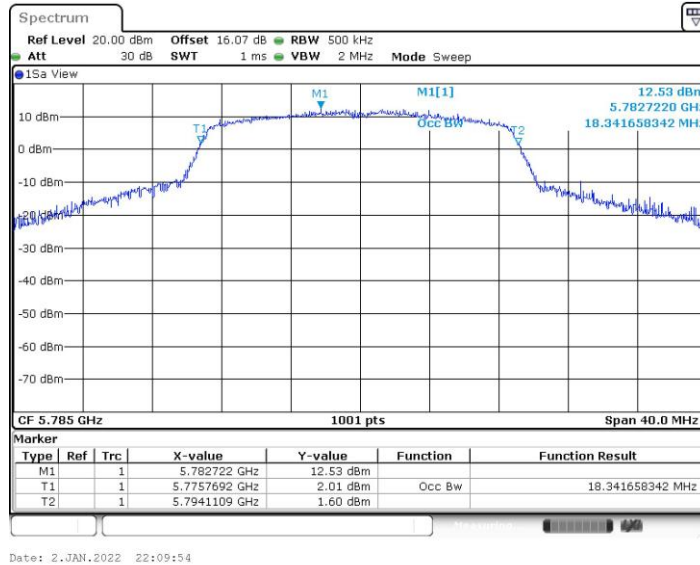
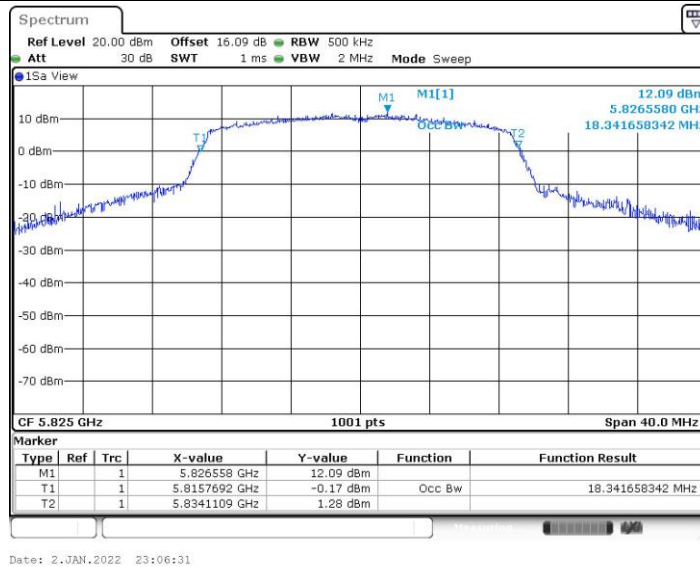




