FCC PART 15.407

TEST REPORT

For

Beijing InHand Networks Technology Co., Ltd

Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing

FCC ID: 2AANYER805

Report Type:	**Equipment Name:**
Original Report	Edge Router

Report Number:	RSC210423001-0C
Date of Report Issue:	2020-05-11
Reviewed By:	Sula Huang
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant	Beijing InHand Networks Technology Co., Ltd
Product	Edge Router
Tested Model	ER805
Multiple Model(s)	ER806, ER808, ER809, ER815, ER816, ER818, ER810 , ER825, ER826, ER828, ER820, ER855, ER856, ER858, ER865, ER866, ER868, ER895, ER896, ER898
FCC ID	2AANYER805
Frequency Range*	U-NII-1:5150~5250 MHz U-NII-3:5725~5850 MHz
Modulation Type*	OFDM
Voltage Range	DC 9-48V (Typical:12V) from adapter
Measure approximately	210 mm (L) x 140 mm (W) x 35 mm (H)
Sample serial number	210423001/01 (assigned by the BACL, Chengdu)
Sample/EUT Status	The test sample was in good condition and received: 2021-04-23

Note: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Objective

This type approval report is prepared on behalf of **Beijing InHand Networks Technology Co., Ltd** in accordance with Part 2-Subpart J, Part 15-Subparts A, C and E of the Federal Communications Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, section subpart C, 15.203, 15.205, 15.207, 15.209 and Subpart E, 15.407 rules.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS submissions with FCC ID: 2AANYER805

Measurement Uncertainty

Item			Uncertainty
AC power line conducted emission			2.48 dB
Radiated Emission(Field Strength)	30MHz-200MHz	H	4.31 dB
		V	4.57 dB
	200MHz-1GHz	H	4.68 dB
		V	5.78 dB
	1GHz-6GHz		4.56 dB
	6GHz-18GHz		4.57 dB
	18GHz-40GHz		5.44 dB
RF Frequency			$\pm 0.86\times10^{-7}$
RF output power, conducted			±0.61dB
Occupied Bandwidth			±5%
Power Spectrum Density, conducted			±2.5dB
Spurious emissions, conducted			±2.5dB
Humidity			±5%
Temperature			±1℃
Voltage(AC,<10kHz)			±1%
Time			±1%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the corresponding inclusion factor K when the inclusion probability is about 95%.

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

3. KDB 662911 D01 Multiple Transmitter Output v02r01.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Bay Area Compliance Laboratories Corp. (Chengdu) lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4324.01) and the FCC designation No. CN1186 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system supports 802.11a/n-ht20/n-ht40/ac20/ac40/ac80, the 802.11ac20/ac40 were reduced since the identical RF parameters with 802.11n-ht20/n-ht40.

For 5150~5250 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a, 802.11n-HT20: Channel 36, 40 and 48 were tested
For 802.11n-HT40: Channel 38, 46 were tested
For ac80: Channel 42 was tested

For 5725~5850 MHz band, channels are provided to test as follows:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a, 802.11n-HT20: Channel 149, 157 and 165 were tested.
For 802.11n-HT40: Channel 151, 159 were tested.
For ac80: Channel 155 was tested.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

For radiated emission data recorded report:

The device supports SISO and MIMO at 802.11n-ht20/n-ht40/ac80 mode, per pre-test, the MIMO mode was the worst and reported.

EUT Exercise Software

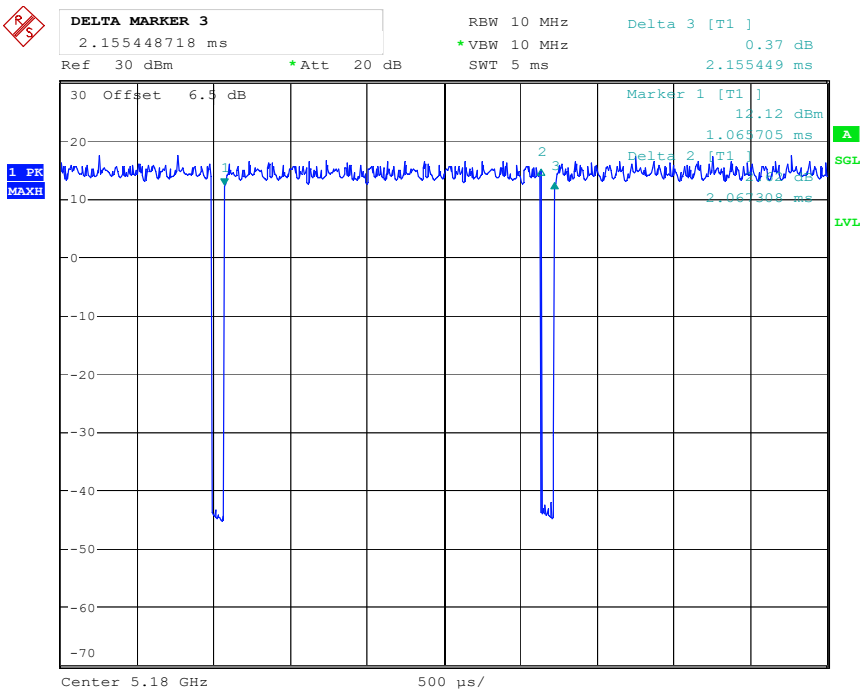
The software “Run CMD.exe and input related command” was used for testing, which was provided by applicant.
The maximum power with maximum duty cycle was set as below:

Software				Run CMD.exe and input related command		
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level	
					Chain 0	Chain 1
5150-5250MHz	802.11a	Low	5180	6.00	32	32
		Middle	5200	6.00	32	32
		High	5240	6.00	32	32
	802.11n-HT20	Low	5180	MCS0	32	32
		Middle	5200	MCS0	32	32
		High	5240	MCS0	32	32
	802.11n-HT40	Low	5190	MCS0	32	32
		High	5230	MCS0	32	32
	802.11ac80	Middle	5210	MCS0	32	32
5725-5850MHz	802.11a	Low	5745	6.00	32	32
		Middle	5785	6.00	32	32
		High	5825	6.00	32	32
	802.11n-HT20	Low	5745	MCS0	32	32
		Middle	5785	MCS0	32	32
		High	5825	MCS0	32	32
	802.11n-HT40	Low	5755	MCS0	32	32
		High	5795	MCS0	32	32
	802.11ac80	Middle	5775	MCS0	32	32

Duty Cycle information is below:

Mode	T_{on} (ms)	$T_{on}+T_{off}$ (ms)	Duty Cycle (%)	Duty Cycle Factor （dB)
802.11a	2.07	2.16	95.83	0.18
802.11n-HT20	4.47	4.58	97.60	0.11
802.11n-HT40	3.26	3.36	97.02	0.13
802.11ac80	3.53	4.18	84.45	0.73

802.11a



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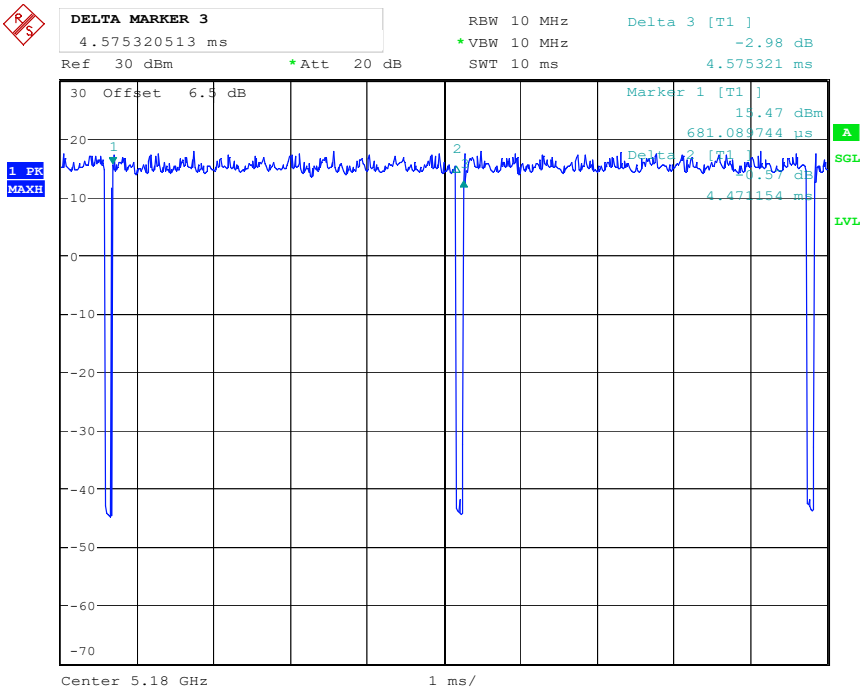
802.11n- HT20



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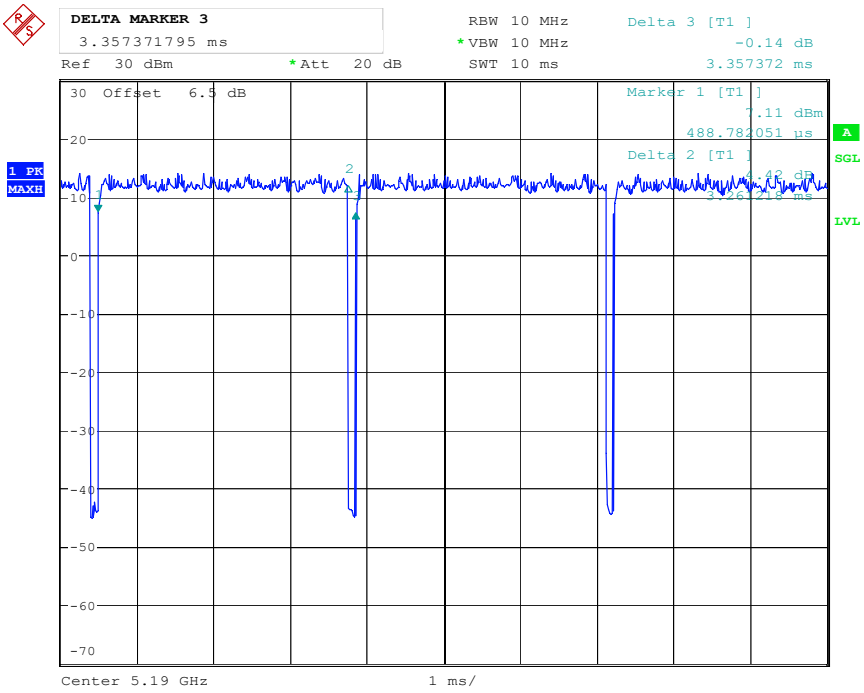
802.11n- HT40



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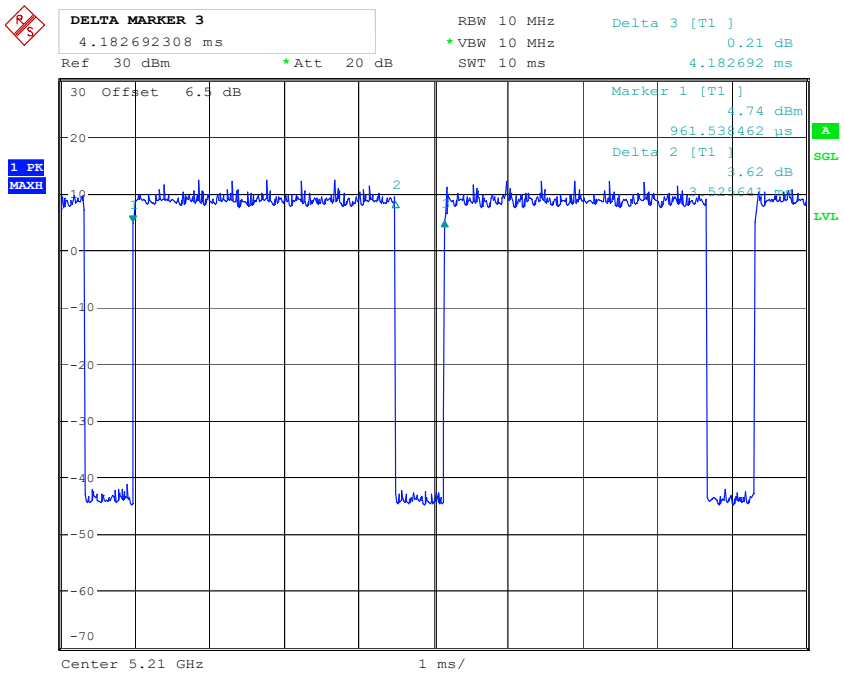
802.11ac80



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Support Test Devices Description

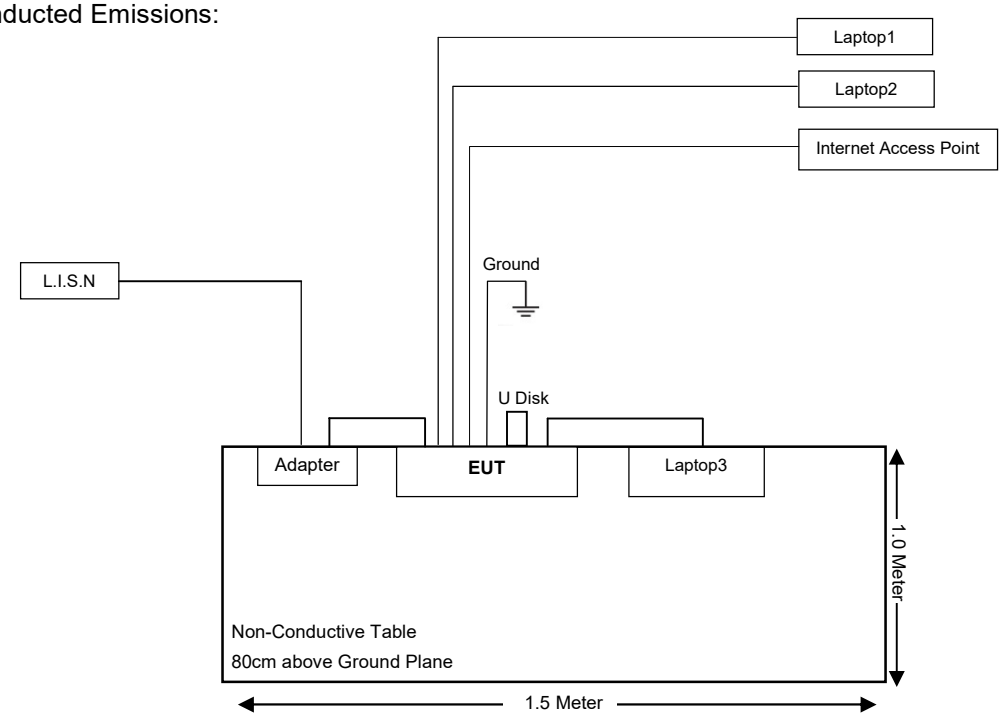
Manufacturer	Device Name	Model	Serial Number
DELL	Laptop1	Latitude E5430	BTXWLX1
DELL	Laptop2	E6410	353854366585
DELL	Laptop3	E6410	37417629385
SHENZHEN KUANTEN LIMITED	Adapter	KT241120150M2	2038
Kingston	U Disk	16G	Unknown
Unknown	Internet Access Point	Unknown	Unknown

Support Test Cable Description

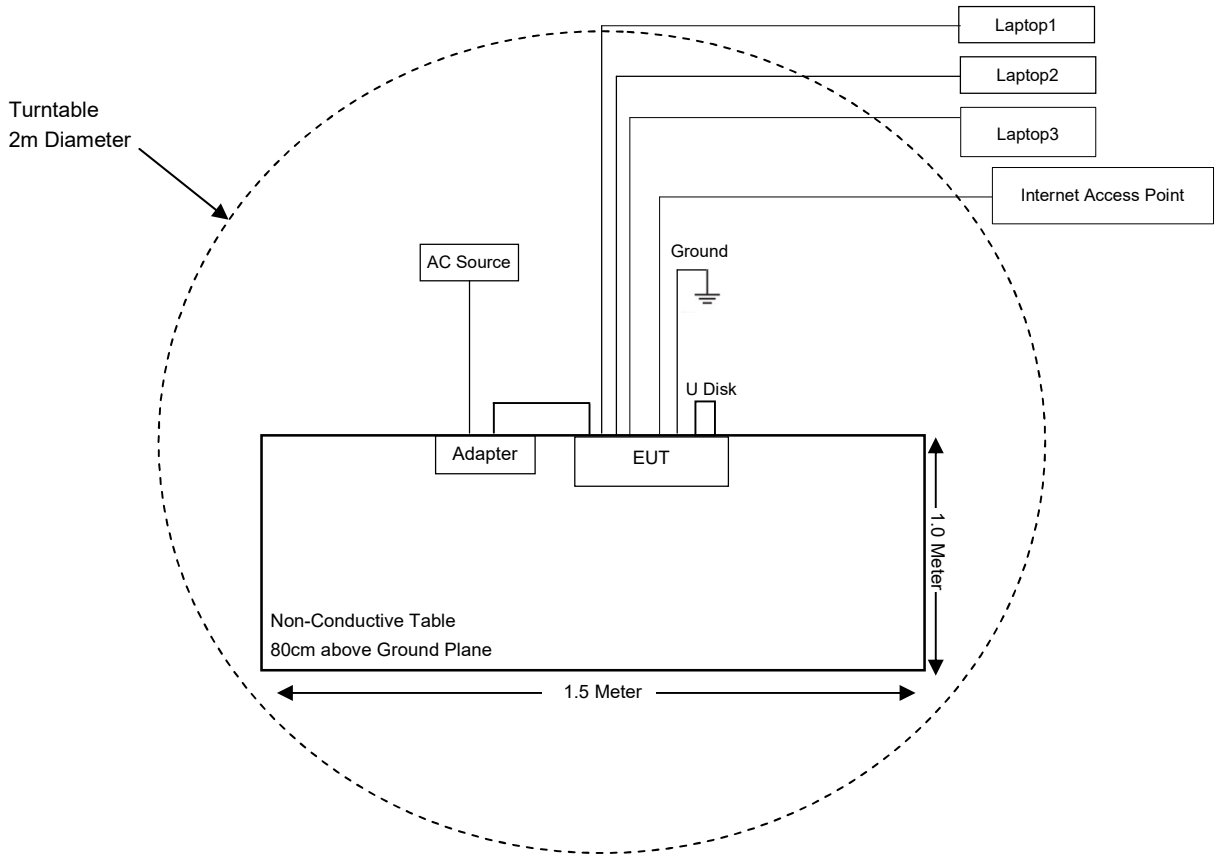
Cable Description	Length (m)	From / Port	To
Unshielded DC Power Cable	1.20	Adapter	EUT
Unshielded Ethernet Cable x3	10.0(RE)	EUT	Laptop1,2,3
Unshielded Ethernet Cable x2	10.0(CE)	EUT	Laptop1,2
Unshielded Ethernet Cable	1.20(CE)	EUT	Laptop3
Unshielded Ethernet Cable	10.0	EUT	Internet Access Point

Block Diagram of Test Setup

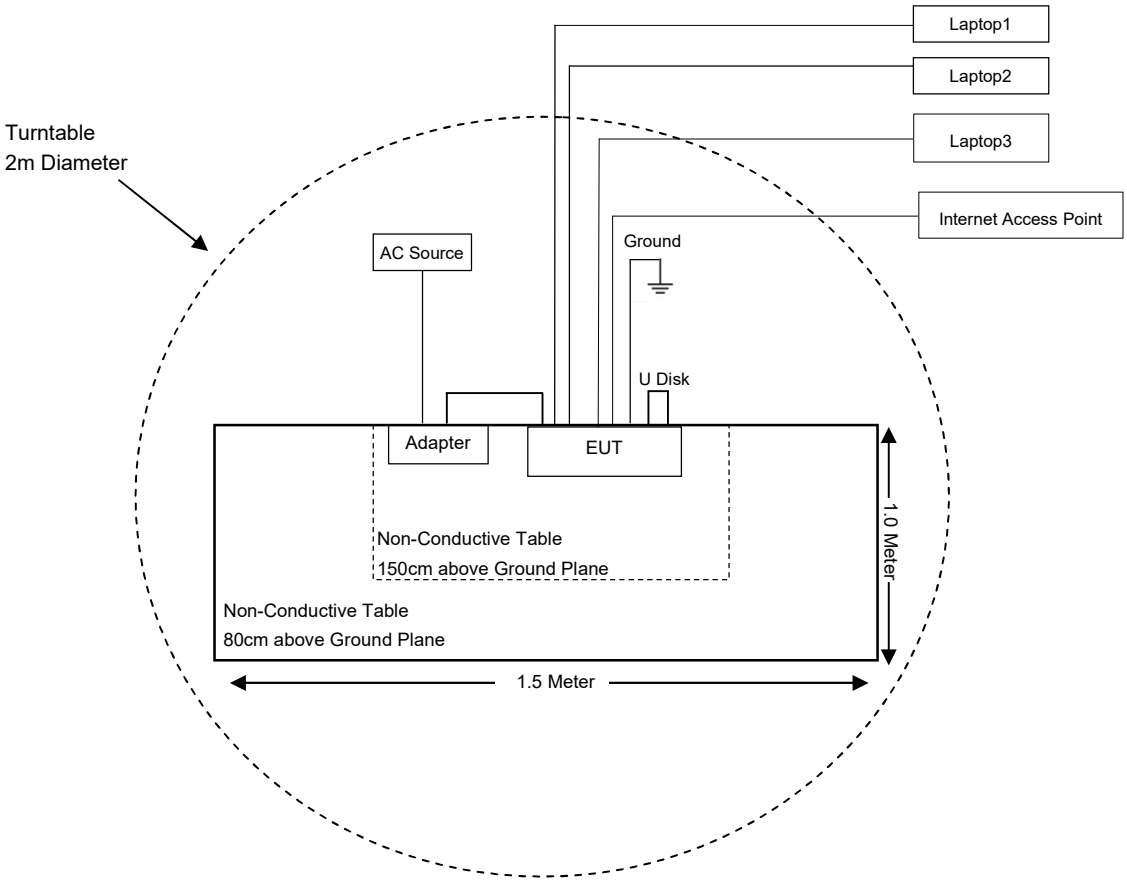
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.407(f) & §1.1310 & §2.1091	Maximum Permissible exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(6)& §15.207(a)	Conducted Emissions	Compliance
§15.205& §15.209 §15.407(b) (1), (4)(i), (6), (7)	Undesirable Emission & Restricted Bands	Compliance
§15.407(a) (1),(3) & (e)	26dB & 6dB Bandwidth	Compliance
§15.407(a)(1),(3)	Conducted Transmitter Output Power	Compliance
§15.407 (a)(1),(3),(5)	Power Spectral Density	Compliance

