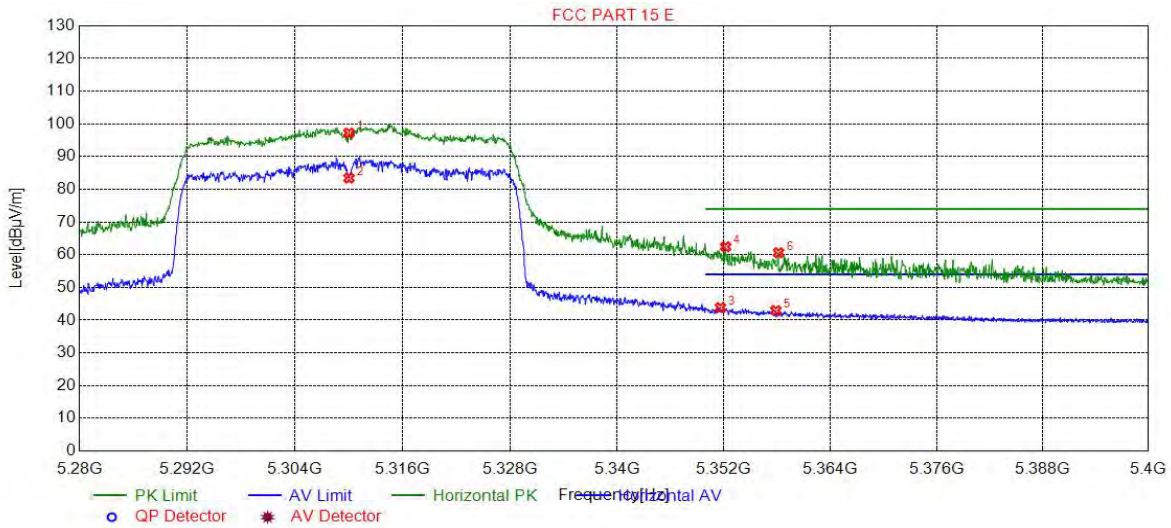
4.10.1.71 802.11AC40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	97.25	0.00	-97.25	150	340	Horizontal
2	5310.000	83.45	0.00	-83.45	150	340	Horizontal
3	5351.615	43.87	54.00	10.13	150	288	Horizontal
4	5352.216	62.44	74.00	11.56	150	302	Horizontal
5	5357.858	42.95	54.00	11.05	150	293	Horizontal
6	5358.159	60.64	74.00	13.36	150	302	Horizontal

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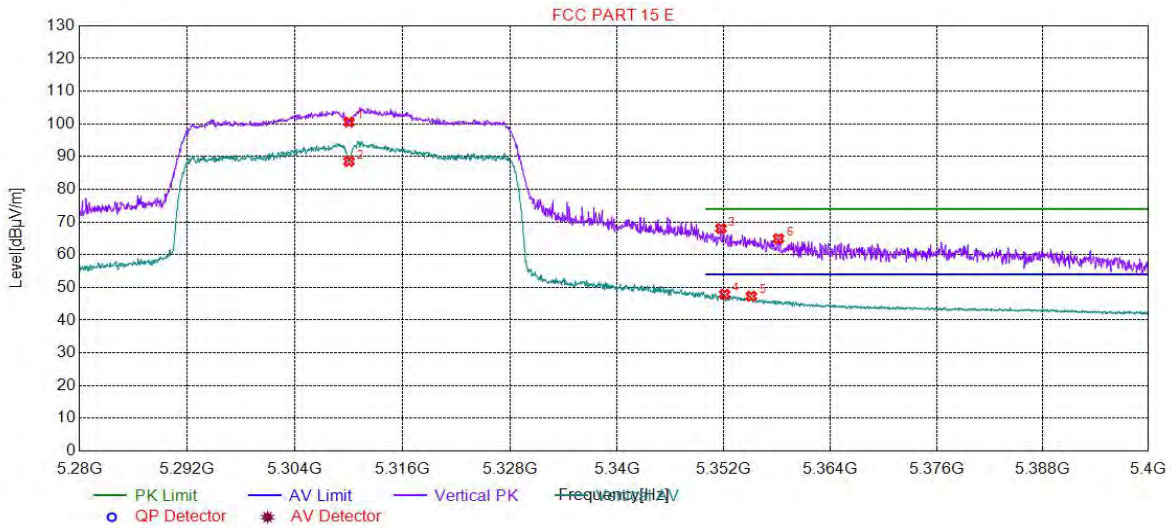
4.10.1.72 802.11AC40_Channel 62 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5310.000	100.56	0.00	-100.56	150	167	Vertical
2	5310.000	88.54	0.00	-88.54	150	167	Vertical
3	5351.675	68.03	74.00	5.97	150	167	Vertical
4	5352.096	47.94	54.00	6.06	150	148	Vertical
5	5355.097	47.34	54.00	6.66	150	157	Vertical
6	5358.159	64.92	74.00	9.08	150	139	Vertical

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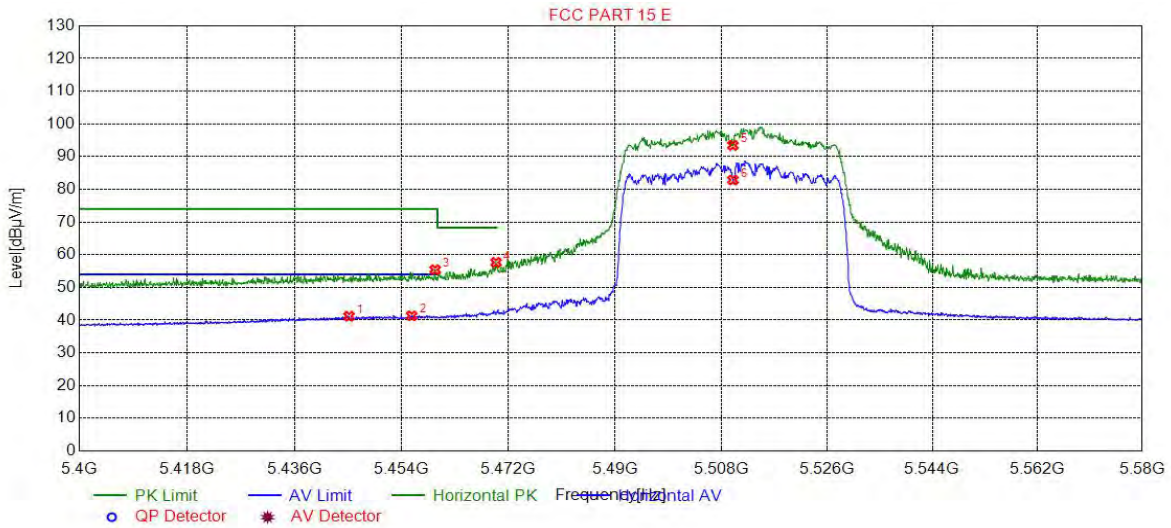
4.10.1.73 802.11AC40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5445.112	41.21	54.00	12.79	150	278	Horizontal
2	5455.647	41.33	54.00	12.67	150	278	Horizontal
3	5459.609	55.43	74.00	18.57	150	278	Horizontal
4	5469.874	57.67	68.30	10.63	150	288	Horizontal
5	5510.000	93.43	0.00	-93.43	150	278	Horizontal
6	5510.000	82.87	0.00	-82.87	150	283	Horizontal

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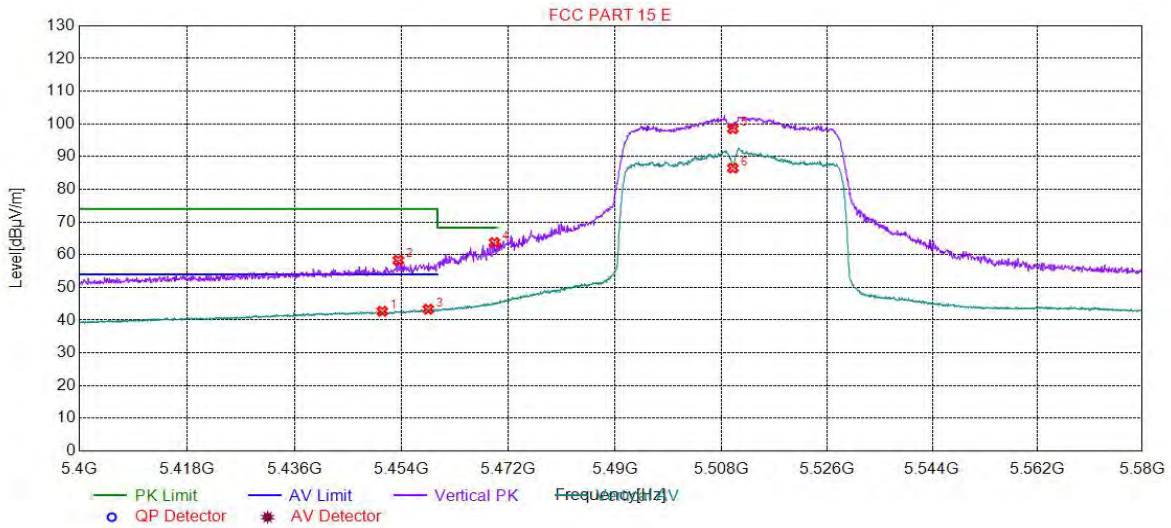
4.10.1.74 802.11AC40_Channel 102 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5450.695	42.72	54.00	11.28	150	152	Vertical
2	5453.396	58.32	74.00	15.68	150	148	Vertical
3	5458.439	43.35	54.00	10.65	150	119	Vertical
4	5469.604	63.73	68.30	4.57	150	114	Vertical
5	5510.000	98.53	0.00	-98.53	150	123	Vertical
6	5510.000	86.50	0.00	-86.50	150	123	Vertical

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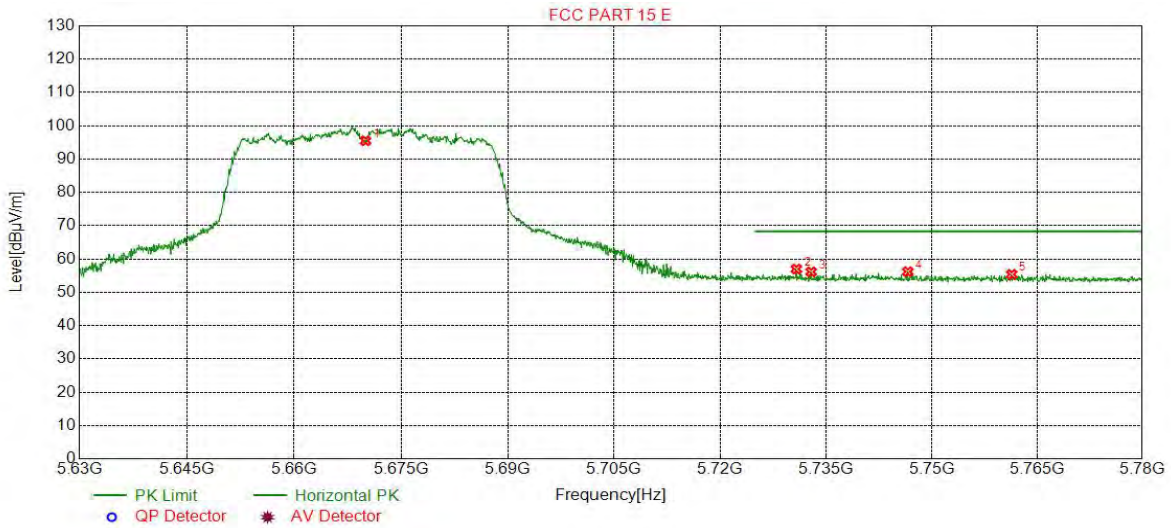
4.10.1.75 802.11AC40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	95.50	0.00	-95.50	150	260	Horizontal
2	5730.775	57.00	68.30	11.30	150	263	Horizontal
3	5732.876	56.16	68.30	12.14	150	267	Horizontal
4	5746.608	56.21	68.30	12.09	150	295	Horizontal
5	5761.390	55.40	68.30	12.90	150	2	Horizontal

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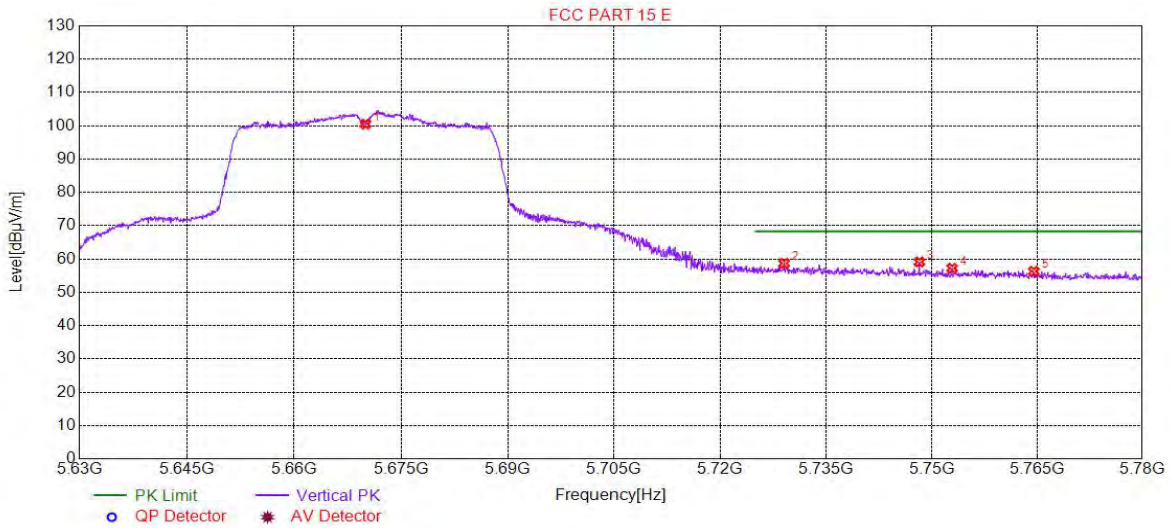
4.10.1.76 802.11AC40_Channel 134 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5670.000	100.53	0.00	-100.53	150	107	Vertical
2	5729.049	58.74	68.30	9.56	150	93	Vertical
3	5748.259	59.13	68.30	9.17	150	104	Vertical
4	5752.911	57.24	68.30	11.06	150	142	Vertical
5	5764.542	56.32	68.30	11.98	150	139	Vertical

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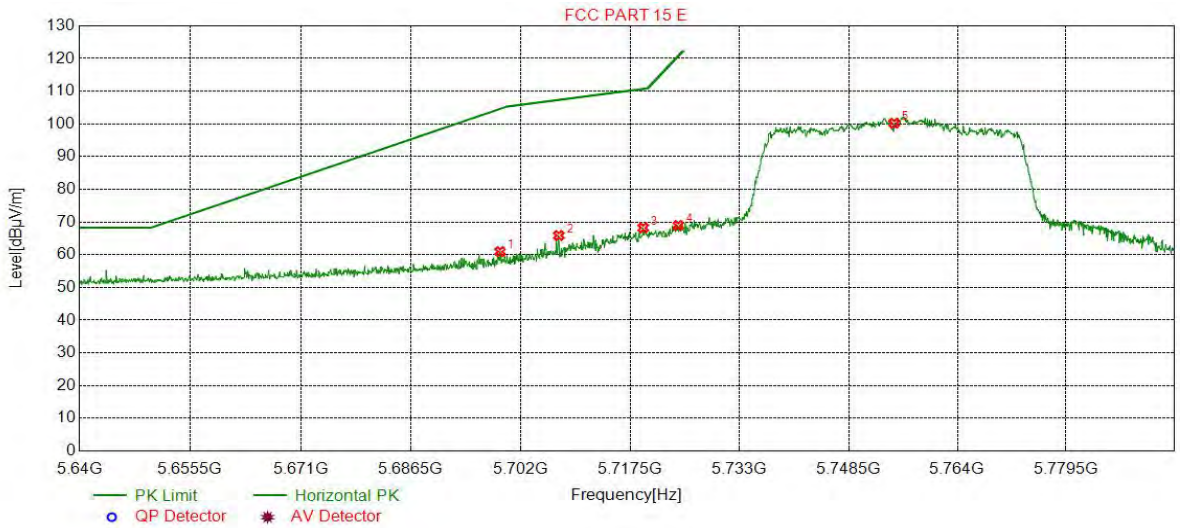
4.10.1.77 802.11AC40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5699.084	60.98	104.62	43.64	150	77	Horizontal
2	5707.381	65.90	107.37	41.47	150	330	Horizontal
3	5719.322	68.25	110.71	42.46	150	330	Horizontal
4	5724.284	68.98	120.67	51.69	150	0	Horizontal
5	5755.000	100.22	0.00	-100.22	150	264	Horizontal

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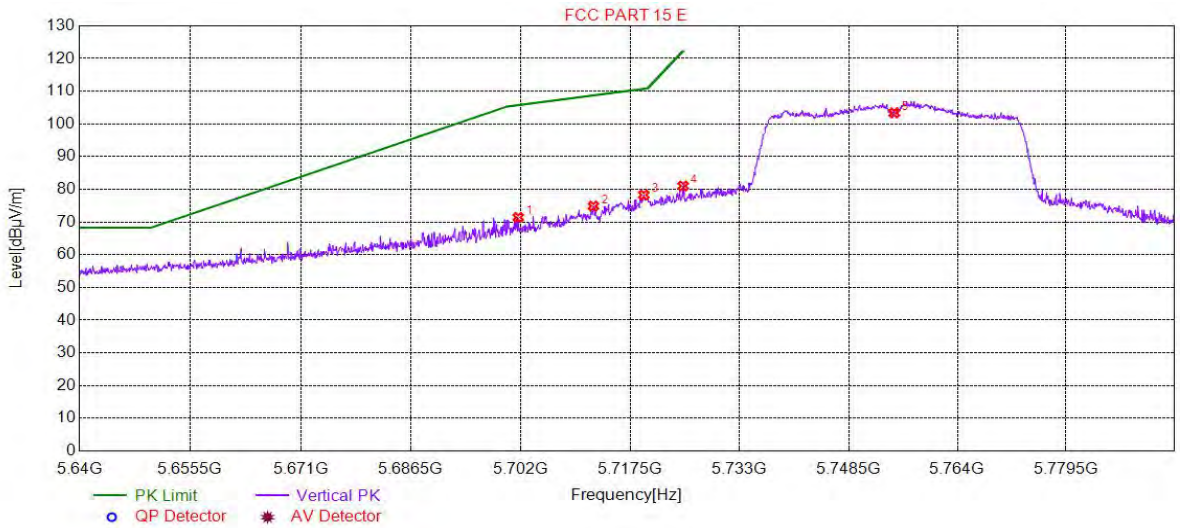
4.10.1.78 802.11AC40_Channel 151 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5701.643	71.42	105.76	34.34	150	110	Vertical
2	5712.266	74.89	108.73	33.84	150	103	Vertical
3	5719.399	78.29	110.73	32.44	150	100	Vertical
4	5724.982	81.04	122.26	41.22	150	92	Vertical
5	5755.000	103.38	0.00	-103.38	150	96	Vertical

