TEST REPORT

FCC ID: 2AIZN-X6856

Product: Mobile Phone

Model No.: X6856

Trade Mark: Infinix

Report No.: WSCT-ANAB-R&E241200075A-Wi-Fi2

Issued Date: 06 January 2025

Issued for:

INFINIX MOBILITY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd.

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1 Test Certification

Product:	Mobile Phone
Model No.:	X6856
Additional Model:	Infinix
Applicant:	**INFINIX MOBILITY LIMITED** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	**INFINIX MOBILITY LIMITED** FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Date of Test:	11 November 2024 to 06 January 2025
Applicable Standards:	FCC CFR Title 47 FCC Part 15 Subpart E

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Wang Xiang
(Wang Xiang)

Checked By: Chen Xu
(Chen Xu)

Approved By: Li Huaibi
(Li Huaibi)

Date: 06 January 2025

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. WSCT

World Standardization Certification& Testing Group(Shenzhen) Co.,Ltd WSCT

2 EUT Description

Product:	Mobile Phone
Model No.:	X6856
Trade Mark:	Infinix
Operation Frequency:	Band 1: 5180-5240 MHz Band 2: 5260-5320 MHz Band 3: 5500-5700 MHz Band 4: 5745-5825 MHz
Modulation type:	IEEE 802.11a/n/ac/ax: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Antenna Type:	Integral Antenna
Antenna Gain	ANT1:-2.61dBi, ANT2:-0.25dBi
Operating Voltage:	Adapter: U900XSA Input: 100-240V~50/60Hz 0.6A Output: 5.0V⎓2.4A or 7.5V⎓2.4A 18.0W MAX Rechargeable Li-ion Polymer Battery Model: BL-5ABX Rated Voltage: 3.86V Rated Capacity: 4900mAh/18.97Wh Typical Capacity: 5000mAh/19.35Wh Limited Charge Voltage: 4.45V
Remark:	N/A.

Note: 1. N/A stands for no applicable.
2. The antenna gain is provided by the customer. For any reported data issues caused by the antenna gain, World Standardization Certification&Testing Group (Shenzhen) Co., Ltd assumes no responsibility.

3 TEST DESCRIPTION

3.1 MEASUREMENT UNCERTAINTY

No.	Item	Uncertainty
1	Conducted Emission Test	±3.2dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1GHz)	±4.7dB
5	All emissions, radiated(>1GHz)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2%
8	Receiver Spurious Emissions	±2.5%
9	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
10	Transmitter Unwanted Emission in the out-of Band	±1.3%
11	Occupied Channel Bandwidth	±2.4%

NOTE:1.The reported uncertainty of measurement y ± 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 %.
2. The Ulab is less than Ucispr, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows：any additionan uncertaimty in the test system over and above that specified in harmonized standard should be used to tighter the test requirements-making the test harder to pass. This procedure will ensure that a test system not comliant with harmonized standard does not increase the probability of passing a EUT that would otherwise have failed a test if a test system comliant with harmonized standard had been used.

3.2 TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

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.

Test Mode	Description
Mode 1	802.11a
Mode 2	802.11n20
Mode 3	802.11n40
Mode 4	802.11ac20
Mode 5	802.11ac40
Mode 6	802.11ac80

Note:

(1) The measurements are performed at the highest, lowest available channels.

(2) The EUT use new battery.

(3) Record the worst case of each test item in this report.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

Test program	*#*#3646633#*#*							
Mode	Test Frequency (MHz)							
	NCB: 20MHz							
802.11a	5180	5240	5260	5320	5500	5700	5745	5825
802.11n	5180	5240	5260	5320	5500	5700	5745	5825
802.11ac	5180	5240	5260	5320	5500	5700	5745	5825
	NCB: 40MHz							
802.11n	5190	5230	5270	5310	5510	5670	5755	5795
802.11ac	5190	5230	5270	5310	5510	5670	5755	5795
	NCB: 80MHz							
802.11ac	5210	5290	5530	5610	5775			

CONFIGURATION OF SYSTEM UNDER TEST

(EUT: Mobile Phone)

3.4 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	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	U900XSA	/	/

Note:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.
(4) The adapter supply by the applicant.

4 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 Subpart C&E			
Standard Section	Test Item	Judgment	Remark
2.1049 15.403(i)	26dB & 99% Bandwidth	PASS	Complies
15.407(e)	6dB Spectrum Bandwidth	PASS	Complies
15.407(a)	Maximum Conducted Output Power	PASS	Complies
15.407(a)	Power Spectral Density	PASS	Complies
15.407(b)	Unwanted Emissions	PASS	Complies
15.207	AC Conducted Emission	PASS	Complies
15.407(g)	Frequency Stability	PASS	Complies
15.407(c)	Automatically Discontinue Transmission	PASS	Complies
15.203 & 15.407(a)	Antenna Requirement	PASS	Complies
15.407(h)	Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	PASS	Complies

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

5 MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
Test software	--	EZ-EMC	CON-03A	-	-
Test software	--	MTS8310	-	-	-
EMI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025
LISN	AFJ	LS16	16010222119	11/05/2024	11/04/2025
LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2024	11/04/2025
Coaxial cable	Megalon	LMR400	N/A	11/05/2024	11/04/2025
GPIB cable	Megalon	GPIB	N/A	11/05/2024	11/04/2025
Spectrum Analyzer	R&S	FSU	100114	11/05/2024	11/04/2025
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025
Pre-Amplifier	CDSI	PAP-1G18-38	--	11/05/2024	11/04/2025
Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2024	7/28/2025
9*6*6 Anechoic	--	--	--	11/05/2024	11/04/2025
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	11/05/2024	11/04/2025
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2024	11/04/2025
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2024	11/04/2025
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	11/05/2024	11/04/2025
Loop Antenna	EMCO	6502	00042960	11/05/2024	11/04/2025
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2024	11/04/2025
Power meter	Anritsu	ML2487A	6K00003613	11/05/2024	11/04/2025
Power sensor	Anritsu	MX248XD	--	11/05/2024	11/04/2025
Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2024	11/04/2025

6 Facilities and Accreditations

6.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China of the World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6.2 ACCREDITATIONS

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB).Certification Number: AT-3951

7 Test Results and Measurement Data

7.1 CONDUCTED EMISSION MEASUREMENT

POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

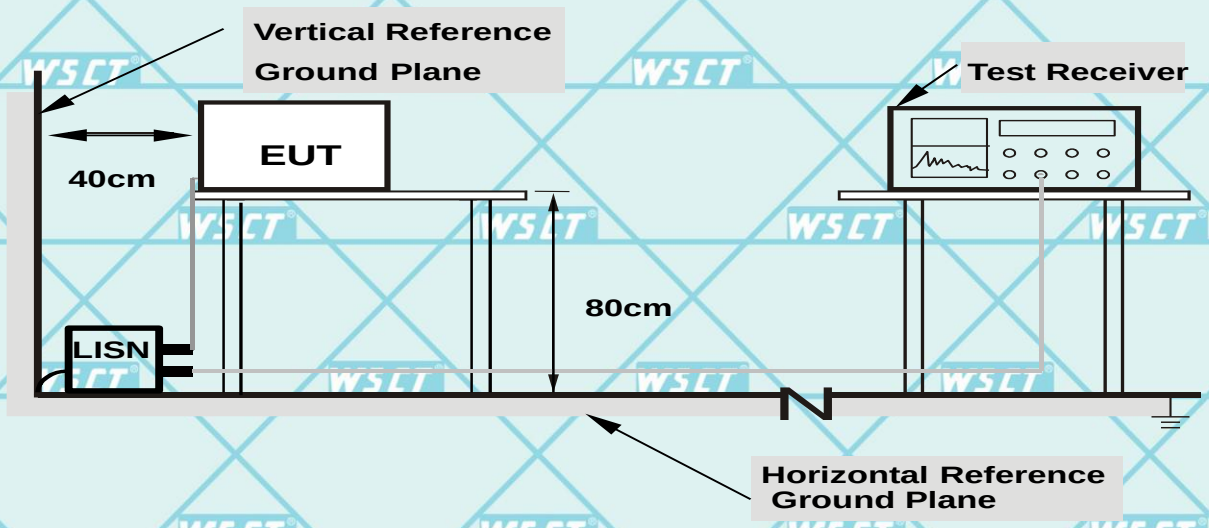
7.1.1 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.2 DEVIATION FROM TEST STANDARD

No deviation

TEST SETUP



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

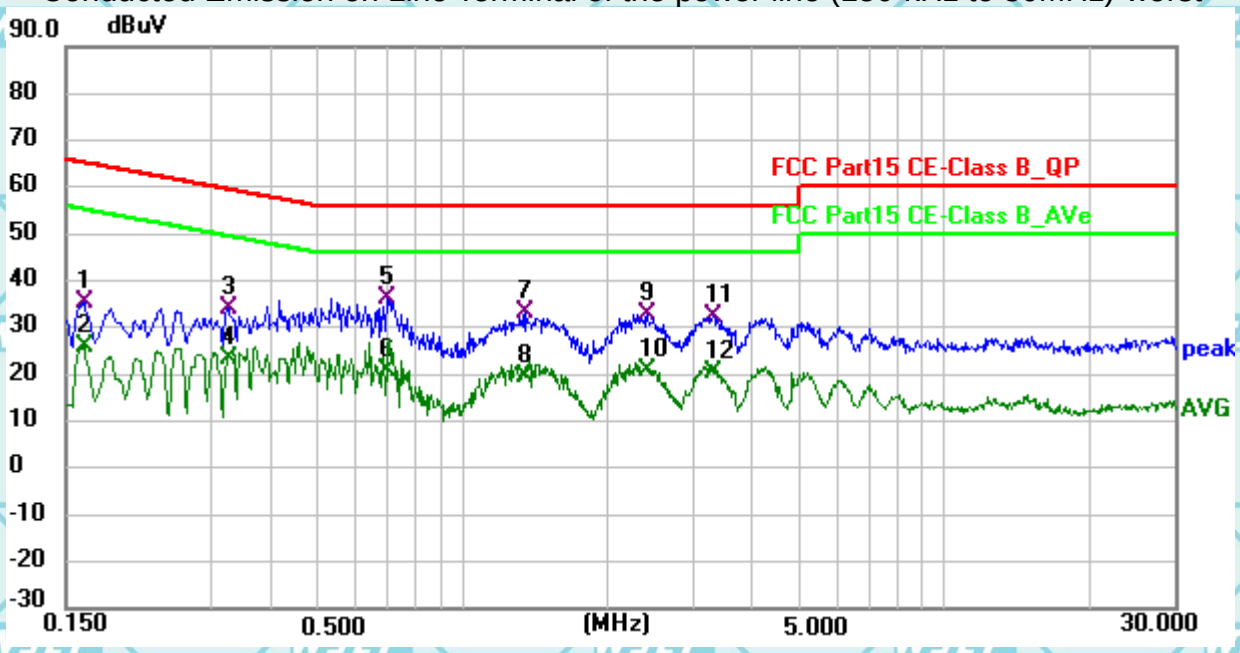
7.2.1 EUT OPERATING CONDITIONS

The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

7.2.2 TEST RESULTS

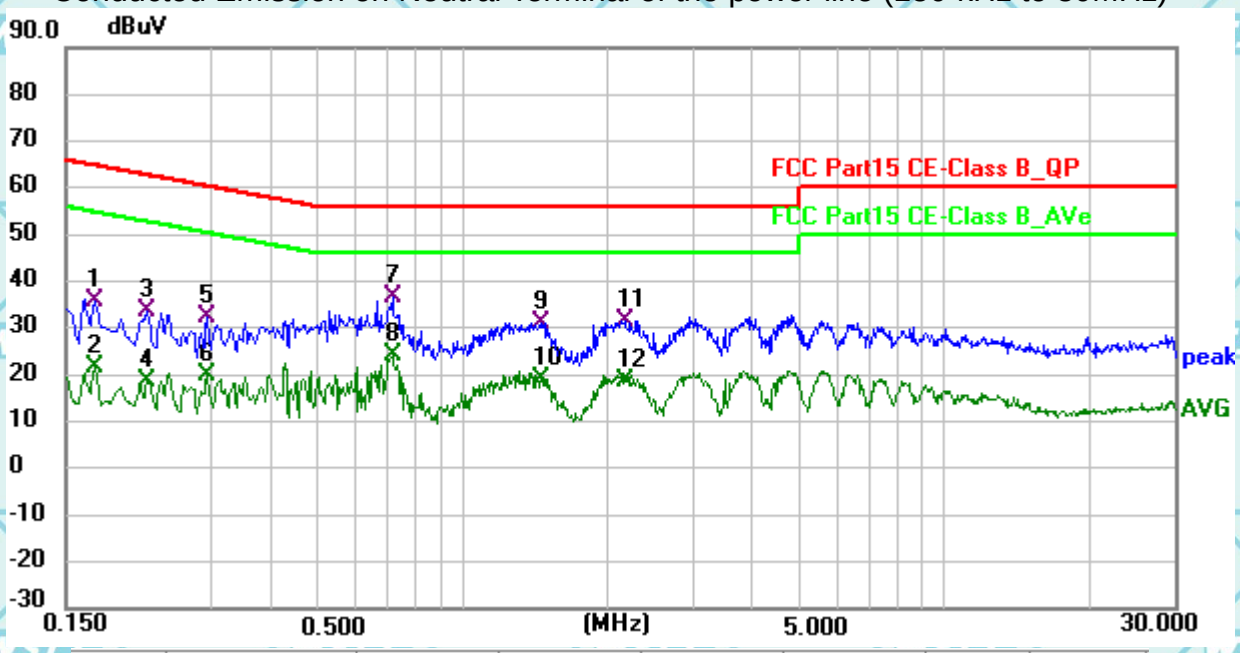
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)-worst



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1635	14.49	20.72	35.21	65.28	-30.07	QP
2	0.1635	5.01	20.72	25.73	55.28	-29.55	AVG
3	0.3255	13.60	20.61	34.21	59.57	-25.36	QP
4	0.3255	2.94	20.61	23.55	49.57	-26.02	AVG
5 *	0.6945	15.76	20.54	36.30	56.00	-19.70	QP
6	0.6945	0.14	20.54	20.68	46.00	-25.32	AVG
7	1.3470	12.38	20.65	33.03	56.00	-22.97	QP
8	1.3470	-1.07	20.65	19.58	46.00	-26.42	AVG
9	2.4090	12.23	20.60	32.83	56.00	-23.17	QP
10	2.4090	0.20	20.60	20.80	46.00	-25.20	AVG
11	3.3135	11.97	20.59	32.56	56.00	-23.44	QP
12	3.3135	-0.32	20.59	20.27	46.00	-25.73	AVG

Remark: All the modes have been investigated, and only worst mode is presented in this report.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1725	15.24	20.71	35.95	64.84	-28.89	QP
2	0.1725	0.83	20.71	21.54	54.84	-33.30	AVG
3	0.2220	13.11	20.68	33.79	62.74	-28.95	QP
4	0.2220	-2.09	20.68	18.59	52.74	-34.15	AVG
5	0.2940	11.60	20.63	32.23	60.41	-28.18	QP
6	0.2940	-0.85	20.63	19.78	50.41	-30.63	AVG
7 *	0.7170	15.90	20.55	36.45	56.00	-19.55	QP
8	0.7170	3.66	20.55	24.21	46.00	-21.79	AVG
9	1.4505	10.52	20.64	31.16	56.00	-24.84	QP
10	1.4505	-1.66	20.64	18.98	46.00	-27.02	AVG
11	2.1750	10.93	20.61	31.54	56.00	-24.46	QP
12	2.1750	-2.18	20.61	18.43	46.00	-27.57	AVG

