FCC PART 15
TEST REPORT
No.I22Z61813-IOT04

for

Honor Device Co., Ltd.

Smart Phone

RMO-NX3

With

FCC ID: 2AYGCRMO-NX3

Hardware Version: HN2RMOM

Software Version: 6.1.0.21(C900E21R1P1)

Issued Date: 2022-11-04

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
I22Z61813-IOT04	Rev.0	1st edition	2022-11-04

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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

Conducted testing Location: CTTL(Huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

Radiated testing Location: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China100191

1.3. Testing Environment

Normal Temperature: 15-35°C

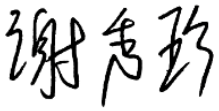
Relative Humidity: 20-75%

1.4. Project date

Testing Start Date: 2022-10-09

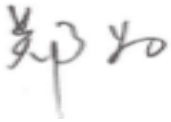
Testing End Date: 2022-11-04

1.5. Signature



Xie Xiuzhen

(Prepared this test report)



Zheng Wei

(Reviewed this test report)

Pang Shuai

(Approved this test report)

2. CLIENT INFORMATION

2.1 Applicant Information

Company Name:	Honor Device Co., Ltd.
Address:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
City:	Shenzhen
Country:	China
Telephone:	/
Fax:	/

2.2 Manufacturer Information

Company Name:	Honor Device Co., Ltd.
Address:	Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China
City:	Shenzhen
Country:	China
Telephone:	/
Fax:	/

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARYEQUIPMENT(AE)

3.1. About EUT

Description	Smart Phone
Model name	RMO-NX3
FCC ID	2AYGCRMO-NX3
WLAN Frequency Band	ISM Bands: -5150MHz~5250MHz -5250MHz~5350MHz -5470MHz~5725MHz
Type of modulation	OFDM
Antenna	Integral Antenna
Antenna Gain	0dBi
Voltage	3.87V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT07a	869123060002698/ 869123060006962	HN2RMOM	6.1.0.21(C900E21R1P1)
UT35a	869123060003308/	HN2RMOM	6.1.0.21(C900E21R1P1)
UT22a	869123060004322/ 869123060008596	HN2RMOM	6.1.0.21(C900E21R1P1)
UT25a	869123060003670/ 869123060007945	HN2RMOM	6.1.0.21(C900E21R1P1)
UT26a	869123060004835/ 869123060009107	HN2RMOM	6.1.0.21(C900E21R1P1)

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

UT07a and UT35a is used for Conduction test, UT22a/25a/26a are used for Radiation test.

3.3. Internal Identification of AE used during the test

AE ID*	Name	Model	Manufacturer
AE1-1	Adapter	HW-100400E01	Honor Device Co., Ltd.
AE1-2	Adapter	HW-100400B01	Honor Device Co., Ltd.
AE1-3	Adapter	HW-100400U01	Honor Device Co., Ltd.
AE2-1	USB Cable	WA0052	Broad
AE2-2	USB Cable	CUDU01B-HC385-EH	FOXCONN
AE2-3	USB Cable	L99UC144-CS-H	LUXSHARE
AE2-4	USB Cable	AU2-CRO009HF	Freeport
AE2-5	USB Cable	2120-00062-0	MING JI

AE2-6	USB Cable	2120-00060-0	MING JI
AE2-7	USB Cable	L99UC139-CS-H	LUXSHARE
AE3-1	Headset	1293-3283-3.5mm-339	Quancheng
AE3-2	Headset	EPAB542-2WH05-DH	FOXCONN
AE3-3	Headset	MEND1532B528C00	Lianchuang
AE4-1	Battery	HB506492EFW	Honor Device Co., Ltd.（Sunwoda）
AE4-2	Battery	HB506492EFW	Honor Device Co., Ltd.（Desay）
AE4-3	Battery	HB506492EFW	Honor Device Co., Ltd.（CosMX）
AE5-1	Type-C to 3.5mm	USB042020090AW7	LC
AE5-2	Type-C to 3.5mm	6001-7001-TC-348	QC

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

3.4. General Description

The Equipment under Test (EUT) is a model of Smart Phone with integrated antenna and inbuilt battery.

It has Bluetooth (EDR)function.

It consists of normal options: travel charger, USB cable.

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

Samples undergoing test were selected by the client.

3.5. 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.

FCC Part15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices	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

5. LABORATORY ENVIRONMENT

Conducted RF performance testing is performed in shielding room.

EMC performance testing is performed in Semi-anechoic chamber.

6. SUMMARY OF TEST RESULTS

6.1. Summary of Test Results

SUMMARY OF MEASUREMENT RESULTS	Sub-clause of Part15E	Sub-clause of IC	Verdict
Maximum Output Power	15.407	/	**P**
Peak Power Spectral Density	15.407	/	**P**
Occupied 26dB Bandwidth	15.403	/	**P**
Band edge compliance (Radiated)	15.209	/	**P**
Transmitter spurious emissions (Radiated)	15.407	/	**P**
AC Powerline Conducted Emission (150kHz- 30MHz)	15.407	/	**P**
Frequency Stability	15.407	/	**P**
99% Occupied bandwidth	/	/	**P**
Transmit Power Control	15.407	/	**NA**

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

Terms used in Verdict column

P	Pass, The EUT complies with the essential requirements in the standard.
NM	Not measured, The test was not measured by CTTL
NA	Not Applicable, The test was not applicable
F	Fail, The EUT does not comply with the essential requirements in the standard

6.2. Statements

CTTL has evaluated the test cases requested by the client/manufacturer as listed in section 6.1 of this report for the EUT specified in section 3 according to the standards or reference documents listed in section 4.1.

This report only deals with the WLAN function among the features described in section 3.

6.3. Test Conditions

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

Temperature	26℃
Voltage	3.87V
Humidity	44%

7. TEST EQUIPMENTS UTILIZED

Conducted test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Vector Signal Analyzer	FSQ40	200089	Rohde & Schwarz	1 year	2023-05-15
2	Test Receiver	ESCI	100344	Rohde & Schwarz	1 year	2023-03-21
3	LISN	ENV216	101200	Rohde & Schwarz	1 year	2023-06-29
4	Shielding Room	S81	/	ETS-Lindgren	/	/

Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESW44	103015	Rohde & Schwarz	1 year	2023-01-23
2	BiLog Antenna	VULB9163	01223	Schwarzbeck	1 year	2023-07-25
3	Dual-Ridge Waveguide Horn Antenna	3116	2661	ETS-Lindgren	1 year	2023-02-08
4	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2023-06-20
5	Antenna	HFH2-Z2	829324/007	Rohde & Schwarz	1 year	2022-12-22

8. Measurement Uncertainty

8.1 Transmitter Output Power

Measurement Uncertainty: 0.387dB,k=1.96

8.2 Peak Power Spectral Density

Measurement Uncertainty: 0.705dB,k=1.96

8.3 Occupied Channel Bandwidth

Measurement Uncertainty: 60.80Hz,k=1.96

8.4 Band Edges Compliance

Measurement Uncertainty : 0.62dB,k=1.96

8.5 Spurious Emissions

Conducted (k=1.96)

Frequency Range	Uncertainty(dB)
30MHz ≤ f ≤ 2GHz	1.22
2GHz ≤ f ≤3.6GHz	1.22
3.6GHz ≤ f ≤8GHz	1.22
8GHz ≤ f ≤12.75GHz	1.51
12.75GHz ≤ f ≤26GHz	1.51
26GHz ≤ f ≤40GHz	1.59

Radiated (k=2)

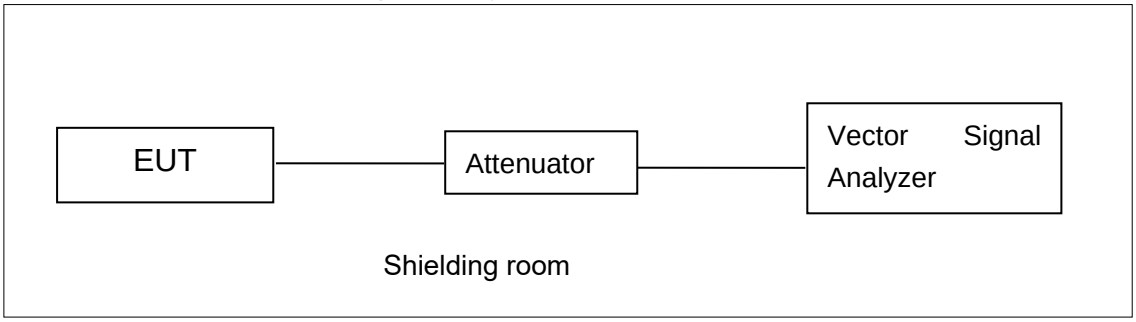
Frequency Range	Uncertainty(dB)
9kHz-30MHz	4.92
30MHz ≤ f ≤ 1GHz	5.18
1GHz ≤ f ≤18GHz	5.54
18GHz ≤ f ≤40GHz	5.26

ANNEX A: MEASUREMENT RESULTS

A.1. Measurement Method

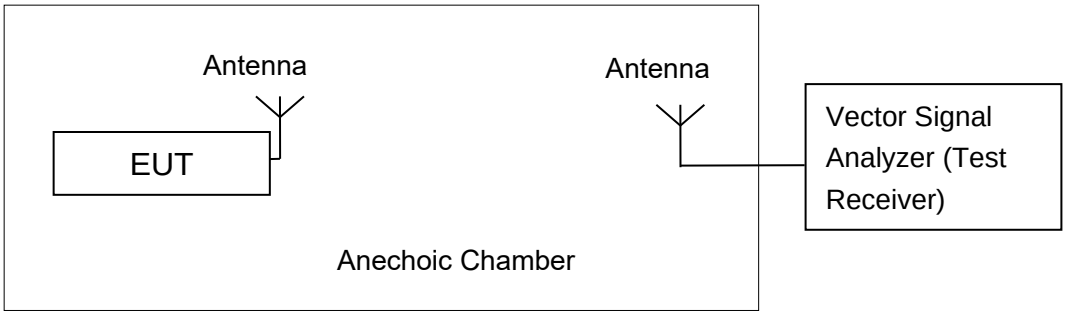
A.1.1. Conducted Measurements

1). Connect the EUT to the test system correctly.
2). Set the EUT to the required work mode.
3). Set the EUT to the required channel.
4). Set the spectrum analyzer to start measurement.
5). Record the values. Vector Signal Analyzer



A.1.2. Radiated Emission Measurements

In the case of radiated emission, the used settings are as follows,
Sweep frequency from 30 MHz to 1GHz, RBW = 100 kHz, VBW = 300 kHz;
Sweep frequency from 1 GHz to 26GHz, RBW = 1MHz, VBW = 10Hz;



The measurement is made according to 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.

A.2. Maximum output Power

Measurement Limit and Method:

Standard	Frequency (MHz)	Limit (dBm)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	24dBm
	5250MHz~5350MHz	24dBm or 11+10logB
	5470MHz~5725MHz	24dBm or 11+10logB

Limit use the less value, and B is the 26dB bandwidth.

The measurementmethod SA-2 is made according to KDB 789033

Measurement Results:

802.11a mode

Mode	Frequency	Test Result (dBm)							
		Data Rate (Mbps)							
		6	9	12	18	24	36	48	54
802.11a	5180MHz	14.31	/	/	/	/	/	/	/
	5200MHz	14.66	/	/	/	/	/	/	/
	5240MHz	14.19	/	/	/	/	/	/	/
	5260MHz	14.12	/	/	/	/	/	/	/
	5280MHz	14.11	/	/	/	/	/	/	/
	5320MHz	14.06	/	/	/	/	/	/	/
	5500MHz	13.22	/	/	/	/	/	/	/
	5580MHz	14.49	/	/	/	/	/	/	/
	5700MHz	11.09	/	/	/	/	/	/	/
	5720MHz	13.59	/	/	/	/	/	/	/

The data rate 6Mbps is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT20 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT20)	5180MHz	13.84	/	/	/	/	/	/	/
	5200MHz	14.32	/	/	/	/	/	/	/
	5240MHz	13.47	/	/	/	/	/	/	/
	5260MHz	13.99	/	/	/	/	/	/	/
	5280MHz	13.86	/	/	/	/	/	/	/
	5320MHz	13.59	/	/	/	/	/	/	/
	5500MHz	11.55	/	/	/	/	/	/	/
	5580MHz	13.85	/	/	/	/	/	/	/
	5700MHz	10.45	/	/	/	/	/	/	/
	5720MHz	13.53	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT20 mode

Mode	Frequency	Test Result (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
802.11ac (HT20)	5180MHz	13.91	/	/	/	/	/	/	/	/
	5200MHz	14.39	/	/	/	/	/	/	/	/
	5240MHz	13.49	/	/	/	/	/	/	/	/
	5260MHz	13.98	/	/	/	/	/	/	/	/
	5280MHz	13.86	/	/	/	/	/	/	/	/
	5320MHz	13.59	/	/	/	/	/	/	/	/
	5500MHz	11.48	/	/	/	/	/	/	/	/
	5580MHz	13.87	/	/	/	/	/	/	/	/
	5700MHz	10.44	/	/	/	/	/	/	/	/
	5720MHz	13.52	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11n-HT40 mode

Mode	Frequency	Test Result (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (HT40)	5190MHz	11.64	/	/	/	/	/	/	/
	5230MHz	14.22	/	/	/	/	/	/	/
	5270MHz	14.44	/	/	/	/	/	/	/
	5310MHz	11.31	/	/	/	/	/	/	/
	5510MHz	11.93	/	/	/	/	/	/	/
	5550MHz	14.72	/	/	/	/	/	/	/
	5670MHz	14.75	/	/	/	/	/	/	/
	5710MHz	14.11	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT40 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (HT40)	5190MHz	11.66	/	/	/	/	/	/	/	/	/
	5230MHz	14.26	/	/	/	/	/	/	/	/	/
	5270MHz	14.55	/	/	/	/	/	/	/	/	/
	5310MHz	11.34	/	/	/	/	/	/	/	/	/
	5510MHz	11.91	/	/	/	/	/	/	/	/	/

	5550MHz	14.72	/	/	/	/	/	/	/	/	/
	5670MHz	14.73	/	/	/	/	/	/	/	/	/
	5710MHz	14.08	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

802.11ac-VHT80 mode

Mode	Frequency	Test Result (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
802.11ac (HT80)	5210MHz	10.97	/	/	/	/	/	/	/	/	/
	5290MHz	9.75	/	/	/	/	/	/	/	/	/
	5530MHz	11.44	/	/	/	/	/	/	/	/	/
	5610MHz	14.93	/	/	/	/	/	/	/	/	/
	5690MHz	14.49	/	/	/	/	/	/	/	/	/

The data rate MCS0 is selected as worst condition, and the following cases are performed with this condition.

Duty Cycle

Mode	802.11a	802.11n20	802.11n40	802.11ac20	802.11ac40	802.11ac80
Duty Cycle	98%	98%	98%	98%	98%	98%

Conclusion: PASS

A.3. Peak Power Spectral Density (conducted)

Measurement Limit:

Standard	Frequency (MHz)	Limit (dBm/MHz)
FCC CRF Part 15.407(a)	5150MHz~5250MHz	11
	5250MHz~5350MHz	11
	5470MHz~5725MHz	11

The output power measurement method Section F is made according to KDB 789033

Measurement Results:

Mode	Frequency	Power Spectral Density (dBm/MHz)	Conclusion
802.11a	5180 MHz	4.55	P
	5200 MHz	4.50	P
	5240 MHz	4.37	P
	5260 MHz	4.50	P
	5280 MHz	4.57	P
	5320 MHz	4.61	P
	5500 MHz	2.62	P
	5580 MHz	4.31	P
	5700 MHz	0.92	P
	5720 MHz	4.17	P
802.11ac HT20	5180 MHz	4.14	P
	5200 MHz	4.12	P
	5240 MHz	4.01	P
	5260 MHz	4.09	P
	5280 MHz	4.13	P
	5320 MHz	4.19	P
	5500 MHz	1.25	P
	5580 MHz	3.91	P
	5700 MHz	0.50	P
	5720 MHz	4.03	P
802.11n HT40	5190 MHz	-1.28	P
	5230 MHz	1.56	P
	5270 MHz	1.59	P
	5310 MHz	-0.64	P
	5510 MHz	-1.38	P
	5550 MHz	1.38	P
	5670 MHz	1.71	P
	5710 MHz	1.46	P
802.11ac HT80	5210MHz	-5.20	P
	5290MHz	-6.01	P
	5530MHz	-5.06	P

	5610MHz	-1.62	P
	5690MHz	-1.78	P

802.11a 5320MHz

Conclusion: PASS

A.4. Occupied 26dB Bandwidth(conducted)

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.403 (i)	/

The measurement is made according to KDB 789033

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

Measurement Result:

Mode	Frequency	Occupied 26dB Bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.1	23.15	P
	5200 MHz	Fig.2	23.50	P
	5240 MHz	Fig.3	23.25	P
	5260 MHz	Fig.4	23.90	P
	5280 MHz	Fig.5	22.90	P
	5320 MHz	Fig.6	23.00	P
	5500 MHz	Fig.7	23.50	P

	5580 MHz	Fig.8	24.00	P
	5700 MHz	Fig.9	24.05	P
	5720 MHz	Fig.10	24.60	P
802.11ac VHT20	5180 MHz	Fig.11	24.05	P
	5200 MHz	Fig.12	24.25	P
	5240 MHz	Fig.13	24.80	P
	5260 MHz	Fig.14	23.30	P
	5280 MHz	Fig.15	24.65	P
	5320 MHz	Fig.16	24.05	P
	5500 MHz	Fig.17	24.70	P
	5580 MHz	Fig.18	24.30	P
	5700 MHz	Fig.19	24.25	P
	5720 MHz	Fig.20	26.05	P
802.11n HT40	5190 MHz	Fig.21	41.52	P
	5230 MHz	Fig.22	41.20	P
	5270 MHz	Fig.23	41.36	P
	5310 MHz	Fig.24	41.44	P
	5510 MHz	Fig.25	40.88	P
	5550 MHz	Fig.26	40.80	P
	5670 MHz	Fig.27	41.04	P
	5710 MHz	Fig.28	42.00	P
802.11ac VHT80	5210MHz	Fig.29	82.88	P
	5290MHz	Fig.30	82.72	P
	5530MHz	Fig.31	82.88	P
	5610MHz	Fig.32	83.36	P
	5690MHz	Fig.33	87.52	P

Conclusion: PASS

Test graphs as below:

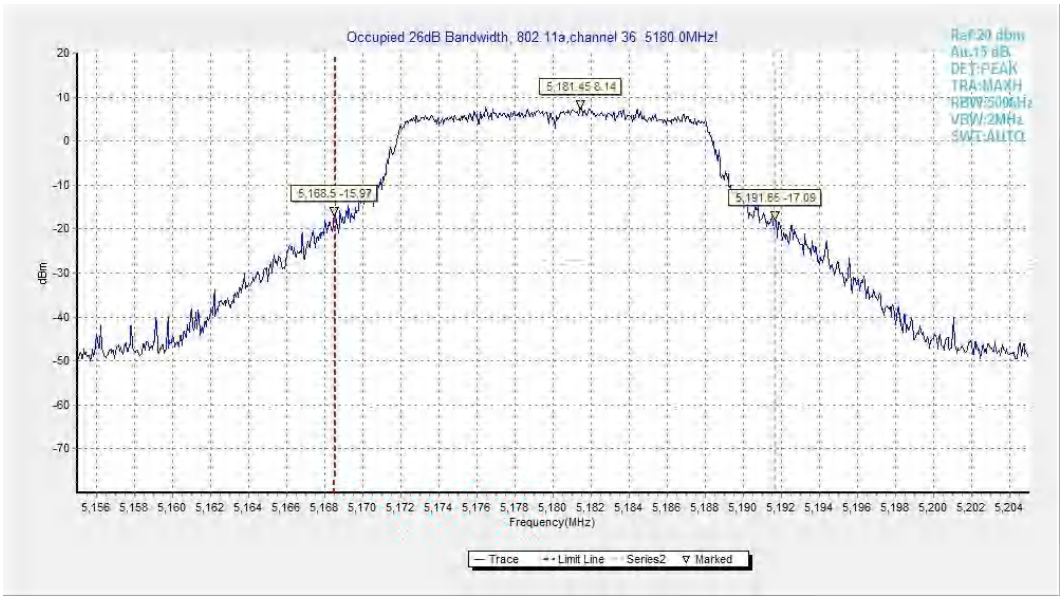


Fig.1 Occupied 26dB Bandwidth (802.11a, 5180MHz)

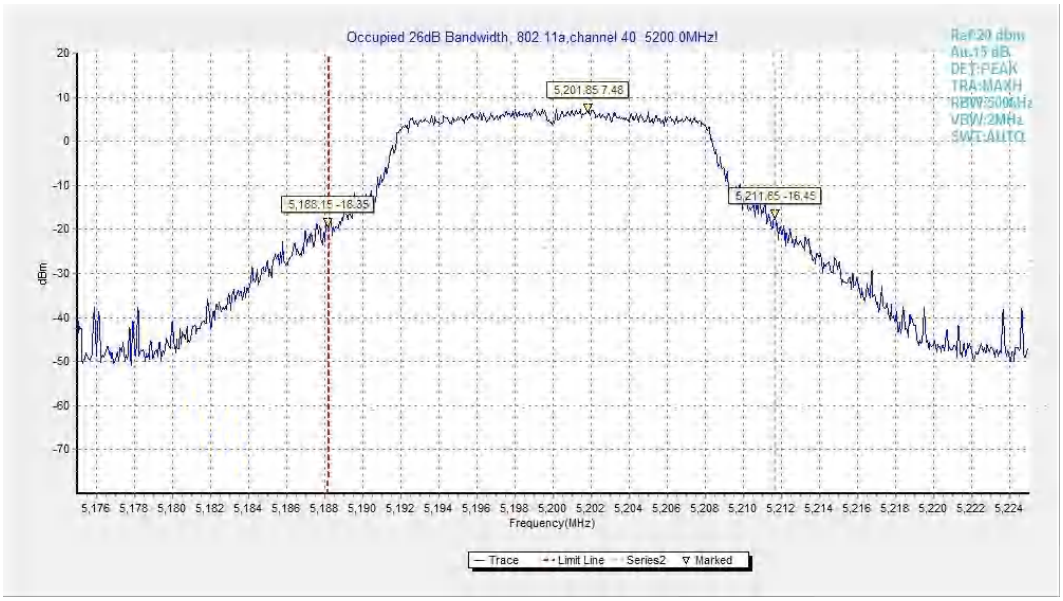


Fig.2 Occupied 26dB Bandwidth (802.11a, 5200MHz)

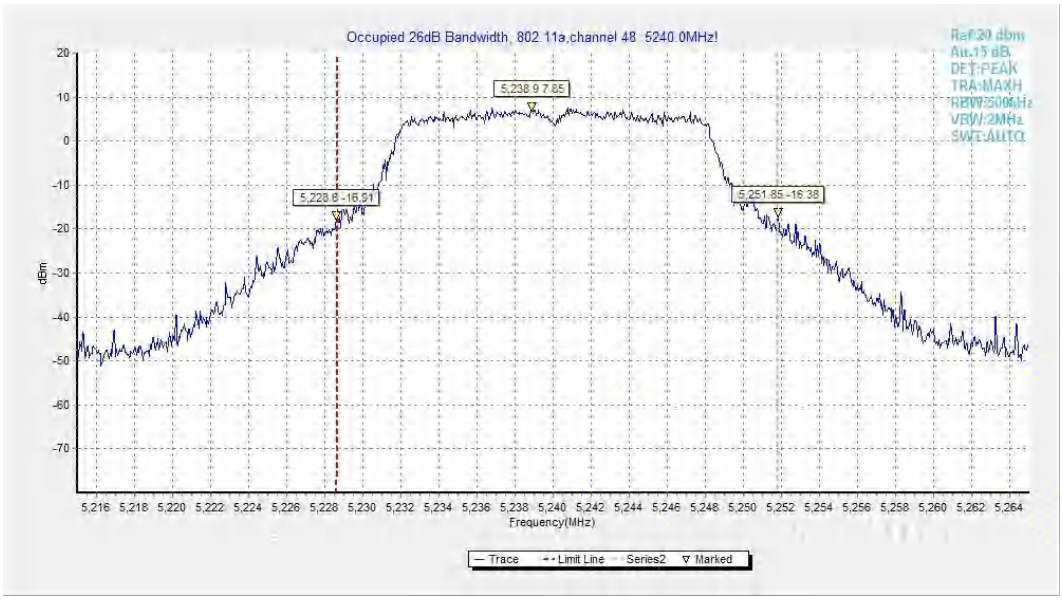


Fig.3 Occupied 26dB Bandwidth (802.11a, 5240MHz)

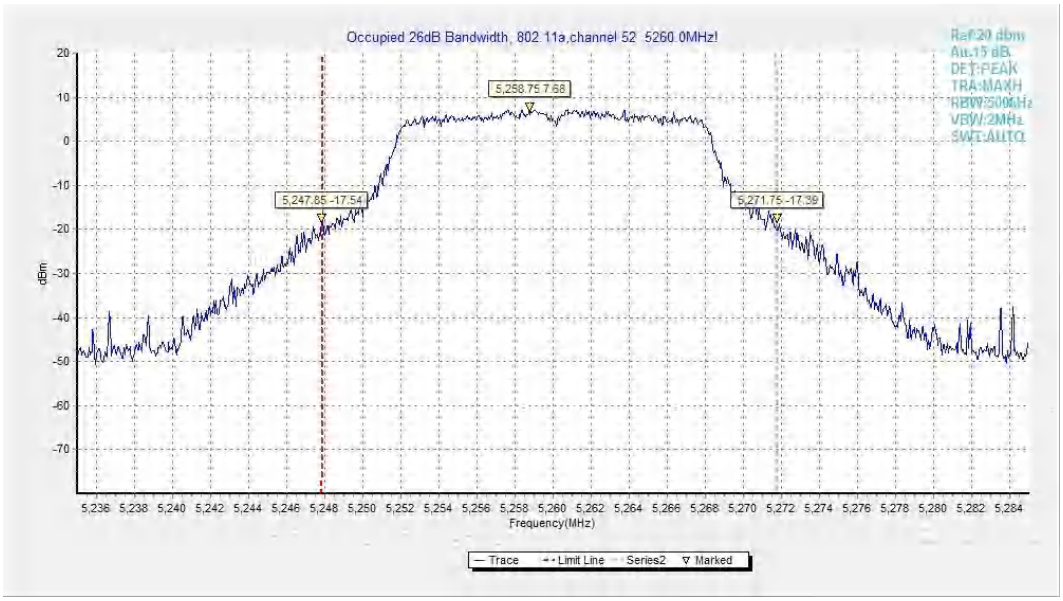


Fig.4 Occupied 26dB Bandwidth (802.11a, 5260MHz)

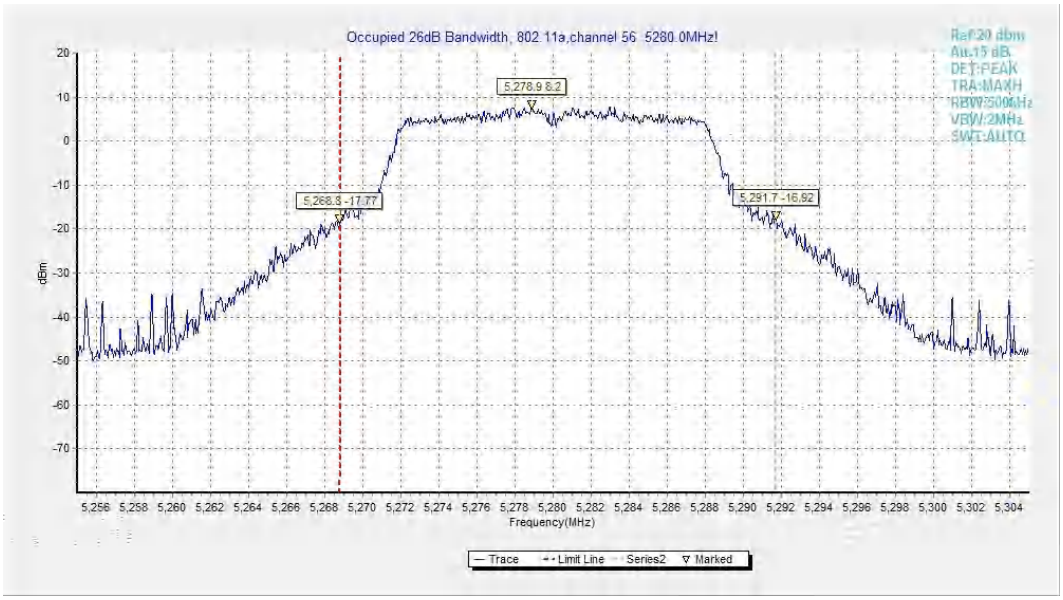


Fig.5 Occupied 26dB Bandwidth (802.11a, 5280MHz)

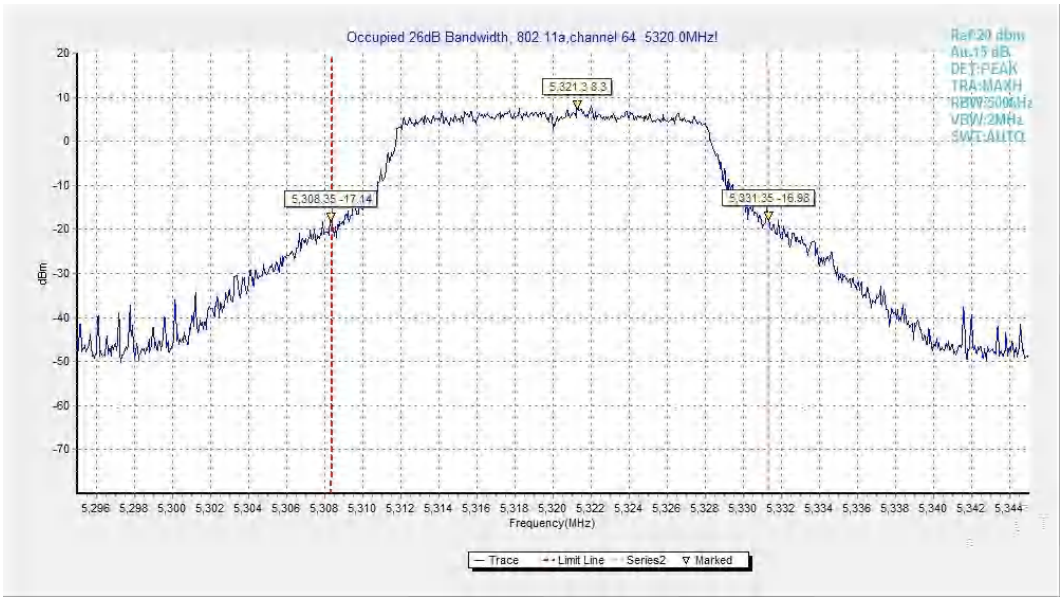


Fig.6 Occupied 26dB Bandwidth (802.11a, 5320MHz)

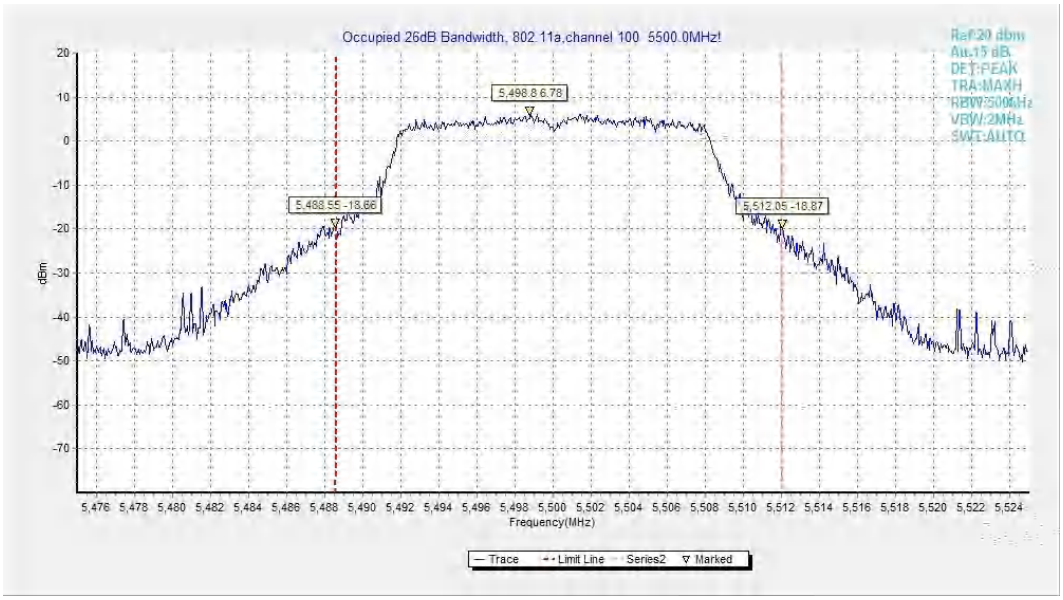


Fig.7 Occupied 26dB Bandwidth (802.11a, 5500MHz)

