FCC PART 15
TEST REPORT
No. I22Z60151-EMC06

for

Honor Device Co., Ltd.

Smart Phone

Model Name: LGE-NX9

with

FCC ID: 2AYGCLGE-NX9

Hardware Version: HN1LGEHM

Software Version: 6.0.0.108(C900E103R1P3)

Issued Date: 2022-04-20

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.

Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60151-EMC06	Rev.0	1st edition	2022-04-20

CONTENTS

1. TEST LATORATORY

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

Location1: CTTL(BDA)

Address: No. 18A, Kangding Street, Beijing Economic-Technology Development Area, Beijing, 100176, P.R. China

Location2: CTTL (Huayuan North Road)

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

1.3. TestingEnvironment

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2022-02-07

Testing End Date: 2022-03-25

1.5. Signature

An Hui

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. CLIENT INFORMATION

2.1 Applicant Information

Company Name:	Honor Device Co., Ltd.
Address /Post:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact:	/
Email:	/
Telephone:	/

2.2 Manufacturer Information

Company Name:	Honor Device Co., Ltd.
Address /Post:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
Contact:	/
Email:	/
Telephone:	/

3. PRODUCT INFORMATION

3.1. About EUT

Description	Smart Phone
Model name	LGE-NX9
FCC ID	2AYGCLGE-NX9

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*	SN or IMEI	HW Version	SW Version
EUT1	867843050023477/ 867843050024970	HN1LGEHM	6.0.0.108(C900E103R1P3)
EUT2	867843050056592/ 867843050057699	HN1LGEHM	6.0.0.108(C900E103R1P3)

*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	Note
AE1-1	Adapter	HN-200500U01
AE1-2	Adapter	HN-200500E01
AE1-3	Adapter	HN-200500B01
AE2-1	USB Cable	L125UC008-CS-H
AE2-2	USB Cable	AU2-CRO015HF
AE2-3	USB Cable	RY0001
AE4-1	Battery	HB586680EFW(SUNWODA)
AE4-2	Battery	HB586680EFW(SCUD)

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

3.4. General Description

LGE-NX9 is subscriber equipment in the GSM/WCDMA/LTE/NR system. The Mobile Phone implements such functions as RF signal receiving/transmitting, NR/LTE/UMTS and GSM/GPRS/EDGE protocol processing, voice, video MMS service, GPS, AGPS, Wi-Fi etc. dual SIM/single SIM card interface. LGE-NX9 is dual/single SIM smart phone. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet , or to exchange data with other Bluetooth devices.

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 all modes the EUT can transmit at both CHAIN A(Chain A) and CHAIN B(Chain B) RF outputs individually, and also simultaneously(MIMO).

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	26℃
Voltage	V nom	4.0V
Humidity	H nom	20-75%

6. TEST EQUIPMENTS UTILIZED

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2022-12-22
2	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2022-07-01
3	EMI Antenna	VULB9163	9163-483	Schwarzbeck	1 year	2022-08-24
4	Test Receiver	ESW44	103023	R&S	1 year	2022-10-28
5	EMI Antenna	LB-18040025 -C-KF	2110084000 006	A-INFO	1 year	2023-02-23
6	Analytical Spectrometer	FSV40	101047	R&S	1 year	2022-06-02

AC Powerline Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101200	Rohde & Schwarz	1 year	2022-05-30
2	Test Receiver	ESCI 7	100344	Rohde & Schwarz	1 year	2023-02-21

7. Measurement Uncertainty

Radiated Spurious Emission

Frequency Range	Uncertainty(dB) (k=2)
9kHz-30MHz	/
30MHz ≤ f ≤ 1GHz	5.16
1GHz ≤ f ≤18GHz	5.74
18GHz ≤ f ≤40GHz	5.28

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

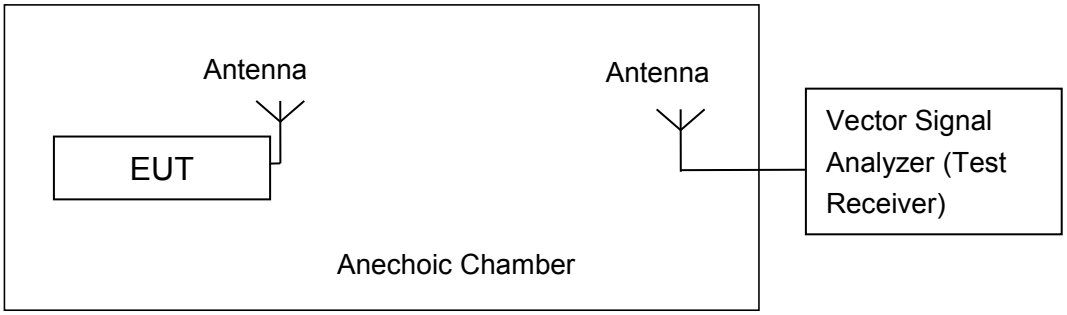
C.1. Radiated Spurious Emission

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
FCC 47 CFR Part 15.407 RSS-247, 6.2	(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 e.i.r.p. of −27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

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(μV/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(dBμV/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/VBW
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=EIRP- 20log (*D)* +104.77
Where:
E is the field strength in dBμV/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:
Result=P_{Mea}+$A_{Rpl=}$ P_{Mea}+Cable Loss+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. For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

C.1.1 Radiated Spurious Emission- above 1GHz

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

Results Set.1-1, MIMO

AVERAGE Results:

802.11a

Channel 36

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)
17992.800	42.23	-25.50	46.66	21.07	54.00	11.77	H
17986.800	42.13	-25.50	46.66	20.97	54.00	11.87	V
13332.100	38.77	-29.49	39.71	28.55	54.00	15.23	H
13346.500	38.64	-29.49	39.71	28.42	54.00	15.36	V
5150.000	42.39	-27.61	33.67	36.33	54.00	11.61	H
5150.000	42.35	-27.61	33.67	36.29	54.00	11.65	H

Channel 40

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)
17994.000	42.41	-25.50	46.66	21.25	54.00	11.59	H
17998.900	42.22	-25.50	46.66	21.06	54.00	11.78	H
13328.300	38.45	-29.49	39.71	28.23	54.00	15.55	H
14498.100	38.36	-28.59	42.46	24.49	54.00	15.64	H
11863.600	36.51	-31.85	39.05	29.31	54.00	17.49	V
11043.600	36.36	-32.49	38.72	30.12	54.00	17.64	H

Channel 48

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)
17997.800	42.32	-25.50	46.66	21.16	54.00	11.68	V
17995.000	42.21	-25.50	46.66	21.05	54.00	11.79	V
13344.800	38.61	-29.49	39.71	28.39	54.00	15.39	V
13340.400	38.60	-29.49	39.71	28.38	54.00	15.40	V
11461.000	36.41	-32.26	38.84	29.84	54.00	17.59	H
11919.800	36.33	-31.48	39.09	28.72	54.00	17.67	V

Channel 52

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)
17995.000	42.01	-25.50	46.66	20.85	54.00	11.99	V
17745.300	41.84	-25.50	46.66	20.68	54.00	12.16	H
14489.900	38.19	-28.59	42.46	24.32	54.00	15.81	V
14495.400	38.14	-28.59	42.46	24.27	54.00	15.86	H
11884.000	36.31	-31.85	39.05	29.11	54.00	17.69	V
11042.500	36.22	-32.49	38.72	29.98	54.00	17.78	V

Channel 56

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)
17997.200	42.20	-25.50	46.66	21.04	54.00	11.80	H
17921.300	42.03	-25.50	46.66	20.87	54.00	11.97	H
14486.600	38.14	-28.59	42.46	24.27	54.00	15.86	H
14490.500	38.14	-28.59	42.46	24.27	54.00	15.86	V
11867.000	36.44	-31.85	39.05	29.24	54.00	17.56	V
11895.500	36.37	-31.85	39.05	29.17	54.00	17.63	H

Channel 64

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)
17996.200	42.12	-25.50	46.66	20.96	54.00	11.88	V
17997.200	42.12	-25.50	46.66	20.96	54.00	11.88	V
13365.100	38.12	-29.49	39.71	27.90	54.00	15.88	V
13342.000	38.11	-29.49	39.71	27.89	54.00	15.89	V
5350.400	47.39	-27.43	34.01	40.81	54.00	6.61	H
5350.600	47.22	-27.43	34.01	40.64	54.00	6.78	H

Channel 100

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)
17982.400	42.66	-25.50	46.66	21.50	54.00	11.34	H
17948.300	42.65	-25.50	46.66	21.49	54.00	11.35	V
13342.600	38.83	-29.49	39.71	28.61	54.00	15.17	V
13330.500	38.79	-29.49	39.71	28.57	54.00	15.21	V
5455.600	41.23	-27.18	34.17	34.24	54.00	12.77	H
5459.900	41.20	-27.18	34.17	34.21	54.00	12.80	H

Channel 116

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)
17994.000	42.57	-25.50	46.66	21.41	54.00	11.43	V
17995.600	42.34	-25.50	46.66	21.18	54.00	11.66	H
13344.800	38.62	-29.49	39.71	28.40	54.00	15.38	V
13312.900	38.44	-29.49	39.71	28.22	54.00	15.56	V
11995.100	36.65	-31.48	39.09	29.04	54.00	17.35	V
11051.300	36.60	-32.49	38.72	30.36	54.00	17.40	V

Channel 140

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)
17869.100	42.31	-25.50	46.66	21.15	54.00	11.69	H
17885.600	42.25	-25.50	46.66	21.09	54.00	11.75	V
13342.000	38.54	-29.49	39.71	28.32	54.00	15.46	V
14498.700	38.41	-28.59	42.46	24.54	54.00	15.59	V
11046.900	36.52	-32.49	38.72	30.28	54.00	17.48	V
11915.900	36.46	-31.48	39.09	28.85	54.00	17.54	H

Channel 144

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	42.44	-25.50	46.66	21.28	54.00	11.56	V
17942.200	41.96	-25.50	46.66	20.80	54.00	12.04	V
13341.500	38.27	-29.49	39.71	28.05	54.00	15.73	V
13335.500	38.15	-29.49	39.71	27.93	54.00	15.85	H
11043.600	36.54	-32.49	38.72	30.30	54.00	17.46	H
11931.900	36.38	-31.48	39.09	28.77	54.00	17.62	H

802.11n-HT20

Channel 36

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)
17996.200	42.22	-25.50	46.66	21.06	54.00	11.78	H
17956.000	42.14	-25.50	46.66	20.98	54.00	11.86	V
13334.900	38.23	-29.49	39.71	28.01	54.00	15.77	H
14488.200	38.20	-28.59	42.46	24.33	54.00	15.80	H
5149.900	41.18	-27.61	33.67	35.12	54.00	12.82	H
5149.700	41.15	-27.61	33.67	35.09	54.00	12.85	H

Channel 40

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	42.23	-25.50	46.66	21.07	54.00	11.77	V
17987.900	42.17	-25.50	46.66	21.01	54.00	11.83	V
13339.900	38.26	-29.49	39.71	28.04	54.00	15.74	V
13331.000	38.23	-29.49	39.71	28.01	54.00	15.77	H
11049.100	36.81	-32.49	38.72	30.57	54.00	17.19	H
11865.900	36.46	-31.85	39.05	29.26	54.00	17.54	V

Channel 48

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)
17995.000	42.39	-25.50	46.66	21.23	54.00	11.61	H
17998.300	42.31	-25.50	46.66	21.15	54.00	11.69	V
14482.800	38.27	-28.59	42.46	24.40	54.00	15.73	H
13346.500	38.26	-29.49	39.71	28.04	54.00	15.74	V
11928.500	36.66	-31.48	39.09	29.05	54.00	17.34	H
11929.100	36.52	-31.48	39.09	28.91	54.00	17.48	V

Channel 52

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	42.11	-25.50	46.66	20.95	54.00	11.89	V
17988.500	42.01	-25.50	46.66	20.85	54.00	11.99	V
13330.500	38.25	-29.49	39.71	28.03	54.00	15.75	H
14494.900	38.12	-28.59	42.46	24.25	54.00	15.88	V
11048.500	36.38	-32.49	38.72	30.14	54.00	17.62	H
11863.600	36.31	-31.85	39.05	29.11	54.00	17.69	V

Channel 56

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)
17992.300	42.17	-25.50	46.66	21.01	54.00	11.83	V
17973.600	41.89	-25.50	46.66	20.73	54.00	12.11	H
13345.900	38.08	-29.49	39.71	27.86	54.00	15.92	V
13349.800	38.06	-29.49	39.71	27.84	54.00	15.94	V
11040.300	36.28	-32.49	38.72	30.04	54.00	17.72	H
11947.800	36.24	-31.48	39.09	28.63	54.00	17.76	V

Channel 64

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	42.21	-25.50	46.66	21.05	54.00	11.79	H
17952.200	41.94	-25.50	46.66	20.78	54.00	12.06	V
13338.200	38.27	-29.49	39.71	28.05	54.00	15.73	H
13332.700	38.21	-29.49	39.71	27.99	54.00	15.79	V
5350.600	41.92	-27.43	34.01	35.34	54.00	12.08	H
5350.800	41.86	-27.43	34.01	35.28	54.00	12.14	H

Channel 100

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	42.42	-25.50	46.66	21.26	54.00	11.58	V
17989.000	42.36	-25.50	46.66	21.20	54.00	11.64	V
13335.500	38.57	-29.49	39.71	28.35	54.00	15.43	H
14499.800	38.45	-28.59	42.46	24.58	54.00	15.55	V
5352.000	40.69	-27.43	34.01	34.11	54.00	13.31	H
5433.500	40.68	-27.18	34.17	33.69	54.00	13.32	H

Channel 116

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)
17980.800	42.57	-25.50	46.66	21.41	54.00	11.43	H
17995.600	42.16	-25.50	46.66	21.00	54.00	11.84	H
13327.800	38.25	-29.49	39.71	28.03	54.00	15.75	V
13330.000	38.22	-29.49	39.71	28.00	54.00	15.78	H
11926.900	36.38	-31.48	39.09	28.77	54.00	17.62	V
11913.700	36.36	-31.48	39.09	28.75	54.00	17.64	V

Channel 140

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)
17998.900	42.23	-25.50	46.66	21.07	54.00	11.77	H
17982.400	42.21	-25.50	46.66	21.05	54.00	11.79	H
13357.500	38.32	-29.49	39.71	28.10	54.00	15.68	V
13351.400	38.29	-29.49	39.71	28.07	54.00	15.71	H
11050.200	36.60	-32.49	38.72	30.36	54.00	17.40	V
11942.900	36.41	-31.48	39.09	28.80	54.00	17.59	H

Channel 144

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)
17983.500	42.05	-25.50	46.66	20.89	54.00	11.95	H
17882.300	42.04	-25.50	46.66	20.88	54.00	11.96	V
13352.000	38.23	-29.49	39.71	28.01	54.00	15.77	H
13330.500	38.07	-29.49	39.71	27.85	54.00	15.93	H
11942.300	36.30	-31.48	39.09	28.69	54.00	17.70	H
11037.000	36.19	-32.49	38.72	29.95	54.00	17.81	V

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Channel 38

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)
17942.200	42.17	-25.50	46.66	21.01	54.00	11.83	V
17985.200	41.98	-25.50	46.66	20.82	54.00	12.02	V
13329.400	38.22	-29.49	39.71	28.00	54.00	15.78	V
13345.900	38.09	-29.49	39.71	27.87	54.00	15.91	H
5149.900	42.81	-27.61	33.67	36.75	54.00	11.19	H
5150.000	42.80	-27.61	33.67	36.74	54.00	11.20	H

Channel 46

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)
17997.200	41.95	-25.50	46.66	20.79	54.00	12.05	H
17996.700	41.93	-25.50	46.66	20.77	54.00	12.07	H
14487.700	38.24	-28.59	42.46	24.37	54.00	15.76	V
14475.000	38.19	-28.59	42.46	24.32	54.00	15.81	V
11881.800	36.91	-31.85	39.05	29.71	54.00	17.09	V
11852.600	36.28	-31.85	39.05	29.08	54.00	17.72	H

Channel 54

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)
17991.200	42.02	-25.50	46.66	20.86	54.00	11.98	H
17992.300	41.93	-25.50	46.66	20.77	54.00	12.07	V
13358.500	38.25	-29.49	39.71	28.03	54.00	15.75	H
13332.100	38.15	-29.49	39.71	27.93	54.00	15.85	V
11841.600	36.32	-31.85	39.05	29.12	54.00	17.68	V
11929.600	36.31	-31.48	39.09	28.70	54.00	17.69	H

