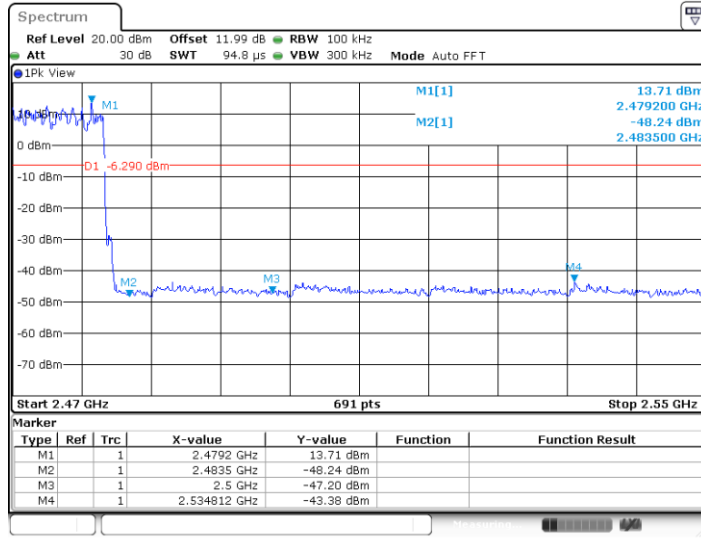


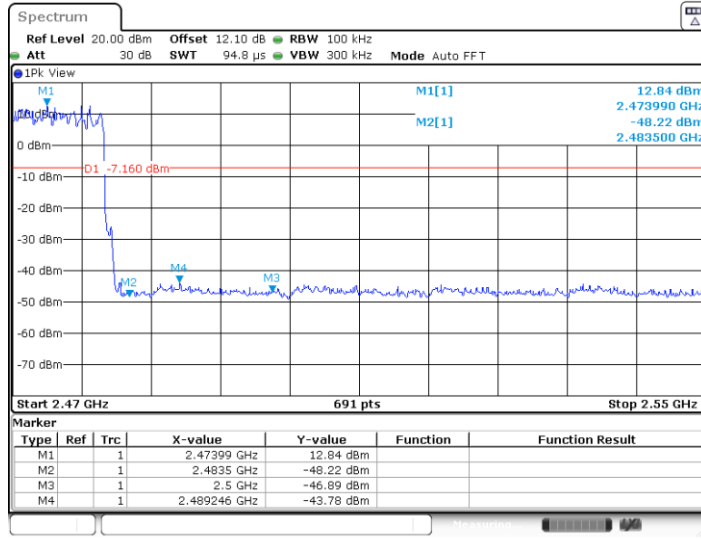


3DH5_Ant3_High_Hop_2480



Date: 21.FEB.2024 17:55:13

3DH5_Ant5_High_Hop_2480



Date: 23.FEB.2024 20:26:48



Conducted Spurious Emission

Test Result

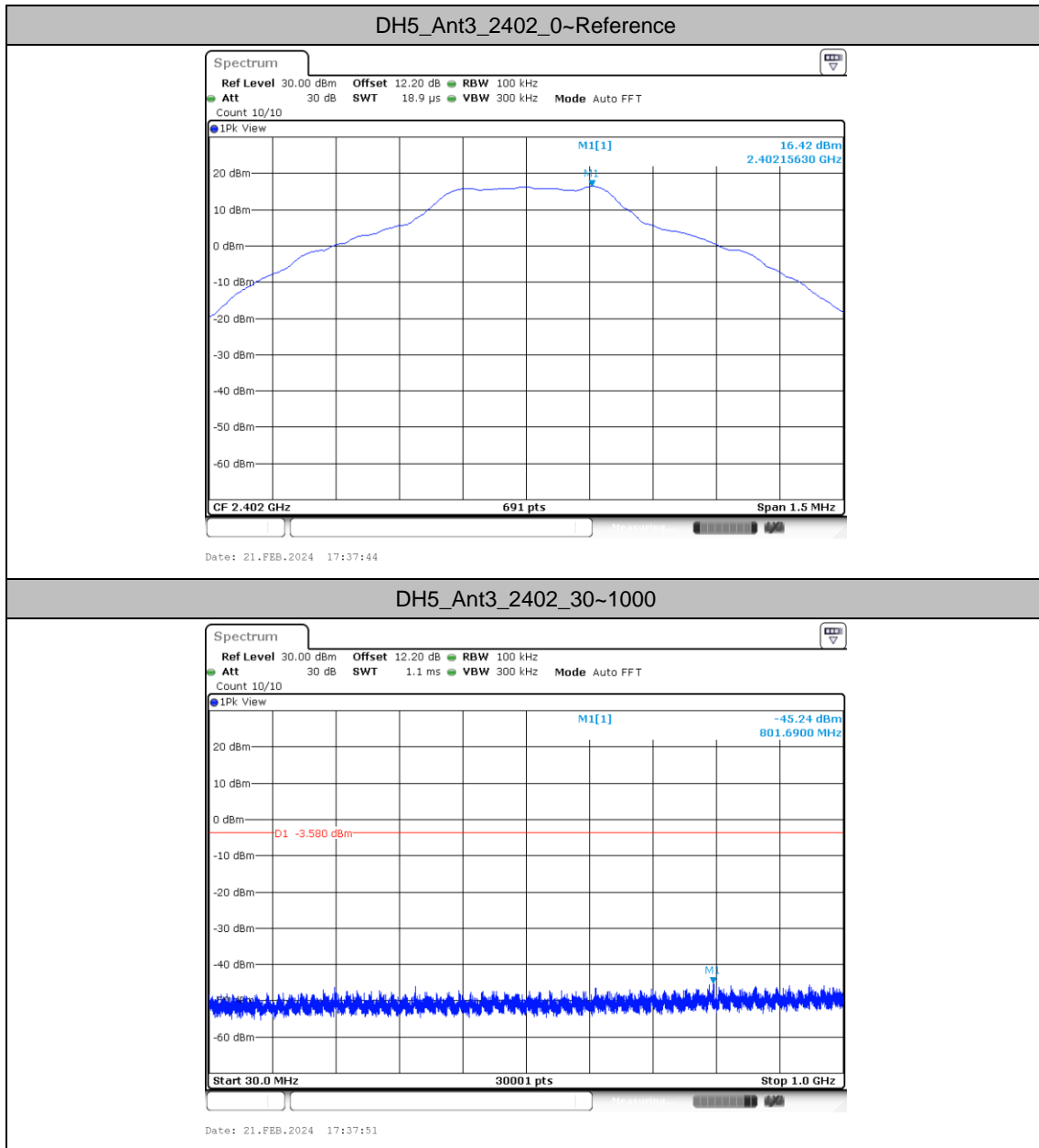
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant3	2402	Reference	16.42	16.42	---	PASS
			30~1000	16.42	-45.24	≤-3.58	PASS
			1000~26500	16.42	-35.57	≤-3.58	PASS
	Ant5	2402	Reference	16.97	16.97	---	PASS
			30~1000	16.97	-45.02	≤-3.03	PASS
			1000~26500	16.97	-35.97	≤-3.03	PASS
	Ant3	2441	Reference	17.34	17.34	---	PASS
			30~1000	17.34	-45.07	≤-2.66	PASS
			1000~26500	17.34	-36.18	≤-2.66	PASS
	Ant5	2441	Reference	17.53	17.53	---	PASS
			30~1000	17.53	-45.94	≤-2.47	PASS
			1000~26500	17.53	-35.34	≤-2.47	PASS
Ant3	2480	Reference	16.18	16.18	---	PASS	
		30~1000	16.18	-44.47	≤-3.82	PASS	
		1000~26500	16.18	-36.54	≤-3.82	PASS	
Ant5	2480	Reference	16.17	16.17	---	PASS	
		30~1000	16.17	-45.05	≤-3.83	PASS	
		1000~26500	16.17	-35.97	≤-3.83	PASS	
2DH5	Ant3	2402	Reference	13.65	13.65	---	PASS
			30~1000	13.65	-45.36	≤-6.35	PASS
			1000~26500	13.65	-35.83	≤-6.35	PASS
	Ant5	2402	Reference	14.38	14.38	---	PASS
			30~1000	14.38	-44.09	≤-5.62	PASS
			1000~26500	14.38	-36.68	≤-5.62	PASS
	Ant3	2441	Reference	14.51	14.51	---	PASS
			30~1000	14.51	-45.19	≤-5.49	PASS
			1000~26500	14.51	-35.69	≤-5.49	PASS
	Ant5	2441	Reference	14.92	14.92	---	PASS
			30~1000	14.92	-45.62	≤-5.08	PASS
			1000~26500	14.92	-34.71	≤-5.08	PASS
Ant3	2480	Reference	13.53	13.53	---	PASS	
		30~1000	13.53	-45.83	≤-6.47	PASS	
		1000~26500	13.53	-36.04	≤-6.47	PASS	
Ant5	2480	Reference	13.70	13.70	---	PASS	



			30~1000	13.70	-45.37	≤-6.3	PASS
			1000~26500	13.70	-36.77	≤-6.3	PASS
3DH5	Ant3	2402	Reference	13.74	13.74	---	PASS
			30~1000	13.74	-44.78	≤-6.26	PASS
			1000~26500	13.74	-34.5	≤-6.26	PASS
	Ant5	2402	Reference	14.45	14.45	---	PASS
			30~1000	14.45	-45.8	≤-5.55	PASS
			1000~26500	14.45	-34.42	≤-5.55	PASS
	Ant3	2441	Reference	14.61	14.61	---	PASS
			30~1000	14.61	-45.63	≤-5.39	PASS
			1000~26500	14.61	-35.66	≤-5.39	PASS
	Ant5	2441	Reference	14.98	14.98	---	PASS
			30~1000	14.98	-45.71	≤-5.02	PASS
			1000~26500	14.98	-36.19	≤-5.02	PASS
	Ant3	2480	Reference	13.57	13.57	---	PASS
			30~1000	13.57	-44.64	≤-6.43	PASS
			1000~26500	13.57	-35.42	≤-6.43	PASS
Ant5	2480	Reference	13.71	13.71	---	PASS	
		30~1000	13.71	-45.16	≤-6.29	PASS	
		1000~26500	13.71	-36.74	≤-6.29	PASS	