Note1:

Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = Antenna factor + Cable loss
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)
Q.P. =Quasi-Peak AVG =average
** is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.*

7.3 RADIATED EMISSION MEASUREMENT

Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

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.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

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

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 / 1Hz 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

7.3.1 TEST PROCEDURE

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

Note:

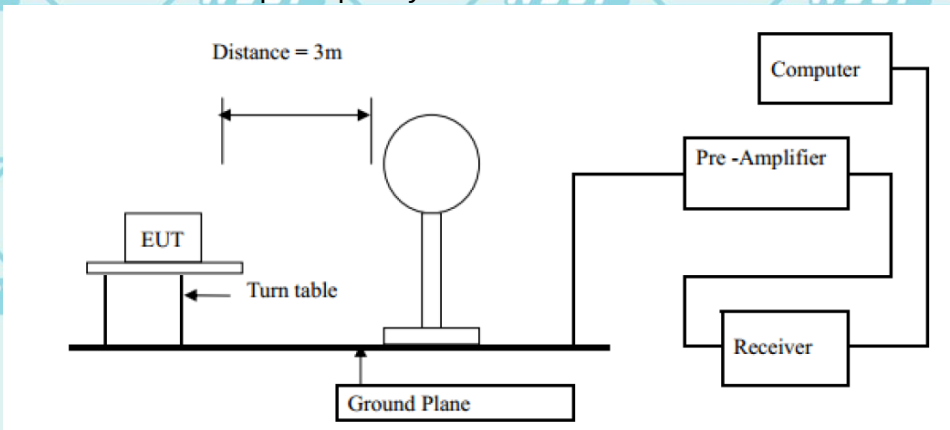
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

7.3.2 DEVIATION FROM TEST STANDARD

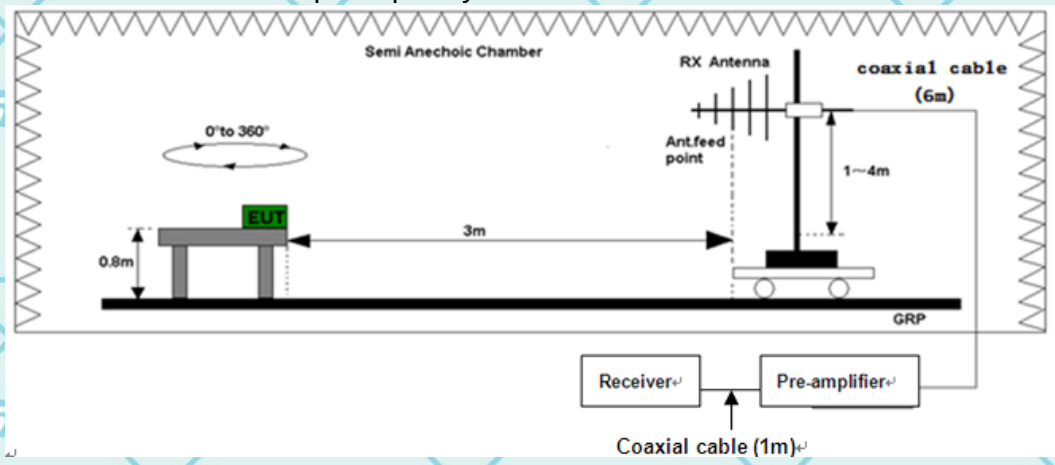
No deviation

7.3.3 TEST SETUP

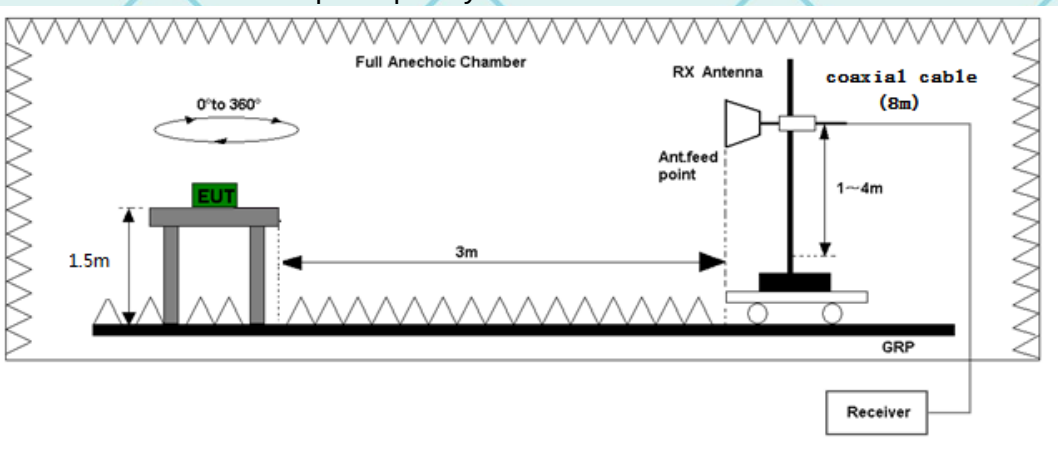
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



（C）Radiated Emission Test-Up Frequency Above 1GHz



7.3.4 EUT OPERATING CONDITIONS

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

7.3.5 RESULTS (BELOW 30 MHZ)

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

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz，According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

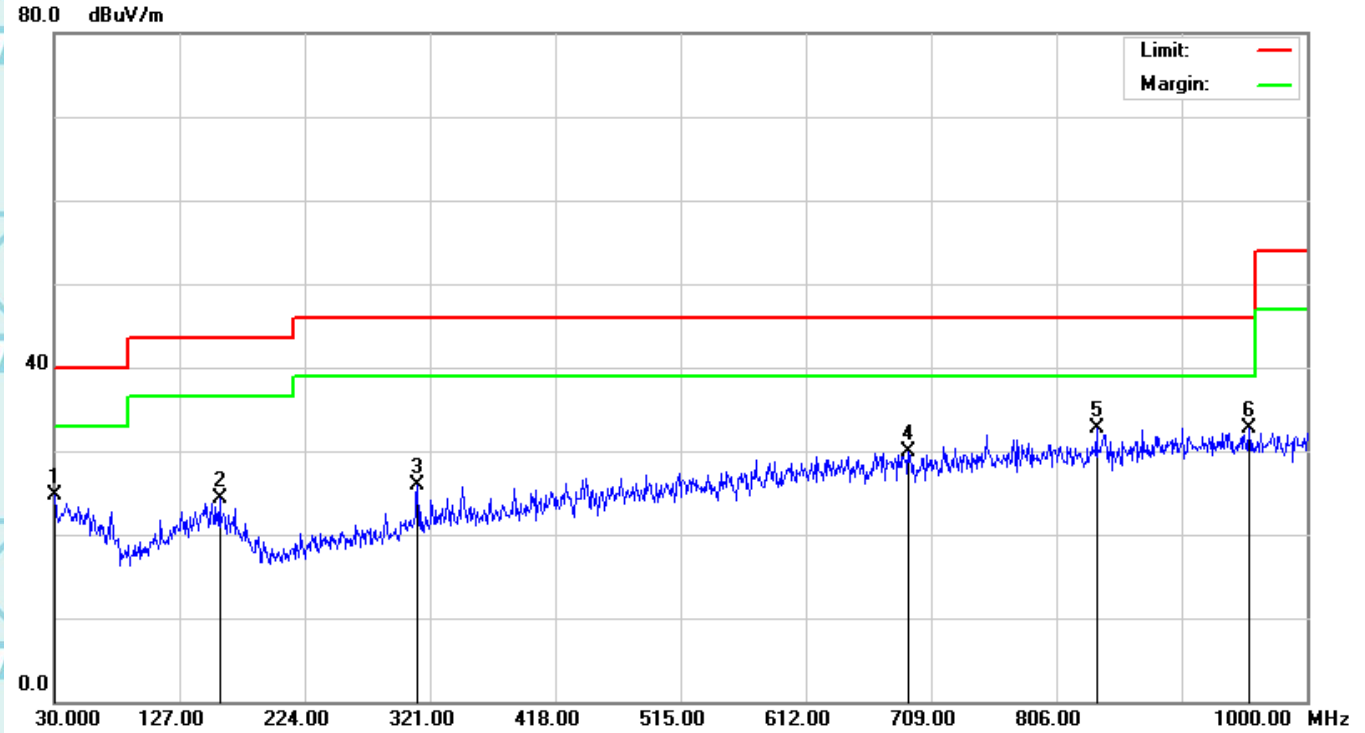
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

7.3.6 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

Please refer to following diagram for individual

Below 1GHz

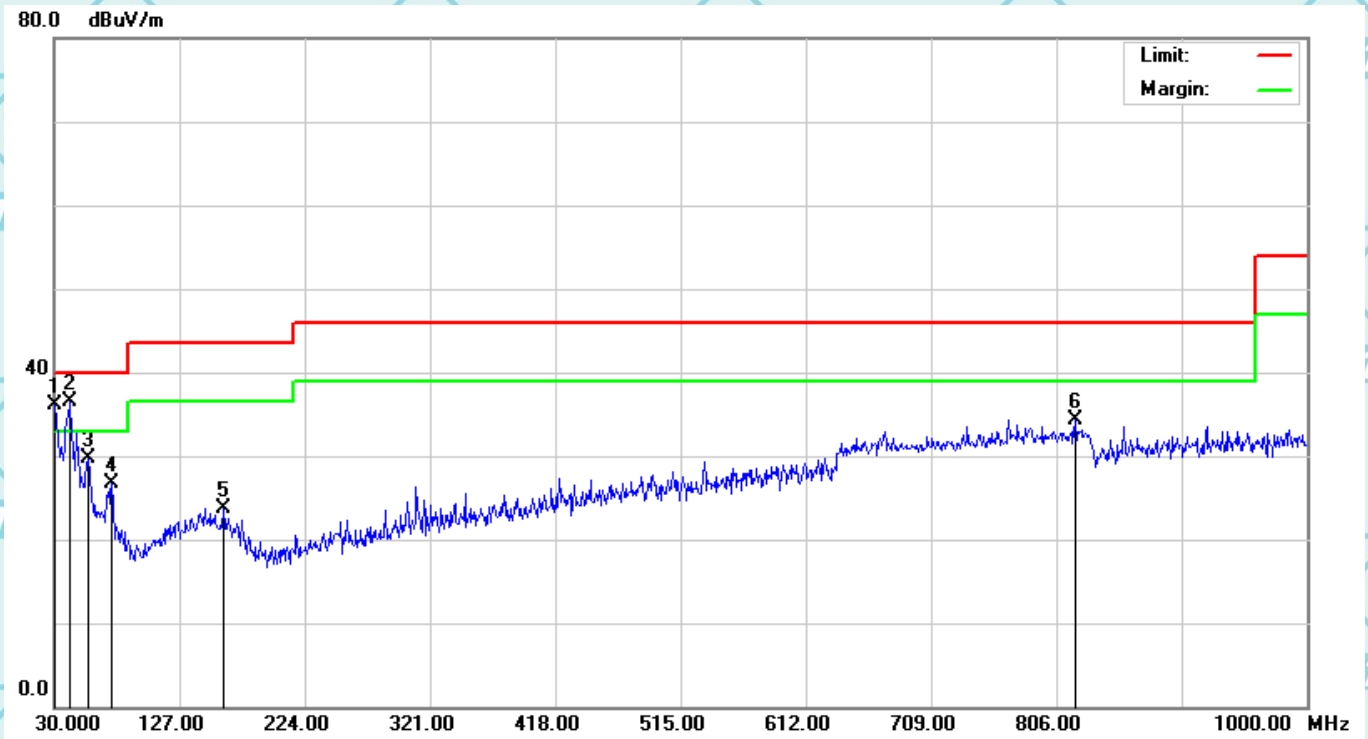
Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		30.9700	27.27	-2.57	24.70	40.00	-15.30	QP
2		158.0399	25.99	-1.73	24.26	43.50	-19.24	QP
3		311.3000	28.00	-2.16	25.84	46.00	-20.16	QP
4		691.5400	24.81	5.13	29.94	46.00	-16.06	QP
5	*	837.0400	26.16	6.61	32.77	46.00	-13.23	QP
6		955.3800	24.62	8.12	32.74	46.00	-13.26	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

Vertical:



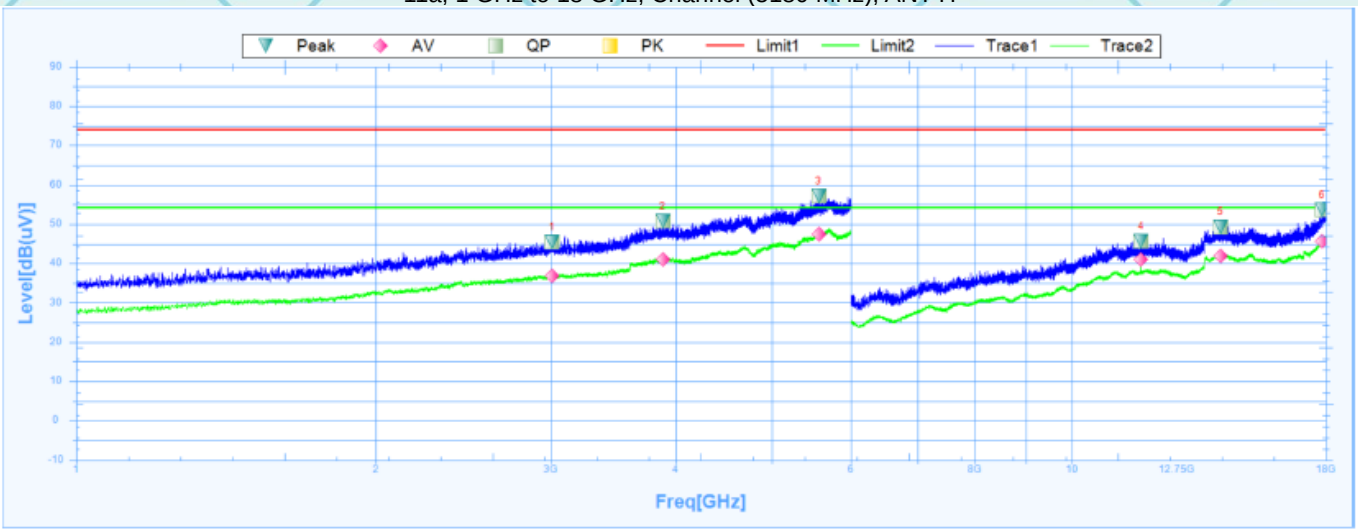
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	!	30.9700	38.73	-2.57	36.16	40.00	-3.84	QP
2	*	41.6400	38.15	-1.69	36.46	40.00	-3.54	QP
3		56.1900	32.21	-2.57	29.64	40.00	-10.36	QP
4		74.6200	32.13	-5.45	26.68	40.00	-13.32	QP
5		160.9500	25.36	-1.72	23.64	43.50	-19.86	QP
6		820.5500	27.87	6.44	34.31	46.00	-11.69	QP

Note1:
Freq. = Emission frequency in MHz
Reading level (dBμV) = Receiver reading
Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.
Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)
Limit (dBμV) = Limit stated in standard
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

7.3.7 TEST RESULTS (ABOVE 1GHZ)

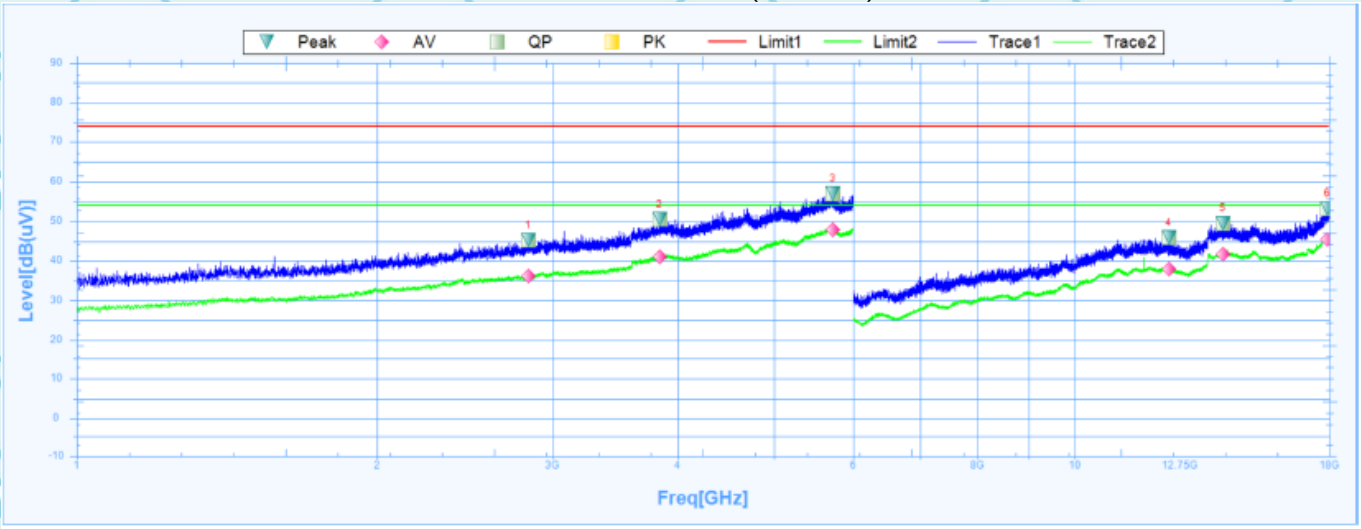
Note: 1.The spurious above 18G is noise only, do not show on the report.
2. Report and only recorded the worst-case scenario 802.11a.

