



**FCC PART 15  
TEST REPORT  
No. I21Z70160-EMC11**

**for**

**Samsung Electronics Co., Ltd.**

**Notebook PC**

**NP760XDA, NP762XDA**

**with**

**FCC ID: ZCANP760XDA**

**Hardware Version: REV1.0**

**Software Version: Windows10-Pro**

**Issued Date: 2021-06-04**

**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

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

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Description</b>	<b>Issue Date</b>
I21Z70160-EMC11	Rev.0	1st edition	2021-06-04

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## 1. TEST LABORATORY

### 1.1. Introduction & Accreditation

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

### 1.2. Testing Location

Location 1:CTTL(Huayuan North Road)

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

Location 2:CTTL(BDA)

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

### 1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

### 1.4. Project date

Testing Start Date: 2021-04-25

Testing End Date: 2021-05-30

### 1.5. Signature



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Li Yan

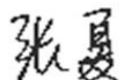
(Prepared this test report)



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Zhang Ying

(Reviewed this test report)



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Zhang Xia

Deputy Director of the laboratory

(Approved this test report)



## **2. CLIENT INFORMATION**

### **2.1 Applicant Information**

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Fax: /

### **2.2 Manufacturer Information**

Company Name: Samsung Electronics Co., Ltd.  
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Fax: /

### 3. PRODUCT INFORMATION

#### 3.1. About EUT

Description	Notebook PC
Model name	NP760XDA, NP762XDA
FCC ID	ZCANP760XDA

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

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
UT13a	2170160UT12a	REV1.0	Windows10-Pro
UT22a	2170160UT33a	REV1.0	Windows10-Pro

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

#### 3.3. Internal Identification of AE used during the test

AE ID*	Description		SN
AE1	Adapter	/	/
AE2	battery	/	/
AE1			
Model	A20-135P1A		
Manufacturer	Chicony Power Technology (Chong Qing) Co., Ltd.		
Length	/		
AE2			
Model	AA-PBAN6TI		
Manufacturer	SUNWODA Electronic Co., Ltd.		

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

### 3.4. General Description

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

The difference of the model name is only for different marketing purposes.

#### Antenna information

Item	Spec.	Type	Vendor	Vendor P/N	Sample under test
Antenna	Main antenna (Chain A)	PIFA	INPAQ	WA-F-LA-02-090	UT13a
	Auxiliary antenna (Chain B)	PIFA			
Antenna	Main antenna (Chain A)	PIFA	SPEED	F-0G-XZ-0272-000-00	UT22a
	Auxiliary antenna (Chain B)	PIFA			

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

Samples undergoing test were selected by the Client.

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

### 3.5. Test Configuration

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

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ax40 (40MHz channel bandwidth), 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) and 802.11ac160 & 802.11ax160 (160MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously(MIMO).

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

### 3.6. Interpretation of the Test Environment

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

#### Measurement Uncertainty

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

## 4. REFERENCE DOCUMENTS

### 4.1. Documents supplied by applicant

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

### 4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part15	FCC CFR 47, Part 15, Subpart C and E: 15.205 Restricted bands of operation; 15.209 Radiated emission limits, general requirements; 15.407 General technical requirements	2019
ANSI C63.10	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2013
UNII: KDB 789033 D02	General U-NII Test Procedures New Rules v02r01	2017-12

Note: The test methods have no deviation with standards.



## 5. SUMMARY OF TEST RESULTS

### 5.1. Summary of Test Results

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

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

Terms used in Verdict column

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

### 5.2. Statements

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

### 5.3. Test Conditions

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

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

Temperature	T nom	26°C
Voltage	V nom	4.0V
Humidity	H nom	20-75%

## 6. TEST EQUIPMENTS UTILIZED

### Radiated emission test system

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	Test Receiver	ESU26	100376	R&S	1 year	2021-09-04
2	BiLog Antenna	VULB9163	9163-482	Schwarzbeck	1 year	2021-11-04
3	Dual-Ridge Waveguide Horn Antenna	3117	00139065	ETS-Lindgren	1 year	2021-10-11
4	Dual-Ridge Waveguide Horn Antenna	3116	2663	ETS-Lindgren	1 year	2021-08-05
5	Analytical Spectrometer	FSV40	R&S	101047	1 year	2022-05-17
6	Loop Antenna	HFH2-Z2	829324/007	R&S	1 year	2021-12-10
7	Test Receiver	ESU26	100235	R&S	1 year	2022-02-23

### AC Powerline Conducted Emission

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101459	R&S	1 year	2022-03-16
2	Test Receiver	ESCI	100766	R&S	1 year	2022-03-09

## 7. Measurement Uncertainty

### Radiated Spurious Emission

(k=2)

Frequency Range	Uncertainty(dB)
9kHz-30MHz	/
$30\text{MHz} \leq f \leq 1\text{GHz}$	5.40
$1\text{GHz} \leq f \leq 18\text{GHz}$	4.32
$18\text{GHz} \leq f \leq 40\text{GHz}$	5.26

### AC Power-line Conducted Emission

Measurement Uncertainty: 3.10dB, k=2

## **ANNEX A: EUT parameters**

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

## **ANNEX B: Antenna Requirements**

According to FCC 47 CFR § 15.203, §15.407:

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

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

## **ANNEX C: Detailed Test Results**

### **C.1. Radiated Spurious Emission**

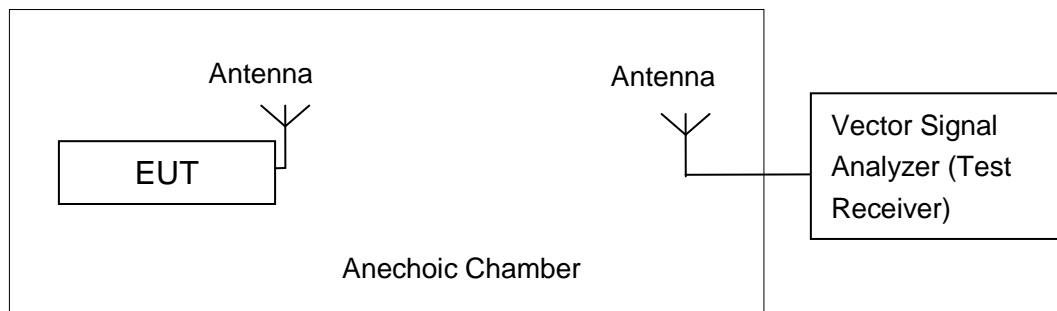
#### **Specification Reference**

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

#### **Method of Measurement**

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

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



#### **Measurement Limit**

<b>Standard</b>	<b>Limit</b>
FCC 47 CFR Part 15.407 RSS-247, 6.2	-27 dBm/MHz

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

Limit in restricted band:

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

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

### **Test settings**

Frequency of emission (MHz)	RBW/VBW
30-1000	100KHz/300KHz
1000-4000	1MHz/3MHz
4000-18000	1MHz/3MHz
18000-26500	1MHz/3MHz
26500-40000	1MHz/3MHz

### **Sample Calculation**

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

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

Where:

$E$  is the field strength in dB $\mu$ V/m

$D$  is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dbm

2. The measurement results are obtained as described below:

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

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

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

### **Test Notes**

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

### C.1.1 Radiated Spurious Emission- above 1GHz

#### INPAQ

#### 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)
5149.300	39.84	-23.27	34.26	28.85	54.00	14.16	V
5149.600	39.82	-23.27	34.26	28.83	54.00	14.18	V
10869.800	31.11	-29.86	37.95	23.02	54.00	22.89	H
15540.400	34.82	-24.49	40.15	19.16	54.00	19.18	H
17821.800	37.44	-22.46	41.54	18.36	54.00	16.56	V
17919.700	37.88	-22.66	41.52	19.02	54.00	16.12	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)
5147.850	39.76	-23.28	34.26	28.77	54.00	14.24	V
5352.150	39.92	-22.29	34.34	27.87	54.00	14.08	V
11071.100	31.11	-29.93	38.03	23.01	54.00	22.89	V
15570.100	34.87	-24.50	40.19	19.18	54.00	19.13	V
17824.000	37.49	-22.46	41.53	18.42	54.00	16.51	H
17937.300	37.60	-22.69	41.51	18.78	54.00	16.40	V

#### Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5143.500	39.43	-23.29	34.26	28.46	54.00	14.57	V
5354.250	39.92	-22.29	34.34	27.87	54.00	14.08	V
11765.200	32.24	-29.46	38.47	23.24	54.00	21.76	H
15719.700	34.45	-24.36	40.37	18.44	54.00	19.55	H
17895.570	37.54	-22.61	41.52	18.62	54.00	16.46	V
17975.800	37.30	-22.77	41.50	18.57	54.00	16.70	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)
5148.450	40.08	-23.28	34.26	29.10	54.00	13.92	V
5359.650	40.40	-22.29	34.35	28.35	54.00	13.60	V
10872.000	31.59	-29.86	37.95	23.51	54.00	22.41	H
15780.200	34.91	-24.20	40.44	18.67	54.00	19.09	V
17818.500	37.76	-22.45	41.54	18.67	54.00	16.24	V
17863.600	37.60	-22.54	41.53	18.61	54.00	16.40	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)
5148.750	39.79	-23.27	34.26	28.80	54.00	14.21	V
5351.700	40.34	-22.29	34.34	28.29	54.00	13.66	V
10892.900	31.47	-29.91	37.96	23.42	54.00	22.53	H
15839.600	35.45	-24.06	40.51	19.00	54.00	18.55	H
17826.200	37.73	-22.47	41.53	18.66	54.00	16.27	V
17925.200	37.81	-22.67	41.51	18.97	54.00	16.19	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)
5350.000	40.61	-22.29	34.34	28.56	54.00	13.39	V
5356.350	40.58	-22.29	34.34	28.53	54.00	13.42	V
10639.900	30.45	-29.30	37.86	21.89	54.00	23.55	H
15959.500	35.49	-23.82	40.65	18.66	54.00	18.51	H
17835.000	37.75	-22.48	41.53	18.70	54.00	16.25	V
17935.100	37.78	-22.69	41.51	18.96	54.00	16.22	V



## 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)
5459.850	38.36	-22.69	34.38	26.66	54.00	15.64	V
5460.000	38.39	-22.69	34.38	26.69	54.00	15.61	V
10999.600	32.10	-29.87	38.00	23.98	54.00	21.90	H
16499.600	36.74	-23.16	41.50	18.40	54.00	17.26	H
17720.600	37.97	-22.23	41.56	18.64	54.00	16.03	H
17821.800	37.89	-22.46	41.54	18.82	54.00	16.11	V

## Channel 120

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)
5440.950	38.44	-22.63	34.38	26.70	54.00	15.56	V
5454.600	38.25	-22.70	34.38	26.57	54.00	15.75	V
11199.800	31.62	-30.43	38.08	23.97	54.00	22.38	H
16799.900	37.02	-23.00	41.92	18.10	54.00	16.98	H
17710.700	38.02	-22.20	41.56	18.66	54.00	15.98	V
17907.600	38.20	-22.63	41.52	19.32	54.00	15.80	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)
5455.050	39.55	-22.70	34.38	27.87	48.30	8.75	V
5459.100	39.63	-22.69	34.38	27.94	48.30	8.67	V
11400.000	32.21	-29.72	38.16	23.76	48.30	16.09	H
17100.200	37.52	-23.04	42.08	18.48	48.30	10.78	V
17740.400	37.99	-22.27	41.55	18.71	48.30	10.31	H
17836.100	38.02	-22.49	41.53	18.97	48.30	10.28	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)
5389.650	40.21	-22.29	34.36	28.14	48.30	8.09	V
5441.550	40.07	-22.64	34.38	28.33	48.30	8.23	V
11439.600	31.91	-29.47	38.18	23.20	48.30	16.39	H
17159.600	37.34	-22.97	42.01	18.30	48.30	10.96	H
17730.500	37.96	-22.25	41.55	18.65	48.30	10.34	V
17919.700	38.30	-22.66	41.52	19.44	48.30	10.00	V

**802.11n-HT20**
**Channel 36**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.800	40.07	-23.27	34.26	29.08	54.00	13.93	V
5149.950	40.07	-23.27	34.26	29.08	54.00	13.93	V
10910.500	31.15	-29.95	37.96	23.14	54.00	22.85	H
15540.400	34.84	-24.49	40.15	19.18	54.00	19.16	H
17743.700	37.57	-22.28	41.55	18.30	54.00	16.43	V
17835.000	37.53	-22.48	41.53	18.48	54.00	16.47	V

**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)
5145.450	39.78	-23.28	34.26	28.81	54.00	14.22	V
5353.200	39.92	-22.29	34.34	27.87	54.00	14.08	V
11242.700	30.95	-30.38	38.10	23.23	54.00	23.05	H
15599.800	34.82	-24.52	40.22	19.12	54.00	19.18	H
17748.100	37.43	-22.29	41.55	18.17	54.00	16.57	V
17841.600	37.40	-22.50	41.53	18.36	54.00	16.60	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5144.700	39.43	-23.29	34.26	28.46	54.00	14.57	V
5352.300	39.93	-22.29	34.34	27.88	54.00	14.07	V
10961.100	30.99	-29.96	37.98	22.96	54.00	23.01	V
15719.700	34.52	-24.36	40.37	18.52	54.00	19.48	V
17912.000	37.72	-22.64	41.52	18.84	54.00	16.28	H
17950.500	37.45	-22.72	41.51	18.66	54.00	16.55	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)
5148.000	39.96	-23.28	34.26	28.98	54.00	14.04	V
5352.900	40.25	-22.29	34.34	28.20	54.00	13.75	V
10874.200	31.61	-29.87	37.95	23.53	54.00	22.39	V
15780.200	34.93	-24.20	40.44	18.69	54.00	19.07	H
17830.600	37.92	-22.48	41.53	18.86	54.00	16.08	V
17901.000	37.92	-22.62	41.52	19.02	54.00	16.08	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)
5147.250	39.86	-23.28	34.26	28.87	54.00	14.14	V
5351.700	40.30	-22.29	34.34	28.24	54.00	13.70	V
11027.100	31.86	-29.82	38.01	23.66	54.00	22.14	H
15839.600	35.66	-24.06	40.51	19.22	54.00	18.34	H
17824.000	37.85	-22.46	41.53	18.78	54.00	16.15	H
17896.600	37.98	-22.61	41.52	19.07	54.00	16.02	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)
5350.000	40.64	-22.29	34.34	28.59	54.00	13.36	V
5355.000	40.61	-22.29	34.34	28.55	54.00	13.39	V
10639.900	30.45	-29.30	37.86	21.90	54.00	23.55	V
15959.500	35.77	-23.82	40.65	18.94	54.00	18.23	V
17838.300	37.80	-22.49	41.53	18.76	54.00	16.20	H
17908.700	38.03	-22.64	41.52	19.15	54.00	15.97	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)
5458.500	38.51	-22.69	34.38	26.82	54.00	15.49	V
5460.000	38.58	-22.69	34.38	26.89	54.00	15.42	V
10999.600	32.13	-29.87	38.00	24.01	54.00	21.87	H
16499.600	36.64	-23.16	41.50	18.30	54.00	17.36	H
17765.700	37.76	-22.33	41.55	18.54	54.00	16.24	V
17954.900	37.93	-22.73	41.51	19.15	54.00	16.07	V

## Channel 120

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)
5458.500	39.51	-22.69	34.38	27.82	54.00	14.49	V
5459.850	39.57	-22.69	34.38	27.88	54.00	14.43	V
11199.800	31.62	-30.43	38.08	23.97	54.00	22.38	V
16799.900	36.93	-23.00	41.92	18.01	54.00	17.07	H
17712.900	38.01	-22.21	41.56	18.66	54.00	15.99	V
17832.800	38.07	-22.48	41.53	19.02	54.00	15.93	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)
5457.600	39.56	-22.70	34.38	27.87	48.30	8.74	V
5459.400	39.62	-22.69	34.38	27.93	48.30	8.68	V
11400.000	32.18	-29.72	38.16	23.73	48.30	16.12	H
17100.200	37.42	-23.04	42.08	18.38	48.30	10.88	V
17742.600	38.07	-22.28	41.55	18.80	48.30	10.23	H
17903.200	38.20	-22.63	41.52	19.31	48.30	10.10	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)
5385.300	40.27	-22.29	34.36	28.20	48.30	8.03	V
5423.400	40.09	-22.50	34.37	28.22	48.30	8.21	V
11439.600	31.89	-29.47	38.18	23.18	48.30	16.41	H
17159.600	37.38	-22.97	42.01	18.34	48.30	10.92	V
17837.200	38.10	-22.49	41.53	19.06	48.30	10.20	H
17917.500	38.27	-22.65	41.52	19.40	48.30	10.03	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)
5149.800	38.24	-23.27	34.26	27.25	54.00	15.76	V
5149.950	38.23	-23.27	34.26	27.24	54.00	15.77	V
11365.900	31.73	-29.91	38.15	23.49	54.00	22.27	V
15690.000	34.96	-24.44	40.33	19.06	54.00	19.04	H
17841.600	37.64	-22.50	41.53	18.60	54.00	16.36	V
17918.600	37.97	-22.66	41.52	19.11	54.00	16.03	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)
5146.950	39.84	-23.28	34.26	28.85	54.00	14.16	V
5352.000	40.19	-22.29	34.34	28.14	54.00	13.81	V
10925.900	31.39	-29.98	37.97	23.40	54.00	22.61	H
15570.100	35.06	-24.50	40.19	19.38	54.00	18.94	V
17836.100	37.82	-22.49	41.53	18.77	54.00	16.18	V
17912.000	37.91	-22.64	41.52	19.03	54.00	16.09	V

## 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)
5149.050	39.01	-23.27	34.26	28.02	54.00	14.99	V
5352.450	39.44	-22.29	34.34	27.39	54.00	14.56	V
10539.800	30.57	-29.55	37.82	22.30	54.00	23.43	H
15809.900	35.50	-24.12	40.47	19.15	54.00	18.50	H
17846.000	37.74	-22.51	41.53	18.71	54.00	16.26	V
17912.000	38.29	-22.64	41.52	19.41	54.00	15.71	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)
5350.000	40.93	-22.29	34.34	28.88	54.00	13.07	V
5353.350	40.57	-22.29	34.34	28.52	54.00	13.43	V
10620.100	31.14	-29.20	37.85	22.49	54.00	22.86	V
15929.800	35.77	-23.88	40.62	19.03	54.00	18.23	H
17826.200	38.02	-22.47	41.53	18.95	54.00	15.98	V
17936.200	38.19	-22.69	41.51	19.37	54.00	15.81	V

## 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)
5458.650	39.29	-22.69	34.38	27.60	54.00	14.71	V
5459.850	39.33	-22.69	34.38	27.64	54.00	14.67	V
11020.500	32.19	-29.83	38.01	24.02	54.00	21.81	V
16530.400	36.53	-23.21	41.54	18.20	54.00	17.47	H
17720.600	38.06	-22.23	41.56	18.73	54.00	15.94	V
17792.100	37.86	-22.39	41.54	18.71	54.00	16.14	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)
5458.050	38.88	-22.69	34.38	27.20	54.00	15.12	V
5459.400	38.89	-22.69	34.38	27.20	54.00	15.11	V
11180.000	31.70	-30.45	38.07	24.07	54.00	22.30	V
16770.200	37.15	-23.01	41.88	18.28	54.00	16.85	H
17706.300	38.05	-22.19	41.56	18.69	54.00	15.95	V
17903.200	38.34	-22.63	41.52	19.44	54.00	15.66	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)
5459.400	38.32	-22.69	34.38	26.63	48.30	9.98	V
5459.550	38.30	-22.69	34.38	26.61	48.30	10.00	V
11339.500	32.11	-30.03	38.14	24.00	48.30	16.19	V
17010.000	37.56	-23.02	42.19	18.40	48.30	10.73	H
17832.800	38.05	-22.48	41.53	19.00	48.30	10.25	V
17916.400	38.22	-22.65	41.52	19.35	48.30	10.08	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)
5389.500	39.08	-22.29	34.36	27.00	48.30	9.22	V
5403.750	39.07	-22.34	34.36	27.05	48.30	9.23	V
11419.800	32.22	-29.59	38.17	23.64	48.30	16.08	H
17129.900	37.28	-23.02	42.04	18.25	48.30	11.02	H
17745.900	38.09	-22.29	41.55	18.82	48.30	10.21	H
17841.600	38.02	-22.50	41.53	18.99	48.30	10.28	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)
5149.800	40.21	-23.27	34.26	29.22	54.00	13.79	V
5149.950	40.19	-23.27	34.26	29.20	54.00	13.81	V
10853.300	31.47	-29.82	37.94	23.35	54.00	22.53	H
15540.400	35.10	-24.49	40.15	19.44	54.00	18.90	V
17877.900	37.52	-22.57	41.52	18.56	54.00	16.48	H
17962.600	37.64	-22.75	41.51	18.88	54.00	16.36	V

## 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)
5146.950	40.03	-23.28	34.26	29.05	54.00	13.97	V
5354.250	40.09	-22.29	34.34	28.04	54.00	13.91	V
11020.500	31.83	-29.83	38.01	23.65	54.00	22.17	H
15599.800	35.06	-24.52	40.22	19.36	54.00	18.94	H
17837.200	37.77	-22.49	41.53	18.73	54.00	16.23	H
17924.891	37.89	-22.67	41.51	19.05	54.00	16.11	V



## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5145.150	39.77	-23.28	34.26	28.80	54.00	14.23	V
5353.350	40.13	-22.29	34.34	28.08	54.00	13.87	V
11225.100	31.03	-30.40	38.09	23.34	54.00	22.97	H
15719.700	34.77	-24.36	40.37	18.76	54.00	19.23	V
17835.000	37.82	-22.48	41.53	18.77	54.00	16.18	H
17919.700	37.97	-22.66	41.52	19.11	54.00	16.03	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)
5148.000	39.97	-23.28	34.26	28.98	54.00	14.03	V
5356.800	40.35	-22.29	34.34	28.30	54.00	13.65	V
10520.000	30.73	-29.65	37.81	22.57	54.00	23.27	H
15780.200	34.93	-24.20	40.44	18.69	54.00	19.07	V
17827.300	37.87	-22.47	41.53	18.80	54.00	16.13	H
17919.700	38.10	-22.66	41.52	19.24	54.00	15.90	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)
5147.250	39.83	-23.28	34.26	28.85	54.00	14.17	V
5355.000	40.41	-22.29	34.34	28.35	54.00	13.59	V
10559.600	30.41	-29.45	37.82	22.04	54.00	23.59	H
15839.600	35.58	-24.06	40.51	19.13	54.00	18.42	V
17817.400	37.75	-22.45	41.54	18.66	54.00	16.25	V
17909.800	38.18	-22.64	41.52	19.30	54.00	15.82	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)
5351.100	40.79	-22.29	34.34	28.74	54.00	13.21	V
5354.100	40.86	-22.29	34.34	28.81	54.00	13.14	V
10639.900	30.65	-29.30	37.86	22.10	54.00	23.35	H
15959.500	35.75	-23.82	40.65	18.92	54.00	18.25	V
17833.900	37.86	-22.48	41.53	18.81	54.00	16.14	V
17899.900	38.19	-22.62	41.52	19.29	54.00	15.81	V

## 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)
5459.250	40.16	-22.69	34.38	28.46	54.00	13.84	V
5459.700	40.16	-22.69	34.38	28.47	54.00	13.84	V
10999.600	32.14	-29.87	38.00	24.01	54.00	21.86	V
16499.600	36.78	-23.16	41.50	18.45	54.00	17.22	V
17718.400	38.12	-22.22	41.56	18.79	54.00	15.88	H
17909.800	38.35	-22.64	41.52	19.47	54.00	15.65	V

## Channel 120

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)
5457.750	39.81	-22.70	34.38	28.12	54.00	14.19	V
5459.400	39.87	-22.69	34.38	28.17	54.00	14.13	V
11199.800	31.79	-30.43	38.08	24.13	54.00	22.21	H
16799.900	37.10	-23.00	41.92	18.18	54.00	16.90	V
17828.400	38.19	-22.47	41.53	19.13	54.00	15.81	V
17906.500	38.31	-22.63	41.52	19.42	54.00	15.69	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)
5455.650	39.92	-22.70	34.38	28.24	48.30	8.38	V
5459.100	39.80	-22.69	34.38	28.11	48.30	8.50	V
11400.000	32.34	-29.72	38.16	23.90	48.30	15.96	V
17100.200	37.55	-23.04	42.08	18.51	48.30	10.75	V
17736.000	38.06	-22.26	41.55	18.77	48.30	10.24	H
17985.700	38.12	-22.79	41.50	19.41	48.30	10.18	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)
5390.400	40.15	-22.29	34.36	28.08	48.30	8.15	V
5418.300	40.09	-22.46	34.37	28.18	48.30	8.21	V
11439.600	32.13	-29.47	38.18	23.42	48.30	16.17	H
17159.600	37.51	-22.97	42.01	18.47	48.30	10.79	V
17836.100	38.13	-22.49	41.53	19.08	48.30	10.17	V
17989.000	38.23	-22.79	41.50	19.52	48.30	10.07	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)
5149.800	41.03	-23.27	34.26	30.04	54.00	12.97	V
5149.950	40.93	-23.27	34.26	29.94	54.00	13.07	V
11683.800	32.43	-29.49	38.39	23.53	54.00	21.57	V
15570.100	35.17	-24.50	40.19	19.49	54.00	18.83	V
17820.700	37.74	-22.46	41.54	18.66	54.00	16.26	H
17888.900	37.77	-22.60	41.52	18.84	54.00	16.23	V

## 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)
5146.950	39.86	-23.28	34.26	28.88	54.00	14.14	V
5353.200	40.29	-22.29	34.34	28.24	54.00	13.71	V
11814.700	32.95	-29.30	38.52	23.73	54.00	21.05	H
15629.000	35.27	-24.54	40.26	19.55	54.00	18.73	H
17828.400	37.69	-22.47	41.53	18.63	54.00	16.31	H
17897.700	37.85	-22.61	41.52	18.94	54.00	16.15	V

## 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)
5146.500	40.00	-23.28	34.26	29.02	54.00	14.00	V
5352.900	40.46	-22.29	34.34	28.41	54.00	13.54	V
10539.800	30.54	-29.55	37.82	22.28	54.00	23.46	H
15809.900	35.53	-24.12	40.47	19.18	54.00	18.47	V
17835.000	37.95	-22.48	41.53	18.90	54.00	16.05	H
17928.500	38.13	-22.68	41.51	19.29	54.00	15.87	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)
5350.000	40.57	-22.29	34.34	28.52	54.00	13.43	V
5354.700	40.12	-22.29	34.34	28.07	54.00	13.88	V
10620.100	31.08	-29.20	37.85	22.42	54.00	22.92	V
15929.800	35.70	-23.88	40.62	18.97	54.00	18.30	H
17791.000	37.76	-22.39	41.54	18.61	54.00	16.24	V
17885.600	37.79	-22.59	41.52	18.86	54.00	16.21	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)
5457.000	39.21	-22.70	34.38	27.52	54.00	14.79	V
5460.150	39.13	-22.69	34.38	27.44	54.00	14.87	V
11020.500	32.25	-29.83	38.01	24.07	54.00	21.75	V
16530.400	36.53	-23.21	41.54	18.20	54.00	17.47	V
17709.600	38.07	-22.20	41.56	18.71	54.00	15.93	V
17833.900	38.07	-22.48	41.53	19.02	54.00	15.93	V

## 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)
5457.150	38.83	-22.70	34.38	27.14	54.00	15.17	V
5459.700	38.73	-22.69	34.38	27.04	54.00	15.27	V
11180.000	31.78	-30.45	38.07	24.16	54.00	22.22	H
16770.200	37.07	-23.01	41.88	18.20	54.00	16.93	H
17721.700	38.03	-22.23	41.56	18.71	54.00	15.97	V
17908.700	38.31	-22.64	41.52	19.43	54.00	15.69	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)
5457.900	38.77	-22.70	34.38	27.09	48.30	9.53	V
5459.400	38.78	-22.69	34.38	27.09	48.30	9.52	V
11339.500	32.20	-30.03	38.14	24.09	48.30	16.10	H
17010.000	37.59	-23.02	42.19	18.42	48.30	10.71	V
17736.000	38.13	-22.26	41.55	18.84	48.30	10.17	V
17918.600	38.21	-22.66	41.52	19.35	48.30	10.09	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)
5395.950	39.09	-22.29	34.36	27.01	48.30	9.21	V
5406.300	38.95	-22.36	34.36	26.95	48.30	9.35	V
11419.800	32.35	-29.59	38.17	23.77	48.30	15.95	H
17129.900	37.39	-23.02	42.04	18.36	48.30	10.91	V
17740.400	38.13	-22.27	41.55	18.86	48.30	10.16	H
17825.100	38.07	-22.46	41.53	19.00	48.30	10.23	H

**802.11ax-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5141.850	39.3	-23.3	34.3	28.30	54.0	14.7	V
5146.350	39.6	-23.3	34.3	28.54	54.0	14.4	V
10419.900	31.4	-29.3	37.5	23.19	54.0	22.6	V
15629.500	35.3	-24.5	40.4	19.47	54.0	18.7	V
17745.900	38.0	-22.3	41.2	19.07	54.0	16.0	H
17903.200	38.3	-22.6	41.3	19.60	54.0	15.7	V

## Channel 58

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5357.700	38.6	-22.3	34.5	26.42	54.0	15.4	V
5360.000	38.6	-22.3	34.5	26.42	54.0	15.4	V
10580.500	30.9	-29.3	37.6	22.60	54.0	23.1	H
15870.400	35.6	-24.0	40.6	18.96	54.0	18.4	H
17829.500	38.0	-22.5	41.3	19.23	54.0	16.0	V
17912.000	38.1	-22.6	41.3	19.49	54.0	15.9	H

**Channel 106**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5459.700	39.8	-22.7	34.6	27.93	54.0	14.2	V
5460.000	39.9	-22.7	34.6	27.98	54.0	14.1	V
11060.100	32.2	-29.9	38.0	24.05	54.0	21.8	V
16156.400	36.5	-23.3	41.0	18.78	54.0	17.5	H
17765.700	37.8	-22.3	41.3	18.87	54.0	16.2	V
17912.000	38.4	-22.6	41.3	19.79	54.0	15.6	V

**Channel 138**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5380.200	39.1	-22.3	34.5	26.86	54.0	14.9	V
5403.900	39.2	-22.3	34.5	27.02	54.0	14.8	V
11380.200	32.1	-29.8	38.4	23.57	54.0	21.9	H
16035.400	36.3	-23.6	40.8	19.05	54.0	17.7	V
17760.200	37.8	-22.3	41.3	18.85	54.0	16.2	H
17909.800	38.4	-22.6	41.3	19.78	54.0	15.6	V

**802.11ax-HT160**
**Channel 50**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5137.050	38.6	-23.3	34.3	27.60	54.0	15.4	V
5149.950	38.9	-23.3	34.3	27.83	54.0	15.1	V
10500.200	30.8	-29.7	37.6	22.90	54.0	23.2	V
15750.500	35.6	-24.3	40.5	19.35	54.0	18.4	H
17712.900	38.1	-22.2	41.2	19.08	54.0	15.9	H
17835.000	38.0	-22.5	41.3	19.22	54.0	16.0	V

**Channel 114**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5457.750	40.6	-22.7	34.6	28.78	54.0	13.4	V
5459.100	40.6	-22.7	34.6	28.77	54.0	13.4	V
11140.400	31.6	-30.4	38.1	23.89	54.0	22.4	V
16709.700	36.8	-23.1	41.5	18.40	54.0	17.2	H
17740.400	38.0	-22.3	41.2	19.06	54.0	16.0	H
17910.900	38.2	-22.6	41.3	19.60	54.0	15.8	H

**802.11ac-HT80**
**Channel 42**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5140.950	38.2	-23.3	34.3	27.16	54.0	15.8	V
5146.350	38.3	-23.3	34.3	27.26	54.0	15.7	V
10419.900	31.5	-29.3	37.5	23.24	54.0	22.5	V
15629.500	35.3	-24.5	40.4	19.51	54.0	18.7	V
17714.000	38.1	-22.2	41.2	19.03	54.0	15.9	V
17837.200	38.1	-22.5	41.3	19.29	54.0	15.9	V

**Channel 58**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5359.500	38.8	-22.3	34.5	26.55	54.0	15.2	V
5364.800	38.5	-22.3	34.5	26.32	54.0	15.5	V
10580.500	31.1	-29.3	37.6	22.76	54.0	22.9	V
15870.400	35.6	-24.0	40.6	18.95	54.0	18.4	V
17719.500	37.9	-22.2	41.2	18.88	54.0	16.1	V
17827.300	38.0	-22.5	41.3	19.17	54.0	16.0	H



