

FCC RADIO TEST REPORT

FCC ID: 2A2CZ-E134

Product: V2 Two-in-One Tablet

Trade Mark: N/A

Model No.: E134

Family Model: N/A

Report No.: S21091502703004

Issue Date: Oct 14. 2021

Prepared for

Emdoor digital technology Co.,Ltd
Meigu bld, Wonderful life wisdom Valley technology Park,
No.83 Dabao road, Baoan district, Shenzhen,China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Emdoor digital technology Co.,Ltd

Address : Meigu bld, Wonderful life wisdom Valley technology Park,
No.83 Dabao road, Baoan district, Shenzhen,China

Manufacturer's Name..... : Jenesis Technology (Shenzhen) Co., LTD

Address : 401-1, Building 2, Workshop, Runheng Industrial Zone, No. 1, Liuxian
Third Road, Xingdong Community, Xin 'an Street, Bao 'an District,
Shenzhen

Product description

Product name..... : V2 Two-in-One Tablet

Model and/or type reference : E134

Family Model..... : E134-001,E134-002,E134-003,E134-004,E134-005,
E134-006,E134-007,E134-008,E134-009,E134-010,
E134-011,E134-012,E134-013,E134-014,E134-015,
E134-016,E134-017,E134-018,E134-019,E134-020,
E134-021,E134-022,E134-023,E134-024,E134-025,
E134-026,E134-027,E134-028,E134-029,E134-030

Standards..... : FCC Part15.407

Test procedure ANSI C63.10-2013 and KDB 789033 D02 General UNII Test Procedures
New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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

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Date of Test

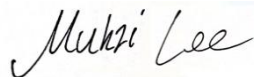
Date (s) of performance of tests Sep 15. 2021 ~Oct 14. 2021

Date of Issue Oct 14. 2021

Test Result..... **Pass**

Testing Engineer

:



(Mukzi Lee)

Authorized Signatory

:



(Alex Li)

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Revision History

[illegible]

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

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

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) This device operates with a duty cycle greater than 99%
- (3) The product is a client device, and the data transmission is limited by the AP.
When the information to be sent is missing or the operation fails,
the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China

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

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

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

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

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

A2LA-Lab. : The Certificate Registration Number is 4298.01

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

Site Location : 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^{\circ}\text{C}$
8	Humidity	$\pm 2\%$

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	V2 Two-in-One Tablet	
Trade Mark	N/A	
Model Name	E134	
Family Model	Refer ot page 2	
Model Difference	All the model are the same circuit and RF module,except the model names and different sales channels	
FCC ID	2A2CZ-E134	
Product Description	Mode Supported	☒ 802.11a ☒ 802.11n(HT20) ☒ 802.11n(HT40) ☒ 802.11ac(HT20) ☒ 802.11ac(HT40) ☒ 802.11ac(HT80) ☒ 802.11ac(HT160) ☒ 802.11ax(HT20) ☒ 802.11ax(HT40) ☒ 802.11ax(HT80) ☒ 802.11ax(HT160)
	Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9 802.11ac (160MHz): MCS0-9, up to 1732Mbps 802.11ax (20MHz): MCS0-11, up to 286.8Mbps 802.11ax (40MHz): MCS0-11, up to 573.5Mbps 802.11ax (80MHz): MCS0-11, up to 1201Mbps 802.11ax (160MHz): MCS0-11, up to 2402Mbps
	Modulation	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
	Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Type	Antenna 1: FPCB antenna Antenna 2: FPCB antenna
	Antenna Gain	Antenna 1: 1.58dBi Antenna 2: 1.58dBi
	Smart system	☒ SISO for 802.11a/n/ac/ax ☒ MIMO for 802.11n/ac/ax
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Ratings	DC 11.55V from battery or DC 20V from Adapter.	

Adapter	☒ Adapter supply: Model: SOY-65W-271EU Input: AC 100-240V~50/60Hz 1.7A MAX Output: DC 5V---3.0A, DC 9V---3.0A, DC 12V---3.0A, DC 15V---3.0A, DC 20V---3.25A 65.0W
Battery	DC 11.55V, 3580mAh, 13.78Wh
Connecting I/O Port(s)	Please refer to the User's Manual
HW Version	EEM_E134_M_V2.0
SW Version	TGL_E134_V4.1.9_T1F8G1D3_20210809

Note:

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

Band	20MHz		40MHz		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-2C	100	5500 MHz	102	5510 MHz	106	5530 MHz
	104	5520 MHz	110	5550 MHz	122	5610 MHz
	108	5540 MHz	118	5590 MHz		
	112	5560 MHz	126	5630 MHz		
	116	5580 MHz	134	5670 MHz		
	120	5600 MHz				
	124	5620 MHz				
	128	5640 MHz				
	132	5660 MHz				
	136	5680 MHz				
U-NII-3	140	5700 MHz				
	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

Table for Filed Antenna

Antenna	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB antenna	IPEX	1.58	Wifi Antenna
2	N/A	N/A	FPCB antenna	IPEX	1.58	Wifi Antenna

Mode	Tx/Rx
802.11a	1TX, 1RX
802.11n/ac	1TX/2TX, 1RX/2RX

For power measurements: Directional gain= G_{ANT} + Array Gain=1.58dBi + 0 = 1.58dBi

For power spectral density (PSD) measurements: Directional gain= G_{ANT} + Array Gain=1.58dBi + 3.01 = 4.59dBi

Note: G_{ANT} means antenna gain for the same gain in dBi.

For power spectral density (PSD) measurements: Array Gain = $10\log(N_{ANT}/N_{SS})$ dB.

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths

For power measurements: with $N_{ANT} \geq 5$.

N_{ANT} = number of transmit antennas and

N_{SS} = number of spatial streams. (Assume $N_{SS} = 1$ unless you have specific information to the contrary.)

1.2 DESCRIPTION OF TEST MODES

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

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20/ax20 CH36/ CH40/ CH48/CH52/CH56/CH64/CH100/CH120/CH140/CH149/ CH157/CH165
Mode 3	802.11n40/ac40/ax40 CH38/CH46/CH54/CH62/CH102/CH118/CH134/CH151/ CH159
Mode 4	802.11ac80/ax80 CH42/CH58/CH106/CH122/CH155
Mode 5	802.11ac160/ax160 CH50/CH114

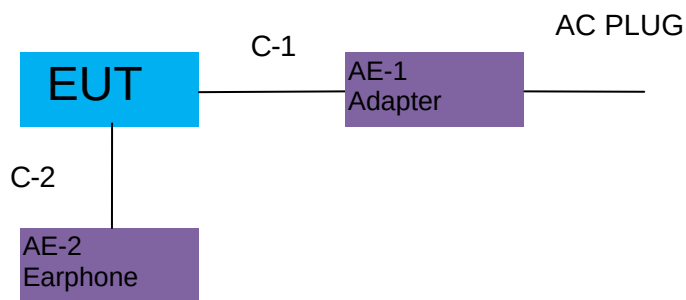
For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac20/ax20 CH36/ CH40/ CH48/CH52/CH56/CH64/CH100/CH120/CH140/CH149/ CH157/CH165
Mode 3	802.11n40/ac40/ax40 CH38/CH46/CH54/CH62/CH102/CH118/CH134/CH151/ CH159
Mode 4	802.11ac80/ax80 CH42/CH58/CH106/CH122/CH155
Mode 5	802.11ac160/ax160 CH50/CH114

Note:

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

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

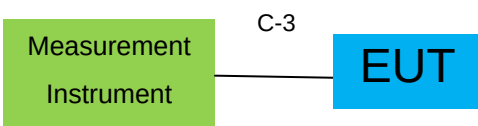
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



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

1.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	SOY-65W-271US	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	2.0m	C-1
C-2	Earphone Cable	NO	NO	1.2m	C-2
C-3	RF Cable	YES	NO	0.1m	C-3

Note:

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

1.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
8	Amplifier	EMC	EMC051835SE	980246	2021.07.01	2022.06.30	1 year
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2020.11.19	2021.11.18	1 year
10	Power Meter	DARE	RPR3006W	15100041SN084	2021.07.01	2022.06.30	1 year
11	USB RF Power Sensor	DARE	RPR3006W	15100041SN084	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.04.27	2022.04.26	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
18	Low Noise Amplifier	B&Z	BZ-P540-550850-452727	16476-11729	2021.04.27	2022.04.26	1 year
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2020.11.19	2021.11.18	1 year
20	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2021.04.27	2022.04.26	1 year

Note:

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

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

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

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

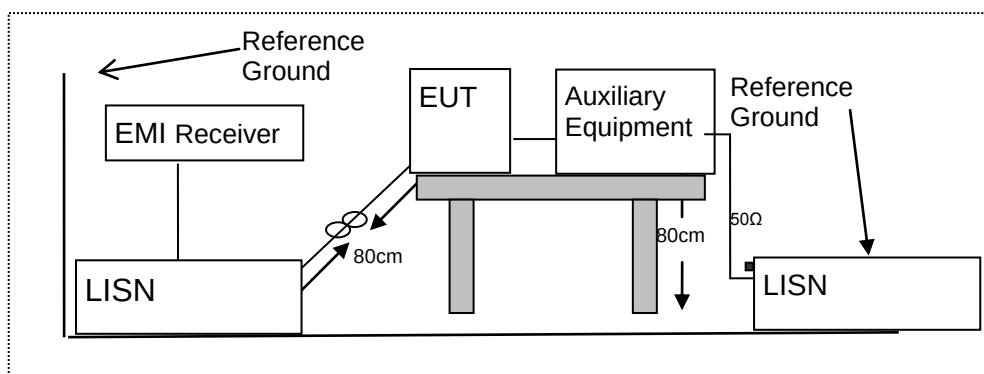
According to FCC Part 15.207(a)

2.1.2 CONFORMANCE LIMIT

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

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

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

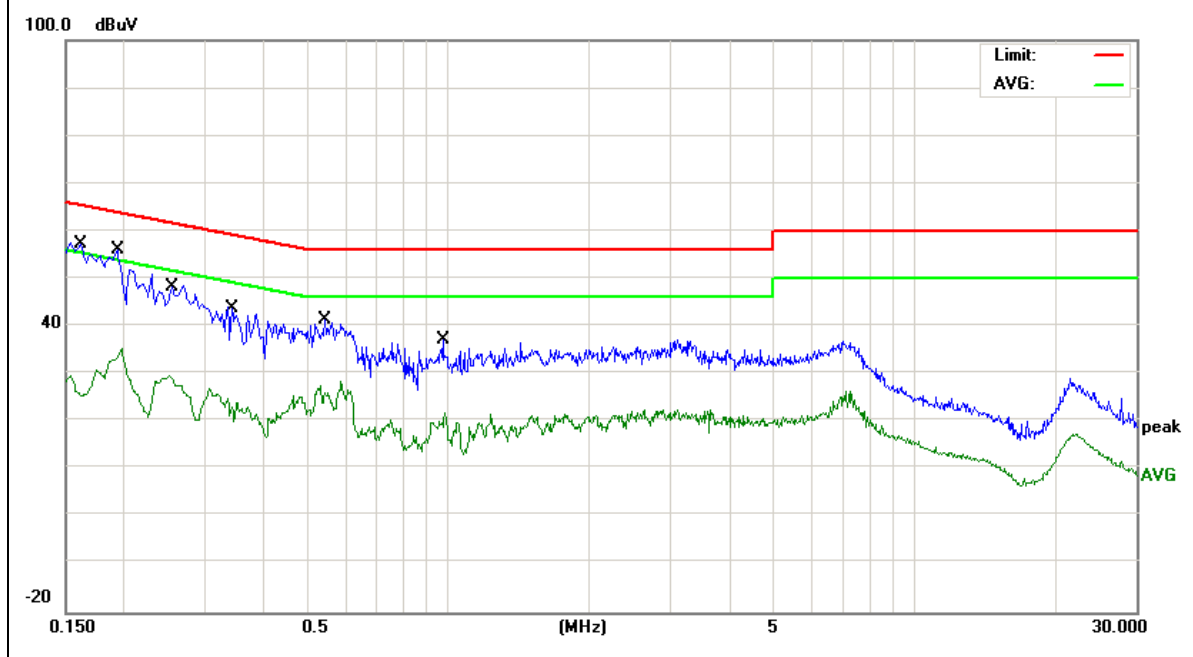
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The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

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	16.59	9.71	26.30	55.36	-29.06	AVG
0.1620	47.46	9.71	57.17	65.36	-8.19	QP
0.1943	45.08	9.64	54.72	63.85	-9.13	QP
0.1943	25.63	9.64	35.27	53.85	-18.58	AVG
0.2540	19.99	9.63	29.62	51.62	-22.00	AVG
0.2540	38.57	9.63	48.20	61.62	-13.42	QP
0.3420	34.03	9.63	43.66	59.15	-15.49	QP
0.3420	14.45	9.63	24.08	49.15	-25.07	AVG
0.5420	17.87	9.66	27.53	46.00	-18.47	AVG
0.5420	31.76	9.66	41.42	56.00	-14.58	QP
0.9699	27.42	9.75	37.17	56.00	-18.83	QP
0.9699	12.20	9.75	21.95	46.00	-24.05	AVG

Remark:

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

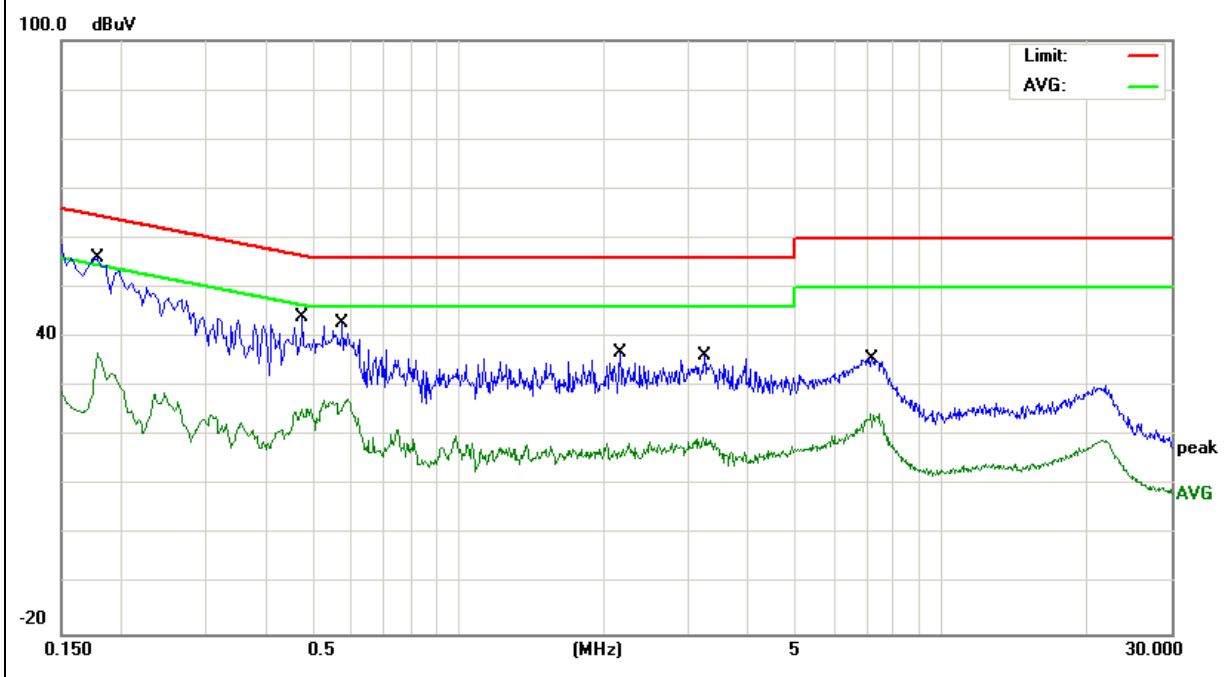


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1780	46.35	9.63	55.98	64.57	-8.59	QP
0.1780	27.33	9.63	36.96	54.57	-17.61	AVG
0.4740	34.19	9.73	43.92	56.44	-12.52	QP
0.4740	15.84	9.73	25.57	46.44	-20.87	AVG
0.5740	33.16	9.70	42.86	56.00	-13.14	QP
0.5740	17.86	9.70	27.56	46.00	-18.44	AVG
2.1619	27.24	9.67	36.91	56.00	-19.09	QP
2.1619	8.97	9.67	18.64	46.00	-27.36	AVG
3.2260	9.92	9.73	19.65	46.00	-26.35	AVG
3.2260	26.57	9.73	36.30	56.00	-19.70	QP
7.1779	25.86	9.79	35.65	60.00	-24.35	QP
7.1779	14.88	9.79	24.67	50.00	-25.33	AVG

