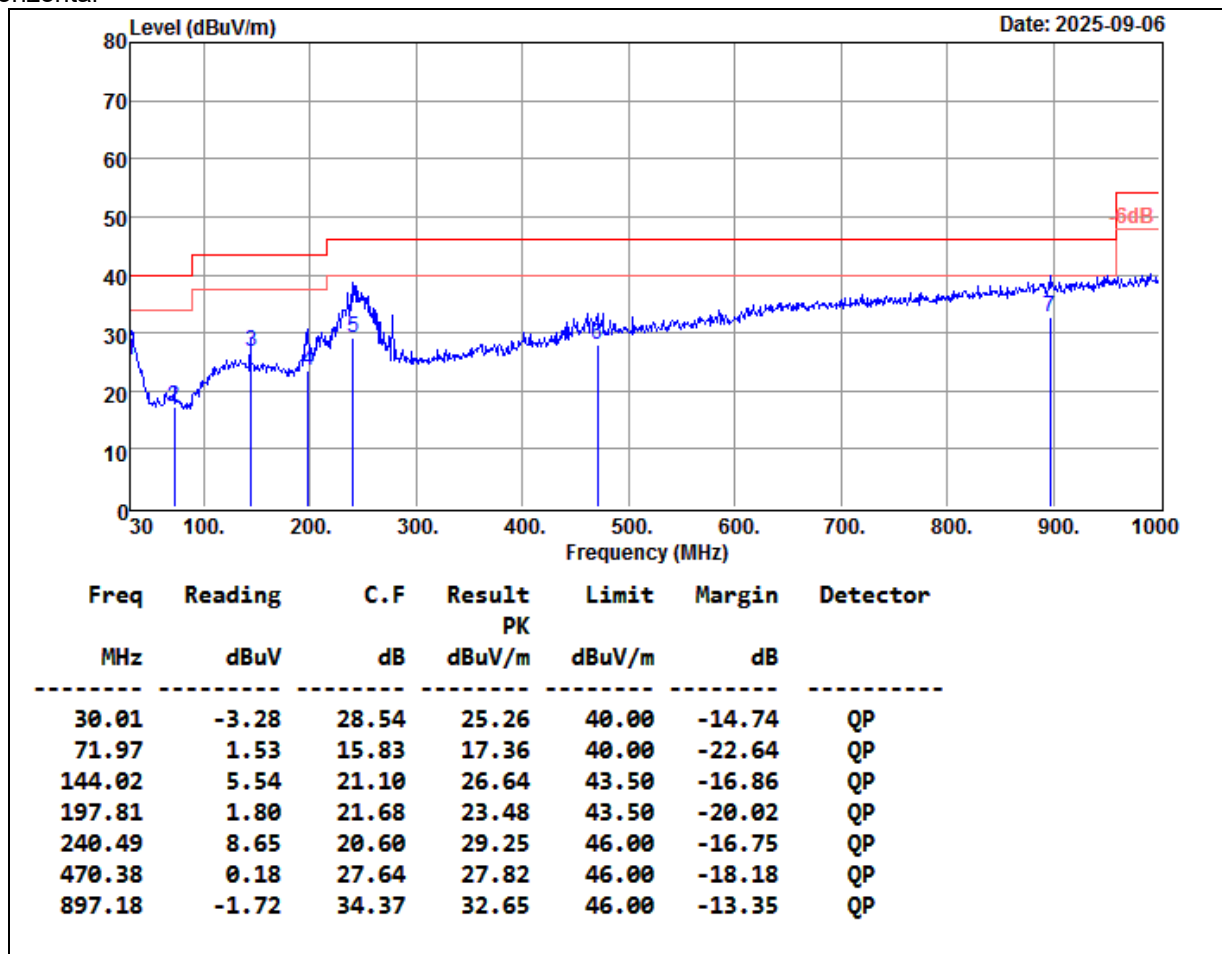


REMARK:

1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/06
Model Name	DP-500BT	Test By	Ted Huang
Test Mode	TX	Temp & Humidity	25.2°C, 43%

Horizontal



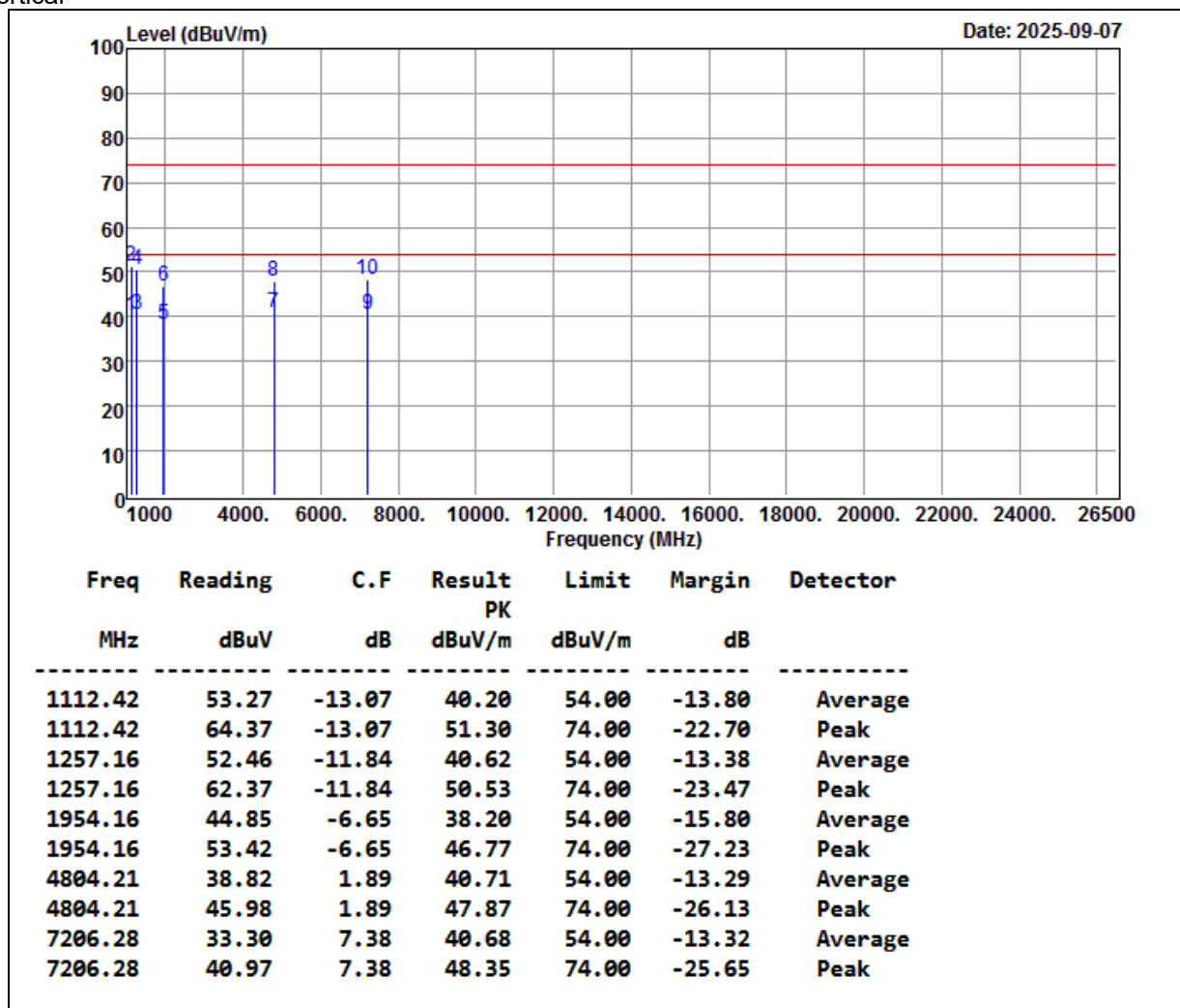
REMARK:

1. Test receiver setting QP(Qusai Peak): RBW=120kHz
2. C.F=Antenna Factor+Cable Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

8.8.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / GFSK	TEMP& Humidity	25.2°C, 43%

Vertical

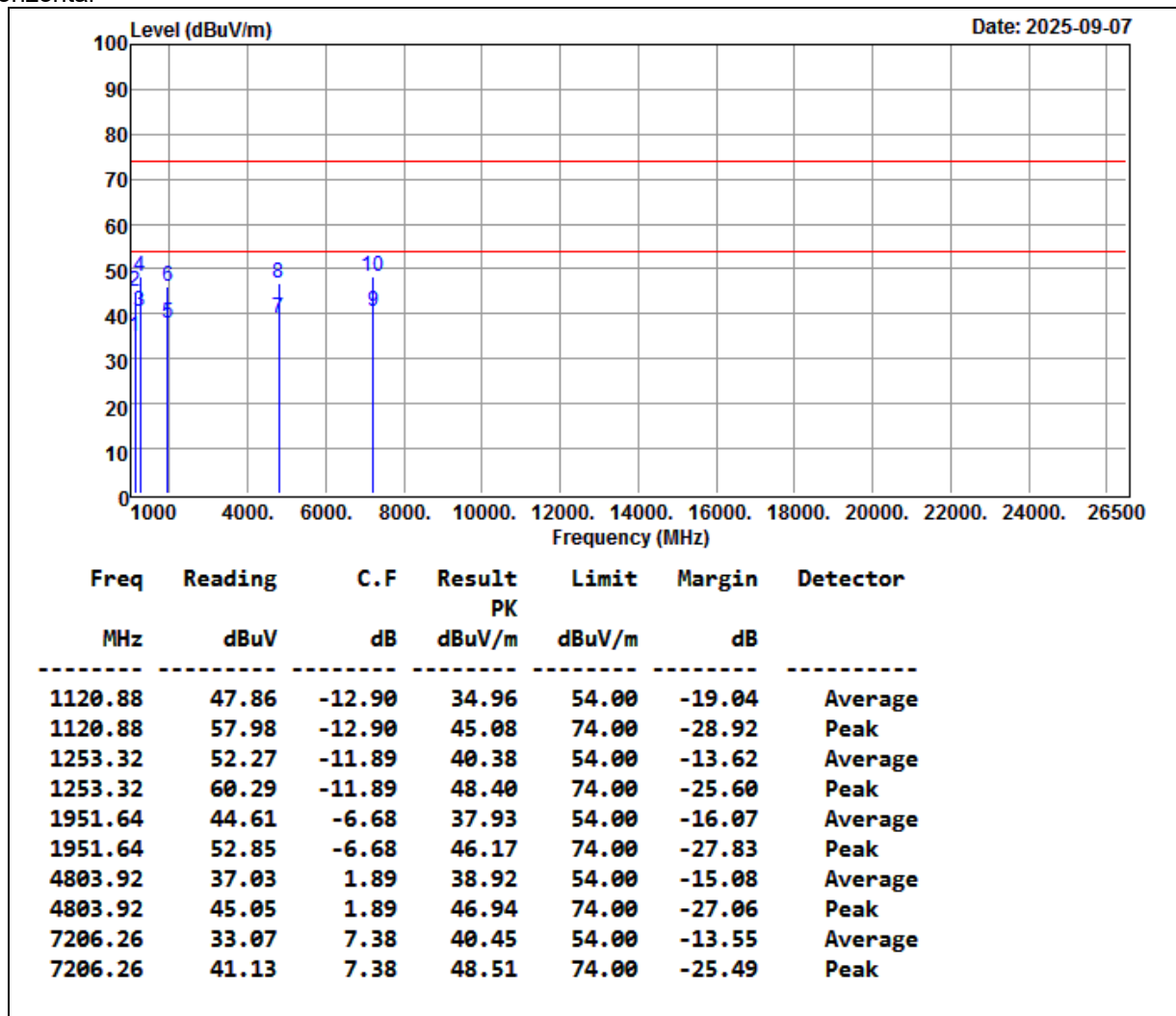


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / GFSK	TEMP& Humidity	25.2°C, 43%

