

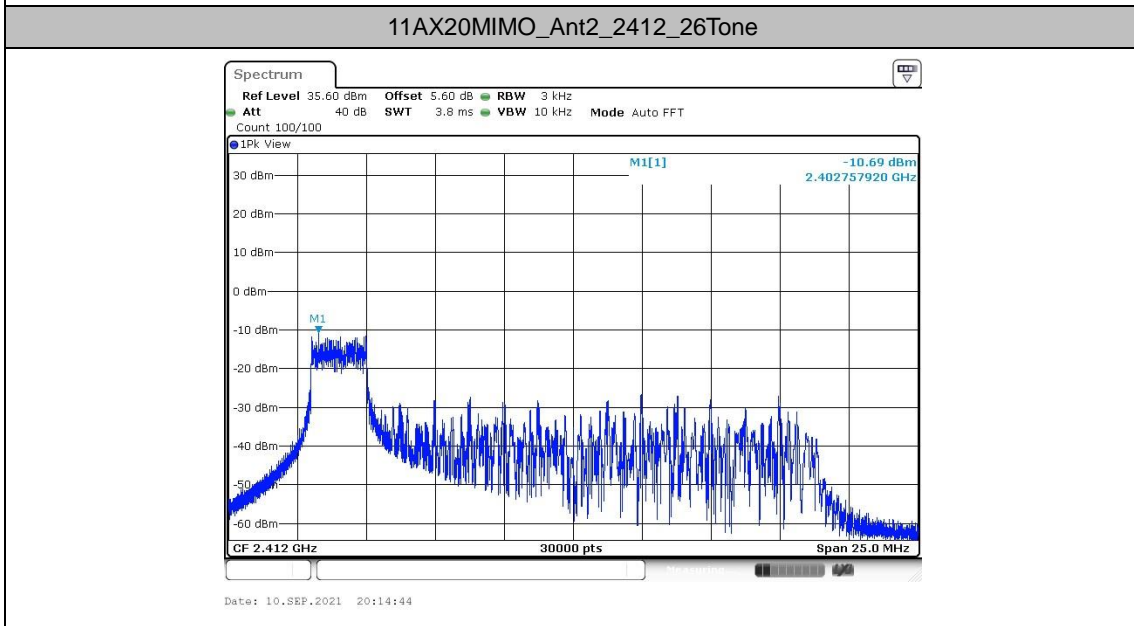
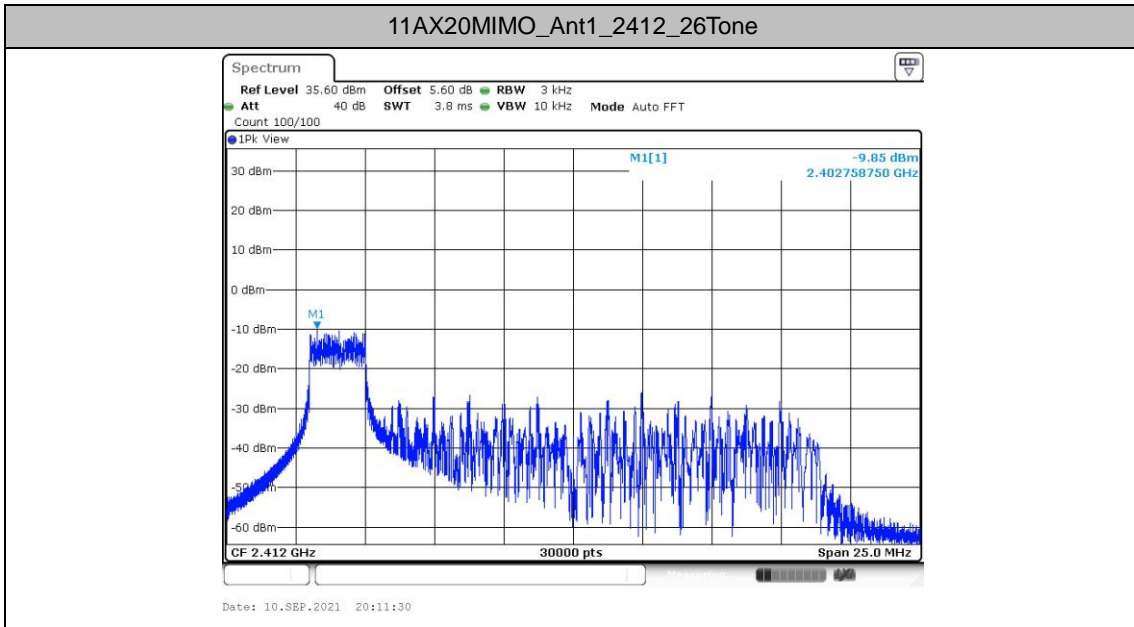


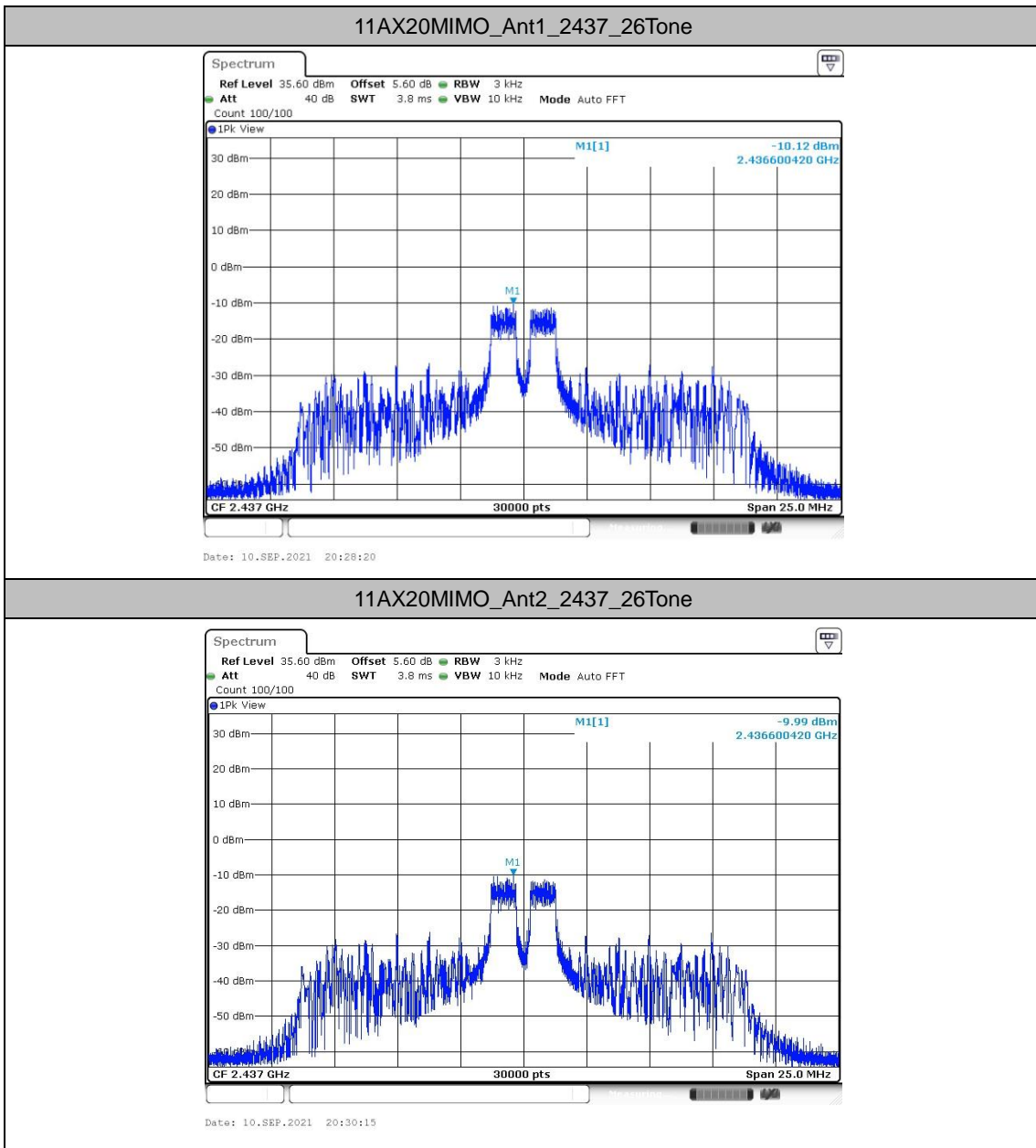
Appendix A: Maximum power spectral density

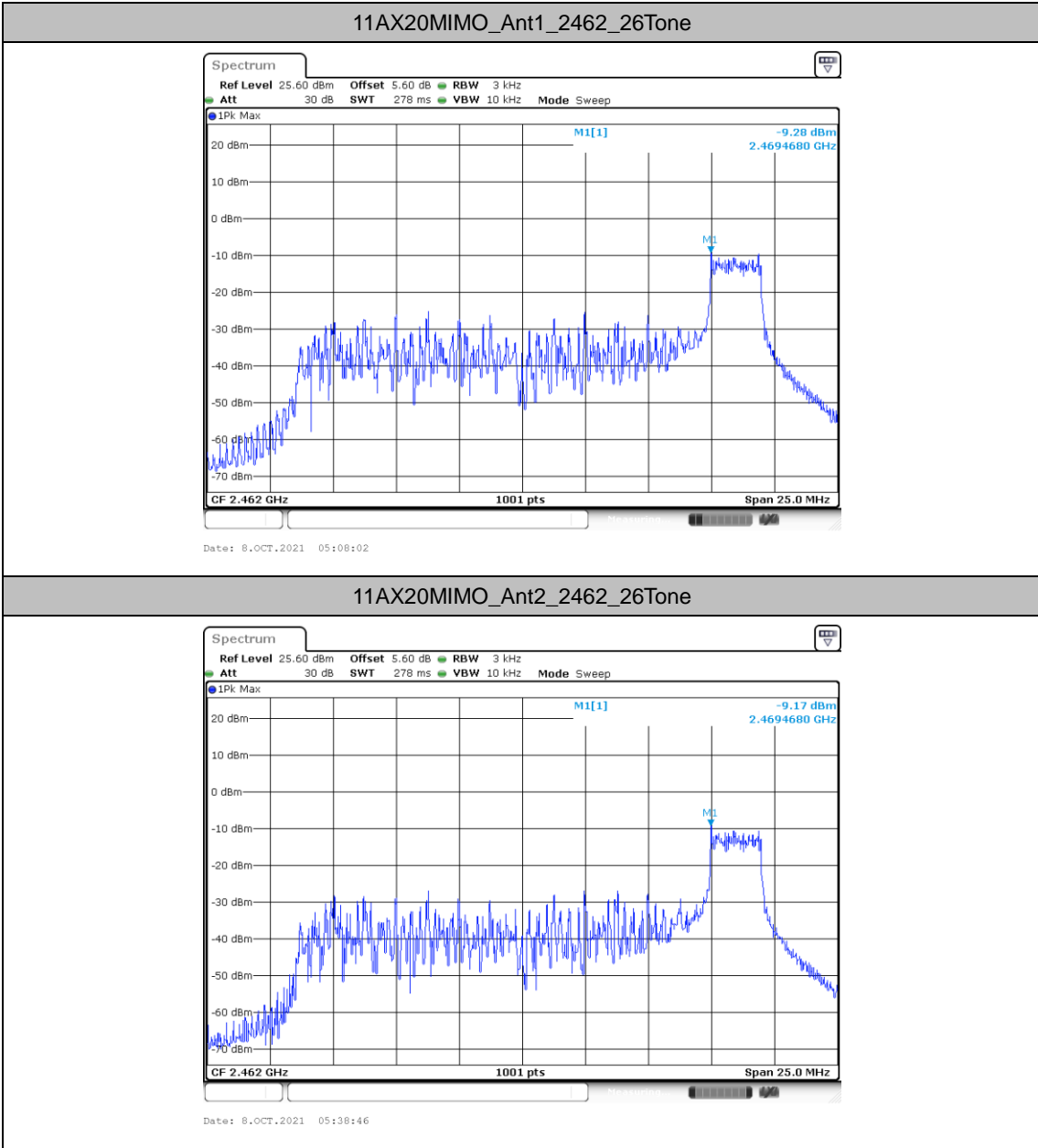
TestMode	Antenna	Frequency [MHz]	RuSize	RuIndex	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11AX20MIMO	Ant1	2412	26Tone	RU1	-9.85	≤8	PASS
	Ant2	2412	26Tone	RU1	-10.69	≤8	PASS
	total	2412	26Tone	RU1	-7.25	≤8	PASS
	Ant1	2437	26Tone	RU5	-10.12	≤8	PASS
	Ant2	2437	26Tone	RU5	-9.99	≤8	PASS
	total	2437	26Tone	RU5	-7.04	≤8	PASS
	Ant1	2462	26Tone	RU9	-9.28	≤8	PASS
	Ant2	2462	26Tone	RU9	-9.17	≤8	PASS
	total	2462	26Tone	RU9	-6.21	≤8	PASS
	Ant1	2412	52Tone	RU1	-9.96	≤8	PASS
	Ant2	2412	52Tone	RU1	-9.43	≤8	PASS
	total	2412	52Tone	RU1	-6.68	≤8	PASS
	Ant1	2437	52Tone	RU5	-9.92	≤8	PASS
	Ant2	2437	52Tone	RU5	-9.70	≤8	PASS
	total	2437	52Tone	RU1	-6.80	≤8	PASS
	Ant1	2462	52Tone	RU9	-10.12	≤8	PASS
	Ant2	2462	52Tone	RU9	-10.51	≤8	PASS
	total	2462	52Tone	RU1	-7.30	≤8	PASS
	Ant1	2412	106Tone	RU1	-10.08	≤8	PASS
	Ant2	2412	106Tone	RU1	-9.50	≤8	PASS
	total	2412	106Tone	RU1	-6.77	≤8	PASS
	Ant1	2437	106Tone	RU5	-9.32	≤8	PASS
	Ant2	2437	106Tone	RU5	-9.75	≤8	PASS
	total	2437	106Tone	RU5	-6.52	≤8	PASS
Ant1	2462	106Tone	RU9	-10.41	≤8	PASS	
Ant2	2462	106Tone	RU9	-10.53	≤8	PASS	
total	2462	106Tone	RU9	-7.46	≤8	PASS	
11AX40MIMO	Ant1	2422	242Tone	RU1	-13.8	≤8	PASS
	Ant2	2422	242Tone	RU1	-14.53	≤8	PASS
	total	2422	242Tone	RU1	-11.15	≤8	PASS
	Ant1	2437	242Tone	RU9	-13.5	≤8	PASS
	Ant2	2437	242Tone	RU9	-13.82	≤8	PASS
	total	2437	242Tone	RU9	-10.65	≤8	PASS
	Ant1	2452	242Tone	RU18	-13.86	≤8	PASS
Ant2	2452	242Tone	RU18	-13.78	≤8	PASS	

