

TEST REPORT

Verified Code: 608245

Report No.:	E20210414049301-4	Application No.:	E20210414049301
Client:	Lumi United Technology Co., Ltd		
Address:	8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen.China		
Sample Description:	Hub E1		
Model:	HE1-G01		
Test Specification:	CFR 47, FCC Part 15 Subpart C RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators		
Receipt Date:	2021-04-20		
Test Date:	2021-06-18 to 2021-07-14		
Issue Date:	2021-07-27		
Test Result:	Pass		
Prepared By: Test Engineer <i>Yu shanshan.</i>	Reviewed By: Technical Manager <i>Jiang Tao</i>	Approved By: Manager <i>John Lee</i>	
Other Aspects:			
Note: Note			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable;			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			



DIRECTIONS OF TEST

- 1. This station carries out test task according to the national regulation of verification which can be traced to National Primary Standards and BIPM.**
- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart C (§15.247)	Antenna Requirement	§15.203	PASS
	Conducted Emissions	§15.207 (a)	PASS
	Radiated Spurious Emission	§15.247(d)	PASS
	6 dB Bandwidth	§15.247 (a)(2)	PASS
	Maximum Peak Output Power	§15.247(b)(3)	PASS
	Power Spectral Density	§15.247(e)	PASS
	Conducted band edges and Spurious Emission	§15.247(d)	PASS
	Restricted bands of operation	§15.205	PASS

The EUT have one antennas. The antenna is internal antenna.

The max gain of antenna is 2.5dBi.which accordance 15.203.is considered sufficient to comply with the provisions of this section.

2. GENERAL DESCRIPTION OF EUT

2.1. APPLICANT

Name: Lumi United Technology Co., Ltd
Address: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave,
Taoyuan Residential District, Nanshan District, Shenzhen.China

2.2. MANUFACTURER

Name: Lumi United Technology Co., Ltd
Address: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave,
Taoyuan Residential District, Nanshan District, Shenzhen.China

2.3. FACTORY

Name: Lumi United Technology Co., Ltd
Address: 8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave,
Taoyuan Residential District, Nanshan District, Shenzhen.China

2.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Hub E1
Model No.: HE1-G01
Adding Model: /
Trade Name: Aqara
FCC ID: 2AKIT-HE1G01
Power Supply: Input: 5V , 0.5A
Adapter Specification: /
Frequency Range: 2412MHz~2462MHz: 802.11b; 802.11g; 802.11n(HT20)
2422MHz~2452MHz: 802.11n(HT40);
Transmit Power: 18.96dBm for 802.11b mode
24.62dBm for 802.11g mode
24.39dBm for 802.11n HT20 mode
23.28dBm for 802.11n HT40 mode
Modulation type: DSSS for 802.11b mode;
OFDM for 802.11g mode;
OFDM for 802.11n mode.
Channel space: 5MHz
Antenna Specification: Internal antenna with 2.5dBigain (Max.)
Temperature Range: -10 ℃ ~ 40 ℃

Hardware Version: T0

Software Version: 3.2.4_0028

Sample No: E20210414049301-0006

Note: /

2.5. TEST OPERATION MODE

Mode No.	Description of the modes
1	2.4G wifi fixed transmitting

2.6. LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	LENOVO	TianYi 310-14ISK	MP18DLC6	/
Adapter (Notebook)	LENOVO	ADLX65NCC3A	N/A	/
Adapter	Apple	A1443	/	/
Cable				
AC cable	/	/	/	Unshielded, 1.00m
DC cable	/	/	/	Shielded, 1.80m

Test software:

Software version
QCOM_V1.0

Mode	Date Rate	Frequency (MHz)	Power Setting
802.11b	1M	2412	-10
		2437	-10
		2462	-10
802.11g	6M	2412	-8
		2437	-8
		2462	-8
802.11n HT20	MCS0	2412	-8
		2437	-8
		2462	-8
802.11n HT40	MCS0	2422	-8
		2437	-8
		2452	-8

3. LABORATORY AND ACCREDITATIONS

3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add : Address: No.1301 Guanguang Road Xinlan Community, Guanlan Street,
Longhua District Shenzhen, 518110, People's Republic of China

P.C. : 518000

Tel : 0755-61180008

Fax : 0755-61180008

3.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to GB/T 27025(ISO/IEC 17025:2017)

USA A2LA(Certificate #:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada Industry Canada

USA FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.grgtest.com>

3.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
	Vertical	30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
Conduction Emission		9 kHz ~ 150 kHz	2.80dB
		150 kHz ~ 10 MHz	2.80dB
		10 MHz ~ 30 MHz	2.20dB

This uncertainty represents an expanded uncertainty factor of k=2.

4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EMI TEST RECEIVER	R&S	ESCI	100783	2021-10-08
LISN(EUT)	R&S	ENV216	101543	2022-03-21
Radiated Spurious Emission&Restricted bands of operation				
Spectrum Analyzer	Agilent	N9010A	MY52221469	2022-04-16
Bilog Antenna	Schwarzbeck	VULB 9163	01279	2022-02-25
Horn Antenna	Schwarzbeck	BBHA9120D	286	2021-10-08
Bi-log Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2021-11-05
Amplifier	Tonscend	TAP9E6343	AP20E806065	2022-06-03
Amplifier	Tonscend	TAP01018048	AP20E8060075	2022-06-07
Test S/W	Tonscend	JS32-RE/2.5.1.5		
Test S/W	Tonscend	CCS-3A1-CE		
6 dB Bandwidth				
Spectrum Analyzer	R&S	FSV30	104381	2022-02-21
Output Power				
Pulse power sensor	Agilent	MA2411B	1126150	2022-03-21
Power meter	Anritsu	ML2495A	1204003	2022-03-21
Conducted band edges and Spurious Emission				
Spectrum Analyzer	R&S	FSV30	104381	2022-02-21
Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2022-02-21

Note: The calibration interval of the above test instruments is 12 months.

5. CONDUCTED EMISSION MEASUREMENT

5.1.LIMITS

Frequency range	Limits (dBμV)	
	Quasi-peak	Average
150kHz ~ 0.5MHz	66~56	56~46
0.5 MHz ~ 5 MHz	56	46
5 MHz ~ 30 MHz	60	50

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150 kHz to 0.5MHz.

5.2.TEST PROCEDURES

Procedure of Preliminary Test

Test procedures follow ANSI C63.10:2013.

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

- Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

- 1) place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or
- 2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

- All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

- The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

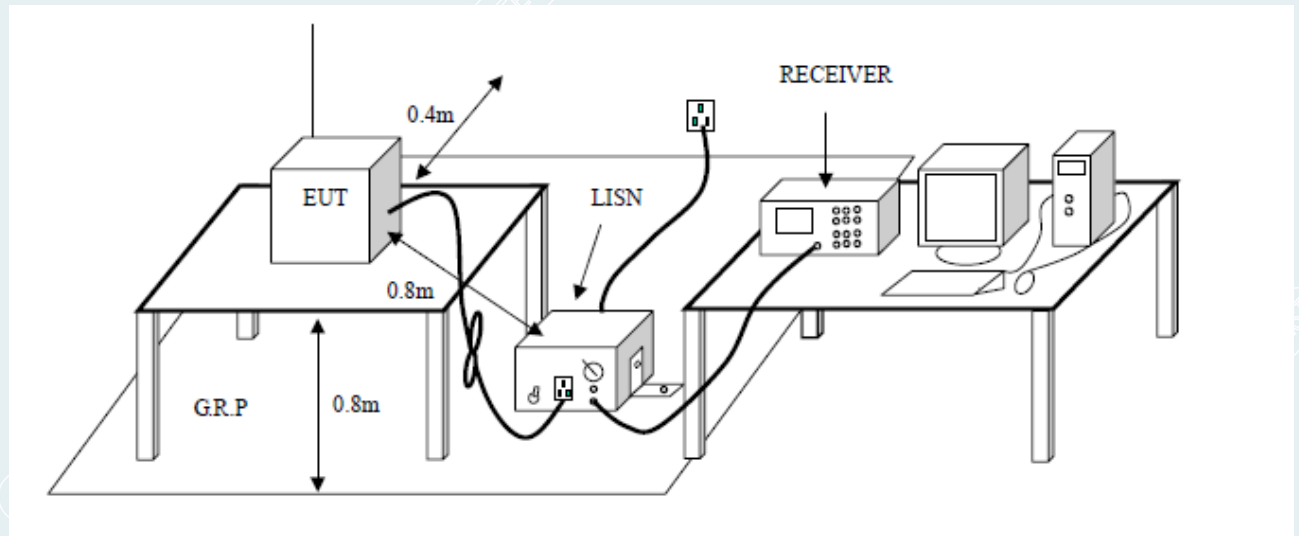
- I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

The test mode(s) described in Item 2.4 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.4 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.3.TEST SETUP



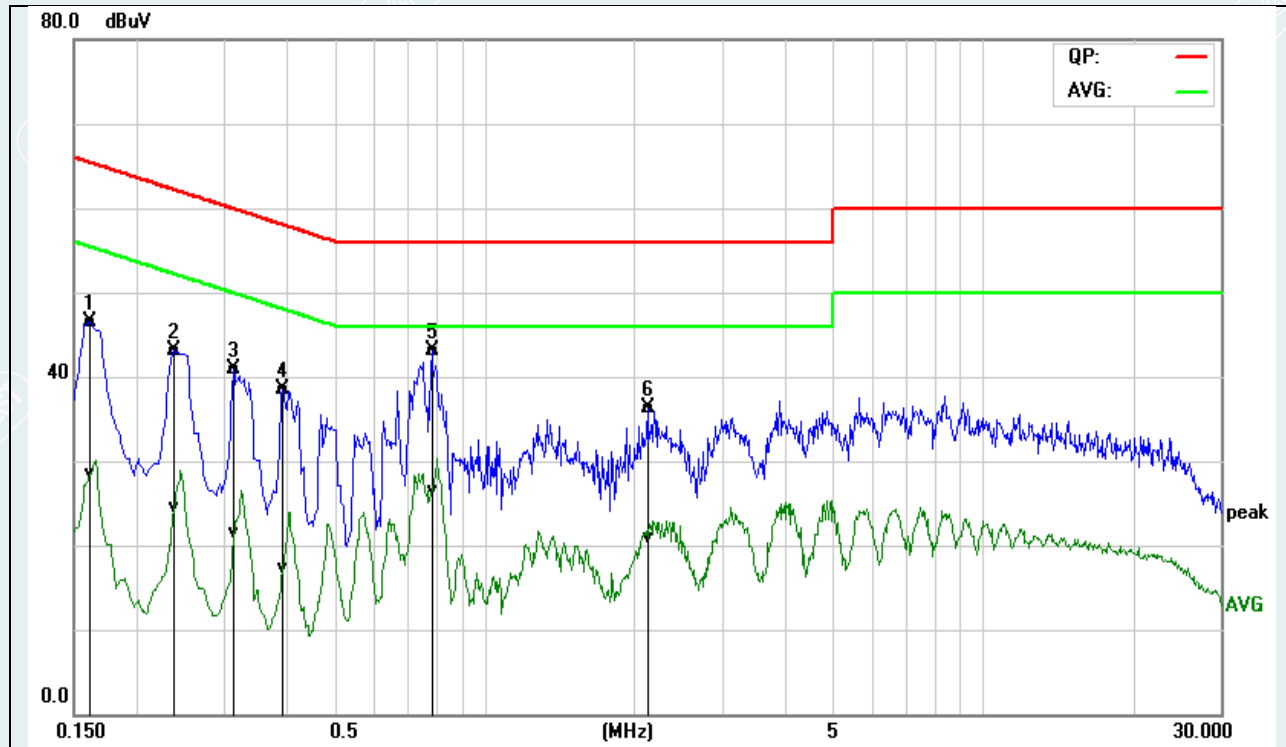
5.4.DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