Channel 62

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)
17936.200	42.00	-25.50	46.66	20.84	54.00	12.00	H
17993.400	42.00	-25.50	46.66	20.84	54.00	12.00	V
14494.300	38.48	-28.59	42.46	24.61	54.00	15.52	H
13325.000	38.26	-29.49	39.71	28.04	54.00	15.74	V
5352.000	43.13	-27.43	34.01	36.55	54.00	10.87	H
5352.000	43.10	-27.43	34.01	36.52	54.00	10.90	H

Channel 102

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)
17991.800	42.04	-25.50	46.66	20.88	54.00	11.96	V
17991.200	42.01	-25.50	46.66	20.85	54.00	11.99	V
14495.400	38.16	-28.59	42.46	24.29	54.00	15.84	H
14482.800	38.15	-28.59	42.46	24.28	54.00	15.85	H
5450.900	40.83	-27.18	34.17	33.84	54.00	13.17	H
5459.900	40.82	-27.18	34.17	33.83	54.00	13.18	H

Channel 118

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)
17951.000	42.11	-25.50	46.66	20.95	54.00	11.89	V
17979.100	42.04	-25.50	46.66	20.88	54.00	11.96	H
14499.200	38.25	-28.59	42.46	24.38	54.00	15.75	H
14482.800	38.23	-28.59	42.46	24.36	54.00	15.77	H
11909.900	36.22	-31.85	39.05	29.02	54.00	17.78	H
11941.200	36.15	-31.48	39.09	28.54	54.00	17.85	V

Channel 134

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)
17981.300	42.09	-25.50	46.66	20.93	54.00	11.91	V
17995.000	42.08	-25.50	46.66	20.92	54.00	11.92	H
14494.900	38.41	-28.59	42.46	24.54	54.00	15.59	H
13315.600	38.16	-29.49	39.71	27.94	54.00	15.84	V
11049.600	36.46	-32.49	38.72	30.22	54.00	17.54	H
11942.900	36.39	-31.48	39.09	28.78	54.00	17.61	H

Channel 142

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)
17974.700	41.98	-25.50	46.66	20.82	54.00	12.02	V
17856.500	41.83	-25.50	46.66	20.67	54.00	12.17	H
14499.200	38.17	-28.59	42.46	24.30	54.00	15.83	V
13342.600	38.06	-29.49	39.71	27.84	54.00	15.94	V
11954.400	36.63	-31.48	39.09	29.02	54.00	17.37	V
11858.100	36.48	-31.85	39.05	29.28	54.00	17.52	V

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Channel 36

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)
17997.800	42.20	-25.50	46.66	21.04	54.00	11.80	V
17924.100	42.14	-25.50	46.66	20.98	54.00	11.86	V
13358.500	38.33	-29.49	39.71	28.11	54.00	15.67	V
13350.300	38.25	-29.49	39.71	28.03	54.00	15.75	V
5149.900	41.13	-27.61	33.67	35.07	54.00	12.87	H
5150.000	41.08	-27.61	33.67	35.02	54.00	12.92	H

Channel 40

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)
17995.000	42.37	-25.50	46.66	21.21	54.00	11.63	V
17920.800	42.01	-25.50	46.66	20.85	54.00	11.99	V
13346.500	38.38	-29.49	39.71	28.16	54.00	15.62	H
13325.500	38.25	-29.49	39.71	28.03	54.00	15.75	V
11919.200	36.50	-31.48	39.09	28.89	54.00	17.50	V
11048.000	36.42	-32.49	38.72	30.18	54.00	17.58	H

Channel 48

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)
17981.800	42.00	-25.50	46.66	20.84	54.00	12.00	V
17994.000	41.97	-25.50	46.66	20.81	54.00	12.03	H
13311.200	38.29	-29.49	39.71	28.07	54.00	15.71	V
14493.800	38.25	-28.59	42.46	24.38	54.00	15.75	V
11993.500	36.53	-31.48	39.09	28.92	54.00	17.47	H
11865.900	36.41	-31.85	39.05	29.21	54.00	17.59	H

Channel 52

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)
17997.200	42.24	-25.50	46.66	21.08	54.00	11.76	V
17995.600	42.21	-25.50	46.66	21.05	54.00	11.79	H
13333.200	38.31	-29.49	39.71	28.09	54.00	15.69	V
14487.100	38.17	-28.59	42.46	24.30	54.00	15.83	H
11890.000	36.35	-31.85	39.05	29.15	54.00	17.65	H
11053.000	36.33	-32.49	38.72	30.09	54.00	17.67	H

Channel 56

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)
17975.200	42.17	-25.50	46.66	21.01	54.00	11.83	V
17774.500	41.97	-25.50	46.66	20.81	54.00	12.03	H
13348.100	38.42	-29.49	39.71	28.20	54.00	15.58	H
14483.900	38.14	-28.59	42.46	24.27	54.00	15.86	H
11890.000	36.35	-31.85	39.05	29.15	54.00	17.65	V
11919.800	36.34	-31.48	39.09	28.73	54.00	17.66	H

Channel 64

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)
17996.200	42.07	-25.50	46.66	20.91	54.00	11.93	V
17984.000	41.96	-25.50	46.66	20.80	54.00	12.04	H
14498.100	38.40	-28.59	42.46	24.53	54.00	15.60	H
13343.100	38.26	-29.49	39.71	28.04	54.00	15.74	V
5350.800	41.83	-27.43	34.01	35.25	54.00	12.17	H
5350.000	41.79	-27.43	34.01	35.21	54.00	12.21	H

Channel 100

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)
17997.800	42.30	-25.50	46.66	21.14	54.00	11.70	H
17983.000	42.21	-25.50	46.66	21.05	54.00	11.79	H
14496.000	38.67	-28.59	42.46	24.80	54.00	15.33	V
13331.000	38.24	-29.49	39.71	28.02	54.00	15.76	V
5351.000	40.66	-27.43	34.01	34.08	54.00	13.34	H
5353.600	40.66	-27.43	34.01	34.08	54.00	13.34	H

Channel 116

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)
17994.500	42.14	-25.50	46.66	20.98	54.00	11.86	V
17965.300	42.07	-25.50	46.66	20.91	54.00	11.93	H
14491.500	38.48	-28.59	42.46	24.61	54.00	15.52	V
14483.900	38.17	-28.59	42.46	24.30	54.00	15.83	V
11049.600	36.62	-32.49	38.72	30.38	54.00	17.38	V
11994.500	36.43	-31.48	39.09	28.82	54.00	17.57	H

Channel 140

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)
17979.700	42.14	-25.50	46.66	20.98	54.00	11.86	V
17983.500	41.96	-25.50	46.66	20.80	54.00	12.04	H
14489.900	38.45	-28.59	42.46	24.58	54.00	15.55	V
14482.200	38.23	-28.59	42.46	24.36	54.00	15.77	V
11910.400	36.46	-31.85	39.05	29.26	54.00	17.54	V
11947.200	36.32	-31.48	39.09	28.71	54.00	17.68	H

Channel 144

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)
17992.300	42.12	-25.50	46.66	20.96	54.00	11.88	V
17964.200	42.04	-25.50	46.66	20.88	54.00	11.96	H
13334.400	38.33	-29.49	39.71	28.11	54.00	15.67	V
14481.600	38.13	-28.59	42.46	24.26	54.00	15.87	V
11044.700	36.40	-32.49	38.72	30.16	54.00	17.60	V
11999.000	36.40	-31.48	39.09	28.79	54.00	17.60	H

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Channel 38

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	42.05	-25.50	46.66	20.89	54.00	11.95	H
17700.800	41.96	-25.74	45.95	21.75	54.00	12.04	V
13336.500	38.38	-29.49	39.71	28.16	54.00	15.62	H
13352.500	38.20	-29.49	39.71	27.98	54.00	15.80	V
5149.700	42.95	-27.61	33.67	36.89	54.00	11.05	H
5149.700	42.93	-27.61	33.67	36.87	54.00	11.07	H

Channel 46

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	41.91	-25.50	46.66	20.75	54.00	12.09	V
17949.400	41.82	-25.50	46.66	20.66	54.00	12.18	V
13329.400	38.20	-29.49	39.71	27.98	54.00	15.80	H
13328.900	38.11	-29.49	39.71	27.89	54.00	15.89	H
10958.900	36.35	-32.82	38.70	30.47	54.00	17.65	V
11982.500	36.27	-31.48	39.09	28.66	54.00	17.73	H

Channel 54

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	42.15	-25.50	46.66	20.99	54.00	11.85	V
17998.900	41.97	-25.50	46.66	20.81	54.00	12.03	H
13333.200	38.38	-29.49	39.71	28.16	54.00	15.62	V
13359.600	38.24	-29.49	39.71	28.02	54.00	15.76	V
11942.300	36.50	-31.48	39.09	28.89	54.00	17.50	V
11929.100	36.40	-31.48	39.09	28.79	54.00	17.60	H

Channel 62

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	42.00	-25.50	46.66	20.84	54.00	12.00	V
17981.800	41.99	-25.50	46.66	20.83	54.00	12.01	V
14499.800	38.38	-28.59	42.46	24.51	54.00	15.62	H
14495.400	38.28	-28.59	42.46	24.41	54.00	15.72	V
5351.900	43.07	-27.43	34.01	36.49	54.00	10.93	H
5352.000	43.05	-27.43	34.01	36.47	54.00	10.95	H

Channel 102

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)
17969.800	42.12	-25.50	46.66	20.96	54.00	11.88	H
17975.800	42.02	-25.50	46.66	20.86	54.00	11.98	V
13330.000	38.08	-29.49	39.71	27.86	54.00	15.92	H
13323.400	37.95	-29.49	39.71	27.73	54.00	16.05	H
5459.200	40.98	-27.18	34.17	33.99	54.00	13.02	H
5459.300	40.98	-27.18	34.17	33.99	54.00	13.02	H

Channel 118

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)
17997.800	42.50	-25.50	46.66	21.34	54.00	11.50	V
17941.700	42.14	-25.50	46.66	20.98	54.00	11.86	V
14495.400	38.25	-28.59	42.46	24.38	54.00	15.75	V
14477.200	38.00	-28.59	42.46	24.13	54.00	16.00	V
11904.900	36.65	-31.85	39.05	29.45	54.00	17.35	H
11869.700	36.43	-31.85	39.05	29.23	54.00	17.57	V

Channel 134

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)
17957.700	42.08	-25.50	46.66	20.92	54.00	11.92	H
17932.300	42.04	-25.50	46.66	20.88	54.00	11.96	V
13352.500	38.25	-29.49	39.71	28.03	54.00	15.75	V
14486.600	38.20	-28.59	42.46	24.33	54.00	15.80	V
11046.900	36.60	-32.49	38.72	30.36	54.00	17.40	H
11939.500	36.53	-31.48	39.09	28.92	54.00	17.47	H

Channel 142

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)
17995.000	42.12	-25.50	46.66	20.96	54.00	11.88	H
17979.100	42.10	-25.50	46.66	20.94	54.00	11.90	H
13349.200	38.81	-29.49	39.71	28.59	54.00	15.19	V
14490.500	38.40	-28.59	42.46	24.53	54.00	15.60	V
11874.600	36.46	-31.85	39.05	29.26	54.00	17.54	H
11945.600	36.38	-31.48	39.09	28.77	54.00	17.62	V

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Channel 42

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)
17981.800	42.16	-25.50	46.66	21.00	54.00	11.84	V
17996.700	42.06	-25.50	46.66	20.90	54.00	11.94	V
13335.500	38.52	-29.49	39.71	28.30	54.00	15.48	H
14492.600	38.48	-28.59	42.46	24.61	54.00	15.52	H
5141.400	43.40	-27.61	33.67	37.34	54.00	10.60	H
5141.400	43.35	-27.61	33.67	37.29	54.00	10.65	H

Channel 58

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)
17981.800	42.17	-25.50	46.66	21.01	54.00	11.83	V
17786.600	42.01	-25.50	46.66	20.85	54.00	11.99	V
13347.500	38.22	-29.49	39.71	28.00	54.00	15.78	H
13317.300	38.20	-29.49	39.71	27.98	54.00	15.80	H
5352.900	43.10	-27.43	34.01	36.52	54.00	10.90	H
5353.100	42.95	-27.43	34.01	36.37	54.00	11.05	H

Channel 106

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)
17729.400	41.99	-25.74	45.95	21.78	54.00	12.01	V
17964.200	41.95	-25.50	46.66	20.79	54.00	12.05	V
14488.800	38.20	-28.59	42.46	24.33	54.00	15.80	H
13359.100	38.18	-29.49	39.71	27.96	54.00	15.82	V
5459.300	41.46	-27.18	34.17	34.47	54.00	12.54	H
5459.800	41.40	-27.18	34.17	34.41	54.00	12.60	H

Channel 122

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)
17803.100	41.89	-25.50	46.66	20.73	54.00	12.11	V
17984.600	41.83	-25.50	46.66	20.67	54.00	12.17	H
14498.100	38.34	-28.59	42.46	24.47	54.00	15.66	V
13348.100	38.22	-29.49	39.71	28.00	54.00	15.78	V
11995.100	36.47	-31.48	39.09	28.86	54.00	17.53	H
11453.900	36.26	-32.26	38.84	29.69	54.00	17.74	H

Channel 138

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)
17997.800	42.13	-25.50	46.66	20.97	54.00	11.87	V
17756.900	42.04	-25.50	46.66	20.88	54.00	11.96	H
14489.400	38.45	-28.59	42.46	24.58	54.00	15.55	V
14497.000	38.16	-28.59	42.46	24.29	54.00	15.84	H
11940.100	36.55	-31.48	39.09	28.94	54.00	17.45	V
11997.900	36.26	-31.48	39.09	28.65	54.00	17.74	V

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Channel 50

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)
17979.700	42.27	-25.50	46.66	21.11	54.00	11.73	H
17997.200	42.23	-25.50	46.66	21.07	54.00	11.77	V
13372.300	38.25	-29.49	39.71	28.03	54.00	15.75	V
13344.200	38.19	-29.49	39.71	27.97	54.00	15.81	V
5352.100	45.03	-27.43	34.01	38.45	54.00	8.97	H
5352.200	45.03	-27.43	34.01	38.45	54.00	8.97	H

Channel 114

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	42.19	-25.50	46.66	21.03	54.00	11.81	H
17992.800	42.09	-25.50	46.66	20.93	54.00	11.91	V
14491.500	38.35	-28.59	42.46	24.48	54.00	15.65	H
13348.100	38.14	-29.49	39.71	27.92	54.00	15.86	H
5432.000	43.77	-27.18	34.17	36.78	54.00	10.23	H
5431.200	43.68	-27.18	34.17	36.69	54.00	10.32	H

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Channel 36

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)
17980.800	42.46	-25.50	46.66	21.30	54.00	11.54	H
17973.600	42.18	-25.50	46.66	21.02	54.00	11.82	V
13328.300	38.44	-29.49	39.71	28.22	54.00	15.56	V
13337.100	38.29	-29.49	39.71	28.07	54.00	15.71	V
5149.800	42.65	-27.61	33.67	36.59	54.00	11.35	H
5149.800	42.42	-27.61	33.67	36.36	54.00	11.58	H

Channel 40

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)
17952.700	42.19	-25.50	46.66	21.03	54.00	11.81	V
17974.200	42.07	-25.50	46.66	20.91	54.00	11.93	H
13356.400	38.31	-29.49	39.71	28.09	54.00	15.69	V
13330.000	38.28	-29.49	39.71	28.06	54.00	15.72	H
11948.900	36.68	-31.48	39.09	29.07	54.00	17.32	H
11874.600	36.42	-31.85	39.05	29.22	54.00	17.58	H

Channel 48

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)
17994.000	42.05	-25.50	46.66	20.89	54.00	11.95	H
17980.200	41.97	-25.50	46.66	20.81	54.00	12.03	H
13342.600	38.71	-29.49	39.71	28.49	54.00	15.29	V
13326.600	38.48	-29.49	39.71	28.26	54.00	15.52	H
11937.400	36.42	-31.48	39.09	28.81	54.00	17.58	H
11508.900	36.41	-32.26	38.84	29.84	54.00	17.59	H

Channel 52

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)
17997.200	42.32	-25.50	46.66	21.16	54.00	11.68	V
17987.900	41.91	-25.50	46.66	20.75	54.00	12.09	H
14476.100	38.39	-28.59	42.46	24.52	54.00	15.61	H
14487.100	38.22	-28.59	42.46	24.35	54.00	15.78	V
11927.500	36.45	-31.48	39.09	28.84	54.00	17.55	V
11858.100	36.30	-31.85	39.05	29.10	54.00	17.70	H