11N20SISO_Ant1_5785

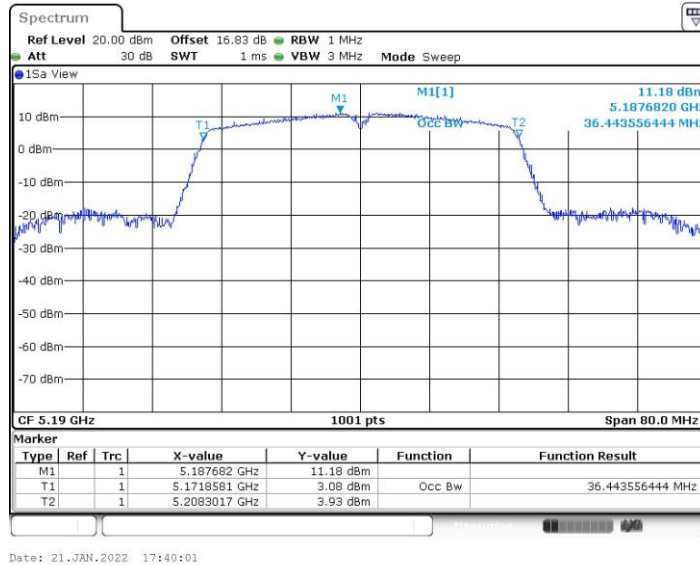


11N20SISO_Ant1_5825





11N40SISO_Ant1_5190

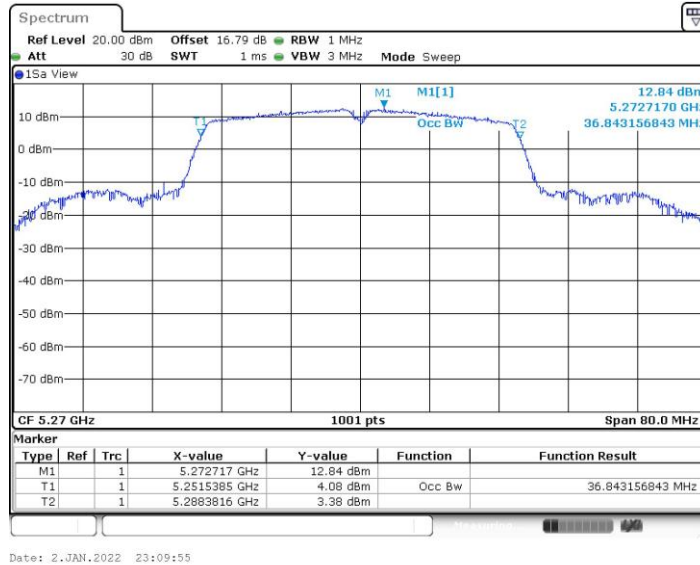


11N40SISO_Ant1_5230





11N40SISO_Ant1_5270

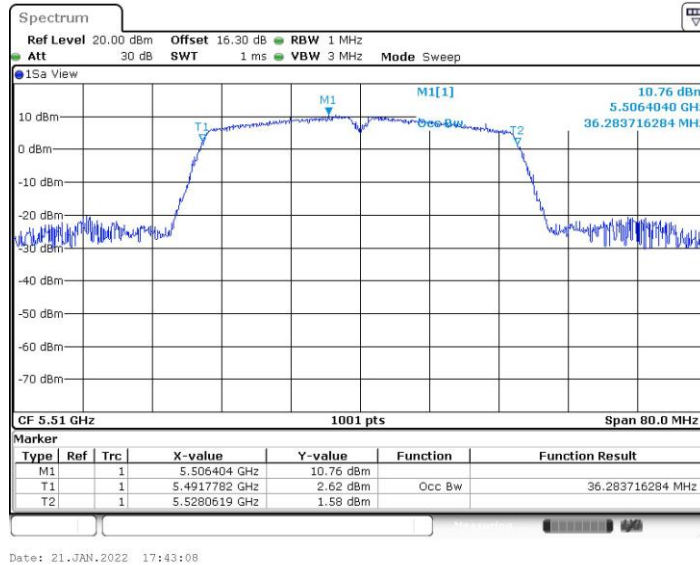


11N40SISO_Ant1_5310

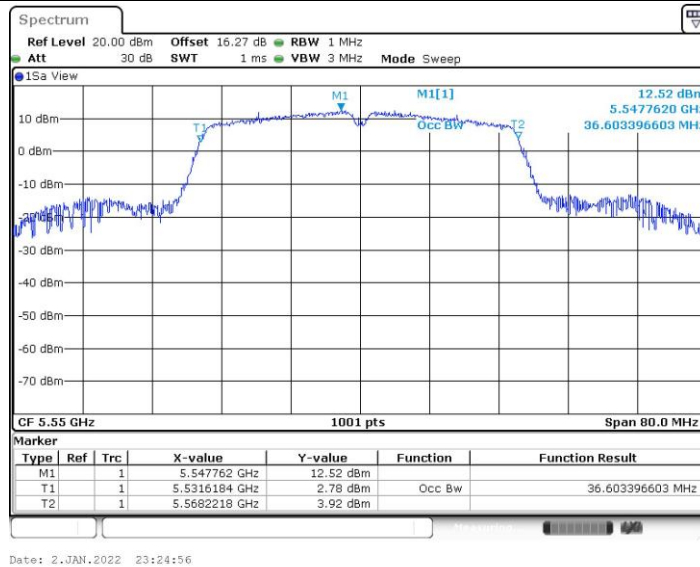




11N40SISO_Ant1_5510

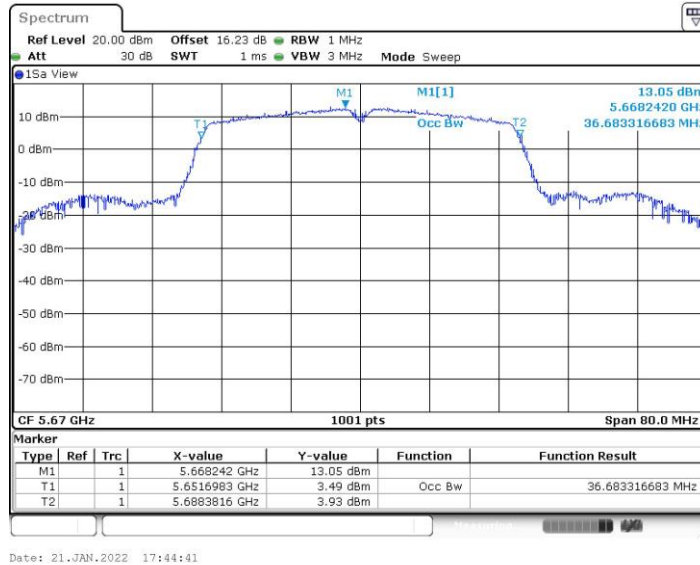


11N40SISO_Ant1_5550

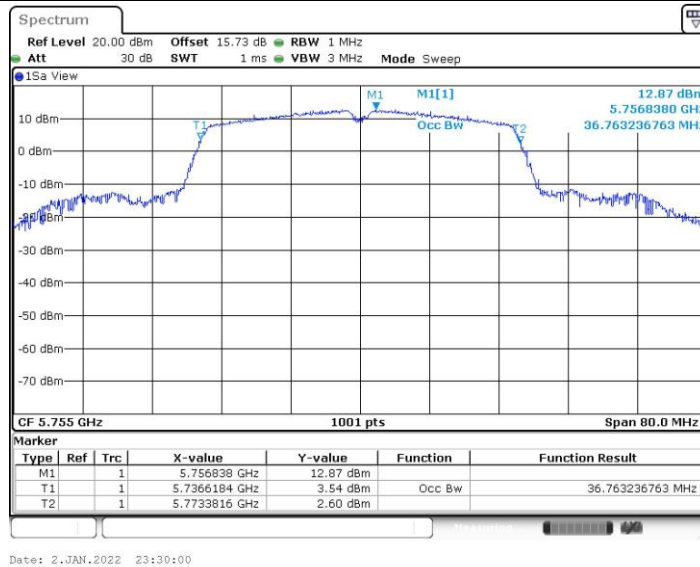




11N40SISO_Ant1_5670

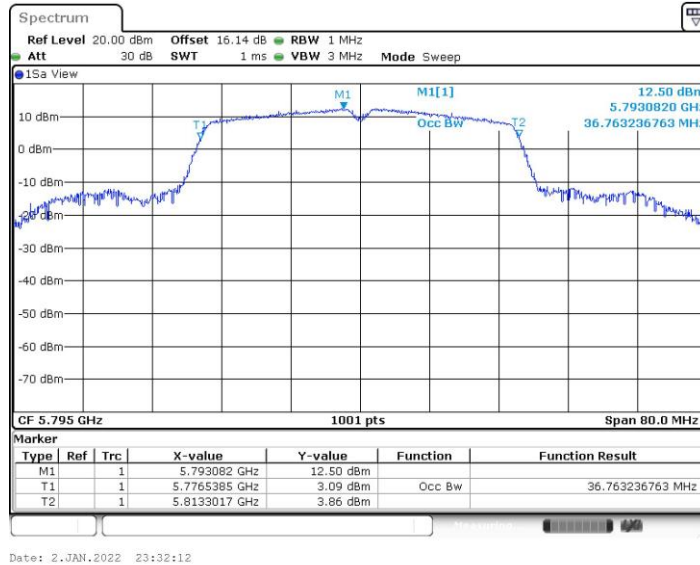


11N40SISO_Ant1_5755

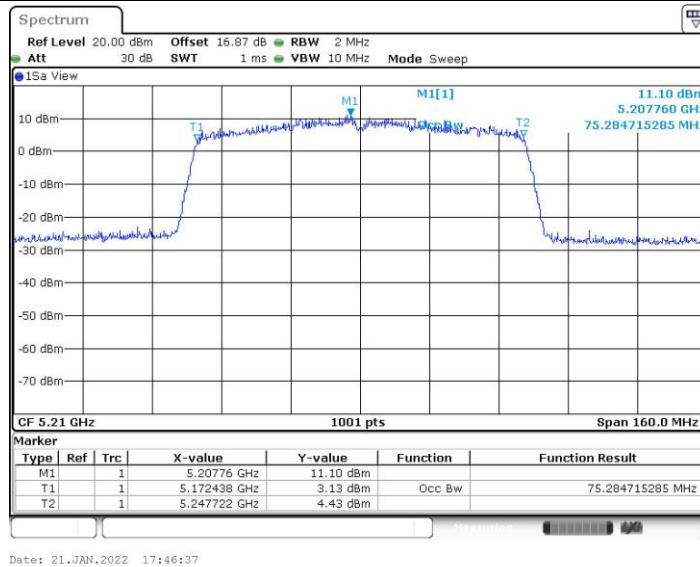


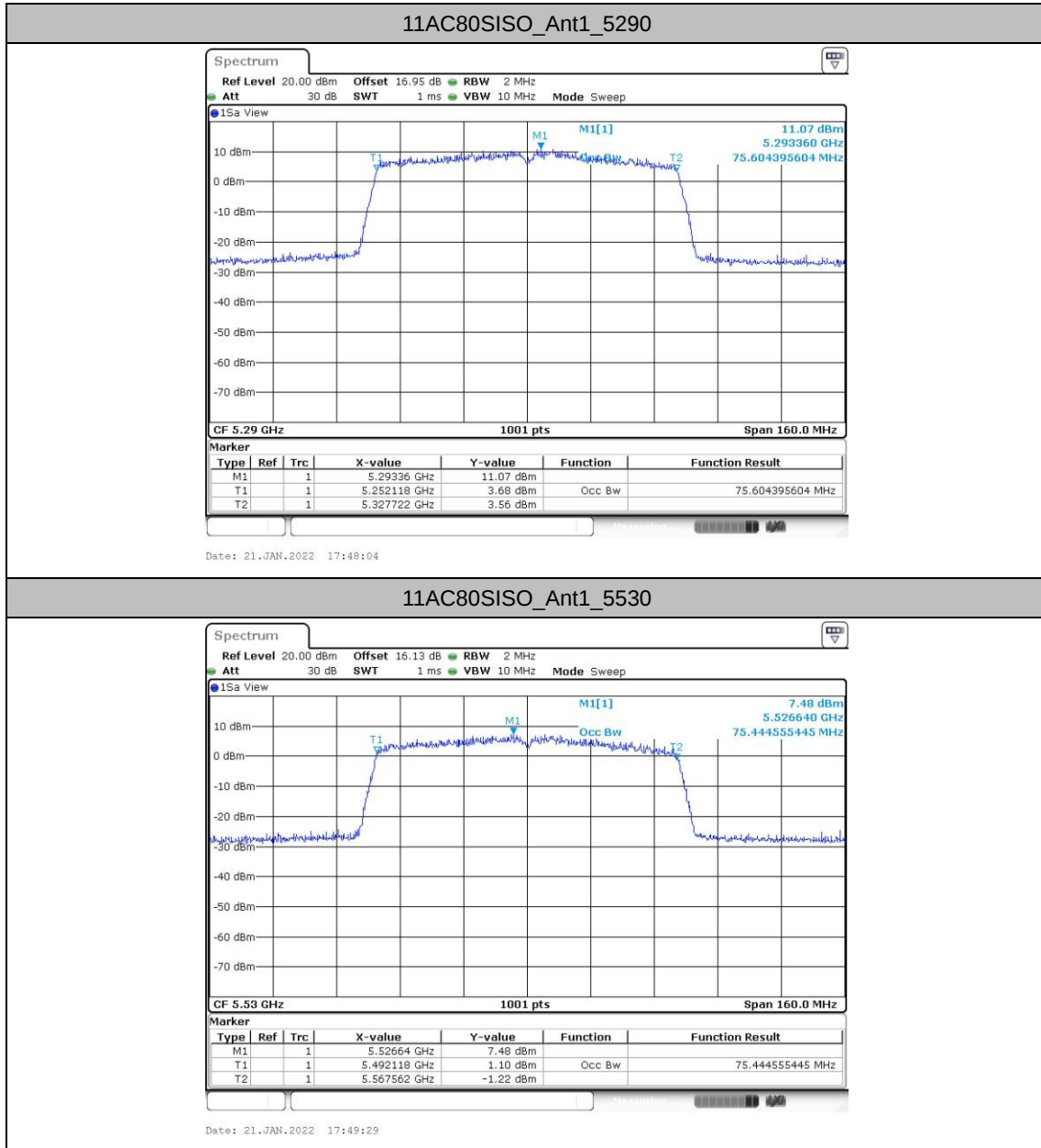


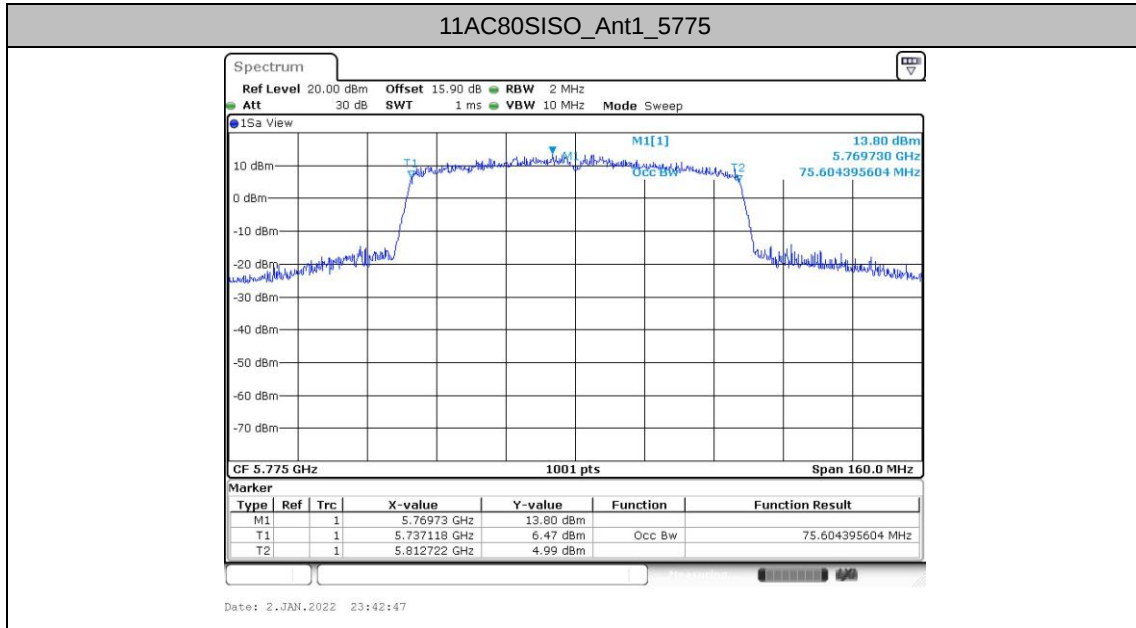
11N40SISO_Ant1_5795



11AC80SISO_Ant1_5210









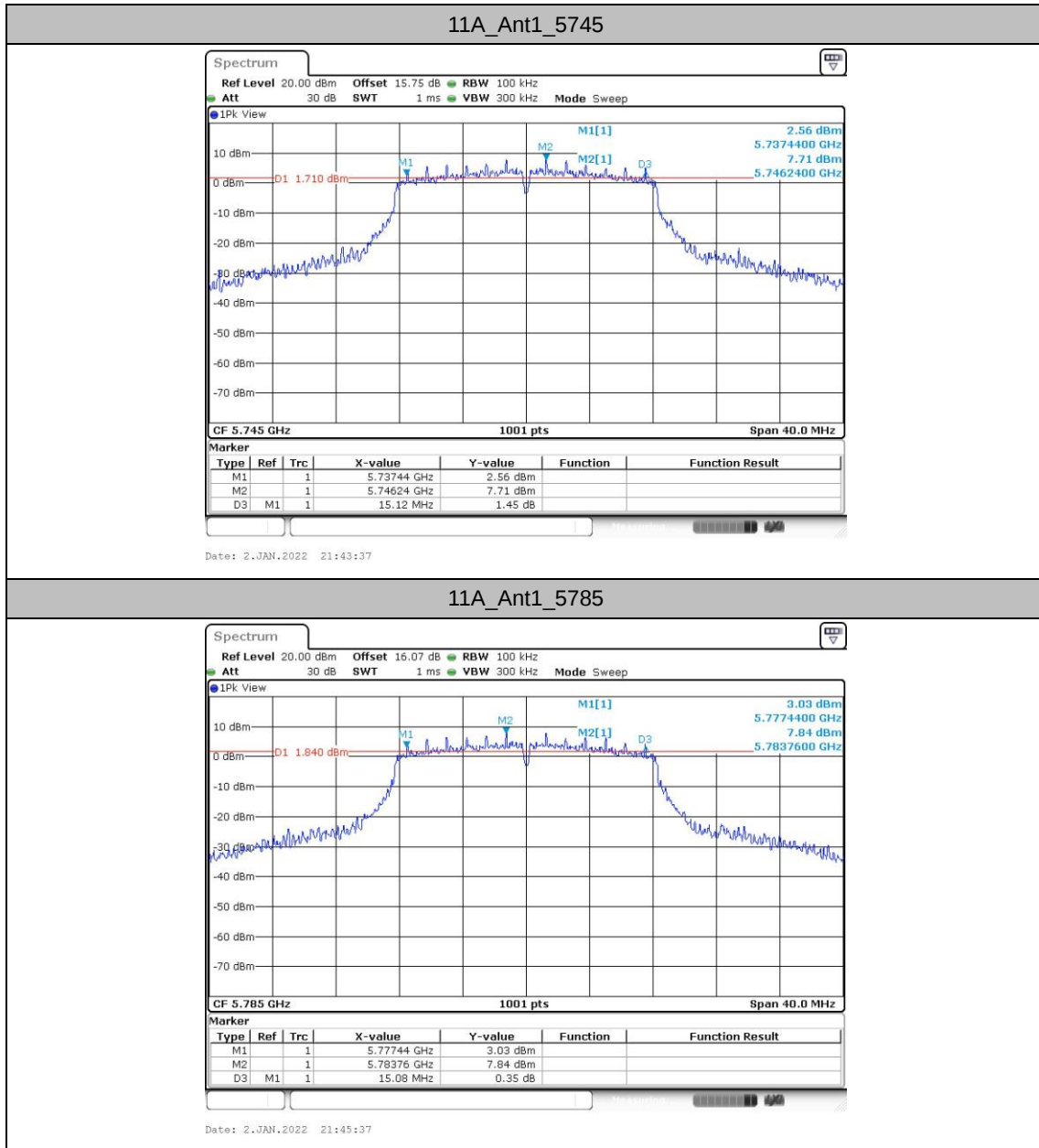
Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.12	5737.44	5752.56	0.5	PASS
		5785	15.08	5777.44	5792.52	0.5	PASS
		5825	15.12	5817.44	5832.56	0.5	PASS
11N20SISO	Ant1	5745	13.88	5738.68	5752.56	0.5	PASS
		5785	15.12	5777.44	5792.56	0.5	PASS
		5825	15.12	5817.44	5832.56	0.5	PASS
11N40SISO	Ant1	5755	35.04	5737.48	5772.52	0.5	PASS
		5795	35.12	5777.48	5812.60	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