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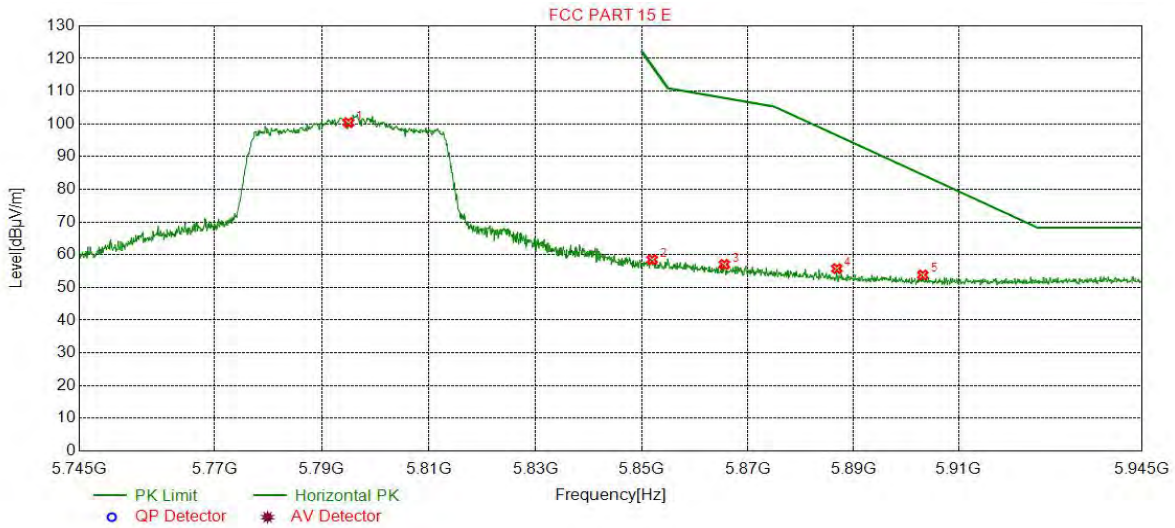
4.10.1.79 802.11AC40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	100.39	0.00	-100.39	150	264	Horizontal
2	5851.953	58.49	117.85	59.36	150	260	Horizontal
3	5865.560	57.04	107.94	50.90	150	260	Horizontal
4	5886.870	55.77	96.52	40.75	150	264	Horizontal
5	5903.179	53.82	84.45	30.63	150	257	Horizontal

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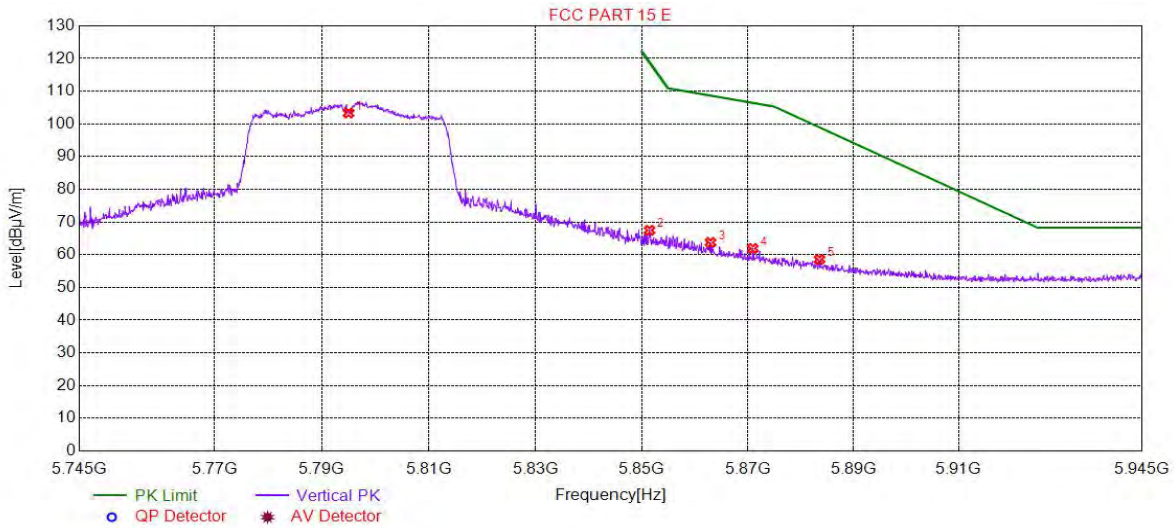
4.10.1.80 802.11AC40_Channel 159 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5795.000	103.33	0.00	-103.33	150	100	Vertical
2	5851.453	67.49	118.99	51.50	150	82	Vertical
3	5862.959	63.75	108.67	44.92	150	79	Vertical
4	5870.963	61.93	106.43	44.50	150	103	Vertical
5	5883.569	58.58	98.96	40.38	150	75	Vertical

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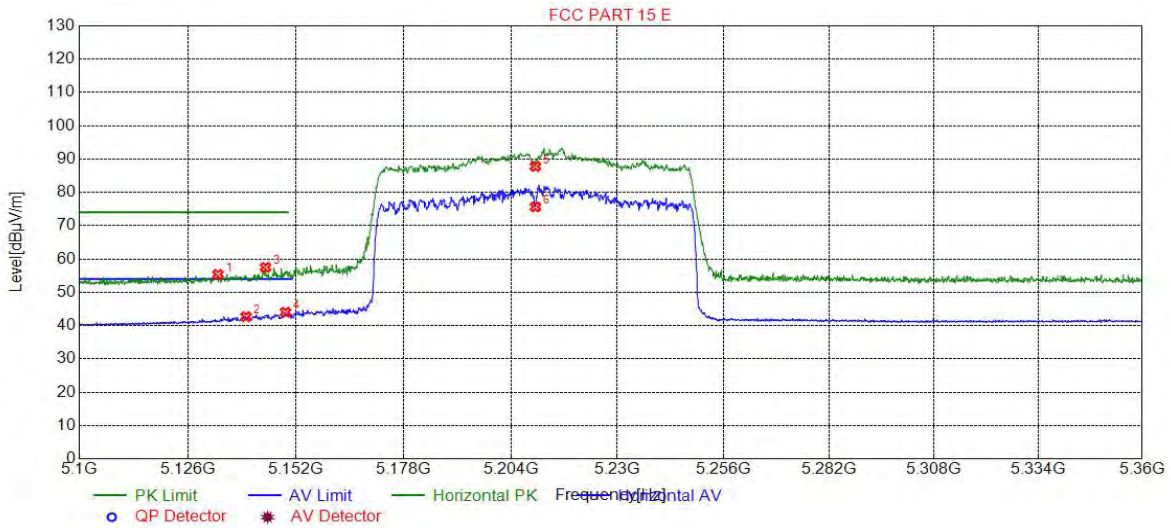
4.10.1.81 802.11AC80_Channel 42 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5133.166	55.38	74.00	18.62	150	344	Horizontal
2	5139.930	42.71	54.00	11.29	150	120	Horizontal
3	5144.612	57.50	74.00	16.50	150	120	Horizontal
4	5149.424	44.03	54.00	9.97	150	120	Horizontal
5	5210.000	87.79	0.00	-87.79	150	335	Horizontal
6	5210.000	75.65	0.00	-75.65	150	101	Horizontal

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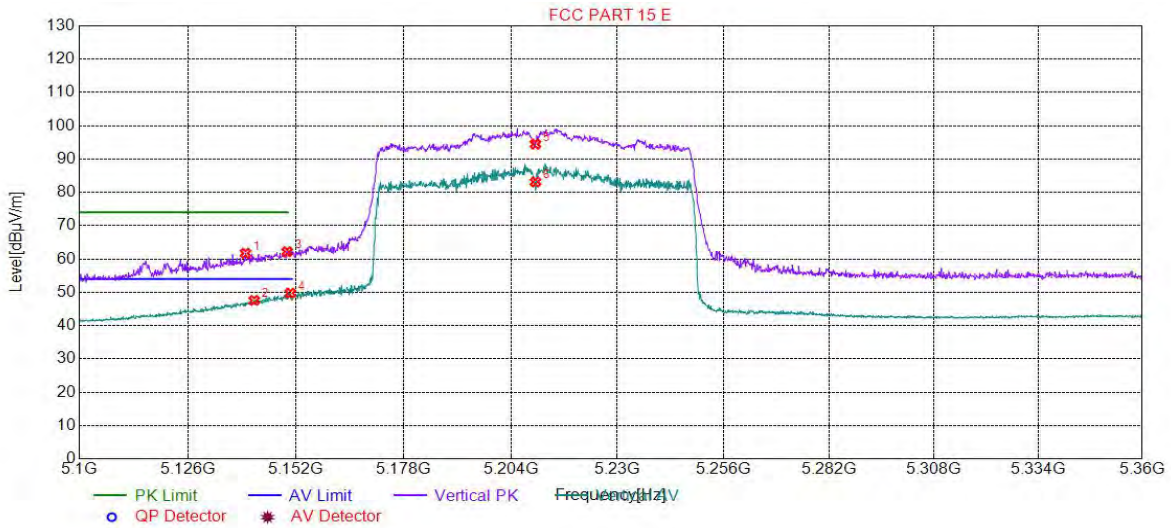
4.10.1.82 802.11AC80_Channel 42 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5139.799	61.74	74.00	12.26	150	158	Vertical
2	5141.880	47.59	54.00	6.41	150	148	Vertical
3	5149.814	62.18	74.00	11.82	150	143	Vertical
4	5150.595	49.76	54.00	4.24	150	162	Vertical
5	5210.000	94.49	0.00	-94.49	150	129	Vertical
6	5210.000	83.15	0.00	-83.15	150	148	Vertical

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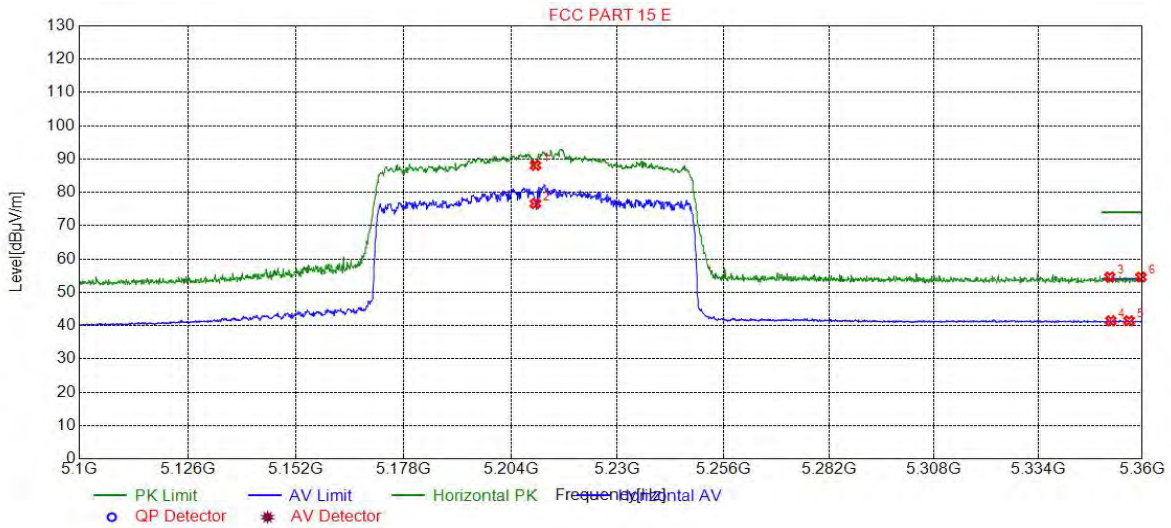
4.10.1.83 802.11AC80_Channel 42 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	88.11	0.00	-88.11	150	110	Horizontal
2	5210.000	76.65	0.00	-76.65	150	120	Horizontal
3	5351.936	54.61	74.00	19.39	150	277	Horizontal
4	5352.196	41.48	54.00	12.52	150	340	Horizontal
5	5356.748	41.48	54.00	12.52	150	335	Horizontal
6	5359.739	54.59	74.00	19.41	150	344	Horizontal

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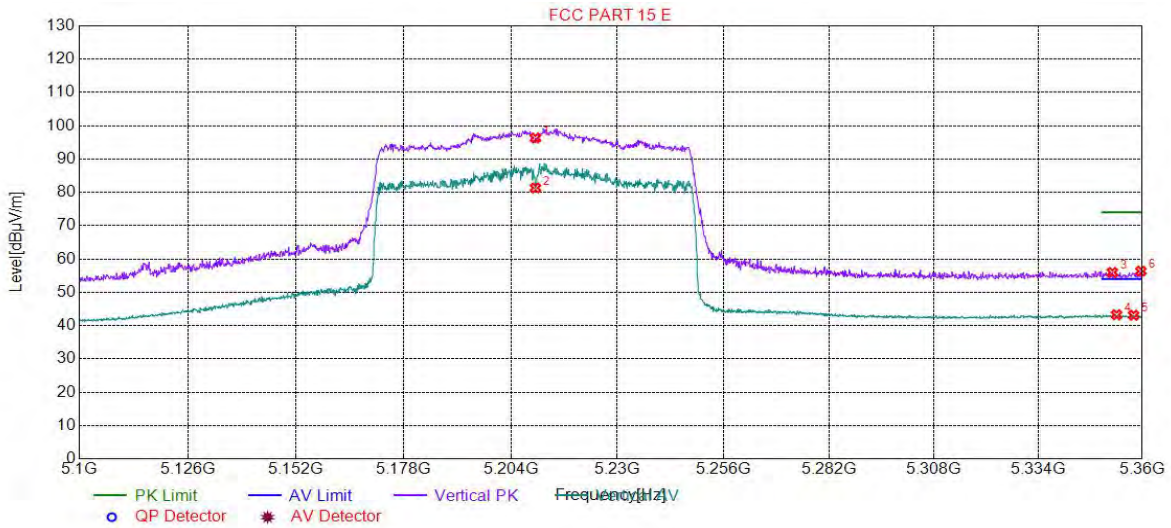
4.10.1.84 802.11AC80_Channel 42 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5210.000	96.34	0.00	-96.34	150	165	Vertical
2	5210.000	81.34	0.00	-81.34	150	131	Vertical
3	5352.586	55.99	74.00	18.01	150	136	Vertical
4	5353.626	43.29	54.00	10.71	150	118	Vertical
5	5357.919	43.14	54.00	10.86	150	155	Vertical
6	5359.739	56.37	74.00	17.63	150	126	Vertical

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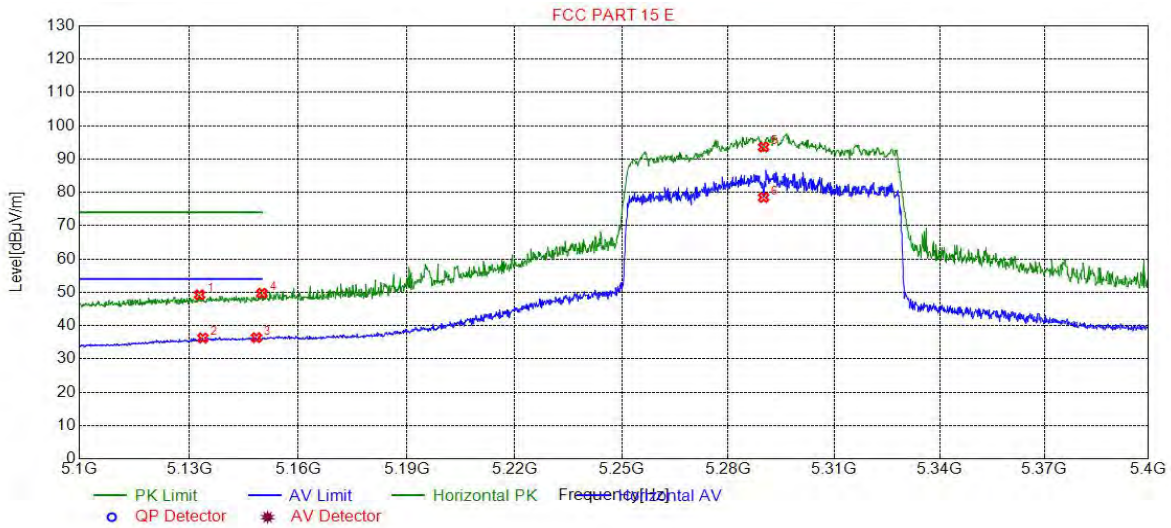
4.10.1.85 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5132.866	49.26	74.00	24.74	150	112	Horizontal
2	5133.766	36.31	54.00	17.69	150	117	Horizontal
3	5148.474	36.40	54.00	17.60	150	117	Horizontal
4	5149.975	49.72	74.00	24.28	150	126	Horizontal
5	5290.000	93.62	0.00	-93.62	150	340	Horizontal
6	5290.000	78.46	0.00	-78.46	150	126	Horizontal

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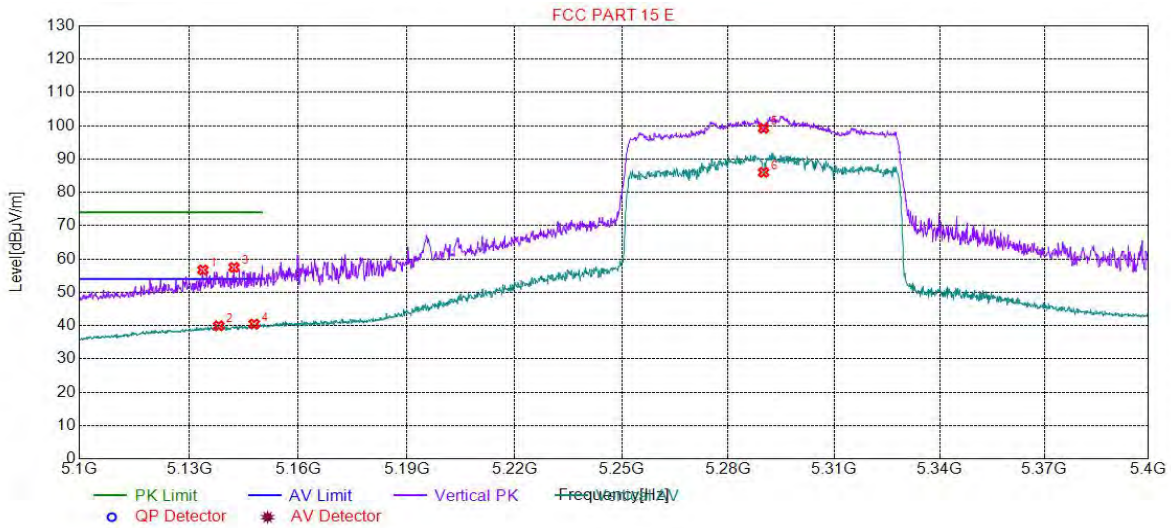
4.10.1.86 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5133.766	56.73	74.00	17.27	150	126	Vertical
2	5138.119	39.95	54.00	14.05	150	164	Vertical
3	5142.321	57.50	74.00	16.50	150	126	Vertical
4	5147.873	40.49	54.00	13.51	150	159	Vertical
5	5290.000	99.27	0.00	-99.27	150	126	Vertical
6	5290.000	86.01	0.00	-86.01	150	126	Vertical

