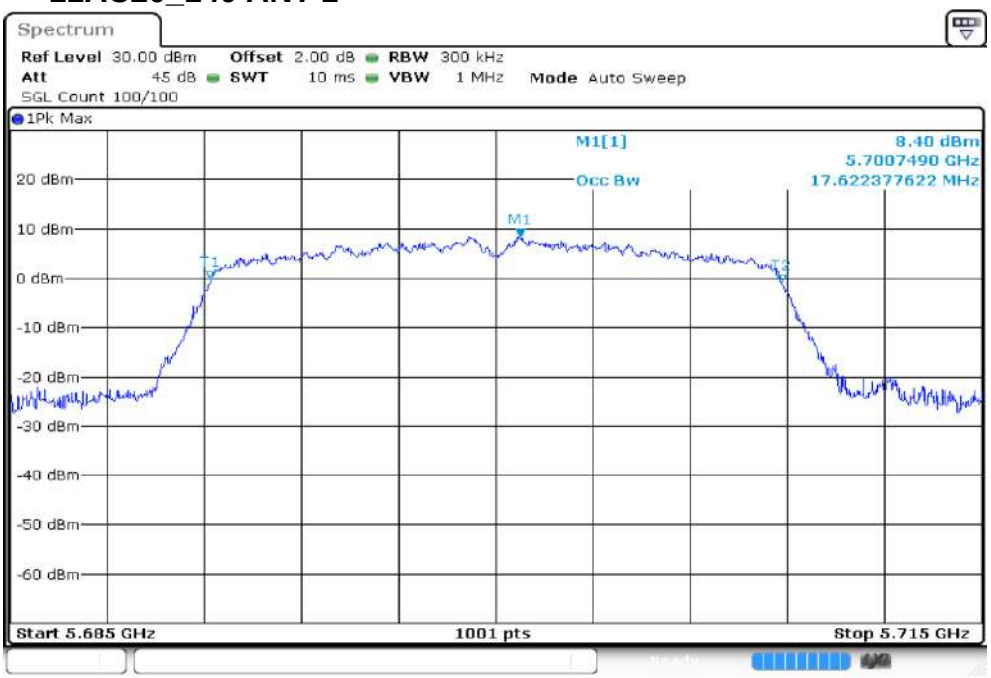
4.7.2.30 11AC20_140 ANT 1



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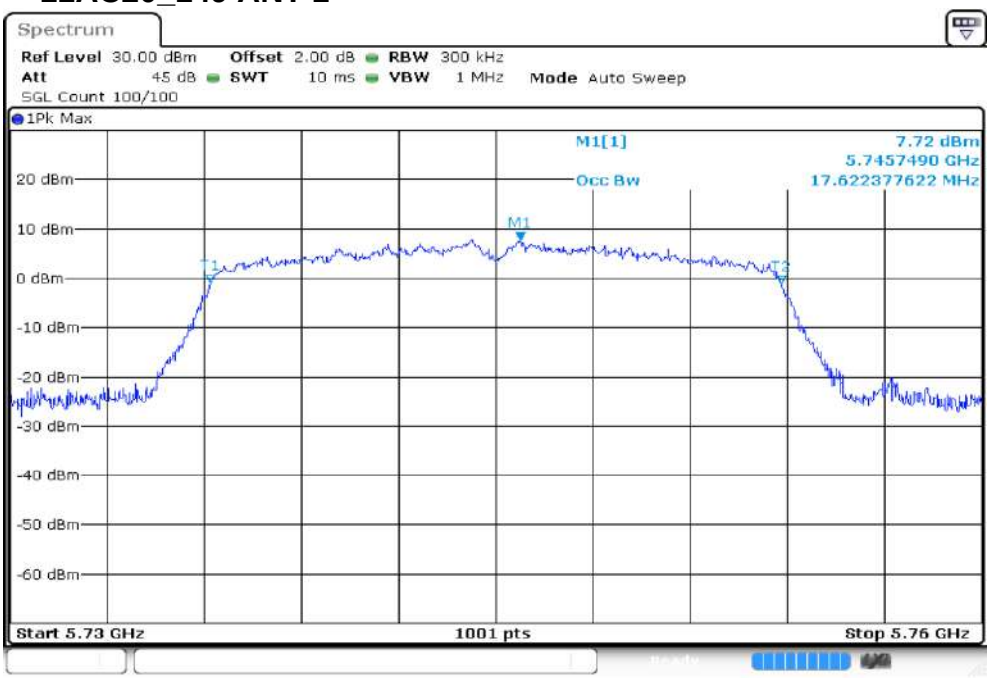

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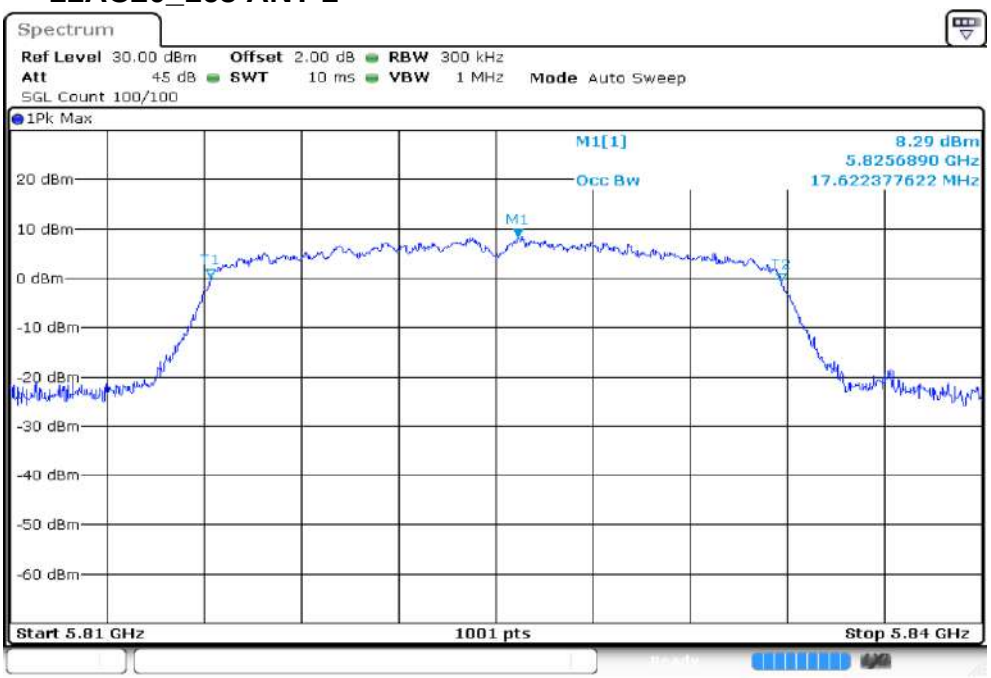
4.7.2.32 11AC20_165 ANT 1



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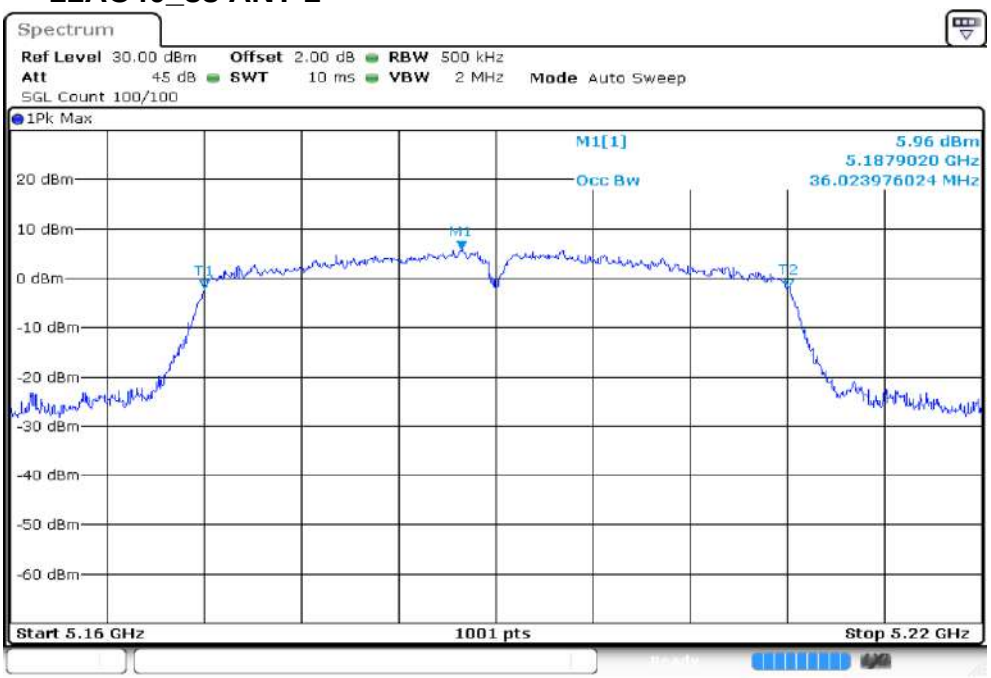

Date: 12.DEC.2019 07:52:12

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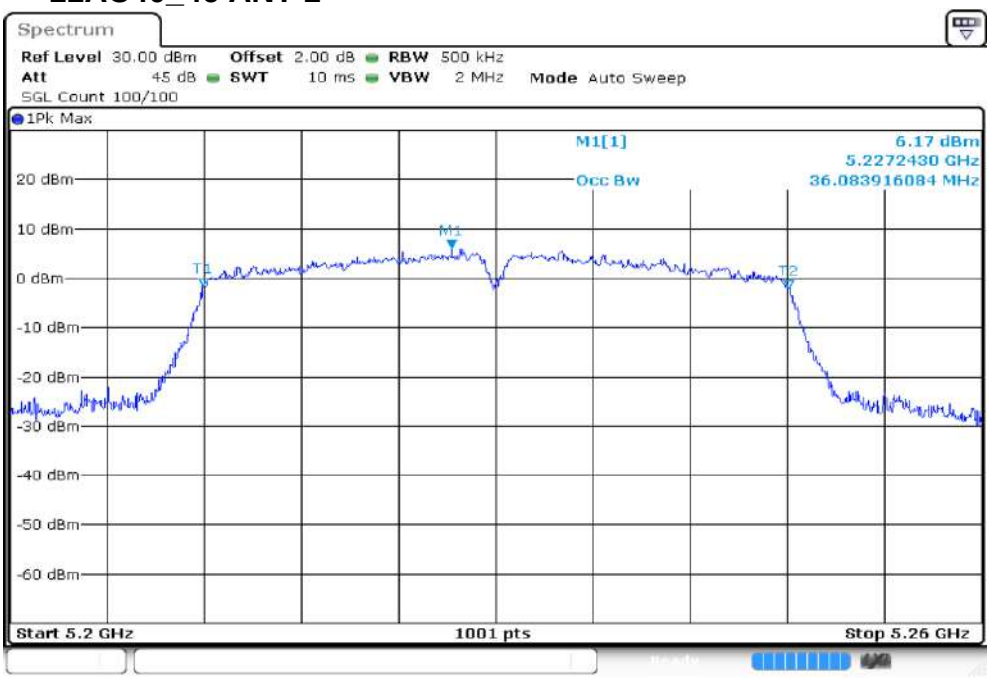
4.7.2.34 11AC40_46 ANT 1



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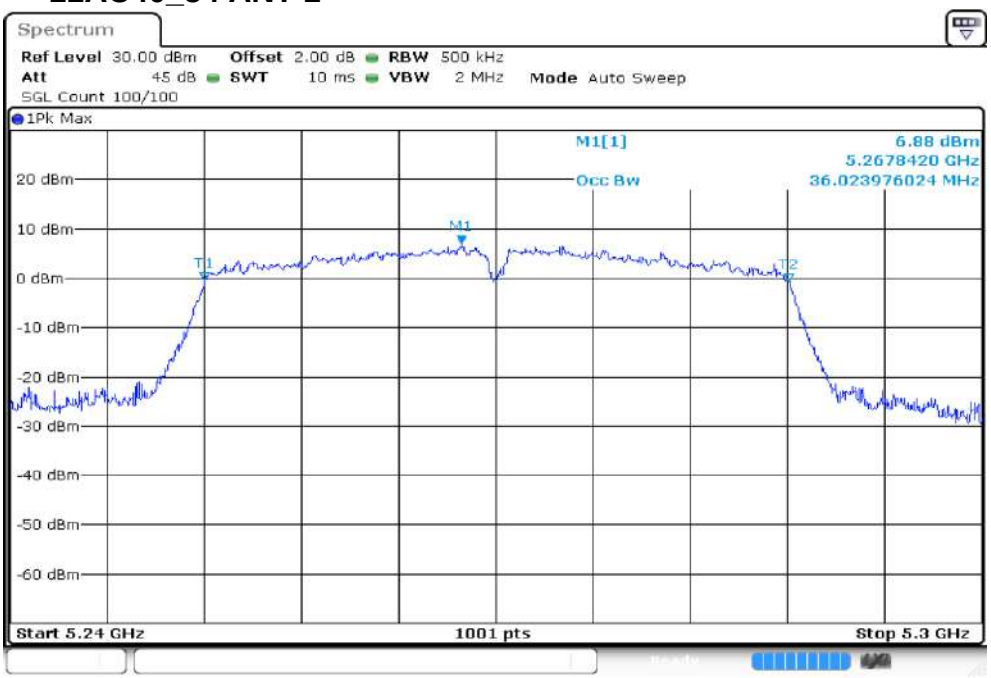
4.7.2.35 11AC40_54 ANT 1



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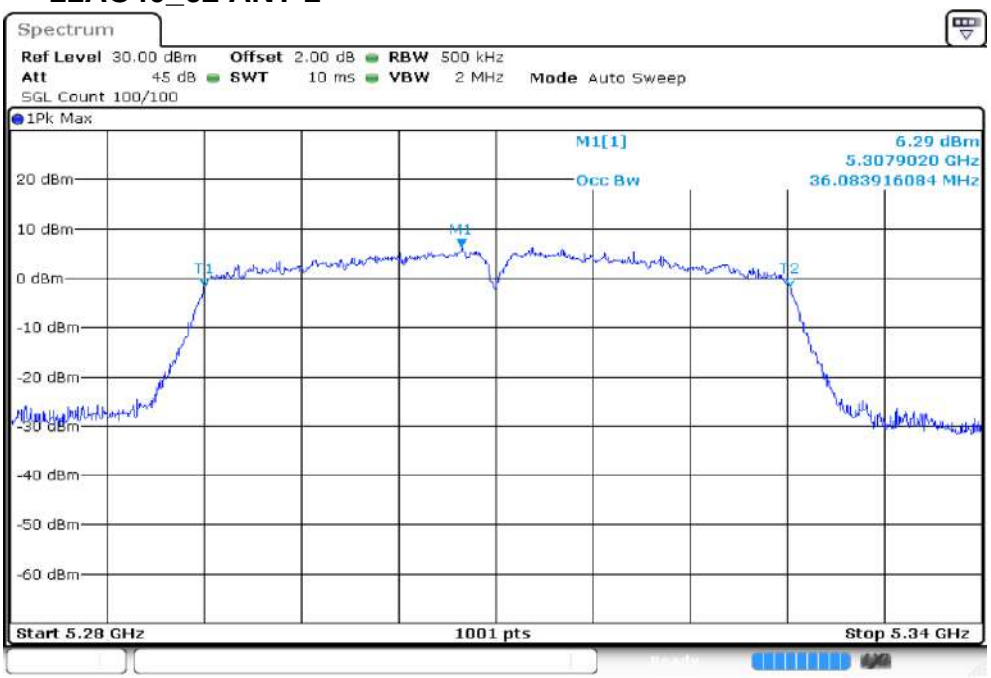
4.7.2.36 11AC40_62 ANT 1



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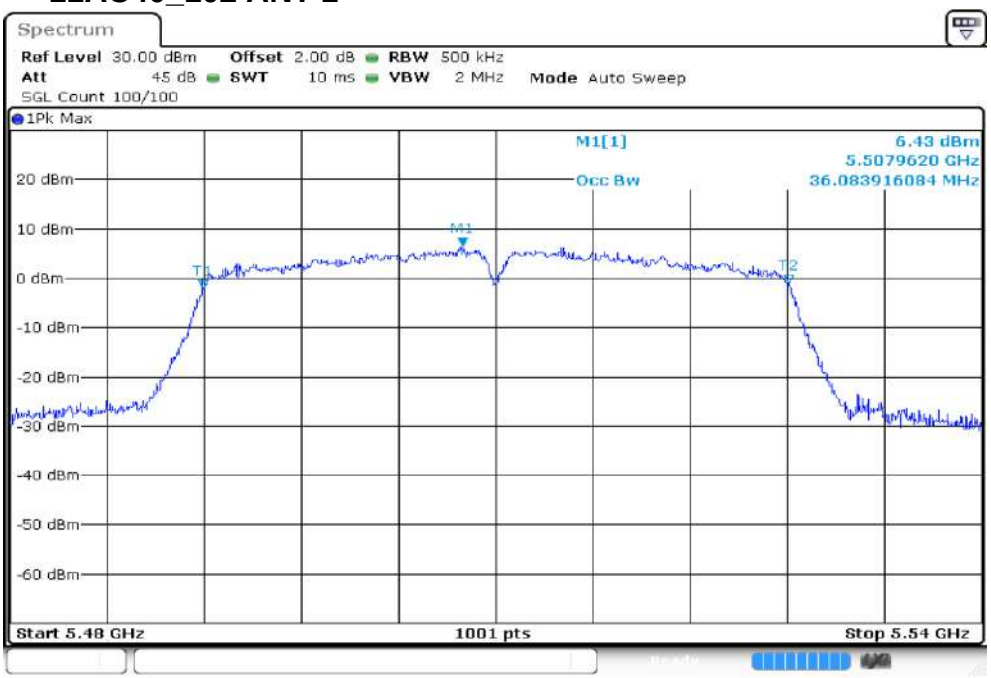
4.7.2.37 11AC40_102 ANT 1



Date: 12.DEC.2019 07:58:59

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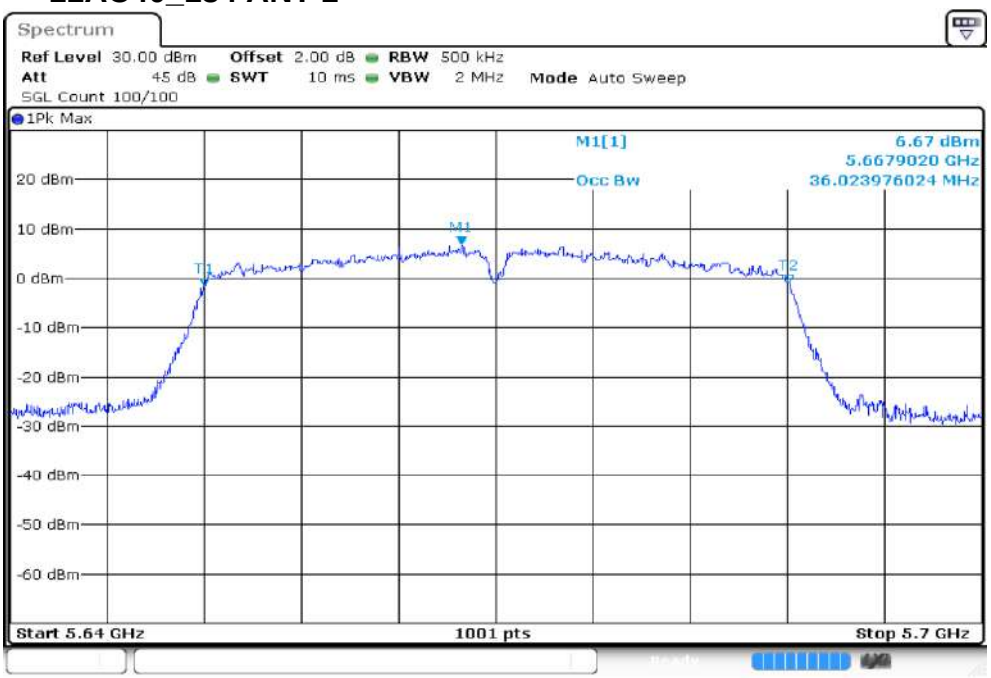
4.7.2.38 11AC40_134 ANT 1



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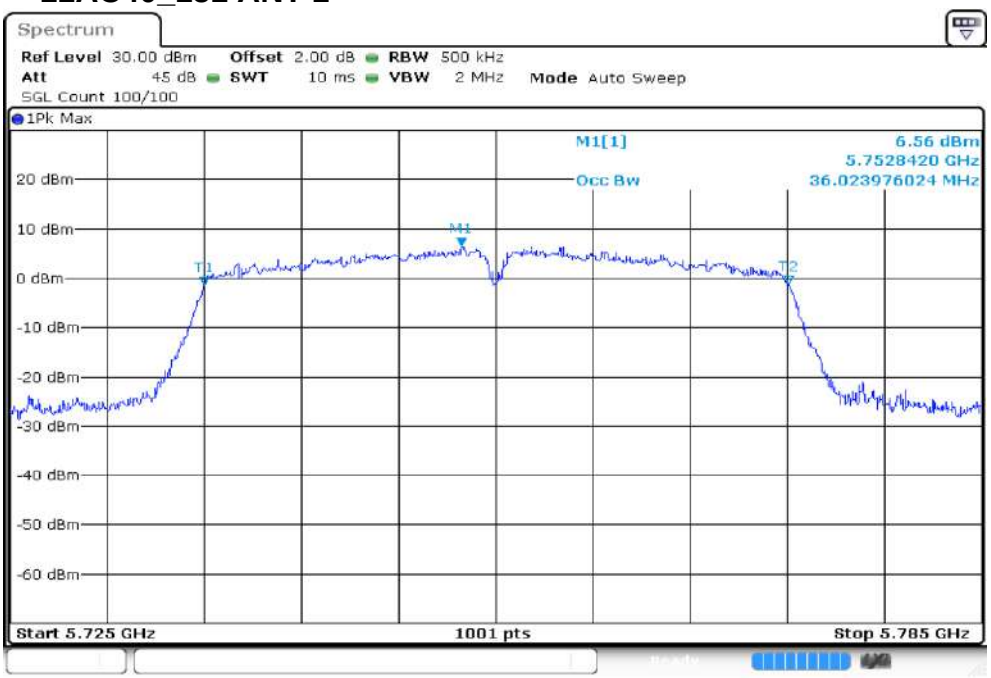

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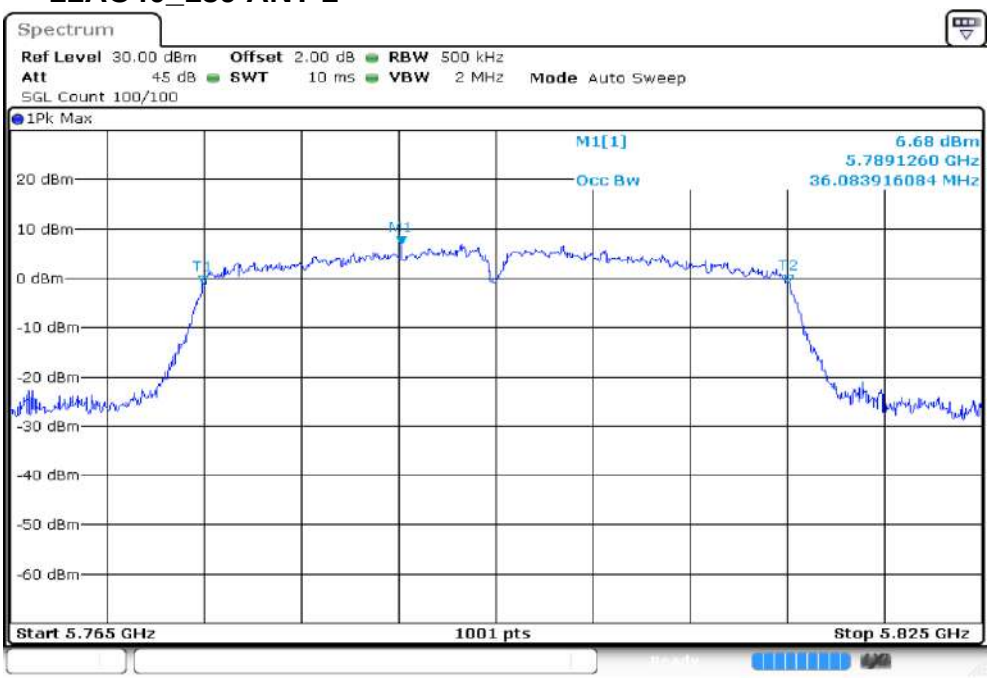
4.7.2.40 11AC40_159 ANT 1



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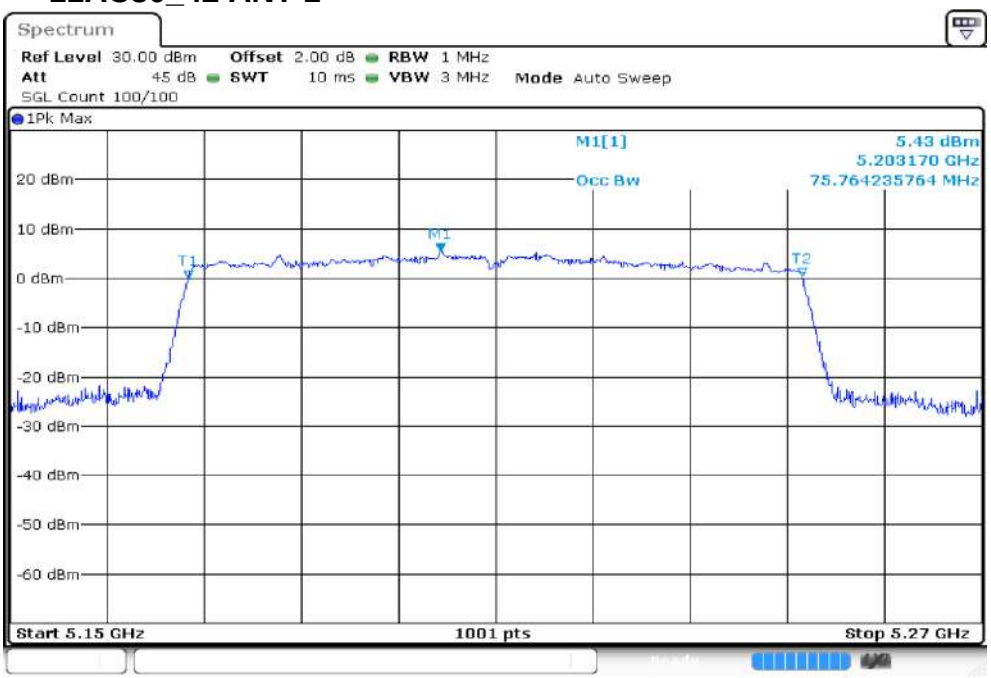
4.7.2.41 11AC80_42 ANT 1



