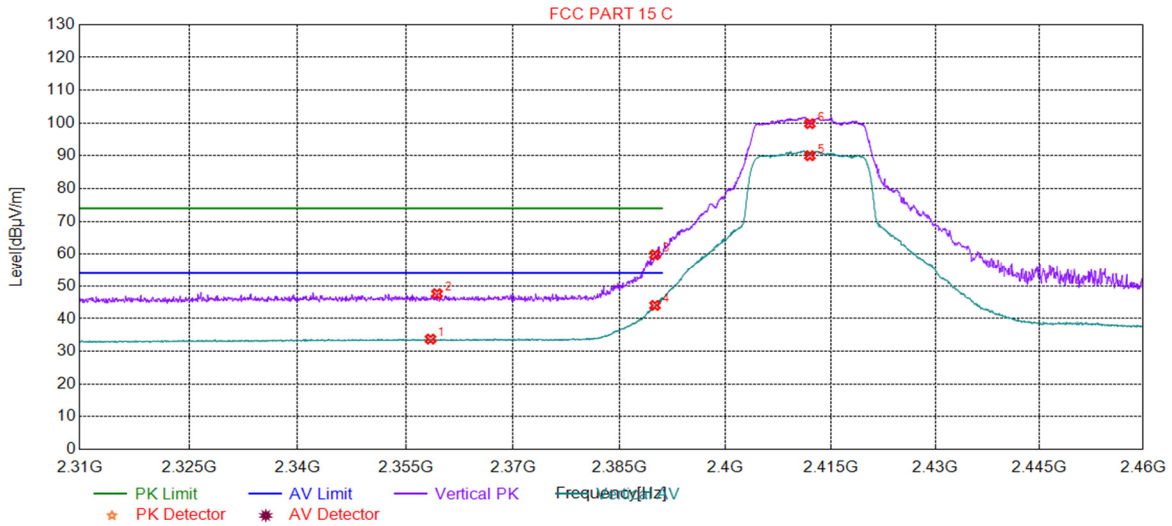


**4.10.1.6 802.11G\_Channel 1**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2358.47	33.76	7.80	54.00	20.24	150	259	Vertical
2	2359.37	47.64	7.80	74.00	26.36	150	276	Vertical
3	2390.00	59.83	7.77	74.00	14.17	150	90	Vertical
4	2390.00	44.06	7.77	54.00	9.94	150	61	Vertical
5	2412.00	90.04	7.81	0.00	-90.04	150	56	Vertical
6	2412.00	99.82	7.81	0.00	-99.82	150	61	Vertical

