

FCC RADIO TEST REPORT

FCC ID: 2AQ86-HOVRFIELDHUB1

Product: Handheld

Trade Mark: HorusVision

Model No.: FieldHub1_0

Family Model: N/A

Report No.: N25120104818E

Issue Date: Apr. 16, 2026

Prepared for

HVRT Corp.

336 Hazen Lane Orofino, ID 83544 USA

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name : HVRT Corp.

Address : 336 Hazen Lane Orofino, ID 83544 USA

Manufacturer's Name : SHENZHEN SWELL Technology Co., Ltd.Address : 8F Bld. A, Zhihui Innovation Center, Hang Cheng Industrial Zone,
Shenzhen, China**Product description**

Product name : Handheld

Trade Mark : HorusVision

Model and/or type reference : FieldHub1_0

Family Model : N/A

Test Sample Number : S2512020194-1#

Standards : FCC Part15.407Test procedure ANSI C63.10-2020+Cor 1-2023
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests Dec. 01, 2025 ~ Apr. 14, 2026

Date of Issue Apr. 16, 2026

Test Result **Pass**Prepared By : Kieron Luo
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(Manager)

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Revision History

Report No.	Version	Description	Issued Date
N25120104818E	Rev.01	Initial issue of report	Apr. 16, 2026

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	Automatically discontinue transmission	PASS	(Note 2)

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier:CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted, PSD	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	Occupied bandwidth	$\pm 4.7\%$
5	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
6	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
7	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
8	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
9	Temperature	$\pm 0.5^\circ\text{C}$
10	Humidity	$\pm 2\%$
11	Radio Frequency	$\pm 0.2\text{ppm}$
12	Occupied bandwidth	$\pm 4.7\%$
13	Time	$\pm 2.5\%$

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Handheld		
Trade Mark	HorusVision		
Model Name	FieldHub1_0		
Family Model	N/A		
Model Difference	N/A		
FCC ID	2AQ86-HOVRFIELDHUB1		
Product Description	Mode Supported	☒ 802.11a/n/ac (20MHz channel bandwidth) ☒ 802.11n/ac (40MHz channel bandwidth) ☒ 802.11ac (80MHz channel bandwidth)	
	Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n (20MHz): MCS0-15, up to 144Mbps 802.11n (40MHz): MCS0-15, up to 300Mbps 802.11ac (20MHz): MCS0-8, up to 173.4Mbps 802.11ac (40MHz): MCS0-9, up to 400Mbps 802.11ac (80MHz): MCS0-9, up to 866.6Mbps	
	Modulation	802.11a:OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11n:OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac:OFDM (QPSK/BPSK/16QAM/64QAM/ 256QAM)	
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-3: 5725 MHz ~5850 MHz	
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client	
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection	
	Support TPC	☐ YES ☒ NO	
	Antenna Type	FPC antenna	
	Antenna Gain	1.74 dBi	
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.		
Adapter	N/A		
Battery	DC 3.85V, 5000mAh, 19.25Wh		
Power supply	DC 3.85V from battery or DC 5V from adapter		
HW Version	N/A		
SW Version	N/A		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

1.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac CH36/ CH40/CH48/CH52/CH56/CH64 CH149/CH157/CH165
Mode 3	802.11n40/ac CH38/CH46/CH54/CH62 /CH151/CH159
Mode 4	802.11ac CH42/CH58/CH106/CH122/CH155

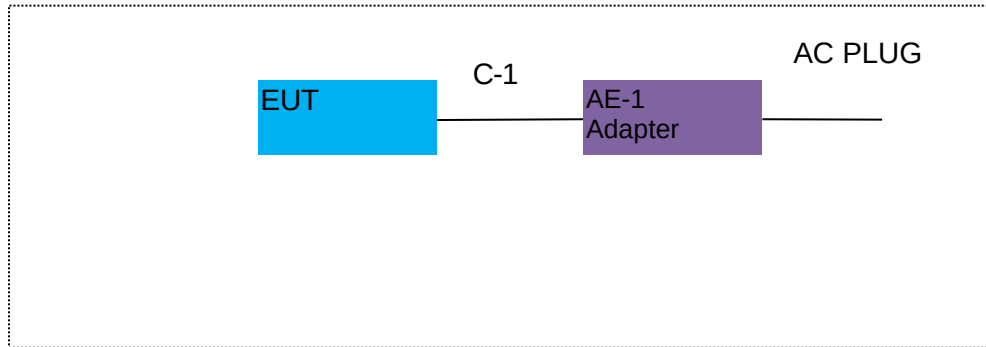
For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac CH36/ CH40/CH48/CH52/CH56/CH64 CH149/CH157/CH165
Mode 3	802.11n40/ac CH38/CH46/CH54/CH62 /CH151/CH159
Mode 4	802.11ac CH42/CH58/CH106/CH122/CH155

Note:

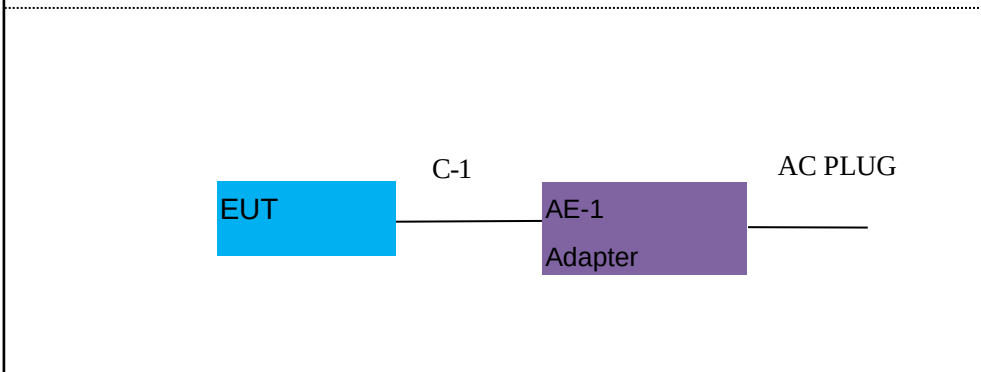
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

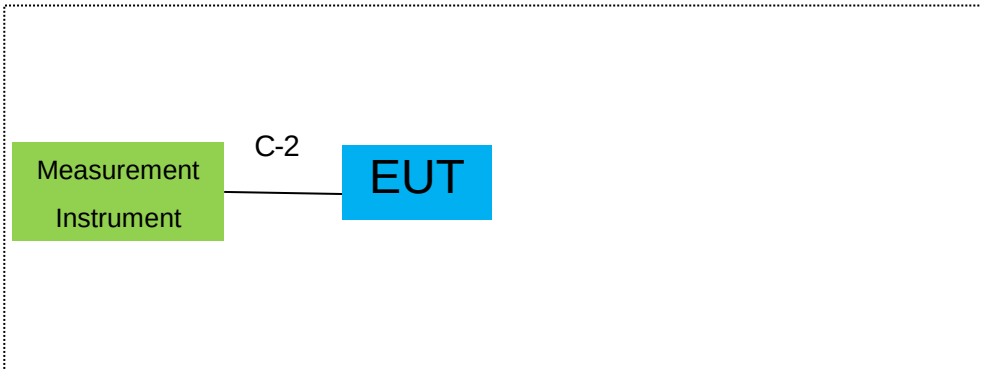
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1. The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

1.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Manufacturer	Model/Type No.	Series No.	Note
AE-1	Adapter	ShenZhon HuaYi Teng Technology Co.,LTD	HYT-0502000	N/A	

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Type-C Cable	YES	NO	0.8m
C-2	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) During the battery power test, the battery is fully charged.

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2025.04.17	2026.04.16	1 year
Turn Table	EM	SC100_1	60531	N/A	N/A	N/A
Antnna Mast	EM	SC100	N/A	N/A	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2024.05.12	2027.05.11	3 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2023.06.17	2026.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2023.06.17	2026.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2025.04.17	2026.04.16	1 year
Spectrum Analyzer	Agilent	E4440A	MY41000130	2025.04.17	2026.04.16	1 year
Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
Attenuator	Weinschel	33-10-33	AR4010	2024.04.25	2027.04.24	3 year
Attenuator	Weinschel	24-20-34	BP4485	2024.04.25	2027.04.24	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2025.04.17	2026.04.16	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2024.04.26	2027.04.25	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2024.04.26	2027.04.25	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2024.04.26	2027.04.25	3 year
Attenuator	Agilent	8495B	MY42147029	2024.04.26	2027.04.25	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2025.04.17	2026.04.16	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2025.04.17	2026.04.16	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2025.05.06	2026.05.05	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2025.04.17	2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2025.04.17	2026.04.16	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.17	2026.04.16	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	raditeq	RadiMation	2023.1.3	RadiatedTest

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

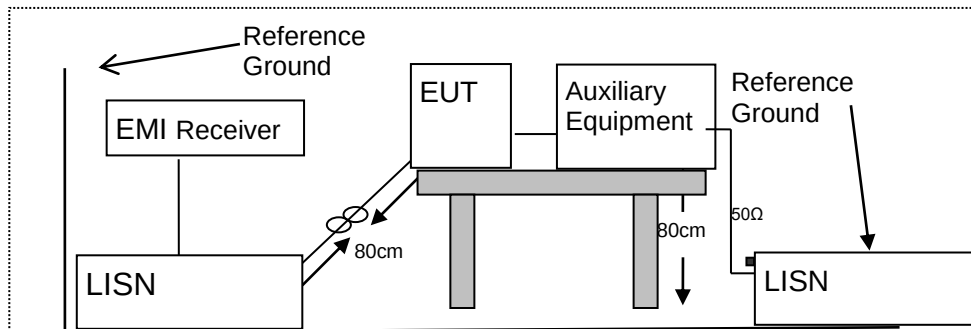
According to FCC Part 15.207(a)

2.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

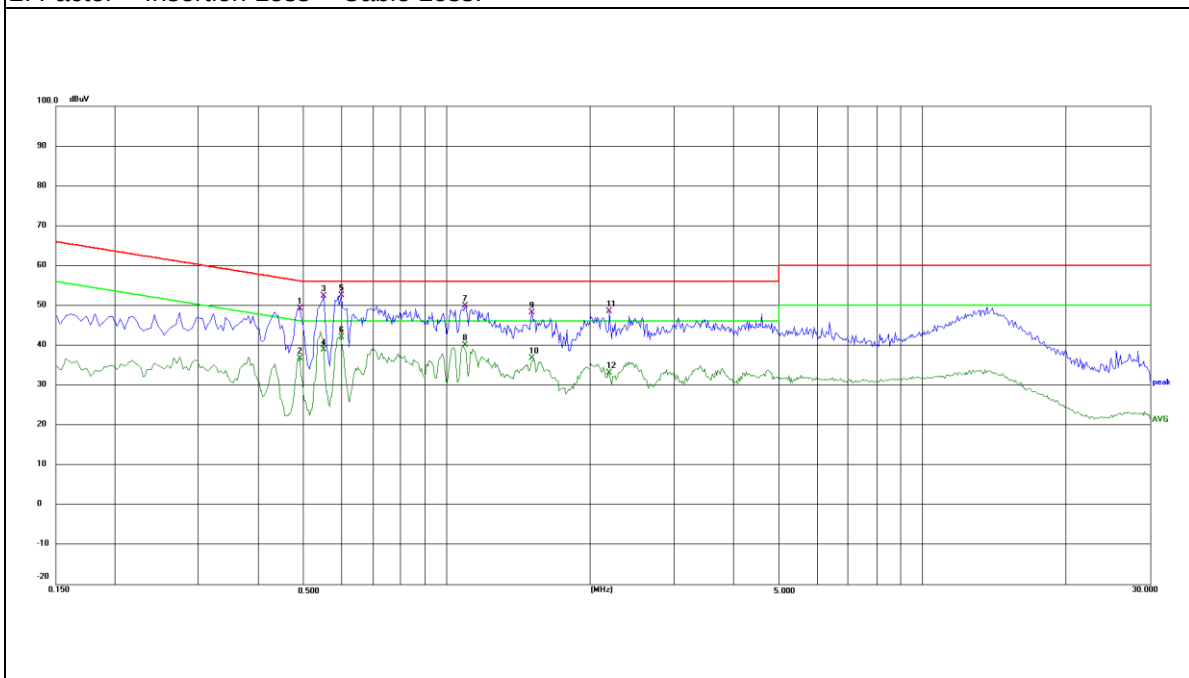
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	24.7℃	Relative Humidity :	50.1%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 7(5G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.4900	29.70	19.52	49.22	56.17	-6.95	QP
0.4900	17.18	19.52	36.70	46.17	-9.47	AVG
0.5500	32.88	19.53	52.41	56.00	-3.59	QP
0.5500	19.47	19.53	39.00	46.00	-7.00	AVG
0.5980	32.94	19.53	52.47	56.00	-3.53	QP
0.5980	22.52	19.53	42.05	46.00	-3.95	AVG
1.0900	30.23	19.58	49.81	56.00	-6.19	QP
1.0900	20.58	19.58	40.16	46.00	-5.84	AVG
1.5100	28.62	19.61	48.23	56.00	-7.77	QP
1.5100	17.22	19.61	36.83	46.00	-9.17	AVG
2.1900	28.89	19.66	48.55	56.00	-7.45	QP
2.1900	13.50	19.66	33.16	46.00	-12.84	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

