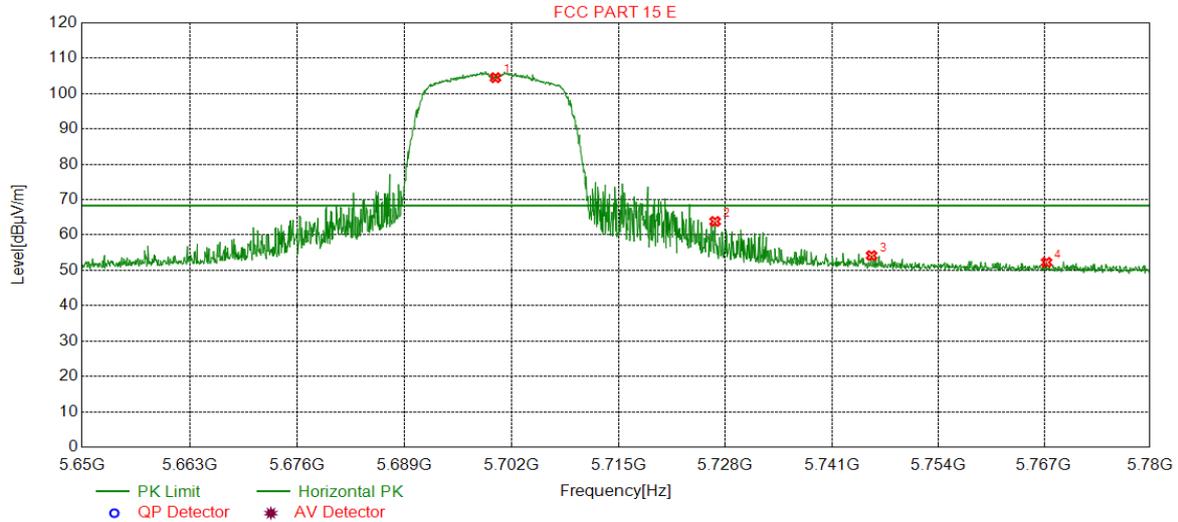


4.9.1.12 11A20_140 ANT 1_ Horizontal



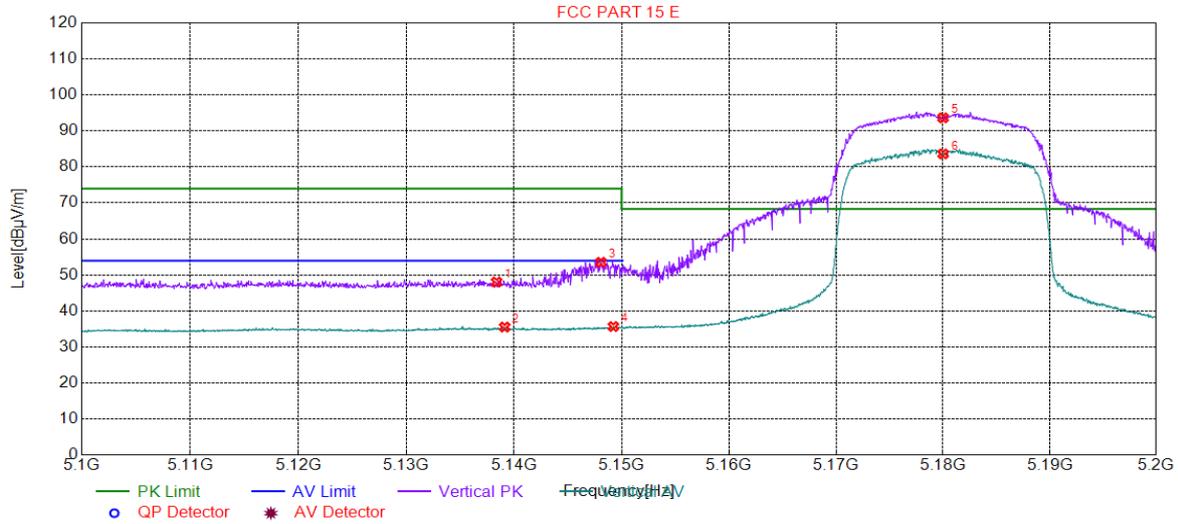
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5700.0000	104.51	8.51	68.30	-36.21	150	340	PK	Horizontal
2	5726.7384	63.85	8.57	68.30	4.45	150	328	PK	Horizontal
3	5745.8579	54.19	8.62	68.30	14.11	150	328	PK	Horizontal
4	5767.3187	52.27	8.66	68.30	16.03	150	314	PK	Horizontal



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4.9.1.13 11N20_36 ANT 1_Vertical

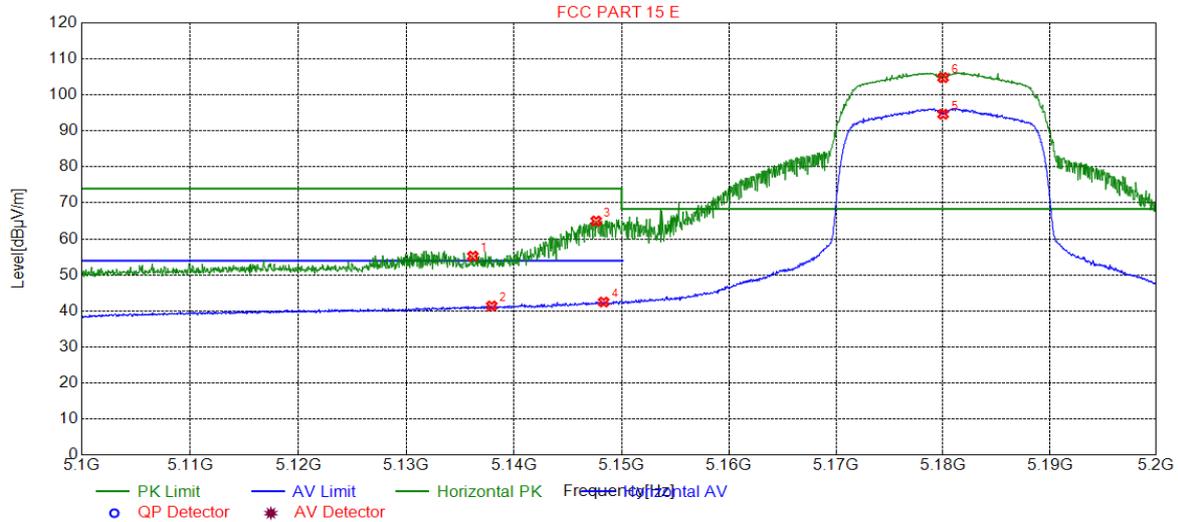


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5138.3692	48.05	7.54	74.00	25.95	150	118	PK	Vertical
2	5139.1196	35.55	7.54	54.00	18.45	150	304	AV	Vertical
3	5148.0740	53.55	7.55	74.00	20.45	150	299	PK	Vertical
4	5149.2246	35.70	7.55	54.00	18.30	150	299	AV	Vertical
5	5180.0000	93.64	7.61	68.30	-25.34	150	293	PK	Vertical
6	5180.0000	83.62	7.61	0.00	-83.62	150	299	AV	Vertical



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4.9.1.14 11N20_36 ANT 1_ Horizontal

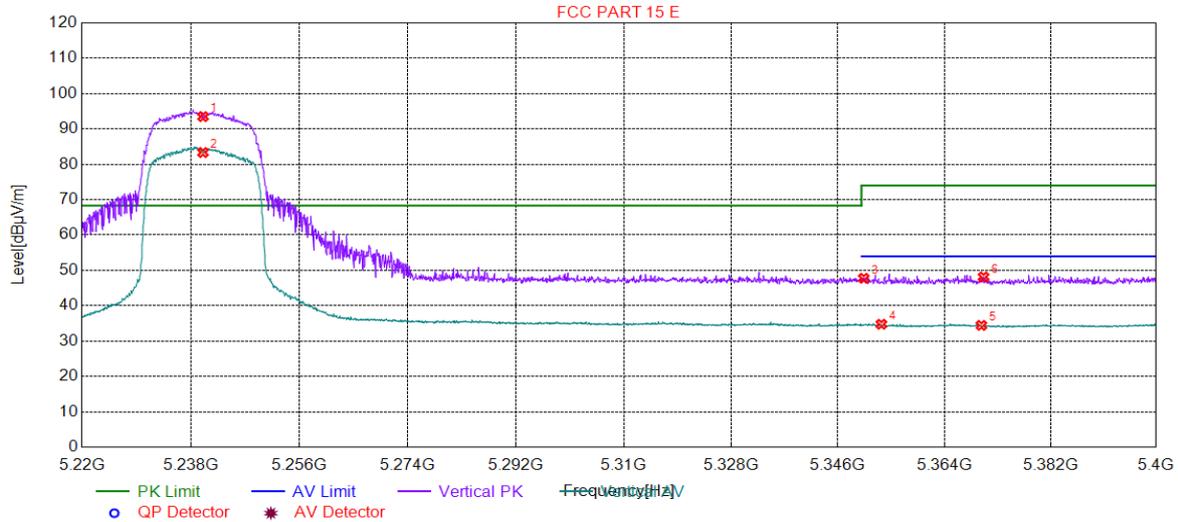


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5136.1681	55.23	7.53	74.00	18.77	150	347	PK	Horizontal
2	5137.9190	41.40	7.53	54.00	12.60	150	331	AV	Horizontal
3	5147.6238	65.00	7.55	74.00	9.00	150	331	PK	Horizontal
4	5148.3242	42.49	7.55	54.00	11.51	150	331	AV	Horizontal
5	5180.0000	94.65	7.61	0.00	-94.65	150	326	AV	Horizontal
6	5180.0000	104.81	7.61	68.30	-36.51	150	331	PK	Horizontal



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4.9.1.15 11N20_48 ANT 1_Vertical

