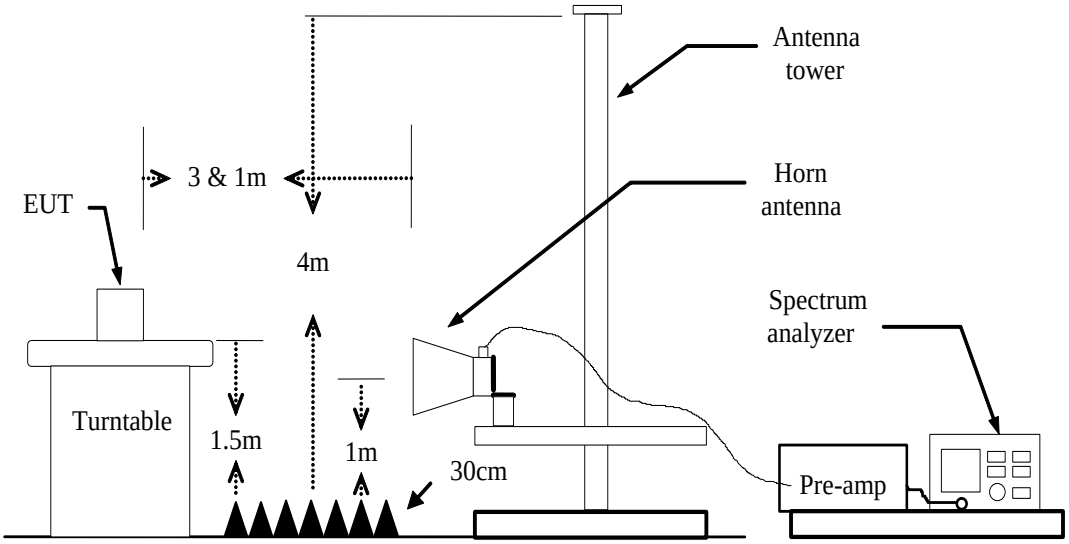
Above 1 GHz



For the actual test configuration, please refer to the related item – Photographs of the TEST CONFIGURATION.

6.7.3 MEASURING SETTING

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

6.7.4TEST PROCEDURE

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz
Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

6.7.5 DATA SAPLE

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXX.XXXX	36.37	-12.20	24.17	40.00	-15.83	V	QP

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correct Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Q.P. = Quasi-peak Reading

Above 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
XXXX.XXXX	62.09	-11.42	50.67	74.00	-23.33	V	Peak
XXXX.XXXX	49.78	-11.42	38.36	54.00	-15.64	V	AVG

Frequency (MHz) = Emission frequency in MHz
Reading (dBuV) = Uncorrected Analyzer / Receiver reading
Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
Limit (dBuV/m) = Limit stated in standard
Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
Peak = Peak Reading
AVG = Average Reading

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limits (dBuV/m)
Result (dBuV/m) = Reading (dBuV) + Correction Factor

6.7.6 TEST RESULTS

GL-AR750S

Below 1 GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 17, 2018

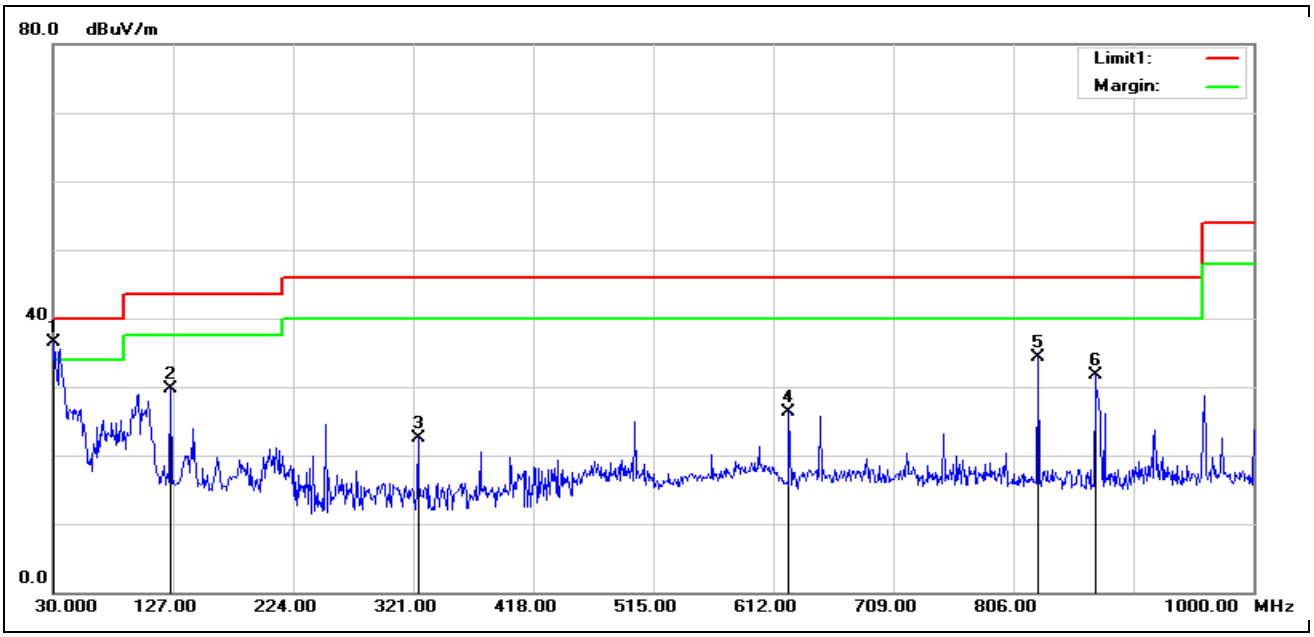
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
30.9700	48.76	-12.22	36.54	40.00	-3.46	V	QP
125.0600	50.71	-20.94	29.77	43.50	-13.73	V	QP
324.8800	41.27	-18.67	22.60	46.00	-23.40	V	QP
624.6100	39.12	-12.73	26.39	46.00	-19.61	V	QP
826.3700	44.76	-10.51	34.25	46.00	-11.75	V	QP
871.9600	42.03	-10.24	31.79	46.00	-14.21	V	QP
98.8700	54.43	-23.80	30.63	43.50	-12.87	H	QP
125.0600	51.90	-20.94	30.96	43.50	-12.54	H	QP
375.3200	44.30	-16.82	27.48	46.00	-18.52	H	QP
500.4500	41.64	-14.35	27.29	46.00	-18.71	H	QP
649.8300	40.84	-12.52	28.32	46.00	-17.68	H	QP
960.2300	45.68	-8.69	36.99	54.00	-17.01	H	QP

Pre-scan all mode and recorded the worst case results in this report (802.11a (Low Mid)).

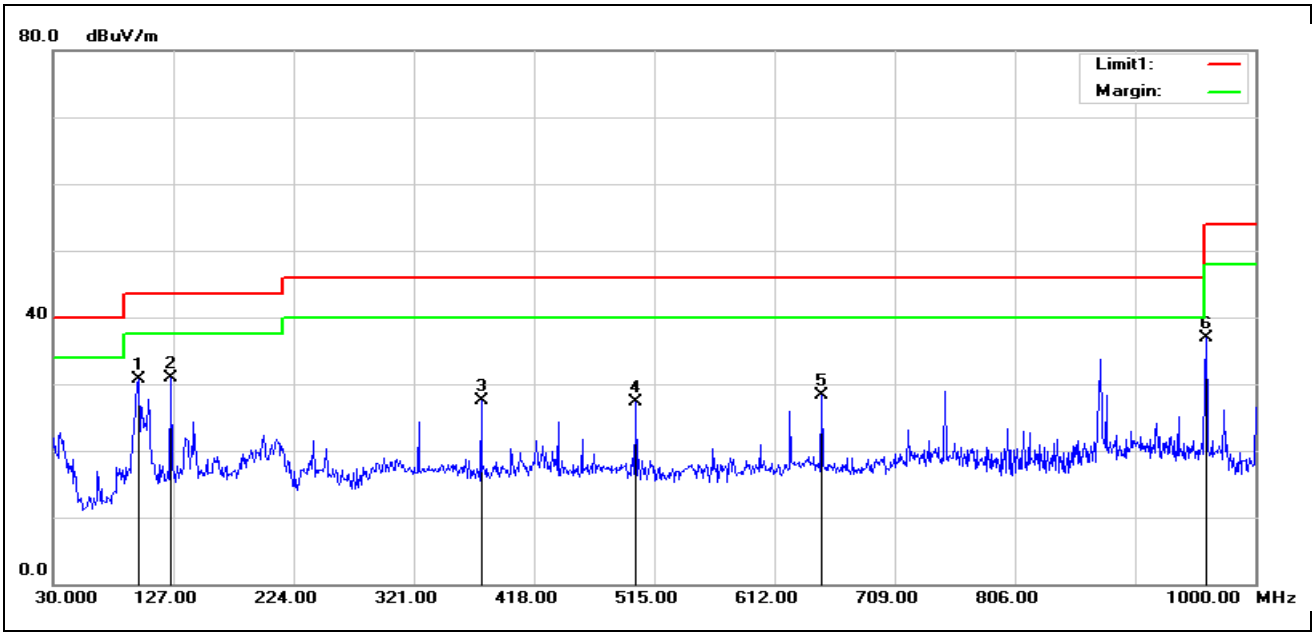
Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

