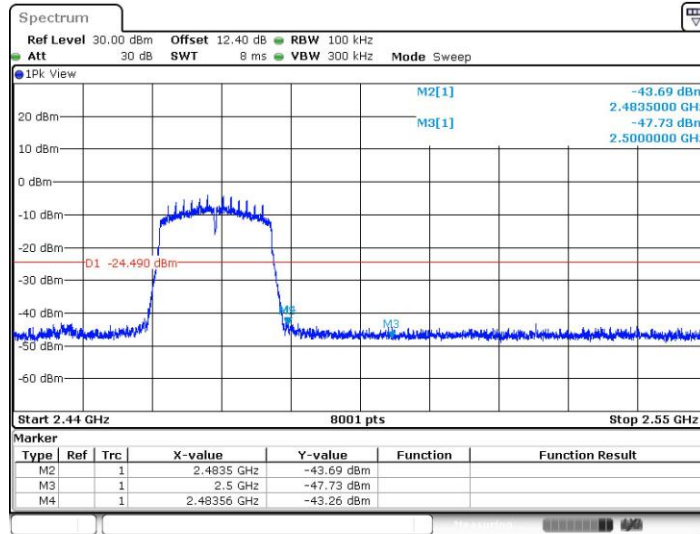
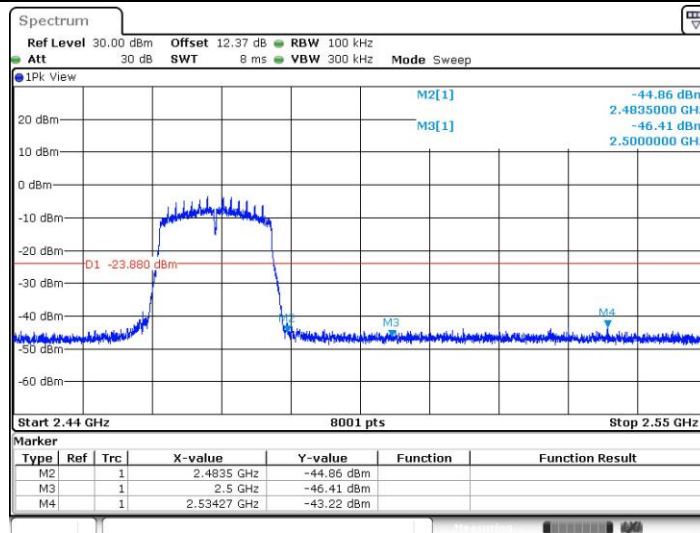




11N20SISO\_Ant1\_High\_2472



11N20SISO\_Ant2\_High\_2472





### Conducted Spurious Emission

#### Test Result

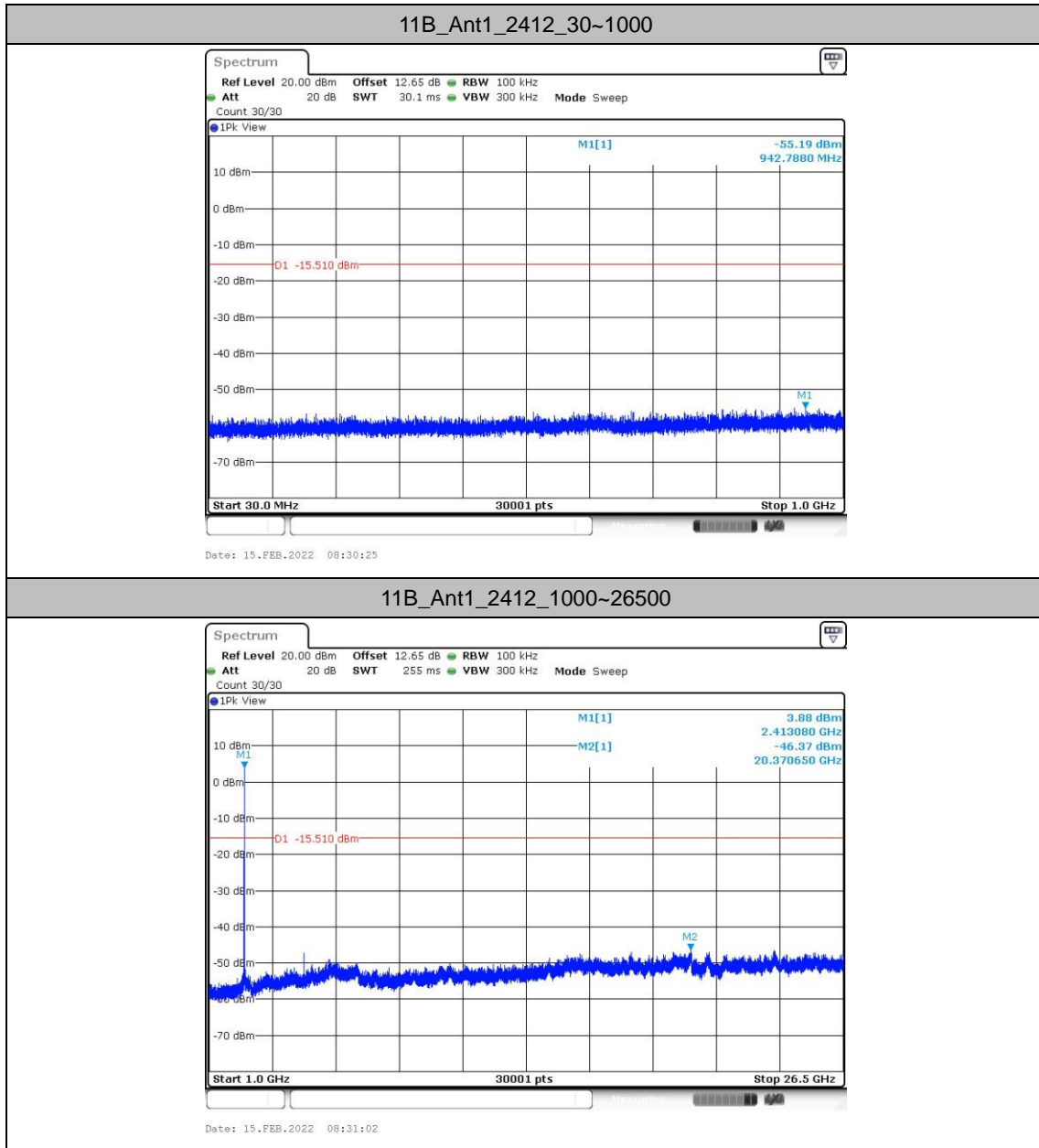
TestMode	Antenna	Frequency[MHz]	Freq Range [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	30~1000	4.49	-55.19	≤-15.51	PASS
			1000~26500	4.49	-46.37	≤-15.51	PASS
	Ant2	2412	30~1000	6.42	-53.75	≤-13.58	PASS
			1000~26500	6.42	-45.97	≤-13.58	PASS
	Ant1	2437	30~1000	4.46	-54.95	≤-15.54	PASS
			1000~26500	4.46	-46.09	≤-15.54	PASS
	Ant2	2437	30~1000	6.61	-54.73	≤-13.39	PASS
			1000~26500	6.61	-45.98	≤-13.39	PASS
	Ant1	2462	30~1000	5.17	-54.95	≤-14.83	PASS
			1000~26500	5.17	-45.29	≤-14.83	PASS
	Ant2	2462	30~1000	6.45	-54.22	≤-13.55	PASS
			1000~26500	6.45	-46.5	≤-13.55	PASS
	Ant1	2467	30~1000	5.25	-53.84	≤-14.75	PASS
			1000~26500	5.25	-44.89	≤-14.75	PASS
	Ant2	2467	30~1000	6.50	-55.08	≤-13.5	PASS
			1000~26500	6.50	-46.26	≤-13.5	PASS
	Ant1	2472	30~1000	4.86	-55.16	≤-15.14	PASS
			1000~26500	4.86	-45.22	≤-15.14	PASS
Ant2	2472	30~1000	6.23	-55.31	≤-13.77	PASS	
		1000~26500	6.23	-46.44	≤-13.77	PASS	
11G	Ant1	2412	30~1000	1.67	-55.21	≤-18.33	PASS
			1000~26500	1.67	-46.33	≤-18.33	PASS
	Ant2	2412	30~1000	1.68	-54.77	≤-18.32	PASS
			1000~26500	1.68	-45.11	≤-18.32	PASS
	Ant1	2437	30~1000	1.76	-55.36	≤-18.24	PASS
			1000~26500	1.76	-46.11	≤-18.24	PASS
	Ant2	2437	30~1000	2.01	-55.11	≤-17.99	PASS
			1000~26500	2.01	-46.52	≤-17.99	PASS
	Ant1	2462	30~1000	1.81	-55.28	≤-18.19	PASS
			1000~26500	1.81	-46.12	≤-18.19	PASS
	Ant2	2462	30~1000	2.24	-55.1	≤-17.76	PASS
			1000~26500	2.24	-45.67	≤-17.76	PASS
	Ant1	2467	30~1000	-0.24	-55.41	≤-20.24	PASS
			1000~26500	-0.24	-44.52	≤-20.24	PASS
	Ant2	2467	30~1000	-0.55	-55.43	≤-20.55	PASS
			1000~26500	-0.55	-45.81	≤-20.55	PASS
	Ant1	2472	30~1000	-2.20	-55.57	≤-22.2	PASS
			1000~26500	-2.20	-45.8	≤-22.2	PASS
Ant2	2472	30~1000	-2.79	-39.25	≤-22.79	PASS	
		1000~26500	-2.79	-46.19	≤-22.79	PASS	

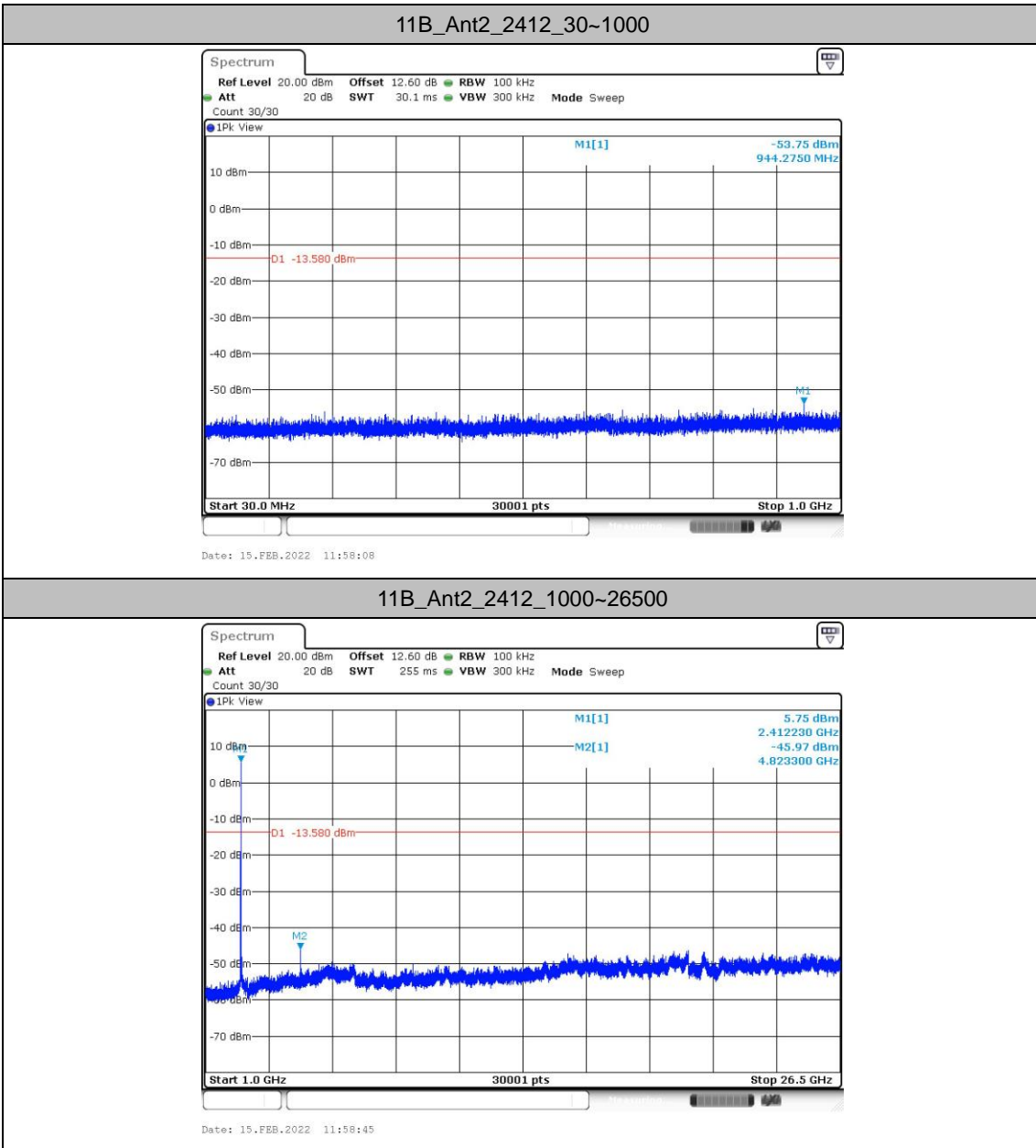


11N20SISO	Ant1	2412	30~1000	0.78	-55.38	≤-19.22	PASS
			1000~26500	0.78	-46.24	≤-19.22	PASS
	Ant2	2412	30~1000	1.92	-55.38	≤-18.08	PASS
			1000~26500	1.92	-46.12	≤-18.08	PASS
	Ant1	2437	30~1000	1.51	-55.32	≤-18.49	PASS
			1000~26500	1.51	-46.51	≤-18.49	PASS
	Ant2	2437	30~1000	2.20	-55.53	≤-17.8	PASS
			1000~26500	2.20	-45.65	≤-17.8	PASS
	Ant1	2462	30~1000	1.44	-55.48	≤-18.56	PASS
			1000~26500	1.44	-46.3	≤-18.56	PASS
	Ant2	2462	30~1000	2.29	-54.7	≤-17.71	PASS
			1000~26500	2.29	-46.03	≤-17.71	PASS
	Ant1	2467	30~1000	-0.51	-55.38	≤-20.51	PASS
			1000~26500	-0.51	-46.05	≤-20.51	PASS
	Ant2	2467	30~1000	-0.08	-50.9	≤-20.08	PASS
			1000~26500	-0.08	-46.64	≤-20.08	PASS
	Ant1	2472	30~1000	-4.49	-55.43	≤-24.49	PASS
			1000~26500	-4.49	-46.35	≤-24.49	PASS
Ant2	2472	30~1000	-3.88	-51.99	≤-23.88	PASS	
		1000~26500	-3.88	-46.24	≤-23.88	PASS	



