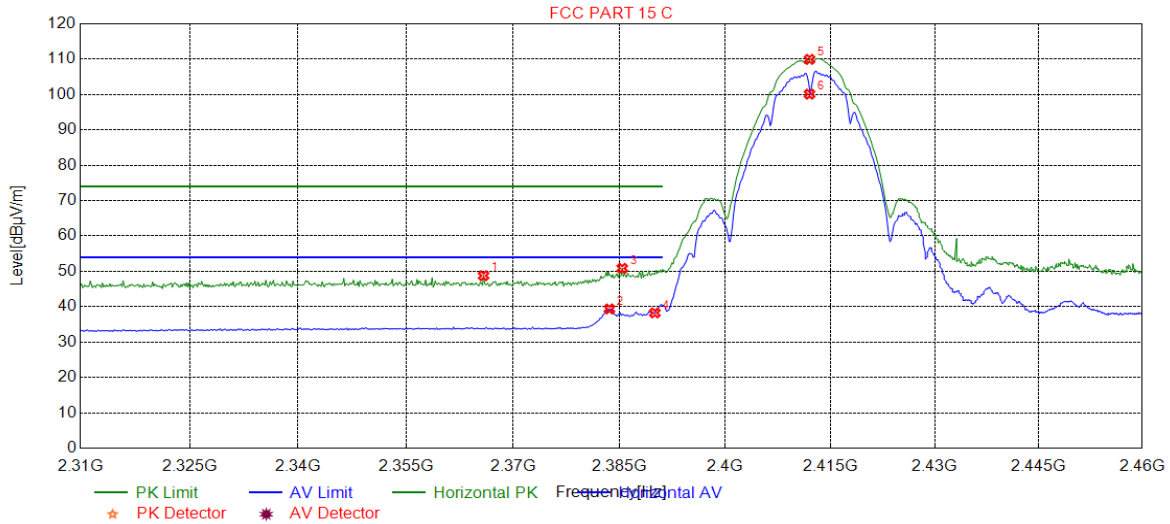


**4.10.1.3 802.11B\_Lowest Channel\_Horizontal**



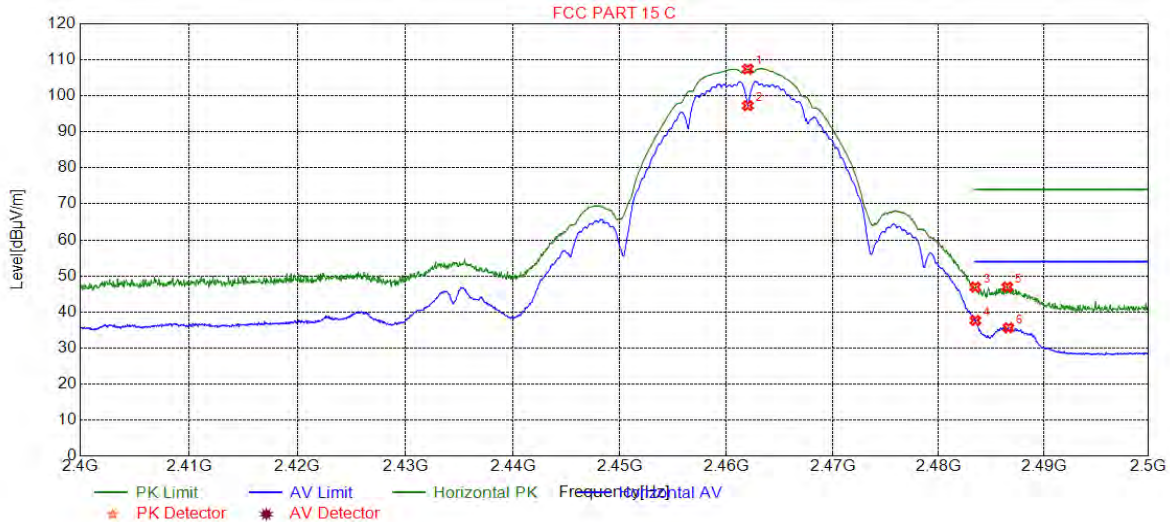
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.8559	48.79	7.79	74.00	25.21	150	296	Horizontal
2	2383.5736	39.38	7.78	54.00	14.62	150	50	Horizontal
3	2385.3754	50.85	7.77	74.00	23.15	150	97	Horizontal
4	2390.0000	38.25	7.77	54.00	15.75	150	204	Horizontal
5	2412.0000	109.94	7.81	0.00	-109.94	150	54	Horizontal
6	2412.0000	100.11	7.81	0.00	-100.11	150	50	Horizontal



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**4.10.1.4 802.11B\_ Highest Channel\_ Horizontal**