Vertical



Horizontal



Above 1 GHz

1GHz~6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:**August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1300.000	50.71	-7.42	43.29	74.00	-30.71	V	peak
1760.000	45.30	-6.36	38.94	74.00	-35.06	V	peak
1920.000	54.39	-5.51	48.88	74.00	-25.12	V	peak
2065.000	47.44	-4.64	42.80	74.00	-31.20	V	peak
2500.000	52.56	-2.26	50.30	74.00	-23.70	V	peak
3230.000	44.30	-0.97	43.33	74.00	-30.67	V	peak
1300.000	54.01	-7.42	46.59	74.00	-27.41	H	Peak
1455.000	55.43	-6.96	48.47	74.00	-25.53	H	Peak
1920.000	54.86	-5.51	49.35	74.00	-24.65	H	Peak
2380.000	49.23	-2.92	46.31	74.00	-27.69	H	peak
2500.000	51.48	-2.26	49.22	74.00	-24.78	H	peak
2585.000	53.23	-2.11	51.12	74.00	-22.88	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Above 6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7536.000	32.03	8.75	40.78	74.00	-33.22	V	peak
8148.000	32.20	9.57	41.77	74.00	-32.23	V	peak
9336.000	31.50	10.07	41.57	74.00	-32.43	V	peak
10500.000	30.81	13.53	44.34	74.00	-29.66	V	peak
11304.000	31.37	14.95	46.32	74.00	-27.68	V	peak
12060.000	31.16	14.84	46.00	74.00	-28.00	V	peak
7668.000	31.99	9.00	40.99	74.00	-33.01	H	Peak
7956.000	32.45	9.56	42.01	74.00	-31.99	H	Peak
8568.000	31.92	9.34	41.26	74.00	-32.74	H	Peak
9564.000	31.18	10.72	41.90	74.00	-32.10	H	peak
10260.000	30.71	12.79	43.50	74.00	-30.50	H	peak
11256.000	31.75	14.97	46.72	74.00	-27.28	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7044.000	31.76	7.79	39.55	74.00	-34.45	V	peak
7740.000	31.80	9.14	40.94	74.00	-33.06	V	peak
7968.000	31.78	9.59	41.37	74.00	-32.63	V	peak
8664.000	31.34	9.28	40.62	74.00	-33.38	V	peak
9660.000	30.47	11.00	41.47	74.00	-32.53	V	peak
10236.000	30.55	12.71	43.26	74.00	-30.74	V	peak
7296.000	31.29	8.28	39.57	74.00	-34.43	H	Peak
7692.000	31.71	9.05	40.76	74.00	-33.24	H	Peak
8100.000	31.37	9.60	40.97	74.00	-33.03	H	Peak
9000.000	31.35	9.10	40.45	74.00	-33.55	H	peak
9912.000	30.72	11.73	42.45	74.00	-31.55	H	peak
10128.000	30.38	12.38	42.76	74.00	-31.24	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7236.000	31.49	8.16	39.65	74.00	-34.35	V	peak
7956.000	31.58	9.56	41.14	74.00	-32.86	V	peak
8376.000	31.67	9.44	41.11	74.00	-32.89	V	peak
9084.000	31.08	9.34	40.42	74.00	-33.58	V	peak
9588.000	30.50	10.79	41.29	74.00	-32.71	V	peak
10464.000	29.57	13.42	42.99	74.00	-31.01	V	peak
6744.000	32.17	7.29	39.46	74.00	-34.54	H	Peak
7308.000	31.31	8.30	39.61	74.00	-34.39	H	Peak
7512.000	31.20	8.70	39.90	74.00	-34.10	H	Peak
8160.000	31.53	9.56	41.09	74.00	-32.91	H	peak
8988.000	32.15	9.11	41.26	74.00	-32.74	H	peak
9816.000	30.22	11.45	41.67	74.00	-32.33	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5745MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6636.000	32.02	7.11	39.13	74.00	-34.87	V	peak
6972.000	31.76	7.65	39.41	74.00	-34.59	V	peak
7488.000	31.87	8.65	40.52	74.00	-33.48	V	peak
7680.000	31.70	9.03	40.73	74.00	-33.27	V	peak
8376.000	31.92	9.44	41.36	74.00	-32.64	V	peak
9276.000	31.09	9.89	40.98	74.00	-33.02	V	peak
6828.000	31.81	7.42	39.23	74.00	-34.77	H	Peak
7692.000	32.12	9.05	41.17	74.00	-32.83	H	Peak
8040.000	31.84	9.63	41.47	74.00	-32.53	H	Peak
8988.000	31.31	9.11	40.42	74.00	-33.58	H	peak
9624.000	30.50	10.90	41.40	74.00	-32.60	H	peak
10032.000	30.89	12.08	42.97	74.00	-31.03	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7080.000	32.02	7.86	39.88	74.00	-34.12	V	peak
7356.000	31.80	8.39	40.19	74.00	-33.81	V	peak
8064.000	31.36	9.61	40.97	74.00	-33.03	V	peak
8976.000	31.20	9.11	40.31	74.00	-33.69	V	peak
9432.000	30.61	10.34	40.95	74.00	-33.05	V	peak
9816.000	30.84	11.45	42.29	74.00	-31.71	V	peak
6936.000	31.95	7.60	39.55	74.00	-34.45	H	Peak
7692.000	31.34	9.05	40.39	74.00	-33.61	H	Peak
7980.000	31.62	9.61	41.23	74.00	-32.77	H	Peak
8112.000	31.64	9.59	41.23	74.00	-32.77	H	peak
9048.000	31.27	9.24	40.51	74.00	-33.49	H	peak
9432.000	31.06	10.34	41.40	74.00	-32.60	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6348.000	32.03	6.64	38.67	74.00	-35.33	V	peak
6780.000	31.82	7.34	39.16	74.00	-34.84	V	peak
7380.000	31.18	8.44	39.62	74.00	-34.38	V	peak
7548.000	31.56	8.77	40.33	74.00	-33.67	V	peak
8016.000	31.84	9.64	41.48	74.00	-32.52	V	peak
8304.000	32.12	9.48	41.60	74.00	-32.40	V	peak
6780.000	31.85	7.34	39.19	74.00	-34.81	H	Peak
7044.000	31.56	7.79	39.35	74.00	-34.65	H	Peak
7656.000	31.58	8.98	40.56	74.00	-33.44	H	Peak
8088.000	32.03	9.60	41.63	74.00	-32.37	H	peak
8400.000	31.12	9.43	40.55	74.00	-33.45	H	peak
9096.000	30.99	9.38	40.37	74.00	-33.63	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6792.000	31.75	7.36	39.11	74.00	-34.89	V	peak
7440.000	31.35	8.56	39.91	74.00	-34.09	V	peak
7656.000	32.30	8.98	41.28	74.00	-32.72	V	peak
8136.000	31.59	9.58	41.17	74.00	-32.83	V	peak
8556.000	31.47	9.34	40.81	74.00	-33.19	V	peak
9600.000	31.11	10.83	41.94	74.00	-32.06	V	peak
6864.000	32.02	7.48	39.50	74.00	-34.50	H	Peak
7248.000	31.96	8.18	40.14	74.00	-33.86	H	Peak
7620.000	31.69	8.91	40.60	74.00	-33.40	H	Peak
8004.000	32.21	9.65	41.86	74.00	-32.14	H	peak
8940.000	31.42	9.13	40.55	74.00	-33.45	H	peak
9444.000	30.58	10.38	40.96	74.00	-33.04	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range s*
5. *hown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
6. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
7. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7212.000	31.69	8.11	39.80	74.00	-34.20	V	peak
7740.000	32.58	9.14	41.72	74.00	-32.28	V	peak
8016.000	31.85	9.64	41.49	74.00	-32.51	V	peak
8376.000	31.88	9.44	41.32	74.00	-32.68	V	peak
9444.000	30.40	10.38	40.78	74.00	-33.22	V	peak
10224.000	30.72	12.67	43.39	74.00	-30.61	V	peak
6288.000	31.91	6.55	38.46	74.00	-35.54	H	Peak
7032.000	31.01	7.76	38.77	74.00	-35.23	H	Peak
7668.000	31.57	9.00	40.57	74.00	-33.43	H	Peak
8148.000	31.56	9.57	41.13	74.00	-32.87	H	peak
8328.000	31.19	9.47	40.66	74.00	-33.34	H	peak
9384.000	30.81	10.21	41.02	74.00	-32.98	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6888.000	31.91	7.52	39.43	74.00	-34.57	V	peak
7212.000	31.69	8.11	39.80	74.00	-34.20	V	peak
7740.000	32.58	9.14	41.72	74.00	-32.28	V	peak
8016.000	31.85	9.64	41.49	74.00	-32.51	V	peak
8424.000	31.33	9.42	40.75	74.00	-33.25	V	peak
9444.000	30.40	10.38	40.78	74.00	-33.22	V	peak
6840.000	31.53	7.44	38.97	74.00	-35.03	H	Peak
7680.000	31.84	9.03	40.87	74.00	-33.13	H	Peak
8628.000	31.67	9.30	40.97	74.00	-33.03	H	Peak
8976.000	30.91	9.11	40.02	74.00	-33.98	H	peak
9816.000	30.69	11.45	42.14	74.00	-31.86	H	peak
10860.000	30.03	14.65	44.68	74.00	-29.32	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m)*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6540.000	31.94	6.95	38.89	74.00	-35.11	V	peak
6996.000	32.08	7.69	39.77	74.00	-34.23	V	peak
7980.000	32.45	9.61	42.06	74.00	-31.94	V	peak
8448.000	31.55	9.40	40.95	74.00	-33.05	V	peak
9432.000	30.71	10.34	41.05	74.00	-32.95	V	peak
10728.000	30.10	14.24	44.34	74.00	-29.66	V	peak
6132.000	31.95	6.29	38.24	74.00	-35.76	H	Peak
6744.000	31.98	7.29	39.27	74.00	-34.73	H	Peak
7572.000	32.07	8.82	40.89	74.00	-33.11	H	Peak
8148.000	31.63	9.57	41.20	74.00	-32.80	H	peak
9348.000	30.43	10.10	40.53	74.00	-33.47	H	peak
9888.000	30.50	11.66	42.16	74.00	-31.84	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7356.000	31.42	8.39	39.81	74.00	-34.19	V	peak
7836.000	31.50	9.33	40.83	74.00	-33.17	V	peak
8376.000	32.57	9.44	42.01	74.00	-31.99	V	peak
8988.000	31.34	9.11	40.45	74.00	-33.55	V	peak
9372.000	30.67	10.17	40.84	74.00	-33.16	V	peak
10872.000	29.59	14.68	44.27	74.00	-29.73	V	peak
6540.000	31.72	6.95	38.67	74.00	-35.33	H	Peak
6780.000	31.71	7.34	39.05	74.00	-34.95	H	Peak
7320.000	31.88	8.32	40.20	74.00	-33.80	H	Peak
7620.000	31.89	8.91	40.80	74.00	-33.20	H	peak
8136.000	31.88	9.58	41.46	74.00	-32.54	H	peak
9000.000	31.62	9.10	40.72	74.00	-33.28	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6600.000	32.38	7.05	39.43	74.00	-34.57	V	peak
7224.000	31.01	8.14	39.15	74.00	-34.85	V	peak
7704.000	31.29	9.07	40.36	74.00	-33.64	V	peak
8424.000	31.33	9.42	40.75	74.00	-33.25	V	peak
9432.000	30.45	10.34	40.79	74.00	-33.21	V	peak
10020.000	30.61	12.04	42.65	74.00	-31.35	V	peak
6840.000	32.16	7.44	39.60	74.00	-34.40	H	Peak
7728.000	31.46	9.12	40.58	74.00	-33.42	H	Peak
8148.000	31.67	9.57	41.24	74.00	-32.76	H	Peak
8316.000	31.32	9.48	40.80	74.00	-33.20	H	peak
8940.000	30.59	9.13	39.72	74.00	-34.28	H	peak
10116.000	31.53	12.34	43.87	74.00	-30.13	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7116.000	31.40	7.93	39.33	74.00	-34.67	V	peak
7668.000	30.99	9.00	39.99	74.00	-34.01	V	peak
8400.000	31.89	9.43	41.32	74.00	-32.68	V	peak
9000.000	31.48	9.10	40.58	74.00	-33.42	V	peak
9432.000	30.33	10.34	40.67	74.00	-33.33	V	peak
10092.000	30.34	12.27	42.61	74.00	-31.39	V	peak
6348.000	32.04	6.64	38.68	74.00	-35.32	H	Peak
6792.000	32.42	7.36	39.78	74.00	-34.22	H	Peak
7428.000	31.62	8.53	40.15	74.00	-33.85	H	Peak
7668.000	31.19	9.00	40.19	74.00	-33.81	H	peak
8220.000	30.92	9.53	40.45	74.00	-33.55	H	peak
9000.000	31.44	9.10	40.54	74.00	-33.46	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6924.000	31.90	7.58	39.48	74.00	-34.52	V	peak
7620.000	31.41	8.91	40.32	74.00	-33.68	V	peak
7872.000	31.39	9.40	40.79	74.00	-33.21	V	peak
8364.000	31.30	9.45	40.75	74.00	-33.25	V	peak
9420.000	31.17	10.31	41.48	74.00	-32.52	V	peak
10584.000	30.66	13.79	44.45	74.00	-29.55	V	peak
7272.000	32.14	8.23	40.37	74.00	-33.63	H	Peak
7788.000	32.07	9.24	41.31	74.00	-32.69	H	Peak
8616.000	31.95	9.31	41.26	74.00	-32.74	H	Peak
9312.000	30.59	10.00	40.59	74.00	-33.41	H	peak
9564.000	30.66	10.72	41.38	74.00	-32.62	H	peak
10632.000	30.67	13.94	44.61	74.00	-29.39	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7248.000	31.58	8.18	39.76	74.00	-34.24	V	peak
7692.000	31.87	9.05	40.92	74.00	-33.08	V	peak
8124.000	31.96	9.58	41.54	74.00	-32.46	V	peak
8400.000	31.34	9.43	40.77	74.00	-33.23	V	peak
8664.000	31.45	9.28	40.73	74.00	-33.27	V	peak
9444.000	30.81	10.38	41.19	74.00	-32.81	V	peak
6540.000	31.94	6.95	38.89	74.00	-35.11	H	Peak
7260.000	31.54	8.21	39.75	74.00	-34.25	H	Peak
7608.000	31.19	8.89	40.08	74.00	-33.92	H	Peak
8064.000	31.75	9.61	41.36	74.00	-32.64	H	peak
8448.000	30.94	9.40	40.34	74.00	-33.66	H	peak
9372.000	30.77	10.17	40.94	74.00	-33.06	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6804.000	31.82	7.38	39.20	74.00	-34.80	V	peak
7308.000	31.23	8.30	39.53	74.00	-34.47	V	peak
7992.000	31.42	9.63	41.05	74.00	-32.95	V	peak
8532.000	31.23	9.36	40.59	74.00	-33.41	V	peak
9048.000	31.31	9.24	40.55	74.00	-33.45	V	peak
9624.000	30.31	10.90	41.21	74.00	-32.79	V	peak
6372.000	32.37	6.68	39.05	74.00	-34.95	H	Peak
7176.000	31.86	8.04	39.90	74.00	-34.10	H	Peak
7656.000	32.07	8.98	41.05	74.00	-32.95	H	Peak
8112.000	31.78	9.59	41.37	74.00	-32.63	H	peak
8940.000	31.73	9.13	40.86	74.00	-33.14	H	peak
9948.000	30.28	11.83	42.11	74.00	-31.89	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802. 11ac 80 / 5210MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6456.000	31.81	6.82	38.63	74.00	-35.37	V	peak
6804.000	32.39	7.38	39.77	74.00	-34.23	V	peak
7692.000	31.48	9.05	40.53	74.00	-33.47	V	peak
8040.000	31.75	9.63	41.38	74.00	-32.62	V	peak
9012.000	31.57	9.13	40.70	74.00	-33.30	V	peak
9900.000	30.58	11.69	42.27	74.00	-31.73	V	peak
6528.000	31.78	6.94	38.72	74.00	-35.28	H	Peak
7428.000	31.60	8.53	40.13	74.00	-33.87	H	Peak
8136.000	31.50	9.58	41.08	74.00	-32.92	H	Peak
8352.000	31.27	9.46	40.73	74.00	-33.27	H	peak
9432.000	30.82	10.34	41.16	74.00	-32.84	H	peak
10056.000	30.59	12.15	42.74	74.00	-31.26	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11ac 80 / 5775MHz **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7224.000	31.55	8.14	39.69	74.00	-34.31	V	peak
7992.000	30.92	9.63	40.55	74.00	-33.45	V	peak
9048.000	31.42	9.24	40.66	74.00	-33.34	V	peak
9396.000	31.02	10.24	41.26	74.00	-32.74	V	peak
10020.000	30.54	12.04	42.58	74.00	-31.42	V	peak
10656.000	30.39	14.01	44.40	74.00	-29.60	V	peak
6132.000	32.01	6.29	38.30	74.00	-35.70	H	Peak
7068.000	31.65	7.83	39.48	74.00	-34.52	H	Peak
7716.000	31.65	9.10	40.75	74.00	-33.25	H	Peak
7908.000	31.61	9.47	41.08	74.00	-32.92	H	peak
8376.000	31.12	9.44	40.56	74.00	-33.44	H	peak
9024.000	31.22	9.17	40.39	74.00	-33.61	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

GL-AR750S-EXT

Below 1 GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 17, 2018

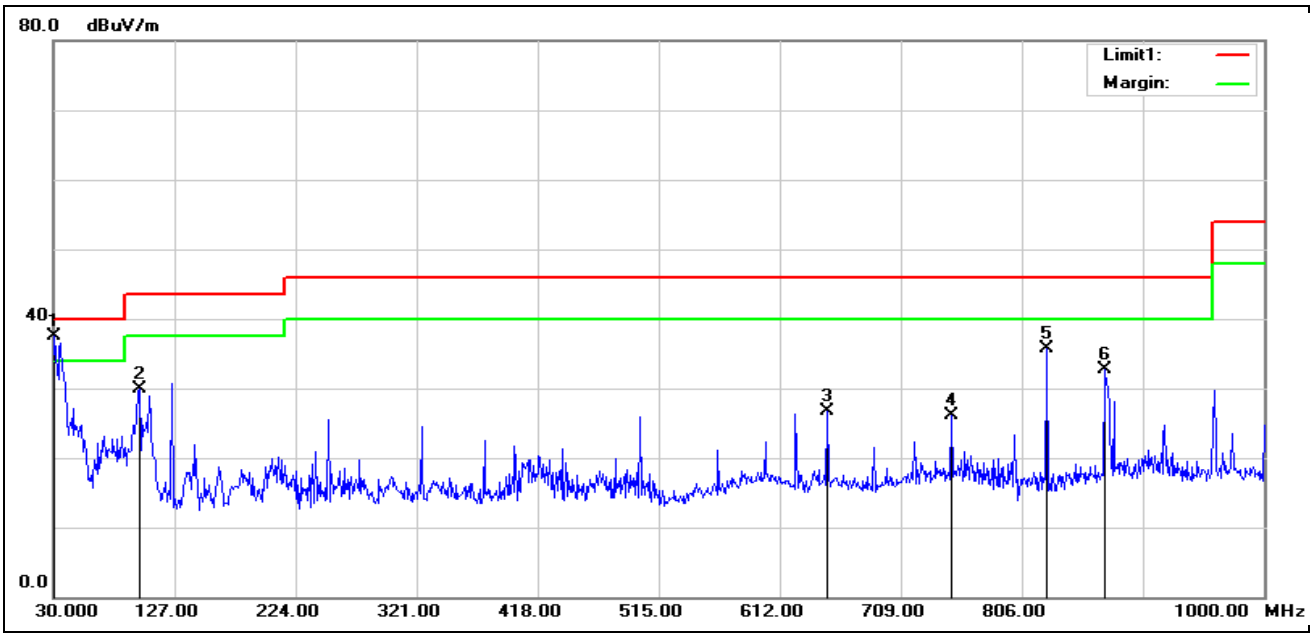
Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
30.9700	49.76	-12.22	37.54	40.00	-2.46	V	QP
98.8700	53.75	-23.80	29.95	43.50	-13.55	V	QP
649.8300	39.15	-12.52	26.63	46.00	-19.37	V	QP
749.7400	37.30	-11.19	26.11	46.00	-19.89	V	QP
826.3700	46.26	-10.51	35.75	46.00	-10.25	V	QP
871.9600	43.03	-10.24	32.79	46.00	-13.21	V	QP
98.8700	55.93	-23.80	32.13	43.50	-11.37	H	QP
125.0600	53.40	-20.94	32.46	43.50	-11.04	H	QP
375.3200	44.30	-16.82	27.48	46.00	-18.52	H	QP
500.4500	43.64	-14.35	29.29	46.00	-16.71	H	QP
649.8300	41.84	-12.52	29.32	46.00	-16.68	H	QP
874.8700	44.31	-10.14	34.17	46.00	-11.83	H	QP

Pre-scan all mode and recorded the worst case results in this report (802.11a (Low Mid)).

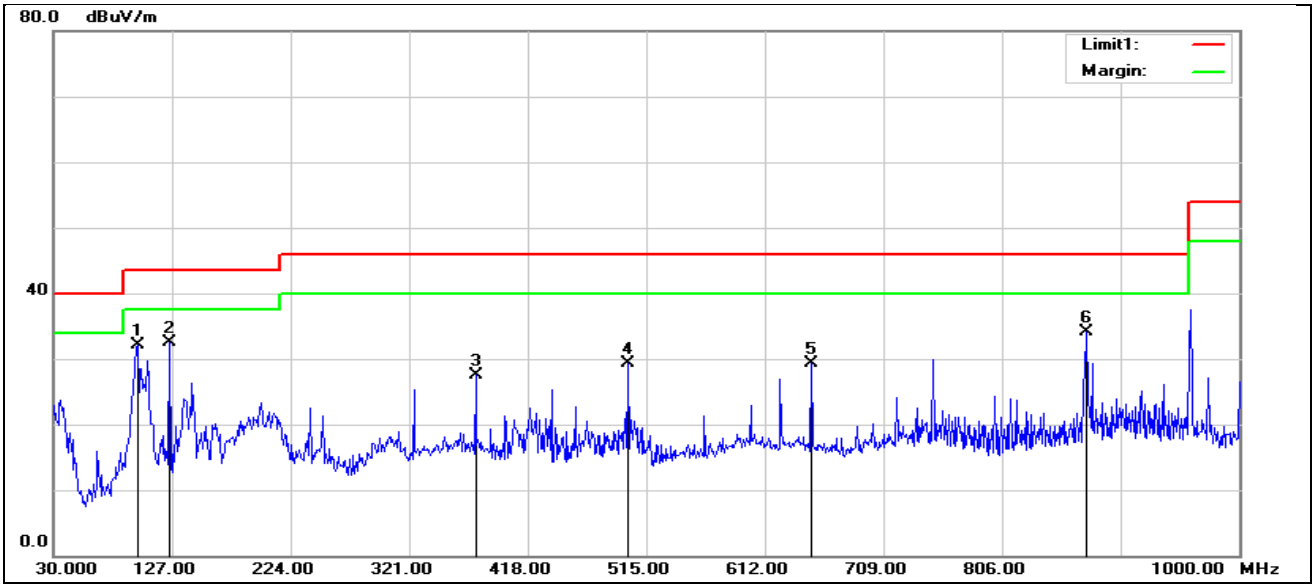
Remark:

1. *No emission found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)*
2. *Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using peak/quasi-peak detector mode.*
3. *Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Quasi-peak limit (dBuV/m).*

