
FCC Test Report

Report No.: AGC09691260103FR02

FCC ID : 2AHMB-50201M

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : Modular Full-Duplex Wireless Intercom System

BRAND NAME : Saramonic

MODEL NAME : WiTalk9 X-DMH, WiTalk9 X-SMH, WiTalk9 X-HMH

APPLICANT : Shenzhen DSQN Investment Co., Ltd

DATE OF ISSUE : May 11, 2026

STANDARD(S) : FCC Part 15 Subpart D §15.323

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	/	May 11, 2026	Valid	Initial Release

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1. General Information

Applicant	Shenzhen DSQN Investment Co., Ltd
Address	Room 2205,2206,2207,Tower 11,Phase II (Plot 02-08),Tianan Cloud Park,Gangt ou,Bantian Street, Longgang District, Shenzhen, China
Manufacturer	Shenzhen Jiayz photo industrial ., Ltd
Address	A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China
Factory	Shenzhen Jiayz photo industrial ., Ltd
Address	A16 Building, Intelligent Terminal Industrial Park of Silicon Valley Power, Guanlan, Longhua District, Shenzhen, China
Product Designation	Modular Full-Duplex Wireless Intercom System
Brand Name	Saramonic
Test Model	WiTalk9 X-DMH
Series Model	WiTalk9 X-SMH, WiTalk9 X-HMH
Difference Description	All the same except for the model name
Date of receipt of test item	Mar. 23, 2026
Date of Test	Mar. 23, 2026~May 09, 2026
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-DECT-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By

Jack Gui

Jack Gui
(Project Engineer)

May 11, 2026

Reviewed By

Bibo Zhang

Bibo Zhang
(Reviewer)

May 11, 2026

Approved By

Angela Li

Angela Li
(Authorized Officer)

May 11, 2026

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2. Product Information

2.1 Product Technical Description

Equipment Type	Portable Part (PP)*
Frequency Band	1920 MHz to 1930 MHz
Operation Frequency Range	1921.536 MHz to 1928.448 MHz
Hardware Version	V1.1
Software Version	V0.37
Type of Modulation	Digital (Gaussian Frequency Shift Keying)
Modulation Technique	GFSK
Number of channels	5 RF Channels, $5 \times 12 = 60$ TDMA Duplex Channels
Channel Separation	1728 kHz
Emission Designator	F7D
Maximum Transmitter Power	ANT1: 20.95dBm for conducted power 22.95dBm for EIRP ANT2: 20.95dBm for conducted power 21.45dBm for EIRP
Antenna Designation	Ant 1: PIFA Antenna Ant 2: Dipole antenna
Antenna Gain	Ant 1: 2.0dBi Ant 2: 0.5dBi
Power Supply	DC 3.7V by battery or DC 5V by adapter

Note: "*" indicates that this device is Hybrid Part (HyP) (a PP with capability to act as a FP to provide PP to PP communication).

2.2 Test Frequency List

Frequency Band	Channel Number	Frequency
1920~1930MHz	0	1928.448 MHz
	1	1926.720 MHz
	2	1924.992 MHz
	3	1923.264 MHz
	4	1921.536 MHz

Note: All channels operation in the 1920-1930 MHz band, meeting the requirement of FCC 47 CFR Part 15.303

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2.3 Related Submittal(S) / Grant (S)

This submittal(s) (test report) is intended for FCC ID: **2AHMB-50201M**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 Test Methodology

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2020+Cor.1-2023	American National Standard for Testing Unlicensed Wireless Devices
5	ANSI C63.17-2013	American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices

2.5 Automatic Discontinuation of Transmission

Does the EUT transmit Control and Signaling Information?

☒ Yes	☐ No
---	-----------------------------

Type of EUT:

☐ Initiating Device	☒ Responding Device
--	---

The following tests simulate the reaction of the EUT in case of either absence of information to transmit or operational failure after a connection with the companion device is established.

No.	Test	EUT Reaction	Results
1	Power removed: EUT	A	Pass
2	Switch Off: EUT	N/A	Pass
3	Hook-On: EUT	N/A	Pass
4	Power Removed: Companion Device	B	Pass
5	Switch Off: Companion Device	B	Pass
6	Hook-On: Companion Device	B	Pass

Note:

A - Connection breakdown, Cease of all transmissions
B - Connection breakdown, EUT transmits control and signaling information
C - Connection breakdown, Companion Device transmits control and signaling information
N/A : Not Applicable (EUT does not have On/Off switch and cannot perform Hook-On)

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2.6 Digital Modulation Techniques

The test sample is an isochronous digital modulated device that operates in 1920-1930 MHz band. This device bases on DECT technology described in European Standards EN 300 175-2 and EN 300 175-3, now operating in frequency channels mentioned above.

The operating modes are MC/TDMA/TDD (Multi carrier / Time Division Multiple Access / Time Division Duplex) using Digital GFSK (Gaussian Frequency Shift Keying) modulation.

For further details see operational description provided by manufacturer.

2.7 Special Accessories

Not available for this EUT intended for grant.

2.8 Equipment Modifications

Not available for this EUT intended for grant.

2.9 Antenna Requirement

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
EUT Antenna 1: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 2.0dBi.
EUT Antenna 2: The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0.5dBi.

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3. Test Environment

3.1 Address of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 101 & 201, Building 19(B5), Junfeng Industrial Park, Chongqing Road, P.R.C.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 Environmental Conditions

	Normal Conditions	Extreme Conditions
Temperature range (°C)	15 - 35	-20 - 45
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	DC 3.7V	LV DC 3.15V/HV DC 4.20V

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 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%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 2.9 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 3.9 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.9 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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3.5 List of Equipment Used

● RF Conducted Test System							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-ER-E087	Spectrum Analyzer	KEYSIGHT	N9020B	MY56101792	2025-05-08	2026-05-07
☒	AGC-ER-E087	Spectrum Analyzer	KEYSIGHT	N9020B	MY56101792	2026-05-06	2027-05-05
☒	AGC-ER-E075	Small Environmental Tester	SH-242	ESPEC	93008290	2024-07-24	2026-07-23
☒	AGC-ER-A004	Power Splitter	Agilent	11667B	N/A	2025-05-08	2027-05-07
☐	--	Universal Switch Control Unit	Tonscend	JS	N/A	N/A	N/A
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2025-05-08	2026-05-07
☒	AGC-ER-E037	Signal Generator	Agilent	N5182A	MY50140530	2026-05-06	2027-05-05
☐	AGC-ER-E040	Signal Generator	Agilent	N8257D	MY45141029	2025-07-18	2027-07-18
☒	AGC-ER-E033	RF Test Plat (DECT)	RTX	RTX-2012-HS-RF	N/A	2024-07-24	2026-07-23
☒	--	RF Connection Cable	N/A	1#	N/A	Each time	N/A
☒	--	RF Connection Cable	N/A	2#	N/A	Each time	N/A

● Radiated Spurious Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-E116	EMI Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2025-05-08	2026-05-07
☒	AGC-EM-E061	Spectrum Analyzer	Agilent	N9010A	MY53470504	2026-05-06	2027-05-05
☒	AGC-EM-E086	Loop Antenna	ZHINAN	ZN30900C	18051	2024-03-05	2026-03-04
☒	AGC-EM-E005	Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	2025-01-15	2027-01-14
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2025-05-18	2026-05-17
☒	AGC-EM-E102	Broadband Ridged Horn Antenna	ETS	3117	00154520	2026-05-06	2027-05-05
☐	AGC-EM-E082	Horn Antenna	SCHWARZBECK	BBHA 9170	#768	2025-09-10	2027-09-09
☒	AGC-EM-E146	Pre-amplifier	ETS	3117-PA	00246148	2024-07-24	2026-07-23
☒	AGC-EM-A116	Band Stop Filter (1850-1950MHz)	MICRO-TRONICS	BRC50720	N/A	2025-05-21	2026-05-20
☒	AGC-EM-A091	High Pass Filter 2 (1200-18000MHz)	N/A	N/A	N/A	2025-05-21	2026-05-20
☒	AGC-EM-A138	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A
☐	AGC-EM-A139	6dB Attenuator	Eeatsheep	LM-XX-6-5W	N/A	N/A	N/A

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● AC Power Line Conducted Emission							
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
☒	AGC-EM-A171	Attenuator	Mini-Circuits	UNAT-10A+	N/A	2026-01-13	2028-01-12
☒	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2025-05-08	2026-05-07
☒	AGC-EM-E023	Artificial Mains Network	R&S	ESH2-Z5	100086	2026-05-06	2027-05-05
☒	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2025-05-08	2026-05-07
☒	AGC-EM-E116	Test Receiver	R&S	ESCI	100034	2026-05-06	2027-05-05

● Test Software					
Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Version Information
☒	AGC-EM-S011	RSE Test System	Tonscend	TS+ Ver2.1(JS36-RSE)	4.0.0.0
☐	AGC-EM-S003	RE Test System	FARA	EZ-EMC	V.RA-03A
☒	AGC-EM-S001	CE Test System	R&S	ES-K1	V1.71

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4. System Test Configuration

4.1 EUT Configuration

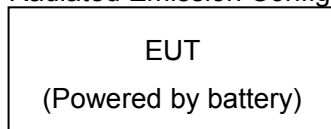
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT Exercise

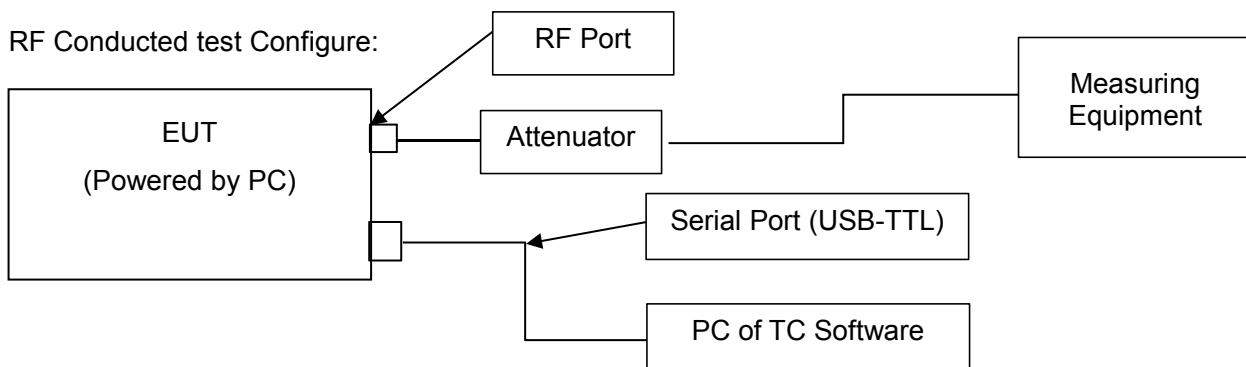
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 Configuration of Tested System

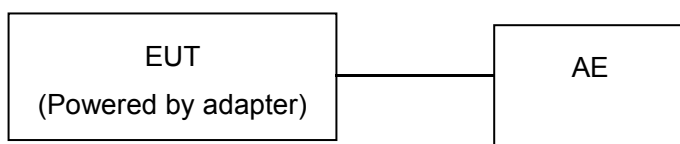
Radiated Emission Configure:



RF Conducted test Configure:



AC Power Line Conducted Emission Configure:



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4.4 Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

☒ Test Accessories Come From The Laboratory

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Adapter	Apple	A2452	USB-C/140W	1.0m unshielded
2	Control Box	RISYM	USB-TTL	--	--

☒ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1	Battery	DONGGUAN XINDIAN POWER SOURCE CO.,LTD	WiTalk9 X-BP1	DC 3.7V 1000mAh	--

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4.5 Summary of Test Results

No.	FCC Rules	Description of Test	Reference Method	Result
1	§15.203, §15.317	Antenna Equipment	Declaration & Visual inspection	Pass
2	§15.323 (c)(e)	Specific Requirements for Upcs Device	ANSI C63.17-2013 Clause 6.2, 7.3, 7.5, 8.1, 8.2, 8.3, 8.4 and Paragraph 4	Pass
3	§15.303	Channel Frequency	Declaration	Pass
4	§15.319 (b)	Digital Modulation Techniques	Declaration	Pass
5	§15.319 (f)	Automatic Discontinuation of Transmission	Manual evaluation	Pass
6	§15.319(c)(e), §15.31(e)	Peak Transmit Power and Antenna Gain	ANSI C63.17-2013 Clause 6.1.2	Pass
7	§15.323 (a)	26dB Emission Bandwidth & 99% Occupied Bandwidth	ANSI C63.17-2013 Clause 6.1.3 or 7.4	Pass
8	§15.319 (d)	Power Spectral Density	ANSI C63.17-2013 Clause 6.1.5	Pass
9	§15.323 (d)	In-Band Emission	ANSI C63.17-2013 Clause 6.1.6.1	Pass
10	§15.323 (d)	Out-of-Band Emission	ANSI C63.17-2013 Clause 6.1.6.2	Pass
11	§15.323 (f)	Carrier Frequency Stability	ANSI C63.17-2013 Clause 6.2.1	Pass
12	§15.319(g), §15.323(d) §15.209(a), §15.109(a)	Radiated Emission	ANSI C63.10-2020+Cor.1-2023 Clause 11.11 & Clause 11.12	Pass
13	§15.207, §15.315	AC Power Line Conducted Emission	ANSI C63.10-2020+Cor.1-2023 Section 6.2	Pass

Note:

- 1) N/A: In this whole report not applicable.
- 2) Not required if the Conducted Out-of-Band Emissions test is passed, and assessed in the FCC 47 CFR Part 15B test report.