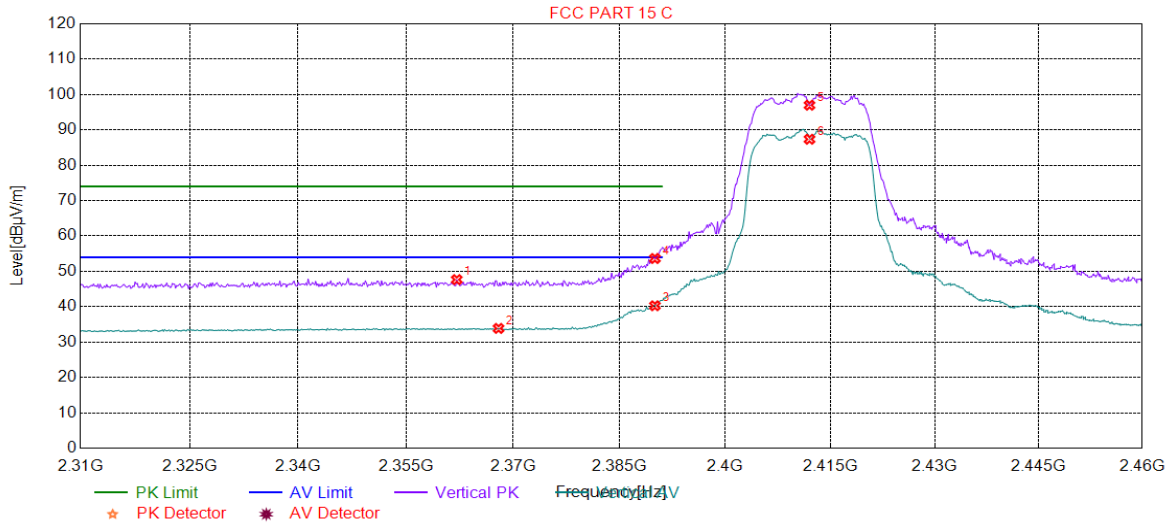
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	107.43	7.98	0.00	-107.43	150	46	Horizontal
2	2462.0000	97.27	7.98	0.00	-97.27	150	46	Horizontal
3	2483.5000	46.92	8.01	74.00	27.08	150	206	Horizontal
4	2483.5000	37.65	8.01	54.00	16.35	150	200	Horizontal
5	2486.5433	46.94	8.01	74.00	27.06	150	206	Horizontal
6	2486.6433	35.59	8.01	54.00	18.41	150	200	Horizontal



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**4.10.1.5 802.11G\_Lowest Channel\_Vertical**



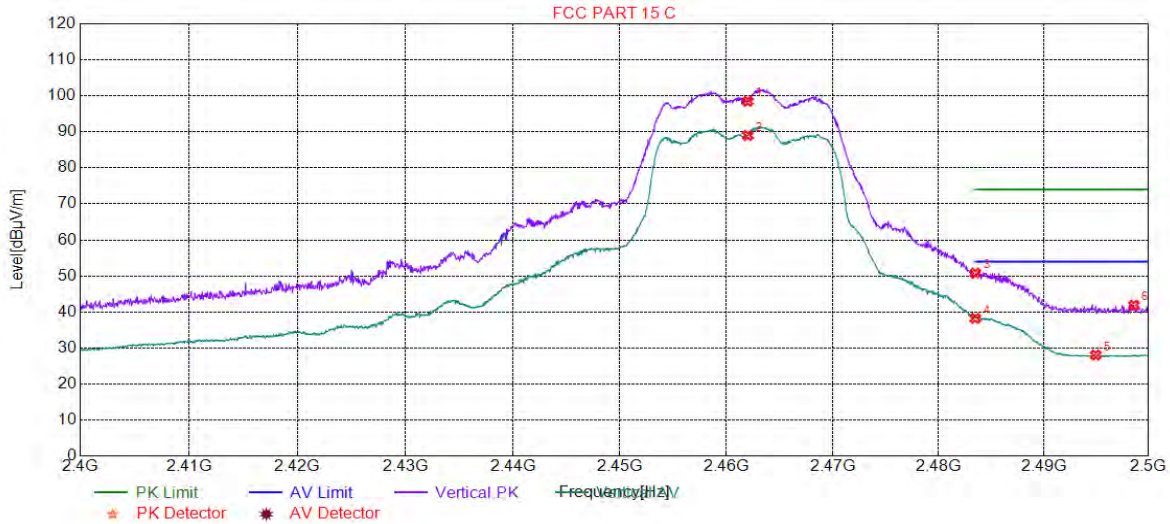
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.1021	47.66	7.80	74.00	26.34	150	346	Vertical
2	2367.9580	33.87	7.79	54.00	20.13	150	176	Vertical
3	2390.0000	40.27	7.77	54.00	13.73	150	73	Vertical
4	2390.0000	53.64	7.77	74.00	20.36	150	69	Vertical
5	2412.0000	96.98	7.81	0.00	-96.98	150	238	Vertical
6	2412.0000	87.36	7.81	0.00	-87.36	150	238	Vertical