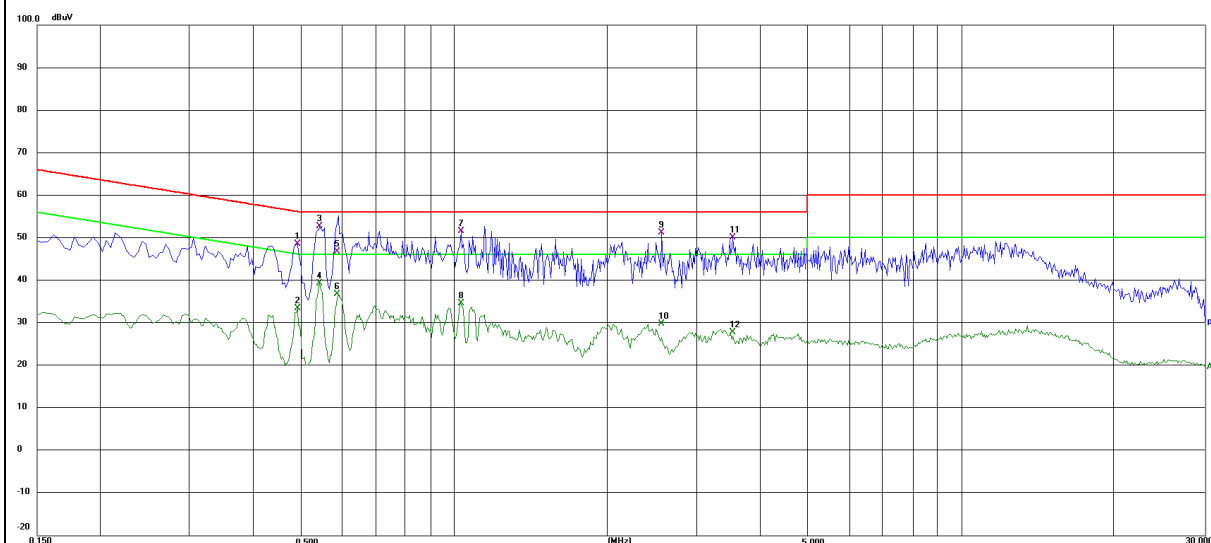


EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	24.7°C	Relative Humidity :	50.1%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 7(5G WIFI)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.4900	29.76	18.82	48.58	56.17	-7.59	QP
0.4900	14.55	18.82	33.37	46.17	-12.80	AVG
0.5420	33.88	18.81	52.69	56.00	-3.31	QP
0.5420	20.36	18.81	39.17	46.00	-6.83	AVG
0.5899	27.99	18.81	46.80	56.00	-9.20	QP
0.5899	17.98	18.81	36.79	46.00	-9.21	AVG
1.0300	32.62	18.85	51.47	56.00	-4.53	QP
1.0300	15.82	18.85	34.67	46.00	-11.33	AVG
2.5620	32.28	18.95	51.23	56.00	-4.77	QP
2.5620	10.85	18.95	29.80	46.00	-16.20	AVG
3.5380	30.98	19.02	50.00	56.00	-6.00	QP
3.5380	8.75	19.02	27.77	46.00	-18.23	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209&15.205

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407 (b) (9) (10) : 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)).

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

Undesirable emission limits. Except as shown in paragraph (b)(1)(2)(3)(4) 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:

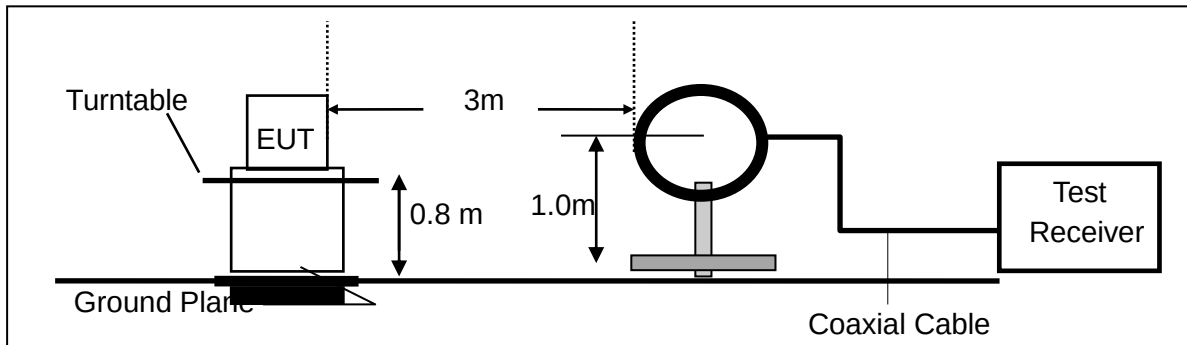
(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the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

2.2.3 MEASURING INSTRUMENTS

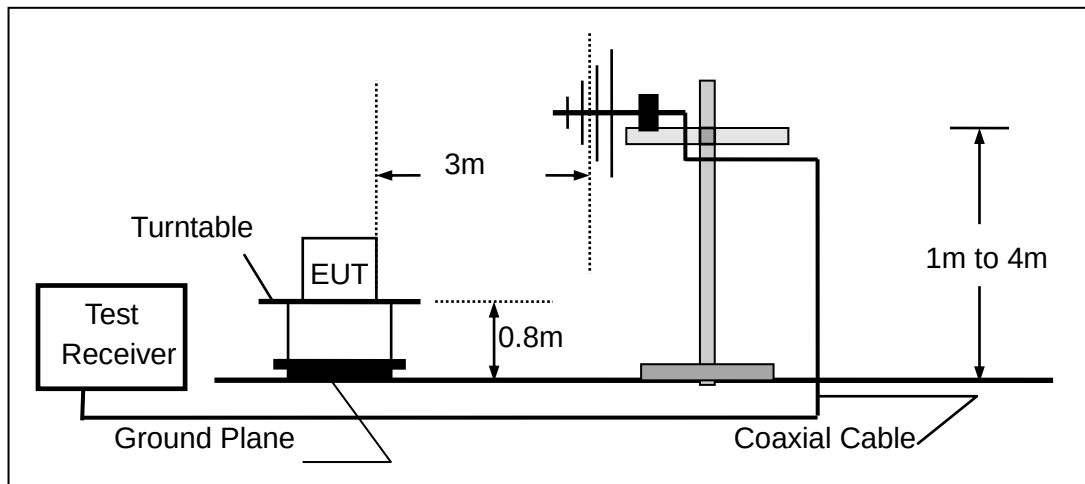
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

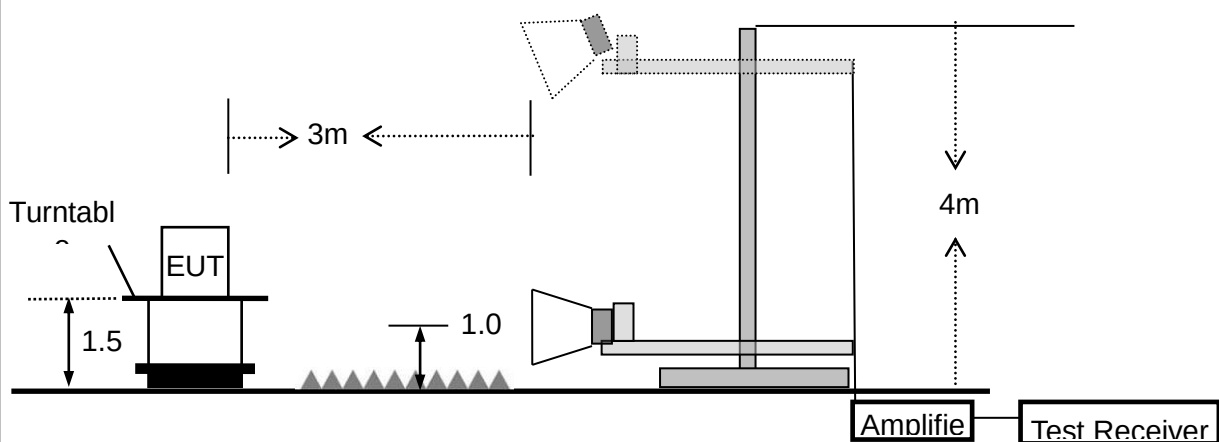
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



2.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor 1-2023. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor 1-2023 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure:	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

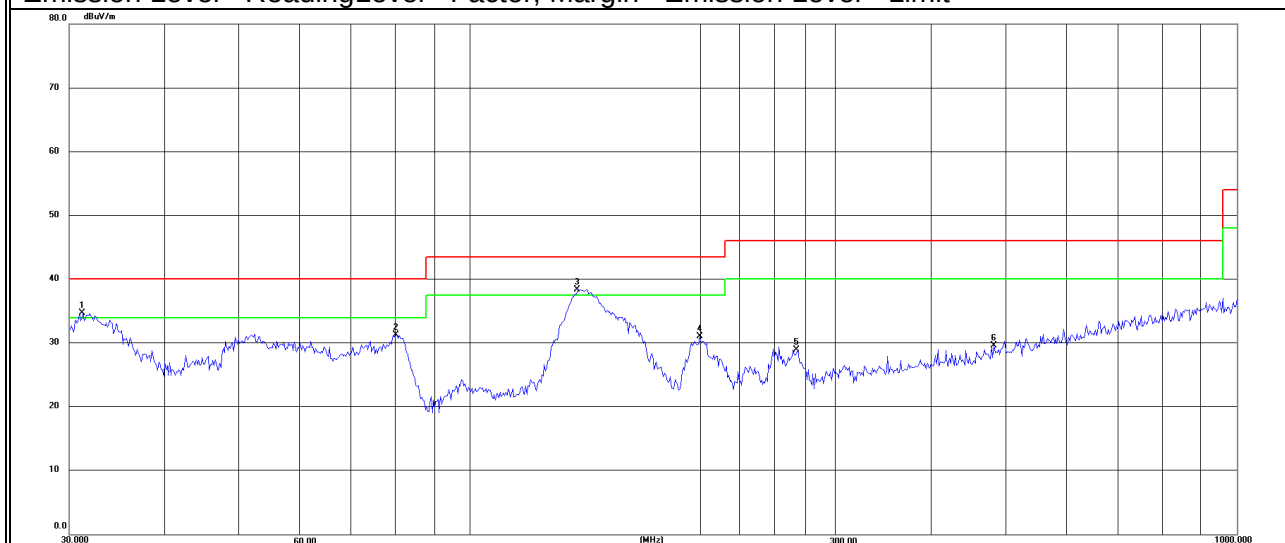
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25.7 °C	Relative Humidity :	53%
Pressure :	1010hPa	Test Mode :	802.11a-5180MHz (5G WIFI)
Test Voltage :	DC 5V from Adapter AC 120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	31.2890	17.77	16.95	34.72	40.00	-5.28	peak
V	80.0810	17.15	14.15	31.30	40.00	-8.70	peak
V	138.3870	23.62	14.75	38.37	43.50	-5.13	peak
V	199.2860	13.23	17.85	31.08	43.50	-12.42	peak
V	267.5450	9.10	19.87	28.97	46.00	-17.03	peak
V	482.2160	5.54	24.09	29.63	46.00	-16.37	peak

Remark:

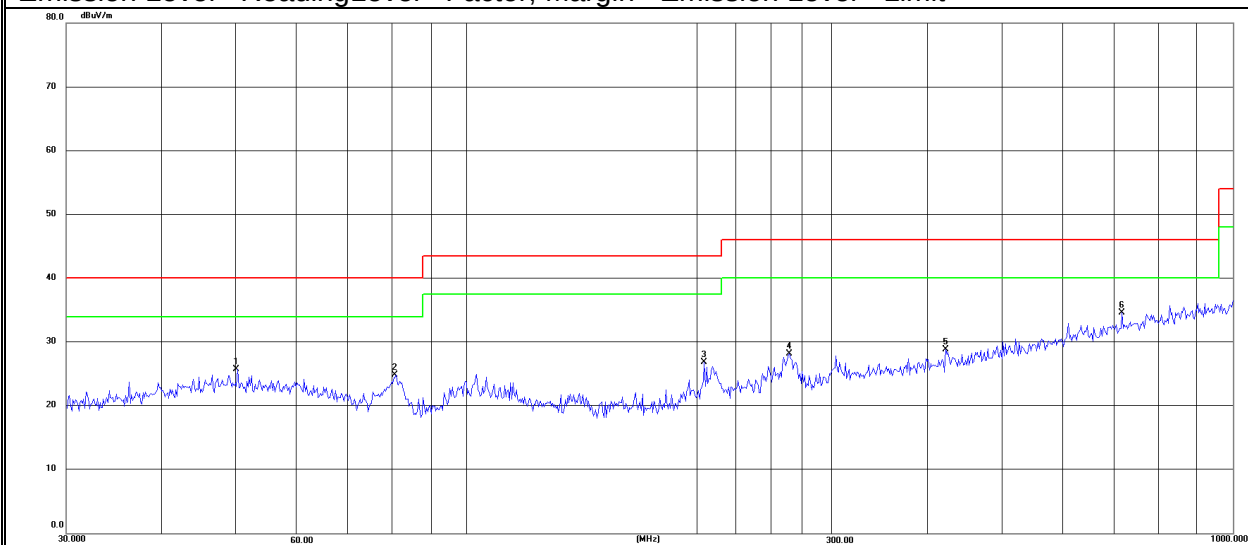
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	50.2320	5.95	19.81	25.76	40.00	-14.24	peak
H	80.9270	10.77	14.08	24.85	40.00	-15.15	peak
H	204.2380	8.83	18.06	26.89	43.50	-16.61	peak
H	263.8190	8.38	19.84	28.22	46.00	-17.78	peak
H	422.0580	5.73	23.14	28.87	46.00	-17.13	peak
H	716.6820	6.54	28.04	34.58	46.00	-11.42	peak

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



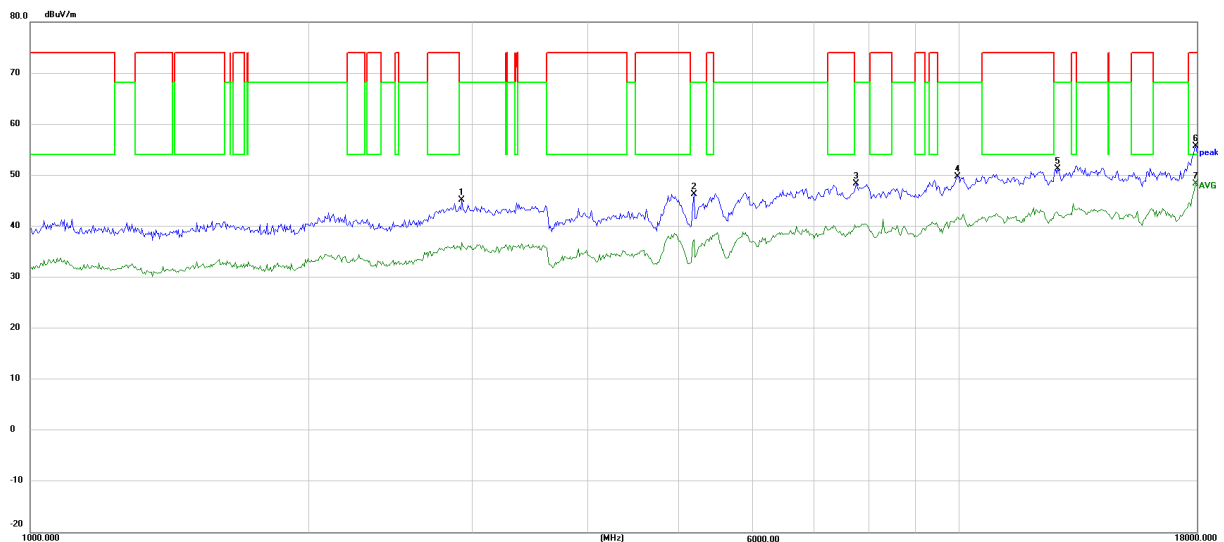
Note: All modes have been tested, just the worst mode has been recorded in the report.