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5. Description of Test Modes

Summary table of Test Cases	
Test Item	Modulation
	DECT- Portable Part /GFSK
Radiated Test Cases	Mode 1: UPCS TX CH00_1928.448 MHz (Battery powered) Mode 2: UPCS TX CH02_1924.992 MHz (Battery powered) Mode 3: UPCS TX CH04_1921.536 MHz (Battery powered) Mode 4: Normal Pairing Communication (GAP Mode)+ Battery powered
Conducted Test Cases	Mode 1: UPCS TX CH00_1928.448 MHz (Connect the PC) Mode 2: UPCS TX CH02_1924.992 MHz (Connect the PC) Mode 3: UPCS TX CH04_1921.536 MHz (Connect the PC) Mode 4: Normal Pairing Communication (GAP Mode)+ PC
AC Conducted Emission	Mode 1: Normal Pairing Communication (GAP Mode) + Battery + AC/DC Adapter

Note:

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

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6. 26dB Emission Bandwidth & 99% Occupied Bandwidth

6.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(c) & 15.319(e) for specification details :

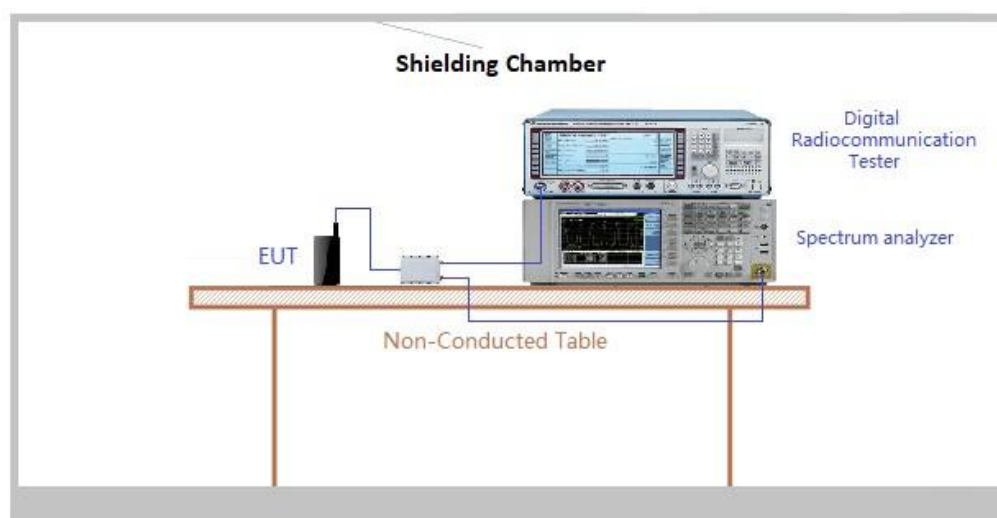
Operation shall be contained within the 1920–1930 MHz band. The emission bandwidth shall be less than 2.5 MHz. The power level shall be as specified in § 15.319(c), but in no event shall the emission bandwidth be less than 50 kHz

6.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.2

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
2. The EUT shall transmit in a burst mode (shall not be configured to transmit continuously) so that transient effects associated with the burst edges are captured by the emission bandwidth measurement.
3. Use the following spectrum analyzer settings:
 - a) Set RBW: Approximately 1% of the emission bandwidth (a rough estimate may be obtained from peak power level measurement, or use manufacturer's declared value).
 - b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
 - c) Center frequency: Nominal center frequency of channel.
 - d) Span: $\geq 2 \times$ the expected emission bandwidth.
 - e) Sweep time: Coupled to frequency span and RBW.
 - f) Amplitude scale: Log.
 - g) Detection: Peak detection with maximum hold enabled.
4. Record the maximum level of the modulated carrier. Find the two furthest frequencies above and below the frequency of the maximum level of the modulated carrier where the signal level is 26 dB below the peak level of the carrier. The difference in frequency between these two frequencies is the emission bandwidth

6.3 Measurement Setup (Block Diagram of Configuration)



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6.4 Measurement Result

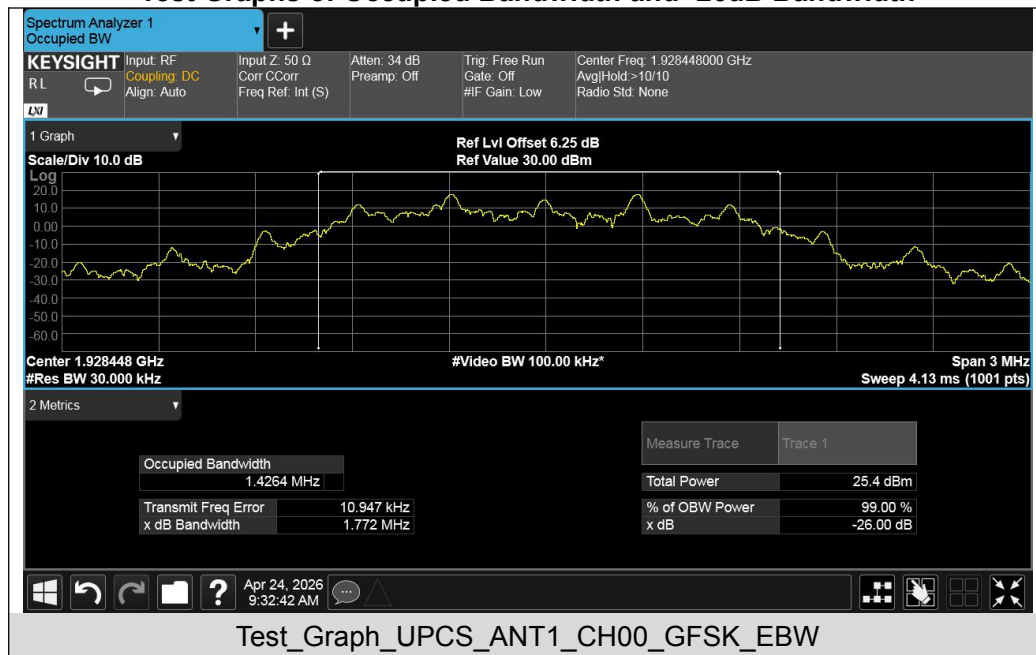
- For Antenna 1

Test Channel	Test Frequency (MHz)	Occupied Bandwidth (MHz)	EBW (MHz)	EBW Limits	Pass or Fail
0	1928.448	1.4264	1.772	50 kHz<Limits<2.5MHz	Pass
2	1924.992	1.4199	1.770	50 kHz<Limits<2.5MHz	Pass
4	1921.536	1.4319	1.773	50 kHz<Limits<2.5MHz	Pass

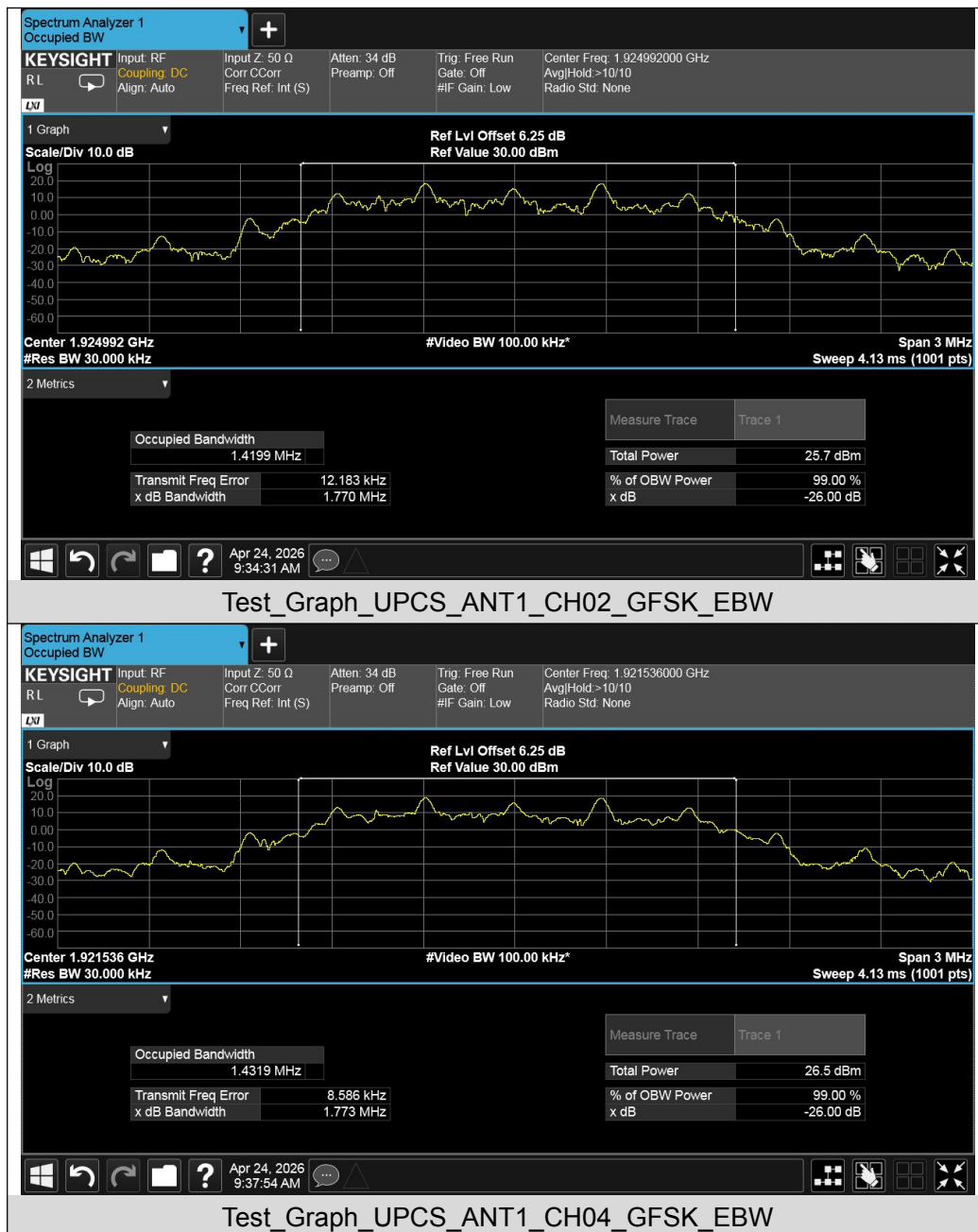
- For Antenna 2

Test Channel	Test Frequency (MHz)	Occupied Bandwidth (MHz)	EBW (MHz)	EBW Limits	Pass or Fail
0	1928.448	1.4416	1.773	50 kHz<Limits<2.5MHz	Pass
2	1924.992	1.4299	1.773	50 kHz<Limits<2.5MHz	Pass
4	1921.536	1.4252	1.773	50 kHz<Limits<2.5MHz	Pass