**Channel 106**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5457.000	39.7	-22.7	34.6	27.87	54.0	14.3	V
5459.850	39.8	-22.7	34.6	27.96	54.0	14.2	V
11060.100	32.0	-29.9	38.0	23.90	54.0	22.0	V
16163.000	36.3	-23.3	41.0	18.57	54.0	17.7	V
17747.000	38.0	-22.3	41.2	19.00	54.0	16.0	V
17931.800	38.3	-22.7	41.3	19.71	54.0	15.7	H

**Channel 138**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5396.700	39.2	-22.3	34.5	26.92	54.0	14.8	V
5417.400	39.0	-22.5	34.5	26.93	54.0	15.0	V
11380.200	32.1	-29.8	38.4	23.54	54.0	21.9	V
16155.300	36.3	-23.3	41.0	18.56	54.0	17.7	V
17740.400	37.9	-22.3	41.2	18.96	54.0	16.1	V
17916.400	38.4	-22.7	41.3	19.82	54.0	15.6	V

**802.11ac-HT160**
**Channel 50**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5148.750	39.2	-23.3	34.3	28.16	54.0	14.8	V
5149.950	39.3	-23.3	34.3	28.23	54.0	14.7	V
10500.200	31.0	-29.7	37.6	23.05	54.0	23.0	V
15750.500	35.5	-24.3	40.5	19.26	54.0	18.5	V
17718.400	38.0	-22.2	41.2	19.00	54.0	16.0	H
17830.600	38.1	-22.5	41.3	19.27	54.0	15.9	V

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5457.150	41.3	-22.7	34.6	29.43	54.0	12.7	V
5458.050	41.2	-22.7	34.6	29.36	54.0	12.8	V
11140.400	31.7	-30.4	38.1	23.98	54.0	22.3	H
16709.700	36.9	-23.1	41.5	18.50	54.0	17.1	H
17743.700	38.0	-22.3	41.2	19.03	54.0	16.0	V
17905.400	38.2	-22.6	41.3	19.59	54.0	15.8	H

**PEAK 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)
5116.935	54.18	-23.38	34.25	43.31	74.00	19.82	V
5139.720	54.25	-23.30	34.26	43.29	74.00	19.75	V
10359.950	45.23	-29.67	37.63	37.27	68.30	23.07	H
15539.850	52.19	-24.49	40.15	36.53	74.00	21.81	V
16830.150	57.05	-23.00	41.96	38.09	68.30	11.25	V
17024.300	56.26	-23.03	42.17	37.12	68.30	12.04	V

## 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)
5173.600	53.01	-23.21	34.27	41.95	68.30	15.29	H
5252.400	52.94	-23.20	34.30	41.84	68.30	15.36	H
10379.750	44.94	-29.50	37.66	36.78	68.30	23.36	H
15701.000	52.29	-24.41	40.34	36.35	74.00	21.71	V
16952.800	56.61	-23.01	42.13	37.48	68.30	11.69	V
17223.950	56.84	-22.87	41.93	37.78	68.30	11.45	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)
5207.400	53.04	-23.27	34.29	42.02	74.00	20.96	V
5282.000	55.08	-22.82	34.32	43.58	74.00	18.92	H
10479.850	44.08	-29.57	37.78	35.87	68.30	24.22	H
15720.250	51.27	-24.36	40.37	35.26	74.00	22.73	H
16860.400	55.60	-23.00	42.01	36.60	68.30	12.70	V
17056.200	57.46	-23.03	42.13	38.36	68.30	10.84	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)
5223.800	54.70	-23.33	34.29	43.74	68.30	13.60	H
5299.400	54.55	-22.64	34.32	42.87	68.30	13.75	V
10520.000	46.66	-29.65	37.81	38.50	68.30	21.64	V
15780.200	51.02	-24.20	40.44	34.78	74.00	22.98	H
16731.700	56.51	-23.09	41.83	37.77	68.30	11.79	V
17061.700	56.72	-23.03	42.13	37.63	68.30	11.58	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)
5249.200	54.14	-23.24	34.30	43.07	68.30	14.16	H
5312.800	54.02	-22.53	34.33	42.22	68.30	14.28	H
10560.150	45.26	-29.45	37.82	36.88	68.30	23.04	V
15840.150	53.55	-24.06	40.51	37.10	74.00	20.45	H
16882.950	56.94	-23.00	42.04	37.91	68.30	11.36	H
17101.300	56.77	-23.04	42.08	37.74	68.30	11.52	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)
5350.407	54.90	-22.29	34.34	42.85	74.00	19.10	V
5353.404	55.11	-22.29	34.34	43.06	74.00	18.89	V
10639.900	44.69	-29.30	37.86	36.14	74.00	29.31	H
15960.050	52.28	-23.82	40.65	35.44	74.00	21.72	V
16969.850	56.20	-23.02	42.16	37.05	68.30	12.10	V
17104.600	56.39	-23.04	42.07	37.36	68.30	11.91	V

## 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)
5401.195	54.08	-22.32	34.36	42.04	74.00	19.92	H
5439.070	54.41	-22.62	34.38	42.65	74.00	19.59	H
11000.150	45.89	-29.87	38.00	37.76	74.00	28.11	H
16500.150	54.09	-23.16	41.50	35.76	68.30	14.21	H
16792.200	57.34	-23.00	41.91	38.42	68.30	10.96	H
17253.100	57.35	-22.82	41.89	38.27	68.30	10.95	V

## Channel 120

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)
5551.400	53.39	-22.61	34.50	41.50	68.30	14.91	V
5640.000	52.87	-22.84	34.66	41.05	68.30	15.43	V
11199.800	46.15	-30.43	38.08	38.50	74.00	27.85	H
16799.900	53.58	-23.00	41.92	34.65	68.30	14.72	V
17014.950	57.20	-23.02	42.18	38.05	68.30	11.10	V
17275.100	57.10	-22.78	41.87	38.02	68.30	11.20	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)
5727.337	55.86	-22.98	34.82	44.02	68.30	12.44	H
5728.425	55.58	-22.98	34.82	43.75	68.30	12.72	V
11400.000	46.87	-29.72	38.16	38.43	74.00	27.13	V
17100.200	54.49	-23.04	42.08	35.45	68.30	13.81	H
16865.900	56.96	-23.00	42.01	37.95	68.30	11.34	V
17060.050	56.54	-23.03	42.13	37.45	68.30	11.76	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)
5694.800	54.60	-22.90	34.76	42.73	68.30	13.70	V
5753.200	54.59	-22.93	34.87	42.66	68.30	13.71	H
11440.150	46.36	-29.46	38.18	37.65	74.00	27.64	V
17160.150	54.16	-22.97	42.01	35.12	68.30	14.14	H
17286.650	57.13	-22.77	41.85	38.04	68.30	11.17	H
17625.450	57.26	-22.07	41.57	37.76	68.30	11.04	V

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5122.938	54.62	-23.36	34.25	43.72	74.00	19.38	H
5137.847	54.74	-23.30	34.26	43.79	74.00	19.26	H
10359.950	44.95	-29.67	37.63	36.99	68.30	23.34	H
15539.850	51.14	-24.49	40.15	35.48	74.00	22.86	V
17005.600	56.21	-23.02	42.19	37.04	68.30	12.09	H
17373.550	56.44	-22.98	41.75	37.67	68.30	11.86	V

## 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)
5172.400	54.24	-23.21	34.27	43.18	68.30	14.06	V
5246.000	53.36	-23.28	34.30	42.34	68.30	14.94	V
10400.100	45.32	-29.32	37.68	36.95	68.30	22.98	V
15599.800	52.14	-24.52	40.22	36.44	74.00	21.86	H
17051.250	56.94	-23.03	42.14	37.83	68.30	11.36	V
17600.150	57.23	-22.24	41.58	37.89	68.30	11.07	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)
5180.200	52.93	-23.19	34.27	41.85	74.00	21.07	V
5290.800	52.43	-22.71	34.32	40.82	74.00	21.57	H
10479.850	45.35	-29.57	37.78	37.15	68.30	22.95	V
15720.250	51.65	-24.36	40.37	35.64	74.00	22.35	V
16935.200	57.26	-23.01	42.11	38.16	68.30	11.04	V
17269.600	55.83	-22.79	41.87	36.75	68.30	12.47	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)
5230.800	54.71	-23.36	34.29	43.78	68.30	13.59	V
5291.400	54.60	-22.71	34.32	42.98	68.30	13.70	H
10520.000	44.28	-29.65	37.81	36.12	68.30	24.02	H
15780.200	50.57	-24.20	40.44	34.33	68.30	17.73	V
16743.800	55.69	-23.06	41.84	36.91	68.30	12.61	V
16955.000	56.77	-23.01	42.14	37.64	68.30	11.53	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)
5225.000	55.49	-23.34	34.29	44.54	68.30	12.81	V
5305.400	54.22	-22.59	34.32	42.48	68.30	14.08	V
10560.150	44.75	-29.45	37.82	36.37	68.30	23.55	V
15840.150	51.76	-24.06	40.51	35.31	74.00	22.24	H
16855.450	57.17	-23.00	42.00	38.18	68.30	11.13	H
17291.600	56.74	-22.78	41.85	37.68	68.30	11.56	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)
5353.080	54.98	-22.29	34.34	42.93	74.00	19.02	H
5377.596	55.27	-22.29	34.35	43.21	74.00	18.73	H
10639.900	45.37	-29.30	37.86	36.81	68.30	22.93	H
15960.050	51.87	-23.82	40.65	35.04	68.30	16.43	H
16882.950	55.98	-23.00	42.04	36.94	68.30	12.32	H
17586.950	57.41	-22.33	41.58	38.16	68.30	10.89	V

## 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)
5375.620	54.45	-22.29	34.35	42.39	74.00	19.55	H
5423.185	54.36	-22.50	34.37	42.49	74.00	19.64	H
1100.150	45.42	-37.18	27.13	55.48	74.00	28.58	V
16500.150	53.61	-23.16	41.50	35.28	68.30	14.69	H
17076.000	56.97	-23.03	42.11	37.90	68.30	11.33	H
17694.750	57.20	-22.17	41.56	37.80	68.30	11.10	V

## Channel 120

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)
5566.000	53.30	-22.63	34.52	41.42	68.30	14.99	H
5655.600	53.12	-22.84	34.69	41.27	68.30	15.18	H
11199.800	45.87	-30.43	38.08	38.22	74.00	28.13	V
16799.900	54.92	-23.00	41.92	36.00	68.30	13.38	V
17508.850	57.10	-22.84	41.60	38.35	68.30	11.20	H
17648.000	57.44	-22.06	41.57	37.92	68.30	10.86	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)
5725.988	56.11	-22.98	34.82	44.27	68.30	12.19	V
5791.200	55.68	-22.83	34.93	43.57	68.30	12.62	H
11400.000	46.17	-29.72	38.16	37.73	74.00	27.83	V
17100.200	55.78	-23.04	42.08	36.74	68.30	12.52	V
16682.200	57.17	-23.19	41.76	38.61	68.30	11.13	V
17666.700	57.70	-22.10	41.57	38.23	68.30	10.60	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)
5683.600	54.00	-22.87	34.74	42.12	68.30	14.30	V
5761.600	54.74	-22.92	34.88	42.78	68.30	13.56	H
11440.150	45.58	-29.46	38.18	36.86	74.00	28.42	H
17160.150	54.68	-22.97	42.01	35.64	68.30	13.62	V
16785.050	57.35	-23.00	41.90	38.44	68.30	10.95	H
17506.100	57.04	-22.86	41.60	38.31	68.30	11.26	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)
5146.895	54.93	-23.28	34.26	43.95	74.00	19.07	V
5149.870	55.28	-23.27	34.26	44.29	74.00	18.72	V
10379.750	45.59	-29.50	37.66	37.42	68.30	22.71	V
15570.100	50.68	-24.50	40.19	35.00	68.30	17.62	H
16831.800	57.40	-23.00	41.97	38.43	68.30	10.90	H
17129.350	57.93	-23.02	42.04	38.90	68.30	10.37	V

## 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)
5175.200	52.91	-23.21	34.27	41.84	74.00	21.09	V
5300.400	53.49	-22.63	34.32	41.80	74.00	20.51	V
10460.005	44.30	-29.49	37.75	36.03	68.30	24.00	V
15690.000	50.77	-24.44	40.33	34.88	68.30	17.53	H
16627.750	56.83	-23.31	41.68	38.45	68.30	11.47	V
17137.050	57.10	-23.01	42.03	38.07	68.30	11.20	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)
5227.600	55.83	-23.35	34.29	44.89	74.00	18.17	H
5315.000	54.62	-22.52	34.33	42.81	74.00	19.38	H
10539.800	44.92	-29.55	37.82	36.65	68.30	23.38	H
15809.900	51.40	-24.12	40.47	35.05	74.00	22.60	H
17343.300	57.12	-22.91	41.79	38.24	68.30	11.18	H
17686.500	57.30	-22.15	41.56	37.88	68.30	11.00	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)
5350.785	56.91	-22.29	34.34	44.86	74.00	17.09	H
5354.200	56.18	-22.29	34.34	44.13	74.00	17.82	V
10620.100	45.81	-29.20	37.85	37.15	74.00	28.19	H
15929.800	51.75	-23.88	40.62	35.01	74.00	22.25	H
17106.800	57.00	-23.04	42.07	37.97	68.30	11.30	H
17663.950	58.33	-22.09	41.57	38.86	68.30	9.97	V

## 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)
5385.310	55.27	-22.29	34.36	43.20	74.00	18.73	V
5435.770	55.17	-22.59	34.38	43.39	74.00	18.83	H
11019.950	45.54	-29.83	38.01	37.36	74.00	28.46	V
16529.850	53.97	-23.21	41.54	35.64	68.30	14.33	H
17221.750	56.85	-22.87	41.93	37.79	68.30	11.45	V
17585.850	57.45	-22.33	41.58	38.20	68.30	10.85	V

## 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)
5512.000	53.61	-22.63	34.42	41.81	68.30	14.69	H
5668.800	53.90	-22.84	34.71	42.02	68.30	14.40	H
11180.000	45.47	-30.45	38.07	37.84	74.00	28.53	V
16770.200	53.35	-23.01	41.88	34.48	68.30	14.95	V
17129.900	56.68	-23.02	42.04	37.65	68.30	11.62	H
17495.100	56.73	-22.93	41.61	38.06	68.30	11.57	V

## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5726.125	55.27	-22.98	34.82	43.43	68.30	13.03	V
5817.875	55.20	-22.63	34.98	42.85	68.30	13.10	H
11340.050	46.21	-30.03	38.14	38.10	74.00	27.79	V
17010.000	55.38	-23.02	42.19	36.22	68.30	12.92	V
17066.650	57.64	-23.03	42.12	38.55	68.30	10.66	H
17425.250	56.92	-23.10	41.69	38.33	68.30	11.38	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)
5675.800	54.55	-22.85	34.73	42.67	68.30	13.75	H
5744.000	57.21	-22.95	34.85	45.31	68.30	11.09	V
11419.800	46.45	-29.59	38.17	37.87	74.00	27.55	V
16703.650	57.03	-23.15	41.79	38.39	68.30	11.27	V
17129.900	54.63	-23.02	42.04	35.61	68.30	13.67	H
17612.250	56.98	-22.16	41.58	37.56	68.30	11.32	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)
5111.335	54.11	-23.40	34.25	43.27	74.00	19.89	H
5140.665	54.28	-23.30	34.26	43.31	74.00	19.72	V
10359.950	46.54	-29.67	37.63	38.58	68.30	21.76	H
15539.850	51.64	-24.49	40.15	35.98	74.00	22.36	V
16768.000	55.35	-23.01	41.88	36.49	68.30	12.95	V
17154.100	56.45	-22.98	42.01	37.42	68.30	11.85	H

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5162.000	52.21	-23.24	34.27	41.18	68.30	16.09	V
5262.800	53.04	-23.06	34.31	41.79	68.30	15.26	H
10400.100	44.18	-29.32	37.68	35.81	68.30	24.12	H
15599.800	51.78	-24.52	40.22	36.08	74.00	22.22	V
16800.450	56.77	-23.00	41.92	37.85	68.30	11.53	V
16951.700	56.74	-23.01	42.13	37.62	68.30	11.55	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)
5191.800	53.68	-23.20	34.28	42.61	74.00	20.32	V
5302.200	53.40	-22.62	34.32	41.70	74.00	20.60	H
10479.850	44.27	-29.57	37.78	36.06	68.30	24.03	H
15720.250	52.03	-24.36	40.37	36.02	68.30	16.27	V
17003.950	57.25	-23.02	42.20	38.08	68.30	11.05	H
17515.450	57.86	-22.80	41.60	39.06	68.30	10.44	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)
5231.000	54.67	-23.36	34.29	43.74	68.30	13.62	H
5291.200	54.39	-22.71	34.32	42.78	68.30	13.91	V
10520.000	45.27	-29.65	37.81	37.11	68.30	23.03	H
15780.200	51.18	-24.20	40.44	34.94	74.00	22.82	H
17597.400	57.36	-22.26	41.58	38.03	68.30	10.94	V
17697.500	56.35	-22.17	41.56	36.97	68.30	11.95	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)
5255.200	54.75	-23.16	34.30	43.60	68.30	13.55	V
5315.200	54.58	-22.51	34.33	42.77	68.30	13.72	H
10560.150	44.37	-29.45	37.82	35.99	68.30	23.93	V
15840.150	51.76	-24.06	40.51	35.31	74.00	22.24	V
16957.750	56.25	-23.01	42.14	37.12	68.30	12.05	V
17678.800	56.60	-22.13	41.56	37.17	68.30	11.70	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)
5351.757	54.93	-22.29	34.34	42.88	74.00	19.07	H
5382.321	55.01	-22.29	34.35	42.94	74.00	18.99	H
10639.900	44.01	-29.30	37.86	35.46	74.00	29.99	V
15960.050	52.42	-23.82	40.65	35.59	74.00	21.58	V
17616.650	57.51	-22.13	41.58	38.06	68.30	10.79	H
17630.950	57.04	-22.04	41.57	37.50	68.30	11.26	V

## 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)
5352.175	54.43	-22.29	34.34	42.38	74.00	19.57	V
5384.995	54.42	-22.29	34.36	42.35	74.00	19.58	V
11000.150	46.14	-29.87	38.00	38.01	74.00	27.86	H
16500.150	52.95	-23.16	41.50	34.61	68.30	15.35	H
16820.250	57.07	-23.00	41.95	38.11	68.30	11.23	V
17637.000	57.28	-22.03	41.57	37.74	68.30	11.02	H

## Channel 120

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)
5542.600	53.41	-22.61	34.48	41.54	68.30	14.89	H
5664.400	53.40	-22.84	34.70	41.54	68.30	14.90	V
11199.800	45.92	-30.43	38.08	38.26	74.00	28.08	V
16799.900	53.59	-23.00	41.92	34.67	68.30	14.71	H
17038.050	57.46	-23.03	42.15	38.34	68.30	10.84	H
17617.750	57.43	-22.12	41.58	37.98	68.30	10.87	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)
5725.525	56.30	-22.98	34.82	44.46	68.30	12.00	H
5758.913	55.76	-22.92	34.88	43.81	68.30	12.54	V
11400.000	45.88	-29.72	38.16	37.43	74.00	28.12	V
17100.200	54.81	-23.04	42.08	35.77	68.30	13.49	H
17100.750	57.12	-23.04	42.08	38.09	68.30	11.17	H
17497.300	57.80	-22.92	41.60	39.12	68.30	10.50	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)
5683.200	54.27	-22.87	34.74	42.40	68.30	14.03	V
5772.400	55.10	-22.90	34.90	43.10	68.30	13.20	H
11440.150	46.44	-29.46	38.18	37.73	68.30	21.86	H
17160.150	54.59	-22.97	42.01	35.55	68.30	13.71	V
16818.600	57.01	-23.00	41.95	38.06	68.30	11.29	H
17582.000	56.95	-22.36	41.58	37.72	68.30	11.35	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)
5128.730	55.03	-23.33	34.25	44.11	74.00	18.97	V
5148.943	55.27	-23.27	34.26	44.29	74.00	18.73	V
10379.750	44.52	-29.50	37.66	36.36	68.30	23.78	V
15570.100	50.98	-24.50	40.19	35.30	68.30	17.32	V
16747.100	55.71	-23.06	41.85	36.91	68.30	12.59	H
17054.000	57.18	-23.03	42.13	38.08	68.30	11.12	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)
5161.600	53.14	-23.24	34.27	42.11	74.00	20.86	H
5315.800	53.45	-22.51	34.33	41.63	74.00	20.55	H
10460.050	45.08	-29.49	37.75	36.82	68.30	23.22	H
15690.000	50.81	-24.44	40.33	34.91	68.30	17.49	H
16970.950	56.51	-23.02	42.16	37.37	68.30	11.79	H
17088.100	56.32	-23.04	42.09	37.27	68.30	11.98	V

## 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)
5222.200	55.23	-23.33	34.29	44.27	74.00	18.77	H
5325.200	54.60	-22.43	34.33	42.70	74.00	19.40	V
10539.800	45.56	-29.55	37.82	37.30	68.30	22.74	V
15809.900	51.33	-24.12	40.47	34.98	74.00	22.67	H
17621.050	56.96	-22.10	41.58	37.49	68.30	11.34	H
17696.950	57.50	-22.17	41.56	38.11	68.30	10.80	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)
5352.985	55.69	-22.29	34.34	43.64	74.00	18.31	H
5378.311	55.58	-22.29	34.35	43.51	74.00	18.42	H
10620.100	46.04	-29.20	37.85	37.38	74.00	27.96	H
15929.800	51.52	-23.88	40.62	34.78	74.00	22.48	V
16922.000	56.76	-23.01	42.09	37.68	68.30	11.54	V
17641.400	56.88	-22.04	41.57	37.35	68.30	11.42	V

## 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)
5395.075	55.09	-22.29	34.36	43.01	74.00	18.91	H
5458.045	54.82	-22.69	34.38	43.13	74.00	19.18	V
11019.950	46.23	-29.83	38.01	38.06	74.00	27.77	V
16529.850	53.47	-23.21	41.54	35.14	68.30	14.83	V
16999.000	57.30	-23.02	42.20	38.12	68.30	11.00	V
17267.400	57.77	-22.80	41.88	38.69	68.30	10.53	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)
5520.800	53.71	-22.63	34.44	41.90	68.30	14.59	H
5646.600	53.24	-22.84	34.67	41.41	68.30	15.06	H
11180.000	46.24	-30.45	38.07	38.61	74.00	27.76	H
16770.200	54.17	-23.01	41.88	35.30	68.30	14.13	V
16995.700	56.97	-23.02	42.19	37.79	68.30	11.33	H
17668.900	57.25	-22.11	41.57	37.79	68.30	11.05	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)
5726.538	55.36	-22.98	34.82	43.52	68.30	12.94	V
5737.700	56.56	-22.96	34.84	44.69	68.30	11.74	H
11340.050	46.07	-30.03	38.14	37.96	74.00	27.93	H
16785.050	56.65	-23.00	41.90	37.74	68.30	11.65	V
17010.000	54.57	-23.02	42.19	35.40	68.30	13.73	V
17497.300	57.10	-22.92	41.60	38.41	68.30	11.20	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)
5673.800	54.45	-22.84	34.72	42.57	68.30	13.85	H
5761.000	55.04	-22.92	34.88	43.08	68.30	13.26	V
11419.800	45.94	-29.59	38.17	37.37	68.30	22.36	H
16908.250	56.62	-23.01	42.07	37.56	68.30	11.68	V
17129.900	54.18	-23.02	42.04	35.15	68.30	14.12	V
17665.600	57.08	-22.10	41.57	37.61	68.30	11.22	V

**802.11ax-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5145.198	53.6	-23.3	34.3	42.60	74.0	20.4	H
5147.140	54.0	-23.3	34.3	42.91	74.0	20.0	V
10419.900	44.7	-29.3	37.5	36.49	68.3	23.6	H
15630.050	51.5	-24.5	40.4	35.64	74.0	22.5	V
17511.050	57.0	-22.8	41.2	38.66	68.3	11.3	H
17657.900	57.2	-22.1	41.2	38.06	68.3	11.1	V

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5352.486	54.2	-22.3	34.5	41.96	74.0	19.9	V
5353.499	53.9	-22.3	34.5	41.73	74.0	20.1	V
10579.950	44.5	-29.3	37.6	36.17	68.3	23.8	V
15869.850	51.8	-24.0	40.6	35.14	74.0	22.2	V
16948.950	56.7	-23.0	41.7	38.02	68.3	11.6	H
17692.000	57.3	-22.2	41.2	38.19	68.3	11.0	V

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5450.980	57.6	-22.7	34.6	45.75	74.0	16.4	H
5453.530	57.2	-22.7	34.6	45.32	74.0	16.8	H
11060.100	46.6	-29.9	38.0	38.49	74.0	27.4	H
16589.800	53.9	-23.3	41.5	35.79	68.3	14.4	V
16791.100	56.7	-23.0	41.6	38.14	68.3	11.6	H
17501.700	57.1	-22.9	41.2	38.77	68.3	11.2	V

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5621.600	54.5	-22.8	34.8	42.57	68.3	13.8	H
5764.000	55.7	-22.9	34.9	43.69	68.3	12.6	H
11380.200	46.0	-29.8	38.4	37.53	74.0	28.0	H
17069.950	54.9	-23.0	41.6	36.28	68.3	13.4	V
17228.900	56.9	-22.9	41.5	38.24	68.3	11.5	H
17502.800	57.4	-22.9	41.2	39.06	68.3	10.9	V

**802.11ax-HT160**

## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5146.195	54.1	-23.3	34.3	43.03	68.3	14.2	H
5149.327	54.3	-23.3	34.3	43.27	68.3	14.0	V
10500.200	45.2	-29.7	37.6	37.23	68.3	23.1	H
15749.950	51.5	-24.3	40.5	35.25	74.0	22.5	H
16771.300	56.6	-23.0	41.6	38.00	68.3	11.7	V
17506.100	56.8	-22.9	41.2	38.48	68.3	11.5	H

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5448.460	58.4	-22.7	34.6	46.57	68.3	9.9	V
5449.045	58.6	-22.7	34.6	46.77	68.3	9.7	H
11139.850	45.2	-30.4	38.1	37.52	74.0	28.8	H
16710.250	54.3	-23.1	41.5	35.87	68.3	14.0	V
16811.450	57.0	-23.0	41.6	38.44	68.3	11.3	V
17104.600	57.7	-23.0	41.6	39.11	68.3	10.6	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5145.513	53.3	-23.3	34.3	42.30	74.0	20.7	H
5149.765	53.1	-23.3	34.3	42.05	74.0	20.9	V
10419.900	44.9	-29.3	37.5	36.71	68.3	23.4	V
15630.050	51.4	-24.5	40.4	35.58	74.0	22.6	H
16942.350	56.9	-23.0	41.7	38.25	68.3	11.4	V
17537.450	57.3	-22.7	41.2	38.78	68.3	11.0	H

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5366.891	53.4	-22.3	34.5	41.19	74.0	20.6	V
5368.200	54.5	-22.3	34.5	42.32	74.0	19.5	H
10579.950	45.3	-29.3	37.6	37.02	68.3	23.0	H
15869.850	51.9	-24.0	40.6	35.22	74.0	22.1	H
17097.450	56.8	-23.0	41.6	38.26	68.3	11.5	V
17300.950	57.0	-22.8	41.4	38.39	68.3	11.3	H

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5451.550	57.9	-22.7	34.6	46.07	74.0	16.1	H
5452.735	58.2	-22.7	34.6	46.34	74.0	15.8	H
11060.100	45.5	-29.9	38.0	37.42	74.0	28.5	V
16589.800	54.0	-23.3	41.5	35.86	68.3	14.3	H
17162.900	56.8	-23.0	41.5	38.23	68.3	11.5	V
17351.550	57.1	-22.9	41.3	38.66	68.3	11.2	V

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5614.200	55.5	-22.8	34.7	43.62	74.0	18.5	V
5761.400	57.4	-22.9	34.9	45.35	74.0	16.6	V
11380.200	47.0	-29.8	38.4	38.44	74.0	27.0	V
17069.950	55.3	-23.0	41.6	36.73	68.3	13.0	H
17071.050	57.0	-23.0	41.6	38.41	68.3	11.3	H
17483.550	57.1	-23.0	41.2	38.93	68.3	11.2	H

**802.11ac-HT160**

## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5146.615	54.0	-23.3	34.3	42.97	68.3	14.3	H
5148.890	54.9	-23.3	34.3	43.81	68.3	13.4	H
10500.000	44.3	-29.7	37.6	36.40	68.3	24.0	V
15749.950	51.7	-24.3	40.5	35.44	74.0	22.3	V
16917.600	56.7	-23.0	41.7	38.03	68.3	11.6	V
17652.950	57.5	-22.1	41.2	38.37	68.3	10.8	V

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5447.335	58.7	-22.7	34.6	46.80	68.3	9.6	H
5448.775	59.2	-22.7	34.6	47.30	68.3	9.1	V
11139.850	45.5	-30.4	38.1	37.78	74.0	28.5	V
16710.250	54.6	-23.1	41.5	36.20	68.3	13.7	H
17256.950	56.9	-22.8	41.4	38.26	68.3	11.4	V
17698.050	56.9	-22.2	41.2	37.87	68.3	11.4	H

## SPEED

### 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)
5145.800	38.41	-23.28	34.26	27.44	54.00	15.59	V
5150.000	38.39	-23.27	34.26	27.40	54.00	15.61	V
11019.400	32.14	-29.83	38.01	23.96	54.00	21.86	V
15540.400	35.33	-24.49	40.15	19.67	54.00	18.67	H
17742.600	38.00	-22.28	41.55	18.73	54.00	16.00	V
17837.200	37.99	-22.49	41.53	18.95	54.00	16.01	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)
5140.800	40.09	-23.30	34.26	29.12	54.00	13.91	V
5149.200	40.17	-23.27	34.26	29.18	54.00	13.83	V
11042.500	31.70	-29.79	38.02	23.47	54.00	22.30	H
15599.800	35.30	-24.52	40.22	19.60	54.00	18.70	H
17821.800	37.86	-22.46	41.54	18.78	54.00	16.14	V
17937.300	37.94	-22.69	41.51	19.12	54.00	16.06	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)
5146.800	38.98	-23.28	34.26	28.00	54.00	15.02	V
5107.000	38.75	-23.42	34.24	27.92	54.00	15.25	V
11038.100	31.82	-29.79	38.02	23.60	54.00	22.18	H
15690.000	35.28	-24.44	40.33	19.39	54.00	18.72	H
17776.700	37.73	-22.36	41.54	18.55	54.00	16.27	H
17829.500	37.99	-22.47	41.53	18.93	54.00	16.01	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)
5149.600	38.95	-23.27	34.26	27.96	54.00	15.05	V
5351.000	41.21	-22.29	34.34	29.16	54.00	12.79	V
11002.900	32.10	-29.87	38.00	23.96	54.00	21.90	H
15780.200	35.19	-24.20	40.44	18.94	54.00	18.81	H
17828.400	38.12	-22.47	41.53	19.06	54.00	15.88	V
17885.600	38.20	-22.59	41.52	19.27	54.00	15.80	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)
5149.600	38.74	-23.27	34.26	27.75	54.00	15.26	V
5352.000	40.96	-22.29	34.34	28.91	54.00	13.04	V
10985.300	31.90	-29.90	37.99	23.81	54.00	22.10	V
15839.600	35.87	-24.06	40.51	19.42	54.00	18.13	V
17859.200	37.97	-22.53	41.53	18.97	54.00	16.03	V
17975.800	38.07	-22.77	41.50	19.34	54.00	15.93	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)
5350.000	42.56	-22.29	34.34	30.51	54.00	11.44	V
5364.600	42.51	-22.29	34.35	30.45	54.00	11.49	V
10639.900	30.92	-29.30	37.86	22.36	54.00	23.08	H
15959.500	35.96	-23.82	40.65	19.13	54.00	18.04	H
17906.500	38.46	-22.63	41.52	19.57	54.00	15.54	V
17938.400	38.39	-22.70	41.51	19.58	54.00	15.61	V

