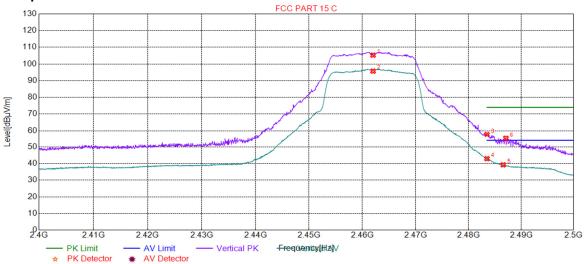
Report No.: ZR/2020/7000802

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802.11G_Channel 11 4.10.1.8

Test Graph



Suspected List

Susp	ected 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		

Final Data List



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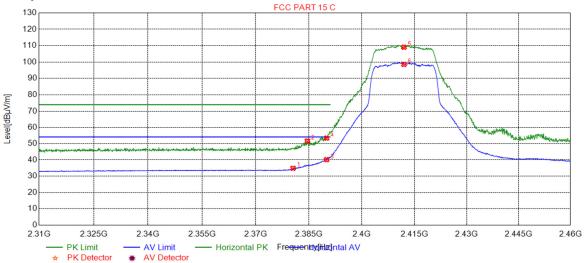
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4.10.1.9 802.11N20_Channel 1

Test Graph



Suspected List

Susp	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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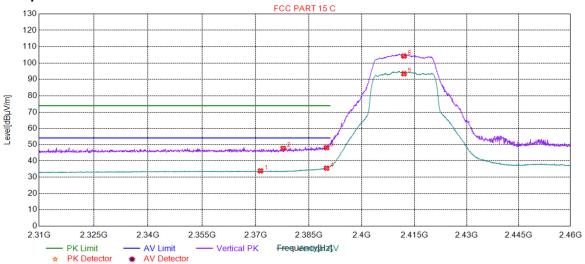
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802.11N20_Channel 1 4.10.1.10

Test Graph



Suspected List

Susp	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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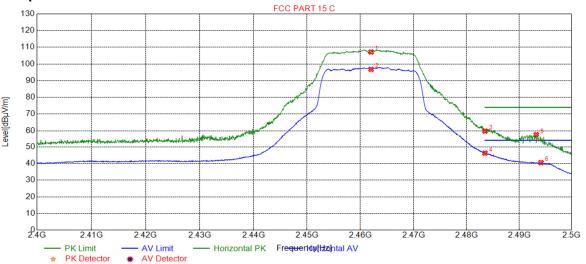
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802.11N20_Channel 11 4.10.1.11

Test Graph



Suspected List

Suspe	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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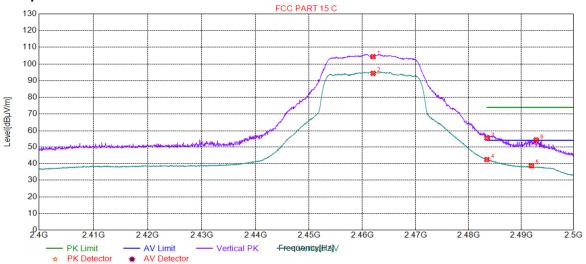
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802.11N20_Channel 11 4.10.1.12

Test Graph



Suspected List

Susp	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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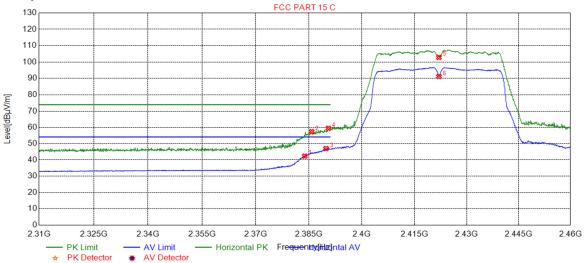
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4.10.1.13 802.11N40_Channel 3

Test Graph



Suspected List

Susp	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

Suspe	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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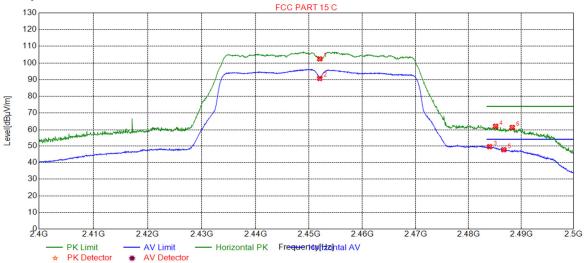
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802.11N40 Channel 9 4.10.1.15

Test Graph



Suspected List

Susp	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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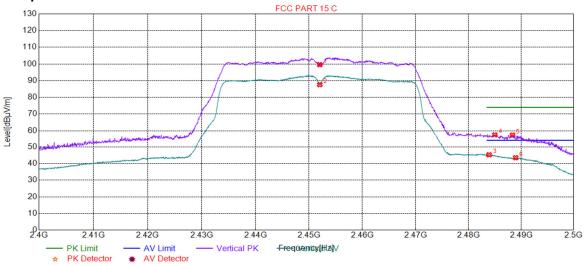
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4.10.1.16 802.11N40_Channel 9

Test Graph



Suspected List

Susp	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	Dadieted Couriers arriagion to the	±4.5dB (30MHz-1GHz)
4	Radiated Spurious emission test	±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

	Condu	ıcted Emission			
			Inventory	Cal. date	Cal.Duedate
Test Equipment	Manufacturer	Model No.	No.	(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											
			Inventory	Cal. date	Cal.Duedate							
Test Equipment	Manufacturer	Model No.	No.	(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/2020/70008.

The End



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