**Final Data List**

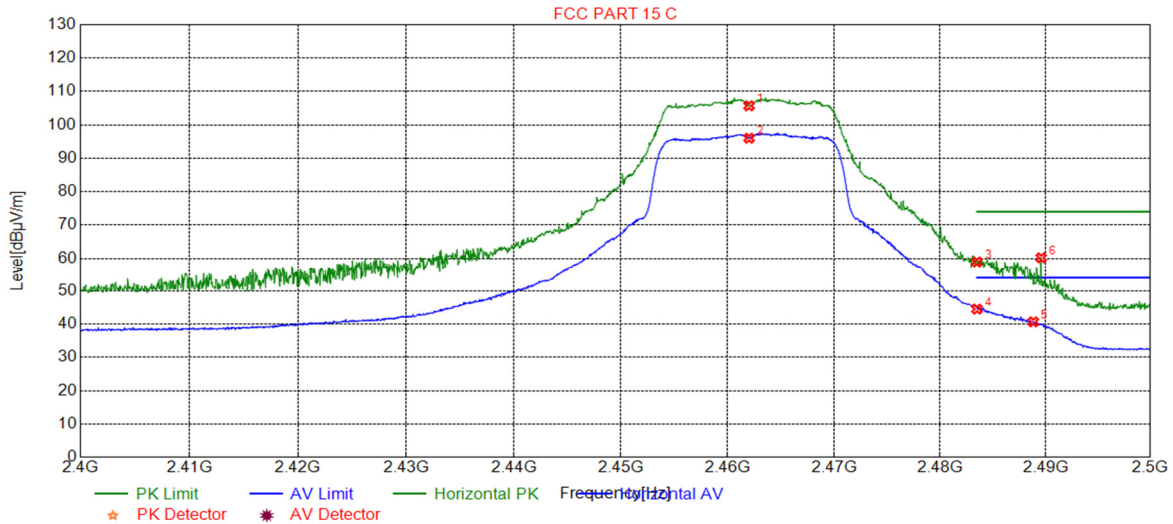


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**4.10.1.7 802.11G\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	105.71	7.98	0.00	-105.71	150	34	Horizontal
2	2462.00	96.01	7.98	0.00	-96.01	150	39	Horizontal
3	2483.50	58.96	8.01	74.00	15.04	150	45	Horizontal
4	2483.50	44.53	8.01	54.00	9.47	150	34	Horizontal
5	2488.84	40.69	8.02	54.00	13.31	150	34	Horizontal
6	2489.59	60.21	8.02	74.00	13.79	150	346	Horizontal

**Final Data List**

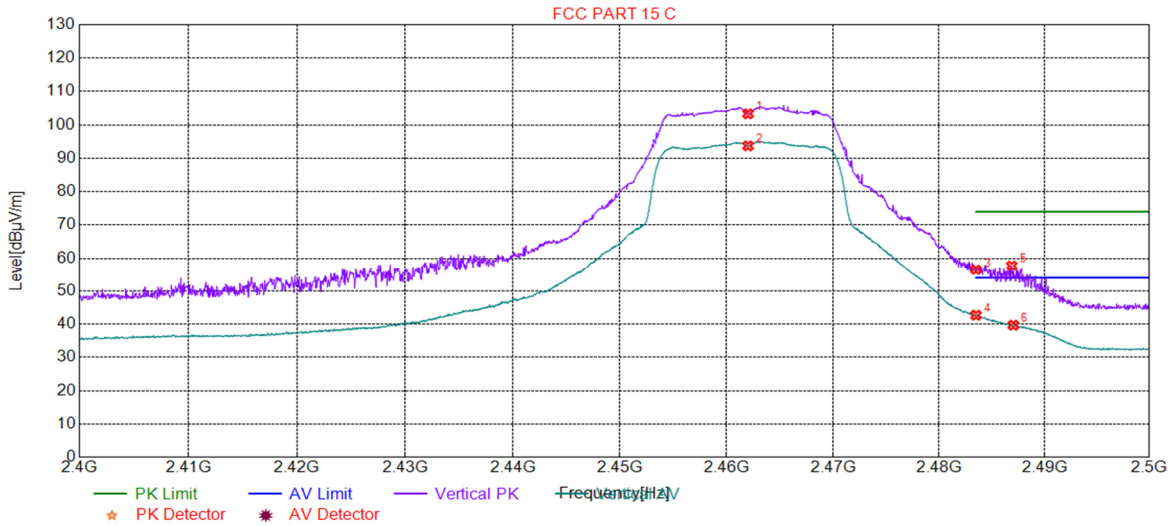


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**4.10.1.8 802.11G\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	103.31	7.98	0.00	-103.31	150	99	Vertical
2	2462.00	93.71	7.98	0.00	-93.71	150	99	Vertical
3	2483.50	56.49	8.01	74.00	17.51	150	88	Vertical
4	2483.50	42.70	8.01	54.00	11.30	150	99	Vertical
5	2486.89	57.75	8.01	74.00	16.25	150	88	Vertical
6	2487.04	39.71	8.01	54.00	14.29	150	105	Vertical

