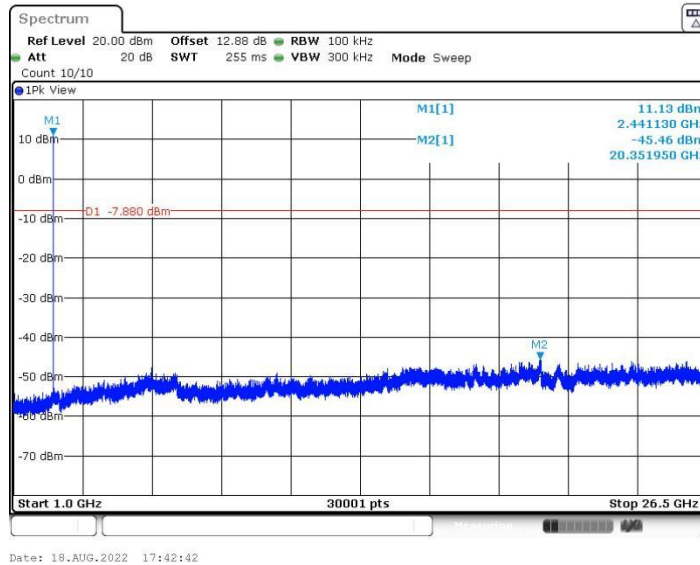
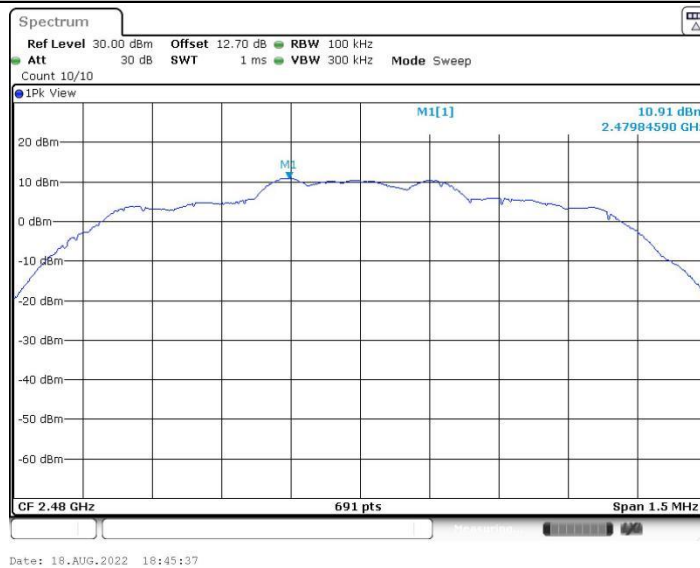