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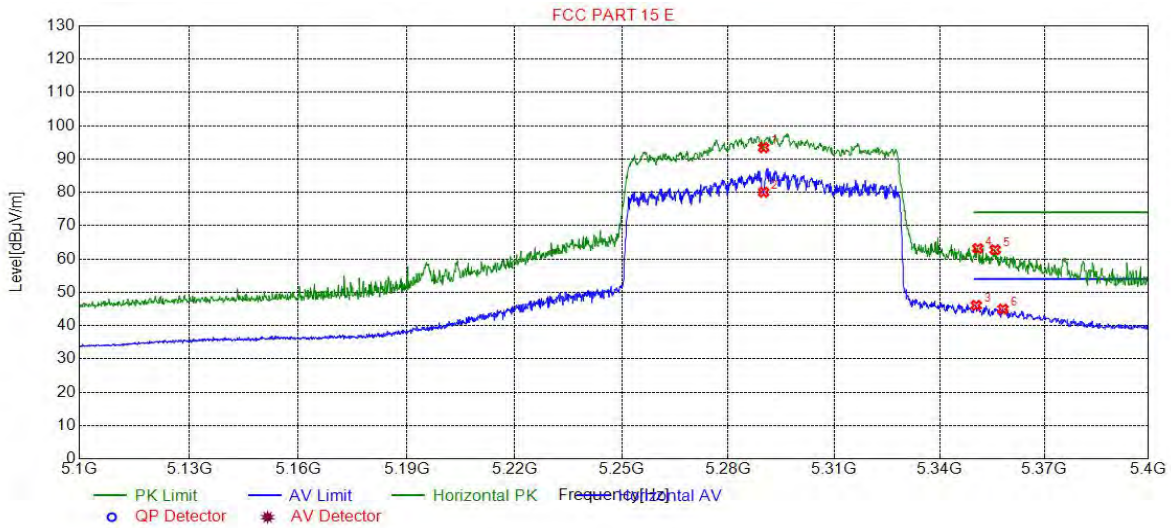
4.10.1.87 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	93.45	0.00	-93.45	150	340	Horizontal
2	5290.000	80.06	0.00	-80.06	150	335	Horizontal
3	5350.475	46.10	54.00	7.90	150	286	Horizontal
4	5350.925	63.17	74.00	10.83	150	340	Horizontal
5	5355.877	62.79	74.00	11.21	150	340	Horizontal
6	5358.129	44.97	54.00	9.03	150	286	Horizontal

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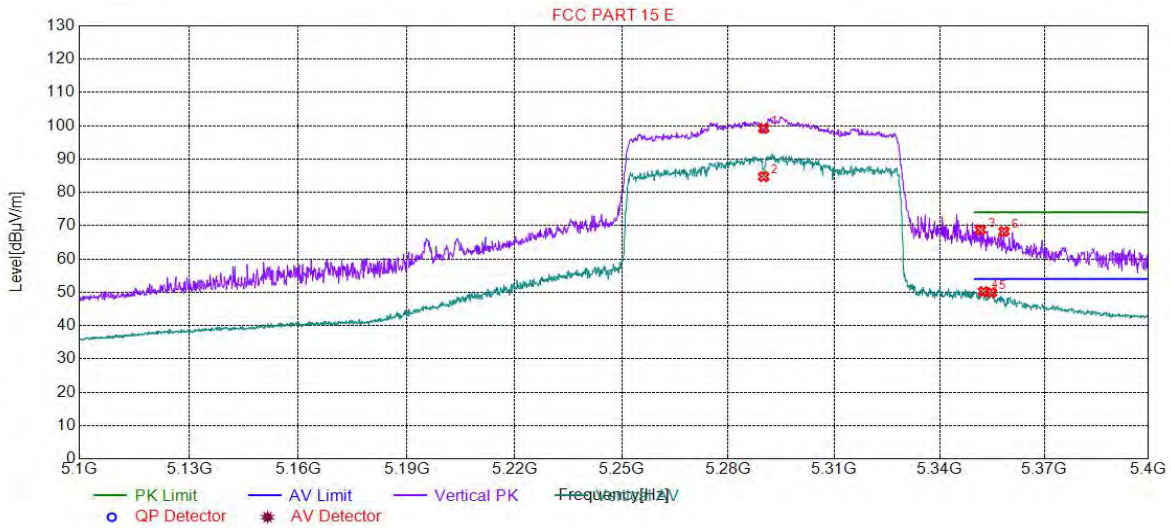
4.10.1.88 802.11AC80_Channel 58 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5290.000	99.23	0.00	-99.23	150	144	Vertical
2	5290.000	84.72	0.00	-84.72	150	82	Vertical
3	5351.675	68.77	74.00	5.23	150	120	Vertical
4	5352.576	50.23	54.00	3.77	150	153	Vertical
5	5354.827	49.94	54.00	4.06	150	158	Vertical
6	5358.429	68.26	74.00	5.74	150	115	Vertical

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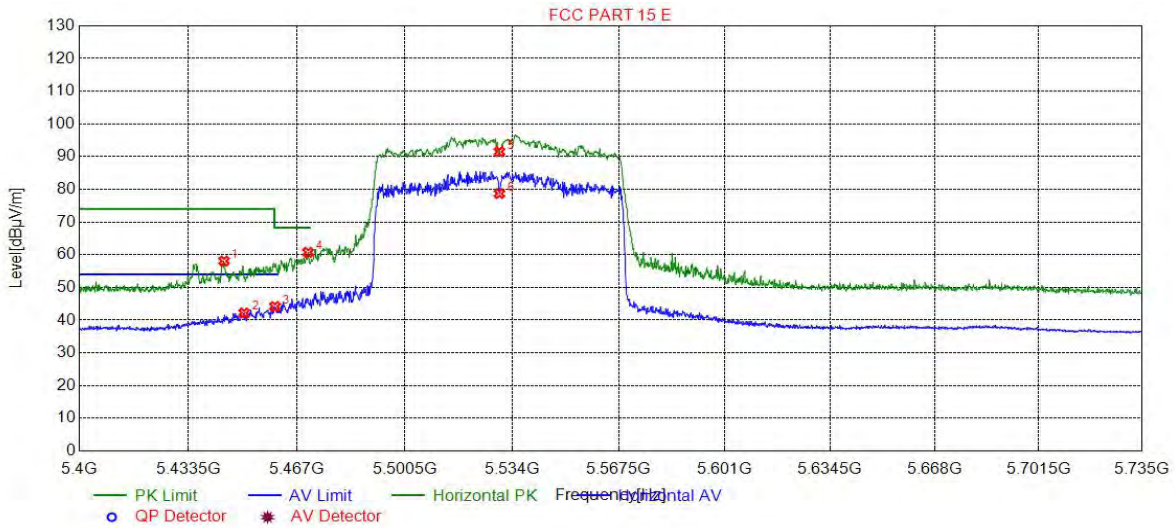
4.10.1.89 802.11AC80_Channel 106 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5444.409	58.10	74.00	15.90	150	287	Horizontal
2	5450.610	42.22	54.00	11.78	150	287	Horizontal
3	5460.162	44.18	54.00	9.82	150	292	Horizontal
4	5470.385	60.74	68.30	7.56	150	340	Horizontal
5	5530.000	91.51	0.00	-91.51	150	278	Horizontal
6	5530.000	78.72	0.00	-78.72	150	340	Horizontal

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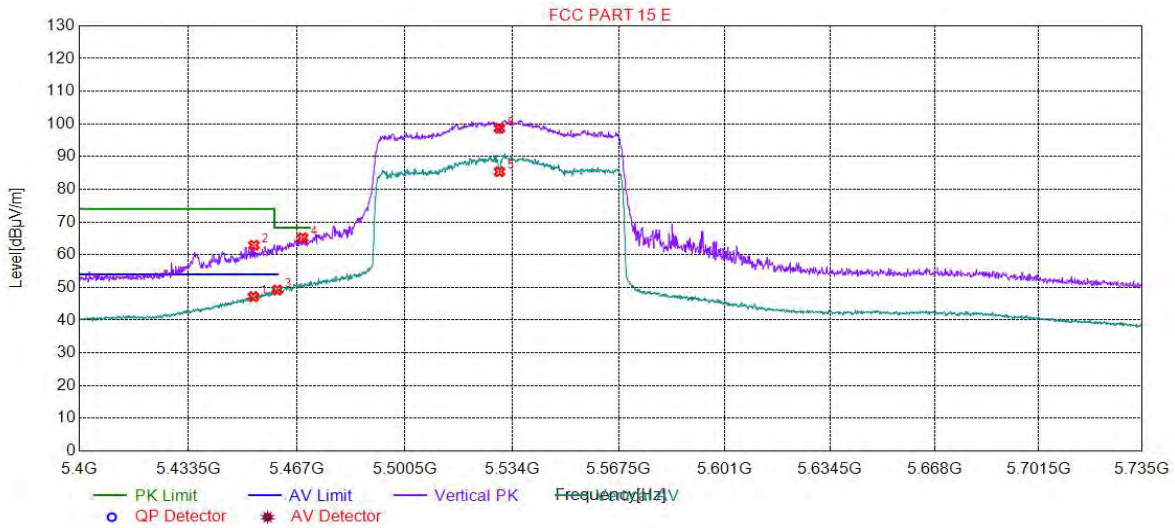
4.10.1.90 802.11AC80_Channel 106 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5453.459	47.18	54.00	6.82	150	153	Vertical
2	5453.626	62.91	74.00	11.09	150	143	Vertical
3	5460.832	49.23	54.00	4.77	150	143	Vertical
4	5468.709	65.18	68.30	3.12	150	153	Vertical
5	5530.000	85.38	0.00	-85.38	150	91	Vertical
6	5530.000	98.67	0.00	-98.67	150	172	Vertical

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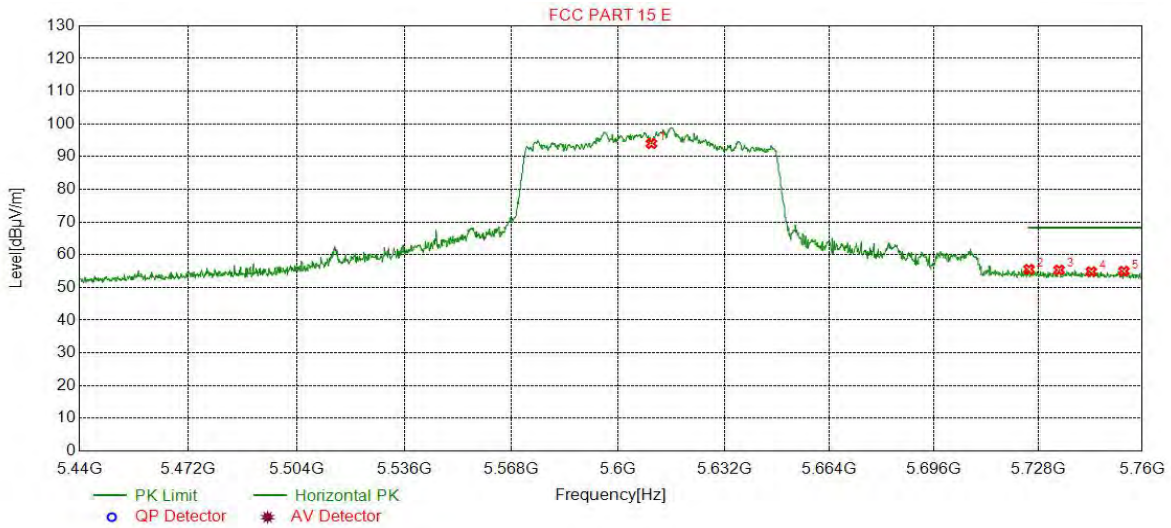
4.10.1.91 802.11AC80_Channel 122 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	93.99	0.00	-93.99	150	334	Horizontal
2	5725.102	55.56	68.30	12.74	150	285	Horizontal
3	5734.387	55.34	68.30	12.96	150	267	Horizontal
4	5744.312	54.83	68.30	13.47	150	267	Horizontal
5	5754.397	54.99	68.30	13.31	150	344	Horizontal

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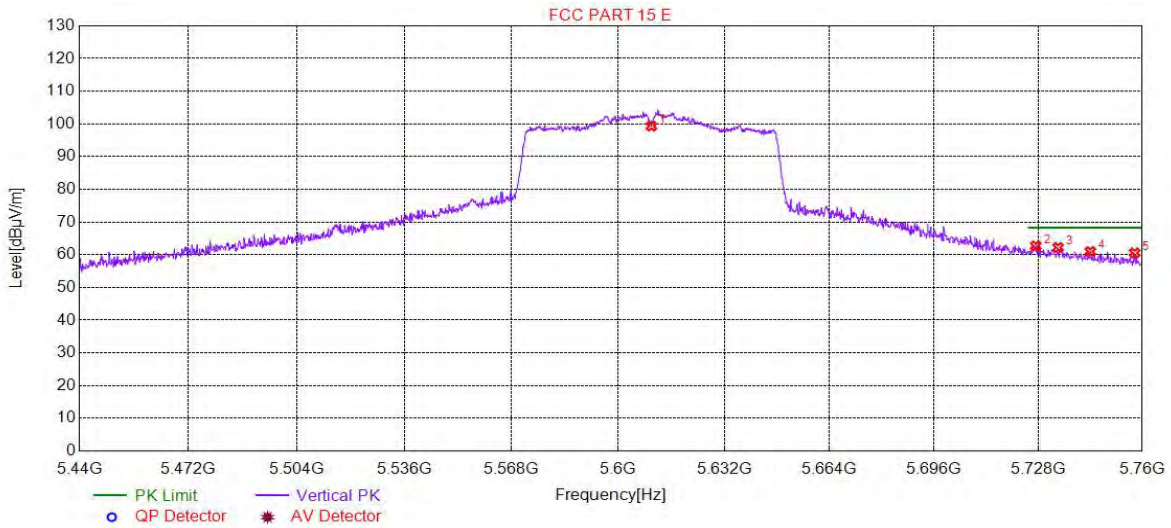
4.10.1.92 802.11AC80_Channel 122 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5610.000	99.33	0.00	-99.33	150	143	Vertical
2	5727.183	62.71	68.30	5.59	150	114	Vertical
3	5734.067	62.25	68.30	6.05	150	93	Vertical
4	5743.992	60.99	68.30	7.31	150	90	Vertical
5	5757.758	60.59	68.30	7.71	150	114	Vertical

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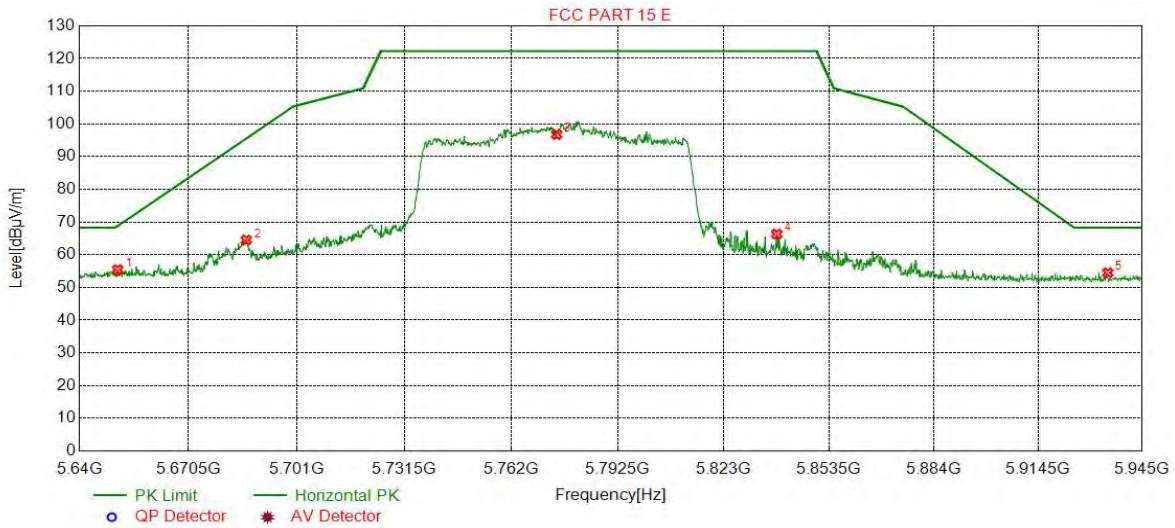
4.10.1.93 802.11AC80_Channel 155 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.680	55.46	68.80	13.34	150	280	Horizontal
2	5686.840	64.51	95.56	31.05	150	288	Horizontal
3	5775.000	96.80	122.30	25.50	150	260	Horizontal
4	5838.349	66.34	122.30	55.96	150	291	Horizontal
5	5934.930	54.52	68.30	13.78	150	305	Horizontal

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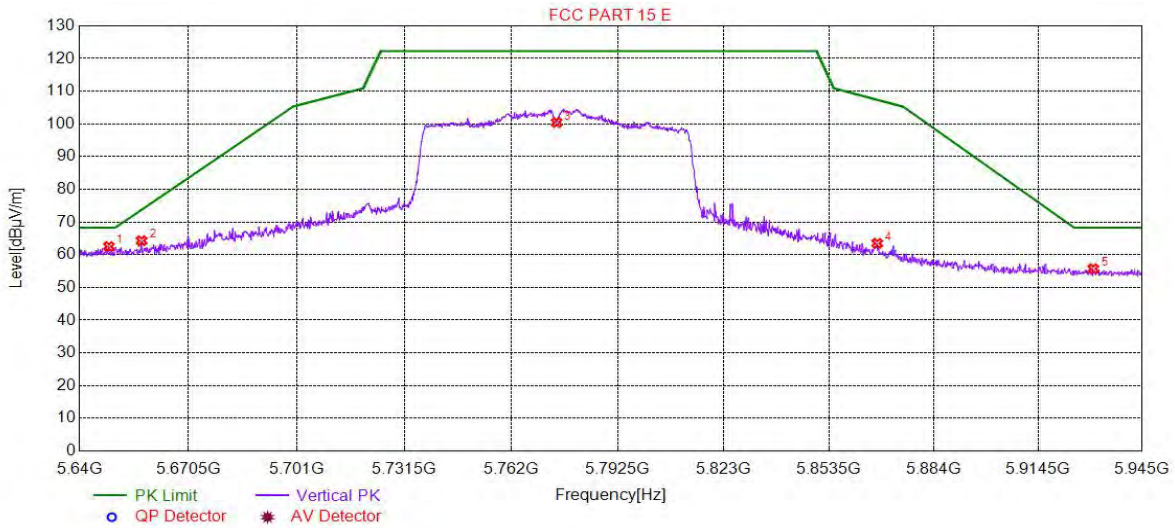
4.10.1.94 802.11AC80_Channel 155 MIMO



NO.	Freq. [MHz]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5648.239	62.52	68.30	5.78	150	108	Vertical
2	5657.393	64.29	73.77	9.48	150	94	Vertical
3	5775.000	100.45	122.30	21.85	150	90	Vertical
4	5867.491	63.49	107.40	43.91	150	76	Vertical
5	5930.657	55.74	68.30	12.56	150	169	Vertical

Final Data List

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
All modes have been tested, but only the worst case data displayed in this report.

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4.11 Frequencies Stability

4.11.1 Frequency Error vs. Voltage

Test Conditions	Measured Frequency (MHz)	
	5180	5825
V nom(V)	5180.008762	5825.001070
V max(V)	5180.009785	5825.004010
V min(V)	5180.017646	5825.011985
Max. Deviation Frequency	0.017646	0.011985
Max. Frequency Error (ppm)	3.406613	2.057581

4.11.2 Frequency Error vs. Temperature

Test Conditions	Measured Frequency (MHz)	
	5180	5825
-5	5180.009121	5825.001486
5	5180.017491	5825.011292
15	5180.025282	5825.020345
25	5180.029031	5825.021230
35	5180.035983	5825.027251
45	5180.040888	5825.036708
50	5180.041920	5825.038933
Max. Deviation Frequency	0.041920	0.038933
Max. Frequency Error (ppm)	8.092752	6.683802

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4.12Dynamic Frequency Selection

4.12.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

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
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	**Master Device or Client with Radar Detection**	**Client Without Radar Detection**
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

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4.12.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	**Value (See Notes 1, 2, and 3)**
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. **Note 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. **Note3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

4.12.3 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	**Value**
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* 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. **Note 3:** During the *U-NII Detection Bandwidth* 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.	

