

FCC Test Report

Report No.: AGC01110200514FE02

FCC ID : 2A0KB-A3919LT
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Soundcore Life P2, Soundcore Life Note
BRAND NAME : Soundcore
MODEL NAME : A3919LT, A3908LT
APPLICANT : Anker Innovations Limited
DATE OF ISSUE : Jun. 04, 2020
STANDARD(S) : FCC Part 15.247
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 04, 2020	Valid	Initial Release



TABLE OF CONTENTS

1. VERIFICATION OF COMPLIANCE.....	5
2. GENERAL INFORMATION	6
2.1. PRODUCT DESCRIPTION.....	6
2.2. TABLE OF CARRIER FREQUENCIES	6
2.3. RELATED SUBMITTAL(S)/GRANT(S).....	7
2.4. TEST METHODOLOGY	7
2.5. SPECIAL ACCESSORIES	7
2.6. EQUIPMENT MODIFICATIONS	7
3. MEASUREMENT UNCERTAINTY	8
4. DESCRIPTION OF TEST MODES	9
5. SYSTEM TEST CONFIGURATION	10
5.1 CONFIGURATION OF TESTED SYSTEM	10
5.2. EQUIPMENT USED IN TESTED SYSTEM	10
5.3. SUMMARY OF TEST RESULTS	10
6. TEST FACILITY	11
7. PEAK OUTPUT POWER.....	12
7.1. MEASUREMENT PROCEDURE	12
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	12
7.3. LIMITS AND MEASUREMENT RESULT	13
8. 6 DB BANDWIDTH.....	15
8.1. MEASUREMENT PROCEDURE	15
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	15
8.3. LIMITS AND MEASUREMENT RESULTS	15
9. CONDUCTED SPURIOUS EMISSION.....	17
9.1. MEASUREMENT PROCEDURE	17
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	17
9.3. MEASUREMENT EQUIPMENT USED.....	17
9.4. LIMITS AND MEASUREMENT RESULT	17
10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY	22



10.1. MEASUREMENT PROCEDURE	22
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	22
10.3. MEASUREMENT EQUIPMENT USED	22
10.4. LIMITS AND MEASUREMENT RESULT	22
11. RADIATED EMISSION	24
11.1. MEASUREMENT PROCEDURE	24
11.2. TEST SETUP	25
11.3. LIMITS AND MEASUREMENT RESULT	26
11.4. TEST RESULT	26
12. FCC LINE CONDUCTED EMISSION TEST	36
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST	36
12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	36
12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	37
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	37
12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	37
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	38
APPENDIX B: PHOTOGRAPHS OF EUT	38



1. VERIFICATION OF COMPLIANCE

Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Factory	Cosonic Intelligent Technologies Co., Ltd.
Address	No.06, Ximiaobianwang Section, Dongyuan Avenue, Shipai Town, Dongguan City, Guangdong Province, P.R. China
Product Designation	Soundcore Life P2, Soundcore Life Note
Brand Name	Soundcore
Test Model	A3919LT, A3908LT
Model Difference	All the same except for the model name
Date of test	May 12, 2020 to Jun. 04, 2020
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BLE/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

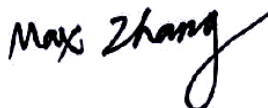
Prepared By



John Zeng
(Project Engineer)

Jun. 04, 2020

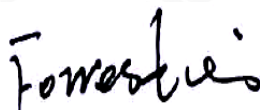
Reviewed By



Max Zhang
(Reviewer)

Jun. 04, 2020

Approved By



Forrest Lei
(Authorized Officer)

Jun. 04, 2020



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as a “Soundcore Life P2, Soundcore Life Note”. It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402GHz to 2.480GHz
RF Output Power	6.666dBm(Max)
Bluetooth Version	V5.0
Modulation	BR ☒ GFSK, EDR ☒ π /4-DQPSK, ☒ 8DPSK BLE ☒ GFSK 1Mbps ☐ GFSK 2Mbps
Number of Channels	40 Channel
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	1.72dBi
Hardware Version	A3919S_L_A
Software Version	V1.69
Power Supply	DC 3.7V by battery

2.2.TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ



2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: 2AOKB-A3919LT** filing to comply with the FCC Part 15.247 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5. SPECIAL ACCESSORIES

Refer to section 2.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, $U_c = \pm 3.1$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 4.0$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6$ dB
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth: $U_c = \pm 2$ %

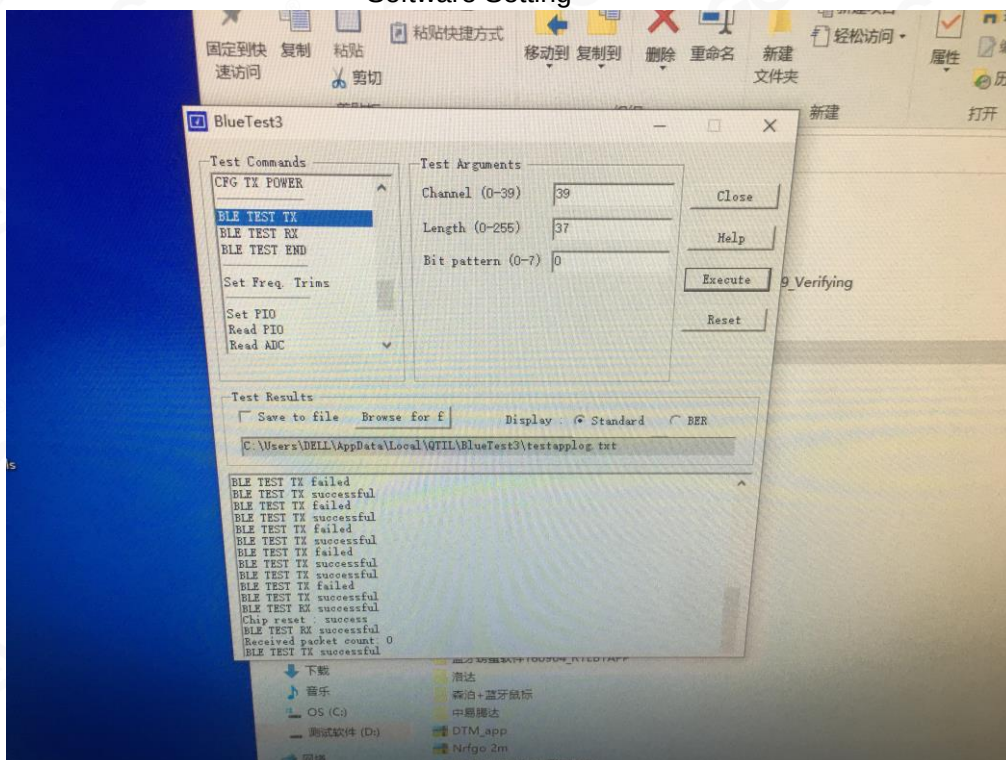


4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX

Note: 1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

Software Setting



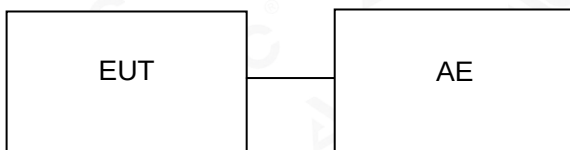
5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Soundcore Life P2, Soundcore Life Note	A3919LT, A3908LT	2AOKB-A3919LT	EUT
2	Control Box	TRBI200	--	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	N/A

Note: The EUT is powered by battery.