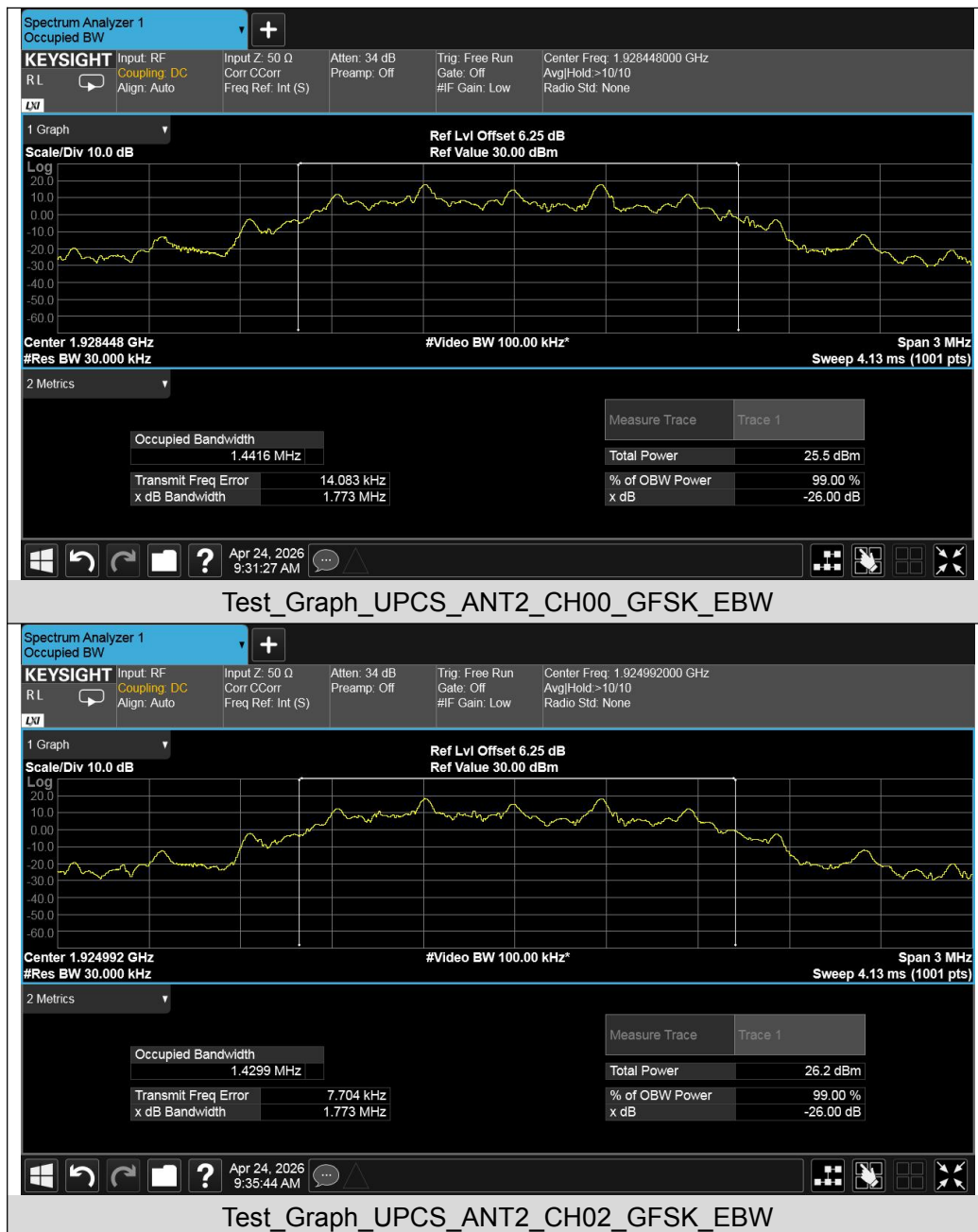
Test Graphs of Occupied Bandwidth and -26dB Bandwidth



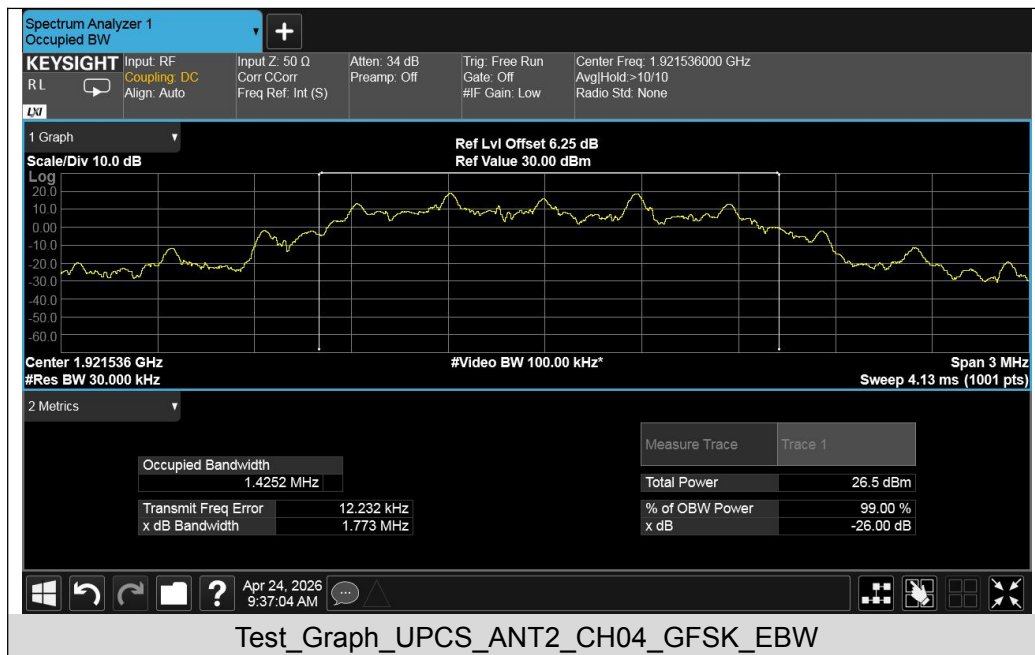
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7. Peak Transmit Power and Antenna Gain

7.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(c) & 15.319(e) for specification details :

Peak transmit power shall not exceed 100 microwatts multiplied by the square root of the emission bandwidth in hertz. Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

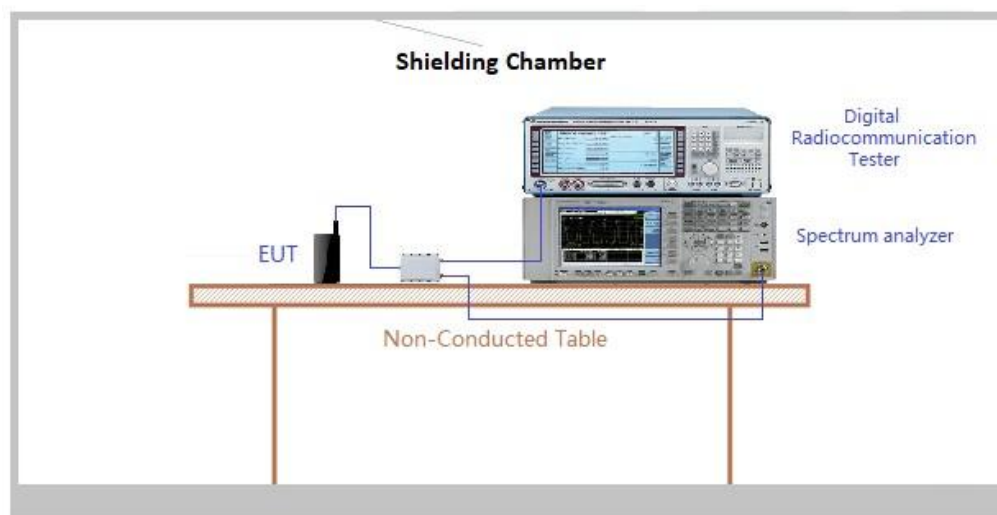
The peak transmit power shall be reduced by the amount in decibels that the maximum directional gain of the antenna exceeds 3 dBi.

7.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.2

RBW	≥ Emission bandwidth
Video bandwidth	≥ RBW
Span	Span Zero
Center frequency	Nominal center frequency of transmit carrier
Amplitude scale	Log (linear may be used if analyzer has sufficient linear dynamic range and accuracy)
Detection	Peak detection
Trigger Video	Trigger Video
Sweep rate	Sufficiently rapid to permit the transmit pulse to be resolved accurately

7.3 Measurement Setup (Block Diagram of Configuration)



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7.4 Measurement Result

- For Antenna 1

Calculation of Peak Transmit Power Limit ($P_{\max}$):		
☒	$P_{\max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{\max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 2.0dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{\max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{\max} + G_A, G_A \leq g (g=3\text{dBi})$

Test Channel	Test Frequency (MHz)	Maximum Antenna Gain (dBi)	EBW (MHz)	Maximum Conducted Peak Transmit Power (dBm)	Limits (dBm)	Pass / Fail
0	1928.448	2.0	1.772	20.09	≤ 21.24	Pass
2	1924.992		1.770	20.55	≤ 21.24	Pass
4	1921.536		1.773	20.95	≤ 21.24	Pass

Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Transmit Power (dBm)	Maximum Antenna Gain (dBi)	E.I.R.P. (dBm)	Limits (dBm)	Pass / Fail
0	1928.448	20.09	2.0	22.09	≤ 23.24	Pass
2	1924.992	20.55		22.55	≤ 23.24	Pass
4	1921.536	20.95		22.95	≤ 23.24	Pass

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● For Antenna 2

Calculation of Peak Transmit Power Limit ($P_{\max}$):		
☒	$P_{\max} = 5 \cdot \log_{10} B - 10$	When $G_A \leq 3\text{dBi}$
☐	$P_{\max} = 5 \cdot \log_{10} B - 10 \text{ dBm} - (G_A - 3\text{dBi})$	When $G_A > 3\text{dBi}$
Where,	G_A	= EUT Gain: 0.5 dBi
	B	= Measured Emission Bandwidth (Hz)
Calculation of EIRP Limit:		
☐	EIRP_{EUT}	$\leq P_{\max} + g, G_A > g (g=3\text{dBi})$
☒	EIRP_{EUT}	$\leq P_{\max} + G_A, G_A \leq g (g=3\text{dBi})$

Test Channel	Test Frequency (MHz)	Maximum Antenna Gain (dBi)	EBW (MHz)	Maximum Conducted Peak Transmit Power (dBm)	Limits (dBm)	Pass / Fail
0	1928.448	0.5	1.773	20.04	≤ 21.24	Pass
2	1924.992		1.773	20.49	≤ 21.24	Pass
4	1921.536		1.773	20.95	≤ 21.24	Pass

Test Channel	Test Frequency (MHz)	Maximum Conducted Peak Transmit Power (dBm)	Maximum Antenna Gain (dBi)	E.I.R.P. (dBm)	Limits (dBm)	Pass / Fail
0	1928.448	20.04	0.5	20.54	≤ 23.24	Pass
2	1924.992	20.49		20.99	≤ 23.24	Pass
4	1921.536	20.95		21.45	≤ 23.24	Pass