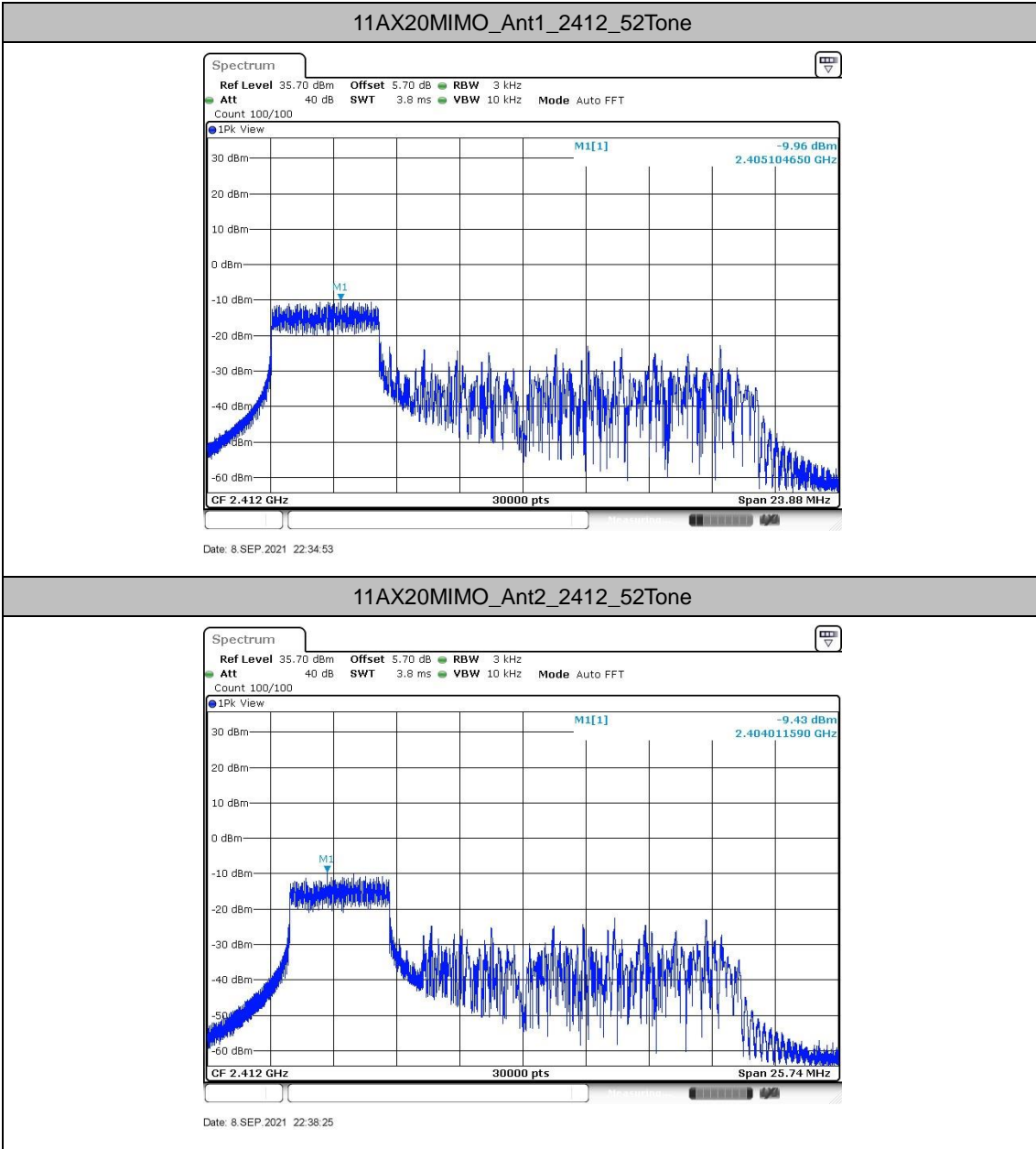


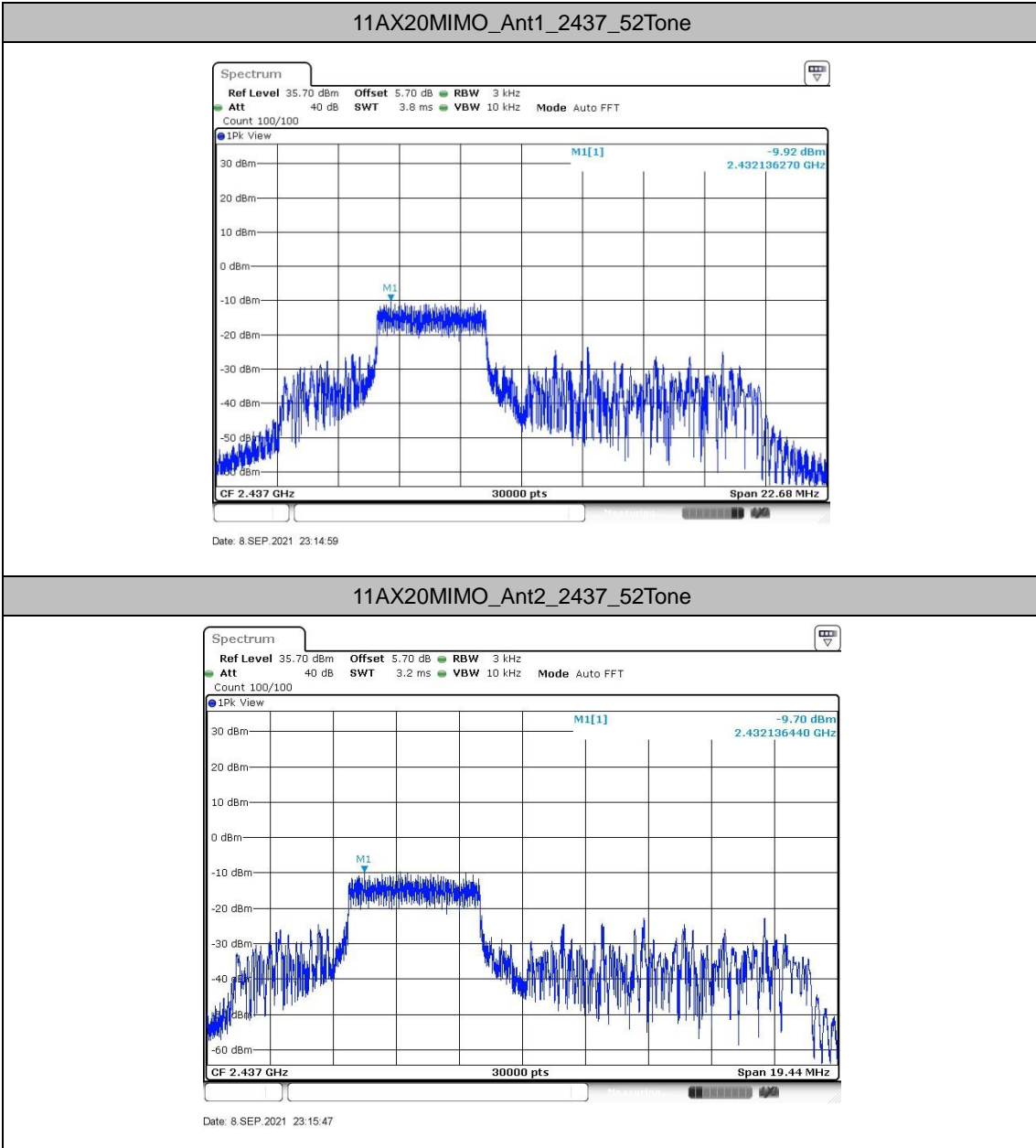
	total	2452	242Tone	RU18	-10.81	≤8	PASS
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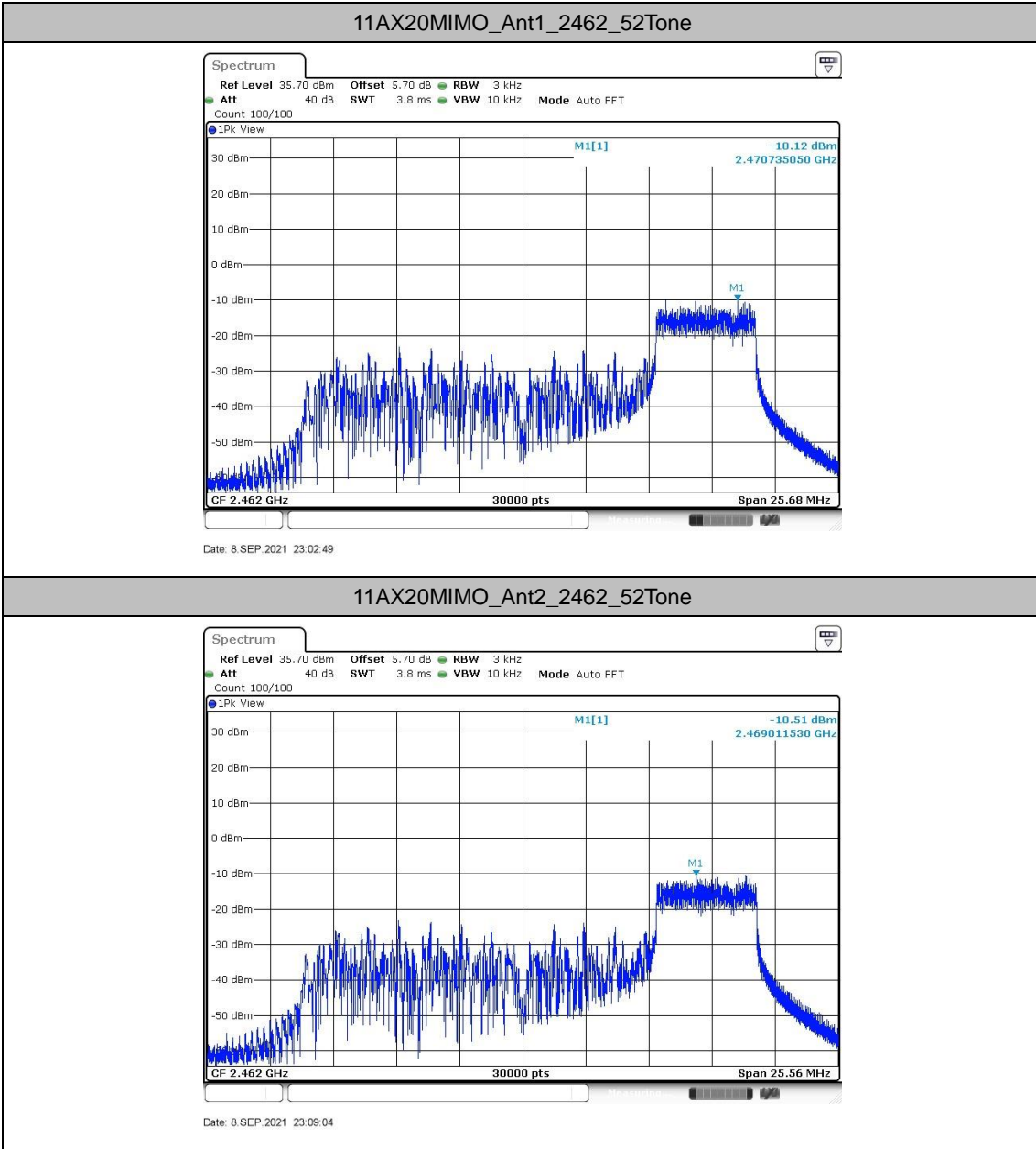


