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RADIO TESTREPORT

Report No.: STS1903192W01

Issued for

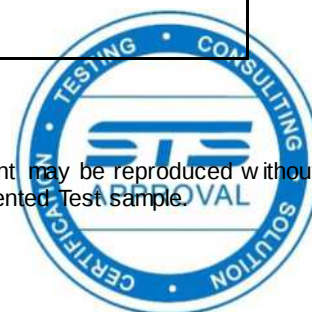
VTech Electronics Limited

23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road,
Tai Po, Hong Kong

Product Name:	KidiBuzz™ G2
Brand Name:	vtech
Model Name:	1866
Series Model:	N/A
FCC ID:	G2R-1866
IC ID:	1135D-1866
HVIN:	1866
Test Standard:	CFR47 FCC Part 15: Subpart C Section 15.247
	CFR47 FCC Part 15: Subpart C Section 15.207
	CFR47 FCC Part 15: Subpart C Section 15.209
	CFR47 FCC Part 15: Subpart B Section 15.107
	CFR47 FCC Part 15: Subpart B Section 15.109
	RSS-247 Issue 2 February 2017
	RSS-Gen Issue 5 April 2018
	ICES-003 Issue 6 January 2016

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**TEST RESULT CERTIFICATION**

Applicant's Name : **VTech Electronics Limited**
Address : 23/F, Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong
Manufacture's Name : **VTech (Dongguan) Electronics Ltd**
Address : Sam Tuen Management Zone, Hou Jie, Dongguan, Guangdong, China

Product Description

Product Name : KidiBuzz™ G2
Brand Name : vtech
Model Name : 1866
Series Model : N/A

Test Standards : CFR47 FCC Part 15: Subpart C Section 15.247
CFR47 FCC Part 15: Subpart C Section 15.207
CFR47 FCC Part 15: Subpart C Section 15.209
CFR47 FCC Part 15: Subpart B Section 15.107
CFR47 FCC Part 15: Subpart B Section 15.109
RSS-247 Issue 2 February 2017
RSS-Gen Issue 5 April 2018
ICES-003 Issue 6 January 2016

Test Procedure : ANSI C63.10: 2013, ANSI C63.4: 2014

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC 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 : 08 Mar. 2019 -14 Mar. 2019

Date of Issue : 14 Mar. 2019

Test Result : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sunday Hu)

Authorized Signatory :

(Vita Li)





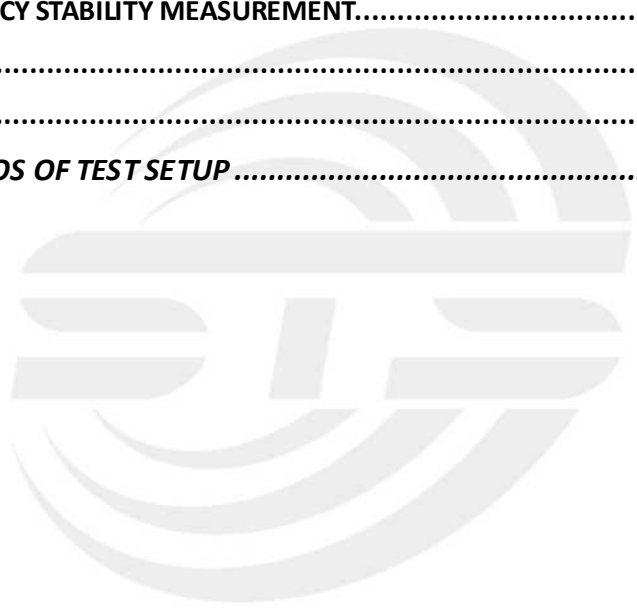
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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	14 Mar. 2019	STS1903192W01	ALL	Initial Issue





1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

KDB 558074 D01 15.247 Meas Guidance v05r02

FCC Part 15, Subpart C RSS-247 Issue 2			
Standard Section	Test Item	Judgment	Remark
FCC Part 15.207(a) RSS-Gen Clause 8.8	Conducted Emission	PASS	
FCC Part 15.247(a)(2) RSS-247 Clause 5.2(a)	6dB Bandwidth	PASS	
RSS-Gen Clause 6.7	99% Bandwidth	PASS	
FCC Part 15.247(b)(3) RSS-247 Clause 5.4(d)	Output Power	PASS	
FCC Part 15.247(d) RSS-247 Clause 3.3	Radiated Spurious Emission	PASS	
FCC Part 15.247(d) RSS-247 Clause 5.5	Conducted Spurious & Band Edge Emission	PASS	
FCC Part 15.247(e) RSS-247 Clause 5.2(b)	Power Spectral Density	PASS	
FCC Part 15.205	Restricted Band Edge Emission	PASS	
FCC Part 15.247(d)&15.209(a) RSS-247 Clause 5.5	Band Edge Emission	PASS	
FCC Part 15.247(b)(4) &15.203	Antenna Requirement	PASS	
RSS-Gen Clause 6.11	Frequency Stability	PASS	

FCC Part 15, Subpart B ICES-003 Issue 6			
Standard Section	Test Item	Judgment	Remark
FCC Part 15.107(a) ICES-003	Conducted Emission	PASS	Class B limit
FCC Part 15.109(a) ICES-003	Radiated Emission	PASS	Class B limit

NOTE:

- 1) 'NA' denotes test is not applicable in this test report
- 2) All tests were performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.



1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration No.: CN1203

A2LA Certificate No.: 4338.01

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	RF output power, conducted	$\pm 0.71\text{dB}$
2	Unwanted Emissions, conducted	$\pm 0.63\text{dB}$
3	All emissions, radiated 30-200MHz	$\pm 3.43\text{dB}$
4	All emissions, radiated 200MHz-1GHz	$\pm 3.57\text{dB}$
5	All emissions, radiated >1G	$\pm 4.13\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 3.18\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 2.70\text{dB}$



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	KidiBuzz™ G2	
Trade Name	vtech	
Model Name	1866	
Series Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a KidiBuzz™ G2 which supports Wi-Fi 802.11a/b/g/n with DFS wireless technologies. This report for Wi-Fi 802.11b/g/n operation only.	
	Operation Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20) 2422 - 2452 MHz for 802.11n(HT40)
	Modulation Type:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
	Bit Rate of Transmitter:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n
	Number of Channel:	11 channels for 802.11b/g/n(HT20) 7 channels for 802.11n(HT40)
	Antenna Designation:	Please see Note 4
	Antenna Gain(dBi):	0 dBi
	Duty Cycle:	>98%
Channel List	Please refer to the Note 2.	
Adapter	Model: VT00EUS05150 (VTech) Input: AC100-240V 50/60Hz 0.2A Output: DC 5V@1500mA	
Battery	Model: SP605062 (VTech) DC 3.7V@2300mAh/8.51Wh Li-ion battery	
Test Software	SecureCRT	
RF Power Setting TEST Software (power class)	1	
Connecting I/O Port(s)	Please refer to the User's Manual	



Note:

- 1 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

RF Channel and Frequency of Wi-Fi 802.11 b/g/n			
802.11b/g/n(HT20)		802.11n(HT40)	
RF Channel	Freq.(MHz)	RF Channel	Freq.(MHz)
01	2412	03	2422
02	2417	04	2427
03	2422	05	2432
04	2427	06	2437
05	2432	07	2442
06	2437	08	2447
07	2442	09	2452
08	2447	/	/
09	2452	/	/
10	2457	/	/
11	2462	/	/

- 3 Note:

- 1) In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test;
- 2) Test frequencies are low channel: 2412 MHz, middle channel: 2437 MHz and high channel: 2462 MHz for 802.11b/g/n(HT20)
- 3) Test frequencies are low channel: 2422 MHz, middle channel: 2437 MHz and high channel: 2452 MHz for 802.11n(HT40)

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	vtech	1866	PCB Antenna	N/A	0	WLAN Antenna



2.2 DESCRIPTION OF THE TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH Low	1 Mbps
Mode 2	TX IEEE 802.11b CH Middle	1 Mbps
Mode 3	TX IEEE 802.11b CH High	1 Mbps
Mode 4	TX IEEE 802.11g CH Low	6 Mbps
Mode 5	TX IEEE 802.11g CH Middle	6 Mbps
Mode 6	TX IEEE 802.11g CH High	6 Mbps
Mode 7	TX IEEE 802.11n(HT20) CH Low	MCS 0
Mode 8	TX IEEE 802.11n(HT20) CH Middle	MCS 0
Mode 9	TX IEEE 802.11n(HT20) CH High	MCS 0
Mode 10	TX IEEE 802.11n(HT40) CH Low	MCS 0
Mode 11	TX IEEE 802.11n(HT40) CH Middle	MCS 0
Mode 12	TX IEEE 802.11n(HT40) CH High	MCS 0
Mode 13	Wi-Fi transmitting mode	/
Mode 14	Data transmitting mode	/
Mode 15	Recording mode	/
Mode 16	Replaying mode	/

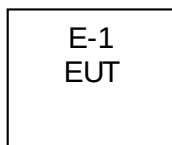
Note:

- 1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- 2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation , and the worst case of 120V/60Hz is shown in the report
- 3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.

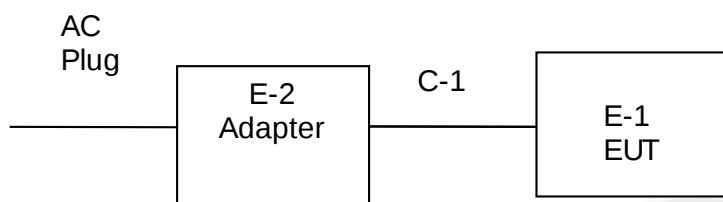


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiation Test Set



Conduction Test Set



2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

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.

Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-2	Adapter	LeapFrog	VT00EUS05150	N/A	Accessories Equipment

Support units

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
1	SD Card	N/A	N/A	N/A	-
2	Earphone	OPPO	HiFi	N/A	1.2M
3	Personal computer	HP	TPN 1119	5CG6230MY	N/A

Cable

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Adapter DC Cable	NO	150cm	N/A
C-2	USB Cable	YES	60cm	N/A

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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.



2.5 EQUIPMENTS LIST

Radiation Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY51110105	2019.03.02	2020.03.01
Active loop Antenna	ZHINAN	ZN30900C	16035	2018.03.11	2021.03.10
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2018.10.13	2019.10.12
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A

Conduction Test Equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
Test Receiver	R&S	ESCI	101427	2018.10.13	2019.10.12
LISN	R&S	ENV216	101242	2018.10.11	2019.10.10
LISN	EMCO	3810/2NM	23625	2018.10.11	2019.10.10
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
USB RF power sensor	DARE	RPR3006W	15100041SNO03	2018.10.13	2019.10.12
Signal Analyzer	Agilent	N9020A	MY49100060	2018.10.13	2019.10.12
Temperature & Humidity	HH660	Mieo	N/A	2018.10.11	2019.10.10

Note:

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.



3 EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a), 107(a), RSS-Gen Table3 and ICES-003 Table2 limit in the table below has to be followed. This item was performed according to the procedures in ANSI C63.10: 2013 and ANSI C63.4: 2014.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- 1) The tighter limit applies at the band edges.
- 2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

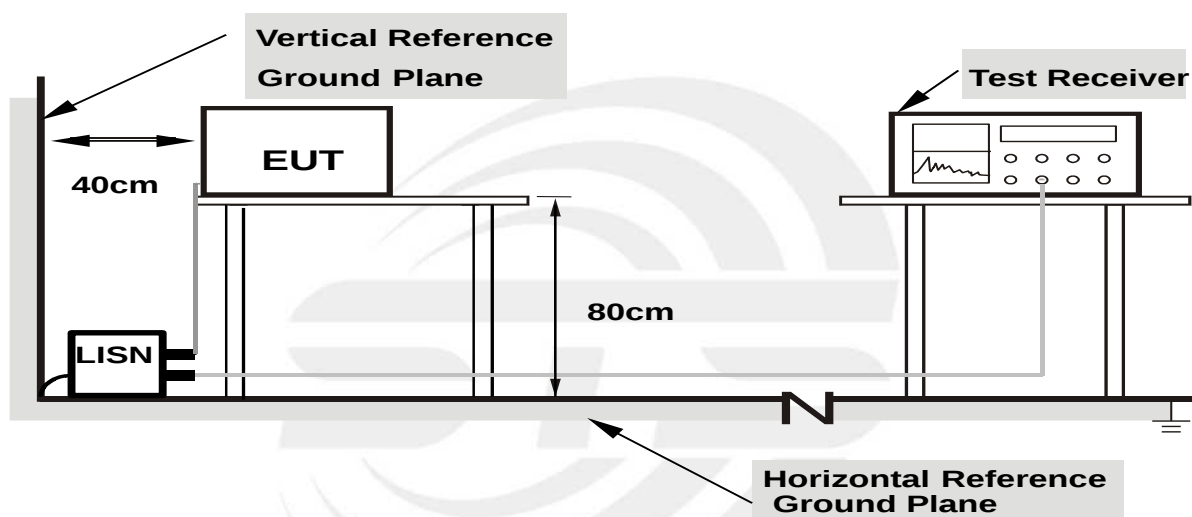
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

3.1.2 TEST PROCEDURE

- The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected 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.
- 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 40 cm long.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