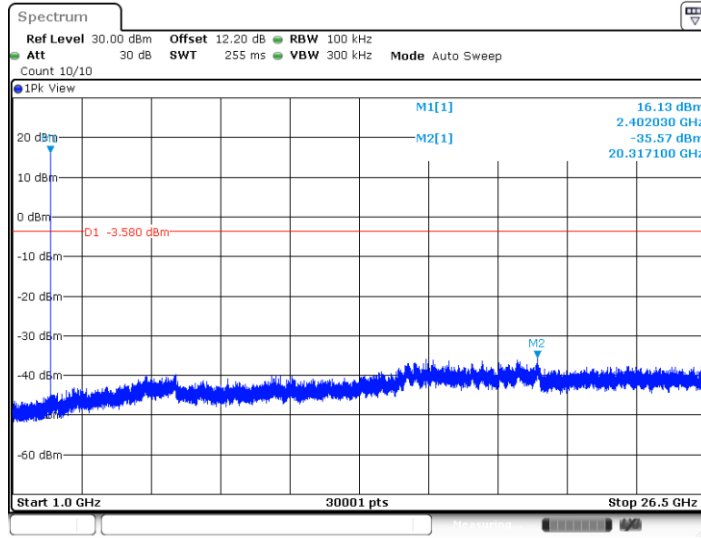


Test Graphs

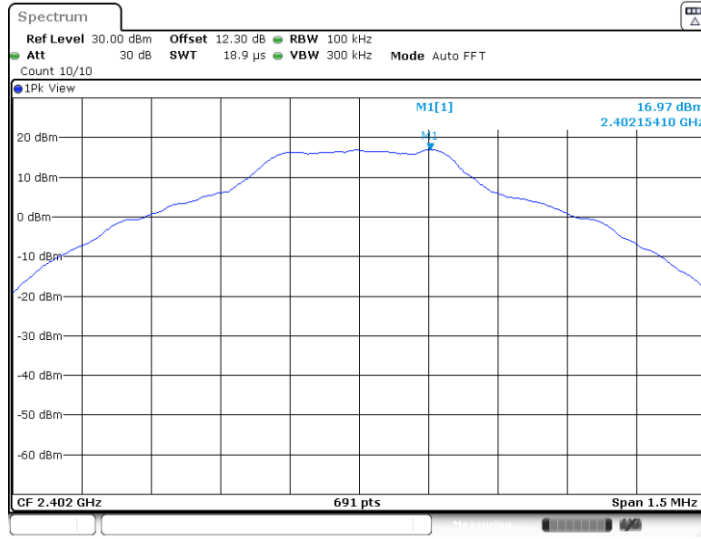




DH5_Ant3_2402_1000~26500

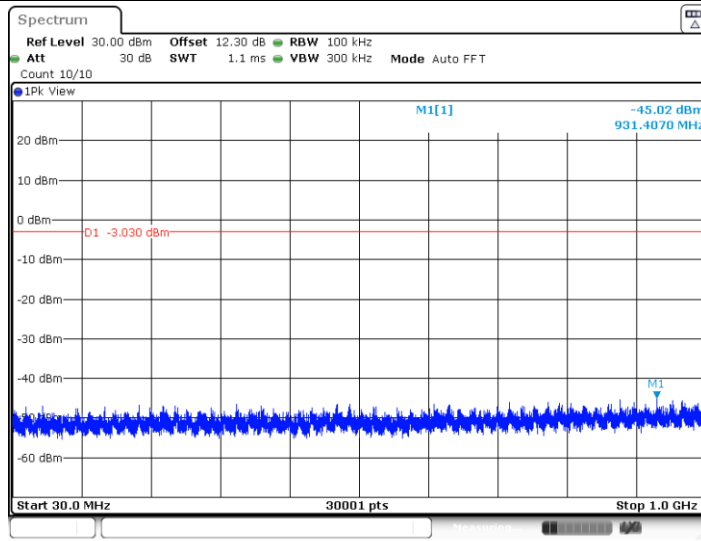


DH5_Ant5_2402_0~Reference



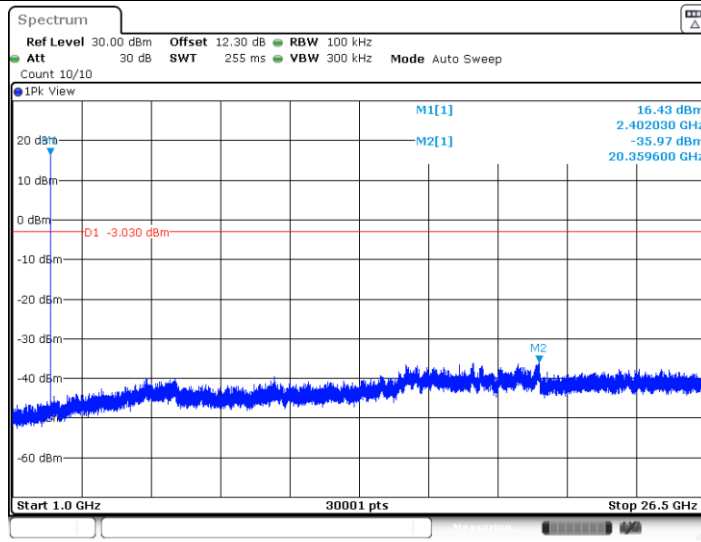


DH5_Ant5_2402_30~1000



Date: 23.FEB.2024 20:10:45

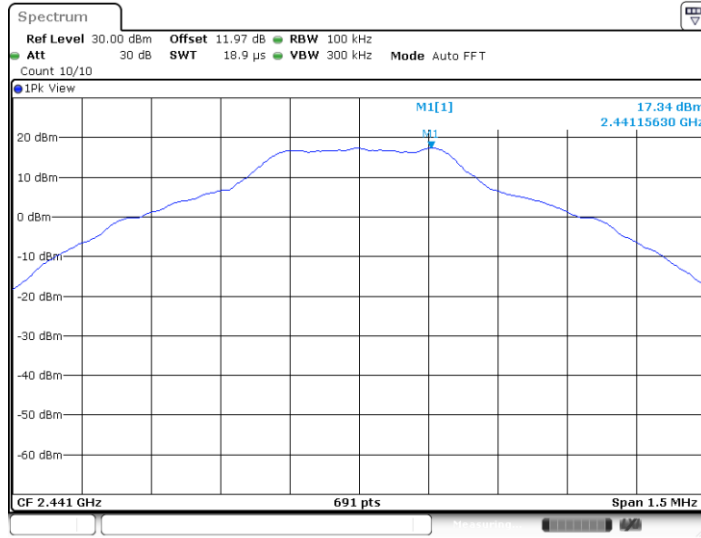
DH5_Ant5_2402_1000~26500



Date: 23.FEB.2024 20:11:08

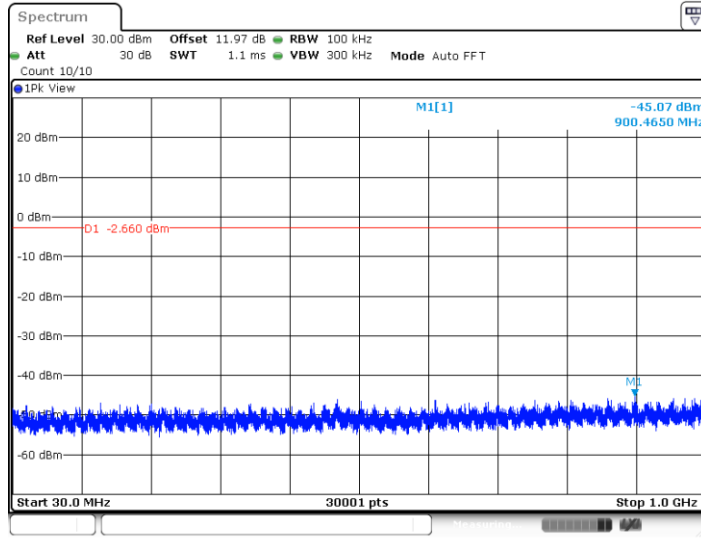


DH5_Ant3_2441_0~Reference



Date: 21.FEB.2024 17:38:48

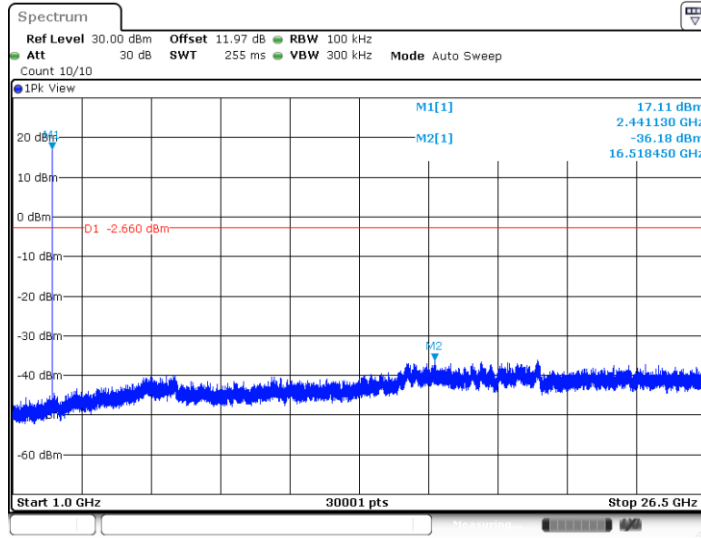
DH5_Ant3_2441_30~1000



Date: 21.FEB.2024 17:38:54

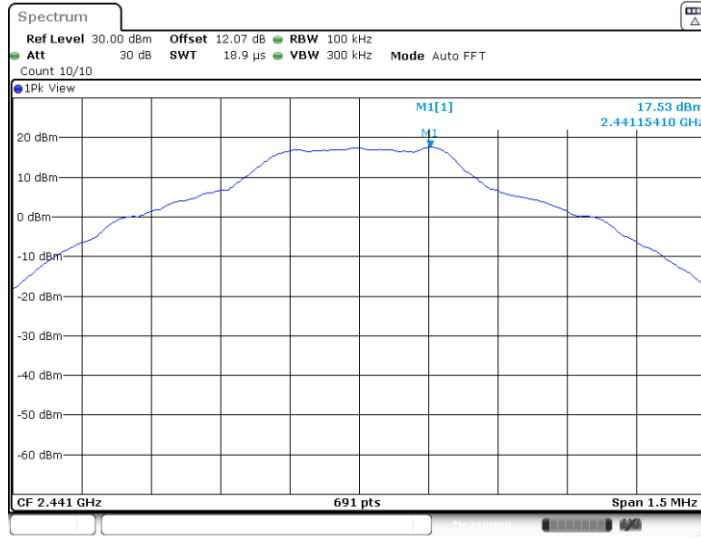


DH5_Ant3_2441_1000~26500



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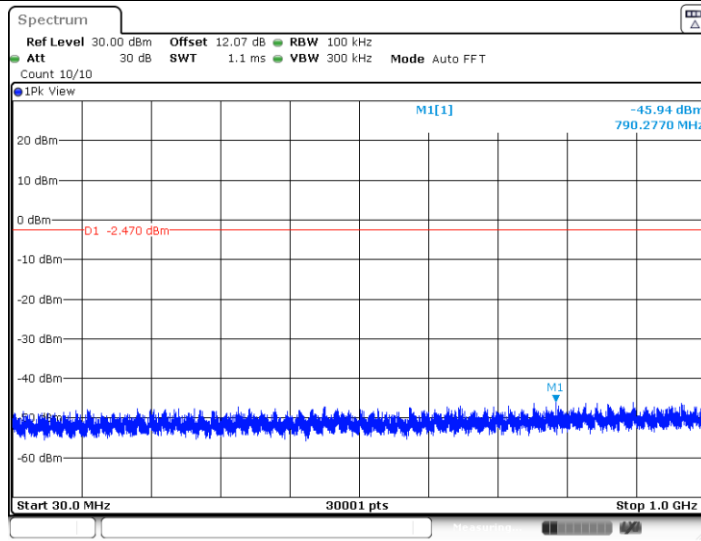
DH5_Ant5_2441_0~Reference