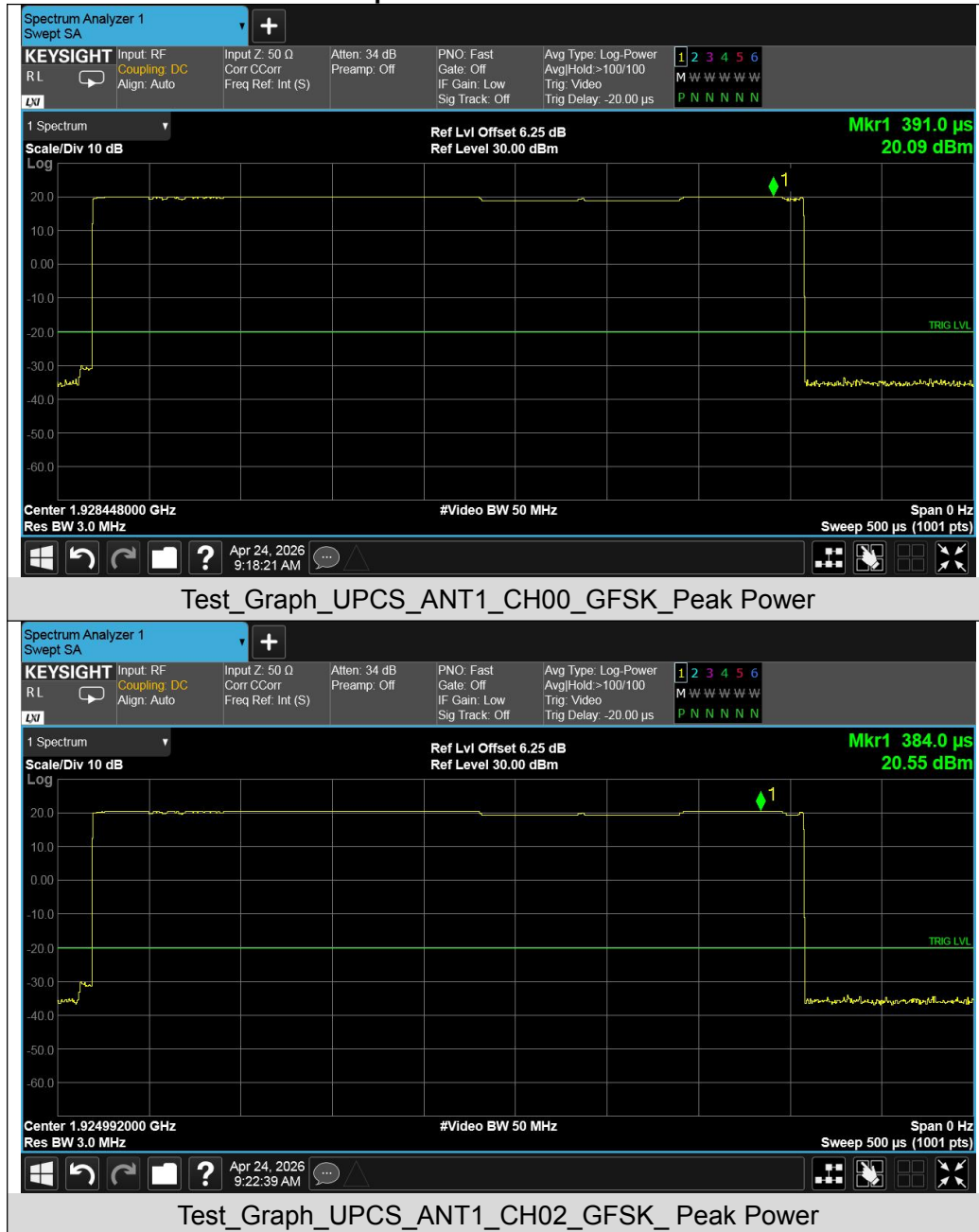
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Test Graphs of Peak Transmit Power

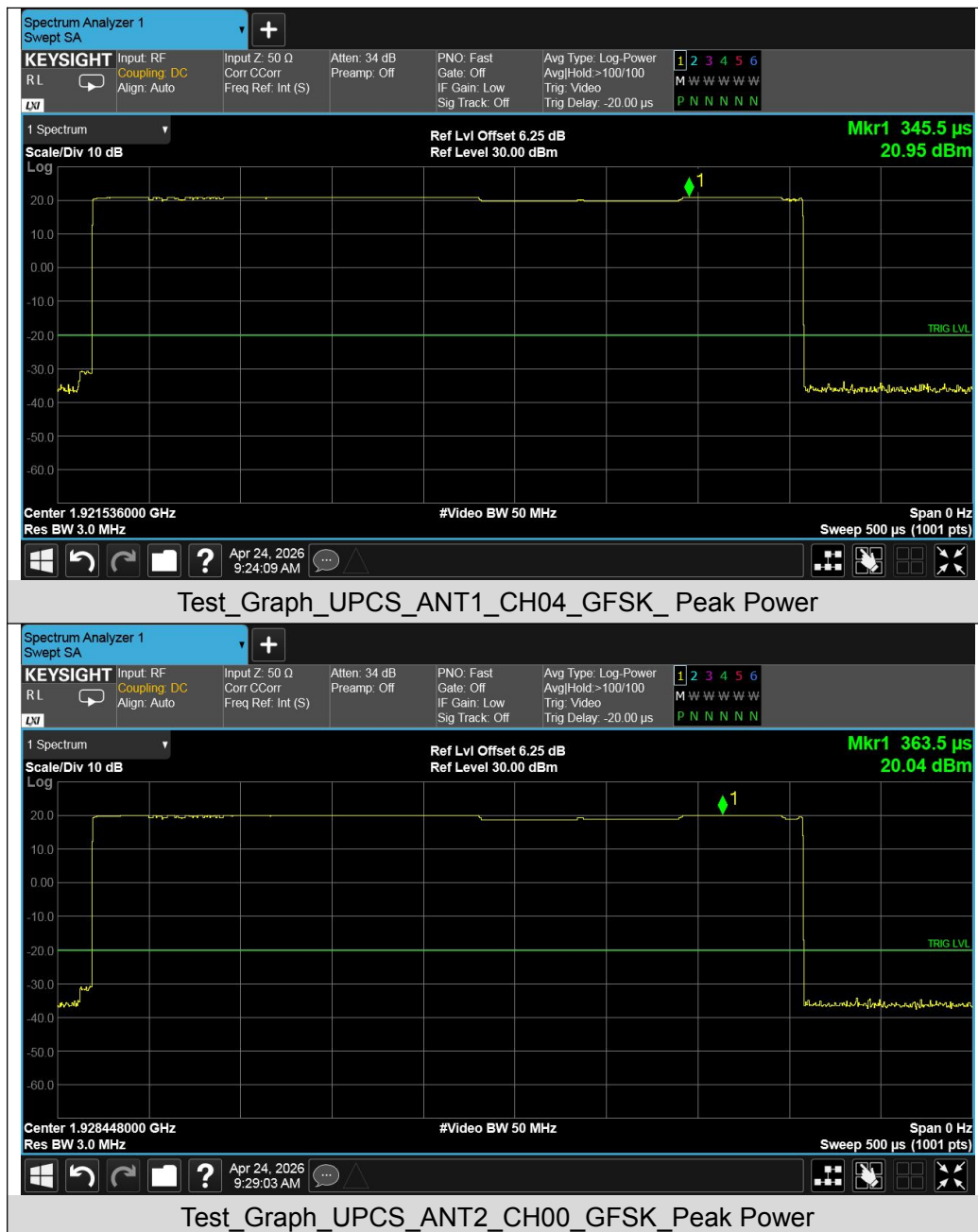


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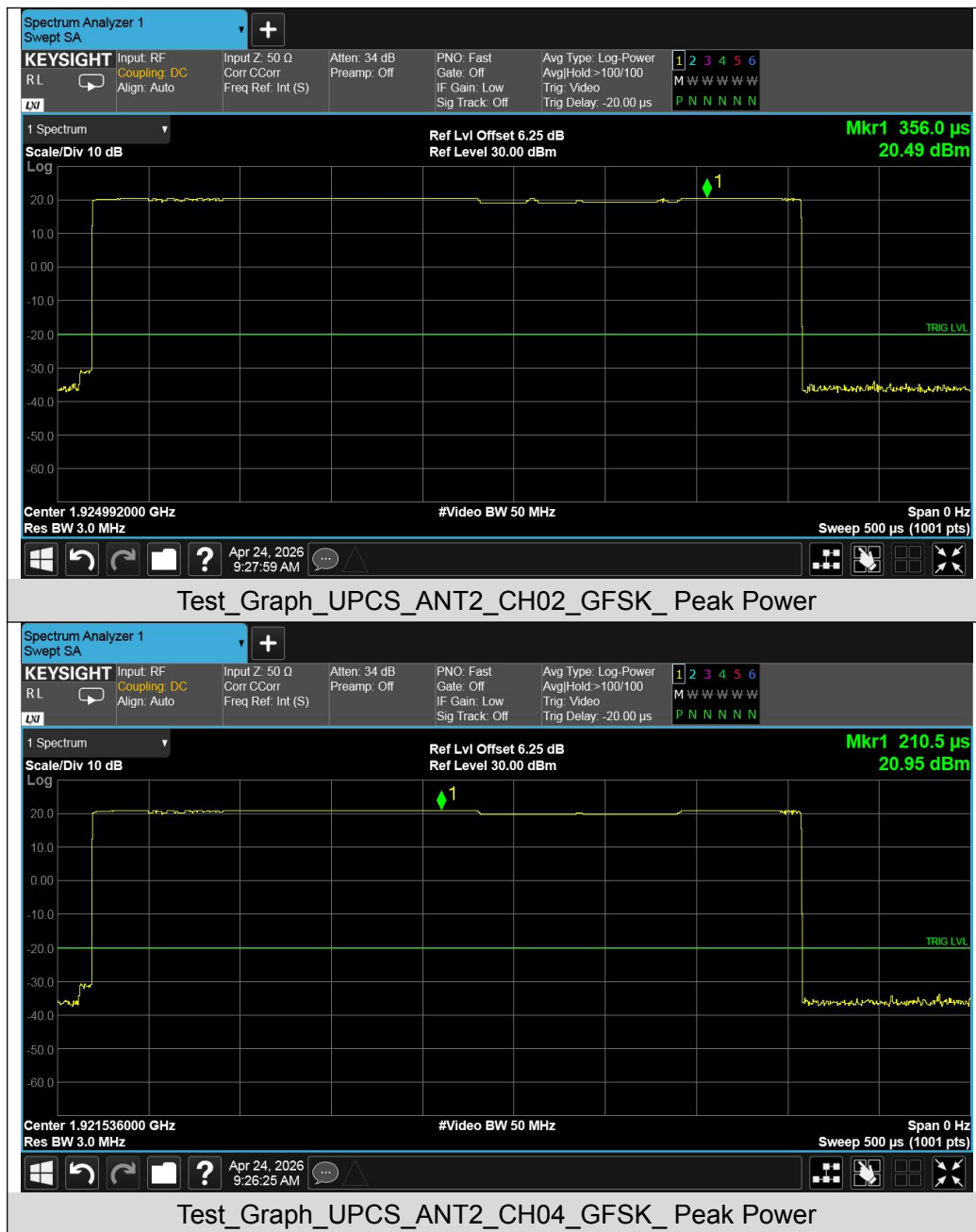
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8. Power Spectral Density

8.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.319(d) for specification details :

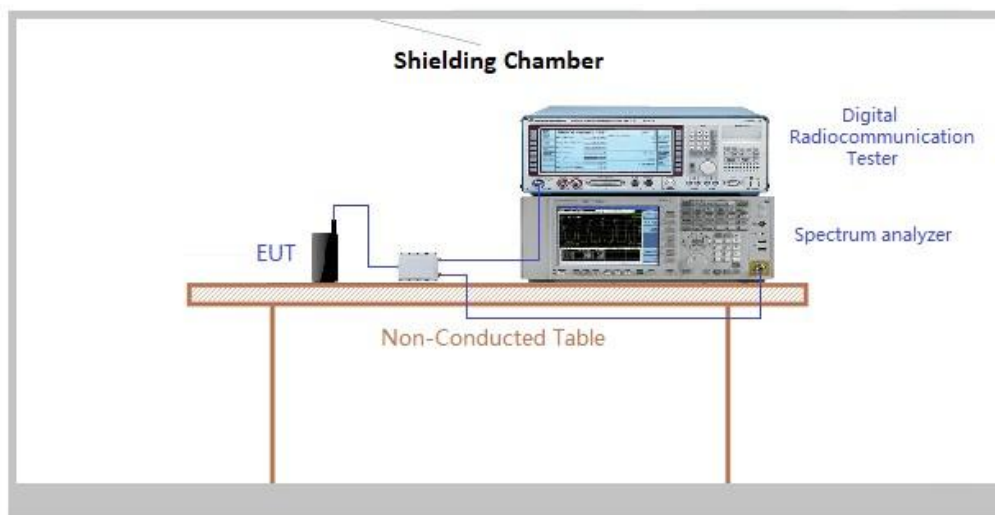
Power spectral density shall not exceed 3 milliwatts in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

8.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.5

RBW	3 kHz
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Span Zero
Center frequency	Nominal center frequency of transmit carrier
Amplitude scale	RMS
Detection	Sample detection and averaged for a minimum of 100 sweeps
Trigger Video	External or internal
Sweep Time	For burst signals, sufficient to include essentially all of the maximum length burst at the output of a 3 kHz filter (e.g., maximum input burst duration plus 600 μ s). For continuous signals, 20ms.