Channel 56

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	42.46	-25.50	46.66	21.30	54.00	11.54	V
17952.200	42.02	-25.50	46.66	20.86	54.00	11.98	H
13330.000	38.55	-29.49	39.71	28.33	54.00	15.45	H
13349.200	38.42	-29.49	39.71	28.20	54.00	15.58	V
11922.500	36.62	-31.48	39.09	29.01	54.00	17.38	H
11913.100	36.19	-31.48	39.09	28.58	54.00	17.81	H

Channel 64

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)
17992.300	42.03	-25.50	46.66	20.87	54.00	11.97	H
17986.200	41.94	-25.50	46.66	20.78	54.00	12.06	V
13333.800	38.12	-29.49	39.71	27.90	54.00	15.88	H
14499.800	38.12	-28.59	42.46	24.25	54.00	15.88	V
5351.100	43.30	-27.43	34.01	36.72	54.00	10.70	H
5351.000	43.29	-27.43	34.01	36.71	54.00	10.71	H

Channel 100

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)
17755.200	41.87	-25.50	46.66	20.71	54.00	12.13	H
17998.300	41.87	-25.50	46.66	20.71	54.00	12.13	H
13363.000	38.29	-29.49	39.71	28.07	54.00	15.71	V
14485.500	38.16	-28.59	42.46	24.29	54.00	15.84	H
5459.600	40.70	-27.18	34.17	33.71	54.00	13.30	H
5452.700	40.69	-27.18	34.17	33.70	54.00	13.31	H

Channel 116

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)
17755.200	41.87	-25.50	46.66	20.71	54.00	12.13	H
17998.300	41.87	-25.50	46.66	20.71	54.00	12.13	H
13363.000	38.29	-29.49	39.71	28.07	54.00	15.71	V
14485.500	38.16	-28.59	42.46	24.29	54.00	15.84	H
5459.600	40.70	-27.18	34.17	33.71	54.00	13.30	H
5452.700	40.69	-27.18	34.17	33.70	54.00	13.31	H

Channel 140

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)
17968.100	42.25	-25.50	46.66	21.09	54.00	11.75	V
17962.600	42.12	-25.50	46.66	20.96	54.00	11.88	V
13334.400	38.36	-29.49	39.71	28.14	54.00	15.64	H
13330.000	38.10	-29.49	39.71	27.88	54.00	15.90	H
11528.700	36.16	-32.26	38.84	29.59	54.00	17.84	V
11845.500	36.12	-31.85	39.05	28.92	54.00	17.88	V

Channel 144

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)
17998.300	42.10	-25.50	46.66	20.94	54.00	11.90	H
17970.800	42.05	-25.50	46.66	20.89	54.00	11.95	V
13344.800	38.38	-29.49	39.71	28.16	54.00	15.62	V
13346.500	38.13	-29.49	39.71	27.91	54.00	15.87	V
11925.800	36.41	-31.48	39.09	28.80	54.00	17.59	V
11043.600	36.36	-32.49	38.72	30.12	54.00	17.64	H

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Channel 38

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	42.18	-25.50	46.66	21.02	54.00	11.82	H
17991.800	42.07	-25.50	46.66	20.91	54.00	11.93	H
13349.200	38.31	-29.49	39.71	28.09	54.00	15.69	V
13350.300	38.12	-29.49	39.71	27.90	54.00	15.88	V
5150.000	43.47	-27.61	33.67	37.41	54.00	10.53	H
5149.900	43.39	-27.61	33.67	37.33	54.00	10.61	H

Channel 46

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	41.98	-25.50	46.66	20.82	54.00	12.02	V
17939.000	41.84	-25.50	46.66	20.68	54.00	12.16	H
14482.800	38.12	-28.59	42.46	24.25	54.00	15.88	V
13327.800	38.04	-29.49	39.71	27.82	54.00	15.96	V
10962.800	36.24	-32.82	38.70	30.36	54.00	17.76	V
11048.500	36.23	-32.49	38.72	29.99	54.00	17.77	H

Channel 54

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)
17997.200	42.12	-25.50	46.66	20.96	54.00	11.88	V
17799.800	42.01	-25.50	46.66	20.85	54.00	11.99	H
13354.700	38.27	-29.49	39.71	28.05	54.00	15.73	H
13338.200	38.17	-29.49	39.71	27.95	54.00	15.83	H
11936.200	36.42	-31.48	39.09	28.81	54.00	17.58	V
11845.500	36.30	-31.85	39.05	29.10	54.00	17.70	H

Channel 62

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)
17997.200	41.97	-25.50	46.66	20.81	54.00	12.03	H
17993.400	41.93	-25.50	46.66	20.77	54.00	12.07	V
14486.600	38.51	-28.59	42.46	24.64	54.00	15.49	V
13327.800	38.49	-29.49	39.71	28.27	54.00	15.51	V
5351.300	43.57	-27.43	34.01	36.99	54.00	10.43	H
5352.000	43.53	-27.43	34.01	36.95	54.00	10.47	H

Channel 102

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)
17998.900	42.10	-25.50	46.66	20.94	54.00	11.90	H
17940.600	42.03	-25.50	46.66	20.87	54.00	11.97	H
14475.600	38.22	-28.59	42.46	24.35	54.00	15.78	V
13356.400	38.19	-29.49	39.71	27.97	54.00	15.81	V
5459.800	41.13	-27.18	34.17	34.14	54.00	12.87	H
5459.600	41.06	-27.18	34.17	34.07	54.00	12.94	H

Channel 118

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)
17968.100	42.24	-25.50	46.66	21.08	54.00	11.76	V
17961.000	42.11	-25.50	46.66	20.95	54.00	11.89	V
14496.000	38.30	-28.59	42.46	24.43	54.00	15.70	H
13342.000	38.25	-29.49	39.71	28.03	54.00	15.75	V
11863.600	36.44	-31.85	39.05	29.24	54.00	17.56	V
11544.600	36.31	-32.26	38.84	29.74	54.00	17.69	H

Channel 134

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)
17995.000	42.01	-25.50	46.66	20.85	54.00	11.99	V
17978.500	41.99	-25.50	46.66	20.83	54.00	12.01	V
13349.800	38.20	-29.49	39.71	27.98	54.00	15.80	H
13331.000	38.02	-29.49	39.71	27.80	54.00	15.98	H
11941.200	36.52	-31.48	39.09	28.91	54.00	17.48	V
11900.000	36.28	-31.85	39.05	29.08	54.00	17.72	H

Channel 142

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)
17992.800	42.41	-25.50	46.66	21.25	54.00	11.59	H
17998.300	42.18	-25.50	46.66	21.02	54.00	11.82	V
13339.900	38.40	-29.49	39.71	28.18	54.00	15.60	H
14498.700	38.27	-28.59	42.46	24.40	54.00	15.73	H
11990.100	36.59	-31.48	39.09	28.98	54.00	17.41	V
11902.100	36.41	-31.85	39.05	29.21	54.00	17.59	V

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Channel 42

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)
17950.500	42.03	-25.50	46.66	20.87	54.00	11.97	H
17985.700	41.92	-25.50	46.66	20.76	54.00	12.08	V
13379.500	38.06	-29.49	39.71	27.84	54.00	15.94	V
13311.800	38.03	-29.49	39.71	27.81	54.00	15.97	V
5141.000	44.52	-27.61	33.67	38.46	54.00	9.48	H
5141.200	44.44	-27.61	33.67	38.38	54.00	9.56	H

Channel 58

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)
17988.500	42.52	-25.50	46.66	21.36	54.00	11.48	H
17996.200	42.15	-25.50	46.66	20.99	54.00	11.85	V
14498.700	38.25	-28.59	42.46	24.38	54.00	15.75	H
14496.500	38.17	-28.59	42.46	24.30	54.00	15.83	H
5352.900	43.85	-27.43	34.01	37.27	54.00	10.15	H
5352.000	43.82	-27.43	34.01	37.24	54.00	10.18	H

Channel 106

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)
17936.800	41.97	-25.50	46.66	20.81	54.00	12.03	H
17990.700	41.94	-25.50	46.66	20.78	54.00	12.06	H
14492.100	38.18	-28.59	42.46	24.31	54.00	15.82	H
13312.900	38.10	-29.49	39.71	27.88	54.00	15.90	H
5459.900	41.83	-27.18	34.17	34.84	54.00	12.17	H
5459.500	41.78	-27.18	34.17	34.79	54.00	12.22	H

Channel 122

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)
17926.800	42.00	-25.50	46.66	20.84	54.00	12.00	V
17991.200	41.95	-25.50	46.66	20.79	54.00	12.05	V
14496.000	38.35	-28.59	42.46	24.48	54.00	15.65	H
13359.600	38.17	-29.49	39.71	27.95	54.00	15.83	V
11939.500	36.51	-31.48	39.09	28.90	54.00	17.49	V
11928.000	36.25	-31.48	39.09	28.64	54.00	17.75	H

Channel 138

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)
17946.100	42.11	-25.50	46.66	20.95	54.00	11.89	H
17973.600	42.07	-25.50	46.66	20.91	54.00	11.93	V
13334.400	38.12	-29.49	39.71	27.90	54.00	15.88	H
14488.800	37.97	-28.59	42.46	24.10	54.00	16.03	H
11887.300	36.33	-31.85	39.05	29.13	54.00	17.67	H
11999.000	36.33	-31.48	39.09	28.72	54.00	17.67	V

802.11ax-HT160

Channel 50

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	42.07	-25.50	46.66	20.91	54.00	11.93	H
17975.800	42.03	-25.50	46.66	20.87	54.00	11.97	H
13338.800	38.37	-29.49	39.71	28.15	54.00	15.63	V
13334.400	38.22	-29.49	39.71	28.00	54.00	15.78	V
5352.500	45.37	-27.43	34.01	38.79	54.00	8.63	H
5352.100	45.36	-27.43	34.01	38.78	54.00	8.64	H

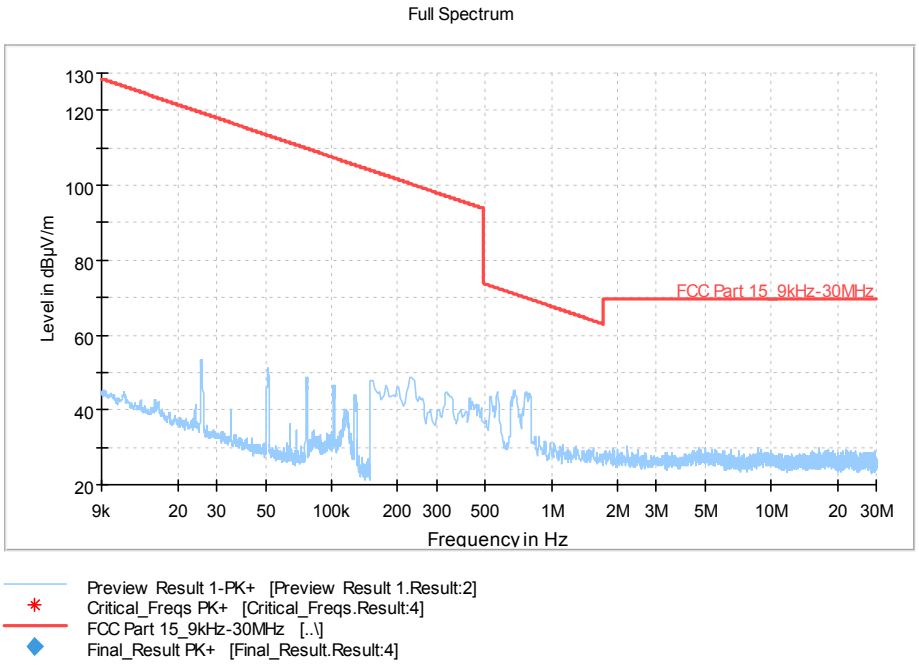
Channel 114

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)
17946.700	42.08	-25.50	46.66	20.92	54.00	11.92	H
17860.300	42.00	-25.50	46.66	20.84	54.00	12.00	V
14494.300	38.37	-28.59	42.46	24.50	54.00	15.63	V
14487.700	38.25	-28.59	42.46	24.38	54.00	15.75	V
5451.000	43.66	-27.18	34.17	36.67	54.00	10.34	H
5431.400	43.58	-27.18	34.17	36.59	54.00	10.42	H

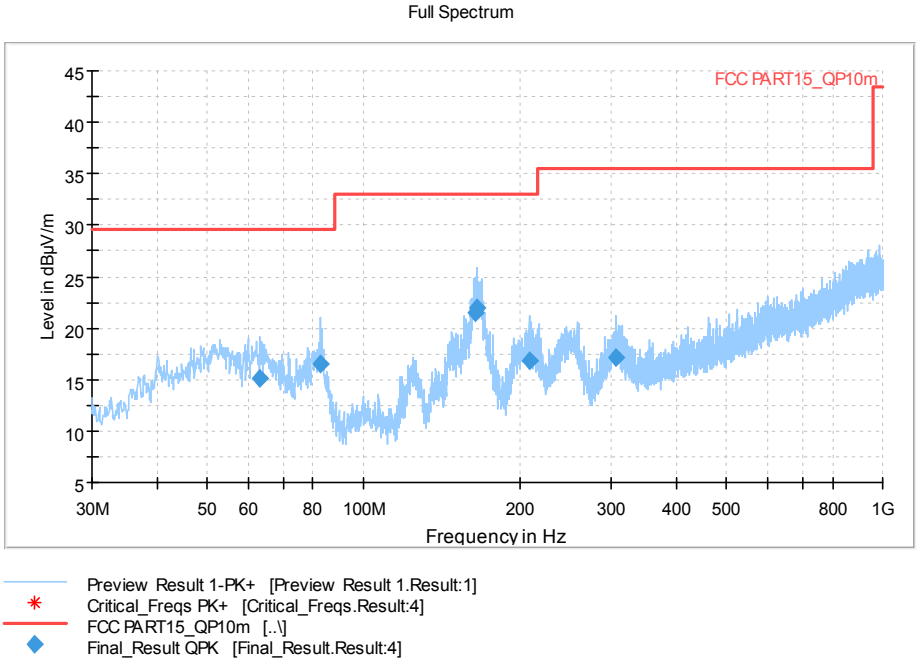
Conclusion: PASS

C.1.2 Radiated Spurious Emission- Below 1GHz

WOSRT CASE BELOW 30MHz（Set.1-1, 802.11a CH36,MIMO）



WOSRT CASE for 30MHz-1GHz（Set.1-1, 802.11a CH36, MIMO）



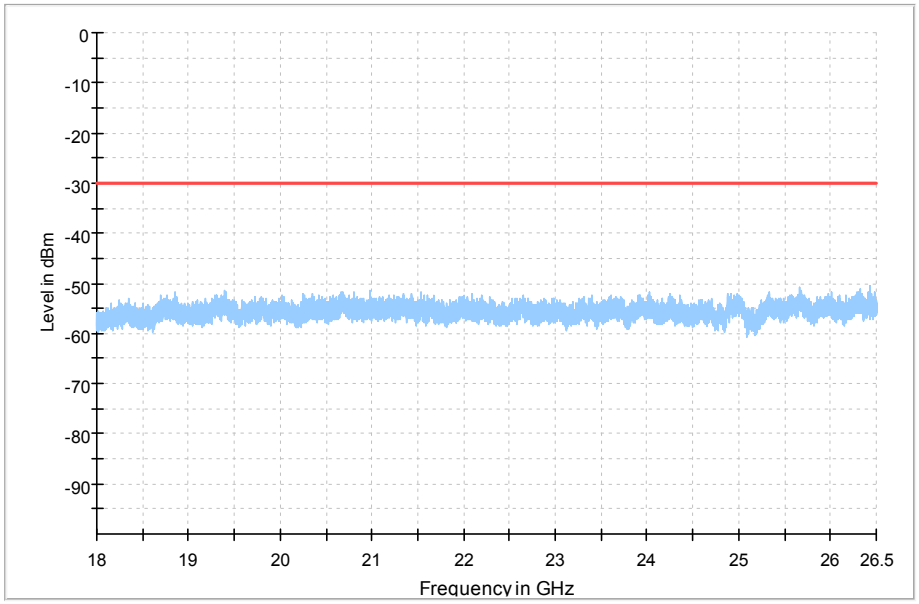
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
63.271000	15.05	29.54	14.49	2000.0	120.000	98.0	V	24.0
82.574000	16.48	29.54	13.06	2000.0	120.000	110.0	V	96.0
163.763000	21.47	33.06	11.59	2000.0	120.000	109.0	V	39.0
165.897000	22.04	33.06	11.02	2000.0	120.000	109.0	V	162.0
208.383000	16.82	33.06	16.24	2000.0	120.000	108.0	V	199.0
307.323000	17.15	35.56	18.41	2000.0	120.000	98.0	V	199.0

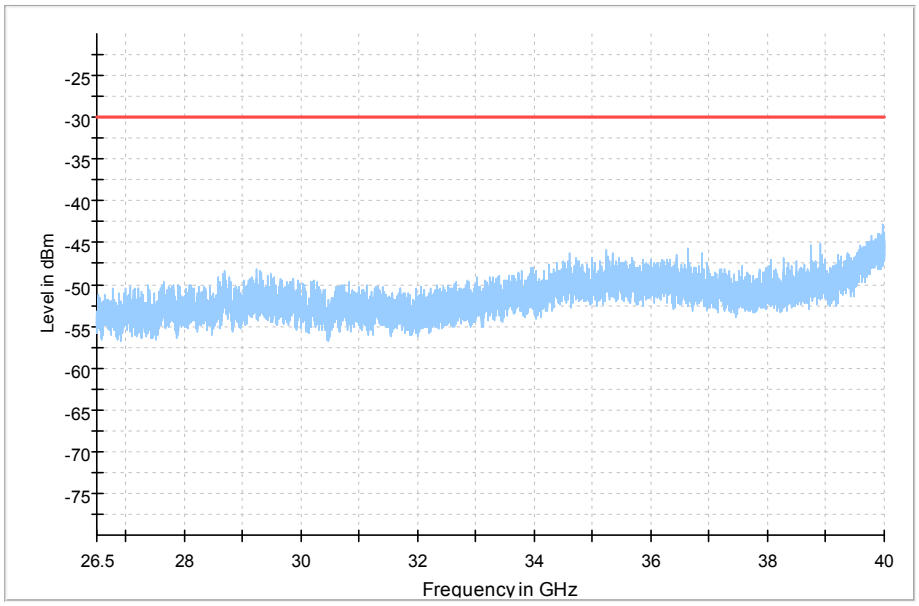
C.1.3 Radiated Spurious Emission-ABOVE 18GHz

WOSRT CASE for ABOVE 18GHz（Set.1-1, 802.11a CH36,MIMO）

Full Spectrum



Full Spectrum



C.1.4 Band Edges Compliance– Radiated

Measurement Result:

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	Chain A
		Chain B
		MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 with were performed separately in Chain A, Chain B, and MIMO (Chain A+B), and only the worst cases are shown in this report. For EUT2 were performed separately in MIMO (Chain A+B), and only the worst cases are shown in this report.

