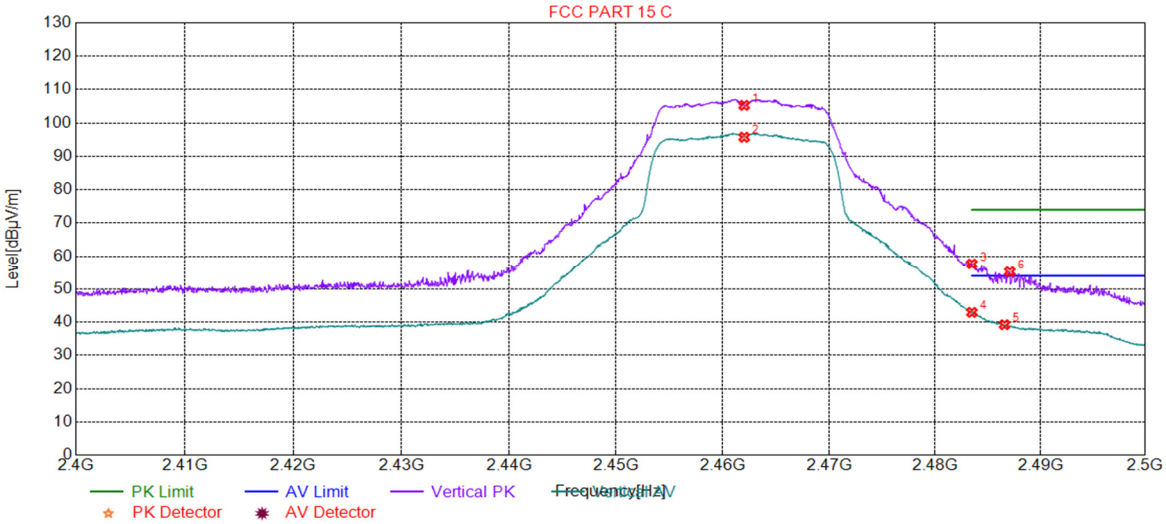
4.10.1.8 802.11G_Channel 11

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	105.30	7.98	0.00	-105.30	150	120	Vertical
2	2462.00	95.73	7.98	0.00	-95.73	150	120	Vertical
3	2483.50	57.69	8.01	74.00	16.31	150	97	Vertical
4	2483.50	42.95	8.01	54.00	11.05	150	125	Vertical
5	2486.59	39.24	8.01	54.00	14.76	150	92	Vertical
6	2487.09	55.25	8.01	74.00	18.75	150	130	Vertical

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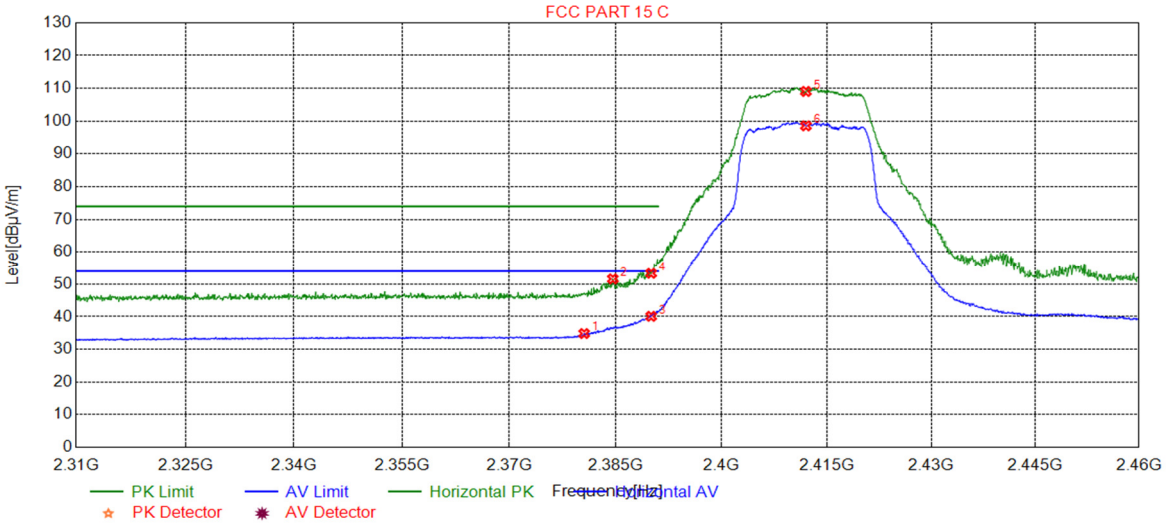
4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.53	34.84	7.78	54.00	19.16	150	193	Horizontal
2	2384.58	51.59	7.78	74.00	22.41	150	187	Horizontal
3	2390.00	40.11	7.77	54.00	13.89	150	187	Horizontal
4	2390.00	53.31	7.77	74.00	20.69	150	68	Horizontal
5	2412.00	109.07	7.81	0.00	-109.07	150	182	Horizontal
6	2412.00	98.58	7.81	0.00	-98.58	150	182	Horizontal