Date: 23.FEB.2024 20:11:43

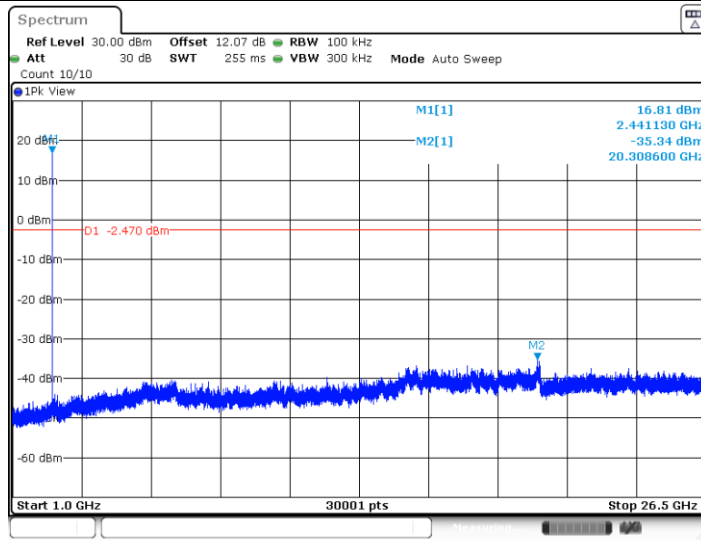


DH5_Ant5_2441_30~1000

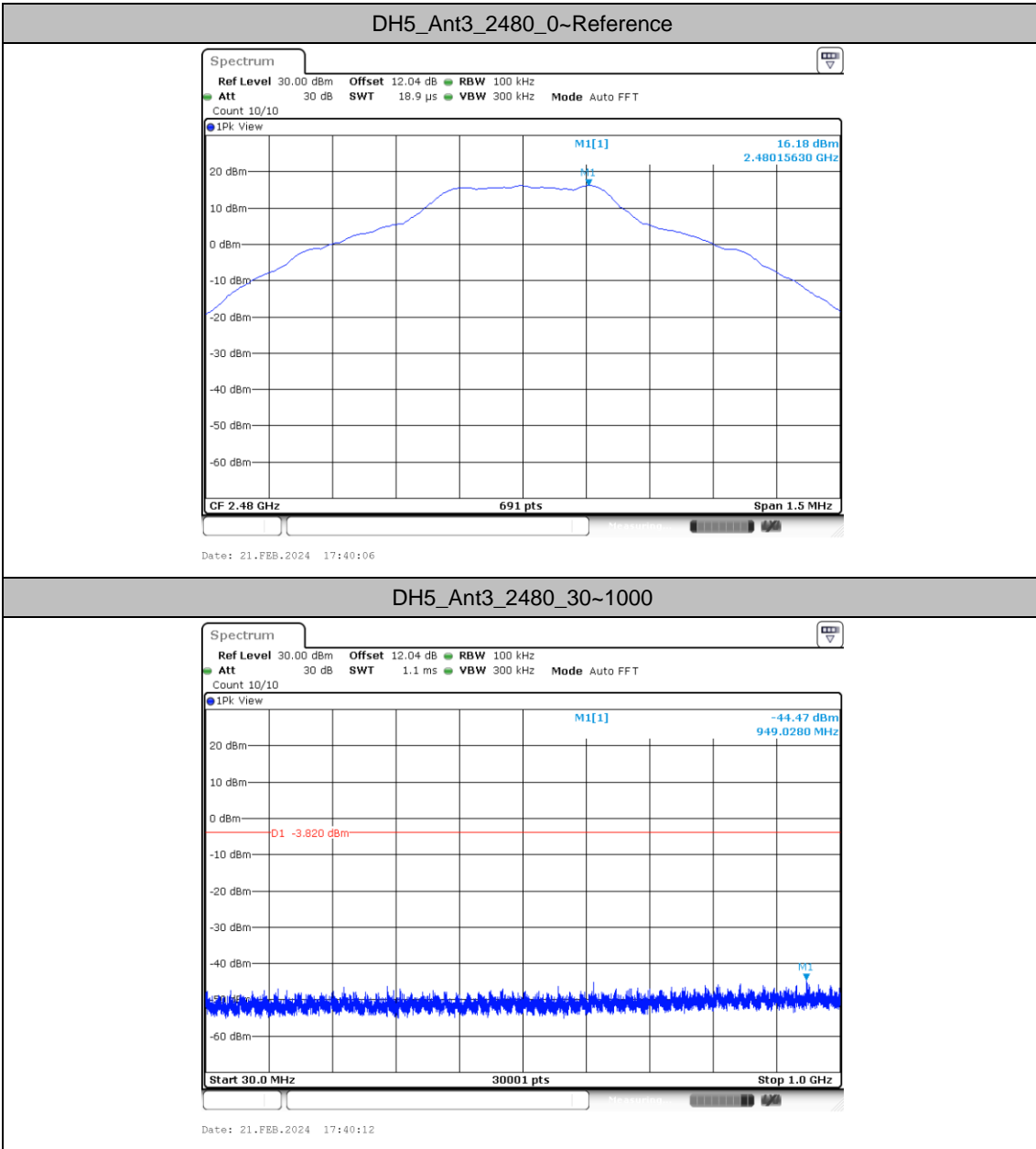


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DH5_Ant5_2441_1000~26500

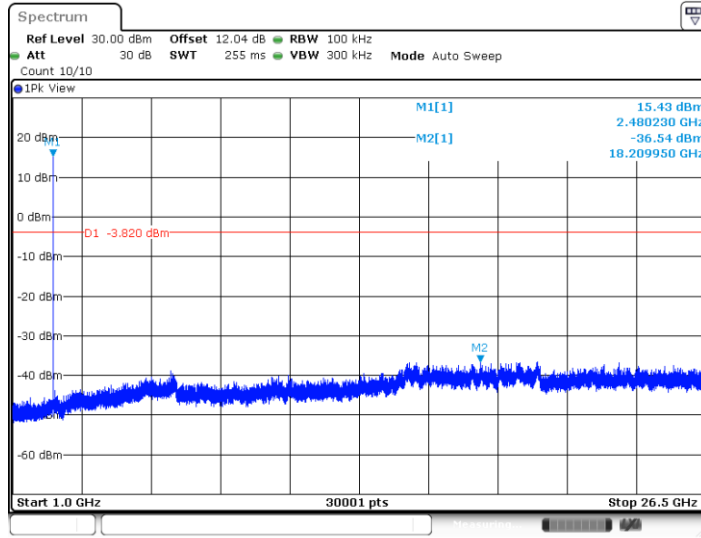


Date: 23.FEB.2024 20:12:11



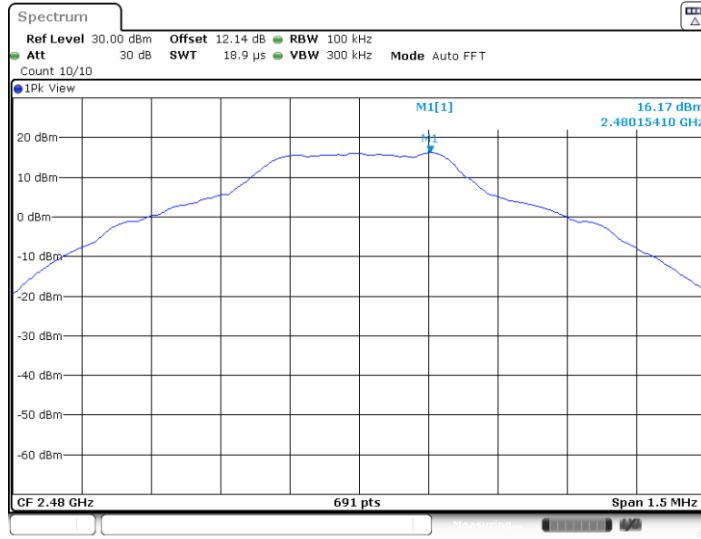


DH5_Ant3_2480_1000~26500



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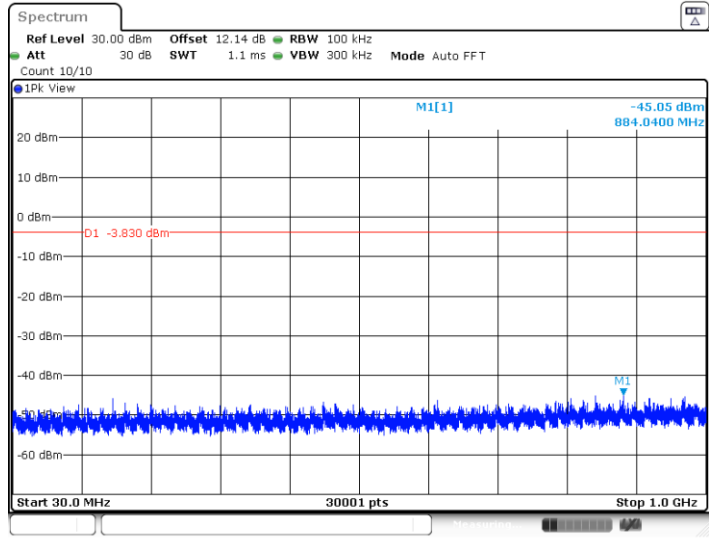
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Date: 23.FEB.2024 20:13:01

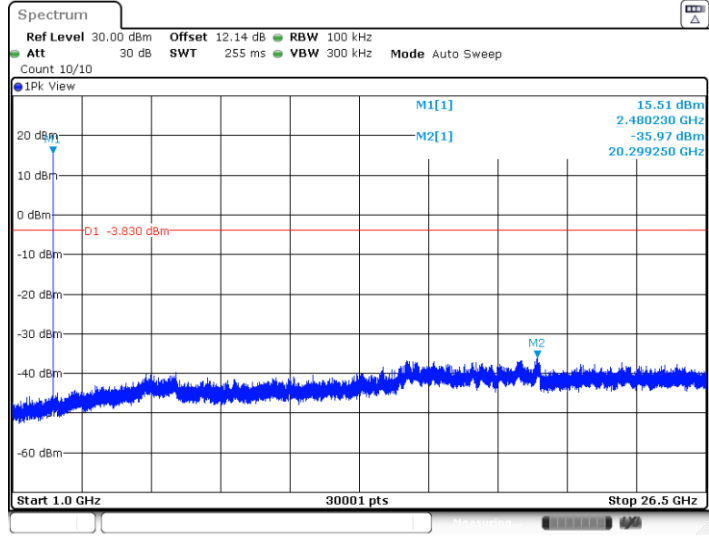


DH5_Ant5_2480_30~1000



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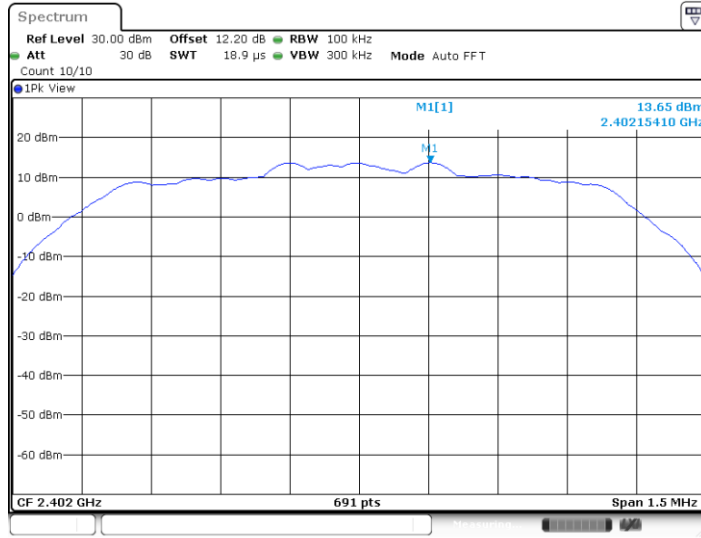
DH5_Ant5_2480_1000~26500



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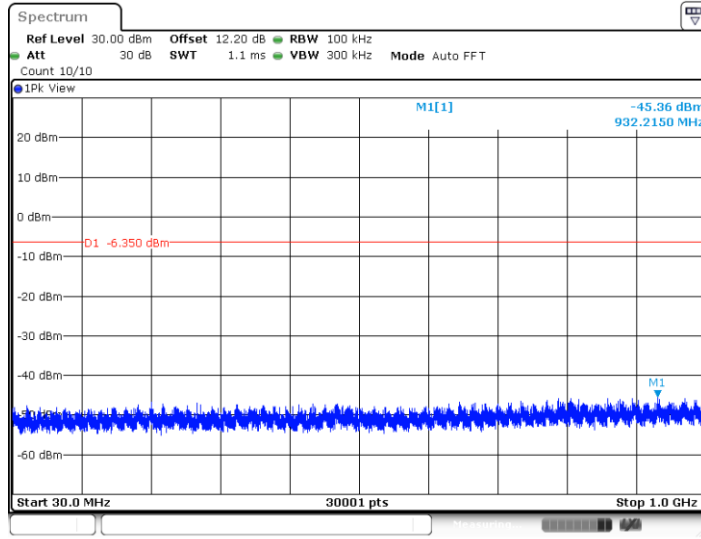