Factor = Insertion loss of LISN + Cable Loss
 Result = Quasi-peak Reading/ Average Reading + Factor
 Limit = Limit stated in standard
 Margin = Result (dBuV) – Limit (dBuV)

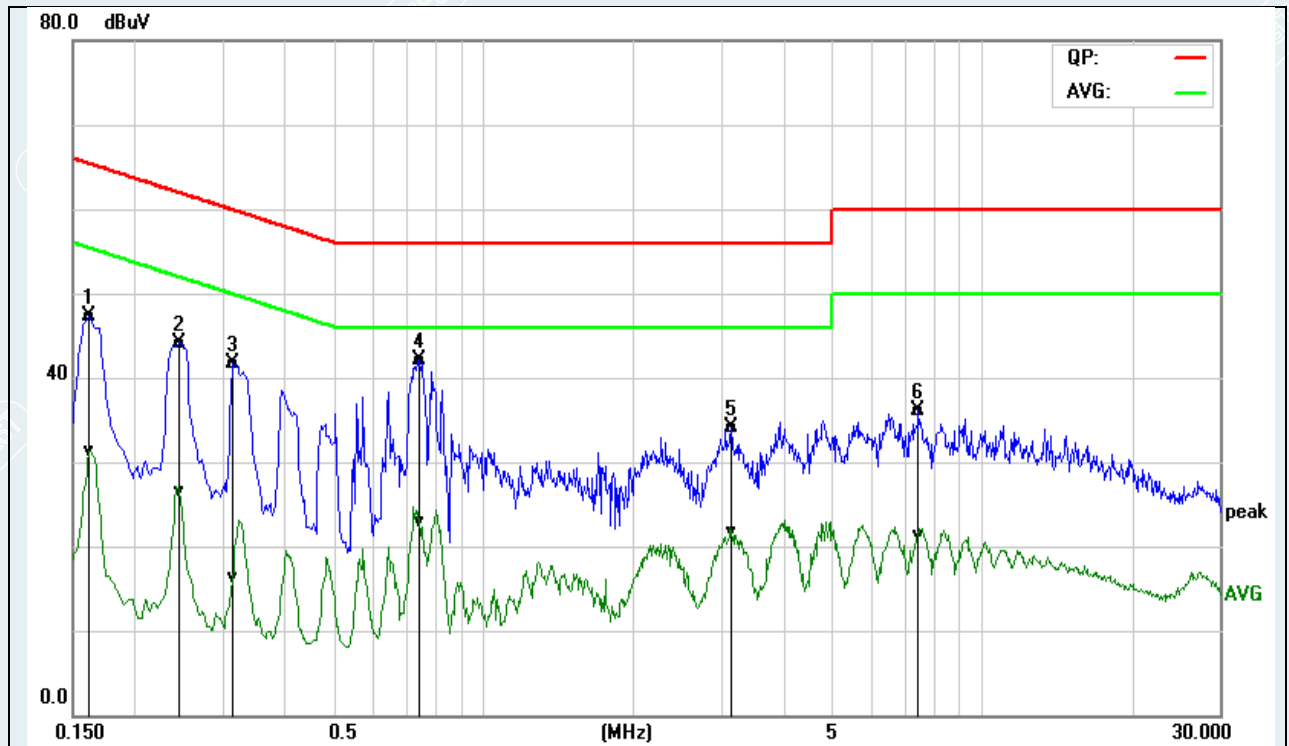
5.5.TEST RESULTS

Model No.	HE1-G01	RBW,VBW	9 kHz
Environmental Conditions	24.2℃/48%RH	Test Mode	Mode 1
Tested By	Wang Xinyuan	Line	L
Tested Date	2021/7/13	Test Voltage	AC120V/60Hz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	36.96	18.82	9.61	46.57	28.43	65.36	55.36	-18.79	-26.93	Pass
2	0.2380	33.55	14.87	9.63	43.18	24.50	62.16	52.17	-18.98	-27.67	Pass
3	0.3140	31.28	11.82	9.64	40.92	21.46	59.86	49.86	-18.94	-28.40	Pass
4	0.3940	28.78	7.57	9.66	38.44	17.23	57.98	47.98	-19.54	-30.75	Pass
5*	0.7860	33.43	16.83	9.66	43.09	26.49	56.00	46.00	-12.91	-19.51	Pass
6	2.1220	26.59	11.29	9.66	36.25	20.95	56.00	46.00	-19.75	-25.05	Pass

Model No.	HE1-G01	RBW,VBW	9 kHz
Environmental Conditions	24.2℃/48%RH	Test Mode	Mode 1
Tested By	Wang Xinyuan	Line	N
Tested Date	2021/7/13	Test Voltage	AC120V/60Hz



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1620	37.72	21.78	9.60	47.32	31.38	65.36	55.36	-18.04	-23.98	Pass
2	0.2460	34.57	16.97	9.63	44.20	26.60	61.89	51.89	-17.69	-25.29	Pass
3	0.3140	32.01	6.67	9.64	41.65	16.31	59.86	49.86	-18.21	-33.55	Pass
4*	0.7460	32.54	13.18	9.66	42.20	22.84	56.00	46.00	-13.80	-23.16	Pass
5	3.1420	24.46	12.06	9.68	34.14	21.74	56.00	46.00	-21.86	-24.26	Pass
6	7.4500	26.34	11.46	9.81	36.15	21.27	60.00	50.00	-23.85	-28.73	Pass

6. RADIATED SPURIOUS EMISSIONS

6.1.LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak($\mu\text{V/m}$)	Measurement distance(m)	Quasi-peak($\text{dB}\mu\text{V/m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	53.8~88.5
0.490-1.705	24000/F(kHz)	30	43~53.8
1.705-30.0	30	30	49.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE: (1) The lower limit shall apply at the transition frequencies.

NOTE: (2) Above 18G Limit= $74+20\log(3/1)=83.54$ ($\text{dB}\mu\text{V/m}$).

6.2.TEST PROCEDURES(please refer to measurement standard)

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0° to 315° using 45° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 °to 360 °) and by rotating the elevation axes (0 °to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 315 °using 45 °steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm 45^\circ$) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 18 GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).

