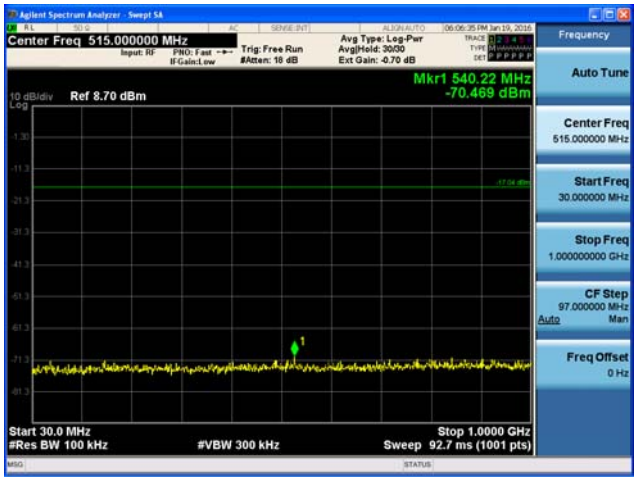
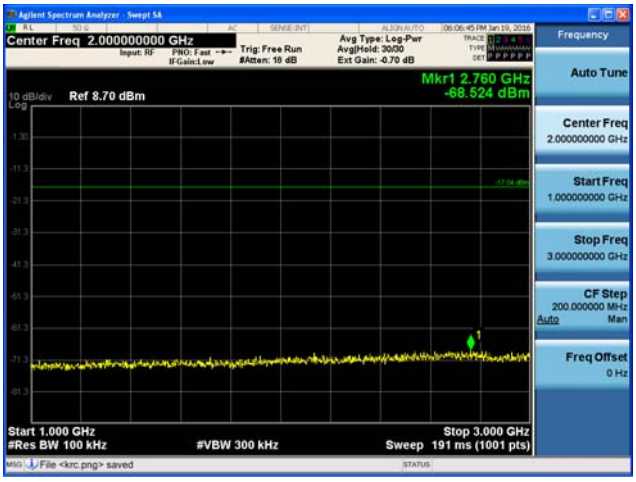
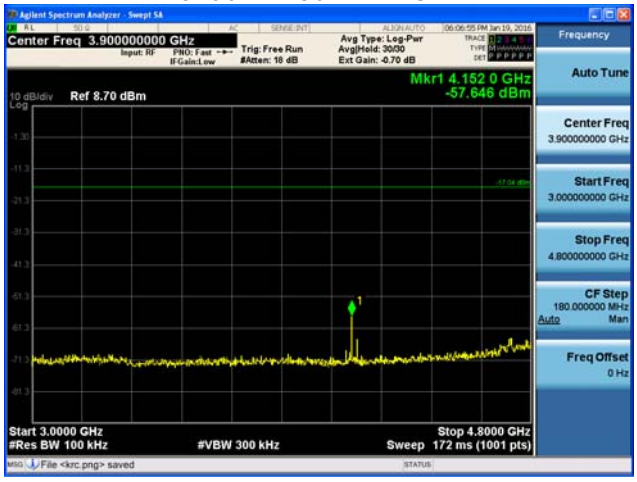
802.11n_HT40



5190MHz 30MHz~1GHz



5190MHz 1GHz~3GHz



5190MHz 3GHz~4.8GHz

5190MHz 4.8GHz~6.4GHz

5190MHz 6.4GHz~9.6GHz

5190MHz 9.6GHz~12.8GHz

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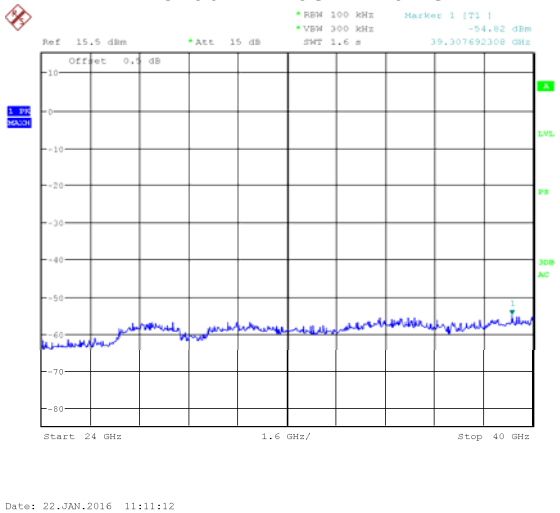
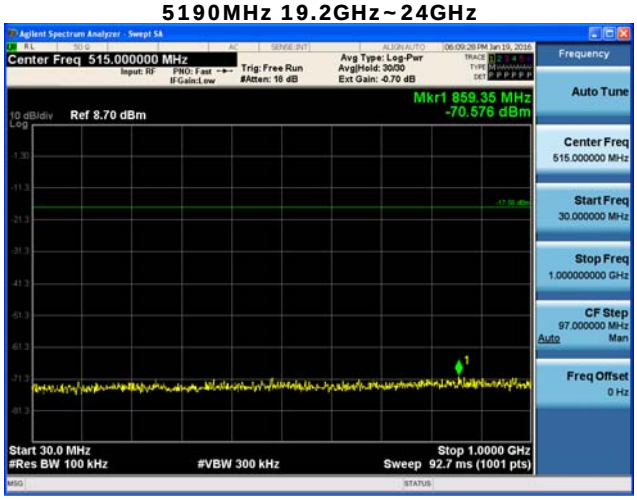
5190MHz 12.8GHz~16GHz

5190MHz 16GHz~19.2GHz

5190MHz 19.2GHz~24GHz



5190MHz 24GHz~40GHz



5230MHz 30MHz~1GHz

5230MHz 1GHz~3GHz

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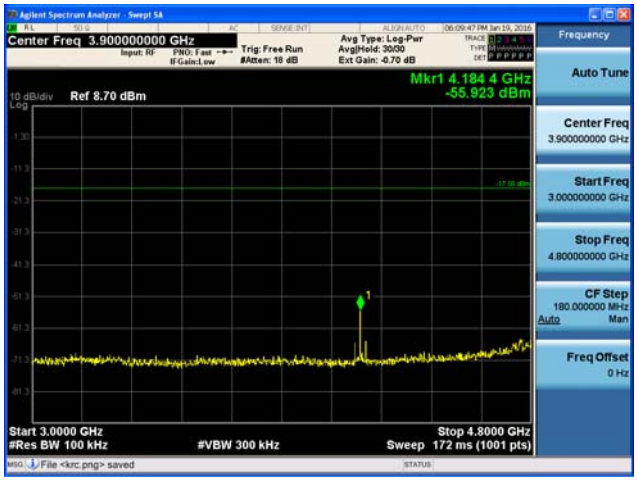
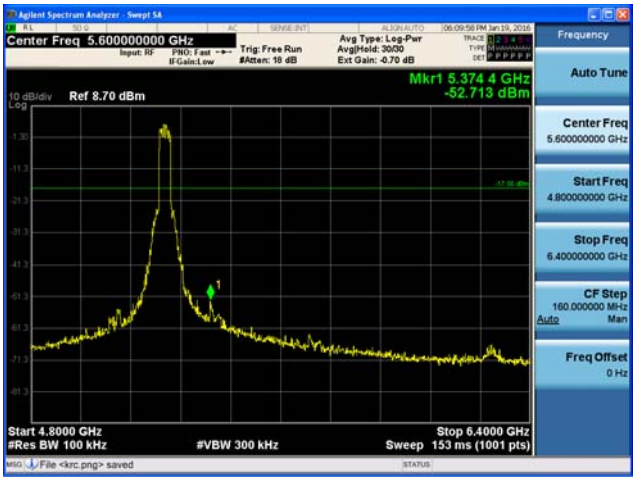
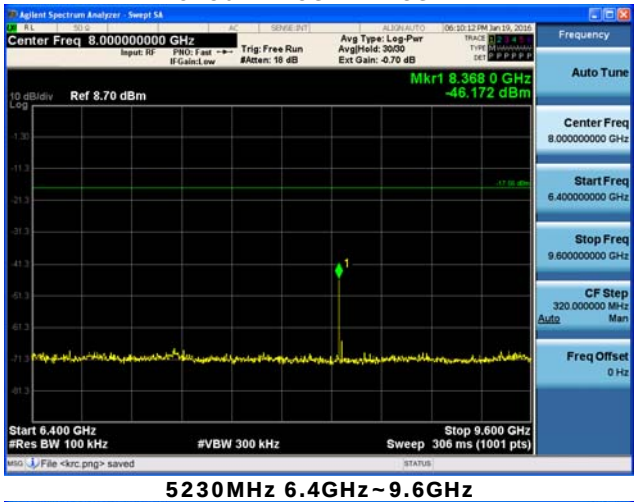


5230MHz 3GHz~4.8GHz



5230MHz 4.8GHz~6.4GHz



5230MHz 6.4GHz~9.6GHz

5230MHz 9.6GHz~12.8GHz

5230MHz 12.8GHz~16GHz

5230MHz 16GHz~19.2GHz

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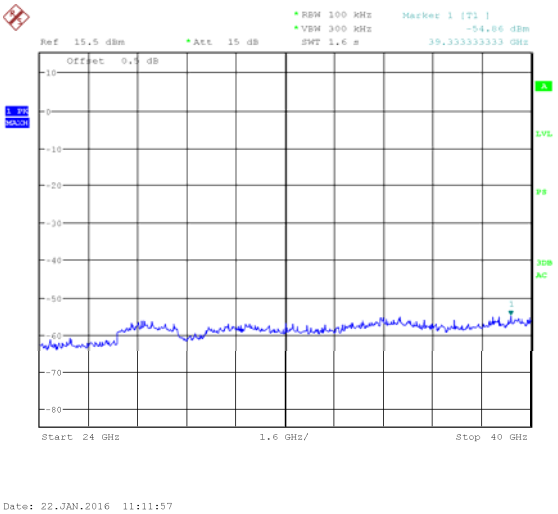
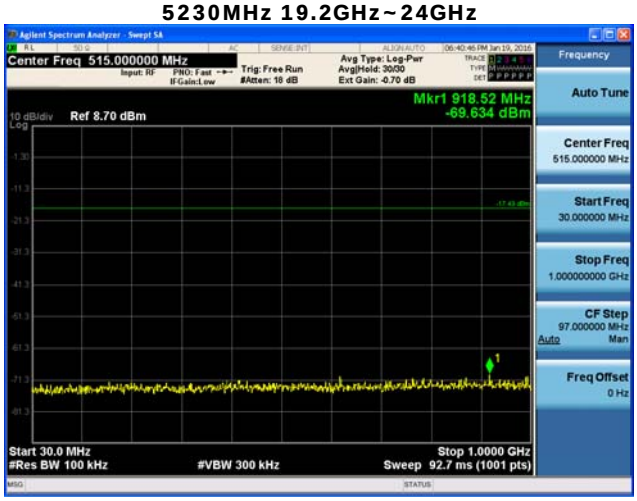
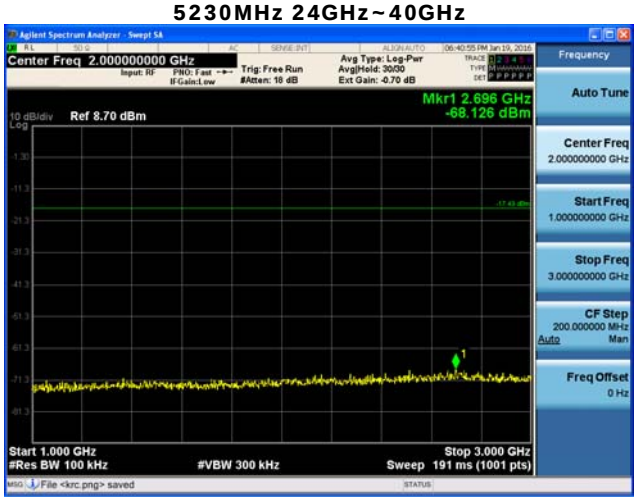
5230MHz 19.2GHz~24GHz