6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00154520	Oct. 26, 2019	Oct. 25, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



7. PEAK OUTPUT POWER

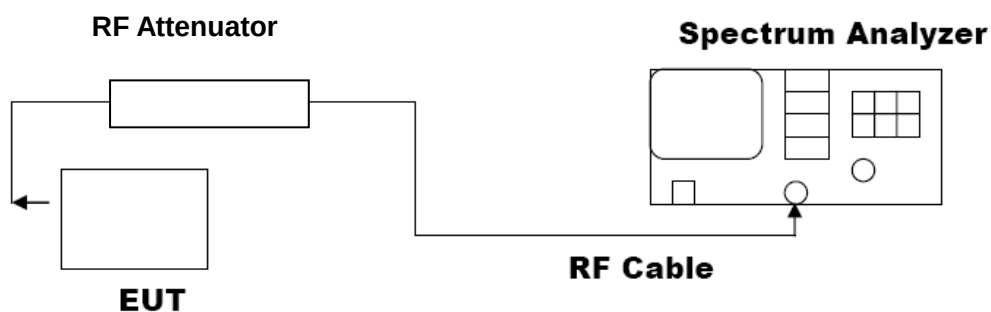
7.1. MEASUREMENT PROCEDURE

For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. $RBW \geq DTS \text{ bandwidth}$
3. $VBW \geq 3 * RBW$.
4. $SPAN \geq VBW$.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

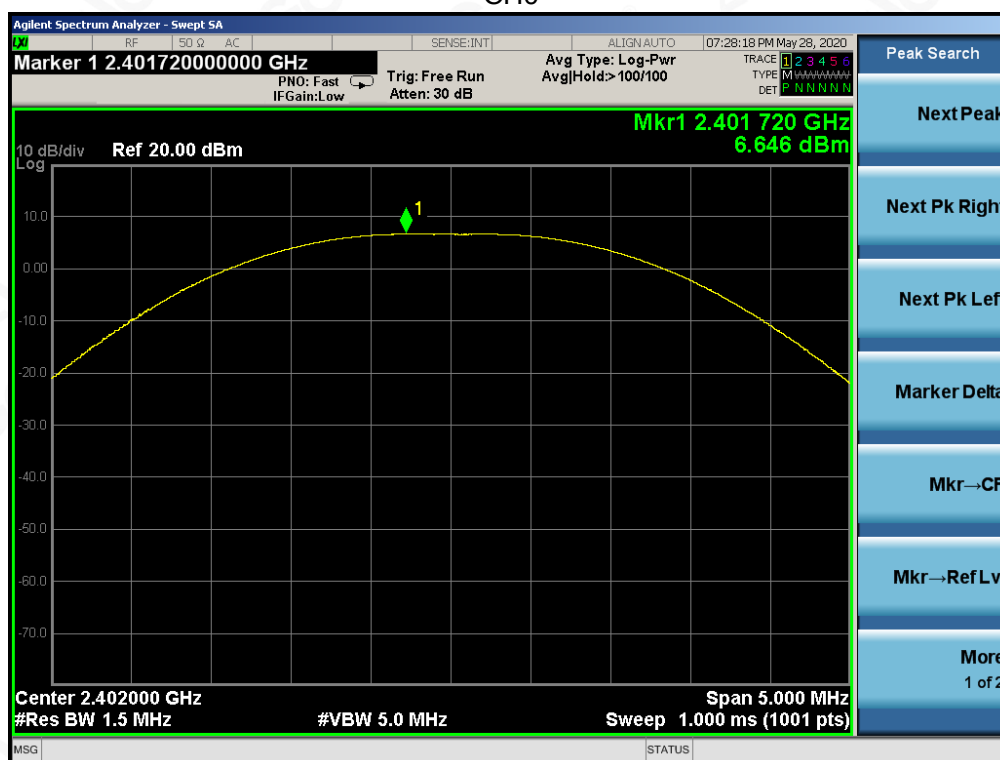
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.646	30	Pass
2.440	6.498	30	Pass
2.480	6.666	30	Pass

CH0



Agilent Spectrum Analyzer - Swept SA

Marker 1 2.439695000000 GHz

PNO: Fast
IF Gain: Low

Trig: Free Run
Atten: 30 dB

Avg Type: Log-Pwr
Avg Hold: >100/100

07:28:09 PM May 28, 2020

TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr → CF

Mkr → Ref Lvl

More

1 of 2

The screenshot displays a spectrum analyzer interface. The main plot area shows a yellow curve representing the signal spectrum. A peak is marked with a yellow diamond and labeled '1'. The peak's frequency is 2.439695 GHz and its power is 6.498 dBm. The plot has a logarithmic scale (Log) and a reference level of 20.00 dBm. The center frequency is 2.440000 GHz, the resolution bandwidth (RBW) is 1.5 MHz, and the video bandwidth (VBW) is 5.0 MHz. The span is 5.000 MHz and the sweep time is 1.000 ms (1001 pts). The interface includes various control buttons and status indicators on the right side.

10 dB/div
Log

Ref 20.00 dBm

Mkr1 2.439 695 GHz
6.498 dBm

Center 2.440000 GHz
#Res BW 1.5 MHz

#VBW 5.0 MHz

Span 5.000 MHz
Sweep 1.000 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA

Marker 1 2.480015000000 GHz

PNO: Fast IFGain: Low Trig: Free Run Atten: 30 dB

Avg Type: Log-Pwr AvgHld: >100/100

TRACE 1 2 3 4 5 6 TYPE M P N N N N N DET

07:27:50 PM May 28, 2020

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr→CF

Mkr→Ref Lvl

More

1 of 2

The image shows a spectrum analyzer display with a black background and a yellow grid. A yellow curve represents the signal spectrum, peaking at 2.480015 GHz. A yellow diamond marker labeled '1' is placed on the peak. The y-axis is labeled '10 dB/div Log' and ranges from -70.0 to 10.0. The x-axis is labeled 'Center 2.480000 GHz' and 'Span 5.000 MHz'. The peak power is indicated as '6.666 dBm'. The display also shows various settings like 'PNO: Fast', 'IFGain: Low', 'Trig: Free Run', 'Atten: 30 dB', 'Avg Type: Log-Pwr', and 'AvgHld: >100/100'. On the right side, there is a 'Peak Search' menu with options like 'Next Peak', 'Next Pk Right', 'Next Pk Left', 'Marker Delta', 'Mkr→CF', 'Mkr→Ref Lvl', and 'More'.

10 dB/div Log

Ref 20.00 dBm

Mkr1 2.480 015 GHz
6.666 dBm

Center 2.480000 GHz

#Res BW 1.5 MHz

#VBW 5.0 MHz

Span 5.000 MHz

Sweep 1.000 ms (1001 pts)



8. 6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

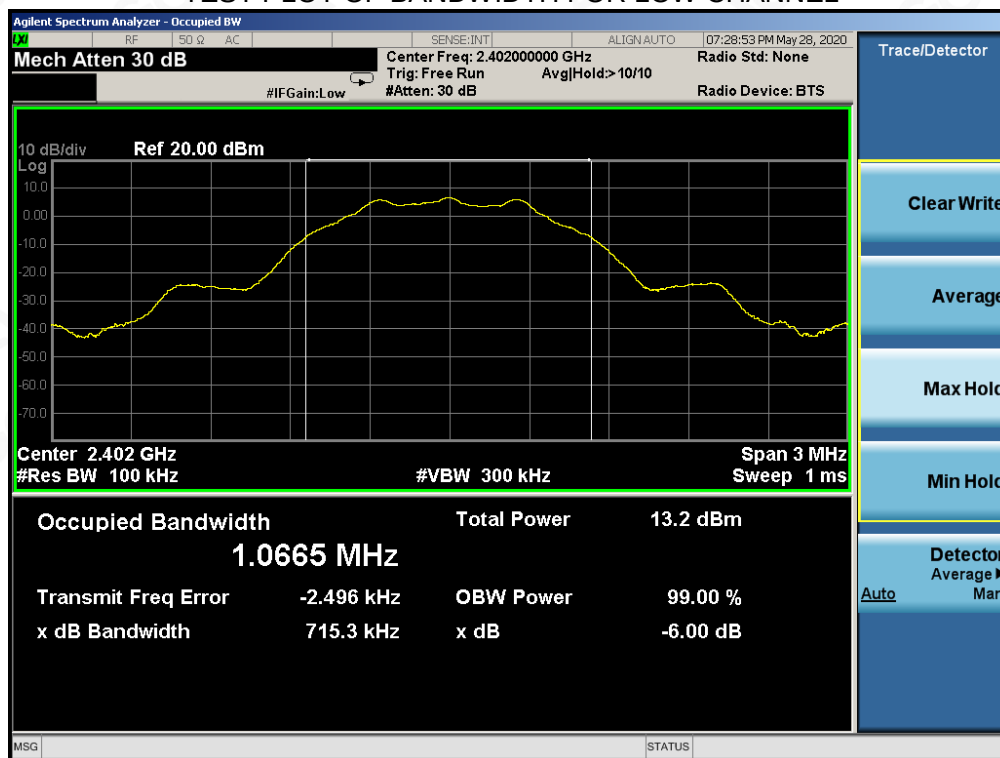
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