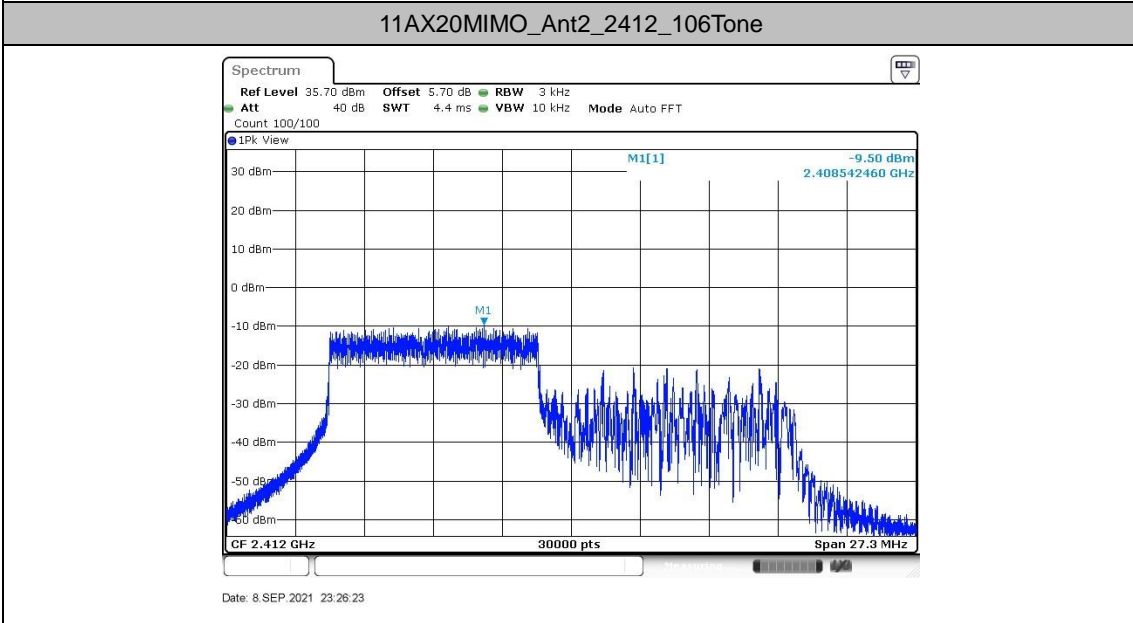
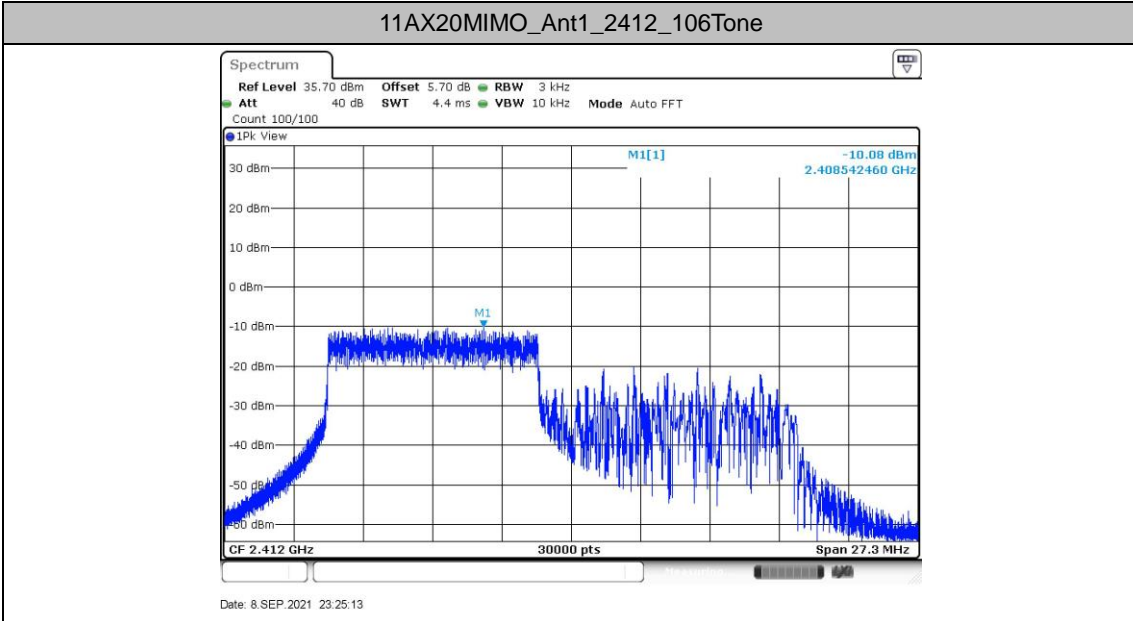


