

FCC/ISED - TEST REPORT

Report Number	68.760.22.0603.01 Date of Issue: 2022-09-07				
Model	MLN-00, MLN-01, MLN-02, MLN-03				
Product Type	Bluetooth Earbuds				
Applicant	Cosonic Intelligent Technologies Co.,Ltd.				
Address	5th Floor,1st Building,No.6 South Industry Road,				
	Songshan Lake Hi-tech Industrial, Development Zone,				
	523808 Dongguan, China				
Production Facility	Cosonic Electroacoustic Technology Co., Ltd.				
Address	: No.151, Shipai Section, Dongyuan Avenue, Shipai Town,				
	523331 Dongguan City, Guangdong Province,				
	PEOPLE'S REPUBLIC OF CHINA				
Test Result	■ Positive □ Negative				
Total pages including Appendices	68				

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, 518052 China
FCC Designation Number:	CN5009
FCC Registration No.:	514049
Telephone: Fax:	86 755 8828 6998 86 755 8828 5299



3 Description of the Equipment Under Test

Product:	Bluetooth Earbuds
Model no.:	MLN-00
FCC ID:	2ALVK-MLN00
Trade Mark:	MOECEN, HONOR CHOICE
Rating:	5VDC, 0.5A
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	79
Modulation:	GFSK, π/4-DQPSK, 8DPSK
Antenna Type:	FPC Antenna
Antenna Gain:	-3.0dBi max for 2.4GHz
Description of the EUT:	The equipment under test is a Bluetooth Earbuds supports with 2.4GHz BR/EDR and BLE functions.



4 Summary of Test Standards

Test Standards			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES		
10-1-2021 Edition	Subpart C - Intentional Radiators		

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure, KDB558074 D01 v05r02 and ANSI C63.10-2013.



5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpar	rt C		-	
Test Condition		Test Result	Test Site	
§15.207	Conducted emission AC power port	Pass	Site 1	
§15.247 (b) (3)	Conducted output power	Pass	Site 1	
§15.247(e)	Power spectral density	N/A		
§15.247(a)(2)	6dB bandwidth	N/A		
§15.247(a)(1)	20dB Occupied bandwidth	Pass	Site 1	
§15.247(a)(1)	Carrier frequency separation	Pass	Site 1	
§15.247(a)(1)(iii)	Number of hopping frequencies	Pass	Site 1	
§15.247(a)(1)(iii)	Dwell Time	Pass	Site 1	
§15.247(d)	Spurious RF conducted emissions	Pass	Site 1	
§15.247(d)	Band edge	Pass	Site 1	
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Pass	Site 1	
§15.203	Antenna requirement	Pass See note 1		

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a FPC Antenna, which gain is -3.0dBi. In accordance to §15.203 and RSS-Gen 6.8, it is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2ALVK-MLN00, complies with Section 15.207, 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

Models MLN-01, MLN-02 and MLN-03 are identical with model MLN-00 except for model name, the left and right earbuds are identical in components, circuit, PCB layout and software version. Unless otherwise specified, the model MLN-00 (single earbuds) was chosen as the representative model to perform full tests, and other models are deemed to fulfil relevant requirements without further testing.

The TX and RX range is 2402MHz-2480MHz for Bluetooth.

Note: The report is for the BR+EDR part.

SUMMARY:

All tests according to the regulations cited on page 6 were

- Performed
- □ Not Performed

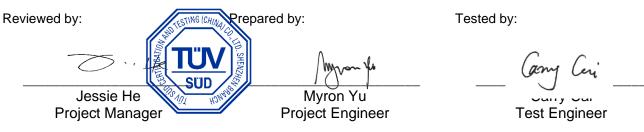
The Equipment Under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date:2022-08-01Testing Start Date:2022-08-26

Testing End Date: 2022-09-06

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

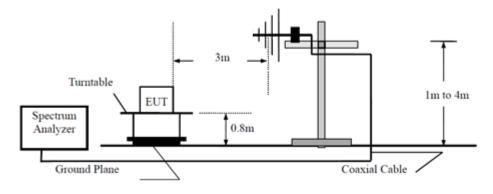


TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299

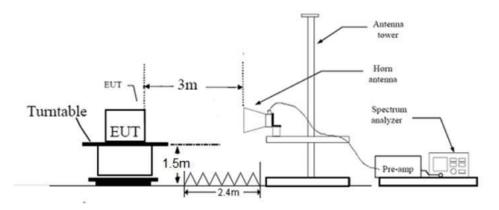
7 Test Setups

7.1 Radiated test setups

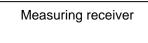
Below 1GHz



Above 1GHz

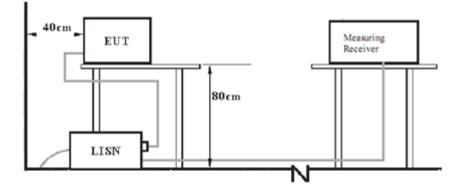


7.2 Conducted RF test setups



EUT

7.3 AC Power Line Conducted Emission test setups



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8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
LAPTOP	LENOVO	X220	429044C
ADAPTOR	APPLE	A1357	

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting.

Test Software Information:

Test Software Version	Qualcomm BlueSuite 3.3.2		
Modulation	Setting TX Power		
GFSK	6		
π/4-DQPSK	6		
8-DPSK	6		



9 Technical Requirement

9.1 Conducted Emission

Test Method

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. Both sides of AC line were checked for maximum conducted interference.
- 6. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

Limit

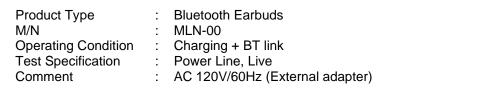
According to §15.207, conducted emissions limit as below:

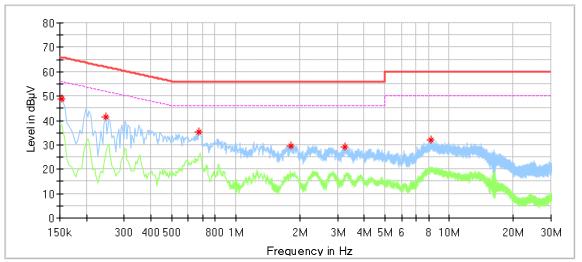
Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

*Decreasing linearly with logarithm of the frequency



Conducted Emission





Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154000	48.74		65.78	17.04	L1	9.25
0.246000	41.45		61.89	20.44	L1	9.23
0.670000	35.39		56.00	20.61	L1	9.20
1.814000	29.48		56.00	26.52	L1	9.22
3.254000	29.33		56.00	26.67	L1	9.26
8.198000	31.98		60.00	28.02	L1	9.38

Remark:

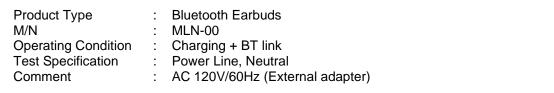
Level=Reading Level + Correction Factor

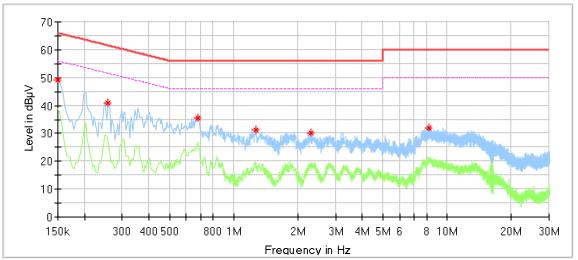
Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



Conducted Emission





Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150000	49.04		66.00	16.96	Ν	9.40
0.258000	41.04		61.50	20.45	Ν	9.39
0.682000	35.43		56.00	20.57	Ν	9.39
1.266000	31.11		56.00	24.89	Ν	9.40
2.290000	30.02		56.00	25.98	Ν	9.43
8.198000	31.91		60.00	28.09	Ν	9.59

