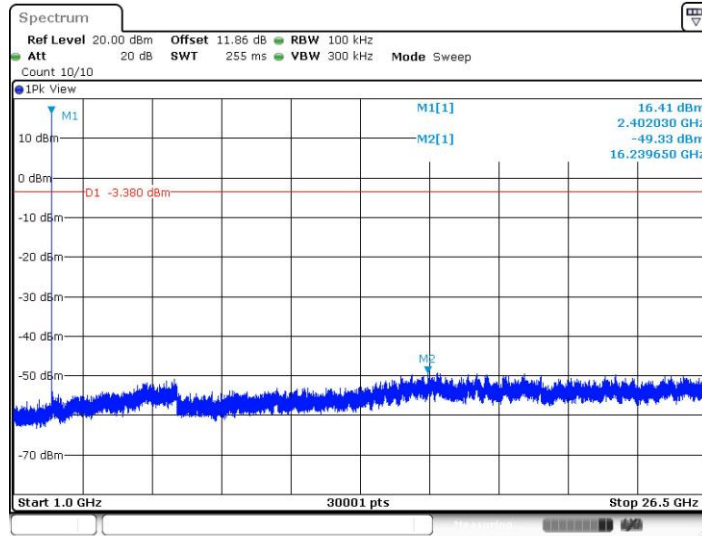




DH5\_Ant3\_2402\_1000~26500



Date: 26.JUN.2023 23:14:39

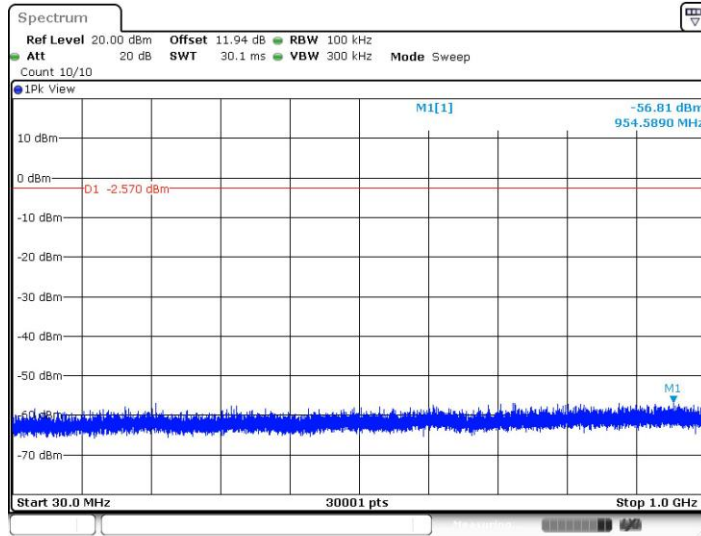
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Date: 26.JUN.2023 23:15:27

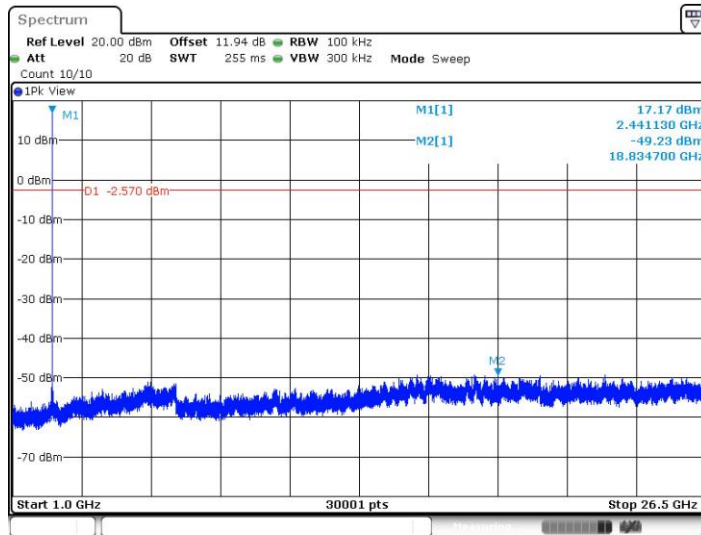


DH5\_Ant3\_2441\_30~1000



Date: 26.JUN.2023 23:15:33

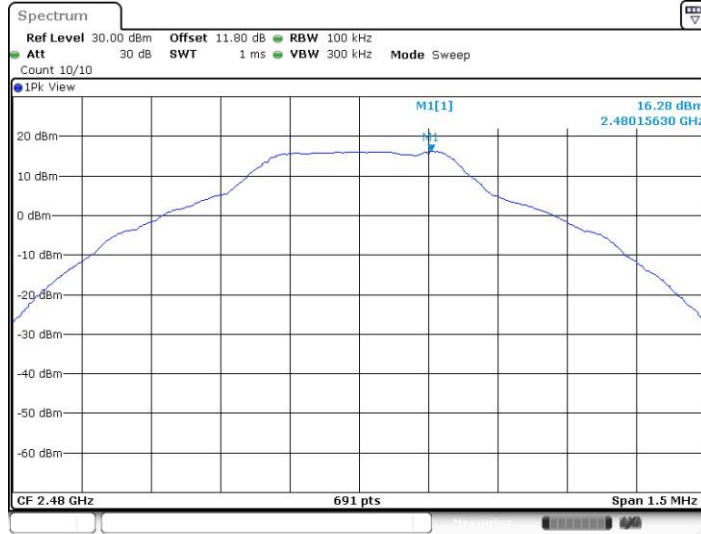
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Date: 26.JUN.2023 23:15:50