Horizontal

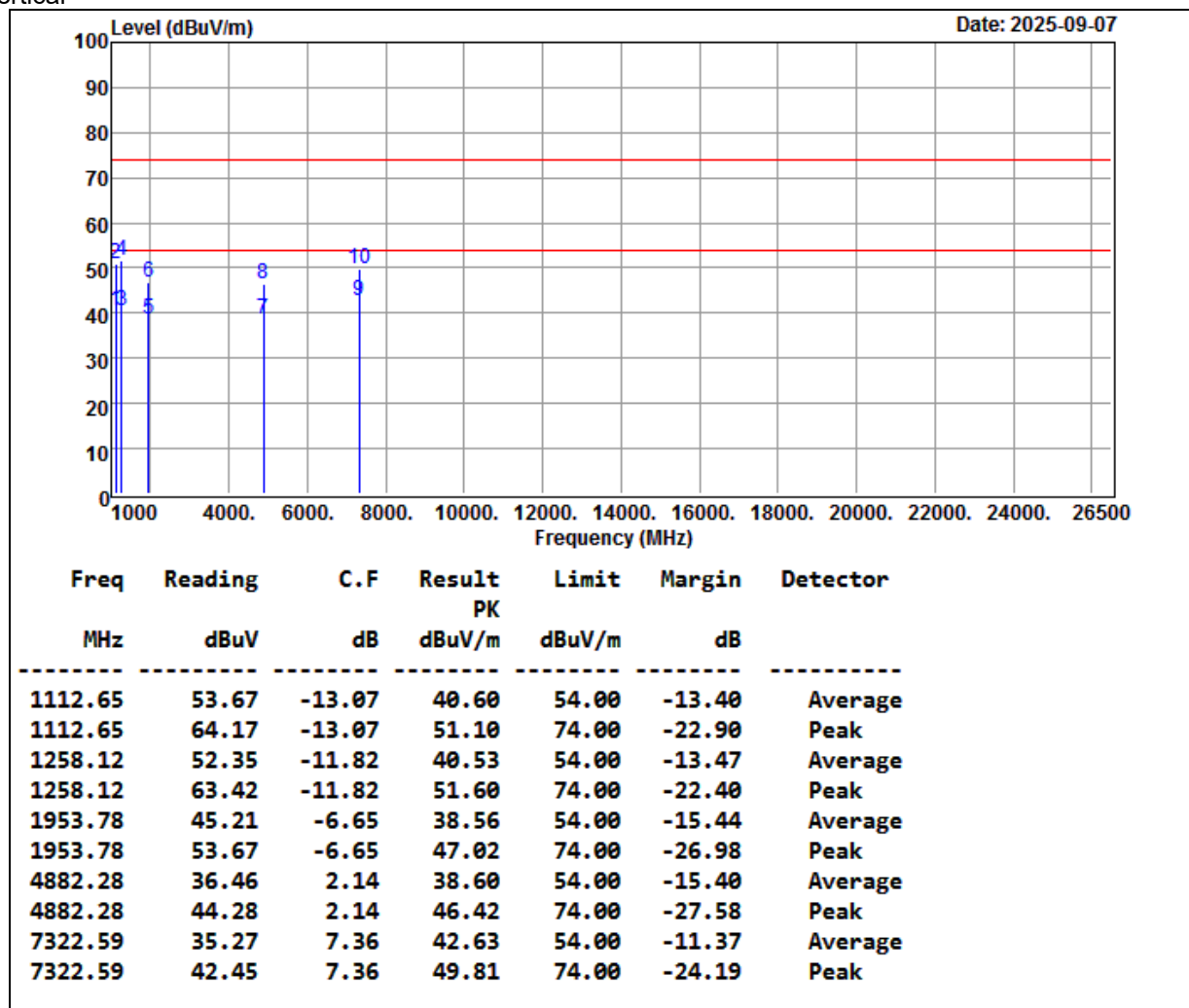


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Mid TX / GFSK	TEMP& Humidity	25.2°C, 43%

Vertical

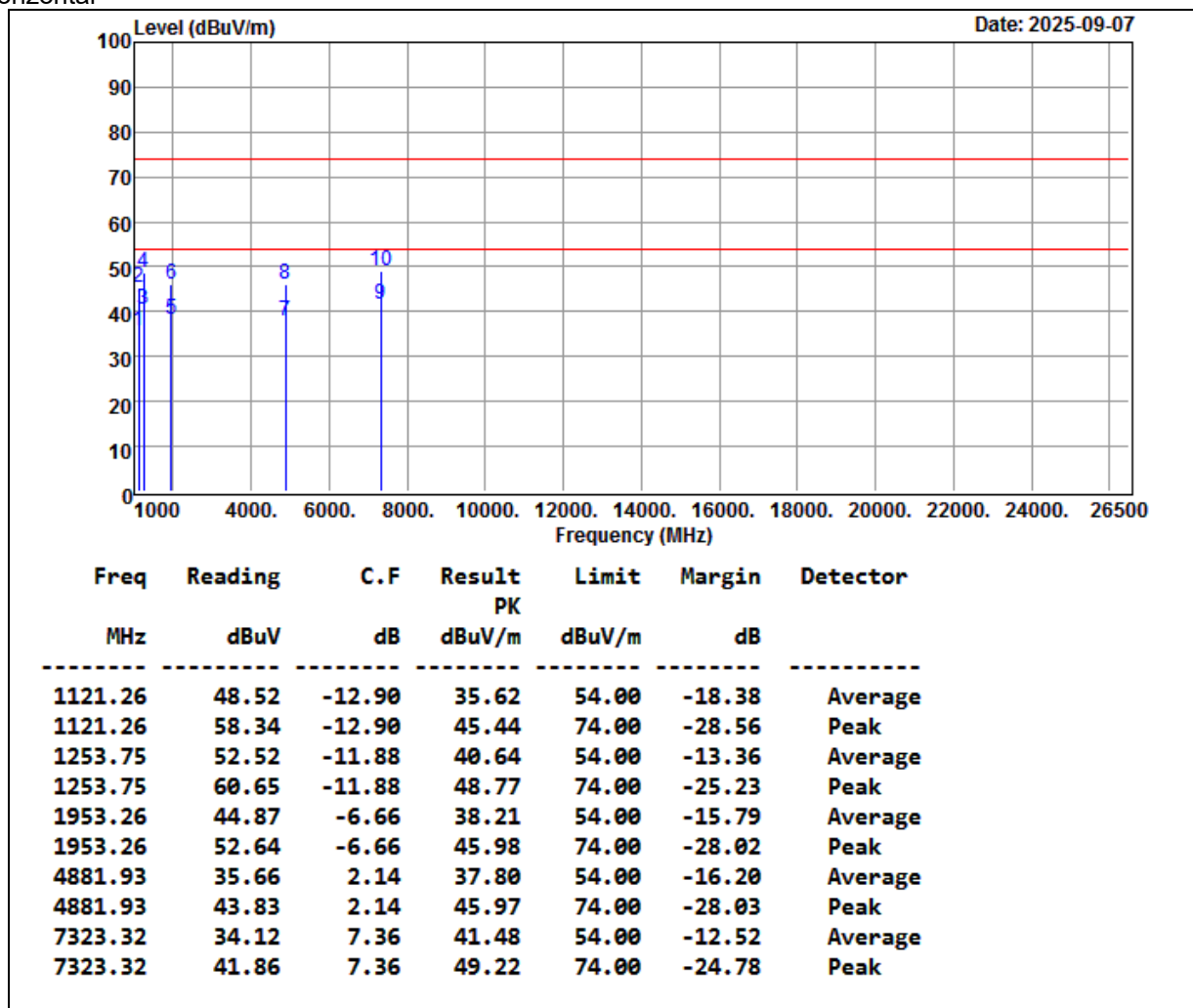


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Mid TX / GFSK	TEMP& Humidity	25.2°C, 43%