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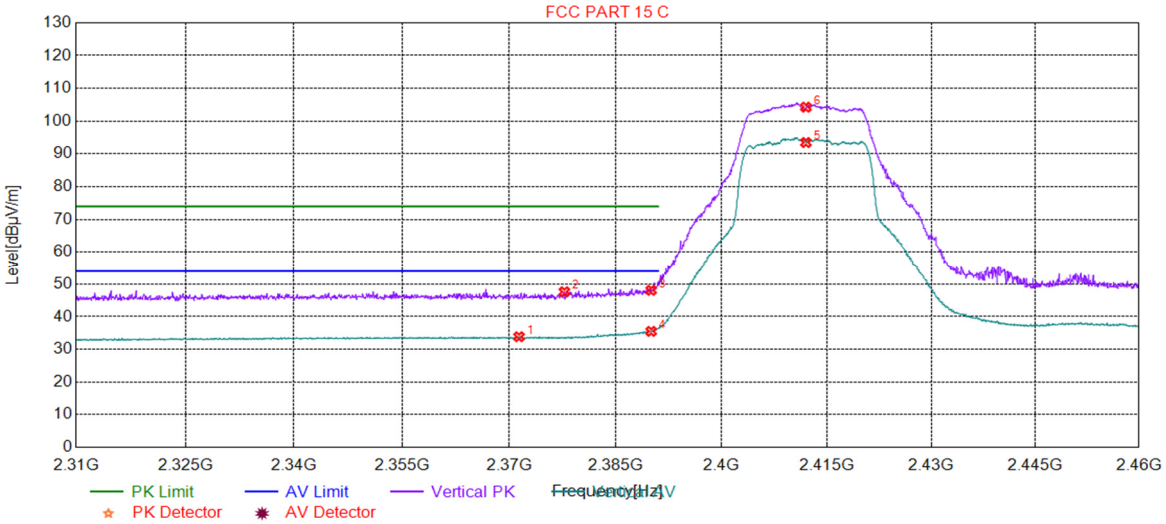
4.10.1.10 802.11N20_Channel 1

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.38	33.87	7.79	54.00	20.13	150	149	Vertical
2	2377.75	47.64	7.78	74.00	26.36	150	226	Vertical
3	2390.00	48.08	7.77	74.00	25.92	150	68	Vertical
4	2390.00	35.52	7.77	54.00	18.48	150	128	Vertical
5	2412.00	93.49	7.81	0.00	-93.49	150	118	Vertical
6	2412.00	104.27	7.81	0.00	-104.27	150	118	Vertical

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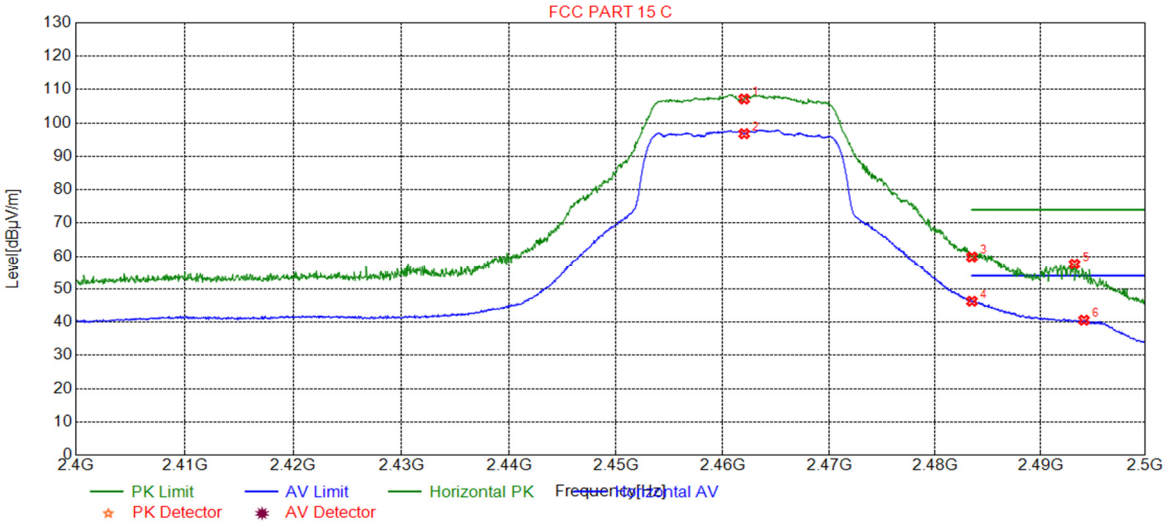
4.10.1.11 802.11N20_Channel 11