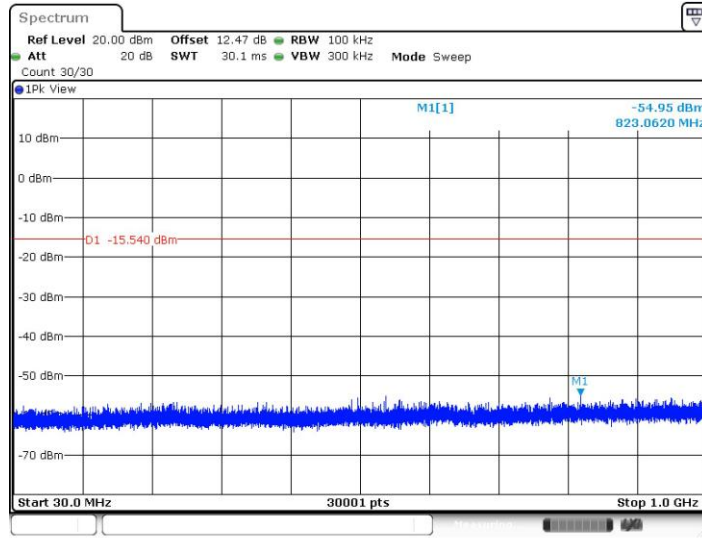
Test Graphs



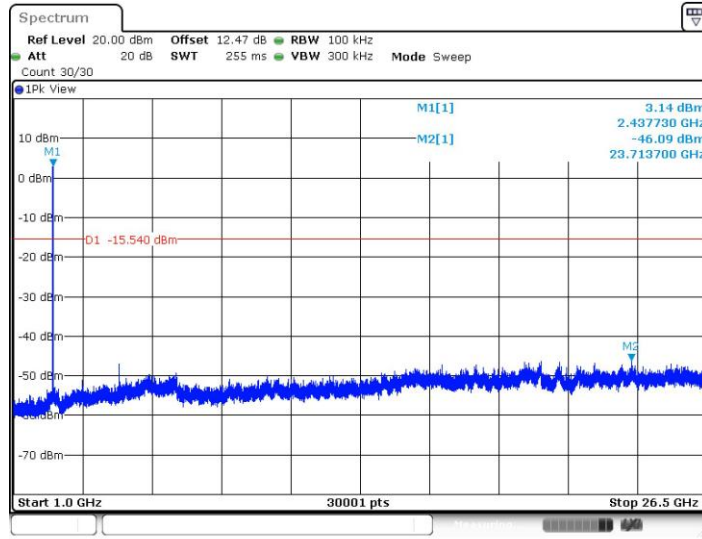




11B\_Ant1\_2437\_30~1000

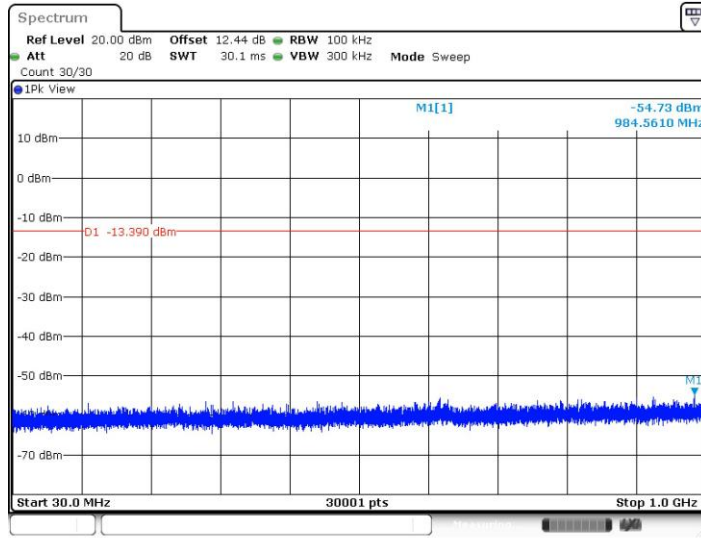


11B\_Ant1\_2437\_1000~26500



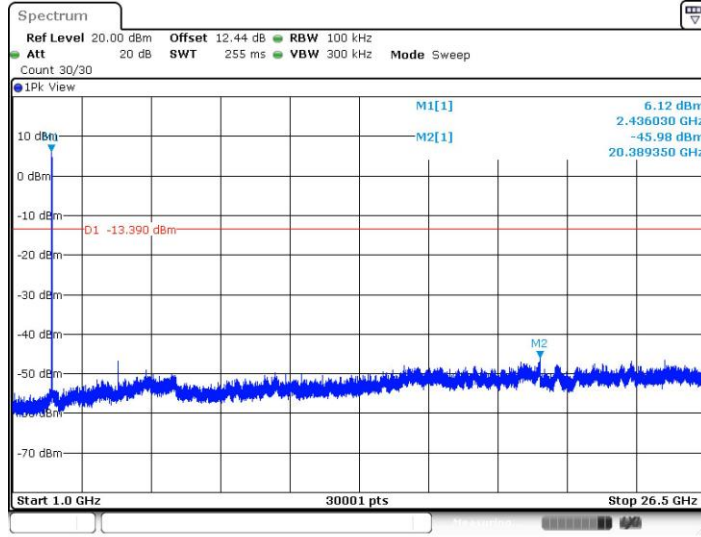


11B\_Ant2\_2437\_30~1000



Date: 15.FEB.2022 11:56:12

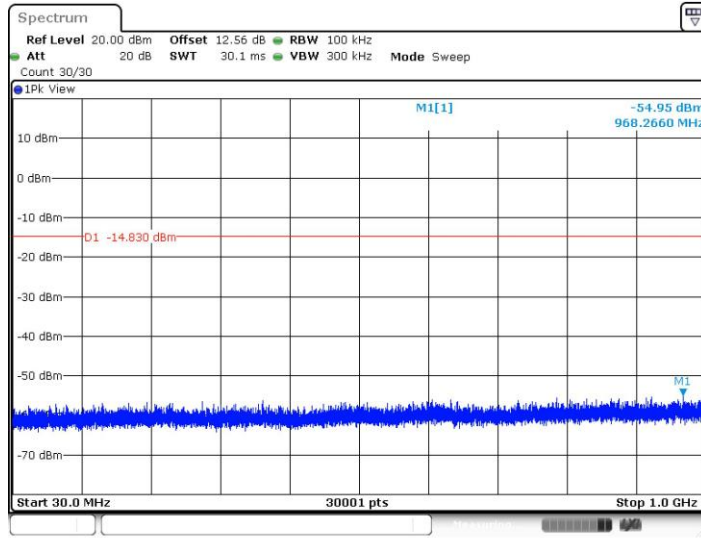
11B\_Ant2\_2437\_1000~26500



Date: 15.FEB.2022 11:56:49

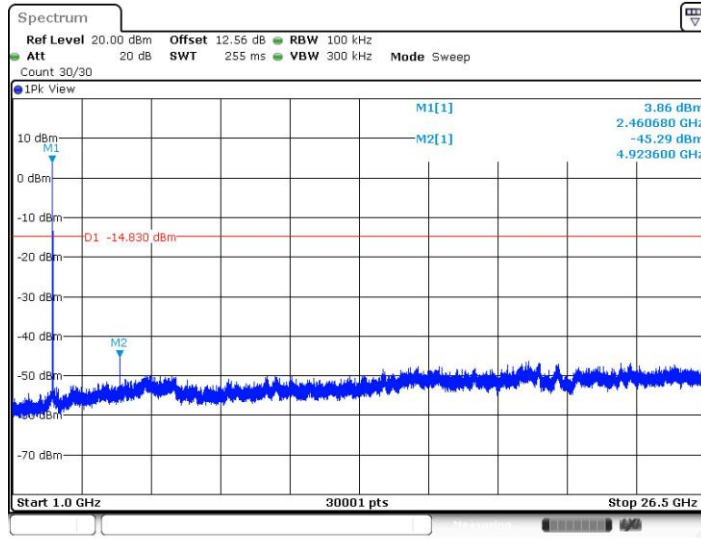


11B\_Ant1\_2462\_30~1000



Date: 15.FEB.2022 10:02:24

11B\_Ant1\_2462\_1000~26500

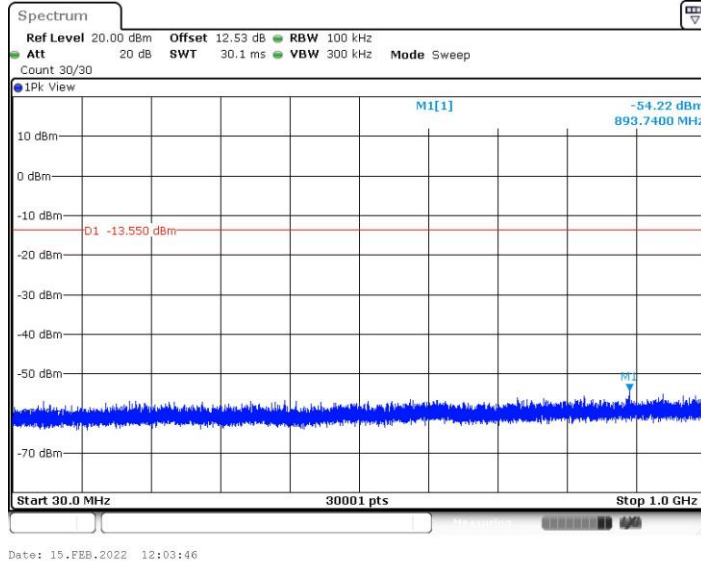


Date: 15.FEB.2022 10:03:00

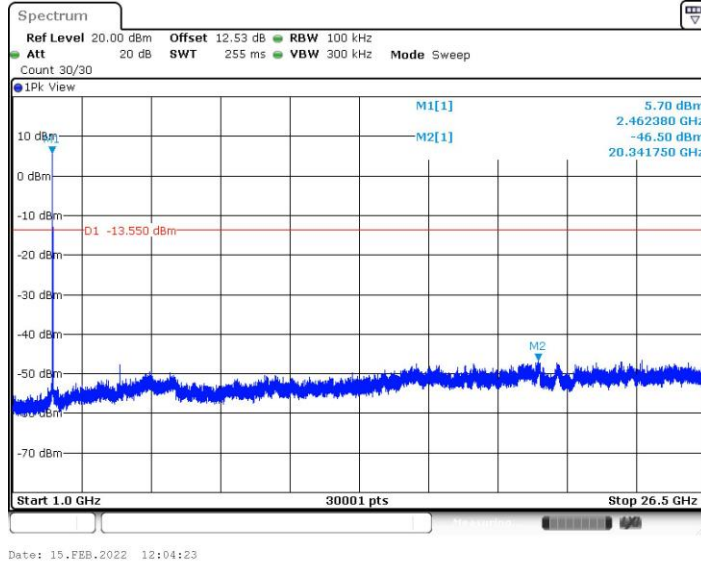




11B\_Ant2\_2462\_30~1000

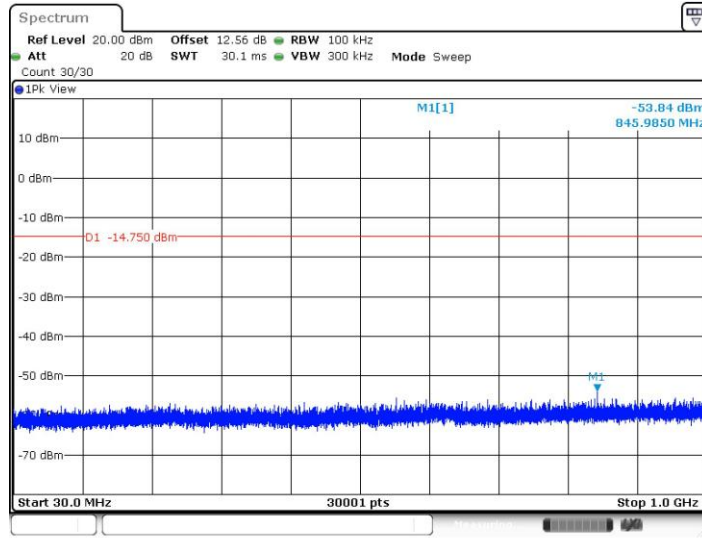


11B\_Ant2\_2462\_1000~26500



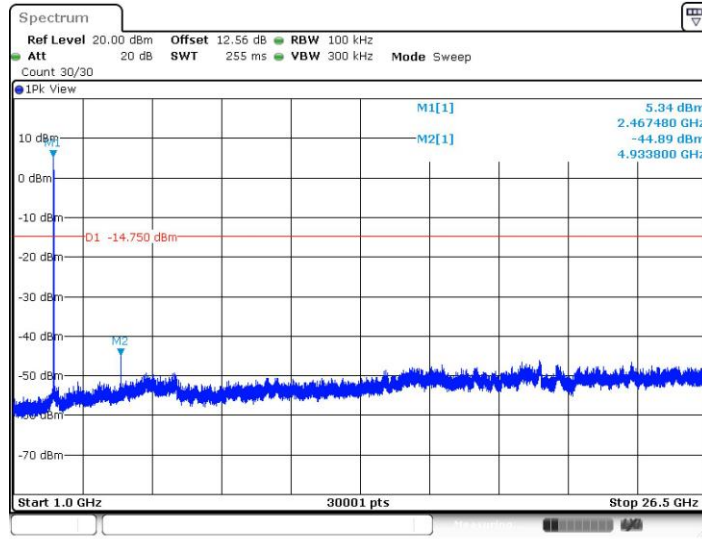


11B\_Ant1\_2467\_30~1000



Date: 15.FEB.2022 10:05:33

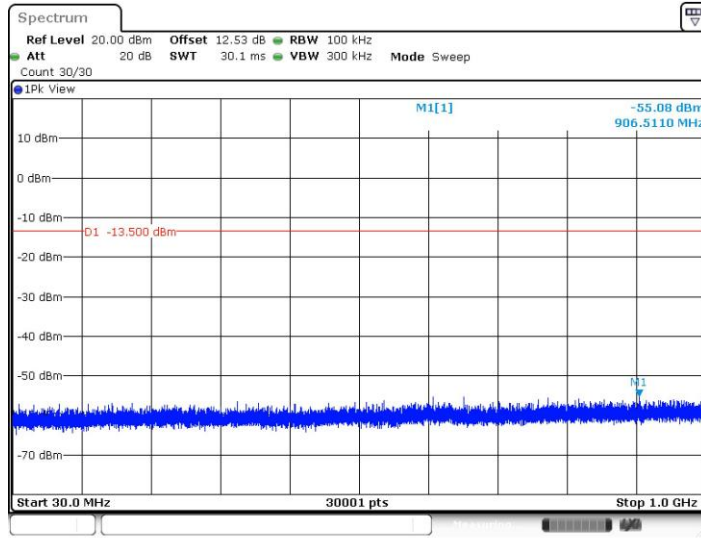
11B\_Ant1\_2467\_1000~26500



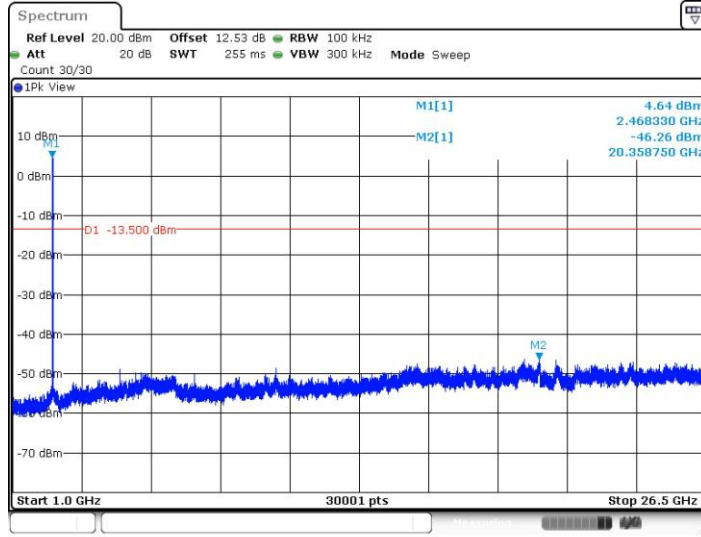
Date: 15.FEB.2022 10:06:10



11B\_Ant2\_2467\_30~1000

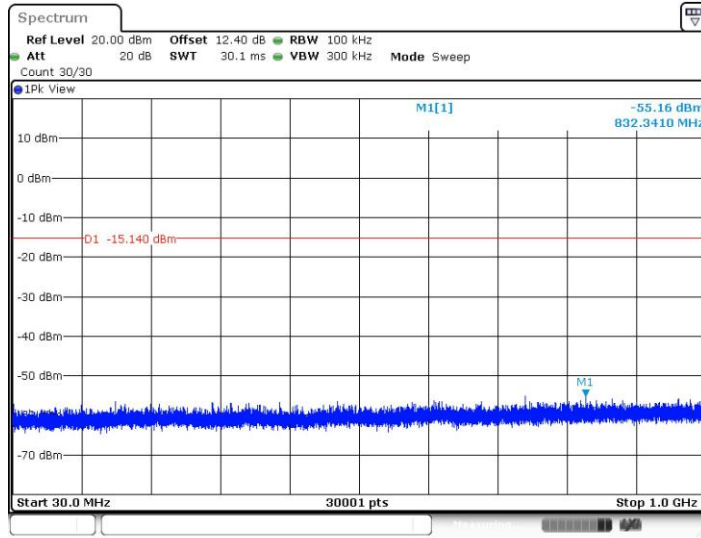