2DH5_Ant3_2402_0~Reference



Date: 21.FEB.2024 17:41:24

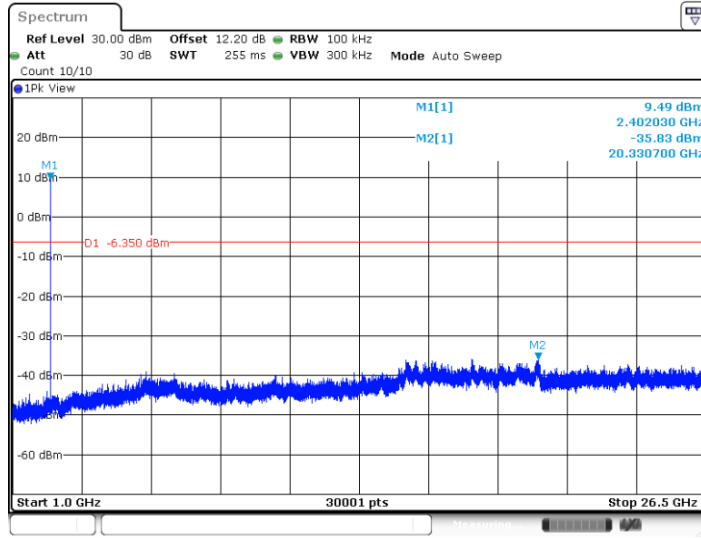
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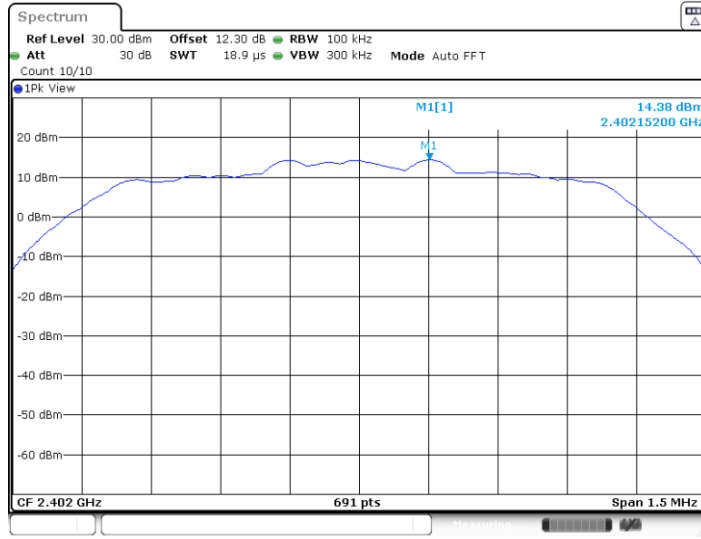
Date: 21.FEB.2024 17:41:31

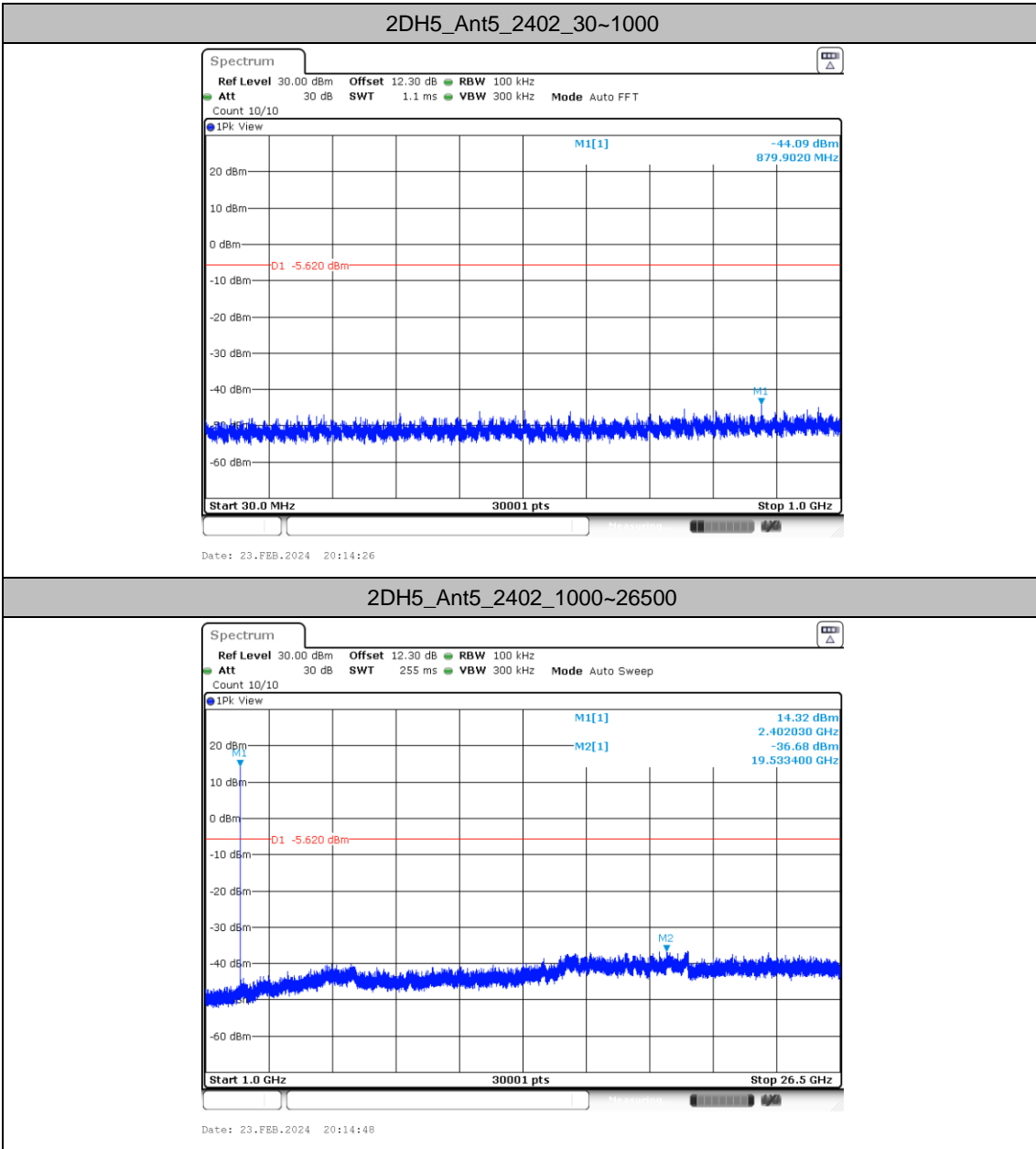


2DH5_Ant3_2402_1000~26500



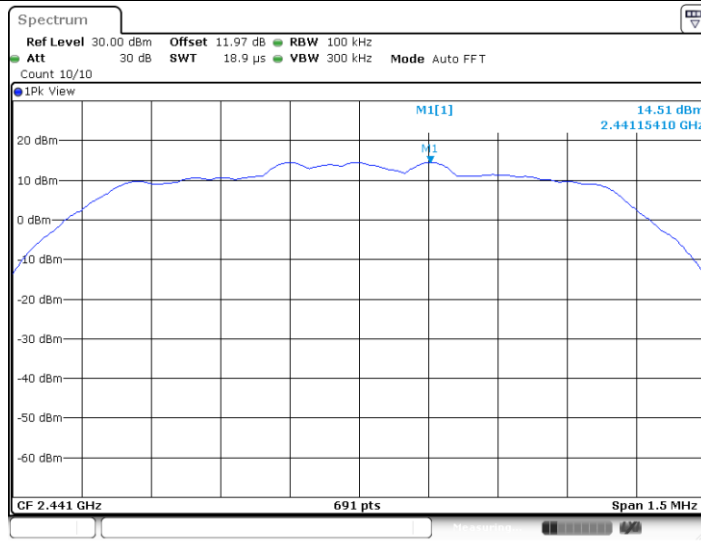
2DH5_Ant5_2402_0~Reference





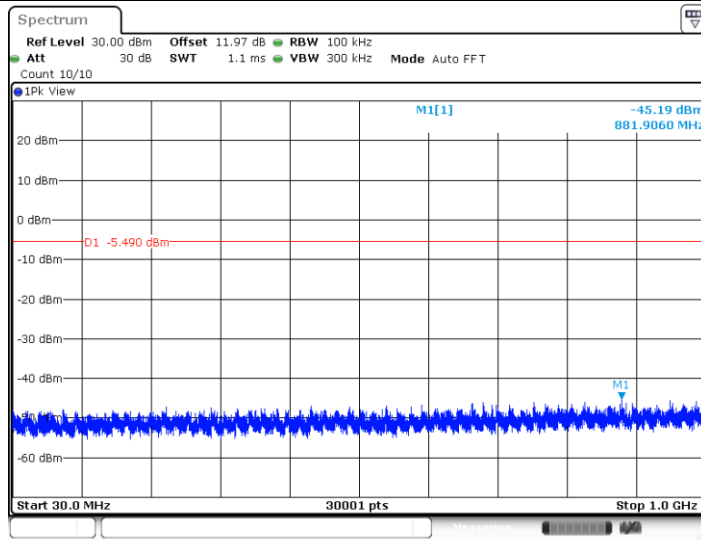


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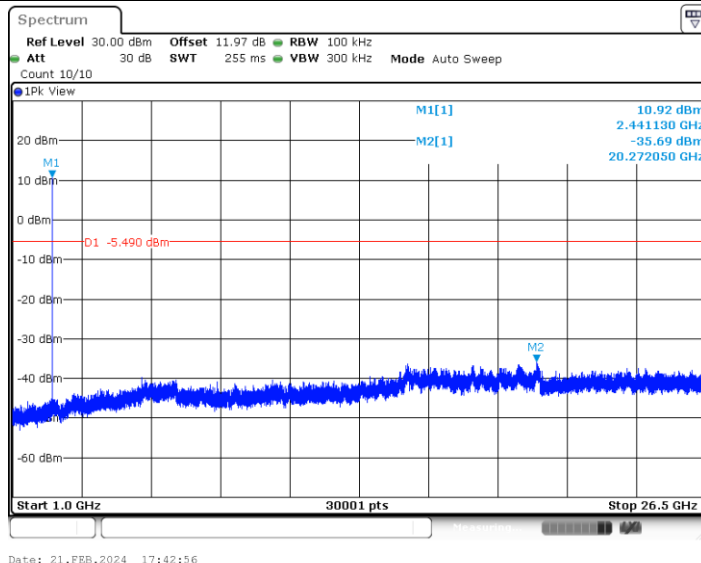
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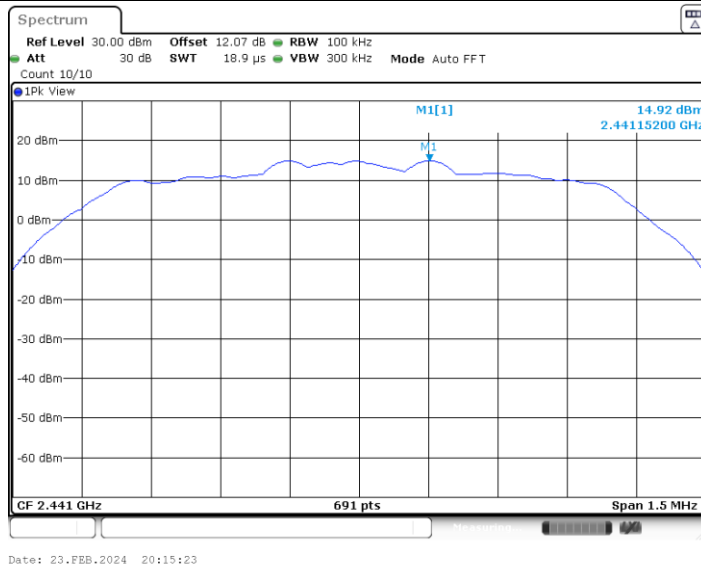
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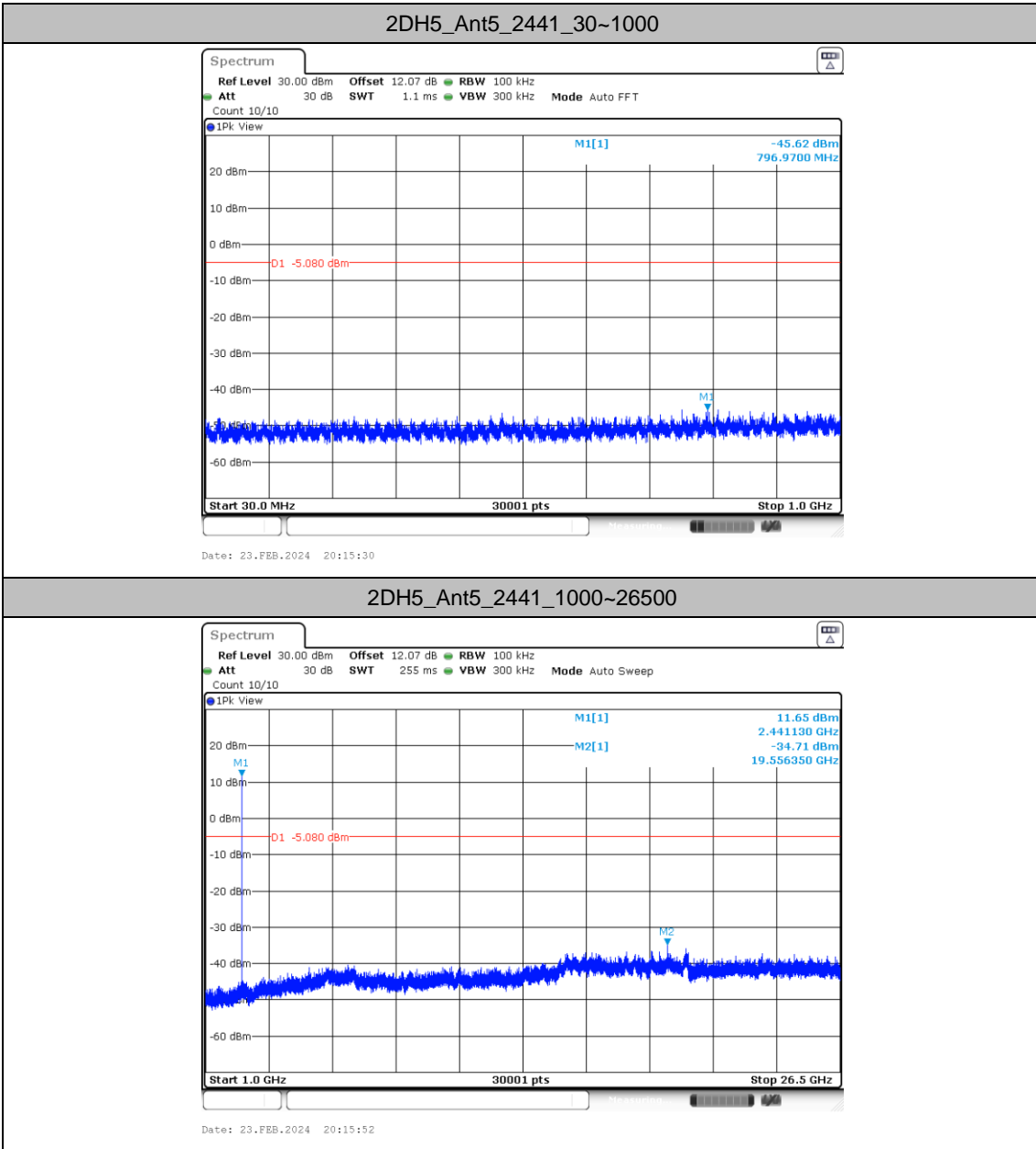