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	107.19	7.98	0.00	-107.19	150	172	Horizontal
2	2462.00	96.79	7.98	0.00	-96.79	150	178	Horizontal
3	2483.50	59.86	8.01	74.00	14.14	150	183	Horizontal
4	2483.50	46.29	8.01	54.00	7.71	150	183	Horizontal
5	2493.24	57.67	8.02	74.00	16.33	150	194	Horizontal
6	2494.14	40.60	8.02	54.00	13.40	150	188	Horizontal

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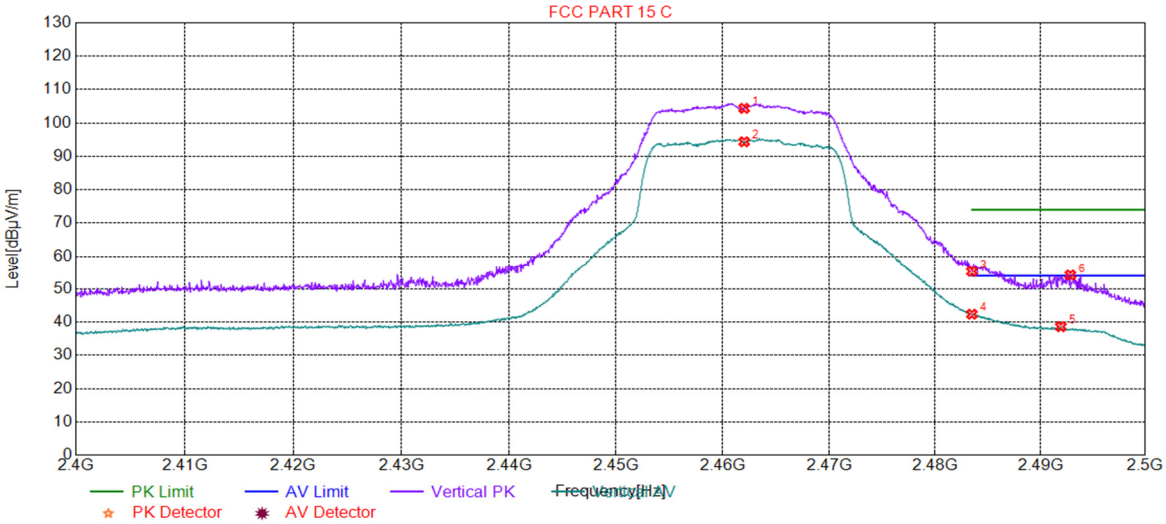
4.10.1.12 802.11N20_Channel 11

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	104.39	7.98	0.00	-104.39	150	106	Vertical
2	2462.00	94.38	7.98	0.00	-94.38	150	106	Vertical
3	2483.50	55.29	8.01	74.00	18.71	150	112	Vertical
4	2483.50	42.40	8.01	54.00	11.60	150	85	Vertical
5	2491.94	38.65	8.02	54.00	15.35	150	79	Vertical
6	2492.84	54.20	8.02	74.00	19.80	150	85	Vertical