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4.12.4 Test plots

4.12.4.1 DFS Detection Thresholds

4.12.4.1.1 Test Result

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11AC20SISO	5320	Type0	-62.63	-61.00	PASS
	5500	Type0	-61.44	-61.00	PASS
11AC80SISO	5290	Type0	-61.26	-61.00	PASS
	5530	Type0	-61.62	-61.00	PASS

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4.12.4.1.2 Test Graphs

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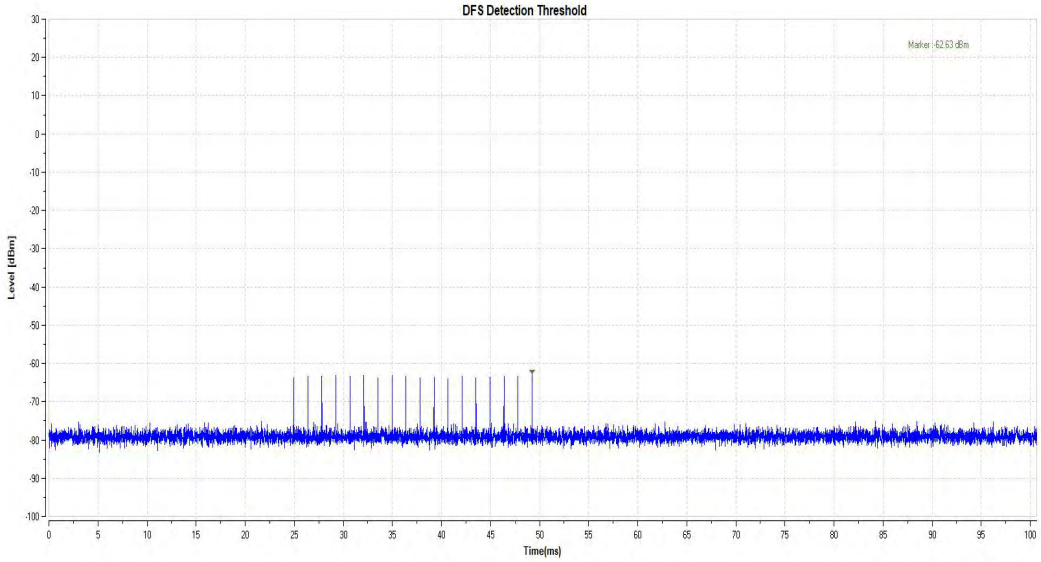

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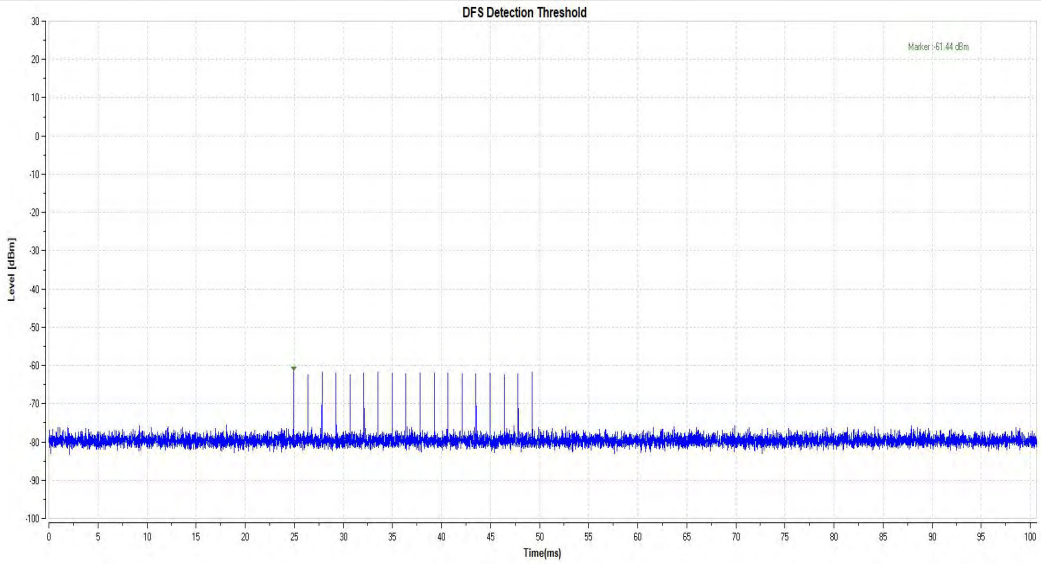

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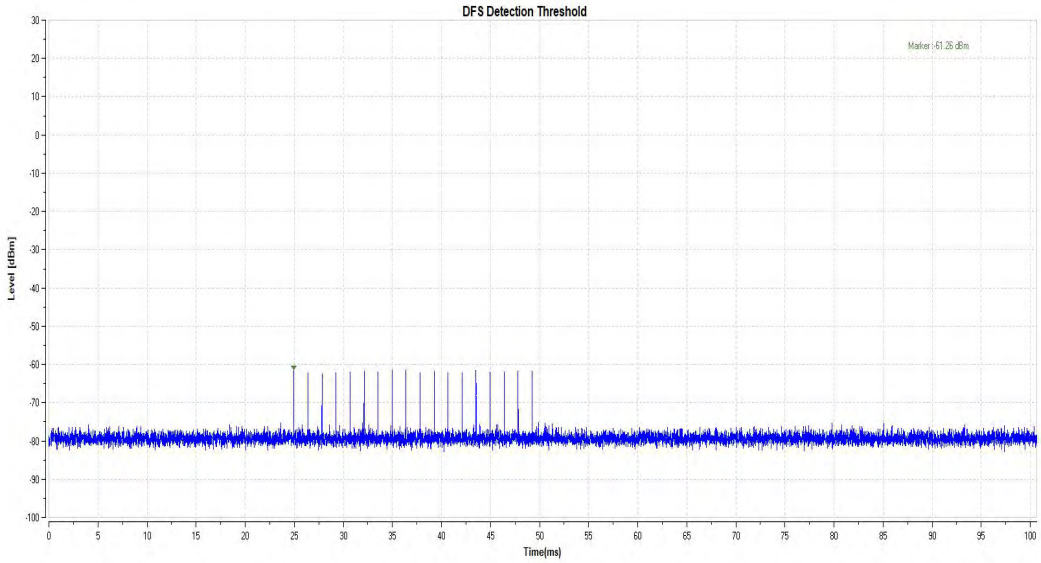

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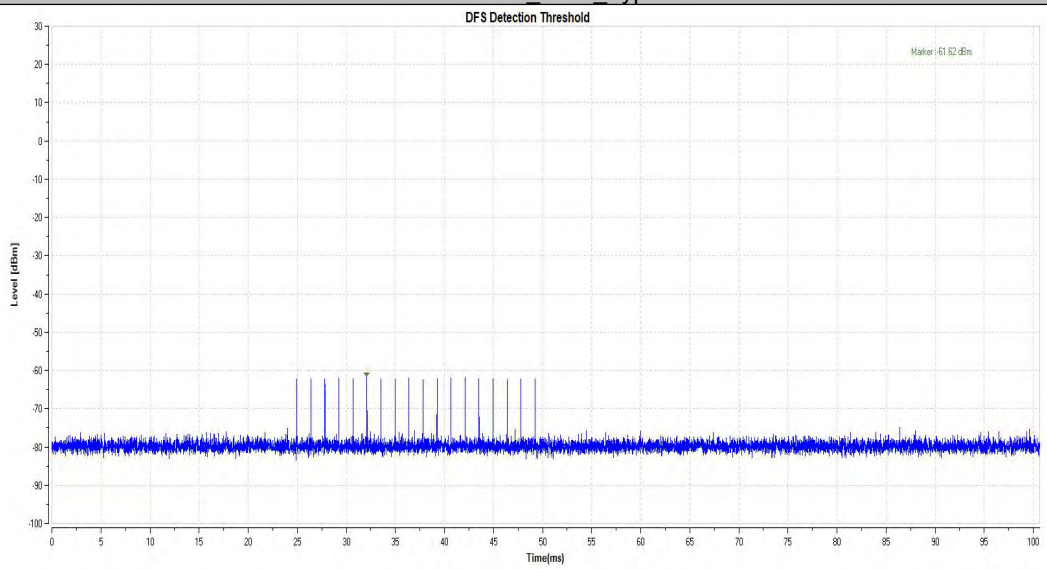

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4.12.4.2 Channel Move Time and Channel Closing Transmission Time

4.12.4.2.1 Test Result

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC20SISO	5320	15.8	60	215.8	10000	PASS
	5500	12.7	60	210.1	10000	PASS
11AC80SISO	5290	0	60	206.7	10000	PASS
	5530	13.6	60	212.3	10000	PASS

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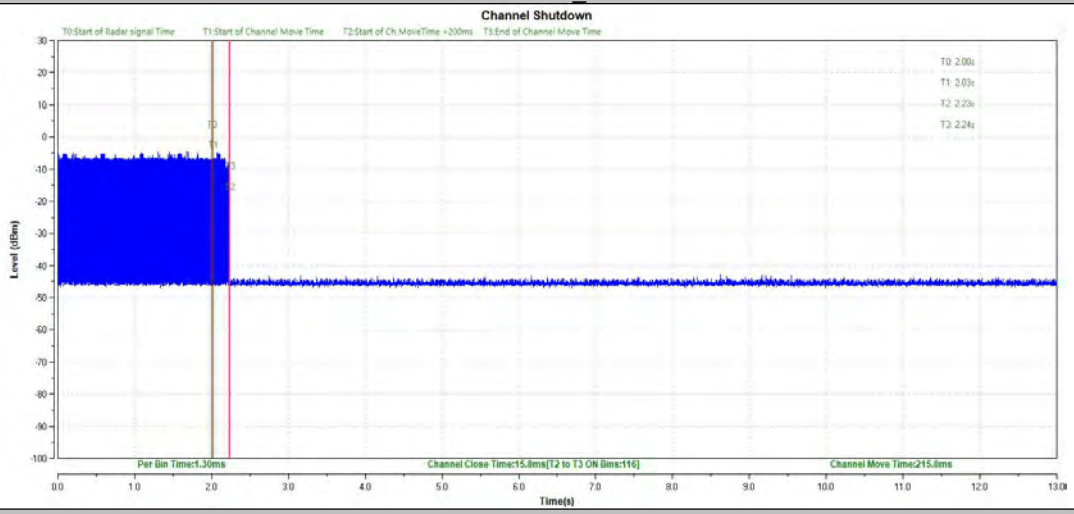
4.12.4.2.2 Test Graphs

11AC20SISO_5320



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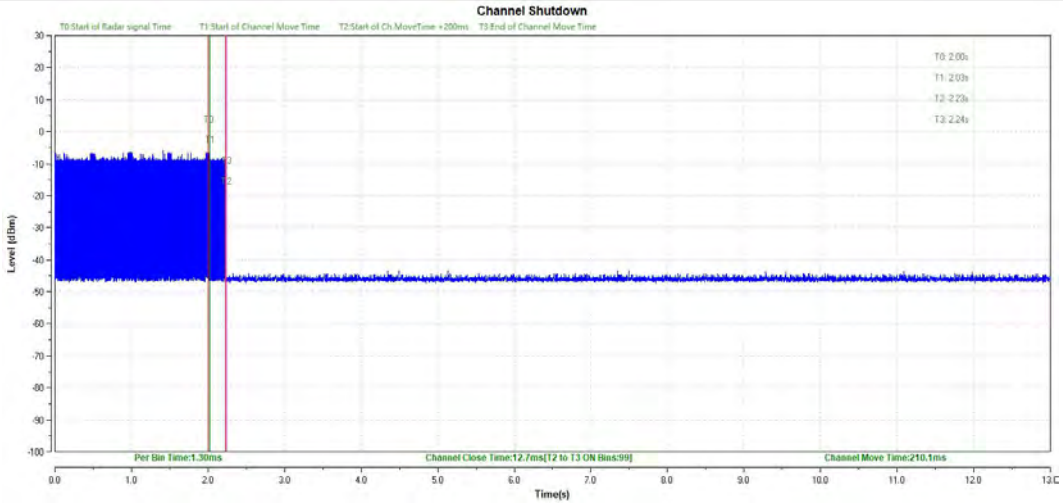

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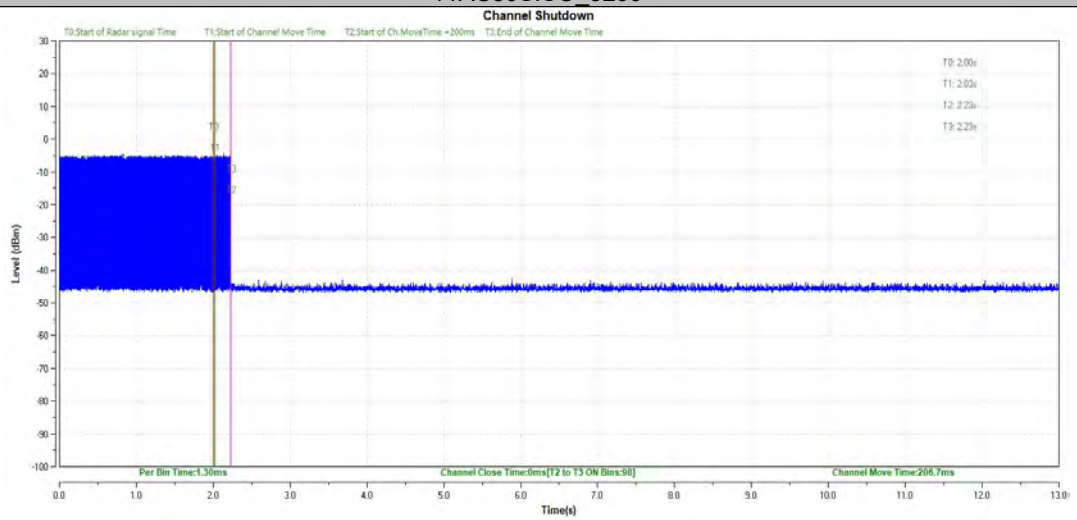
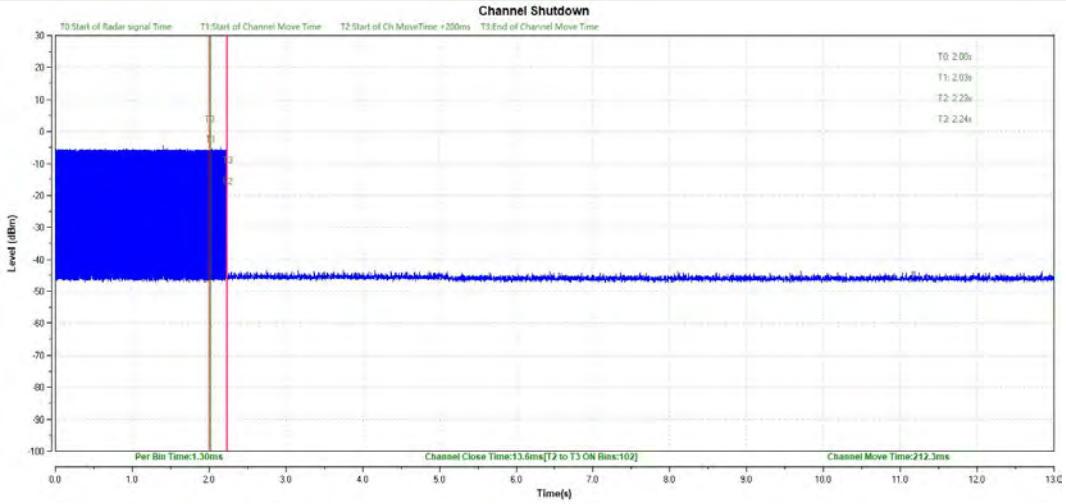
11AC80SISO_5290



11AC80SISO_5530



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4.12.4.3 Non-Occupancy Period

4.12.4.3.1 Test Result

TestMode	Channel	Result	Limit[s]	Verdict
11AC20SISO	5320	see test graph	>=1800	PASS
	5500	see test graph	>=1800	PASS
11AC80SISO	5290	see test graph	>=1800	PASS
	5530	see test graph	>=1800	PASS

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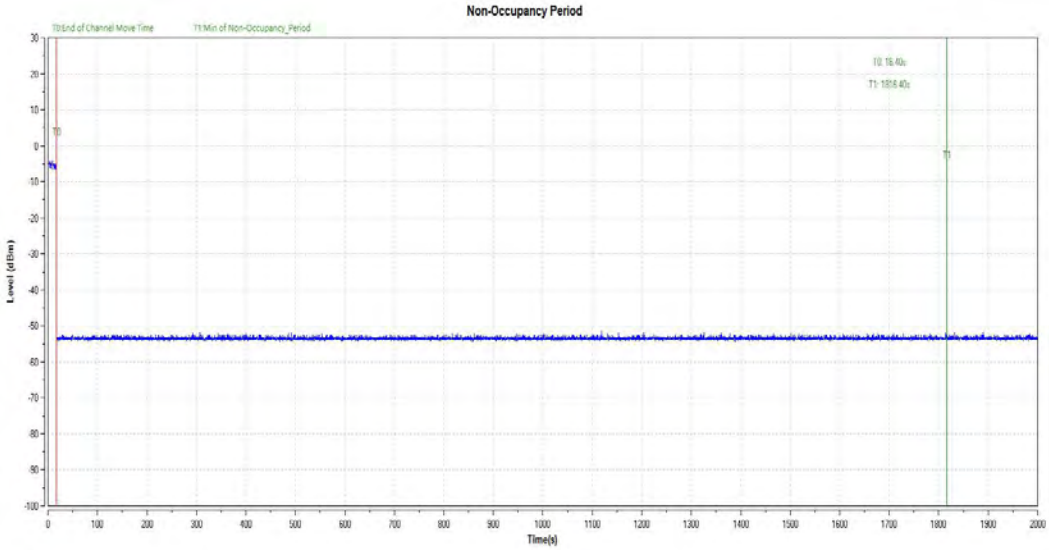
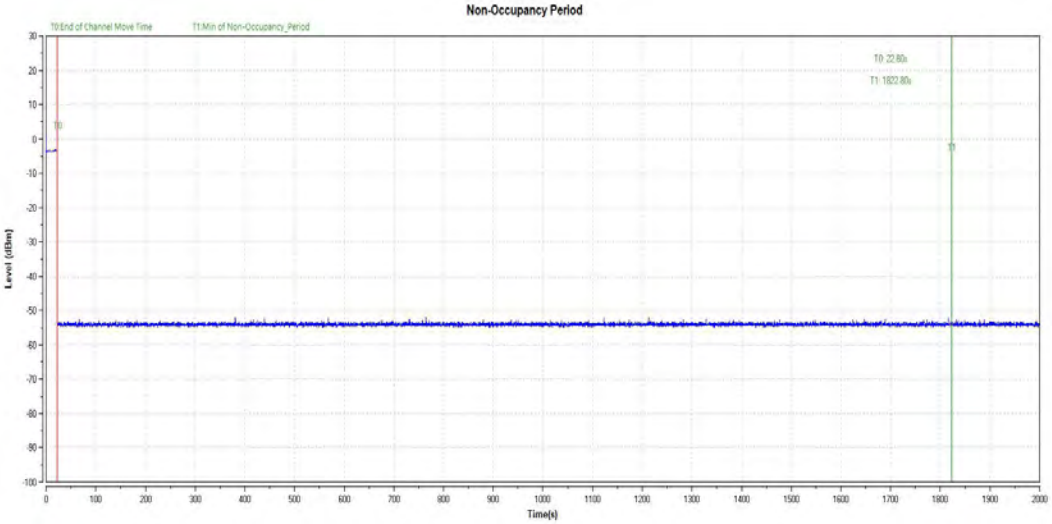
4.12.4.3.2 Test Graphs