11B\_Ant2\_2467\_1000~26500

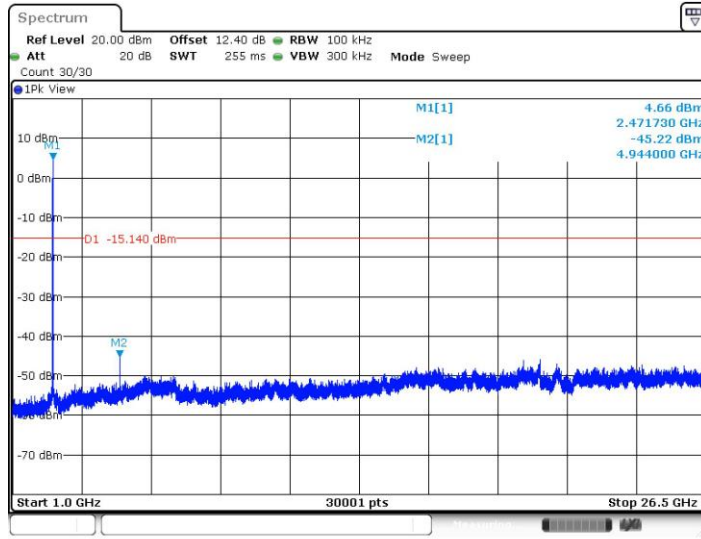




11B\_Ant1\_2472\_30~1000

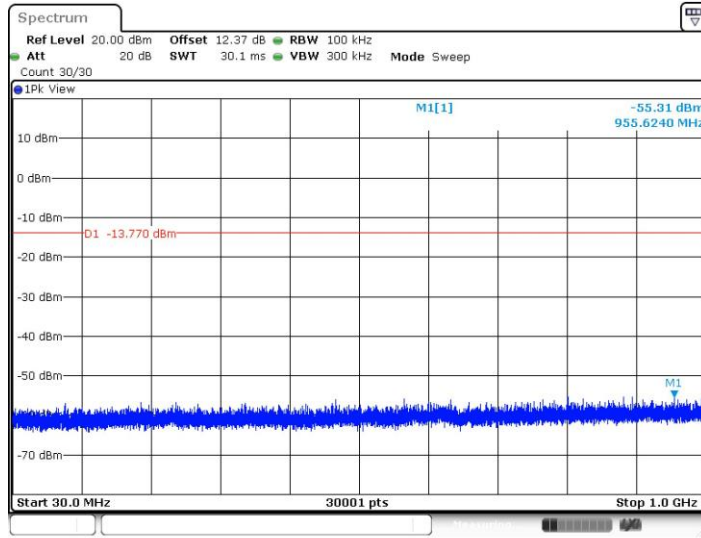


11B\_Ant1\_2472\_1000~26500



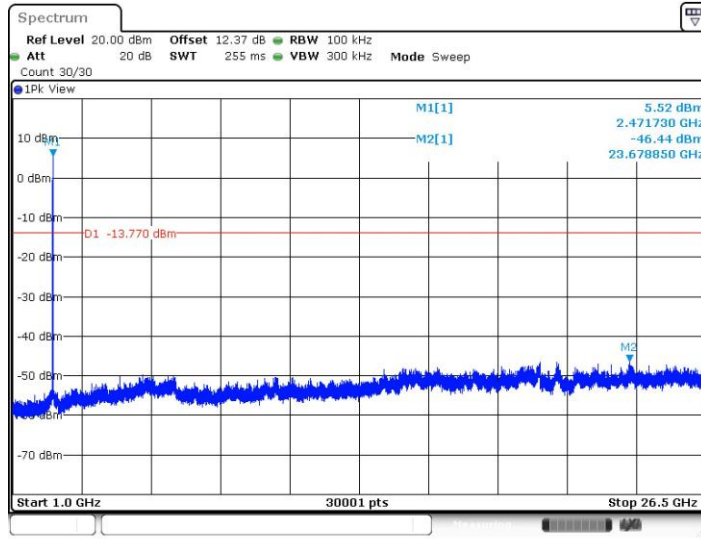


11B\_Ant2\_2472\_30~1000



Date: 15.FEB.2022 12:11:21

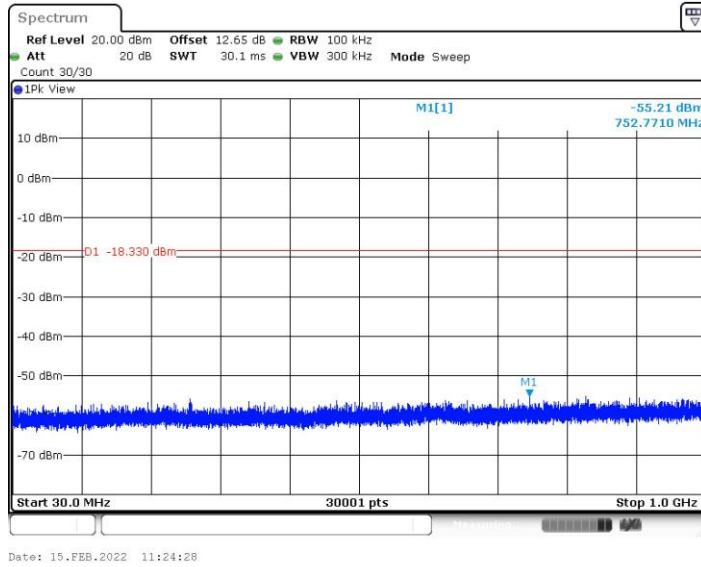
11B\_Ant2\_2472\_1000~26500



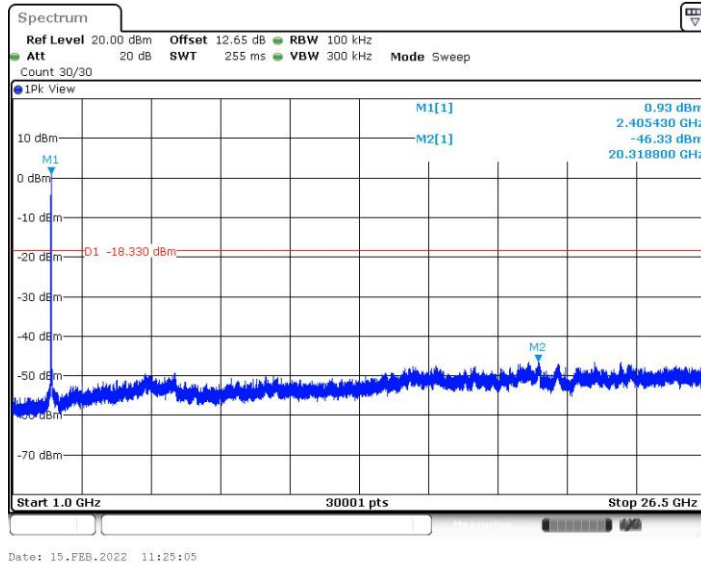
Date: 15.FEB.2022 12:11:58



11G\_Ant1\_2412\_30~1000

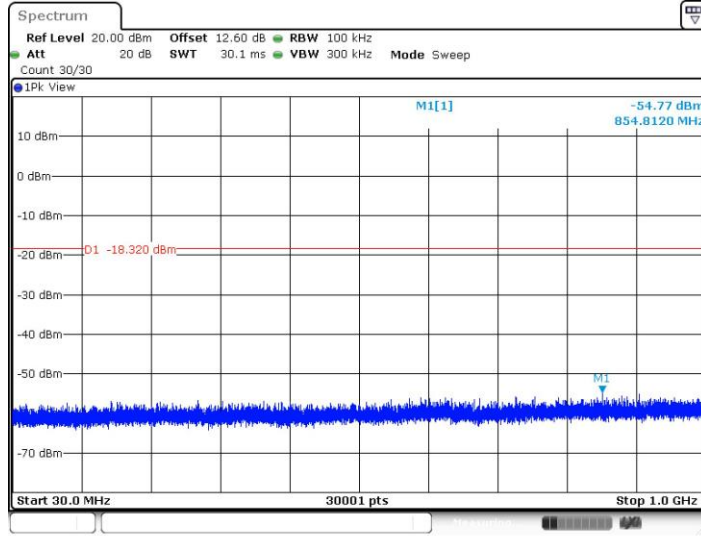


11G\_Ant1\_2412\_1000~26500



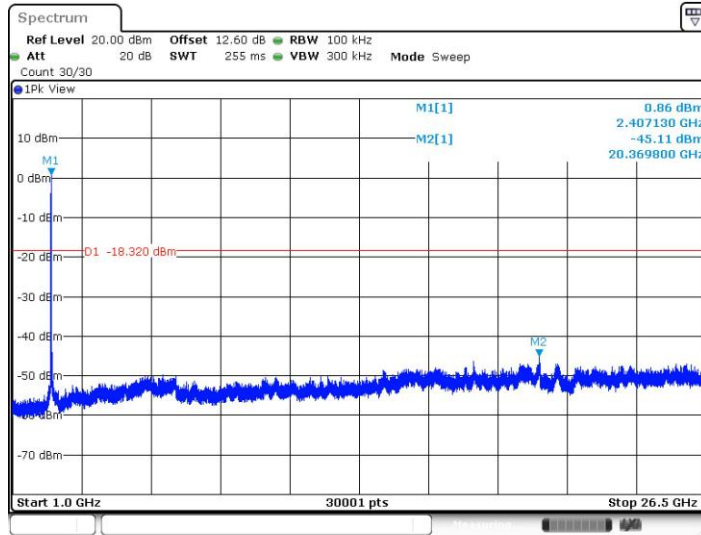


11G\_Ant2\_2412\_30~1000



Date: 15.FEB.2022 12:13:49

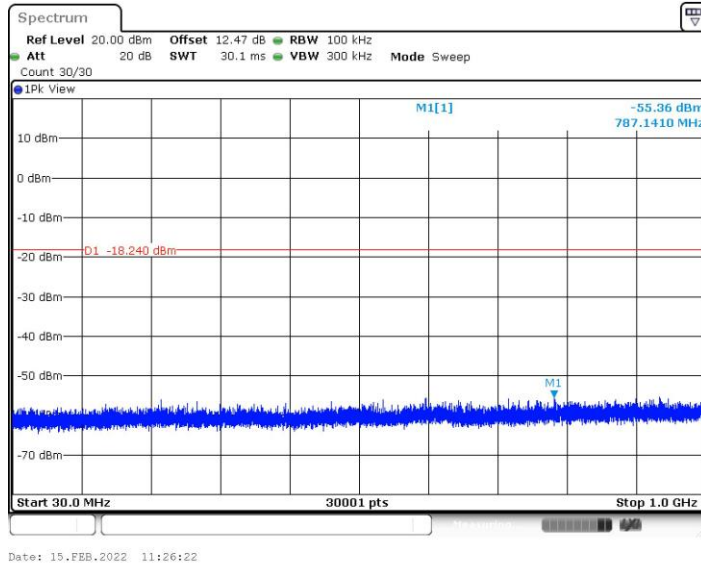
11G\_Ant2\_2412\_1000~26500



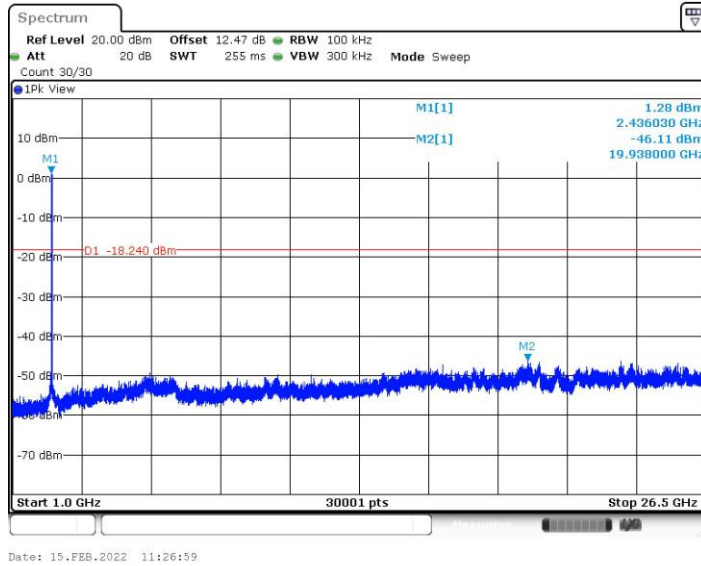
Date: 15.FEB.2022 12:14:26



11G\_Ant1\_2437\_30~1000



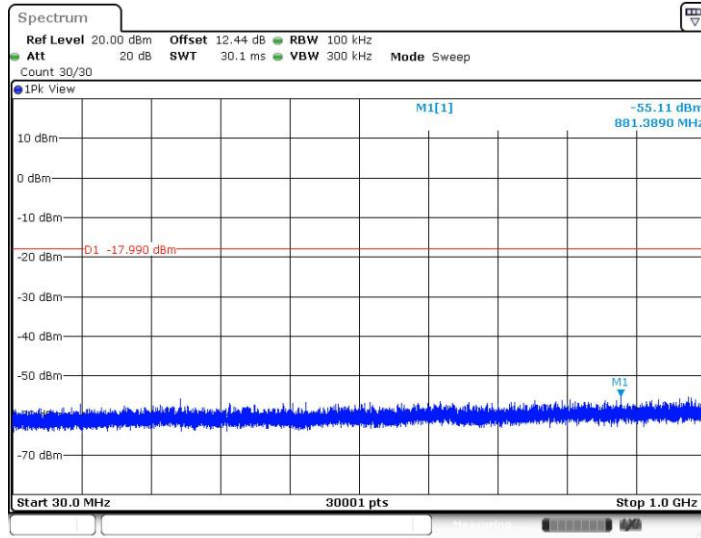
11G\_Ant1\_2437\_1000~26500



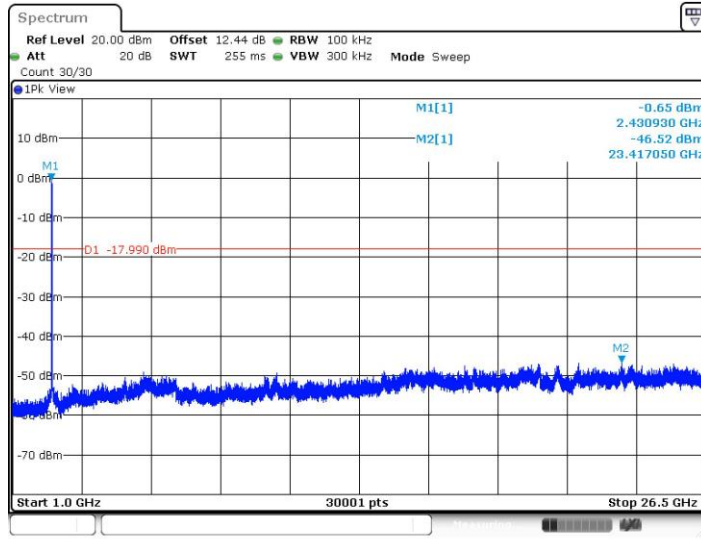




11G\_Ant2\_2437\_30~1000

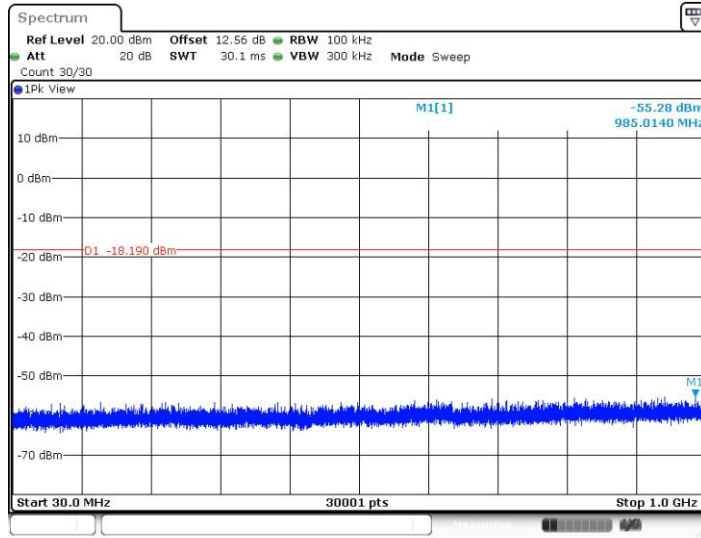


11G\_Ant2\_2437\_1000~26500

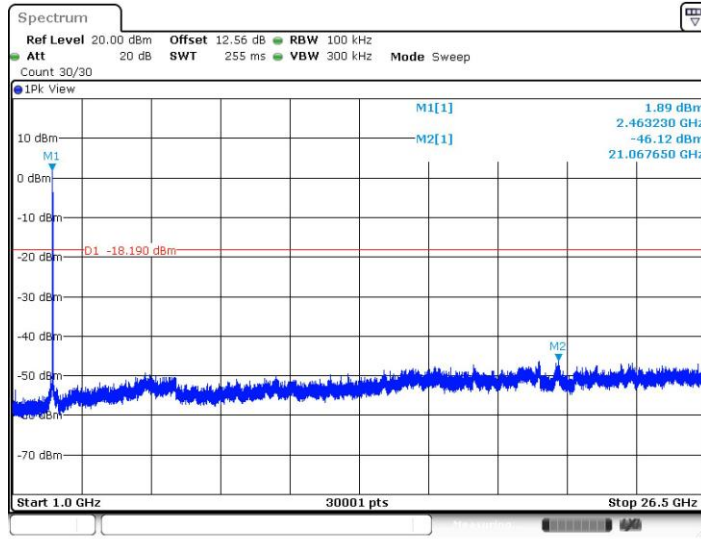