Date: 12.DEC.2019 08:06:04

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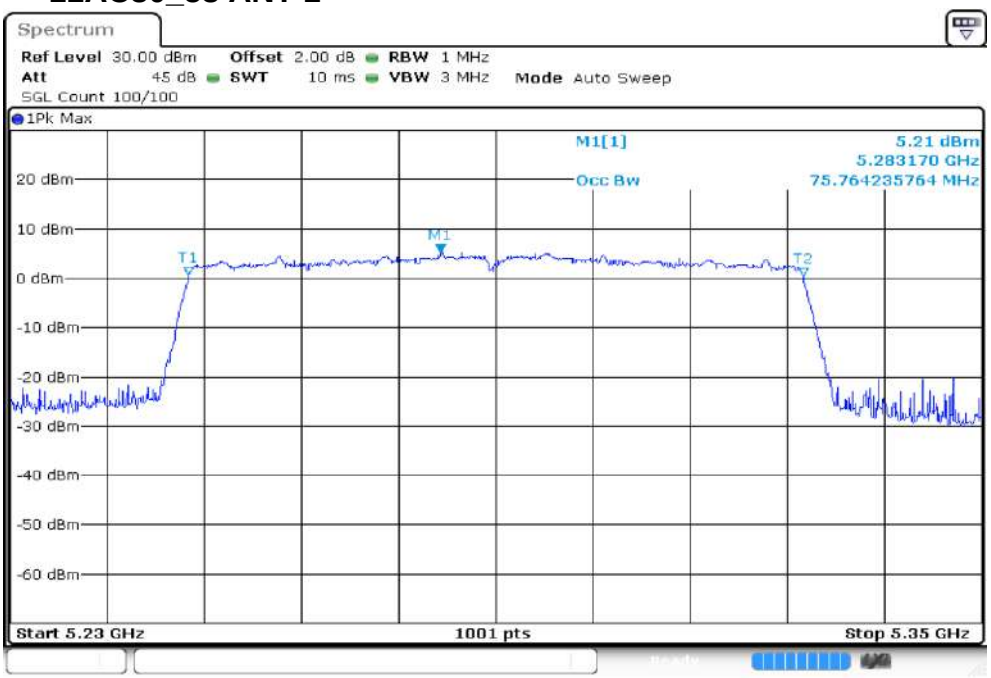
4.7.2.42 11AC80_58 ANT 1



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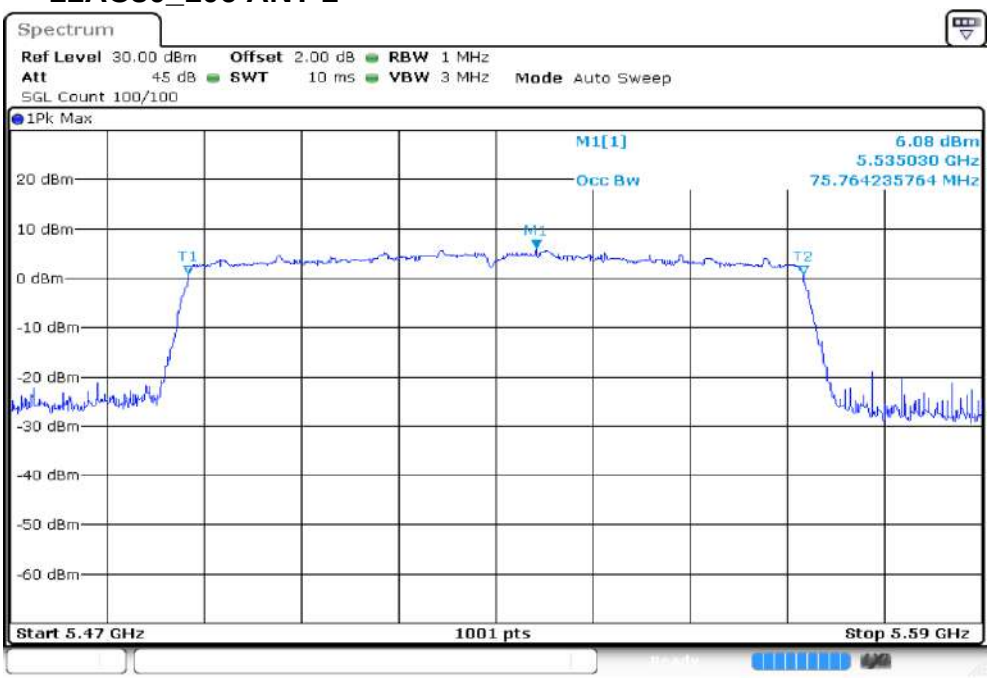

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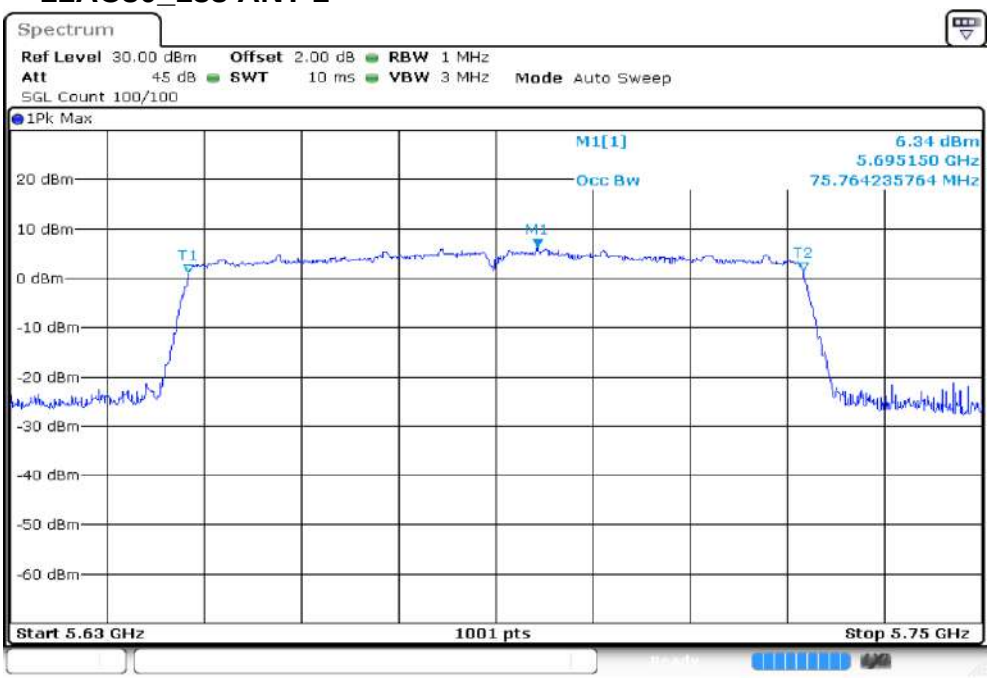
4.7.2.44 11AC80_138 ANT 1



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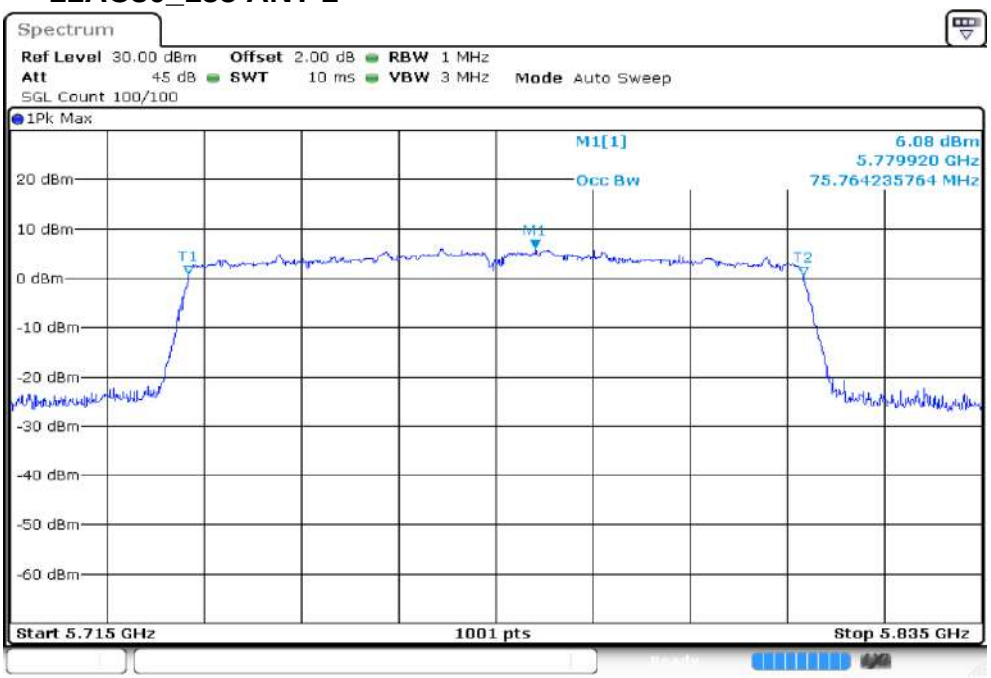
4.7.2.45 11AC80_155 ANT 1



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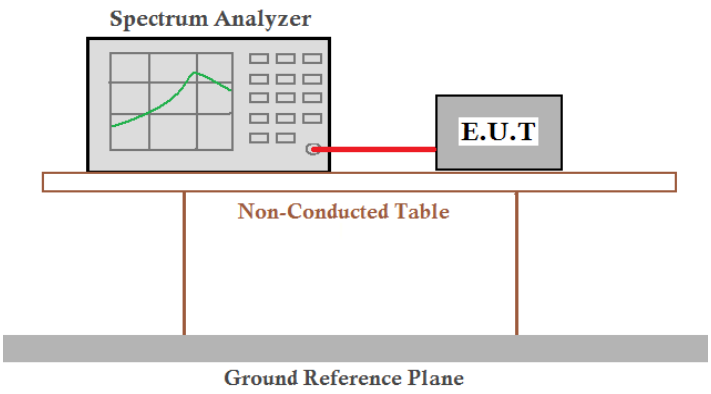
4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	

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4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	7.94	dBm/MHz	PASS
	48	5240	ANT 1	7.46	dBm/MHz	PASS
	52	5260	ANT 1	7.57	dBm/MHz	PASS
	64	5320	ANT 1	8.37	dBm/MHz	PASS
	100	5500	ANT 1	8.06	dBm/MHz	PASS
	140	5700	ANT 1	8.62	dBm/MHz	PASS
	149	5745	ANT 1	6.91	dBm/500KHz	PASS
	165	5825	ANT 1	7.30	dBm/500KHz	PASS
11N20	36	5180	ANT 1	6.74	dBm/MHz	PASS
	48	5240	ANT 1	5.93	dBm/MHz	PASS
	52	5260	ANT 1	6.35	dBm/MHz	PASS
	64	5320	ANT 1	6.39	dBm/MHz	PASS
	100	5500	ANT 1	7.14	dBm/MHz	PASS
	140	5700	ANT 1	7.36	dBm/MHz	PASS
	149	5745	ANT 1	6.02	dBm/500KHz	PASS
	165	5825	ANT 1	5.71	dBm/500KHz	PASS
11N40	38	5190	ANT 1	3.22	dBm/MHz	PASS
	46	5230	ANT 1	2.99	dBm/MHz	PASS
	54	5270	ANT 1	3.23	dBm/MHz	PASS
	62	5310	ANT 1	3.39	dBm/MHz	PASS
	102	5510	ANT 1	3.95	dBm/MHz	PASS
	134	5670	ANT 1	4.82	dBm/MHz	PASS
	151	5755	ANT 1	3.01	dBm/500KHz	PASS
	159	5795	ANT 1	2.77	dBm/500KHz	PASS
11AC20	36	5180	ANT 1	6.54	dBm/MHz	PASS
	48	5240	ANT 1	6.30	dBm/MHz	PASS
	52	5260	ANT 1	6.24	dBm/MHz	PASS
	64	5320	ANT 1	6.82	dBm/MHz	PASS
	100	5500	ANT 1	7.33	dBm/MHz	PASS
	140	5700	ANT 1	7.36	dBm/MHz	PASS
	149	5745	ANT 1	5.65	dBm/500KHz	PASS
	165	5825	ANT 1	6.77	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	2.86	dBm/MHz	PASS
	46	5230	ANT 1	3.05	dBm/MHz	PASS
	54	5270	ANT 1	3.97	dBm/MHz	PASS
	62	5310	ANT 1	3.18	dBm/MHz	PASS
	102	5510	ANT 1	3.52	dBm/MHz	PASS
	134	5670	ANT 1	3.26	dBm/MHz	PASS
	151	5755	ANT 1	2.72	dBm/500KHz	PASS
	159	5795	ANT 1	2.70	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-1.02	dBm/MHz	PASS
	58	5290	ANT 1	-1.10	dBm/MHz	PASS

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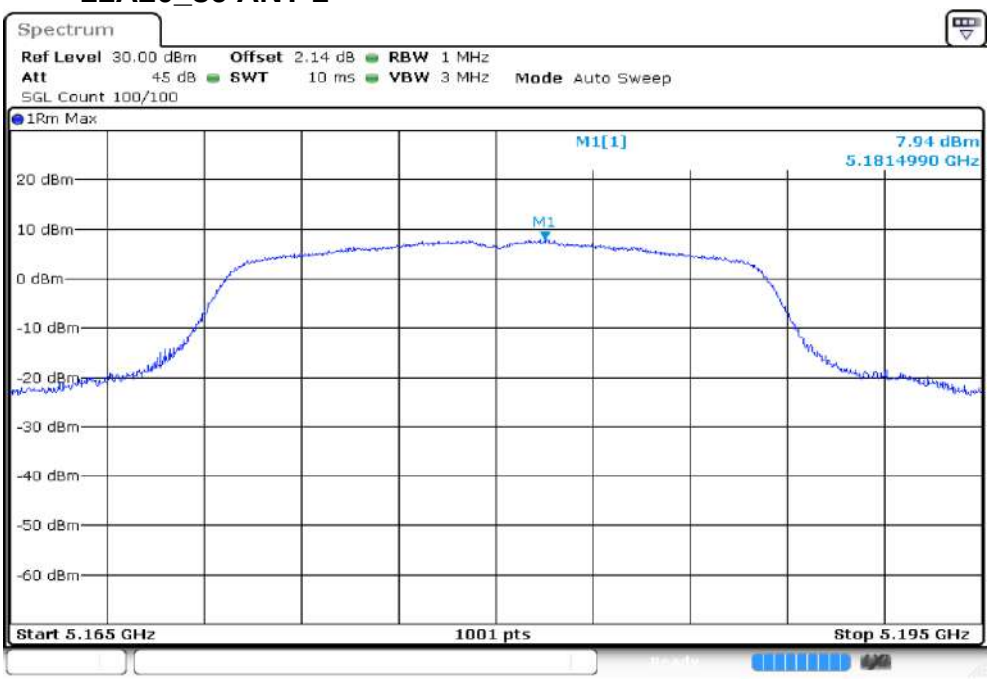
	106	5530	ANT 1	-0.76	dBm/MHz	PASS
	138	5690	ANT 1	-0.62	dBm/MHz	PASS
	155	5775	ANT 1	-1.61	dBm/500KHz	PASS

4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



Date: 12.DEC.2019 06:47:16

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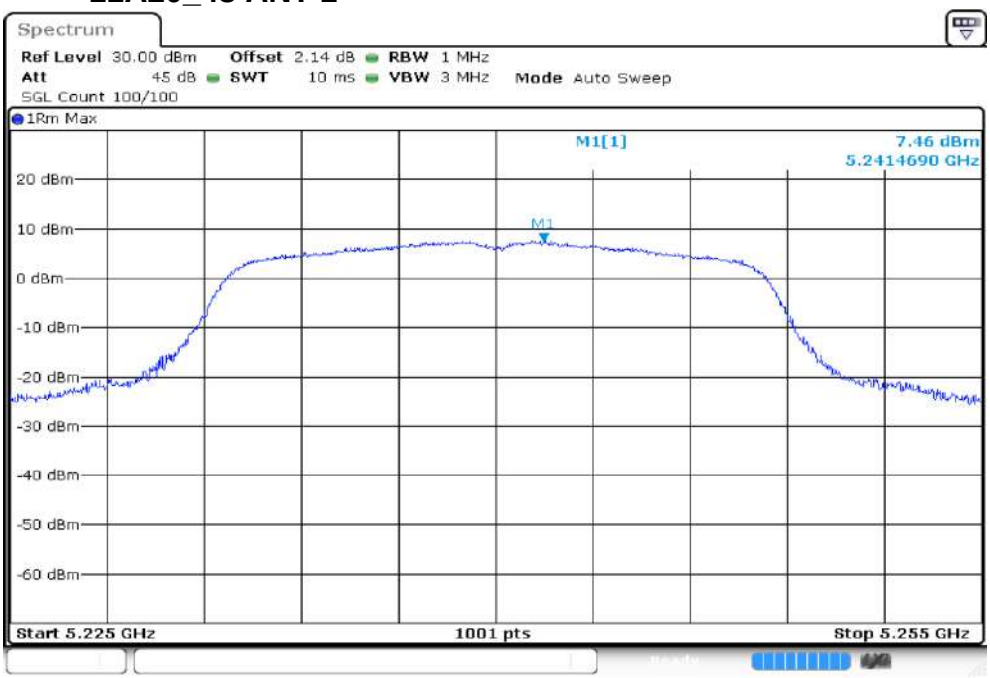
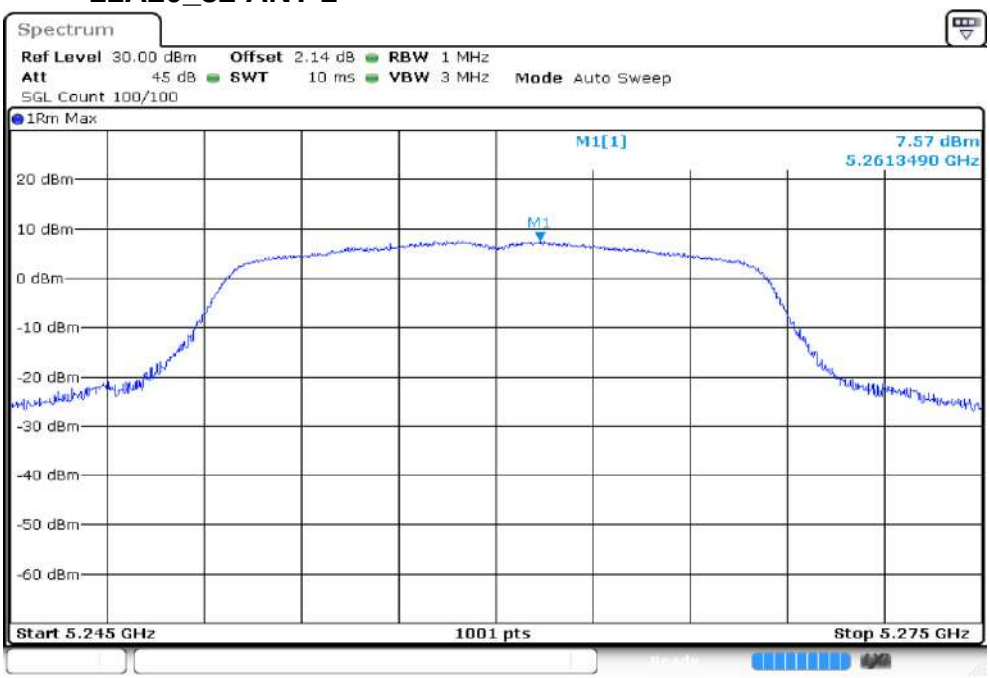
4.8.2.2 11A20_48 ANT 1



Date: 12.DEC.2019 06:49:24

4.8.2.3 11A20_52 ANT 1



Date: 12.DEC.2019 06:55:22

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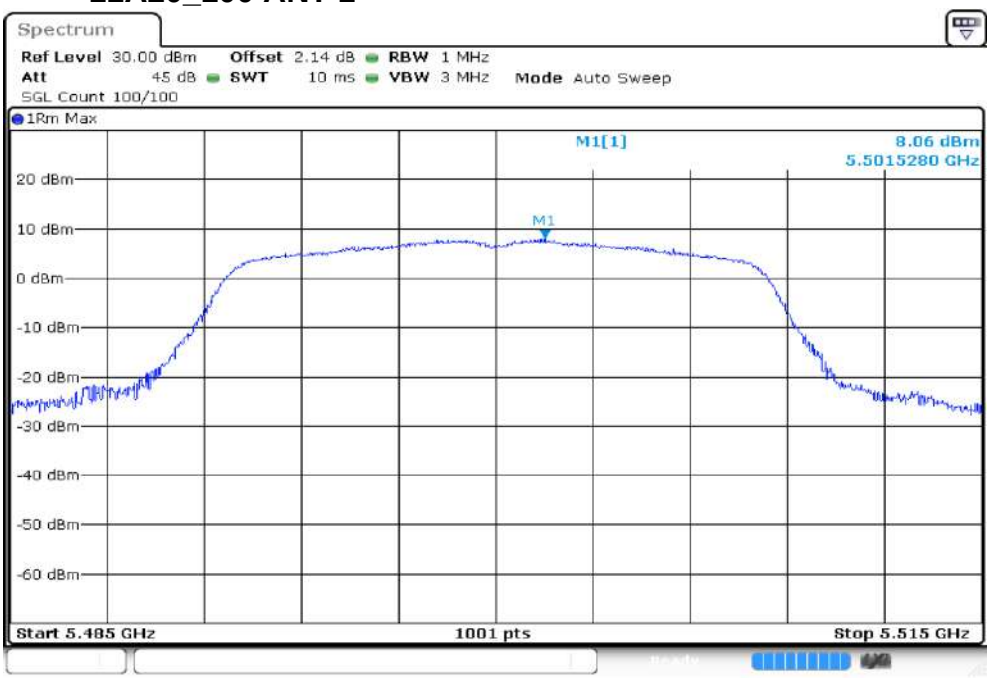
4.8.2.4 11A20_64 ANT 1

Date: 12.DEC.2019 06:56:48

4.8.2.5 11A20_100 ANT 1



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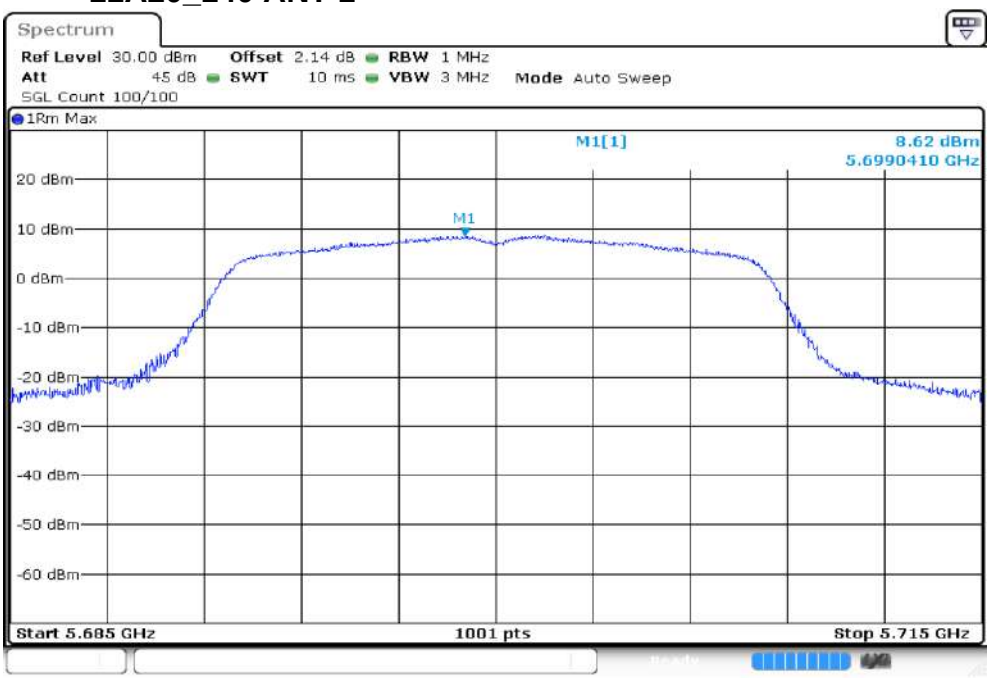
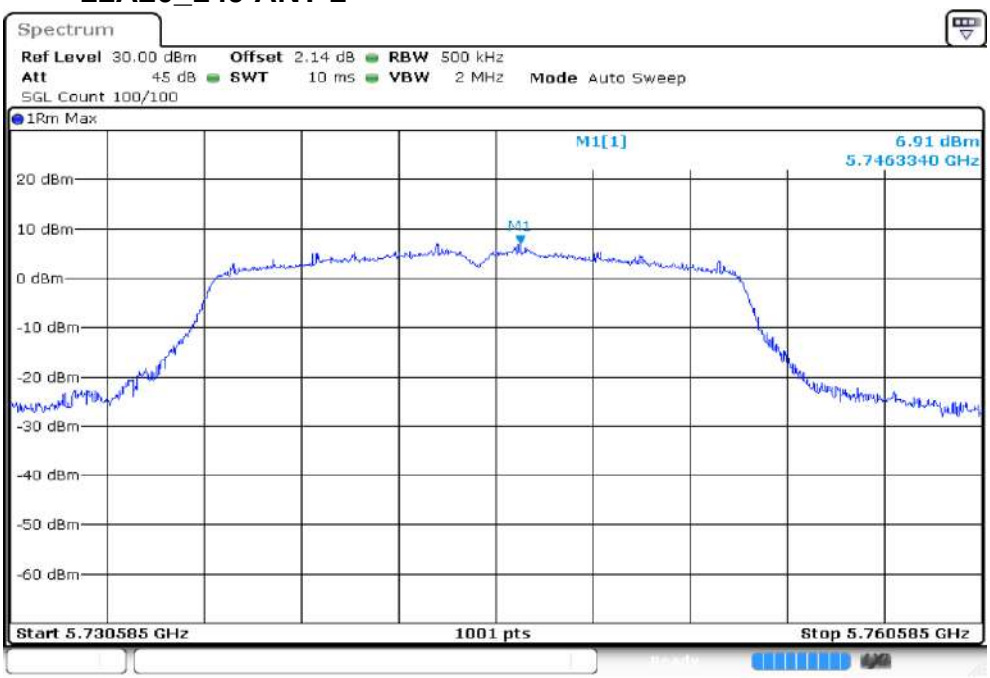
4.8.2.6 11A20_140 ANT 1