## 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)
5449.000	38.75	-22.70	34.38	27.07	54.00	15.25	V
5460.000	38.67	-22.69	34.38	26.98	54.00	15.33	V
11000.700	33.11	-29.87	38.00	24.98	54.00	20.89	V
17569.000	37.85	-22.44	41.59	18.71	54.00	16.15	H
17829.500	37.96	-22.47	41.53	18.90	54.00	16.04	H
17908.700	38.28	-22.64	41.52	19.40	54.00	15.72	V

## Channel 120

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)
5440.000	38.91	-22.63	34.38	27.16	54.00	15.09	V
5457.000	38.80	-22.70	34.38	27.12	54.00	15.20	V
11199.800	35.01	-30.43	38.08	27.36	54.00	18.99	V
17835.000	37.92	-22.48	41.53	18.87	54.00	16.08	H
17905.400	38.08	-22.63	41.52	19.19	54.00	15.92	V
17962.600	37.76	-22.75	41.51	19.00	54.00	16.24	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)
5439.800	38.94	-22.63	34.38	27.19	48.30	9.36	V
5459.000	38.76	-22.69	34.38	27.07	48.30	9.54	V
11400.000	32.30	-29.72	38.16	23.85	48.30	16.00	V
17809.700	37.58	-22.43	41.54	18.47	48.30	10.72	H
17863.600	37.75	-22.54	41.53	18.77	48.30	10.55	V
17953.800	37.84	-22.73	41.51	19.06	48.30	10.46	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)
5387.200	40.25	-22.29	34.36	28.18	54.00	13.75	V
5418.600	40.06	-22.46	34.37	28.15	54.00	13.94	V
11439.600	32.13	-29.47	38.18	23.42	54.00	21.87	V
17824.000	38.09	-22.46	41.53	19.02	54.00	15.91	H
17887.800	38.12	-22.59	41.52	19.19	54.00	15.88	V
17920.800	38.25	-22.66	41.52	19.40	54.00	15.75	H

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5145.000	38.52	-23.28	34.26	27.55	54.00	15.48	V
5150.000	38.34	-23.27	34.26	27.35	54.00	15.66	V
11137.100	31.71	-30.35	38.06	24.00	54.00	22.29	V
15540.400	35.20	-24.49	40.15	19.54	54.00	18.80	V
17815.200	37.85	-22.44	41.54	18.76	54.00	16.15	V
17930.700	38.33	-22.68	41.51	19.50	54.00	15.67	V

## 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)
5145.200	39.38	-23.28	34.26	28.40	54.00	14.62	V
5148.400	39.48	-23.28	34.26	28.49	54.00	14.52	V
11096.400	31.75	-30.09	38.04	23.80	54.00	22.25	V
15599.800	35.25	-24.52	40.22	19.55	54.00	18.75	H
17831.700	38.11	-22.48	41.53	19.05	54.00	15.89	V
17928.500	38.34	-22.68	41.51	19.51	54.00	15.66	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)
5144.800	39.08	-23.29	34.26	28.11	54.00	14.92	V
5150.000	38.98	-23.27	34.26	27.99	54.00	15.02	V
10874.200	31.68	-29.87	37.95	23.60	54.00	22.32	H
15719.700	35.00	-24.36	40.37	19.00	54.00	19.00	H
17818.500	37.85	-22.45	41.54	18.76	54.00	16.15	H
17949.400	38.20	-22.72	41.51	19.41	54.00	15.80	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)
5150.000	39.05	-23.27	34.26	28.05	54.00	14.95	V
5358.000	40.78	-22.29	34.35	28.73	54.00	13.22	V
10682.800	30.77	-29.53	37.87	22.43	54.00	23.23	V
15780.200	35.16	-24.20	40.44	18.91	54.00	18.84	V
17835.000	38.12	-22.48	41.53	19.07	54.00	15.88	V
17928.500	38.28	-22.68	41.51	19.44	54.00	15.72	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)
5148.400	39.00	-23.28	34.26	28.02	54.00	15.00	V
5352.400	40.96	-22.29	34.34	28.91	54.00	13.04	V
10876.400	31.87	-29.87	37.95	23.79	54.00	22.13	V
15839.600	35.81	-24.06	40.51	19.36	54.00	18.19	V
17767.900	37.95	-22.34	41.55	18.74	54.00	16.05	V
17872.400	37.92	-22.56	41.53	18.96	54.00	16.08	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)
5350.000	42.53	-22.29	34.34	30.49	54.00	11.47	V
5362.200	42.50	-22.29	34.35	30.44	54.00	11.50	V
10639.900	30.96	-29.30	37.86	22.41	54.00	23.04	H
15959.500	35.86	-23.82	40.65	19.03	54.00	18.14	H
17775.600	37.78	-22.35	41.54	18.59	54.00	16.22	V
17879.000	37.94	-22.58	41.52	18.99	54.00	16.06	V

## 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)
5457.000	39.18	-22.70	34.38	27.50	54.00	14.82	V
5460.000	39.12	-22.69	34.38	27.42	54.00	14.88	V
11007.000	32.92	-29.86	38.00	24.77	54.00	21.08	V
17721.700	37.96	-22.23	41.56	18.64	54.00	16.04	H
17783.300	37.61	-22.37	41.54	18.44	54.00	16.39	H
17902.000	38.16	-22.62	41.52	19.27	54.00	15.84	V

## Channel 120

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)
5440.000	39.06	-22.63	34.38	27.31	54.00	14.94	V
5459.600	38.79	-22.69	34.38	27.10	54.00	15.21	V
11199.800	34.77	-30.43	38.08	27.12	54.00	19.23	V
17833.900	37.99	-22.48	41.53	18.94	54.00	16.01	V
17902.100	38.08	-22.62	41.52	19.18	54.00	15.92	H
17953.800	38.01	-22.73	41.51	19.23	54.00	15.99	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)
5438.800	38.91	-22.62	34.38	27.15	48.30	9.39	V
5457.200	38.71	-22.70	34.38	27.02	48.30	9.59	V
11400.000	32.25	-29.72	38.16	23.80	48.30	16.05	V
17807.500	37.65	-22.43	41.54	18.54	48.30	10.65	H
17883.400	37.93	-22.58	41.52	18.99	48.30	10.37	V
17936.200	38.01	-22.69	41.51	19.19	48.30	10.29	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)
5395.200	40.29	-22.29	34.36	28.21	54.00	13.71	V
5421.800	39.97	-22.49	34.37	28.08	54.00	14.03	V
11439.600	32.12	-29.47	38.18	23.42	54.00	21.88	H
17825.100	38.11	-22.46	41.53	19.04	54.00	15.89	H
17868.000	37.87	-22.55	41.53	18.90	54.00	16.13	H
17928.500	38.26	-22.68	41.51	19.42	54.00	15.74	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)
5146.200	39.56	-23.28	34.26	28.58	54.00	14.44	V
5150.000	39.78	-23.27	34.26	28.79	54.00	14.22	V
11238.300	31.71	-30.39	38.10	24.00	54.00	22.29	V
15570.100	35.50	-24.50	40.19	19.82	54.00	18.50	V
17760.200	37.99	-22.32	41.55	18.76	54.00	16.01	H
17928.500	38.34	-22.68	41.51	19.50	54.00	15.66	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)
5146.600	39.15	-23.28	34.26	28.16	54.00	14.85	V
5150.000	39.08	-23.27	34.26	28.09	54.00	14.92	V
11020.500	32.22	-29.83	38.01	24.04	54.00	21.78	V
15690.000	35.34	-24.44	40.33	19.45	54.00	18.66	V
17742.600	38.11	-22.28	41.55	18.83	54.00	15.89	H
17928.500	38.36	-22.68	41.51	19.52	54.00	15.64	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)
5150.000	38.82	-23.27	34.26	27.83	54.00	15.18	V
5352.200	40.65	-22.29	34.34	28.59	54.00	13.35	V
10886.300	31.73	-29.90	37.96	23.67	54.00	22.27	H
15809.900	35.65	-24.12	40.47	19.30	54.00	18.35	H
17835.000	38.13	-22.48	41.53	19.08	54.00	15.87	V
17910.900	38.28	-22.64	41.52	19.40	54.00	15.72	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)
5350.200	41.09	-22.29	34.34	29.04	54.00	12.91	V
5352.600	41.05	-22.29	34.34	29.00	54.00	12.95	V
10620.100	31.16	-29.20	37.85	22.50	54.00	22.84	V
15929.800	35.77	-23.88	40.62	19.03	54.00	18.23	H
17876.800	38.01	-22.57	41.52	19.06	54.00	15.99	V
17956.000	38.10	-22.73	41.51	19.33	54.00	15.90	V

## 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)
5448.200	39.56	-22.69	34.38	27.87	54.00	14.44	V
5460.000	39.34	-22.69	34.38	27.65	54.00	14.66	V
11021.600	32.81	-29.83	38.01	24.63	54.00	21.19	H
17833.900	38.04	-22.48	41.53	18.99	54.00	15.96	V
17894.400	38.09	-22.61	41.52	19.18	54.00	15.91	H
17963.700	37.93	-22.75	41.51	19.17	54.00	16.07	V

## 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)
5441.000	38.91	-22.64	34.38	27.16	54.00	15.09	V
5459.600	38.82	-22.69	34.38	27.13	54.00	15.18	V
11184.400	33.26	-30.44	38.07	25.63	54.00	20.74	V
17817.400	37.77	-22.45	41.54	18.68	54.00	16.23	H
17869.100	37.81	-22.56	41.53	18.84	54.00	16.19	V
17919.700	38.16	-22.66	41.52	19.30	54.00	15.84	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)
5442.600	38.98	-22.65	34.38	27.25	48.30	9.32	V
5459.400	38.76	-22.69	34.38	27.07	48.30	9.54	V
11339.500	32.19	-30.03	38.14	24.08	48.30	16.11	H
17822.900	37.95	-22.46	41.54	18.87	48.30	10.35	H
17885.600	37.99	-22.59	41.52	19.05	48.30	10.31	H
17953.800	37.98	-22.73	41.51	19.20	48.30	10.32	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)
5385.400	39.29	-22.29	34.36	27.22	54.00	14.71	V
5403.400	38.95	-22.34	34.36	26.93	54.00	15.05	V
11419.800	32.39	-29.59	38.17	23.81	54.00	21.61	H
17833.900	38.14	-22.48	41.53	19.09	54.00	15.86	H
17888.900	38.15	-22.60	41.52	19.22	54.00	15.85	H
17936.200	38.26	-22.69	41.51	19.44	54.00	15.74	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)
5144.200	38.40	-23.29	34.26	27.43	54.00	15.60	V
5150.000	38.43	-23.27	34.26	27.44	54.00	15.57	V
10977.600	31.57	-29.92	37.99	23.50	54.00	22.43	H
15540.400	35.12	-24.49	40.15	19.45	54.00	18.88	H
17827.300	38.04	-22.47	41.53	18.98	54.00	15.96	V
17913.100	38.33	-22.65	41.52	19.46	54.00	15.67	V

## 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)
5143.200	40.11	-23.29	34.26	29.14	54.00	13.89	V
5148.600	40.39	-23.28	34.26	29.40	54.00	13.61	V
10993.000	31.82	-29.89	38.00	23.71	54.00	22.18	V
15599.800	35.27	-24.52	40.22	19.57	54.00	18.73	V
17829.500	38.08	-22.47	41.53	19.02	54.00	15.92	H
17923.000	38.33	-22.67	41.52	19.48	54.00	15.67	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)
5142.200	39.96	-23.29	34.26	28.99	54.00	14.04	V
5146.400	40.12	-23.28	34.26	29.14	54.00	13.88	V
10918.200	31.72	-29.96	37.97	23.72	54.00	22.28	H
15719.700	35.04	-24.36	40.37	19.03	54.00	18.96	V
17825.100	37.99	-22.46	41.53	18.92	54.00	16.01	V
17938.400	38.24	-22.70	41.51	19.43	54.00	15.76	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)
5150.000	40.00	-23.27	34.26	29.01	54.00	14.00	V
5356.000	41.55	-22.29	34.34	29.50	54.00	12.45	V
10877.500	31.81	-29.88	37.95	23.73	54.00	22.19	V
15780.200	35.16	-24.20	40.44	18.92	54.00	18.84	V
17833.900	37.98	-22.48	41.53	18.93	54.00	16.02	H
17894.400	38.08	-22.61	41.52	19.16	54.00	15.92	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)
5149.600	39.86	-23.27	34.26	28.87	54.00	14.14	V
5352.400	41.79	-22.29	34.34	29.74	54.00	12.21	V
10775.200	31.18	-29.76	37.91	23.02	54.00	22.82	H
15839.600	35.67	-24.06	40.51	19.23	54.00	18.33	H
17903.200	38.27	-22.63	41.52	19.37	54.00	15.73	V
17945.000	38.09	-22.71	41.51	19.29	54.00	15.91	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)
5351.800	42.59	-22.29	34.34	30.53	54.00	11.41	V
5361.200	42.58	-22.29	34.35	30.52	54.00	11.42	V
10639.900	30.78	-29.30	37.86	22.23	54.00	23.22	V
15959.500	35.84	-23.82	40.65	19.00	54.00	18.16	H
17868.000	37.80	-22.55	41.53	18.83	54.00	16.20	V
17949.400	38.04	-22.72	41.51	19.25	54.00	15.96	V

## 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)
5451.200	39.09	-22.70	34.38	27.42	54.00	14.91	V
5460.000	39.18	-22.69	34.38	27.49	54.00	14.82	V
10996.300	32.77	-29.88	38.00	24.65	54.00	21.23	H
17740.400	38.06	-22.27	41.55	18.78	54.00	15.94	V
17827.300	37.93	-22.47	41.53	18.86	54.00	16.07	V
17936.200	38.11	-22.69	41.51	19.29	54.00	15.89	H

## Channel 120

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)
5440.600	39.06	-22.63	34.38	27.31	54.00	14.94	V
5456.600	38.78	-22.70	34.38	27.10	54.00	15.22	V
11199.800	34.44	-30.43	38.08	26.78	54.00	19.56	V
17750.300	37.90	-22.30	41.55	18.64	54.00	16.10	V
17846.000	37.79	-22.51	41.53	18.76	54.00	16.21	H
17976.900	37.94	-22.78	41.50	19.21	54.00	16.06	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)
5440.600	38.97	-22.63	34.38	27.22	48.30	9.33	V
5458.000	38.76	-22.70	34.38	27.07	48.30	9.54	V
11400.000	32.25	-29.72	38.16	23.81	48.30	16.05	V
17828.400	37.93	-22.47	41.53	18.87	48.30	10.37	H
17919.700	38.10	-22.66	41.52	19.24	48.30	10.20	H
17970.300	37.70	-22.76	41.51	18.95	48.30	10.60	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)
5395.200	40.29	-22.29	34.36	28.21	54.00	13.71	V
5421.800	39.97	-22.49	34.37	28.08	54.00	14.03	V
11439.600	32.14	-29.47	38.18	23.43	54.00	21.86	V
17817.400	37.93	-22.45	41.54	18.84	54.00	16.07	H
17842.700	37.95	-22.50	41.53	18.92	54.00	16.05	V
17885.600	38.00	-22.59	41.52	19.07	54.00	16.00	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)
5146.800	39.51	-23.28	34.26	28.53	54.00	14.49	V
5150.000	39.74	-23.27	34.26	28.75	54.00	14.26	V
11020.500	32.30	-29.83	38.01	24.12	54.00	21.70	H
15570.100	35.42	-24.50	40.19	19.74	54.00	18.58	H
17750.300	38.08	-22.30	41.55	18.82	54.00	15.92	V
17907.600	38.44	-22.63	41.52	19.56	54.00	15.56	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)
5143.200	39.00	-23.29	34.26	28.03	54.00	15.00	V
5150.000	39.12	-23.27	34.26	28.13	54.00	14.88	V
11046.900	32.06	-29.78	38.02	23.82	54.00	21.94	H
15690.000	35.32	-24.44	40.33	19.43	54.00	18.68	V
17836.100	38.10	-22.49	41.53	19.06	54.00	15.90	V
17930.700	38.28	-22.68	41.51	19.45	54.00	15.72	H

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5150.000	38.57	-23.27	34.26	27.58	54.00	15.43	V
5350.200	40.29	-22.29	34.34	28.24	54.00	13.71	V
10928.100	31.77	-29.99	37.97	23.78	54.00	22.23	H
15809.900	35.73	-24.12	40.47	19.38	54.00	18.27	H
17826.200	38.02	-22.47	41.53	18.95	54.00	15.98	V
17914.200	38.49	-22.65	41.52	19.62	54.00	15.51	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)
5350.200	41.67	-22.29	34.34	29.62	54.00	12.33	V
5353.600	41.09	-22.29	34.34	29.04	54.00	12.91	V
10620.100	31.24	-29.20	37.85	22.59	54.00	22.76	H
15929.800	35.81	-23.88	40.62	19.07	54.00	18.19	V
17829.500	38.13	-22.47	41.53	19.07	54.00	15.87	H
17918.600	38.35	-22.66	41.52	19.49	54.00	15.65	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)
5451.200	39.32	-22.70	34.38	27.65	54.00	14.68	V
5460.000	39.30	-22.69	34.38	27.61	54.00	14.70	V
11024.900	32.76	-29.82	38.01	24.58	54.00	21.24	V
17810.800	37.63	-22.44	41.54	18.53	54.00	16.37	V
17861.400	37.76	-22.54	41.53	18.77	54.00	16.24	H
17935.100	38.07	-22.69	41.51	19.24	54.00	15.93	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)
5442.400	39.01	-22.65	34.38	27.28	54.00	14.99	V
5459.600	38.79	-22.69	34.38	27.10	54.00	15.21	V
11183.300	33.09	-30.44	38.07	25.46	54.00	20.91	V
17833.900	38.13	-22.48	41.53	19.08	54.00	15.87	V
17891.100	38.10	-22.60	41.52	19.18	54.00	15.90	V
17934.000	38.25	-22.69	41.51	19.43	54.00	15.75	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)
5426.000	38.83	-22.52	34.37	26.98	48.30	9.47	V
5458.800	38.67	-22.69	34.38	26.98	48.30	9.63	V
11380.200	32.11	-29.84	38.15	23.80	48.30	16.19	H
17835.000	38.11	-22.48	41.53	19.07	48.30	10.19	V
17880.100	37.92	-22.58	41.52	18.98	48.30	10.38	V
17928.500	38.27	-22.68	41.51	19.44	48.30	10.03	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)
5386.000	39.11	-22.29	34.36	27.04	54.00	14.89	V
5426.400	38.79	-22.52	34.37	26.94	54.00	15.21	V
11419.800	32.39	-29.59	38.17	23.82	54.00	21.61	V
17828.400	38.12	-22.47	41.53	19.06	54.00	15.88	H
17893.300	38.13	-22.60	41.52	19.21	54.00	15.87	V
17953.800	38.09	-22.73	41.51	19.31	54.00	15.91	V

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## Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5145.200	39.4	-23.3	34.3	28.34	54.0	14.6	V
5150.000	39.5	-23.3	34.3	28.48	54.0	14.5	V
11320.800	32.0	-30.1	38.3	23.80	54.0	22.0	V
15629.500	35.4	-24.5	40.4	19.61	54.0	18.6	V
17825.100	38.1	-22.5	41.3	19.27	54.0	15.9	V
17908.700	38.4	-22.6	41.3	19.72	54.0	15.6	H

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	43.6	-22.3	34.5	31.44	54.0	10.4	V
5352.400	43.7	-22.3	34.5	31.52	54.0	10.3	V
11275.700	32.1	-30.3	38.2	24.15	54.0	21.9	V
15870.400	35.7	-24.0	40.6	19.06	54.0	18.3	V
17829.500	38.1	-22.5	41.3	19.26	54.0	15.9	V
17913.100	38.3	-22.6	41.3	19.67	54.0	15.7	H

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5450.800	40.1	-22.7	34.6	28.22	54.0	13.9	V
5458.600	40.4	-22.7	34.6	28.49	54.0	13.6	V
11060.100	32.5	-29.9	38.0	24.37	54.0	21.5	H
17826.200	38.2	-22.5	41.3	19.36	54.0	15.8	H
17896.600	38.3	-22.6	41.3	19.61	54.0	15.7	H
17945.000	38.2	-22.7	41.3	19.58	54.0	15.8	H

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5359.600	39.2	-22.3	34.5	27.04	54.0	14.8	V
5386.800	39.1	-22.3	34.5	26.89	54.0	14.9	V
11380.200	32.2	-29.8	38.4	23.73	54.0	21.8	V
17783.300	37.9	-22.4	41.3	18.98	54.0	16.1	H
17837.200	38.0	-22.5	41.3	19.26	54.0	16.0	V
17902.100	38.3	-22.6	41.3	19.61	54.0	15.7	H

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## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5114.600	40.4	-23.4	34.3	29.46	54.0	13.6	V
5150.000	40.2	-23.3	34.3	29.16	54.0	13.8	V
11404.400	32.4	-29.7	38.4	23.69	54.0	21.6	V
15750.500	35.5	-24.3	40.5	19.30	54.0	18.5	H
17833.900	38.1	-22.5	41.3	19.32	54.0	15.9	H
17961.500	37.9	-22.7	41.3	19.34	54.0	16.1	H

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5442.000	42.6	-22.6	34.6	30.64	54.0	11.4	V
5459.600	43.1	-22.7	34.6	31.18	54.0	10.9	V
11140.400	32.3	-30.4	38.1	24.59	54.0	21.7	H
17883.400	38.1	-22.6	41.3	19.41	54.0	15.9	H
17935.100	38.1	-22.7	41.3	19.50	54.0	15.9	V
17953.800	38.1	-22.7	41.3	19.56	54.0	15.9	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5146.200	39.6	-23.3	34.3	28.55	54.0	14.4	V
5150.000	39.7	-23.3	34.3	28.69	54.0	14.3	V
10802.700	31.6	-29.8	37.8	23.57	54.0	22.4	V
15629.500	35.5	-24.5	40.4	19.70	54.0	18.5	H
17827.300	38.1	-22.5	41.3	19.29	54.0	15.9	V
17883.400	38.1	-22.6	41.3	19.42	54.0	15.9	V

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5350.000	42.9	-22.3	34.5	30.68	54.0	11.1	V
5355.800	42.6	-22.3	34.5	30.41	54.0	11.4	V
11059.000	32.0	-29.9	38.0	23.88	54.0	22.0	H
15870.400	35.7	-24.0	40.6	19.06	54.0	18.3	V
17836.000	38.1	-22.5	41.3	19.31	54.0	15.9	V
17891.100	38.1	-22.6	41.3	19.42	54.0	15.9	H

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5433.400	39.0	-22.6	34.5	27.05	54.0	15.0	V
5457.200	39.0	-22.7	34.6	27.15	54.0	15.0	V
11060.100	31.9	-29.9	38.0	23.83	54.0	22.1	H
17813.000	37.8	-22.4	41.3	18.94	54.0	16.2	V
17890.000	38.1	-22.6	41.3	19.44	54.0	15.9	H
17970.300	38.0	-22.8	41.3	19.48	54.0	16.0	H

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5364.600	39.0	-22.3	34.5	26.78	54.0	15.0	V
5389.200	39.1	-22.3	34.5	26.88	54.0	14.9	V
11380.200	32.2	-29.8	38.4	23.67	54.0	21.8	V
17824.000	38.1	-22.5	41.3	19.29	54.0	15.9	H
17863.600	37.9	-22.5	41.3	19.20	54.0	16.1	H
17898.800	38.3	-22.6	41.3	19.61	54.0	15.7	H



**802.11ac-HT160**

## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5114.600	40.4	-23.4	34.3	29.46	54.0	13.6	V
5150.000	40.2	-23.3	34.3	29.16	54.0	13.8	V
11404.400	32.4	-29.7	38.4	23.69	54.0	21.6	V
15750.500	35.5	-24.3	40.5	19.30	54.0	18.5	H
17833.900	38.1	-22.5	41.3	19.32	54.0	15.9	H
17961.500	37.9	-22.7	41.3	19.34	54.0	16.1	H

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5451.200	43.1	-22.7	34.6	31.19	54.0	10.9	V
5457.800	43.3	-22.7	34.6	31.38	54.0	10.7	V
11140.400	32.3	-30.4	38.1	24.64	54.0	21.7	V
17827.300	38.1	-22.5	41.3	19.31	54.0	15.9	V
17913.100	38.4	-22.6	41.3	19.79	54.0	15.6	V
17953.800	38.1	-22.7	41.3	19.54	54.0	15.9	V

**PEAK Results:**
**802.11a**

## Channel 36

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5146.580	54.79	-23.28	34.26	43.81	74.00	19.21	V
5149.275	55.16	-23.27	34.26	44.17	74.00	18.84	V
10359.950	45.74	-29.67	37.63	37.78	68.30	22.56	H
15539.850	52.02	-24.49	40.15	36.36	74.00	21.98	H
16826.850	56.79	-23.00	41.96	37.83	68.30	11.51	H
17221.750	56.13	-22.87	41.93	37.07	68.30	12.17	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)
5177.400	53.88	-23.20	34.27	42.81	68.30	14.41	V
5228.200	55.17	-23.35	34.29	44.23	68.30	13.13	V
10400.100	45.25	-29.32	37.68	36.88	68.30	23.05	V
15599.800	51.25	-24.52	40.22	35.55	68.30	17.05	H
16863.150	58.21	-23.00	42.01	39.21	68.30	10.09	H
17125.500	56.11	-23.02	42.05	37.09	68.30	12.19	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5209.800	55.30	-23.28	34.29	44.29	68.30	13.00	V
5271.200	56.20	-22.96	34.31	44.84	68.30	12.10	V
10479.850	45.48	-29.57	37.78	37.27	68.30	22.82	V
15720.250	51.59	-24.36	40.37	35.58	68.30	16.71	H
16890.100	57.24	-23.01	42.05	38.20	68.30	11.06	V
17002.850	57.76	-23.02	42.20	38.59	68.30	10.54	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)
5228.000	55.54	-23.35	34.29	44.59	68.30	12.76	V
5290.400	56.21	-22.71	34.32	44.61	68.30	12.09	V
10520.000	44.61	-29.65	37.81	36.45	68.30	23.69	V
15780.200	51.30	-24.20	40.44	35.06	74.00	22.70	V
16669.550	55.52	-23.22	41.74	37.00	68.30	12.78	V
17153.550	57.06	-22.98	42.01	38.03	68.30	11.23	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)
5258.000	55.45	-23.12	34.31	44.27	68.30	12.85	V
5302.400	56.81	-22.62	34.32	45.10	68.30	11.49	V
10560.150	46.11	-29.45	37.82	37.73	68.30	22.19	V
15840.150	52.20	-24.06	40.51	35.75	74.00	21.80	H
16643.700	56.02	-23.27	41.70	37.59	68.30	12.28	V
17065.000	56.68	-23.03	42.12	37.59	68.30	11.62	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)
5350.137	57.72	-22.29	34.34	45.67	74.00	16.28	V
5352.689	56.96	-22.29	34.34	44.91	74.00	17.04	V
10639.900	45.24	-29.30	37.86	36.69	74.00	28.76	H
15960.050	52.92	-23.82	40.65	36.09	74.00	21.08	V
16762.500	55.75	-23.02	41.87	36.90	68.30	12.55	V
17294.900	56.29	-22.79	41.84	37.24	68.30	12.01	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)
5443.750	55.48	-22.66	34.38	43.76	74.00	18.52	V
5458.570	55.05	-22.69	34.38	43.36	74.00	18.95	V
11000.150	46.10	-29.87	38.00	37.97	68.30	22.20	H
16500.150	53.62	-23.16	41.50	35.29	68.30	14.68	V
16946.750	56.76	-23.01	42.13	37.65	68.30	11.54	V
17221.200	56.35	-22.87	41.93	37.28	68.30	11.95	V

## Channel 120

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)
5576.600	54.13	-22.68	34.54	42.27	68.30	14.17	V
5629.000	55.03	-22.85	34.64	43.23	68.30	13.27	V
11204.750	49.54	-30.42	38.08	41.88	68.30	18.76	V
16799.900	54.72	-23.00	41.92	35.79	68.30	13.58	H
16920.350	56.94	-23.01	42.09	37.86	68.30	11.36	V
17034.200	56.43	-23.03	42.16	37.30	68.30	11.87	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)
5725.400	57.27	-22.98	34.82	45.43	68.30	11.03	V
5725.587	57.28	-22.98	34.82	45.44	68.30	11.02	V
11400.000	46.75	-29.72	38.16	38.31	74.00	27.25	H
17100.200	54.73	-23.04	42.08	35.69	68.30	13.57	H
17297.650	56.20	-22.80	41.84	37.16	68.30	12.10	H
17474.200	56.73	-23.07	41.63	38.17	68.30	11.57	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)
5673.000	54.98	-22.84	34.72	43.10	68.30	13.32	V
5792.800	55.72	-22.82	34.94	43.60	68.30	12.58	V
11440.150	46.23	-29.46	38.18	37.51	74.00	27.77	V
17160.150	54.69	-22.97	42.01	35.65	68.30	13.61	V
17261.900	55.55	-22.81	41.88	36.47	68.30	12.75	H
17387.850	55.66	-23.01	41.73	36.94	68.30	12.64	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)
5145.985	54.73	-23.28	34.26	43.75	74.00	19.27	V
5148.488	54.67	-23.28	34.26	43.68	74.00	19.33	V
10359.950	46.46	-29.67	37.63	38.50	68.30	21.84	H
15539.850	51.91	-24.49	40.15	36.25	68.30	16.39	H
16669.550	56.47	-23.22	41.74	37.94	68.30	11.83	V
16983.050	56.58	-23.02	42.18	37.42	68.30	11.72	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)
5158.800	54.98	-23.25	34.27	43.97	68.30	13.32	V
5244.600	54.98	-23.30	34.30	43.98	68.30	13.32	V
10400.100	45.22	-29.32	37.68	36.85	68.30	23.08	H
15599.800	51.91	-24.52	40.22	36.21	74.00	22.09	H
16859.300	57.11	-23.00	42.01	38.11	68.30	11.19	H
17101.300	56.30	-23.04	42.08	37.26	68.30	12.00	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5214.600	54.98	-23.30	34.29	43.98	68.30	13.32	V
5268.800	55.99	-22.99	34.31	44.67	68.30	12.31	V
10479.850	44.87	-29.57	37.78	36.67	68.30	23.43	H
15720.250	50.78	-24.36	40.37	34.77	74.00	23.22	H
16961.600	56.18	-23.01	42.15	37.05	68.30	12.12	V
17387.300	55.79	-23.01	41.73	37.06	68.30	12.51	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)
5212.400	54.94	-23.29	34.29	43.94	68.30	13.36	V
5295.000	56.31	-22.68	34.32	44.67	68.30	11.99	V
10520.000	44.23	-29.65	37.81	36.07	68.30	24.07	H
15780.200	51.44	-24.20	40.44	35.20	74.00	22.56	H
16950.050	57.35	-23.01	42.13	38.23	68.30	10.95	V
17175.000	56.70	-22.94	41.99	37.66	68.30	11.60	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)
5248.000	56.22	-23.25	34.30	45.17	68.30	12.08	V
5310.800	56.88	-22.55	34.33	45.10	68.30	11.42	V
10560.150	45.01	-29.45	37.82	36.63	68.30	23.29	V
15840.150	52.31	-24.06	40.51	35.86	74.00	21.69	V
16912.100	55.96	-23.01	42.08	36.89	68.30	12.34	H
17112.300	56.54	-23.04	42.06	37.52	68.30	11.76	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)
5353.431	58.13	-22.29	34.34	46.07	74.00	15.87	V
5362.543	57.45	-22.29	34.35	45.40	74.00	16.55	V
10639.900	44.78	-29.30	37.86	36.23	74.00	29.22	V
15960.050	51.95	-23.82	40.65	35.12	74.00	22.05	H
16792.750	56.73	-23.00	41.91	37.81	68.30	11.57	V
16930.250	56.21	-23.01	42.10	37.11	68.30	12.09	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)
5381.605	55.67	-22.29	34.35	43.60	74.00	18.33	V
5397.775	55.39	-22.30	34.36	43.33	74.00	18.61	V
11000.150	46.44	-29.87	38.00	38.32	68.30	21.86	V
16500.150	52.86	-23.16	41.50	34.52	68.30	15.44	H
16851.050	55.68	-23.00	41.99	36.69	68.30	12.62	V
17124.400	56.60	-23.03	42.05	37.58	68.30	11.70	H