2.2.8 TEST RESULTS (1GHz-18GHz)

EUT:	Handheld	Model No.:	FieldHub1_0
Temperature:	25 °C	Relative Humidity :	47.4%
Test Mode:	TX(5.2G) - 802.11a	Test By:	Kieron Luo

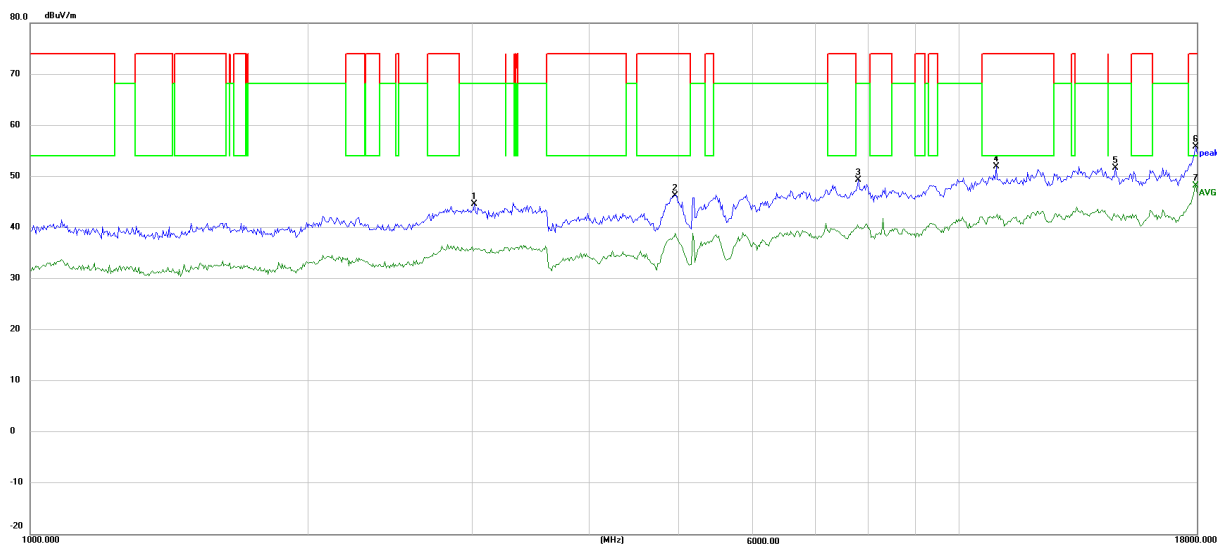
Low Channel (5180 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2921.425	55.15	-10.03	45.12	68.20	-23.08	peak
2	5179.450	52.42	-6.19	46.23	68.20	-21.97	peak
3	7757.925	50.11	-1.73	48.38	68.20	-19.82	peak
4	9966.225	48.64	1.04	49.68	68.20	-18.52	peak
5	12778.450	47.08	4.23	51.31	68.20	-16.89	peak
6	17963.450	42.23	13.44	55.67	74.00	-18.33	peak
7	17963.450	34.95	13.44	48.39	54.00	-5.61	AVG



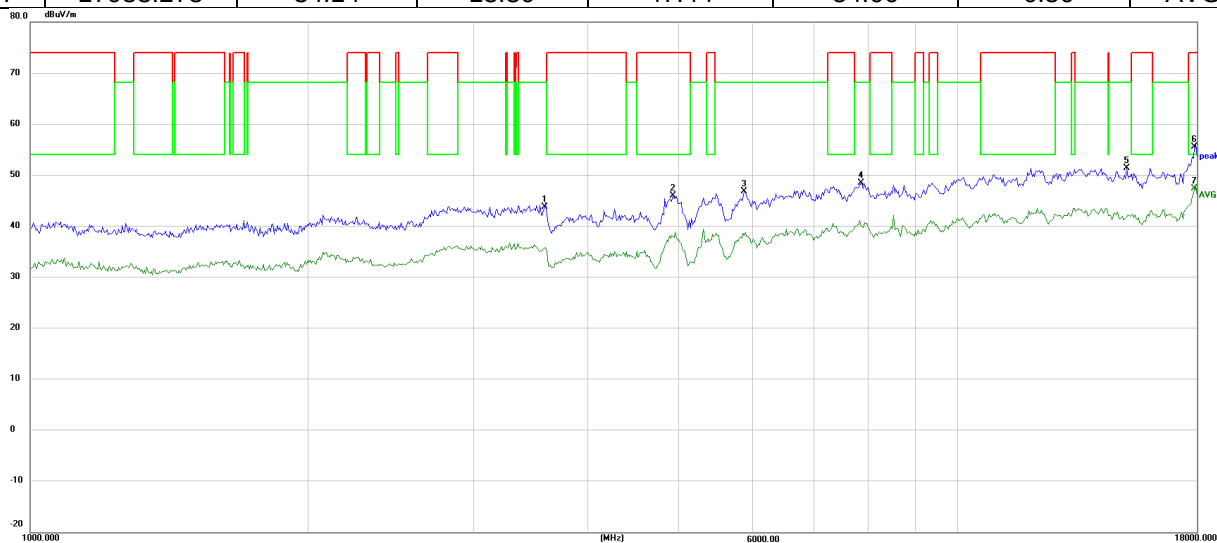
Low Channel (5180 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3009.400	54.14	-9.50	44.64	68.20	-23.56	peak
2	4947.400	52.37	-6.07	46.30	74.00	-27.70	peak
3	7802.125	50.85	-1.48	49.37	68.20	-18.83	peak
4	10960.300	48.25	3.70	51.95	74.00	-22.05	peak
5	14729.200	46.52	5.20	51.72	68.20	-16.48	peak
6	17956.225	42.45	13.41	55.86	74.00	-18.14	peak
7	17956.225	34.83	13.41	48.24	54.00	-5.76	AVG



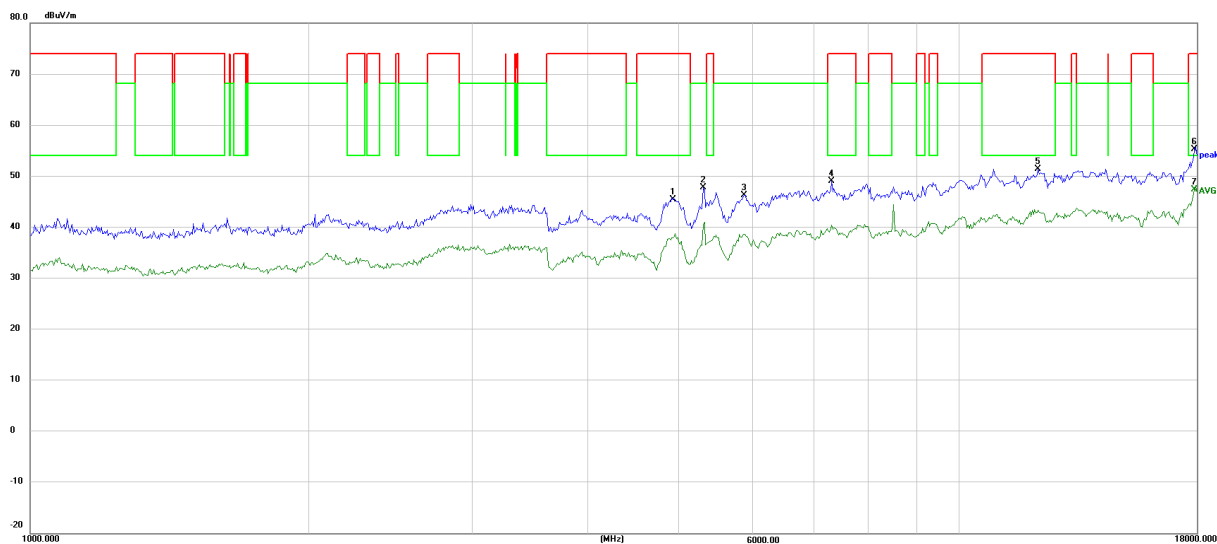
Middle Channel (5200 MHz) -Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3584.850	53.21	-9.36	43.85	68.20	-24.35	peak
2	4923.600	52.75	-6.77	45.98	74.00	-28.02	peak
3	5868.800	51.86	-5.07	46.79	68.20	-21.41	peak
4	7834.850	50.39	-1.92	48.47	68.20	-19.73	peak
5	15140.175	45.56	5.80	51.36	68.20	-16.84	peak
6	17933.275	42.29	13.30	55.59	74.00	-18.41	peak
7	17933.275	34.14	13.30	47.44	54.00	-6.56	AVG



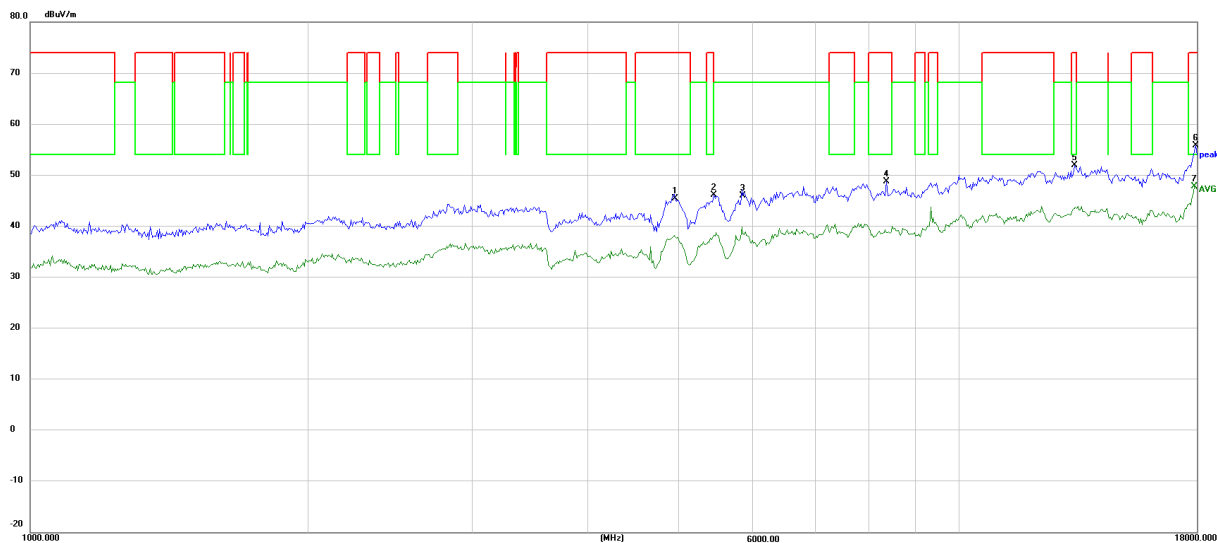
Middle Channel (5200 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4926.150	52.14	-6.70	45.44	74.00	-28.56	peak
2	5315.450	54.68	-6.87	47.81	68.20	-20.39	peak
3	5864.550	51.34	-5.09	46.25	68.20	-21.95	peak
4	7303.175	51.26	-2.28	48.98	74.00	-25.02	peak
5	12152.000	46.81	4.62	51.43	74.00	-22.57	peak
6	17937.100	41.97	13.31	55.28	74.00	-18.72	peak
7	17937.100	34.09	13.31	47.40	54.00	-6.60	AVG



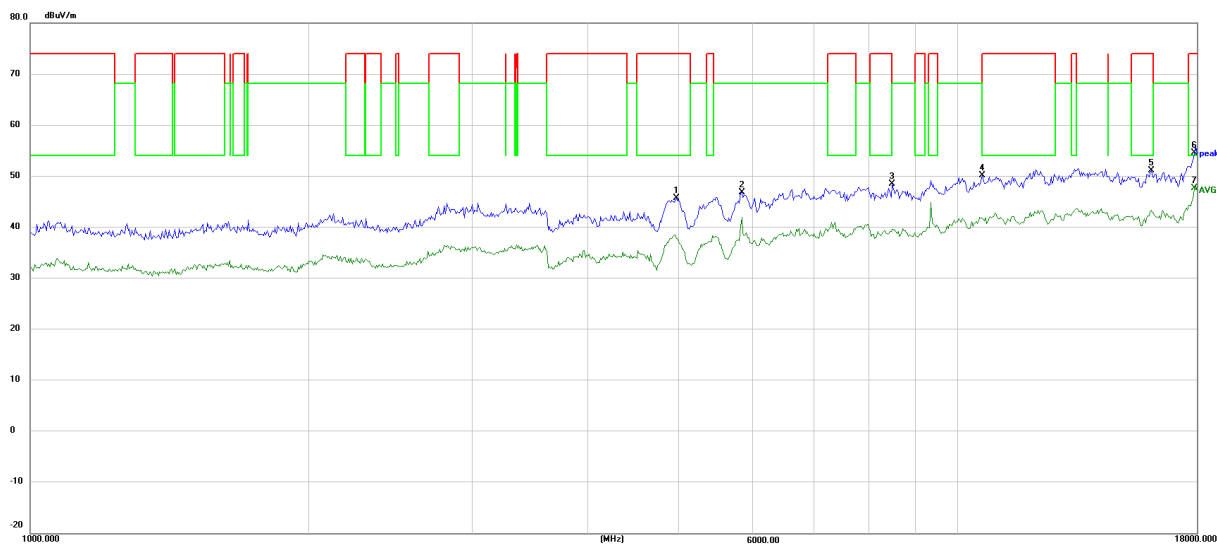
High Channel (5240 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4951.225	51.41	-6.01	45.40	74.00	-28.60	peak
2	5441.250	52.38	-6.18	46.20	74.00	-27.80	peak
3	5862.000	51.06	-5.11	45.95	68.20	-22.25	peak
4	8357.175	50.48	-1.72	48.76	74.00	-25.24	peak
5	13293.550	46.78	5.22	52.00	74.00	-22.00	peak
6	17955.375	42.36	13.41	55.77	74.00	-18.23	peak
7 *	17937.950	34.44	13.31	47.75	54.00	-6.25	AVG