2DH5_Ant3_2441_1000~26500



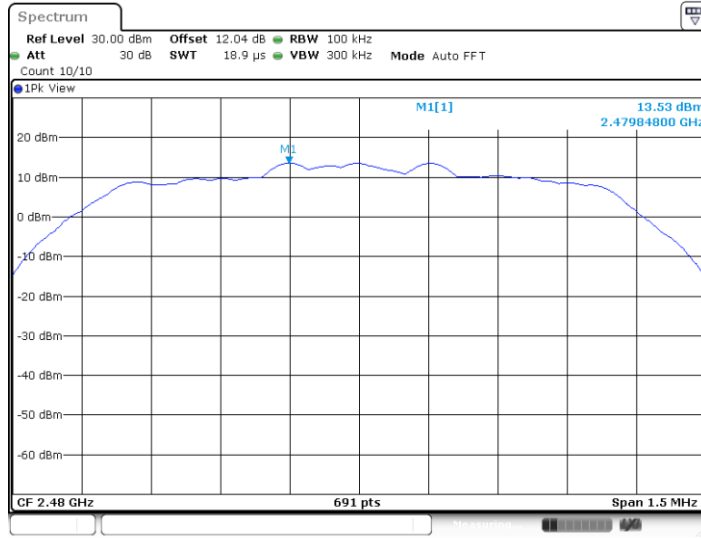
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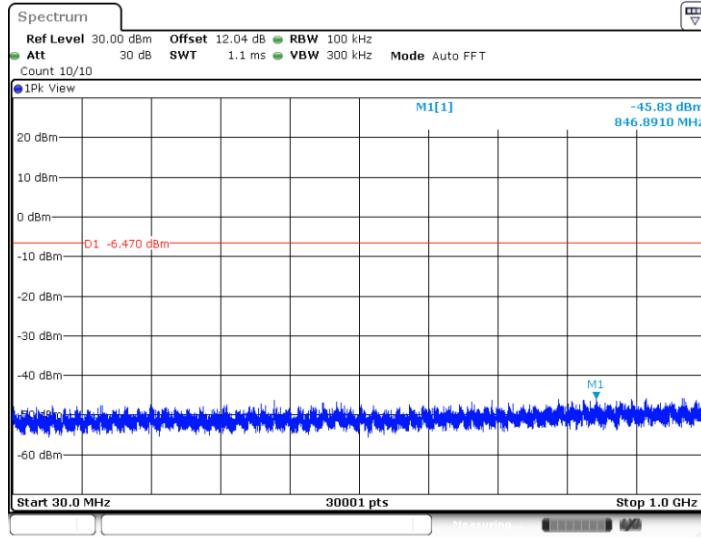


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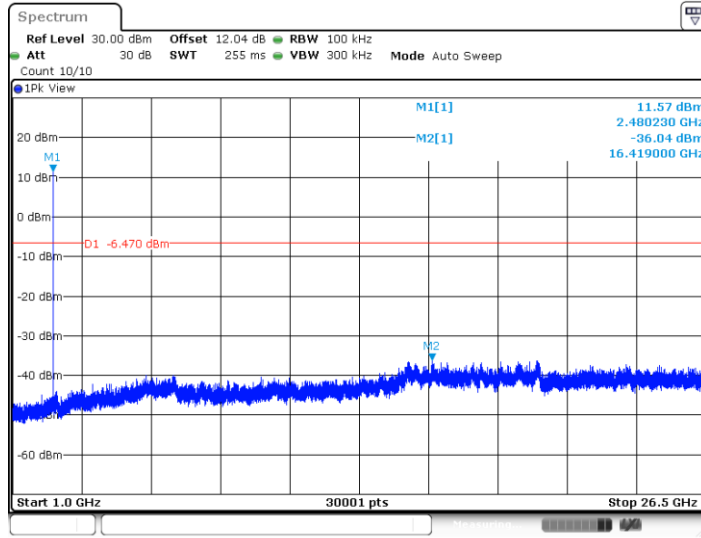
2DH5_Ant3_2480_30~1000



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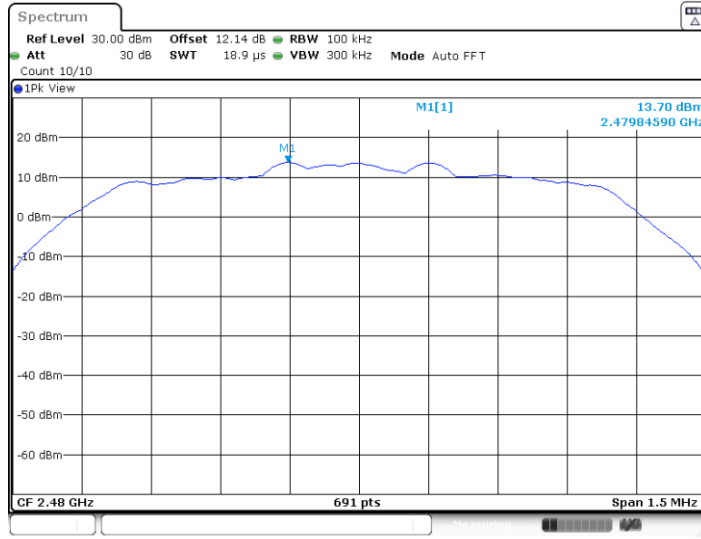