5230MHz 24GHz~40GHz

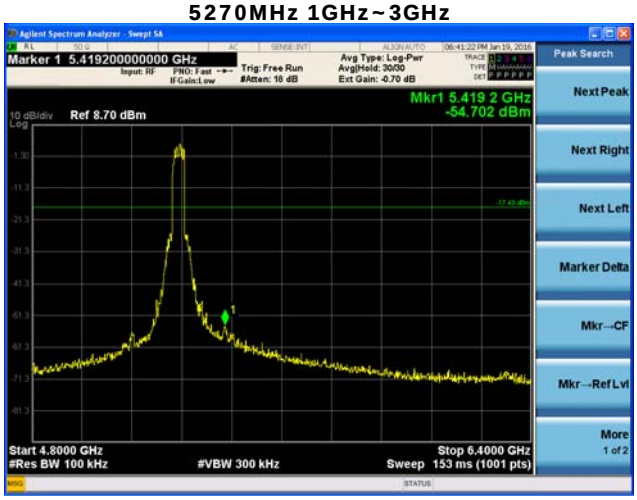


5270MHz 30MHz~1GHz



5270MHz 1GHz~3GHz

5270MHz 3GHz~4.8GHz



5270MHz 4.8GHz~6.4GHz

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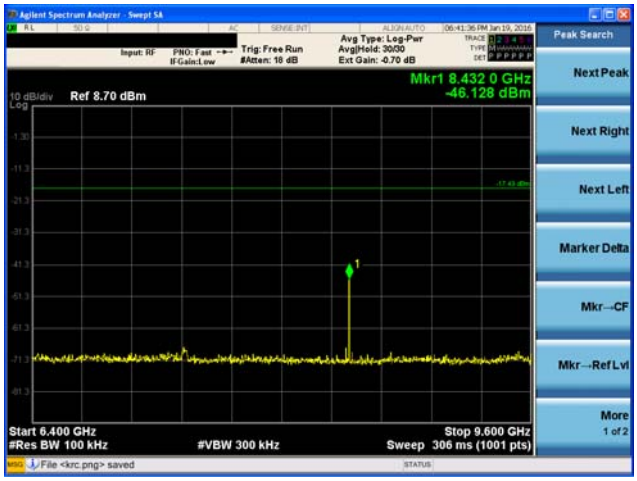
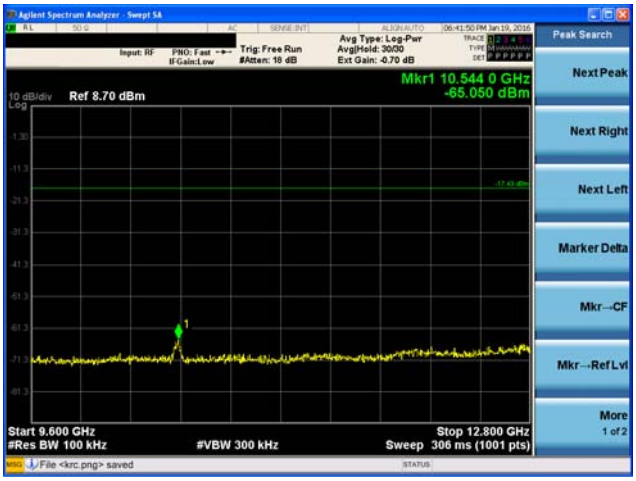


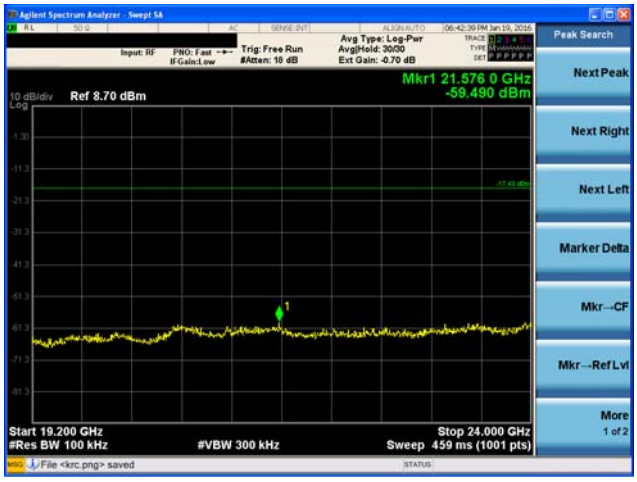
5270MHz 6.4GHz~9.6GHz



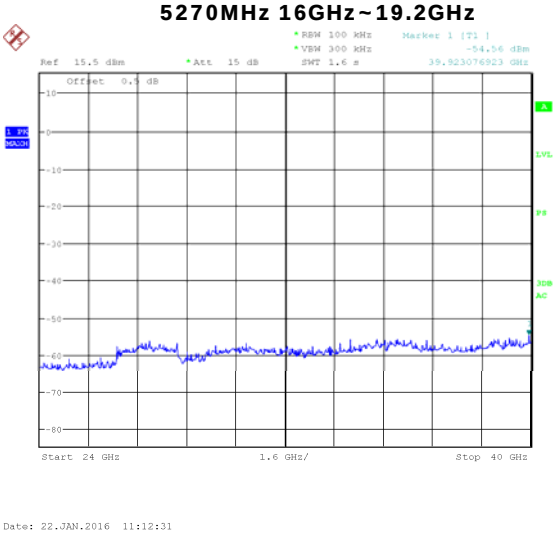
5270MHz 9.6GHz~12.8GHz

5270MHz 12.8GHz~16GHz

5270MHz 16GHz~19.2GHz



5270MHz 19.2GHz~24GHz



5270MHz 24GHz~40GHz

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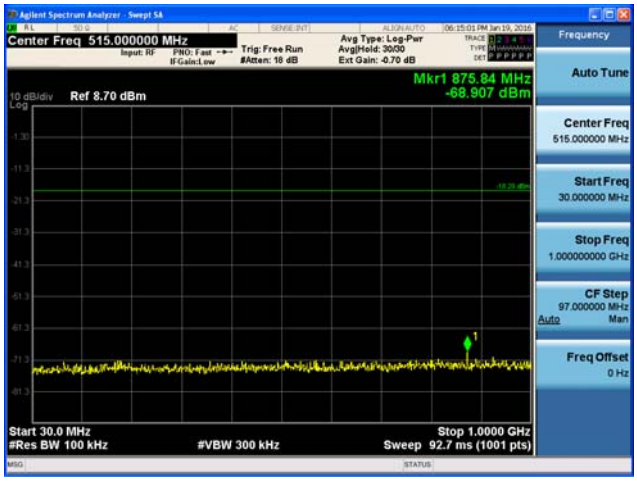
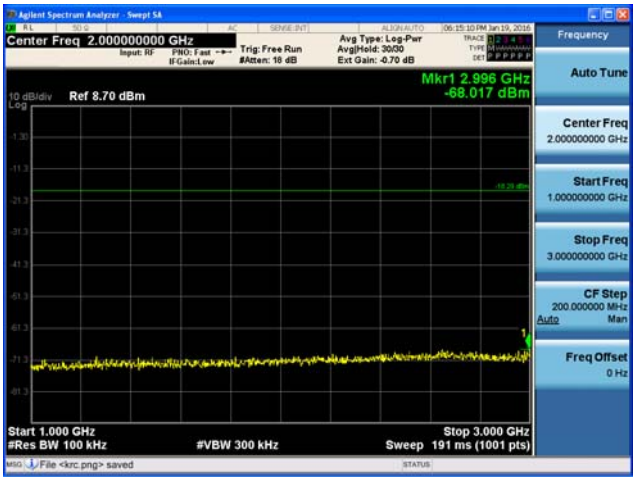
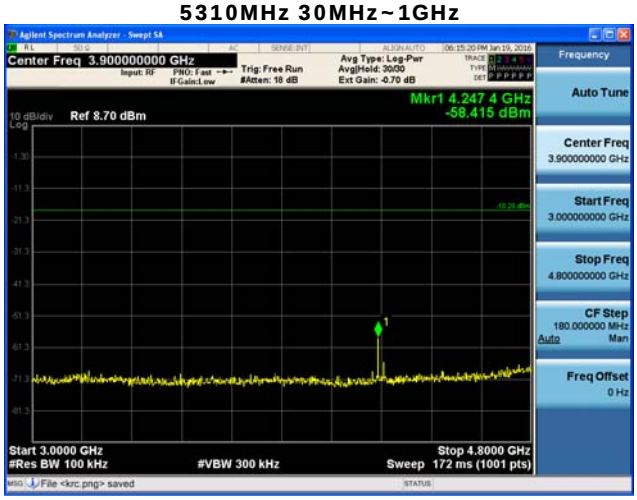