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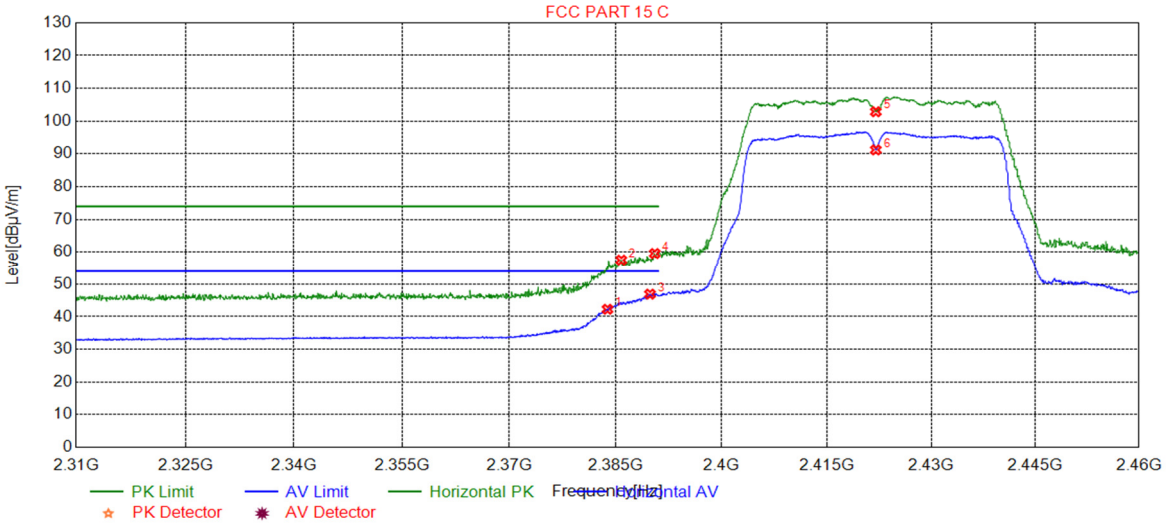
4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2383.83	42.27	7.78	54.00	11.73	150	178	Horizontal
2	2385.78	57.57	7.77	74.00	16.43	150	79	Horizontal
3	2389.83	46.91	7.77	54.00	7.09	150	178	Horizontal
4	2390.51	59.61	7.77	74.00	14.39	150	173	Horizontal
5	2422.00	102.88	7.85	0.00	-102.88	150	195	Horizontal
6	2422.00	91.23	7.85	0.00	-91.23	150	173	Horizontal

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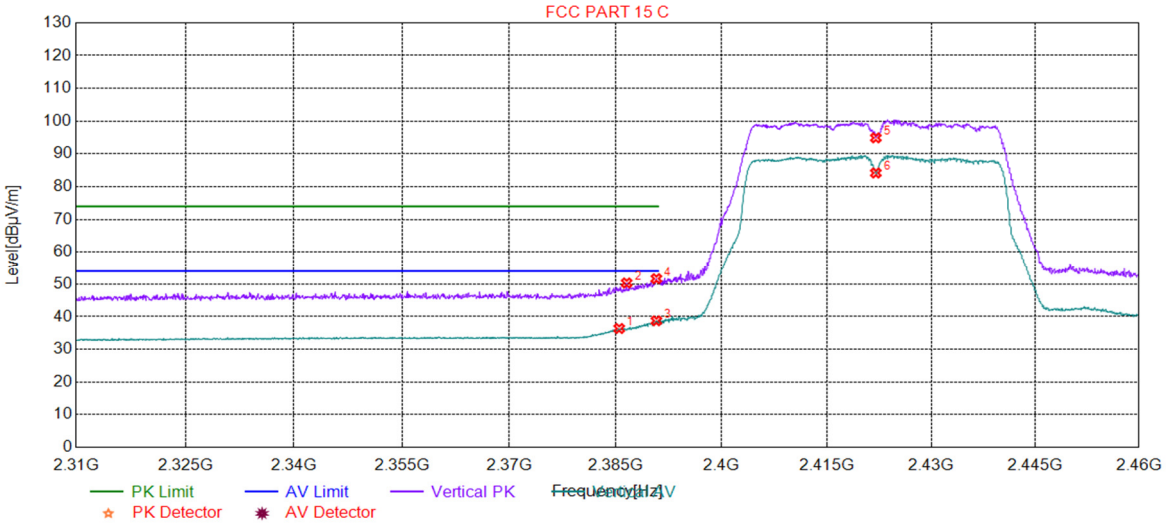
4.10.1.14 802.11N40_Channel 3

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.48	36.38	7.77	54.00	17.62	150	149	Vertical
2	2386.53	50.33	7.77	74.00	23.67	150	144	Vertical
3	2390.74	38.75	7.77	54.00	15.25	150	149	Vertical
4	2390.74	51.65	7.77	74.00	22.35	150	149	Vertical
5	2422.00	94.91	7.85	0.00	-94.91	150	149	Vertical
6	2422.00	84.20	7.85	0.00	-84.20	150	144	Vertical