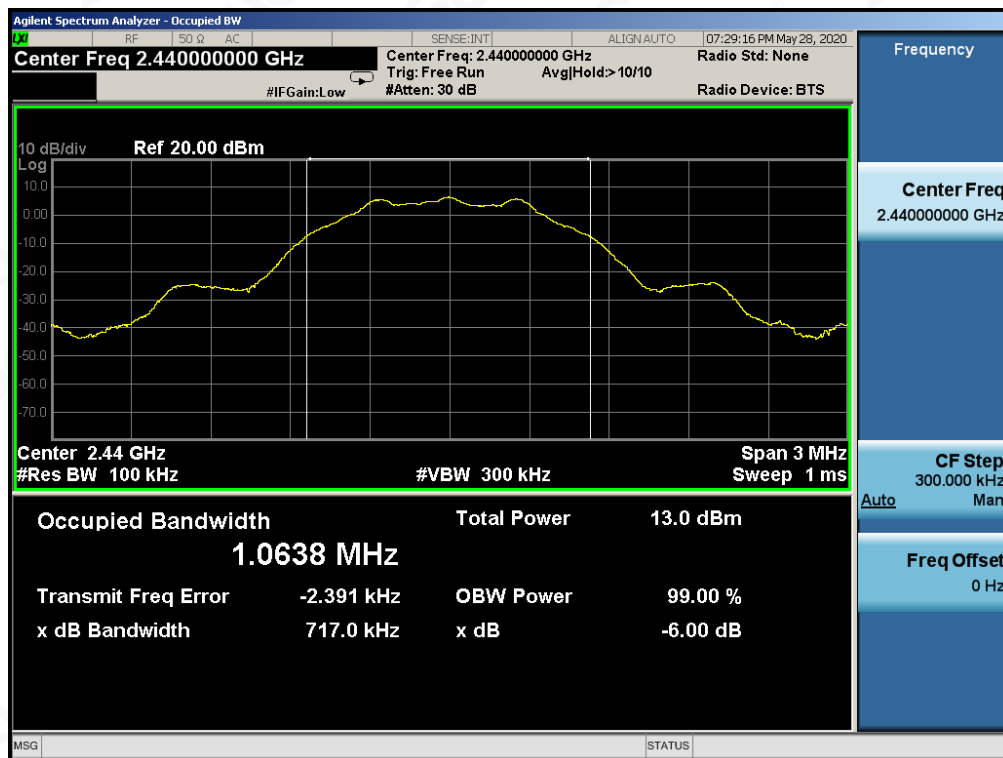
8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT			
Applicable Limits	Applicable Limits		
	Test Data (kHz)		Criteria
>500KHZ	Low Channel	715.3	PASS
	Middle Channel	717.0	PASS
	High Channel	709.2	PASS

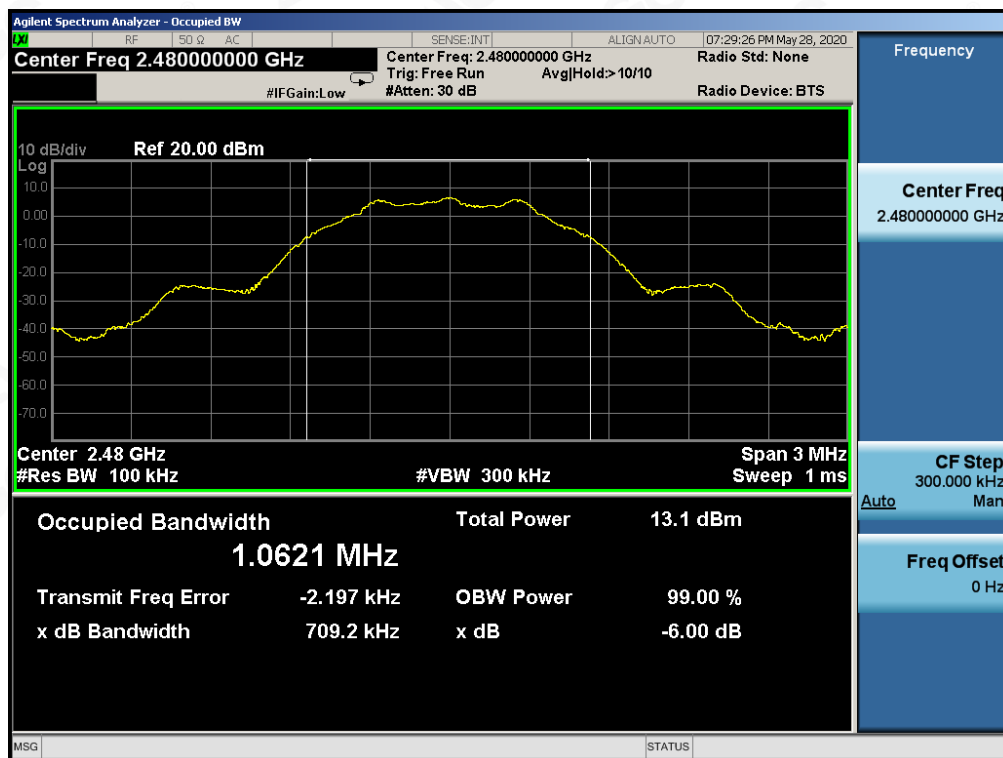
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

