

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

802.11n20 Modulation 5180MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	948.59	37.87	Horizontal	46.00	8.13	QP	26.5	Pass
30-1000	946.97	35.16	Vertical	46.00	10.84	QP	26.5	Pass
1000-40000	6148	55.15	Horizontal	68.20	16.65	PK	6.7	Pass
1000-40000	6665	51.71	Vertical	68.20	16.49	PK	8.6	Pass

802.11n20 Modulation 5200MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6874	51.84	Horizontal	68.20	16.36	PK	8.7	Pass
1000-40000	6977	53.69	Vertical	68.20	14.51	PK	8.7	Pass

802.11n20 Modulation 5240MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6692.5	51.60	Horizontal	68.20	16.6	PK	5.1	Pass
1000-40000	6947.5	51.73	Vertical	68.20	16.47	PK	0.6	Pass

802.11n20 Modulation 5260MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6516	51.96	Horizontal	68.20	16.24	PK	8.0	Pass
1000-40000	6749	51.25	Vertical	68.20	16.95	PK	8.2	Pass

802.11n20 Modulation 5280MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	3272	45.43	Horizontal	68.20	22.77	PK	-0.6	Pass
1000-40000	1648	52.07	Vertical	68.20	16.13	PK	8.7	Pass

.11n20 Modulation 5320MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6818	51.56	Horizontal	68.20	16.64	PK	4.4	Pass
1000-40000	6684.5	51.18	Vertical	68.20	17.02	PK	8.4	Pass

11n20 Modulation 5745MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6619	51.33	Horizontal	68.20	16.87	PK	0.4	Pass
1000-40000	6932.5	51.79	Vertical	68.20	16.41	PK	8.7	Pass

11n20 Modulation 5785MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6674	52.16	Horizontal	68.20	16.04	PK	0.6	Pass
1000-40000	6606	52.19	Vertical	68.20	16.01	PK	7.9	Pass

11n20 Modulation 5825MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6943	52.76	Horizontal	68.20	15.44	PK	1.5	Pass
1000-40000	6471.5	52.27	Vertical	68.20	15.93	PK	7.8	Pass

11n40 Modulation 5190MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6601	52.65	Horizontal	68.20	15.55	PK	-0.7	Pass
1000-40000	6597.5	51.63	Vertical	68.20	16.57	PK	8.2	Pass

11n40 Modulation 5230MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6965	52.76	Horizontal	68.20	15.44	PK	4.1	Pass
1000-40000	6554	52.08	Vertical	68.20	16.12	PK	8.3	Pass

11n40 Modulation 5270MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6992	52.03	Horizontal	68.20	16.17	PK	2.4	Pass
1000-40000	6700	51.65	Vertical	68.20	16.55	PK	8.1	Pass

11n40 Modulation 5310MHz Test Result

Frequency Range	Frequency	Emission Level	Polarization	Limit	Margin	Detector	Correct factor	Result
MHz	MHz	dBuV/m		dBuV/m	dB		(dB/m)	
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6678	52.05	Horizontal	68.20	16.15	PK	-0.2	Pass
1000-40000	6995	51.39	Vertical	68.20	16.81	PK	8.8	Pass

11n40 Modulation 5755MHz Test Result

Frequency Range MHz	Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Correct factor (dB/m)	Result
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	5710	53.66	Horizontal	68.20	14.54	PK	2.4	Pass
1000-40000	5709	54.47	Vertical	68.20	13.73	PK	4.8	Pass

11n40 Modulation 5795MHz Test Result

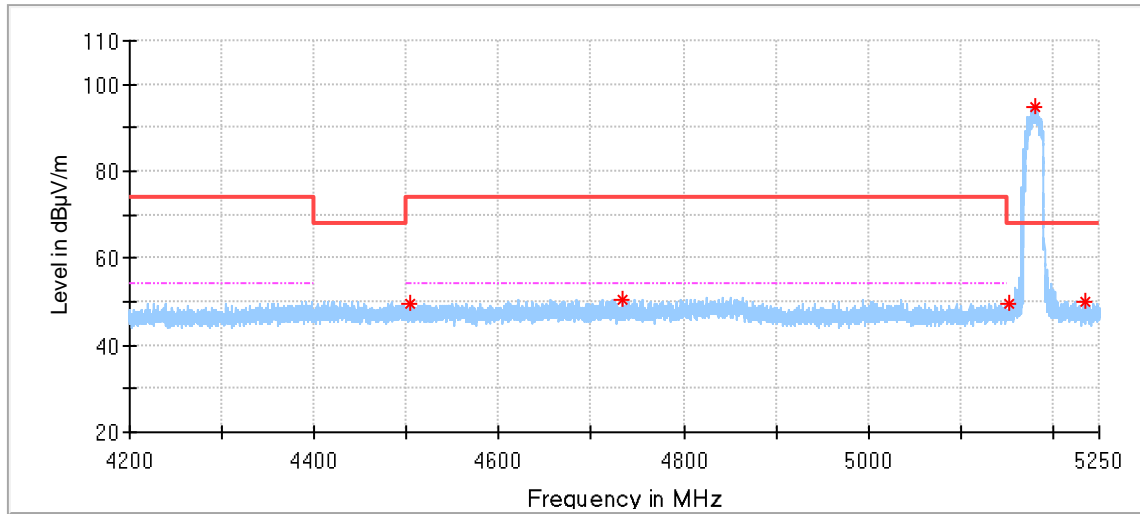
Frequency Range MHz	Frequency MHz	Emission Level dBuV/m	Polarization	Limit dBuV/m	Margin dB	Detector	Correct factor (dB/m)	Result
30-1000	--	--	Horizontal	--	--	QP		Pass
30-1000	--	--	Vertical	--	--	QP		Pass
1000-40000	6566	52.09	Horizontal	68.20	16.11	PK	3.8	Pass
1000-40000	6813.5	51.50	Vertical	68.20	16.70	PK	8.2	Pass

Remark:

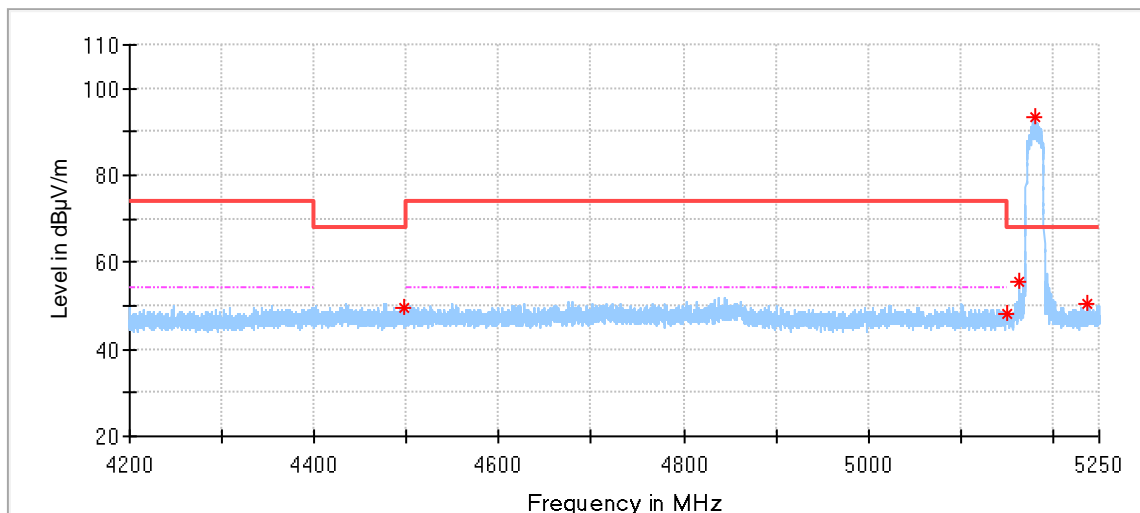
- (1) Corrected Amplitude = Read level + Corrector factor
 Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain.
 Below 1GHz: Corrector factor = Antenna Factor + Cable Loss.
 (The Reading Level is recorded by software which is not shown in the sheet)
- (2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.

Band edge test result as below:

11n-HT20 modulation 5180MHz

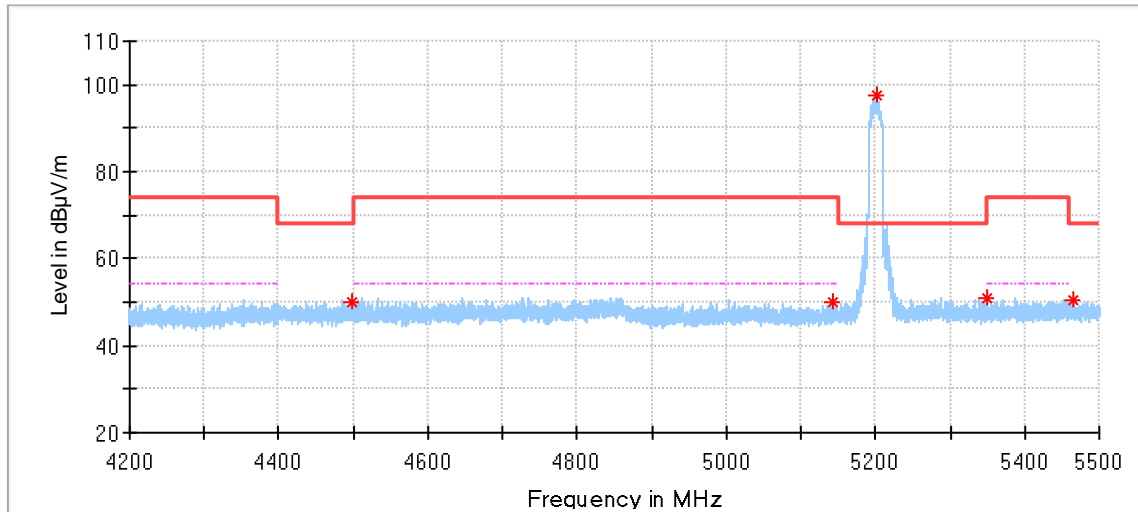


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4502.925000	49.74	74.00	24.26	150.0	H	170.0	3.1
4732.787500	50.57	74.00	23.43	150.0	H	287.0	2.8
5151.825000	49.59	68.20	18.61	150.0	H	188.0	2.6
5180.262500	94.81	68.20	-26.61	150.0	H	193.0	2.6
5234.862500	50.14	68.20	18.06	150.0	H	21.0	2.5

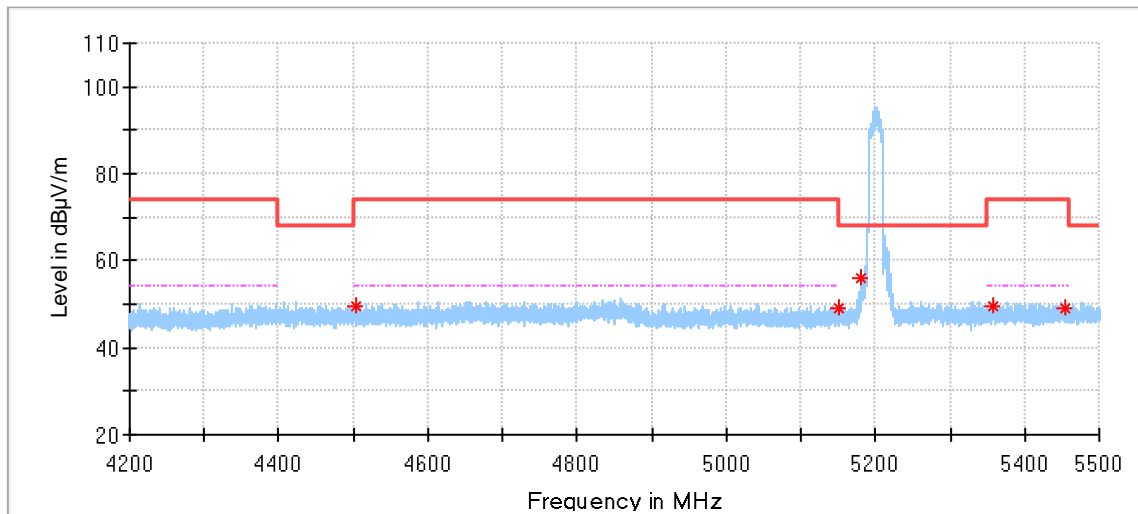


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4496.800000	49.48	68.20	18.72	150.0	V	202.0	3.2
5150.775000	48.11	68.20	20.09	150.0	V	128.0	2.6
5162.762500	55.38	68.20	12.82	150.0	V	68.0	2.7
5180.787500	93.51	68.20	-25.31	150.0	V	90.0	2.6
5237.925000	50.57	68.20	17.63	150.0	V	208.0	2.5

11n-HT20 modulation 5200MHz

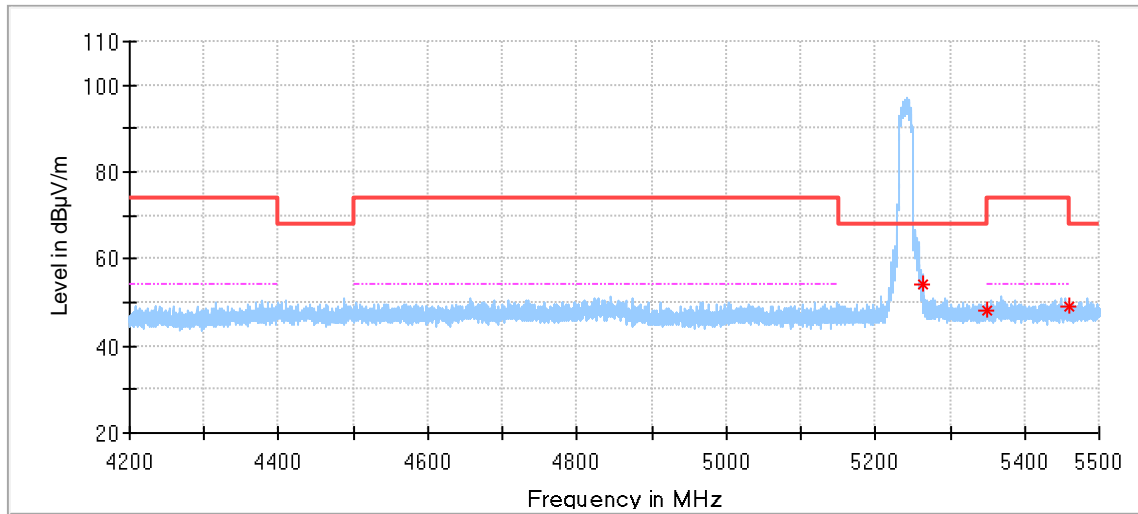


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4497.808333	49.77	68.20	18.43	150.0	H	29.0	3.2
5143.583333	50.03	74.00	23.97	150.0	H	190.0	2.5
5202.733333	97.34	68.20	-29.14	150.0	H	190.0	2.3
5348.766667	50.70	68.20	17.50	150.0	H	157.0	3.0
5464.683333	50.25	68.20	17.95	150.0	H	24.0	3.5

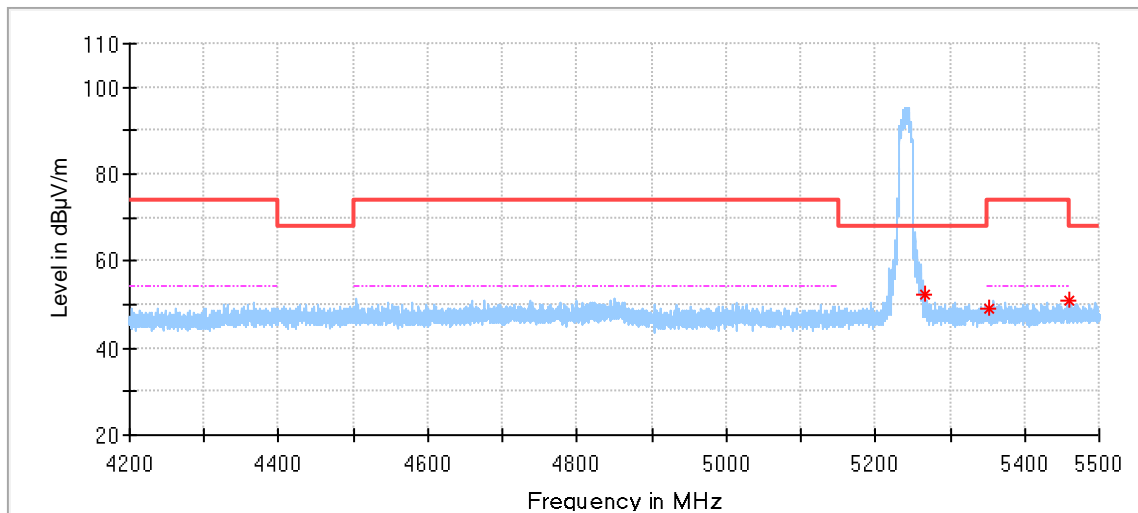


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4503.983333	49.64	74.00	24.36	150.0	V	331.0	3.1
5150.625000	49.27	68.20	18.93	150.0	V	210.0	2.6
5180.416667	56.15	68.20	12.05	150.0	V	94.0	2.6
5357.216667	49.55	74.00	24.45	150.0	V	171.0	3.0
5454.716667	49.01	74.00	24.99	150.0	V	116.0	3.6

11n-HT20 modulation 5240MHz

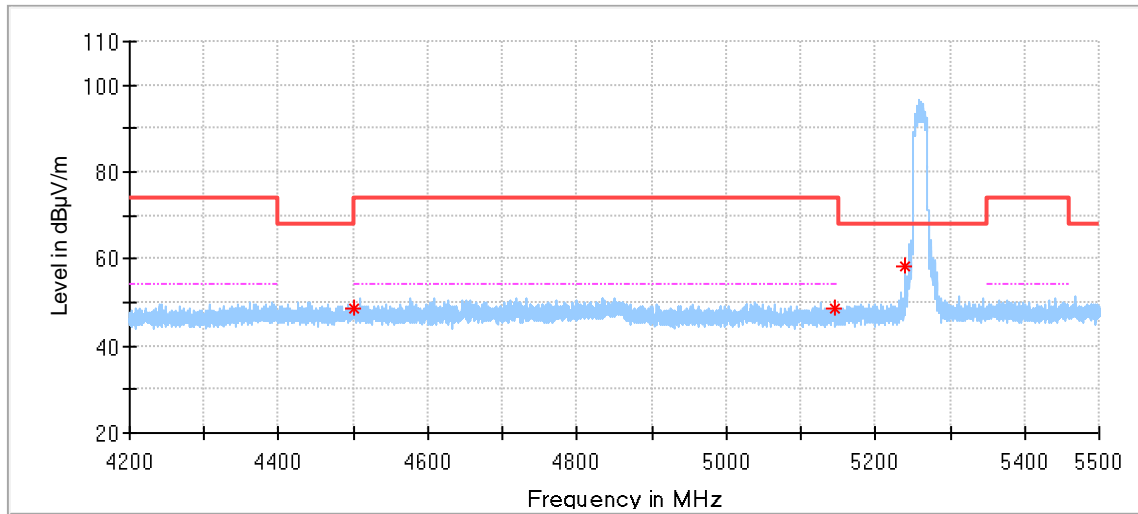


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5264.808333	53.99	68.20	14.21	150.0	H	148.0	2.9
5349.958333	48.38	68.20	19.82	150.0	H	110.0	3.0
5460.241667	49.00	68.20	19.20	150.0	H	6.0	3.6

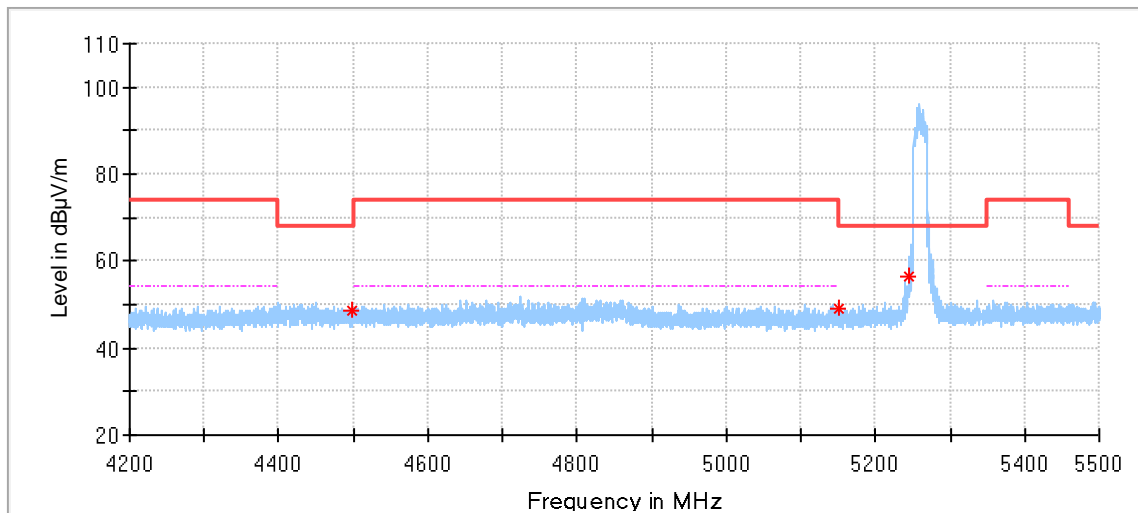


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5266.650000	52.26	68.20	15.94	150.0	V	117.0	2.9
5353.533333	48.95	74.00	25.05	150.0	V	189.0	3.0
5459.808333	50.85	74.00	23.15	150.0	V	227.0	3.6