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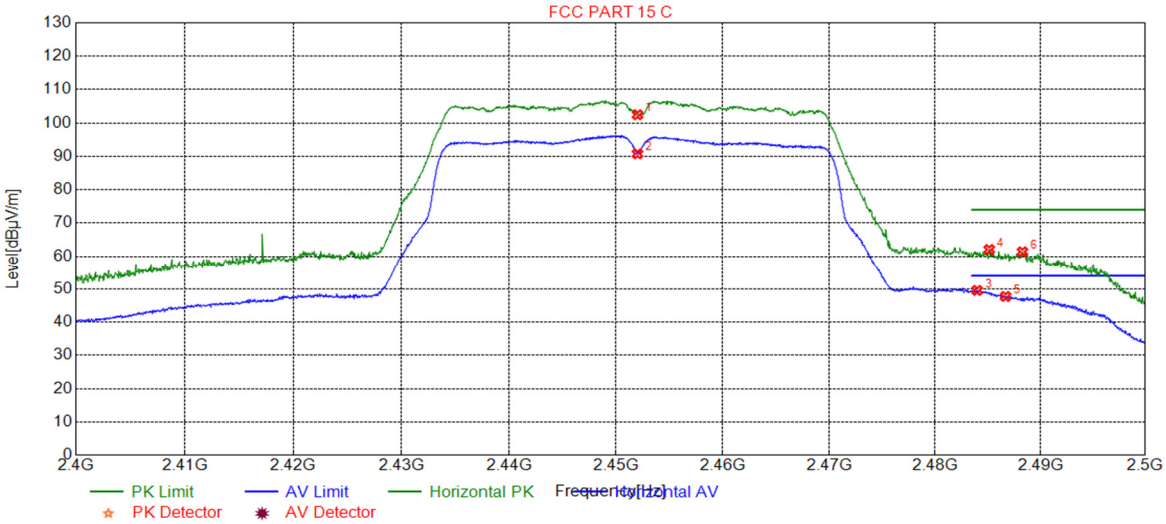
4.10.1.15 802.11N40_Channel 9

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	102.47	7.97	0.00	-102.47	150	188	Horizontal
2	2452.00	90.75	7.97	0.00	-90.75	150	67	Horizontal
3	2483.99	49.55	8.01	54.00	4.45	150	73	Horizontal
4	2485.14	62.11	8.01	74.00	11.89	150	84	Horizontal
5	2486.69	47.74	8.01	54.00	6.26	150	182	Horizontal
6	2488.29	61.42	8.02	74.00	12.58	150	182	Horizontal

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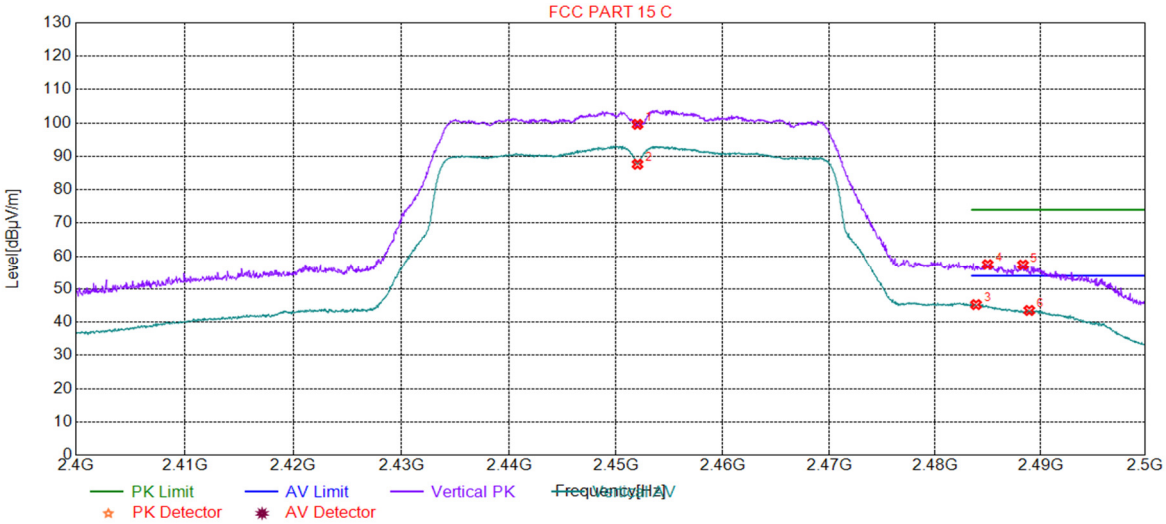
4.10.1.16 802.11N40_Channel 9

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	99.59	7.97	0.00	-99.59	150	94	Vertical
2	2452.00	87.64	7.97	0.00	-87.64	150	106	Vertical
3	2483.89	45.28	8.01	54.00	8.72	150	106	Vertical
4	2484.99	57.52	8.01	74.00	16.48	150	117	Vertical
5	2488.34	57.41	8.02	74.00	16.59	150	100	Vertical
6	2488.94	43.52	8.02	54.00	10.48	150	94	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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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℃
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.Duedate (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 (yyyy-mm-dd)	Cal.Duedate (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 (yyyy-mm-dd)	Cal.Due date (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 (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

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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/2020/70008.

The End

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