11G\_Ant1\_2462\_30~1000

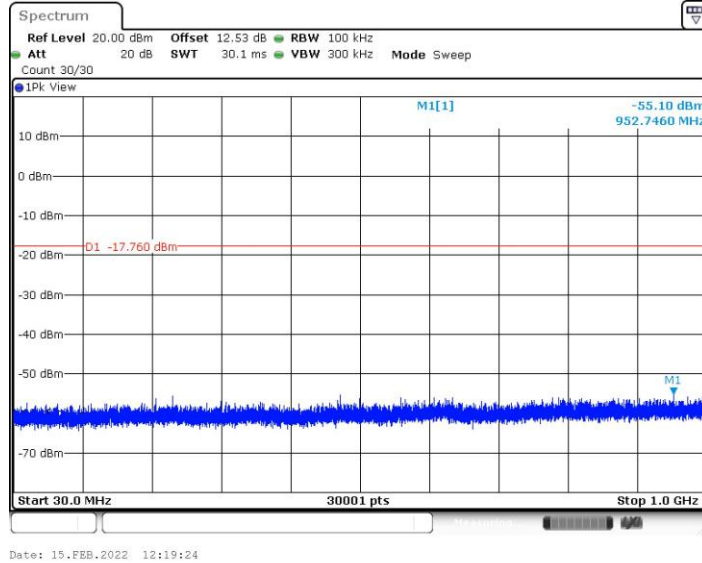


11G\_Ant1\_2462\_1000~26500

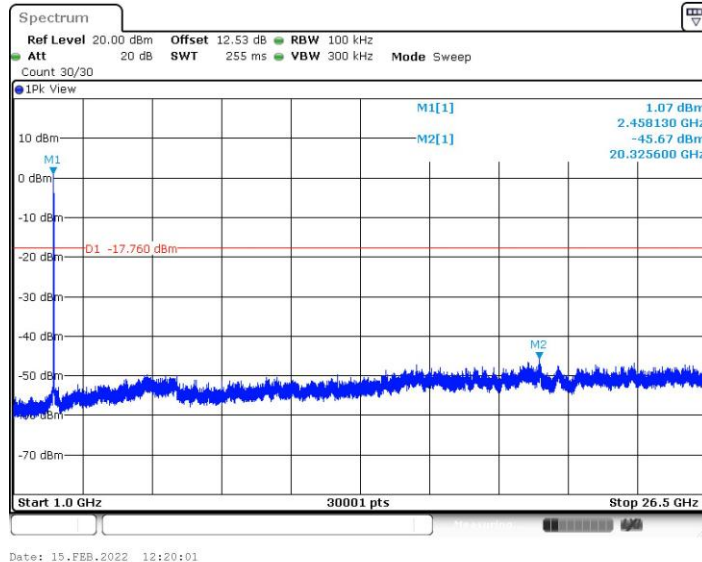


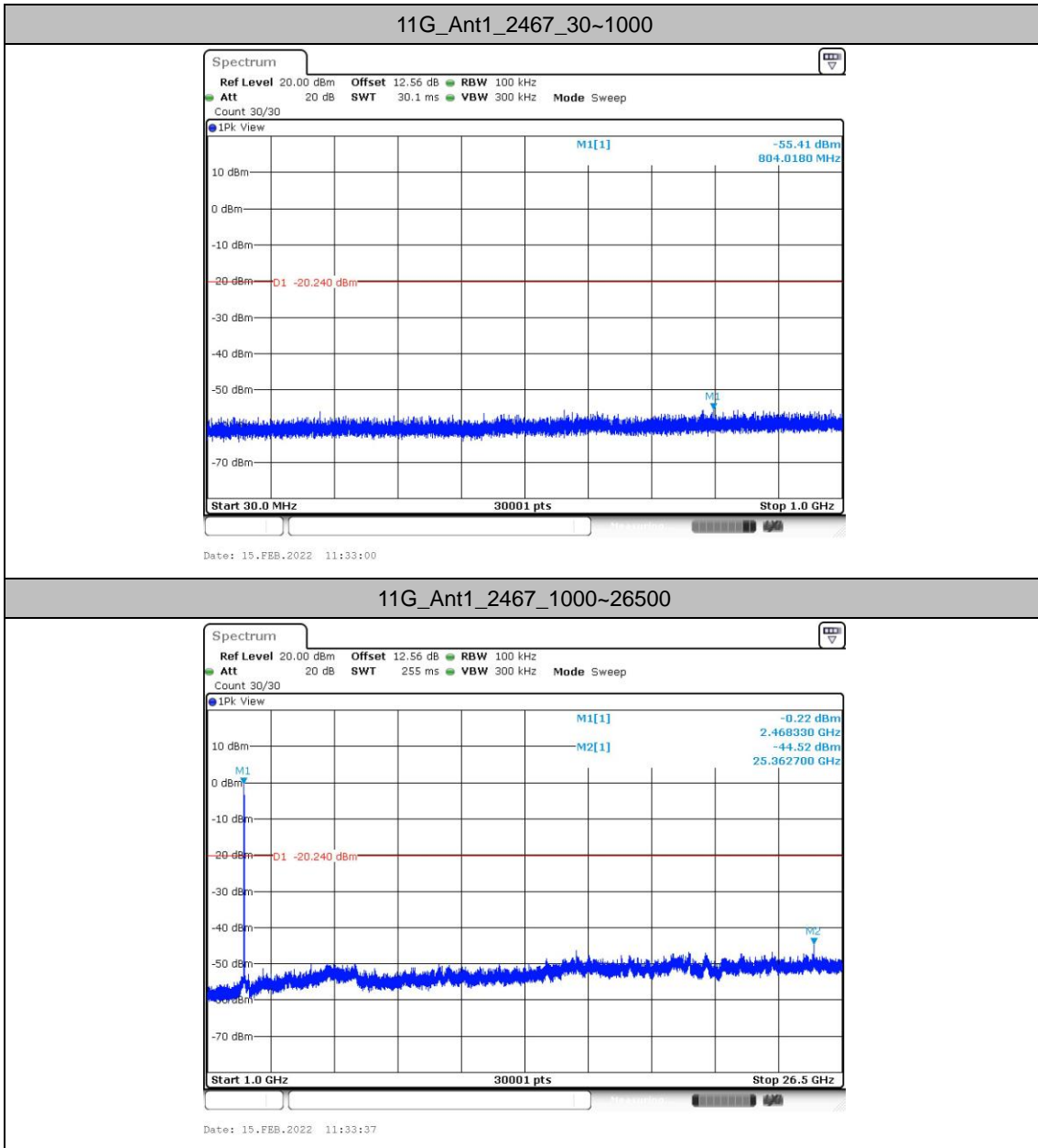


11G\_Ant2\_2462\_30~1000



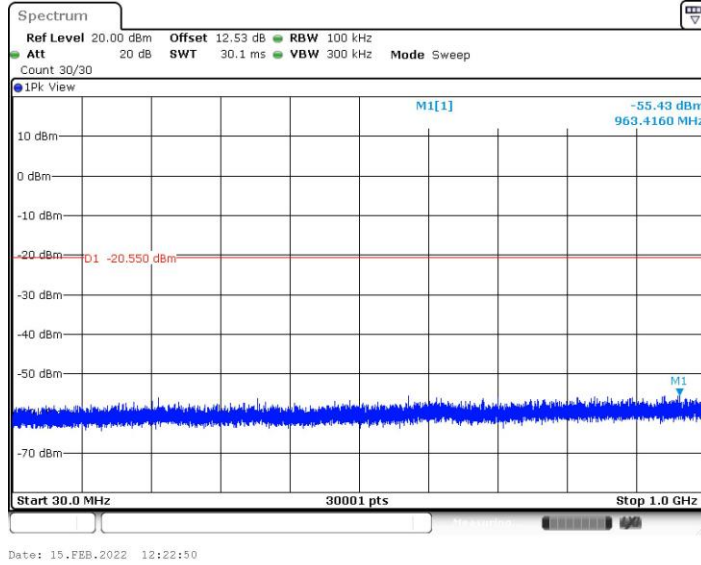
11G\_Ant2\_2462\_1000~26500



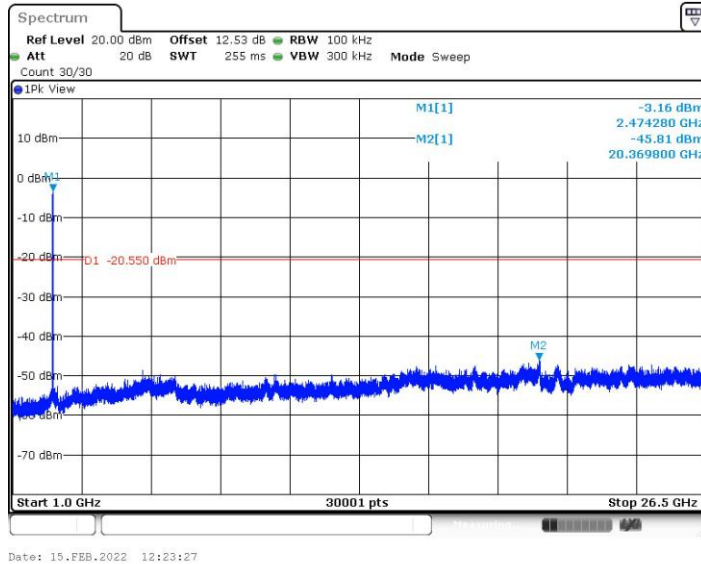




11G\_Ant2\_2467\_30~1000

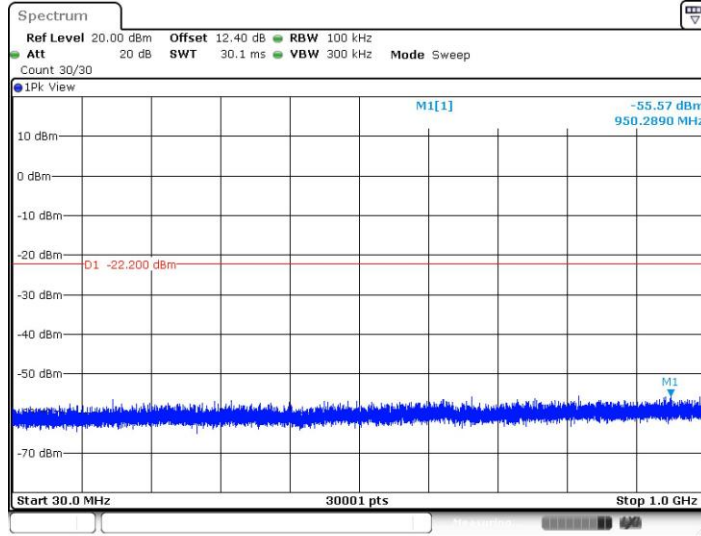


11G\_Ant2\_2467\_1000~26500



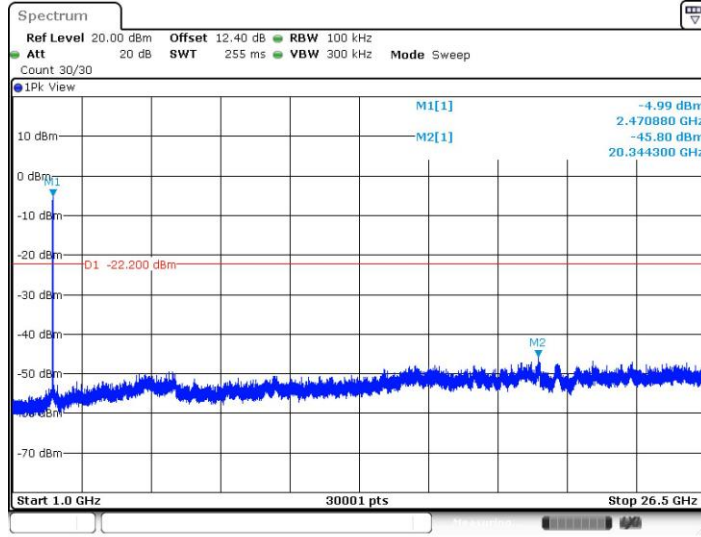


11G\_Ant1\_2472\_30~1000



Date: 15.FEB.2022 11:35:14

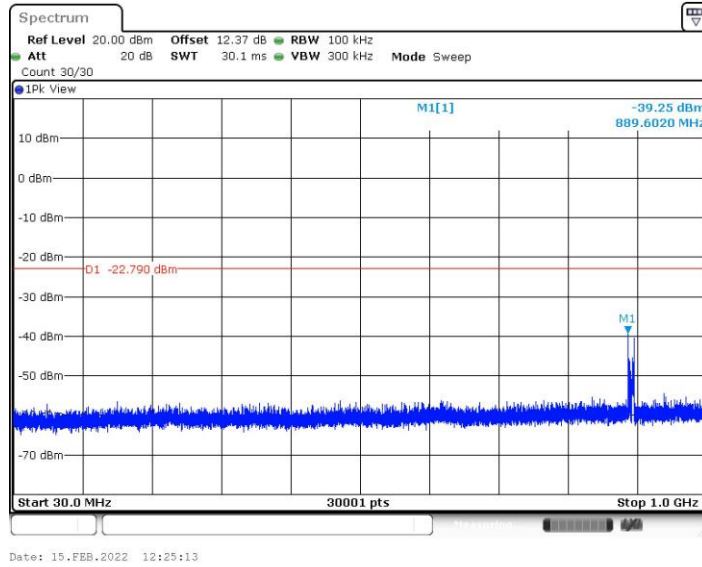
11G\_Ant1\_2472\_1000~26500



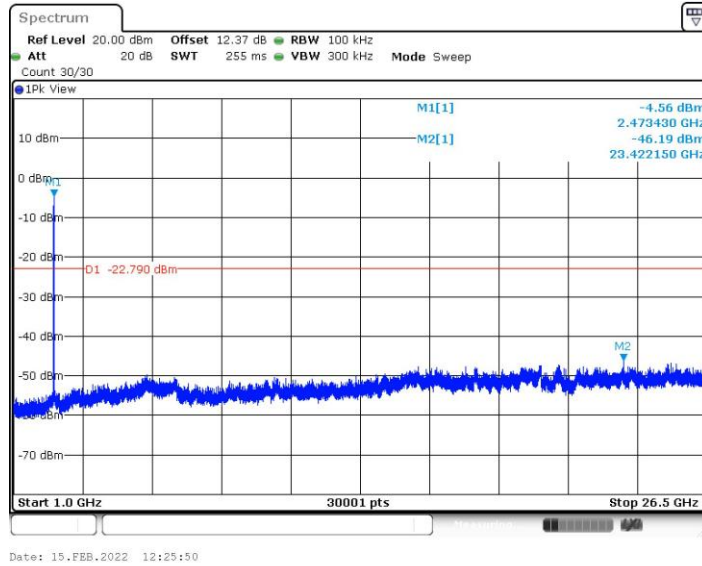
Date: 15.FEB.2022 11:35:50



11G\_Ant2\_2472\_30~1000

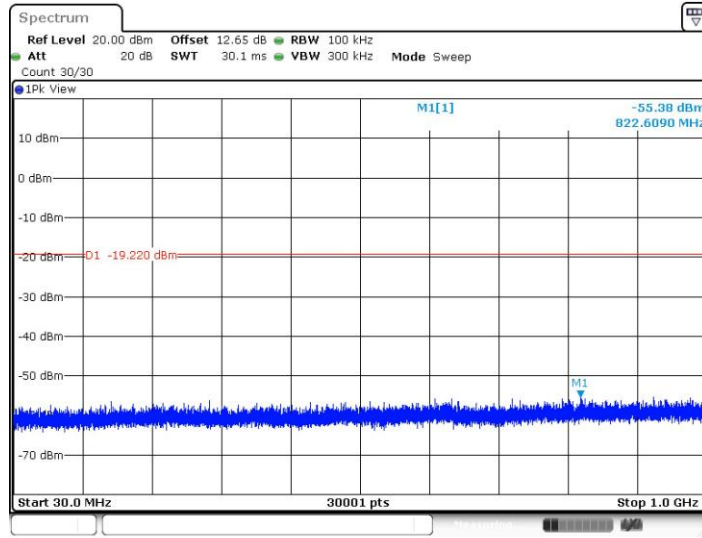


11G\_Ant2\_2472\_1000~26500



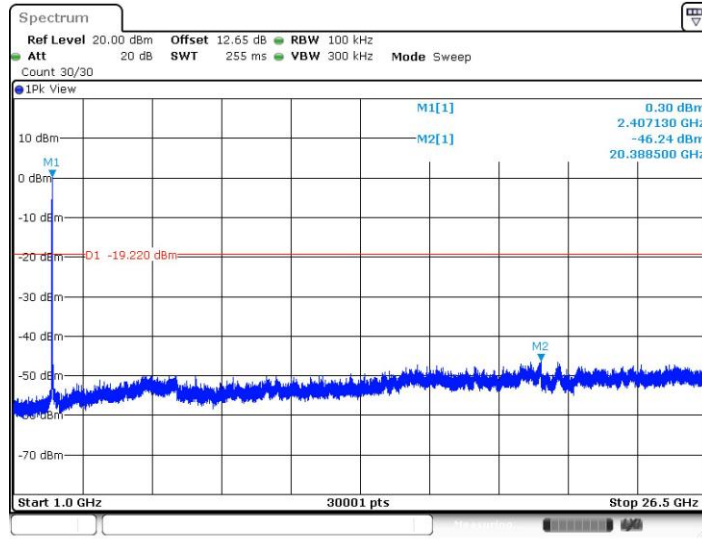


11N20SISO\_Ant1\_2412\_30~1000



Date: 15.FEB.2022 11:37:40

11N20SISO\_Ant1\_2412\_1000~26500

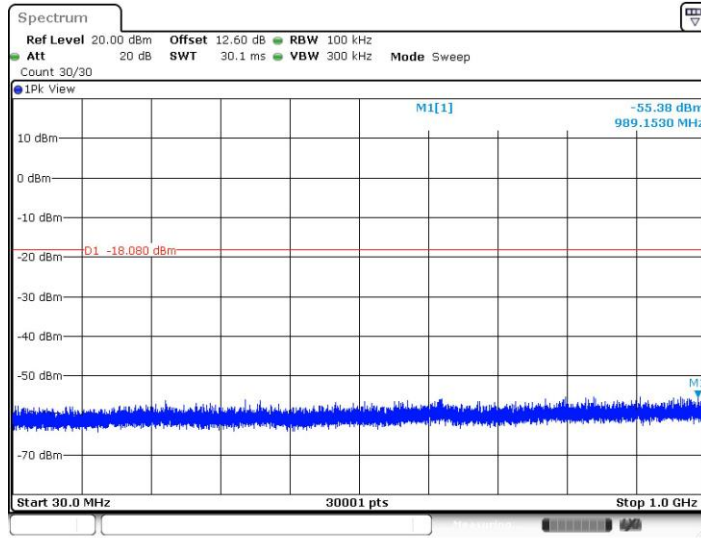


Date: 15.FEB.2022 11:38:17



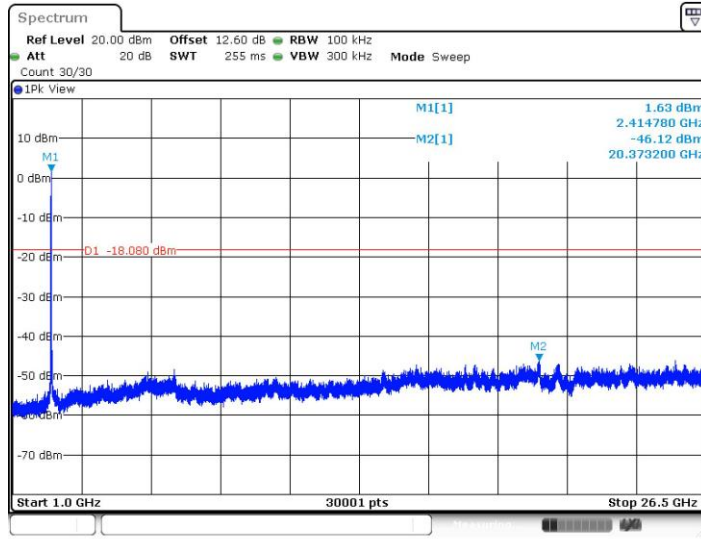