11n-HT20 modulation 5260MHz

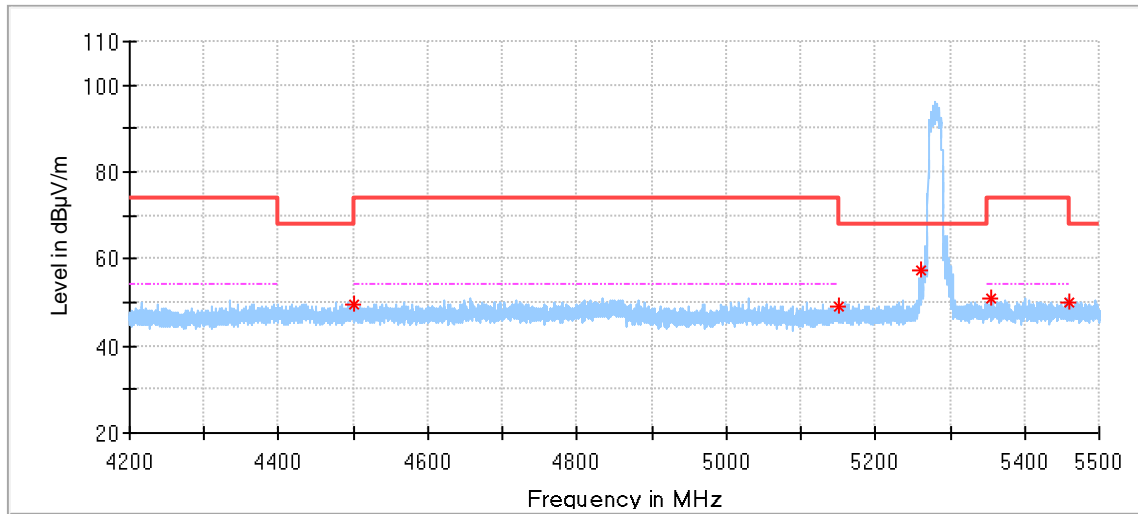


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4501.600000	48.80	74.00	25.20	150.0	H	301.0	3.1
5145.316667	48.54	74.00	25.46	150.0	H	208.0	2.5
5240.541667	58.20	68.20	10.00	150.0	H	202.0	2.5

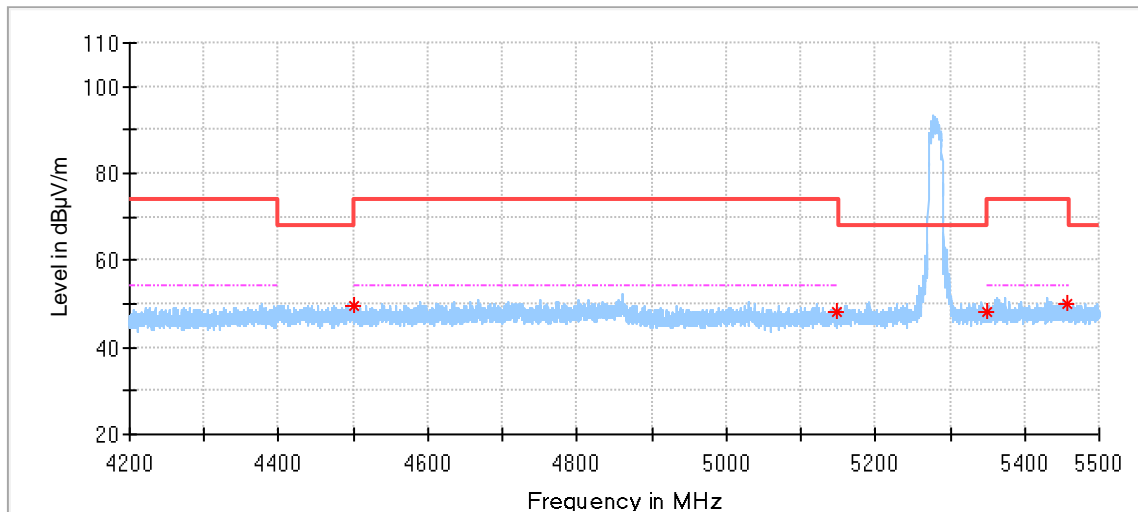


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4498.133333	48.78	68.20	19.42	150.0	V	0.0	3.2
5150.733333	49.30	68.20	18.90	150.0	V	290.0	2.6
5244.550000	56.61	68.20	11.59	150.0	V	114.0	2.6

11n-HT20 modulation 5280MHz

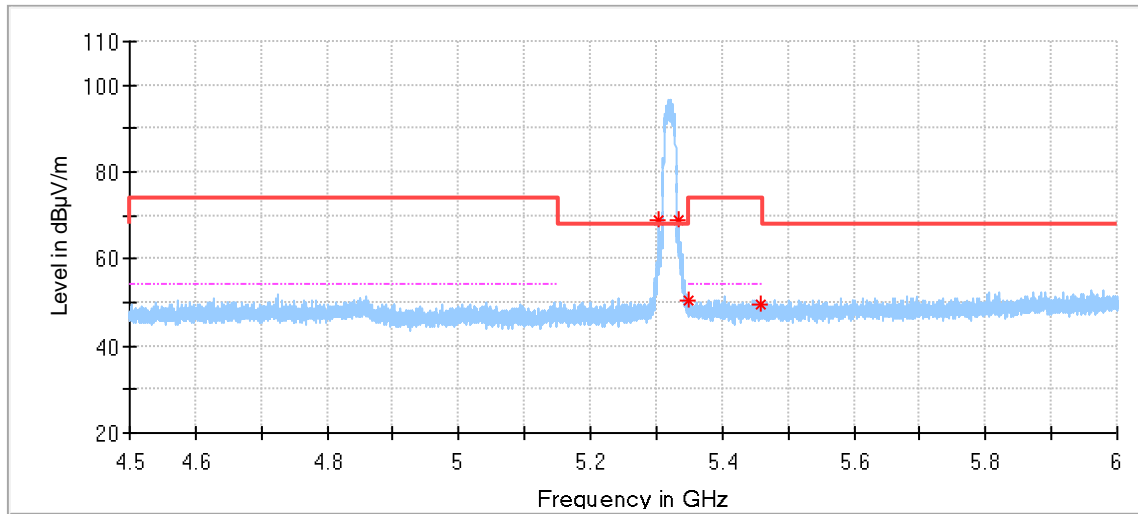


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4500.733333	49.70	74.00	24.30	150.0	H	94.0	3.2
5151.816667	49.28	68.20	18.92	150.0	H	105.0	2.6
5260.908333	57.21	68.20	10.99	150.0	H	116.0	2.8
5355.158333	50.87	74.00	23.13	150.0	H	138.0	3.0
5459.483333	49.87	74.00	24.13	150.0	H	281.0	3.6

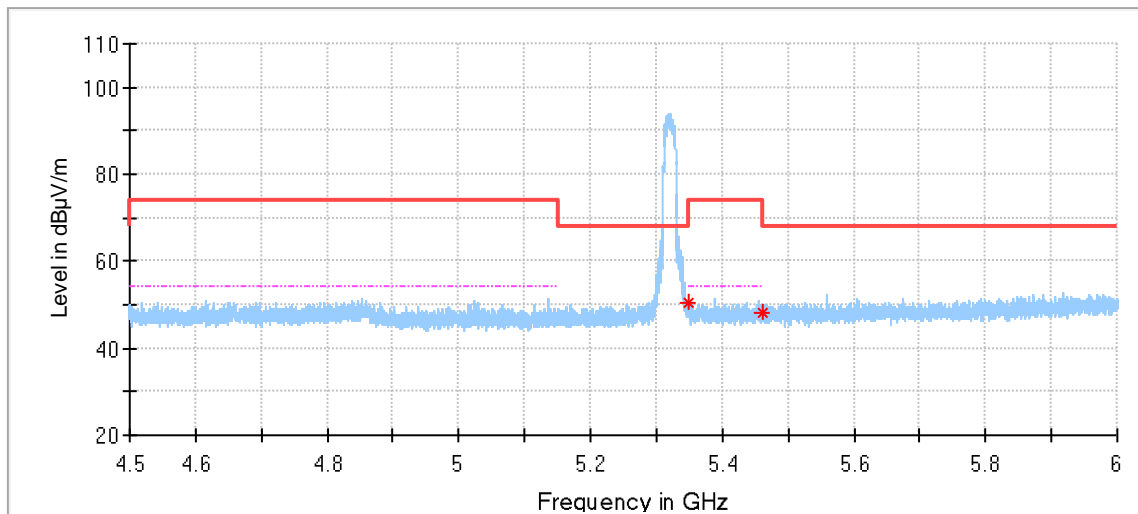


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4499.975000	49.76	68.20	18.44	150.0	V	128.0	3.2
5148.025000	48.34	74.00	25.66	150.0	V	40.0	2.6
5350.175000	48.27	74.00	25.73	150.0	V	249.0	3.0
5456.775000	49.85	74.00	24.15	150.0	V	62.0	3.6

11n-HT20 modulation 5320MHz

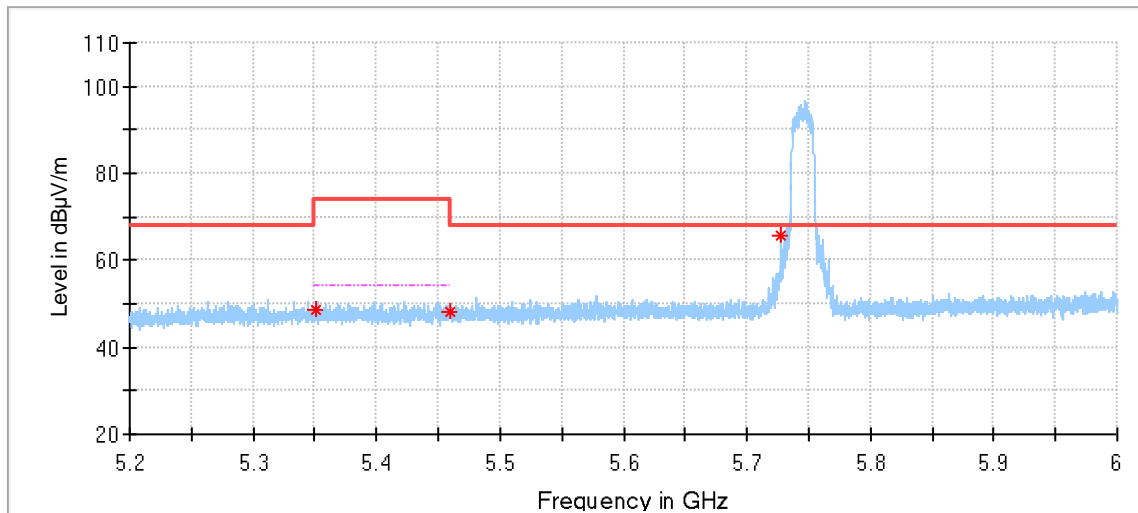


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5303.750000	68.91	68.20	-0.71	150.0	H	189.0	2.6
5332.250000	68.88	68.20	-0.68	150.0	H	205.0	2.8
5348.875000	50.46	68.20	17.74	150.0	H	271.0	3.0
5459.750000	49.64	74.00	24.36	150.0	H	0.0	3.6

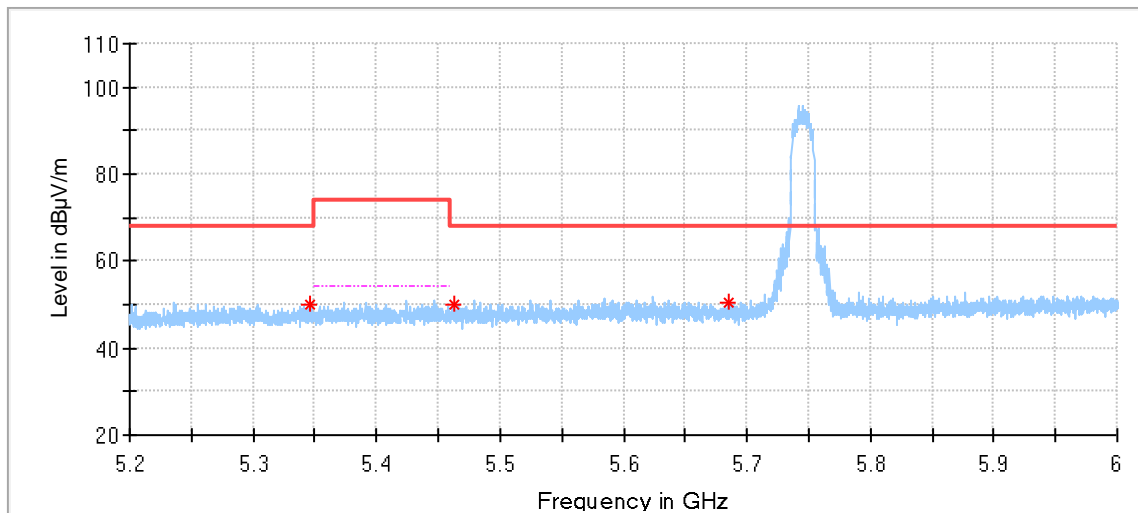


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5349.875000	50.45	68.20	17.75	150.0	V	314.0	3.0
5460.125000	47.98	68.20	20.22	150.0	V	309.0	3.6

11n-HT20 modulation 5745MHz

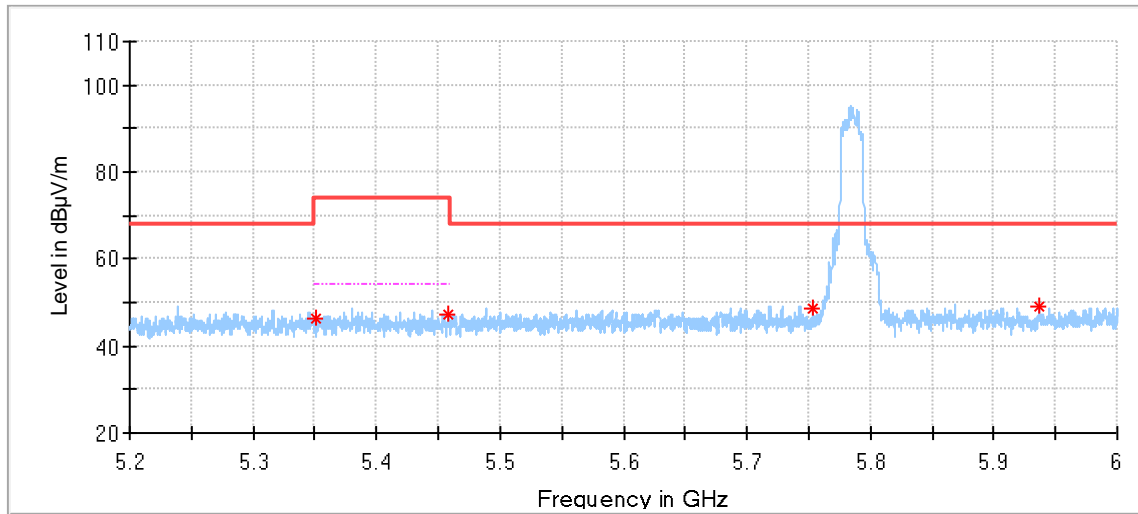


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.625000	48.55	74.00	25.45	150.0	H	83.0	3.0
5460.000000	48.17	68.20	20.03	150.0	H	45.0	3.6
5727.625000	65.68	68.20	2.52	150.0	H	149.0	3.4

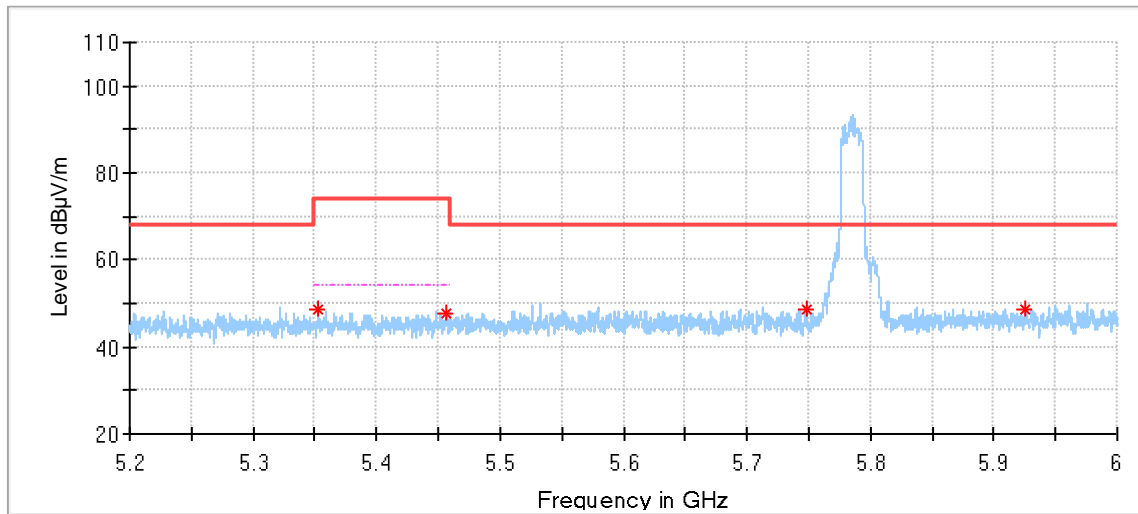


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5346.125000	49.90	68.20	18.30	150.0	V	339.0	3.0
5463.375000	50.15	68.20	18.05	150.0	V	73.0	3.5
5685.750000	50.44	68.20	17.76	150.0	V	84.0	3.3

11n-HT20 modulation 5785MHz

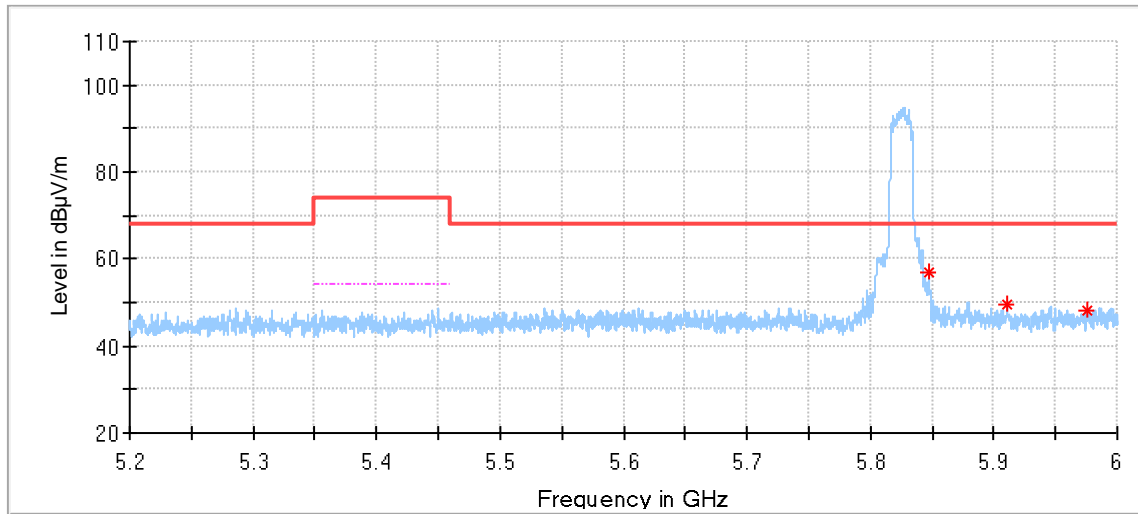


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.466667	46.13	74.00	27.87	150.0	H	335.0	3.0
5457.933333	47.27	74.00	26.73	150.0	H	346.0	3.6
5753.000000	48.51	68.20	19.69	150.0	H	14.0	3.6
5936.333333	49.24	68.20	18.96	150.0	H	313.0	4.3