11AC20SISO_5320



11AC20SISO_5500



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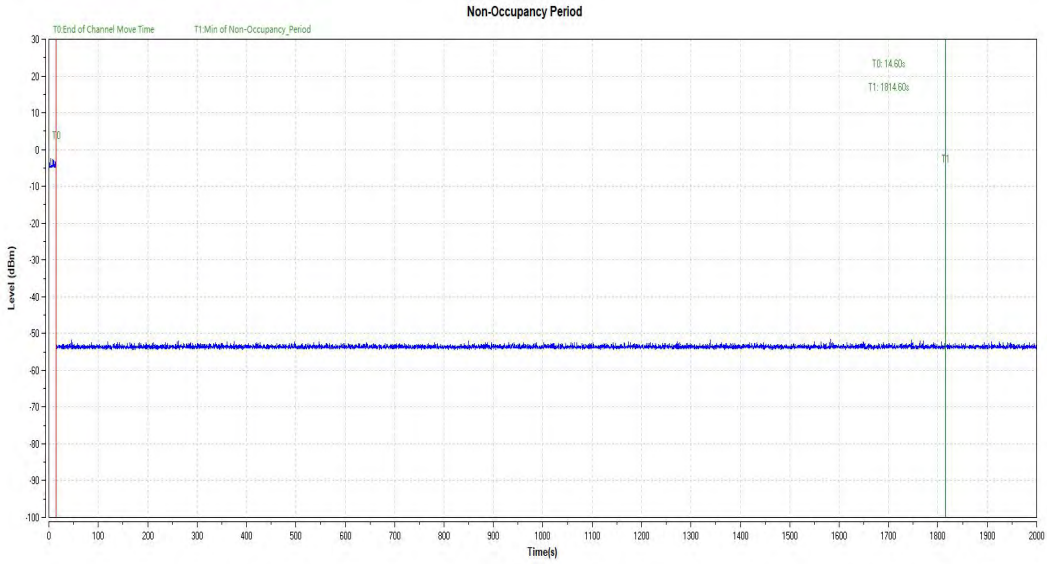
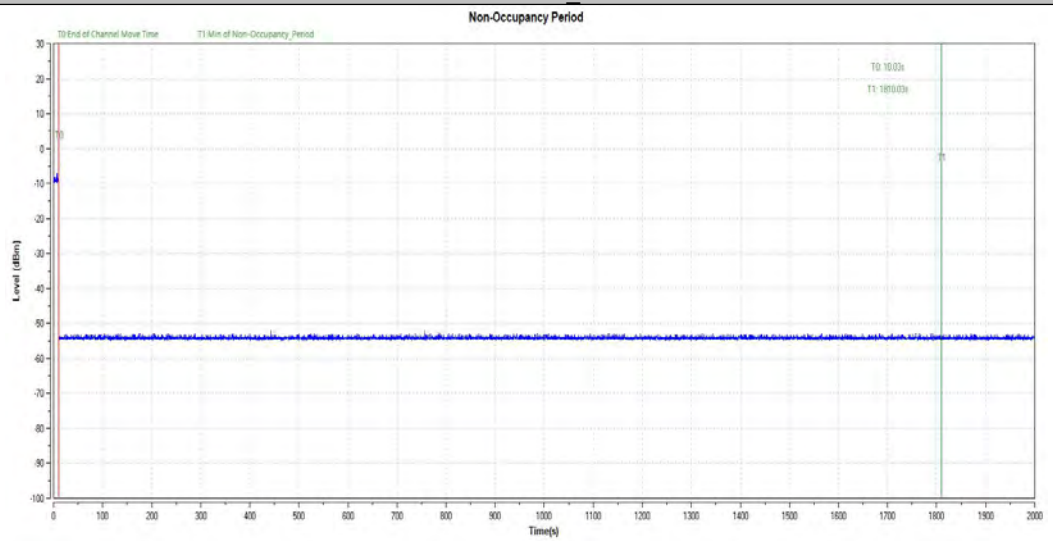
11AC80SISO_5290



11AC80SISO_5530



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz)
		±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%

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6 Equipment List

Conducted Emission					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2020/5/10	2023/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2020/7/14	2021/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/3/2	2021/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020/6/12	2021/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2020/2/11	2021/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2020/2/11	2021/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2020/2/11	2021/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2020/3/2	2021/3/1
RF conducted test					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2020/7/14	2021/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/3/2	2021/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

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RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020/8/5	2023/8/4
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020/6/12	2021/6/11
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2020/7/14	2021/7/14
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2020/6/27	2023/6/26
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2020/3/2	2021/3/1
RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date (yyyy-mm-dd)**	**Cal. Due date (yyyy-mm-dd)**
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2020/3/2	2021/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2020/10/17	2023/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2020/7/14	2021/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2020/7/14	2021/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2020/10/20	2021/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020/3/2	2021/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020/6/12	2021/6/11

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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/B0016.

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Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP.) [dBm]	Verdict
11A	Ant1	5180	11.90	15.9	PASS
	Ant2	5180	10.24	12.24	PASS
	Ant1	5200	11.10	15.1	PASS
	Ant2	5200	10.71	12.71	PASS
	Ant1	5240	10.88	14.88	PASS
	Ant2	5240	10.67	12.67	PASS
	Ant1	5260	10.88	14.88	PASS
	Ant2	5260	10.51	12.51	PASS
	Ant1	5300	10.91	14.91	PASS
	Ant2	5300	10.40	12.4	PASS
	Ant1	5320	11.08	15.08	PASS
	Ant2	5320	10.58	12.58	PASS
	Ant1	5500	11.63	15.63	PASS
	Ant2	5500	10.74	12.74	PASS
	Ant1	5580	11.36	15.36	PASS
	Ant2	5580	10.37	12.37	PASS
	Ant1	5700	11.60	15.6	PASS
	Ant2	5700	10.94	12.94	PASS
	Ant1	5745	11.63	15.63	PASS
	Ant2	5745	10.32	12.32	PASS
	Ant1	5785	11.56	15.56	PASS
	Ant2	5785	9.85	11.85	PASS
	Ant1	5825	11.32	15.32	PASS
	Ant2	5825	10.01	12.01	PASS
11N20SISO	Ant1	5180	12.21	16.21	PASS

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	Ant2	5180	9.98	11.98	PASS
	Ant1	5200	12.11	16.11	PASS
	Ant2	5200	10.04	12.04	PASS
	Ant1	5240	11.76	15.76	PASS
	Ant2	5240	9.75	11.75	PASS
	Ant1	5260	11.86	15.86	PASS
	Ant2	5260	10.47	12.47	PASS
	Ant1	5300	11.71	15.71	PASS
	Ant2	5300	10.53	12.53	PASS
	Ant1	5320	11.90	15.9	PASS
	Ant2	5320	10.68	12.68	PASS
	Ant1	5500	12.54	16.54	PASS
	Ant2	5500	10.76	12.76	PASS
	Ant1	5580	12.07	16.07	PASS
	Ant2	5580	10.54	12.54	PASS
	Ant1	5700	12.45	16.45	PASS
	Ant2	5700	10.05	12.05	PASS
	Ant1	5745	12.67	16.67	PASS
	Ant2	5745	10.31	12.31	PASS
	Ant1	5785	12.66	16.66	PASS
	Ant2	5785	9.63	11.63	PASS
	Ant1	5825	12.47	16.47	PASS
	Ant2	5825	9.78	11.78	PASS
11N40SISO	Ant1	5190	12.26	16.26	PASS
	Ant2	5190	10.50	12.5	PASS
	Ant1	5230	12.38	16.38	PASS
	Ant2	5230	10.23	12.23	PASS
	Ant1	5270	12.73	16.73	PASS
	Ant2	5270	10.25	12.25	PASS
	Ant1	5310	12.14	16.14	PASS
	Ant2	5310	10.19	12.19	PASS

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	Ant1	5510	13.00	17	PASS
	Ant2	5510	10.39	12.39	PASS
	Ant1	5550	12.91	16.91	PASS
	Ant2	5550	10.24	12.24	PASS
	Ant1	5670	12.62	16.62	PASS
	Ant2	5670	10.66	12.66	PASS
	Ant1	5755	12.48	16.48	PASS
	Ant2	5755	10.32	12.32	PASS
	Ant1	5795	12.36	16.36	PASS
	Ant2	5795	9.68	11.68	PASS
11AC20SISO	Ant1	5180	9.90	13.9	PASS
	Ant2	5180	8.90	10.9	PASS
	Ant1	5200	9.99	13.99	PASS
	Ant2	5200	9.00	11	PASS
	Ant1	5240	9.77	13.77	PASS
	Ant2	5240	9.72	11.72	PASS
	Ant1	5260	9.87	13.87	PASS
	Ant2	5260	9.63	11.63	PASS
	Ant1	5300	9.71	13.71	PASS
	Ant2	5300	9.67	11.67	PASS
	Ant1	5320	9.79	13.79	PASS
	Ant2	5320	9.74	11.74	PASS
	Ant1	5500	9.15	13.15	PASS
	Ant2	5500	9.68	11.68	PASS
	Ant1	5580	9.17	13.17	PASS
	Ant2	5580	9.56	11.56	PASS
	Ant1	5700	9.54	13.54	PASS
	Ant2	5700	9.01	11.01	PASS
	Ant1	5745	9.17	13.17	PASS
	Ant2	5745	9.34	11.34	PASS
	Ant1	5785	9.08	13.08	PASS

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	Ant2	5785	9.69	11.69	PASS
	Ant1	5825	9.06	13.06	PASS
	Ant2	5825	8.88	10.88	PASS
11AC40SISO	Ant1	5190	9.27	13.27	PASS
	Ant2	5190	9.34	11.34	PASS
	Ant1	5230	9.07	13.07	PASS
	Ant2	5230	9.15	11.15	PASS
	Ant1	5270	9.22	13.22	PASS
	Ant2	5270	9.09	11.09	PASS
	Ant1	5310	9.08	13.08	PASS
	Ant2	5310	9.02	11.02	PASS
	Ant1	5510	8.98	12.98	PASS
	Ant2	5510	9.37	11.37	PASS
	Ant1	5550	8.89	12.89	PASS
	Ant2	5550	9.13	11.13	PASS
	Ant1	5670	9.13	13.13	PASS
	Ant2	5670	9.64	11.64	PASS
	Ant1	5755	9.07	13.07	PASS
	Ant2	5755	9.06	11.06	PASS
	Ant1	5795	9.04	13.04	PASS
	Ant2	5795	9.62	11.62	PASS
11AC80SISO	Ant1	5210	9.69	13.69	PASS
	Ant2	5210	8.69	10.69	PASS
	Ant1	5290	9.61	13.61	PASS
	Ant2	5290	8.26	10.26	PASS
	Ant1	5530	9.25	13.25	PASS
	Ant2	5530	9.20	11.2	PASS
	Ant1	5610	9.14	13.14	PASS
	Ant2	5610	9.34	11.34	PASS
	Ant1	5775	9.74	13.74	PASS
	Ant2	5775	9.12	11.12	PASS

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	Ant1	5180	9.05	13.05	PASS
	Ant2	5180	8.90	10.9	PASS
	total	5180	12.0	16	PASS
	Ant1	5200	8.86	12.86	PASS
	Ant2	5200	9.11	11.11	PASS
	total	5200	12.0	16	PASS
	Ant1	5240	8.64	12.64	PASS
	Ant2	5240	8.89	10.89	PASS
	total	5240	11.8	15.8	PASS
	Ant1	5260	8.54	12.54	PASS
	Ant2	5260	8.58	10.58	PASS
	total	5260	11.6	15.6	PASS
	Ant1	5300	8.42	12.42	PASS
	Ant2	5300	8.61	10.61	PASS
	total	5300	11.5	15.5	PASS
11A-CDD	Ant1	5320	8.58	12.58	PASS
	Ant2	5320	8.77	10.77	PASS
	total	5320	11.7	15.7	PASS
	Ant1	5500	9.08	13.08	PASS
	Ant2	5500	7.52	9.52	PASS
	total	5500	11.4	15.4	PASS
	Ant1	5580	8.86	12.86	PASS
	Ant2	5580	7.39	9.39	PASS
	total	5580	11.2	15.2	PASS
	Ant1	5700	9.04	13.04	PASS
	Ant2	5700	8.17	10.17	PASS
	total	5700	11.6	15.6	PASS
	Ant1	5745	9.13	13.13	PASS
	Ant2	5745	8.39	10.39	PASS
	total	5745	11.8	15.8	PASS
	Ant1	5785	9.06	13.06	PASS

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	Ant2	5785	7.90	9.9	PASS
	total	5785	11.5	15.5	PASS
	Ant1	5825	8.83	12.83	PASS
	Ant2	5825	8.05	10.05	PASS
	total	5825	11.5	15.5	PASS
11N20MIMO	Ant1	5180	9.00	13	PASS
	Ant2	5180	9.40	11.4	PASS
	total	5180	12.2	16.2	PASS
	Ant1	5200	9.83	13.83	PASS
	Ant2	5200	9.98	11.98	PASS
	total	5200	12.9	16.9	PASS
	Ant1	5240	9.56	13.56	PASS
	Ant2	5240	9.71	11.71	PASS
	total	5240	12.6	16.6	PASS
	Ant1	5260	9.81	13.81	PASS
	Ant2	5260	9.56	11.56	PASS
	total	5260	12.7	16.7	PASS
	Ant1	5300	9.55	13.55	PASS
	Ant2	5300	9.56	11.56	PASS
	total	5300	12.6	16.6	PASS
	Ant1	5320	9.86	13.86	PASS
	Ant2	5320	9.64	11.64	PASS
	total	5320	12.8	16.8	PASS
	Ant1	5500	9.16	13.16	PASS
	Ant2	5500	9.63	11.63	PASS
	total	5500	12.4	16.4	PASS
	Ant1	5580	9.04	13.04	PASS
	Ant2	5580	9.43	11.43	PASS
	total	5580	12.2	16.2	PASS
	Ant1	5700	9.39	13.39	PASS
	Ant2	5700	9.04	11.04	PASS

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	total	5700	12.2	16.2	PASS
	Ant1	5745	9.11	13.11	PASS
	Ant2	5745	9.27	11.27	PASS
	total	5745	12.2	16.2	PASS
	Ant1	5785	9.12	13.12	PASS
	Ant2	5785	8.73	10.73	PASS
	total	5785	11.9	15.9	PASS
	Ant1	5825	10.06	14.06	PASS
	Ant2	5825	8.85	10.85	PASS
	total	5825	12.5	16.5	PASS
11N40MIMO	Ant1	5190	10.56	14.56	PASS
	Ant2	5190	7.62	9.62	PASS
	total	5190	12.3	16.3	PASS
	Ant1	5230	10.33	14.33	PASS
	Ant2	5230	7.38	9.38	PASS
	total	5230	12.1	16.1	PASS
	Ant1	5270	10.30	14.3	PASS
	Ant2	5270	7.44	9.44	PASS
	total	5270	12.1	16.1	PASS
	Ant1	5310	10.34	14.34	PASS
	Ant2	5310	7.56	9.56	PASS
	total	5310	12.2	16.2	PASS
	Ant1	5510	10.26	14.26	PASS
	Ant2	5510	6.24	8.24	PASS
	total	5510	11.7	15.7	PASS
	Ant1	5550	10.09	14.09	PASS
	Ant2	5550	6.19	8.19	PASS
	total	5550	11.6	15.6	PASS
	Ant1	5670	10.40	14.4	PASS
	Ant2	5670	6.90	8.9	PASS
	total	5670	12.0	16	PASS

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	Ant1	5755	10.28	14.28	PASS
	Ant2	5755	7.94	9.94	PASS
	total	5755	12.3	16.3	PASS
	Ant1	5795	10.21	14.21	PASS
	Ant2	5795	7.20	9.2	PASS
	total	5795	12.0	16	PASS
11AC20MIMO	Ant1	5180	6.73	10.73	PASS
	Ant2	5180	6.54	8.54	PASS
	total	5180	9.6	13.6	PASS
	Ant1	5200	6.50	10.5	PASS
	Ant2	5200	5.54	7.54	PASS
	total	5200	9.1	13.1	PASS
	Ant1	5240	6.33	10.33	PASS
	Ant2	5240	6.39	8.39	PASS
	total	5240	9.4	13.4	PASS
	Ant1	5260	6.22	10.22	PASS
	Ant2	5260	6.21	8.21	PASS
	total	5260	9.2	13.2	PASS
	Ant1	5300	6.12	10.12	PASS
	Ant2	5300	6.27	8.27	PASS
	total	5300	9.2	13.2	PASS
	Ant1	5320	6.24	10.24	PASS
	Ant2	5320	6.23	8.23	PASS
	total	5320	9.2	13.2	PASS
	Ant1	5500	6.60	10.6	PASS
	Ant2	5500	6.24	8.24	PASS
	total	5500	9.4	13.4	PASS
	Ant1	5580	6.37	10.37	PASS
	Ant2	5580	6.22	8.22	PASS
	total	5580	9.3	13.3	PASS
	Ant1	5700	6.85	10.85	PASS

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	Ant2	5700	6.88	8.88	PASS
	total	5700	9.9	13.9	PASS
	Ant1	5745	6.11	10.11	PASS
	Ant2	5745	6.21	8.21	PASS
	total	5745	9.2	13.2	PASS
	Ant1	5785	6.70	10.7	PASS
	Ant2	5785	5.59	7.59	PASS
	total	5785	9.2	13.2	PASS
	Ant1	5825	6.90	10.9	PASS
	Ant2	5825	5.77	7.77	PASS
	total	5825	9.4	13.4	PASS
11AC40MIMO	Ant1	5190	6.95	10.95	PASS
	Ant2	5190	5.59	7.59	PASS
	total	5190	9.3	13.3	PASS
	Ant1	5230	6.94	10.94	PASS
	Ant2	5230	5.43	7.43	PASS
	total	5230	9.3	13.3	PASS
	Ant1	5270	6.52	10.52	PASS
	Ant2	5270	5.47	7.47	PASS
	total	5270	9.0	13	PASS
	Ant1	5310	6.49	10.49	PASS
	Ant2	5310	5.42	7.42	PASS
	total	5310	9.0	13	PASS
	Ant1	5510	7.82	11.82	PASS
	Ant2	5510	4.14	6.14	PASS
	total	5510	9.4	13.4	PASS
	Ant1	5550	7.86	11.86	PASS
	Ant2	5550	3.66	5.66	PASS
	total	5550	9.3	13.3	PASS
	Ant1	5670	7.91	11.91	PASS
	Ant2	5670	4.47	6.47	PASS

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	total	5670	9.5	13.5	PASS
	Ant1	5755	7.34	11.34	PASS
	Ant2	5755	5.67	7.67	PASS
	total	5755	9.6	13.6	PASS
	Ant1	5795	7.46	11.46	PASS
	Ant2	5795	4.96	6.96	PASS
	total	5795	9.4	13.4	PASS
11AC80MIMO	Ant1	5210	7.37	11.37	PASS
	Ant2	5210	6.46	8.46	PASS
	total	5210	9.9	13.9	PASS
	Ant1	5290	7.36	11.36	PASS
	Ant2	5290	6.09	8.09	PASS
	total	5290	9.8	13.8	PASS
	Ant1	5530	7.91	11.91	PASS
	Ant2	5530	4.77	6.77	PASS
	total	5530	9.6	13.6	PASS
	Ant1	5610	7.96	11.96	PASS
	Ant2	5610	5.04	7.04	PASS
	total	5610	9.8	13.8	PASS
	Ant1	5775	8.54	12.54	PASS
	Ant2	5775	4.97	6.97	PASS
	total	5775	10.1	14.1	PASS