Horizontal

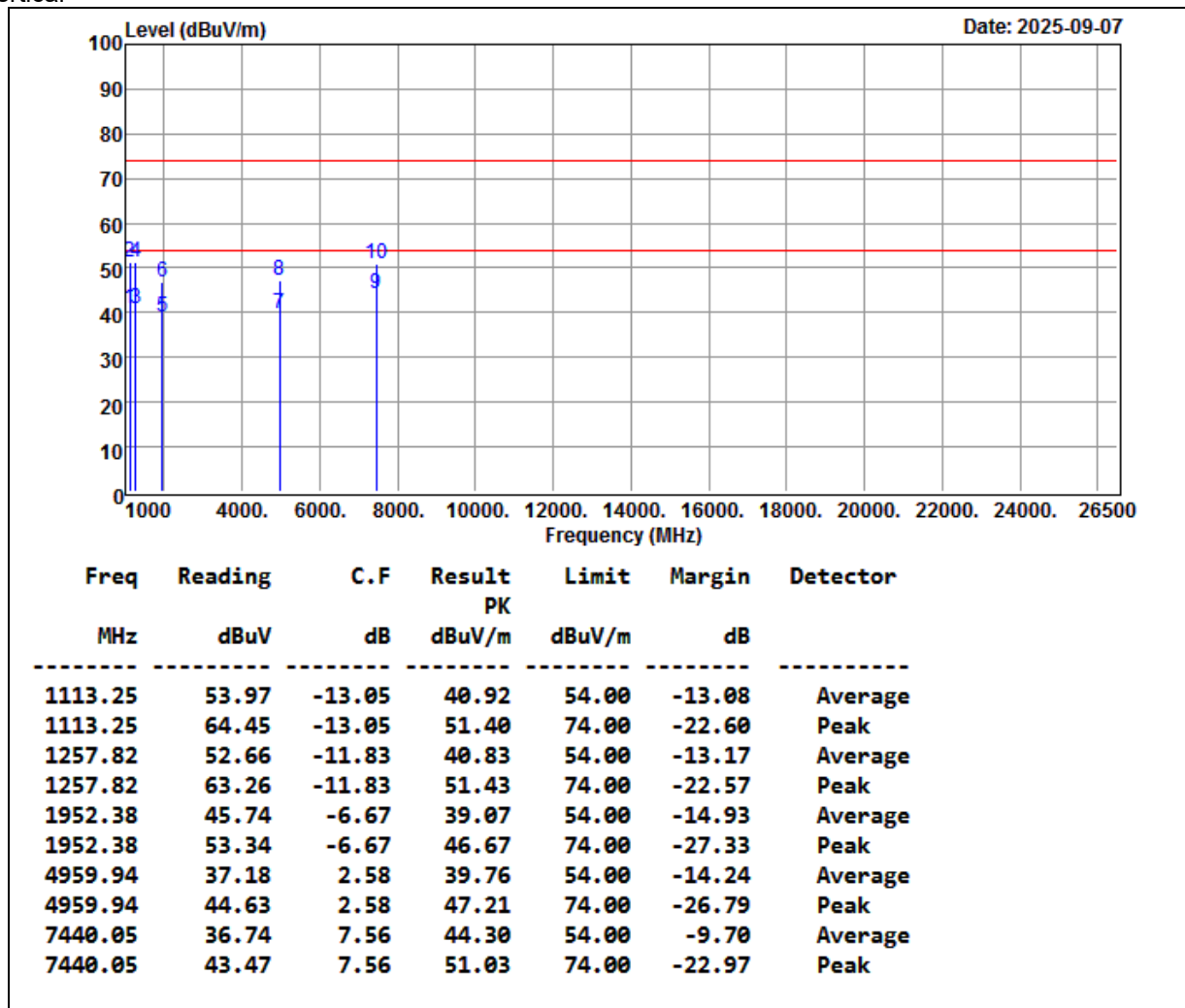


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq 1/T$
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / GFSK	TEMP& Humidity	25.2°C, 43%

Vertical

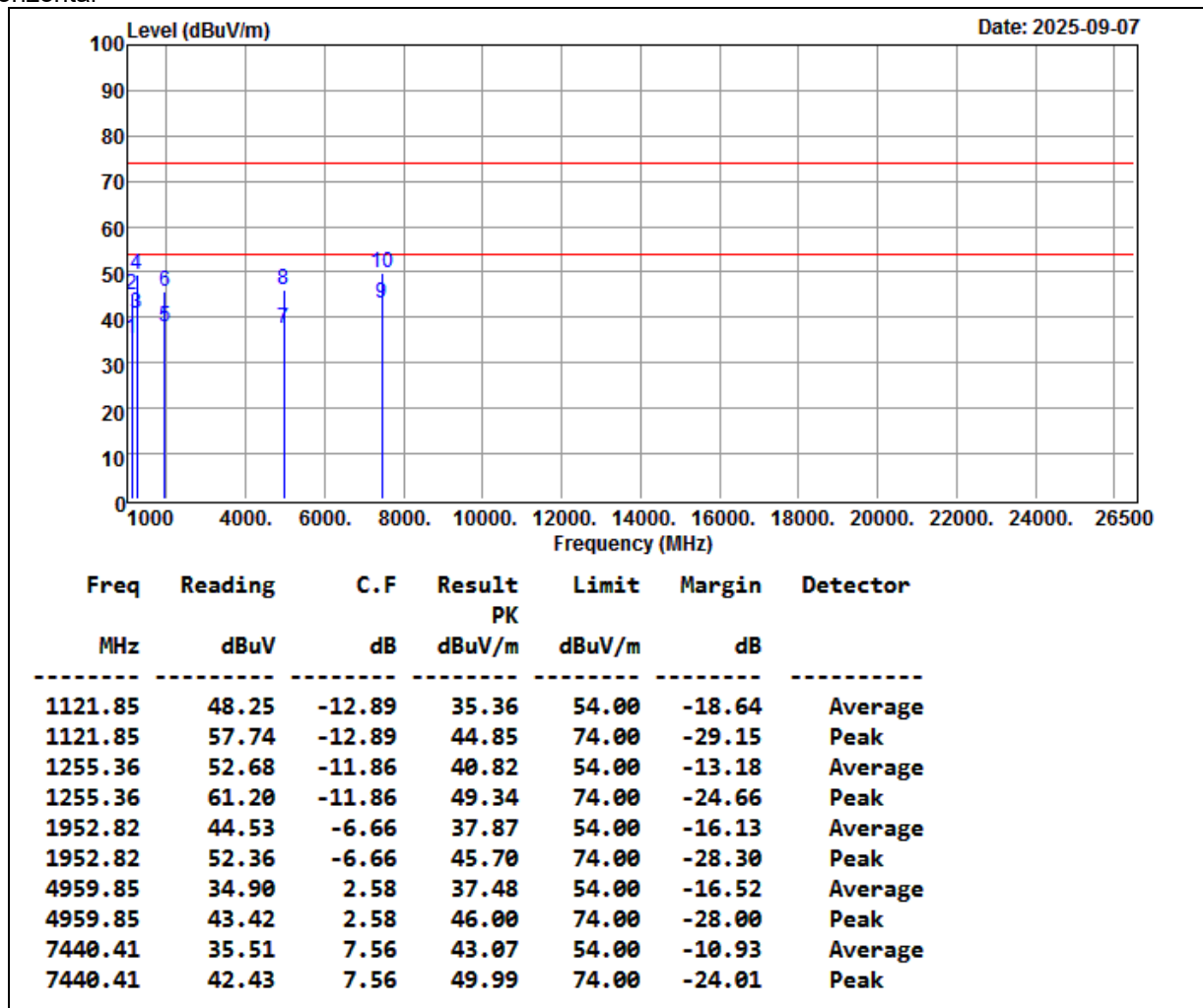


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq 1/T$
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / GFSK	TEMP& Humidity	25.2°C, 43%