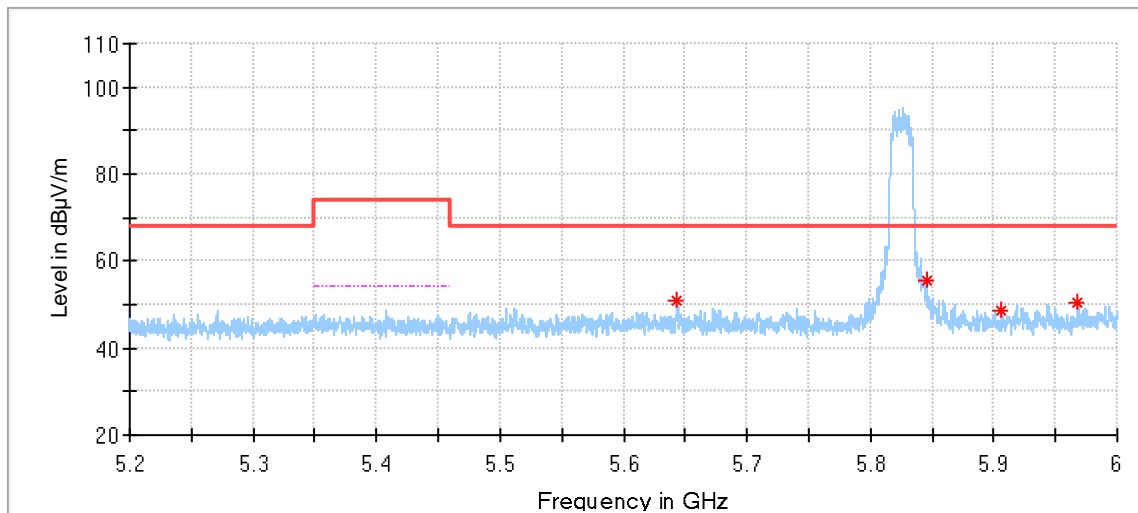


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5352.933333	48.67	74.00	25.33	150.0	V	340.0	3.0
5456.466667	47.63	74.00	26.37	150.0	V	196.0	3.6
5747.800000	48.70	68.20	19.50	150.0	V	103.0	3.6
5925.000000	48.76	68.20	19.44	150.0	V	53.0	4.3

11n-HT20 modulation 5825MHz

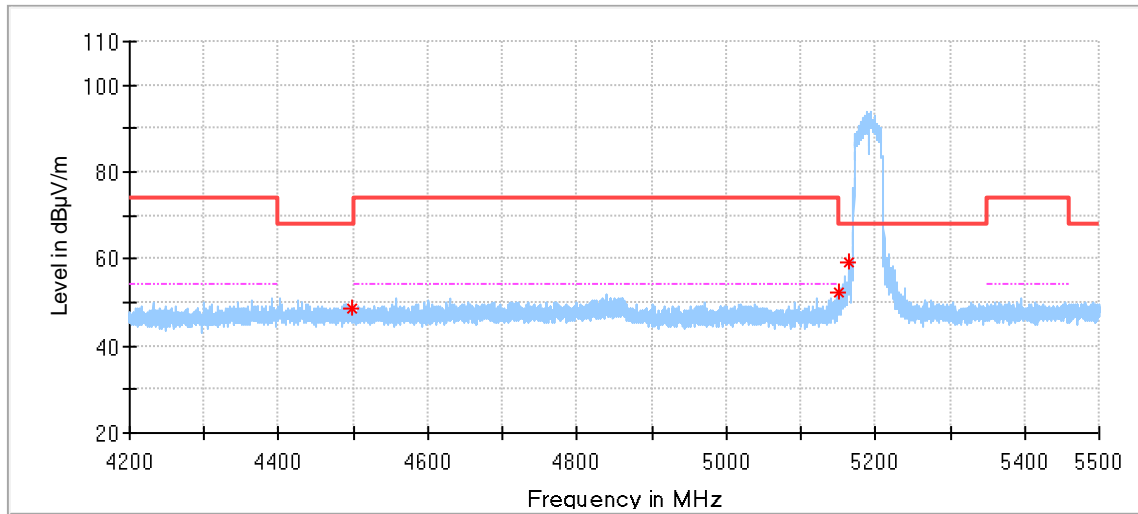


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5847.533333	57.07	68.20	11.13	150.0	H	121.0	3.8
5910.400000	49.42	68.20	18.78	150.0	H	280.0	4.3
5974.933333	48.33	68.20	19.87	150.0	H	187.0	4.6

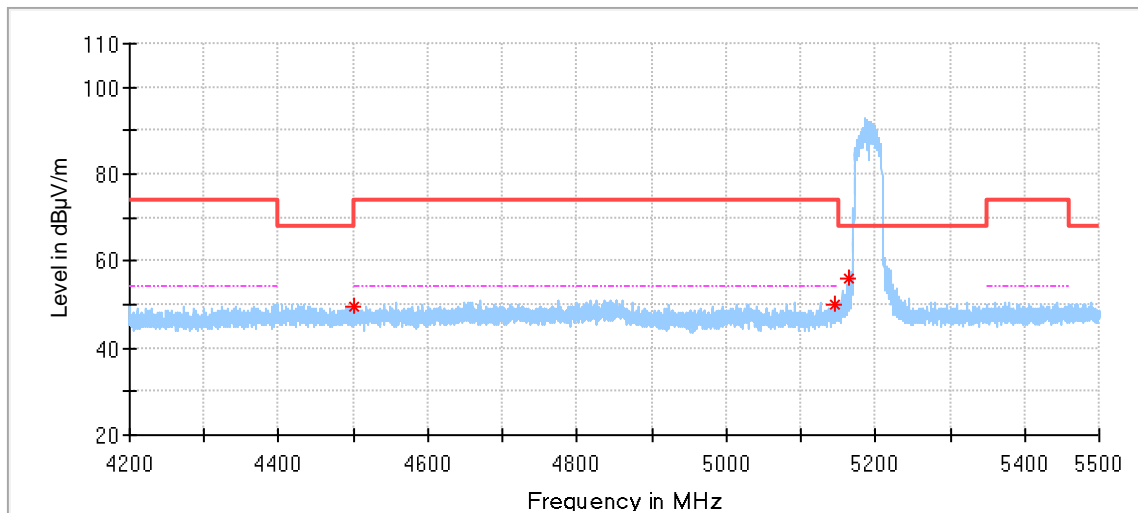


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5643.400000	50.70	68.20	17.50	150.0	V	19.0	3.6
5845.200000	55.63	68.20	12.57	150.0	V	58.0	3.8
5906.133333	48.73	68.20	19.47	150.0	V	261.0	4.3
5968.133333	50.49	68.20	17.71	150.0	V	135.0	4.5

11n-HT40 modulation 5190MHz

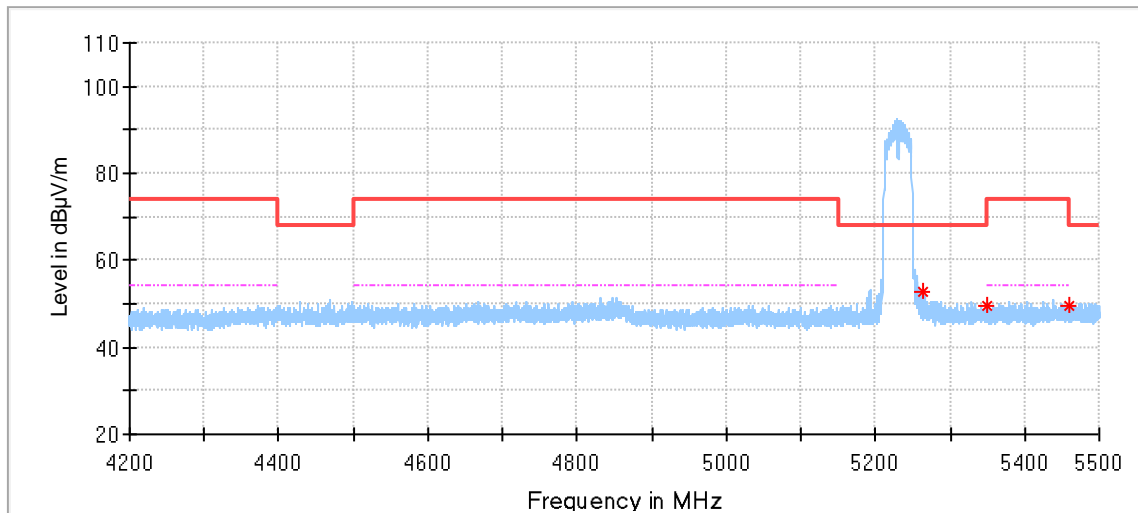


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4498.891667	48.74	68.20	19.46	150.0	H	29.0	3.2
5149.541667	52.51	74.00	21.49	150.0	H	107.0	2.6
5165.575000	59.21	68.20	8.99	150.0	H	118.0	2.7

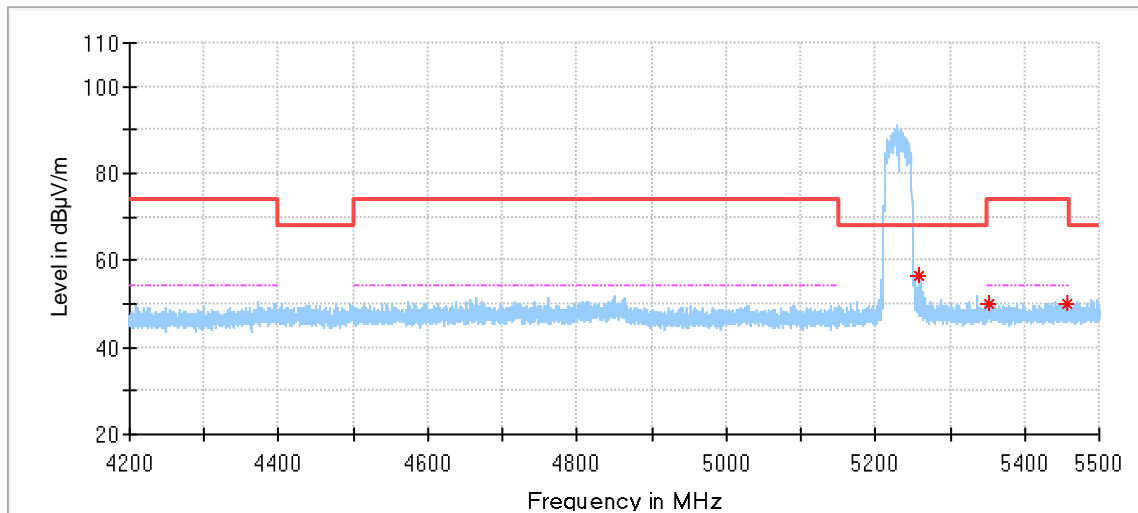


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4501.491667	49.52	74.00	24.48	150.0	V	243.0	3.1
5144.233333	50.14	74.00	23.86	150.0	V	320.0	2.5
5164.925000	55.86	68.20	12.34	150.0	V	111.0	2.7

11n-HT40 modulation 5230MHz

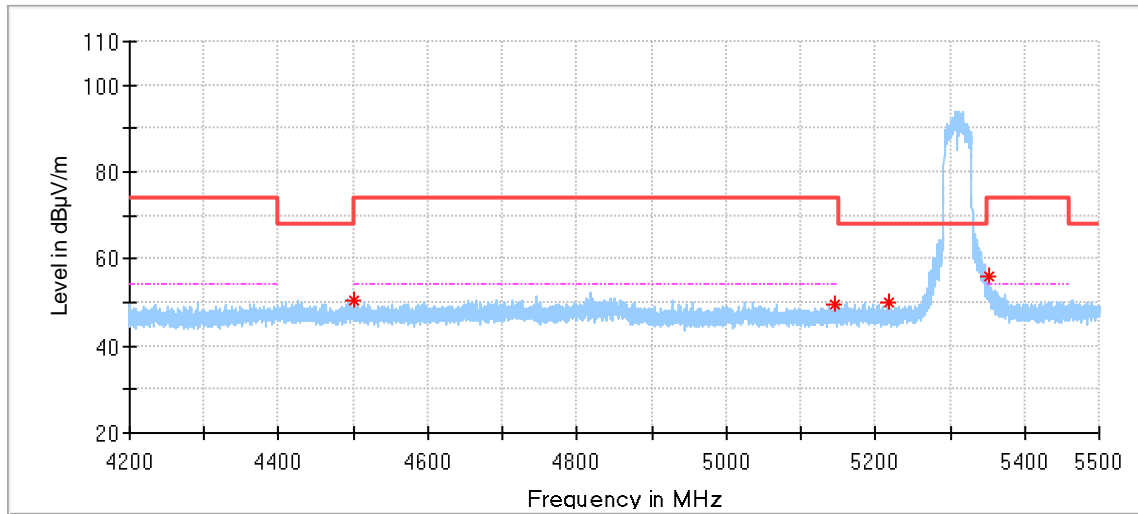


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5262.858333	52.67	68.20	15.53	150.0	H	127.0	2.9
5350.825000	49.42	74.00	24.58	150.0	H	259.0	3.0
5459.266667	49.48	74.00	24.52	150.0	H	127.0	3.6

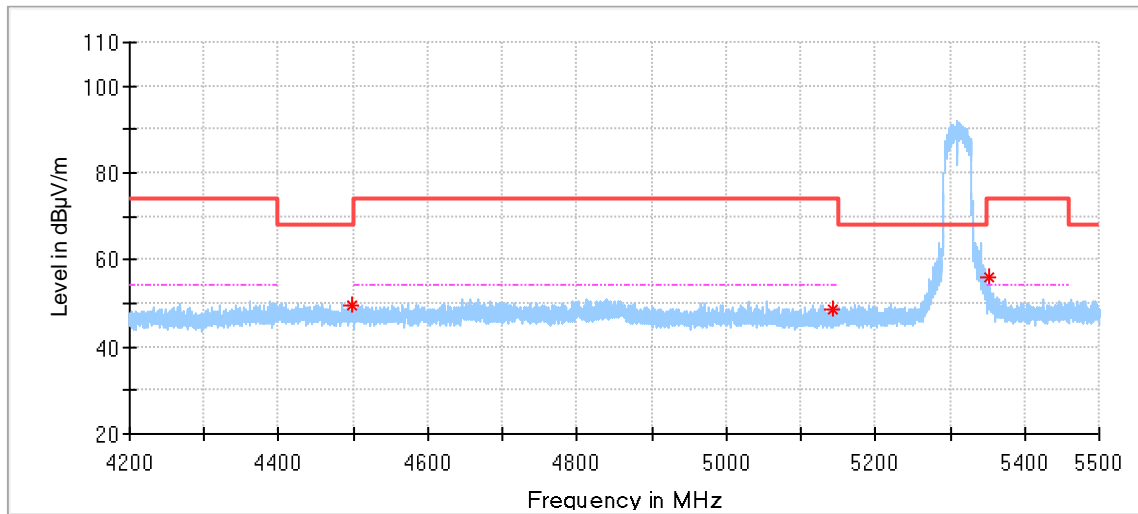


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5258.633333	56.68	68.20	11.52	150.0	V	4.0	2.8
5353.316667	50.03	74.00	23.97	150.0	V	332.0	3.0
5455.908333	50.06	74.00	23.94	150.0	V	0.0	3.6

11n-HT40 modulation 5270MHz

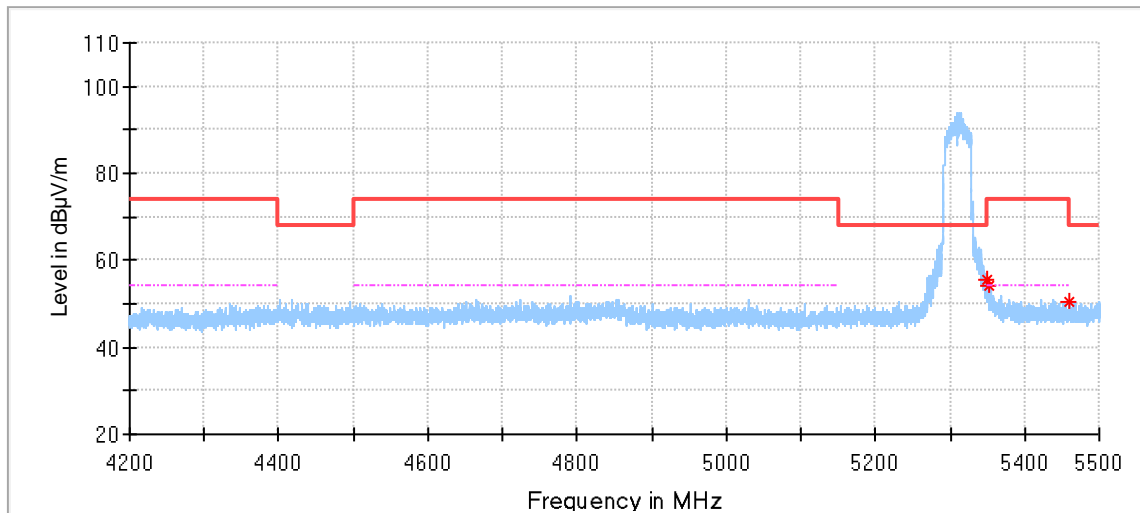


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4501.816667	50.37	74.00	23.63	150.0	H	24.0	3.1
5145.100000	49.56	74.00	24.44	150.0	H	344.0	2.5
5218.225000	50.19	68.20	18.01	150.0	H	106.0	2.3
5353.425000	56.16	74.00	17.84	150.0	H	168.0	3.0

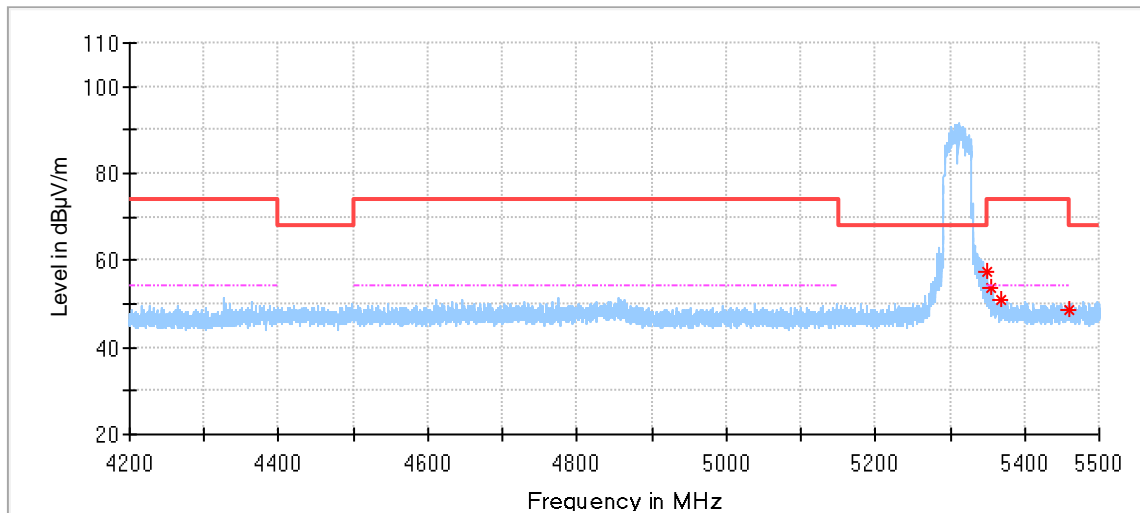


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4499.108333	49.48	68.20	18.72	150.0	V	97.0	3.2
5144.016667	48.68	74.00	25.32	150.0	V	53.0	2.5
5352.775000	55.93	74.00	18.07	150.0	V	92.0	3.0

11n-HT40 modulation 5310MHz

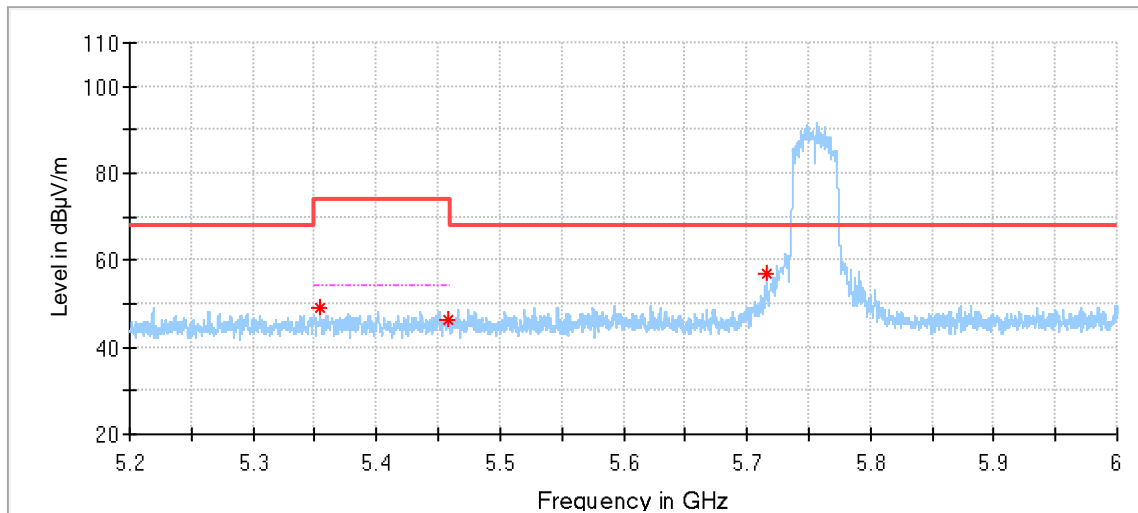


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5349.958333	55.75	68.20	12.45	150.0	H	181.0	3.0
5352.883333	54.03	74.00	19.97	150.0	H	143.0	3.0
5458.508333	50.40	74.00	23.60	150.0	H	165.0	3.6