Date: 12.DEC.2019 07:02:21

4.8.2.7 11A20_149 ANT 1



Date: 12.DEC.2019 07:06:07

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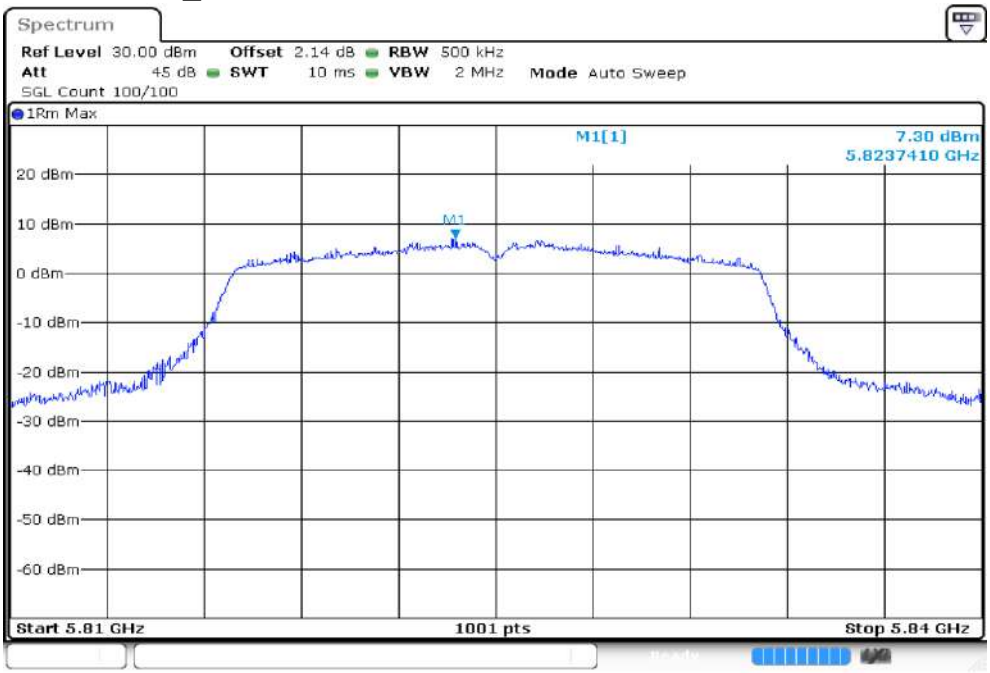
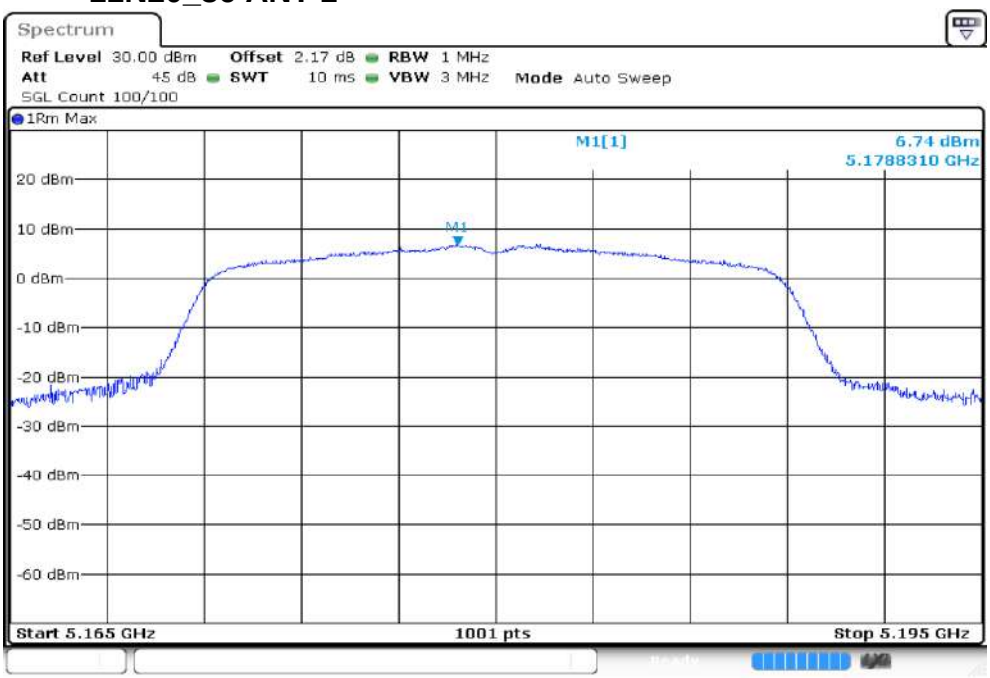
4.8.2.8 11A20_165 ANT 1



Date: 12.DEC.2019 07:07:19

4.8.2.9 11N20_36 ANT 1



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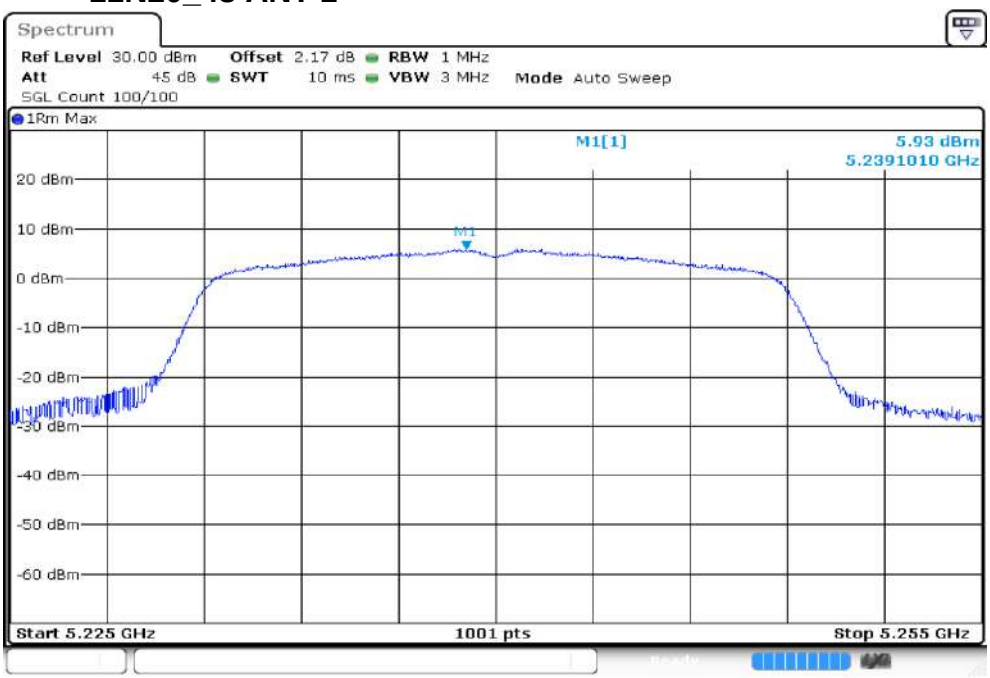
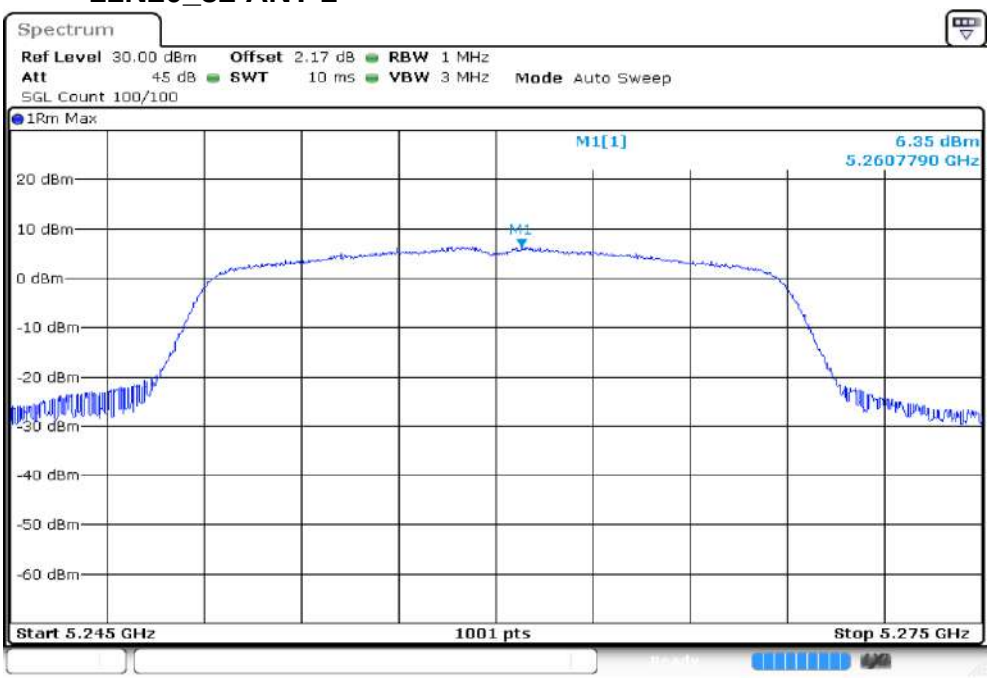
4.8.2.10 11N20_48 ANT 1



Date: 12.DEC.2019 07:11:47

4.8.2.11 11N20_52 ANT 1



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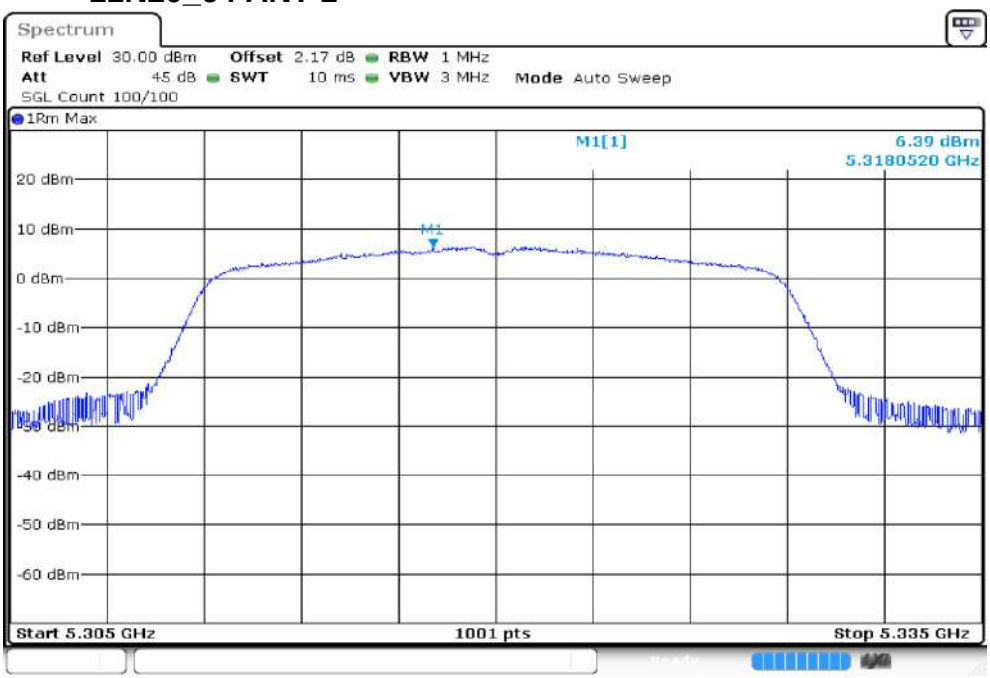
4.8.2.12 11N20_64 ANT 1



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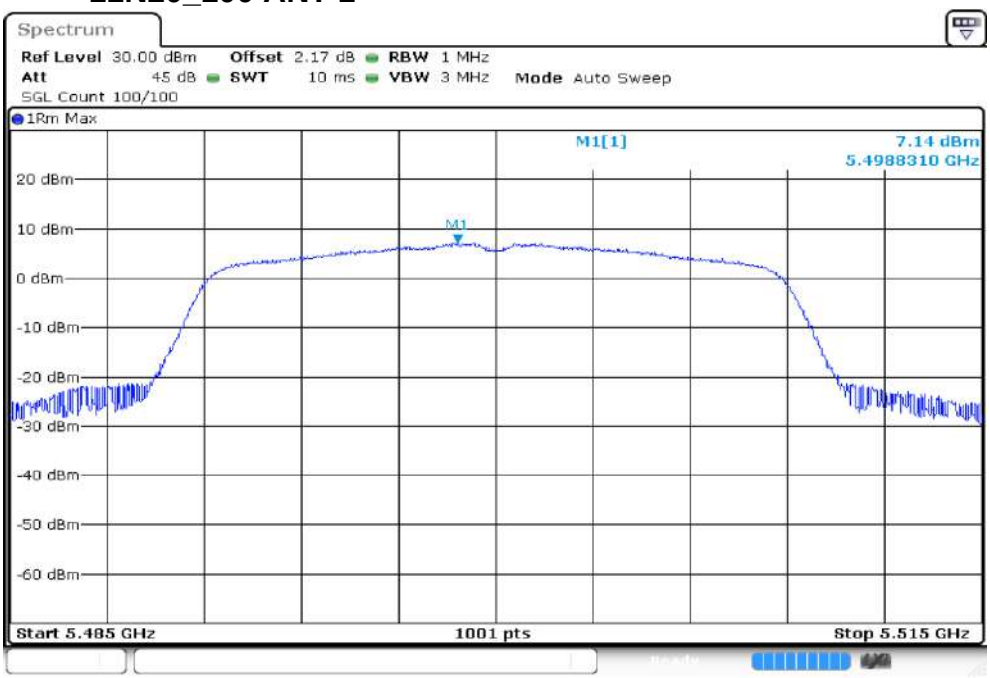

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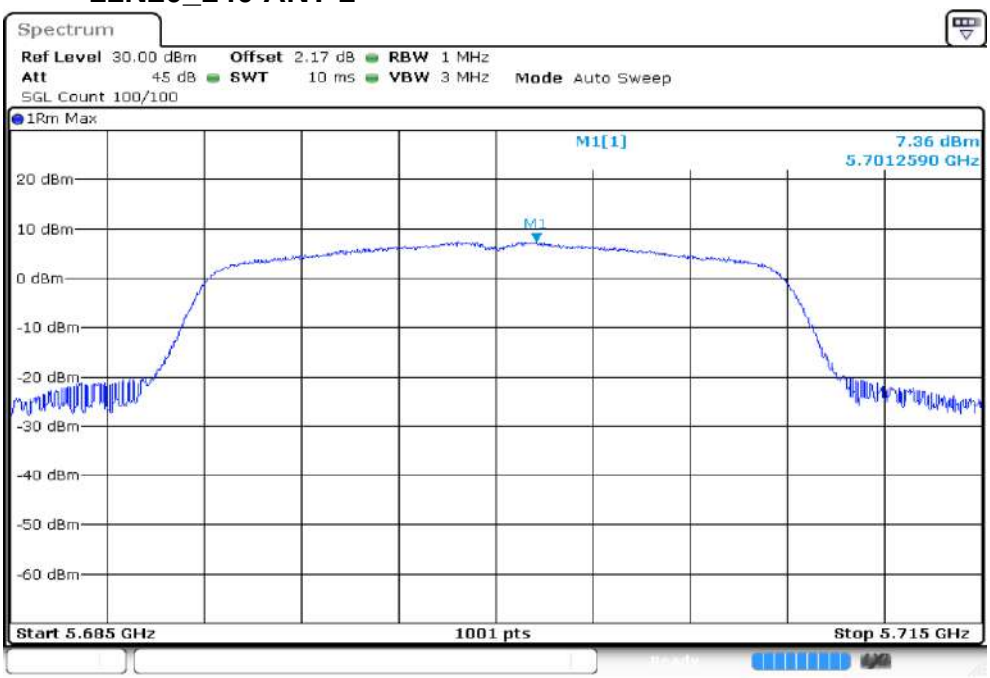
4.8.2.14 11N20_140 ANT 1



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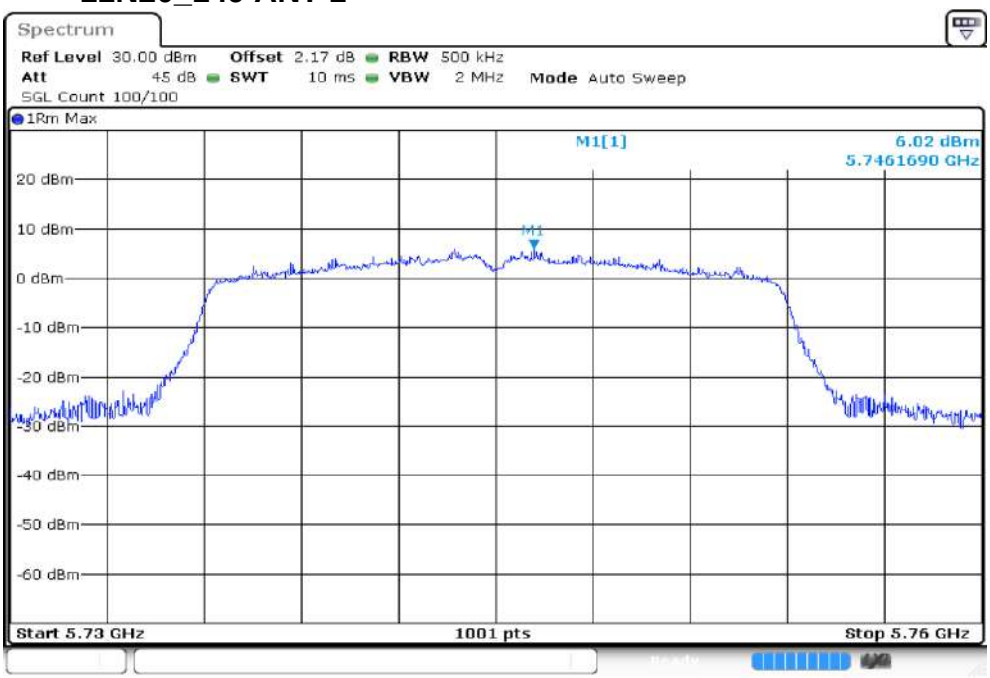

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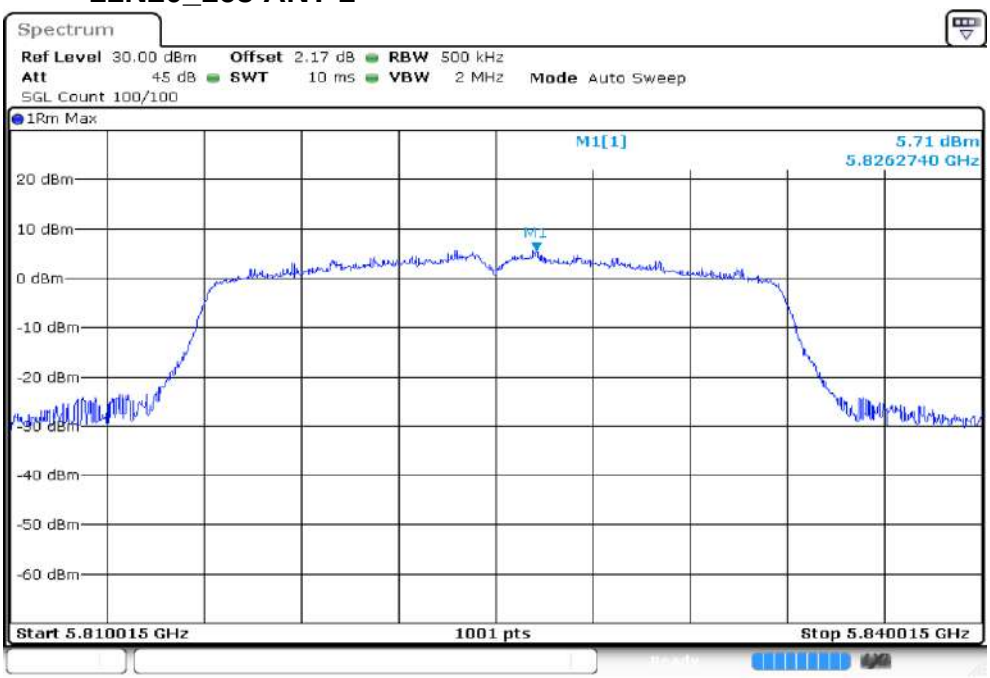
4.8.2.16 11N20_165 ANT 1



Date: 12.DEC.2019 07:20:31

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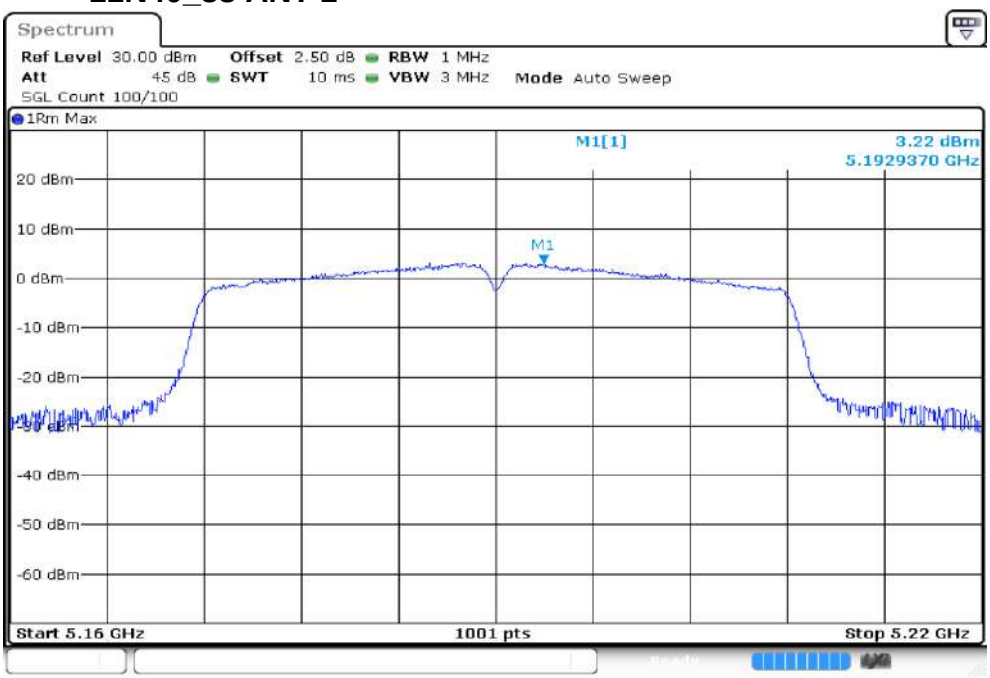

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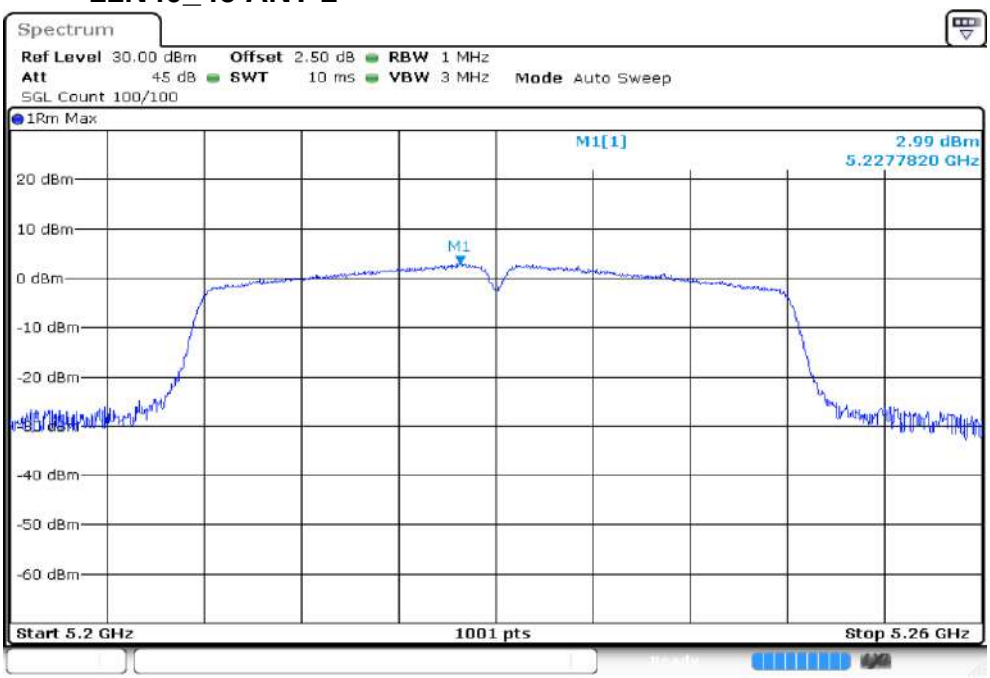
4.8.2.18 11N40_46 ANT 1



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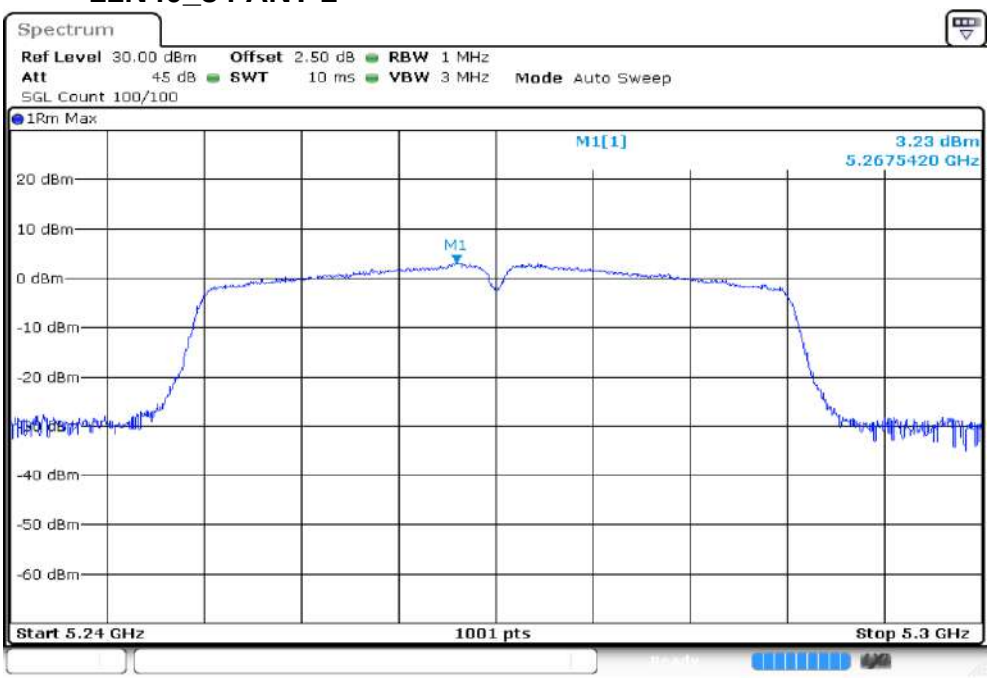