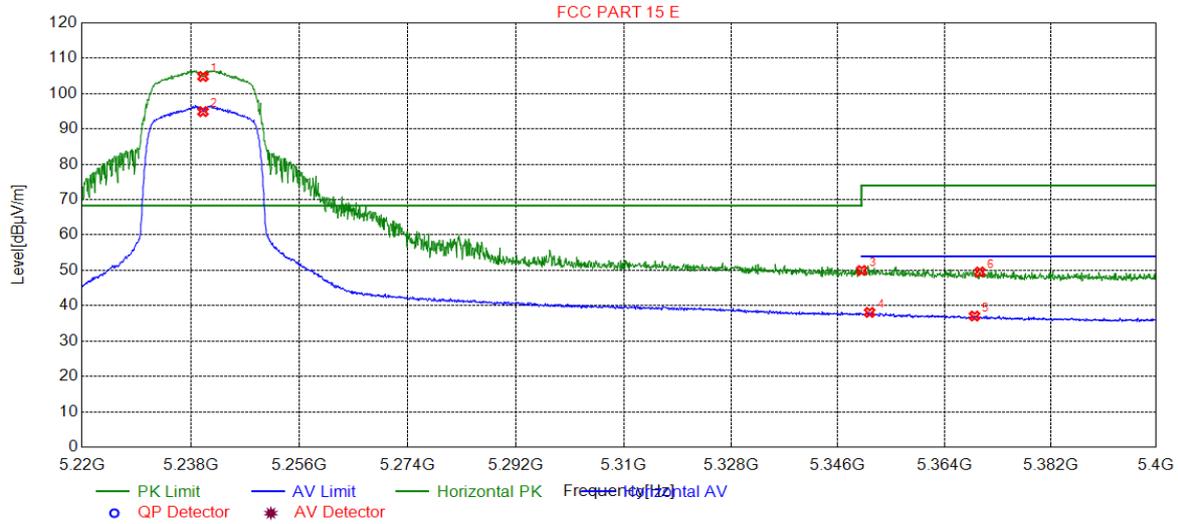


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5240.0000	93.50	7.68	68.30	-25.20	150	280	PK	Vertical
2	5240.0000	83.34	7.68	0.00	-83.34	150	308	AV	Vertical
3	5350.3852	47.76	7.84	74.00	26.24	150	322	PK	Vertical
4	5353.3567	34.78	7.85	54.00	19.22	150	16	AV	Vertical
5	5370.2851	34.46	7.88	54.00	19.54	150	55	AV	Vertical
6	5370.6453	48.14	7.88	74.00	25.86	150	350	PK	Vertical



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4.9.1.16 11N20_48 ANT 1_ Horizontal



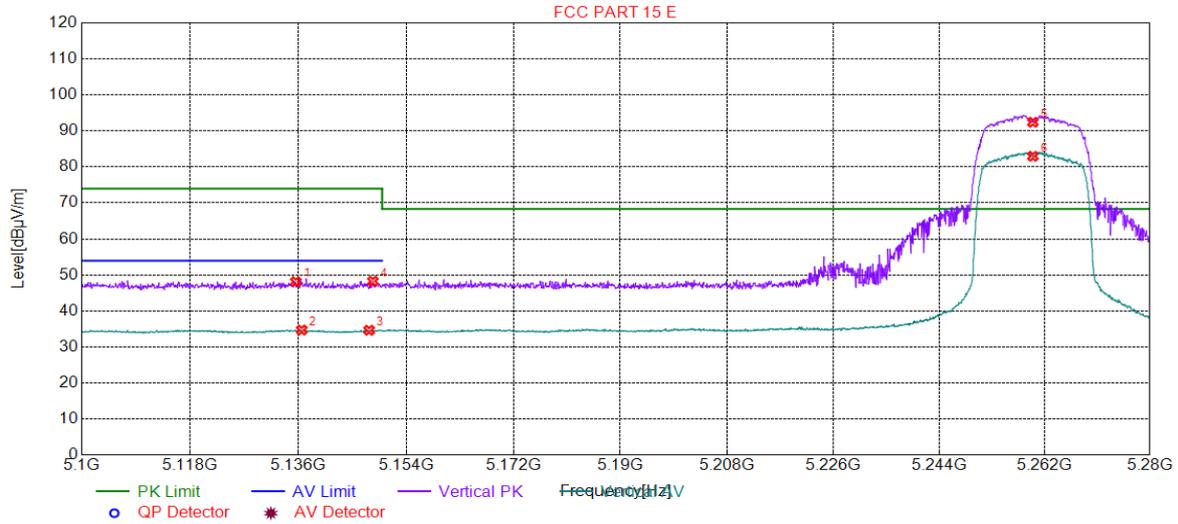
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5240.0000	104.84	7.68	68.30	-36.54	150	331	PK	Horizontal
2	5240.0000	94.90	7.68	0.00	-94.90	150	324	AV	Horizontal
3	5350.0250	49.97	7.84	74.00	24.03	150	338	PK	Horizontal
4	5351.3757	38.11	7.84	54.00	15.89	150	331	AV	Horizontal
5	5369.1146	37.09	7.88	54.00	16.91	150	324	AV	Horizontal
6	5370.0150	49.55	7.88	74.00	24.45	150	331	PK	Horizontal



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4.9.1.17 11N20_52 ANT 1_Vertical



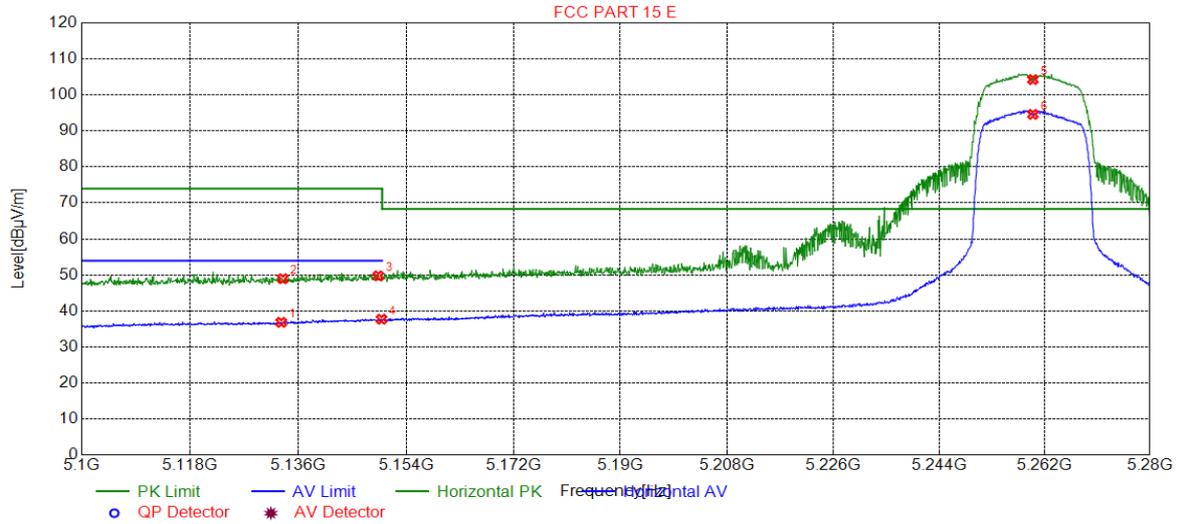
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5135.5678	48.12	7.53	74.00	25.88	150	274	PK	Vertical
2	5136.5583	34.73	7.53	54.00	19.27	150	246	AV	Vertical
3	5147.8139	34.66	7.55	54.00	19.34	150	336	AV	Vertical
4	5148.4442	48.26	7.55	74.00	25.74	150	16	PK	Vertical
5	5260.0000	92.41	7.70	68.30	-24.11	150	302	PK	Vertical
6	5260.0000	82.97	7.70	0.00	-82.97	150	302	AV	Vertical



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4.9.1.18 11N20_52 ANT 1_ Horizontal



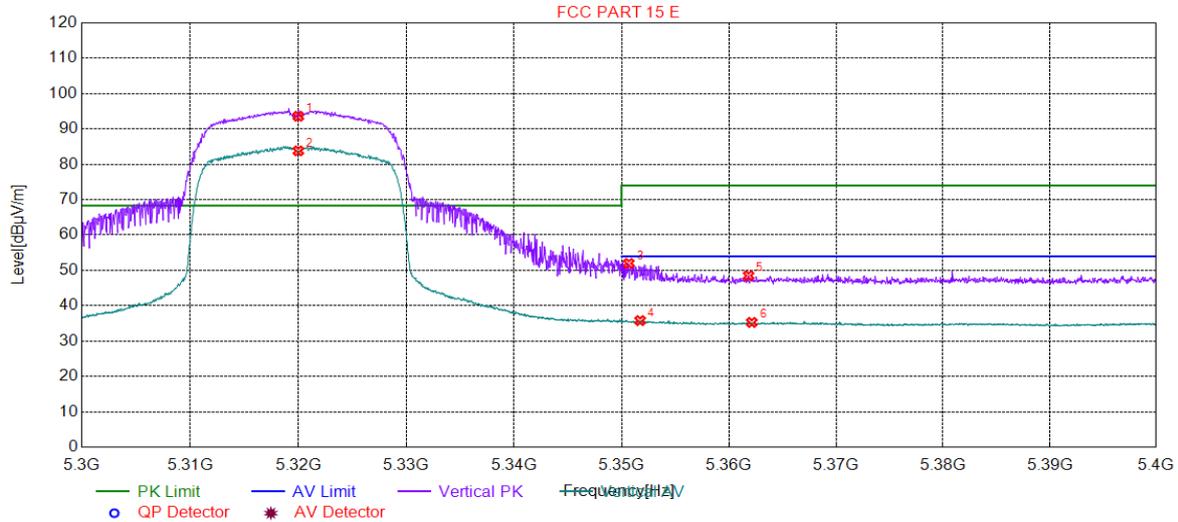
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5133.1366	36.86	7.53	54.00	17.14	150	331	AV	Horizontal
2	5133.4067	48.97	7.53	74.00	25.03	150	344	PK	Horizontal
3	5149.3447	49.76	7.55	74.00	24.24	150	331	PK	Horizontal
4	5149.8849	37.73	7.55	54.00	16.27	150	331	AV	Horizontal
5	5260.0000	104.27	7.70	68.30	-35.97	150	331	PK	Horizontal
6	5260.0000	94.60	7.70	0.00	-94.60	150	331	AV	Horizontal