Results for Set.1-1, MIMO

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11n HT40	5190 MHz	Fig.9	P
	5310 MHz	Fig.10	P
	5510 MHz	Fig.11	P
	5670 MHz	Fig.12	P
802.11ac HT20	5180 MHz	Fig.13	P
	5320 MHz	Fig.14	P
	5500 MHz	Fig.15	P
	5700 MHz	Fig.16	P
802.11ac HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ac HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
	5610MHz	Fig.24	P
802.11ac HT160	5250MHz	Fig.25	P
	5250MHz	Fig.26	P
	5570MHz	Fig.27	P
	5570MHz	Fig.28	P

802.11ax HT20	5180 MHz	Fig.29	P
	5320 MHz	Fig.30	P
	5500 MHz	Fig.31	P
	5700 MHz	Fig.32	P
802.11ax HT40	5190 MHz	Fig.33	P
	5310 MHz	Fig.34	P
	5510 MHz	Fig.35	P
	5670 MHz	Fig.36	P
802.11ax HT80	5210MHz	Fig.37	P
	5290MHz	Fig.38	P
	5530MHz	Fig.39	P
	5610MHz	Fig.40	P
802.11ax HT160	5250MHz	Fig.41	P
	5250MHz	Fig.42	P
	5570MHz	Fig.43	P
	5570MHz	Fig.44	P

Conclusion: PASS

Test graphs as below:

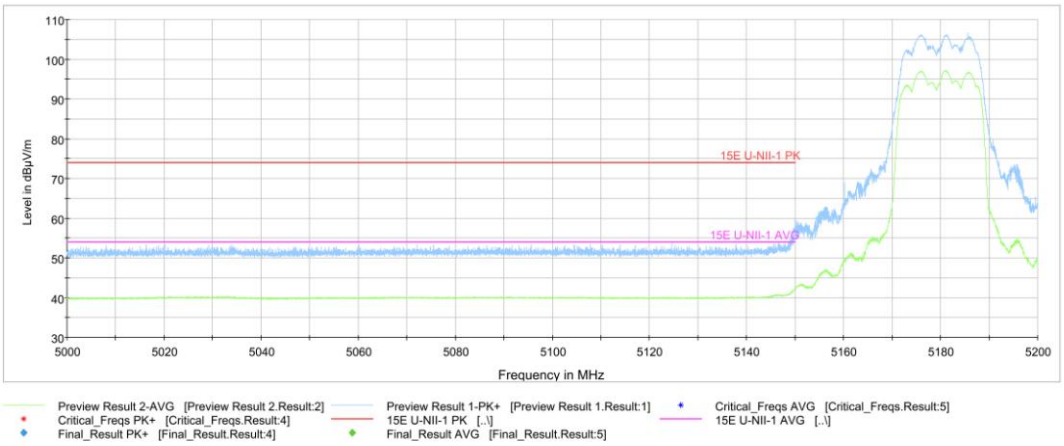


Fig.1 Band Edges (802.11a Ch36, 5180MHz)

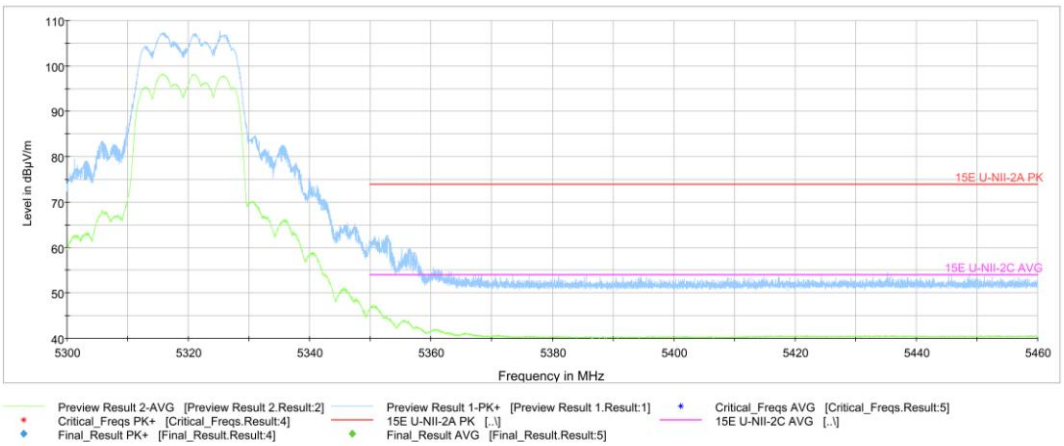


Fig.2 Band Edges (802.11a Ch64, 5320MHz)

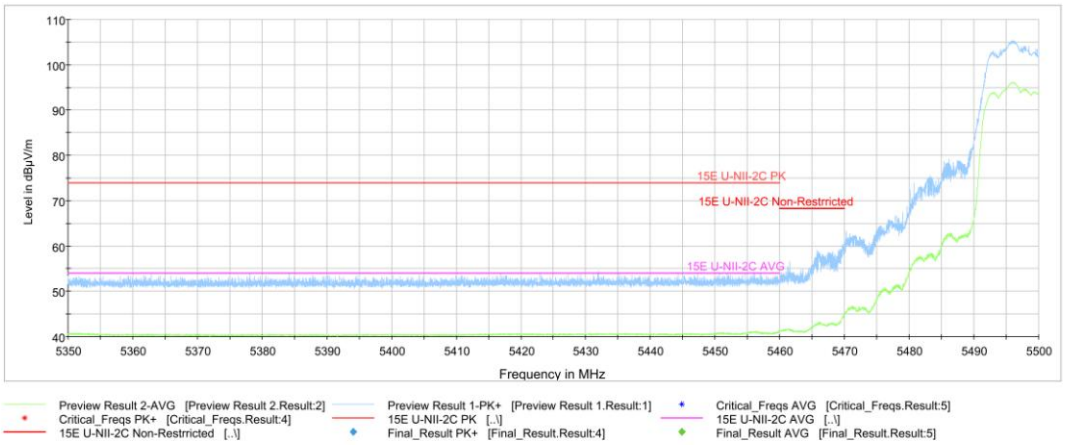


Fig.3 Band Edges (802.11a Ch100, 5500MHz)

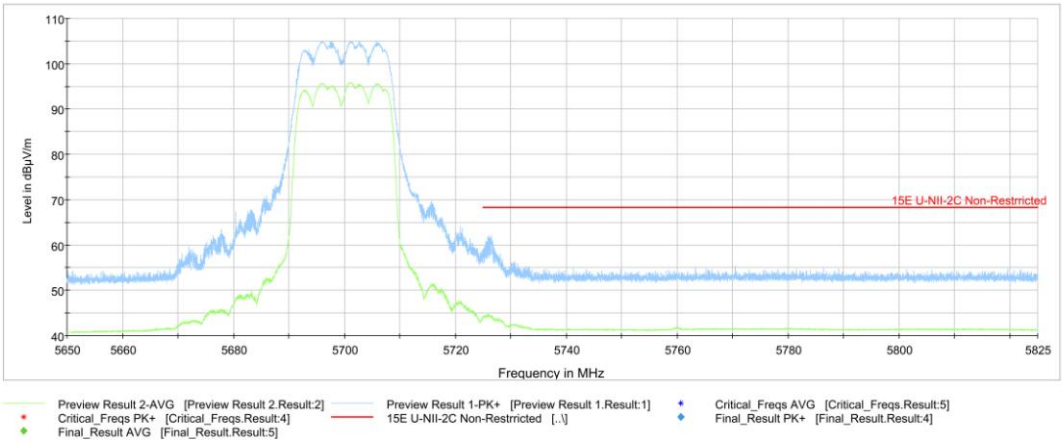


Fig.4 Band Edges (802.11a Ch140, 5700MHz)

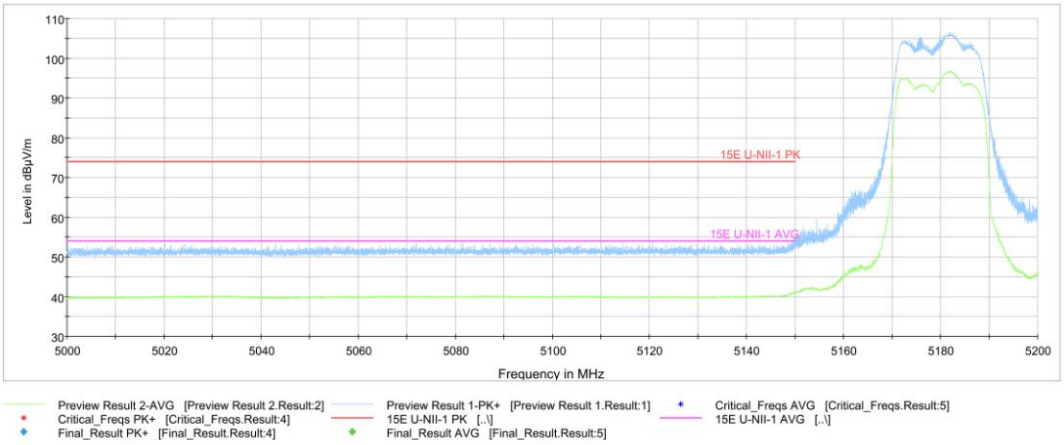


Fig.5 Band Edges (802.11n-HT20 Ch36, 5180MHz)

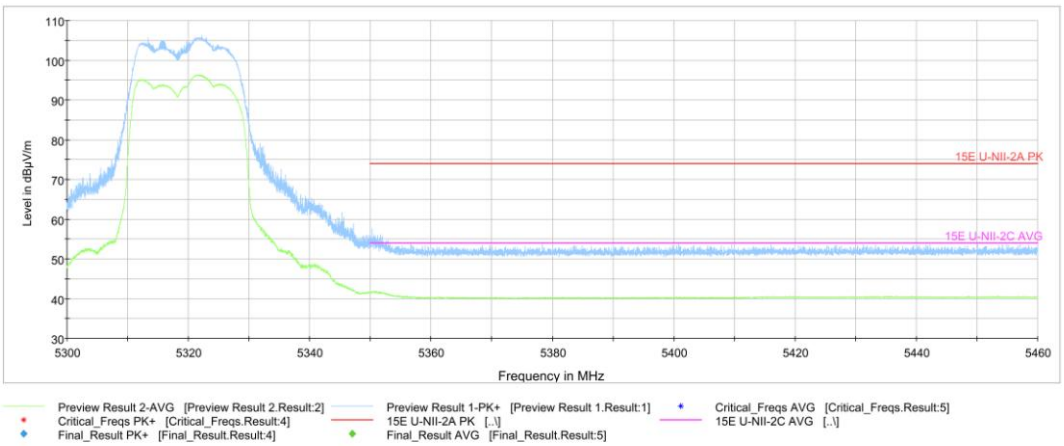


Fig.6 Band Edges (802.11n-HT20 Ch64, 5320MHz)

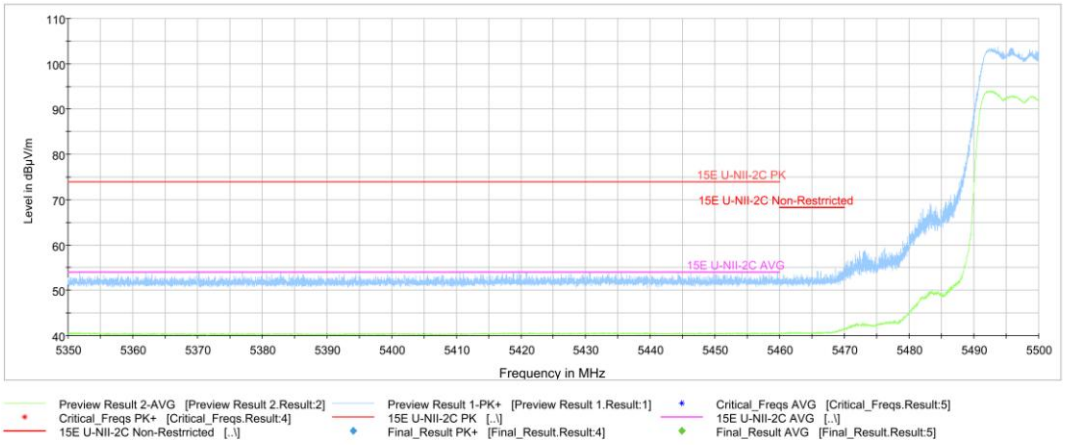


Fig.7 Band Edges (802.11n-HT20 Ch100, 5500MHz)

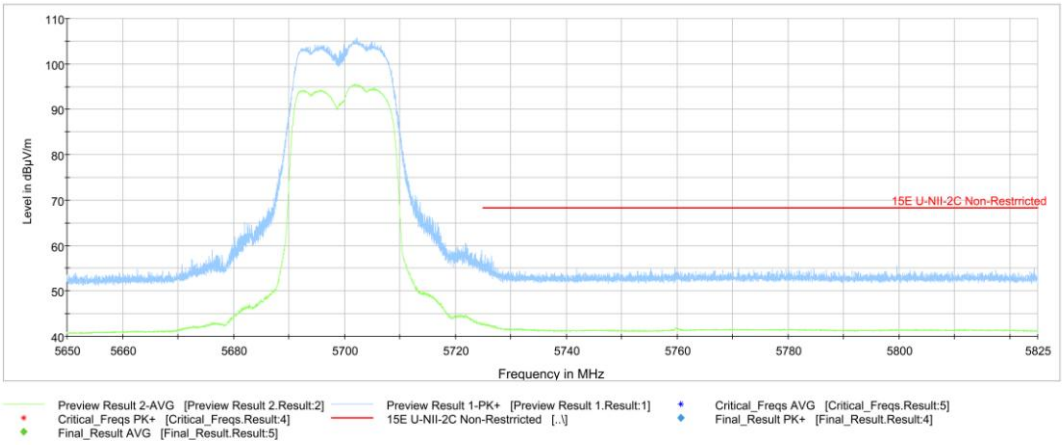


Fig.8 Band Edges (802.11n-HT20 Ch140, 5700MHz)