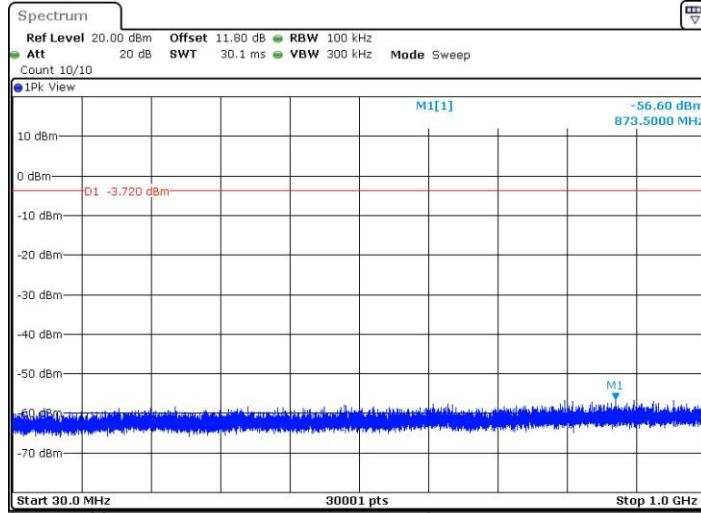


DH5\_Ant3\_2480\_0~Reference



Date: 26.JUN.2023 23:17:52

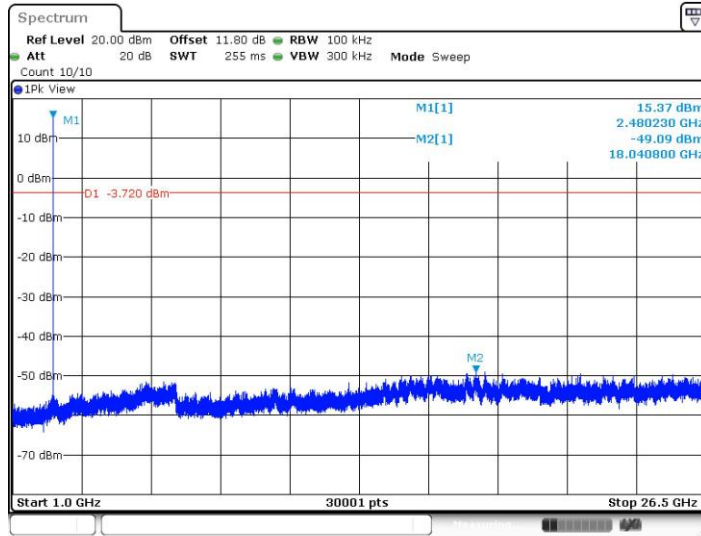
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Date: 26.JUN.2023 23:17:57

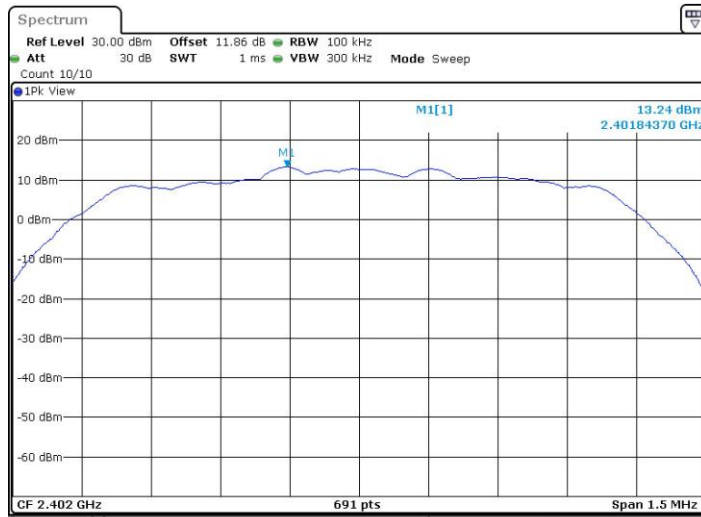


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Date: 26.JUN.2023 23:18:15

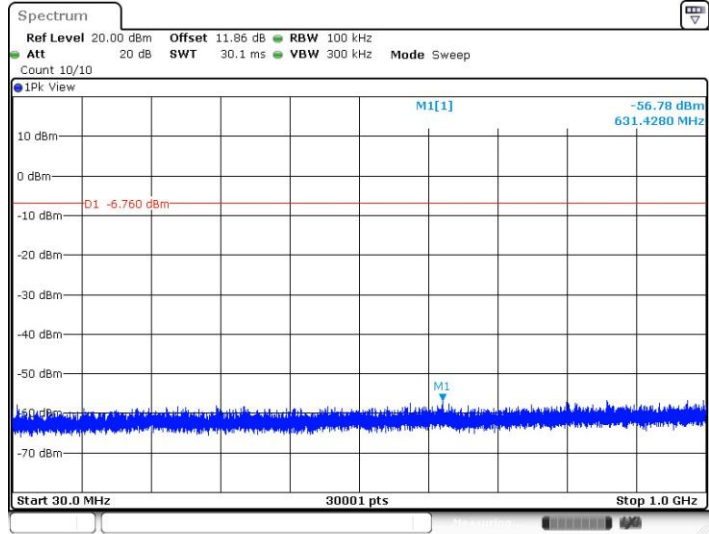
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Date: 26.JUN.2023 23:36:57