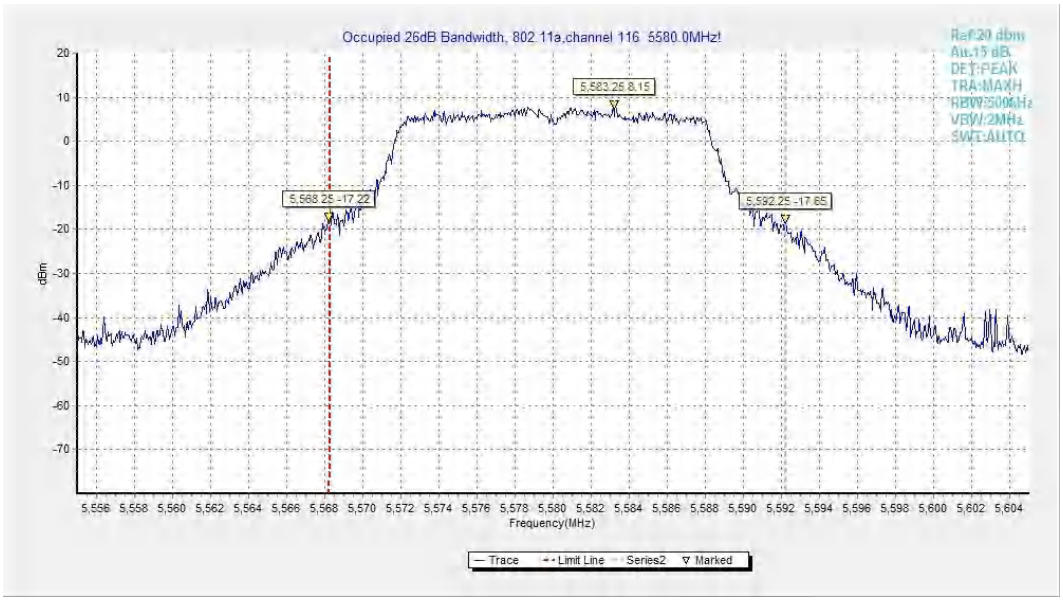


Fig.8 Occupied 26dB Bandwidth (802.11a, 5580MHz)

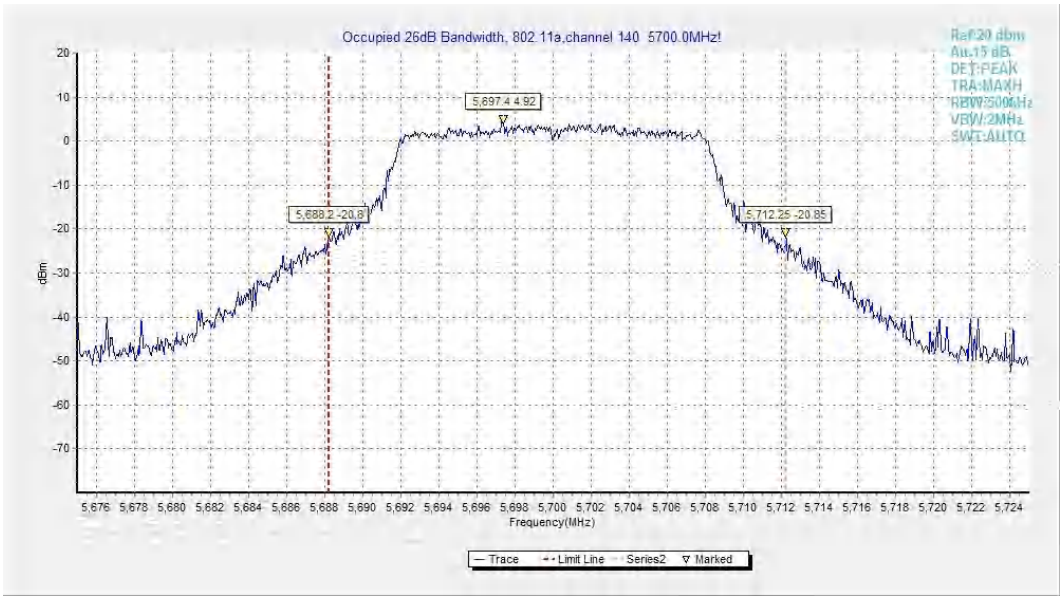


Fig.9 Occupied 26dB Bandwidth (802.11a, 5700MHz)

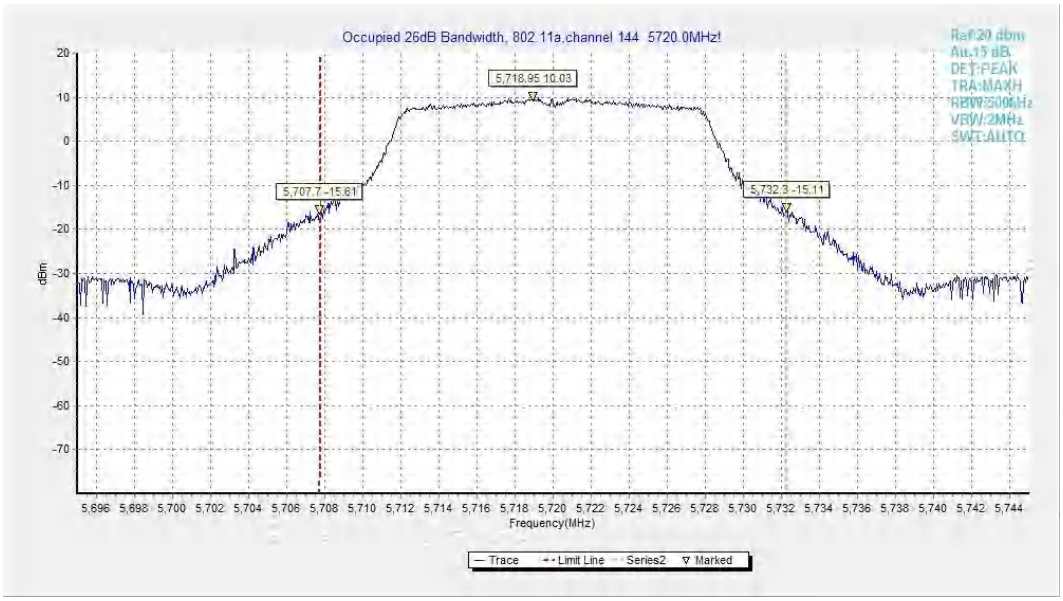


Fig.10 Occupied 26dB Bandwidth (802.11a, 5720MHz)

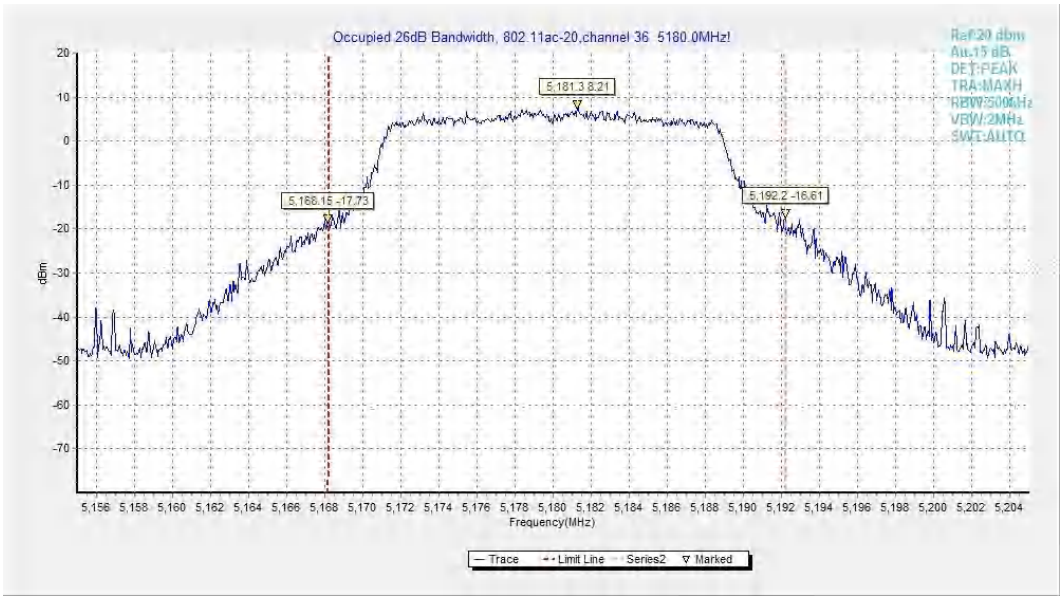


Fig.11 Occupied 26dB Bandwidth (802.11ac-VHT20, 5180MHz)

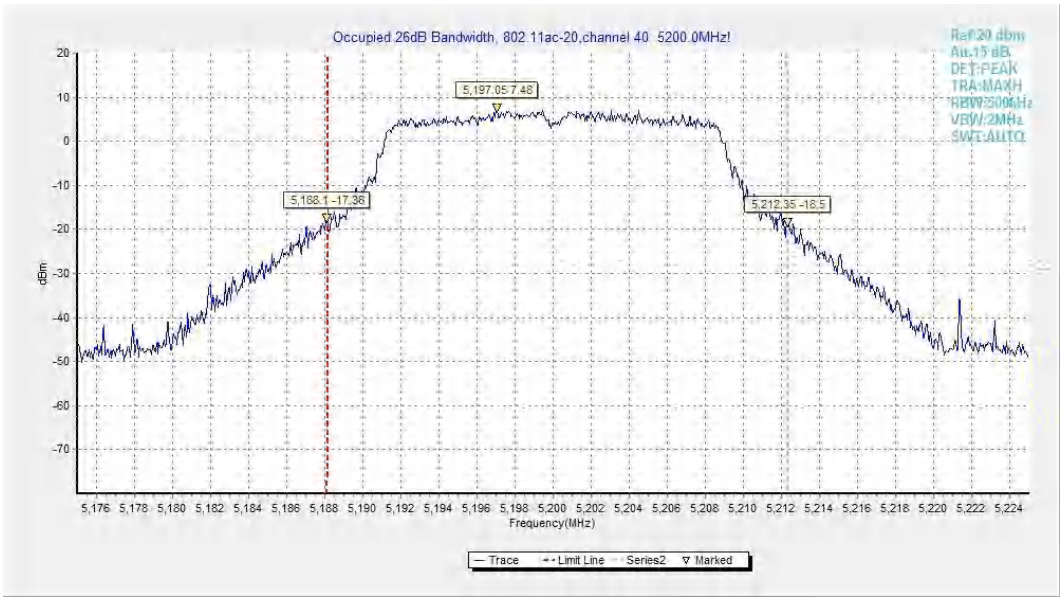


Fig.12 Occupied 26dB Bandwidth (802.11ac-VHT20, 5200MHz)

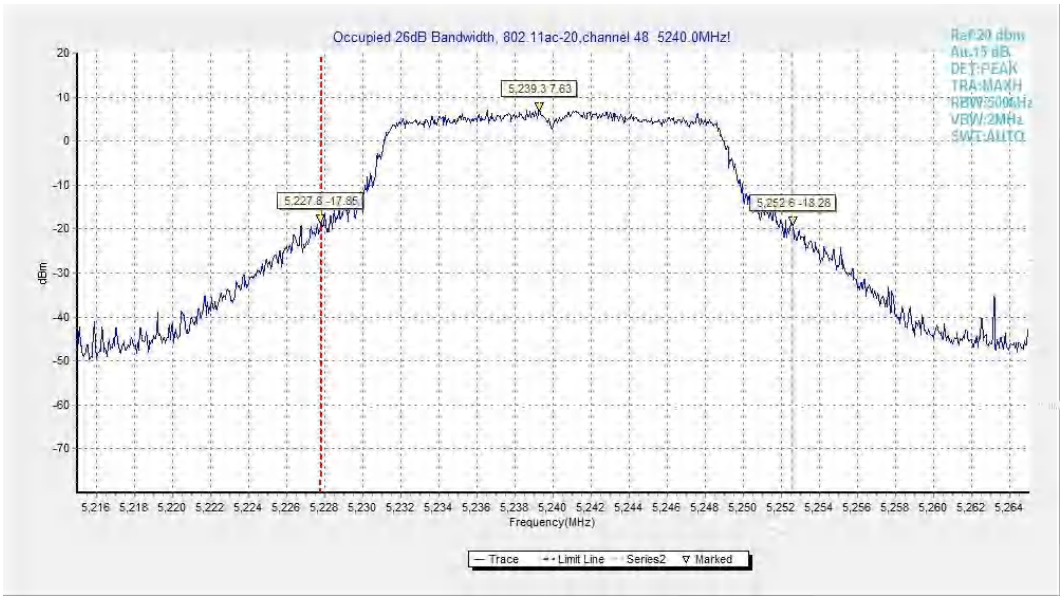


Fig.13 Occupied 26dB Bandwidth (802.11ac-VHT20, 5240MHz)

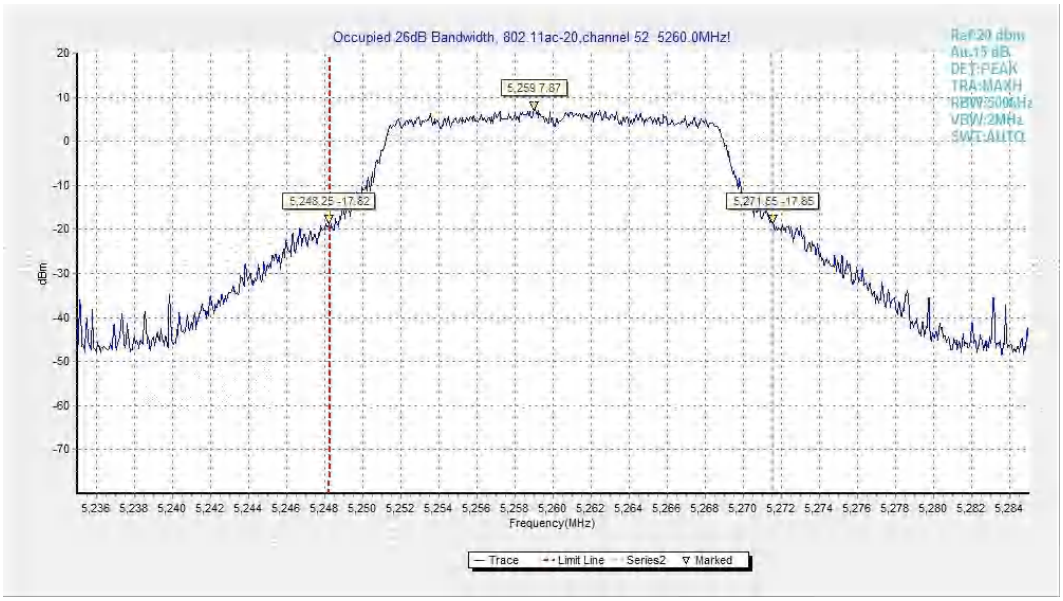


Fig.14 Occupied 26dB Bandwidth (802.11ac-VHT20, 5260MHz)

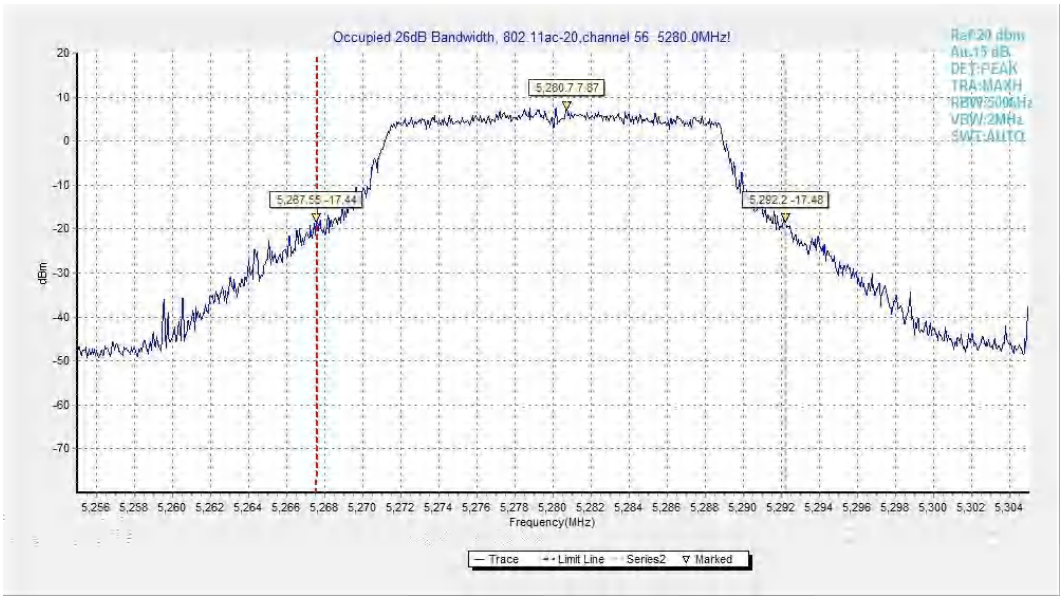


Fig.15 Occupied 26dB Bandwidth (802.11ac-VHT20, 5280MHz)

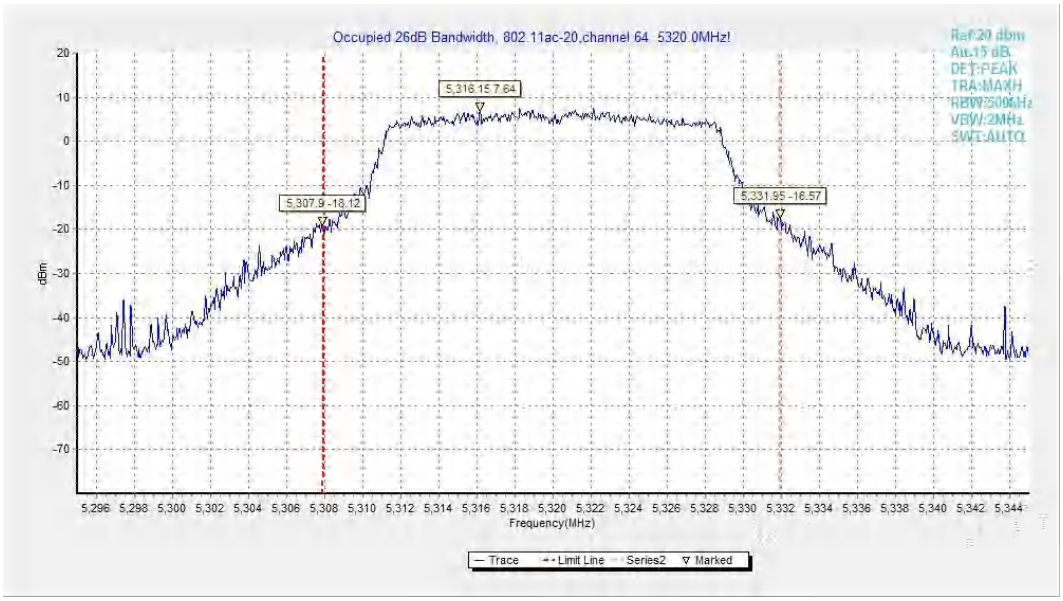


Fig.16 Occupied 26dB Bandwidth (802.11ac-VHT20, 5320MHz)

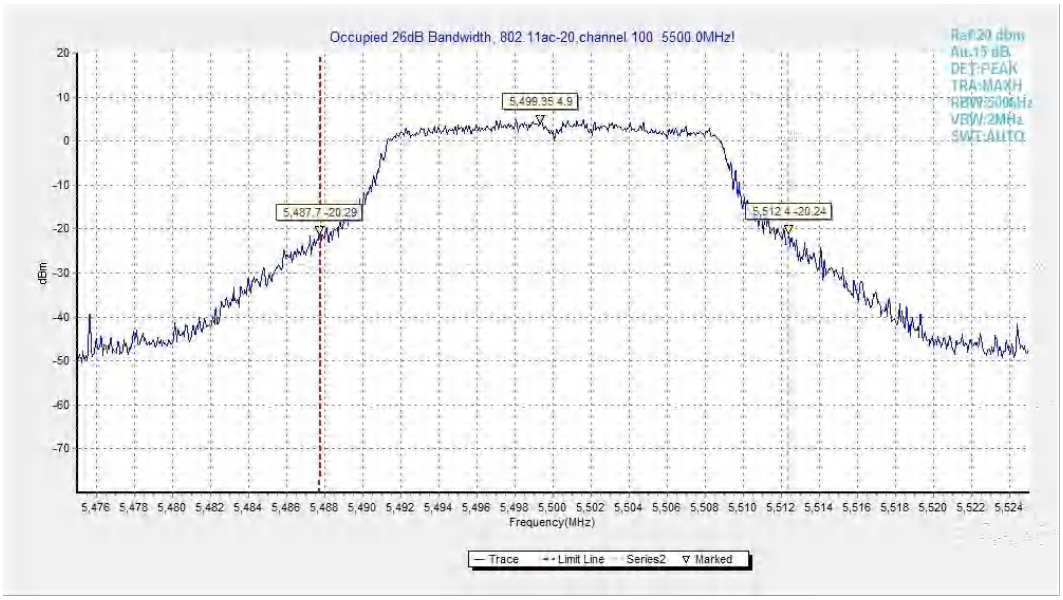


Fig.17 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5500MHz)

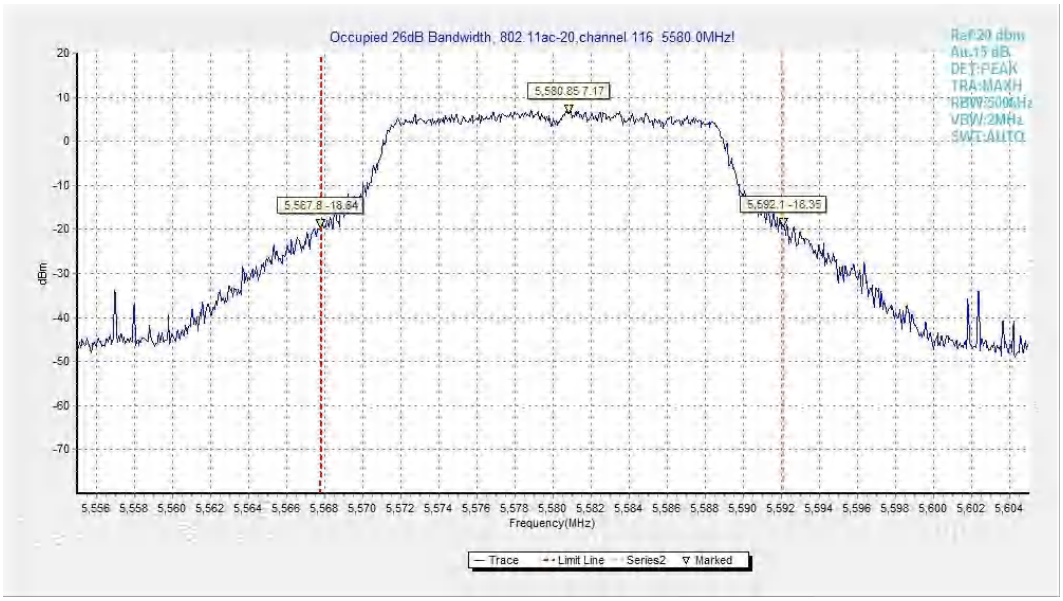


Fig.18 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5580MHz)

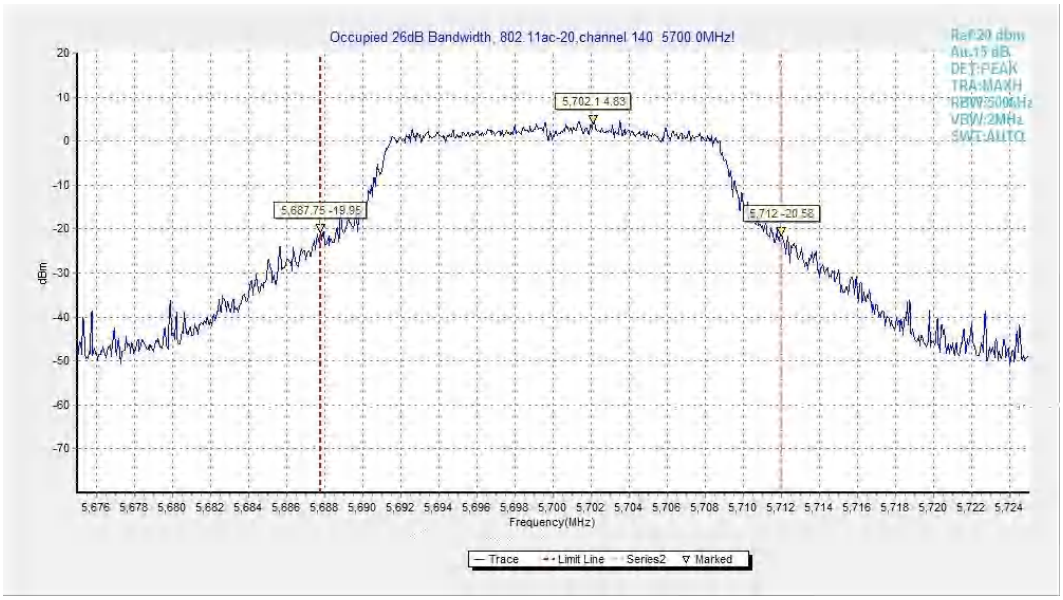


Fig.19 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5700MHz)

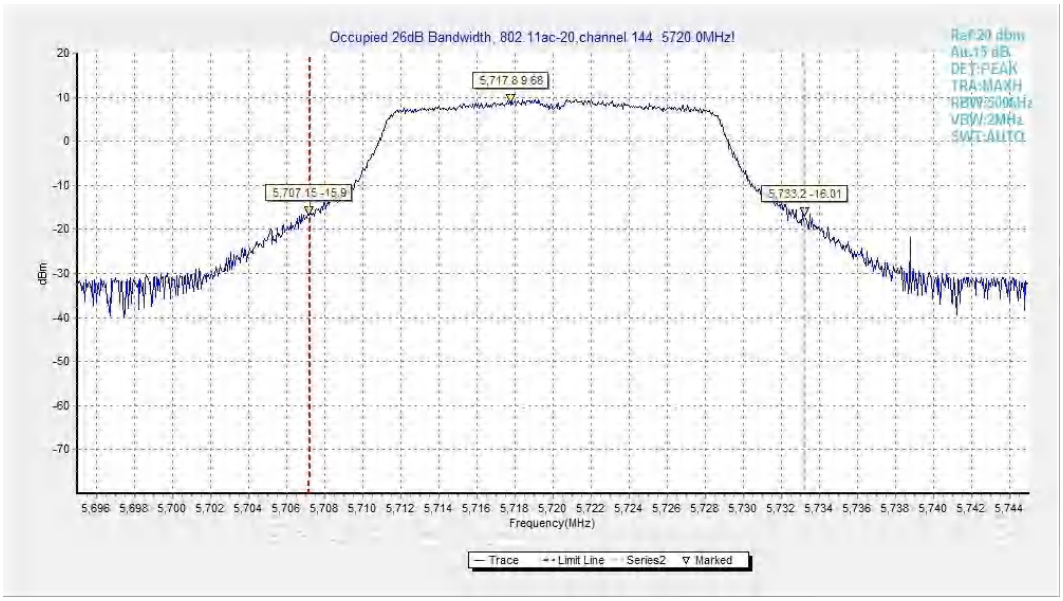


Fig.20 Occupied 26dB Bandwidth (802. 11ac-VHT20, 5720MHz)

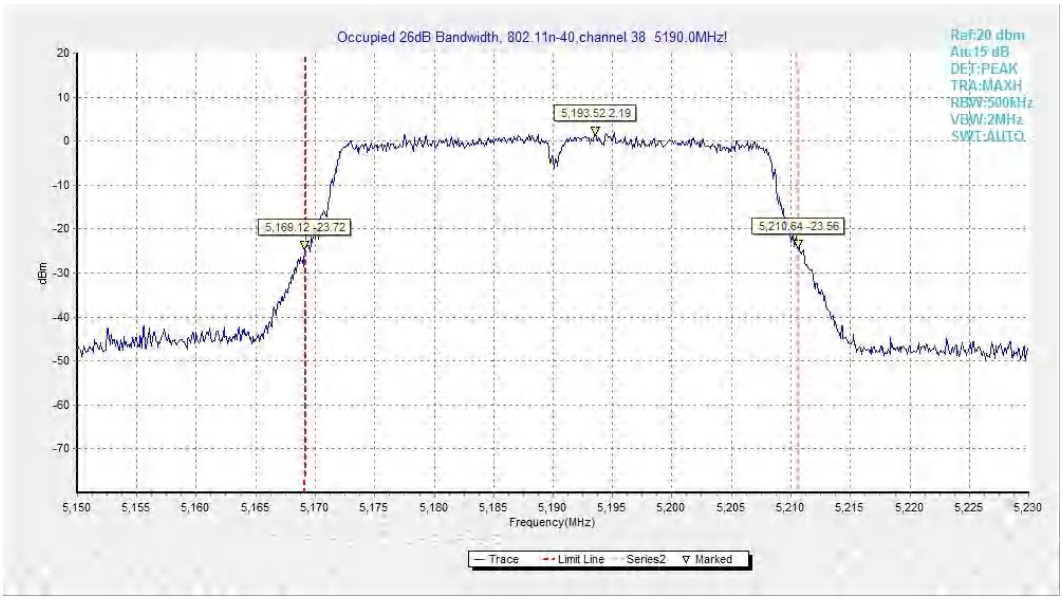


Fig.21 Occupied 26dB Bandwidth (802.11n-HT40, 5190MHz)

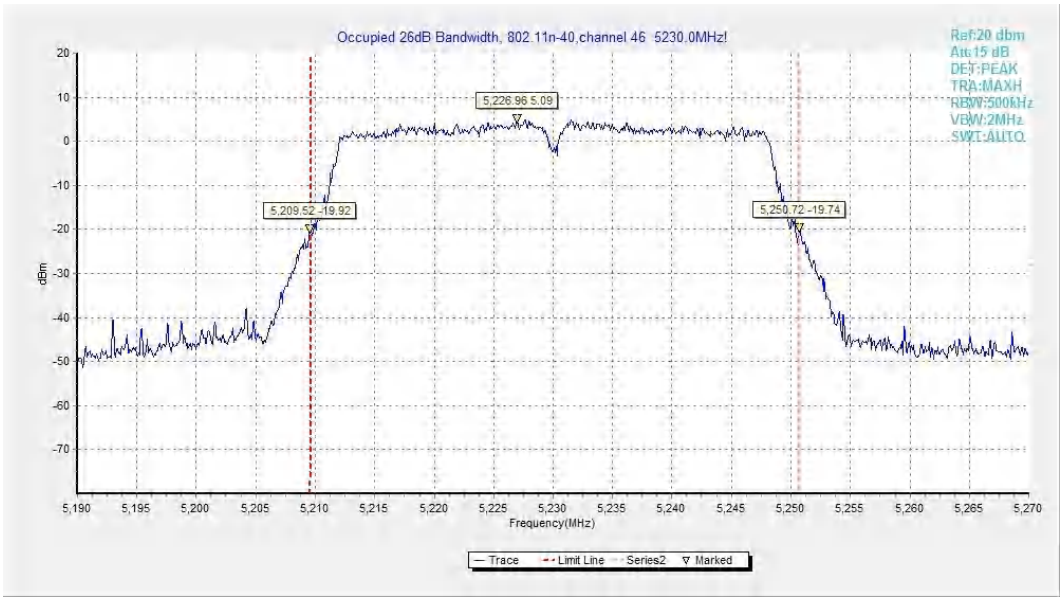


Fig.22 Occupied 26dB Bandwidth (802.11n-HT40, 5230MHz)