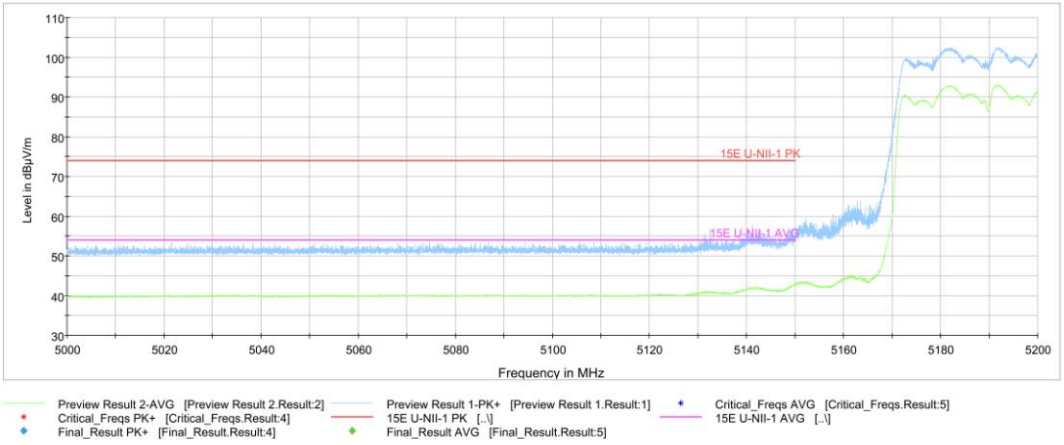


Fig.9 Band Edges (802.11n-HT40 Ch38, 5190MHz)

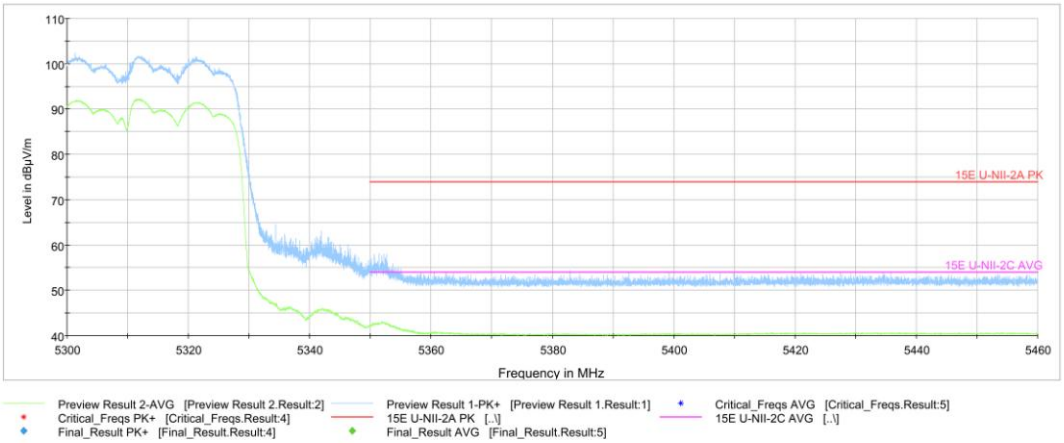


Fig.10 Band Edges (802.11n-HT40 Ch62, 5310MHz)

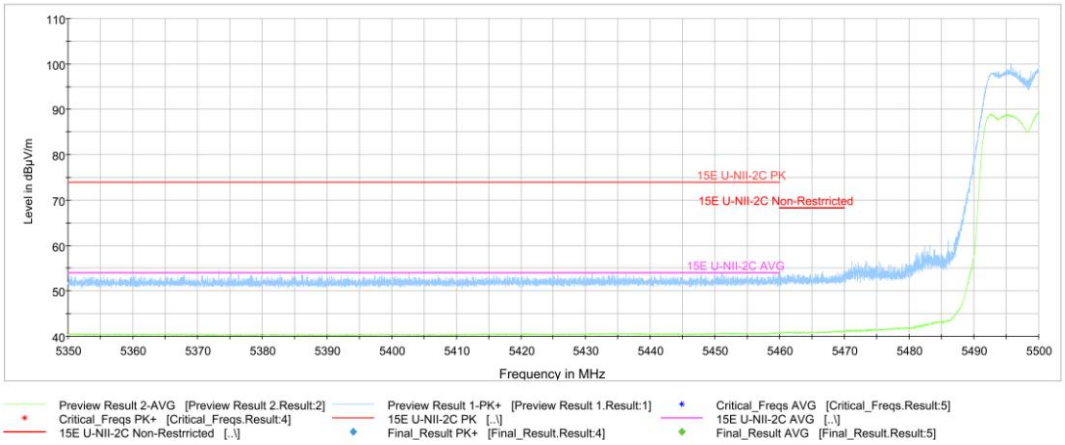


Fig.11 Band Edges (802.11n-HT40 Ch102, 5510MHz)

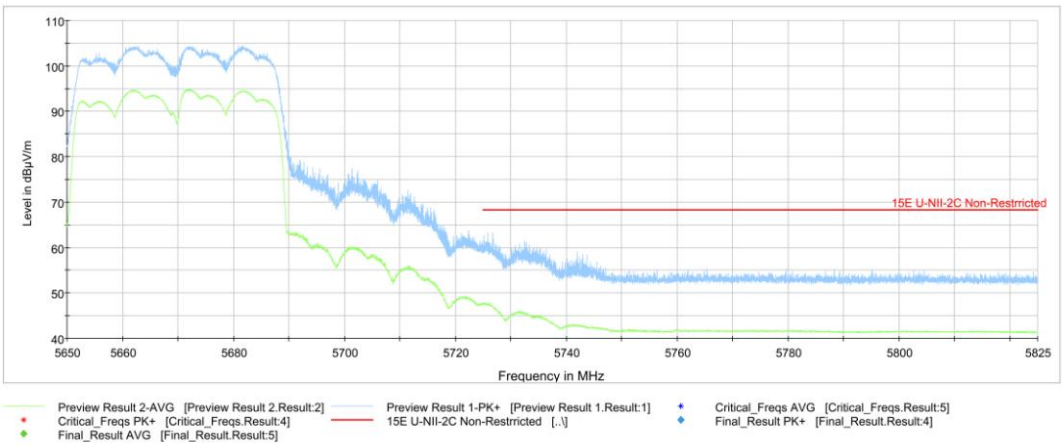


Fig.12 Band Edges (802.11n-HT40 Ch134, 5670MHz)

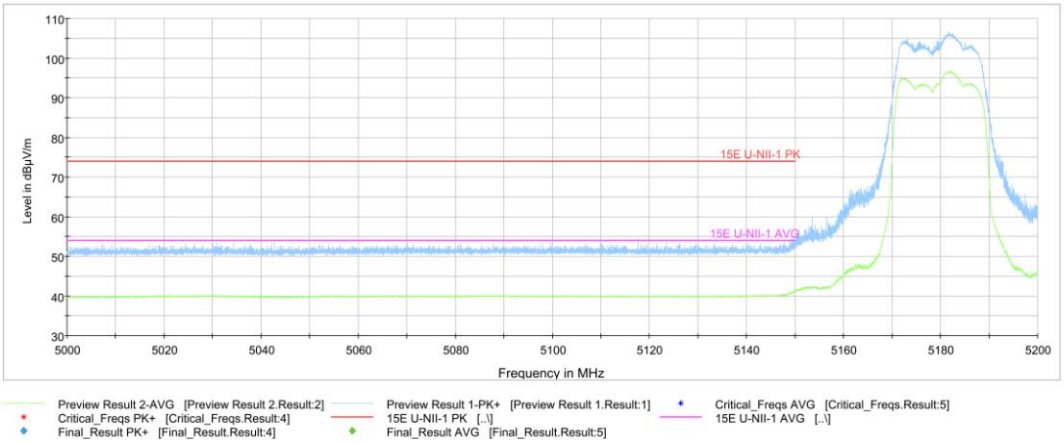


Fig.13 Band Edges (802.11ac-HT20 Ch36, 5180MHz)

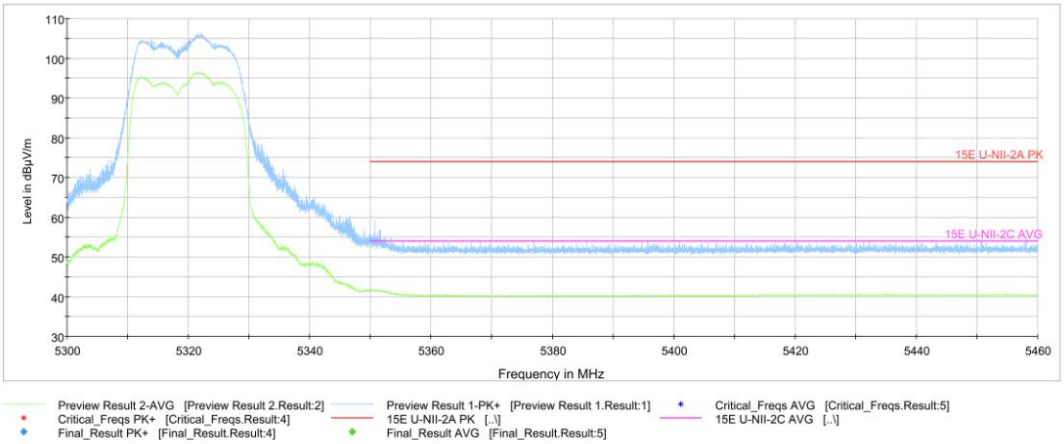


Fig.14 Band Edges (802.11ac-HT20 Ch64, 5320MHz)

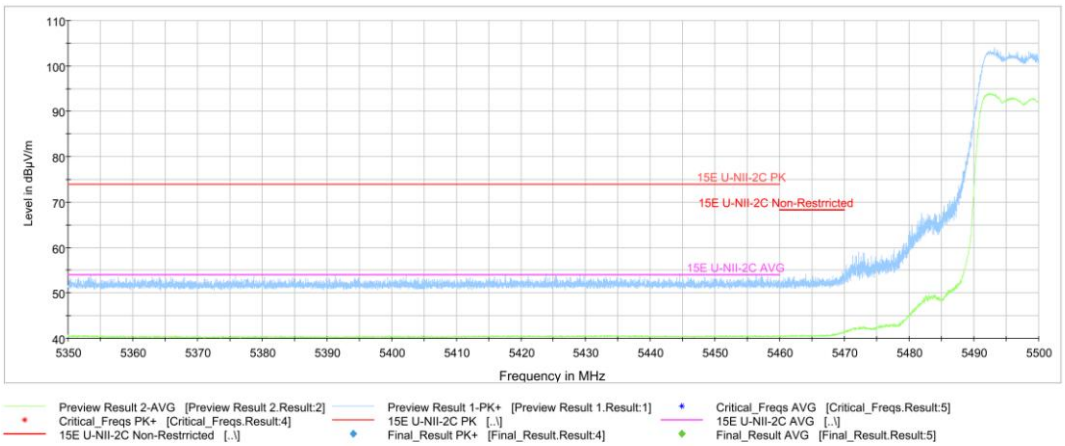


Fig.15 Band Edges (802.11ac-HT20 Ch100, 5500MHz)

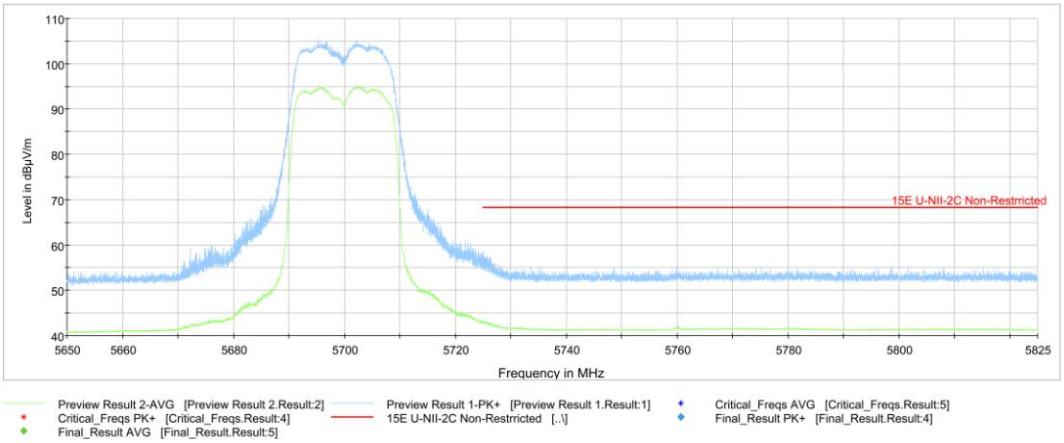


Fig.16 Band Edges (802.11ac-HT20 Ch140, 5700MHz)

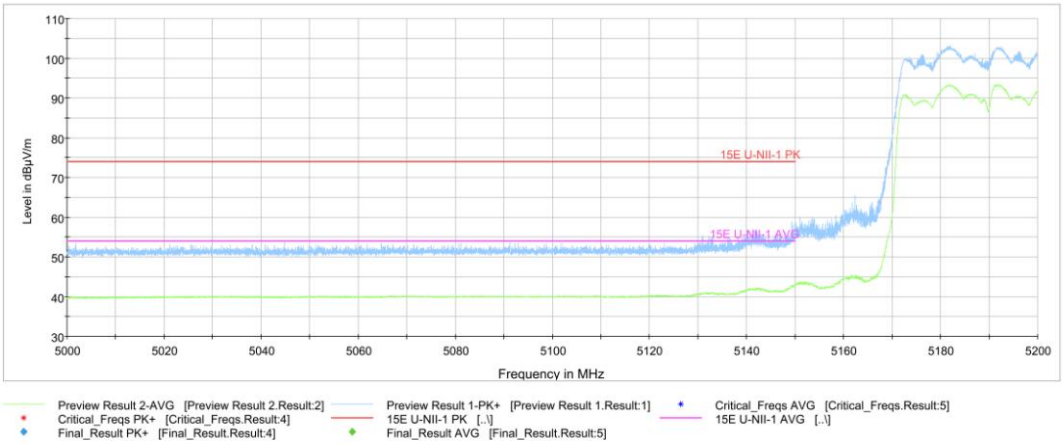


Fig.17 Band Edges (802.11ac-HT40 Ch38, 5190MHz)

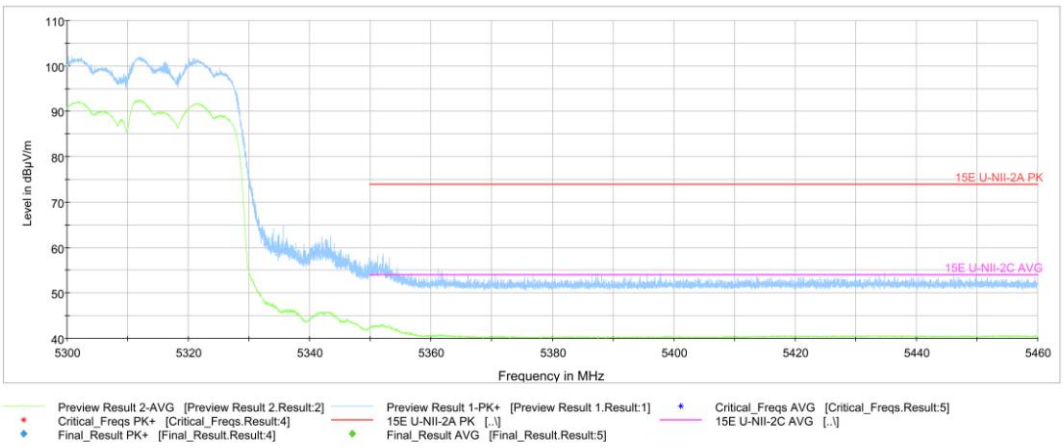


Fig.18 Band Edges (802.11ac-HT40 Ch62, 5310MHz)

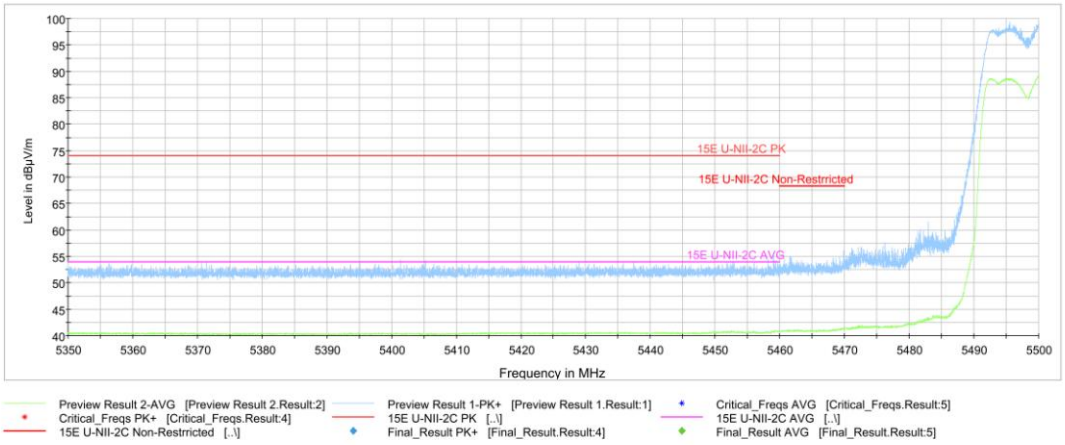


Fig.19 Band Edges (802.11ac-HT40 Ch102, 5510MHz)

