



TEST REPORT

Applicant: Shanghai eSurvey GNSS Co., Ltd.
Address of Applicant: Zhuyuan Rd, Minhang District, Shanghai, China
Manufacturer: Shanghai eSurvey GNSS Co., Ltd.
Address of Manufacturer: Zhuyuan Rd, Minhang District, Shanghai, China
Product Name: Wireless Data Transceiver
Model No.: TRU35
Trade Mark: N/A
FCC ID: 2A34K-TRU35
Applicable standards: FCC CFR Title 47 Part 90, FCC CFR Title 47 Part 2
Test Procedure:: ANSI C63.26-2015
Date of Test: February 27, 2026 – July 22, 2026
Date of report issued: July 22, 2026

Remark:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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Report Revision History



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ET-26052216E02	Original	July 22, 2026



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1. Test Summary

Test Item	Section in Standard	Result
Transmitter Power(Conducted)	FCC PART 90	PASS
Occupied Bandwidth & Emission Mask	FCC PART 90	PASS
Spurious Emissions(conducted)	FCC PART 90	PASS
Spurious Emissions(Radiated)	FCC PART 90	PASS
Transient Frequency Behavior	FCC PART 90	PASS
Frequency Stability	FCC PART 90	PASS
Modulation Characteristics	FCC PART 2 FCC PART 90	N/A ^{Note1}
Adjacent channel power	FCC PART 2	N/A ^{Note2}

Remark:

Pass: The EUT complies with the essential requirements in the standard.

N/A^{Note1}: The EUT is used in digital modulation.

N/A^{Note2}: Authorized bandwidth (kHz) < 20 kHz.

Compliance determination rules

- 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacture. If measurement uncertainty is taken into account, the applicant/manufacture will bear all possible risks of non-compliance.*
- 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"*

2. General Information

2.1. General Description of EUT

Product Name:	Wireless Data Transceiver
Model No.:	TRU35
Difference in series models	N/A
Test model:	TRU35
Hardware version:	V1.0
Software version:	V1.0
Power supply:	DC 9-16V
UHF information	
Operation frequency	410MHz-470MHz
Conducted Power	11W(40.41±1dBm), 27W(44.31±1dBm)
Channel spacing	GMSK: 12.5KHz, 25KHz 4FSK: 12.5KHz, 25KHz
Modulation type	GMSK, 4FSK
Antenna Type:	Rod antenna
Antenna gain:	5.5dBi
Note: <i>1. Other information please Reference user manual. 2. Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information. 3. All Conducted Power have been tested, and recorded the worst case 27W(44.31±1dBm) results in this report.</i>	

2.2. Test frequency channel

GMSK		
Test Channel	Channel spacing (KHz)	Frequency(MHz)
Low	12.5	410.050
	25	410.050
Mid	12.5	440.000
	25	440.000
High	12.5	469.950
	25	469.950

4FSK		
Test Channel	Channel spacing (KHz)	Frequency(MHz)
Low	12.5	410.050
	25	410.050
Mid	12.5	440.000
	25	440.000
High	12.5	469.950
	25	469.950

2.3. Test mode

Test Mode		
Item	Description of operation mode	Note
1	GMSK+CS12.5KHz+TX	at maximum rated power for transmitter
2	GMSK+CS25KHz+TX	at maximum rated power for transmitter
3	4FSK+CS12.5KHz+TX	at maximum rated power for transmitter
4	4FSK+CS25KHz+TX	at maximum rated power for transmitter

Note: The worst case modes for all test are the item 1.

2.4. EUT configuration

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

- - supplied by the manufacturer
- - supplied by the lab

Description of Support Units

No.	Description	Manufacturer	Model	Serial Number
1	/	/	/	/

2.5. Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Voltage	TN	Ambient
	VL	9V
	VN	12V
	VH	16V

NOTE: VL=lower extreme test voltage VN=nominal voltage

VH=upper extreme test voltage TN=normal temperature

2.6. Test Facility

Test laboratory:	Shenzhen ETR Standard Technology Co., Ltd.
Laboratory location:	No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.:	CNAS 11864
A2LA Certificate Number:	6640.01
FCC Designation Number:	CN1326
FCC Test Firm Registration:	183064

2.7. Environmental conditions

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.8. Measurement Uncertainty

Test Item	Uncertainty Criterion	Measurement Uncertainty	Notes
Occupied Channel Bandwidth	±5%	2.38%	(1)
RF output power, conducted	±1.5dB	±0.63dB	(1)
Power Spectral Density, conducted	±3dB	±0.69dB	(1)
Unwanted Emissions, conducted	±3dB	±2.39dB	(1)
AC Power Line Conducted Emission	±6dB	± 2.64 dB	(1)
Radiated emissions Below 1GHz	±6dB	±4.32 dB	(1)
Radiated emissions Above 1GHz	±6dB	±4.56 dB	(1)
Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.			



3. Test Instruments list

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC13	100605	2025.3.06	2026.3.05
2	Artificial power network	schwarbeck	NSLK8127	8127483	2025.3.06	2026.3.05
3	Artificial power network	ETS	3186/2NM	1132	2025.3.06	2026.3.05
4	10dB attenuator	HUBER+SUHNER	10dB	/	2025.3.06	2026.3.05
5	Cable 4	HUBER SUNNER	3M	/	2025.3.06	2026.3.05
7	EMI Test Receiver	Rohde&schwarz	ESC17	101032	2025.3.06	2026.3.05
8	Broadband antenna	schwarbeck	VULB9168	1064	2024.3.26	2026.3.25
9	Horn antenna	schwarbeck	BBHA9120D	9120D-1145	2024.3.22	2026.3.21
10	Amplifier	EMtrace	RP01A	50117	2025.3.06	2026.3.05
11	Amplifier	Space-Dtronics	EVLAN0118G-P4	19113001	2025.3.06	2026.3.05
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2025.3.06	2026.3.05
13	Power detector meter	MWRFtest	MW100-PSB	MW201020JYT	2025.3.06	2026.3.05
14	Signal generator	Agilent	N5182A	MY49060455	2025.3.06	2026.3.05
15	Spectrum analyzer	Rohde&schwarz	FSV40	102137	2025.3.06	2026.3.05
16	Amplifier	SKET	LNPA_1840-50	SK2019040302	2024.3.22	2026.3.21
17	Horn antenna	schwarbeck	BBHA 9170	946	2024.3.26	2026.3.25
18	Loop antenna	schwarbeck	FMZB 1519 B	1519	2024.3.26	2026.3.25
19	Cable 6	HUBER SUNNER	0.5M	/	2025.3.06	2026.3.05
20	Cable7	HUBER SUNNER	2.0M	/	2025.3.06	2026.3.05
21	Cable8	HUBER SUNNER	6.0M	/	2025.3.06	2026.3.05
22	Filter	Xin bo	XBLBQ-GTA29	210410-3-2	2025.3.06	2026.3.05
23	Automated filter bank	onscend	JS0806-F	JS0806-F	2025.3.06	2026.3.05

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESC13	100605	2026.3.05	2027.3.04
2	Artificial power network	schwarbeck	NSLK8127	8127483	2026.3.05	2027.3.04
3	Artificial power network	ETS	3186/2NM	1132	2026.3.05	2027.3.04
4	10dB attenuator	HUBER+SUHNER	10dB	/	2026.3.05	2027.3.04
5	Cable 4	HUBER SUNNER	3M	/	2026.3.05	2027.3.04
7	EMI Test Receiver	Rohde&schwarz	ESC17	101032	2026.3.05	2027.3.04
8	Broadband antenna	schwarbeck	VULB9168	1064	2026.3.11	2028.3.10
9	Horn antenna	schwarbeck	BBHA9120D	9120D-1145	2026.3.11	2028.3.10
10	Amplifier	EMtrace	RP01A	50117	2026.3.05	2027.3.04
11	Amplifier	Space-Dtronics	EVLAN0118G-P4	19113001	2026.3.05	2027.3.04
12	Spectrum analyzer	KEYSIGHT	N9020A	MY55370280	2026.3.05	2027.3.04
13	Power detector meter	MWRFtest	MW100-PSB	MW201020JYT	2026.3.05	2027.3.04
14	Signal generator	Agilent	N5182A	MY49060455	2026.3.05	2027.3.04
15	Spectrum analyzer	Rohde&schwarz	FSV40	102137	2026.3.05	2027.3.04
16	Amplifier	SKET	LNPA_1840-50	SK2019040302	2026.3.05	2027.3.04
17	Horn antenna	schwarbeck	BBHA 9170	946	2026.3.11	2028.3.10
18	Loop antenna	schwarbeck	FMZB 1519 B	1519	2026.3.11	2028.3.10
19	Cable 6	HUBER SUNNER	0.5M	/	2026.3.05	2027.3.04
20	Cable7	HUBER SUNNER	2.0M	/	2026.3.05	2027.3.04
21	Cable8	HUBER SUNNER	6.0M	/	2026.3.05	2027.3.04
22	Filter	Xin bo	XBLBQ-GTA29	210410-3-2	2026.3.05	2027.3.04
23	Automated filter bank	onscend	JS0806-F	JS0806-F	2026.3.05	2027.3.04



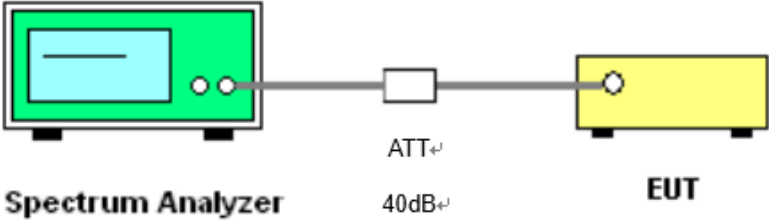
Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