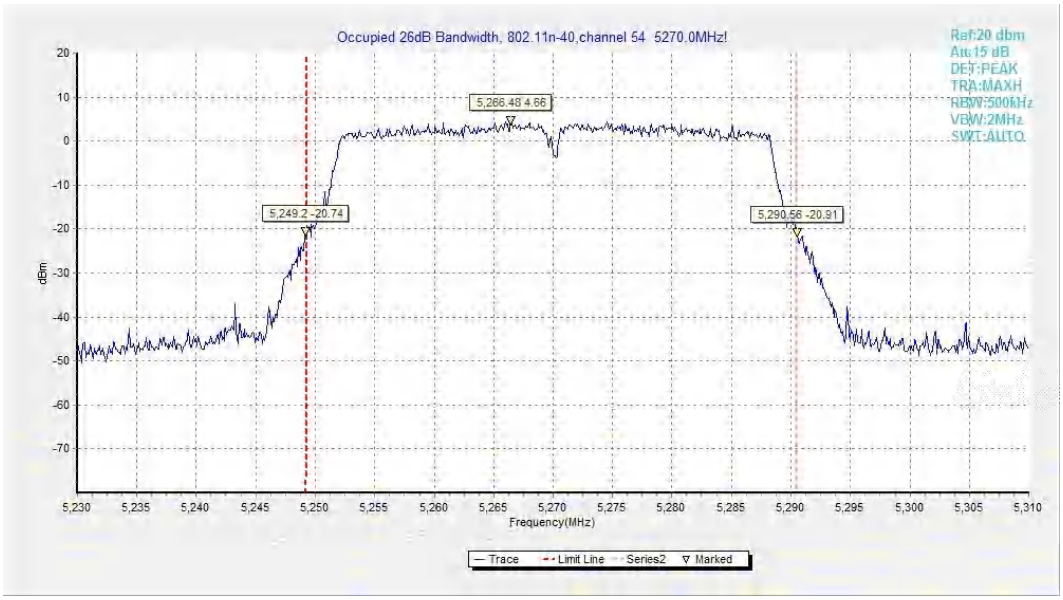


Fig.23 Occupied 26dB Bandwidth (802.11n-HT40, 5270MHz)

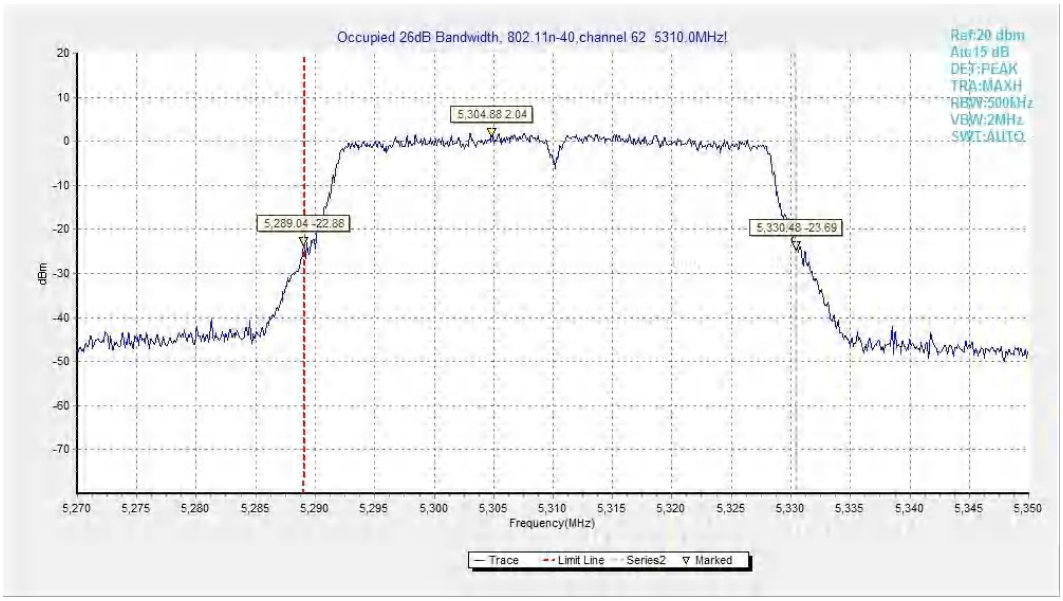


Fig.24 Occupied 26dB Bandwidth (802.11n-HT40, 5310MHz)

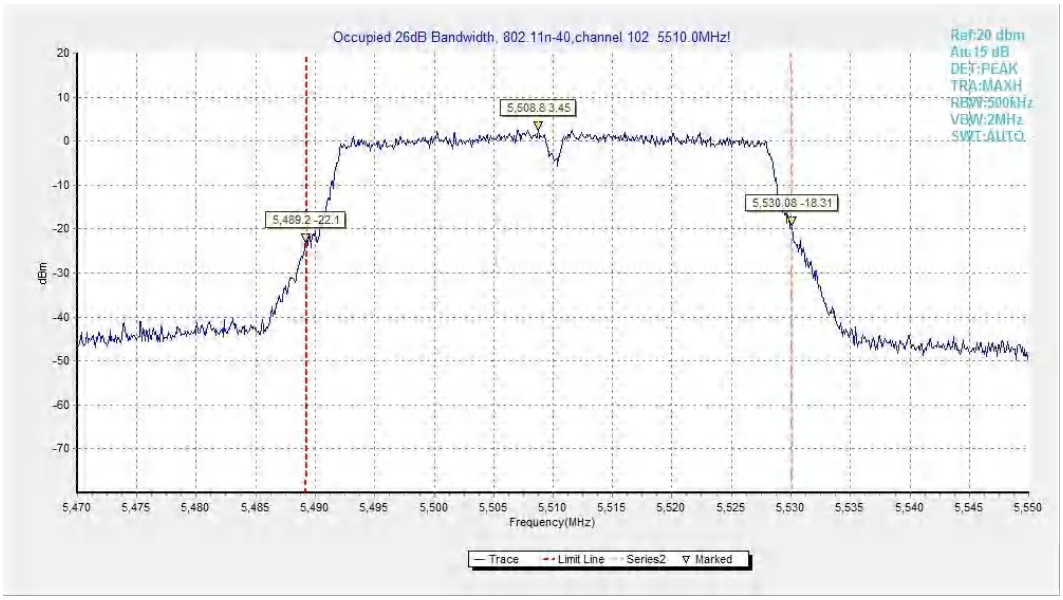


Fig.25 Occupied 26dB Bandwidth (802. 11n-HT40, 5510MHz)

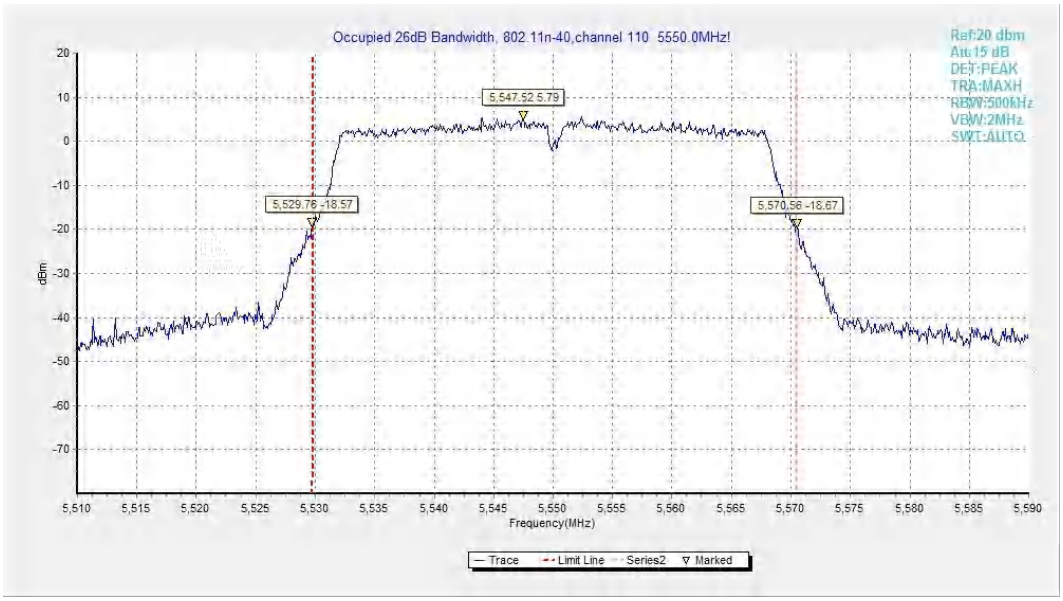


Fig.26 Occupied 26dB Bandwidth (802. 11n-HT40, 5550MHz)

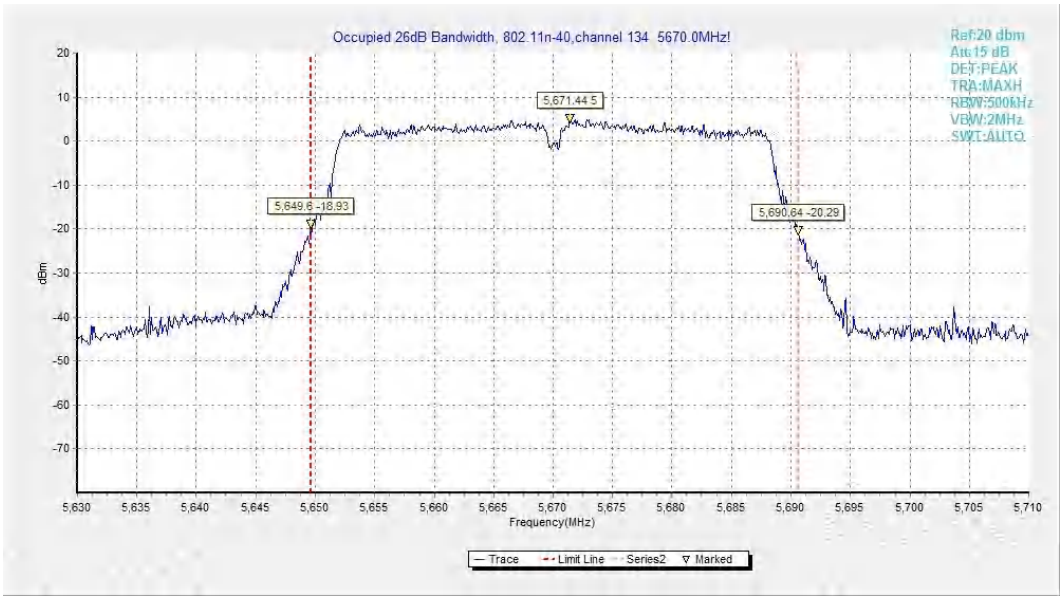


Fig.27 Occupied 26dB Bandwidth (802. 11n-HT40, 5670MHz)

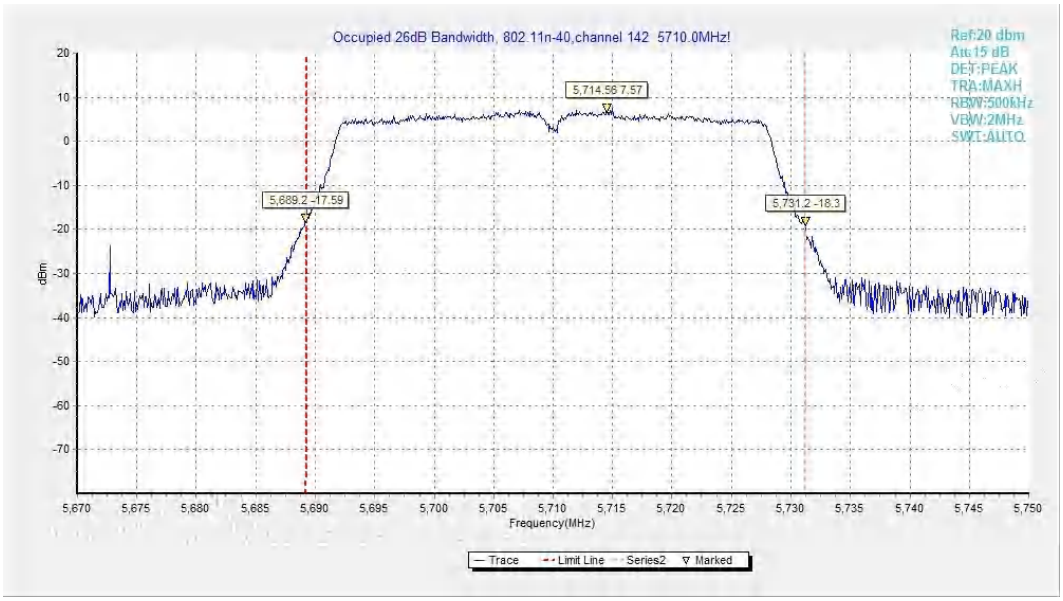


Fig.28 Occupied 26dB Bandwidth (802. 11n-HT40, 5710MHz)

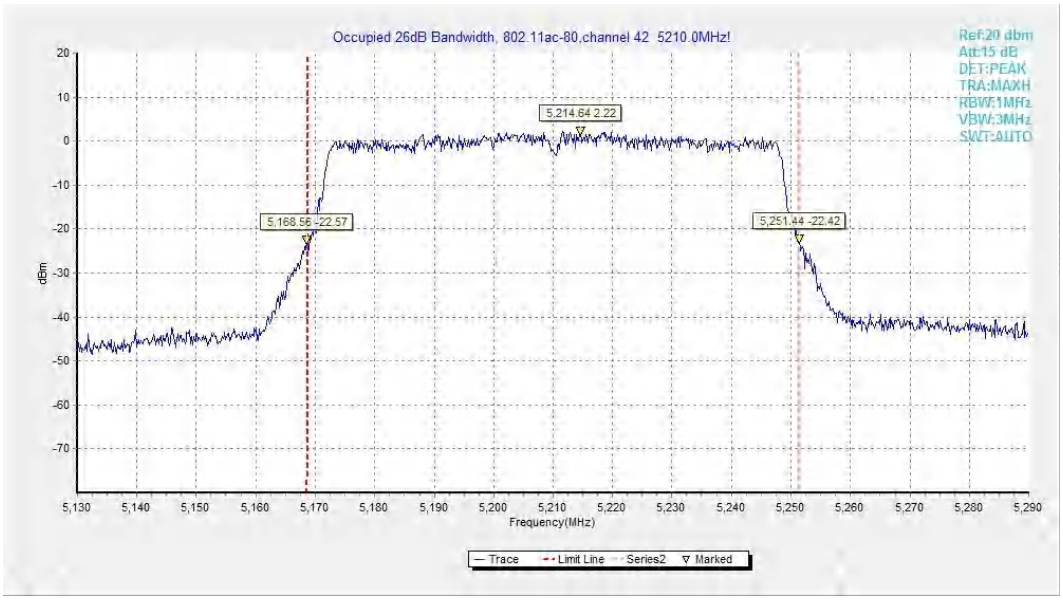


Fig.29 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5210MHz)

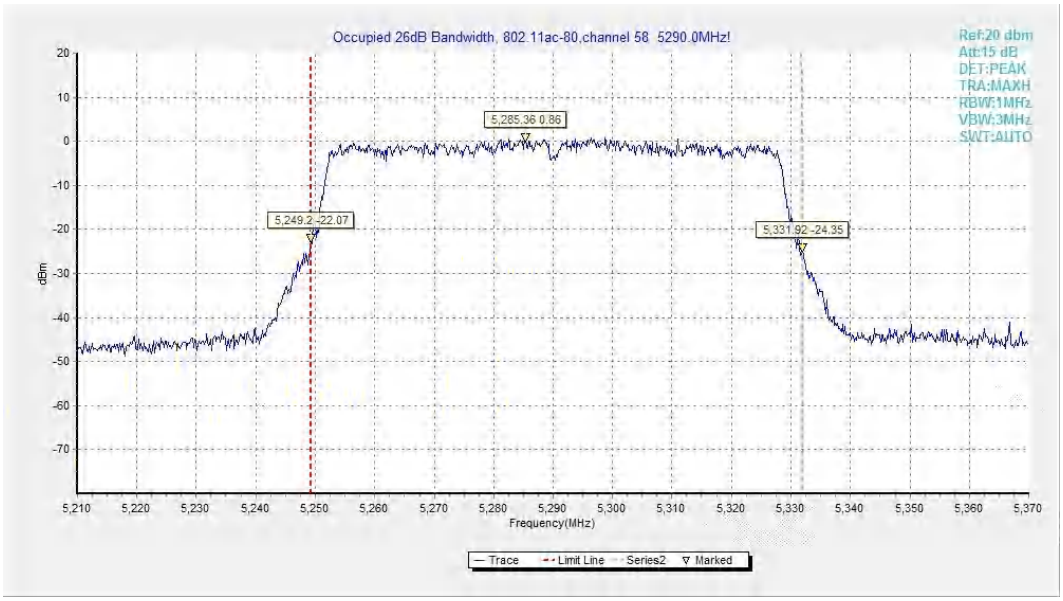


Fig.30 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5290MHz)

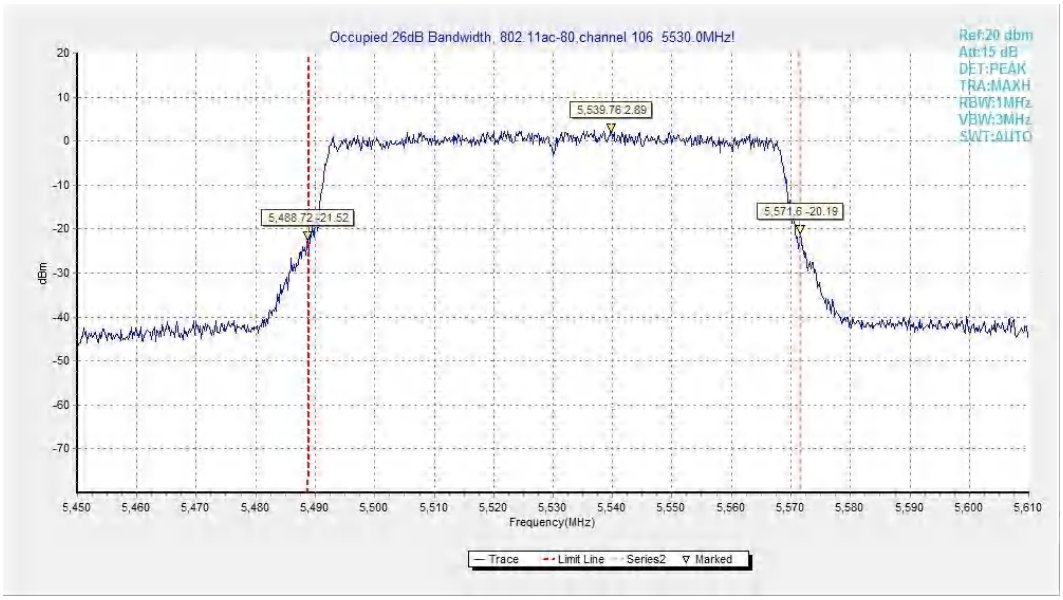


Fig.31 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5530MHz)

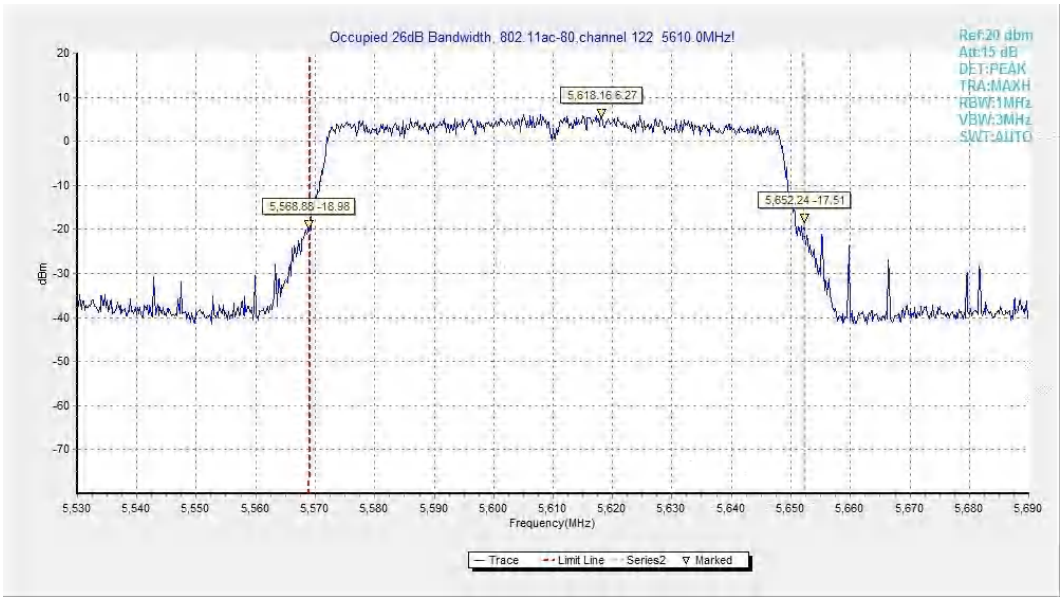


Fig.32 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5610MHz)

Fig.33 Occupied 26dB Bandwidth (802. 11ac-VHT80, 5690MHz)

A.5. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.

b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

d) Step a) through step c) might require iteration to adjust within the specified range.

e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% ofthe total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.

h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz

Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.34	17.36	P
	5200 MHz	Fig.35	17.32	P
	5240 MHz	Fig.36	17.36	P
802.11ac VHT20	5180 MHz	Fig.37	18.44	P
	5200 MHz	Fig.38	18.48	P
	5240 MHz	Fig.39	18.44	P
802.11n HT40	5190 MHz	Fig.40	36.40	P
	5230 MHz	Fig.41	36.32	P
802.11ac VHT80	5210 MHz	Fig.42	75.68	P

Conclusion: PASS

Test graphs as below:

Fig.34 99% Occupied bandwidth (802.11a, 5180MHz)

Fig.35 99% Occupied bandwidth (802.11a, 5200MHz)

Fig.36 99% Occupied bandwidth (802.11a, 5240MHz)

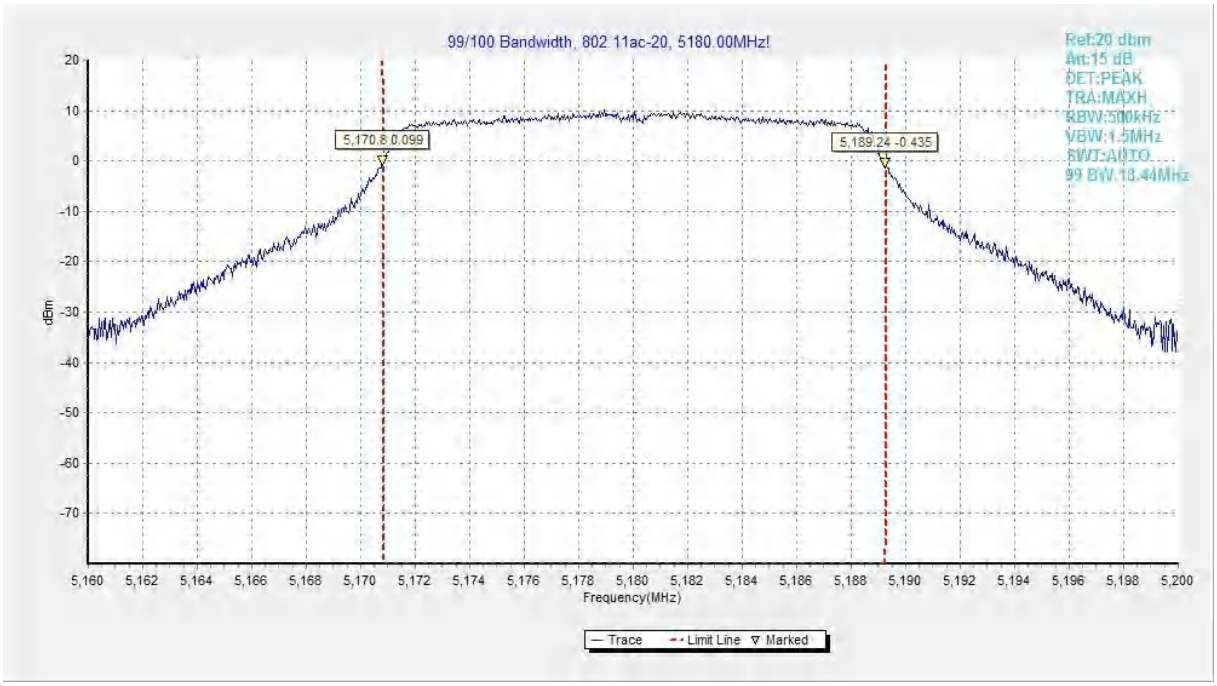


Fig.37 99% Occupied bandwidth (802.11ac-VHT20, 5180MHz)

Fig.38 99% Occupied bandwidth (802.11ac-VHT20, 5200MHz)

Fig.39 99% Occupied bandwidth (802.11ac-VHT20, 5240MHz)

Fig.40 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

Fig.41 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

Fig.42 99% Occupied bandwidth (802.11ac-VHT80, 5210MHz)

A.6. Band Edges Compliance

A6.1 Band Edges - Radiated

Measurement Limit:

Standard	Limit (dB μ V/m)	
FCC 47 CFR Part 15.209	Peak	74
	Average	54

The measurement is made according to KDB 789033

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)).

EUT ID: UT22a + AE2-1 + AE1-3

Measurement Result:

Mode	Frequency	Test Results	Conclusion
802.11a	5180 MHz	Fig.43	P
	5320 MHz	Fig.44	P
	5500 MHz	Fig.45	P
	5700 MHz	Fig.46	P
802.11n HT20	5180 MHz	Fig.47	P
	5320 MHz	Fig.48	P
	5500 MHz	Fig.49	P
	5700 MHz	Fig.50	P
802.11ac HT20	5180 MHz	Fig.51	P
	5320 MHz	Fig.52	P
	5500 MHz	Fig.53	P
	5700 MHz	Fig.54	P
802.11n HT40	5190 MHz	Fig.55	P
	5310 MHz	Fig.56	P
	5510 MHz	Fig.57	P
	5670 MHz	Fig.58	P
802.11ac HT40	5190 MHz	Fig.59	P
	5310 MHz	Fig.60	P
	5510 MHz	Fig.61	P
	5670 MHz	Fig.62	P
802.11ac HT80	5210MHz	Fig.63	P
	5290MHz	Fig.64	P
	5530MHz	Fig.65	P

	5610MHz	Fig.66	P
	5610MHz	Fig.67	P

Mode	Frequency	Test Results	Conclusion
802.11a	5200 MHz	Fig.68	P
	5300 MHz	Fig.69	P
	5520 MHz	Fig.70	P
	5680 MHz	Fig.71	P
802.11n HT20	5200 MHz	Fig.72	P
	5300 MHz	Fig.73	P
	5520 MHz	Fig.74	P
	5680 MHz	Fig.75	P
802.11ac HT20	5200 MHz	Fig.76	P
	5300 MHz	Fig.77	P
	5520 MHz	Fig.78	P
	5680 MHz	Fig.79	P
802.11n HT40	5550 MHz	Fig.80	P
802.11ac HT40	5550 MHz	Fig.81	P

Conclusion: PASS

Test graphs as below:

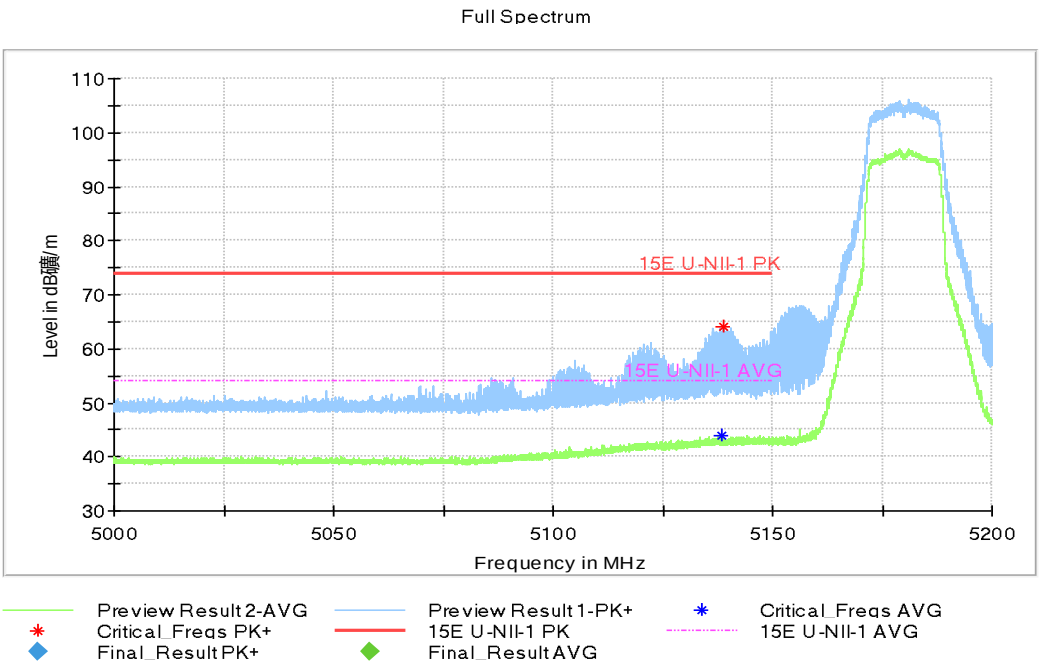


Fig.43 Band Edges (802.11a, CH 36, 5180MHz)

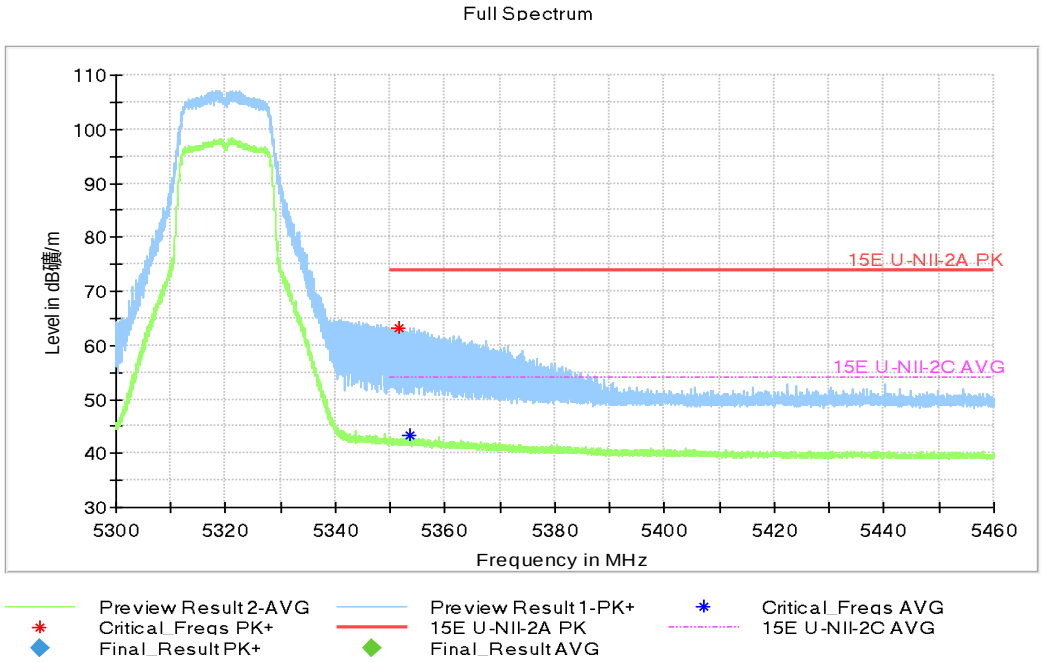


Fig.44 Band Edges (802.11a, CH64, 5320MHz)