8.2 Measurement Setup (Block Diagram of Configuration)



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8.3 Measurement Result

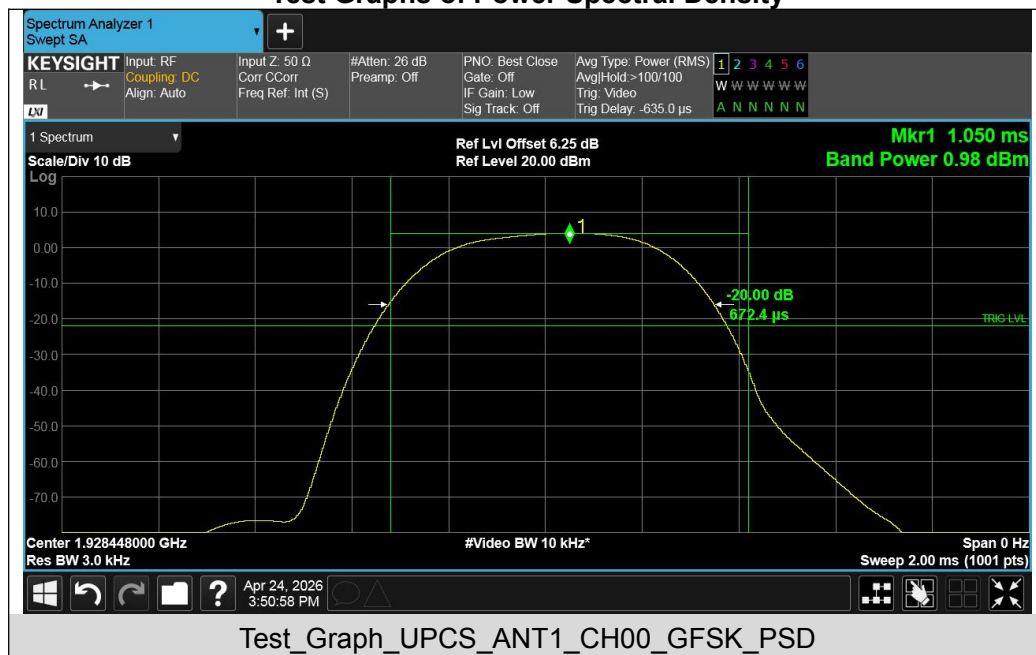
- For Antenna 1

Test Channel	Test Frequency (MHz)	Power density (dBm/3kHz)	Power density (mW/3kHz)	Limit (mW/3kHz)	Pass or Fail
0	1928.448	0.98	1.25	≤ 3	Pass
2	1924.992	1.30	1.35	≤ 3	Pass
4	1921.536	2.35	1.72	≤ 3	Pass

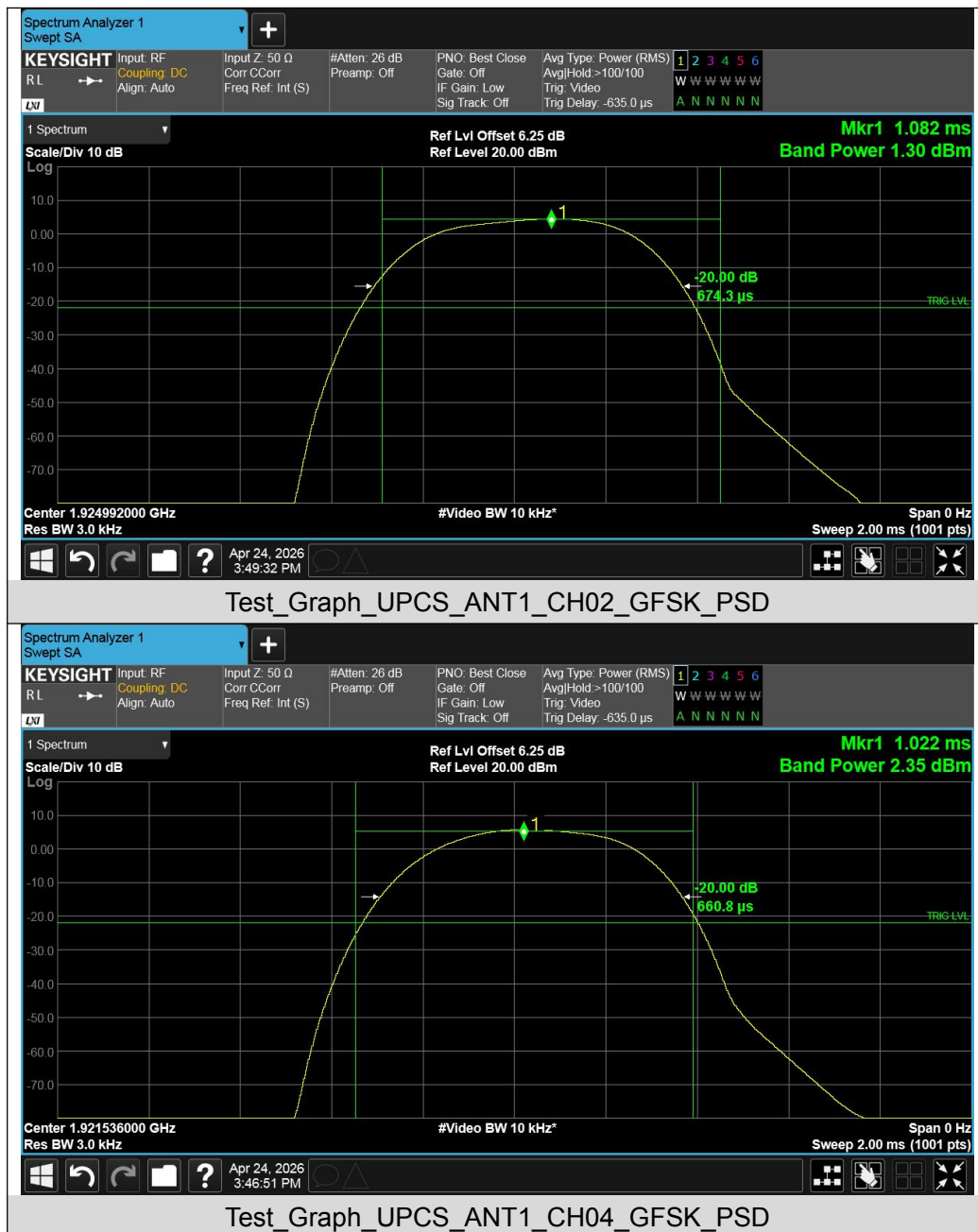
- For Antenna 2

Test Channel	Test Frequency (MHz)	Power density (dBm/3kHz)	Power density (mW/3kHz)	Limit (mW/3kHz)	Pass or Fail
0	1928.448	0.84	1.21	≤ 3	Pass
2	1924.992	1.27	1.34	≤ 3	Pass
4	1921.536	2.06	1.61	≤ 3	Pass

Test Graphs of Power Spectral Density

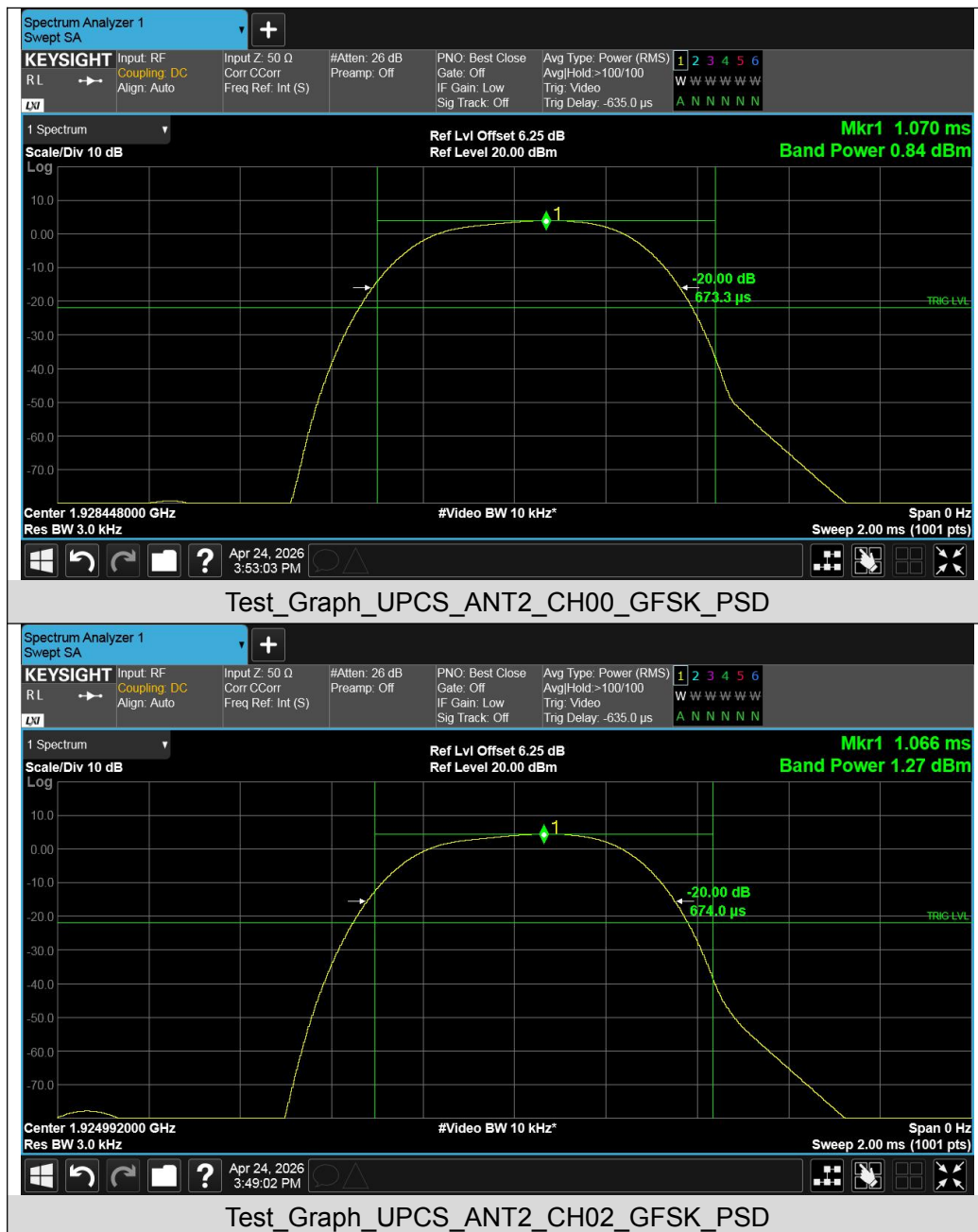


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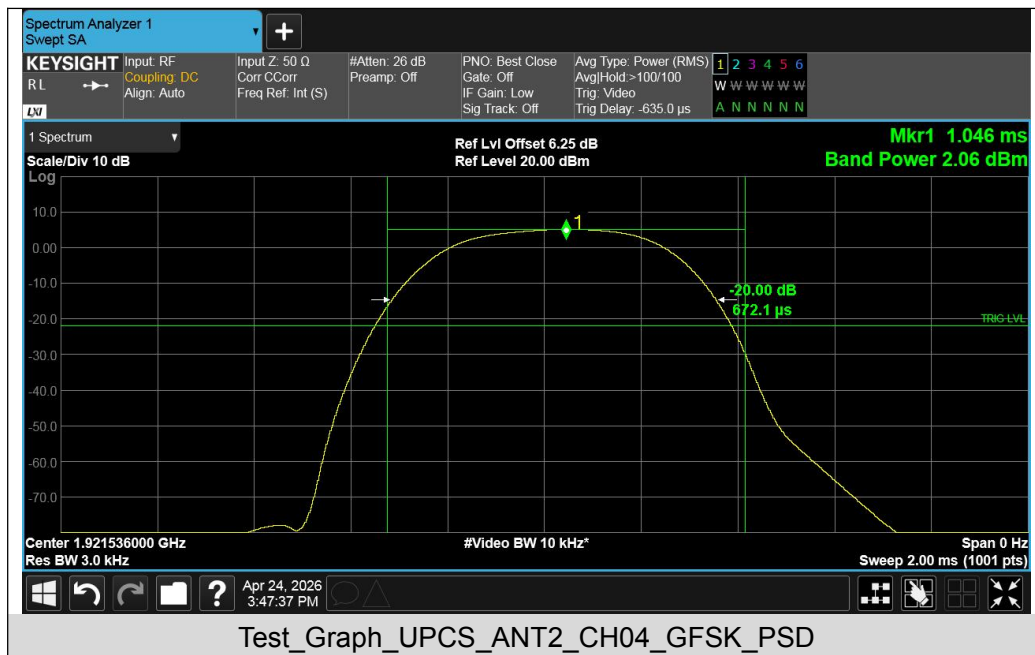
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9. In-Band Unwanted Emissions