Software Name	Manufacturer	Model	Version
LTE test software	CESHENG	WCS-LTE	Ver:25.09.1601
Conducted test software	Farad	EZ-EMC	Ver.EMC-CON 3A1.1
Radiated test software	Farad	EZ-EMC	Ver.FA-03A2 RE

4. Test Results and Measurement Data

4.1. Transmitter Power (Conducted)

4.1.1. Test Specification

Test Requirement:	Part 90.205
Test Method:	FCC part 2.1046, ANSI C63.26-2015 Section 5.2
Limits:	Please refer section FCC Part 90.205
Test Setup:	 Spectrum Analyzer ATT 40dB EUT
Test Procedure:	a) Connect the equipment as illustrated. b) Turn on the Spectrum Analyzer c) Record value
Test Result:	PASS

4.1.2. Test Results

Modulation Mode	Channel Separation (KHz)	Test Channel	Conducted Power (dBm)		Gain (dBi)	Maximum ERP (dBm)		Verdict
			High Power Level	Low Power Level		High Power Level	Low Power Level	
GMSK	12.5	L	44.943	40.354	5.5	48.293	43.704	Pass
	12.5	M	43.502	39.963	5.5	46.852	43.313	Pass
	12.5	H	44.315	39.673	5.5	47.665	43.023	Pass
	25	L	44.768	40.088	5.5	48.118	43.438	Pass
	25	M	43.782	40.459	5.5	47.132	43.809	Pass
	25	H	43.702	39.878	5.5	47.052	43.228	Pass
4FSK	12.5	L	44.689	40.097	5.5	48.039	43.447	Pass
	12.5	M	43.730	40.403	5.5	47.080	43.753	Pass
	12.5	H	43.681	39.906	5.5	47.031	43.256	Pass
	25	L	44.547	40.082	5.5	47.897	43.432	Pass
	25	M	43.625	40.379	5.5	46.975	43.729	Pass
	25	H	43.554	39.827	5.5	46.904	43.177	Pass

Note: 1. Maximum ERP = Conducted Power + Antenna Gain - 2.15dB

According to part 90.205 (s), the limit is as below:

Rated High power: 27W (44.31±1 dBm)

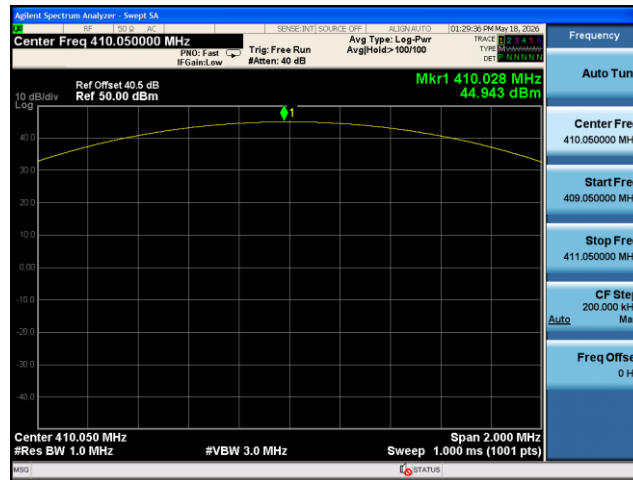
Rated Low power: 11W (40.41±1 dBm)



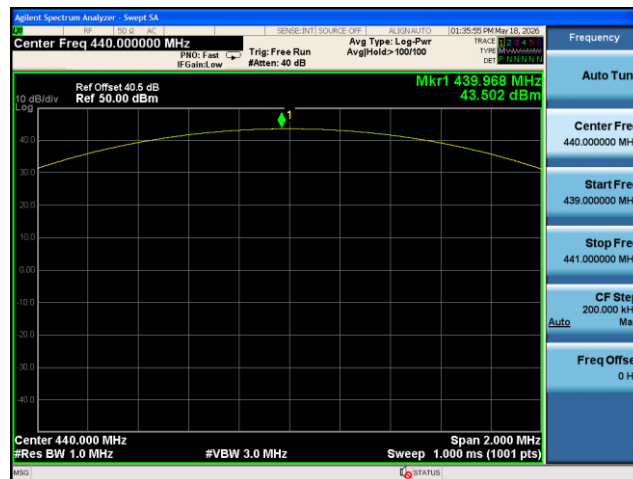
Test plots as follows:

GMSK 27W 12.5KHz Channel Spacing: Transmitter Power

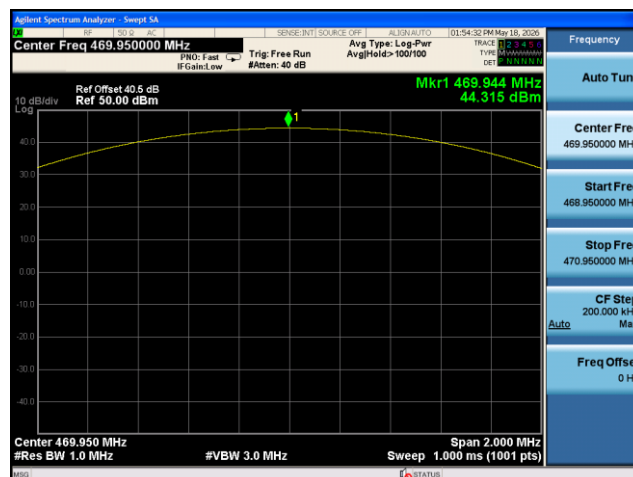
Low: 410.050MHz



Mid: 440.000MHz



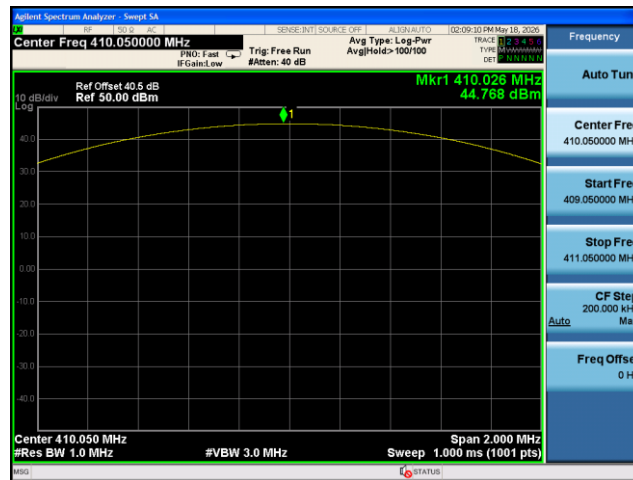
High: 470.000MHz



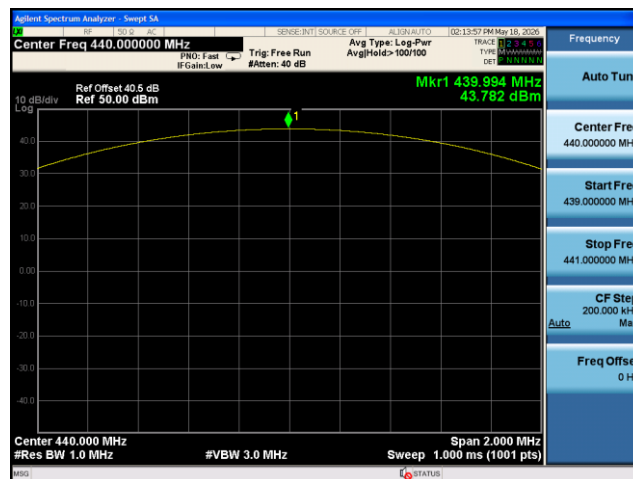


GMSK 27W 25KHz Channel Spacing: Transmitter Power

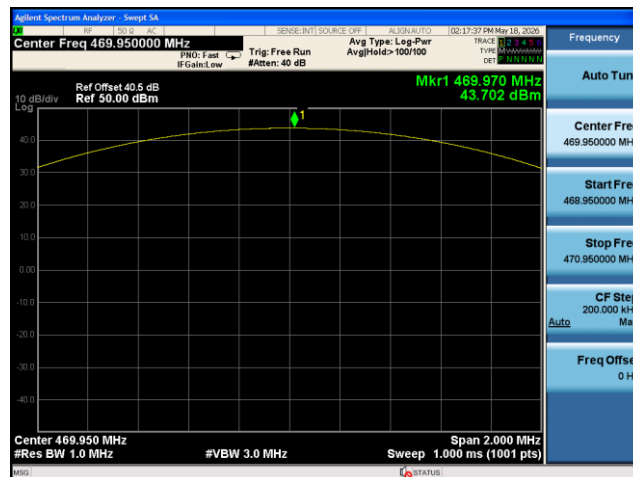
Low: 410.050MHz



Mid: 440.000MHz



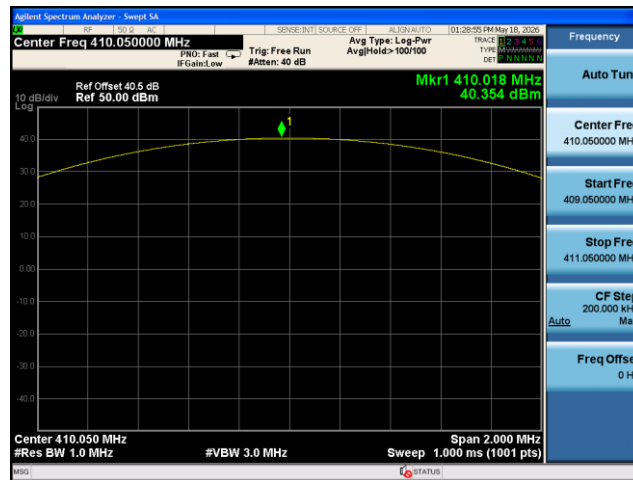
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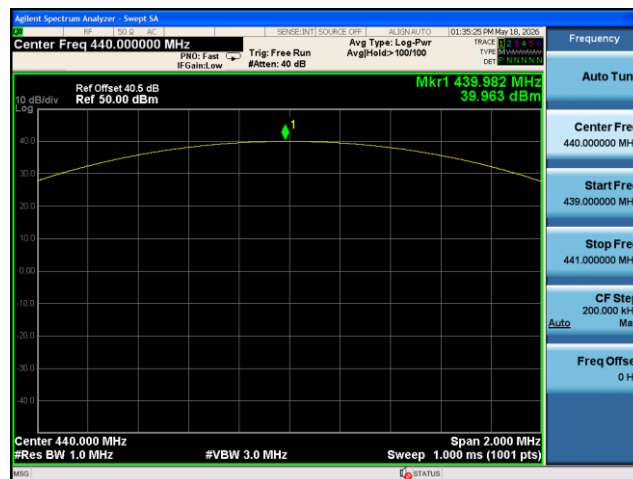