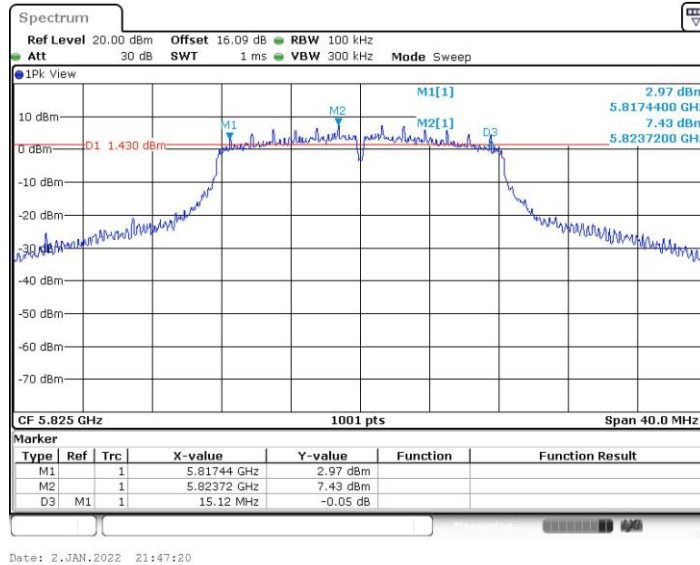


Test Graphs B4

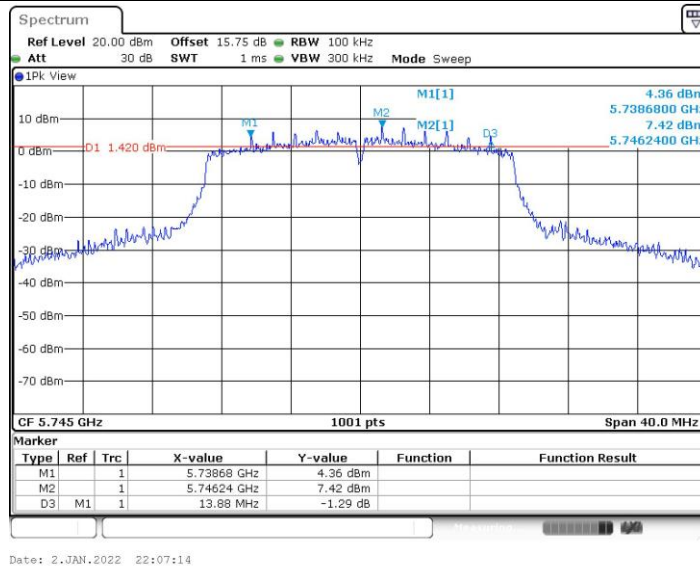




11A_Ant1_5825

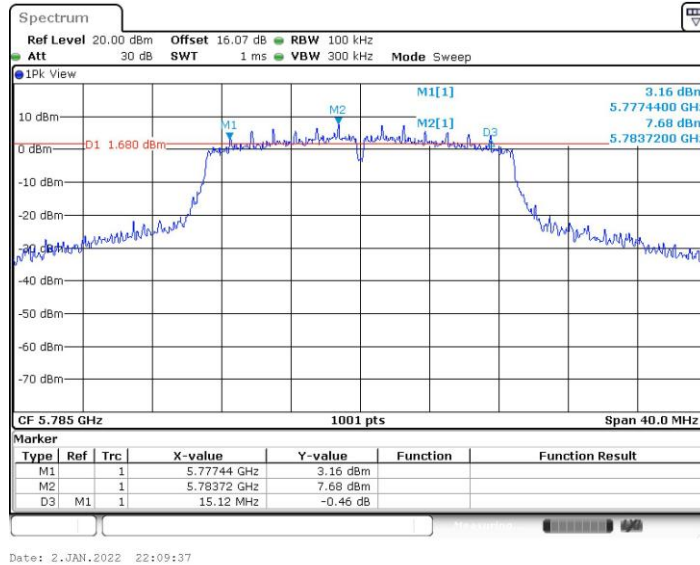


11N20SISO_Ant1_5745

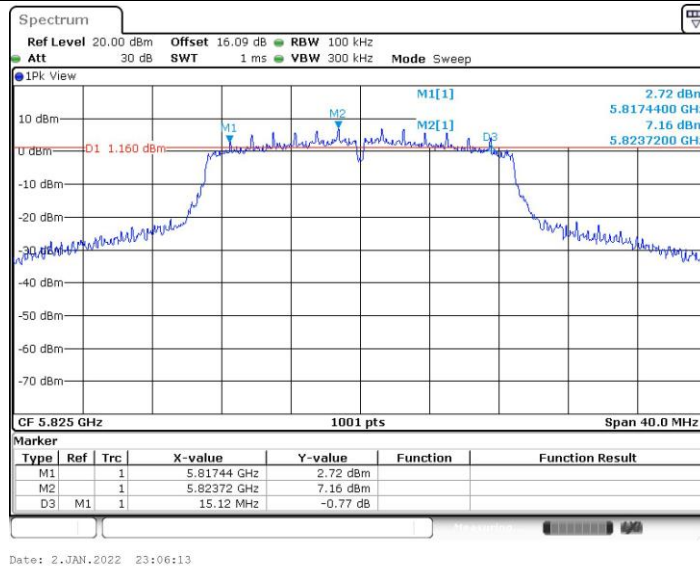


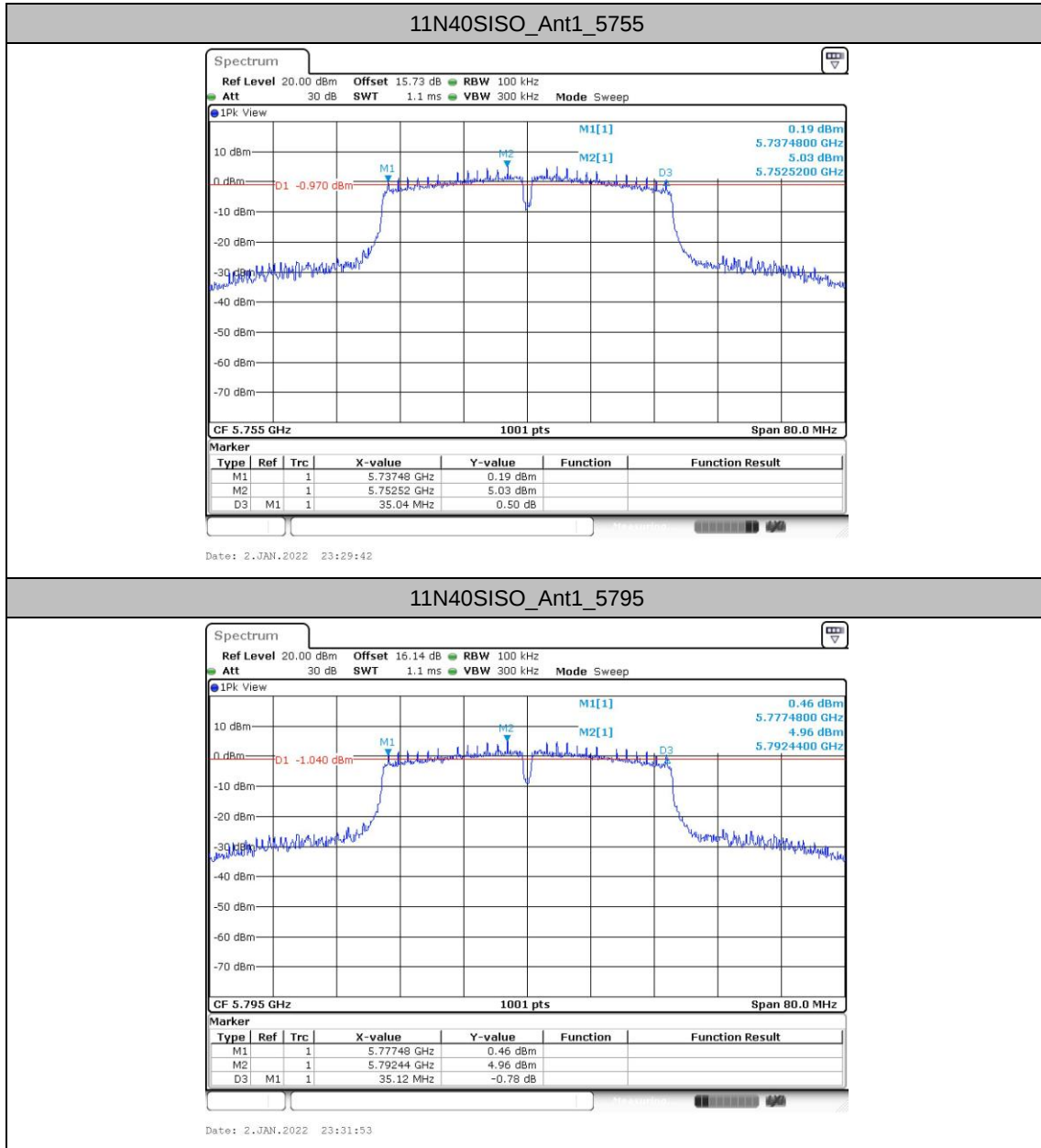


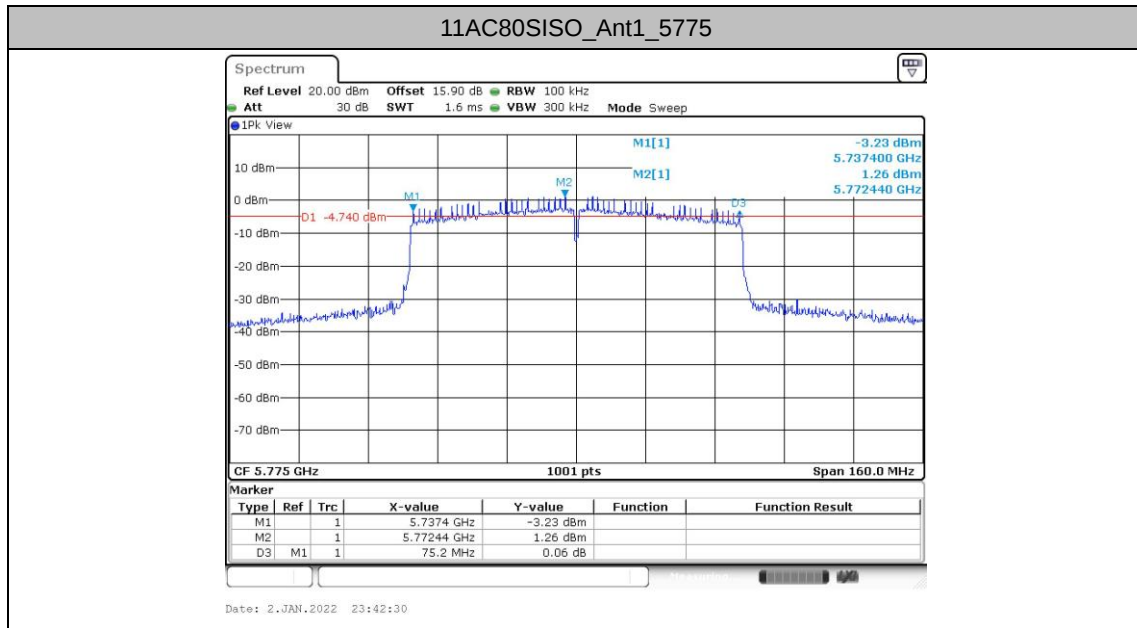
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825









Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	8.41	≤11.00	PASS
		5220	8.36	≤11.00	PASS
		5240	9.03	≤11.00	PASS
		5260	8.28	≤11.00	PASS
		5300	7.81	≤11.00	PASS
		5320	7.3	≤11.00	PASS
		5500	8.68	≤11.00	PASS
		5580	8.5	≤11.00	PASS
		5700	7.07	≤11.00	PASS
		5745	4.78	≤30.00	PASS
		5785	4.83	≤30.00	PASS
		5825	4.29	≤30.00	PASS
11N20SISO	Ant1	5180	7.44	≤11.00	PASS
		5220	7.32	≤11.00	PASS
		5240	7.88	≤11.00	PASS
		5260	7.31	≤11.00	PASS
		5300	6.78	≤11.00	PASS
		5320	6.08	≤11.00	PASS
		5500	7.73	≤11.00	PASS
		5580	7.52	≤11.00	PASS
		5700	5.91	≤11.00	PASS
		5745	4.2	≤30.00	PASS
		5785	4.33	≤30.00	PASS
		5825	3.79	≤30.00	PASS
11N40SISO	Ant1	5190	2.76	≤11.00	PASS
		5230	4.6	≤11.00	PASS
		5270	4.17	≤11.00	PASS
		5310	0.49	≤11.00	PASS
		5510	1.98	≤11.00	PASS
		5550	4.17	≤11.00	PASS
		5670	4.37	≤11.00	PASS
		5755	1.54	≤30.00	PASS
		5795	1.3	≤30.00	PASS
11AC80SISO	Ant1	5210	-2.28	≤11.00	PASS
		5290	-2.43	≤11.00	PASS