11N20SISO\_Ant2\_2412\_30~1000

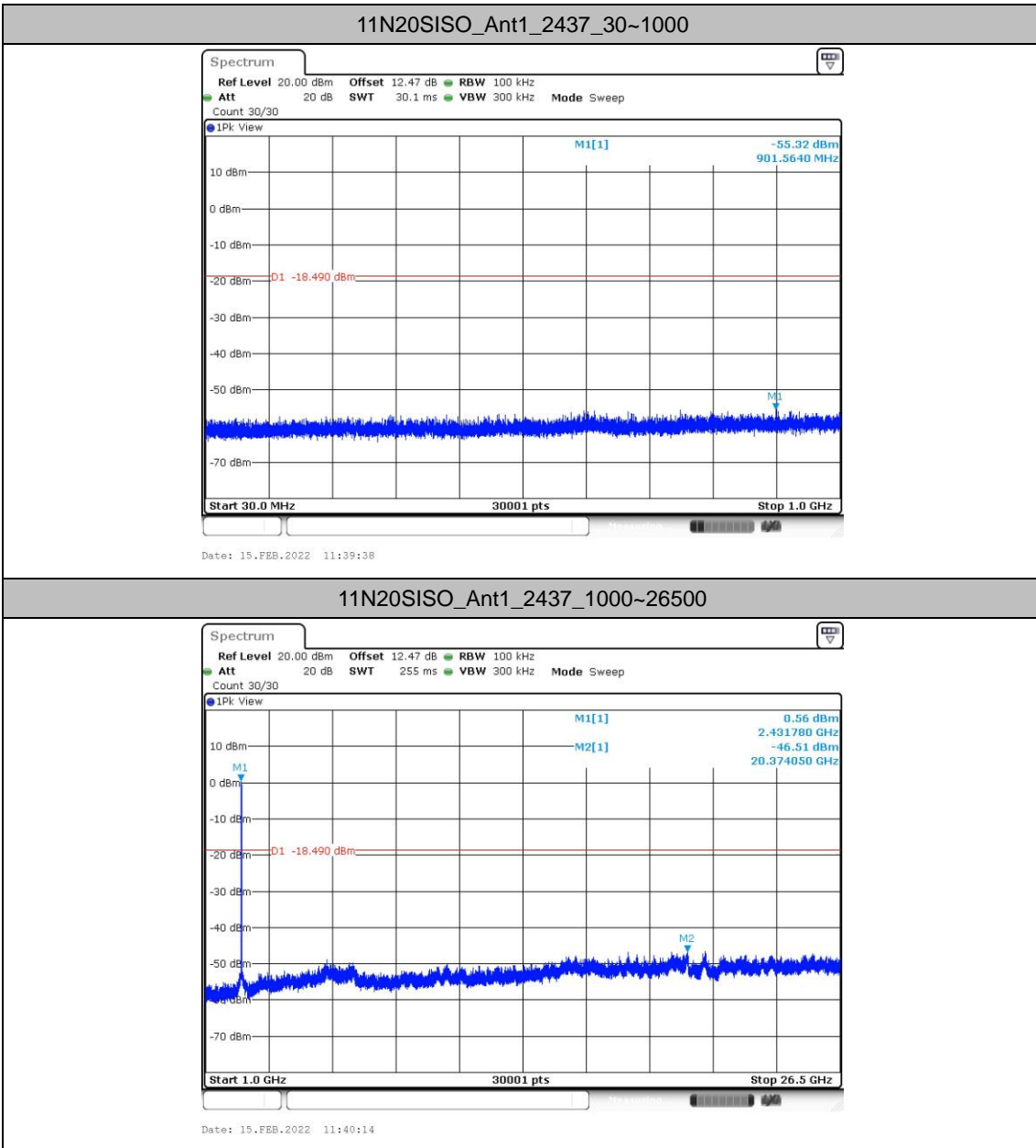


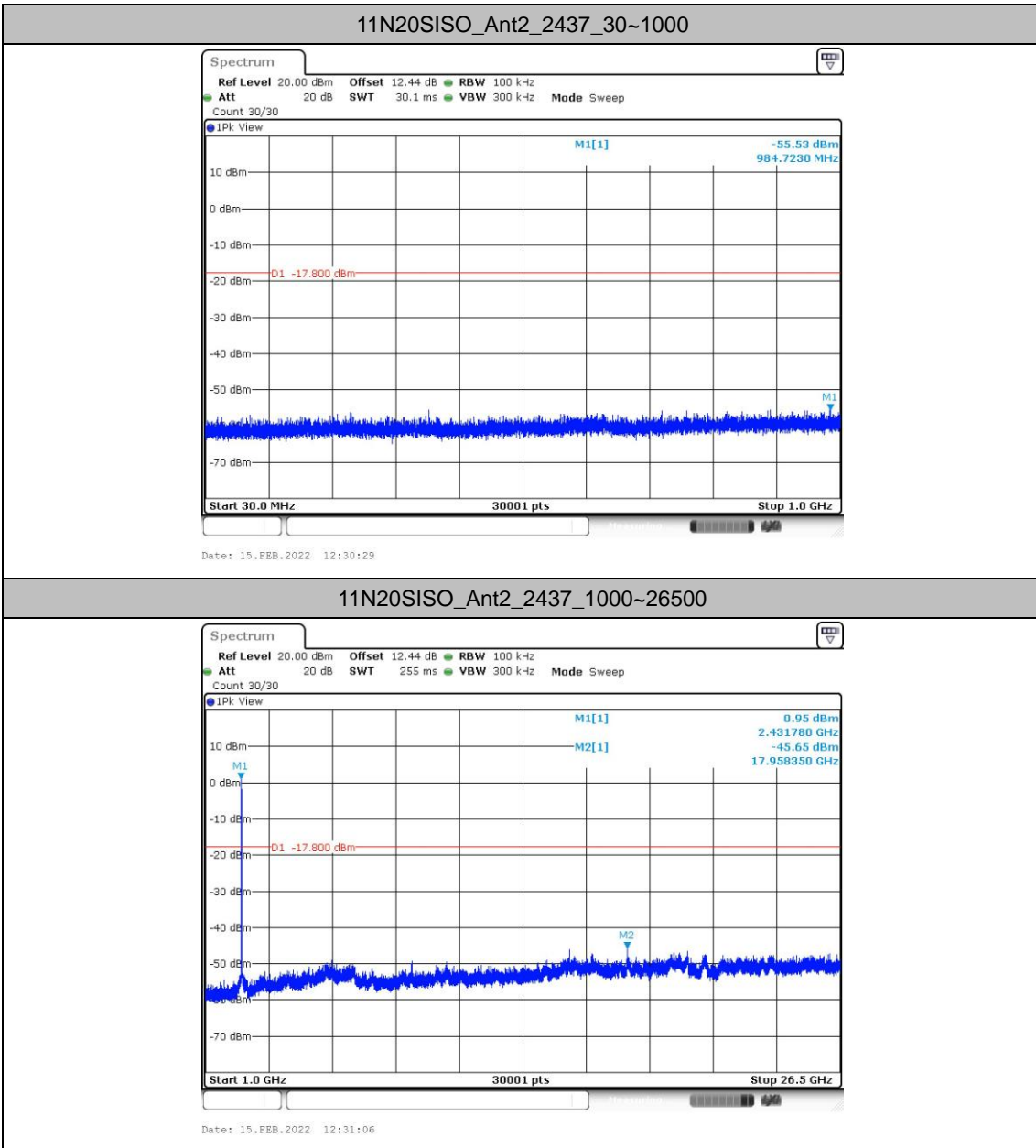
Date: 15.FEB.2022 12:28:00

11N20SISO\_Ant2\_2412\_1000~26500



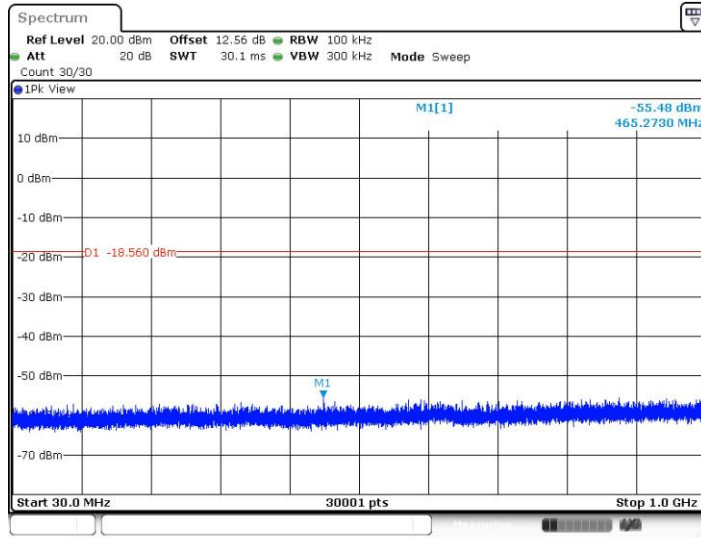
Date: 15.FEB.2022 12:28:37





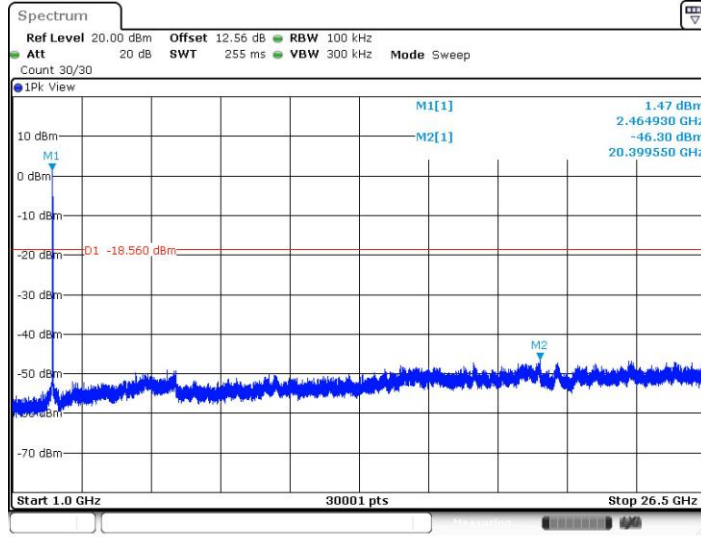


11N20SISO\_Ant1\_2462\_30~1000



Date: 15.FEB.2022 11:41:52

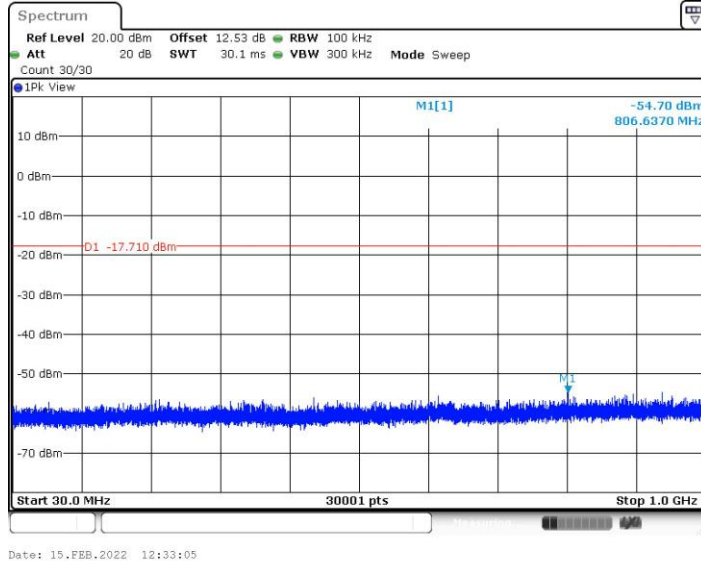
11N20SISO\_Ant1\_2462\_1000~26500



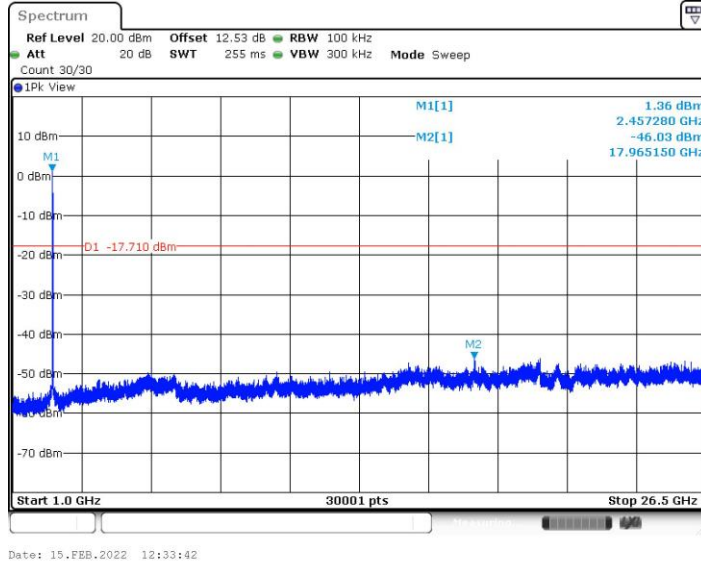
Date: 15.FEB.2022 11:42:29



11N20SISO\_Ant2\_2462\_30~1000

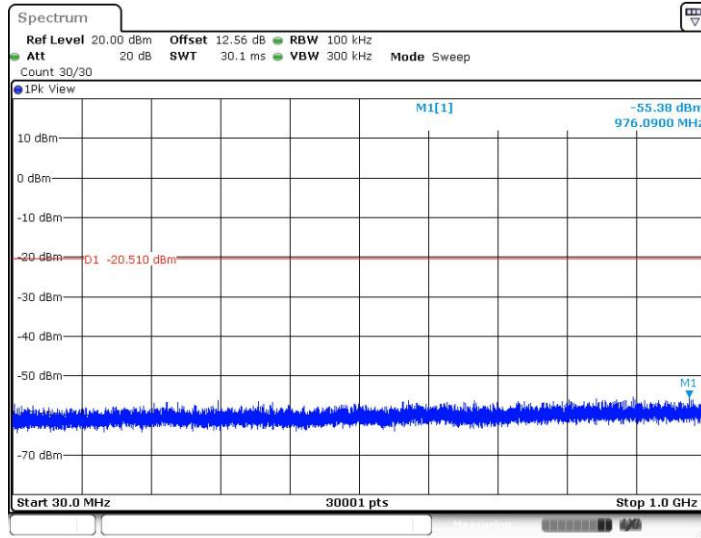


11N20SISO\_Ant2\_2462\_1000~26500



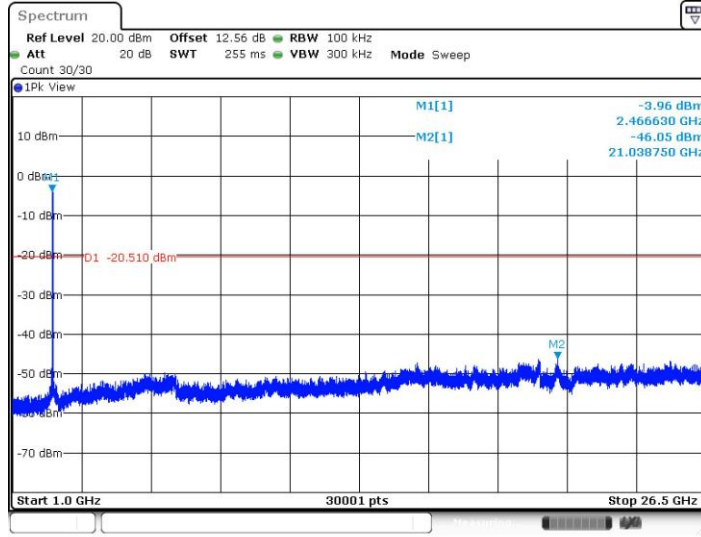


11N20SISO\_Ant1\_2467\_30~1000



Date: 15.FEB.2022 11:44:08

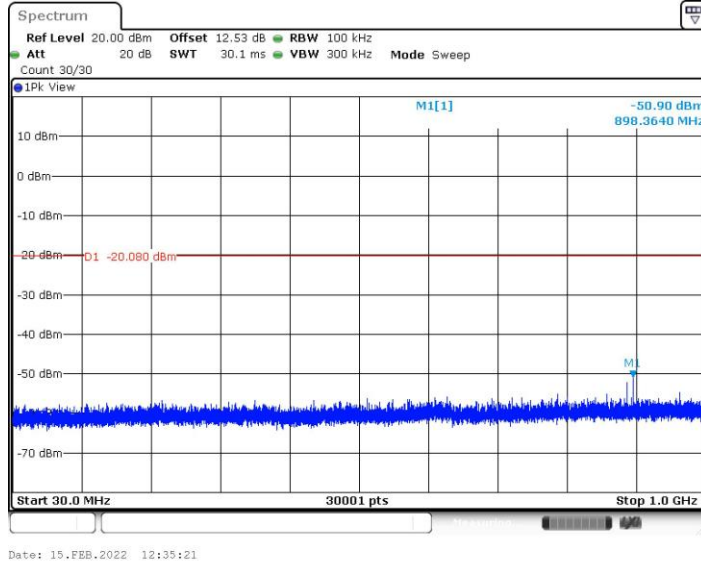
11N20SISO\_Ant1\_2467\_1000~26500



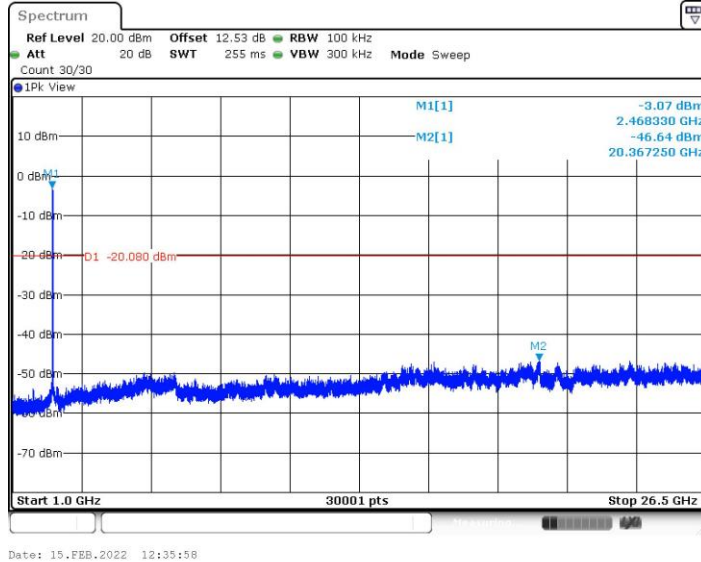
Date: 15.FEB.2022 11:44:45



11N20SISO\_Ant2\_2467\_30~1000

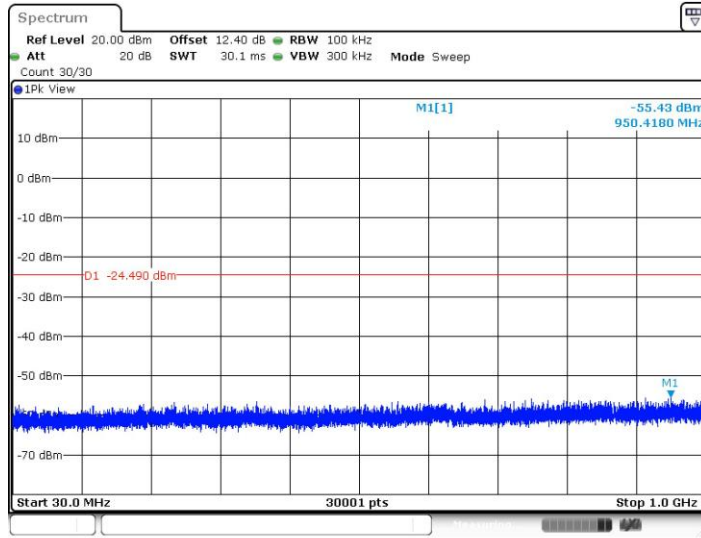


11N20SISO\_Ant2\_2467\_1000~26500



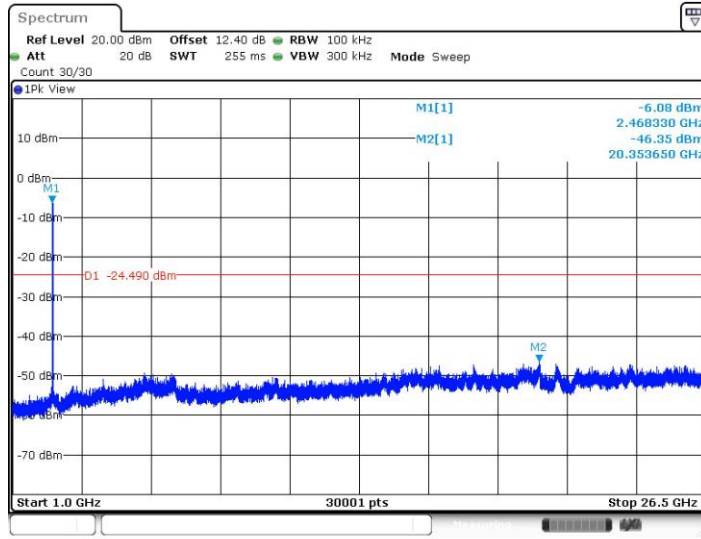