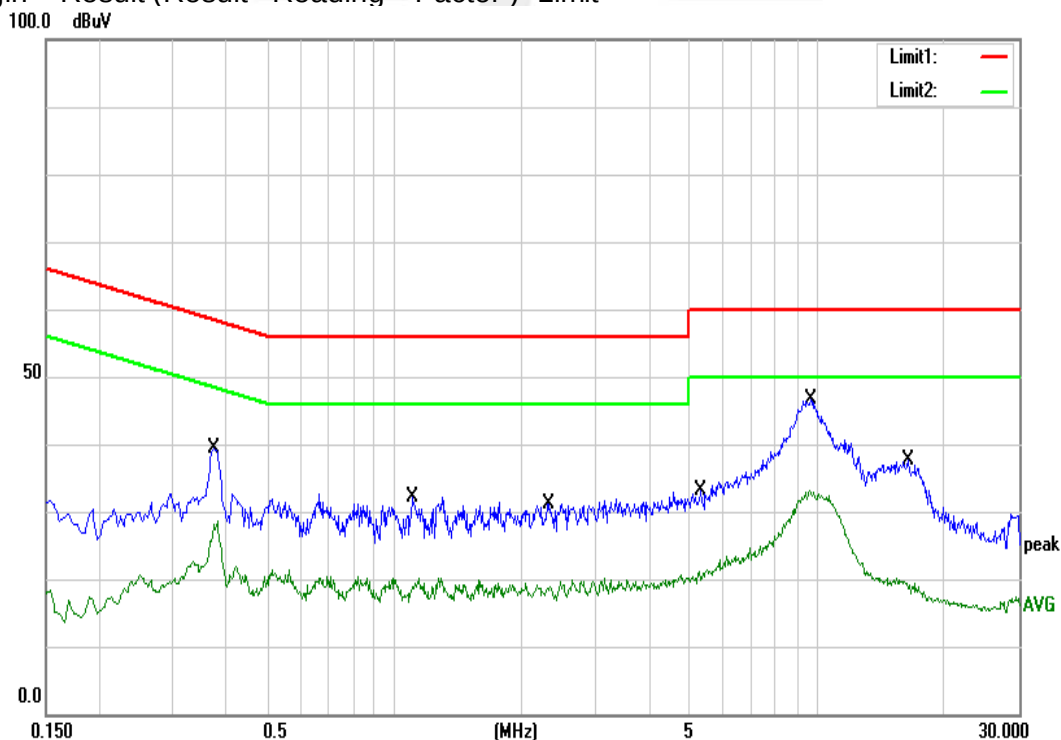
3.1.5 TEST RESULT

Temperature:	22°C	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.3740	39.48	0.00	39.48	58.41	-18.93	QP
0.3740	28.66	0.00	28.66	48.41	-19.75	AVG
1.1020	32.23	0.00	32.23	56.00	-23.77	QP
1.1020	20.20	0.00	20.20	46.00	-25.80	AVG
2.3300	31.22	0.00	31.22	56.00	-24.78	QP
2.3300	19.79	0.00	19.79	46.00	-26.21	AVG
5.3300	33.09	0.00	33.09	60.00	-26.91	QP
5.3300	23.43	0.00	23.43	50.00	-26.57	AVG
9.6700	46.63	0.00	46.63	60.00	-13.37	QP
9.6700	33.18	0.00	33.18	50.00	-16.82	AVG
16.4740	37.65	0.00	37.65	60.00	-22.35	QP
16.4740	20.09	0.00	20.09	50.00	-29.91	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



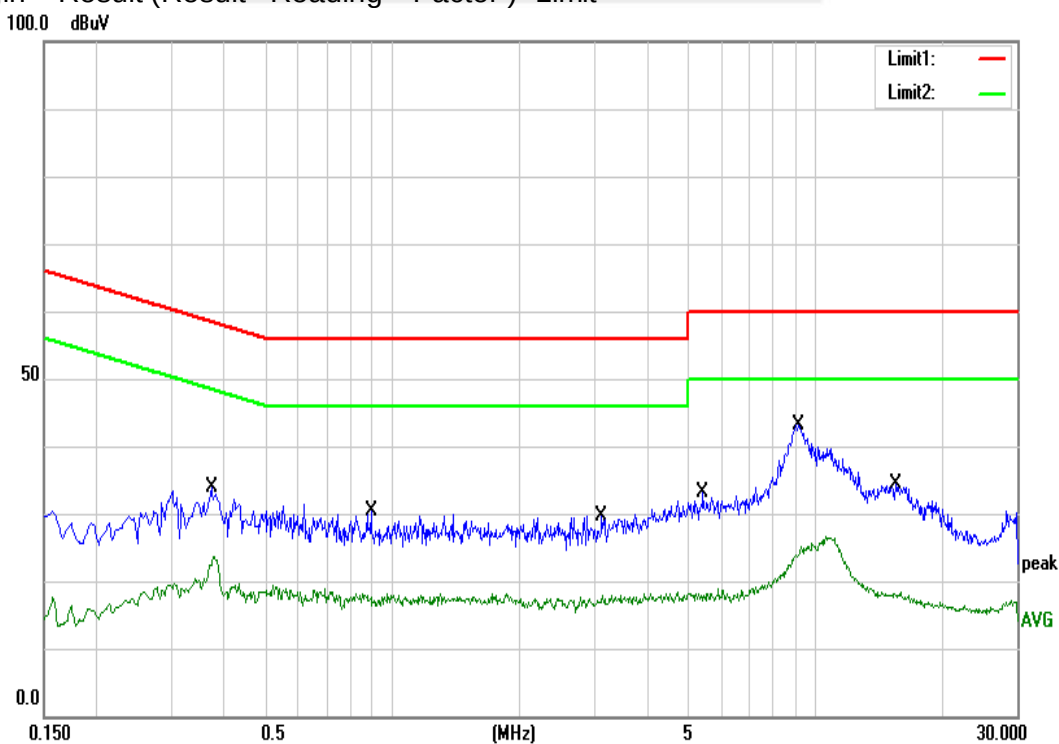


Temperature:	22°C	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.3740	33.76	0.00	33.76	58.41	-24.65	QP
0.3740	23.74	0.00	23.74	48.41	-24.67	AVG
0.8900	30.37	0.00	30.37	56.00	-25.63	QP
0.8900	18.25	0.00	18.25	46.00	-27.75	AVG
3.1380	29.54	0.00	29.54	56.00	-26.46	QP
3.1380	17.94	0.00	17.94	46.00	-28.06	AVG
5.4220	33.03	0.00	33.03	60.00	-26.97	QP
5.4220	18.77	0.00	18.77	50.00	-31.23	AVG
9.1540	43.08	0.00	43.08	60.00	-16.92	QP
9.1540	26.50	0.00	26.50	50.00	-23.50	AVG
15.5340	34.33	0.00	34.33	60.00	-25.67	QP
15.5340	19.28	0.00	19.28	50.00	-30.72	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



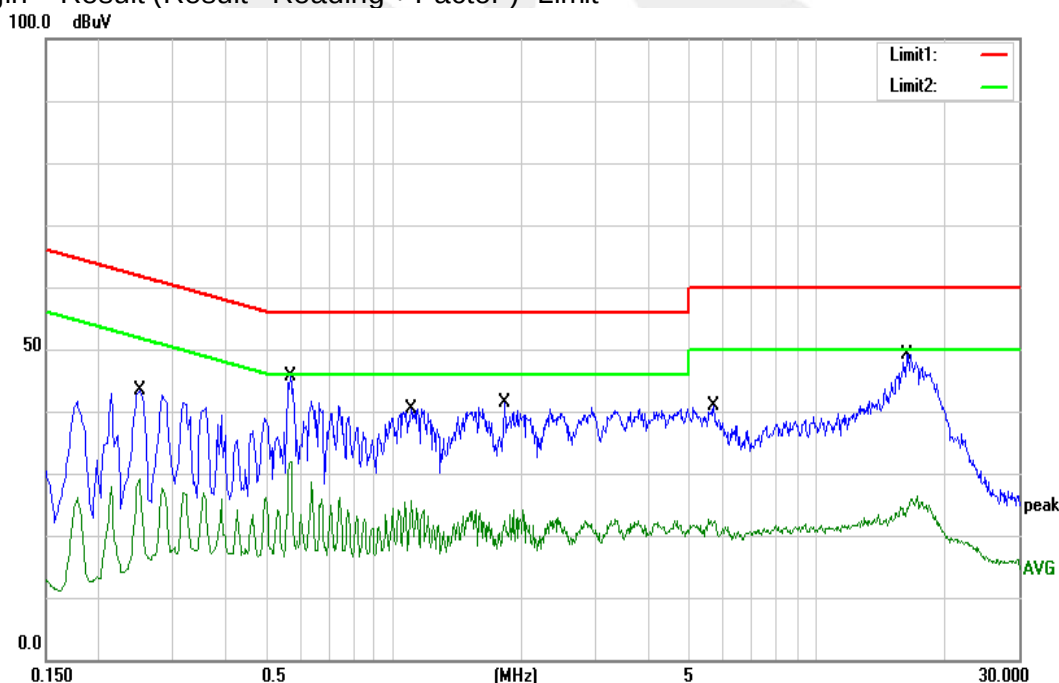


Temperature:	24.6 °C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 14 (Part 15B & ICES-003)		

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.2500	23.34	20.04	43.38	61.76	-18.38	QP
0.2500	9.28	20.04	29.32	51.76	-22.44	AVG
0.5700	26.23	19.90	46.13	56.00	-9.87	QP
0.5700	11.93	19.90	31.83	46.00	-14.17	AVG
1.0980	20.82	19.76	40.58	56.00	-15.42	QP
1.0980	5.58	19.76	25.34	46.00	-20.66	AVG
1.8220	21.40	19.81	41.21	56.00	-14.79	QP
1.8220	5.08	19.81	24.89	46.00	-21.11	AVG
5.7060	20.29	19.83	40.12	60.00	-19.88	QP
5.7060	2.84	19.83	22.67	50.00	-27.33	AVG
16.3420	29.52	20.04	49.56	60.00	-10.44	QP
16.3420	6.26	20.04	26.30	50.00	-23.70	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



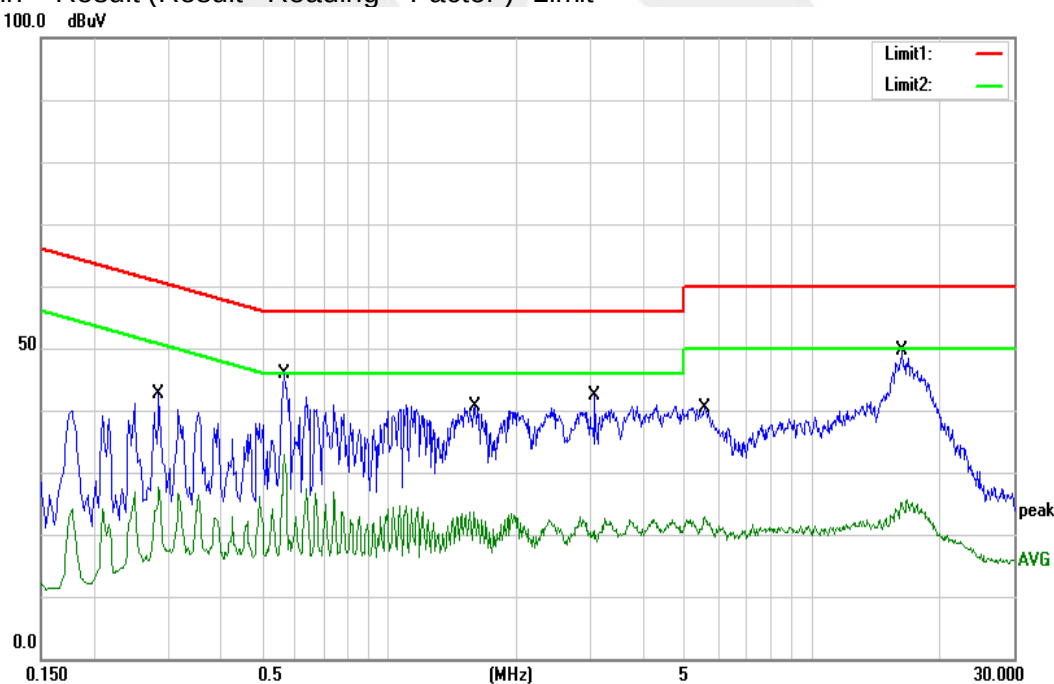


Temperature:	24.6°C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 14 (Part 15B& ICES-003)		
Note:			

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.2860	21.94	20.18	42.12	60.64	-18.52	QP
0.2860	7.56	20.18	27.74	50.64	-22.90	AVG
0.5660	25.36	19.90	45.26	56.00	-10.74	QP
0.5660	12.47	19.90	32.37	46.00	-13.63	AVG
1.5940	20.73	19.79	40.52	56.00	-15.48	QP
1.5940	3.62	19.79	23.41	46.00	-22.59	AVG
3.0700	22.79	19.85	42.64	56.00	-13.36	QP
3.0700	2.84	19.85	22.69	46.00	-23.31	AVG
5.5700	20.83	19.84	40.67	60.00	-19.33	QP
5.5700	2.23	19.84	22.07	50.00	-27.93	AVG
16.3340	29.89	20.04	49.93	60.00	-10.07	QP
16.3340	5.74	20.04	25.78	50.00	-24.22	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



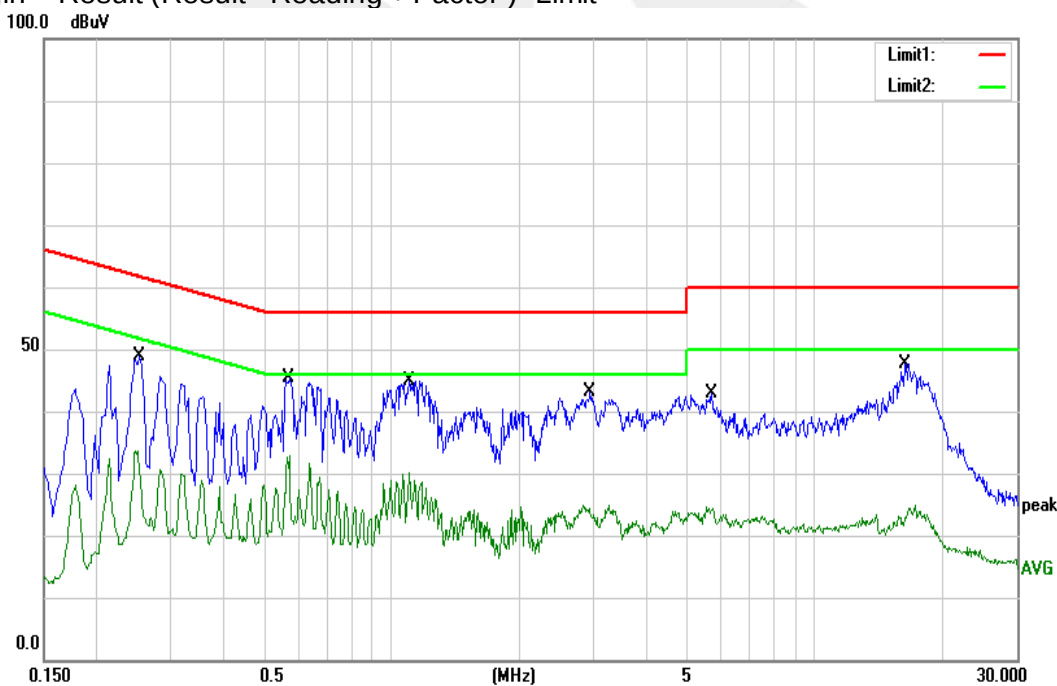


Temperature:	24.6 °C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 15 (Part 15B & ICES-003)		