GMSK 11W 12.5KHz Channel Spacing: Transmitter Power

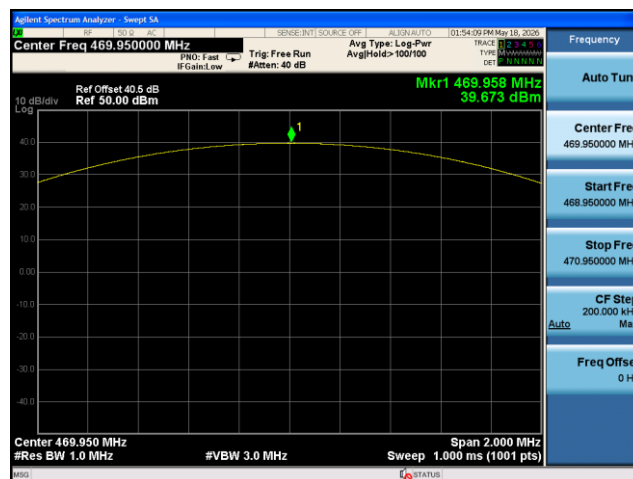
Low: 410.050MHz



Mid: 440.000MHz



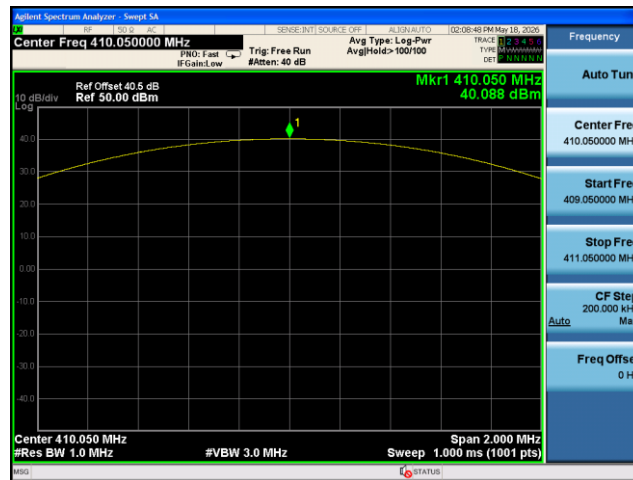
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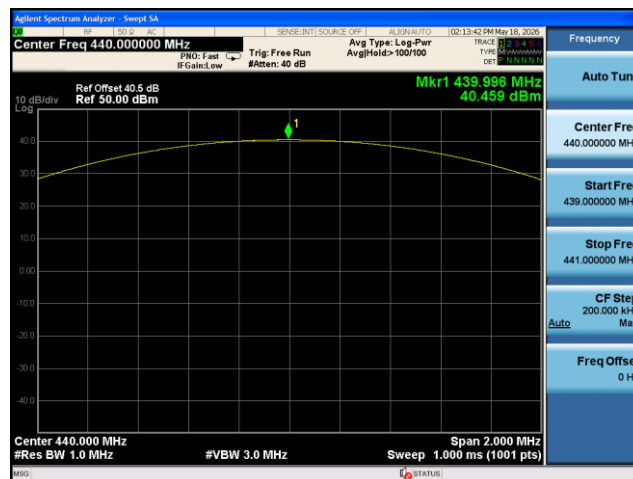


GMSK 11W 25KHz Channel Spacing: Transmitter Power

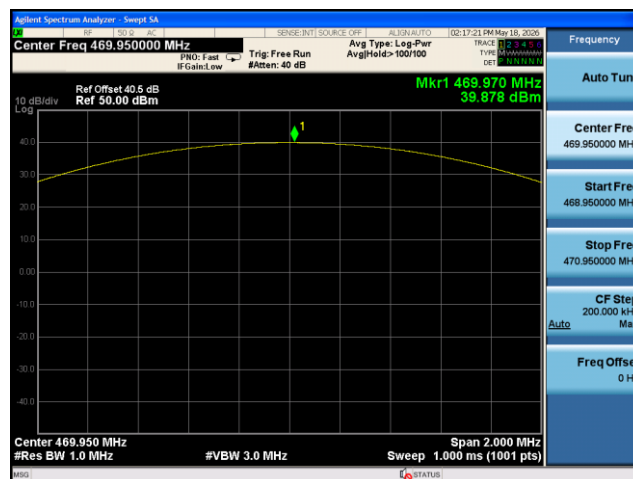
Low: 410.050MHz



Mid: 440.000MHz

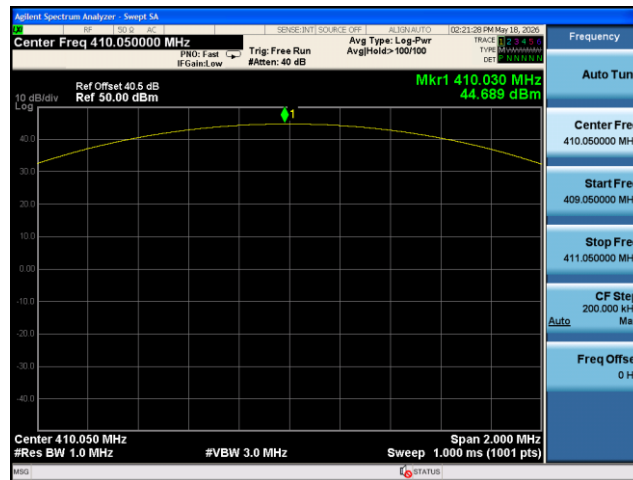


High: 470.00MHz

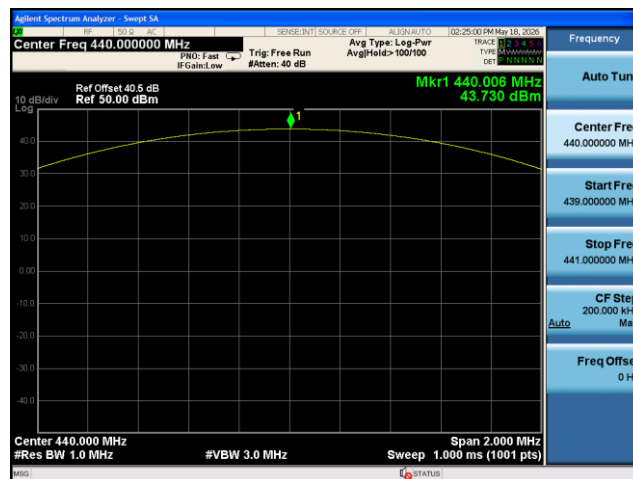


4FSK 27W 12.5KHz Channel Spacing: Transmitter Power

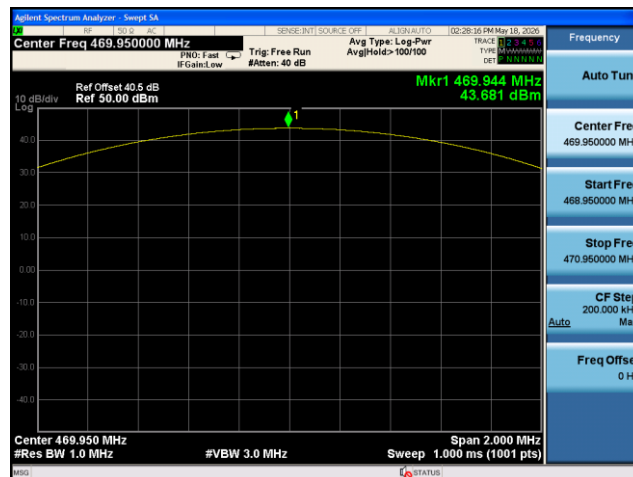
Low: 410.050MHz



Mid: 440.000MHz



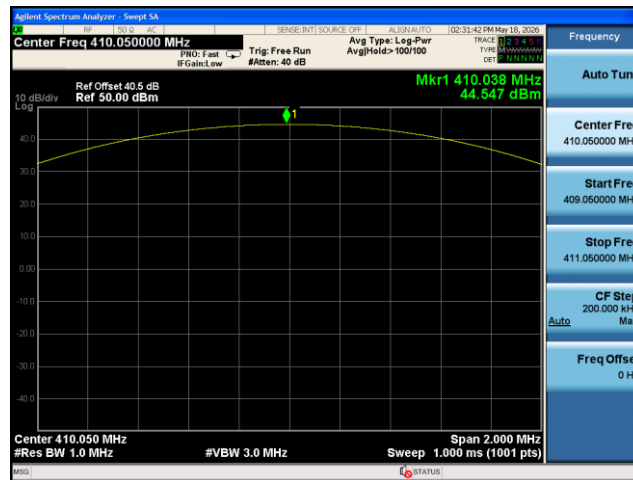
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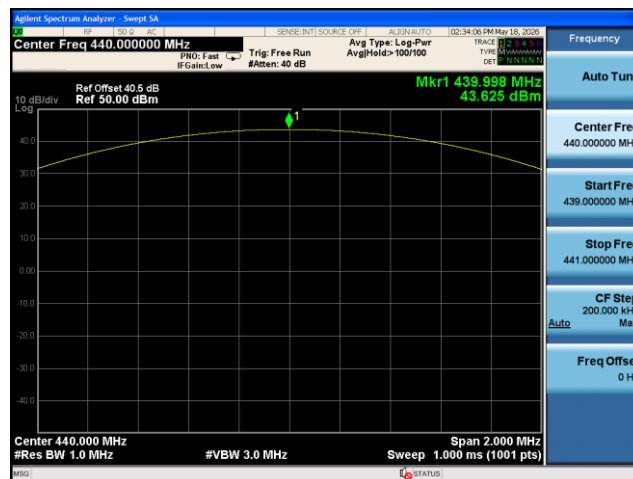