2DH5_Ant3_2480_1000~26500

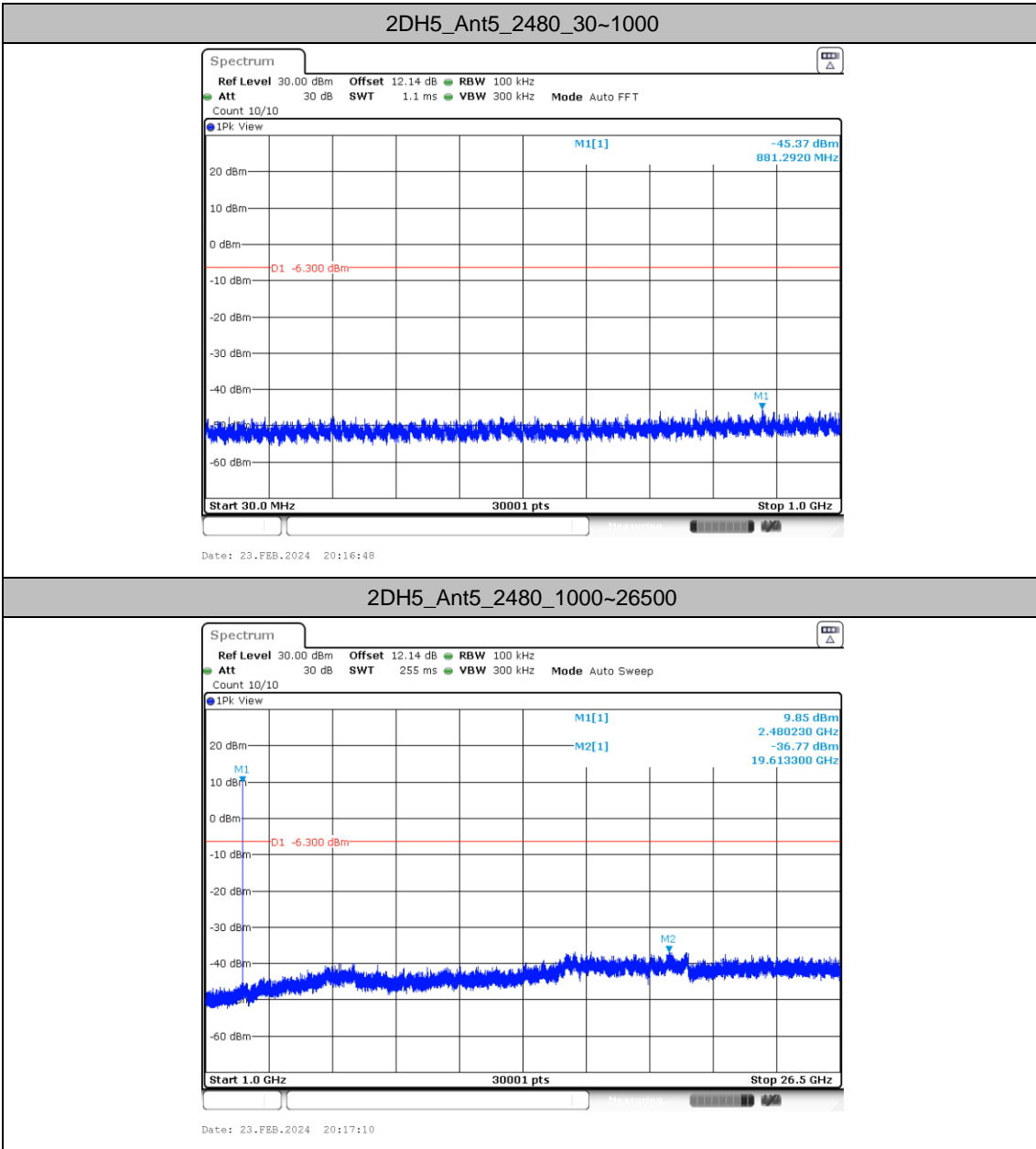


Date: 21.FEB.2024 17:44:14

2DH5_Ant5_2480_0~Reference

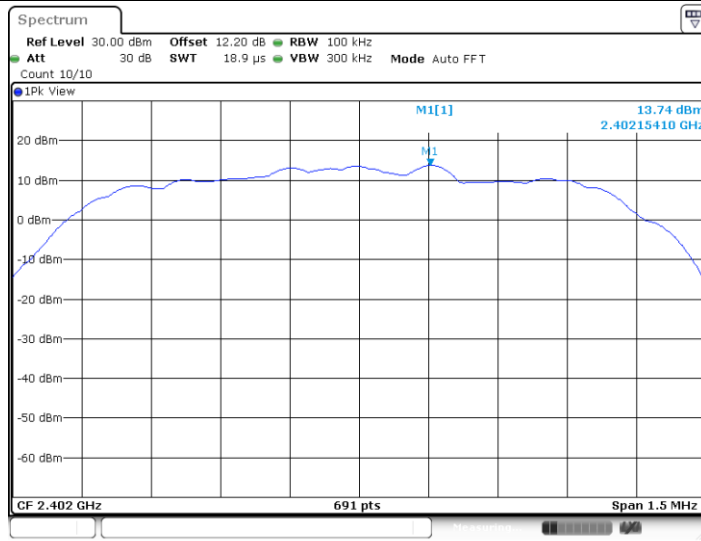


Date: 23.FEB.2024 20:16:42



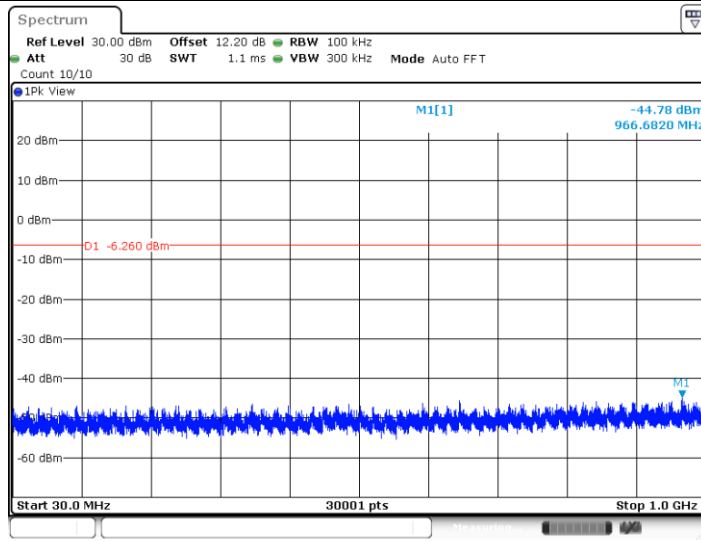


3DH5_Ant3_2402_0~Reference

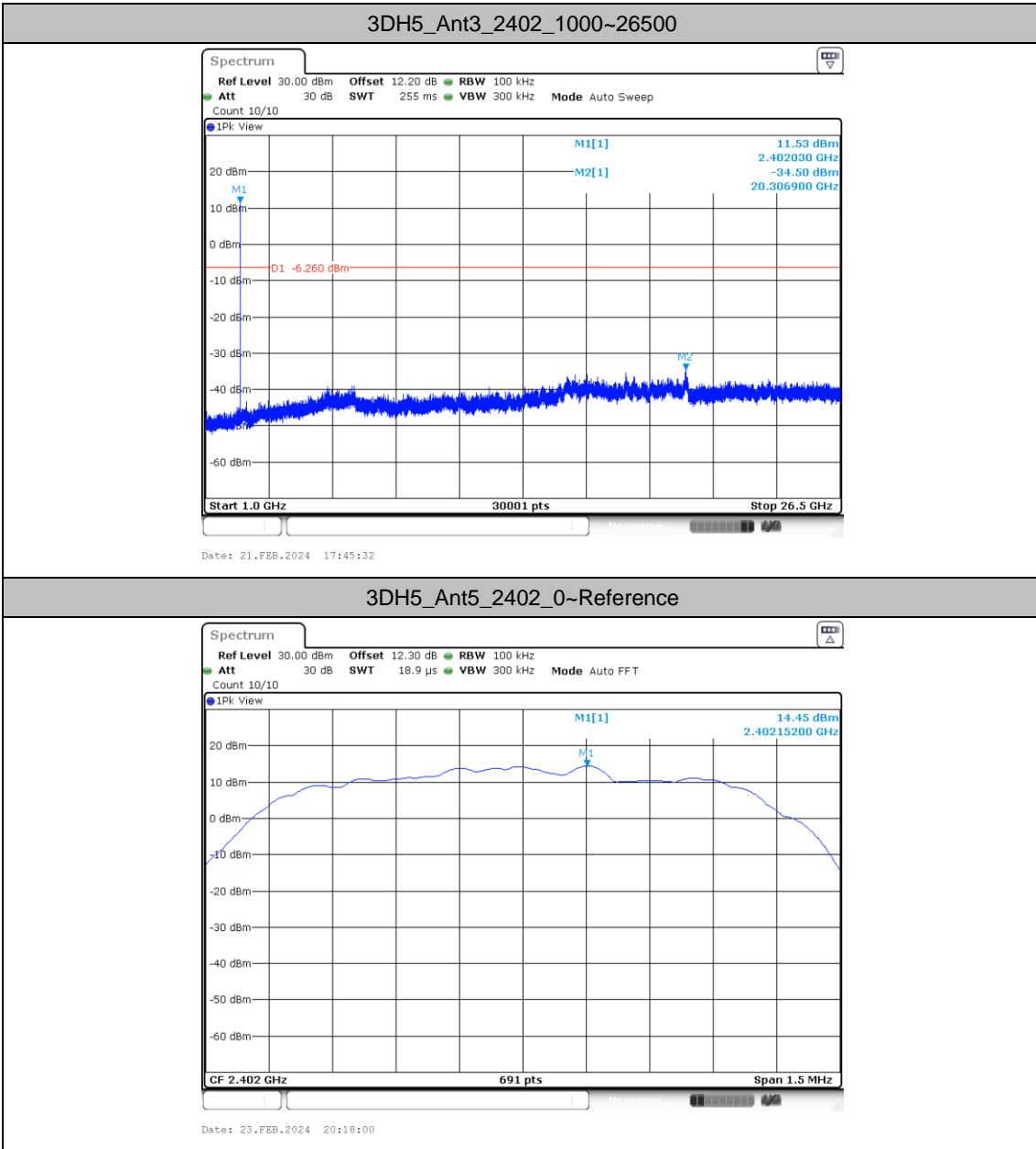


Date: 21.FEB.2024 17:45:03

3DH5_Ant3_2402_30~1000

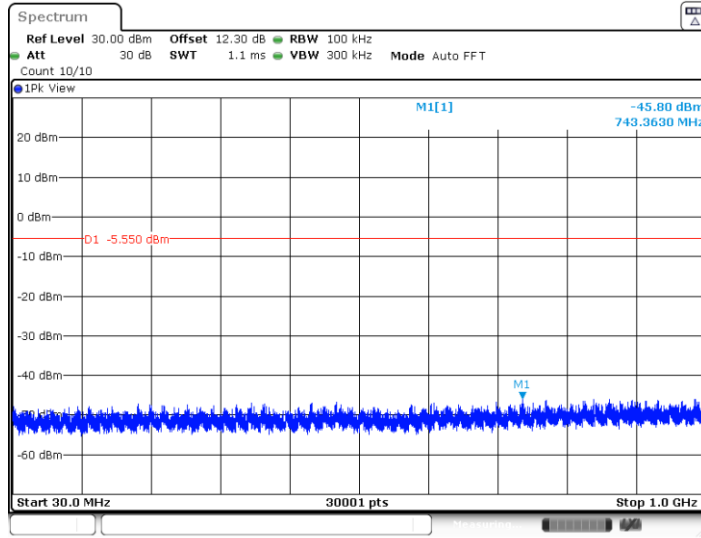


Date: 21.FEB.2024 17:45:10



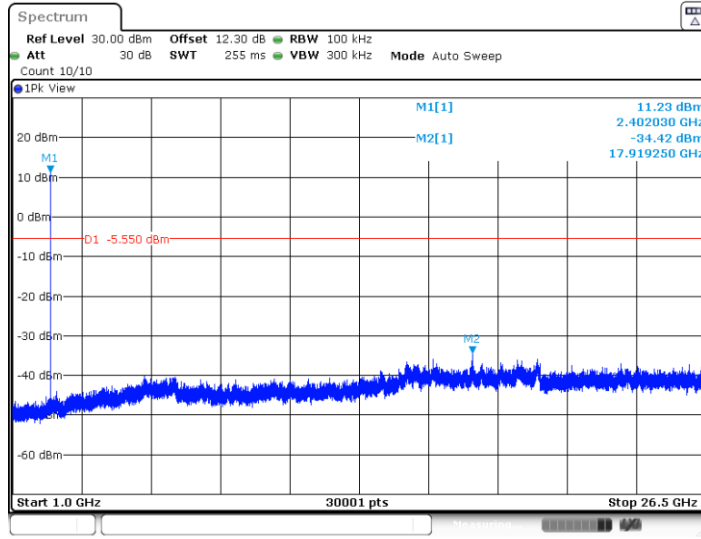


3DH5_Ant5_2402_30~1000



Date: 23.FEB.2024 20:18:07

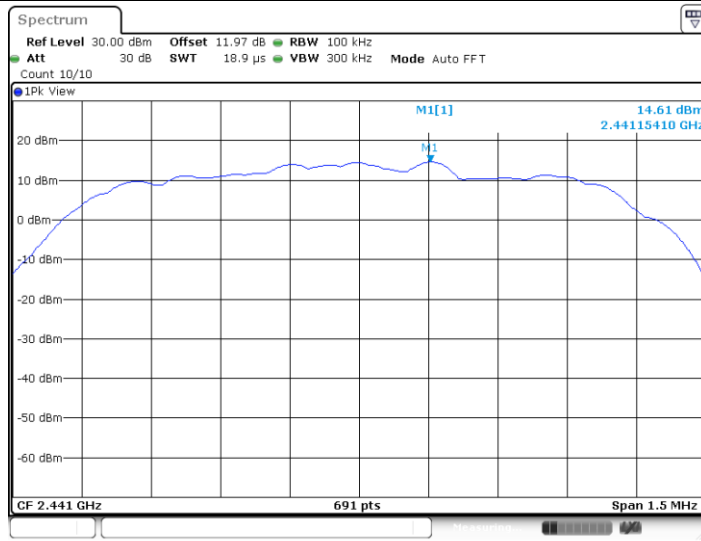
3DH5_Ant5_2402_1000~26500



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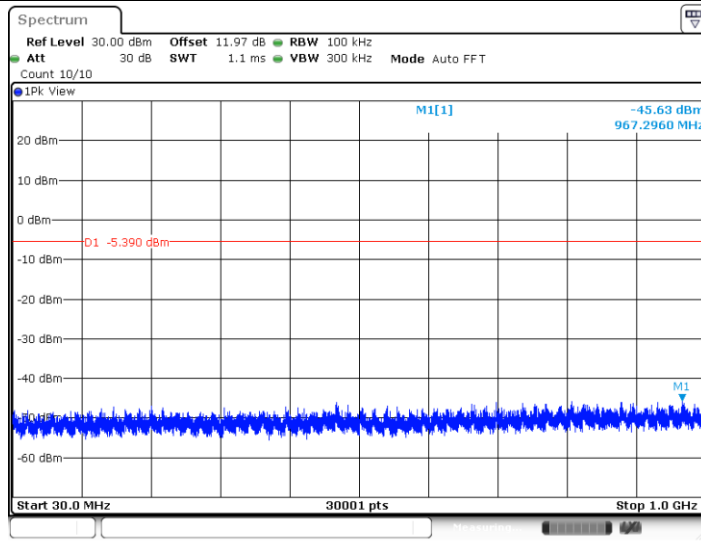