Remark:

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

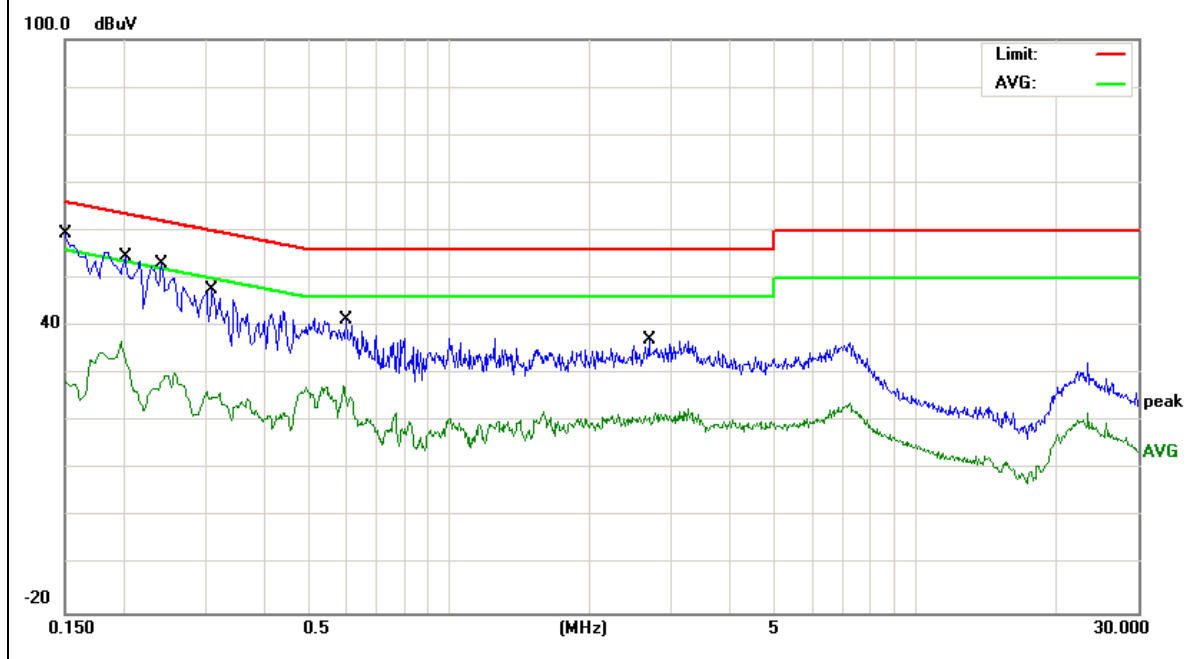


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1516	18.73	9.73	28.46	55.91	-27.45	AVG
0.1516	48.36	9.73	58.09	65.91	-7.82	QP
0.2020	26.58	9.63	36.21	53.52	-17.31	AVG
0.2020	44.77	9.63	54.40	63.52	-9.12	QP
0.2420	43.50	9.63	53.13	62.02	-8.89	QP
0.2420	18.90	9.63	28.53	52.02	-23.49	AVG
0.3100	37.87	9.63	47.50	59.97	-12.47	QP
0.3100	15.67	9.63	25.30	49.97	-24.67	AVG
0.6020	18.00	9.69	27.69	46.00	-18.31	AVG
0.6020	31.52	9.69	41.21	56.00	-14.79	QP
2.6900	27.49	9.73	37.22	56.00	-18.78	QP
2.6900	11.30	9.73	21.03	46.00	-24.97	AVG

Remark:

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

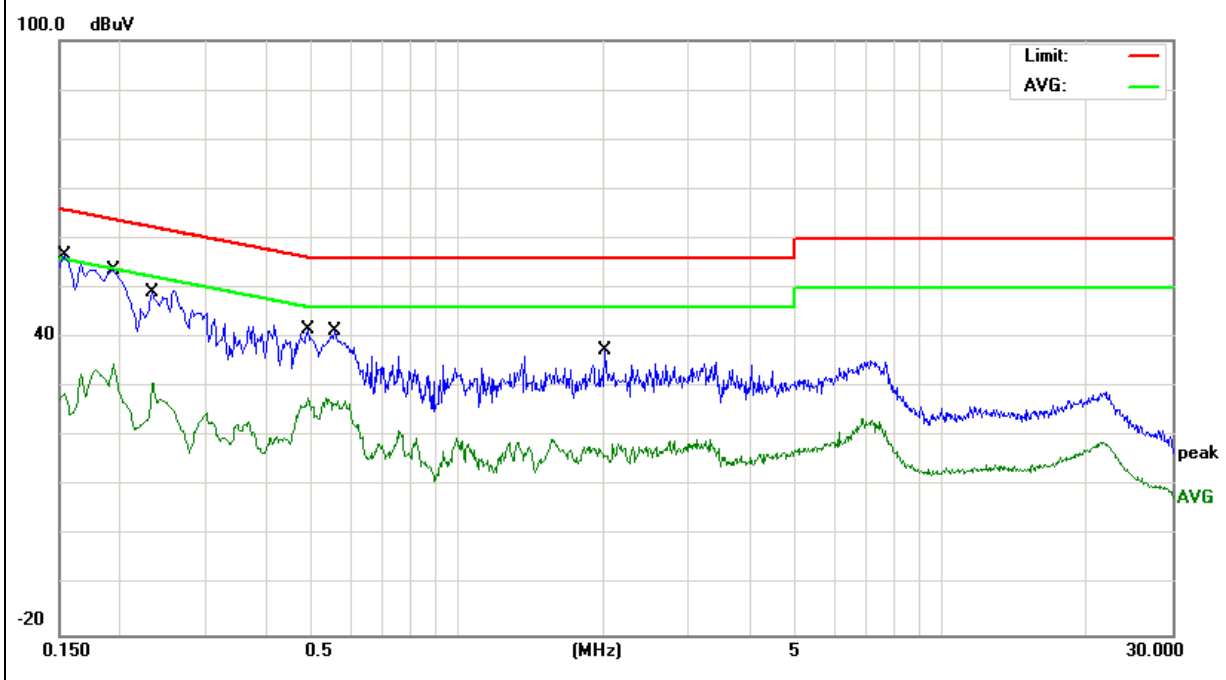


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	47.03	9.63	56.66	65.78	-9.12	QP
0.1539	19.23	9.63	28.86	55.78	-26.92	AVG
0.1940	44.06	9.63	53.69	63.86	-10.17	QP
0.1940	25.20	9.63	34.83	53.86	-19.03	AVG
0.2340	39.43	9.64	49.07	62.30	-13.23	QP
0.2340	21.27	9.64	30.91	52.30	-21.39	AVG
0.4900	31.86	9.74	41.60	56.17	-14.57	QP
0.4900	18.21	9.74	27.95	46.17	-18.22	AVG
0.5580	31.56	9.71	41.27	56.00	-14.73	QP
0.5580	17.43	9.71	27.14	46.00	-18.86	AVG
2.0220	7.19	9.66	16.85	46.00	-29.15	AVG
2.0220	27.83	9.66	37.49	56.00	-18.51	QP

Remark:

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

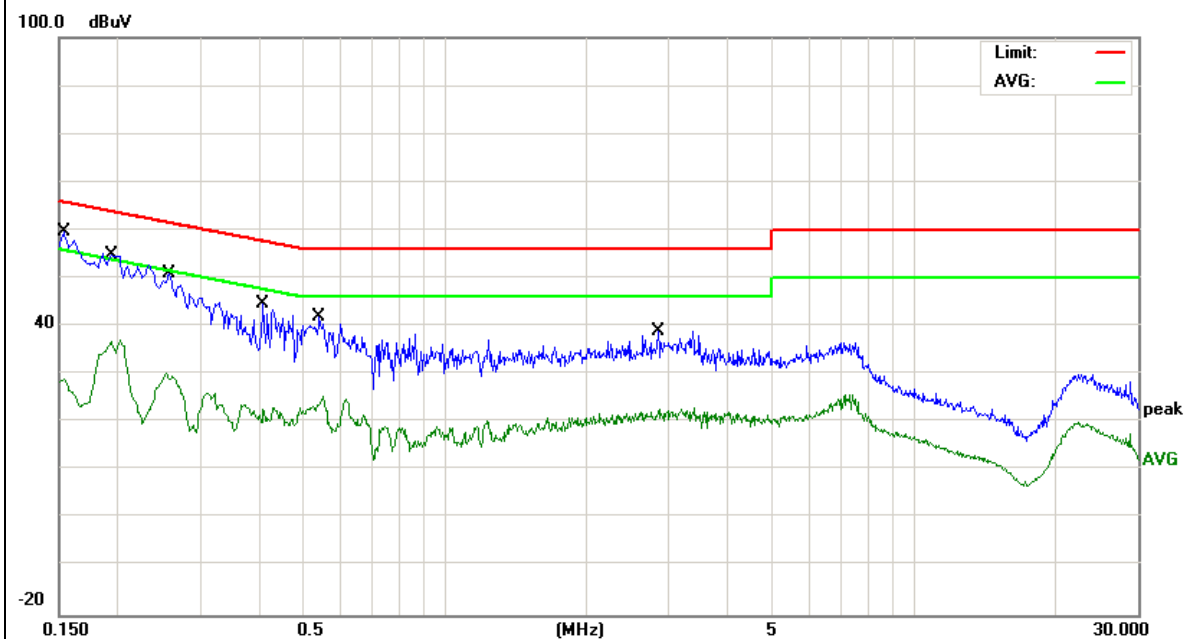


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	49.95	9.72	59.67	65.78	-6.11	QP
0.1539	19.47	9.72	29.19	55.78	-26.59	AVG
0.1940	45.19	9.64	54.83	63.86	-9.03	QP
0.1940	27.33	9.64	36.97	53.86	-16.89	AVG
0.2580	41.25	9.63	50.88	61.49	-10.61	QP
0.2580	20.62	9.63	30.25	51.49	-21.24	AVG
0.4099	34.90	9.64	44.54	57.65	-13.11	QP
0.4099	13.16	9.64	22.80	47.65	-24.85	AVG
0.5380	32.16	9.66	41.82	56.00	-14.18	QP
0.5380	15.92	9.66	25.58	46.00	-20.42	AVG
2.8460	29.27	9.73	39.00	56.00	-17.00	QP
2.8460	12.97	9.73	22.70	46.00	-23.30	AVG

Remark:

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

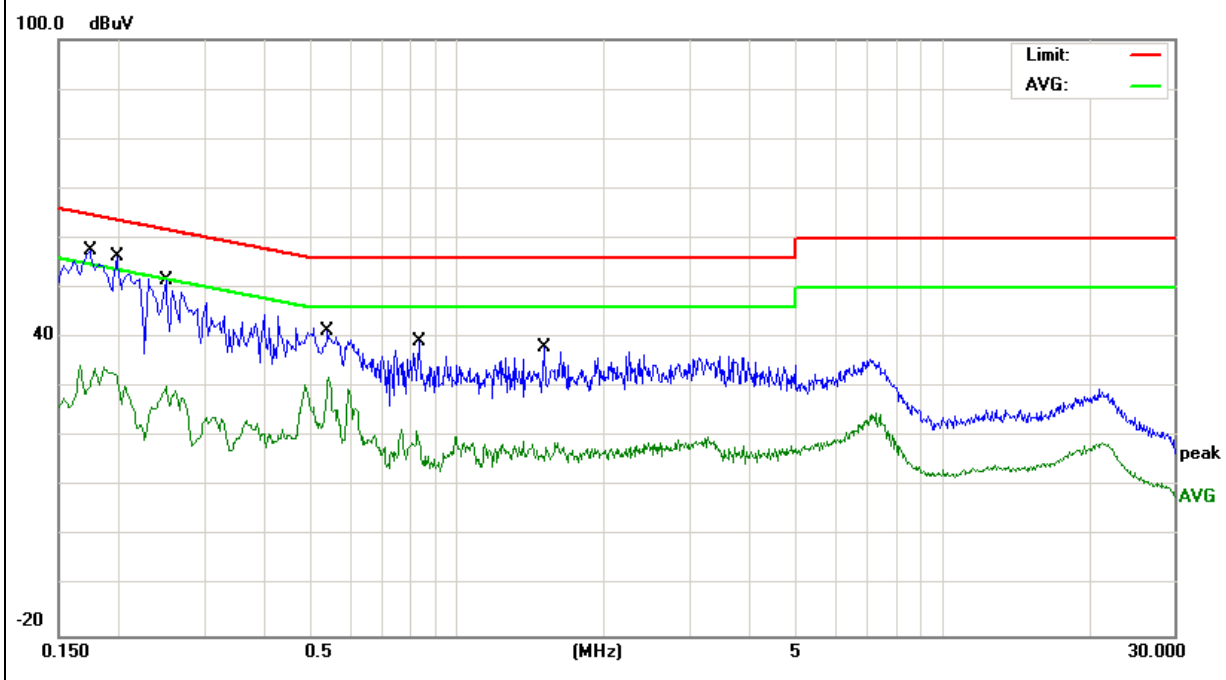


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1740	48.00	9.63	57.63	64.76	-7.13	QP
0.1749	21.40	9.63	31.03	54.72	-23.69	AVG
0.1980	22.87	9.63	32.50	53.69	-21.19	AVG
0.1980	46.78	9.63	56.41	63.69	-7.28	QP
0.2500	42.01	9.65	51.66	61.75	-10.09	QP
0.2500	20.51	9.65	30.16	51.75	-21.59	AVG
0.5380	31.71	9.72	41.43	56.00	-14.57	QP
0.5380	22.31	9.72	32.03	46.00	-13.97	AVG
0.8340	11.52	9.68	21.20	46.00	-24.80	AVG
0.8340	29.70	9.68	39.38	56.00	-16.62	QP
1.5100	28.38	9.71	38.09	56.00	-17.91	QP
1.5100	8.28	9.71	17.99	46.00	-28.01	AVG

Remark:

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

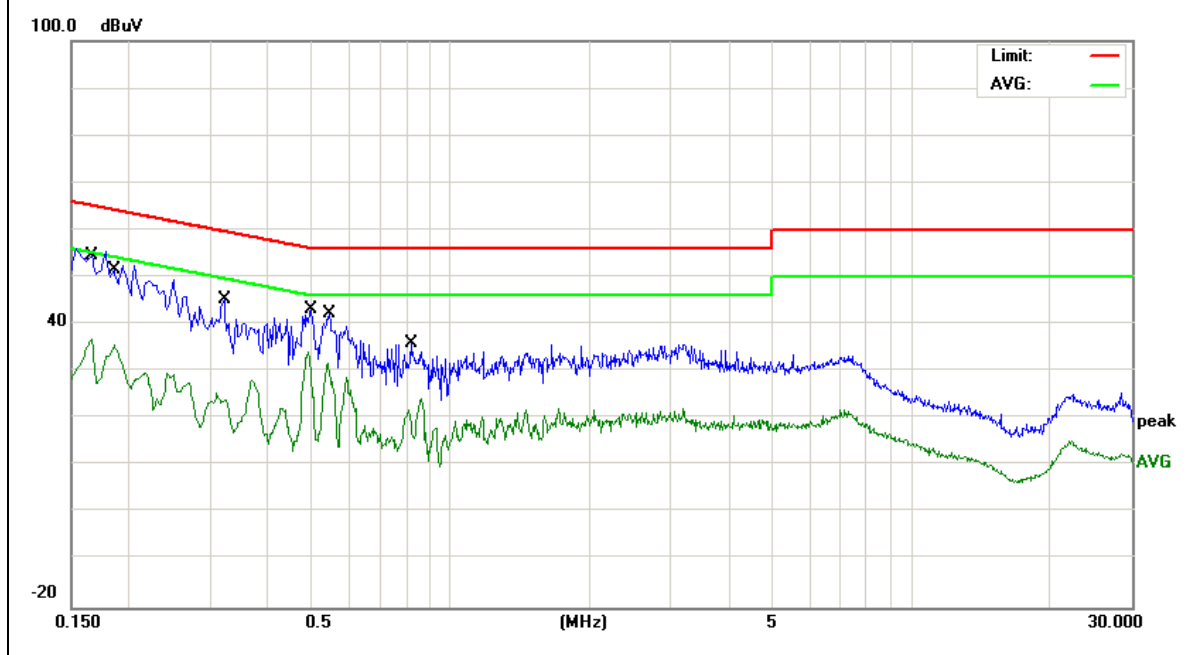


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1660	44.80	9.70	54.50	65.15	-10.65	QP
0.1660	27.24	9.70	36.94	55.15	-18.21	AVG
0.1860	41.77	9.66	51.43	64.21	-12.78	QP
0.1860	25.98	9.66	35.64	54.21	-18.57	AVG
0.3220	35.71	9.63	45.34	59.65	-14.31	QP
0.3220	14.30	9.63	23.93	49.65	-25.72	AVG
0.4980	24.50	9.64	34.14	46.03	-11.89	AVG
0.4980	33.53	9.64	43.17	56.03	-12.86	QP
0.5420	22.15	9.66	31.81	46.00	-14.19	AVG
0.5420	32.46	9.66	42.12	56.00	-13.88	QP
0.8180	12.13	9.74	21.87	46.00	-24.13	AVG
0.8180	26.24	9.74	35.98	56.00	-20.02	QP