Horizontal

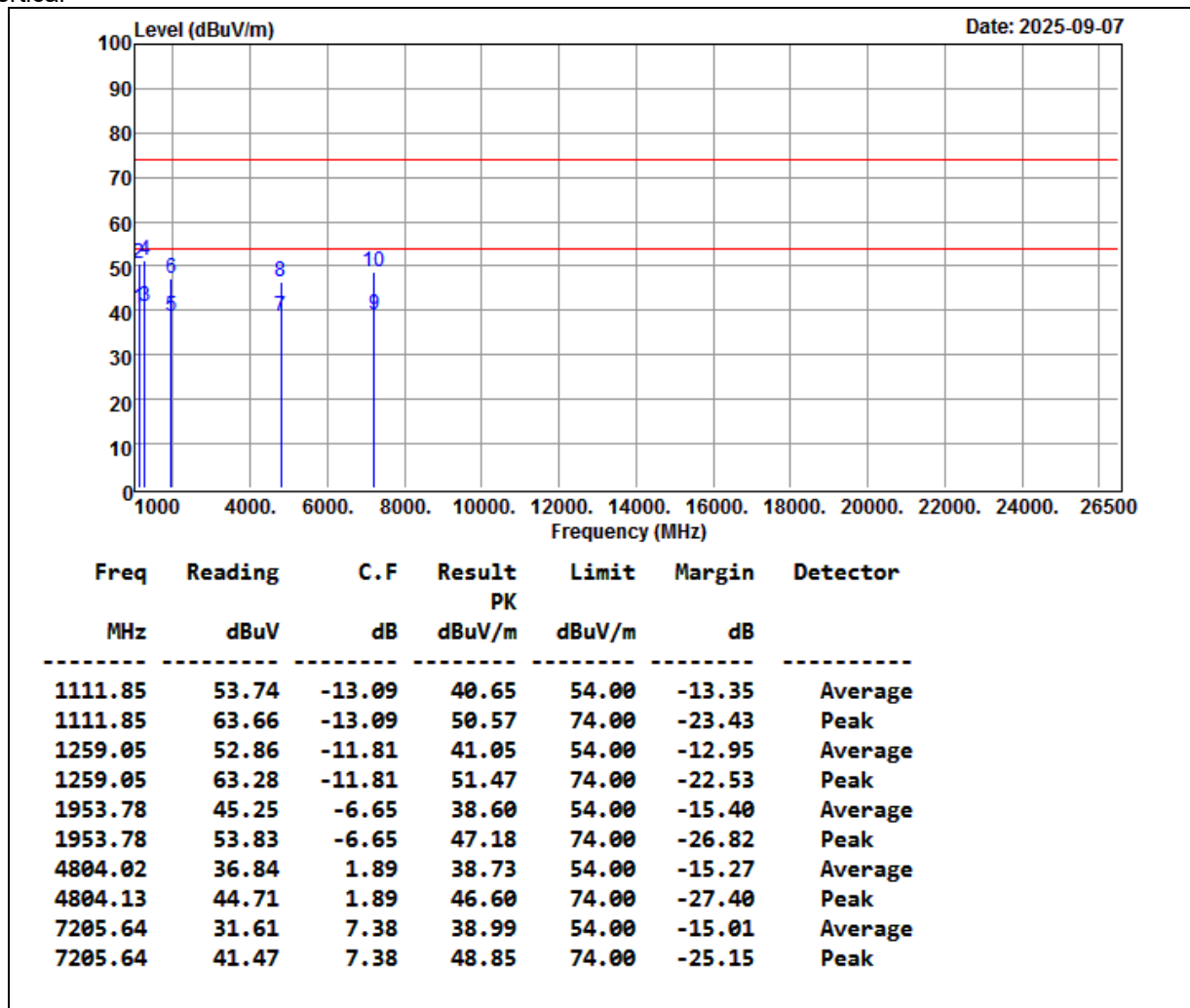


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Vertical

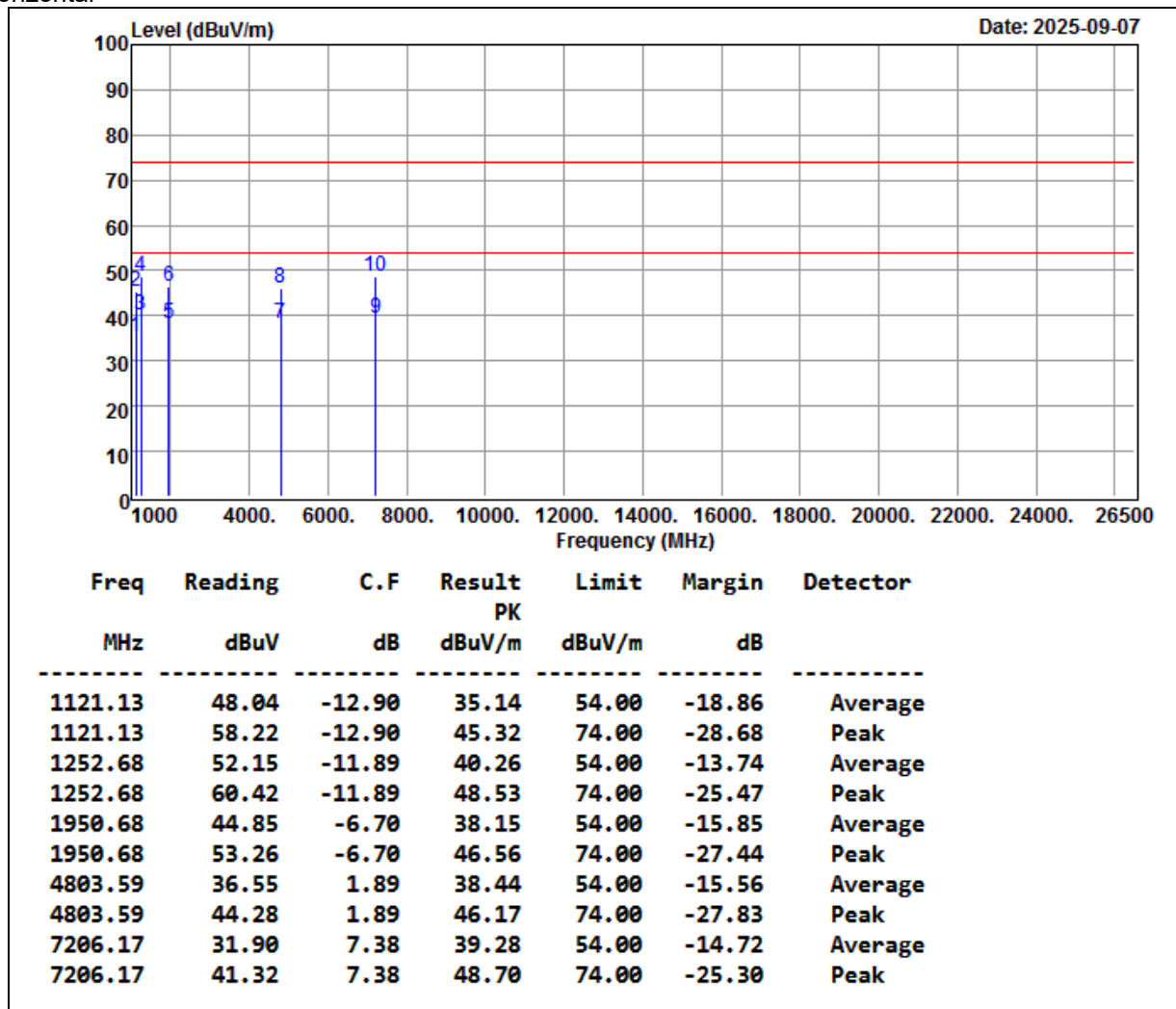


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq 1/T$
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Horizontal

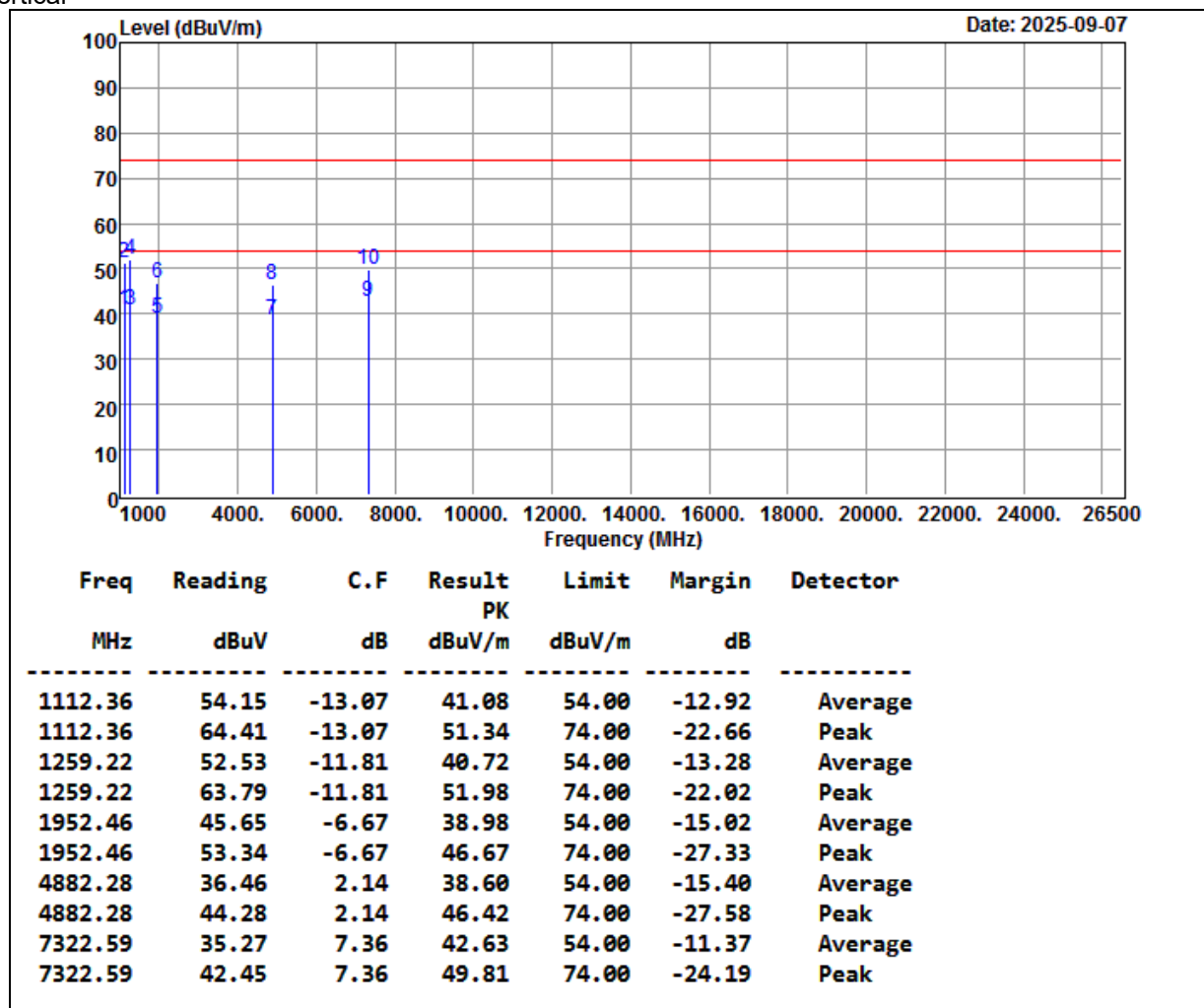


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Mid TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Vertical

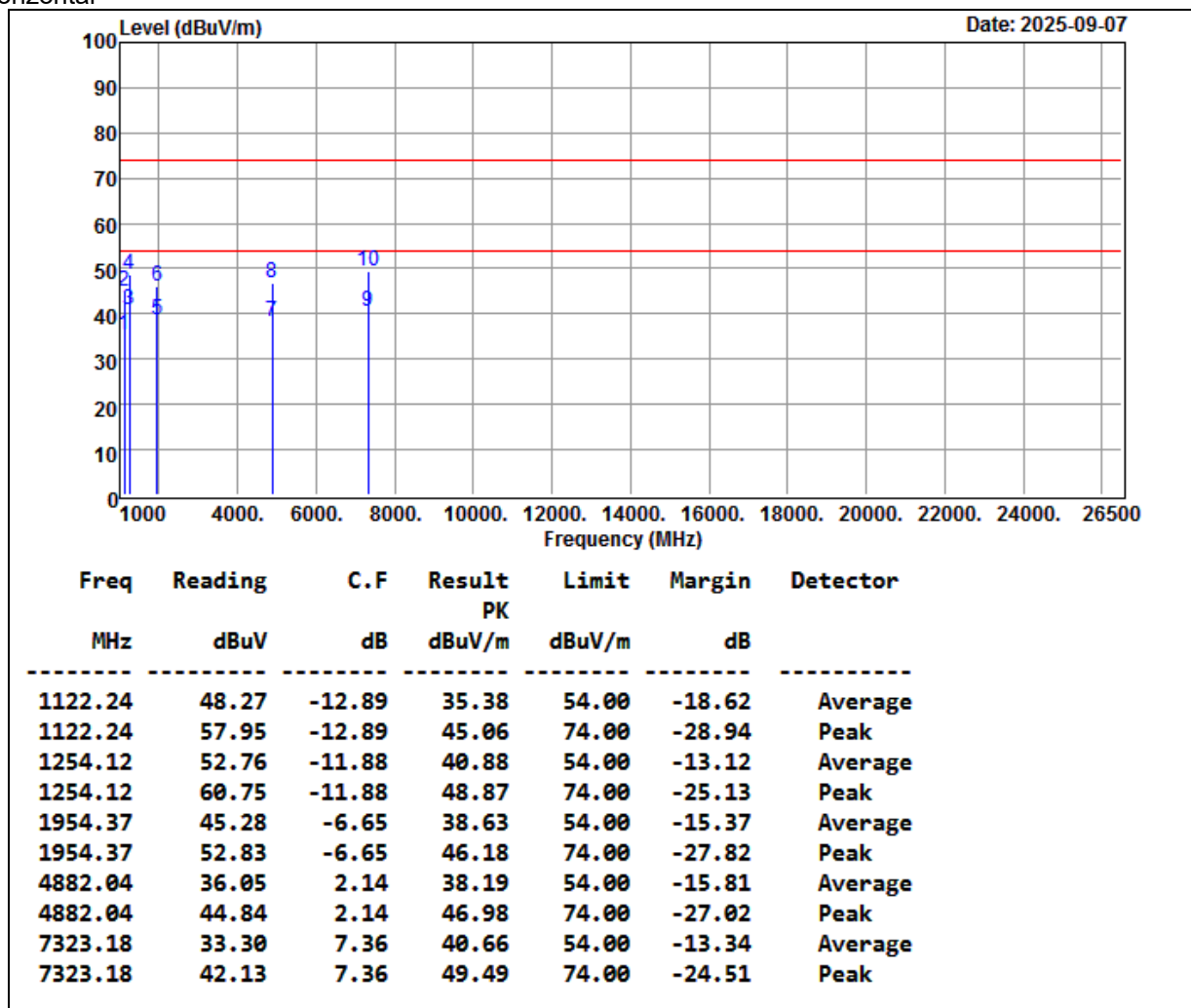


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Mid TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Horizontal