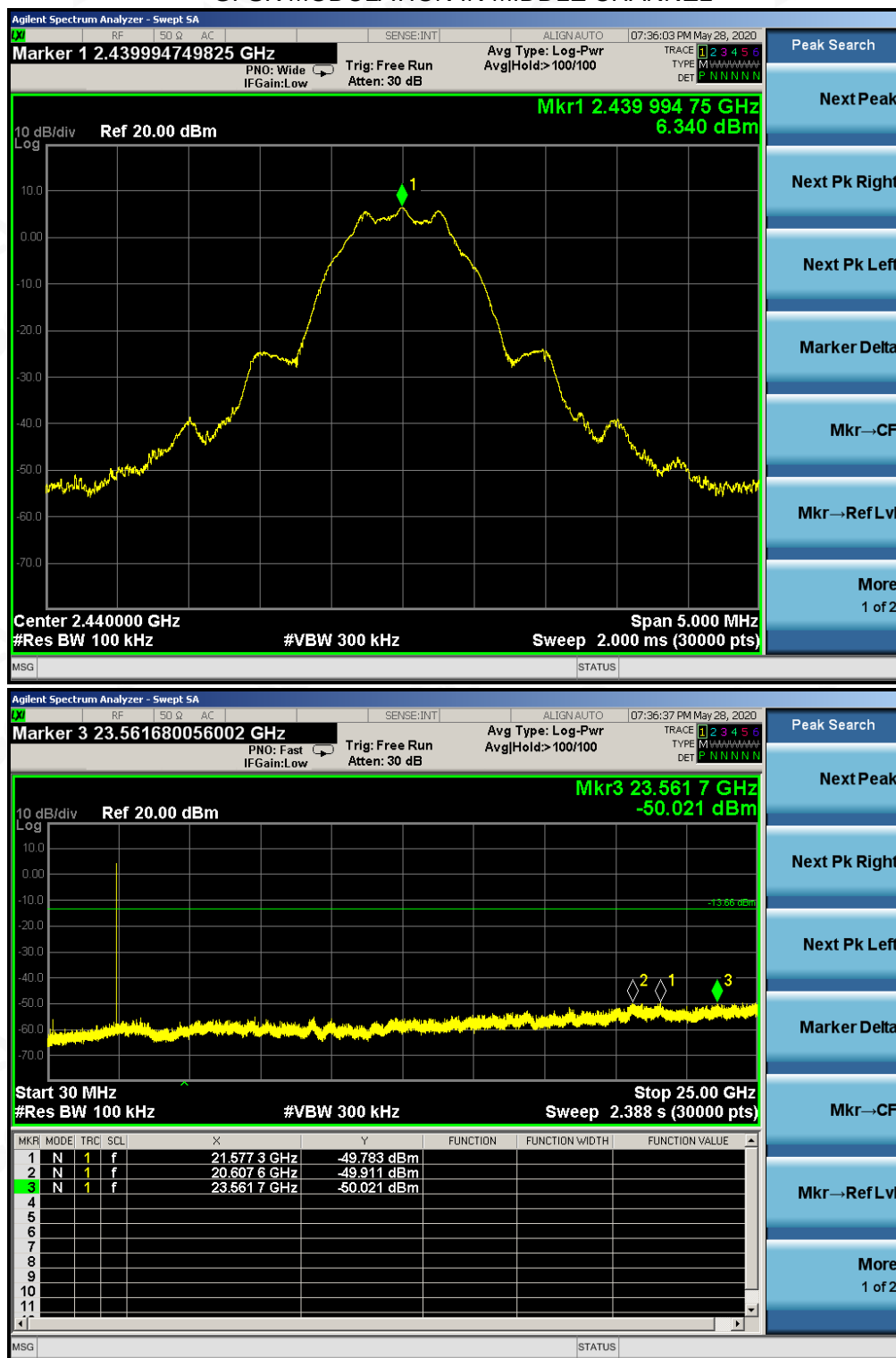
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS PASS

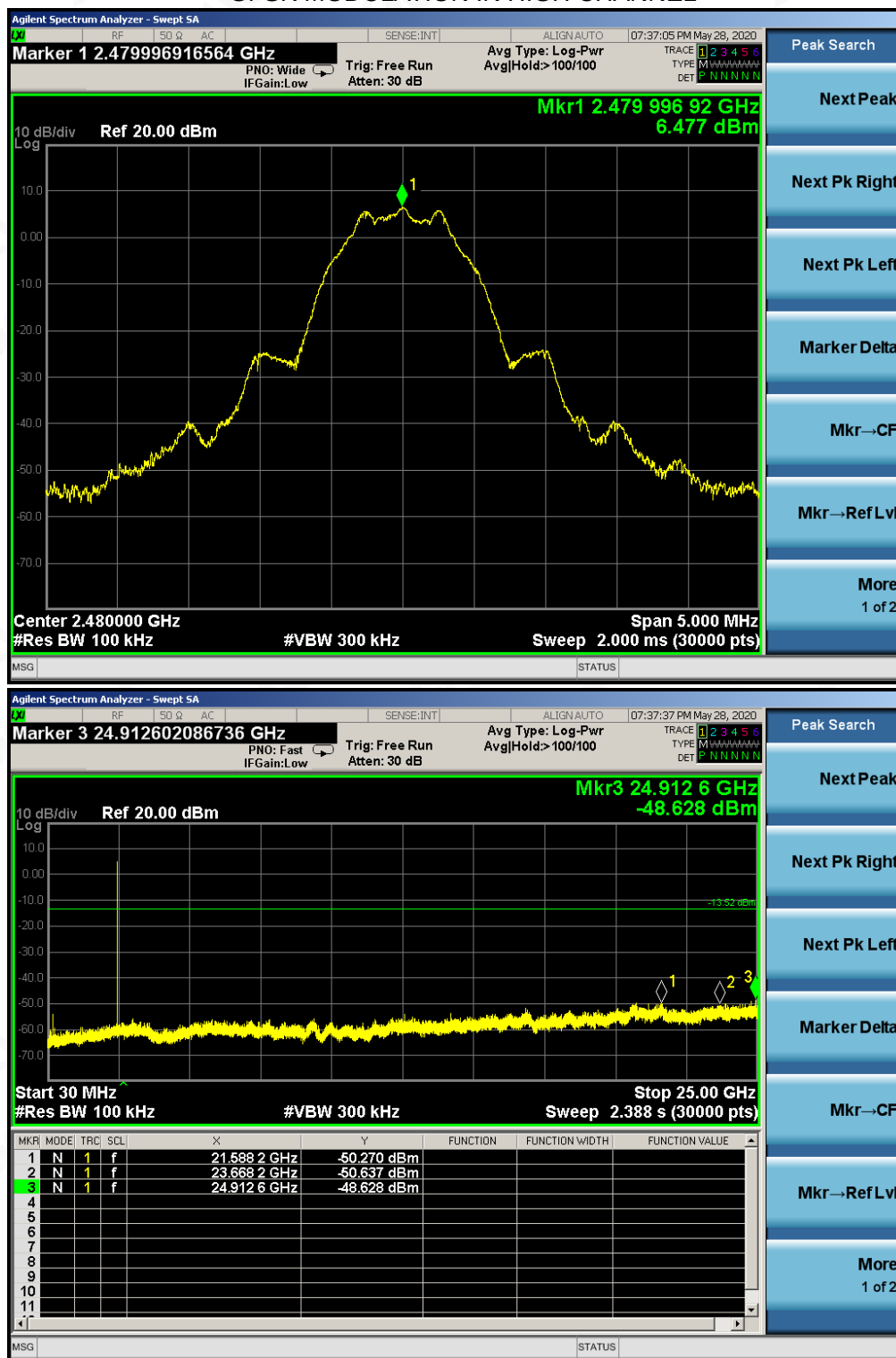


[illegible]