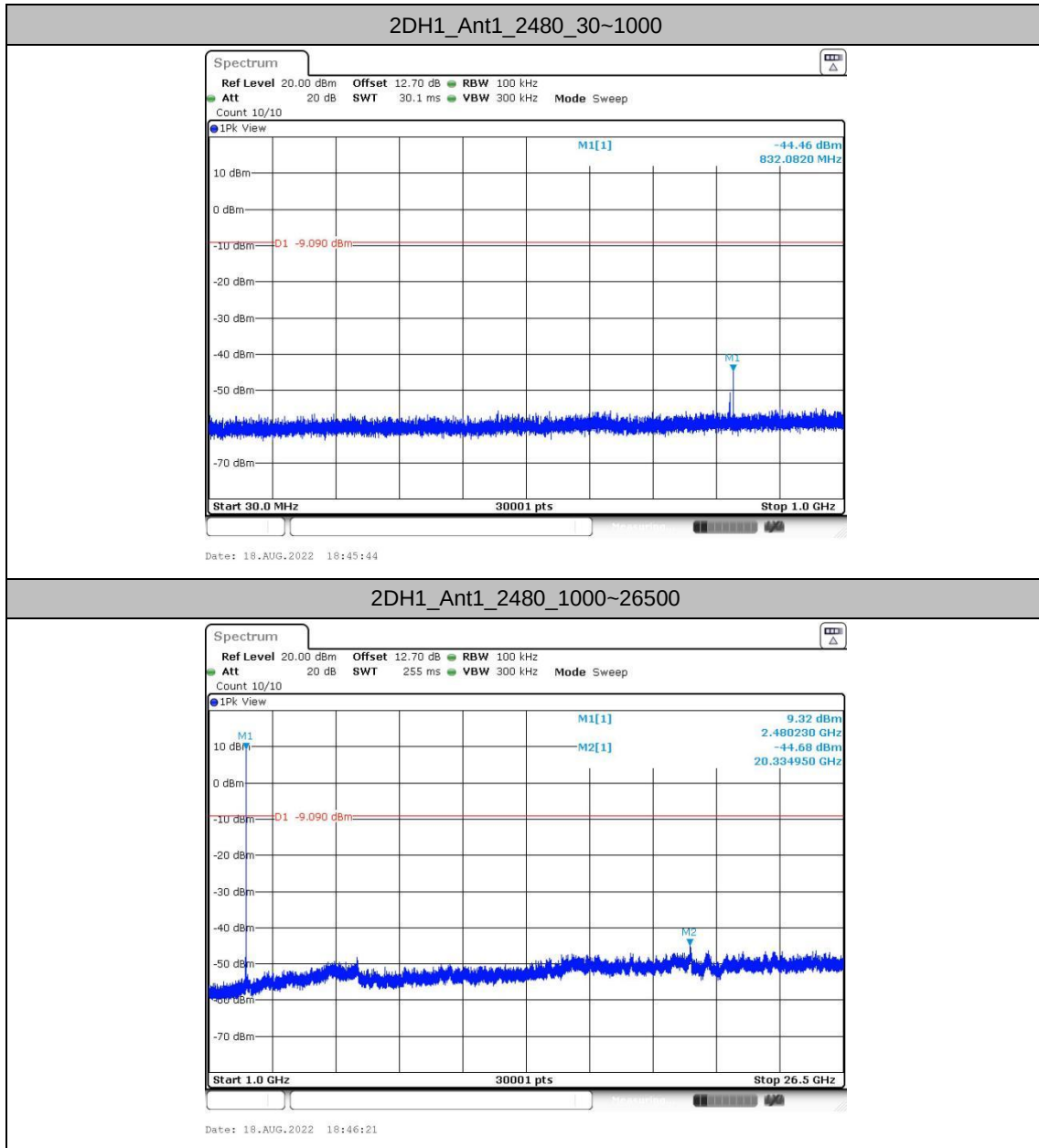


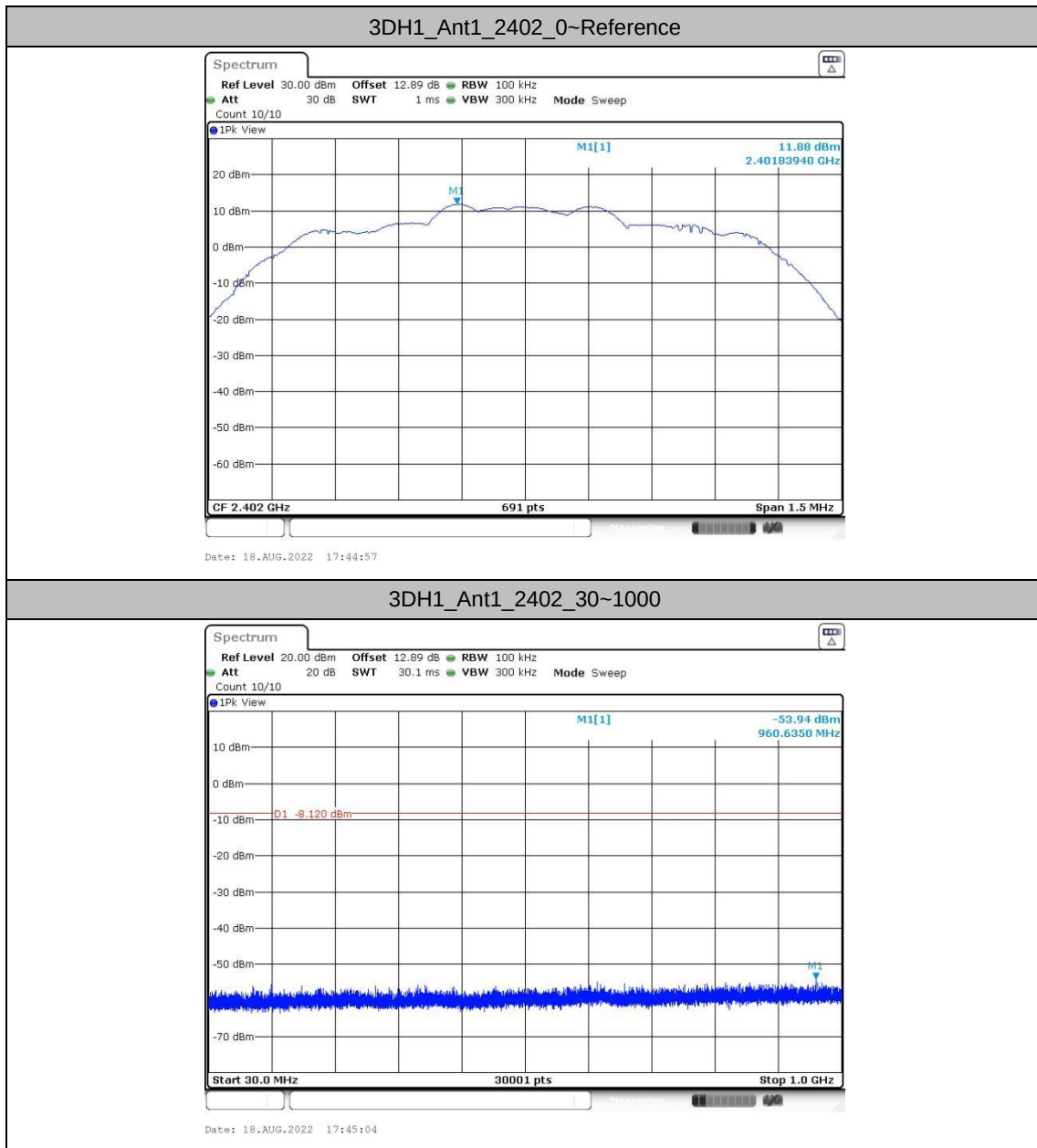