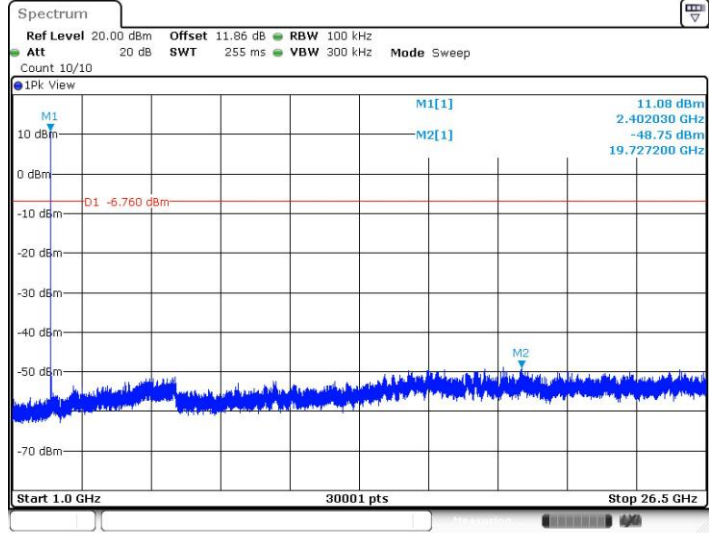


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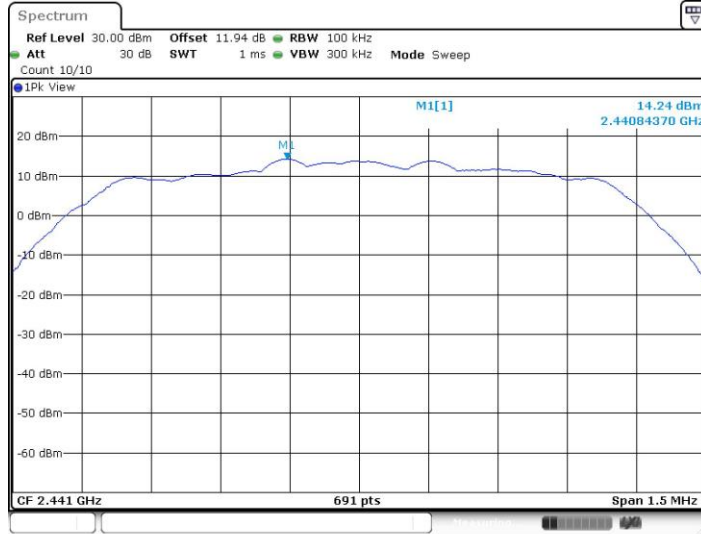
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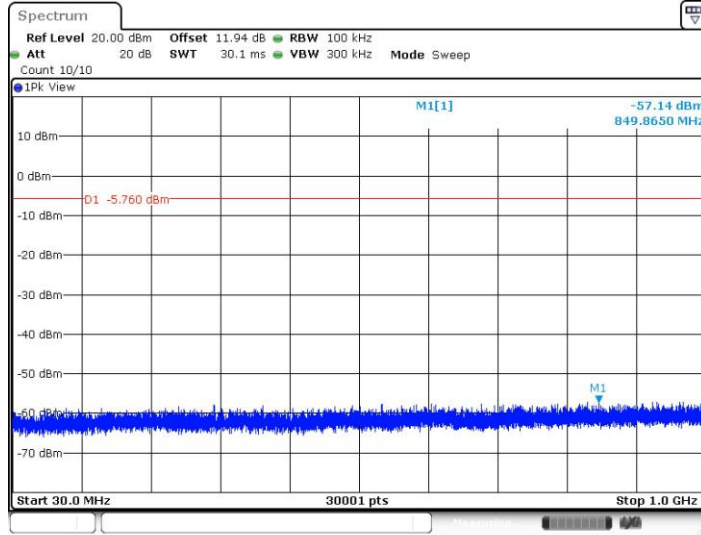


2DH1\_Ant3\_2441\_0~Reference



Date: 26.JUN.2023 23:55:47

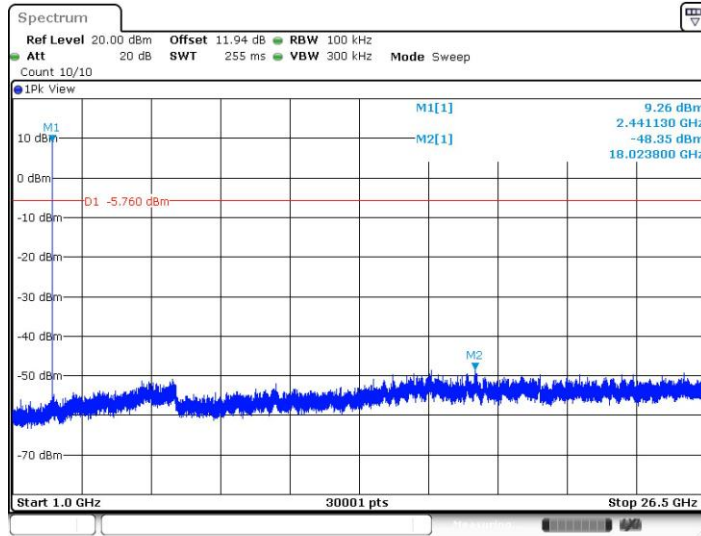
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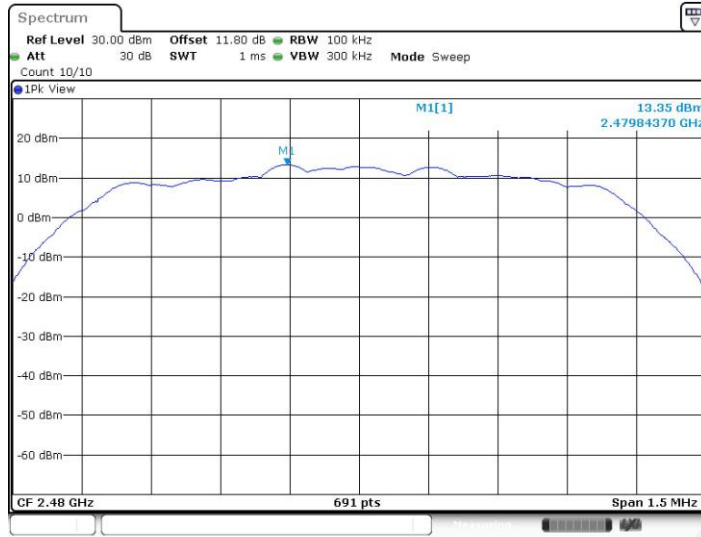