6.3.TEST SETUP

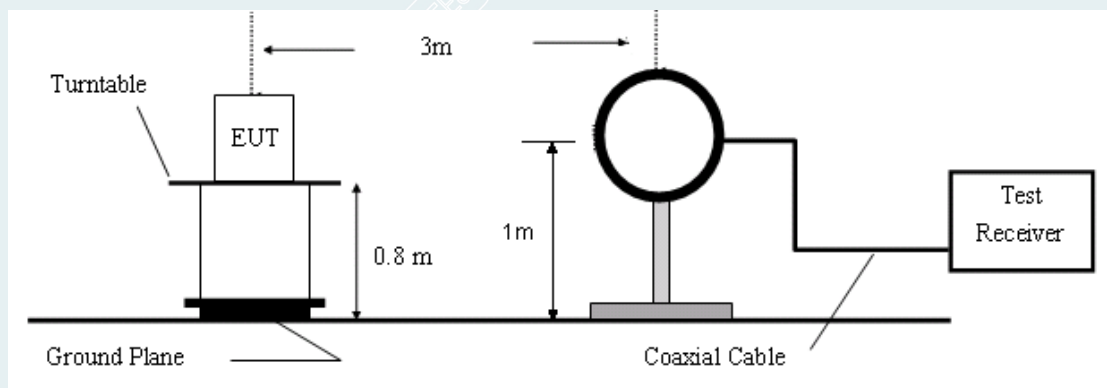


Figure 1. 9 KHz to 30MHz radiated emissions test configuration

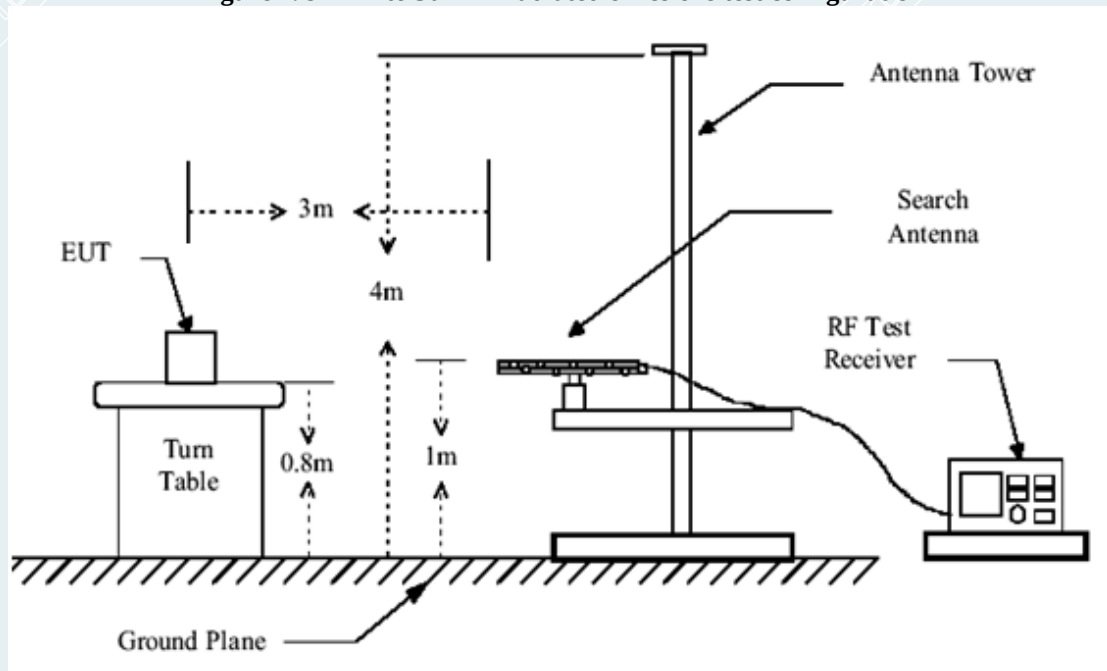


Figure 2. 30MHz to 1GHz radiated emissions test configuration

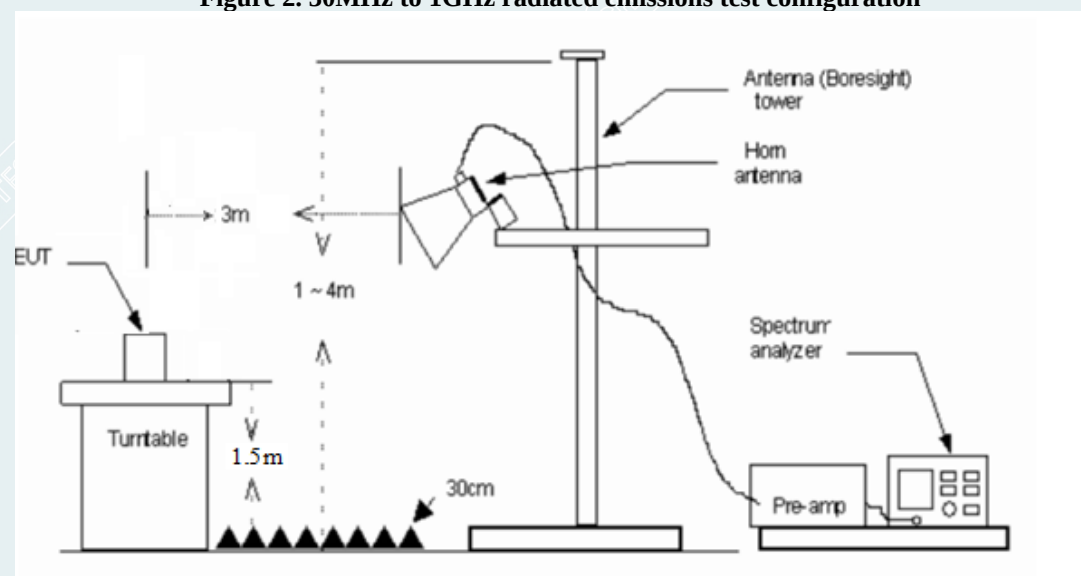


Figure 3. 1GH to 18GHz radiated emissions test configuration

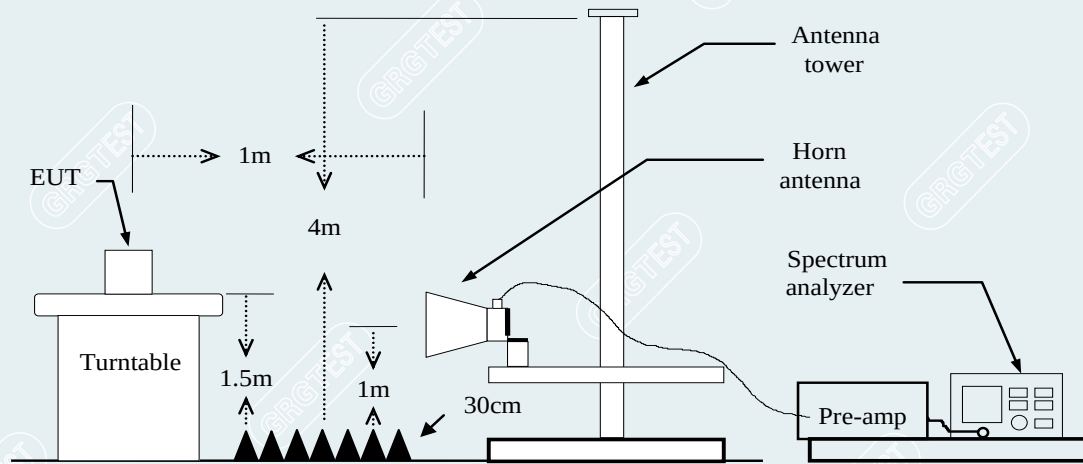


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

6.4.DATA SAMPLE

30MHz to 1GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	37.06	-15.48	21.58	40.00	-18.42	QP	Vertical

Above 1 GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	65.45	-11.12	54.33	74.00	-19.67	peak	Vertical
xxx	xxx	63.00	-11.12	51.88	54.00	-2.12	AVG	Vertical

Above 18 GHz

No.	Frequency (MHz)	Reading (dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Pole
xxx	xxx	68.86	57.66	-11.20	83.54	25.88	peak	Vertical
xxx	xxx	68.89	-11.20	57.69	63.54	5.85	AVG	Vertical

Frequency (MHz) = Emission frequency in MHz

Ant.Pol. (H/V) = Antenna polarization

Reading (dBuV) = Uncorrected Analyzer / Receiver reading

Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain

Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Remark Result (dBuV/m) – Limit (dBuV/m)

Peak = Peak Reading

QP = Quasi-peak Reading

AVG = Average Reading

6.5.TEST RESULTS

30MHz to 1GHz

Recorded the worst case results in this report (IEEE 802.11b)

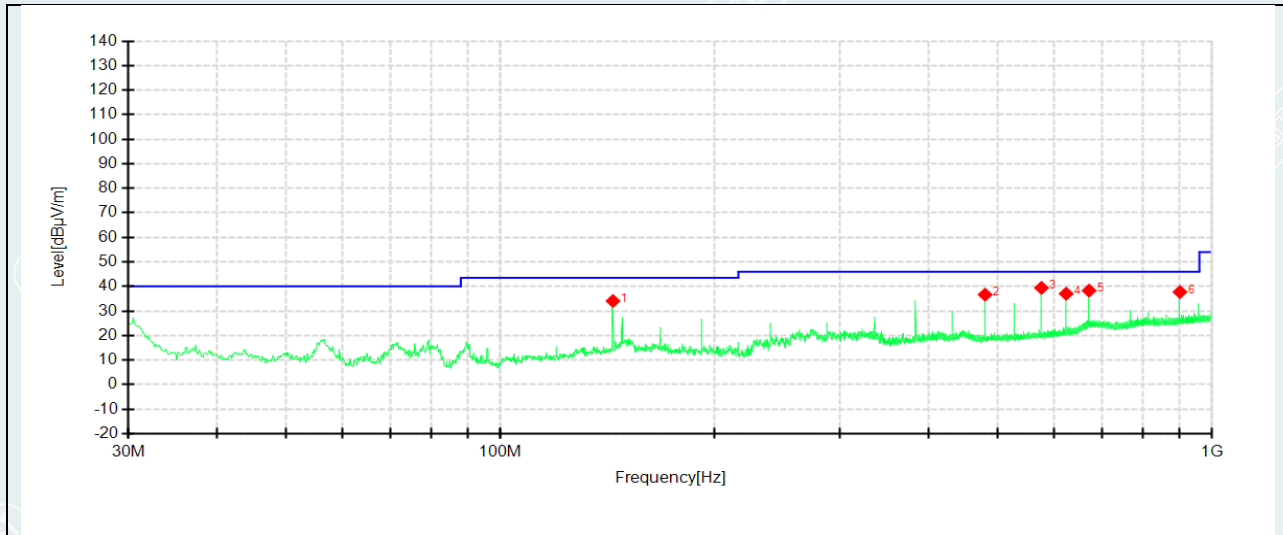
Mode: TX/ IEEE 802.11b

Lowest channel (2412MHz)

Polarity

Date: 2021-07-14

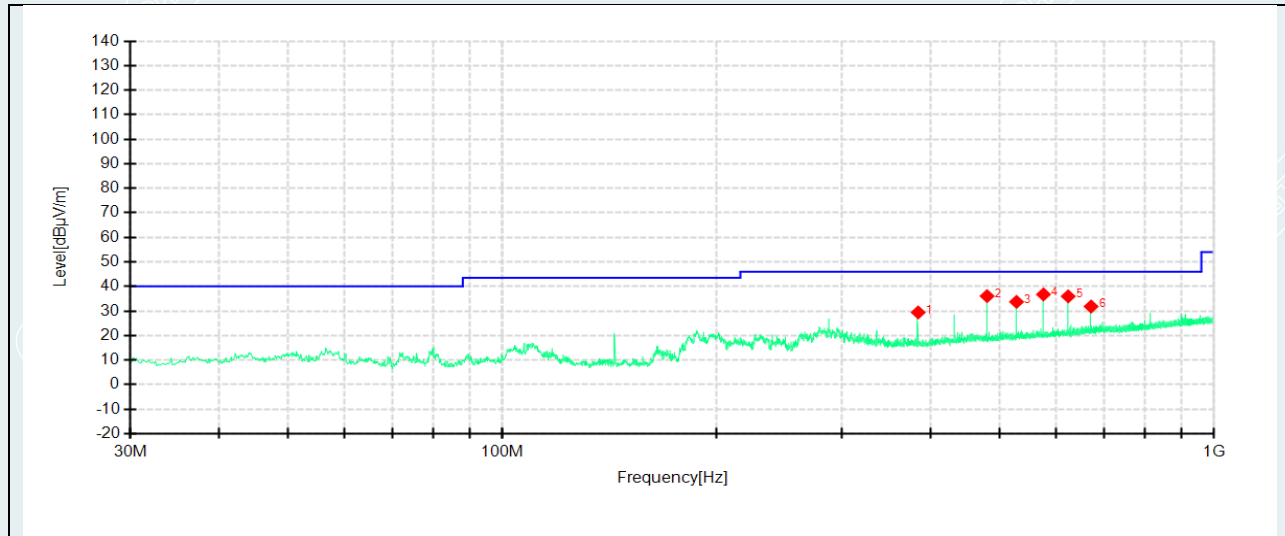
Vertical



No.	Freq.	Reading	Level	Factor	Limit	Margin	Trace	Height	Angle	Polarity
	(MHz)	(dBuV/m)	[dBμV/m]	(dB)	(dBuV/m)	(dB)		(cm)	[°]	
1	143.9750	60.17	34.07	-26.10	43.50	9.43	QP	150	178	Vertical
2	479.9588	58.00	36.66	-21.34	46.00	9.34	QP	150	243	Vertical
3	575.9888	58.54	39.41	-19.13	46.00	6.59	QP	150	86	Vertical
4	624.0038	55.24	37.04	-18.20	46.00	8.96	QP	150	47	Vertical
5	672.0188	55.60	38.31	-17.29	46.00	7.69	QP	150	63	Vertical
6	901.6663	51.45	37.73	-13.72	46.00	8.27	QP	150	320	Vertical