		5530	-5.7	≤11.00	PASS
		5775	-2.53	≤30.00	PASS

Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



Test Graphs

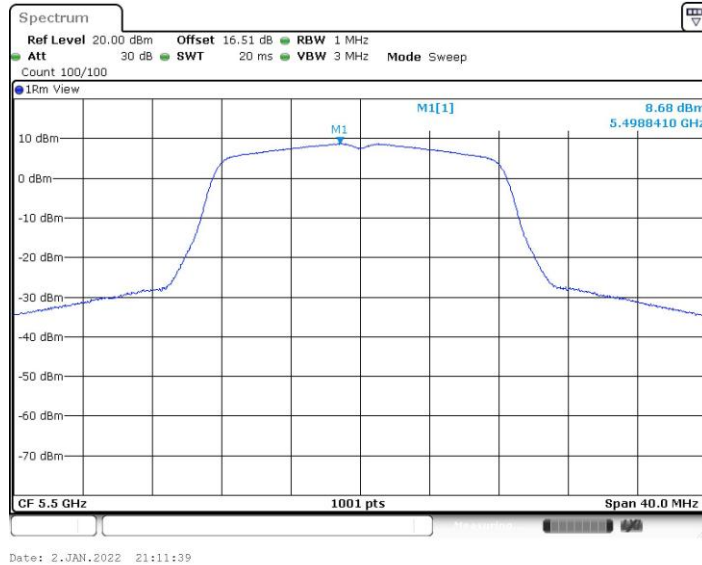




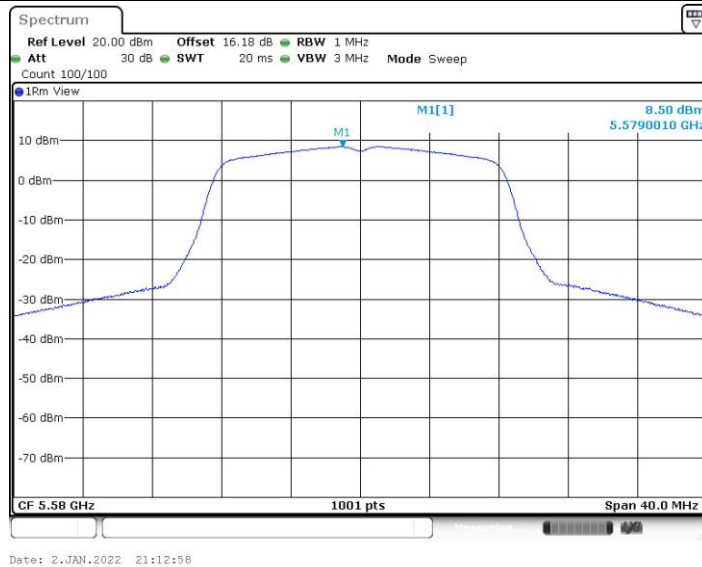




11A_Ant1_5500

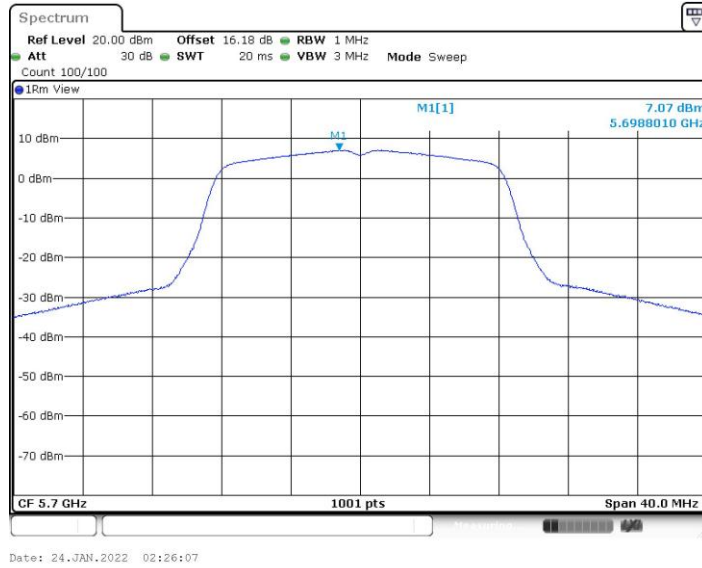


11A_Ant1_5580

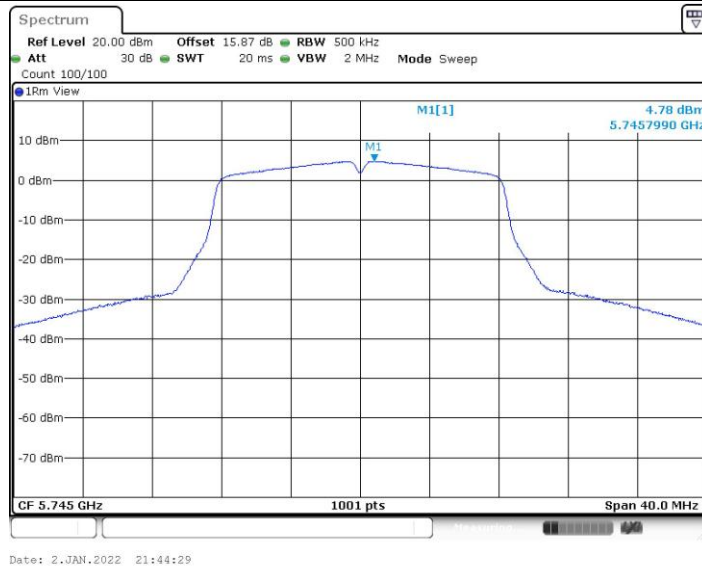




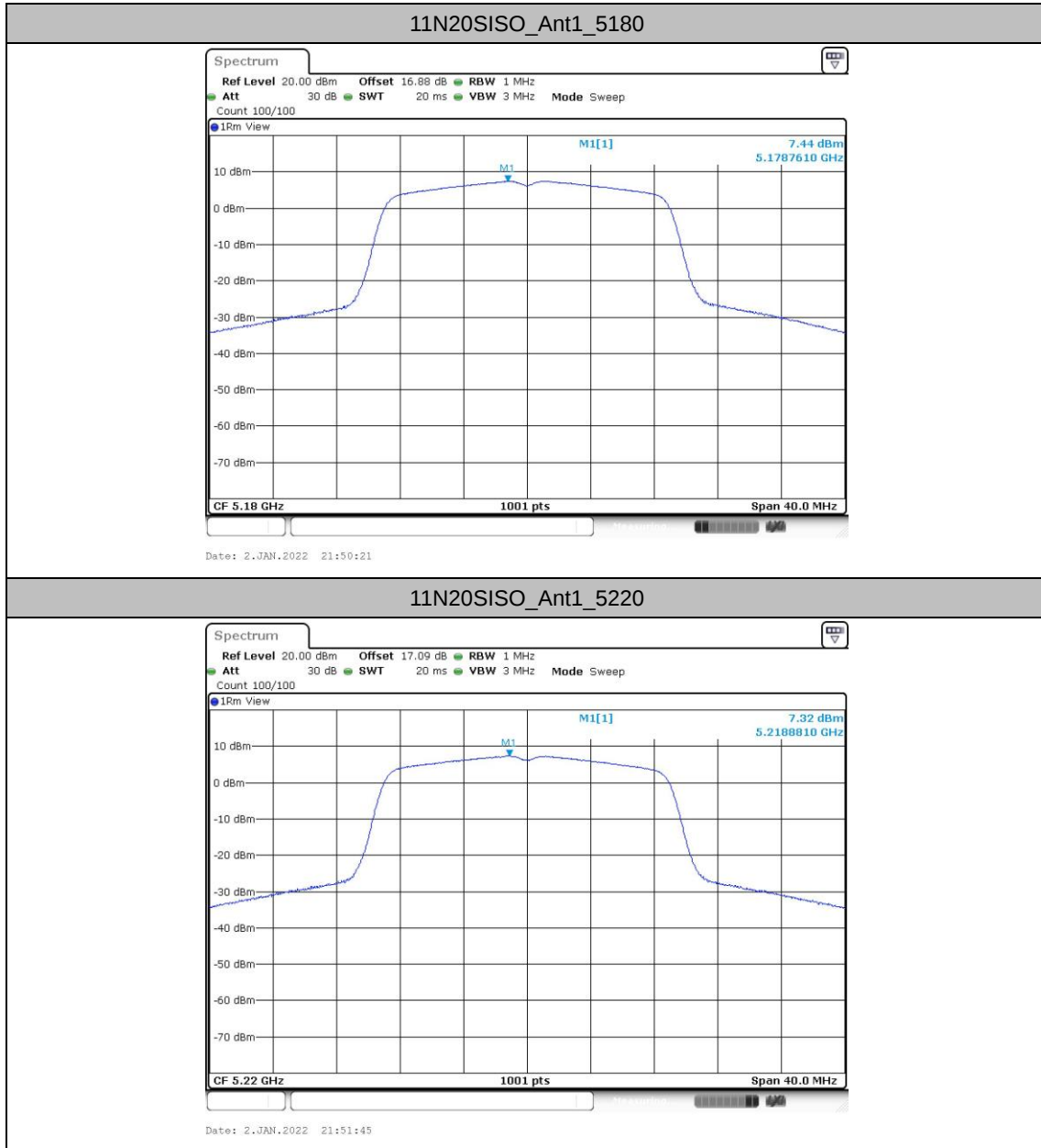
11A_Ant1_5700

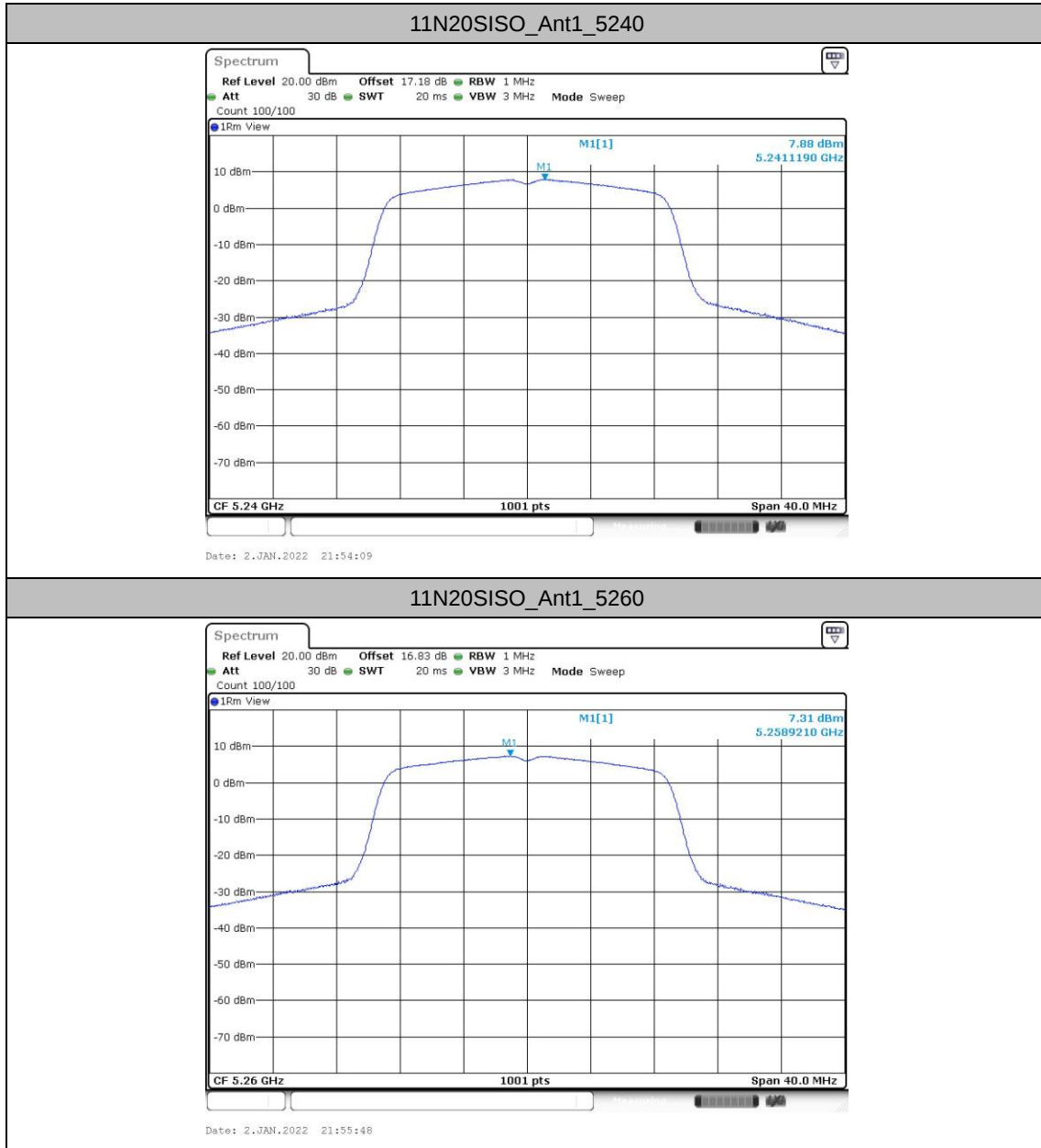


11A_Ant1_5745

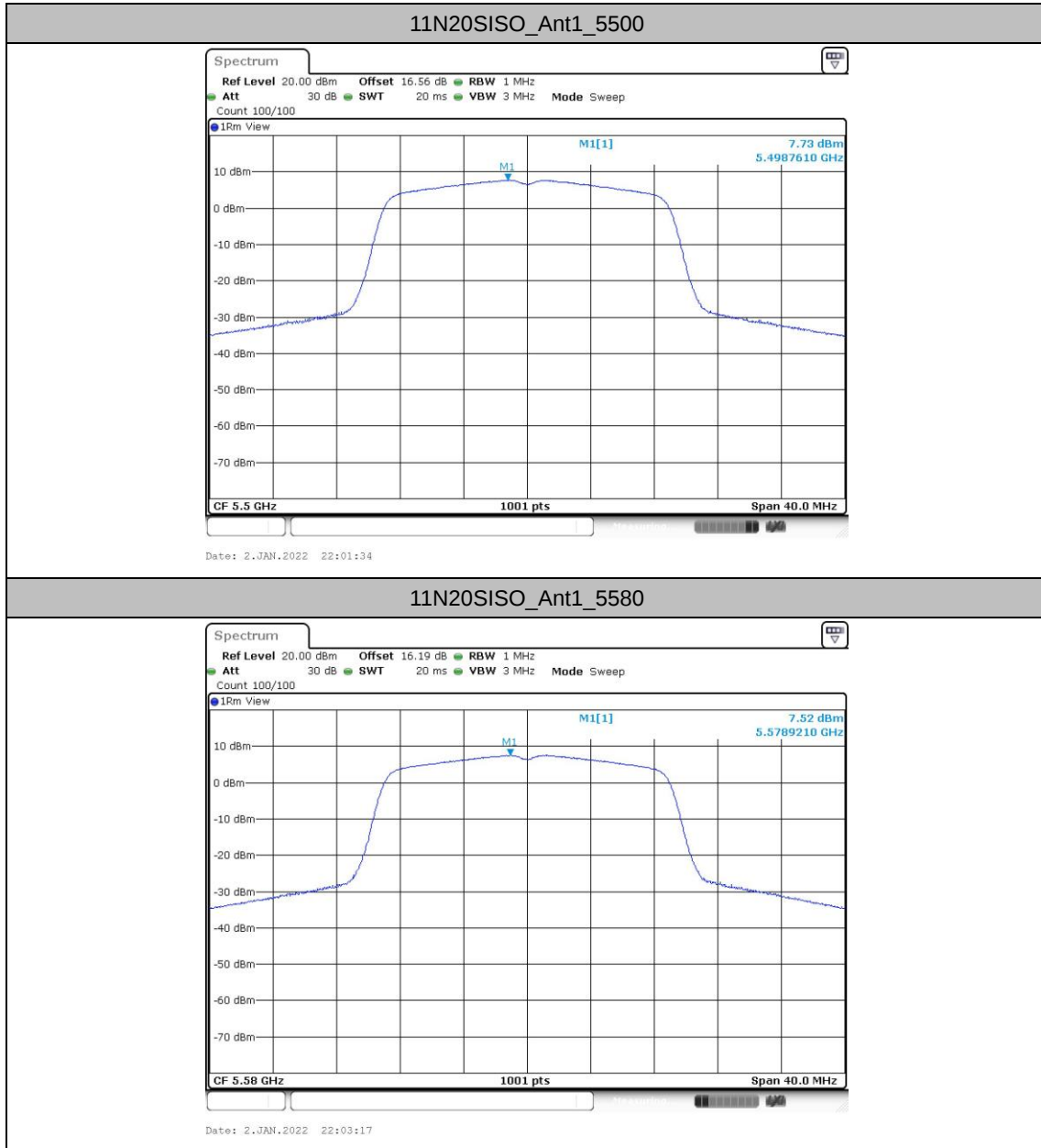




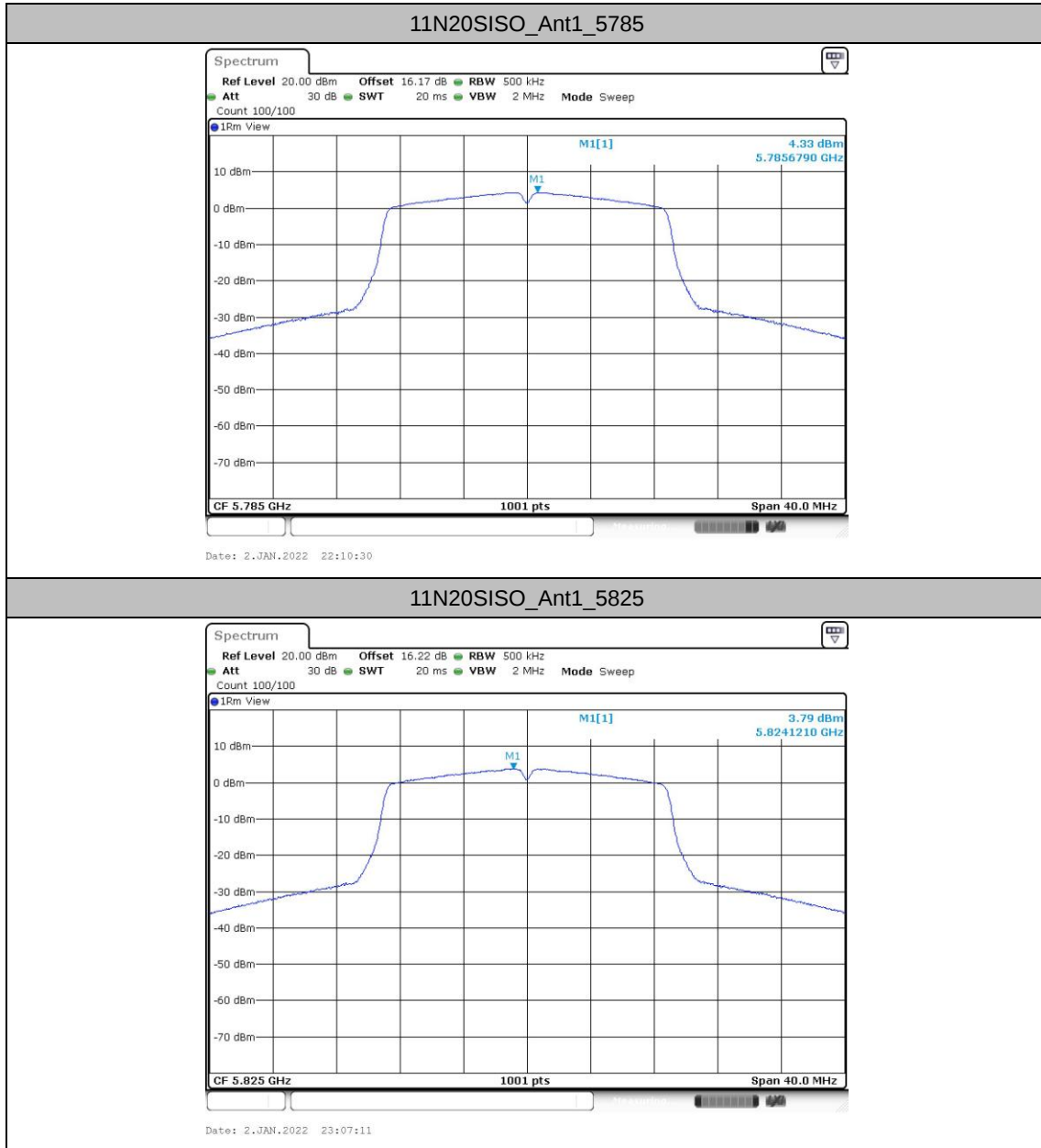




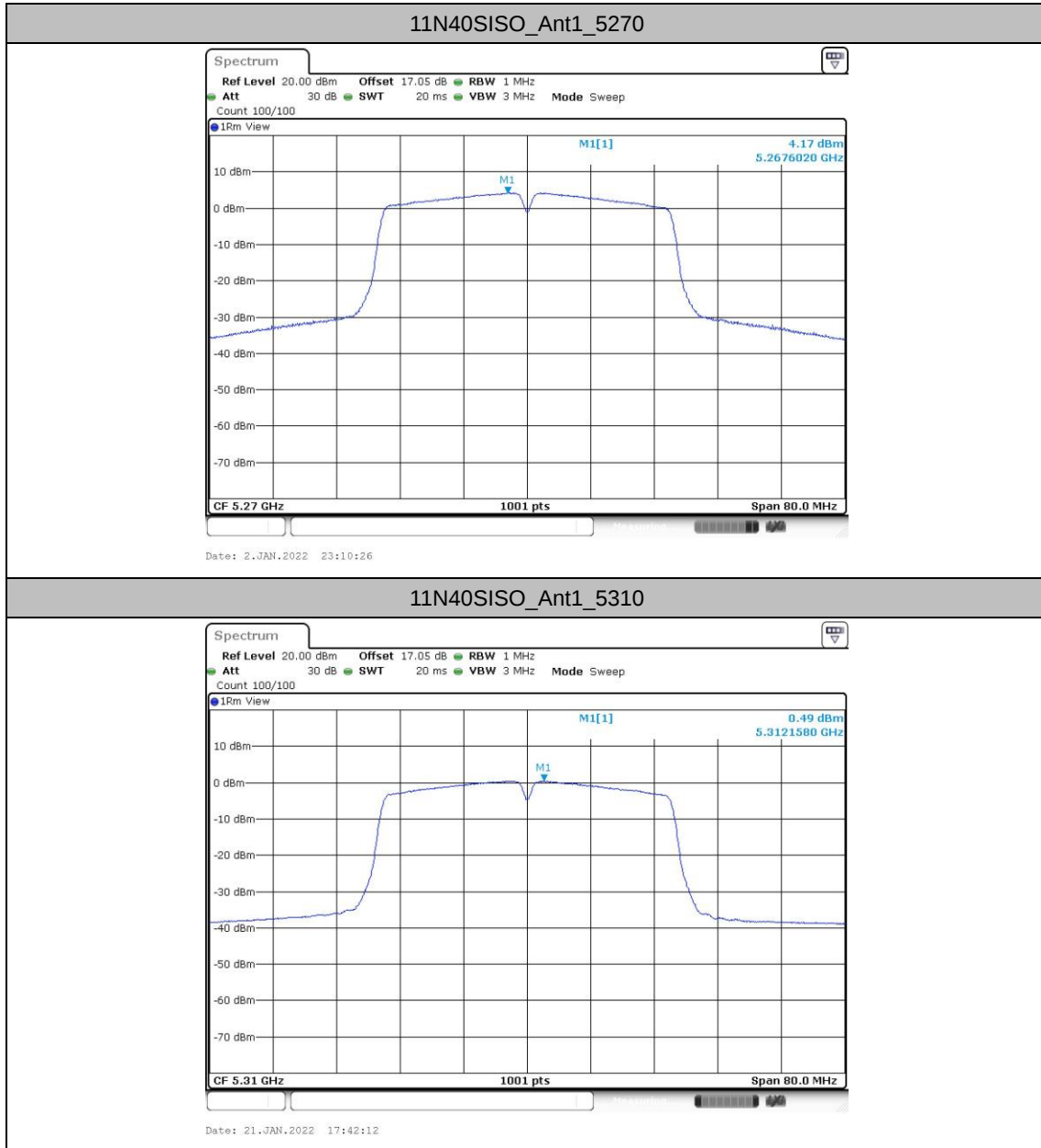








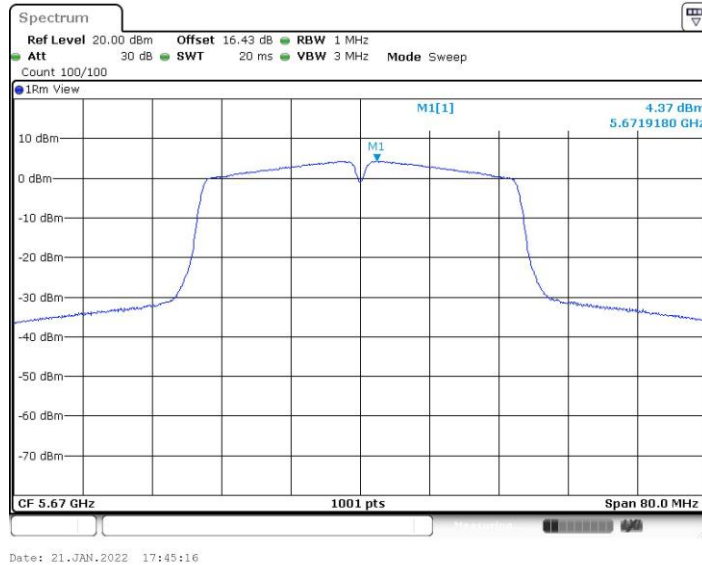






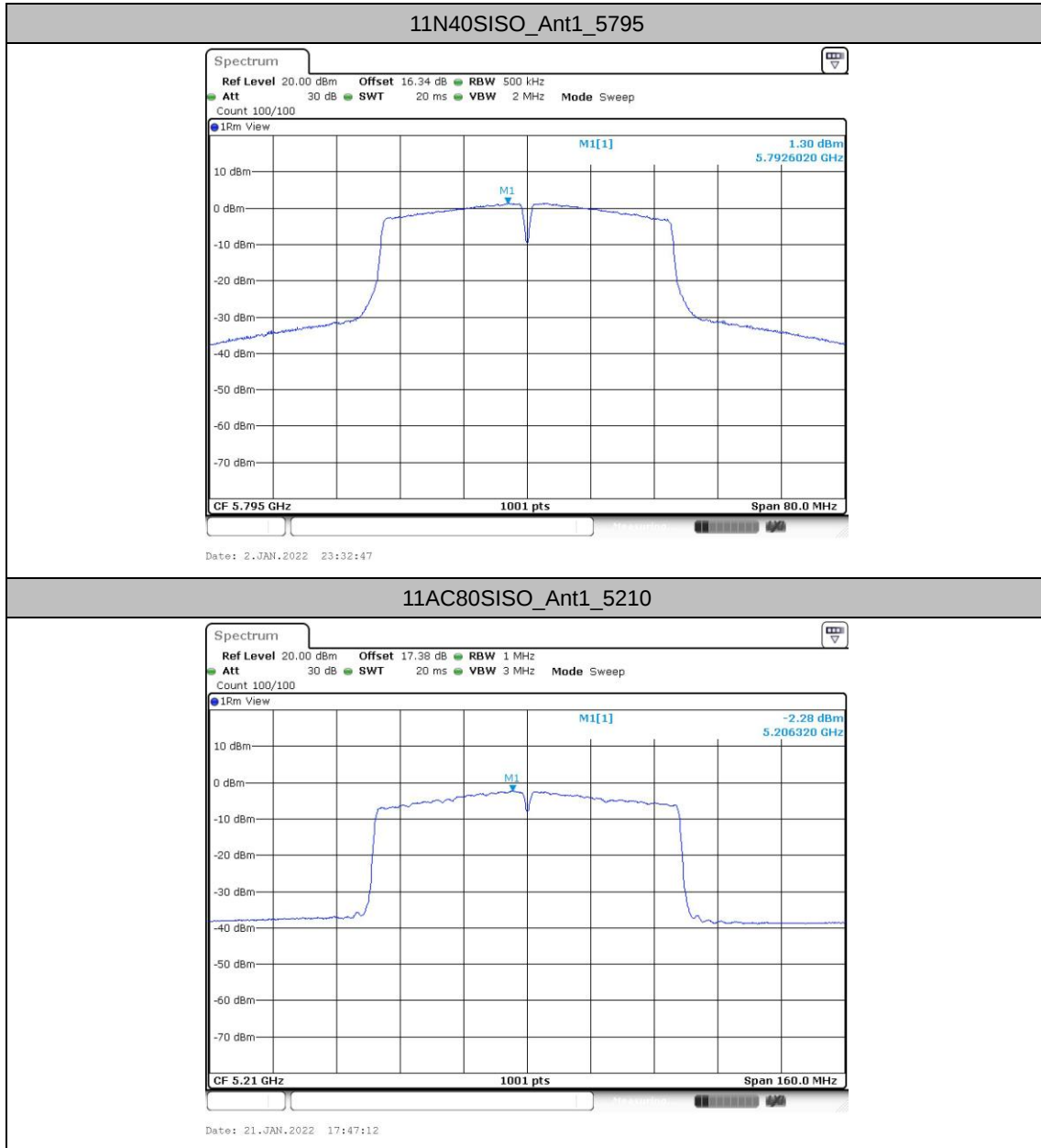


11N40SISO_Ant1_5670

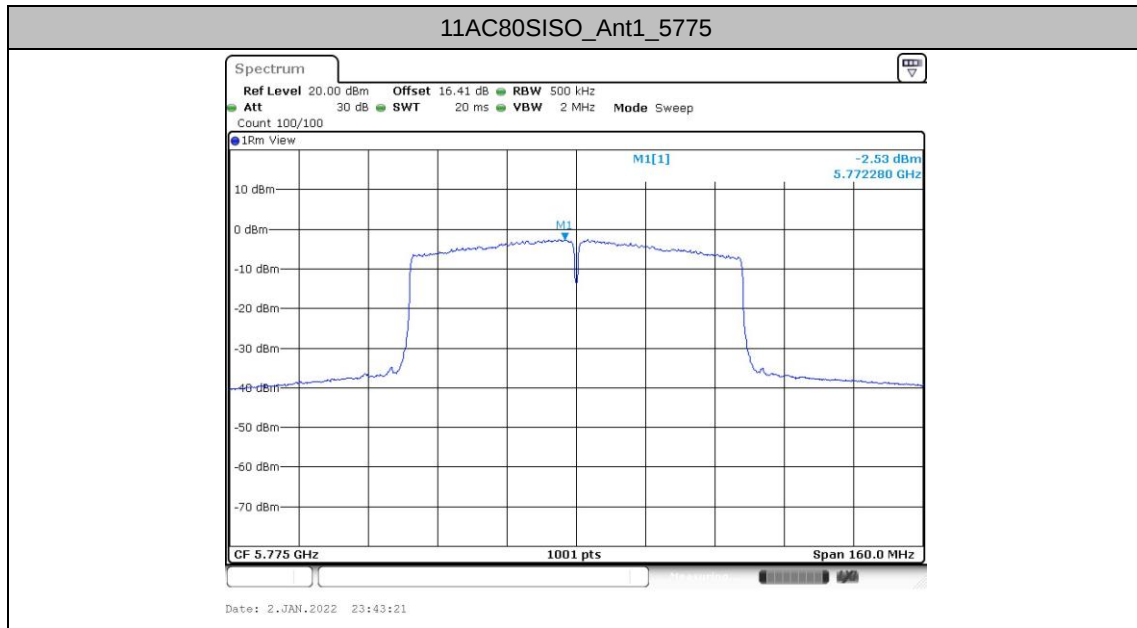


11N40SISO_Ant1_5755



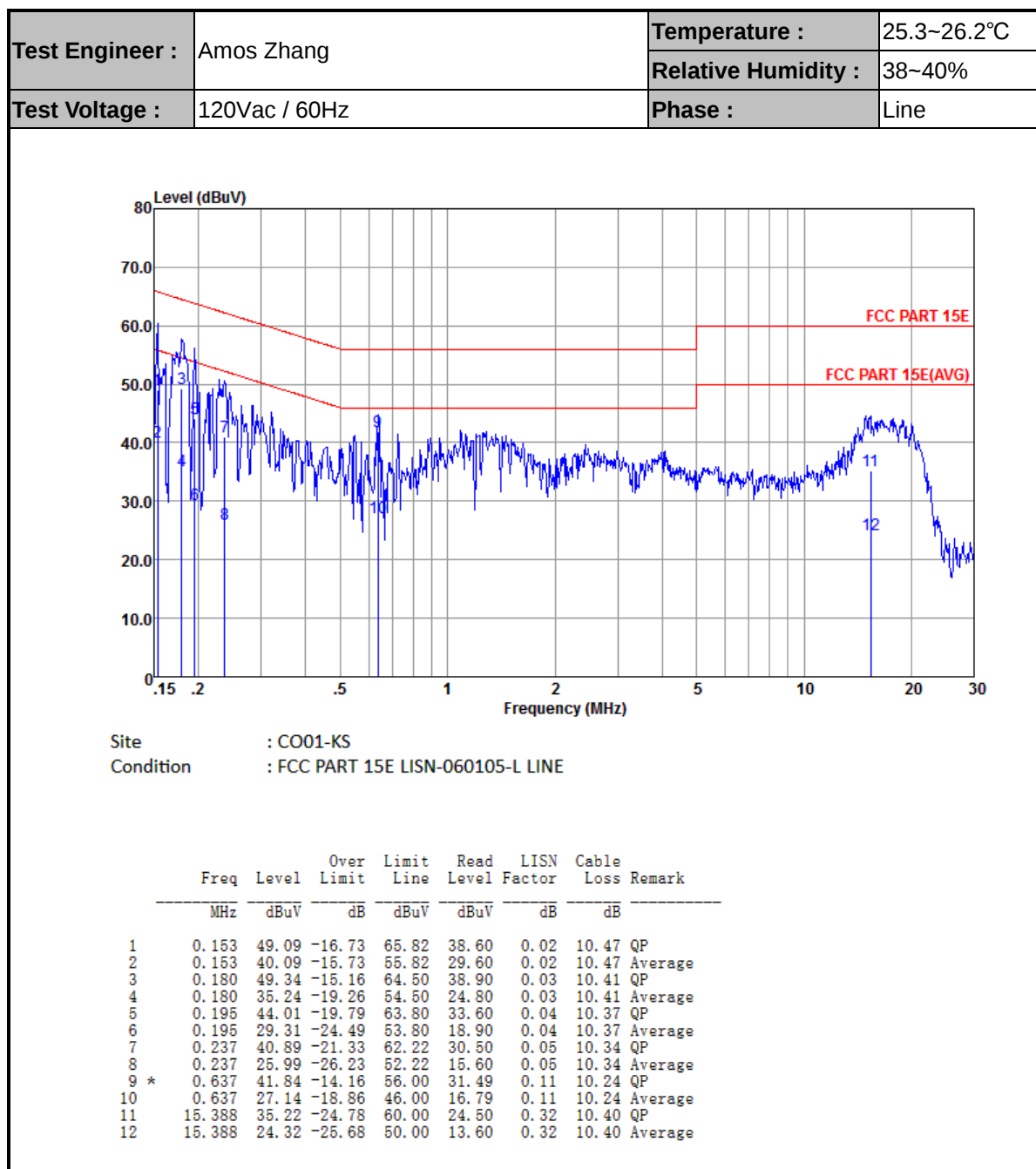


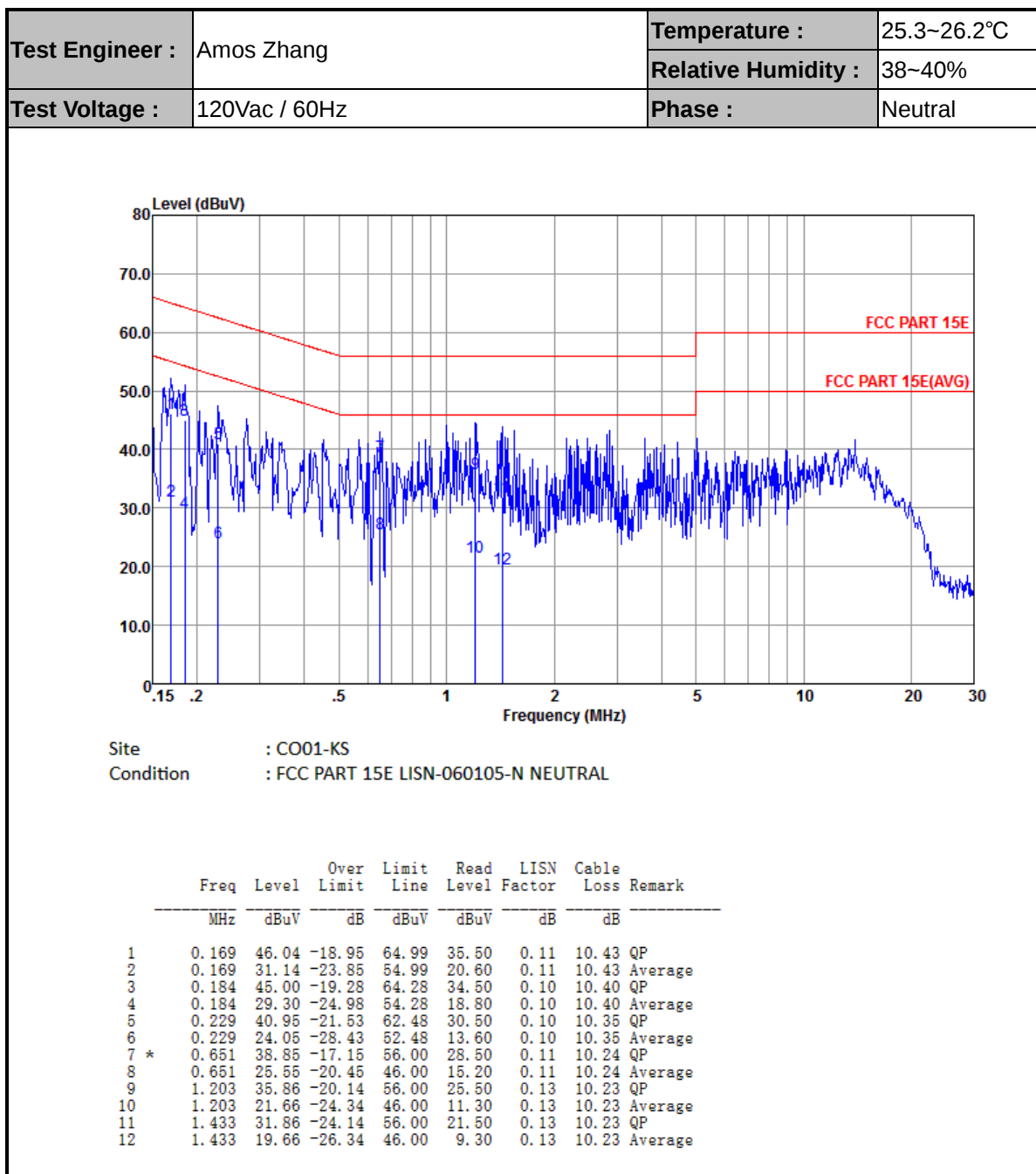






Appendix B. AC Conducted Emission Test Results





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

UNII-1 - 5150~5250MHz

WIFI 802.11ac VHT80 (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)
802.11ac VHT80 CH 42 5210MHz		5147.68	56.86	-17.14	74	47.96	35.03	10.6	36.73	100	76	P	H
	!	5149.28	48.27	-5.73	54	39.37	35.03	10.6	36.73	100	76	A	H
	*	5212	99.6	-	-	90.5	35.09	10.67	36.66	100	76	P	H
		5212	92.06	-	-	82.96	35.09	10.67	36.66	100	76	A	H
		5362.38	51.02	-22.98	74	41.53	35.24	10.76	36.51	100	76	P	H
		5355.18	42.73	-11.27	54	33.28	35.22	10.75	36.52	100	76	A	H
		5149.76	57.95	-16.05	74	49.05	35.03	10.6	36.73	100	301	P	V
	!	5149.6	50.38	-3.62	54	41.48	35.03	10.6	36.73	100	301	A	V
	*	5206	102.22	-	-	93.16	35.08	10.66	36.68	100	301	P	V
		5206	94.14	-	-	85.08	35.08	10.66	36.68	100	301	A	V
		5357.88	52.85	-21.15	74	43.4	35.22	10.75	36.52	100	301	P	V
		5380.2	43.81	-10.19	54	34.27	35.26	10.77	36.49	100	301	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 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)
802.11ac VHT80 CH 42 5210MHz		10421	46.17	-22.13	68.3	59.31	38.34	15.51	66.99	300	0	P	H
		10421	46.67	-21.63	68.3	59.81	38.34	15.51	66.99	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2A - 5250~5350MHz

WIFI 802.11n HT40 (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 HT40 CH 62 5310MHz		5147.2	51.63	-22.37	74	42.73	35.03	10.6	36.73	100	121	P	H