Remark:

Level=Reading Level + Correction Factor

Correction Factor=Cable Loss + LISN Factor

(The Reading Level is recorded by software which is not shown in the sheet)



Test Method

- 1. The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- Use the following spectrum analyzer settings: Span = approximately 5 times the 20dB bandwidth, centered on a hopping channel RBW > the 20dB bandwidth of the emission being measured, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 3. Allow the 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

Limits

According to §15.247 (b) (3), conducted output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30



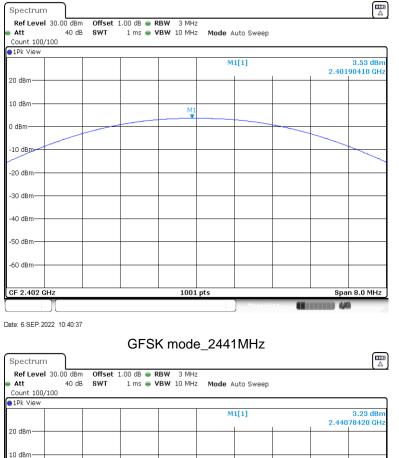
Bluetooth Mode G	Bluetooth Mode GFSK modulation Test Result				
Frequency	Conducted Output Power	Result			
MHz	dBm				
Low channel 2402MHz	3.53	Pass			
Middle channel 2441MHz	3.23	Pass			
High channel 2480MHz	3.09	Pass			

Bluetooth Mode π /4-DQPSK modulation Test Result

Frequency	Conducted Output Power	Result
MHz	dBm	
Low channel 2402MHz	3.19	Pass
Middle channel 2441MHz	2.88	Pass
High channel 2480MHz	2.72	Pass

Bluetooth Mode 8DPSK modulation Test Result

Frequency	Output Power	
MHz	dBm	
Low channel 2402MHz	3.69	Pass
Middle channel 2441MHz	3.39	Pass
High channel 2480MHz	3.28	Pass



M1

1001 pts

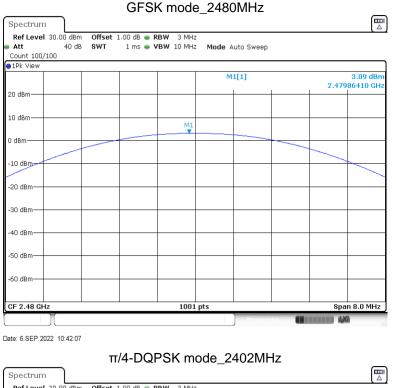
Span 8.0 MHz

GFSK mode_2402MHz

CF 2.441 GHz

Date: 6.SEP.2022 10:41:31

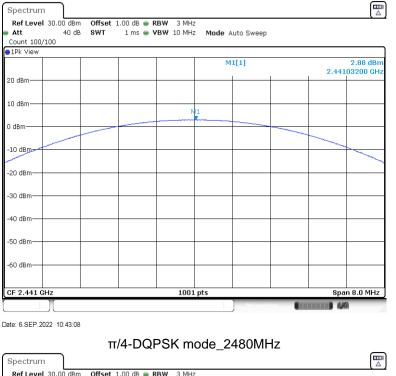






Date: 6.SEP.2022 10:42:39

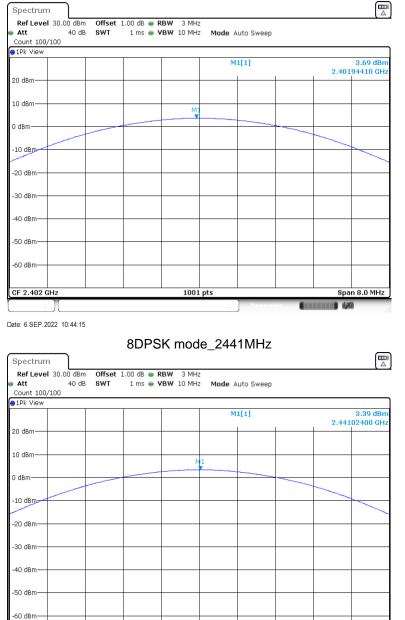




π/4-DQPSK mode_2441MHz

Date: 6.SEP.2022 10:43:08 Offset 1.00 dB ● RBW 3 MHz SWT 1 ms ● VBW 10 MHz Mode Auto Sweep Ref Level 30.00 dBm Att Count 100/100 40 dB SWT ∋1Pk View 2.72 dBn 2.47986410 GH M1[1] 20 dBm 10 dBm M1 0 dBm -10 dBm; -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm 1001 pts Span 8.0 MHz CF 2.48 GHz

Date: 6.SEP.2022 10:43:42



1001 pts

Span 8.0 MHz

8DPSK mode_2402MHz

Date: 6.SEP.2022 10:44:33

CF 2.441 GHz

	de Auto Sweep	
	M1[1]	3.28 dE 2.47995200 G
M		
1001 pts		Span 8.0 MH
		1 ms • VBW 10 MHz Mode Auto Sweep

8DPSK mode_2480MHz

Date: 6.SEP.2022 10:44:46





9.3 20 dB bandwidth

Test Method

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Limit

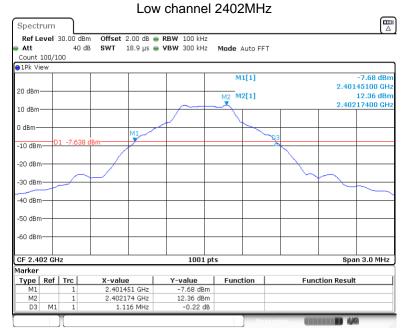
Limit [kHz]

N/A



Bluetooth Mode GFSK Modulation test result

Frequency	20 dB Bandwidth	Limit	Result
MHz	kHz	kHz	
2402	1116		Pass
2441	1116		Pass
2480	1113		Pass



Date: 18.AUG.2022 15:45:05

Middle channel 2441MHz

Spectrum					
Ref Level 30.00 Att Count 100/100		RBW 100 kHz VBW 300 kHz	Mode Auto FFT		
1Pk View					
20 dBm			M1[1]		-7.96 dBn 2.44045100 GH 12.05 dBn
10 dBm			<u> </u>		2.44117100 GH
0 dBm	M1	\leftarrow			
-10 dBm D1 -7.	954 dBm				
-20 dBm					
-30 dBm				\vdash	\sim
-40 dBm					
-50 dBm					
-60 dBm					
co ubiii					
CF 2.441 GHz		1001 pt	s		Span 3.0 MHz
Marker					
Type Ref Trc		Y-value	Function	Functi	on Result
M1 1		-7.96 dBm			
M2 1 D3 M1 1		12.05 dBm -0.20 dB			
][Measu		4/4

Date: 18.AUG.2022 15:47:14

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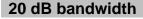
High channel 2480MHz Spectrum Ref Level 30.00 dBm Att Count 100/100 40 dB **SWT** Mode Auto FFT ∋1Pk View -8.41 dBn 2.47945100 GH: M1[1] 20 dBm M2[1] 11.63 dBm 2.48017100 GHz M2 10 dBm 0 dBm M1 D1 -8.373 -10 dBm--20 dBr -30 dBm -40 dBm -50 dBm -60 dBm Span 3.0 MHz 1001 pts CF 2.48 GHz Marker
 Y-value
 Function