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT H



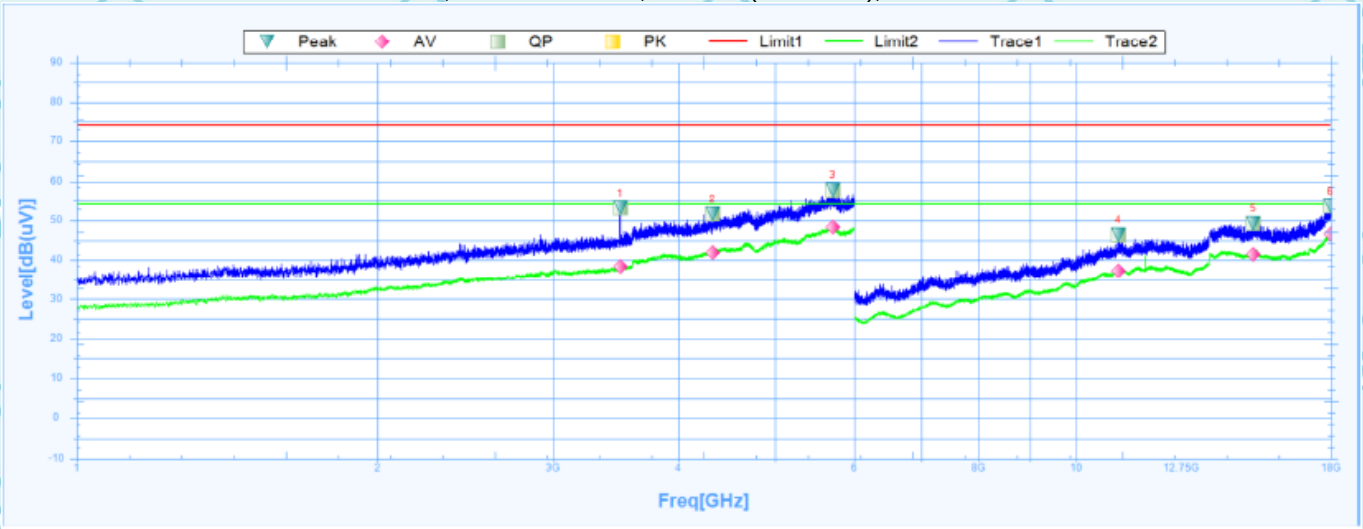
Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3005.6250	45.54	8.02	37.52	74	-28.46	1.9	Horizontal	PK	Pass
1	3005.6250	36.84	8.02	28.82	54	-17.16	1.9	Horizontal	AV	Pass
2	3883.1250	50.71	11.16	39.55	74	-23.29	149.7	Horizontal	PK	Pass
2	3883.1250	41.12	11.16	29.96	54	-12.88	149.7	Horizontal	AV	Pass
3	5571.2500	57.22	20.01	37.21	74	-16.78	31.4	Horizontal	PK	Pass
3	5571.2500	47.52	20.01	27.51	54	-6.48	31.4	Horizontal	AV	Pass
4	11745.0000	45.68	38.83	6.85	74	-28.32	198.2	Horizontal	PK	Pass
4	11745.0000	40.95	38.83	2.12	54	-13.05	198.2	Horizontal	AV	Pass
5	14109.0000	49.31	41.36	7.95	74	-24.69	249.7	Horizontal	PK	Pass
5	14109.0000	41.83	41.36	0.47	54	-12.17	249.7	Horizontal	AV	Pass
6	17839.5000	53.67	45.42	8.25	74	-20.33	87.1	Horizontal	PK	Pass
6	17839.5000	45.63	45.42	0.21	54	-8.37	87.1	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5180 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2834.3750	45.26	7.08	38.18	74	-28.74	311.1	Vertical	PK	Pass
1	2834.3750	36.23	7.08	29.15	54	-17.77	311.1	Vertical	AV	Pass
2	3836.8750	50.45	10.91	39.54	74	-23.55	321.9	Vertical	PK	Pass
2	3836.8750	41.1	10.91	30.19	54	-12.9	321.9	Vertical	AV	Pass
3	5723.7500	56.93	21.11	35.82	74	-17.07	15.7	Vertical	PK	Pass
3	5723.7500	47.93	21.11	26.82	54	-6.07	15.7	Vertical	AV	Pass
4	12427.5000	45.86	38.73	7.13	74	-28.14	359.5	Vertical	PK	Pass
4	12427.5000	37.92	38.73	-0.81	54	-16.08	359.5	Vertical	AV	Pass
5	14074.5000	49.54	41.4	8.14	74	-24.46	281.8	Vertical	PK	Pass
5	14074.5000	41.79	41.4	0.39	54	-12.21	281.8	Vertical	AV	Pass
6	17913.0000	53.15	45.92	7.23	74	-20.85	90.5	Vertical	PK	Pass
6	17913.0000	45.54	45.92	-0.38	54	-8.46	90.5	Vertical	AV	Pass

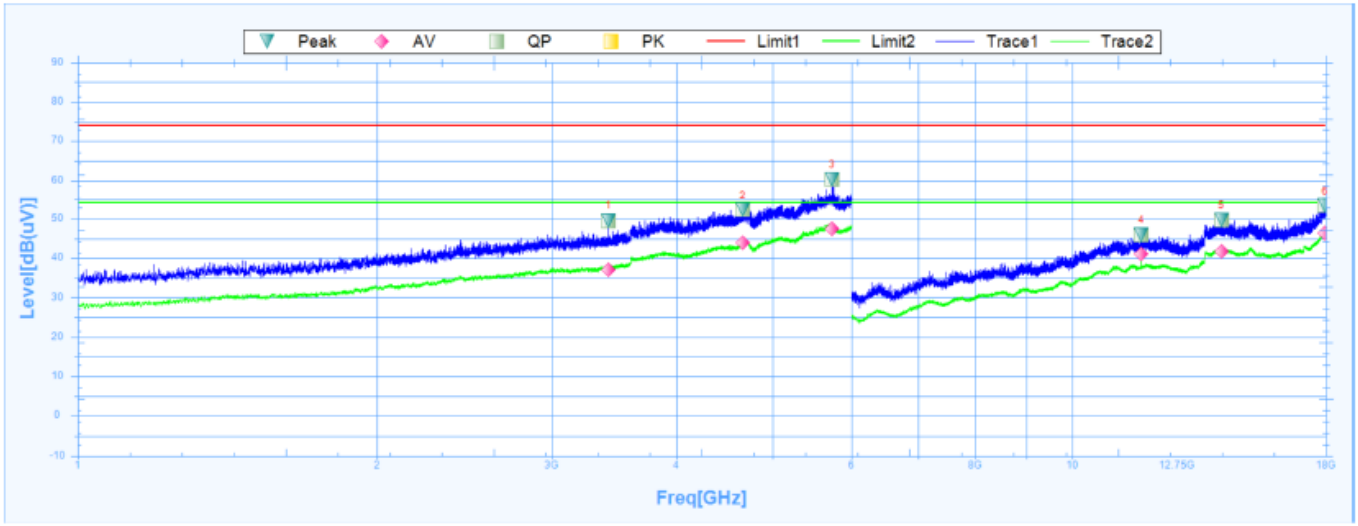
11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT H



Susputed Data List

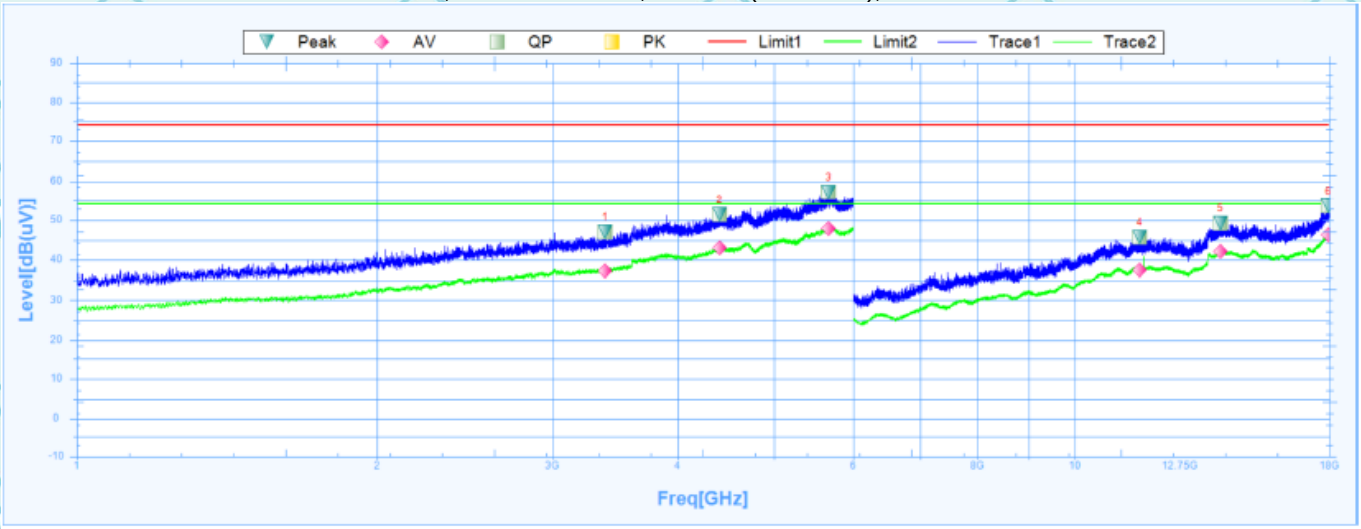
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3498.1250	53.28	9.68	43.6	74	-20.72	29.3	Horizontal	PK	Pass
1	3498.1250	38.46	9.68	28.78	54	-15.54	29.3	Horizontal	AV	Pass
2	4330.0000	51.73	13.27	38.46	74	-22.27	355.9	Horizontal	PK	Pass
2	4330.0000	42.03	13.27	28.76	54	-11.97	355.9	Horizontal	AV	Pass
3	5709.3750	57.9	21.21	36.69	74	-16.1	78.2	Horizontal	PK	Pass
3	5709.3750	48.25	21.21	27.04	54	-5.75	78.2	Horizontal	AV	Pass
4	11026.5000	46.35	39.48	6.87	74	-27.65	82.2	Horizontal	PK	Pass
4	11026.5000	37.34	39.48	-2.14	54	-16.66	82.2	Horizontal	AV	Pass
5	15058.5000	49.25	40.02	9.23	74	-24.75	295	Horizontal	PK	Pass
5	15058.5000	41.58	40.02	1.56	54	-12.42	295	Horizontal	AV	Pass
6	17980.5000	53.63	46.37	7.26	74	-20.37	14.1	Horizontal	PK	Pass
6	17980.5000	46.67	46.37	0.3	54	-7.33	14.1	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5240 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3418.7500	49.53	9.12	40.41	74	-24.47	360.1	Vertical	PK	Pass
1	3418.7500	37.16	9.12	28.04	54	-16.84	360.1	Vertical	AV	Pass
2	4666.2500	52.34	14.6	37.74	74	-21.66	300.6	Vertical	PK	Pass
2	4666.2500	43.81	14.6	29.21	54	-10.19	300.6	Vertical	AV	Pass
3	5739.3750	60.28	20.93	39.35	74	-13.72	315	Vertical	PK	Pass
3	5739.3750	47.55	20.93	26.62	54	-6.45	315	Vertical	AV	Pass
4	11745.0000	45.84	38.83	7.01	74	-28.16	142	Vertical	PK	Pass
4	11745.0000	41.03	38.83	2.2	54	-12.97	142	Vertical	AV	Pass
5	14134.5000	49.74	41.33	8.41	74	-24.26	309.4	Vertical	PK	Pass
5	14134.5000	41.78	41.33	0.45	54	-12.22	309.4	Vertical	AV	Pass
6	17958.0000	53.32	46.22	7.1	74	-20.68	102.6	Vertical	PK	Pass
6	17958.0000	46.26	46.22	0.04	54	-7.74	102.6	Vertical	AV	Pass

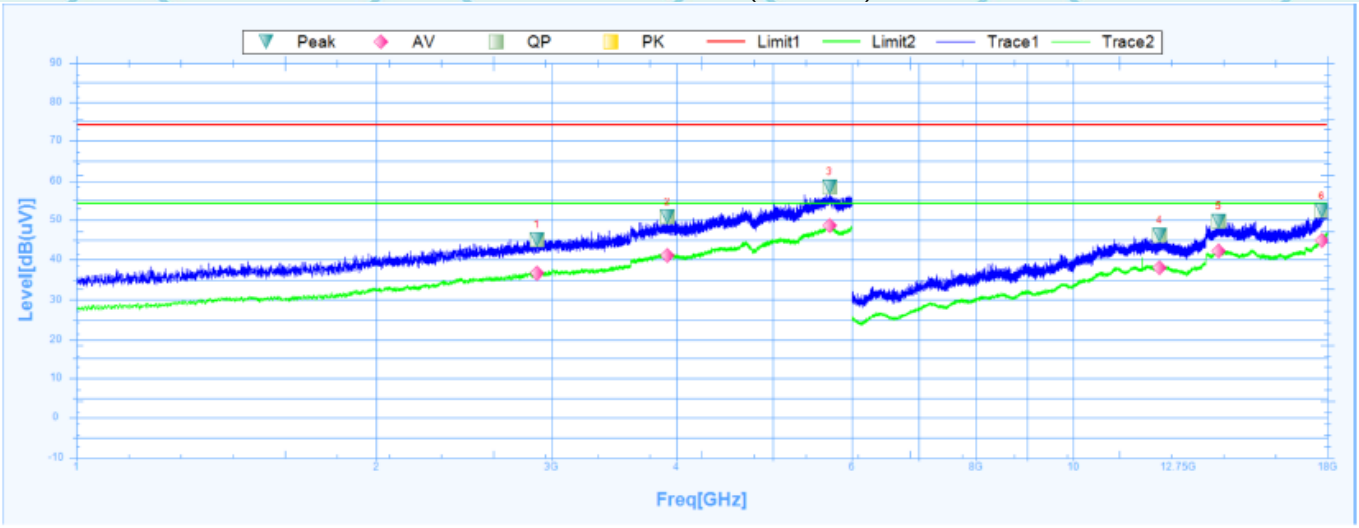
11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT H