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**4.10.1.6 802.11G\_ Highest Channel\_ Vertical**



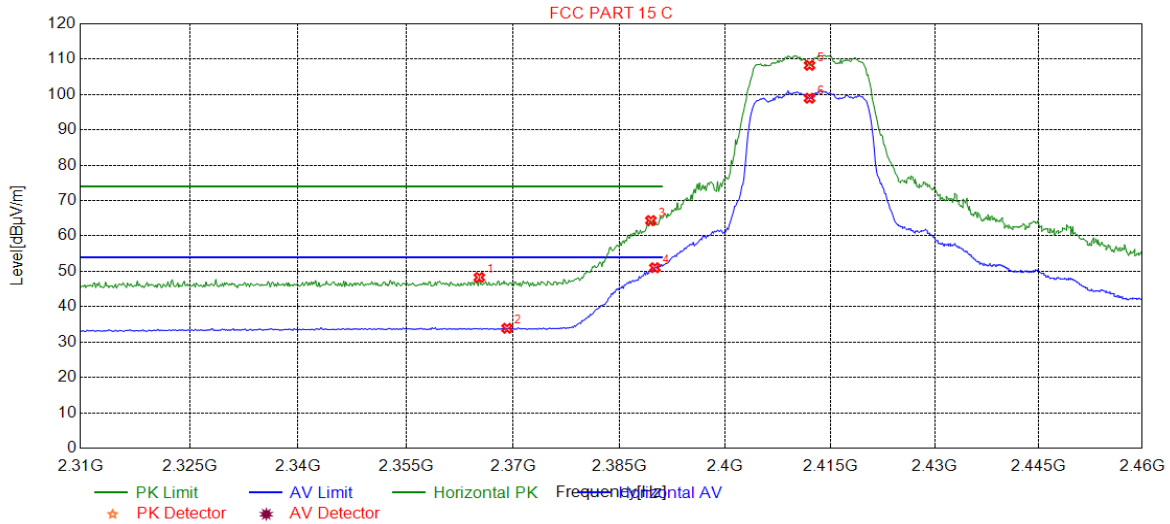
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	98.46	7.98	0.00	-98.46	150	148	Vertical
2	2462.0000	89.00	7.98	0.00	-89.00	150	148	Vertical
3	2483.5000	50.79	8.01	74.00	23.21	150	148	Vertical
4	2483.5000	38.24	8.01	54.00	15.76	150	214	Vertical
5	2494.9475	28.06	8.02	54.00	25.94	150	264	Vertical
6	2498.5993	41.88	8.03	74.00	32.12	150	292	Vertical



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**4.10.1.7 802.11G\_Lowest Channel\_Horizontal**



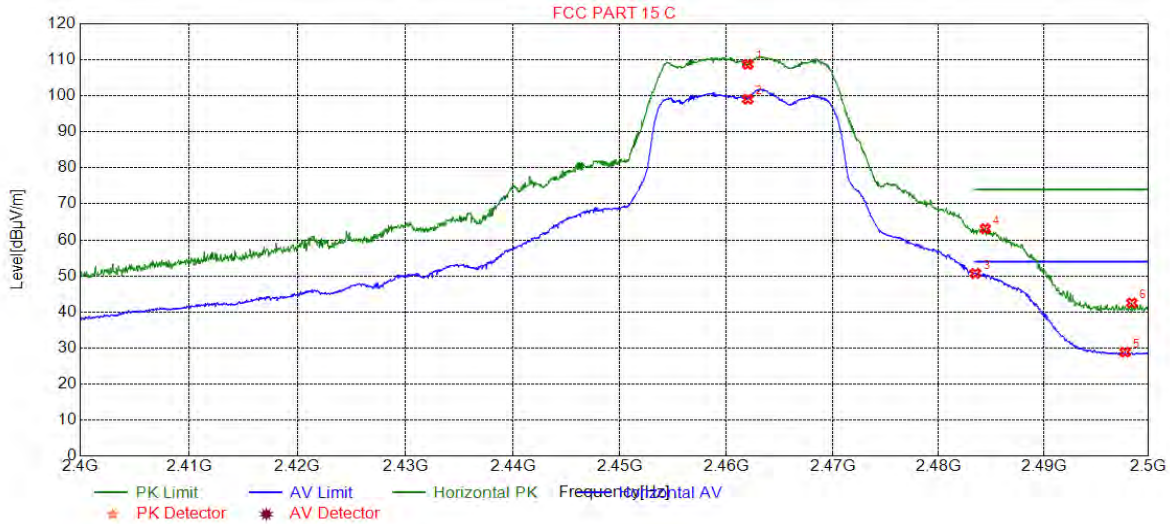
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.2553	48.28	7.79	74.00	25.72	150	210	Horizontal
2	2369.1592	33.91	7.79	54.00	20.09	150	201	Horizontal
3	2389.4294	64.37	7.77	74.00	9.63	150	201	Horizontal
4	2390.0000	50.83	7.77	54.00	3.17	150	201	Horizontal
5	2412.0000	108.25	7.81	0.00	-108.25	150	238	Horizontal
6	2412.0000	98.96	7.81	0.00	-98.96	150	235	Horizontal



