



Engineering Solutions & Electromagnetic Compatibility Services

FCC Certification Application Report

**L3Harris Technologies, Inc.
221 Jefferson Ridge Parkway
Lynchburg, VA 24501**

**Models: XL-200P Multi-Band Portable Radio
VHF/UHF/700/800 MHz**

&

**XL-185P Single-Band Portable Radio
XL-150P Single-Band Portable Radio
(UHF, VHF, or 700/800 MHz)**

FCC ID: OWDTR-0179-E

March 13, 2026

Standards Referenced for this Report	
Part 2: 2026	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
Part 22: 2026	Public Mobile Services
Part 74: 2026	Experimental Radio, Auxiliary, Special Broadcast and Other Program Distributional Services
Part 80: 2026	Stations In The Maritime Services
Part 90: 2026	Private Land Portable Radio Services
ANSI C63.26-2017	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

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Document Number: 2025003TNF

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This report replaces R1.2.*

*These tests are accredited and meet the requirements of ISO/IEC 17025 as verified by ANAB.
Refer to certificate and scope of accreditation AT-1445.*

FCC Equipment Class: TNF

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Transmit Power (W) (Conducted)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	22, 74, 80	136–174	6.0	0.19	16K0F3E	Analog Voice; WB
EF	22, 74, 80, 90	136–174	6.0	0.19	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	22, 74, 80	136–174	6.0	0.19	11K0F3E	Analog FM (Narrowband)
EF	22, 74, 80, 90	136–174	6.0	0.19	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF	22, 74, 80, 90	136–174	6.0	0.19	8K10DXW	H-CPM (TDMA) Data & Voice
EF	90	136–174	6.0	0.19	14K0F3E	Analog FM (NPSPAC)
EF	90	136–174	6.0	0.19	14K0F3E	
EF	90	136–174	6.0	0.19	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF	90	136–174	6.0	0.19	16K0F1D/E	
EF	22, 74, 80	378-406.0	5.0	0.25	16K0F3E	Analog FM (Wideband)
EF	22, 74, 80	406.1-522	5.0	0.22	16K0F3E	
EF	90	378-406.0	5.0	0.25	14K0F3E	Analog FM (NPSPAC)
EF	90	406.1-522	5.0	0.22	14K0F3E	
EF	22, 74, 80	378-406.0	5.0	0.25	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	22, 74, 80	406.1-522	5.0	0.22	14K0F1D/E	
EF	22, 74, 80, 90	378-406.0	5.0	0.25	11K0F3E	Analog FM (Narrowband)
EF	22, 74, 80, 90	406.1-522	5.0	0.22	11K0F3E	
EF	22, 74, 80, 90	378-406.0	5.0	0.25	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF	22, 74, 80, 90	406.1-522	5.0	0.22	11K7F1D/E	
EF	22, 74, 80, 90	378-406.0	5.0	0.25	8K10DXW	H-CPM (TDMA) Data & Voice
EF	22, 74, 80, 90	406.1-522	5.0	0.22	8K10DXW	

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Transmit Power (W) (Conducted)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	90	378-406.0	5.0	0.25	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF	90	406.1-522	5.0	0.22	16K0F1D/E	
EF	90	768-776	3.0	0.23	16K0F3E	Analog FM (Wideband)
EF	90	798-806	3.0	0.23	16K0F3E	
EF	90	768-776	3.0	0.23	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF	90	798-806	3.0	0.23	16K0F1D/E	
EF	90	768-776	3.0	0.23	14K0F3E	Analog FM (NPSPAC)
EF	90	798-806	3.0	0.23	14K0F3E	
EF	90	768-776	3.0	0.23	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	90	798-806	3.0	0.23	14K0F1D/E	
EF	90	768-776	3.0	0.23	11K0F3E	Analog FM (Narrowband)
EF	90	798-806	3.0	0.23	11K0F3E	
EF	90	768-776	3.0	0.23	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF	90	798-806	3.0	0.23	11K7F1D/E	
EF	90	768-776	3.0	0.23	8K40F1D/E	C4FM Data/Voice
EF	90	798-806	3.0	0.23	8K40F1D/E	
EF	90	768-776	3.0	0.23	8K10DXW	H-CPM (TDMA) Data & Voice
EF	90	798-806	3.0	0.23	8K10DXW	
EF	90	768-776	3.0	0.23	18K5F1W	HVD-SMR
EF	90	798-806	3.0	0.23	18K5F1W	
EF	90	768-776	3.0	0.23	12K9F1W	HVD-NPSPAC
EF	90	798-806	3.0	0.23	12K9F1W	

Grant Note	FCC Rule Part	Frequency Range (MHz)	Rated Transmit Power (W) (Conducted)	Frequency Tolerance (ppm)	Emission Designator	Transmit Mode
EF	90	806-824	3.0	0.52	16K0F3E	Analog FM (Wideband)
EF	90	851-869	3.0	0.52	16K0F3E	
EF	90	806-824	3.0	0.52	16K0F1D/E	2-level FSK 9600 Data/Digital Voice (Wideband)
EF	90	851-869	3.0	0.52	16K0F1D/E	
EF	90	806-824	3.0	0.52	14K0F3E	Analog FM (NPSPAC)
EF	90	851-869	3.0	0.52	14K0F3E	
EF	90	806-824	3.0	0.52	14K0F1D/E	2-level FSK 9600 Data/Digital Voice (NPSPAC)
EF	90	851-869	3.0	0.52	14K0F1D/E	
EF	90	806-824	3.0	0.52	11K0F3E	Analog FM (Narrowband)
EF	90	851-869	3.0	0.52	11K0F3E	
EF	90	806-824	3.0	0.52	11K7F1D/E	2-level FSK 9600 Data/Digital Voice (Narrowband)
EF	90	851-869	3.0	0.52	11K7F1D/E	
EF	90	806-824	3.0	0.52	8K10DXW	H-CPM (TDMA) Data & Voice
EF	90	851-869	3.0	0.52	8K10DXW	
EF	90	806-824	3.0	0.52	18K5F1W	HVD-SMR
EF	90	851-869	3.0	0.52	18K5F1W	
EF	90	806-824	3.0	0.52	12K9F1W	HVD-NPSPAC
EF	90	851-869	3.0	0.52	12K9F1W	

* power is conducted

This device contains functions that are not operational in U.S. territories except as noted in the filing. The grant is requested to list extended frequencies as noted in the filing, and Section 2.927(b) applies to this application.

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1 Test Result Summary Multi-Band Portable, VHF/UHF/700/800 MHz Radio

Test	FCC Reference	Result
RF Power Output	2.1046(a), 22.659, 74.461, 80.215, 90.541(d)	Complies
Spurious Emissions at Antenna Terminals	2.1051, 22.359, 80.217, 90.210	Complies
Field Strength of Spurious Radiation	2.1053(a), 22.359, 80.211(f)(3), 90.210, 90.543(c)	Complies
Occupied Bandwidth/Emission Masks	2.1049(c)(1), 22.359(b), 74.462, 80.205, 80.211, 90.210	Complies
Frequency Stability vs. Temperature and Voltage	2.1055, 22.355, 74.464, 80.209, 90.213, 90.539	Complies
Modulation Characteristics	2.1047(a)(b), 74.463, 80.213	Complies
Transient Frequency Response	74.462(c), 90.214	N/A

2 General Information

The following Certification Report is prepared on behalf of L3Harris Technologies, Inc. in accordance with the Federal Communications Commission rules and regulations. The Equipment Under Test (EUT) was the XL-200P Multi-Band Portable Radio, VHF/UHF/700/800 MHz, FCC ID: OWDTR-0179-E.

The radio is subject to FCC SDoC. FCC SDoC testing was performed, and the data is contained in a separate SDoC report.

All measurements contained in this application were conducted in accordance with the applicable sections of FCC Rules and Regulations CFR 47 Parts 2, 22, 74, 80, and 90. Calibration checks are performed regularly on the instruments and all accessories, including the high pass filter, coaxial attenuator, preamplifier, and cables.

2.1 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the parking lot of Rhein Tech Laboratories, Inc. 360 Herndon Parkway, Suite 1400, Herndon, Virginia 20170.

2.2 Measurement Uncertainty

The measurement uncertainty complies with CISPR 16-4-2 limits and is not used to adjust measurements for compliance determination. Expanded uncertainty (U) for each scope, calculated per ANSI/NCSL Z540-2-1997 (R2002) with a type B evaluation, is provided in this RTL report. While this demonstrates RTL's commitment to transparency, compliance decisions are based solely on comparing measured values directly to the relevant standards' limits.

2.3 Related Submittal(s)/Grant(s)

This is an original certification application for L3Harris Technologies, Inc. Model XL-200P Multi-Band Portable Radio, FCC ID: OWDTR-0179-E. This application also includes the XL-185P Single-Band Portable Radio and the XL-150P Single-Band Portable Radio, available with VHF, or UHF or 700/800 MHz. The XL-200P, the XL-185P and the XL-150P are identical in RF circuitry, PCB layout and antenna systems. The core frequency components and electrical characteristics are the same across all models.

2.4 Grant Notes

RF power is switchable from 0.1W to a rated power of 6W.

Manufacturer's rated power: VHF = 6W, UHF = 5W, 700/800 MHz = 3W.

2.5 EUT Exercise Description

The EUT was supplied with the ability to change LMR, Bluetooth, and Wi-Fi frequencies for testing radiated emissions and collocation of various frequencies. Note that EUT includes Texas Instruments Inc. module FCC ID: Z64-WL18DBMOD. Simultaneous transmissions were tested for both EMC and SAR.

The radiated emissions investigation was conducted with the LMR evaluated in two configurations, with the integrated LTE radio installed and with the LTE radio removed or disabled. Comparative investigative measurements were performed across the applicable frequency ranges for both configurations. No discernible differences in radiated emissions levels, emission profiles, or worst-case orientations were observed between the LMR with the LTE radio present and the LMR without the LTE radio. The presence of the LTE radio did not introduce new emission peaks, shift existing emissions, or change the compliance margin relative to the applicable limits.

The EUT was tested in all three orthogonal planes in order to determine worst case emissions. EUT software version R18A03.0074 allows the tester to enable continuous transmit during testing.

The carrier was also checked to verify that information was being transmitted. There were no deviations from the test standards(s) and/or methods. The test results reported relate only to the item tested.

The EUT was configured for testing in a manner simulating a typical end-user configuration. All circuitry, clocks, and oscillators were powered, and all functions were active. Applicable I/O ports to be cabled or loaded included Ethernet and data programming cables. For testing purposes, the EUT was programmed using a generic programming board.

2.6 Tested System Details

The test sample was received on January 25, 2025. Listed below are the identifiers and descriptions of all equipment, cables, and internal devices used with the EUT for this test, as applicable. The device was programmed for multiple modes of operation and modulation types.

Table 2-1: Equipment Under Test (EUT)

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
Portable Radio (w/ LTE)	L3Harris Technologies, Inc.	XL-200P	14038-1010-01	OWDTR-0179-E	24461
Portable Radio (w/ LTE)	L3Harris Technologies, Inc.	XL-200P	14038-1010-01	OWDTR-0179-E	24463
LTE	Sierra Wireless	EM7595	N/A	N7NEM75Y	N/A
LTE	Sierra Wireless	EM7511	N/A	N7NEM75S	N/A
Portable Radio (No LTE)	L3Harris Technologies, Inc.	XL-200P	14038-1020-01/ A40342F00081	Engineering Sample	24498

Table 2-2: Auxiliary Equipment

Part	Manufacturer	Model	PN/SN	FCC ID	RTL Bar Code
Full Spectrum Antenna	L3Harris Technologies, Inc.	136-870 MHz	14035-4000-01	N/A	23499
Wideband Whip Antenna	L3Harris Technologies, Inc.	378-520 MHz, 762-870 MHz	14035-4420-01	N/A	22630
Whip Antenna, 1/2 Wave	L3Harris Technologies, Inc.	762-870 MHz	14035-4440-01	N/A	22284
Whip Antenna, 1/4 Wave	L3Harris Technologies, Inc.	762-870 MHz	14035-4440-02	N/A	226626
Microphone	L3Harris Technologies, Inc.	14050-6010-01 Rev AA00503	F2P22143	N/A	24462
7.2V Li-Ion Battery	Richcom Power	RXL200H-Li	B730R	N/A	24407
7.2V Li-Ion Battery	Harris	N/A	14035-4010-01/009833	N/A	23103
7.2V Li-Ion Battery	Harris	N/A	14036-4020-02/019087	N/A	24560
7.2V Li-Ion Battery	Harris	N/A	14035-4045-02/034728	N/A	24562

2.6.1 Configuration of Tested System

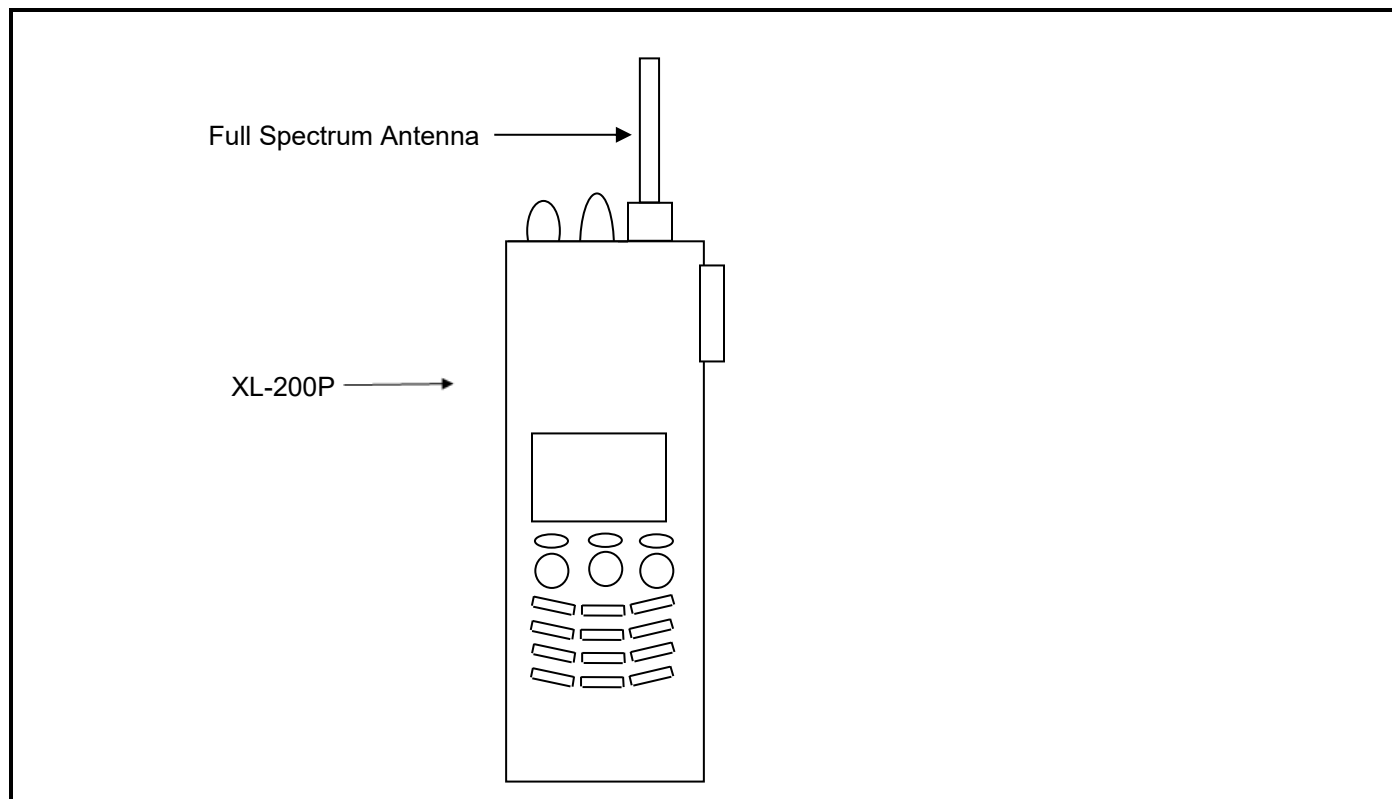


Figure 2-1: Configuration of Tested System

3 FCC Part 2.1033(C)(8): Voltages and Currents through the Final Amplifying Stage

7.2 VDC / 1.7 A

4 FCC Part 2.1046(a): RF power output: Conducted; Part 90.541(d) Transmitting power and antenna height requirements; §80.215: Transmitter Power; §22.659: Effective Radiated Power Limits; Part 74.461: Transmitter Power

4.1 Test Procedure

ANSI C63.26, section 5.2

The EUT was connected to a coaxial attenuator having a 50 Ω load impedance. Manufacturer's rated power: VHF 6W, UHF 5W, 700/800 MHz bands 3 W.

Table 4-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
02/04/2025	23.8	23	100.5

4.2 Test Data

Table 4-2: RF Conducted Output Power – Measured

Frequency (MHz)	High Power (dBm)	High Power (W)
136.0125	37.8	6.0
156.8000	38.0	6.3
173.9875	38.2	6.6
378.0125	37.5	5.7
392.0000	37.5	5.6
405.9875	37.5	5.6
406.1125	37.5	5.6
464.0000	37.4	5.4
521.9785	37.0	5.0
768.0125	34.3	2.7
772.0000	34.4	2.7
775.9875	34.4	2.8
798.0125	34.6	2.9
802.0000	34.9	3.1
805.9875	35.2	3.3
806.0125	35.2	3.3
815.0000	35.2	3.3
823.9875	35.1	3.3
851.0125	35.3	3.4
860.0000	35.4	3.5
868.9875	35.4	3.4

Notes: The Data presented is for the analog mode. All other modes were investigated and found to have equivalent power within measurement tolerances.

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level, using a coverage factor of $K = 2$. Measurement uncertainty: ± 0.5 dB

Table 4-3: Test Equipment Used For Testing RF Power Output - Conducted

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901184	Agilent Technologies	E4416A	EPM-P Power Meter, single channel	GB41050573	05/17/2027
901685	Agilent	E4412A	Power Sensor	MY41501646	05/17/2027

Results: Pass

Test Personnel:

Daniel W. Baltzell
EMC Test Engineer



Signature

February 4, 2025
Date of Test

5 FCC Part 2.1051: Spurious Emissions at Antenna Terminals; Part 90.210: Emission Limitations; §80.217: Suppression of Interference Aboard Ships; §22.359: Emission Limitations

5.1 Test Procedure

ANSI C63.26, Section 5.7

The transmitter is terminated with a 50 Ω load and interfaced with a spectrum analyzer.

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

Table 5-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
02/08/2025	24.2	23	101.3
04/15/2025	24.2	28	99.1
05/17/2025	23.7	29	101.3

5.2 Test Data

Frequency range of measurement per Part 2.1057: 9 kHz to 10 x Fc

Limits: (43+10LOG P(W)) for wideband and 50 + 10 LOG P(W)) for narrowband

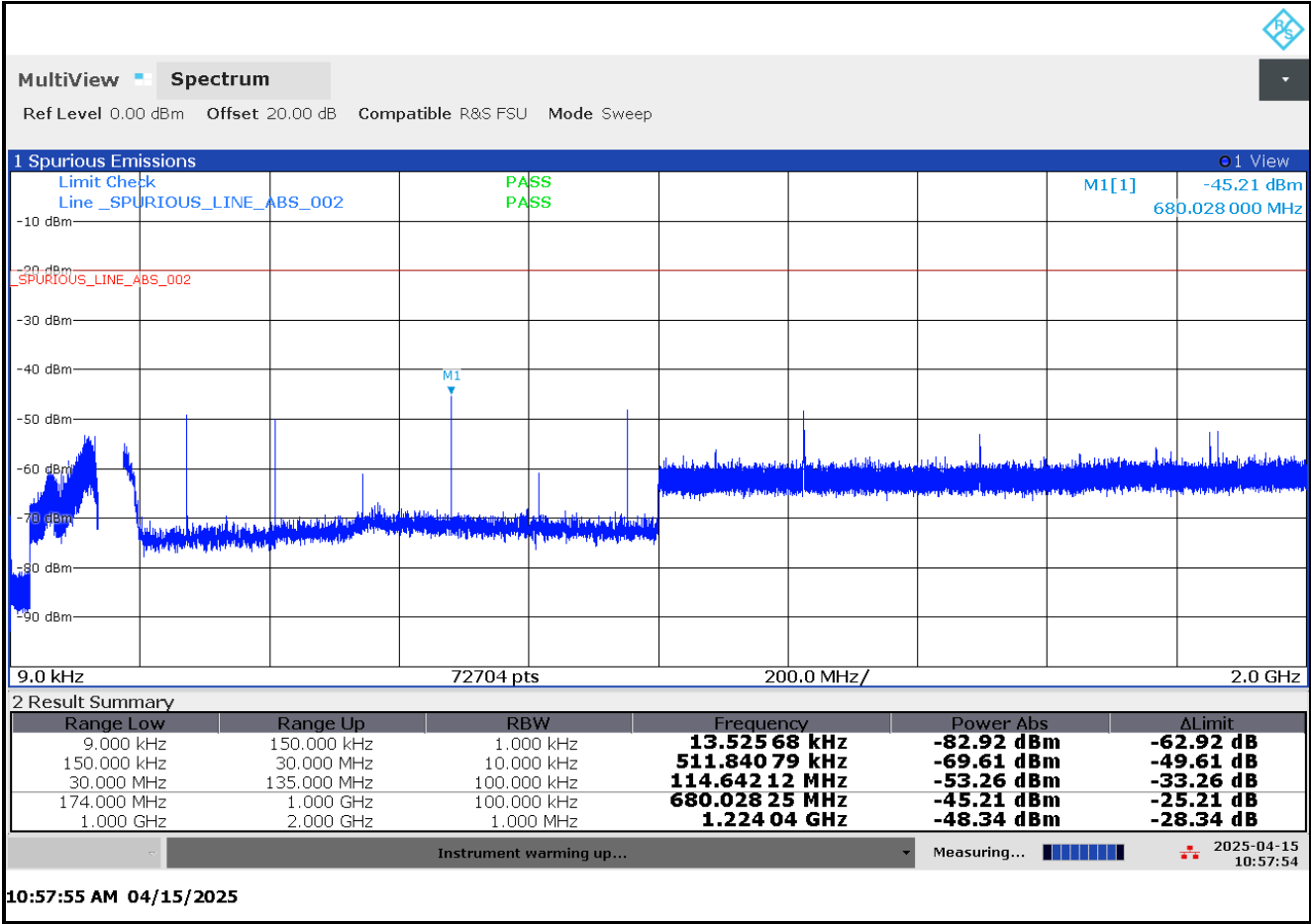
The following channels (in MHz) were investigated:

VHF (MHz)	UHF (MHz)
136.0125	378.0125
156.8000	392.0000
173.9875	405.9875
	406.1125
	464.0000
	521.9785

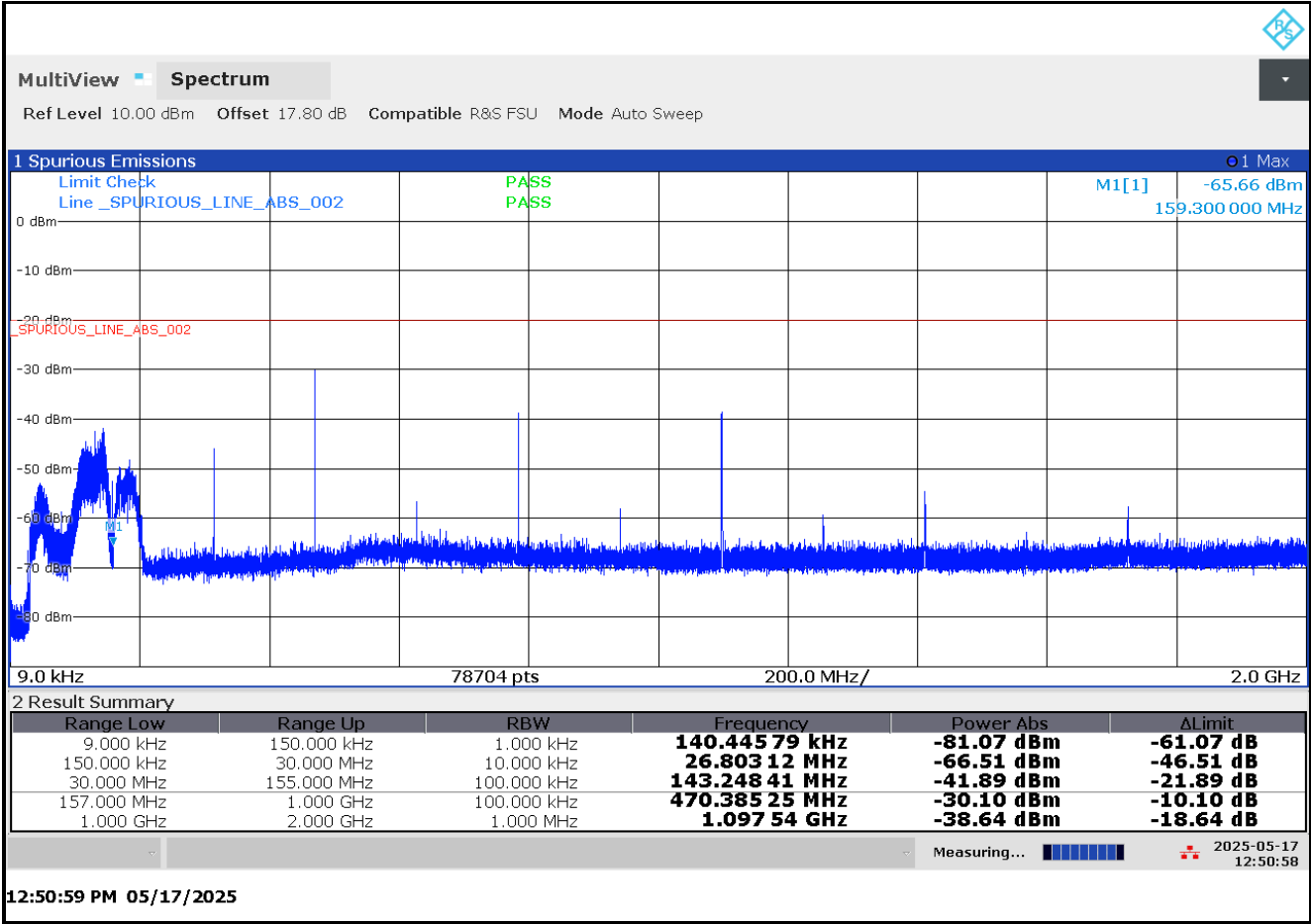
700 MHz	800 MHz
768.0125	806.0125
772.0000	815.0000
775.9875	823.9875
798.0125	851.0125
802.0000	860.0000
805.9875	868.9875

Both high and low power settings were checked; high power was found to be the worst case and is presented. All modes were investigated.

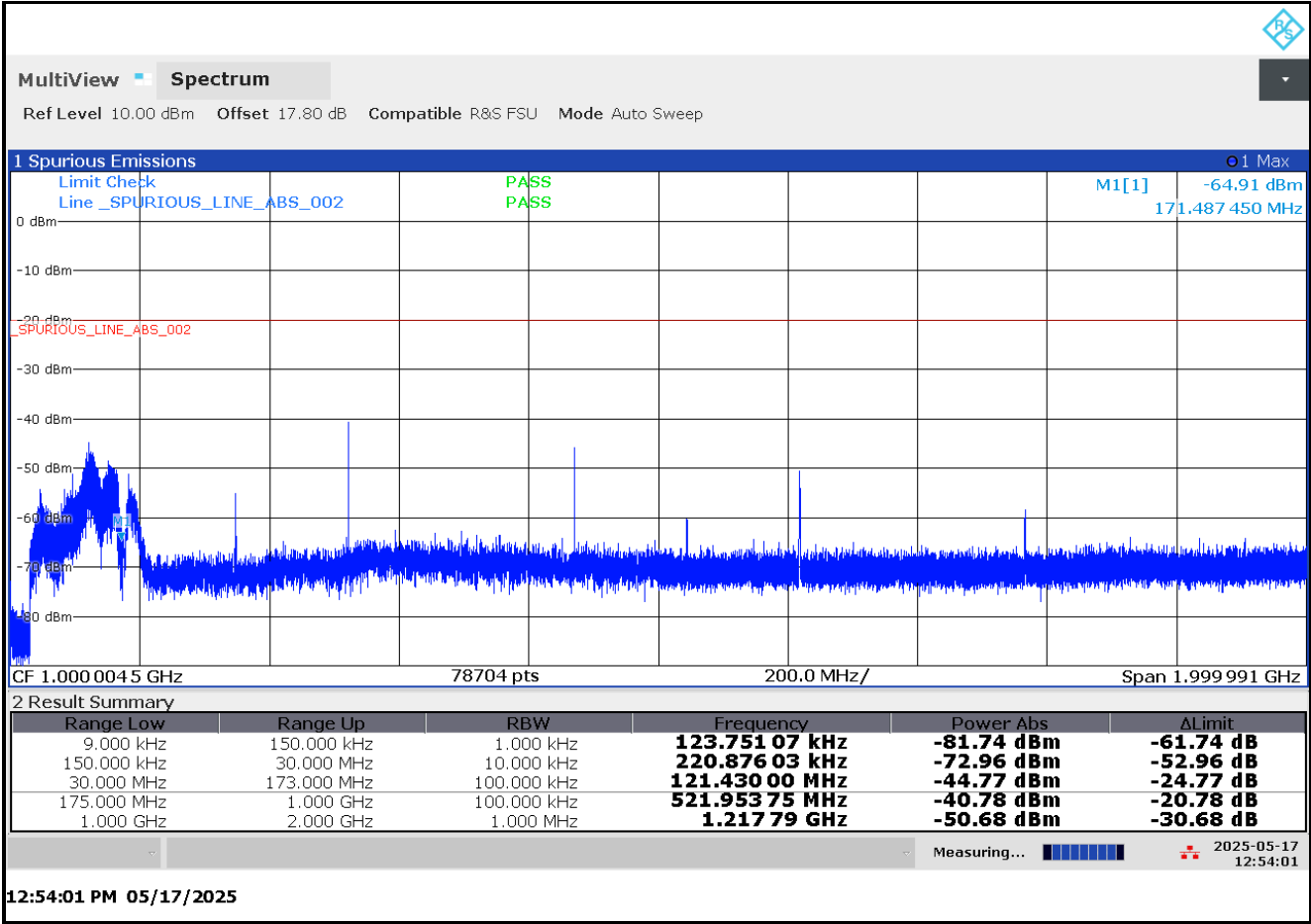
Plot 5-1: Spurious Emissions at Antenna Terminals – 136.0125 MHz



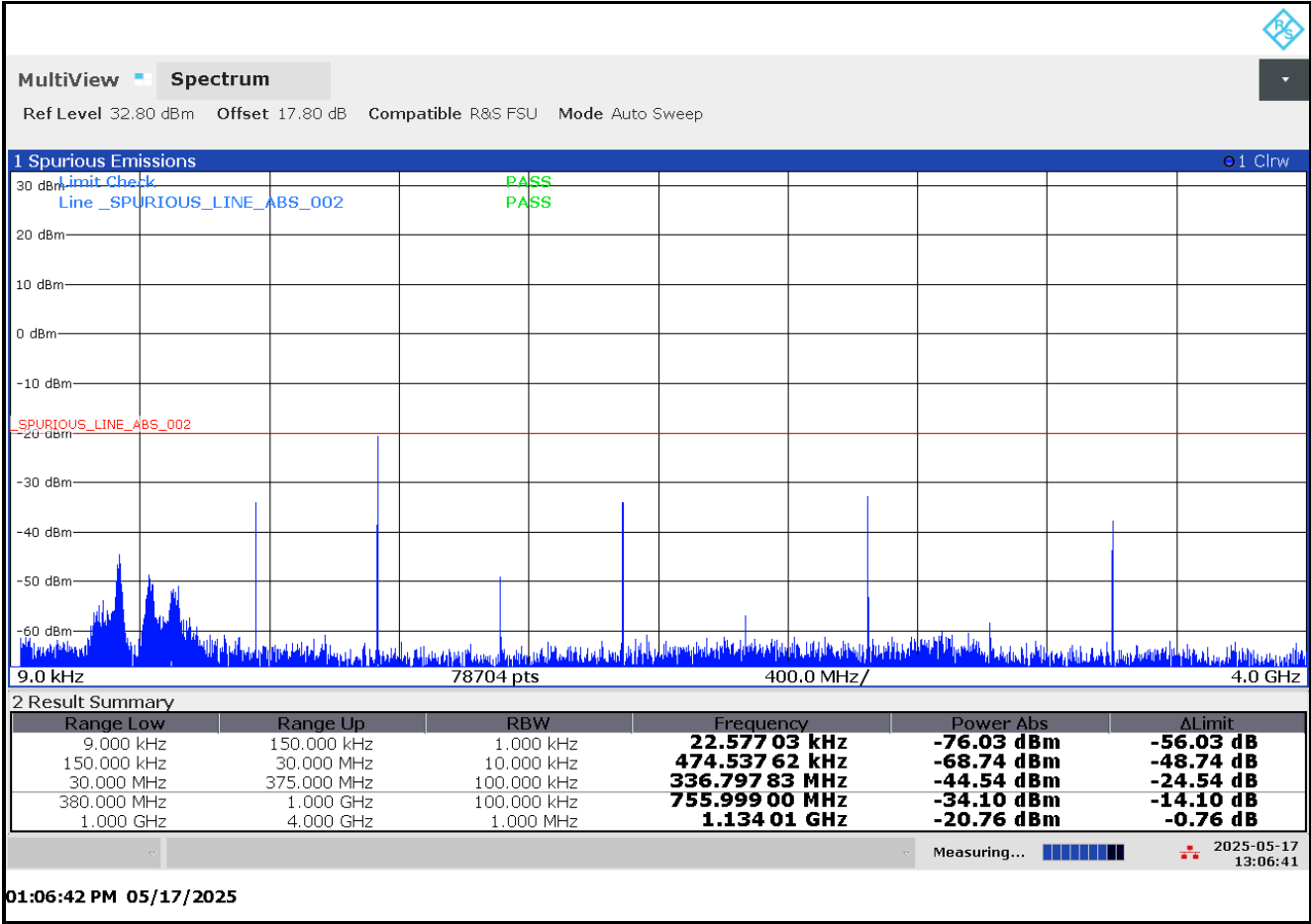
Plot 5-2: Spurious Emissions at Antenna Terminals – 156.8000 MHz



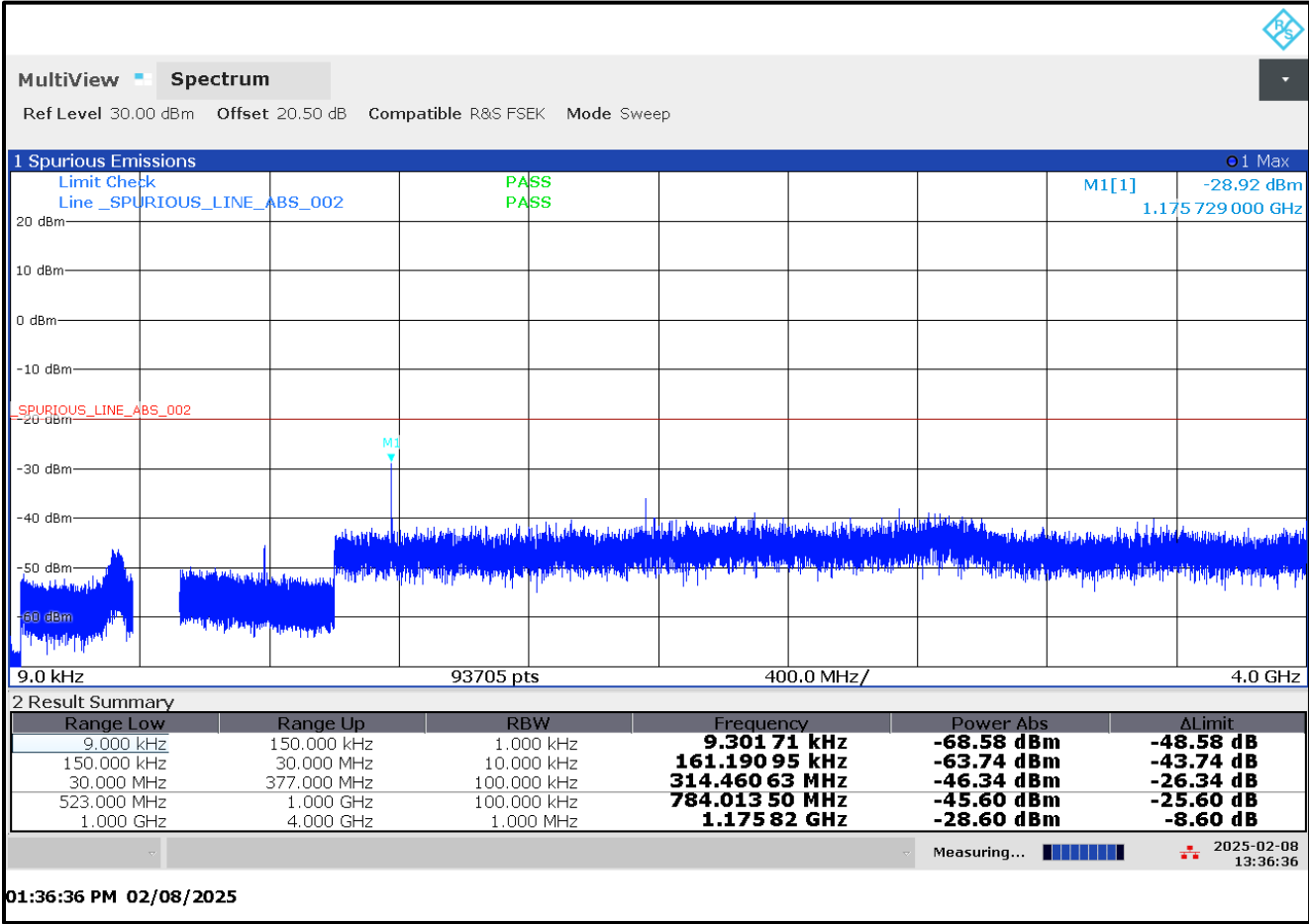
Plot 5-3: Spurious Emissions at Antenna Terminals – 173.9875 MHz



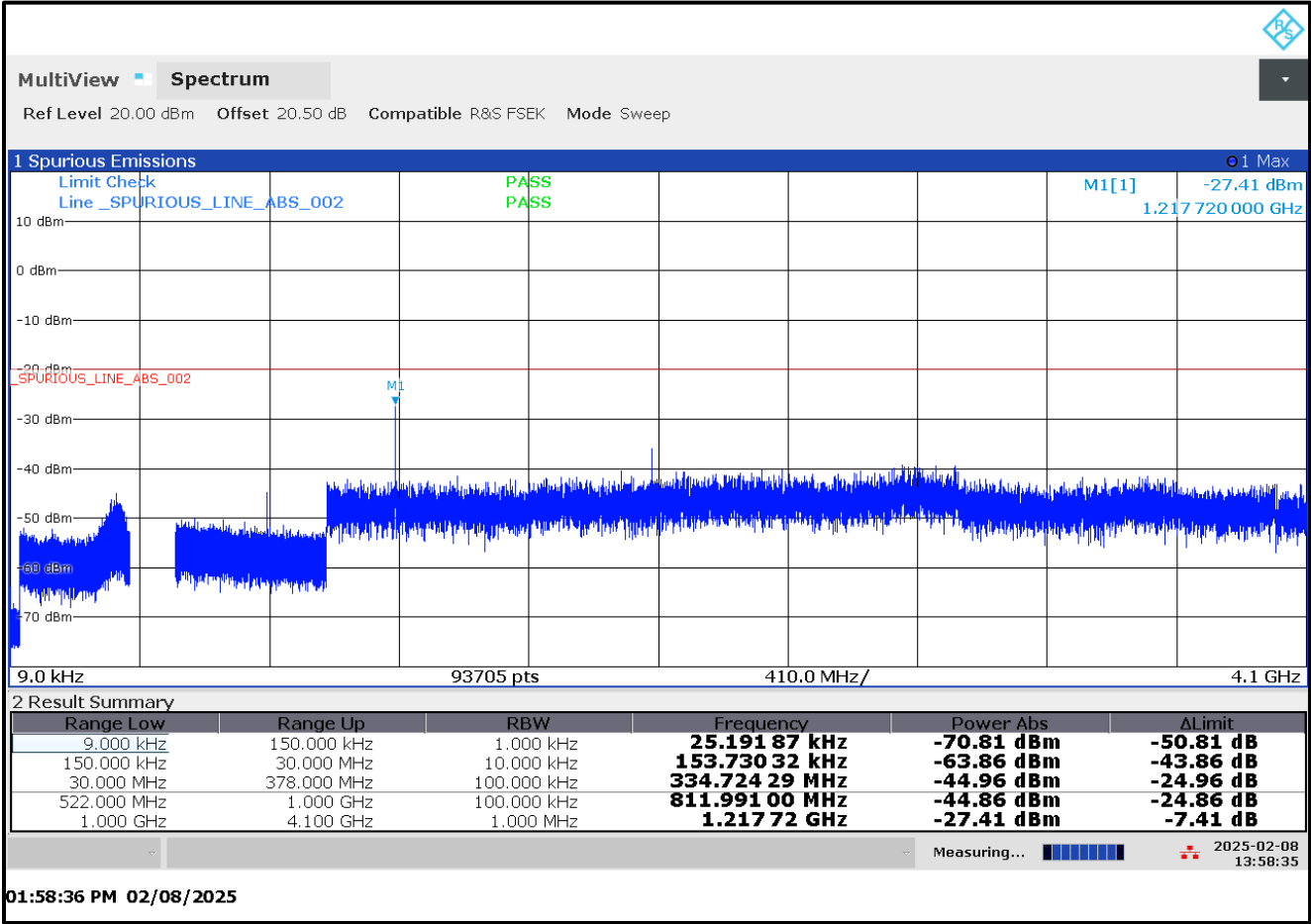
Plot 5-4: Spurious Emissions at Antenna Terminals – 378.0125 MHz



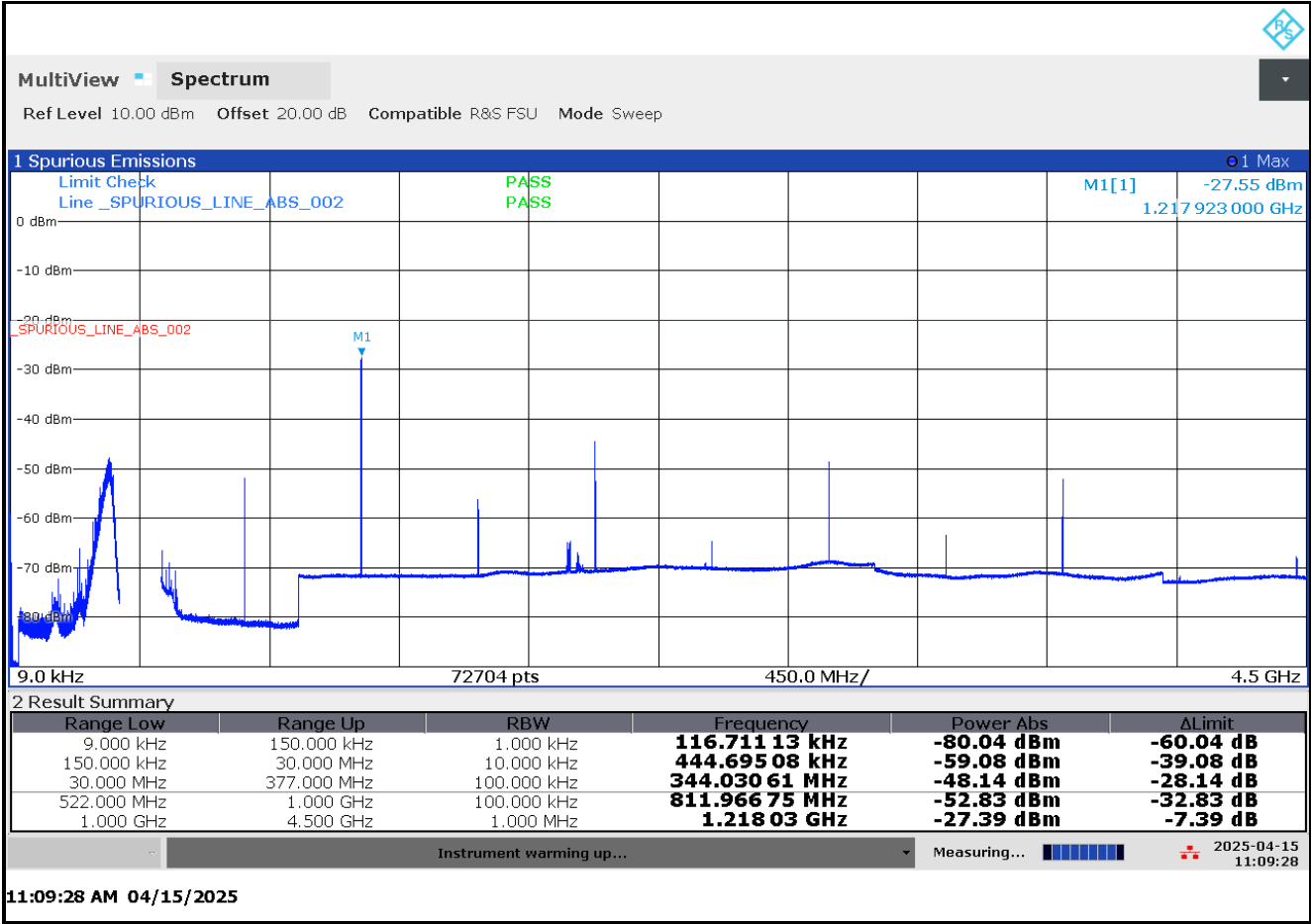
Plot 5-5: Spurious Emissions at Antenna Terminals – 392.0000 MHz