Susputed Data List

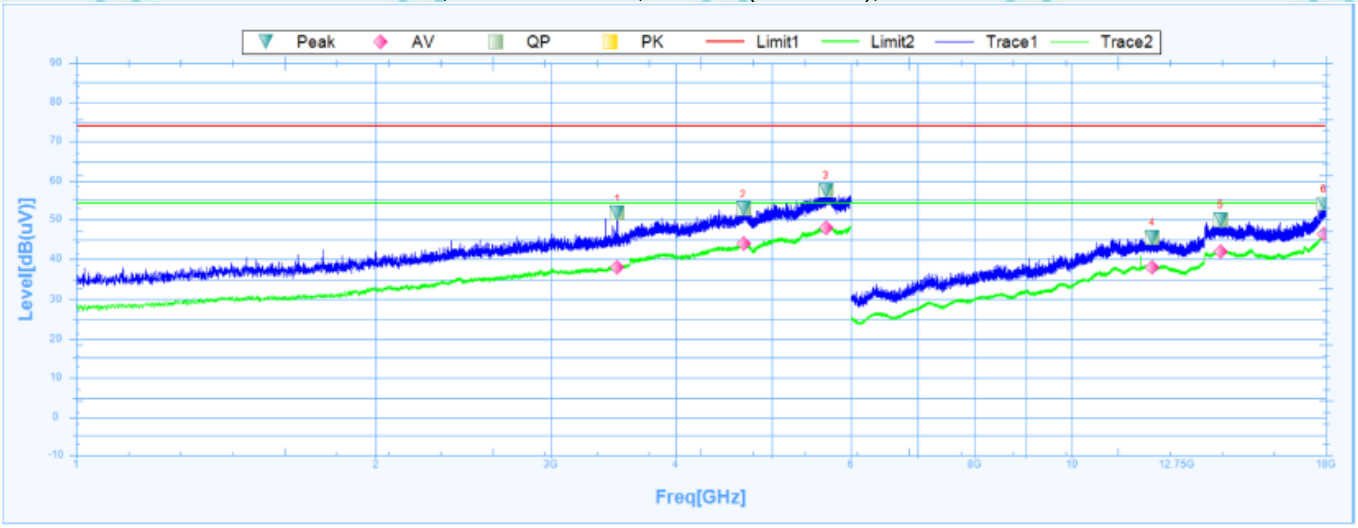
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3385.0000	46.92	8.96	37.96	74	-27.08	359.9	Horizontal	PK	Pass
1	3385.0000	37.34	8.96	28.38	54	-16.66	359.9	Horizontal	AV	Pass
2	4411.8750	51.36	13.53	37.83	74	-22.64	0.4	Horizontal	PK	Pass
2	4411.8750	42.94	13.53	29.41	54	-11.06	0.4	Horizontal	AV	Pass
3	5671.8750	57.15	20.84	36.31	74	-16.85	359.9	Horizontal	PK	Pass
3	5671.8750	47.81	20.84	26.97	54	-6.19	359.9	Horizontal	AV	Pass
4	11622.0000	45.7	38.94	6.76	74	-28.3	275.8	Horizontal	PK	Pass
4	11622.0000	37.56	38.94	-1.38	54	-16.44	275.8	Horizontal	AV	Pass
5	14001.0000	49.24	41.5	7.74	74	-24.76	107.4	Horizontal	PK	Pass
5	14001.0000	42.07	41.5	0.57	54	-11.93	107.4	Horizontal	AV	Pass
6	17961.0000	53.54	46.24	7.3	74	-20.46	0	Horizontal	PK	Pass
6	17961.0000	46.35	46.24	0.11	54	-7.65	0	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5260 MHz), ANT V



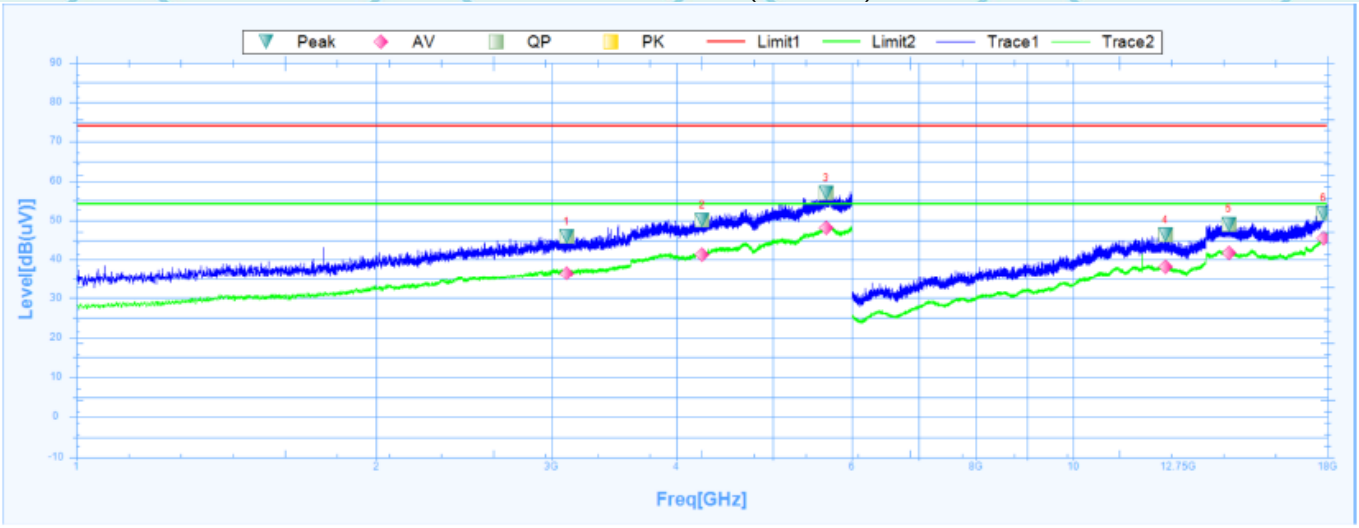
Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2898.1250	45.05	7.41	37.64	74	-28.95	228.8	Vertical	PK	Pass
1	2898.1250	36.58	7.41	29.17	54	-17.42	228.8	Vertical	AV	Pass
2	3919.3750	50.67	11.35	39.32	74	-23.33	121.2	Vertical	PK	Pass
2	3919.3750	41.11	11.35	29.76	54	-12.89	121.2	Vertical	AV	Pass
3	5699.3750	58.39	21.1	37.29	74	-15.61	118.8	Vertical	PK	Pass
3	5699.3750	48.58	21.1	27.48	54	-5.42	118.8	Vertical	AV	Pass
4	12216.0000	46.09	38.66	7.43	74	-27.91	152.8	Vertical	PK	Pass
4	12216.0000	37.99	38.66	-0.67	54	-16.01	152.8	Vertical	AV	Pass
5	13999.5000	49.67	41.5	8.17	74	-24.33	91.9	Vertical	PK	Pass
5	13999.5000	42.04	41.5	0.54	54	-11.96	91.9	Vertical	AV	Pass
6	17767.5000	52.39	44.94	7.45	74	-21.61	59.6	Vertical	PK	Pass
6	17767.5000	44.75	44.94	-0.19	54	-9.25	59.6	Vertical	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT H



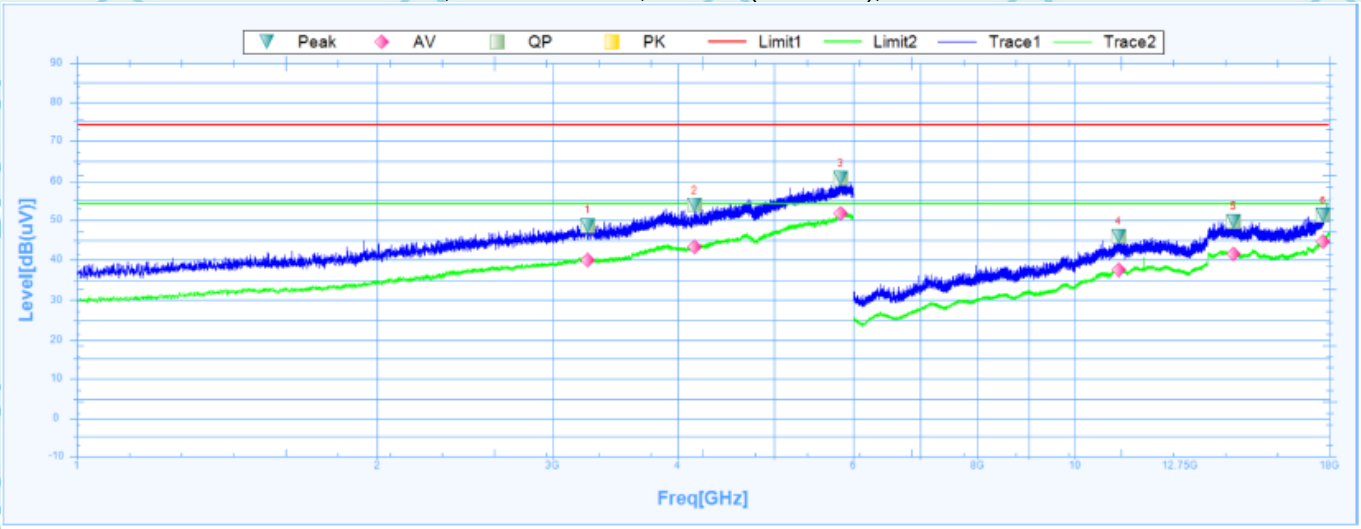
Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3497.5000	51.55	9.67	41.88	74	-22.45	145.5	Horizontal	PK	Pass
1	3497.5000	37.87	9.67	28.2	54	-16.13	145.5	Horizontal	AV	Pass
2	4678.7500	52.8	14.7	38.1	74	-21.2	49.9	Horizontal	PK	Pass
2	4678.7500	44.02	14.7	29.32	54	-9.98	49.9	Horizontal	AV	Pass
3	5665.0000	57.54	20.76	36.78	74	-16.46	318.9	Horizontal	PK	Pass
3	5665.0000	47.94	20.76	27.18	54	-6.06	318.9	Horizontal	AV	Pass
4	12049.5000	45.52	38.61	6.91	74	-28.48	78.2	Horizontal	PK	Pass
4	12049.5000	37.97	38.61	-0.64	54	-16.03	78.2	Horizontal	AV	Pass
5	14107.5000	49.79	41.36	8.43	74	-24.21	59	Horizontal	PK	Pass
5	14107.5000	41.94	41.36	0.58	54	-12.06	59	Horizontal	AV	Pass
6	17913.0000	54	45.92	8.08	74	-20	360.1	Horizontal	PK	Pass
6	17913.0000	46.29	45.92	0.37	54	-7.71	360.1	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5320 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3102.5000	45.91	7.9	38.01	74	-28.09	195.8	Vertical	PK	Pass
1	3102.5000	36.46	7.9	28.56	54	-17.54	195.8	Vertical	AV	Pass
2	4248.7500	50.13	12.62	37.51	74	-23.87	0.1	Vertical	PK	Pass
2	4248.7500	41.32	12.62	28.7	54	-12.68	0.1	Vertical	AV	Pass
3	5655.0000	57.02	20.67	36.35	74	-16.98	0.1	Vertical	PK	Pass
3	5655.0000	48.13	20.67	27.46	54	-5.87	0.1	Vertical	AV	Pass
4	12376.5000	46.24	38.71	7.53	74	-27.76	227.6	Vertical	PK	Pass
4	12376.5000	38.09	38.71	-0.62	54	-15.91	227.6	Vertical	AV	Pass
5	14332.5000	49.09	41.07	8.02	74	-24.91	68.6	Vertical	PK	Pass
5	14332.5000	41.78	41.07	0.71	54	-12.22	68.6	Vertical	AV	Pass
6	17835.0000	51.74	45.39	6.35	74	-22.26	360	Vertical	PK	Pass
6	17835.0000	45.45	45.39	0.06	54	-8.55	360	Vertical	AV	Pass

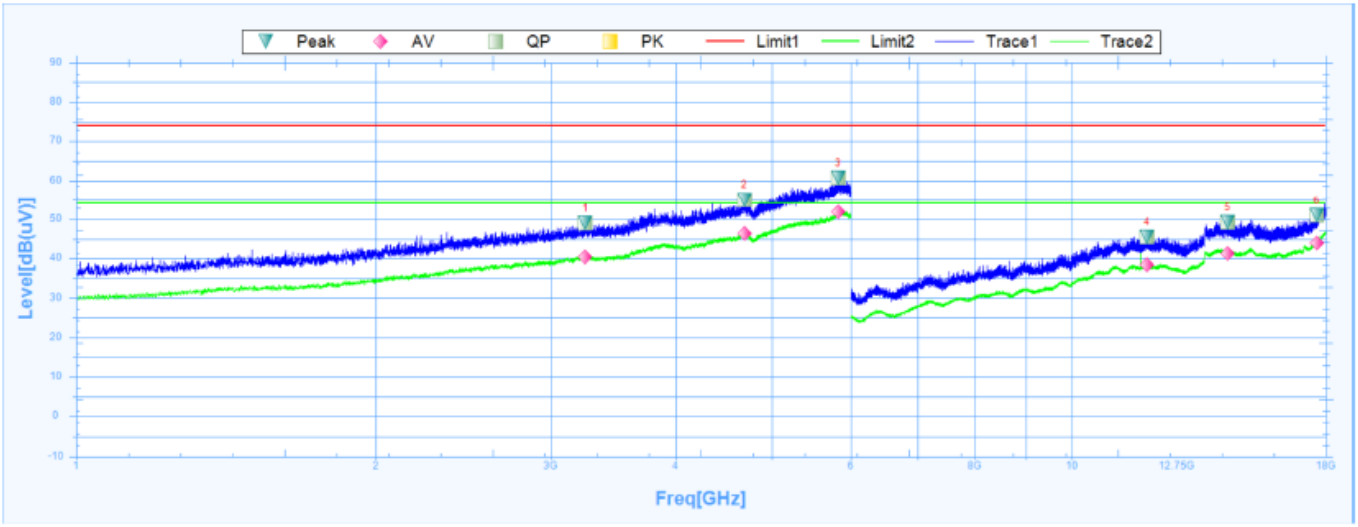
11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3249.3750	48.65	8.58	40.07	74	-25.35	359.1	Horizontal	PK	Pass
1	3249.3750	39.96	8.58	31.38	54	-14.04	359.1	Horizontal	AV	Pass
2	4160.6250	53.88	12.36	41.52	74	-20.12	287.8	Horizontal	PK	Pass
2	4160.6250	43.26	12.36	30.9	54	-10.74	287.8	Horizontal	AV	Pass
3	5830.0000	60.77	20.02	40.75	74	-13.23	351.9	Horizontal	PK	Pass
3	5830.0000	51.61	20.02	31.59	54	-2.39	351.9	Horizontal	AV	Pass
4	11062.5000	45.96	39.44	6.52	74	-28.04	359.9	Horizontal	PK	Pass
4	11062.5000	37.6	39.44	-1.84	54	-16.4	359.9	Horizontal	AV	Pass
5	14428.5000	49.73	40.94	8.79	74	-24.27	7.5	Horizontal	PK	Pass
5	14428.5000	41.43	40.94	0.49	54	-12.57	7.5	Horizontal	AV	Pass
6	17748.0000	51.22	44.81	6.41	74	-22.78	131.8	Horizontal	PK	Pass
6	17748.0000	44.62	44.81	-0.19	54	-9.38	131.8	Horizontal	AV	Pass