Vertical



Horizontal



Above 1 GHz

1GHz~6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1300.000	50.21	-7.42	42.79	74.00	-31.21	V	peak
1920.000	52.89	-5.51	47.38	74.00	-26.62	V	peak
2500.000	51.06	-2.26	48.80	74.00	-25.20	V	peak
2585.000	49.67	-2.11	47.56	74.00	-26.44	V	peak
3230.000	44.80	-0.97	43.83	74.00	-30.17	V	peak
3895.000	42.36	1.15	43.51	74.00	-30.49	V	peak
1300.000	50.21	-7.42	42.79	74.00	-31.21	H	Peak
1920.000	52.89	-5.51	47.38	74.00	-26.62	H	Peak
2500.000	51.06	-2.26	48.80	74.00	-25.20	H	Peak
2585.000	49.67	-2.11	47.56	74.00	-26.44	H	peak
3230.000	44.80	-0.97	43.83	74.00	-30.17	H	peak
3895.000	42.36	1.15	43.51	74.00	-30.49	H	peak

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
3. *Average test would be performed if the peak result were greater than the average limit.*
4. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
5. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
6. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Above 6GHz

Test Mode: TX / IEEE 802.11a / 5180MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6780.000	32.11	7.34	39.45	74.00	-34.55	V	peak
7332.000	31.49	8.35	39.84	74.00	-34.16	V	peak
8316.000	31.64	9.48	41.12	74.00	-32.88	V	peak
10044.000	30.91	12.12	43.03	74.00	-30.97	V	peak
11160.000	32.12	15.01	47.13	74.00	-26.87	V	peak
11520.000	31.97	14.85	46.82	74.00	-27.18	V	peak
6732.000	32.69	7.27	39.96	74.00	-34.04	H	Peak
7320.000	32.05	8.32	40.37	74.00	-33.63	H	Peak
8124.000	32.38	9.58	41.96	74.00	-32.04	H	Peak
10032.000	31.21	12.08	43.29	74.00	-30.71	H	peak
11148.000	31.94	15.01	46.95	74.00	-27.05	H	peak
12396.000	30.45	15.95	46.40	74.00	-27.60	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5200MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7272.000	32.14	8.23	40.37	74.00	-33.63	V	peak
8124.000	32.29	9.58	41.87	74.00	-32.13	V	peak
9612.000	30.87	10.86	41.73	74.00	-32.27	V	peak
11172.000	31.81	15.00	46.81	74.00	-27.19	V	peak
11496.000	31.51	14.86	46.37	74.00	-27.63	V	peak
12552.000	30.19	16.47	46.66	74.00	-27.34	V	peak
7296.000	32.39	8.28	40.67	74.00	-33.33	H	Peak
8028.000	31.89	9.63	41.52	74.00	-32.48	H	Peak
9432.000	31.42	10.34	41.76	74.00	-32.24	H	Peak
10596.000	31.28	13.83	45.11	74.00	-28.89	H	peak
11136.000	31.63	15.02	46.65	74.00	-27.35	H	peak
12564.000	29.83	16.51	46.34	74.00	-27.66	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5240MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7188.000	31.69	8.07	39.76	74.00	-34.24	V	peak
8088.000	32.35	9.60	41.95	74.00	-32.05	V	peak
9432.000	31.33	10.34	41.67	74.00	-32.33	V	peak
10704.000	31.00	14.16	45.16	74.00	-28.84	V	peak
11160.000	31.93	15.01	46.94	74.00	-27.06	V	peak
12672.000	29.96	16.86	46.82	74.00	-27.18	V	peak
6840.000	32.06	7.44	39.50	74.00	-34.50	H	Peak
7608.000	31.71	8.89	40.60	74.00	-33.40	H	Peak
8124.000	31.84	9.58	41.42	74.00	-32.58	H	Peak
9420.000	31.29	10.31	41.60	74.00	-32.40	H	peak
11136.000	32.21	15.02	47.23	74.00	-26.77	H	peak
12612.000	29.83	16.67	46.50	74.00	-27.50	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5745MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6876.000	32.47	7.50	39.97	74.00	-34.03	V	peak
7656.000	32.56	8.98	41.54	74.00	-32.46	V	peak
8388.000	31.85	9.44	41.29	74.00	-32.71	V	peak
9612.000	30.81	10.86	41.67	74.00	-32.33	V	peak
11496.000	33.68	14.86	48.54	74.00	-25.46	V	peak
12696.000	29.97	16.94	46.91	74.00	-27.09	V	peak
7332.000	31.66	8.35	40.01	74.00	-33.99	H	Peak
8148.000	32.19	9.57	41.76	74.00	-32.24	H	Peak
9240.000	30.86	9.79	40.65	74.00	-33.35	H	Peak
9840.000	30.45	11.52	41.97	74.00	-32.03	H	peak
10668.000	31.16	14.05	45.21	74.00	-28.79	H	peak
11484.000	32.12	14.87	46.99	74.00	-27.01	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5785MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7716.000	32.16	9.10	41.26	74.00	-32.74	V	peak
8316.000	31.90	9.48	41.38	74.00	-32.62	V	peak
9444.000	31.16	10.38	41.54	74.00	-32.46	V	peak
10056.000	31.05	12.15	43.20	74.00	-30.80	V	peak
11568.000	36.18	14.83	51.01	74.00	-22.99	V	peak
12924.000	29.76	17.70	47.46	74.00	-26.54	V	peak
7416.000	31.69	8.51	40.20	74.00	-33.80	H	Peak
8028.000	32.04	9.63	41.67	74.00	-32.33	H	Peak
9420.000	30.87	10.31	41.18	74.00	-32.82	H	Peak
10560.000	31.15	13.72	44.87	74.00	-29.13	H	peak
11172.000	31.58	15.00	46.58	74.00	-27.42	H	peak
13068.000	29.82	18.13	47.95	74.00	-26.05	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11a / 5825MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6804.000	32.43	7.38	39.81	74.00	-34.19	V	peak
7716.000	32.74	9.10	41.84	74.00	-32.16	V	peak
9012.000	31.73	9.13	40.86	74.00	-33.14	V	peak
10104.000	30.92	12.30	43.22	74.00	-30.78	V	peak
10632.000	31.04	13.94	44.98	74.00	-29.02	V	peak
11568.000	34.65	14.83	49.48	74.00	-24.52	V	peak
6936.000	31.99	7.60	39.59	74.00	-34.41	H	Peak
7980.000	31.94	9.61	41.55	74.00	-32.45	H	Peak
8412.000	31.82	9.42	41.24	74.00	-32.76	H	Peak
9612.000	30.83	10.86	41.69	74.00	-32.31	H	peak
10740.000	30.86	14.27	45.13	74.00	-28.87	H	peak
11568.000	32.44	14.83	47.27	74.00	-26.73	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5180MHz **Tested by:** Sam Zeng /(CH Low)

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7056.000	31.91	7.81	39.72	74.00	-34.28	V	peak
8148.000	31.57	9.57	41.14	74.00	-32.86	V	peak
9384.000	30.98	10.21	41.19	74.00	-32.81	V	peak
10356.000	31.65	13.08	44.73	74.00	-29.27	V	peak
11280.000	31.86	14.96	46.82	74.00	-27.18	V	peak
12624.000	30.30	16.71	47.01	74.00	-26.99	V	peak
7128.000	32.06	7.95	40.01	74.00	-33.99	H	Peak
8328.000	31.81	9.47	41.28	74.00	-32.72	H	Peak
9360.000	31.25	10.14	41.39	74.00	-32.61	H	Peak
10584.000	30.57	13.79	44.36	74.00	-29.64	H	peak
11136.000	31.63	15.02	46.65	74.00	-27.35	H	peak
12672.000	30.07	16.86	46.93	74.00	-27.07	H	peak

Remark:

8. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
9. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
10. *Average test would be performed if the peak result were greater than the average limit.*
11. *Data of measurement within this frequency range s*
12. *hown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
13. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
14. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5200MHz **Tested by:** Sam Zeng /(CH Mid)

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7068.000	31.85	7.83	39.68	74.00	-34.32	V	peak
8124.000	31.97	9.58	41.55	74.00	-32.45	V	peak
9408.000	31.30	10.28	41.58	74.00	-32.42	V	peak
11112.000	30.56	15.03	45.59	74.00	-28.41	V	peak
12528.000	29.96	16.39	46.35	74.00	-27.65	V	peak
13260.000	29.21	18.63	47.84	74.00	-26.16	V	peak
7308.000	32.07	8.30	40.37	74.00	-33.63	H	Peak
8160.000	31.94	9.56	41.50	74.00	-32.50	H	Peak
9588.000	30.96	10.79	41.75	74.00	-32.25	H	Peak
10740.000	31.14	14.27	45.41	74.00	-28.59	H	peak
11496.000	31.42	14.86	46.28	74.00	-27.72	H	peak
13056.000	29.37	18.10	47.47	74.00	-26.53	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5240MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7320.000	32.09	8.32	40.41	74.00	-33.59	V	peak
8052.000	32.12	9.62	41.74	74.00	-32.26	V	peak
9012.000	31.69	9.13	40.82	74.00	-33.18	V	peak
10152.000	30.81	12.45	43.26	74.00	-30.74	V	peak
11388.000	31.53	14.91	46.44	74.00	-27.56	V	peak
12636.000	30.26	16.75	47.01	74.00	-26.99	V	peak
7152.000	32.24	8.00	40.24	74.00	-33.76	H	Peak
7956.000	31.89	9.56	41.45	74.00	-32.55	H	Peak
9624.000	31.07	10.90	41.97	74.00	-32.03	H	Peak
10212.000	30.82	12.64	43.46	74.00	-30.54	H	peak
11256.000	31.38	14.97	46.35	74.00	-27.65	H	peak
12036.000	30.95	14.76	45.71	74.00	-28.29	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m)*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5745MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7152.000	32.39	8.00	40.39	74.00	-33.61	V	peak
8124.000	31.77	9.58	41.35	74.00	-32.65	V	peak
9648.000	30.81	10.97	41.78	74.00	-32.22	V	peak
10776.000	30.89	14.39	45.28	74.00	-28.72	V	peak
11160.000	32.24	15.01	47.25	74.00	-26.75	V	peak
11496.000	32.91	14.86	47.77	74.00	-26.23	V	peak
6948.000	31.57	7.62	39.19	74.00	-34.81	H	Peak
8292.000	31.92	9.49	41.41	74.00	-32.59	H	Peak
9552.000	30.90	10.69	41.59	74.00	-32.41	H	Peak
10488.000	30.87	13.49	44.36	74.00	-29.64	H	peak
11136.000	32.10	15.02	47.12	74.00	-26.88	H	peak
12504.000	29.93	16.31	46.24	74.00	-27.76	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5785MHz /(CH Mid) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7284.000	32.08	8.25	40.33	74.00	-33.67	V	peak
8124.000	32.00	9.58	41.58	74.00	-32.42	V	peak
8472.000	31.68	9.39	41.07	74.00	-32.93	V	peak
10068.000	31.08	12.19	43.27	74.00	-30.73	V	peak
11160.000	31.76	15.01	46.77	74.00	-27.23	V	peak
11568.000	33.77	14.83	48.60	74.00	-25.40	V	peak
7188.000	31.96	8.07	40.03	74.00	-33.97	H	Peak
7908.000	31.99	9.47	41.46	74.00	-32.54	H	Peak
9036.000	31.88	9.20	41.08	74.00	-32.92	H	Peak
9660.000	30.84	11.00	41.84	74.00	-32.16	H	peak
11568.000	32.53	14.83	47.36	74.00	-26.64	H	peak
12708.000	29.73	16.98	46.71	74.00	-27.29	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 20 MHz / 5825MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6876.000	31.80	7.50	39.30	74.00	-34.70	V	peak
8160.000	31.89	9.56	41.45	74.00	-32.55	V	peak
9396.000	31.07	10.24	41.31	74.00	-32.69	V	peak
10656.000	31.29	14.01	45.30	74.00	-28.70	V	peak
11652.000	34.70	14.79	49.49	74.00	-24.51	V	peak
12576.000	30.45	16.55	47.00	74.00	-27.00	V	peak
7692.000	31.50	9.05	40.55	74.00	-33.45	H	Peak
8052.000	31.89	9.62	41.51	74.00	-32.49	H	Peak
9360.000	31.57	10.14	41.71	74.00	-32.29	H	Peak
10608.000	31.35	13.86	45.21	74.00	-28.79	H	peak
11184.000	31.82	15.00	46.82	74.00	-27.18	H	peak
12696.000	30.12	16.94	47.06	74.00	-26.94	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5190MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7224.000	32.12	8.14	40.26	74.00	-33.74	V	peak
8436.000	32.38	9.41	41.79	74.00	-32.21	V	peak
9768.000	30.52	11.31	41.83	74.00	-32.17	V	peak
10584.000	30.70	13.79	44.49	74.00	-29.51	V	peak
11196.000	31.90	14.99	46.89	74.00	-27.11	V	peak
12180.000	30.45	15.24	45.69	74.00	-28.31	V	peak
7236.000	32.64	8.16	40.80	74.00	-33.20	H	Peak
8580.000	31.67	9.33	41.00	74.00	-33.00	H	Peak
9756.000	30.65	11.28	41.93	74.00	-32.07	H	Peak
10596.000	30.91	13.83	44.74	74.00	-29.26	H	peak
11136.000	31.64	15.02	46.66	74.00	-27.34	H	peak
12360.000	30.96	15.83	46.79	74.00	-27.21	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5230MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
7068.000	31.95	7.83	39.78	74.00	-34.22	V	peak
8148.000	31.94	9.57	41.51	74.00	-32.49	V	peak
9336.000	31.44	10.07	41.51	74.00	-32.49	V	peak
10080.000	31.06	12.23	43.29	74.00	-30.71	V	peak
11160.000	31.58	15.01	46.59	74.00	-27.41	V	peak
12648.000	29.73	16.78	46.51	74.00	-27.49	V	peak
7380.000	31.63	8.44	40.07	74.00	-33.93	H	Peak
8100.000	32.27	9.60	41.87	74.00	-32.13	H	Peak
9060.000	31.60	9.27	40.87	74.00	-33.13	H	Peak
10452.000	30.41	13.38	43.79	74.00	-30.21	H	peak
11136.000	31.76	15.02	46.78	74.00	-27.22	H	peak
11952.000	31.19	14.66	45.85	74.00	-28.15	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5755MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6696.000	32.06	7.21	39.27	74.00	-34.73	V	peak
8376.000	32.62	9.44	42.06	74.00	-31.94	V	peak
9360.000	31.62	10.14	41.76	74.00	-32.24	V	peak
10452.000	30.37	13.38	43.75	74.00	-30.25	V	peak
11508.000	33.00	14.86	47.86	74.00	-26.14	V	peak
12672.000	30.02	16.86	46.88	74.00	-27.12	V	peak
6984.000	31.96	7.67	39.63	74.00	-34.37	H	Peak
8076.000	31.69	9.61	41.30	74.00	-32.70	H	Peak
9312.000	31.26	10.00	41.26	74.00	-32.74	H	Peak
9804.000	30.41	11.42	41.83	74.00	-32.17	H	peak
11136.000	31.41	15.02	46.43	74.00	-27.57	H	peak
12504.000	30.67	16.31	46.98	74.00	-27.02	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11n HT 40 MHz / 5795MHz /(CH High) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6732.000	32.38	7.27	39.65	74.00	-34.35	V	peak
7728.000	32.39	9.12	41.51	74.00	-32.49	V	peak
9384.000	31.47	10.21	41.68	74.00	-32.32	V	peak
10512.000	30.55	13.57	44.12	74.00	-29.88	V	peak
11592.000	32.69	14.82	47.51	74.00	-26.49	V	peak
13140.000	29.63	18.32	47.95	74.00	-26.05	V	peak
7644.000	31.99	8.96	40.95	74.00	-33.05	H	Peak
8184.000	31.94	9.55	41.49	74.00	-32.51	H	Peak
9384.000	31.53	10.21	41.74	74.00	-32.26	H	Peak
11136.000	31.23	15.02	46.25	74.00	-27.75	H	peak
12360.000	30.17	15.83	46.00	74.00	-28.00	H	peak
13452.000	29.03	19.14	48.17	74.00	-25.83	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802. 11ac 80 / 5210MHz /(CH Low) **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6708.000	31.92	7.23	39.15	74.00	-34.85	V	peak
7896.000	31.59	9.45	41.04	74.00	-32.96	V	peak
9024.000	31.40	9.17	40.57	74.00	-33.43	V	peak
10560.000	30.96	13.72	44.68	74.00	-29.32	V	peak
11148.000	31.72	15.01	46.73	74.00	-27.27	V	peak
12204.000	30.41	15.32	45.73	74.00	-28.27	V	peak
7476.000	31.73	8.63	40.36	74.00	-33.64	H	Peak
8436.000	31.53	9.41	40.94	74.00	-33.06	H	Peak
9720.000	30.63	11.17	41.80	74.00	-32.20	H	Peak
10236.000	30.92	12.71	43.63	74.00	-30.37	H	peak
11148.000	32.14	15.01	47.15	74.00	-26.85	H	peak
12516.000	29.86	16.35	46.21	74.00	-27.79	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

Test Mode: TX / IEEE 802.11ac 80 / 5775MHz **Tested by:** Sam Zeng

Ambient temperature: 24°C **Relative humidity:** 52% RH **Date:** August 6, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
6792.000	31.98	7.36	39.34	74.00	-34.66	V	peak
7956.000	31.98	9.56	41.54	74.00	-32.46	V	peak
9108.000	31.26	9.41	40.67	74.00	-33.33	V	peak
10656.000	30.68	14.01	44.69	74.00	-29.31	V	peak
11328.000	31.93	14.94	46.87	74.00	-27.13	V	peak
13020.000	29.81	18.00	47.81	74.00	-26.19	V	peak
6840.000	31.89	7.44	39.33	74.00	-34.67	H	Peak
7932.000	31.68	9.52	41.20	74.00	-32.80	H	Peak
9012.000	31.62	9.13	40.75	74.00	-33.25	H	Peak
10152.000	30.90	12.45	43.35	74.00	-30.65	H	peak
11208.000	31.83	14.99	46.82	74.00	-27.18	H	peak
12408.000	30.12	15.99	46.11	74.00	-27.89	H	peak

Remark:

7. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
8. *Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.*
9. *Average test would be performed if the peak result were greater than the average limit.*
10. *Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.*
11. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*
12. *Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).*

6.8 CONDUCTED UNDESIRABLE EMISSION

6.8.1 LIMIT

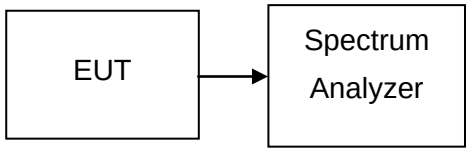
According to 15.407(b),

(1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) The provisions of §15.205 apply to intentional radiators operating under this section.