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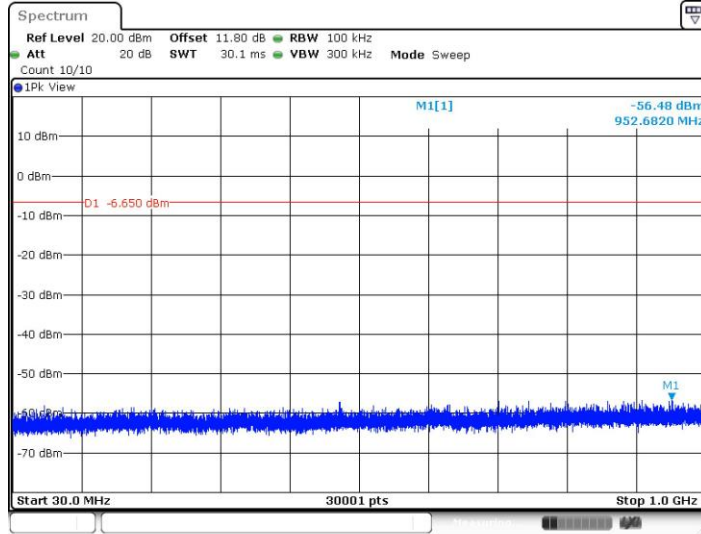
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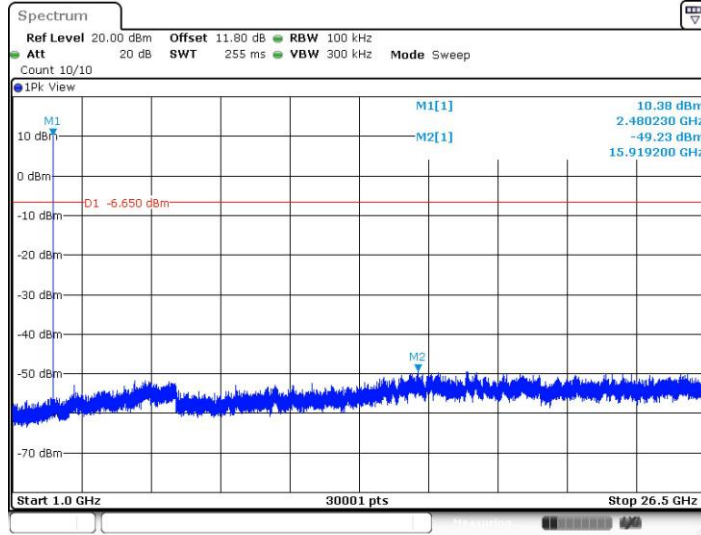
Date: 26.JUN.2023 23:56:52



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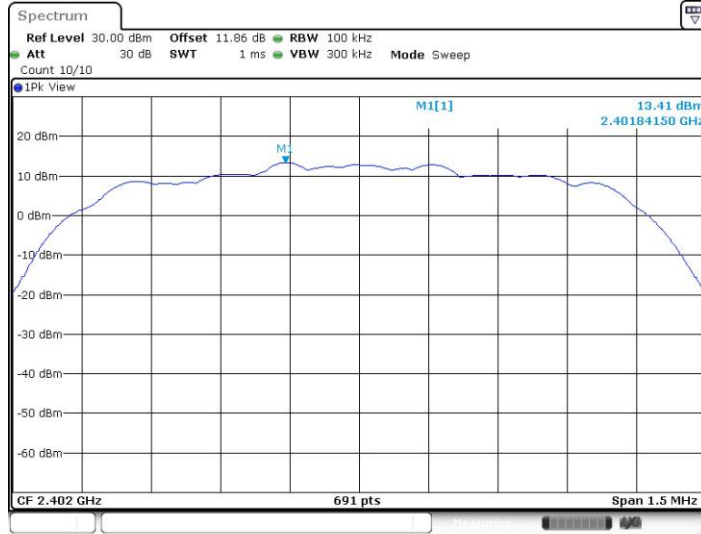
2DH1\_Ant3\_2480\_1000~26500