5310MHz 30MHz~1GHz

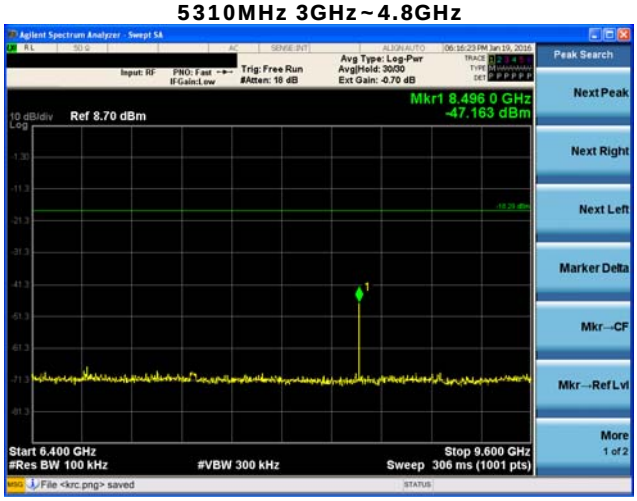


5310MHz 1GHz~3GHz



5310MHz 3GHz~4.8GHz

5310MHz 4.8GHz~6.4GHz



5310MHz 6.4GHz~9.6GHz

5310MHz 9.6GHz~12.8GHz

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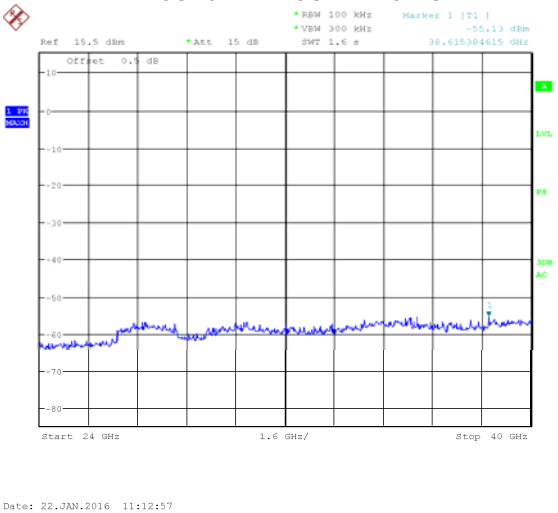
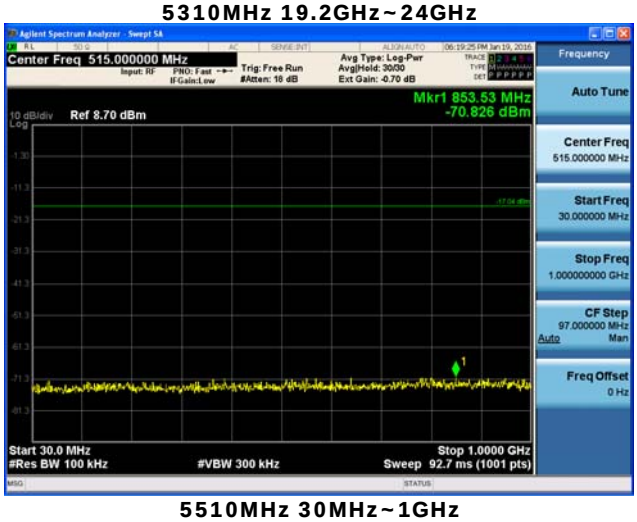
5310MHz 12.8GHz~16GHz

5310MHz 16GHz~19.2GHz

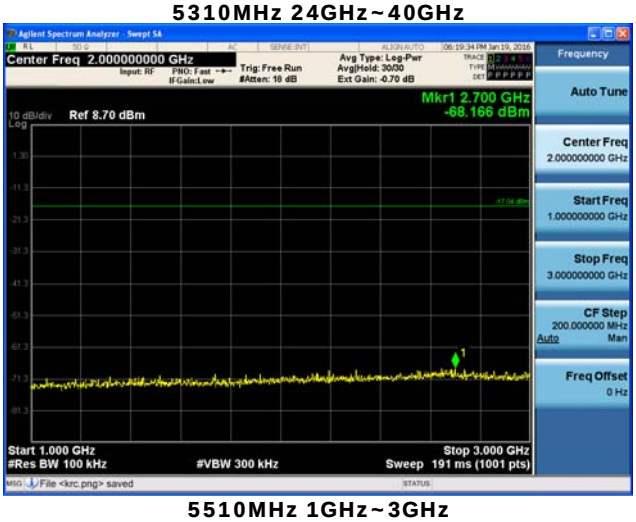
5310MHz 19.2GHz~24GHz



5310MHz 24GHz~40GHz



5510MHz 30MHz~1GHz



5510MHz 1GHz~3GHz

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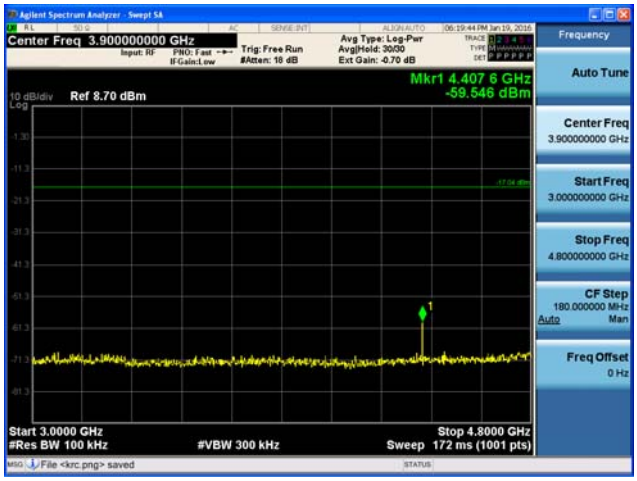
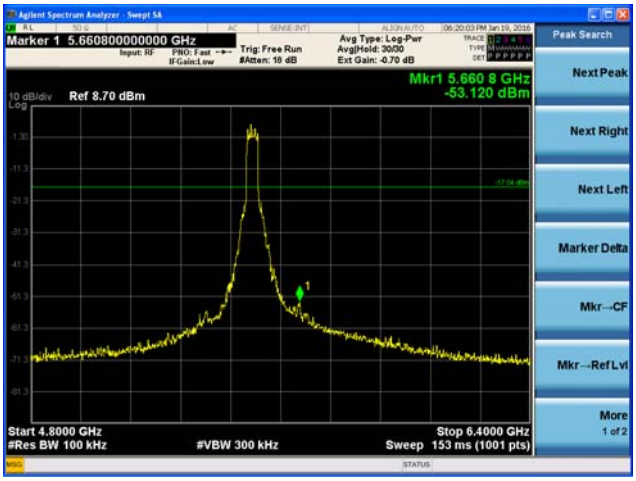


5510MHz 3GHz~4.8GHz



5510MHz 4.8GHz~6.4GHz

5510MHz 6.4GHz~9.6GHz

5510MHz 9.6GHz~12.8GHz

5510MHz 12.8GHz~16GHz

5510MHz 16GHz~19.2GHz

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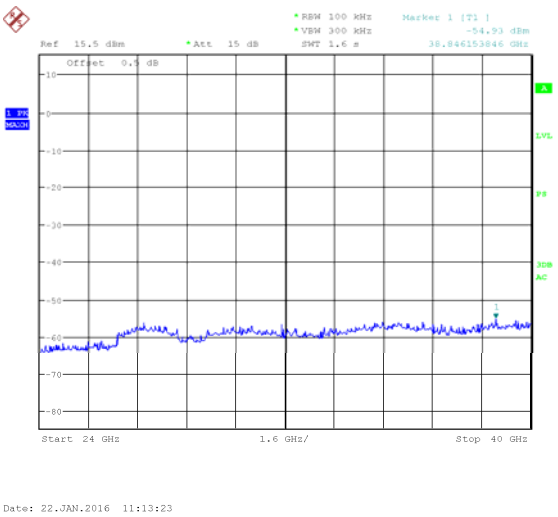
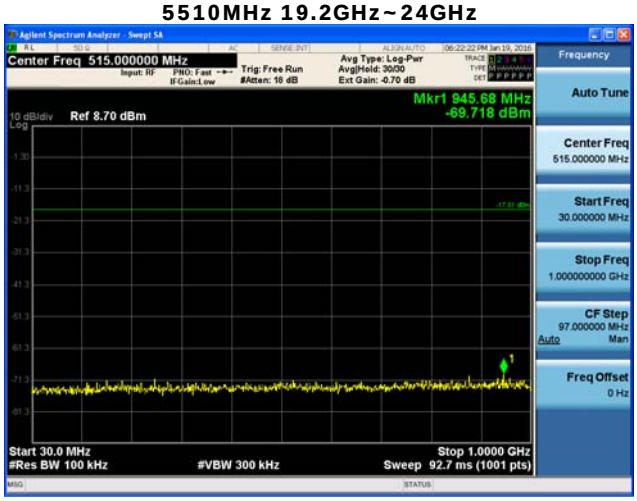
5510MHz 19.2GHz~24GHz



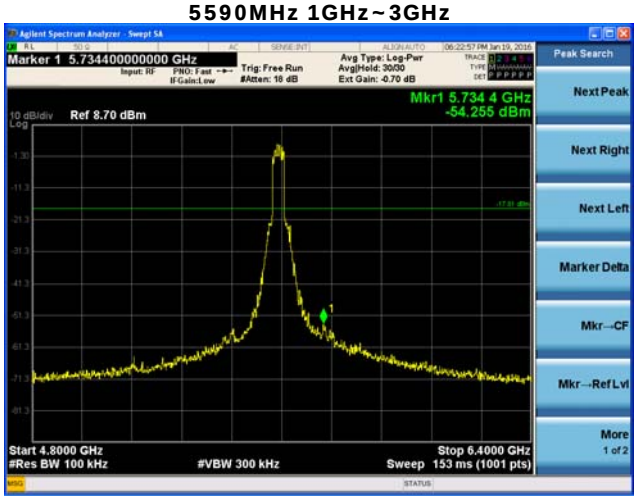
5510MHz 24GHz~40GHz



5590MHz 30MHz~1GHz

5590MHz 1GHz~3GHz

5590MHz 3GHz~4.8GHz



5590MHz 4.8GHz~6.4GHz

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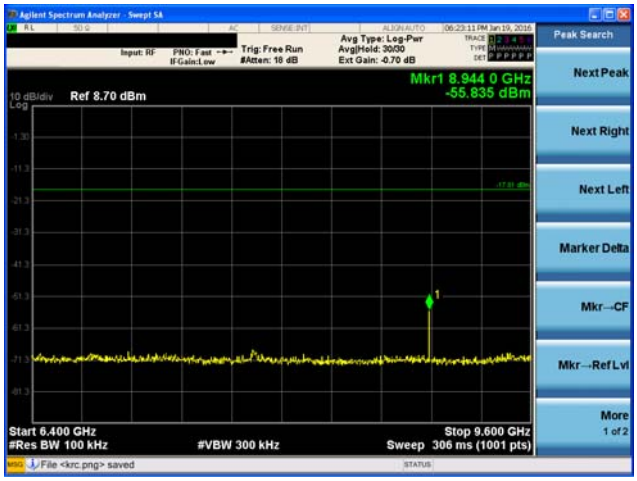