Remark:

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

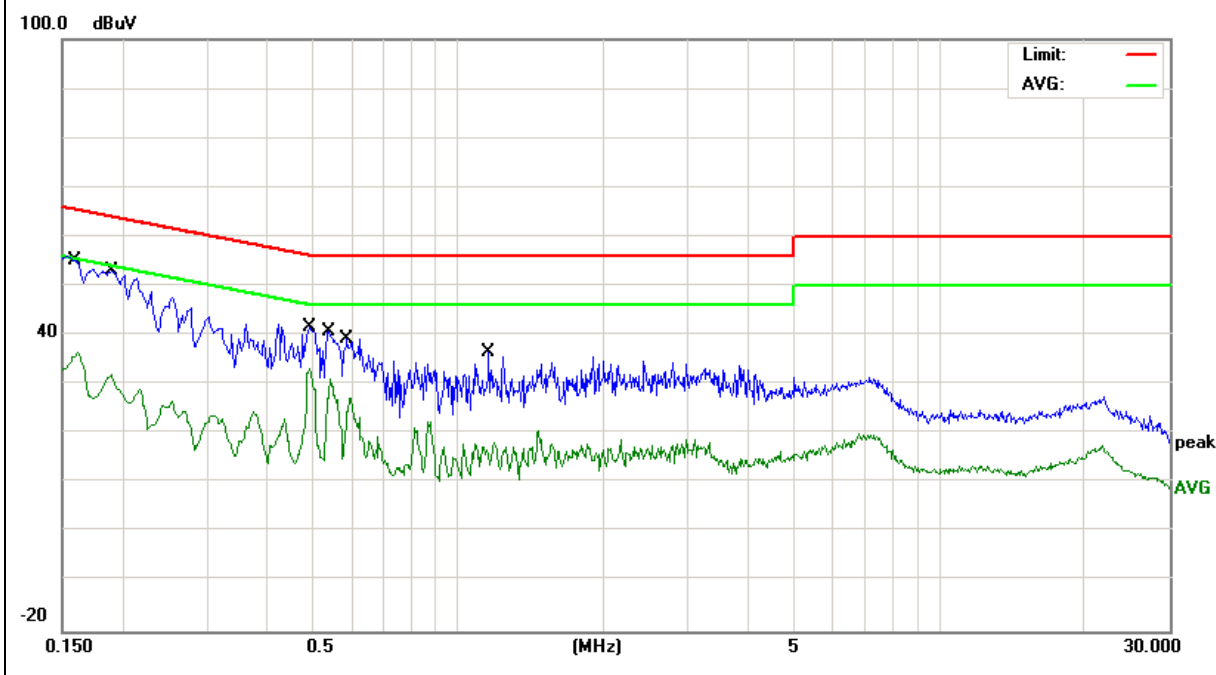


EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 20V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1607	45.35	9.63	54.98	65.42	-10.44	QP
0.1607	26.79	9.63	36.42	55.42	-19.00	AVG
0.1900	43.51	9.63	53.14	64.03	-10.89	QP
0.1900	22.53	9.63	32.16	54.03	-21.87	AVG
0.4900	32.00	9.74	41.74	56.17	-14.43	QP
0.4900	23.59	9.74	33.33	46.17	-12.84	AVG
0.5380	31.18	9.72	40.90	56.00	-15.10	QP
0.5380	21.32	9.72	31.04	46.00	-14.96	AVG
0.5860	29.41	9.70	39.11	56.00	-16.89	QP
0.5860	17.57	9.70	27.27	46.00	-18.73	AVG
1.1539	26.69	9.73	36.42	56.00	-19.58	QP
1.1539	8.37	9.73	18.10	46.00	-27.90	AVG

Remark:

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



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

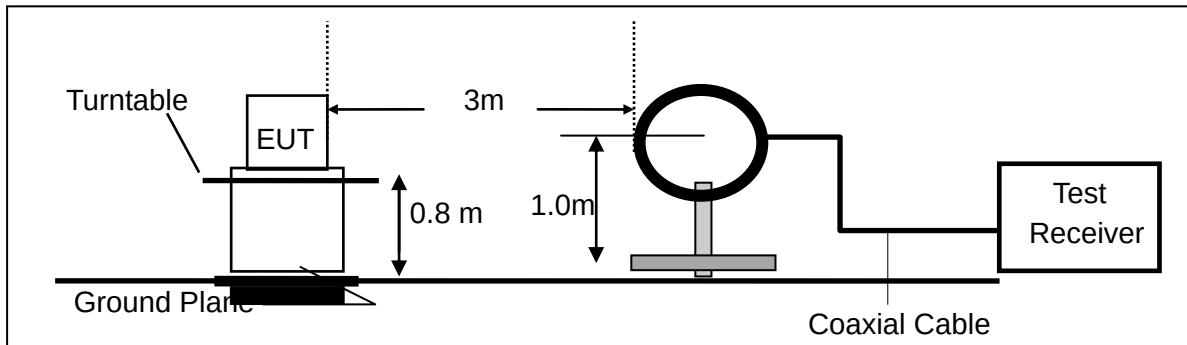
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.2.3 MEASURING INSTRUMENTS

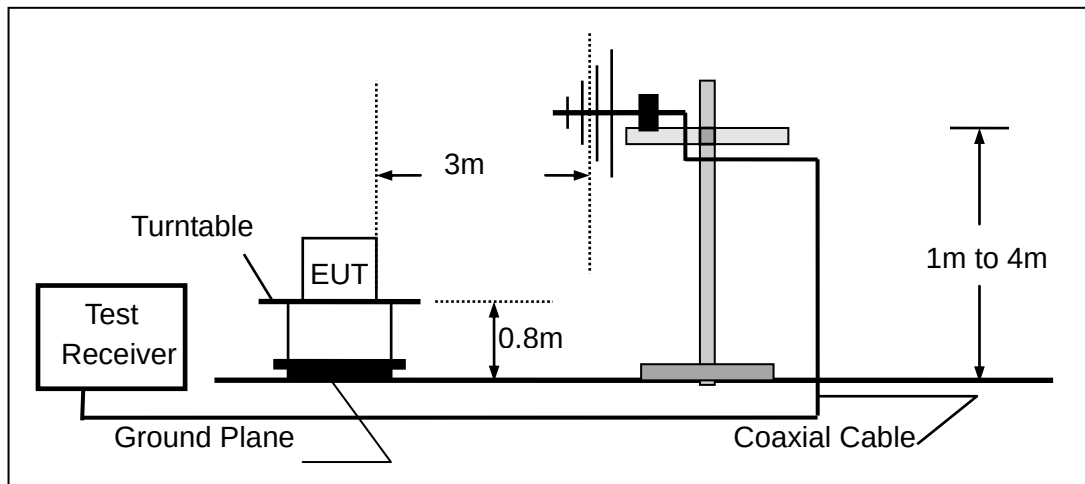
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

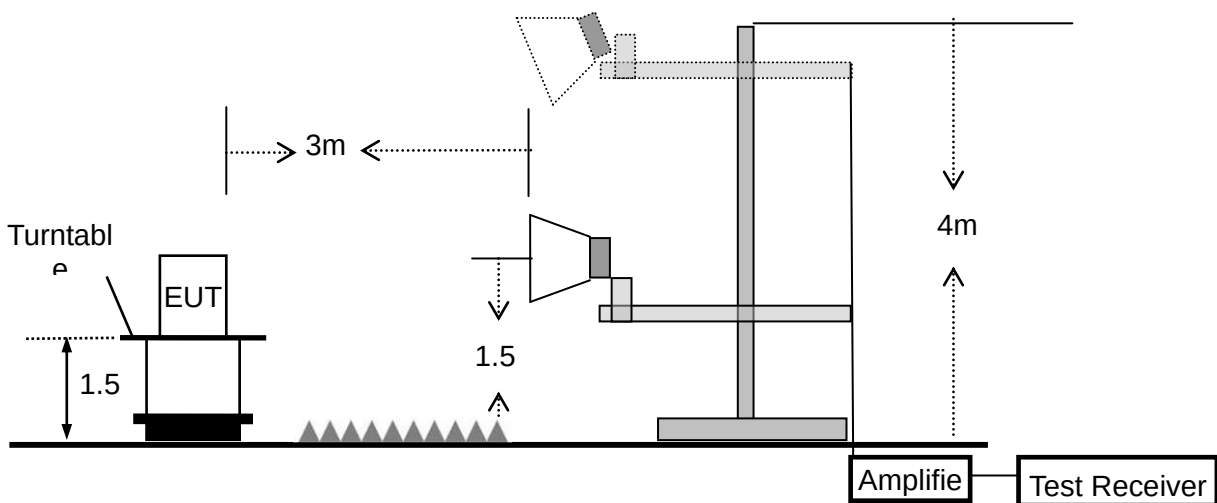
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



2.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

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

Use the following spectrum analyzer settings:

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

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

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

Note:

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

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

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

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

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX	Polarization :	--

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

NOTE:

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

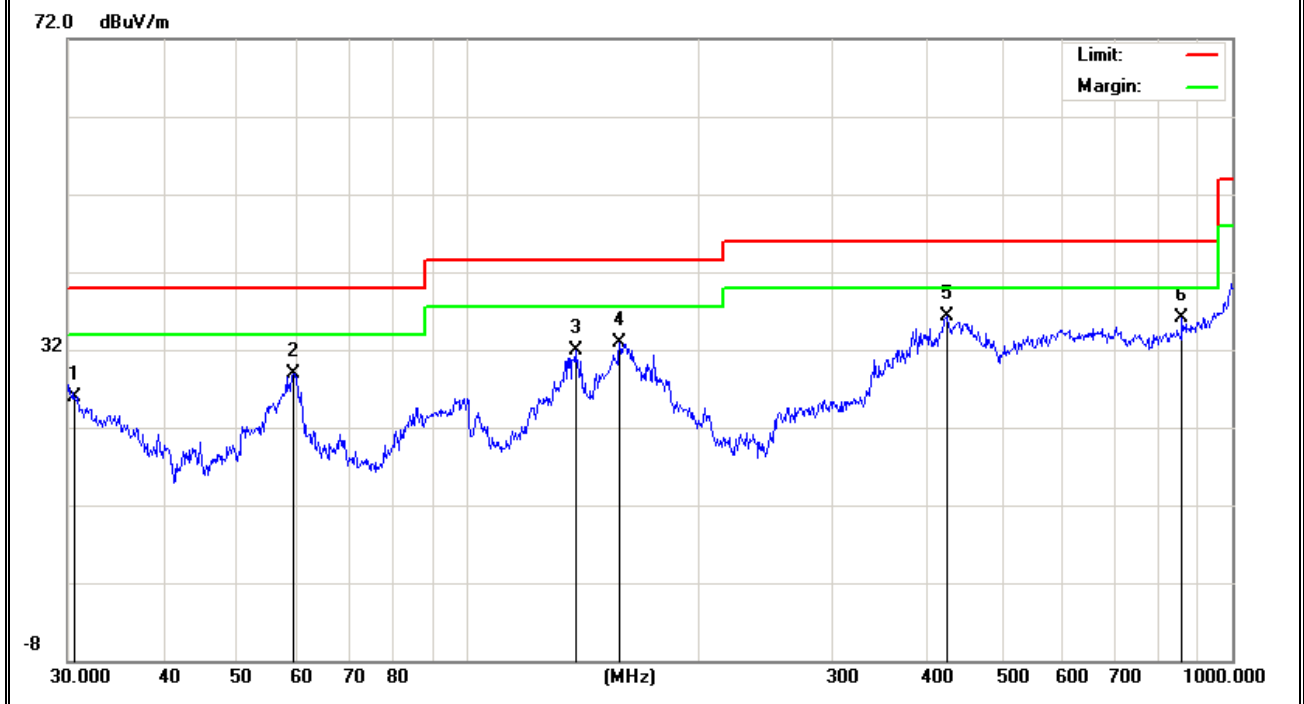
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.2G)- 802.11a (Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.6371	1.26	24.58	25.84	40.00	-14.16	QP
V	59.2325	17.49	11.48	28.97	40.00	-11.03	QP
V	138.3873	13.09	18.86	31.95	43.50	-11.55	QP
V	158.1123	14.86	18.13	32.99	43.50	-10.51	QP
V	423.5403	11.72	24.51	36.23	46.00	-9.77	QP
V	860.0352	3.91	32.29	36.20	46.00	-9.80	QP

Remark:

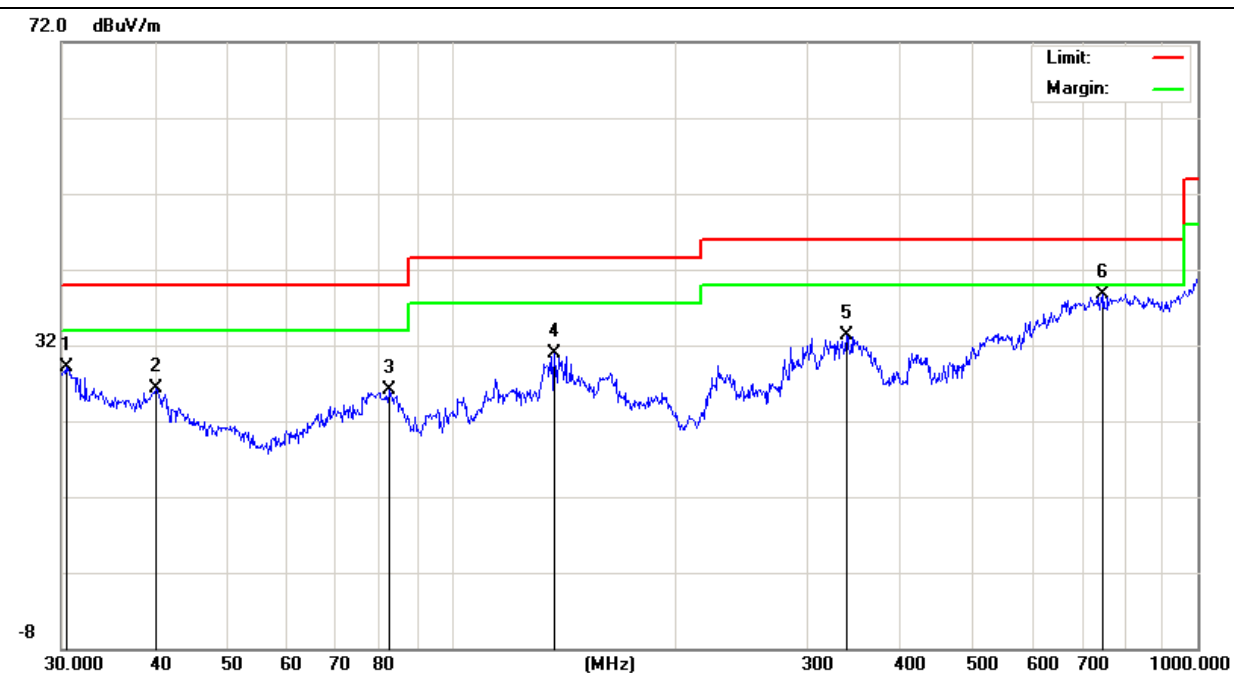
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.4237	4.21	24.80	29.01	40.00	-10.99	QP
H	40.1347	7.39	18.88	26.27	40.00	-13.73	QP
H	82.6482	11.66	14.39	26.05	40.00	-13.95	QP
H	137.4199	12.19	18.73	30.92	43.50	-12.58	QP
H	338.4001	10.93	22.35	33.28	46.00	-12.72	QP
H	747.4825	8.67	29.94	38.61	46.00	-7.39	QP