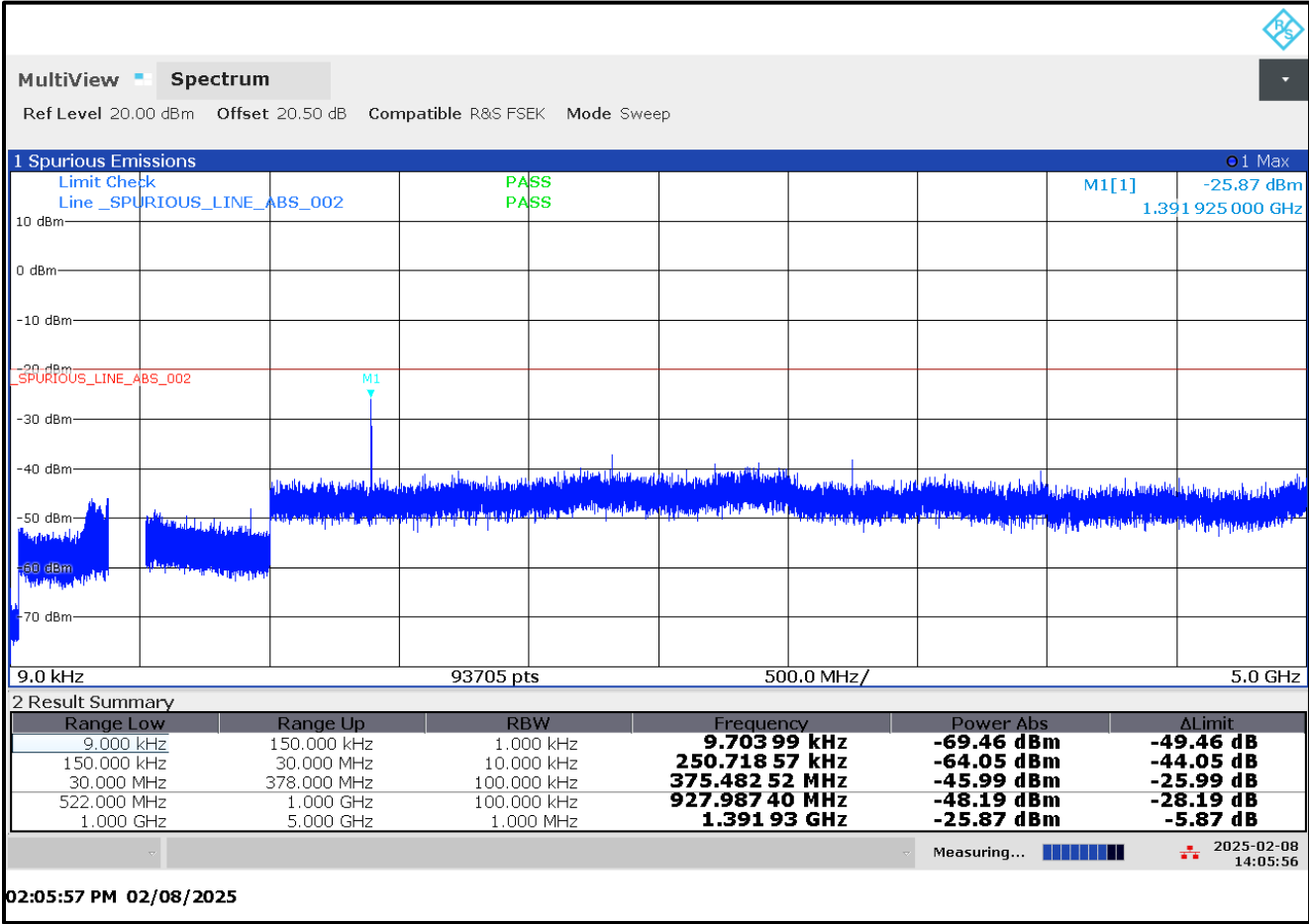
Plot 5-6: Spurious Emissions at Antenna Terminals – 405.9875 MHz



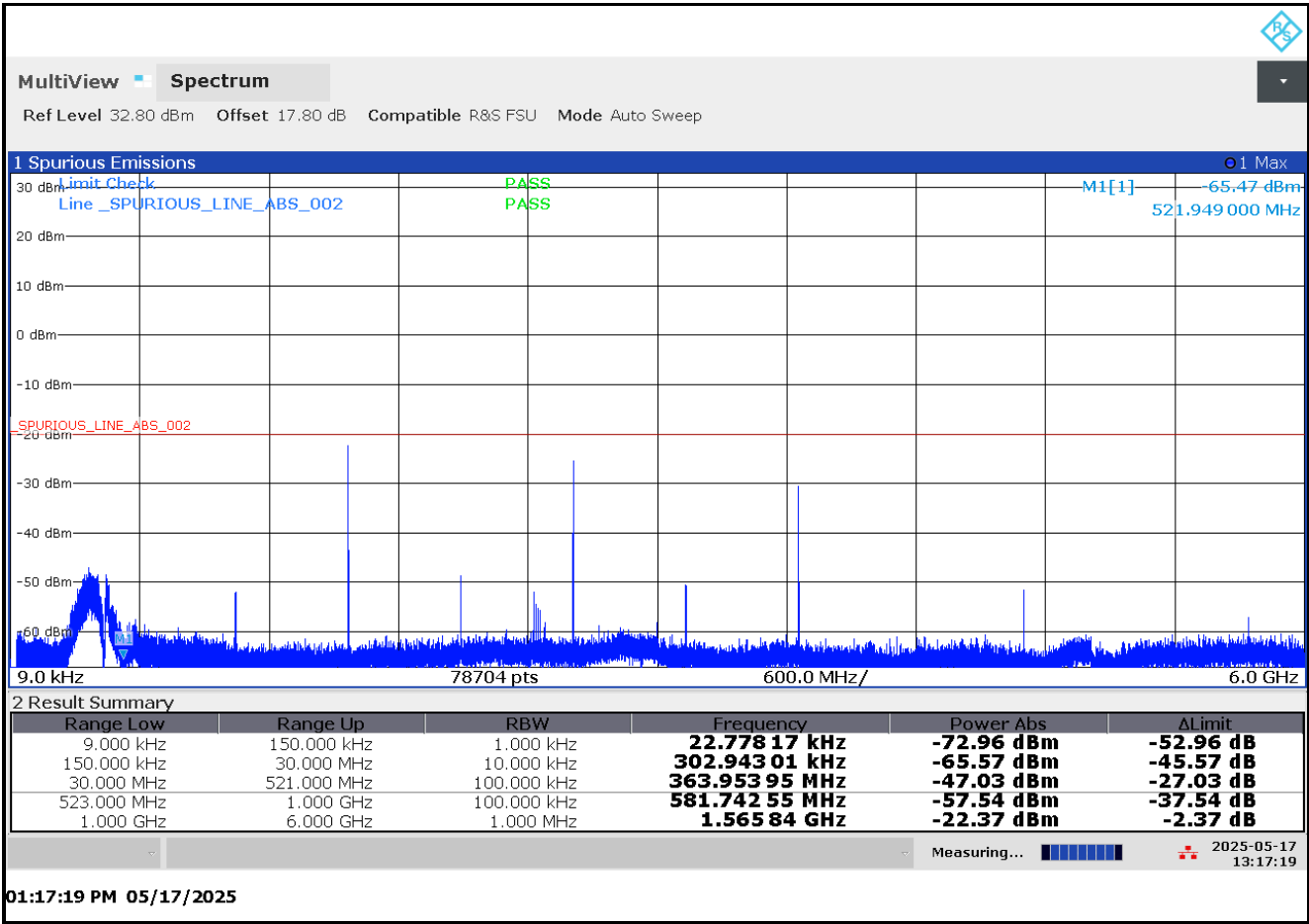
Plot 5-7: Spurious Emissions at Antenna Terminals – 406.1125 MHz



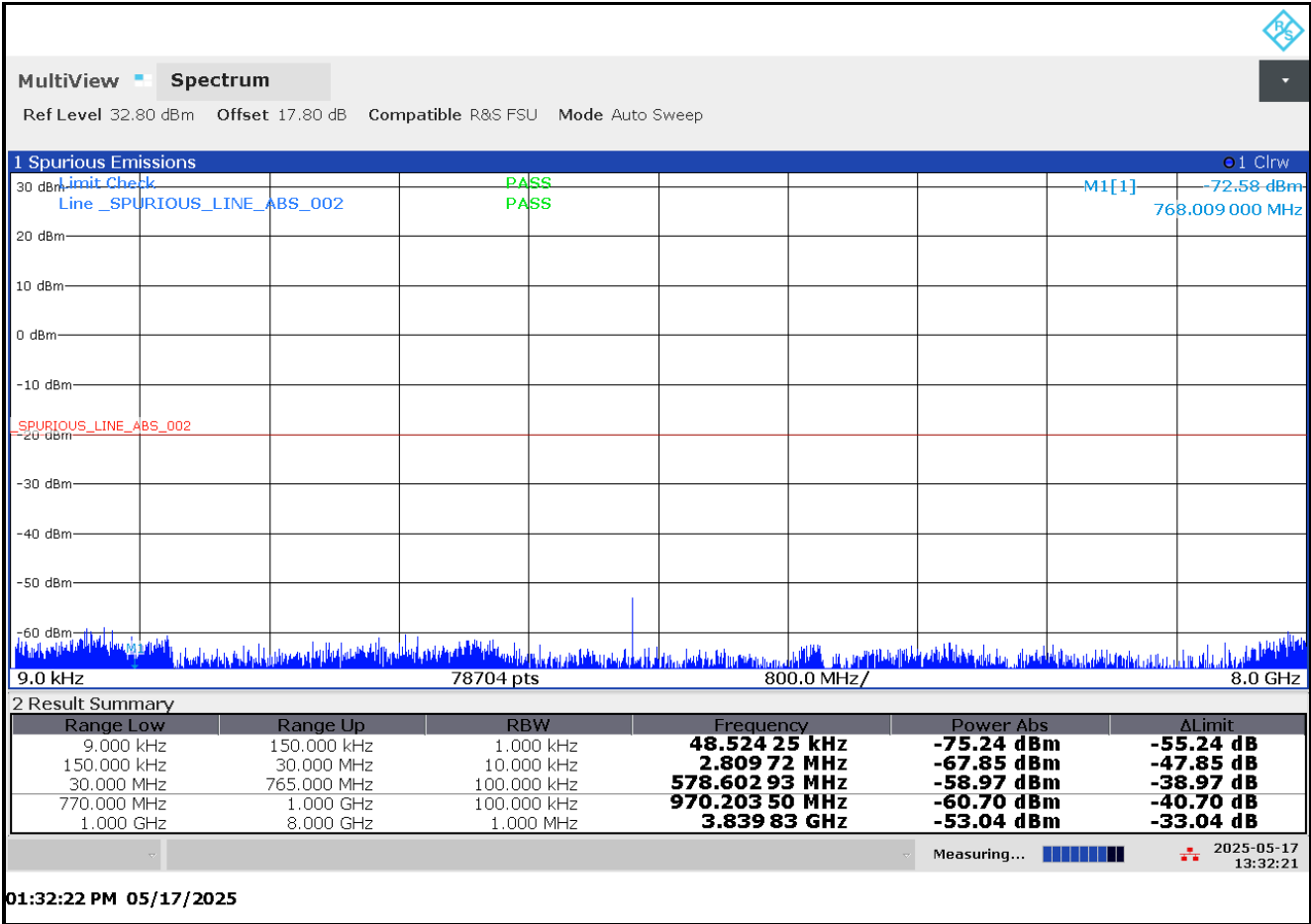
Plot 5-8: Spurious Emissions at Antenna Terminals – 464.0000 MHz



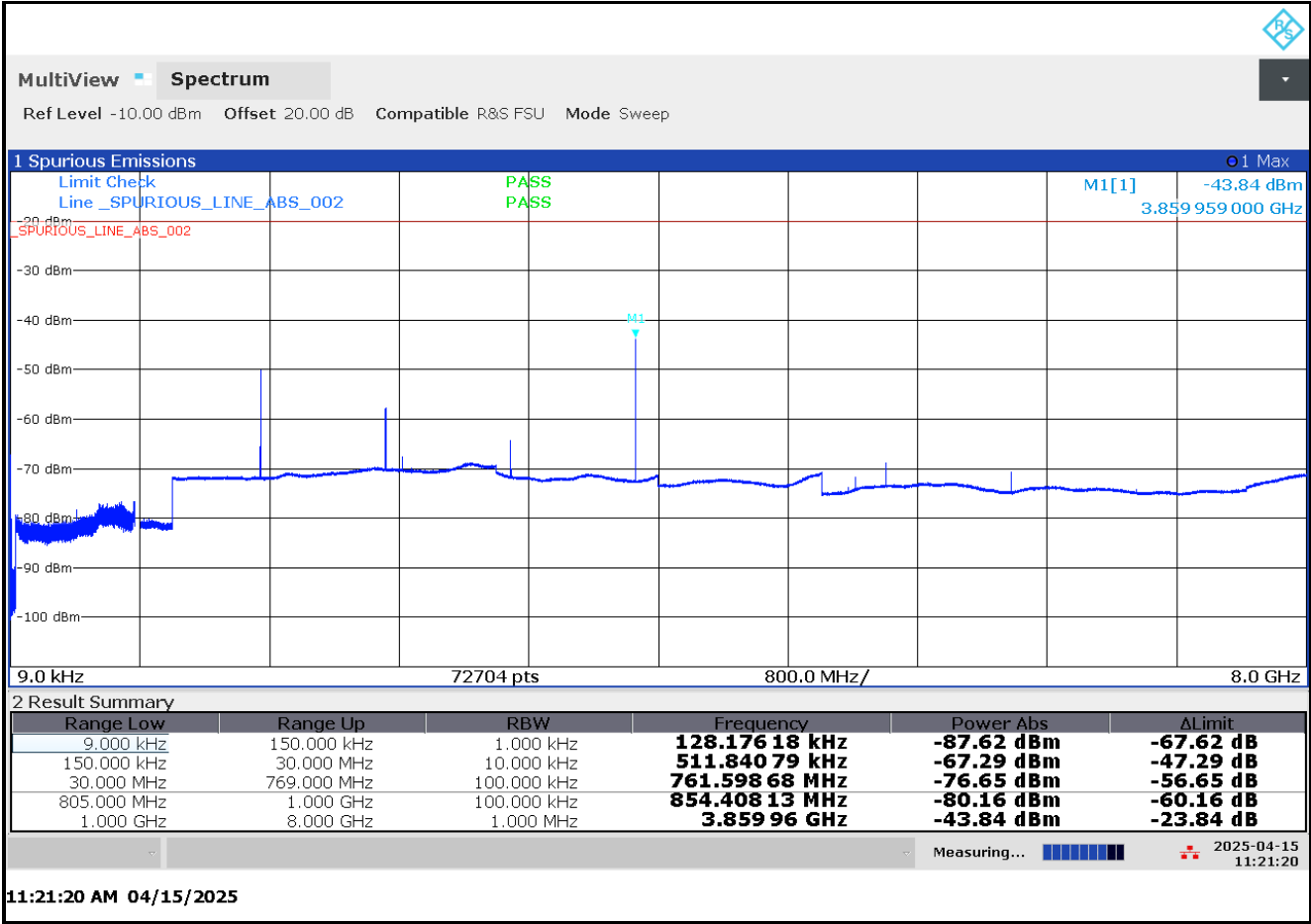
Plot 5-9: Spurious Emissions at Antenna Terminals – 521.9785 MHz



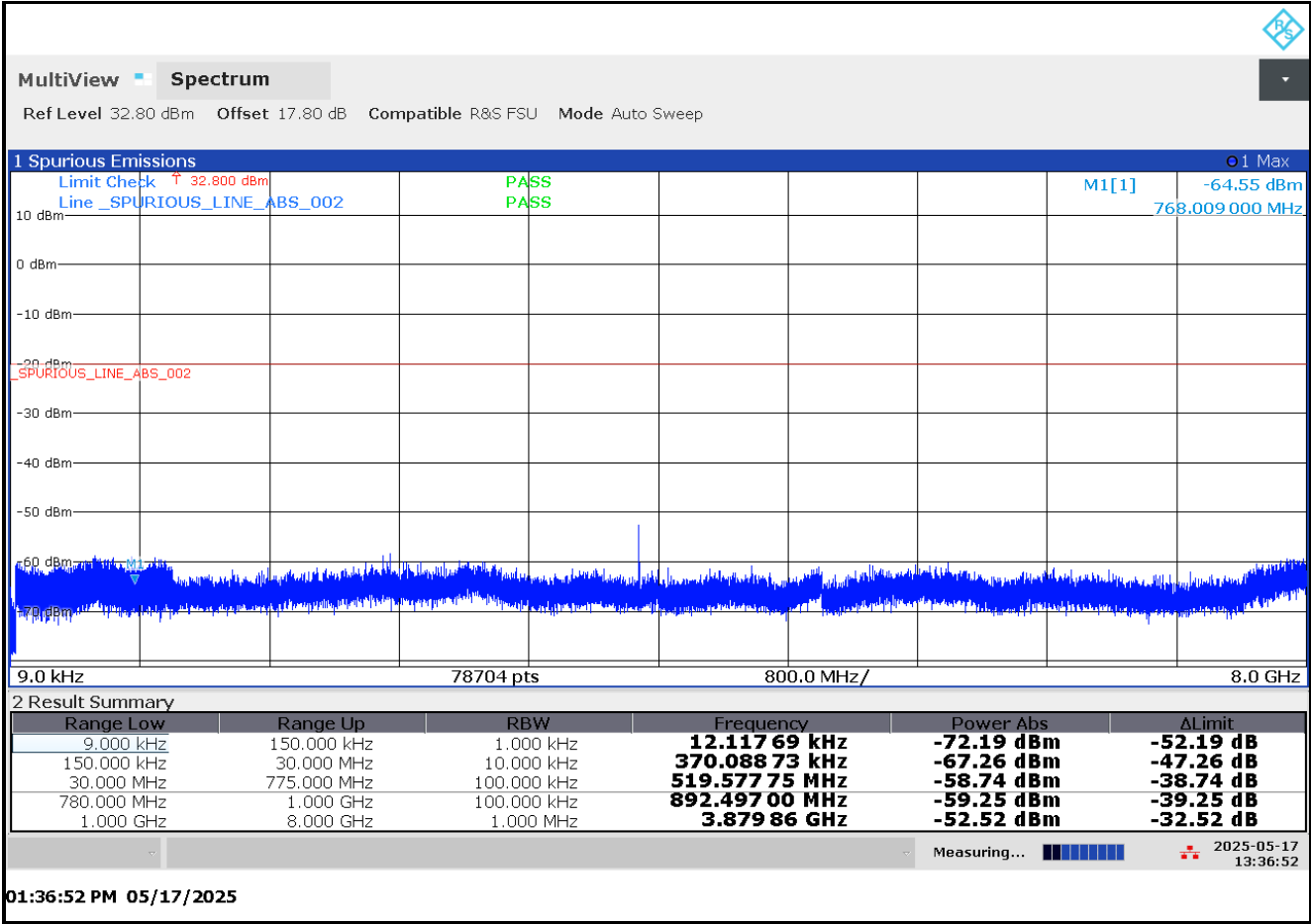
Plot 5-10: Spurious Emissions at Antenna Terminals – 768.0125 MHz



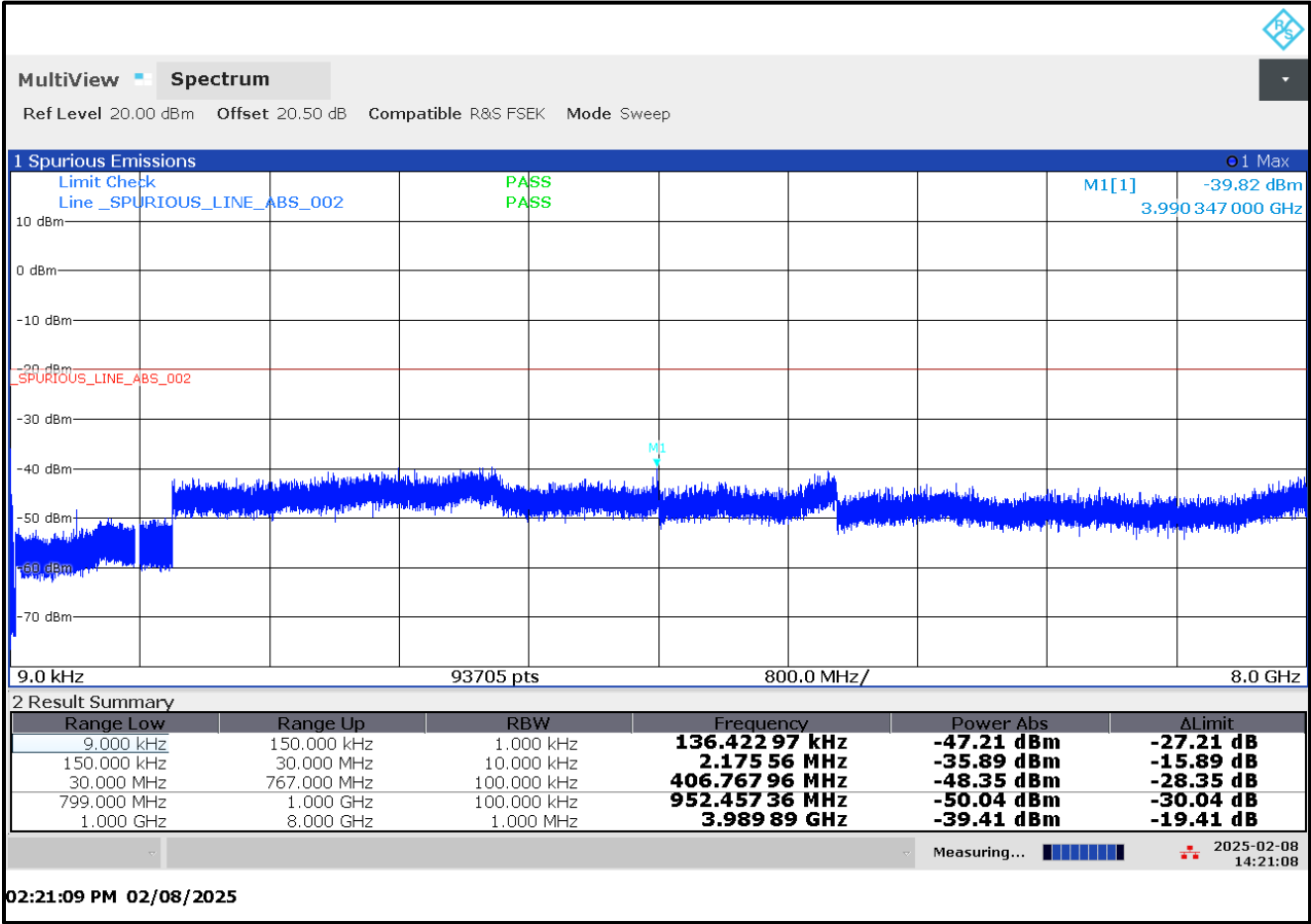
Plot 5-11: Spurious Emissions at Antenna Terminals – 772.0000 MHz