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4.9.1.19 11N20_64 ANT 1_Vertical



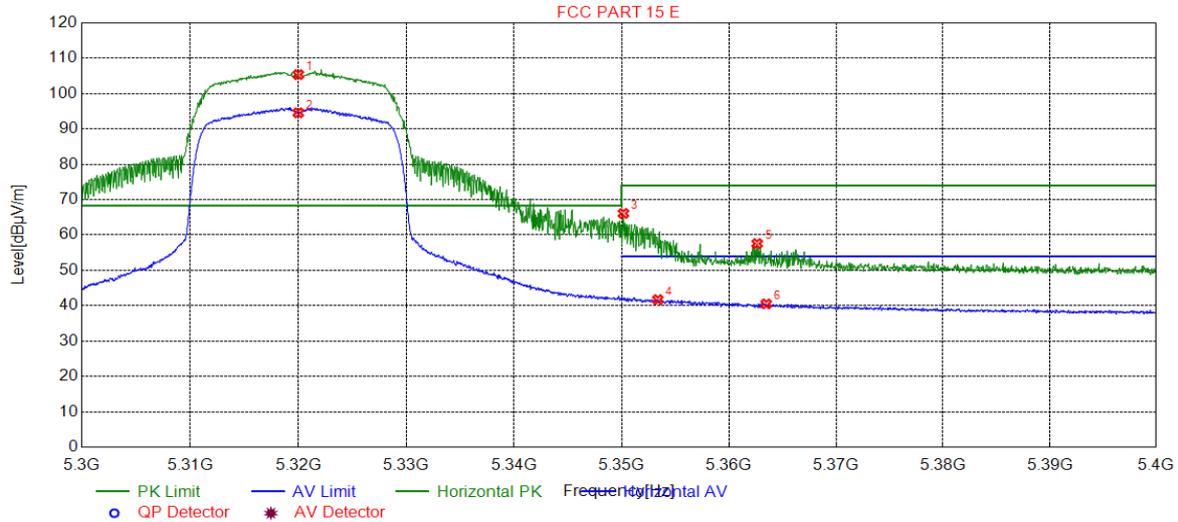
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5320.0000	93.60	7.78	68.30	-25.30	150	308	PK	Vertical
2	5320.0000	83.81	7.78	0.00	-83.81	150	308	AV	Vertical
3	5350.6753	51.99	7.84	74.00	22.01	150	322	PK	Vertical
4	5351.7259	35.80	7.84	54.00	18.20	150	301	AV	Vertical
5	5361.8309	48.49	7.86	74.00	25.51	150	253	PK	Vertical
6	5362.1311	35.29	7.86	54.00	18.71	150	308	AV	Vertical



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4.9.1.20 11N20_64 ANT 1_ Horizontal



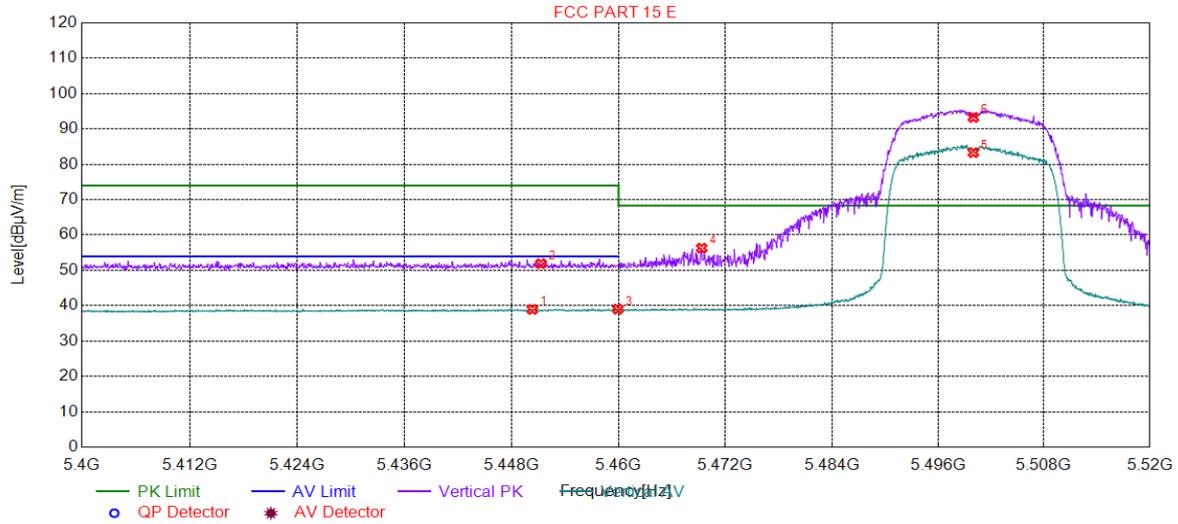
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5320.0000	105.37	7.78	68.30	-37.07	150	336	PK	Horizontal
2	5320.0000	94.57	7.78	0.00	-94.57	150	328	AV	Horizontal
3	5350.1751	66.11	7.84	74.00	7.89	150	322	PK	Horizontal
4	5353.3767	41.73	7.85	54.00	12.27	150	328	AV	Horizontal
5	5362.6313	57.58	7.87	74.00	16.42	150	322	PK	Horizontal
6	5363.4817	40.52	7.87	54.00	13.48	150	328	AV	Horizontal



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4.9.1.21 11N20_100 ANT 1_Vertical



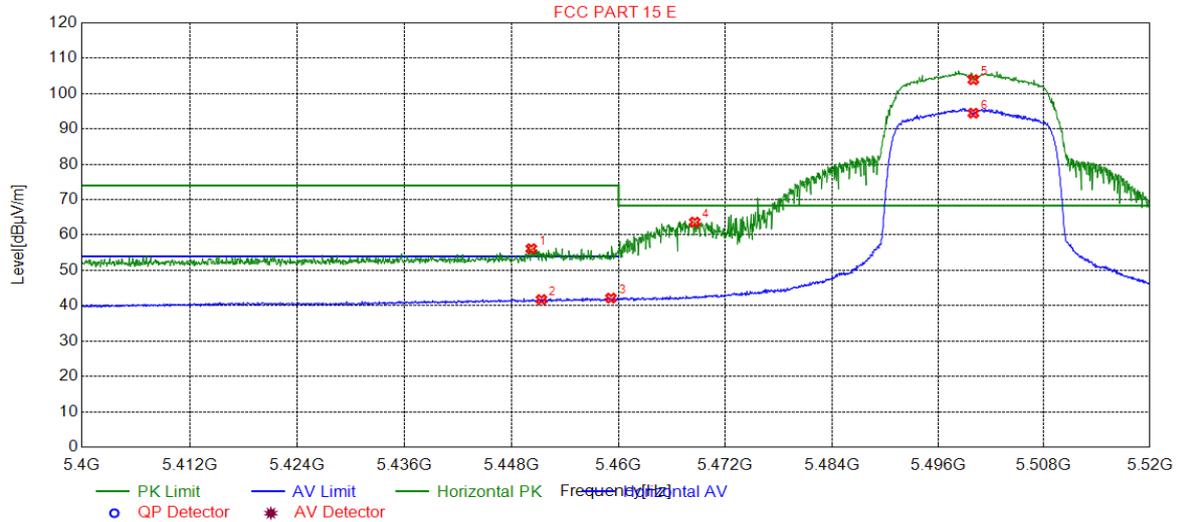
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5450.3052	38.95	8.02	54.00	15.05	150	296	AV	Vertical
2	5451.2656	51.91	8.02	74.00	22.09	150	334	PK	Vertical
3	5459.9100	39.03	8.04	54.00	14.97	150	269	AV	Vertical
4	5469.3347	56.29	8.05	68.30	12.01	150	296	PK	Vertical
5	5500.0000	83.31	8.10	0.00	-83.31	150	274	AV	Vertical
6	5500.0000	93.28	8.10	68.30	-24.98	150	296	PK	Vertical



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4.9.1.22 11N20_100 ANT 1_ Horizontal