6.8.2 TEST CONFIGURATION



6.8.3 TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 1MHz. The video bandwidth is set to 3MHz. Peak detection measurements are compared to the average EIRP limit, adjusted for the maximum antenna gain. If necessary, additional average detection measurements are made.

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

6.8.4 TEST RESULTS

No non-compliance noted

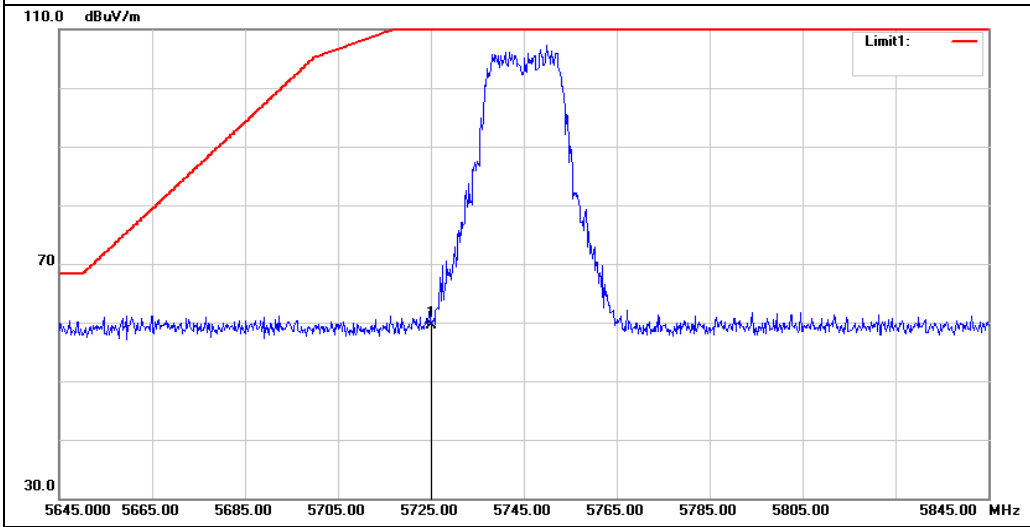
GL-AR750S

Test Plot

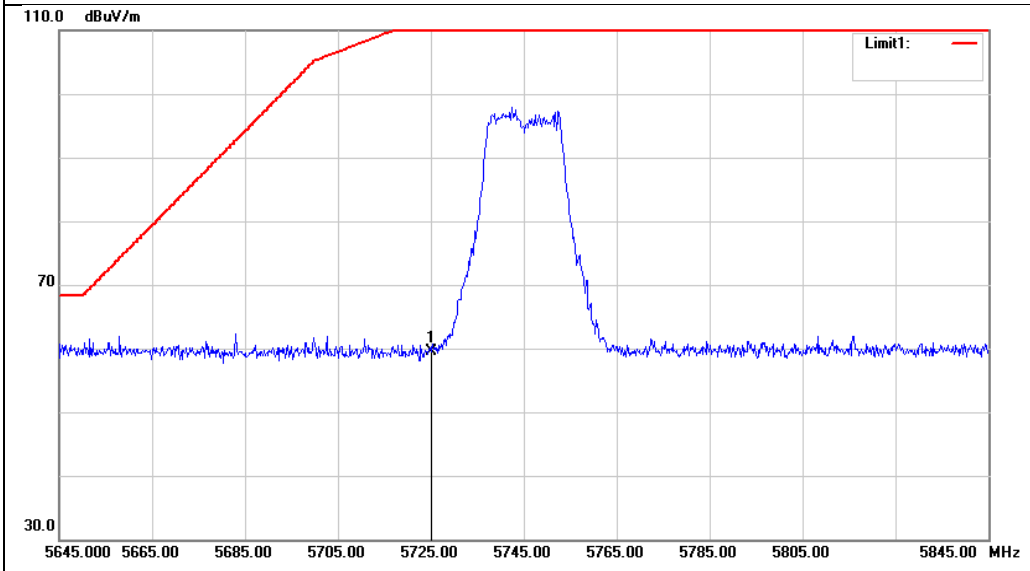
IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

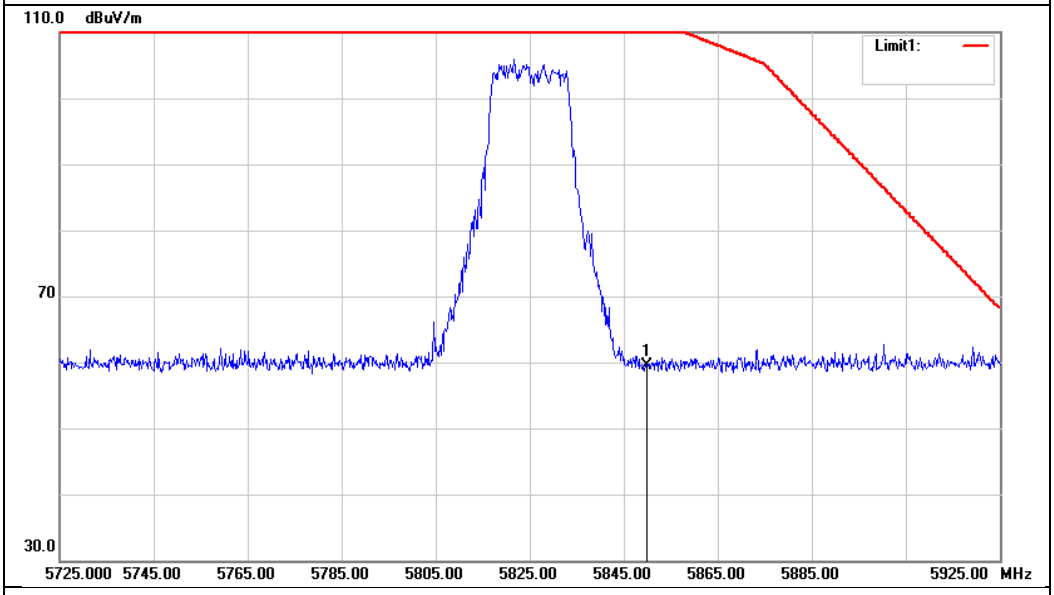


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	53.55	5.96	59.51	122.20	-62.69	Peak	Vertical
2	5725.000	53.60	5.96	59.56	122.20	-62.64	Peak	Horizontal

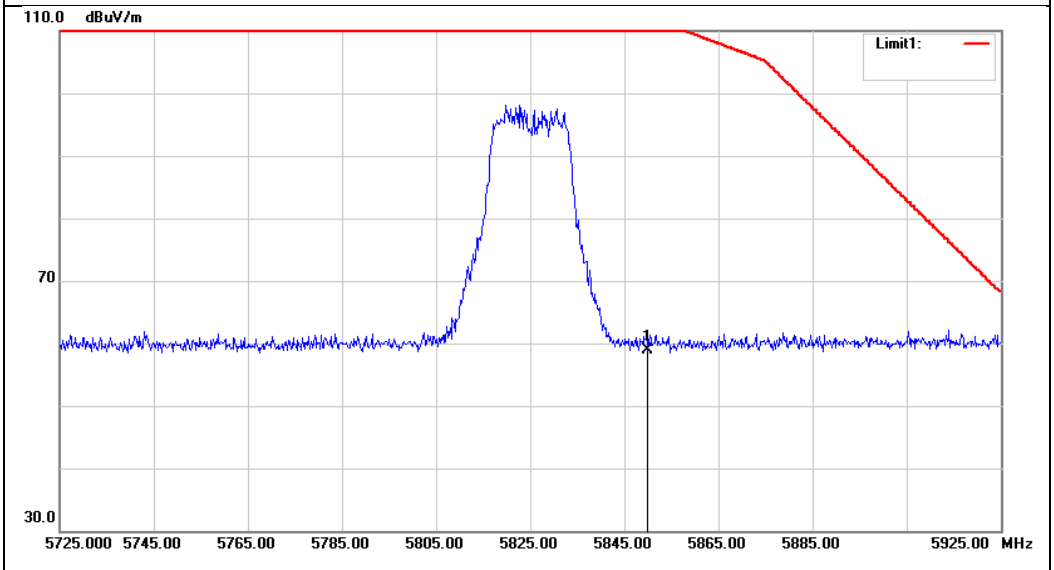
IEEE 802.11a mode / 5745 ~ 5825MHz

CH High

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

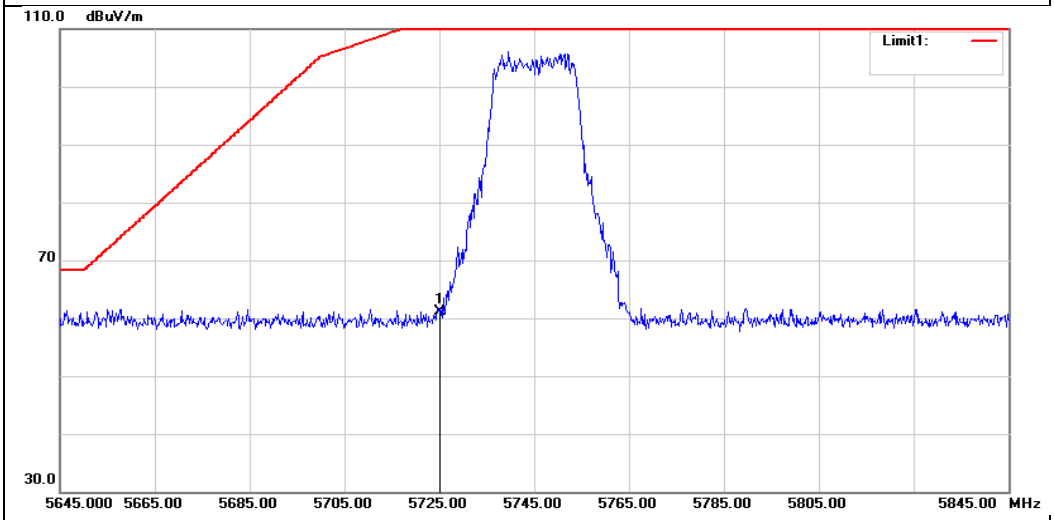


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	53.42	6.02	59.44	122.20	-62.76	Peak	Vertical
2	5850.000	52.89	6.02	58.91	122.20	-63.29	Peak	Horizontal

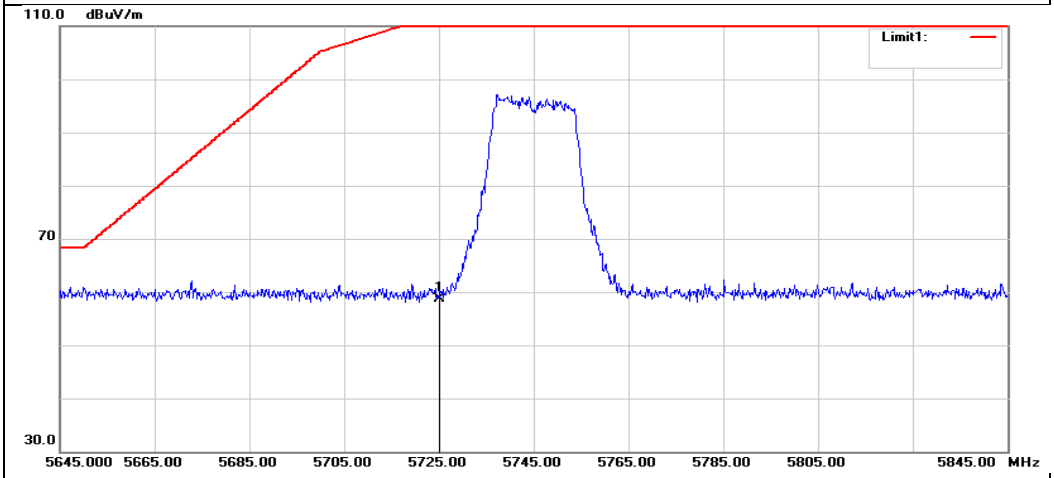
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

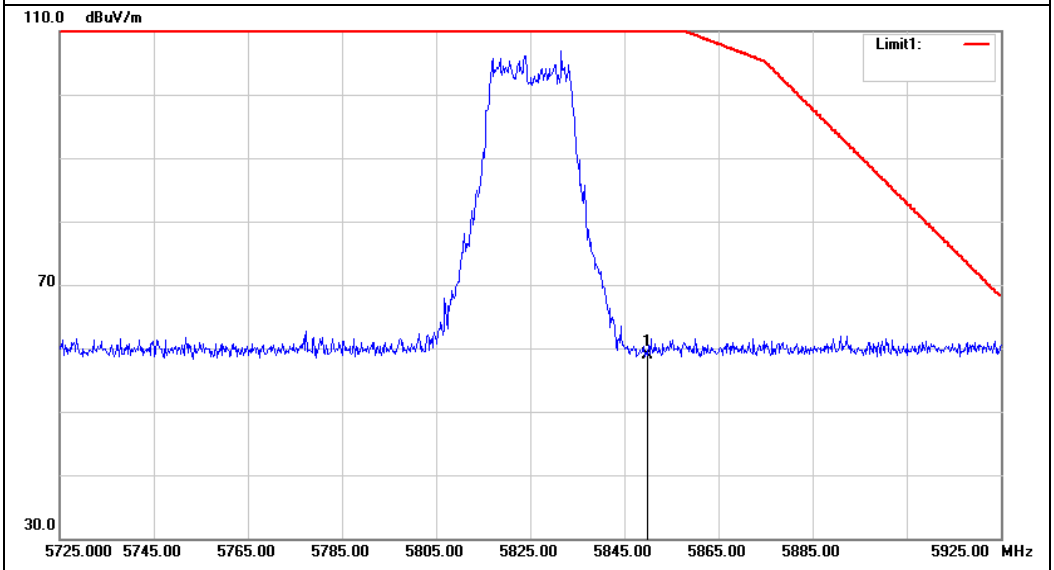


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	55.23	5.96	61.19	122.20	-61.01	Peak	Vertical
2	5725.000	52.81	5.96	58.77	122.20	-63.43	Peak	Horizontal