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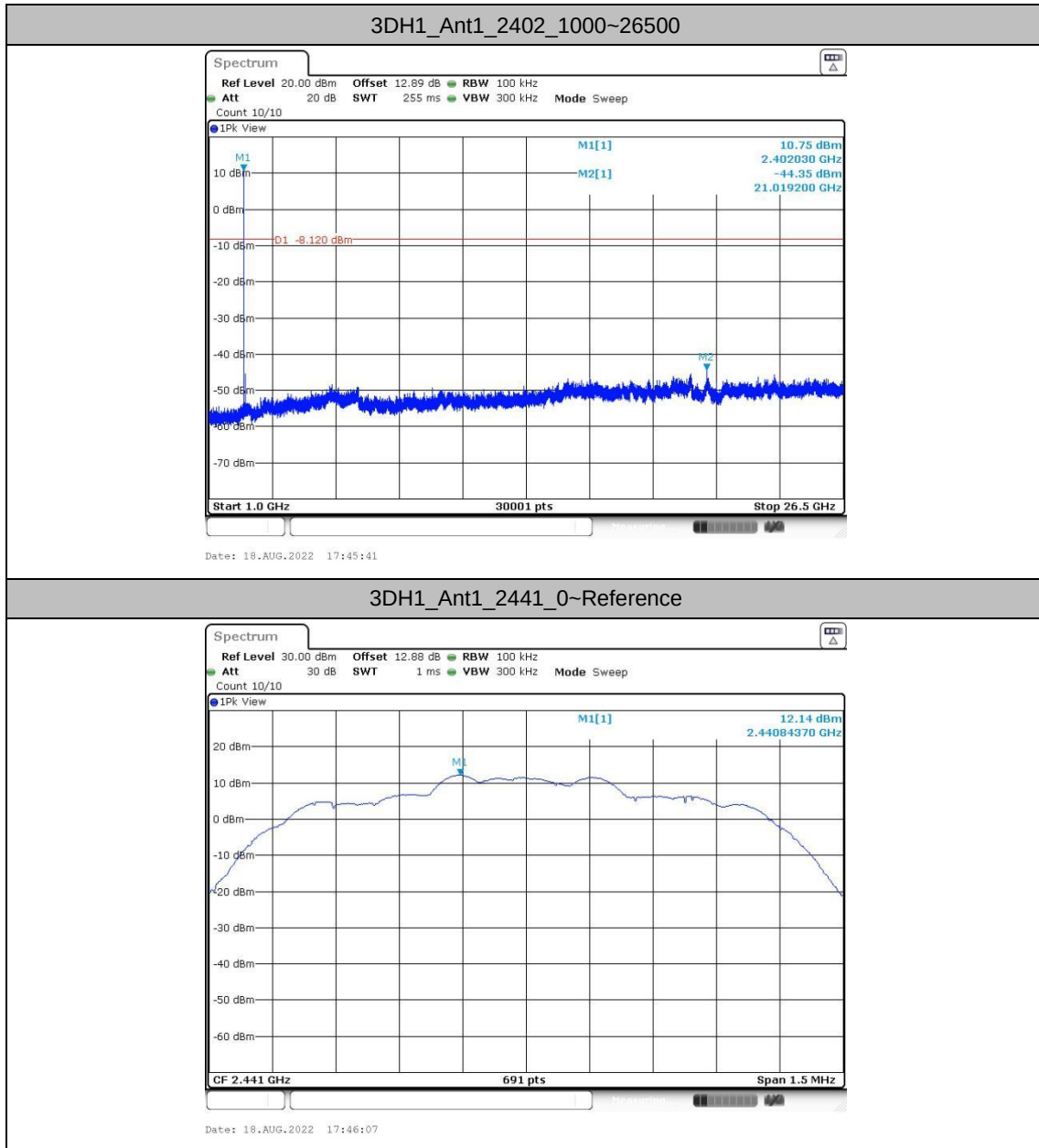