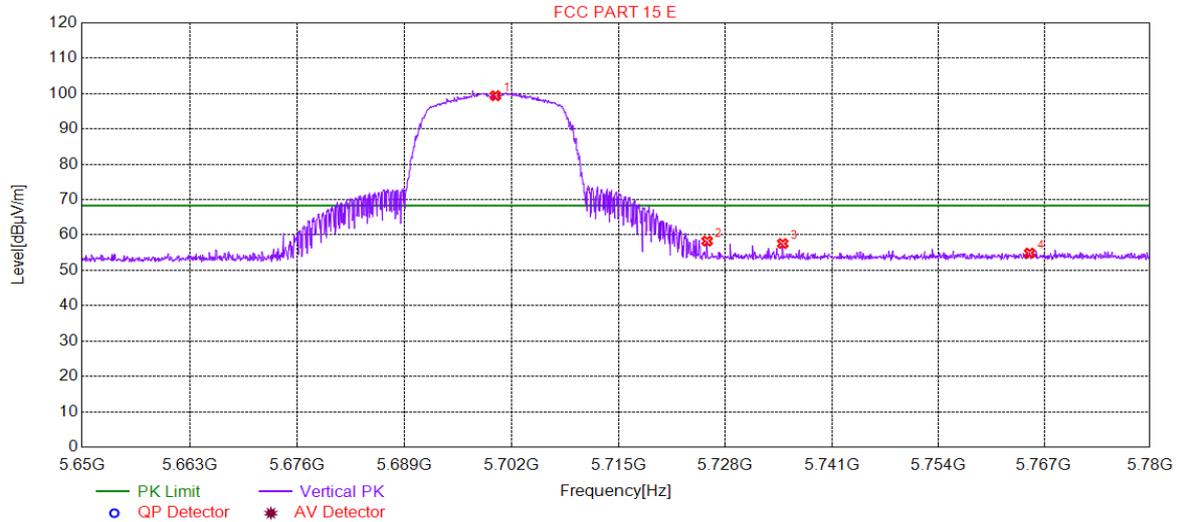
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5450.1851	56.14	8.02	74.00	17.86	150	320	PK	Horizontal
2	5451.3257	41.75	8.02	54.00	12.25	150	325	AV	Horizontal
3	5459.1296	42.16	8.03	54.00	11.84	150	320	AV	Horizontal
4	5468.5543	63.65	8.05	68.30	4.65	150	330	PK	Horizontal
5	5500.0000	103.94	8.10	68.30	-35.64	150	325	PK	Horizontal
6	5500.0000	94.48	8.10	0.00	-94.48	150	320	AV	Horizontal



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4.9.1.23 11N20_140 ANT 1_Vertical



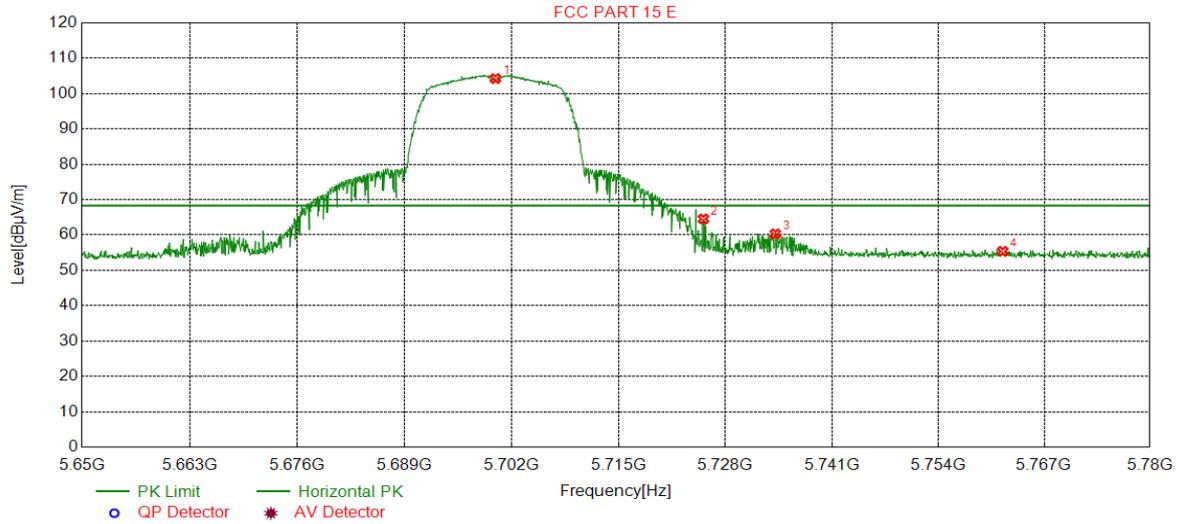
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5700.0000	99.41	16.58	68.30	-31.11	150	24	PK	Vertical
2	5725.7629	58.28	16.67	68.30	10.02	150	16	PK	Vertical
3	5734.9975	57.59	16.71	68.30	10.71	150	34	PK	Vertical
4	5765.2376	54.89	16.81	68.30	13.41	150	75	PK	Vertical



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4.9.1.24 11N20_140 ANT 1_ Horizontal



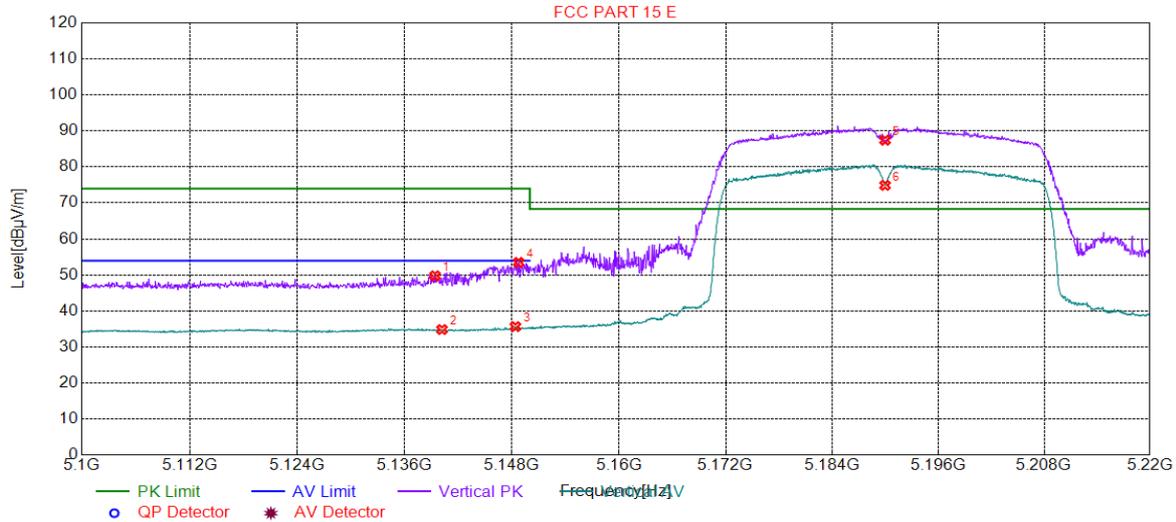
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5700.0000	104.25	16.58	68.30	-35.95	150	335	PK	Horizontal
2	5725.3077	64.57	16.67	68.30	3.73	150	335	PK	Horizontal
3	5734.0870	60.32	16.70	68.30	7.98	150	335	PK	Horizontal
4	5761.9210	55.38	16.80	68.30	12.92	150	21	PK	Horizontal



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4.9.1.25 11N40_38 ANT 1_Vertical



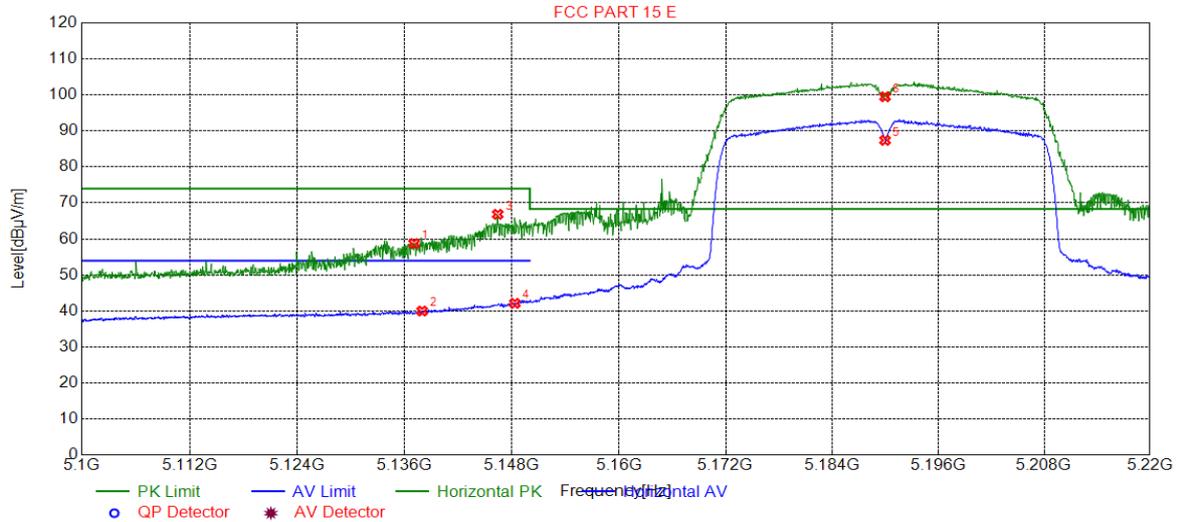
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5139.3797	49.77	7.54	74.00	24.23	150	291	PK	Vertical
2	5140.1601	34.86	7.54	54.00	19.14	150	324	AV	Vertical
3	5148.3842	35.67	7.55	54.00	18.33	150	302	AV	Vertical
4	5148.7444	53.51	7.55	74.00	20.49	150	269	PK	Vertical
5	5190.0000	87.44	7.62	68.30	-19.14	150	302	AV	Vertical
6	5190.0000	74.91	7.62	0.00	-74.91	150	307	PK	Vertical



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4.9.1.26 11N40_38 ANT 1_ Horizontal