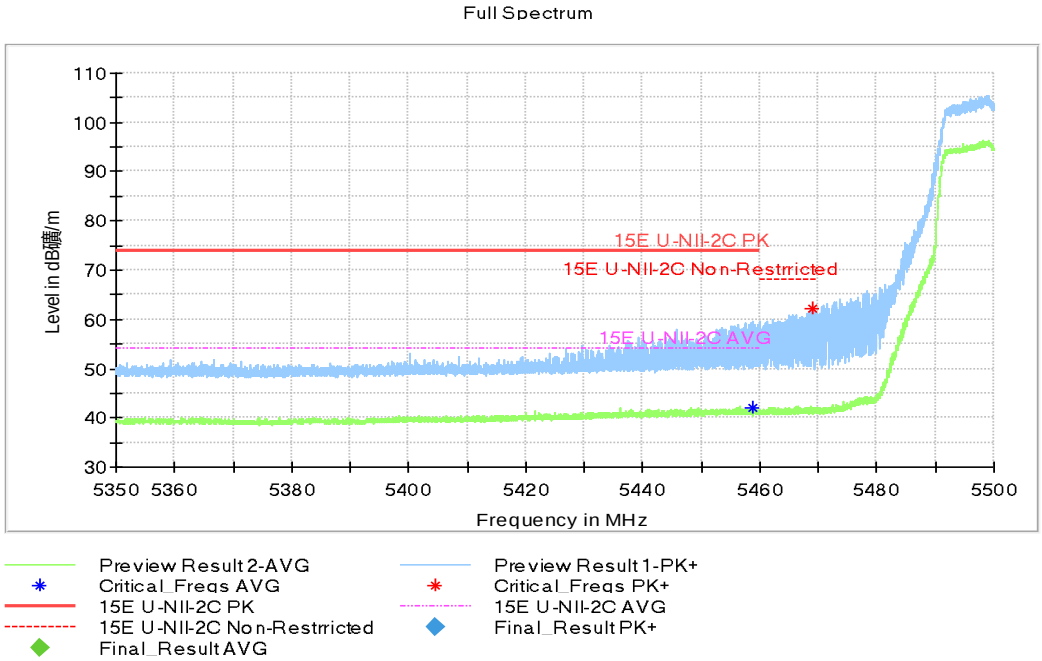


Fig.45 Band Edges (802.11a, CH100, 5500MHz)

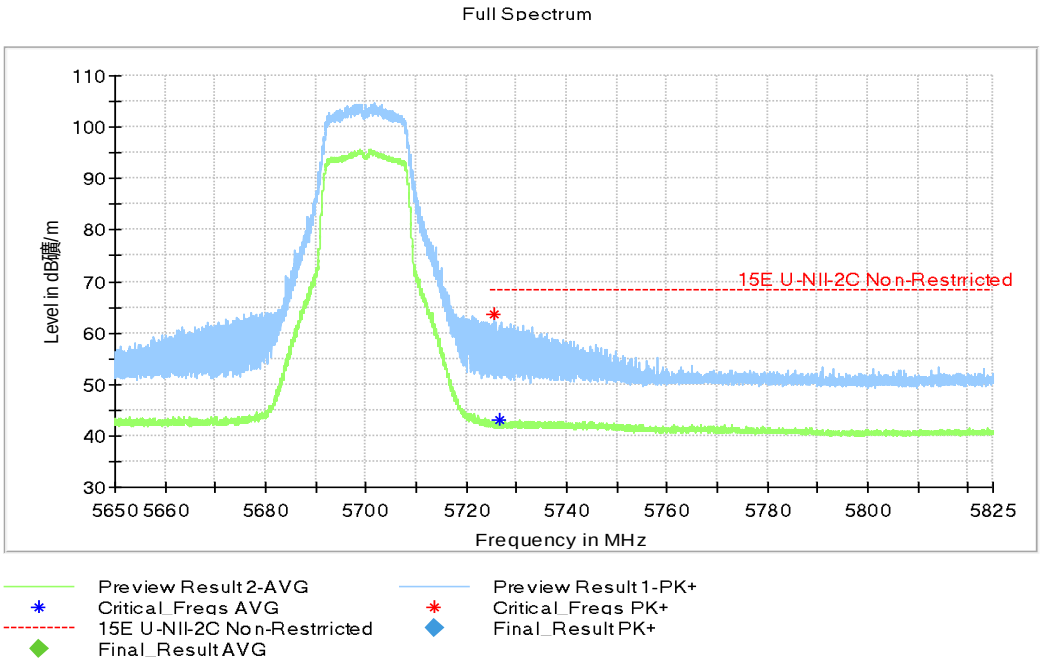


Fig.46 Band Edges (802.11a, CH140, 5700MHz)

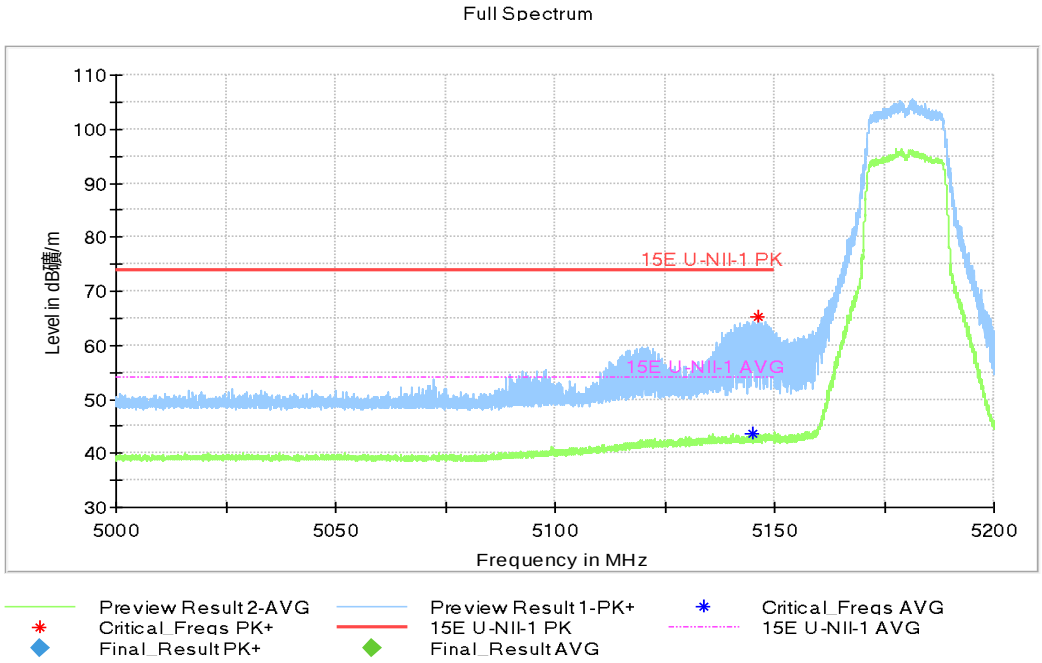


Fig.47 Band Edges (802.11n-HT20, CH36, 5180MHz)

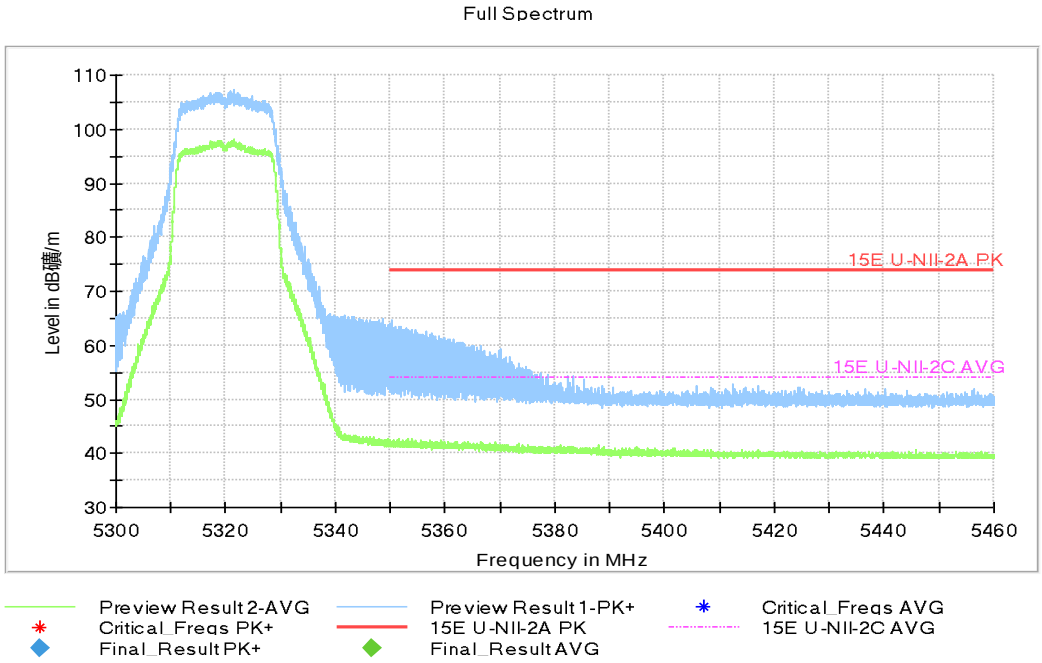


Fig.48 Band Edges (802.11n-HT20, CH64, 5320MHz)

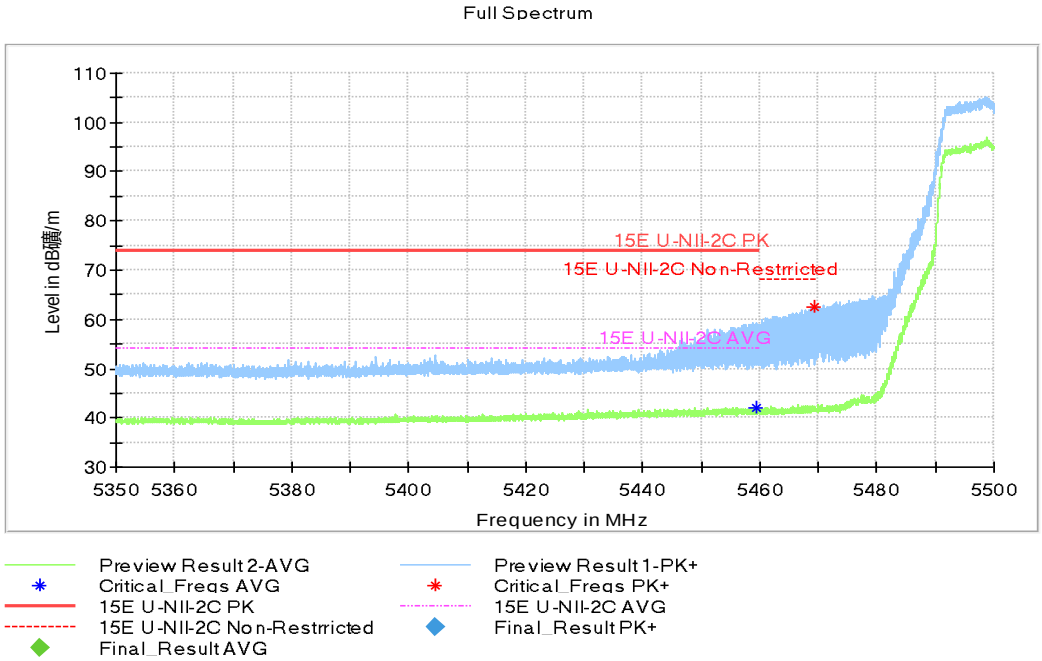


Fig.49 Band Edges (802.11n-HT20, CH100, 5500MHz)

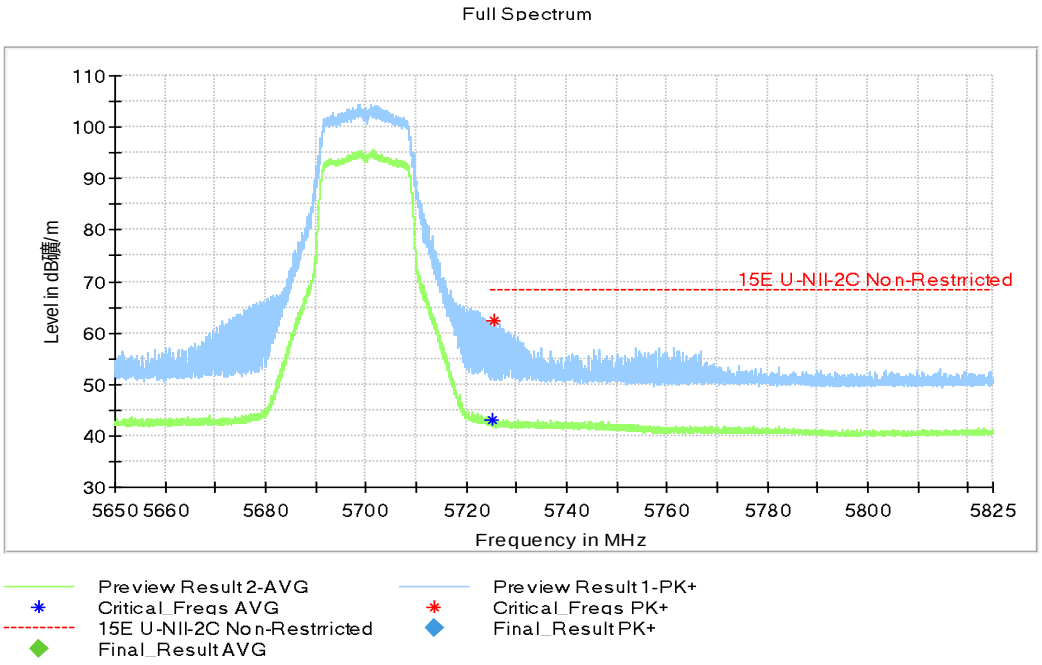


Fig.50 Band Edges (802.11n-HT20, CH140, 5700MHz)

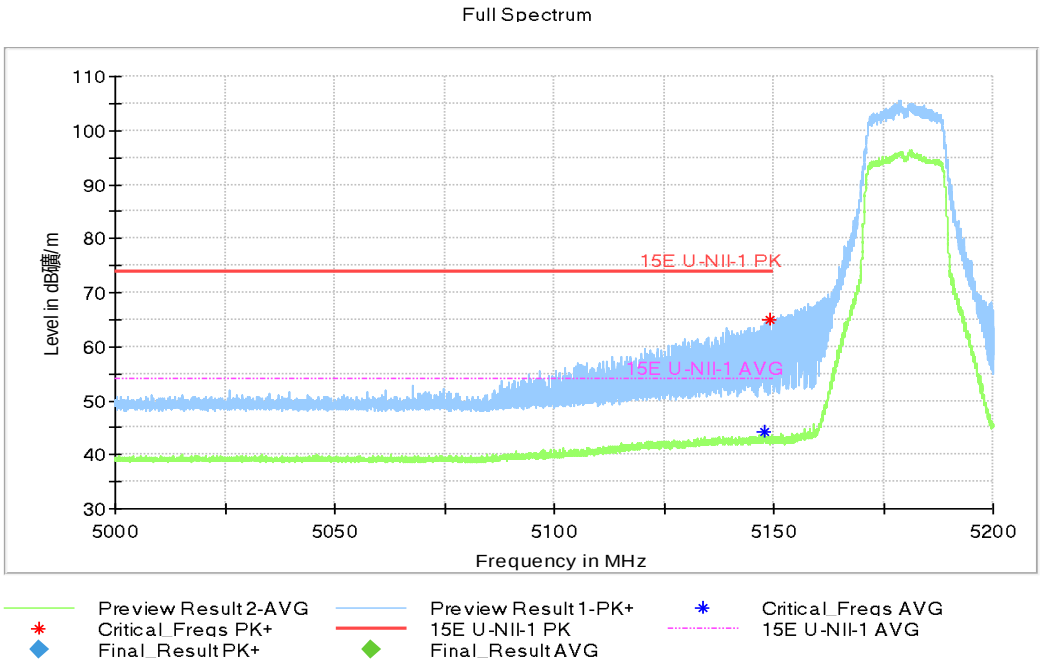


Fig.51 Band Edges (802.11ac-HT20, CH36, 5180MHz)

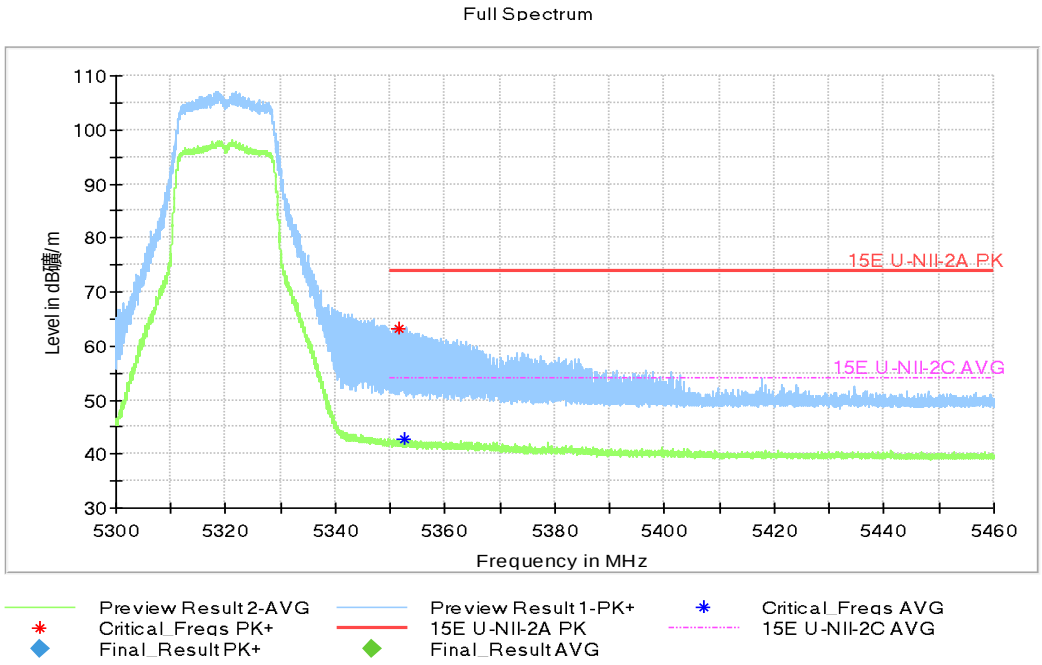


Fig.52 Band Edges (802.11ac-HT20, CH64, 5320MHz)

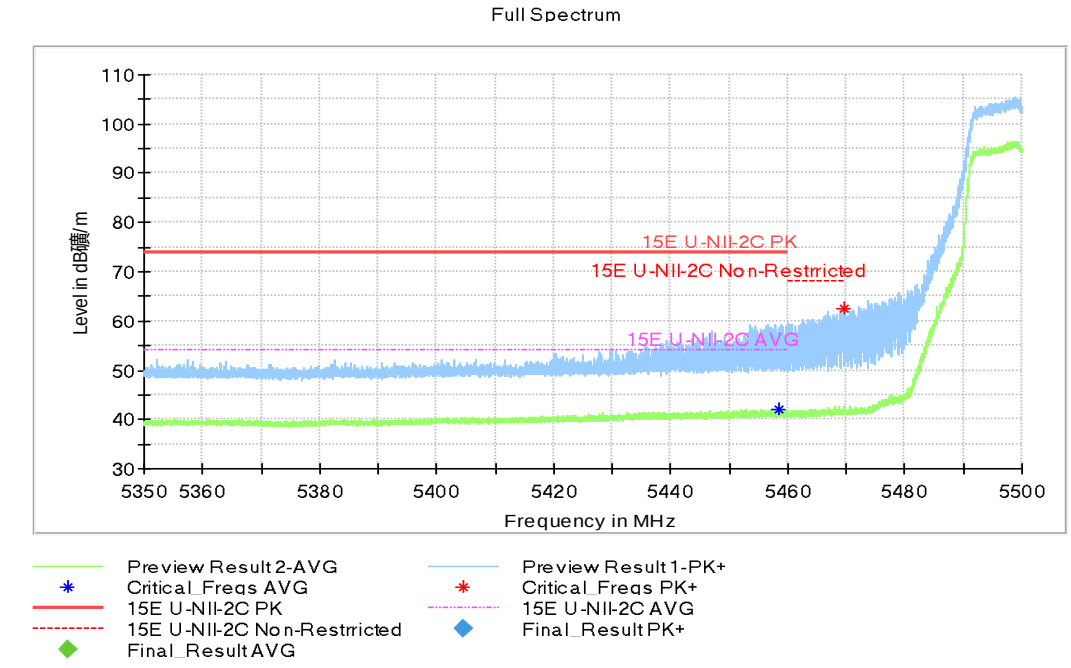


Fig.53 Band Edges (802.11ac-HT20, CH100, 5500MHz)

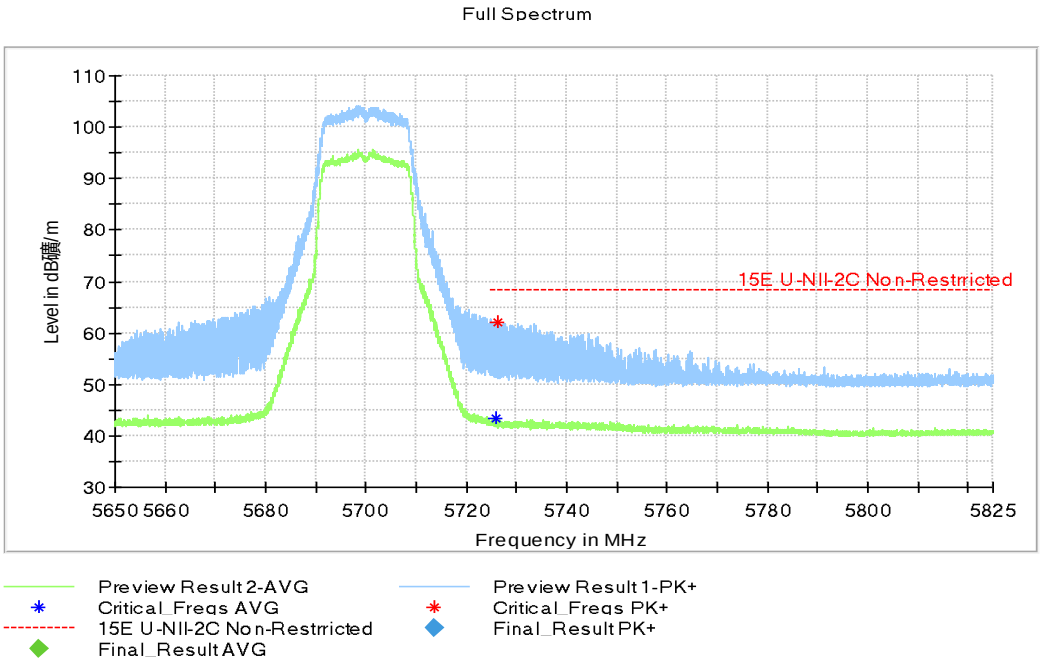


Fig.54 Band Edges (802.11ac-HT20, CH140, 5700MHz)

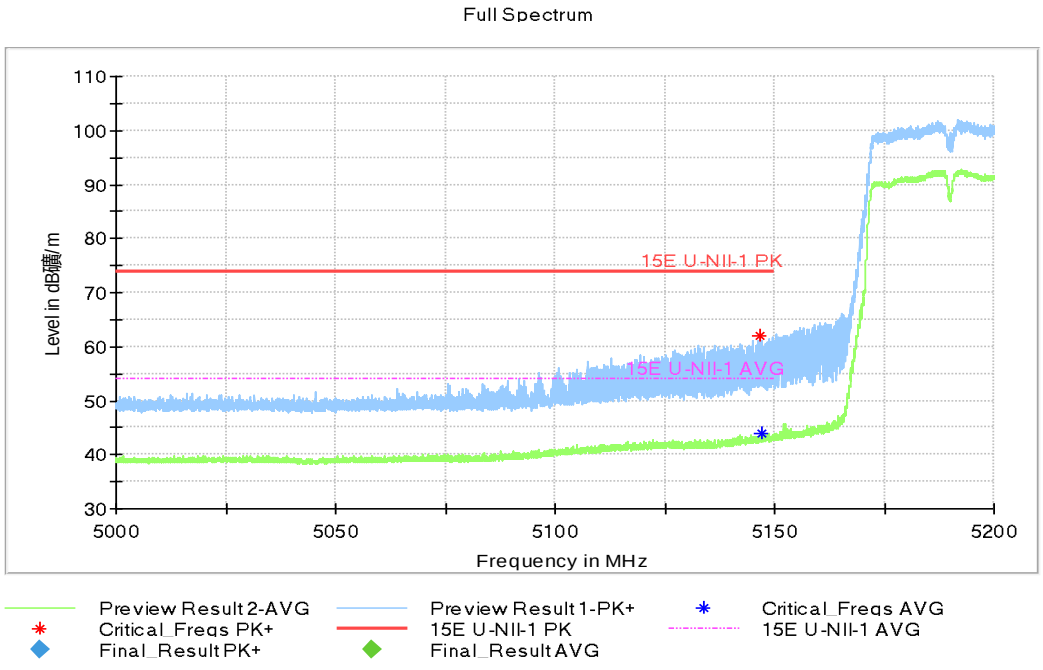


Fig.55 Band Edges (802.11n-HT40, CH38, 5190MHz)

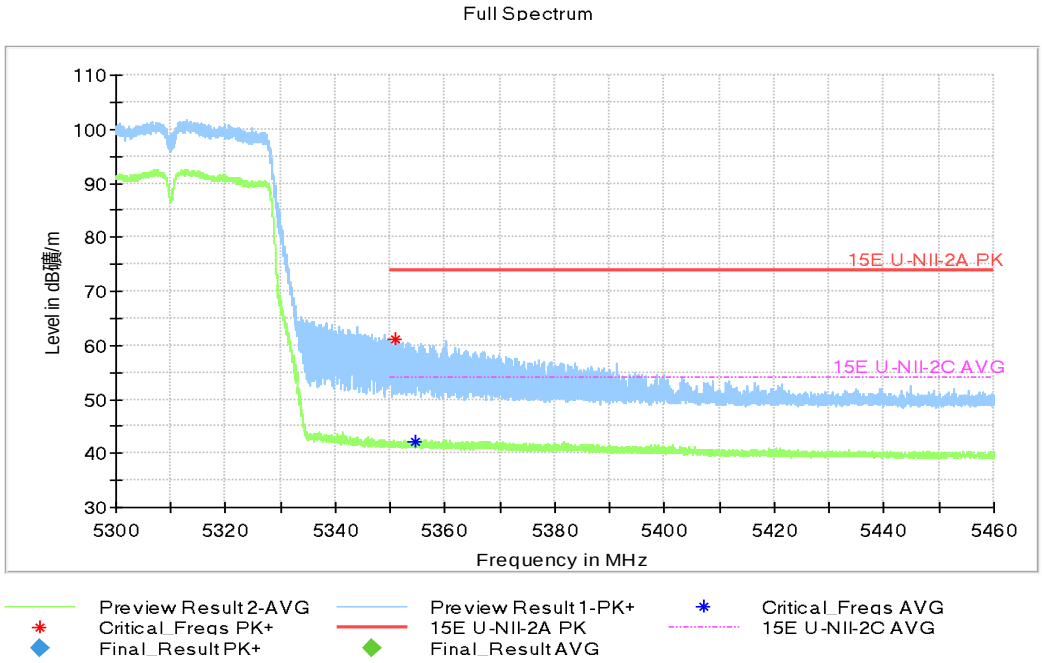


Fig.56 Band Edges (802.11n-HT40, CH62, 5310MHz)

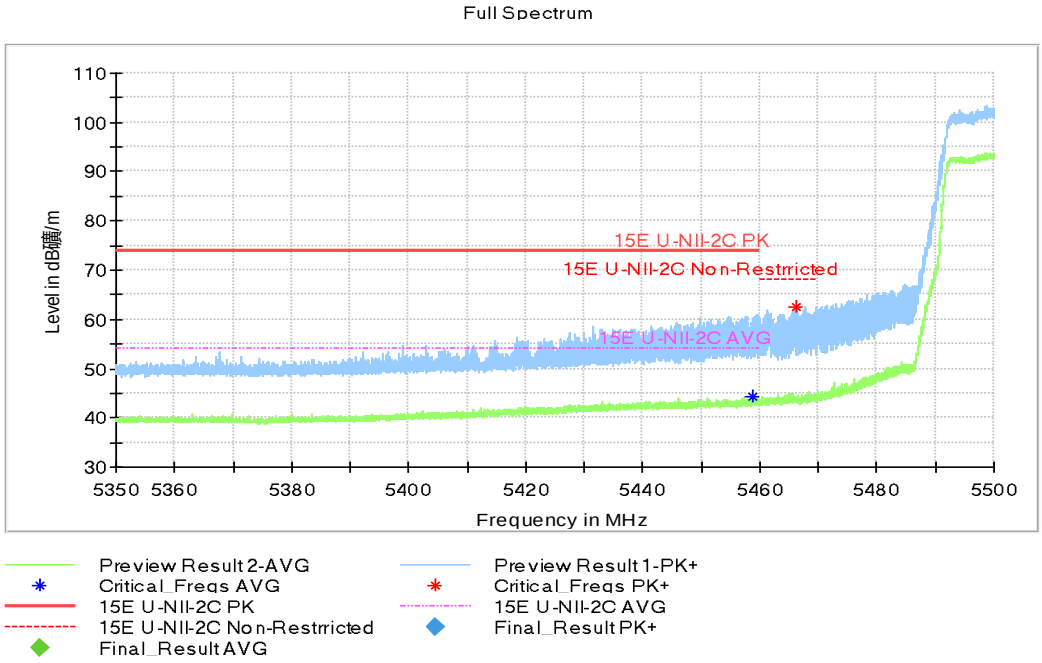


Fig.57 Band Edges (802.11n-HT40, CH102, 5510MHz)

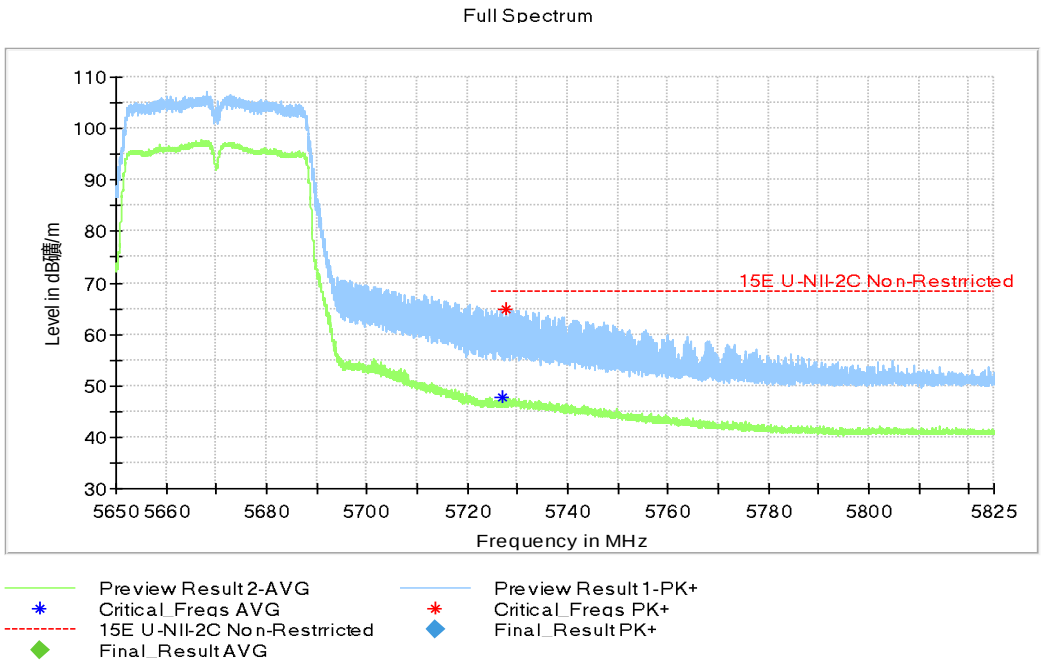


Fig.58 Band Edges (802.11n-HT40, CH134, 5670MHz)