4FSK 27W 25KHz Channel Spacing: Transmitter Power

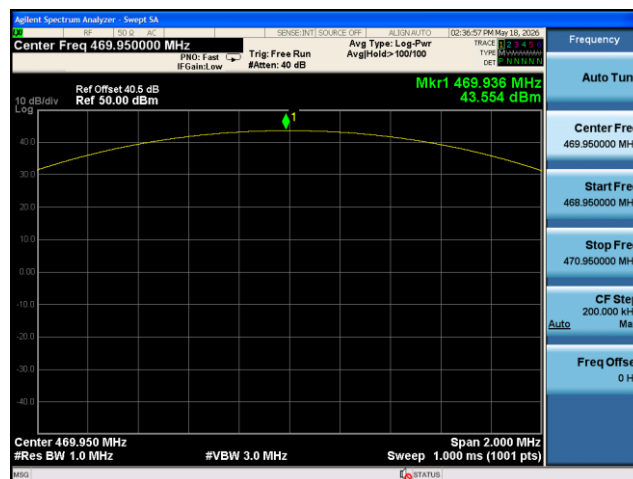
Low: 410.050MHz



Mid: 440.000MHz



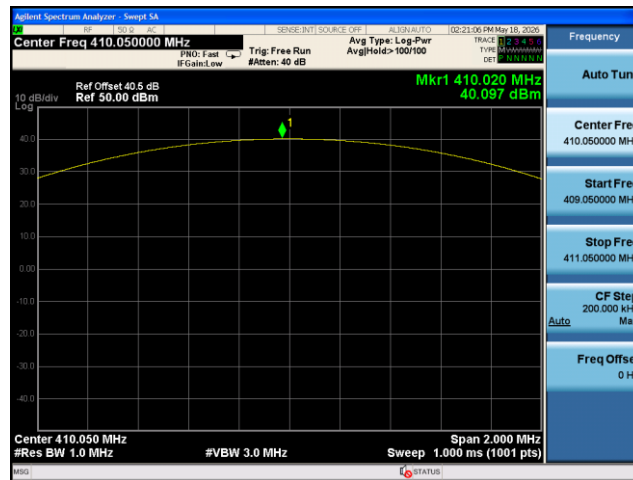
High: 470.00MHz



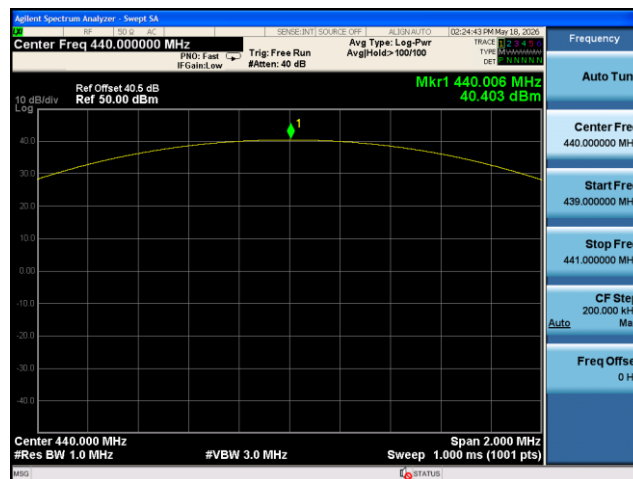


4FSK 11W 12.5KHz Channel Spacing: Transmitter Power

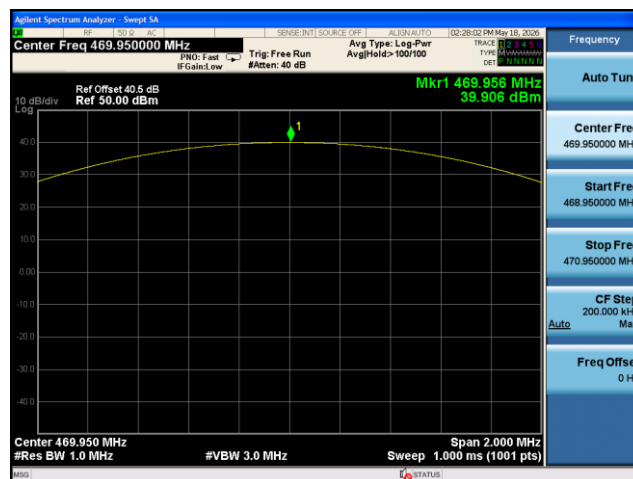
Low: 410.050MHz



Mid: 440.000MHz



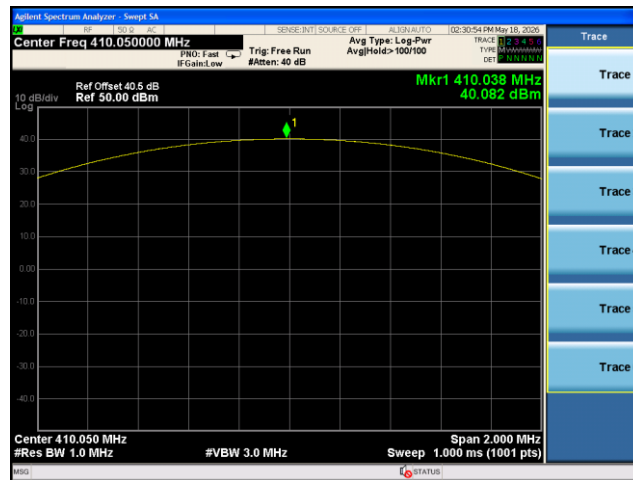
High: 470.00MHz



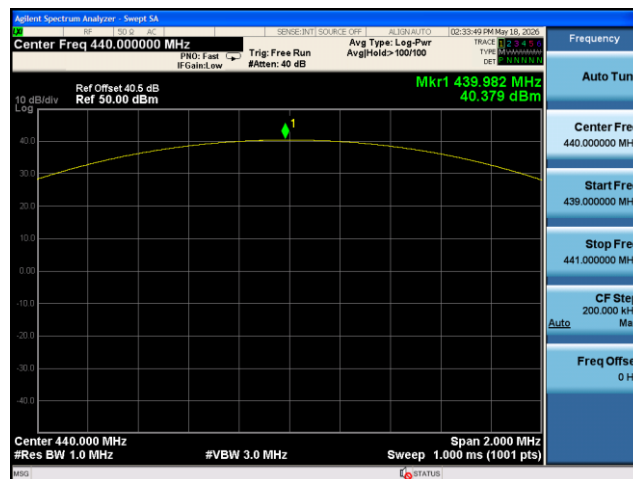


4FSK 11W 25KHz Channel Spacing: Transmitter Power

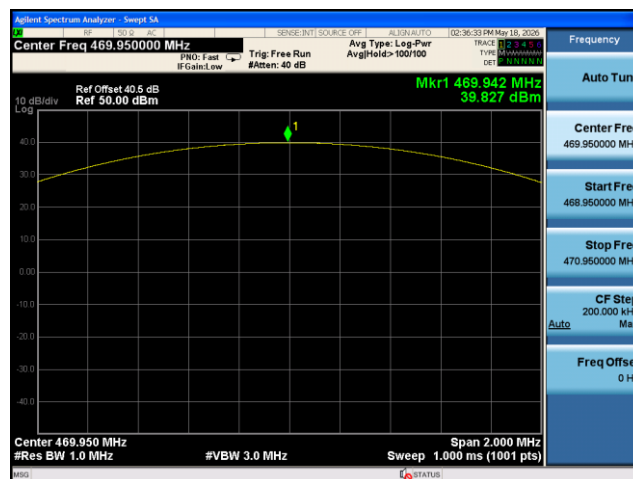
Low: 410.050MHz



Mid: 440.000MHz

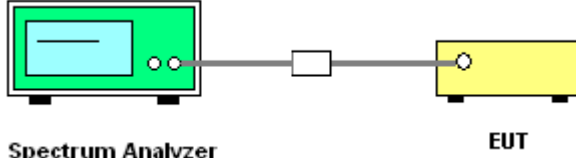


High: 470.00MHz



4.2. Occupied Bandwidth and Emission Mask

4.2.1. Test Specification

Test Requirement:	FCC Part 90.209, FCC Part 90.210
Test Method:	FCC part 2.1049, ANSI C63.26-2015 Section 5.4
Test Setup:	 The diagram shows a green Spectrum Analyzer connected by a cable to a yellow EUT (Equipment Under Test). The Spectrum Analyzer is on the left and the EUT is on the right.
Test Procedure:	The resolution bandwidth of the spectrum analyzer was set at 300 Hz and the spectrum was recorded in the Frequency band $\pm 50\text{KHz}$ from the carrier frequency for Occupied Bandwidth, the resolution bandwidth of the spectrum analyzer was set at 100 Hz and the spectrum was recorded in the Frequency band $\pm 100\text{KHz}$ from the carrier frequency for Emission Mask.
Test Result:	PASS