## Channel 120

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)
5578.000	56.63	-22.69	34.55	44.77	68.30	11.67	V
5628.800	55.58	-22.85	34.64	43.78	68.30	12.72	V
11970.500	49.51	-29.11	38.67	39.95	68.30	18.79	V
16799.900	54.39	-23.00	41.92	35.47	68.30	13.91	H
17033.650	56.86	-23.03	42.16	37.73	68.30	11.44	H
17336.700	56.46	-22.89	41.79	37.56	68.30	11.84	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)
5726.275	56.73	-22.98	34.82	44.89	68.30	11.57	V
5727.950	58.07	-22.98	34.82	46.23	68.30	10.23	V
11400.000	46.14	-29.72	38.16	37.70	74.00	27.86	V
17100.200	54.16	-23.04	42.08	35.12	68.30	14.14	V
17258.600	55.42	-22.81	41.89	36.34	68.30	12.88	V
17412.050	56.12	-23.07	41.70	37.48	68.30	12.18	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)
5633.800	54.95	-22.84	34.65	43.14	68.30	13.35	V
5799.800	54.62	-22.77	34.95	42.43	68.30	13.68	V
11440.150	45.51	-29.46	38.18	36.80	74.00	28.49	H
17160.150	54.43	-22.97	42.01	35.39	68.30	13.87	H
17214.050	56.02	-22.88	41.94	36.96	68.30	12.28	V
17393.350	55.78	-23.02	41.73	37.08	68.30	12.52	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)
5121.993	54.77	-23.36	34.25	43.88	74.00	19.23	V
5146.562	54.37	-23.28	34.26	43.38	74.00	19.63	V
10379.750	44.70	-29.50	37.66	36.54	68.30	23.60	V
15570.100	51.45	-24.50	40.19	35.77	74.00	22.55	H
16549.100	55.18	-23.24	41.57	36.85	68.30	13.12	H
16993.500	36.75	-23.02	42.19	17.58	68.30	31.55	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)
5197.800	54.65	-23.23	34.28	43.60	68.30	13.65	V
5265.800	58.41	-23.02	34.31	47.12	68.30	9.89	V
10400.050	44.92	-29.32	37.68	36.55	68.30	23.38	V
15690.000	51.10	-24.44	40.33	35.21	74.00	22.90	V
16828.500	56.06	-23.00	41.96	37.09	68.30	12.24	H
17193.700	55.77	-22.91	41.97	36.72	68.30	12.53	V



## 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)
5212.400	54.65	-23.29	34.29	43.65	74.00	19.35	V
5307.800	56.70	-22.57	34.33	44.95	74.00	17.30	V
10539.800	46.15	-29.55	37.82	37.88	68.30	22.15	H
15809.900	51.34	-24.12	40.47	34.99	74.00	22.66	V
17040.250	57.40	-23.03	42.15	38.27	68.30	10.90	V
17440.650	56.63	-23.14	41.67	38.09	68.30	11.67	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)
5350.880	55.98	-22.29	34.34	43.93	74.00	18.02	V
5367.052	55.62	-22.29	34.35	43.56	74.00	18.38	V
10620.100	44.66	-29.20	37.85	36.00	74.00	29.34	V
15929.800	52.76	-23.88	40.62	36.02	74.00	21.24	H
16935.200	56.02	-23.01	42.11	36.92	68.30	12.28	V
17221.200	56.65	-22.87	41.93	37.58	68.30	11.65	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)
5356.945	55.89	-22.29	34.34	43.83	74.00	18.11	V
5426.935	55.53	-22.53	34.37	43.68	74.00	18.47	V
11019.950	45.92	-29.83	38.01	37.75	74.00	28.08	H
16529.850	53.59	-23.21	41.54	35.26	68.30	14.70	V
16826.300	55.79	-23.00	41.96	36.83	68.30	12.51	H
17035.850	55.45	-23.03	42.16	36.32	68.30	12.85	V

## 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)
5546.800	55.23	-22.61	34.49	43.35	68.30	13.07	V
5634.800	57.59	-22.84	34.65	45.78	68.30	10.71	V
11180.000	46.58	-30.45	38.07	38.96	68.30	21.72	V
16770.200	54.10	-23.01	41.88	35.23	68.30	14.20	H
16980.300	57.03	-23.02	42.17	37.87	68.30	11.27	V
17162.900	56.50	-22.96	42.00	37.46	68.30	11.80	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)
5725.913	57.25	-22.98	34.82	45.41	68.30	11.05	V
5729.238	57.24	-22.98	34.82	45.40	68.30	11.06	V
11340.050	45.55	-30.03	38.14	37.44	74.00	28.45	V
17010.000	55.54	-23.02	42.19	36.37	68.30	12.76	V
17128.800	56.16	-23.02	42.04	37.13	68.30	12.14	V
17204.700	56.59	-22.90	41.95	37.53	68.30	11.71	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)
5621.200	53.90	-22.85	34.63	42.12	68.30	14.40	V
5789.600	54.93	-22.84	34.93	42.84	68.30	13.37	V
11419.800	47.35	-29.59	38.17	38.78	74.00	26.65	H
17129.900	54.43	-23.02	42.04	35.41	68.30	13.87	H
17302.050	55.09	-22.81	41.84	36.06	68.30	13.21	V
17481.900	56.29	-23.02	41.62	37.70	68.30	12.01	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)
5125.265	54.72	-23.35	34.25	43.82	74.00	19.28	V
5146.458	55.51	-23.28	34.26	44.53	74.00	18.49	V
10359.950	44.82	-29.67	37.63	36.86	68.30	23.48	V
15539.850	52.41	-24.49	40.15	36.75	74.00	21.59	H
16971.500	56.33	-23.02	42.16	37.18	68.30	11.97	V
17305.350	55.60	-22.82	41.83	36.59	68.30	12.70	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)
5177.000	54.05	-23.20	34.27	42.98	68.30	14.25	V
5230.400	55.31	-23.36	34.29	44.38	68.30	12.99	V
10400.100	44.56	-29.32	37.68	36.19	68.30	23.74	H
15599.800	51.79	-24.52	40.22	36.09	74.00	22.21	V
16899.450	55.67	-23.01	42.06	36.62	68.30	12.63	V
17398.300	56.21	-23.04	41.72	37.53	68.30	12.09	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)
5212.400	54.98	-23.29	34.29	43.98	68.30	13.32	V
5298.800	56.11	-22.65	34.32	44.43	68.30	12.19	V
10479.850	45.98	-29.57	37.78	37.78	68.30	22.32	V
15720.250	52.74	-24.36	40.37	36.73	74.00	21.26	V
16706.400	55.34	-23.14	41.79	36.69	68.30	12.96	H
17059.500	55.75	-23.03	42.13	36.66	68.30	12.55	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)
5231.600	55.43	-23.37	34.30	44.50	68.30	12.87	V
5286.800	57.04	-22.76	34.32	45.48	68.30	11.26	V
10520.000	45.30	-29.65	37.81	37.14	68.30	23.00	H
15780.200	51.36	-24.20	40.44	35.12	74.00	22.64	H
16864.800	56.95	-23.00	42.01	37.94	68.30	11.35	H
17154.100	56.55	-22.98	42.01	37.51	68.30	11.75	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)
5256.400	54.80	-23.15	34.30	43.64	68.30	13.50	V
5301.800	57.75	-22.62	34.32	46.05	68.30	10.55	V
10560.150	43.84	-29.45	37.82	35.46	68.30	24.46	H
15840.150	52.93	-24.06	40.51	36.48	74.00	21.07	V
16858.200	56.94	-23.00	42.00	37.94	68.30	11.36	H
17190.950	55.98	-22.92	41.97	36.93	68.30	12.32	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)
5350.015	57.34	-22.29	34.34	45.29	74.00	16.66	V
5352.635	57.72	-22.29	34.34	45.67	74.00	16.28	V
10639.900	44.91	-29.30	37.86	36.35	74.00	29.09	H
15960.050	52.65	-23.82	40.65	35.81	74.00	21.35	H
16803.200	55.93	-23.00	41.93	37.00	68.30	12.37	V
17005.050	56.22	-23.02	42.19	37.04	68.30	12.08	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)
5383.120	55.38	-22.29	34.35	43.31	74.00	18.62	V
5445.190	55.42	-22.67	34.38	43.71	74.00	18.58	V
11000.150	45.42	-29.87	38.00	37.29	74.00	28.58	V
16500.150	53.09	-23.16	41.50	34.75	68.30	15.21	H
16768.550	55.35	-23.01	41.88	36.48	68.30	12.95	V
16985.250	56.88	-23.02	42.18	37.72	68.30	11.42	H

## Channel 120

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)
5577.800	57.06	-22.69	34.55	45.20	68.30	11.24	V
5627.600	55.58	-22.85	34.64	43.79	68.30	12.72	V
11194.300	48.77	-30.43	38.08	41.13	74.00	25.23	H
16799.900	53.88	-23.00	41.92	34.95	68.30	14.42	H
17068.850	56.34	-23.03	42.12	37.26	68.30	11.96	V
17263.000	56.09	-22.80	41.88	37.01	68.30	12.21	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)
5725.425	57.30	-22.98	34.82	45.46	68.30	11.00	V
5726.050	57.96	-22.98	34.82	46.12	68.30	10.34	V
11400.000	46.91	-29.72	38.16	38.47	68.30	21.38	V
17100.200	54.18	-23.04	42.08	35.14	68.30	14.12	V
17238.800	56.12	-22.84	41.91	37.05	68.30	12.18	H
17310.850	56.15	-22.83	41.82	37.15	68.30	12.15	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)
5633.800	54.95	-22.84	34.65	43.14	68.30	13.35	V
5799.800	54.62	-22.77	34.95	42.43	68.30	13.68	V
11440.150	45.38	-29.46	38.18	36.67	74.00	28.62	H
17160.150	53.39	-22.97	42.01	34.35	68.30	14.91	V
17271.800	56.31	-22.79	41.87	37.23	68.30	11.99	H
17454.400	55.97	-23.17	41.65	37.49	68.30	12.33	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)
5134.995	55.02	-23.31	34.26	44.07	74.00	18.98	V
5143.535	54.58	-23.29	34.26	43.61	74.00	19.42	V
10379.750	44.72	-29.50	37.66	36.56	68.30	23.58	V
15570.100	51.14	-24.50	40.19	35.46	74.00	22.86	V
16849.400	55.82	-23.00	41.99	36.83	68.30	12.48	H
17100.200	56.39	-23.04	42.08	37.35	68.30	11.91	V

## 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)
5198.800	57.89	-23.23	34.28	46.84	74.00	16.11	V
5266.800	57.28	-23.01	34.31	45.98	74.00	16.72	V
10460.050	45.35	-29.49	37.75	37.09	68.30	22.95	H
15690.000	52.70	-24.44	40.33	36.81	74.00	21.30	V
16673.950	55.59	-23.21	41.75	37.05	68.30	12.71	H
16928.600	56.51	-23.01	42.10	37.41	68.30	11.79	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)
5214.200	54.64	-23.30	34.29	43.64	74.00	19.36	V
5306.600	55.65	-22.58	34.32	43.91	74.00	18.35	V
10539.800	44.19	-29.55	37.82	35.92	68.30	24.11	H
15809.900	52.21	-24.12	40.47	35.86	74.00	21.79	V
16772.400	56.01	-23.00	41.88	37.13	68.30	12.29	H
17247.050	57.02	-22.83	41.90	37.95	68.30	11.28	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)
5352.230	56.17	-22.29	34.34	44.12	74.00	17.83	V
5354.282	55.92	-22.29	34.34	43.87	74.00	18.08	V
10620.100	45.32	-29.20	37.85	36.67	74.00	28.68	H
15929.800	54.37	-23.88	40.62	37.63	74.00	19.63	V
16820.800	56.26	-23.00	41.95	37.30	68.30	12.04	V
17223.400	56.20	-22.87	41.93	37.14	68.30	12.10	V

## 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)
5386.255	55.68	-22.29	34.36	43.61	74.00	18.32	V
5411.350	55.17	-22.40	34.37	43.21	74.00	18.83	V
11019.950	46.31	-29.83	38.01	38.14	68.30	21.99	V
16529.850	54.63	-23.21	41.54	36.30	68.30	13.67	H
16931.350	56.28	-23.01	42.11	37.19	68.30	12.02	H
17178.850	55.72	-22.94	41.98	36.67	68.30	12.58	V

## 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)
5549.000	54.49	-22.61	34.49	42.61	68.30	13.81	V
5631.600	56.52	-22.84	34.64	44.72	68.30	11.78	V
11180.000	45.67	-30.45	38.07	38.04	68.30	22.63	H
16770.200	54.05	-23.01	41.88	35.18	68.30	14.25	V
16953.900	57.48	-23.01	42.14	38.35	68.30	10.82	V
17115.050	56.29	-23.04	42.06	37.27	68.30	12.01	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)
5725.312	58.52	-22.98	34.82	46.68	68.30	9.78	V
5729.762	58.25	-22.98	34.82	46.41	68.30	10.05	V
11340.050	46.53	-30.03	38.14	38.42	68.30	21.77	H
17010.000	54.22	-23.02	42.19	35.05	68.30	14.08	V
17138.700	56.11	-23.00	42.03	37.08	68.30	12.19	V
17209.100	56.82	-22.89	41.95	37.76	68.30	11.48	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)
5629.800	54.59	-22.84	34.64	42.80	68.30	13.71	V
5785.000	54.99	-22.87	34.92	42.94	68.30	13.31	V
11419.800	46.80	-29.59	38.17	38.22	74.00	27.20	H
17129.900	54.20	-23.02	42.04	35.17	68.30	14.10	V
17336.700	56.17	-22.89	41.79	37.26	68.30	12.13	H
17518.750	56.27	-22.78	41.60	37.45	68.30	12.03	V



**802.11ax-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5127.575	56.8	-23.3	34.3	45.79	74.0	17.2	V
5129.903	57.8	-23.3	34.3	46.78	74.0	16.2	V
10419.900	45.7	-29.3	37.5	37.50	68.3	22.6	V
15630.050	51.5	-24.5	40.4	35.69	74.0	22.5	V
16892.850	56.0	-23.0	41.6	37.42	68.3	12.3	V
17135.400	55.8	-23.0	41.6	37.24	68.3	12.5	H

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5352.486	58.5	-22.3	34.5	46.31	74.0	15.5	V
5358.561	58.0	-22.3	34.5	45.83	74.0	16.0	V
10579.950	44.6	-29.3	37.6	36.25	68.3	23.7	H
15869.850	52.9	-24.0	40.6	36.26	74.0	21.1	H
16735.000	55.7	-23.1	41.5	37.20	68.3	12.6	V
17062.800	57.0	-23.0	41.6	38.41	68.3	11.3	H

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5446.675	58.1	-22.7	34.6	46.26	74.0	15.9	V
5451.250	58.0	-22.7	34.6	46.11	74.0	16.0	V
11060.100	46.3	-29.9	38.0	38.17	68.3	22.0	H
16589.800	53.3	-23.3	41.5	35.18	68.3	15.0	V
16847.750	56.7	-23.0	41.6	38.05	68.3	11.6	V
17003.400	57.2	-23.0	41.7	38.48	68.3	11.1	H

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5603.400	38.9	-22.8	34.7	26.97	68.3	29.4	V
5783.400	57.3	-22.9	34.9	45.19	68.3	11.0	V
11380.200	46.4	-29.8	38.4	37.87	74.0	27.6	H
17069.950	54.1	-23.0	41.6	35.52	68.3	14.2	H
17224.500	56.0	-22.9	41.5	37.41	68.3	12.3	V
17049.850	55.8	-23.0	41.6	37.18	68.3	12.5	H

**802.11ax-HT160**

## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5121.415	57.5	-23.4	34.3	46.57	74.0	16.5	V
5143.605	57.6	-23.3	34.3	46.53	74.0	16.4	V
10500.200	45.6	-29.7	37.6	37.63	68.3	22.7	H
15749.950	51.7	-24.3	40.5	35.47	74.0	22.3	H
16808.700	55.0	-23.0	41.6	36.43	68.3	13.3	V
17091.950	56.6	-23.0	41.6	38.01	68.3	11.7	V

## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5430.310	59.5	-22.6	34.5	47.54	74.0	14.5	V
5458.255	58.8	-22.7	34.6	46.96	74.0	15.2	V
11139.800	46.3	-30.4	38.1	38.59	68.3	22.0	H
16710.250	54.3	-23.1	41.5	35.91	68.3	14.0	V
16941.250	56.6	-23.0	41.7	37.95	68.3	11.7	H
17048.500	56.4	-23.0	41.7	37.79	68.3	11.9	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5128.188	56.6	-23.3	34.3	45.59	74.0	17.4	V
5129.343	57.3	-23.3	34.3	46.30	74.0	16.7	V
10419.900	45.8	-29.3	37.5	37.56	68.3	22.5	V
15630.050	51.2	-24.5	40.4	35.37	74.0	22.8	H
16929.150	58.0	-23.0	41.7	39.34	68.3	10.3	V
17036.400	55.8	-23.0	41.7	37.14	68.3	12.5	V

## Channel 58

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5353.256	57.4	-22.3	34.5	45.22	74.0	16.6	V
5356.631	58.8	-22.3	34.5	46.57	74.0	15.2	V
10579.950	45.1	-29.3	37.6	36.79	68.3	23.2	V
15869.850	52.3	-24.0	40.6	35.69	74.0	21.7	H
16887.900	56.5	-23.0	41.6	37.87	68.3	11.8	V
17093.050	56.0	-23.0	41.6	37.39	68.3	12.3	H

## Channel 106

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5447.635	59.4	-22.7	34.6	47.52	74.0	14.6	V
5448.535	59.0	-22.7	34.6	47.15	74.0	15.0	V
11060.100	46.0	-29.9	38.0	37.91	74.0	28.0	V
16589.800	53.9	-23.3	41.5	35.73	68.3	14.4	V
16912.650	56.4	-23.0	41.6	37.80	68.3	11.9	H
17078.200	56.3	-23.0	41.6	37.76	68.3	12.0	V

## Channel 138

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5600.800	60.2	-22.8	34.7	48.26	68.3	8.1	V
5789.800	55.4	-22.8	35.0	43.31	68.3	12.9	V
11380.200	45.9	-29.8	38.4	37.42	74.0	28.1	H
17069.950	55.4	-23.0	41.6	36.82	68.3	12.9	V
17227.250	56.1	-22.9	41.5	37.49	68.3	12.2	H
17453.850	57.0	-23.2	41.2	38.94	68.3	11.3	V

**802.11ac-HT160**

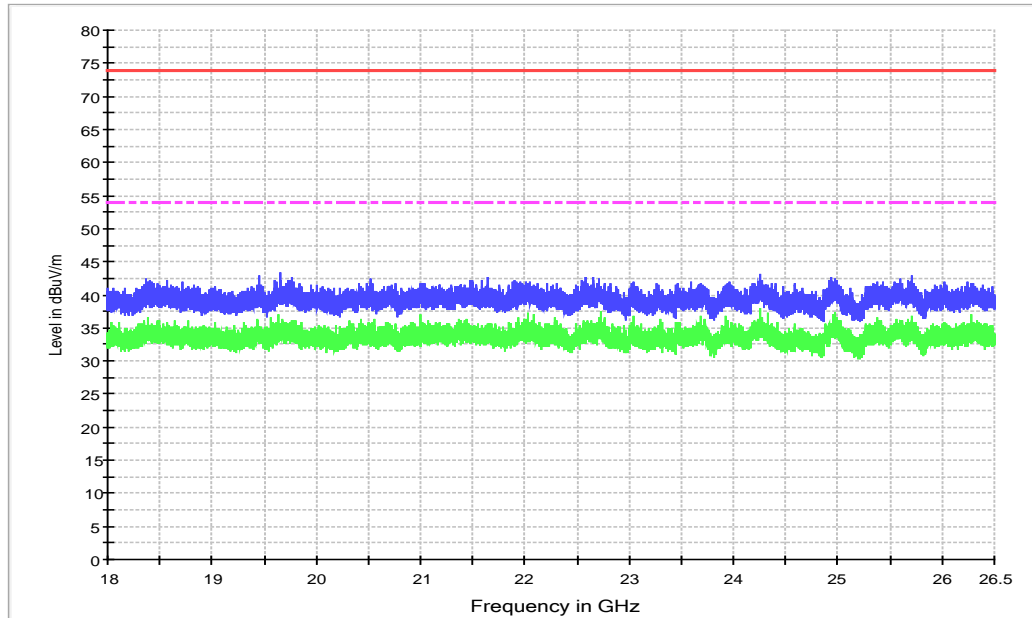
## Channel 50

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5121.415	57.5	-23.4	34.3	46.57	74.0	16.5	V
5143.605	57.6	-23.3	34.3	46.53	74.0	16.4	V
10500.200	45.6	-29.7	37.6	37.63	68.3	22.7	H
15749.950	51.7	-24.3	40.5	35.47	74.0	22.3	H
16808.700	55.0	-23.0	41.6	36.43	68.3	13.3	V
17091.950	56.6	-23.0	41.6	38.01	68.3	11.7	V

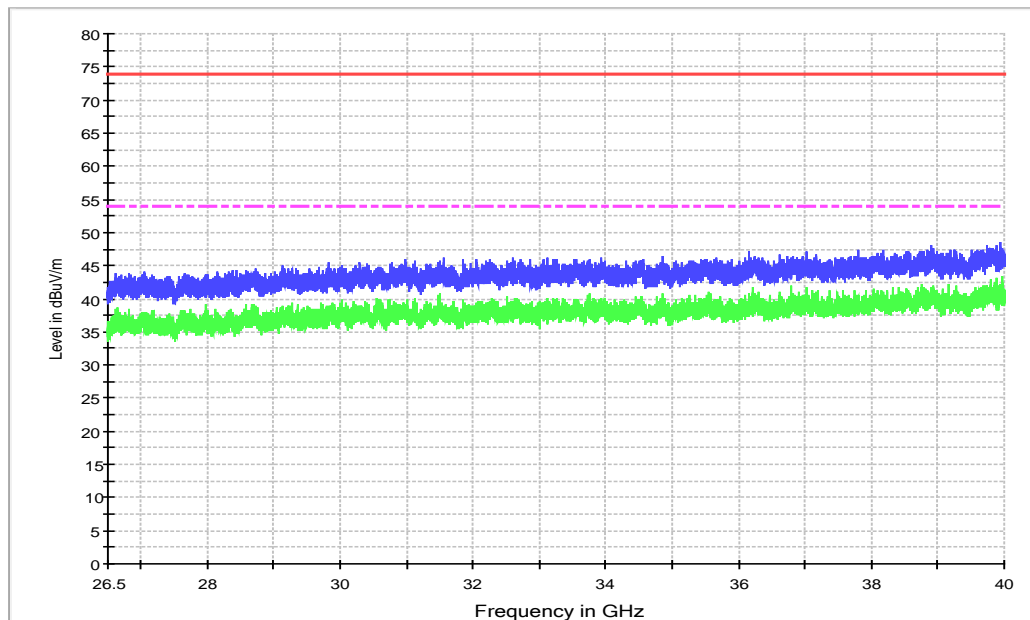
## Channel 114

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
5448.250	58.8	-22.7	34.6	46.92	74.0	15.2	V
5451.730	59.5	-22.7	34.6	47.63	74.0	14.5	V
11139.850	46.0	-30.4	38.1	38.33	74.0	28.0	V
16710.250	53.8	-23.1	41.5	35.42	68.3	14.5	H
16894.000	57.0	-23.0	41.6	38.40	68.3	11.3	H
17034.200	56.1	-23.0	41.7	37.42	68.3	12.2	H

### WOSRT CASE 18GHz-26.5 GHz



### WOSRT CASE 26.5GHz-40GHz

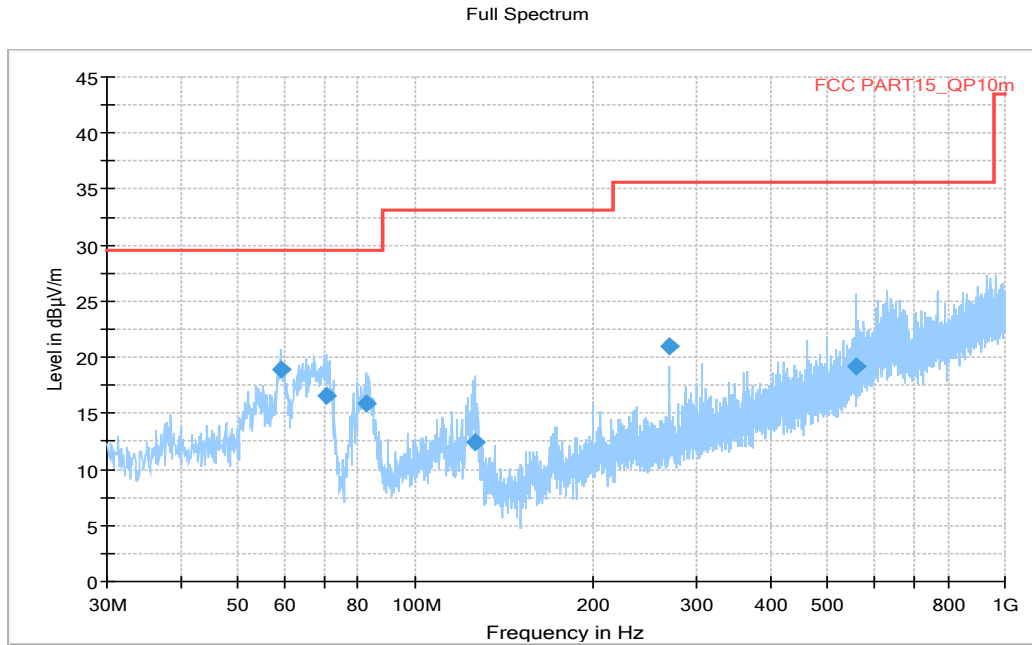


Note: the spurious emission above 18G is noise only

### C.1.2 Radiated Spurious Emission- Below 1GHz

#### WOSRT CASE BELOW 1GHz

- FCC Part 15C 30-1G Limit
- Peak Preview Result
- ◆ Final Result QPK



#### Final Result 1

Frequency (MHz)	QuasiPeak (dBµ V/m)	Limit (dBµ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
59.1	18.98	29.5	10.52	1000	120	295	V	1
70.546	16.63	29.5	12.87	1000	120	210	V	157
82.768	15.88	29.5	13.62	1000	120	125	V	294
126.321	12.49	33.1	20.61	1000	120	217	V	150
269.202	21.01	35.6	14.59	1000	120	107	V	300
560.202	19.25	35.6	16.35	1000	120	324	V	-1

Note: 10 meters' limit is got by converting from 3 meters test distance.  
 Limit (10m) = limit (3m) + 20(log (3/10))

#### BELOW 30MHz

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

### C.1.3 Band Edges Compliance– Radiated

#### INPAQ:

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.1	P
	5320 MHz	Fig.2	P
	5500 MHz	Fig.3	P
	5700 MHz	Fig.4	P
802.11n HT20	5180 MHz	Fig.5	P
	5320 MHz	Fig.6	P
	5500 MHz	Fig.7	P
	5700 MHz	Fig.8	P
802.11ac HT20	5180 MHz	Fig.9	P
	5320 MHz	Fig.10	P
	5500 MHz	Fig.11	P
	5700 MHz	Fig.12	P
802.11n HT40	5190 MHz	Fig.13	P
	5310 MHz	Fig.14	P
	5510 MHz	Fig.15	P
	5670 MHz	Fig.16	P
802.11ac HT40	5190 MHz	Fig.17	P
	5310 MHz	Fig.18	P
	5510 MHz	Fig.19	P
	5670 MHz	Fig.20	P
802.11ac HT80	5210MHz	Fig.21	P
	5290MHz	Fig.22	P
	5530MHz	Fig.23	P
802.11ax HT80	5210MHz	Fig.24	P
	5290MHz	Fig.25	P
	5530MHz	Fig.26	P
802.11ac HT160	5250MHz	Fig.27	P
	5250MHz	Fig.28	P
	5570MHz	Fig.29	P
802.11ax HT160	5250MHz	Fig.30	P
	5250MHz	Fig.31	P
	5570MHz	Fig.32	P

**Conclusion: PASS**

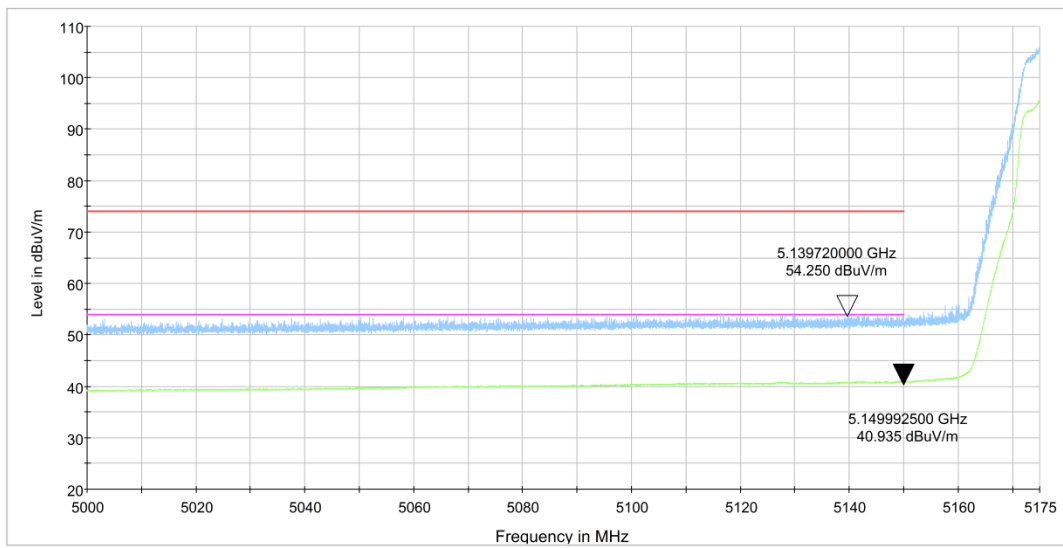
**SPEED:**

Mode	Channel	Test Results	Conclusion
802.11a	5180 MHz	Fig.33	P
	5320 MHz	Fig.34	P
	5500 MHz	Fig.35	P
	5700 MHz	Fig.36	P
802.11n HT20	5180 MHz	Fig.37	P
	5320 MHz	Fig.38	P
	5500 MHz	Fig.39	P
	5700 MHz	Fig.40	P
802.11ac HT20	5180 MHz	Fig.41	P
	5320 MHz	Fig.42	P
	5500 MHz	Fig.43	P
	5700 MHz	Fig.44	P
802.11n HT40	5190 MHz	Fig.45	P
	5310 MHz	Fig.46	P
	5510 MHz	Fig.47	P
	5670 MHz	Fig.48	P
802.11ac HT40	5190 MHz	Fig.49	P
	5310 MHz	Fig.50	P
	5510 MHz	Fig.51	P
	5670 MHz	Fig.52	P
802.11ac HT80	5210MHz	Fig.53	P
	5290MHz	Fig.54	P
	5530MHz	Fig.55	P
802.11ax HT80	5210MHz	Fig.56	P
	5290MHz	Fig.57	P
	5530MHz	Fig.58	P
802.11ac HT160	5250MHz	Fig.59	P
	5250MHz	Fig.60	P
	5570MHz	Fig.61	P
802.11ax HT160	5250MHz	Fig.62	P
	5250MHz	Fig.63	P
	5570MHz	Fig.64	P