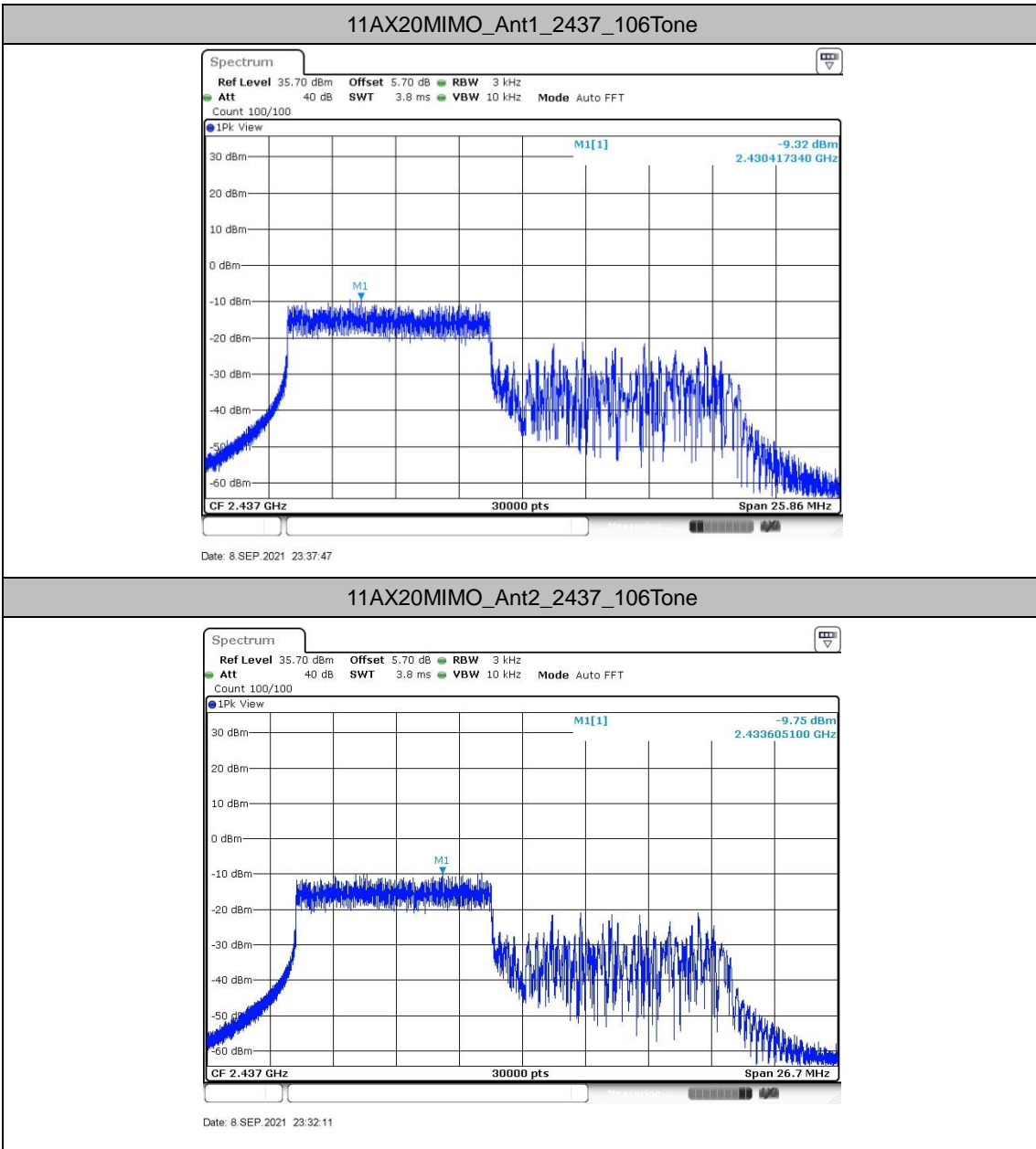


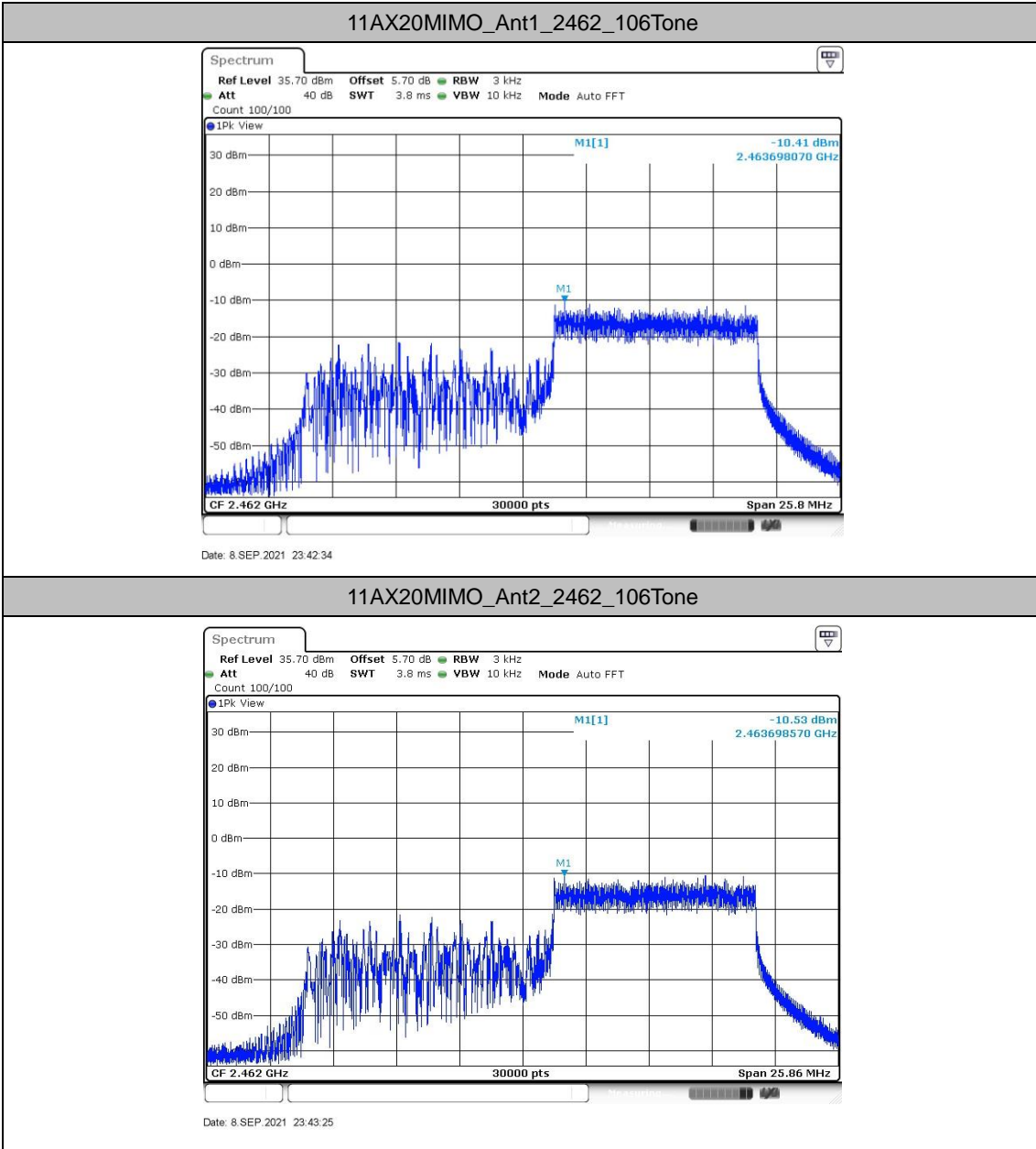


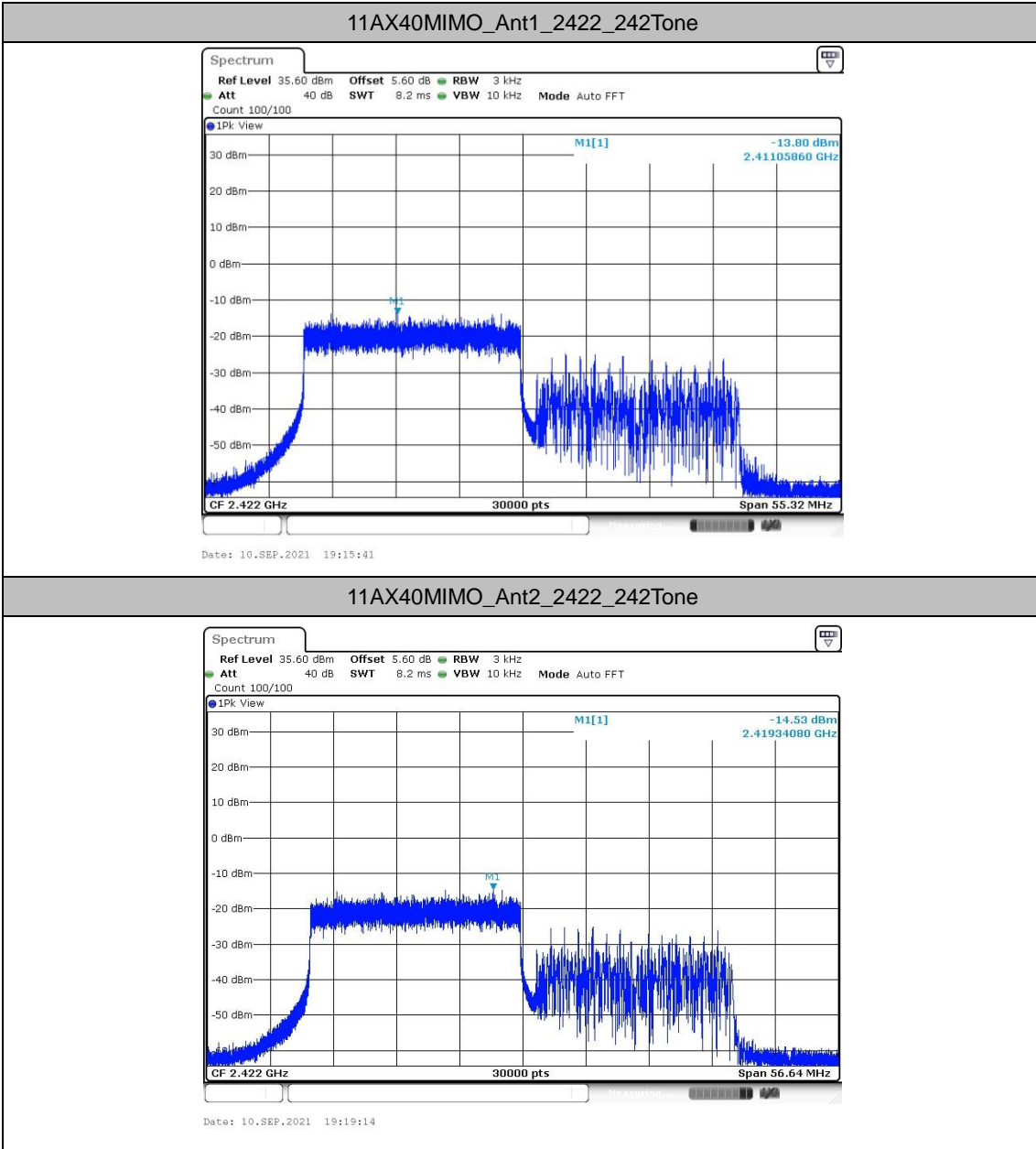


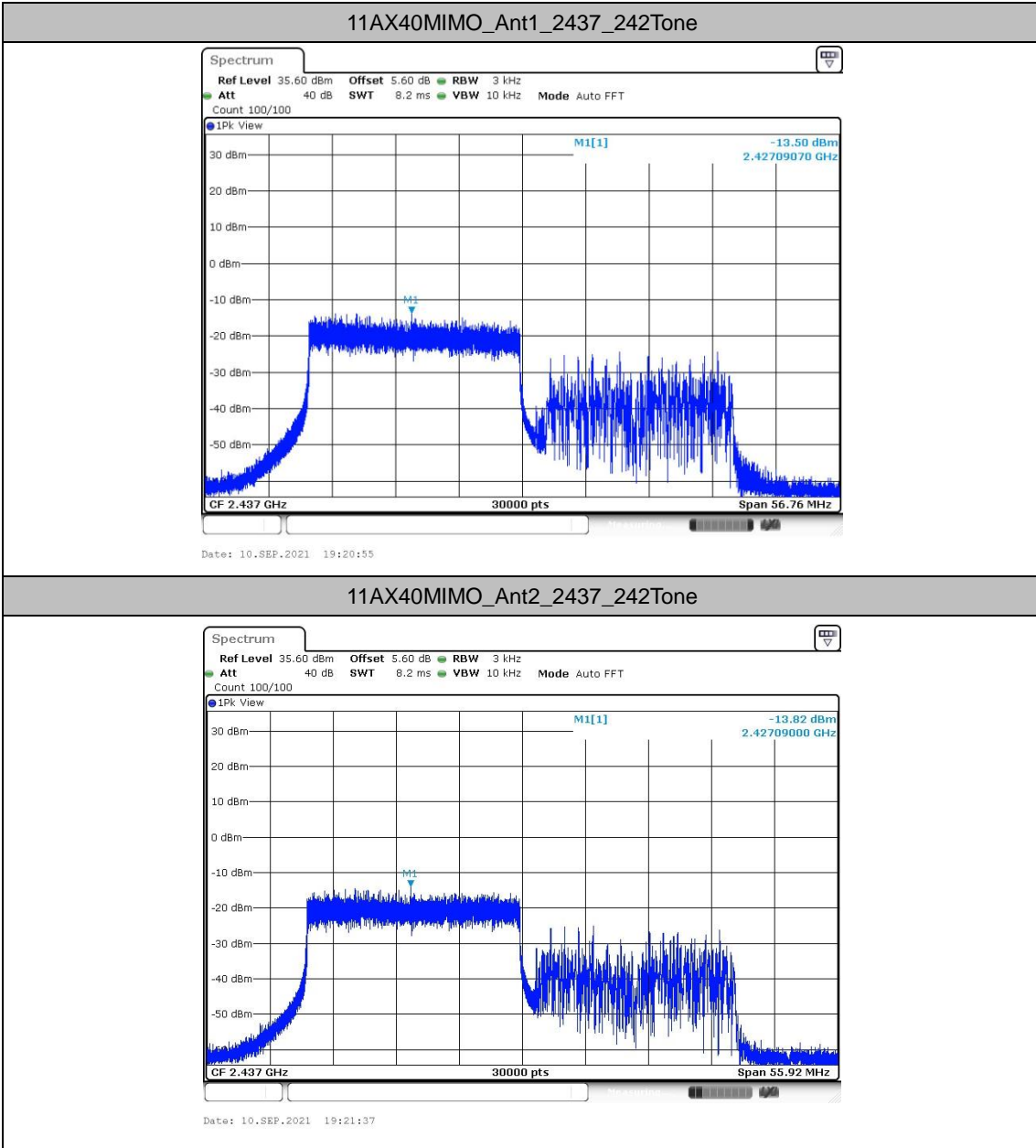


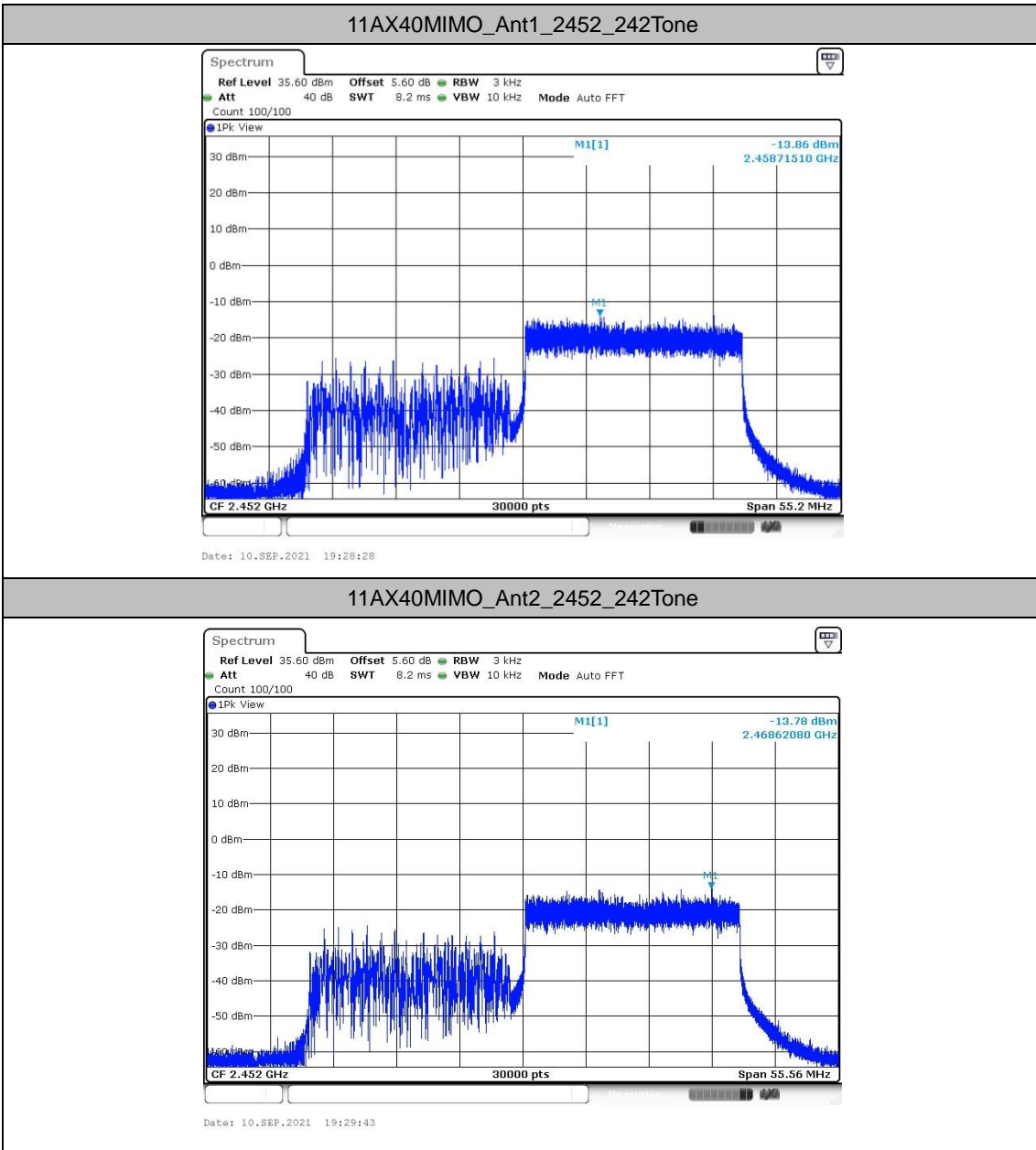












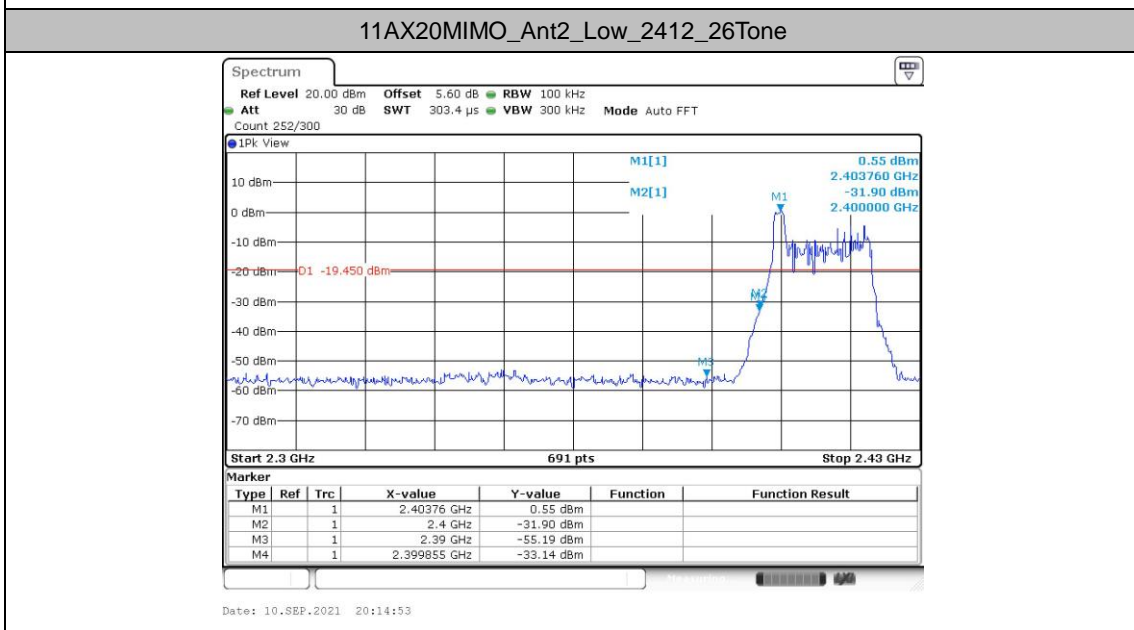
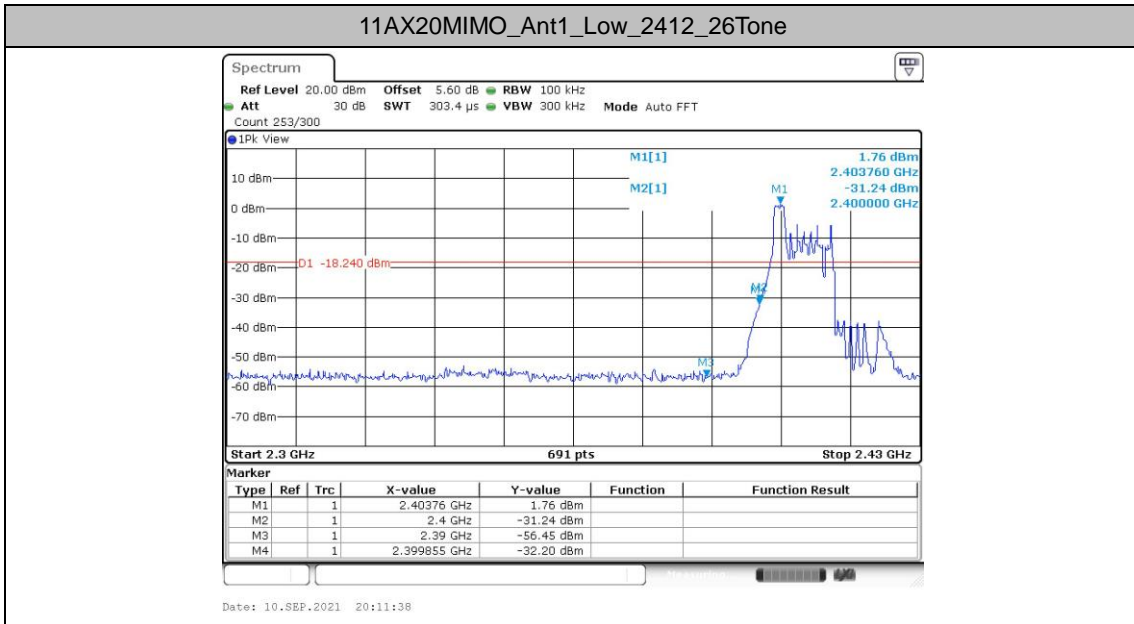