11N20SISO\_Ant1\_2472\_30~1000



Date: 15.FEB.2022 11:46:26

11N20SISO\_Ant1\_2472\_1000~26500

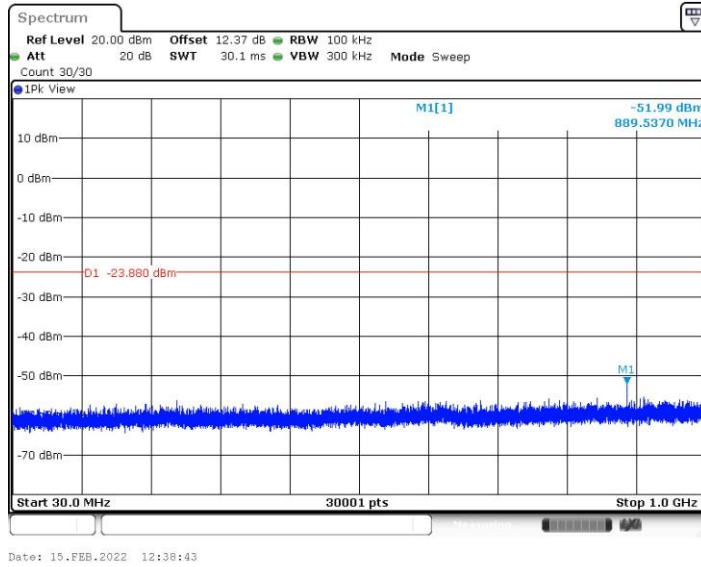


Date: 15.FEB.2022 11:47:03

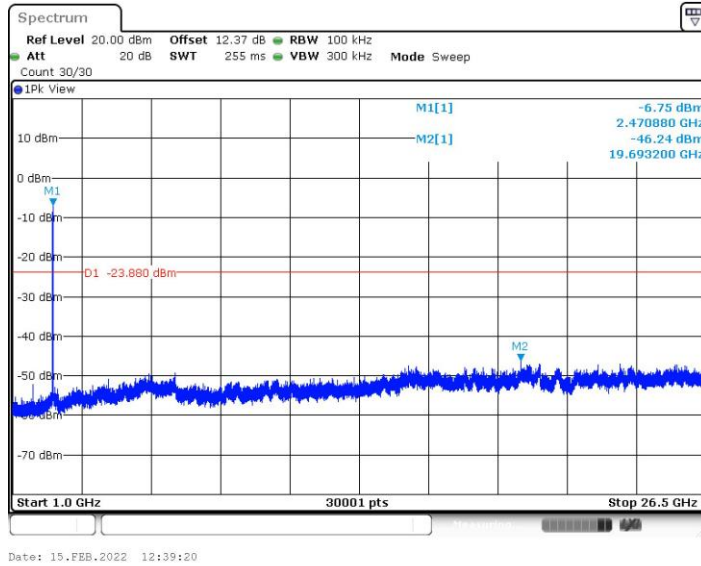




11N20SISO\_Ant2\_2472\_30~1000



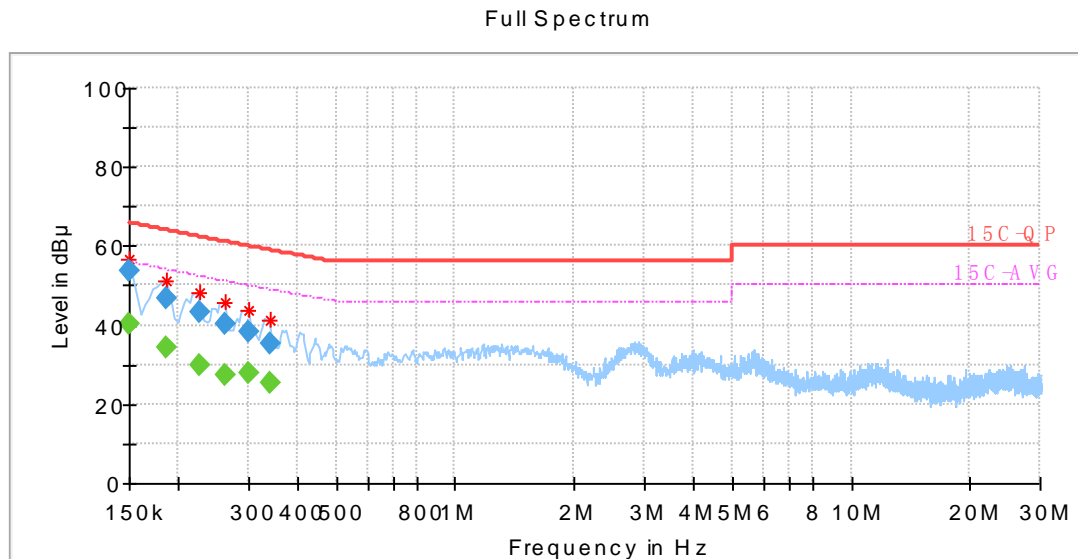
11N20SISO\_Ant2\_2472\_1000~26500





## 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.		



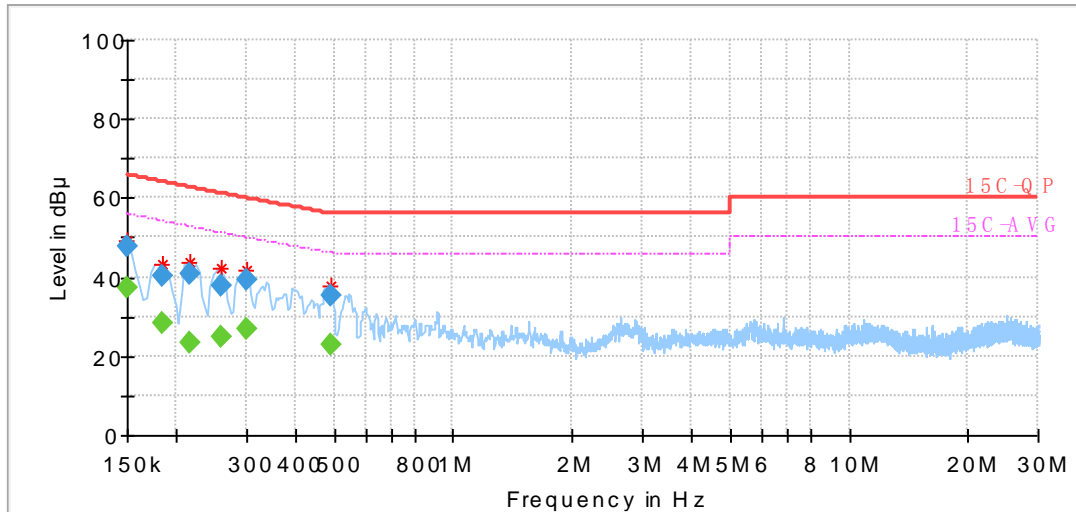
### Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	40.40	56.00	15.60	L1	OFF	20.1
0.150000	53.71	---	66.00	12.29	L1	OFF	20.1
0.187312	---	34.20	54.00	19.80	L1	OFF	20.0
0.187312	46.73	---	64.03	17.30	L1	OFF	20.0
0.225394	---	29.91	52.40	22.49	L1	OFF	19.9
0.225394	43.08	---	62.43	19.35	L1	OFF	19.9
0.262706	---	27.60	51.10	23.51	L1	OFF	19.9
0.262706	40.05	---	61.14	21.09	L1	OFF	19.9
0.300788	---	28.06	49.98	21.92	L1	OFF	19.9
0.300788	38.35	---	60.02	21.67	L1	OFF	19.9
0.338812	---	25.18	49.02	23.84	L1	OFF	19.9
0.338812	35.18	---	59.05	23.87	L1	OFF	19.9



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.		