3DH5_Ant3_2441_0~Reference



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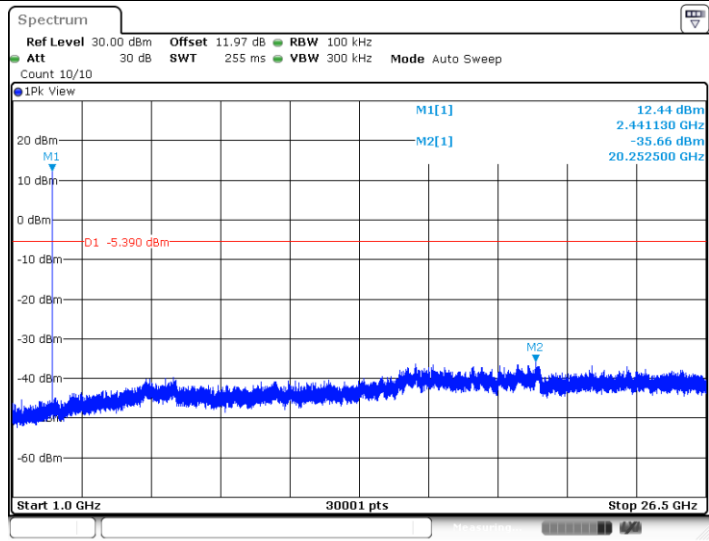
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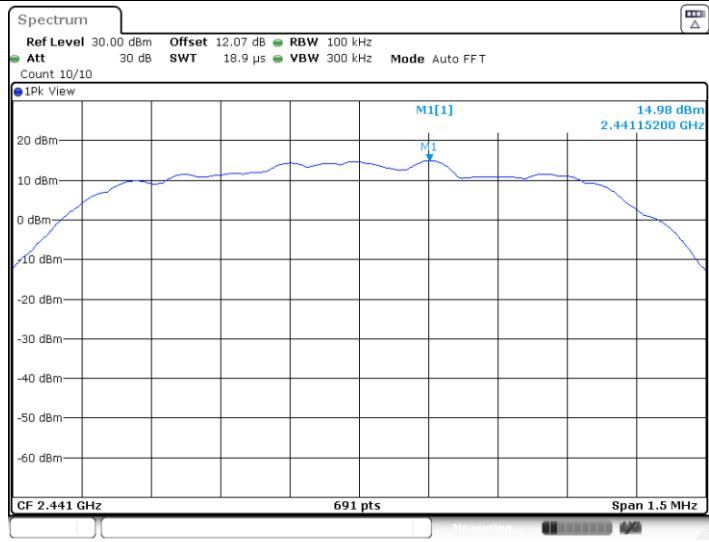