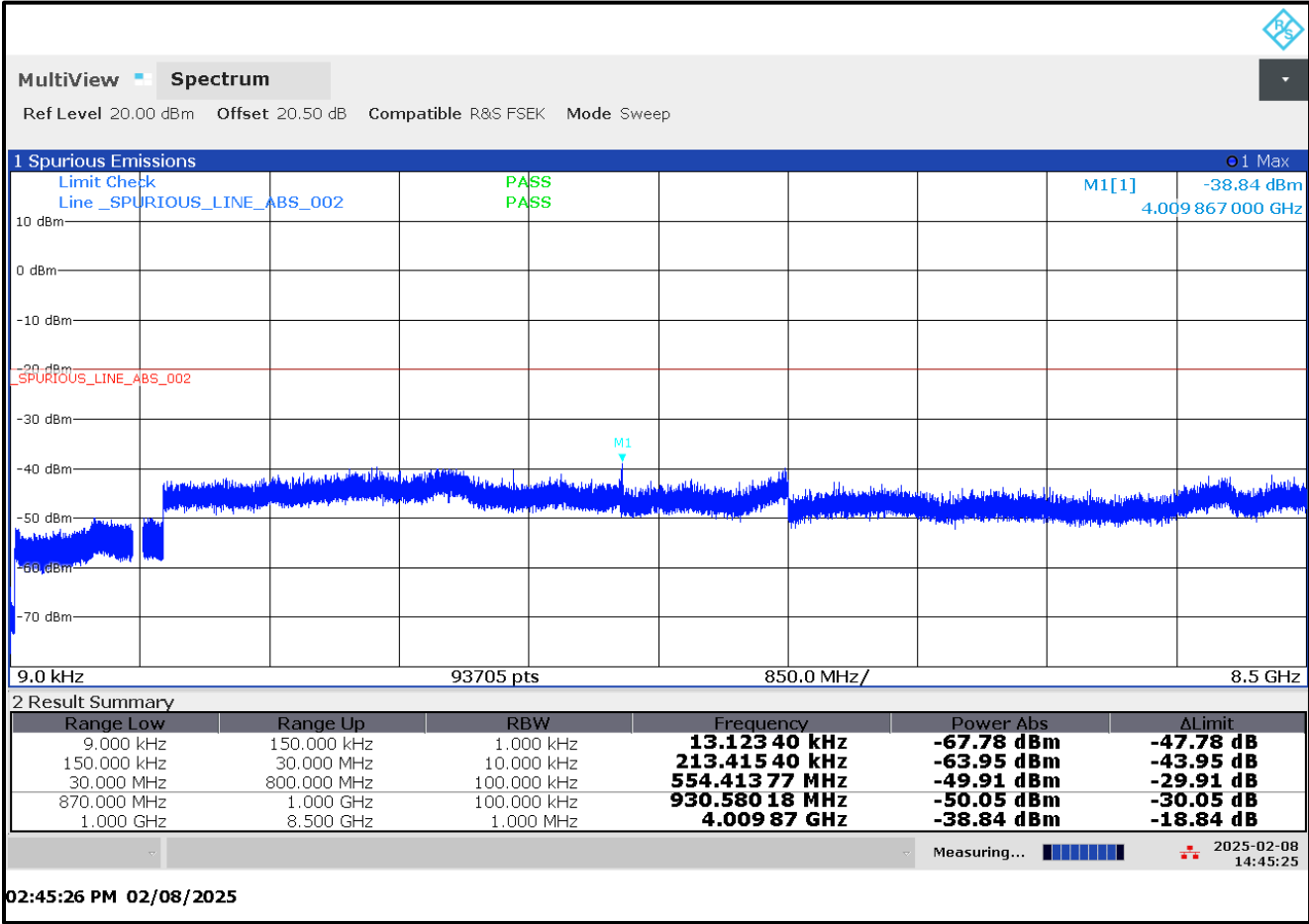
Plot 5-12: Spurious Emissions at Antenna Terminals – 775.9875 MHz



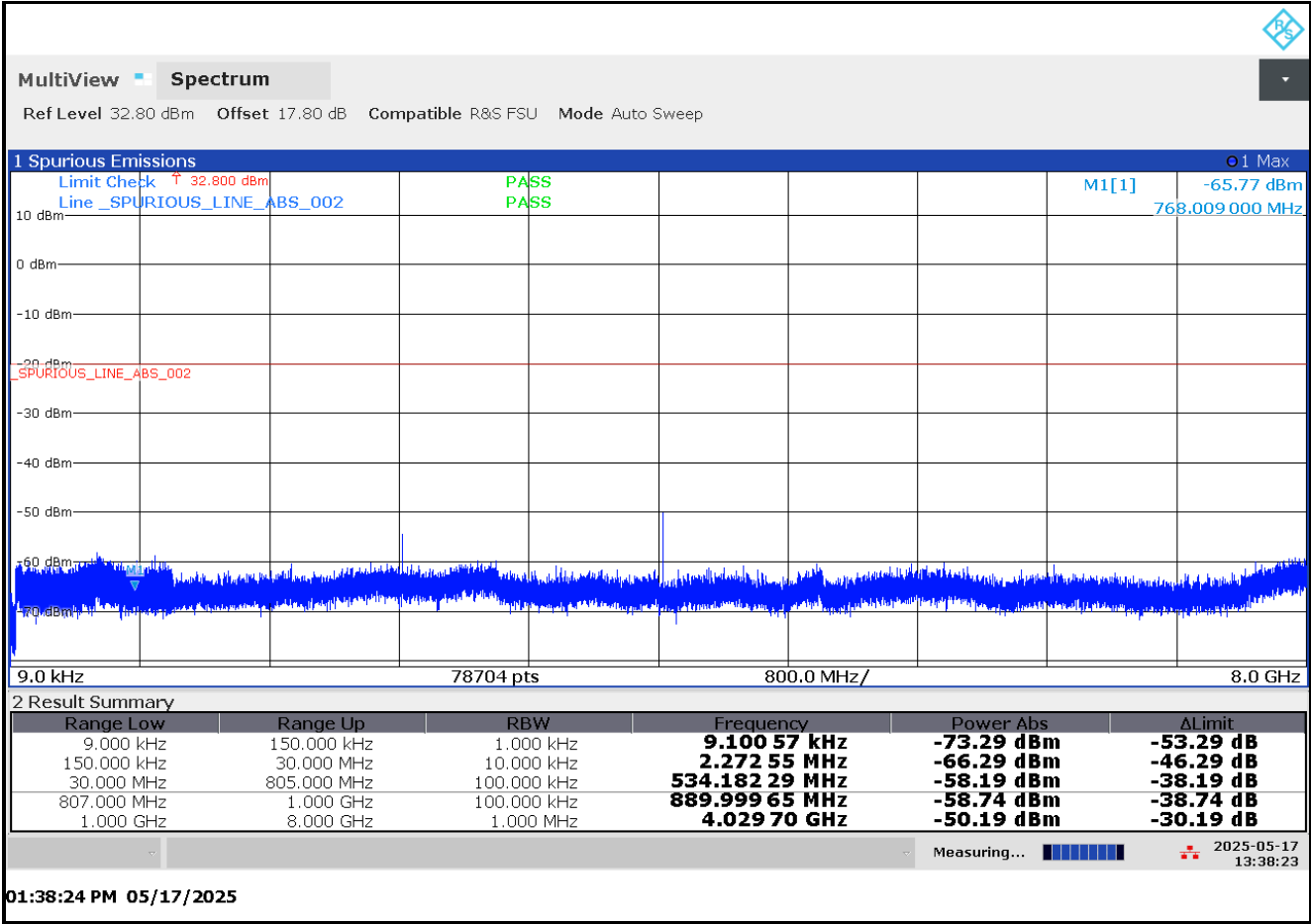
Plot 5-13: Spurious Emissions at Antenna Terminals – 798.0125 MHz



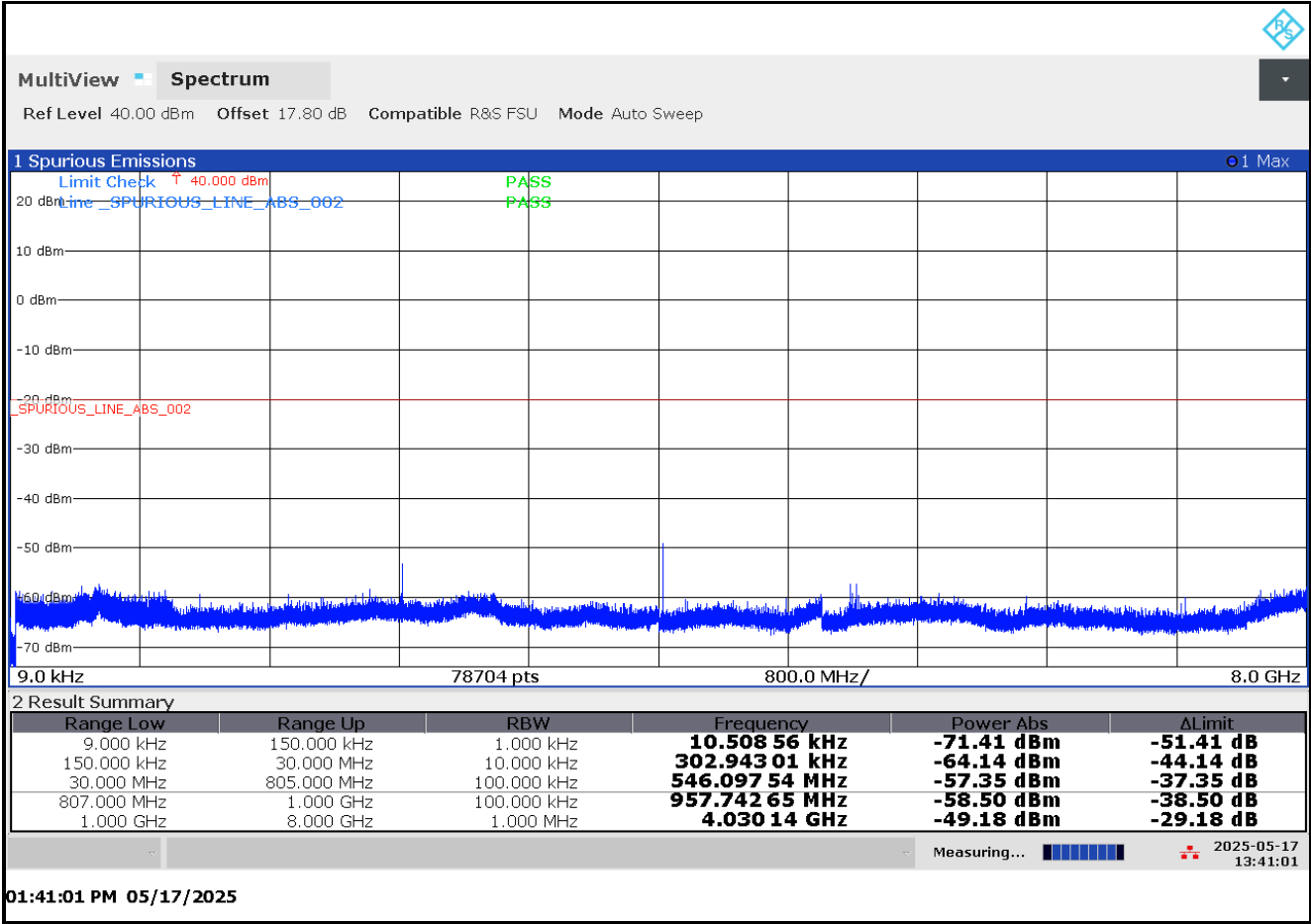
Plot 5-14: Spurious Emissions at Antenna Terminals – 802.0000 MHz



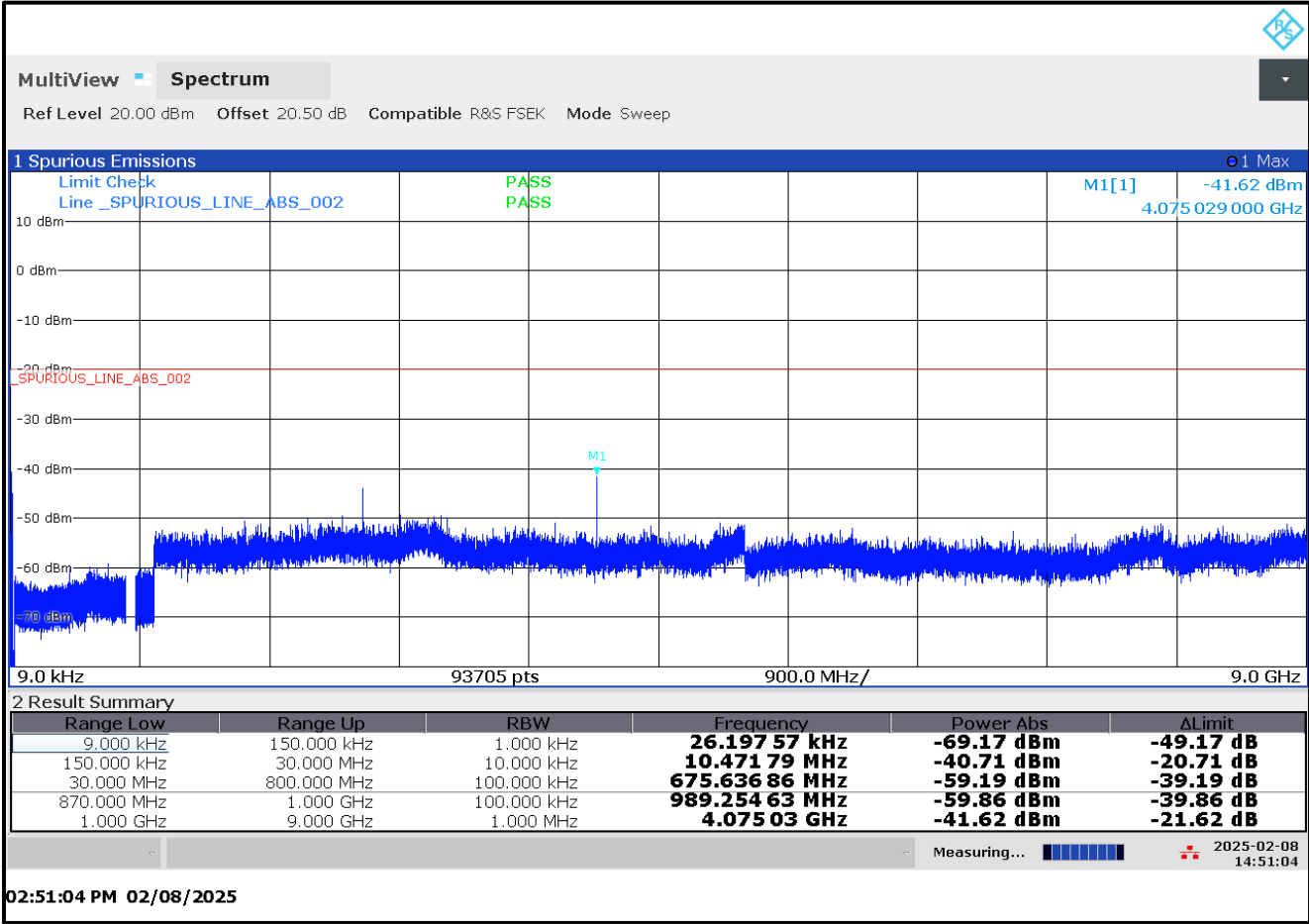
Plot 5-15: Spurious Emissions at Antenna Terminals – 805.9875 MHz



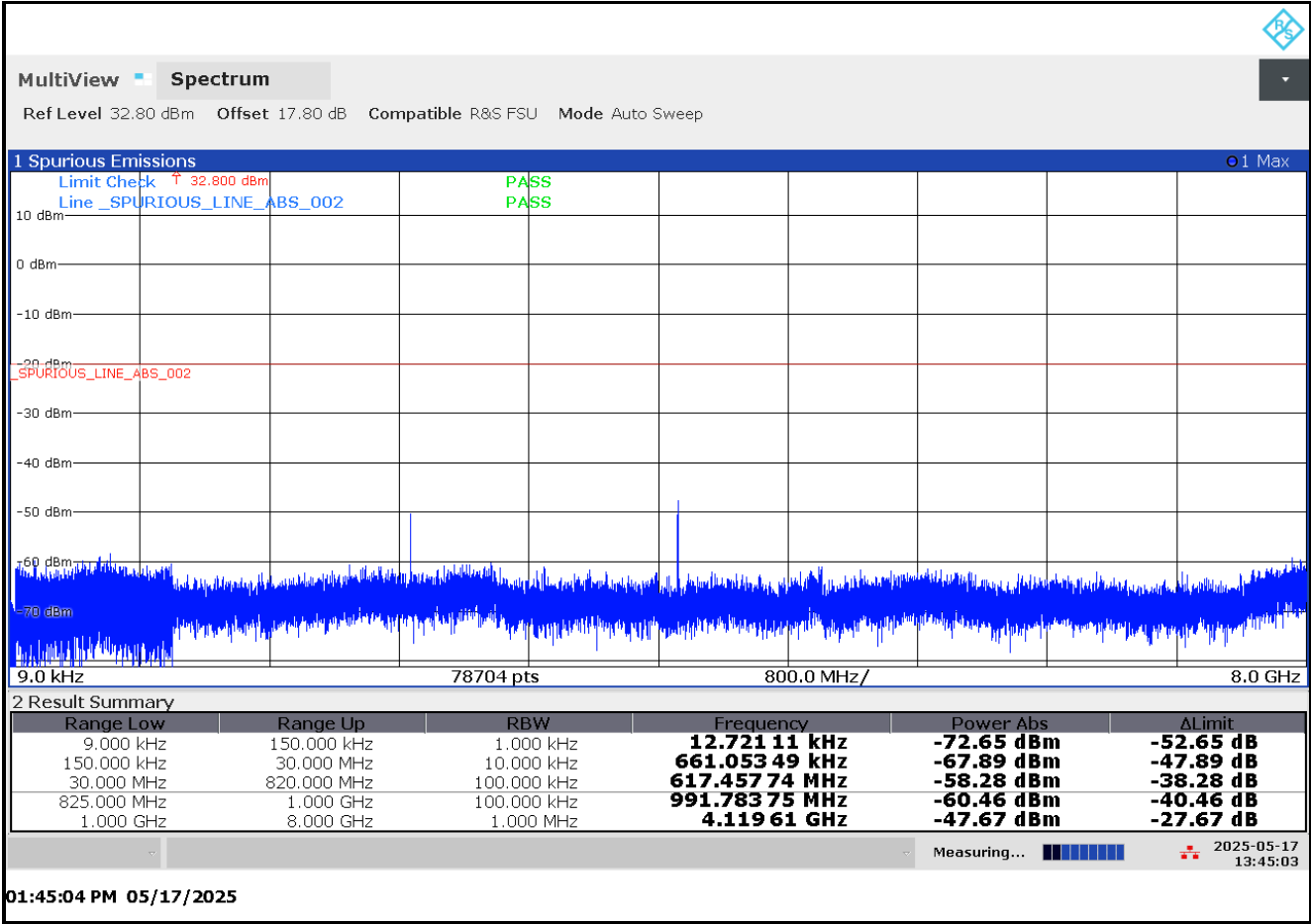
Plot 5-16: Spurious Emissions at Antenna Terminals – 806.0125 MHz



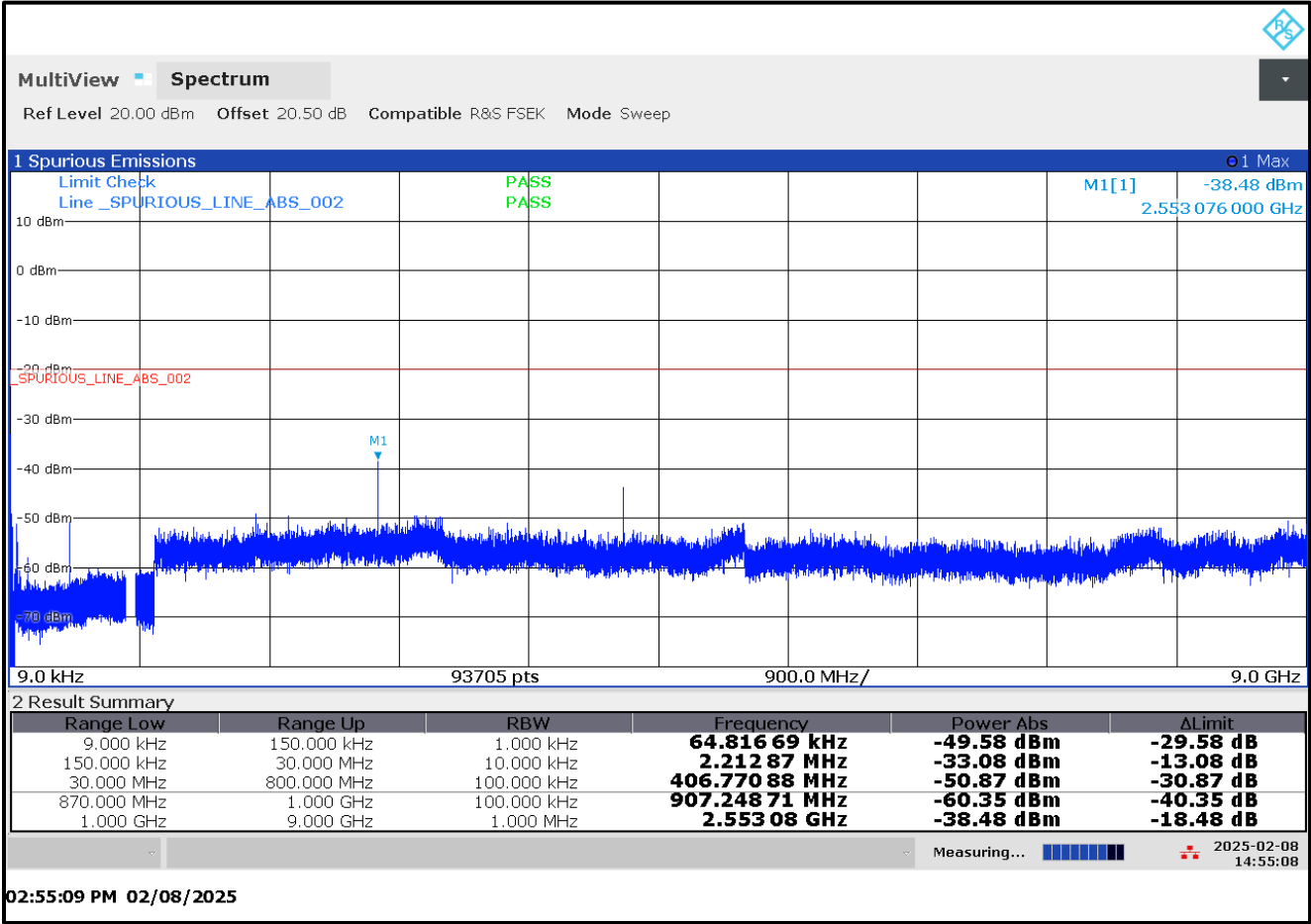
Plot 5-17: Spurious Emissions at Antenna Terminals – 815.0000 MHz