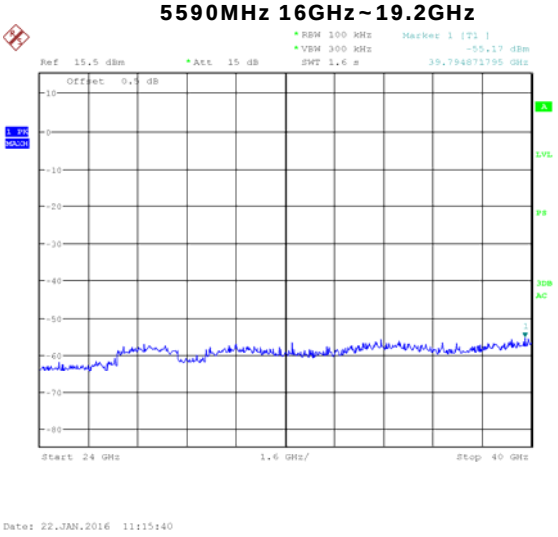
5590MHz 6.4GHz~9.6GHz

5590MHz 9.6GHz~12.8GHz

5590MHz 12.8GHz~16GHz

5590MHz 16GHz~19.2GHz

5590MHz 19.2GHz~24GHz



5590MHz 24GHz~40GHz

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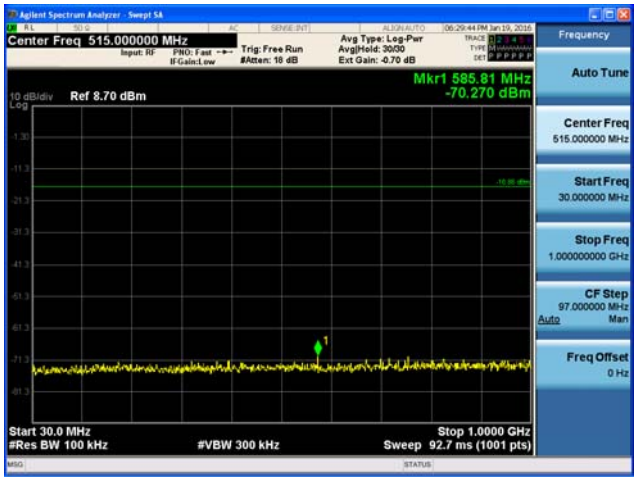
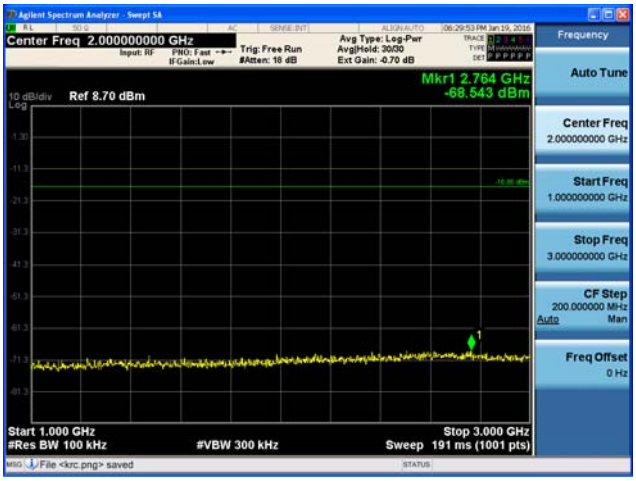
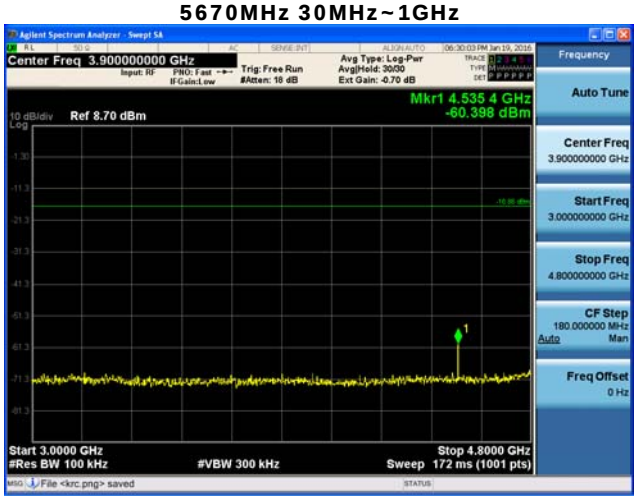


5670MHz 30MHz~1GHz



5670MHz 1GHz~3GHz



5670MHz 3GHz~4.8GHz

5670MHz 4.8GHz~6.4GHz

5670MHz 6.4GHz~9.6GHz

5670MHz 9.6GHz~12.8GHz

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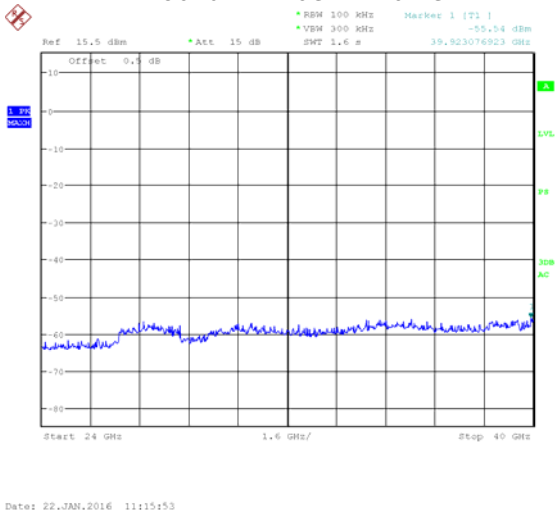
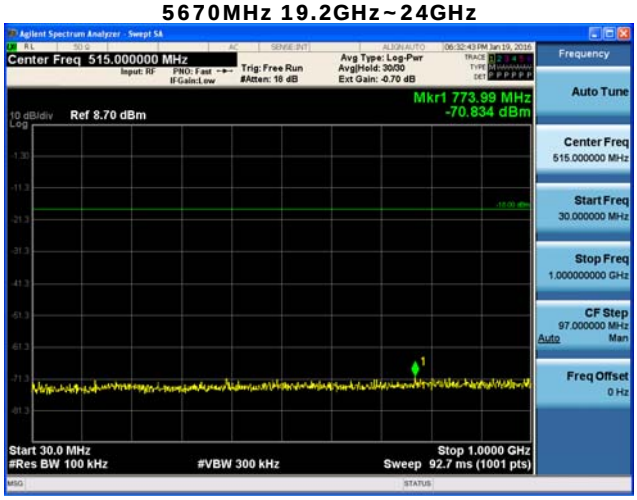
5670MHz 12.8GHz~16GHz

5670MHz 16GHz~19.2GHz

5670MHz 19.2GHz~24GHz



5670MHz 24GHz~40GHz



5755MHz 30MHz~1GHz

5755MHz 1GHz~3GHz

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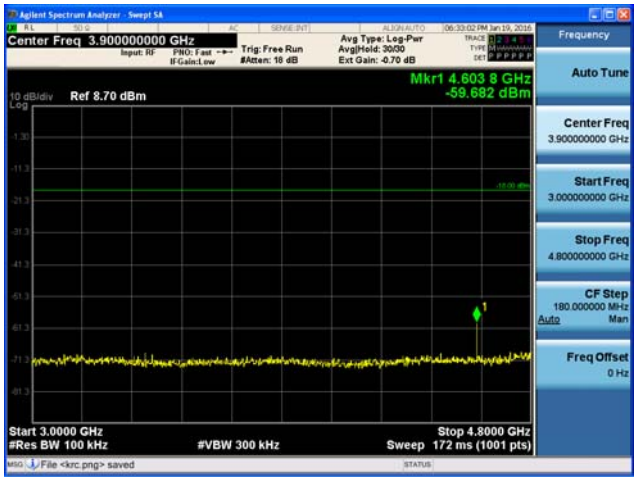
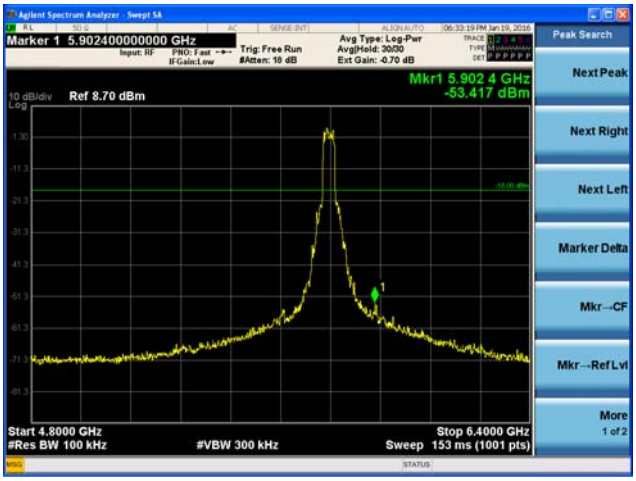
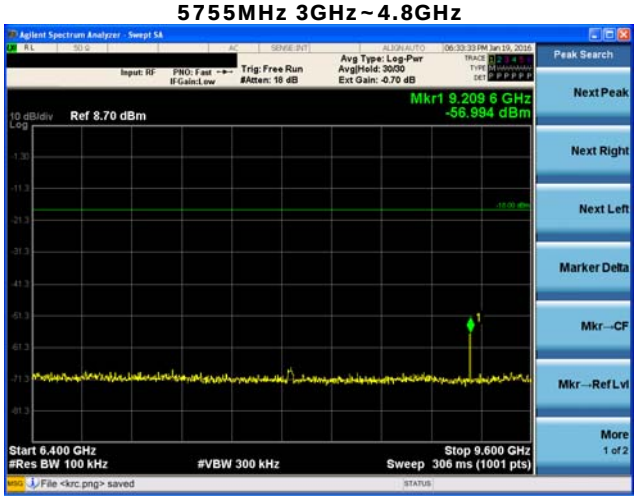