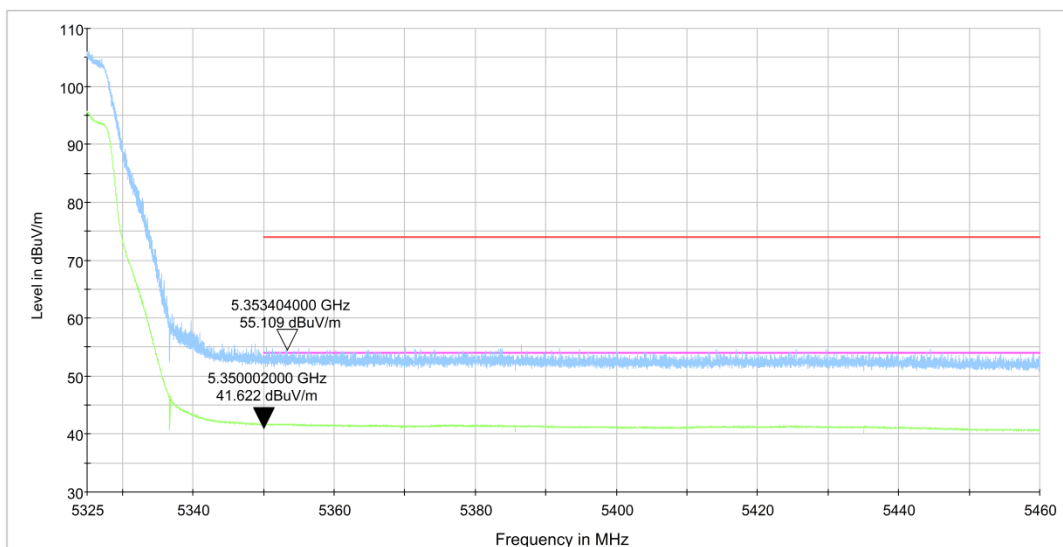
**Conclusion: PASS**



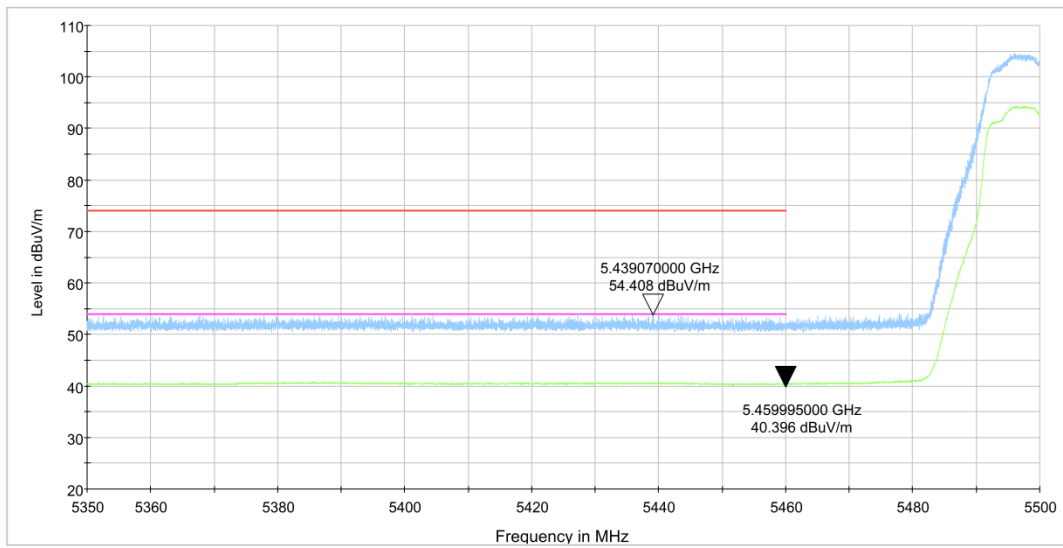
Test graphs as below:



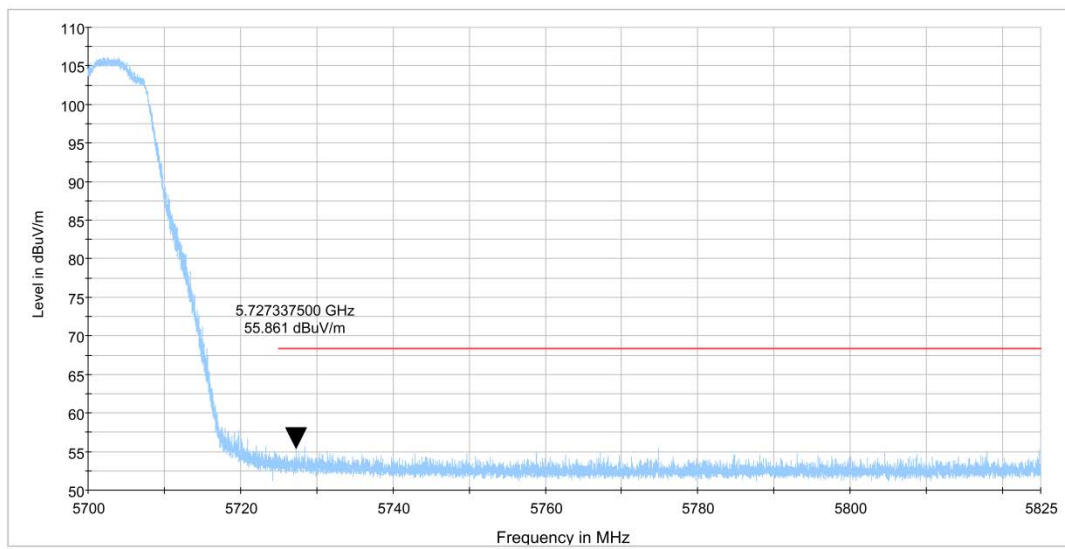
**Fig.1 Band Edges (802.11a, 5180MHz)**



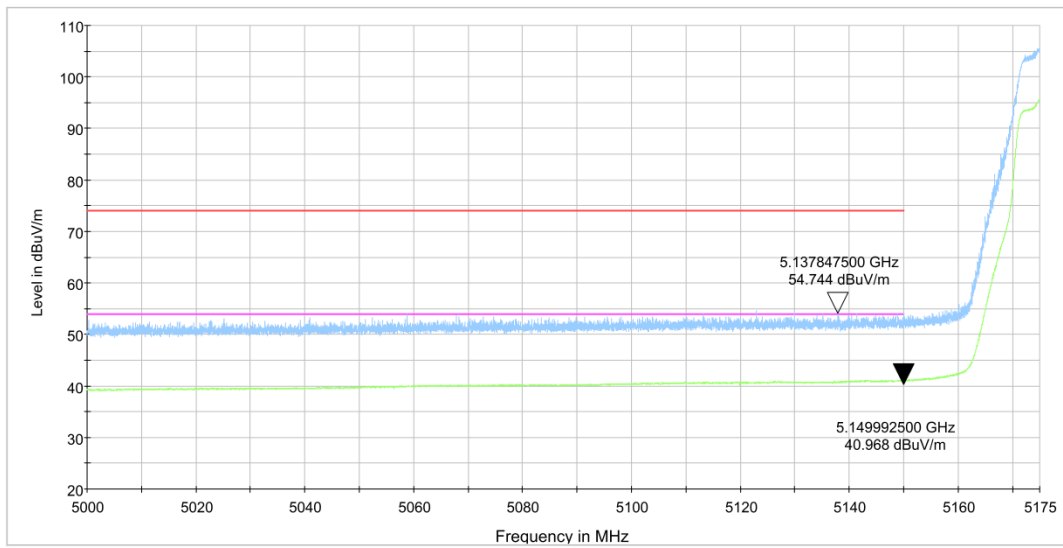
**Fig.2 Band Edges (802.11a, 5320MHz)**



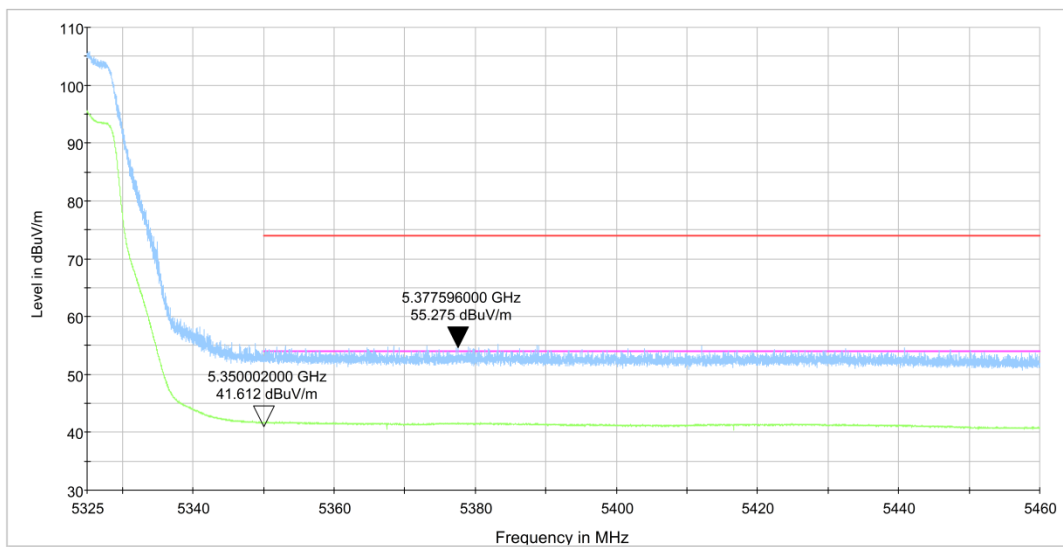
**Fig.3 Band Edges (802.11a, 5500MHz)**



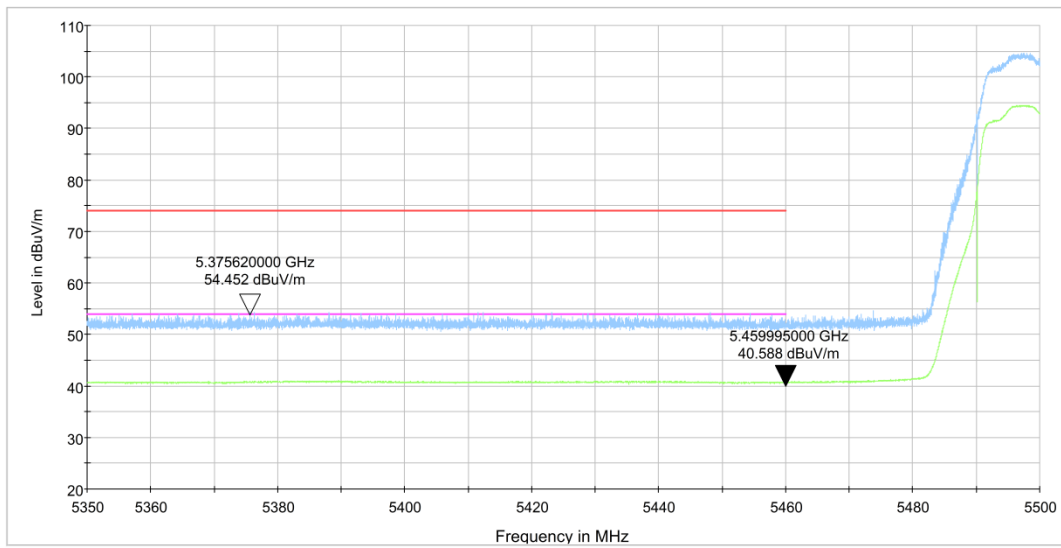
**Fig.4 Band Edges (802.11a, 5700MHz)**



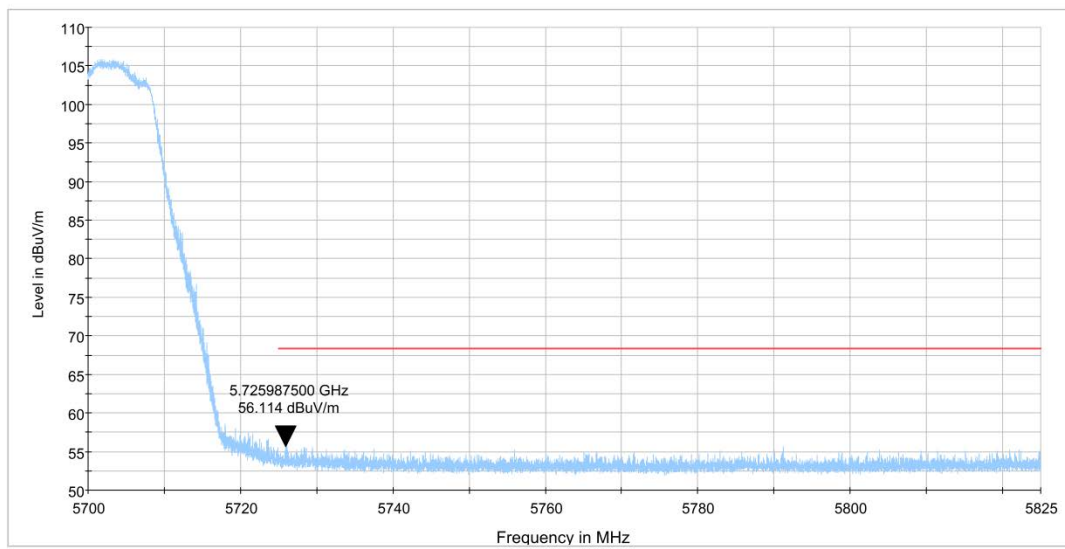
**Fig.5 Band Edges (802.11n-HT20, 5180MHz)**



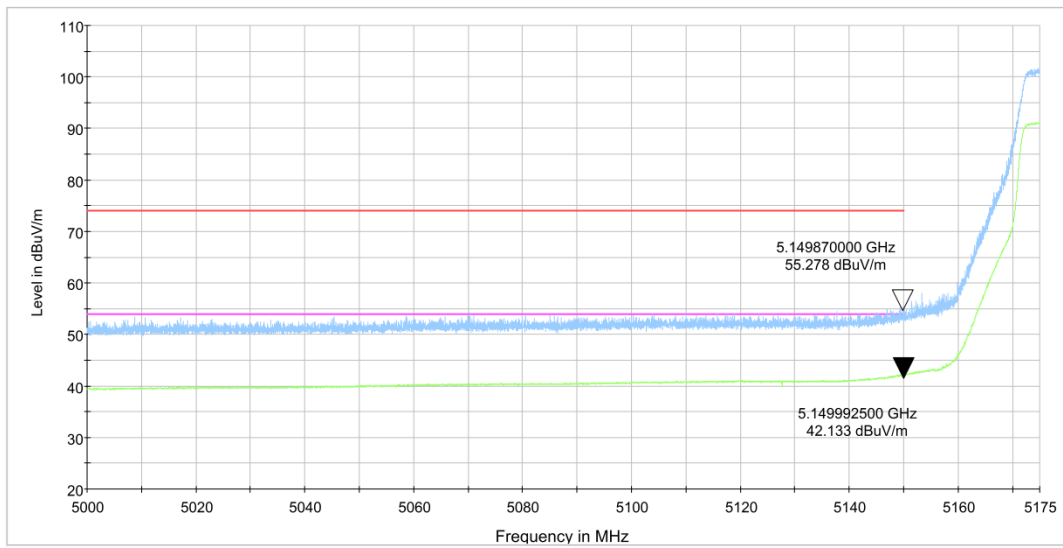
**Fig.6 Band Edges (802.11n-HT20, 5320MHz)**



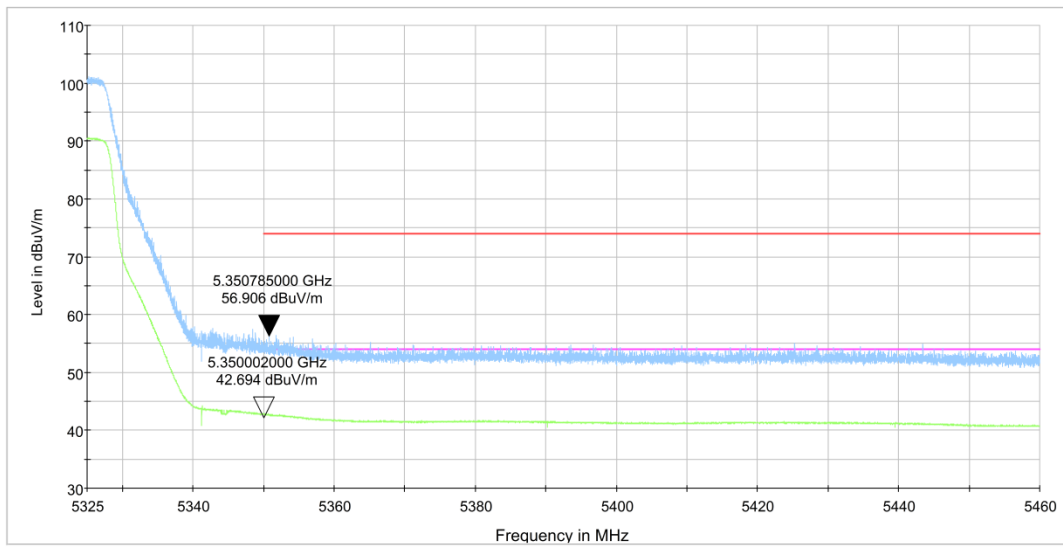
**Fig.7 Band Edges (802.11n-HT20, 5500MHz)**



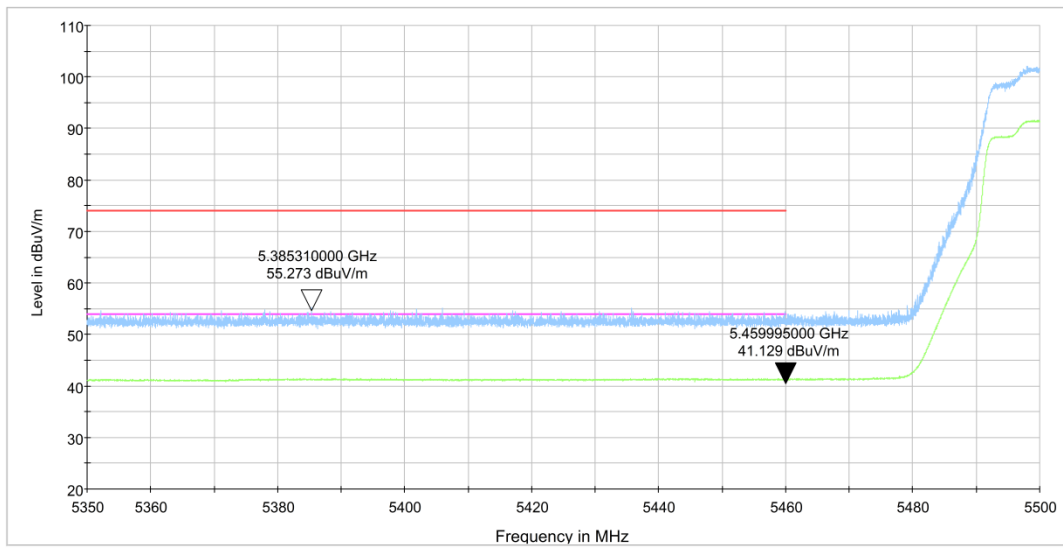
**Fig.8 Band Edges (802.11n-HT20, 5700MHz)**



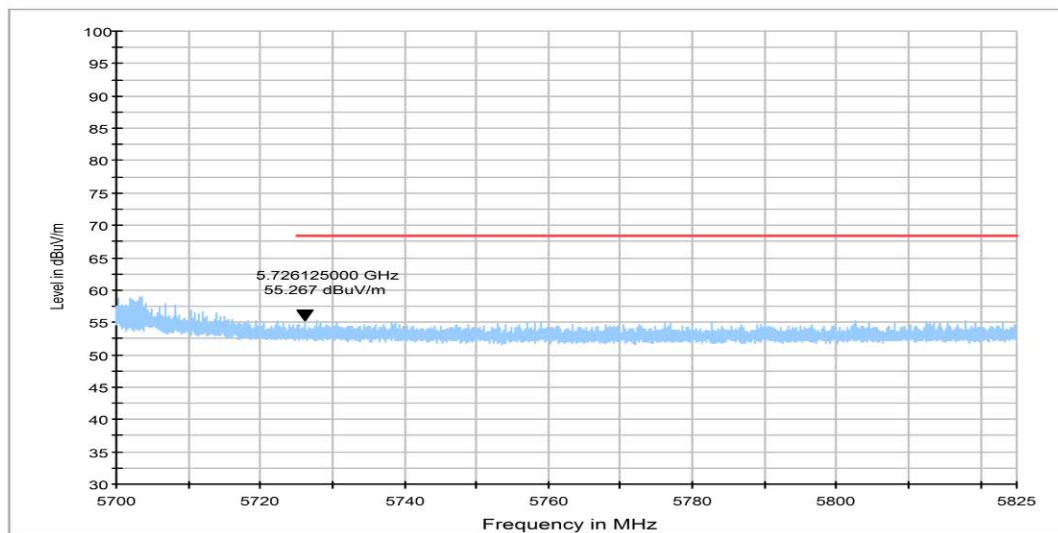
**Fig.9 Band Edges (802.11n-HT40, 5190MHz)**



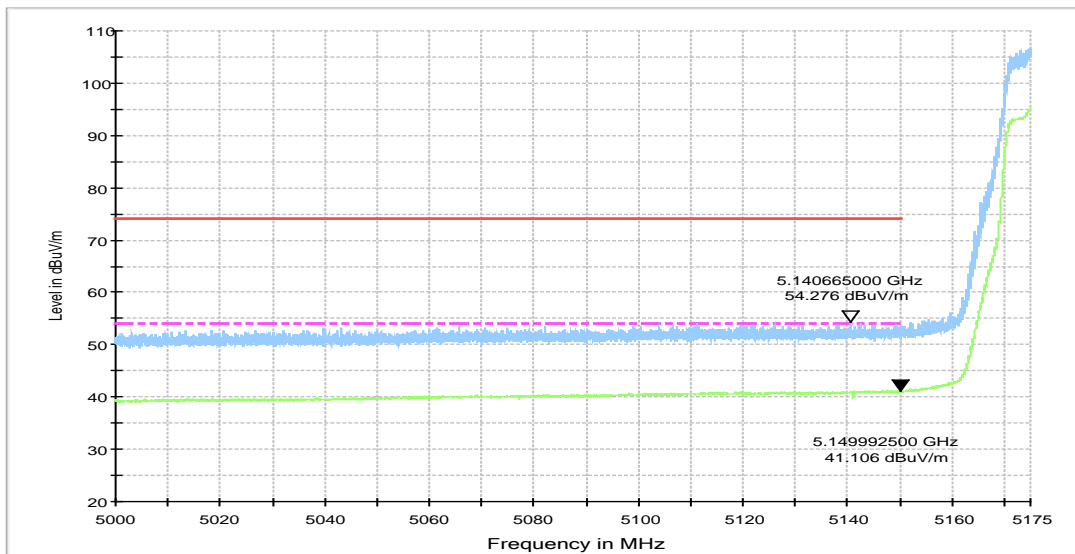
**Fig.10 Band Edges (802.11n-HT40, 5310MHz)**



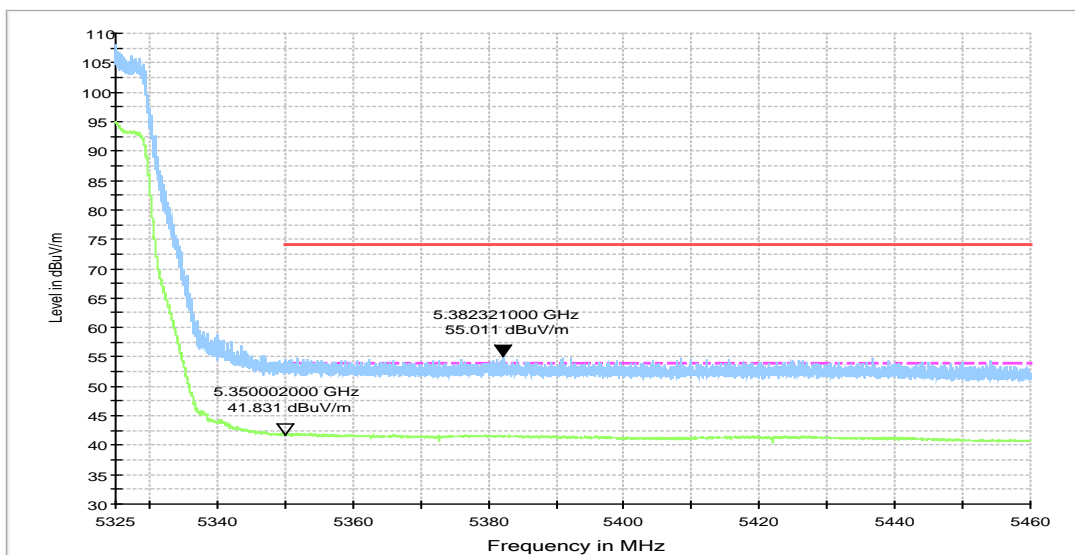
**Fig.11 Band Edges (802.11n-HT40, 5510MHz)**



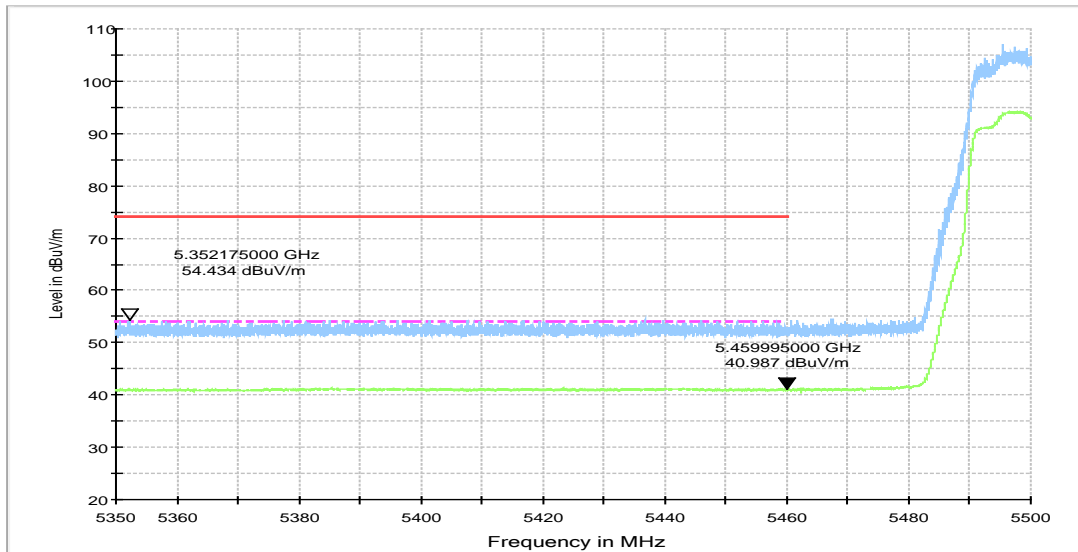
**Fig.12 Band Edges (802.11n-HT40, 5670MHz)**



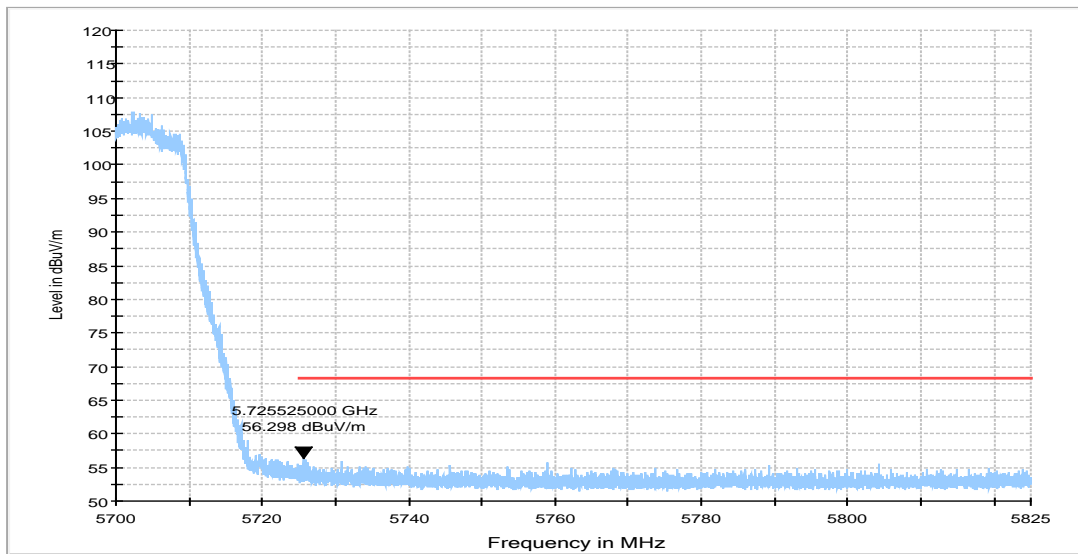
**Fig.13 Band Edges (802.11ax-HT20, 5180MHz)**



**Fig.14 Band Edges (802.11ax-HT20, 5320MHz)**

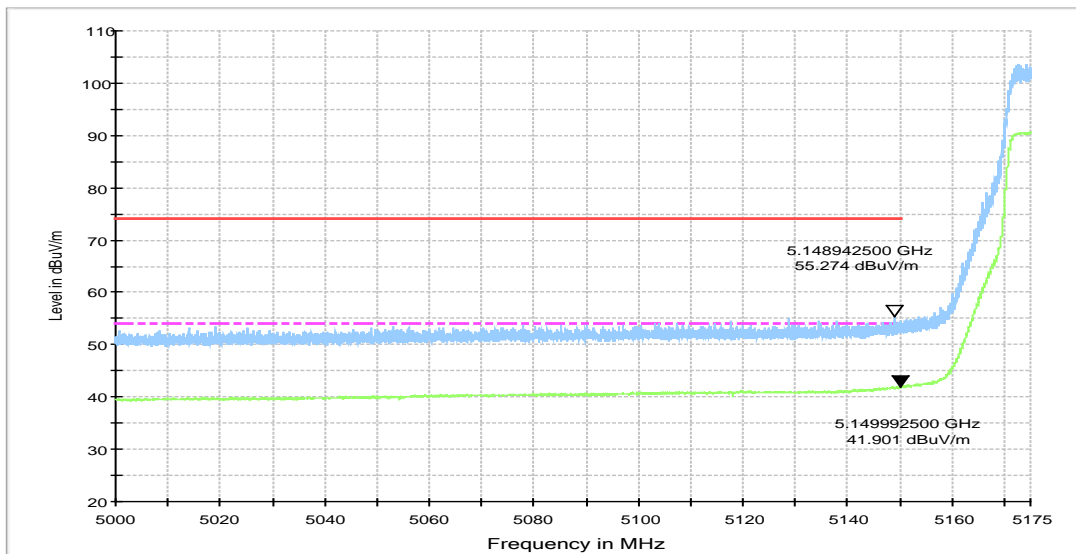


**Fig.15 Band Edges (802.11ax-HT20, 5500MHz)**

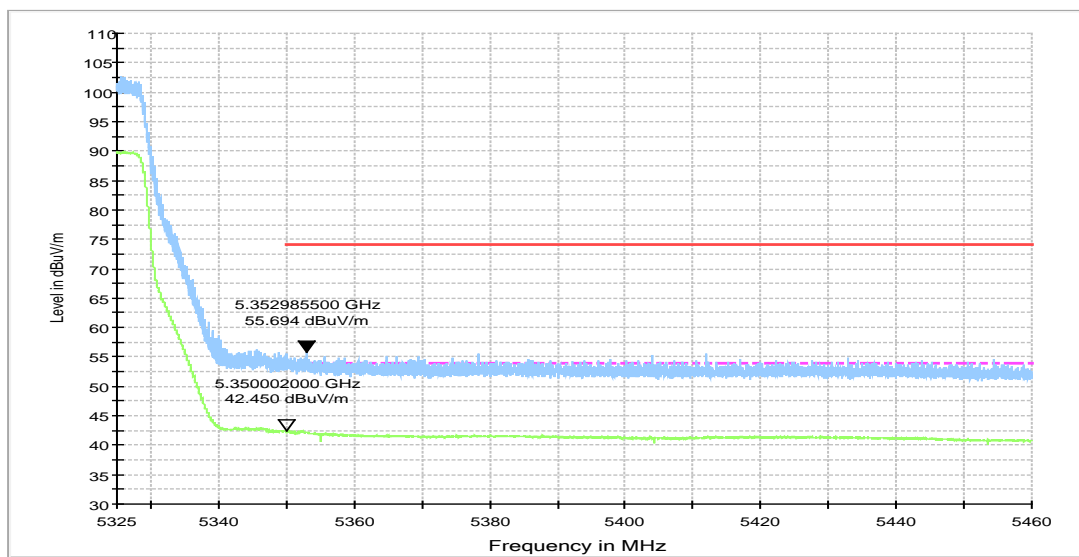


**Fig.16 Band Edges (802.11ax-HT20, 5700MHz)**

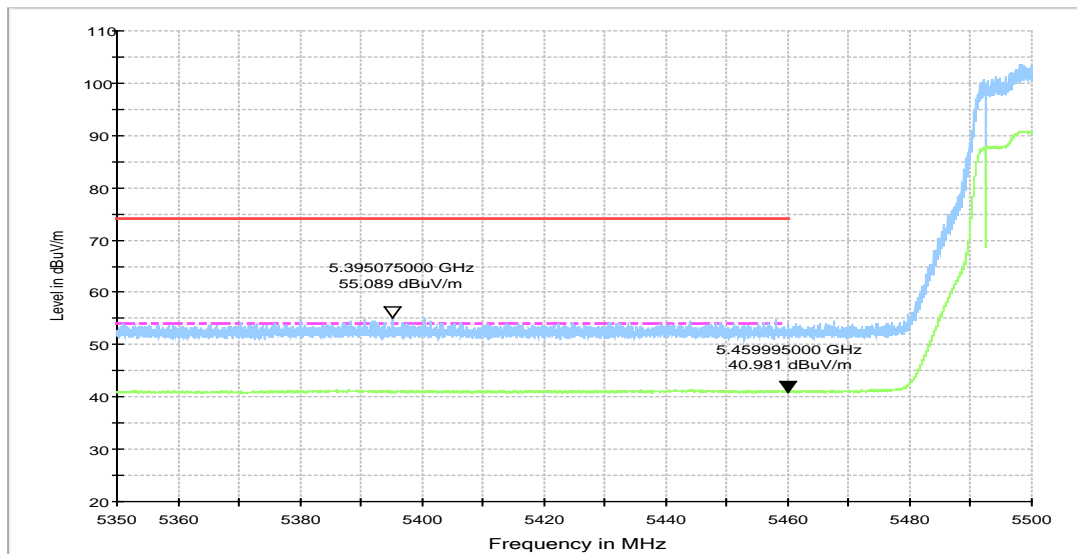




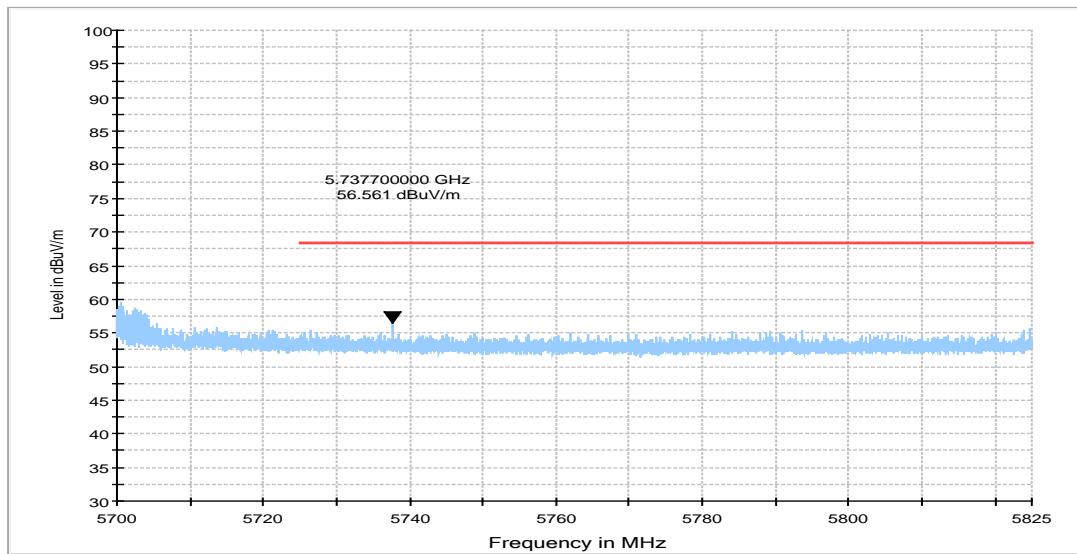
**Fig.17 Band Edges (802.11ax-HT40, 5190MHz)**