		5101.76	41.96	-12.04	54	33.2	34.98	10.56	36.78	100	121	A	H
	*	5308	103.91	-	-	94.57	35.18	10.73	36.57	100	121	P	H
		5308	96.63	-	-	87.29	35.18	10.73	36.57	100	121	A	H
		5350.1	63.77	-10.23	74	54.32	35.22	10.75	36.52	100	121	P	H
		5350.9	47.1	-6.9	54	37.65	35.22	10.75	36.52	100	121	A	H
		5148.32	52.82	-21.18	74	43.92	35.03	10.6	36.73	100	303	P	V
		5144.8	42.87	-11.13	54	33.97	35.03	10.6	36.73	100	303	A	V
	*	5314	107.19	-	-	97.83	35.19	10.73	36.56	100	303	P	V
		5314	99.67	-	-	90.31	35.19	10.73	36.56	100	303	A	V
		5350.9	66.2	-7.8	74	56.75	35.22	10.75	36.52	100	303	P	V
	!	5350.8	50.55	-3.45	54	41.1	35.22	10.75	36.52	100	303	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2A 5250~5350MHz

WIFI 802.11n HT40 (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 HT40 CH 62 5310MHz		10619	45.28	-28.72	74	58.02	38.41	15.69	66.84	300	0	P	H
		10619	46.01	-27.99	74	58.75	38.41	15.69	66.84	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII-2C - 5470~5725MHz

WIFI 802.11a (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)
802.11a CH 140 5700MHz	!	5726.2	63.54	-4.76	68.3	53.31	35.65	11.18	36.6	207	284	P	H
	*	5704	109.66	-	-	99.46	35.62	11.16	36.58	207	284	P	H
		5704	102.08	-	-	91.88	35.62	11.16	36.58	207	284	A	H
	!	5725	65.27	-3.03	68.3	55.04	35.65	11.18	36.6	231	67	P	V
	*	5698	112.2	-	-	102.04	35.59	11.13	36.56	231	67	P	V
		5698	104.88	-	-	94.72	35.59	11.13	36.56	231	67	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-2C - 5470~5725MHz

WIFI 802.11a (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)
802.11a CH 140 5700MHz		11400	46.74	-27.26	74	58.26	38.67	16.29	66.48	300	0	P	H
		11400	46.57	-27.43	74	58.09	38.67	16.29	66.48	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11a (LF @ 3m)

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)
802.11a LF		30	21.58	-18.42	40	28.22	24.8	0.76	32.2	-	-	P	H
		106.63	22.43	-21.07	43.5	36.49	16.6	1.53	32.19	-	-	P	H
		189.08	23.64	-19.86	43.5	39.12	14.6	2.02	32.1	-	-	P	H
		217.21	24.85	-21.15	46	39.93	14.96	2.09	32.13	-	-	P	H
		335.55	23.24	-22.76	46	32.88	19.83	2.7	32.17	-	-	P	H
		555.74	24.73	-21.27	46	28.03	25.76	3.24	32.3	-	-	P	H