Mode: TX/ IEEE 802.11b
 Lowest channel (2412MHz)
 Polarity

Date: 2021-07-14
 Horizontal



No.	Freq. (MHz)	Reading (dBμV/m)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Trace	Height (cm)	Angle [°]	Polarity
1	384.0500	52.70	29.41	-23.29	46.00	16.59	QP	150	264	Horizontal
2	479.9588	57.22	36.06	-21.16	46.00	9.94	QP	150	226	Horizontal
3	527.9738	53.69	33.71	-19.98	46.00	12.29	QP	150	226	Horizontal
4	575.9888	55.68	36.75	-18.93	46.00	9.25	QP	150	117	Horizontal
5	624.0038	54.12	35.97	-18.15	46.00	10.03	QP	150	117	Horizontal
6	672.0188	49.35	31.83	-17.52	46.00	14.17	QP	150	122	Horizontal

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9 kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

Above 1GHz-18GHz:

Mode: TX / IEEE 802.11b

Lowest channel (2412MHz)

Date: 2021-06-18

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1392.2990	61.12	37.43	-23.69	74.00	36.57	150	350	Horizontal
2	1488.0610	60.92	37.77	-23.15	74.00	36.23	150	204	Horizontal
3	1755.8445	62.17	39.68	-22.49	74.00	34.32	150	235	Horizontal
4	2388.6736	60.08	39.42	-20.66	74.00	34.58	150	305	Horizontal
5	4823.5515	62.36	51.71	-10.65	74.00	22.29	150	68	Horizontal
6	7235.8897	54.61	49.72	-4.89	74.00	24.28	150	131	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0339	-10.64	61.46	50.82	74.00	23.18	150	64	Horizontal
2	7236.9751	-4.90	49.74	44.84	74.00	29.16	150	129	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0339	-10.64	61.29	50.65	54.00	3.35	150	64	Horizontal
2	7236.9751	-4.90	49.59	44.69	54.00	9.31	150	129	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	59.09	33.94	-25.15	74.00	40.06	150	101	Vertical
2	1392.0490	59.16	35.47	-23.69	74.00	38.53	150	291	Vertical
3	1487.8110	58.42	35.27	-23.15	74.00	38.73	150	317	Vertical
4	1764.0955	58.17	35.74	-22.43	74.00	38.26	150	208	Vertical
5	4823.5515	57.69	47.04	-10.65	74.00	26.96	150	116	Vertical
6	7207.7630	51.15	46.55	-4.60	74.00	27.45	150	76	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.9583	-10.64	56.50	45.86	74.00	28.14	150	112	Vertical
2	7236.7516	-4.91	48.74	43.83	74.00	30.17	150	299	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.9583	-10.64	56.19	45.55	54.00	8.45	150	112	Vertical
2	7236.7516	-4.91	48.56	43.65	54.00	10.35	150	299	Vertical

Mode: TX/ IEEE 802.11b
Middle channel (2437 MHz)

Date: 2021-07-09

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	62.62	37.47	-25.15	74.00	36.53	100	106	Horizontal
2	1341.2927	58.70	34.79	-23.91	74.00	39.21	200	356	Horizontal
3	1888.3610	57.94	36.02	-21.92	74.00	37.98	200	285	Horizontal
4	2538.1923	55.75	36.00	-19.75	74.00	38.00	100	195	Horizontal
5	3946.9934	53.82	38.64	-15.18	74.00	35.36	100	240	Horizontal
6	4873.3592	60.64	49.89	-10.75	74.00	24.11	200	344	Horizontal

PK Final Data List					
NO.	Freq. [MHz]	Factor [dB]	Height [cm]	Angle [°]	Polarity
1	4873.9927	-10.75	179	349	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.9927	-10.75	59.40	48.65	54.00	5.35	179	349	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	62.78	37.63	-25.15	74.00	36.37	100	126	Vertical
2	1351.0439	60.49	36.61	-23.88	74.00	37.39	200	121	Vertical
3	1585.5732	60.51	37.44	-23.07	74.00	36.56	100	51	Vertical
4	2435.9295	59.83	39.42	-20.41	74.00	34.58	100	120	Vertical
5	3487.5609	54.77	38.46	-16.31	74.00	35.54	100	232	Vertical
6	4873.3592	62.05	51.30	-10.75	74.00	22.70	200	226	Vertical

PK Final Data List					
NO.	Freq. [MHz]	Factor [dB]	Height [cm]	Angle [°]	Polarity
1	4873.9927	-10.75	168	253	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.9927	-10.75	61.43	50.68	54.00	3.32	168	253	Vertical

Mode: TX / IEEE 802.11b
Highest channel (2462MHz)

Date:2021-07-09

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	65.31	40.16	-25.15	74.00	33.84	100	113	Horizontal
2	1103.7630	61.34	36.44	-24.90	74.00	37.56	100	126	Horizontal
3	1672.5841	60.01	37.43	-22.58	74.00	36.57	200	31	Horizontal
4	2041.6302	57.68	36.13	-21.55	74.00	37.87	100	25	Horizontal
5	2888.2360	56.29	37.63	-18.66	74.00	36.37	100	79	Horizontal
6	4923.9905	60.42	49.43	-10.99	74.00	24.57	200	294	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	Height [cm]	Angle [°]	Polarity
1	4923.9413	-10.98	161	289	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.9413	-10.98	59.71	48.73	54.00	5.27	161	289	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	62.45	37.30	-25.15	74.00	36.70	100	128	Vertical
2	1341.2927	59.36	35.45	-23.91	74.00	38.55	200	141	Vertical
3	1670.8339	58.89	36.30	-22.59	74.00	37.70	100	73	Vertical
4	2465.4332	58.75	38.39	-20.36	74.00	35.61	100	121	Vertical
5	3579.4474	55.35	39.44	-15.91	74.00	34.56	200	360	Vertical
6	4923.9905	60.22	49.23	-10.99	74.00	24.77	200	233	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	Height [cm]	Angle [°]	Polarity
1	4923.9905	-10.98	184	248	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.9905	-10.98	58.89	47.91	54.00	6.09	184	248	Vertical

Mode: TX / IEEE 802.11g
Lowest channel (2412MHz)

Date: 2021-06-19

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	62.08	36.93	-25.15	74.00	37.07	150	328	Horizontal
2	1104.0130	60.20	35.30	-24.90	74.00	38.70	150	175	Horizontal
3	1750.5938	61.22	38.68	-22.54	74.00	35.32	150	48	Horizontal
4	2388.9236	64.44	43.78	-20.66	74.00	30.22	150	316	Horizontal
5	4824.4890	54.32	43.68	-10.64	74.00	30.32	150	354	Horizontal
6	7233.0771	52.00	47.14	-4.86	74.00	26.86	150	57	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.9856	-10.64	44.78	34.14	74.00	39.86	150	242	Horizontal
2	7231.1965	-4.86	40.75	35.89	74.00	38.11	150	55	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.9856	-10.64	42.59	31.95	54.00	22.05	150	242	Horizontal
2	7231.1965	-4.86	39.81	34.95	54.00	19.05	150	55	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1103.7630	62.99	38.09	-24.90	74.00	35.91	150	16	Vertical
2	1392.0490	60.09	36.40	-23.69	74.00	37.60	150	308	Vertical
3	1488.0610	61.90	38.75	-23.15	74.00	35.25	150	314	Vertical
4	2389.6737	64.92	44.27	-20.65	74.00	29.73	150	187	Vertical
5	4830.1144	56.87	46.25	-10.62	74.00	27.75	150	229	Vertical
6	7230.2644	53.10	48.27	-4.83	74.00	25.73	150	141	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.4488	-10.62	46.46	35.84	74.00	38.16	150	218	Vertical
2	7233.3734	-4.83	42.26	37.43	74.00	36.57	150	188	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4823.4488	-10.62	44.12	33.50	54.00	20.50	150	218	Vertical
2	7233.3734	-4.83	42.01	37.18	54.00	16.82	150	188	Vertical

Mode: TX/ IEEE 802.11g
Middle channel (2437 MHz)

Date:2021-06-19

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.5011	59.40	34.25	-25.15	74.00	39.75	150	136	Horizontal
2	1104.0130	60.86	35.96	-24.90	74.00	38.04	150	320	Horizontal
3	1487.8110	58.47	35.32	-23.15	74.00	38.68	150	200	Horizontal
4	3655.3535	54.88	39.23	-15.65	74.00	34.77	150	284	Horizontal
5	4869.4918	54.99	44.27	-10.72	74.00	29.73	150	0	Horizontal
6	7756.2348	49.72	46.48	-3.24	74.00	27.52	150	55	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.5832	-10.75	43.42	32.67	74.00	41.33	150	56	Horizontal
2	7764.1900	-3.21	38.17	34.96	74.00	39.04	150	232	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.5832	-10.75	41.56	30.81	54.00	23.19	150	56	Horizontal
2	7764.1900	-3.21	37.70	34.49	54.00	19.51	150	232	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1007.7510	61.05	35.90	-25.15	74.00	38.10	150	339	Vertical
2	1103.7630	62.32	37.42	-24.90	74.00	36.58	150	307	Vertical
3	1391.7990	61.30	37.61	-23.69	74.00	36.39	150	301	Vertical
4	1488.0610	62.75	39.60	-23.15	74.00	34.40	150	294	Vertical
5	4875.1172	58.41	47.64	-10.77	74.00	26.36	150	245	Vertical
6	7319.3325	53.98	48.52	-5.46	74.00	25.48	150	245	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.5680	-10.78	48.50	37.72	74.00	36.28	150	242	Vertical
2	7305.8033	-5.63	41.94	36.31	74.00	37.69	150	242	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.5680	-10.78	45.96	35.18	54.00	18.82	150	242	Vertical
2	7305.8033	-5.63	41.60	35.97	54.00	18.03	150	242	Vertical

Mode: TX/ IEEE 802.11g
Highest channel (2462MHz)

Date: 2021-06-21

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	60.74	35.59	-25.15	74.00	38.41	150	152	Horizontal
2	1103.7630	62.88	37.98	-24.90	74.00	36.02	150	165	Horizontal
3	1392.0490	59.55	35.86	-23.69	74.00	38.14	150	127	Horizontal
4	1584.0730	60.79	37.73	-23.06	74.00	36.27	150	178	Horizontal
5	4922.9327	59.75	48.76	-10.99	74.00	25.24	150	116	Horizontal
6	7389.6494	51.87	47.17	-4.70	74.00	26.83	150	242	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.5727	-10.98	50.48	39.50	74.00	34.50	150	119	Horizontal
2	7769.7133	-3.23	38.38	35.15	74.00	38.85	150	42	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	60.59	35.44	-25.15	74.00	38.56	150	78	Vertical
2	1301.0376	59.52	35.45	-24.07	74.00	38.55	150	218	Vertical
3	1584.0730	59.03	35.97	-23.06	74.00	38.03	150	22	Vertical
4	2468.1835	57.79	37.43	-20.36	74.00	36.57	150	268	Vertical
5	4925.7454	57.84	46.86	-10.98	74.00	27.14	150	52	Vertical
6	7390.5869	50.72	46.03	-4.69	74.00	27.97	150	1	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.7258	-10.99	47.97	36.98	74.00	37.02	150	61	Vertical
2	7386.3743	-4.69	40.51	35.82	74.00	38.18	150	87	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4923.7258	-10.99	45.50	34.51	54.00	19.49	150	61	Vertical
2	7386.3743	-4.69	40.26	35.57	54.00	18.43	150	87	Vertical