Remark:

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

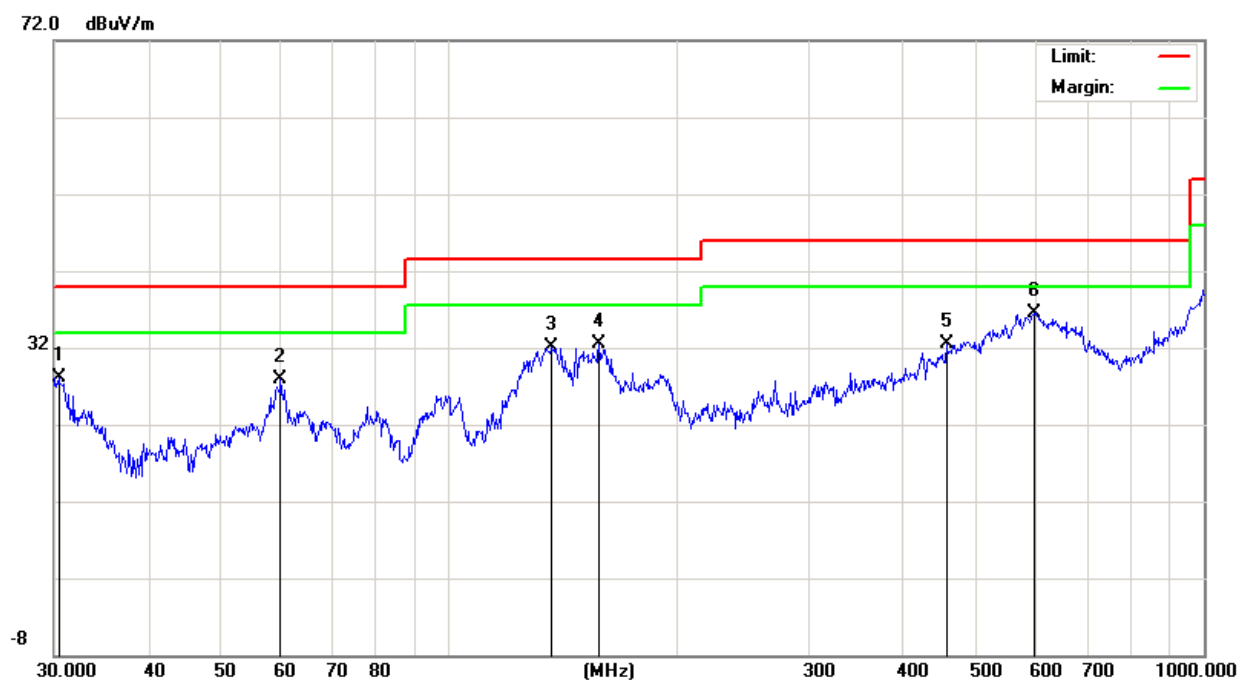


EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.3G)- 802.11a (Middle CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.4237	3.24	24.80	28.04	40.00	-11.96	QP
V	59.8588	16.67	11.29	27.96	40.00	-12.04	QP
V	136.9387	13.55	18.65	32.20	43.50	-11.30	QP
V	158.1123	14.36	18.13	32.49	43.50	-11.01	QP
V	455.9057	7.29	25.28	32.57	46.00	-13.43	QP
V	597.2232	8.19	28.25	36.44	46.00	-9.56	QP

Remark:

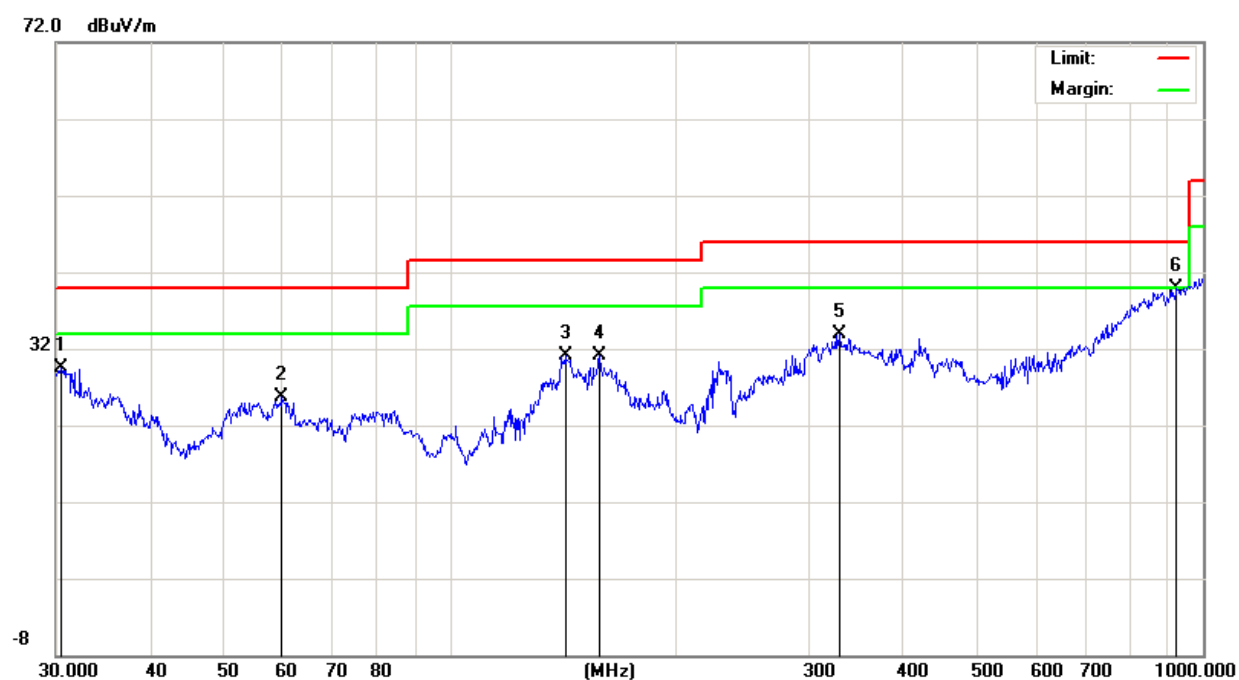
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.5304	4.89	24.69	29.58	40.00	-10.42	QP
H	59.8588	14.39	11.29	25.68	40.00	-14.32	QP
H	142.3240	12.32	18.74	31.06	43.50	-12.44	QP
H	158.1123	13.03	18.13	31.16	43.50	-12.34	QP
H	329.0389	11.88	22.06	33.94	46.00	-12.06	QP
H	922.5157	7.53	32.30	39.83	46.00	-6.17	QP

Remark:

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

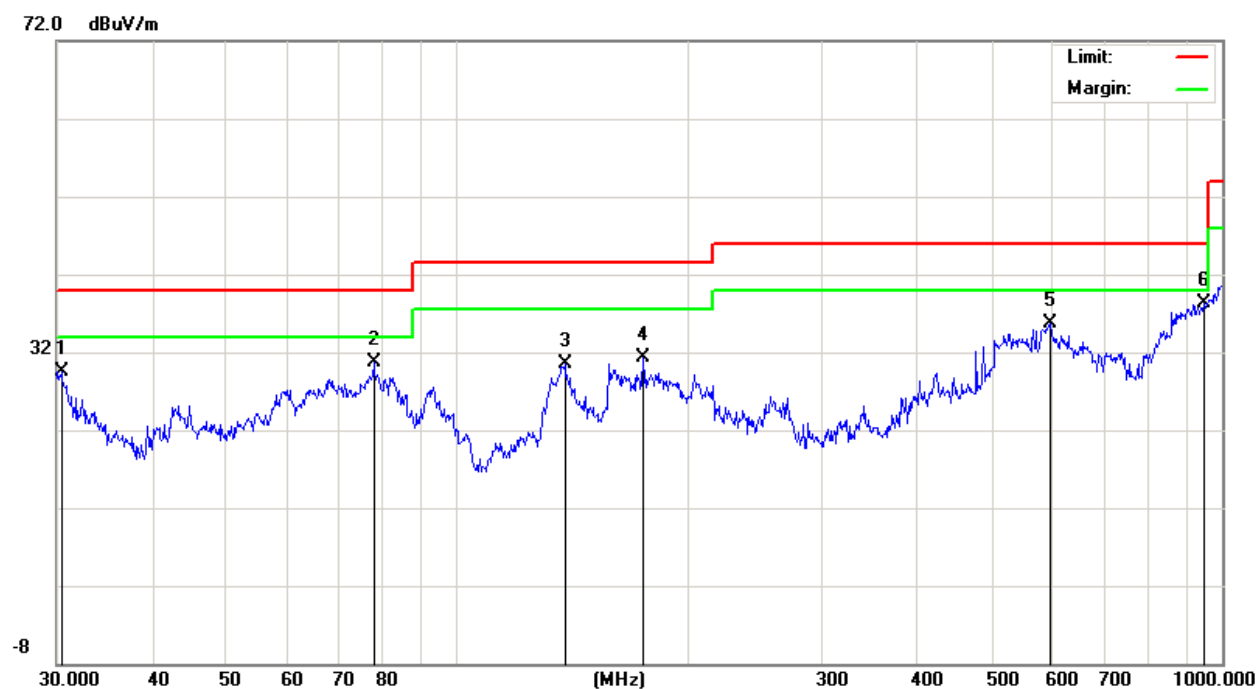


EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.6G)- 802.11a (Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.4237	4.74	24.80	29.54	40.00	-10.46	QP
V	77.8653	17.18	13.56	30.74	40.00	-9.26	QP
V	138.3873	11.59	18.86	30.45	43.50	-13.05	QP
V	175.0363	14.52	16.71	31.23	43.50	-12.27	QP
V	595.1326	7.53	28.26	35.79	46.00	-10.21	QP
V	945.4397	5.46	32.77	38.23	46.00	-7.77	QP

Remark:

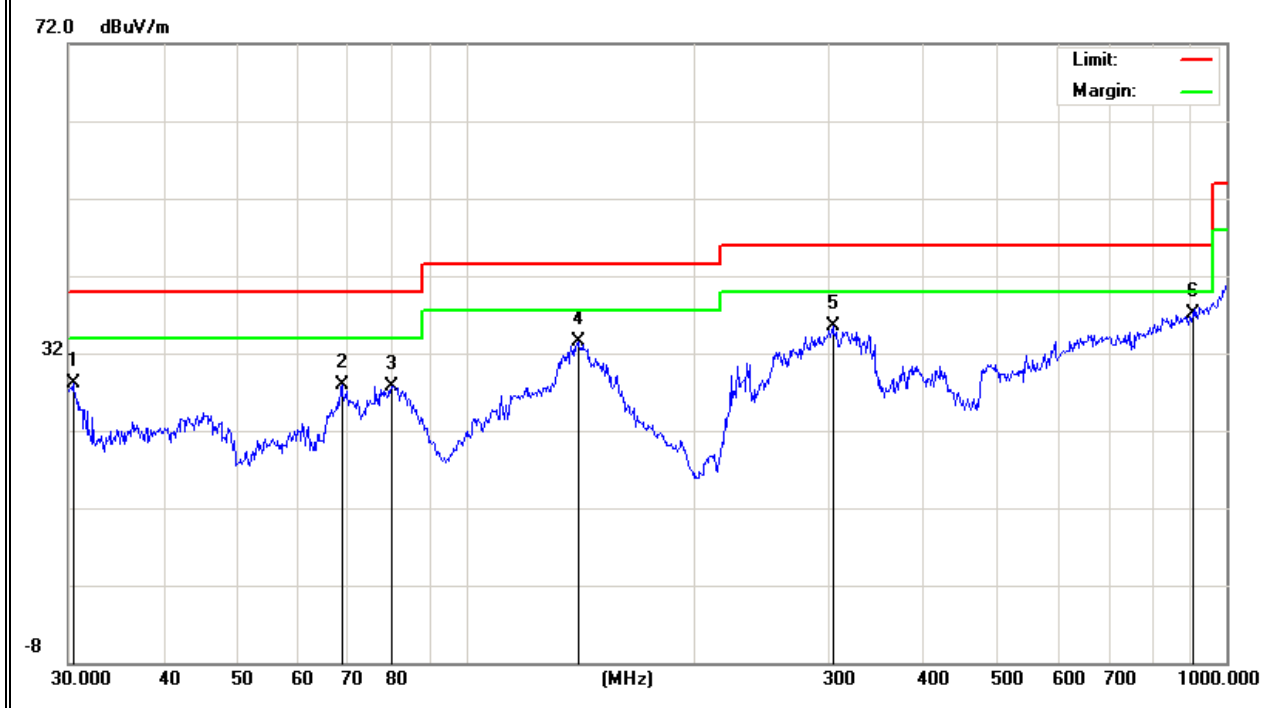
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.4237	3.21	24.80	28.01	40.00	-11.99	QP
H	68.6310	15.28	12.53	27.81	40.00	-12.19	QP
H	79.8002	13.86	13.91	27.77	40.00	-12.23	QP
H	140.3420	14.45	19.04	33.49	43.50	-10.01	QP
H	303.5437	14.32	21.14	35.46	46.00	-10.54	QP
H	903.3093	4.85	32.32	37.17	46.00	-8.83	QP

Remark:

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

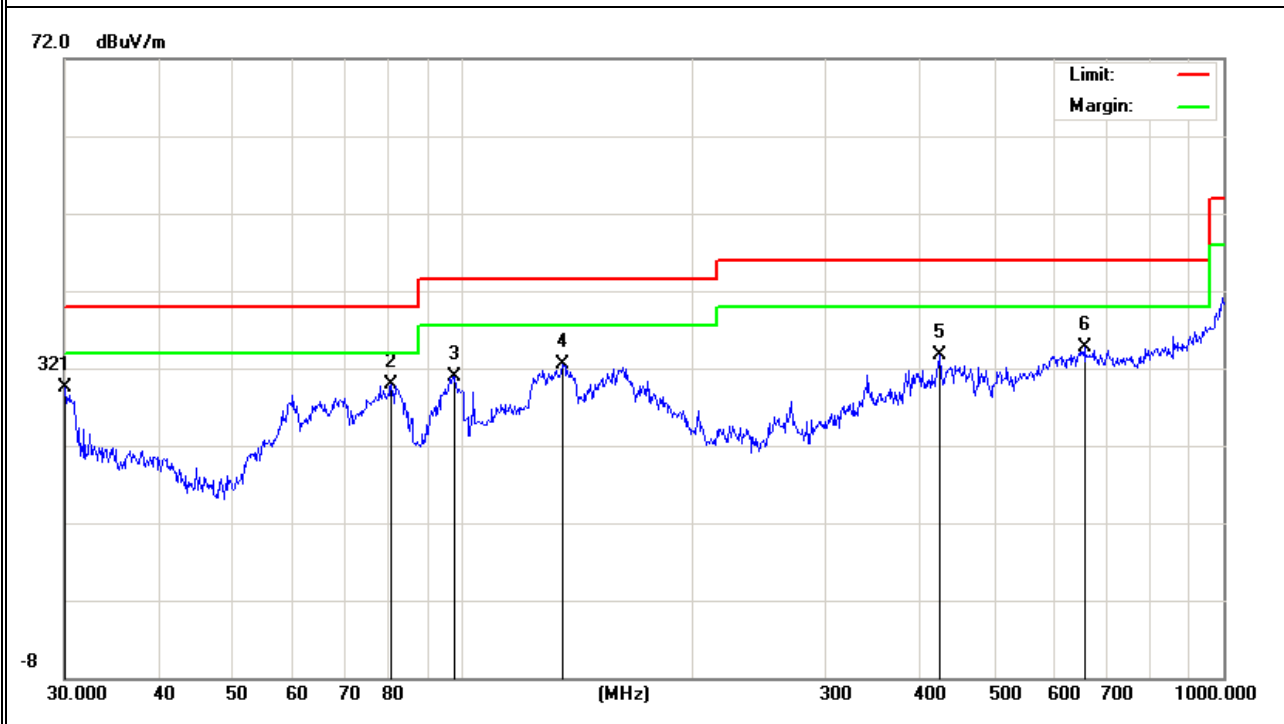


EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.8G) - 802.11a (Low CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	30.1051	4.39	25.14	29.53	40.00	-10.47	QP
V	80.6440	15.89	14.06	29.95	40.00	-10.05	QP
V	97.4560	14.55	16.39	30.94	43.50	-12.56	QP
V	135.5062	14.02	18.45	32.47	43.50	-11.03	QP
V	423.5403	9.22	24.51	33.73	46.00	-12.27	QP
V	656.5298	5.50	29.24	34.74	46.00	-11.26	QP