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**4.10.1.8 802.11G\_ Highest Channel\_ Horizontal**



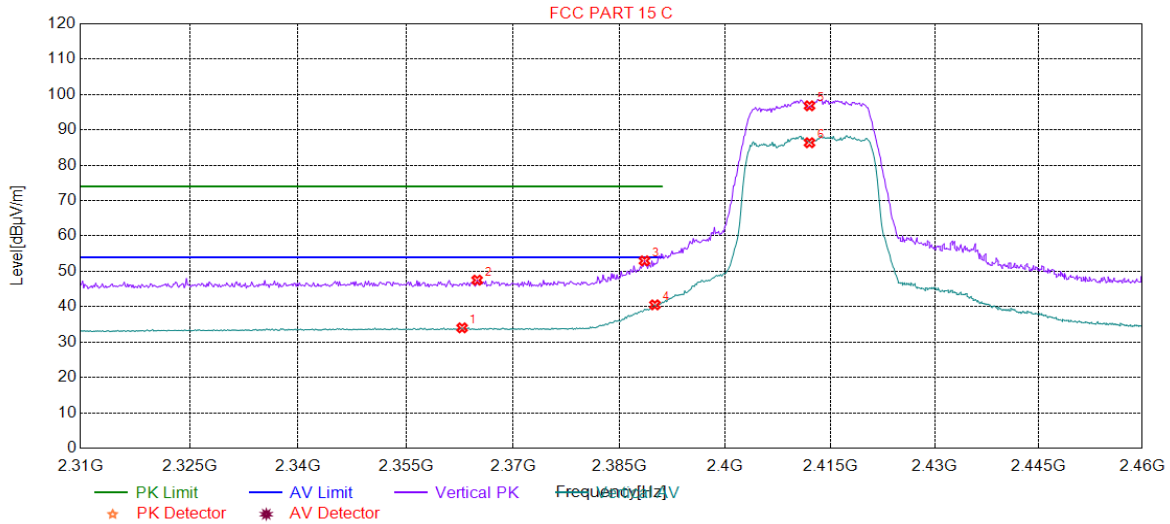
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	108.74	7.98	0.00	-108.74	150	251	Horizontal
2	2462.0000	99.08	7.98	0.00	-99.08	150	251	Horizontal
3	2483.5000	50.70	8.01	54.00	3.30	150	201	Horizontal
4	2484.4422	63.11	8.01	74.00	10.89	150	201	Horizontal
5	2497.7489	28.85	8.03	54.00	25.15	150	201	Horizontal
6	2498.3992	42.50	8.03	74.00	31.50	150	190	Horizontal



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**4.10.1.9 802.11N20\_Lowest Channel\_Vertical**