Mode: TX / IEEE 802.11n HT20
Lowest channel (2412MHz)

Date: 2021-06-21

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	61.85	36.70	-25.15	74.00	37.30	150	168	Horizontal
2	1488.0610	62.05	38.90	-23.15	74.00	35.10	150	9	Horizontal
3	1767.0959	61.95	39.55	-22.40	74.00	34.45	150	314	Horizontal
4	2388.9236	69.07	48.41	-20.66	74.00	25.59	150	187	Horizontal
5	4830.1144	55.83	45.21	-10.62	74.00	28.79	150	117	Horizontal
6	7232.1395	53.47	48.62	-4.85	74.00	25.38	150	245	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4812.7538	-10.64	43.10	32.46	74.00	41.54	150	105	Horizontal
2	7233.5859	-4.86	42.35	37.49	74.00	36.51	150	257	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4812.7538	-10.64	41.42	30.78	54.00	23.22	150	105	Horizontal
2	7233.5859	-4.86	42.13	37.27	54.00	16.73	150	257	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	60.95	35.80	-25.15	74.00	38.20	150	152	Vertical
2	1103.7630	60.53	35.63	-24.90	74.00	38.37	150	346	Vertical
3	1766.8459	58.85	36.44	-22.41	74.00	37.56	150	197	Vertical
4	2389.1736	68.54	47.88	-20.66	74.00	26.12	150	324	Vertical
5	4822.6139	56.08	45.43	-10.65	74.00	28.57	150	268	Vertical
6	7234.0146	53.35	48.48	-4.87	74.00	25.52	150	228	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4812.5829	-10.65	45.40	34.75	74.00	39.25	150	89	Vertical
2	7232.0720	-4.83	41.48	36.65	74.00	37.35	150	241	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4812.5829	-10.65	44.18	33.53	54.00	20.47	150	89	Vertical
2	7232.0720	-4.83	41.02	36.19	54.00	17.81	150	241	Vertical

Mode: TX/ IEEE 802.11n HT20
Middle channel (2437 MHz)

Date: 2021-06-21

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	60.53	35.38	-25.15	74.00	38.62	150	324	Horizontal
2	1104.0130	60.86	35.96	-24.90	74.00	38.04	150	311	Horizontal
3	1745.8432	66.03	43.49	-22.54	74.00	30.51	150	89	Horizontal
4	3591.5995	54.44	38.95	-15.49	74.00	35.05	150	205	Horizontal
5	4879.8050	57.08	46.27	-10.81	74.00	27.73	150	69	Horizontal
6	7220.8888	51.04	46.30	-4.74	74.00	27.70	150	189	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.0697	-10.77	47.65	36.88	74.00	37.12	150	64	Horizontal
2	7211.5077	-4.70	39.03	34.33	74.00	39.67	150	202	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.0697	-10.77	45.54	34.77	54.00	19.23	150	64	Horizontal
2	7211.5077	-4.70	38.56	33.86	54.00	20.14	150	202	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	61.05	35.90	-25.15	74.00	38.10	150	91	Vertical
2	1104.0130	62.02	37.12	-24.90	74.00	36.88	150	170	Vertical
3	1488.0610	62.36	39.21	-23.15	74.00	34.79	150	97	Vertical
4	2428.9286	58.91	38.48	-20.43	74.00	35.52	150	285	Vertical
5	4878.8674	60.53	49.73	-10.80	74.00	24.27	150	92	Vertical
6	7315.5822	52.53	47.01	-5.52	74.00	26.99	150	331	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.8176	-10.80	48.97	38.17	74.00	35.83	150	48	Vertical
2	7304.0967	-5.52	41.13	35.61	74.00	38.39	150	13	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.8176	-10.80	46.84	36.04	54.00	17.96	150	48	Vertical
2	7304.0967	-5.52	40.81	35.29	54.00	18.71	150	13	Vertical

Mode: TX/ IEEE 802.11n HT20

Highest channel (2462MHz)

Date: 2021-06-21

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1007.5009	60.39	35.24	-25.15	74.00	38.76	150	149	Horizontal
2	1104.0130	61.26	36.36	-24.90	74.00	37.64	150	284	Horizontal
3	1772.5966	58.26	35.90	-22.36	74.00	38.10	150	149	Horizontal
4	2469.4337	57.86	37.50	-20.36	74.00	36.50	150	245	Horizontal
5	4925.7454	55.76	44.78	-10.98	74.00	29.22	150	219	Horizontal
6	7797.4873	50.75	47.57	-3.18	74.00	26.43	150	84	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.6125	-10.99	45.94	34.95	74.00	39.05	150	247	Horizontal
2	7769.4943	-3.18	38.37	35.19	74.00	38.81	150	2	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.6125	-10.99	43.83	32.84	54.00	21.16	150	247	Horizontal
2	7769.4943	-3.18	38.14	34.96	54.00	19.04	150	2	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1104.2630	62.23	37.33	-24.90	74.00	36.67	150	109	Vertical
2	1488.3110	60.64	37.49	-23.15	74.00	36.51	150	84	Vertical
3	1583.8230	62.27	39.21	-23.06	74.00	34.79	150	338	Vertical
4	2469.9337	58.71	38.35	-20.36	74.00	35.65	150	247	Vertical
5	4924.8078	59.67	48.68	-10.99	74.00	25.32	150	52	Vertical
6	7392.4620	51.86	47.18	-4.68	74.00	26.82	150	36	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4922.1484	-10.98	48.94	37.96	74.00	36.04	150	54	Vertical
2	7391.5010	-4.68	40.24	35.56	74.00	38.44	150	354	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4922.1484	-10.98	46.78	35.80	54.00	18.20	150	54	Vertical
2	7391.5010	-4.68	39.89	35.21	54.00	18.79	150	354	Vertical

Mode: TX / IEEE 802.11n HT40
Lowest channel (2422MHz)

Date: 2021-06-21

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	60.62	35.47	-25.15	74.00	38.53	150	141	Horizontal
2	1295.5369	59.92	35.83	-24.09	74.00	38.17	150	199	Horizontal
3	2387.9235	71.84	51.17	-20.67	74.00	22.83	150	268	Horizontal
4	3595.3497	54.94	39.59	-15.35	74.00	34.41	150	122	Horizontal
5	4842.3026	53.03	42.46	-10.57	74.00	31.54	150	320	Horizontal
6	7389.6494	51.50	46.80	-4.70	74.00	27.20	150	304	Horizontal

PK Final Data List									
NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.1427	-10.57	42.25	31.68	74.00	42.32	150	61	Horizontal
2	7200.6996	-4.59	38.89	34.30	74.00	39.70	150	1	Horizontal
3	2388.4250	-20.67	52.96	32.29	74.00	41.71	150	73	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.1427	-10.57	40.06	29.49	54.00	24.51	150	61	Horizontal
2	7200.6996	-4.59	38.77	34.18	54.00	19.82	150	1	Horizontal
3	2388.4250	-20.67	50.70	30.03	54.00	23.97	150	73	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.2510	61.60	36.45	-25.15	74.00	37.55	150	110	Vertical
2	1103.7630	62.06	37.16	-24.90	74.00	36.84	150	160	Vertical
3	1584.0730	61.90	38.84	-23.06	74.00	35.16	150	356	Vertical
4	2388.1735	75.69	55.02	-20.67	74.00	18.98	150	338	Vertical
5	4835.7397	53.35	42.75	-10.60	74.00	31.25	150	100	Vertical
6	7251.8282	51.50	46.43	-5.07	74.00	27.57	150	313	Vertical

PK Final Data List									
NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0660	-10.56	43.79	33.23	74.00	40.77	150	320	Vertical
2	7258.7900	-5.07	39.60	34.53	74.00	39.47	150	6	Vertical
3	2388.8183	-20.67	54.38	33.71	74.00	40.29	150	128	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dB μ V/m]	AV Value [dB μ V/m]	AV Limit [dB μ V/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844.0660	-10.56	41.41	30.85	54.00	23.15	150	320	Vertical
2	7258.7900	-5.07	39.28	34.21	54.00	19.79	150	6	Vertical
3	2388.8183	-20.67	51.94	31.27	54.00	22.73	150	128	Vertical

Mode: TX/ IEEE 802.11n HT40
Middle channel (2437 MHz)

Date: 2021-06-21

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	60.30	35.15	-25.15	74.00	38.85	150	312	Horizontal
2	1104.2630	61.30	36.40	-24.90	74.00	37.60	150	148	Horizontal
3	1775.8470	58.37	36.04	-22.33	74.00	37.96	150	274	Horizontal
4	2620.7026	58.75	38.93	-19.82	74.00	35.07	150	0	Horizontal
5	4868.5543	52.29	41.58	-10.71	74.00	32.42	150	242	Horizontal
6	7718.7324	50.28	46.50	-3.78	74.00	27.50	150	123	Horizontal

PK Final Data List									
NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.2048	-10.76	43.00	32.24	74.00	41.76	150	318	Horizontal
2	7754.8561	-3.78	37.99	34.21	74.00	39.79	150	8	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4873.2048	-10.76	41.22	30.46	54.00	23.54	150	318	Horizontal
2	7754.8561	-3.78	37.85	34.07	54.00	19.93	150	8	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	61.12	35.97	-25.15	74.00	38.03	150	249	Vertical
2	1104.0130	62.26	37.36	-24.90	74.00	36.64	150	166	Vertical
3	1488.0610	62.49	39.34	-23.15	74.00	34.66	150	97	Vertical
4	2389.1736	61.35	40.69	-20.66	74.00	33.31	150	84	Vertical
5	4871.3670	55.49	44.76	-10.73	74.00	29.24	150	45	Vertical
6	7203.0752	50.66	46.11	-4.55	74.00	27.89	150	45	Vertical

PK Final Data List									
NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.2438	-10.74	45.45	34.71	74.00	39.29	150	48	Vertical
2	7214.8290	-4.62	38.88	34.26	74.00	39.74	150	194	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4872.2438	-10.74	43.38	32.64	54.00	21.36	150	48	Vertical
2	7214.8290	-4.62	38.67	34.05	54.00	19.95	150	194	Vertical

Mode: TX/ IEEE 802.11n HT40

Highest channel (2452MHz)