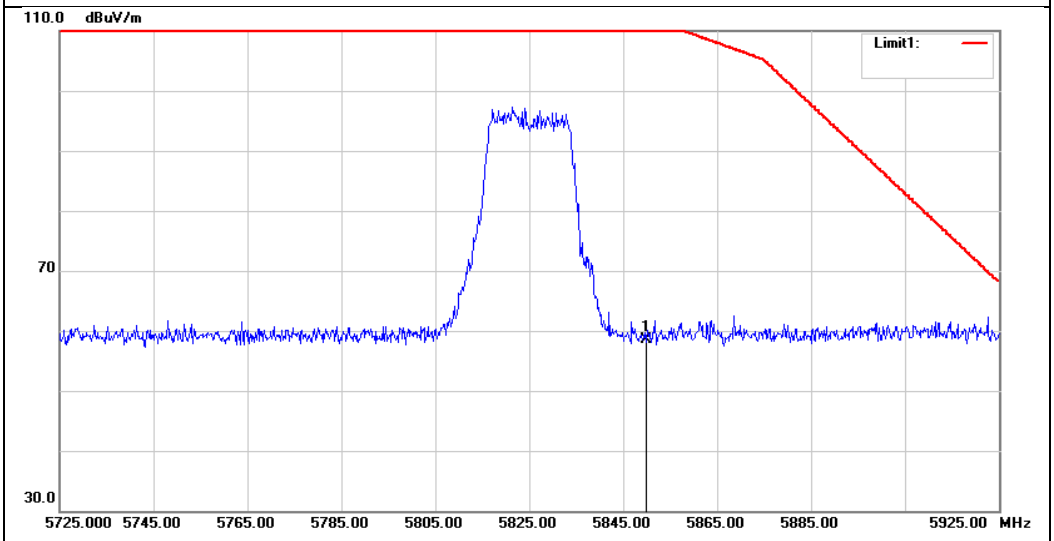
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH High

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

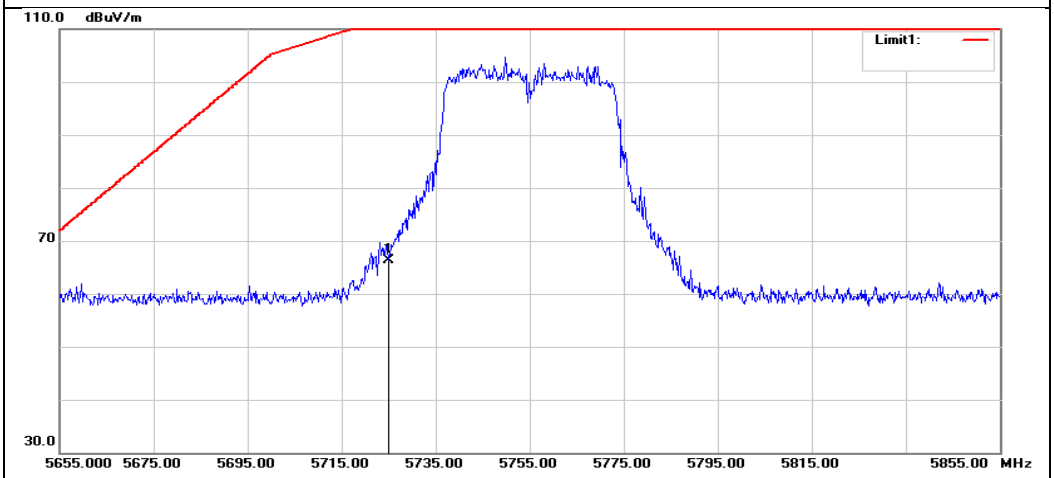


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	52.98	6.02	59.00	122.20	-63.20	Peak	Vertical
2	5850.000	52.55	6.02	58.57	122.20	-63.63	Peak	Horizontal

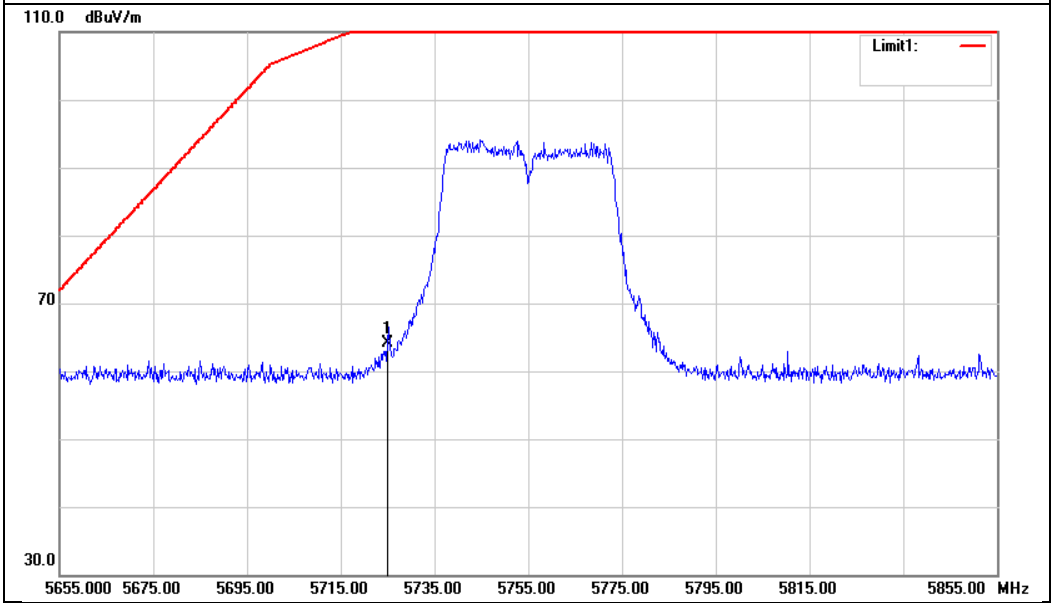
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

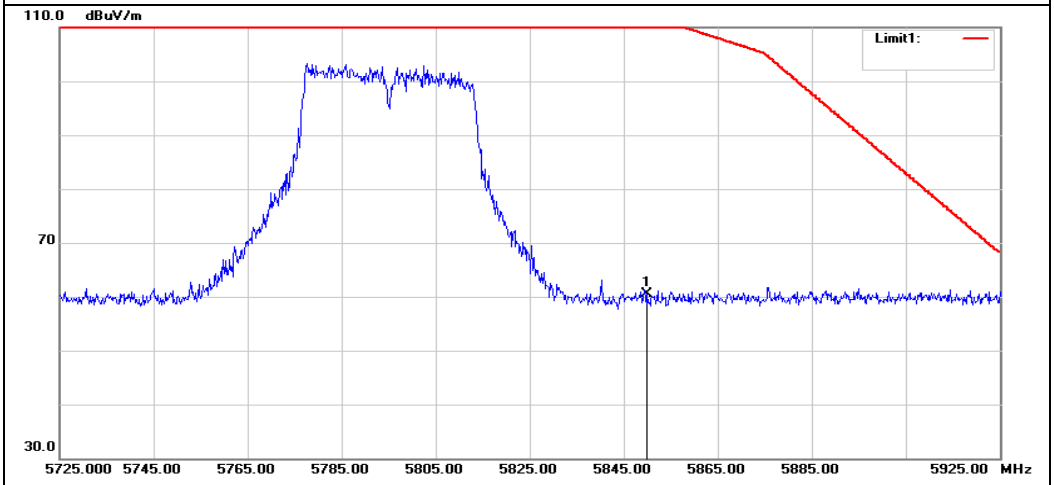


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	60.43	5.96	66.39	122.20	-55.81	Peak	Vertical
2	5725.000	58.22	5.96	64.18	122.20	-58.02	Peak	Horizontal

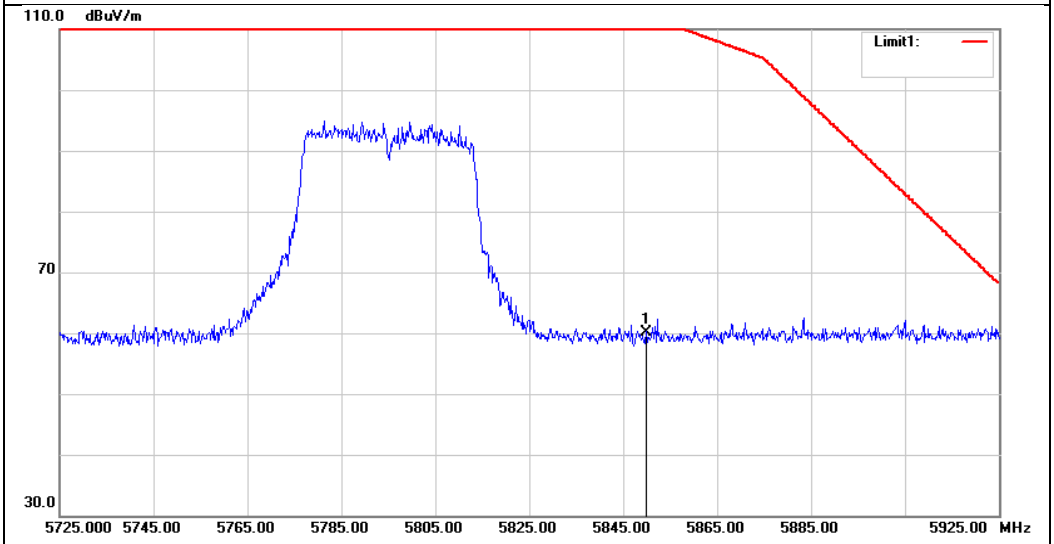
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH High

Detector mode: Peak **Polarity: Vertical**



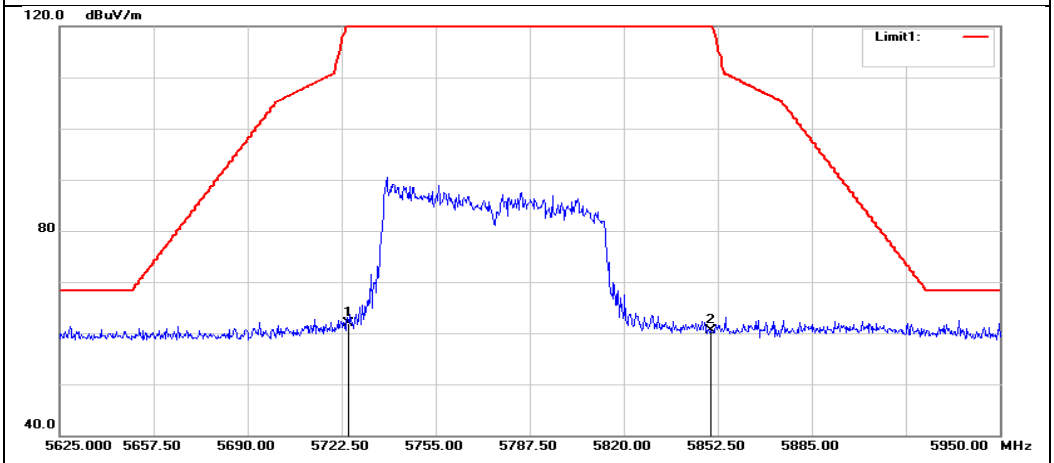
Detector mode: Peak **Polarity: Horizontal**



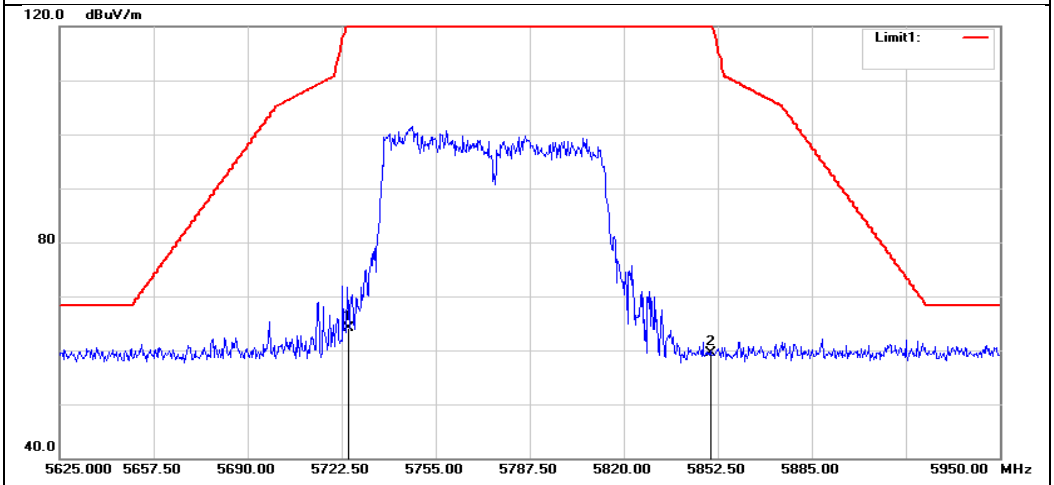
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	54.43	6.02	60.45	122.20	-61.75	Peak	Vertical
2	5850.000	54.18	6.02	60.20	122.20	-62.00	Peak	Horizontal

IEEE 802.11ac 80 mode / 5775MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	55.97	5.96	61.93	122.20	-60.27	Peak	Vertical
2	5850.000	54.56	6.02	60.58	122.20	-61.62	Peak	Vertical
1	5725.000	58.16	5.96	64.12	122.20	-58.08	Peak	Horizontal
2	5850.000	53.40	6.02	59.42	122.20	-62.78	Peak	Horizontal

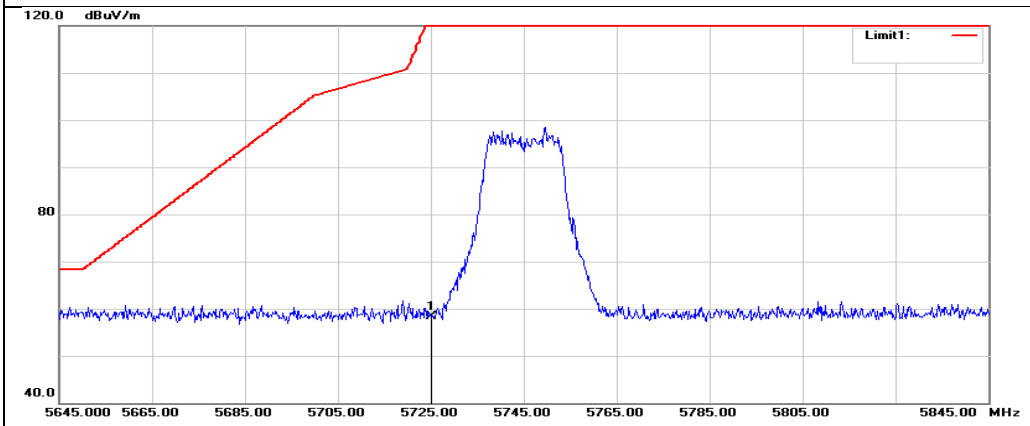
GL-AR750S-EXT

Test Plot

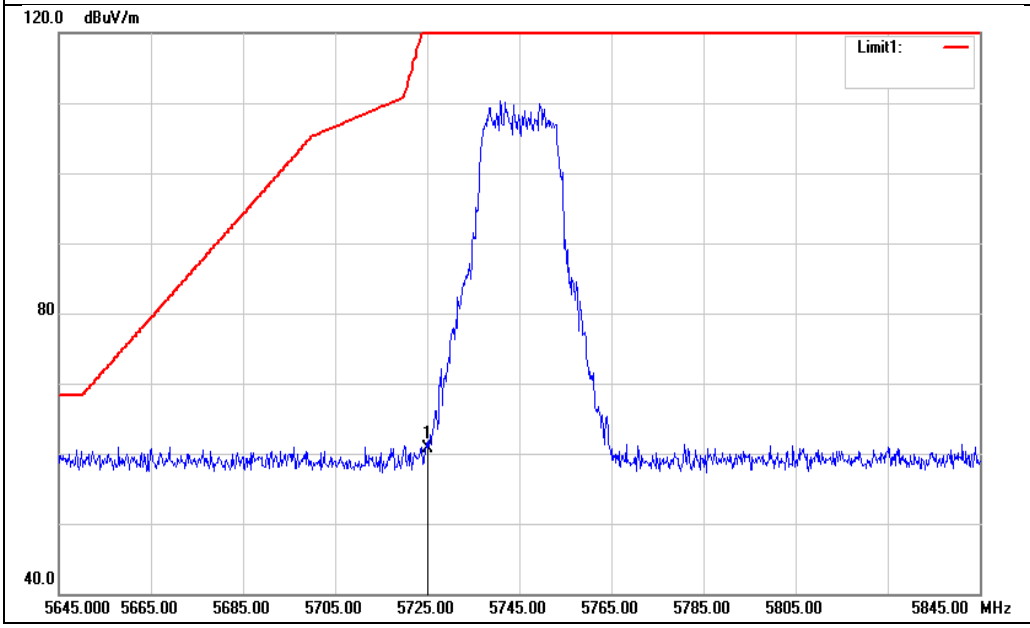
IEEE 802.11a mode / 5745 ~ 5825MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