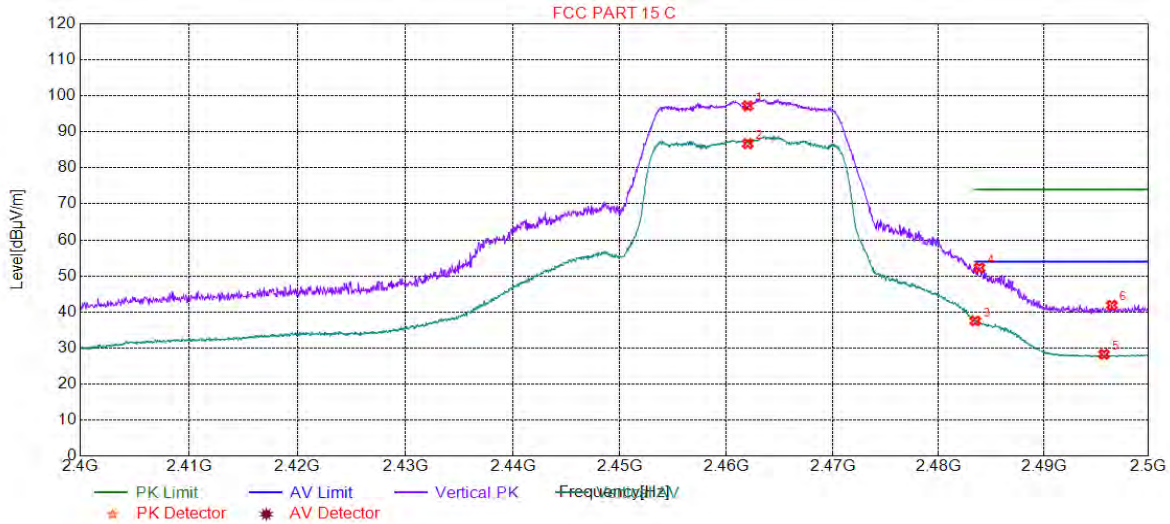
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.8529	34.03	7.80	54.00	19.97	150	62	Vertical
2	2364.9550	47.52	7.80	74.00	26.48	150	342	Vertical
3	2388.5285	52.97	7.77	74.00	21.03	150	257	Vertical
4	2390.0000	40.53	7.77	54.00	13.47	150	265	Vertical
5	2412.0000	96.81	7.81	0.00	-96.81	150	108	Vertical
6	2412.0000	86.37	7.81	0.00	-86.37	150	261	Vertical



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**4.10.1.10 802.11N20\_ Highest Channel\_ Vertical**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	97.19	7.98	0.00	-97.19	150	215	Vertical
2	2462.0000	86.73	7.98	0.00	-86.73	150	215	Vertical
3	2483.5000	37.50	8.01	54.00	16.50	150	243	Vertical
4	2483.8919	52.28	8.01	74.00	21.72	150	259	Vertical
5	2495.7479	28.26	8.02	54.00	25.74	150	346	Vertical
6	2496.4982	41.86	8.03	74.00	32.14	150	237	Vertical

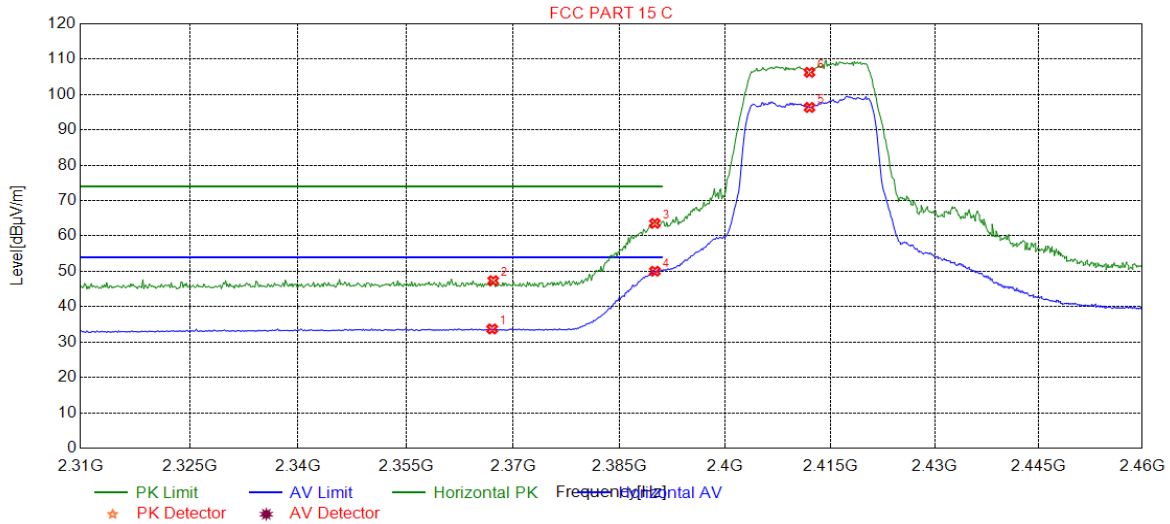


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**4.10.1.11 802.11N20\_Lowest Channel\_Horizontal**