4.2.2. Test Data

Occupied Bandwidth:

GMSK mode (27W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	6.350	4.960	11.25	PASS
Mid	440.000	6.334	4.892	11.25	PASS
High	469.950	6.347	4.935	11.25	PASS

GMSK mode (27W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	12.34	9.849	20	PASS
Mid	440.000	12.33	9.858	20	PASS
High	469.950	12.61	9.849	20	PASS

GMSK mode (11W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	6.277	4.979	11.25	PASS
Mid	440.000	6.297	4.945	11.25	PASS
High	469.950	6.324	4.946	11.25	PASS

GMSK mode (11W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	12.34	9.851	20	PASS
Mid	440.000	12.61	9.854	20	PASS
High	469.950	12.62	9.841	20	PASS

4FSK mode (27W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	10.16	7.197	11.25	PASS
Mid	440.000	10.29	7.045	11.25	PASS
High	469.950	10.33	7.080	11.25	PASS

4FSK mode (27W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	20.89	14.447	20	PASS
Mid	440.000	20.89	14.447	20	PASS
High	469.950	20.88	14.449	20	PASS

4FSK mode (11W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	10.19	7.066	11.25	PASS
Mid	440.000	10.20	7.184	11.25	PASS
High	469.950	10.42	7.078	11.25	PASS

4FSK mode (11W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	26dB Bandwidth (KHz)	99% Occupied Bandwidth (KHz)	99% Occupied Bandwidth Limit (KHz)	Result
Low	410.050	20.89	14.449	20	PASS
Mid	440.000	20.88	14.451	20	PASS
High	469.950	20.88	14.444	20	PASS

Emission Mask:

GMSK mode (27W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	Applicable Mask	RBW	Result
Low	410.050	D	100Hz	PASS
Mid	440.000	D	100Hz	PASS
High	469.950	D	100Hz	PASS

GMSK mode (27W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	Applicable Mask	RBW	Result
Low	410.050	C	300Hz	PASS
Mid	440.000	C	300Hz	PASS
High	469.950	C	300Hz	PASS

4FSK mode (27W) 12.5KHz Channel Spacing:

Channel	Frequency (MHz)	Applicable Mask	RBW	Result
Low	410.050	D	100Hz	PASS
Mid	440.000	D	100Hz	PASS
High	469.950	D	100Hz	PASS

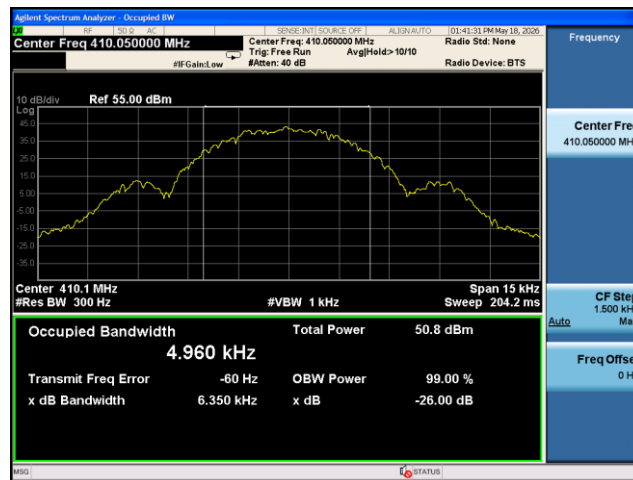
4FSK mode (27W) 25KHz Channel Spacing:

Channel	Frequency (MHz)	Applicable Mask	RBW	Result
Low	410.050	C	300Hz	PASS
Mid	440.000	C	300Hz	PASS
High	469.950	C	300Hz	PASS

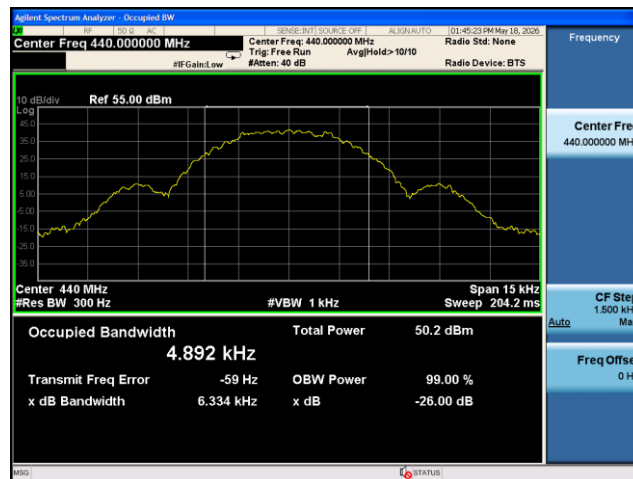
Test plots as follows:

GMSK mode (27W) 12.5KHz Channel Spacing: Occupied Bandwidth

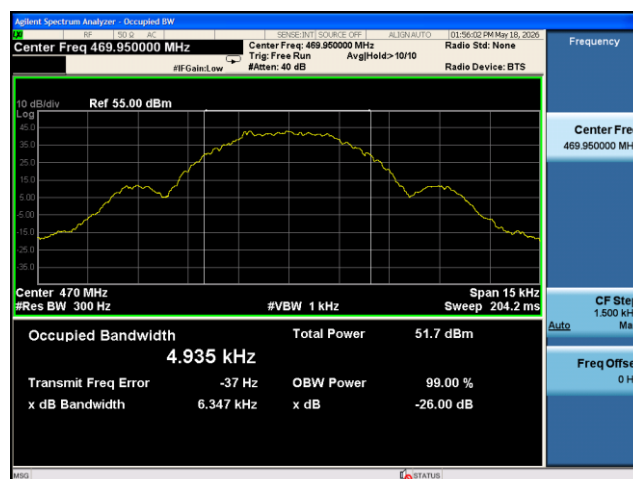
Low: 410.050MHz



Mid: 440.000MHz



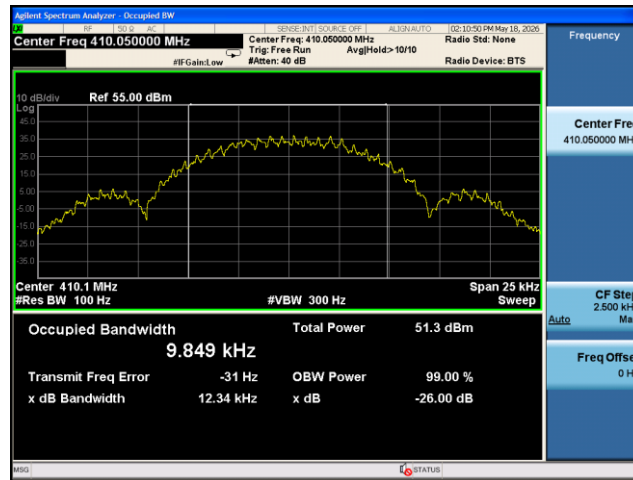
High: 470.00MHz



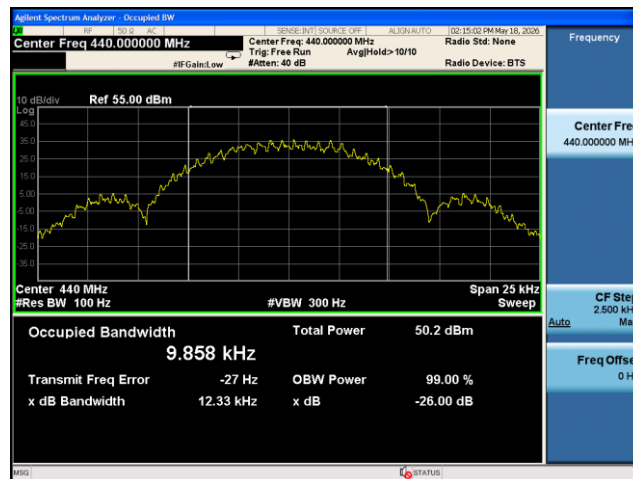


GMSK mode (27W) 25KHz Channel Spacing: Occupied Bandwidth

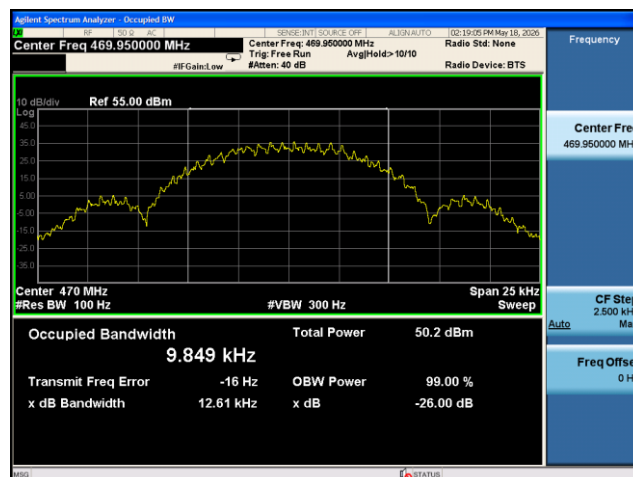
Low: 410.050MHz



Mid: 440.000MHz



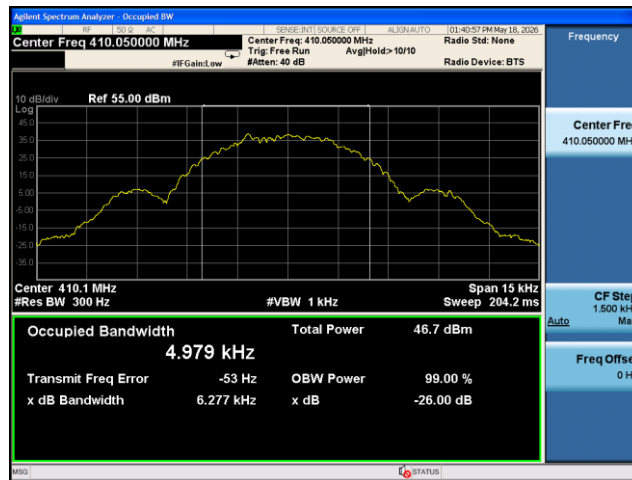
High: 470.00MHz



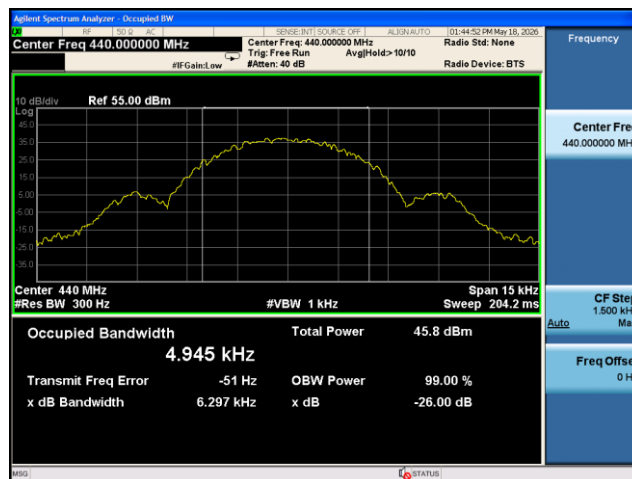


GMSK mode (11W) 12.5KHz Channel Spacing: Occupied Bandwidth

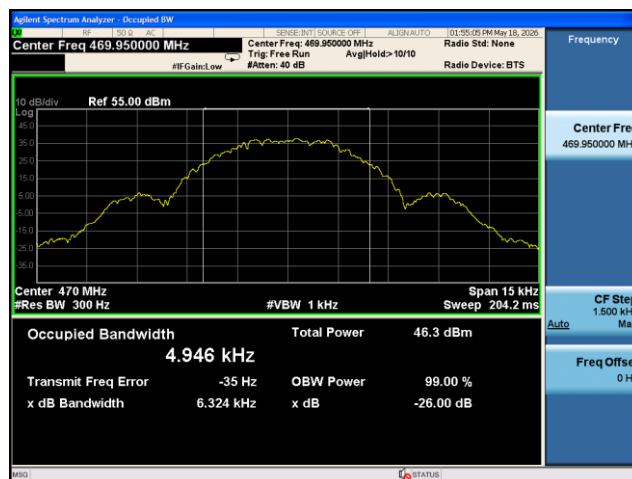
Low: 410.050MHz



Mid: 440.000MHz

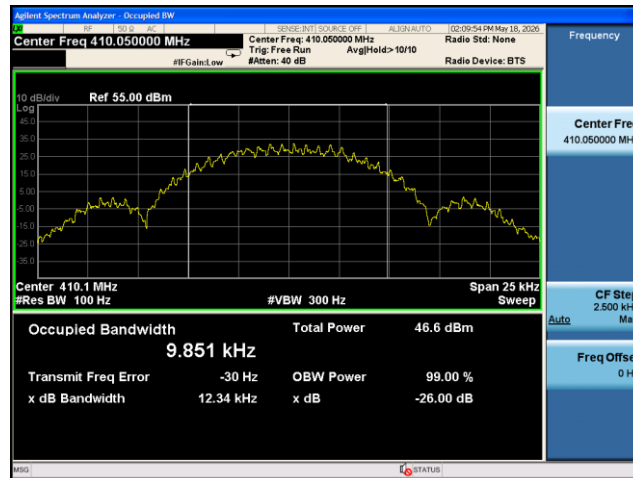


High: 470.00MHz

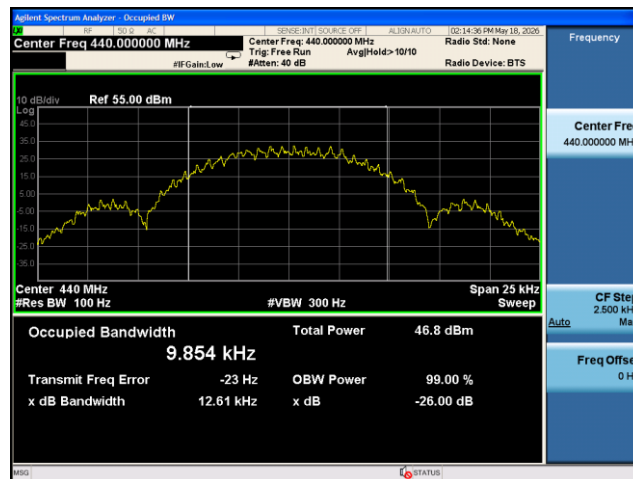


GMSK mode (11W) 25KHz Channel Spacing: Occupied Bandwidth

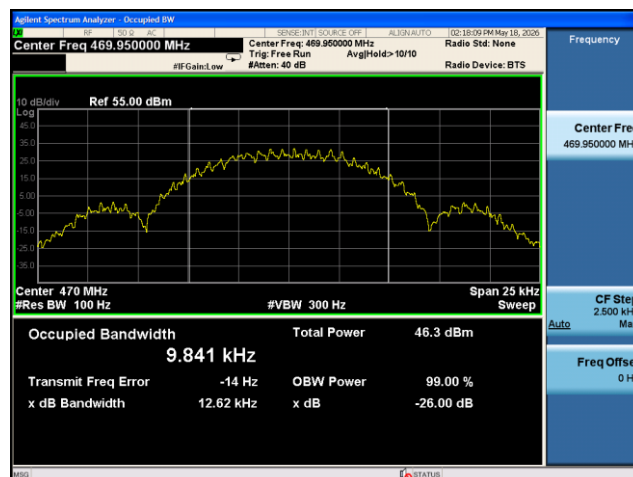
Low: 410.050MHz



Mid: 440.000MHz



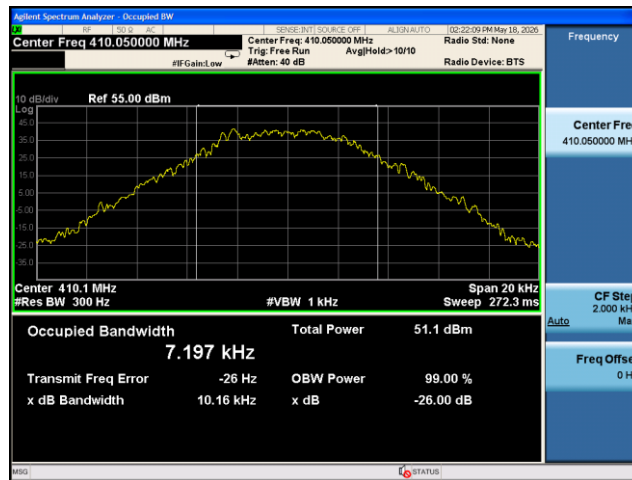
High: 470.00MHz



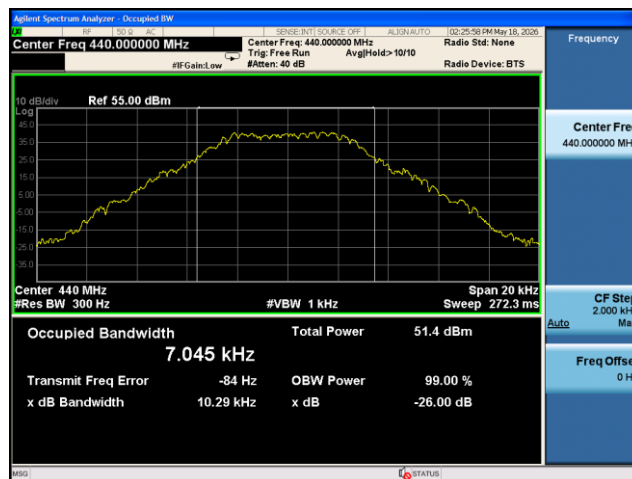


4FSK mode (27W) 12.5KHz Channel Spacing: Occupied Bandwidth

Low: 410.050MHz



Mid: 440.000MHz



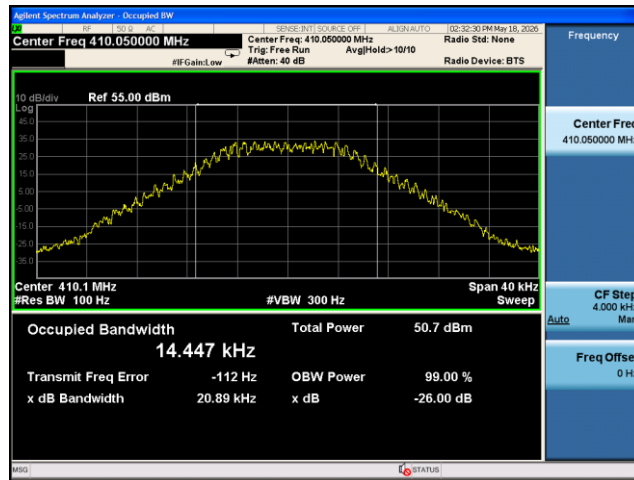
High: 470.00MHz



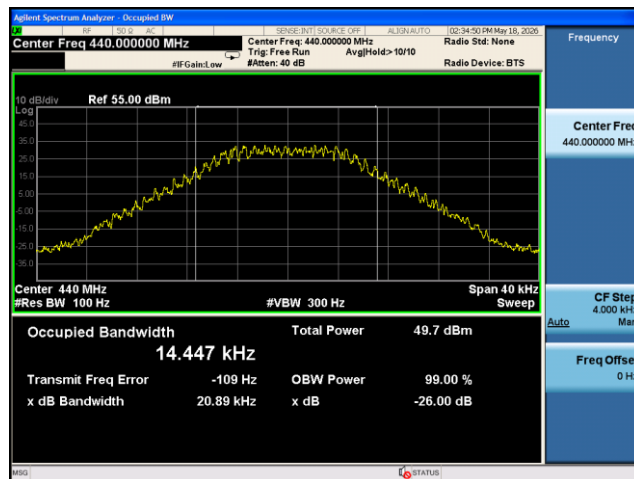


4FSK mode (27W) 25KHz Channel Spacing: Occupied Bandwidth

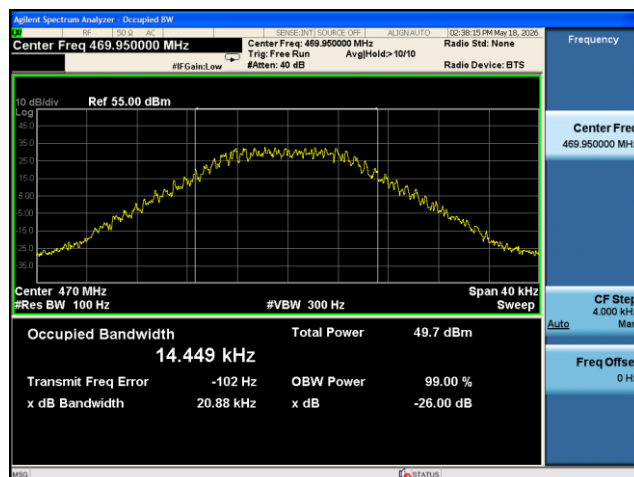
Low: 410.050MHz



Mid: 440.000MHz