		30	24.79	-15.21	40	31.43	24.8	0.76	32.2	-	-	P	V
		43.58	21.69	-18.31	40	35.72	17.2	0.93	32.16	-	-	P	V
		106.63	20.48	-23.02	43.5	34.54	16.6	1.53	32.19	-	-	P	V
		151.25	20.67	-22.83	43.5	33.97	17	1.8	32.1	-	-	P	V
		215.27	21.16	-22.34	43.5	36.4	14.8	2.09	32.13	-	-	P	V
		260.86	18.54	-27.46	46	28.53	20	2.19	32.18	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

UNII-3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

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)
802.11a CH 149 5745MHz		5629.6	53.71	-14.59	68.3	43.67	35.48	11.05	36.49	111	78	P	H
		5694	55.65	-45.23	100.88	45.49	35.59	11.13	36.56	111	78	P	H
		5716.8	62.4	-47.61	110.01	52.2	35.62	11.16	36.58	111	78	P	H
		5724	68.04	-51.98	120.02	57.81	35.65	11.18	36.6	111	78	P	H
		5746	110.85	-	-	100.58	35.68	11.21	36.62	111	78	P	H
		5746	103.19	-	-	92.92	35.68	11.21	36.62	111	78	A	H
		5646	57.26	-11.04	68.3	47.19	35.5	11.08	36.51	100	295	P	V
		5684.8	59.08	-35.01	94.09	48.92	35.59	11.13	36.56	100	295	P	V



		5719.2	65.32	-45.36	110.68	55.11	35.65	11.16	36.6	100	295	P	V
		5724.4	75.28	-45.65	120.93	65.05	35.65	11.18	36.6	100	295	P	V
		5740	113.12	-	-	102.88	35.68	11.18	36.62	100	295	P	V
		5740	105.81	-	-	95.57	35.68	11.18	36.62	100	295	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11a (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)
802.11a		11488	46.86	-27.14	74	58.3	38.69	16.35	66.48	300	0	P	H
CH 149		11488	46.03	-27.97	74	57.47	38.69	16.35	66.48	100	0	P	V
5745MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11n HT40 (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 HT40 CH 159 5795MHz		5618.4	53.68	-14.62	68.3	43.66	35.48	11.03	36.49	106	76	P	H
		5665.2	54.91	-24.67	79.58	44.8	35.53	11.11	36.53	106	76	P	H
		5709.6	57.07	-50.92	107.99	46.87	35.62	11.16	36.58	106	76	P	H
		5723.2	54.4	-63.8	118.2	44.17	35.65	11.18	36.6	106	76	P	H
		5852.4	66.04	-50.79	116.83	55.56	35.87	11.33	36.72	106	76	P	H
		5857.6	57.88	-52.29	110.17	47.38	35.9	11.34	36.74	106	76	P	H
		5883.2	54.55	-44.66	99.21	44.06	35.89	11.36	36.76	106	76	P	H
		5951.6	52.41	-15.89	68.3	41.95	35.86	11.43	36.83	106	76	P	H
		5794	108.98	-	-	98.61	35.78	11.26	36.67	106	76	P	H
		5794	100.13	-	-	89.76	35.78	11.26	36.67	106	76	A	H