 -8.41 dBm
 -8.41 dBm

 11.63 dBm
 -8.41 dBm

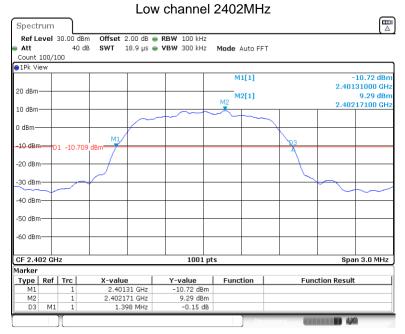
 0.00 dB
 -8.41 dBm
 X-value 2.479451 GHz 2.480171 GHz 1.113 MHz Type Ref Trc Function Result M: M2 D3 М1 4/4 Date: 18.AUG.2022 15:48:45





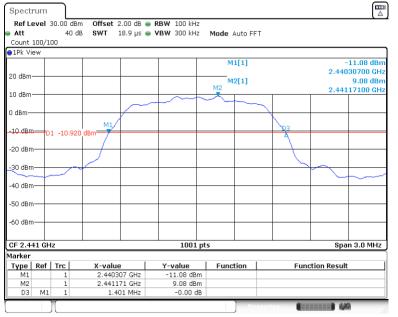
Bluetooth Mode π /4-DQPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	Limit kHz	Result
2402	1398		Pass
2441	1401		Pass
2480	1401		Pass



Date: 18.AUG.2022 15:50:45

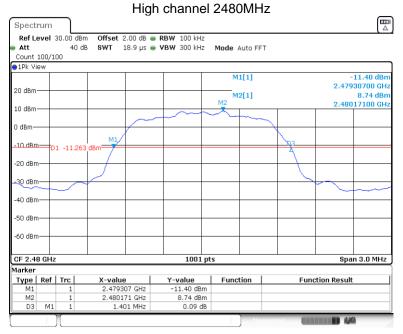
Middle channel 2441MHz



Date: 18.AUG.2022 15:52:26

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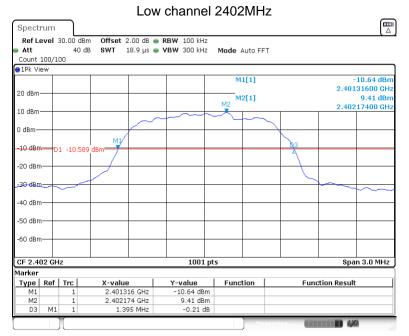


Date: 18.AUG.2022 15:53:53

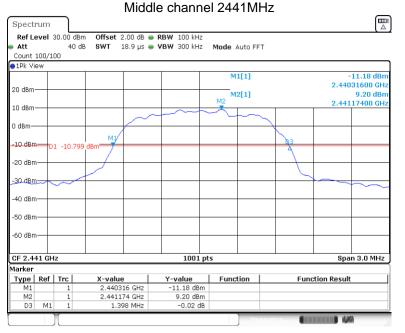


Bluetooth Mode 8DPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	Limit kHz	Result
2402	1395		Pass
2441	1398		Pass
2480	1398		Pass



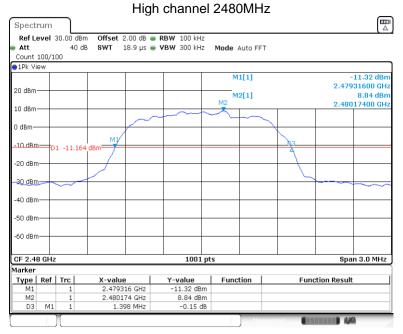
Date: 18.AUG.2022 15:55:36



Date: 18.AUG.2022 15:57:07

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Date: 18.AUG.2022 15:59:21



9.4 Carrier Frequency Separation

Test Method

- 1. Use the following spectrum analyzer settings:
- Span = wide enough to capture the peaks of two adjacent channels, RBW \geq 1% of the span, VBW) \geq RBW, Sweep = auto, Detector function = peak
- 2. By using the Max-Hold function record the separation of two adjacent channels.
- 3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
- 4. Repeat above procedures until all frequencies measured were complete.

Limit

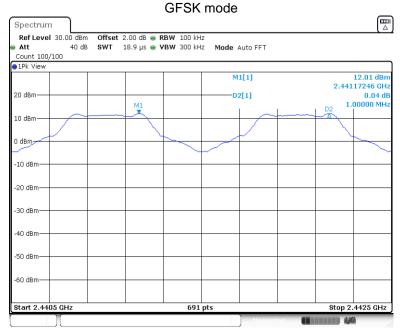
	Limit kHz
\geq 25KHz or 2/3 of the 2	0 dB bandwidth which is greater
Frequency	2/3 of 20 dB Bandwidth
MHz	kHz
GFSK	744
π/4-DQPSK	934
8DPSK	932



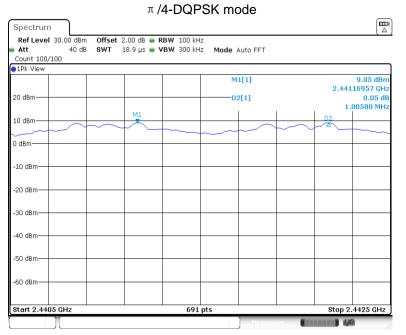


Carrier Frequency Separation

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
GFSK	Ant1	Нор	1.000	>=0.744	PASS
π/4-DQPSK	Ant1	Нор	1.006	>=0.934	PASS
8DPSK	Ant1	Нор	1.003	>=0.932	PASS



Date: 18.AUG.2022 16:01:20

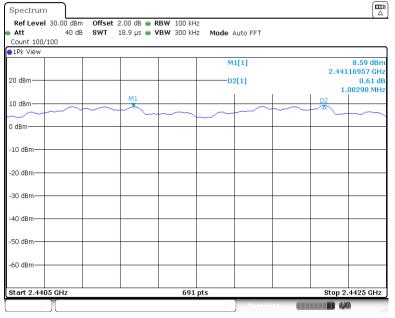


Date: 18.AUG.2022 16:09:01



Carrier Frequency Separation

8DPSK mode



Date: 18.AUG.2022 16:12:42

9.5 Number of hopping frequencies

Test Method

- Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
- 2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
- 3. Record all the signals from each channel until each one has been recorded.
- 4. Repeat above procedures until all frequencies measured were complete.

Limit

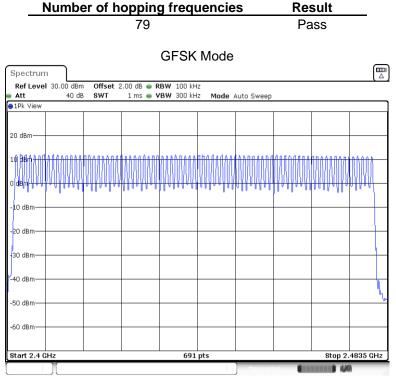
Limit <u>number</u> ≥15





Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification.



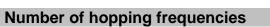
Date: 18.AUG.2022 16:01:45

π/4-DQPSK Mode

Att 1Pk View	l 30.00 dBn 40 dB		2.00 dB 👄 R 1 ms 👄 V	BW 100 kH BW 300 kH	-	Auto Sweep			
:0 dBm									
0 dBm \\\\\\\\\\ dBm───	MMM	nnnn	White	MANA	www	www	Myhwr	www	white
LO dBm									
:0 dBm									
0 dBm									
50 dBm									ر» ا
50 dBm									
tart 2.4 0	Hz			691	pts			Stop 2	.4835 GHz

Date: 18.AUG.2022 16:07:37

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8DPSK Mode

40 dB	SWT	1 1115 🖝 🖡	BW 300 kH:	. Houe	Auto Sweep			
draded	Addata	unnaan	rhhhah	INTELL	Avravia	aankAhAk	กรณีประกภ	landad
	ومراجوه	-410-0-91	And . d. n.	0 4 0 4 0-0		and dear and a	180 - Ol 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
								<u> </u>
								V
z			691	pts			Stop 2.	.4835 GHz
							Image: state	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Date: 18.AUG.2022 16:13:12



9.6 Dwell Time

Test Method

- 1. The RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit to hopping mode.
- 3. Use the following spectrum analyzer settings: RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span Set the spectrum analyzer on Max-Hold Mode,
- 4. Adjust the center frequency of spectrum analyzer on any frequency be measured.
- 5. Measure the Dwell Time by spectrum analyzer Marker function. Record the results. Dwell Time = Burst Width * Total Hops
- 6. Repeat above procedures until all frequencies measured were complete.