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

TEST EQUIPMENTS LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission					
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2021-04-12	2022-04-11
ROHDE&SCHWARZ	L.I.S.N.	ENV216	3560.6550.16	2021-01-13	2022-01-12
HP	RF Limiter	11947A	3107A01270	2020-08-13	2021-08-12
Unknown	Conducted Cable	L-E-003	000003	2020-08-04	2021-08-03
Rohde & Schwarz	EMC32	EMC32	V 8.52.0	NCR	NCR
Radiated Emission					
EMCT	Semi-Anechoic Chamber	966	001	2020-07-24	2025-07-23
SONOMA INSTRUMENT	Amplifier	310 N	186684	2020-08-10	2021-08-09
SUNOL SCIENCES	Broadband Antenna	JB3	A121808	2019-12-10	2022-12-09
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2021-04-12	2022-04-11
INMET	Attenuator	18N-6dB	NA	2019-12-10	2022-12-09
Unknown	RF Cable (Below 1GHz)	L-E-005	000005	2020-09-04	2021-09-03
Unknown	RF Cable (Below 1GHz)	T-E128	000128	2020-10-16	2021-10-15
MICRO-COAX	RF Cable (Below 1GHz)	T-E237	233522-001	2020-07-17	2021-07-16
Rohde & Schwarz	Spectrum Analyzer	FSU26	200835	2021-04-12	2022-04-11
EMCO	Horn Antenna	3115	2192	2019-09-25	2021-09-24
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2020-09-20	2021-09-19
MICRO-TRONICS	5 GHz Notch Filter	BRM50716	G284	2021-02-21	2022-02-20
SUHNER+HUBER	RF Cable (Above 1GHz)	SUCOFLEX 104PE	93533/4PE	2020-05-18	2021-05-17
IW-MICROWAVE	RF Cable (Above 1GHz)	SPS-2301	NA	2020-08-31	2021-08-30
Rohde & Schwarz	EMI Test Receiver	ESIB 40	100215	2021-04-12	2022-04-11
EM Electronics	Pre-Amplifier	EM18G40	060725	2020-07-23	2021-07-22
A.H. Systems, Inc	Horn Antenna	SAS-574	510	2019-09-02	2021-09-01
HUBER+SUHNER	RF Cable (Above 1GHz)	T-E222	2551/2	2020-07-18	2021-07-17
ORIDA RF Labs	RF Cable (Above 1GHz)	T-E210	1042	2020-07-18	2021-07-17
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	100113	2021-04-12	2022-04-11
Agilent	USB power sensor	U2021XA	MY53320008	2021-01-13	2022-01-12
Mini-circuits	6dB Attenuator	BW-S6W5+	00433	2020-09-10	2021-09-09
Unknown	RF Coaxial Cable	SMA-SMA	Unknown	Each Time	

FCC §15.407 (f) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE

Applicable Standard

According to §15.407(f) and §1.1310 & §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**Averaging Time (minutes)**
0.3–1.34	614	1.63	※(100)	30
1.34–30	824/f	2.19/f	※($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; ※= Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Per 447498 D01 General RF Exposure Guidance v06, simultaneous transmission MPE test exclusion applies when the sum of the MPE for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0.

Predication of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where:
S = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \le 1$$

Calculated Data:

WiFi +LTE module (FCC ID: 2AANYER805 contains FCC ID: XMR201807EP06A)

MPE evaluation for single transmission:

Radio Mode	Frequency Range (MHz)	Antenna Gain*		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)	Ratio
		(dBi)	(numeric)	(dBm)	(mW)				
WLAN	2412-2462	2.72	1.87	23.5	223.87	20	0.083	1.0	0.083
	5150-5250	0.21	1.05	16.0	39.81	20	0.008	1.0	0.008
	5725-5850	0.02	1.00	11.0	12.59	20	0.003	1.0	0.003
WCDMA BAND 5*	824-849	0.00	1.00	24.0	251.19	20	0.050	0.55	0.091
WCDMA BAND 2*	1850-1910	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
WCDMA BAND 4*	1710-1755	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 2*	1850-1910	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 4*	1710-1755	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 5*	824-849	0.00	1.00	24.0	251.19	20	0.050	0.55	0.091
LTE Band 7*	2500-2570	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 12*	699-716	0.00	1.00	24.0	251.19	20	0.050	0.47	0.106
LTE Band 13*	777-787	0.00	1.00	24.0	251.19	20	0.050	0.52	0.096
LTE Band 25*	1850-1915	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 26*	814-849	0.00	1.00	24.0	251.19	20	0.050	0.54	0.093
LTE Band 30*	2305-2315	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050
LTE Band 66*	1710-1780	0.00	1.00	24.0	251.19	20	0.050	1.0	0.050

MPE evaluation for simultaneous transmission:

Note: WLAN, WWAN can transmit simultaneously, MPE evaluation is as below formula:

PD1/Limit1+PD2/Limit2+……＜1, PD (Power Density)

The worst case is as below:

MPE of WLAN + MPE of WWAN = 0.083/1.0+0.050/0.47=0.189＜1.0

Result: The device meets FCC MPE at ≥20 cm distance.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.
Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Information*

The EUT has two external Wi-Fi antennas and two LTE antennas, which fulfill the requirement of this section. Please refer to the table below and EUT photos.

Antenna	Manufacturer	Model Number	Antenna Gain (Max)	Impedance (ohm)	Antenna Connector	Antenna Type
Wi-Fi Ant. 0 Wi-Fi Ant. 1	SHENZHEN GUYOU TECHNOLOGY CO.LTD	GY-XPF-BCL2.5-GJG22	2.72 dBi 2412-2462MHz	50	RP-SMA(male)	Monopole
			0.21 dBi 5150-5250MHz			
			0.02 dBi 5725-5850MHz			
LTE Main Ant LTE Diversity Ant.	SHENZHEN GUYOU TECHNOLOGY CO.LTD	GY-XPL-BDL2-AJG30	0 dBi	50	SMA-J(male)	Monopole

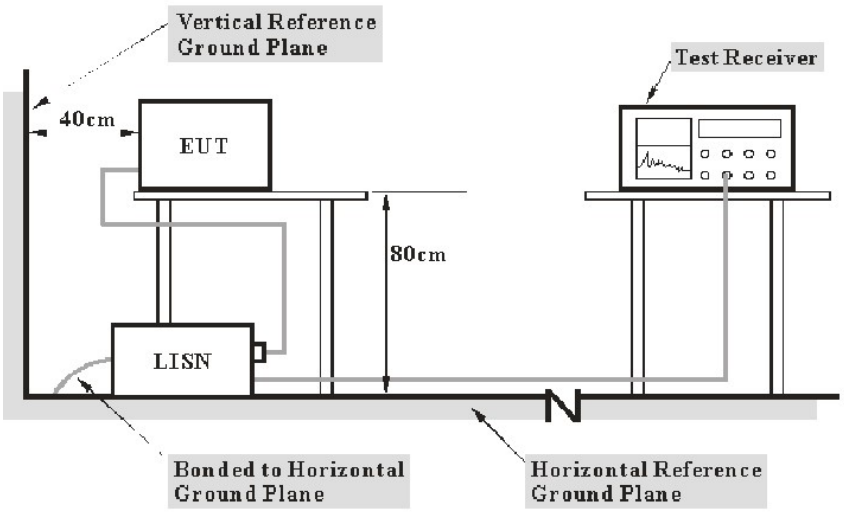
Result: Compliance

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data

Environmental Conditions

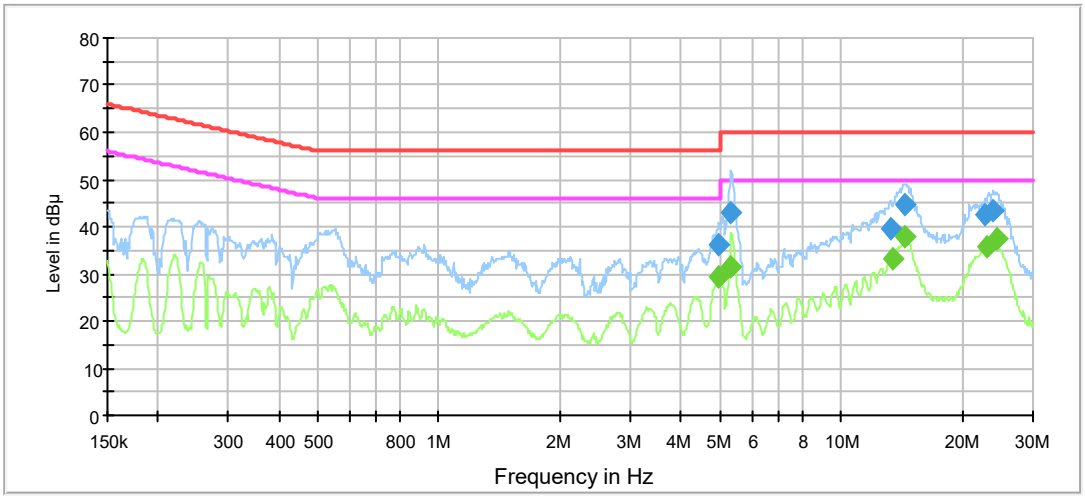
Temperature:	21 °C
Relative Humidity:	51 %
ATM Pressure:	95.6 kPa

The testing was performed by Winfred Wang on 2021-04-25.

Test Mode: Transmitting

5150-5250MHz band: 802.11n20-High channel - worst case

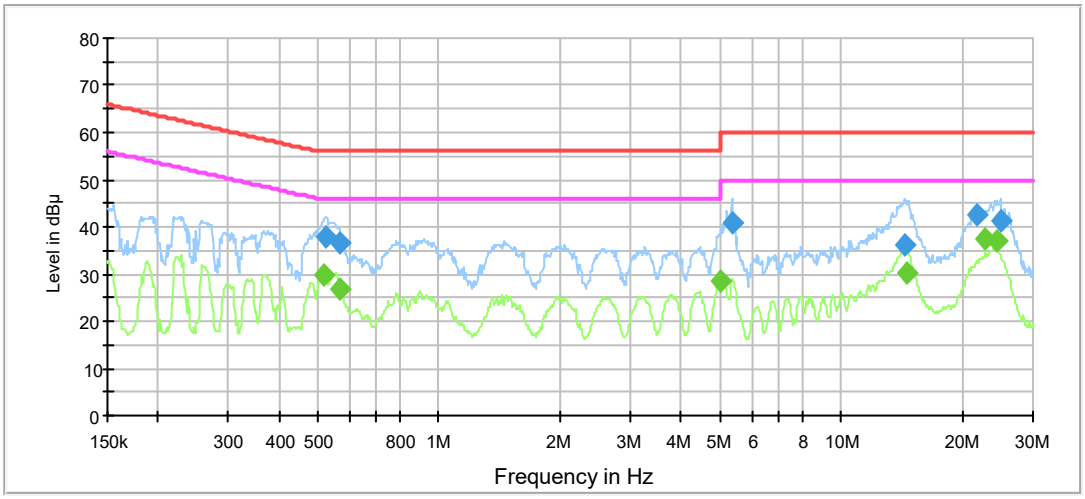
AC120V/60Hz, Line



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
4.973555	36.0	9.000	L1	19.6	20.0	56.0
5.333248	42.9	9.000	L1	19.6	17.1	60.0
13.219499	39.4	9.000	L1	19.6	20.6	60.0
14.389247	44.6	9.000	L1	19.6	15.4	60.0
22.881358	42.4	9.000	L1	19.7	17.6	60.0
23.931855	43.3	9.000	L1	19.7	16.7	60.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
4.973555	29.2	9.000	L1	19.6	16.8	46.0
5.333248	31.5	9.000	L1	19.6	18.5	50.0
13.485879	33.4	9.000	L1	19.6	16.6	50.0
14.461193	37.7	9.000	L1	19.6	12.3	50.0
22.995765	35.6	9.000	L1	19.7	14.4	50.0
24.536164	37.4	9.000	L1	19.7	12.6	50.0

AC120V/60Hz, Neutral



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.521924	38.1	9.000	N	19.6	17.9	56.0
0.565280	36.6	9.000	N	19.6	19.4	56.0
5.359914	40.7	9.000	N	19.5	19.3	60.0
14.389247	36.0	9.000	N	19.6	24.0	60.0
21.768133	42.7	9.000	N	19.6	17.3	60.0
24.906050	41.3	9.000	N	19.7	18.7	60.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.519327	29.6	9.000	N	19.6	16.4	46.0
0.565280	26.9	9.000	N	19.6	19.1	46.0
4.998423	28.3	9.000	N	19.5	17.7	46.0
14.533499	30.4	9.000	N	19.6	19.6	50.0
22.881358	37.5	9.000	N	19.6	12.5	50.0
24.536164	36.9	9.000	N	19.7	13.1	50.0

Note:
1) Corrected Amplitude = Reading + Correction Factor
2) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter
3) Margin = Limit – Corrected Amplitude

FCC §15.209, §15.205 & §15.407(b) (1) (4)(i) (6) (7) – UNDESIRABLE EMISSION, RESTRICTED BANDS

Applicable Standard

FCC §15.407 (b) (1) (4)(i), (6), (7); §15.209; §15.205

FCC 15.407 (b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

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

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

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

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as:

E[dBuV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

1) For 75 MHz above or below the band edge, a level of -27 dBm/MHz (68.2dBμV/m) was applied.

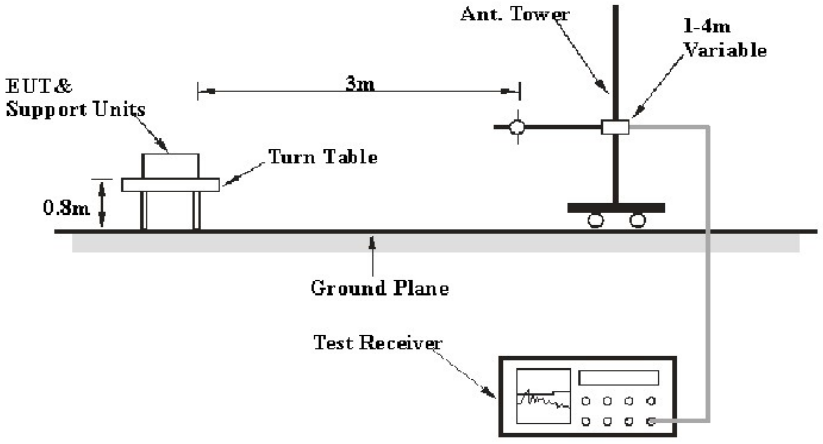
2) For 25MHz-75 MHz above or below the band edge, a level of 10 dBm/MHz (105.2dBμV/m) was applied.

3) For 5MHz-25 MHz above or below the band edge, a level of 15.6 dBm/MHz (110.8dBμV/m) was applied.

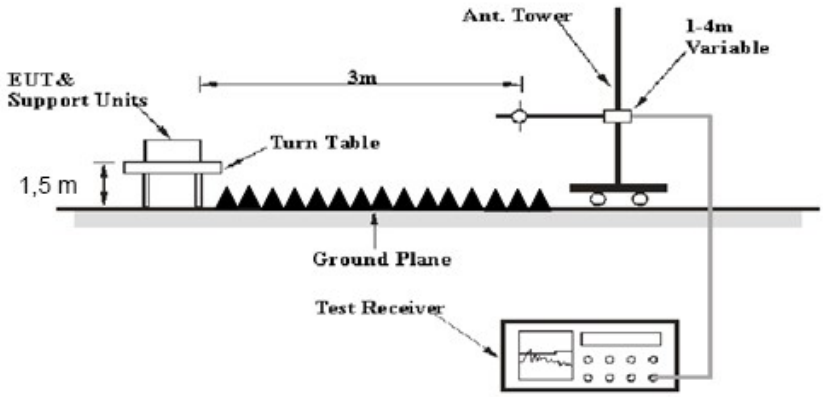
4) For 0 MHz-5 MHz above or below the band edge, a level of 27 dBm/MHz (122.2dBμV/m) was applied.

EUT Setup

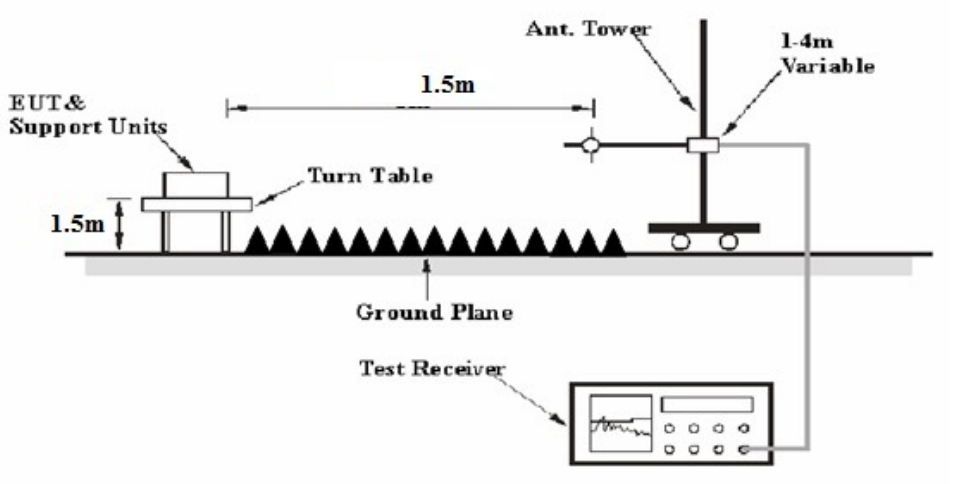
Below 1 GHz:



1-18 GHz:



Above 18 GHz:



The radiated emission tests were performed in the 3 meters semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver or Spectrum Analyzer is set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	QP
Above 1 GHz	1MHz	3 MHz	PK
	1MHz	3 MHz	AV

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1 GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m
Distance extrapolation factor =20 log (specific distance [3m]/test distance [1.5m]) dB
Extrapolation result = Corrected Amplitude (dBμV/m) - distance extrapolation factor (6dB)

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Receiver Reading + Cable loss + Antenna Factor – Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit-Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, Section 15.205 and 15.209, Subpart E, Section 15.407.

Test Data

Environmental Conditions

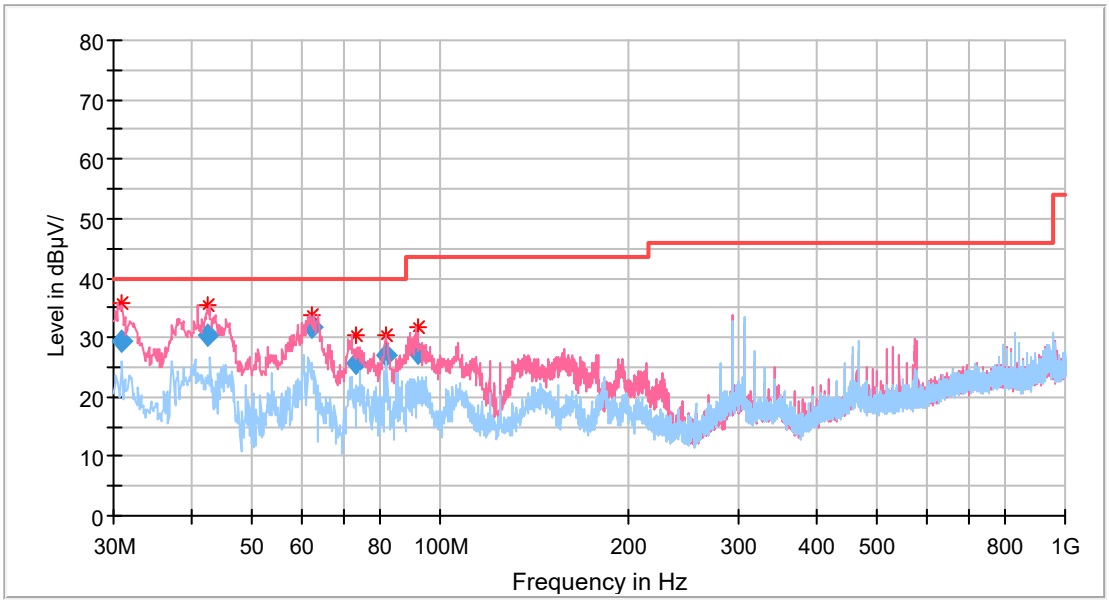
Temperature:	22 °C
Relative Humidity:	49 %
ATM Pressure:	95.6 kPa

The testing was performed by Winfred Wang on 2021-04-24.