GFSK MODULATION IN MIDDLE CHANNEL



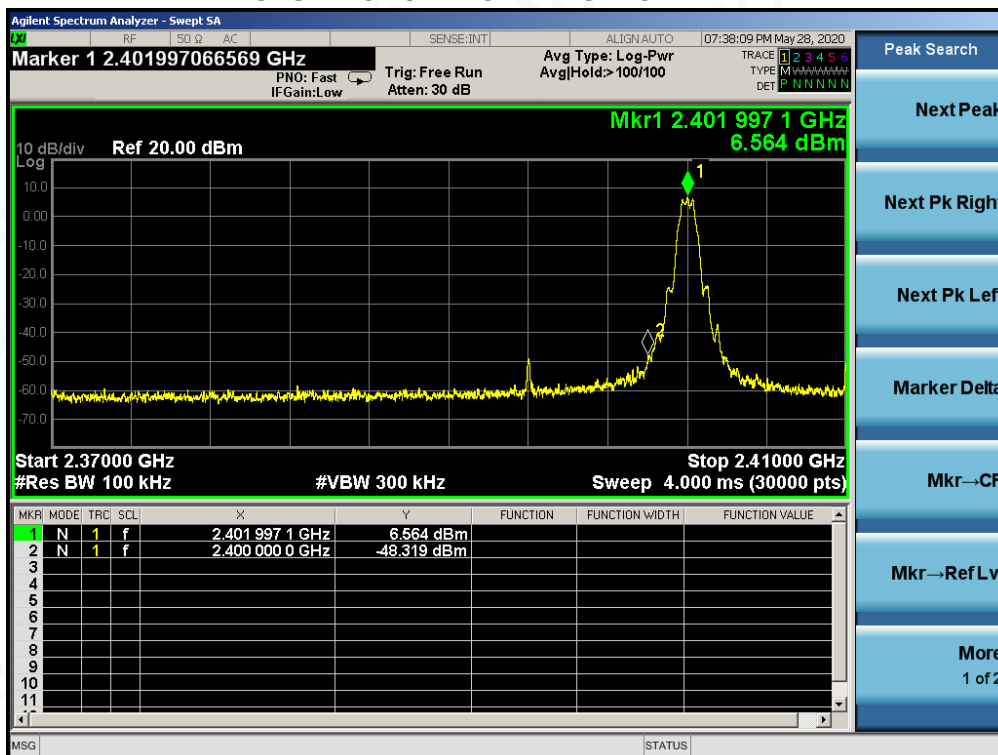
GFSK MODULATION IN HIGH CHANNEL



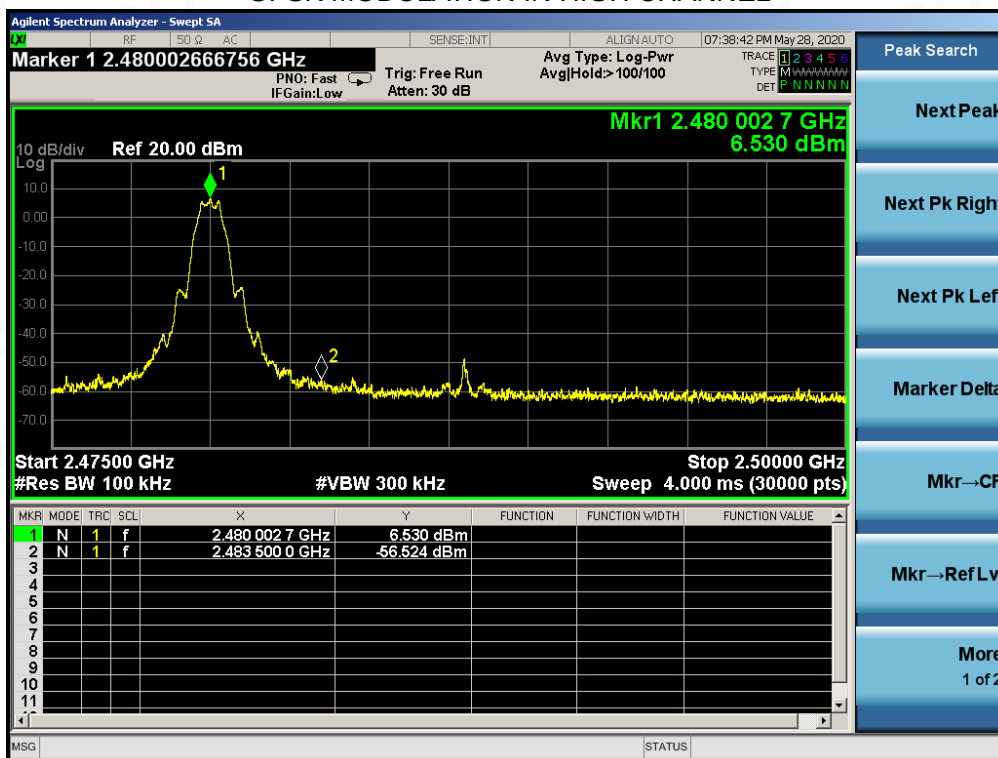
Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL



GFSK MODULATION IN HIGH CHANNEL



10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1. MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

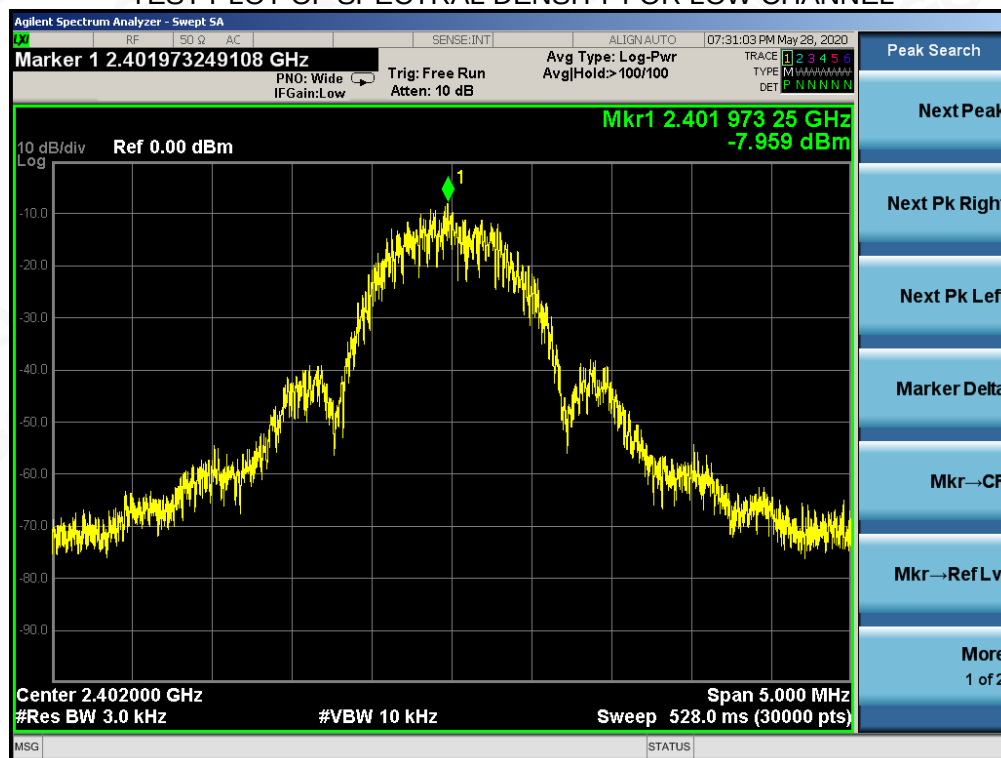
10.3. MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4. LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-7.959	8	Pass
Middle Channel	-7.919	8	Pass
High Channel	-8.016	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



Agilent Spectrum Analyzer - Swept SA

Marker 1 2.439972249075 GHz

PNO: Wide IF Gain: Low Trig: Free Run Atten: 10 dB

Avg Type: Log-Pwr Avg Hold: >100/100

07:32:28 PM May 28, 2020

TRACE 1 2 3 4 5 6 TYPE M P N N N N N DET

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr → CF

Mkr → Ref Lvl

More

1 of 2

10 dB/div Log

Ref 0.00 dBm

Mkr1 2.439 972 25 GHz
-7.919 dBm

Center 2.440000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Span 5.000 MHz

Sweep 528.0 ms (30000 pts)

MSG STATUS

Agilent Spectrum Analyzer - Swept SA

RF 50 Ω AC SENSE:INT ALIGN:AUTO 07:33:41 PM May 28, 2020

Marker 1 2.479972249075 GHz

PNO: Wide IF Gain: Low Trig: Free Run Avg Type: Log-Pwr Avg Hold: >100/100

TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N

Peak Search

Next Peak

Next Pk Right

Next Pk Left

Marker Delta

Mkr $\rightarrow$ CR

Mkr $\rightarrow$ Ref Lvl

More

1 of 2

10 dB/div Log

Ref 0.00 dBm

Mkr1 2.479 972 25 GHz
-8.016 dBm

Center 2.480000 GHz

#Res BW 3.0 kHz

#VBW 10 kHz

Span 5.000 MHz

Sweep 528.0 ms (30000 pts)