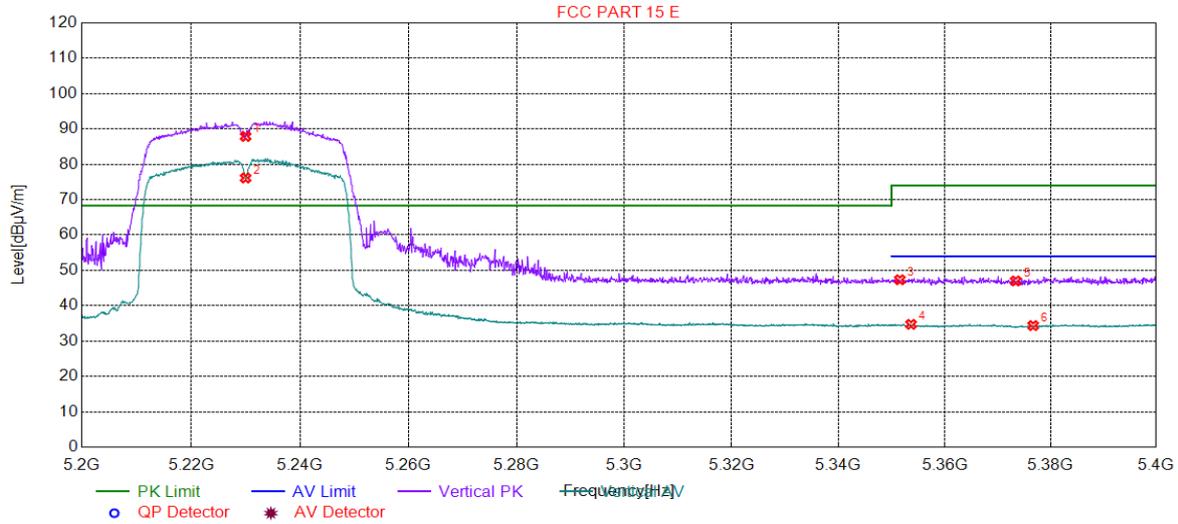
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5137.0385	58.74	7.53	74.00	15.26	150	331	PK	Horizontal
2	5137.9390	39.99	7.53	54.00	14.01	150	336	AV	Horizontal
3	5146.4032	66.85	7.55	74.00	7.15	150	331	PK	Horizontal
4	5148.3242	42.13	7.55	54.00	11.87	150	336	AV	Horizontal
5	5190.0000	87.40	7.62	0.00	-87.40	150	326	AV	Horizontal
6	5190.0000	99.49	7.62	68.30	-31.19	150	346	PK	Horizontal



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4.9.1.27 11N40_46 ANT 1_Vertical

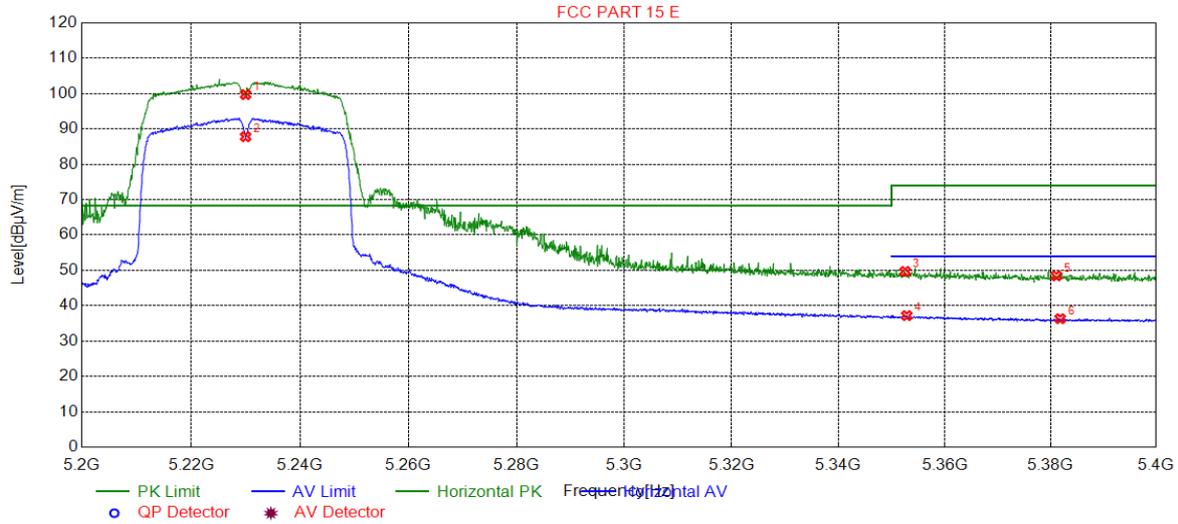


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5230.0000	87.89	7.67	68.30	-19.59	150	299	PK	Vertical
2	5230.0000	76.13	7.67	0.00	-76.13	150	299	AV	Vertical
3	5351.5758	47.35	7.84	74.00	26.65	150	15	PK	Vertical
4	5353.6768	34.75	7.85	54.00	19.25	150	279	AV	Vertical
5	5373.3867	47.01	7.89	74.00	26.99	150	286	PK	Vertical
6	5376.6883	34.40	7.89	54.00	19.60	150	55	AV	Vertical



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4.9.1.28 11N40_46 ANT 1_ Horizontal



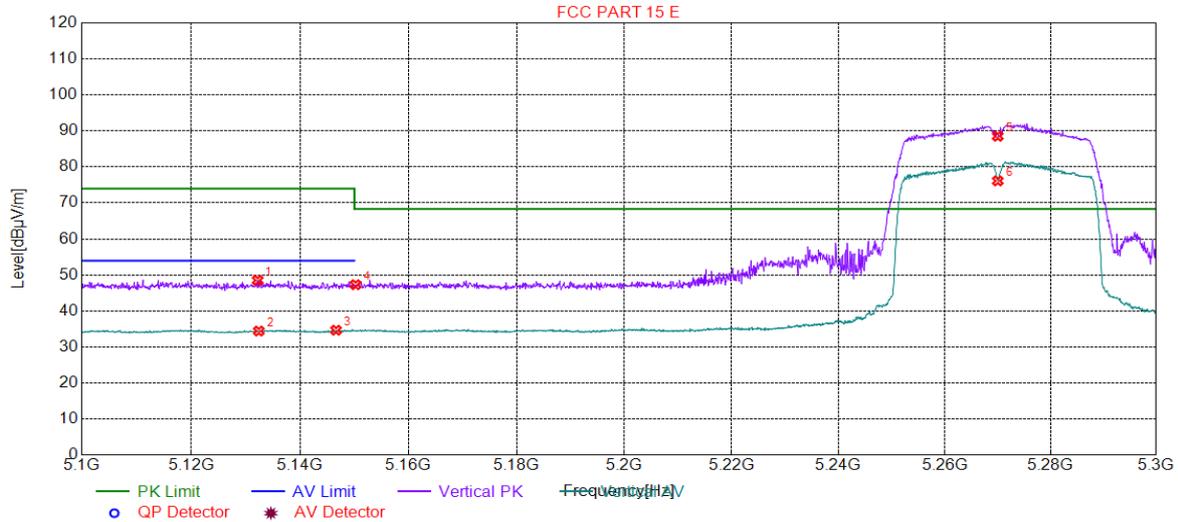
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5230.0000	99.72	7.67	68.30	-31.42	150	338	PK	Horizontal
2	5230.0000	87.81	7.67	0.00	-87.81	150	338	AV	Horizontal
3	5352.5763	49.70	7.85	74.00	24.30	150	325	PK	Horizontal
4	5352.8764	37.21	7.85	54.00	16.79	150	331	AV	Horizontal
5	5381.0905	48.45	7.90	74.00	25.55	150	325	PK	Horizontal
6	5381.7909	36.34	7.90	54.00	17.66	150	325	AV	Horizontal



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4.9.1.29 11N40_54 ANT 1_Vertical

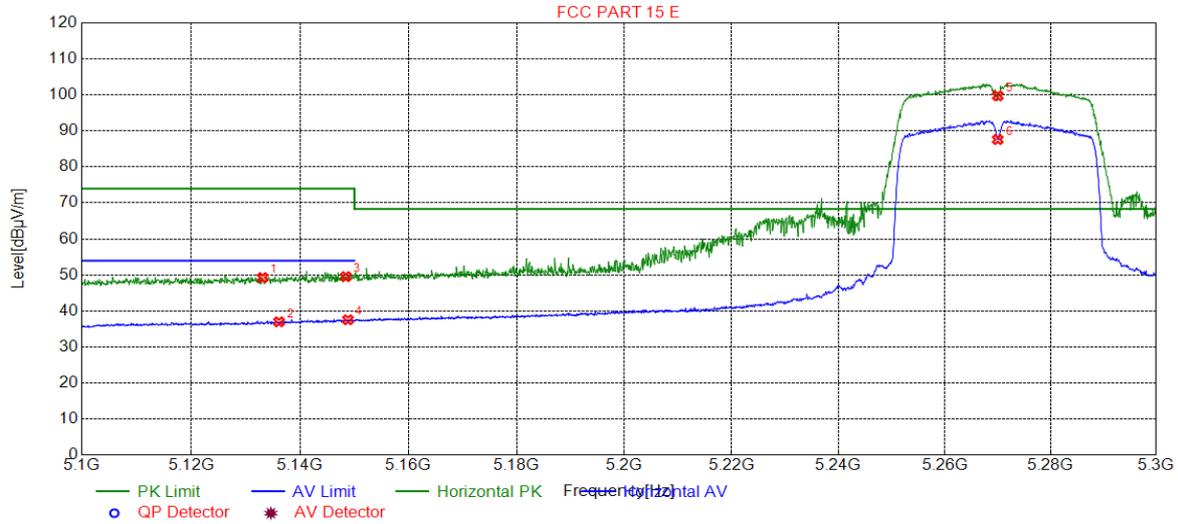


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5132.2161	48.52	7.52	74.00	25.48	150	48	PK	Vertical
2	5132.4162	34.45	7.53	54.00	19.55	150	319	AV	Vertical
3	5146.6233	34.68	7.55	54.00	19.32	150	312	AV	Vertical
4	5150.2251	47.31	7.56	68.30	20.99	150	333	PK	Vertical
5	5270.0000	88.53	7.71	68.30	-20.23	150	291	PK	Vertical
6	5270.0000	76.13	7.71	0.00	-76.13	150	319	AV	Vertical



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4.9.1.30 11N40_54 ANT 1_ Horizontal