Test mode: Transmitting

1) 30 MHz to 1 GHz:

5150-5250MHz band: 802.11n20-High channel - worst case



Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.972402	29.40	40.00	10.60	120.000	124.0	V	4.0	-5.3
42.482625	30.27	40.00	9.73	120.000	114.0	V	344.0	-12.6
62.484000	31.58	40.00	8.42	120.000	112.0	V	272.0	-17.6
73.438375	25.60	40.00	14.40	120.000	115.0	V	53.0	-17.0
81.633625	27.07	40.00	12.93	120.000	102.0	V	0.0	-17.8
91.849125	27.33	43.50	16.17	120.000	122.0	V	0.0	-17.1

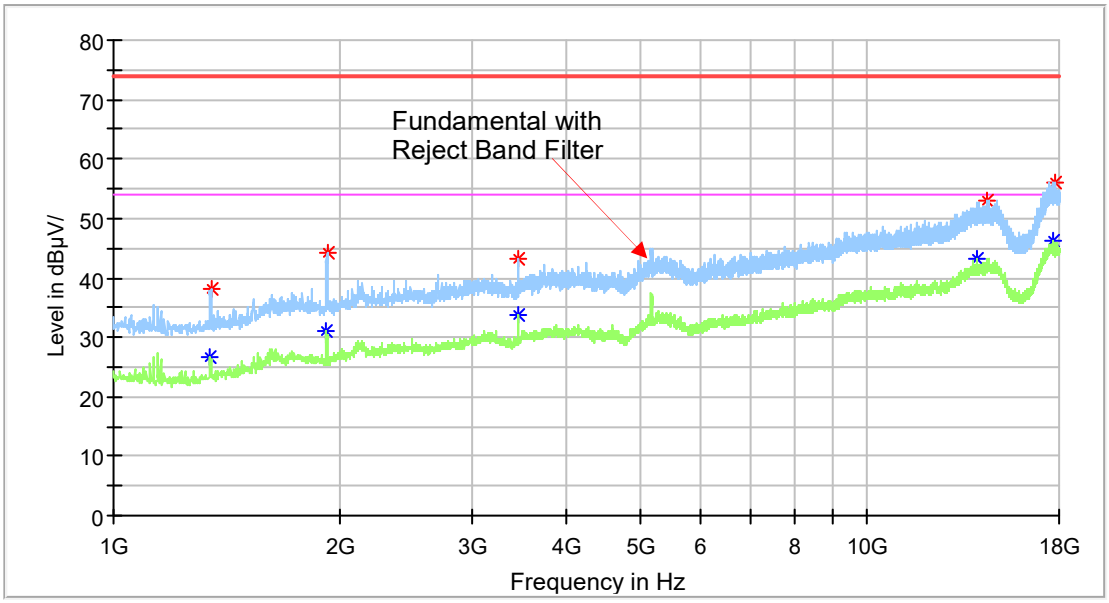
2) 1GHz-40GHz

For 5150-5250 MHz:

For 802.11a mode

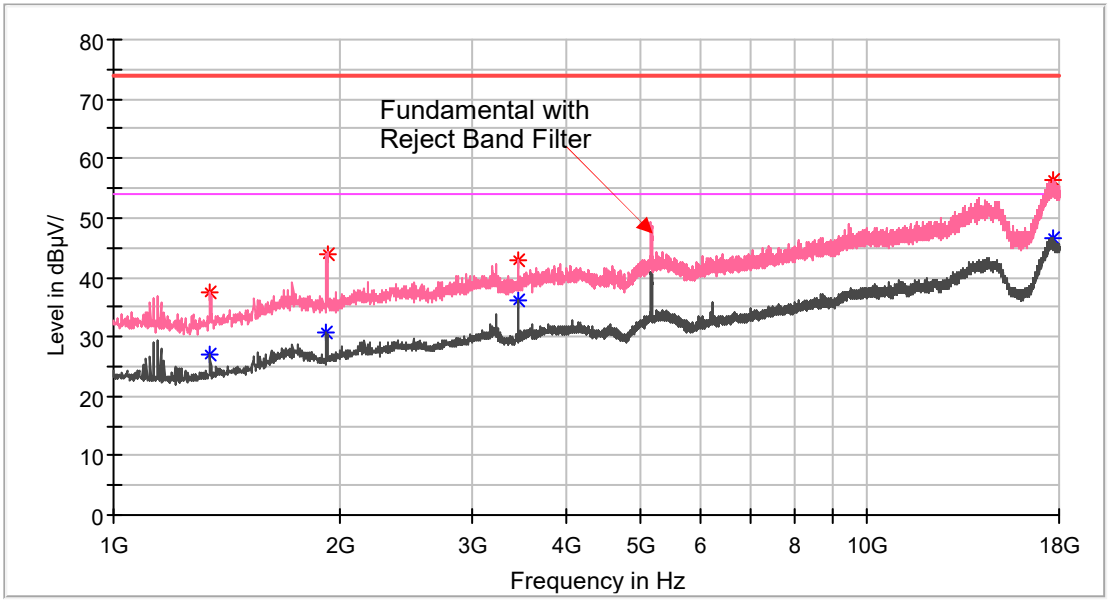
Chain 0

5180 MHz, Horizontal



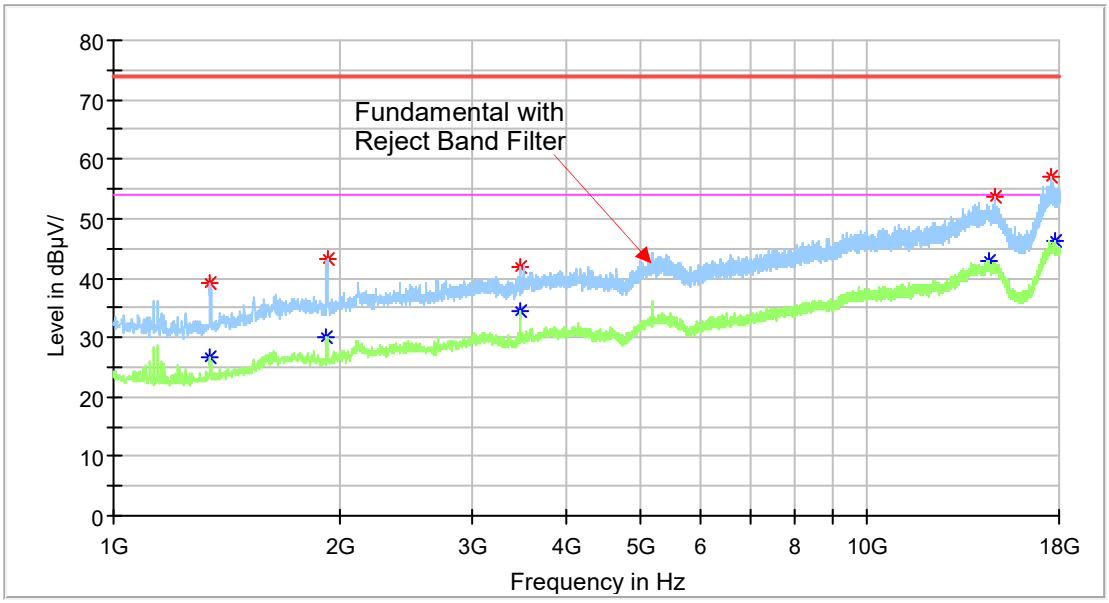
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.76	54.00	27.24	150.0	H	36.0	0.9
1346.800000	38.27	---	74.00	35.73	150.0	H	36.0	0.9
1918.000000	---	30.92	54.00	23.08	200.0	H	129.0	5.2
1921.400000	44.07	---	74.00	29.93	150.0	H	129.0	5.2
3453.100000	---	33.87	54.00	20.13	150.0	H	140.0	9.3
3453.100000	43.09	---	74.00	30.91	150.0	H	140.0	9.3
14016.900000	---	43.15	54.00	10.85	150.0	H	0.0	25.1
14423.200000	53.01	---	74.00	20.99	150.0	H	353.0	25.5
17649.800000	---	46.17	54.00	7.83	150.0	H	229.0	29.2
17813.000000	56.17	---	74.00	17.83	200.0	H	0.0	29.2

5180 MHz, Vertical



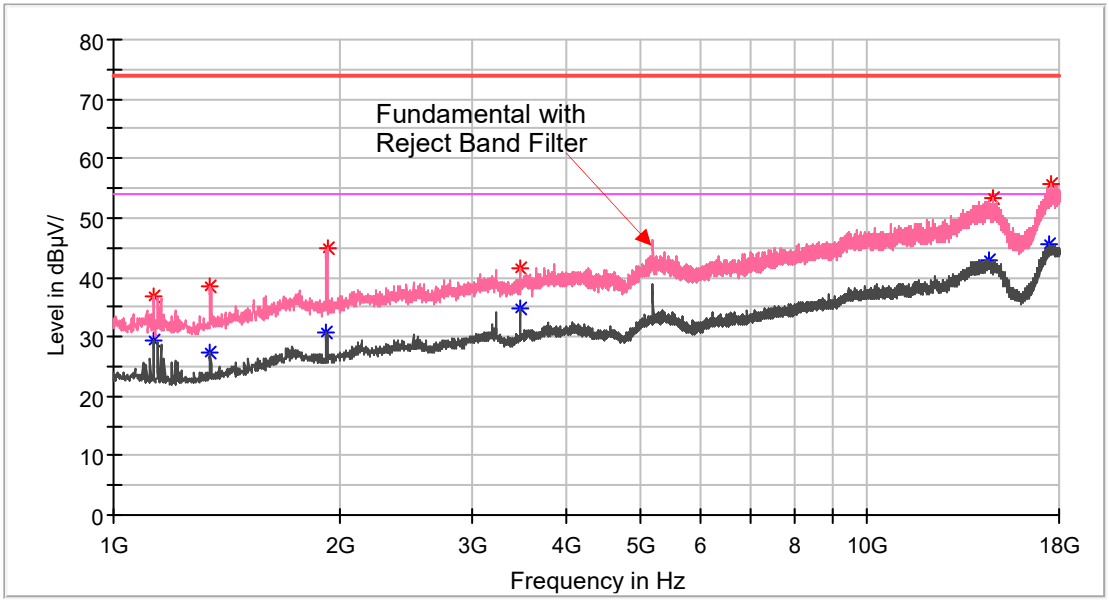
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	---	27.15	54.00	26.85	200.0	V	164.0	0.9
1343.400000	37.49	---	74.00	36.51	150.0	V	340.0	0.9
1918.000000	---	30.59	54.00	23.41	150.0	V	0.0	5.2
1921.400000	43.95	---	74.00	30.05	150.0	V	340.0	5.2
3453.100000	---	36.22	54.00	17.78	150.0	V	186.0	9.3
3453.100000	42.77	---	74.00	31.23	150.0	V	186.0	9.3
17643.000000	---	46.67	54.00	7.33	150.0	V	208.0	29.2
17671.900000	56.22	---	74.00	17.78	200.0	V	325.0	29.2

5200 MHz, Horizontal



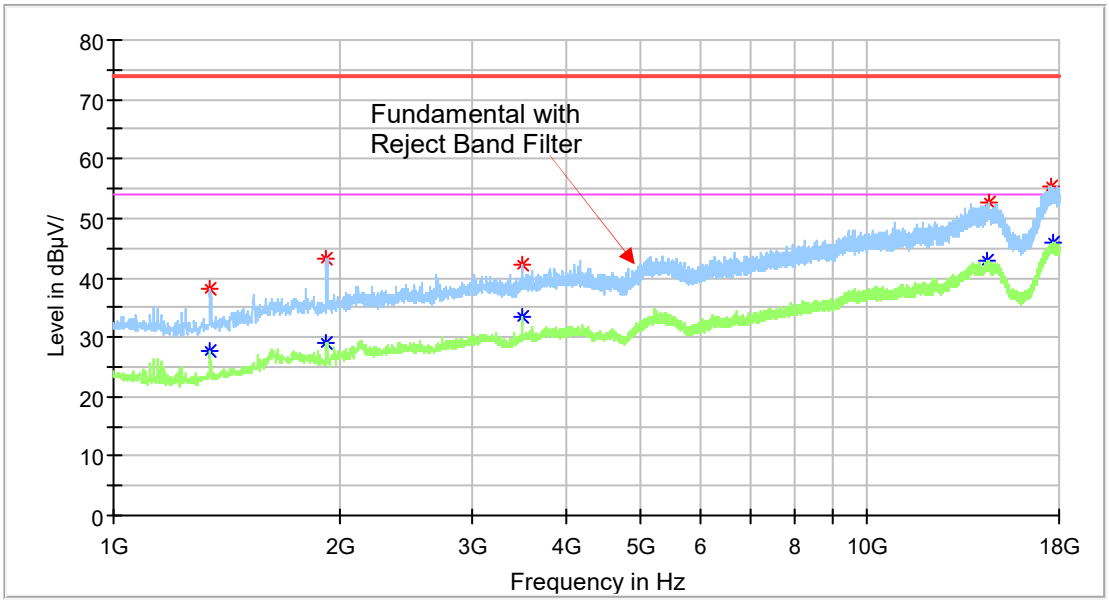
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.70	54.00	27.30	200.0	H	39.0	0.9
1345.100000	39.11	---	74.00	34.89	150.0	H	39.0	0.9
1918.000000	---	30.09	54.00	23.91	150.0	H	142.0	5.2
1923.100000	43.35	---	74.00	30.65	150.0	H	50.0	5.3
3466.700000	41.99	---	74.00	32.01	150.0	H	142.0	9.3
3466.700000	---	34.57	54.00	19.43	150.0	H	142.0	9.3
14504.800000	---	42.91	54.00	11.09	200.0	H	288.0	25.5
14815.900000	53.71	---	74.00	20.29	150.0	H	93.0	25.4
17605.600000	57.01	---	74.00	16.99	200.0	H	142.0	29.2
17731.400000	---	46.32	54.00	7.68	150.0	H	2.0	29.2

5200 MHz, Vertical



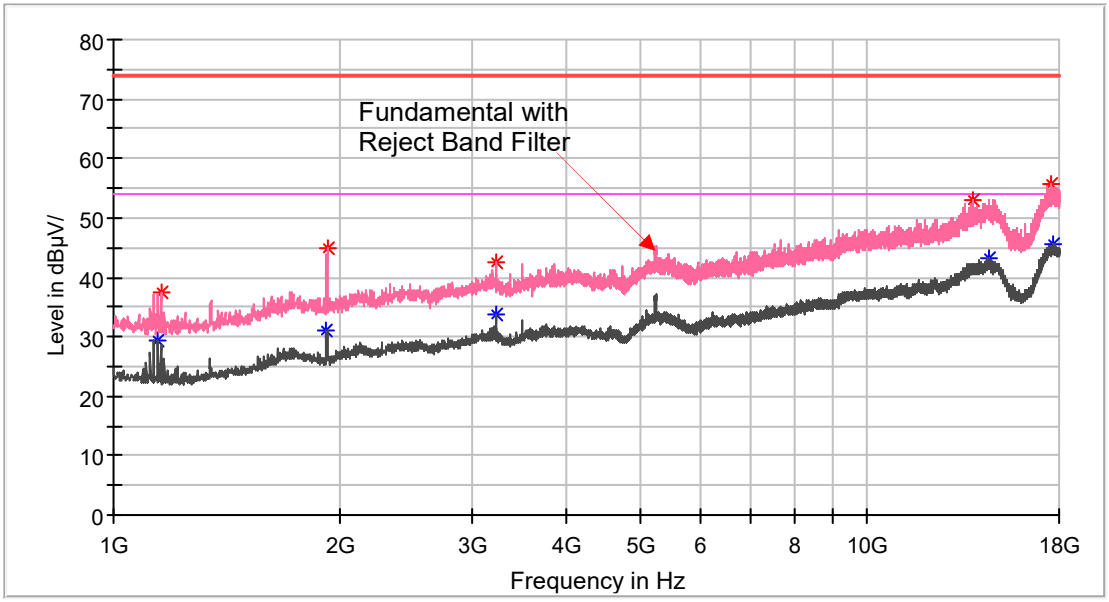
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1130.900000	---	29.29	54.00	24.71	150.0	V	35.0	0.2
1130.900000	36.70	---	74.00	37.30	200.0	V	35.0	0.2
1345.100000	---	27.19	54.00	26.81	150.0	V	127.0	0.9
1345.100000	38.34	---	74.00	35.66	150.0	V	127.0	0.9
1918.000000	---	30.68	54.00	23.32	200.0	V	357.0	5.2
1924.800000	45.00	---	74.00	29.00	150.0	V	357.0	5.3
3466.700000	41.55	---	74.00	32.45	150.0	V	184.0	9.3
3466.700000	---	34.63	54.00	19.37	150.0	V	184.0	9.3
14501.400000	---	42.90	54.00	11.10	200.0	V	0.0	25.5
14746.200000	53.48	---	74.00	20.52	150.0	V	359.0	25.4
17496.800000	---	45.52	54.00	8.48	150.0	V	341.0	29.2
17529.100000	55.72	---	74.00	18.28	150.0	V	22.0	29.2

5240 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	27.70	54.00	26.30	150.0	H	36.0	0.9
1345.100000	38.15	---	74.00	35.85	200.0	H	36.0	0.9
1919.700000	---	29.19	54.00	24.81	150.0	H	117.0	5.2
1919.700000	43.26	---	74.00	30.74	150.0	H	117.0	5.2
3493.900000	---	33.46	54.00	20.54	150.0	H	133.0	9.5
3493.900000	42.05	---	74.00	31.95	150.0	H	133.0	9.5
14458.900000	---	42.87	54.00	11.13	150.0	H	332.0	25.5
14525.200000	52.51	---	74.00	21.49	200.0	H	117.0	25.5
17532.500000	55.41	---	74.00	18.59	150.0	H	222.0	29.2
17697.400000	---	45.93	54.00	8.07	150.0	H	352.0	29.2

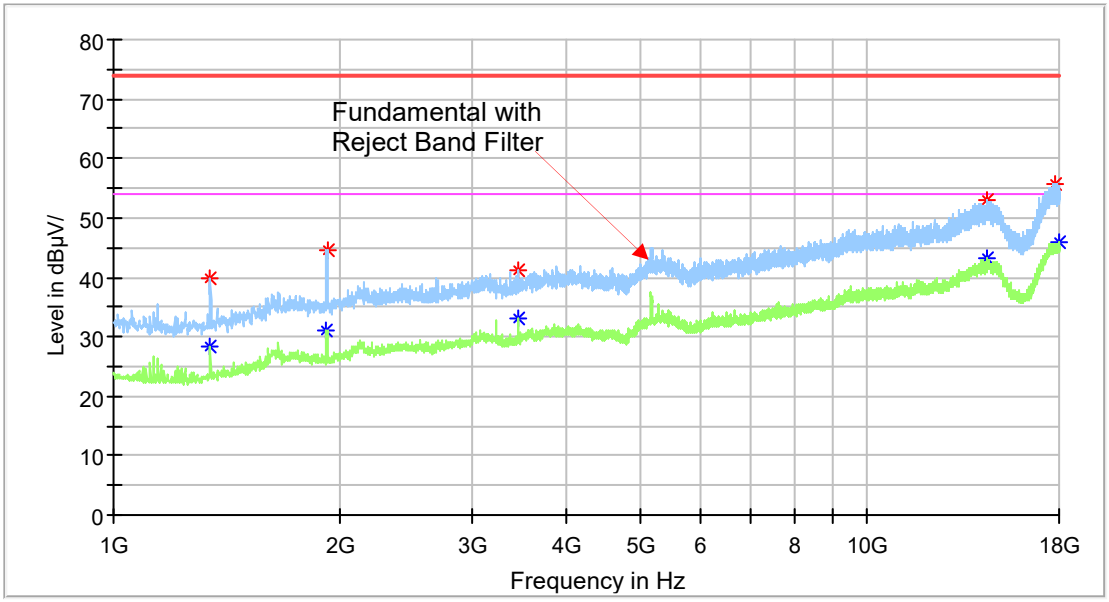
5240 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1142.800000	---	29.52	54.00	24.48	150.0	V	19.0	0.2
1156.400000	37.31	---	74.00	36.69	150.0	V	19.0	0.3
1918.000000	---	30.98	54.00	23.02	150.0	V	1.0	5.2
1923.100000	44.74	---	74.00	29.26	200.0	V	350.0	5.3
3215.100000	---	33.63	54.00	20.37	150.0	V	197.0	8.2
3215.100000	42.54	---	74.00	31.46	150.0	V	197.0	8.2
13812.900000	53.13	---	74.00	20.87	150.0	V	31.0	24.7
14487.800000	---	43.35	54.00	10.65	200.0	V	19.0	25.5
17590.300000	55.65	---	74.00	18.35	150.0	V	3.0	29.2
17631.100000	---	45.51	54.00	8.49	150.0	V	42.0	29.2