Remark:

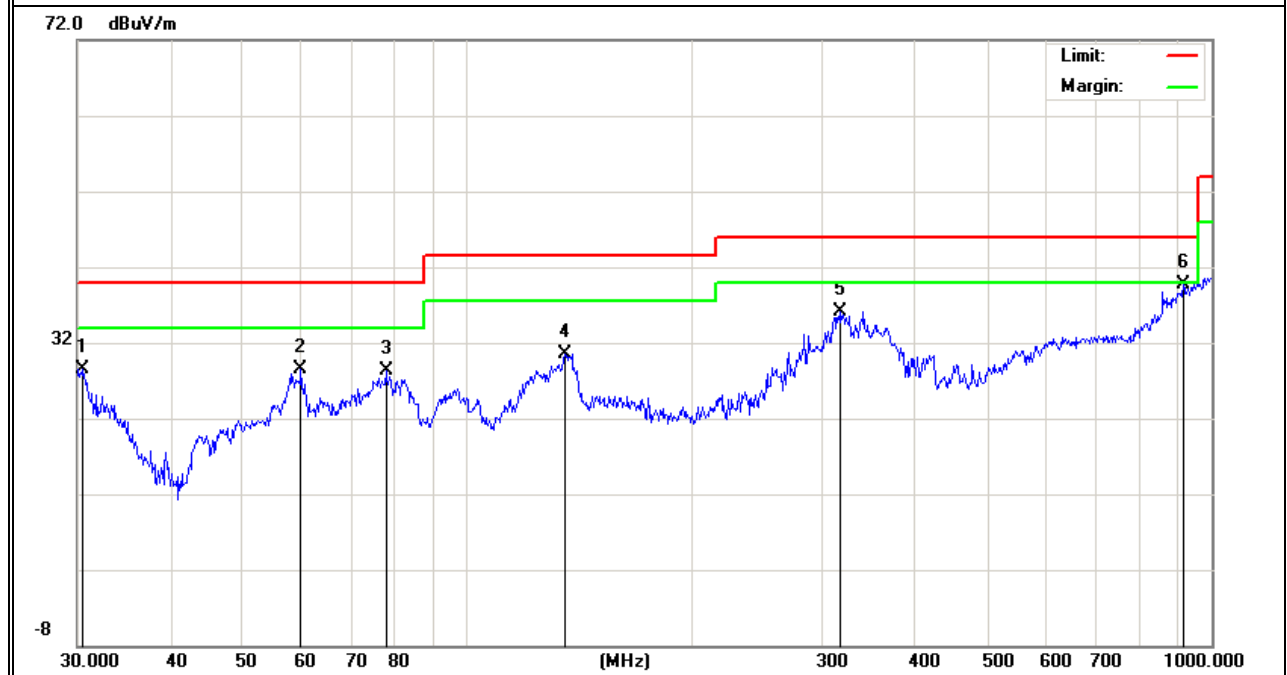
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.4237	3.74	24.80	28.54	40.00	-11.46	QP
H	59.8588	17.17	11.29	28.46	40.00	-11.54	QP
H	77.8653	14.68	13.56	28.24	40.00	-11.76	QP
H	135.5062	12.02	18.45	30.47	43.50	-13.03	QP
H	317.7010	14.60	21.59	36.19	46.00	-9.81	QP
H	916.0687	7.36	32.27	39.63	46.00	-6.37	QP

Remark:

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



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

2.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.2G) - 802.11a _5180~5240MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.44	61.92	5.94	35.40	44.00	59.26	74.00	-14.74	Pk
Vertical	3694.50	42.60	5.94	35.40	44.00	39.94	54.00	-14.06	AV
Vertical	10360.68	58.62	8.46	39.75	44.50	62.33	68.20	-5.87	Pk
Vertical	15540.60	61.23	10.12	38.80	44.10	66.05	74.00	-7.95	Pk
Vertical	15540.62	39.99	10.12	38.80	42.70	46.21	54.00	-7.79	AV
Horizontal	3713.31	63.65	5.94	35.18	44.00	60.77	74.00	-13.23	Pk
Horizontal	3713.44	44.07	5.94	35.18	44.00	41.19	54.00	-12.81	AV
Horizontal	10360.78	58.99	8.46	38.71	44.50	61.66	68.20	-6.54	Pk
Horizontal	15540.86	57.64	10.12	38.38	44.10	62.04	74.00	-11.96	Pk
Horizontal	15540.80	41.34	10.12	38.38	44.10	45.74	54.00	-8.26	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3624.62	58.81	6.48	36.35	44.05	57.59	74.00	-16.41	Pk
Vertical	3624.42	43.50	6.48	36.35	44.05	42.28	54.00	-11.72	AV
Vertical	10400.58	60.16	8.47	37.88	44.51	62.00	68.20	-6.20	Pk
Vertical	15600.39	60.40	10.12	38.80	44.10	65.22	74.00	-8.78	Pk
Vertical	15600.39	39.79	10.12	38.80	42.70	46.01	54.00	-7.99	AV
Horizontal	4202.54	58.44	6.48	36.37	44.05	57.24	74.00	-16.76	Pk
Horizontal	4202.56	45.42	6.48	36.37	44.05	44.22	54.00	-9.78	AV
Horizontal	10400.54	61.56	8.47	38.64	44.50	64.17	68.20	-4.03	Pk
Horizontal	15600.82	60.41	10.12	38.38	44.10	64.81	74.00	-9.19	Pk
Horizontal	15600.86	41.38	10.12	38.38	44.10	45.78	54.00	-8.22	AV

High Channel (5240 MHz)-Above 1G									
Vertical	4598.14	64.43	7.10	37.24	43.50	65.27	74.00	-8.73	Pk
Vertical	4598.19	43.80	7.10	37.24	43.50	44.64	54.00	-9.36	AV
Vertical	10480.54	60.40	8.46	37.68	44.50	62.04	68.20	-6.16	Pk
Vertical	15720.55	61.91	10.12	38.80	44.10	66.73	74.00	-7.27	Pk
Vertical	15720.73	40.53	10.12	38.80	42.70	46.75	54.00	-7.25	AV
Horizontal	4589.66	61.49	7.10	37.24	43.50	62.33	74.00	-11.67	Pk
Horizontal	4589.63	41.77	7.10	37.24	43.50	42.61	54.00	-11.39	AV
Horizontal	10480.87	62.60	8.46	38.57	44.50	65.13	68.20	-3.07	Pk
Horizontal	15720.43	60.01	10.12	38.38	44.10	64.41	74.00	-9.59	Pk
Horizontal	15720.51	43.25	10.12	38.38	44.10	47.65	54.00	-6.35	AV

Note:"ANT 1 802.11a (5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.3G) - 802.11a_5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4633.80	63.46	5.44	35.40	44.00	60.31	74.00	-13.69	Pk
Vertical	4633.55	44.89	5.74	35.40	44.00	42.03	54.00	-11.97	AV
Vertical	10520.64	60.58	8.26	39.75	44.50	64.09	68.20	-4.11	Pk
Vertical	15780.60	62.20	10.12	38.80	44.10	67.02	74.00	-6.98	Pk
Vertical	15780.70	40.99	9.62	38.80	42.70	46.71	54.00	-7.29	AV
Horizontal	4366.64	65.35	5.57	35.18	44.00	62.09	74.00	-11.91	Pk
Horizontal	4366.68	44.76	5.74	35.18	44.00	41.68	54.00	-12.32	AV
Horizontal	10520.50	60.41	8.38	38.71	44.50	63.00	68.20	-5.20	Pk
Horizontal	15780.72	58.77	9.88	38.38	44.10	62.93	74.00	-11.07	Pk
Horizontal	15780.74	41.81	9.94	38.38	44.10	46.03	54.00	-7.97	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4122.60	60.12	6.08	36.35	44.05	58.50	74.00	-15.50	Pk
Vertical	4122.67	43.82	6.39	36.35	44.05	42.51	54.00	-11.49	AV
Vertical	10560.52	60.90	8.28	37.88	44.51	62.55	68.20	-5.65	Pk
Vertical	15840.85	62.51	9.79	38.8	44.10	66.99	74.00	-7.01	Pk
Vertical	15840.76	40.82	9.70	38.8	42.70	46.62	54.00	-7.38	AV
Horizontal	3869.74	60.03	6.11	36.37	44.05	58.46	74.00	-15.54	Pk
Horizontal	3869.84	47.29	6.27	36.37	44.05	45.88	54.00	-8.12	AV
Horizontal	10561.07	56.41	8.33	38.64	44.50	58.88	68.20	-9.32	Pk
Horizontal	15840.65	61.22	9.99	38.38	44.10	65.49	74.00	-8.51	Pk
Horizontal	15840.65	42.01	9.81	38.38	44.10	46.10	54.00	-7.90	AV

High Channel (5320 MHz)-Above 1G									
Vertical	5366.92	63.64	6.96	37.24	43.50	64.34	74.00	-9.66	Pk
Vertical	5366.80	44.37	7.07	37.24	43.50	45.17	54.00	-8.83	AV
Vertical	10640.83	62.87	8.14	37.68	44.50	64.19	74.00	-9.81	Pk
Vertical	10640.90	42.62	8.35	37.68	44.50	44.15	54.00	-9.85	AV
Vertical	15960.65	61.57	10.11	38.8	44.10	66.37	74.00	-7.63	Pk
Vertical	15960.74	39.97	9.64	38.8	42.70	45.72	54.00	-8.28	AV
Horizontal	5437.06	62.58	7.05	37.24	43.50	63.37	74.00	-10.63	Pk
Horizontal	5437.07	42.89	7.05	37.24	43.50	43.68	54.00	-10.32	AV
Horizontal	10640.63	61.85	8.20	38.57	44.50	64.12	74.00	-9.88	Pk
Horizontal	10640.78	44.34	8.03	38.57	44.50	46.44	54.00	-7.56	AV
Horizontal	15961.42	61.51	9.81	38.38	44.10	65.61	74.00	-8.39	Pk
Horizontal	15961.36	44.62	9.96	38.38	44.10	48.86	54.00	-5.14	AV

Note: ANT 2 802.11a(5G) mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX(5.6G) - 802.11a _5500~5700MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	5433.30	65.01	5.61	35.40	44.00	62.02	74.00	-11.98	Pk
Vertical	5433.26	46.01	5.76	35.40	44.00	43.17	54.00	-10.83	AV
Vertical	11000.54	60.77	8.24	39.75	44.50	64.26	74.00	-9.74	Pk
Vertical	11000.54	42.71	8.35	39.75	44.50	46.31	54.00	-7.69	AV
Vertical	16500.81	51.86	10.05	38.80	44.10	56.61	68.20	-11.59	Pk
Horizontal	5126.92	61.56	5.78	35.18	44.00	58.52	74.00	-15.48	Pk
Horizontal	5126.84	43.35	5.66	35.18	44.00	40.20	54.00	-13.80	AV
Horizontal	11000.75	58.97	8.22	38.71	44.50	61.40	74.00	-12.60	Pk
Horizontal	11000.86	42.44	8.14	38.71	44.50	44.79	54.00	-9.21	AV
Horizontal	16500.92	57.71	10.04	38.38	44.10	62.03	68.20	-6.17	Pk
Middle Channel (5600 MHz)-Above 1G									
Vertical	4933.67	63.54	6.29	36.35	44.05	62.12	74.00	-11.88	Pk
Vertical	4933.73	45.11	6.24	36.35	44.05	43.65	54.00	-10.35	AV
Vertical	11200.99	60.79	8.24	37.88	44.51	62.41	74.00	-11.59	Pk
Vertical	11201.07	45.46	8.13	37.88	44.51	46.95	54.00	-7.05	AV
Vertical	16800.69	59.68	9.71	38.80	44.10	64.09	68.20	-4.11	Pk
Horizontal	4766.62	61.37	6.44	36.37	44.05	60.13	74.00	-13.87	Pk
Horizontal	4766.80	44.37	6.13	36.37	44.05	42.83	54.00	-11.17	AV
Horizontal	11200.83	61.70	8.31	38.64	44.50	64.15	74.00	-9.85	Pk
Horizontal	11201.03	44.09	8.04	38.64	44.50	46.27	54.00	-7.73	AV
Horizontal	16800.70	57.91	10.09	38.38	44.10	62.28	68.20	-5.92	Pk

High Channel (5700 MHz)-Above 1G									
Vertical	5647.82	62.04	6.79	37.24	43.50	62.57	68.20	-5.63	Pk
Vertical	11400.81	60.96	8.10	37.68	44.50	62.24	74.00	-11.76	Pk
Vertical	11400.62	42.24	8.23	37.68	44.50	43.65	54.00	-10.35	AV
Vertical	17100.68	56.25	9.70	38.80	44.10	60.65	68.20	-7.55	Pk
Horizontal	5433.53	60.70	6.74	37.24	43.50	61.18	74.00	-12.82	Pk
Horizontal	5433.70	42.69	6.74	37.24	43.50	43.17	54.00	-10.83	AV
Horizontal	11400.83	60.18	8.25	38.57	44.50	62.50	74.00	-11.50	Pk
Horizontal	11400.83	42.35	8.35	38.57	44.50	44.77	54.00	-9.23	AV
Horizontal	17100.73	59.40	9.70	38.38	44.10	63.38	68.20	-4.82	Pk

Note: "ANT 1 802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5.8G) -- 802.11a _5745~5825MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	5123.08	64.13	5.94	35.40	44.00	61.47	74.00	-12.53	Pk
Vertical	5122.78	45.87	5.94	35.40	44.00	43.21	54.00	-10.79	AV
Vertical	11490.96	60.46	8.46	39.75	44.50	64.17	74.00	-9.83	Pk
Vertical	11491.10	43.66	8.46	39.75	44.50	47.37	54.00	-6.63	AV
Vertical	17236.20	52.34	10.12	38.80	44.10	57.16	68.20	-11.04	Pk
Horizontal	5167.06	59.84	5.94	35.18	44.00	56.96	68.20	-11.24	Pk
Horizontal	11490.77	59.50	8.46	38.71	44.50	62.17	74.00	-11.83	Pk
Horizontal	11490.70	42.79	8.46	38.71	44.50	45.46	54.00	-8.54	AV
Horizontal	17235.99	51.69	10.12	38.38	44.10	56.09	68.20	-12.11	Pk
middle Channel (5785 MHz)-Above 1G									
Vertical	5433.89	63.00	6.48	36.35	44.05	61.78	74.00	-12.22	Pk
Vertical	5433.82	43.37	6.48	36.35	44.05	42.15	54.00	-11.85	AV
Vertical	11570.98	60.80	8.47	37.88	44.51	62.64	74.00	-11.36	Pk
Vertical	11570.72	43.50	8.47	37.88	44.51	45.34	54.00	-8.66	AV
Vertical	17356.37	56.00	10.12	38.80	44.10	60.82	68.20	-7.38	Pk
Horizontal	4867.03	60.23	6.48	36.37	44.05	59.03	74.00	-14.97	Pk
Horizontal	4867.15	43.26	6.48	36.37	44.05	42.06	54.00	-11.94	AV
Horizontal	11570.67	62.96	8.47	38.64	44.50	65.57	74.00	-8.43	Pk
Horizontal	11570.57	44.27	8.47	38.64	44.50	46.88	54.00	-7.12	AV
Horizontal	17355.92	56.82	10.12	38.38	44.10	61.22	68.20	-6.98	Pk

High Channel (5825 MHz)-Above 1G									
Vertical	5243.60	61.94	7.10	37.24	43.50	62.78	68.20	-5.42	Pk
Vertical	11651.82	61.93	8.46	37.68	44.50	63.57	74.00	-10.43	Pk
Vertical	11651.51	43.02	8.46	37.68	44.50	44.66	54.00	-9.34	AV
Vertical	17472.92	56.82	10.12	38.80	44.10	61.64	68.20	-6.56	Pk
Horizontal	17472.82	55.91	10.12	38.80	44.10	60.73	68.20	-7.47	Pk
Horizontal	5284.58	60.34	7.10	37.24	43.50	61.18	68.20	-7.02	Pk
Horizontal	11652.03	60.33	8.46	38.57	44.50	62.86	74.00	-11.14	AV
Horizontal	11652.04	41.97	8.46	38.57	44.50	44.50	54.00	-9.50	Pk