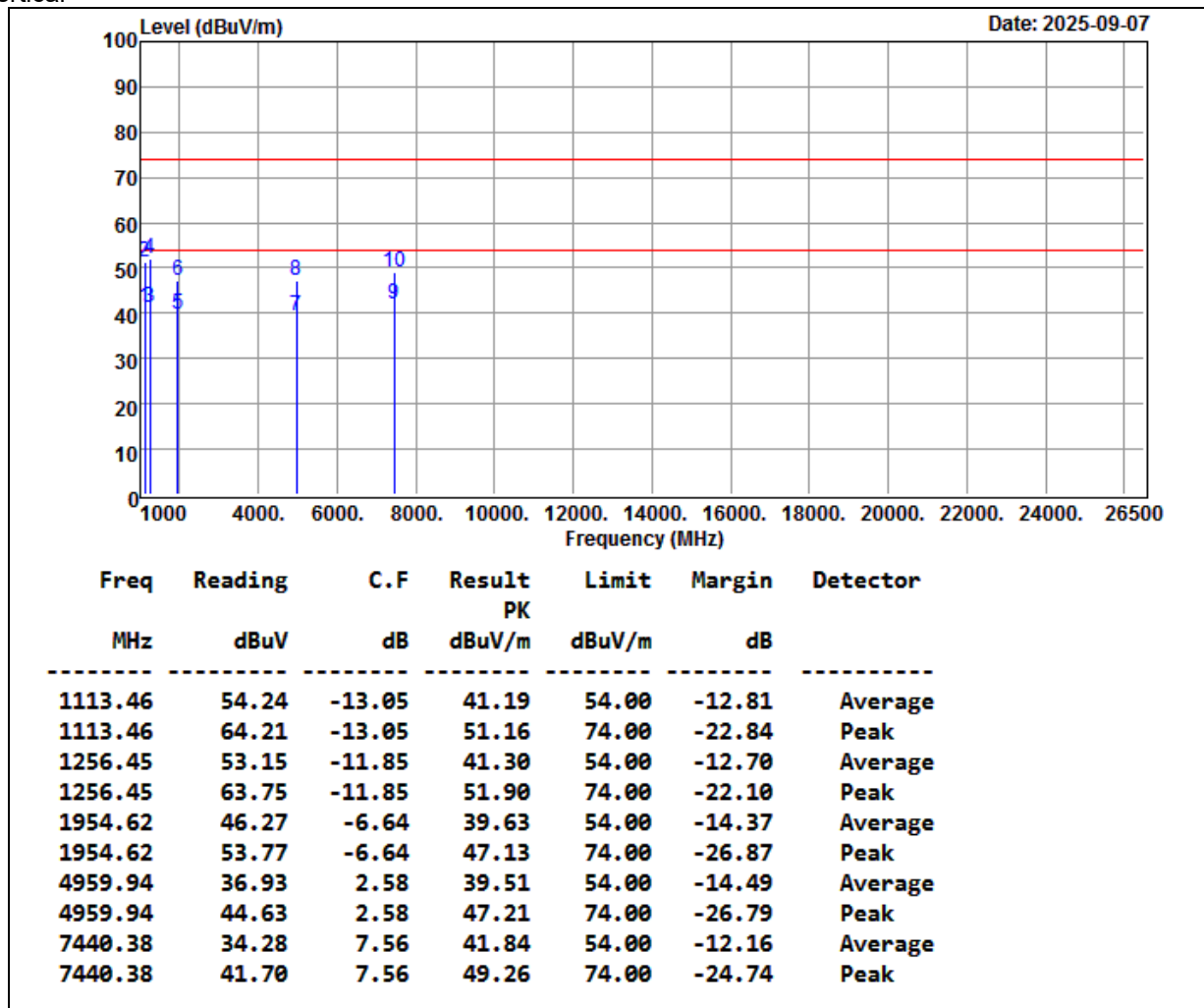


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Vertical

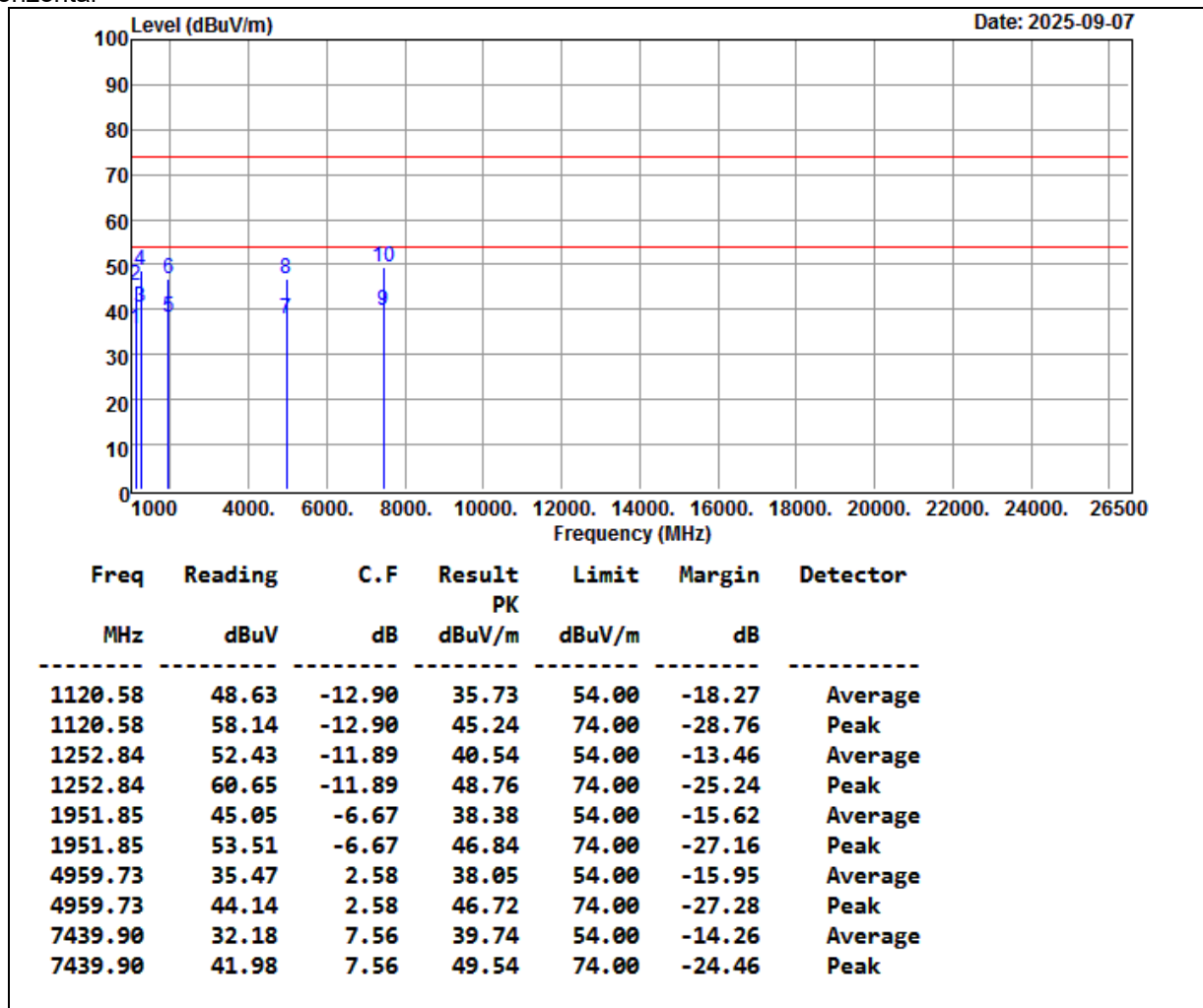


REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

Product Name	TURNTABLE	Test Date	2025/09/07
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Horizontal