Date: 2021-06-21

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1008.0010	59.39	34.24	-25.15	74.00	39.76	150	309	Horizontal
2	1104.0130	61.80	36.90	-24.90	74.00	37.10	150	160	Horizontal
3	1488.0610	59.30	36.15	-23.15	74.00	37.85	150	140	Horizontal
4	1749.5937	61.05	38.51	-22.54	74.00	35.49	150	140	Horizontal
5	4900.4313	55.09	44.10	-10.99	74.00	29.90	150	93	Horizontal
6	7744.0465	50.59	47.24	-3.35	74.00	26.76	150	14	Horizontal

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4903.3630	-10.99	45.03	34.04	74.00	39.96	150	105	Horizontal
2	7777.5008	-3.35	38.33	34.98	74.00	39.02	150	293	Horizontal

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4903.3630	-10.99	42.98	31.99	54.00	22.01	150	105	Horizontal
2	7777.5008	-3.35	38.02	34.67	54.00	19.33	150	293	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1104.0130	62.58	37.68	-24.90	74.00	36.32	150	80	Vertical
2	1296.0370	60.89	36.80	-24.09	74.00	37.20	150	332	Vertical
3	1392.0490	61.13	37.44	-23.69	74.00	36.56	150	326	Vertical
4	1487.8110	62.57	39.42	-23.15	74.00	34.58	150	92	Vertical
5	4902.3064	55.41	44.42	-10.99	74.00	29.58	150	7	Vertical
6	7773.1108	50.76	47.54	-3.22	74.00	26.46	150	7	Vertical

PK Final Data List

NO.	Freq. [MHz]	Factor [dB]	PK Reading [dBμV/m]	PK Value [dBμV/m]	PK Limit [dBμV/m]	PK Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.4634	-10.99	45.26	34.27	74.00	39.73	150	61	Vertical
2	7775.9091	-3.22	38.29	35.07	74.00	38.93	150	355	Vertical

AV Final Data List

NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904.4634	-10.99	43.16	32.17	54.00	21.83	150	61	Vertical
2	7775.9091	-3.22	37.89	34.67	54.00	19.33	150	355	Vertical

Above 18GHz-26.5GHz:

Pre-scan all modes and recorded the worst case results in this report (antenna 1: IEEE 802.11b)

Mode: TX / IEEE 802.11b

Lowest channel (2412MHz)

Date: 2021-06-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18393.9750	59.35	47.82	-11.53	83.50	35.68	150	337	Horizontal
2	19401.6500	58.92	47.95	-10.97	83.50	35.55	150	31	Horizontal
3	21085.0750	58.98	48.69	-10.29	83.50	34.81	150	162	Horizontal
4	22778.7000	56.43	47.34	-9.09	83.50	36.16	150	188	Horizontal
5	23979.3250	56.18	47.90	-8.28	83.50	35.60	150	242	Horizontal
6	25106.0000	56.25	48.50	-7.75	83.50	35.00	150	268	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18359.9750	59.98	48.44	-11.54	83.50	35.06	150	215	Vertical
2	19798.1750	58.65	47.78	-10.87	83.50	35.72	150	154	Vertical
3	21128.8500	59.02	48.73	-10.29	83.50	34.77	150	189	Vertical
4	21714.0750	58.42	48.49	-9.93	83.50	35.01	150	93	Vertical
5	24059.6500	55.68	47.43	-8.25	83.50	36.07	150	267	Vertical
6	25828.0750	56.27	48.11	-8.16	83.50	35.39	150	354	Vertical

Mode: TX / IEEE 802.11b
Moddle channel (2437MHz)

Date: 2021-06-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18348.0750	60.34	48.79	-11.55	83.50	34.71	150	233	Horizontal
2	19771.4000	58.31	47.44	-10.87	83.50	36.06	150	346	Horizontal
3	20610.7750	58.83	48.41	-10.42	83.50	35.09	150	189	Horizontal
4	21691.9750	56.78	46.85	-9.93	83.50	36.65	150	328	Horizontal
5	23541.5750	56.79	48.10	-8.69	83.50	35.40	150	23	Horizontal
6	25632.5750	56.68	48.75	-7.93	83.50	34.75	150	137	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18343.8250	59.49	47.94	-11.55	83.50	35.56	150	7	Vertical
2	20552.5500	59.47	49.01	-10.46	83.50	34.49	150	337	Vertical
3	21116.9500	58.87	48.58	-10.29	83.50	34.92	150	120	Vertical
4	22987.3750	56.40	47.46	-8.94	83.50	36.04	150	16	Vertical
5	25177.8250	56.37	48.71	-7.66	83.50	34.79	150	16	Vertical
6	25767.3000	56.48	48.39	-8.09	83.50	35.11	150	146	Vertical

Mode: TX / IEEE 802.11b
Highest channel (2462MHz)

Date:2021-06-30

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18362.9500	59.40	47.86	-11.54	83.50	35.64	150	241	Horizontal
2	19872.5500	58.09	47.23	-10.86	83.50	36.27	150	267	Horizontal
3	21109.3000	58.65	48.36	-10.29	83.50	35.14	150	302	Horizontal
4	21793.1250	57.00	47.06	-9.94	83.50	36.44	150	359	Horizontal
5	22998.4250	56.49	47.55	-8.94	83.50	35.95	150	32	Horizontal
6	25140.4250	56.23	48.52	-7.71	83.50	34.98	150	346	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18325.9750	59.67	48.12	-11.55	83.50	35.38	150	1	Vertical
2	20472.6500	59.21	48.70	-10.51	83.50	34.80	150	14	Vertical
3	21094.8500	58.38	48.09	-10.29	83.50	35.41	150	318	Vertical
4	22556.4250	56.79	47.47	-9.32	83.50	36.03	150	171	Vertical
5	24014.1750	56.13	47.87	-8.26	83.50	35.63	150	309	Vertical
6	25732.4500	56.47	48.42	-8.05	83.50	35.08	150	360	Vertical

7. 6DB BANDWIDTH

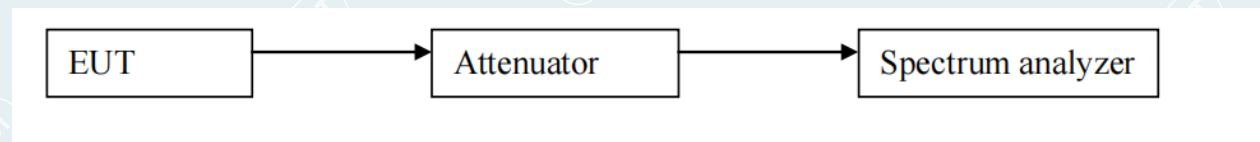
7.1.LIMITS

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.2.TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Set resolution bandwidth (RBW) = 100kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
- 3) Repeat above procedures until all frequencies measured were complete.

7.3.TEST SETUP

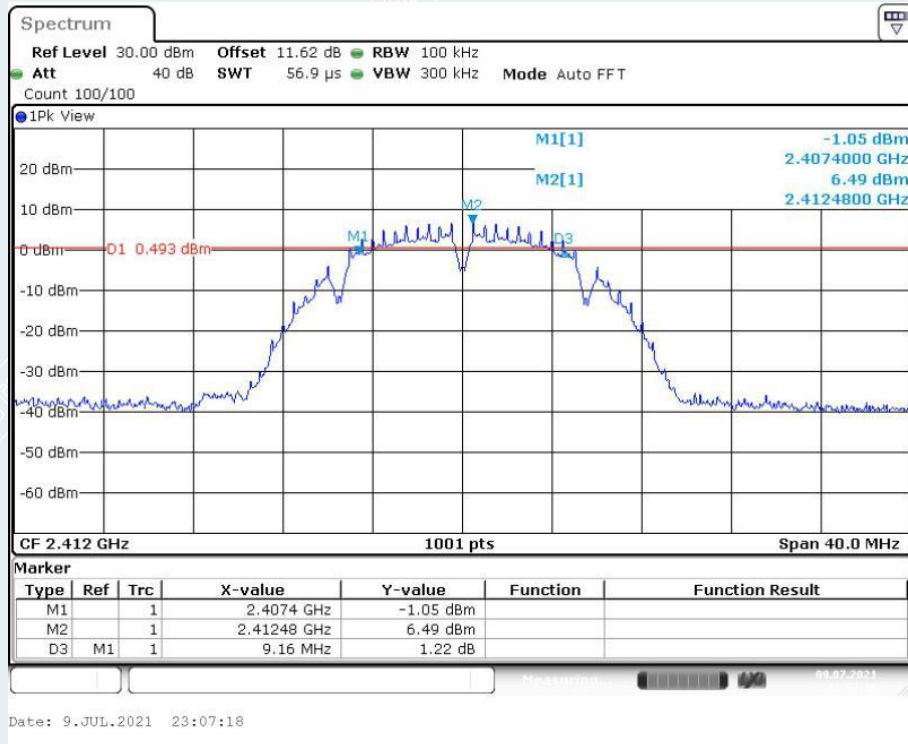


7.4.TEST RESULTS

TestMode	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	2412	9.160	2407.400	2416.560	0.5	PASS
	2437	10.080	2431.960	2442.040	0.5	PASS
	2462	9.600	2456.960	2466.560	0.5	PASS
802.11g	2412	16.400	2403.800	2420.200	0.5	PASS
	2437	16.400	2428.800	2445.200	0.5	PASS
	2462	16.400	2453.800	2470.200	0.5	PASS
802.11n HT20	2412	17.120	2403.440	2420.560	0.5	PASS
	2437	17.120	2428.440	2445.560	0.5	PASS
	2462	17.160	2453.440	2470.600	0.5	PASS
802.11n HT40	2422	35.520	2404.160	2439.680	0.5	PASS
	2437	35.360	2419.320	2454.680	0.5	PASS
	2452	35.520	2434.160	2469.680	0.5	PASS