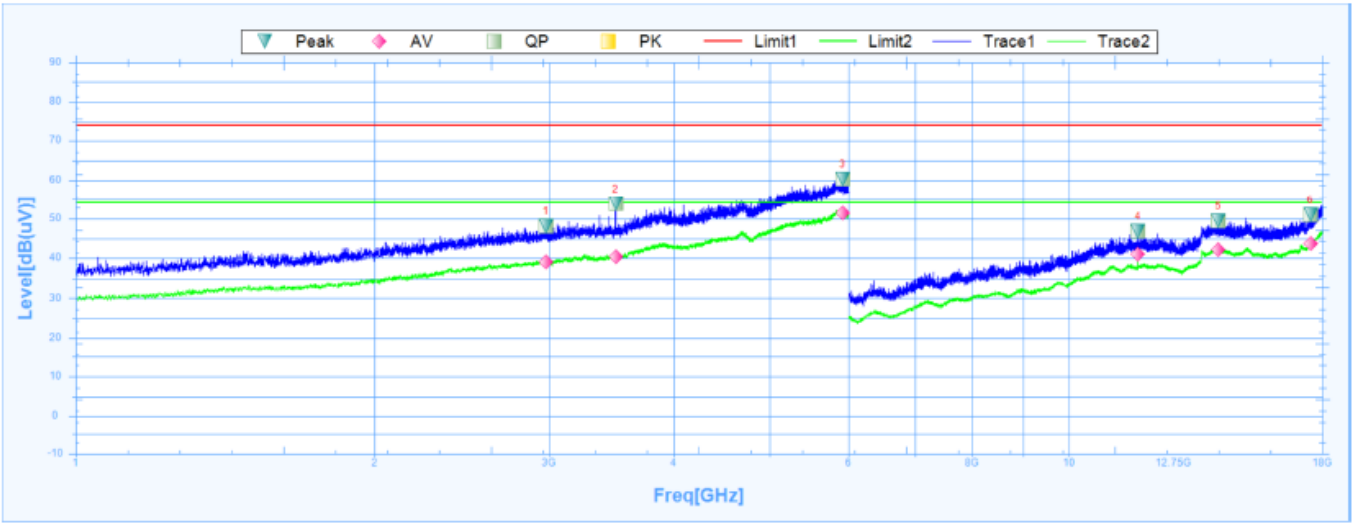
11a, 1 GHz to 18 GHz, Channel (5500 MHz), ANT V



Susputed Data List

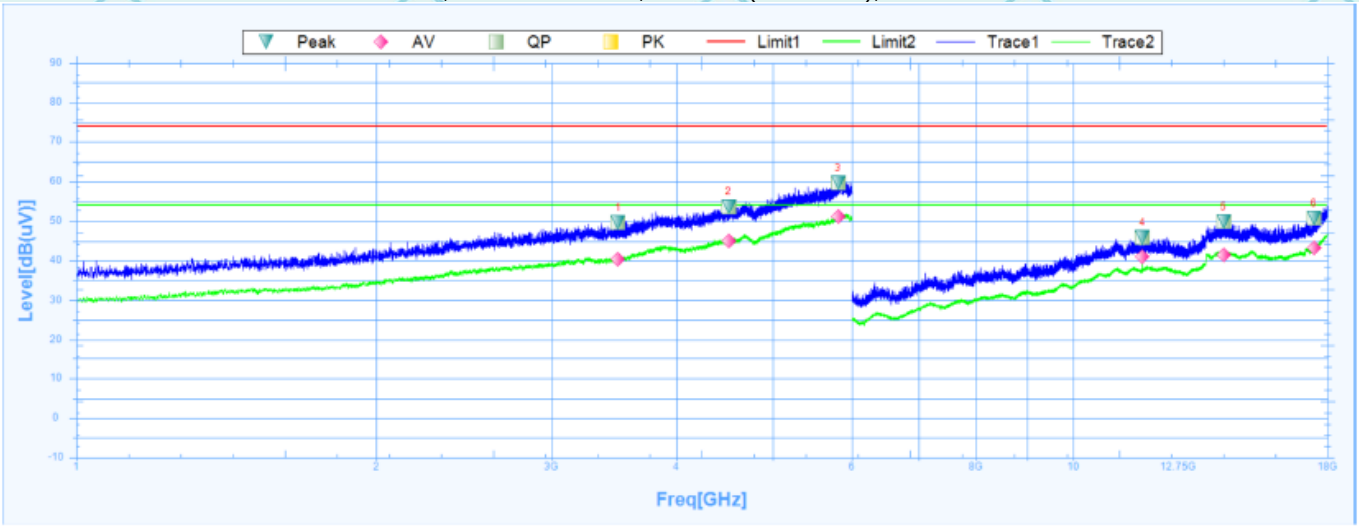
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3247.5000	48.91	8.58	40.33	74	-25.09	0	Vertical	PK	Pass
1	3247.5000	40.42	8.58	31.84	54	-13.58	0	Vertical	AV	Pass
2	4691.2500	55.06	14.76	40.3	74	-18.94	327.3	Vertical	PK	Pass
2	4691.2500	46.3	14.76	31.54	54	-7.7	327.3	Vertical	AV	Pass
3	5829.3750	60.61	20.01	40.6	74	-13.39	70.2	Vertical	PK	Pass
3	5829.3750	51.79	20.01	31.78	54	-2.21	70.2	Vertical	AV	Pass
4	11907.0000	45.46	38.68	6.78	74	-28.54	113	Vertical	PK	Pass
4	11907.0000	38.43	38.68	-0.25	54	-15.57	113	Vertical	AV	Pass
5	14347.5000	49.25	41.05	8.2	74	-24.75	322.1	Vertical	PK	Pass
5	14347.5000	41.33	41.05	0.28	54	-12.67	322.1	Vertical	AV	Pass
6	17625.0000	51.03	43.99	7.04	74	-22.97	300.6	Vertical	PK	Pass
6	17625.0000	43.84	43.99	-0.15	54	-10.16	300.6	Vertical	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5700 MHz), ANT H



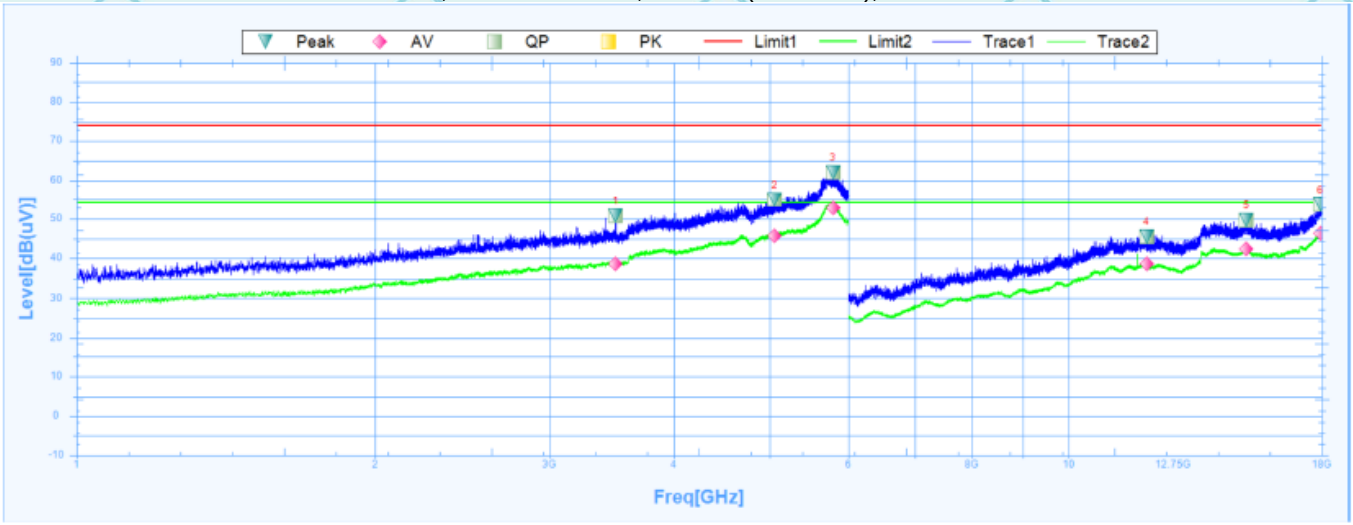
Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2975.6250	48.01	7.72	40.29	74	-25.99	359	Horizontal	PK	Pass
1	2975.6250	39.12	7.72	31.4	54	-14.88	359	Horizontal	AV	Pass
2	3498.1250	53.9	9.68	44.22	74	-20.1	83.4	Horizontal	PK	Pass
2	3498.1250	40.48	9.68	30.8	54	-13.52	83.4	Horizontal	AV	Pass
3	5922.5000	60.29	20.6	39.69	74	-13.71	131.2	Horizontal	PK	Pass
3	5922.5000	51.38	20.6	30.78	54	-2.62	131.2	Horizontal	AV	Pass
4	11745.0000	46.7	38.83	7.87	74	-27.3	310.2	Horizontal	PK	Pass
4	11745.0000	41.13	38.83	2.3	54	-12.87	310.2	Horizontal	AV	Pass
5	14154.0000	49.49	41.3	8.19	74	-24.51	134.4	Horizontal	PK	Pass
5	14154.0000	42.05	41.3	0.75	54	-11.95	134.4	Horizontal	AV	Pass
6	17511.0000	50.95	43.22	7.73	74	-23.05	132	Horizontal	PK	Pass
6	17511.0000	43.69	43.22	0.47	54	-10.31	132	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5700 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3497.5000	49.57	9.67	39.9	74	-24.43	50.1	Vertical	PK	Pass
1	3497.5000	40.37	9.67	30.7	54	-13.63	50.1	Vertical	AV	Pass
2	4513.7500	53.63	13.7	39.93	74	-20.37	256.9	Vertical	PK	Pass
2	4513.7500	45.06	13.7	31.36	54	-8.94	256.9	Vertical	AV	Pass
3	5813.1250	59.6	20.14	39.46	74	-14.4	359.5	Vertical	PK	Pass
3	5813.1250	51.23	20.14	31.09	54	-2.77	359.5	Vertical	AV	Pass
4	11745.0000	45.9	38.83	7.07	74	-28.1	22.2	Vertical	PK	Pass
4	11745.0000	40.95	38.83	2.12	54	-13.05	22.2	Vertical	AV	Pass
5	14161.5000	49.83	41.29	8.54	74	-24.17	110.5	Vertical	PK	Pass
5	14161.5000	41.58	41.29	0.29	54	-12.42	110.5	Vertical	AV	Pass
6	17445.0000	50.7	42.78	7.92	74	-23.3	190.6	Vertical	PK	Pass
6	17445.0000	43.14	42.78	0.36	54	-10.86	190.6	Vertical	AV	Pass

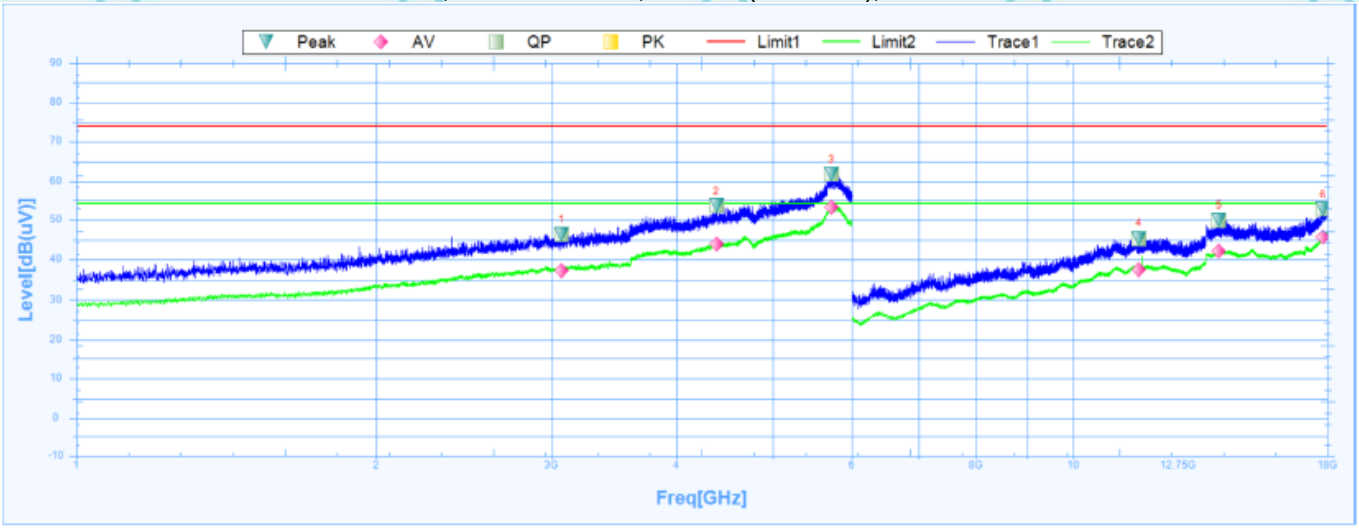
11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT H