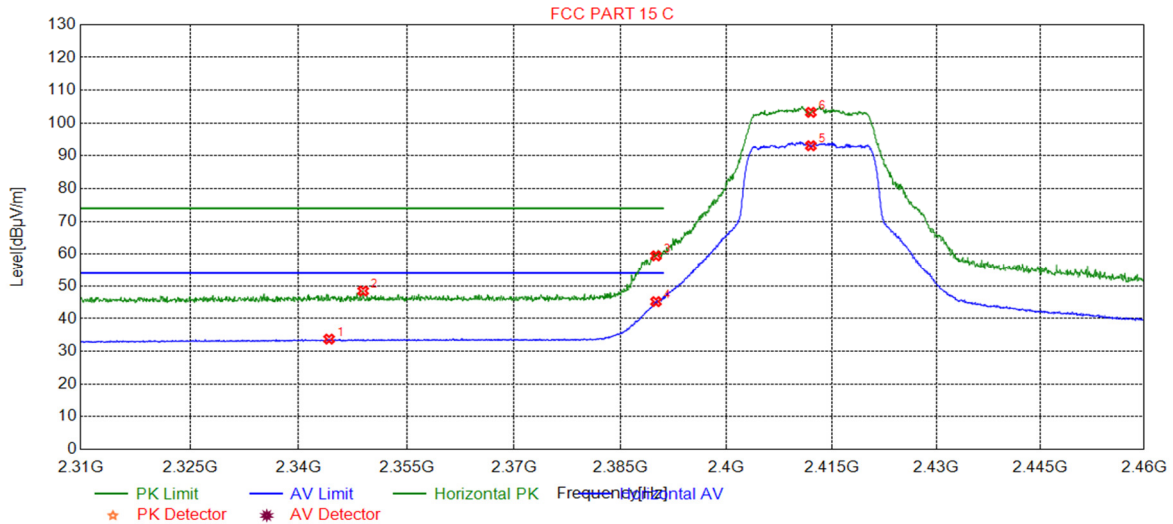
**Final Data List**



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**4.10.1.9 802.11N20\_Channel 1**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2344.21	33.76	7.76	54.00	20.24	150	166	Horizontal
2	2348.94	48.48	7.80	74.00	25.52	150	50	Horizontal
3	2390.00	59.51	7.77	74.00	14.49	150	55	Horizontal
4	2390.00	45.22	7.77	54.00	8.78	150	50	Horizontal
5	2412.00	93.08	7.81	0.00	-93.08	150	50	Horizontal
6	2412.00	103.27	7.81	0.00	-103.27	150	44	Horizontal

**Final Data List**



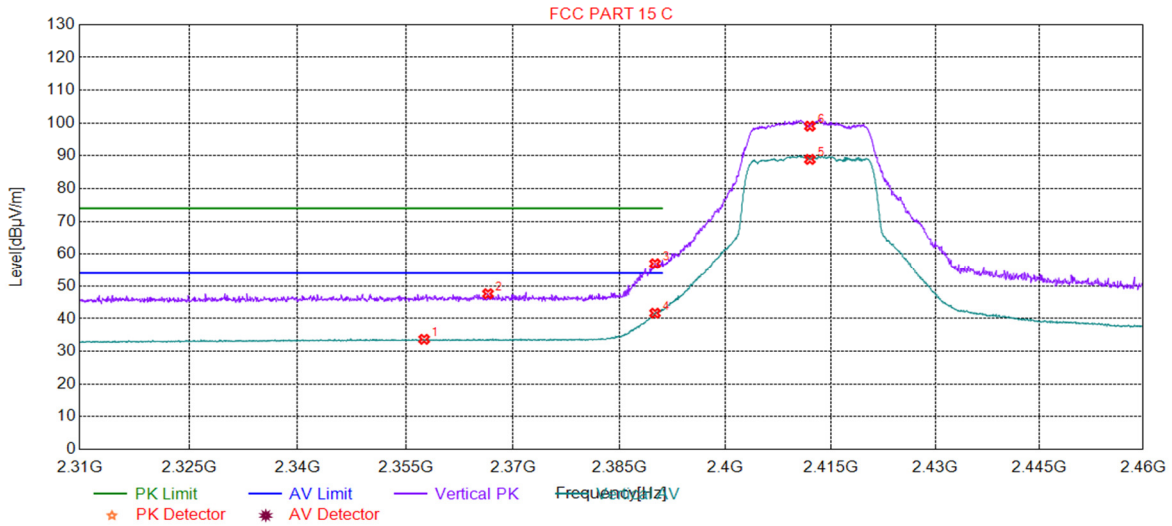
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**4.10.1.10 802.11N20\_Channel 1**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2357.57	33.69	7.80	54.00	20.31	150	248	Vertical
2	2366.50	47.64	7.79	74.00	26.36	150	14	Vertical
3	2390.00	57.08	7.77	74.00	16.92	150	68	Vertical
4	2390.00	41.69	7.77	54.00	12.31	150	78	Vertical
5	2412.00	88.91	7.81	0.00	-88.91	150	73	Vertical
6	2412.00	99.06	7.81	0.00	-99.06	150	73	Vertical