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Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty cycle Correction Factor[dB]	Verdict
11A	Ant1	5180	1.38	1.43	96.50	0.15	PASS
	Ant2	5180	1.39	1.43	97.20	0.12	PASS
	Ant1	5200	1.39	1.43	97.20	0.12	PASS
	Ant2	5200	1.39	1.43	97.20	0.12	PASS
	Ant1	5240	1.39	1.43	97.20	0.12	PASS
	Ant2	5240	1.39	1.43	97.20	0.12	PASS
	Ant1	5260	1.39	1.43	97.20	0.12	PASS
	Ant2	5260	1.39	1.43	97.20	0.12	PASS
	Ant1	5300	1.39	1.43	97.20	0.12	PASS
	Ant2	5300	1.39	1.43	97.20	0.12	PASS
	Ant1	5320	1.39	1.43	97.20	0.12	PASS
	Ant2	5320	1.39	1.43	97.20	0.12	PASS
	Ant1	5500	1.39	1.43	97.20	0.12	PASS
	Ant2	5500	1.39	1.43	97.20	0.12	PASS
	Ant1	5580	1.39	1.43	97.20	0.12	PASS
	Ant2	5580	1.39	1.43	97.20	0.12	PASS
	Ant1	5700	1.38	1.43	96.50	0.15	PASS
	Ant2	5700	1.39	1.43	97.20	0.12	PASS
	Ant1	5745	1.39	1.43	97.20	0.12	PASS
	Ant2	5745	1.38	1.43	96.50	0.15	PASS
	Ant1	5785	1.39	1.43	97.20	0.12	PASS
	Ant2	5785	1.39	1.43	97.20	0.12	PASS
	Ant1	5825	1.39	1.43	97.20	0.12	PASS
	Ant2	5825	1.39	1.43	97.20	0.12	PASS
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.13	PASS

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	Ant2	5180	1.30	1.34	97.01	0.13	PASS
	Ant1	5200	1.30	1.34	97.01	0.13	PASS
	Ant2	5200	1.30	1.34	97.01	0.13	PASS
	Ant1	5240	1.30	1.34	97.01	0.13	PASS
	Ant2	5240	1.30	1.34	97.01	0.13	PASS
	Ant1	5260	1.30	1.34	97.01	0.13	PASS
	Ant2	5260	1.30	1.34	97.01	0.13	PASS
	Ant1	5300	1.30	1.34	97.01	0.13	PASS
	Ant2	5300	1.30	1.34	97.01	0.13	PASS
	Ant1	5320	1.30	1.34	97.01	0.13	PASS
	Ant2	5320	1.30	1.34	97.01	0.13	PASS
	Ant1	5500	1.30	1.34	97.01	0.13	PASS
	Ant2	5500	1.30	1.34	97.01	0.13	PASS
	Ant1	5580	1.30	1.34	97.01	0.13	PASS
	Ant2	5580	1.30	1.34	97.01	0.13	PASS
	Ant1	5700	1.30	1.34	97.01	0.13	PASS
	Ant2	5700	1.30	1.34	97.01	0.13	PASS
	Ant1	5745	1.30	1.34	97.01	0.13	PASS
	Ant2	5745	1.30	1.34	97.01	0.13	PASS
	Ant1	5785	1.30	1.34	97.01	0.13	PASS
	Ant2	5785	1.30	1.34	97.01	0.13	PASS
	Ant1	5825	1.30	1.34	97.01	0.13	PASS
	Ant2	5825	1.30	1.34	97.01	0.13	PASS
11N40SISO	Ant1	5190	0.64	0.69	92.75	0.33	PASS
	Ant2	5190	0.64	0.69	92.75	0.33	PASS
	Ant1	5230	0.64	0.69	92.75	0.33	PASS
	Ant2	5230	0.64	0.69	92.75	0.33	PASS
	Ant1	5270	0.64	0.69	92.75	0.33	PASS
	Ant2	5270	0.64	0.69	92.75	0.33	PASS
	Ant1	5310	0.64	0.69	92.75	0.33	PASS
	Ant2	5310	0.64	0.68	94.12	0.26	PASS

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	Ant1	5510	0.64	0.69	92.75	0.33	PASS
	Ant2	5510	0.64	0.69	92.75	0.33	PASS
	Ant1	5550	0.64	0.69	92.75	0.33	PASS
	Ant2	5550	0.64	0.69	92.75	0.33	PASS
	Ant1	5670	0.64	0.69	92.75	0.33	PASS
	Ant2	5670	0.64	0.69	92.75	0.33	PASS
	Ant1	5755	0.64	0.69	92.75	0.33	PASS
	Ant2	5755	0.64	0.69	92.75	0.33	PASS
	Ant1	5795	0.64	0.69	92.75	0.33	PASS
	Ant2	5795	0.64	0.69	92.75	0.33	PASS
11AC20SISO	Ant1	5180	1.30	1.34	97.01	0.13	PASS
	Ant2	5180	1.30	1.34	97.01	0.13	PASS
	Ant1	5200	1.30	1.34	97.01	0.13	PASS
	Ant2	5200	1.30	1.34	97.01	0.13	PASS
	Ant1	5240	1.30	1.34	97.01	0.13	PASS
	Ant2	5240	1.30	1.34	97.01	0.13	PASS
	Ant1	5260	1.30	1.34	97.01	0.13	PASS
	Ant2	5260	1.30	1.34	97.01	0.13	PASS
	Ant1	5300	1.30	1.34	97.01	0.13	PASS
	Ant2	5300	1.30	1.34	97.01	0.13	PASS
	Ant1	5320	1.30	1.34	97.01	0.13	PASS
	Ant2	5320	1.30	1.34	97.01	0.13	PASS
	Ant1	5500	1.30	1.34	97.01	0.13	PASS
	Ant2	5500	1.30	1.34	97.01	0.13	PASS
	Ant1	5580	1.30	1.34	97.01	0.13	PASS
	Ant2	5580	1.30	1.34	97.01	0.13	PASS
	Ant1	5700	1.30	1.34	97.01	0.13	PASS
	Ant2	5700	1.30	1.34	97.01	0.13	PASS
	Ant1	5745	1.30	1.34	97.01	0.13	PASS
	Ant2	5745	1.30	1.34	97.01	0.13	PASS
	Ant1	5785	1.30	1.34	97.01	0.13	PASS

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	Ant2	5785	1.30	1.34	97.01	0.13	PASS
	Ant1	5825	1.30	1.34	97.01	0.13	PASS
	Ant2	5825	1.30	1.34	97.01	0.13	PASS
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	PASS
	Ant2	5190	0.65	0.69	94.20	0.26	PASS
	Ant1	5230	0.65	0.69	94.20	0.26	PASS
	Ant2	5230	0.65	0.69	94.20	0.26	PASS
	Ant1	5270	0.65	0.69	94.20	0.26	PASS
	Ant2	5270	0.65	0.69	94.20	0.26	PASS
	Ant1	5310	0.65	0.69	94.20	0.26	PASS
	Ant2	5310	0.65	0.69	94.20	0.26	PASS
	Ant1	5510	0.65	0.69	94.20	0.26	PASS
	Ant2	5510	0.65	0.69	94.20	0.26	PASS
	Ant1	5550	0.65	0.69	94.20	0.26	PASS
	Ant2	5550	0.65	0.69	94.20	0.26	PASS
	Ant1	5670	0.65	0.69	94.20	0.26	PASS
	Ant2	5670	0.65	0.69	94.20	0.26	PASS
	Ant1	5755	0.65	0.69	94.20	0.26	PASS
	Ant2	5755	0.65	0.69	94.20	0.26	PASS
	Ant1	5795	0.65	0.69	94.20	0.26	PASS
	Ant2	5795	0.65	0.69	94.20	0.26	PASS
11AC80SISO	Ant1	5210	0.32	0.36	88.89	0.51	PASS
	Ant2	5210	0.32	0.36	88.89	0.51	PASS
	Ant1	5290	0.32	0.36	88.89	0.51	PASS
	Ant2	5290	0.32	0.36	88.89	0.51	PASS
	Ant1	5530	0.32	0.36	88.89	0.51	PASS
	Ant2	5530	0.32	0.36	88.89	0.51	PASS
	Ant1	5610	0.32	0.36	88.89	0.51	PASS
	Ant2	5610	0.32	0.36	88.89	0.51	PASS
	Ant1	5775	0.32	0.36	88.89	0.51	PASS
	Ant2	5775	0.32	0.36	88.89	0.51	PASS

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11A-CDD	Ant1	5180	1.39	1.43	97.20	0.26	PASS
	Ant2	5180	1.39	1.43	97.20	0.26	PASS
	Ant1	5200	1.39	1.43	97.20	0.26	PASS
	Ant2	5200	1.39	1.43	97.20	0.26	PASS
	Ant1	5240	1.38	1.43	96.50	0.15	PASS
	Ant2	5240	1.39	1.43	97.20	0.26	PASS
	Ant1	5260	1.39	1.43	97.20	0.26	PASS
	Ant2	5260	1.39	1.43	97.20	0.26	PASS
	Ant1	5300	1.39	1.43	97.20	0.26	PASS
	Ant2	5300	1.39	1.43	97.20	0.26	PASS
	Ant1	5320	1.39	1.43	97.20	0.26	PASS
	Ant2	5320	1.39	1.43	97.20	0.26	PASS
	Ant1	5500	1.38	1.43	96.50	0.15	PASS
	Ant2	5500	1.39	1.43	97.20	0.26	PASS
	Ant1	5580	1.39	1.43	97.20	0.26	PASS
	Ant2	5580	1.39	1.43	97.20	0.26	PASS
	Ant1	5700	1.39	1.43	97.20	0.26	PASS
	Ant2	5700	1.39	1.43	97.20	0.26	PASS
	Ant1	5745	1.39	1.43	97.20	0.26	PASS
	Ant2	5745	1.39	1.43	97.20	0.26	PASS
	Ant1	5785	1.39	1.43	97.20	0.26	PASS
	Ant2	5785	1.39	1.43	97.20	0.26	PASS
	Ant1	5825	1.39	1.43	97.20	0.26	PASS
	Ant2	5825	1.39	1.43	97.20	0.26	PASS
11N20MIMO	Ant1	5180	1.30	1.34	97.01	0.13	PASS
	Ant2	5180	1.30	1.34	97.01	0.13	PASS
	Ant1	5200	1.30	1.34	97.01	0.13	PASS
	Ant2	5200	1.30	1.34	97.01	0.13	PASS
	Ant1	5240	1.30	1.34	97.01	0.13	PASS
	Ant2	5240	1.30	1.34	97.01	0.13	PASS
	Ant1	5260	1.30	1.34	97.01	0.13	PASS

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	Ant2	5260	1.30	1.34	97.01	0.13	PASS
	Ant1	5300	1.30	1.34	97.01	0.13	PASS
	Ant2	5300	1.30	1.34	97.01	0.13	PASS
	Ant1	5320	1.30	1.34	97.01	0.13	PASS
	Ant2	5320	1.30	1.34	97.01	0.13	PASS
	Ant1	5500	1.30	1.34	97.01	0.13	PASS
	Ant2	5500	1.30	1.34	97.01	0.13	PASS
	Ant1	5580	1.30	1.34	97.01	0.13	PASS
	Ant2	5580	1.30	1.34	97.01	0.13	PASS
	Ant1	5700	1.30	1.34	97.01	0.13	PASS
	Ant2	5700	1.30	1.34	97.01	0.13	PASS
	Ant1	5745	1.30	1.34	97.01	0.13	PASS
	Ant2	5745	1.30	1.34	97.01	0.13	PASS
	Ant1	5785	1.30	1.34	97.01	0.13	PASS
	Ant2	5785	1.30	1.34	97.01	0.13	PASS
	Ant1	5825	1.30	1.34	97.01	0.13	PASS
	Ant2	5825	1.30	1.34	97.01	0.13	PASS
11N40MIMO	Ant1	5190	0.64	0.69	92.75	0.33	PASS
	Ant2	5190	0.64	0.69	92.75	0.33	PASS
	Ant1	5230	0.64	0.69	92.75	0.33	PASS
	Ant2	5230	0.64	0.69	92.75	0.33	PASS
	Ant1	5270	0.64	0.69	92.75	0.33	PASS
	Ant2	5270	0.64	0.69	92.75	0.33	PASS
	Ant1	5310	0.64	0.69	92.75	0.33	PASS
	Ant2	5310	0.64	0.69	92.75	0.33	PASS
	Ant1	5510	0.64	0.69	92.75	0.33	PASS
	Ant2	5510	0.64	0.69	92.75	0.33	PASS
	Ant1	5550	0.64	0.69	92.75	0.33	PASS
	Ant2	5550	0.64	0.69	92.75	0.33	PASS
	Ant1	5670	0.64	0.69	92.75	0.33	PASS
	Ant2	5670	0.64	0.69	92.75	0.33	PASS

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	Ant1	5755	0.64	0.69	92.75	0.33	PASS
	Ant2	5755	0.64	0.69	92.75	0.33	PASS
	Ant1	5795	0.64	0.69	92.75	0.33	PASS
	Ant2	5795	0.64	0.69	92.75	0.33	PASS
11AC20MIMO	Ant1	5180	1.31	1.35	97.04	0.13	PASS
	Ant2	5180	1.31	1.35	97.04	0.13	PASS
	Ant1	5200	1.31	1.35	97.04	0.13	PASS
	Ant2	5200	1.31	1.35	97.04	0.13	PASS
	Ant1	5240	1.31	1.35	97.04	0.13	PASS
	Ant2	5240	1.31	1.35	97.04	0.13	PASS
	Ant1	5260	1.31	1.35	97.04	0.13	PASS
	Ant2	5260	1.31	1.35	97.04	0.13	PASS
	Ant1	5300	1.31	1.35	97.04	0.13	PASS
	Ant2	5300	1.31	1.35	97.04	0.13	PASS
	Ant1	5320	1.31	1.35	97.04	0.13	PASS
	Ant2	5320	1.31	1.35	97.04	0.13	PASS
	Ant1	5500	1.31	1.35	97.04	0.13	PASS
	Ant2	5500	1.31	1.35	97.04	0.13	PASS
	Ant1	5580	1.31	1.35	97.04	0.13	PASS
	Ant2	5580	1.31	1.35	97.04	0.13	PASS
	Ant1	5700	1.31	1.35	97.04	0.13	PASS
	Ant2	5700	1.31	1.35	97.04	0.13	PASS
	Ant1	5745	1.31	1.35	97.04	0.13	PASS
	Ant2	5745	1.31	1.35	97.04	0.13	PASS
	Ant1	5785	1.31	1.35	97.04	0.13	PASS
	Ant2	5785	1.31	1.35	97.04	0.13	PASS
	Ant1	5825	1.31	1.35	97.04	0.13	PASS
	Ant2	5825	1.31	1.35	97.04	0.13	PASS
11AC40MIMO	Ant1	5190	0.65	0.69	94.20	0.26	PASS
	Ant2	5190	0.65	0.69	94.20	0.26	PASS
	Ant1	5230	0.65	0.69	94.20	0.26	PASS

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	Ant2	5230	0.65	0.69	94.20	0.26	PASS
	Ant1	5270	0.65	0.69	94.20	0.26	PASS
	Ant2	5270	0.65	0.69	94.20	0.26	PASS
	Ant1	5310	0.65	0.69	94.20	0.26	PASS
	Ant2	5310	0.65	0.69	94.20	0.26	PASS
	Ant1	5510	0.65	0.69	94.20	0.26	PASS
	Ant2	5510	0.65	0.69	94.20	0.26	PASS
	Ant1	5550	0.65	0.69	94.20	0.26	PASS
	Ant2	5550	0.65	0.69	94.20	0.26	PASS
	Ant1	5670	0.65	0.69	94.20	0.26	PASS
	Ant2	5670	0.65	0.69	94.20	0.26	PASS
	Ant1	5755	0.65	0.69	94.20	0.26	PASS
	Ant2	5755	0.65	0.69	94.20	0.26	PASS
	Ant1	5795	0.65	0.69	94.20	0.26	PASS
	Ant2	5795	0.65	0.69	94.20	0.26	PASS
11AC80MIMO	Ant1	5210	0.32	0.36	88.89	0.51	PASS
	Ant2	5210	0.32	0.36	88.89	0.51	PASS
	Ant1	5290	0.32	0.36	88.89	0.51	PASS
	Ant2	5290	0.32	0.36	88.89	0.51	PASS
	Ant1	5530	0.32	0.36	88.89	0.51	PASS
	Ant2	5530	0.32	0.36	88.89	0.51	PASS
	Ant1	5610	0.32	0.36	88.89	0.51	PASS
	Ant2	5610	0.32	0.36	88.89	0.51	PASS
	Ant1	5775	0.32	0.36	88.89	0.51	PASS
	Ant2	5775	0.32	0.36	88.89	0.51	PASS

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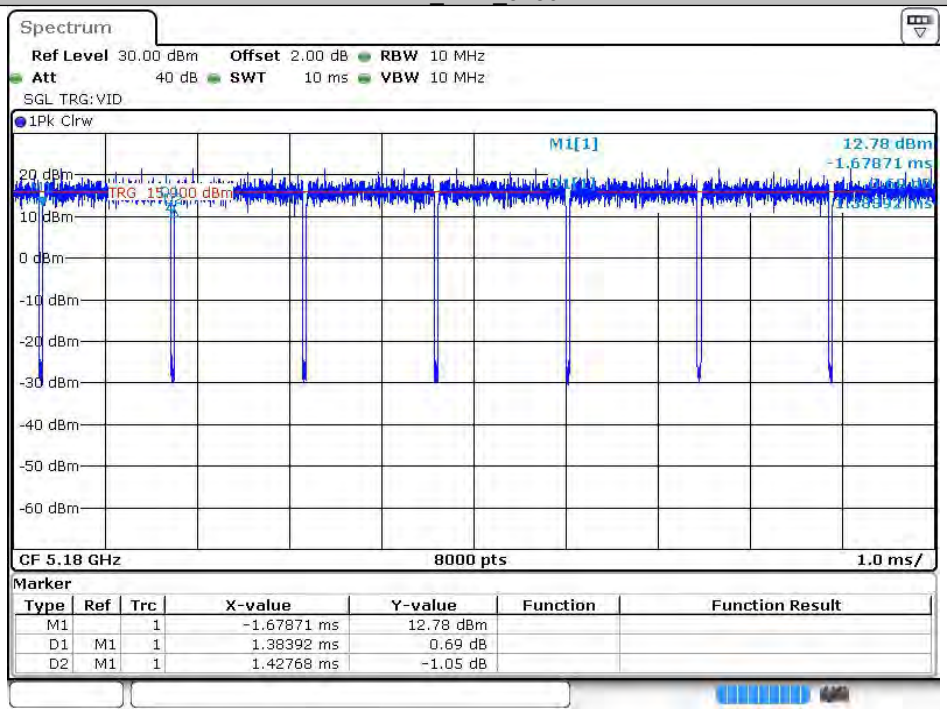

