



**FCC PART 15
TEST REPORT
No. I22Z70125-EMC06**

for

Samsung Electronics Co., Ltd.

Notebook PC

Model Name: NP755XDA

With

FCC ID: ZCANP755XDA

Hardware Version: REV1.0

Software Version: Windows10-Pro

Issued Date: 2022-05-25

Note:

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The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z70125-EMC06	Rev.0	1st edition	2022-01-29

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1. TEST LABORATORY

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location: CTTL (Huayuan North Road)

Address: No. 52 Huayuan North Road, Haidian District, Beijing 100191, P.R. China

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2022-03-28

Testing End Date: 2022-05-10

1.5. Signature



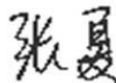
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Zhang Ying

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Deputy Director of the laboratory

(Approved this test report)



2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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3. PRODUCT INFORMATION

3.1. About EUT

Description	Notebook PC
Model name	NP755XDA
FCC ID	ZCANP755XDA

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of T CTTL-Telecommunication Technology Labs, CAICT

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version
EUT1	2270125UT13a	REV1.0	Windows10-Pro
EUT2	2270125UT15a	REV1.0	Windows10-Pro

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Travel Adapter	/	/
AE2	Data Cable	/	/
AE3	battery	/	Inbuilt

AE1

Model	EP-TA865
Manufacturer	SOLU-M
Length of cable	/

AE2

Model	/
Manufacturer	/
Length of cable	/

AE3

Model	/
Manufacturer	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

The Equipment Under Test (EUT) was a Notebook Computer with Bluetooth, Bluetooth Low Energy and 802.11 a/b/g/n/ac/ax capabilities in the 2.4 GHz and 5 GHz bands.

Manual and specifications of the EUT were provided to fulfil the test.

Samples undergoing test were selected by the Client.

For more EUT information please refers to the manufacturer's specifications or user's manual.

3.5. Test Configuration

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ac20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ac40 & 802.11ax40 (40MHz channel bandwidth) and 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously(MIMO).

The software DRTU provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.6. Interpretation of the Test Environment

For the test methods, the test environment uncertainty figures correspond to an expansion factor $k=2$.

Measurement Uncertainty

Parameter	Uncertainty
temperature	0.48°C
humidity	2 %
DC voltages	0.003V

4. REFERENCE DOCUMENTS

4.1. Documents supplied by applicant

EUT feature information is supplied by the applicant or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2021
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

Note: The test methods have no deviation with standards.

5. SUMMARY OF TEST RESULTS

5.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15	Verdict
Radiated Spurious Emission	15.407, 15.205, 15.209	P
AC Power line Conducted Emission	15.407, 15.207	P

Please refer to **ANNEX C** for detail.

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NP	Not Perform, The test was not performed by CTTL
BR	Re-use test data from basic model report.
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

5.2. Statements

The test cases as listed in section 5.1 of this report for the EUT specified in section 3 was performed by CTTL and according to the standards or reference documents listed in section 4.2 The EUT met all requirements of the standards or reference documents, and only the WLAN function was tested in this report.

5.3. Test Conditions

T nom	Normal Temperature
T min	Low Temperature
T max	High Temperature
V nom	Normal Voltage

For this report, if the test cases listed above are tested under normal temperature and normal voltage, and also under norm humidity, the specific condition is shown as follows:

Temperature	T nom	15-35°C
Voltage	V nom	15.4V
Humidity	H nom	20-75%

6. TEST EQUIPMENTS UTILIZED

Radiated emission test system

No.	Equipment	Model	Manufacturer	Serial Number	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	R&S	103023	1 year	2022-10-18
2	Analytical Spectrometer	FSV40	R&S	101407	1 year	2022-06-03
3	EMI Antenna	VULB 9163	SCHWARZBECK	483	1 year	2022-08-24
4	EMI Antenna	3115	ETS-Lindgren	00167250	1 year	2022-07-01
5	EMI Antenna	3116	ETS-Lindgren	2663	1 year	2022-08-11
6	Loop Antenna	HFH2-Z2	R&S	829324/007	1 year	2022-12-22

AC Power Line Conducted Emission

No.	Equipment	Model	Manufacturer	Serial Number	Calibration Period	Calibration Due date
1	LISN	ENV216	R&S	101200	1 year	2022-05-30
2	Test Receiver	ESCI	R&S	100344	1 year	2023-03-21

7. Measurement Uncertainty

Radiated Spurious Emission

(k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	4.92
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.15
$1\text{GHz} \leq f \leq 18\text{GHz}$	5.54
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.26

AC Power-line Conducted Emission

Measurement Uncertainty: 3.08dB, k=2



ANNEX A: EUT parameters

Disclaimer: The antenna gain and setting power provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX B: Antenna Requirements

According to FCC 47 CFR § 15.203, §15.407:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- (1) The antennas of the EUT are permanently attached.
- (2) The EUT complies with the requirement of §15.203, §15.407.

ANNEX C: Detailed Test Results

C.1. Radiated Spurious Emission

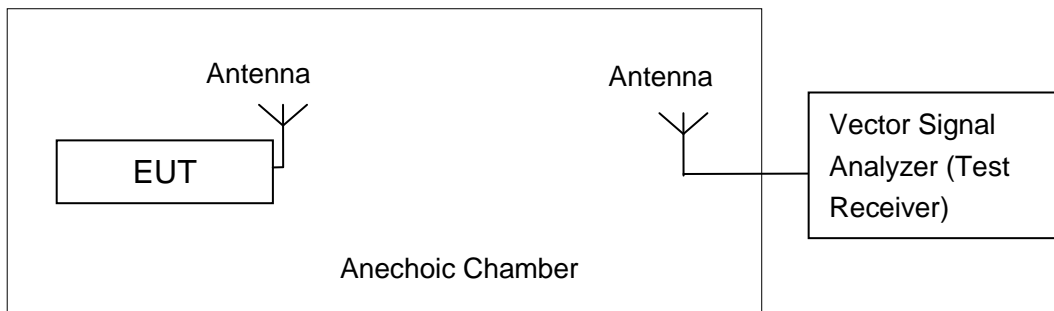
Specification Reference

FCC 47 CFR Part 15, Clause 15.407 (b) , Clause 15.205, Clause 15.209

Method of Measurement

Testing was performed in according with ANSI C63.10-2013 and KDB 789033.

The radiated emission test is performed in semi-anechoic chamber. The distance from the EUT to the reference point of measurement antenna is 3m. The test is carried out on both vertical and horizontal polarization and only maximization result of both polarizations is kept. During the test, the turntable is rotated 360° and the measurement antenna is moved from 1m to 4m to get the maximization result.



Measurement Limit

Standard	Limit (dBm/MHz)	
FCC 47 CFR Part 15.407	at the band edge	27
	at 5 MHz above or below the band edge	15.6
	at 25 MHz above or below the band edge	10
	at 75 MHz or more above or below the band edge	-27
Note: Increasing linearly from point to point.		

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency (MHz)	Field strength(μ V/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength(dB μ V/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Test settings

Frequency of emission (MHz)	RBW/ Δ BW
30-1000	100kHz/300kHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

Sample Calculation

1. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dB μ V/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dbm

2. The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

Test Notes

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all channel, modes and modulations/data rates. Only the radiated emissions of the configurations that produced the worst case emissions are reported in this section.
3. The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report.

C.1.1 Radiated Spurious Emission- above 1GHz

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Average Results:

802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	41.95	-25.50	46.66	20.79	54.00	12.05	V
17727.800	41.88	-25.74	45.95	21.67	54.00	12.12	V
16061.800	38.63	-26.77	38.93	26.47	54.00	15.37	H
16146.500	38.42	-26.77	38.93	26.26	54.00	15.58	H
11991.200	36.53	-31.48	39.09	28.92	54.00	17.47	V
11938.500	36.49	-31.48	39.09	28.88	54.00	17.51	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17860.300	41.96	-25.50	46.66	20.80	54.00	12.04	V
17956.500	41.87	-25.50	46.66	20.71	54.00	12.13	V
16056.300	38.51	-27.35	38.54	27.32	54.00	15.49	V
16045.300	38.21	-27.35	38.54	27.02	54.00	15.79	V
11946.700	36.50	-31.48	39.09	28.89	54.00	17.50	V
11044.700	36.29	-32.49	38.72	30.05	54.00	17.71	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.500	41.96	-25.50	46.66	20.80	54.00	12.04	V
17952.200	41.80	-25.50	46.66	20.64	54.00	12.20	H
16058.000	38.61	-26.77	38.93	26.45	54.00	15.39	H
16048.000	38.29	-27.35	38.54	27.10	54.00	15.71	H
10954.500	36.51	-32.82	38.70	30.63	54.00	17.49	V
11942.900	36.46	-31.48	39.09	28.85	54.00	17.54	H

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.300	41.87	-25.50	46.66	20.71	54.00	12.13	V
17989.500	41.84	-25.50	46.66	20.68	54.00	12.16	H
16073.400	38.47	-26.77	38.93	26.31	54.00	15.53	V
16077.800	38.33	-26.77	38.93	26.17	54.00	15.67	H
11870.800	36.39	-31.85	39.05	29.19	54.00	17.61	H
11046.900	36.38	-32.49	38.72	30.14	54.00	17.62	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	41.91	-25.50	46.66	20.75	54.00	12.09	H
17791.500	41.77	-25.50	46.66	20.61	54.00	12.23	V
16048.000	38.46	-27.35	38.54	27.27	54.00	15.54	H
16062.400	38.42	-26.77	38.93	26.26	54.00	15.58	H
11920.900	36.46	-31.48	39.09	28.85	54.00	17.54	V
11535.900	36.30	-32.26	38.84	29.73	54.00	17.70	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17956.000	42.16	-25.50	46.66	21.00	54.00	11.84	H
17934.000	41.96	-25.50	46.66	20.80	54.00	12.04	H
16050.800	38.43	-27.35	38.54	27.24	54.00	15.57	H
16061.200	38.43	-26.77	38.93	26.27	54.00	15.57	H
11052.400	36.33	-32.49	38.72	30.09	54.00	17.67	H
11950.000	36.32	-31.48	39.09	28.71	54.00	17.68	V