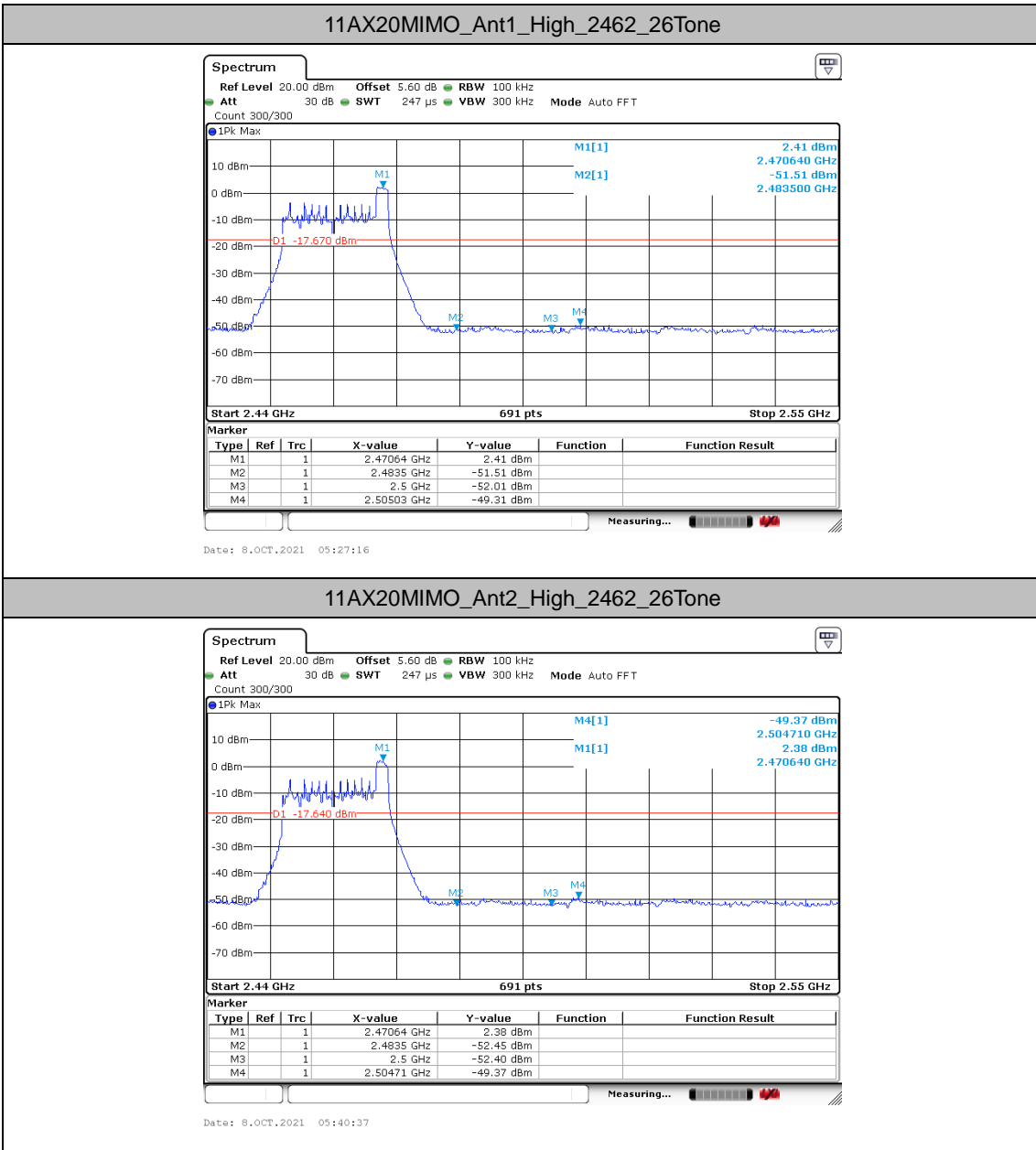
Appendix A: Band edge measurements

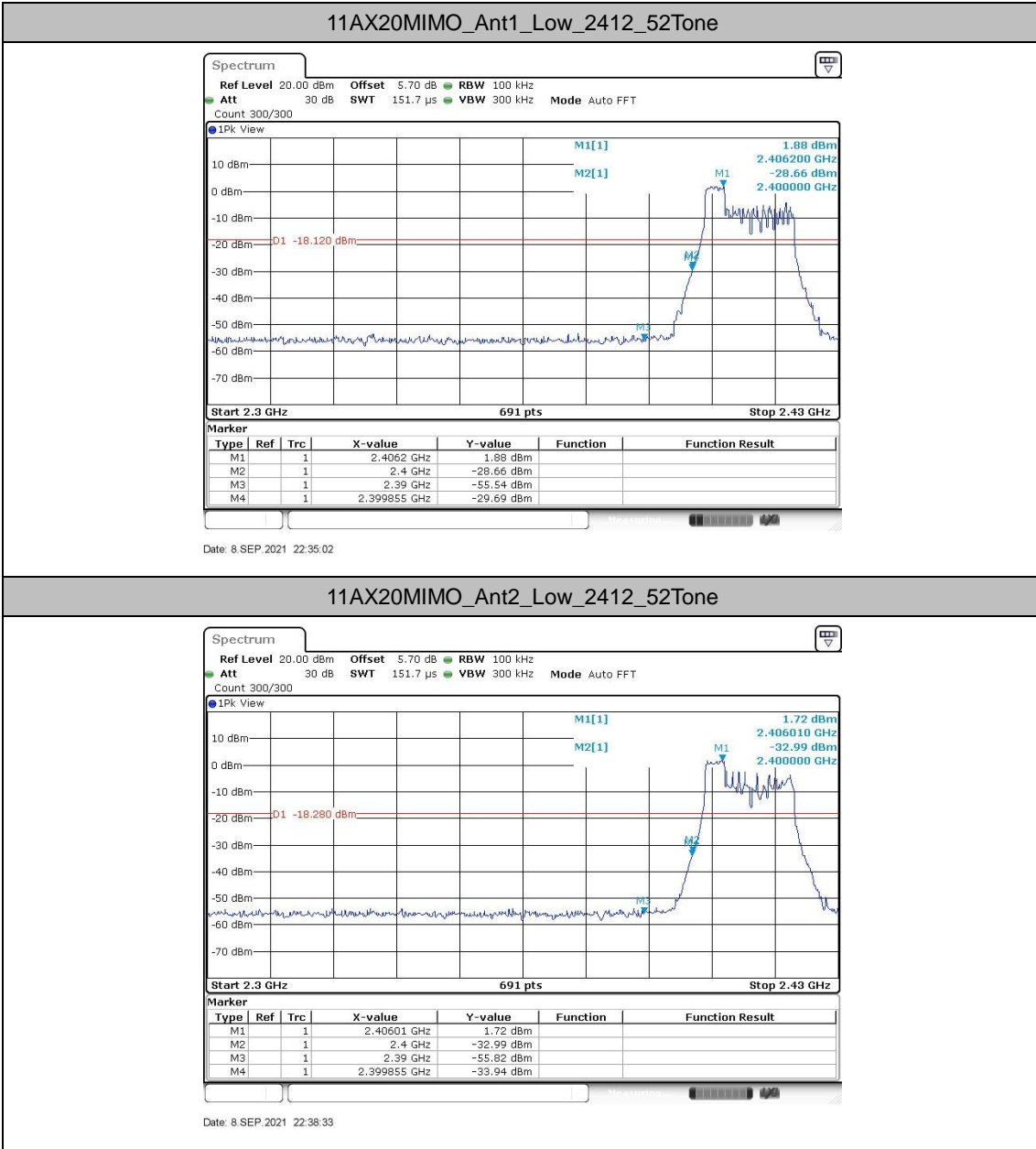
TestMode	Antenna	ChName	Frequency [MHz]	RuSize	RuIndex	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11AX20MIMO	Ant1	Low	2412	26Tone	RU1	1.76	-32.2	≤-18.24	PASS
	Ant2	Low	2412	26Tone	RU1	0.55	-33.14	≤-19.45	PASS
	Ant1	High	2462	26Tone	RU9	2.33	-49.31	≤-19	PASS
	Ant2	High	2462	26Tone	RU9	2.88	-48.22	≤-18.73	PASS
	Ant1	Low	2412	52Tone	RU1	1.88	-29.69	≤-18.12	PASS
	Ant2	Low	2412	52Tone	RU1	1.72	-33.94	≤-18.28	PASS
	Ant1	High	2462	52Tone	RU9	0.76	-52.57	≤-19.24	PASS
	Ant2	High	2462	52Tone	RU9	1.79	-52.18	≤-18.21	PASS
	Ant1	Low	2412	106Tone	RU1	2.71	-31.79	≤-17.29	PASS
	Ant2	Low	2412	106Tone	RU1	2.43	-31.34	≤-17.57	PASS
	Ant1	High	2462	106Tone	RU9	1.24	-52.33	≤-18.76	PASS
	Ant2	High	2462	106Tone	RU9	1.48	-53	≤-18.52	PASS
11AX40MIMO	Ant1	Low	2422	242Tone	RU1	-1.67	-34.57	≤-21.67	PASS
	Ant2	Low	2422	242Tone	RU1	-2.46	-36.03	≤-22.46	PASS
	Ant1	High	2452	242Tone	RU18	-2.05	-53.86	≤-22.05	PASS
	Ant2	High	2452	242Tone	RU18	-3.12	-52.96	≤-23.12	PASS