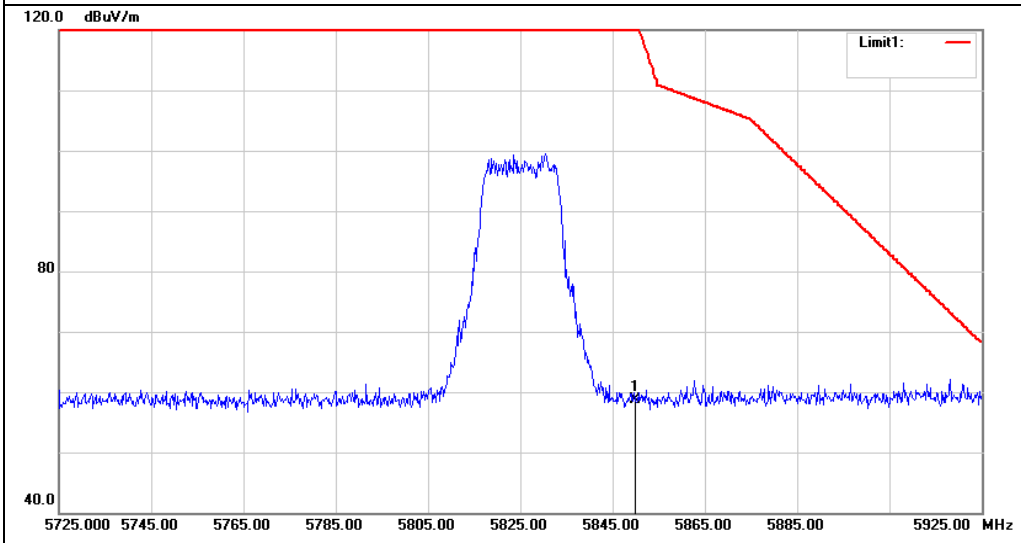


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	52.43	5.96	58.39	122.20	-63.81	Peak	Vertical
2	5725.000	54.70	5.96	60.66	122.20	-61.54	Peak	Horizontal

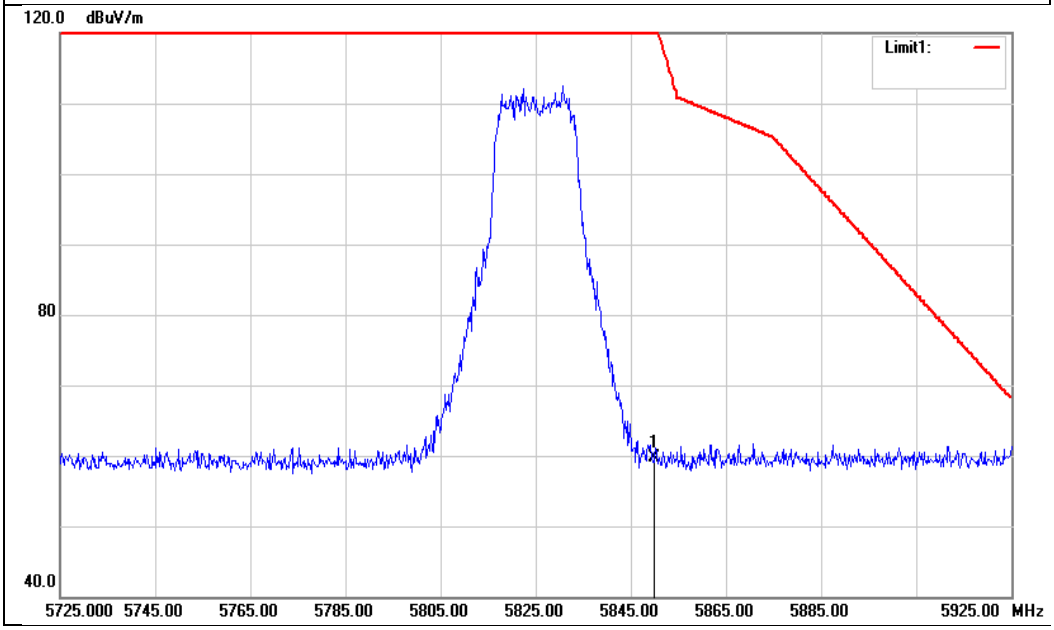
IEEE 802.11a mode / 5745 ~ 5825MHz

CH High

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

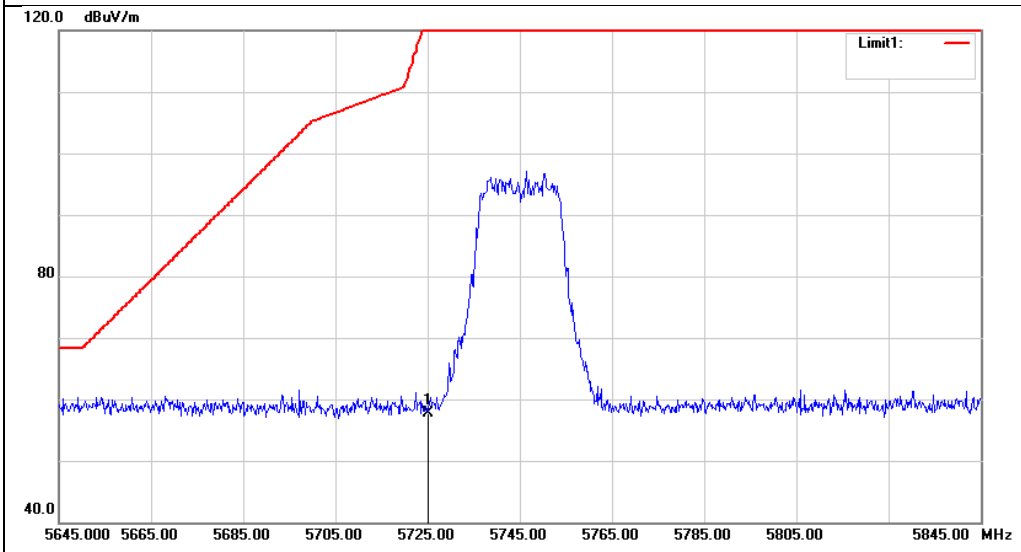


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	52.76	6.02	58.78	122.20	-63.42	Peak	Vertical
2	5850.000	53.78	6.02	59.80	122.20	-62.40	Peak	Horizontal

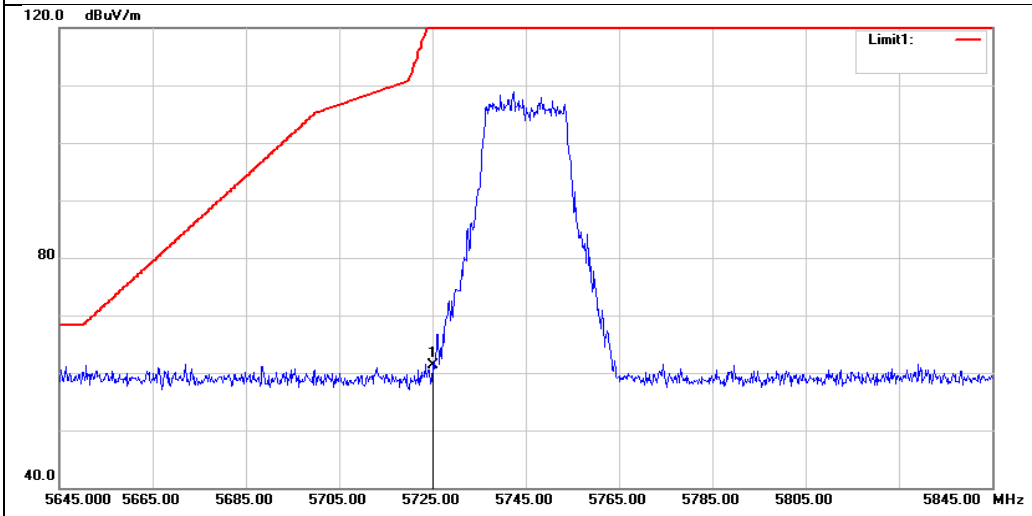
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

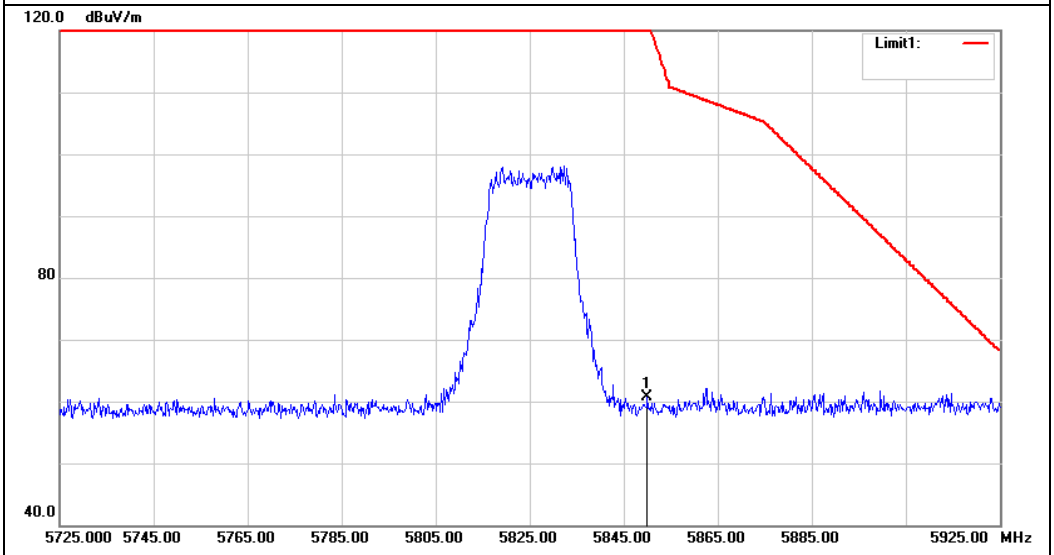


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	51.84	5.96	57.80	122.20	-64.40	Peak	Vertical
2	5725.000	55.25	5.96	61.21	122.20	-60.99	Peak	Horizontal

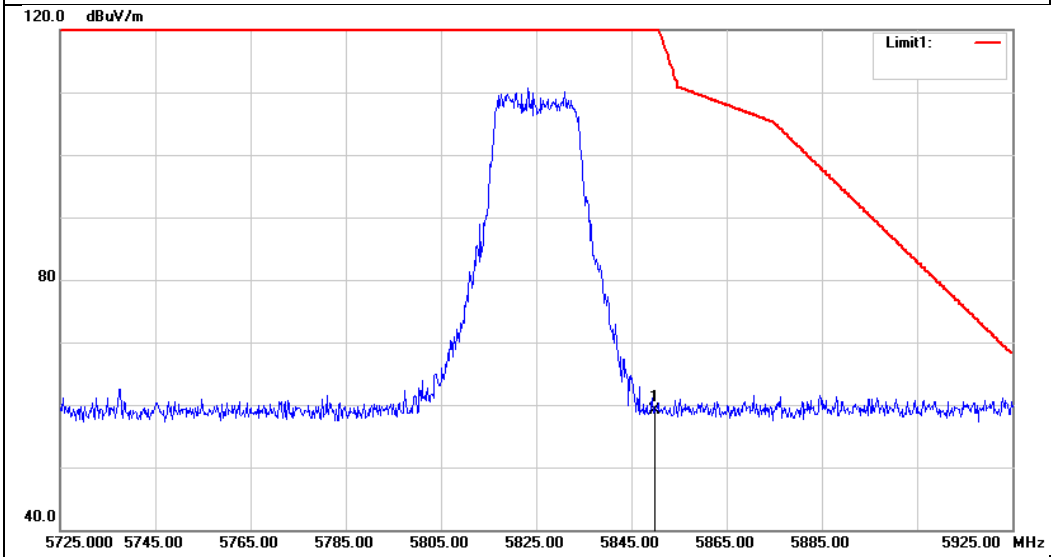
IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

CH High

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

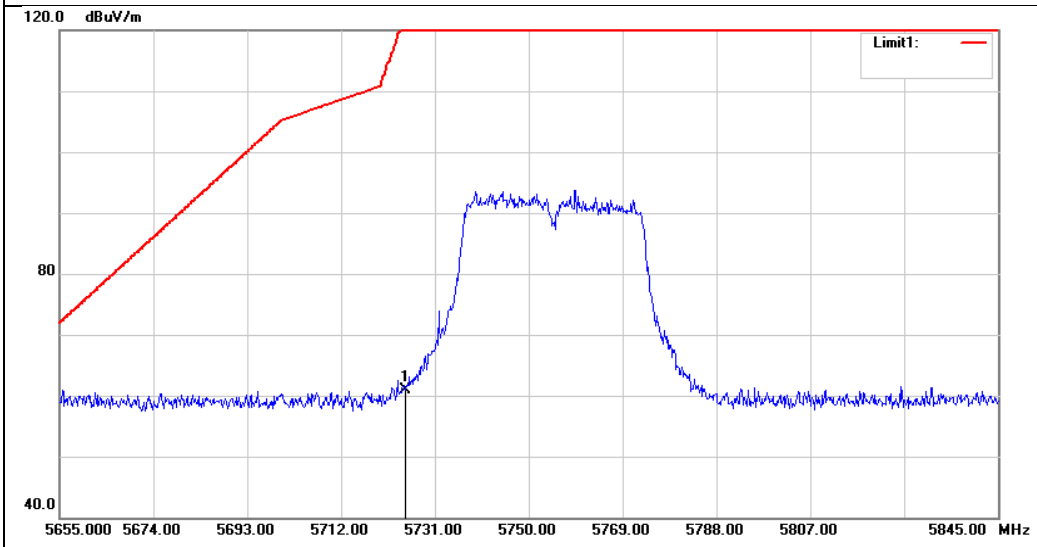


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	54.62	6.02	60.64	122.20	-61.56	Peak	Vertical
2	5850.000	53.13	6.02	59.15	122.20	-63.05	Peak	Horizontal

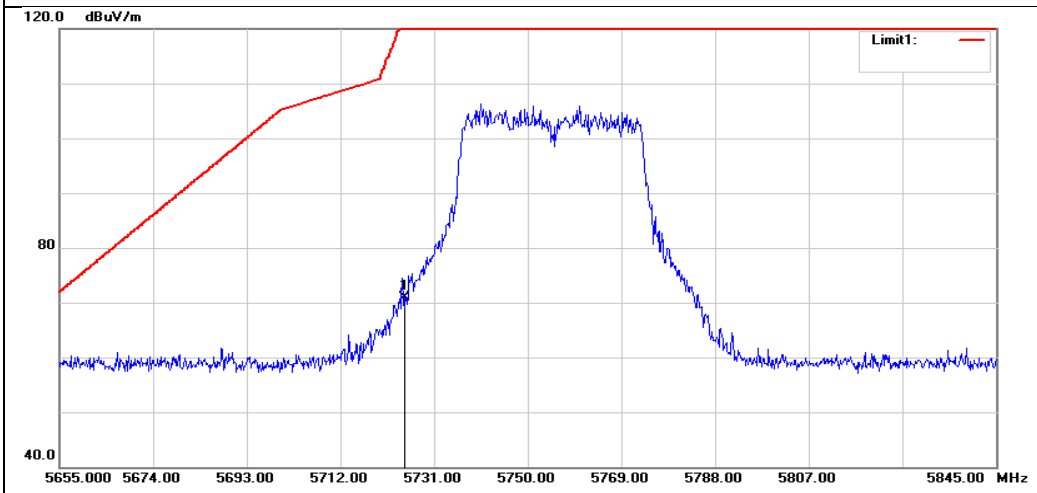
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH Low

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**

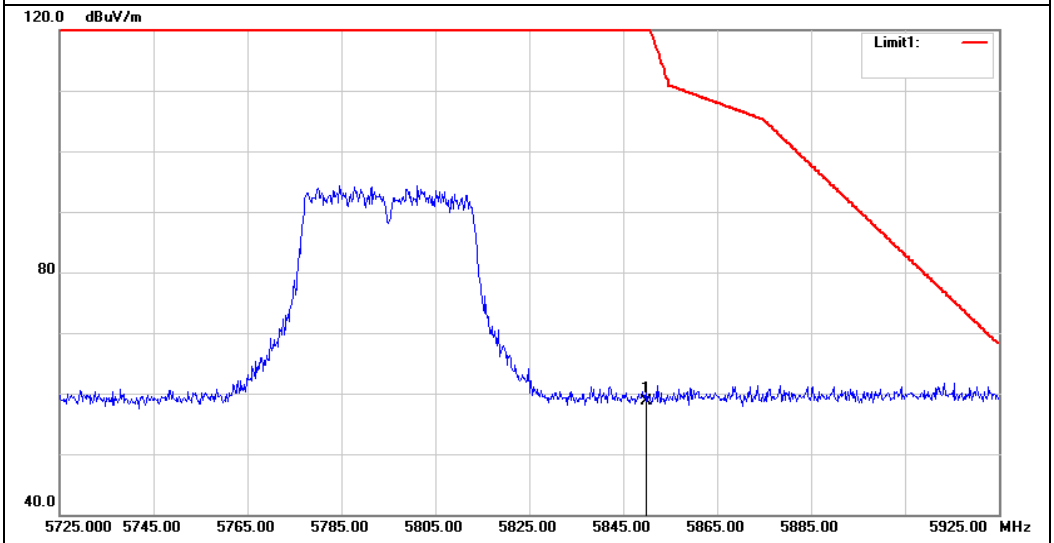


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	55.03	5.96	60.99	122.20	-61.21	Peak	Vertical
2	5725.000	65.03	5.96	70.99	122.20	-51.21	Peak	Horizontal