Note:"ANT 2 802.11a(5G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

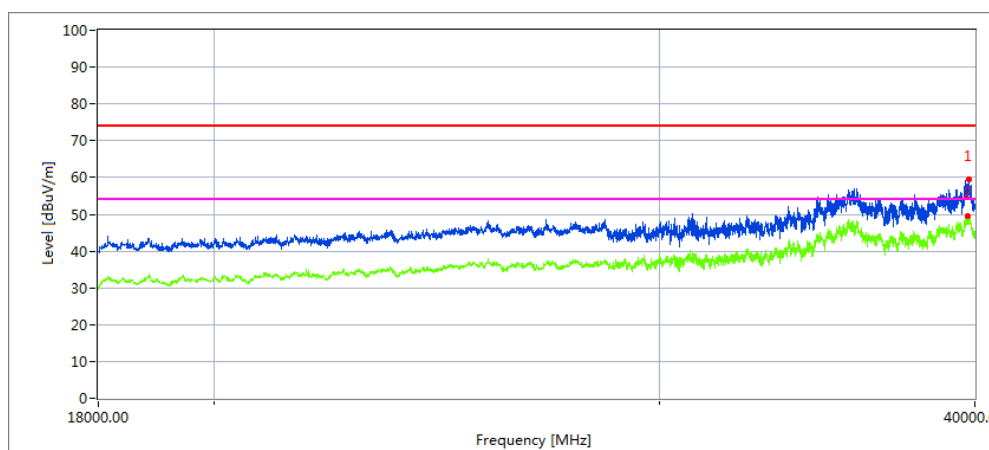
2.2.10 TEST RESULTS (18GHz-40GHz)

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5.2G)-802.11ac40 5180MHz~5240MHz; TX (5.3G)-802.11n40 5260MHz~5320MHz; TX (5.6G)-802.11n20 5500MHz~5700MHz; TX (5.8G)-802.11ac40 5745MHz~5825MHz		

All the modulation modes have been tested, and the worst result was report as below:

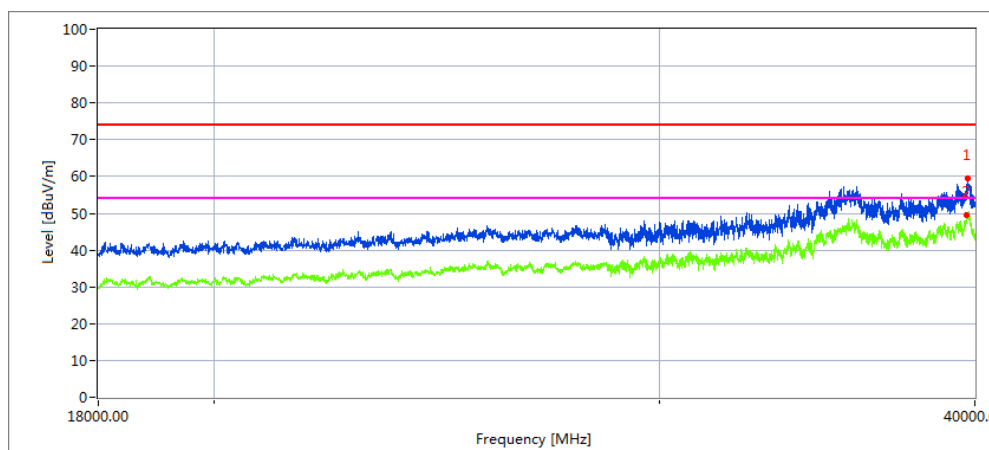
Low Channel (5180 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39768.99	39.23	20.09	44.07	43.48	59.91	68.2	8.29	Peak
39766.92	27.32	20.09	44.04	43.48	47.97	54	6.03	AVG

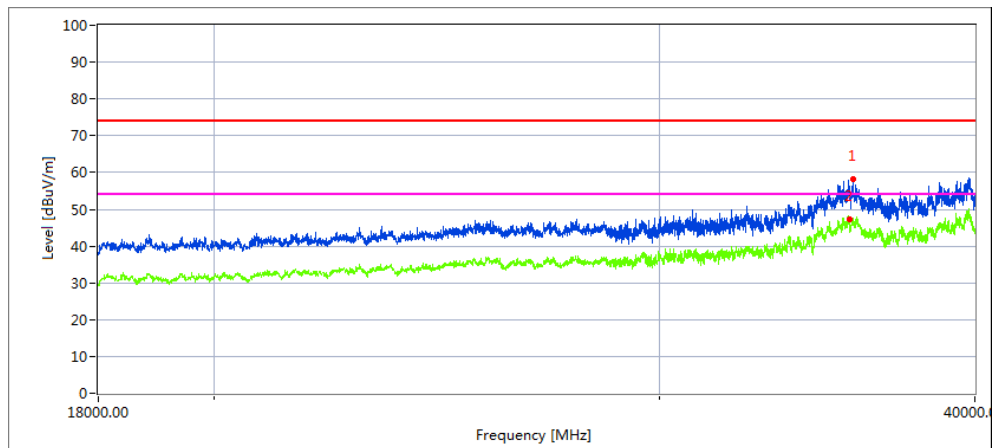
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39769.286	36.23	20.09	44.07	43.48	56.91	68.2	11.29	Peak
39769.105	27.43	20.09	44.04	43.48	48.08	54	5.92	AVG

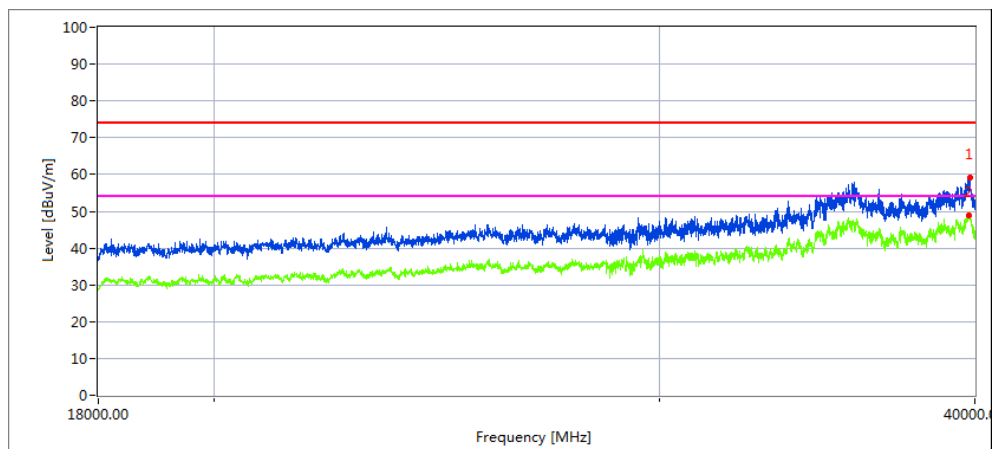
High Channel (5240 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
35627.87	40.94	19.11	42.73	44.61	58.17	68.2	10.03	Peak
35596.546	31.6	19.11	42.73	44.61	48.83	54	5.17	AVG

Vertical

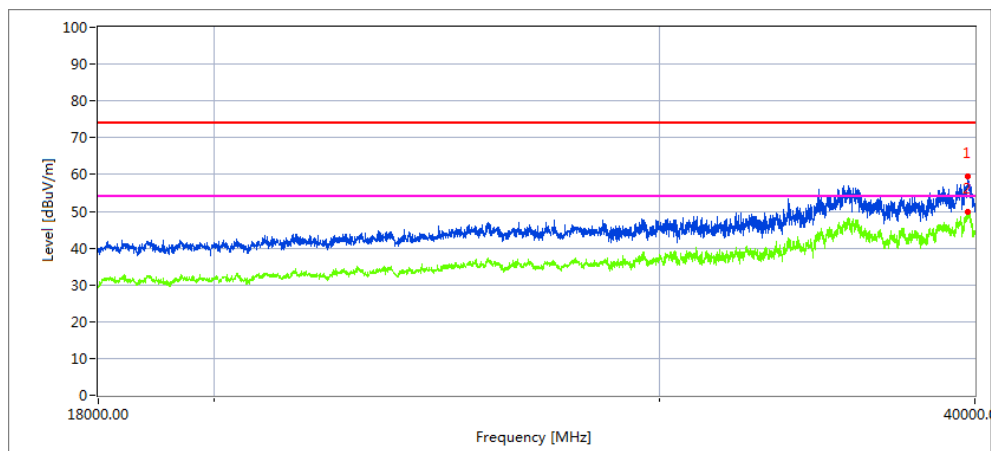


Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39769.356	37.39	20.09	44.07	43.48	58.07	68.2	10.13	Peak
39769.306	25.64	20.09	44.04	43.48	46.29	54	7.71	AVG

Note:802.11a mode is the worst mode.

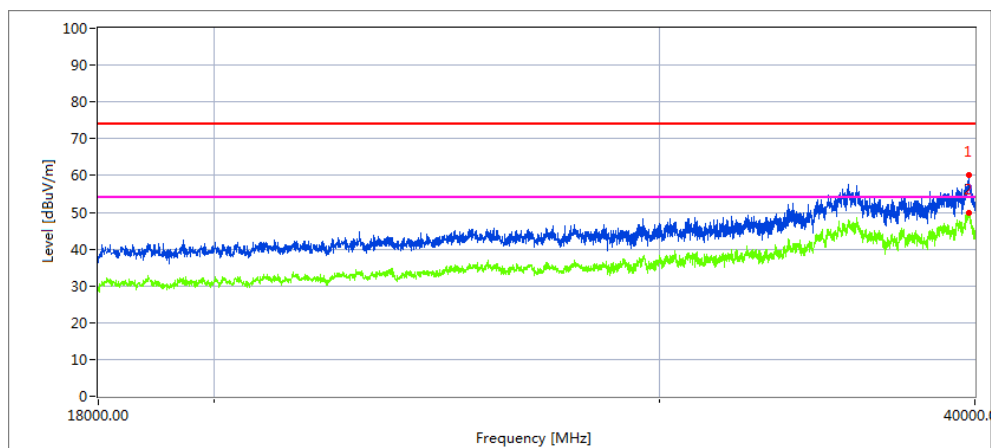
Low Channel (5260 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39176	38.75	19.98	43.84	44.62	57.95	68.2	10.25	Peak
39176.11	29.9	19.98	43.84	44.62	49.1	54	4.9	AVG

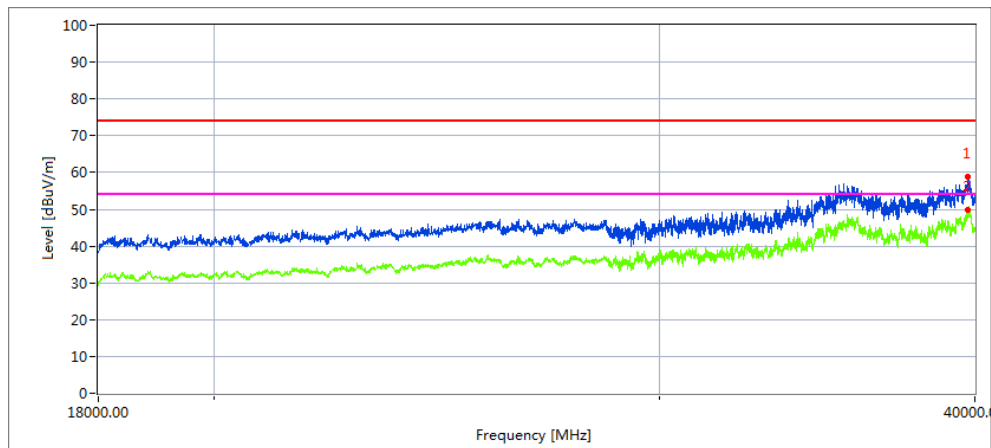
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39385.58	38.97	20.01	44.06	42.69	60.35	68.2	7.85	Peak
39385.64	28.7	20.01	44.06	42.69	50.08	54	3.92	AVG

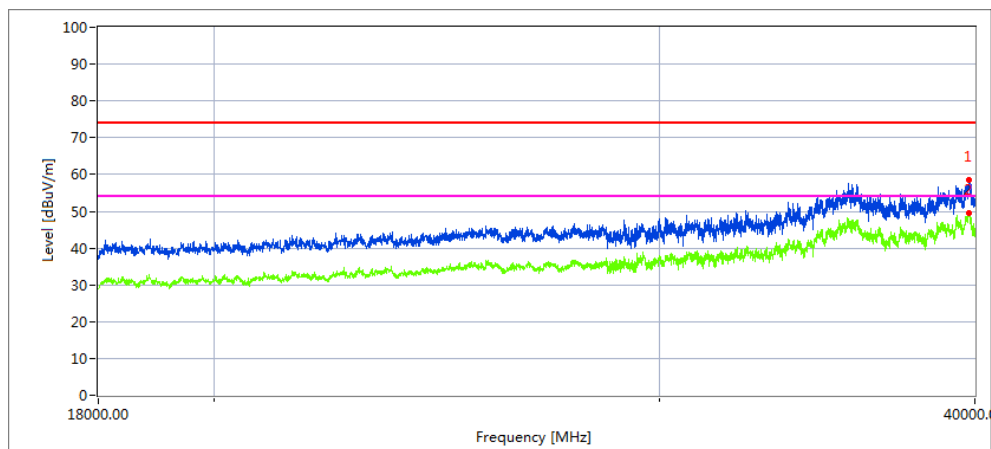
High Channel (5320 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39176.84	38.93	19.98	43.84	44.62	58.13	68.2	10.07	Peak
39176.67	30.6	19.98	43.84	44.62	49.8	54	4.2	AVG

Vertical

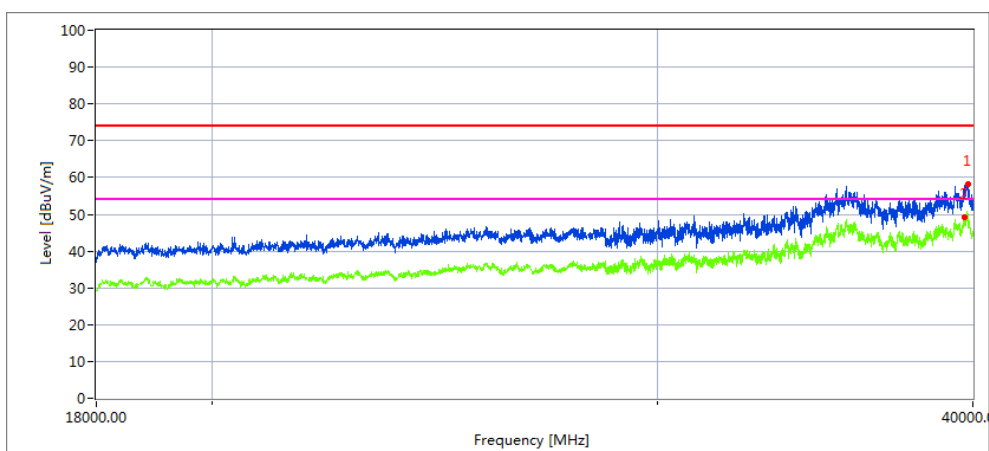


Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39369.014	35.97	20.01	44.06	42.69	57.35	68.2	10.85	Peak
39369.114	27.4	20.01	44.06	42.69	48.78	54	5.22	AVG

Note:802.11a mode is the worst mode.