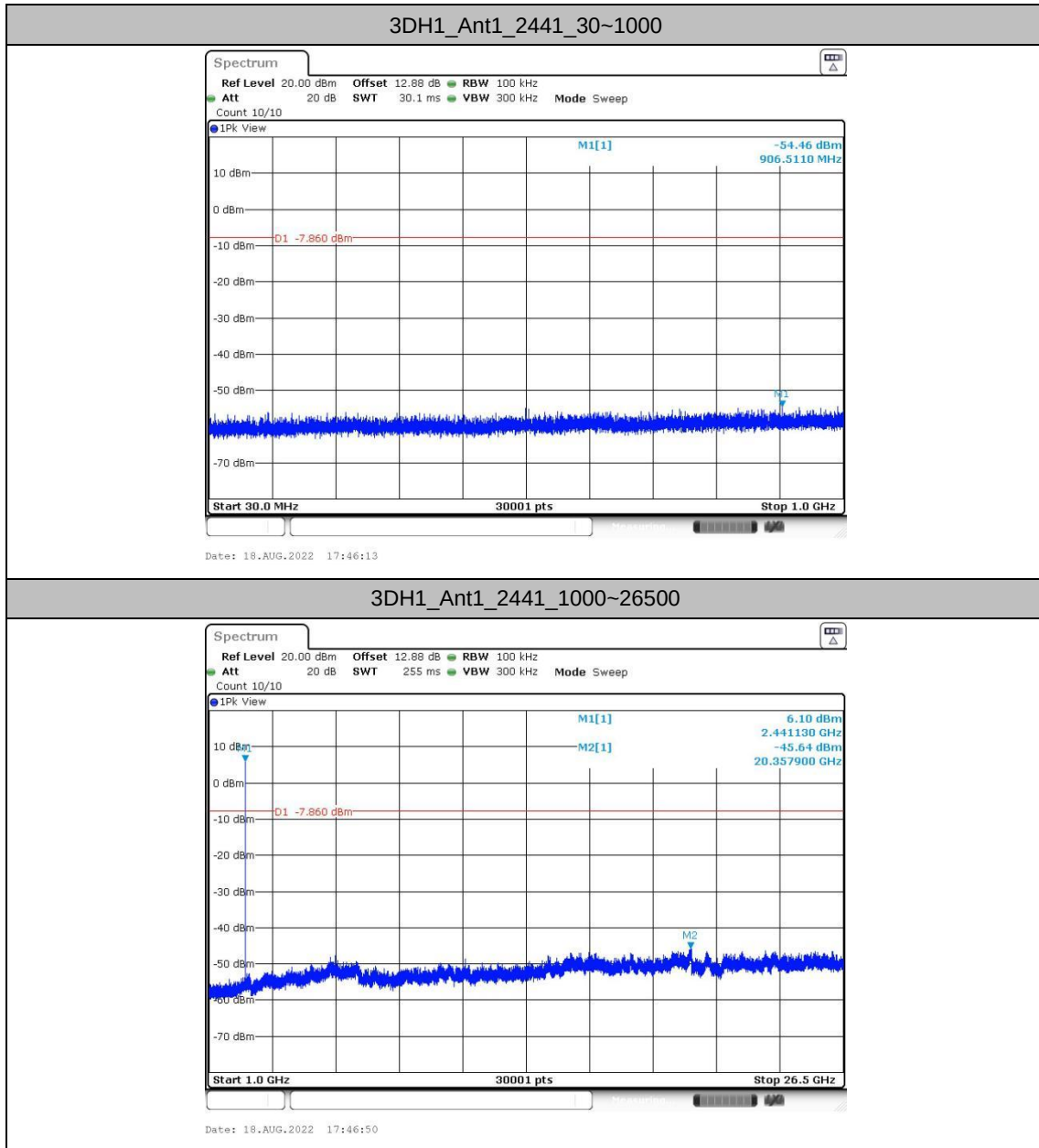
2DH1_Ant1_2480_0~Reference

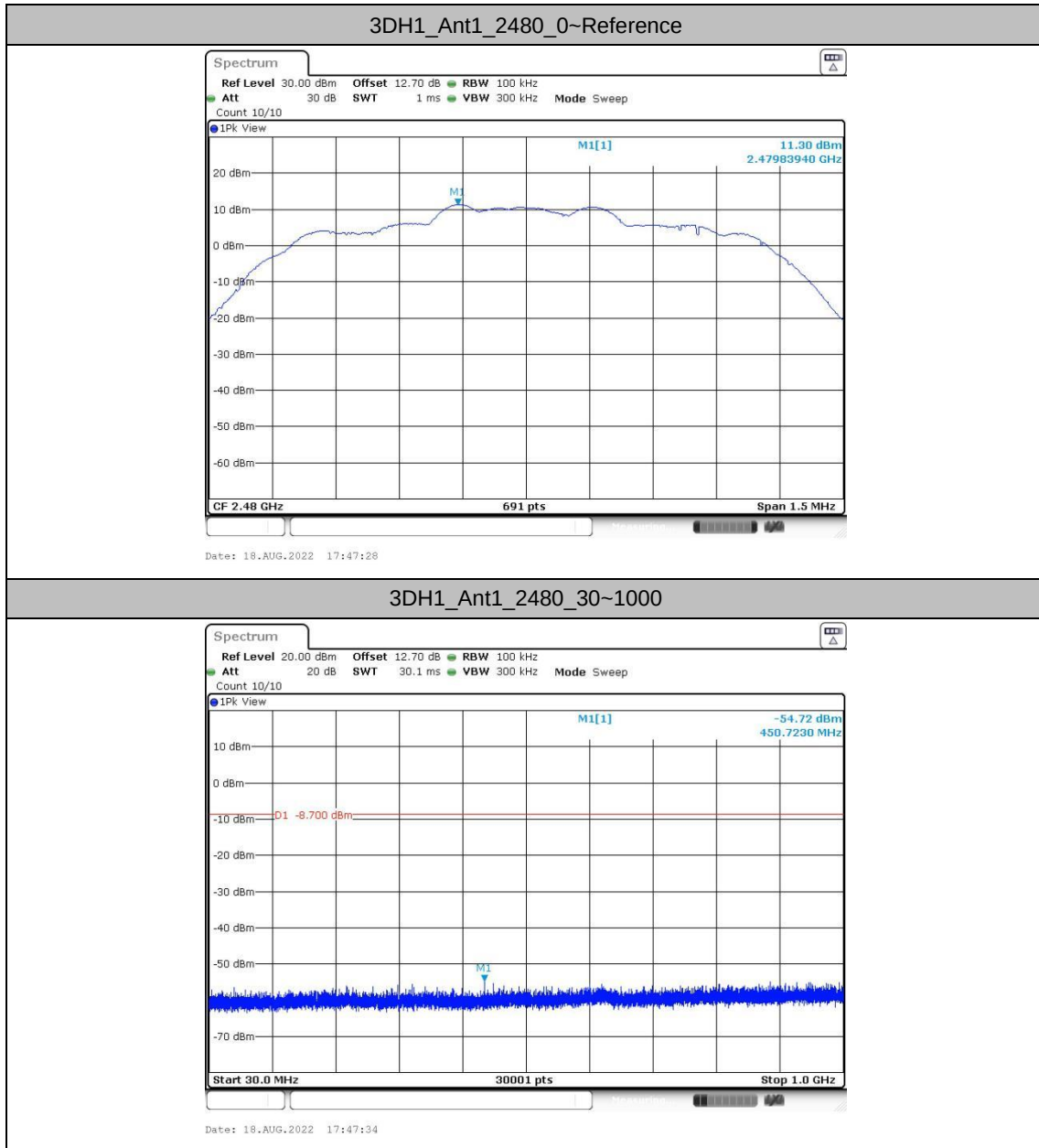