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.400	42.12	-25.50	46.66	20.96	54.00	11.88	V
17955.500	41.82	-25.50	46.66	20.66	54.00	12.18	H
16066.800	38.62	-26.77	38.93	26.46	54.00	15.38	H
16069.500	38.54	-26.77	38.93	26.38	54.00	15.46	V
11917.000	36.29	-31.48	39.09	28.68	54.00	17.71	V
11904.400	36.26	-31.85	39.05	29.06	54.00	17.74	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17765.200	41.90	-25.50	46.66	20.74	54.00	12.10	H
17824.000	41.89	-25.50	46.66	20.73	54.00	12.11	V
16054.100	38.41	-27.35	38.54	27.22	54.00	15.59	H
16058.000	38.12	-26.77	38.93	25.96	54.00	15.88	V
11953.900	36.46	-31.48	39.09	28.85	54.00	17.54	H
11936.800	36.32	-31.48	39.09	28.71	54.00	17.68	H

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.600	41.76	-25.50	46.66	20.60	54.00	12.24	V
17745.300	41.74	-25.50	46.66	20.58	54.00	12.26	H
16056.900	38.17	-27.35	38.54	26.98	54.00	15.83	H
15960.600	38.14	-27.35	38.54	26.95	54.00	15.86	H
11050.200	36.62	-32.49	38.72	30.38	54.00	17.38	H
11045.200	36.24	-32.49	38.72	30.00	54.00	17.76	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.200	41.99	-25.50	46.66	20.83	54.00	12.01	H
17964.800	41.96	-25.50	46.66	20.80	54.00	12.04	H
16058.500	38.26	-26.77	38.93	26.10	54.00	15.74	H
16047.500	38.25	-27.35	38.54	27.06	54.00	15.75	V
11924.700	36.32	-31.48	39.09	28.71	54.00	17.68	H
11049.600	36.26	-32.49	38.72	30.02	54.00	17.74	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17908.700	41.88	-25.50	46.66	20.72	54.00	12.12	H
17996.700	41.84	-25.50	46.66	20.68	54.00	12.16	H
15981.500	38.37	-27.35	38.54	27.18	54.00	15.63	H
16062.900	38.32	-26.77	38.93	26.16	54.00	15.68	V
11049.600	36.32	-32.49	38.72	30.08	54.00	17.68	V
11908.800	36.29	-31.85	39.05	29.09	54.00	17.71	V

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17704.700	41.93	-25.74	45.95	21.72	54.00	12.07	V
17980.200	41.80	-25.50	46.66	20.64	54.00	12.20	H
16051.900	38.38	-27.35	38.54	27.19	54.00	15.62	H
16069.500	38.19	-26.77	38.93	26.03	54.00	15.81	V
11903.800	36.64	-31.85	39.05	29.44	54.00	17.36	H
11996.200	36.18	-31.48	39.09	28.57	54.00	17.82	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17778.300	41.92	-25.50	46.66	20.76	54.00	12.08	V
17998.300	41.83	-25.50	46.66	20.67	54.00	12.17	V
16070.600	38.49	-26.77	38.93	26.33	54.00	15.51	H
16069.000	38.09	-26.77	38.93	25.93	54.00	15.91	H
11933.500	36.29	-31.48	39.09	28.68	54.00	17.71	V
11045.200	36.22	-32.49	38.72	29.98	54.00	17.78	V

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.600	41.80	-25.50	46.66	20.64	54.00	12.20	V
17741.000	41.68	-25.50	46.66	20.52	54.00	12.32	H
16156.400	38.57	-26.77	38.93	26.41	54.00	15.43	V
16058.000	38.31	-26.77	38.93	26.15	54.00	15.69	V
11859.200	36.36	-31.85	39.05	29.16	54.00	17.64	V
11950.500	36.26	-31.48	39.09	28.65	54.00	17.74	H

802.11ax-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.60	42.05	-25.5	46.66	20.89	54.00	11.95	H
17992.30	42.02	-25.5	46.66	20.86	54.00	11.98	H
16064.50	38.30	-26.77	38.93	26.14	54.00	15.70	V
15964.50	38.27	-27.35	38.54	27.08	54.00	15.73	V
11050.20	36.47	-32.49	38.72	30.23	54.00	17.53	V
11940.10	36.34	-31.48	39.09	28.73	54.00	17.66	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.00	42.29	-25.5	46.66	21.13	54.00	11.71	H
17979.70	42.06	-25.5	46.66	20.90	54.00	11.94	H
15990.90	38.32	-27.35	38.54	27.13	54.00	15.68	V
15970.50	38.22	-27.35	38.54	27.03	54.00	15.78	V
11924.10	36.28	-31.48	39.09	28.67	54.00	17.72	H
11835.60	36.20	-31.85	39.05	29.00	54.00	17.80	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.50	41.97	-25.5	46.66	20.81	54.00	12.03	V
17996.70	41.91	-25.5	46.66	20.75	54.00	12.09	V
16148.10	38.39	-26.77	38.93	26.23	54.00	15.61	V
16065.60	38.31	-26.77	38.93	26.15	54.00	15.69	H
11941.20	36.48	-31.48	39.09	28.87	54.00	17.52	H
11049.60	36.24	-32.49	38.72	30.00	54.00	17.76	V

802.11ax-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.500	41.81	-25.5	46.66	20.65	54.00	12.19	V
17939.500	41.68	-25.5	46.66	20.52	54.00	12.32	V
16077.800	38.50	-26.77	38.93	26.34	54.00	15.50	V
16067.300	38.41	-26.77	38.93	26.25	54.00	15.59	H
11960.500	36.37	-31.48	39.09	28.76	54.00	17.63	V
11957.100	36.34	-31.48	39.09	28.73	54.00	17.66	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17712.300	42.09	-25.74	45.95	21.88	54.00	11.91	H
17985.700	41.68	-25.5	46.66	20.52	54.00	12.32	H
16139.900	38.31	-26.77	38.93	26.15	54.00	15.69	H
16148.100	38.28	-26.77	38.93	26.12	54.00	15.72	V
11049.100	36.47	-32.49	38.72	30.23	54.00	17.53	H
11855.400	36.41	-31.85	39.05	29.21	54.00	17.59	H

802.11ax-HT80

Ch155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.700	42.02	-25.5	46.66	20.86	54.00	11.98	V
17992.300	41.91	-25.5	46.66	20.75	54.00	12.09	V
16057.400	38.46	-26.77	38.93	26.30	54.00	15.54	H
16062.900	38.38	-26.77	38.93	26.22	54.00	15.62	V
11048.000	36.33	-32.49	38.72	30.09	54.00	17.67	H
11949.500	36.32	-31.48	39.09	28.71	54.00	17.68	H

Peak Results:
802.11a

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.800	52.76	-25.50	46.66	31.60	74.00	21.24	H
17383.500	52.61	-25.95	44.35	34.20	68.30	15.69	V
16584.300	51.31	-26.87	40.65	37.53	68.30	16.99	V
16560.100	51.09	-26.87	40.65	37.31	68.30	17.21	H
11945.000	47.71	-31.48	39.09	40.10	74.00	26.29	H
10642.600	46.85	-32.76	38.38	41.23	74.00	27.15	H

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17600.200	52.55	-25.74	45.95	32.34	68.30	15.75	V
17822.300	52.55	-25.50	46.66	31.39	74.00	21.45	H
16572.200	51.21	-26.87	40.65	37.43	68.30	17.09	V
16782.300	50.66	-26.62	41.49	35.79	68.30	17.64	H
11869.100	47.40	-31.85	39.05	40.20	74.00	26.60	V
11948.400	47.07	-31.48	39.09	39.46	74.00	26.93	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17767.300	52.99	-25.50	46.66	31.83	74.00	21.01	H
17709.000	52.57	-25.74	45.95	32.36	74.00	21.43	H
16630.000	51.42	-26.87	40.65	37.64	68.30	16.88	V
16785.000	50.67	-26.62	41.49	35.80	68.30	17.63	H
11929.600	47.28	-31.48	39.09	39.67	74.00	26.72	V
11838.400	46.97	-31.85	39.05	39.77	74.00	27.03	V

802.11n-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17715.700	52.47	-25.74	45.95	32.26	74.00	21.53	V
17773.400	52.46	-25.50	46.66	31.30	74.00	21.54	V
16546.300	51.26	-26.87	40.65	37.48	68.30	17.04	V
16562.300	50.57	-26.87	40.65	36.79	68.30	17.73	H
11932.400	47.01	-31.48	39.09	39.40	74.00	26.99	V
11900.000	46.71	-31.85	39.05	39.51	74.00	27.29	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17700.800	53.04	-25.74	45.95	32.83	74.00	20.96	H
17984.000	52.95	-25.50	46.66	31.79	74.00	21.05	V
16983.600	51.41	-26.32	42.36	35.36	68.30	16.89	V
16561.800	51.01	-26.87	40.65	37.23	68.30	17.29	H
11949.500	47.10	-31.48	39.09	39.49	74.00	26.90	V
10529.400	46.72	-32.99	38.27	41.43	68.30	21.58	V

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	52.69	-25.50	46.66	31.53	74.00	21.31	V
17710.700	52.60	-25.74	45.95	32.39	74.00	21.40	V
16557.300	51.27	-26.87	40.65	37.49	68.30	17.03	V
16739.400	50.50	-26.62	41.49	35.63	68.30	17.80	V
11930.800	47.62	-31.48	39.09	40.01	74.00	26.38	H
11524.300	47.11	-32.26	38.84	40.54	74.00	26.89	V

802.11n-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17741.500	53.01	-25.50	46.66	31.85	74.00	20.99	V
17692.000	52.22	-25.74	45.95	32.01	68.30	16.08	H
13555.500	50.63	-29.56	39.99	40.20	68.30	17.67	H
16750.400	50.43	-26.62	41.49	35.56	68.30	17.87	H
11936.200	47.12	-31.48	39.09	39.51	74.00	26.88	H
10859.900	46.84	-32.33	38.59	40.58	74.00	27.16	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.600	52.92	-25.50	46.66	31.76	74.00	21.08	H
17321.300	52.35	-25.95	44.35	33.94	68.30	15.95	V
16672.800	50.56	-26.87	40.65	36.78	68.30	17.74	H
16672.300	50.45	-26.87	40.65	36.67	68.30	17.85	H
10747.100	47.07	-32.77	38.49	41.35	74.00	26.93	V
11906.000	46.96	-31.85	39.05	39.76	74.00	27.04	H