5755MHz 3GHz~4.8GHz



5755MHz 4.8GHz~6.4GHz



5755MHz 6.4GHz~9.6GHz

5755MHz 9.6GHz~12.8GHz

5755MHz 12.8GHz~16GHz

5755MHz 16GHz~19.2GHz

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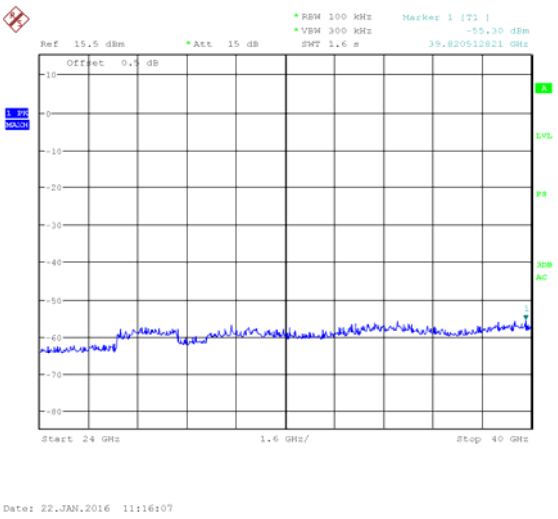
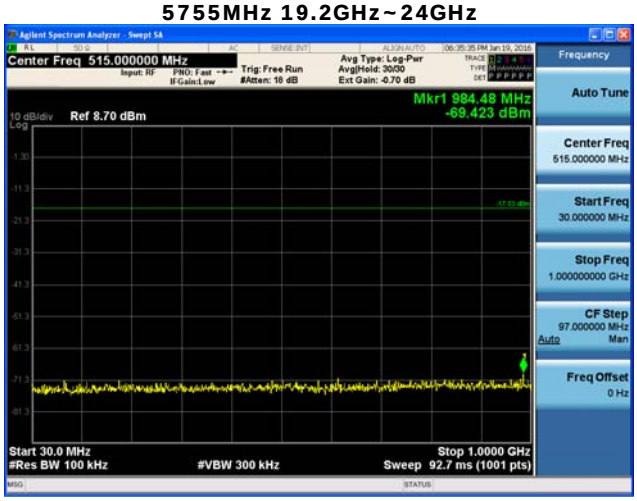
5755MHz 19.2GHz~24GHz

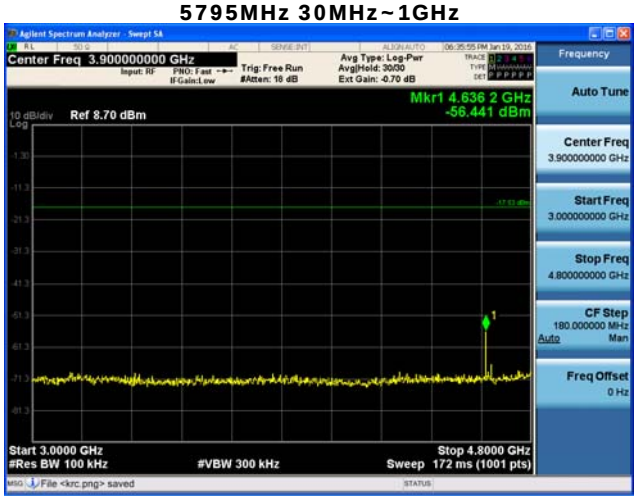


5755MHz 24GHz~40GHz

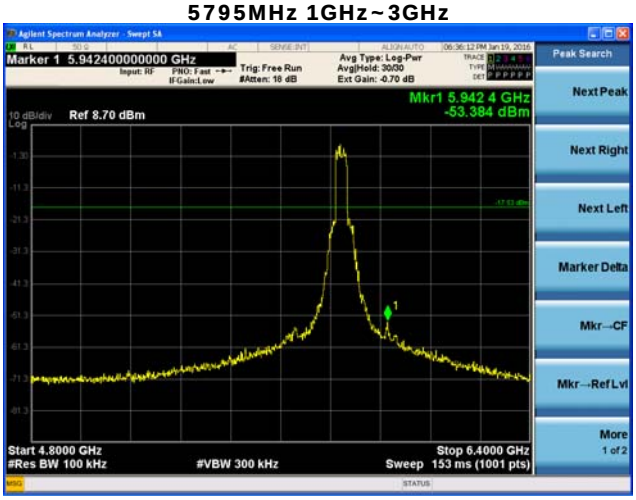


5795MHz 30MHz~1GHz

5795MHz 1GHz~3GHz



5795MHz 3GHz~4.8GHz



5795MHz 4.8GHz~6.4GHz

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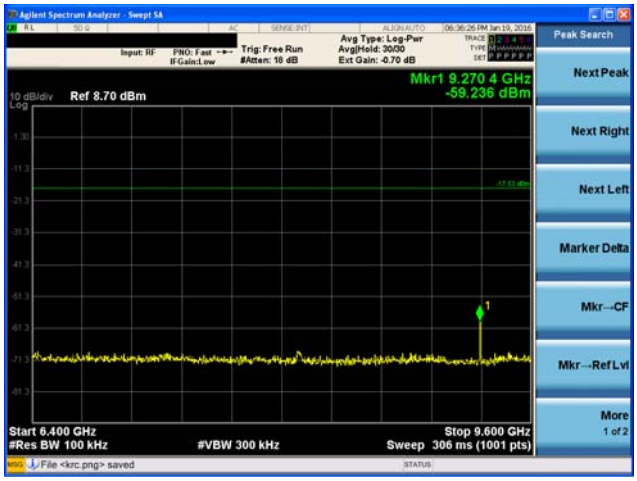
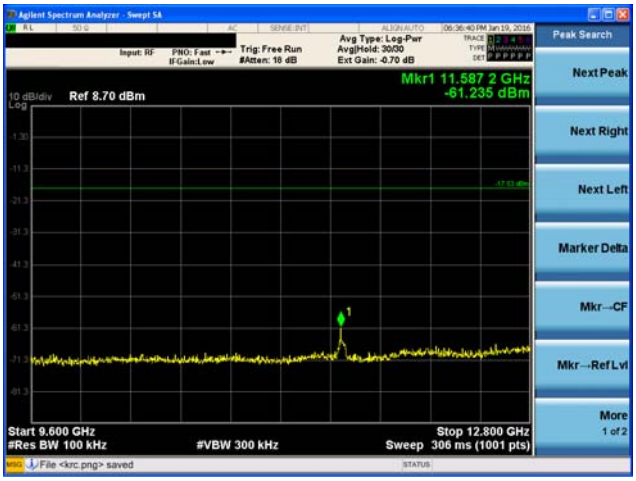


5795MHz 6.4GHz~9.6GHz

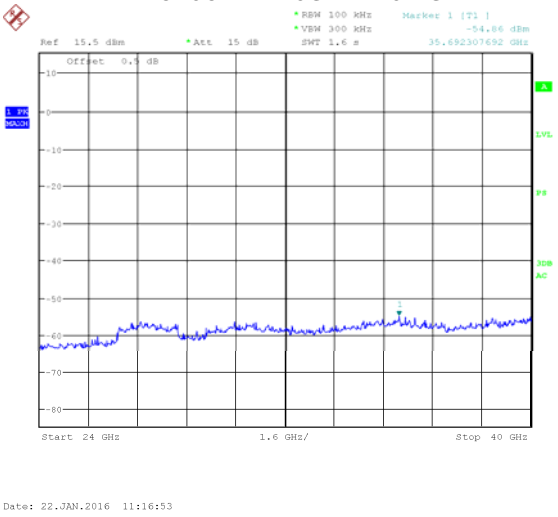


5795MHz 9.6GHz~12.8GHz

5795MHz 12.8GHz~16GHz

5795MHz 16GHz~19.2GHz

5795MHz 19.2GHz~24GHz



5795MHz 24GHz~40GHz

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2.1.8 Unwanted Emissions

Test Location

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
2) In the frequency rage above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

The spectrum analyzer is set to:

Frequency Range = 9 kHz ~ 40 GHz
RBW = 1 MHz for f ≥ 1 GHz, 120 kHz for f < 1 GHz, 9 kHz for f < 30 MHz
VBW ≥ RBW
Sweep = auto