9.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.323(d) for specification details :

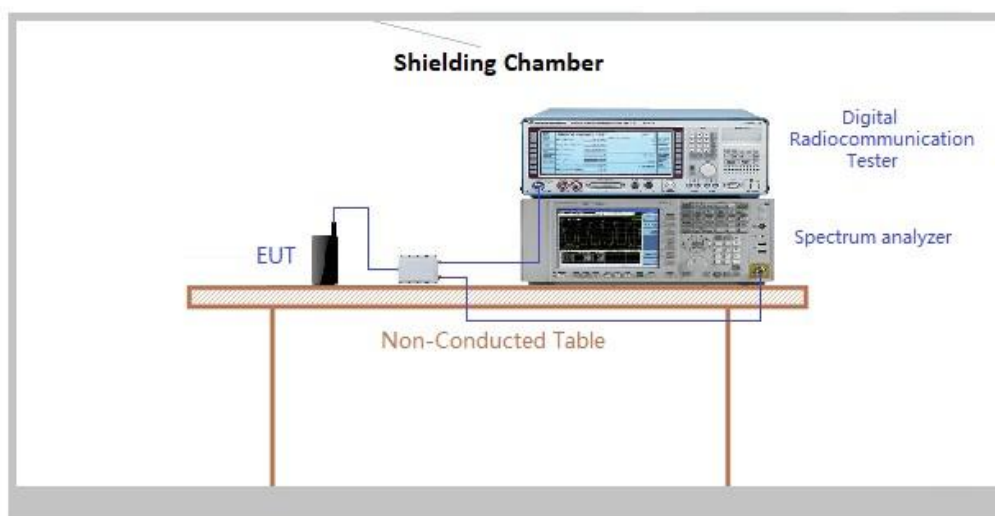
Emissions inside the band must comply with the following emission mask: In the bands between 1B and 2B measured from the center of the emission bandwidth the total power emitted by the device shall be at least 30 dB below the transmit power permitted for that device; in the bands between 2B and 3B measured from the center of the emission bandwidth the total power emitted by an intentional radiator shall be at least 50 dB below the transmit power permitted for that radiator; in the bands between 3B and the band edge the total power emitted by an intentional radiator in the measurement bandwidth shall be at least 60 dB below the transmit power permitted for that radiator. B” is defined as the emission bandwidth of the device in hertz. Compliance with the emission limits is based on the use of measurement instrumentation employing peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

9.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.6.1

RBW	Approximately 1% of the Emission bandwidth (B)
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Approximately equal to 3.5 B
Center frequency	Nominal center frequency of transmit carrier
Detection	Peak detection and max hold enabled
Amplitude scale	Log
Sweep Time	The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts.
Number of sweeps	Sufficient to stabilize the trace

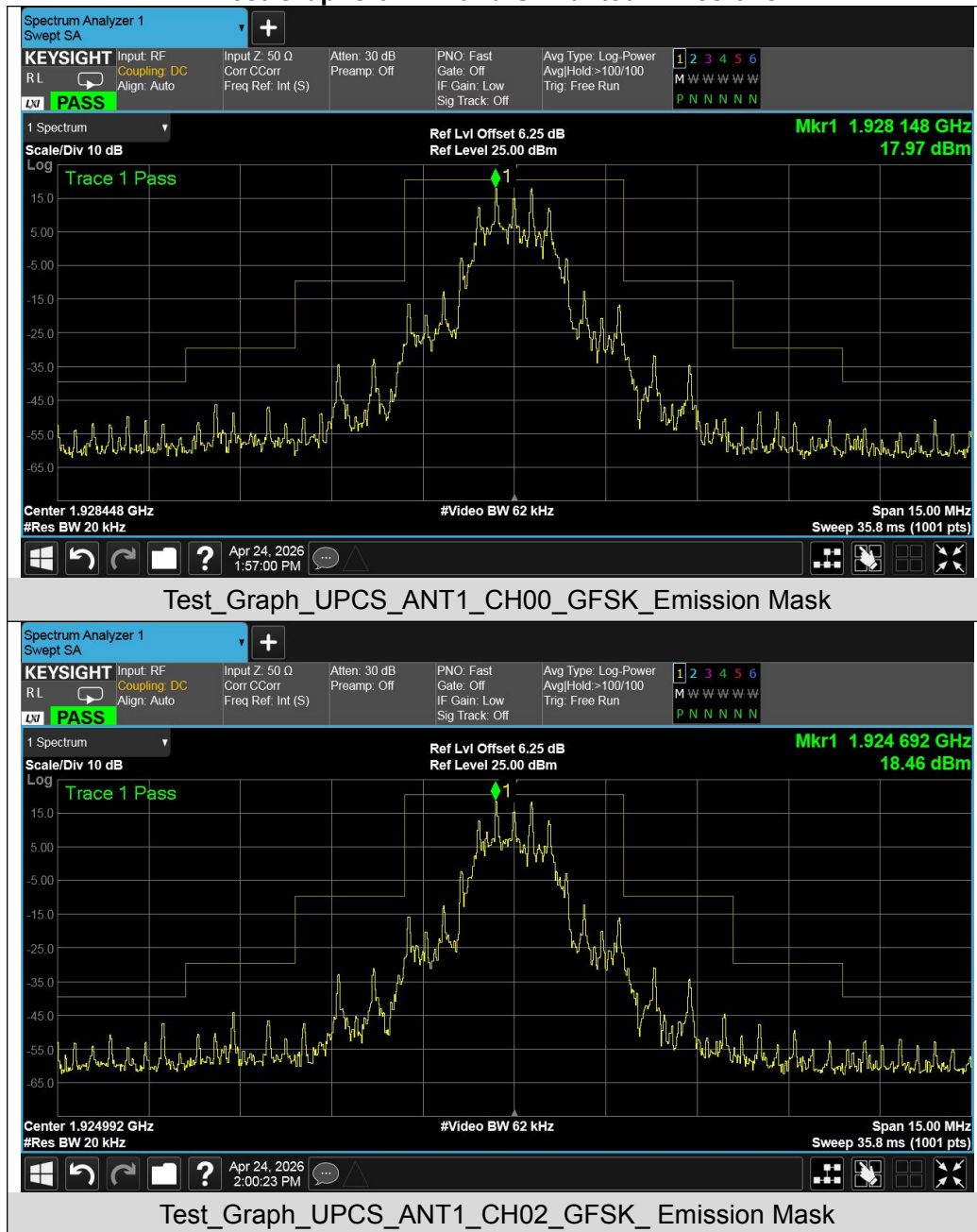
9.3 Measurement Setup (Block Diagram of Configuration)



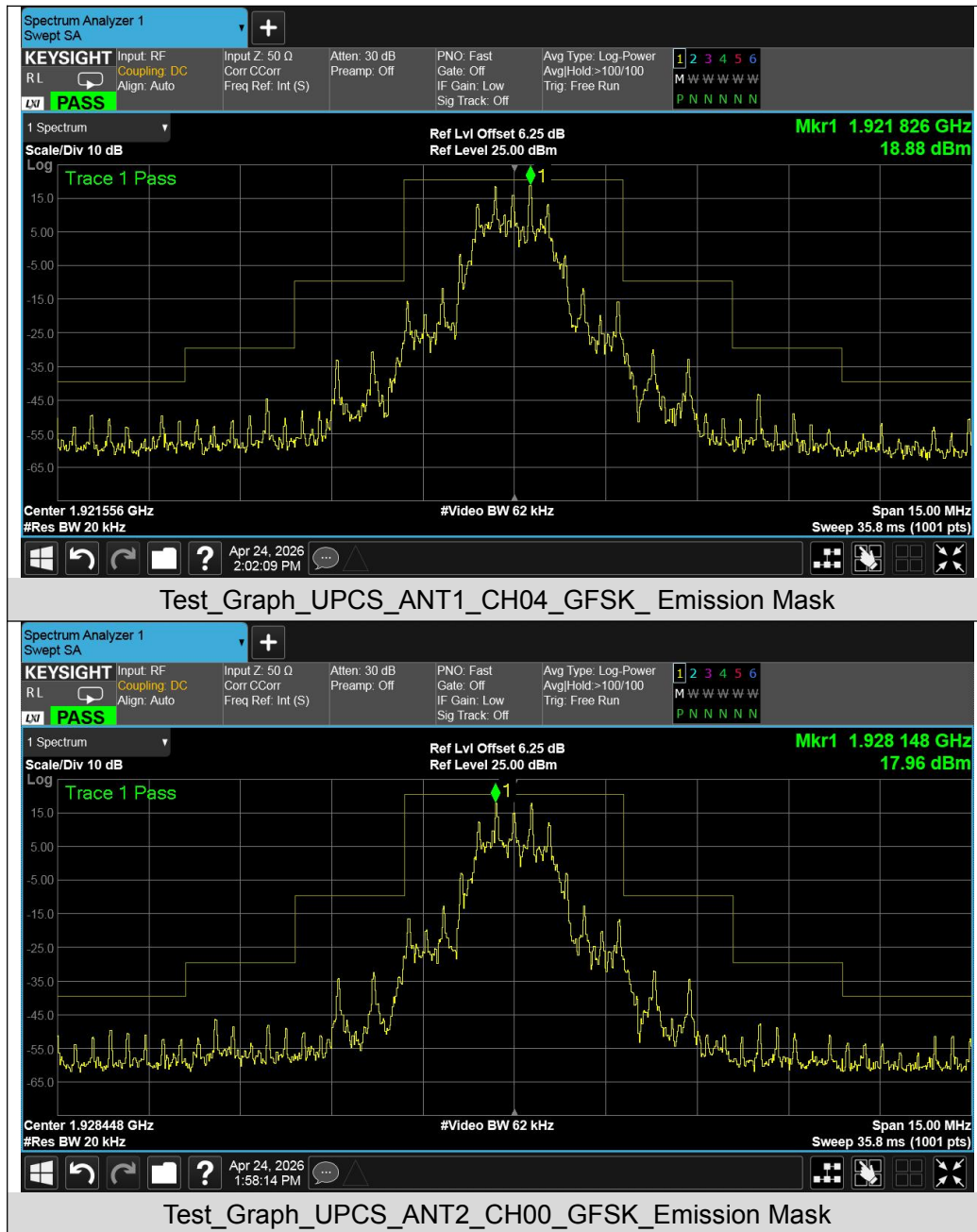
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9.4 Measurement Result