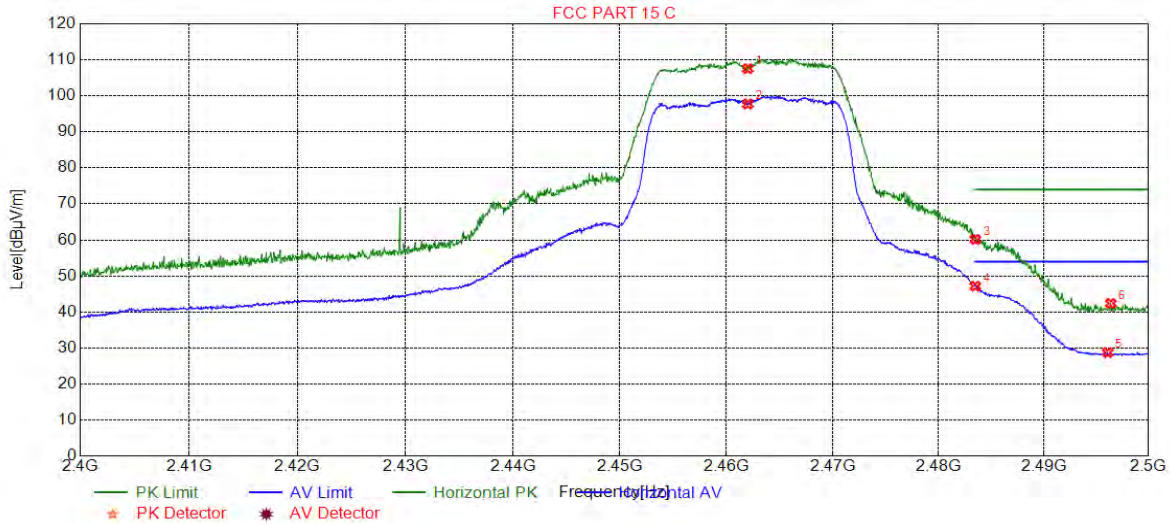
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.0571	33.71	7.79	54.00	20.29	150	268	Horizontal
2	2367.2072	47.37	7.79	74.00	26.63	150	252	Horizontal
3	2390.0000	63.57	7.77	74.00	10.43	150	54	Horizontal
4	2390.0000	50.04	7.77	54.00	3.96	150	54	Horizontal
5	2412.0000	96.34	7.81	0.00	-96.34	150	240	Horizontal
6	2412.0000	106.26	7.81	0.00	-106.26	150	240	Horizontal



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**4.10.1.12 802.11N20\_ Highest Channel\_ Horizontal**



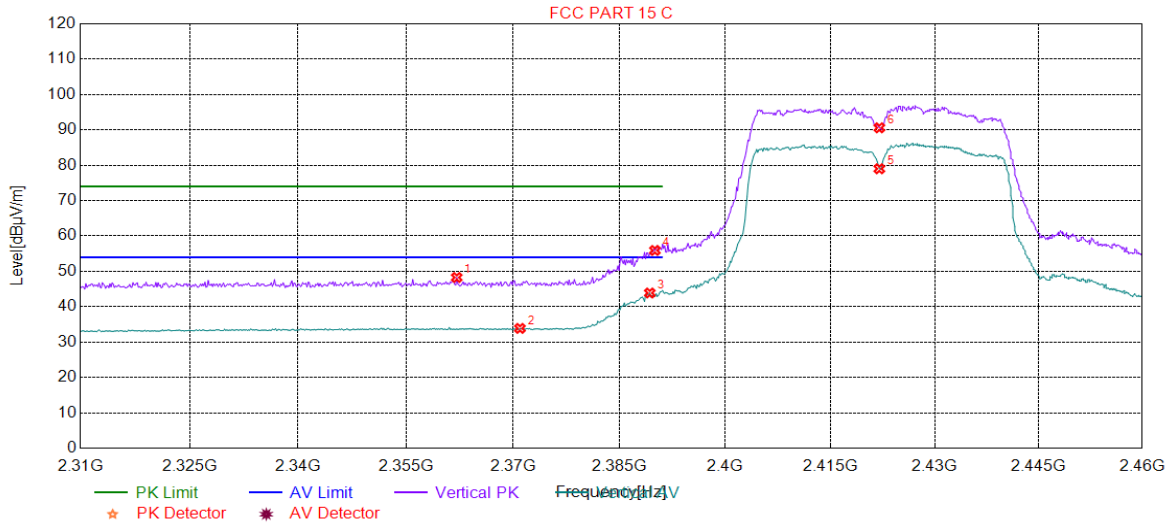
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.0000	107.54	7.98	0.00	-107.54	150	210	Horizontal
2	2462.0000	97.73	7.98	0.00	-97.73	150	232	Horizontal
3	2483.5000	60.15	8.01	74.00	13.85	150	41	Horizontal
4	2483.5000	47.17	8.01	54.00	6.83	150	41	Horizontal
5	2496.0980	28.73	8.03	54.00	25.27	150	199	Horizontal
6	2496.3982	42.37	8.03	74.00	31.63	150	35	Horizontal



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**4.10.1.13 802.11N40\_Lowest Channel\_Vertical**