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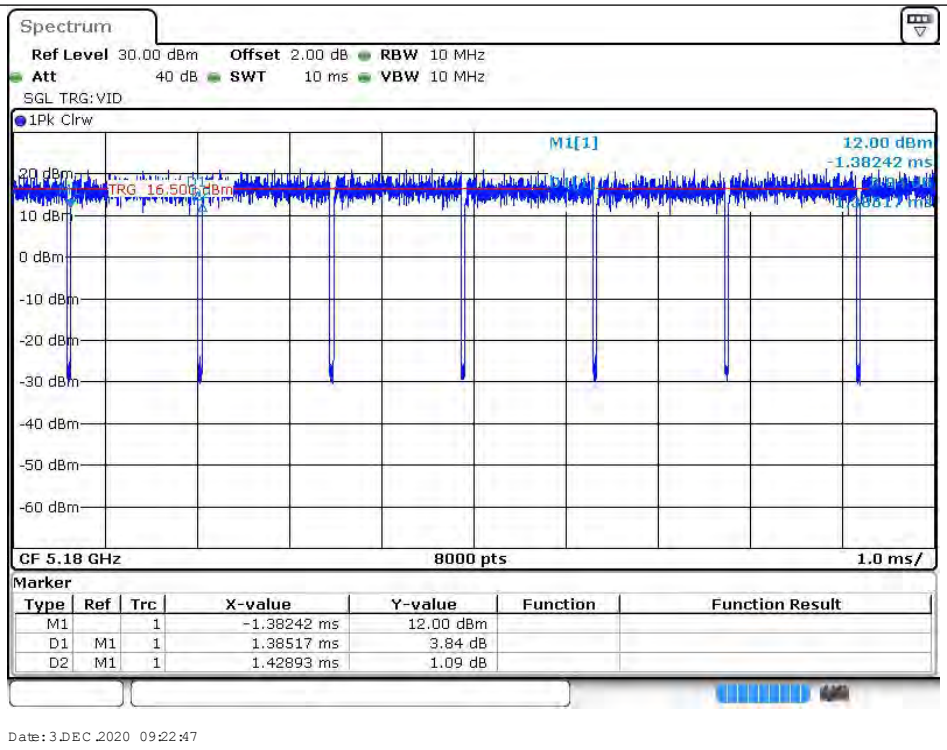

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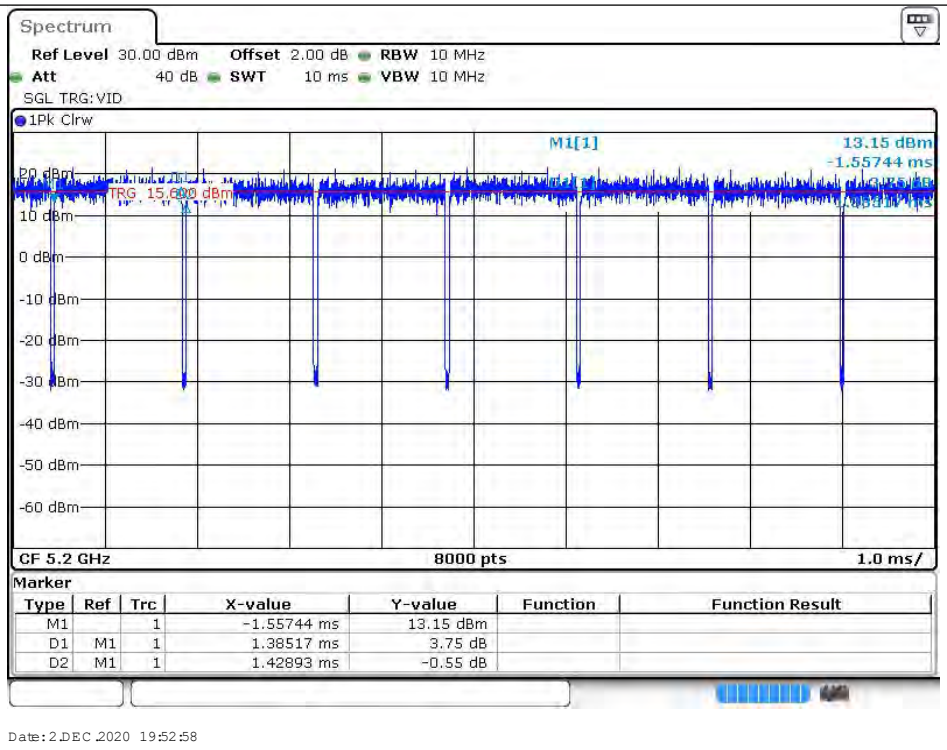

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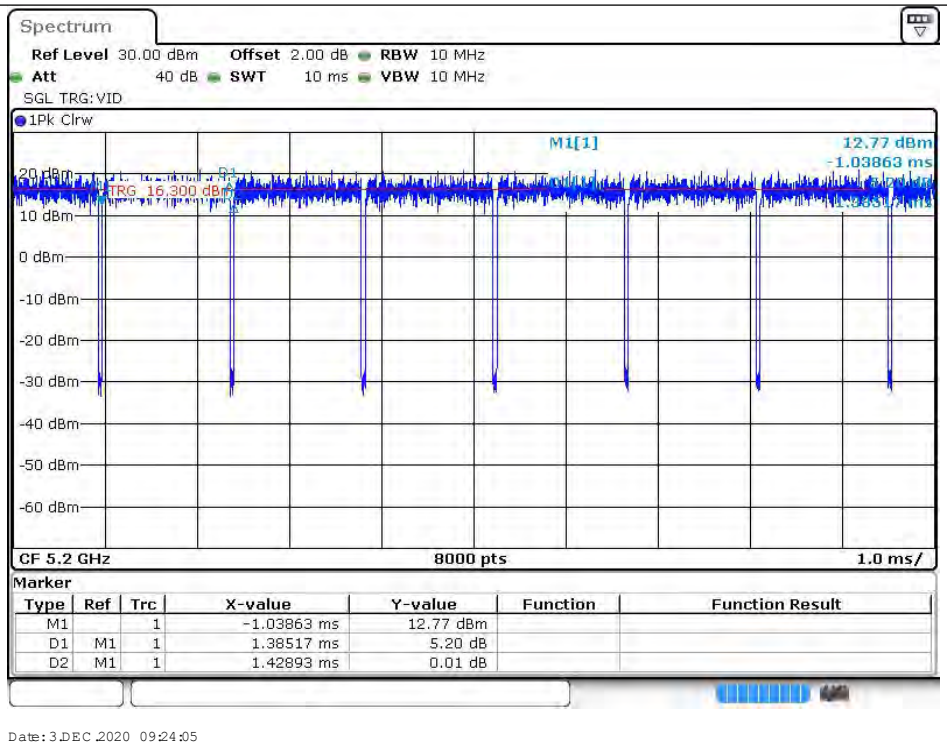

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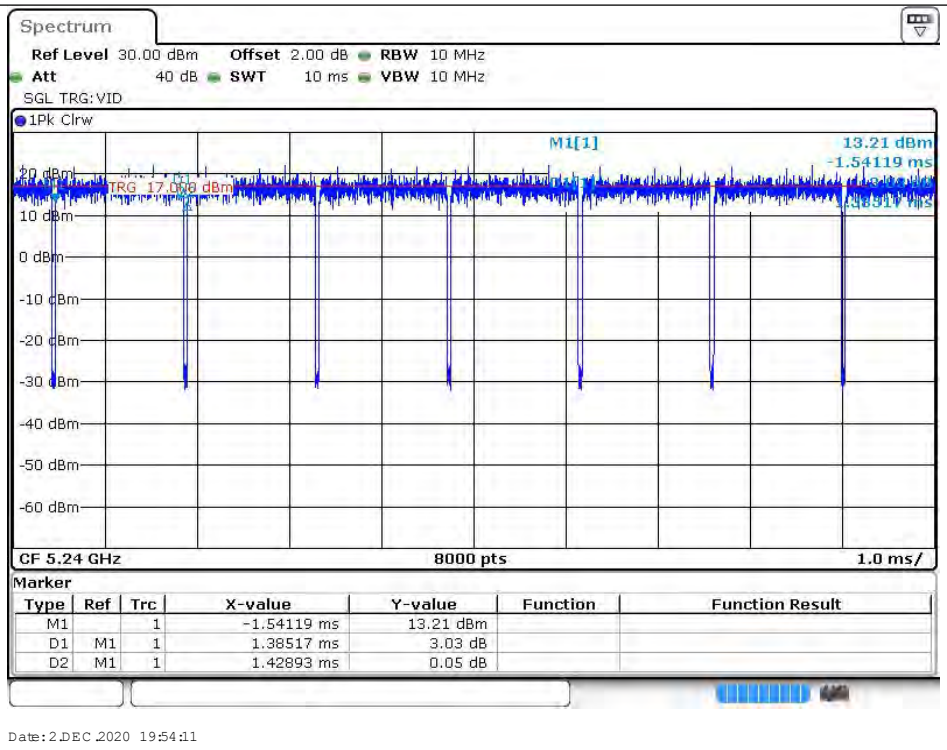

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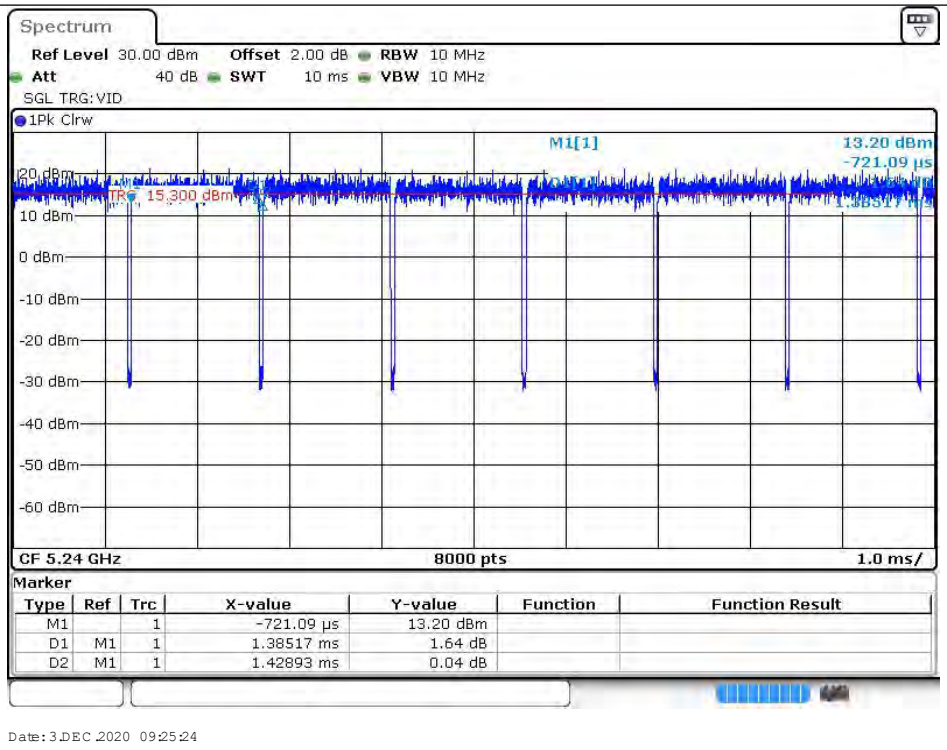

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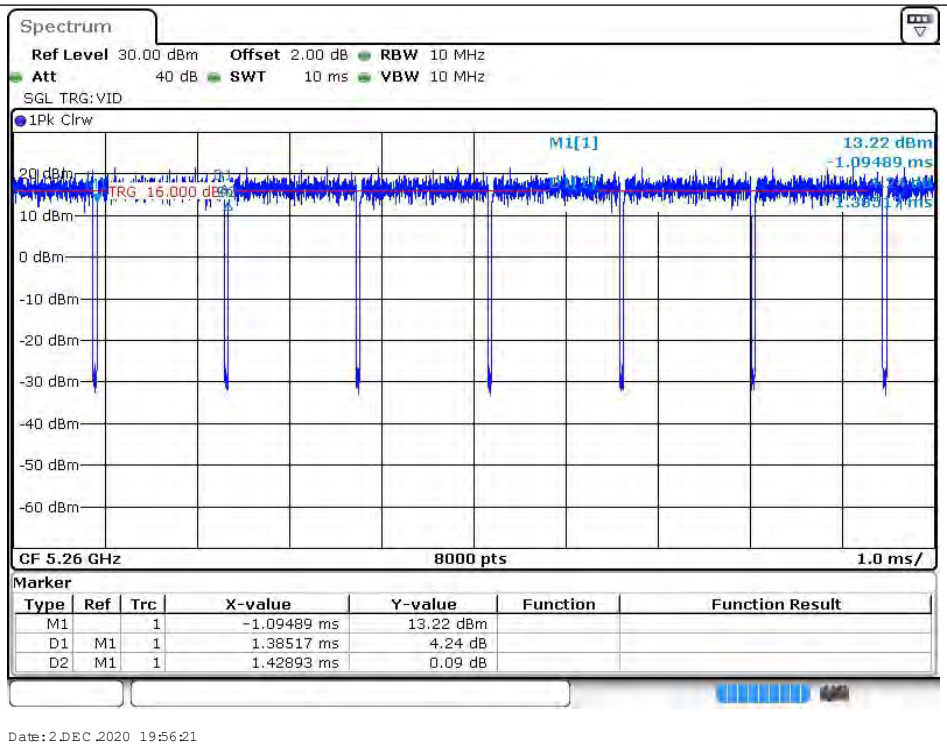

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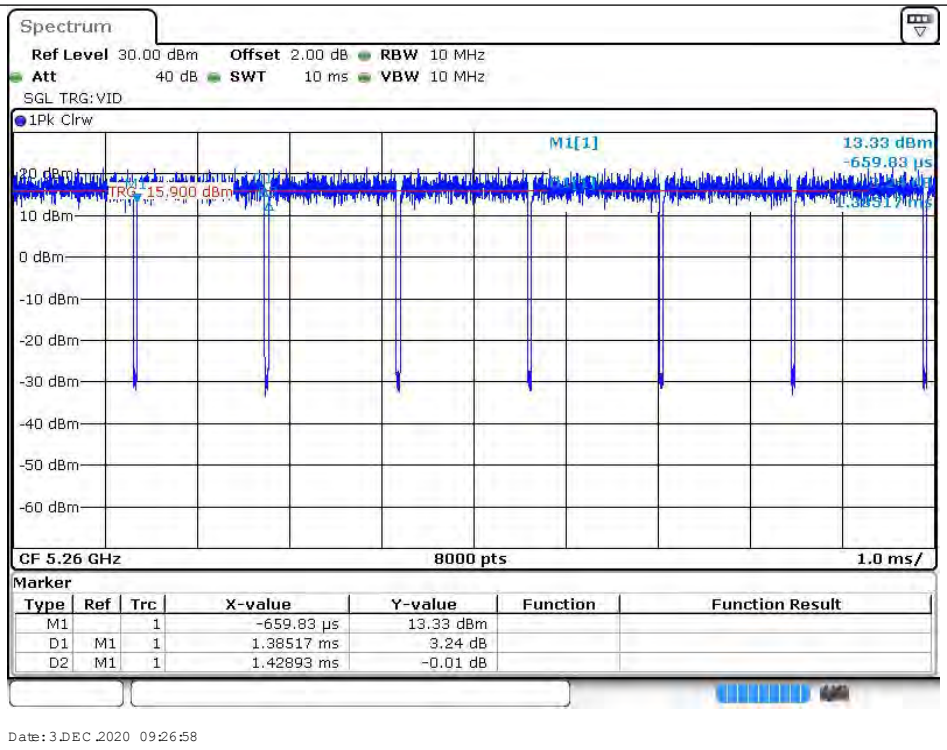

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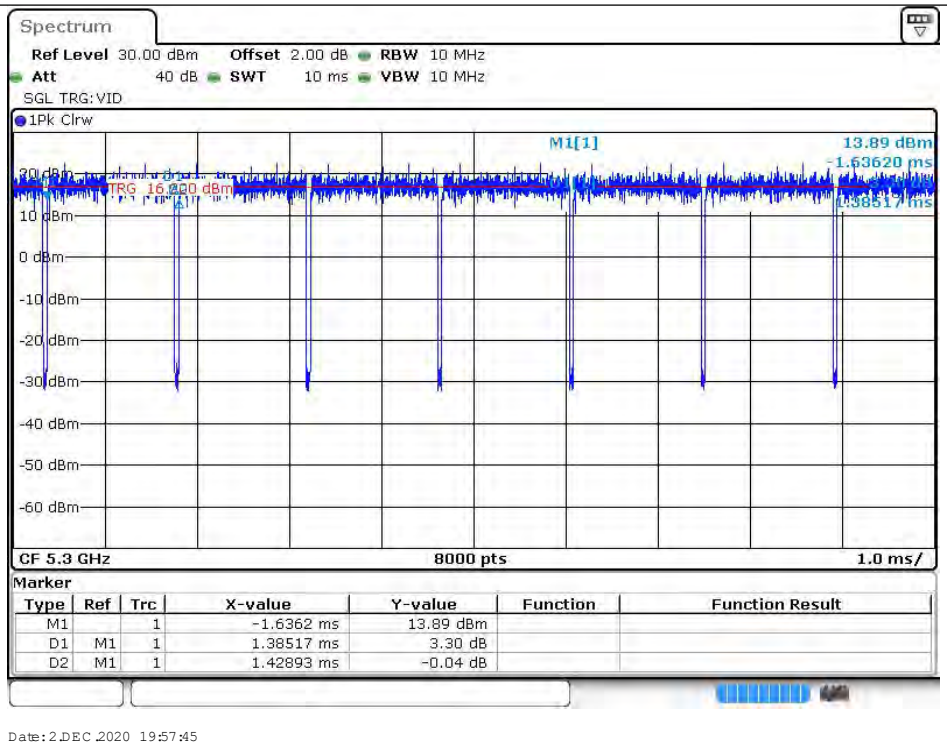

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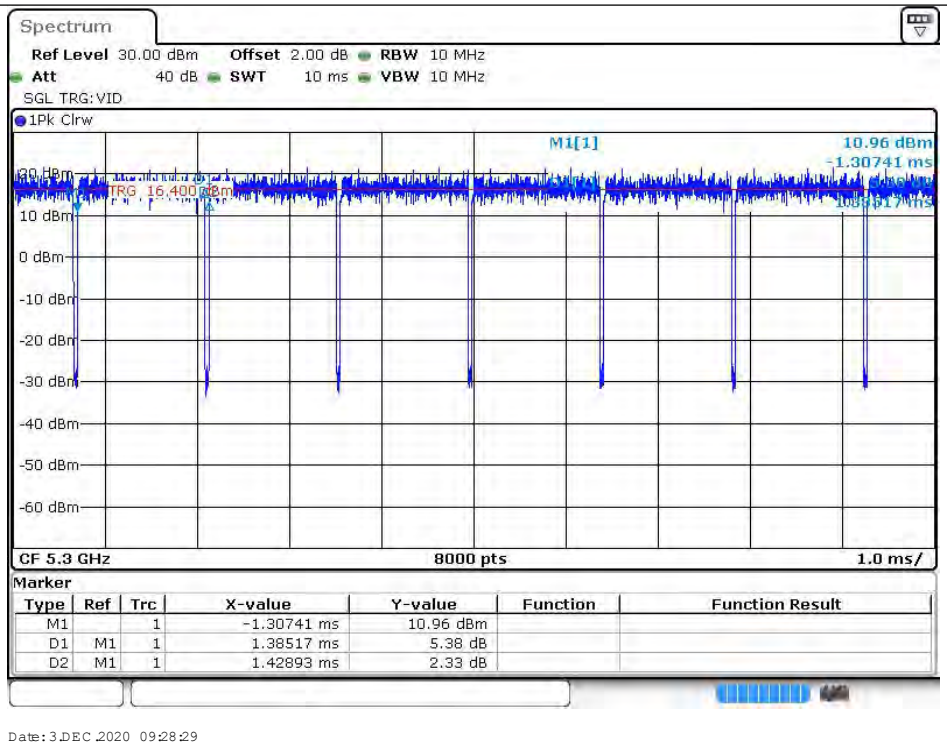