Susputed Data List

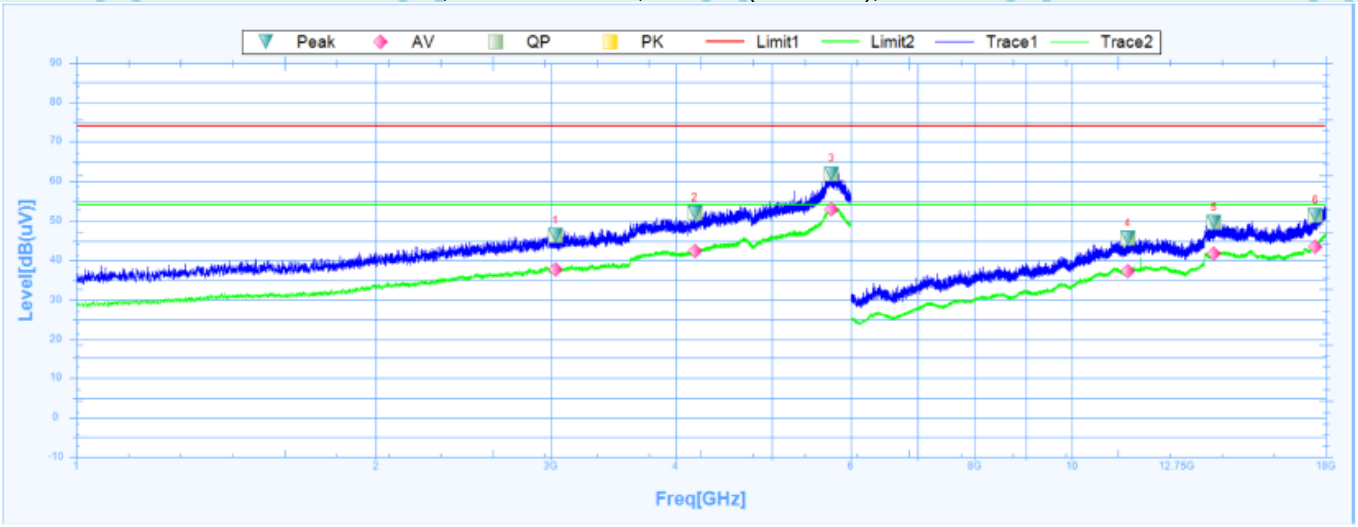
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3497.5000	50.85	9.67	41.18	74	-23.15	197	Horizontal	PK	Pass
1	3497.5000	38.6	9.67	28.93	54	-15.4	197	Horizontal	AV	Pass
2	5058.7500	55.01	16.88	38.13	74	-18.99	-0.1	Horizontal	PK	Pass
2	5058.7500	45.73	16.88	28.85	54	-8.27	-0.1	Horizontal	AV	Pass
3	5788.1250	61.96	20.41	41.55	74	-12.04	291.4	Horizontal	PK	Pass
3	5788.1250	52.71	20.41	32.3	54	-1.29	291.4	Horizontal	AV	Pass
4	11991.0000	45.55	38.61	6.94	74	-28.45	46	Horizontal	PK	Pass
4	11991.0000	38.55	38.61	-0.06	54	-15.45	46	Horizontal	AV	Pass
5	15123.0000	49.63	39.82	9.81	74	-24.37	219.3	Horizontal	PK	Pass
5	15123.0000	42.4	39.82	2.58	54	-11.6	219.3	Horizontal	AV	Pass
6	17944.5000	53.55	46.13	7.42	74	-20.45	101	Horizontal	PK	Pass
6	17944.5000	46.39	46.13	0.26	54	-7.61	101	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5745 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3068.1250	46.32	8.02	38.3	74	-27.68	136	Vertical	PK	Pass
1	3068.1250	37.39	8.02	29.37	54	-16.61	136	Vertical	AV	Pass
2	4390.0000	53.64	13.46	40.18	74	-20.36	13	Vertical	PK	Pass
2	4390.0000	43.87	13.46	30.41	54	-10.13	13	Vertical	AV	Pass
3	5725.0000	61.74	21.09	40.65	74	-12.26	359	Vertical	PK	Pass
3	5725.0000	53.23	21.09	32.14	54	-0.77	359	Vertical	AV	Pass
4	11644.5000	45.34	38.92	6.42	74	-28.66	313.7	Vertical	PK	Pass
4	11644.5000	37.56	38.92	-1.36	54	-16.44	313.7	Vertical	AV	Pass
5	14013.0000	49.84	41.48	8.36	74	-24.16	120	Vertical	PK	Pass
5	14013.0000	42.1	41.48	0.62	54	-11.9	120	Vertical	AV	Pass
6	17821.5000	52.79	45.3	7.49	74	-21.21	148.7	Vertical	PK	Pass
6	17821.5000	45.77	45.3	0.47	54	-8.23	148.7	Vertical	AV	Pass

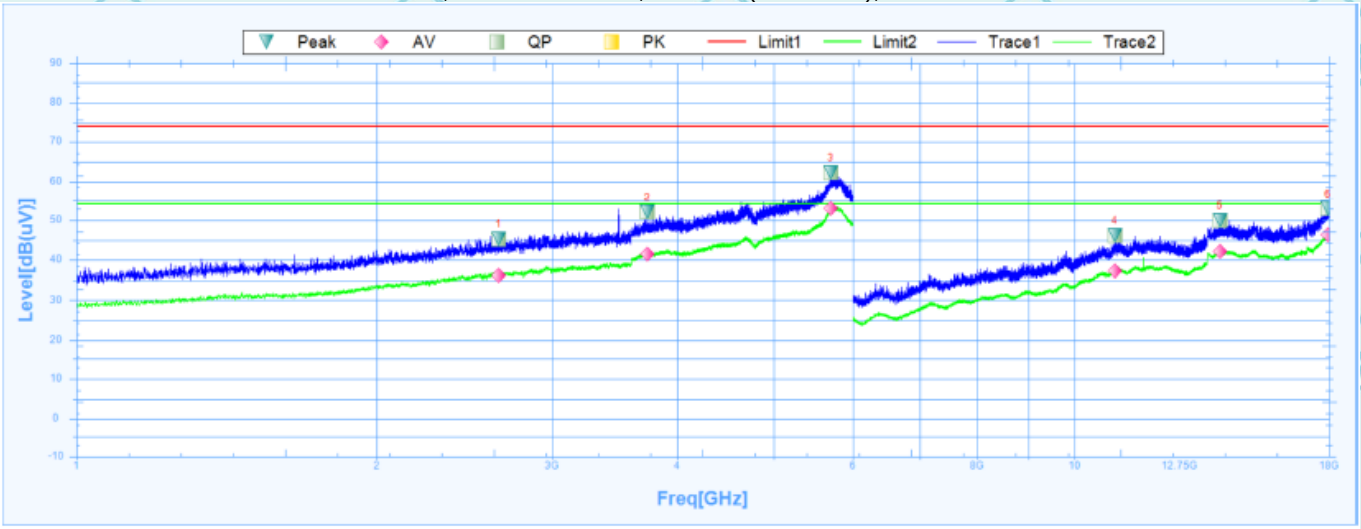
11a, 1 GHz to 18 GHz, Channel (5825 MHz), ANT H



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	3028.7500	46.36	8.24	38.12	74	-27.64	354.3	Horizontal	PK	Pass
1	3028.7500	37.69	8.24	29.45	54	-16.31	354.3	Horizontal	AV	Pass
2	4183.1250	52.04	12.42	39.62	74	-21.96	131.1	Horizontal	PK	Pass
2	4183.1250	42.28	12.42	29.86	54	-11.72	131.1	Horizontal	AV	Pass
3	5740.0000	61.9	20.93	40.97	74	-12.1	-0.1	Horizontal	PK	Pass
3	5740.0000	52.98	20.93	32.05	54	-1.02	-0.1	Horizontal	AV	Pass
4	11389.5000	45.7	39.15	6.55	74	-28.3	20.1	Horizontal	PK	Pass
4	11389.5000	37.19	39.15	-1.96	54	-16.81	20.1	Horizontal	AV	Pass
5	13902.0000	49.73	41.25	8.48	74	-24.27	360.1	Horizontal	PK	Pass
5	13902.0000	41.61	41.25	0.36	54	-12.39	360.1	Horizontal	AV	Pass
6	17580.0000	51.45	43.69	7.76	74	-22.55	248	Horizontal	PK	Pass
6	17580.0000	43.38	43.69	-0.31	54	-10.62	248	Horizontal	AV	Pass

11a, 1 GHz to 18 GHz, Channel (5825 MHz), ANT V



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2648.7500	45.28	6.12	39.16	74	-28.72	31	Vertical	PK	Pass
1	2648.7500	36.23	6.12	30.11	54	-17.77	31	Vertical	AV	Pass
2	3734.3750	52.05	10.43	41.62	74	-21.95	359.3	Vertical	PK	Pass
2	3734.3750	41.42	10.43	30.99	54	-12.58	359.3	Vertical	AV	Pass
3	5701.8750	62.27	21.12	41.15	74	-11.73	0.1	Vertical	PK	Pass
3	5701.8750	52.94	21.12	31.82	54	-1.06	0.1	Vertical	AV	Pass
4	10977.0000	46.03	39.47	6.56	74	-27.97	0.5	Vertical	PK	Pass
4	10977.0000	37.31	39.47	-2.16	54	-16.69	0.5	Vertical	AV	Pass
5	13992.0000	49.79	41.48	8.31	74	-24.21	128.4	Vertical	PK	Pass
5	13992.0000	42.11	41.48	0.63	54	-11.89	128.4	Vertical	AV	Pass
6	17950.5000	53.03	46.17	6.86	74	-20.97	0.5	Vertical	PK	Pass
6	17950.5000	46.26	46.17	0.09	54	-7.74	0.5	Vertical	AV	Pass

Note:
1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

7.3.8 RESTRICTED BANDS REQUIREMENTS

Test Result(Only recorded the worst case in the report):

Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
802.11a(6Mbps) Test channel:36							
5150	64.73	-5.24	59.49	68.23	8.74	H	PK
5150	53.82	-5.24	48.58	54	5.42	H	AV
5150	60.51	-4.87	55.64	68.23	12.59	V	PK
5150	53.26	-4.87	48.39	54	5.61	V	AV
802.11a(6Mbps) Test channel:48							
5350	61.68	-5.24	56.44	68.23	11.79	H	PK
5350	53.48	-5.24	48.24	54	5.76	H	AV
5350	62.44	-4.87	57.57	68.23	10.66	V	PK
5350	53.15	-4.87	48.28	54	5.72	V	AV
802.11a(6Mbps) Test channel: 165							
5850	64.61	-5.24	59.37	122.23	62.86	H	PK
5850	54.05	-4.87	49.18	122.23	73.05	V	PK

Note: Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Attenuation factor + Cable loss

Level (dBµV) = Reading level (dBµV) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Level (dBµV) – Limits (dBµV)

7.4 ANTENNA REQUIREMENT

Standard Applicable
If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Antenna Anti-Replacement Construction
An embedded-in antenna design is used.
Antenna Gain
The Bluetooth antenna is a Integral Antenna. it meets the standards, and the best case gain of the antenna is" ANT1:-2.61dBi, ANT2:-0.25dBi". Please refer to the attached "X6856 Internal Photo" for the antenna location

<CDD Modes >
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
For CDD transmissions, directional gain is calculated as
Directional gain = GANT + Array Gain, where Array Gain is as follows.
For power spectral density (PSD) measurements on all devices,
Array Gain = 10 log(NANT/NSS=1) dB.
For power measurements on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for NANT ⩽ 4.
Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;
The EUT supports CDD mode.
For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).
For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.
The directional gain "DG" is calculated as following table.

<CDD Modes>	Ant1 (dBi)	Ant2 (dBi)	DG for power (dBi)	DG for PSD (dBi)
5180~5825MHz	-2.61	-0.25	-0.25	1.66

Power limit reduction = Composite gain – 6dBi, (min = 0)
PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

7.5 EMISSION BANDWIDTH

7.5.1 TEST EQUIPMENT

Please refer to Section 5 this report.

7.5.2 TEST PROCEDURE

-26dB Bandwidth and 99% Occupied Bandwidth:	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Measure the maximum width of the emission that is 26 dB down from the peak 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%.
Test Equipment Setting – 26dB Bandwidth:	Test Equipment Setting – 99%% Bandwidth:
a)Attenuation: Auto b)Span Frequency: > 26dB Bandwidth c)RBW: Approximately 1% of the emission bandwidth d)VBW: VBW > RBW e)Detector: Peak f)Trace: Max Hold g)Sweep Time: Auto	a)Span: 1.5 times to 5.0 times the OBW b)RBW: 1 % to 5 % of the OBW c)VBW: ⩾ 3 x RBW d)Detector: Peak e)Trace: Max Hold
6 dB Bandwidth:	
Test Method:	a)The transmitter was radiated to the spectrum analyzer in peak hold mode. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth. c)Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)Measured the spectrum width with power higher than 6dB below carrier.
Test Equipment Setting:	
a)Attenuation: Auto b)Span Frequency: > 6dB Bandwidth c)RBW: 100kHz d)VBW: ⩾ 3 x RBW	e)Detector: Peak f)Trace: Max Hold g)Sweep Time: Auto
Maximum Conducted Output Power Measurement:	
Test Method:	a)The transmitter output (antenna port) was connected to the power meter. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter). c)Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band. d)When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.
Test Equipment Setting: Detector - Average	
Power Spectral Density:	
Test Method:	a)The transmitter output (antenna port) was connected RF switch to the spectrum analyzer. b)Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD). c)Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs. d)When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way. e)For 5.725~5.85 GHz, the measured result of PSD level must add 10log(500kHz/RBW)

	and the final result should ⩽ 30 dBm.
Test Equipment Setting:	
a)Attenuation: Auto b)Span Frequency: Encompass the entire emissions bandwidth (EBW) of the signal c)RBW: 1000 kHz d)VBW: 3000 kHz	e)Detector: RMS f)Trace: AVERAGE g)Sweep Time: Auto h)Trace Average: 100 times
Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.	

Frequency Stability Measurement:	
Test Method:	a)The transmitter output (antenna port) was connected to the spectrum analyzer. b)EUT have transmitted absence of modulation signal and fixed channelize. c)Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. d)Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. e)fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 106 ppm and the limit is less than ±20ppm (IEEE 802.11nspecification). f)The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value g)Extreme temperature is 0°C~40°C
Test Equipment Setting:	
a)Attenuation: Auto b)Span Frequency: Entire absence of modulation emissions bandwidth c)RBW: 10 kHz d)VBW: 10 kHz	e)Sweep Time: Auto

7.5.3 CONFIGURATION OF THE EUT

Same as section 3.4 of this report

7.5.4 EUT OPERATING CONDITION

Same as section 3.5 of this report.

7.5.5 LIMIT

-26dB Bandwidth and 99% Occupied Bandwidth:	
Limit:	No restriction limits.
-6 dB Bandwidth:	
Limit:	For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.
Test Equipment Setting:	
a)Attenuation: Auto b)Span Frequency: > 6dB Bandwidth c)RBW: 100kHz d)VBW: ≥ 3 x RBW	e)Detector: Peak f)Trace: Max Hold g)Sweep Time: Auto
Maximum Conducted Output Power Measurement:	
☒5.15~5.25 GHz	
☐Limit of Outdoor access point:	☐Limit of Indoor access point:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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).	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.
☐Limit of Fixed point-to-point access points:	☒Limit of Mobile and portable client devices:
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). 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.	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. 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.
☒5.25-5.35 GHz & ☒5.470-5.725 GHz	
The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.	
☒5.725~5.85 GHz	
The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.	
Power Spectral Density	
☒5.15~5.25 GHz	
☐Limit of Outdoor access point: 17 dBm/MHz	☐Limit of Indoor access point: 17 dBm/MHz
☐Limit of Fixed point-to-point access points: 17 dBm/MHz	☒Limit of Mobile and portable client devices: 11 dBm/MHz
☐5.25-5.35 GHz	11 dBm/MHz
☐5.470-5.725 GHz	11 dBm/MHz
☒5.725~5.85 GHz	30 dBm/500kHz
Frequency Stability Measurement:	
Limit:	In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE

	802.11n specification).