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.2520	28.24	20.05	48.29	61.69	-13.40	QP
0.2520	9.86	20.05	29.91	51.69	-21.78	AVG
0.5701	25.15	19.90	45.05	56.00	-10.95	QP
0.5701	8.63	19.90	28.53	46.00	-17.47	AVG
1.0980	25.01	19.76	44.77	56.00	-11.23	QP
1.0980	7.56	19.76	27.32	46.00	-18.68	AVG
2.9340	23.41	19.85	43.26	56.00	-12.74	QP
2.9340	3.36	19.85	23.21	46.00	-22.79	AVG
5.7060	22.47	19.83	42.30	60.00	-17.70	QP
5.7060	3.36	19.83	23.19	50.00	-26.81	AVG
16.3420	27.65	20.04	47.69	60.00	-12.31	QP
16.3420	-0.17	20.04	19.87	50.00	-30.13	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



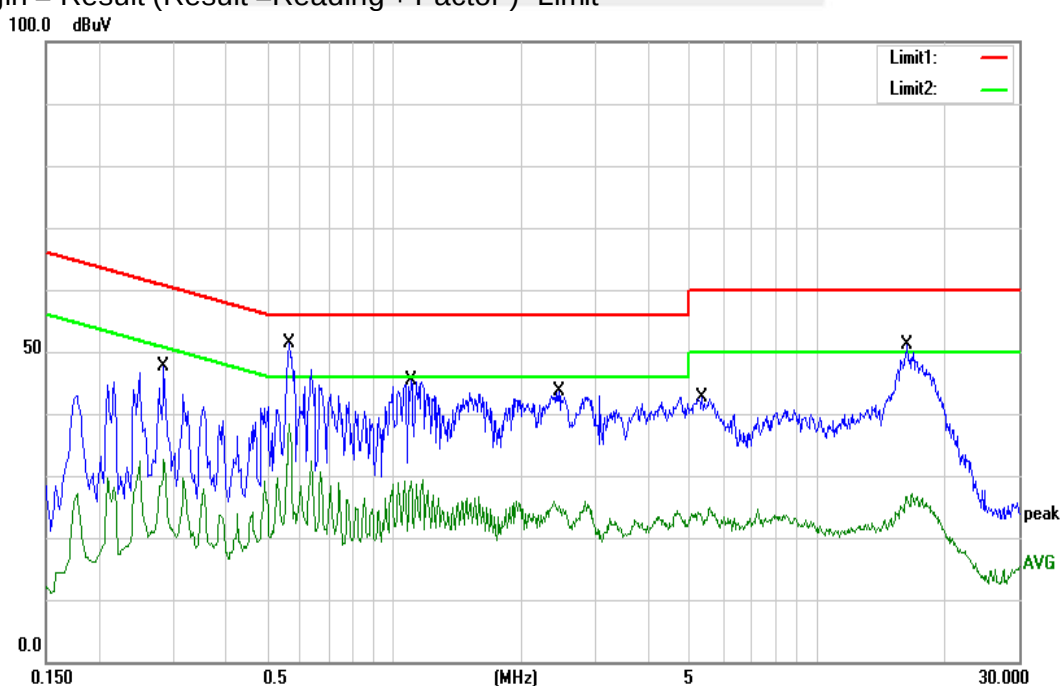


Temperature:	24.6°C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 15 (Part 15B& ICES-003)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.2860	27.70	20.18	47.88	60.64	-12.76	QP
0.2860	3.54	20.18	23.72	50.64	-26.92	AVG
0.5660	31.56	19.90	51.46	56.00	-4.54	QP
0.5660	8.88	19.90	28.78	46.00	-17.22	AVG
1.0940	25.58	19.76	45.34	56.00	-10.66	QP
1.0940	4.82	19.76	24.58	46.00	-21.42	AVG
2.4580	23.80	19.83	43.63	56.00	-12.37	QP
2.4580	2.19	19.83	22.02	46.00	-23.98	AVG
5.3540	22.65	19.84	42.49	60.00	-17.51	QP
5.3540	3.30	19.84	23.14	50.00	-26.86	AVG
16.3340	31.25	20.04	51.29	60.00	-8.71	QP
16.3340	4.18	20.04	24.22	50.00	-25.78	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



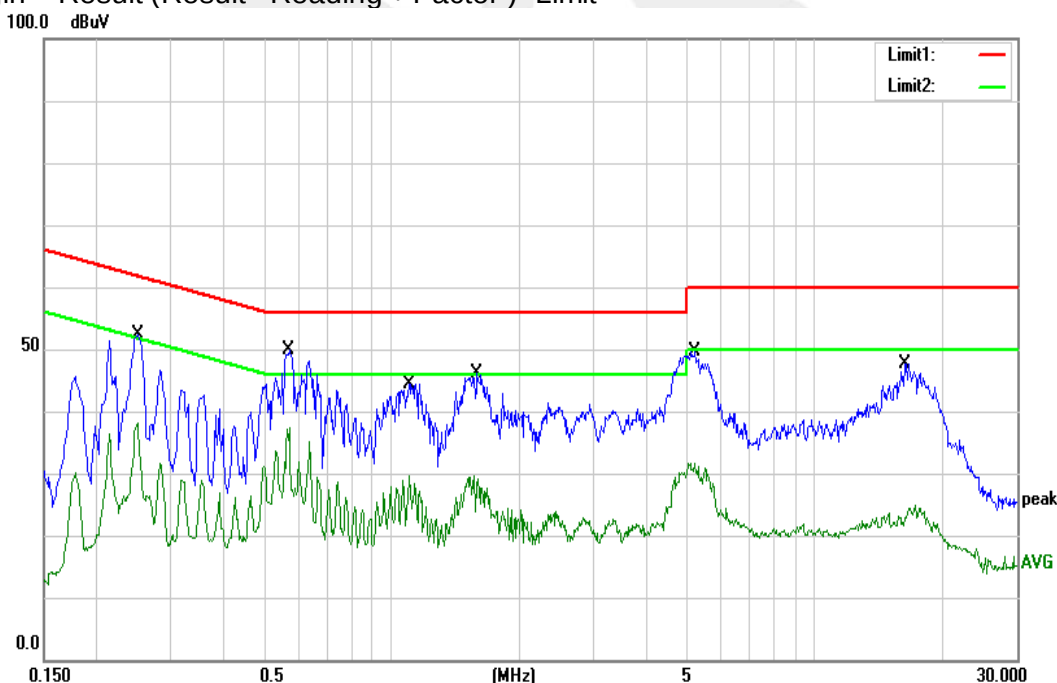


Temperature:	24.6 °C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 16 (Part 15B & ICES-003)		

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.2500	32.08	20.04	52.12	61.76	-9.64	QP
0.2500	9.22	20.04	29.26	51.76	-22.50	AVG
0.5701	29.52	19.90	49.42	56.00	-6.58	QP
0.5701	5.23	19.90	25.13	46.00	-20.87	AVG
1.0980	24.51	19.76	44.27	56.00	-11.73	QP
1.0980	6.42	19.76	26.18	46.00	-19.82	AVG
1.5900	26.60	19.79	46.39	56.00	-9.61	QP
1.5900	3.46	19.79	23.25	46.00	-22.75	AVG
5.1940	30.01	19.85	49.86	60.00	-10.14	QP
5.1940	1.86	19.85	21.71	50.00	-28.29	AVG
16.3420	27.25	20.04	47.29	60.00	-12.71	QP
16.3420	-2.01	20.04	18.03	50.00	-31.97	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit



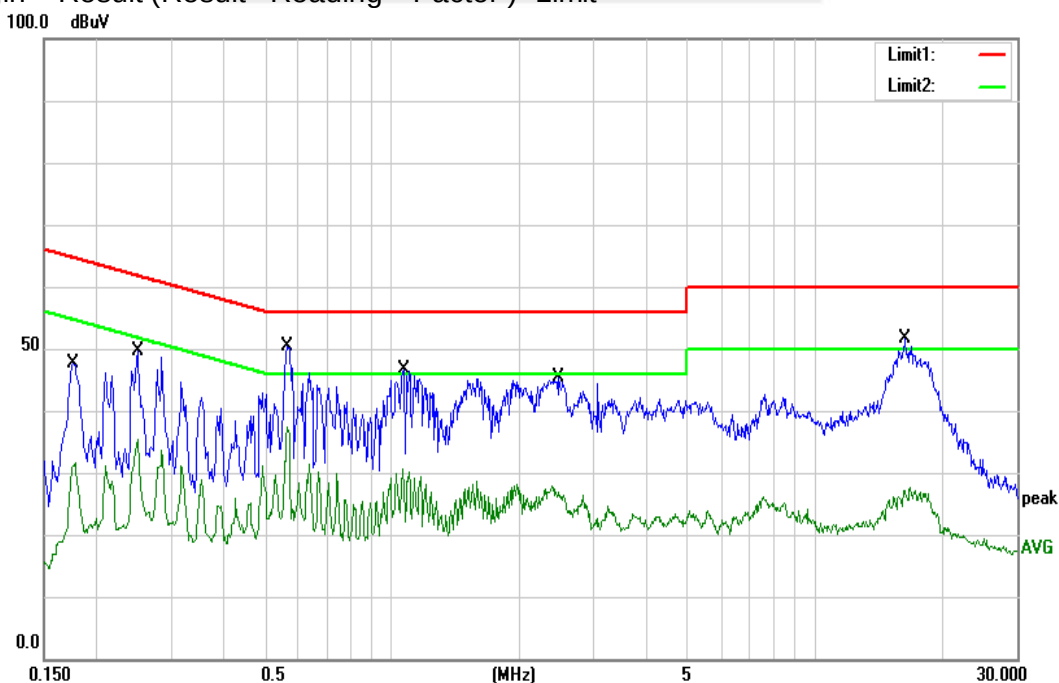


Temperature:	24.6°C	Relative Humidity:	67%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 16 (Part 15B& ICES-003)		

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.1758	27.47	19.78	47.25	64.68	-17.43	QP
0.1758	11.64	19.78	31.42	54.68	-23.26	AVG
0.2500	29.31	20.04	49.35	61.76	-12.41	QP
0.2500	4.75	20.04	24.79	51.76	-26.97	AVG
0.5660	30.34	19.90	50.24	56.00	-5.76	QP
0.5660	7.41	19.90	27.31	46.00	-18.69	AVG
1.0660	26.38	19.75	46.13	56.00	-9.87	QP
1.0660	8.21	19.75	27.96	46.00	-18.04	AVG
2.4740	25.53	19.83	45.36	56.00	-10.64	QP
2.4740	4.91	19.83	24.74	46.00	-21.26	AVG
16.3340	31.59	20.04	51.63	60.00	-8.37	QP
16.3340	6.87	20.04	26.91	50.00	-23.09	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Margin = Result (Result = Reading + Factor) – Limit





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Class A (at 10m) dBuV/m	Class B (at 3m) dBuV/m
30~88	39.0	40.0
88~216	43.5	43.5
216~960	46.5	46.0
Above 960	49.5	54.0

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Note:

- 1) The tighter limit applies at the band edges.
- 2) Emission level (dBuV/m)=20log Emission level (uV/m).

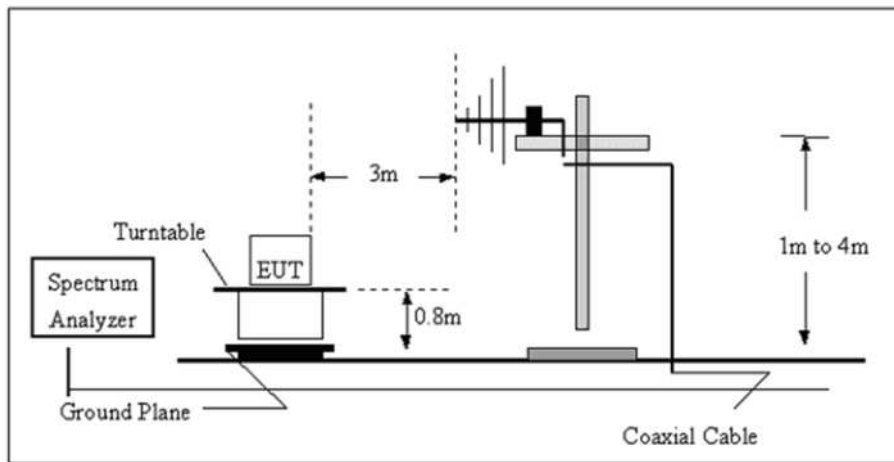
3.2.2 TEST PROCEDURE

- a) 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.
- b) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 0.8 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) 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.
- e) 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.
- f) For the actual test configuration, please refer to the related Item –EUT Test Photos.

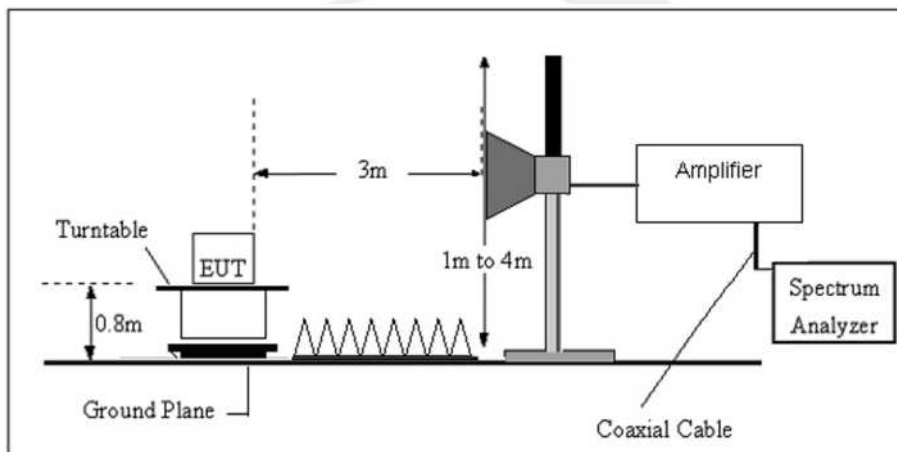
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

a) Radiated Emission Test-Up Frequency 30MHz~1GHz



b) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING 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.