Limit

- **15.209(a)**

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

- **15.407, KDB 789033**

E.I.R.P -27 dBm/MHz

E[dBuV/m] = EIRP[dBm] + 95.2, for d = 3m

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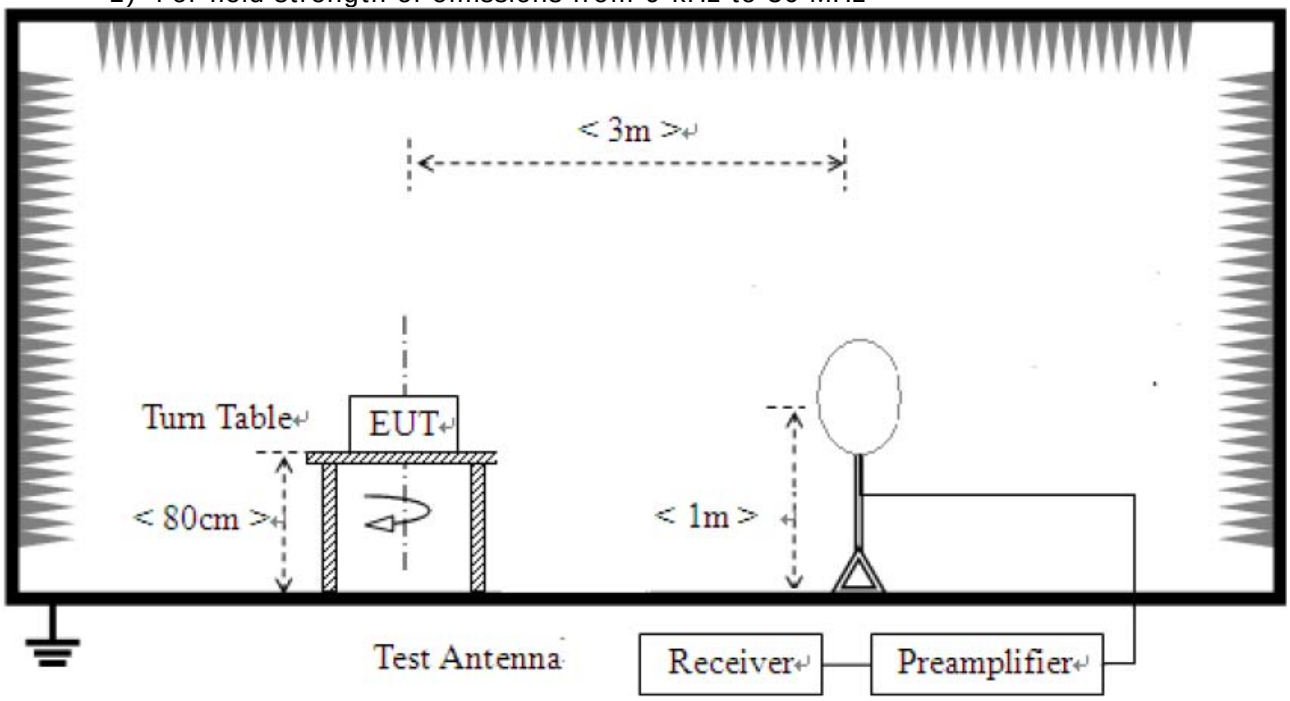
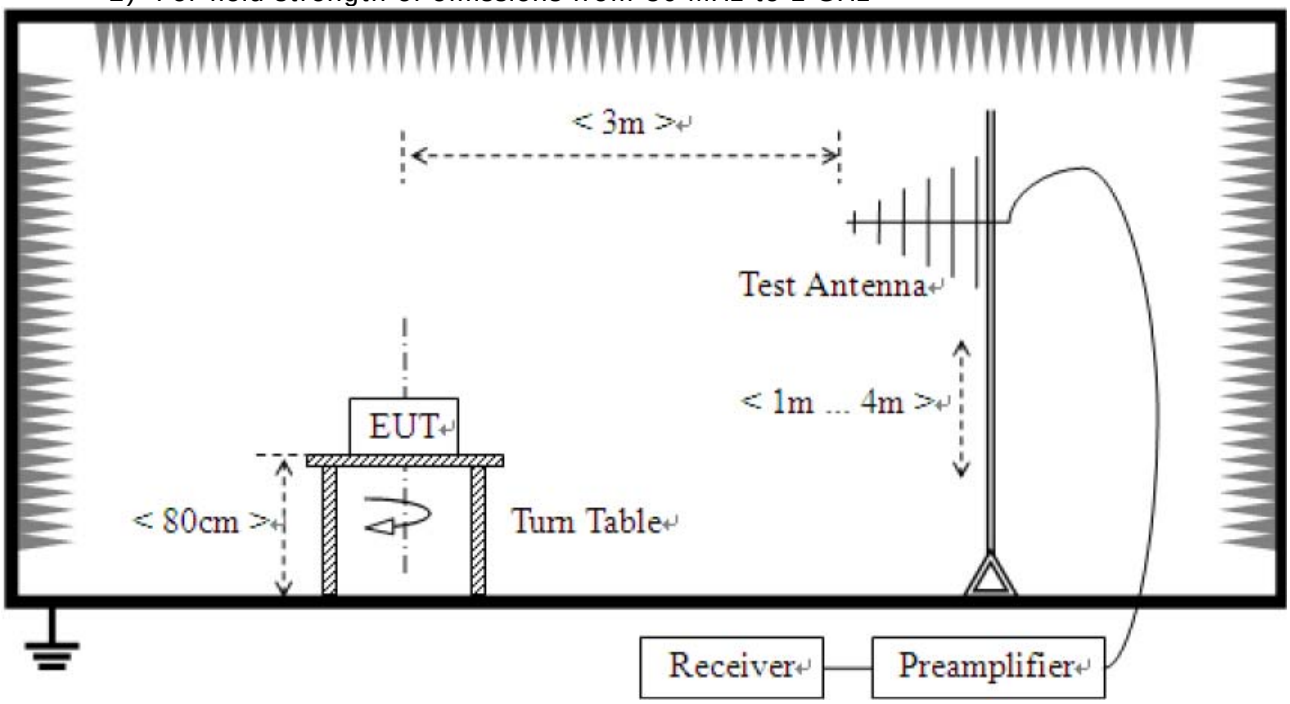
Test Setup:

1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



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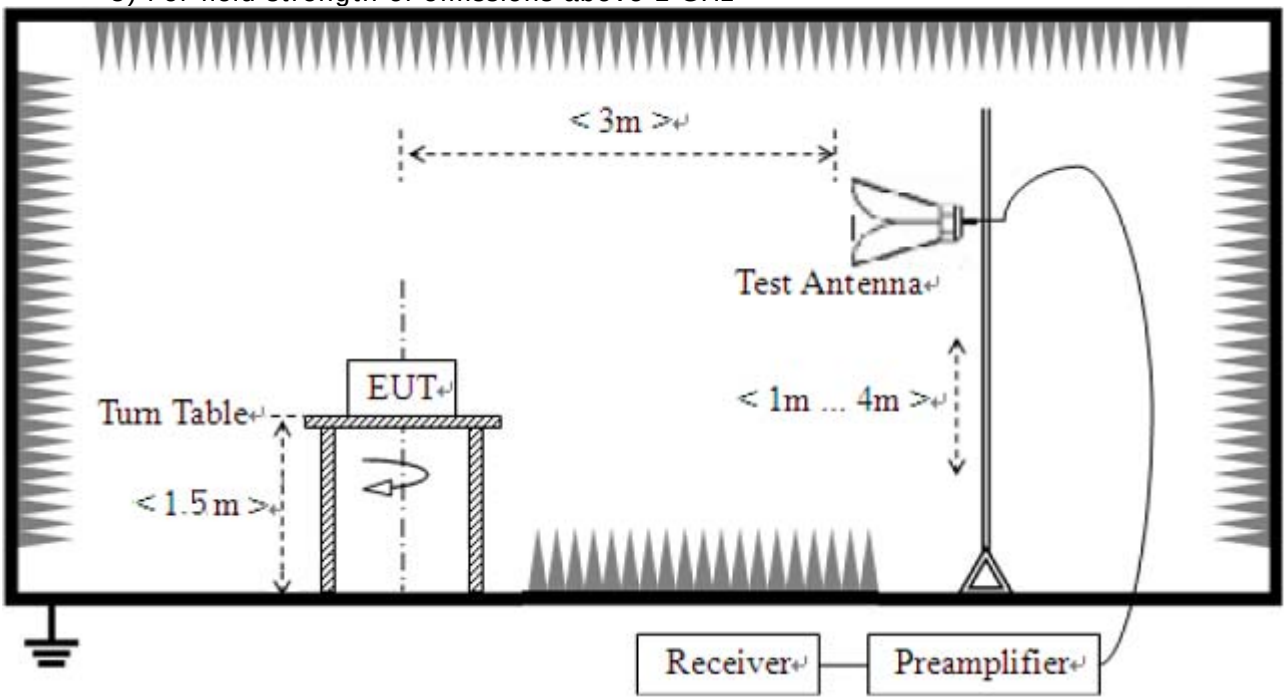
3) For field strength of emissions above 1 GHz



Test Results

1) 9 kHz to 30 MHz

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	9 kHz – 30 MHz
Test mode	802.11a	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
-	-	-	See note

Note :
The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

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2) 30 MHz to 1 GHz

Test mode : 802.11a

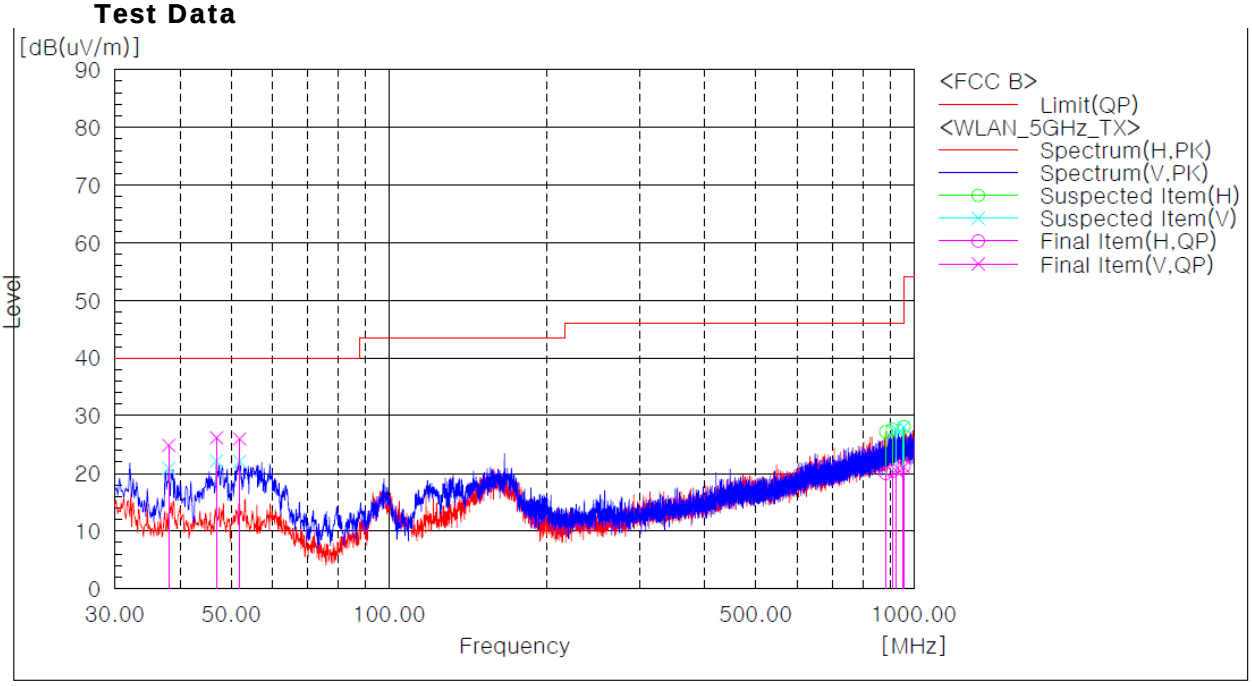
EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	Below 1000MHz
		Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
46.854	26.2	13.8	Quasi-Peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Angle [deg]
1	38.003	V	40.3	-15.4	24.9	40.0	15.1	9.4
2	46.854	V	41.0	-14.8	26.2	40.0	13.8	329.8
3	51.825	V	41.1	-15.1	26.0	40.0	14.0	257.9
4	883.721	H	22.6	-2.6	20.0	46.0	26.0	4.1
5	910.275	H	22.3	-1.9	20.4	46.0	25.6	262.8
6	923.249	V	22.2	-1.7	20.5	46.0	25.5	68.1
7	955.865	V	22.5	-1.4	21.1	46.0	24.9	105.0
8	957.441	H	22.6	-1.4	21.2	46.0	24.8	145.0

Remark :
1. The field strength of spurious emission was measured in the following position: EUT and antenna stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.