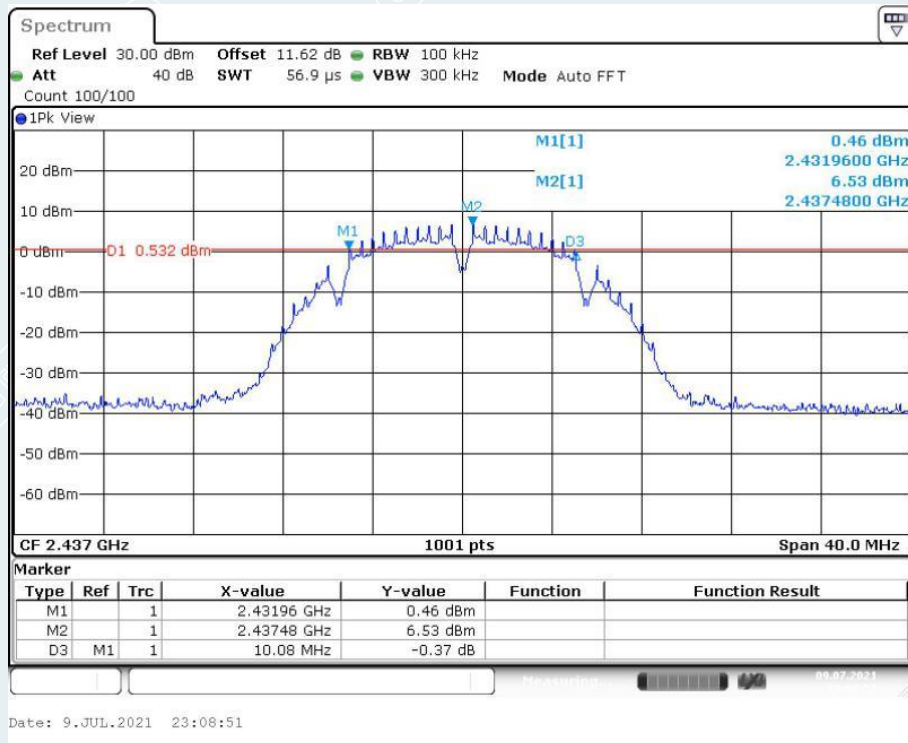
802.11b mode:

Channel 2412MHz

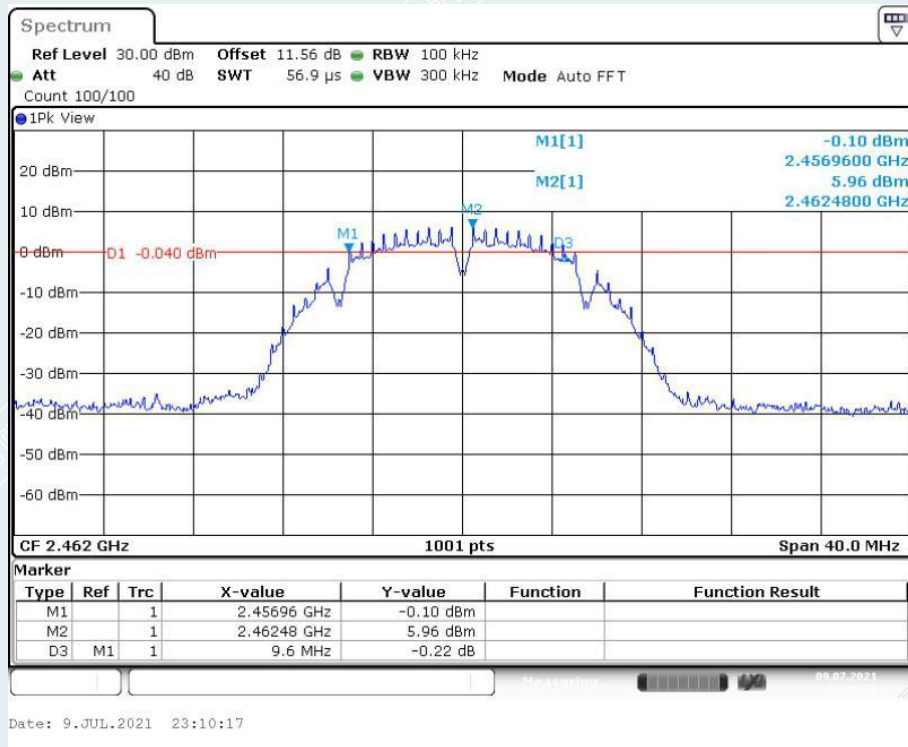


802.11b mode:

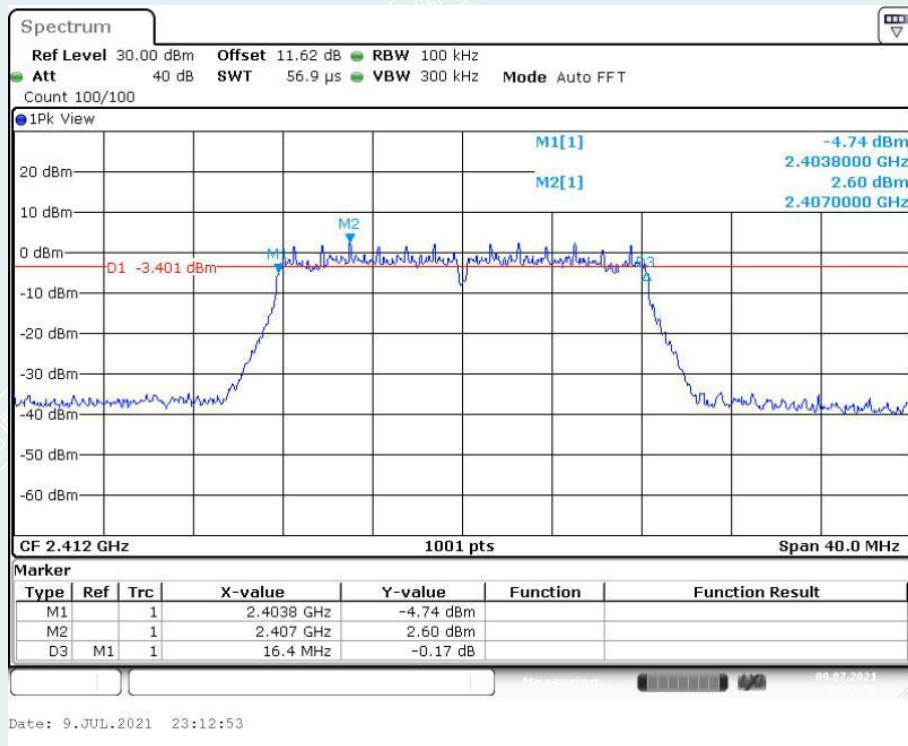
Channel 2437MHz



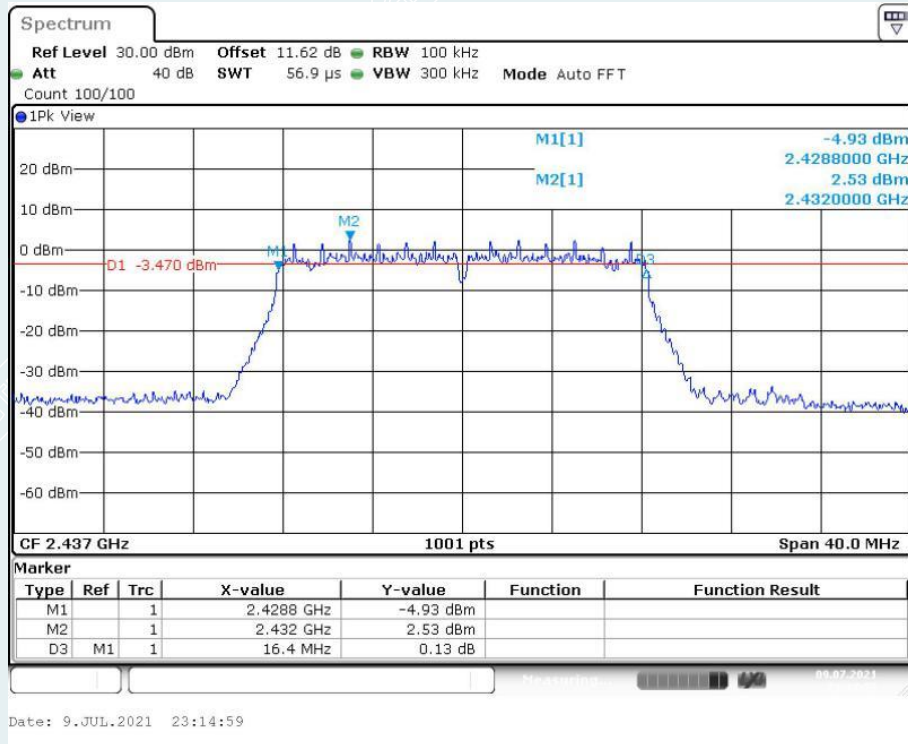
802.11b mode:
Channel 2462MHz



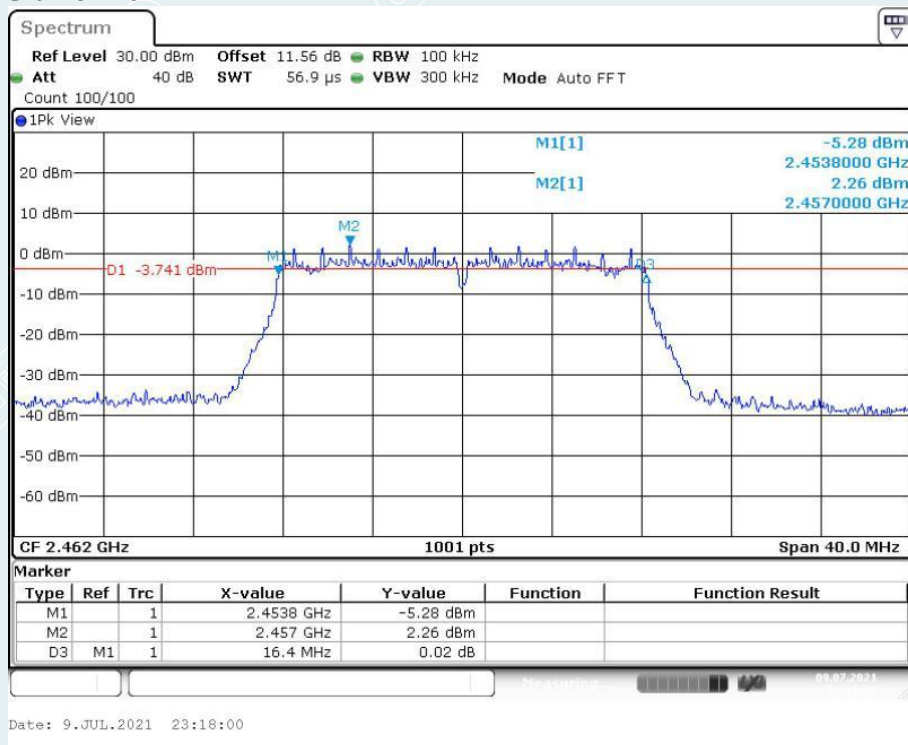
802.11g mode:
Channel 2412MHz



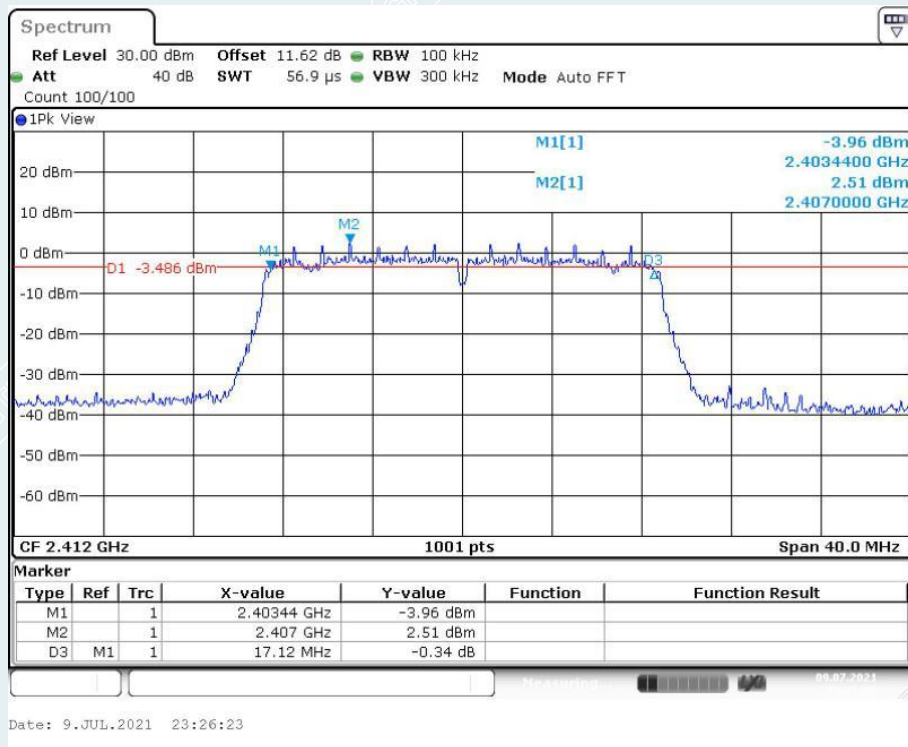
802.11g mode:
Channel 2437MHz



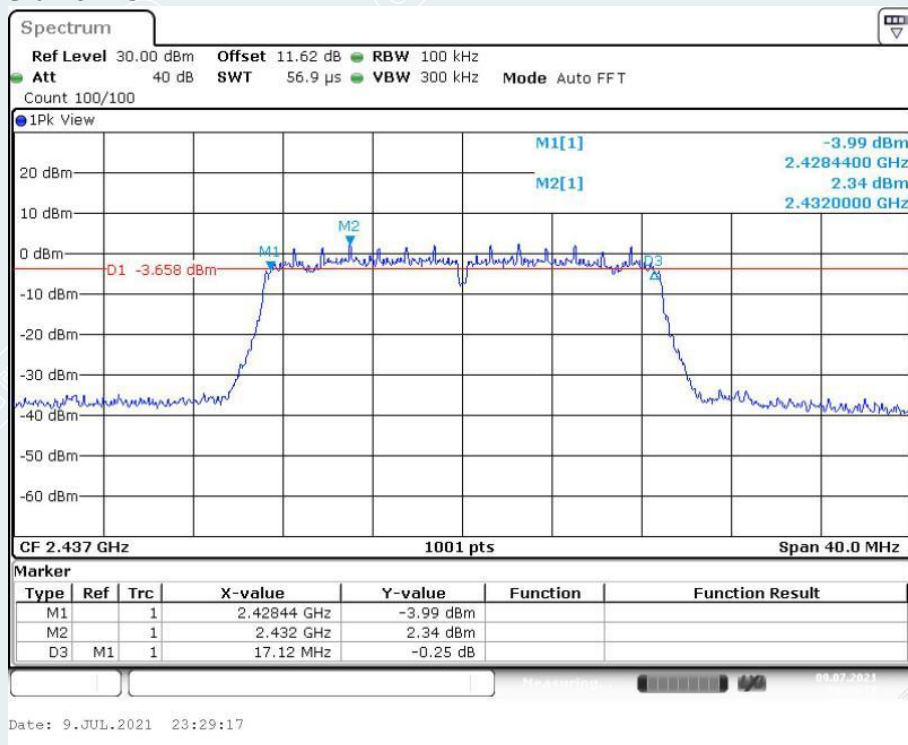
802.11g mode:
Channel 2462MHz



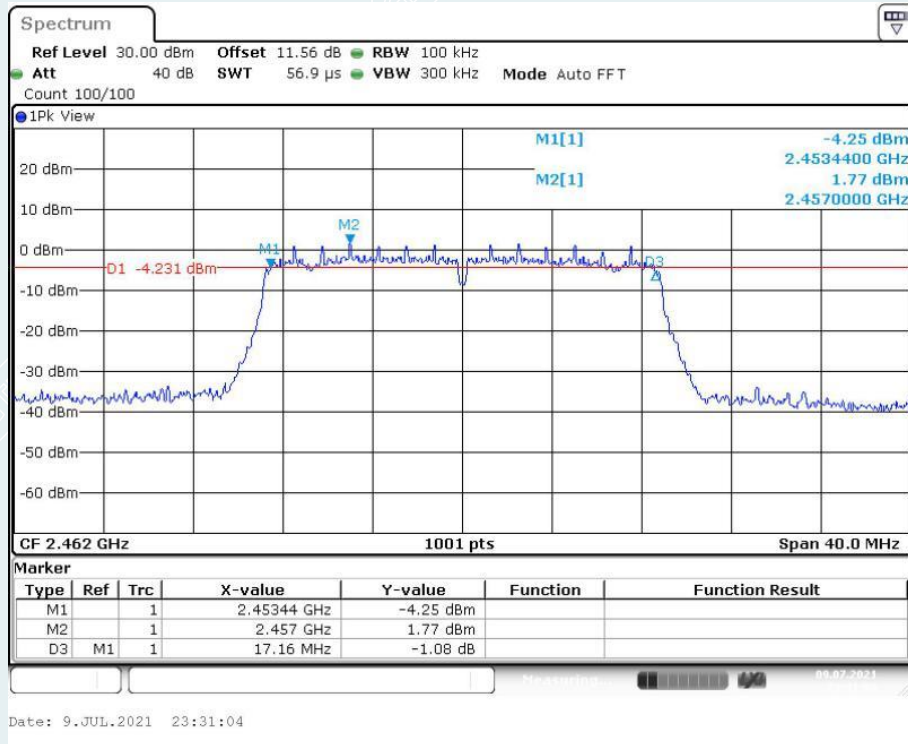
802.11n HT20 mode:
Channel 2412MHz



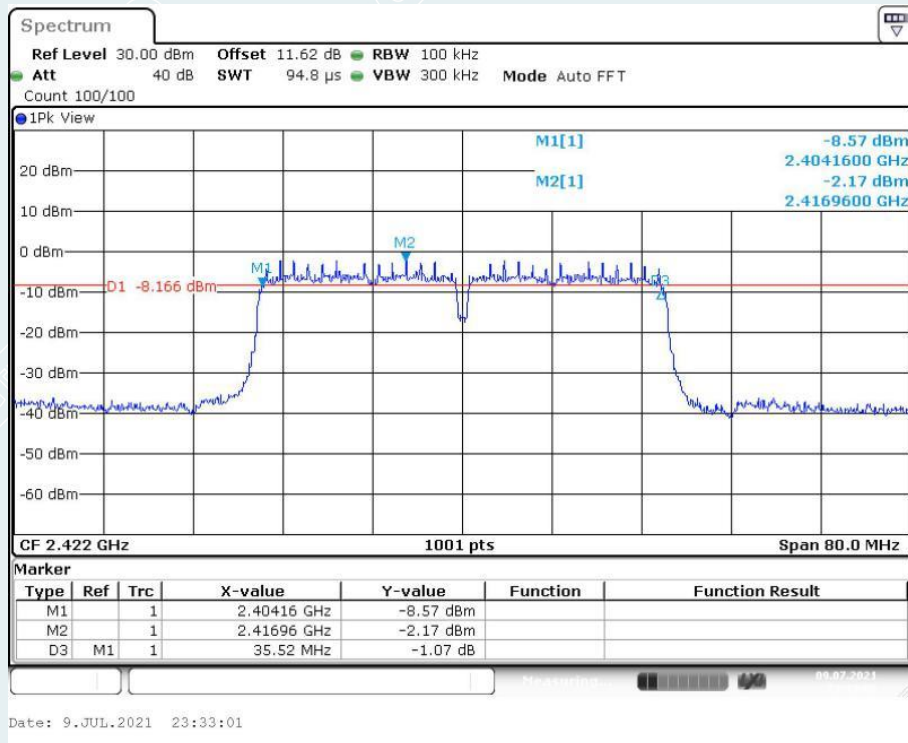
802.11n HT20 mode:
Channel 2437MHz



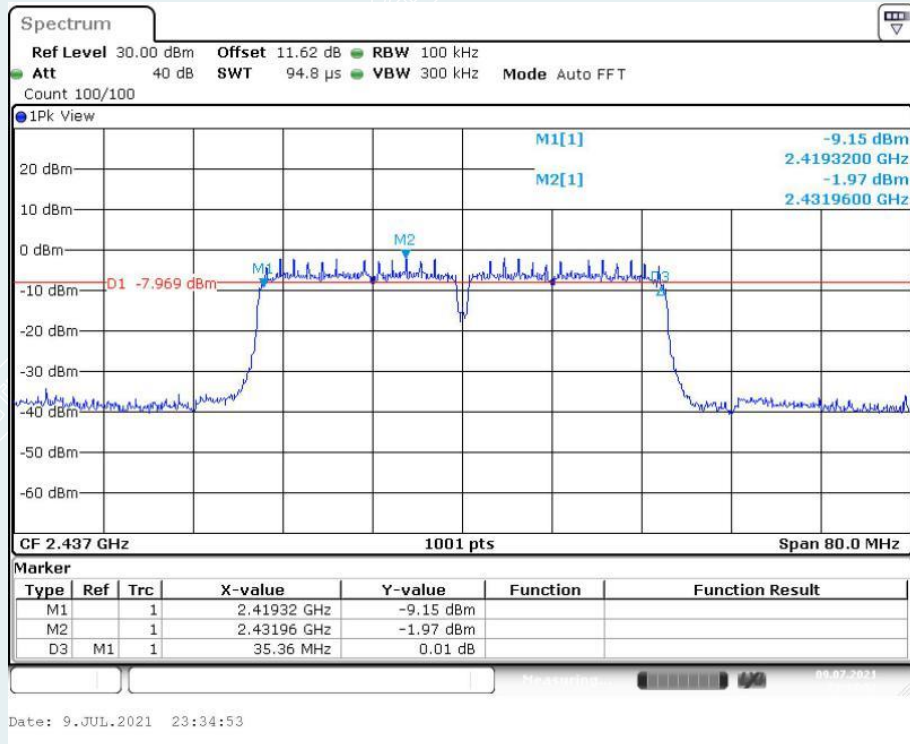
802.11n HT20 mode:
Channel 2462MHz



802.11n HT40 mode:
Channel 2422MHz



802.11n HT40 mode:
Channel 2437MHz



802.11n HT40 mode:
Channel 2452MHz