Limit

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.





Dwell Time

Dwell time

The maximum dwell time shall be 0.4 s.

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows: The duration for dwell time calculation: 0.4 [s] * hopping number = 0.4 [s] * 79 [ch] = 31.6 [s*ch];

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops	Result [s]	Limit [s]	Verdict
GFSK	Ant1	Нор	2.87	110	0.316	<=0.4	PASS
π/4-DQPSK	Ant1	Нор	2.87	120	0.344	<=0.4	PASS
8DPSK	Ant1	Нор	2.87	120	0.345	<=0.4	PASS

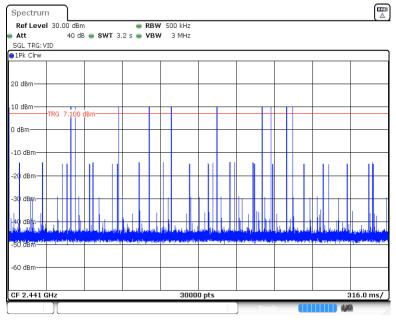
	0101	mode				G	
Spectrum							
Ref Level 30.00 dBm	🔵 RBW 1 MHz						
Att 40 dB 👄 SWT 10 m	is 👄 VBW 3 MHz						
SGL TRG: VID							
1Pk Clrw							
		M1[1]				-1.46 dBr -1.00 µ	
20 dBm		D2[1]				0.93 d	
					2.87036 n		
10 dBm							
TRG 7.100 dBm							
0 dBm	D2						
	l Î						
-10 dBm							
-20 dBm							
-30 dBm							
-40 dBm							
والمتالية المترجع المتعالية المتعادية والمتعادية والمتعادية		الالالة الالميا	الارائة لاعارية الأت	well Handar	الملكاني في الرارك	an hairin a	
n da se suciedada en teine		and the second	ىرى ئىلمى ئەرىيە	nin daa in	ani kantani	in a k ti	
LEAD THAT IS A REAL POINT OF A REAL PROVIDED IN THE REAL PROVIDED IN THE REAL PROVIDED IN THE REAL PROVIDED IN		CHARGENER	de alla da	a de la condition	a de la del de la compañía de la com	। भाषा मा भाषा	
-60 dBm	· · · · ·	10 HW - 11	1 I I		1		
						10	
CF 2.441 GHz	8000	prs				1.0 ms/	

GFSK mode

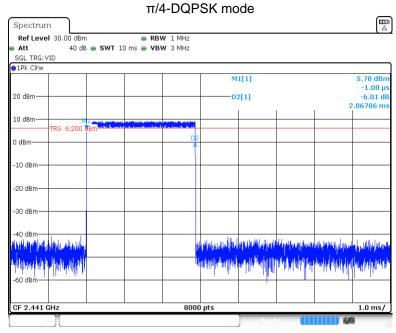
Date: 18.AUG.2022 16:01:57

Report Number: 68.760.22.0603.01

Dwell Time



Date: 18.AUG.2022 16:02:02

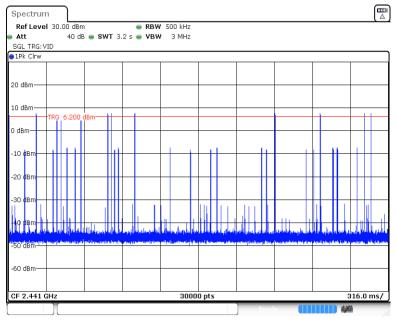


Date: 18.AUG.2022 16:07:49

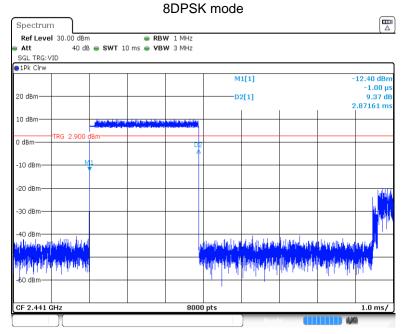
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Report Number: 68.760.22.0603.01

Dwell Time



Date: 18.AUG.2022 16:07:55

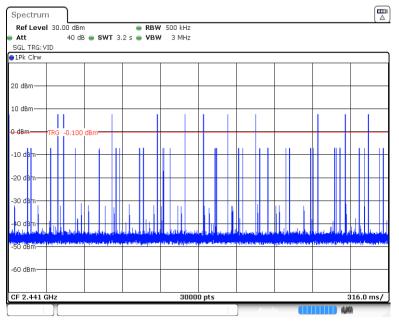


Date: 18.AUG.2022 16:13:21

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Report Number: 68.760.22.0603.01

Dwell Time



Date: 18.AUG.2022 16:13:26



Test Method

1. Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

- RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 3. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 4. Repeat above procedures until all frequencies measured were complete.

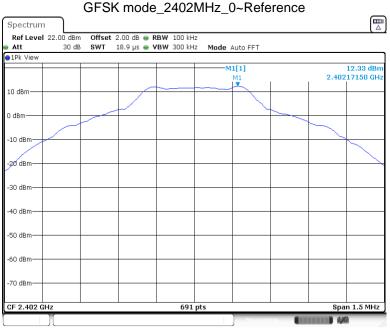
Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

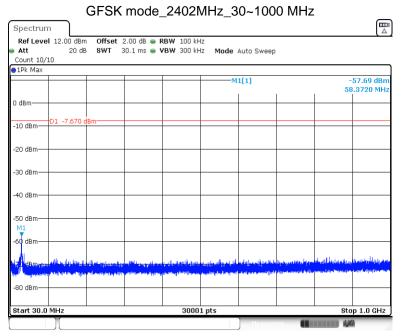




Remark: The emissions exceed limit is fundamental signal.

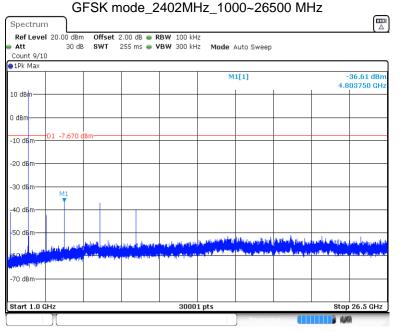


Date: 18.AUG.2022 15:45:31

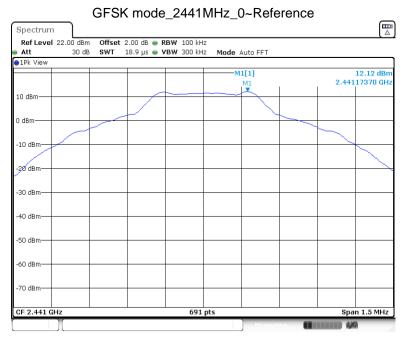


Date: 18.AUG.2022 15:45:37

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Date: 18.AUG.2022 15:45:45



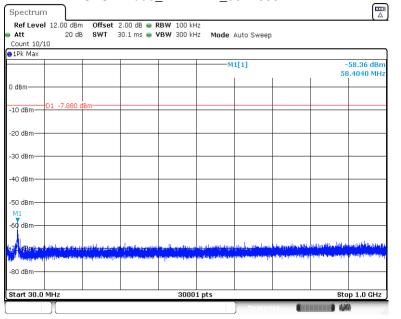
Date: 18.AUG.2022 15:47:31

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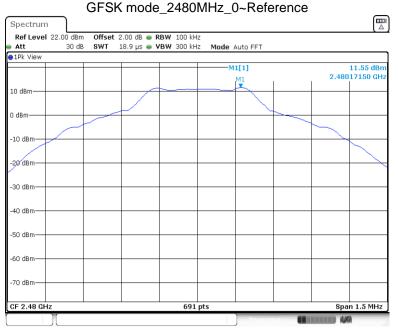
GFSK mode_2441MHz_30~1000 MHz