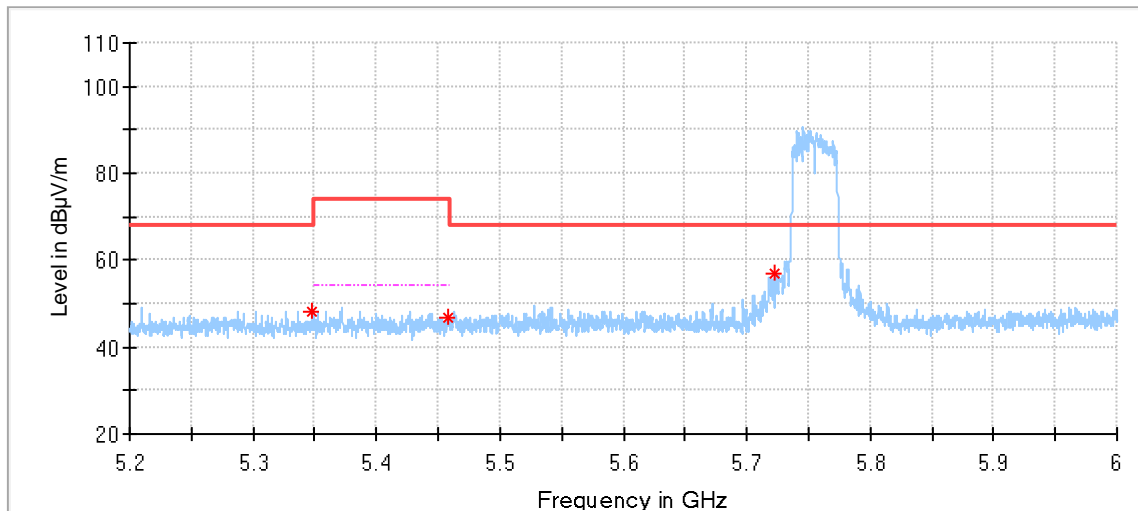


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5350.500000	57.18	74.00	16.82	150.0	V	106.0	3.0
5354.183333	53.81	74.00	20.19	150.0	V	90.0	3.0
5368.591667	51.12	74.00	22.88	150.0	V	117.0	3.2
5460.133333	48.45	68.20	19.75	150.0	V	123.0	3.6

11n-HT40 modulation 5755MHz

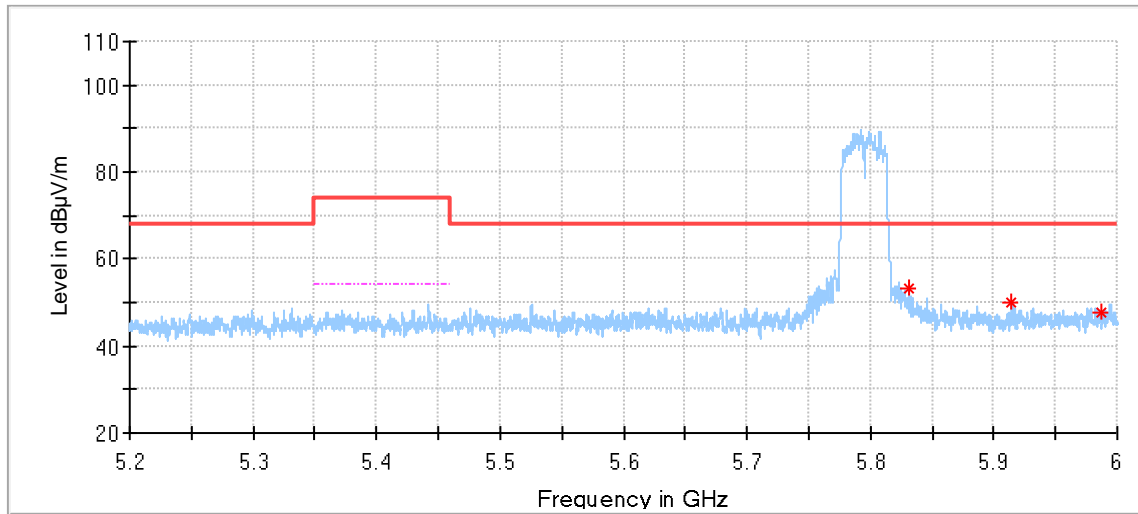


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5353.933333	49.25	74.00	24.75	150.0	H	80.0	3.0
5457.600000	46.45	74.00	27.55	150.0	H	220.0	3.6
5716.266667	57.09	68.20	11.11	150.0	H	0.0	3.3

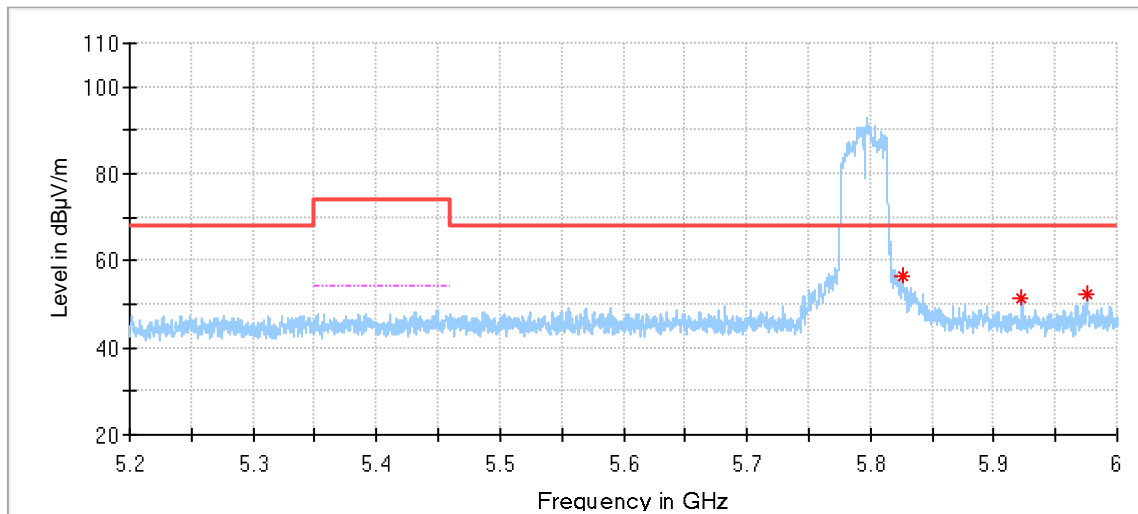


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5348.400000	48.36	68.20	19.84	150.0	V	96.0	3.0
5457.466667	46.58	74.00	27.42	150.0	V	140.0	3.6
5723.200000	56.86	68.20	11.34	150.0	V	113.0	3.4

11n-HT40 modulation 5795MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5831.400000	53.34	68.20	14.86	150.0	V	121.0	3.7
5914.733333	49.82	68.20	18.38	150.0	V	275.0	4.3
5986.866667	47.62	68.20	20.58	150.0	V	110.0	4.8



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5826.066667	56.43	68.20	11.77	150.0	H	168.0	3.7
5922.600000	51.29	68.20	16.92	150.0	H	179.0	4.3
5975.200000	52.11	68.20	16.09	150.0	H	69.0	4.6

9.6 Band Edge

Test Method

According to KBD789033 D02

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.

Limits:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

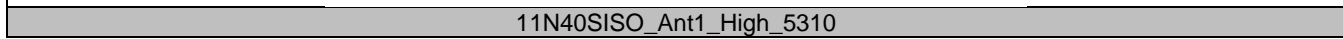
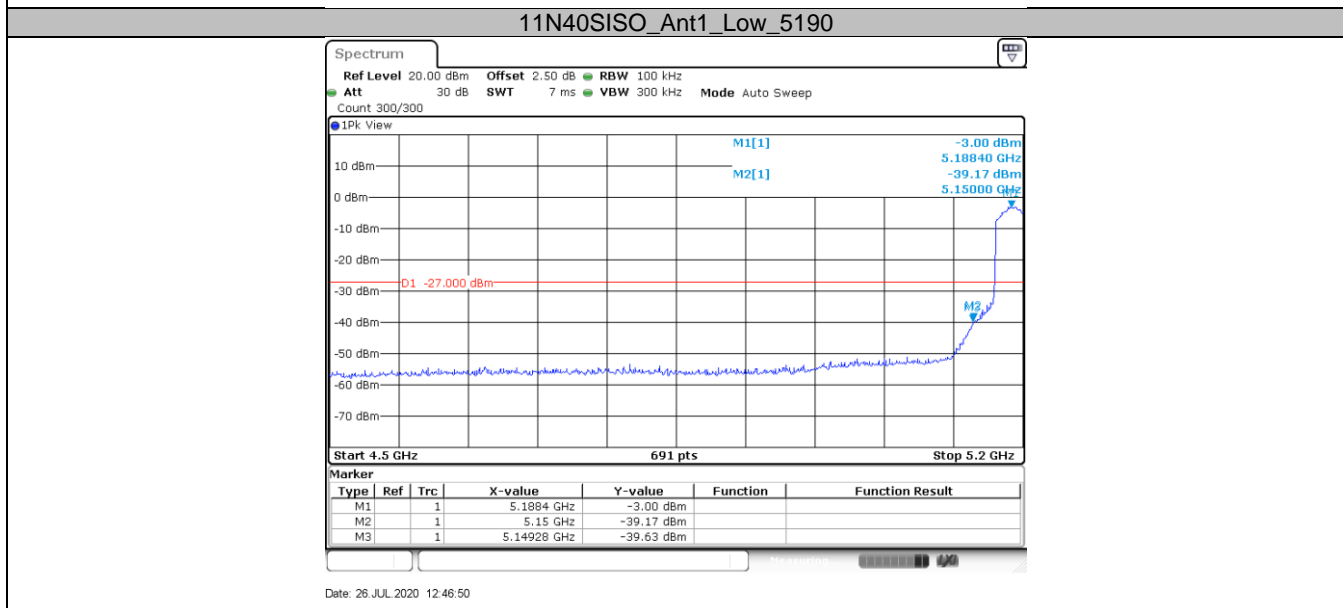
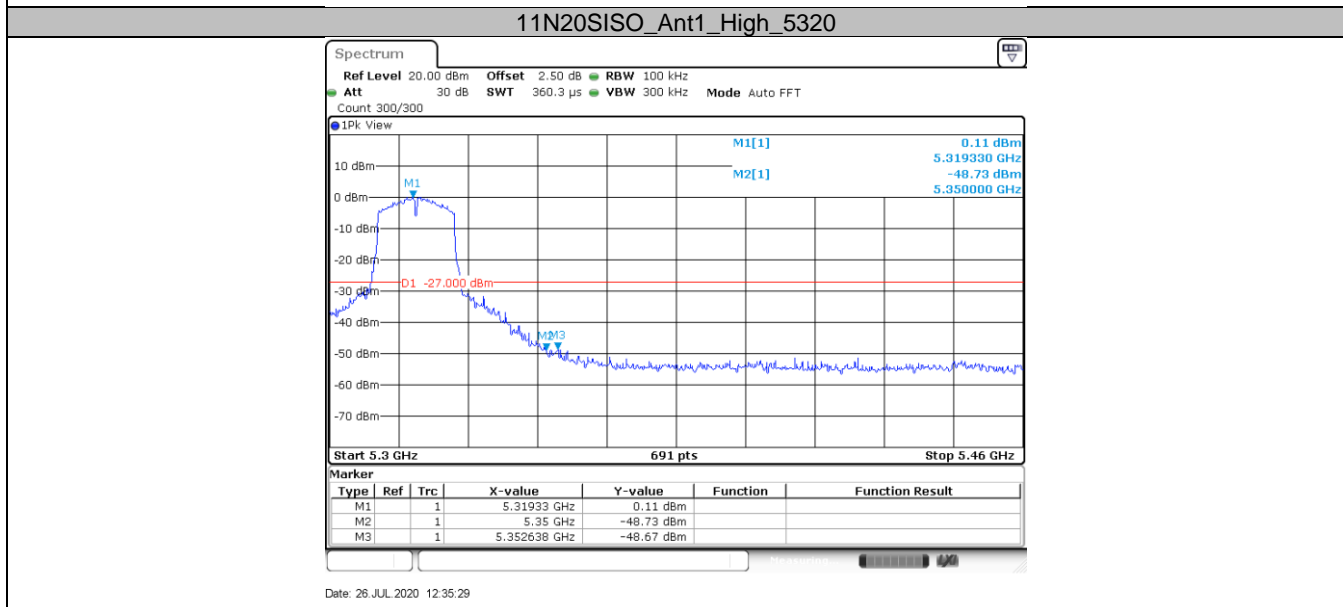
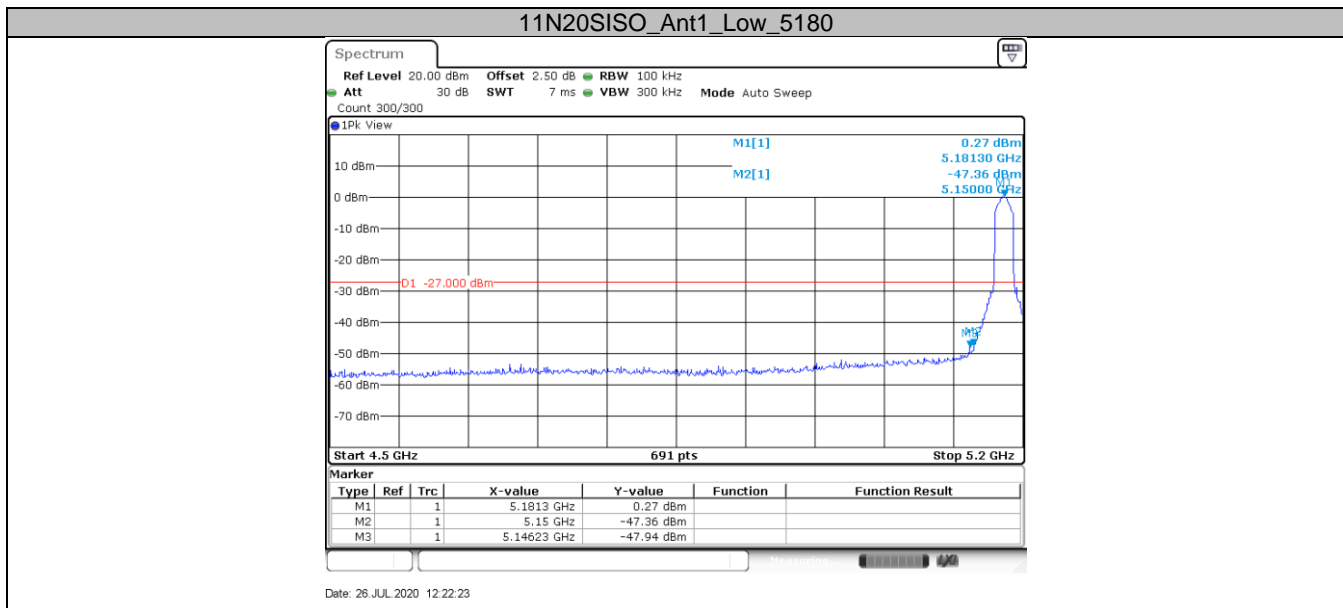
For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

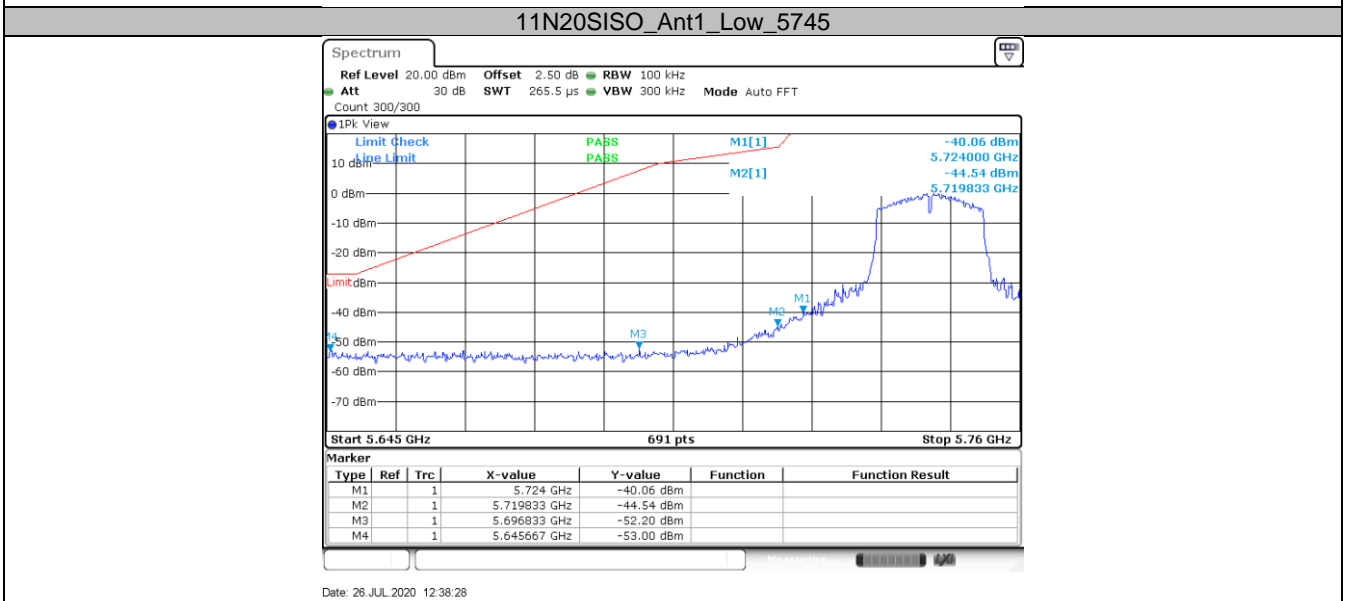
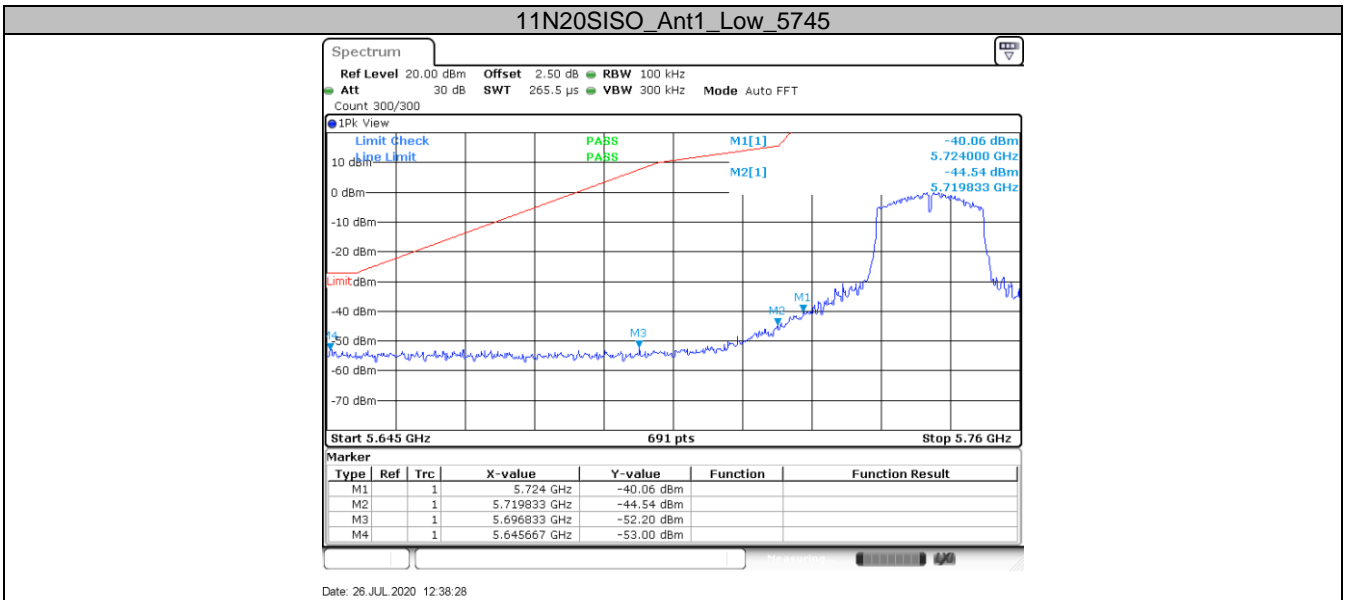
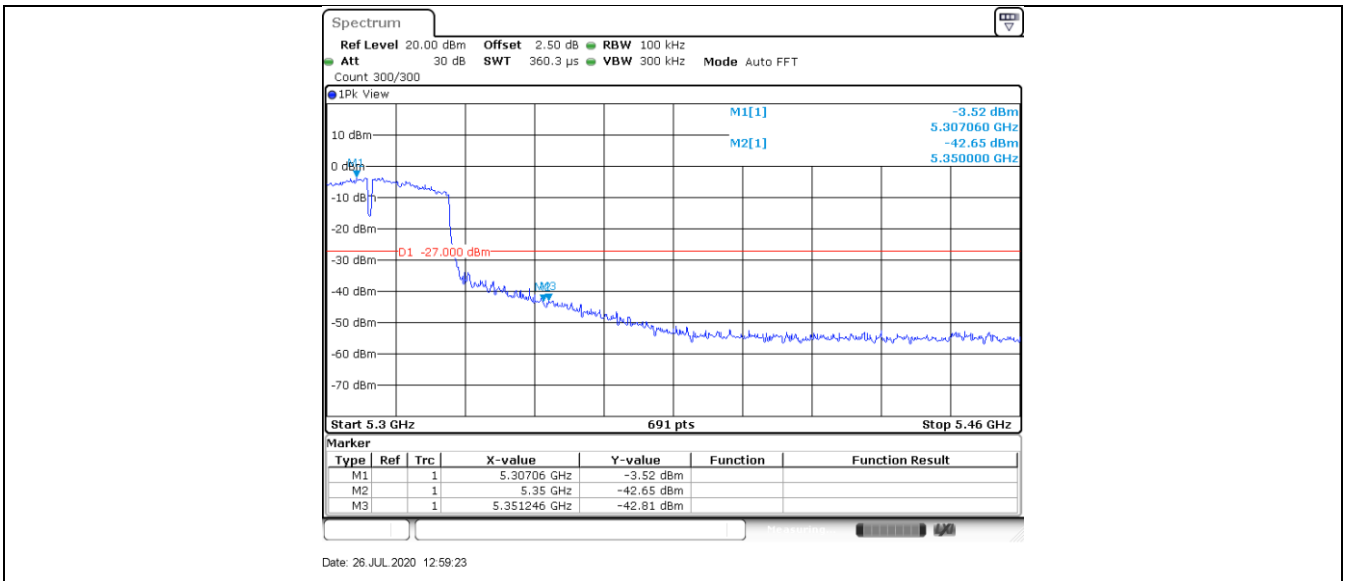
For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Test Result:

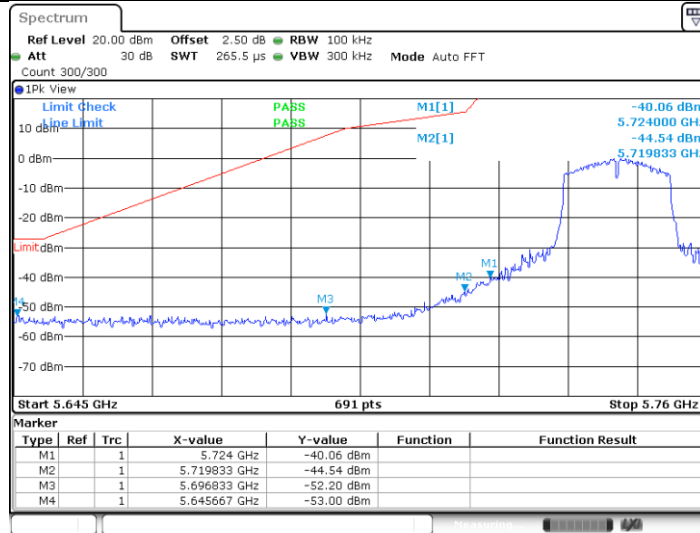
Test Mode	Antenna	ChName	Channel(MHz)	Result(dBm)	Limit(dBm)	Verdict
11n-HT20	Ant1	Low	5180	-47.94	≤ -27	PASS
		High	5320	-48.67	≤ -27	PASS
11n-HT40	Ant1	Low	5190	-39.63	≤ -27	PASS
		High	5310	-42.81	≤ -27	PASS

Test Mode	Antenna	ChName	Channel(MHz)	FreqRange(MHz)	Result(dBm)	Limit(dBm)	Verdict
11n-HT20	Ant1	Low	5745	5650~5700	-52.2	7.66	PASS
				5700~5720	-44.54	15.55	PASS
				5720~5725	-40.06	24.72	PASS
				5760~5650	-53	-27	PASS
		High	5825	5850~5855	-44.41	19.37	PASS
				5855~5875	-47.68	10.43	PASS
				5875~5925	-50.74	-4.75	PASS
				5925~5935	-51.83	-27	PASS
11n-HT40	Ant1	Low	5755	5650~5700	-49.9	8.83	PASS
				5700~5720	-39.02	15.36	PASS
				5720~5725	-37.75	26.16	PASS
				5780~5650	-52.61	-27	PASS
		High	5795	5850~5855	-46.62	17.48	PASS
				5855~5875	-48.46	10.04	PASS
				5875~5925	-50.73	-11.80	PASS
				5925~5935	-52.46	-27	PASS