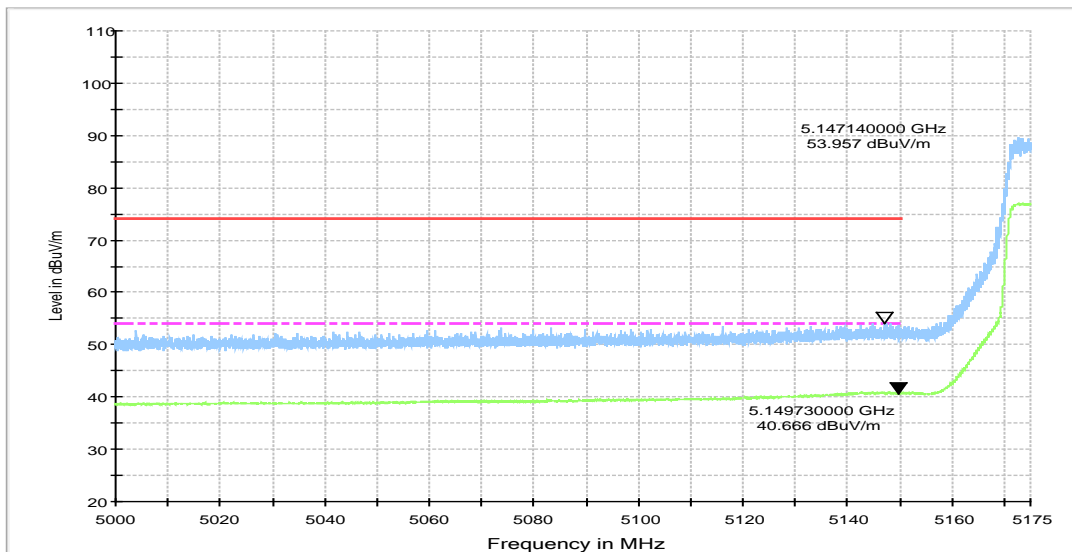
**Fig.18 Band Edges (802.11ax-HT40, 5310MHz)**



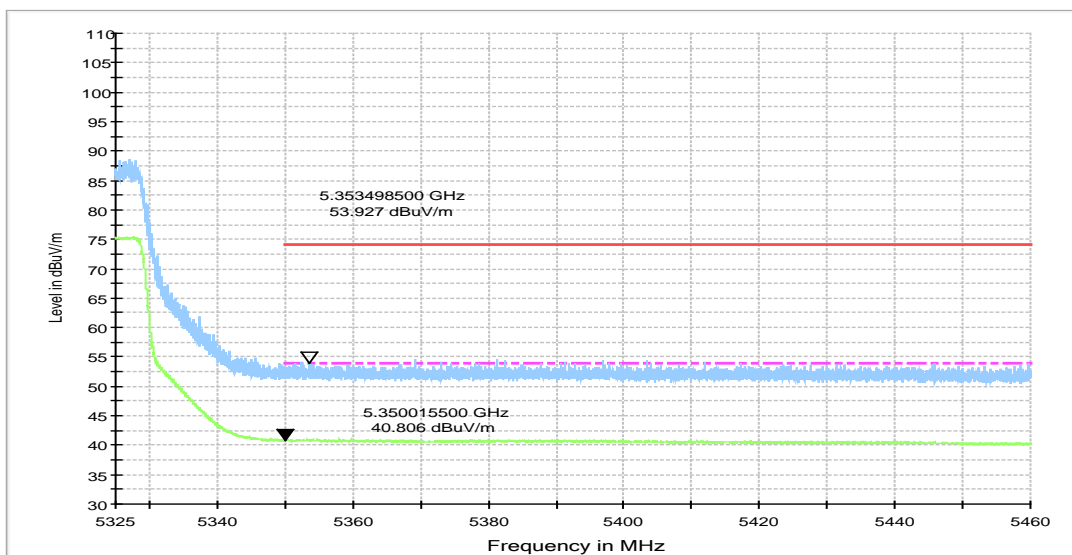
**Fig.19 Band Edges (802.11ax-HT40, 5510MHz)**



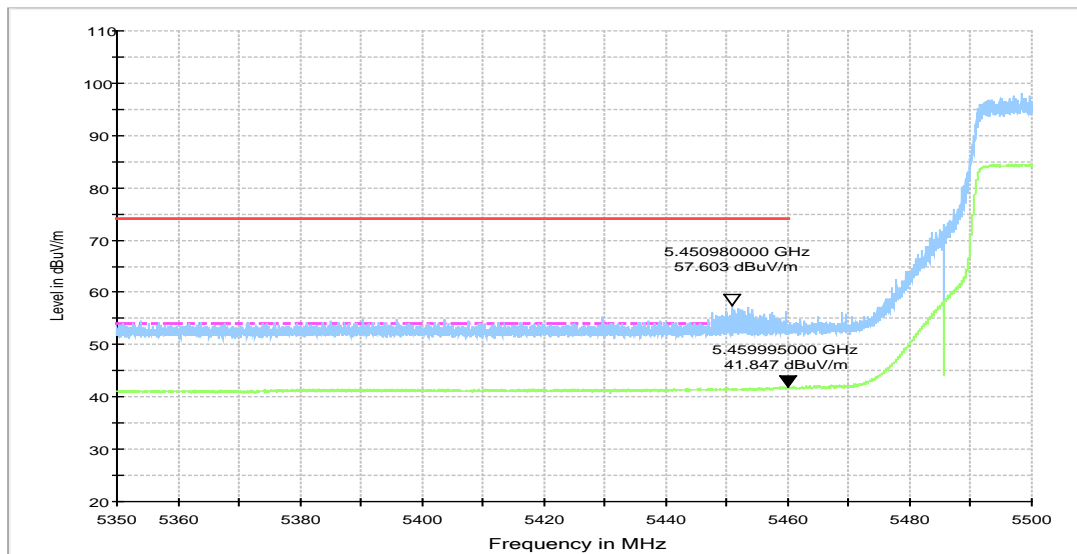
**Fig.20 Band Edges (802.11ax-HT40, 5670MHz)**



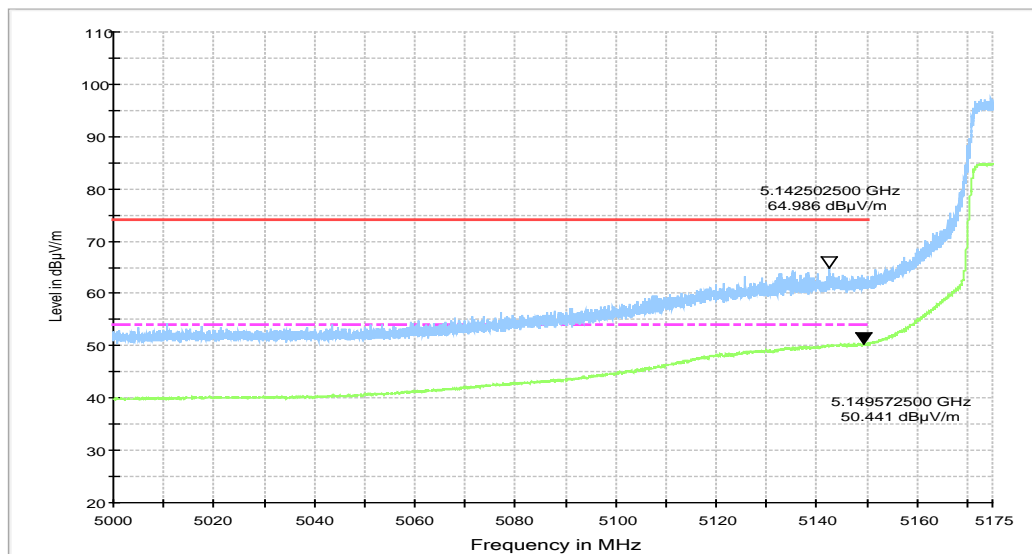
**Fig.21 Band Edges (802.11ax-HT80, 5210MHz)**



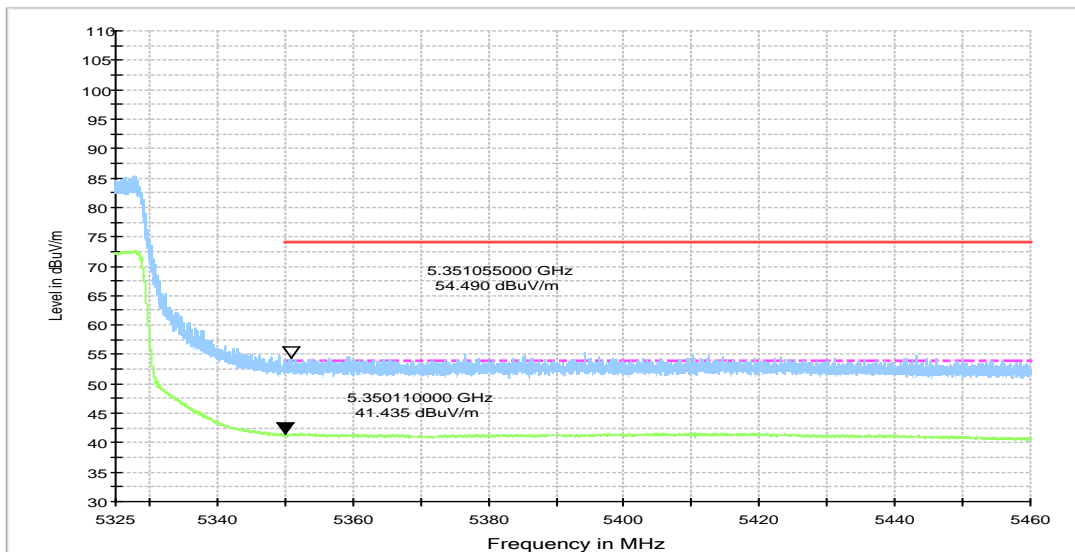
**Fig.22 Band Edges (802.11ax-HT80, 5290MHz)**



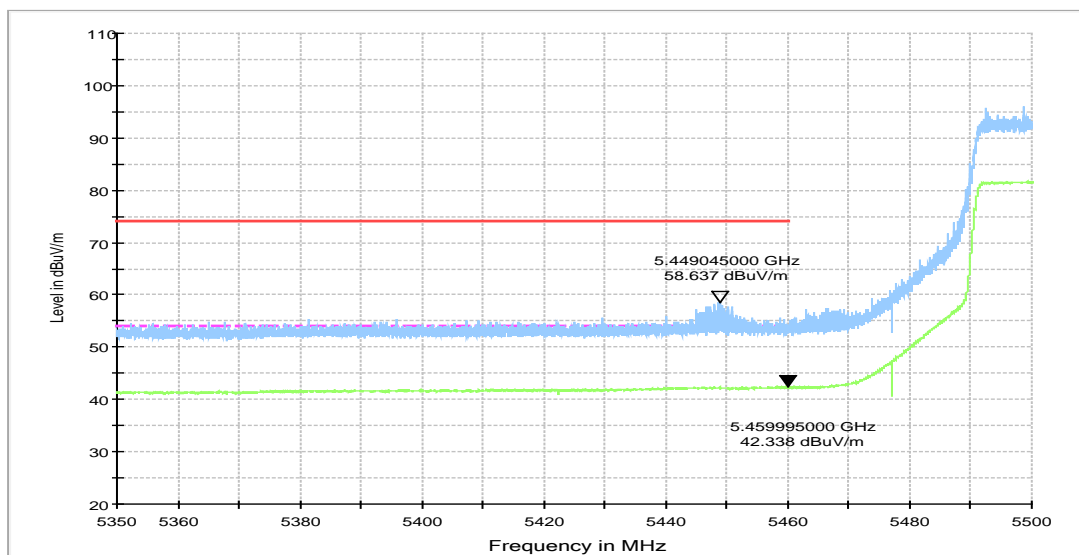
**Fig.23 Band Edges (802.11ax-HT80, 5530MHz)**



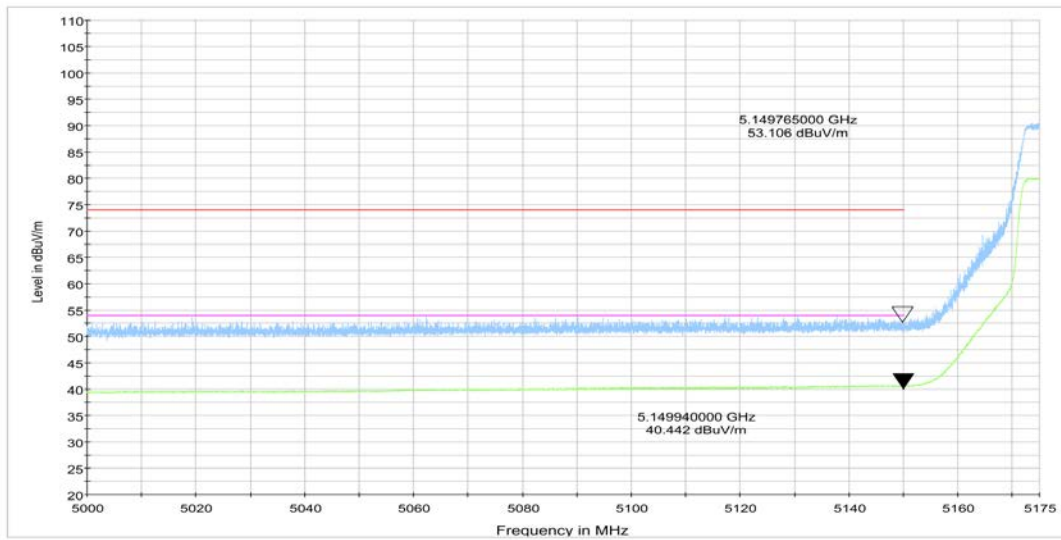
**Fig.24 Band Edges (802.11ax-HT160, 5250MHz)**



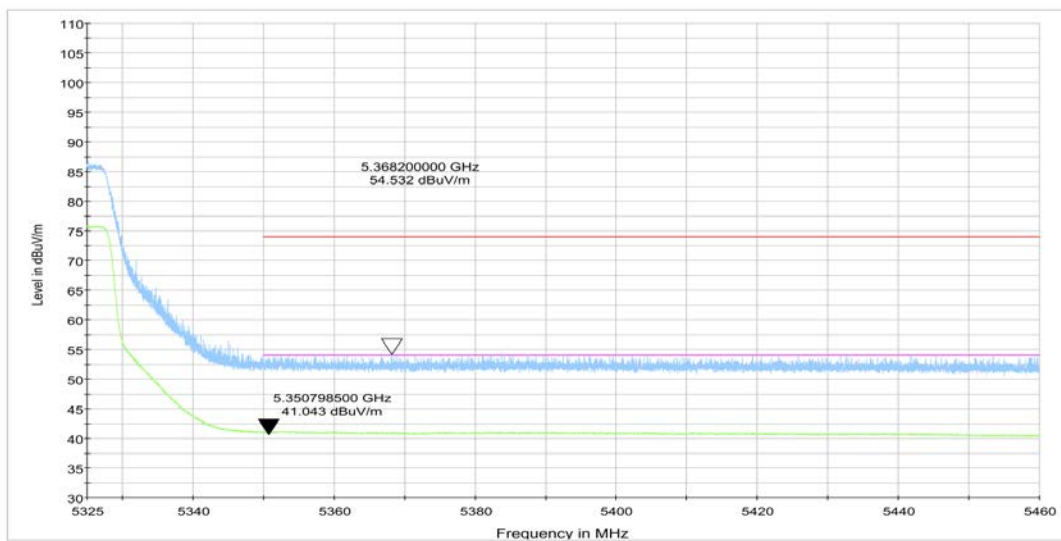
**Fig.25 Band Edges (802.11ax-HT160, 5250MHz)**



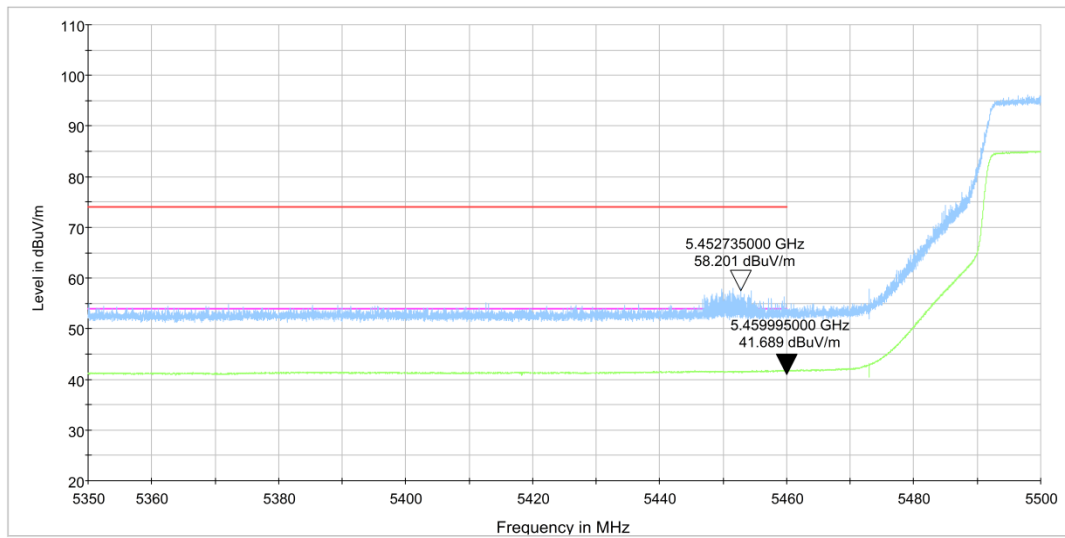
**Fig.26 Band Edges (802.11ax-HT160, 5570MHz)**



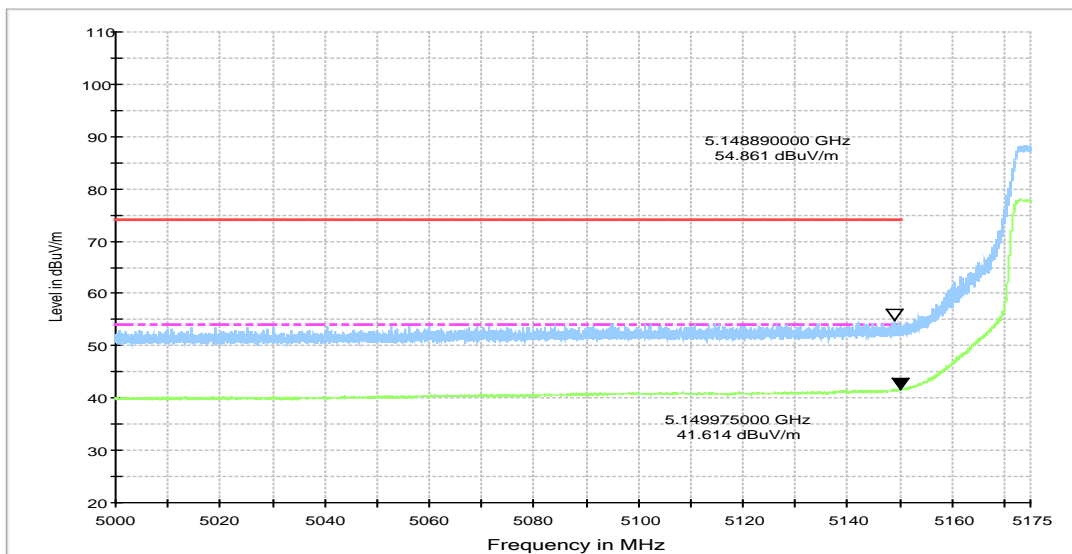
**Fig.27 Band Edges (802.11ac-HT80, 5210MHz)**



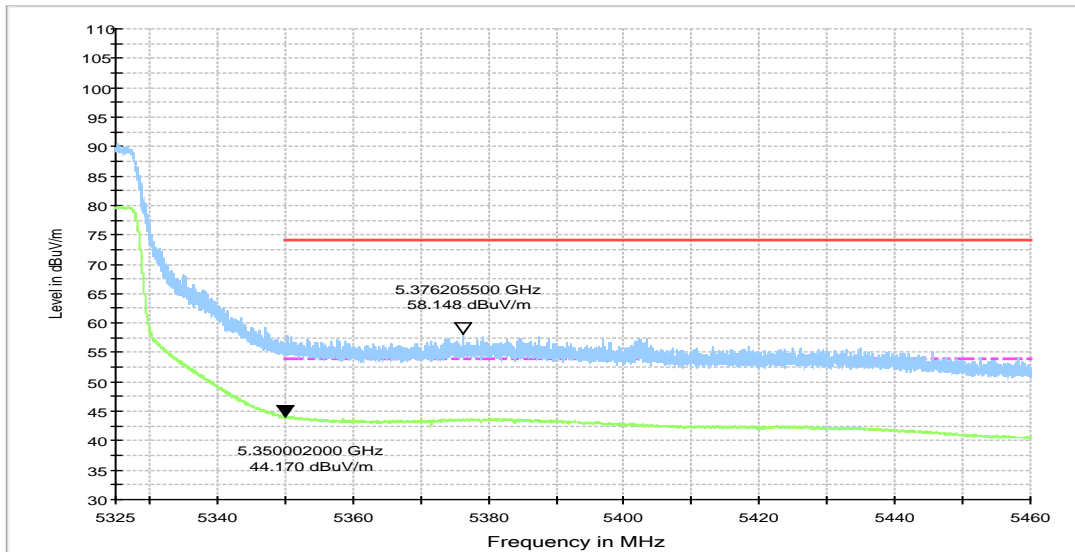
**Fig.28 Band Edges (802.11ac-HT80, 5290MHz)**



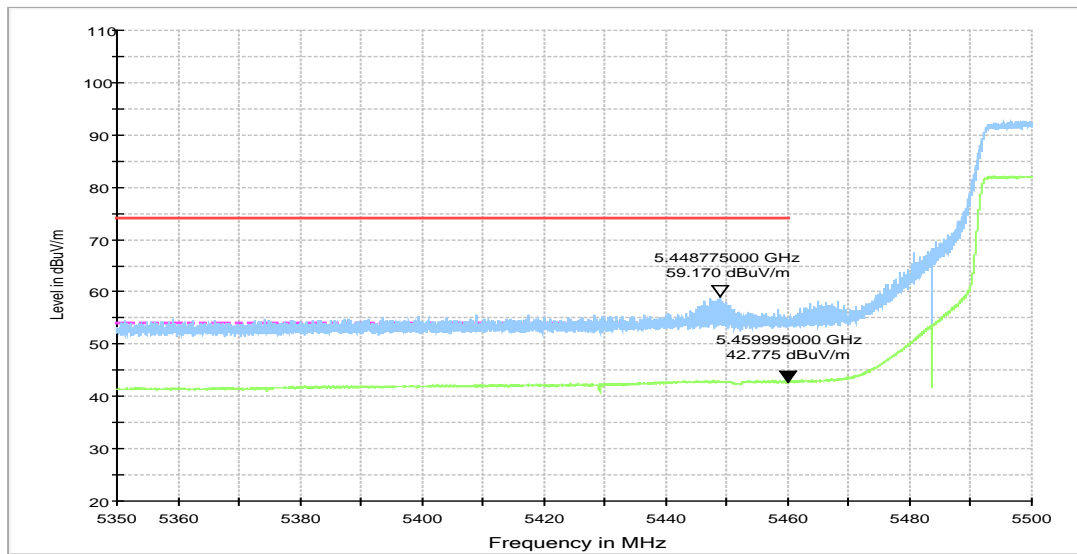
**Fig.29 Band Edges (802.11ac-HT80, 5530MHz)**



**Fig.30 Band Edges (802.11ac-HT160, 5250MHz)**

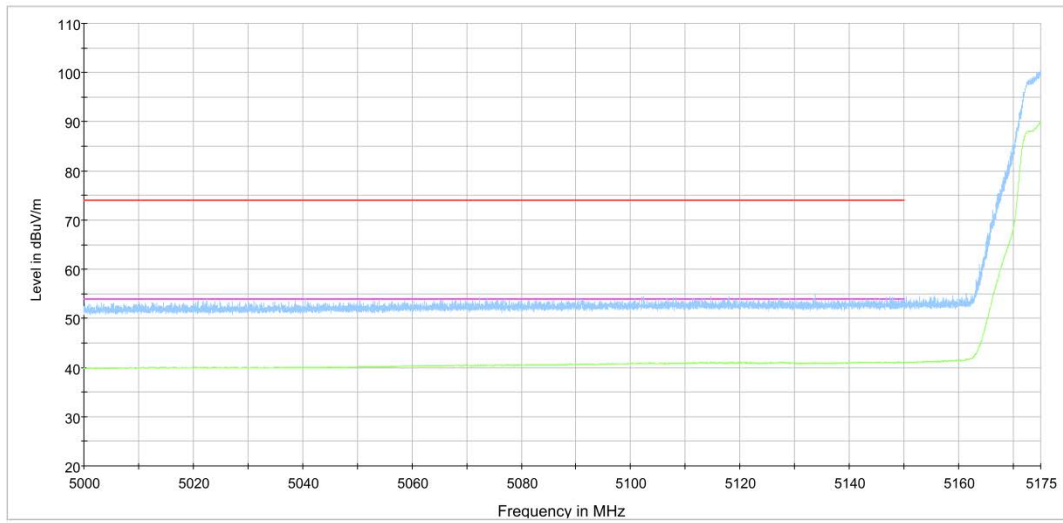


**Fig.31 Band Edges (802.11ac-HT160, 5250MHz)**

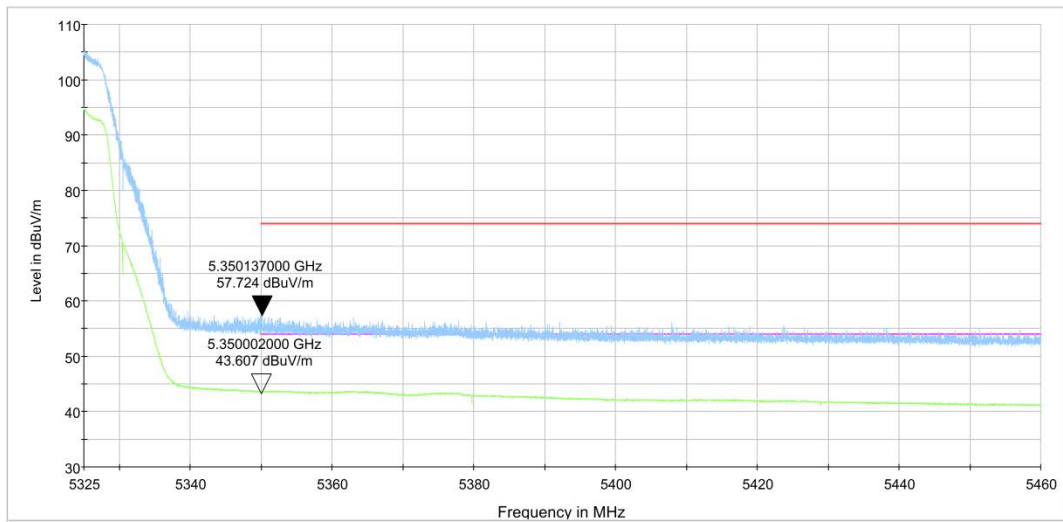


**Fig.32 Band Edges (802.11ac-HT160, 5570MHz)**

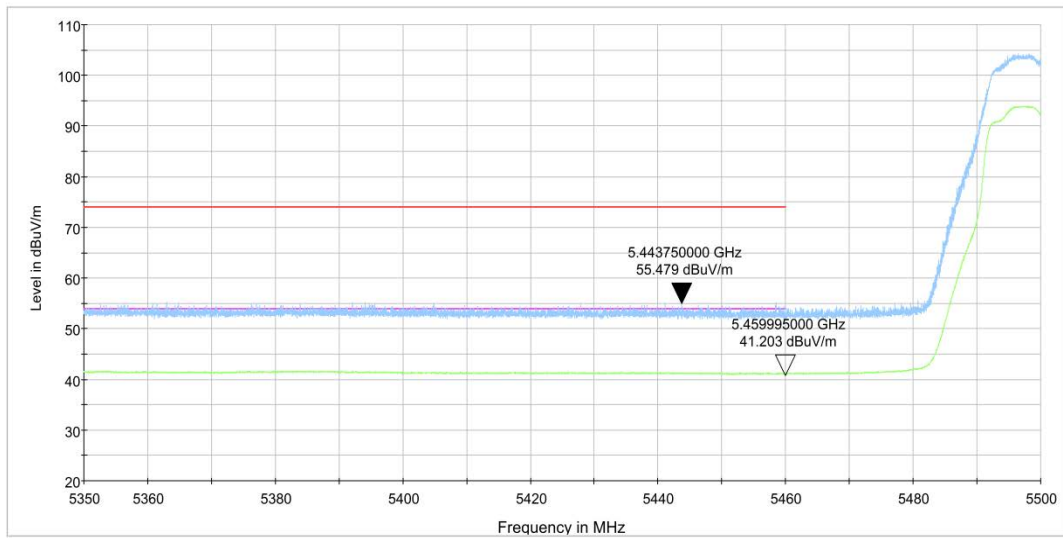




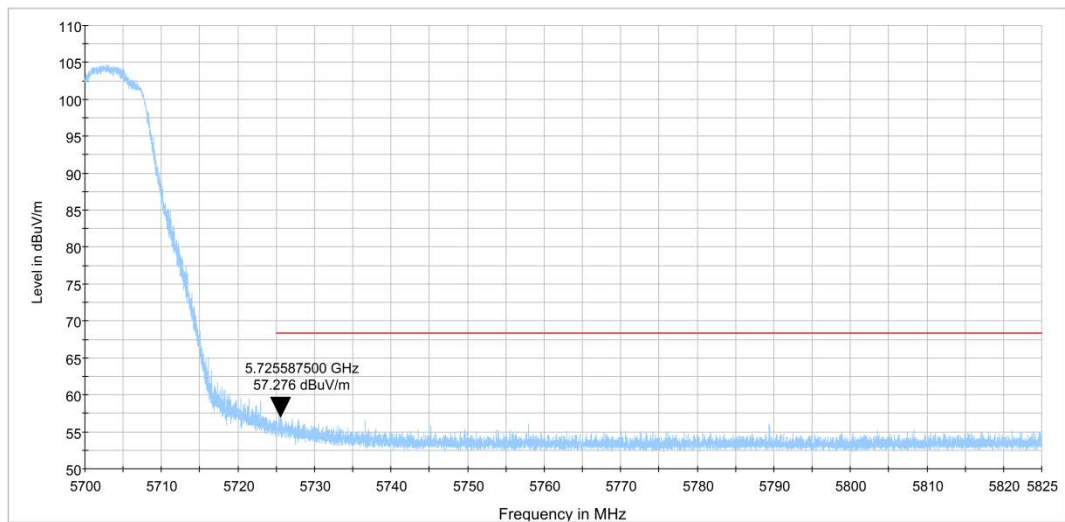
**Fig.33 Band Edges (802.11a, 5180MHz)**