High Channel (5240 MHz)-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4970.775	51.88	-6.17	45.71	74.00	-28.29	peak
2	5831.400	52.06	-5.21	46.85	68.20	-21.35	peak
3	8487.225	49.31	-0.81	48.50	74.00	-25.50	peak
4	10578.225	47.58	2.58	50.16	68.20	-18.04	peak
5	16117.250	45.18	6.01	51.19	74.00	-22.81	peak
6	17939.650	41.27	13.33	54.60	74.00	-19.40	peak
7	17939.650	34.39	13.33	47.72	54.00	-6.28	AVG

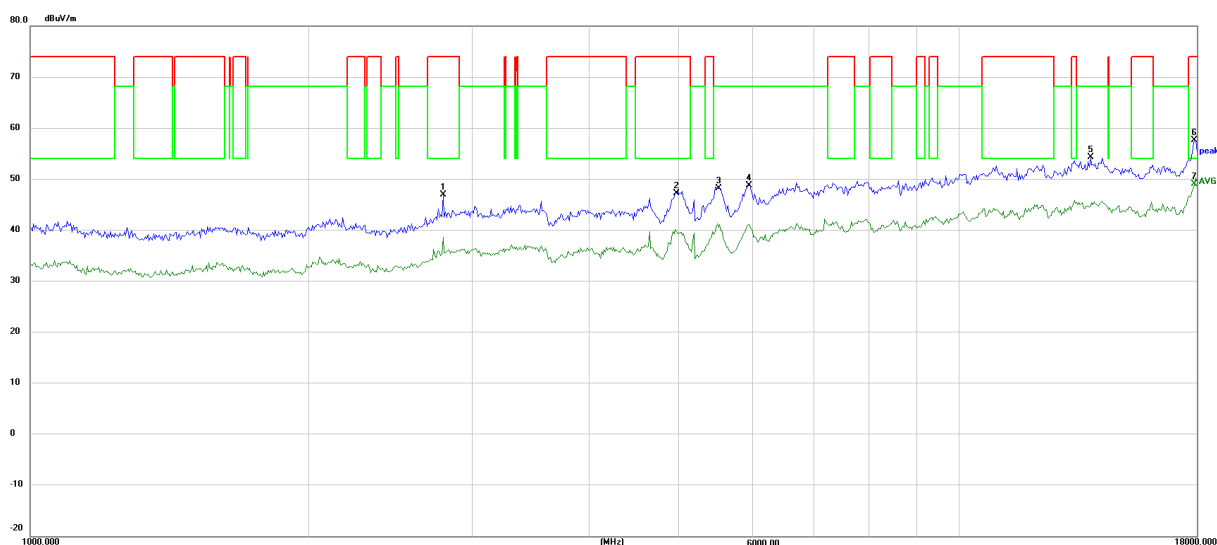


Note: "802.11a" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Factor= Antenna Factor + Cable Loss - Preamp Factor
Level=Reading value+Factor

EUT:	Handheld	Model No.:	FieldHub1_0
Temperature:	25.2 °C	Relative Humidity :	51%
Test Mode:	TX(5.3) - 802.11a	Test By:	Kieron Luo

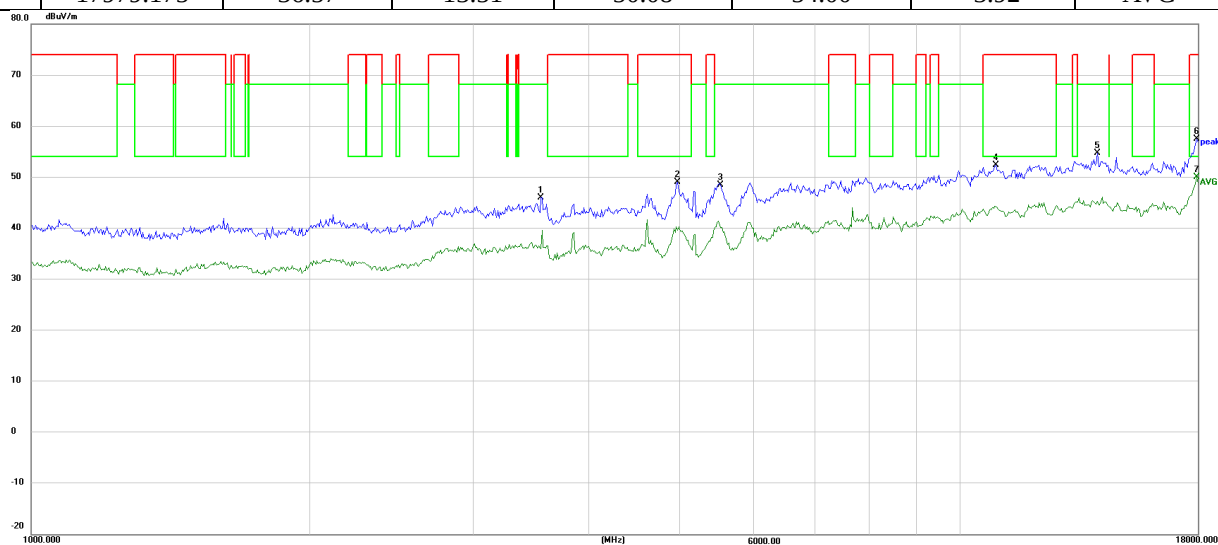
Low Channel (5260 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	2788.400	57.49	-10.52	46.97	74.00	-27.03	peak
2	4965.250	53.42	-6.12	47.30	74.00	-26.70	peak
3	5503.300	53.52	-5.32	48.20	68.20	-20.00	peak
4	5947.850	53.11	-4.39	48.72	68.20	-19.48	peak
5	13840.950	49.23	5.11	54.34	68.20	-13.86	peak
6	17933.275	44.30	13.30	57.60	74.00	-16.40	peak
7	17933.275	35.78	13.30	49.08	54.00	-4.92	AVG



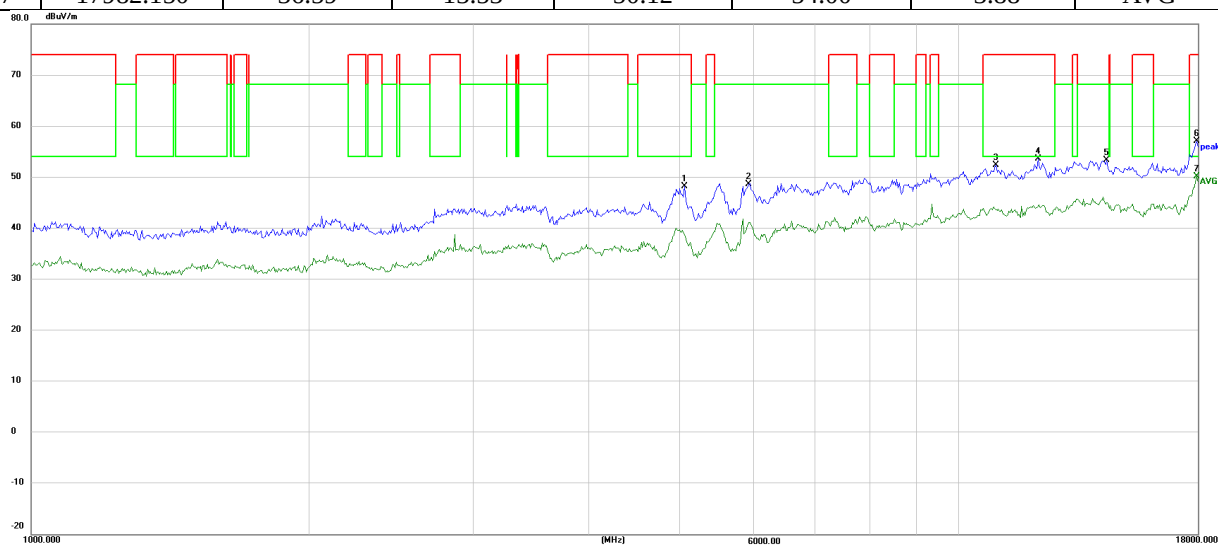
Low Channel (5260 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3540.650	56.00	-10.00	46.00	68.20	-22.20	peak
2	4967.375	55.13	-6.14	48.99	74.00	-25.01	peak
3	5530.075	53.97	-5.53	48.44	68.20	-19.76	peak
4	10925.875	48.56	3.75	52.31	74.00	-21.69	peak
5	14049.200	49.30	5.39	54.69	68.20	-13.51	peak
6	17979.175	43.96	13.51	57.47	74.00	-16.53	peak
7 *	17979.175	36.57	13.51	50.08	54.00	-3.92	AVG



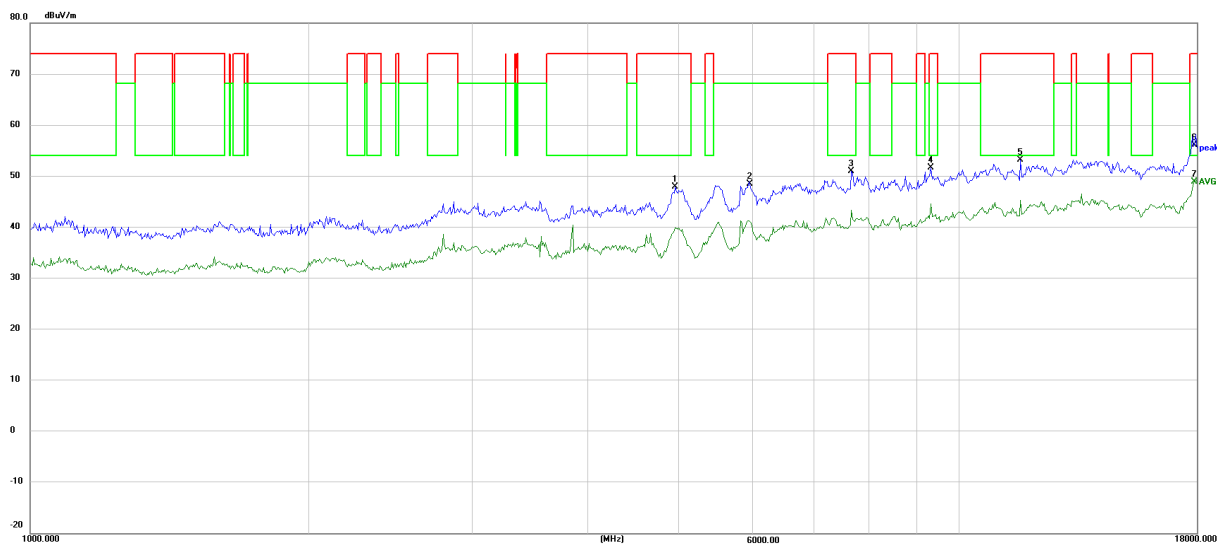
Middle Channel (5280 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5051.950	54.05	-5.85	48.20	74.00	-25.80	peak
2	5921.500	53.32	-4.65	48.67	68.20	-19.53	peak
3	10933.950	48.55	3.75	52.30	74.00	-21.70	peak
4	12120.975	48.90	4.73	53.63	74.00	-20.37	peak
5	14391.750	47.83	5.55	53.38	68.20	-14.82	peak
6	17982.150	43.50	13.53	57.03	74.00	-16.97	peak
7	17982.150	36.59	13.53	50.12	54.00	-3.88	AVG



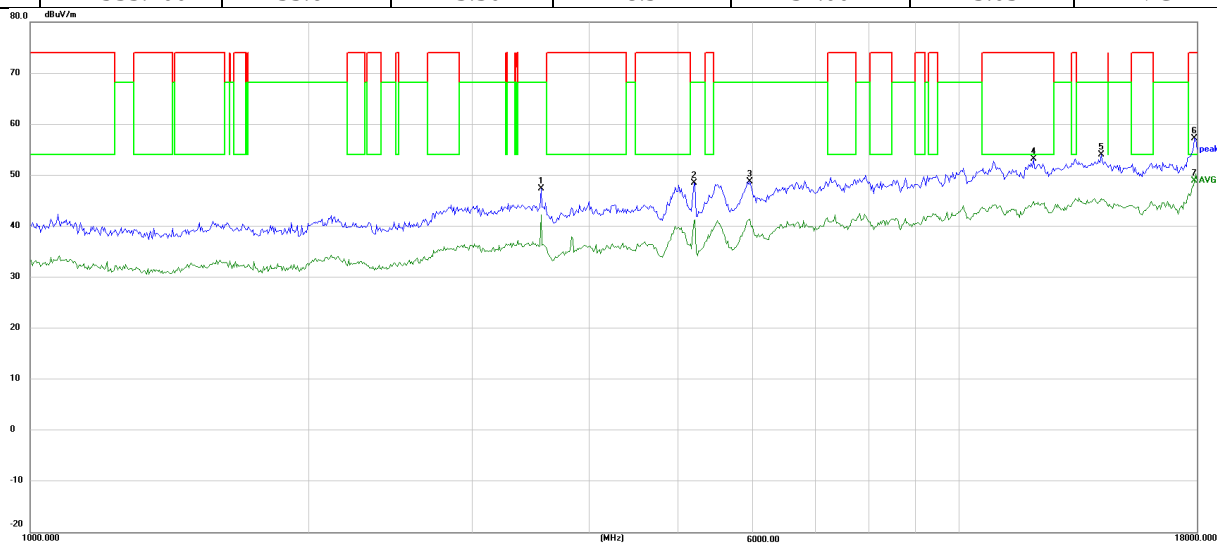
Middle Channel (5280 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4947.400	54.00	-6.07	47.93	74.00	-26.07	peak
2	5953.800	52.96	-4.46	48.50	68.20	-19.70	peak
3	7669.525	53.04	-2.03	51.01	74.00	-22.99	peak
4	9320.225	51.47	0.16	51.63	74.00	-22.37	peak
5	11651.775	50.48	2.75	53.23	74.00	-20.77	peak
6	17935.400	42.78	13.31	56.09	74.00	-17.91	peak
7 *	17935.400	35.58	13.31	48.89	54.00	-5.11	AVG