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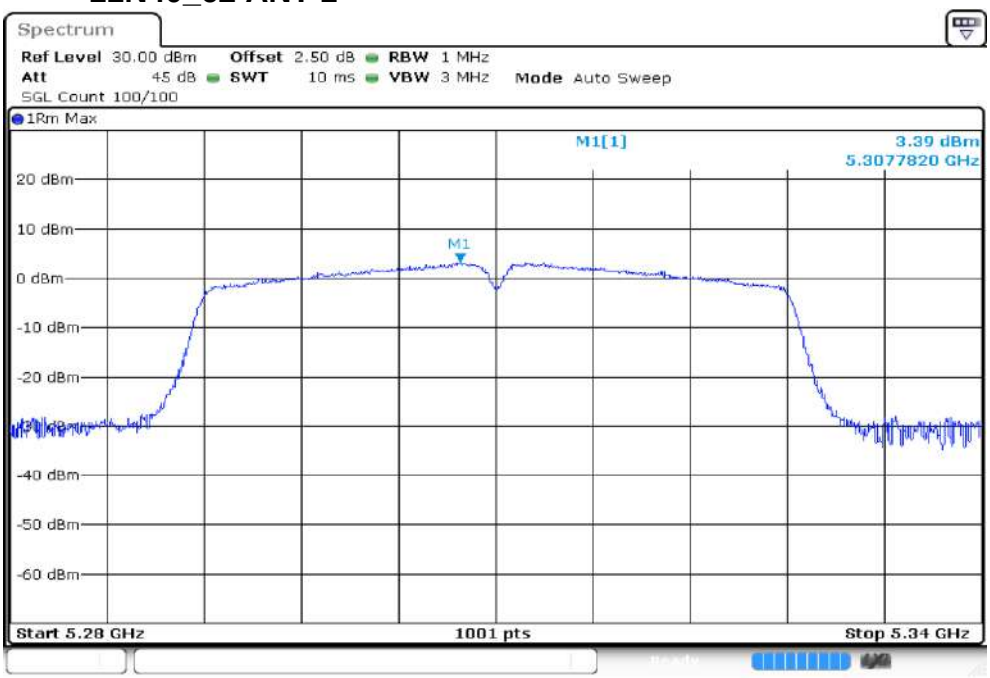
4.8.2.20 11N40_62 ANT 1



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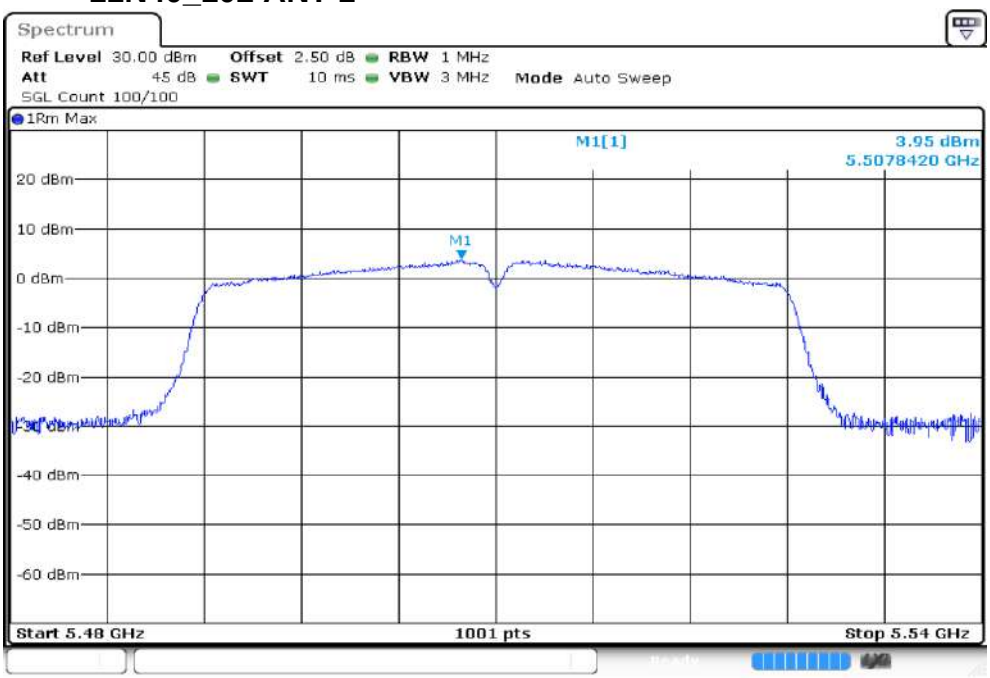

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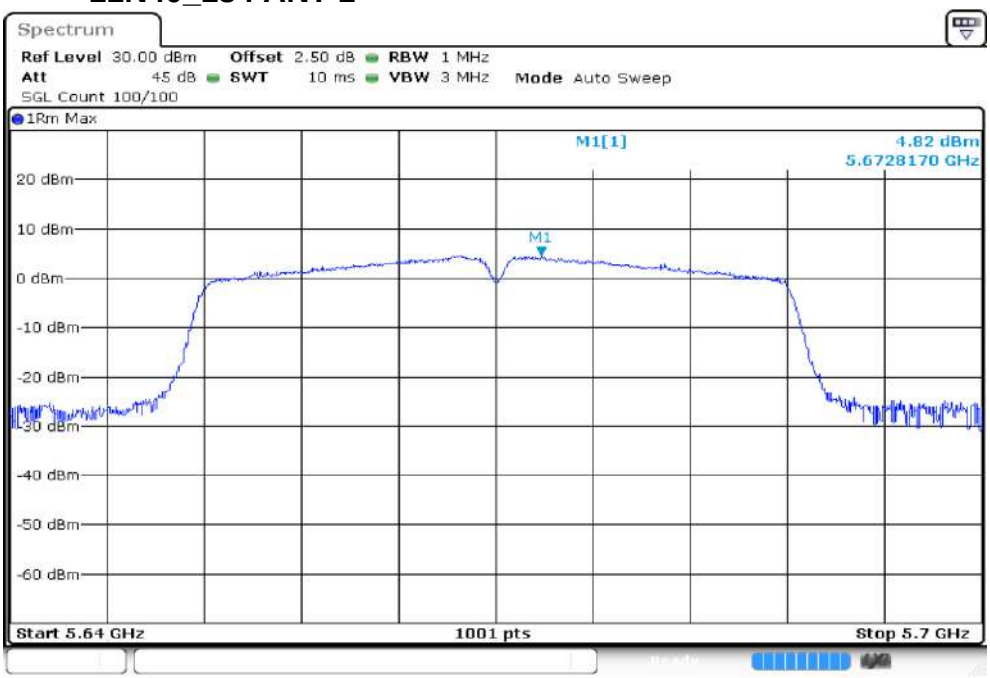
4.8.2.22 11N40_134 ANT 1



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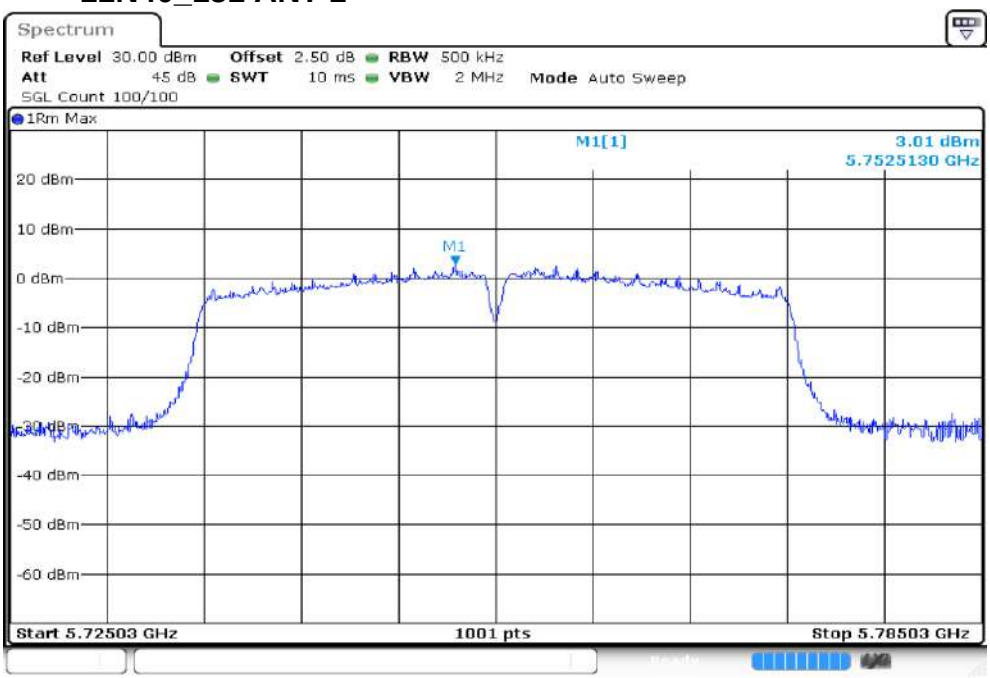
4.8.2.23 11N40_151 ANT 1



Date: 12.DEC.2019 07:49:31

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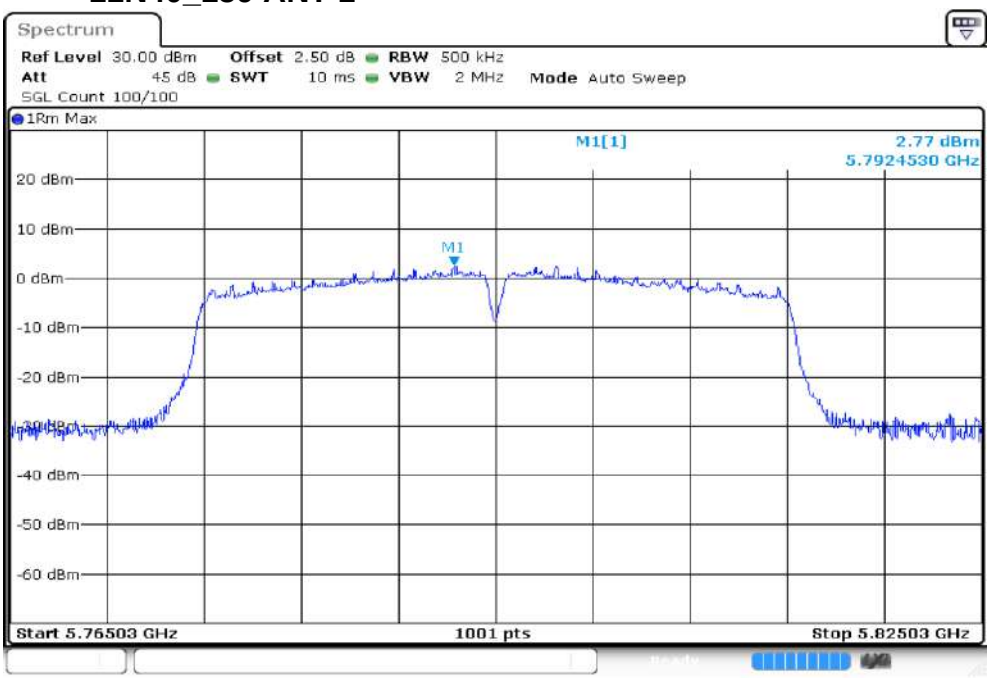
4.8.2.24 11N40_159 ANT 1



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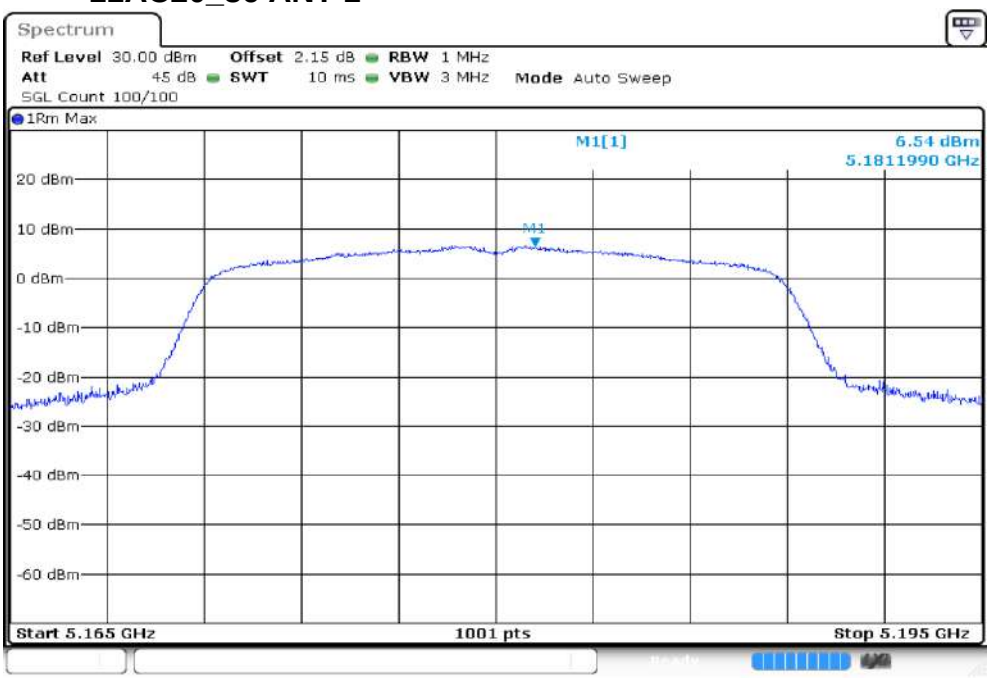
4.8.2.25 11AC20_36 ANT 1



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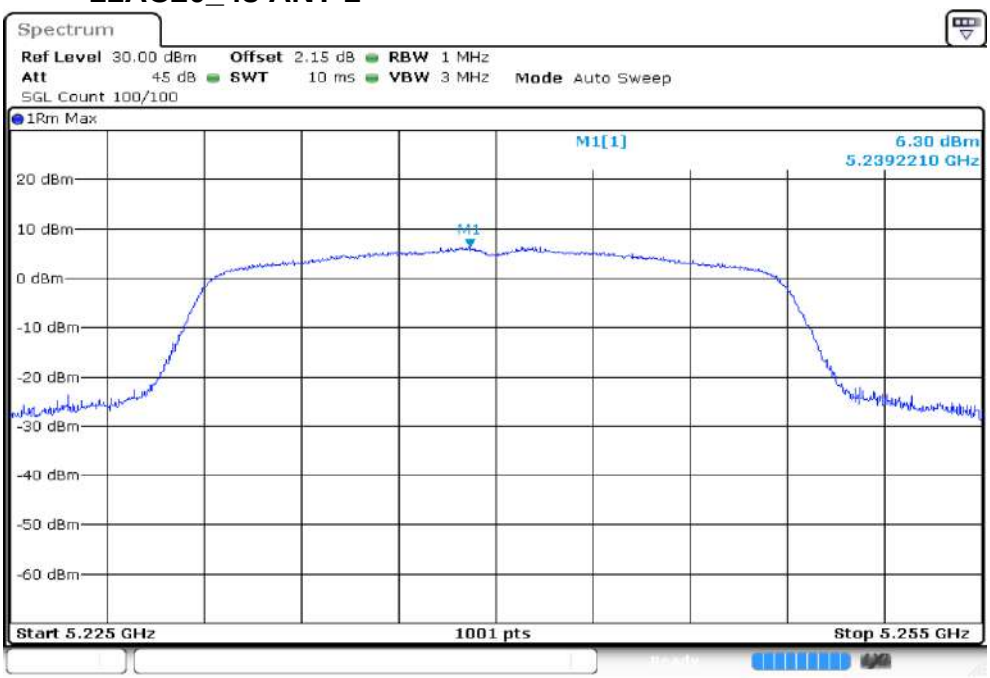
4.8.2.26 11AC20_48 ANT 1



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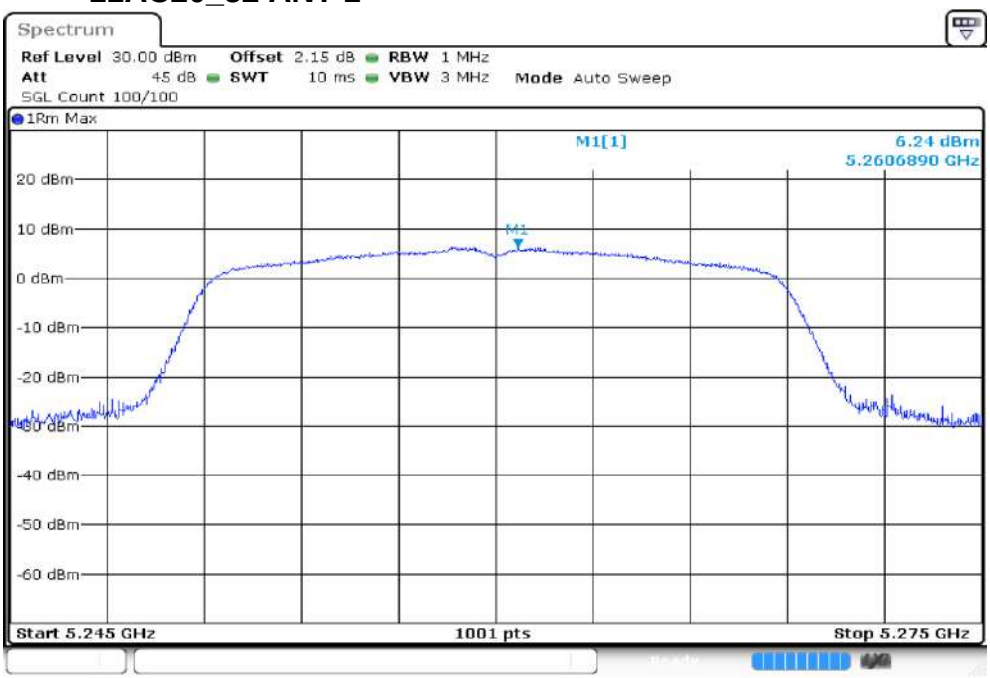

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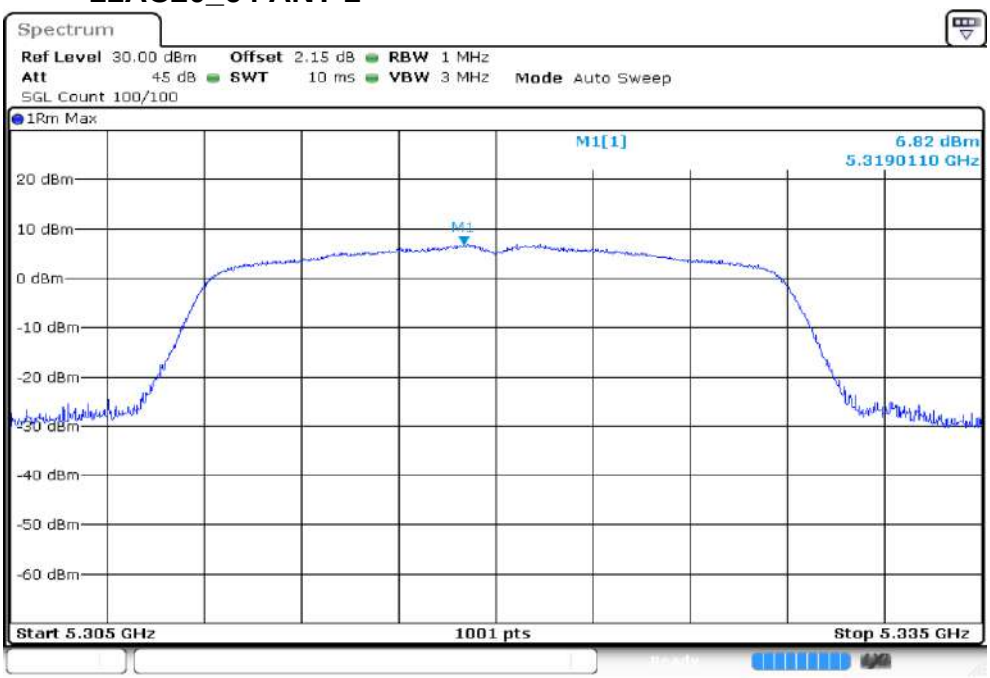
4.8.2.28 11AC20_64 ANT 1



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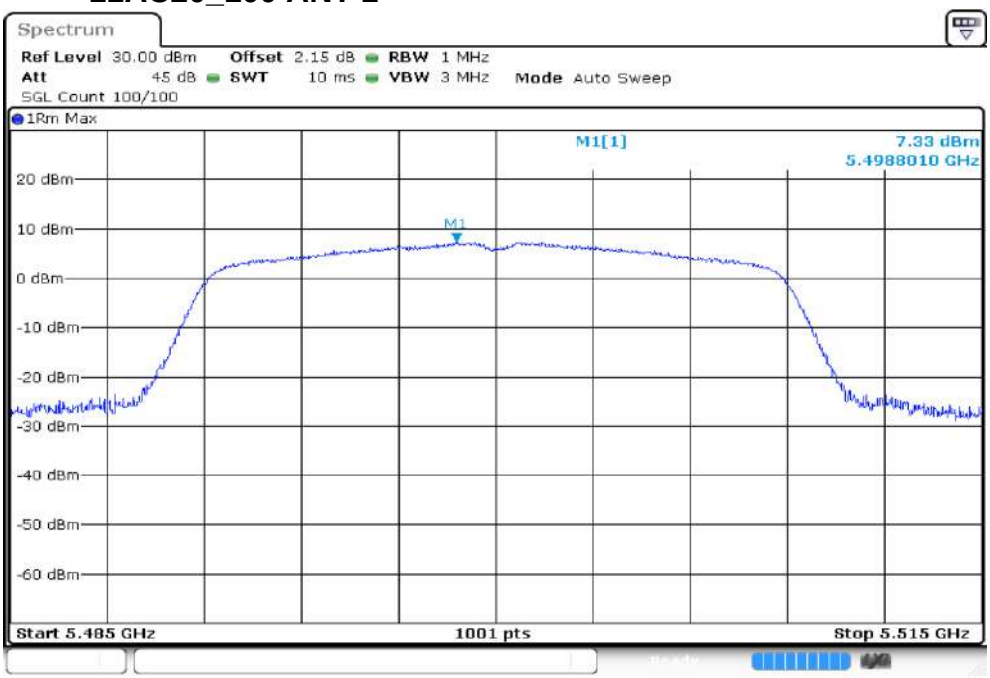

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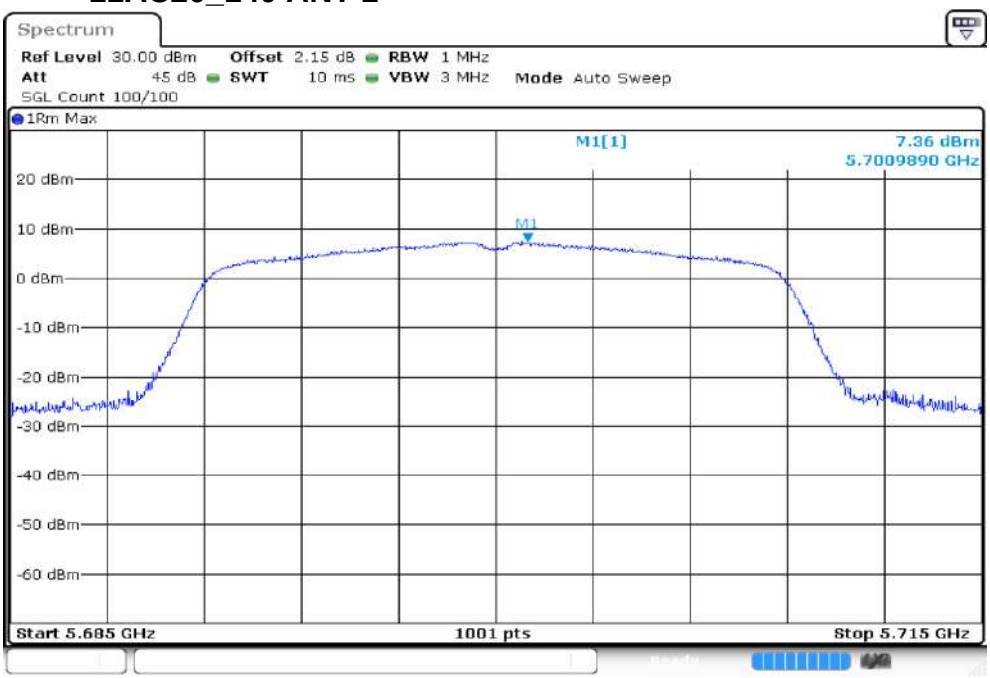
4.8.2.30 11AC20_140 ANT 1



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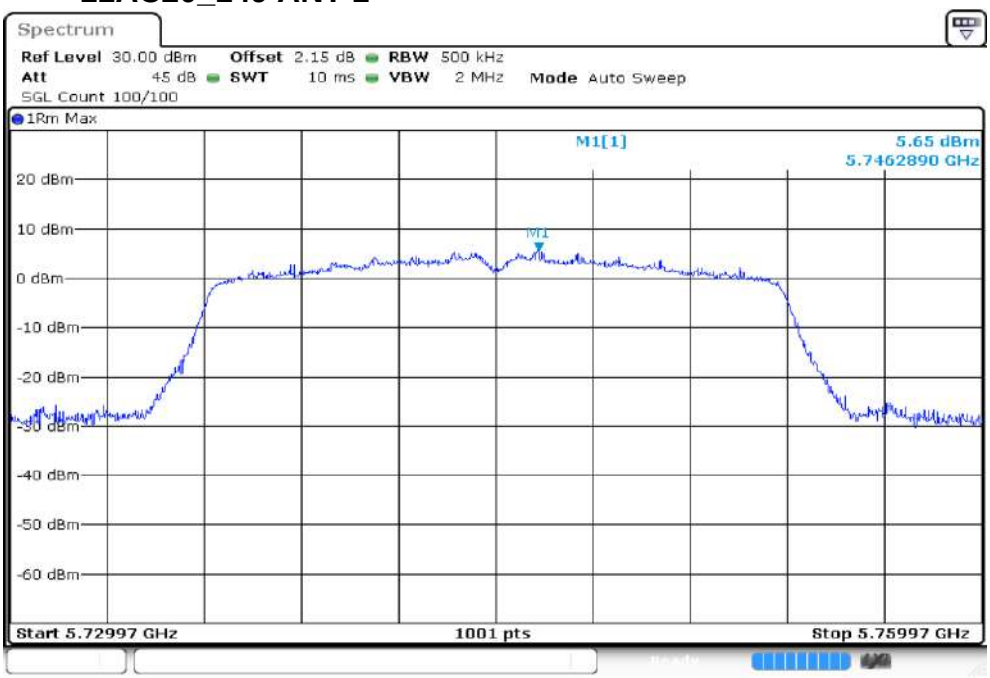
4.8.2.31 11AC20_149 ANT 1