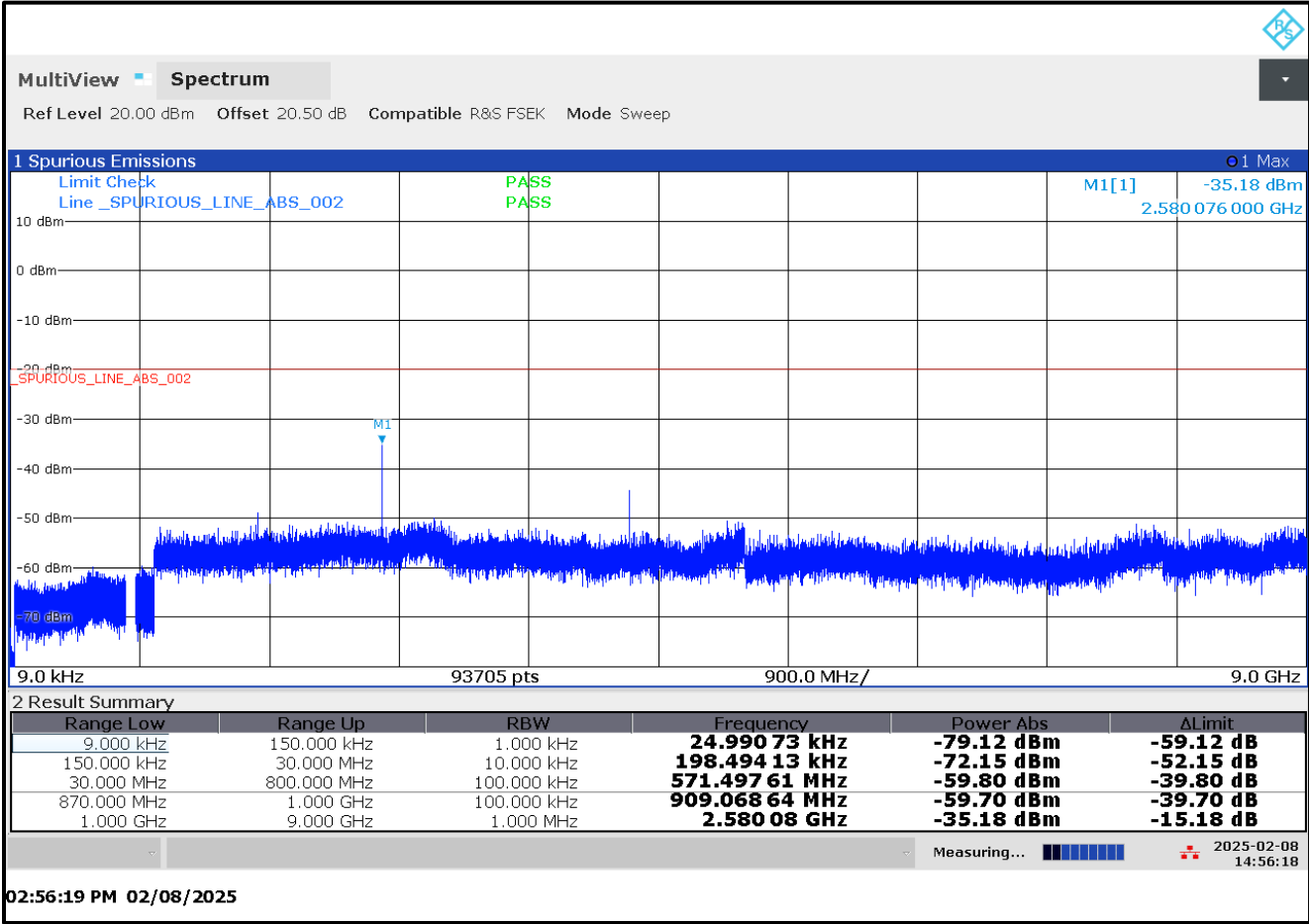
Plot 5-18: Spurious Emissions at Antenna Terminals – 823.9875 MHz



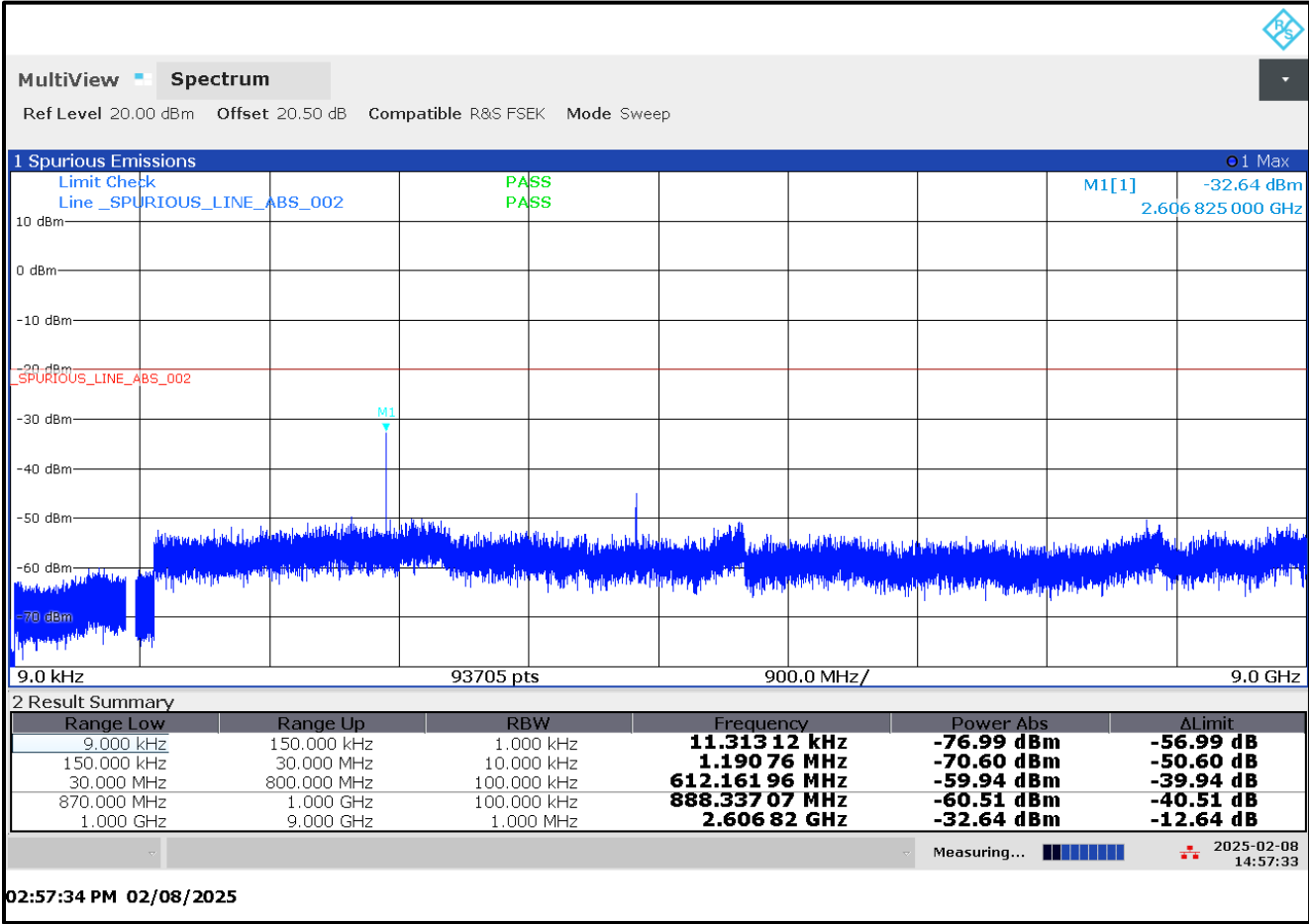
Plot 5-19: Spurious Emissions at Antenna Terminals – 851.0125 MHz



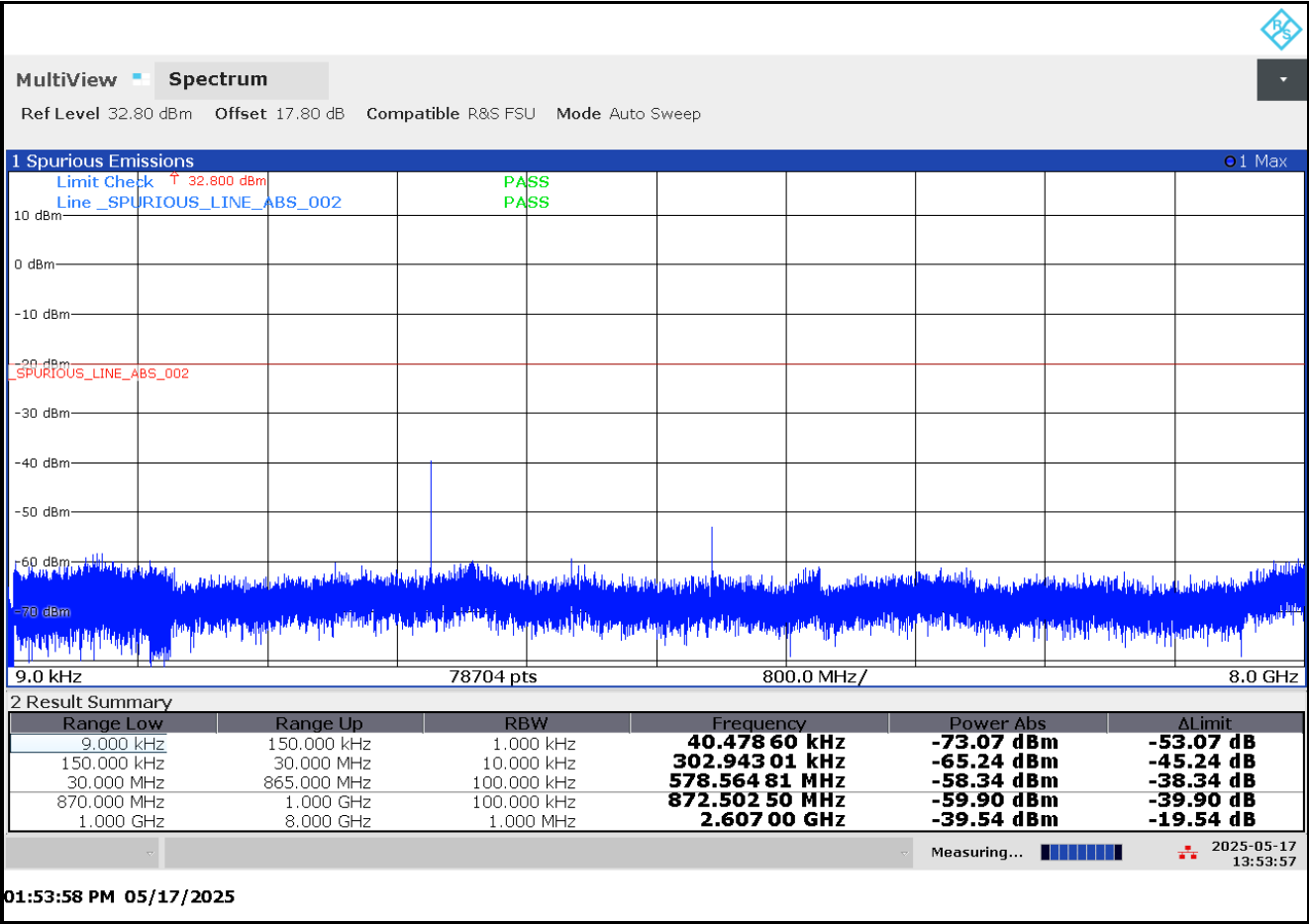
Plot 5-20: Spurious Emissions at Antenna Terminals – 860.0000 MHz



Plot 5-21: Spurious Emissions at Antenna Terminals – 860.9875 MHz



Plot 5-22: Spurious Emissions at Antenna Terminals – 868.9875 MHz



Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level, using a coverage factor of K = 2. Measurement uncertainty: ±0.5 dB

Results: Pass

Table 5-2: Test Equipment Used For Testing Spurious Emissions

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027
901139	Weinschel Corp.	48-20-34 DC-18GHz	Attenuator, 100W 20dB	BK5859	10/14/2027
901128	Par Electronics	806-902 (25W)	UHF Notch Filter	N/A	11/28/2027
901129	Par Electronics	118-174 (25W)	VHF Notch Filters	N/A	11/28/2027
901133	Par Electronics	400-512 (25W)	UHF Notch Filter	N/A	11/28/2027

Rhein Tech Laboratories, Inc.
360 Herndon Parkway
Suite 1400
Herndon, VA 20170
www.rheintech.com

Client: L3Harris Technologies, Inc.
Model: XL-200P
FCC ID: OWDTR-0179-E
Standards: FCC Pts. 22, 74, 80, 90
Report #: 2025003TNF

Test Personnel:



Daniel W. Baltzell
EMC Test Engineer

Signature

February 8, April 15, May 17, 2025
Dates of Test

6 FCC Part 90.543(a): Emission Limitations: ACP Requirements

Effective October 23, 2007, transmitters designed to operate in the 769–775 MHz and 799–805 MHz frequency bands must meet the emission limitations in paragraphs (a) through (d) of this section. Transmitters operating in the 763–768 MHz and 793–798 MHz bands must meet the emission limitations in (e) of this section.

6.1 Test Procedure

ANSI C63.26, Section 6.5.2.4

Adjacent channel power measurements for equipment operating in the 769 MHz to 775 MHz and 799 MHz to 805 MHz (public safety) bands.

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

For a Multiband Portable Radio designed to operate with a 12.5 kHz channel bandwidth, the ACP shall be in accordance with the values in the following table:

Offset from Center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP Relative (dBc)
(+/-)9.375	6.25	-40
(+/-)15.625	6.25	-60
(+/-)21.875	6.25	-60
(+/-)37.5	25	-60
(+/-)62.5	25	-65
(+/-)87.5	25	-65
(+/-)150	100	-65
(+/-)250	100	-65
(+/-)350	100	-65
>400 kHz to 12 MHz	30(s)	-75
12 MHz to paired receive band	30(s)	-75
In the paired receive band	30(s)	-100

For a Multiband Portable Radio designed to operate with a 25 kHz channel bandwidth, the ACP shall be in accordance with the values in the following table:

Offset from Center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP Relative (dBc)
(+/-)15.625	6.25	-40
(+/-)21.875	6.25	-60
(+/-)37.5	25	-60
(+/-)62.5	25	-65
(+/-)87.5	25	-65
(+/-)150	100	-65
(+/-)250	100	-65
(+/-)350	100	-65
>400 kHz to 12 MHz	30(s)	-75
12 MHz to paired receive band	30(s)	-75
In the paired receive band	30(s)	-100

FCC Rules and Regulations - 90.543(b)

Setting Reference Level - 90.543(b)(1): Using a spectrum analyzer capable of ACP measurements, set the measurement bandwidth to the channel size. Set the frequency offset of the measurement to zero and adjust the center frequency of the spectrum analyzer to give the power level in the measurement bandwidth. Record this power as the reference power level. Measuring the power level at the frequency offset <600 kHz - §90.543(b)(2): Using a spectrum analyzer capable of adjacent channel power (ACP) measurements, set the measurement bandwidth as shown in the table. Measure ACP in dBm. These measurements are made at maximum power. Calculate the coupled power by subtracting the measurements made in this step from the reference power level. The absolute ACP values must be less than the values given in the table for each condition. Measuring the power level at the frequency offset >600 kHz - §90.543(b)(3): Set the spectrum analyzer to 30 kHz resolution bandwidth, 1 MHz video bandwidth and sample detection mode. Sweep +/-6 MHz from the carrier frequency. Set the reference level to the RMS value of the transmitter power and note the power. The response at frequencies >600 kHz must be less than the values listed in the table.

Table 6-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
02/09/2025	23.6	18	102.5

6.2 Test Data

Plot 6-1: Adjacent Channel Power - 768.0125 MHz; NB Analog Mode (9.375 kHz - 350 kHz)

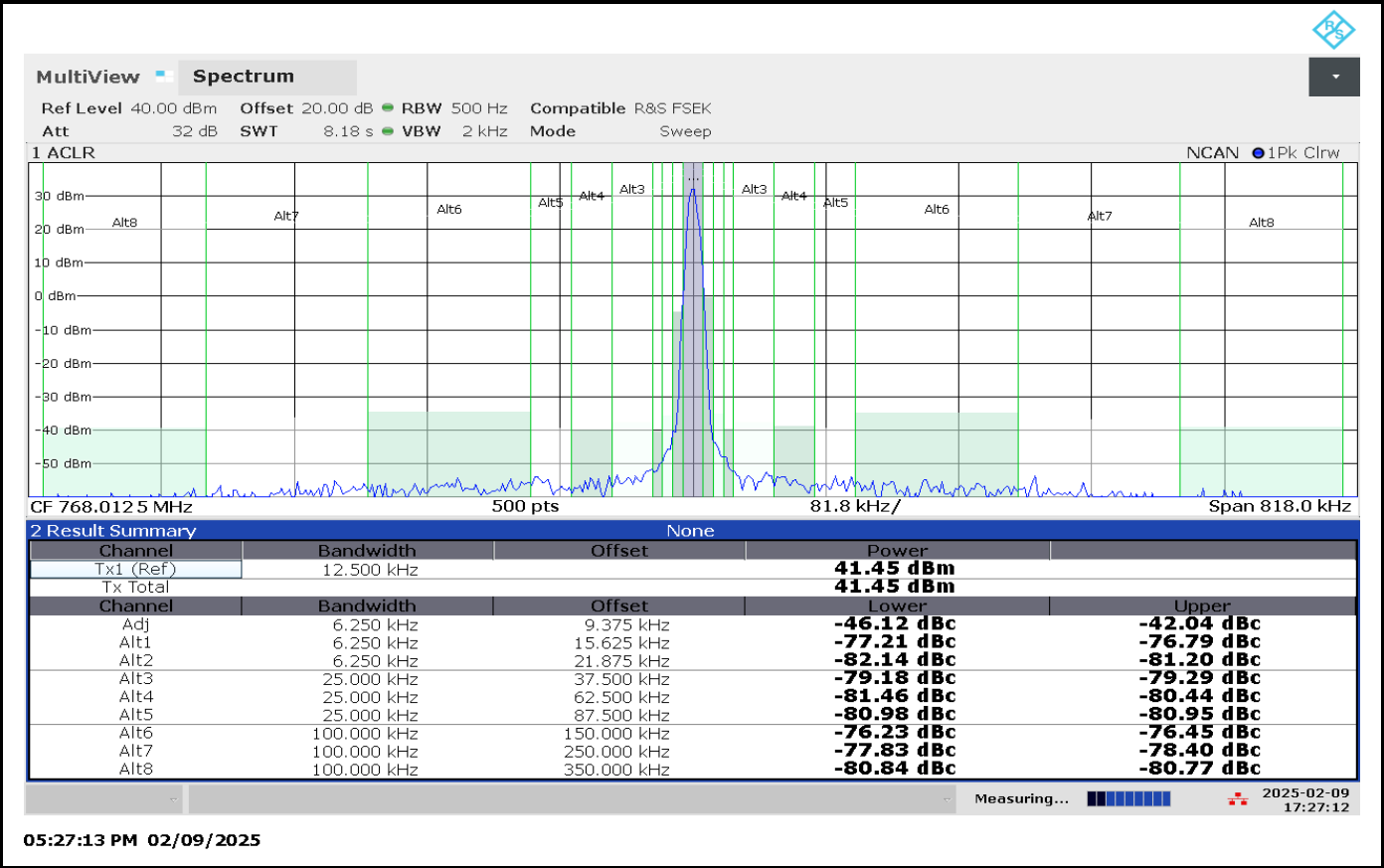


Table 6-2: Adjacent Channel Power - 768.0125 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-82.6
12 MHz to receive band	30(s)	-75	-130.3
In receive band	30(s)	-100	-123.7

Plot 6-2: Adjacent Channel Power – 772.0000 MHz; NB Analog Mode (9.375 kHz - 350 kHz)

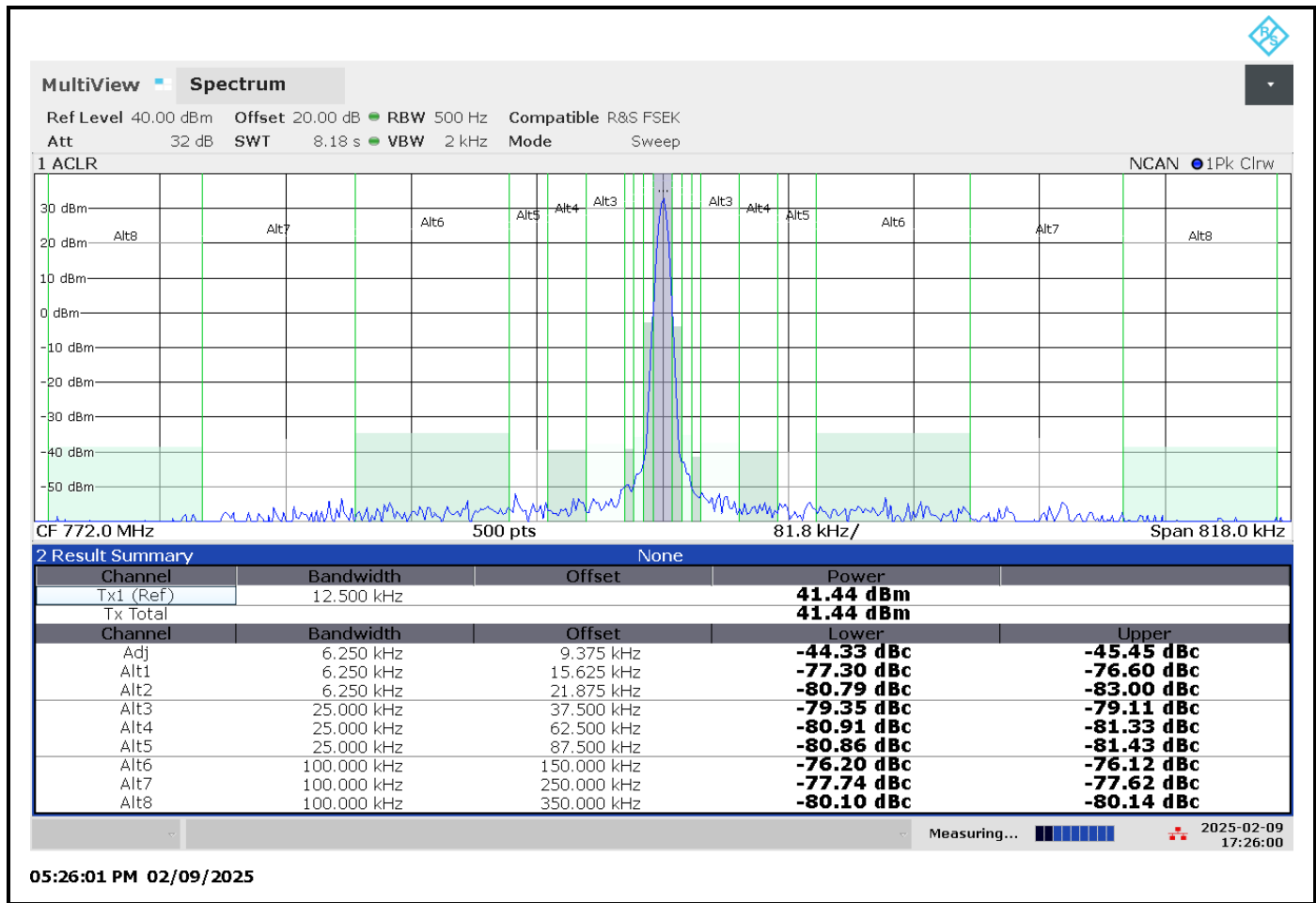


Table 6-3: Adjacent Channel Power – 772.0000 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-82.5
12 MHz to receive band	30(s)	-75	-97.8
In receive band	30(s)	-100	-124.5