MSG STATUS



11. RADIATED EMISSION

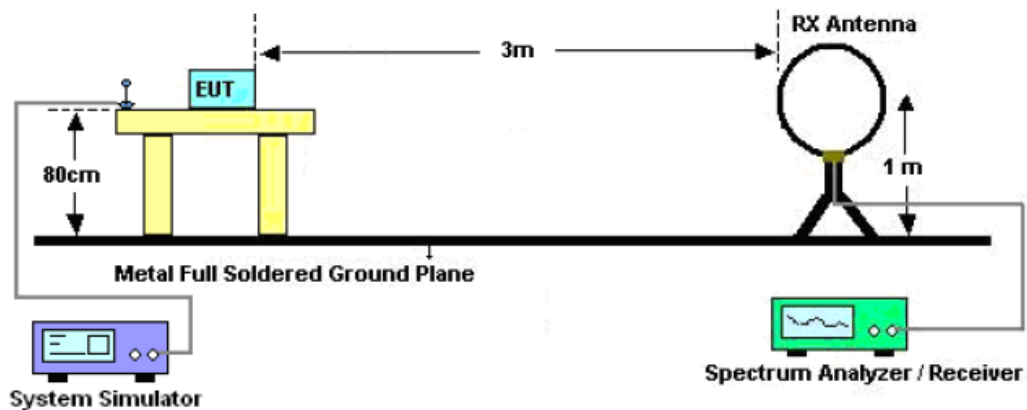
11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

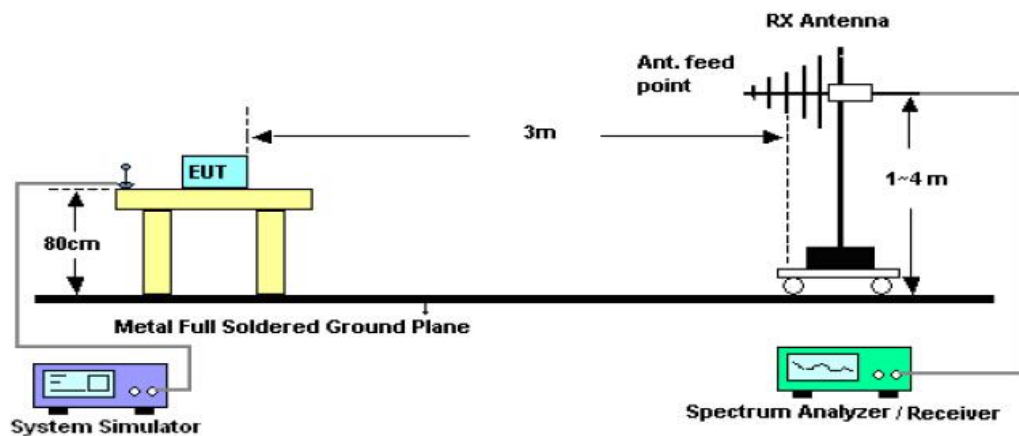


11.2. TEST SETUP

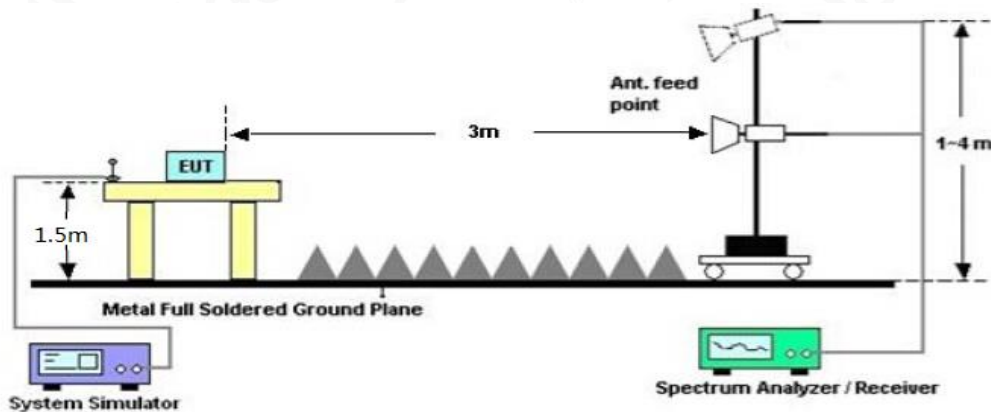
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table 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

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

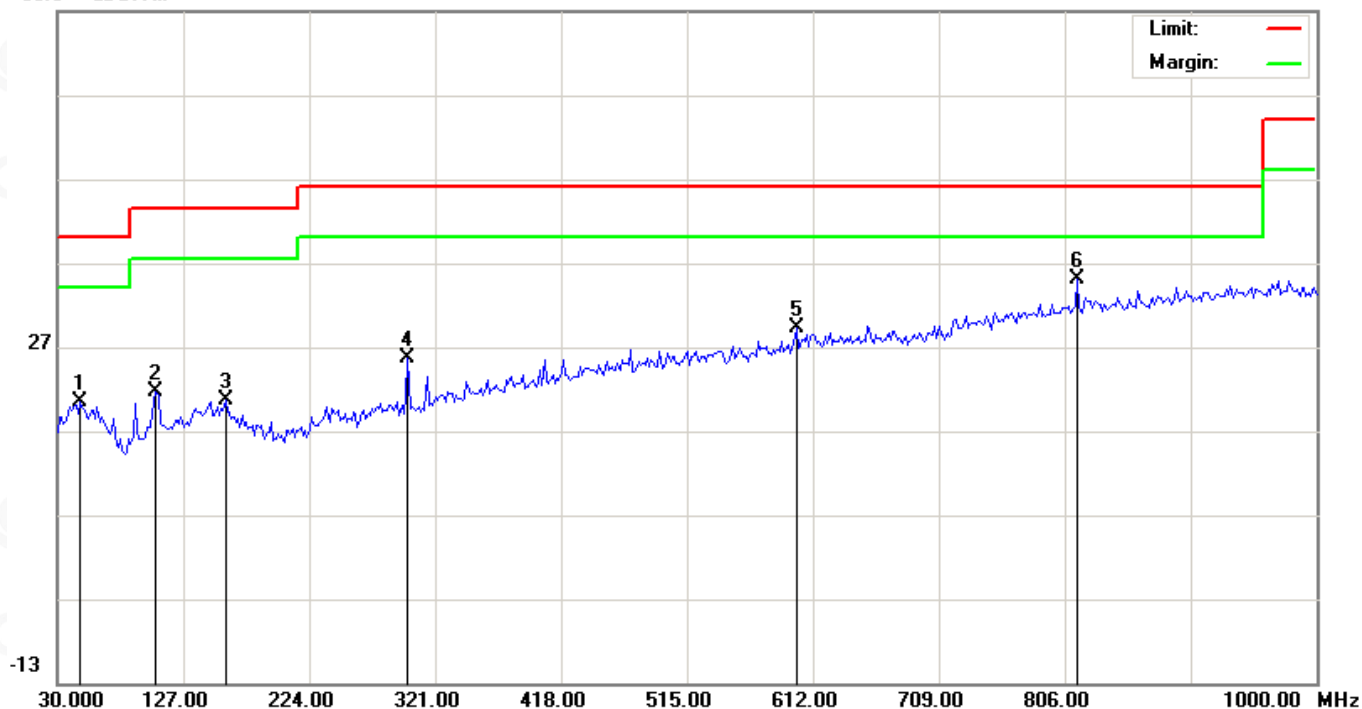
No emission found between lowest internal used/generated frequencies to 30MHz.