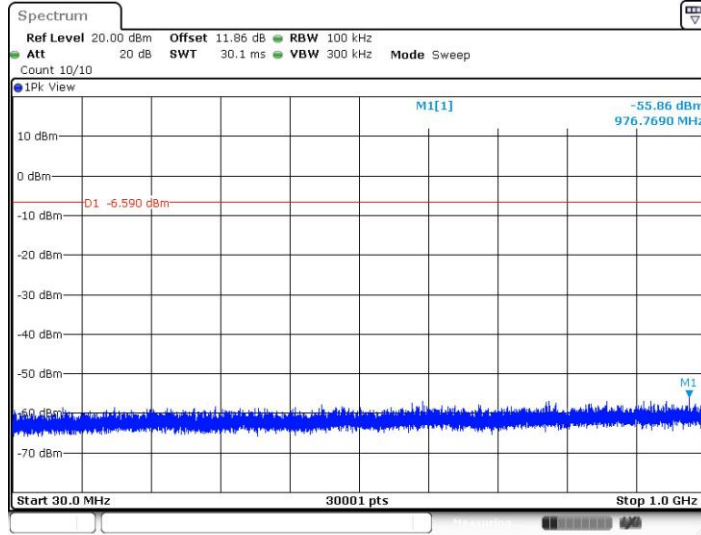


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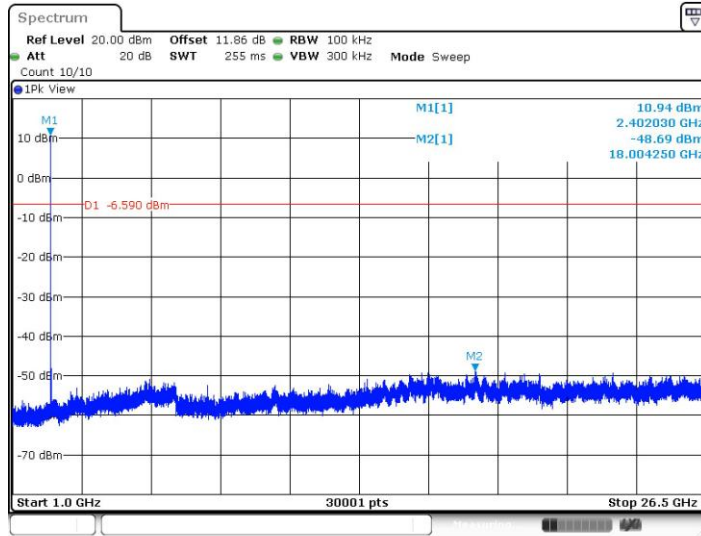
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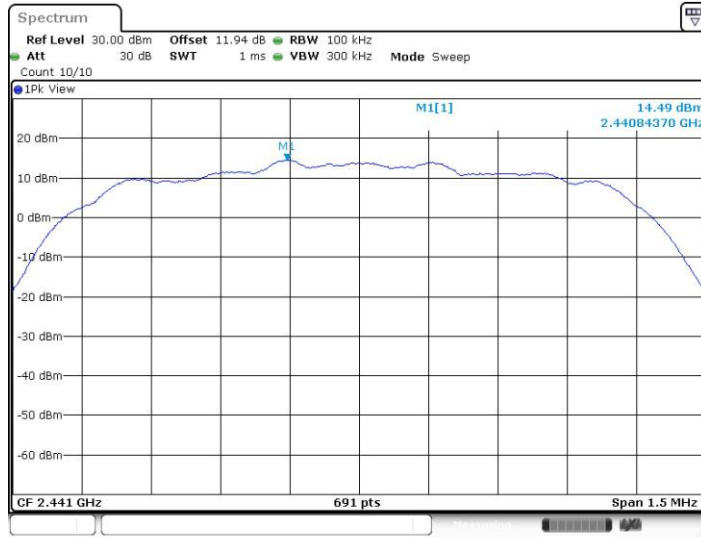


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Date: 27.JUN.2023 00:33:20

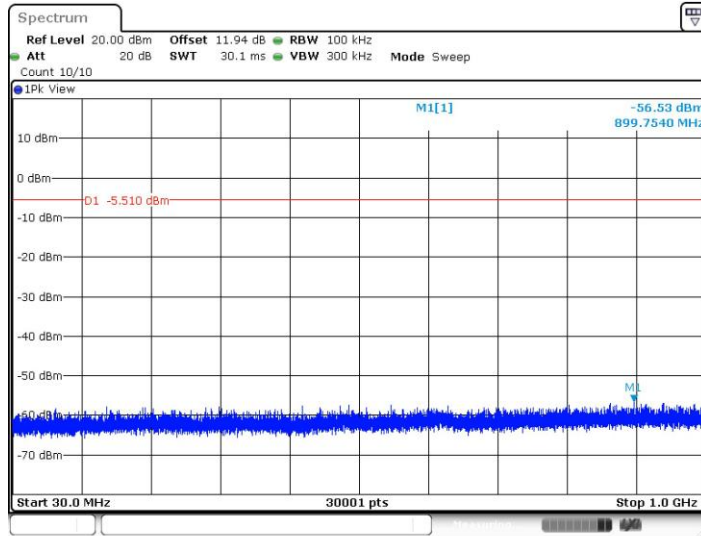
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Date: 27.JUN.2023 00:33:50