802.11ac-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17764.000	52.69	-25.50	46.66	31.53	74.00	21.31	V
17374.700	52.39	-25.95	44.35	33.98	68.30	15.91	V
13758.400	50.63	-29.10	40.86	38.86	68.30	17.67	H
16549.100	50.38	-26.87	40.65	36.60	68.30	17.92	V
11683.200	47.46	-31.99	38.98	40.47	74.00	26.54	H
11933.000	47.06	-31.48	39.09	39.45	74.00	26.94	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.300	52.58	-25.50	46.66	31.42	74.00	21.42	V
17952.200	52.56	-25.50	46.66	31.40	74.00	21.44	V
16571.700	51.46	-26.87	40.65	37.68	68.30	16.84	H
13569.200	51.16	-29.50	40.43	40.23	68.30	17.14	H
11450.600	47.36	-32.26	38.84	40.79	74.00	26.64	H
11140.400	46.87	-32.60	38.75	40.73	74.00	27.13	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17730.000	53.43	-25.74	45.95	33.22	74.00	20.57	H
17297.100	52.33	-25.95	44.35	33.92	68.30	15.97	H
16543.000	51.76	-26.96	39.82	38.90	68.30	16.54	H
16597.500	51.44	-26.87	40.65	37.66	68.30	16.86	V
11914.200	47.18	-31.48	39.09	39.57	74.00	26.82	V
10972.100	47.07	-32.82	38.70	41.19	74.00	26.93	H

802.11ac-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.800	52.96	-25.50	46.66	31.80	74.00	21.04	H
17627.100	52.69	-25.74	45.95	32.48	68.30	15.61	V
13548.300	50.47	-29.56	39.99	40.04	68.30	17.83	V
16862.000	50.45	-26.62	41.49	35.58	68.30	17.85	H
11943.400	47.50	-31.48	39.09	39.89	74.00	26.50	H
11968.700	46.82	-31.48	39.09	39.21	74.00	27.18	V

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	52.86	-25.50	46.66	31.70	74.00	21.14	V
17705.800	51.92	-25.74	45.95	31.71	74.00	22.08	V
16827.400	50.78	-26.62	41.49	35.91	68.30	17.52	V
16561.800	50.69	-26.87	40.65	36.91	68.30	17.61	V
11935.100	47.32	-31.48	39.09	39.71	74.00	26.68	V
11995.600	47.09	-31.48	39.09	39.48	74.00	26.91	H

802.11ac-HT80

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17614.500	52.53	-25.74	45.95	32.32	68.30	15.77	V
17830.000	52.25	-25.50	46.66	31.09	74.00	21.75	V
16842.200	51.24	-26.62	41.49	36.37	68.30	17.06	V
16553.000	50.84	-26.87	40.65	37.06	68.30	17.46	V
11862.500	47.25	-31.85	39.05	40.05	74.00	26.75	V
11037.500	46.88	-32.49	38.72	40.64	74.00	27.12	H

802.11ax-HT20

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17314.700	52.44	-25.95	44.35	34.03	68.30	15.86	H
17948.800	52.28	-25.5	46.66	31.12	74.00	21.72	V
16756.500	50.57	-26.62	41.49	35.70	68.30	17.73	V
16521.600	50.53	-26.96	39.82	37.67	68.30	17.77	V
9726.900	47.1	-33	38.01	42.10	68.30	21.20	V
11855.400	46.82	-31.85	39.05	39.62	74.00	27.18	V

Channel 157

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17665.600	52.84	-25.74	45.95	32.63	68.30	15.46	V
17763.000	52.2	-25.5	46.66	31.04	74.00	21.80	H
16567.800	51.33	-26.87	40.65	37.55	68.30	16.97	H
16576.000	50.85	-26.87	40.65	37.07	68.30	17.45	V
11034.800	47.99	-32.49	38.72	41.75	74.00	26.01	H
10475.500	47.56	-32.99	38.27	42.27	68.30	20.74	H

Channel 165

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.700	53.23	-25.5	46.66	32.07	74.00	20.77	V
17373.000	52.38	-25.95	44.35	33.97	68.30	15.92	V
16941.800	51.53	-26.32	42.36	35.48	68.30	16.77	V
16559.500	51.14	-26.87	40.65	37.36	68.30	17.16	H
11936.200	47.21	-31.48	39.09	39.60	74.00	26.79	V
11463.200	47.02	-32.26	38.84	40.45	74.00	26.98	V

802.11ax-HT40

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17888.900	52.68	-25.5	46.66	31.52	74.00	21.32	H
17733.800	52.25	-25.74	45.95	32.04	74.00	21.75	H
16561.800	50.98	-26.87	40.65	37.20	68.30	17.32	H
13649.500	50.75	-29.5	40.43	39.82	68.30	17.55	H
11946.700	47.16	-31.48	39.09	39.55	74.00	26.84	H
11821.900	46.84	-31.85	39.05	39.64	74.00	27.16	H

Channel 159

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17786.000	52.95	-25.5	46.66	31.79	74.00	21.05	H
17785.500	52.46	-25.5	46.66	31.30	74.00	21.54	V
16541.400	51.12	-26.96	39.82	38.26	68.30	17.18	V
16903.300	51.00	-26.32	42.36	34.95	68.30	17.30	V
10520.000	46.82	-32.99	38.27	41.53	68.30	21.48	H
11928.500	46.71	-31.48	39.09	39.10	74.00	27.29	V

802.11ax-HT80

Ch155

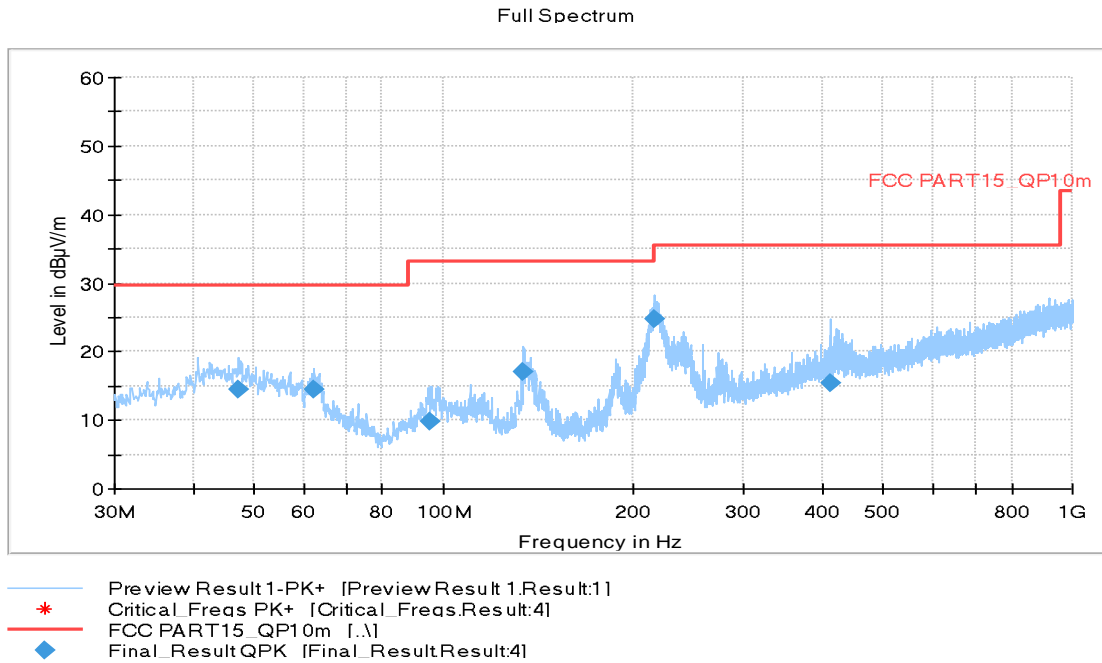
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.700	52.72	-25.5	46.66	31.56	74.00	21.28	V
17985.200	52.29	-25.5	46.66	31.13	74.00	21.71	H
16946.200	50.62	-26.32	42.36	34.57	68.30	17.68	V
16760.800	50.55	-26.62	41.49	35.68	68.30	17.75	H
11522.600	47.05	-32.26	38.84	40.48	74.00	26.95	V
11133.800	46.93	-32.6	38.75	40.79	74.00	27.07	H

Note: the spurious emission above 18G is noise only

Conclusion: pass

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 1GHz



Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)
47.26600	14.39	29.54	15.15	2000.0	120.000	110.0	V	99.0
62.30100	14.41	29.54	15.13	2000.0	120.000	213.0	V	270.0
95.47500	9.87	33.06	23.19	2000.0	120.000	325.0	H	203.0
134.1780	17.14	33.06	15.92	2000.0	120.000	109.0	V	196.0
215.9490	24.86	33.06	8.20	2000.0	120.000	325.0	H	203.0
412.1800	15.35	35.56	20.21	2000.0	120.000	175.0	H	270.0

Note: 10 meters' limit is got by converting from 3 meters test distance.

Limit (10m) = limit (3m) + 20(log (3/10))

BELOW 30MHz

There are no emissions found below 30MHz with in 20dB of the limit.

C.1.3 Band Edges Compliance– Radiated

Measurement Result:

Mode	Channel	Test Results	Conclusion
802.11a	5745 MHz(CH149)	Fig.1	P
	5825 MHz(CH165)	Fig.2	P
802.11n HT20	5745 MHz(CH149)	Fig.3	P
	5825 MHz(CH165)	Fig.4	P
802.11n HT40	5755 MHz(CH151)	Fig.5	P
	5795 MHz(CH159)	Fig.6	P
802.11ac HT20	5745 MHz(CH149)	Fig.7	P
	5825 MHz(CH165)	Fig.8	P
802.11ac HT40	5755 MHz(CH151)	Fig.9	P
	5795 MHz(CH159)	Fig.10	P
802.11ac HT80	5775 MHz(CH155)	Fig.11	P
		Fig.12	
802.11ax HT20	5745 MHz(CH149)	Fig.13	P
	5825 MHz(CH165)	Fig.14	P
802.11ax HT40	5755 MHz(CH151)	Fig.15	P
	5795 MHz(CH159)	Fig.16	P
802.11ax HT80	5775 MHz(CH155)	Fig.17	P
		Fig.18	

The measurements were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this section.