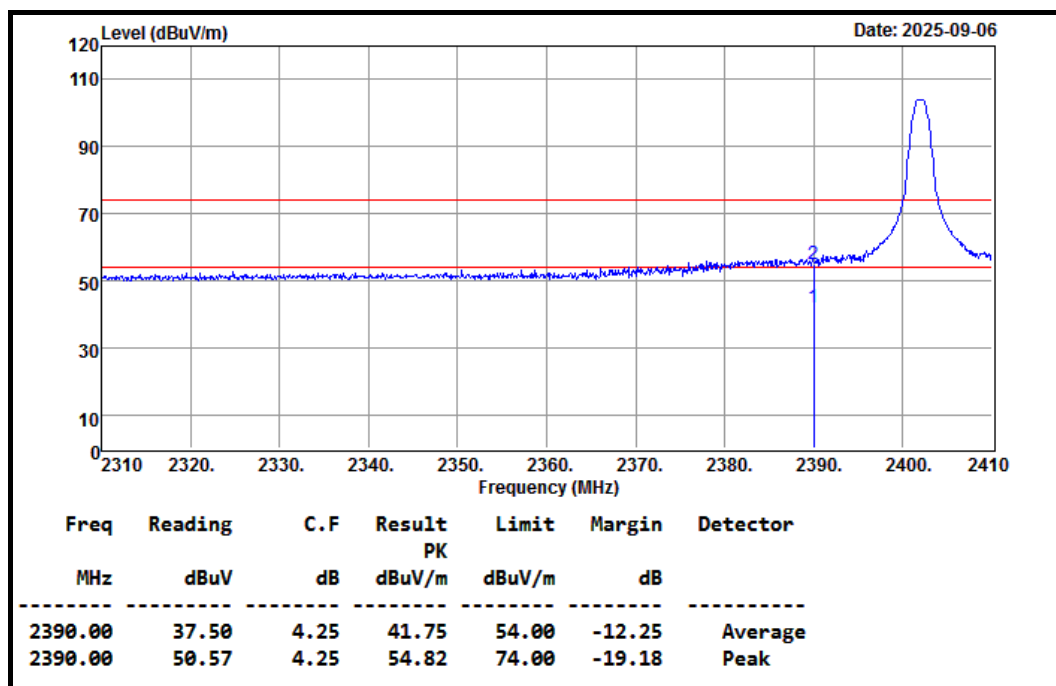
REMARK:

1. Spectrum analyzer setting Peak: RBW=1MHz, VBW=3MHz, Average: RBW=1MHz, VBW $\geq$ 1/T
2. C.F=Antenna Factor+Cable Loss-Preamplifier gain+2.4GHz~2.5GHz Filter Insertion Loss
3. The result basic equation calculation is as follow: Result = Reading + C.F, Margin = Result-Limit
4. The other emission levels were 10dB below the limit
5. The test distance is 3m.

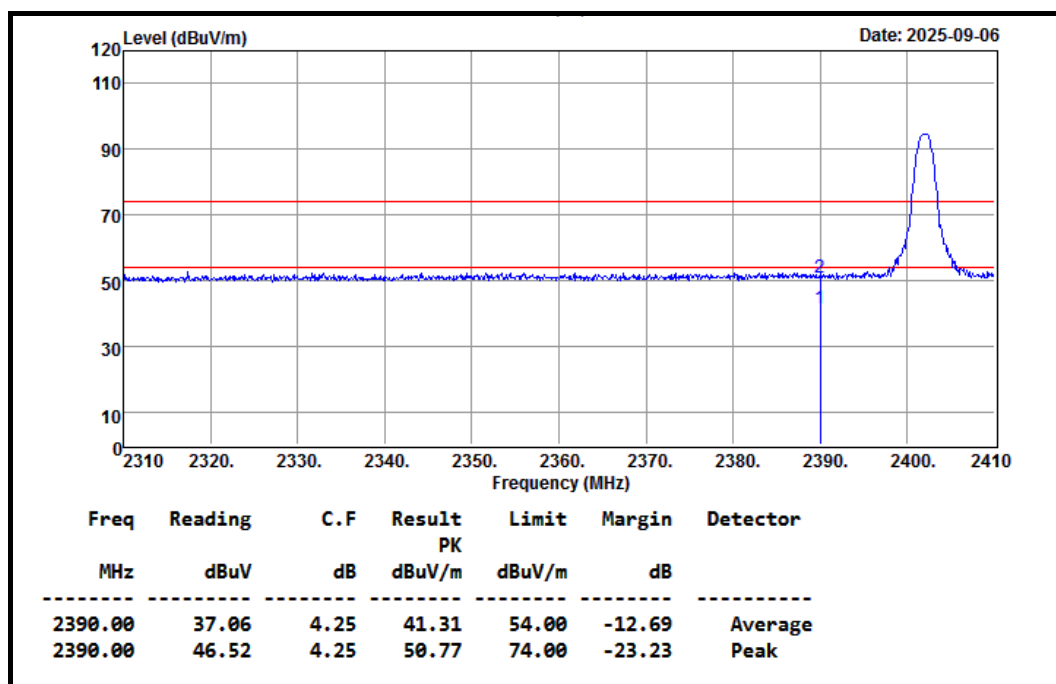
8.8.4 RESTRICTED BAND EDGES

Product Name	TURNTABLE	Test Date	2025/09/06
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / GFSK	TEMP& Humidity	25.2°C, 43%

Horizontal

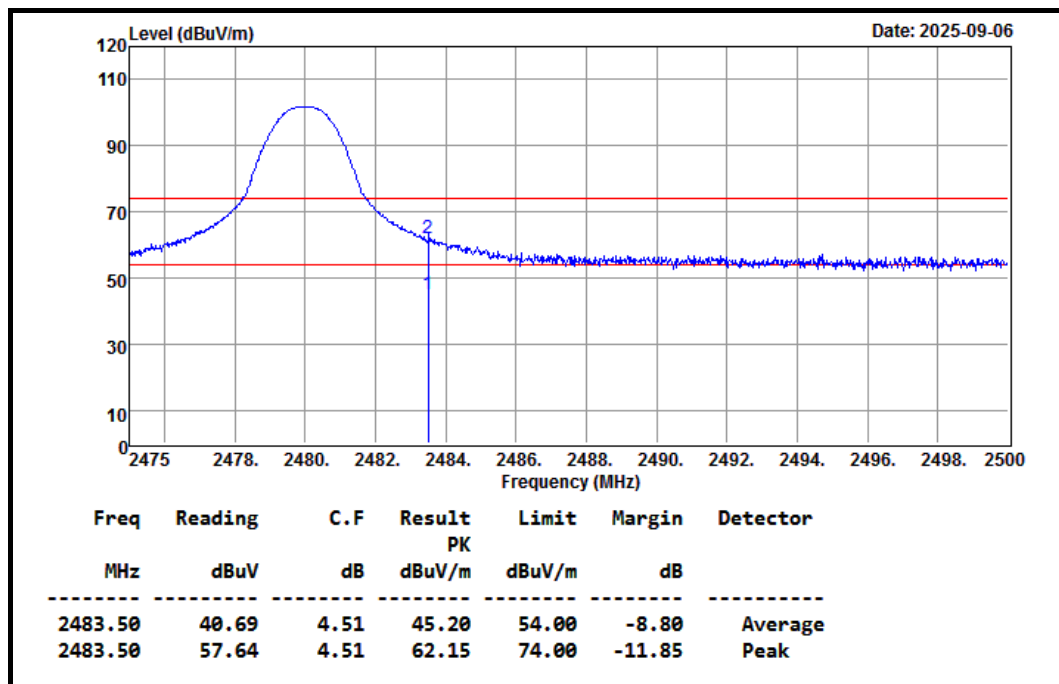


Vertical

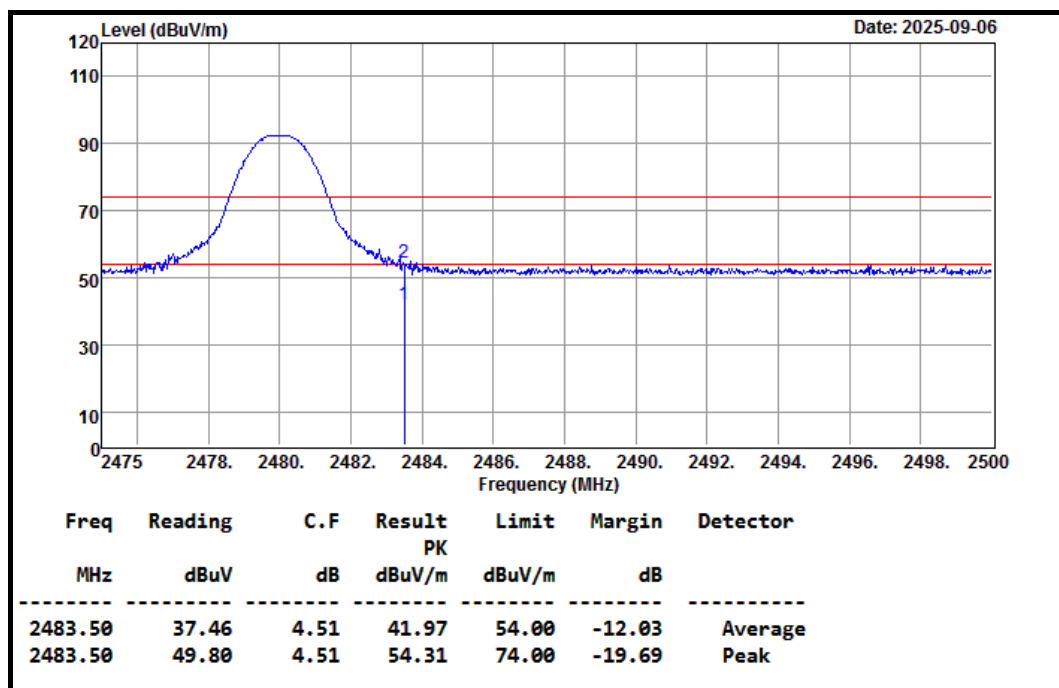


Product Name	TURNTABLE	Test Date	2025/09/06
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / GFSK	TEMP& Humidity	25.2°C, 43%