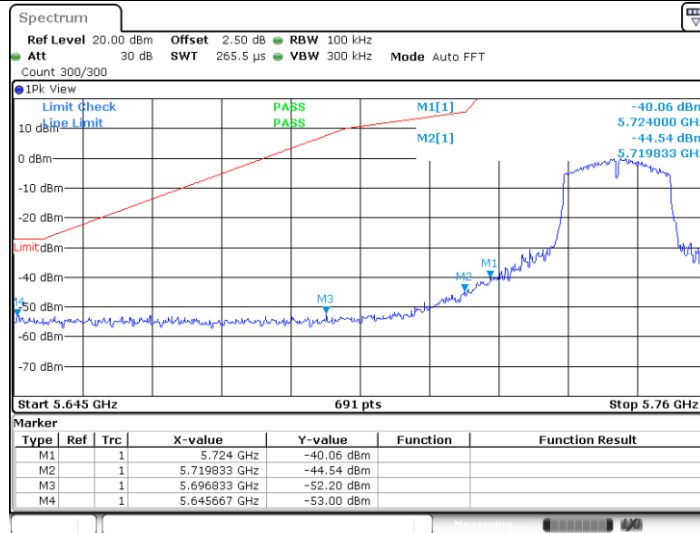


11N20SISO Ant1_Low_5745



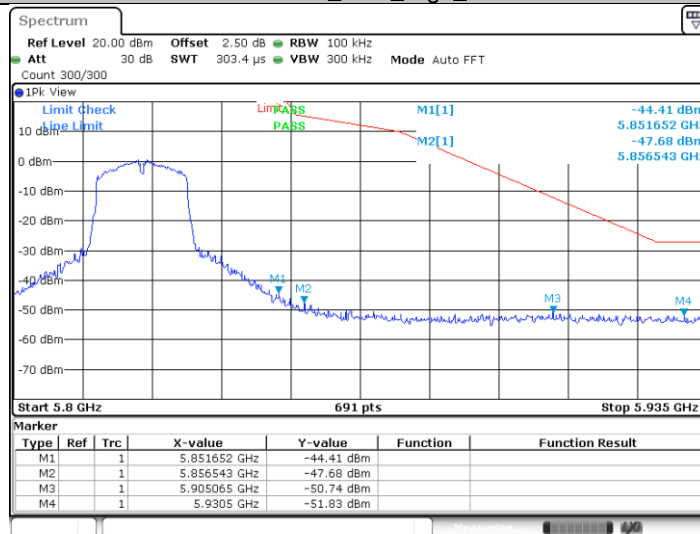
Date: 26 JUL 2020 12:38:28

11N20SISO Ant1 Low 5745



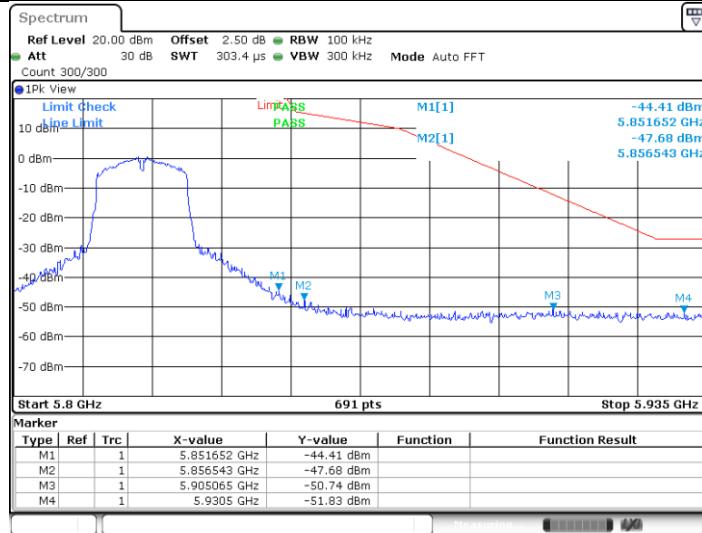
Date: 26 JUL 2020 12:38:28

11N20SISO Ant1 High 5825



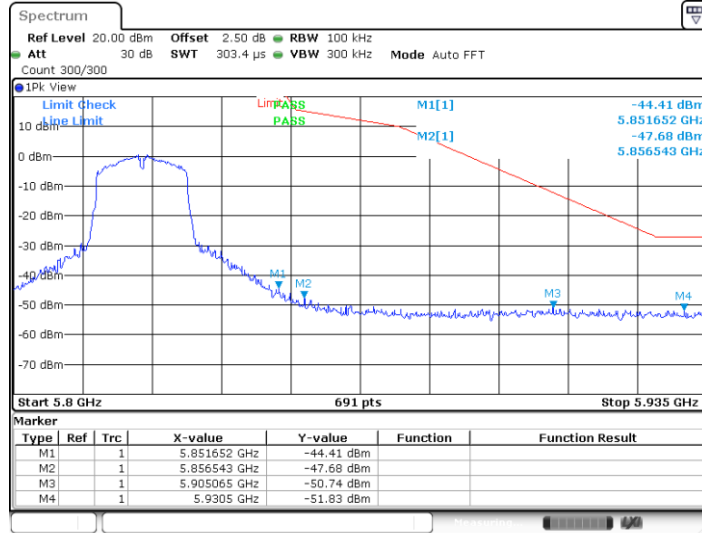
Date: 26 JUL 2020 12:43:37

11N20SISO Ant1 High 5825



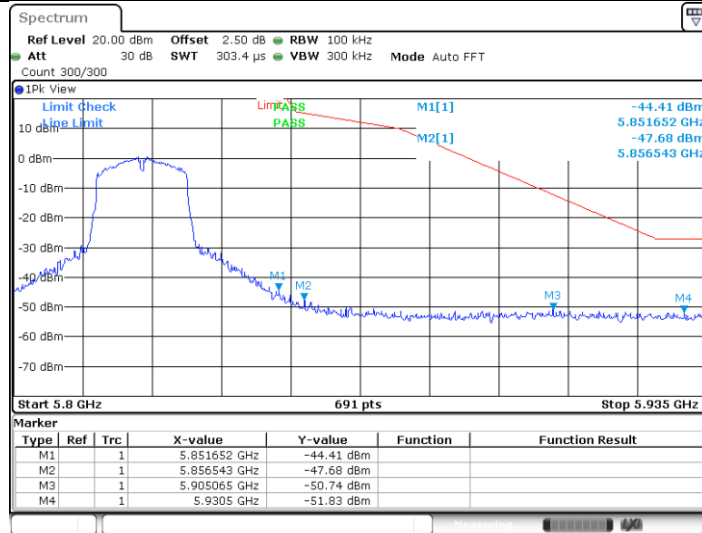
Date: 26 JUL 2020 12:43:37

11N20SISO_Ant1_High_5825



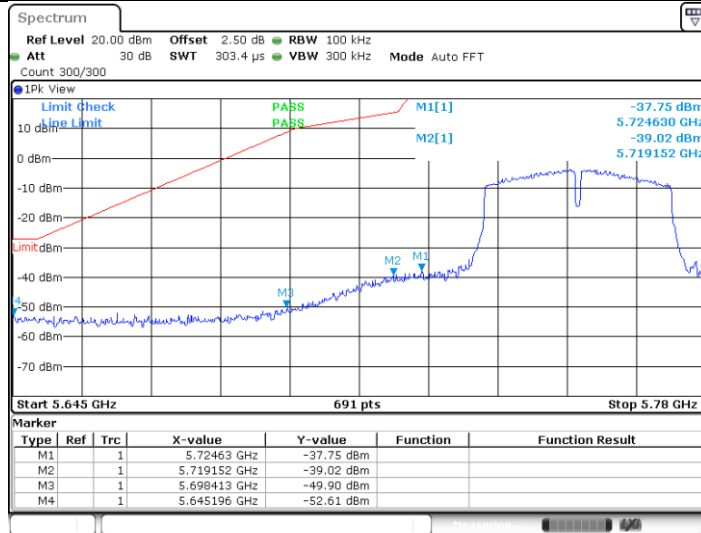
Date: 26 JUL 2020 12:43:37

11N20SISO_Ant1_High_5825



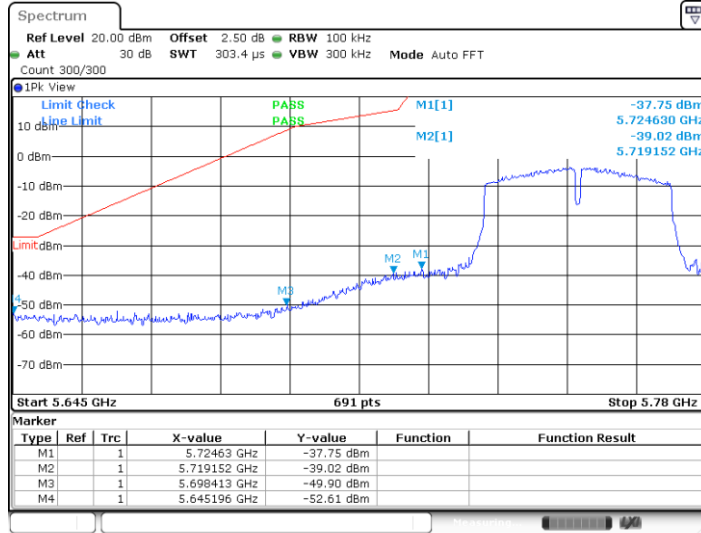
Date: 26 JUL 2020 12:43:37

11N40SISO_Ant1_Low_5755



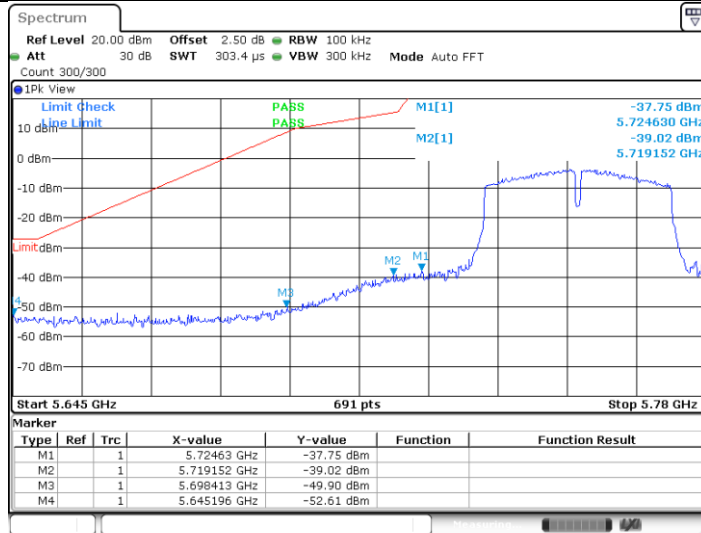
Date: 26 JUL 2020 13:04:40

11N40SISO Ant1_Low_5755



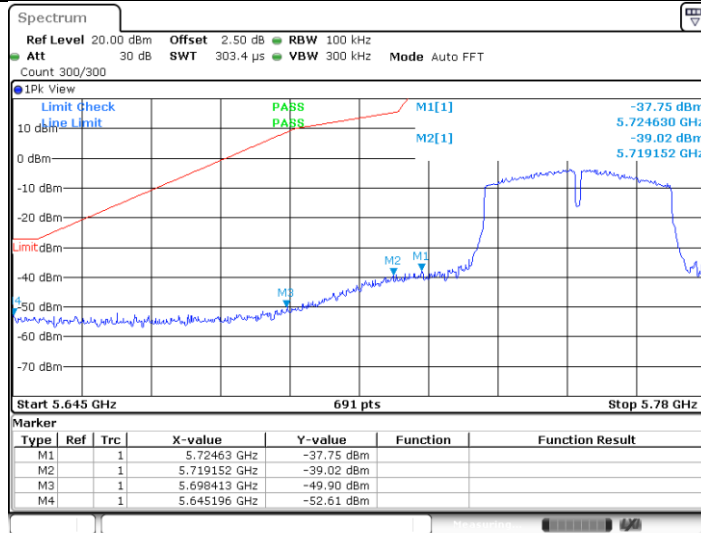
Date: 26 JUL 2020 13:04:40

11N40SISO Ant1_Low_5755



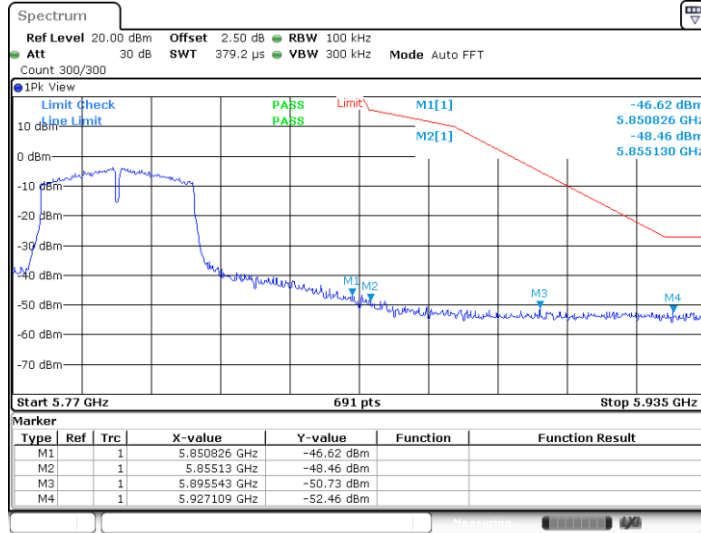
Date: 26 JUL 2020 13:04:40

11N40SISO Ant1_Low_5755



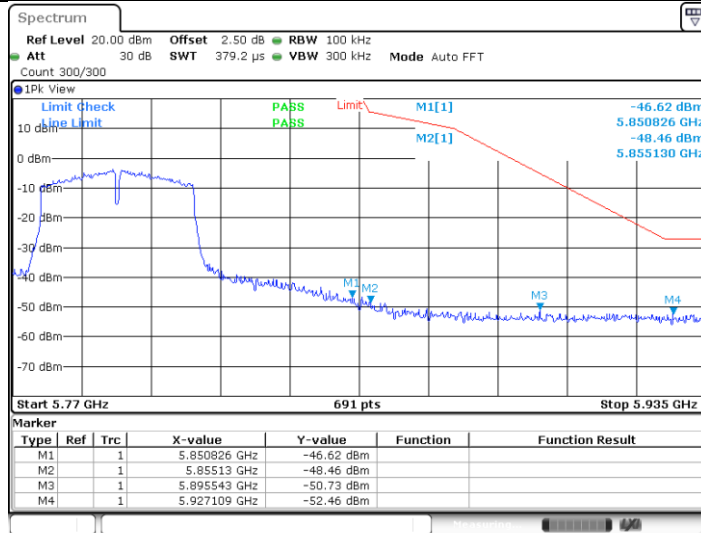
Date: 26 JUL 2020 13:04:40

11N40SISO_Ant1_High_5795



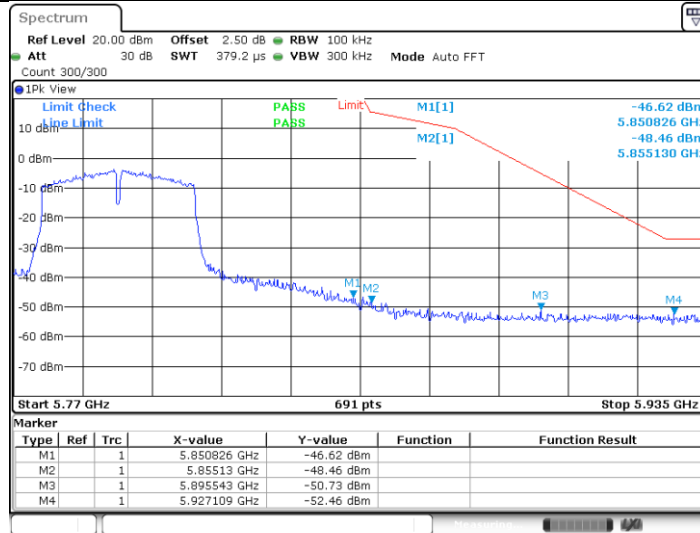
Date: 26 JUL 2020 13:07:28

11N40SISO_Ant1_High_5795



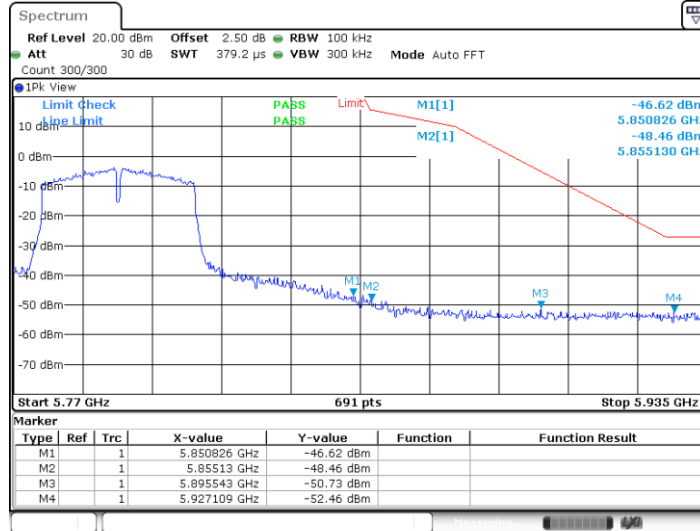
Date: 26 JUL 2020 13:07:28

11N40SISO_Ant1_High_5795



Date: 26 JUL 2020 13:07:28

11N40SISO_Ant1_High_5795

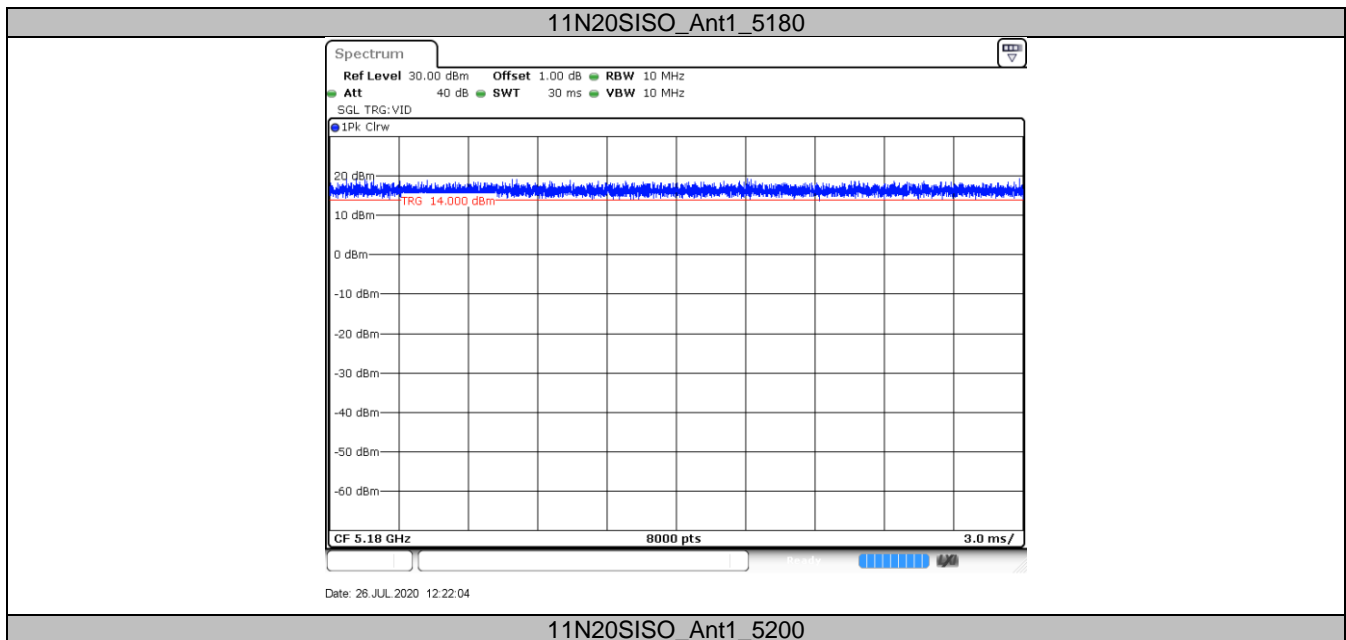


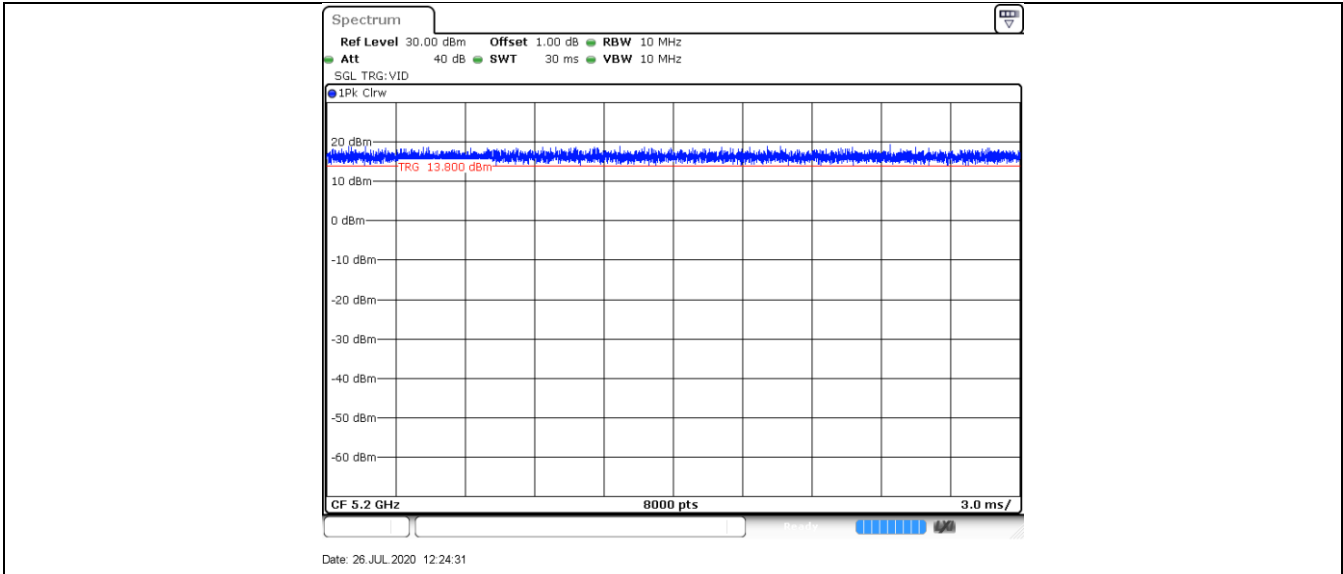
Date: 26 JUL 2020 13:07:28

9.7 Duty Cycle

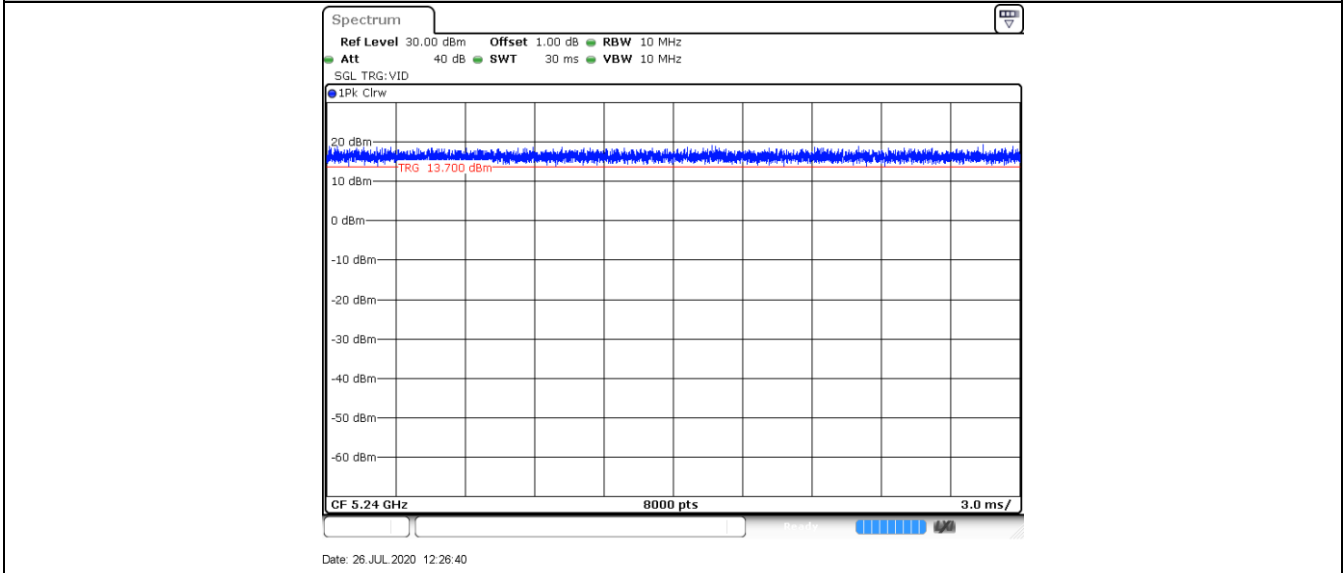
Test Data:

TestMode	Antenna	Channel	Duty Cycle [%]
802.11n HT20	Ant1	5180	100.00
		5200	100.00
		5240	100.00
		5260	100.00
		5280	100.00
		5320	100.00
		5745	100.00
		5785	100.00
802.11n HT40	Ant1	5825	100.00
		5190	100.00
		5230	100.00
		5270	100.00
		5310	100.00
		5755	100.00
		5795	100.00