**Final Data List**

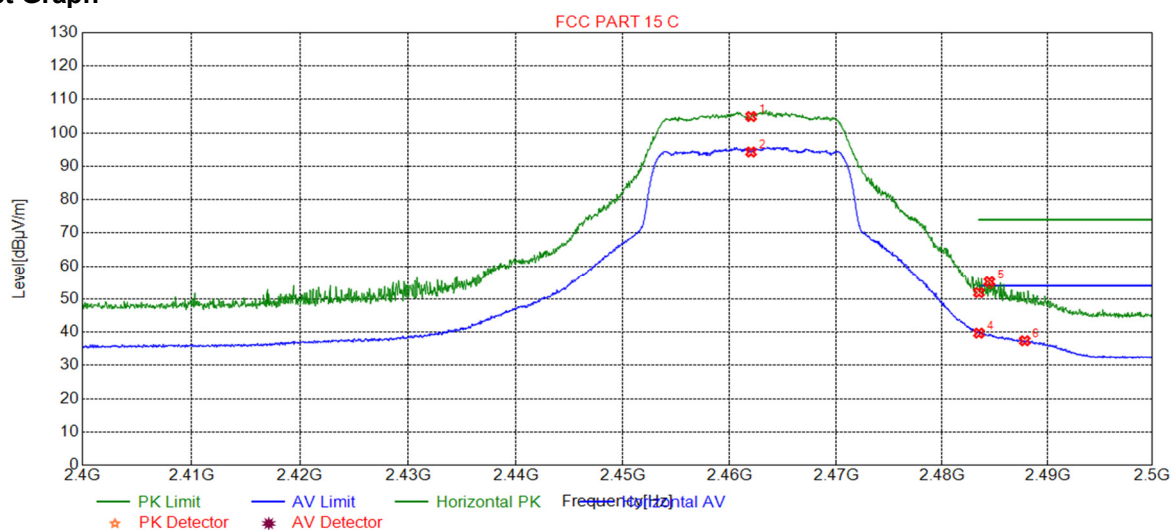


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**4.10.1.11 802.11N20\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	104.90	7.98	0.00	-104.90	150	46	Horizontal
2	2462.00	94.27	7.98	0.00	-94.27	150	52	Horizontal
3	2483.50	51.91	8.01	74.00	22.09	150	52	Horizontal
4	2483.50	39.71	8.01	54.00	14.29	150	35	Horizontal
5	2484.49	55.24	8.01	74.00	18.76	150	30	Horizontal
6	2487.84	37.41	8.02	54.00	16.59	150	52	Horizontal