3.2.5 TEST RESULTS

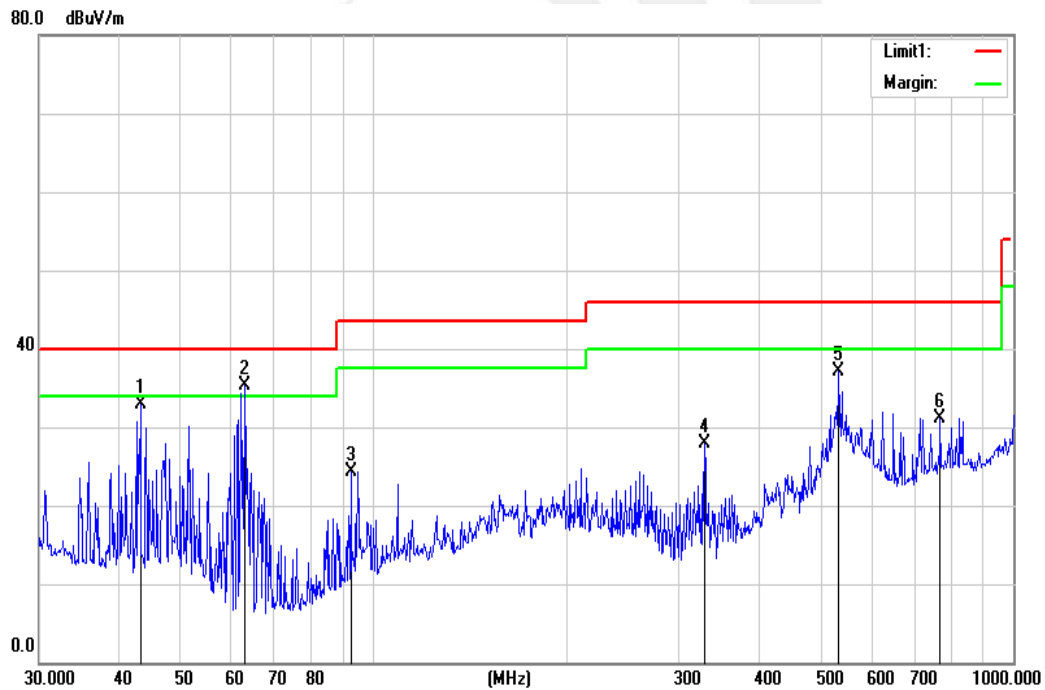
Between 30-1000MHz:

Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 5V from USB	Test Mode:	Mode 14 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	43.2017	50.91	-17.97	32.94	40.00	-7.06	QP
2	62.8708	59.64	-24.27	35.37	40.00	-4.63	QP
3	92.1388	44.22	-19.98	24.24	43.50	-19.26	QP
4	329.0390	41.98	-14.10	27.88	46.00	-18.12	QP
5	533.8320	44.66	-7.58	37.08	46.00	-8.92	QP
6	768.7481	34.56	-3.39	31.17	46.00	-14.83	QP

Remark:

1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



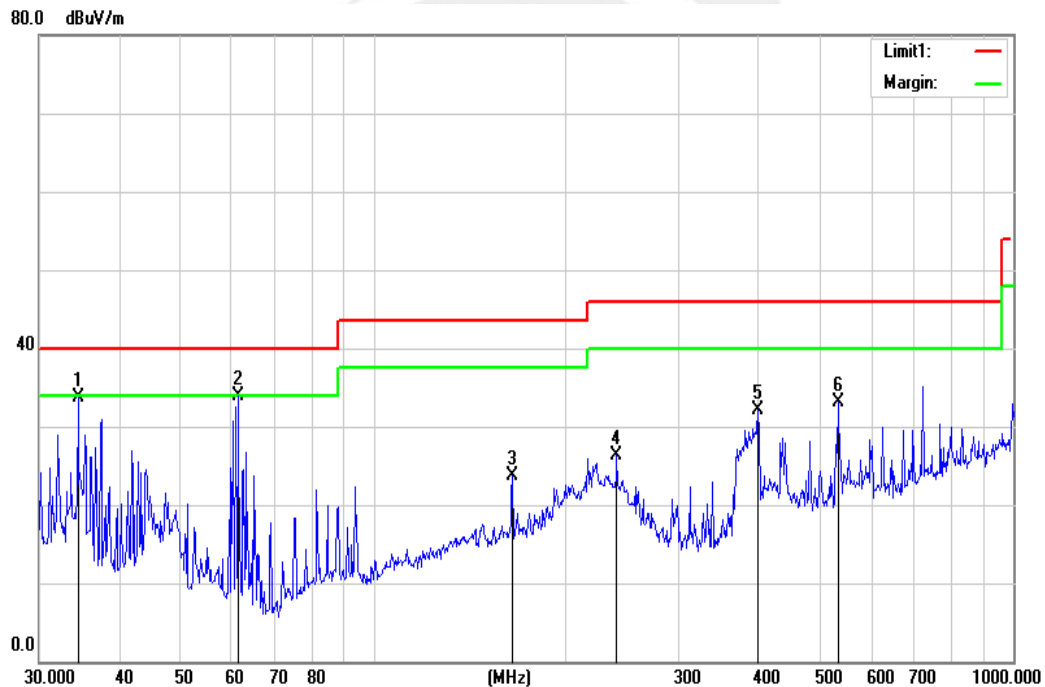


Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 5V from USB	Test Mode:	Mode 14 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Results (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	34.5172	47.13	-13.51	33.62	40.00	-6.38	QP
2	61.3463	58.30	-24.31	33.99	40.00	-6.01	QP
3	164.9071	42.60	-18.91	23.69	43.50	-19.81	QP
4	239.9873	43.98	-17.76	26.22	46.00	-19.78	QP
5	399.0300	43.32	-11.28	32.04	46.00	-13.96	QP
6	531.9633	40.91	-7.75	33.16	46.00	-12.84	QP

Remark:

1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



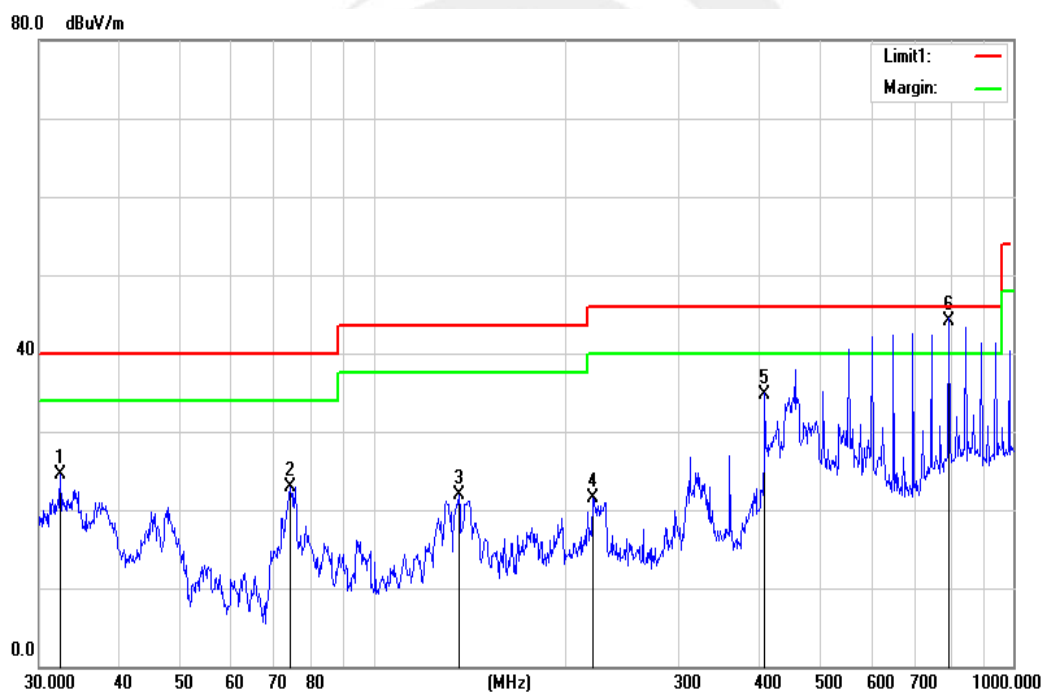


Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 15 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.4060	36.87	-12.42	24.45	40.00	-15.55	QP
2	74.1350	46.50	-23.52	22.98	40.00	-17.02	QP
3	135.9822	39.46	-17.52	21.94	43.50	-21.56	QP
4	219.8447	40.64	-19.13	21.51	46.00	-24.49	QP
5	408.9460	45.88	-11.08	34.80	46.00	-11.20	QP
6	791.9960	47.44	-3.33	44.11	46.00	-1.89	QP

Remark:

1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



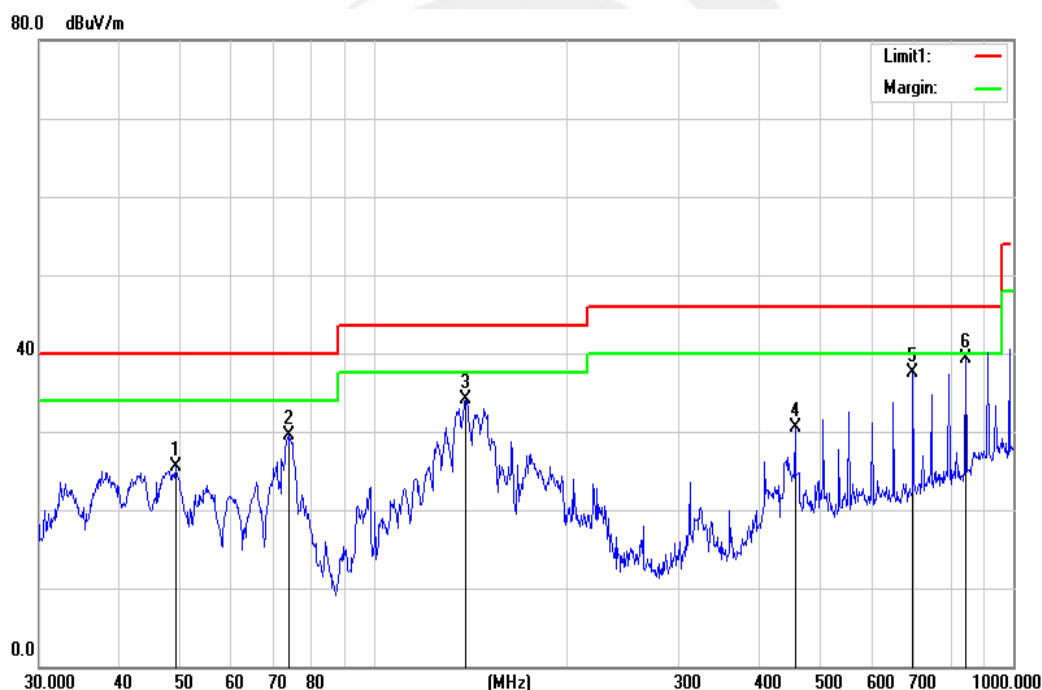


Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 15 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49.0144	46.40	-20.97	25.43	40.00	-14.57	QP
2	73.6170	53.02	-23.59	29.43	40.00	-10.57	QP
3	139.3611	51.61	-17.51	34.10	43.50	-9.40	QP
4	455.9057	41.39	-10.80	30.59	46.00	-15.41	QP
5	696.8567	43.00	-5.42	37.58	46.00	-8.42	QP
6	842.1295	42.04	-2.74	39.30	46.00	-6.70	QP

Remark:

1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



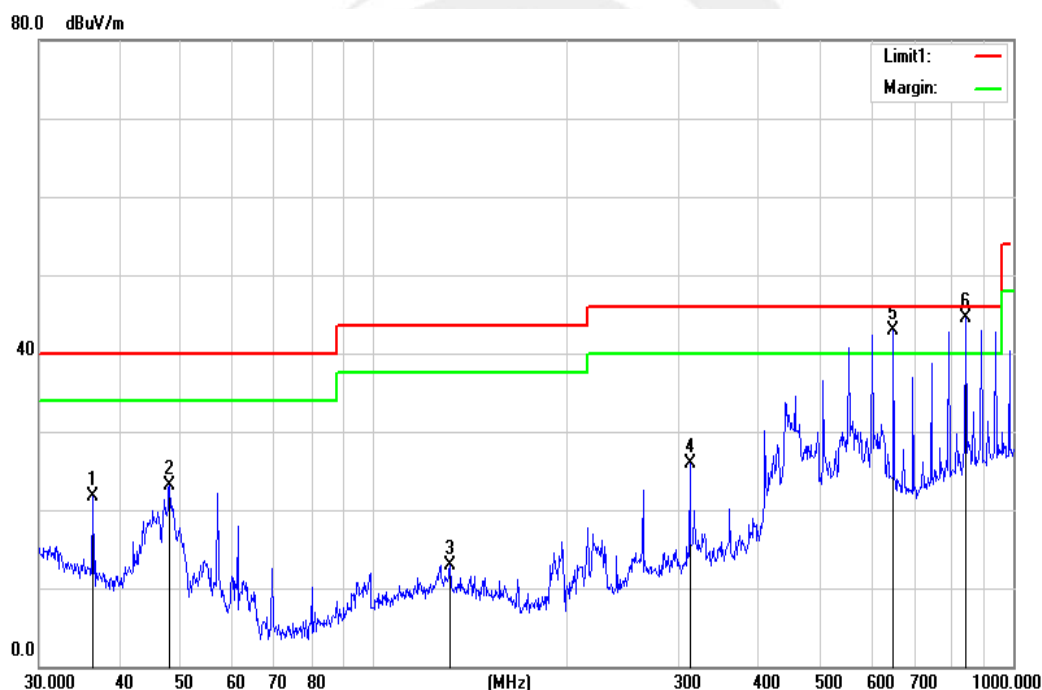


Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery	Test Mode:	Mode 15 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.3813	36.21	-14.47	21.74	40.00	-18.26	QP
2	47.9940	43.55	-20.45	23.10	40.00	-16.90	QP
3	131.7575	30.44	-17.54	12.90	43.50	-30.60	QP
4	312.1792	40.33	-14.42	25.91	46.00	-20.09	QP
5	649.6597	49.14	-6.31	42.83	46.00	-3.17	QP
6	840.0096	47.30	-2.75	44.55	46.00	-1.45	QP