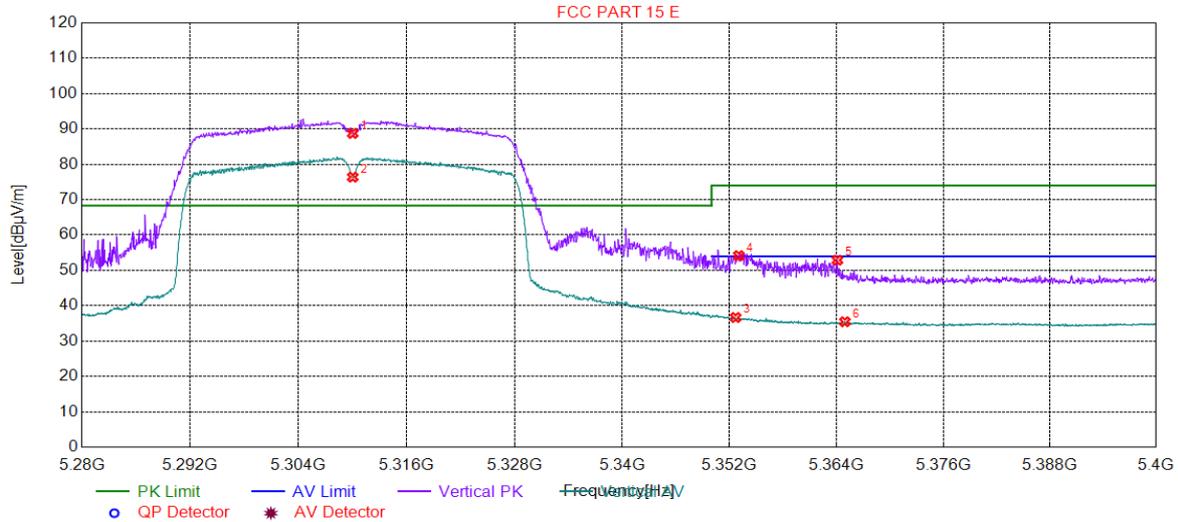
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5133.1166	49.27	7.53	74.00	24.73	150	344	PK	Horizontal
2	5136.1181	37.00	7.53	54.00	17.00	150	338	AV	Horizontal
3	5148.4242	49.53	7.55	74.00	24.47	150	338	PK	Horizontal
4	5148.8244	37.57	7.55	54.00	16.43	150	338	AV	Horizontal
5	5270.0000	99.76	7.71	68.30	-31.46	150	312	PK	Horizontal
6	5270.0000	87.61	7.71	0.00	-87.61	150	332	AV	Horizontal



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4.9.1.31 11N40_62 ANT 1_Vertical

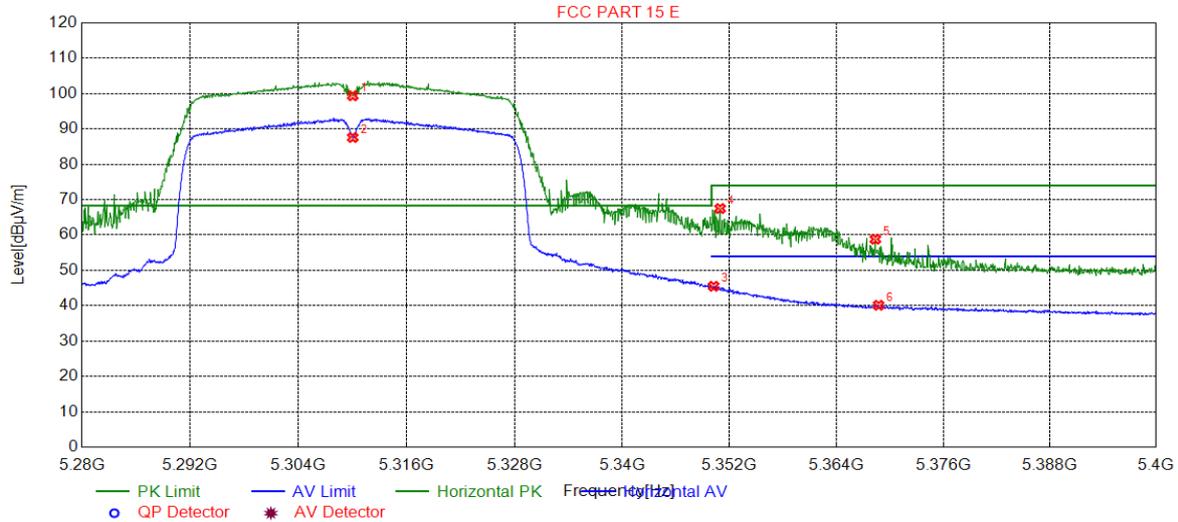


NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5310.0000	88.73	7.76	68.30	-20.43	150	290	PK	Vertical
2	5310.0000	76.38	7.76	0.00	-76.38	150	311	AV	Vertical
3	5352.6963	36.68	7.85	54.00	17.32	150	290	AV	Vertical
4	5353.0565	54.18	7.85	74.00	19.82	150	276	PK	Vertical
5	5364.1021	52.90	7.87	74.00	21.10	150	297	PK	Vertical
6	5364.9425	35.48	7.87	54.00	18.52	150	290	AV	Vertical



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4.9.1.32 11N40_62 ANT 1_ Horizontal



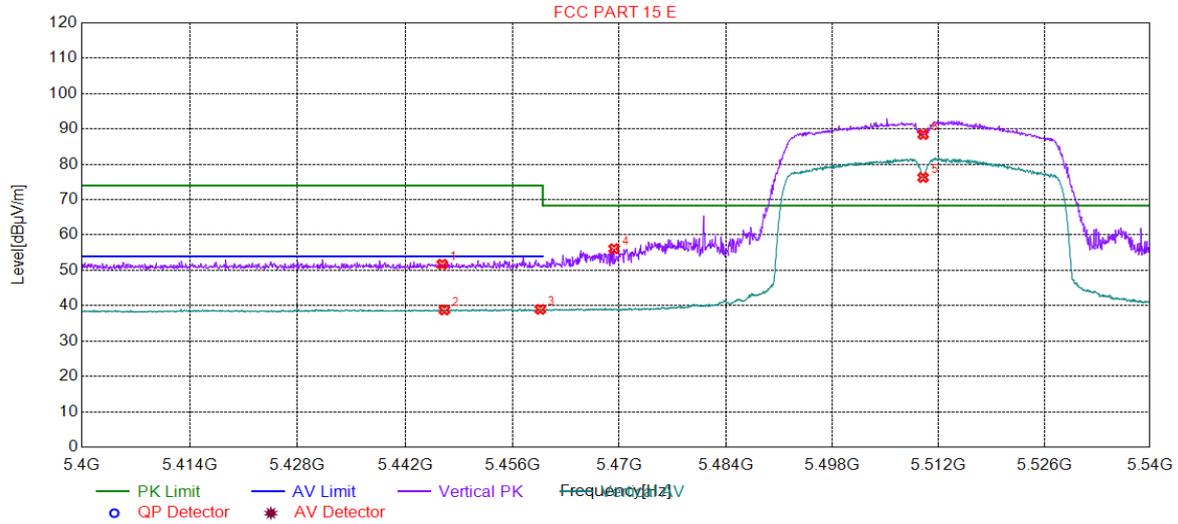
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5310.0000	99.39	7.76	68.30	-31.09	150	332	PK	Horizontal
2	5310.0000	87.59	7.76	0.00	-87.59	150	338	AV	Horizontal
3	5350.2351	45.51	7.84	54.00	8.49	150	332	AV	Horizontal
4	5350.9555	67.50	7.84	74.00	6.50	150	318	PK	Horizontal
5	5368.3642	58.82	7.88	74.00	15.18	150	332	PK	Horizontal
6	5368.7244	40.14	7.88	54.00	13.86	150	332	AV	Horizontal



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4.9.1.33 11N40_102 ANT 1_Vertical



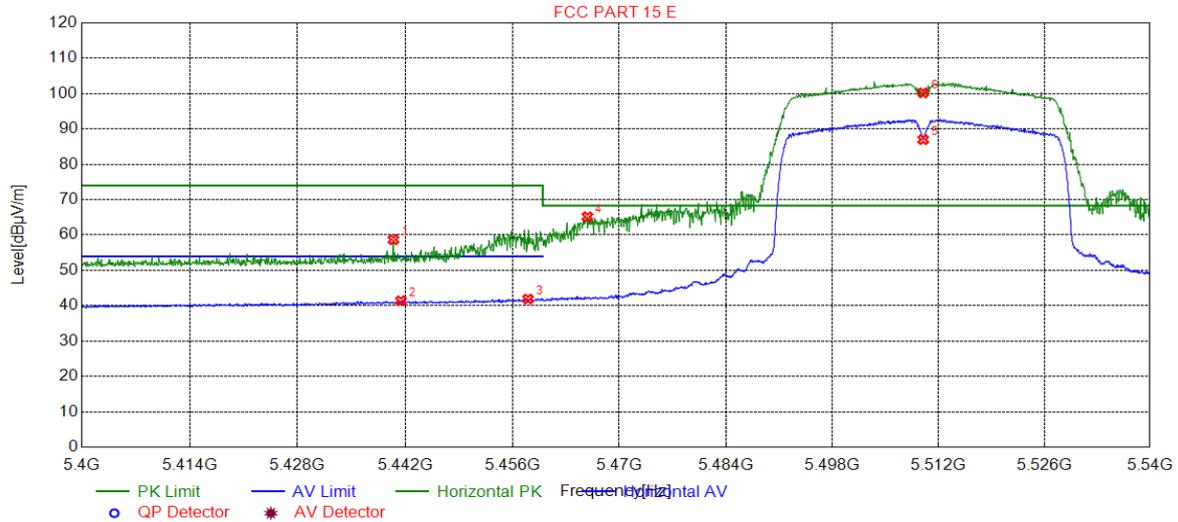
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5446.8534	51.74	8.01	74.00	22.26	150	349	PK	Vertical
2	5447.1336	38.81	8.02	54.00	15.19	150	259	AV	Vertical
3	5459.6698	38.97	8.04	54.00	15.03	150	322	AV	Vertical
4	5469.3347	56.12	8.05	68.30	12.18	150	294	PK	Vertical
5	5510.0000	76.27	8.13	0.00	-76.27	150	301	AV	Vertical
6	5510.0000	88.43	8.13	68.30	-20.13	150	308	PK	Vertical