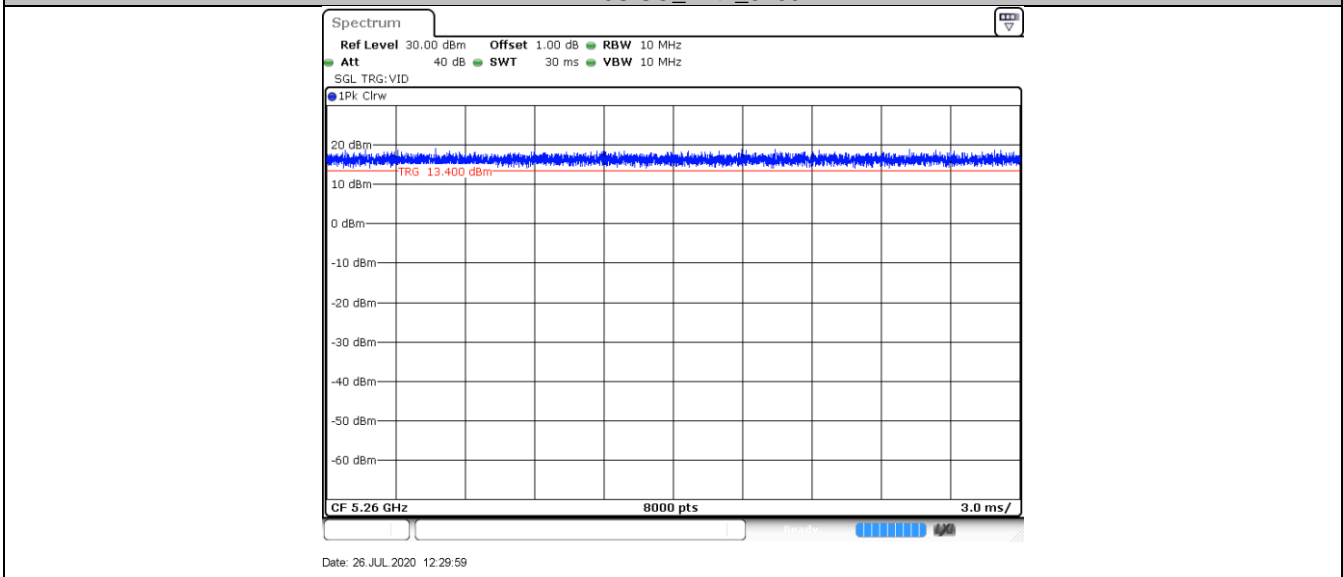




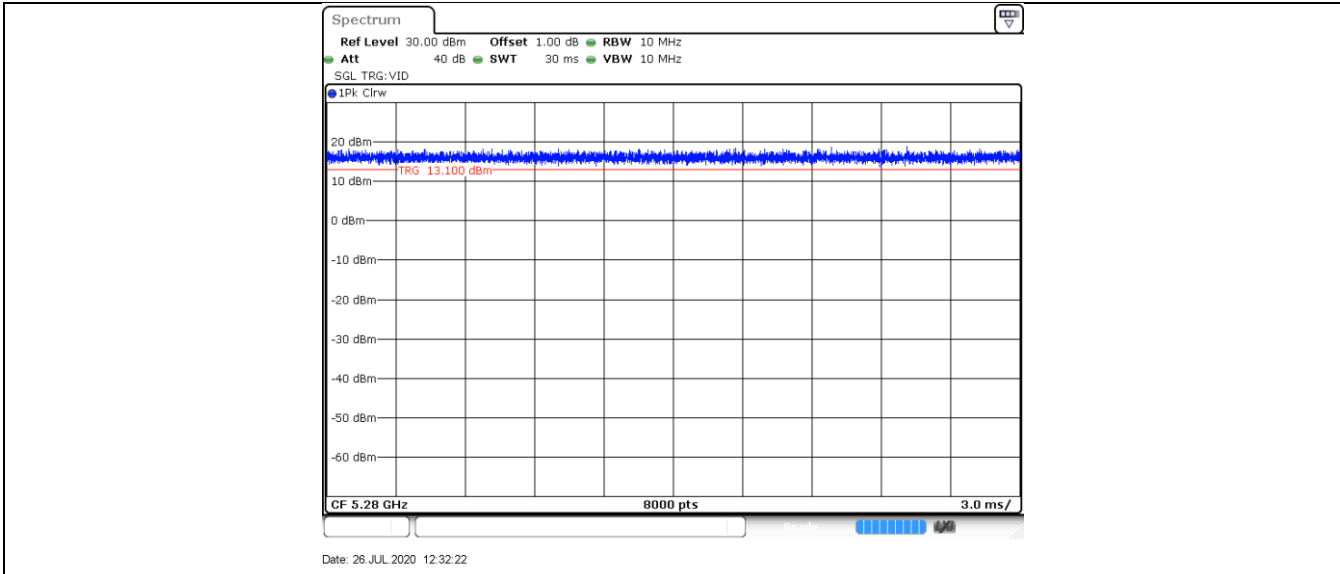
11N20SISO_Ant1_5240



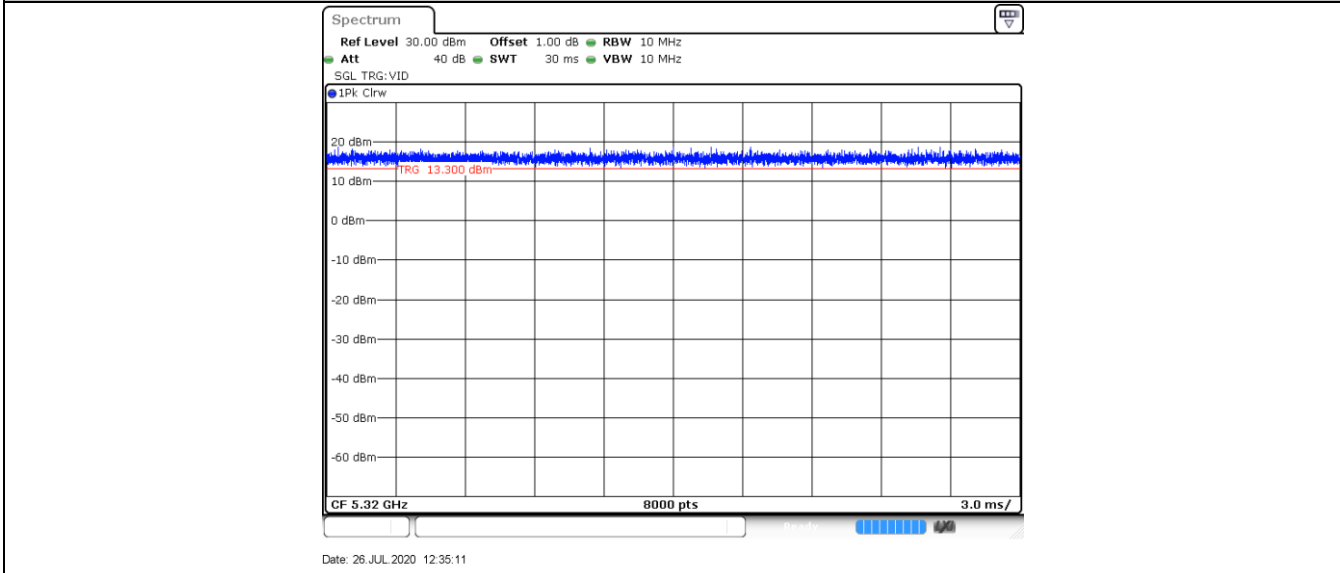
11N20SISO_Ant1_5260



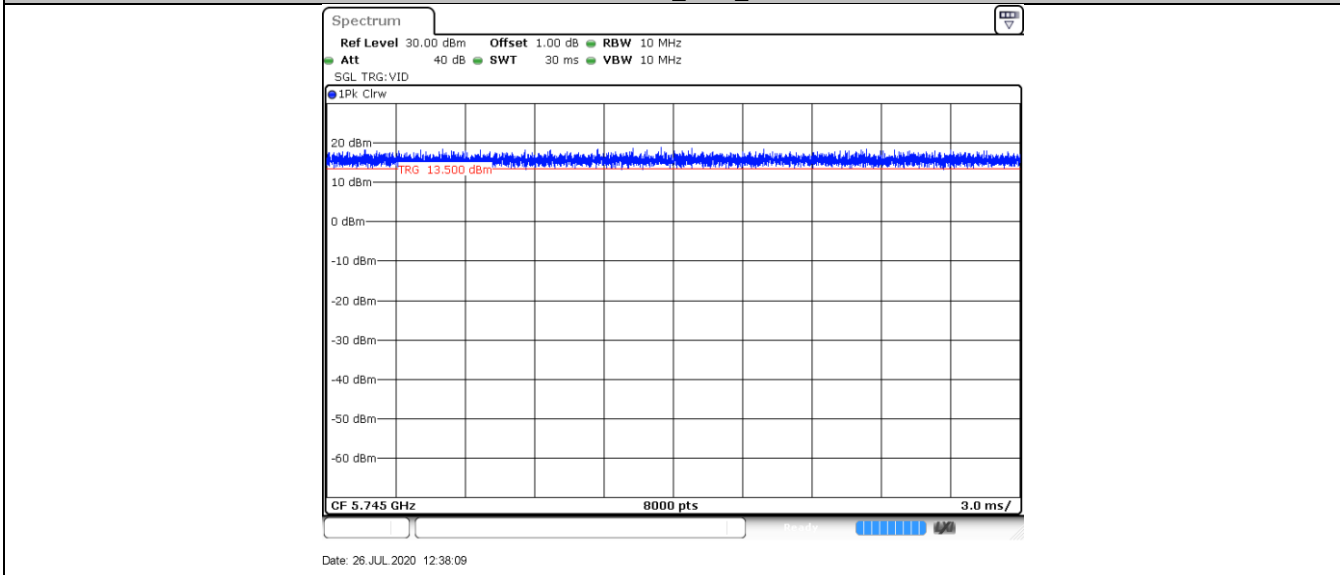
11N20SISO_Ant1_5280



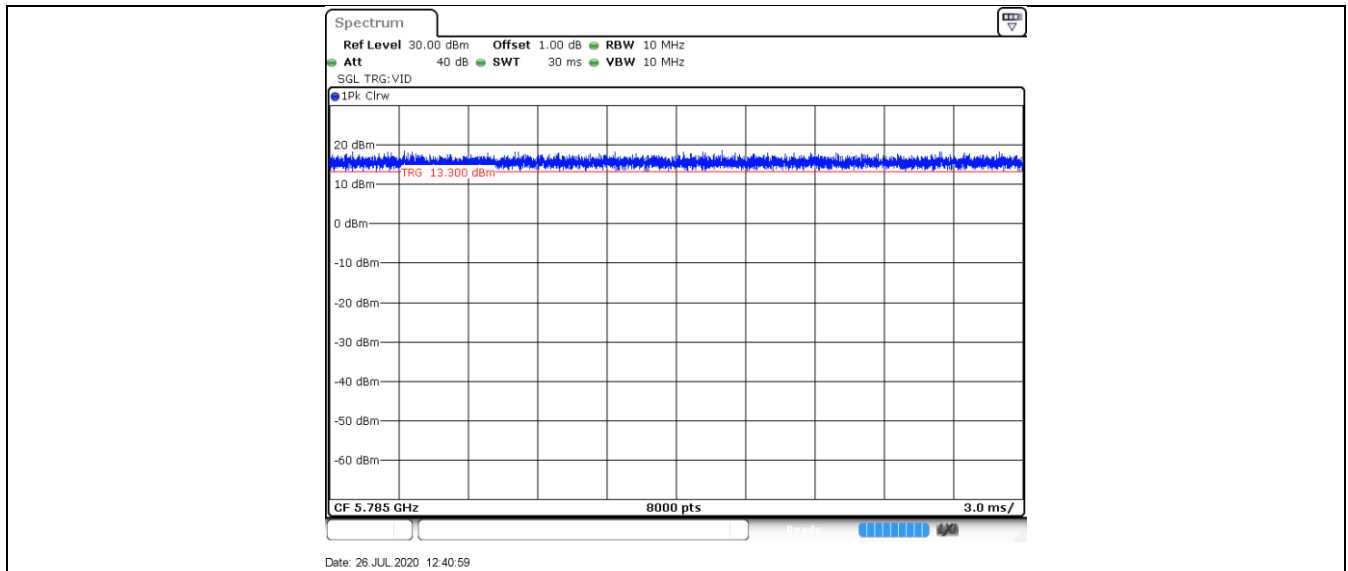
11N20SISO_Ant1_5320



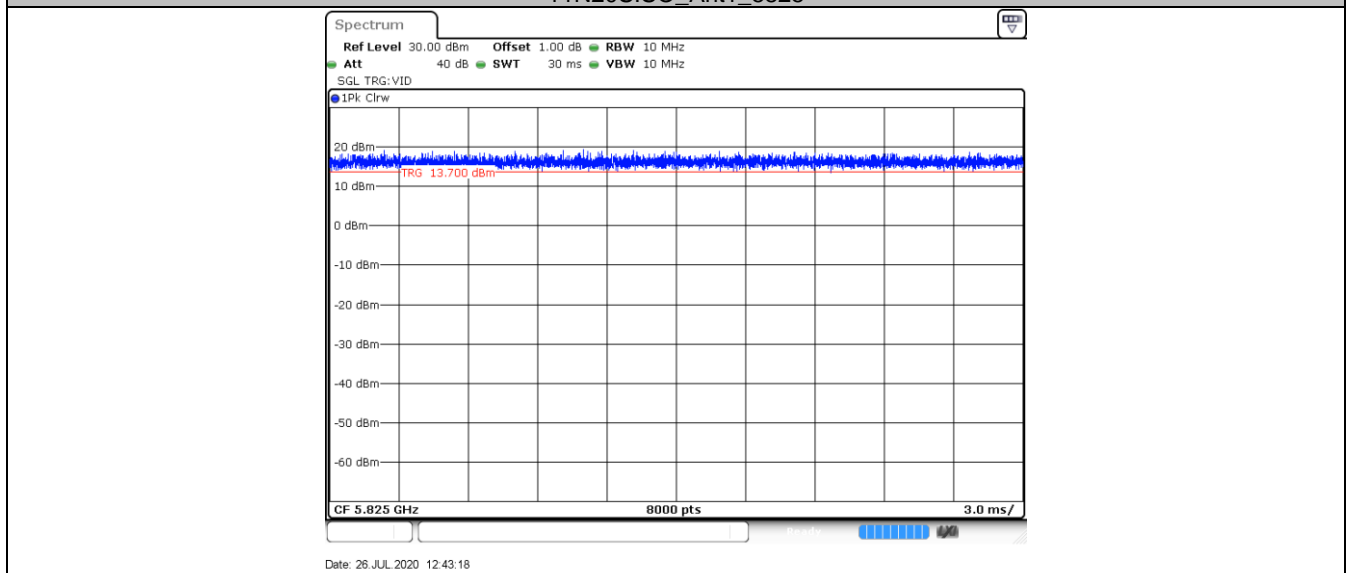
11N20SISO_Ant1_5745



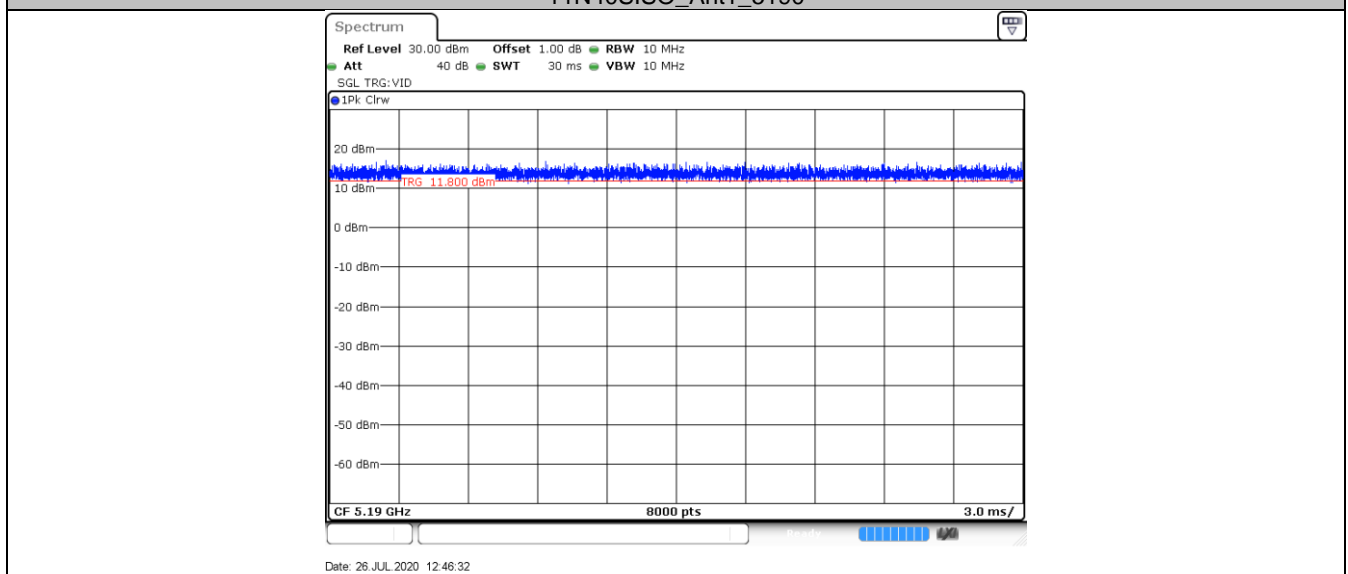
11N20SISO_Ant1_5785



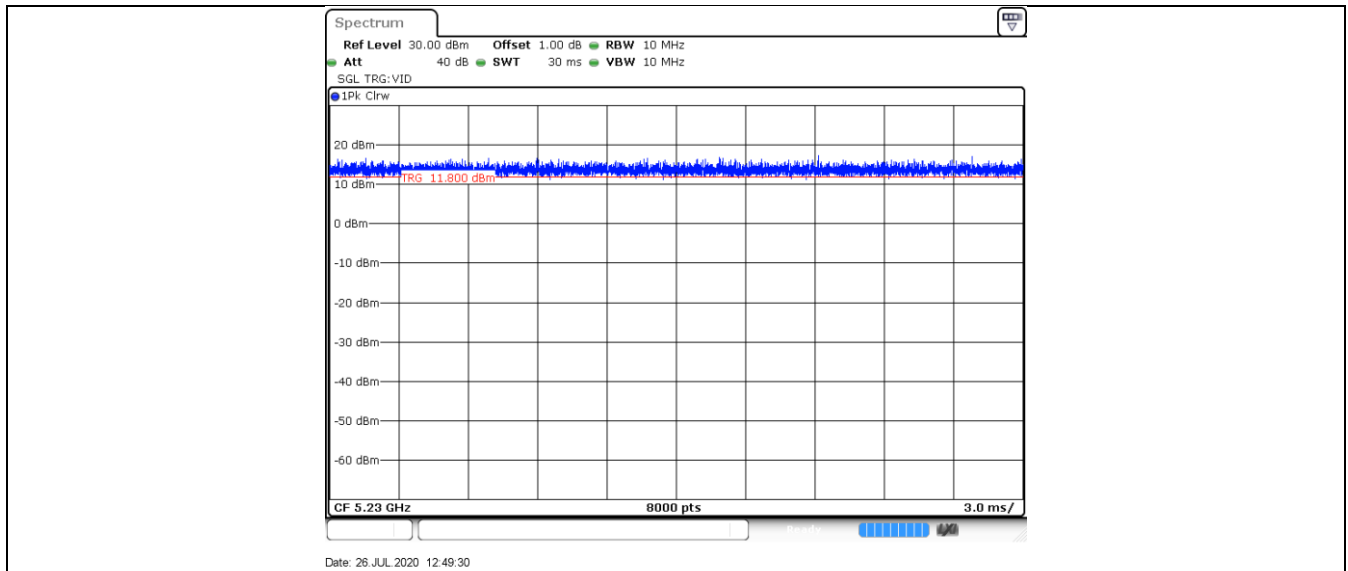
11N20SISO_Ant1_5825



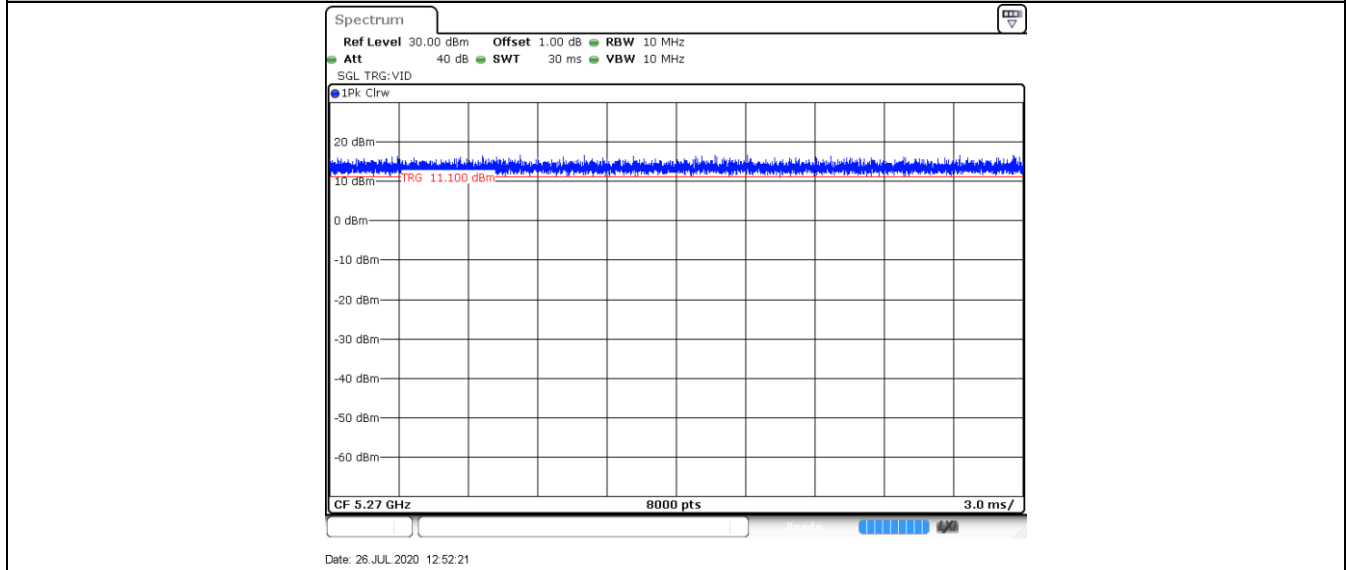
11N40SISO_Ant1_5190



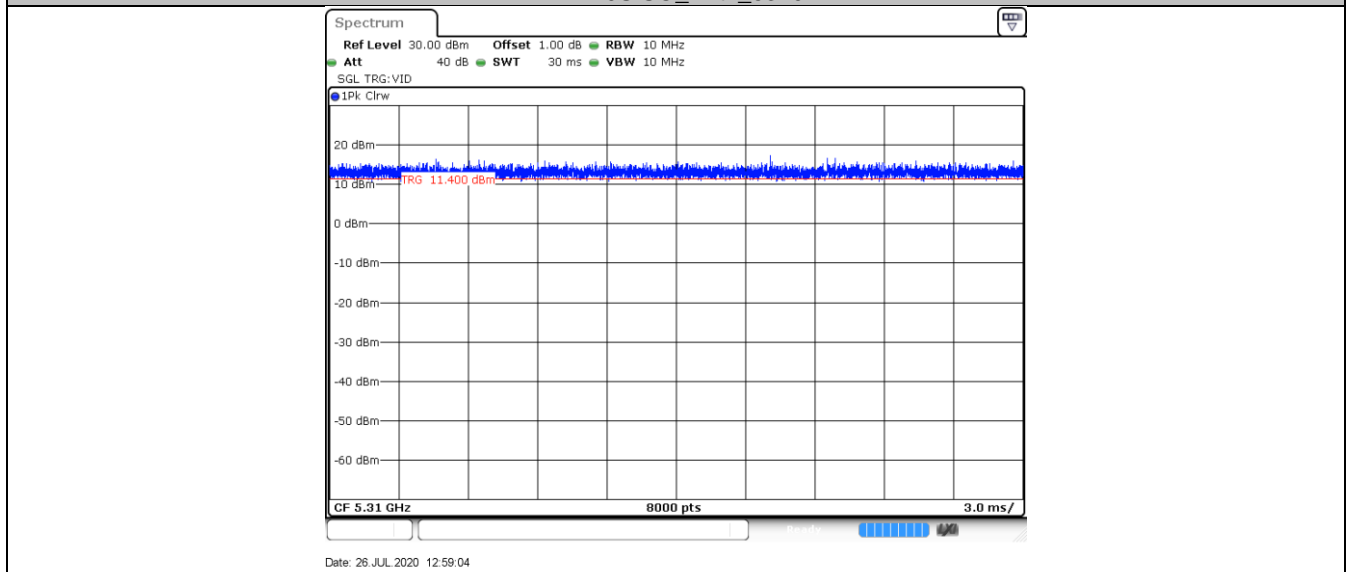
11N40SISO_Ant1_5230



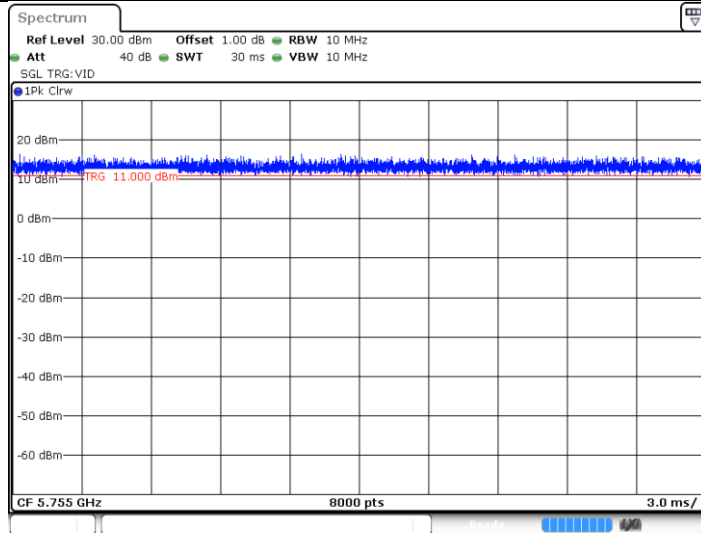
11N40SISO_Ant1_5270



11N40SISO_Ant1_5310

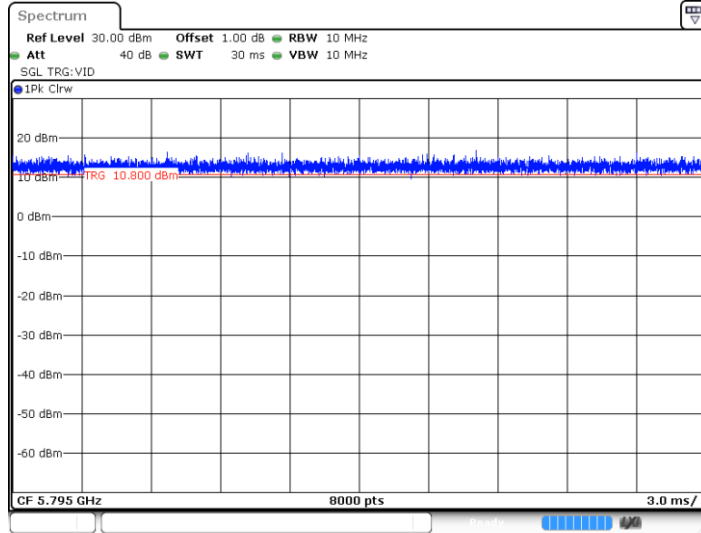


11N40SISO_Ant1_5755



Date: 26 JUL 2020 13:04:21

11N40SISO_Ant1_5795



Date: 26 JUL 2020 13:07:09



9.8 Frequencies Stability

Test Method

1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
2. Set Centre Frequency of the channel under test.
3. Set Detector PEAK
4. Set RBW: 10KHz, VBW: 3RBW
5. Set Span: Encompass the entire emissions bandwidth (EBW) of the signal.
6. Allow the trace to Slavebilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

User manual temperature is 5°C to 40°C, normal Temperature is +20°C.

Limit: 20ppm

Test Results (All conditions and all modes were performed, only list Worst-Case in the report)

Remark: NV is normal Voltage: 6.0Vdc, HV is High Voltage: 6.5Vdc, LV is Low Voltage: 4.2Vdc, NT is normal Temperature: +20°C.

TestMode	Antenna	Channel	Voltage			Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)					
11N20SISO	Ant1	5180	NV	NT		10000	1.930502	20	PASS
			LV	NT		9000	1.737452	20	PASS
			HV	NT		8000	1.544402	20	PASS
		5200	NV	NT		9000	1.730769	20	PASS
			LV	NT		9000	1.730769	20	PASS
			HV	NT		9000	1.730769	20	PASS
		5240	NV	NT		8000	1.526718	20	PASS
			LV	NT		8000	1.526718	20	PASS
			HV	NT		8000	1.526718	20	PASS
		5260	NV	NT		9000	1.711027	20	PASS
			LV	NT		9000	1.711027	20	PASS
			HV	NT		10000	1.901141	20	PASS
		5280	NV	NT		9000	1.704545	20	PASS
			LV	NT		9000	1.704545	20	PASS
			HV	NT		8000	1.515152	20	PASS
		5320	NV	NT		8000	1.503759	20	PASS
			LV	NT		9000	1.691729	20	PASS
			HV	NT		8000	1.503759	20	PASS
		5745	NV	NT		10000	1.740644	20	PASS
			LV	NT		10000	1.740644	20	PASS
			HV	NT		10000	1.740644	20	PASS
		5785	NV	NT		10000	1.728608	20	PASS
			LV	NT		10000	1.728608	20	PASS
			HV	NT		9000	1.555748	20	PASS
		5825	NV	NT		11000	1.888412	20	PASS
			LV	NT		9000	1.545064	20	PASS
			HV	NT		10000	1.716738	20	PASS
11N40SISO	Ant1	5190	NV	NT		9000	1.734104	20	PASS
			LV	NT		9000	1.734104	20	PASS
			HV	NT		7000	1.348748	20	PASS
		5230	NV	NT		8000	1.529637	20	PASS
			LV	NT		7000	1.338432	20	PASS
			HV	NT		8000	1.529637	20	PASS



		5270	NV	NT	9000	1.70778	20	PASS
			LV	NT	8000	1.518027	20	PASS
			HV	NT	9000	1.70778	20	PASS
		5310	NV	NT	10000	1.883239	20	PASS
			LV	NT	9000	1.694915	20	PASS
			HV	NT	9000	1.694915	20	PASS
		5755	NV	NT	10000	1.737619	20	PASS
			LV	NT	9000	1.563858	20	PASS
			HV	NT	10000	1.737619	20	PASS
		5795	NV	NT	9000	1.553063	20	PASS
			LV	NT	10000	1.725626	20	PASS
			HV	NT	11000	1.898188	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11N20SISO	Ant1	5180	NV	-30	8000	1.544402	20	PASS
			NV	-20	9000	1.737452	20	PASS
			NV	-10	10000	1.930502	20	PASS
			NV	0	9000	1.737452	20	PASS
			NV	10	8000	1.544402	20	PASS
			NV	20	9000	1.737452	20	PASS
			NV	30	9000	1.737452	20	PASS
			NV	40	9000	1.737452	20	PASS
		5200	NV	50	10000	1.930502	20	PASS
			NV	-30	8000	1.538462	20	PASS
			NV	-20	7000	1.346154	20	PASS
			NV	-10	9000	1.730769	20	PASS
			NV	0	9000	1.730769	20	PASS
			NV	10	9000	1.730769	20	PASS
			NV	20	8000	1.538462	20	PASS
			NV	30	8000	1.538462	20	PASS
		5240	NV	40	8000	1.538462	20	PASS
			NV	50	9000	1.730769	20	PASS
			NV	-30	8000	1.526718	20	PASS
			NV	-20	9000	1.717557	20	PASS
			NV	-10	9000	1.717557	20	PASS
			NV	0	8000	1.526718	20	PASS
			NV	10	8000	1.526718	20	PASS
			NV	20	8000	1.526718	20	PASS
		5260	NV	30	9000	1.717557	20	PASS
			NV	40	9000	1.717557	20	PASS
			NV	50	10000	1.908397	20	PASS
			NV	-30	8000	1.520913	20	PASS
			NV	-20	9000	1.711027	20	PASS
			NV	-10	9000	1.711027	20	PASS
			NV	0	9000	1.711027	20	PASS
			NV	10	8000	1.520913	20	PASS
		5280	NV	20	10000	1.901141	20	PASS
			NV	30	8000	1.520913	20	PASS
			NV	40	9000	1.711027	20	PASS
			NV	50	9000	1.711027	20	PASS
			NV	-30	9000	1.704545	20	PASS
			NV	-20	8000	1.515152	20	PASS
			NV	-10	8000	1.515152	20	PASS
			NV	0	8000	1.515152	20	PASS
		5320	NV	10	9000	1.704545	20	PASS
			NV	20	9000	1.704545	20	PASS
			NV	30	9000	1.704545	20	PASS
			NV	40	9000	1.704545	20	PASS
			NV	50	10000	1.893939	20	PASS
			NV	-30	9000	1.691729	20	PASS
			NV	-20	9000	1.691729	20	PASS
			NV	-10	8000	1.503759	20	PASS