Remark:

1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit



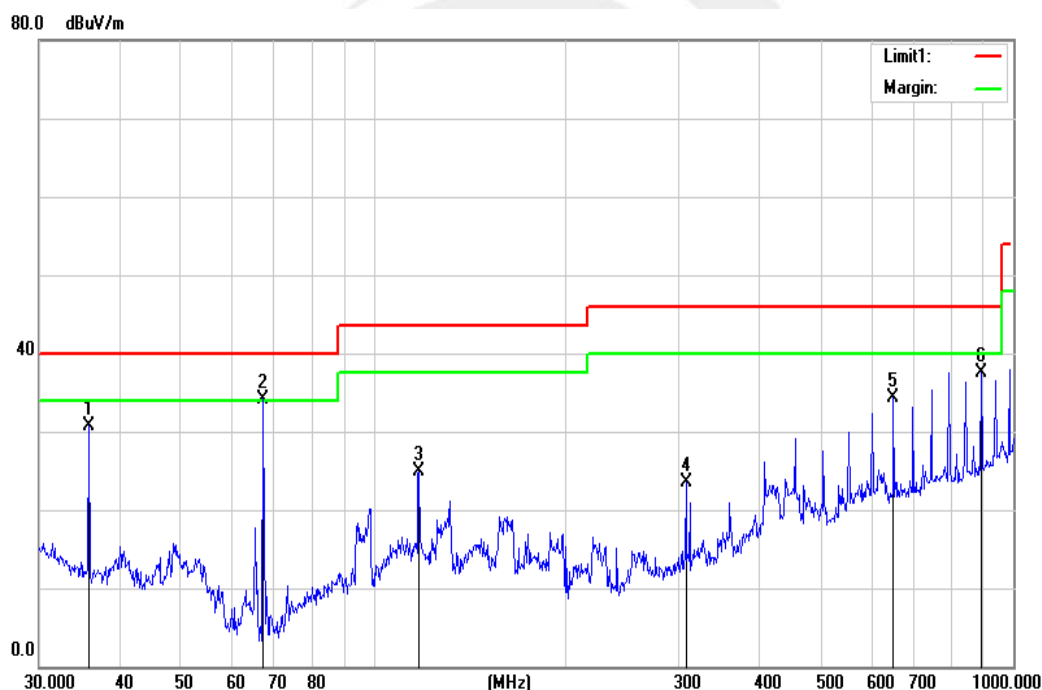


Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	DC 3.7V from battery	Test Mode:	Mode 15 (Part 15B & ICES-003)

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.8746	44.88	-14.20	30.68	40.00	-9.32	QP
2	67.2022	58.34	-24.17	34.17	40.00	-5.83	QP
3	117.7724	42.68	-17.83	24.85	43.50	-18.65	QP
4	307.8312	38.08	-14.57	23.51	46.00	-22.49	QP
5	649.6597	40.65	-6.31	34.34	46.00	-11.66	QP
6	890.7278	39.97	-2.38	37.59	46.00	-8.41	QP

Remark:

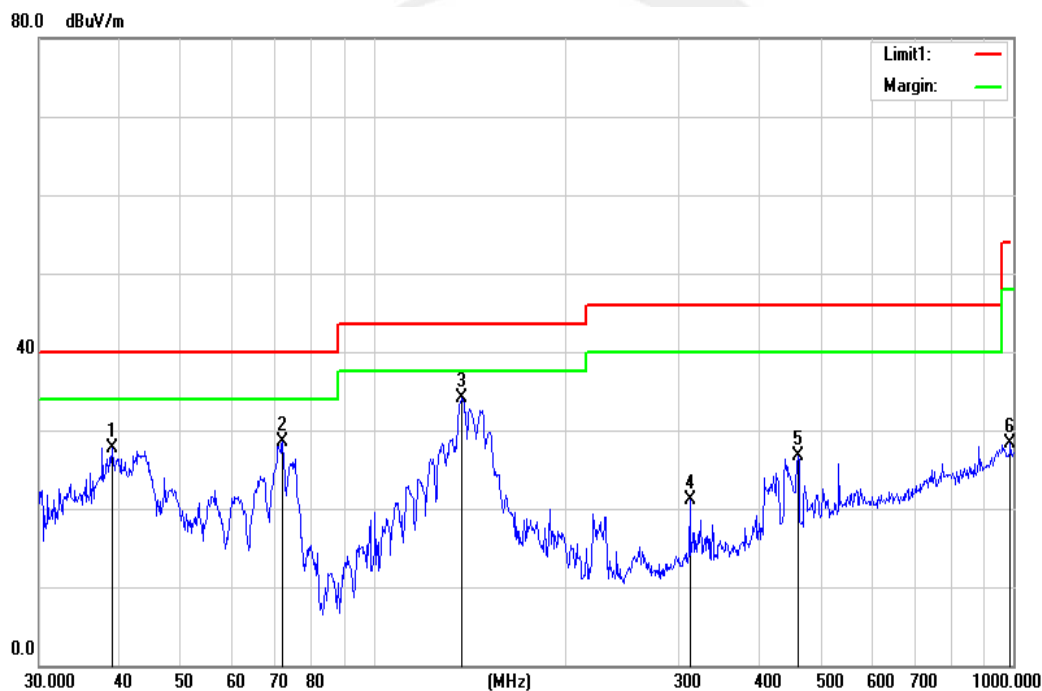
1. All readings are Quasi-Peak .
2. Margin = Result (Result =Reading + Factor)–Limit





Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 16 (Part 15B & ICES-003)

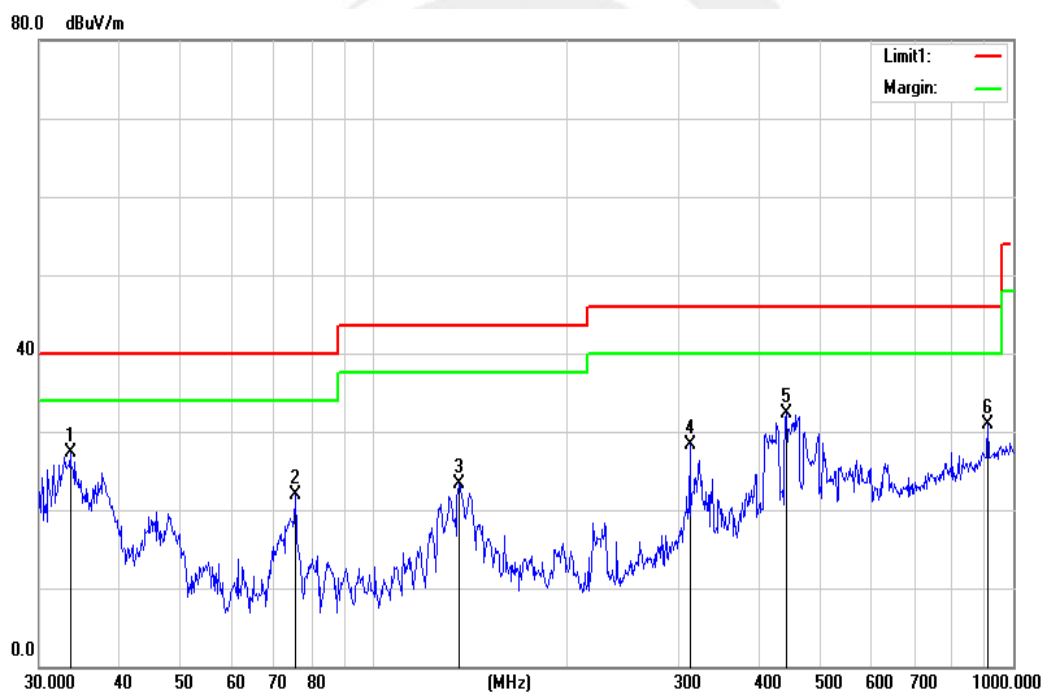
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.0245	43.51	-15.82	27.69	40.00	-12.31	QP
2	72.0843	52.24	-23.81	28.43	40.00	-11.57	QP
3	137.4202	51.67	-17.52	34.15	43.50	-9.35	QP
4	312.1792	35.52	-14.42	21.10	46.00	-24.90	QP
5	460.7271	36.79	-10.11	26.68	46.00	-19.32	QP
6	989.5355	28.50	-0.11	28.39	54.00	-25.61	QP

Remark:**1. All readings are Quasi-Peak .****2. Margin = Result (Result =Reading + Factor)–Limit**



Temperature:	22.1 °C	Relative Humidity:	59%
Pressure:	1010hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 16 (Part 15B & ICES-003)

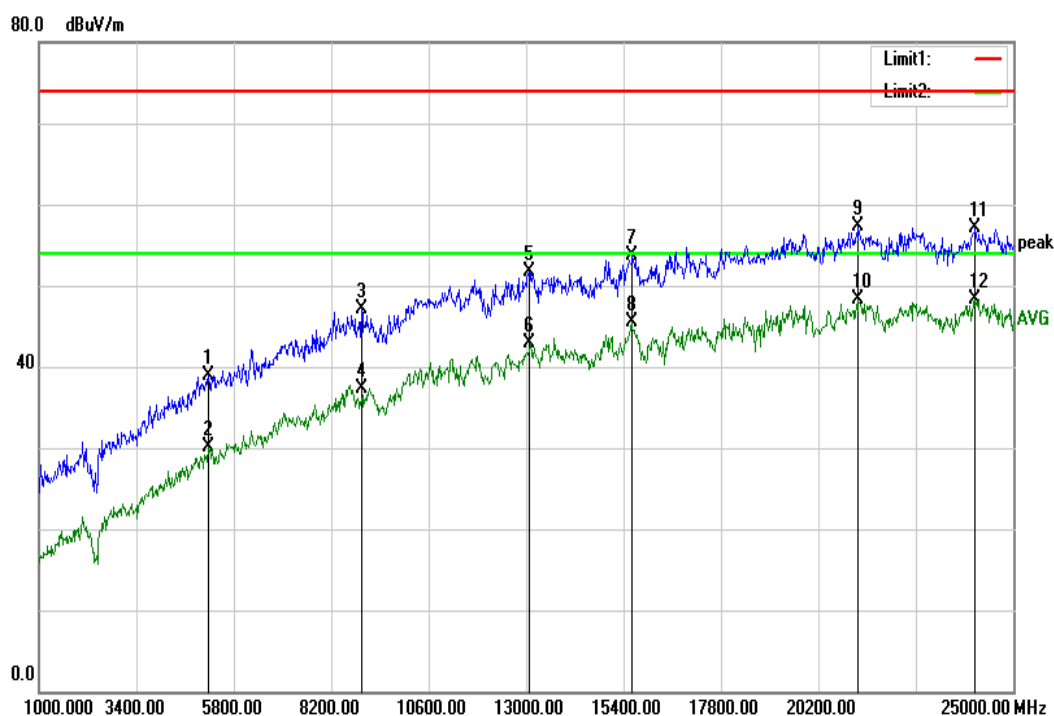
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.5623	40.30	-13.02	27.28	40.00	-12.72	QP
2	75.4463	45.32	-23.33	21.99	40.00	-18.01	QP
3	135.9822	40.84	-17.52	23.32	43.50	-20.18	QP
4	312.1792	42.76	-14.42	28.34	46.00	-17.66	QP
5	441.7425	43.26	-10.88	32.38	46.00	-13.62	QP
6	912.8620	32.75	-1.82	30.93	46.00	-15.07	QP

Remark:**1. All readings are Quasi-Peak .****2. Margin = Result (Result =Reading + Factor)–Limit**



Between 1GHz – 25GHz (worst case):

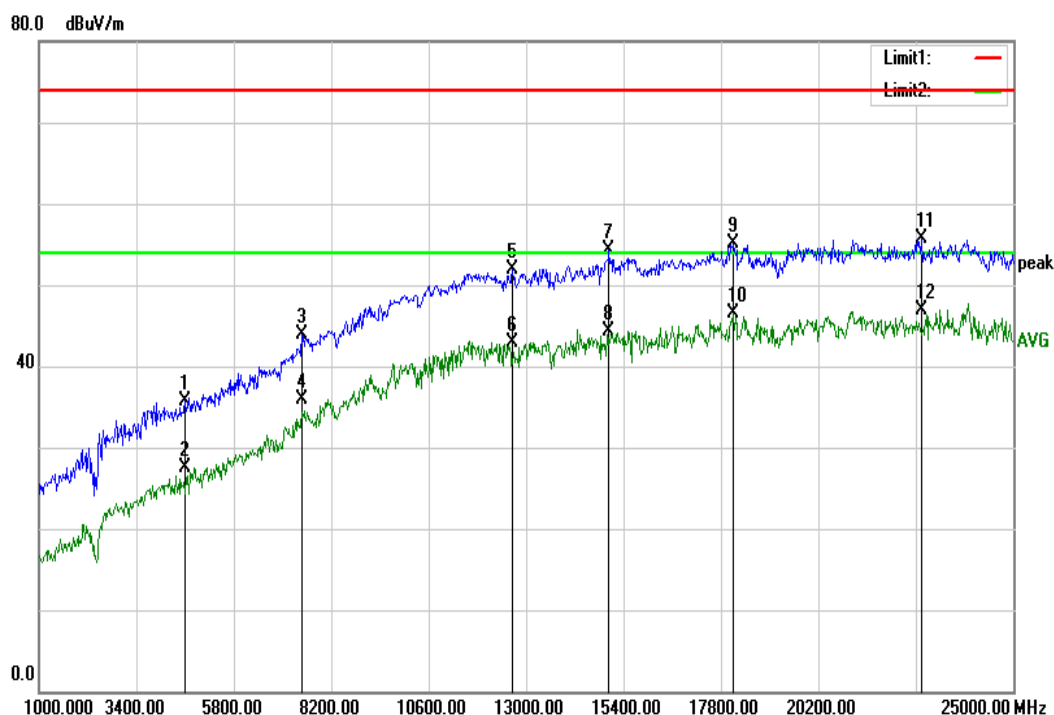
Temperature:	22.4℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5176.000	34.45	4.52	38.97	74.00	-35.03	peak
2	5176.000	25.51	4.52	30.03	54.00	-23.97	AVG
3	8944.000	35.27	11.93	47.20	74.00	-26.80	peak
4	8944.000	25.42	11.93	37.35	54.00	-16.65	AVG
5	13072.000	12.68	39.09	51.77	74.00	-22.23	peak
6	13072.000	3.74	39.09	42.83	54.00	-11.17	AVG
7	15616.000	15.44	38.29	53.73	74.00	-20.27	peak
8	15616.000	7.19	38.29	45.48	54.00	-8.52	AVG
9	21184.000	57.31	0.00	57.31	74.00	-16.69	peak
10	21184.000	48.39	0.00	48.39	54.00	-5.61	AVG
11	24064.000	57.09	0.00	57.09	74.00	-16.91	peak
12	24064.000	48.23	0.00	48.23	54.00	-5.77	AVG