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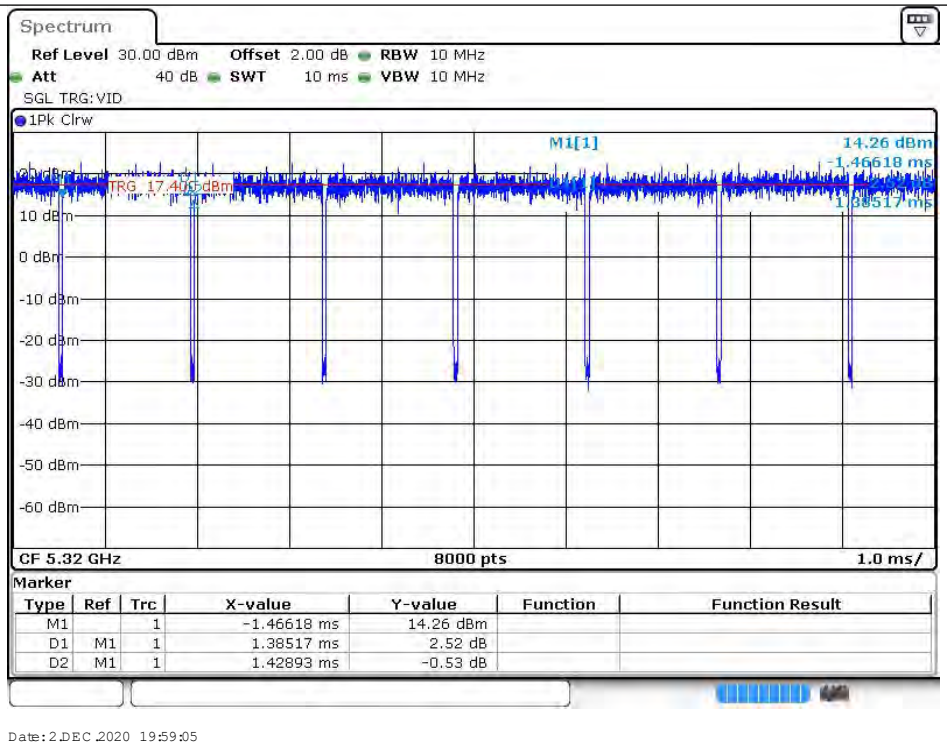

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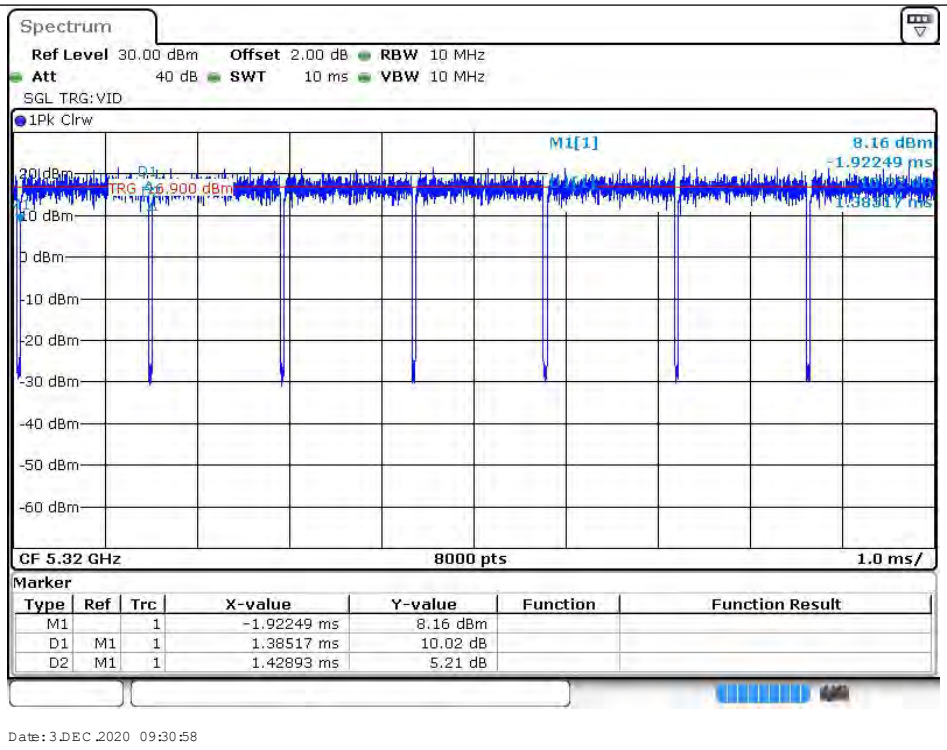

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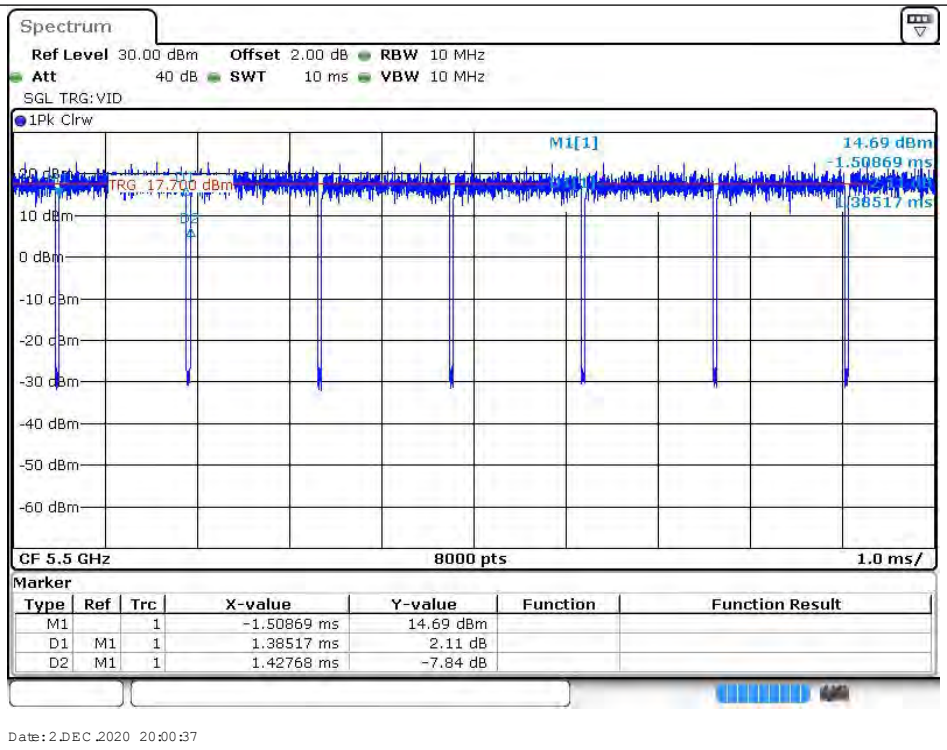

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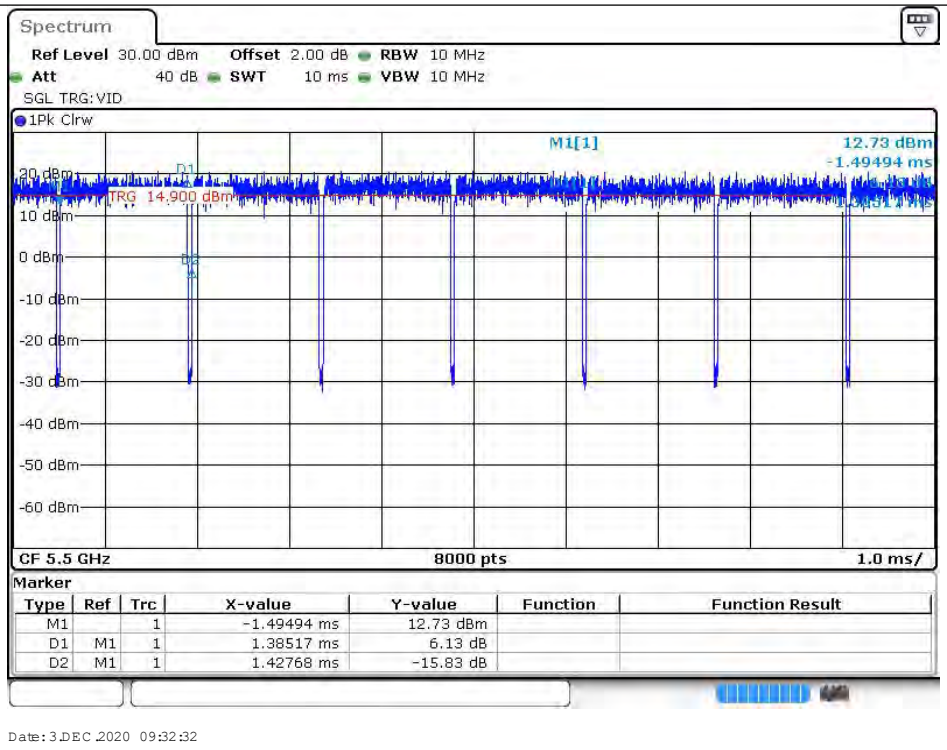

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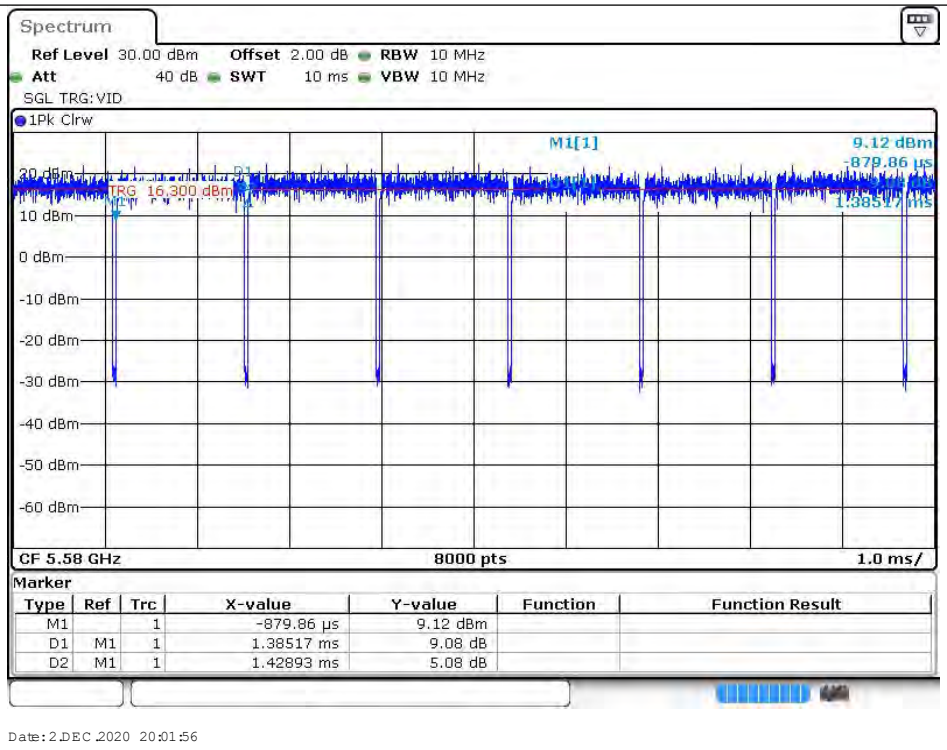

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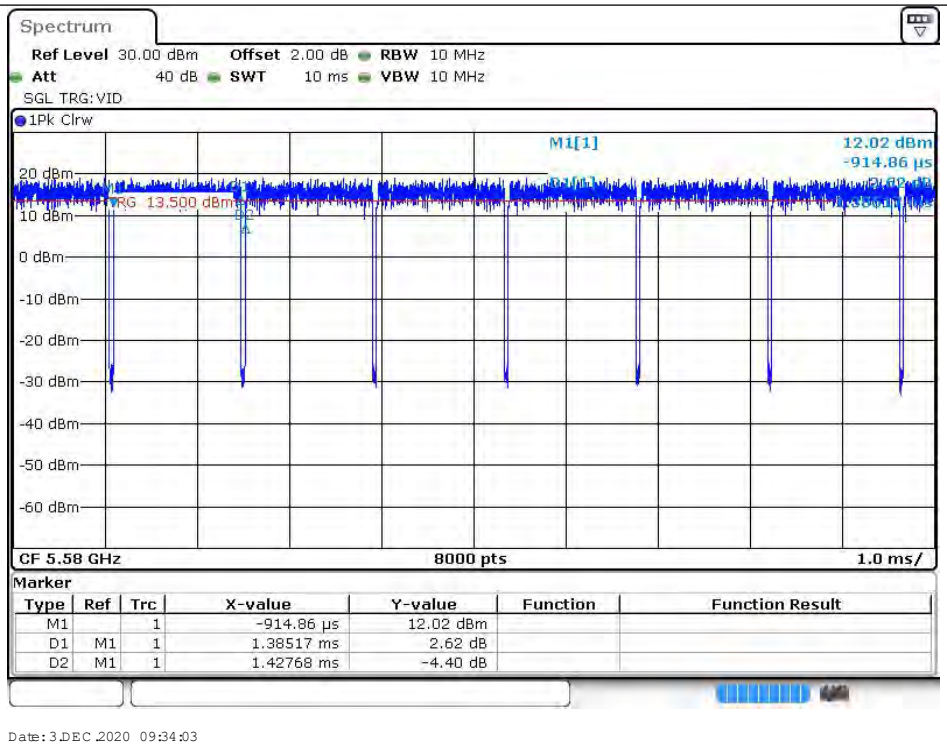

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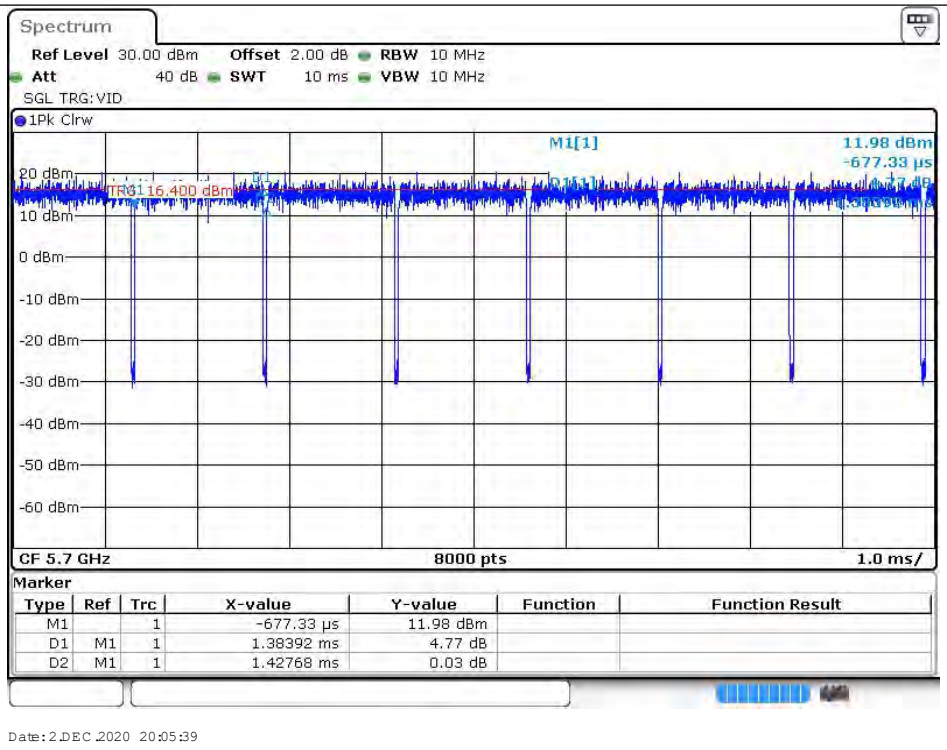

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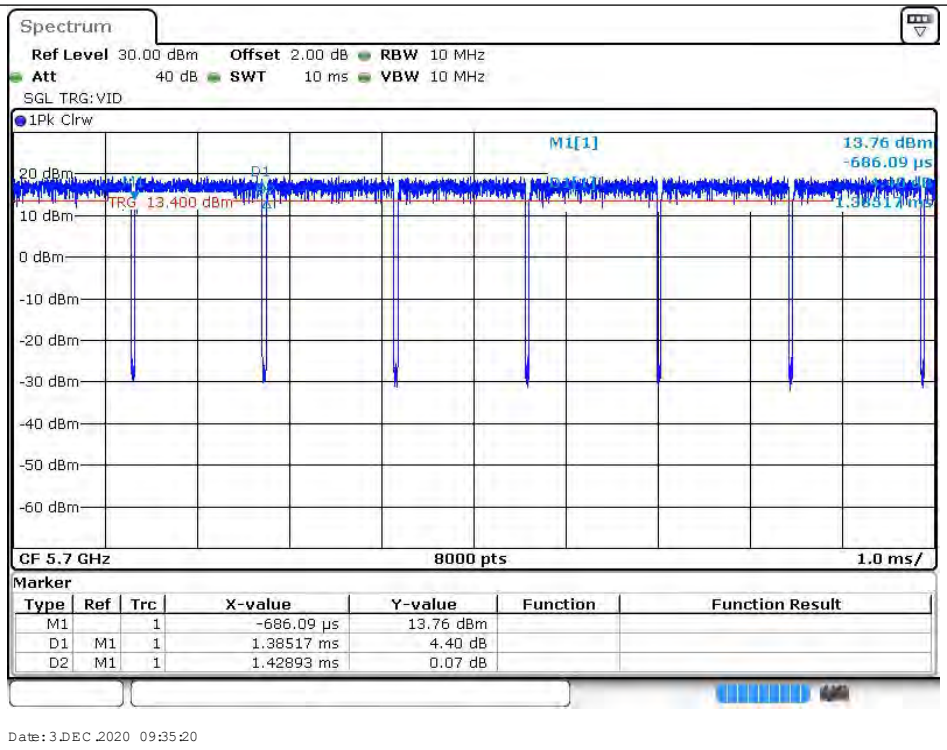

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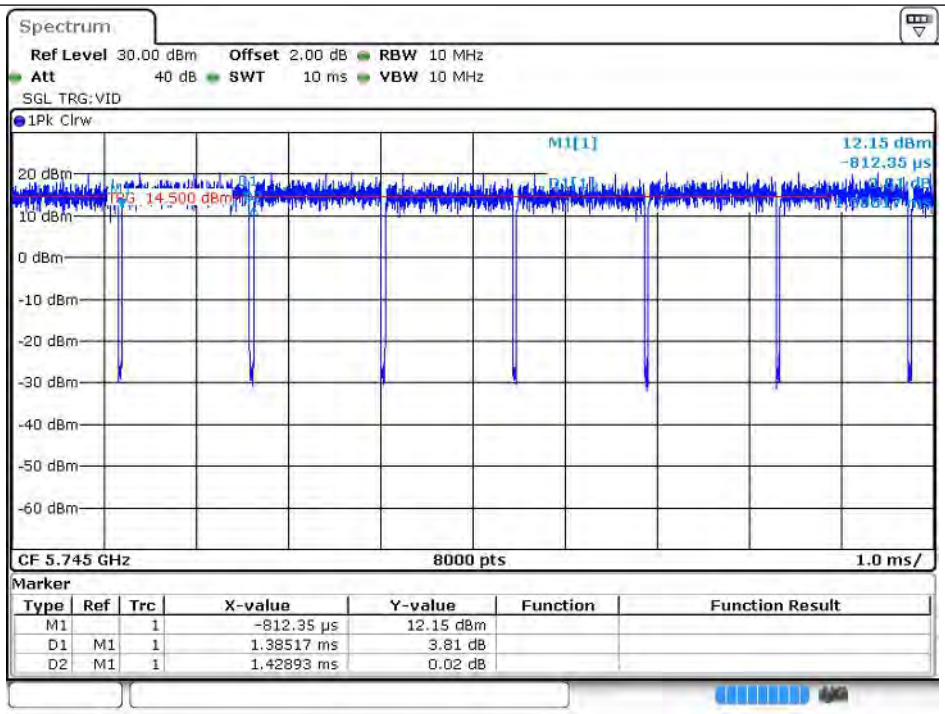

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