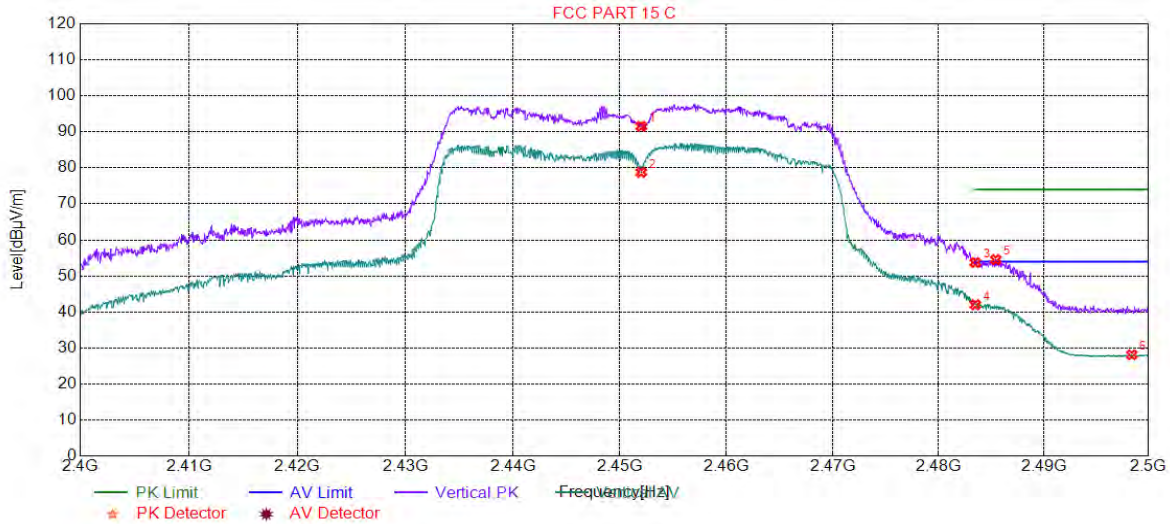
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2362.1021	48.27	7.80	74.00	25.73	150	171	Vertical
2	2370.9610	33.87	7.79	54.00	20.13	150	21	Vertical
3	2389.2793	43.88	7.77	54.00	10.12	150	240	Vertical
4	2390.0000	55.92	7.77	74.00	18.08	150	240	Vertical
5	2422.0000	79.01	7.85	0.00	-79.01	150	95	Vertical
6	2422.0000	90.59	7.85	0.00	-90.59	150	240	Vertical



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**4.10.1.14 802.11N40\_ Highest Channel\_ Vertical**



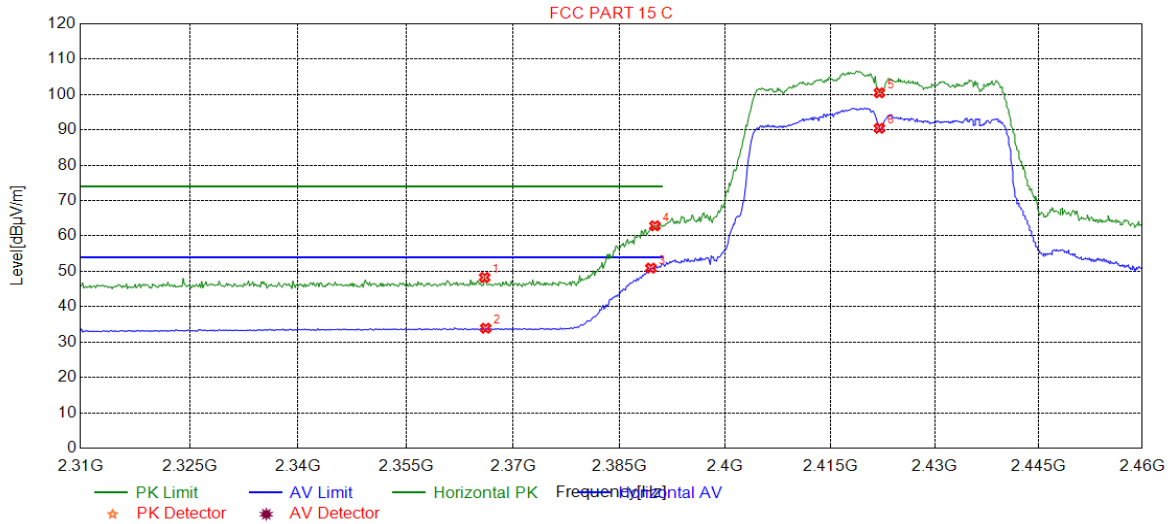
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	91.57	7.97	0.00	-91.57	150	153	Vertical
2	2452.0000	78.78	7.97	0.00	-78.78	150	217	Vertical
3	2483.5000	53.73	8.01	74.00	20.27	150	217	Vertical
4	2483.5000	42.01	8.01	54.00	11.99	150	222	Vertical
5	2485.4427	54.55	8.01	74.00	19.45	150	217	Vertical
6	2498.3992	28.14	8.03	54.00	25.86	150	42	Vertical