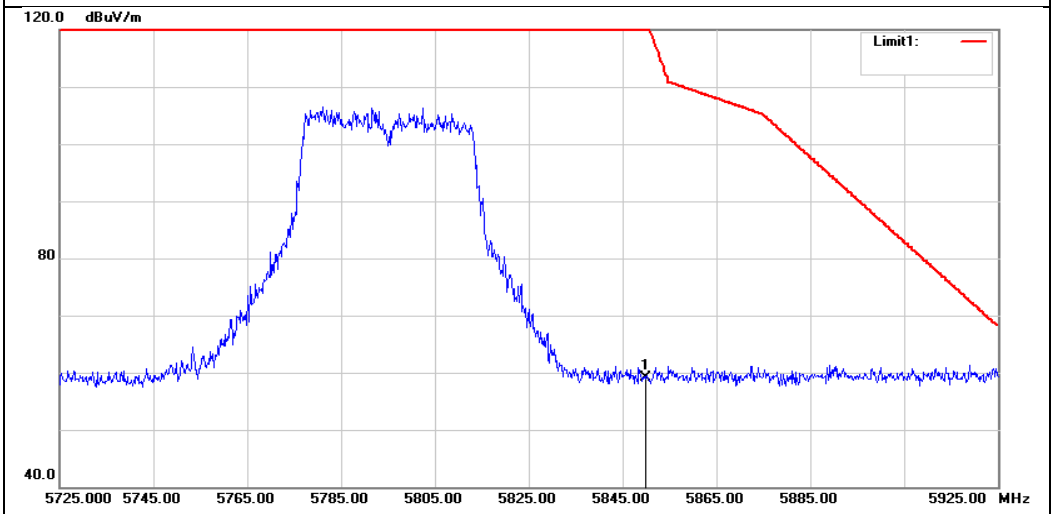
IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

CH High

Detector mode: Peak **Polarity: Vertical**



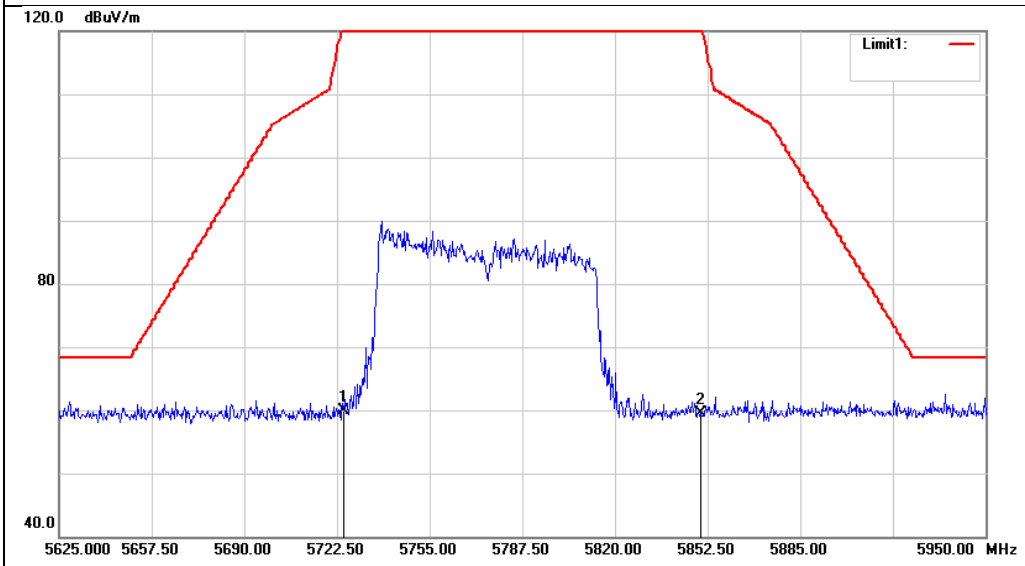
Detector mode: Peak **Polarity: Horizontal**



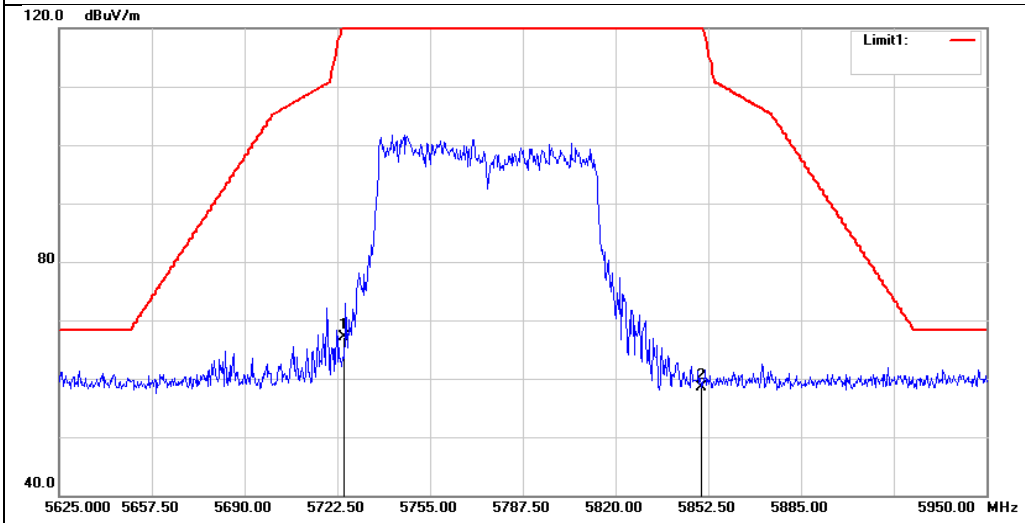
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5850.000	52.59	6.02	58.61	122.20	-63.59	Peak	Vertical
2	5850.000	53.01	6.02	59.03	122.20	-63.17	Peak	Horizontal

IEEE 802.11ac 80 mode / 5775MHz

Detector mode: Peak **Polarity: Vertical**



Detector mode: Peak **Polarity: Horizontal**



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Antenna Polar
1	5725.000	53.97	5.96	59.93	122.20	-62.27	Peak	Vertical
2	5850.000	53.56	6.02	59.58	122.20	-62.62	Peak	Vertical
1	5725.000	61.07	5.96	67.03	122.20	-55.17	Peak	Horizontal
2	5850.000	52.48	6.02	58.50	122.20	-63.70	Peak	Horizontal

6.9 POWERLINE CONDUCTED EMISSIONS

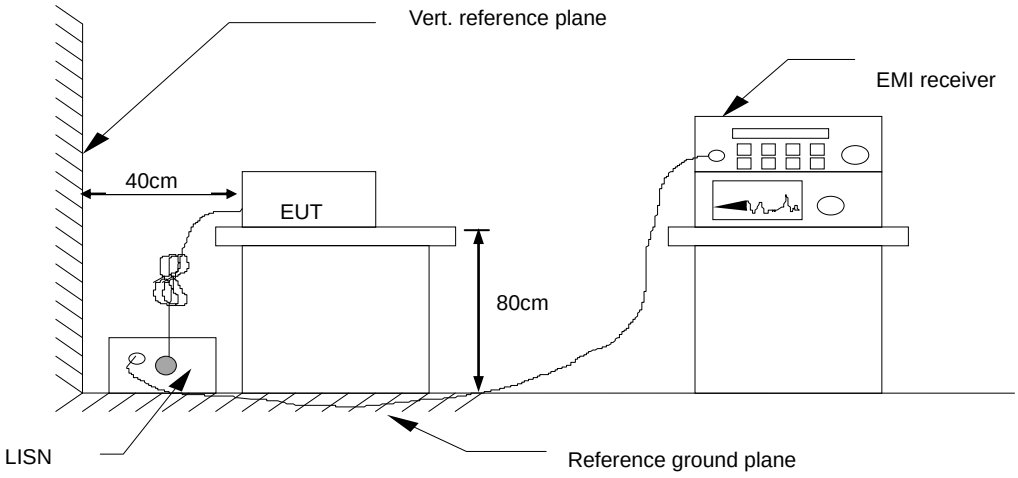
6.9.1 LIMIT

According to §15.207(a), except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

** Decreases with the logarithm of the frequency.*

6.9.2 TEST CONFIGURATION



6.9.3 TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

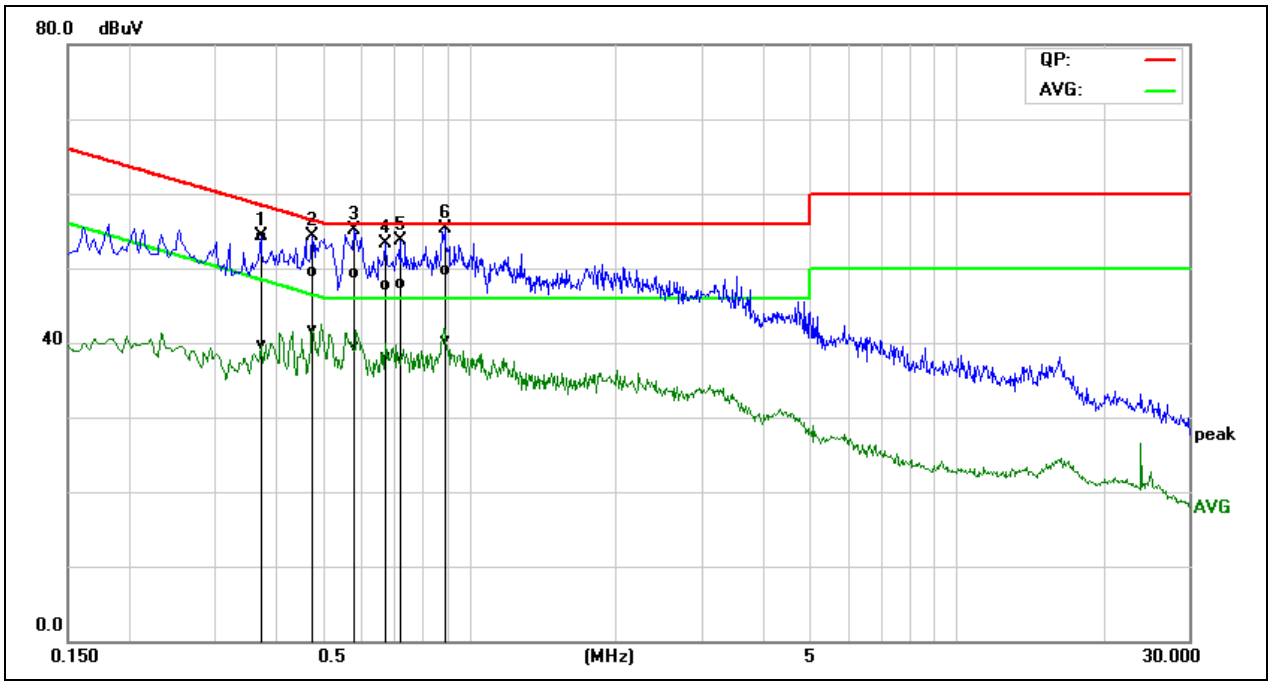
6.9.4 DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Reading/ Average Reading + Factor
Limit = Limit stated in standard
Margin = Result (dBuV) – Limit (dBuV)

6.9.5 TEST RESULTS

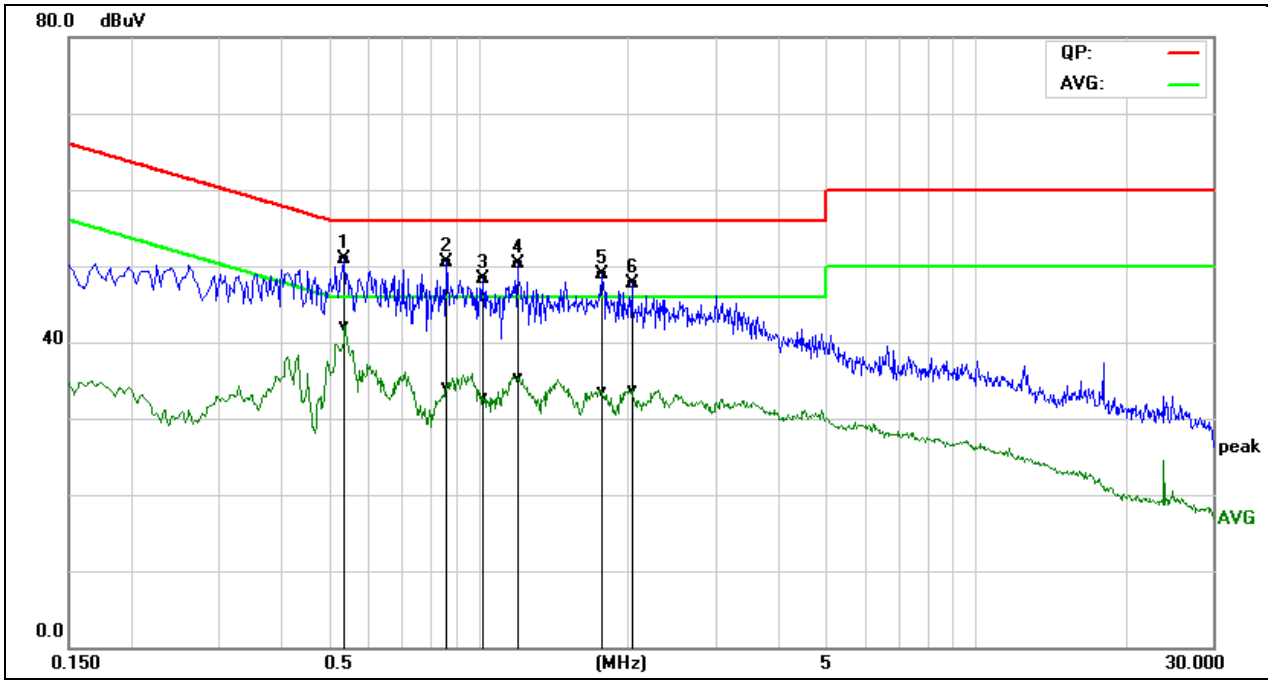
Model No.	GL-AR750S	RBW,VBW	9 kHz
Environmental Conditions	22°C, 45% RH	Test Mode	Mode 1
Tested by	Eason Nie	Line	L
Test Date	June 27, 2018	Test Voltage	AC 120V/60Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.3740	34.64	20.08	19.57	54.21	39.65	58.41	48.41	-4.20	-8.76	Pass
0.4780	30.06	22.08	19.54	49.60	41.62	56.37	46.37	-6.77	-4.75	Pass
0.5820	29.84	19.94	19.56	49.40	39.50	56.00	46.00	-6.60	-6.50	Pass
0.6740	28.20	18.50	19.60	47.80	38.10	56.00	46.00	-8.20	-7.90	Pass
0.7220	28.29	18.39	19.61	47.90	38.00	56.00	46.00	-8.10	-8.00	Pass
0.8940	30.13	20.73	19.57	49.70	40.30	56.00	46.00	-6.30	-5.70	Pass