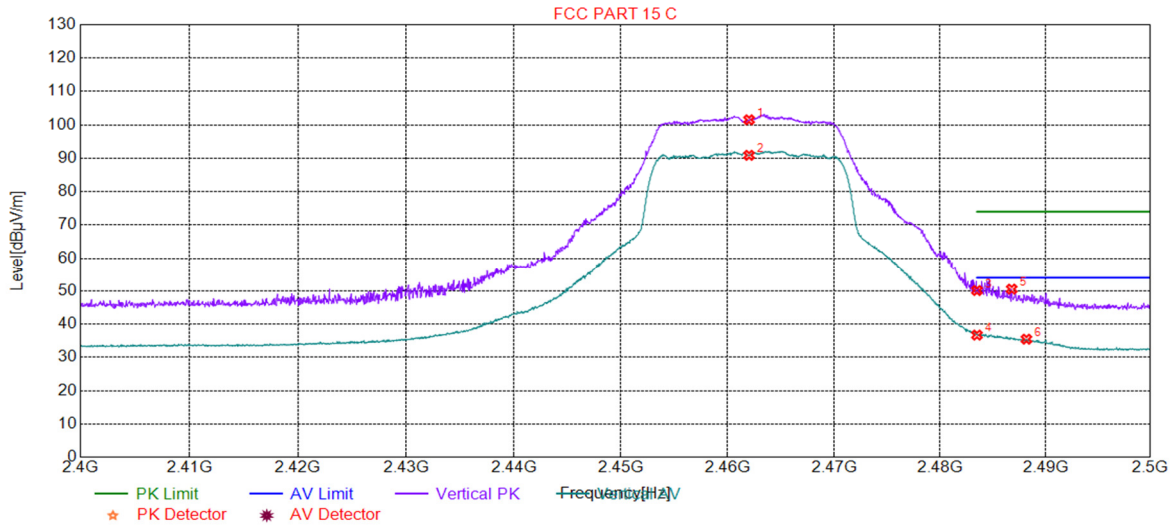
**Final Data List**



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**4.10.1.12 802.11N20\_Channel 11**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2462.00	101.52	7.98	0.00	-101.52	150	95	Vertical
2	2462.00	90.90	7.98	0.00	-90.90	150	90	Vertical
3	2483.50	50.11	8.01	74.00	23.89	150	206	Vertical
4	2483.50	36.72	8.01	54.00	17.28	150	84	Vertical
5	2486.79	50.55	8.01	74.00	23.45	150	106	Vertical
6	2488.19	35.50	8.02	54.00	18.50	150	90	Vertical

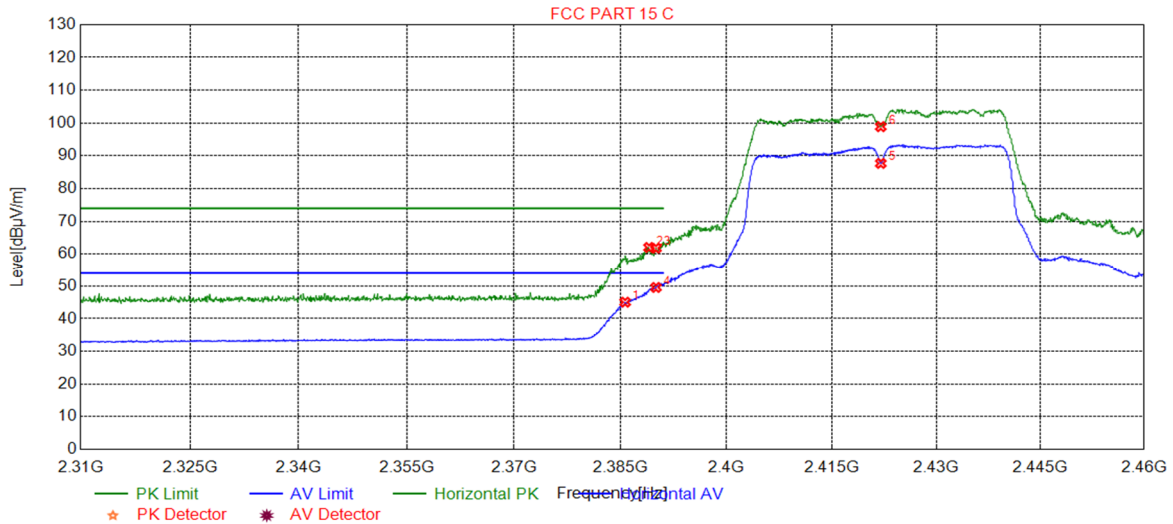
**Final Data List**



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**4.10.1.13 802.11N40\_Channel 3**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.63	45.05	7.77	54.00	8.95	150	51	Horizontal
2	2389.01	62.07	7.77	74.00	11.93	150	51	Horizontal
3	2390.00	61.84	7.77	74.00	12.16	150	56	Horizontal
4	2390.00	49.57	7.77	54.00	4.43	150	51	Horizontal
5	2422.00	87.71	7.85	0.00	-87.71	150	51	Horizontal
6	2422.00	98.90	7.85	0.00	-98.90	150	51	Horizontal