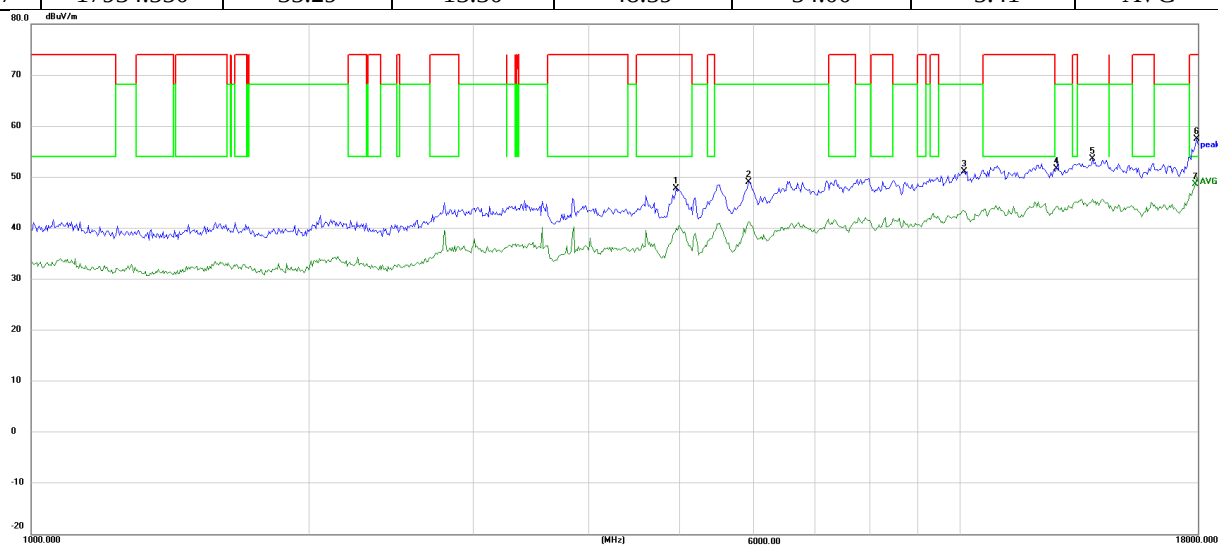
High Channel (5320 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3549.150	57.49	-10.09	47.40	68.20	-20.80	peak
2	5187.525	54.82	-6.28	48.54	68.20	-19.66	peak
3	5949.975	53.11	-4.37	48.74	68.20	-19.46	peak
4	12025.350	48.02	5.15	53.17	74.00	-20.83	peak
5	14217.075	48.26	5.71	53.97	68.20	-14.23	peak
6	17933.700	43.94	13.30	57.24	74.00	-16.76	peak
7 *	17933.700	35.67	13.30	48.97	54.00	-5.03	AVG



High Channel (5320 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4946.125	53.90	-6.11	47.79	74.00	-26.21	peak
2	5927.450	53.67	-4.60	49.07	68.20	-19.13	peak
3	10098.400	49.03	2.16	51.19	68.20	-17.01	peak
4	12715.550	47.41	4.29	51.70	68.20	-16.50	peak
5	13888.550	48.29	5.26	53.55	68.20	-14.65	peak
6	17981.725	43.98	13.52	57.50	74.00	-16.50	peak
7	17934.550	35.29	13.30	48.59	54.00	-5.41	AVG

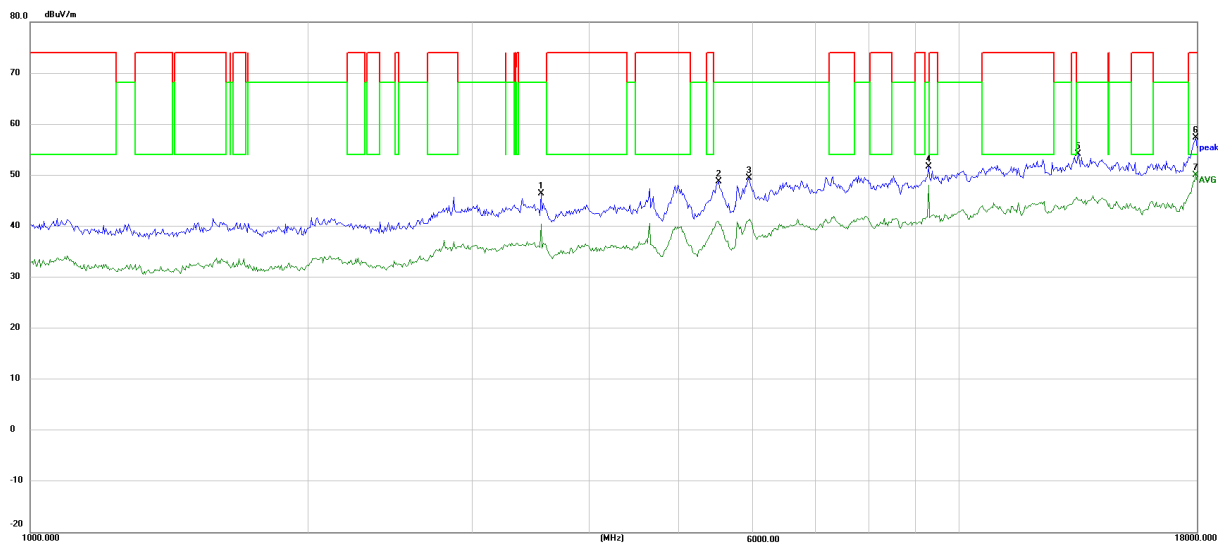


Note: "802.11a" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
 The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
 Emission level (dBuV/m) = 20 log Emission level (uV/m).
 Factor= Antenna Factor + Cable Loss - Preamp Factor
 Level=Reading value+Factor

EUT :	Handheld	Model Name. :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.8G) -- 802.11a		

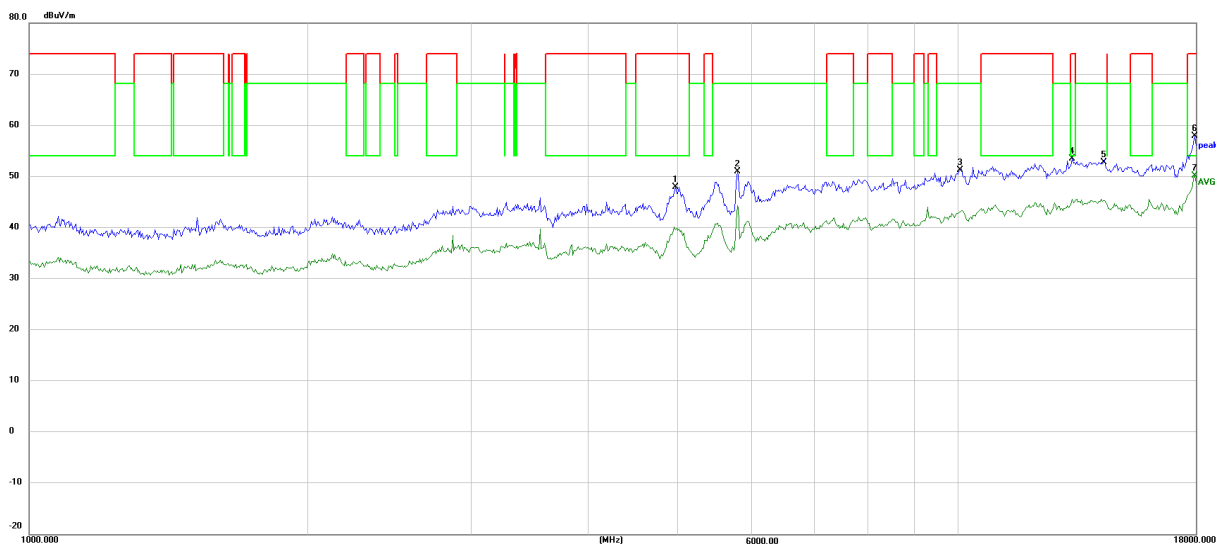
Low Channel (5745 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3549.575	56.57	-10.10	46.47	68.20	-21.73	peak
2	5505.425	54.08	-5.33	48.75	68.20	-19.45	peak
3	5935.100	54.03	-4.52	49.51	68.20	-18.69	peak
4	9272.200	51.42	0.29	51.71	68.20	-16.49	peak
5	13435.925	48.90	5.23	54.13	68.20	-14.07	peak
6	17997.025	43.76	13.60	57.36	74.00	-16.64	peak
7	17997.025	36.36	13.60	49.96	54.00	-4.04	AVG



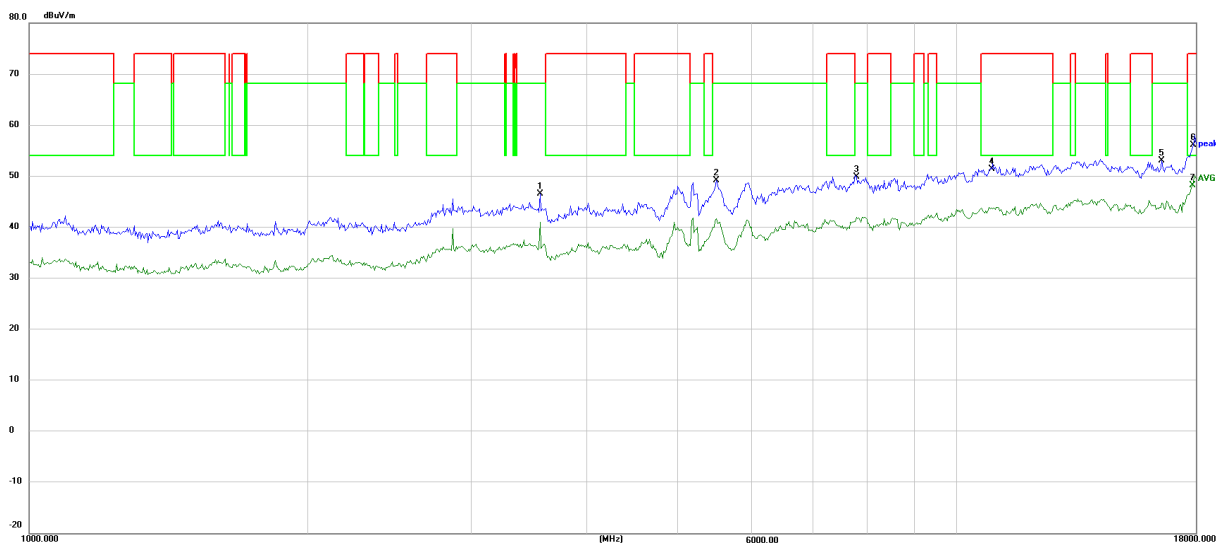
Low Channel (5745 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	4966.525	54.11	-6.13	47.98	74.00	-26.02	peak
2	5793.575	56.21	-5.28	50.93	68.20	-17.27	peak
3	10055.050	49.53	1.71	51.24	68.20	-16.96	peak
4	13276.975	48.38	5.10	53.48	74.00	-20.52	peak
5	14346.275	47.09	5.67	52.76	68.20	-15.44	peak
6	17978.750	44.40	13.51	57.91	74.00	-16.09	peak
7	17978.750	36.58	13.51	50.09	54.00	-3.91	AVG



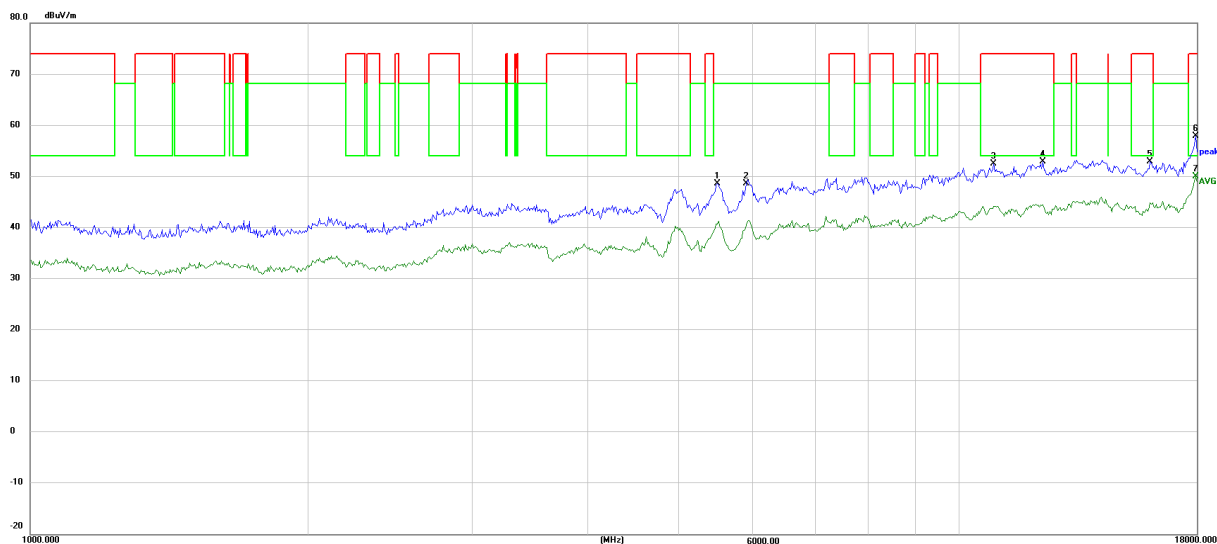
Middle Channel (5785 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3549.150	56.66	-10.09	46.57	68.20	-21.63	peak
2	5493.950	54.57	-5.39	49.18	68.20	-19.02	peak
3	7771.950	51.45	-1.64	49.81	68.20	-18.39	peak
4	10865.100	47.80	3.61	51.41	74.00	-22.59	peak
5	16588.150	46.56	6.51	53.07	68.20	-15.13	peak
6	17929.875	42.80	13.28	56.08	74.00	-17.92	peak
7 *	17892.900	35.17	13.00	48.17	54.00	-5.83	AVG