Horizontal

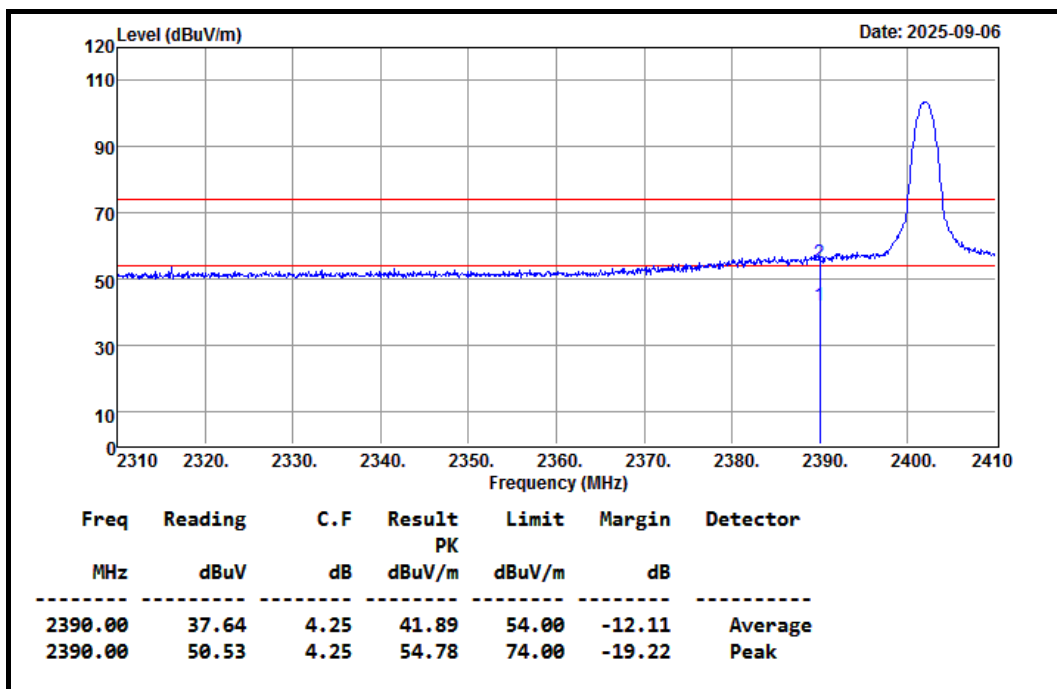


Vertical

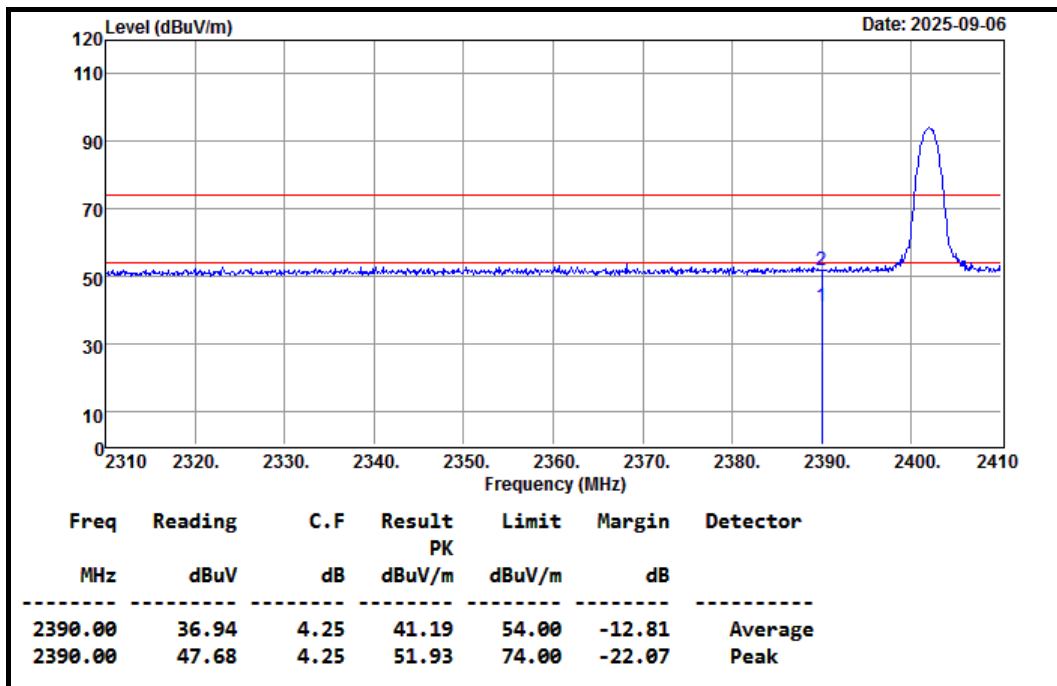


Product Name	TURNTABLE	Test Date	2025/09/06
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH Low TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Horizontal

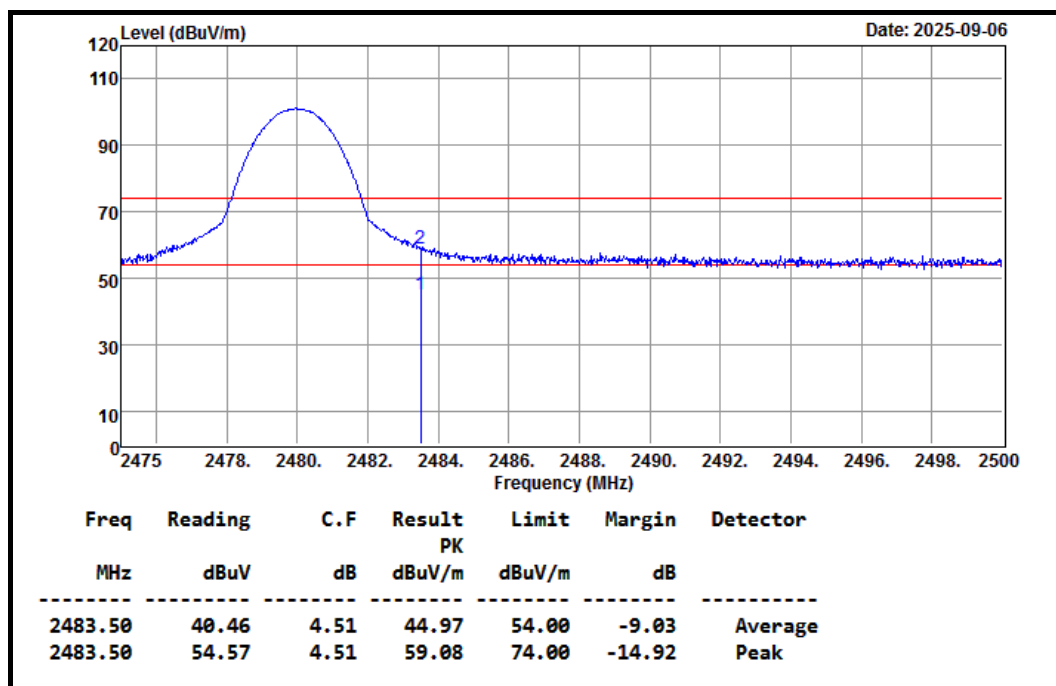


Vertical

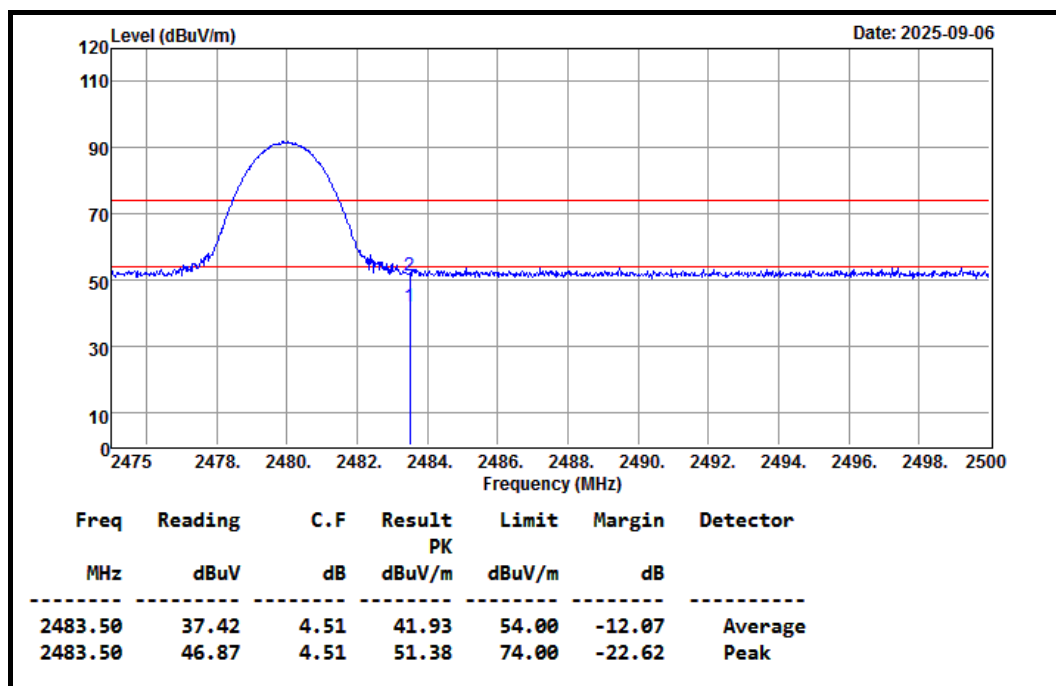


Product Name	TURNTABLE	Test Date	2025/09/06
Model	DP-500BT	Test By	Ted Huang
Test Mode	CH High TX / 8-DPSK	TEMP& Humidity	25.2°C, 43%