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3) above 1 GHz

Test mode : 802.11a

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	1-40GHz
		Detector function	Average / Peak

Remarks
We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
15540.0	51.70	2.30	Average

Ch.36(5180 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15540.0	H	34.85	49.48	15.4	54.00	74.00	50.24	64.87	3.76	9.13
15540.0	V	36.31	50.82	15.4	54.00	74.00	51.70	66.21	2.30	7.79

Ch.40(5200 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15600.0	H	34.81	51.64	15.0	54.00	74.00	49.80	66.63	4.20	7.37
15600.0	V	36.32	51.96	15.0	54.00	74.00	51.31	66.95	2.69	7.05

Ch.48(5240 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15720.0	H	35.90	51.68	14.9	54.00	74.00	50.81	66.59	3.19	7.41
15720.0	V	36.02	50.52	14.9	54.00	74.00	50.93	65.43	3.07	8.57

Ch.52(5260 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15780.0	H	36.40	50.63	14.9	54.00	74.00	51.31	65.54	2.69	8.46
15780.0	V	35.18	50.30	14.9	54.00	74.00	50.09	65.21	3.91	8.79

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Ch.60(5300 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15900.0	H	35.11	49.25	14.3	54.00	74.00	49.44	63.58	4.56	10.42
15900.0	V	35.79	49.89	14.3	54.00	74.00	50.12	64.22	3.88	9.78

Ch.64(5320 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15960.0	H	34.62	48.92	14.3	54.00	74.00	48.95	63.25	5.05	10.75
15960.0	V	34.88	48.43	14.3	54.00	74.00	49.21	62.76	4.79	11.24

Ch.100(5500 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]

No emissions were detected at a level greater than 20dB below limit.

Ch.120(5600 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11200.0	H	34.28	49.10	13.0	54.00	74.00	47.28	62.10	6.72	11.90
11200.0	V	34.13	47.15	13.0	54.00	74.00	47.13	60.15	6.87	13.85

Ch.144(5700 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11400.0	H	35.67	49.87	13.2	54.00	74.00	48.91	63.11	5.09	10.89
11400.0	V	34.56	47.98	13.2	54.00	74.00	47.80	61.22	6.20	12.78

Ch.149(5745 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11490.0	H	35.95	49.45	13.2	54.00	74.00	49.19	62.69	4.81	11.31
11490.0	V	34.40	46.47	13.2	54.00	74.00	47.64	59.71	6.36	14.29

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Ch.157(5785 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11570.0	H	33.85	49.83	13.4	54.00	74.00	47.23	63.21	6.77	10.79
11570.0	V	34.41	46.54	13.4	54.00	74.00	47.79	59.92	6.21	14.08

Ch.165(5825 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11650.0	H	35.95	48.93	13.1	54.00	74.00	49.09	62.07	4.91	11.93
11650.0	V	33.70	46.99	13.1	54.00	74.00	46.84	60.13	7.16	13.87

Restricted band edge test data

Measured frequency range : 4500-5150 MHz, 5350-5460 MHz

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
5150.0	H	39.20	53.76	4.2	54.00	74.00	43.40	57.96	10.60	16.04
5150.0	V	39.16	52.62	4.2	54.00	74.00	43.36	56.82	10.64	17.18
5350.0	H	40.73	52.44	4.6	54.00	74.00	45.37	57.08	8.63	16.92
5350.0	V	39.23	52.36	4.6	54.00	74.00	43.87	57.00	10.13	17.00
5460.0	H	39.13	51.51	4.9	54.00	74.00	44.04	56.42	9.96	17.58
5460.0	V	38.29	52.15	4.9	54.00	74.00	43.20	57.06	10.80	16.94

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Test mode : 802.11n_HT20

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	1-40GHz
		Detector function	Average / Peak

Remarks
We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
15540.0	51.84	2.16	Average

Ch.36(5180 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15540.0	H	34.79	49.94	15.4	54.00	74.00	50.18	65.33	3.82	8.67
15540.0	V	36.45	51.79	15.4	54.00	74.00	51.84	67.18	2.16	6.82

Ch.40(5200 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15600.0	H	35.56	50.89	15.0	54.00	74.00	50.55	65.88	3.45	8.12
15600.0	V	36.16	51.36	15.0	54.00	74.00	51.15	66.35	2.85	7.65

Ch.48(5240 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15720.0	H	35.04	51.40	14.9	54.00	74.00	49.95	66.31	4.05	7.69
15720.0	V	35.21	52.31	14.9	54.00	74.00	50.12	67.22	3.88	6.78

Ch.52(5260 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15780.0	H	34.86	50.39	14.9	54.00	74.00	49.77	65.30	4.23	8.70
15780.0	V	35.27	50.48	14.9	54.00	74.00	50.18	65.39	3.82	8.61

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Ch.60(5300 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15900.0	H	34.88	49.82	14.3	54.00	74.00	49.21	64.15	4.79	9.85
15900.0	V	35.22	50.16	14.3	54.00	74.00	49.55	64.49	4.45	9.51

Ch.64(5320 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15960.0	H	34.56	48.98	14.3	54.00	74.00	48.89	63.31	5.11	10.69
15960.0	V	35.07	49.53	14.3	54.00	74.00	49.40	63.86	4.60	10.14

Ch.100(5500 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]

No emissions were detected at a level greater than 20dB below limit.

Ch.120(5600 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11200.0	H	35.19	48.67	13.0	54.00	74.00	48.19	61.67	5.81	12.33
11200.0	V	34.49	46.54	13.0	54.00	74.00	47.49	59.54	6.51	14.46

Ch.144(5700 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11400.0	H	36.68	50.48	13.2	54.00	74.00	49.92	63.72	4.08	10.28
11400.0	V	34.73	48.86	13.2	54.00	74.00	47.97	62.10	6.03	11.90

Ch.149(5745 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11490.0	H	36.17	48.75	13.2	54.00	74.00	49.41	61.99	4.59	12.01
11490.0	V	33.64	46.55	13.2	54.00	74.00	46.88	59.79	7.12	14.21

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Ch.157(5785 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11570.0	H	35.65	49.36	13.4	54.00	74.00	49.03	62.74	4.97	11.26
11570.0	V	33.69	46.44	13.4	54.00	74.00	47.07	59.82	6.93	14.18

Ch.165(5825 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
11650.0	H	35.60	48.46	13.1	54.00	74.00	48.74	61.60	5.26	12.40
11650.0	V	33.84	46.62	13.1	54.00	74.00	46.98	59.76	7.02	14.24

Restricted band edge test data

Measured frequency range : 4500-5150 MHz, 5350-5460 MHz

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
5150.0	H	40.30	55.26	4.2	54.00	74.00	44.50	59.46	9.50	14.54
5150.0	V	40.19	56.41	4.2	54.00	74.00	44.39	60.61	9.61	13.39
5350.0	H	40.78	53.42	4.6	54.00	74.00	45.42	58.06	8.58	15.94
5350.0	V	39.43	52.58	4.6	54.00	74.00	44.07	57.22	9.93	16.78
5460.0	H	39.08	52.31	4.9	54.00	74.00	43.99	57.22	10.01	16.78
5460.0	V	38.08	51.15	4.9	54.00	74.00	42.99	56.06	11.01	17.94

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Test mode : 802.11n_HT40

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	1-40GHz
		Detector function	Average / Peak

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
5150.0	52.16	1.84	Average

Ch.38(5190 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15570.0	H	34.34	46.50	15.4	54.00	74.00	49.73	61.89	4.27	12.11
15570.0	V	34.70	47.98	15.4	54.00	74.00	50.09	63.37	3.91	10.63

Ch.46(5230 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15690.0	H	34.13	46.03	15.0	54.00	74.00	49.12	61.02	4.88	12.98
15690.0	V	34.39	47.50	15.0	54.00	74.00	49.38	62.49	4.62	11.51

Ch.54(5270 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
15810.0	H	33.94	47.82	14.7	54.00	74.00	48.61	62.49	5.39	11.51
15810.0	V	34.48	46.80	14.7	54.00	74.00	49.15	61.47	4.85	12.53

Ch.62(5310 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

Ch.102(5510 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

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Ch.118(5590 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

Ch.142(5710 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

Ch.151(5755 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

Ch.159(5795 MHz)

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

Restricted band edge test data

Measured frequency range : 4500-5150 MHz, 5350-5460 MHz

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
5150.0	H	47.96	67.51	4.2	54.00	74.00	52.16	71.71	1.84	2.29
5150.0	V	47.70	65.49	4.2	54.00	74.00	51.90	69.69	2.10	4.31
5350.0	H	47.33	64.81	4.6	54.00	74.00	51.97	69.45	2.03	4.55
5350.0	V	45.99	66.75	4.6	54.00	74.00	50.63	71.39	3.37	2.61
5460.0	H	40.68	59.34	4.9	54.00	74.00	45.59	64.25	8.41	9.75
5460.0	V	39.73	58.94	4.9	54.00	74.00	44.64	63.85	9.36	10.15

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Test Results

1) 9 kHz to 30 MHz

Test mode : Receiver

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	9 kHz – 30 MHz
Mode	Receiver	Detector function	Quasi-Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
-	-	-	See note

Note :
The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
Distance extrapolation factor = 40 log (specific distance / test distance) (dB)

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2) 30 MHz to 1 GHz

Test mode : Receiver

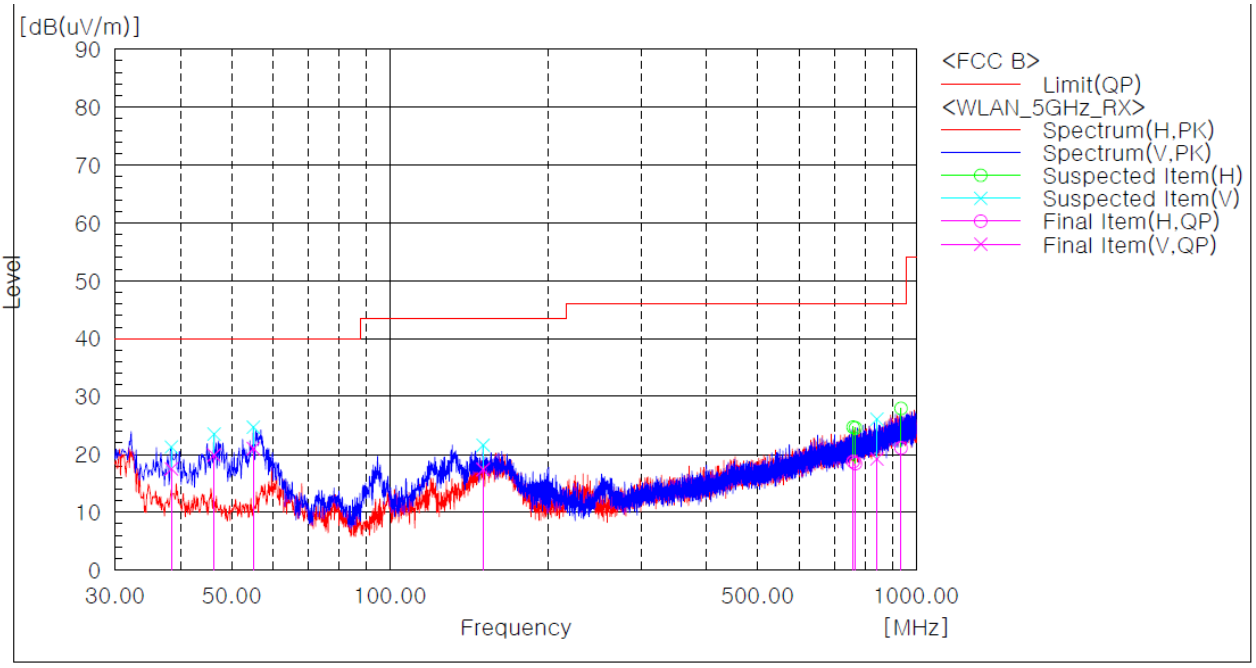
EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	Below 1000MHz
Mode	Receiver	Detector function	Quasi-Peak / Peak