Temperature:	22.4℃	Relative Humidity:	68%
Pressure:	1010hPa	Phase:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4600.000	32.95	2.76	35.71	74.00	-38.29	peak
2	4600.000	24.66	2.76	27.42	54.00	-26.58	AVG
3	7480.000	33.65	10.29	43.94	74.00	-30.06	peak
4	7480.000	25.59	10.29	35.88	54.00	-18.12	AVG
5	12664.000	13.12	38.80	51.92	74.00	-22.08	peak
6	12664.000	4.01	38.80	42.81	54.00	-11.19	AVG
7	15040.000	14.21	40.08	54.29	74.00	-19.71	peak
8	15040.000	4.23	40.08	44.31	54.00	-9.69	AVG
9	18112.000	55.03	0.00	55.03	74.00	-18.97	peak
10	18112.000	46.59	0.00	46.59	54.00	-7.41	AVG
11	22744.000	55.75	0.00	55.75	74.00	-18.25	peak
12	22744.000	46.83	0.00	46.83	54.00	-7.17	AVG



3.3 RADIATED SPURIOUS EMISSION MEASUREMENT

3.3.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) and RSS-247 Issue 2 limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak/AV
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier hamonic(Peak/AV)
RB / VB (emission in restricted	1 MHz /3MHz

For Band edge

Spectrum Parameter	Setting
Detector	Peak/AV
Start/Stop Frequency	Lower Band Edge: 2300 to 2422 MHz Upper Band Edge: 2452to 2500 MHz
RB / VB (emission in restricted band)	1 MHz /3MHz



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.3.2 TEST PROCEDURE

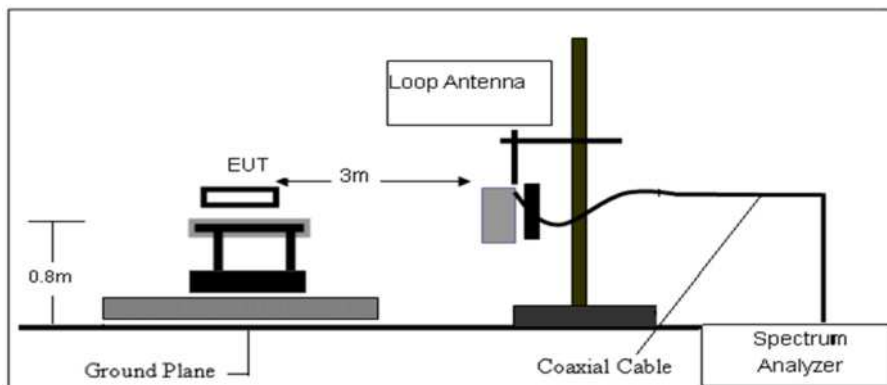
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. 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:

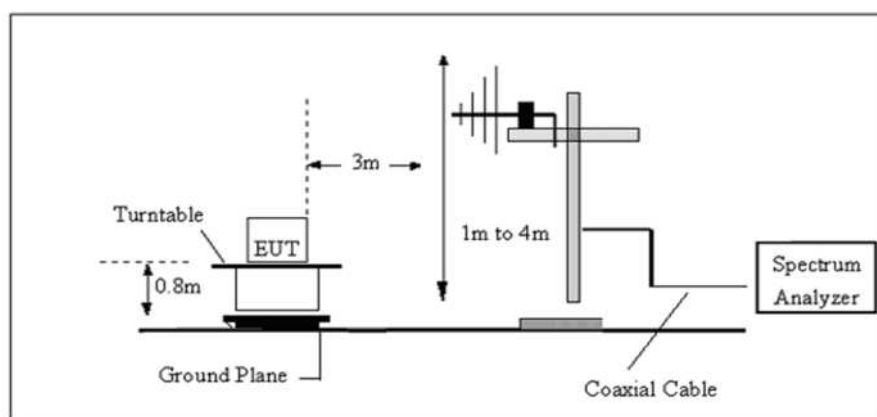
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

3.3.3 TEST SETUP

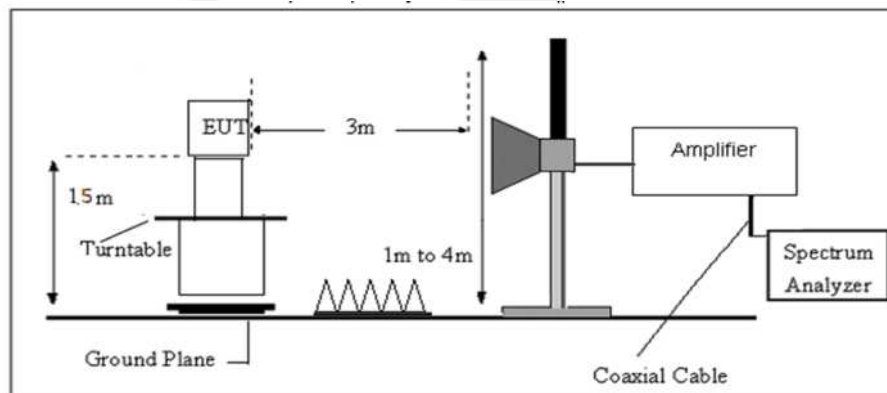
a) Radiated Emission Test-Up Frequency Below 30MHz



b) Radiated Emission Test-Up Frequency 30MHz~1GHz



c) Radiated Emission Test-Up Frequency Above 1GHz



3.3.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$

3.3.6 TEST RESULT

9KHz-30MHz

Temperature:	22.1°C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz	Polarization:	--
Test Mode:	TX Mode		

Freq.	Reading	Limit	Margin	State	Test Result
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB)	P/F	
--	--	--	--	--	PASS
--	--	--	--	--	PASS

Note:

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

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

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



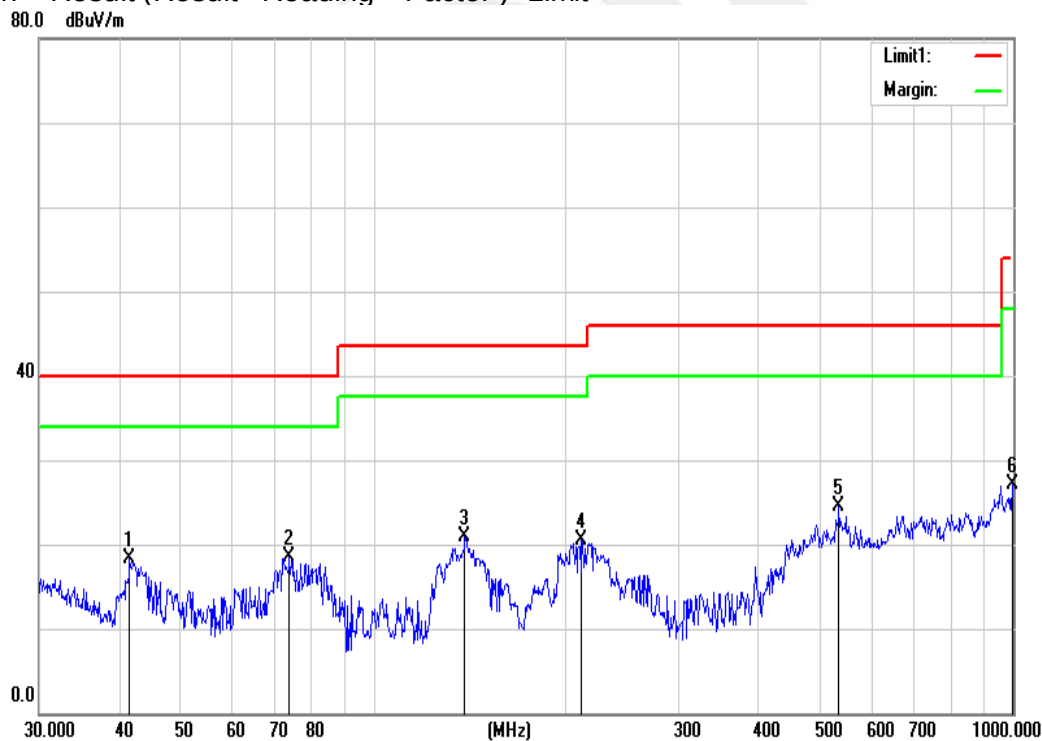
(30MHz - 1000MHz)

Temperature:	22.1°C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz	Polarization:	Horizontal
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 4 worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
41.5670	35.51	-17.13	18.38	40.00	-21.62	QP
73.8756	42.07	-23.56	18.51	40.00	-21.49	QP
138.8735	38.46	-17.51	20.95	43.50	-22.55	QP
211.5261	40.16	-19.65	20.51	43.50	-22.99	QP
533.8320	32.00	-7.58	24.42	46.00	-21.58	QP
996.4995	27.18	-0.09	27.09	54.00	-26.91	QP

Remark:

1. Margin = Result (Result =Reading + Factor)-Limit



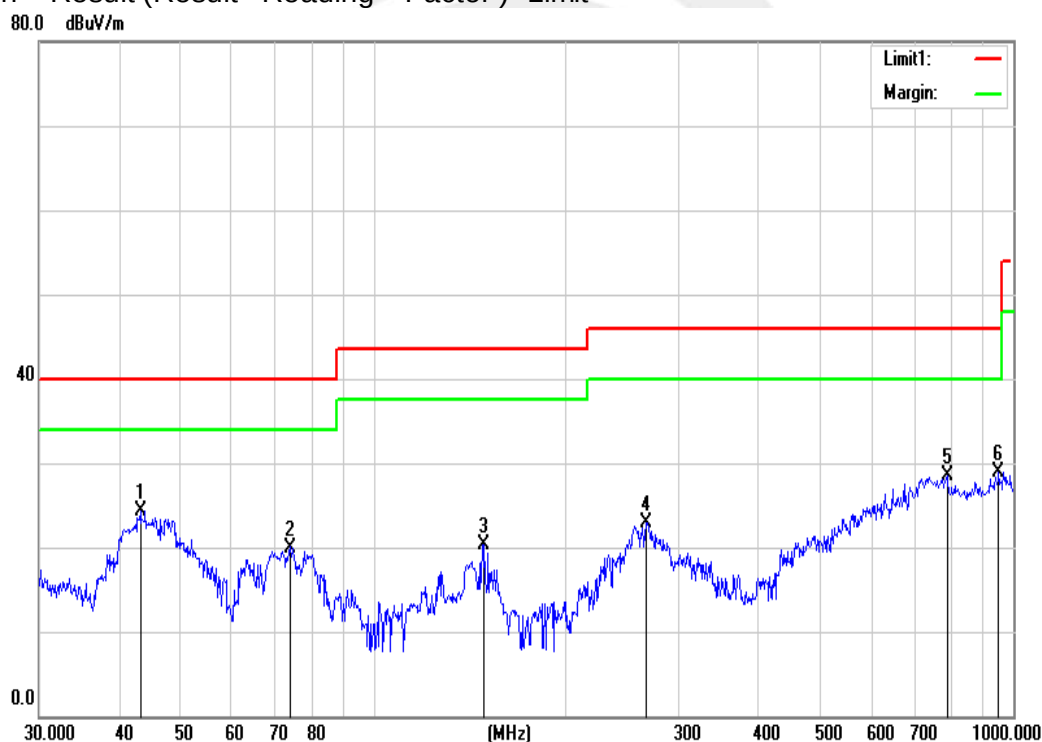


Temperature:	22.1°C	Relative Humidity:	56%
Test Voltage:	AC 120V/60Hz	Polarization:	Vertical
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 4 worst mode)		

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
43.2017	42.18	-17.97	24.21	40.00	-15.79	QP
74.1350	43.52	-23.52	20.00	40.00	-20.00	QP
148.9625	38.21	-17.92	20.29	43.50	-23.21	QP
266.6090	38.33	-15.33	23.00	46.00	-23.00	QP
787.8513	31.70	-3.24	28.46	46.00	-17.54	QP
948.7610	29.38	-0.45	28.93	46.00	-17.07	QP

Remark:.