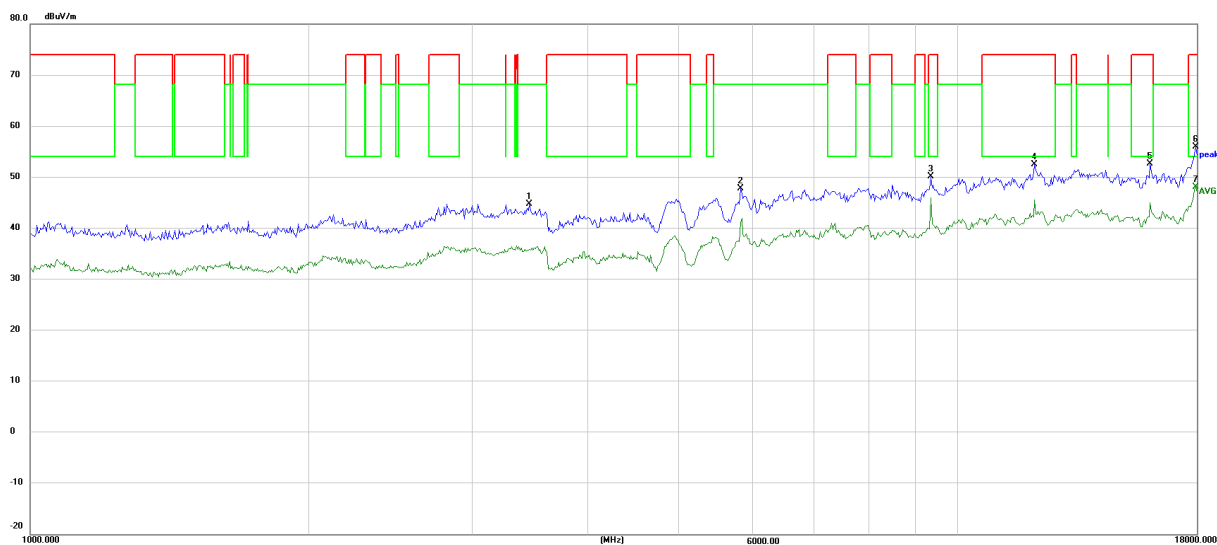
Middle Channel (5785 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	5491.400	54.06	-5.43	48.63	68.20	-19.57	peak
2	5908.750	53.47	-4.78	48.69	68.20	-19.51	peak
3	10908.025	48.67	3.79	52.46	74.00	-21.54	peak
4	12298.200	47.69	5.18	52.87	74.00	-21.13	peak
5	16075.175	47.04	5.84	52.88	74.00	-21.12	peak
6	17965.150	44.47	13.45	57.92	74.00	-16.08	peak
7	17965.150	36.63	13.45	50.08	54.00	-3.92	AVG



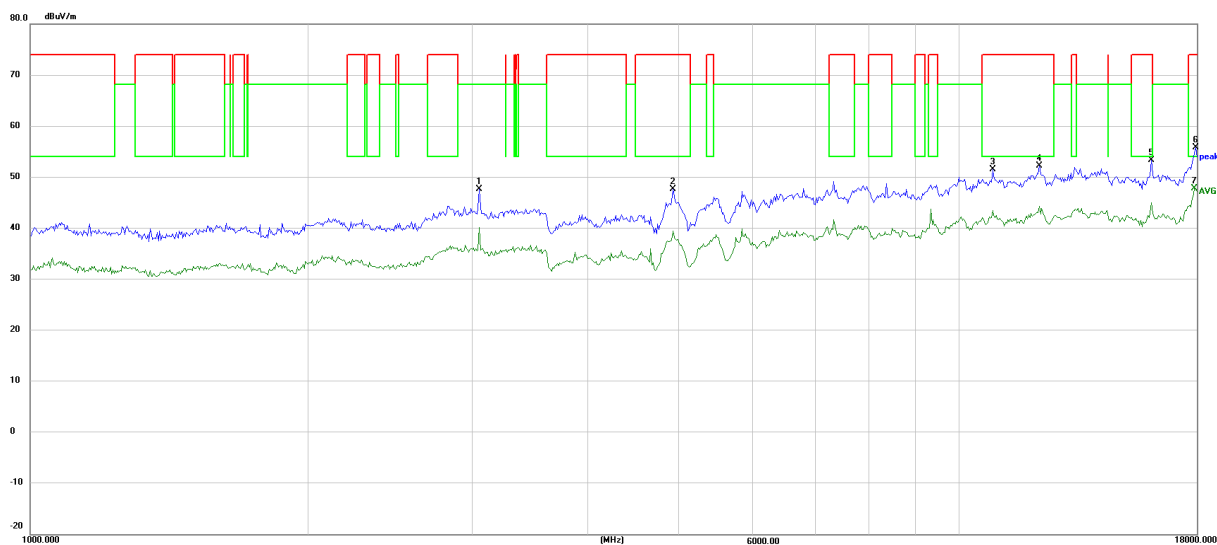
High Channel (5825 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3454.800	54.31	-9.53	44.78	68.20	-23.42	peak
2	5826.300	53.02	-5.22	47.80	68.20	-20.40	peak
3	9320.650	49.99	0.16	50.15	74.00	-23.85	peak
4	12051.700	47.44	5.02	52.46	74.00	-21.54	peak
5	16079.000	46.77	5.86	52.63	74.00	-21.37	peak
6	17993.625	42.43	13.58	56.01	74.00	-17.99	peak
7 *	17993.625	34.44	13.58	48.02	54.00	-5.98	AVG



High Channel (5825 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	3049.775	57.23	-9.60	47.63	68.20	-20.57	peak
2	4920.200	54.53	-6.87	47.66	74.00	-26.34	peak
3	10877.850	47.82	3.68	51.50	74.00	-22.50	peak
4	12205.550	47.67	4.53	52.20	74.00	-21.80	peak
5	16124.050	47.26	6.01	53.27	74.00	-20.73	peak
6	17955.375	42.36	13.41	55.77	74.00	-18.23	peak
7 *	17937.950	34.44	13.31	47.75	54.00	-6.25	AVG



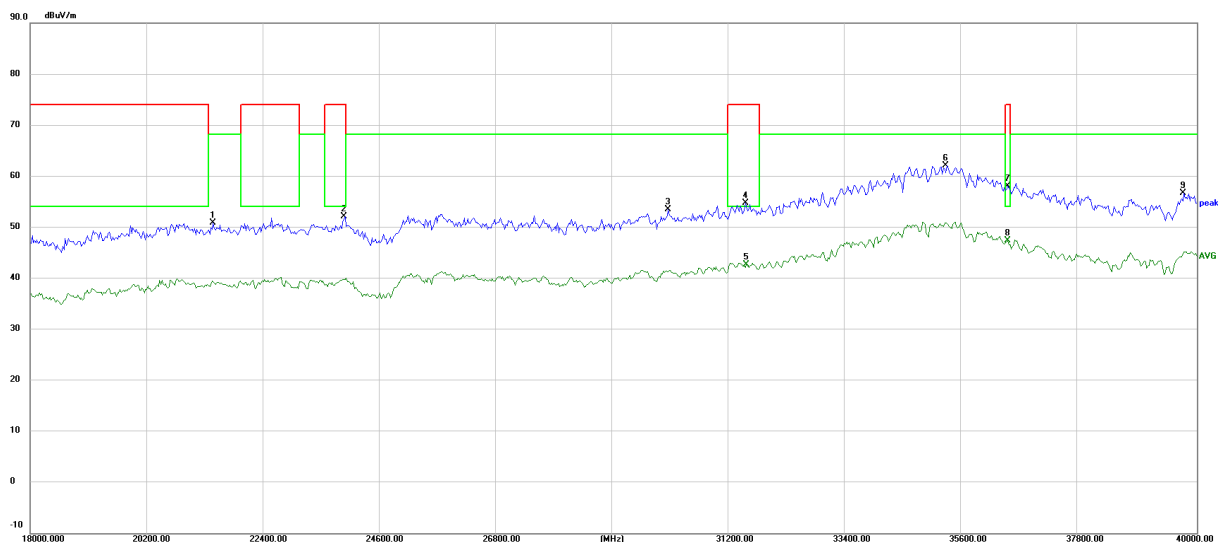
Note: "802.11a" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Factor= Antenna Factor + Cable Loss - Preamp Factor
Level=Reading value+Factor

2.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Handheld	Model Name. :	FieldHub1_0
Temperature :	25.3 °C	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.8G) -- 802.11a		

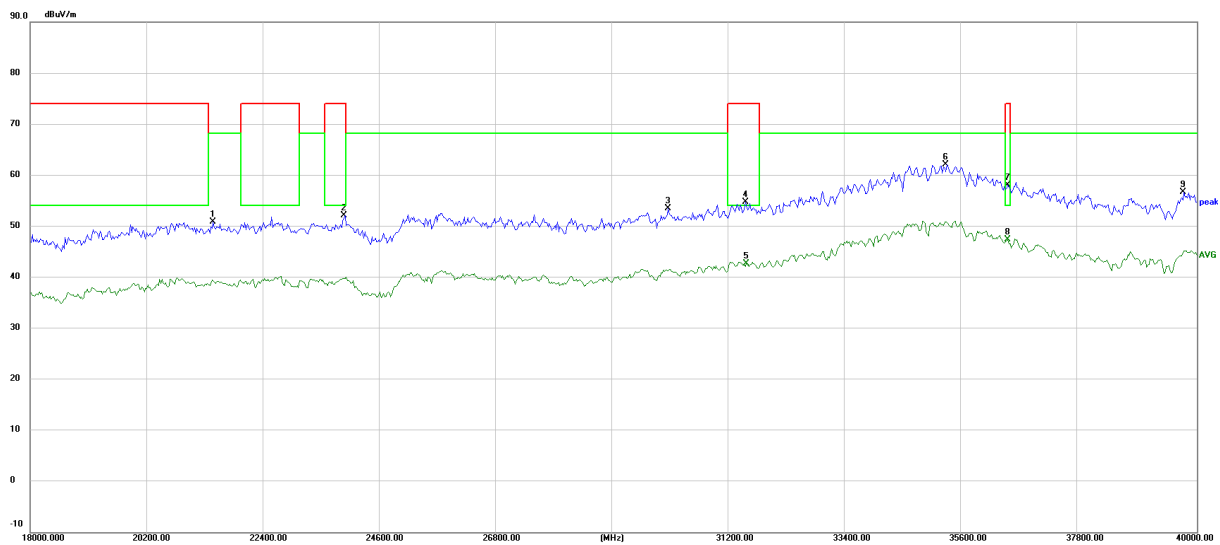
High Channel (5745 MHz)- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	21469.400	59.49	-8.60	50.89	68.20	-17.31	peak
2	23964.933	58.06	-5.91	52.15	74.00	-21.85	peak
3	30056.000	60.87	-7.40	53.47	68.20	-14.73	peak
4	31503.600	60.51	-5.70	54.81	74.00	-19.19	peak
5	31544.667	48.41	-5.65	42.76	54.00	-11.24	AVG
6 *	35314.733	59.31	2.83	62.14	68.20	-6.06	peak
7	36449.200	57.22	0.86	58.08	74.00	-15.92	peak
8	36449.200	46.49	0.86	47.35	54.00	-6.65	AVG
9	39787.333	53.55	3.11	56.66	68.20	-11.54	peak



High Channel (5745 MHz)- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	21469.400	59.49	-8.60	50.89	68.20	-17.31	peak
2	23964.933	58.06	-5.91	52.15	74.00	-21.85	peak
3	30056.000	60.87	-7.40	53.47	68.20	-14.73	peak
4	31503.600	60.51	-5.70	54.81	74.00	-19.19	peak
5 *	31544.667	48.41	-5.65	42.76	54.00	-11.24	AVG
6	35314.733	59.31	2.83	62.14	68.20	-6.06	peak
7	36449.200	57.22	0.86	58.08	74.00	-15.92	peak
8	36449.200	46.49	0.86	47.35	54.00	-6.65	AVG
9	39787.333	53.55	3.11	56.66	68.20	-11.54	peak



Note: 5.8G 802.11a mode is the worst mode

2.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

All the modulation modes have been tested, The report just record the worst data mode.