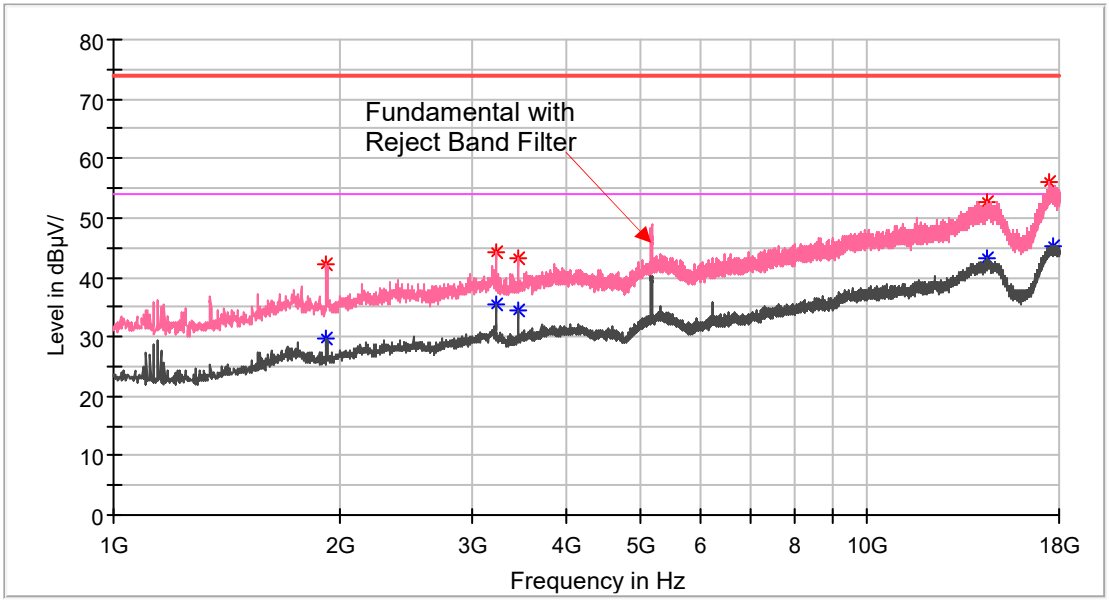
Chain 1

5180 MHz, Horizontal



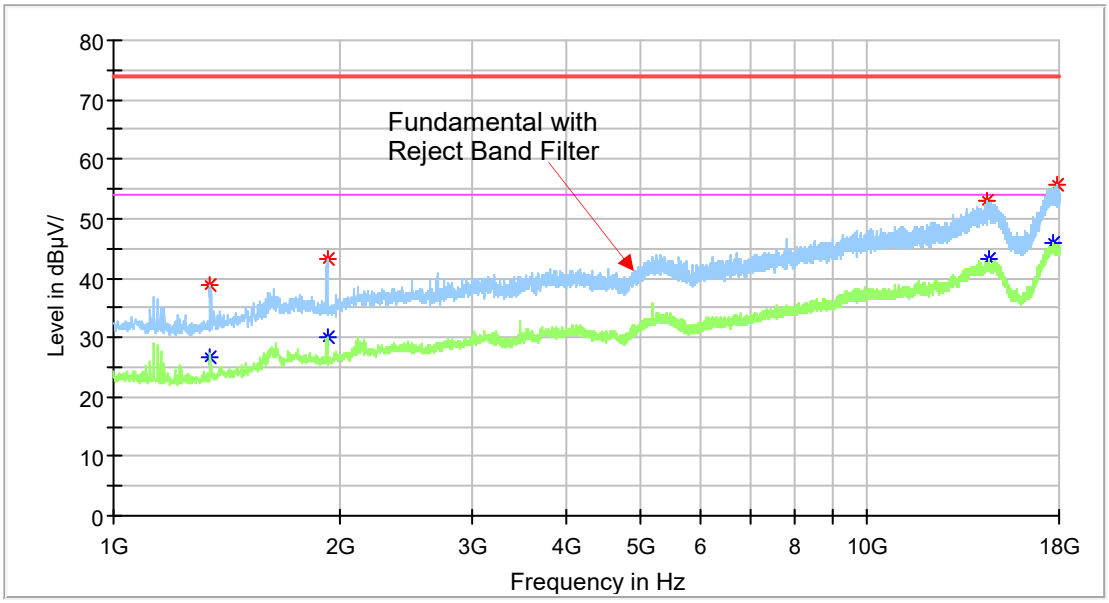
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	28.26	54.00	25.74	150.0	H	37.0	0.9
1345.100000	39.95	---	74.00	34.05	200.0	H	37.0	0.9
1918.000000	---	31.21	54.00	22.79	150.0	H	119.0	5.2
1923.100000	44.72	---	74.00	29.28	150.0	H	131.0	5.3
3453.100000	41.09	---	74.00	32.91	150.0	H	131.0	9.3
3453.100000	---	33.12	54.00	20.88	150.0	H	131.0	9.3
14472.500000	---	43.20	54.00	10.80	200.0	H	256.0	25.5
14475.900000	53.04	---	74.00	20.96	200.0	H	177.0	25.5
17782.400000	55.74	---	74.00	18.26	150.0	H	142.0	29.2
17969.400000	---	45.85	54.00	8.15	150.0	H	290.0	29.2

5180 MHz, Vertical



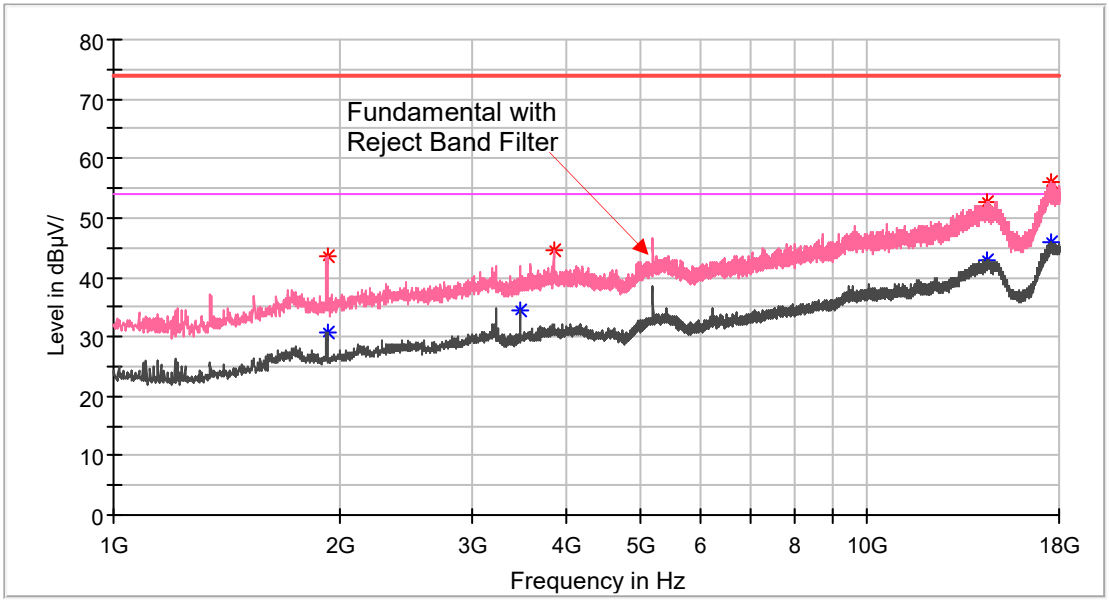
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1918.000000	42.07	---	74.00	31.93	150.0	V	0.0	5.2
1919.700000	---	29.57	54.00	24.43	150.0	V	350.0	5.2
3215.100000	---	35.38	54.00	18.62	200.0	V	221.0	8.2
3215.100000	44.16	---	74.00	29.84	150.0	V	221.0	8.2
3453.100000	43.28	---	74.00	30.72	150.0	V	131.0	9.3
3453.100000	---	34.52	54.00	19.48	150.0	V	131.0	9.3
14453.800000	52.74	---	74.00	21.26	200.0	V	76.0	25.5
14462.300000	---	43.37	54.00	10.63	150.0	V	359.0	25.5
17483.200000	56.05	---	74.00	17.95	150.0	V	54.0	29.1
17695.700000	---	45.26	54.00	8.74	150.0	V	21.0	29.2

5200 MHz, Horizontal



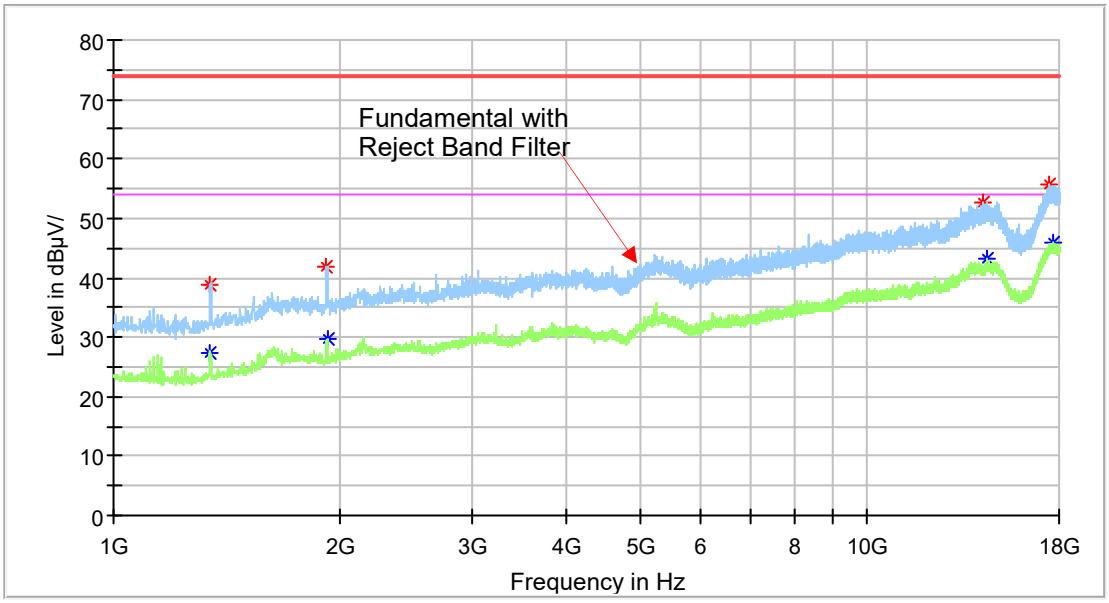
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	---	26.73	54.00	27.27	150.0	H	47.0	0.9
1345.100000	38.76	---	74.00	35.24	200.0	H	36.0	0.9
1921.400000	---	30.06	54.00	23.94	150.0	H	47.0	5.2
1921.400000	43.29	---	74.00	30.71	200.0	H	47.0	5.2
14414.700000	52.93	---	74.00	21.07	150.0	H	170.0	25.5
14511.600000	---	43.19	54.00	10.81	200.0	H	25.0	25.5
17644.700000	---	45.94	54.00	8.06	150.0	H	182.0	29.2
17930.300000	55.66	---	74.00	18.34	150.0	H	286.0	29.2

5200 MHz, Vertical



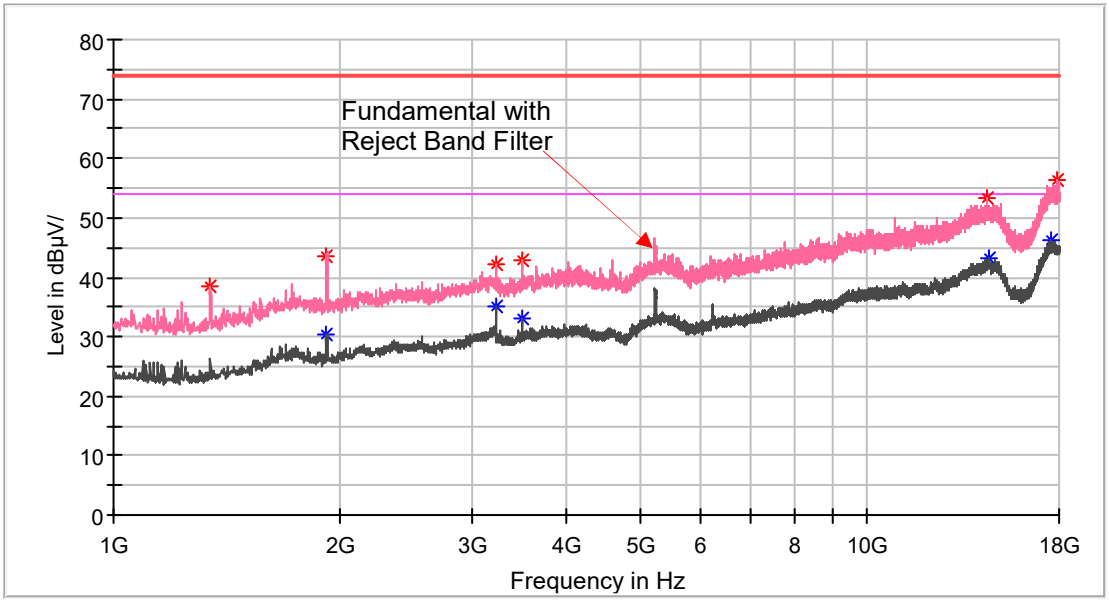
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1921.400000	---	30.82	54.00	23.18	200.0	V	0.0	5.2
1921.400000	43.66	---	74.00	30.34	150.0	V	0.0	5.2
3466.700000	---	34.38	54.00	19.62	200.0	V	194.0	9.3
3835.600000	44.61	---	74.00	29.39	150.0	V	182.0	10.5
14413.000000	---	42.98	54.00	11.02	150.0	V	66.0	25.5
14418.100000	52.80	---	74.00	21.20	150.0	V	101.0	25.5
17513.800000	56.07	---	74.00	17.93	200.0	V	273.0	29.2
17583.500000	---	45.90	54.00	8.10	150.0	V	124.0	29.2

5240 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	27.35	54.00	26.65	150.0	H	23.0	0.9
1345.100000	38.84	---	74.00	35.16	200.0	H	37.0	0.9
1919.700000	41.92	---	74.00	32.08	150.0	H	132.0	5.2
1921.400000	---	29.86	54.00	24.14	200.0	H	132.0	5.2
14295.700000	52.59	---	74.00	21.41	150.0	H	329.0	25.3
14462.300000	---	43.08	54.00	10.92	200.0	H	0.0	25.5
17507.000000	55.58	---	74.00	18.42	150.0	H	318.0	29.2
17651.500000	---	45.88	54.00	8.12	150.0	H	340.0	29.2

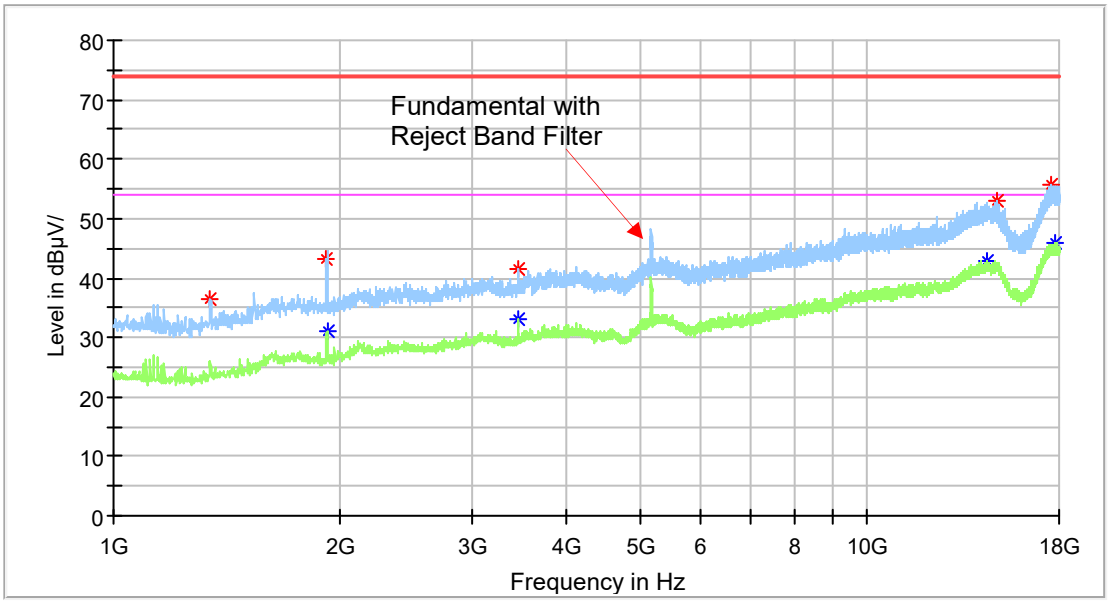
5240 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	38.54	---	74.00	35.46	150.0	V	332.0	0.9
1916.300000	43.59	---	74.00	30.41	150.0	V	21.0	5.2
1919.700000	---	30.32	54.00	23.68	200.0	V	1.0	5.2
3215.100000	42.21	---	74.00	31.79	150.0	V	212.0	8.2
3215.100000	---	35.27	54.00	18.73	150.0	V	212.0	8.2
3493.900000	---	33.11	54.00	20.89	150.0	V	212.0	9.5
3493.900000	42.94	---	74.00	31.06	150.0	V	212.0	9.5
14467.400000	53.37	---	74.00	20.63	200.0	V	110.0	25.5
14503.100000	---	43.17	54.00	10.83	150.0	V	10.0	25.5
17603.900000	---	46.10	54.00	7.90	150.0	V	1.0	29.2
17875.900000	56.25	---	74.00	17.75	150.0	V	306.0	29.2

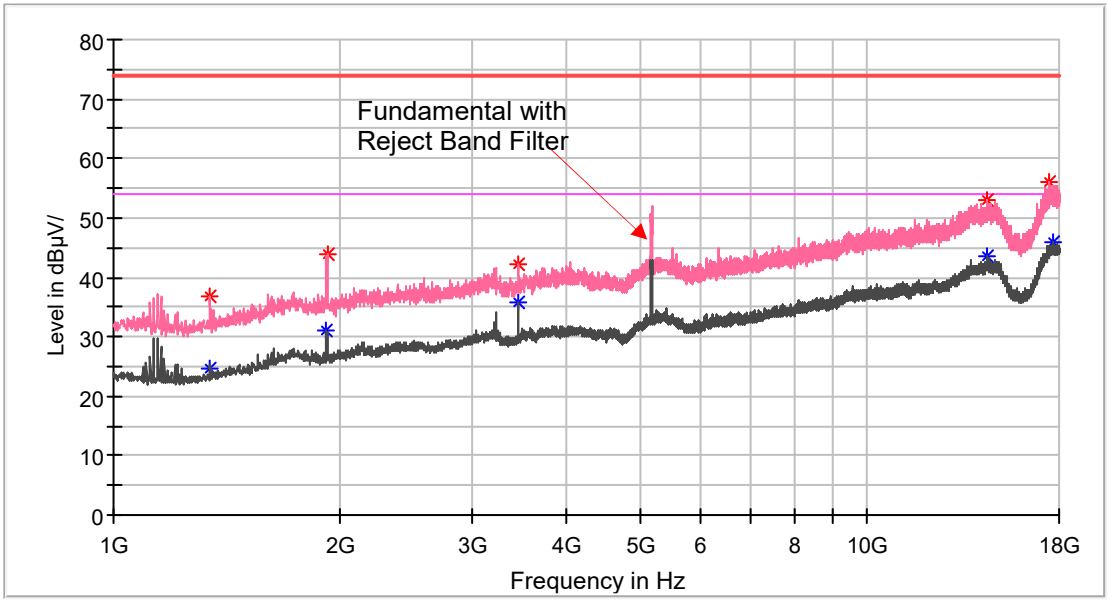
For 802.11n-HT20 mode (Chain 0 + Chain 1)