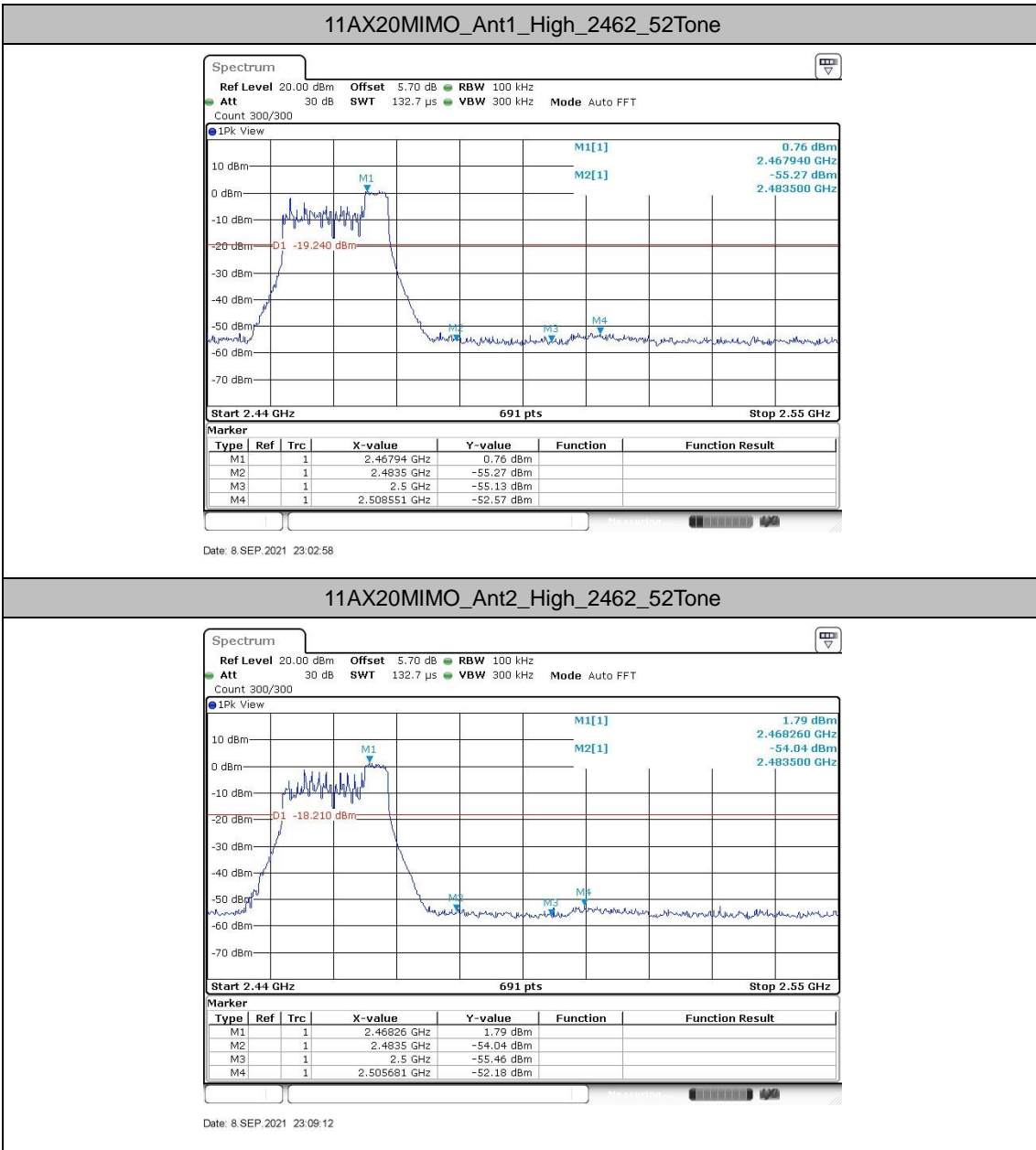


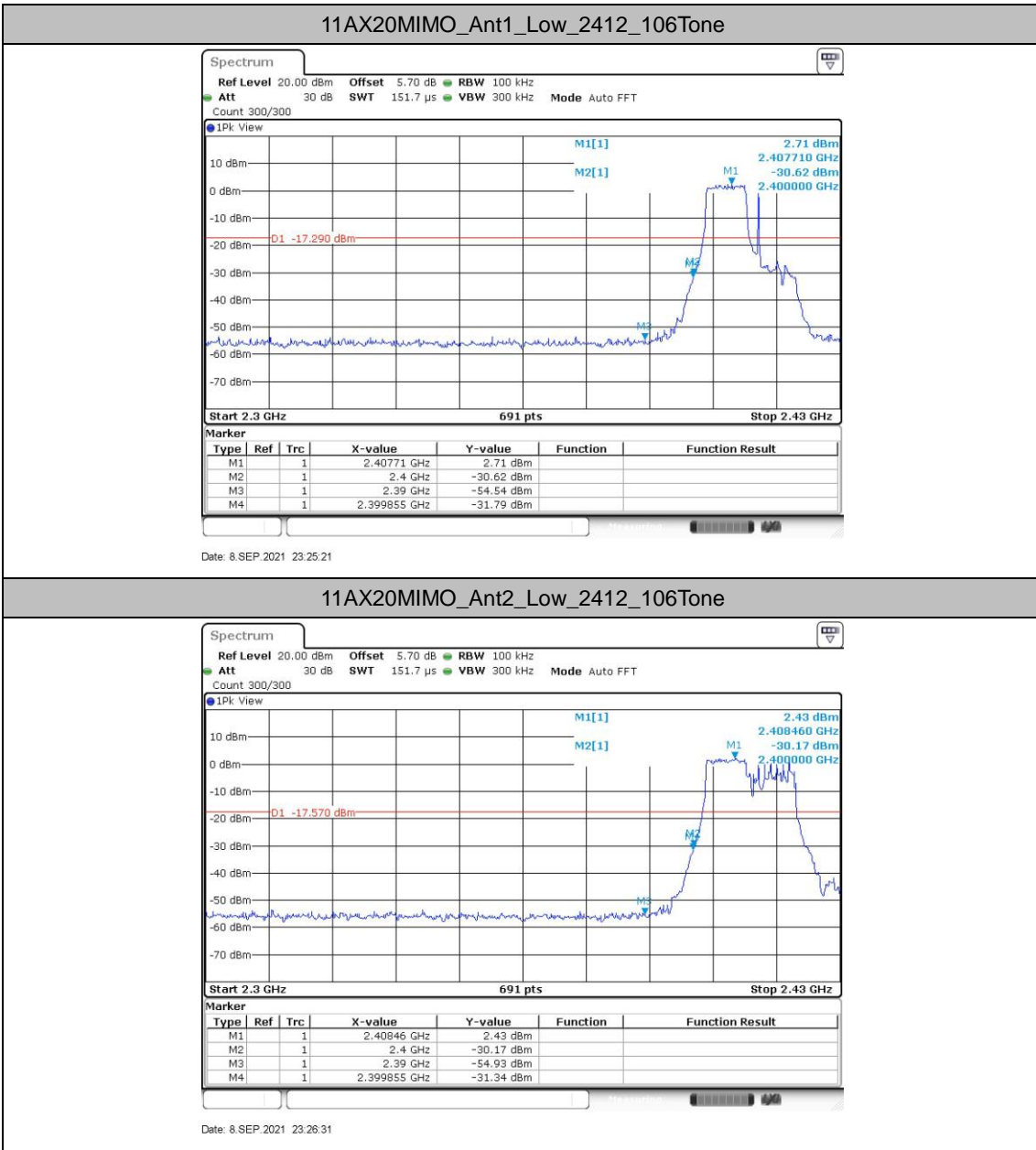
1.1.1 Trigger-Based

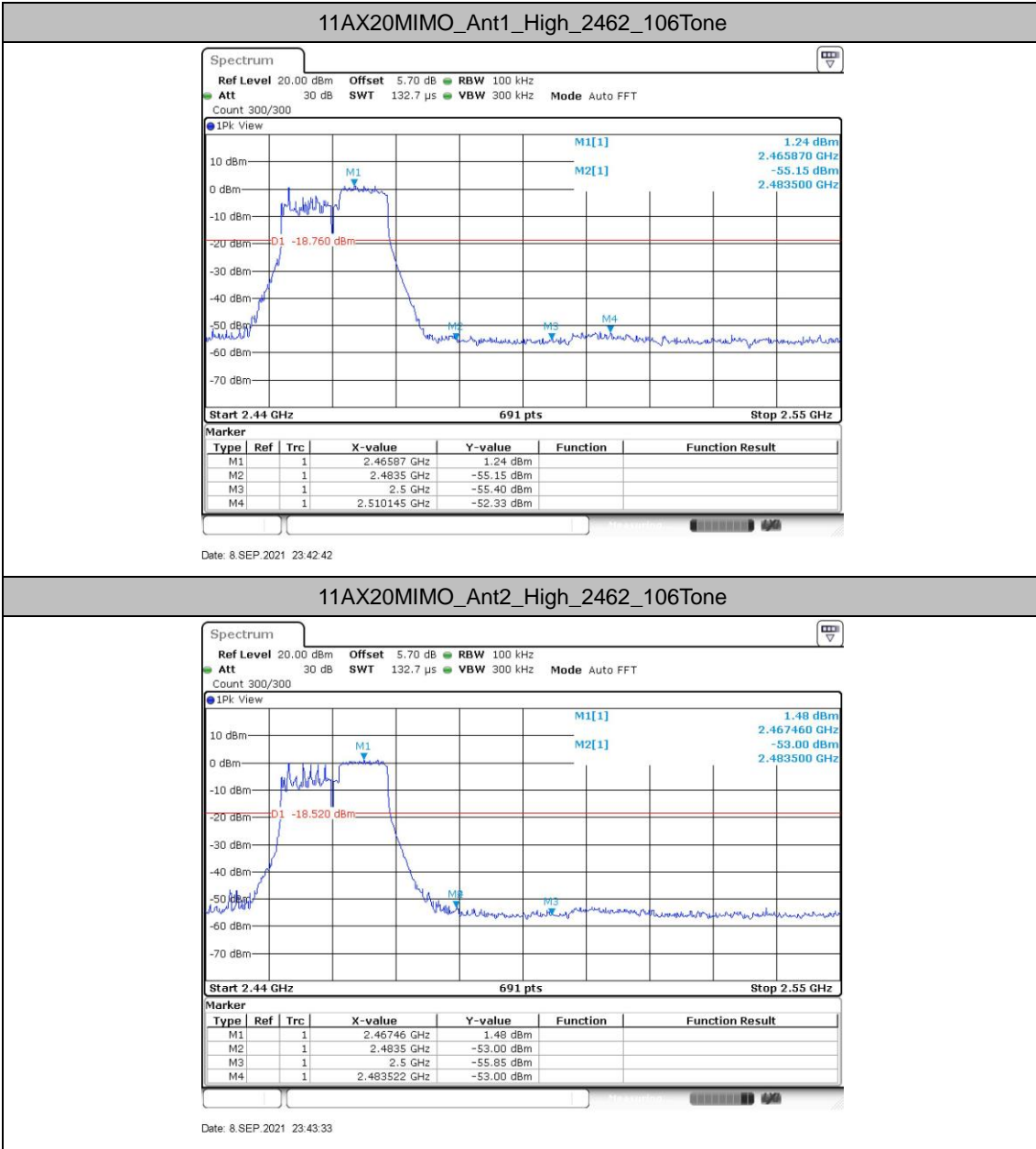


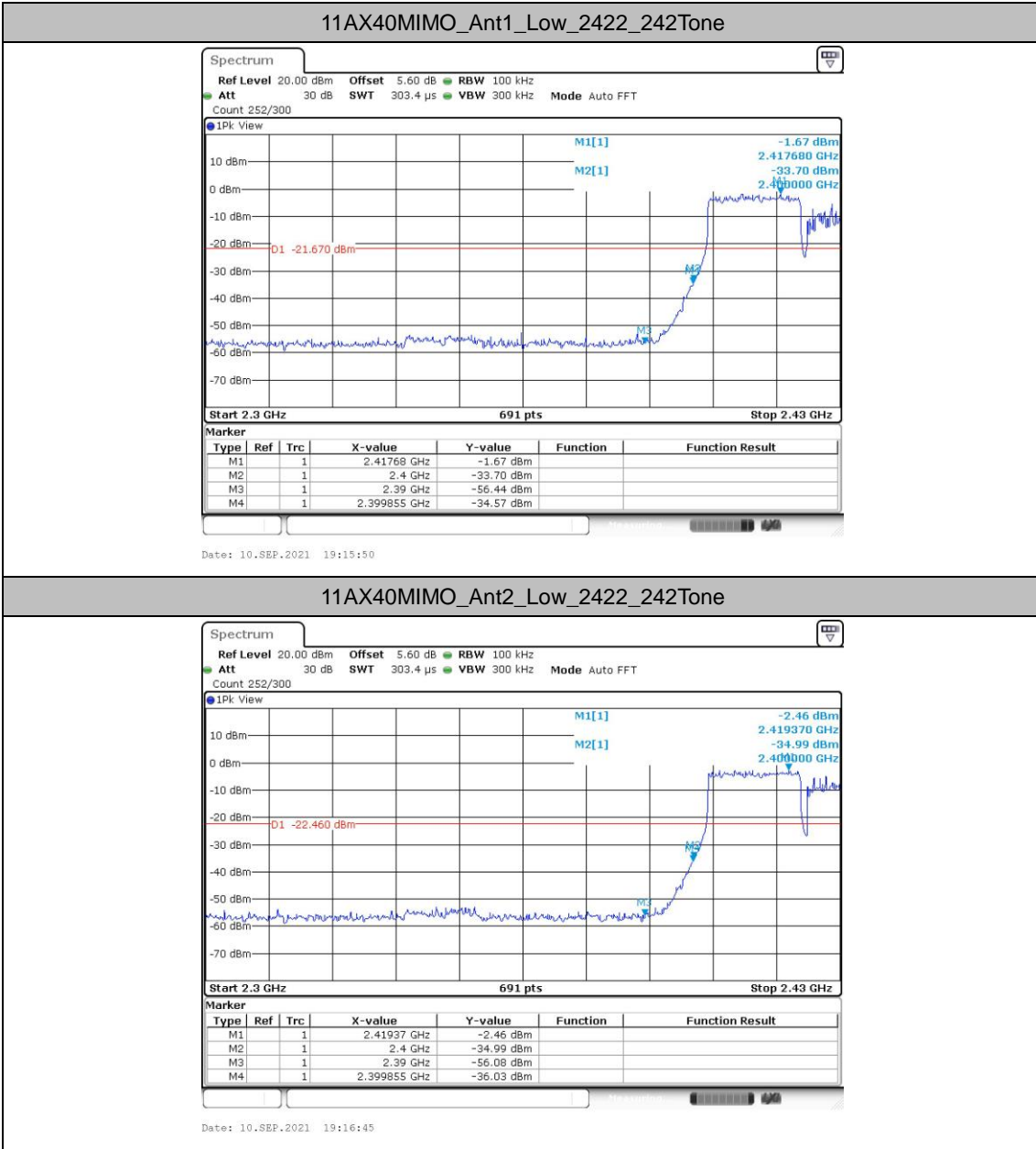


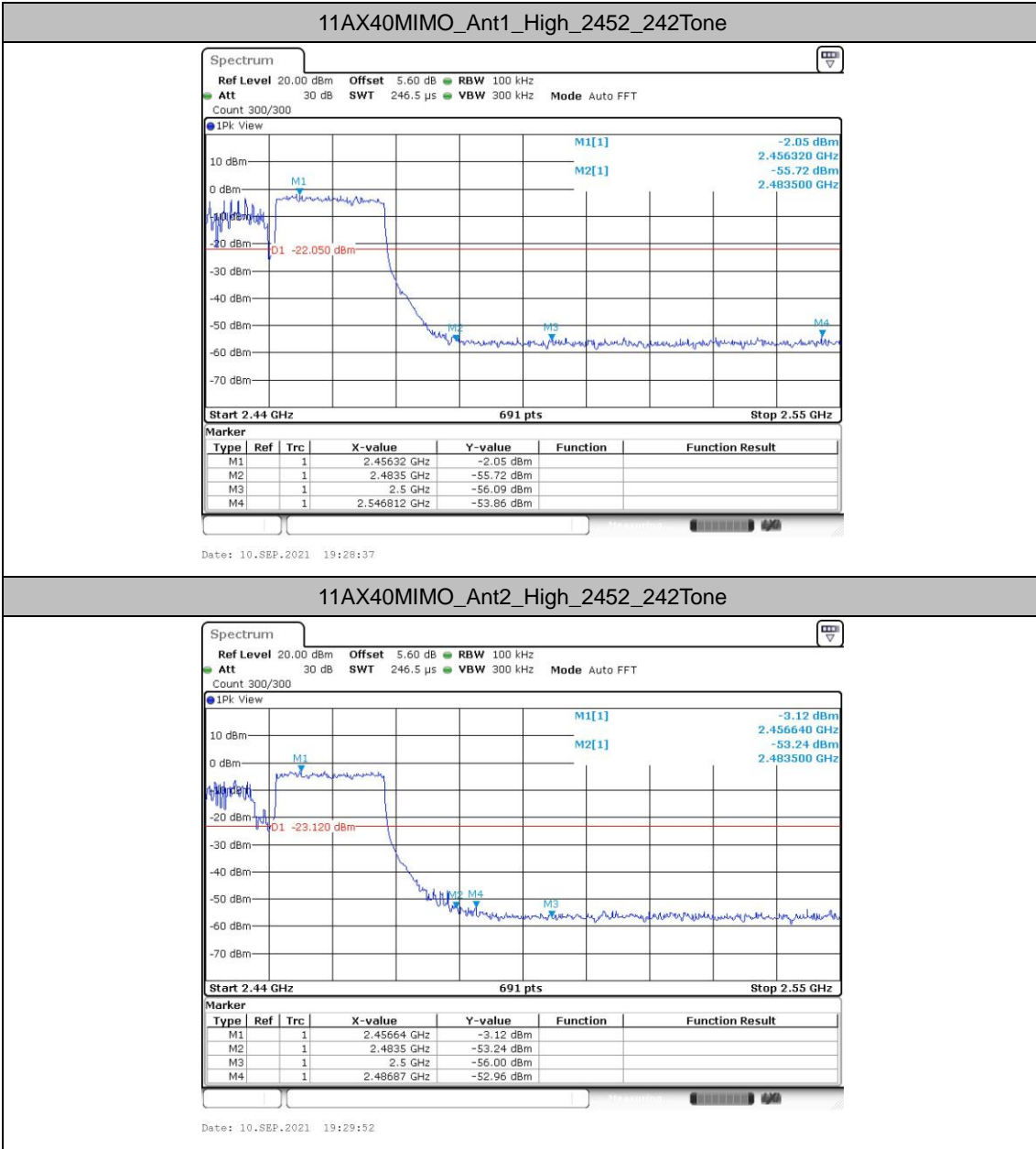








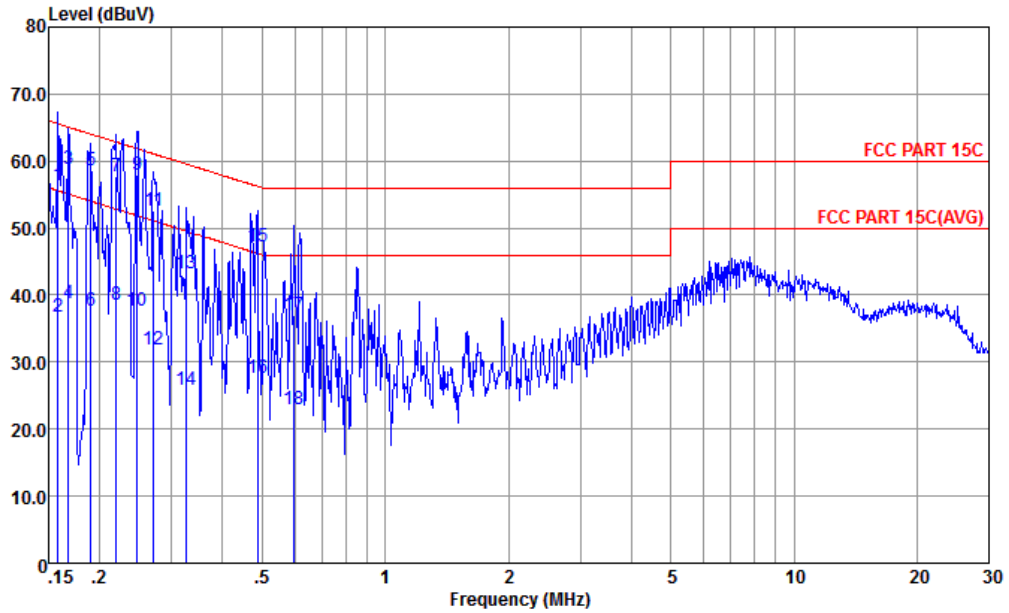






Appendix B. AC Conducted Emission Test Results

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.		