**Final Data List**



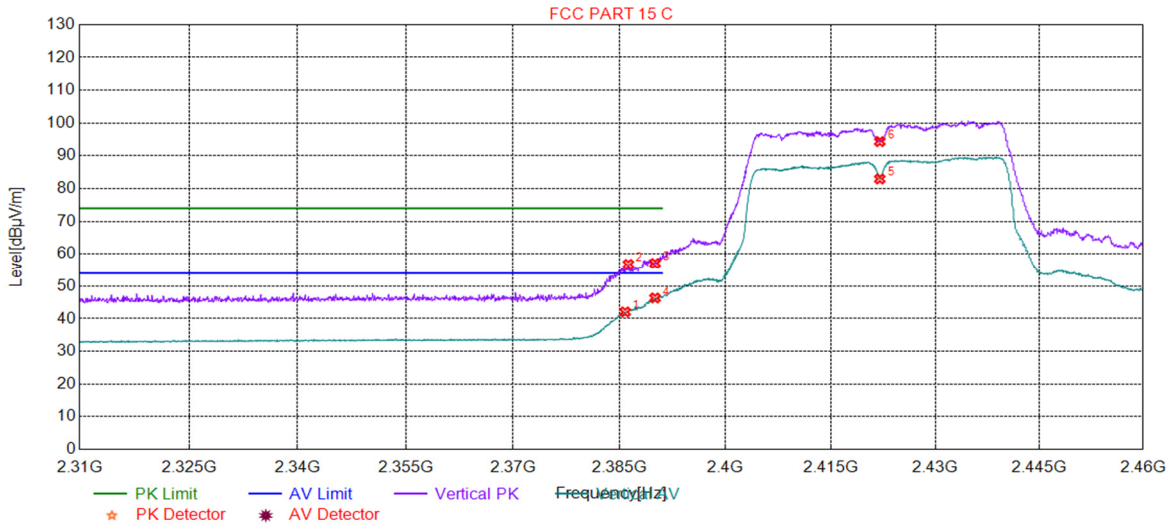
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**4.10.1.14 802.11N40\_Channel 3**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.78	42.07	7.77	54.00	11.93	150	99	Vertical
2	2386.23	56.86	7.77	74.00	17.14	150	88	Vertical
3	2390.00	57.13	7.77	74.00	16.87	150	83	Vertical
4	2390.00	46.35	7.77	54.00	7.65	150	77	Vertical
5	2422.00	82.96	7.85	0.00	-82.96	150	72	Vertical
6	2422.00	94.36	7.85	0.00	-94.36	150	77	Vertical

**Final Data List**



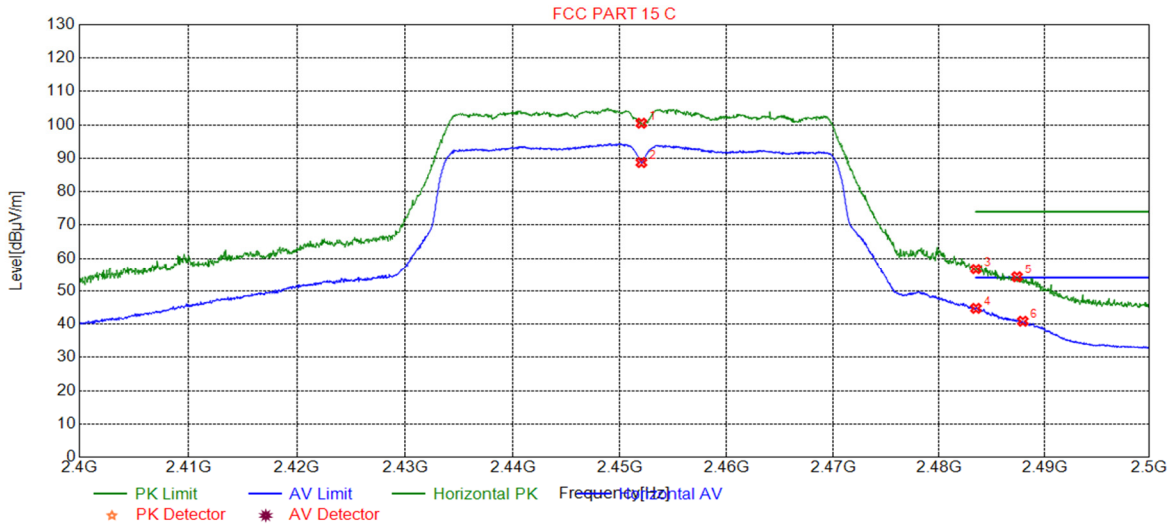
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**4.10.1.15 802.11N40\_Channel 9**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	100.51	7.97	0.00	-100.51	150	55	Horizontal
2	2452.00	88.73	7.97	0.00	-88.73	150	49	Horizontal
3	2483.50	56.69	8.01	74.00	17.31	150	55	Horizontal
4	2483.50	44.75	8.01	54.00	9.25	150	49	Horizontal
5	2487.39	54.25	8.01	74.00	19.75	150	49	Horizontal
6	2487.94	40.89	8.02	54.00	13.11	150	55	Horizontal