Conclusion: PASS

Test graphs as below:

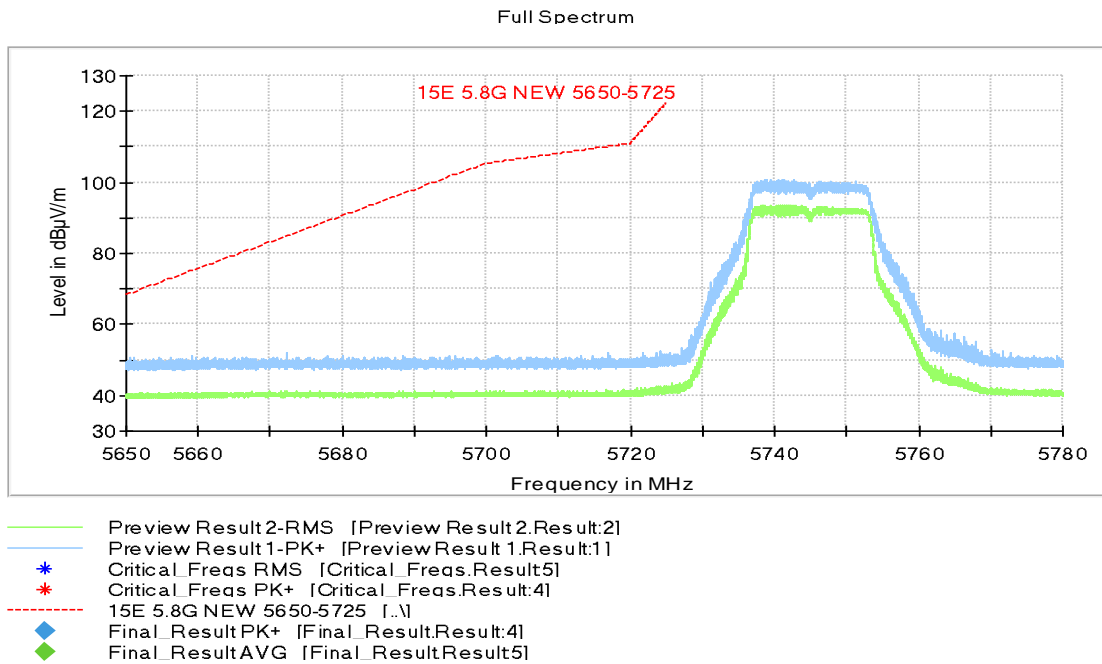


Fig. 1 Band Edges (802.11a,CH149, 5745MHz)

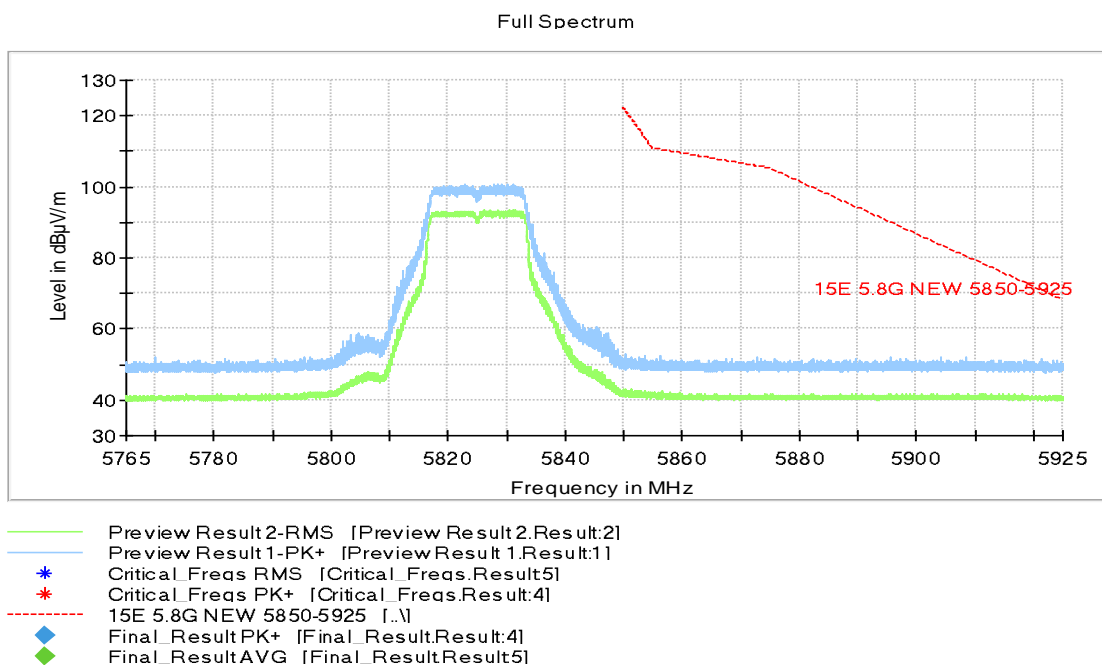


Fig. 2 Band Edges (802.11a, CH165, 5825MHz)

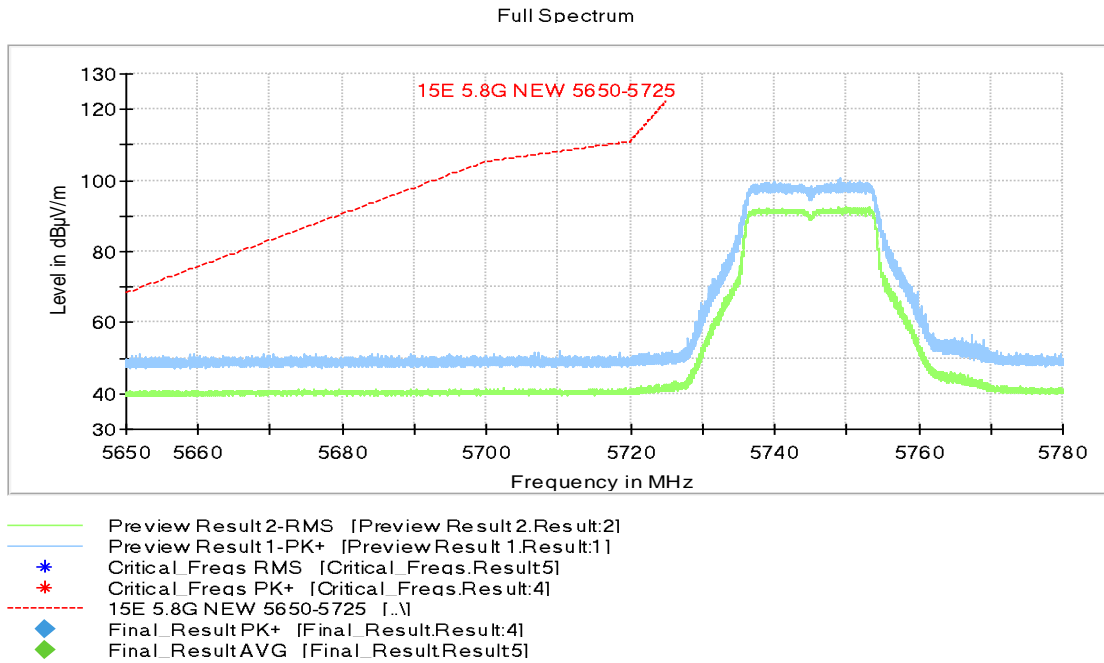


Fig. 3 Band Edges (802.11n-HT20, CH149, 5745MHz)

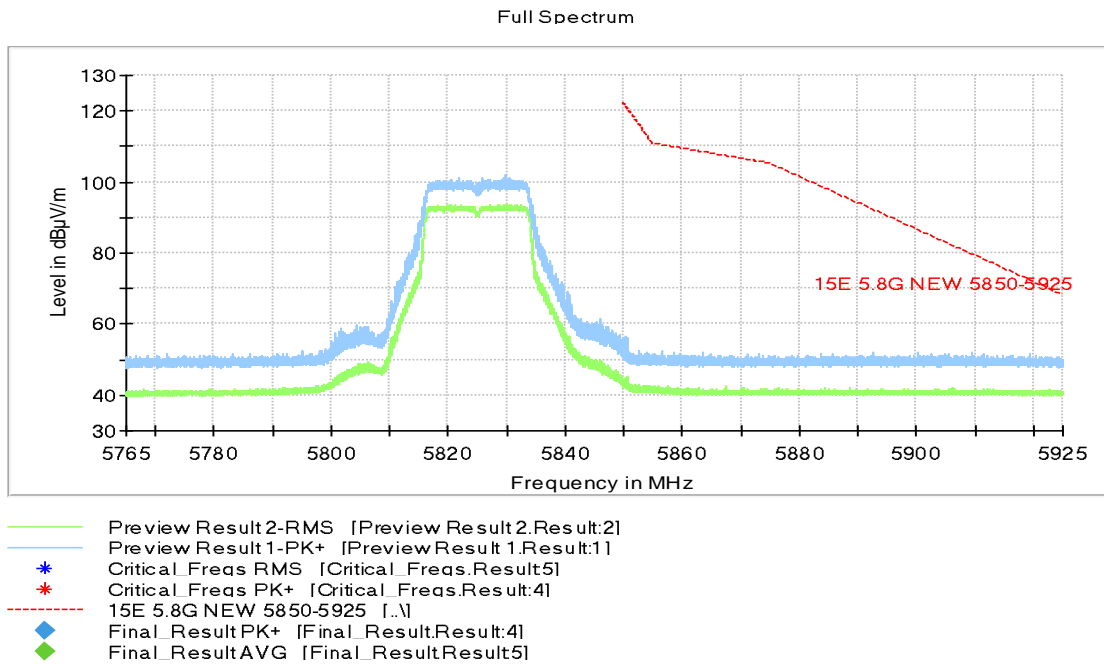


Fig. 4 Band Edges (802.11n-HT20, CH165, 5825MHz)