5180 MHz, Horizontal



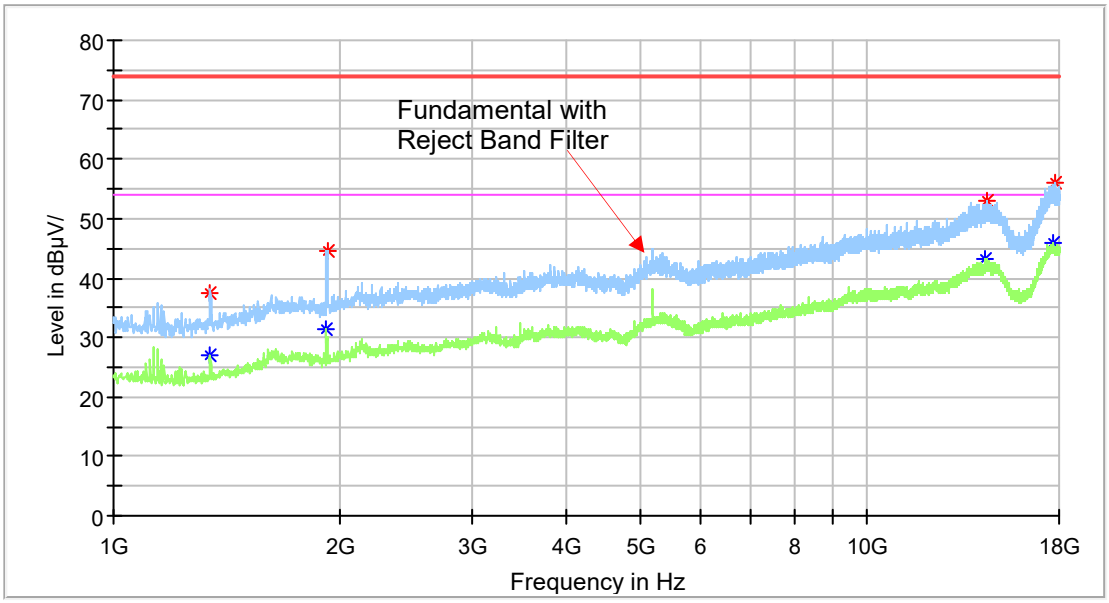
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	36.49	---	74.00	37.51	150.0	H	30.0	0.9
1918.000000	43.23	---	74.00	30.77	200.0	H	130.0	5.2
1921.400000	---	30.94	54.00	23.06	150.0	H	130.0	5.2
3453.100000	---	33.19	54.00	20.81	150.0	H	142.0	9.3
3453.100000	41.46	---	74.00	32.54	200.0	H	142.0	9.3
14438.500000	---	42.76	54.00	11.24	200.0	H	142.0	25.5
14904.300000	52.84	---	74.00	21.16	150.0	H	258.0	25.4
17541.000000	55.77	---	74.00	18.23	150.0	H	331.0	29.2
17813.000000	---	45.85	54.00	8.15	150.0	H	96.0	29.2

5180 MHz, Vertical



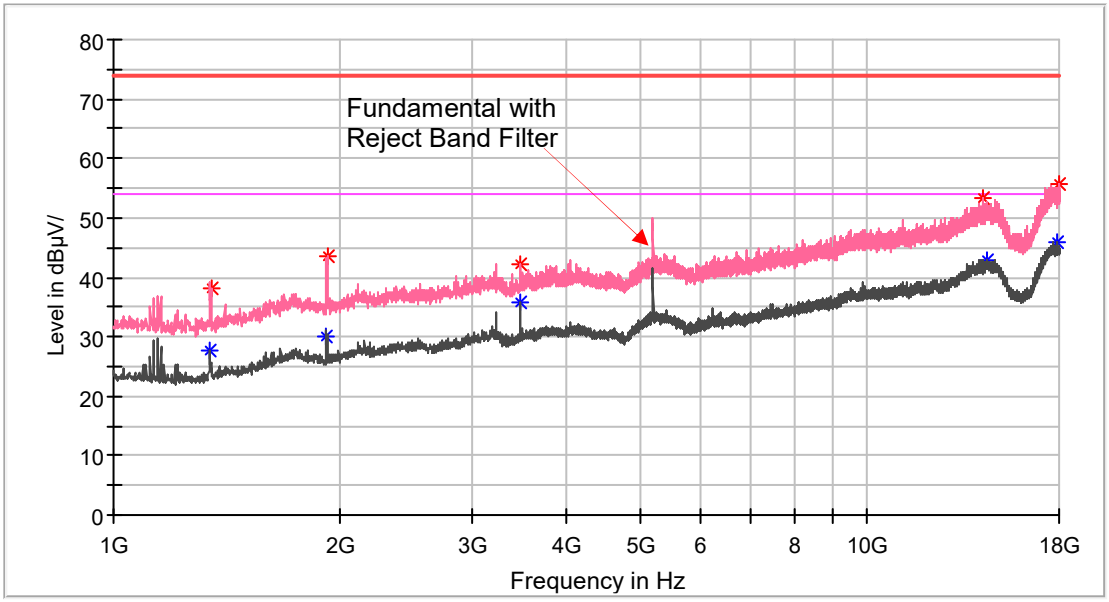
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1340.000000	---	24.78	54.00	29.22	200.0	V	134.0	0.9
1340.000000	36.88	---	74.00	37.12	150.0	V	134.0	0.9
1918.000000	---	31.08	54.00	22.92	150.0	V	0.0	5.2
1923.100000	43.74	---	74.00	30.26	200.0	V	350.0	5.3
3453.100000	---	35.87	54.00	18.13	150.0	V	180.0	9.3
3453.100000	42.26	---	74.00	31.74	150.0	V	180.0	9.3
14440.200000	53.04	---	74.00	20.96	150.0	V	4.0	25.5
14469.100000	---	43.40	54.00	10.60	150.0	V	238.0	25.5
17433.900000	55.88	---	74.00	18.12	200.0	V	134.0	28.8
17663.400000	---	45.80	54.00	8.20	150.0	V	55.0	29.2

5200 MHz, Horizontal



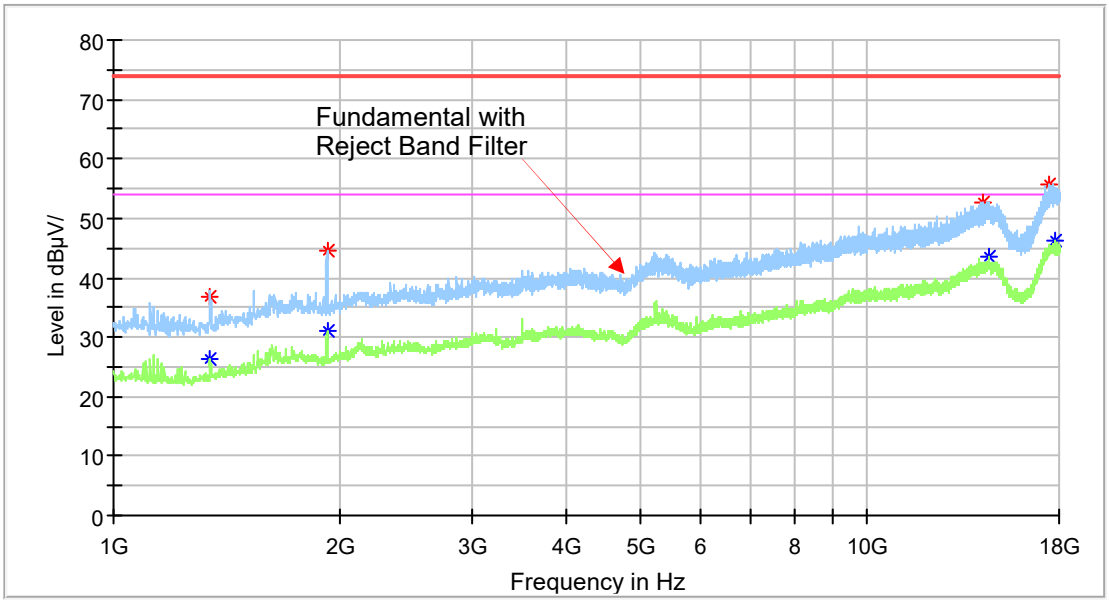
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	37.35	---	74.00	36.65	150.0	H	284.0	0.9
1345.100000	---	26.87	54.00	27.13	200.0	H	284.0	0.9
1918.000000	---	31.39	54.00	22.61	150.0	H	126.0	5.2
1923.100000	44.67	---	74.00	29.33	150.0	H	126.0	5.3
14365.400000	---	43.07	54.00	10.93	200.0	H	0.0	25.4
14428.300000	52.98	---	74.00	21.02	150.0	H	317.0	25.5
17665.100000	---	45.78	54.00	8.22	200.0	H	79.0	29.2
17821.500000	56.16	---	74.00	17.84	150.0	H	356.0	29.2

5200 MHz, Vertical



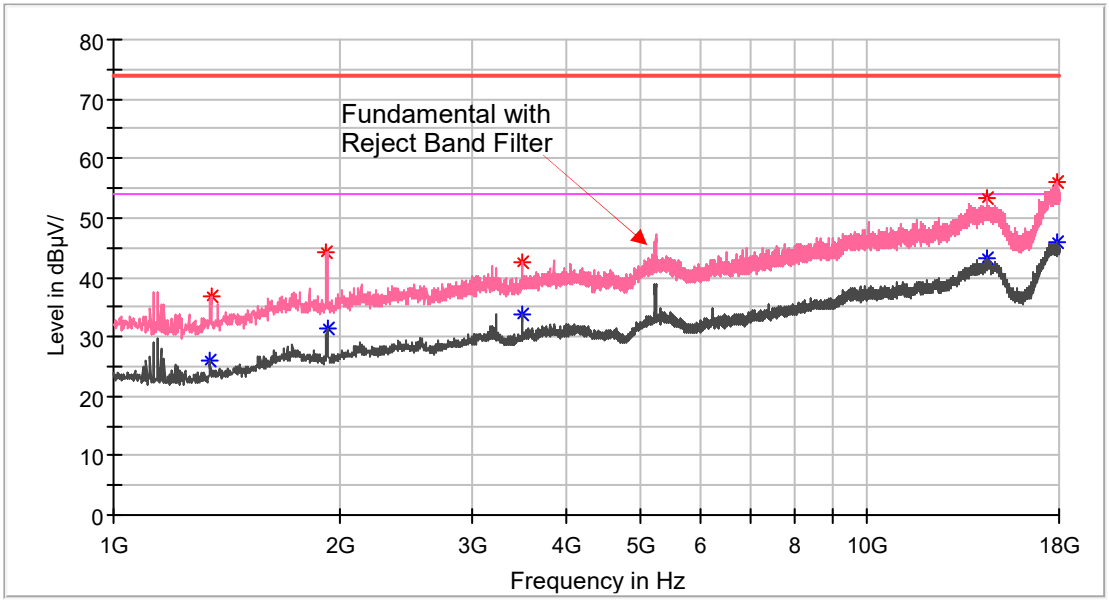
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	27.59	54.00	26.41	150.0	V	131.0	0.9
1346.800000	38.28	---	74.00	35.72	150.0	V	335.0	0.9
1916.300000	---	30.08	54.00	23.92	200.0	V	0.0	5.2
1923.100000	43.42	---	74.00	30.58	150.0	V	0.0	5.3
3466.700000	42.05	---	74.00	31.95	200.0	V	178.0	9.3
3466.700000	---	35.90	54.00	18.10	150.0	V	178.0	9.3
14280.400000	53.31	---	74.00	20.69	150.0	V	245.0	25.3
14479.300000	---	43.01	54.00	10.99	200.0	V	178.0	25.5
17853.800000	---	45.94	54.00	8.06	150.0	V	0.0	29.2
17966.000000	55.55	---	74.00	18.45	150.0	V	0.0	29.2

5240 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1340.000000	36.95	---	74.00	37.05	150.0	H	286.0	0.9
1341.700000	---	26.31	54.00	27.69	200.0	H	299.0	0.9
1921.400000	---	30.99	54.00	23.01	150.0	H	125.0	5.2
1921.400000	44.59	---	74.00	29.41	150.0	H	125.0	5.2
14232.800000	52.73	---	74.00	21.27	150.0	H	9.0	25.3
14492.900000	---	43.43	54.00	10.57	200.0	H	274.0	25.5
17493.400000	55.77	---	74.00	18.23	150.0	H	286.0	29.2
17738.200000	---	46.11	54.00	7.89	200.0	H	114.0	29.2

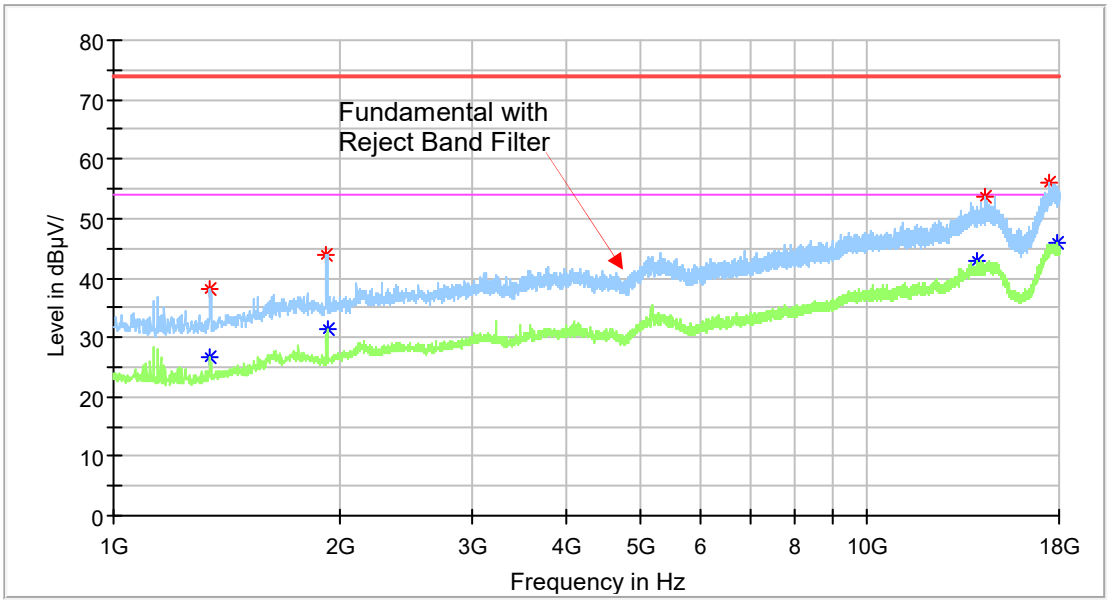
5240 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.02	54.00	27.98	150.0	V	149.0	0.9
1346.800000	36.64	---	74.00	37.36	200.0	V	337.0	0.9
1919.700000	44.12	---	74.00	29.88	150.0	V	0.0	5.2
1921.400000	---	31.29	54.00	22.71	150.0	V	14.0	5.2
3493.900000	---	33.73	54.00	20.27	150.0	V	172.0	9.5
3493.900000	42.63	---	74.00	31.37	200.0	V	172.0	9.5
14465.700000	---	43.10	54.00	10.90	150.0	V	82.0	25.5
14467.400000	53.31	---	74.00	20.69	150.0	V	0.0	25.5
17867.400000	---	45.91	54.00	8.09	150.0	V	276.0	29.2
17884.400000	55.91	---	74.00	18.09	150.0	V	288.0	29.2

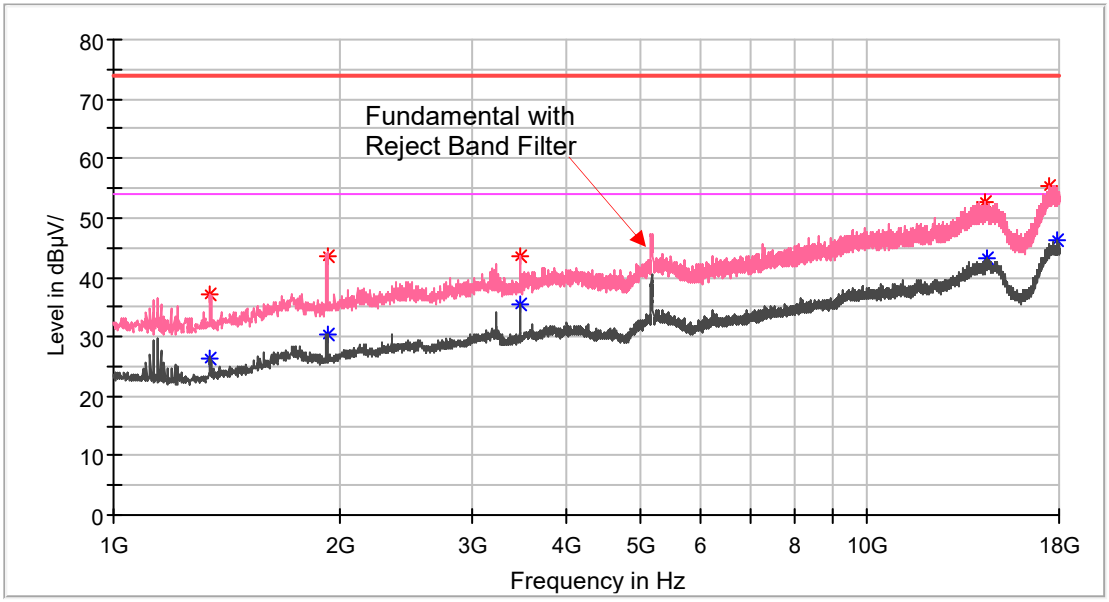
For 802.11n-HT40 mode (Chain 0 + Chain 1)

5190 MHz, Horizontal



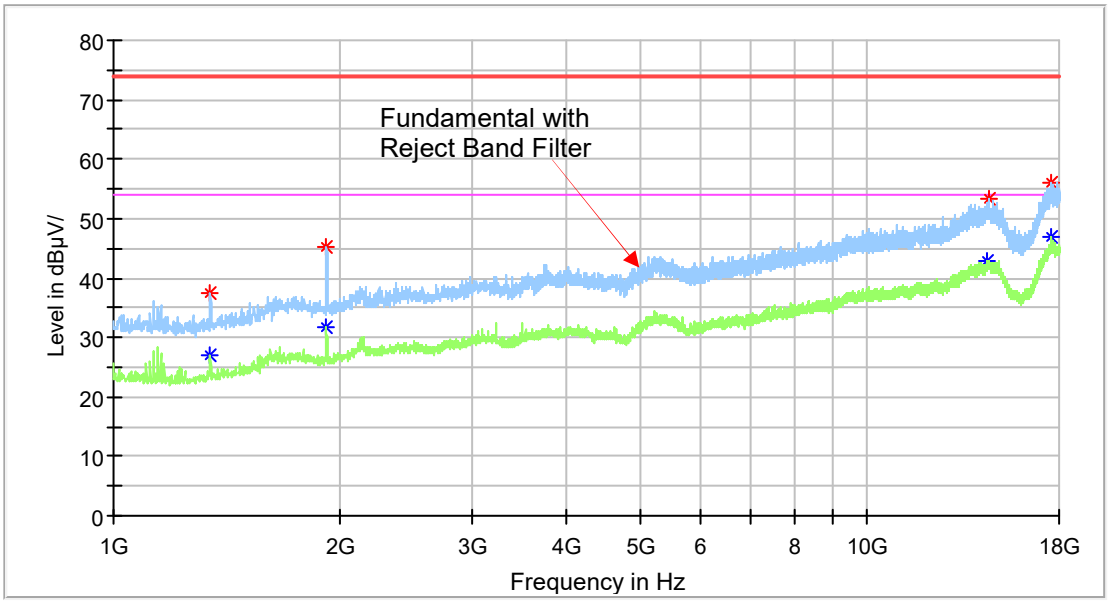
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.56	54.00	27.44	200.0	H	290.0	0.9
1341.700000	38.12	---	74.00	35.88	150.0	H	290.0	0.9
1916.300000	44.03	---	74.00	29.97	150.0	H	119.0	5.2
1921.400000	---	31.39	54.00	22.61	150.0	H	119.0	5.2
14025.400000	---	42.83	54.00	11.17	200.0	H	354.0	25.1
14363.700000	53.63	---	74.00	20.37	150.0	H	130.0	25.4
17484.900000	56.15	---	74.00	17.85	200.0	H	313.0	29.1
17845.300000	---	45.75	54.00	8.25	150.0	H	164.0	29.2

5190 MHz, Vertical



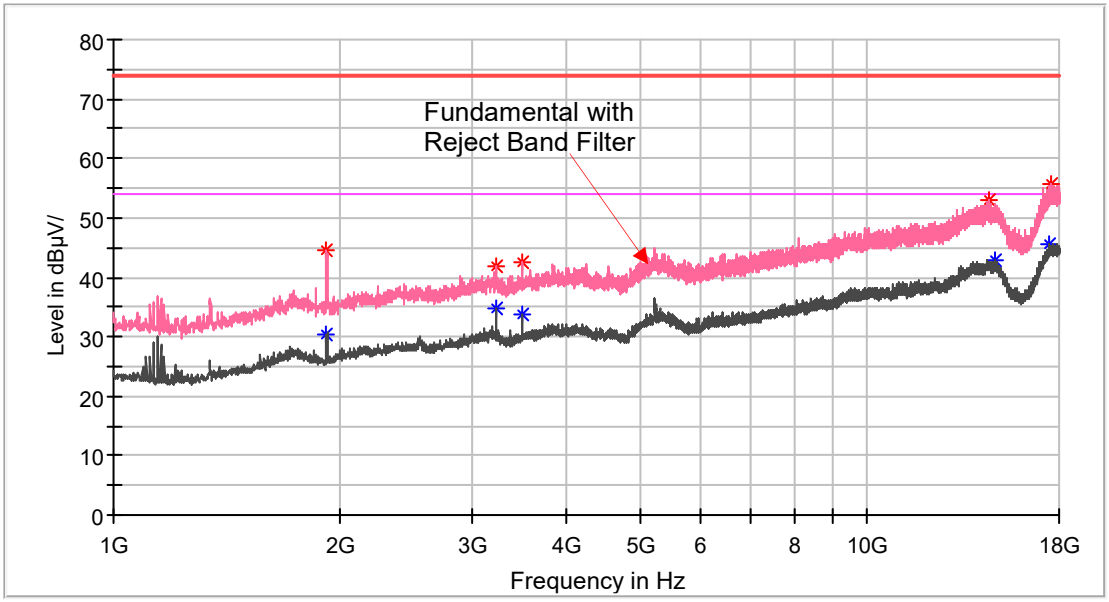
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.45	54.00	27.55	150.0	V	131.0	0.9
1345.100000	37.28	---	74.00	36.72	150.0	V	339.0	0.9
1921.400000	43.67	---	74.00	30.33	200.0	V	0.0	5.2
1923.100000	---	30.54	54.00	23.46	150.0	V	2.0	5.3
3459.900000	43.63	---	74.00	30.37	150.0	V	189.0	9.3
3459.900000	---	35.56	54.00	18.44	200.0	V	189.0	9.3
14353.500000	52.78	---	74.00	21.22	150.0	V	155.0	25.4
14445.300000	---	43.08	54.00	10.92	150.0	V	0.0	25.5
17510.400000	55.37	---	74.00	18.63	150.0	V	155.0	29.2
17943.900000	---	46.18	54.00	7.82	150.0	V	262.0	29.2