		5650	55.94	-12.36	68.3	45.86	35.53	11.08	36.53	101	328	P	V
		5693.6	58.06	-42.52	100.58	47.9	35.59	11.13	36.56	101	328	P	V
		5718.4	58.07	-52.38	110.45	47.86	35.65	11.16	36.6	101	328	P	V
		5722.8	58	-59.28	117.28	47.77	35.65	11.18	36.6	101	328	P	V
		5850	66	-56.3	122.3	55.52	35.87	11.33	36.72	101	328	P	V
		5857.2	61.09	-49.19	110.28	50.59	35.9	11.34	36.74	101	328	P	V
		5881.2	55.39	-45.3	100.69	44.9	35.89	11.36	36.76	101	328	P	V
		5926.4	53.89	-14.41	68.3	43.43	35.87	11.4	36.81	101	328	P	V
		5794	110.67	-	-	100.3	35.78	11.26	36.67	101	328	P	V
		5794	102.53	-	-	92.16	35.78	11.26	36.67	101	328	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11n HT40 (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		11587	45.58	-28.42	74	56.82	38.75	16.41	66.4	300	0	P	H
HT40		11587	45.41	-28.59	74	56.65	38.75	16.41	66.4	100	0	P	V
CH 159													
5795MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

UNII-3 5725~5850MHz

WIFI 802.11ac VHT80 (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)
802.11ac		5646	57.11	-11.19	68.3	47.04	35.5	11.08	36.51	100	80	P	H
VHT80		5696.4	68.94	-33.71	102.65	58.78	35.59	11.13	36.56	100	80	P	H
CH 155		5717.2	70.6	-39.52	110.12	60.4	35.62	11.16	36.58	100	80	P	H
5775MHz		5723.2	71.41	-46.79	118.2	61.18	35.65	11.18	36.6	100	80	P	H



	5854.4	68.67	-43.6	112.27	58.18	35.9	11.33	36.74	100	80	P	H
	5869.2	68.87	-38.05	106.92	58.37	35.9	11.34	36.74	100	80	P	H
	5875.6	63.01	-41.84	104.85	52.52	35.89	11.36	36.76	100	80	P	H
	5926.4	53.03	-15.27	68.3	42.57	35.87	11.4	36.81	100	80	P	H
	5776	104.28	-	-	93.94	35.75	11.24	36.65	100	80	P	H
	5776	96.32	-	-	85.98	35.75	11.24	36.65	100	80	A	H
	5649.6	59.74	-8.56	68.3	49.66	35.53	11.08	36.53	109	328	P	V
	5698.4	70.94	-33.18	104.12	60.78	35.59	11.13	36.56	109	328	P	V
	5719.2	76.06	-34.62	110.68	65.85	35.65	11.16	36.6	109	328	P	V
	5722.4	76.81	-39.56	116.37	66.58	35.65	11.18	36.6	109	328	P	V
	5854.8	70.98	-40.38	111.36	60.48	35.9	11.34	36.74	109	328	P	V
	5855.2	70.98	-39.86	110.84	60.48	35.9	11.34	36.74	109	328	P	V
	5878	62.21	-40.86	103.07	51.72	35.89	11.36	36.76	109	328	P	V
	5943.2	54.22	-14.08	68.3	43.77	35.86	11.42	36.83	109	328	P	V
	5770	108.26	-	-	97.92	35.75	11.24	36.65	109	328	P	V
	5770	99.92	-	-	89.58	35.75	11.24	36.65	109	328	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											

UNII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

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)
802.11ac VHT80 CH 155 5775MHz		11554	46.54	-27.46	74	57.85	38.73	16.39	66.43	300	0	P	H
		11554	45.01	-28.99	74	56.32	38.73	16.39	66.43	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		30	22.15	-17.85	40	28.79	24.8	0.76	32.2	-	-	P	H
		112.45	22.1	-21.4	43.5	35.71	17	1.57	32.18	-	-	P	H
		190.05	23.26	-20.24	43.5	38.73	14.6	2.03	32.1	-	-	P	H
		217.21	24.62	-21.38	46	39.7	14.96	2.09	32.13	-	-	P	H
		747.8	29.69	-16.31	46	29.97	27.96	4.06	32.3	-	-	P	H
		873.9	29.93	-16.07	46	28.68	29.18	4.37	32.3	-	-	P	H
		30	25.32	-14.68	40	31.96	24.8	0.76	32.2	-	-	P	V
		46.49	21.74	-18.26	40	37.08	15.9	0.96	32.2	-	-	P	V
		106.63	22.13	-21.37	43.5	36.19	16.6	1.53	32.19	-	-	P	V
		154.16	20.82	-22.68	43.5	34.4	16.7	1.82	32.1	-	-	P	V
		217.21	21.27	-24.73	46	36.35	14.96	2.09	32.13	-	-	P	V
		462.62	23.07	-22.93	46	29.06	23.12	3.14	32.25	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Simultaneous transmission>

Band 2C - 5470~5725MHz

WIFI 802.11a CH140+LTE 48B BW=10M+10M (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.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 140 5700MHz		5727.56	63.56	-4.74	68.3	53.33	35.65	11.18	36.6	103	66	P	H
		5698	110.08	-	-	99.92	35.59	11.13	36.56	103	66	P	H
		5698	101.91	-	-	91.75	35.59	11.13	36.56	103	66	A	H
		5731.08	65.08	-3.22	68.3	54.85	35.65	11.18	36.6	100	66	P	V
		5704	109.58	-	-	99.38	35.62	11.16	36.58	100	66	P	V
		5704	101.8	-	-	91.6	35.62	11.16	36.58	100	66	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 2C 5470~5725MHz

WIFI 802.11a CH140+LTE 48B BW=10M+10M (Harmonic @ 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.
		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 140 5700MHz		11400	46.1	-27.9	74	57.62	38.67	16.29	66.48	300	0	P	H
		11400	45.8	-28.2	74	57.32	38.67	16.29	66.48	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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		(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:

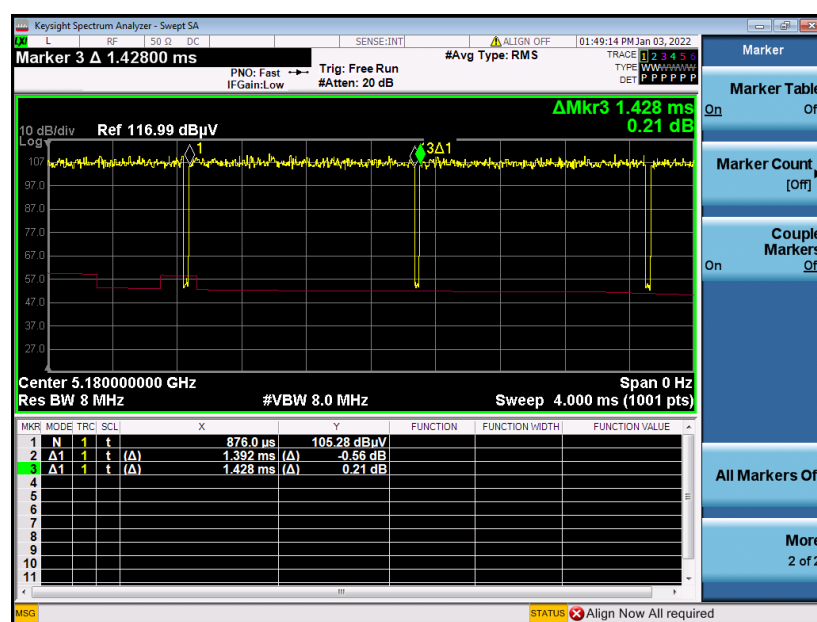
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

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

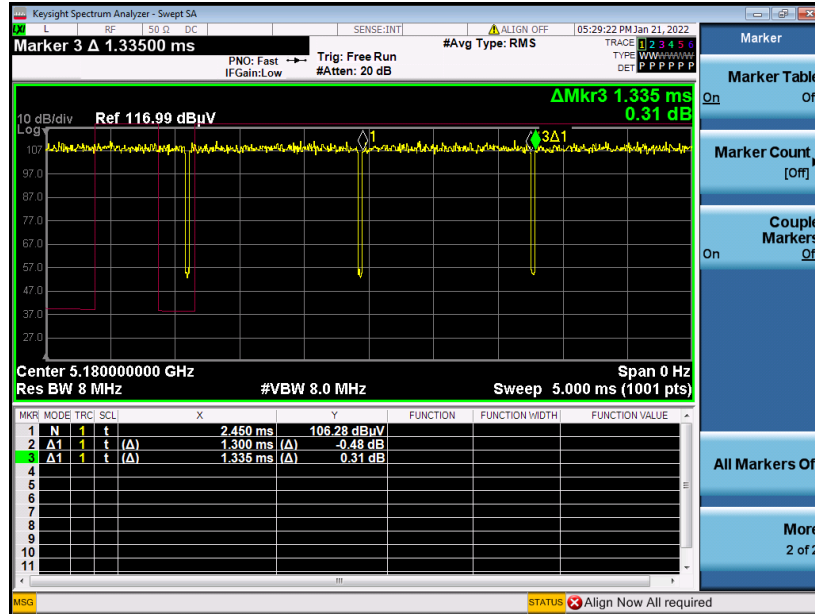
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	97.48	1.392	0.718	0.75KHz
802.11n HT20	97.38	1.3	0.769	0.82KHz
802.11n HT40	94.74	0.648	1.543	1.6KHz
802.11ac VHT80	90.22	0.323	3.096	3.3KHz

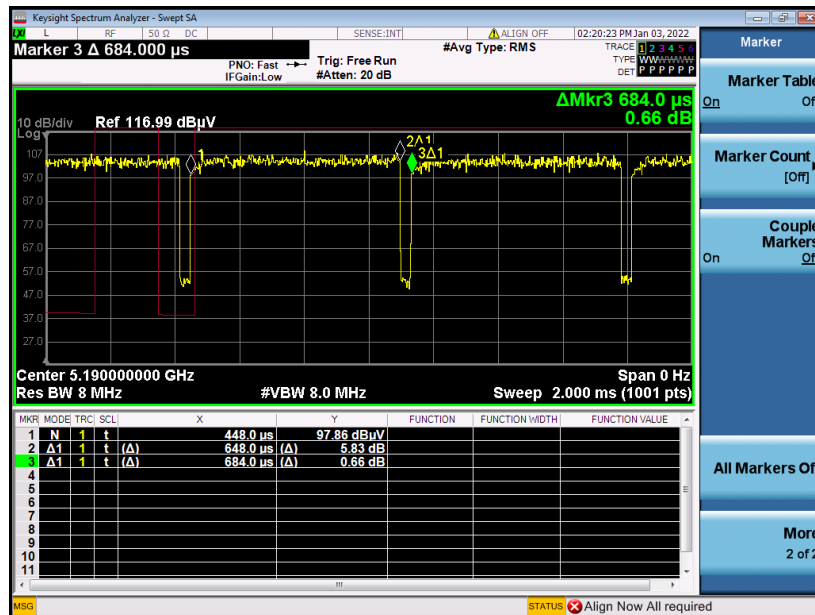
802.11a



802.11n HT20



802.11n HT40





802.11ac VHT80