High: 470.00MHz

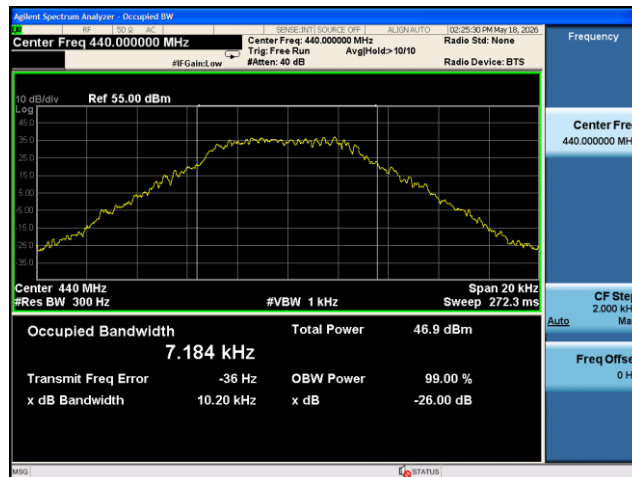


4FSK mode (11W) 12.5KHz Channel Spacing: Occupied Bandwidth

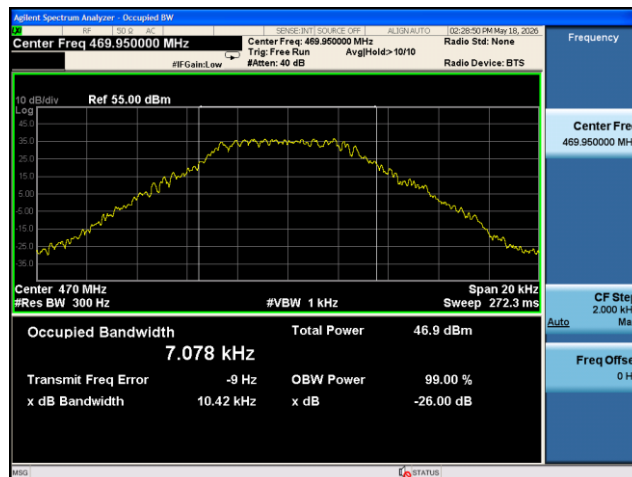
Low: 410.050MHz



Mid: 440.000MHz

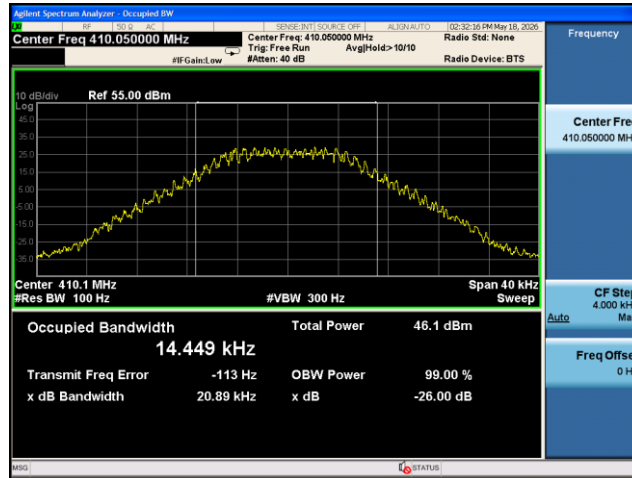


High: 470.00MHz

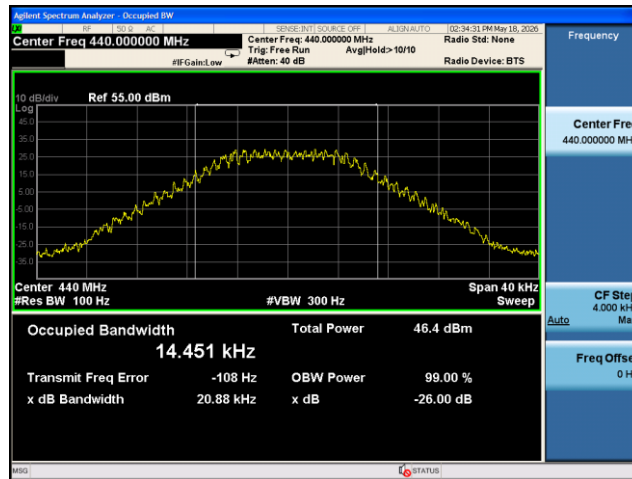


4FSK mode (11W) 25KHz Channel Spacing: Occupied Bandwidth

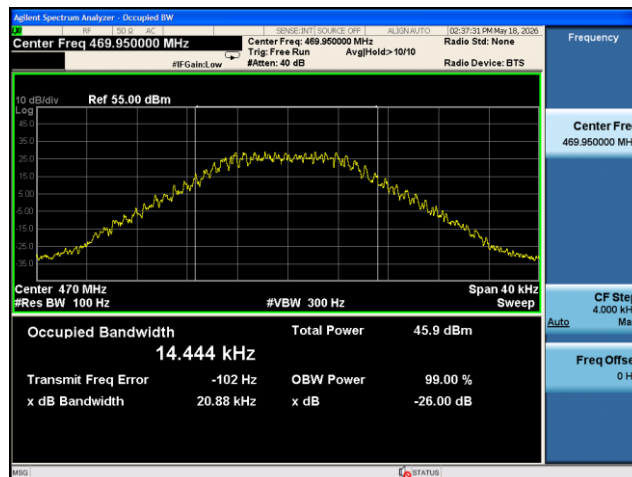
Low: 410.050MHz



Mid: 440.000MHz

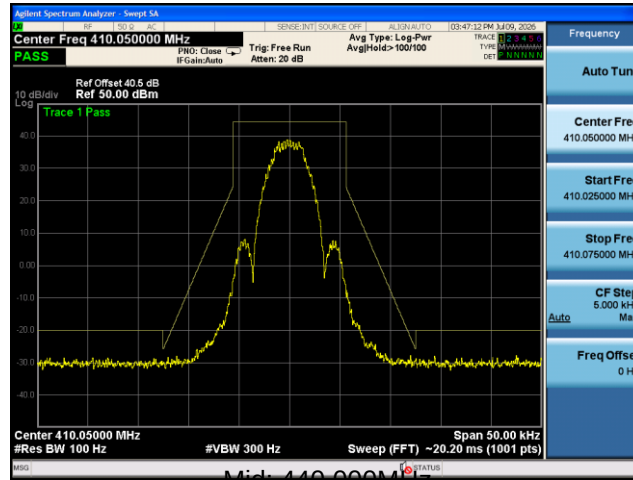


High: 470.00MHz

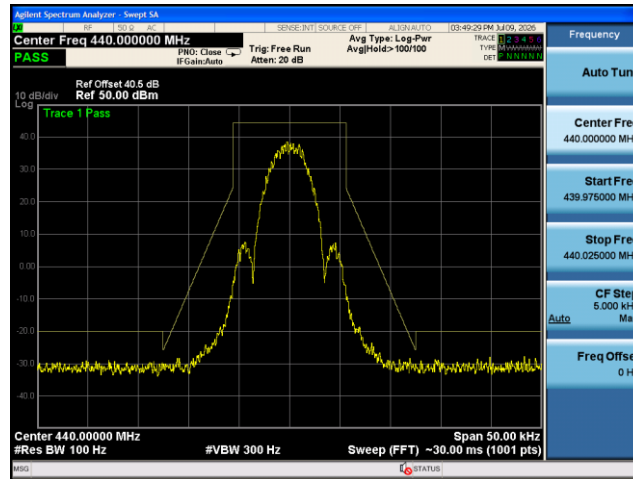


GMSK mode (27W) 12.5KHz Channel Spacing: Emission Mask

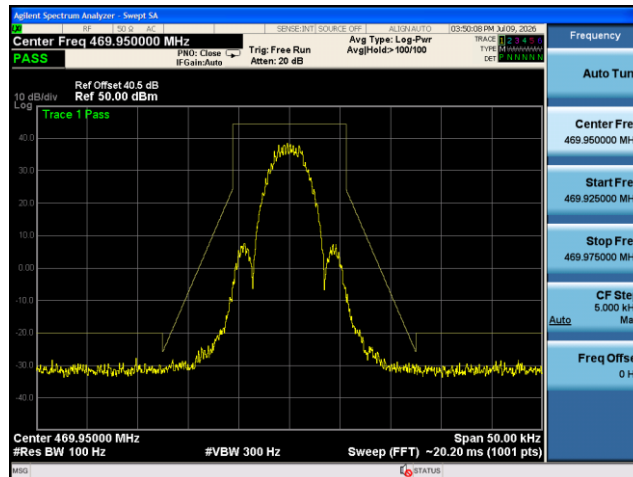
Low: 410.050MHz



Mid: 440.000MHz

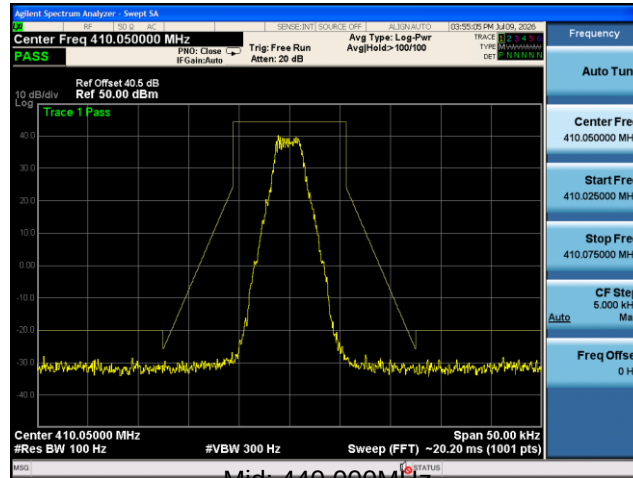


High: 469.950MHz

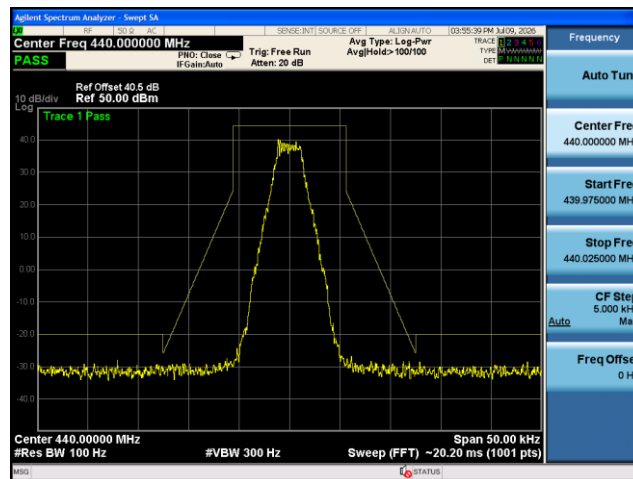


4FSK mode (27W) 12.5KHz Channel Spacing: Emission Mask

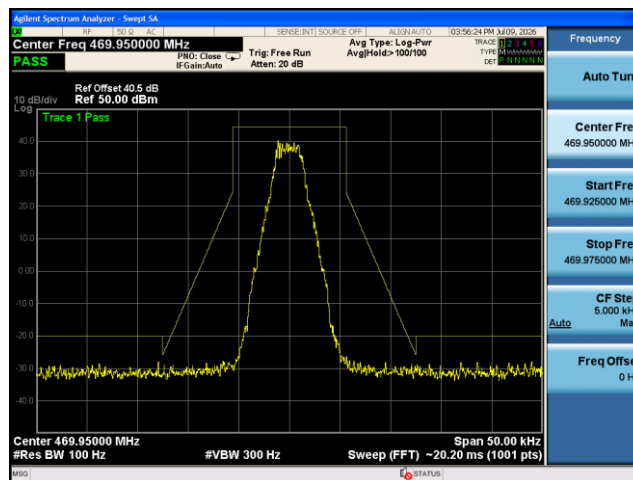
Low: 410.050MHz



Mid: 440.000MHz



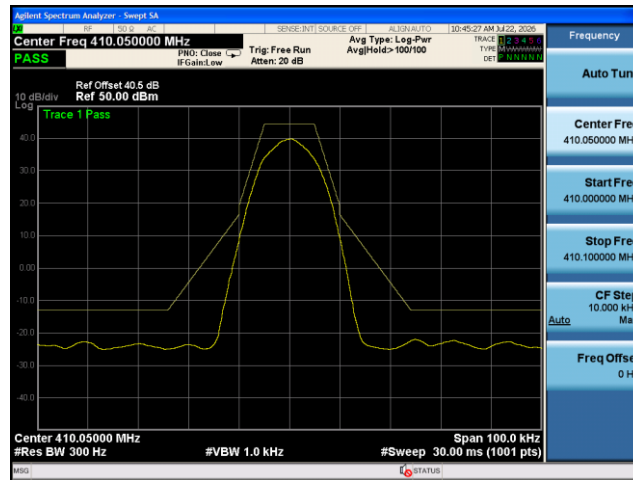
High: 469.950MHz



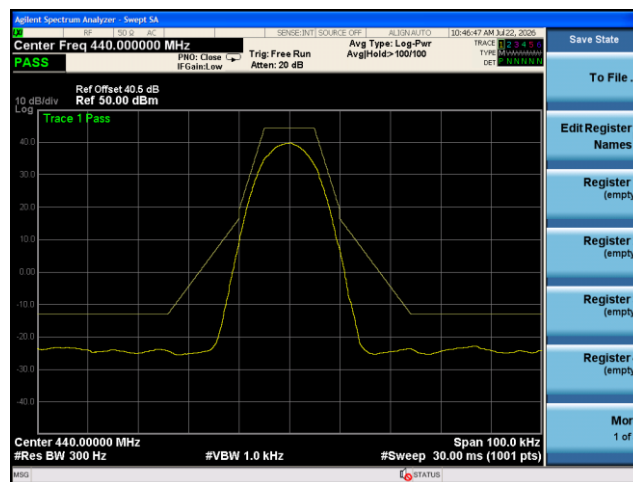


4FSK mode (27W) 25KHz Channel Spacing: Emission Mask

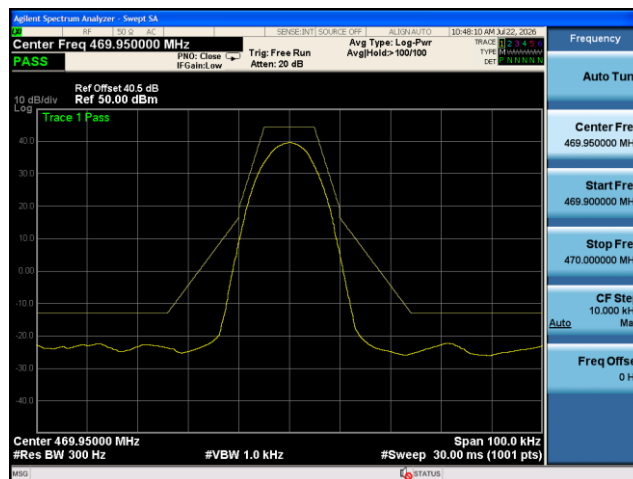
Low: 410.050MHz



Mid: 440.000MHz



High: 469.950MHz



4.3. Spurious Emissions(conducted)

4.3.1. Test Specification

Test Requirement:	FCC Part 90.210
Test Method:	FCC part 2.1051, ANSI C63.26-2015 Section 5.7