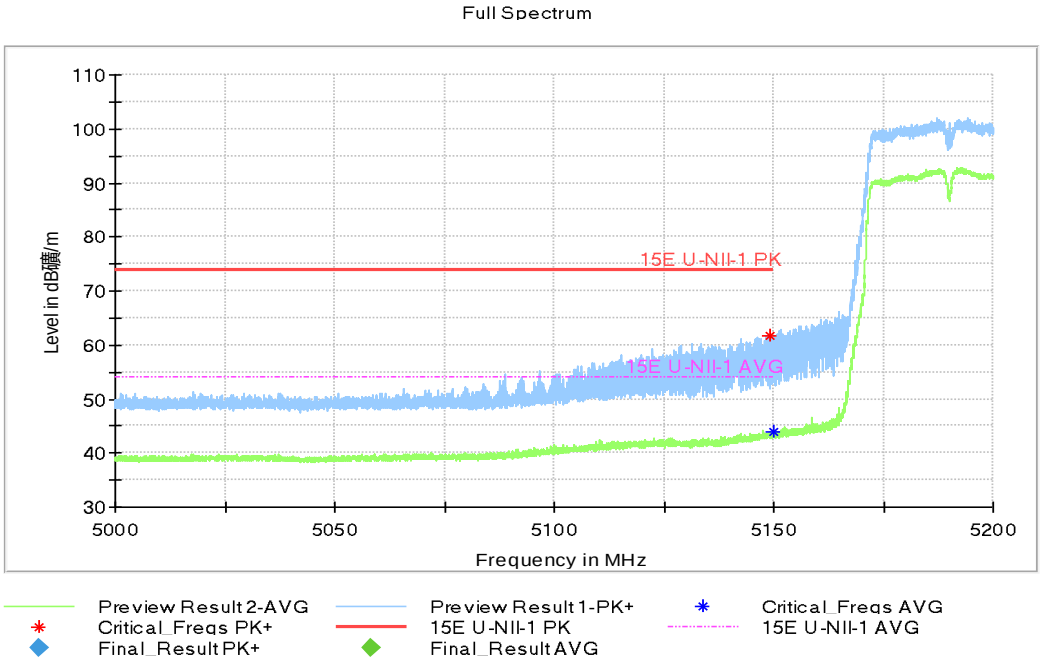


Fig.59 Band Edges (802.11ac-HT40, CH38, 5190MHz)

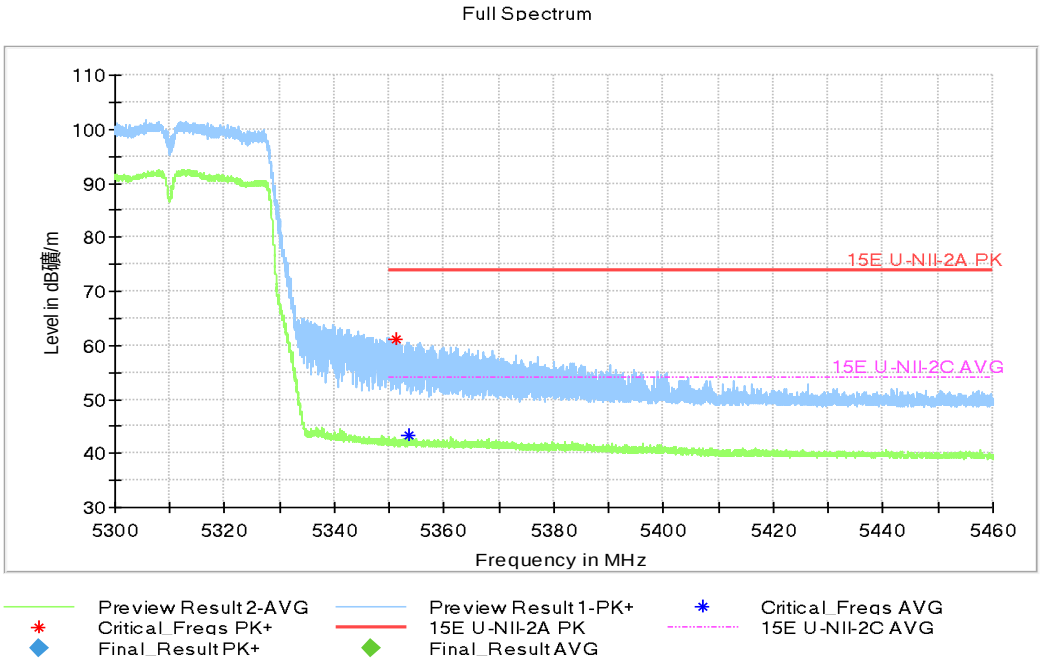


Fig.60 Band Edges (802.11ac-HT40, CH62, 5310MHz)

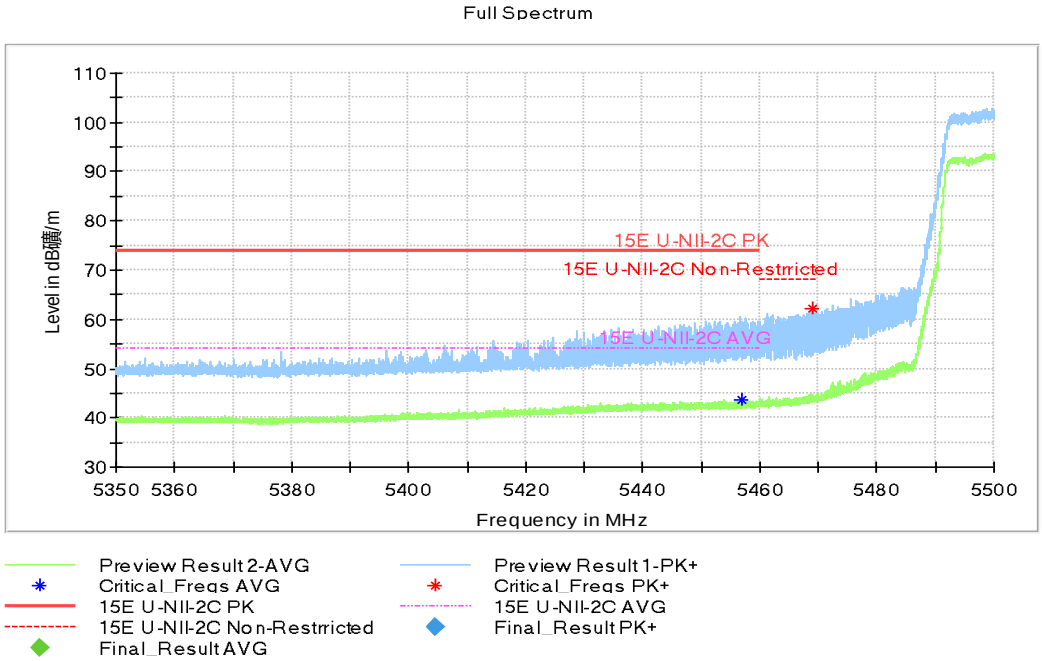


Fig.61 Band Edges (802.11ac-HT40, CH102, 5510MHz)

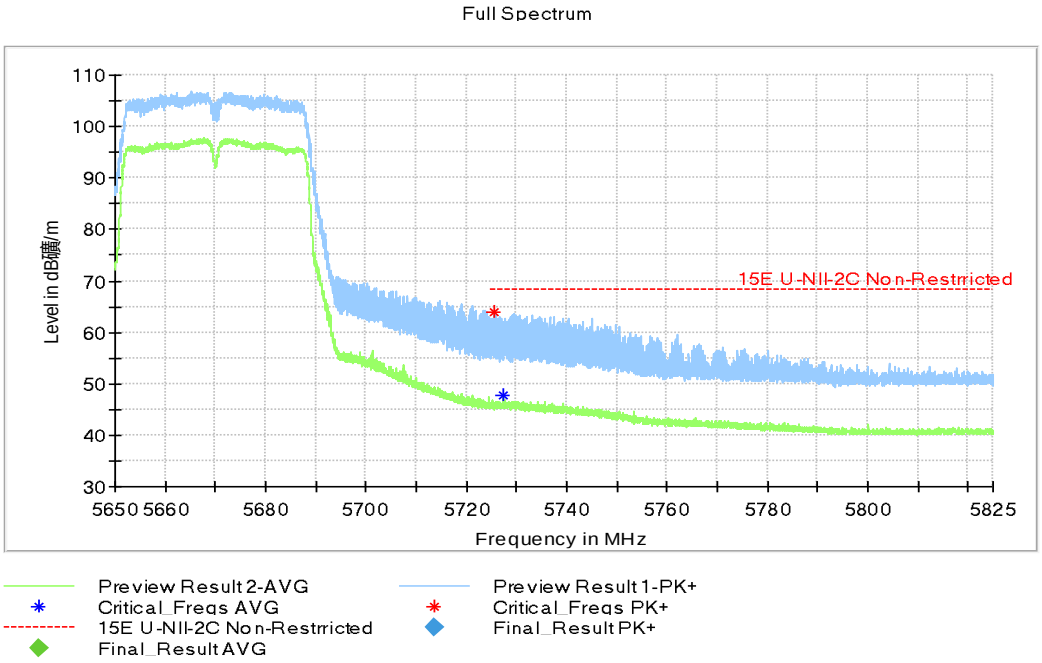


Fig.62 Band Edges (802.11ac-HT40, CH134, 5670MHz)

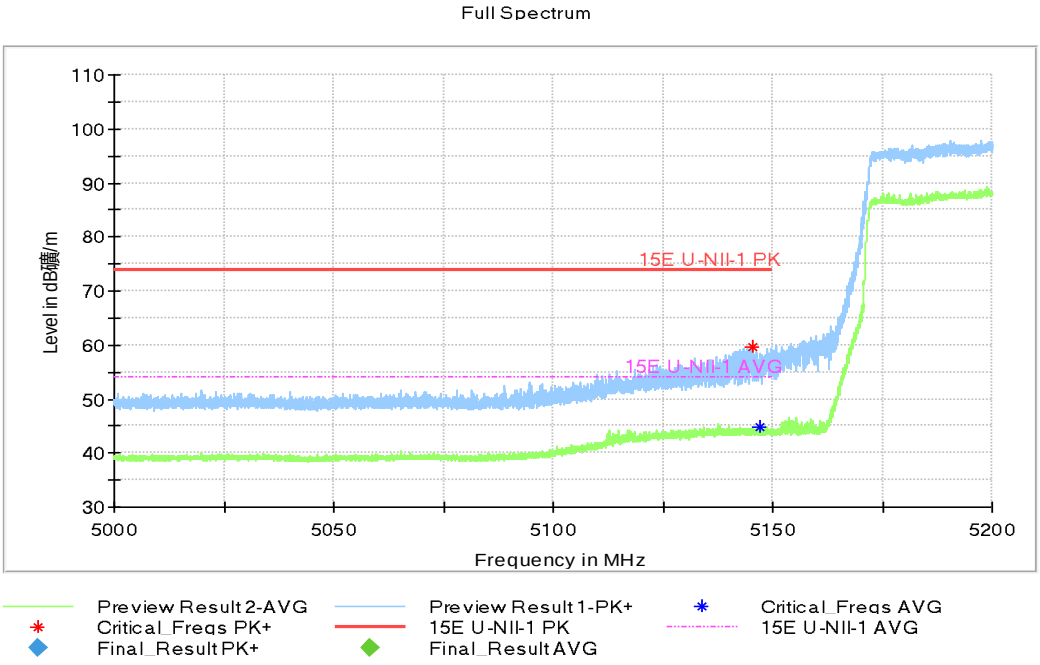


Fig.63 Band Edges (802.11ac-HT80, CH42, 5210MHz)

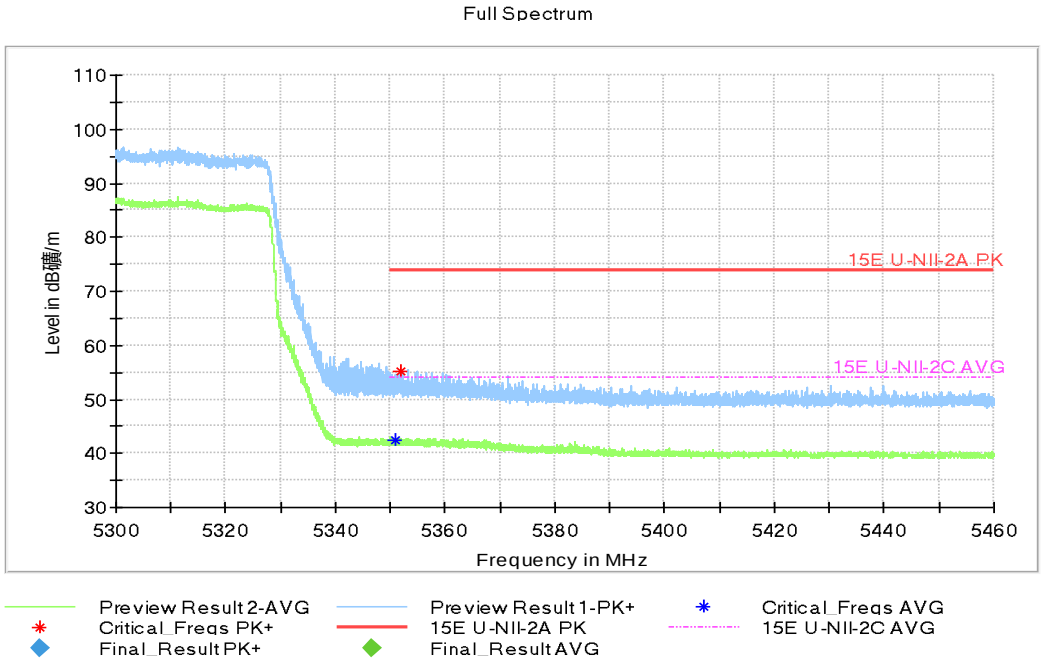


Fig.64 Band Edges (802.11ac-HT80, CH58, 5290MHz)

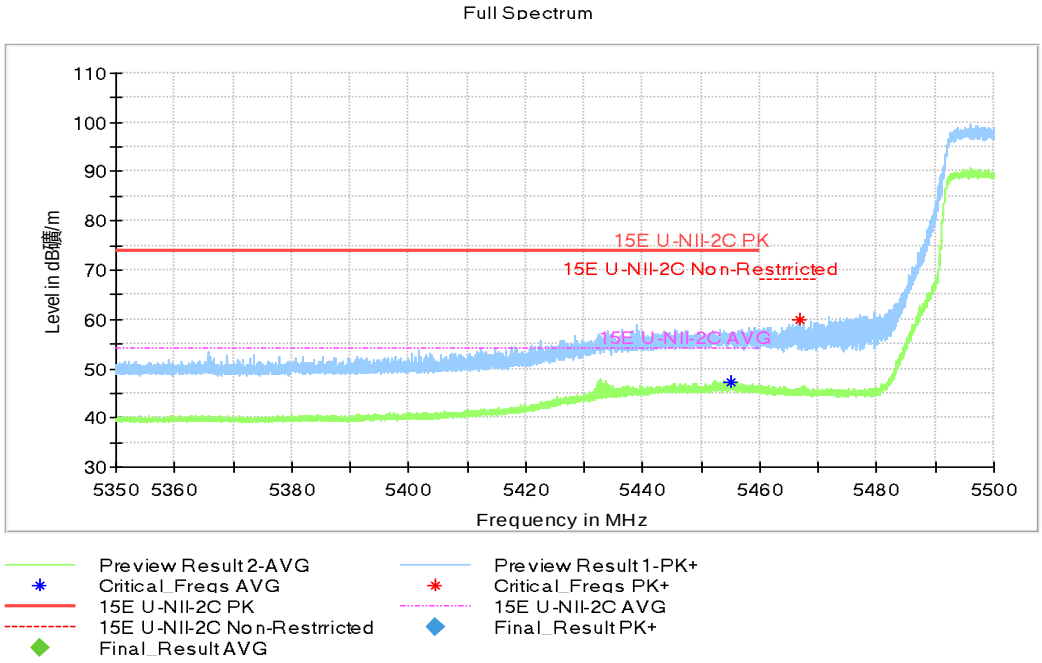


Fig.65 Band Edges (802.11ac-HT80, CH106, 5530MHz)

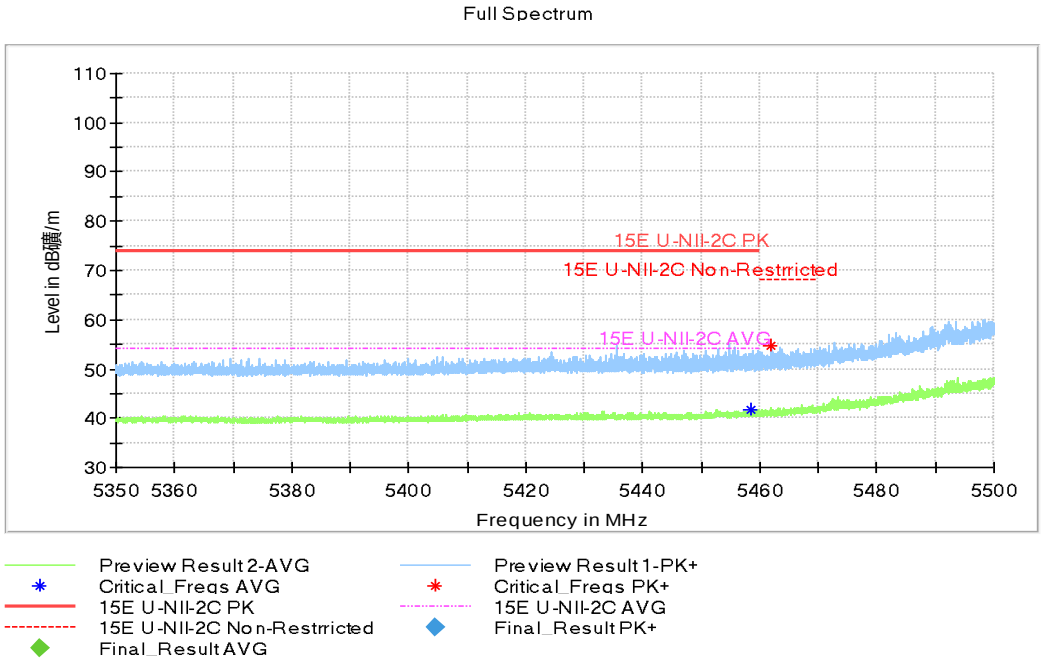


Fig.66 Band Edges (802.11ac-HT80, CH122, 5610MHz, L)

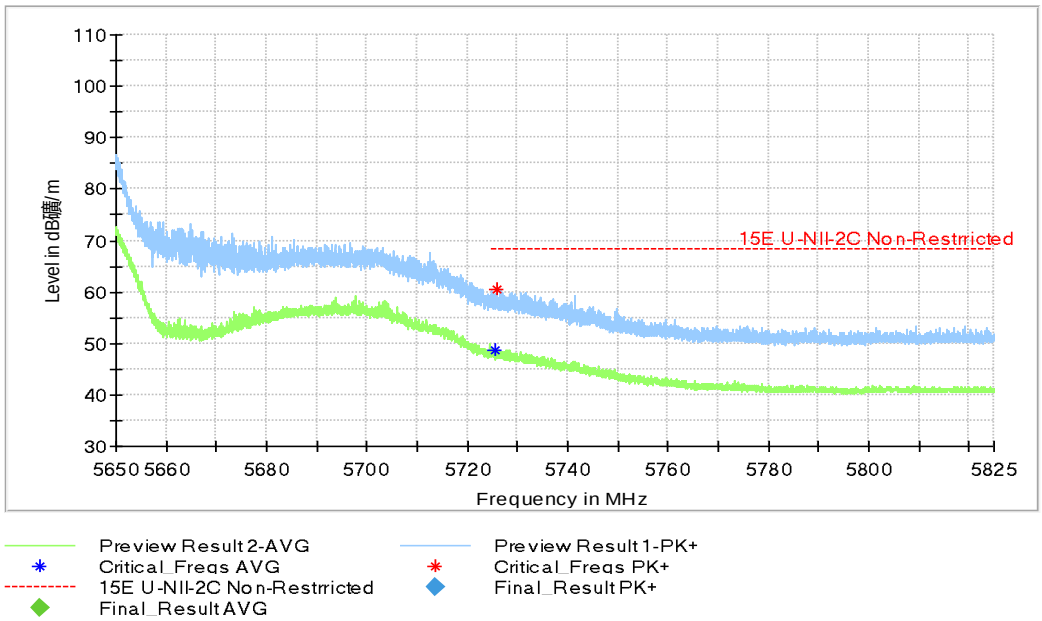


Fig.67 Band Edges (802.11ac-HT80, CH122, 5610MHz, R)

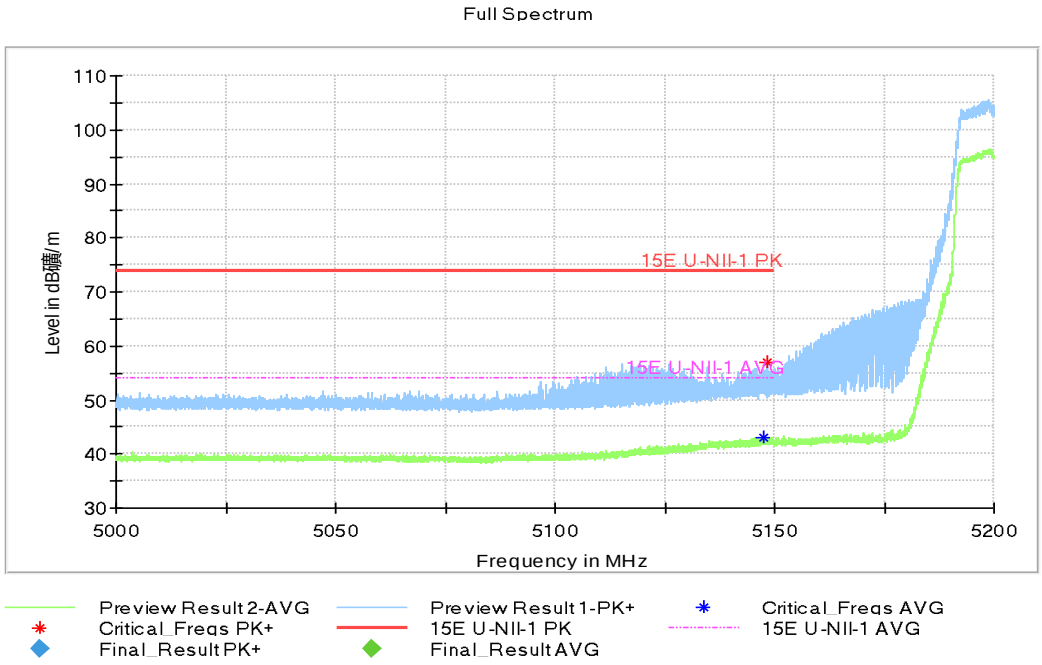


Fig.68 Band Edges (802.11a, CH40, 5200MHz)

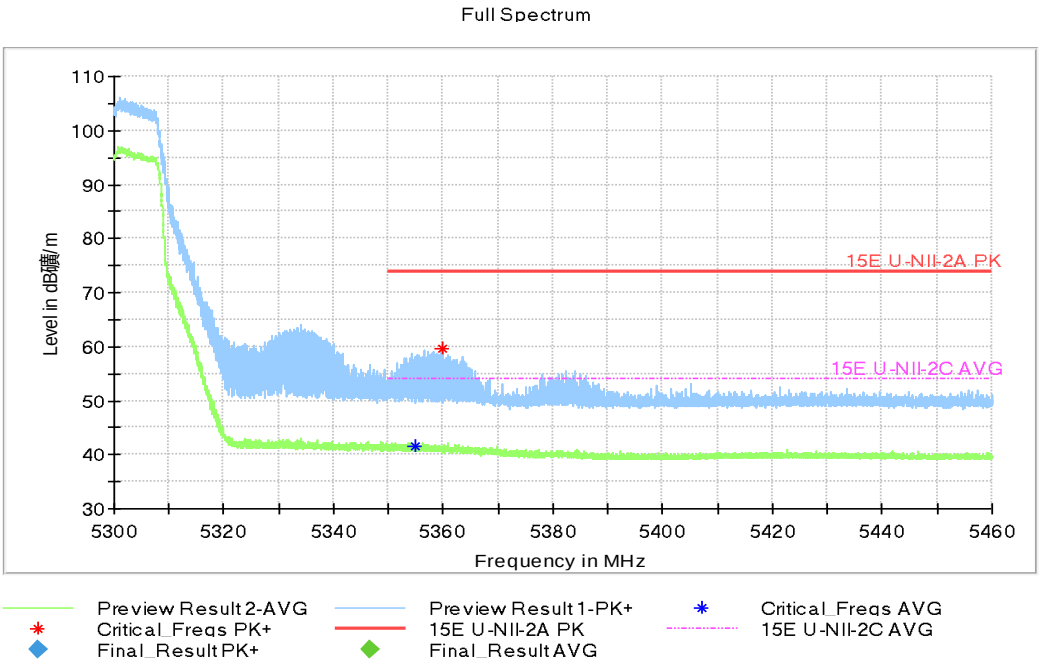


Fig.69 Band Edges (802.11a, CH60, 5300MHz)

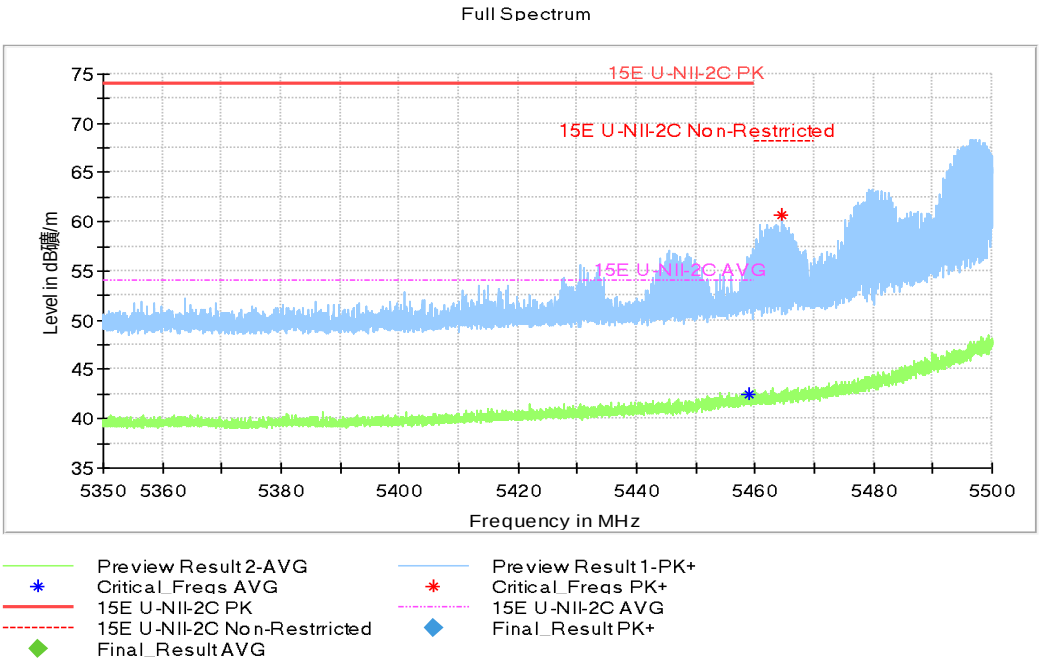


Fig.70 Band Edges (802.11a, CH104, 5520MHz)

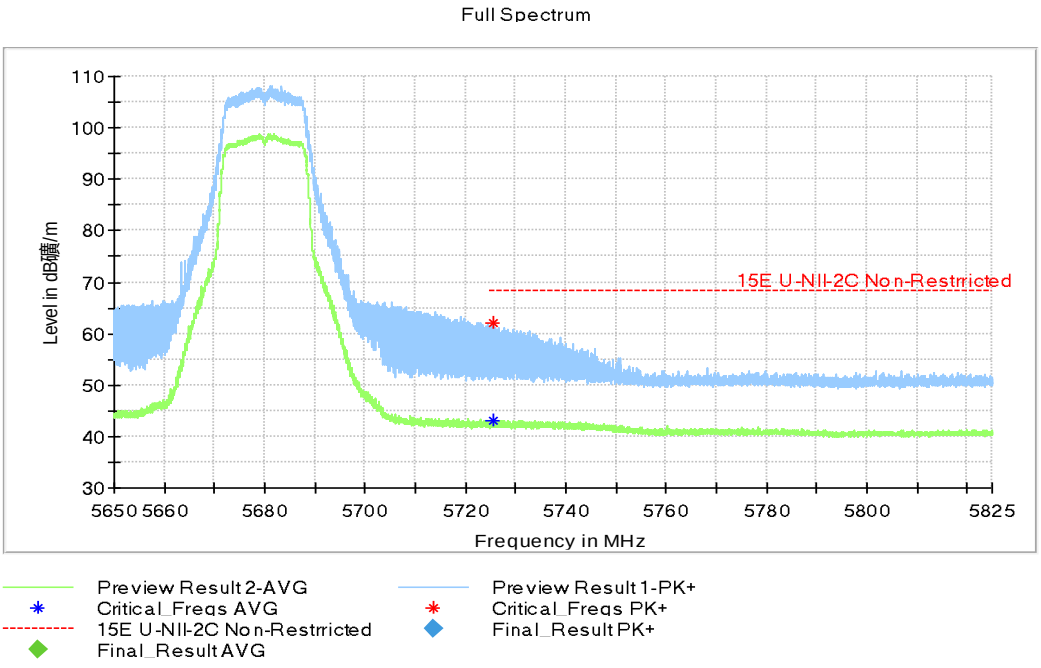


Fig.71 Band Edges (802.11a, CH136, 5680MHz)

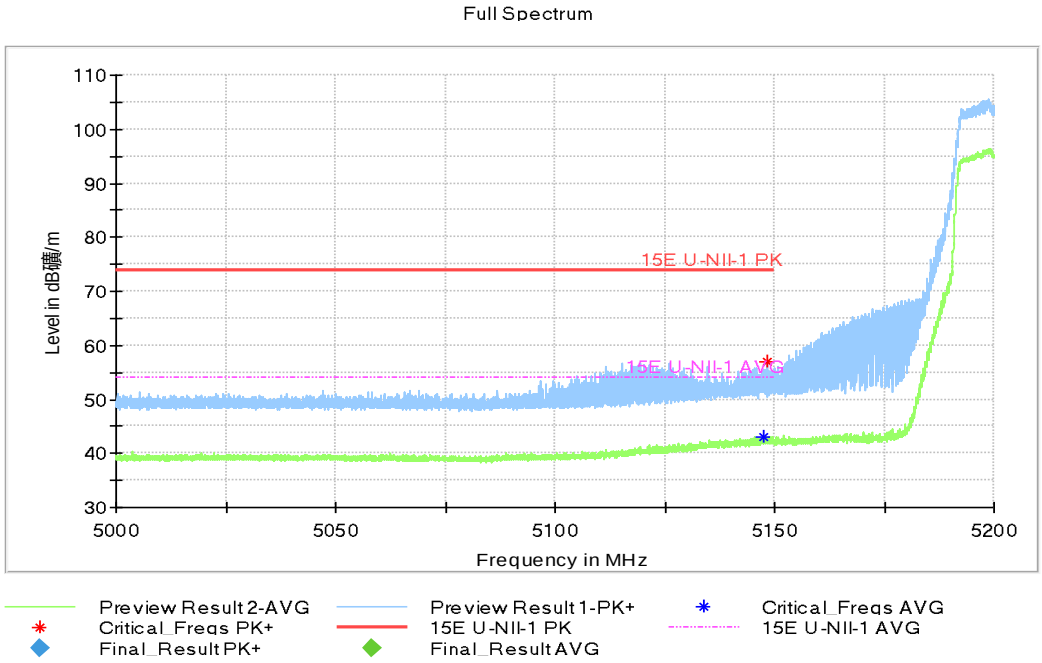


Fig.72 Band Edges (802.11n 20MHz, CH40, 5200MHz)