1. Margin = Result (Result =Reading + Factor)–Limit

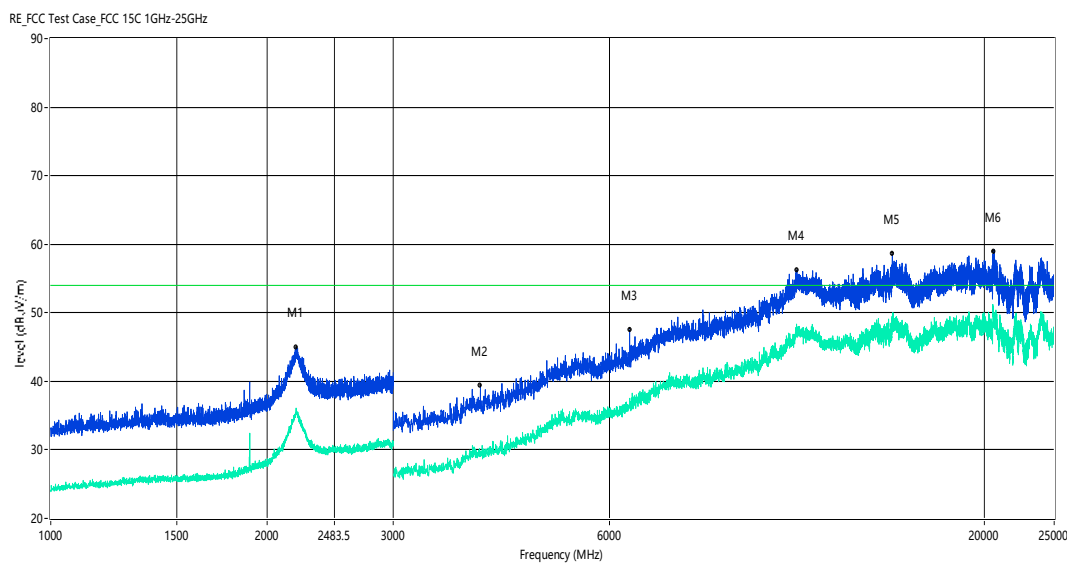




(Above 1000MHz) Restricted band and Spurious emission Requirements

802.11 b CH Low

Vertical

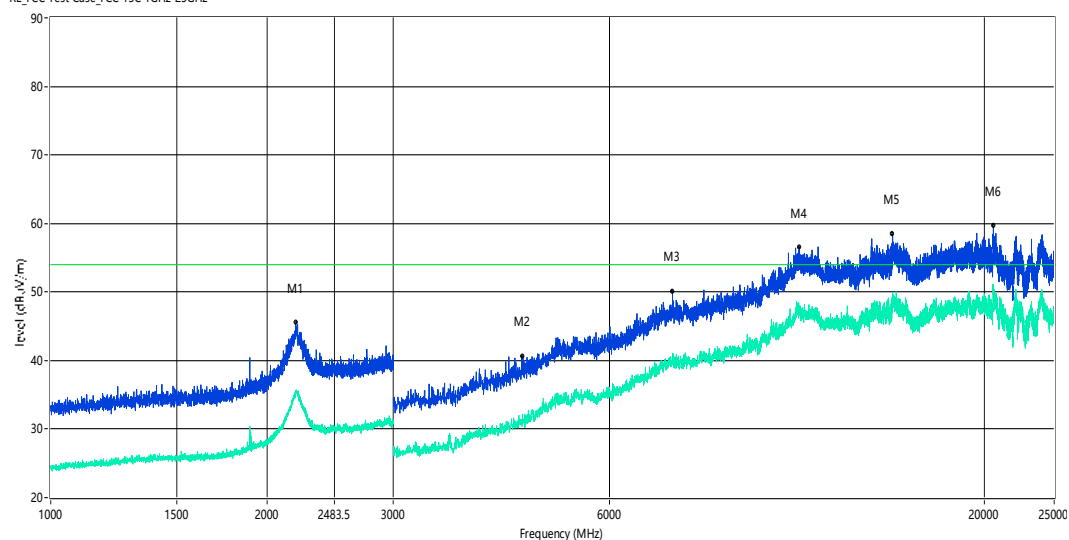


No.	Frequency (MHz)	Results (dBr, uV/m)	Factor (dB)	Limit (dBr, uV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2197.000	35.17	-7.37	54.0	-18.83	AV	V	Pass
1	2197.000	45.01	-7.37	74.0	-28.99	Peak	V	Pass
2**	3967.500	29.81	-7.78	54.0	-24.19	AV	V	Pass
2	3967.500	39.35	-7.78	74.0	-34.65	Peak	V	Pass
3**	6405.000	36.97	0.76	54.0	-17.03	AV	V	Pass
3	6405.000	47.52	0.76	74.0	-26.48	Peak	V	Pass
4**	10952.500	47.17	10.78	54.0	-6.83	AV	V	Pass
4	10952.500	56.26	10.78	74.0	-17.74	Peak	V	Pass
5**	14873.750	49.41	12.28	54.0	-4.59	AV	V	Pass
5	14873.750	58.53	12.28	74.0	-15.47	Peak	V	Pass
6**	20579.500	49.06	14.14	54.0	-4.94	AV	V	Pass
6	20579.500	58.90	14.14	74.0	-15.10	Peak	V	Pass



Horizontal

RE_FCC Test Case_FCC 15C 1GHz-25GHz



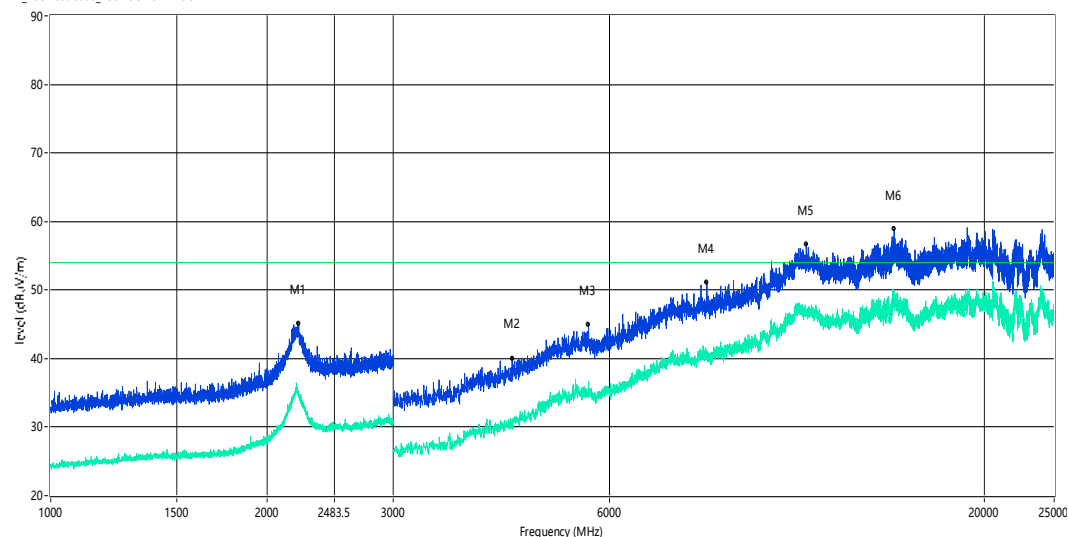
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2194.000	35.65	-7.53	54.0	-18.35	AV	H	Pass
1	2194.000	45.50	-7.53	74.0	-28.50	Peak	H	Pass
2**	4547.500	30.80	-5.46	54.0	-23.20	AV	H	Pass
2	4547.500	40.65	-5.46	74.0	-33.35	Peak	H	Pass
3**	7350.000	39.82	4.44	54.0	-14.18	AV	H	Pass
3	7350.000	50.10	4.44	74.0	-23.90	Peak	H	Pass
4**	11040.000	46.71	10.80	54.0	-7.29	AV	H	Pass
4	11040.000	56.49	10.80	74.0	-17.51	Peak	H	Pass
5**	14890.000	48.16	12.50	54.0	-5.84	AV	H	Pass
5	14890.000	58.44	12.50	74.0	-15.56	Peak	H	Pass
6**	20567.251	50.75	14.12	54.0	-3.25	AV	H	Pass
6	20567.251	59.63	14.12	74.0	-14.37	Peak	H	Pass



802.11 b CH Middle

Vertical

RE_FCC Test Case_FCC 15C 1GHz-25GHz

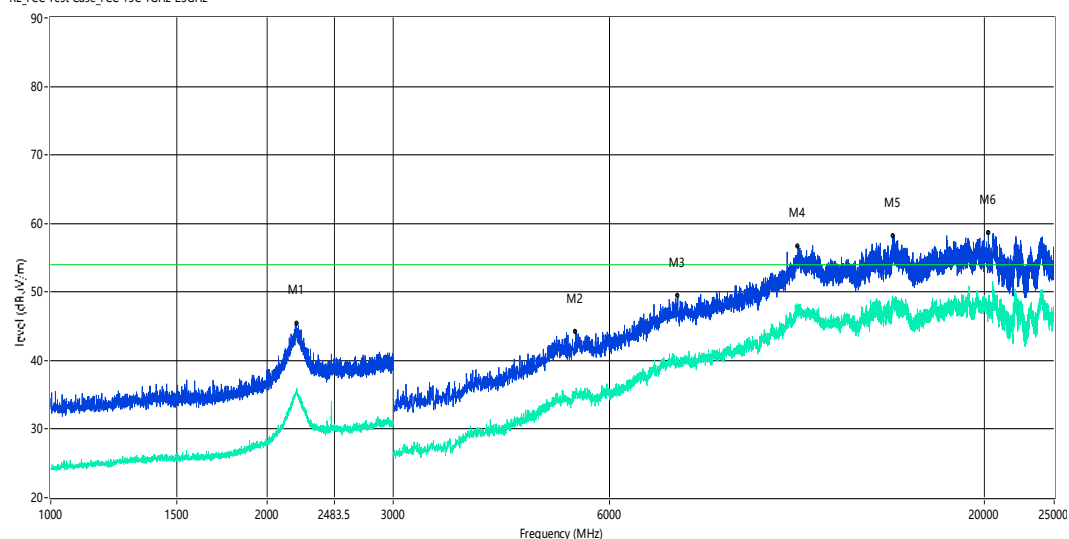


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2215.500	34.76	-7.96	54.0	-19.24	AV	V	Pass
1	2215.500	45.05	-7.96	74.0	-28.95	Peak	V	Pass
2**	4392.500	29.77	-6.06	54.0	-24.23	AV	V	Pass
2	4392.500	40.04	-6.06	74.0	-33.96	Peak	V	Pass
3**	5612.500	34.77	-1.16	54.0	-19.23	AV	V	Pass
3	5612.500	44.93	-1.16	74.0	-29.07	Peak	V	Pass
4**	8205.000	40.76	4.78	54.0	-13.24	AV	V	Pass
4	8205.000	51.08	4.78	74.0	-22.92	Peak	V	Pass
5**	11285.000	46.56	10.29	54.0	-7.44	AV	V	Pass
5	11285.000	56.60	10.29	74.0	-17.40	Peak	V	Pass
6**	14960.000	48.40	12.46	54.0	-5.60	AV	V	Pass
6	14960.000	58.84	12.46	74.0	-15.16	Peak	V	Pass



Horizontal

RE_FCC Test Case_FCC 15C 1GHz-25GHz



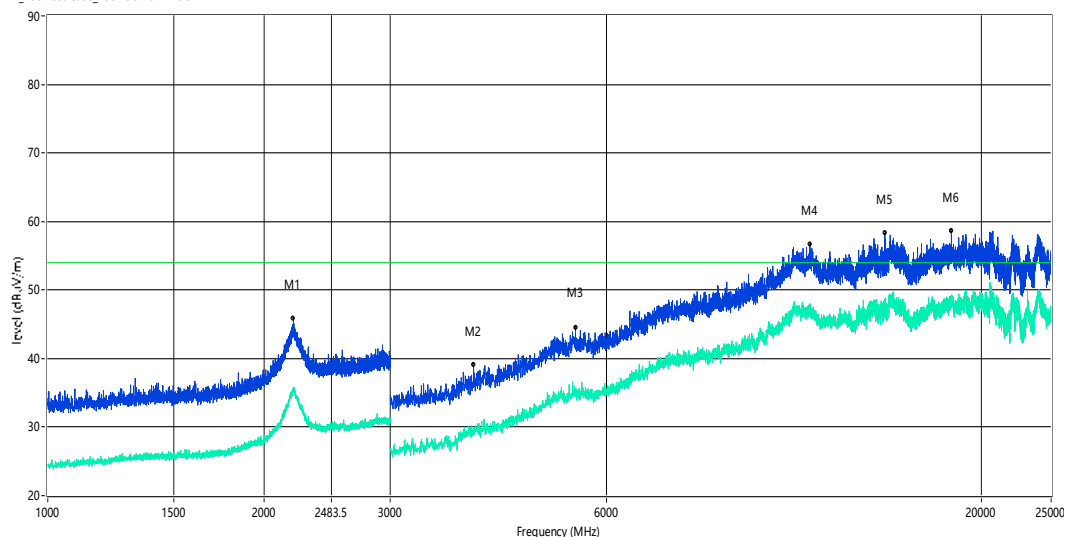
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2200.000	35.54	-7.21	54.0	-18.46	AV	H	Pass
1	2200.000	45.39	-7.21	74.0	-28.61	Peak	H	Pass
2**	5385.000	35.37	-1.45	54.0	-18.63	AV	H	Pass
2	5385.000	44.13	-1.45	74.0	-29.87	Peak	H	Pass
3**	7475.000	39.81	4.50	54.0	-14.19	AV	H	Pass
3	7475.000	49.41	4.50	74.0	-24.59	Peak	H	Pass
4**	10992.500	47.46	10.94	54.0	-6.54	AV	H	Pass
4	10992.500	56.68	10.94	74.0	-17.32	Peak	H	Pass
5**	14900.000	49.12	12.63	54.0	-4.88	AV	H	Pass
5	14900.000	58.08	12.63	74.0	-15.92	Peak	H	Pass
6**	20239.999	48.23	11.71	54.0	-5.77	AV	H	Pass
6	20239.999	58.60	11.71	74.0	-15.40	Peak	H	Pass



802.11 b CH High

Vertical

RE_FCC Test Case_FCC 15C 1GHz-25GHz

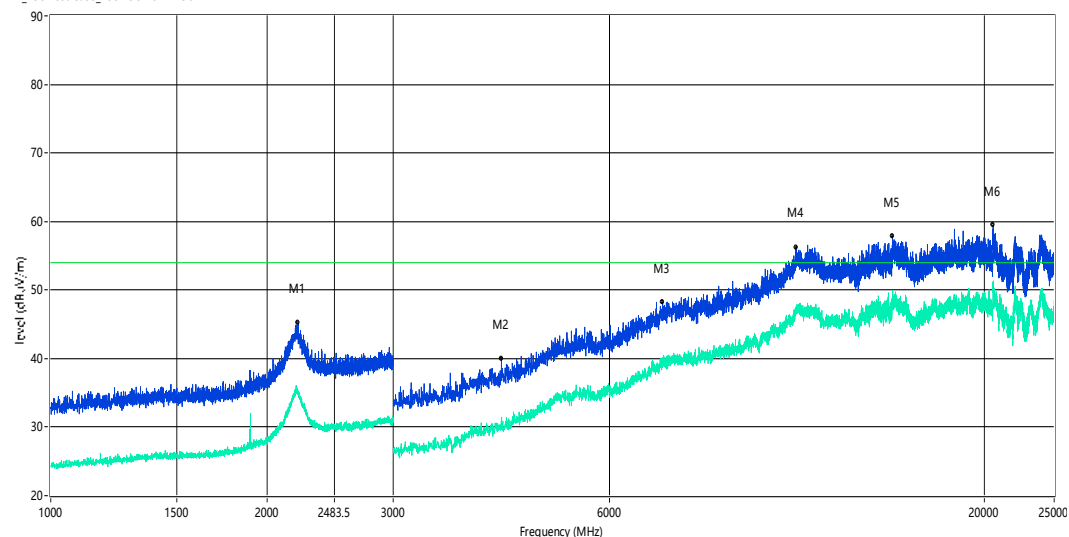


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2199.500	35.26	-7.24	54.0	-18.74	AV	V	Pass
1	2199.500	45.86	-7.24	74.0	-28.14	Peak	V	Pass
2**	3920.000	29.45	-7.96	54.0	-24.55	AV	V	Pass
2	3920.000	39.07	-7.96	74.0	-34.93	Peak	V	Pass
3**	5435.000	34.75	-1.41	54.0	-19.25	AV	V	Pass
3	5435.000	44.53	-1.41	74.0	-29.47	Peak	V	Pass
4**	11530.000	46.93	10.93	54.0	-7.07	AV	V	Pass
4	11530.000	56.65	10.93	74.0	-17.35	Peak	V	Pass
5**	14663.750	47.39	11.77	54.0	-6.61	AV	V	Pass
5	14663.750	58.31	11.77	74.0	-15.69	Peak	V	Pass
6**	18150.500	49.20	12.35	54.0	-4.80	AV	V	Pass
6	18150.500	58.63	12.35	74.0	-15.37	Peak	V	Pass