Test Graphs of In-Band Unwanted Emissions



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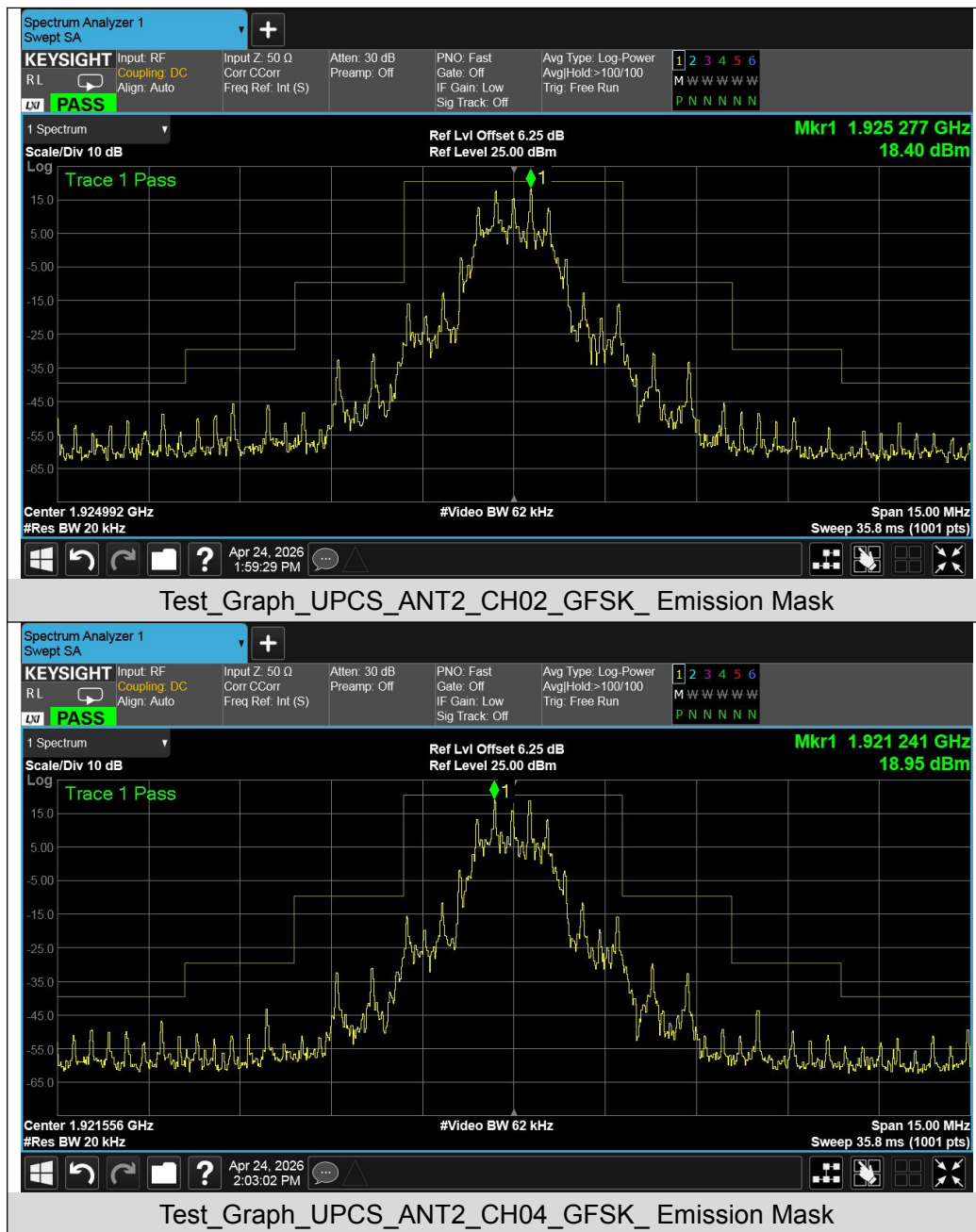


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10. Out-of-Band Unwanted Emissions

10.1 Provisions Applicable

Please refer to FCC 47 CFR Part 15.323(d) for specification details :

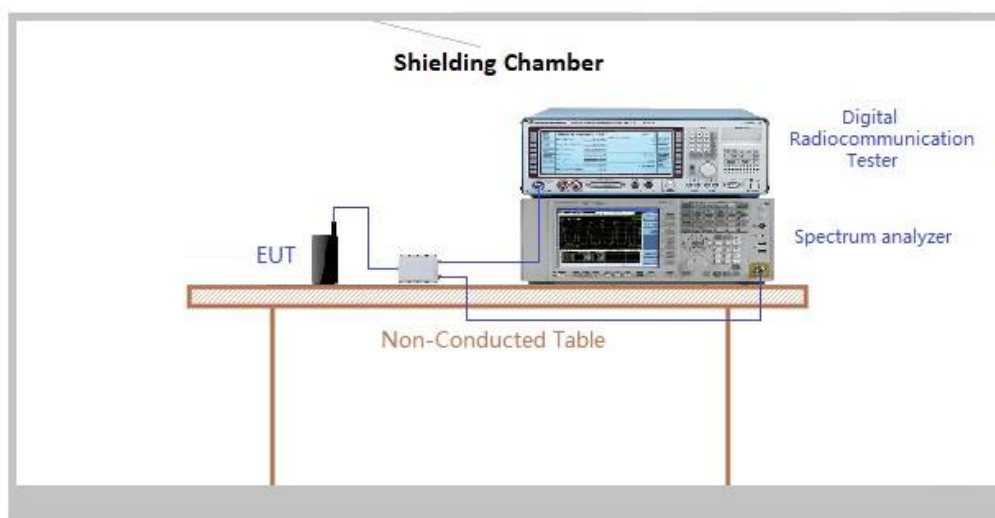
- a) In the region between the band edges and 1.25 MHz below and above the lower and the upper band edges, respectively, the measured emission level shall not exceed -9.5 dBm.
- b) In the region between 1.25 and 2.5 MHz below and above the lower and the upper band edges, respectively, the measured emission level shall not exceed -29.5 dBm.
- c) In the region at 2.5 MHz or greater below and above the lower and upper band edges, respectively, the measured emission level shall not exceed -39.5 dBm.

10.2 Measurement Procedure

The testing follows the ANSI C63.17-2013 Section 6.1.6.2

RBW	Approximately 1% of the Emission bandwidth (B)
Video bandwidth	$\geq 3 \times \text{RBW}$
Span	Approximately equal to 3.5 B
Center frequency	Nominal center frequency of transmit carrier
Detection	Peak detection and max hold enabled
Amplitude scale	Log
Sweep Time	The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts.
Number of sweeps	Sufficient to stabilize the trace

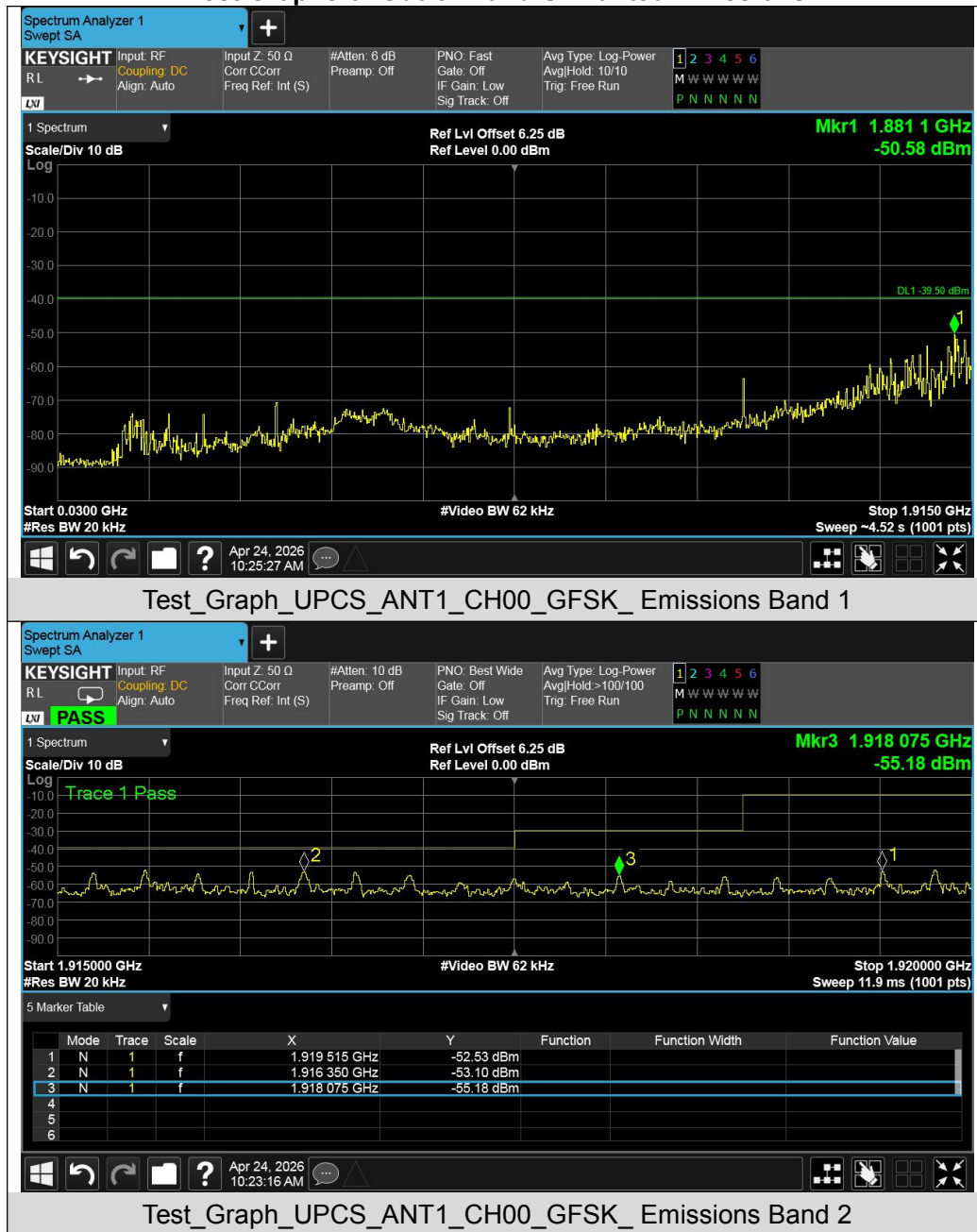
10.3 Measurement Setup (Block Diagram of Configuration)



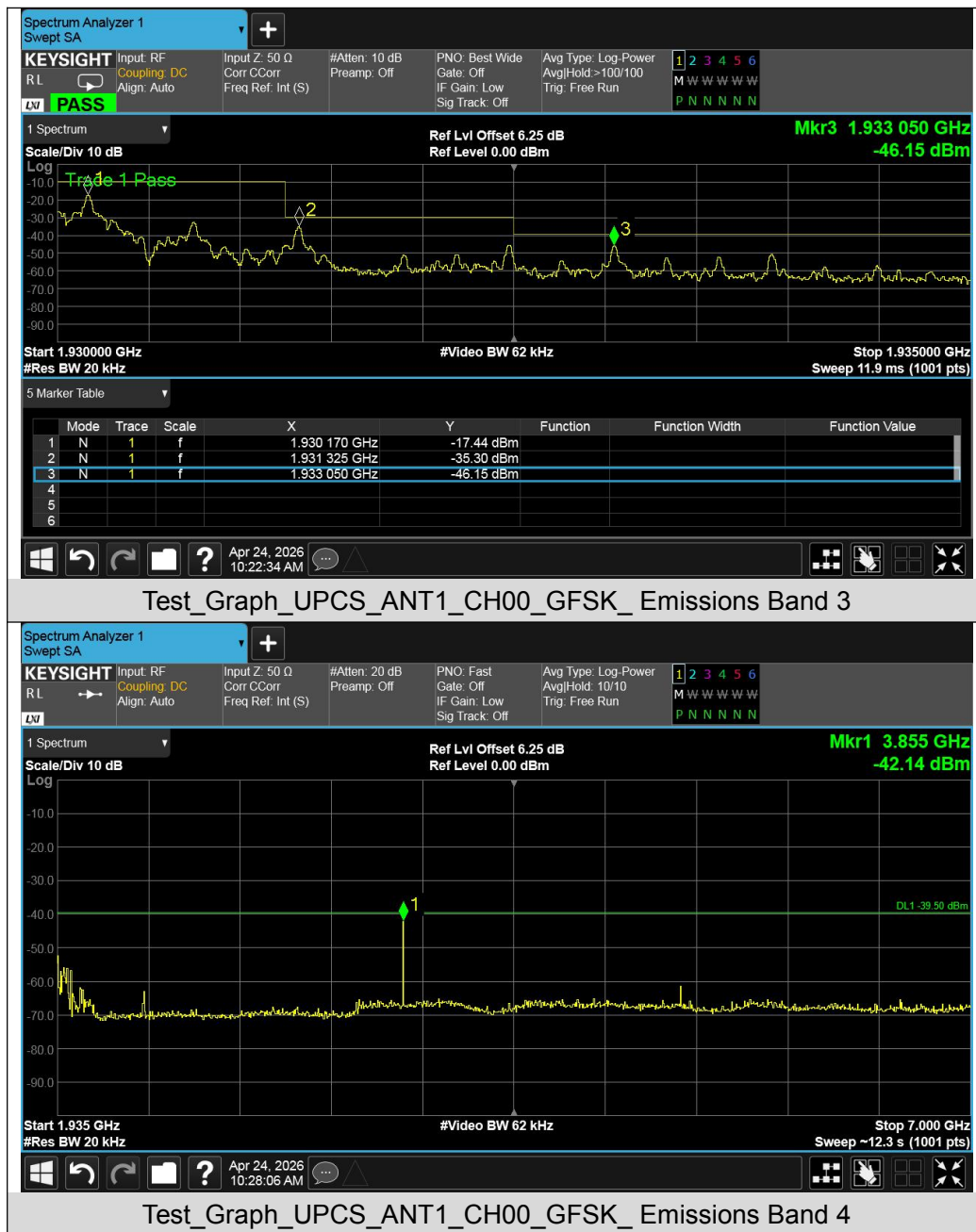
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10.4 Measurement Result