Full Spectrum



Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.41	56.00	18.59	N	OFF	20.2
0.150000	48.01	---	66.00	17.99	N	OFF	20.2
0.184350	---	28.39	54.15	25.75	N	OFF	20.2
0.184350	40.11	---	64.17	24.06	N	OFF	20.2
0.215681	---	23.59	52.77	29.19	N	OFF	20.2
0.215681	40.75	---	62.81	22.06	N	OFF	20.2
0.258975	---	24.70	51.22	26.52	N	OFF	20.1
0.258975	37.76	---	61.26	23.50	N	OFF	20.1
0.301500	---	26.78	49.96	23.18	N	OFF	20.0
0.301500	39.52	---	60.00	20.48	N	OFF	20.0
0.489544	---	23.05	46.16	23.10	N	OFF	19.9
0.489544	35.22	---	56.16	20.94	N	OFF	19.9



## Appendix C. Radiated Spurious Emission

Test Engineer :	Henry Li	Temperature :	22~23°C
		Relative Humidity :	41~42%

### 2.4GHz 2400~2483.5MHz

#### WIFI 802.11b(ANT 1) (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b CH 01 2412MHz		2388.39	54.99	-19.01	74	49.77	30.94	7.16	32.88	100	315	P	H
		2386.96	43.57	-10.43	54	38.35	30.94	7.16	32.88	100	315	A	H
	*	2412	102.93	-	-	97.59	31	7.18	32.84	100	315	P	H
	*	2410	99.74	-	-	94.4	31	7.18	32.84	100	315	A	H
		2378.77	56	-18	74	50.87	30.88	7.13	32.88	273	281	P	V
		2387.22	44.24	-9.76	54	39.02	30.94	7.16	32.88	273	281	A	V
	*	2412	106.88	-	-	101.54	31	7.18	32.84	273	281	P	V
	*	2410	103.61	-	-	98.27	31	7.18	32.84	273	281	A	V
802.11b CH 06 2437MHz		2366.94	54.39	-19.61	74	49.29	30.88	7.1	32.88	239	288	P	H
		2389.82	43.25	-10.75	54	37.99	30.94	7.16	32.84	239	288	A	H
	*	2436	103.26	-	-	97.76	31.07	7.2	32.77	239	288	P	H
	*	2436	100.12	-	-	94.62	31.07	7.2	32.77	239	288	A	H
		2494.54	54.55	-19.45	74	48.65	31.17	7.3	32.57	239	288	P	H
		2490.76	43.47	-10.53	54	37.64	31.17	7.3	32.64	239	288	A	H
		2355.89	54.99	-19.01	74	49.98	30.83	7.1	32.92	278	272	P	V
		2388.91	43.29	-10.71	54	38.07	30.94	7.16	32.88	278	272	A	V
	*	2436	101.3	-	-	95.8	31.07	7.2	32.77	278	272	P	V
	*	2436	98.05	-	-	92.55	31.07	7.2	32.77	278	272	A	V
		2486.68	54.6	-19.4	74	48.8	31.17	7.27	32.64	278	272	P	V
		2488.3	43.69	-10.31	54	37.86	31.17	7.3	32.64	278	272	A	V



WiFi Ant. 1	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 )
802.11b CH 11 2462MHz	*	2462	105.5	-	-	99.86	31.1	7.25	32.71	147	305	P	H
	*	2462	102.35	-	-	96.71	31.1	7.25	32.71	147	305	A	H
		2488.18	55.71	-18.29	74	49.88	31.17	7.3	32.64	147	305	P	H
		2488.84	44.31	-9.69	54	38.48	31.17	7.3	32.64	147	305	A	H
	*	2462	104.42	-	-	98.78	31.1	7.25	32.71	268	287	P	V
	*	2460	101.26	-	-	95.62	31.1	7.25	32.71	268	287	A	V
		2489.38	54.91	-19.09	74	49.08	31.17	7.3	32.64	268	287	P	V
		2488	43.99	-10.01	54	38.16	31.17	7.3	32.64	268	287	A	V
802.11b CH 12 2467MHz	*	2466	103.28	-	-	97.64	31.1	7.25	32.71	143	301	P	H
	*	2466	100.11	-	-	94.47	31.1	7.25	32.71	143	301	A	H
		2484.34	56.66	-17.34	74	50.9	31.13	7.27	32.64	143	301	P	H
		2483.5	46.37	-7.63	54	40.61	31.13	7.27	32.64	143	301	A	H
	*	2466	101.23	-	-	95.59	31.1	7.25	32.71	103	4	P	V
	*	2466	98.08	-	-	92.44	31.1	7.25	32.71	103	4	A	V
		2484.28	55.11	-18.89	74	49.35	31.13	7.27	32.64	103	4	P	V
		2483.5	44.76	-9.24	54	39	31.13	7.27	32.64	103	4	A	V
802.11b CH 13 2472MHz	*	2472	104.28	-	-	98.52	31.13	7.27	32.64	134	233	P	H
	*	2470	101.08	-	-	95.34	31.13	7.25	32.64	134	233	A	H
		2484.22	58.22	-15.78	74	52.46	31.13	7.27	32.64	134	233	P	H
		2484.46	50.43	-3.57	54	44.67	31.13	7.27	32.64	134	233	A	H
	*	2472	103.42	-	-	97.66	31.13	7.27	32.64	260	249	P	V
	*	2470	100.18	-	-	94.44	31.13	7.25	32.64	260	249	A	V
		2483.86	57.85	-16.15	74	52.09	31.13	7.27	32.64	260	249	P	V
		2484.4	49.55	-4.45	54	43.79	31.13	7.27	32.64	260	249	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz  
WIFI 802.11b(ANT 1) (Harmonic @ 3m)**

WIFI Ant. 1	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 )
802.11b CH 01 2412MHz		4830	53.35	-20.65	74	68.56	34.57	10.26	60.04	268	191	P	H
		4830	50.61	-3.39	54	65.82	34.57	10.26	60.04	268	191	A	H
802.11b CH 06 2437MHz		4830	49.17	-24.83	74	64.38	34.57	10.26	60.04	100	0	P	V
		4875	53.13	-20.87	74	68.18	34.66	10.32	60.03	262	193	P	H
		4875	50.01	-3.99	54	65.06	34.66	10.32	60.03	262	193	A	H
		7305	44.13	-29.87	74	55.33	36.56	12.75	60.51	300	0	P	H
		4875	48.57	-25.43	74	63.62	34.66	10.32	60.03	100	0	P	V
802.11b CH 11 2462MHz		7305	43.84	-30.16	74	55.04	36.56	12.75	60.51	100	0	P	V
		4920	53.72	-20.28	74	70.51	34.56	10.39	61.74	275	167	P	H
		4920	50.78	-3.22	54	67.57	34.56	10.39	61.74	275	167	A	H
		7380	42.98	-31.02	74	56.33	35.9	12.81	62.06	300	0	P	H
		4920	48.3	-25.7	74	65.09	34.56	10.39	61.74	100	0	P	V
802.11b CH 12 2467MHz		7380	42.65	-31.35	74	56	35.9	12.81	62.06	100	0	P	V
		4935	53.66	-20.34	74	70.45	34.56	10.39	61.74	308	7	P	H
		4935	50.71	-3.29	54	67.5	34.56	10.39	61.74	308	7	A	H
		7395	43.4	-30.6	74	56.74	35.9	12.83	62.07	300	0	P	H
		4935	48.47	-25.53	74	65.26	34.56	10.39	61.74	100	0	P	V
802.11b CH 13 2472MHz		7395	43.37	-30.63	74	56.71	35.9	12.83	62.07	100	0	P	V
		4950	52.1	-21.9	74	68.64	34.78	10.41	61.73	267	360	P	H
		4950	49.61	-4.39	54	66.15	34.78	10.41	61.73	267	360	A	H
		7410	44.46	-29.54	74	57.1	36.58	12.85	62.07	300	0	P	H
		4950	47.11	-26.89	74	63.65	34.78	10.41	61.73	100	0	P	V
Remark		7410	43.68	-30.32	74	56.32	36.58	12.85	62.07	100	0	P	V
	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g(ANT 1) (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1, 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). Rows include data for 802.11g CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).



WiFi Ant. 1	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 )
802.11g CH 12 2467MHz	*	2464	101.42	-	-	95.78	31.1	7.25	32.71	231	238	P	H
	*	2466	93.67	-	-	88.03	31.1	7.25	32.71	231	238	A	H
		2483.5	60.83	-13.17	74	55.07	31.13	7.27	32.64	231	238	P	H
		2483.5	47.56	-6.44	54	41.8	31.13	7.27	32.64	231	238	A	H
	*	2464	102.79	-	-	97.15	31.1	7.25	32.71	234	280	P	V
	*	2466	95.07	-	-	89.43	31.1	7.25	32.71	234	280	A	V
		2483.5	62.09	-11.91	74	56.33	31.13	7.27	32.64	234	280	P	V
		2483.56	48.28	-5.72	54	42.52	31.13	7.27	32.64	234	280	A	V
802.11g CH 13 2472MHz	*	2472	96.51	-	-	90.75	31.13	7.27	32.64	100	309	P	H
	*	2470	88.59	-	-	82.85	31.13	7.25	32.64	100	309	A	H
		2484.64	57.52	-16.48	74	51.76	31.13	7.27	32.64	100	309	P	H
		2483.5	46.76	-7.24	54	41	31.13	7.27	32.64	100	309	A	H
	*	2470	99.79	-	-	94.05	31.13	7.25	32.64	282	286	P	V
	*	2470	92.36	-	-	86.62	31.13	7.25	32.64	282	286	A	V
		2486.32	60.81	-13.19	74	55.01	31.17	7.27	32.64	282	286	P	V
		2483.5	48.8	-5.2	54	43.04	31.13	7.27	32.64	282	286	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												





2.4GHz 2400~2483.5MHz
WIFI 802.11g(ANT 1) (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1, 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). Rows include channels 01, 06, 11, 12, and 13 with their respective frequency and measurement data.

Remark
1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20(ANT 1) (Band Edge @ 3m)

WIFI Ant. 1	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 )
802.11n HT20 CH 01 2412MHz		2389.3	62.41	-11.59	74	57.19	30.94	7.16	32.88	123	310	P	H
		2389.95	46.69	-7.31	54	41.43	30.94	7.16	32.84	123	310	A	H
	*	2416	101.99	-	-	96.58	31	7.18	32.77	123	310	P	H
	*	2414	94.33	-	-	88.99	31	7.18	32.84	123	310	A	H
		2389.43	65.06	-8.94	74	59.84	30.94	7.16	32.88	295	289	P	V
		2389.95	48.78	-5.22	54	43.52	30.94	7.16	32.84	295	289	A	V
	*	2412	103.88	-	-	98.54	31	7.18	32.84	295	289	P	V
	*	2414	96.12	-	-	90.78	31	7.18	32.84	295	289	A	V
802.11n HT20 CH 06 2437MHz		2360.83	55.11	-18.89	74	50.1	30.83	7.1	32.92	264	307	P	H
		2389.82	44.81	-9.19	54	39.55	30.94	7.16	32.84	264	307	A	H
	*	2434	105.2	-	-	99.7	31.07	7.2	32.77	264	307	P	H
	*	2436	97.46	-	-	91.96	31.07	7.2	32.77	264	307	A	H
		2484.04	55.41	-18.59	74	49.65	31.13	7.27	32.64	264	307	P	H
		2493.82	44.41	-9.59	54	38.51	31.17	7.3	32.57	264	307	A	H
		2379.29	54.35	-19.65	74	49.22	30.88	7.13	32.88	100	250	P	V
		2389.69	44.25	-9.75	54	39.03	30.94	7.16	32.88	100	250	A	V
	*	2436	104.01	-	-	98.51	31.07	7.2	32.77	100	250	P	V
	*	2436	96.21	-	-	90.71	31.07	7.2	32.77	100	250	A	V
	2490.7	55.01	-18.99	74	49.18	31.17	7.3	32.64	100	250	P	V	
	2490.16	44.32	-9.68	54	38.49	31.17	7.3	32.64	100	250	A	V	
802.11n HT20 CH 11 2462MHz	*	2464	104.82	-	-	99.18	31.1	7.25	32.71	167	239	P	H
	*	2464	97.1	-	-	91.46	31.1	7.25	32.71	167	239	A	H
		2483.68	65.29	-8.71	74	59.53	31.13	7.27	32.64	167	239	P	H
		2483.56	47.71	-6.29	54	41.95	31.13	7.27	32.64	167	239	A	H
	*	2460	106.45	-	-	100.81	31.1	7.25	32.71	268	281	P	V
	*	2462	98.66	-	-	93.02	31.1	7.25	32.71	268	281	A	V
		2483.5	64.76	-9.24	74	59	31.13	7.27	32.64	268	281	P	V
	2483.5	48.45	-5.55	54	42.69	31.13	7.27	32.64	268	281	A	V	



WIFI Ant. 1	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 )
802.11n HT20 CH 12 2467MHz	*	2466	99.99	-	-	94.35	31.1	7.25	32.71	100	249	P	H
	*	2466	92.23	-	-	86.59	31.1	7.25	32.71	100	249	A	H
		2485.18	59.02	-14.98	74	53.22	31.17	7.27	32.64	100	249	P	H
		2483.5	46.8	-7.2	54	41.04	31.13	7.27	32.64	100	249	A	H
	*	2466	102.87	-	-	97.23	31.1	7.25	32.71	295	278	P	V
	*	2466	95.26	-	-	89.62	31.1	7.25	32.71	295	278	A	V
		2483.62	62.54	-11.46	74	56.78	31.13	7.27	32.64	295	278	P	V
	2483.5	48.87	-5.13	54	43.11	31.13	7.27	32.64	295	278	A	V	
802.11n HT20 CH 13 2472MHz	*	2472	98.16	-	-	92.4	31.13	7.27	32.64	167	237	P	H
	*	2474	90.54	-	-	84.78	31.13	7.27	32.64	167	237	A	H
		2483.56	61.92	-12.08	74	56.16	31.13	7.27	32.64	167	237	P	H
		2483.5	50.62	-3.38	54	44.86	31.13	7.27	32.64	167	237	A	H
	*	2474	98.23	-	-	92.47	31.13	7.27	32.64	299	286	P	V
	*	2474	90.6	-	-	84.84	31.13	7.27	32.64	299	286	A	V
		2483.56	61.82	-12.18	74	56.06	31.13	7.27	32.64	299	286	P	V
	2483.5	50.78	-3.22	54	45.02	31.13	7.27	32.64	299	286	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20(ANT 1) (Harmonic @ 3m)

WIFI Ant. 1	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 )
802.11n HT20 CH 01 2412MHz		4830	43.12	-30.88	74	60.1	34.57	10.26	61.81	300	0	P	H
		4830	42.44	-31.56	74	59.42	34.57	10.26	61.81	100	0	P	V
802.11n HT20 CH 06 2437MHz		4875	43.83	-30.17	74	60.62	34.66	10.32	61.77	300	0	P	H
		7305	44.05	-29.95	74	56.8	36.56	12.75	62.06	300	0	P	H
		4875	43.08	-30.92	74	59.87	34.66	10.32	61.77	100	0	P	V
		7305	43.69	-30.31	74	56.44	36.56	12.75	62.06	100	0	P	V
802.11n HT20 CH 11 2462MHz		4920	44.96	-29.04	74	61.59	34.72	10.39	61.74	300	0	P	H
		7380	43.64	-30.36	74	56.31	36.58	12.81	62.06	300	0	P	H
		4920	44.1	-29.9	74	60.73	34.72	10.39	61.74	100	0	P	V
		7380	43.66	-30.34	74	56.33	36.58	12.81	62.06	100	0	P	V
802.11n HT20 CH 12 2467MHz		4935	43.71	-30.29	74	60.31	34.75	10.39	61.74	300	0	P	H
		7395	43.2	-30.8	74	55.86	36.58	12.83	62.07	300	0	P	H
		4935	42.66	-31.34	74	59.26	34.75	10.39	61.74	100	0	P	V
		7395	44.16	-29.84	74	56.82	36.58	12.83	62.07	100	0	P	V
802.11n HT20 CH 13 2472MHz		4950	42.39	-31.61	74	58.93	34.78	10.41	61.73	300	0	P	H
		7410	43.58	-30.42	74	56.22	36.58	12.85	62.07	300	0	P	H
		4950	42.12	-31.88	74	58.66	34.78	10.41	61.73	100	0	P	V
		7410	44.56	-29.44	74	57.2	36.58	12.85	62.07	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11b(ANT 2) (Band Edge @ 3m)**