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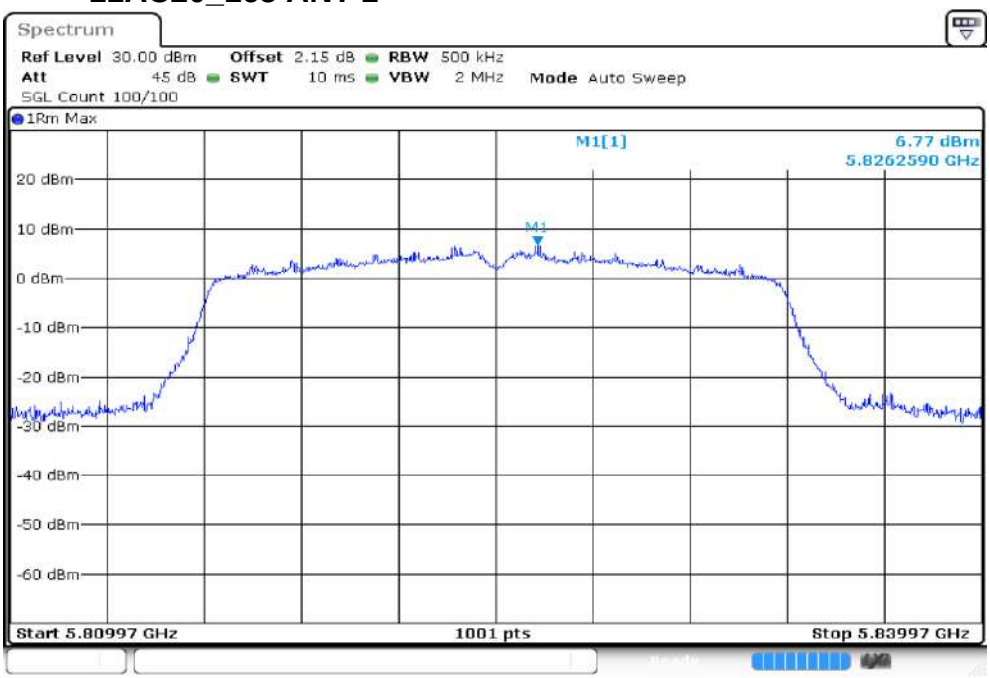
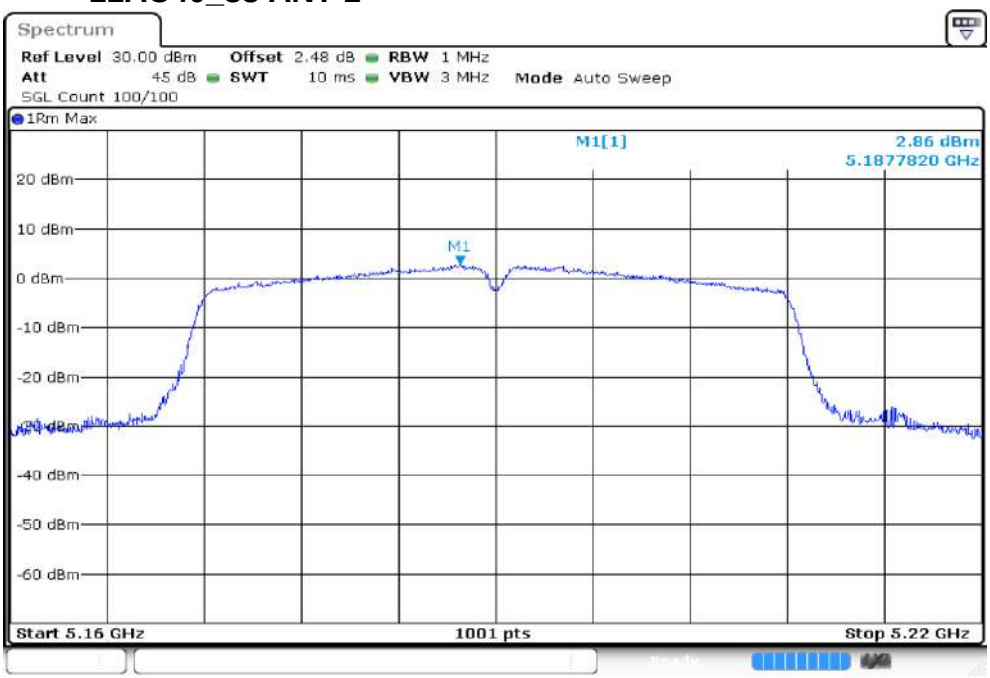


Date: 12.DEC.2019 07:33:49

4.8.2.33 11AC40_38 ANT 1



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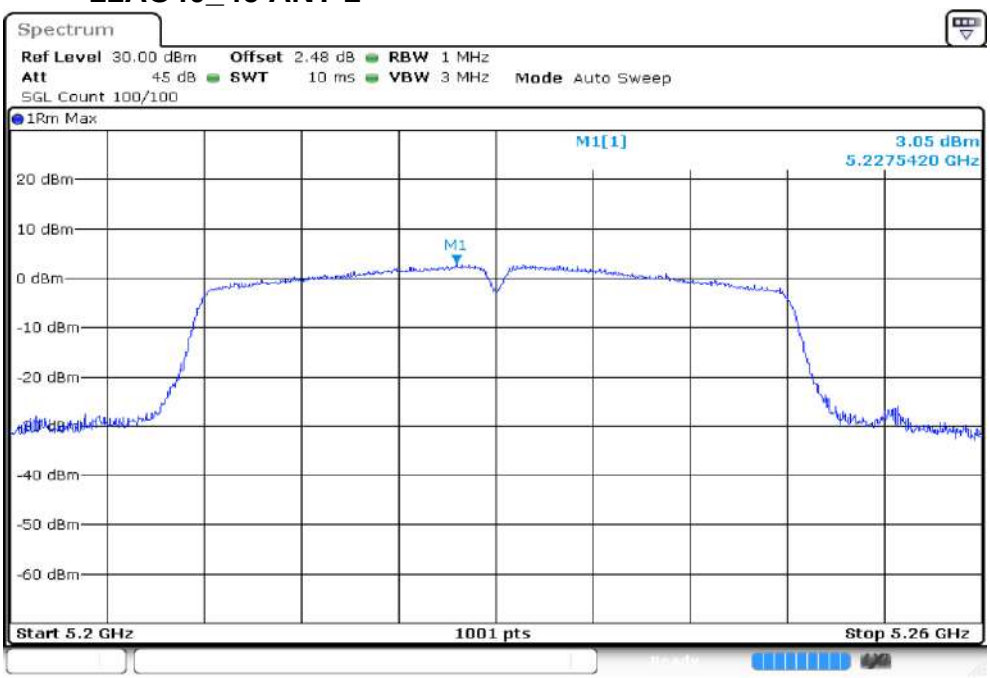
4.8.2.34 11AC40_46 ANT 1



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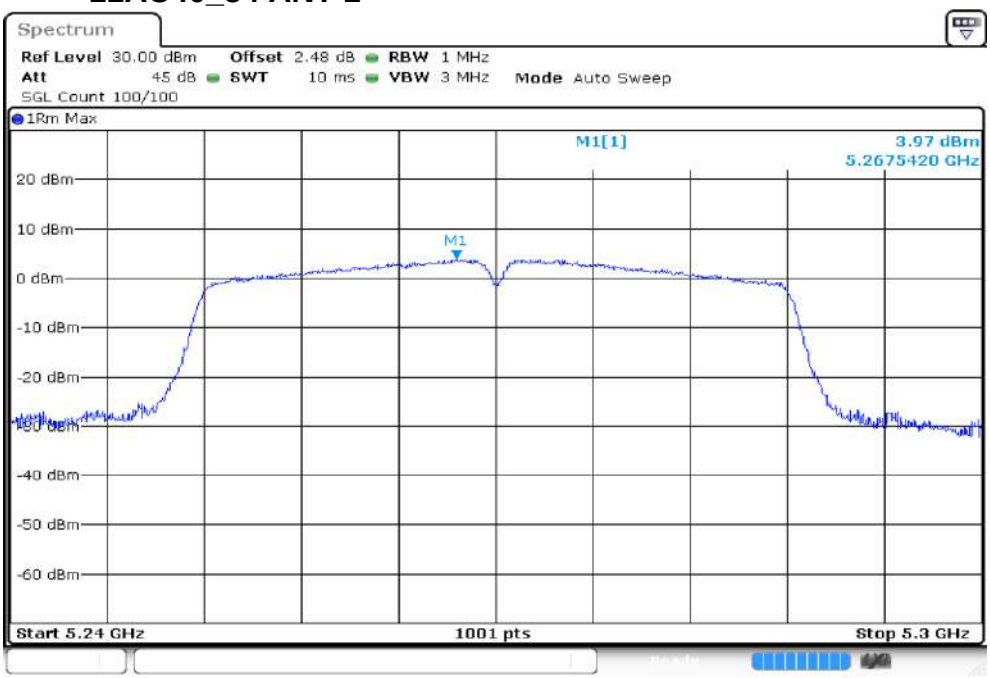

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4.8.2.36 11AC40_62 ANT 1

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4.8.2.37 11AC40_102 ANT 1

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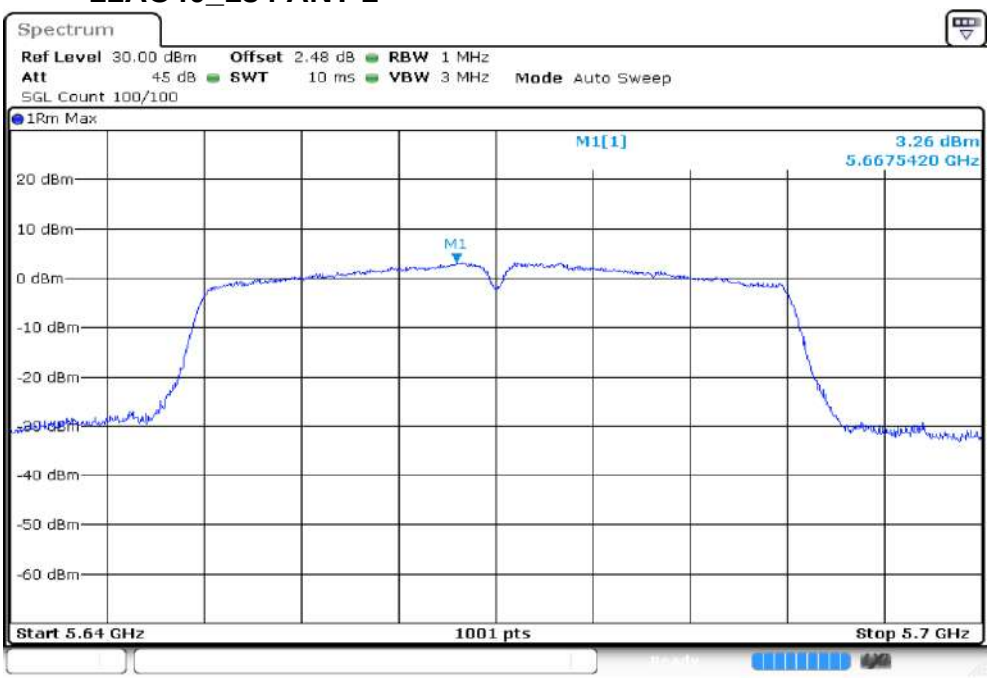
4.8.2.38 11AC40_134 ANT 1



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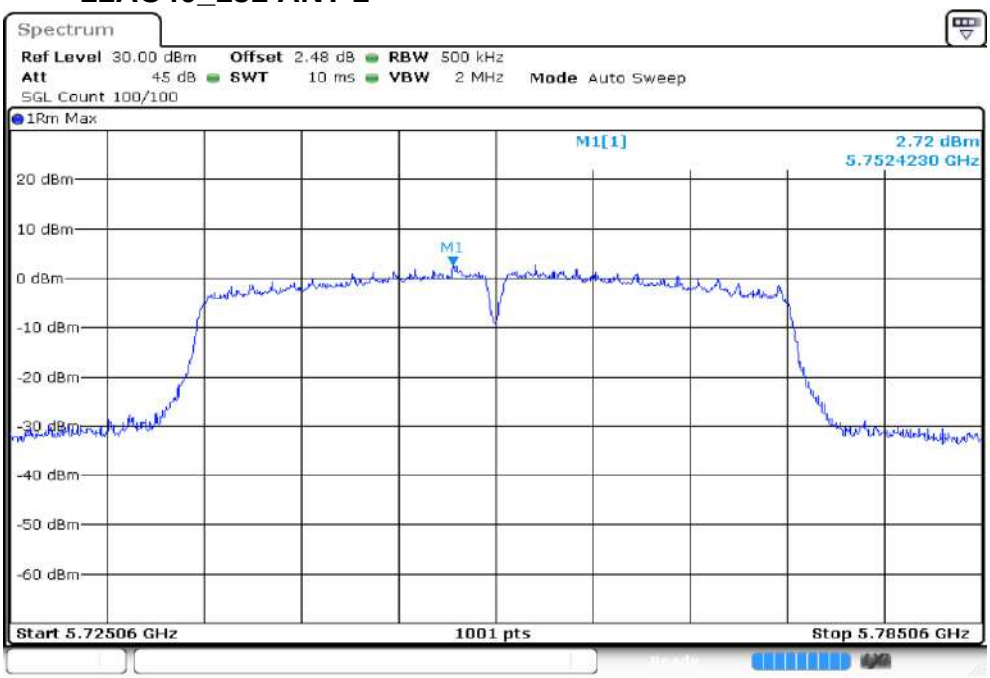

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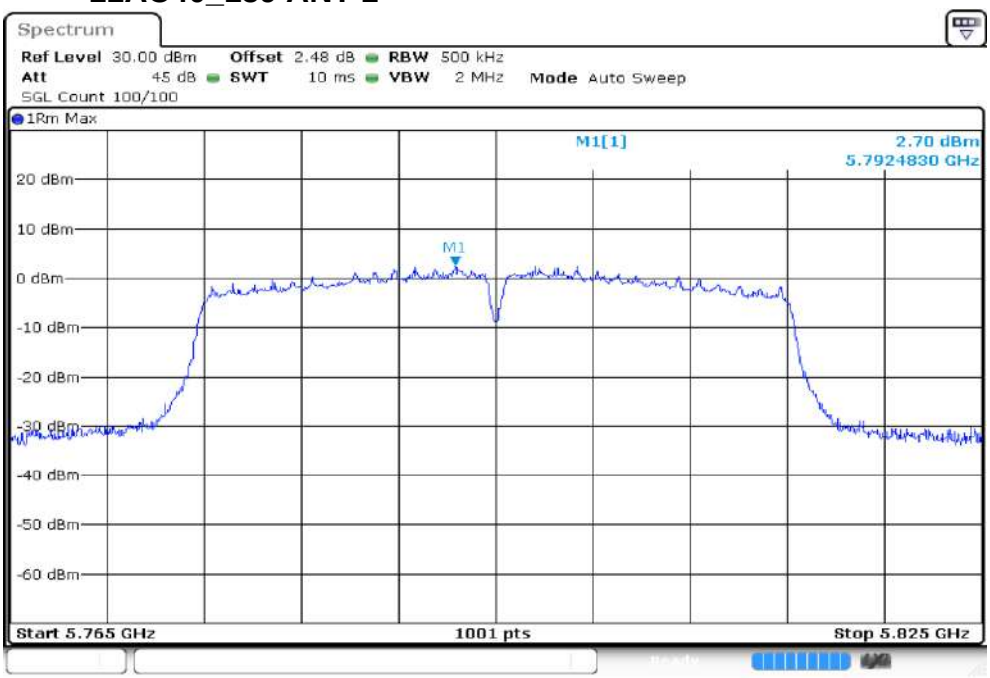
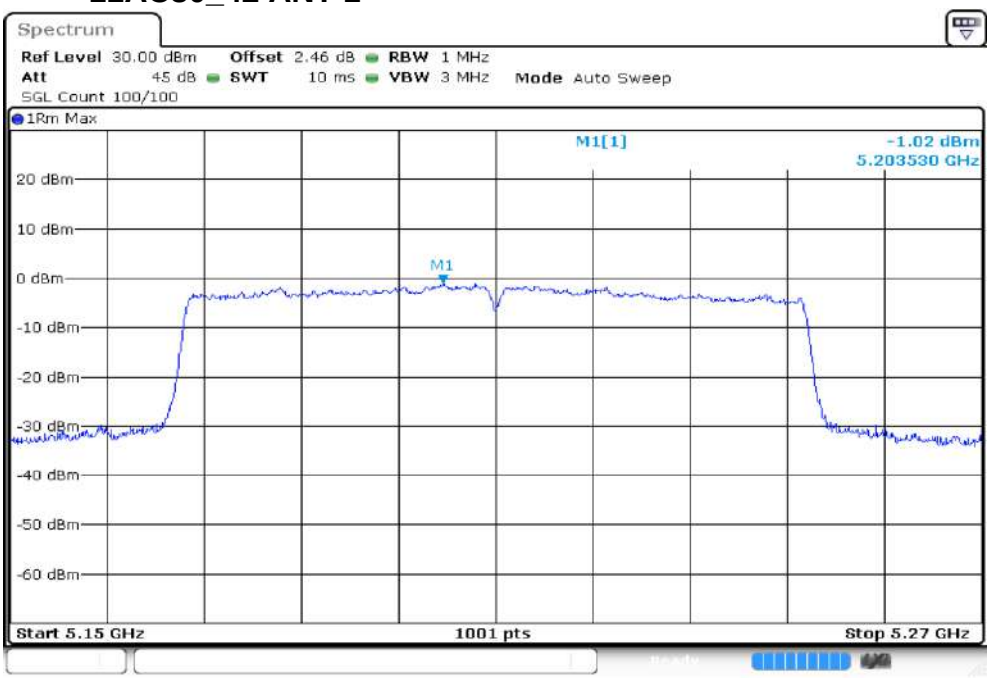
4.8.2.40 11AC40_159 ANT 1



Date: 12.DEC.2019 08:05:01

4.8.2.41 11AC80_42 ANT 1



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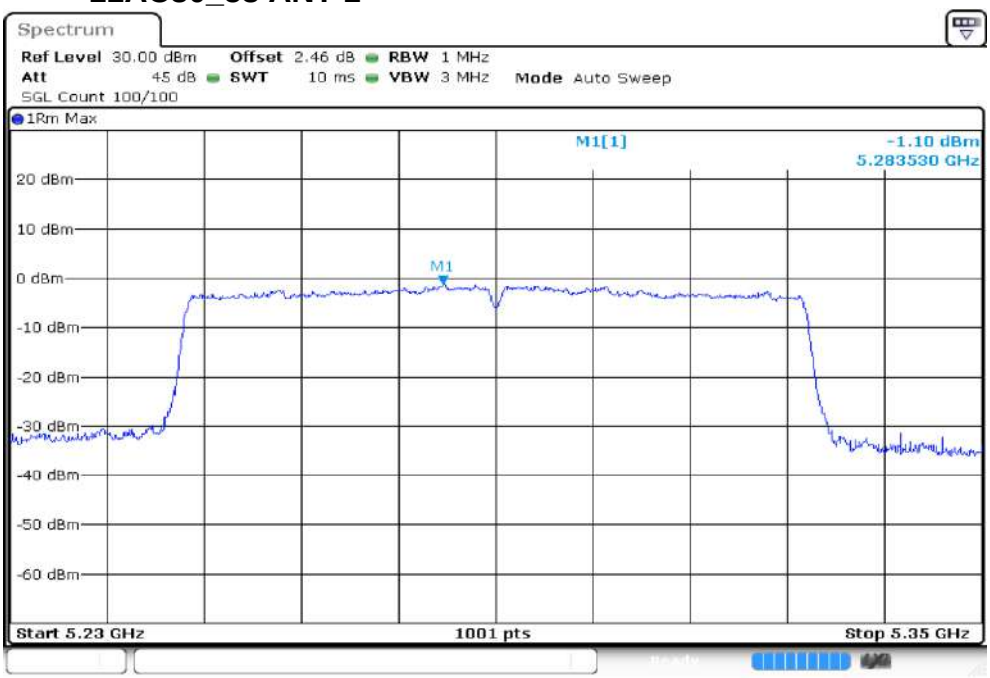
4.8.2.42 11AC80_58 ANT 1



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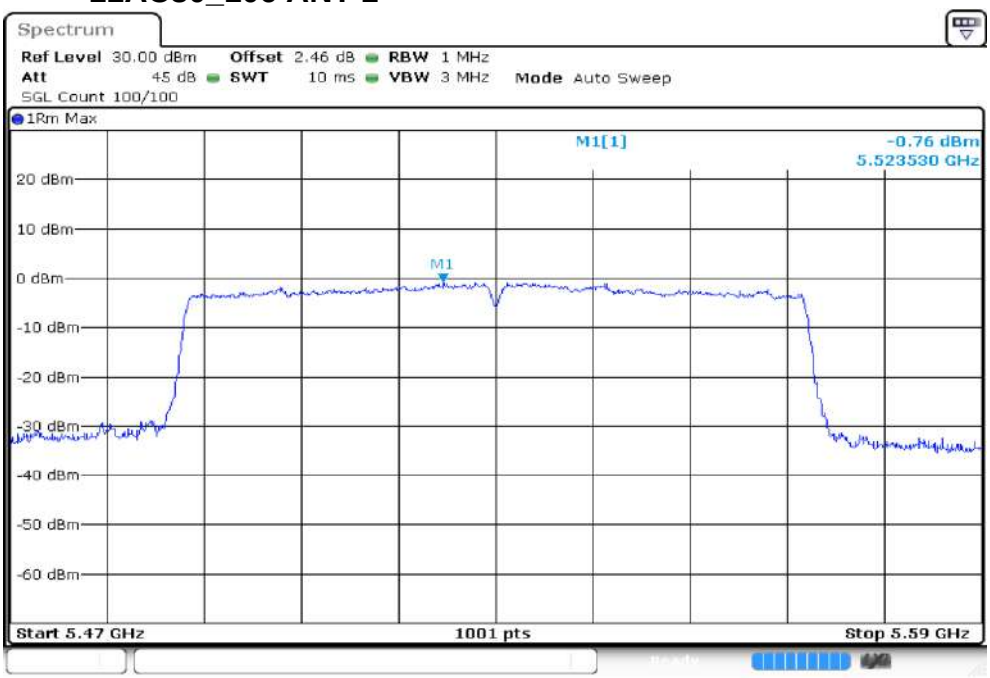
4.8.2.43 11AC80_106 ANT 1



Date: 12.DEC.2019 08:08:44

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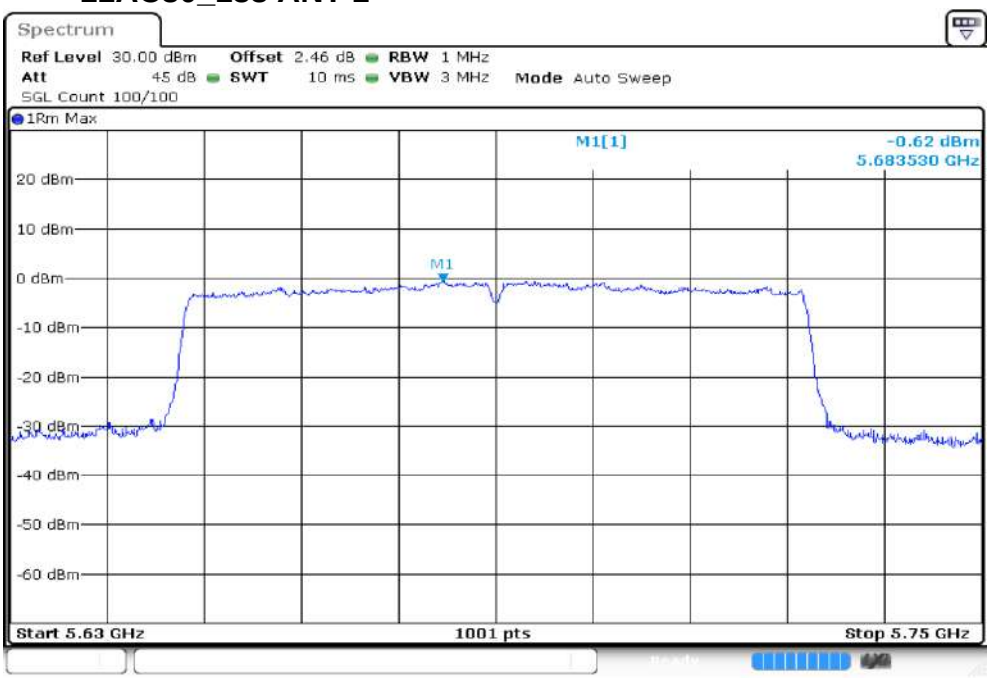
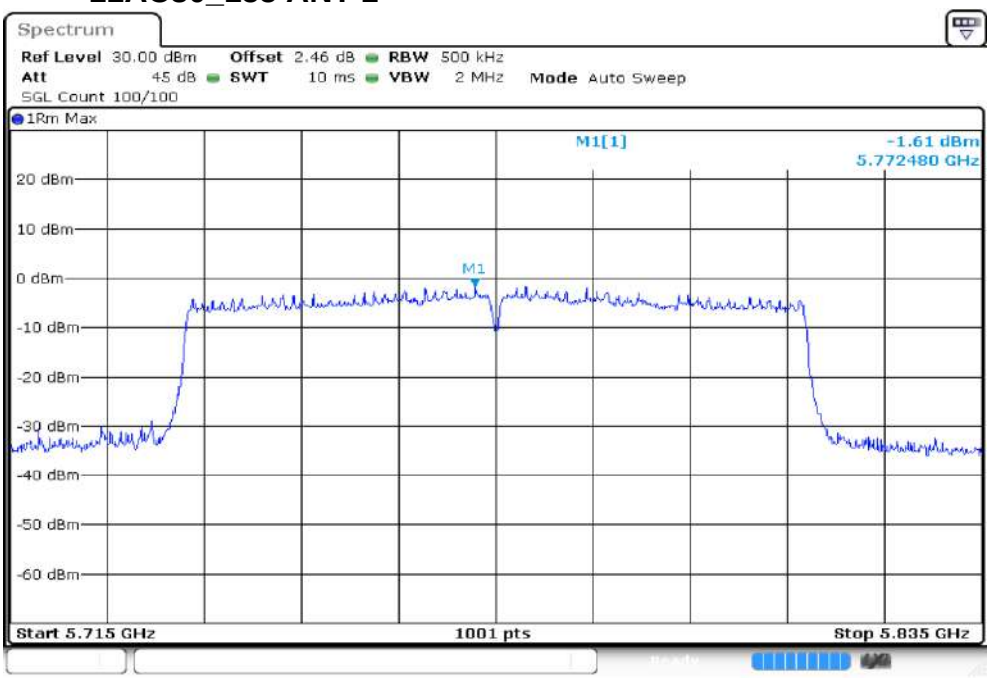
4.8.2.44 11AC80_138 ANT 1