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4.9.1.34 11N40_102 ANT 1_ Horizontal



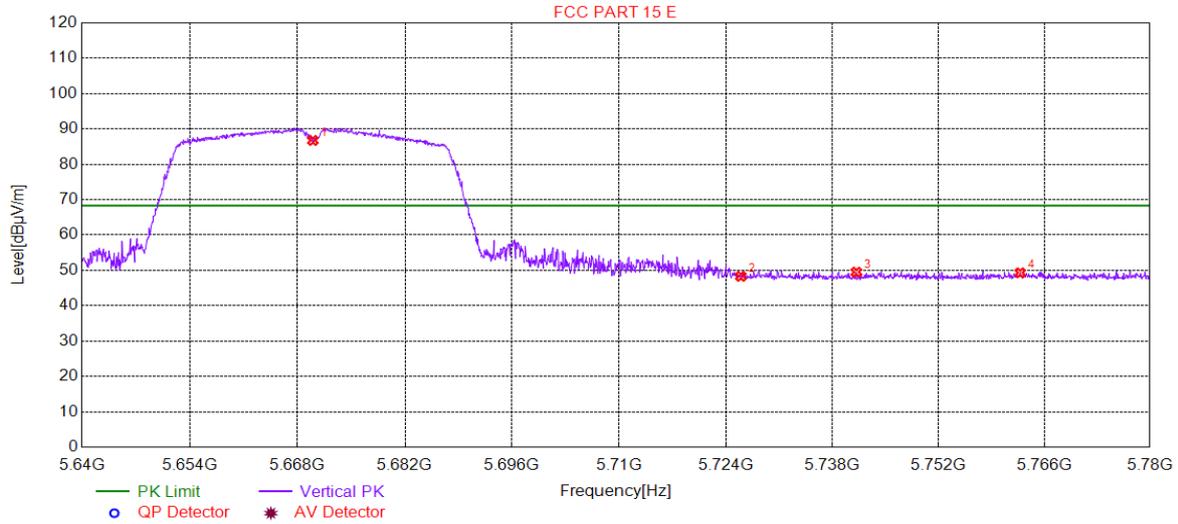
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5440.4802	58.68	8.00	74.00	15.32	150	344	PK	Horizontal
2	5441.4607	41.41	8.01	54.00	12.59	150	331	AV	Horizontal
3	5458.0590	41.90	8.03	54.00	12.10	150	331	AV	Horizontal
4	5465.8329	65.19	8.05	68.30	3.11	150	325	PK	Horizontal
5	5510.0000	87.00	8.13	0.00	-87.00	150	331	AV	Horizontal
6	5510.0000	100.22	8.13	68.30	-31.92	150	318	PK	Horizontal



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4.9.1.35 11N40_134 ANT 1_Vertical



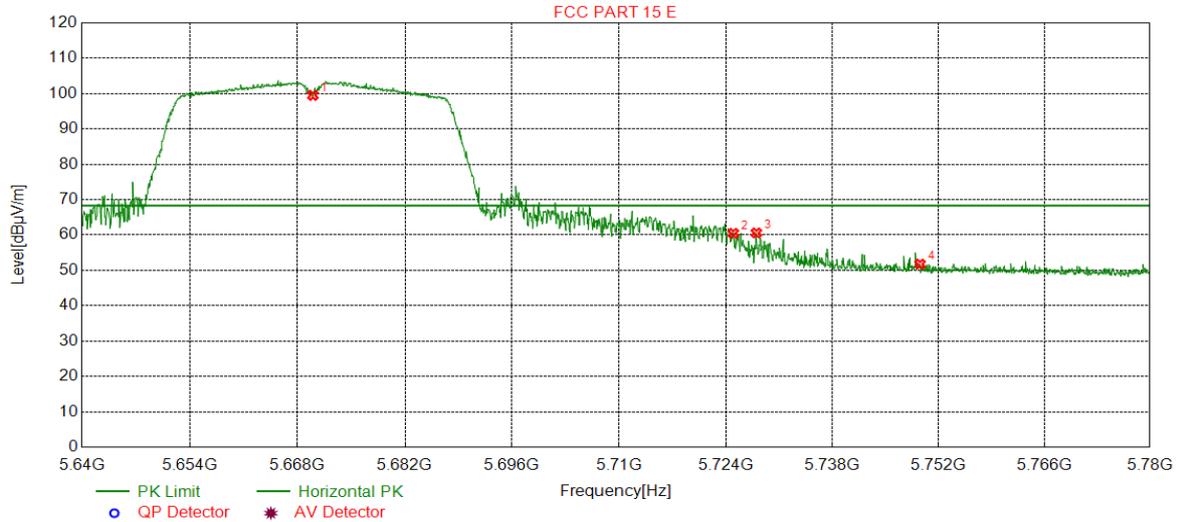
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5670.0000	86.75	8.46	68.30	-18.45	150	276	PK	Vertical
2	5726.0000	48.30	8.57	68.30	20.00	150	317	PK	Vertical
3	5741.2006	49.51	8.60	68.30	18.79	150	28	PK	Vertical
4	5762.8414	49.31	8.65	68.30	18.99	150	180	PK	Vertical



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4.9.1.36 11N40_134 ANT 1_ Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity
1	5670.0000	99.51	8.46	68.30	-31.21	150	331	PK	Horizontal
2	5725.0000	60.50	8.57	68.30	7.80	150	317	PK	Horizontal
3	5728.0340	60.61	8.57	68.30	7.69	150	335	PK	Horizontal
4	5749.6048	51.79	8.62	68.30	16.51	150	21	PK	Horizontal

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$

All modes have been tested, but only the worst case data displayed in this report.



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4.10 Frequencies Stability

4.10.1 Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)	
	5180	5320
V nom(V)	5180.000532	5320.002029
V max(V)	5180.010343	5320.004536
V min(V)	5180.019607	5320.012416
Max. Deviation Frequency	0.019607	0.012416
Max. Frequency Error (ppm)	3.785168	2.131464

4.10.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)	
	5180	5320
-5	5180.004142	5320.004835
5	5180.005679	5320.009675
15	5180.012226	5320.010940
25	5180.017184	5320.014226
35	5180.022806	5320.023955
45	5180.029981	5320.030636
50	5180.038799	5320.032501
Max. Deviation Frequency	0.038799	0.032501
Max. Frequency Error (ppm)	7.490083	5.579517



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4.11 Dynamic Frequency Selection

4.11.1 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
<i>Non-Occupancy Period</i>	Yes	Not required	Yes
<i>DFS Detection Threshold</i>	Yes	Not required	Yes
<i>Channel Availability Check Time</i>	Yes	Not required	Not required
<i>U-NII Detection Bandwidth</i>	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
<i>DFS Detection Threshold</i>	Yes	Not required
<i>Channel Closing Transmission Time</i>	Yes	Yes
<i>Channel Move Time</i>	Yes	Yes
<i>U-NII Detection Bandwidth</i>	Yes	Not required
Additional requirements for devices with multiple bandwidth modes	Master Device or Client with Radar Detection	Client Without Radar Detection
<i>U-NII Detection Bandwidth and Statistical Performance Check</i>	All BW modes must be tested	Not required
<i>Channel Move Time and Channel Closing Transmission Time</i>	Test using widest BW mode available	Test using the widest BW mode available for the link
<i>All other tests</i>	Any single BW mode	Not required
<p>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.</p>		



4.11.2 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 \geq 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
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.</p> <p>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.</p> <p>Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

4.11.3 Response Requirements

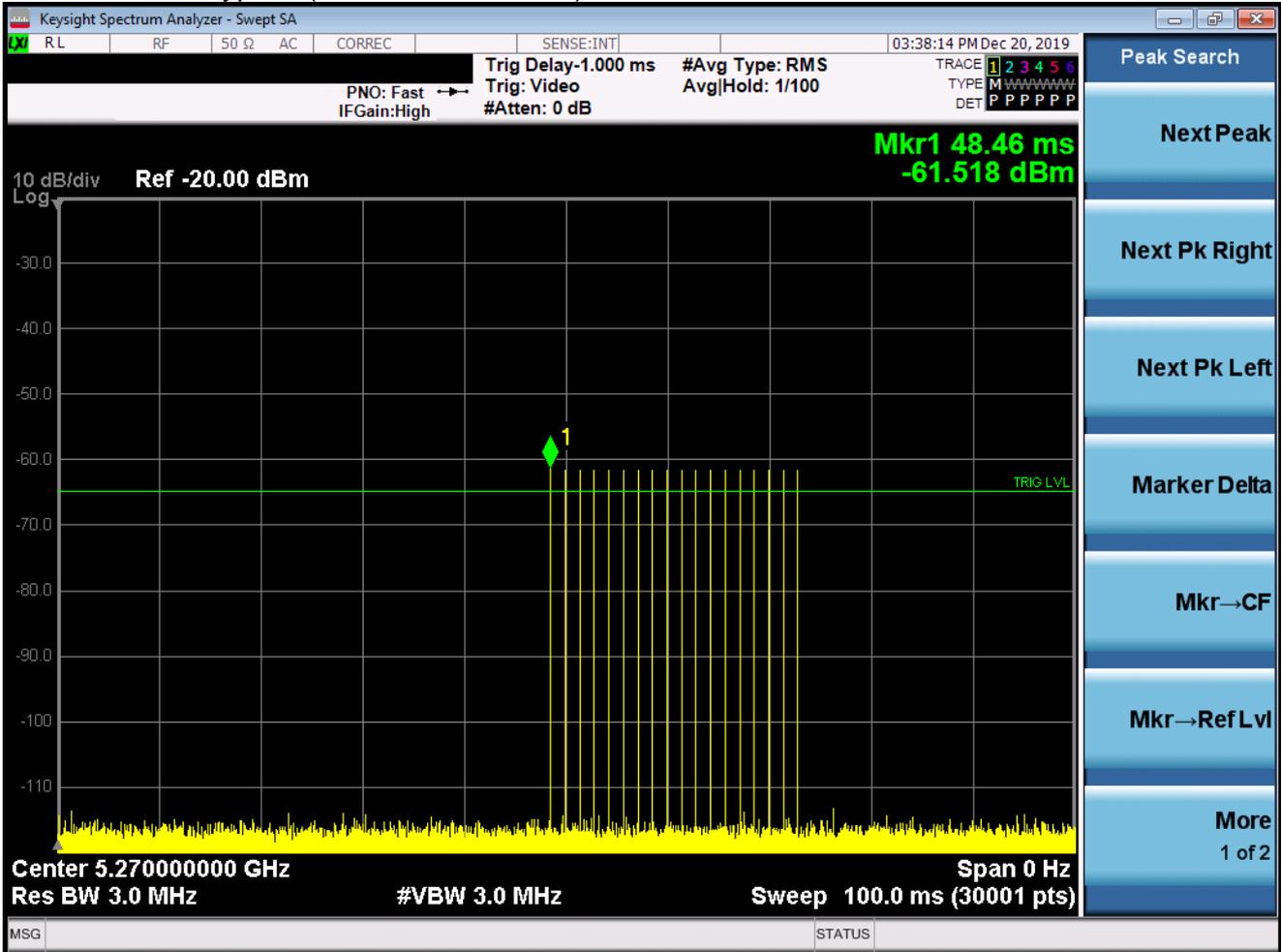
Table 4: DFS Response Requirement Values