EUT :	Handheld	Model Name. :	FieldHub1_0
Temperature :	25.7 °C	Relative Humidity :	47.9%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.2G)- 802.11n20		

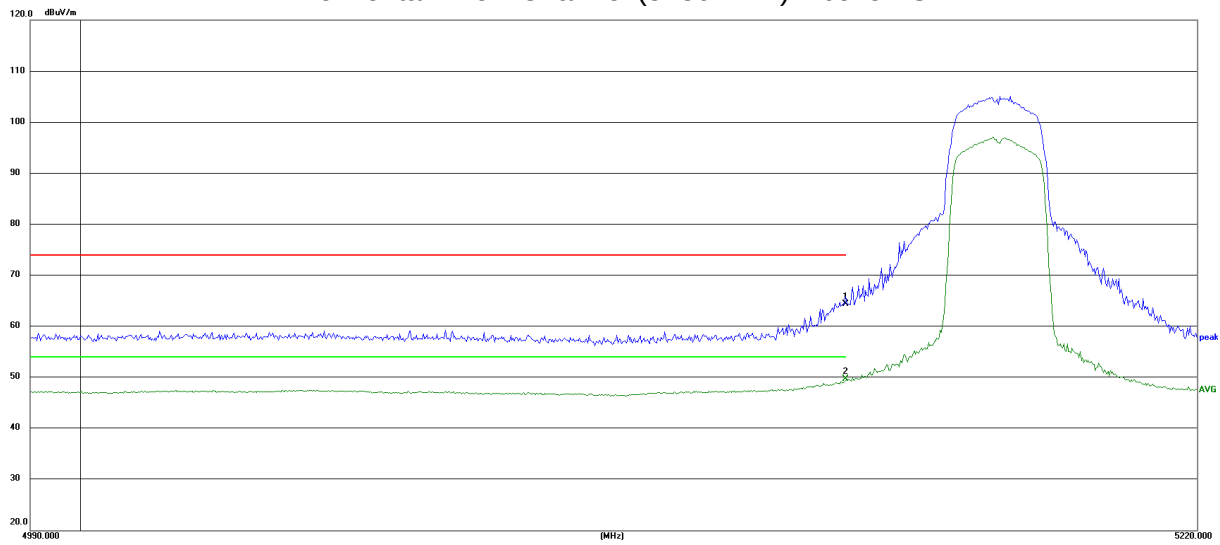
All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5180 MHz)-Above 1G



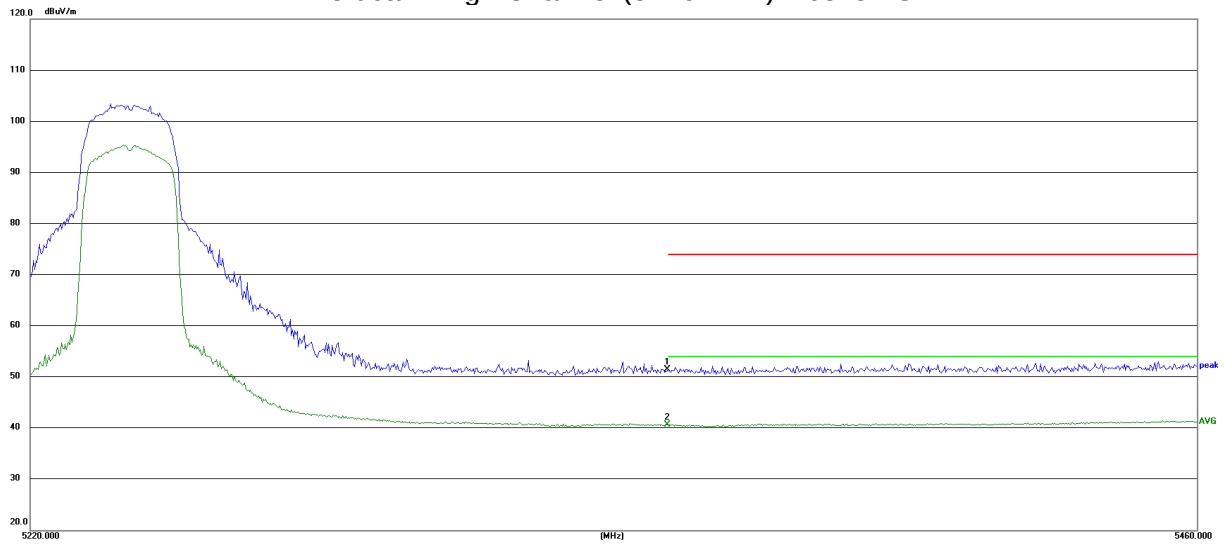
No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5150.000	57.41	6.10	63.51	74.00	-10.49	peak
2	5150.000	42.47	6.10	48.57	54.00	-5.43	AVG

Horizontal Low Channel (5180 MHz)-Above 1G



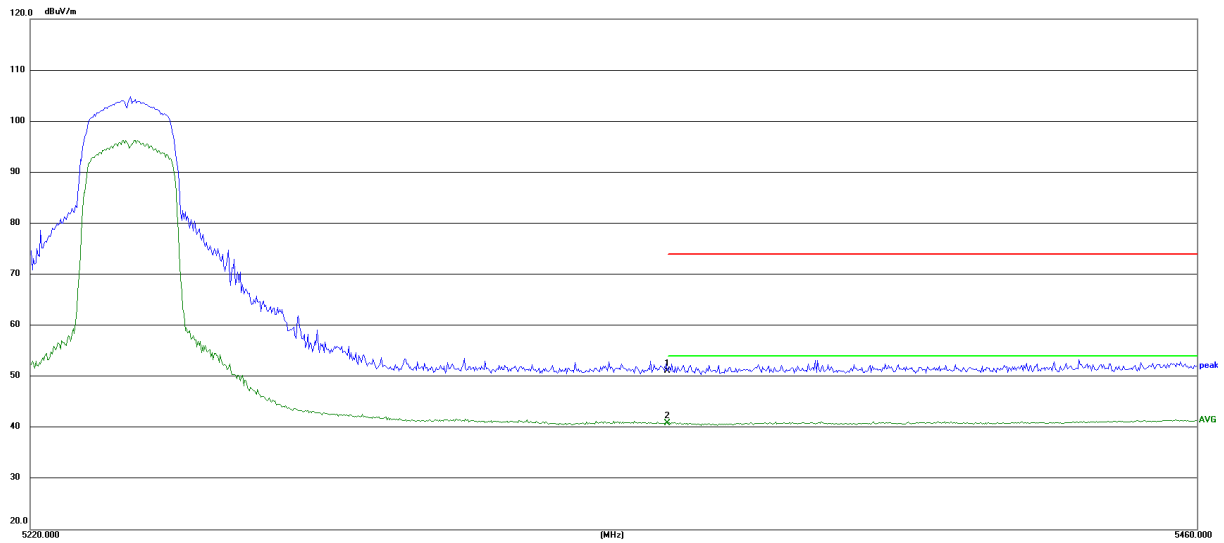
No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5150.000	58.27	6.10	64.37	74.00	-9.63	peak
2	5150.000	43.61	6.10	49.71	54.00	-4.29	AVG

Vertical High Channel (5240 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	52.34	-0.79	51.55	74.00	-22.45	peak
2	5350.000	41.50	-0.79	40.71	54.00	-13.29	AVG

Horizontal High Channel (5240 MHz)-Above 1G

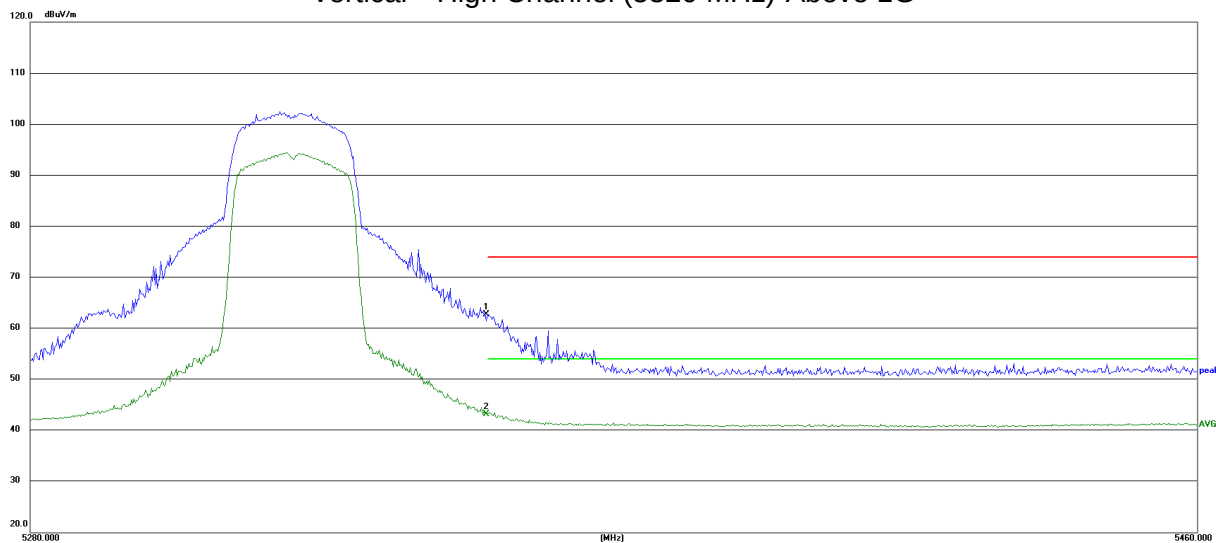


No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	51.86	-0.79	51.07	74.00	-22.93	peak
2	5350.000	41.70	-0.79	40.91	54.00	-13.09	AVG

EUT :	Handheld	Model Name. :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.3)- 802.11n20		

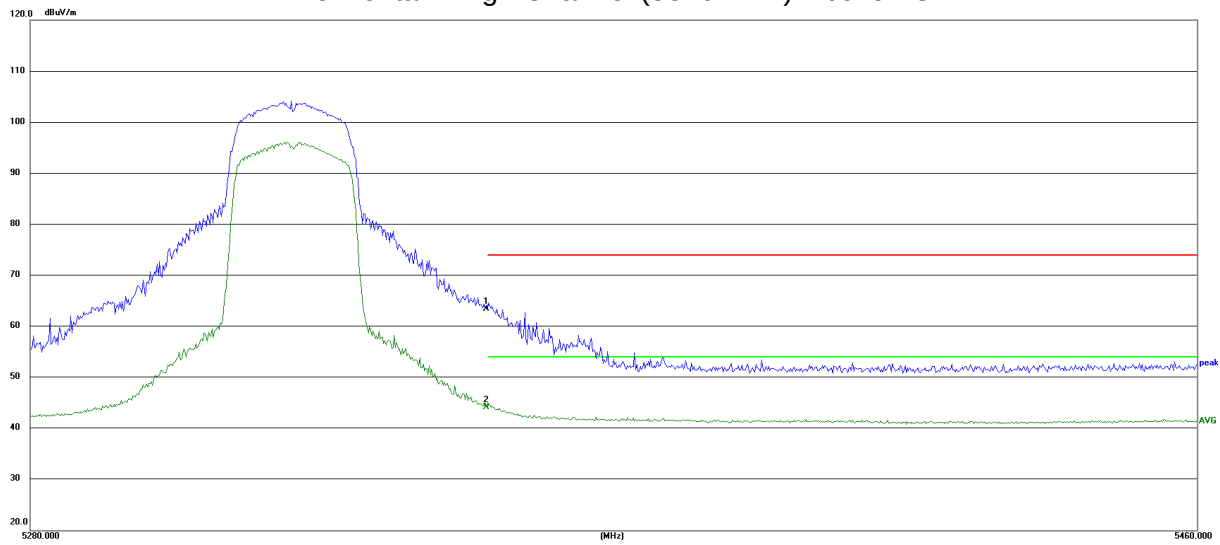
All the modulation modes have been tested, The report just record the worst data mode.

Vertical High Channel (5320 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	63.49	-0.79	62.70	74.00	-11.30	peak
2	5350.000	43.96	-0.79	43.17	54.00	-10.83	AVG

Horizontal High Channel (5320 MHz)-Above 1G



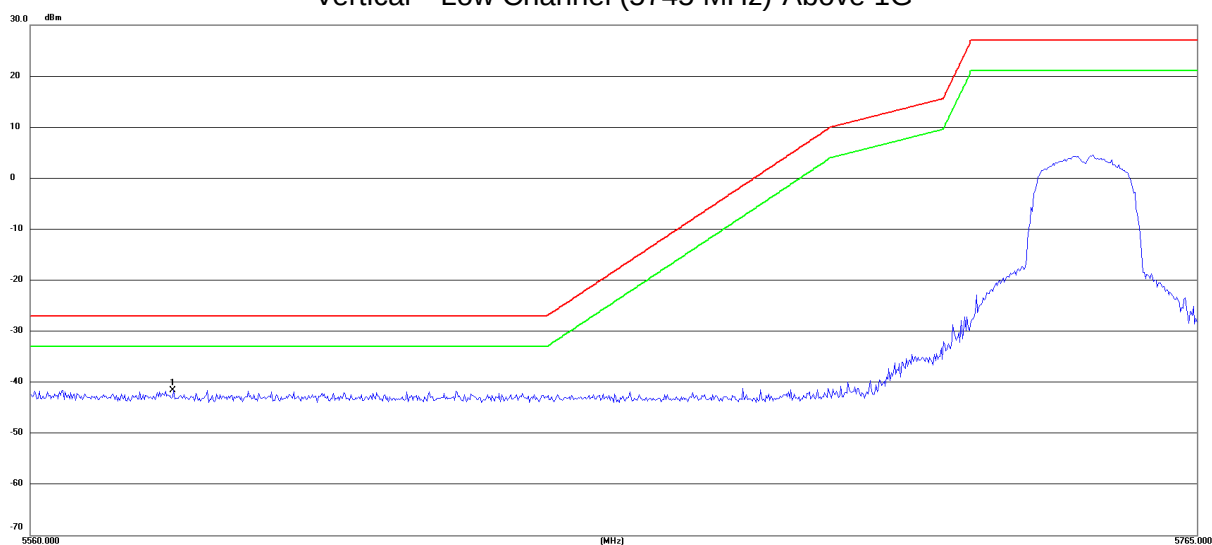
No.	Frequency (MHz)	Reading (dBμV/m)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.
1	5350.000	64.23	-0.79	63.44	74.00	-10.56	peak
2	5350.000	44.99	-0.79	44.20	54.00	-9.80	AVG

Unwanted emission for operating in the band 5725-5850 MHz

EUT :	Handheld	Model Name. :	FieldHub1_0
Temperature :	25.7℃	Relative Humidity :	49.7%
Pressure :	1010 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5.8G)-802.11n20		

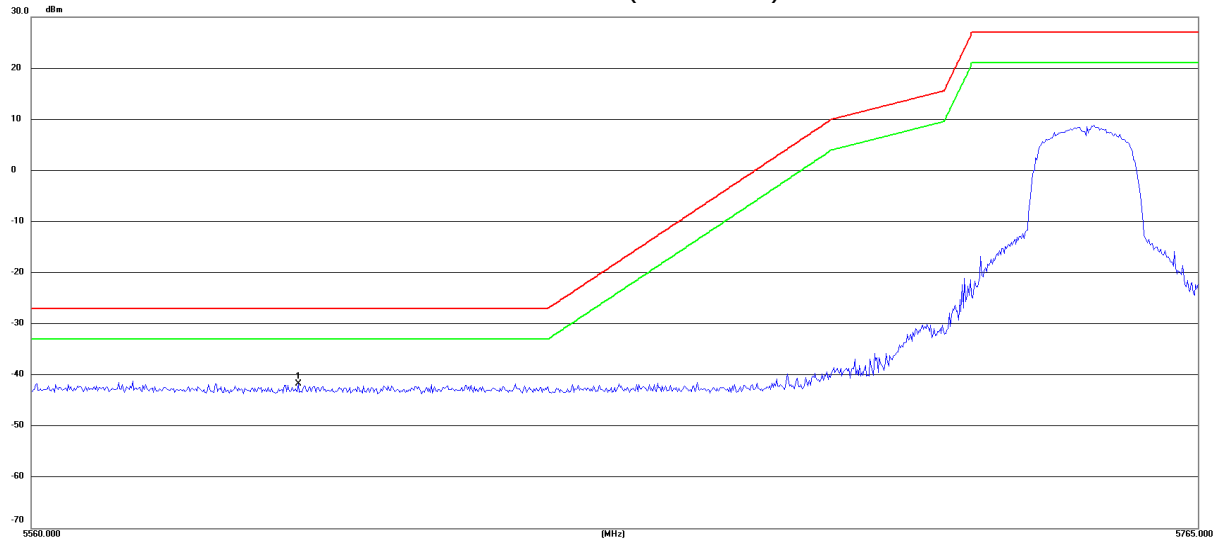
All the modulation modes have been tested, The report just record the worst data mode.