Date: 12.DEC.2019 08:13:13

4.8.2.45 11AC80_155 ANT 1



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

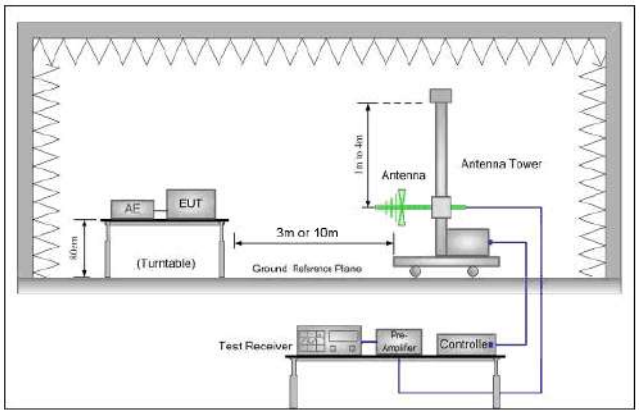

Figure 1. 30MHz to 1GHz

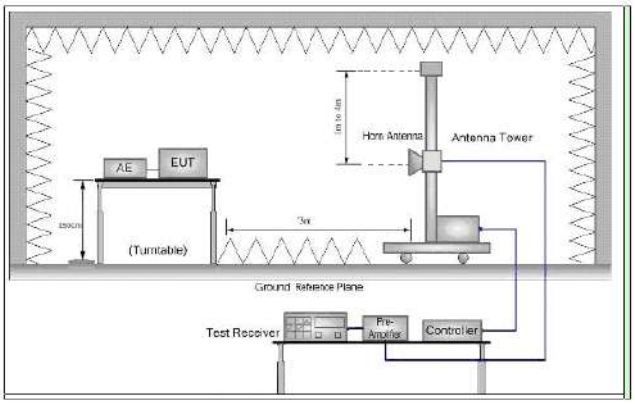

Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz ; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time = N 1 *L 1 +N 2 *L 2 +...+N n-1 *LN n-1 +N n *L n Where N 1 is number of type 1 pulses, L 1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

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	f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. h. Test the EUT in the outermost channels. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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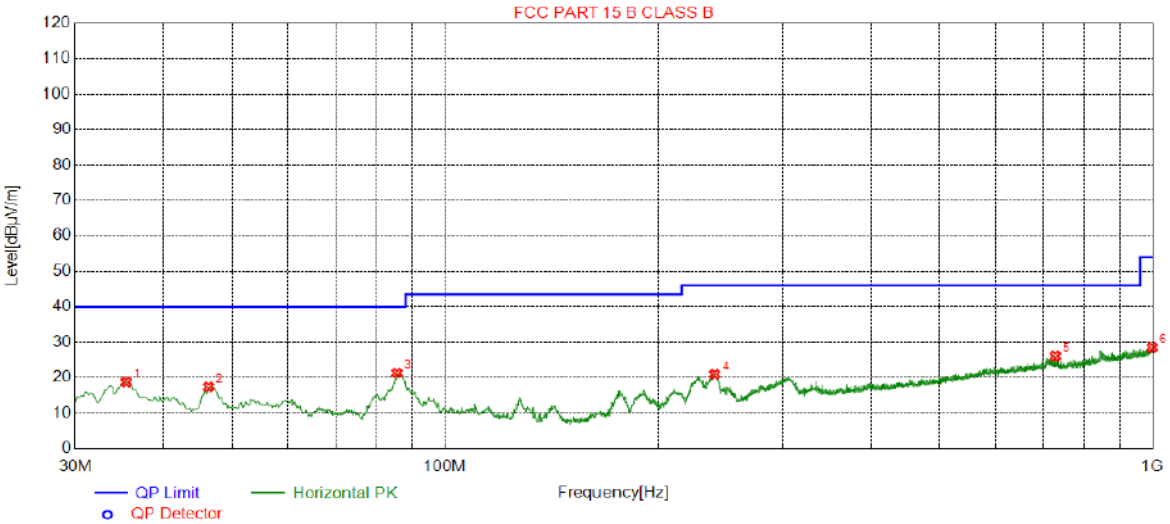
4.9.1 Radiated emission below 1GHz

Test mode:	Transmitting	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.4331	18.73	-29.82	40.00	21.27	133	359	Horizontal
2	46.2993	17.39	-30.41	40.00	22.61	239	255	Horizontal
3	85.4951	21.33	-34.82	40.00	18.67	148	316	Horizontal
4	240.5321	20.95	-30.05	46.00	25.05	209	288	Horizontal
5	728.5397	26.09	-18.84	46.00	19.91	188	242	Horizontal
6	998.2537	28.49	-14.81	54.00	25.51	219	264	Horizontal

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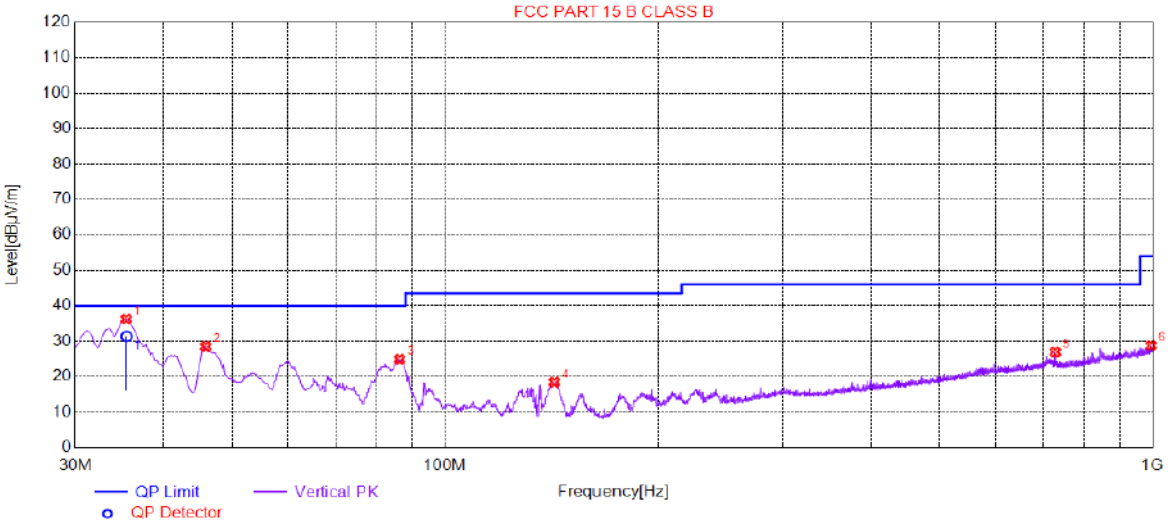
Test mode:	Transmitting	Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.4331	36.23	-29.82	40.00	3.77	249	343	Vertical
2	45.9112	28.47	-30.42	40.00	11.53	154	119	Vertical
3	86.2713	24.89	-34.63	40.00	15.11	156	239	Vertical
4	142.7365	18.42	-35.41	43.50	25.08	263	47	Vertical
5	728.5397	26.94	-18.84	46.00	19.06	222	255	Vertical
6	995.3431	28.75	-14.85	54.00	25.25	284	304	Vertical

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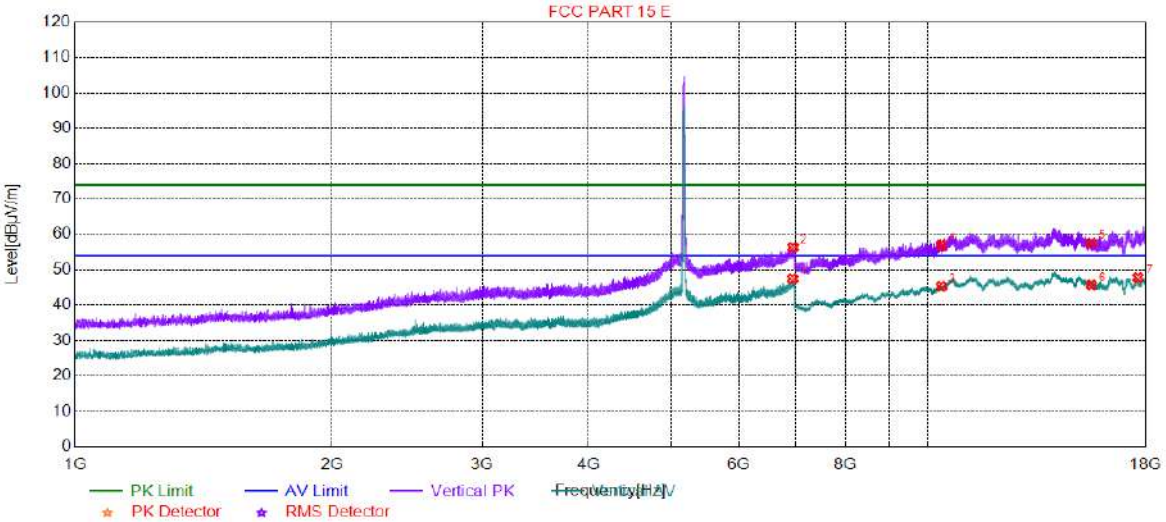
4.9.2 Transmitter emission above 1GHz

4.9.2.1 11A20_36 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6934.5967	47.46	24.86	54.00	6.54	183	69	Vertical
2	6942.3971	56.35	24.95	74.00	17.65	201	69	Vertical
3	10360.000	45.29	1.04	54.00	8.71	165	193	Vertical
4	10360.000	56.96	1.04	74.00	17.04	202	92	Vertical
5	15540.000	57.59	3.88	74.00	16.41	182	0	Vertical
6	15540.000	45.71	3.88	54.00	8.29	224	143	Vertical
7	17614.430	47.83	4.03	54.00	6.17	224	193	Vertical

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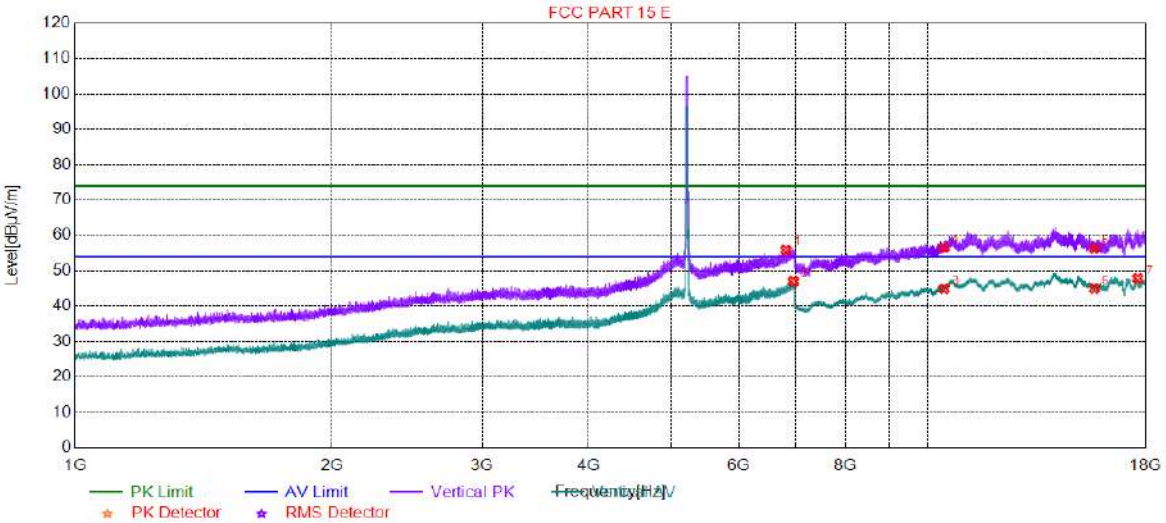
4.9.2.2 11A20_44 ANT 1_Vertical



Suspected List								
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1	6811.2906	55.89	23.96	74.00	18.11	166	18	Vertical
2	6950.4975	47.00	25.02	54.00	7.00	155	220	Vertical
3	10440.0000	44.91	1.08	54.00	9.09	271	342	Vertical
4	10440.0000	56.59	1.08	74.00	17.41	234	92	Vertical
5	15660.0000	56.31	3.30	74.00	17.69	267	92	Vertical
6	15660.0000	44.97	3.30	54.00	9.03	283	342	Vertical
7	17608.3804	47.84	4.15	54.00	6.16	204	242	Vertical

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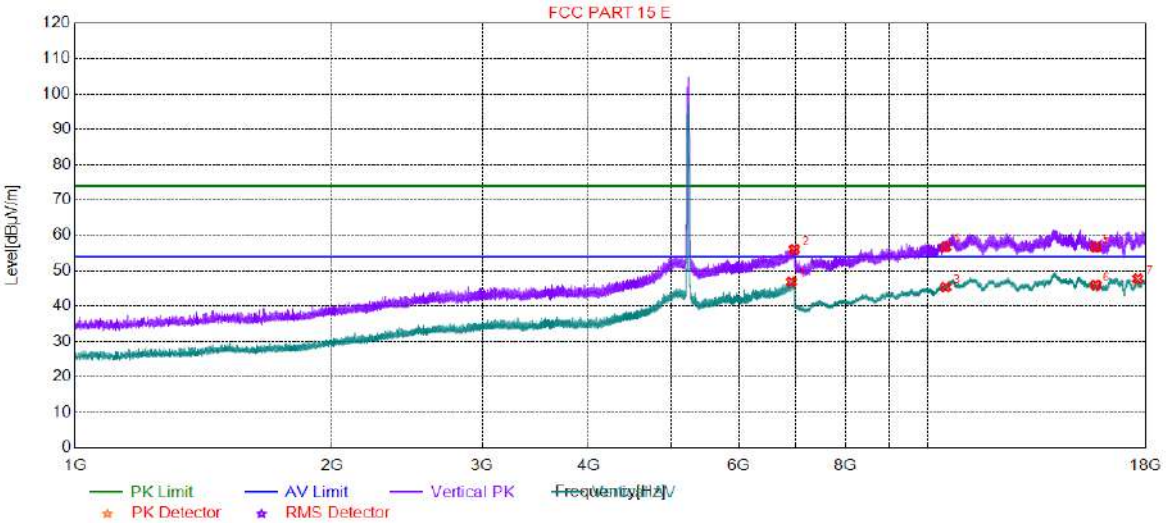
4.9.2.3 11A20_48 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6910.5955	46.88	24.61	54.00	7.12	196	219	Vertical
2	6969.9985	56.08	24.92	74.00	17.92	191	219	Vertical
3	10480.000	45.36	1.20	54.00	8.64	271	243	Vertical
4	10480.000	56.77	1.20	74.00	17.23	282	342	Vertical
5	15720.000	56.68	3.11	74.00	17.32	217	1	Vertical
6	15720.000	45.95	3.11	54.00	8.05	282	45	Vertical
7	17611.130	47.76	4.09	54.00	6.24	221	45	Vertical

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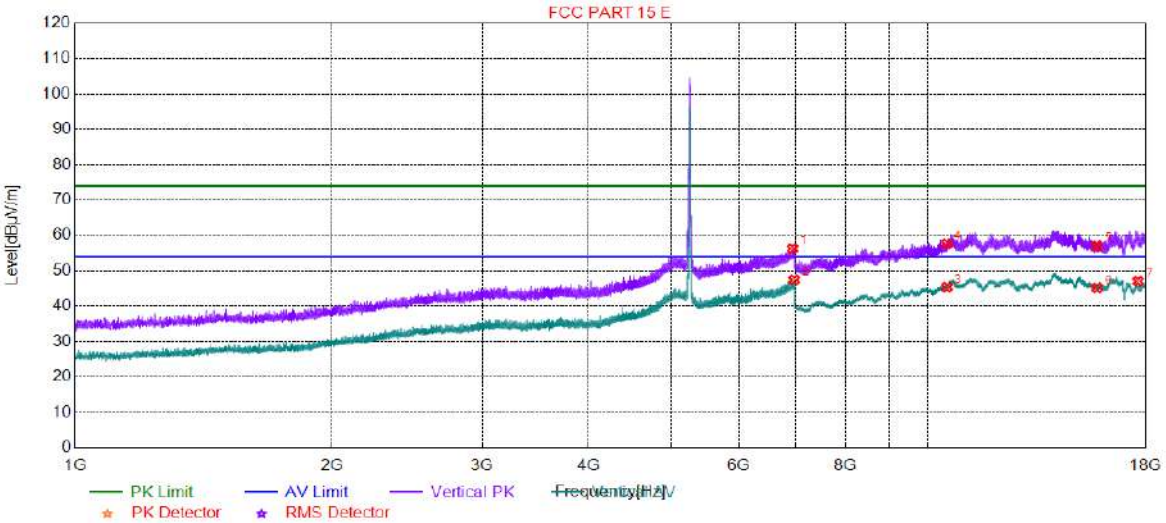
4.9.2.4 11A20_52 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6932.7966	56.28	24.84	74.00	17.72	217	169	Vertical
2	6965.1983	47.45	24.94	54.00	6.55	262	219	Vertical
3	10520.000	45.36	1.37	54.00	8.64	215	94	Vertical
4	10520.000	57.65	1.37	74.00	16.35	261	94	Vertical
5	15780.000	57.06	2.82	74.00	16.94	176	292	Vertical
6	15780.000	45.15	2.82	54.00	8.85	163	342	Vertical
7	17619.931	47.07	3.92	54.00	6.93	188	194	Vertical

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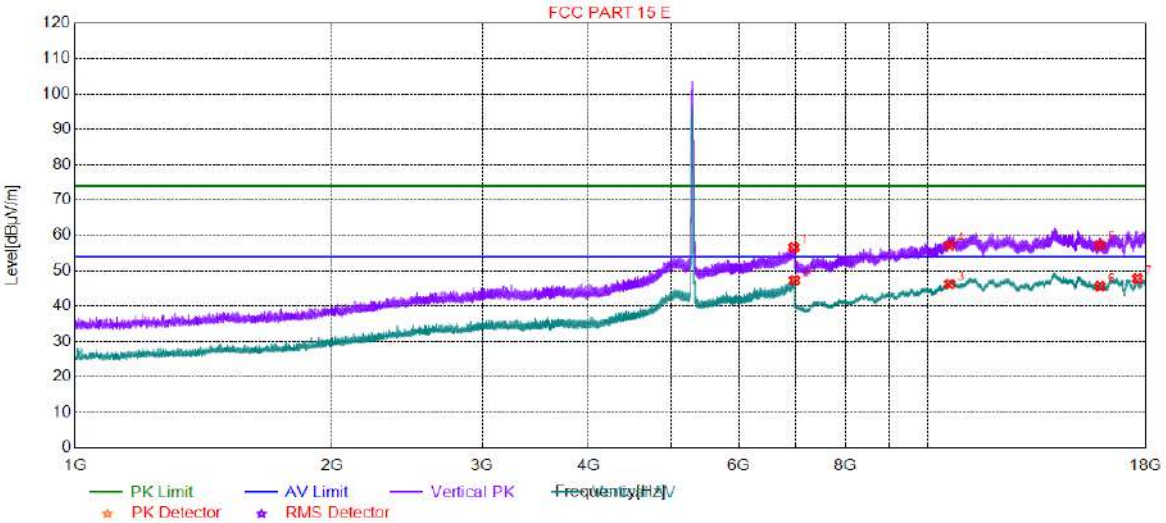
4.9.2.5 11A20_60 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6957.6979	56.64	24.98	74.00	17.36	235	68	Vertical
2	6972.9987	47.31	24.90	54.00	6.69	242	360	Vertical
3	10600.000	46.26	1.79	54.00	7.74	281	44	Vertical
4	10600.000	57.21	1.79	74.00	16.79	250	44	Vertical
5	15900.000	57.26	3.17	74.00	16.74	216	193	Vertical
6	15900.000	45.64	3.17	54.00	8.36	225	143	Vertical
7	17597.379	47.81	4.27	54.00	6.19	261	143	Vertical

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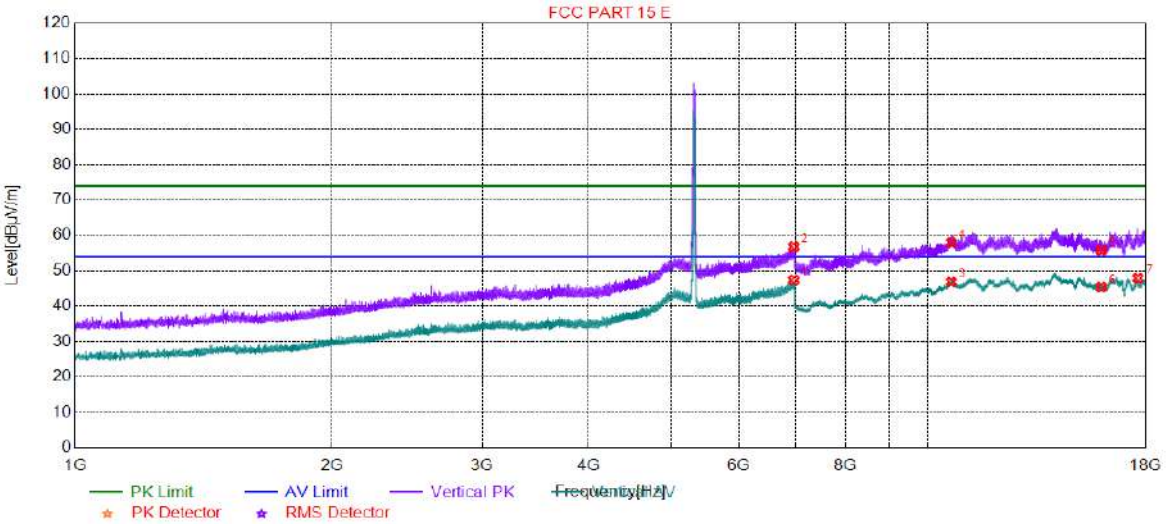
4.9.2.6 11A20_64 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6957.6979	47.37	24.98	54.00	6.63	201	169	Vertical
2	6958.5979	56.82	24.98	74.00	17.18	170	169	Vertical
3	10640.000	46.89	1.97	54.00	7.11	185	143	Vertical
4	10640.000	58.05	1.97	74.00	15.95	248	94	Vertical
5	15960.000	55.80	3.11	74.00	18.20	265	292	Vertical
6	15960.000	45.40	3.11	54.00	8.60	179	292	Vertical
7	17617.180	47.93	3.97	54.00	6.07	157	292	Vertical

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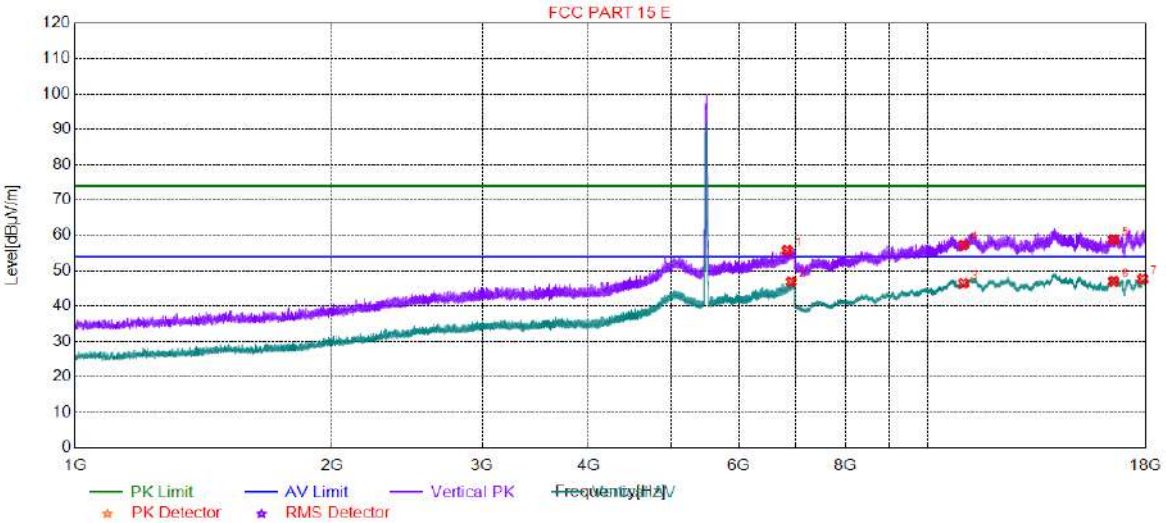
4.9.2.7 11A20_100 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6834.6917	55.76	24.13	74.00	18.24	167	68	Vertical
2	6907.2954	46.91	24.58	54.00	7.09	163	169	Vertical
3	11000.000	46.47	2.50	54.00	7.53	252	342	Vertical
4	11000.000	57.31	2.50	74.00	16.69	211	1	Vertical
5	16500.000	58.79	2.93	74.00	15.21	200	193	Vertical
6	16500.000	47.02	2.93	54.00	6.98	255	143	Vertical
7	17839.392	47.71	1.89	54.00	6.29	166	93	Vertical