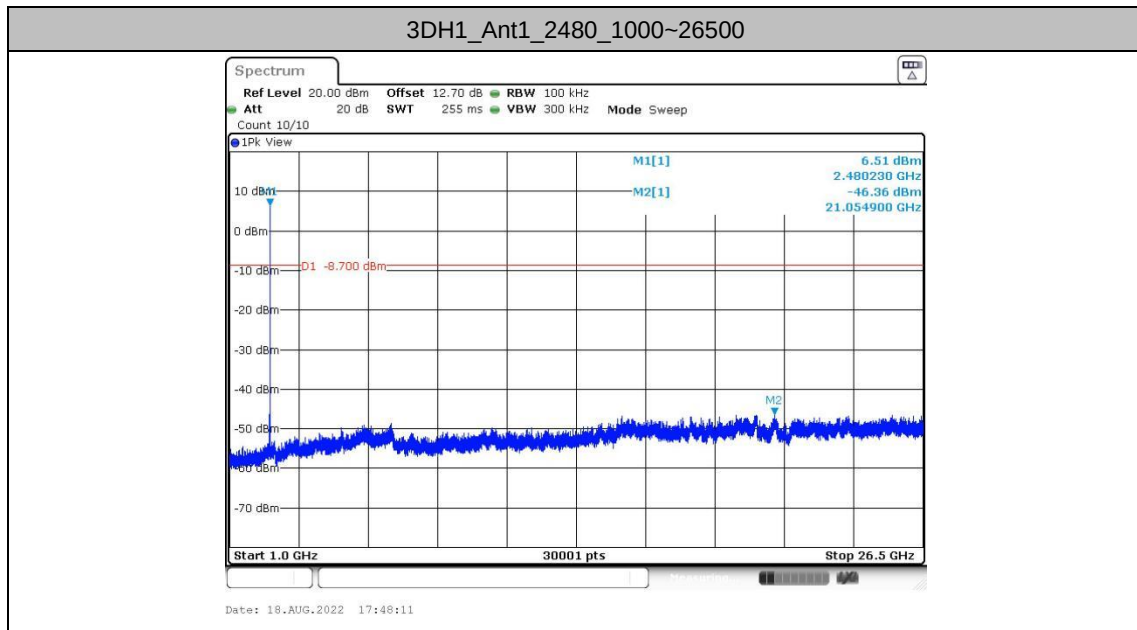






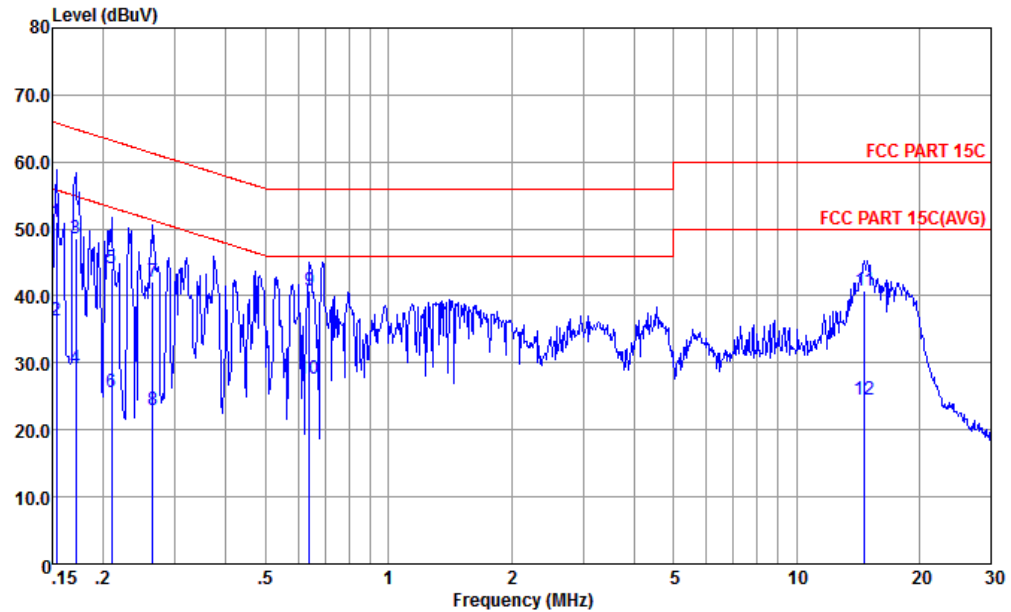






Appendix B. AC Conducted Emission Test Results

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.		