7.5.6 TEST RESULT

-26dB Bandwidth and 99% Occupied Bandwidth

Product	: EUT-Sample	Test Mode	: See section 3.4
Test Item	: -26dB Bandwidth/-6dB Bandwidth and 99% Occupied Bandwidth	Temperature	: 25 ℃
Test Voltage	: DC 3.86V	Humidity	: 56%RH
Test Result	: PASS		

-26Db&99% Bandwidth

Mode	Frequency (MHz)	-26 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Verdict
a	5180	20.98	16.507	Pass
a	5240	19.99	16.399	Pass
a	5260	19.81	16.424	Pass
a	5320	25.77	16.530	Pass
a	5500	24.50	16.545	Pass
a	5700	21.08	16.466	Pass
n20	5180	24.91	17.657	Pass
n20	5240	20.79	17.554	Pass
n20	5260	20.65	17.586	Pass
n20	5320	25.67	17.704	Pass
n20	5500	25.72	17.695	Pass
n20	5700	24.76	17.676	Pass
n40	5190	48.05	36.186	Pass
n40	5230	39.92	36.062	Pass
n40	5270	39.83	36.027	Pass
n40	5310	53.66	36.216	Pass
n40	5510	55.77	36.163	Pass
n40	5670	58.56	36.291	Pass
ac20	5180	23.97	17.660	Pass
ac20	5240	20.98	17.586	Pass
ac20	5260	20.79	17.584	Pass
ac20	5320	26.98	17.705	Pass
ac20	5500	24.45	17.702	Pass
ac20	5700	22.62	17.686	Pass
ac40	5190	50.78	36.111	Pass
ac40	5230	39.99	35.983	Pass
ac40	5270	40.39	36.055	Pass
ac40	5310	52.59	36.165	Pass
ac40	5510	50.77	36.031	Pass
ac40	5670	57.87	36.303	Pass
ac80	5210	101.8	75.753	Pass
ac80	5290	103.8	75.669	Pass
ac80	5530	105.4	75.746	Pass
ac80	5610	80.11	75.708	Pass
ax20	5180	26.12	18.905	Pass

ax20	5240	21.16	18.850	Pass
ax20	5260	20.86	18.859	Pass
ax20	5320	24.58	18.903	Pass
ax20	5500	23.75	18.894	Pass
ax20	5700	23.85	18.882	Pass
ax40	5190	48.16	37.633	Pass
ax40	5230	39.22	37.609	Pass
ax40	5270	39.39	37.639	Pass
ax40	5310	47.82	37.741	Pass
ax40	5510	52.70	37.628	Pass
ax40	5670	52.73	37.599	Pass
ax80	5210	90.63	77.463	Pass
ax80	5290	80.66	77.374	Pass
ax80	5530	87.37	77.274	Pass
ax80	5610	79.83	77.370	Pass
ax160	5250	165.4	156.15	Pass
ax160	5570	161.4	155.86	Pass

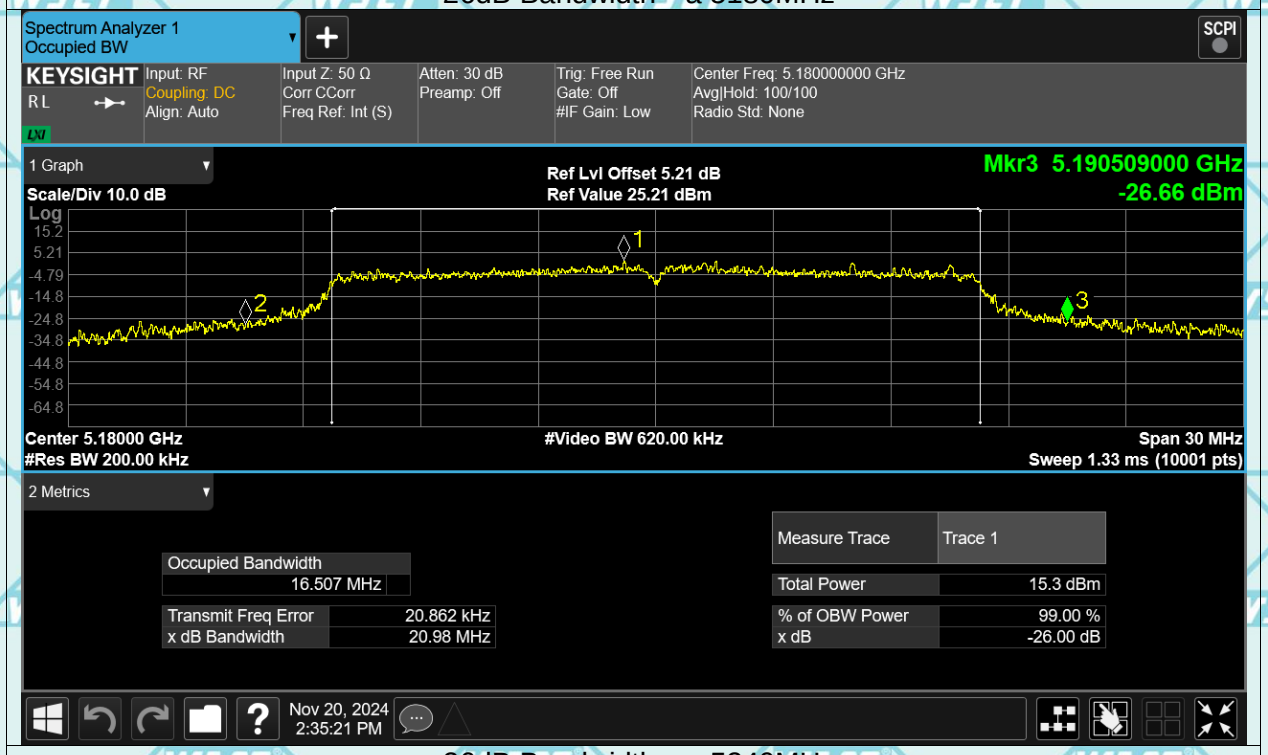
-6dB&99% Bandwidth

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	99%dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	15.05	16.414	0.5	Pass
a	5825	13.53	16.341	0.5	Pass
n20	5745	14.05	17.614	0.5	Pass
n20	5825	16.17	17.563	0.5	Pass
n40	5755	35.04	36.051	0.5	Pass
n40	5795	34.98	35.986	0.5	Pass
ac20	5745	16.91	17.599	0.5	Pass
ac20	5825	15.04	17.559	0.5	Pass
ac40	5755	32.63	36.077	0.5	Pass
ac40	5795	35.05	35.974	0.5	Pass
ac80	5775	75.66	75.594	0.5	Pass
ax20	5745	16.55	18.890	0.5	Pass
ax20	5825	17.13	18.829	0.5	Pass
ax40	5755	35.89	37.573	0.5	Pass
ax40	5795	36.95	37.535	0.5	Pass
ax80	5775	76.95	77.246	0.5	Pass