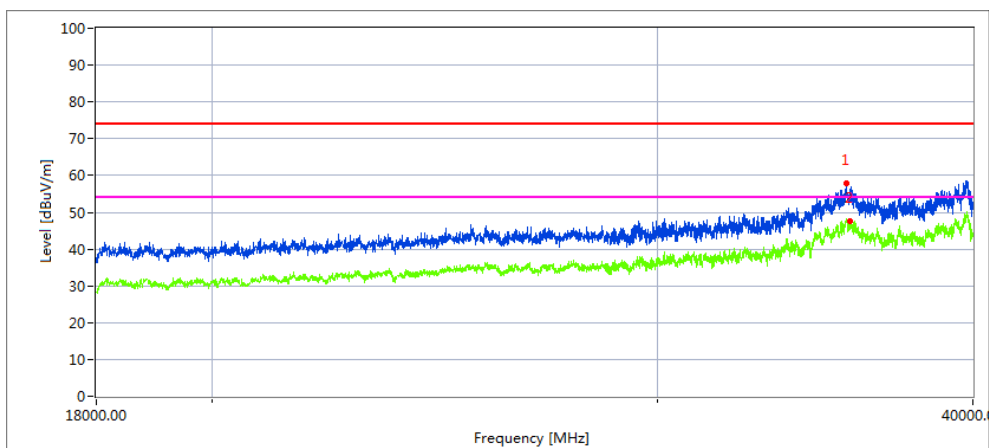
Low Channel (5500 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39696.087	37.08	20.09	44.07	43.48	57.76	68.2	10.44	Peak
39652.911	29.09	20.07	44.06	43.48	49.74	54	4.26	AVG

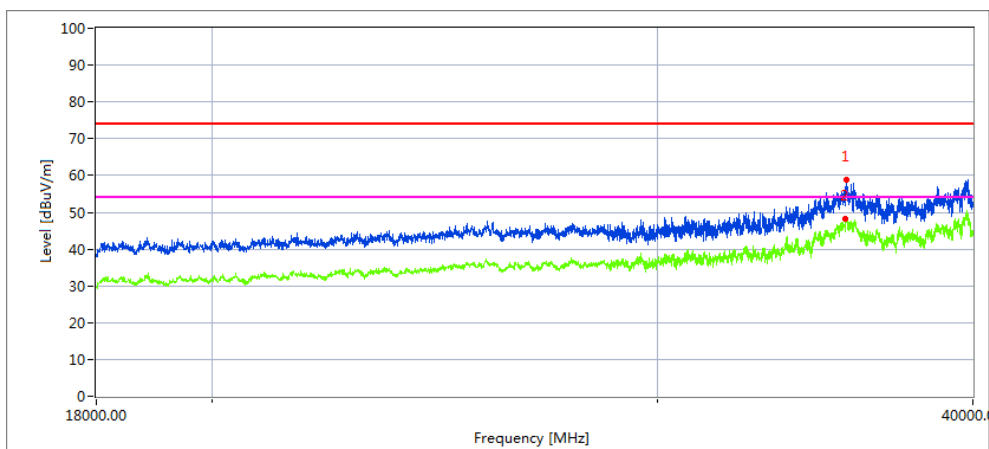
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
36575.471	37.22	19.16	42.61	41.56	57.43	68.2	10.77	Peak
36575.571	27.37	19.16	42.61	41.56	47.58	54	6.42	AVG

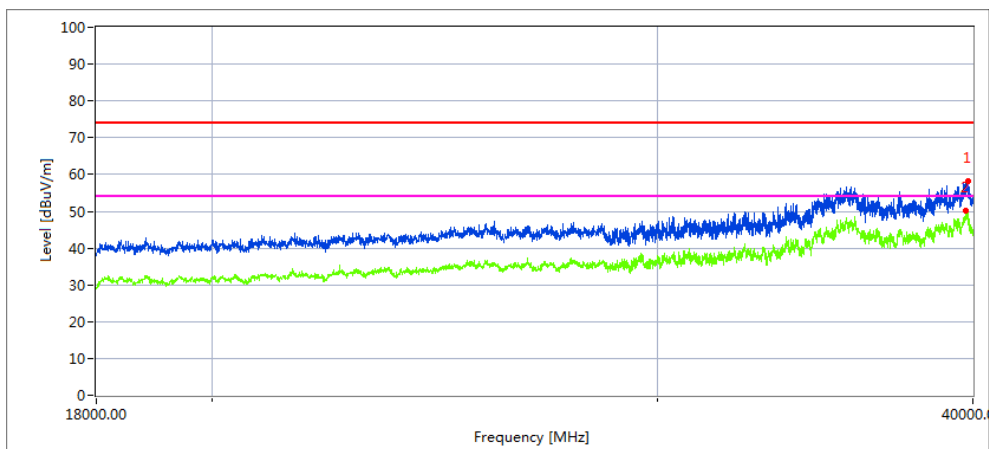
High Channel (5700 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
35794.23	37.68	19.17	42.63	42.74	56.74	68.2	11.46	Peak
35763.098	28.95	19.14	42.61	42.71	47.99	54	6.01	AVG

Vertical

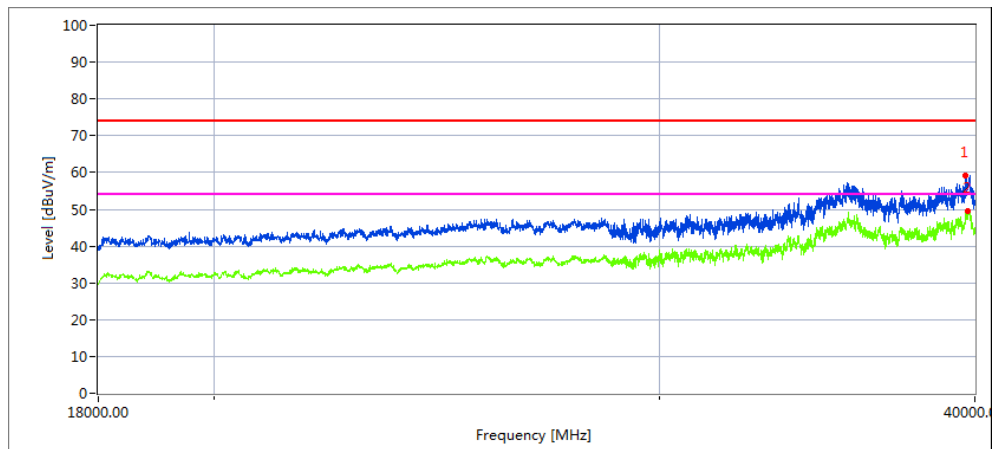


Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39816.533	38.74	20.09	42.63	43.48	57.98	68.2	10.22	Peak
39803.868	30.85	20.09	42.61	43.48	50.07	54	3.93	AVG

Note:802.11a MIMO mode is the worst mode.

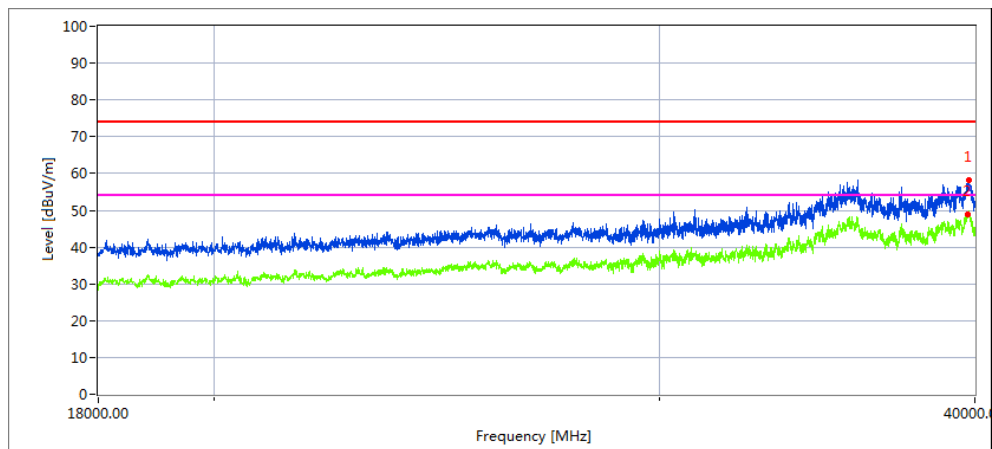
Low Channel (5745 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39669.884	38.49	20.09	44.16	43.48	59.26	68.2	8.94	Peak
39669.924	29.33	20.09	44.16	43.48	50.1	54	3.9	AVG

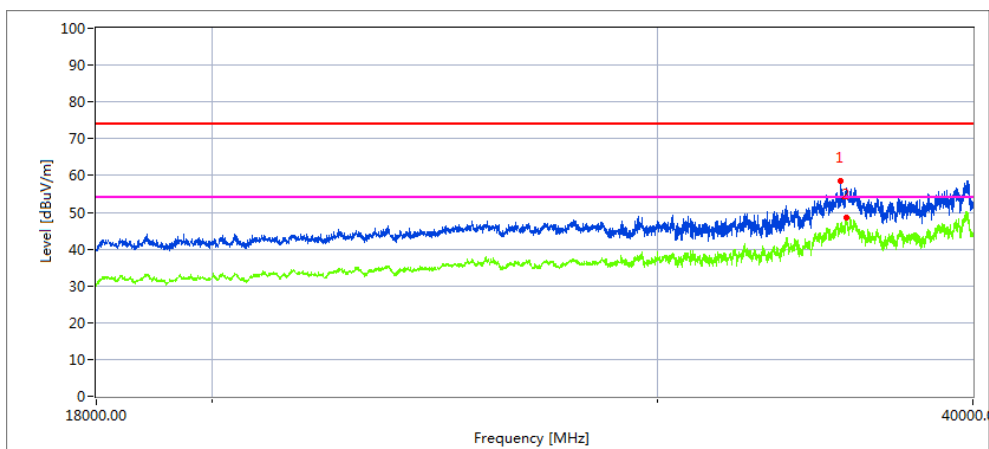
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39731.042	37.63	20.06	44.07	43.21	58.55	68.2	9.65	Peak
39731.242	28.58	20.06	44.07	43.21	49.5	54	4.5	AVG

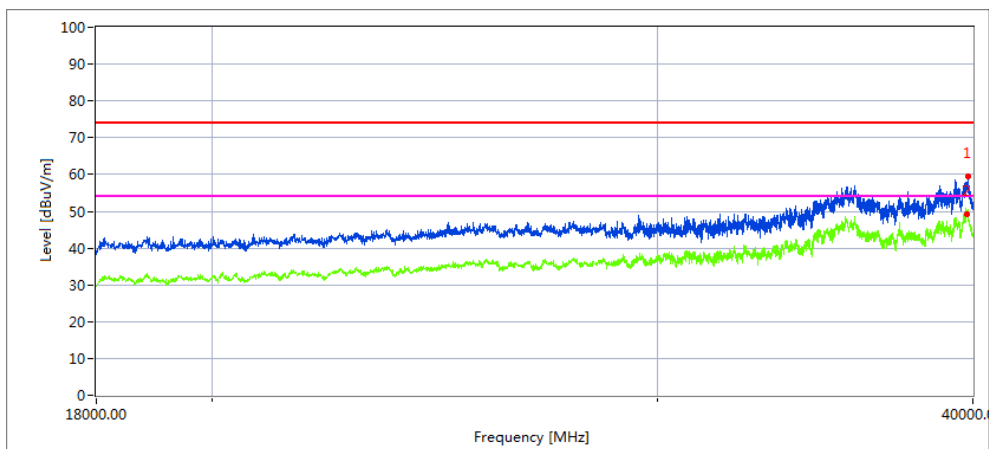
High Channel (5825 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
35628.184	39.6	19.11	42.63	43.48	57.86	68.2	10.34	Peak
35635.738	30.05	19.12	42.63	43.48	48.32	54	5.68	AVG

Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39821.473	38.28	20.1	44.1	43.22	59.26	68.2	8.94	Peak
39821.553	29.2	20.1	44.1	43.22	50.18	54	3.82	AVG

Note:802.11a mode is the worst mode.

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

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz,		

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

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
5.2G WIFI-802.11a Mode									
4500	56.36	5.2	35.6	44.2	52.96	74	-21.04	Pk	Horizontal
4500	47.33	5.2	35.6	44.2	43.93	54	-10.07	AV	Horizontal
4500	59.19	5.2	35.6	44.2	55.79	74	-18.21	Pk	Horizontal
4500	46.30	5.2	35.6	44.2	42.9	54	-11.1	AV	Horizontal
5150	70.25	5.36	35.66	44.22	67.05	74	-6.95	Pk	Horizontal
5150	79.87	5.36	35.66	44.22	76.67	54	22.67	AV	Horizontal
5150	56.87	5.36	35.66	44.22	53.67	74	-20.33	Pk	Vertical
5150	79.73	5.36	35.66	44.22	76.53	54	22.53	AV	Vertical
5350	65.61	5.68	35.68	44.22	62.75	74	-11.25	Pk	Vertical
5350	47.22	5.68	35.68	44.22	44.36	54	-9.64	AV	Vertical
5350	60.88	5.68	35.68	44.22	58.02	74	-15.98	Pk	Horizontal
5350	45.88	5.68	35.68	44.22	43.02	54	-10.98	AV	Horizontal

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

(2) "802.11a" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5.3G)-802.11a 5260MHz~5320MHz,		

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

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel (5320 MHz)-Above 1G									
Vertical	66.36	66.36	6.96	37.24	43.50	67.06	74.00	-6.94	Pk
Vertical	44.23	44.35	7.07	37.24	43.50	45.16	54.00	-8.84	AV
Horizontal	66.86	67.05	7.05	37.24	43.50	67.84	74.00	-6.16	Pk
Horizontal	46.33	46.66	7.05	37.24	43.50	47.45	54.00	-6.55	AV

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

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5.6G)-802.11ac20 5500MHz~5700MHz,		

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

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	68.35	68.36	5.61	35.40	44.00	65.37	74.00	-8.63	Pk
Vertical	51.32	51.33	5.76	35.40	44.00	48.49	54.00	-5.51	AV
Horizontal	62.98	63.25	5.78	35.18	44.00	60.21	74.00	-13.79	Pk
Horizontal	48.24	48.36	5.66	35.18	44.00	45.20	54.00	-8.80	AV

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

(2) "802.11a " mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

3. POWER SPECTRAL DENSITY TEST

3.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

For the band 5.15-5.25 GHz,

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

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

For the band 5.725-5.85 GHz

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

3.2 TEST PROCEDURE

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

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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

3.3 DEVIATION FROM STANDARD

No deviation.

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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

3.6 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 2C (5500-5700MHz), Band 3 (5745-5825MHz)		

Refer to section 1.1 of this report:

Band1/2A/2C For 802.11n/ac 5GHz has MIMO mode. Directional gain=4.59dbi

4.59dbi<6.0dbi so power spectral density limit = 11dBm

Band 3 For 802.11n/ac 5GHz has MIMO mode. Directional gain=4.59dbi

4.59dbi<6.0dbi so power spectral density limit = 30dBm

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

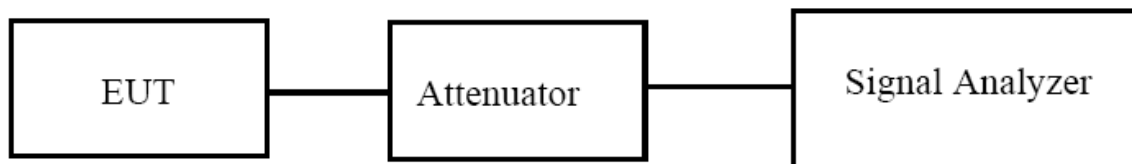
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band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

4.2 TEST PROCEDURE

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

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

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



4.3 EUT OPERATION CONDITIONS

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

4.4 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 2C (5500-5700MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

5. MINIMUM 6 DB BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(e)

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

5.2 TEST PROCEDURE

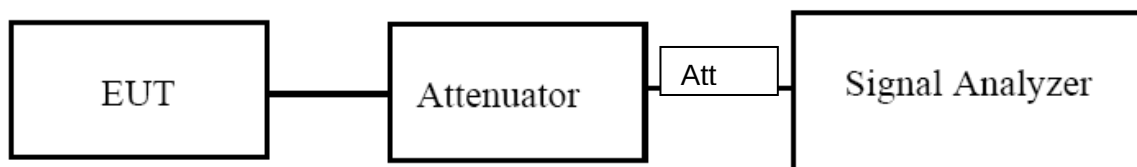
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

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

5.6 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5G) Mode Frequency Band 3 (5745-5825MHz)		

Test data reference attachment.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

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

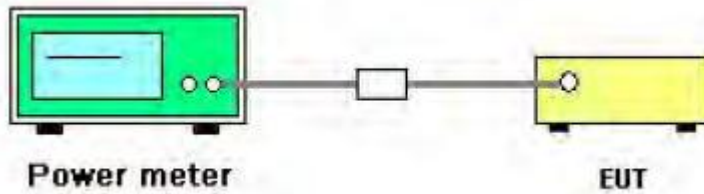
6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

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

6.2 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX (5G) Mode Frequency Band 1 (5180-5240MHz), Band 2A (5260-5320MHz), Band 2C (5500-5700MHz), Band 3 (5745-5825MHz)		

Refer to section 1.1 of this report:

Band1/2A/2C For 802.11n/ac 5GHz has MIMO mode. Directional gain=1.59dbi

1.58dbi < 6.0dbi so conducted power limit= 24dBm

Band 3 For 802.11n/ac 5GHz has MIMO mode. Directional gain=1.59dbi

1.58dbi < 6.0dbi so conducted power limit= 30.00dBm

Test data reference attachment.