RADIATED EMISSION BELOW 1GHZ

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

66.9 dBuV/m

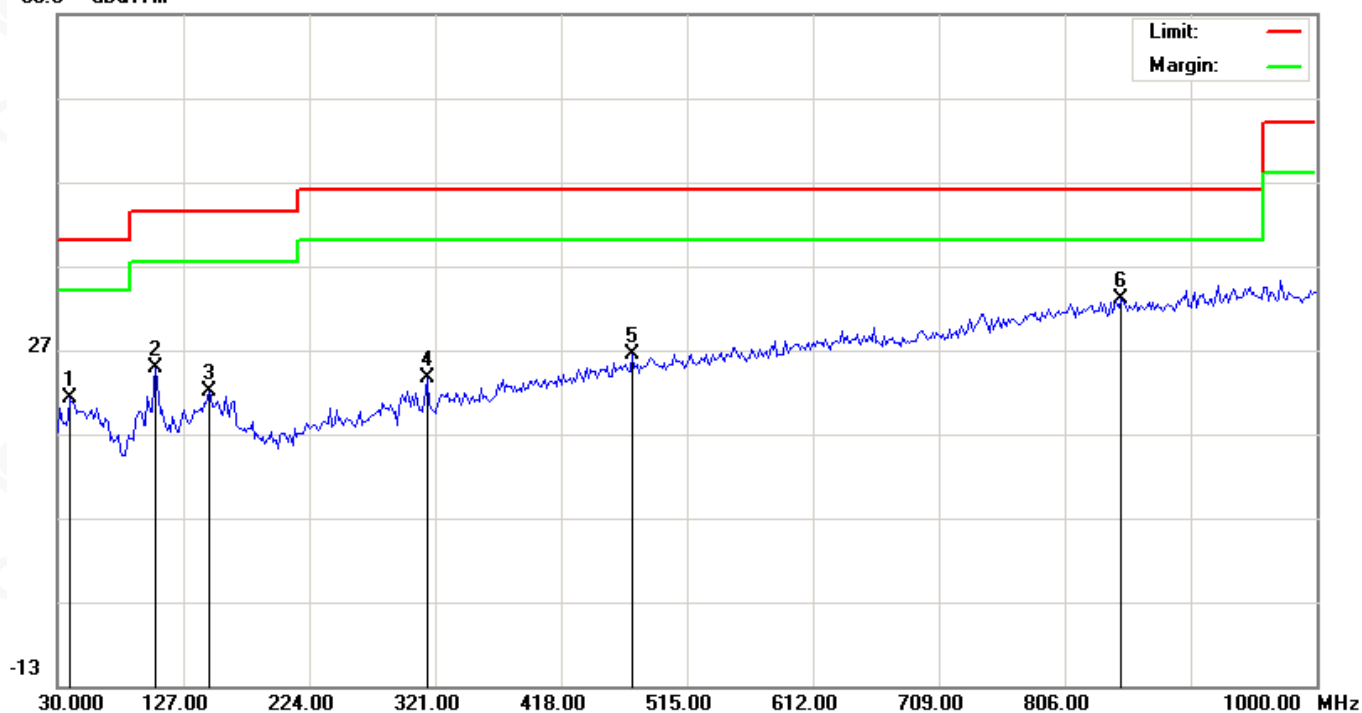


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		47.7833	0.62	19.81	20.43	40.00	-19.57	peak
2		105.9833	4.94	16.60	21.54	43.50	-21.96	peak
3		159.3333	1.51	19.19	20.70	43.50	-22.80	peak
4		299.9833	6.07	19.47	25.54	46.00	-20.46	peak
5		599.0667	2.27	26.93	29.20	46.00	-16.80	peak
6	*	815.7000	4.30	30.61	34.91	46.00	-11.09	peak

RESULT: PASS


EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

66.9 dBuV/m



No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector
1		39.7000	1.27	19.98	21.25	40.00	-18.75	peak
2		105.9833	8.16	16.60	24.76	43.50	-18.74	peak
3		146.4000	2.72	19.22	21.94	43.50	-21.56	peak
4		314.5333	3.66	19.98	23.64	46.00	-22.36	peak
5		472.9667	2.01	24.45	26.46	46.00	-19.54	peak
6	*	849.6500	1.99	31.05	33.04	46.00	-12.96	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.



RADIATED EMISSION ABOVE 1GHZ

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	44.21	0.08	44.29	74	-29.71	peak
4804.000	38.77	0.08	38.85	54	-15.15	AVG
7206.000	41.32	2.21	43.53	74	-30.47	peak
7206.000	35.6	2.21	37.81	54	-16.19	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4804.000	42.55	0.08	42.63	74	-31.37	peak
4804.000	36.86	0.08	36.94	54	-17.06	AVG
7206.000	39.28	2.21	41.49	74	-32.51	peak
7206.000	33.96	2.21	36.17	54	-17.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	43.79	0.14	43.93	74	-30.07	peak
4880.000	36.51	0.14	36.65	54	-17.35	AVG
7320.000	39.27	2.36	41.63	74	-32.37	peak
7320.000	33.44	2.36	35.8	54	-18.2	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4880.000	40.23	0.14	40.37	74	-33.63	peak
4880.000	35.92	0.14	36.06	54	-17.94	AVG
7320.000	35.69	2.36	38.05	74	-35.95	peak
7320.000	32.3	2.36	34.66	54	-19.34	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	43.02	0.22	43.24	74	-30.76	peak
4960.000	37.64	0.22	37.86	54	-16.14	AVG
7440.000	39.44	2.64	42.08	74	-31.92	peak
7440.000	35.13	2.64	37.77	54	-16.23	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4960.000	38.63	0.22	38.85	74	-35.15	peak
4960.000	35.88	0.22	36.1	54	-17.9	AVG
7440.000	32.46	2.64	35.1	74	-38.9	peak
7440.000	31.94	2.64	34.58	54	-19.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

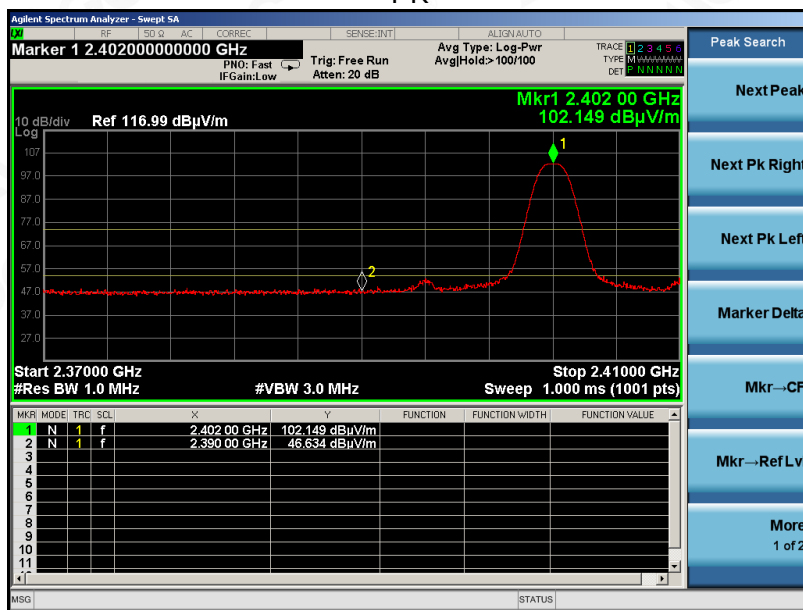
The “Factor” value can be calculated automatically by software of measurement system.