WIFI Ant. 2	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 )
802.11b CH 01 2412MHz		2374.09	54.12	-19.88	74	48.99	30.88	7.13	32.88	206	43	P	H
		2387.09	42.94	-11.06	54	37.72	30.94	7.16	32.88	206	43	A	H
	*	2412	101.3	-	-	95.96	31	7.18	32.84	206	43	P	H
	*	2410	98.12	-	-	92.78	31	7.18	32.84	206	43	A	H
		2365.77	54.28	-19.72	74	49.23	30.83	7.1	32.88	335	130	P	V
		2386.96	43.39	-10.61	54	38.17	30.94	7.16	32.88	335	130	A	V
	*	2412	104.59	-	-	99.25	31	7.18	32.84	335	130	P	V
	*	2414	101.59	-	-	96.25	31	7.18	32.84	335	130	A	V
802.11b CH 06 2437MHz		2386.05	53.84	-20.16	74	48.62	30.94	7.16	32.88	102	123	P	H
		2389.3	42.82	-11.18	54	37.6	30.94	7.16	32.88	102	123	A	H
	*	2436	105.16	-	-	99.66	31.07	7.2	32.77	102	123	P	H
	*	2438	102.06	-	-	96.53	31.07	7.23	32.77	102	123	A	H
		2495.74	54.46	-19.54	74	48.56	31.17	7.3	32.57	102	123	P	H
		2483.5	43.6	-10.4	54	37.84	31.13	7.27	32.64	102	123	A	H
		2382.41	54.5	-19.5	74	49.37	30.88	7.13	32.88	384	45	P	V
		2387.87	42.74	-11.26	54	37.52	30.94	7.16	32.88	384	45	A	V
	*	2438	104.95	-	-	99.42	31.07	7.23	32.77	384	45	P	V
	*	2438	101.91	-	-	96.38	31.07	7.23	32.77	384	45	A	V
		2497.42	54.5	-19.5	74	48.6	31.17	7.3	32.57	384	45	P	V
		2491.6	43.38	-10.62	54	37.55	31.17	7.3	32.64	384	45	A	V
802.11b CH 11 2462MHz	*	2462	105.24	-	-	99.6	31.1	7.25	32.71	100	127	P	H
	*	2464	102.24	-	-	96.6	31.1	7.25	32.71	100	127	A	H
		2494.72	55.09	-18.91	74	49.19	31.17	7.3	32.57	100	127	P	H
		2487.4	43.86	-10.14	54	38.06	31.17	7.27	32.64	100	127	A	H
	*	2462	103.8	-	-	98.16	31.1	7.25	32.71	379	32	P	V
	*	2462	100.66	-	-	95.02	31.1	7.25	32.71	379	32	A	V
		2490.58	54.79	-19.21	74	48.96	31.17	7.3	32.64	379	32	P	V
		2483.5	43.64	-10.36	54	37.88	31.13	7.27	32.64	379	32	A	V



WIFI Ant. 2	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 )
802.11b CH 12 2467MHz	*	2466	105.82	-	-	100.18	31.1	7.25	32.71	158	125	P	H
	*	2466	102.64	-	-	97	31.1	7.25	32.71	158	125	A	H
		2483.5	56.97	-17.03	74	51.21	31.13	7.27	32.64	158	125	P	H
		2483.8	46.61	-7.39	54	40.85	31.13	7.27	32.64	158	125	A	H
	*	2466	104.14	-	-	98.5	31.1	7.25	32.71	378	35	P	V
	*	2466	101	-	-	95.36	31.1	7.25	32.71	378	35	A	V
		2484.04	55.43	-18.57	74	49.67	31.13	7.27	32.64	378	35	P	V
		2483.68	46.19	-7.81	54	40.43	31.13	7.27	32.64	378	35	A	V
802.11b CH 13 2472MHz	*	2472	105.27	-	-	99.51	31.13	7.27	32.64	126	126	P	H
	*	2474	102.1	-	-	96.34	31.13	7.27	32.64	126	126	A	H
		2484.46	58.58	-15.42	74	52.82	31.13	7.27	32.64	126	126	P	H
		2484.58	50.89	-3.11	54	45.13	31.13	7.27	32.64	126	126	A	H
	*	2472	104.57	-	-	98.81	31.13	7.27	32.64	373	49	P	V
	*	2470	101.36	-	-	95.62	31.13	7.25	32.64	373	49	A	V
		2484.34	56.72	-17.28	74	50.96	31.13	7.27	32.64	373	49	P	V
		2484.58	49.26	-4.74	54	43.5	31.13	7.27	32.64	373	49	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11b(ANT 2) (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 2, 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). Rows include data for channels 01, 06, 11, 12, and 13 across various frequencies.



2.4GHz 2400~2483.5MHz
WIFI 802.11g(ANT 2) (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 2, 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). Rows include data for 802.11g CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).





WIFI Ant. 2	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 )
802.11g CH 12 2467MHz	*	2466	103.73	-	-	98.09	31.1	7.25	32.71	106	124	P	H
	*	2466	96.11	-	-	90.47	31.1	7.25	32.71	106	124	A	H
		2483.5	60.39	-13.61	74	54.63	31.13	7.27	32.64	106	124	P	H
		2483.5	47.08	-6.92	54	41.32	31.13	7.27	32.64	106	124	A	H
	*	2466	101	-	-	95.36	31.1	7.25	32.71	371	57	P	V
	*	2466	93.27	-	-	87.63	31.1	7.25	32.71	371	57	A	V
		2483.98	58.34	-15.66	74	52.58	31.13	7.27	32.64	371	57	P	V
		2483.56	45.78	-8.22	54	40.02	31.13	7.27	32.64	371	57	A	V
802.11g CH 13 2472MHz	*	2472	101.6	-	-	95.84	31.13	7.27	32.64	106	123	P	H
	*	2470	93.92	-	-	88.18	31.13	7.25	32.64	106	123	A	H
		2485.06	63.01	-10.99	74	57.25	31.13	7.27	32.64	106	123	P	H
		2483.74	49.8	-4.2	54	44.04	31.13	7.27	32.64	106	123	A	H
	*	2470	99.26	-	-	93.52	31.13	7.25	32.64	373	38	P	V
	*	2472	91.45	-	-	85.69	31.13	7.27	32.64	373	38	A	V
		2484.28	62.93	-11.07	74	57.17	31.13	7.27	32.64	373	38	P	V
		2483.5	48.33	-5.67	54	42.57	31.13	7.27	32.64	373	38	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz  
WIFI 802.11g(ANT 2) (Harmonic @ 3m)**

WIFI Ant. 2	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 )
802.11g CH 01 2412MHz		4830	46.44	-27.56	74	63.42	34.57	10.26	61.81	300	0	P	H
		4830	42.37	-31.63	74	59.35	34.57	10.26	61.81	100	0	P	V
802.11g CH 06 2437MHz		4875	44.25	-29.75	74	61.04	34.66	10.32	61.77	300	0	P	H
		7305	44.73	-29.27	74	57.48	36.56	12.75	62.06	300	0	P	H
		4875	42.98	-31.02	74	59.77	34.66	10.32	61.77	100	0	P	V
		7305	44.08	-29.92	74	56.83	36.56	12.75	62.06	100	0	P	V
802.11g CH 11 2462MHz		4920	44.13	-29.87	74	60.76	34.72	10.39	61.74	300	0	P	H
		7380	44.08	-29.92	74	56.75	36.58	12.81	62.06	300	0	P	H
		4920	42.19	-31.81	74	58.82	34.72	10.39	61.74	100	0	P	V
		7380	44.16	-29.84	74	56.83	36.58	12.81	62.06	100	0	P	V
802.11g CH 12 2467MHz		4935	42.69	-31.31	74	59.29	34.75	10.39	61.74	300	0	P	H
		7395	44.07	-29.93	74	56.73	36.58	12.83	62.07	300	0	P	H
		4935	41.93	-32.07	74	58.53	34.75	10.39	61.74	100	0	P	V
		7395	43.82	-30.18	74	56.48	36.58	12.83	62.07	100	0	P	V
802.11g CH 13 2472MHz		4950	42.7	-31.3	74	59.24	34.78	10.41	61.73	300	0	P	H
		7410	44.63	-29.37	74	57.27	36.58	12.85	62.07	300	0	P	H
		4950	41.88	-32.12	74	58.42	34.78	10.41	61.73	100	0	P	V
		7410	44.15	-29.85	74	56.79	36.58	12.85	62.07	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20(ANT 2) (Band Edge @ 3m)

WIFI Ant. 2	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 )
802.11n HT20 CH 01 2412MHz		2388.91	60.49	-13.51	74	55.27	30.94	7.16	32.88	212	125	P	H
		2389.95	46.73	-7.27	54	41.47	30.94	7.16	32.84	212	125	A	H
	*	2410	104.88	-	-	99.54	31	7.18	32.84	212	125	P	H
	*	2414	97.16	-	-	91.82	31	7.18	32.84	212	125	A	H
		2387.87	60.1	-13.9	74	54.88	30.94	7.16	32.88	393	38	P	V
		2389.82	46.91	-7.09	54	41.65	30.94	7.16	32.84	393	38	A	V
	*	2414	103.68	-	-	98.34	31	7.18	32.84	393	38	P	V
	*	2414	96.06	-	-	90.72	31	7.18	32.84	393	38	A	V
802.11n HT20 CH 06 2437MHz		2339.51	54.09	-19.91	74	49.17	30.77	7.07	32.92	101	117	P	H
		2388.26	43.77	-10.23	54	38.55	30.94	7.16	32.88	101	117	A	H
	*	2436	104.99	-	-	99.49	31.07	7.2	32.77	101	117	P	H
	*	2436	97.36	-	-	91.86	31.07	7.2	32.77	101	117	A	H
		2485.72	55.1	-18.9	74	49.3	31.17	7.27	32.64	101	117	P	H
		2484.04	44.62	-9.38	54	38.86	31.13	7.27	32.64	101	117	A	H
		2355.76	54.16	-19.84	74	49.15	30.83	7.1	32.92	384	40	P	V
		2387.61	43.52	-10.48	54	38.3	30.94	7.16	32.88	384	40	A	V
	*	2438	104.31	-	-	98.78	31.07	7.23	32.77	384	40	P	V
	*	2436	96.7	-	-	91.2	31.07	7.2	32.77	384	40	A	V
	2487.52	54.83	-19.17	74	49	31.17	7.3	32.64	384	40	P	V	
	2485.12	44.21	-9.79	54	38.41	31.17	7.27	32.64	384	40	A	V	
802.11n HT20 CH 11 2462MHz	*	2464	106.32	-	-	100.68	31.1	7.25	32.71	107	124	P	H
	*	2464	98.59	-	-	92.95	31.1	7.25	32.71	107	124	A	H
		2483.68	64.61	-9.39	74	58.85	31.13	7.27	32.64	107	124	P	H
		2483.5	48.43	-5.57	54	42.67	31.13	7.27	32.64	107	124	A	H
	*	2462	103.54	-	-	97.9	31.1	7.25	32.71	371	54	P	V
	*	2460	95.93	-	-	90.29	31.1	7.25	32.71	371	54	A	V
		2484.76	61.21	-12.79	74	55.45	31.13	7.27	32.64	371	54	P	V
	2483.5	46.6	-7.4	54	40.84	31.13	7.27	32.64	371	54	A	V	



WIFI Ant. 2	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)
802.11n HT20 CH 12 2467MHz	*	2466	104.39	-	-	98.75	31.1	7.25	32.71	105	123	P	H
	*	2466	96.81	-	-	91.17	31.1	7.25	32.71	105	123	A	H
		2483.74	66.4	-7.6	74	60.64	31.13	7.27	32.64	105	123	P	H
		2483.5	49.91	-4.09	54	44.15	31.13	7.27	32.64	105	123	A	H
	*	2466	101.68	-	-	96.04	31.1	7.25	32.71	370	55	P	V
	*	2466	94	-	-	88.36	31.1	7.25	32.71	370	55	A	V
		2483.8	64.03	-9.97	74	58.27	31.13	7.27	32.64	370	55	P	V
	2483.5	47.67	-6.33	54	41.91	31.13	7.27	32.64	370	55	A	V	
802.11n HT20 CH 13 2472MHz	*	2470	99.87	-	-	94.13	31.13	7.25	32.64	107	121	P	H
	*	2470	92.24	-	-	86.5	31.13	7.25	32.64	107	121	A	H
		2483.5	61.29	-12.71	74	55.53	31.13	7.27	32.64	107	121	P	H
		2483.5	50.61	-3.39	54	44.85	31.13	7.27	32.64	107	121	A	H
	*	2472	96.98	-	-	91.22	31.13	7.27	32.64	372	40	P	V
	*	2470	89.3	-	-	83.56	31.13	7.25	32.64	372	40	A	V
		2483.62	61.03	-12.97	74	55.27	31.13	7.27	32.64	372	40	P	V
	2483.5	48.96	-5.04	54	43.2	31.13	7.27	32.64	372	40	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20(ANT 2) (Harmonic @ 3m)

WIFI Ant. 2	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 )
802.11n HT20		4830	44.94	-29.06	74	61.92	34.57	10.26	61.81	300	0	P	H
CH 01 2412MHz		4830	42.11	-31.89	74	59.09	34.57	10.26	61.81	100	0	P	V
802.11n HT20		4875	45.69	-28.31	74	62.48	34.66	10.32	61.77	300	0	P	H
CH 06 2437MHz		7305	45.29	-28.71	74	58.04	36.56	12.75	62.06	300	0	P	H
		4875	43.26	-30.74	74	60.05	34.66	10.32	61.77	100	0	P	V
802.11n HT20		7305	44.86	-29.14	74	57.61	36.56	12.75	62.06	100	0	P	V
	2462MHz	4920	43.42	-30.58	74	60.05	34.72	10.39	61.74	300	0	P	H
CH 11 2462MHz		7380	44.06	-29.94	74	56.73	36.58	12.81	62.06	300	0	P	H
		4920	42.33	-31.67	74	58.96	34.72	10.39	61.74	100	0	P	V
802.11n HT20		7380	43.86	-30.14	74	56.53	36.58	12.81	62.06	100	0	P	V
	CH 12 2467MHz		4932	42.5	-31.5	74	57.38	34.75	10.39	60.02	300	0	P
		7404	44.14	-29.86	74	55.24	36.58	12.85	60.53	300	0	P	H
802.11n HT20		4932	41.77	-32.23	74	56.65	34.75	10.39	60.02	300	360	P	V
	2472MHz	7404	43.14	-30.86	74	54.24	36.58	12.85	60.53	300	360	P	V
802.11n HT20		4950	41.4	-32.6	74	57.94	34.78	10.41	61.73	300	0	P	H
	CH 13 2472MHz		7410	44.33	-29.67	74	56.97	36.58	12.85	62.07	300	0	P
		4950	41.58	-32.42	74	58.12	34.78	10.41	61.73	100	0	P	V
		7410	44.24	-29.76	74	56.88	36.58	12.85	62.07	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 WIFI 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
2.4GHz 802.11b LF		30	22.8	-17.2	40	28.3	25.15	0.58	31.23	-	-	P	H
		106.63	27.43	-16.07	43.5	40.25	17.29	1.68	31.79	-	-	P	H
		192.96	34.74	-8.76	43.5	48.22	15.61	2.25	31.34	-	-	P	H
		206.54	29.97	-13.53	43.5	43.1	15.87	2.34	31.34	-	-	P	H
		334.58	28.41	-17.59	46	37.07	20.03	2.96	31.65	-	-	P	H
		556.71	26.1	-19.9	46	28.7	25.17	3.83	31.6	-	-	P	H
		40.67	29.82	-10.18	40	41.36	19.38	0.73	31.65	-	-	P	V
		56.19	29.88	-10.12	40	46.21	14.04	0.97	31.34	-	-	P	V
		94.99	33.62	-9.88	43.5	46.95	17.05	1.56	31.94	-	-	P	V
		106.63	31.99	-11.51	43.5	44.08	18.02	1.68	31.79	-	-	P	V
		151.25	27.19	-16.31	43.5	39.05	17.48	1.98	31.32	-	-	P	V
		192.96	29.1	-14.4	43.5	41.73	16.46	2.25	31.34	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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. Radiated Spurious Emission Plots

### Note symbol

-L	Low channel location
-R	High channel location





2.4GHz 2400~2483.5MHz  
 WIFI 802.11b(ANT 1) (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																																																											
ANT	802.11b CH01 2412MHz																																																																											
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