Horizontal



Vertical



8.9 POWERLINE CONDUCTED EMISSIONS

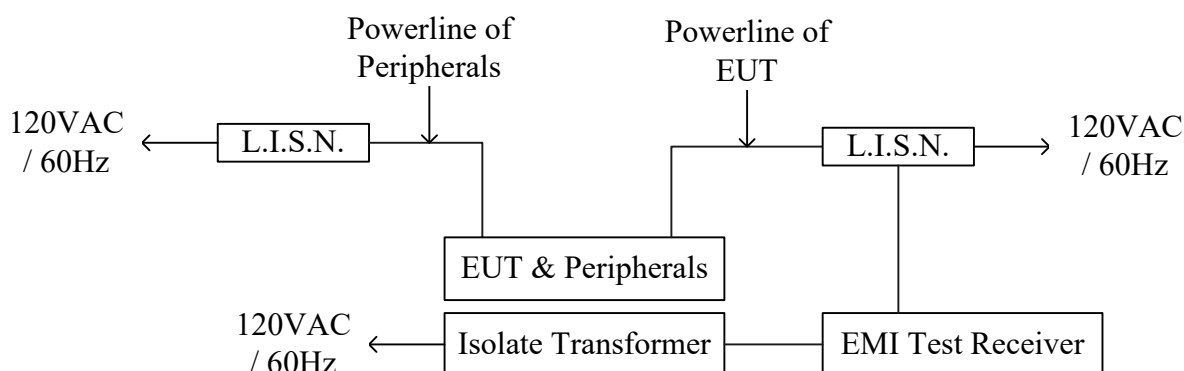
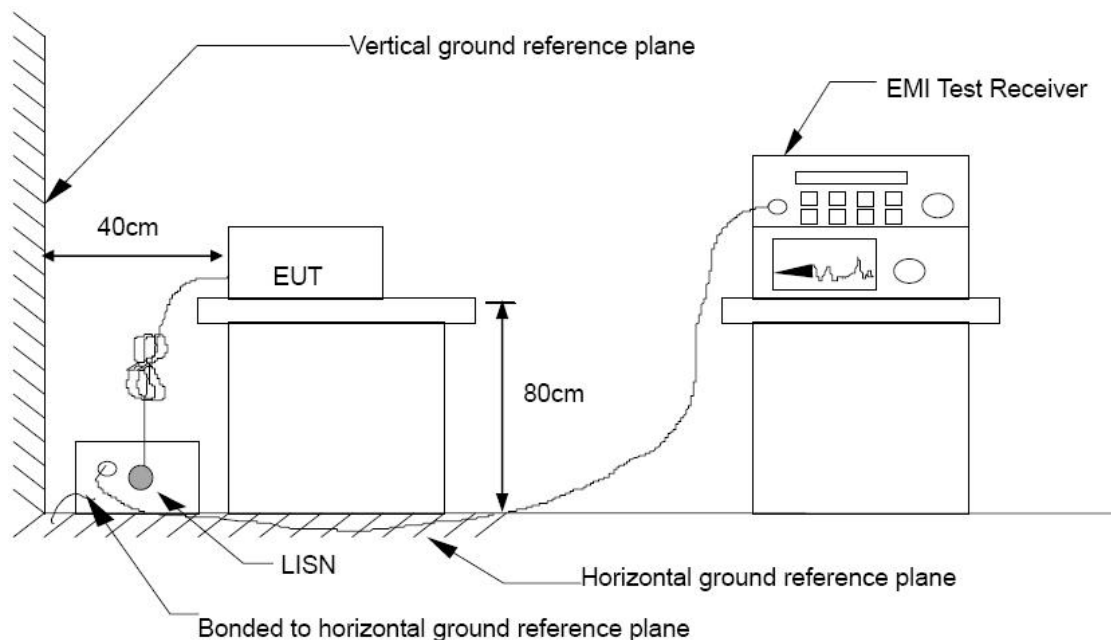
LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ v)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.5 - 5	56	46
5 - 30	60	50

TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.10 : 2013.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

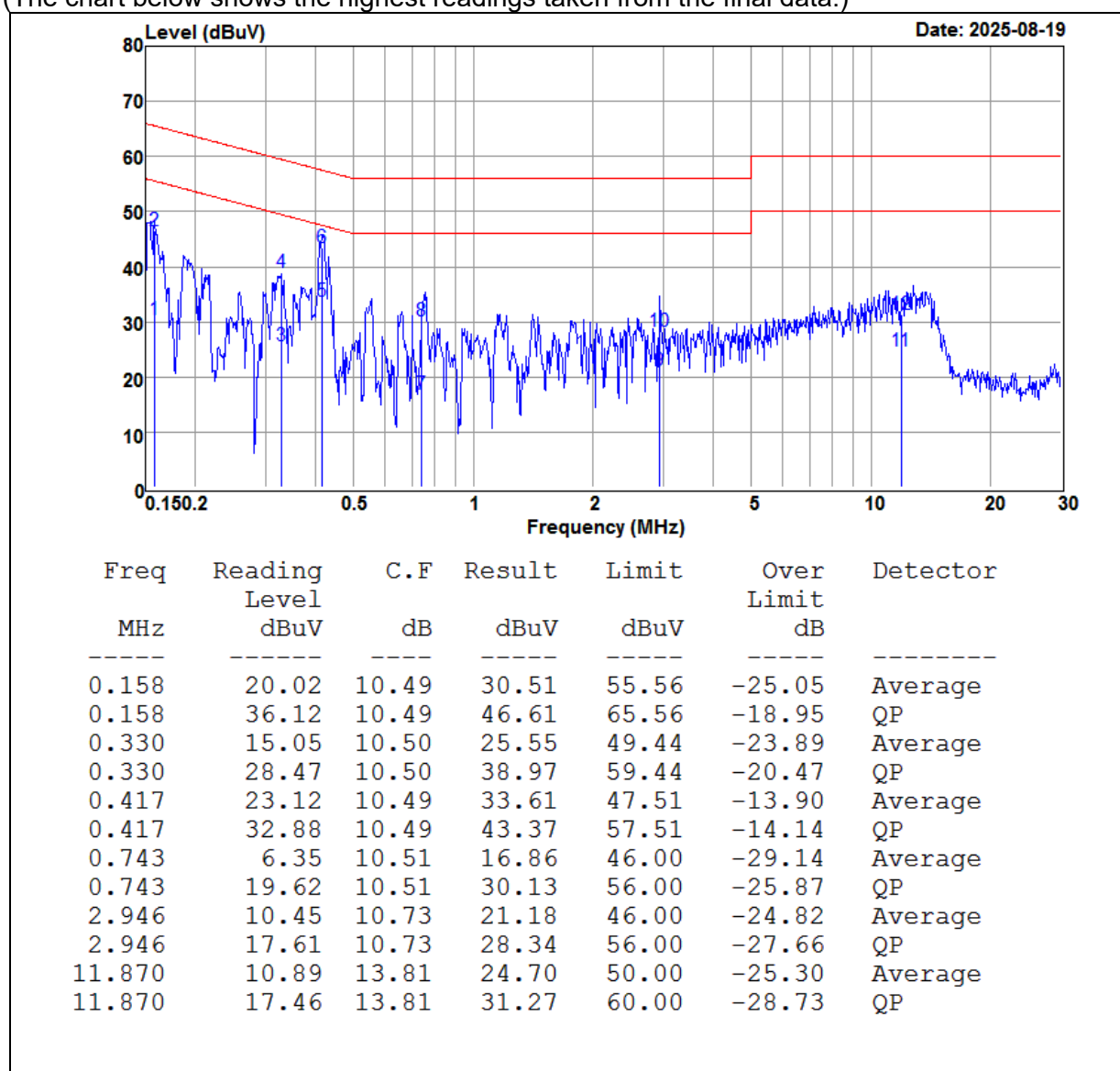
TEST RESULTS

Test Voltage: AC 120V, 60Hz

Model No.	DP-500BT	Test Mode	Normal Operation
Environmental Conditions	24.1°C, 46% RH	Resolution Bandwidth	9 kHz
Tested by	Joe Lin		

LINE

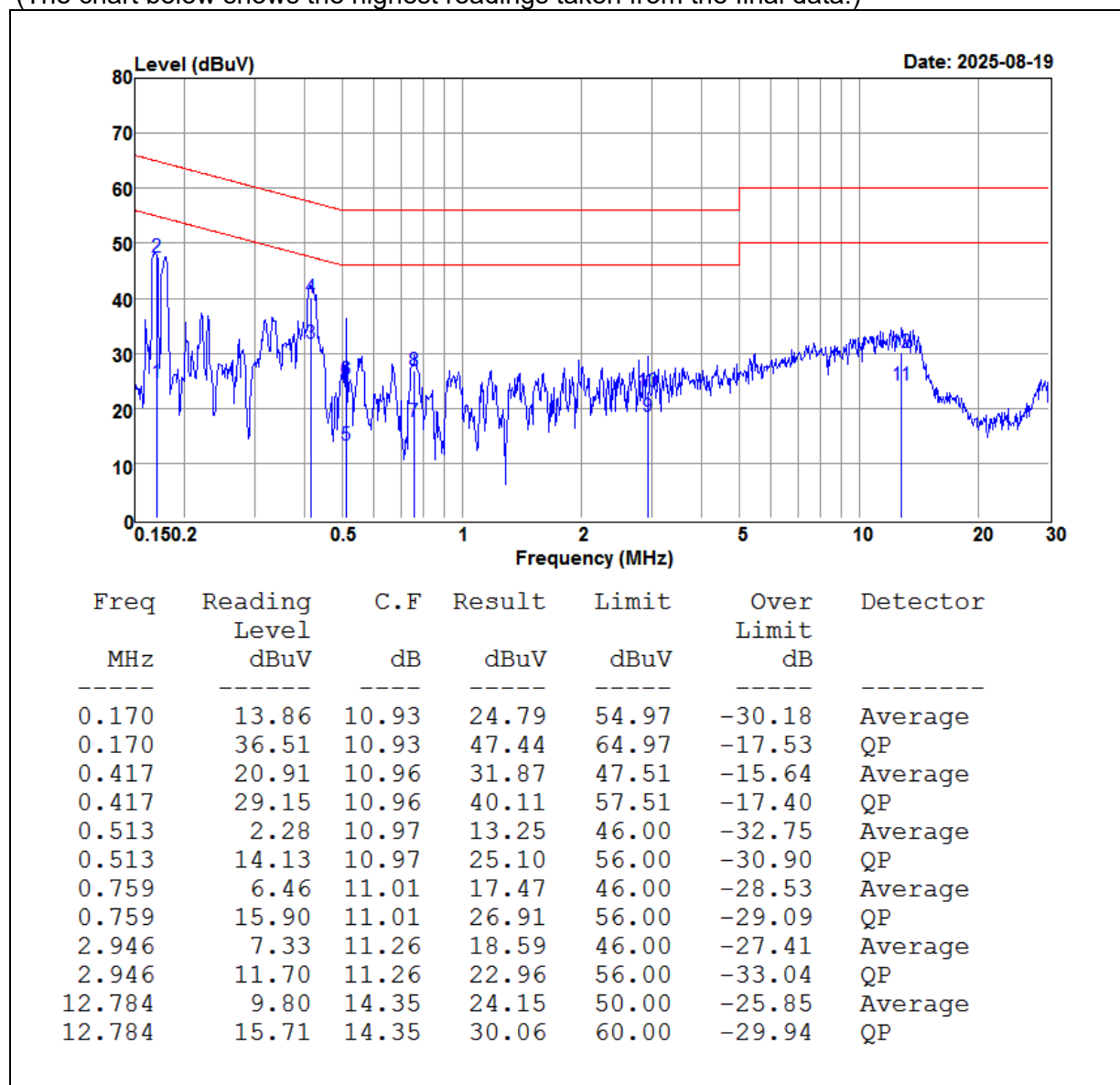
(The chart below shows the highest readings taken from the final data.)



Model No.	DP-500BT	Test Mode	Normal Operation
Environmental Conditions	24.1°C, 46% RH	Resolution Bandwidth	9 kHz
Tested by	Joe Lin		

NEUTRAL

(The chart below shows the highest readings taken from the final data.)



=== END of Report ===