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**4.10.1.15 802.11N40\_Lowest Channel\_Horizontal**



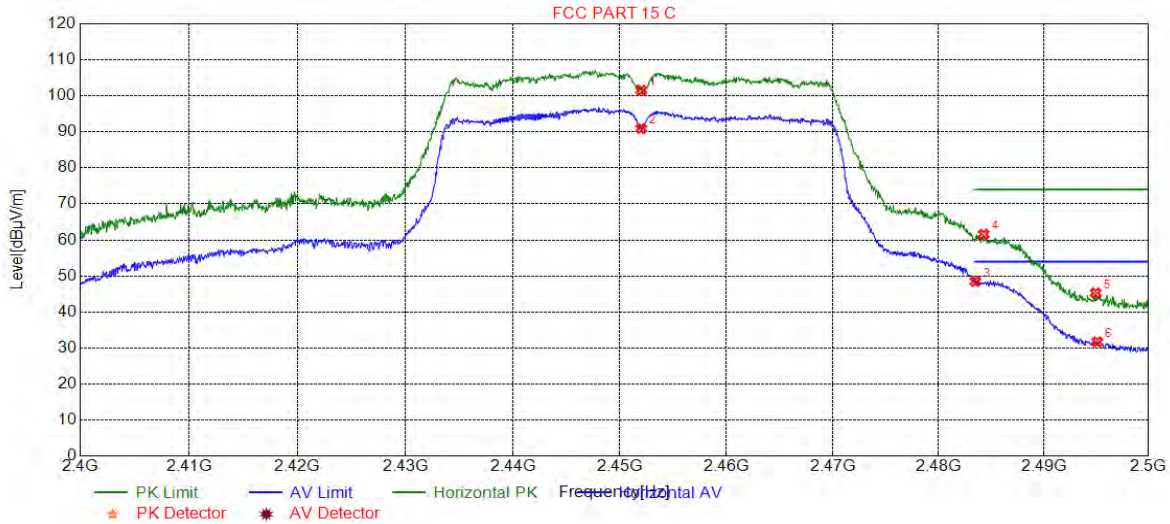
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.0060	48.28	7.79	74.00	25.72	150	128	Horizontal
2	2366.1562	33.93	7.79	54.00	20.07	150	240	Horizontal
3	2389.4294	50.92	7.77	54.00	3.08	150	198	Horizontal
4	2390.0000	62.88	7.77	74.00	11.12	150	202	Horizontal
5	2422.0000	100.49	7.85	0.00	-100.49	150	202	Horizontal
6	2422.0000	90.46	7.85	0.00	-90.46	150	206	Horizontal



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**4.10.1.16 802.11N40\_ Highest Channel\_ Horizontal**



Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.0000	101.54	7.97	0.00	-101.54	150	52	Horizontal
2	2452.0000	90.93	7.97	0.00	-90.93	150	57	Horizontal
3	2483.5000	48.49	8.01	54.00	5.51	150	212	Horizontal
4	2484.2921	61.57	8.01	74.00	12.43	150	212	Horizontal
5	2494.9475	45.27	8.02	74.00	28.73	150	207	Horizontal
6	2495.0975	31.70	8.02	54.00	22.30	150	201	Horizontal

**Remark:**

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

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

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



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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	Cal. Due date
				(yyyy-mm-dd)	(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	2020/4/13	2021/4/12
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
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	2020/3/22	2021/3/21

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2019/7/15	2020/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
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

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/22	2021/3/21
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/9/3	2020/9/2
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020/3/22	2021/3/21
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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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
Wideband Radio Communication Tester	Anristu	MT8821C	6201462742	2020/3/22	2021/3/21
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2020/1/3	2021/1/2
Wideband Radio Communication Tester	Keysight	UXM	K-E7515B 50667	2019/8/20	2020/8/19
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/3	2021/3/2
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/10/22	2020/10/21
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2020/3/22	2022/3/21
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/25	2020/7/24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019/7/25	2020/7/24
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/10/22	2020/10/21
Band filter	N/A	N/A	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
Tunable Notch Filter WRCD1700/2000-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Tunable Notch Filter WRCD800/960-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHK1.2/15G-10SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX10-2700-3000-18000-40SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX7.0/26.5G-6SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 824/849-814/859-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 1850/1910-1835/1925-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/20029.

The End



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