Date: 18.AUG.2022 15:47:37

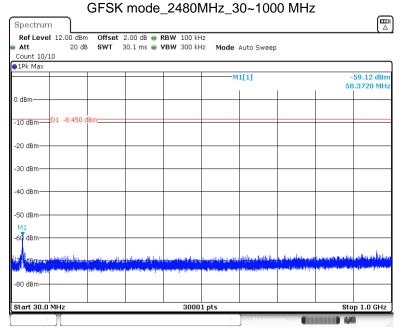
GFSK mode_2441MHz_1000~26500 MHz Spectrum Ref Level 20.00 dBm
 Offset
 2.00 dB
 RBW
 100 kHz

 SWT
 255 ms
 VBW
 300 kHz
 30 dB Mode Auto Sweep Att Count 9/10 ⊖1Pk Max M1[1] -37.15 dBr 4.881950 GH 10 dBr 0 dBi -10 dE -20 dB -30 dE M1 ▼ 40 d 50 d 10.0 -70 dBr Start 1.0 GHz 30001 pts Stop 26.5 GHz 1.1

Date: 18.AUG.2022 15:47:44

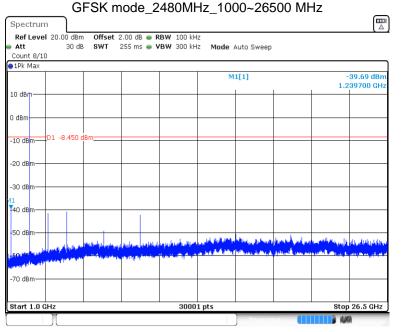


Date: 18.AUG.2022 15:49:10

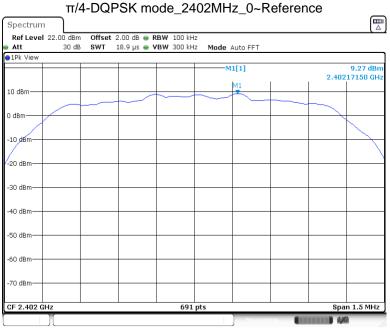


Date: 18.AUG.2022 15:49:16





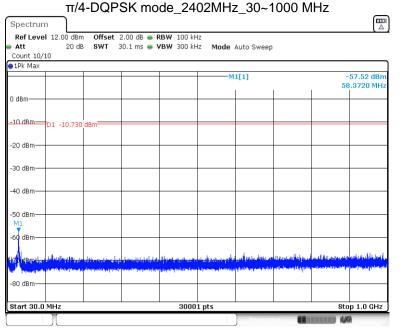
Date: 18.AUG.2022 15:49:24



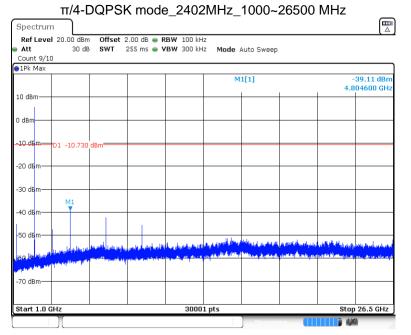
Date: 18.AUG.2022 15:51:10

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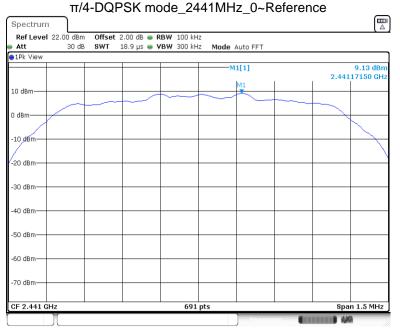