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
54.978	21.0	19.0	Quasi-Peak

Test Data



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Angle [deg]
1	38.366	V	32.8	-15.3	17.5	40.0	22.5	62.7
2	46.248	V	34.7	-14.8	19.9	40.0	20.1	101.3
3	54.978	V	35.7	-14.7	21.0	40.0	19.0	212.9
4	150.159	V	25.2	-7.8	17.4	43.5	26.1	212.9
5	759.198	H	22.9	-4.2	18.7	46.0	27.3	138.8
6	766.473	H	22.5	-4.1	18.4	46.0	27.6	252.6
7	842.011	V	22.5	-3.3	19.2	46.0	26.8	101.3
8	936.101	H	22.7	-1.6	21.1	46.0	24.9	252.6

Remark :

1. The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.

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3) above 1 GHz

Test mode : Receiver

EUT	Tablet PC	Measurement Detail	
Model	LPT-200AR	Frequency Range	1-40GHz
Mode	Receiver	Detector function	Average / Peak

Remarks

We have tested three mode (X, Y, Z). The worst mode (X axis) for final test.

The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
No emissions were detected at a level greater than 20dB below limit.			

Frequency [MHz]	(P)	Reading AV [dB(uV)]	Reading PK [dB(uV)]	Factor [dB(1/m)]	Level AV [dB(uV/m)]	Level PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Margin AV [dB]	Margin PK [dB]
No emissions were detected at a level greater than 20dB below limit.										

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2.1.9 AC Conducted Emissions

Test Location
Shielded Room

Frequency Range of Measurement
150 kHz to 30 MHz

Instrument Settings
IF Band Width: 9 kHz

Test Procedures

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.
Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- **15.207(a)**

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

* Decreases with the logarithm of the frequency.

Test Results
The requirements are:

☒ Complies

Frequency (MHz)	Measured Data (dBuV/m)	Margin (dB)	Remark
			Average

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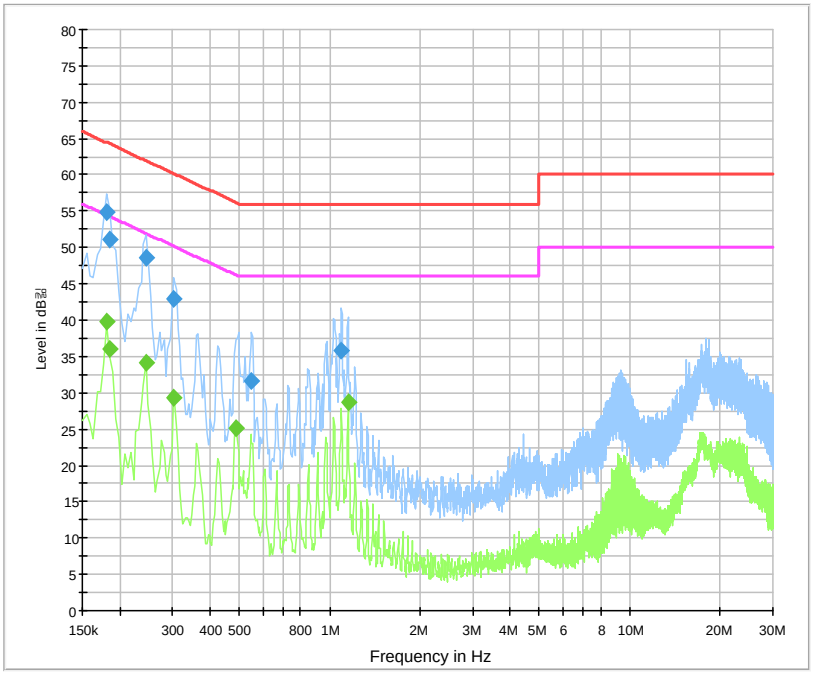
Test Data

[L1]

CISPR 22 Class B_L1



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.181500	54.9	1000.0	9.000	On	L1	9.8	9.5	64.4
0.186000	51.0	1000.0	9.000	On	L1	9.8	13.2	64.2
0.244500	48.6	1000.0	9.000	On	L1	9.6	13.4	61.9
0.303000	43.0	1000.0	9.000	On	L1	9.7	17.1	60.2
0.550500	31.6	1000.0	9.000	On	L1	9.9	24.4	56.0
1.095000	35.9	1000.0	9.000	On	L1	9.7	20.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.181500	39.8	1000.0	9.000	On	L1	9.8	14.7	54.4
0.186000	36.1	1000.0	9.000	On	L1	9.8	18.2	54.2
0.244500	34.1	1000.0	9.000	On	L1	9.6	17.8	51.9
0.303000	29.2	1000.0	9.000	On	L1	9.7	20.9	50.2
0.487500	25.2	1000.0	9.000	On	L1	9.9	21.0	46.2
1.153500	28.8	1000.0	9.000	On	L1	9.7	17.2	46.0

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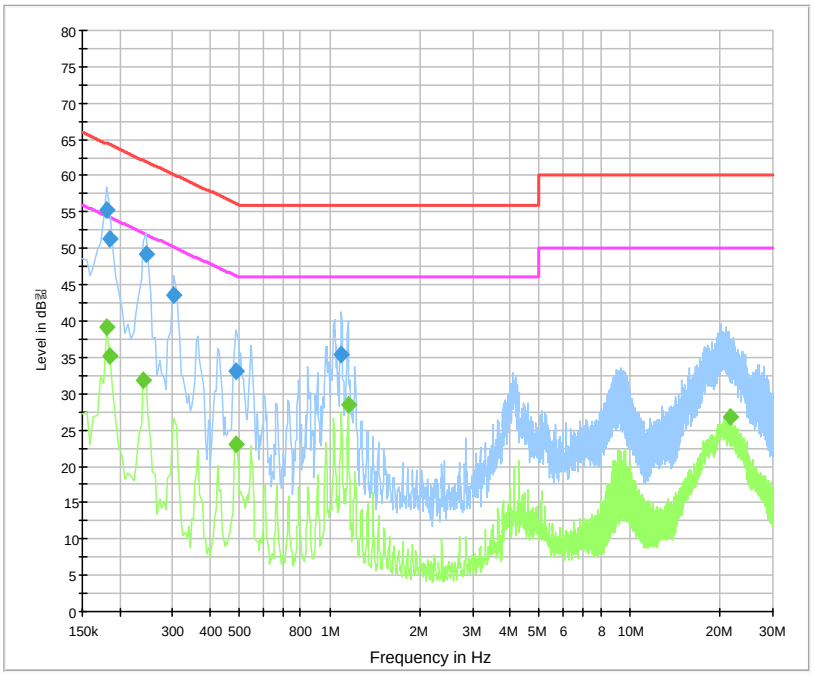
[NEUTRAL]

CISPR 22 Class B_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.181500	55.4	1000.0	9.000	On	N	9.8	9.1	64.4
0.186000	51.4	1000.0	9.000	On	N	9.8	12.8	64.2
0.244500	49.2	1000.0	9.000	On	N	9.6	12.8	61.9
0.303000	43.6	1000.0	9.000	On	N	9.7	16.6	60.2
0.487500	33.1	1000.0	9.000	On	N	9.9	23.1	56.2
1.095000	35.3	1000.0	9.000	On	N	9.7	20.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.181500	39.1	1000.0	9.000	On	N	9.8	15.3	54.4
0.186000	35.2	1000.0	9.000	On	N	9.8	19.1	54.2
0.240000	31.8	1000.0	9.000	On	N	9.7	20.3	52.1
0.487500	23.1	1000.0	9.000	On	N	9.9	23.1	46.2
1.153500	28.4	1000.0	9.000	On	N	9.7	17.6	46.0
21.750000	26.9	1000.0	9.000	On	N	10.1	23.1	50.0

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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Signal Analyzer	Agilent	N9020A	MY48011598	2015-11-02	2016-11-02
2	Signal Generator	Rohde & Schwarz	SMB100A	175528	2016-01-20	2017-01-20
3	EMI Test Receiver	Rohde & Schwarz	ESCI7	100816	2015-11-02	2016-11-02
4	LISN	Rohde & Schwarz	ENV216	101760	2016-02-05	2017-02-05
5	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2015-11-02	2016-11-02
6	Trilog Broadband Antenna	SCHWARZBECK	VULB 9161 SE	9161-4133	2015-06-18	2017-06-18
7	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2014-05-19	2016-05-19
8	6dB Attenuator	R&S	DNF	272.4110.50-2	2015-11-03	2016-11-03
9	AMPLIFIER	SONOMA	310	291721	2016-02-02	2017-02-02
10	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2015-05-15	2016-05-15
11	PREAMPLIFIER	Agilent	8449B	3008A02307	2015-10-01	2016-10-01
12	Horn Antenna	ETS-Lindgren	3115	00078894	2015-09-02	2017-09-02
13	Horn Antenna	ETS-Lindgren	3116	00062504	2015-09-04	2017-09-04
14	Horn Antenna	ETS-Lindgren	3116	00062916	2015-04-30	2017-04-30
15	Horn Antenna	ETS-Lindgren	3117	00154525	2015-09-02	2017-09-02
16	SIGNAL ANALYZER	Rohde & Schwarz	FSV	101198	2015-07-16	2016-07-15
17	Notch filter	MICRO-TRONICS	BRM50716-02	0006	2015-10-12	2016-10-12

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