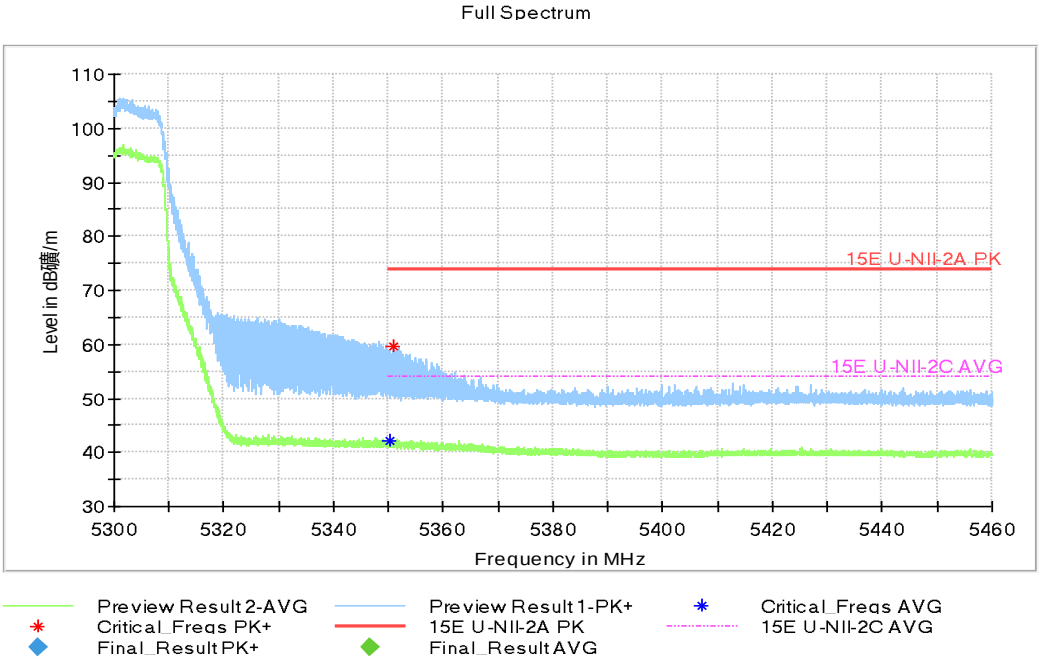


Fig.73 Band Edges (802.11n 20M, CH60, 5300MHz)

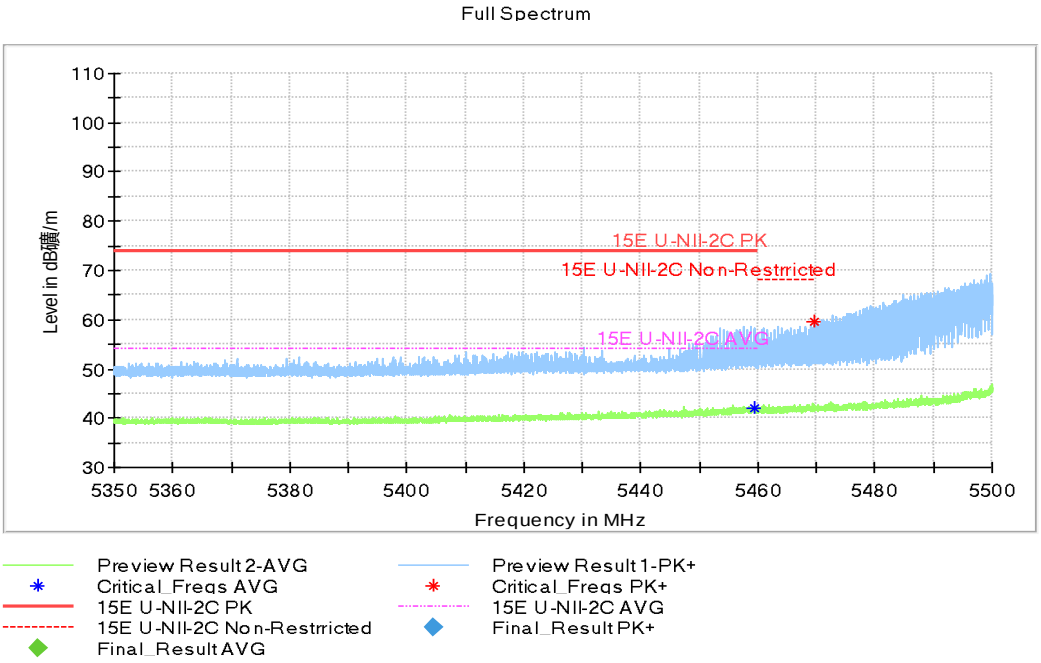


Fig.74 Band Edges (802.11n 20MHz, CH104, 5520MHz)

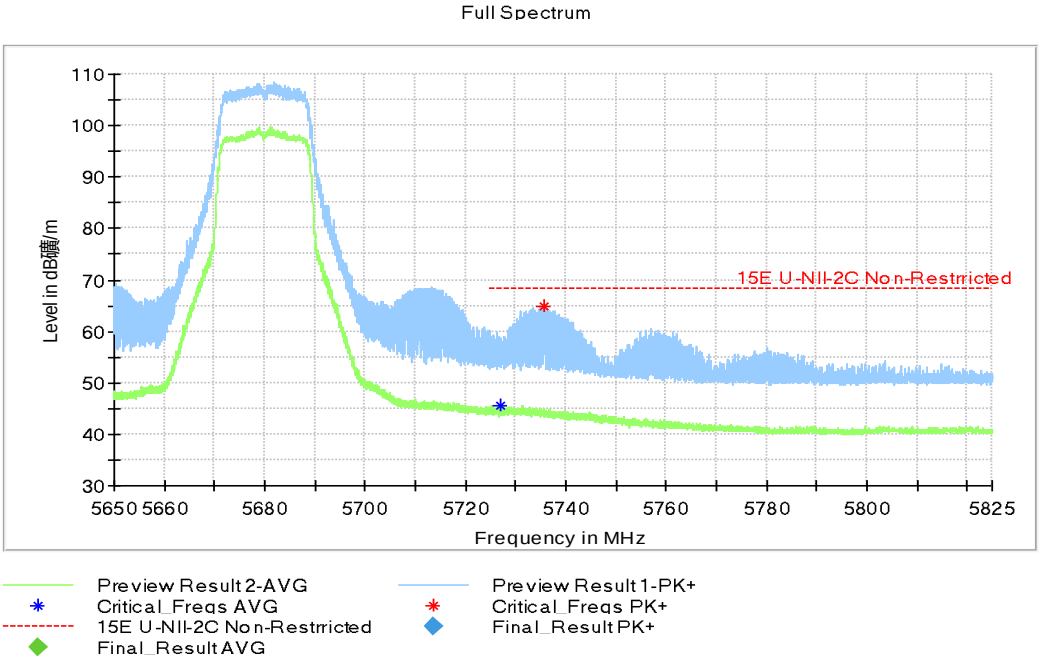


Fig.75 Band Edges (802.11n 20MHz, CH136, 5680MHz)

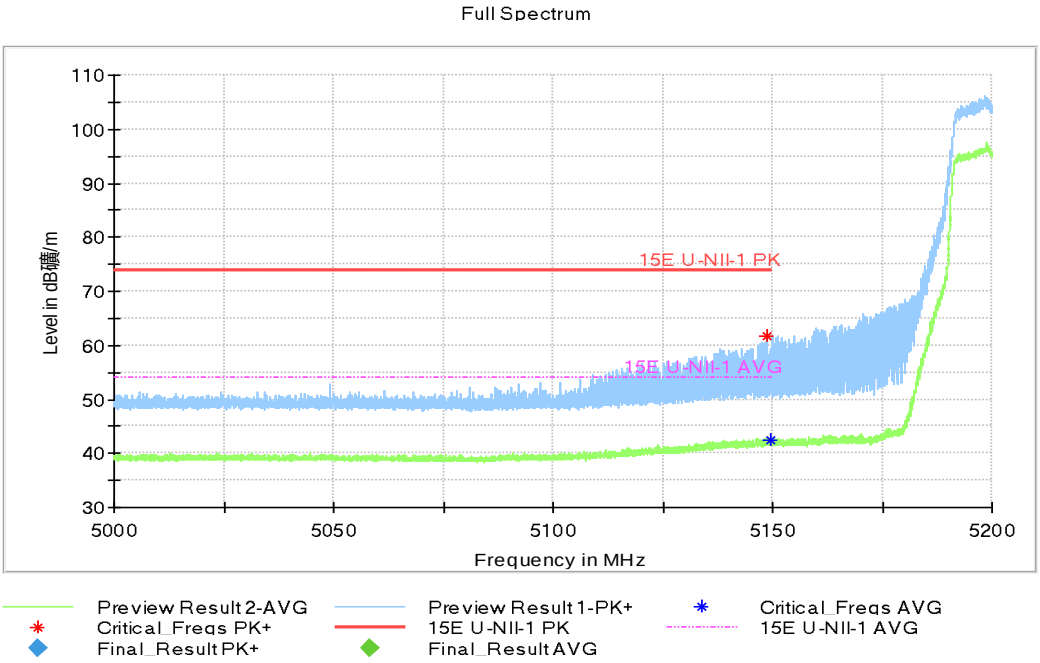


Fig.76 Band Edges (802.11ac 20MHz, CH40, 5200MHz)

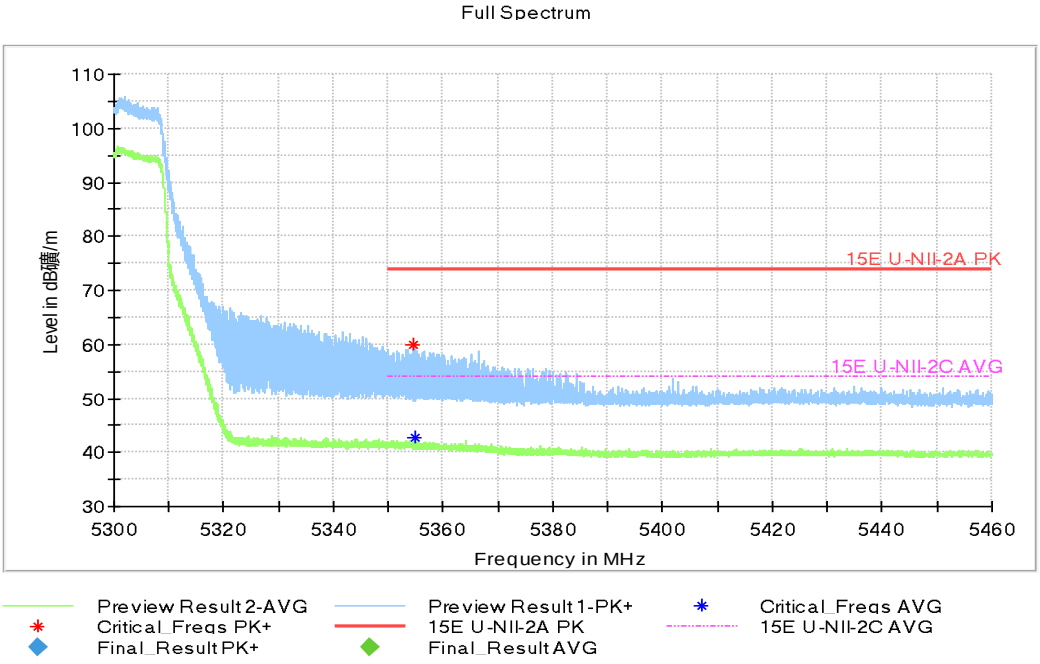


Fig.77 Band Edges (802.11ac 20MHz, CH60, 5300MHz)

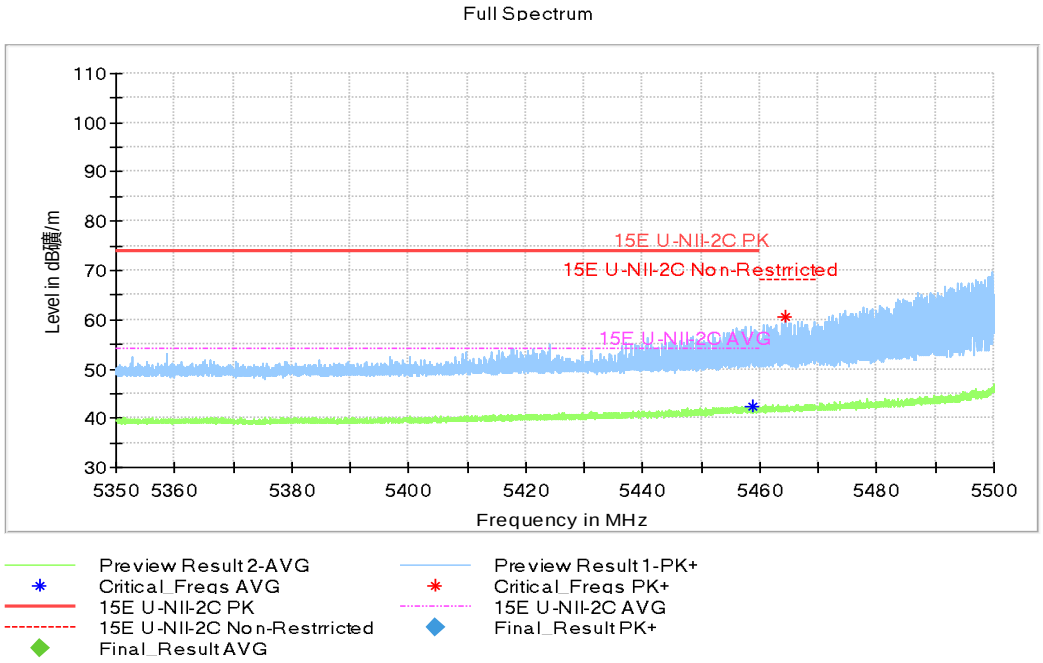


Fig.78 Band Edges (802.11ac 20MHz, CH104, 5520MHz)

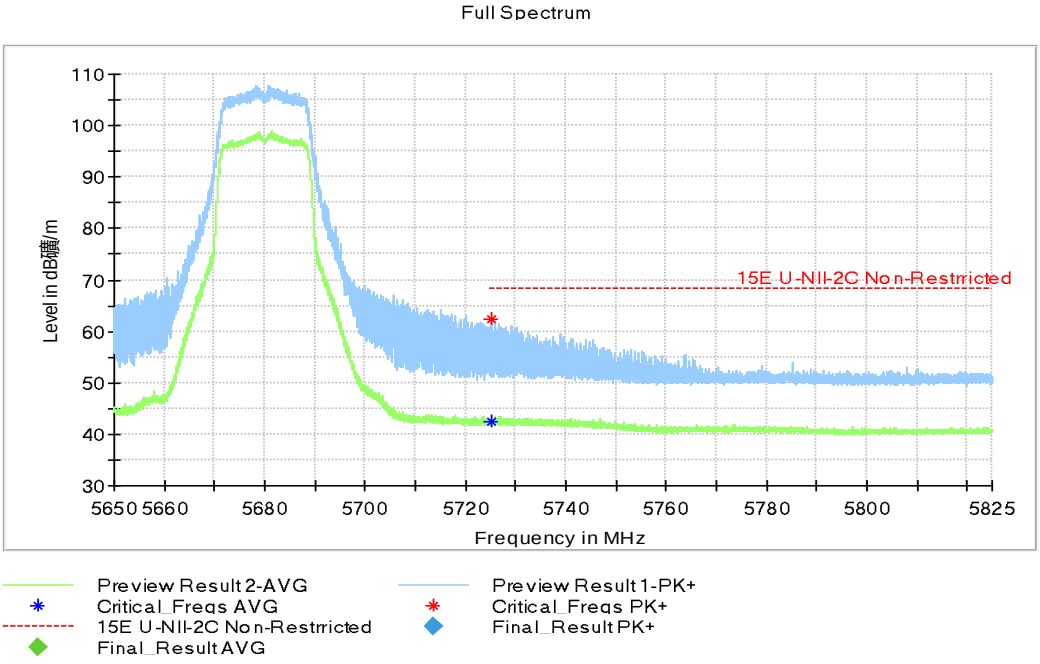


Fig.79 Band Edges (802.11ac 20MHz, CH136, 5680MHz)

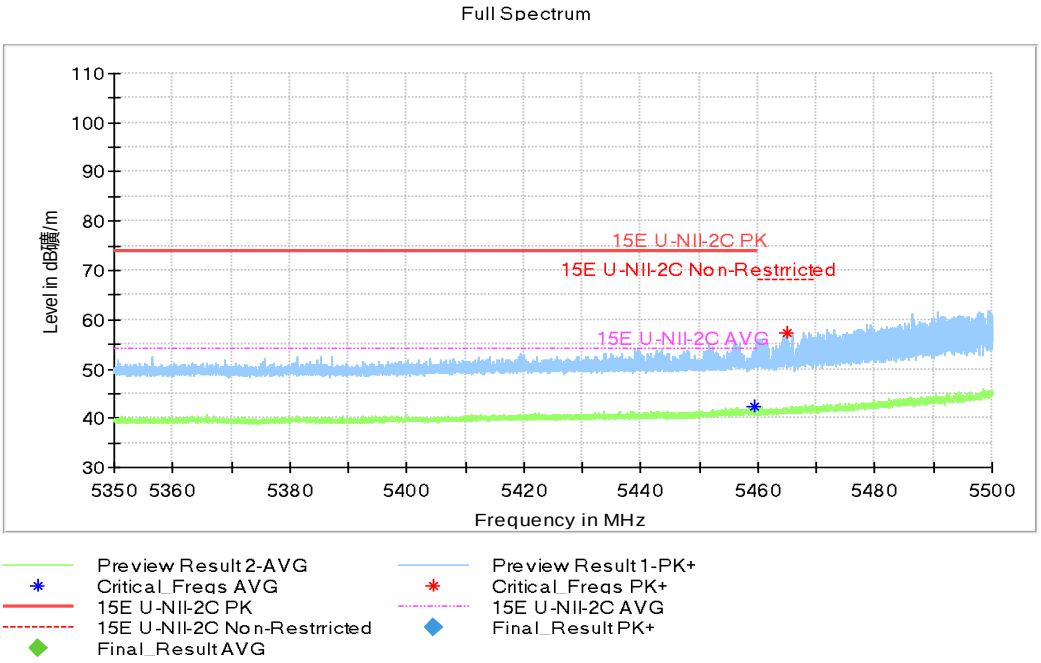


Fig.80 Band Edges (802.11n 40MHz, CH110, 5550MHz)

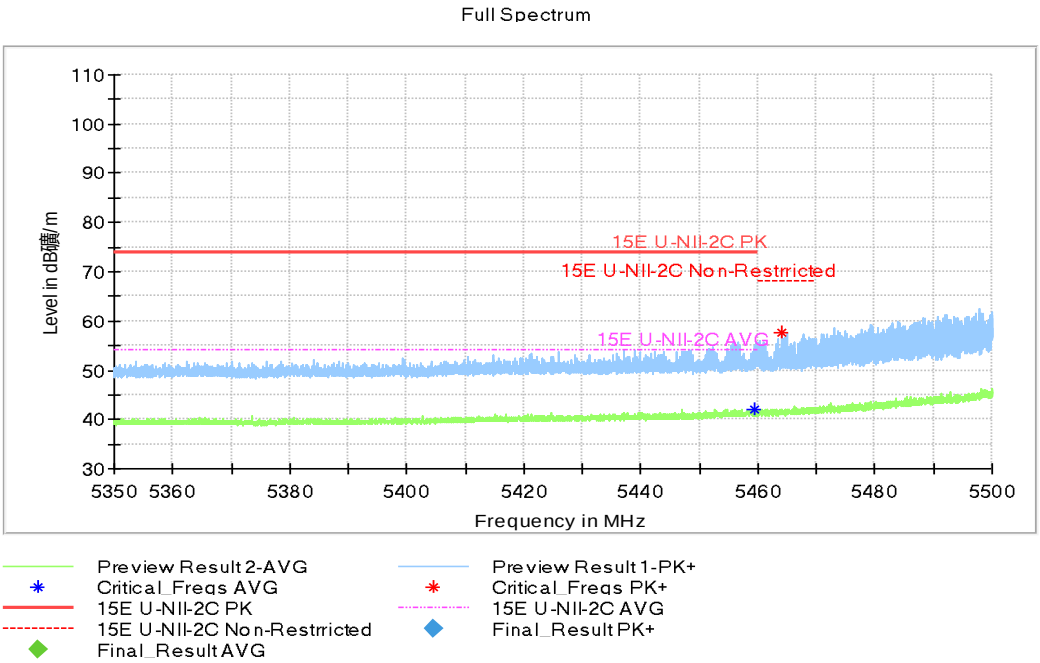


Fig.81 Band Edges (802.11ac 40MHz, CH110, 5550MHz)

A.7. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

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 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

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.9dB, k=2.

Measurement Results:

EUT ID: UT22a + AE2-1 + AE1-3

Conclusion: PASS

Note:

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.

The measurement results are obtained as described below:

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

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)
17932.900	40.64	-25.50	46.66	19.48	54.00	13.36	H
17971.400	40.50	-25.50	46.66	19.34	54.00	13.50	V
14495.950	37.59	-28.59	42.46	23.72	54.00	16.41	H
13322.800	37.50	-29.49	39.71	27.28	54.00	16.50	H
5146.780	43.73	-27.61	33.67	37.67	54.00	10.27	H
5148.980	43.44	-27.61	33.67	37.38	54.00	10.56	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)
17936.750	40.62	-25.50	46.66	19.46	54.00	13.38	V
17996.150	40.55	-25.50	46.66	19.39	54.00	13.45	H
13293.650	37.70	-29.49	39.71	27.48	54.00	16.30	V
14489.350	37.52	-28.59	42.46	23.65	54.00	16.48	V
11402.750	36.31	-32.42	38.79	29.94	54.00	17.69	H
11869.700	36.28	-31.85	39.05	29.08	54.00	17.72	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)
17944.450	40.86	-25.50	46.66	19.70	54.00	13.14	H
17997.250	40.82	-25.50	46.66	19.66	54.00	13.18	V
14480.550	37.56	-28.59	42.46	23.69	54.00	16.44	H
14497.600	37.56	-28.59	42.46	23.69	54.00	16.44	V
11292.200	36.46	-32.36	38.77	30.06	54.00	17.54	V
11860.900	36.39	-31.85	39.05	29.19	54.00	17.61	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)
17924.650	40.69	-25.50	46.66	19.53	54.00	13.31	V
17898.800	40.52	-25.50	46.66	19.36	54.00	13.48	V
14493.750	37.68	-28.59	42.46	23.81	54.00	16.32	H
14483.850	37.56	-28.59	42.46	23.69	54.00	16.44	V
11787.750	36.40	-31.99	38.98	29.41	54.00	17.60	H
11785.550	36.39	-31.99	38.98	29.40	54.00	17.61	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)
17943.900	40.94	-25.50	46.66	19.78	54.00	13.06	V
17924.650	40.66	-25.50	46.66	19.50	54.00	13.34	V
13292.550	37.76	-29.49	39.71	27.54	54.00	16.24	V
14489.350	37.63	-28.59	42.46	23.76	54.00	16.37	H
11821.300	36.56	-31.85	39.05	29.36	54.00	17.44	V
11868.600	36.54	-31.85	39.05	29.34	54.00	17.46	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)
17938.400	40.58	-25.50	46.66	19.42	54.00	13.42	V
17951.050	40.51	-25.50	46.66	19.35	54.00	13.49	H
14499.800	38.03	-28.59	42.46	24.16	54.00	15.97	V
14491.550	37.55	-28.59	42.46	23.68	54.00	16.45	V
5353.584	43.33	-27.43	34.01	36.75	54.00	10.67	H
5358.848	42.95	-27.43	34.01	36.37	54.00	11.05	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)
17964.800	40.58	-25.50	46.66	19.42	54.00	13.42	V
17921.350	40.52	-25.50	46.66	19.36	54.00	13.48	V
13314.550	37.92	-29.49	39.71	27.70	54.00	16.08	H
13327.200	37.87	-29.49	39.71	27.65	54.00	16.13	H
5458.645	42.25	-27.18	34.17	35.26	54.00	11.75	H
5456.665	42.22	-27.18	34.17	35.23	54.00	11.78	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)
17957.100	40.65	-25.50	46.66	19.49	54.00	13.35	V
17923.550	40.62	-25.50	46.66	19.46	54.00	13.38	V
14493.750	37.97	-28.59	42.46	24.10	54.00	16.03	H
13322.800	37.85	-29.49	39.71	27.63	54.00	16.15	H
11874.100	36.58	-31.85	39.05	29.38	54.00	17.42	V
11790.500	36.56	-31.99	38.98	29.57	54.00	17.44	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)
17960.400	40.95	-25.50	46.66	19.79	54.00	13.05	H
17934.000	40.88	-25.50	46.66	19.72	54.00	13.12	V
13325.000	37.78	-29.49	39.71	27.56	54.00	16.22	H
14481.100	37.66	-28.59	42.46	23.79	54.00	16.34	V
11800.400	36.66	-31.85	39.05	29.46	54.00	17.34	H
10865.400	36.57	-32.33	38.59	30.31	54.00	17.43	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)
17937.300	40.57	-25.50	46.66	19.41	54.00	13.43	V
17953.800	40.53	-25.50	46.66	19.37	54.00	13.47	V
13294.200	37.21	-29.49	39.71	26.99	54.00	16.79	H
13323.900	37.18	-29.49	39.71	26.96	54.00	16.82	V
11817.450	36.33	-31.85	39.05	29.13	54.00	17.67	V
11798.750	36.29	-31.85	39.05	29.09	54.00	17.71	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)
17973.050	41.16	-25.50	46.66	20.00	54.00	12.84	V
17945.000	40.61	-25.50	46.66	19.45	54.00	13.39	V
13331.600	37.39	-29.49	39.71	27.17	54.00	16.61	V
13292.000	37.28	-29.49	39.71	27.06	54.00	16.72	H
5148.300	43.40	-27.61	33.67	37.34	54.00	10.60	H
5142.860	43.16	-27.61	33.67	37.10	54.00	10.84	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)
17997.800	40.71	-25.50	46.66	19.55	54.00	13.29	H
17930.150	40.60	-25.50	46.66	19.44	54.00	13.40	V
14495.950	37.75	-28.59	42.46	23.88	54.00	16.25	H
14498.700	37.54	-28.59	42.46	23.67	54.00	16.46	H
11784.450	36.43	-31.99	38.98	29.44	54.00	17.57	V
11776.200	36.41	-31.99	38.98	29.42	54.00	17.59	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)
17978.000	40.53	-25.50	46.66	19.37	54.00	13.47	H
17982.950	40.51	-25.50	46.66	19.35	54.00	13.49	V
13267.800	37.52	-29.67	39.55	27.64	54.00	16.48	H
13341.500	37.42	-29.49	39.71	27.20	54.00	16.58	V
11403.850	36.62	-32.42	38.79	30.25	54.00	17.38	H
10722.400	36.32	-32.77	38.49	30.60	54.00	17.68	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)
17980.750	40.58	-25.50	46.66	19.42	54.00	13.42	V
17962.600	40.55	-25.50	46.66	19.39	54.00	13.45	V
14497.600	37.74	-28.59	42.46	23.87	54.00	16.26	H
14491.000	37.48	-28.59	42.46	23.61	54.00	16.52	V
11875.200	36.52	-31.85	39.05	29.32	54.00	17.48	V
11877.950	36.35	-31.85	39.05	29.15	54.00	17.65	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)
17991.200	40.83	-25.50	46.66	19.67	54.00	13.17	H
17960.950	40.80	-25.50	46.66	19.64	54.00	13.20	H
14487.700	37.54	-28.59	42.46	23.67	54.00	16.46	V
14498.700	37.54	-28.59	42.46	23.67	54.00	16.46	H
11869.700	36.38	-31.85	39.05	29.18	54.00	17.62	V
11779.500	36.27	-31.99	38.98	29.28	54.00	17.73	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)
17958.750	40.70	-25.50	46.66	19.54	54.00	13.30	V
17946.650	40.55	-25.50	46.66	19.39	54.00	13.45	V
13281.550	37.69	-29.67	39.55	27.81	54.00	16.31	H
13334.900	37.68	-29.49	39.71	27.46	54.00	16.32	H
5351.552	42.71	-27.43	34.01	36.13	54.00	11.29	H
5354.048	42.63	-27.43	34.01	36.05	54.00	11.37	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)
17935.650	40.61	-25.50	46.66	19.45	54.00	13.39	H
17920.250	40.47	-25.50	46.66	19.31	54.00	13.53	V
14494.850	37.61	-28.59	42.46	23.74	54.00	16.39	V
13340.400	37.57	-29.49	39.71	27.35	54.00	16.43	H
5455.960	42.18	-27.18	34.17	35.19	54.00	11.82	H
5454.025	42.12	-27.18	34.17	35.13	54.00	11.88	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)
17952.700	40.85	-25.50	46.66	19.69	54.00	13.15	H
17954.900	40.73	-25.50	46.66	19.57	54.00	13.27	V
14497.600	37.65	-28.59	42.46	23.78	54.00	16.35	H
14493.200	37.52	-28.59	42.46	23.65	54.00	16.48	V
11852.650	36.62	-31.85	39.05	29.42	54.00	17.38	H
11855.400	36.49	-31.85	39.05	29.29	54.00	17.51	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)
17915.300	40.65	-25.50	46.66	19.49	54.00	13.35	H
17992.850	40.59	-25.50	46.66	19.43	54.00	13.41	H
14491.550	37.61	-28.59	42.46	23.74	54.00	16.39	H
13314.550	37.58	-29.49	39.71	27.36	54.00	16.42	H
11791.050	36.60	-31.99	38.98	29.61	54.00	17.40	V
11792.700	36.56	-31.99	38.98	29.57	54.00	17.44	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)
17976.900	40.69	-25.50	46.66	19.53	54.00	13.31	H
17978.000	40.57	-25.50	46.66	19.41	54.00	13.43	H
13287.050	37.09	-29.67	39.55	27.21	54.00	16.91	H
13296.400	37.03	-29.49	39.71	26.81	54.00	16.97	H
11844.950	36.05	-31.85	39.05	28.85	54.00	17.95	V
11853.750	36.04	-31.85	39.05	28.84	54.00	17.96	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)
17997.800	40.98	-25.50	46.66	19.82	54.00	13.02	V
17908.150	40.80	-25.50	46.66	19.64	54.00	13.20	H
14497.600	37.95	-28.59	42.46	24.08	54.00	16.05	V
13310.700	37.53	-29.49	39.71	27.31	54.00	16.47	H
5148.900	44.05	-27.61	33.67	37.99	54.00	9.95	H
5146.940	43.96	-27.61	33.67	37.90	54.00	10.04	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)
17996.700	40.78	-25.50	46.66	19.62	54.00	13.22	V
17906.500	40.64	-25.50	46.66	19.48	54.00	13.36	V
14492.650	37.65	-28.59	42.46	23.78	54.00	16.35	H
14470.100	37.53	-28.59	42.46	23.66	54.00	16.47	H
11784.450	36.47	-31.99	38.98	29.48	54.00	17.53	H
11386.800	36.33	-32.42	38.79	29.96	54.00	17.67	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)
17951.050	40.63	-25.50	46.66	19.47	54.00	13.37	V
17907.050	40.57	-25.50	46.66	19.41	54.00	13.43	V
13317.850	37.54	-29.49	39.71	27.32	54.00	16.46	V
13292.550	37.53	-29.49	39.71	27.31	54.00	16.47	H
10861.550	36.63	-32.33	38.59	30.37	54.00	17.37	H
11847.700	36.62	-31.85	39.05	29.42	54.00	17.38	V

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)
17941.700	40.58	-25.50	46.66	19.42	54.00	13.42	H
17974.150	40.52	-25.50	46.66	19.36	54.00	13.48	H
13326.100	38.06	-29.49	39.71	27.84	54.00	15.94	H
14498.150	37.76	-28.59	42.46	23.89	54.00	16.24	H
5359.824	42.47	-27.43	34.01	35.89	54.00	11.53	H
5350.704	42.44	-27.43	34.01	35.86	54.00	11.56	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)
17978.000	40.85	-25.50	46.66	19.69	54.00	13.15	V
17985.150	40.77	-25.50	46.66	19.61	54.00	13.23	V
14495.400	37.85	-28.59	42.46	23.98	54.00	16.15	V
14488.250	37.52	-28.59	42.46	23.65	54.00	16.48	H
5459.695	44.36	-27.18	34.17	37.37	54.00	9.64	H
5458.810	44.26	-27.18	34.17	37.27	54.00	9.74	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)
17987.350	40.52	-25.50	46.66	19.36	54.00	13.48	V
17947.200	40.50	-25.50	46.66	19.34	54.00	13.50	H
14493.750	37.58	-28.59	42.46	23.71	54.00	16.42	V
14483.850	37.54	-28.59	42.46	23.67	54.00	16.46	H
11860.900	36.56	-31.85	39.05	29.36	54.00	17.44	V
11887.850	36.50	-31.85	39.05	29.30	54.00	17.50	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)
17953.250	40.68	-25.50	46.66	19.52	54.00	13.32	H
17985.150	40.61	-25.50	46.66	19.45	54.00	13.39	V
14483.300	37.45	-28.59	42.46	23.58	54.00	16.55	V
14482.200	37.43	-28.59	42.46	23.56	54.00	16.57	V
11796.550	36.80	-31.85	39.05	29.60	54.00	17.20	H
11855.400	36.55	-31.85	39.05	29.35	54.00	17.45	V