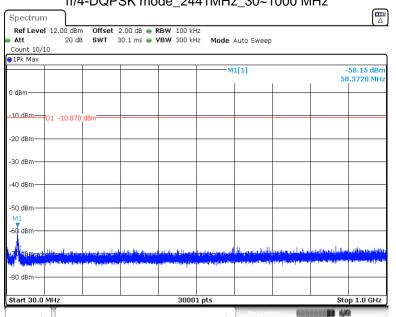
Date: 18.AUG.2022 15:51:16



Date: 18.AUG.2022 15:51:24



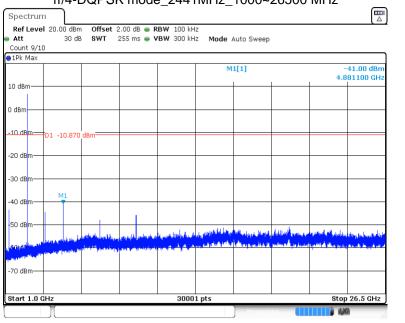
Date: 18.AUG.2022 15:52:42



π/4-DQPSK mode_2441MHz_30~1000 MHz

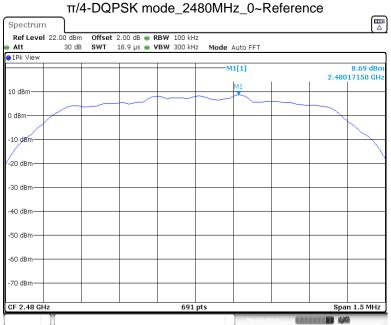
Date: 18.AUG.2022 15:52:48



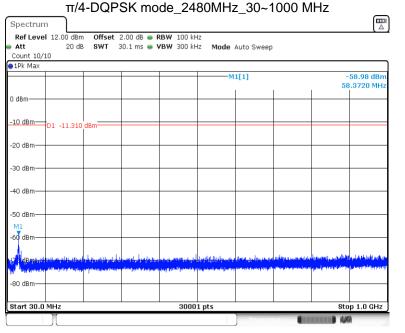


π/4-DQPSK mode_2441MHz_1000~26500 MHz

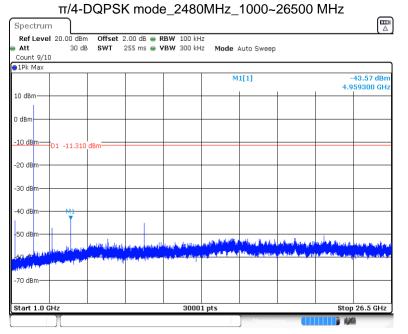
Date: 18.AUG.2022 15:52:56



Date: 18.AUG.2022 15:54:19

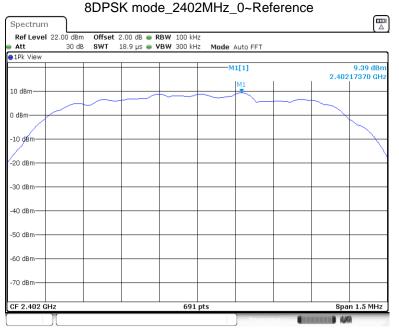


Date: 18.AUG.2022 15:54:25

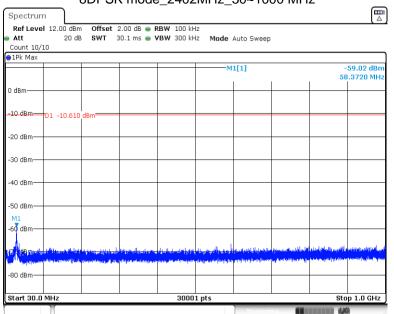


Date: 18.AUG.2022 15:54:33





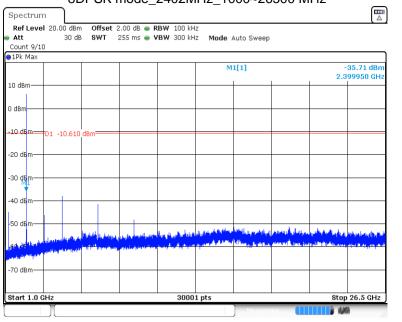
Date: 18.AUG.2022 15:56:02



8DPSK mode_2402MHz_30~1000 MHz

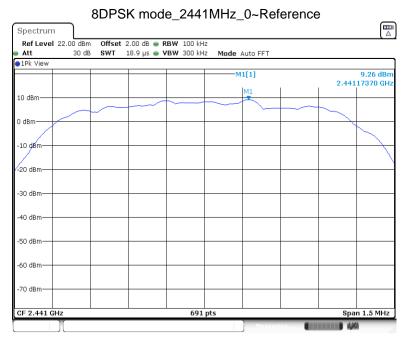
Date: 18.AUG.2022 15:56:08



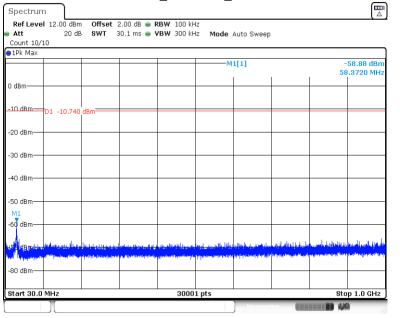


8DPSK mode_2402MHz_1000~26500 MHz

Date: 18.AUG.2022 15:56:15

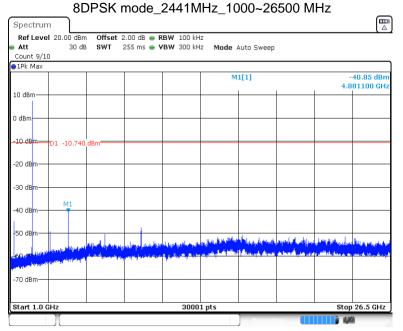


Date: 18.AUG.2022 15:57:24

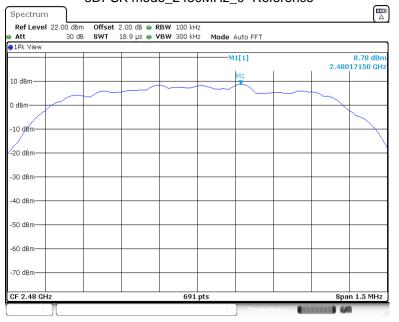


8DPSK mode_2441MHz_30~1000 MHz

Date: 18.AUG.2022 15:57:30

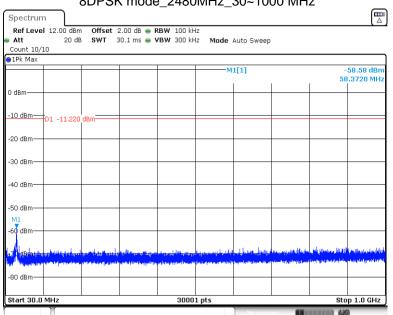


Date: 18.AUG.2022 15:57:38



8DPSK mode_2480MHz_0~Reference

Date: 18.AUG.2022 15:59:47



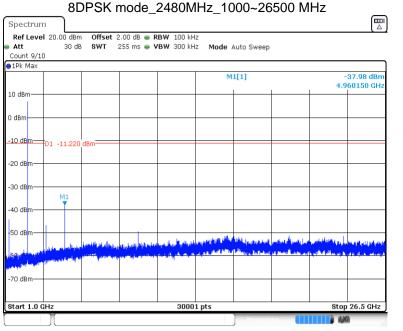
8DPSK mode_2480MHz_30~1000 MHz

Date: 18.AUG.2022 15:59:53

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Date: 18.AUG.2022 16:00:01



9.8 Band edge

Test Method

1 Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold

- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.
- 4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

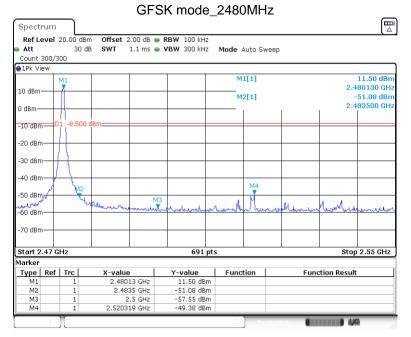


GFSK mode_2402MHz Spectrum Ref Level 20.00 dBm Offset 2.00 dB - RBW 100 kHz Att 30 dB SWT 246.5 µs ● VBW 300 kHz Mode Auto FFT Count 300/300 ∋1Pk View 12.10 dB 2.402190 G M1[1] 10 dBm M2[1] -41.08 d 400000 G 2. 0 dBm 1 -7.900 -10 dBm -20 dBm -30 dBm -40 dBm -50 dBr 60 dBod -70 dBm Stop 2.405 GHz Start 2.3 GHz 691 pts Marker X-value 2.40219 GHz 2.4 GHz 2.39 GHz 2.399978 GHz Y-value 12.10 dBm -41.08 dBm -59.47 dBm -42.13 dBm
 Type
 Ref
 Trc

 M1
 1

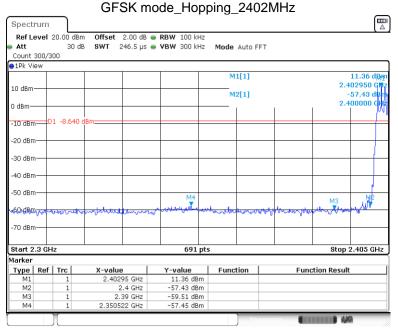
 M2
 1
 Function Function Result М3 М4 III 1/6

Date: 18.AUG.2022 15:45:25

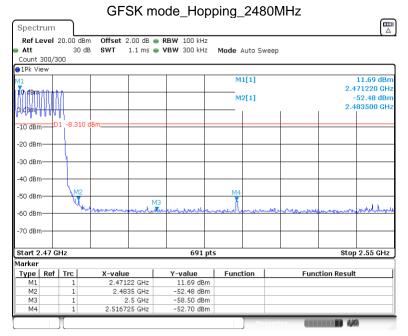


Date: 18.AUG.2022 15:49:04





Date: 18.AUG.2022 16:00:49



Date: 18.AUG.2022 16:05:19

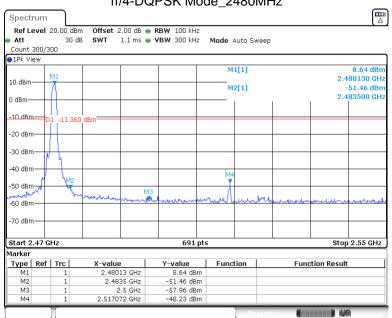


Spectrum Ref Level 20.00 dBm Offset 2.00 dB - RBW 100 kHz Att 30 dB SWT 246.5 µs ● VBW 300 kHz Mode Auto FFT Count 300/300 ∋1Pk View 8.39 dB 2.401880 dF -46.76 dB 2.400000 GF M1[1] 10 dBm M2[1] 0 dBm -10 dBm D1 -11.610 -20 dBm -30 dBm -40 dBm -50 dBr 60 dBr -70 dBm Stop 2.405 GHz Start 2.3 GHz 691 pts Marker X-value 2.40188 GHz 2.4 GHz 2.39 GHz 2.399674 GHz Y-value 8.39 dBm -46.76 dBm -59.72 dBm -44.11 dBm
 Type
 Ref
 Trc