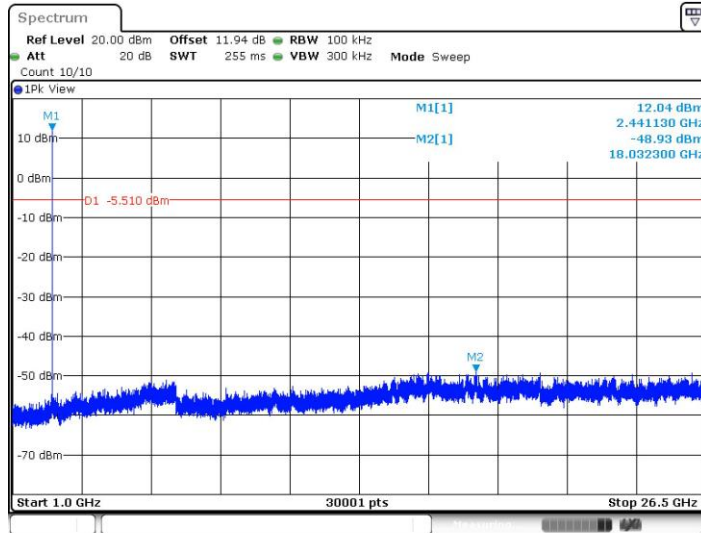


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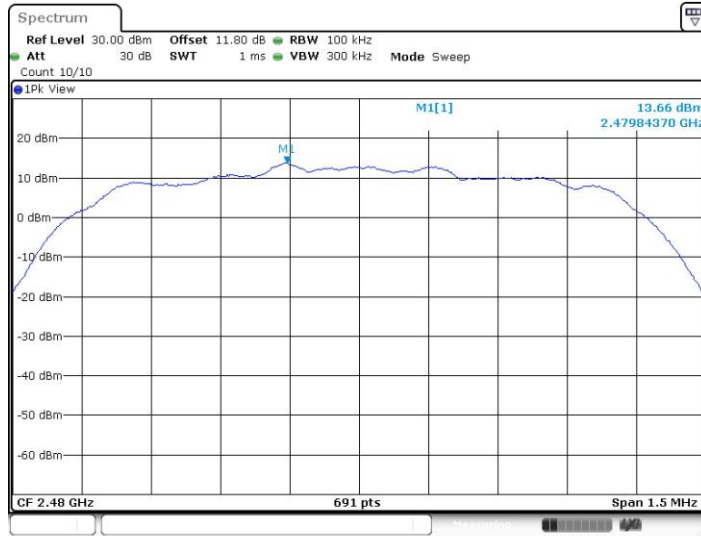
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Date: 27.JUN.2023 00:34:14

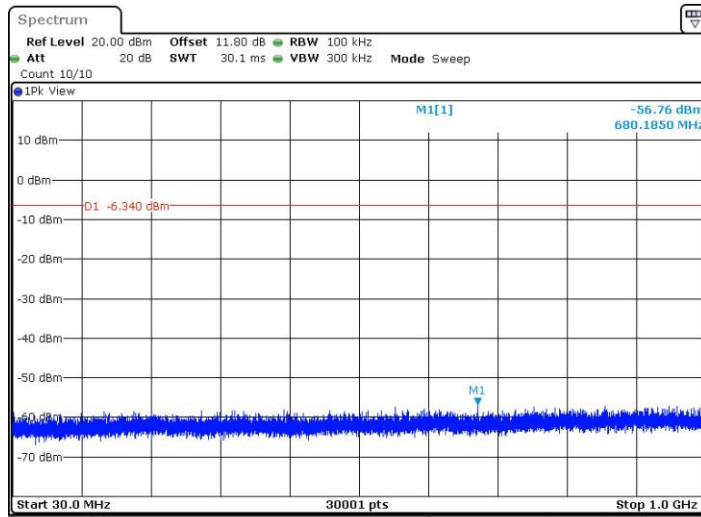


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Date: 27.JUN.2023 00:34:52

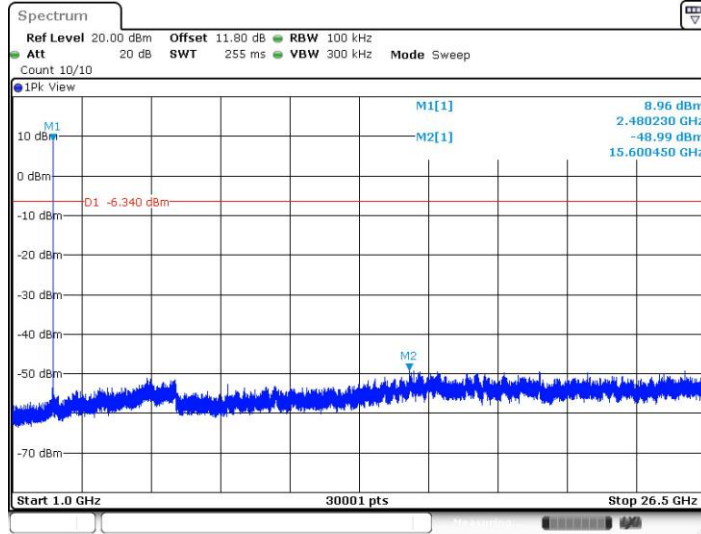
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Date: 27.JUN.2023 00:34:58