Horizontal

RE_FCC Test Case_FCC 15C 1GHz-25GHz



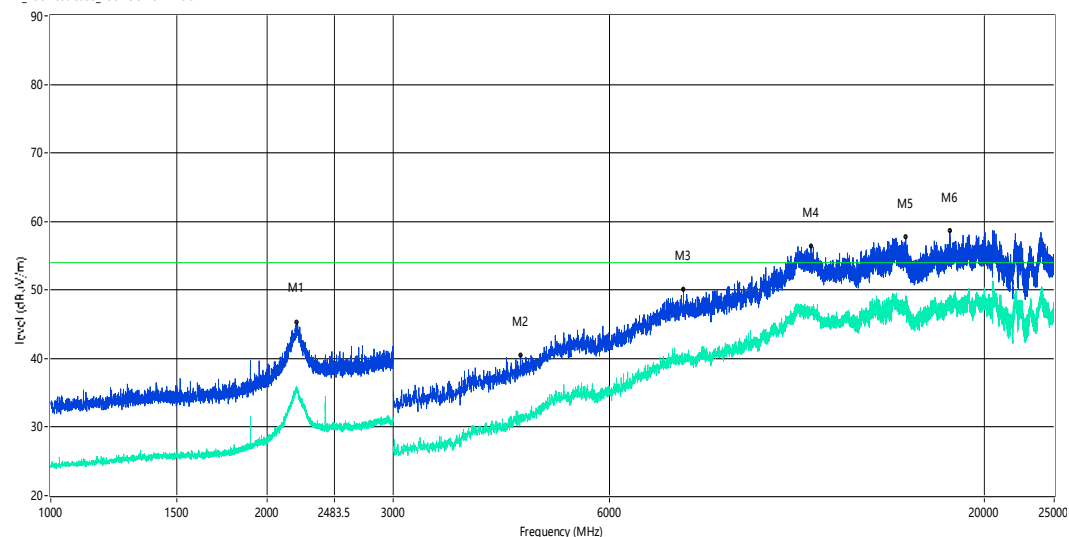
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2210.500	34.94	-7.72	54.0	-19.06	AV	H	Pass
1	2210.500	45.23	-7.72	74.0	-28.77	Peak	H	Pass
2**	4245.000	29.69	-6.44	54.0	-24.31	AV	H	Pass
2	4245.000	39.93	-6.44	74.0	-34.07	Peak	H	Pass
3**	7120.000	39.16	3.93	54.0	-14.84	AV	H	Pass
3	7120.000	48.20	3.93	74.0	-25.80	Peak	H	Pass
4**	10932.500	47.02	10.69	54.0	-6.98	AV	H	Pass
4	10932.500	56.25	10.69	74.0	-17.75	Peak	H	Pass
5**	14882.500	48.97	12.40	54.0	-5.03	AV	H	Pass
5	14882.500	57.79	12.40	74.0	-16.21	Peak	H	Pass
6**	20553.251	50.35	14.10	54.0	-3.65	AV	H	Pass
6	20553.251	59.44	14.10	74.0	-14.56	Peak	H	Pass



802.11 g CH Low

Vertical

RE_FCC Test Case_FCC 15C 1GHz-25GHz

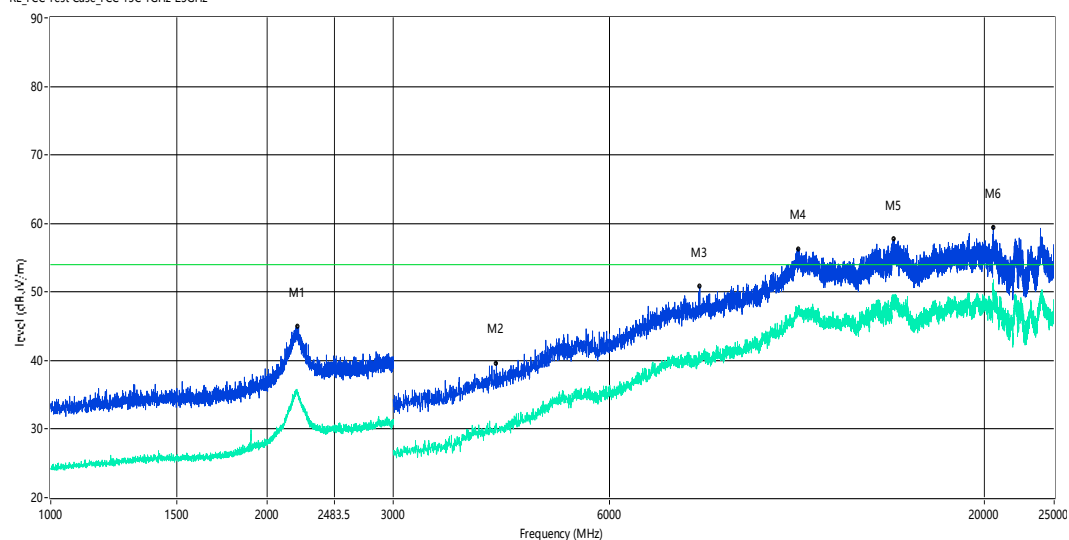


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2204.500	35.02	-7.43	54.0	-18.98	AV	V	Pass
1	2204.500	45.29	-7.43	74.0	-28.71	Peak	V	Pass
2**	4515.000	31.47	-5.63	54.0	-22.53	AV	V	Pass
2	4515.000	40.44	-5.63	74.0	-33.56	Peak	V	Pass
3**	7612.500	39.84	4.74	54.0	-14.16	AV	V	Pass
3	7612.500	50.06	4.74	74.0	-23.94	Peak	V	Pass
4**	11460.000	46.62	10.83	54.0	-7.38	AV	V	Pass
4	11460.000	56.35	10.83	74.0	-17.65	Peak	V	Pass
5**	15530.000	47.94	11.47	54.0	-6.06	AV	V	Pass
5	15530.000	57.67	11.47	74.0	-16.33	Peak	V	Pass
6**	17893.751	47.99	11.92	54.0	-6.01	AV	V	Pass
6	17893.751	58.54	11.92	74.0	-15.46	Peak	V	Pass



Horizontal

RE_FCC Test Case_FCC 15C 1GHz-25GHz

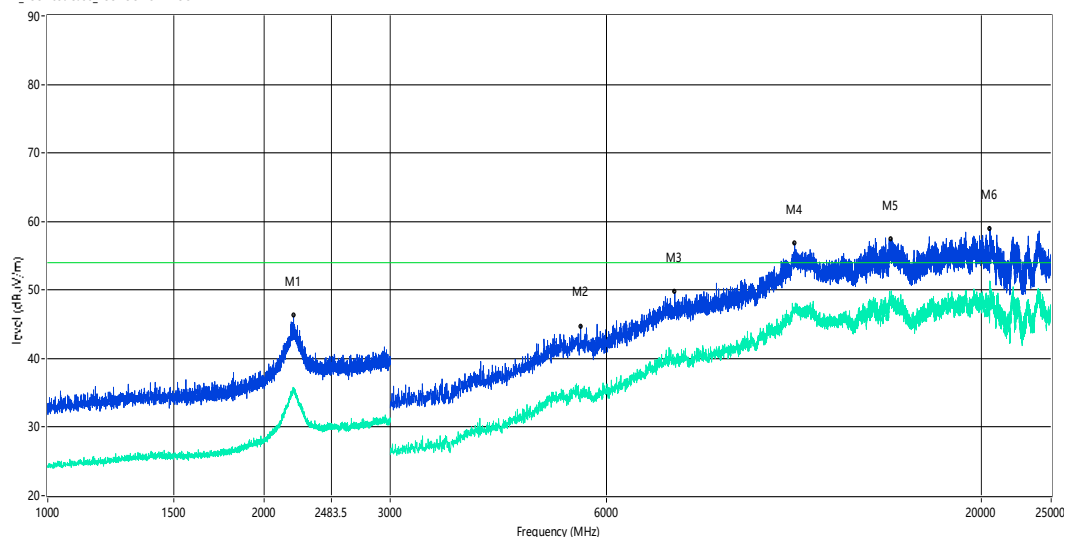


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2209.500	35.30	-7.67	54.0	-18.70	AV	H	Pass
1	2209.500	44.87	-7.67	74.0	-29.13	Peak	H	Pass
2**	4177.500	30.32	-6.54	54.0	-23.68	AV	H	Pass
2	4177.500	39.60	-6.54	74.0	-34.40	Peak	H	Pass
3**	8022.500	40.48	5.02	54.0	-13.52	AV	H	Pass
3	8022.500	50.78	5.02	74.0	-23.22	Peak	H	Pass
4**	11015.000	47.46	10.91	54.0	-6.54	AV	H	Pass
4	11015.000	56.27	10.91	74.0	-17.73	Peak	H	Pass
5**	14956.250	49.62	12.47	54.0	-4.38	AV	H	Pass
5	14956.250	57.66	12.47	74.0	-16.34	Peak	H	Pass
6**	20563.751	50.44	14.12	54.0	-3.56	AV	H	Pass
6	20563.751	59.37	14.12	74.0	-14.63	Peak	H	Pass



802.11 g CH Middle vertical

RE_FCC Test Case_FCC 15C 1GHz-25GHz

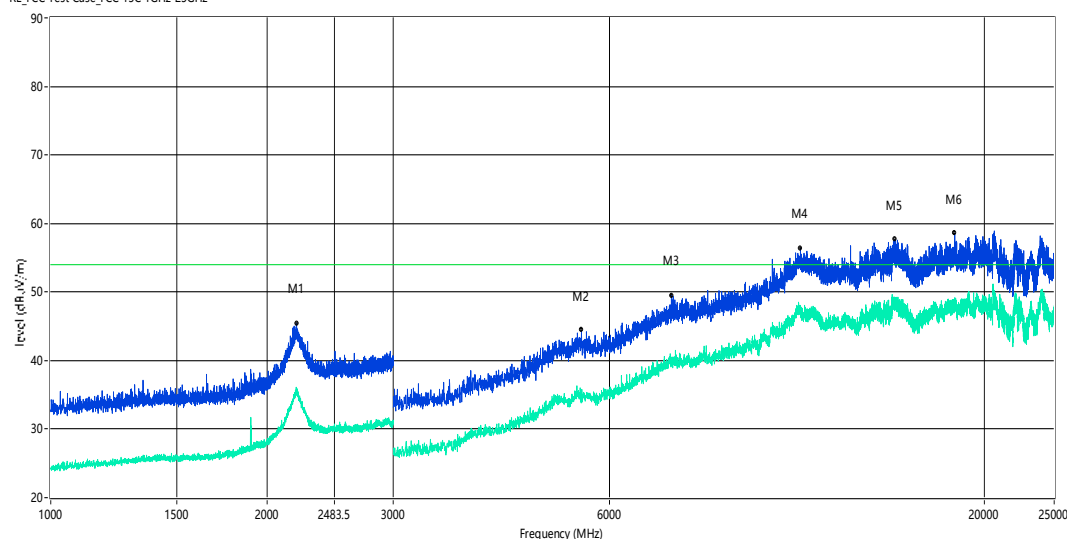


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2200.500	35.54	-7.23	54.0	-18.46	AV	V	Pass
1	2200.500	46.23	-7.23	74.0	-27.77	Peak	V	Pass
2**	5525.000	34.65	-1.45	54.0	-19.35	AV	V	Pass
2	5525.000	44.67	-1.45	74.0	-29.33	Peak	V	Pass
3**	7475.000	40.24	4.50	54.0	-13.76	AV	V	Pass
3	7475.000	49.68	4.50	74.0	-24.32	Peak	V	Pass
4**	10980.000	46.91	10.89	54.0	-7.09	AV	V	Pass
4	10980.000	56.76	10.89	74.0	-17.24	Peak	V	Pass
5**	14967.500	48.50	12.44	54.0	-5.50	AV	V	Pass
5	14967.500	57.35	12.44	74.0	-16.65	Peak	V	Pass
6**	20560.251	50.32	14.11	54.0	-3.68	AV	V	Pass
6	20560.251	58.95	14.11	74.0	-15.05	Peak	V	Pass



Horizontal

RE_FCC Test Case_FCC 15C 1GHz-25GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	ANT	Verdict
1**	2200.500	35.94	-7.23	54.0	-18.06	AV	H	Pass
1	2200.500	45.42	-7.23	74.0	-28.58	Peak	H	Pass
2**	5487.500	35.08	-1.53	54.0	-18.92	AV	H	Pass
2	5487.500	44.41	-1.53	74.0	-29.59	Peak	H	Pass
3**	7322.500	40.07	4.47	54.0	-13.93	AV	H	Pass
3	7322.500	49.51	4.47	74.0	-24.49	Peak	H	Pass
4**	11077.500	47.38	10.64	54.0	-6.62	AV	H	Pass
4	11077.500	56.41	10.64	74.0	-17.59	Peak	H	Pass
5**	15011.250	47.79	12.17	54.0	-6.21	AV	H	Pass
5	15011.250	57.67	12.17	74.0	-16.33	Peak	H	Pass
6**	18175.001	48.17	12.25	54.0	-5.83	AV	H	Pass
6	18175.001	58.58	12.25	74.0	-15.42	Peak	H	Pass