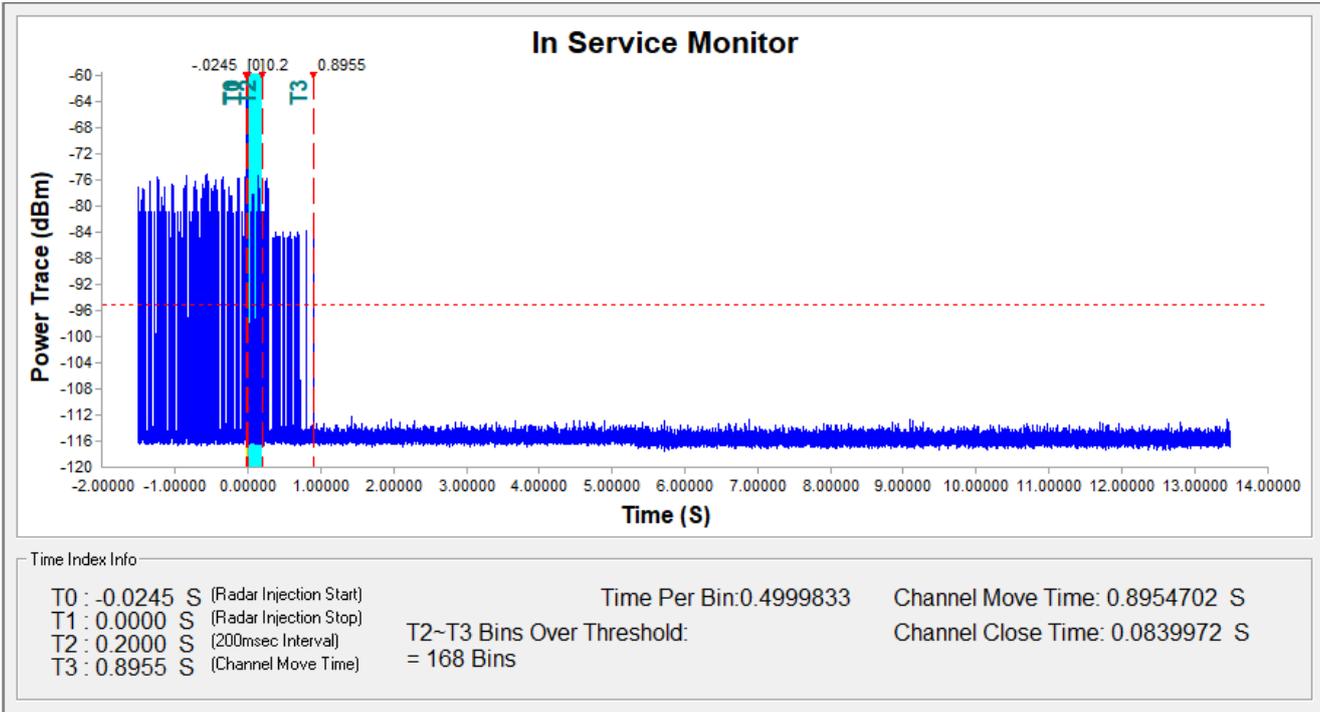
Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and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

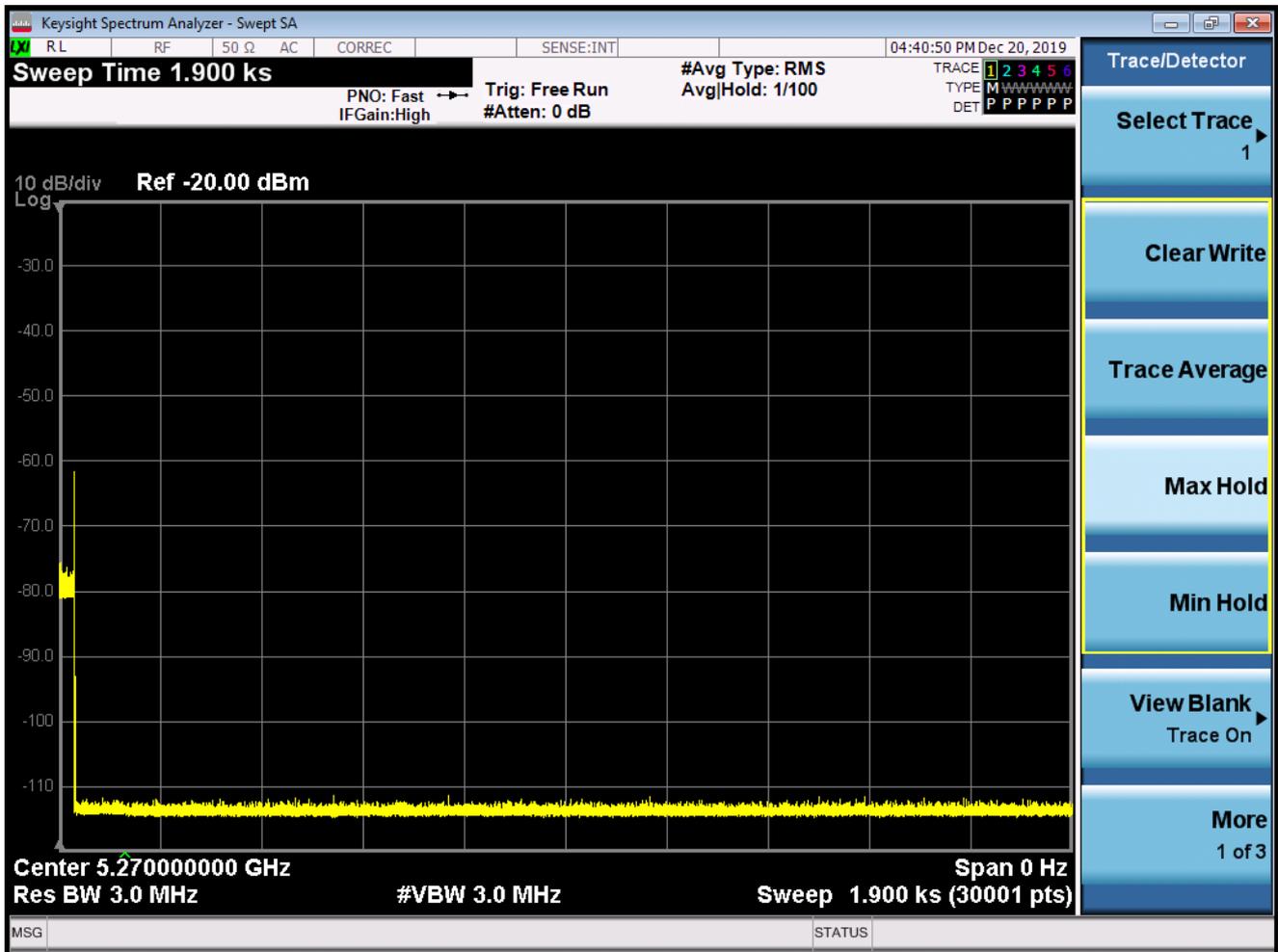




4.11.4 Test plots
4.11.4.1 Radar Waveform Calibration Result
Radar Type 0 (40MHz / 5270MHz)







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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	2017/5/10	2020/5/9
LISN	Rohde & Schwarz	ENV216	SEM007-01	2019/7/14	2020/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2019/3/2	2020/3/1
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2019/6/12	2020/6/11
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2019/2/11	2020/2/10
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2019/2/11	2020/2/10
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2019/3/2	2020/3/1

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	2019/7/14	2020/7/14
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019/7/14	2020/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019/7/14	2020/7/14
Master Device	Linksys pte.Ltd	WRT32X	FCC ID:Q87-WRT3200ACM IC ID:3839A-WRT3200ACM	N/A	N/A

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2019/3/2	2020/3/1
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2019/6/12	2020/6/11
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2019/4/12	2020/4/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2019/6/12	2020/6/11

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	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier(0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/10/20	2020/10/19
Pre-amplifier(26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
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	2019/6/12	2020/6/11



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7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for ZR/2019/A0003.

The End



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