 M1
 1

 M2
 1
 Function Function Result М3 М4 III 440

Date: 18.AUG.2022 15:51:05



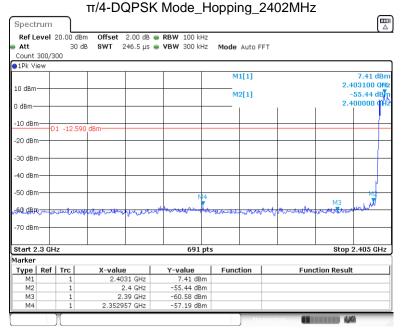
π/4-DQPSK Mode_2480MHz

Date: 18.AUG.2022 15:54:13

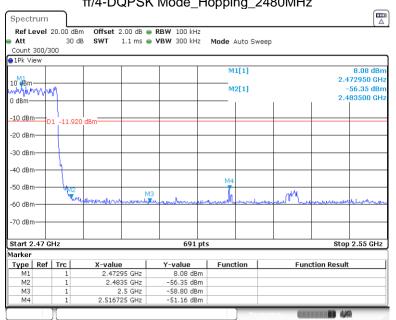
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π/4-DQPSK Mode_2402MHz



Date: 18.AUG.2022 16:05:51



π/4-DQPSK Mode_Hopping_2480MHz

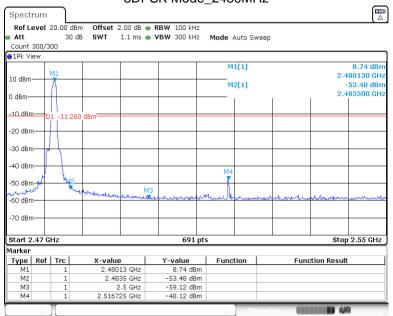
Date: 18.AUG.2022 16:11:00

8DPSK Mode_2402MHz Spectrum Ref Level 20.00 dBm Offset 2.00 dB - RBW 100 kHz Att 30 dB SWT 246.5 µs ● VBW 300 kHz Mode Auto FFT Count 300/300 ∋1Pk View 8.86 dBr 2.402040 MH -43.36 dAr M1[1] 10 dBm M2[1] 2.400000 0 dBm -10 dBm D1 -11.140 -20 dBm -30 dBm -40 dBm -50 dBr -60 dBm -70 dBm Stop 2.405 GHz Start 2.3 GHz 691 pts Marker X-value 2.40204 GHz 2.4 GHz 2.39 GHz 2.399978 GHz Y-value 8.86 dBm -43.36 dBm -59.35 dBm -44.56 dBm
 Type
 Ref
 Trc

 M1
 1

 M2
 1
 Function Function Result М3 М4 III 1/6

Date: 18.AUG.2022 15:55:56



8DPSK Mode_2480MHz

Date: 18.AUG.2022 15:59:41

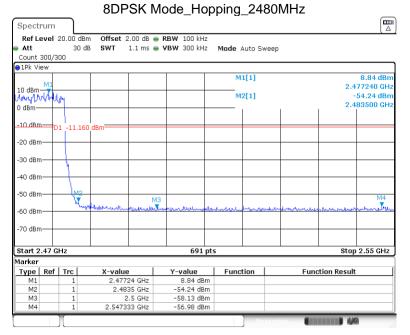


8DPSK Mode_Hopping_2402MHz Spectrum Ref Level 20.00 dBm Offset 2.00 dB 🖷 RBW 100 kHz Att 30 dB SWT 246.5 µs ● VBW 300 kHz Mode Auto FFT Count 300/300 ∋1Pk View 6.39 dBr 2.404620 GH M1[1] 10 dBm -45.95 dBn 2.400000 m M2[1] 0 dBm -10 dBm dBm -20 dBm -30 dBm -40 dBm -50 dBr L МЗ 60 dBm--70 dBm Stop 2.405 GHz Start 2.3 GHz 691 pts Marker X-value 2.40462 GHz 2.4 GHz 2.39 GHz 2.375478 GHz
 Type
 Ref
 Trc

 M1
 1

 M2
 1
 Y-value 6.39 dBm -45.95 dBm Function Function Result -61.21 dBm -56.35 dBm М3 М4 4/6

Date: 18.AUG.2022 16:11:29



Date: 18.AUG.2022 16:15:13



Test Method

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz to 120KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement ,Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

a) RBW = 1 MHz.

b) VBW ≥[3 × RBW].

c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D,where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows: 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels. 2) If linear voltage averaging mode was used in the preceding step e), then the correction

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factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels. 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Radiated emissions which fall in the restricted bands, as defined in section15.205 and RSS-GEN 8.10, must comply with the radiated emission limits specified in section 15.209.

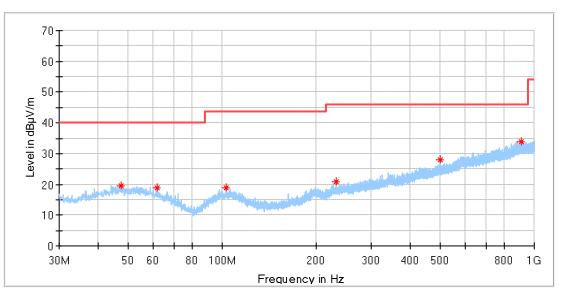
Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit. The only worse case (8DPSK mode) test result is listed in the report.

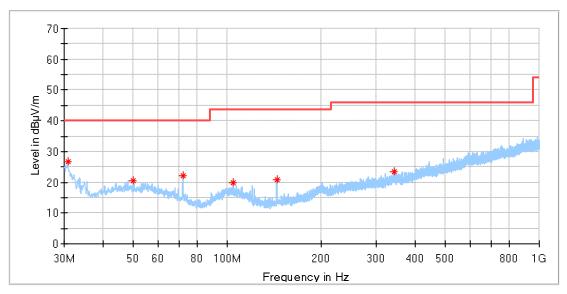
Transmitting spurious emission test result as below:

Below 1G:



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.399375	19.66	40.00	20.34	100.0	Н	0.0	20.76
61.828125	18.75	40.00	21.25	100.0	Н	51.0	19.57
103.235000	18.79	43.50	24.71	100.0	Н	180.0	19.41
231.032500	20.98	46.00	25.02	100.0	Н	9.0	19.94
499.783125	27.99	46.00	18.01	100.0	Н	331.0	26.14
906.091875	33.86	46.00	12.14	100.0	Н	0.0	32.48

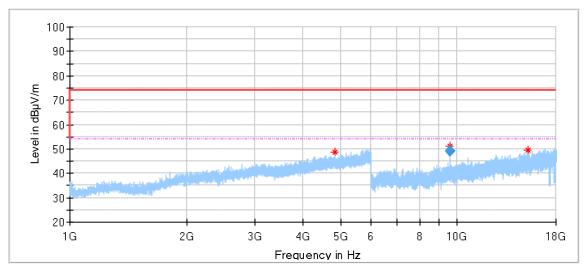




Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.848750	26.63	40.00	13.37	100.0	V	0.0	17.17
49.824375	20.62	40.00	19.38	100.0	V	116.0	21.02
71.952500	22.12	40.00	17.88	100.0	V	229.0	16.56
104.205000	19.73	43.50	23.77	100.0	V	58.0	19.34
144.035625	20.86	43.50	22.64	100.0	V	58.0	15.47
343.431250	23.54	46.00	22.46	200.0	V	0.0	23.30