5230 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	37.41	---	74.00	36.59	150.0	H	24.0	0.9
1345.100000	---	26.91	54.00	27.09	200.0	H	279.0	0.9
1918.000000	---	31.61	54.00	22.39	150.0	H	120.0	5.2
1919.700000	45.28	---	74.00	28.72	150.0	H	120.0	5.2
14448.700000	---	42.98	54.00	11.02	200.0	H	165.0	25.5
14566.000000	53.17	---	74.00	20.83	150.0	H	246.0	25.5
17527.400000	---	46.76	54.00	7.24	150.0	H	211.0	29.2
17546.100000	56.17	---	74.00	17.83	200.0	H	0.0	29.2

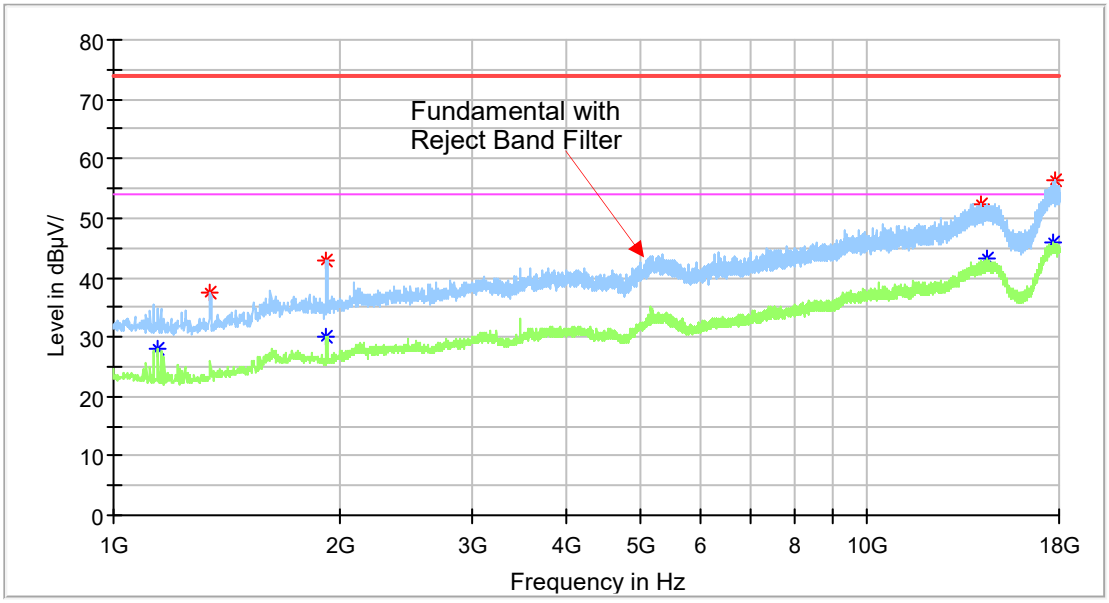
5230 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1919.700000	---	30.40	54.00	23.60	150.0	V	24.0	5.2
1919.700000	44.39	---	74.00	29.61	200.0	V	24.0	5.2
3215.100000	41.97	---	74.00	32.03	150.0	V	216.0	8.2
3215.100000	---	34.78	54.00	19.22	150.0	V	216.0	8.2
3487.100000	---	33.60	54.00	20.40	150.0	V	170.0	9.4
3487.100000	42.45	---	74.00	31.55	200.0	V	170.0	9.4
14504.800000	52.96	---	74.00	21.04	150.0	V	2.0	25.5
14822.700000	---	43.00	54.00	11.00	150.0	V	2.0	25.4
17500.200000	---	45.51	54.00	8.49	150.0	V	159.0	29.2
17542.700000	55.55	---	74.00	18.45	150.0	V	205.0	29.2

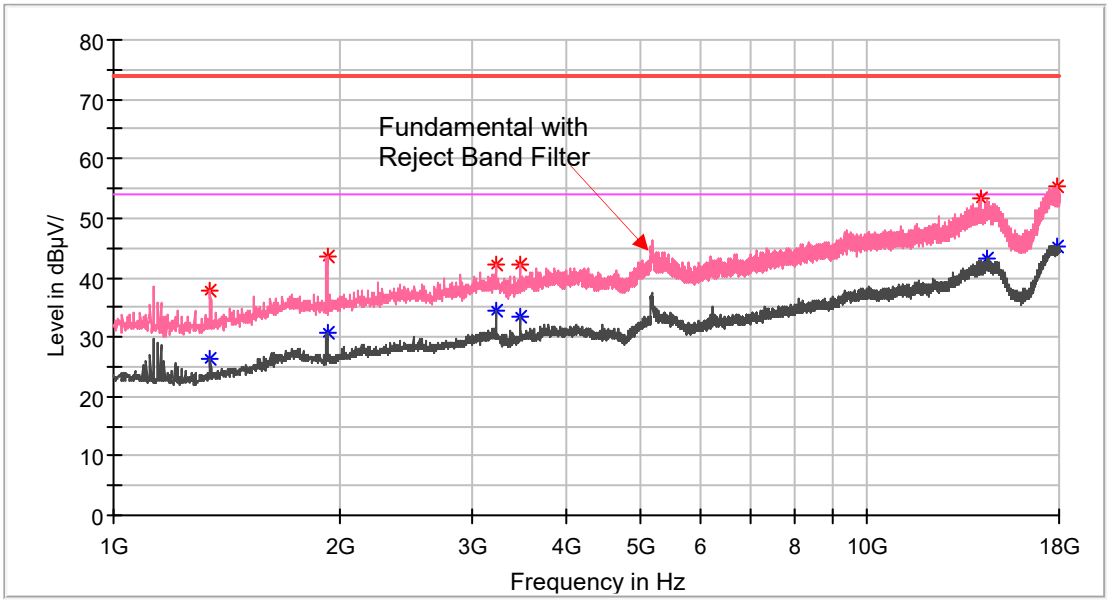
For 802.11ac80 mode (Chain 0 + Chain 1)

5210 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1142.800000	---	27.93	54.00	26.07	150.0	H	53.0	0.2
1345.100000	37.34	---	74.00	36.66	150.0	H	42.0	0.9
1918.000000	43.02	---	74.00	30.98	200.0	H	53.0	5.2
1919.700000	---	30.14	54.00	23.86	150.0	H	53.0	5.2
14159.700000	52.45	---	74.00	21.55	200.0	H	75.0	25.2
14457.200000	---	43.18	54.00	10.82	150.0	H	0.0	25.5
17671.900000	---	45.76	54.00	8.24	200.0	H	4.0	29.2
17758.600000	56.41	---	74.00	17.59	150.0	H	110.0	29.2

5210 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.28	54.00	27.72	200.0	V	132.0	0.9
1341.700000	37.93	---	74.00	36.07	150.0	V	132.0	0.9
1921.400000	---	30.63	54.00	23.37	150.0	V	0.0	5.2
1921.400000	43.40	---	74.00	30.60	200.0	V	0.0	5.2
3215.100000	42.13	---	74.00	31.87	150.0	V	223.0	8.2
3215.100000	---	34.57	54.00	19.43	150.0	V	223.0	8.2
3473.500000	---	33.50	54.00	20.50	150.0	V	177.0	9.4
3473.500000	42.26	---	74.00	31.74	150.0	V	177.0	9.4
14171.600000	53.49	---	74.00	20.51	200.0	V	0.0	25.2
14460.600000	---	43.16	54.00	10.84	150.0	V	166.0	25.5
17838.500000	---	45.39	54.00	8.61	150.0	V	300.0	29.2
17928.600000	55.45	---	74.00	18.55	150.0	V	200.0	29.2

Band Edge Emission:

802.11a Mode

Chain 0

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBµV	PK/AV	H/V	dB(1/m)	dB	dB	dBµV/m	dBµV/m	dB
Frequency: 5180 MHz									
5180	58.85	PK	V	33.75	4.69	0.00	97.29	N/A	N/A
5180	45.23	AV	V	33.75	4.69	0.00	83.67	N/A	N/A
5150	27.65	PK	V	33.71	4.68	0.00	66.04	74.00	7.96
5150	13.53	AV	V	33.71	4.68	0.00	51.92	54.00	2.08
Frequency: 5240 MHz									
5240	59.26	PK	V	33.84	4.72	0.00	97.82	N/A	N/A
5240	44.77	AV	V	33.84	4.72	0.00	83.33	N/A	N/A
5350	27.21	PK	V	33.99	4.78	0.00	65.98	74.00	8.02
5350	13.19	AV	V	33.99	4.78	0.00	51.96	54.00	2.04

Chain 1

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBµV	PK/AV	H/V	dB(1/m)	dB	dB	dBµV/m	dBµV/m	dB
Frequency: 5180 MHz									
5180	54.92	PK	V	33.75	4.69	0.00	93.36	N/A	N/A
5180	41.6	AV	V	33.75	4.69	0.00	80.04	N/A	N/A
5150	27.38	PK	V	33.71	4.68	0.00	65.77	74.00	8.23
5150	13.52	AV	V	33.71	4.68	0.00	51.91	54.00	2.09
Frequency: 5240 MHz									
5240	61.02	PK	V	33.84	4.72	0.00	99.58	N/A	N/A
5240	47.56	AV	V	33.84	4.72	0.00	86.12	N/A	N/A
5350	27.22	PK	V	33.99	4.78	0	65.99	74.00	8.01
5350	13.20	AV	V	33.99	4.78	0	51.97	54.00	2.03

802.11n-HT20 Mode

Chain 0 + Chain 1

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBµV	PK/AV	H/V	dB(1/m)	dB	dB	dBµV/m	dBµV/m	dB
Frequency: 5180 MHz									
5180	60.61	PK	V	33.75	4.69	0.00	99.05	N/A	N/A
5180	48.56	AV	V	33.75	4.69	0.00	87.00	N/A	N/A
5150	27.36	PK	V	33.71	4.68	0.00	65.75	74.00	8.25
5150	13.53	AV	V	33.71	4.68	0.00	51.92	54.00	2.08
Frequency: 5240 MHz									
5240	62.55	PK	V	33.84	4.72	0.00	101.11	N/A	N/A
5240	49.15	AV	V	33.84	4.72	0.00	87.71	N/A	N/A
5350	26.81	PK	V	33.99	4.78	0.00	65.58	74.00	8.42
5350	13.21	AV	V	33.99	4.78	0.00	51.98	54.00	2.02

802.11n-HT40 Mode

Chain 0 + Chain 1

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBµV	PK/AV	H/V	dB(1/m)	dB	dB	dBµV/m	dBµV/m	dB
Frequency: 5190 MHz									
5190	57.48	PK	V	33.77	4.70	0.00	95.95	N/A	N/A
5190	43.74	AV	V	33.77	4.70	0.00	82.21	N/A	N/A
5150	27.9	PK	V	33.71	4.68	0.00	66.29	74.00	7.71
5150	13.54	AV	V	33.71	4.68	0.00	51.93	54.00	2.07
Frequency: 5230 MHz									
5230	57.75	PK	V	33.82	4.72	0.00	96.29	N/A	N/A
5230	44.01	AV	V	33.82	4.72	0.00	82.55	N/A	N/A
5350	27.4	PK	V	33.99	4.78	0.00	66.17	74.00	7.83
5350	13.29	AV	V	33.99	4.78	0.00	52.06	54.00	1.94

802.11ac80 **Mode**

Chain 0 + Chain 1

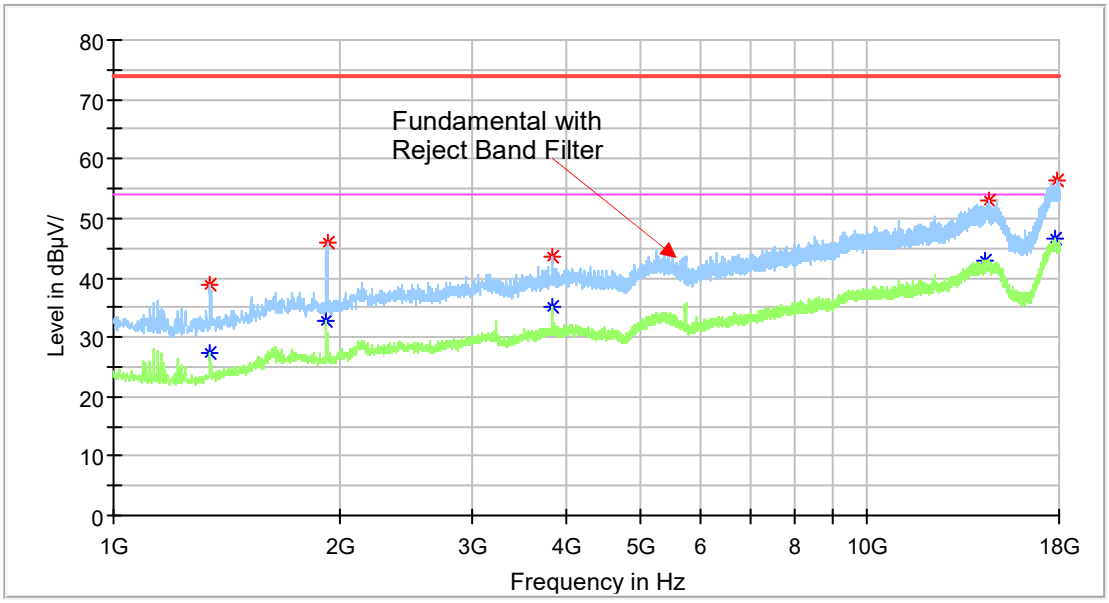
Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
	Reading	Measurement	Polar	Factor					
MHz	dBµV	PK/AV	H/V	dB(1/m)	dB	dB	dBµV/m	dBµV/m	dB
Frequency: 5210 MHz									
5210	55.42	PK	V	33.79	4.71	0.00	93.92	N/A	N/A
5210	38.75	AV	V	33.79	4.71	0.00	77.25	N/A	N/A
5150	27.76	PK	V	33.71	4.68	0.00	66.15	74.00	7.85
5150	13.57	AV	V	33.71	4.68	0.00	51.96	54.00	2.04
5350	27.47	PK	V	33.99	4.78	0.00	66.24	74.00	7.76
5350	13.18	AV	V	33.99	4.78	0.00	51.95	54.00	2.05

For 5725-5850 MHz:

For 802.11a mode

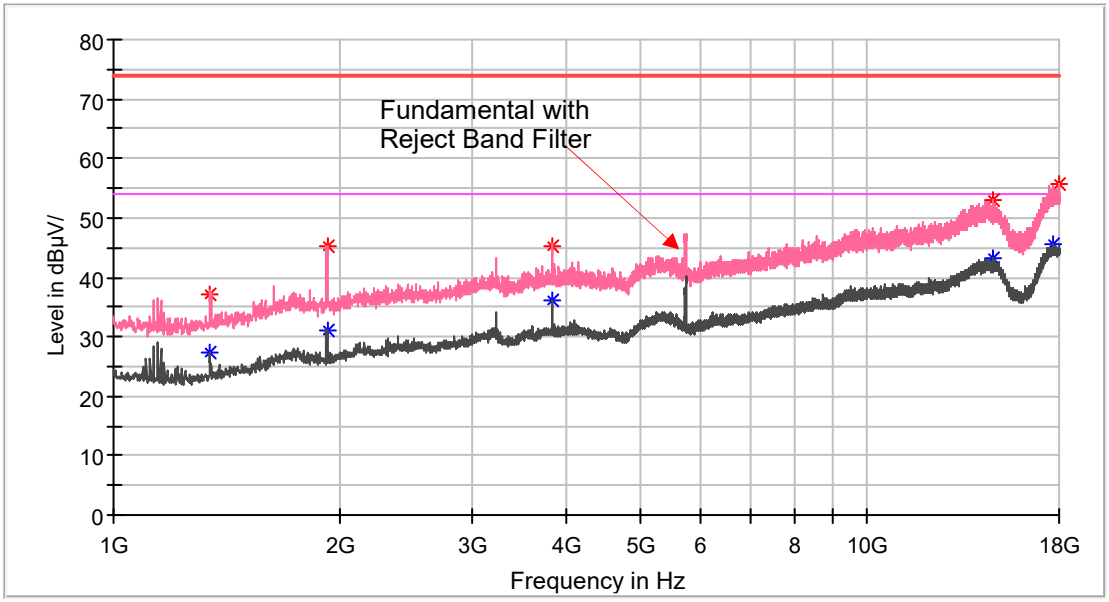
Chain 0

5745 MHz, Horizontal



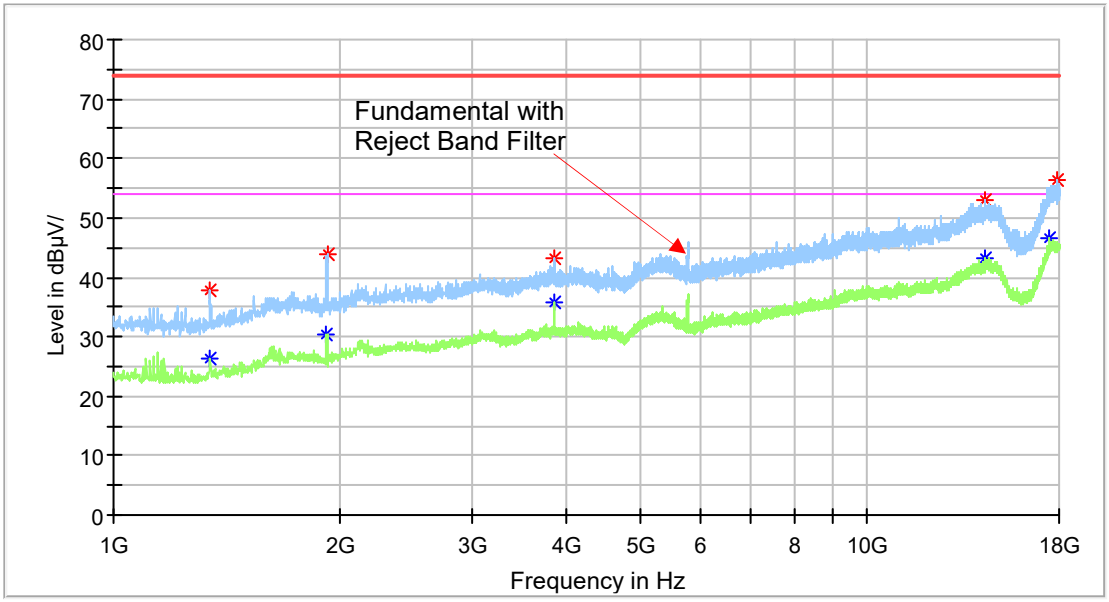
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	27.23	54.00	26.77	150.0	H	285.0	0.9
1341.700000	38.98	---	74.00	35.02	150.0	H	285.0	0.9
1918.000000	---	32.68	54.00	21.32	200.0	H	124.0	5.2
1923.100000	46.05	---	74.00	27.95	150.0	H	124.0	5.3
3830.500000	---	35.00	54.00	19.00	150.0	H	136.0	10.5
3830.500000	43.45	---	74.00	30.55	150.0	H	136.0	10.5
14380.700000	---	42.93	54.00	11.07	150.0	H	63.0	25.4
14545.600000	53.12	---	74.00	20.88	200.0	H	247.0	25.5
17814.700000	---	46.54	54.00	7.46	150.0	H	329.0	29.2
17894.600000	56.40	---	74.00	17.60	150.0	H	274.0	29.2