7. OUT OF BAND EMISSIONS

7.1 APPLICABLE STANDARD

According to FCC §15.407(b)

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

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

7.2 TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

~~4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot~~

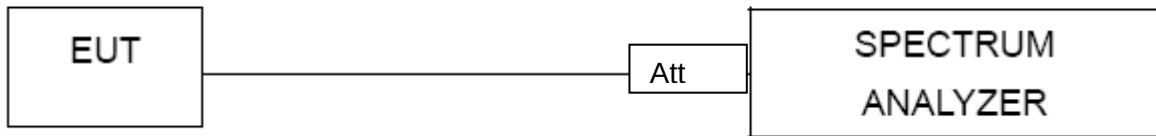
the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

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

7.6 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name :	E134
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V

Test data reference attachment.

8. Frequency Stability Measurement

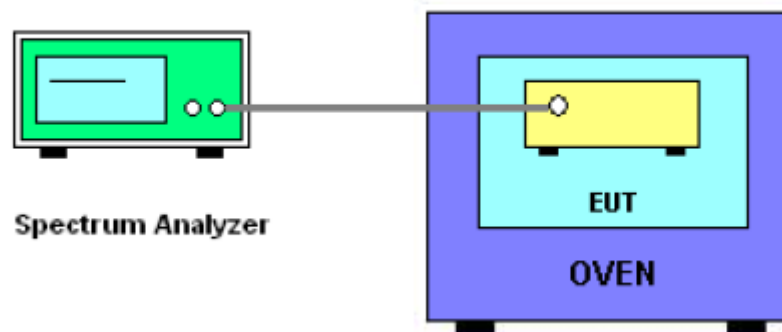
8.1 LIMIT

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

8.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11 specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$.

8.3 TEST SETUP LAYOUT



8.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.
2. The module has two antennas, and the worst data is Antenna 1, only shown Antenna 1 Plot.

8.5 TEST RESULTS

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency Band I (5180-5240MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5180.0113	5180	0.0113	-2.1815
		V max (V)	13.28	5180.0305	5180	0.0305	-5.8880
		V min (V)	9.82	5180.0043	5180	0.0043	-0.8301
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5180.0121	5180	0.0121	-2.3359
		T (°C)	-10	5180.0148	5180	0.0148	-2.8571
		T (°C)	0	5180.0221	5180	0.0221	-4.2664
		T (°C)	10	5180.0292	5180	0.0292	-5.6371
		T (°C)	20	5180.0316	5180	0.0316	-6.1004
		T (°C)	30	5180.0211	5180	0.0211	-4.0734
		T (°C)	40	5180.0132	5180	0.0132	-2.5483
		T (°C)	50	5180.0144	5180	0.0144	-2.7799
		T (°C)	60	5180.0148	5180	0.0148	-2.8571
		T (°C)	70	5180.0256	5180	0.0256	-4.9421
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5200.0003	5200	0.0003	-0.0577
		V max (V)	13.28	5200.029	5200	0.0290	-5.5769
		V min (V)	9.82	5200.0222	5200	0.0222	-4.2692
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5200.0272	5200	0.0272	-5.2308
		T (°C)	-10	5200.0256	5200	0.0256	-4.9231
		T (°C)	0	5200.0283	5200	0.0283	-5.4423
		T (°C)	10	5200.0152	5200	0.0152	-2.9231
		T (°C)	20	5200.0180	5200	0.0180	-3.4615
		T (°C)	30	5200.0241	5200	0.0241	-4.6346
		T (°C)	40	5200.0012	5200	0.0012	-0.2308
		T (°C)	50	5200.0042	5200	0.0042	-0.8077
		T (°C)	60	5200.0151	5200	0.0151	-2.9038
		T (°C)	70	5200.0229	5200	0.0229	-4.4038
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5240.0146	5240	0.0146	-2.7863
		V max (V)	13.28	5240.0148	5240	0.0148	-2.8244
		V min (V)	9.82	5240.0118	5240	0.0118	-2.2519
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5240.0139	5240	0.0139	-2.6527
		T (°C)	-10	5240.0178	5240	0.0178	-3.3969
		T (°C)	0	5240.0009	5240	0.0009	-0.1718
		T (°C)	10	5240.0176	5240	0.0176	-3.3588
		T (°C)	20	5240.0184	5240	0.0184	-3.5115
		T (°C)	30	5240.0235	5240	0.0235	-4.4847
		T (°C)	40	5240.0041	5240	0.0041	-0.7824
		T (°C)	50	5240.0273	5240	0.0273	-5.2099
		T (°C)	60	5240.0156	5240	0.0156	-2.9771
		T (°C)	70	5240.0310	5240	0.0310	-5.9160
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency Band 2A (5260-5320MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5260.0179	5260	0.01790	-3.4030
		V max (V)	13.28	5260.012	5260	0.01200	-2.2814
		V min (V)	9.82	5260.0122	5260	0.01220	-2.3194
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5260.0025	5260	0.00250	-0.4753
		T (°C)	-10	5260.0125	5260	0.01250	-2.3764
		T (°C)	0	5260.0170	5260	0.01700	-3.2319
		T (°C)	10	5260.0272	5260	0.02720	-5.1711
		T (°C)	20	5260.0012	5260	0.00120	-0.2281
		T (°C)	30	5260.0310	5260	0.03100	-5.8935
		T (°C)	40	5260.0334	5260	0.03340	-6.3498
		T (°C)	50	5260.0270	5260	0.02700	-5.1331
		T (°C)	60	5260.0014	5260	0.00140	-0.2662
		T (°C)	70	5260.0150	5260	0.01500	-2.8517
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5280.0148	5280	0.01480	-2.8030
		V max (V)	13.28	5280.0164	5280	0.01640	-3.1061
		V min (V)	9.82	5280.0333	5280	0.03330	-6.3068
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5280.0160	5280	0.01600	-3.0303
		T (°C)	-10	5280.0065	5280	0.00650	-1.2311
		T (°C)	0	5280.0250	5280	0.02500	-4.7348
		T (°C)	10	5280.0330	5280	0.03300	-6.2500
		T (°C)	20	5280.0106	5280	0.01060	-2.0076
		T (°C)	30	5280.0247	5280	0.02470	-4.6780
		T (°C)	40	5280.0187	5280	0.01870	-3.5417
		T (°C)	50	5280.0031	5280	0.00310	-0.5871
		T (°C)	60	5280.0275	5280	0.02750	-5.2083
		T (°C)	70	5280.0167	5280	0.01670	-3.1629
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5320.0254	5320	0.02540	-4.7744
		V max (V)	13.28	5320.0139	5320	0.01390	-2.6128
		V min (V)	9.82	5320.0209	5320	0.02090	-3.9286
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5320.0023	5320	0.00230	-0.4323
		T (°C)	-10	5320.0024	5320	0.00240	-0.4511
		T (°C)	0	5320.0222	5320	0.02220	-4.1729
		T (°C)	10	5320.0261	5320	0.02610	-4.9060
		T (°C)	20	5320.0301	5320	0.03010	-5.6579
		T (°C)	30	5320.0031	5320	0.00310	-0.5827
		T (°C)	40	5320.0123	5320	0.01230	-2.3120
		T (°C)	50	5320.0286	5320	0.02860	-5.3759
		T (°C)	60	5320.0166	5320	0.01660	-3.1203
		T (°C)	70	5320.0146	5320	0.01460	-2.7444
Limits				Within 5250-5350MHz			
Result				Complies			

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency Band 2C (5500-5700MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5500.0003	5500	0.00030	-0.0545
		V max (V)	13.28	5500.0395	5500	0.03950	-7.1818
		V min (V)	9.82	5500.0131	5500	0.01310	-2.3818
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5500.0114	5500	0.01140	-2.0727
		T (°C)	-10	5500.0123	5500	0.01230	-2.2364
		T (°C)	0	5500.0194	5500	0.01940	-3.5273
		T (°C)	10	5500.0309	5500	0.03090	-5.6182
		T (°C)	20	5500.0053	5500	0.00530	-0.9636
		T (°C)	30	5500.0225	5500	0.02250	-4.0909
		T (°C)	40	5500.0322	5500	0.03220	-5.8545
		T (°C)	50	5500.0123	5500	0.01230	-2.2364
		T (°C)	60	5500.0232	5500	0.02320	-4.2182
		T (°C)	70	5500.0219	5500	0.02190	-3.9818
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5600.0022	5600	0.00220	-0.3929
		V max (V)	13.28	5600.0277	5600	0.02770	-4.9464
		V min (V)	9.82	5600.0014	5600	0.00140	-0.2500
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5600.0316	5600	0.03160	-5.6429
		T (°C)	-10	5600.0156	5600	0.01560	-2.7857
		T (°C)	0	5600.0209	5600	0.02090	-3.7321
		T (°C)	10	5600.0250	5600	0.02500	-4.4643
		T (°C)	20	5600.0283	5600	0.02830	-5.0536
		T (°C)	30	5600.0017	5600	0.00170	-0.3036
		T (°C)	40	5600.0321	5600	0.03210	-5.7321
		T (°C)	50	5600.0023	5600	0.00230	-0.4107
		T (°C)	60	5600.0088	5600	0.00880	-1.5714
		T (°C)	70	5600.0338	5600	0.03380	-6.0357
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5700.0161	5700	0.01610	-2.8246
		V max (V)	13.28	5700.001	5700	0.00100	-0.1754
		V min (V)	9.82	5700.016	5700	0.01600	-2.8070
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5700.0267	5700	0.02670	-4.6842
		T (°C)	-10	5700.0043	5700	0.00430	-0.7544
		T (°C)	0	5700.0075	5700	0.00750	-1.3158
		T (°C)	10	5700.0271	5700	0.02710	-4.7544
		T (°C)	20	5700.0264	5700	0.02640	-4.6316
		T (°C)	30	5700.0114	5700	0.01140	-2.0000
		T (°C)	40	5700.0075	5700	0.00750	-1.3158
		T (°C)	50	5700.0093	5700	0.00930	-1.6316
		T (°C)	60	5700.0288	5700	0.02880	-5.0526
		T (°C)	70	5700.0015	5700	0.00150	-0.2632
Limits				Within 5470-5725MHz			
Result				Complies			

EUT :	V2 Two-in-One Tablet	Model Name. :	E134
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 11.55V
Test Mode :	TX Frequency(5745-5825MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5745.0246	5745	0.02460	-4.2820
		V max (V)	13.28	5745.0137	5745	0.01370	-2.3847
		V min (V)	9.82	5745.0253	5745	0.02530	-4.4038
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5745.0133	5745	0.01330	-2.3151
		T (°C)	-10	5745.0021	5745	0.00210	-0.3655
		T (°C)	0	5745.0212	5745	0.02120	-3.6902
		T (°C)	10	5745.0145	5745	0.01450	-2.5239
		T (°C)	20	5745.0297	5745	0.02970	-5.1697
		T (°C)	30	5745.0285	5745	0.02850	-4.9608
		T (°C)	40	5745.0037	5745	0.00370	-0.6440
		T (°C)	50	5745.0255	5745	0.02550	-4.4386
		T (°C)	60	5745.0181	5745	0.01810	-3.1506
		T (°C)	70	5745.0287	5745	0.02870	-4.9956
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5785.0111	5785	0.01110	-1.9188
		V max (V)	13.28	5785.0129	5785	0.01290	-2.2299
		V min (V)	9.82	5785.0004	5785	0.00040	-0.0691
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5785.0041	5785	0.00410	-0.7087
		T (°C)	-10	5785.0121	5785	0.01210	-2.0916
		T (°C)	0	5785.0076	5785	0.00760	-1.3137
		T (°C)	10	5785.0013	5785	0.00130	-0.2247
		T (°C)	20	5785.0286	5785	0.02860	-4.9438
		T (°C)	30	5785.0284	5785	0.02840	-4.9092
		T (°C)	40	5785.0139	5785	0.01390	-2.4028
		T (°C)	50	5785.0283	5785	0.02830	-4.8920
		T (°C)	60	5785.0056	5785	0.00560	-0.9680
		T (°C)	70	5785.0117	5785	0.01170	-2.0225
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	11.55	5825.0034	5825	0.00340	-0.5837
		V max (V)	13.28	5825.0173	5825	0.01730	-2.9700
		V min (V)	9.82	5825.0078	5825	0.00780	-1.3391
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	11.55	T (°C)	-20	5825.0289	5825	0.02890	-4.9614
		T (°C)	-10	5825.0298	5825	0.02980	-5.1159
		T (°C)	0	5825.0055	5825	0.00550	-0.9442
		T (°C)	10	5825.0223	5825	0.02230	-3.8283
		T (°C)	20	5825.0099	5825	0.00990	-1.6996
		T (°C)	30	5825.0056	5825	0.00560	-0.9614
		T (°C)	40	5825.0096	5825	0.00960	-1.6481
		T (°C)	50	5825.0142	5825	0.01420	-2.4378
		T (°C)	60	5825.0205	5825	0.02050	-3.5193
		T (°C)	70	5825.0044	5825	0.00440	-0.7554
Limits				Within 5745-5850MHz			
Result				Complies			

Note: antenna 1 is the worst case.

9. DYNAMIC FREQUENCY SELECTION(DFS)

9.1 APPLICABILITY OF DFS REQUIREMENTS

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

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

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

Table 2: Applicability of DFS requirements during normal operation

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

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

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

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

9.3 DFS RESPONSE REQUIREMENT VALUES

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

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

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

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

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

9.4 SHORT PULSE RADAR TEST WAVEFORMS

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

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

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

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

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

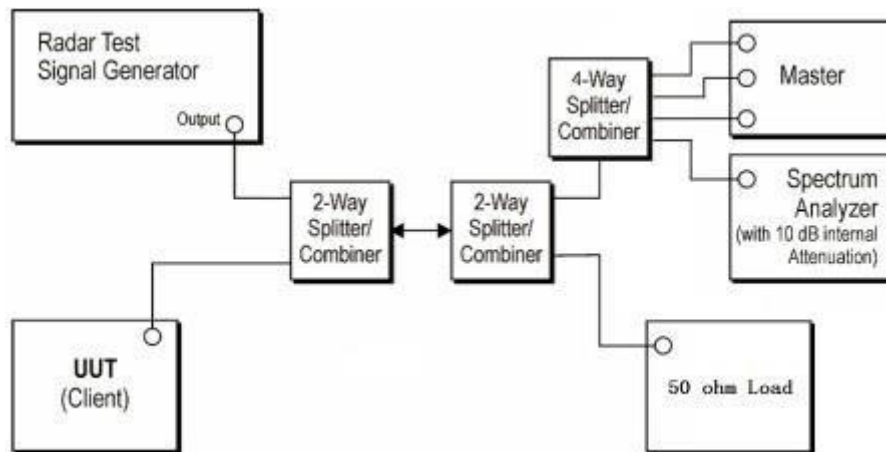
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types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

9.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

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

9.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	LINKSYS LLC
	Model NO.	WRT32X
	FCC ID	Q87-WRT3200ACM

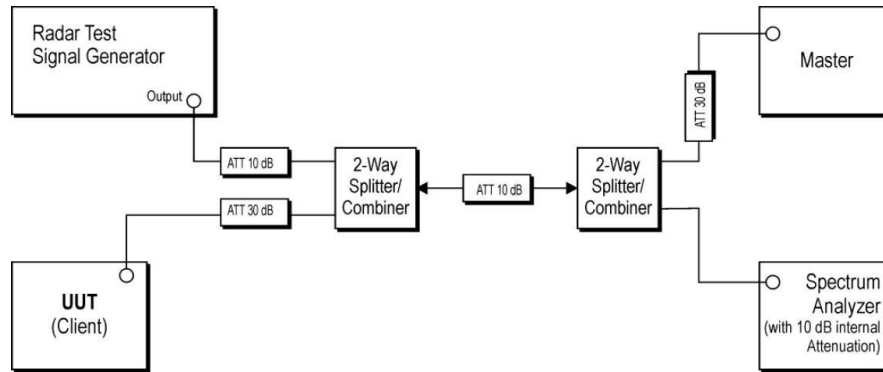
9.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

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

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

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

TEST MODE:

Please refer to the clause 2.2

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

Test data reference attachment.

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is permanent attached FPCB antenna (antenna gain: 1.58dBi). It comply with the standard requirement.

END OF REPORT