Test Setup:	 Spectrum Analyzer EUT
Test Limit:	Modulation Type: GMSK FCC Part 22.359, 74.462, 80.211 and 90.210: For 6.25 bandwidth: On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 4.6 kHz at least: $55 + 10 \log(P)$ or 65 dB, whichever is the lesser attenuation. Calculation: Limit (dBm) = $EL - 55 - 10 \log_{10}(TP)$ Notes: EL is the emission level of the Output Power expressed in dBm, For 12.5 bandwidth: On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz at least: $50 + 10 \log(P)$ dB or 70 dB, whichever is the lesser attenuation. Calculation: Limit (dBm) = $EL - 50 - 10 \log_{10}(TP)$ Notes: EL is the emission level of the Output Power expressed in dBm, For 25 kHz bandwidth: On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 62.5 kHz at least: Calculation: Limit (dBm) = $EL - 43 - 10 \log_{10}(TP)$ Note: 1. In general, the worst case attenuation requirement shown above was applied. For emission inside from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of channel spacing, emission mask limit should be compliant. 2. The measurement frequency range from 9 KHz to 5 GHz. 3. *** means that the emission level is too low to be measured or at least 20 dB down than the limit. 4. ERP for below 1GHz and EIRP above 1GHz.
Test Result:	PASS