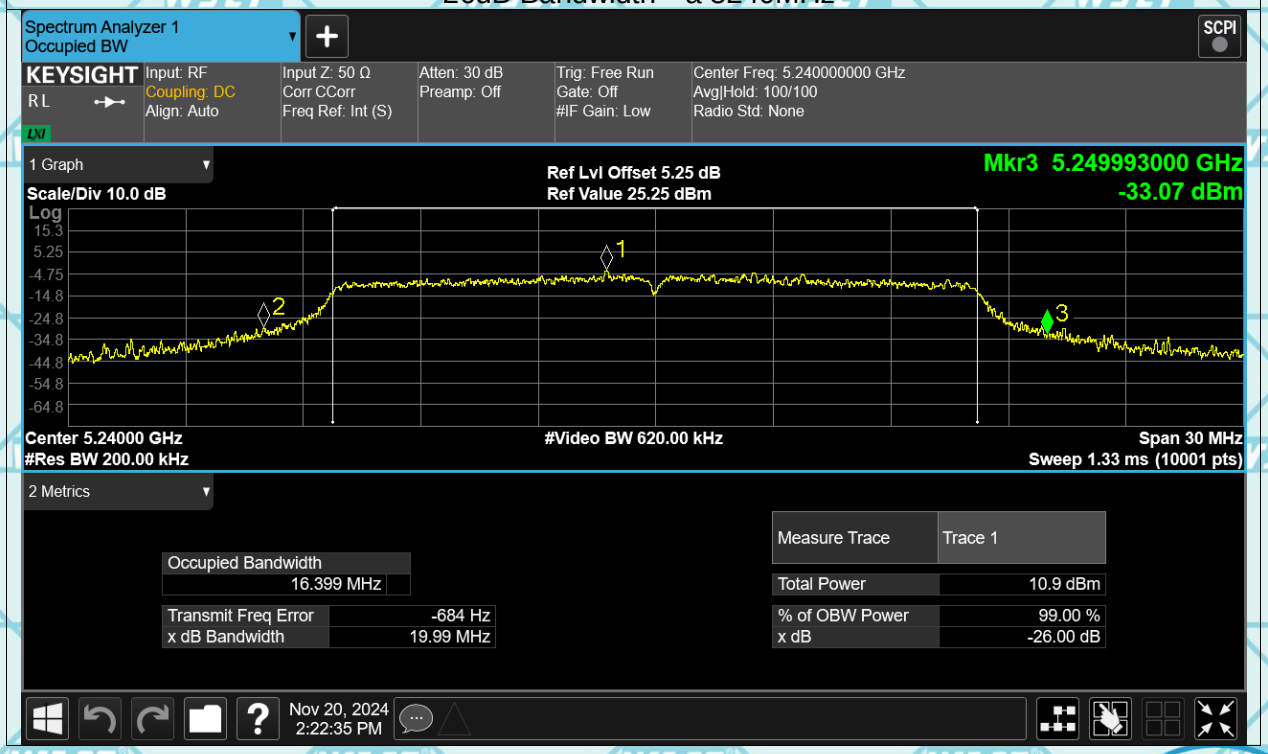
-26Db&99% Bandwidth

Test Graphs

-26dB Bandwidth a 5180MHz

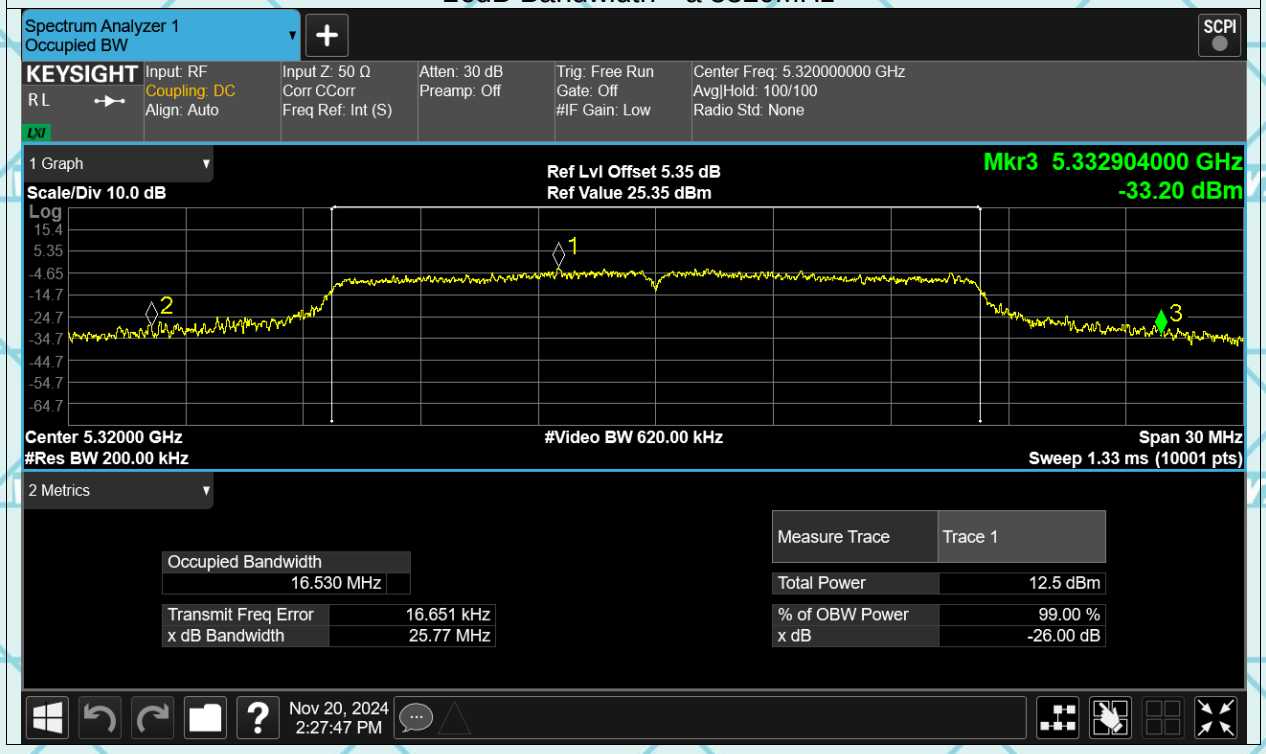


-26dB Bandwidth a 5240MHz

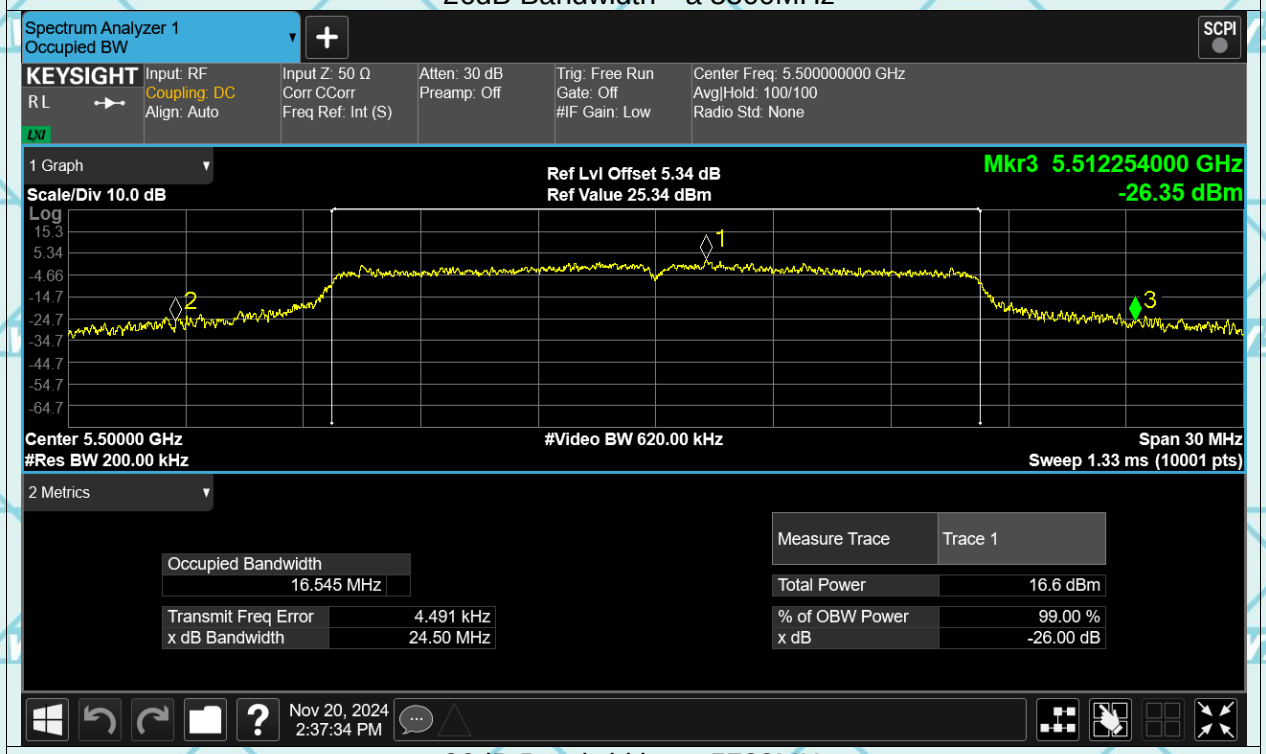


-26dB Bandwidth a 5260MHz

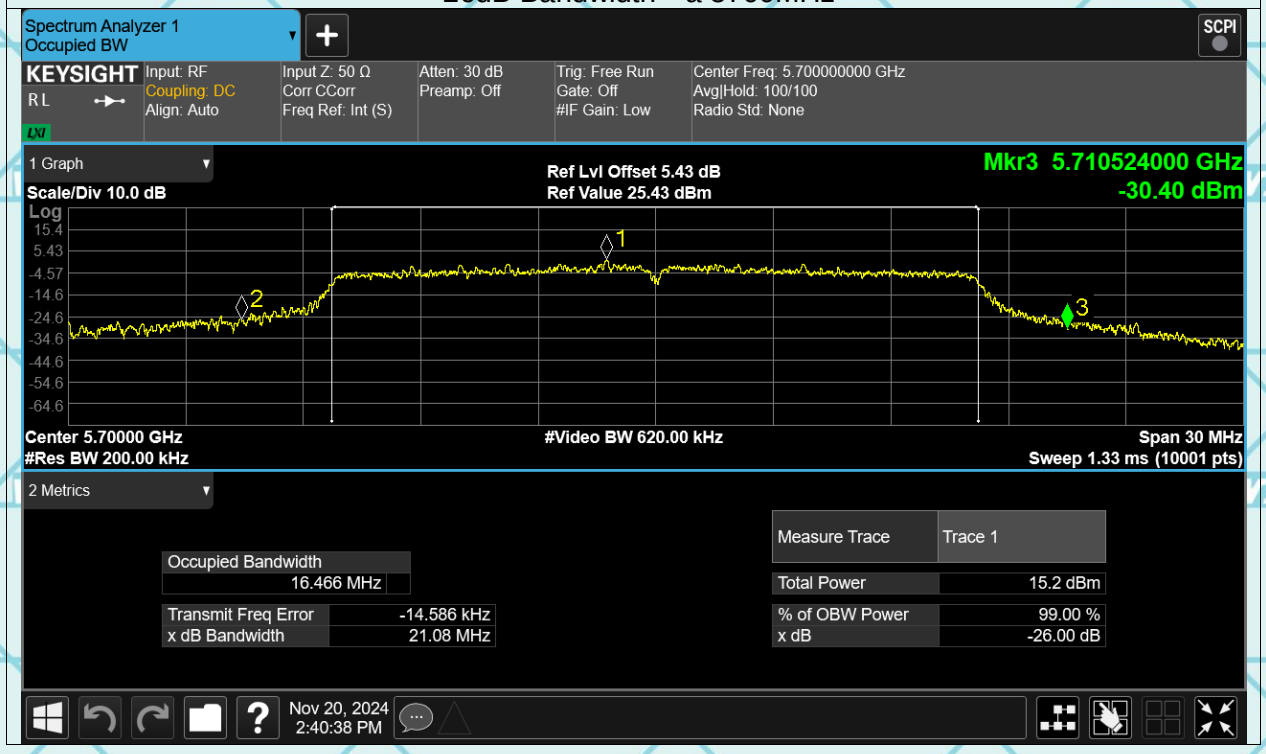
-26dB Bandwidth a 5320MHz



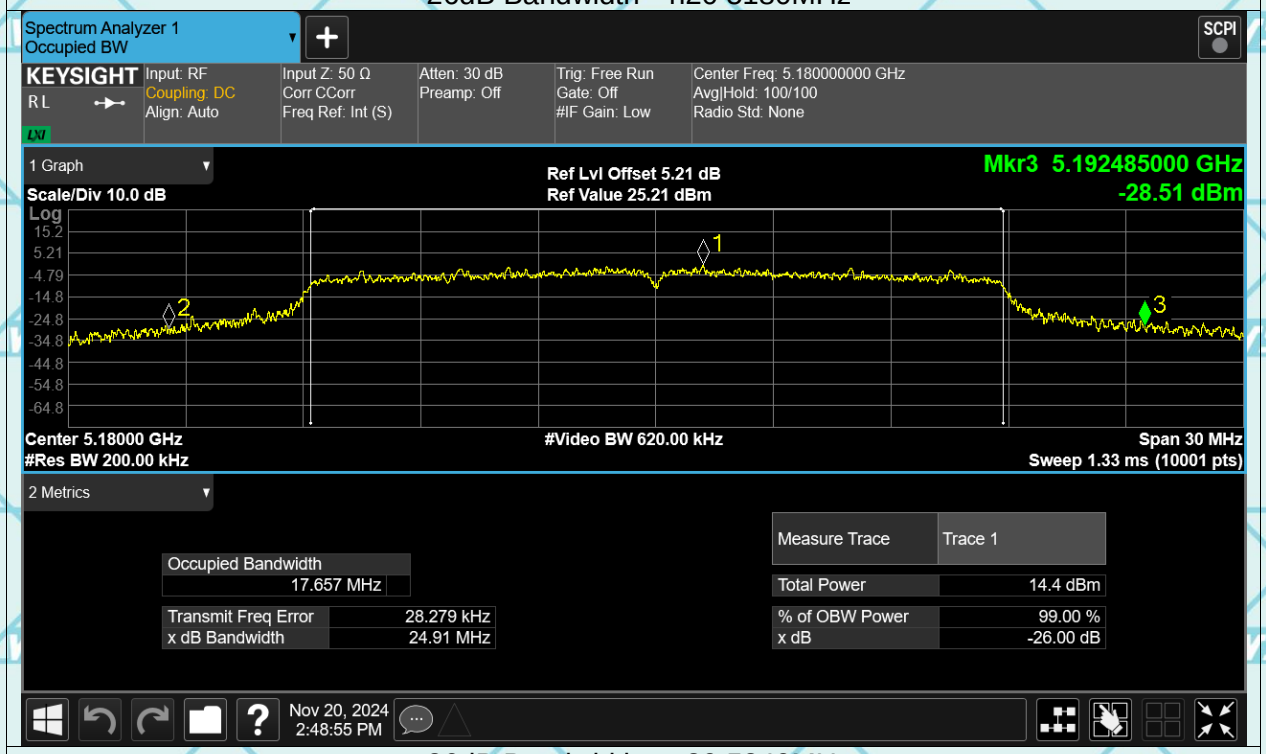
-26dB Bandwidth a 5500MHz



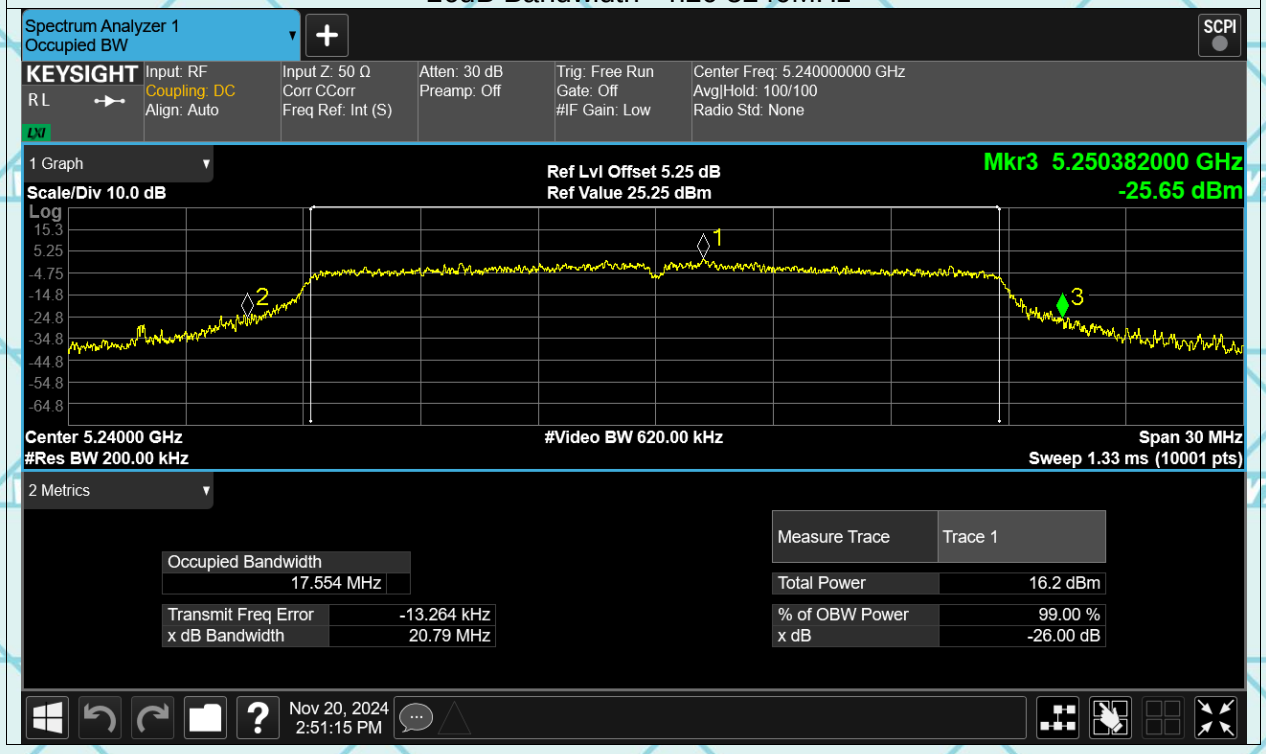
-26dB Bandwidth a 5700MHz



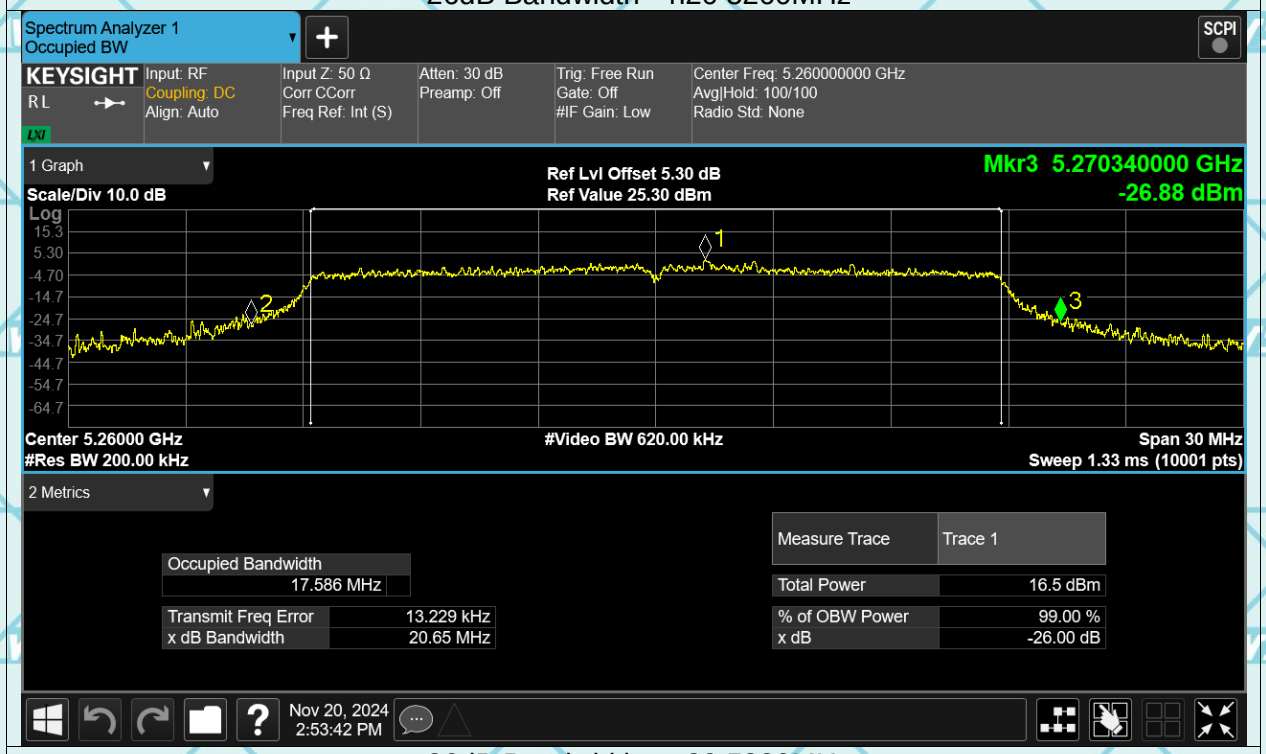
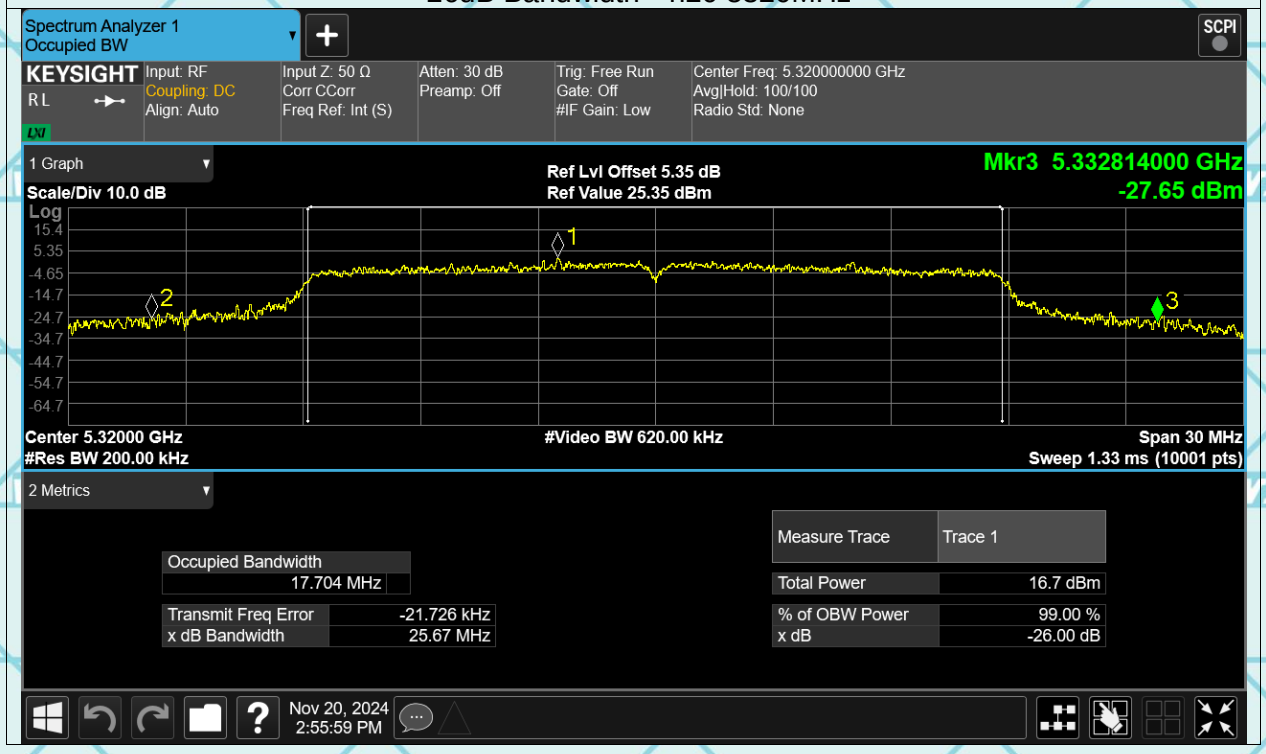
-26dB Bandwidth n20 5180MHz



-26dB Bandwidth n20 5240MHz



-26dB Bandwidth n20 5260MHz



-26dB Bandwidth n20 5320MHz