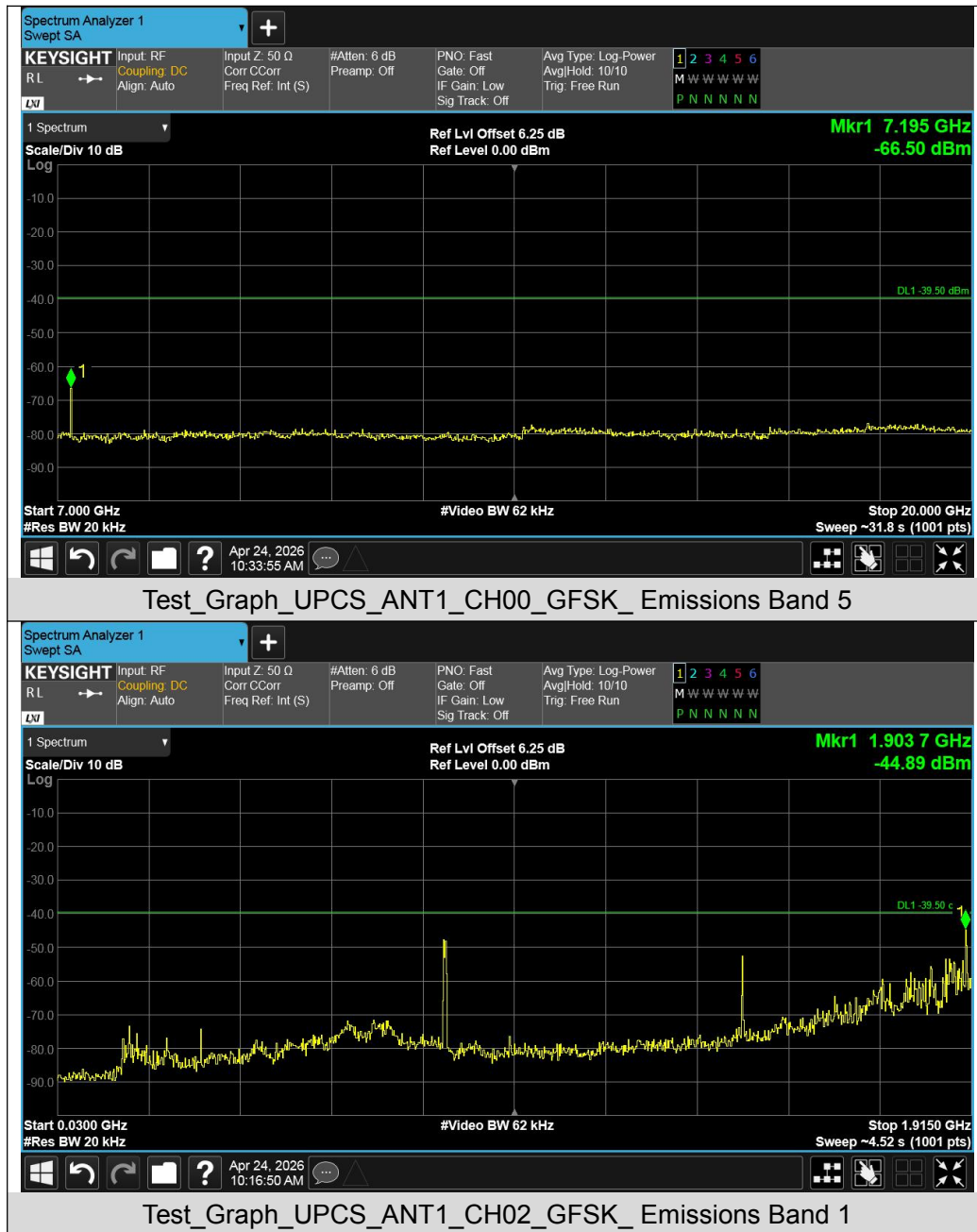
Test Graphs of Out-of-Band Unwanted Emissions



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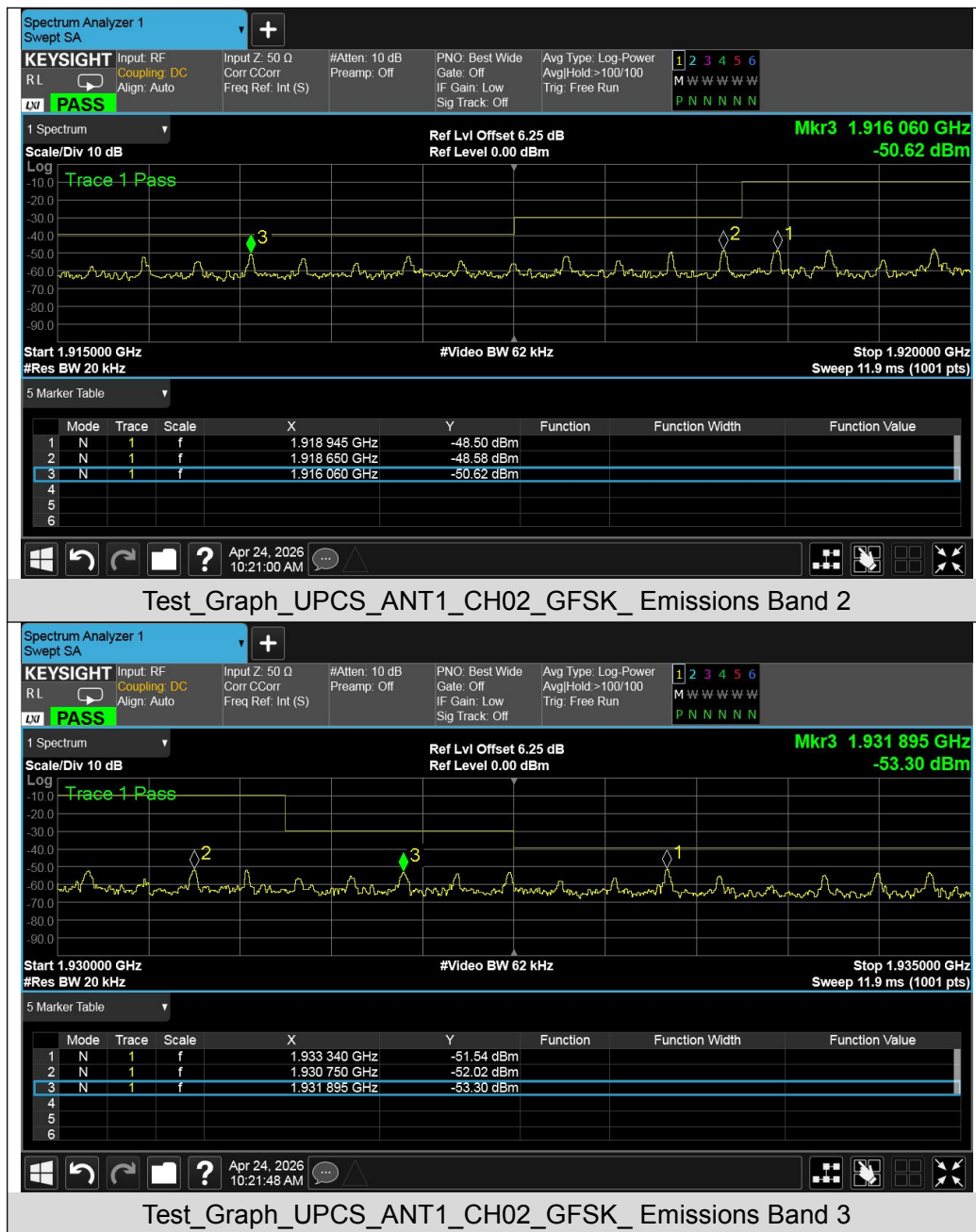


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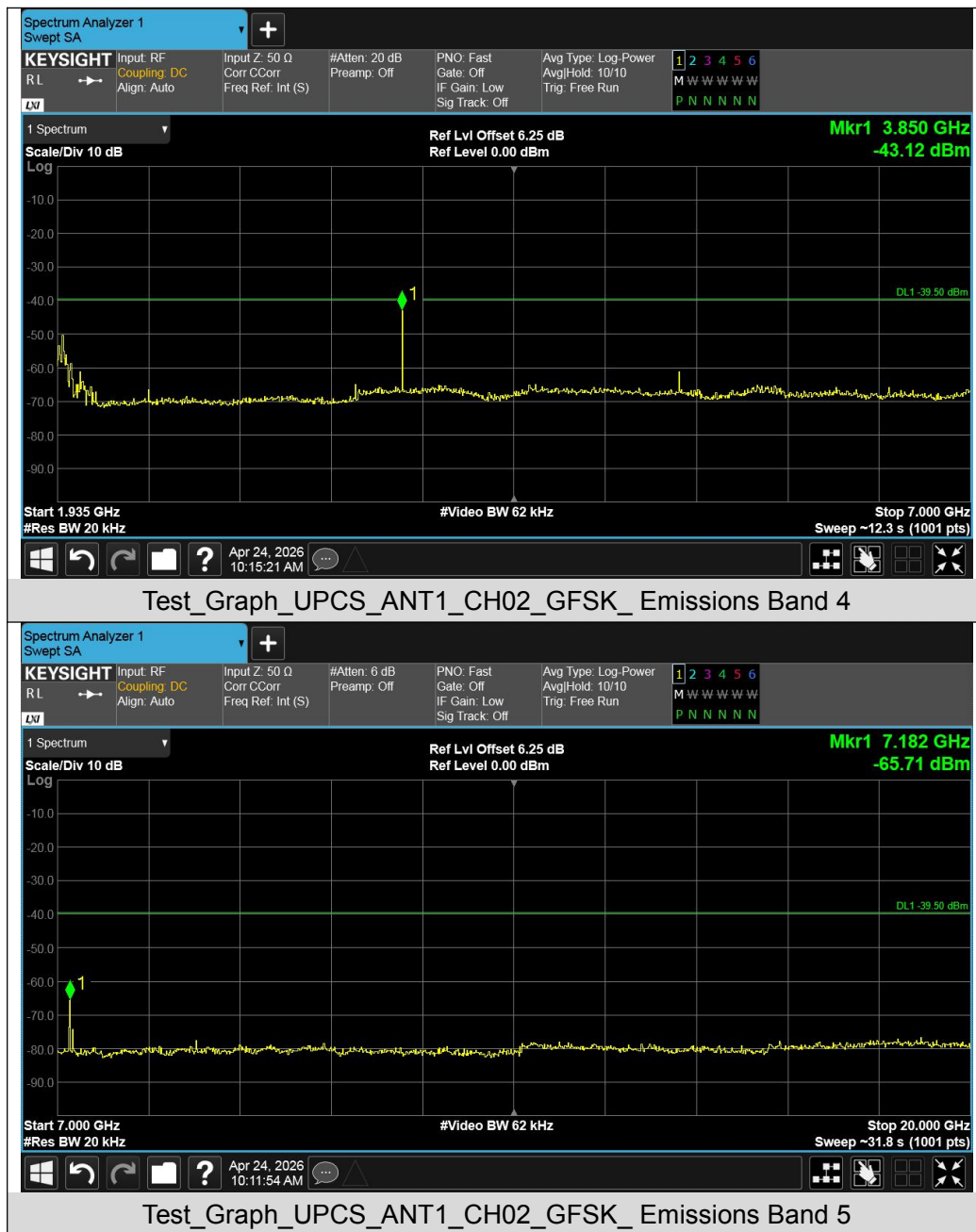
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