Vertical Low Channel (5745 MHz)-Above 1G



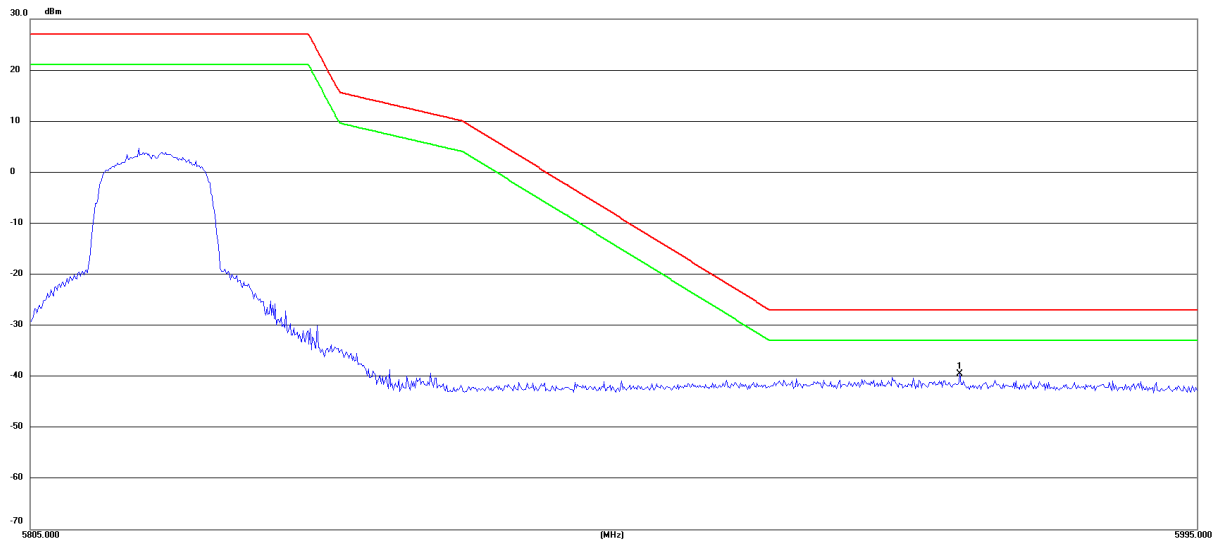
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5585.010	-53.49	11.97	-41.52	-27.00	-14.52	peak

Horizontal Low Channel (5745 MHz)-Above 1G



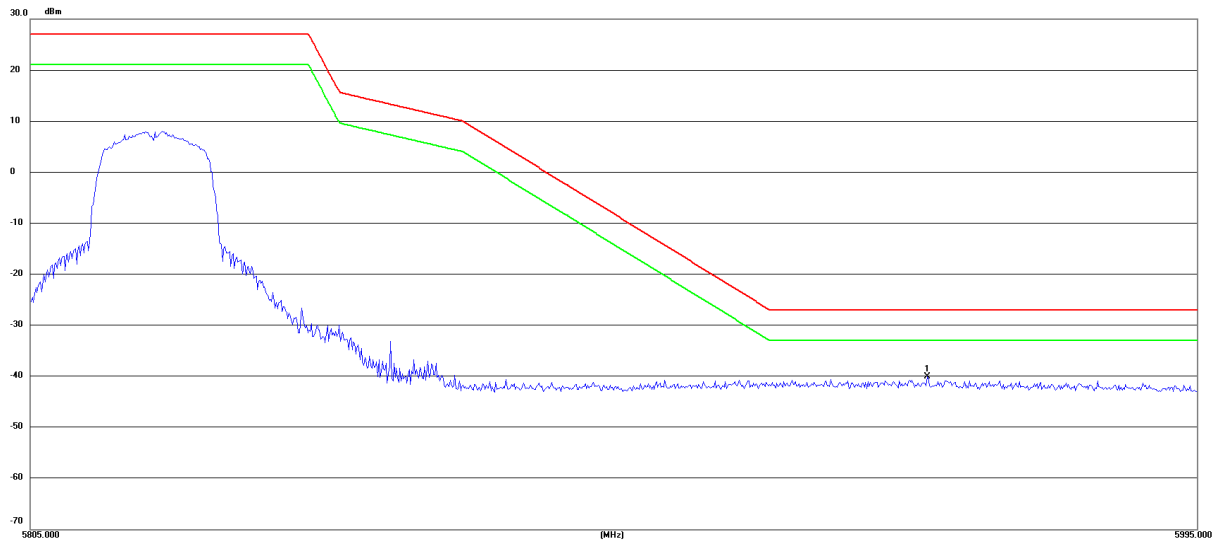
No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5606.330	-53.57	11.94	-41.63	-27.00	-14.63	peak

Vertical High Channel (5825 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5956.050	-52.74	13.30	-39.44	-27.00	-12.44	peak

Horizontal High Channel (5825 MHz)-Above 1G



No.	Frequency (MHz)	Reading (dBm)	Factor (dB)	Level (dBm)	Limit (dBm)	Margin (dB)	Det.
1	5950.730	-53.46	13.41	-40.05	-27.00	-13.05	peak

Note: (1) Emission Level= Factor + Read Level
(2)Factor= Antenna Factor+ Cable Loss-- Preamp Factor

3. POWER SPECTRAL DENSITY TEST

3.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

- (3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

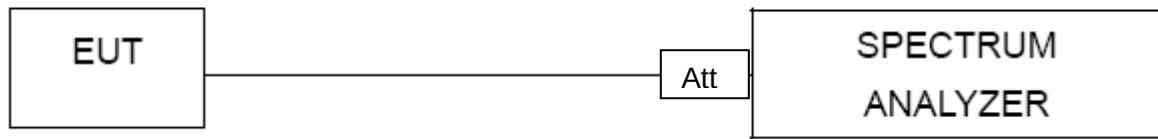
- a) Measure the duty cycle D of the transmitter output signal as described in 12.2.
- b) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal.
- c) Set RBW = 1 MHz.
- d) Set VBW ≥ 3 MHz.
- e) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- f) Sweep time = auto.
- g) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- h) Do not use sweep triggering. Allow the sweep to “free run.”
- i) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
- j) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument’s band power measurement function with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.
- k) Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1 / 0.25)] = 6$ dB if the duty cycle is 25%.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

3.3 DEVIATION FROM STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6 TEST RESULTS

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

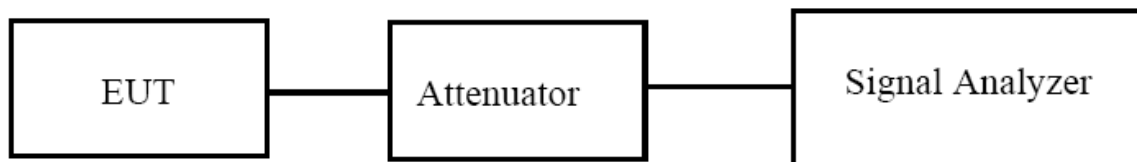
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

4.2 TEST PROCEDURE

- a) Set RBW = Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.4 TEST RESULTS

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 3(5725-5850MHz)		

Test data reference attachment.

5. MINIMUM 6 DB BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.2 TEST PROCEDURE

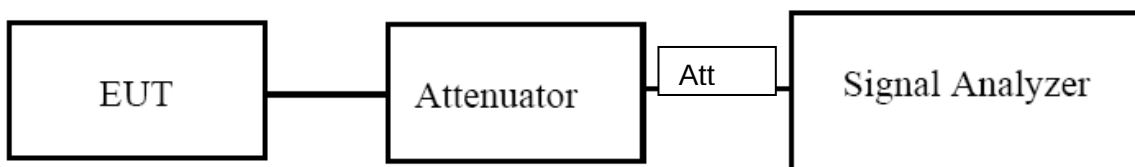
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5G) Mode Frequency Band 3 (5725-5850MHz)		

Test data reference attachment.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5470~5725	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

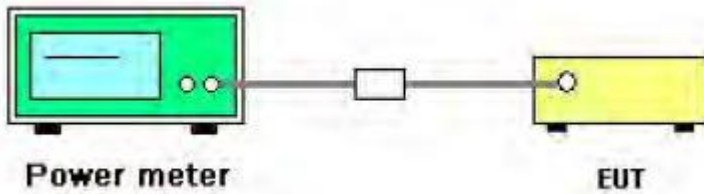
6.2 TEST PROCEDURE

- Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:
 - a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
 - c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
 - d) Correct the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.2 TEST RESULTS

EUT :	Handheld	Model Name :	FieldHub1_0
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.85V
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz) Band 3 (5725-5850MHz)		

Test data reference attachment.

7. Frequency Stability Measurement

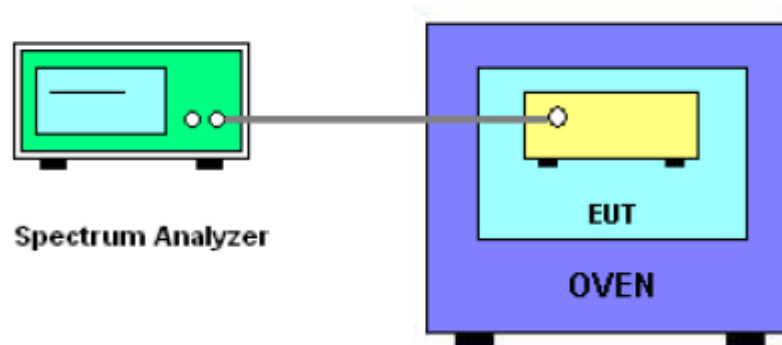
7.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm.
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

7.3 TEST SETUP LAYOUT



7.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.

7.5 TEST RESULTS

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

The applications for equipment certification are not required to include test reports with explicit demonstration of compliance.

8. DYNAMIC FREQUENCY SELECTION(DFS)

8.1 APPLICABILITY OF DFS REQUIREMENTS

EUT is client and operates as client without radar detection function.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

8.2 INTERFERENCE THRESHOLD VALUES, MASTER OR CLIENT INCORPORATING IN-SERVICE MONITORING

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

8.3 DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

8.4 SHORT PULSE RADAR TEST WAVEFORMS

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	$\text{Roundup}\left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\text{min}}}\right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

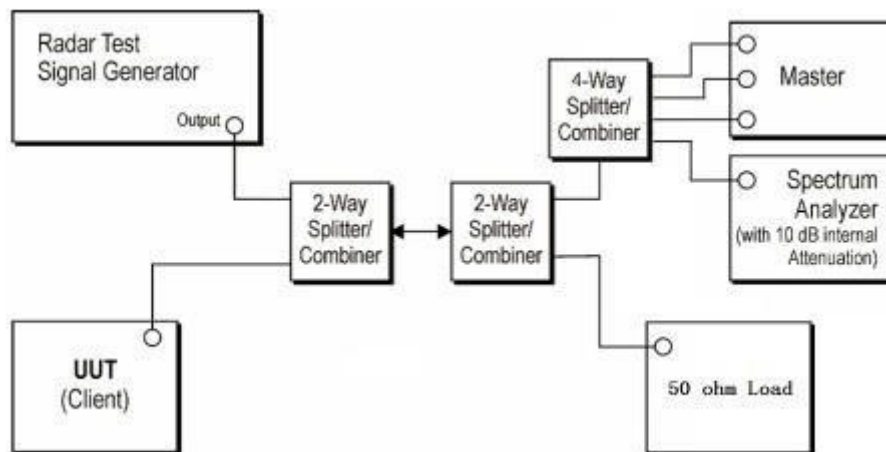
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

8.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

8.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	ASUSTek Computer Inc
	Model NO.	AX5400
	FCC ID	MSQ-RTAXJ300

Note:1. The Slave device associated with the EUT during these tests does not have radar detection capability.

2. WLAN traffic is generated by using the iperf software to send packets from the Master IP address to the Slave IP address.

3. The time required for the master and slave devices to fully start up is 120s.

4. EUT does not support TPC.

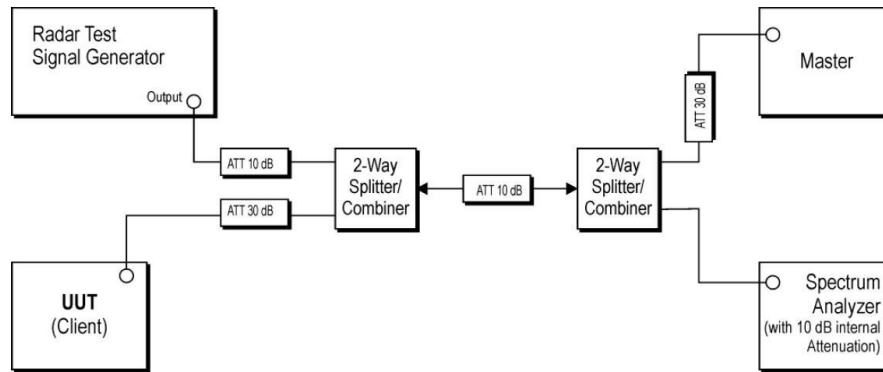
8.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

8.8 IN-SERVICE MONITORING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is Streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom In 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Mode	Frequency (MHz)
ac80	5290
n40	5310
a	5320

8.9 RESULT OF CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD FOR CLIENT BEACON TEST

Test data reference attachment.

9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, 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.

9.2 EUT ANTENNA

The EUT antenna is permanent attached FPC Antenna (Gain: 1.74dBi). It comply with the standard requirement.

END OF REPORT