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)
17936.750	40.57	-25.50	46.66	19.41	54.00	13.43	V
17959.850	40.42	-25.50	46.66	19.26	54.00	13.58	H
13281.000	36.94	-29.67	39.55	27.06	54.00	17.06	H
13264.500	36.92	-29.67	39.55	27.04	54.00	17.08	V
11764.100	35.94	-31.99	38.98	28.95	54.00	18.06	H
11742.100	35.72	-31.99	38.98	28.73	54.00	18.28	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)
17953.250	40.71	-25.50	46.66	19.55	54.00	13.29	H
17910.900	40.67	-25.50	46.66	19.51	54.00	13.33	V
14491.550	37.73	-28.59	42.46	23.86	54.00	16.27	H
14490.450	37.63	-28.59	42.46	23.76	54.00	16.37	H
5148.920	43.58	-27.61	33.67	37.52	54.00	10.42	H
5149.760	43.48	-27.61	33.67	37.42	54.00	10.52	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)
17981.850	40.68	-25.50	46.66	19.52	54.00	13.32	H
17991.200	40.67	-25.50	46.66	19.51	54.00	13.33	H
13332.150	37.76	-29.49	39.71	27.54	54.00	16.24	H
14476.150	37.42	-28.59	42.46	23.55	54.00	16.58	H
11789.950	36.41	-31.99	38.98	29.42	54.00	17.59	V
11799.850	36.38	-31.85	39.05	29.18	54.00	17.62	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)
17952.150	40.63	-25.50	46.66	19.47	54.00	13.37	H
17954.900	40.57	-25.50	46.66	19.41	54.00	13.43	V
14498.150	37.77	-28.59	42.46	23.90	54.00	16.23	V
14492.650	37.53	-28.59	42.46	23.66	54.00	16.47	V
11783.350	36.45	-31.99	38.98	29.46	54.00	17.55	V
11789.950	36.19	-31.99	38.98	29.20	54.00	17.81	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)
17923.550	40.53	-25.50	46.66	19.37	54.00	13.47	H
17981.300	40.46	-25.50	46.66	19.30	54.00	13.54	H
14497.600	37.53	-28.59	42.46	23.66	54.00	16.47	H
14491.550	37.48	-28.59	42.46	23.61	54.00	16.52	V
11769.050	36.61	-31.99	38.98	29.62	54.00	17.39	H
10858.800	36.37	-32.33	38.59	30.11	54.00	17.63	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)
17983.500	40.83	-25.50	46.66	19.67	54.00	13.17	H
17989.550	40.81	-25.50	46.66	19.65	54.00	13.19	V
13323.900	37.62	-29.49	39.71	27.40	54.00	16.38	H
14493.200	37.61	-28.59	42.46	23.74	54.00	16.39	H
10863.200	36.35	-32.33	38.59	30.09	54.00	17.65	H
11855.950	36.35	-31.85	39.05	29.15	54.00	17.65	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)
17912.550	40.64	-25.50	46.66	19.48	54.00	13.36	H
17986.800	40.52	-25.50	46.66	19.36	54.00	13.48	V
14498.700	37.80	-28.59	42.46	23.93	54.00	16.20	H
14499.800	37.64	-28.59	42.46	23.77	54.00	16.36	H
5352.496	42.87	-27.43	34.01	36.29	54.00	11.13	H
5350.688	42.68	-27.43	34.01	36.10	54.00	11.32	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)
17961.500	40.64	-25.50	46.66	19.48	54.00	13.36	H
17931.800	40.60	-25.50	46.66	19.44	54.00	13.40	H
14480.550	37.59	-28.59	42.46	23.72	54.00	16.41	H
14482.200	37.53	-28.59	42.46	23.66	54.00	16.47	V
5458.540	42.01	-27.18	34.17	35.02	54.00	11.99	H
5455.420	41.95	-27.18	34.17	34.96	54.00	12.05	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)
17924.650	40.72	-25.50	46.66	19.56	54.00	13.28	V
17960.400	40.63	-25.50	46.66	19.47	54.00	13.37	V
14477.800	37.66	-28.59	42.46	23.79	54.00	16.34	V
14471.200	37.59	-28.59	42.46	23.72	54.00	16.41	V
11781.150	37.04	-31.99	38.98	30.05	54.00	16.96	H
11869.150	36.60	-31.85	39.05	29.40	54.00	17.40	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)
17907.600	40.89	-25.50	46.66	19.73	54.00	13.11	H
17934.550	40.77	-25.50	46.66	19.61	54.00	13.23	H
14492.650	37.71	-28.59	42.46	23.84	54.00	16.29	V
14491.550	37.55	-28.59	42.46	23.68	54.00	16.45	V
11787.750	36.71	-31.99	38.98	29.72	54.00	17.29	V
11313.650	36.39	-32.36	38.77	29.99	54.00	17.61	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)
17960.400	40.70	-25.50	46.66	19.54	54.00	13.30	V
17963.150	40.68	-25.50	46.66	19.52	54.00	13.32	V
13282.100	37.14	-29.67	39.55	27.26	54.00	16.86	H
13287.050	37.13	-29.67	39.55	27.25	54.00	16.87	V
11242.700	35.93	-32.36	38.77	29.53	54.00	18.07	H
7626.450	35.85	-34.66	36.92	33.59	54.00	18.15	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)
17918.050	40.79	-25.50	46.66	19.63	54.00	13.21	V
17965.350	40.65	-25.50	46.66	19.49	54.00	13.35	H
14497.600	37.49	-28.59	42.46	23.62	54.00	16.51	V
14484.950	37.47	-28.59	42.46	23.60	54.00	16.53	V
5147.720	44.23	-27.61	33.67	38.17	54.00	9.77	H
5149.080	43.87	-27.61	33.67	37.81	54.00	10.13	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)
17932.350	41.02	-25.50	46.66	19.86	54.00	12.98	V
17939.500	40.69	-25.50	46.66	19.53	54.00	13.31	V
14483.300	37.66	-28.59	42.46	23.79	54.00	16.34	H
14499.800	37.48	-28.59	42.46	23.61	54.00	16.52	H
11875.200	37.12	-31.85	39.05	29.92	54.00	16.88	H
11454.450	36.77	-32.26	38.84	30.20	54.00	17.23	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)
17908.150	40.61	-25.50	46.66	19.45	54.00	13.39	H
17909.250	40.51	-25.50	46.66	19.35	54.00	13.49	V
13327.200	37.67	-29.49	39.71	27.45	54.00	16.33	H
14490.450	37.57	-28.59	42.46	23.70	54.00	16.43	H
10857.150	36.75	-32.33	38.59	30.49	54.00	17.25	V
11868.050	36.42	-31.85	39.05	29.22	54.00	17.58	V

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)
17902.650	40.78	-25.50	46.66	19.62	54.00	13.22	V
17935.650	40.61	-25.50	46.66	19.45	54.00	13.39	H
13306.300	37.47	-29.49	39.71	27.25	54.00	16.53	V
14499.250	37.38	-28.59	42.46	23.51	54.00	16.62	H
5353.552	43.35	-27.43	34.01	36.77	54.00	10.65	H
5351.072	43.16	-27.43	34.01	36.58	54.00	10.84	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)
17980.200	40.82	-25.50	46.66	19.66	54.00	13.18	H
17926.850	40.62	-25.50	46.66	19.46	54.00	13.38	V
14489.900	37.97	-28.59	42.46	24.10	54.00	16.03	V
14493.200	37.68	-28.59	42.46	23.81	54.00	16.32	V
5453.845	43.58	-27.18	34.17	36.59	54.00	10.42	H
5456.860	43.58	-27.18	34.17	36.59	54.00	10.42	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)
17946.650	40.85	-25.50	46.66	19.69	54.00	13.15	H
17921.900	40.79	-25.50	46.66	19.63	54.00	13.21	H
13306.850	37.67	-29.49	39.71	27.45	54.00	16.33	H
14477.250	37.54	-28.59	42.46	23.67	54.00	16.46	V
10875.850	36.74	-32.33	38.59	30.48	54.00	17.26	V
11795.450	36.67	-31.85	39.05	29.47	54.00	17.33	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)
17970.300	41.04	-25.50	46.66	19.88	54.00	12.96	H
17963.700	40.64	-25.50	46.66	19.48	54.00	13.36	H
13316.200	37.58	-29.49	39.71	27.36	54.00	16.42	V
13324.450	37.55	-29.49	39.71	27.33	54.00	16.45	H
11787.750	36.58	-31.99	38.98	29.59	54.00	17.42	H
11875.200	36.45	-31.85	39.05	29.25	54.00	17.55	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)
17994.500	40.59	-25.50	46.66	19.43	54.00	13.41	H
17935.650	40.42	-25.50	46.66	19.26	54.00	13.58	H
13279.900	37.13	-29.67	39.55	27.25	54.00	16.87	V
13305.750	37.07	-29.49	39.71	26.85	54.00	16.93	V
7613.250	36.88	-34.66	36.92	34.62	54.00	17.12	H
7612.700	36.24	-35.04	36.87	34.41	54.00	17.76	H

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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)
17947.750	41.04	-25.50	46.66	19.88	54.00	12.96	H
17950.500	40.62	-25.50	46.66	19.46	54.00	13.38	H
14481.100	37.42	-28.59	42.46	23.55	54.00	16.58	H
14488.250	37.38	-28.59	42.46	23.51	54.00	16.62	V
5137.760	45.28	-27.61	33.67	39.22	54.00	8.72	H
5137.860	45.06	-27.61	33.67	39.00	54.00	8.94	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)
17948.850	40.74	-25.50	46.66	19.58	54.00	13.26	H
17923.550	40.68	-25.50	46.66	19.52	54.00	13.32	V
14485.500	37.51	-28.59	42.46	23.64	54.00	16.49	H
13291.450	37.44	-29.49	39.71	27.22	54.00	16.56	V
5355.008	42.81	-27.43	34.01	36.23	54.00	11.19	H
5350.704	42.80	-27.43	34.01	36.22	54.00	11.20	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)
17998.900	40.99	-25.50	46.66	19.83	54.00	13.01	V
17901.550	40.77	-25.50	46.66	19.61	54.00	13.23	H
14499.250	37.70	-28.59	42.46	23.83	54.00	16.30	H
14498.150	37.67	-28.59	42.46	23.80	54.00	16.33	H
5432.755	47.87	-27.18	34.17	40.88	54.00	6.13	H
5432.605	47.63	-27.18	34.17	40.64	54.00	6.37	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)
17929.050	40.61	-25.50	46.66	19.45	54.00	13.39	H
17927.400	40.59	-25.50	46.66	19.43	54.00	13.41	H
13331.600	37.63	-29.49	39.71	27.41	54.00	16.37	H
13327.750	37.54	-29.49	39.71	27.32	54.00	16.46	H
11860.900	36.79	-31.85	39.05	29.59	54.00	17.21	H
11866.950	36.67	-31.85	39.05	29.47	54.00	17.33	V

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)
17970.850	40.51	-25.50	46.66	19.35	54.00	13.49	V
17957.100	40.38	-25.50	46.66	19.22	54.00	13.62	V
13292.000	37.33	-29.49	39.71	27.11	54.00	16.67	V
13304.650	37.04	-29.49	39.71	26.82	54.00	16.96	H
11836.700	35.92	-31.85	39.05	28.72	54.00	18.08	V
11795.450	35.77	-31.85	39.05	28.57	54.00	18.23	H

PEAK Results:

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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)
17319.100	51.14	-25.95	44.35	32.73	68.20	17.06	H
17217.350	51.10	-25.95	44.35	32.69	68.20	17.10	V
13671.500	49.25	-29.50	40.43	38.32	68.20	18.95	H
14590.000	49.20	-27.29	41.90	34.59	68.20	19.00	V
5149.860	65.00	-27.61	33.67	58.94	74.00	9.00	H
5149.960	64.36	-27.61	33.67	58.30	74.00	9.64	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)
17947.200	51.72	-25.50	46.66	30.56	74.00	22.28	V
17135.400	51.50	-26.60	43.36	34.74	68.20	16.70	H
13728.700	49.28	-29.10	40.86	37.51	68.20	18.92	H
13648.400	49.11	-29.50	40.43	38.18	68.20	19.09	V
11837.250	47.10	-31.85	39.05	39.90	74.00	26.90	H
10791.700	47.03	-32.33	38.59	40.77	74.00	26.97	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)
17870.200	51.61	-25.50	46.66	30.45	74.00	22.39	V
17239.900	51.44	-25.95	44.35	33.03	68.20	16.76	V
13659.950	50.34	-29.50	40.43	39.41	68.20	17.86	H
13748.500	49.76	-29.10	40.86	37.99	68.20	18.44	V
10865.950	47.07	-32.33	38.59	40.81	74.00	26.93	V
11374.150	46.95	-32.42	38.79	40.58	74.00	27.05	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)
17913.100	51.55	-25.50	46.66	30.39	74.00	22.45	V
17382.900	51.40	-25.95	44.35	32.99	68.20	16.80	H
13708.900	49.91	-29.10	40.86	38.14	68.20	18.29	H
13828.800	49.46	-29.10	40.86	37.69	68.20	18.74	V
11243.800	47.15	-32.36	38.77	40.75	74.00	26.85	V
10474.350	46.90	-32.99	38.27	41.61	68.20	21.30	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)
17609.500	52.28	-25.74	45.95	32.07	68.20	15.92	H
17894.400	51.57	-25.50	46.66	30.41	74.00	22.43	V
14600.450	49.48	-27.29	41.90	34.87	68.20	18.72	V
14587.800	49.29	-27.29	41.90	34.68	68.20	18.91	H
11843.300	47.28	-31.85	39.05	40.08	74.00	26.72	V
11781.150	47.17	-31.99	38.98	40.18	74.00	26.83	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)
17936.200	51.74	-25.50	46.66	30.58	74.00	22.26	V
17357.050	51.40	-25.95	44.35	32.99	68.20	16.80	H
13757.300	49.23	-29.10	40.86	37.46	68.20	18.97	H
14494.850	49.05	-28.59	42.46	35.18	74.00	24.95	H
5351.424	63.29	-27.43	34.01	56.71	74.00	10.71	H
5350.336	63.26	-27.43	34.01	56.68	74.00	10.74	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)
16862.600	51.36	-26.62	41.49	36.49	68.20	16.84	V
17236.050	51.36	-25.95	44.35	32.95	68.20	16.84	V
13737.500	50.04	-29.10	40.86	38.27	68.20	18.16	H
13725.400	49.78	-29.10	40.86	38.01	68.20	18.42	H
5458.750	59.74	-27.18	34.17	52.75	74.00	14.26	H
5469.070	62.26	-27.18	34.17	55.27	68.20	5.94	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)
17901.000	51.90	-25.50	46.66	30.74	74.00	22.10	V
17995.050	51.82	-25.50	46.66	30.66	74.00	22.18	H
14125.800	49.60	-28.99	42.00	36.58	68.20	18.60	V
14129.650	49.49	-28.99	42.00	36.47	68.20	18.71	V
11816.350	47.34	-31.85	39.05	40.14	74.00	26.66	H
11869.150	47.31	-31.85	39.05	40.11	74.00	26.69	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)
17546.250	51.50	-26.85	45.25	33.10	68.20	16.70	H
17577.600	51.21	-25.74	45.95	31.00	68.20	16.99	H
14590.550	49.89	-27.29	41.90	35.28	68.20	18.31	H
13728.150	49.11	-29.10	40.86	37.34	68.20	19.09	V
5725.443	63.56	-27.07	34.31	56.32	68.20	4.64	H
5725.898	62.00	-27.07	34.31	54.76	68.20	6.20	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)
17417.000	51.87	-26.85	45.25	33.47	68.20	16.33	H
17588.050	51.51	-25.74	45.95	31.30	68.20	16.69	H
13785.350	49.20	-29.10	40.86	37.43	68.20	19.00	V
13799.100	49.06	-29.10	40.86	37.29	68.20	19.14	H
11753.650	47.19	-31.99	38.98	40.20	74.00	26.81	V
10861.000	47.16	-32.33	38.59	40.90	74.00	26.84	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)
17905.950	51.56	-25.50	46.66	30.40	74.00	22.44	V
17237.700	51.46	-25.95	44.35	33.05	68.20	16.74	V
13744.100	50.51	-29.10	40.86	38.74	68.20	17.69	H
13810.100	49.56	-29.10	40.86	37.79	68.20	18.64	H
5150.000	63.31	-27.61	33.67	57.25	74.00	10.69	H
5149.780	63.20	-27.61	33.67	57.14	74.00	10.80	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)
17890.550	51.83	-25.50	46.66	30.67	74.00	22.17	H
17462.650	51.25	-26.85	45.25	32.85	68.20	16.95	H
13753.450	49.43	-29.10	40.86	37.66	68.20	18.77	V
13720.450	49.36	-29.10	40.86	37.59	68.20	18.84	H
11231.150	47.57	-32.36	38.77	41.17	74.00	26.43	V
11414.300	47.23	-32.42	38.79	40.86	74.00	26.77	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)
17340.000	52.79	-25.95	44.35	34.38	68.20	15.41	V
17220.100	51.44	-25.95	44.35	33.03	68.20	16.76	V
13745.200	49.52	-29.10	40.86	37.75	68.20	18.68	H
14118.650	49.22	-28.99	42.00	36.20	68.20	18.98	H
11128.850	46.81	-32.60	38.75	40.67	74.00	27.19	V
10476.550	46.77	-32.99	38.27	41.48	68.20	21.43	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)
16884.600	51.37	-26.32	42.36	35.32	68.20	16.83	H
17555.050	51.35	-26.85	45.25	32.95	68.20	16.85	V
14569.100	49.43	-27.29	41.90	34.82	68.20	18.77	H
13732.000	49.41	-29.10	40.86	37.64	68.20	18.79	H
11229.500	47.51	-32.36	38.77	41.11	74.00	26.49	V
11691.500	47.19	-31.99	38.98	40.20	74.00	26.81	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)
17234.400	51.89	-25.95	44.35	33.48	68.20	16.31	H
17237.700	51.31	-25.95	44.35	32.90	68.20	16.89	H
13690.200	49.54	-29.50	40.43	38.61	68.20	18.66	H
14673.600	49.30	-27.29	41.90	34.69	68.20	18.90	H
11632.650	47.71	-32.31	38.91	41.12	74.00	26.29	H
11794.350	47.21	-31.99	38.98	40.22	74.00	26.79	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)
17998.900	51.55	-25.50	46.66	30.39	74.00	22.45	V
17630.400	51.23	-25.74	45.95	31.02	68.20	16.97	H
13666.000	49.59	-29.50	40.43	38.66	68.20	18.61	V
14091.150	49.13	-29.44	41.66	36.91	68.20	19.07	H
5350.288	64.68	-27.43	34.01	58.10	74.00	9.32	H
5350.016	64.20	-27.43	34.01	57.62	74.00	9.80	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)
17454.400	52.06	-26.85	45.25	33.66	68.20	16.14	V
17985.700	51.83	-25.50	46.66	30.67	74.00	22.17	V
13686.350	49.81	-29.50	40.43	38.88	68.20	18.39	V
13703.400	49.23	-29.10	40.86	37.46	68.20	18.97	V
5459.305	59.32	-27.18	34.17	52.33	74.00	14.68	H
5469.400	62.61	-27.18	34.17	55.62	68.20	5.59	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)
17932.350	51.53	-25.50	46.66	30.37	74.00	22.47	V
17382.900	51.50	-25.95	44.35	33.09	68.20	16.70	V
13715.500	49.73	-29.10	40.86	37.96	68.20	18.47	V
13744.650	49.55	-29.10	40.86	37.78	68.20	18.65	V
10759.250	47.20	-32.77	38.49	41.48	74.00	26.80	H
11225.650	46.92	-32.36	38.77	40.52	74.00	27.08	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)
17226.700	51.93	-25.95	44.35	33.52	68.20	16.27	V
17962.600	51.39	-25.50	46.66	30.23	74.00	22.61	H
13732.000	49.98	-29.10	40.86	38.21	68.20	18.22	V
13764.450	49.66	-29.10	40.86	37.89	68.20	18.54	H
5725.408	62.24	-27.07	34.31	55.00	68.20	5.96	H
5725.547	62.24	-27.07	34.31	55.00	68.20	5.96	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)
17350.450	51.63	-25.95	44.35	33.22	68.20	16.57	H
17073.250	51.26	-26.60	43.36	34.50	68.20	16.94	H
13640.700	49.03	-29.50	40.43	38.10	68.20	19.17	V
14525.650	49.03	-28.59	42.46	35.16	68.20	19.17	V
11854.850	47.61	-31.85	39.05	40.41	74.00	26.39	H
8851.850	46.55	-33.54	38.14	41.94	68.20	21.65	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)
17594.100	51.73	-25.74	45.95	31.52	68.20	16.47	H
17923.000	51.71	-25.50	46.66	30.55	74.00	22.29	V
14497.050	49.93	-28.59	42.46	36.06	74.00	24.07	V
14101.600	49.20	-29.44	41.66	36.98	68.20	19.00	V
5146.780	62.08	-27.61	33.67	56.02	74.00	11.92	H
5149.540	61.64	-27.61	33.67	55.58	74.00	12.36	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)
17242.650	52.44	-25.95	44.35	34.03	68.20	15.76	V
17887.250	51.93	-25.50	46.66	30.77	74.00	22.07	V
13781.500	49.66	-29.10	40.86	37.89	68.20	18.54	H
14073.550	49.36	-29.44	41.66	37.14	68.20	18.84	V
11442.900	47.16	-32.42	38.79	40.79	74.00	26.84	H
11865.300	47.02	-31.85	39.05	39.82	74.00	26.98	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)
17954.900	51.36	-25.50	46.66	30.20	74.00	22.64	H
17247.050	51.24	-25.95	44.35	32.83	68.20	16.96	H
13714.950	49.38	-29.10	40.86	37.61	68.20	18.82	V
13661.600	49.31	-29.50	40.43	38.38	68.20	18.89	H
7317.350	47.35	-35.13	36.65	45.83	74.00	26.65	V
11796.000	46.92	-31.85	39.05	39.72	74.00	27.08	V

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)
17942.800	52.70	-25.50	46.66	31.54	74.00	21.30	H
16988.550	51.81	-26.32	42.36	35.76	68.20	16.39	H
14096.100	50.29	-29.44	41.66	38.07	68.20	17.91	V
13751.250	49.40	-29.10	40.86	37.63	68.20	18.80	V
5350.944	61.11	-27.43	34.01	54.53	74.00	12.89	H
5351.088	60.94	-27.43	34.01	54.36	74.00	13.06	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)
17942.800	51.27	-25.50	46.66	30.11	74.00	22.73	V
17459.900	51.17	-26.85	45.25	32.77	68.20	17.03	V
13724.850	49.26	-29.10	40.86	37.49	68.20	18.94	H
13746.850	49.21	-29.10	40.86	37.44	68.20	18.99	V
5459.365	60.95	-27.18	34.17	53.96	74.00	13.05	H
5466.310	62.54	-27.18	34.17	55.55	68.20	5.66	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)
17967.000	51.41	-25.50	46.66	30.25	74.00	22.59	V
17607.300	51.28	-25.74	45.95	31.07	68.20	16.92	H
13688.550	49.64	-29.50	40.43	38.71	68.20	18.56	V
14117.550	49.14	-28.99	42.00	36.12	68.20	19.06	V
11511.650	47.44	-32.26	38.84	40.87	74.00	26.56	H
11769.600	47.26	-31.99	38.98	40.27	74.00	26.74	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)
17371.900	51.22	-25.95	44.35	32.81	68.20	16.98	V
17963.150	51.12	-25.50	46.66	29.96	74.00	22.88	H
14125.250	49.67	-28.99	42.00	36.65	68.20	18.53	V
13736.400	49.27	-29.10	40.86	37.50	68.20	18.93	H
5730.342	63.88	-27.07	34.31	56.64	68.20	4.32	H
5730.203	63.52	-27.07	34.31	56.28	68.20	4.68	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)
17964.800	51.05	-25.50	46.66	29.89	74.00	22.95	V
17992.850	50.97	-25.50	46.66	29.81	74.00	23.03	V
13636.850	49.03	-29.50	40.43	38.10	68.20	19.17	H
13778.200	48.97	-29.10	40.86	37.20	68.20	19.23	V
11857.050	46.86	-31.85	39.05	39.66	74.00	27.14	V
11266.350	46.72	-32.36	38.77	40.32	74.00	27.28	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)
17574.850	51.48	-25.74	45.95	31.27	68.20	16.72	H
17891.100	51.02	-25.50	46.66	29.86	74.00	22.98	V
13623.100	50.41	-29.50	40.43	39.48	68.20	17.79	V
14138.450	49.11	-28.99	42.00	36.09	68.20	19.09	V
5147.440	64.20	-27.61	33.67	58.14	74.00	9.80	H
5148.900	63.99	-27.61	33.67	57.93	74.00	10.01	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)
17556.150	52.07	-26.85	45.25	33.67	68.20	16.13	H
17986.250	52.04	-25.50	46.66	30.88	74.00	21.96	H
13694.050	49.38	-29.10	40.86	37.61	68.20	18.82	H
13697.900	48.75	-29.10	40.86	36.98	68.20	19.45	V
10742.750	47.20	-32.77	38.49	41.48	74.00	26.80	V
10894.550	47.20	-32.82	38.70	41.32	74.00	26.80	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)
16955.550	52.52	-26.32	42.36	36.47	68.20	15.68	H
17446.700	51.54	-26.85	45.25	33.14	68.20	16.66	H
14560.300	49.74	-27.29	41.90	35.13	68.20	18.46	V
14568.000	49.61	-27.29	41.90	35.00	68.20	18.59	V
11843.850	47.85	-31.85	39.05	40.65	74.00	26.15	V
11819.100	47.42	-31.85	39.05	40.22	74.00	26.58	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)
17959.850	51.82	-25.50	46.66	30.66	74.00	22.18	V
17963.150	51.70	-25.50	46.66	30.54	74.00	22.30	H
13728.150	49.43	-29.10	40.86	37.66	68.20	18.77	V
14575.700	49.02	-27.29	41.90	34.41	68.20	19.18	V
11962.100	47.36	-31.48	39.09	39.75	74.00	26.64	H
9438.700	47.13	-32.95	37.91	42.16	74.00	26.87	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)
16845.550	51.60	-26.62	41.49	36.73	68.20	16.60	V
17587.500	51.25	-25.74	45.95	31.04	68.20	16.95	V
14103.800	50.18	-29.44	41.66	37.96	68.20	18.02	V
13679.200	49.59	-29.50	40.43	38.66	68.20	18.61	H
11309.800	47.02	-32.36	38.77	40.62	74.00	26.98	V
11880.700	46.87	-31.85	39.05	39.67	74.00	27.13	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)
17446.700	51.82	-26.85	45.25	33.42	68.20	16.38	H
17934.000	51.81	-25.50	46.66	30.65	74.00	22.19	V
13733.100	50.47	-29.10	40.86	38.70	68.20	17.73	V
14167.050	49.27	-28.99	42.00	36.25	68.20	18.93	H
5350.896	63.43	-27.43	34.01	56.85	74.00	10.57	H
5352.784	63.43	-27.43	34.01	56.85	74.00	10.57	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)
16858.750	51.63	-26.62	41.49	36.76	68.20	16.57	V
16838.950	51.57	-26.62	41.49	36.70	68.20	16.63	V
14577.350	50.23	-27.29	41.90	35.62	68.20	17.97	V
14691.200	49.36	-28.32	41.35	36.34	68.20	18.84	V
5459.995	59.74	-27.18	34.17	52.75	74.00	14.26	H
5469.490	62.59	-27.18	34.17	55.60	68.20	5.61	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)
17432.950	51.99	-26.85	45.25	33.59	68.20	16.21	H
17969.750	51.98	-25.50	46.66	30.82	74.00	22.02	H
13727.050	50.07	-29.10	40.86	38.30	68.20	18.13	V
13698.450	49.86	-29.10	40.86	38.09	68.20	18.34	H
10833.500	47.43	-32.33	38.59	41.17	74.00	26.57	V
10865.400	47.43	-32.33	38.59	41.17	74.00	26.57	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)
17227.250	51.65	-25.95	44.35	33.24	68.20	16.55	V
17930.700	51.65	-25.50	46.66	30.49	74.00	22.35	V
13948.150	49.78	-29.51	41.30	37.99	68.20	18.42	H
13624.750	49.23	-29.50	40.43	38.30	68.20	18.97	V
5725.512	62.13	-27.07	34.31	54.89	68.20	6.07	H
5726.195	62.09	-27.07	34.31	54.85	68.20	6.11	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)
17146.400	51.17	-26.60	43.36	34.41	68.20	17.03	H
17189.300	51.07	-26.60	43.36	34.31	68.20	17.13	H
14104.900	50.20	-29.44	41.66	37.98	68.20	18.00	V
13586.250	49.40	-29.50	40.43	38.47	68.20	18.80	H
11921.950	46.93	-31.48	39.09	39.32	74.00	27.07	H
11859.800	46.47	-31.85	39.05	39.27	74.00	27.53	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)
16977.000	51.54	-26.32	42.36	35.49	68.20	16.66	V
17932.900	51.52	-25.50	46.66	30.36	74.00	22.48	V
14095.550	49.51	-29.44	41.66	37.29	68.20	18.69	V
13715.500	49.37	-29.10	40.86	37.60	68.20	18.83	H
5149.320	61.77	-27.61	33.67	55.71	74.00	12.23	H
5148.920	61.71	-27.61	33.67	55.65	74.00	12.29	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)
17559.450	51.53	-26.85	45.25	33.13	68.20	16.67	H
17389.500	51.23	-26.85	45.25	32.83	68.20	16.97	H
13828.250	49.35	-29.10	40.86	37.58	68.20	18.85	V
13778.750	49.28	-29.10	40.86	37.51	68.20	18.92	V
11783.350	47.36	-31.99	38.98	40.37	74.00	26.64	H
9000.350	47.27	-33.28	38.19	42.36	74.00	26.73	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)
17228.350	51.57	-25.95	44.35	33.16	68.20	16.63	V
17346.050	51.56	-25.95	44.35	33.15	68.20	16.64	V
13754.550	50.26	-29.10	40.86	38.49	68.20	17.94	V
13702.300	49.07	-29.10	40.86	37.30	68.20	19.13	V
10630.000	46.97	-32.76	38.38	41.35	74.00	27.03	H
11385.700	46.97	-32.42	38.79	40.60	74.00	27.03	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)
17990.100	52.10	-25.50	46.66	30.94	74.00	21.90	H
17126.050	51.57	-26.60	43.36	34.81	68.20	16.63	H
14597.150	49.55	-27.29	41.90	34.94	68.20	18.65	H
13700.100	49.41	-29.10	40.86	37.64	68.20	18.79	V
5351.360	61.12	-27.43	34.01	54.54	74.00	12.88	H
5351.104	60.97	-27.43	34.01	54.39	74.00	13.03	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)
16853.250	51.43	-26.62	41.49	36.56	68.20	16.77	H
17990.100	51.24	-25.50	46.66	30.08	74.00	22.76	H
13804.050	50.03	-29.10	40.86	38.26	68.20	18.17	H
14122.500	49.43	-28.99	42.00	36.41	68.20	18.77	V
5456.740	60.43	-27.18	34.17	53.44	74.00	13.57	H
5469.055	62.11	-27.18	34.17	55.12	68.20	6.09	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)
17359.800	51.77	-25.95	44.35	33.36	68.20	16.43	H
17931.250	51.59	-25.50	46.66	30.43	74.00	22.41	H
13714.400	49.90	-29.10	40.86	38.13	68.20	18.30	H
14072.450	49.77	-29.44	41.66	37.55	68.20	18.43	V
11243.250	47.90	-32.36	38.77	41.50	74.00	26.10	H
10746.600	47.11	-32.77	38.49	41.39	74.00	26.89	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)
17445.600	52.24	-26.85	45.25	33.84	68.20	15.96	V
16851.050	51.39	-26.62	41.49	36.52	68.20	16.81	H
13747.400	50.12	-29.10	40.86	38.35	68.20	18.08	H
13691.850	49.53	-29.50	40.43	38.60	68.20	18.67	V
5725.722	63.90	-27.07	34.31	56.66	68.20	4.30	H
5729.432	63.71	-27.07	34.31	56.47	68.20	4.49	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)
17258.600	51.65	-25.95	44.35	33.24	68.20	16.55	V
16996.250	51.56	-26.32	42.36	35.51	68.20	16.64	H
13689.650	48.54	-29.50	40.43	37.61	68.20	19.66	V
13738.600	48.52	-29.10	40.86	36.75	68.20	19.68	V
11400.550	46.14	-32.42	38.79	39.77	74.00	27.86	H
11785.000	46.07	-31.99	38.98	39.08	74.00	27.93	H