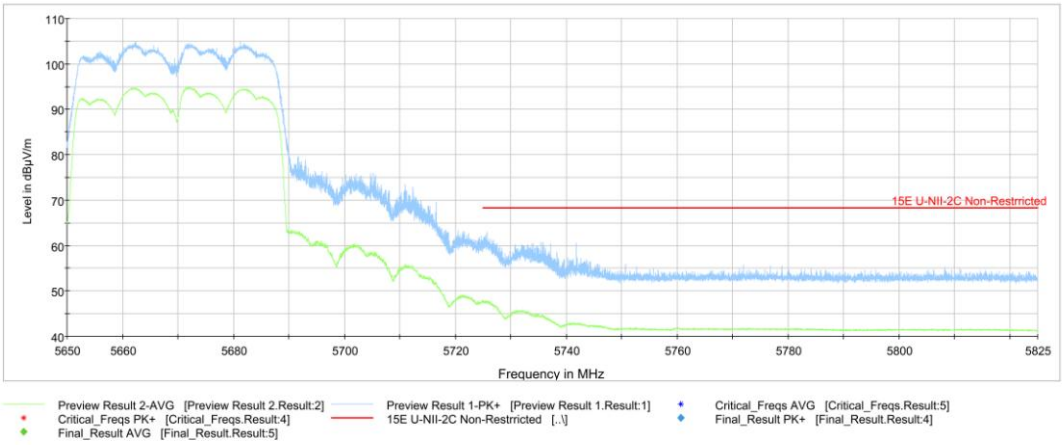


Fig.20 Band Edges (802.11ac-HT40 Ch134, 5670MHz)

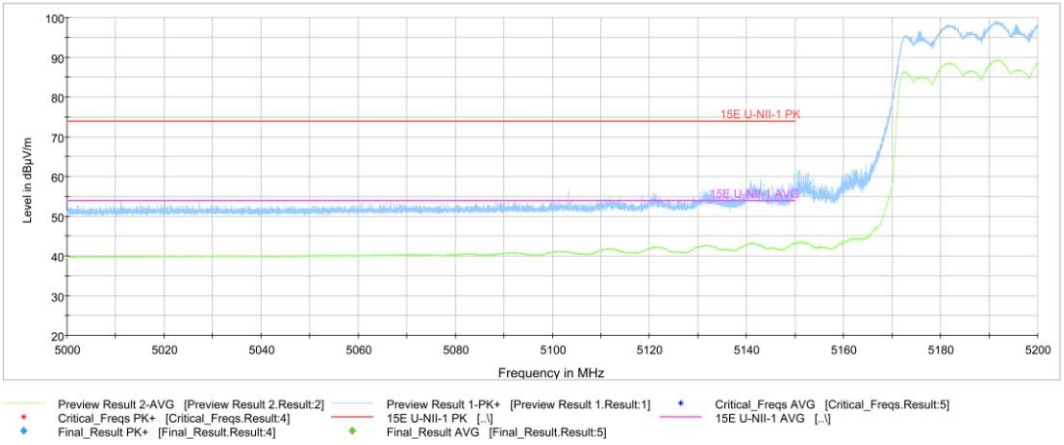


Fig.21 Band Edges (802.11ac-HT80 Ch42, 5210MHz)

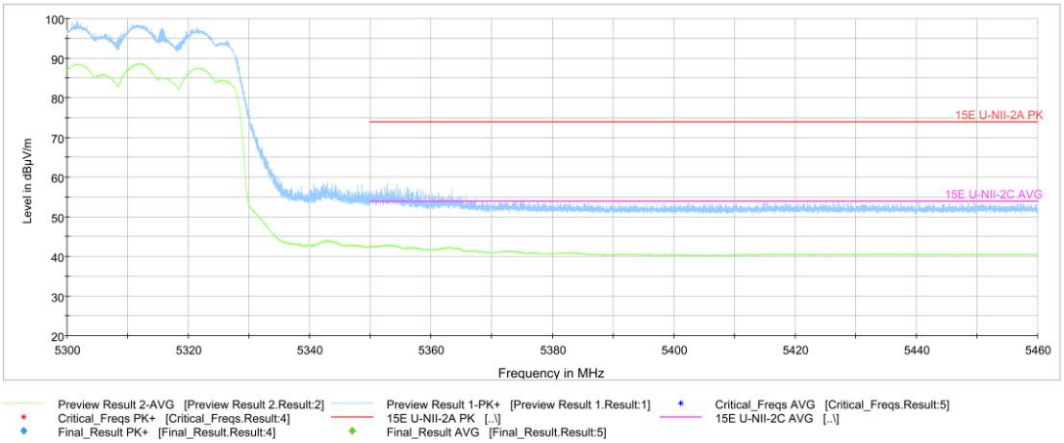


Fig.22 Band Edges (802.11ac-HT80 Ch58, 5290MHz)

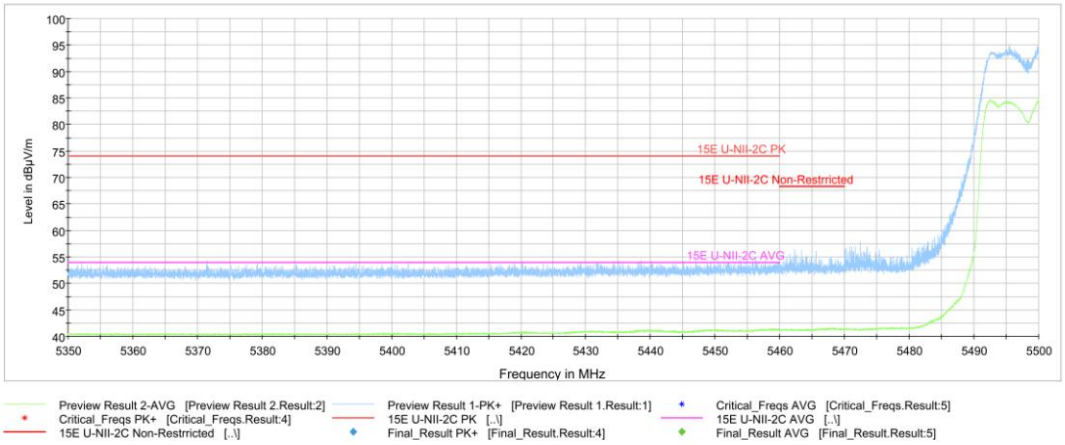


Fig.23 Band Edges (802.11ac-HT80 Ch106, 5530MHz)

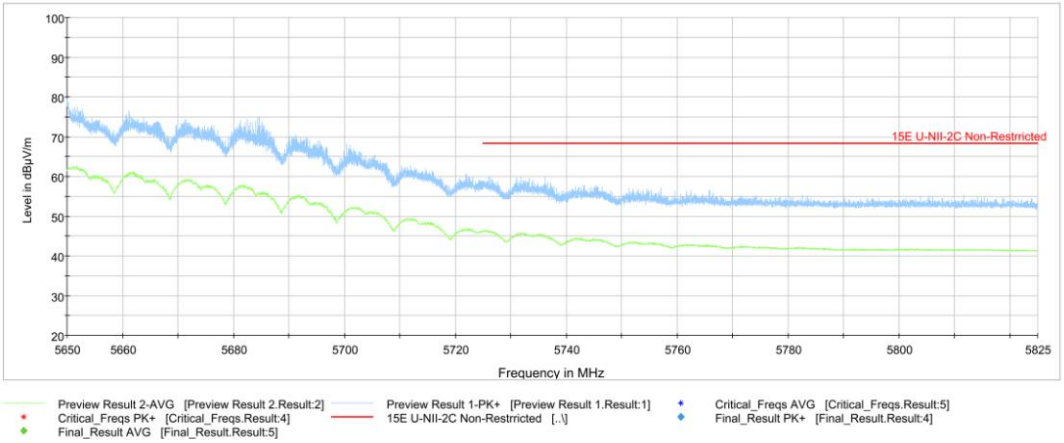


Fig.24 Band Edges (802.11ac-HT80 Ch122, 5610MHz)

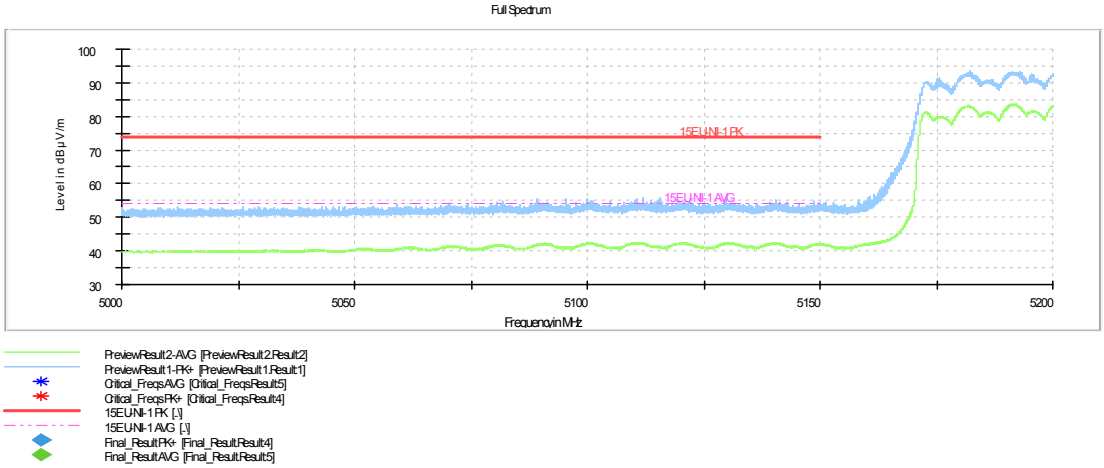


Fig.25 Band Edges (802.11ac-HT160 Ch50-L, 5250MHz)

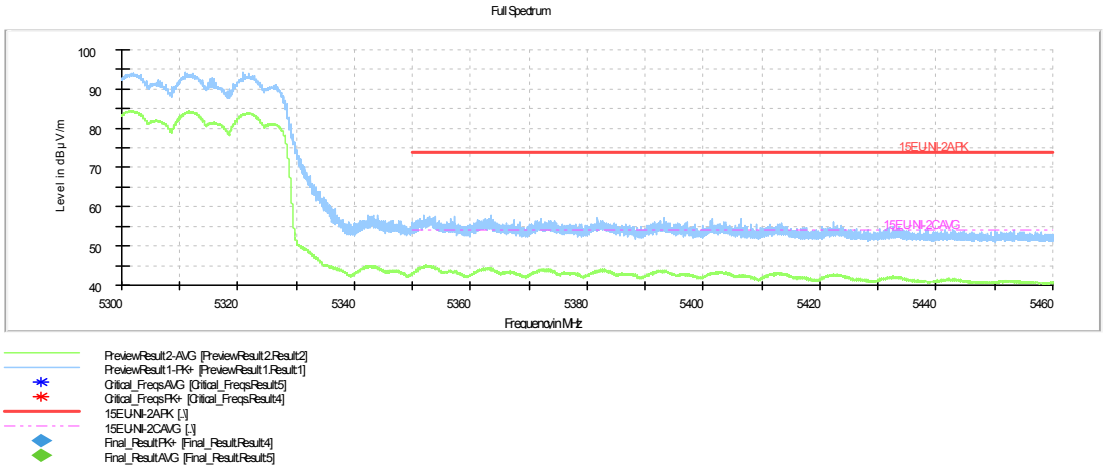


Fig.26 Band Edges (802.11ac-HT160 Ch50-R, 5250MHz)

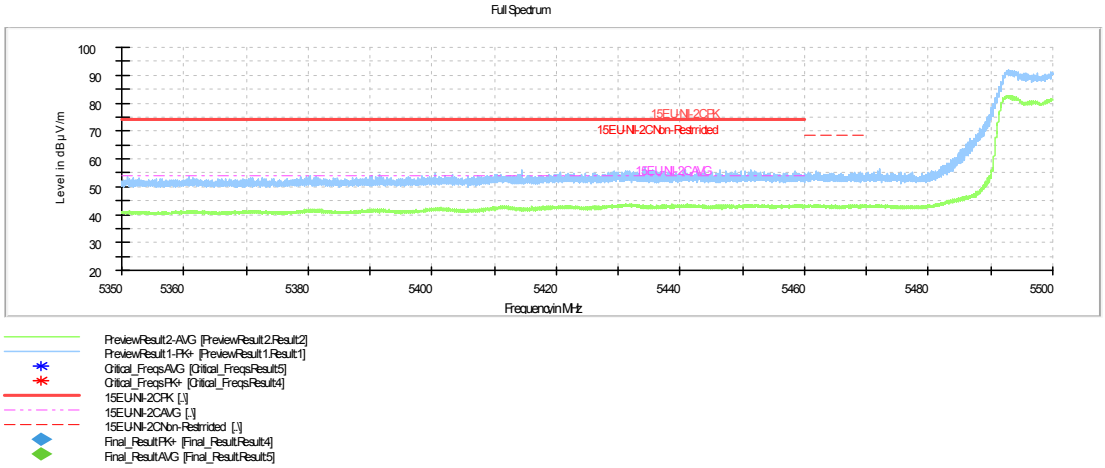


Fig.27 Band Edges (802.11ac-HT160 Ch114-L, 5570MHz)

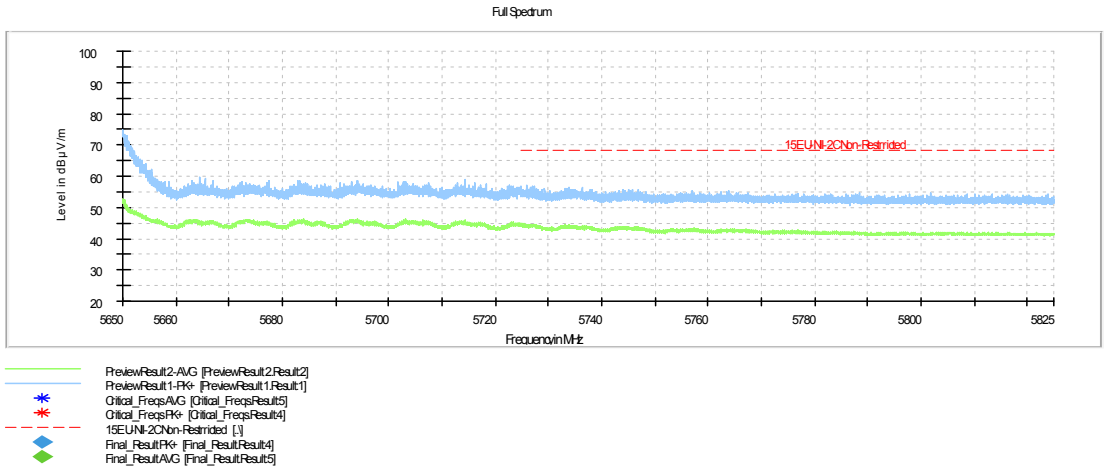


Fig.28 Band Edges (802.11ac-HT160 Ch114-R, 5570MHz)

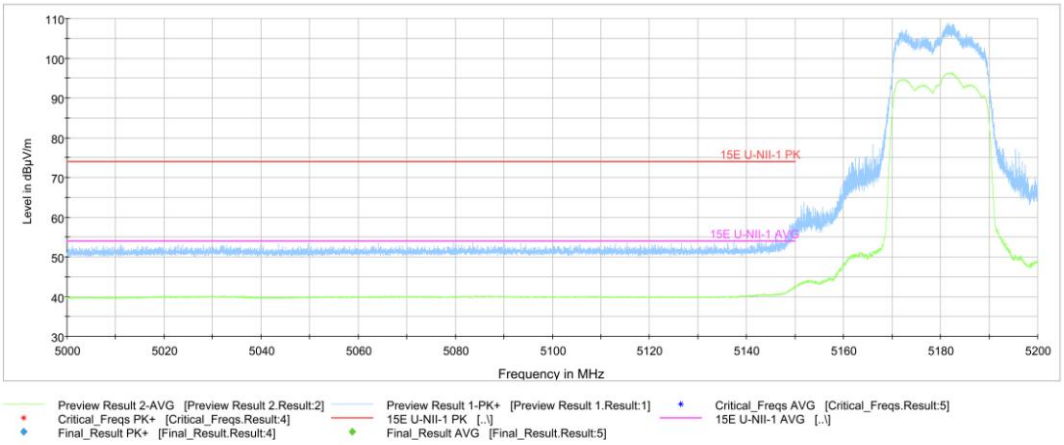


Fig.29 Band Edges (802.11ax-HT20 Ch36, 5180MHz)