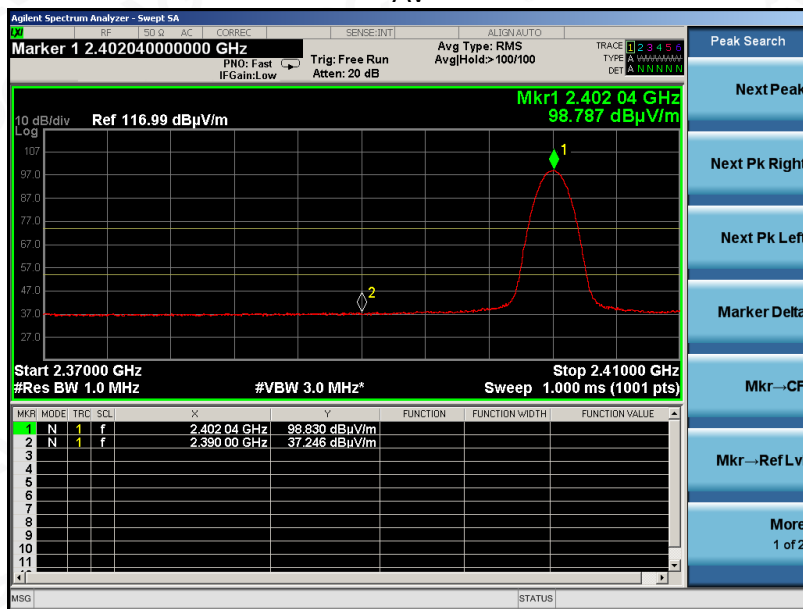
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV

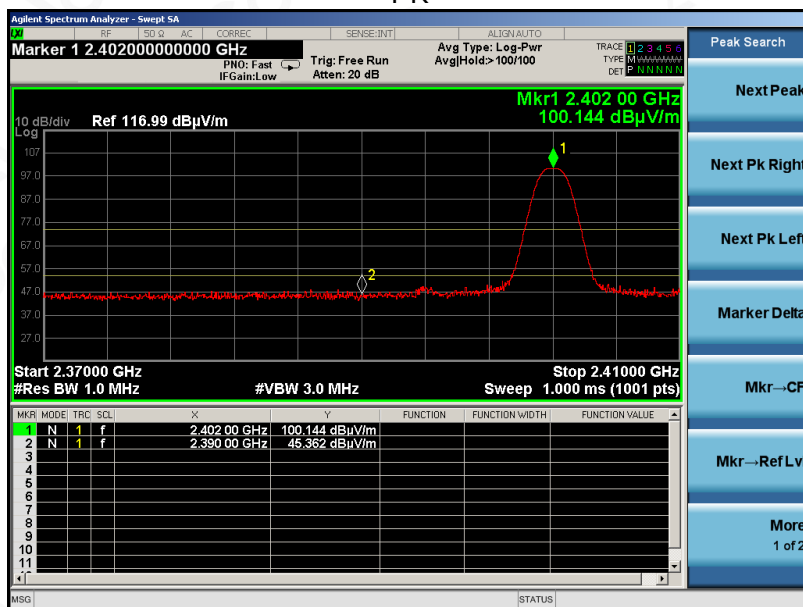


RESULT: PASS



EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV

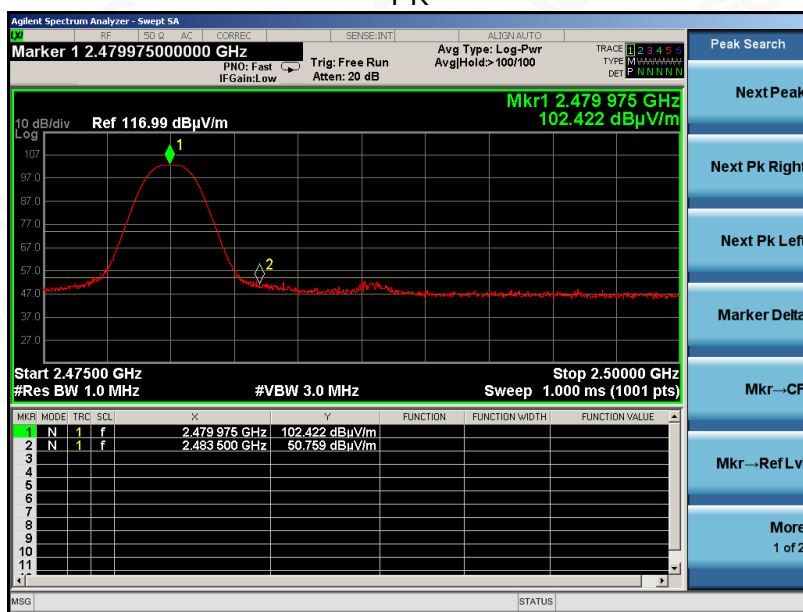


RESULT: PASS



EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

PK



AV

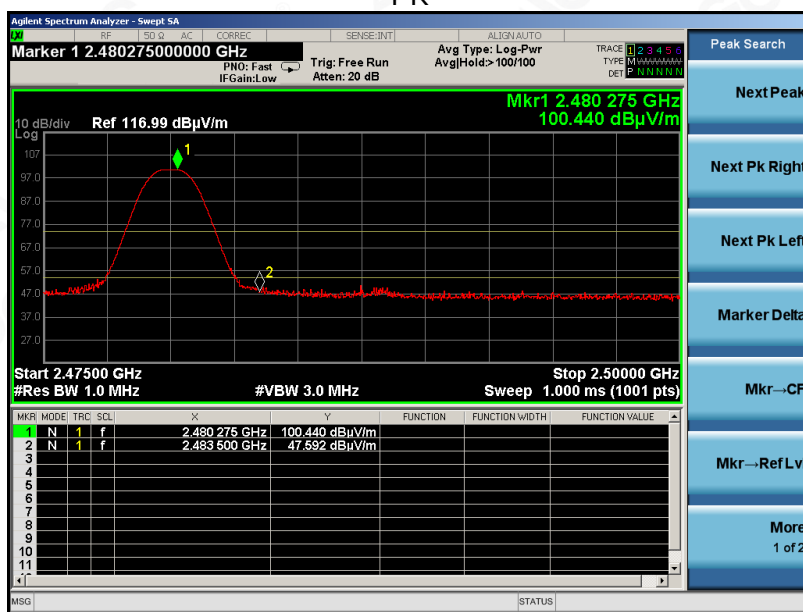


RESULT: PASS



EUT	Soundcore Life P2, Soundcore Life Note	Model Name	A3919LT, A3908LT
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

PK



AV



RESULT: PASS

Note: The factor had been edited in the “Input Correction” of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



12. FCC LINE CONDUCTED EMISSION TEST

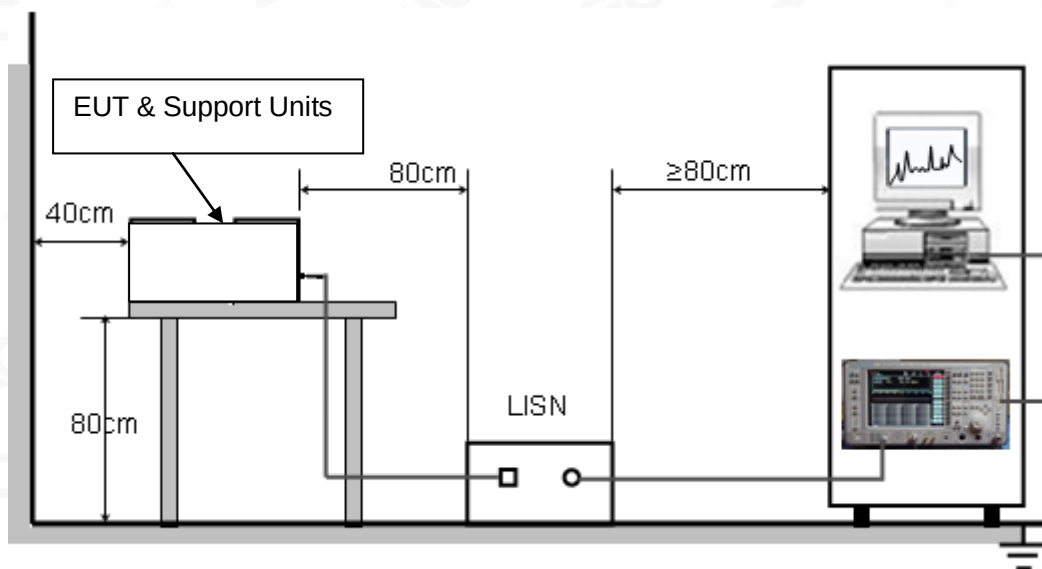
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note: 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received AC120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Note: The EUT is powered by battery.



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01110200514AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01110200514AP01

----END OF REPORT----