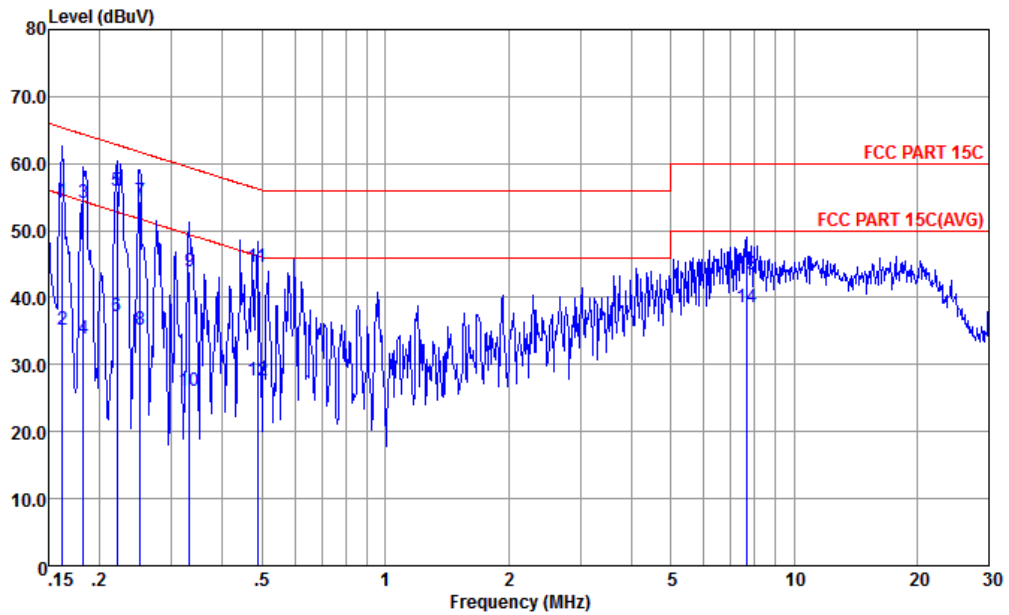


Site : CO01-KS
 Condition : FCC PART 15C LISN-L-060105-CN02 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.158	56.43	-9.13	65.56	45.90	0.07	10.46	QP
2	0.158	36.85	-18.71	55.56	26.32	0.07	10.46	Average
3	0.168	58.81	-6.27	65.08	48.30	0.08	10.43	QP
4	0.168	38.71	-16.37	55.08	28.20	0.08	10.43	Average
5	0.190	58.57	-5.45	64.02	48.11	0.08	10.38	QP
6	0.190	37.57	-16.45	54.02	27.11	0.08	10.38	Average
7	0.220	57.64	-5.19	62.83	47.20	0.09	10.35	QP
8	0.220	38.54	-14.29	52.83	28.10	0.09	10.35	Average
9 *	0.247	58.03	-3.83	61.86	47.59	0.10	10.34	QP
10	0.247	37.73	-14.13	51.86	27.29	0.10	10.34	Average
11	0.272	52.62	-8.45	61.07	42.20	0.10	10.32	QP
12	0.272	31.92	-19.15	51.07	21.50	0.10	10.32	Average
13	0.327	43.21	-16.32	59.53	32.81	0.11	10.29	QP
14	0.327	25.91	-23.62	49.53	15.51	0.11	10.29	Average
15	0.486	47.17	-9.06	56.23	36.80	0.13	10.24	QP
16	0.486	27.57	-18.66	46.23	17.20	0.13	10.24	Average
17	0.598	36.98	-19.02	56.00	26.60	0.14	10.24	QP
18	0.598	22.88	-23.12	46.00	12.50	0.14	10.24	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-N-060105-CN02 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.162	54.40	-10.94	65.34	43.80	0.15	10.45	QP
2	0.162	35.10	-20.24	55.34	24.50	0.15	10.45	Average
3	0.182	54.16	-10.21	64.37	43.60	0.16	10.40	QP
4	0.182	33.86	-20.51	54.37	23.30	0.16	10.40	Average
5 *	0.221	56.02	-6.77	62.79	45.50	0.17	10.35	QP
6	0.221	37.12	-15.67	52.79	26.60	0.17	10.35	Average
7	0.251	54.32	-7.41	61.73	43.81	0.18	10.33	QP
8	0.251	35.32	-16.41	51.73	24.81	0.18	10.33	Average
9	0.332	43.99	-15.41	59.40	33.50	0.20	10.29	QP
10	0.332	25.99	-23.41	49.40	15.50	0.20	10.29	Average
11	0.486	44.67	-11.56	56.23	34.20	0.23	10.24	QP
12	0.486	27.67	-18.56	46.23	17.20	0.23	10.24	Average
13	7.646	43.55	-16.45	60.00	32.21	1.03	10.31	QP
14	7.646	38.45	-11.55	50.00	27.11	1.03	10.31	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

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2331.97	53.26	-20.74	74	50.01	30.43	7.6	34.78	377	130	P	H
		2389.04	41.94	-12.06	54	38.43	30.5	7.72	34.71	377	130	A	H
	*	2412	101.25	-	-	97.61	30.57	7.75	34.68	377	130	P	H
	*	2412	97.81	-	-	94.17	30.57	7.75	34.68	377	130	A	H
		2383.19	53.02	-20.98	74	49.58	30.48	7.69	34.73	211	320	P	V
		2388.39	41.8	-12.2	54	38.29	30.5	7.72	34.71	211	320	A	V
	*	2412	103.97	-	-	100.33	30.57	7.75	34.68	211	320	P	V
	*	2414	100.41	-	-	96.77	30.57	7.75	34.68	211	320	A	V
802.11b CH 11 2462MHz		2499.64	53.02	-20.98	74	48.8	30.93	7.89	34.6	354	136	P	H
		2487.04	42.17	-11.83	54	38.08	30.86	7.86	34.63	354	136	A	H
	*	2462	98.78	-	-	94.81	30.79	7.83	34.65	354	136	P	H
	*	2464	95.41	-	-	91.42	30.79	7.83	34.63	354	136	A	H
		2489.02	53.46	-20.54	74	49.24	30.93	7.89	34.6	234	322	P	V
		2486.26	42.46	-11.54	54	38.37	30.86	7.86	34.63	234	322	A	V
	*	2462	102.44	-	-	98.47	30.79	7.83	34.65	234	322	P	V
	*	2464	99.12	-	-	95.13	30.79	7.83	34.63	234	322	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 (Harmonic @ 3m)

Table with 14 columns: WIFI Ant. 1+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 CH 01 (2412MHz) and CH 06 (2437MHz) and CH 11 (2462MHz).



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

WIFI Ant. 1+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		2389.17	60.27	-13.73	74	56.76	30.5	7.72	34.71	377	61	P	H
		2389.82	45.87	-8.13	54	42.36	30.5	7.72	34.71	377	61	A	H
	*	2408	103.05	-	-	99.44	30.57	7.75	34.71	377	61	P	H
	*	2408	94.73	-	-	91.12	30.57	7.75	34.71	377	61	A	H
		2389.95	60.81	-13.19	74	57.3	30.5	7.72	34.71	291	360	P	V
		2389.95	47.97	-6.03	54	44.46	30.5	7.72	34.71	291	360	A	V
	*	2410	104.76	-	-	101.15	30.57	7.75	34.71	291	360	P	V
	*	2410	96.98	-	-	93.37	30.57	7.75	34.71	291	360	A	V
802.11g CH 11 2462MHz		2483.92	58.69	-15.31	74	54.6	30.86	7.86	34.63	356	59	P	H
		2483.5	46.03	-7.97	54	41.94	30.86	7.86	34.63	356	59	A	H
	*	2458	102.32	-	-	98.35	30.79	7.83	34.65	356	59	P	H
	*	2458	93.62	-	-	89.65	30.79	7.83	34.65	356	59	A	H
		2483.74	60.12	-13.88	74	56.03	30.86	7.86	34.63	100	133	P	V
		2483.5	46.99	-7.01	54	42.9	30.86	7.86	34.63	100	133	A	V
	*	2460	103.11	-	-	99.14	30.79	7.83	34.65	100	133	P	V
	*	2458	94.98	-	-	91.01	30.79	7.83	34.65	100	133	A	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



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

WIFI Ant. 1+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		4824	42.34	-31.66	74	56.56	34.61	11.21	60.04	300	0	P	H
		4824	43.23	-30.77	74	57.45	34.61	11.21	60.04	300	360	P	V
802.11g CH 06 2437MHz		4872	41.87	-32.13	74	55.93	34.69	11.28	60.03	300	0	P	H
		7308	44.77	-29.23	74	54.88	36.68	13.72	60.51	300	0	P	H
		4872	40.9	-33.1	74	54.96	34.69	11.28	60.03	300	360	P	V
		7308	44.54	-29.46	74	54.65	36.68	13.72	60.51	300	360	P	V
802.11g CH 11 2462MHz		4926	43.04	-30.96	74	56.94	34.77	11.35	60.02	300	0	P	H
		7386	45.03	-28.97	74	55.12	36.64	13.8	60.53	300	0	P	H
		4926	45.69	-28.31	74	59.59	34.77	11.35	60.02	300	360	P	V
		7386	44.5	-29.5	74	54.59	36.64	13.8	60.53	300	360	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 802.11 ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+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)
802.11ax HE20 Full CH 01 2412MHz		2388.13	54.6	-19.4	74	51.09	30.5	7.72	34.71	329	45	P	H
		2389.95	42.95	-11.05	54	39.44	30.5	7.72	34.71	329	45	A	H
	*	2414	103.68	-	-	100.04	30.57	7.75	34.68	329	45	P	H
	*	2414	93.61	-	-	89.97	30.57	7.75	34.68	329	45	A	H
		2388	62.69	-11.31	74	59.18	30.5	7.72	34.71	292	0	P	V
		2389.95	48.66	-5.34	54	45.15	30.5	7.72	34.71	292	0	A	V
	*	2416	105.93	-	-	102.29	30.57	7.75	34.68	292	0	P	V
	*	2406	95.58	-	-	91.97	30.57	7.75	34.71	292	0	A	V
8802.11ax HE20 Full CH 11 2462MHz		2483.62	58.17	-15.83	74	54.08	30.86	7.86	34.63	355	59	P	H
		2483.5	45.72	-8.28	54	41.63	30.86	7.86	34.63	355	59	A	H
	*	2464	103.17	-	-	99.18	30.79	7.83	34.63	355	59	P	H
	*	2464	93.63	-	-	89.64	30.79	7.83	34.63	355	59	A	H
		2483.74	59.42	-14.58	74	55.33	30.86	7.86	34.63	100	107	P	V
		2483.5	46.62	-7.38	54	42.53	30.86	7.86	34.63	100	107	A	V
	*	2466	103.7	-	-	99.71	30.79	7.83	34.63	100	107	P	V
	*	2464	94.03	-	-	90.04	30.79	7.83	34.63	100	107	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 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+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)
802.11ax HE20 Full CH 01 2412MHz		4824	42.48	-31.52	74	56.7	34.61	11.21	60.04	300	0	P	H
		4824	42.35	-31.65	74	56.57	34.61	11.21	60.04	300	360	P	V
802.11ax HE20 Full CH 06 2437MHz		4872	40.67	-33.33	74	54.73	34.69	11.28	60.03	300	0	P	H
		7308	44.2	-29.8	74	54.31	36.68	13.72	60.51	300	0	P	H
		4872	40.5	-33.5	74	54.56	34.69	11.28	60.03	300	360	P	V
		7308	44.42	-29.58	74	54.53	36.68	13.72	60.51	300	360	P	V
802.11ax HE20 Full CH 11 2462MHz		4926	42.62	-31.38	74	56.52	34.77	11.35	60.02	300	0	P	H
		7386	45.06	-28.94	74	55.15	36.64	13.8	60.53	300	0	P	H
		4926	43.53	-30.47	74	57.43	34.77	11.35	60.02	300	360	P	V
		7386	44.97	-29.03	74	55.06	36.64	13.8	60.53	300	360	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 802.11ax HE20 Partial RU (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+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 802.11ax HE20 and CH 01, and a Remark section at the bottom.