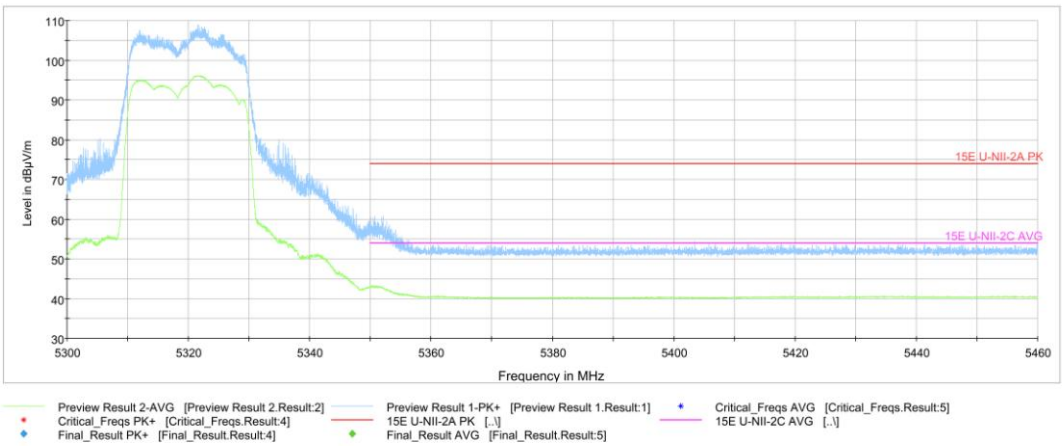


Fig.30 Band Edges (802.11ax-HT20 Ch64, 5320MHz)

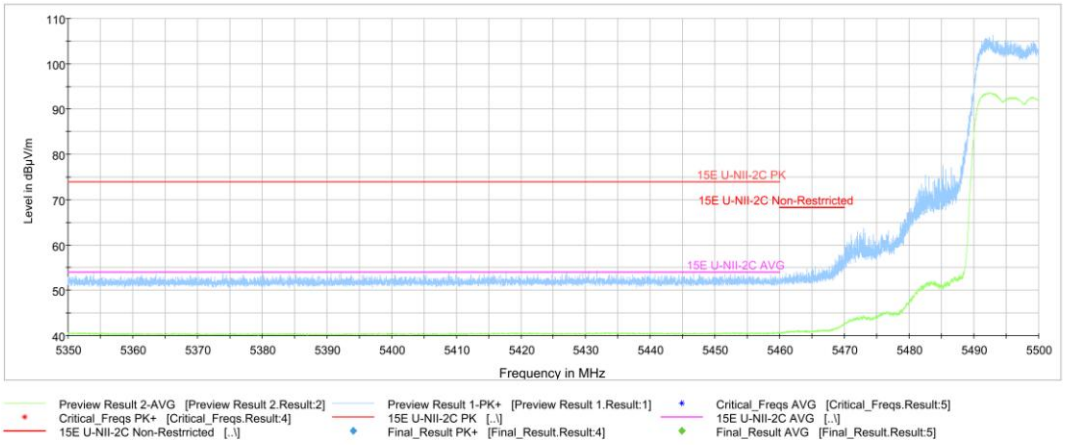


Fig.31 Band Edges (802.11ax-HT20 Ch100, 5500MHz)

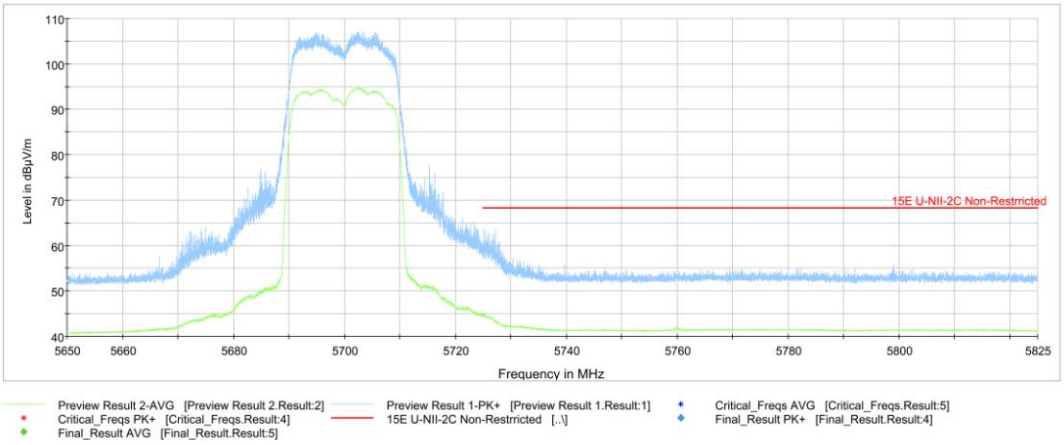


Fig.32 Band Edges (802.11ax-HT20 Ch140, 5700MHz)

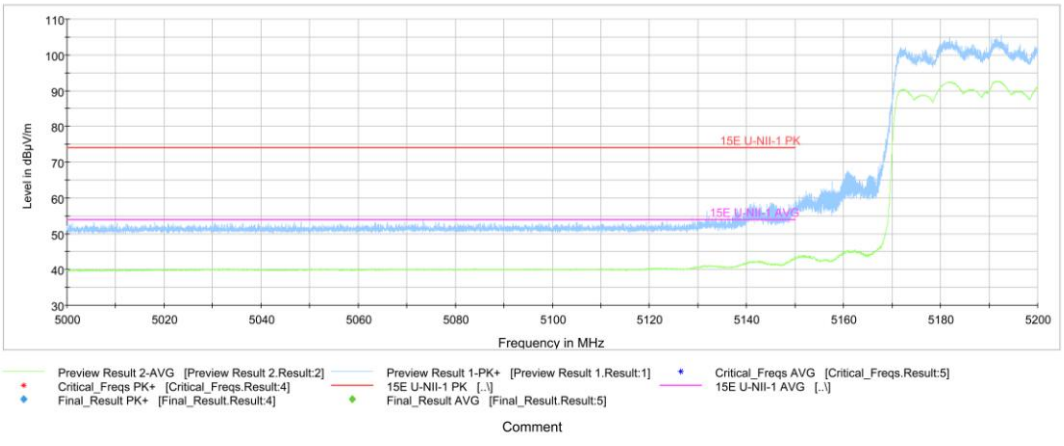


Fig.33 Band Edges (802.11ax-HT40 Ch38, 5190MHz)

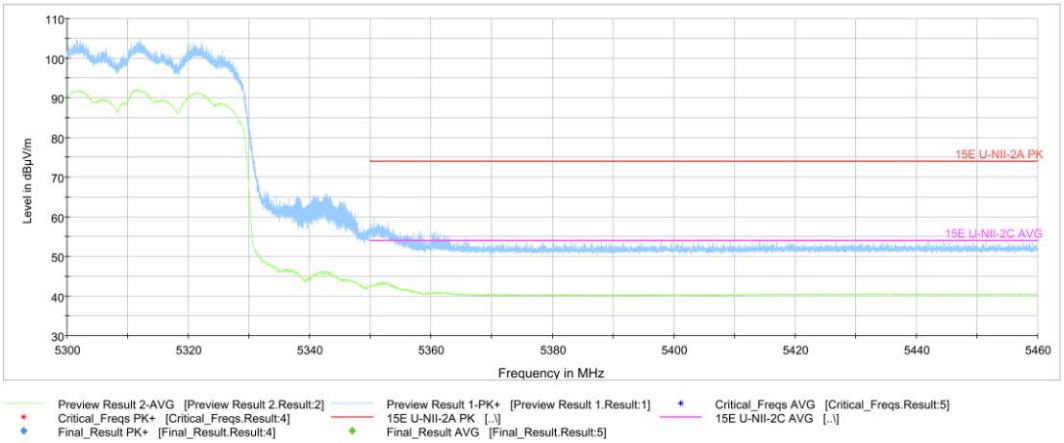


Fig.34 Band Edges (802.11ax-HT40 Ch62, 5310MHz)

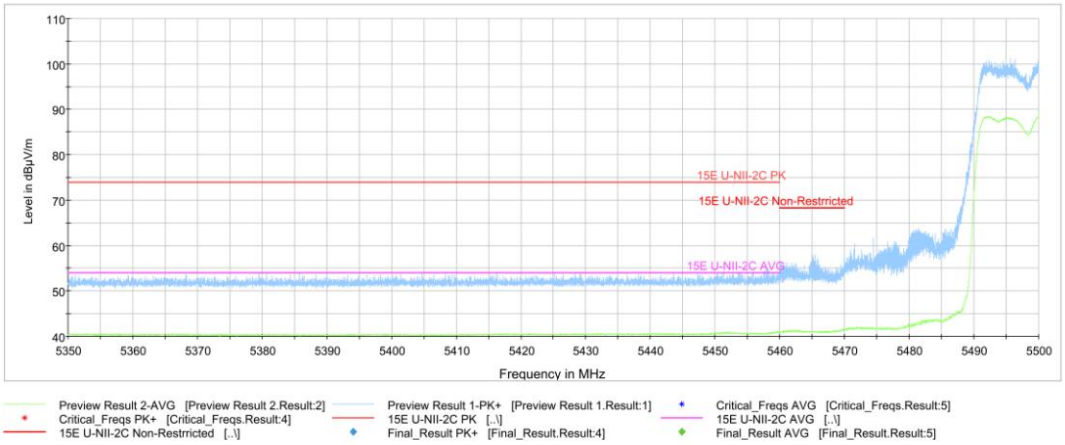


Fig.35 Band Edges (802.11ax-HT40 Ch102, 5510MHz)

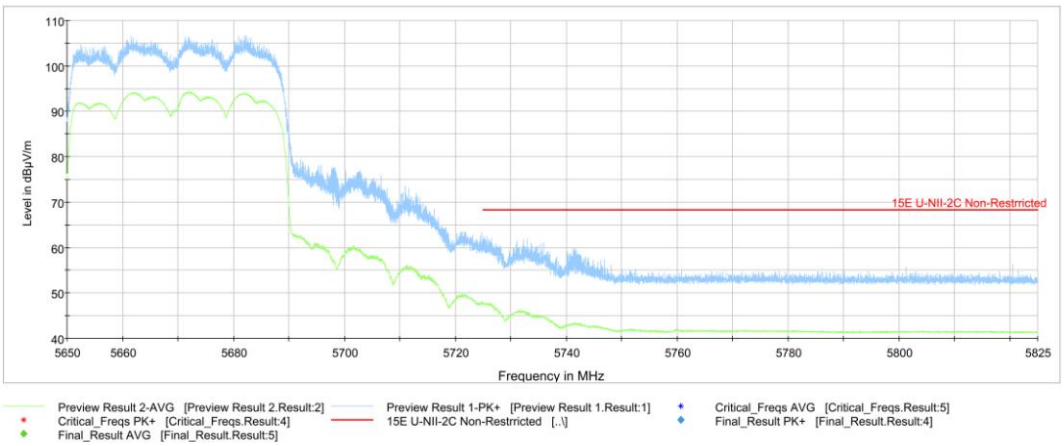


Fig.36 Band Edges (802.11ax-HT40 Ch134, 5670MHz)

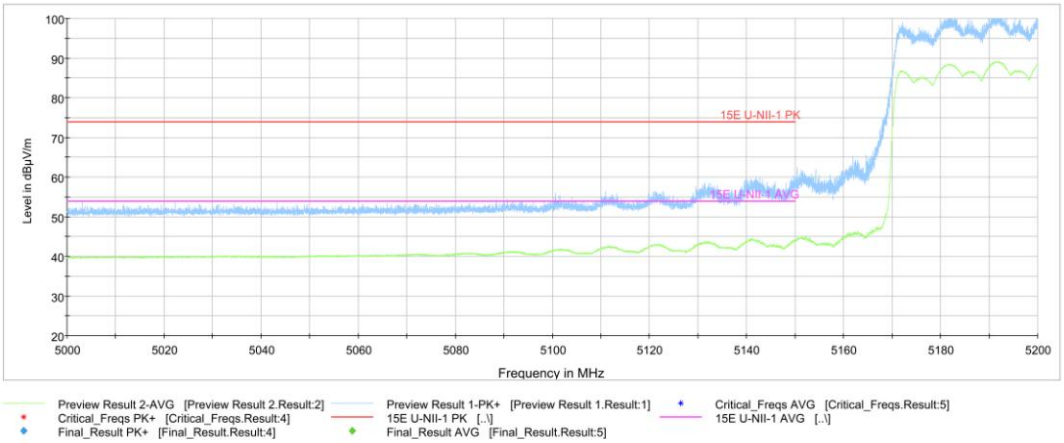


Fig.37 Band Edges (802.11ax-HT80 Ch42, 5210MHz)

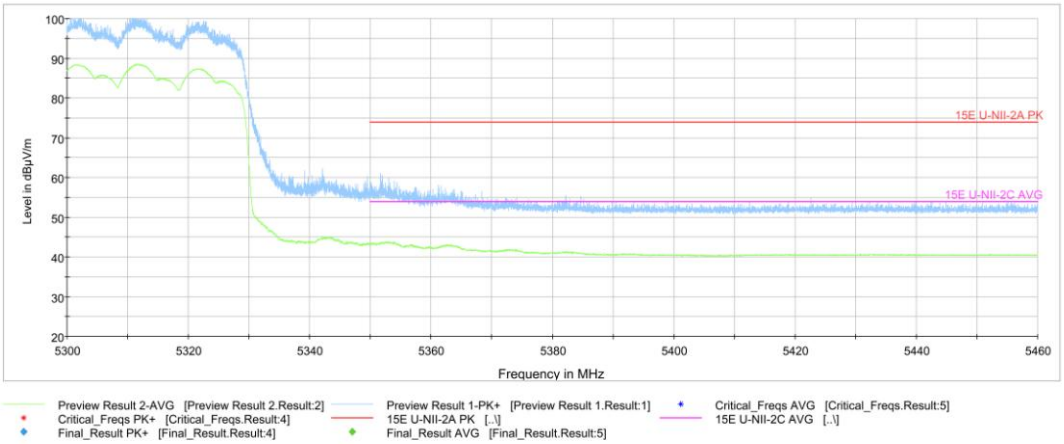


Fig.38 Band Edges (802.11ax-HT80 Ch58, 5290MHz)

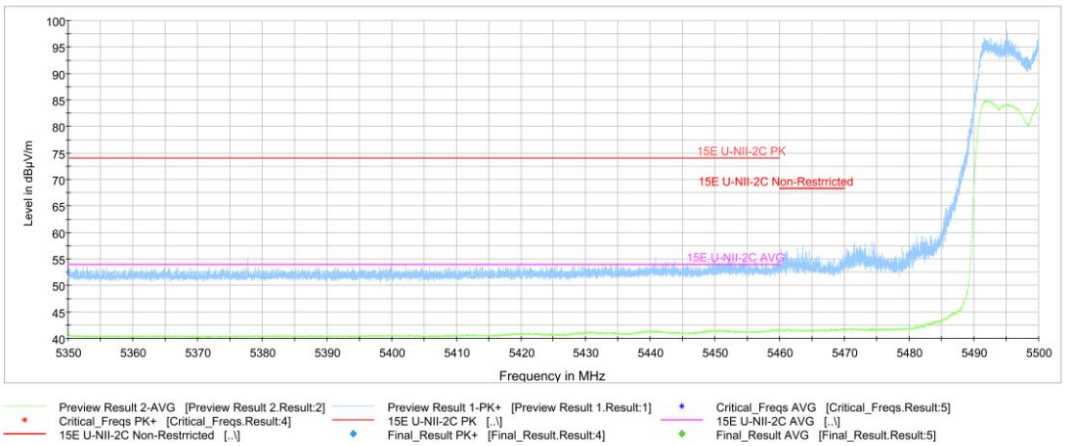


Fig.39 Band Edges (802.11ax-HT80 Ch106, 5530MHz)