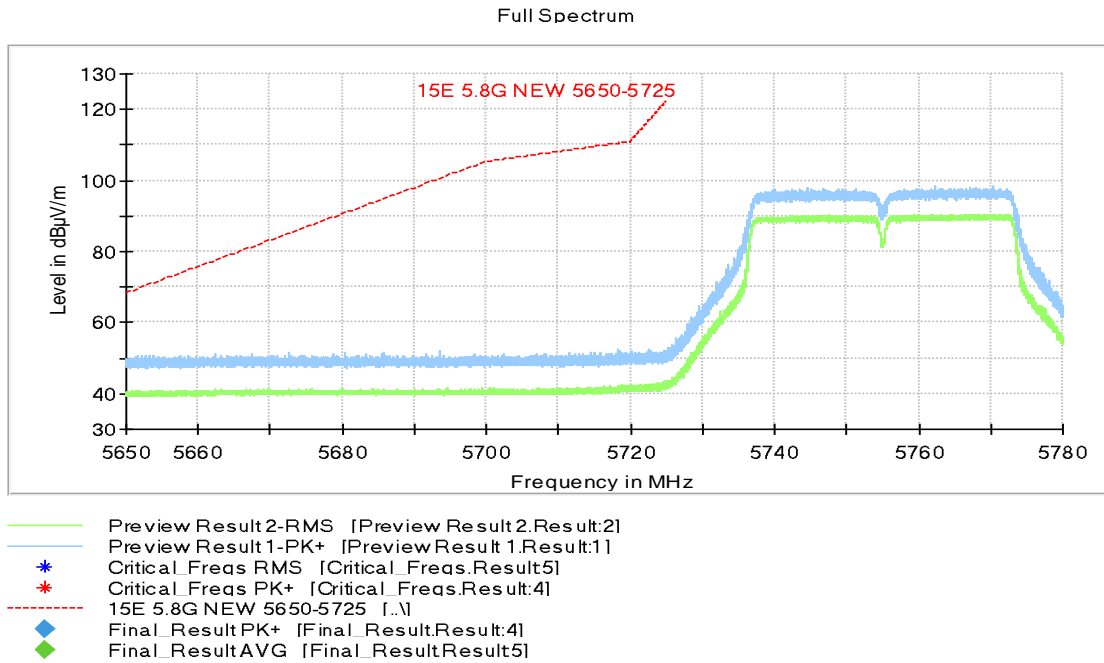


Fig. 5 Band Edges (802.11n-HT40, CH151, 5755MHz)

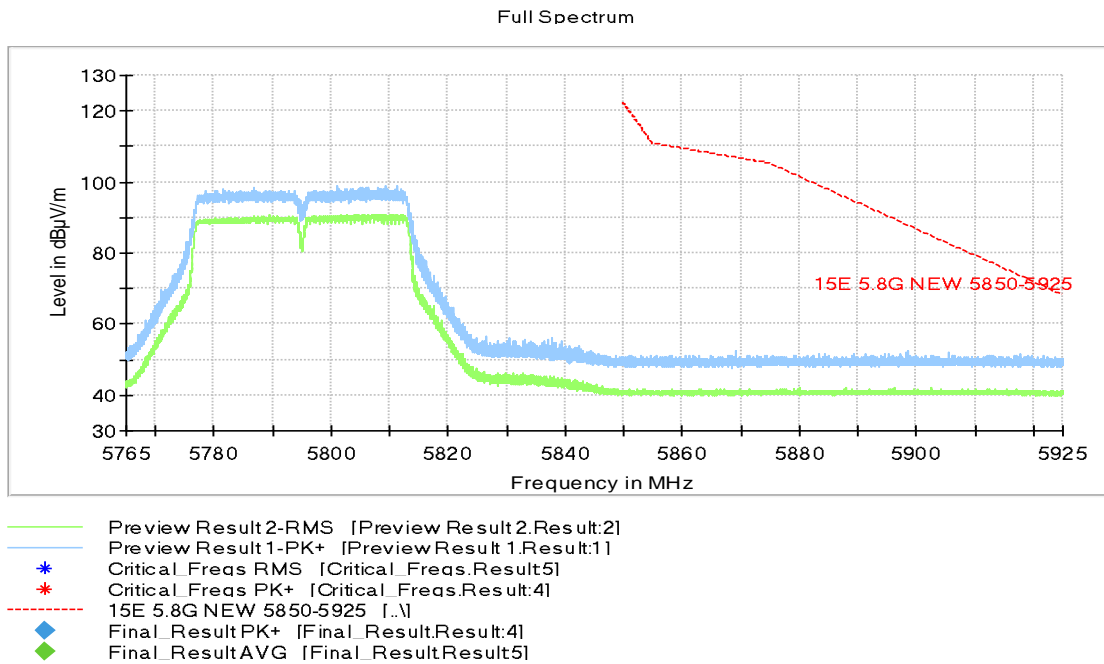


Fig. 6 Band Edges (802.11n-HT40, CH159, 5795MHz)

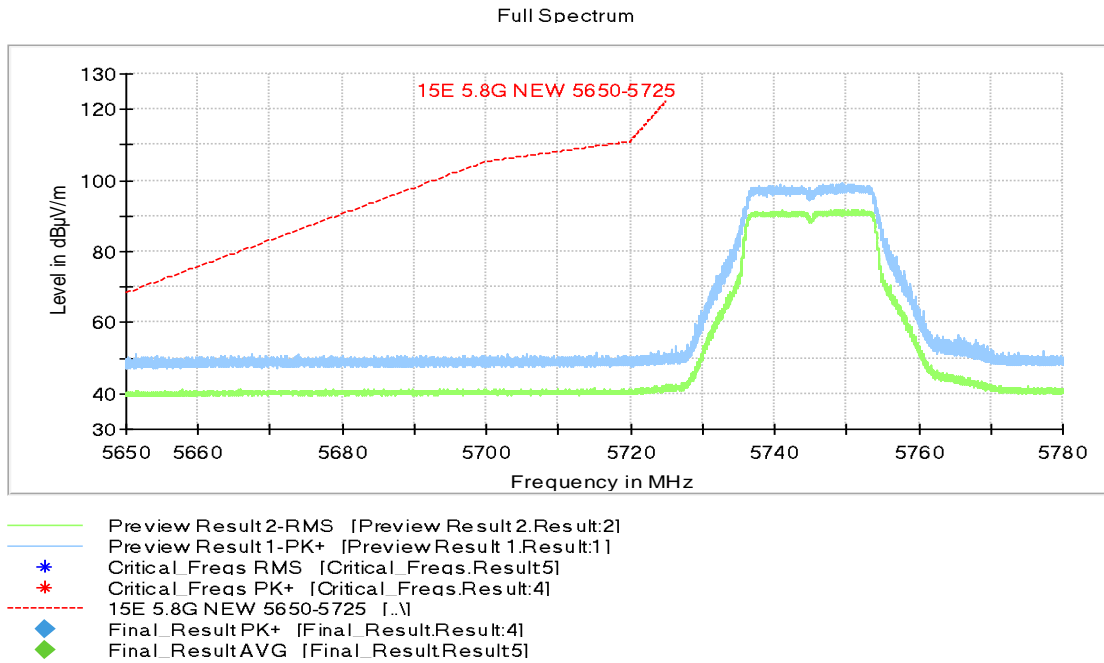


Fig. 7 Band Edges (802.11ac-HT20, CH149, 5745MHz)

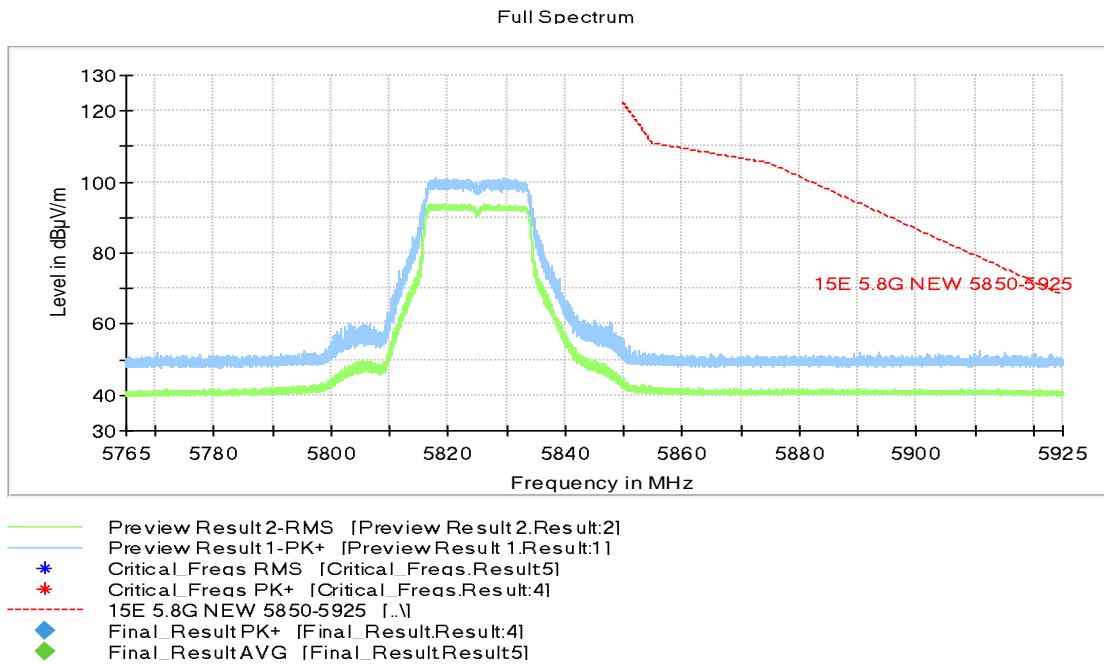


Fig. 8 Band Edges (802.11ac-HT20, CH165, 5825MHz)

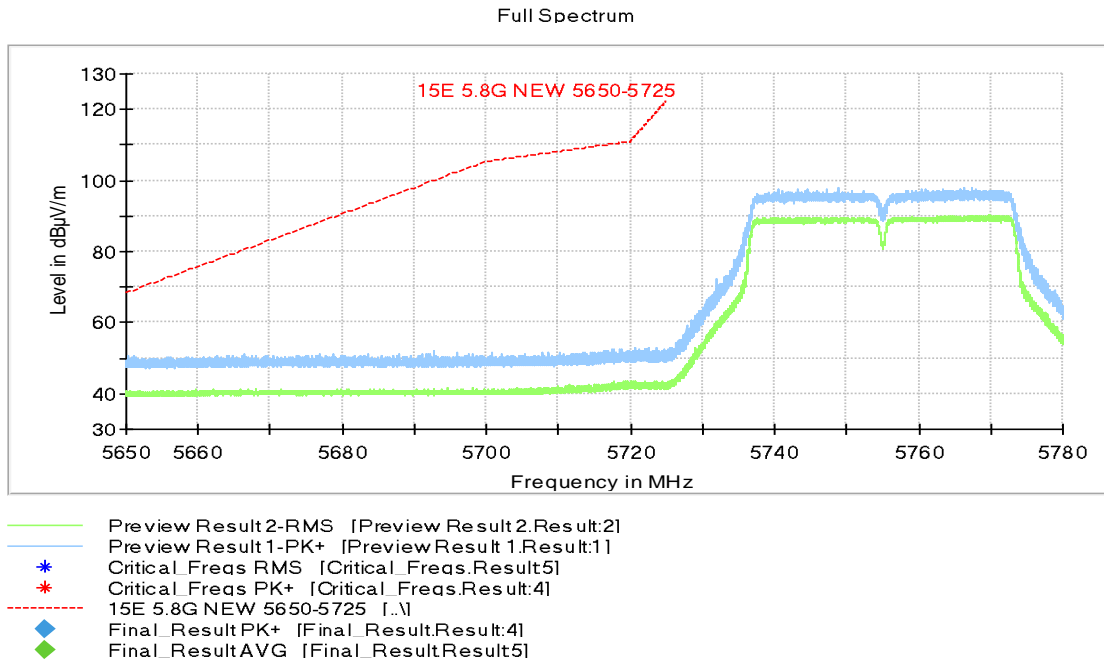


Fig. 9 Band Edges (802.11ac-HT40,CH151, 5755MHz)