Plot 6-3: Adjacent Channel Power - 775.9875 MHz; NB Analog Mode (9.375 kHz - 350 kHz)

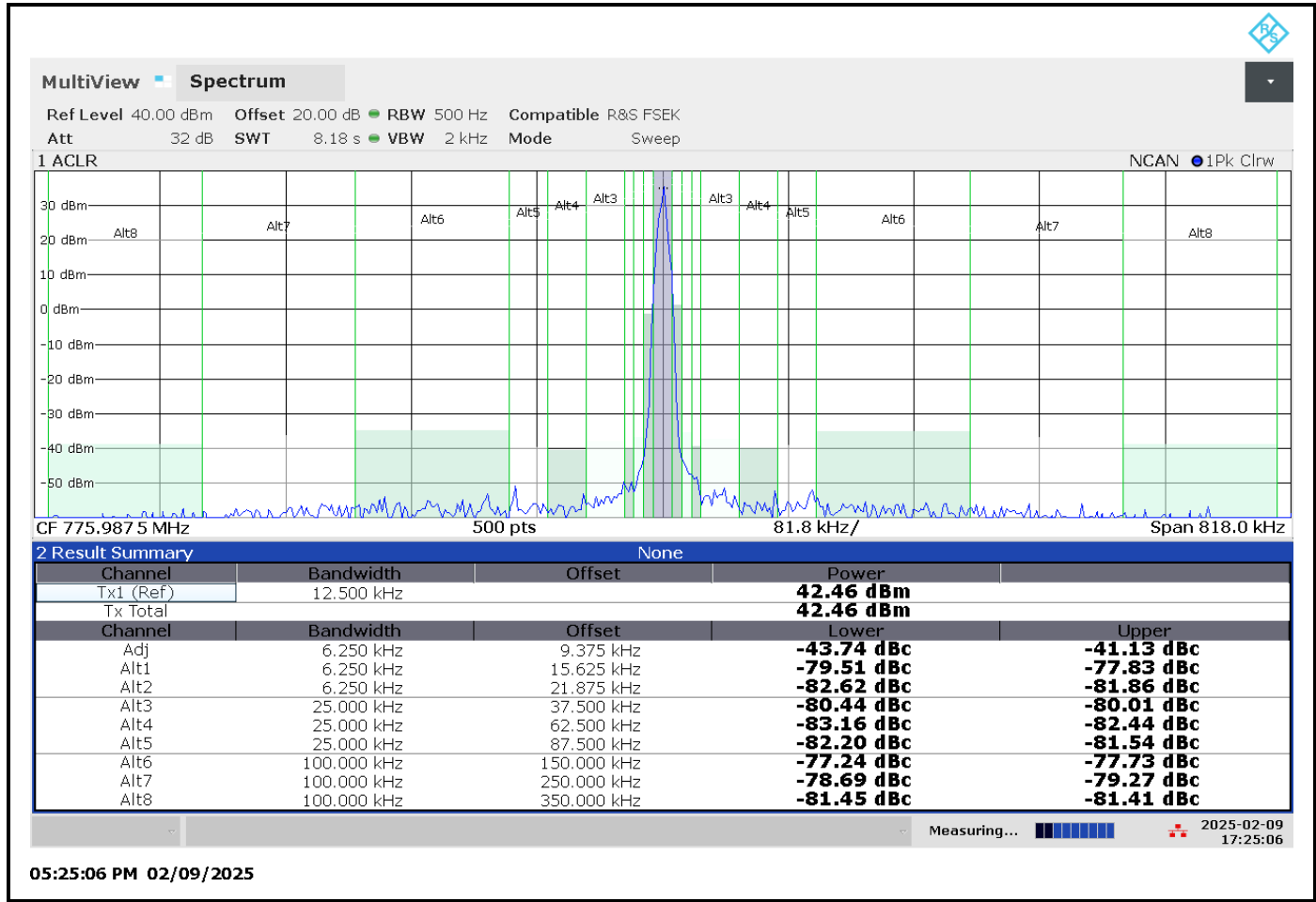


Table 6-4: Adjacent Channel Power - 775.9875 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.6
12 MHz to receive band	30(s)	-75	-95.1
In the receive band	30(s)	-100	-115.5

Plot 6-4: Adjacent Channel Power – 798.0125 MHz; NB Analog Mode; (9.375 kHz - 350 kHz)

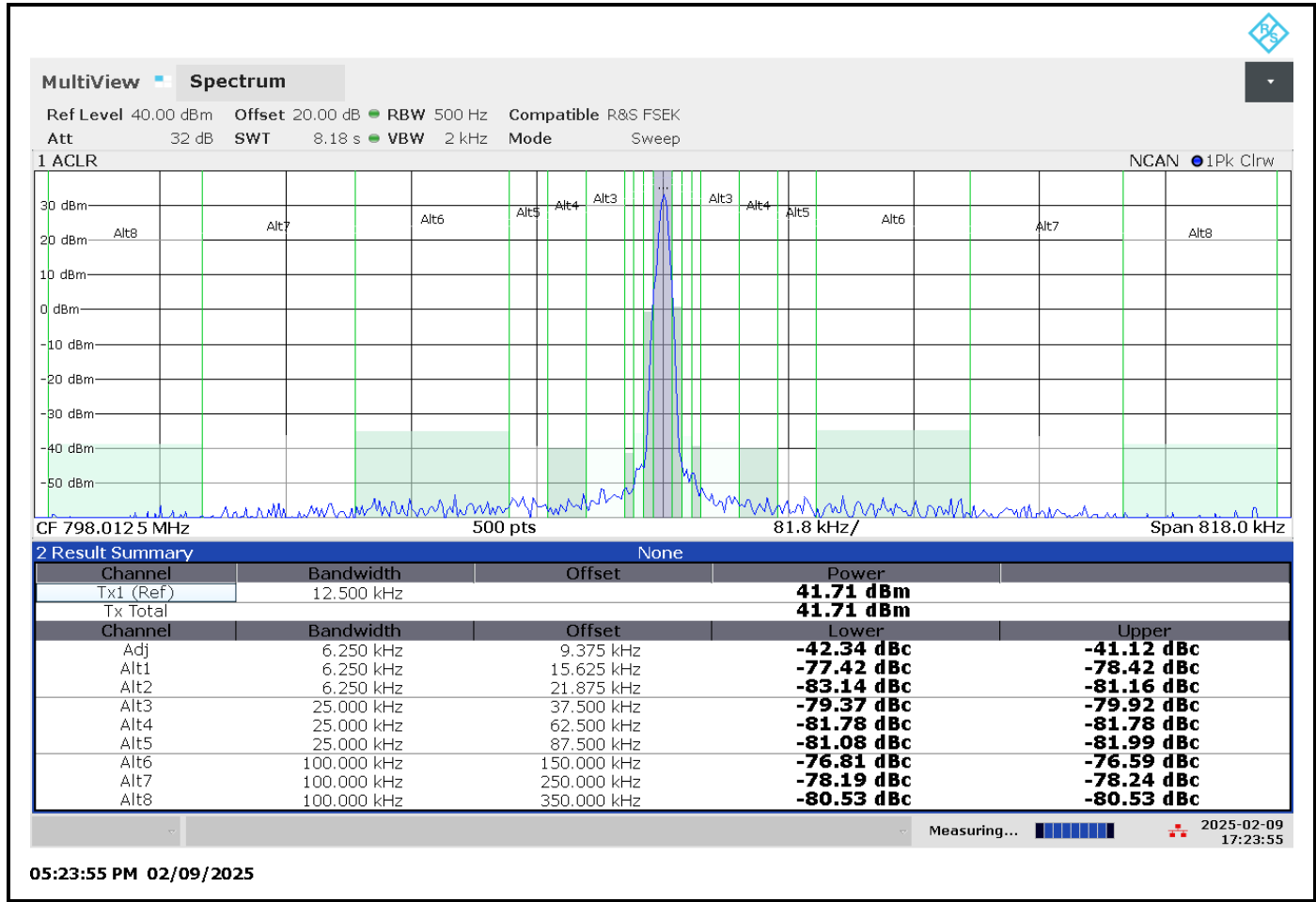


Table 6-5: Adjacent Channel Power – 798.0125 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.3
12 MHz to receive band	30(s)	-75	-95.2
In the receive band	30(s)	-100	-114.3

Plot 6-5: Adjacent Channel Power – 802.0000 MHz; NB Analog Mode; (9.375 kHz - 350 kHz)

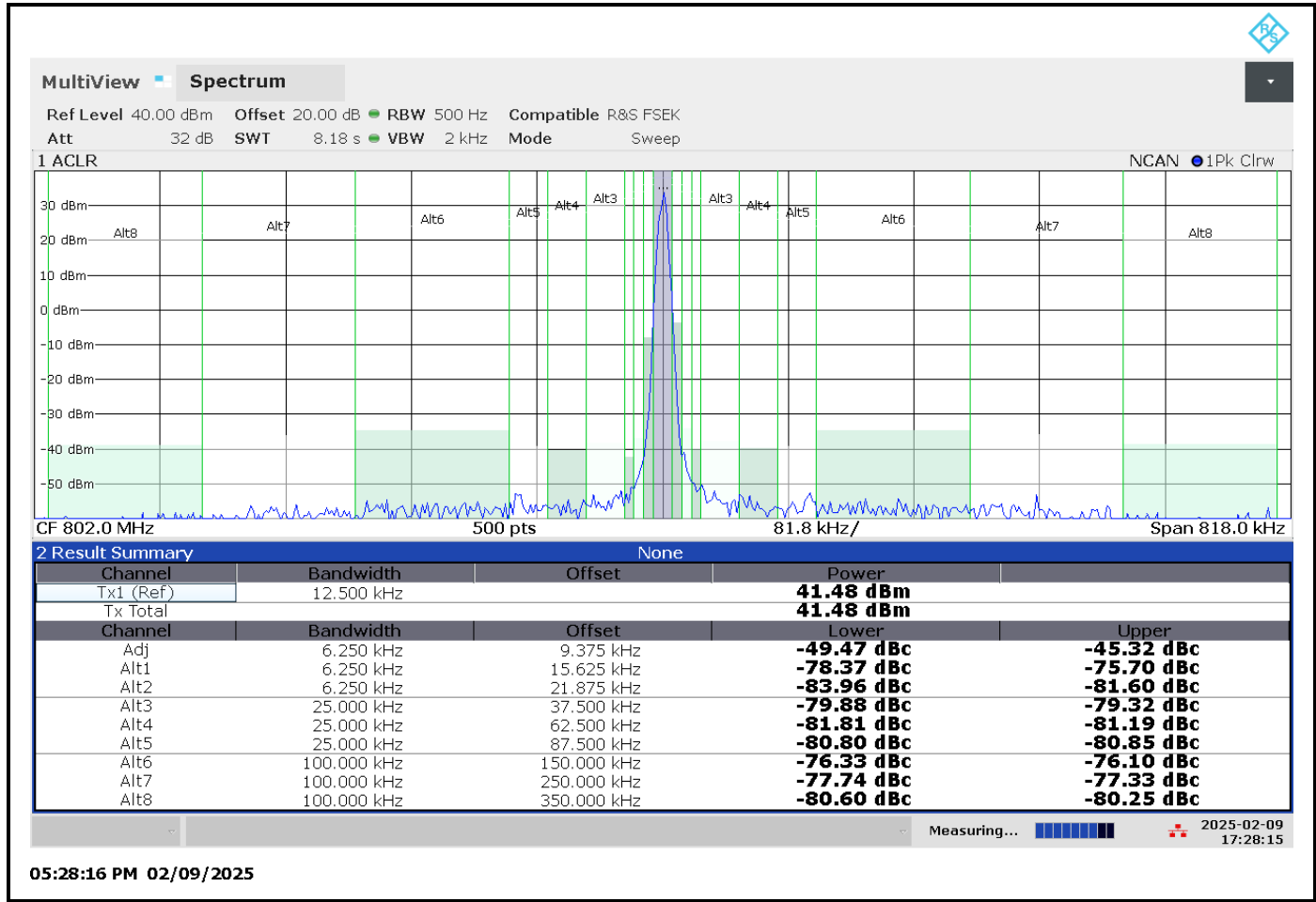


Table 6-6: Adjacent Channel Power – 802.0000 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.6
12 MHz to receive band	30(s)	-75	-93.0
In the receive band	30(s)	-100	-117.0

Plot 6-6: Adjacent Channel Power – 805.9875 MHz; NB Analog Mode; (9.375 kHz - 350 kHz)

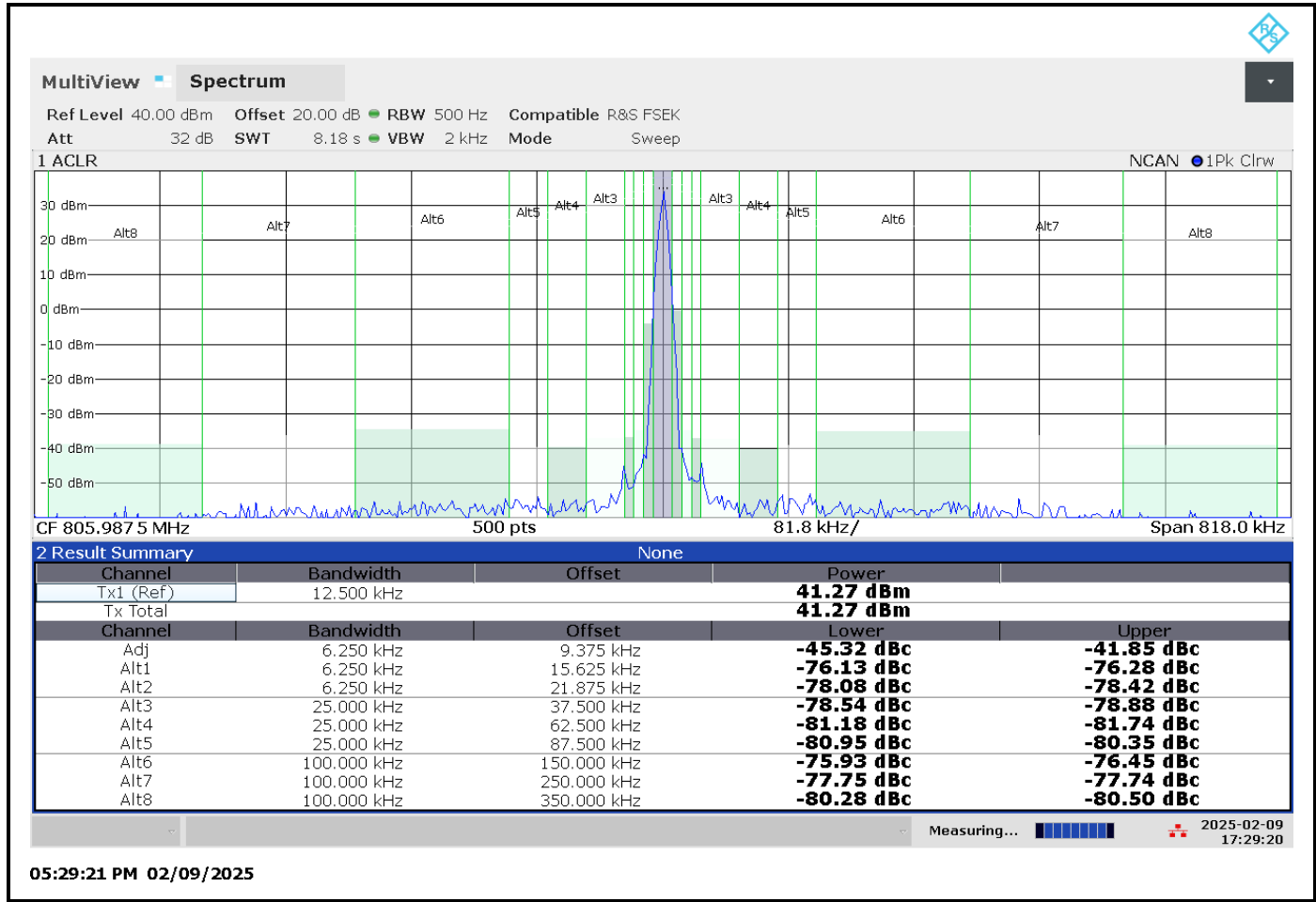


Table 6-7: Adjacent Channel Power – 805.9875 MHz; NB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.9
12 MHz to receive band	30(s)	-75	-91.6
In the receive band	30(s)	-100	-125.1

Plot 6-7: Adjacent Channel Power - 768.0125 MHz; WB Analog Mode (9.375 kHz - 350 kHz)

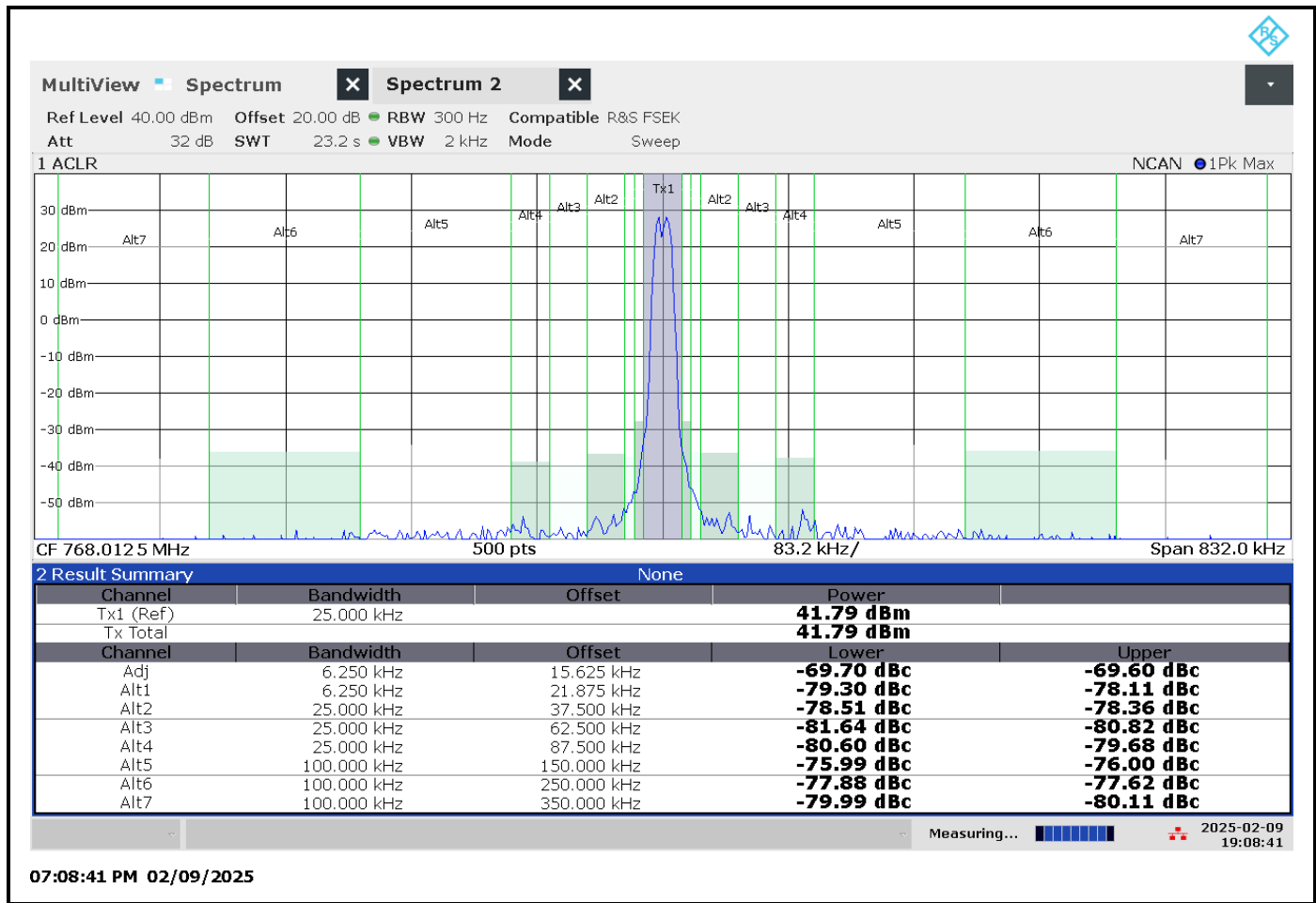


Table 6-8: Adjacent Channel Power - 768.0125 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.9
12 MHz to receive band	30(s)	-75	-94.9
In the receive band	30(s)	-100	-113.7

Plot 6-8: Adjacent Channel Power – 772.0000 MHz; WB Analog Mode (9.375 kHz - 350 kHz)

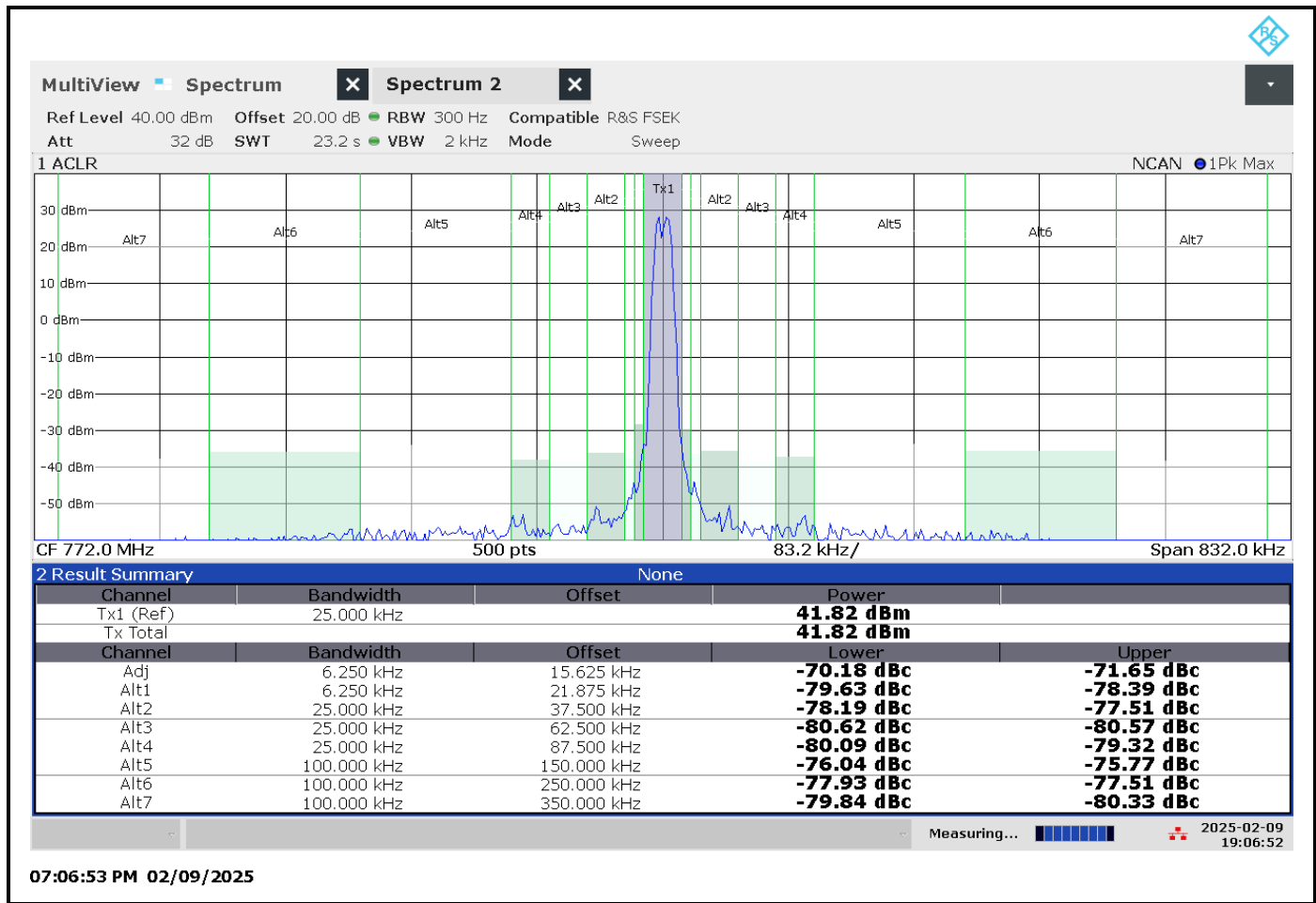


Table 6-9: Adjacent Channel Power – 772.0000 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.5
12 MHz to receive band	30(s)	-75	-98.1
In the receive band	30(s)	-100	-112.0