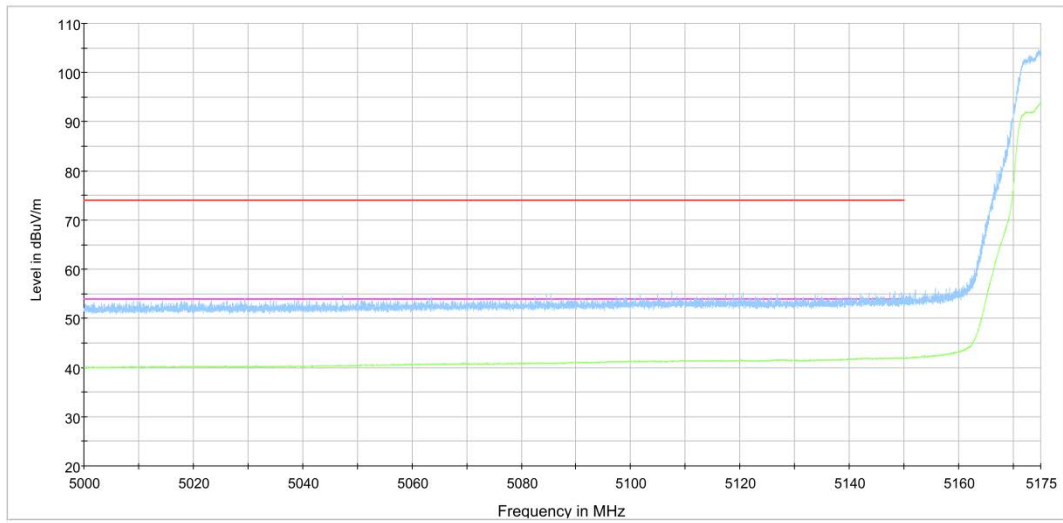
**Fig.34 Band Edges (802.11a, 5320MHz)**



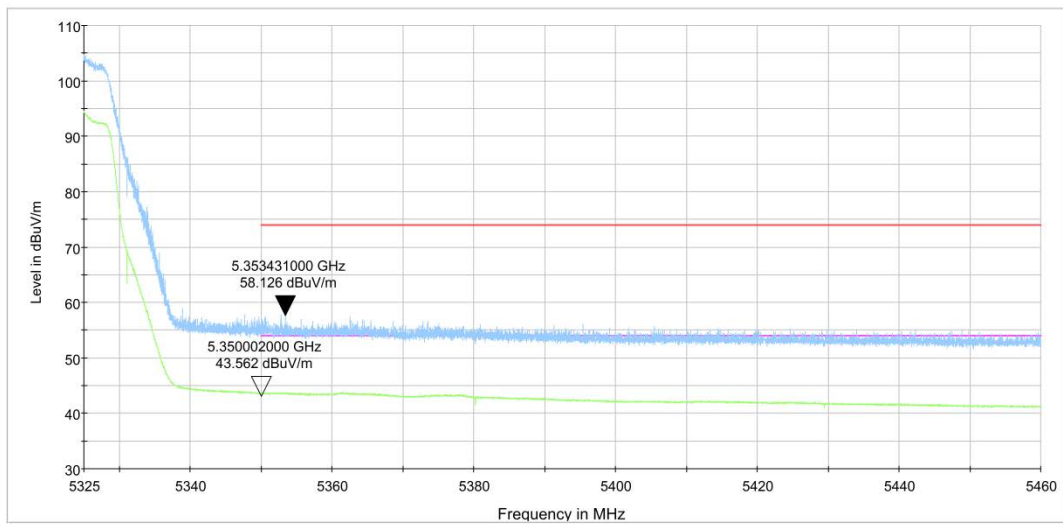
**Fig.35 Band Edges (802.11a, 5500MHz)**



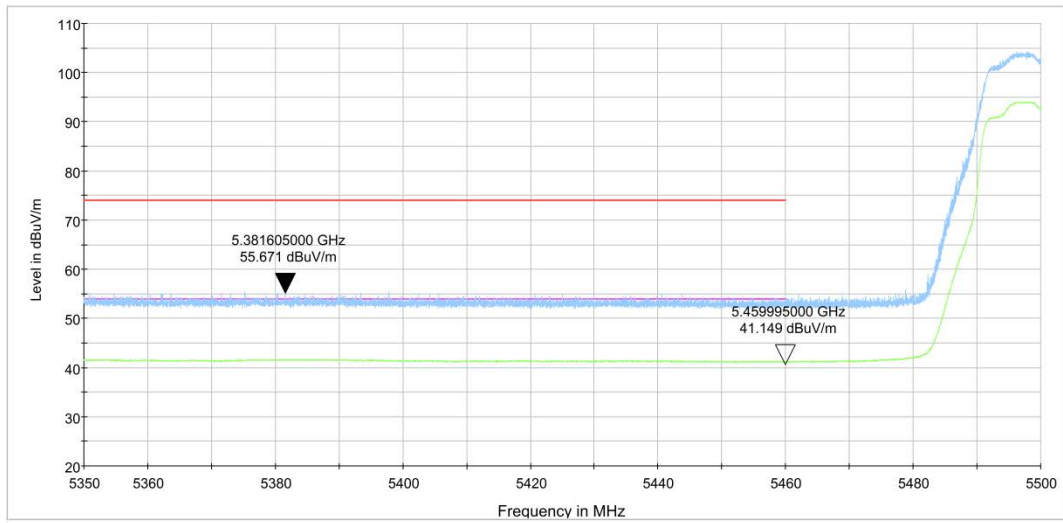
**Fig.36 Band Edges (802.11a, 5700MHz)**



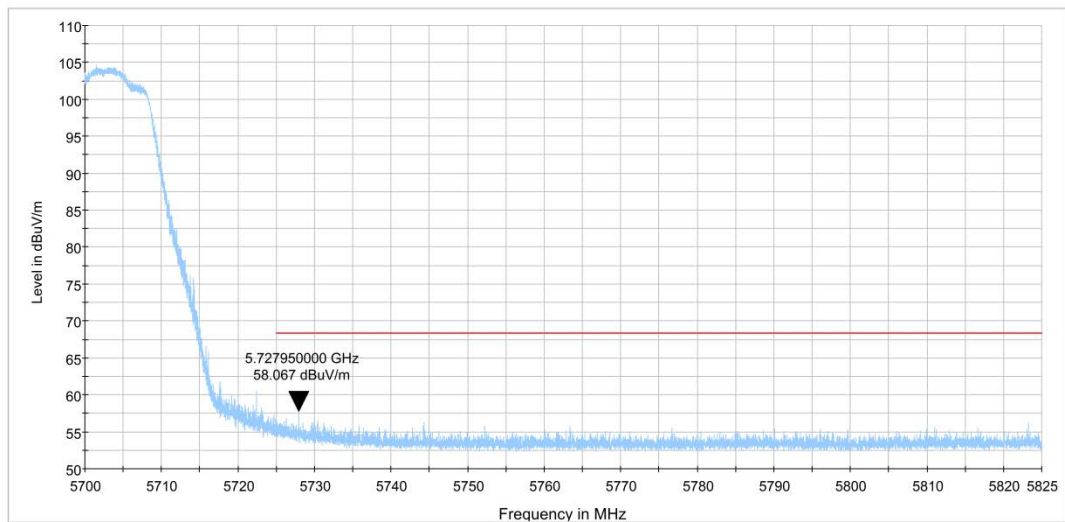
**Fig.37 Band Edges (802.11n-HT20, 5180MHz)**



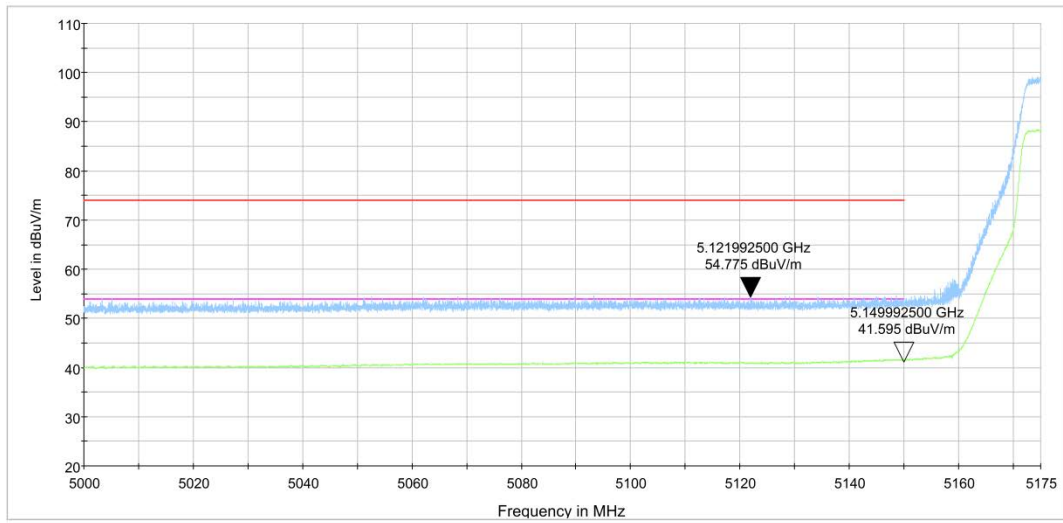
**Fig.38 Band Edges (802.11n-HT20, 5320MHz)**



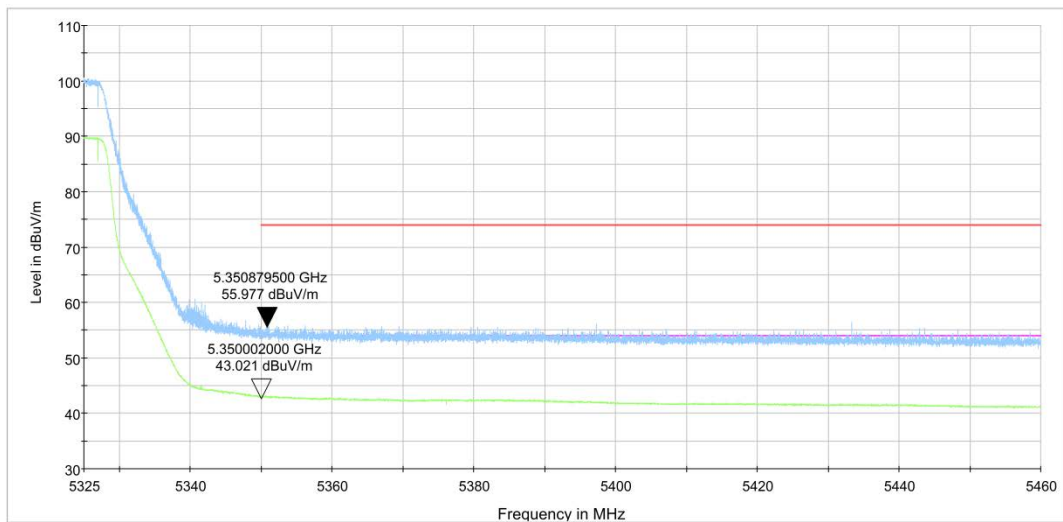
**Fig.39 Band Edges (802.11n-HT20, 5500MHz)**



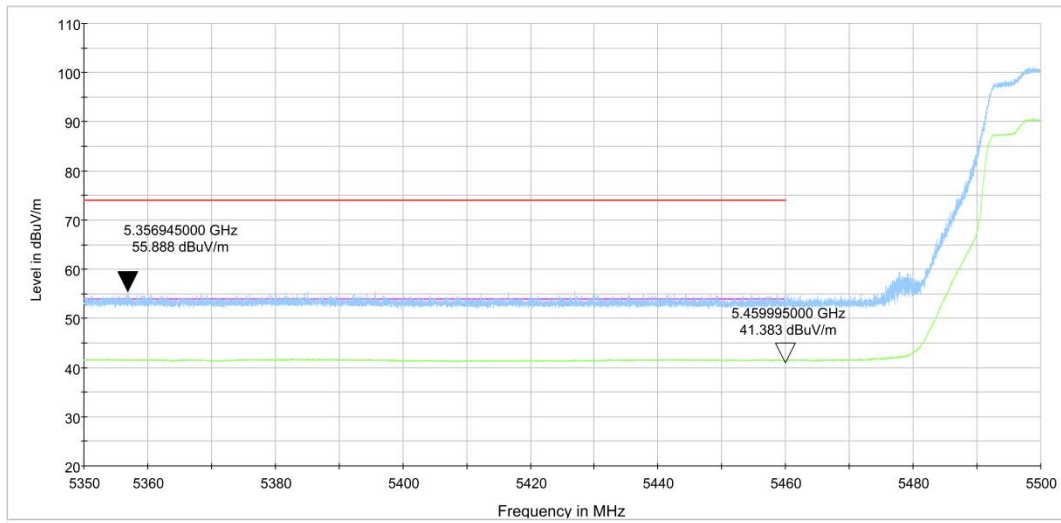
**Fig.40 Band Edges (802.11n-HT20, 5700MHz)**



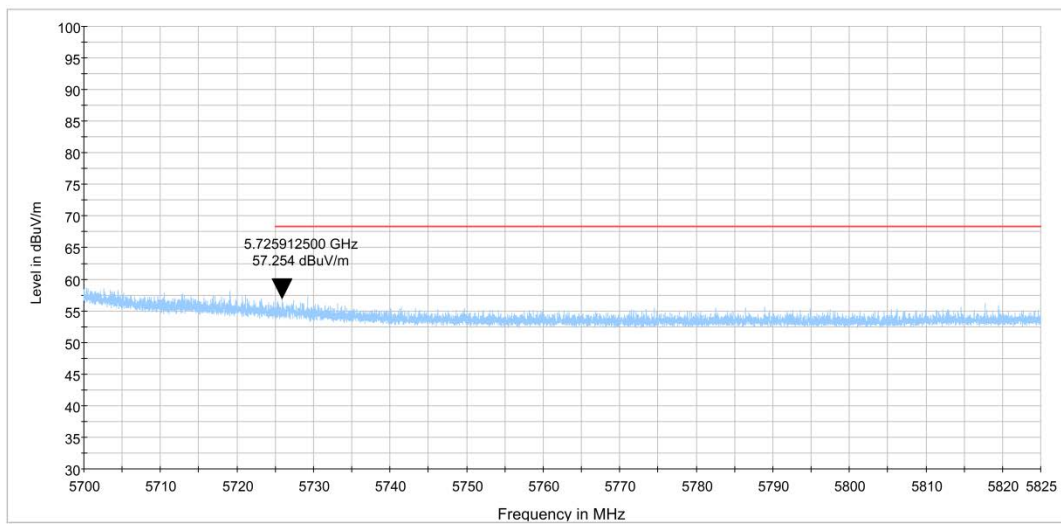
**Fig.41 Band Edges (802.11n-HT40, 5190MHz)**



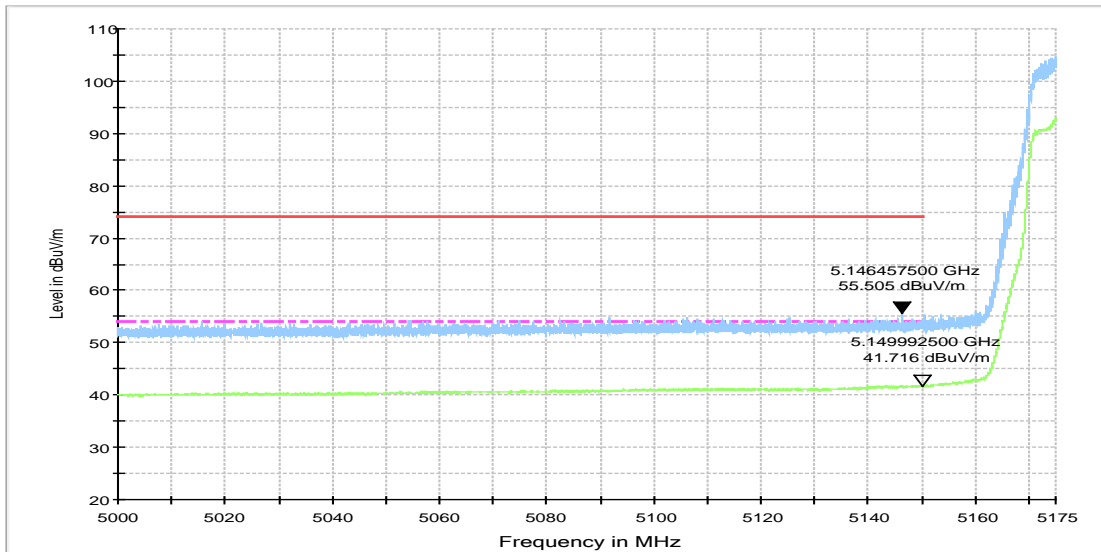
**Fig.42 Band Edges (802.11n-HT40, 5310MHz)**



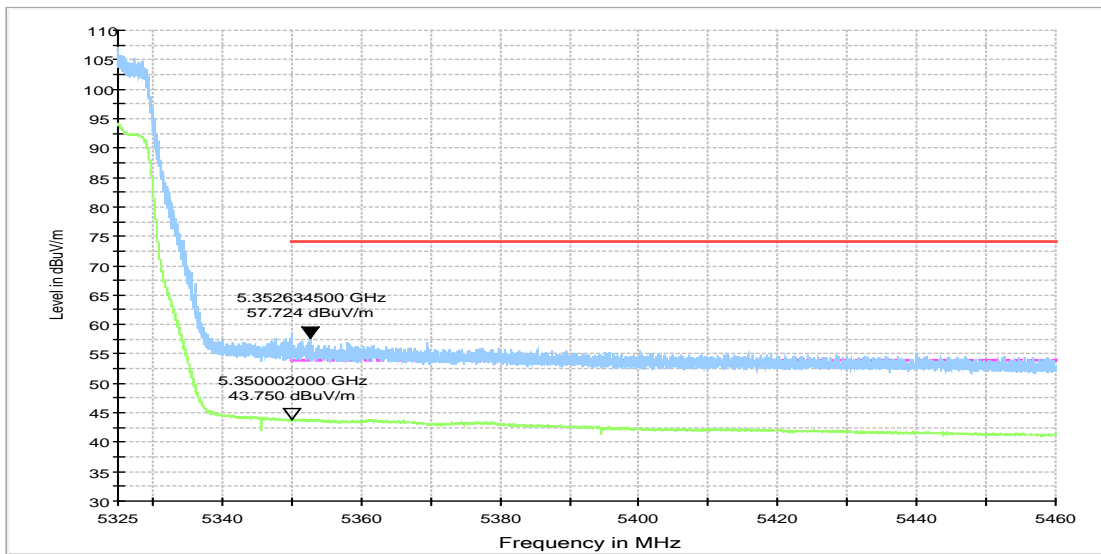
**Fig.43 Band Edges (802.11n-HT40, 5510MHz)**



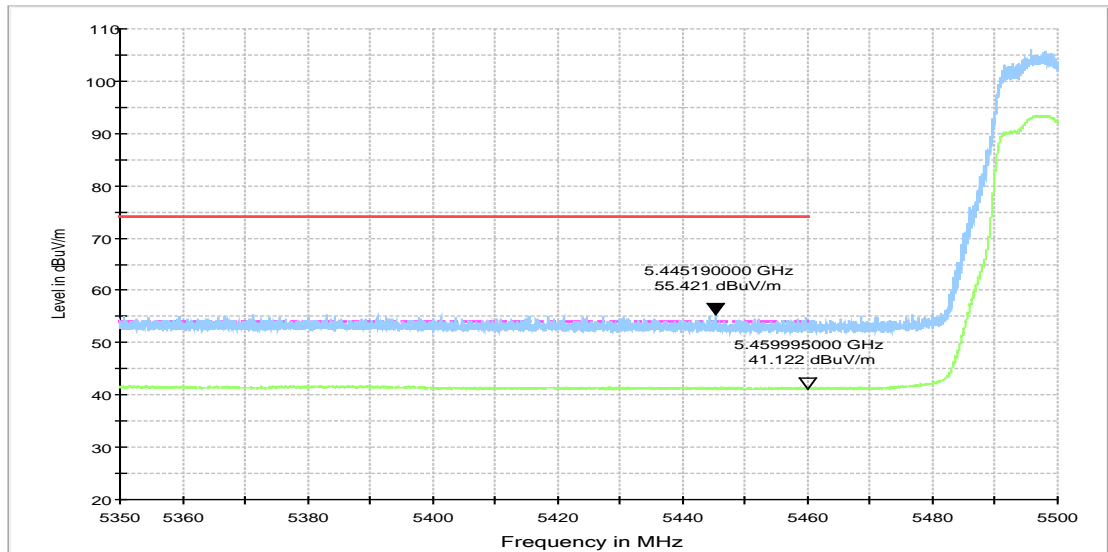
**Fig.44 Band Edges (802.11n-HT40, 5670MHz)**



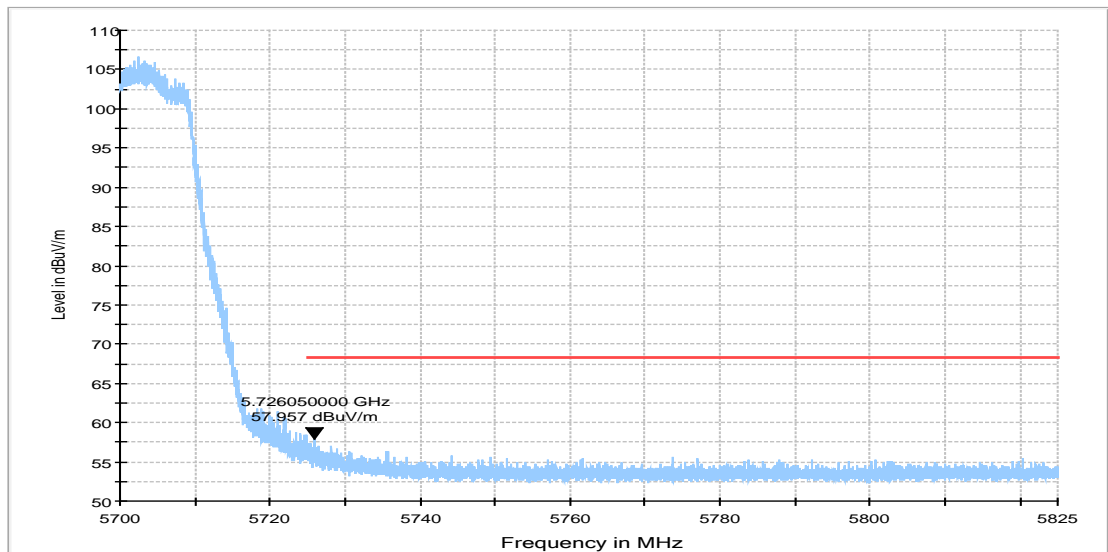
**Fig.45 Band Edges (802.11ax-HT20, 5180MHz)**



**Fig.46 Band Edges (802.11ax-HT20, 5320MHz)**

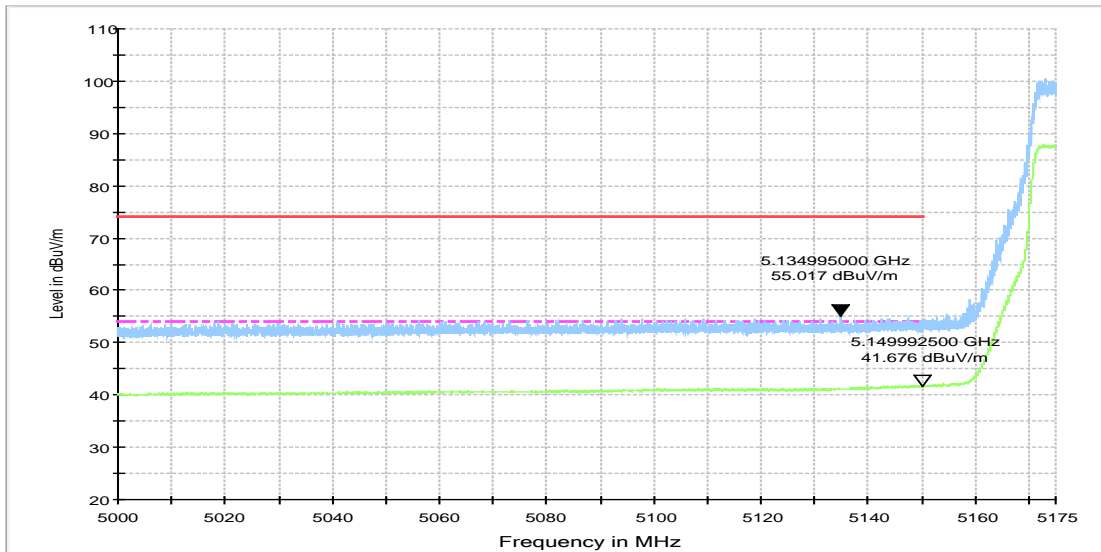


**Fig.47 Band Edges (802.11ax-HT20, 5500MHz)**

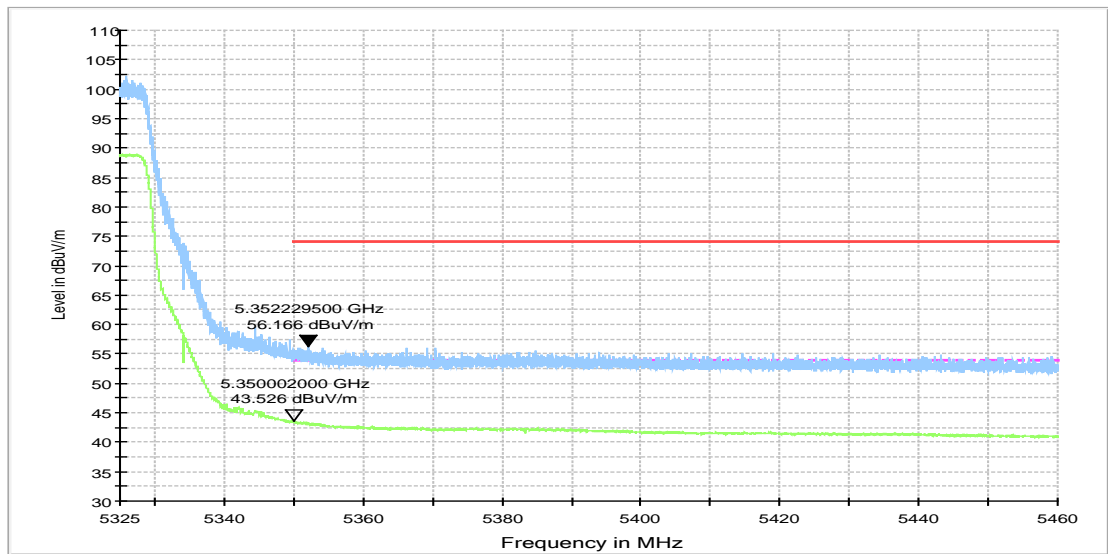


**Fig.48 Band Edges (802.11ax-HT20, 5700MHz)**

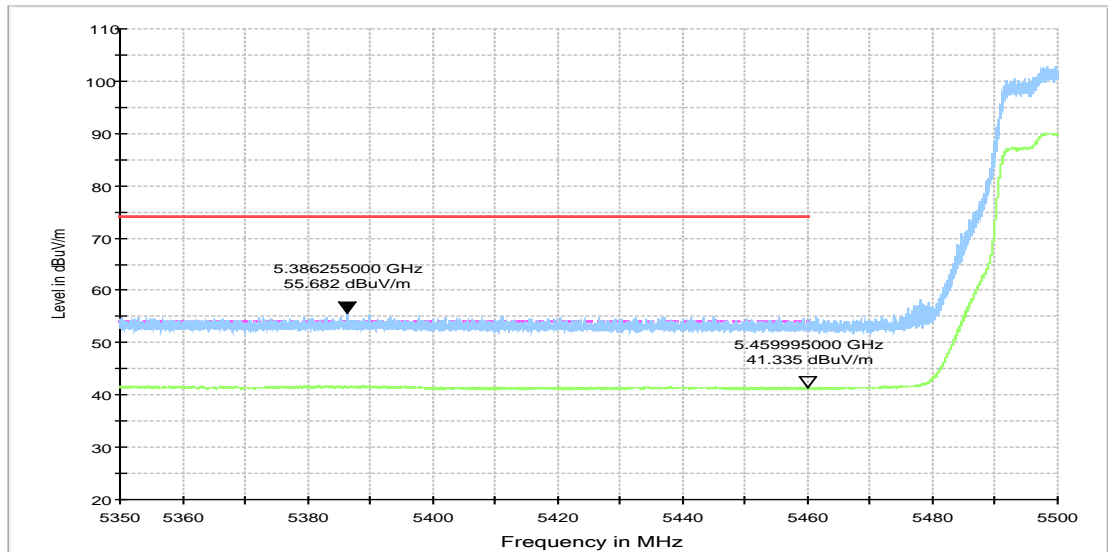




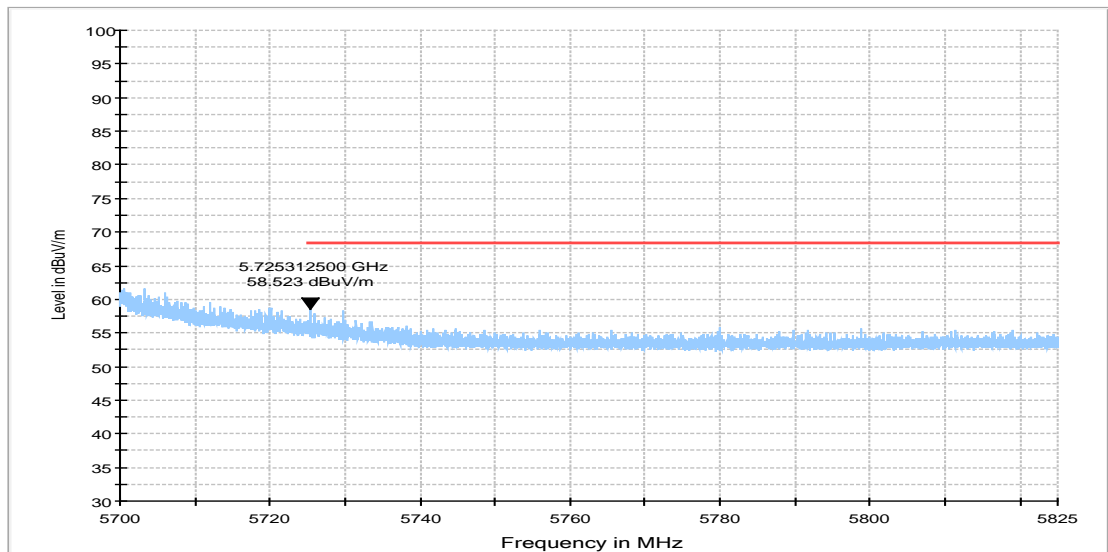
**Fig.49 Band Edges (802.11ax-HT40, 5190MHz)**