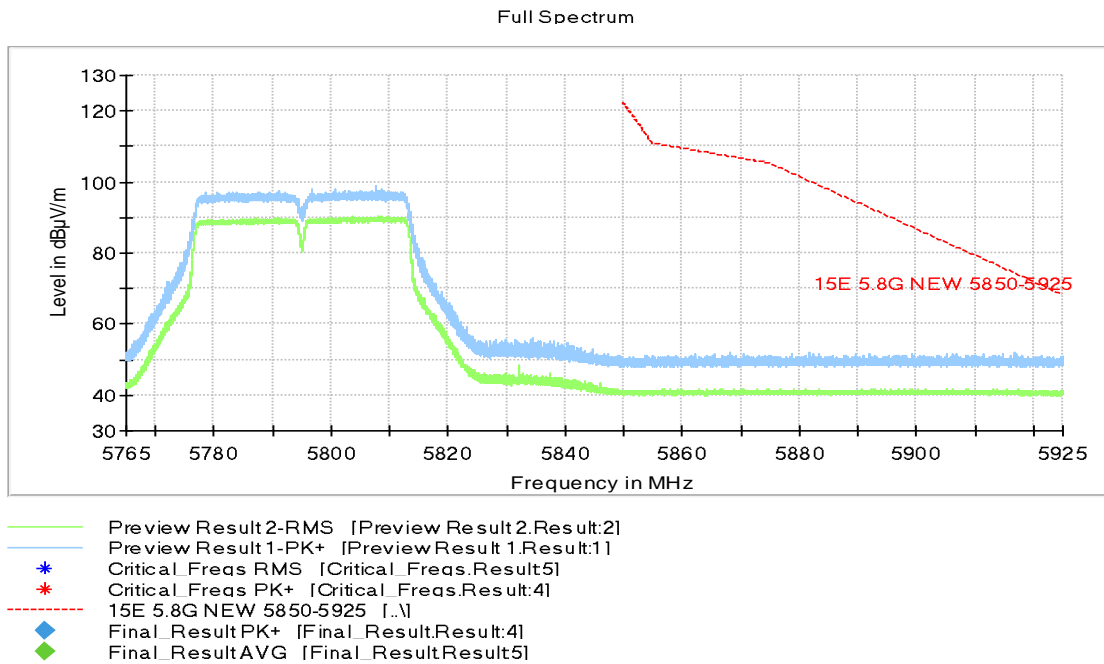


Fig. 10 Band Edges (802.11ac-HT40,CH159, 5795MHz)

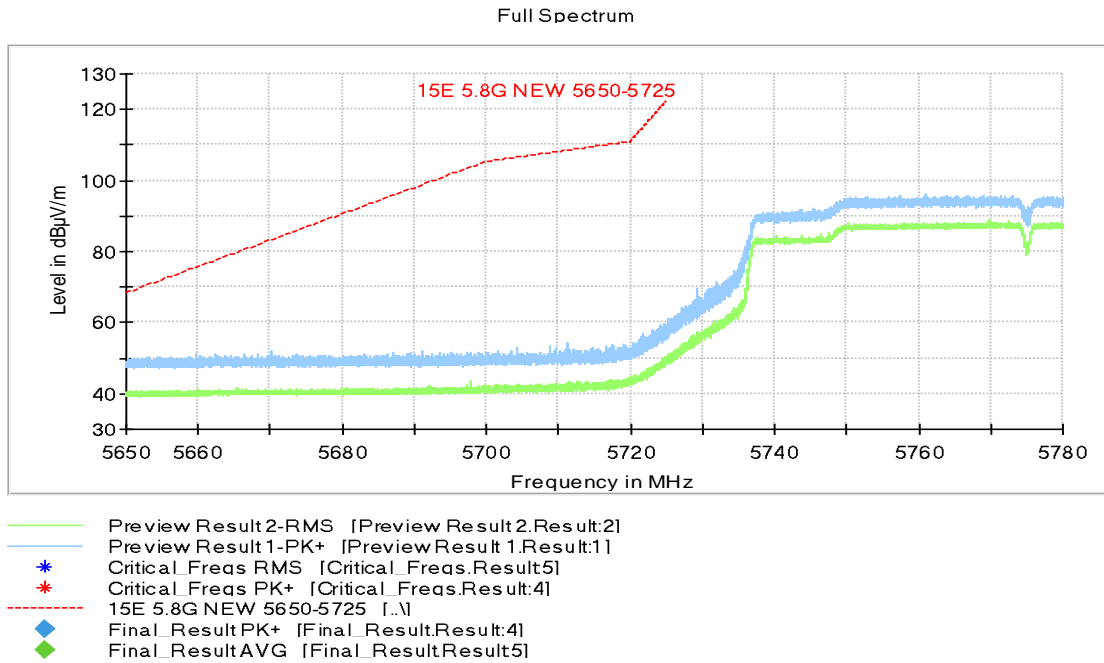


Fig. 11 Band Edges (802.11ac-HT80, CH155, 5775MHz)

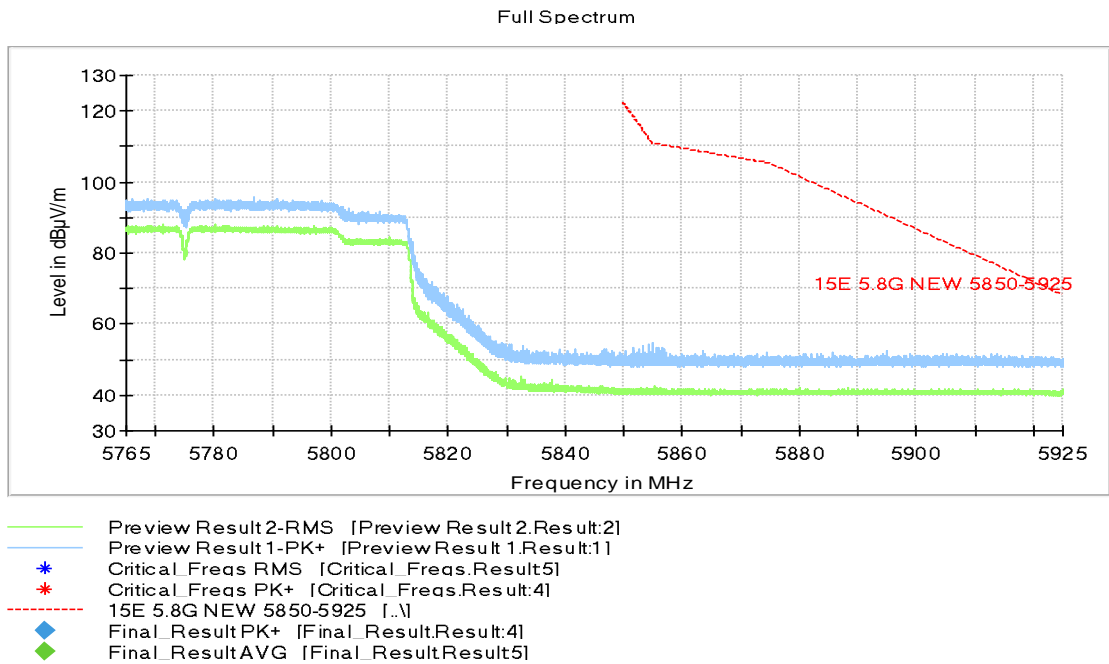


Fig. 12 Band Edges (802.11ac-HT80, CH155, 5775MHz)

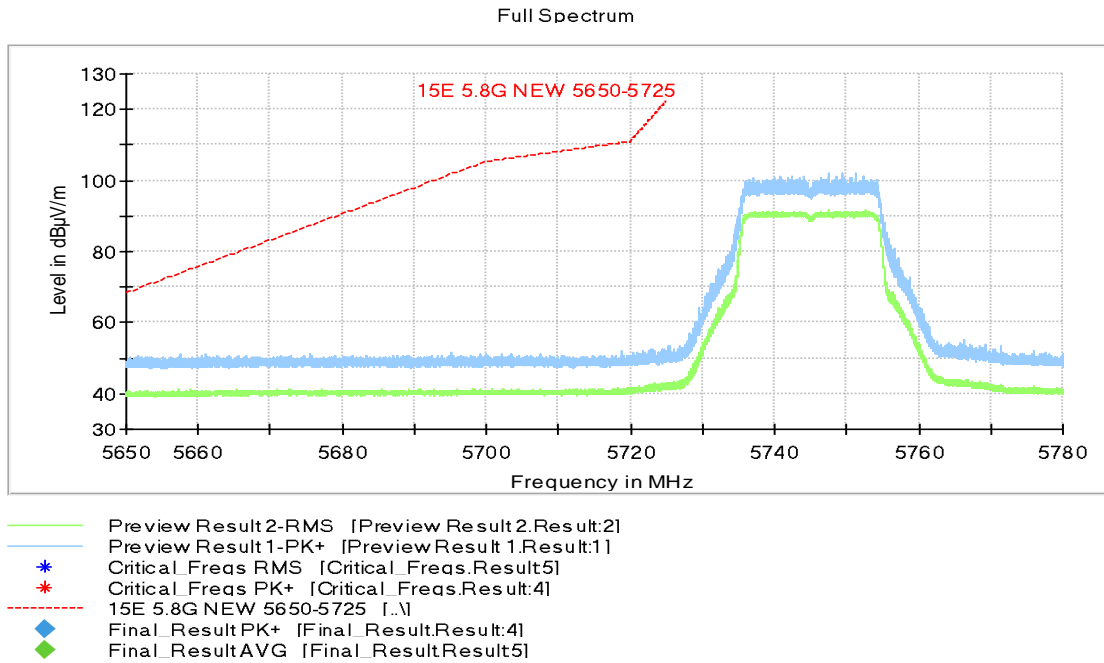


Fig. 13 Band Edges (802.11ax-HT20, CH149, 5745MHz)