			NV	0	8000	1.503759	20	PASS		
			NV	10	8000	1.503759	20	PASS		
			NV	20	10000	1.879699	20	PASS		
			NV	30	8000	1.503759	20	PASS		
			NV	40	9000	1.691729	20	PASS		
			NV	50	8000	1.503759	20	PASS		
		5745	NV	-30	10000	1.740644	20	PASS		
			NV	-20	10000	1.740644	20	PASS		
			NV	-10	9000	1.56658	20	PASS		
			NV	0	10000	1.740644	20	PASS		
			NV	10	10000	1.740644	20	PASS		
			NV	20	9000	1.56658	20	PASS		
			NV	30	10000	1.740644	20	PASS		
			NV	40	9000	1.56658	20	PASS		
		5785	NV	50	9000	1.56658	20	PASS		
			NV	-30	9000	1.555748	20	PASS		
			NV	-20	10000	1.728608	20	PASS		
			NV	-10	10000	1.728608	20	PASS		
			NV	0	10000	1.728608	20	PASS		
			NV	10	9000	1.555748	20	PASS		
			NV	20	10000	1.728608	20	PASS		
			NV	30	9000	1.555748	20	PASS		
		5825	NV	40	9000	1.555748	20	PASS		
			NV	50	10000	1.728608	20	PASS		
			NV	-30	10000	1.716738	20	PASS		
			NV	-20	9000	1.545064	20	PASS		
			NV	-10	8000	1.373391	20	PASS		
			NV	0	10000	1.716738	20	PASS		
			NV	10	9000	1.545064	20	PASS		
			NV	20	11000	1.888412	20	PASS		
		11N40SISO	Ant1	5190	NV	30	10000	1.716738	20	PASS
					NV	40	10000	1.716738	20	PASS
					NV	50	10000	1.716738	20	PASS
					NV	-30	9000	1.734104	20	PASS
					NV	-20	10000	1.926782	20	PASS
					NV	-10	8000	1.541426	20	PASS
					NV	0	9000	1.734104	20	PASS
					NV	10	9000	1.734104	20	PASS
				5230	NV	20	9000	1.734104	20	PASS
					NV	30	9000	1.734104	20	PASS
					NV	40	8000	1.541426	20	PASS
					NV	50	9000	1.734104	20	PASS
NV	-30				9000	1.720841	20	PASS		
NV	-20				8000	1.529637	20	PASS		
NV	-10	7000	1.338432		20	PASS				
NV	0	9000	1.720841		20	PASS				
5270	NV	10	9000	1.720841	20	PASS				
	NV	20	9000	1.720841	20	PASS				
	NV	30	9000	1.720841	20	PASS				
	NV	40	8000	1.529637	20	PASS				
	NV	50	9000	1.720841	20	PASS				
	NV	-30	8000	1.518027	20	PASS				
	NV	-20	9000	1.70778	20	PASS				
	NV	-10	9000	1.70778	20	PASS				
5310	NV	0	9000	1.70778	20	PASS				
	NV	10	8000	1.518027	20	PASS				
	NV	20	10000	1.897533	20	PASS				
	NV	30	9000	1.70778	20	PASS				
	NV	40	8000	1.518027	20	PASS				
	NV	50	9000	1.70778	20	PASS				
	NV	-30	8000	1.506591	20	PASS				
	NV	-20	8000	1.506591	20	PASS				
			NV	-10	9000	1.694915	20	PASS		
			NV	0	9000	1.694915	20	PASS		
			NV	0	9000	1.694915	20	PASS		



			NV	10	8000	1.506591	20	PASS
			NV	20	9000	1.694915	20	PASS
			NV	30	9000	1.694915	20	PASS
			NV	40	8000	1.506591	20	PASS
			NV	50	9000	1.694915	20	PASS
		5755	NV	-30	9000	1.563858	20	PASS
			NV	-20	10000	1.737619	20	PASS
			NV	-10	11000	1.911381	20	PASS
			NV	0	9000	1.563858	20	PASS
			NV	10	9000	1.563858	20	PASS
			NV	20	10000	1.737619	20	PASS
			NV	30	10000	1.737619	20	PASS
			NV	40	8000	1.390096	20	PASS
		5795	NV	50	9000	1.563858	20	PASS
			NV	-30	9000	1.553063	20	PASS
			NV	-20	10000	1.725626	20	PASS
			NV	-10	9000	1.553063	20	PASS
			NV	0	10000	1.725626	20	PASS
			NV	10	10000	1.725626	20	PASS
			NV	20	10000	1.725626	20	PASS
			NV	30	10000	1.725626	20	PASS
			NV	40	10000	1.725626	20	PASS
			NV	50	10000	1.725626	20	PASS

9.9 Dynamic Frequency Selection (DFS)

1、 General Test Condition

Parameters of EUT	
Frequency	5250 – 5350 MHz & 5470 – 5725 MHz
Operational Mode	Slave
Modulation:	OFDM
Channel Bandwidth:	20 MHz , 40 MHz, 80 MHz

Note: This device was functioned as a Slave device during the DFS

2、 Test requirement

The manufacturer shall whether the EUT is capable of operating as a master and a client. If the EUT is capable of operating in more than one operating mode then each operating mode shall be tested separately.

DFS Applicability

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
Uniform Spreading	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

DFS Applicability During Normal Operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Yes	Not required
Uniform Spreading	Yes	Yes	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

3、 Test Limited

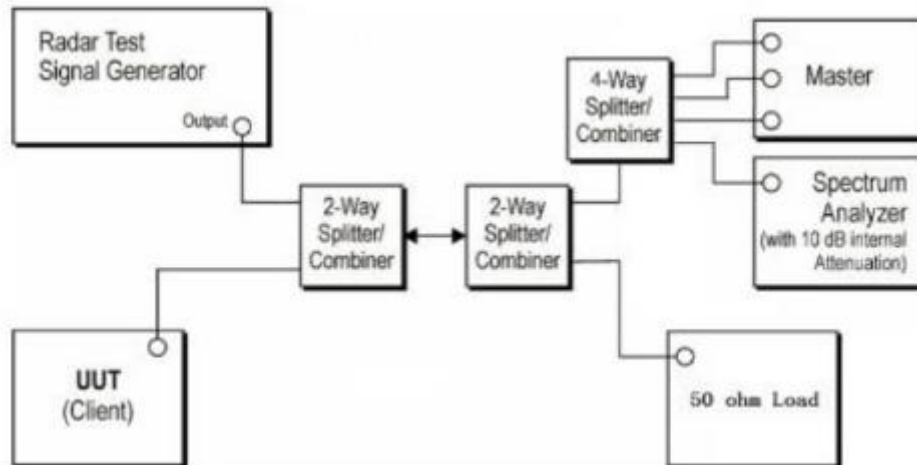
According to KDB 905462 D02 Table 4 DFS Response Requirement Values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel</i> move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

4、 Calibration of Radar Waveform

- (1) A 50ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master.
- (2) The interference Radar Detection Threshold Level is $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$ that had been taken into account the output power range and antenna gain.
- (3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3MHz. The spectrum analyzer had offset -1.5dB to compensate RF cable loss 1.5dB.
- (4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm}+3.7\text{dB}+1.5\text{dB}=-55.8\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

Conducted Calibration Setup:



Radar Waveform Calibration result:

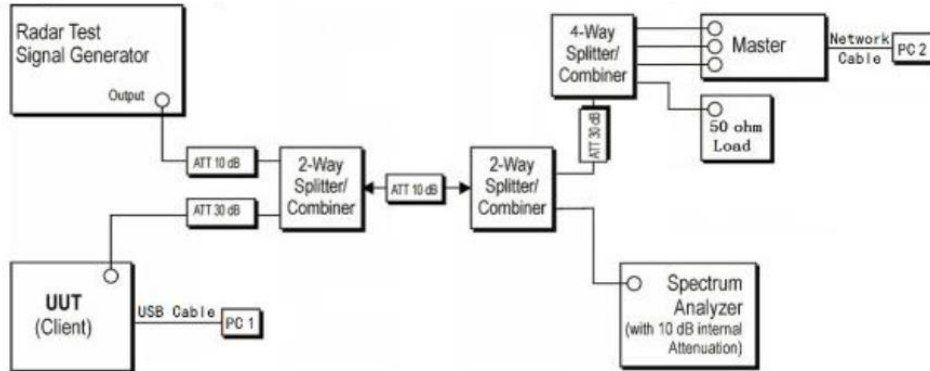
5、 Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period.

Block Diagram of test setup test procedure.

- (1) The Radar Pulse generator is setup to provide a pulse at frequency that the master and client are operating, A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
- (2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -55.8dBm at the antenna of the master device.
- (3) A trigger is provided from the pulse generator to the DFS monitoring system in order to cMasterture the traffic and the occurrence of the radar pulse.
- (4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using test software in order to properly load the network for the entire period of the test.
- (5) When radar burst with a Level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection threshold +1dB.
- (6) Observer the transmissions of the EUT at the end of the radar Burst on the Operating channel. Measure and record the transmissions form the UUT during The observation time (channel move time). One 15 seconds plot is reported for the short pulse radar type 0. The plot for the short pulse radar burst. The channel move time will be calculated based on the zoom in 600ms plot of the short pulse radar type.
- (7) Measurement of the aggregate duration of the channel closed transmission time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell(3.0)=S(12000ms)/B(4000)$; where dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of channel closing transmission time is calculated by: $C(ms)=N \times Dwell(0.3ms)$; where C is the closing time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and dwell is the dwell time per bin.
- (8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

Test Setup:

Setup for client with injection at the master.



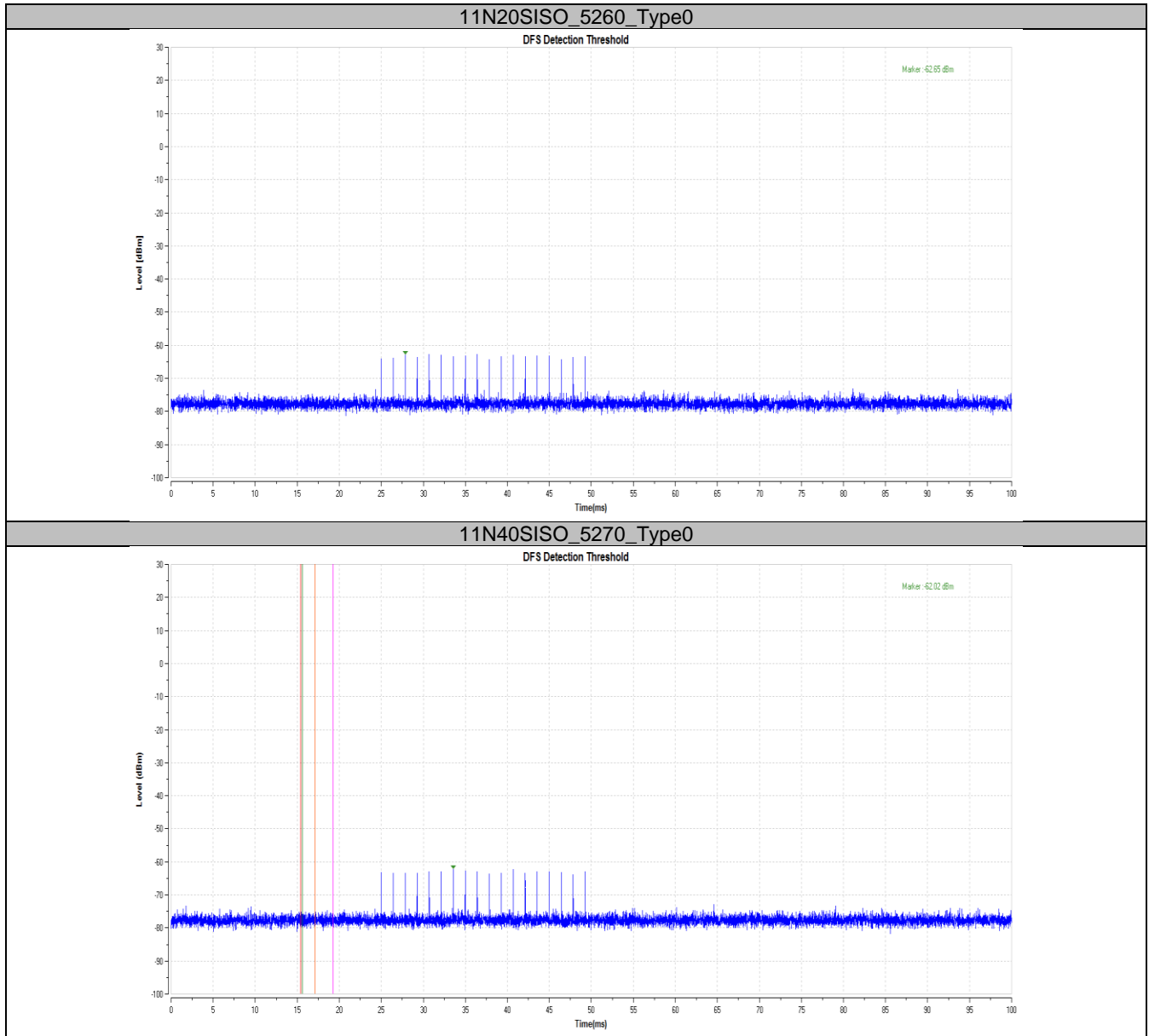
6、 Test Result

Clause	Test Parameter	Remarks	Pass/Fail
15.407	DFS Detection Threshold	No Applicable	N/A
15.407	Channel Availability Check time	No Applicable	N/A
15.407	Channel Move time	Applicable	Pass
15.407	Channel Closing Transmission Time	Applicable	Pass
15.407	Non-Occupancy Period	Applicable	Pass
15.407	Uniform Spreading	No Applicable	N/A
15.407	U-NII Detection Bandwidth	No Applicable	N/A

DFS Detection Thresholds

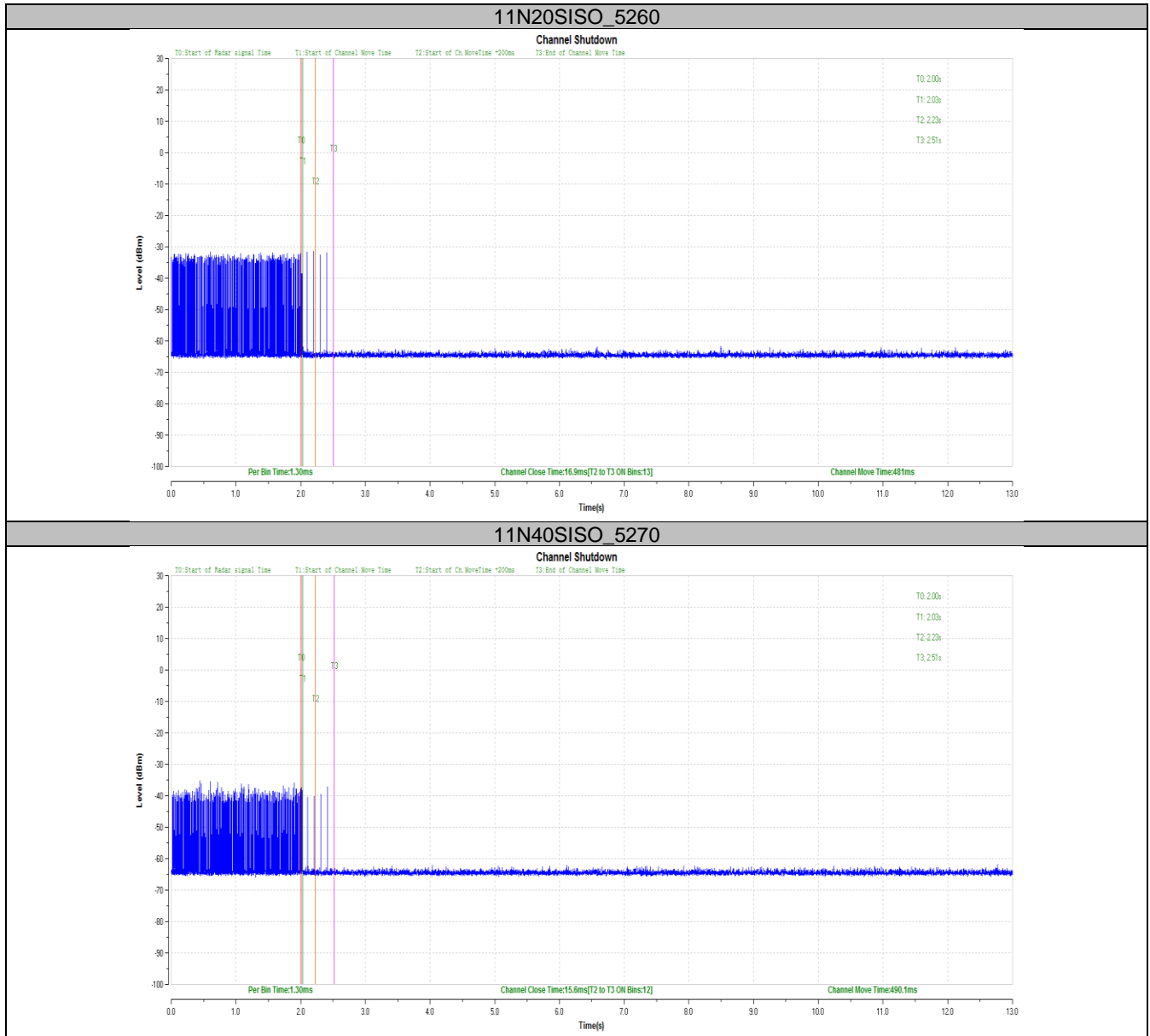
TestMode	Channel	Radar Type	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5260	Type0	-62.65	-59.50	PASS
11N40SISO	5270	Type0	-62.02	-59.50	PASS

Test Graphs



TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11N20SISO	5260	16.9	60	481	10000	PASS
11N40SISO	5270	15.6	60	490.1	10000	PASS

Test Graphs



10 Test Equipment List

List of Test Instruments

Radiated Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2021-6-29
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2021-2-24
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2021-6-15
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2020-12-14
Pre-amplifier	Rohde & Schwarz	SCU 08F2	68-4-29-19-004	08400018	1	2020-12-14
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2021-8-5
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2021-7-30
3m Semi-anechoic chamber	TDK	9X6X6	68-4-90-19-006	----	3	2022-12-29
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.0 2	N/A	N/A

TS8997 Test System

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Generator	Rohde & Schwarz	SMB100A	68-4-48-14-001	108272	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMBV100A	68-4-48-18-001	262825	1	2021-6-21
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	68-4-48-18-003	101251	1	2021-6-21
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2021-6-21
Vector Signal Generator	Rohde & Schwarz	SMU 200A	68-4-48-14-003	105324	1	2021-6-22
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	68-4-93-14-003	101226/100851	1	2021-6-21
Power Splitter	Weinschel	1580	68-4-85-14-001	SC319	1	2021-7-16
10dB Attenuator	Weinschel	4M-10	68-4-81-14-003	43152	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-004	DNF-001	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-005	DNF-002	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-006	DNF-003	1	2021-6-21
10dB Attenuator	R&S	DNF	68-4-81-14-007	DNF-004	1	2021-6-21
Test software	Rohde & Schwarz	EMC32	68-4-48-14-003-A10	Version 10.60.10	N/A	N/A
Test software	Tonscend	System for BT/WIFI	68-4-74-14-006-A13	Version 2.6.77.0518	N/A	N/A
Shielding Room	TDK	TS8997	68-4-90-19-003	----	1	2020-11-07

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 30MHz-1000MHz	Horizontal: 4.70dB; Vertical: 4.67dB;
Uncertainty for Radiated Emission in new 3m chamber (68-4-90-19-006) 1000MHz-18000MHz	Horizontal: 4.65dB; Vertical: 4.63dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 5.05dB; Vertical: 5.04dB;
Uncertainty for Conducted RF test	Power level test involved: 1.16dB Frequency test involved: 0.16×10^{-7}

THE END