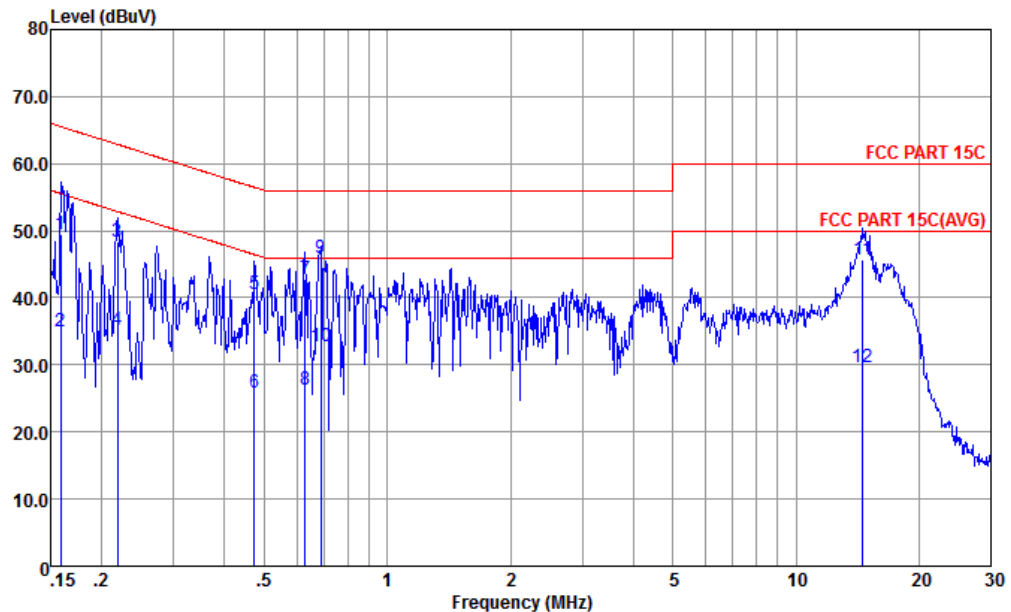


Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.153	50.99	-14.83	65.82	40.50	0.02	10.47	QP
2	0.153	36.39	-19.43	55.82	25.90	0.02	10.47	Average
3	0.171	48.66	-16.24	64.90	38.20	0.03	10.43	QP
4	0.171	29.26	-25.64	54.90	18.80	0.03	10.43	Average
5	0.209	44.20	-19.03	63.23	33.80	0.04	10.36	QP
6	0.209	25.60	-27.63	53.23	15.20	0.04	10.36	Average
7	0.264	42.19	-19.10	61.29	31.81	0.06	10.32	QP
8	0.264	22.89	-28.40	51.29	12.51	0.06	10.32	Average
9	0.641	40.84	-15.16	56.00	30.49	0.11	10.24	QP
10	0.641	27.54	-18.46	46.00	17.19	0.11	10.24	Average
11	14.672	40.89	-19.11	60.00	30.20	0.30	10.39	QP
12	14.672	24.49	-25.51	50.00	13.80	0.30	10.39	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 : FCC PART 15C LISN-060105-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBμV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBμV	dBμV	dB	dB	
1	0.159	49.36	-16.16	65.52	38.79	0.11	10.46	QP
2	0.159	35.06	-20.46	55.52	24.49	0.11	10.46	Average
3	0.219	48.25	-14.63	62.88	37.80	0.10	10.35	QP
4	0.219	35.25	-17.63	52.88	24.80	0.10	10.35	Average
5	0.474	40.55	-15.90	56.45	30.20	0.11	10.24	QP
6	0.474	25.95	-20.50	46.45	15.60	0.11	10.24	Average
7	0.630	42.85	-13.15	56.00	32.50	0.11	10.24	QP
8	0.630	26.25	-19.75	46.00	15.90	0.11	10.24	Average
9 *	0.686	45.85	-10.15	56.00	35.50	0.11	10.24	QP
10	0.686	32.65	-13.35	46.00	22.30	0.11	10.24	Average
11	14.594	45.60	-14.40	60.00	34.91	0.30	10.39	QP
12	14.594	29.60	-20.40	50.00	18.91	0.30	10.39	Average

Note:

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



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

BT (Band Edge @ 3m)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz	*	2480	104.16	-	-	96.42	31.13	7.28	30.67	100	0	P	H
		2480	79.38	-	-	-	-	-	-	-	-	A	H
		2496.1	55.13	-18.87	74	47.24	31.17	7.32	30.6	100	0	P	H
		2496.1	30.35	-23.65	54	-	-	-	-	-	-	A	H
	*	2480	101.63	-	-	93.89	31.13	7.28	30.67	300	30	P	V
		2480	76.85	-	-	-	-	-	-	-	-	A	V
		2491	54.67	-19.33	74	46.85	31.17	7.32	30.67	300	30	P	V
		2491	29.89	-24.11	54	-	-	-	-	-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4GHz 2400~2483.5MHz****BT (Harmonic @ 3m)**

BT	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
BT CH 78 2480MHz		4965	41.47	-32.53	74	62.25	34.28	10.41	65.47	300	0	P	H
		7440	41.11	-32.89	74	58.74	35.89	12.79	66.31	300	0	P	H
		4965	40.93	-33.07	74	61.71	34.28	10.41	65.47	100	0	P	V
		7440	41.46	-32.54	74	59.09	35.89	12.79	66.31	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz BT (LF)