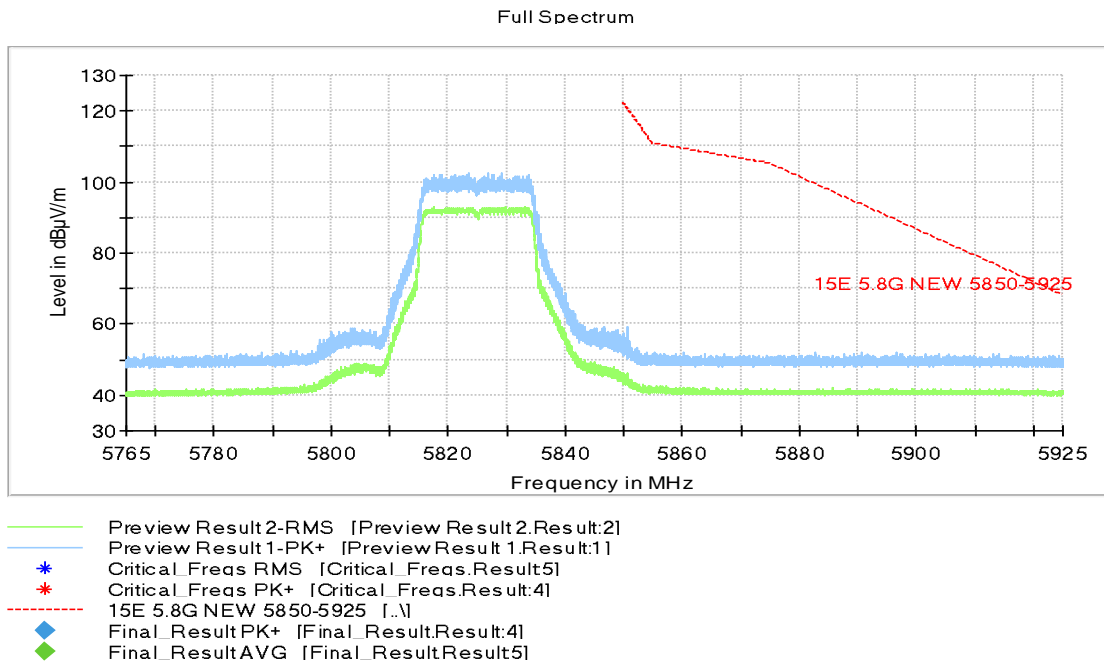


Fig. 14 Band Edges (802.11ax-HT20, CH165, 5825MHz)

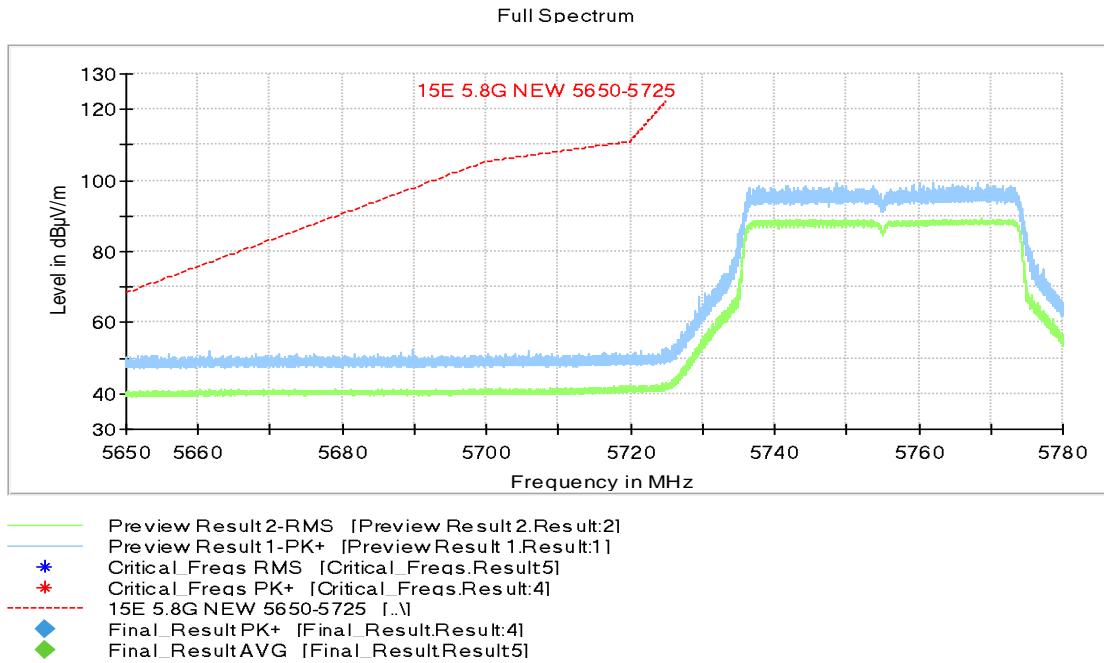


Fig. 15 Band Edges (802.11ax-HT40,CH151, 5755MHz)

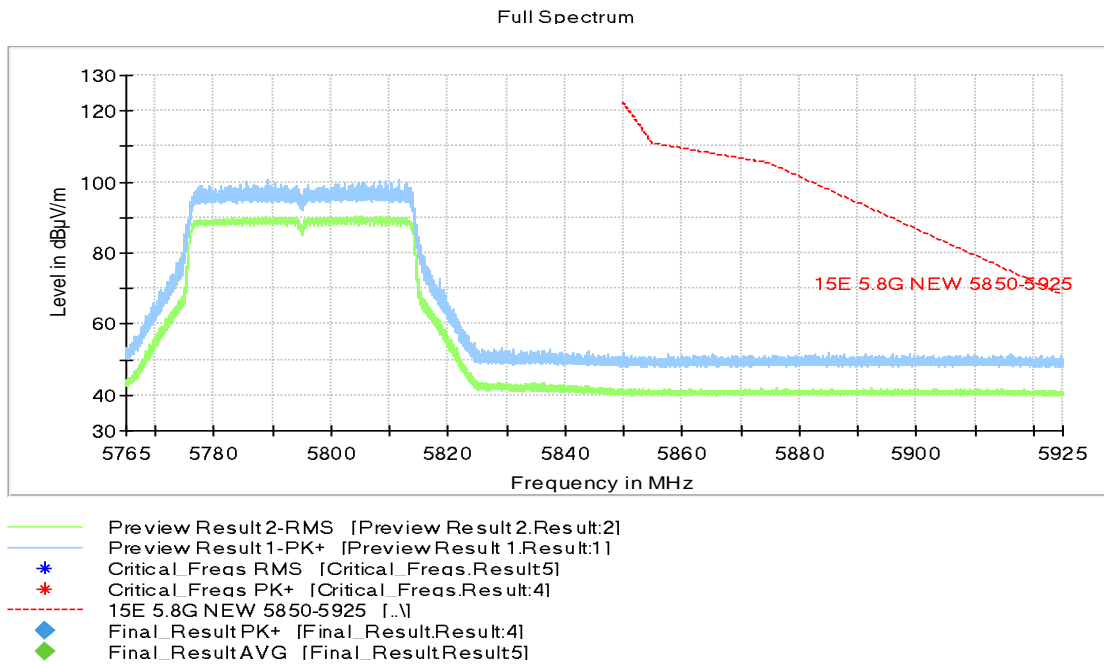


Fig. 16 Band Edges (802.11ax-HT40,CH159, 5795MHz)

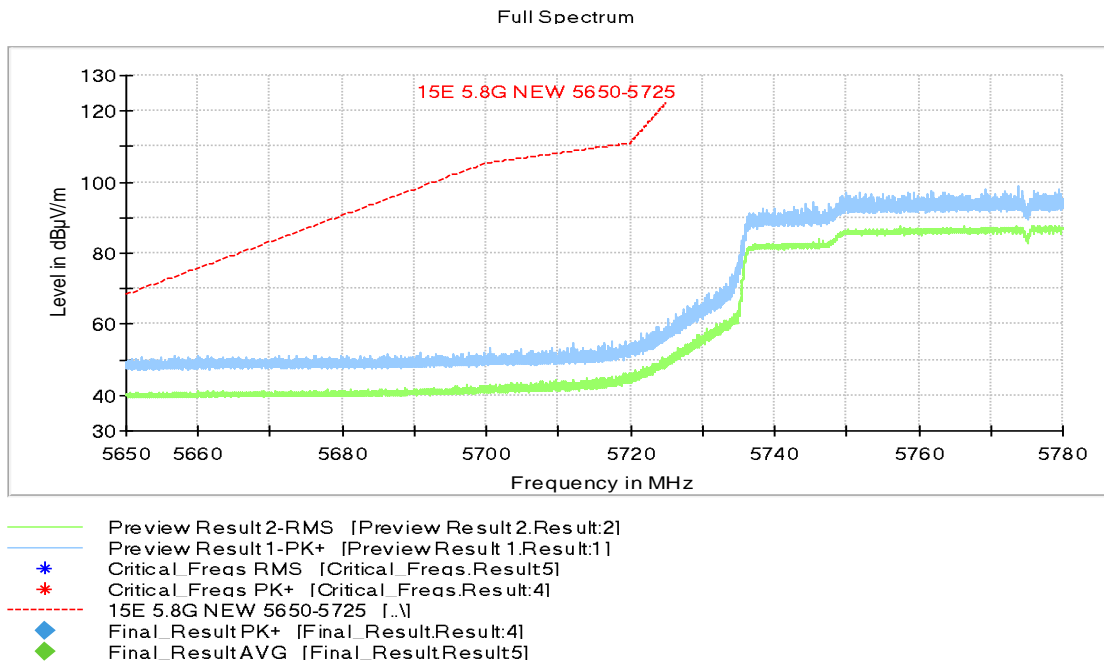


Fig. 17 Band Edges (802.11ax-HT80, CH155, 5775MHz)