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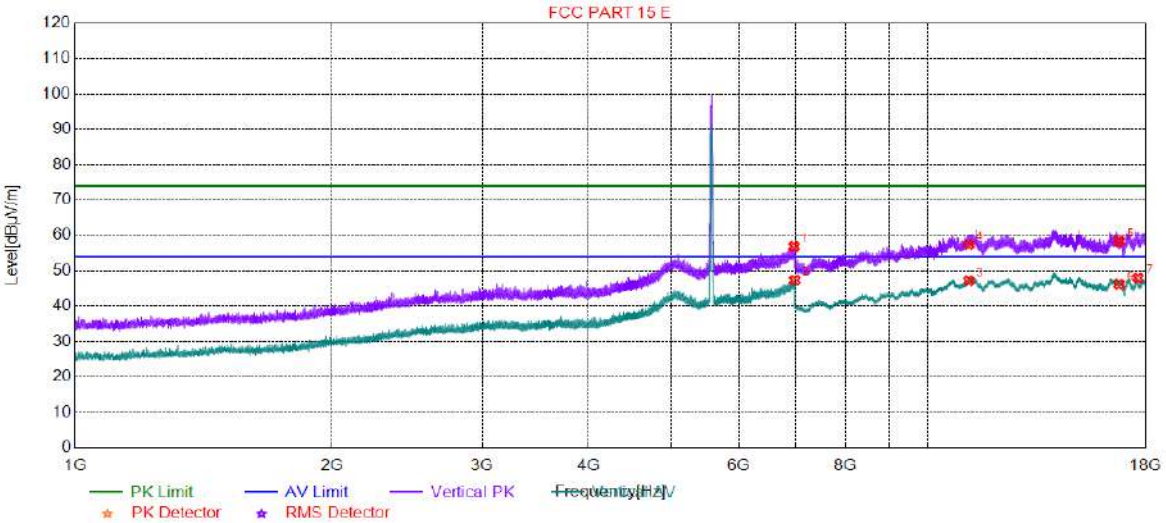
4.9.2.8 11A20_116 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6961.8981	56.90	24.96	74.00	17.10	287	68	Vertical
2	6977.4989	47.36	24.88	54.00	6.64	289	68	Vertical
3	11160.000	47.20	2.54	54.00	6.80	291	37	Vertical
4	11160.000	57.46	2.54	74.00	16.54	280	136	Vertical
5	16740.000	58.32	2.61	74.00	15.68	241	136	Vertical
6	16740.000	46.17	2.61	54.00	7.83	278	284	Vertical
7	17623.231	47.98	3.86	54.00	6.02	290	37	Vertical

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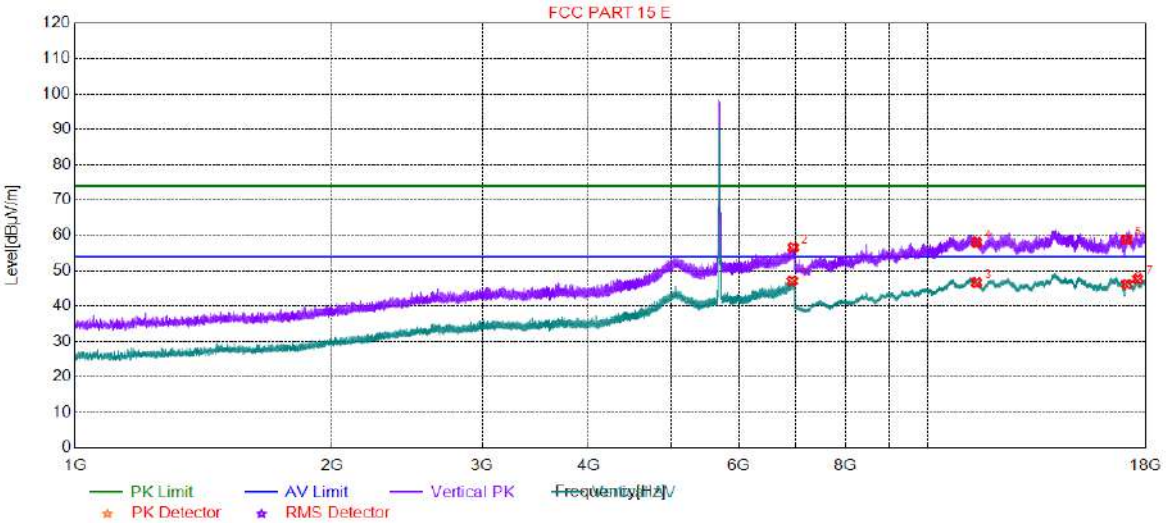
4.9.2.9 11A20_140 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6927.0964	47.13	24.78	54.00	6.87	254	68	Vertical
2	6946.8973	56.61	24.99	74.00	17.39	178	219	Vertical
3	11400.000	46.64	3.06	54.00	7.36	172	144	Vertical
4	11400.000	58.02	3.06	74.00	15.98	205	1	Vertical
5	17100.000	58.75	1.49	74.00	15.25	191	45	Vertical
6	17100.000	46.22	1.49	54.00	7.78	159	144	Vertical
7	17607.280	47.71	4.17	54.00	6.29	278	45	Vertical

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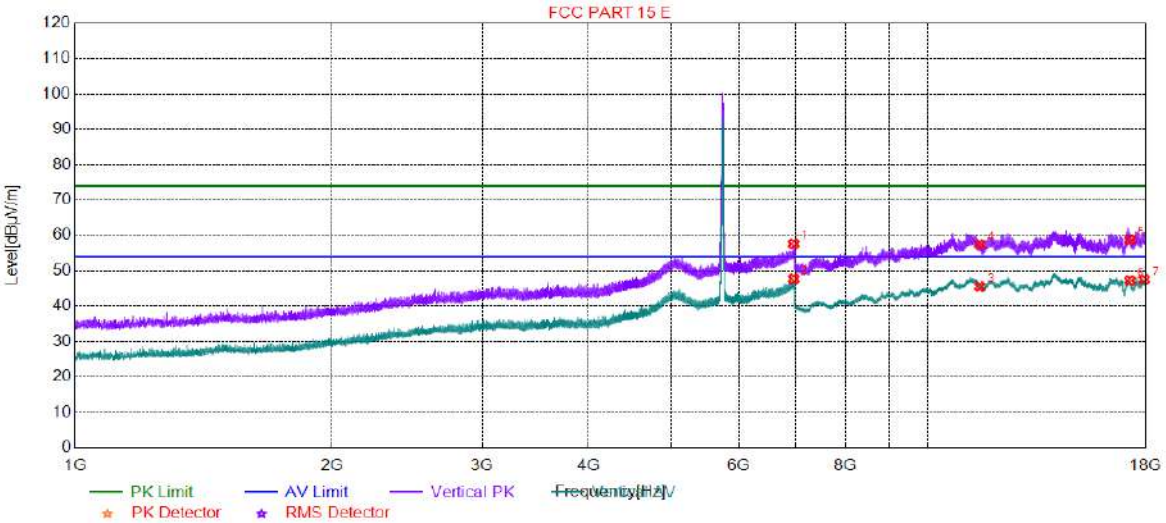
4.9.2.10 11A20_149 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6955.2978	57.64	25.00	74.00	16.36	219	118	Vertical
2	6955.5978	47.72	25.00	54.00	6.28	245	118	Vertical
3	11490.000	45.56	2.76	54.00	8.44	290	193	Vertical
4	11490.000	57.48	2.76	74.00	16.52	277	1	Vertical
5	17235.000	58.73	2.42	74.00	15.27	196	243	Vertical
6	17235.000	47.25	2.42	54.00	6.75	188	243	Vertical
7	17916.945	47.57	2.53	54.00	6.43	164	243	Vertical

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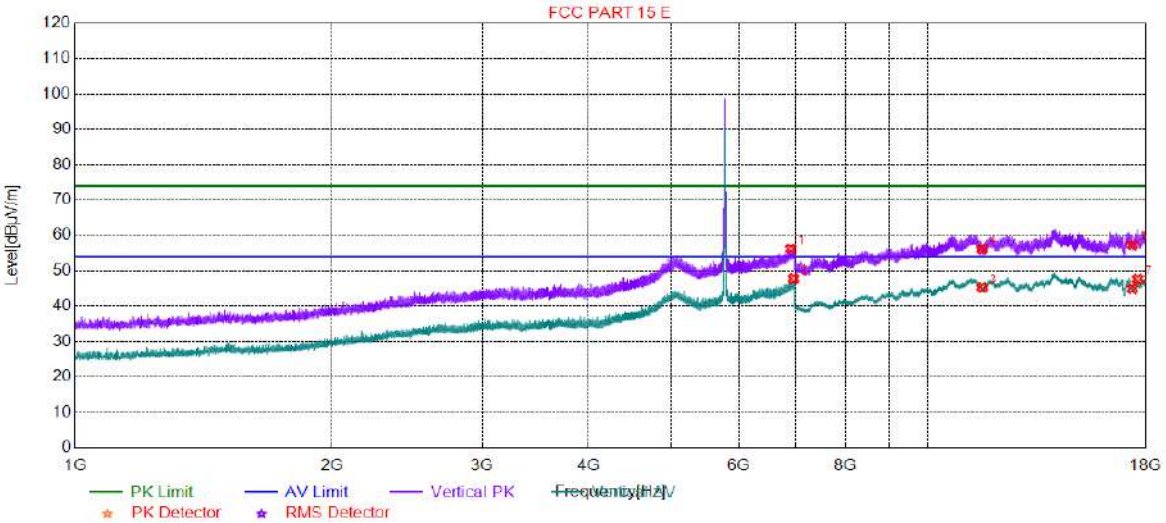
4.9.2.11 11A20_157 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6900.9951	56.23	24.51	74.00	17.77	195	271	Vertical
2	6952.8976	47.78	25.01	54.00	6.22	214	18	Vertical
3	11570.000	45.29	2.46	54.00	8.71	279	193	Vertical
4	11570.000	56.15	2.46	74.00	17.85	247	94	Vertical
5	17355.000	57.28	1.51	74.00	16.72	182	243	Vertical
6	17355.000	44.92	1.51	54.00	9.08	168	292	Vertical
7	17600.680	47.65	4.30	54.00	6.35	262	342	Vertical

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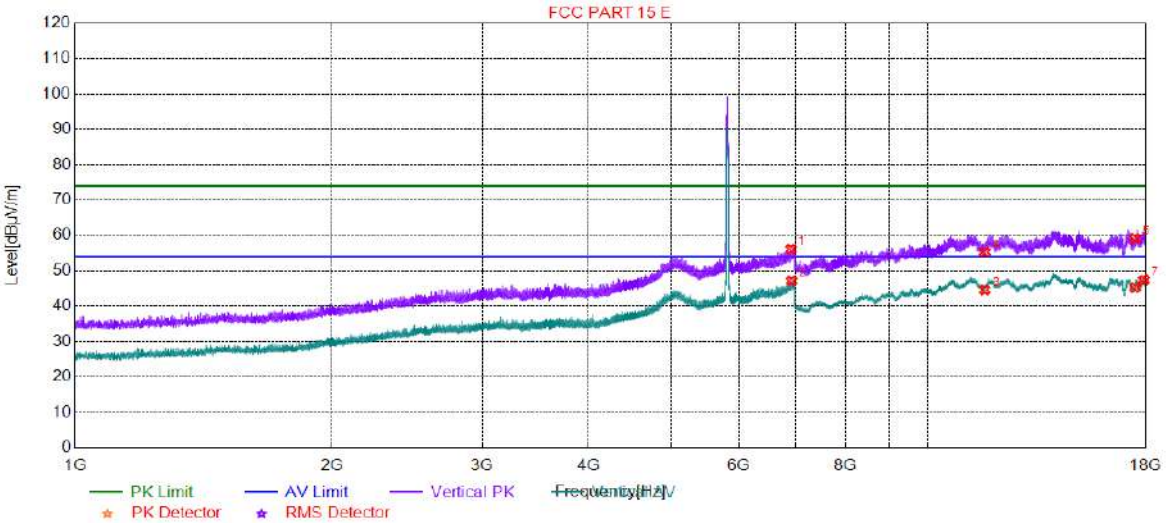
4.9.2.12 11A20_165 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6903.0952	56.14	24.53	74.00	17.86	234	120	Vertical
2	6913.5957	47.14	24.64	54.00	6.86	191	69	Vertical
3	11650.000	44.57	2.33	54.00	9.43	199	94	Vertical
4	11650.000	55.31	2.33	74.00	18.69	188	193	Vertical
5	17475.000	59.11	2.51	74.00	14.89	243	144	Vertical
6	17475.000	45.24	2.51	54.00	8.76	190	1	Vertical
7	17899.345	47.36	2.68	54.00	6.64	185	193	Vertical

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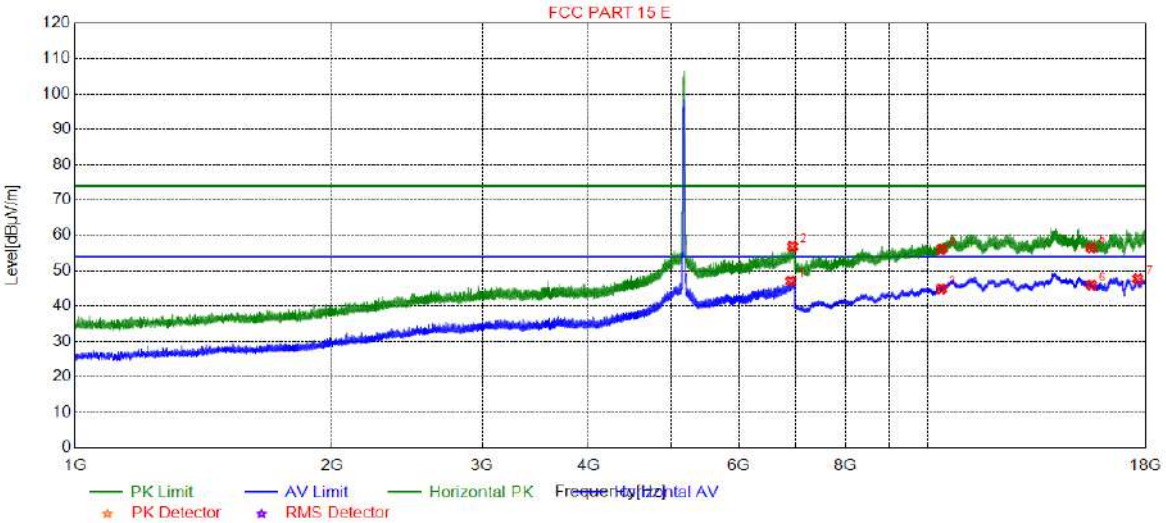
4.9.2.13 11A20_36 ANT 1_Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6899.7950	47.08	24.50	54.00	6.92	186	0	Horizontal
2	6933.3967	56.91	24.85	74.00	17.09	248	0	Horizontal
3	10360.000	44.85	1.04	54.00	9.15	102	18	Horizontal
4	10360.000	56.09	1.04	74.00	17.91	156	359	Horizontal
5	15540.000	56.46	3.88	74.00	17.54	218	18	Horizontal
6	15540.000	45.93	3.88	54.00	8.07	192	68	Horizontal
7	17608.380	47.77	4.15	54.00	6.23	191	18	Horizontal

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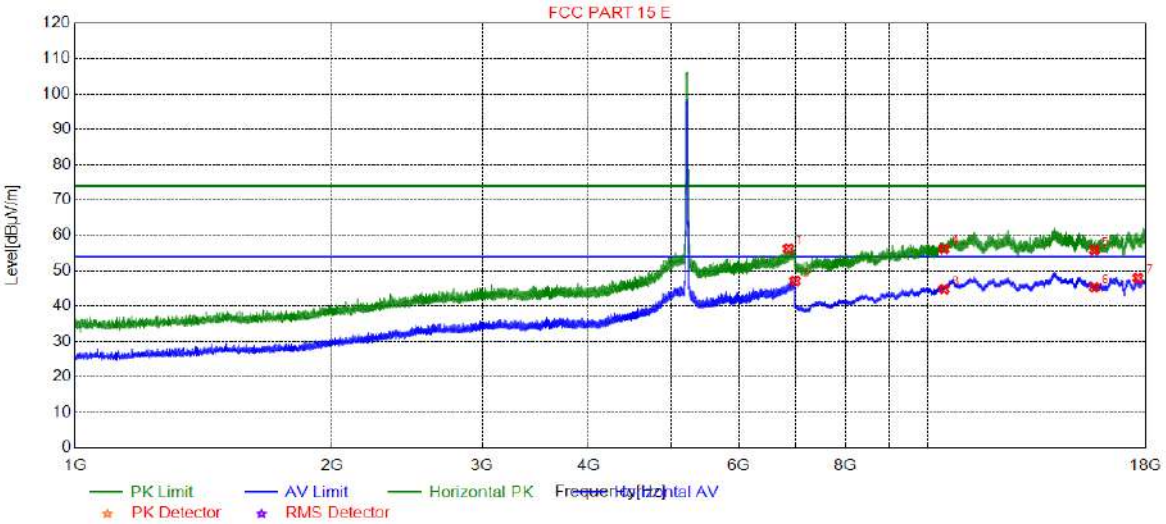
4.9.2.14 11A20_44 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6860.7930	56.26	24.30	74.00	17.74	156	141	Horizontal
2	6982.2991	47.13	24.85	54.00	6.87	179	39	Horizontal
3	10440.000	44.79	1.08	54.00	9.21	105	18	Horizontal
4	10440.000	56.21	1.08	74.00	17.79	102	266	Horizontal
5	15660.000	55.86	3.30	74.00	18.14	227	316	Horizontal
6	15660.000	45.33	3.30	54.00	8.67	245	316	Horizontal
7	17617.180	47.96	3.97	54.00	6.04	174	266	Horizontal

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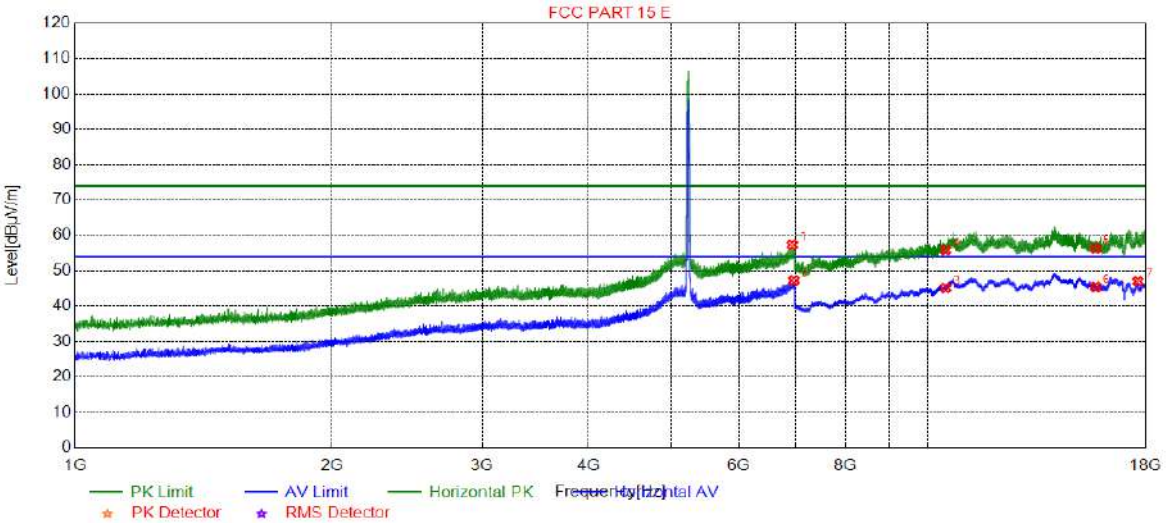
4.9.2.15 11A20_48 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6926.7963	57.37	24.78	74.00	16.63	239	141	Horizontal
2	6960.6980	47.27	24.97	54.00	6.73	220	191	Horizontal
3	10480.000	45.12	1.20	54.00	8.88	149	18	Horizontal
4	10480.000	55.86	1.20	74.00	18.14	200	316	Horizontal
5	15720.000	56.34	3.11	74.00	17.66	146	217	Horizontal
6	15720.000	45.40	3.11	54.00	8.60	114	167	Horizontal
7	17614.980	47.02	4.02	54.00	6.98	164	117	Horizontal

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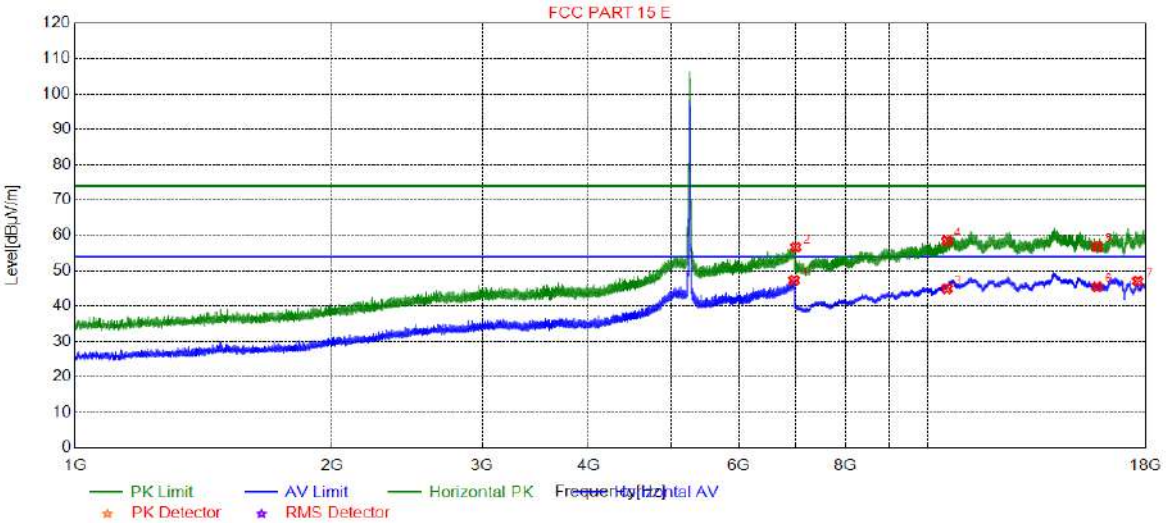
4.9.2.16 11A20_52 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6964.2982	47.32	24.95	54.00	6.68	230	141	Horizontal
2	6993.3997	56.69	24.79	74.00	17.31	129	241	Horizontal
3	10520.000	44.93	1.37	54.00	9.07	162	359	Horizontal
4	10520.000	58.44	1.37	74.00	15.56	173	266	Horizontal
5	15780.000	56.86	2.82	74.00	17.14	199	359	Horizontal
6	15780.000	45.46	2.82	54.00	8.54	196	118	Horizontal
7	17604.530	47.06	4.22	54.00	6.94	179	266	Horizontal

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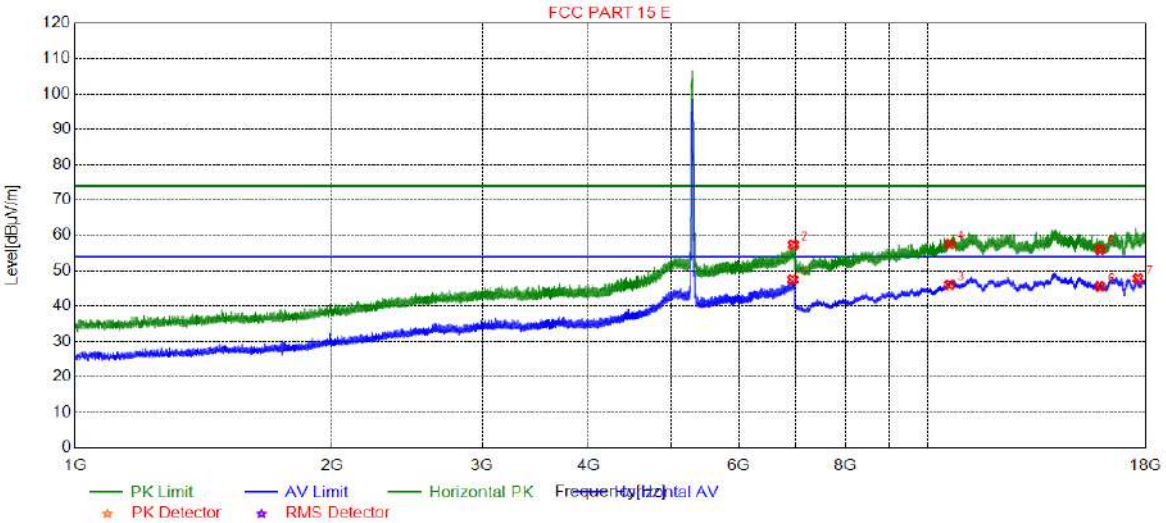
4.9.2.17 11A20_60 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6936.0968	47.53	24.88	54.00	6.47	133	90	Horizontal
2	6950.4975	57.36	25.02	74.00	16.64	237	90	Horizontal
3	10600.000	46.04	1.79	54.00	7.96	244	68	Horizontal
4	10600.000	57.56	1.79	74.00	16.44	199	68	Horizontal
5	15900.000	55.98	3.17	74.00	18.02	162	315	Horizontal
6	15900.000	45.57	3.17	54.00	8.43	196	167	Horizontal
7	17616.080	47.83	4.00	54.00	6.17	107	117	Horizontal

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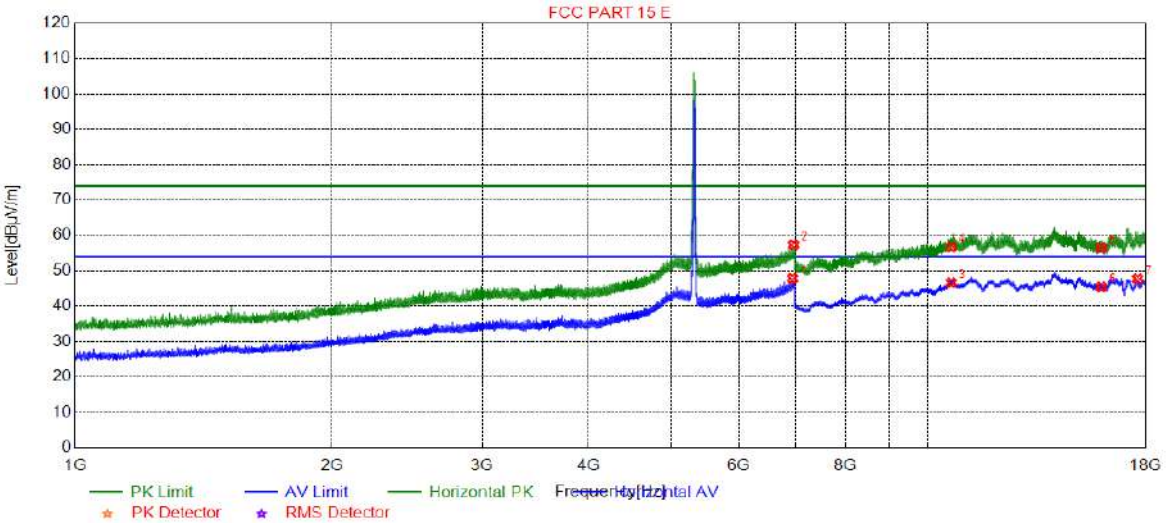
4.9.2.18 11A20_64 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6932.7966	47.86	24.84	54.00	6.14	238	90	Horizontal
2	6954.3977	57.34	25.00	74.00	16.66	158	291	Horizontal
3	10640.000	46.66	1.97	54.00	7.34	115	215	Horizontal
4	10640.000	56.73	1.97	74.00	17.27	144	265	Horizontal
5	15960.000	56.47	3.11	74.00	17.53	184	67	Horizontal
6	15960.000	45.45	3.11	54.00	8.55	207	265	Horizontal
7	17601.780	47.73	4.28	54.00	6.27	204	359	Horizontal