5745 MHz, Vertical



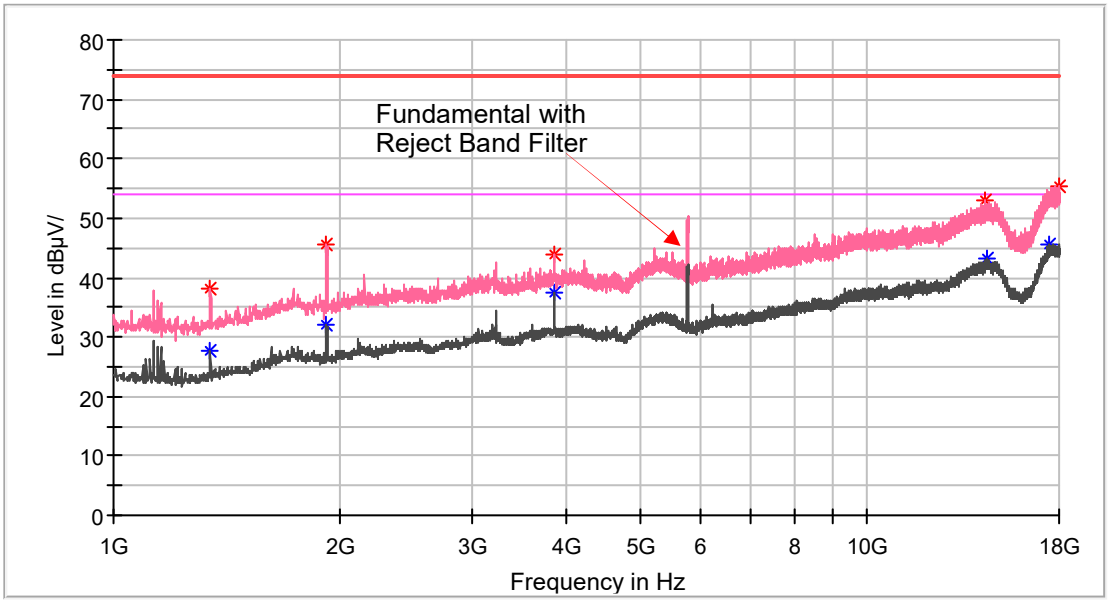
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	27.24	54.00	26.76	150.0	V	340.0	0.9
1343.400000	37.26	---	74.00	36.74	200.0	V	148.0	0.9
1921.400000	---	31.13	54.00	22.87	150.0	V	350.0	5.2
1924.800000	45.28	---	74.00	28.72	150.0	V	359.0	5.3
3828.800000	45.06	---	74.00	28.94	150.0	V	171.0	10.5
3830.500000	---	36.27	54.00	17.73	200.0	V	171.0	10.5
14715.600000	---	43.06	54.00	10.94	150.0	V	296.0	25.4
14737.700000	53.03	---	74.00	20.97	200.0	V	194.0	25.4
17639.600000	---	45.49	54.00	8.51	150.0	V	148.0	29.2
17971.100000	55.72	---	74.00	18.28	150.0	V	113.0	29.2

5785 MHz, Horizontal



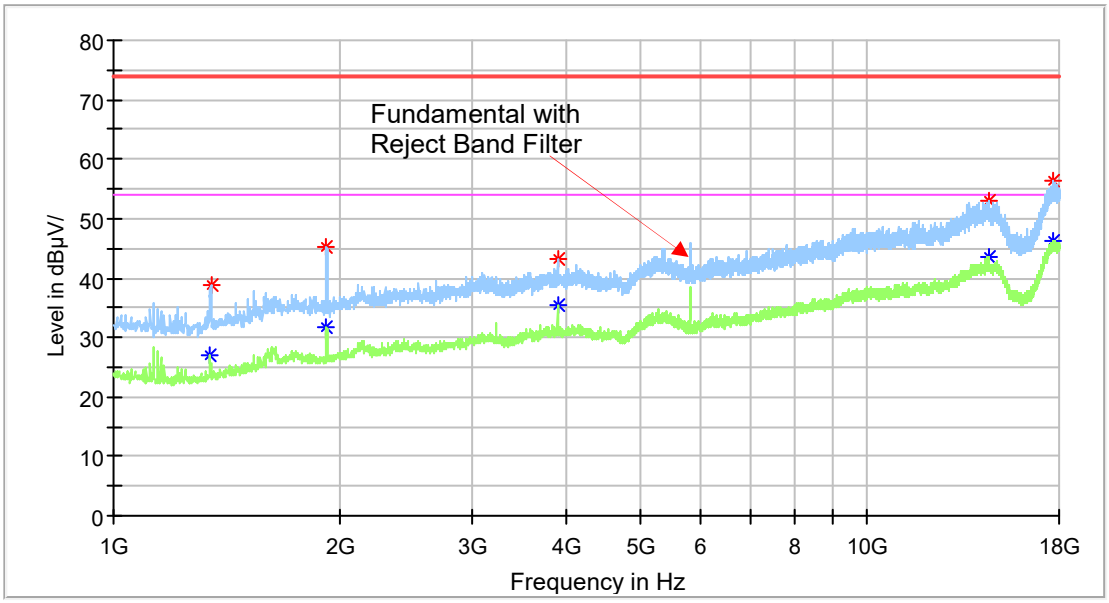
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1340.000000	37.96	---	74.00	36.04	150.0	H	38.0	0.9
1345.100000	---	26.49	54.00	27.51	200.0	H	38.0	0.9
1919.700000	---	30.55	54.00	23.45	150.0	H	126.0	5.2
1923.100000	43.95	---	74.00	30.05	200.0	H	126.0	5.3
3856.000000	43.37	---	74.00	30.63	150.0	H	126.0	10.6
3856.000000	---	35.78	54.00	18.22	150.0	H	126.0	10.6
14334.800000	52.84	---	74.00	21.16	200.0	H	254.0	25.4
14389.200000	---	43.29	54.00	10.71	150.0	H	0.0	25.4
17500.200000	---	46.61	54.00	7.39	150.0	H	220.0	29.2
17906.500000	56.29	---	74.00	17.71	150.0	H	115.0	29.2

5785 MHz, Vertical



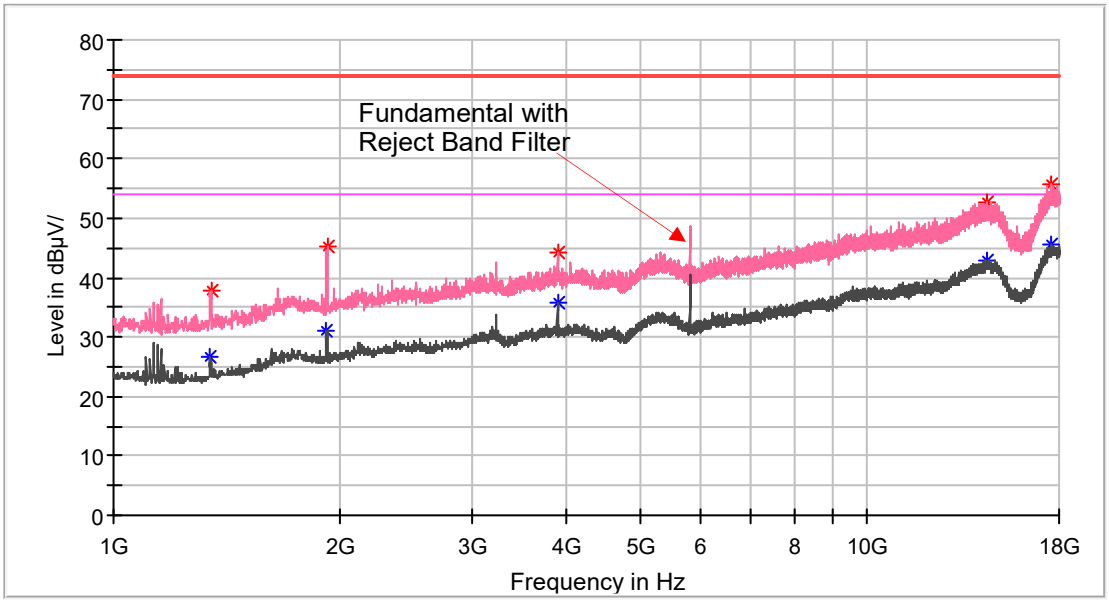
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	27.83	54.00	26.17	150.0	V	342.0	0.9
1345.100000	38.27	---	74.00	35.73	200.0	V	342.0	0.9
1918.000000	---	31.99	54.00	22.01	150.0	V	0.0	5.2
1918.000000	45.44	---	74.00	28.56	150.0	V	0.0	5.2
3856.000000	43.98	---	74.00	30.02	200.0	V	188.0	10.6
3856.000000	---	37.60	54.00	16.40	150.0	V	188.0	10.6
14368.800000	53.03	---	74.00	20.97	150.0	V	288.0	25.4
14465.700000	---	43.33	54.00	10.67	150.0	V	245.0	25.5
17479.800000	---	45.63	54.00	8.37	150.0	V	255.0	29.1
17984.700000	55.27	---	74.00	18.73	150.0	V	0.0	29.2

5825 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.94	54.00	27.06	150.0	H	289.0	0.9
1346.800000	38.85	---	74.00	35.15	150.0	H	278.0	0.9
1919.700000	45.26	---	74.00	28.74	200.0	H	121.0	5.2
1919.700000	---	31.77	54.00	22.23	150.0	H	121.0	5.2
3883.200000	43.36	---	74.00	30.64	150.0	H	144.0	10.6
3883.200000	---	35.43	54.00	18.57	200.0	H	144.0	10.6
14520.100000	---	43.42	54.00	10.58	150.0	H	234.0	25.5
14535.400000	52.90	---	74.00	21.10	150.0	H	322.0	25.5
17687.200000	---	46.24	54.00	7.76	150.0	H	166.0	29.2
17692.300000	56.48	---	74.00	17.52	200.0	H	353.0	29.2

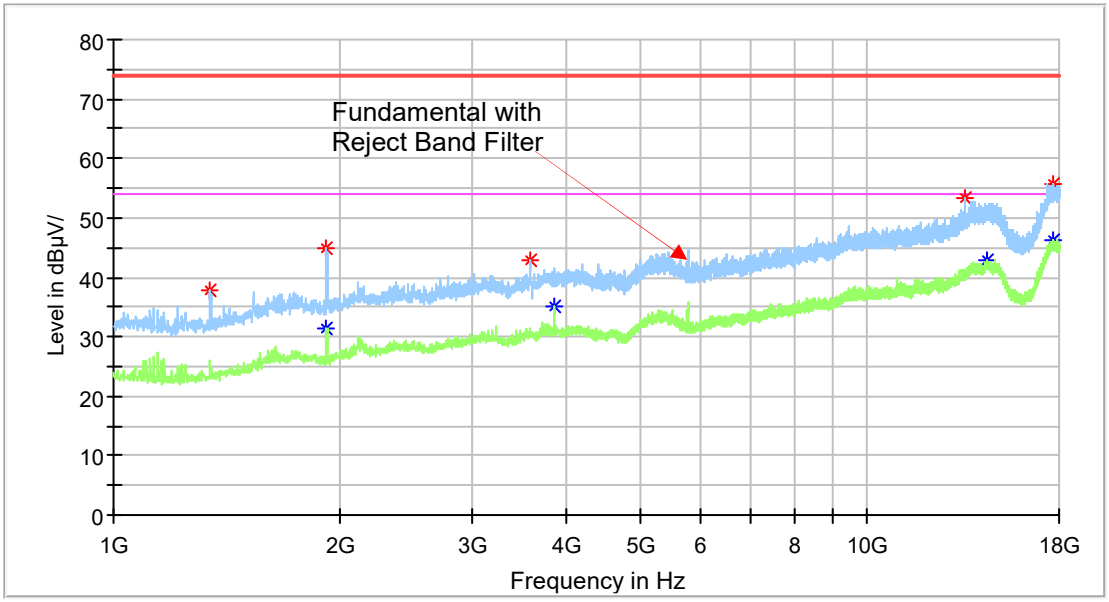
5825 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	26.58	54.00	27.42	200.0	V	313.0	0.9
1346.800000	37.90	---	74.00	36.10	150.0	V	338.0	0.9
1919.700000	---	30.95	54.00	23.05	150.0	V	0.0	5.2
1923.100000	45.27	---	74.00	28.73	150.0	V	0.0	5.3
3883.200000	44.22	---	74.00	29.78	200.0	V	5.0	10.6
3883.200000	---	35.78	54.00	18.22	150.0	V	5.0	10.6
14475.900000	---	43.01	54.00	10.99	150.0	V	44.0	25.5
14481.000000	52.74	---	74.00	21.26	200.0	V	0.0	25.5
17530.800000	55.67	---	74.00	18.33	150.0	V	33.0	29.2
17585.200000	---	45.72	54.00	8.28	200.0	V	290.0	29.2

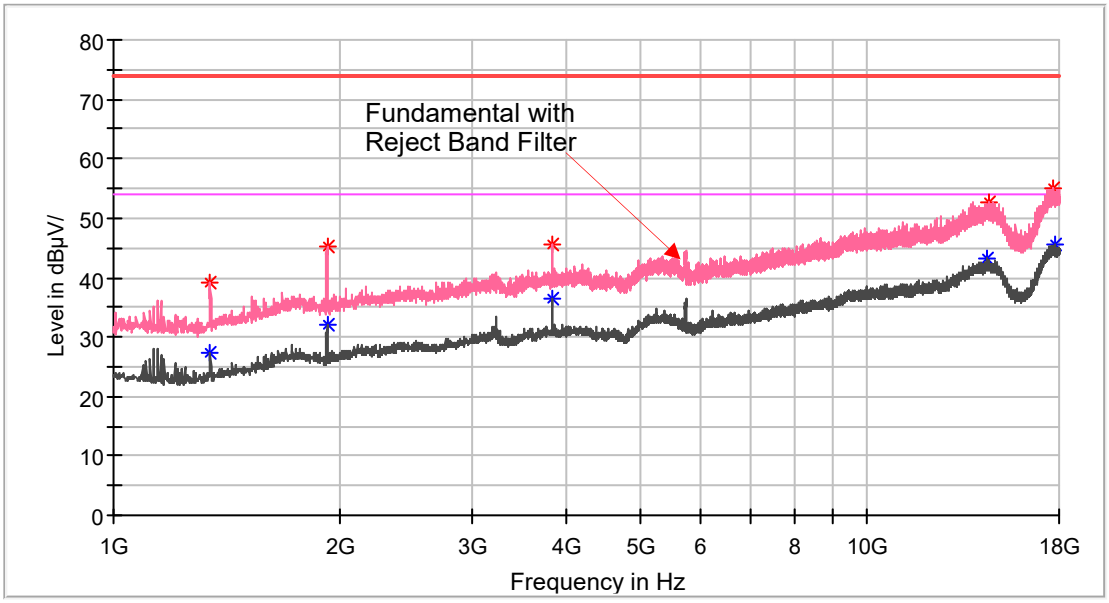
Chain 1

5745 MHz, Horizontal



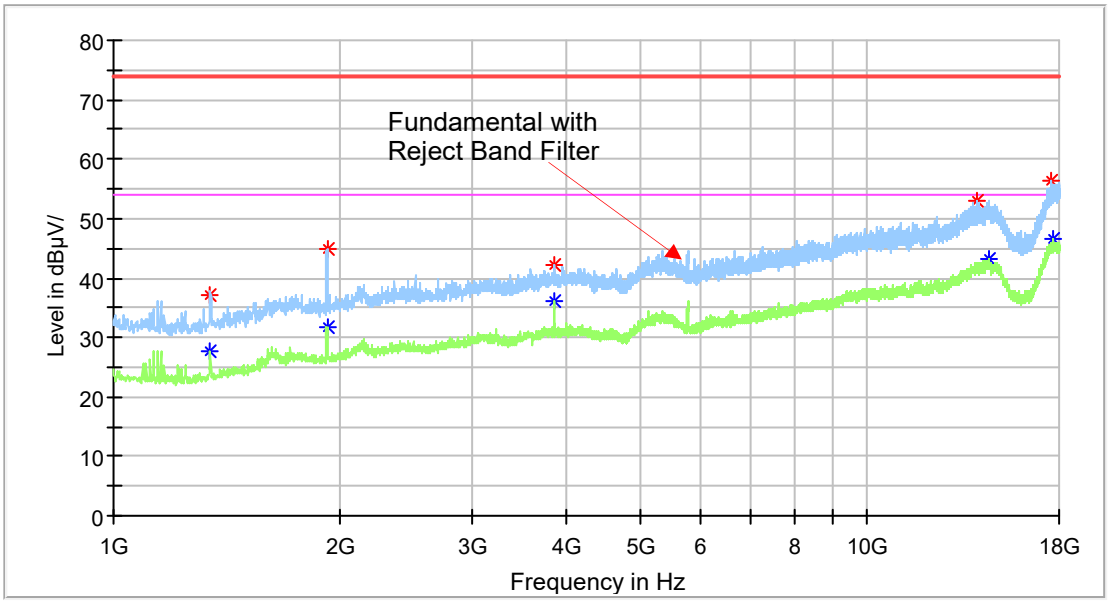
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	37.74	---	74.00	36.26	200.0	H	38.0	0.9
1918.000000	44.76	---	74.00	29.24	150.0	H	60.0	5.2
1918.000000	---	31.24	54.00	22.76	150.0	H	60.0	5.2
3573.800000	42.80	---	74.00	31.20	150.0	H	71.0	9.7
3856.000000	---	35.02	54.00	18.98	200.0	H	127.0	10.6
13537.500000	53.25	---	74.00	20.75	150.0	H	27.0	24.1
14441.900000	---	42.89	54.00	11.11	150.0	H	193.0	25.5
17624.300000	---	46.40	54.00	7.60	150.0	H	0.0	29.2
17653.200000	55.78	---	74.00	18.22	150.0	H	0.0	29.2

5745 MHz, Vertical



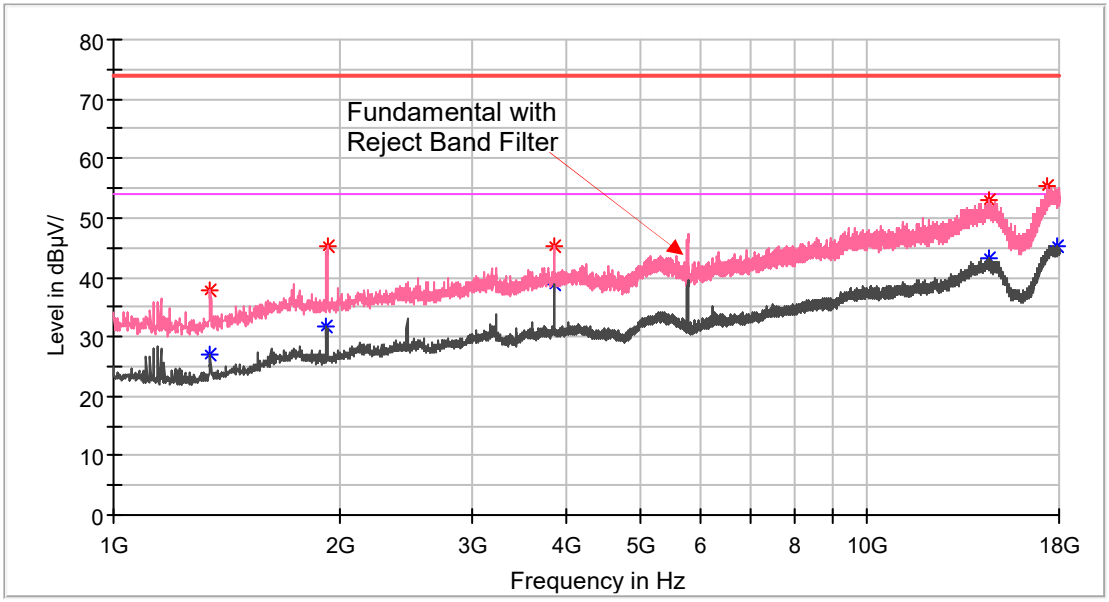
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	---	27.40	54.00	26.60	150.0	V	343.0	0.9
1343.400000	39.10	---	74.00	34.90	200.0	V	343.0	0.9
1921.400000	---	32.00	54.00	22.00	150.0	V	0.0	5.2
1921.400000	45.19	---	74.00	28.81	200.0	V	0.0	5.2
3830.500000	---	36.48	54.00	17.52	150.0	V	162.0	10.5
3830.500000	45.59	---	74.00	28.41	150.0	V	162.0	10.5
14426.600000	---	43.17	54.00	10.83	200.0	V	194.0	25.5
14504.800000	52.76	---	74.00	21.24	150.0	V	0.0	25.5
17707.600000	55.00	---	74.00	19.00	150.0	V	151.0	29.2
17746.700000	---	45.42	54.00	8.58	150.0	V	232.0	29.2