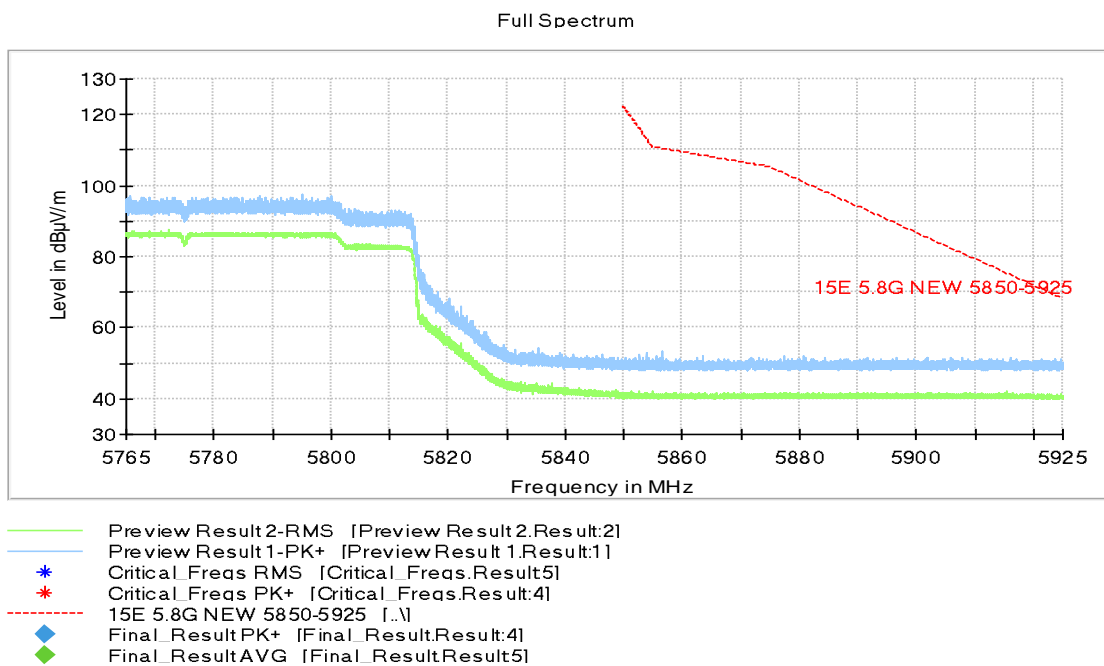


Fig. 18 Band Edges (802.11ax-HT80, CH155, 5775MHz)

C.2. AC Power-line Conducted Emission

Reference

FCC 47 CFR Part 15, Clause 15.407, Clause 15.207

Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

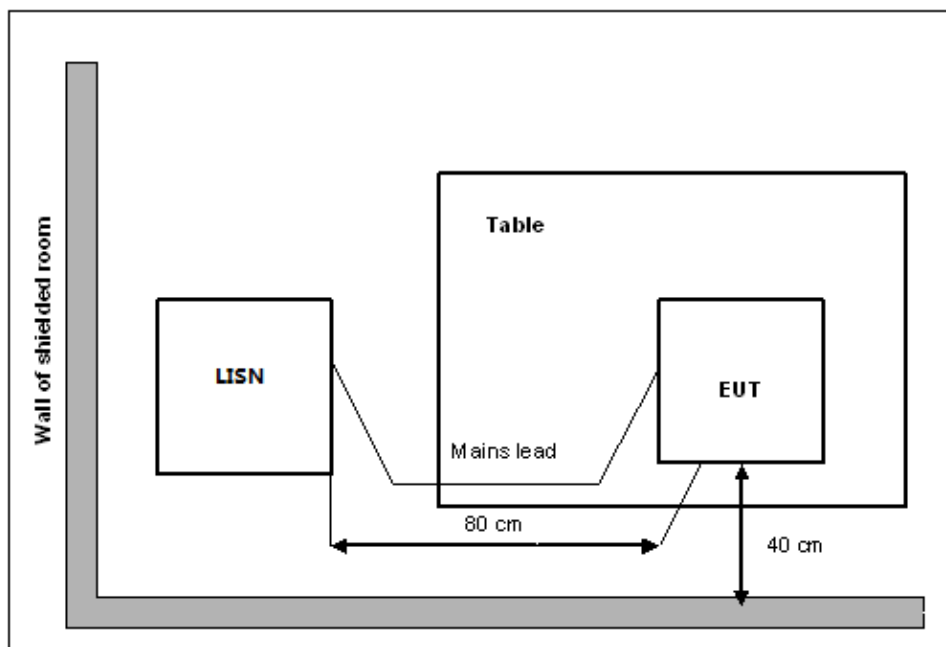
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth	Sweep Time(s)
0.15-30	9kHz	1

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Setup



EUT Operating Mode and Test Conditions

The measurement of EUT is carried out under the transmit state.

The EUT is powered by an AC/DC travel adapter.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Note: all modes have been tested and the worst results shown here.

Conclusion: Pass

Test graphs as below:

Traffic:

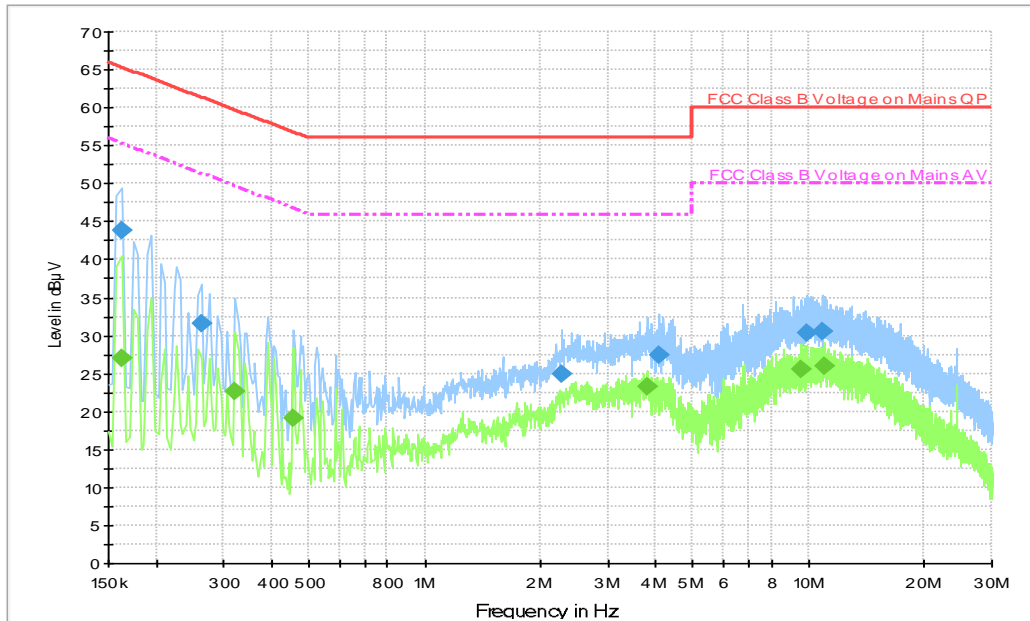


Fig.C.2.1 AC Power line Conducted Emission-802.11a

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.162000	43.9	5000.	9.000	L1	20.0	21.5	65.4
0.262000	31.6	5000.	9.000	L1	20.0	29.7	61.4
2.266000	24.9	5000.	9.000	L1	19.5	31.1	56.0
4.082000	27.5	5000.	9.000	L1	19.6	28.5	56.0
9.902000	30.4	5000.	9.000	L1	19.7	29.6	60.0
10.910000	30.6	5000.	9.000	L1	19.7	29.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.162000	27.0	5000.0	9.000	L1	20.0	28.3	55.4
0.322000	22.7	5000.0	9.000	N	19.8	27.0	49.7
0.454000	19.1	5000.0	9.000	N	19.9	27.7	46.8
3.802000	23.3	5000.0	9.000	L1	19.5	22.7	46.0
9.534000	25.6	5000.0	9.000	L1	19.6	24.4	50.0
11.058000	26.0	5000.0	9.000	L1	19.6	24.0	50.0

Idle:

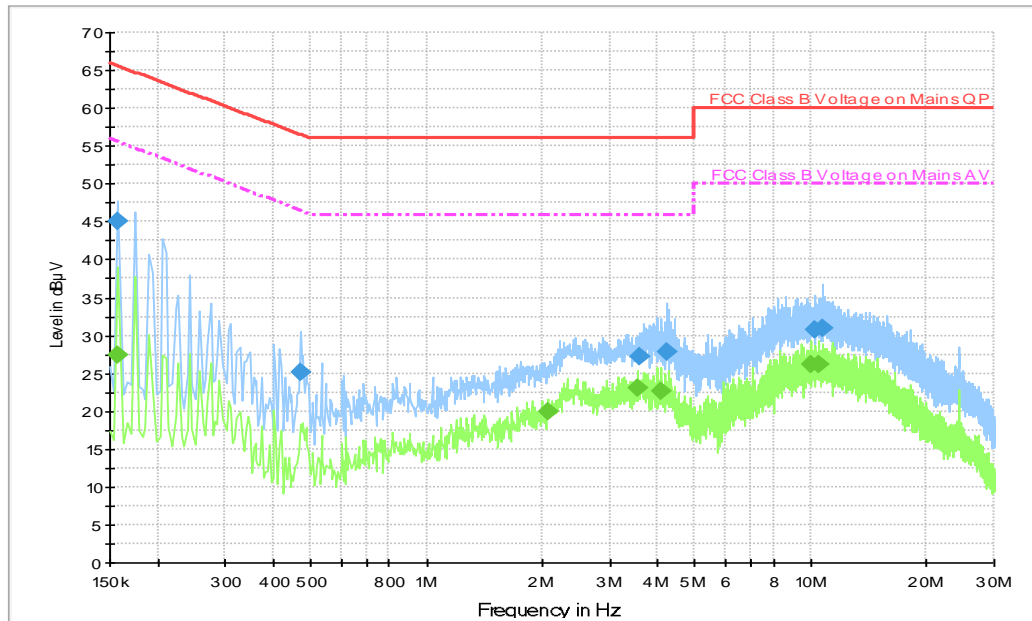


Fig.C.2.2 AC Power line Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	45.0	5000.	9.000	N	19.7	20.6	65.6
0.470000	25.2	5000.	9.000	N	20.0	31.3	56.5
3.594000	27.3	5000.	9.000	L1	19.5	28.7	56.0
4.214000	27.9	5000.	9.000	L1	19.6	28.1	56.0
10.198000	30.7	5000.	9.000	L1	19.7	29.3	60.0
10.738000	31.0	5000.	9.000	L1	19.7	29.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	27.5	5000.0	9.000	N	19.7	28.1	55.6
2.070000	20.0	5000.0	9.000	N	19.7	26.0	46.0
3.546000	23.0	5000.0	9.000	L1	19.5	23.0	46.0
4.070000	22.7	5000.0	9.000	L1	19.6	23.3	46.0
10.070000	26.1	5000.0	9.000	L1	19.7	23.9	50.0
10.526000	26.2	5000.0	9.000	L1	19.7	23.8	50.0

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