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz BT LF		32.91	22.2	-17.8	40	28.67	23.71	0.54	30.72	-	-	P	H
		123.12	18.3	-25.2	43.5	29.92	17.55	1.6	30.77	-	-	P	H
		168.71	20.19	-23.31	43.5	33.24	15.91	1.88	30.84	-	-	P	H
		192.96	22.74	-20.76	43.5	36.57	15.03	2.03	30.89	-	-	P	H
		217.21	21.94	-24.06	46	35.38	15.32	2.15	30.91	-	-	P	H
		269.59	25.22	-20.78	46	34.49	19.31	2.39	30.97	-	-	P	H
		30.97	26.25	-13.75	40	31.36	25.09	0.51	30.71	-	-	P	V
		48.43	22.02	-17.98	40	36.59	15.45	0.75	30.77	-	-	P	V
		91.11	22.43	-21.07	43.5	36.85	14.96	1.34	30.72	-	-	P	V
		191.02	23.68	-19.82	43.5	37.51	15.04	2.02	30.89	-	-	P	V
		217.21	21.26	-24.74	46	34.7	15.32	2.15	30.91	-	-	P	V
		726.46	27.86	-18.14	46	29.27	27.11	3.93	32.45	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

BT	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 00 2402MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

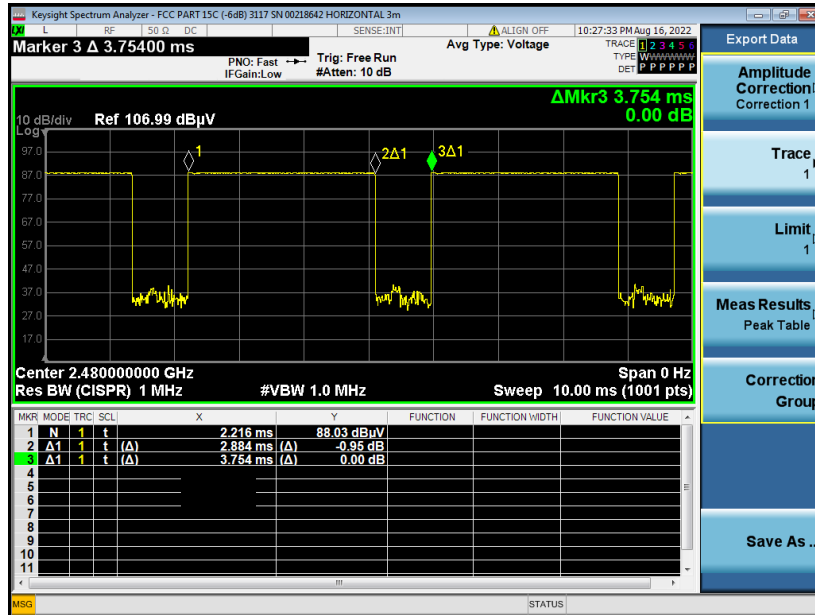
= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

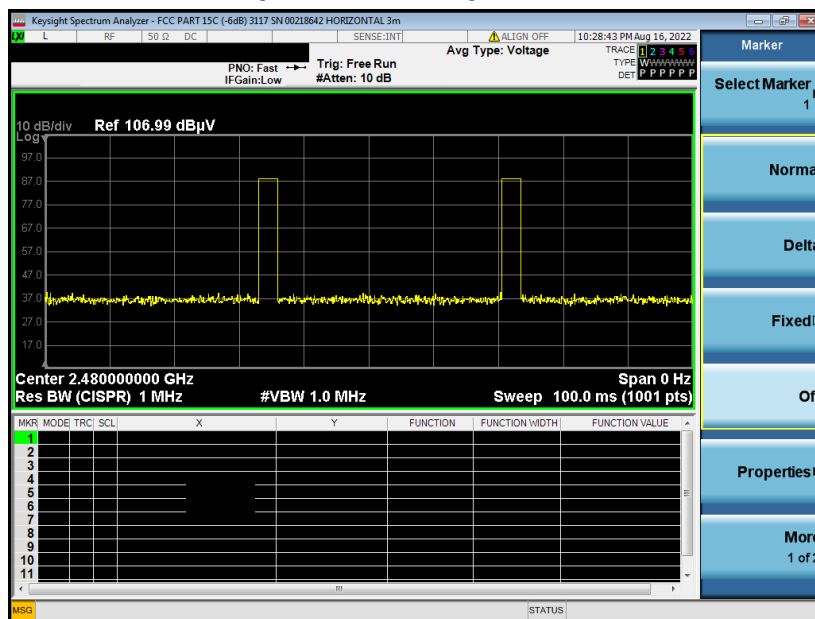
Both peak and average measured complies with the limit line, so test result is “PASS”.

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 = $2 * 2.884 / 100 = 5.77 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.78 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.