**2.4GHz 2400~2483.5MHz
WIFI 802.11ax HE20 Partial RU (Band Edge @ 3m)**

WIFI Ant. 1+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)
802.11ax HE20 Partial 52/37 CH 01 2412MHz		2322.61	53.67	-20.33	74	50.01	30.43	7.6	34.37	267	51	P	H
		2389.82	42.37	-11.63	54	38.49	30.5	7.72	34.34	267	51	A	H
		2404	105.72	-	-	101.74	30.57	7.75	34.34	267	51	P	H
		2404	96.33	-	-	92.35	30.57	7.75	34.34	267	51	A	H
		2379.68	53.88	-20.12	74	50.06	30.48	7.69	34.35	100	68	P	V
		2389.95	42.25	-11.75	54	38.37	30.5	7.72	34.34	100	68	A	V
		2404	106.78	-	-	102.8	30.57	7.75	34.34	100	68	P	V
		2404	96.76	-	-	92.78	30.57	7.75	34.34	100	68	A	V
802.11ax HE20 Partial 52/40 CH 11 2462MHz		2499.88	54.11	-19.89	74	49.52	30.93	7.89	34.23	104	44	P	H
		2488.18	42.76	-11.24	54	38.2	30.93	7.89	34.26	104	44	A	H
		2468	98.12	-	-	93.76	30.79	7.83	34.26	104	44	P	H
		2468	89.25	-	-	84.89	30.79	7.83	34.26	104	44	A	H
		2489.86	53.38	-20.62	74	48.79	30.93	7.89	34.23	235	329	P	V
		2488.6	42.69	-11.31	54	38.13	30.93	7.89	34.26	235	329	A	V
		2470	105.34	-	-	100.98	30.79	7.83	34.26	235	329	P	V
		2470	95.24	-	-	90.88	30.79	7.83	34.26	235	329	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 802.11ax HE20 Partial RU (Band Edge @ 3m)**

WIFI Ant. 1+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)
802.11ax HE20 Partial 106/53 CH 01 2412MHz		2370.58	53.31	-20.69	74	49.49	30.48	7.69	34.35	379	57	P	H
		2389.3	41.88	-12.12	54	38	30.5	7.72	34.34	379	57	A	H
		2404	103.66	-	-	99.68	30.57	7.75	34.34	379	57	P	H
		2404	95.19	-	-	91.21	30.57	7.75	34.34	379	57	A	H
		2334.83	53.2	-20.8	74	49.48	30.45	7.63	34.36	100	70	P	V
		2389.82	41.88	-12.12	54	38	30.5	7.72	34.34	100	70	A	V
		2404	105.4	-	-	101.42	30.57	7.75	34.34	100	70	P	V
		2404	96.59	-	-	92.61	30.57	7.75	34.34	100	70	A	V
802.11ax HE20 Partial 106/54 CH 11 2462MHz		2485.42	54.18	-19.82	74	49.72	30.86	7.86	34.26	100	65	P	H
		2492.68	42.59	-11.41	54	38	30.93	7.89	34.23	100	65	A	H
		2466	102.45	-	-	98.09	30.79	7.83	34.26	100	65	P	H
		2466	92.5	-	-	88.14	30.79	7.83	34.26	100	65	A	H
		2493.16	54.13	-19.87	74	49.54	30.93	7.89	34.23	232	330	P	V
		2489.92	42.63	-11.37	54	38.04	30.93	7.89	34.23	232	330	A	V
		2470	103.46	-	-	99.1	30.79	7.83	34.26	232	330	P	V
		2470	94.01	-	-	89.65	30.79	7.83	34.26	232	330	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 802.11 ax HE40 Full (Band Edge @ 3m)**

WIFI Ant. 1+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)
802.11ax HE40 Full CH 03 2422MHz		2389.43	53.91	-20.09	74	50.4	30.5	7.72	34.71	369	47	P	H
		2388	42.81	-11.19	54	39.3	30.5	7.72	34.71	369	47	A	H
		2490.76	52.94	-21.06	74	48.72	30.93	7.89	34.6	369	47	P	H
		2489.86	42.01	-11.99	54	37.79	30.93	7.89	34.6	369	47	A	H
	*	2434	101.34	-	-	97.6	30.64	7.78	34.68	369	47	P	H
	*	2424	89.83	-	-	86.09	30.64	7.78	34.68	369	47	A	H
		2389.3	58.75	-15.25	74	55.24	30.5	7.72	34.71	326	0	P	V
		2389.95	47.07	-6.93	54	43.56	30.5	7.72	34.71	326	0	A	V
		2486.92	53.09	-20.91	74	49	30.86	7.86	34.63	326	0	P	V
		2486.26	42.02	-11.98	54	37.93	30.86	7.86	34.63	326	0	A	V
	*	2428	99.91	-	-	96.17	30.64	7.78	34.68	326	0	P	V
	*	2428	90.76	-	-	87.02	30.64	7.78	34.68	326	0	A	V
802.11ax HE40 Full CH 06 2437MHz		2389.69	54.77	-19.23	74	51.26	30.5	7.72	34.71	368	46	P	H
		2389.95	43.55	-10.45	54	40.04	30.5	7.72	34.71	368	46	A	H
		2491.42	53.46	-20.54	74	49.24	30.93	7.89	34.6	368	46	P	H
		2485.18	42.45	-11.55	54	38.36	30.86	7.86	34.63	368	46	A	H
	*	2428	98.76	-	-	95.02	30.64	7.78	34.68	368	46	P	H
	*	2430	90.05	-	-	86.31	30.64	7.78	34.68	368	46	A	H
		2389.82	58.1	-15.9	74	54.59	30.5	7.72	34.71	293	23	P	V
		2389.95	44.21	-9.79	54	40.7	30.5	7.72	34.71	293	23	A	V
		2484.04	54.2	-19.8	74	50.11	30.86	7.86	34.63	293	23	P	V
		2483.5	43.5	-10.5	54	39.41	30.86	7.86	34.63	293	23	A	V
	*	2432	100.31	-	-	96.57	30.64	7.78	34.68	293	23	P	V
	*	2432	91.13	-	-	87.39	30.64	7.78	34.68	293	23	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1+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)
802.11ax HE40 Full CH 09 2452MHz		2375.26	56.4	-17.6	74	48.22	32.15	7.69	31.66	355	63	P	H
		2389.95	45.07	-8.93	54	36.8	32.2	7.72	31.65	355	63	A	H
		2483.62	57.65	-16.35	74	53.56	30.86	7.86	34.63	355	63	P	H
		2483.98	45.86	-8.14	54	41.77	30.86	7.86	34.63	355	63	A	H
		2454	99.78	-	-	95.81	30.79	7.83	34.65	355	63	P	H
		2454	89.51	-	-	85.54	30.79	7.83	34.65	355	63	A	H
		2353.03	56	-18	74	47.9	32.11	7.66	31.67	229	1	P	V
		2388.91	45.08	-8.92	54	36.81	32.2	7.72	31.65	229	1	A	V
		2486.44	58.52	-15.48	74	54.43	30.86	7.86	34.63	229	1	P	V
		2485.9	46.1	-7.9	54	42.01	30.86	7.86	34.63	229	1	A	V
	2446	100.06	-	-	96.2	30.71	7.8	34.65	229	1	P	V	
	2448	90.42	-	-	86.56	30.71	7.8	34.65	229	1	A	V	
Remark	<p>3. No other spurious found.</p> <p>4. All results are PASS against Peak and Average limit line.</p>												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+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)
802.11ax		4842	40.79	-33.21	74	54.96	34.63	11.23	60.03	300	0	P	H
HE40 Full		7266	44.41	-29.59	74	54.55	36.69	13.68	60.51	300	0	P	H
CH 03		4842	40.83	-33.17	74	55	34.63	11.23	60.03	300	360	P	V
2422MHz		7266	44.61	-29.39	74	54.75	36.69	13.68	60.51	300	360	P	V
802.11ax		4872	40.27	-33.73	74	54.33	34.69	11.28	60.03	300	0	P	H
HE40 Full		7308	44.25	-29.75	74	54.36	36.68	13.72	60.51	300	0	P	H
CH 06		4872	40.34	-33.66	74	54.4	34.69	11.28	60.03	300	360	P	V
2437MHz		7308	44.45	-29.55	74	54.56	36.68	13.72	60.51	300	360	P	V
802.11ax		4902	40.86	-33.14	74	54.82	34.74	11.32	60.02	300	0	P	H
HE40 Full		7356	44.95	-29.05	74	55.04	36.66	13.77	60.52	300	0	P	H
CH 09		4902	41.88	-32.12	74	55.84	34.74	11.32	60.02	300	360	P	V
2452MHz		7356	44.32	-29.68	74	54.41	36.66	13.77	60.52	300	360	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 802.11ax HE40 Partial RU (Band Edge @ 3m)**

WIFI Ant. 1+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)
802.11ax HE40 Partial 242/61 CH 03 2422MHz		2338.73	53.67	-20.33	74	49.95	30.45	7.63	34.36	266	53	P	H
		2388.91	41.87	-12.13	54	37.99	30.5	7.72	34.34	266	53	A	H
		2489.14	53.72	-20.28	74	49.13	30.93	7.89	34.23	266	53	P	H
		2491	42.58	-11.42	54	37.99	30.93	7.89	34.23	266	53	A	H
		2414	100.19	-	-	96.18	30.57	7.75	34.31	266	53	P	H
		2404	90.82	-	-	86.84	30.57	7.75	34.34	266	53	A	H
		2347.7	53.4	-20.6	74	49.68	30.45	7.63	34.36	100	69	P	V
		2389.95	41.92	-12.08	54	38.04	30.5	7.72	34.34	100	69	A	V
		2495.74	53.53	-20.47	74	48.94	30.93	7.89	34.23	100	69	P	V
		2492.44	42.61	-11.39	54	38.02	30.93	7.89	34.23	100	69	A	V
		2406	101.26	-	-	97.28	30.57	7.75	34.34	100	69	P	V
		2404	91.57	-	-	87.59	30.57	7.75	34.34	100	69	A	V
802.11ax HE40 Partial 242/62 CH 09 2452MHz		2369.67	53.21	-20.79	74	49.39	30.48	7.69	34.35	249	136	P	H
		2389.95	41.76	-12.24	54	37.88	30.5	7.72	34.34	249	136	A	H
		2489.8	54.08	-19.92	74	49.49	30.93	7.89	34.23	249	136	P	H
		2483.56	42.53	-11.47	54	38.07	30.86	7.86	34.26	249	136	A	H
		2464	97.4	-	-	93.04	30.79	7.83	34.26	249	136	P	H
		2464	87.9	-	-	83.54	30.79	7.83	34.26	249	136	A	H
		2318.84	53.19	-20.81	74	49.53	30.43	7.6	34.37	234	328	P	V
		2388.91	41.75	-12.25	54	37.87	30.5	7.72	34.34	234	328	A	V
		2492.62	53.43	-20.57	74	48.84	30.93	7.89	34.23	234	328	P	V
		2486.92	42.54	-11.46	54	38.08	30.86	7.86	34.26	234	328	A	V
	2470	99.79	-	-	95.43	30.79	7.83	34.26	234	328	P	V	
	2470	90.37	-	-	86.01	30.79	7.83	34.26	234	328	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Emission below 1GHz
2.4GHz WIFI 802.11ax HE20 (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.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11ax HE20 LF		42.61	26.74	-13.26	40	40.27	18.34	0.99	32.86	100	0	P	H
		65.89	20.69	-19.31	40	39.27	13.28	1.22	33.08	-	-	P	H
		95.96	20.18	-23.32	43.5	34.18	17.26	1.48	32.74	-	-	P	H
		140.58	18.79	-24.71	43.5	32.19	17.62	1.8	32.82	-	-	P	H
		211.39	20.36	-23.14	43.5	34.23	17.02	2.21	33.1	-	-	P	H
		832.19	28.97	-17.03	46	30.04	27.09	4.4	32.56	-	-	P	H
		43.58	28.72	-11.28	40	42.78	17.82	1	32.88	100	360	P	V
		70.74	23.04	-16.96	40	41.48	13.27	1.27	32.98	-	-	P	V
		183.26	19.86	-23.64	43.5	34.1	16.7	2.06	33	-	-	P	V
		324.88	20.61	-25.39	46	29.97	20.8	2.74	32.9	-	-	P	V
		567.38	27.45	-18.55	46	30.62	25.76	3.64	32.57	-	-	P	V
	691.54	26.99	-19.01	46	30.02	25.73	4.02	32.78	-	-	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:

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+2		(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)

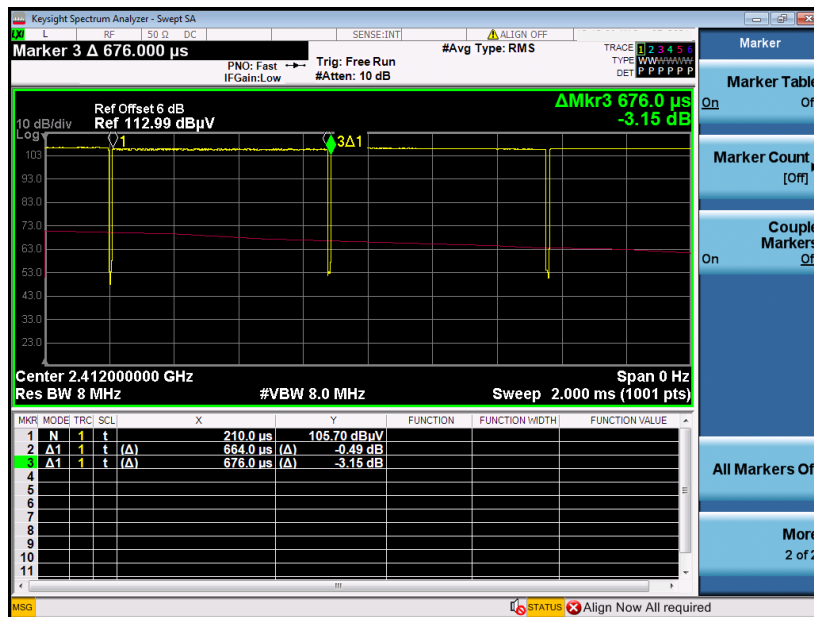
Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Duty Cycle Plots

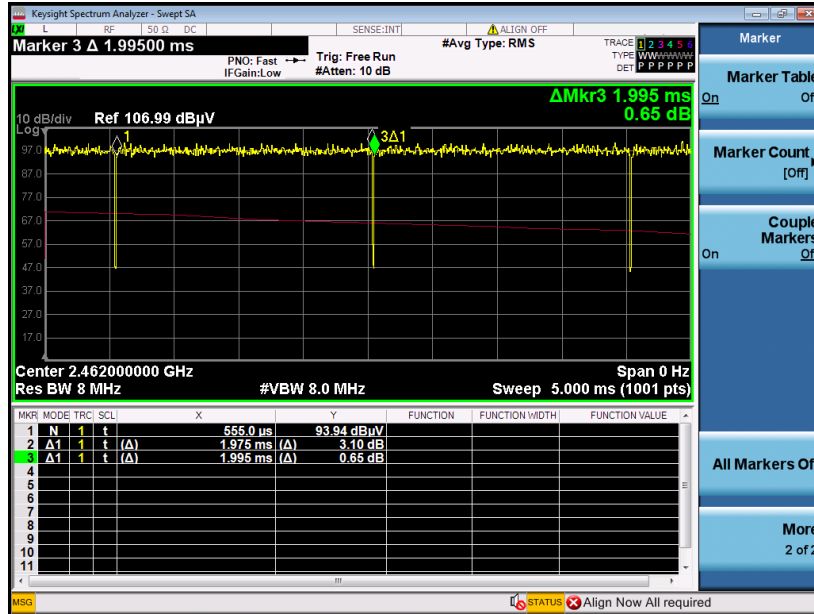
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.22	-	-	10Hz
802.11g	99.00	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz

802.11b





802.11g



802.11ax HE20





802.11ax HE40