Plot 6-9: Adjacent Channel Power - 775.9875 MHz; WB Analog Mode (9.375 kHz - 350 kHz)

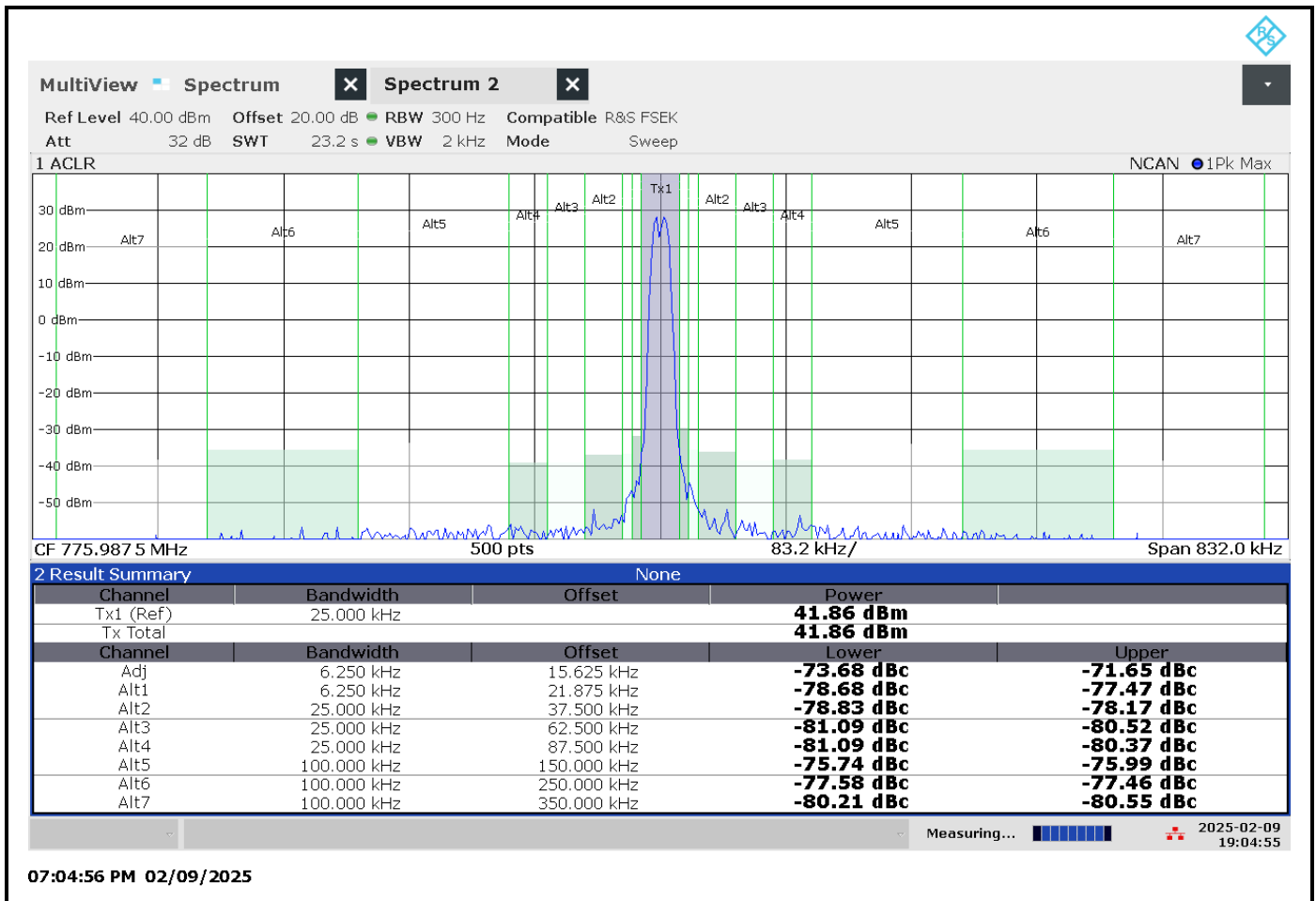


Table 6-10: Adjacent Channel Power - 775.9875 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.5
12 MHz to receive band	30(s)	-75	-94.6
In the receive band	30(s)	-100	-117.0

Plot 6-10: Adjacent Channel Power – 798.0125 MHz; WB Analog Mode; (9.375 kHz - 350 kHz)

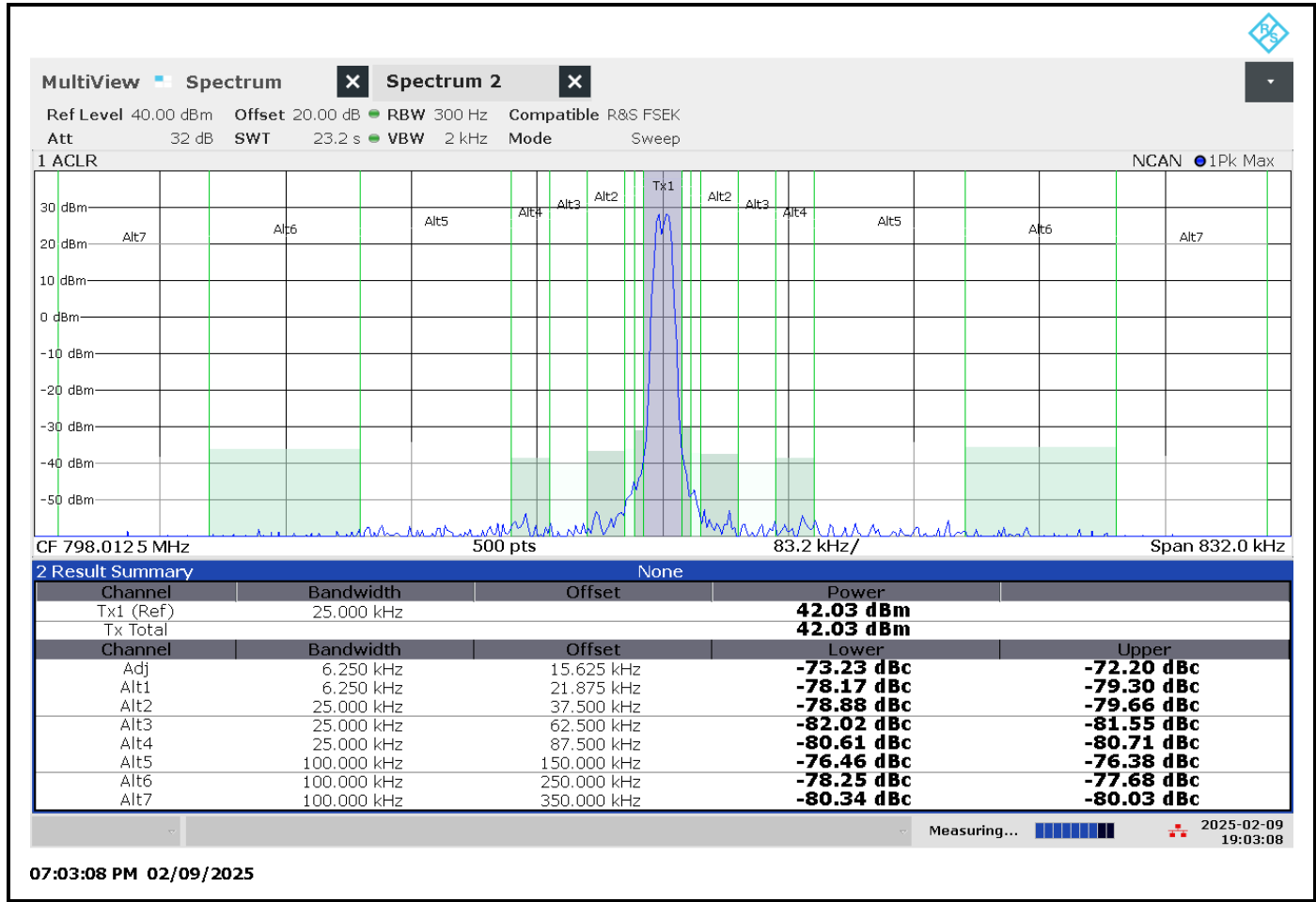


Table 6-11: Adjacent Channel Power – 798.0125 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.5
12 MHz to receive band	30(s)	-75	-95.6
In the receive band	30(s)	-100	-104.1

Plot 6-11: Adjacent Channel Power – 802.0000 MHz; WB Analog Mode; (9.375 kHz - 350 kHz)

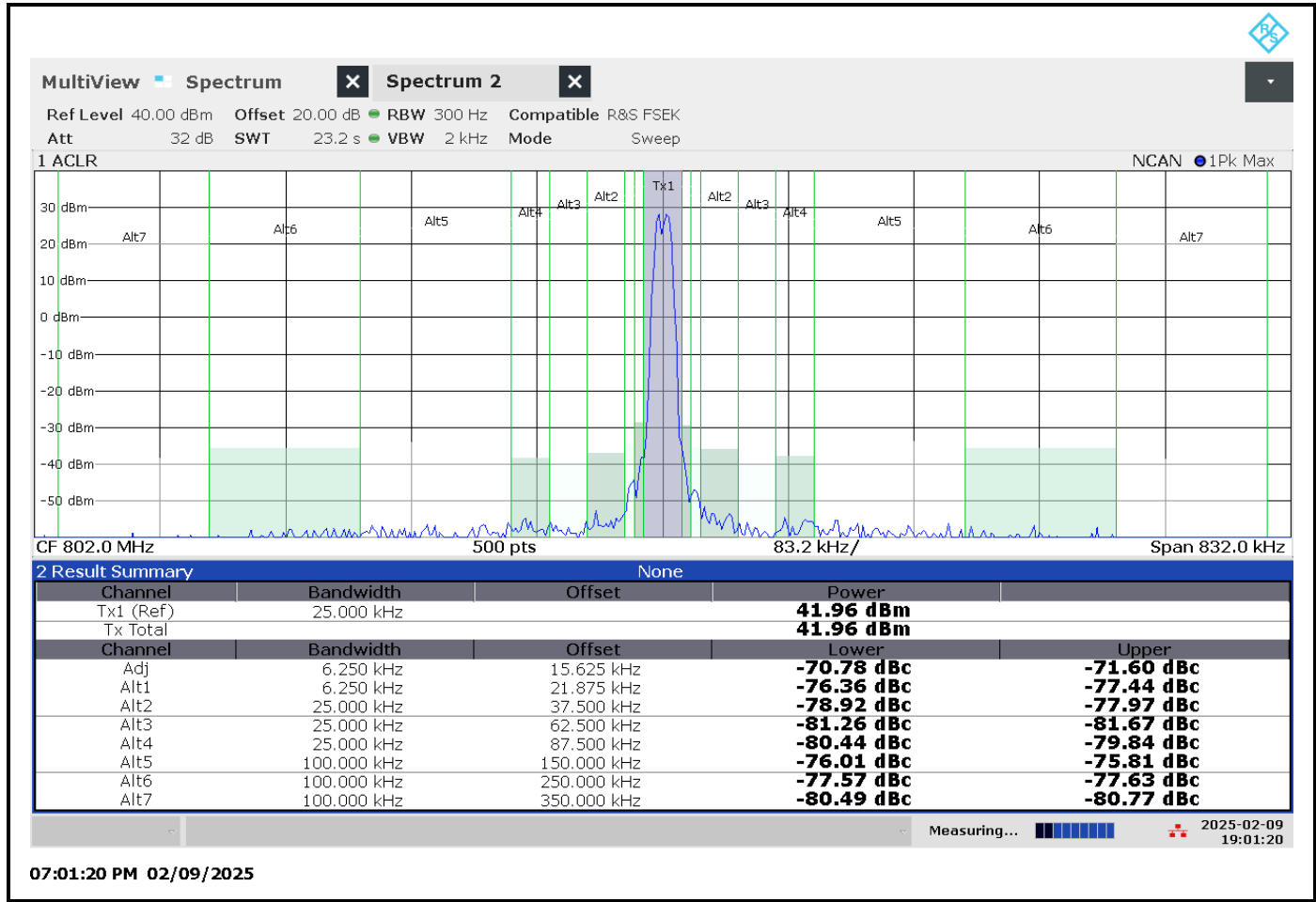


Table 6-12: Adjacent Channel Power – 802.0000 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.1
12 MHz to receive band	30(s)	-75	-93.4
In the receive band	30(s)	-100	-109.1

Plot 6-12: Adjacent Channel Power – 805.9875 MHz; WB Analog Mode; (9.375 kHz - 350 kHz)

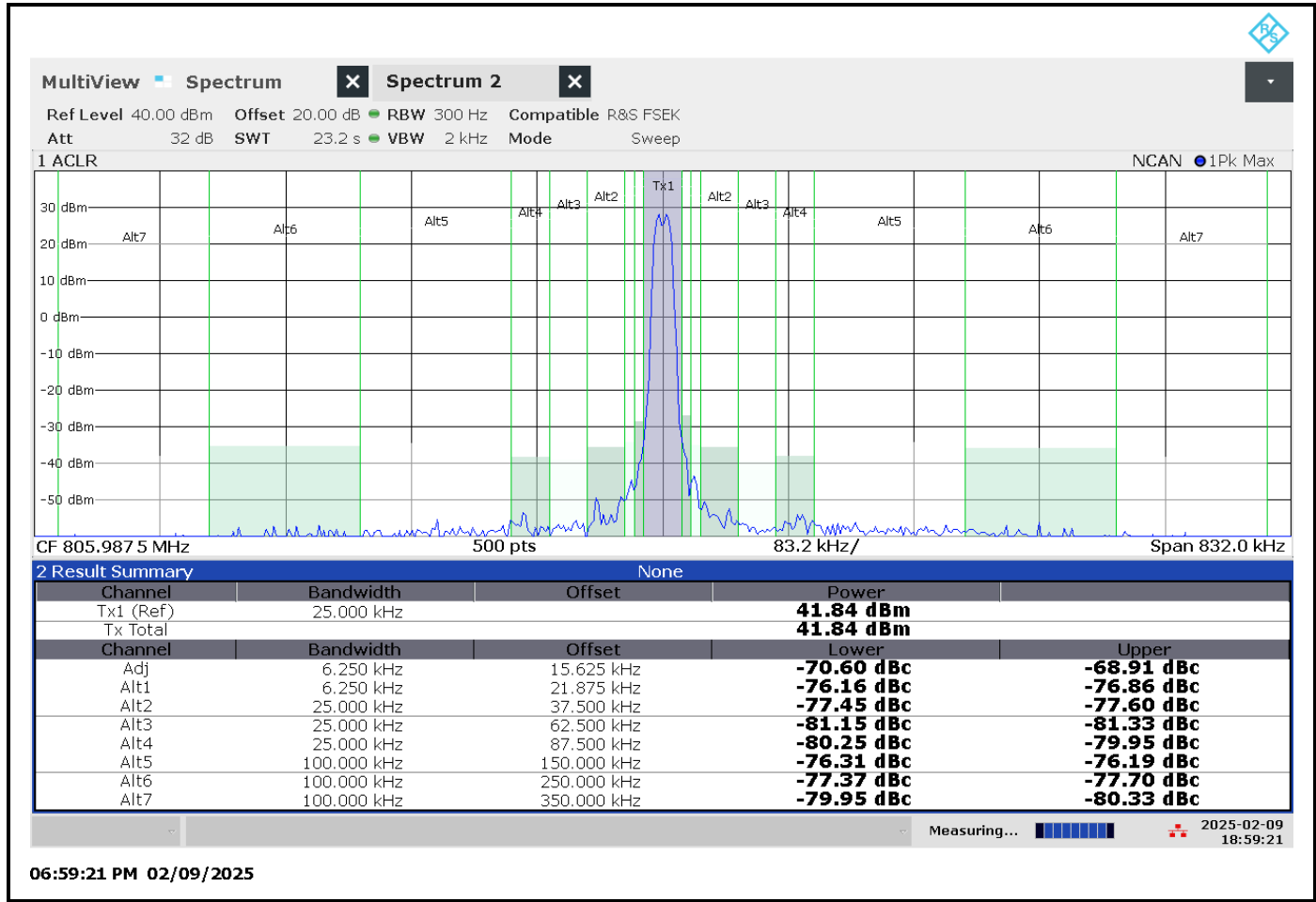


Table 6-13: Adjacent Channel Power – 805.9875 MHz; WB Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.9
12 MHz to receive band	30(s)	-75	-90.9
In the receive band	30(s)	-100	-114.6

Plot 6-13: Adjacent Channel Power - 768.0125 MHz; NPSPAC Analog Mode (9.375 kHz - 350 kHz)

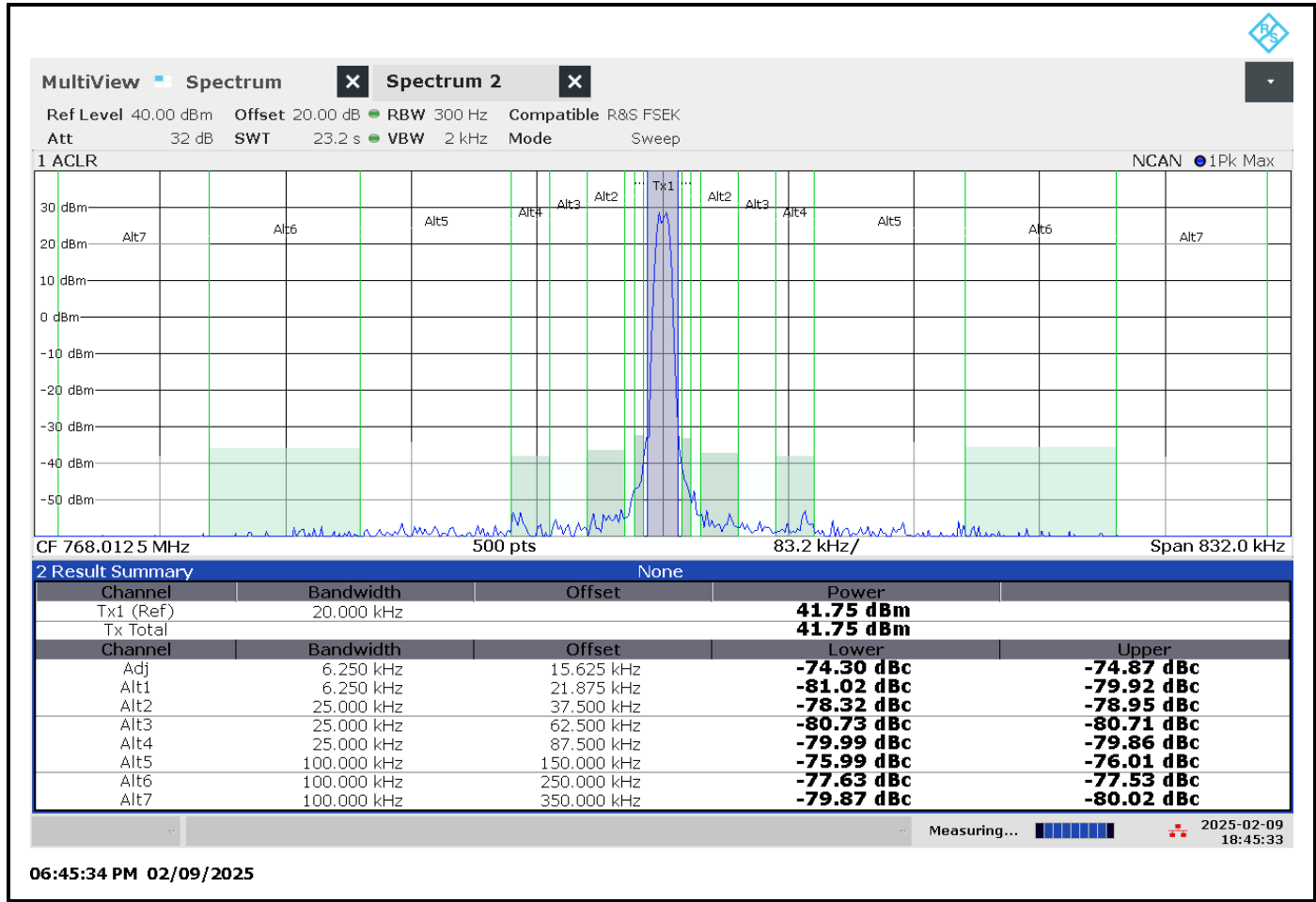


Table 6-14: Adjacent Channel Power - 768.0125 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.1
12 MHz to receive band	30(s)	-75	-93.8
In the receive band	30(s)	-100	-118.8

Plot 6-14: Adjacent Channel Power – 772.0000 MHz; NPSPAC Analog Mode (9.375 kHz - 350 kHz)