REMARKS: *L1 = Line One (Live Line)*

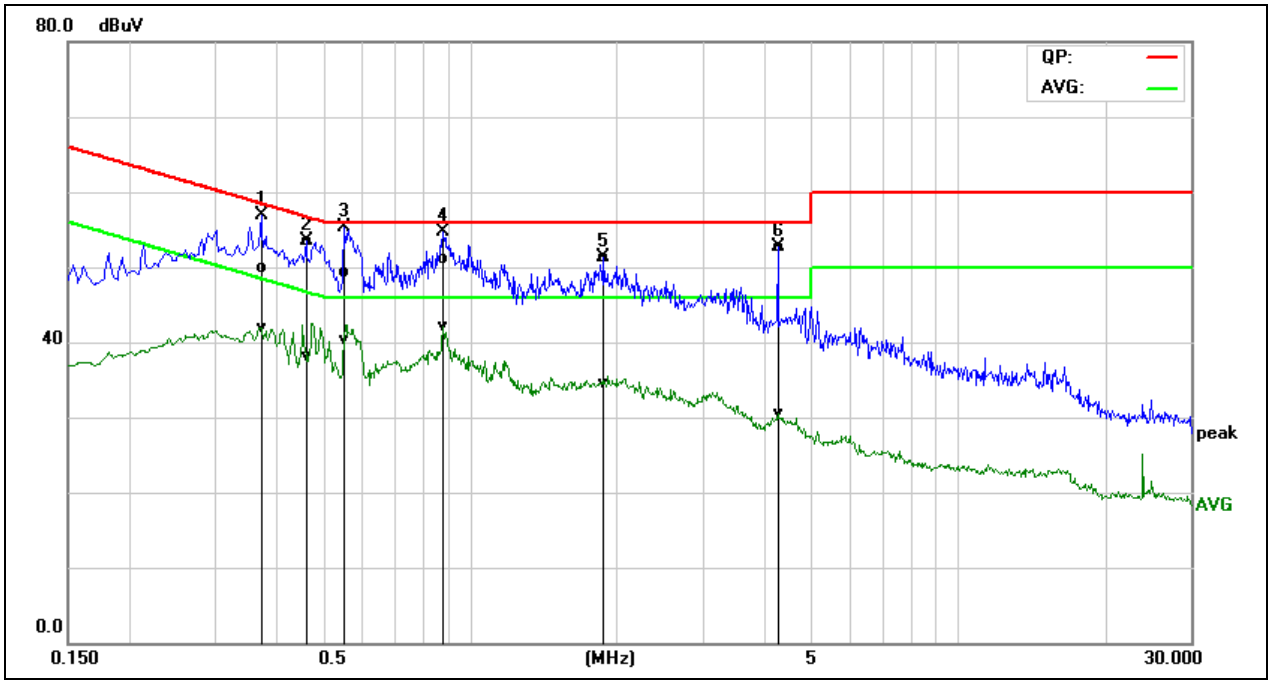
Model No.	GL-AR750S	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 1
Tested by	Eason Nie	**Line**	N
Test Date	June 27, 2018	**Test Voltage**	AC 120V/60Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.5380	31.27	22.53	19.55	50.82	42.08	56.00	46.00	-5.18	-3.92	Pass
0.8660	30.87	14.54	19.58	50.45	34.12	56.00	46.00	-5.55	-11.88	Pass
1.0220	28.71	13.17	19.55	48.26	32.72	56.00	46.00	-7.74	-13.28	Pass
1.1980	30.68	15.76	19.58	50.26	35.34	56.00	46.00	-5.74	-10.66	Pass
1.7740	29.22	13.83	19.68	48.90	33.51	56.00	46.00	-7.10	-12.49	Pass
2.0380	27.90	14.07	19.72	47.62	33.79	56.00	46.00	-8.38	-12.21	Pass

REMARKS: *N = Line Two (Neutral Line)*

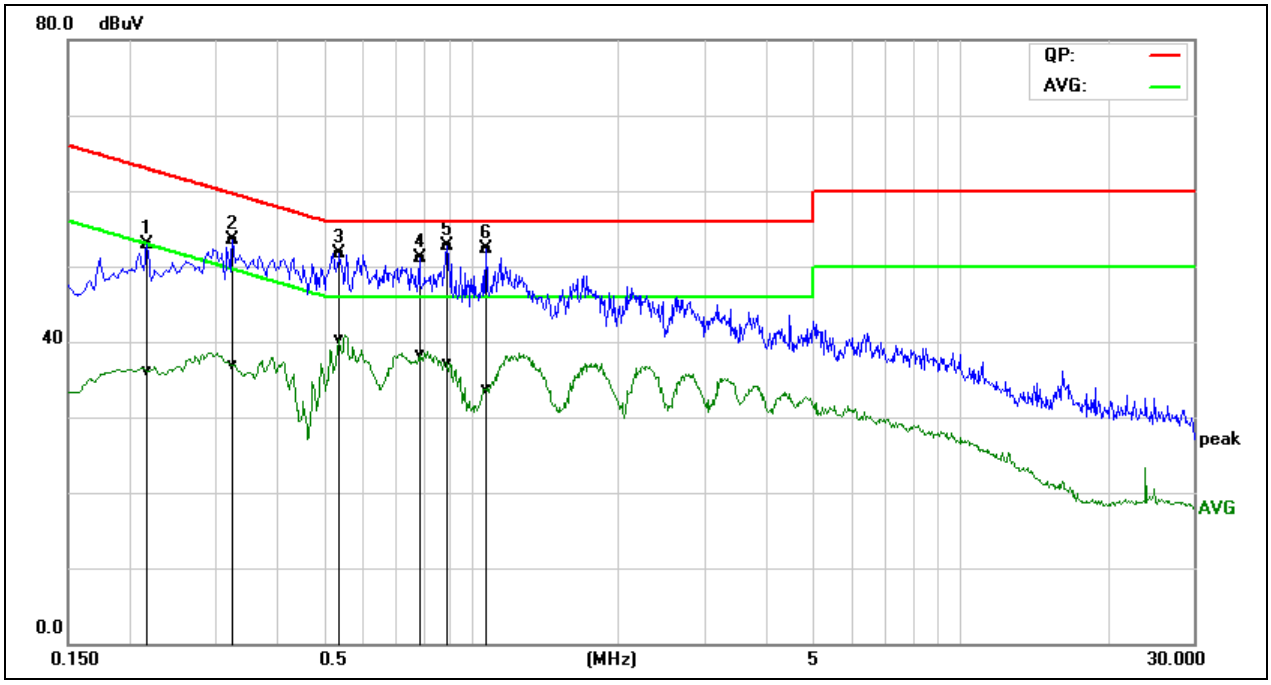
Model No.	GL-AR750S	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 2
Tested by	Eason Nie	**Line**	L
Test Date	June 27, 2018	**Test Voltage**	AC 240V/50Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.3740	30.33	22.38	19.57	49.90	41.95	58.41	48.41	-8.51	-6.46	Pass
0.4620	33.97	18.49	19.54	53.51	38.03	56.66	46.66	-3.15	-8.63	Pass
0.5540	29.85	20.85	19.55	49.40	40.40	56.00	46.00	-6.60	-5.60	Pass
0.8820	31.53	22.58	19.57	51.10	42.15	56.00	46.00	-4.90	-3.85	Pass
1.8780	31.62	14.86	19.70	51.32	34.56	56.00	46.00	-4.68	-11.44	Pass
4.2700	33.05	10.71	19.73	52.78	30.44	56.00	46.00	-3.22	-15.56	Pass

REMARKS: *L = Line One (Live Line)*

Model No.	GL-AR750S	**RBW,VBW**	9 kHz
Environmental Conditions	22°C, 45% RH	**Test Mode**	Mode 2
Tested by	Eason Nie	**Line**	N
Test Date	June 27, 2018	**Test Voltage**	AC 240V/50Hz



Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
0.2180	33.30	16.52	19.54	52.84	36.06	62.89	52.89	-10.05	-16.83	Pass
0.3260	33.88	17.28	19.54	53.42	36.82	59.55	49.55	-6.13	-12.73	Pass
0.5380	32.23	20.75	19.55	51.78	40.30	56.00	46.00	-4.22	-5.70	Pass
0.7860	31.54	18.65	19.59	51.13	38.24	56.00	46.00	-4.87	-7.76	Pass
0.8900	33.19	17.47	19.57	52.76	37.04	56.00	46.00	-3.24	-8.96	Pass
1.0740	32.80	14.11	19.57	52.37	33.68	56.00	46.00	-3.63	-12.32	Pass

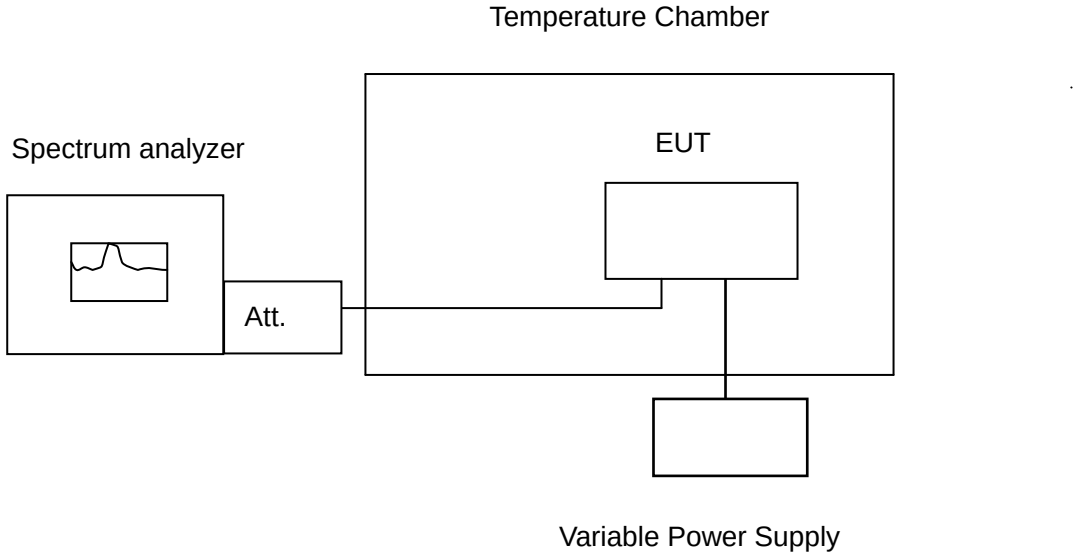
REMARKS: *N = Line Two (Neutral Line)*

6.10 FREQUENCY STABILITY

6.10.1 LIMIT

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

6.10.2 TEST CONFIGURATION



Remark: *Measurement setup for testing on Antenna connector*

6.10.3 TEST PROCEDURE

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20^{o}C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –20^{o}C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10^{o}C increased per stage until the highest temperature of +50^{o}C reached.

6.10.4 TEST RESULTS

No non-compliance noted.

Test Data

IEEE 802.11a MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.951696	5150-5250	PASS
40	120	5179.981946	5150-5250	PASS
30	120	5179.973736	5150-5250	PASS
20	120	5179.967820	5150-5250	PASS
10	120	5179.958532	5150-5250	PASS
0	120	5179.985852	5150-5250	PASS
-10	120	5179.966467	5150-5250	PASS
-20	120	5179.962860	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.995046	5150-5250	PASS
	120	5179.967820	5150-5250	PASS
	132	5179.973458	5150-5250	PASS

IEEE 802.11a mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.952701	5150-5250	PASS
40	120	5239.949179	5150-5250	PASS
30	120	5239.949464	5150-5250	PASS
20	120	5239.966570	5150-5250	PASS
10	120	5239.980222	5150-5250	PASS
0	120	5239.959464	5150-5250	PASS
-10	120	5239.964140	5150-5250	PASS
-20	120	5239.981970	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.956457	5150-5250	PASS
	120	5239.966570	5150-5250	PASS
	132	5239.997252	5150-5250	PASS

IEEE 802.11a mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.950008	5725-5850	PASS
40	120	5744.968426	5725-5850	PASS
30	120	5744.986532	5725-5850	PASS
20	120	5744.965754	5725-5850	PASS
10	120	5744.970675	5725-5850	PASS
0	120	5744.987027	5725-5850	PASS
-10	120	5744.975101	5725-5850	PASS
-20	120	5744.996787	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.973962	5725-5850	PASS
	120	5744.965754	5725-5850	PASS
	132	5744.950212	5725-5850	PASS

IEEE 802.11a MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.960586	5725-5850	PASS
40	120	5824.974917	5725-5850	PASS
30	120	5824.967413	5725-5850	PASS
20	120	5824.965764	5725-5850	PASS
10	120	5824.999214	5725-5850	PASS
0	120	5824.952072	5725-5850	PASS
-10	120	5824.983753	5725-5850	PASS
-20	120	5824.958280	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.992667	5725-5850	PASS
	120	5824.965764	5725-5850	PASS
	132	5824.981697	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5179.950950	5150-5250	PASS
40	120	5179.982312	5150-5250	PASS
30	120	5179.975284	5150-5250	PASS
20	120	5179.966870	5150-5250	PASS
10	120	5179.991004	5150-5250	PASS
0	120	5179.989451	5150-5250	PASS
-10	120	5179.987351	5150-5250	PASS
-20	120	5179.968042	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5179.962933	5150-5250	PASS
	120	5179.966870	5150-5250	PASS
	132	5179.965636	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5239.960389	5150-5250	PASS
40	120	5239.976968	5150-5250	PASS
30	120	5239.971116	5150-5250	PASS
20	120	5239.966742	5150-5250	PASS
10	120	5239.990188	5150-5250	PASS
0	120	5239.960896	5150-5250	PASS
-10	120	5239.973808	5150-5250	PASS
-20	120	5239.974034	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5239.992267	5150-5250	PASS
	120	5239.966742	5150-5250	PASS
	132	5239.999354	5150-5250	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5744.999168	5725-5850	PASS
40	120	5744.966745	5725-5850	PASS
30	120	5744.966729	5725-5850	PASS
20	120	5744.966664	5725-5850	PASS
10	120	5744.988275	5725-5850	PASS
0	120	5744.960562	5725-5850	PASS
-10	120	5744.967691	5725-5850	PASS
-20	120	5744.955809	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5744.998678	5725-5850	PASS
	120	5744.966664	5725-5850	PASS
	132	5744.968292	5725-5850	PASS

IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5824.958523	5725-5850	PASS
40	120	5824.978761	5725-5850	PASS
30	120	5824.992753	5725-5850	PASS
20	120	5824.966850	5725-5850	PASS
10	120	5824.969624	5725-5850	PASS
0	120	5824.996992	5725-5850	PASS
-10	120	5824.949001	5725-5850	PASS
-20	120	5824.995137	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5824.984269	5725-5850	PASS
	120	5824.966850	5725-5850	PASS
	132	5824.964656	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5189.969612	5150-5250	PASS
40	120	5189.974199	5150-5250	PASS
30	120	5189.974650	5150-5250	PASS
20	120	5189.965542	5150-5250	PASS
10	120	5189.994913	5150-5250	PASS
0	120	5189.986419	5150-5250	PASS
-10	120	5189.963035	5150-5250	PASS
-20	120	5189.996681	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5189.978554	5150-5250	PASS
	120	5189.965542	5150-5250	PASS
	132	5189.964909	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5229.957223	5150-5250	PASS
40	120	5229.956052	5150-5250	PASS
30	120	5229.993584	5150-5250	PASS
20	120	5229.966650	5150-5250	PASS
10	120	5229.979213	5150-5250	PASS
0	120	5229.972016	5150-5250	PASS
-10	120	5229.950645	5150-5250	PASS
-20	120	5229.995373	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5229.981525	5150-5250	PASS
	120	5229.966650	5150-5250	PASS
	132	5229.955944	5150-5250	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (Low)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5754.954045	5725-5850	PASS
40	120	5754.963349	5725-5850	PASS
30	120	5754.985056	5725-5850	PASS
20	120	5754.966674	5725-5850	PASS
10	120	5754.967343	5725-5850	PASS
0	120	5754.992883	5725-5850	PASS
-10	120	5754.983728	5725-5850	PASS
-20	120	5754.956712	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5754.974960	5725-5850	PASS
	120	5754.966674	5725-5850	PASS
	132	5754.959214	5725-5850	PASS

IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz (High)

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5794.964911	5725-5850	PASS
40	120	5794.984856	5725-5850	PASS
30	120	5794.957949	5725-5850	PASS
20	120	5794.966820	5725-5850	PASS
10	120	5794.991129	5725-5850	PASS
0	120	5794.994315	5725-5850	PASS
-10	120	5794.964276	5725-5850	PASS
-20	120	5794.971022	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5794.990239	5725-5850	PASS
	120	5794.966820	5725-5850	PASS
	132	5794.959086	5725-5850	PASS

IEEE 802.11ac 80 mode / 5210MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5209.980705	5150-5250	PASS
40	120	5209.959115	5150-5250	PASS
30	120	5209.953771	5150-5250	PASS
20	120	5209.966540	5150-5250	PASS
10	120	5209.964820	5150-5250	PASS
0	120	5209.959453	5150-5250	PASS
-10	120	5209.950487	5150-5250	PASS
-20	120	5209.992981	5150-5250	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5209.974302	5150-5250	PASS
	120	5209.966540	5150-5250	PASS
	132	5209.970123	5150-5250	PASS

IEEE 802.11ac 80 mode / 5775MHz

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
50	120	5774.951639	5725-5850	PASS
40	120	5774.953274	5725-5850	PASS
30	120	5774.957703	5725-5850	PASS
20	120	5774.965740	5725-5850	PASS
10	120	5774.981208	5725-5850	PASS
0	120	5774.999942	5725-5850	PASS
-10	120	5774.967255	5725-5850	PASS
-20	120	5774.965786	5725-5850	PASS

Environment Temperature (°C)	Volage (V)	Measured Frequency (MHz)	limit Range	Test Result
20	108	5774.976684	5725-5850	PASS
	120	5774.965740	5725-5850	PASS
	132	5774.955505	5725-5850	PASS