5785 MHz, Horizontal



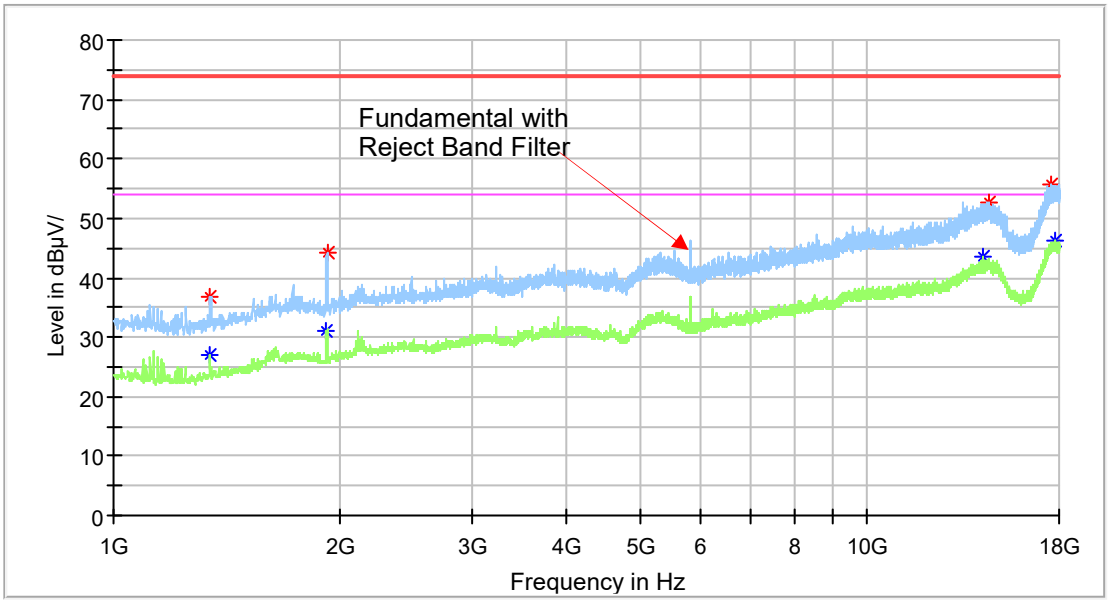
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	37.07	---	74.00	36.93	150.0	H	35.0	0.9
1345.100000	---	27.78	54.00	26.22	200.0	H	278.0	0.9
1921.400000	---	31.65	54.00	22.35	150.0	H	128.0	5.2
1921.400000	44.97	---	74.00	29.03	150.0	H	128.0	5.2
3856.000000	42.14	---	74.00	31.86	200.0	H	139.0	10.6
3856.000000	---	36.19	54.00	17.81	150.0	H	139.0	10.6
14023.700000	53.13	---	74.00	20.87	150.0	H	189.0	25.1
14494.600000	---	43.05	54.00	10.95	200.0	H	189.0	25.5
17549.500000	56.41	---	74.00	17.59	150.0	H	256.0	29.2
17636.200000	---	46.68	54.00	7.32	150.0	H	267.0	29.2

5785 MHz, Vertical



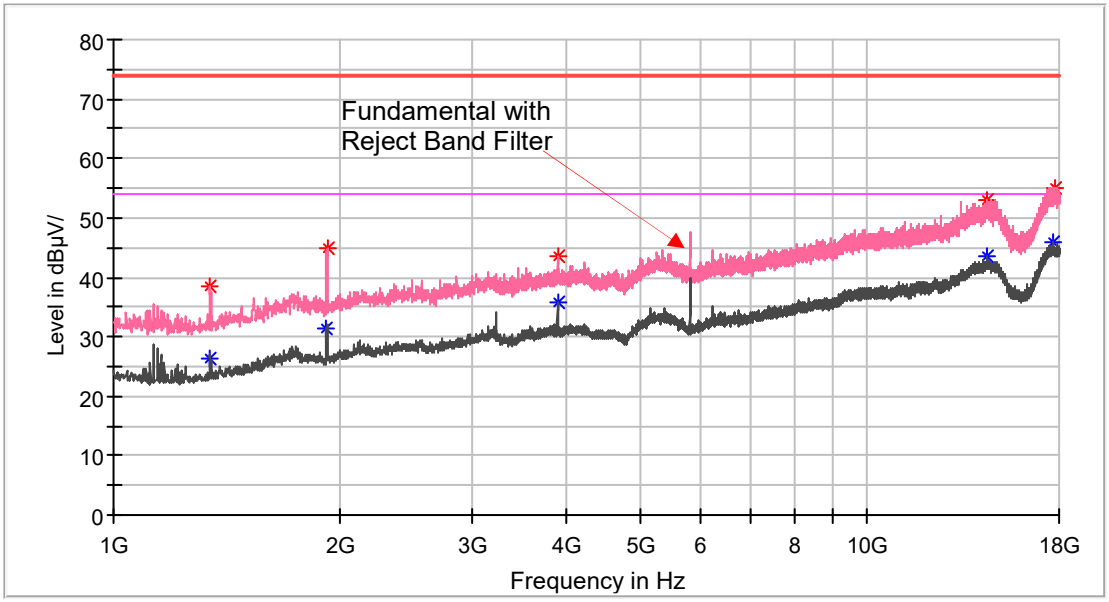
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1921.400000	---	30.82	54.00	23.18	200.0	V	0.0	5.2
1921.400000	43.66	---	74.00	30.34	150.0	V	0.0	5.2
3466.700000	---	34.38	54.00	19.62	200.0	V	194.0	9.3
3835.600000	44.61	---	74.00	29.39	150.0	V	182.0	10.5
14413.000000	---	42.98	54.00	11.02	150.0	V	66.0	25.5
14418.100000	52.80	---	74.00	21.20	150.0	V	101.0	25.5
17513.800000	56.07	---	74.00	17.93	200.0	V	273.0	29.2
17583.500000	---	45.90	54.00	8.10	150.0	V	124.0	29.2

5825 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.98	54.00	27.02	150.0	H	51.0	0.9
1341.700000	36.93	---	74.00	37.07	200.0	H	51.0	0.9
1918.000000	---	31.14	54.00	22.86	150.0	H	129.0	5.2
1921.400000	44.37	---	74.00	29.63	150.0	H	51.0	5.2
14253.200000	---	43.63	54.00	10.37	200.0	H	3.0	25.3
14520.100000	52.82	---	74.00	21.18	150.0	H	184.0	25.5
17580.100000	55.64	---	74.00	18.36	150.0	H	276.0	29.2
17792.600000	---	46.40	54.00	7.60	200.0	H	264.0	29.2

5825 MHz, Vertical

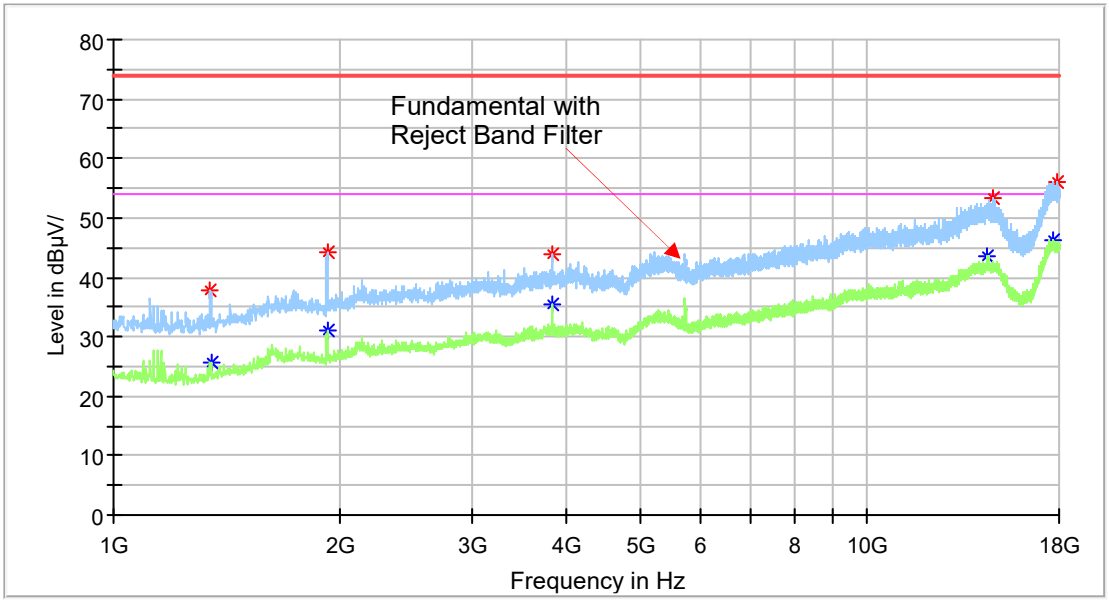


Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	26.24	54.00	27.76	150.0	V	342.0	0.9
1343.400000	38.49	---	74.00	35.51	200.0	V	331.0	0.9
1918.000000	---	31.24	54.00	22.76	150.0	V	0.0	5.2
1921.400000	44.99	---	74.00	29.01	150.0	V	1.0	5.2
3883.200000	---	35.88	54.00	18.12	200.0	V	188.0	10.6
3883.200000	43.50	---	74.00	30.50	150.0	V	188.0	10.6
14418.100000	---	43.54	54.00	10.46	150.0	V	150.0	25.5
14462.300000	53.08	---	74.00	20.92	200.0	V	287.0	25.5
17646.400000	---	45.78	54.00	8.22	150.0	V	254.0	29.2
17809.600000	55.14	---	74.00	18.86	150.0	V	265.0	29.2

For 802.11n-HT20 mode

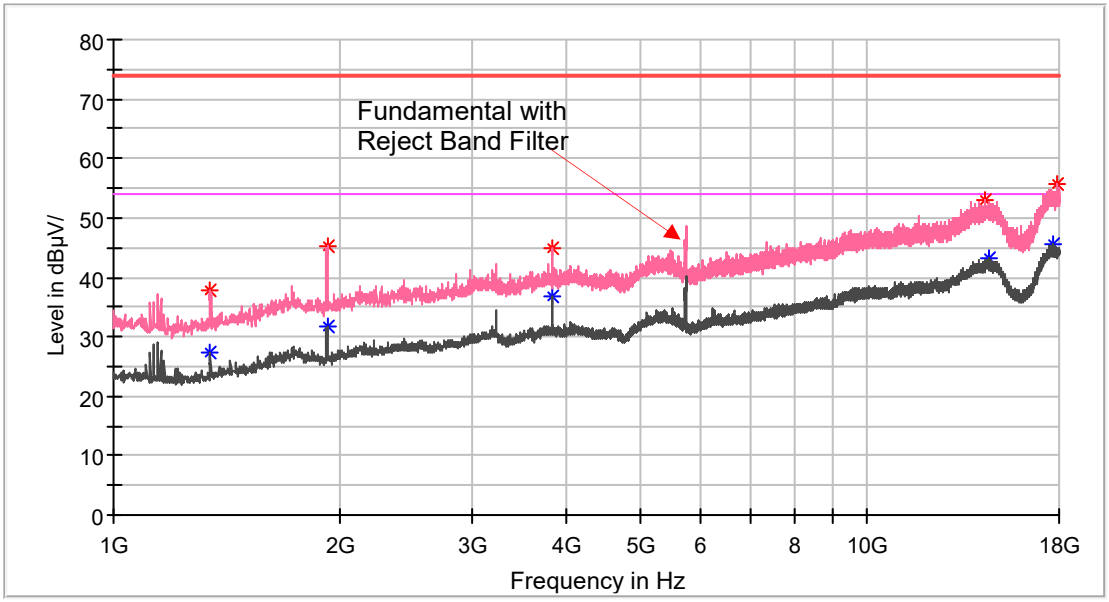
Chain 0 + Chain 1

5745 MHz, Horizontal



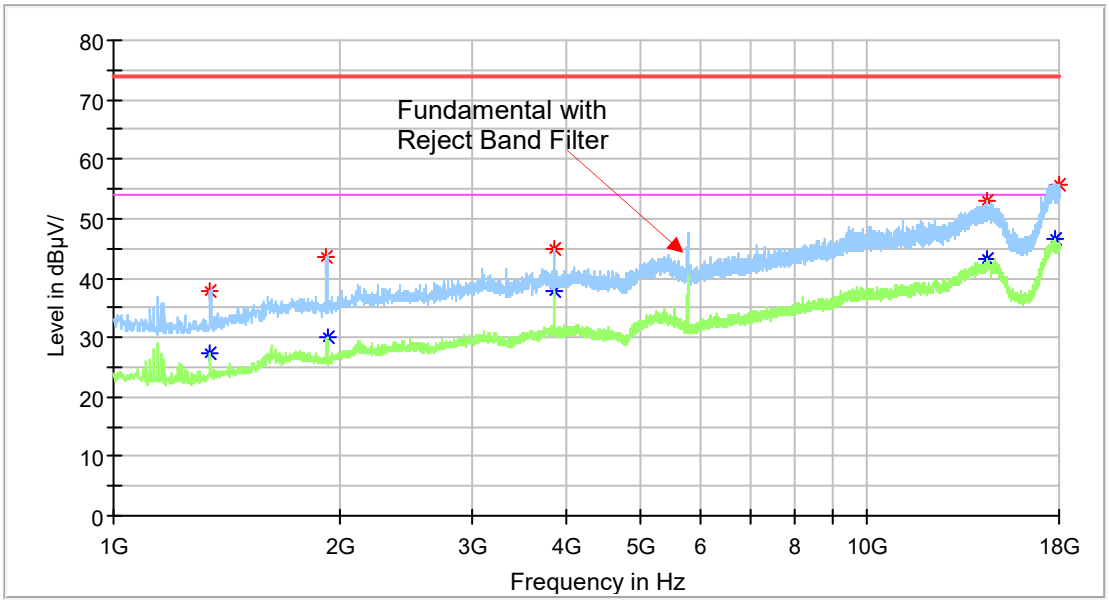
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	37.71	---	74.00	36.29	200.0	H	118.0	0.9
1346.800000	---	25.69	54.00	28.31	150.0	H	36.0	0.9
1921.400000	44.06	---	74.00	29.94	150.0	H	118.0	5.2
1921.400000	---	30.89	54.00	23.11	150.0	H	118.0	5.2
3828.800000	44.02	---	74.00	29.98	200.0	H	129.0	10.5
3830.500000	---	35.58	54.00	18.42	150.0	H	94.0	10.5
14428.300000	---	43.49	54.00	10.51	200.0	H	152.0	25.5
14747.900000	53.28	---	74.00	20.72	150.0	H	0.0	25.4
17722.900000	---	46.28	54.00	7.72	150.0	H	252.0	29.2
17928.600000	56.14	---	74.00	17.86	150.0	H	0.0	29.2

5745 MHz, Vertical



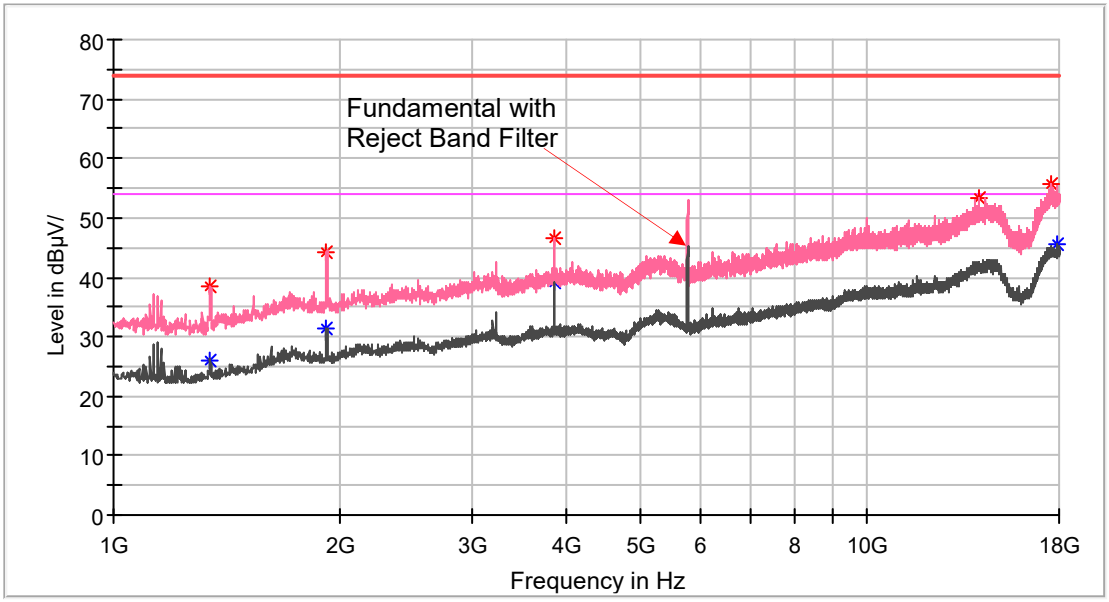
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	27.32	54.00	26.68	150.0	V	337.0	0.9
1345.100000	37.78	---	74.00	36.22	200.0	V	337.0	0.9
1921.400000	---	31.59	54.00	22.41	150.0	V	0.0	5.2
1924.800000	45.30	---	74.00	28.70	150.0	V	350.0	5.3
3830.500000	---	36.96	54.00	17.04	200.0	V	185.0	10.5
3830.500000	45.06	---	74.00	28.94	150.0	V	185.0	10.5
14392.600000	53.03	---	74.00	20.97	150.0	V	0.0	25.4
14498.000000	---	43.10	54.00	10.90	200.0	V	151.0	25.5
17653.200000	---	45.42	54.00	8.58	150.0	V	289.0	29.2
17926.900000	55.53	---	74.00	18.47	150.0	V	0.0	29.2

5785 MHz, Horizontal



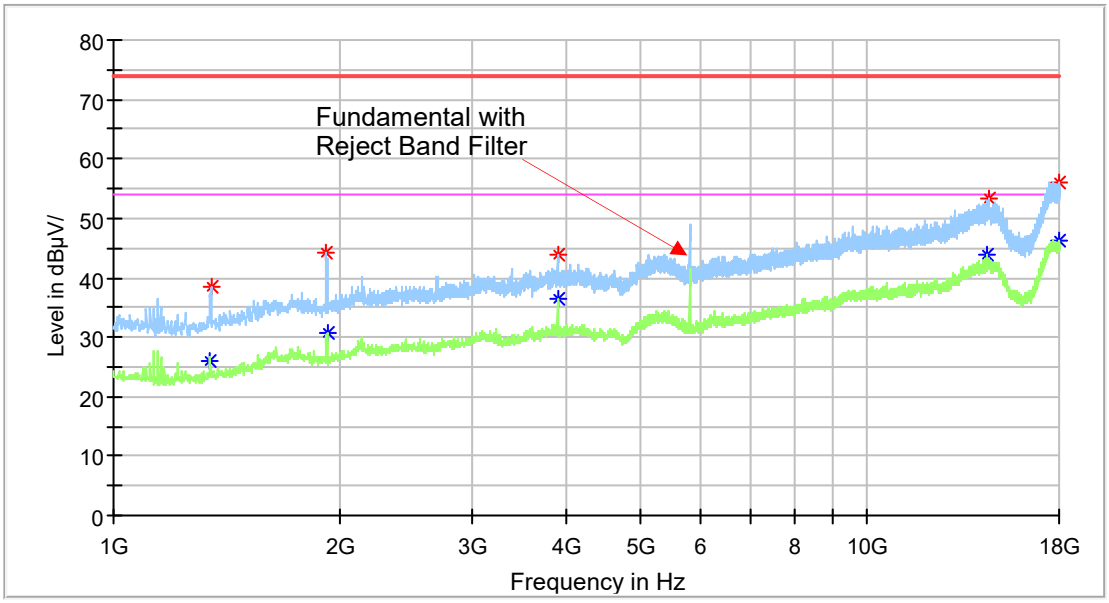
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1343.400000	---	27.28	54.00	26.72	200.0	H	38.0	0.9
1343.400000	37.67	---	74.00	36.33	150.0	H	38.0	0.9
1919.700000	43.43	---	74.00	30.57	150.0	H	59.0	5.2
1921.400000	---	29.95	54.00	24.05	200.0	H	131.0	5.2
3856.000000	---	37.84	54.00	16.16	150.0	H	131.0	10.6
3856.000000	44.85	---	74.00	29.15	150.0	H	131.0	10.6
14441.900000	---	43.21	54.00	10.79	150.0	H	131.0	25.5
14467.400000	52.99	---	74.00	21.01	200.0	H	301.0	25.5
17758.600000	---	46.57	54.00	7.43	150.0	H	186.0	29.2
17986.400000	55.79	---	74.00	18.21	150.0	H	16.0	29.2

5785 MHz, Vertical



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1345.100000	---	25.87	54.00	28.13	150.0	V	342.0	0.9
1345.100000	38.35	---	74.00	35.65	200.0	V	342.0	0.9
1916.300000	44.31	---	74.00	29.69	150.0	V	0.0	5.2
1918.000000	---	31.38	54.00	22.62	200.0	V	351.0	5.2
3856.000000	---	39.21	54.00	14.79	150.0	V	188.0	10.6
3856.000000	46.48	---	74.00	27.52	150.0	V	188.0	10.6
14084.900000	53.43	---	74.00	20.57	150.0	V	342.0	25.1
17532.500000	55.65	---	74.00	18.35	200.0	V	288.0	29.2
17840.200000	---	45.47	54.00	8.53	150.0	V	75.0	29.2

5825 MHz, Horizontal



Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1341.700000	---	25.95	54.00	28.05	150.0	H	35.0	0.9
1346.800000	38.46	---	74.00	35.54	150.0	H	35.0	0.9
1918.000000	44.22	---	74.00	29.78	150.0	H	128.0	5.2
1921.400000	---	30.65	54.00	23.35	200.0	H	128.0	5.2
3883.200000	---	36.51	54.00	17.49	150.0	H	94.0	10.6
3883.200000	43.97	---	74.00	30.03	150.0	H	94.0	10.6
14455.500000	---	43.78	54.00	10.22	200.0	H	128.0	25.5
14491.200000	53.44	---	74.00	20.56	150.0	H	228.0	25.5
17957.500000	56.01	---	74.00	17.99	150.0	H	105.0	29.2
17984.700000	---	46.38	54.00	7.62	200.0	H	327.0	29.2