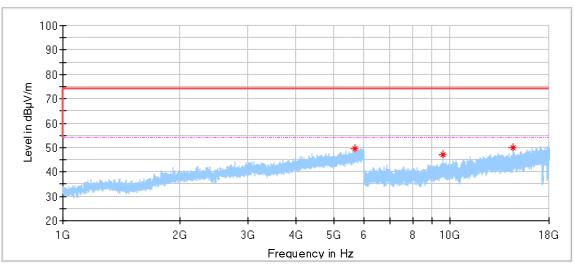


Low channel 2402MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4845.500000	48.60	74.00	25.40	150.0	Н	32.0	3.99
9609.000000	51.30	74.00	22.70	150.0	Н	80.0	12.21
15257.500000	49.47	74.00	24.53	150.0	Н	80.0	18.86

Final Result Average (dBµV/m) Height Limit Margin Pol Azimuth Corr. Frequency (dBµV/m) (MHz) (dB) (dB/m) (cm) (deg) 9609.000000 54.00 49.30 4.70 150.0 Н 80.0 12.21

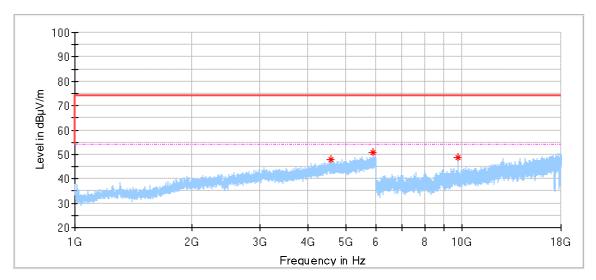


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5685.500000	49.52	74.00	24.48	150.0	V	178.0	5.62
9609.000000	47.10	74.00	26.90	150.0	V	313.0	12.21
14546.500000	49.91	74.00	24.09	150.0	V	49.0	16.75

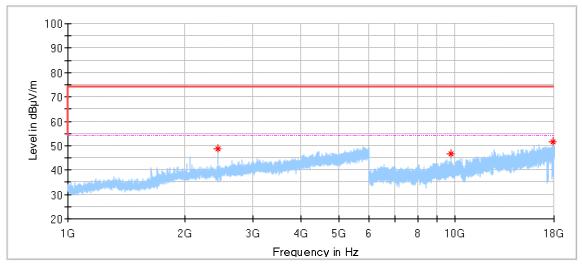
EMC_SZ_FR_23.01 FCC Release 2017-06-20 TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong 518052, China Tel. +86 755 8828 6998, Fax: +86 755 8828 5299



Middle channel 2441MHz

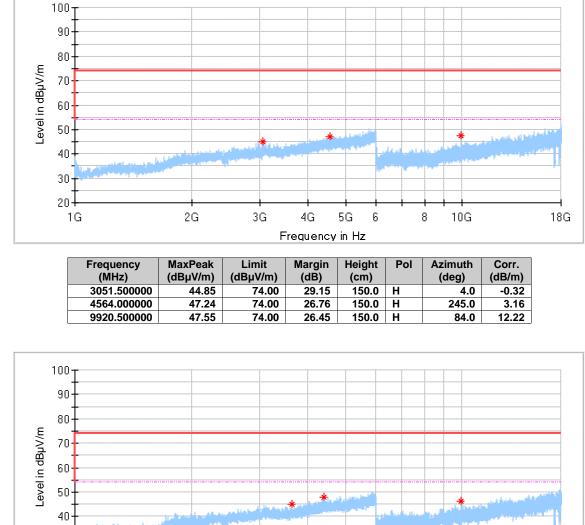


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4572.000000	47.96	74.00	26.04	150.0	Н	115.0	3.18
5883.500000	50.61	74.00	23.39	150.0	Н	95.0	6.53
9763.500000	48.67	74.00	25.33	150.0	Н	85.0	12.55

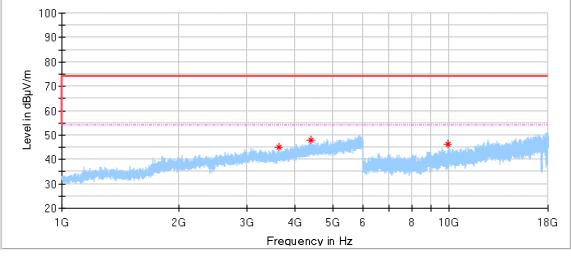


Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2443.000000	48.77	74.00	25.23	150.0	V	0.0	-2.54
9764.500000	46.81	74.00	27.19	150.0	V	269.0	12.55
17932.000000	51.68	74.00	22.32	150.0	V	26.0	22.28

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High channel 2480MHz



Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3628.000000	45.11	74.00	28.89	150.0	V	0.0	0.20
4385.000000	48.04	74.00	25.96	150.0	V	171.0	2.79
9920.500000	46.23	74.00	27.77	150.0	V	269.0	12.22

Remark:

- (1) Data of measurement within frequency range18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report,
- (2) Level= Reading Level + Correction Factor
- (3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain Below 1GHz: Corrector factor = Antenna Factor + Cable Loss (The Reading Level is recorded by software which is not shown in the sheet)



10 Test Equipment List

Conducted Emission Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 3	68-4-74-14-001	101782	1	2023-5-27
LISN	Rohde & Schwarz	ENV432	68-4-87-16-001	101318	1	2023-5-27
Attenuator	Shanghai Huaxiang	TS2-26-3	68-4-81-16-003	080928189	1	2023-5-27
Test software	Rohde & Schwarz	EMC32	68-4-90-14- 003-A10	Version 9.15.00	N/A	N/A
Shielding Room	TDK	CSR #1	68-4-90-19-004		1	2022-11-07

Radiated Emission Test 1#

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 7	68-4-74-19-001	102176	1	2023-5-27
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	68-4-80-14-002	707	1	2022-7-23
Pre-amplifier	Rohde & Schwarz	SCU 18	68-4-29-14-001	102230	1	2023-5-28
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-001	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #1	68-4-90-14-001		2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-14-001- A10	Version 10.35.02	N/A	N/A

Radiated Emission Test 2#

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2023-5-28
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2023-5-9
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2023-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2023-5-28
Sideband Horn Antenna	Q-PAR	QWH-SL-18- 40-K-SG	68-4-80-14-008	12827	1	2023-7-12
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2023-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006		2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006- A01	Version 10.35.02	N/A	N/A

RF Conducted Test

Description	Manufacturer	Model no.	Equipment ID	Serial no.	Cal interval (year)	Cal. due date
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2023-5-27



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty				
Test Items	Extended Uncertainty			
Uncertainty for Conducted Emission 150kHz-30MHz (for test using AMN ENV432)	3.71dB			
Uncertainty for Radiated Emission in 3m chamber (68-	Horizontal: 4.68dB;			
4-90-14-001)30MHz-1000MHz	Vertical: 4.65dB;			
Uncertainty for Radiated Emission in new 3m chamber	Horizontal: 4.76dB;			
(68-4-90-19-006) 1000MHz-18000MHz	Vertical: 4.75dB;			
Uncertainty for Radiated Emission 18000MHz-	Horizontal: 4.51dB;			
40000MHz	Vertical: 4.50dB			
	RF Power Conducted: 1.27dB			
Uncertainty for Conducted RF test with TS 8997	Frequency test involved:			
	0.6×10 ⁻⁷ or 1%			

Measurement Uncertainty Decision Rule

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, clause 4.4.3 and 4.5.1.

---THE END OF REPORT---