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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)
17453.300	51.96	-26.85	45.25	33.56	68.20	16.24	V
17541.300	51.78	-26.85	45.25	33.38	68.20	16.42	V
14202.250	50.26	-28.99	42.00	37.24	68.20	17.94	H
13708.900	49.60	-29.10	40.86	37.83	68.20	18.60	V
5145.300	59.64	-27.61	33.67	53.58	74.00	14.36	H
5145.440	59.61	-27.61	33.67	53.55	74.00	14.39	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)
17949.950	51.84	-25.50	46.66	30.68	74.00	22.16	H
17561.100	51.45	-26.85	45.25	33.05	68.20	16.75	H
14590.000	50.27	-27.29	41.90	35.66	68.20	17.93	H
13657.750	49.21	-29.50	40.43	38.28	68.20	18.99	V
5353.328	55.57	-27.43	34.01	48.99	74.00	18.43	H
5352.016	55.43	-27.43	34.01	48.85	74.00	18.57	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)
17474.200	51.62	-26.85	45.25	33.22	68.20	16.58	V
17976.900	51.59	-25.50	46.66	30.43	74.00	22.41	V
13669.300	49.29	-29.50	40.43	38.36	68.20	18.91	V
13721.550	49.27	-29.10	40.86	37.50	68.20	18.93	V
5439.040	58.78	-27.18	34.17	51.79	74.00	15.22	H
5466.625	59.95	-27.18	34.17	52.96	68.20	8.25	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)
17885.050	52.20	-25.50	46.66	31.04	74.00	21.80	V
17547.350	51.95	-26.85	45.25	33.55	68.20	16.25	V
13675.350	49.33	-29.50	40.43	38.40	68.20	18.87	V
14119.750	49.18	-28.99	42.00	36.16	68.20	19.02	V
5725.863	60.65	-27.07	34.31	53.41	68.20	7.55	H
5726.790	60.49	-27.07	34.31	53.25	68.20	7.71	H

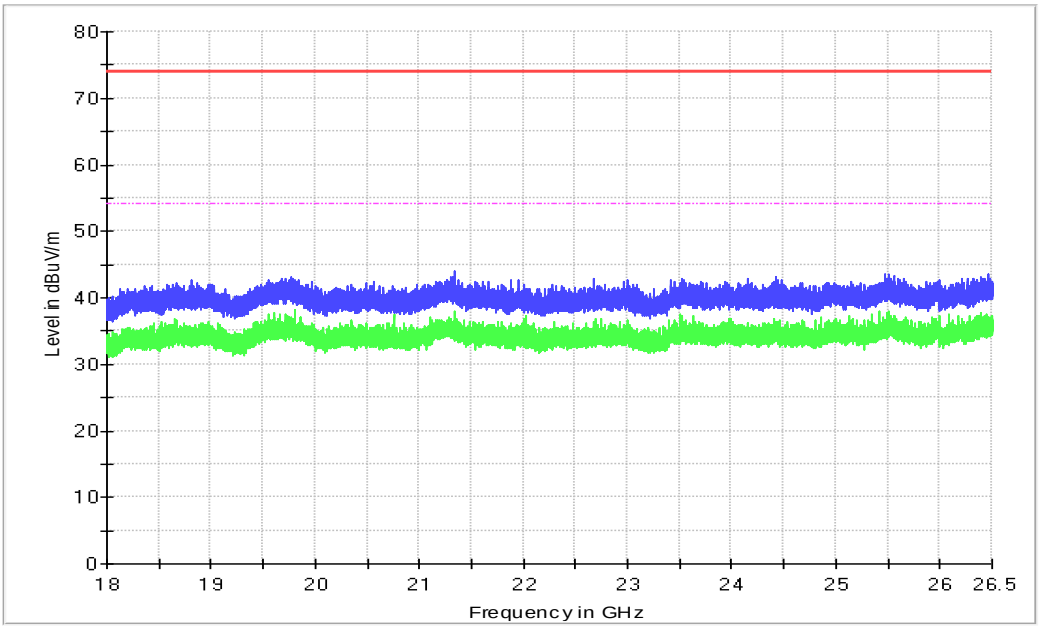
Channel 138

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)
17442.850	52.18	-26.85	45.25	33.78	68.20	16.02	V
17352.650	51.46	-25.95	44.35	33.05	68.20	16.74	V
13767.750	49.17	-29.10	40.86	37.40	68.20	19.03	V
14132.950	48.60	-28.99	42.00	35.58	68.20	19.60	V
10839.550	47.24	-32.33	38.59	40.98	74.00	26.76	V
11789.950	46.60	-31.99	38.98	39.61	74.00	27.40	V

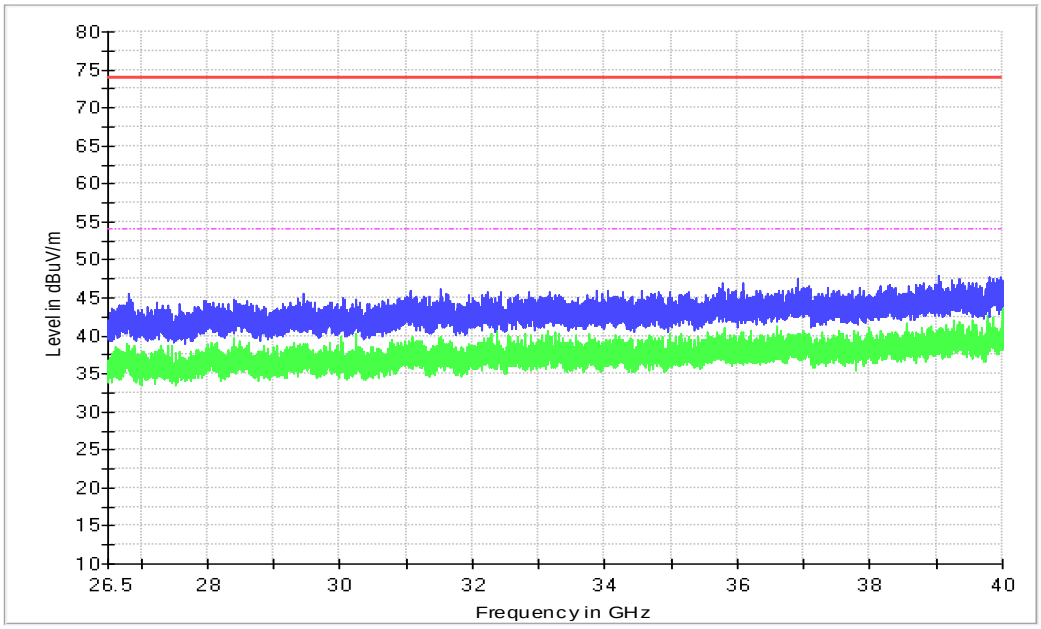
Sample calculation: 17442.850 MHz

Peak ERP(dBm) = P_{Mea}(33.78dBuV/m) + Cable Loss(-26.85) + Antenna Factor(45.25) =52.18 dBuV/m

WOSRT CASE 18GHz-26.5 GHz



WOSRT CASE 26.5GHz-40GHz



Note: the spurious emission above 18G is noise only

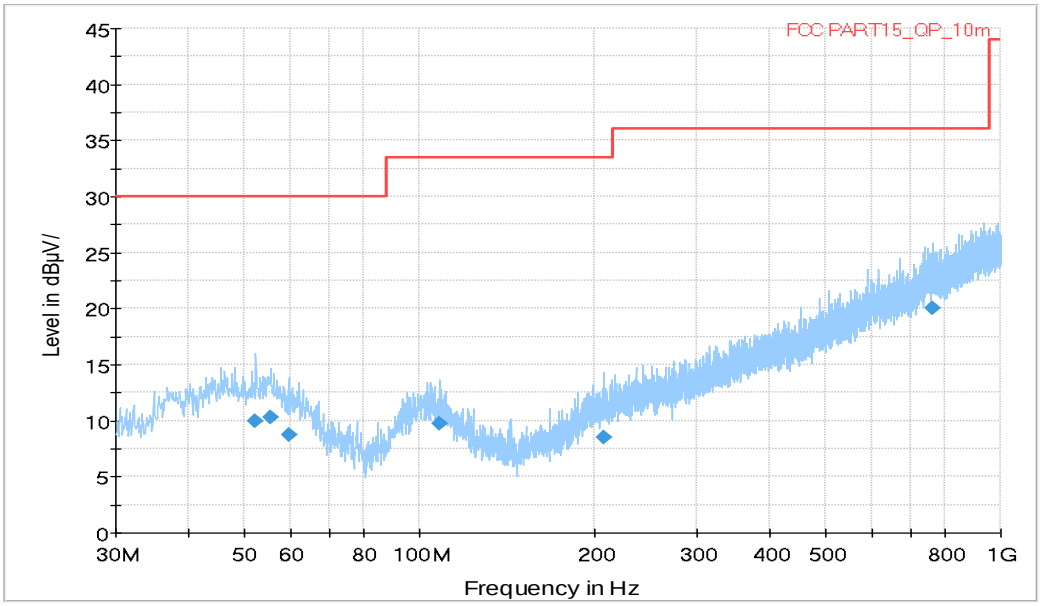
WOSRT CASE BELOW 1GHz

FCC Part 15C 30-1G Limit

Peak Preview Result

Final Result QPK

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b



Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
52.213000	9.9	125.0	H	93.0	-11.2	20.1	30.0
55.414000	10.3	175.0	V	45.0	-11.3	19.7	30.0
59.585000	8.7	275.0	H	-10.0	-11.9	21.3	30.0
108.279000	9.7	100.0	V	225.0	-12.6	23.8	33.5
207.995000	8.5	175.0	H	225.0	-11.5	25.0	33.5
764.678000	20.0	225.0	V	135.0	1.9	16.0	36.0

BELOW 30MHz

No emissions were found within 20dB of the limit below 30MHz.

A.8. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage（V）	Frequency（Hz）
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.08dB, k=2.

Measurement Result and limit:

Set.4: UT22a + AE2-1 + AE1-3

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. 82	Fig. 83	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.82	Fig.83	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.				

The measurement is made according to ANSI C63.10 .

Set.5: UT25a + AE2-2 + AE1-3

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	67 to 56	Fig. 84	/	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.84	/	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.				

The measurement is made according to ANSI C63.10 .

Set.6: UT26a + AE2-3 + AE1-3

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	68 to 56	Fig. 85	/	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.85	/	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.				

The measurement is made according to ANSI C63.10 .

Set.7: UT22a + AE2-4 + AE1-3

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	69 to 56	Fig. 86	/	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.86	/	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.				

The measurement is made according to ANSI C63.10 .

Set.8: UT25a + AE2-5 + AE1-3

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	70 to 56	Fig. 87	/	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.87	/	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.				

The measurement is made according to ANSI C63.10 .

Conclusion: PASS

Test graphs as below:

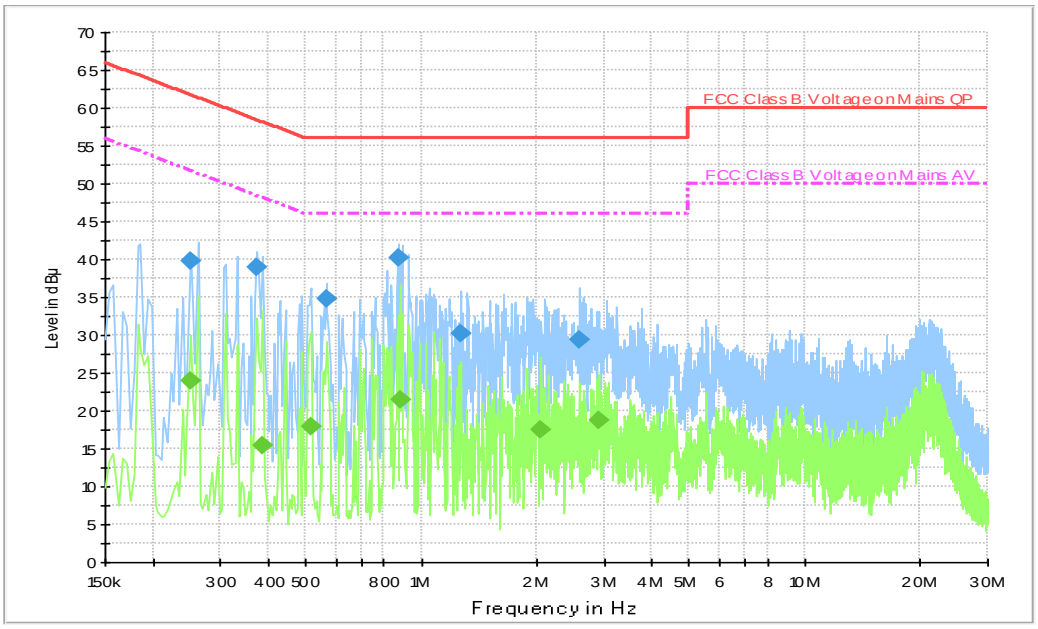


Fig. 82 AC Powerline Conducted Emission-802.11a (Set.4: UT22a + AE2-1 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.250000	39.9	2000.0	9.000	On	L1	19.7	21.9	61.8
0.374000	39.0	2000.0	9.000	On	L1	19.7	19.4	58.4
0.566000	34.8	2000.0	9.000	On	L1	19.7	21.2	56.0
0.870000	40.2	2000.0	9.000	On	N	19.6	15.8	56.0
1.270000	30.2	2000.0	9.000	On	L1	19.7	25.8	56.0
2.590000	29.5	2000.0	9.000	On	L1	19.6	26.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.250000	24.0	2000.0	9.000	On	L1	19.7	27.7	51.8
0.386000	15.5	2000.0	9.000	On	L1	19.7	32.7	48.1
0.514000	17.8	2000.0	9.000	On	N	19.7	28.2	46.0
0.882000	21.4	2000.0	9.000	On	L1	19.7	24.6	46.0
2.058000	17.5	2000.0	9.000	On	N	19.6	28.5	46.0
2.918000	18.7	2000.0	9.000	On	N	19.6	27.3	46.0

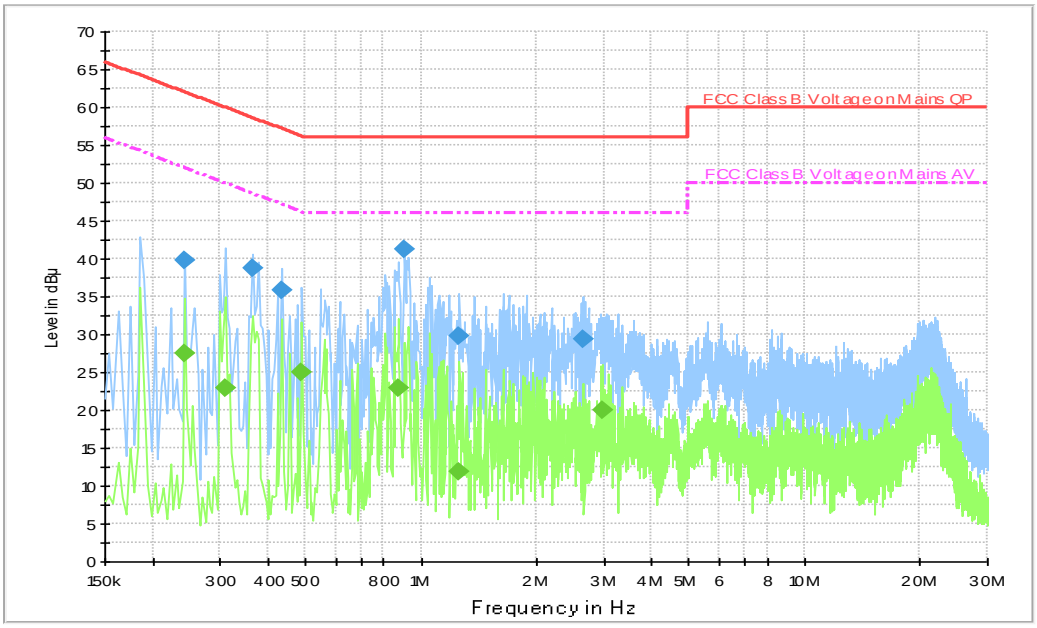


Fig. 83 AC Powerline Conducted Emission-Idle (Set.4: UT22a + AE2-1 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.242000	39.8	2000.0	9.000	On	L1	19.7	22.3	62.0
0.366000	38.8	2000.0	9.000	On	L1	19.7	19.8	58.6
0.434000	35.9	2000.0	9.000	On	L1	19.7	21.3	57.2
0.906000	41.2	2000.0	9.000	On	N	19.6	14.8	56.0
1.262000	29.7	2000.0	9.000	On	L1	19.7	26.3	56.0
2.658000	29.3	2000.0	9.000	On	L1	19.6	26.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.242000	27.5	2000.0	9.000	On	N	19.7	24.5	52.0
0.310000	23.0	2000.0	9.000	On	L1	19.7	27.0	50.0
0.490000	24.9	2000.0	9.000	On	N	19.7	21.2	46.2
0.874000	22.9	2000.0	9.000	On	N	19.6	23.1	46.0
1.262000	11.8	2000.0	9.000	On	L1	19.7	34.2	46.0
2.962000	20.1	2000.0	9.000	On	N	19.6	25.9	46.0

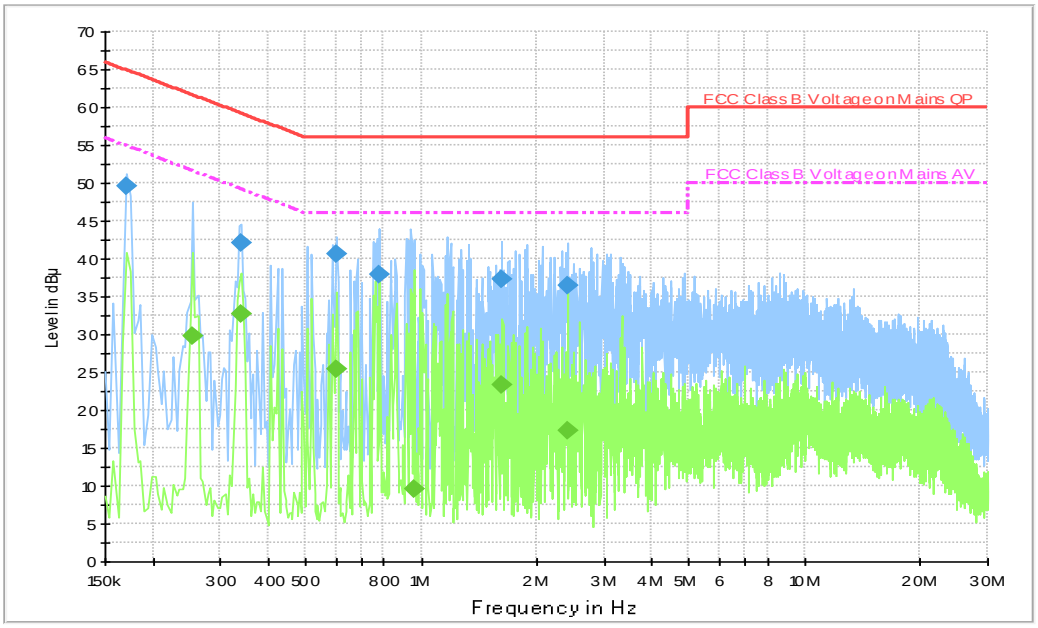


Fig. 84 AC Powerline Conducted Emission-802.11a (Set.5: UT25a + AE2-2 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.170000	49.5	1000.0	9.000	On	L1	19.7	15.4	65.0
0.338000	42.1	1000.0	9.000	On	N	19.7	17.2	59.3
0.598000	40.7	1000.0	9.000	On	L1	19.7	15.3	56.0
0.778000	38.0	1000.0	9.000	On	L1	19.7	18.0	56.0
1.622000	37.2	1000.0	9.000	On	L1	19.6	18.8	56.0
2.402000	36.4	1000.0	9.000	On	L1	19.6	19.6	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.254000	29.7	1000.0	9.000	On	L1	19.7	21.9	51.6
0.338000	32.8	1000.0	9.000	On	N	19.7	16.5	49.3
0.602000	25.4	1000.0	9.000	On	N	19.6	20.6	46.0
0.958000	9.6	1000.0	9.000	On	L1	19.6	36.4	46.0
1.630000	23.3	1000.0	9.000	On	N	19.6	22.7	46.0
2.402000	17.3	1000.0	9.000	On	L1	19.6	28.7	46.0

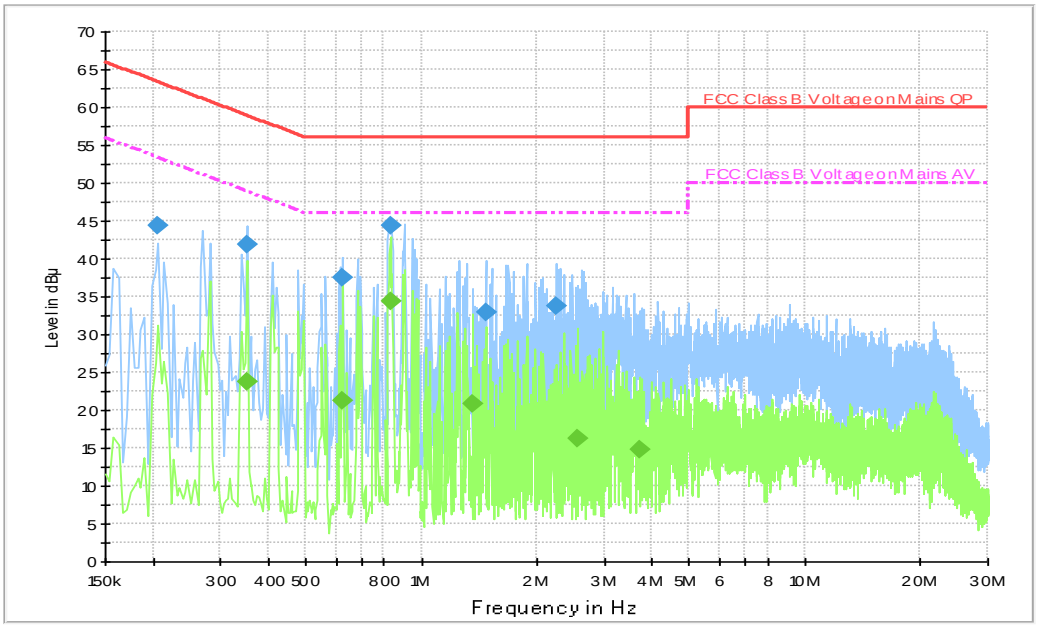


Fig. 85 AC Powerline Conducted Emission-802.11a (Set.6: UT26a + AE2-3 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.206000	44.5	1000.0	9.000	On	N	19.7	18.9	63.4
0.350000	41.8	1000.0	9.000	On	L1	19.7	17.2	59.0
0.626000	37.5	1000.0	9.000	On	L1	19.7	18.5	56.0
0.838000	44.3	1000.0	9.000	On	N	19.6	11.7	56.0
1.470000	32.9	1000.0	9.000	On	L1	19.7	23.1	56.0
2.242000	33.7	1000.0	9.000	On	L1	19.6	22.3	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.350000	23.7	1000.0	9.000	On	L1	19.7	25.3	49.0
0.626000	21.4	1000.0	9.000	On	L1	19.7	24.6	46.0
0.830000	34.5	1000.0	9.000	On	N	19.7	11.5	46.0
1.362000	20.8	1000.0	9.000	On	N	19.6	25.2	46.0
2.550000	16.2	1000.0	9.000	On	N	19.6	29.8	46.0
3.714000	14.7	1000.0	9.000	On	L1	19.6	31.3	46.0

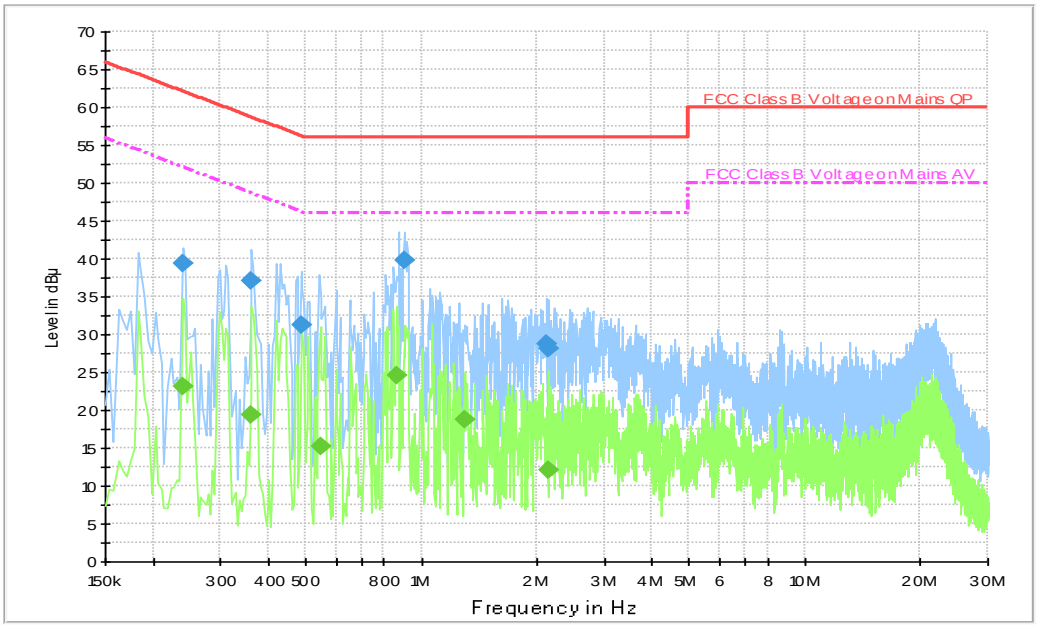


Fig. 86 AC Powerline Conducted Emission-802.11a (Set.7: UT22a + AE2-4 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.238000	39.4	1000.0	9.000	On	L1	19.7	22.7	62.2
0.362000	37.1	1000.0	9.000	On	L1	19.7	21.6	58.7
0.486000	31.3	1000.0	9.000	On	L1	19.7	24.9	56.2
0.902000	39.8	1000.0	9.000	On	N	19.6	16.2	56.0
2.114000	28.8	1000.0	9.000	On	L1	19.6	27.2	56.0
2.138000	28.1	1000.0	9.000	On	L1	19.6	27.9	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.238000	23.0	1000.0	9.000	On	L1	19.7	29.1	52.2
0.362000	19.4	1000.0	9.000	On	L1	19.7	29.3	48.7
0.546000	15.3	1000.0	9.000	On	N	19.7	30.7	46.0
0.866000	24.5	1000.0	9.000	On	N	19.6	21.5	46.0
1.302000	18.7	1000.0	9.000	On	N	19.6	27.3	46.0
2.138000	12.0	1000.0	9.000	On	L1	19.6	34.0	46.0

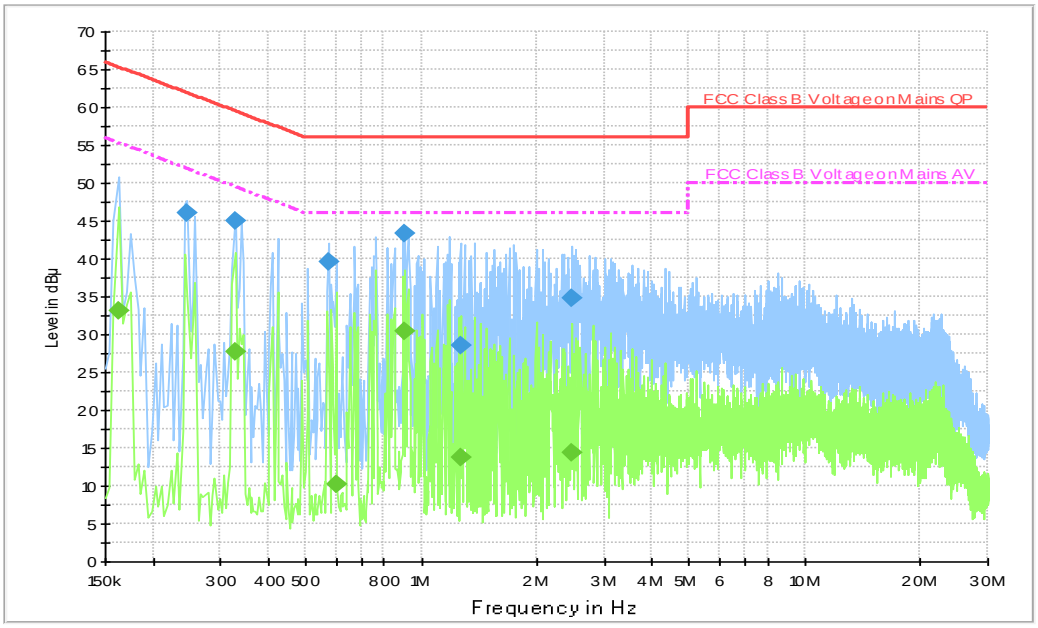


Fig. 87 AC Powerline Conducted Emission-802.11a (Set.8: UT25a + AE2-5 + AE1-3)

Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.246000	46.1	1000.0	9.000	On	L1	19.7	15.8	61.9
0.326000	45.0	1000.0	9.000	On	L1	19.7	14.5	59.6
0.574000	39.6	1000.0	9.000	On	L1	19.7	16.4	56.0
0.910000	43.4	1000.0	9.000	On	N	19.6	12.6	56.0
1.266000	28.6	1000.0	9.000	On	L1	19.7	27.4	56.0
2.466000	34.9	1000.0	9.000	On	L1	19.6	21.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dB µ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB µ
0.162000	33.2	1000.0	9.000	On	L1	19.8	22.2	55.4
0.326000	27.6	1000.0	9.000	On	L1	19.7	21.9	49.6
0.598000	10.1	1000.0	9.000	On	N	19.6	35.9	46.0
0.910000	30.4	1000.0	9.000	On	N	19.6	15.6	46.0
1.266000	13.7	1000.0	9.000	On	L1	19.7	32.3	46.0
2.466000	14.4	1000.0	9.000	On	L1	19.6	31.6	46.0

A.9. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Test Condition:

T min = 0 ℃ T nom = 26 ℃ T max = 35 ℃

V nom = 3.6 V V nom = 3.87 V V nom = 4.45 V

Measurement Limit:

Standard	Limit (ppm)
FCC 47 CFR Part 15.407 (g)	20

The measurement is made according to KDB789033 D02 .

Measurement Result:

Mode	Frequency	Test Condition		Result
802.11ac-VHT80	5210MHz	Tnom	Vnom	0.00
		Tmax	Vnom	14.99
		Tmin	Vnom	0.00
		Vmax	Tnom	0.00
		Vmin	Tnom	0.00
	5290MHz	Tnom	Vnom	0.00
		Tmax	Vnom	14.67
		Tmin	Vnom	3.78
		Vmax	Tnom	0.00
		Vmin	Tnom	0.00
	5530MHz	Tnom	Vnom	14.47
		Tmax	Vnom	14.78
		Tmin	Vnom	14.98
		Vmax	Tnom	0.00
		Vmin	Tnom	14.47
	5610MHz	Tnom	Vnom	0.00
		Tmax	Vnom	14.89
		Tmin	Vnom	0.00

		Vmax	Tnom	0.00
		Vmin	Tnom	0.00
	5690MHz	Tnom	Vnom	0.00
		Tmax	Vnom	7.04
		Tmin	Vnom	14.69
		Vmax	Tnom	14.06
		Vmin	Tnom	14.06

A.10. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

ANNEX B: EUT parameters

Disclaimer: The worse case and antenna gain 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 C: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

ilac-MRA

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Electromagnetic Compatibility & Telecommunications

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2022-10-01 through 2023-09-30
Effective Dates

For the National Voluntary Laboratory Accreditation Program

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