3DH5_Ant3_2441_1000~26500

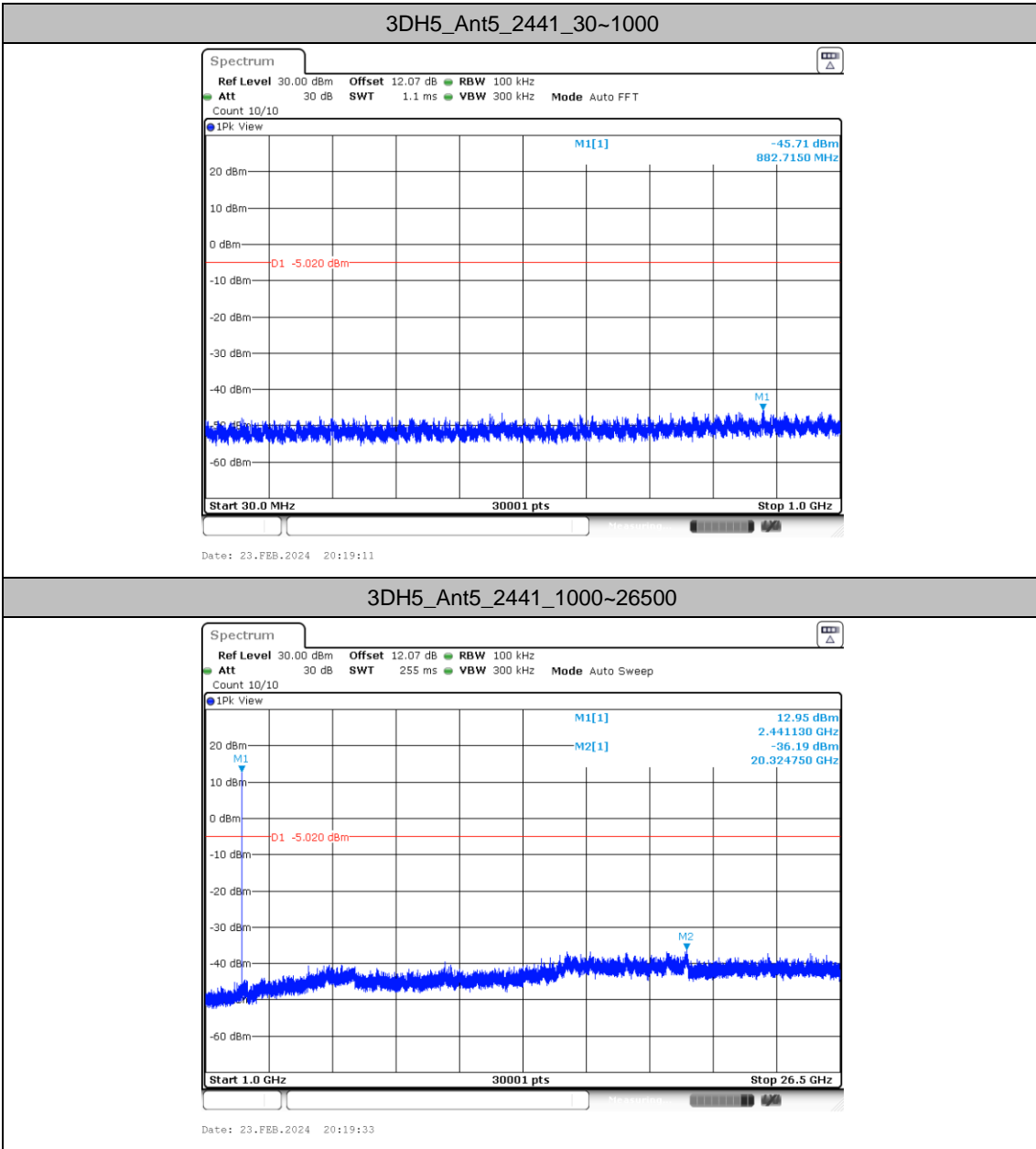


Date: 21.FEB.2024 17:46:35

3DH5_Ant5_2441_0~Reference

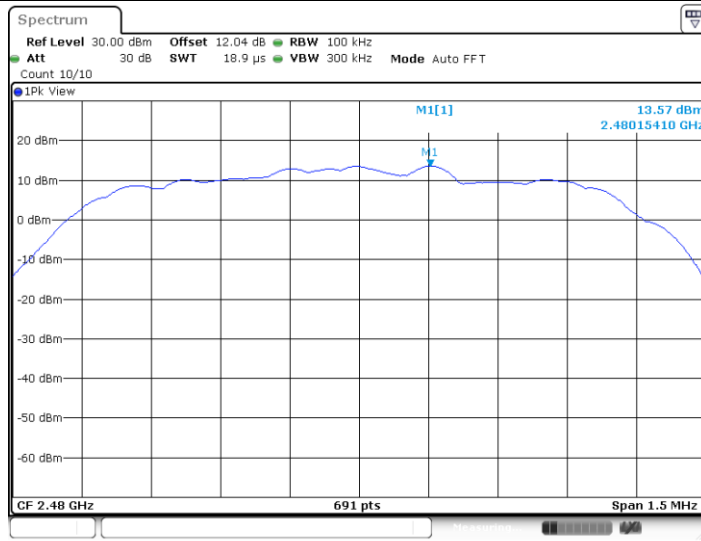


Date: 23.FEB.2024 20:19:04



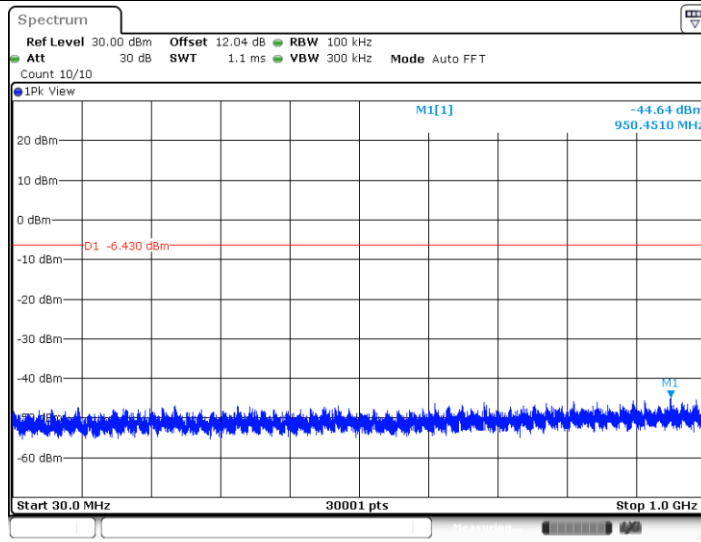


3DH5_Ant3_2480_0~Reference



Date: 21.FEB.2024 17:47:24

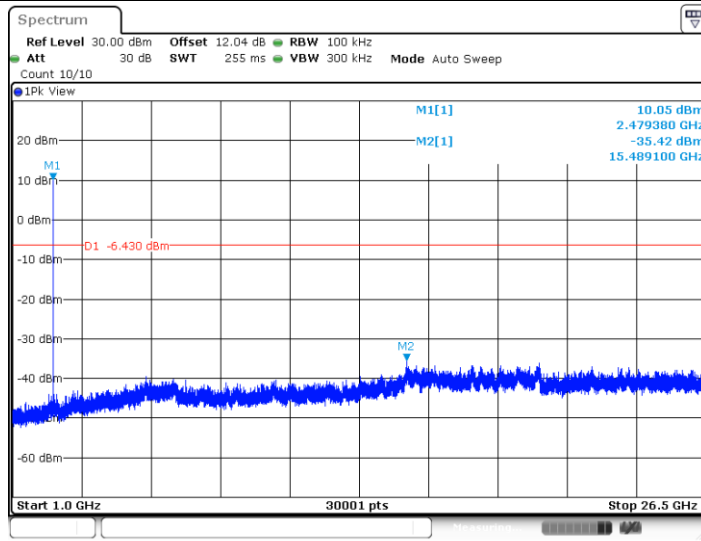
3DH5_Ant3_2480_30~1000



Date: 21.FEB.2024 17:47:31

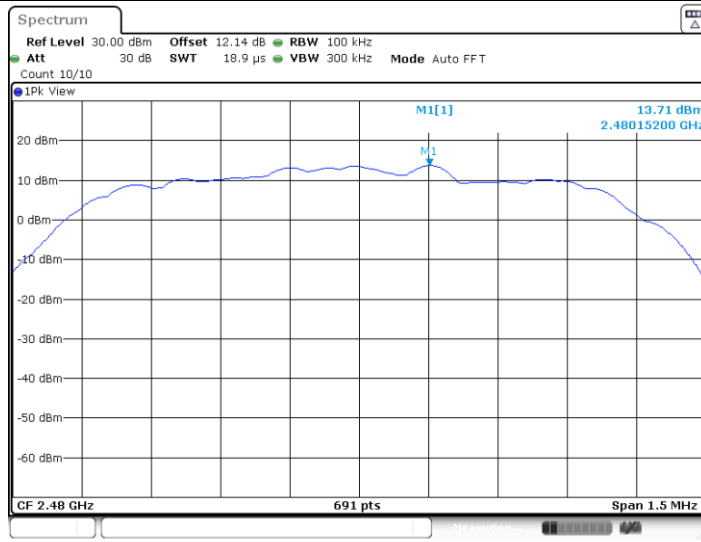


3DH5_Ant3_2480_1000~26500

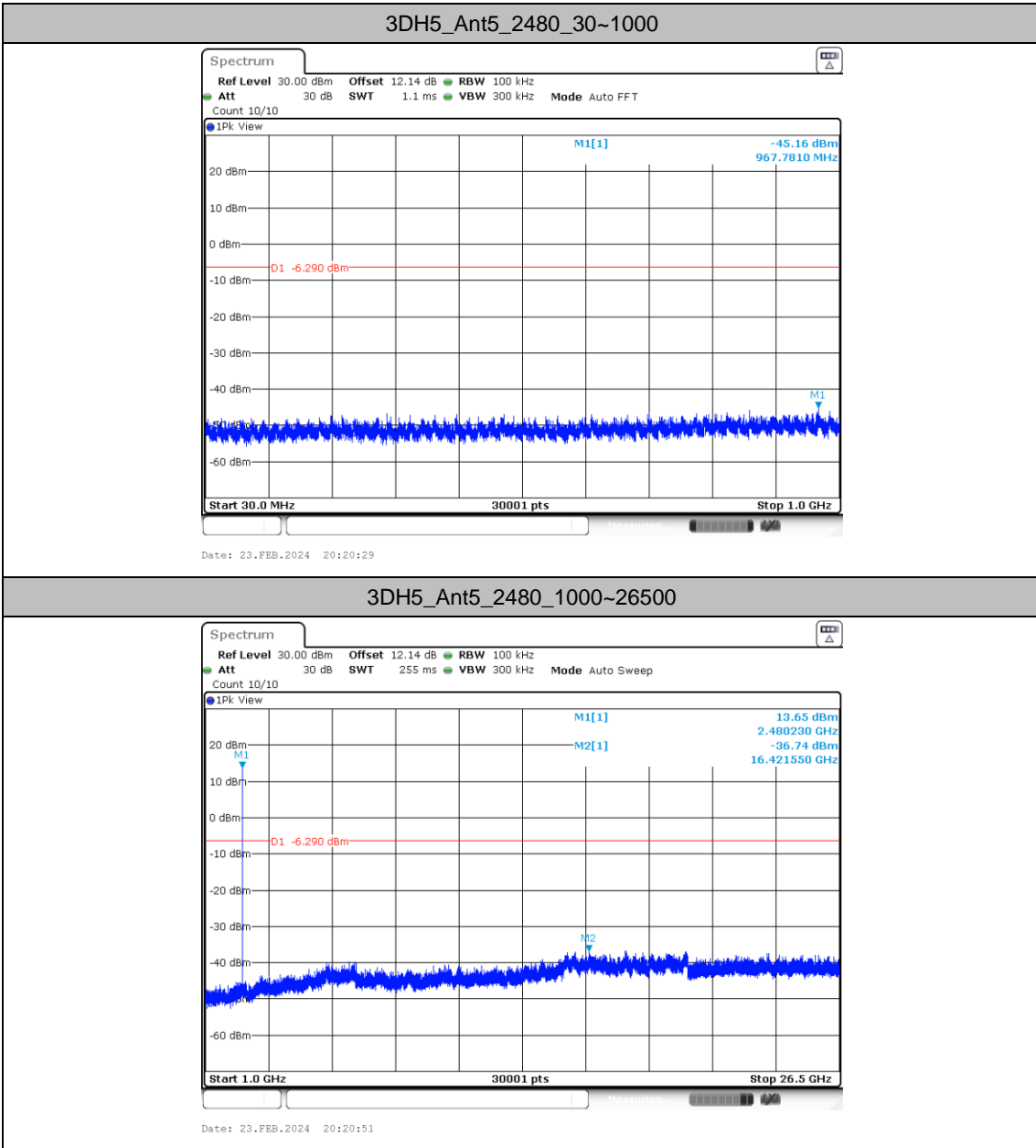


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3DH5_Ant5_2480_0~Reference



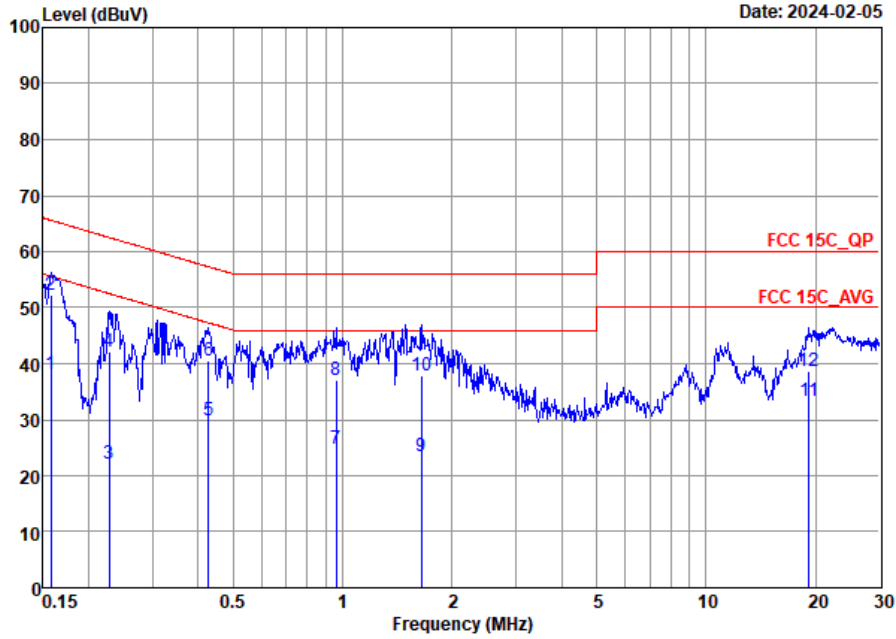
Date: 23.FEB.2024 20:20:22





Appendix B. AC Conducted Emission Test Results

Test Engineer :	FangMing Liang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

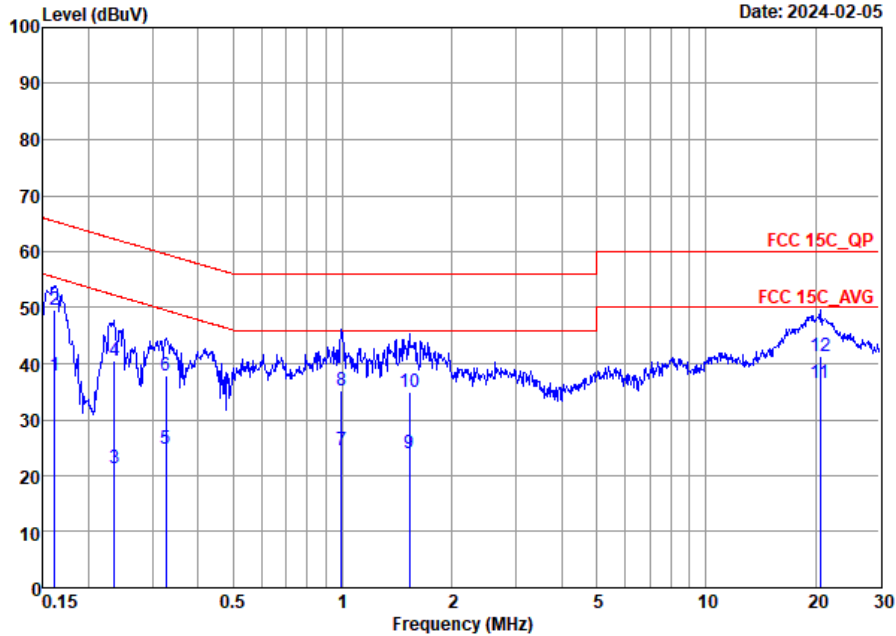


Site : CO01-SZ
 Condition: FCC 15C_QP AC LISN 100063_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	38.17	-17.43	55.60	17.70	10.33	10.14	Average
2 *	0.16	52.37	-13.23	65.60	31.90	10.33	10.14	QP
3	0.23	22.13	-30.39	52.52	1.70	10.28	10.15	Average
4	0.23	42.13	-20.39	62.52	21.70	10.28	10.15	QP
5	0.43	29.95	-17.34	47.29	9.40	10.39	10.16	Average
6	0.43	40.65	-16.64	57.29	20.10	10.39	10.16	QP
7	0.96	24.77	-21.23	46.00	4.30	10.31	10.16	Average
8	0.96	37.07	-18.93	56.00	16.60	10.31	10.16	QP
9	1.64	23.58	-22.42	46.00	2.70	10.67	10.21	Average
10	1.64	37.88	-18.12	56.00	17.00	10.67	10.21	QP
11	19.22	33.28	-16.72	50.00	12.60	10.13	10.55	Average
12	19.22	38.68	-21.32	60.00	18.00	10.13	10.55	QP



Test Engineer :	FangMing Liang	Temperature :	22~24°C
		Relative Humidity :	44~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : C001-SZ
 Condition: FCC 15C_QP AC LISN 100063_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.16	37.89	-17.49	55.38	17.40	10.35	10.14	Average
2	0.16	49.69	-15.69	65.38	29.20	10.35	10.14	QP
3	0.24	21.33	-30.93	52.26	1.00	10.18	10.15	Average
4	0.24	40.53	-21.73	62.26	20.20	10.18	10.15	QP
5	0.33	24.85	-24.68	49.53	4.29	10.40	10.16	Average
6	0.33	37.85	-21.68	59.53	17.29	10.40	10.16	QP
7	0.99	24.49	-21.51	46.00	4.10	10.23	10.16	Average
8	0.99	35.29	-20.71	56.00	14.90	10.23	10.16	QP
9	1.53	23.94	-22.06	46.00	3.30	10.44	10.20	Average
10	1.53	34.94	-21.06	56.00	14.30	10.44	10.20	QP
11 *	20.59	36.49	-13.51	50.00	15.80	10.10	10.59	Average
12	20.59	41.29	-18.71	60.00	20.60	10.10	10.59	QP

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

Test Engineer :	Shunping You	Relative Humidity :	48~49%
		Temperature :	24~25

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	3	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	3	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	3	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	3	Bluetooth BR_GFSK	78	2480	1Mbps	-	LF
Mode 5	2400-2483.5	5	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 6	2400-2483.5	5	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 7	2400-2483.5	5	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 8	2400-2483.5	5	Bluetooth BR_GFSK	78	2480	1Mbps	-	LF

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 BR_GFSK	00	2365.66	44.57	74.00	-29.43	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	40.30	74.00	-33.70	V	Peak	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	43.02	74.00	-30.98	H	Peak	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.54	49.04	74.00	-24.96	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	43.22	74.00	-30.78	H	Peak	Pass	Harmonic
4	Bluetooth BR_GFSK	78	33.88	26.2	40	-13.8	V	Peak	Pass	LF
5	Bluetooth BR_GFSK	00	2381.12	45.10	74.00	-28.90	H	PEAK	Pass	Band Edge
5	Bluetooth BR_GFSK	00	4804.00	39.74	74.00	-34.26	V	Peak	Pass	Harmonic
6	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
6	Bluetooth BR_GFSK	39	7323.00	43.20	74.00	-30.80	H	Peak	Pass	Harmonic
7	Bluetooth BR_GFSK	78	2483.54	48.49	74.00	-25.51	H	PEAK	Pass	Band Edge
7	Bluetooth BR_GFSK	78	7440.00	42.89	74.00	-31.11	V	Peak	Pass	Harmonic
8	Bluetooth BR_GFSK	78	31.94	25.65	40	-14.35	V	Peak	Pass	LF



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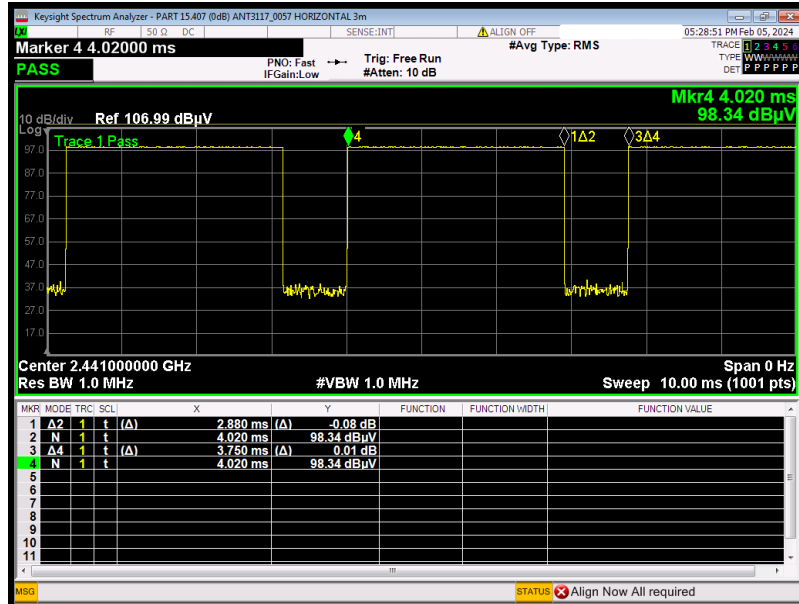
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 39



DH5 on time (Count Pulses) Plot on Channel 39



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. DH5 has the highest duty cycle worst case and is reported.