**Final Data List**

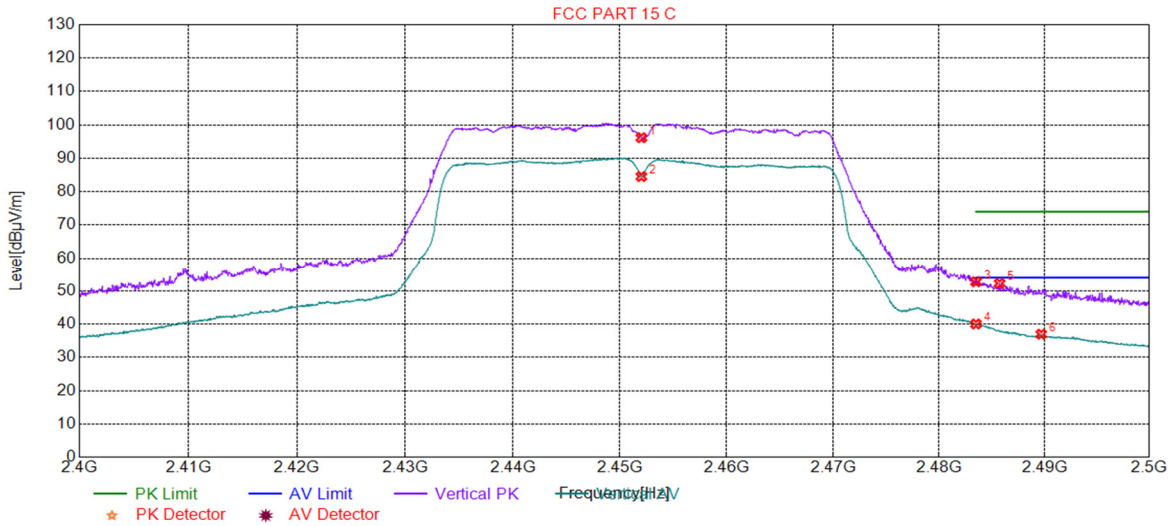


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**4.10.1.16 802.11N40\_Channel 9**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2452.00	96.17	7.97	0.00	-96.17	150	84	Vertical
2	2452.00	84.55	7.97	0.00	-84.55	150	90	Vertical
3	2483.50	52.75	8.01	74.00	21.25	150	112	Vertical
4	2483.50	40.06	8.01	54.00	13.94	150	95	Vertical
5	2485.74	52.25	8.01	74.00	21.75	150	106	Vertical
6	2489.69	37.00	8.02	54.00	17.00	150	358	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.



## 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. Duedate
				(yyyy-mm-dd)	(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	2023/7/14
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2020/4/1	2021/3/31
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
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	Cal. Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2
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	2019/10/27	2020/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14



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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	2020/6/12	2021/6/11
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2020/3/12	2021/3/11
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2020/6/27	2023/6/26
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	2020/7/14	2021/7/14
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	2020/3/2	2021/3/1
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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	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



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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)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2020/3/2	2021/3/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2020/3/15	2022/3/14
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2020/3/12	2021/3/11
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2020/8/21	2023/8/20
				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	2020/6/12	2021/6/11

## 7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/80017.

The End



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