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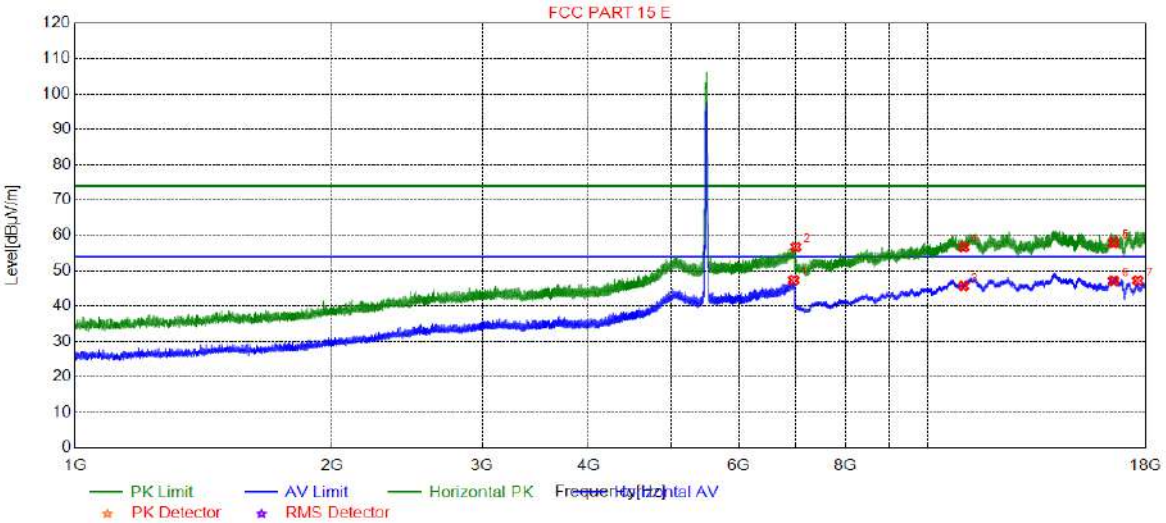
4.9.2.19 11A20_100 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6954.6977	47.37	25.00	54.00	6.63	107	0	Horizontal
2	6995.4998	56.75	24.78	74.00	17.25	229	191	Horizontal
3	11000.000	45.71	2.50	54.00	8.29	159	68	Horizontal
4	11000.000	56.71	2.50	74.00	17.29	173	266	Horizontal
5	16500.000	57.96	2.93	74.00	16.04	180	359	Horizontal
6	16500.000	47.16	2.93	54.00	6.84	118	316	Horizontal
7	17610.580	47.23	4.10	54.00	6.77	182	18	Horizontal

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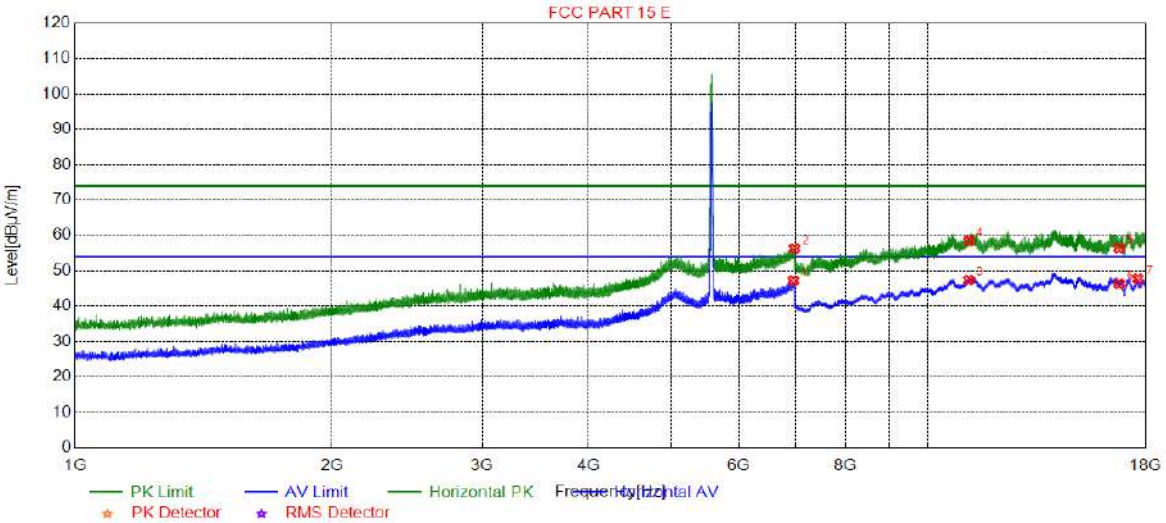
4.9.2.20 11A20_116 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6950.4975	47.21	25.02	54.00	6.79	106	191	Horizontal
2	6975.0988	56.34	24.89	74.00	17.66	164	140	Horizontal
3	11160.000	47.37	2.54	54.00	6.63	136	359	Horizontal
4	11160.000	58.48	2.54	74.00	15.52	183	117	Horizontal
5	16740.000	56.42	2.61	74.00	17.58	241	18	Horizontal
6	16740.000	46.32	2.61	54.00	7.68	159	266	Horizontal
7	17618.280	47.79	3.95	54.00	6.21	220	117	Horizontal

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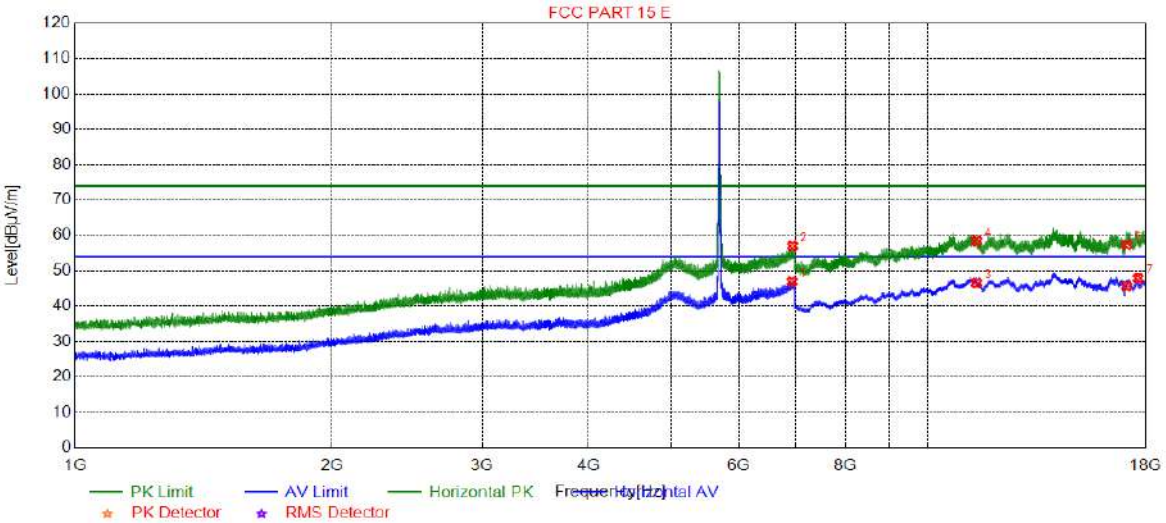
4.9.2.21 11A20_140 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6922.8961	46.95	24.74	54.00	7.05	222	190	Horizontal
2	6933.0967	57.05	24.85	74.00	16.95	111	190	Horizontal
3	11400.000	46.56	3.06	54.00	7.44	134	316	Horizontal
4	11400.000	58.41	3.06	74.00	15.59	107	217	Horizontal
5	17100.000	45.64	1.49	54.00	8.36	208	316	Horizontal
6	17100.000	57.33	1.49	74.00	16.67	185	359	Horizontal
7	17624.331	47.91	3.84	54.00	6.09	198	217	Horizontal

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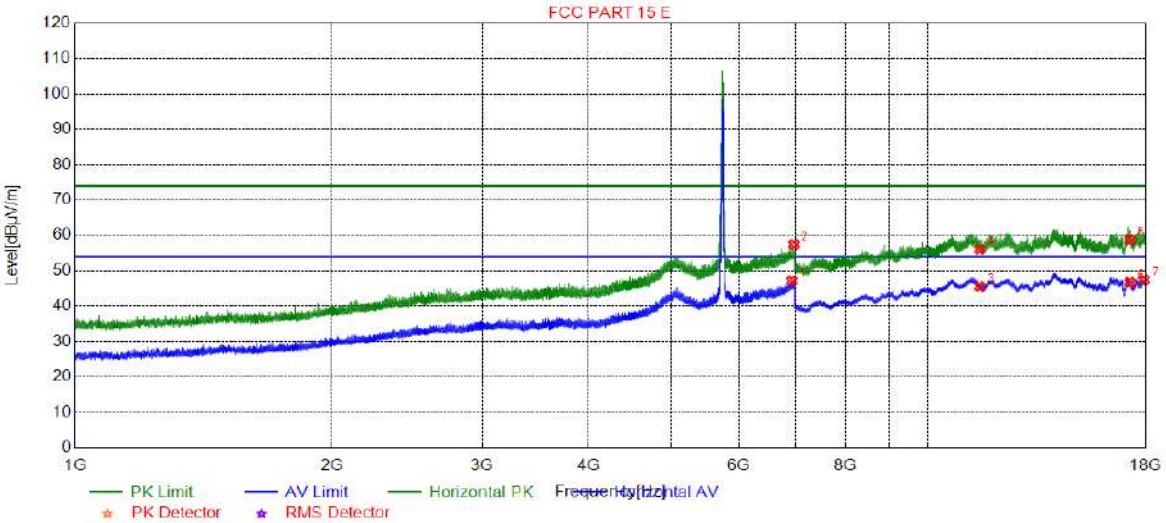
4.9.2.22 11A20_149 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916.8958	47.20	24.68	54.00	6.80	157	342	Horizontal
2	6960.6980	57.45	24.97	74.00	16.55	169	87	Horizontal
3	11490.000	45.56	2.76	54.00	8.44	134	267	Horizontal
4	11490.000	56.08	2.76	74.00	17.92	123	316	Horizontal
5	17235.000	58.75	2.42	74.00	15.25	202	316	Horizontal
6	17235.000	46.76	2.42	54.00	7.24	194	118	Horizontal
7	17906.495	47.45	2.63	54.00	6.55	175	217	Horizontal

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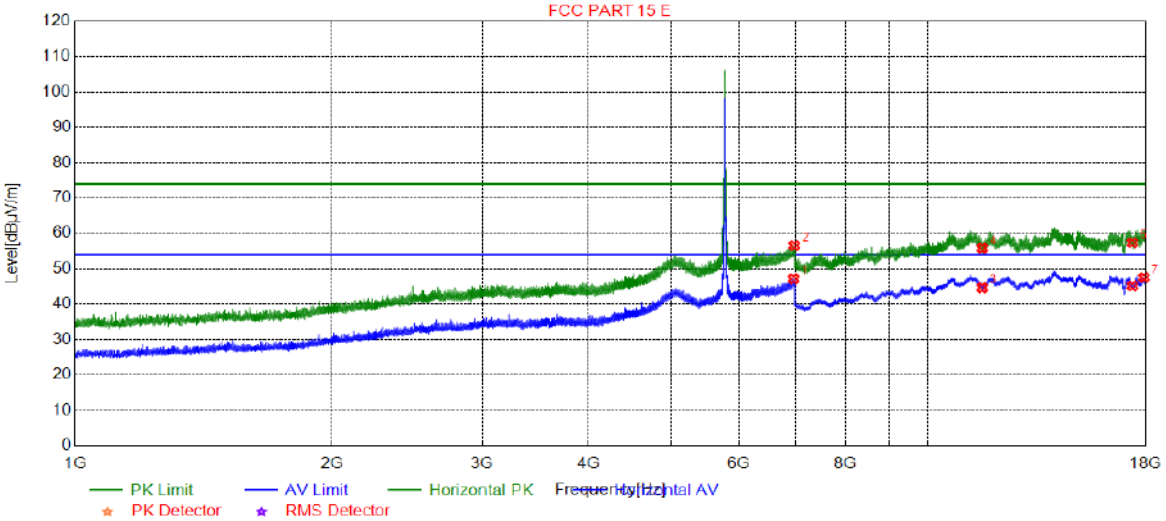
4.9.2.23 11A20_157 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6954.3977	47.17	25.00	54.00	6.83	101	39	Horizontal
2	6966.9984	56.58	24.93	74.00	17.42	245	291	Horizontal
3	11570.000	44.66	2.46	54.00	9.34	172	18	Horizontal
4	11570.000	55.86	2.46	74.00	18.14	183	216	Horizontal
5	17355.000	57.38	1.51	74.00	16.62	114	18	Horizontal
6	17355.000	45.15	1.51	54.00	8.85	170	359	Horizontal
7	17903.195	47.54	2.66	54.00	6.46	118	266	Horizontal

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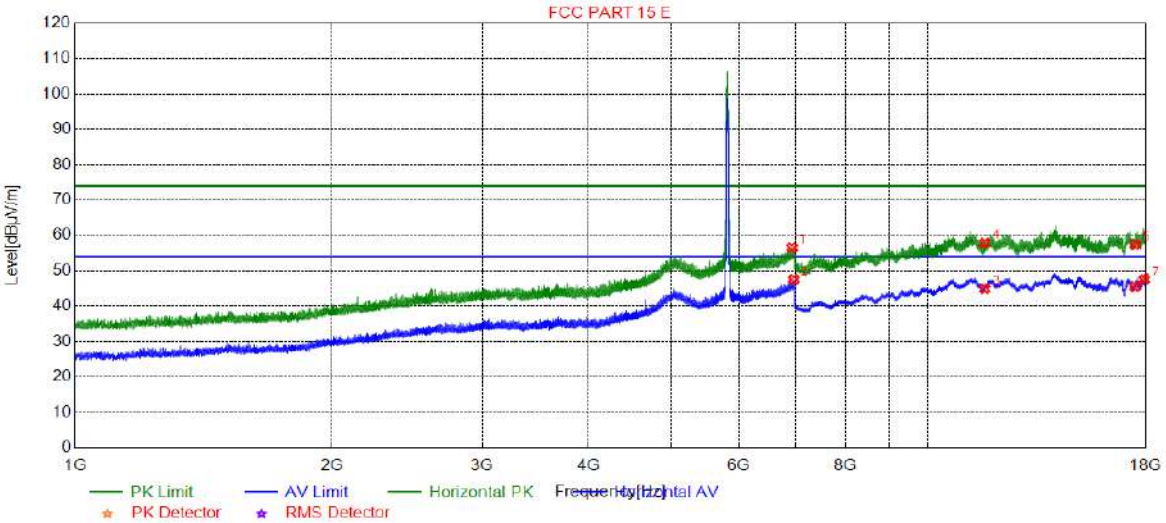
4.9.2.24 11A20_165 ANT 1_ Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6923.7962	56.53	24.75	74.00	17.47	207	241	Horizontal
2	6957.0979	47.54	24.99	54.00	6.46	201	0	Horizontal
3	11650.000	44.89	2.33	54.00	9.11	196	222	Horizontal
4	11650.000	57.91	2.33	74.00	16.09	111	360	Horizontal
5	17475.000	57.42	2.51	74.00	16.58	199	172	Horizontal
6	17475.000	45.49	2.51	54.00	8.51	209	72	Horizontal
7	17919.696	47.55	2.50	54.00	6.45	237	323	Horizontal

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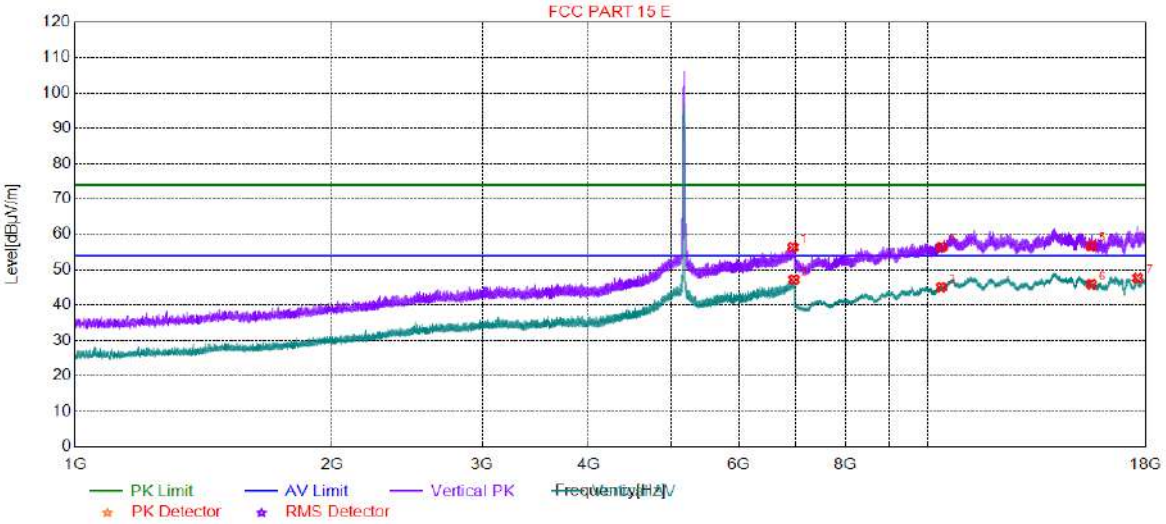
4.9.2.25 11N20_36 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6939.6970	56.39	24.92	74.00	17.61	190	176	Vertical
2	6962.4981	47.24	24.96	54.00	6.76	247	176	Vertical
3	10360.000	45.06	1.04	54.00	8.94	288	1	Vertical
4	10360.000	56.44	1.04	74.00	17.56	232	1	Vertical
5	15540.000	56.72	3.88	74.00	17.28	175	293	Vertical
6	15540.000	45.91	3.88	54.00	8.09	278	144	Vertical
7	17608.380	47.67	4.15	54.00	6.33	151	144	Vertical

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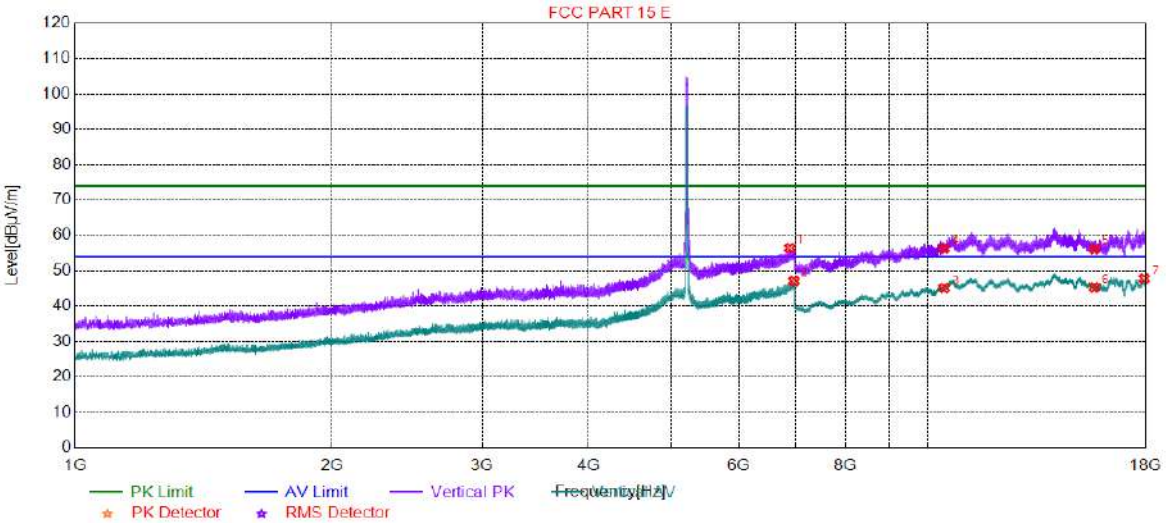
4.9.2.26 11N20_44 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6884.7942	56.44	24.42	74.00	17.56	258	173	Vertical
2	6960.6980	47.10	24.97	54.00	6.90	189	122	Vertical
3	10440.000	45.10	1.08	54.00	8.90	188	191	Vertical
4	10440.000	56.34	1.08	74.00	17.66	153	0	Vertical
5	15660.000	56.15	3.30	74.00	17.85	282	141	Vertical
6	15660.000	45.26	3.30	54.00	8.74	205	240	Vertical
7	17916.945	47.82	2.53	54.00	6.18	162	91	Vertical

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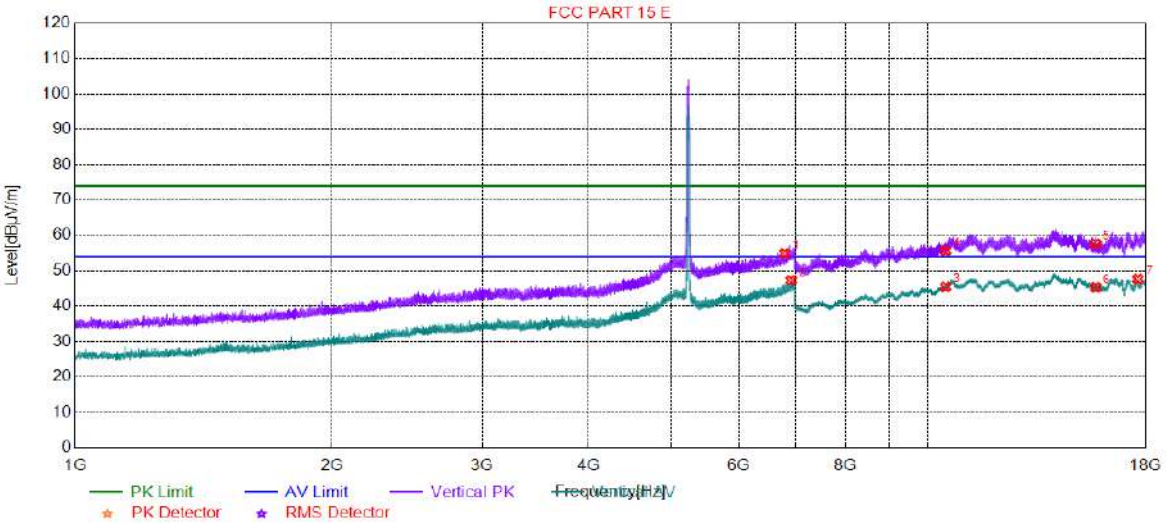
4.9.2.27 11N20_48 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6788.7894	54.89	23.83	74.00	19.11	278	270	Vertical
2	6907.8954	47.32	24.58	54.00	6.68	273	270	Vertical
3	10480.000	45.46	1.20	54.00	8.54	168	293	Vertical
4	10480.000	55.67	1.20	74.00	18.33	200	0	Vertical
5	15720.000	57.62	3.11	74.00	16.38	187	144	Vertical
6	15720.000	45.32	3.11	54.00	8.68	291	144	Vertical
7	17616.080	47.66	4.00	54.00	6.34	200	293	Vertical

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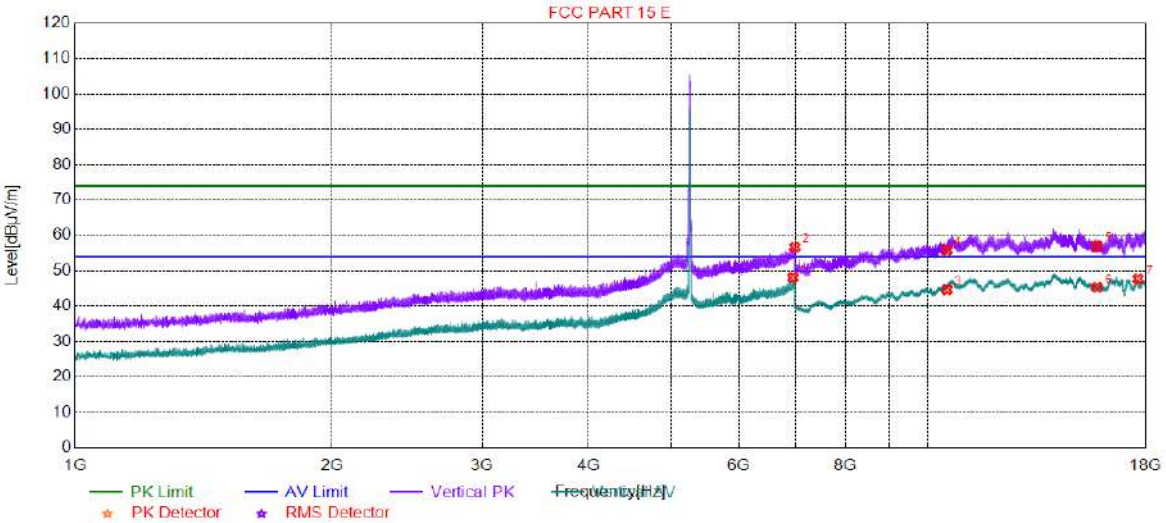
4.9.2.28 11N20_52 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6939.0970	48.11	24.91	54.00	5.89	195	320	Vertical
2	6979.2990	56.70	24.87	74.00	17.30	166	169	Vertical
3	10520.000	44.68	1.37	54.00	9.32	196	94	Vertical
4	10520.000	55.87	1.37	74.00	18.13	265	143	Vertical
5	15780.000	57.08	2.82	74.00	16.92	213	1	Vertical
6	15780.000	45.33	2.82	54.00	8.67	247	342	Vertical
7	17623.781	47.72	3.85	54.00	6.28	219	243	Vertical

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