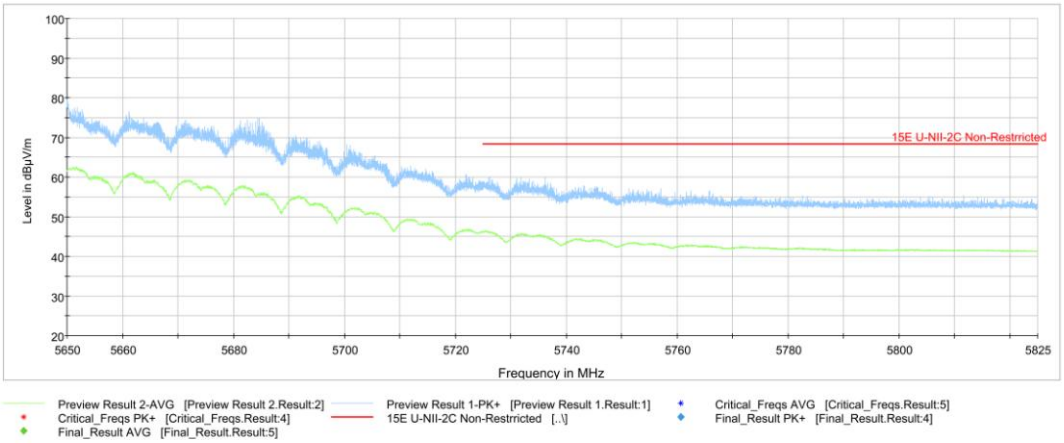


Fig.40 Band Edges (802.11ax-HT80 Ch122, 5610MHz)

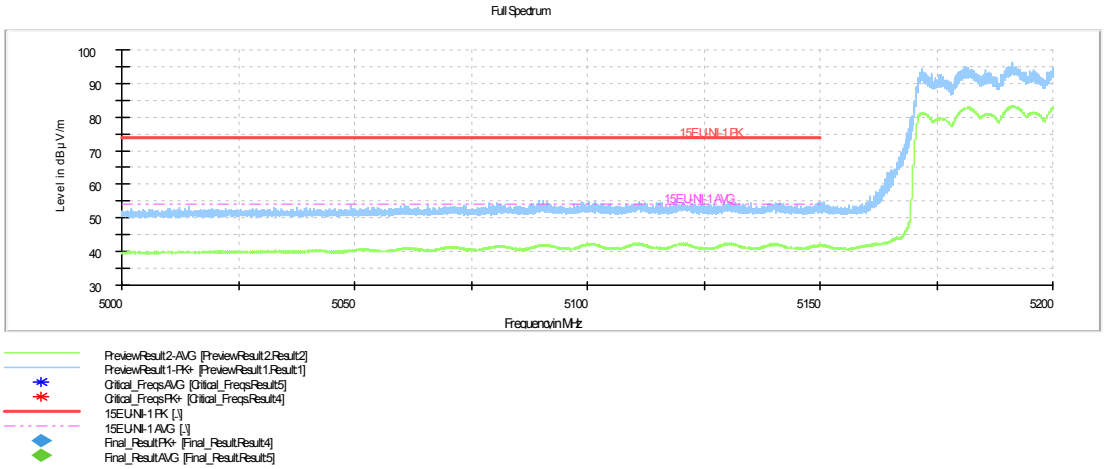


Fig.41 Band Edges (802.11ax-HT160 Ch50-L, 5250MHz)

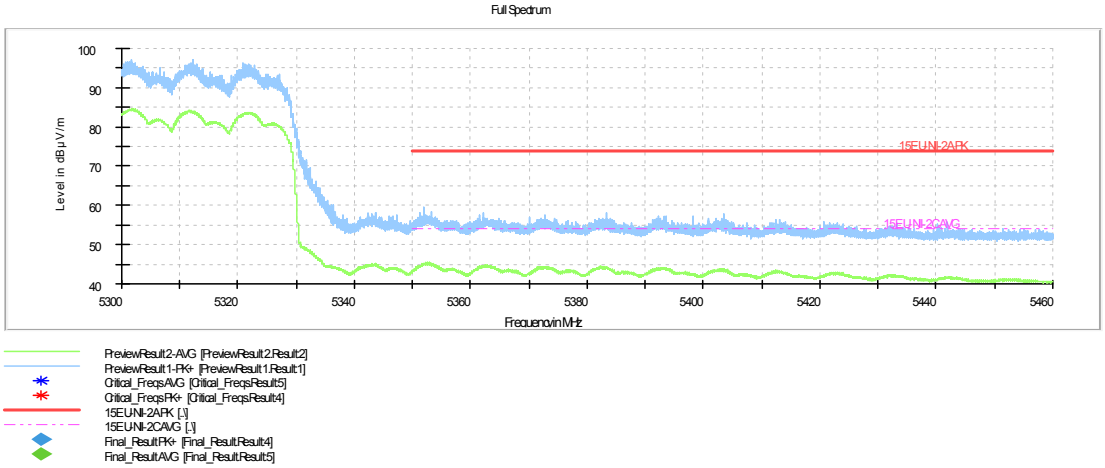


Fig.42 Band Edges (802.11ax-HT160 Ch50-R, 5250MHz)

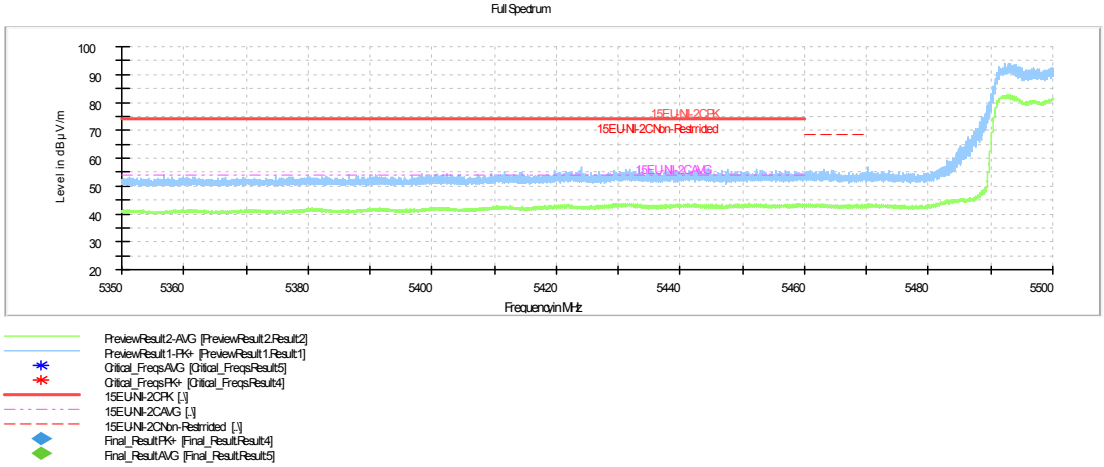


Fig.43 Band Edges (802.11ax-HT160 Ch114-L, 5570MHz)

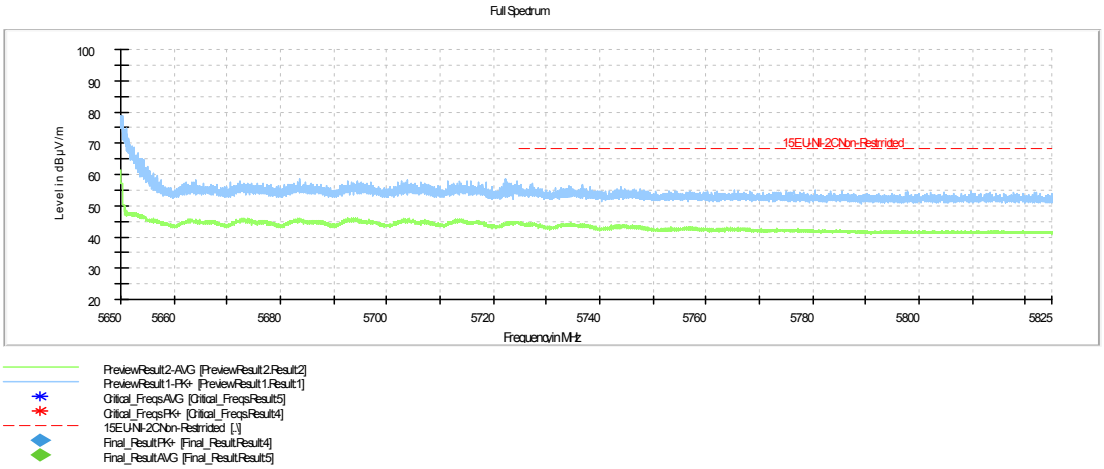


Fig.44 Band Edges (802.11ax-HT160 Ch114-R, 5570MHz)

C.2. AC Power-line Conducted Emission

Reference

FCC 47 CFR Part 15, Clause 15.407 Clause 15.207

Method of Measurement:

See ANSI C63.10-2013 specifically.

See 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.

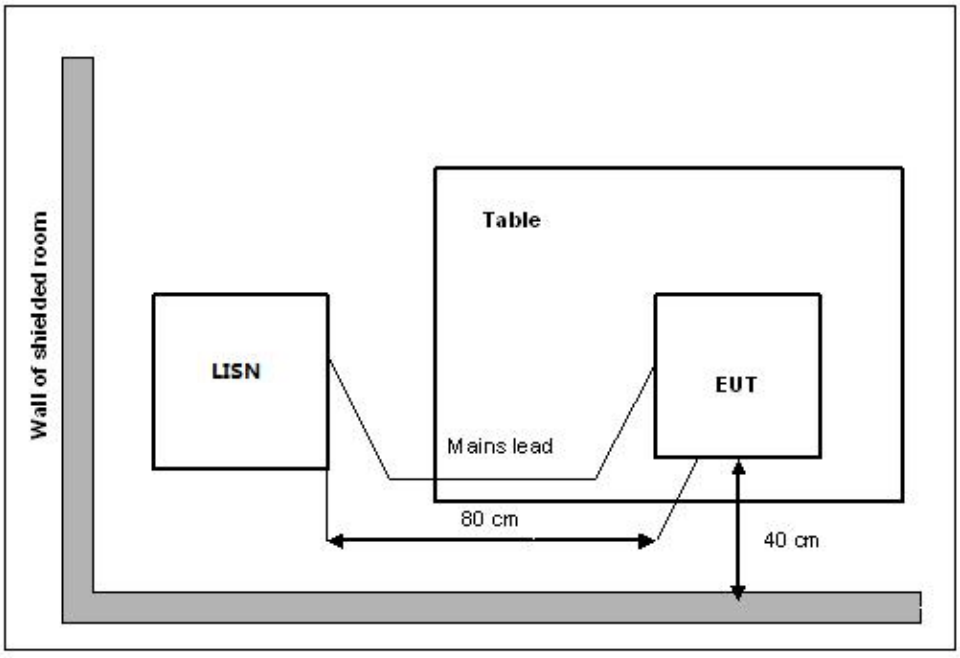
The measurement bandwidth is:

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

TesTest 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 travel adapter.

Measurement Result and limit:

EUT set-up No.	Combination of EUT and AE	ANT NO.
Set.1-1	EUT1 + AE1-1+AE2-1	MIMO
Set.1-2	EUT2 + AE1-1+AE2-2/AE2-3	MIMO

For EUT1 and EUT2 with were performed separately in MIMO and only the worst cases are shown in this report.

Set.1-1, Set.1-2

802.11a/802.11n-HT20/802.11n-HT40/802.11ac-HT20 mode/802.11ac-HT40/802.11ac-HT80/

802.11ac-HT160/802.11ax-HT20 mode/802.11ax-HT40/802.11ax-HT80/802.11ax-HT160:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		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 (dBμV)	Result (dBμV)		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:

Set.1-2, 802.11a, MIMO

Traffic:

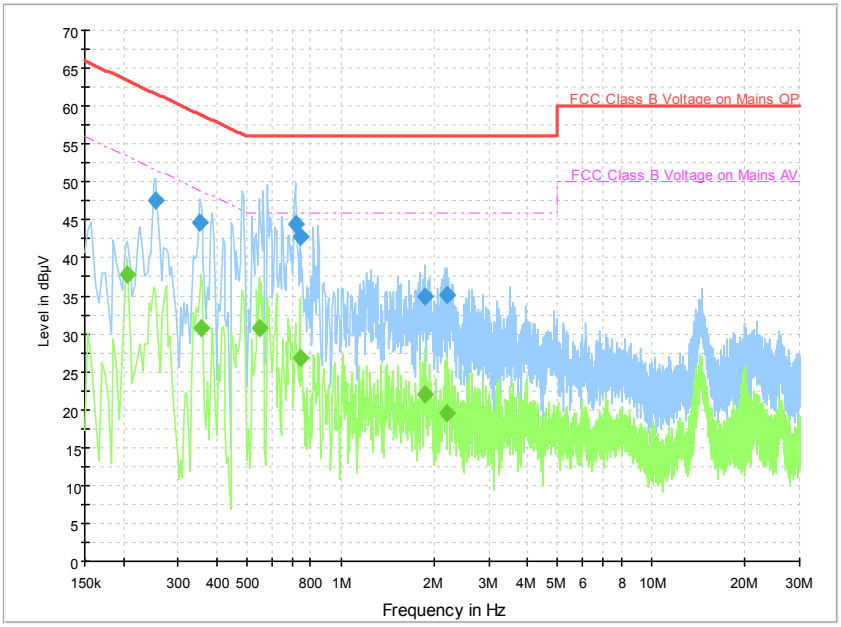


Fig.C.2.1 AC Powerline Conducted Emission-802.11a

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)
0.254000	47.7	5000.0	9.000	On	L1	20.0	14.0
0.350000	44.6	5000.0	9.000	On	N	19.9	14.3
0.714000	44.4	5000.0	9.000	On	N	19.8	11.6
0.738000	42.8	5000.0	9.000	On	N	19.8	13.2
1.874000	34.8	5000.0	9.000	On	N	19.7	21.2
2.202000	35.1	5000.0	9.000	On	N	19.7	20.9

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.206000	37.9	5000.0	9.000	On	L1	20.0	15.5
0.354000	30.7	5000.0	9.000	On	N	19.9	18.1
0.546000	30.8	5000.0	9.000	On	N	19.9	15.2
0.738000	26.9	5000.0	9.000	On	N	19.8	19.1
1.874000	22.1	5000.0	9.000	On	L1	19.4	23.9
2.202000	19.4	5000.0	9.000	On	N	19.7	26.6

Idle:

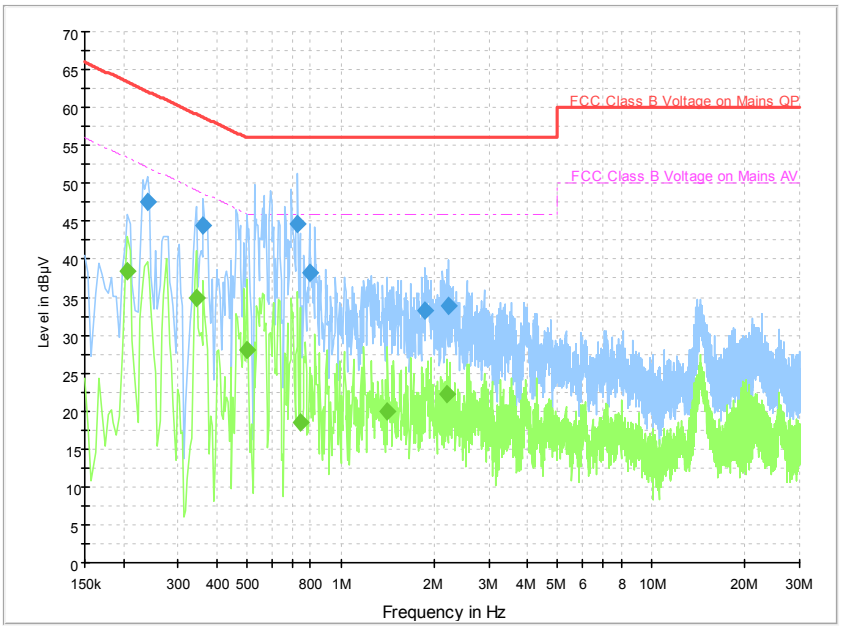


Fig.C.2.2 AC Powerline Conducted Emission-Idle

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)
0.238000	47.5	5000.0	9.000	On	L1	20.0	14.6
0.362000	44.5	5000.0	9.000	On	N	19.9	14.1
0.726000	44.6	5000.0	9.000	On	N	19.8	11.4
0.794000	38.3	5000.0	9.000	On	N	19.8	17.7
1.862000	33.2	5000.0	9.000	On	L1	19.5	22.8
2.222000	33.9	5000.0	9.000	On	N	19.7	22.1

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.206000	38.4	5000.0	9.000	On	L1	20.0	15.0
0.342000	35.0	5000.0	9.000	On	L1	20.0	14.2
0.498000	28.1	5000.0	9.000	On	N	20.0	18.0
0.738000	18.6	5000.0	9.000	On	N	19.8	27.4
1.418000	20.0	5000.0	9.000	On	L1	19.5	26.0
2.190000	22.2	5000.0	9.000	On	N	19.7	23.8

***** END OF REPORT BODY *****