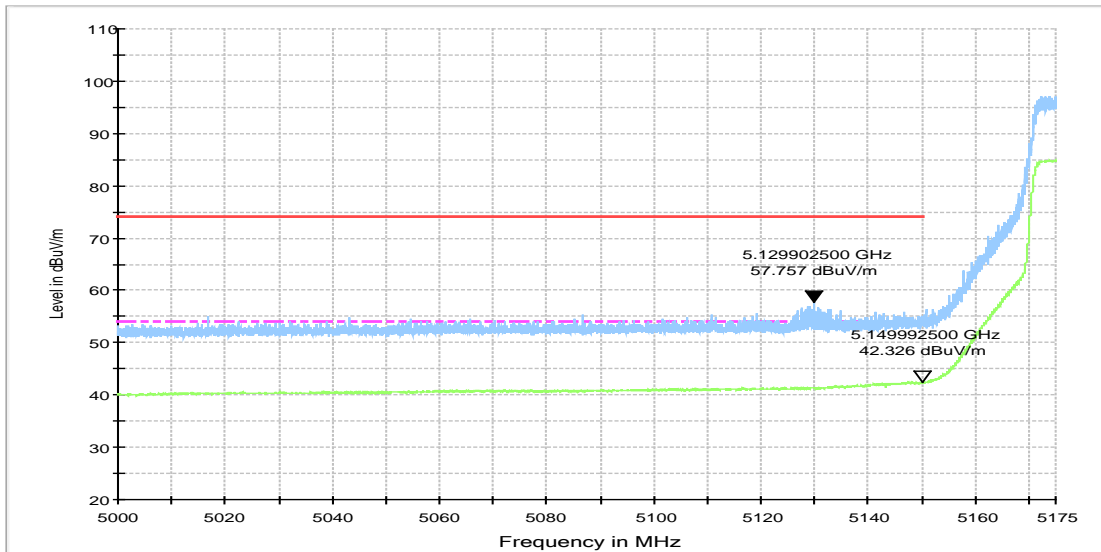
**Fig.50 Band Edges (802.11ax-HT40, 5310MHz)**



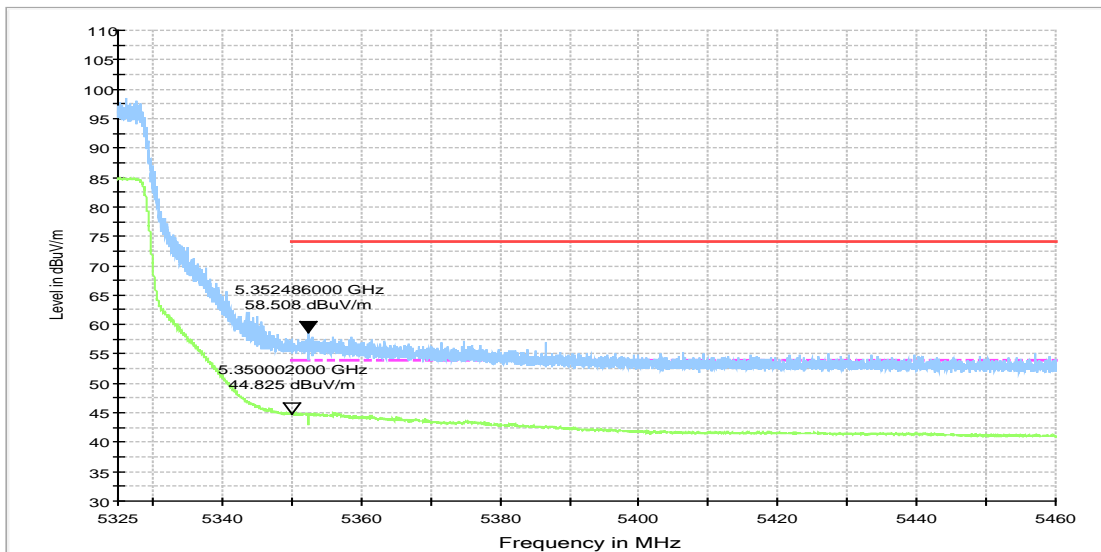
**Fig.51 Band Edges (802.11ax-HT40, 5510MHz)**



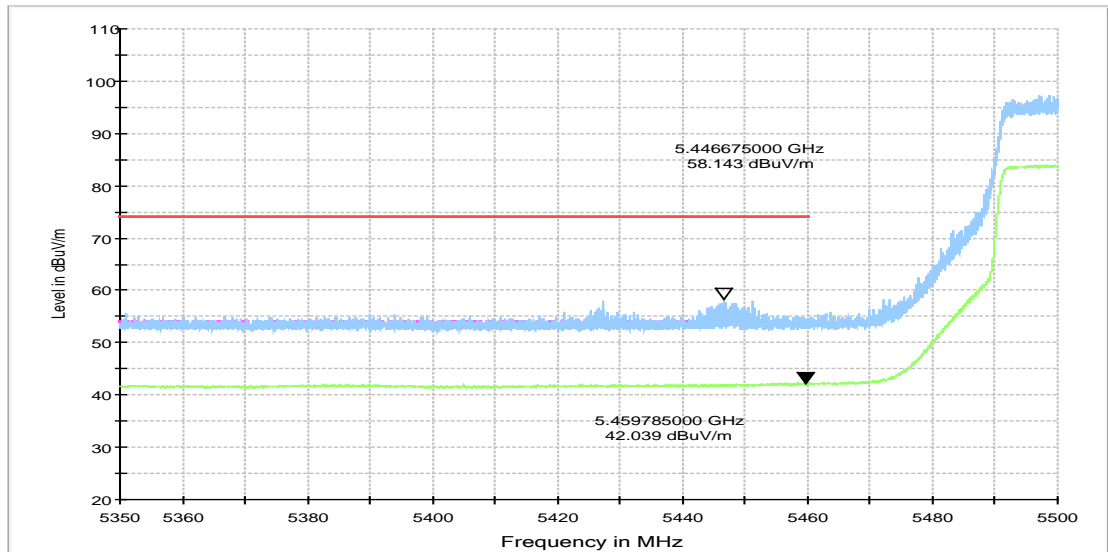
**Fig.52 Band Edges (802.11ax-HT40, 5670MHz)**



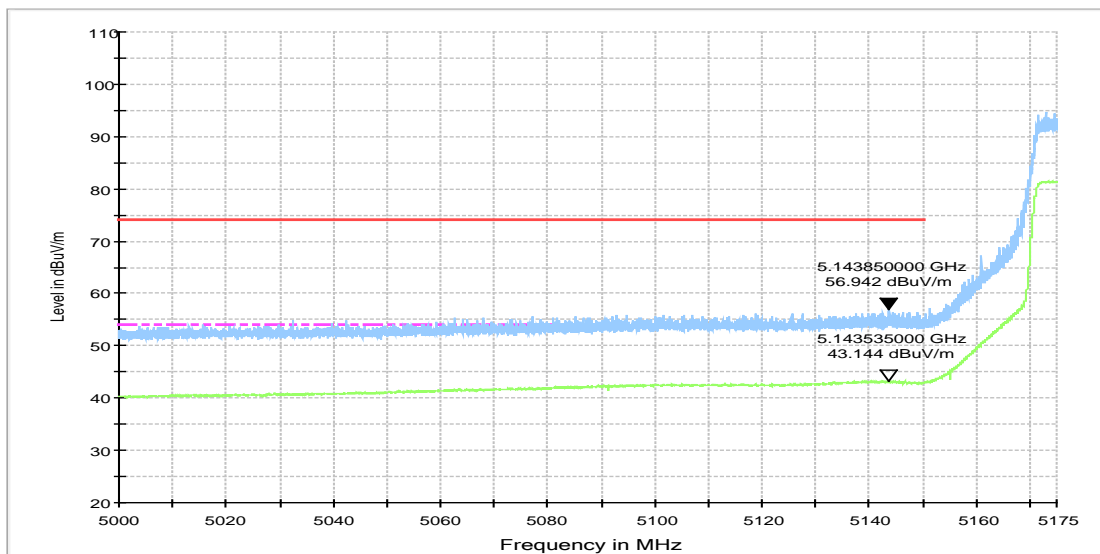
**Fig.53 Band Edges (802.11ax-HT80, 5210MHz)**



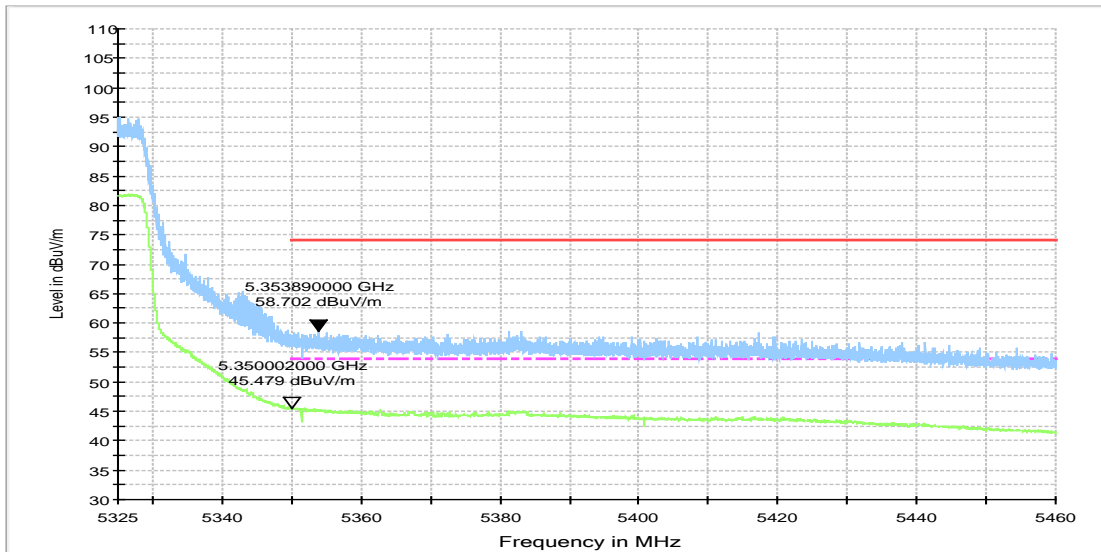
**Fig.54 Band Edges (802.11ax-HT80, 5290MHz)**



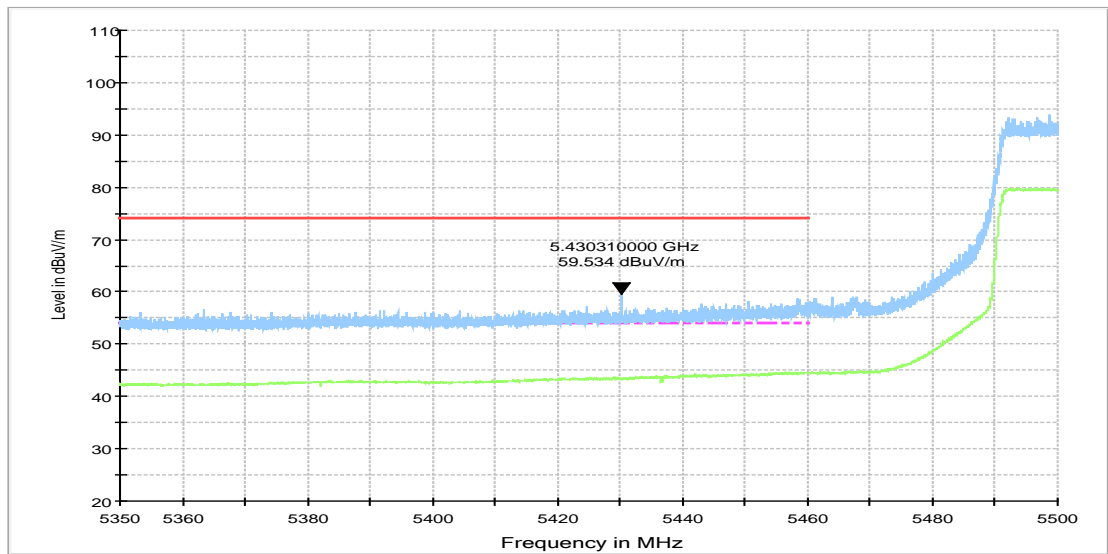
**Fig.55 Band Edges (802.11ax-HT80, 5530MHz)**



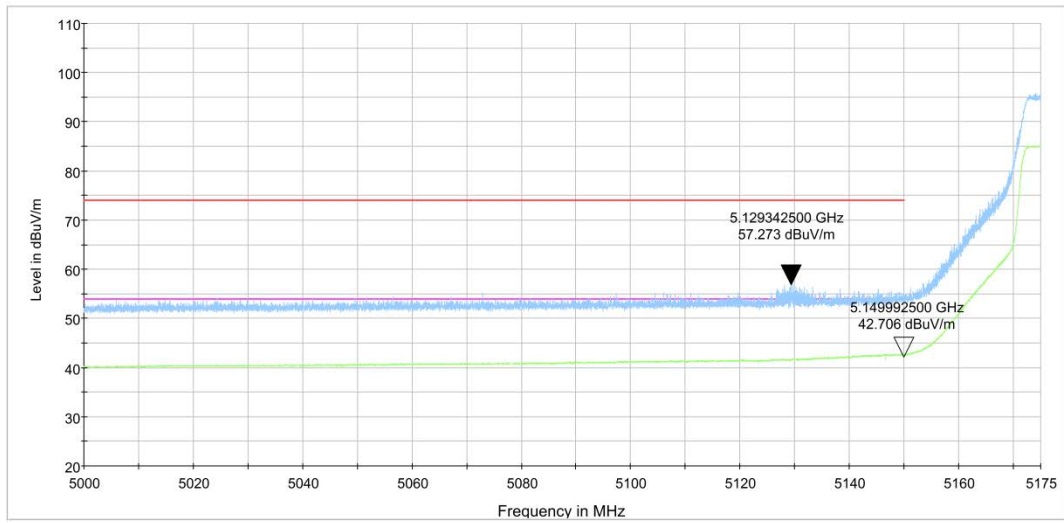
**Fig.56 Band Edges (802.11ax-HT160, 5250MHz)**



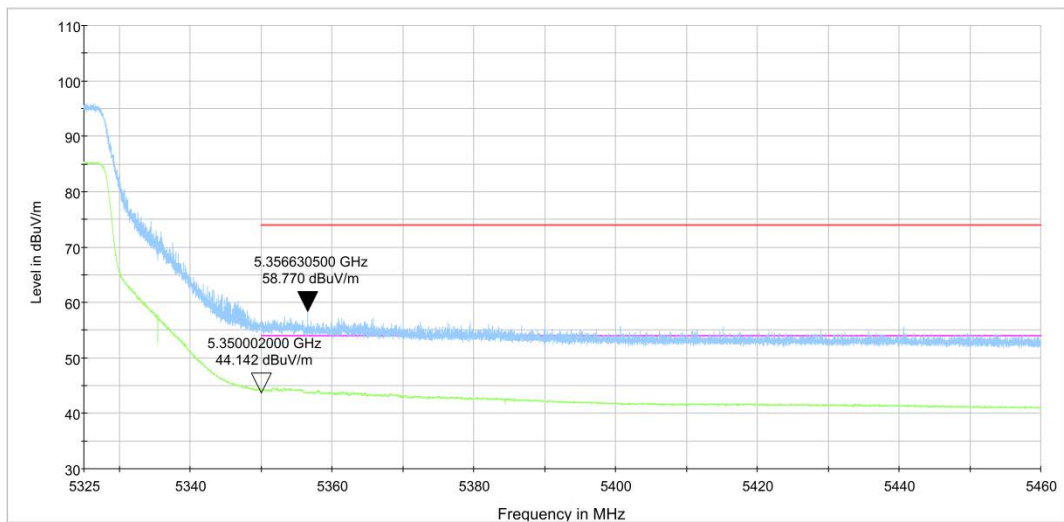
**Fig.57 Band Edges (802.11ax-HT160, 5250MHz)**



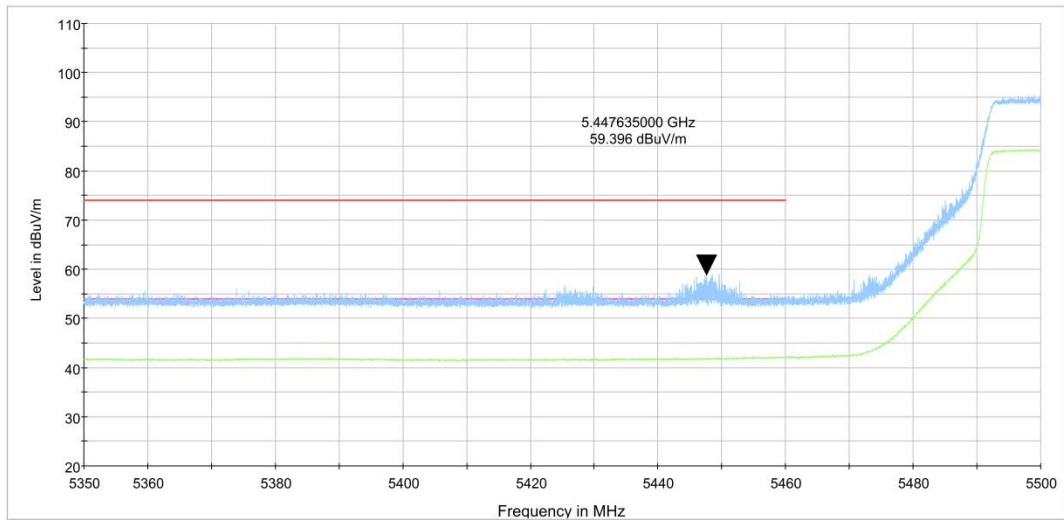
**Fig.58 Band Edges (802.11ax-HT160, 5570MHz)**



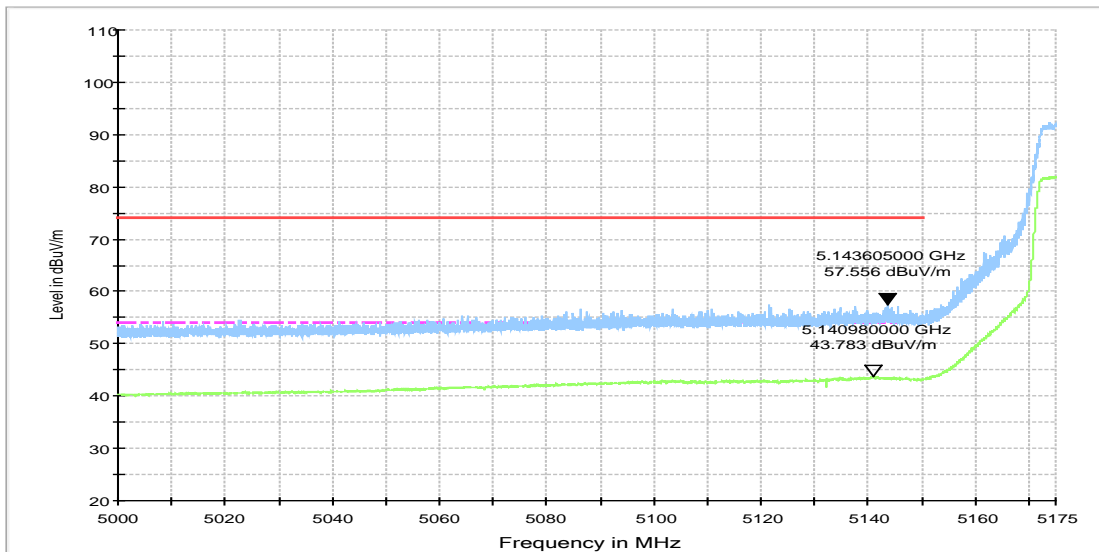
**Fig.59 Band Edges (802.11ac-HT80, 5210MHz)**



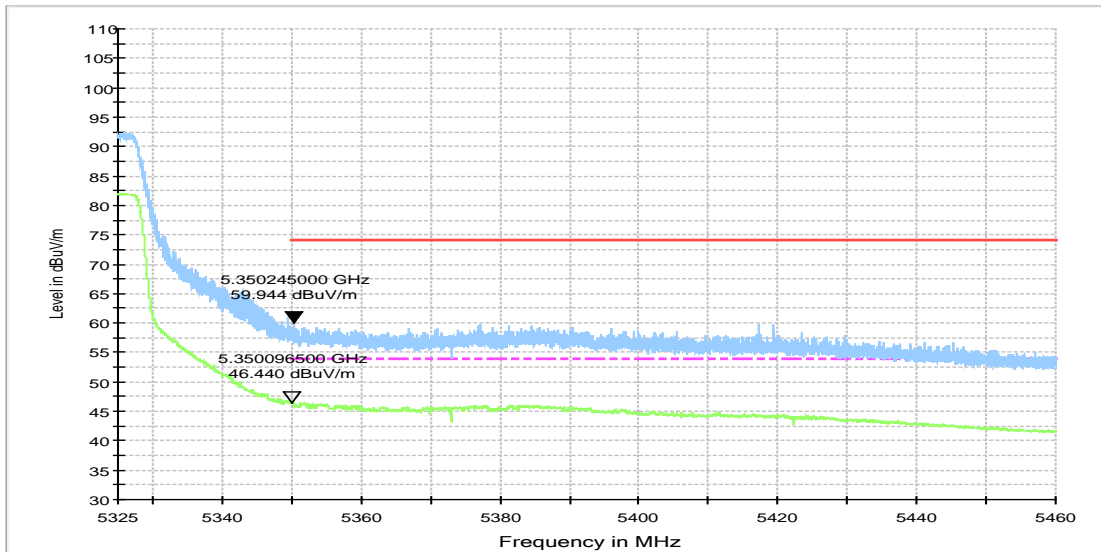
**Fig.60 Band Edges (802.11ac-HT80, 5290MHz)**



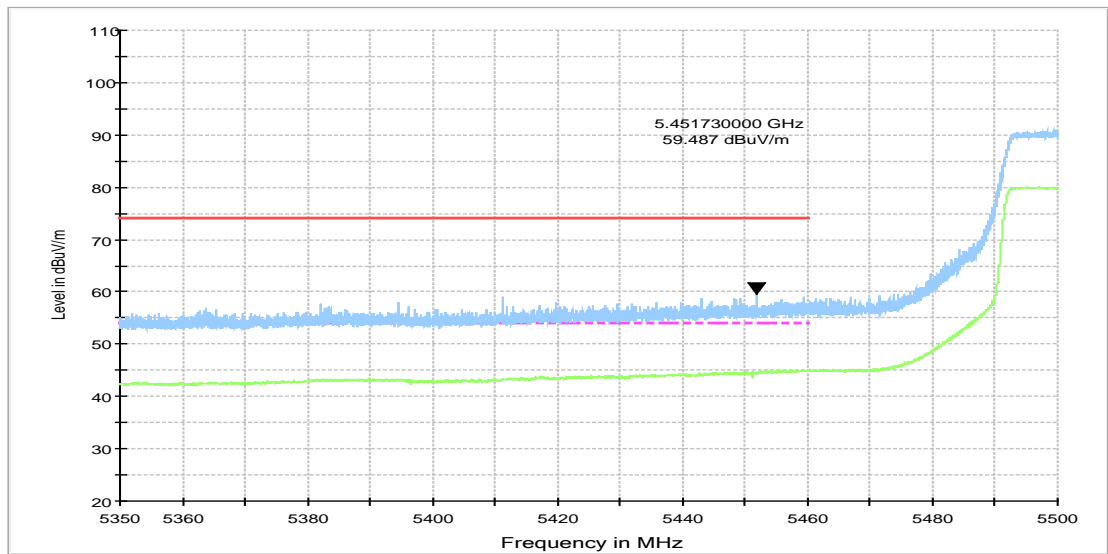
**Fig.61 Band Edges (802.11ac-HT80, 5530MHz)**



**Fig.62 Band Edges (802.11ac-HT160, 5250MHz)**



**Fig.63 Band Edges (802.11ac-HT160, 5250MHz)**



**Fig.64 Band Edges (802.11ac-HT160, 5570MHz)**



## **C.2. AC Power-line Conducted Emission**

### **Reference**

FCC 47 CFR Part 15, Clause 15.407 Clause 15.207

### **Method of Measurement:**

See ANSI C63.10-2013 specifically.

See ANSI C63.10-2013 generally.

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

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

The measurement bandwidth is:

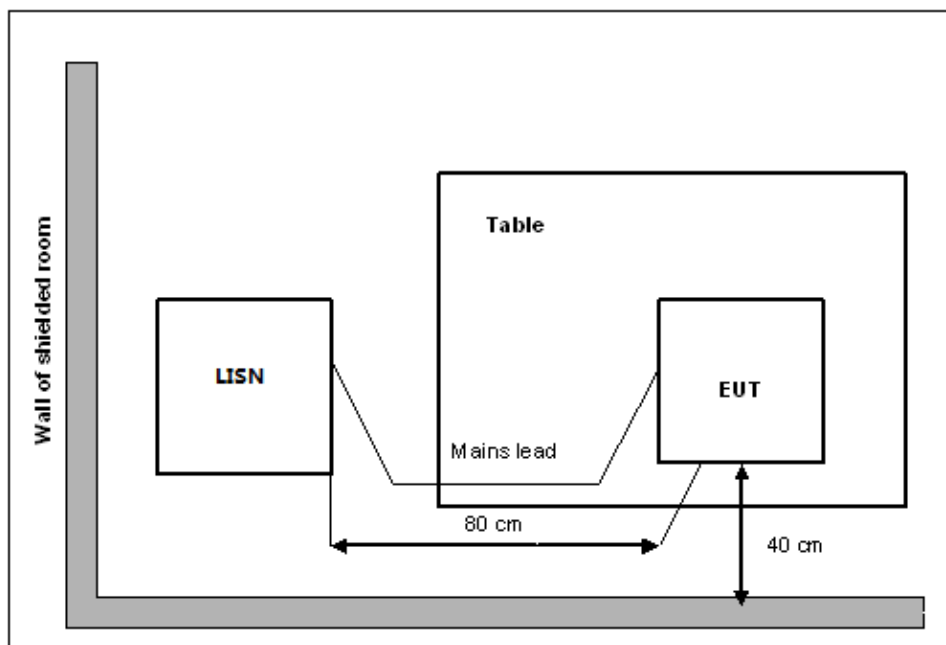
### **Measurement Bandwidth**

Frequency of Emission (MHz)	RBW/VBW
0.15-30	9kHz

### **Test Condition:**

Voltage (V)	Frequency (Hz)
120	60

### **Measurement Setup**



### **EUT Operating Mode and Test Conditions**

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

The EUT is powered by an AC/travel adapter.

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

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

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

WLAN (Average Limit)

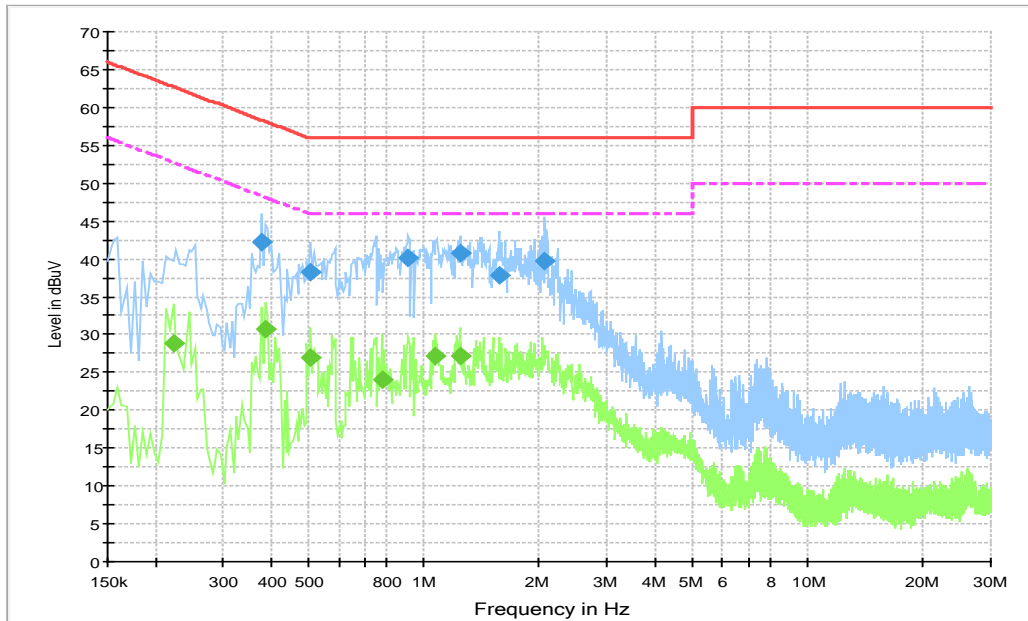
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.C.2.1	Fig.C.2.2	<b>P</b>
0.5 to 5	46			
5 to 30	50			

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

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

**Conclusion: Pass**
**Test graphs as below:**

Traffic:



**Fig.C.2.1 AC Powerline Conducted Emission-802.11b**

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

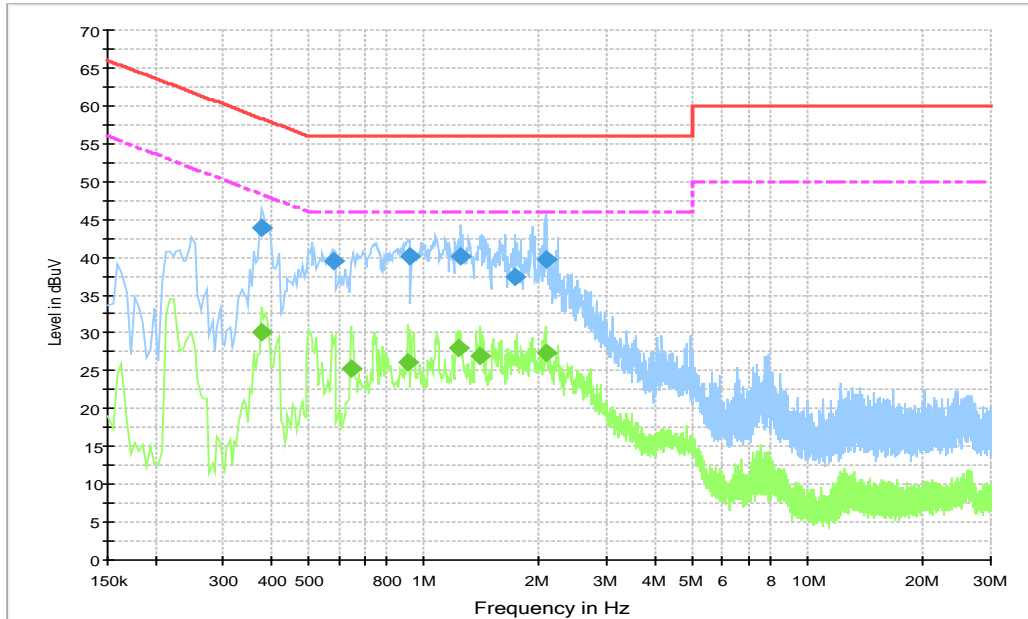
**Final Result 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.379500	42.3	1000.	9.000	L1	19.8	16.0	58.3
0.505500	38.2	1000.	9.000	N	19.8	17.8	56.0
0.910500	40.2	1000.	9.000	N	19.7	15.8	56.0
1.248000	40.7	1000.	9.000	N	19.6	15.3	56.0
1.567500	37.9	1000.	9.000	N	19.6	18.1	56.0
2.071500	39.6	1000.	9.000	N	19.6	16.4	56.0

**Final Result 2**

Frequency (MHz)	Average (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.222000	28.9	1000.0	9.000	L1	19.7	23.8	52.7
0.388500	30.8	1000.0	9.000	N	19.7	17.3	48.1
0.505500	26.9	1000.0	9.000	N	19.8	19.1	46.0
0.780000	24.0	1000.0	9.000	N	19.7	22.0	46.0
1.072500	27.1	1000.0	9.000	L1	19.7	18.9	46.0
1.239000	27.2	1000.0	9.000	N	19.6	18.8	46.0

Idle:



**Fig.C.2.2 AC Powerline Conducted Emission-Idle**

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

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	43.8	1000.	9.000	L1	19.8	14.4	58.3
0.582000	39.5	1000.	9.000	N	19.7	16.5	56.0
0.919500	40.1	1000.	9.000	N	19.7	15.9	56.0
1.252500	40.2	1000.	9.000	N	19.6	15.8	56.0
1.734000	37.3	1000.	9.000	L1	19.7	18.7	56.0
2.076000	39.7	1000.	9.000	L1	19.6	16.3	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	30.2	1000.0	9.000	L1	19.8	18.1	48.3
0.645000	25.3	1000.0	9.000	N	19.7	20.7	46.0
0.910500	26.1	1000.0	9.000	N	19.7	19.9	46.0
1.225500	28.0	1000.0	9.000	N	19.6	18.0	46.0
1.405500	27.0	1000.0	9.000	L1	19.6	19.0	46.0
2.076000	27.3	1000.0	9.000	L1	19.6	18.7	46.0

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