3DH1\_Ant3\_2480\_1000~26500

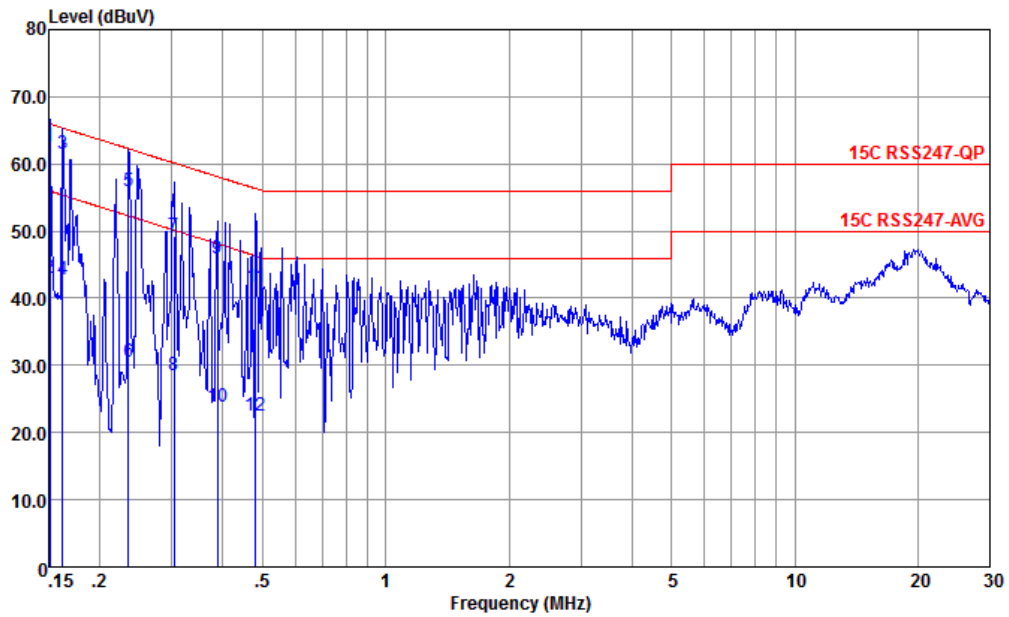


Date: 27.JUN.2023 00:35:15



## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

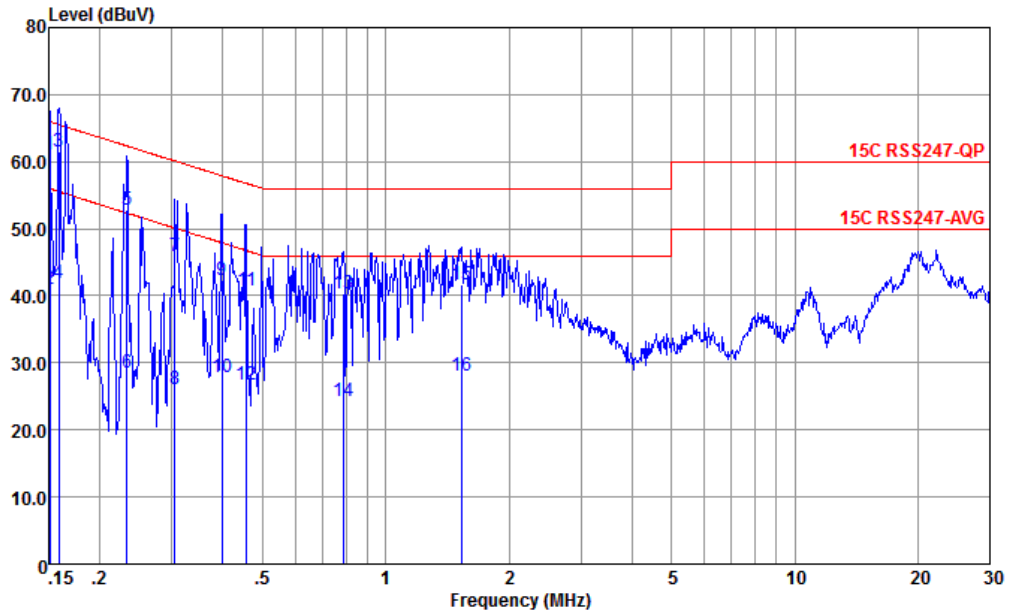


Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.151	62.58	-3.38	65.96	52.10	0.05	10.43	QP
2	0.151	43.08	-12.88	55.96	32.60	0.05	10.43	Average
3	0.162	61.57	-3.77	65.34	51.10	0.04	10.43	QP
4	0.162	42.77	-12.57	55.34	32.30	0.04	10.43	Average
5	0.235	55.93	-6.33	62.26	45.51	0.03	10.39	QP
6	0.235	30.63	-21.63	52.26	20.21	0.03	10.39	Average
7	0.303	49.19	-10.96	60.15	38.80	0.04	10.35	QP
8	0.303	28.59	-21.56	50.15	18.20	0.04	10.35	Average
9	0.387	45.81	-12.31	58.12	35.50	0.00	10.31	QP
10	0.387	23.81	-24.31	48.12	13.50	0.00	10.31	Average
11	0.481	41.70	-14.62	56.32	31.50	-0.03	10.23	QP
12	0.481	22.40	-23.92	46.32	12.20	-0.03	10.23	Average



Test Engineer :	Amos Zhang	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.151	61.07	-4.89	65.96	50.60	0.04	10.43	QP
2	0.151	41.07	-14.89	55.96	30.60	0.04	10.43	Average
3 *	0.159	61.57	-3.95	65.52	51.10	0.04	10.43	QP
4	0.159	41.97	-13.55	55.52	31.50	0.04	10.43	Average
5	0.233	52.91	-9.44	62.35	42.50	0.02	10.39	QP
6	0.233	28.61	-23.74	52.35	18.20	0.02	10.39	Average
7	0.305	45.81	-14.29	60.10	35.50	-0.04	10.35	QP
8	0.305	26.11	-23.99	50.10	15.80	-0.04	10.35	Average
9	0.398	42.44	-15.46	57.90	32.20	-0.06	10.30	QP
10	0.398	27.74	-20.16	47.90	17.50	-0.06	10.30	Average
11	0.456	40.68	-16.08	56.76	30.49	-0.06	10.25	QP
12	0.456	26.78	-19.98	46.76	16.59	-0.06	10.25	Average
13	0.788	40.26	-15.74	56.00	30.20	-0.08	10.14	QP
14	0.788	24.26	-21.74	46.00	14.20	-0.08	10.14	Average
15	1.527	41.77	-14.23	56.00	31.80	-0.11	10.08	QP
16	1.527	28.17	-17.83	46.00	18.20	-0.11	10.08	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



## Appendix C Radiated Spurious Emission Test Data

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	3	Bluetooth EDR_8-DPSK	00	2402	3Mbps	-	-
Mode 2	2400-2483.5	3	Bluetooth EDR_8-DPSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	3	Bluetooth EDR_8-DPSK	78	2480	3Mbps	-	-
Mode 4	2400-2483.5	3	Bluetooth EDR_8-DPSK	78	2480	3Mbps	-	LF

Note: Only the worst case has assessed LF mode to test.

### Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth EDR_8-DPSK	00	2386.18	48.10	74.00	-25.90	V	PEAK	Pass	Band Edge
1	Bluetooth EDR_8-DPSK	00	4804.00	40.67	74.00	-33.33	H	PEAK	Pass	Harmonic
2	Bluetooth EDR_8-DPSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth EDR_8-DPSK	39	7323.00	42.62	74.00	-31.38	V	PEAK	Pass	Harmonic
3	Bluetooth EDR_8-DPSK	78	2483.89	57.18	74.00	-16.82	V	PEAK	Pass	Band Edge
3	Bluetooth EDR_8-DPSK	78	4960.00	43.02	74.00	-30.98	H	PEAK	Pass	Harmonic
4	Bluetooth EDR_8-DPSK	78	56.19	35.21	40.00	-4.79	V	PEAK	Pass	LF





Mode	1																																																																																	
	Band Edge																																																																																	
	2400-2483.5_ Bluetooth EDR_8-DPSK_CH00_2402MHz																																																																																	
ANT	3																																																																																	
Pol.	Horizontal	Fundamental																																																																																
Peak Avg	<table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2383.71</td> <td>47.15</td> <td>74.00</td> <td>-26.85</td> <td>39.30</td> <td>31.67</td> <td>7.10</td> </tr> <tr> <td>2</td> <td>2383.71</td> <td>23.18</td> <td>54.00</td> <td>-30.82</td> <td>15.33</td> <td>31.67</td> <td>7.10</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	2383.71	47.15	74.00	-26.85	39.30	31.67	7.10	2	2383.71	23.18	54.00	-30.82	15.33	31.67	7.10	<table border="1"> <thead> <tr> <th>Limit</th> <th>Read</th> <th>Ant</th> <th>Cable</th> <th>Preamp</th> <th>Aux</th> <th>APos</th> <th>TPos</th> </tr> <tr> <th>Freq</th> <th>Level</th> <th>Line</th> <th>Margin</th> <th>Level</th> <th>Factor</th> <th>Loss</th> <th>Factor</th> </tr> <tr> <th>MHz</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>dBuV</th> <th>dB/m</th> <th>dB</th> <th>dB</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2402.00</td> <td>101.91</td> <td>-----</td> <td>-----</td> <td>93.91</td> <td>31.80</td> <td>7.12</td> </tr> <tr> <td>2</td> <td>2402.00</td> <td>77.12</td> <td>-----</td> <td>-----</td> <td>69.12</td> <td>31.80</td> <td>7.12</td> </tr> </tbody> </table>	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	1	2402.00	101.91	-----	-----	93.91	31.80	7.12	2	2402.00	77.12	-----	-----	69.12	31.80	7.12
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Note: Only the worst case has assessed 18G ~25GHz to test.



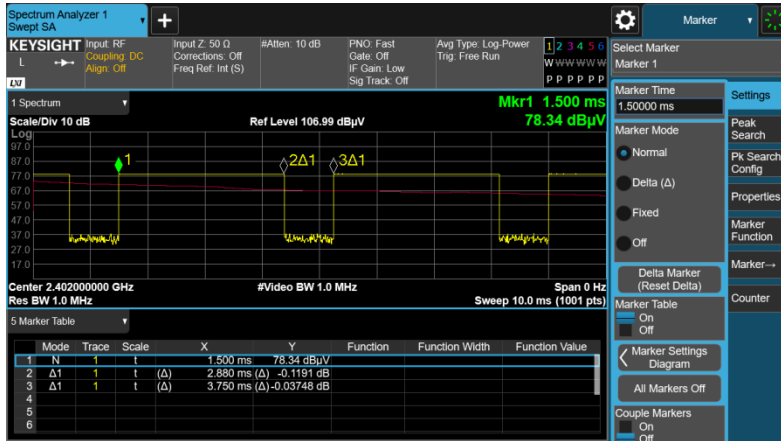
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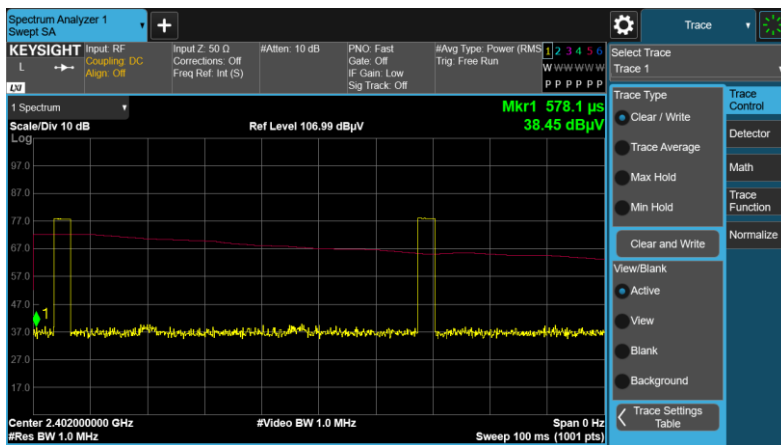


# Appendix D. Duty Cycle Plots

## 3DH5 on time (One Pulse) Plot on Channel 00



## 3DH5 on time (Count Pulses) Plot on Channel 00



**Note:**

1. Worst case Duty cycle = on time/100 milliseconds = 2 \* 2.88 / 100 = 5.76 %
2. Worst case Duty cycle correction factor = 20\*log(Duty cycle) = -24.79 dB
3. 3DH5 has the highest duty cycle worst case and is reported.