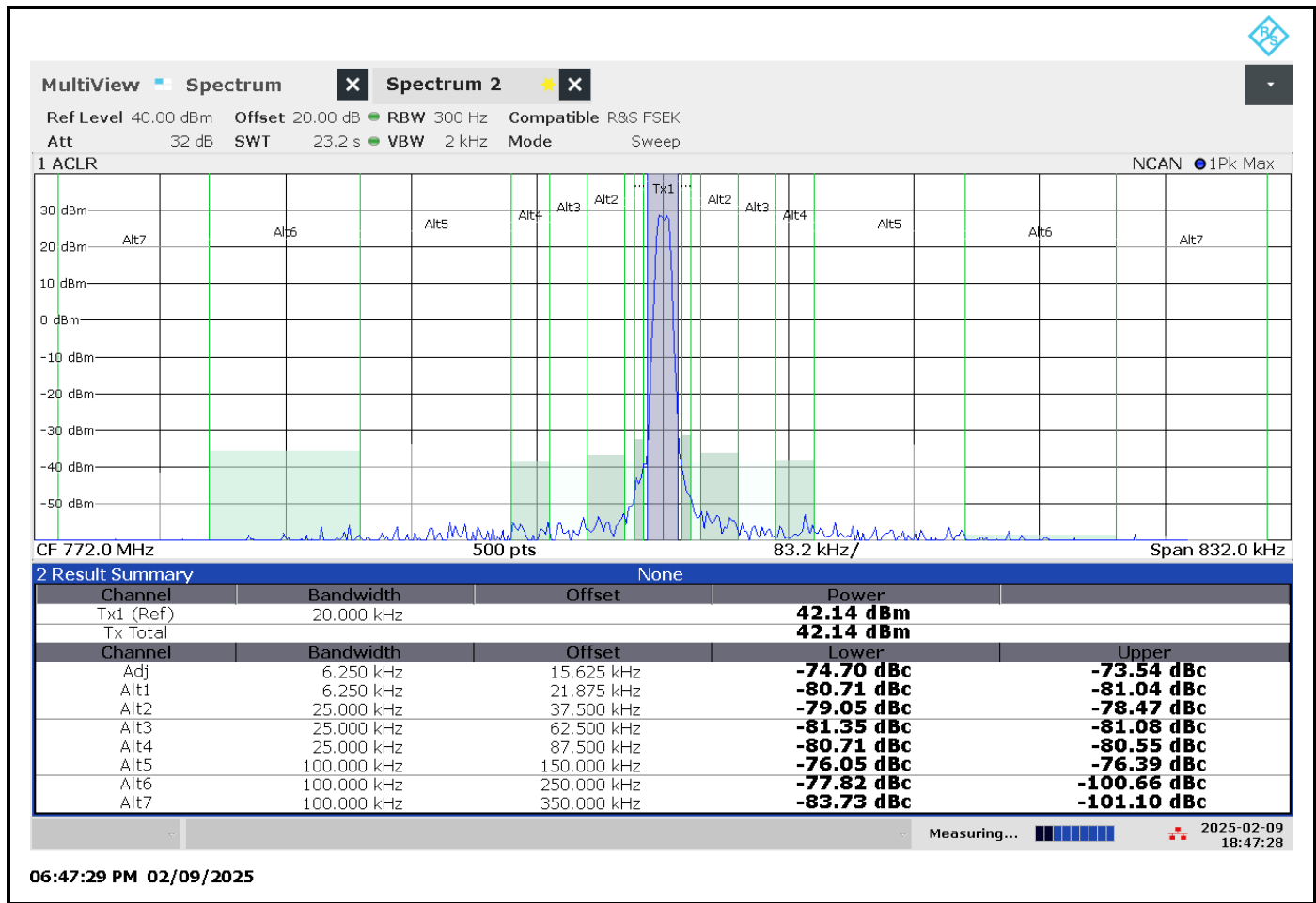


Table 6-15: Adjacent Channel Power – 772.0000 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.3
12 MHz to receive band	30(s)	-75	-98.4
In the receive band	30(s)	-100	-121.2

Plot 6-15: Adjacent Channel Power - 775.9875 MHz; NPSPAC Analog Mode (9.375 kHz - 350 kHz)

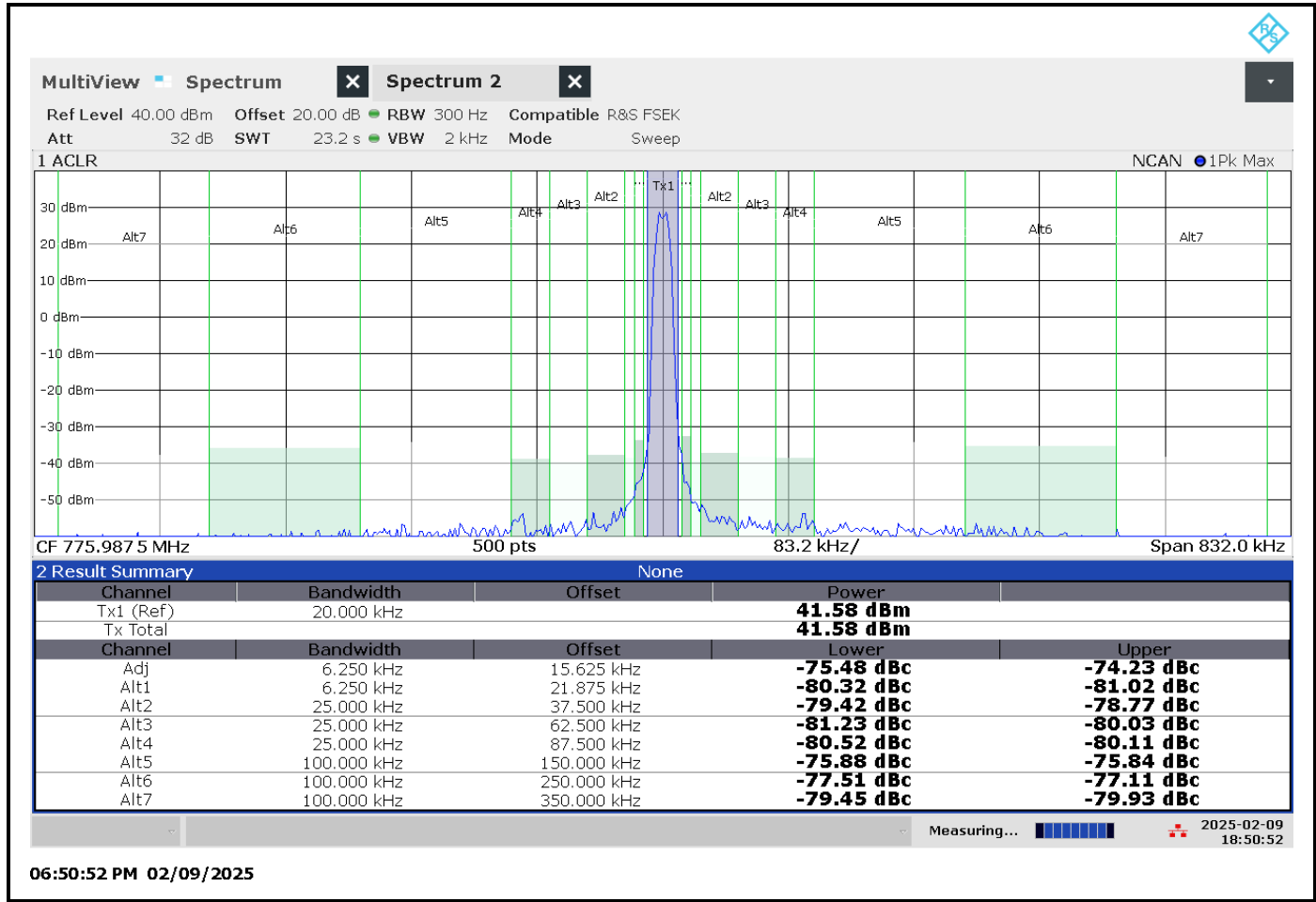


Table 6-16: Adjacent Channel Power - 775.9875 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-89.0
12 MHz to receive band	30(s)	-75	-94.6
In the receive band	30(s)	-100	-123.4

Plot 6-16: Adjacent Channel Power – 798.0125 MHz; NPSPAC Analog Mode; (9.375 kHz - 350 kHz)

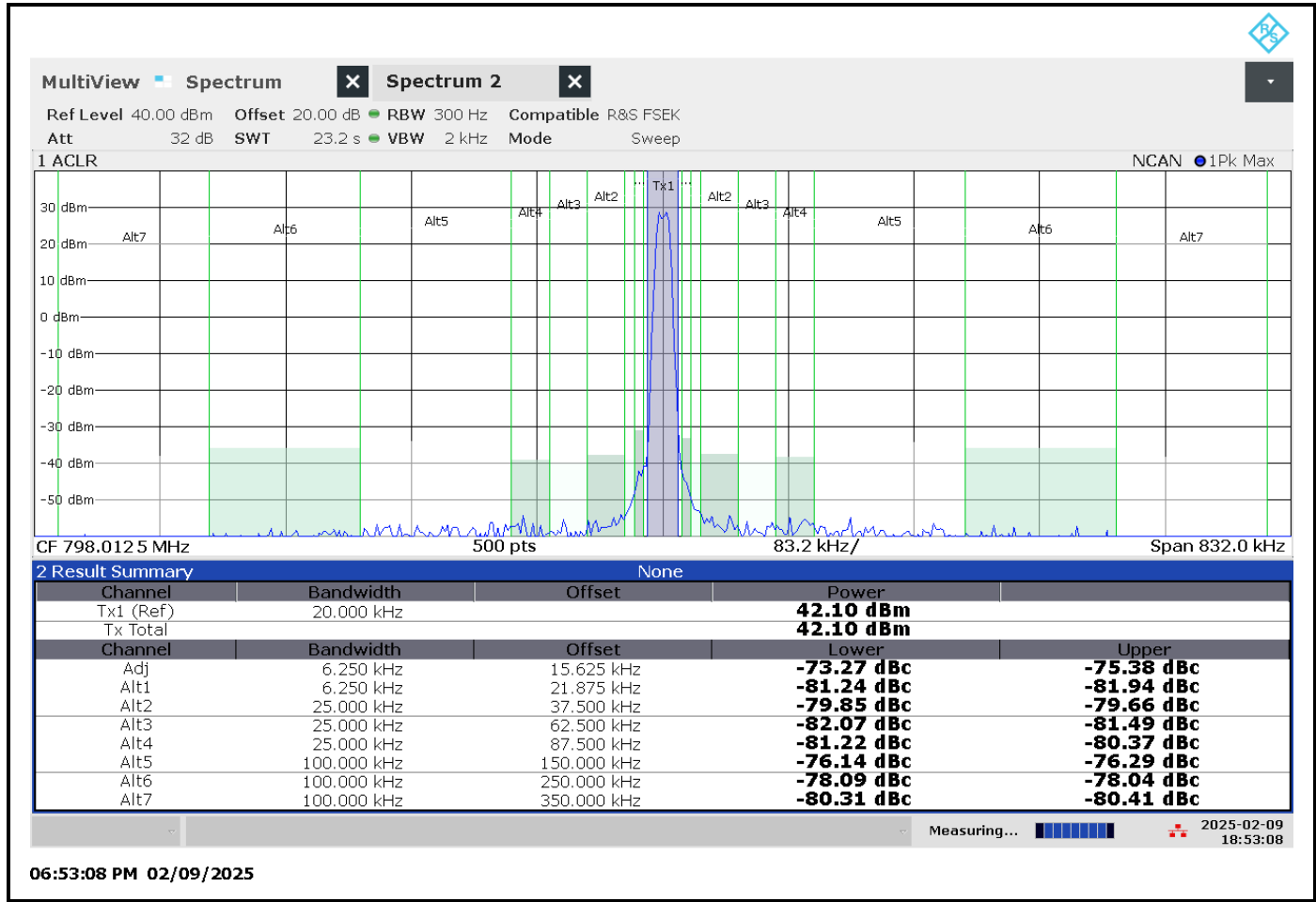


Table 6-17: Adjacent Channel Power – 798.0125 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.2
12 MHz to receive band	30(s)	-75	-95.5
In the receive band	30(s)	-100	-114.7

Plot 6-17: Adjacent Channel Power – 802.0000 MHz; NPSPAC Analog Mode; (9.375 kHz - 350 kHz)

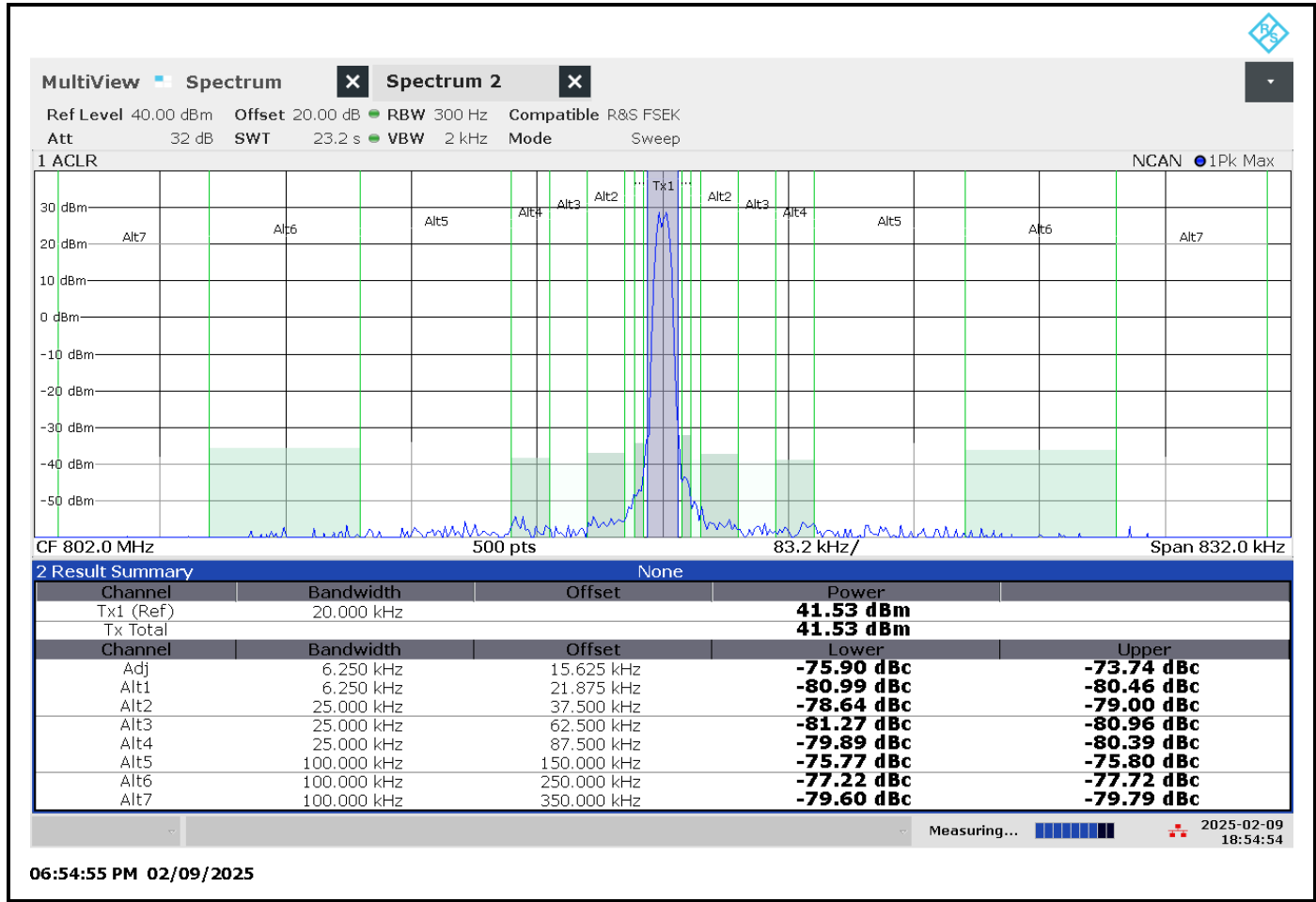


Table 6-18: Adjacent Channel Power – 802.0000 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.4
12 MHz to receive band	30(s)	-75	-90.8
In the receive band	30(s)	-100	-116.7

Plot 6-18: Adjacent Channel Power – 805.9875 MHz; NPSPAC Analog Mode; (9.375 kHz - 350 kHz)

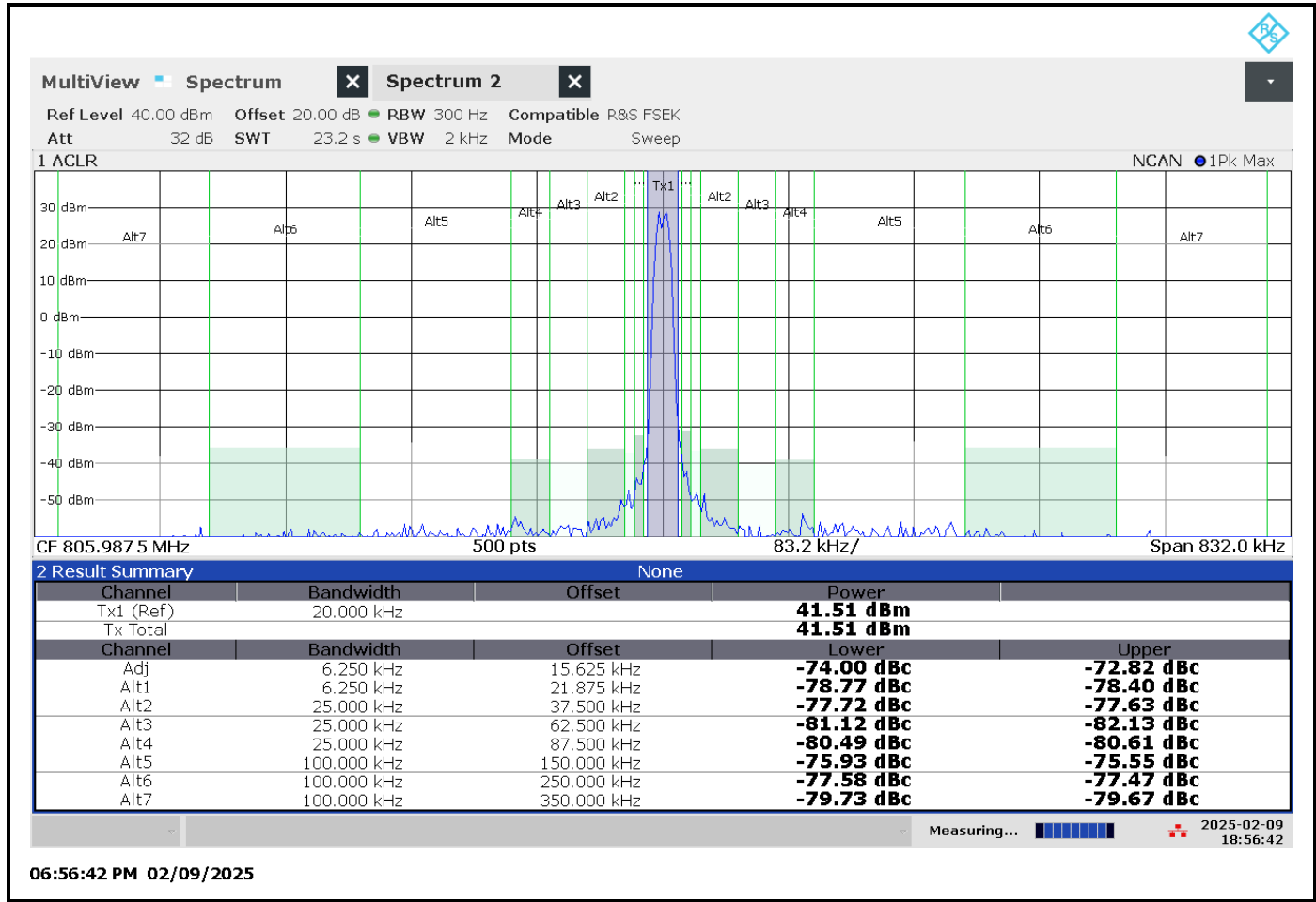


Table 6-19: Adjacent Channel Power – 805.9875 MHz; NPSPAC Analog Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.1
12 MHz to receive band	30(s)	-75	-91.2
In the receive band	30(s)	-100	-126.3

Plot 6-19: Adjacent Channel Power - 768.0125 MHz; WB 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

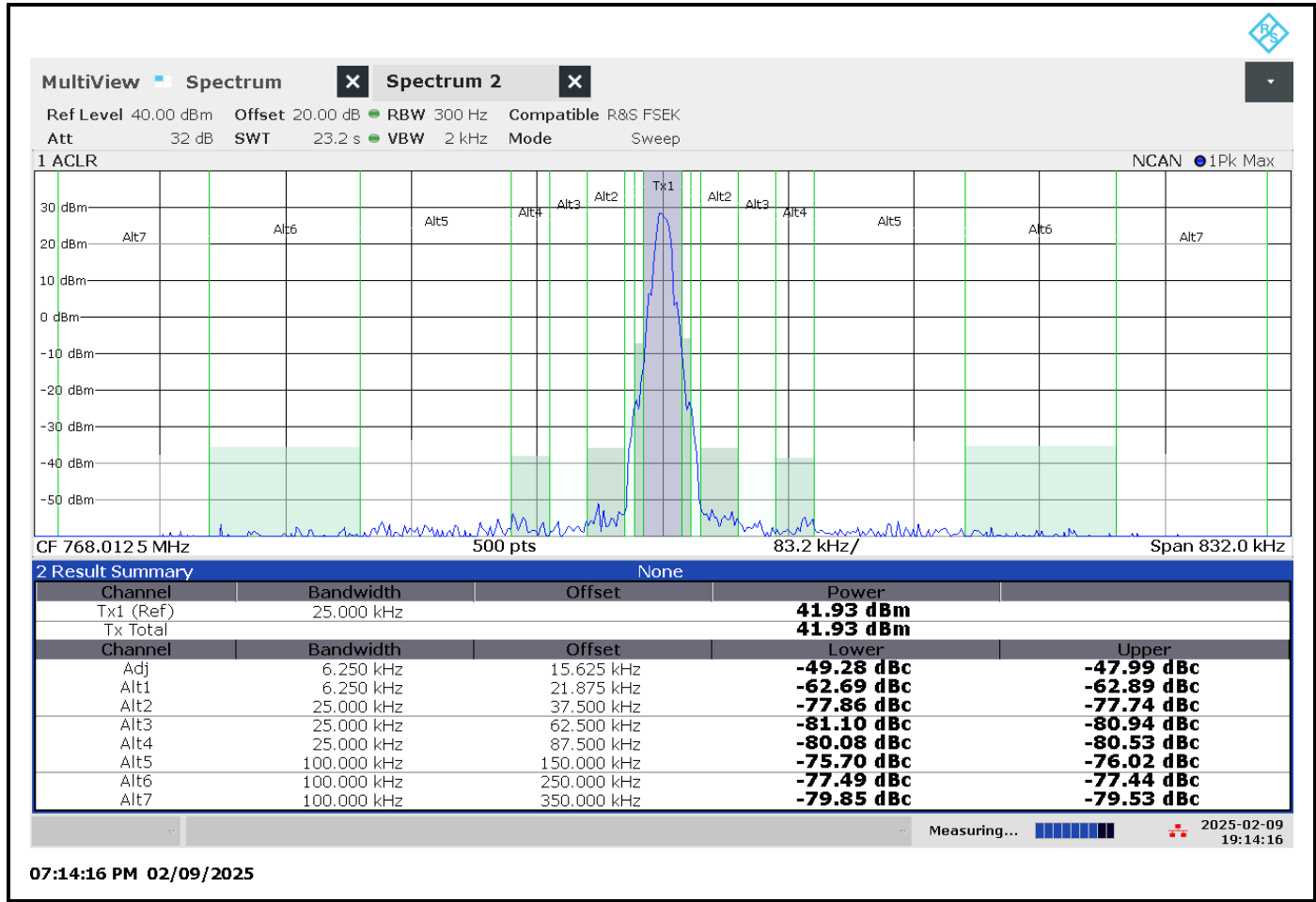


Table 6-20: Adjacent Channel Power - 768.0125 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.0
12 MHz to receive band	30(s)	-75	-91.7
In the receive band	30(s)	-100	-107.0

Plot 6-20: Adjacent Channel Power – 772.0000 MHz; WB 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

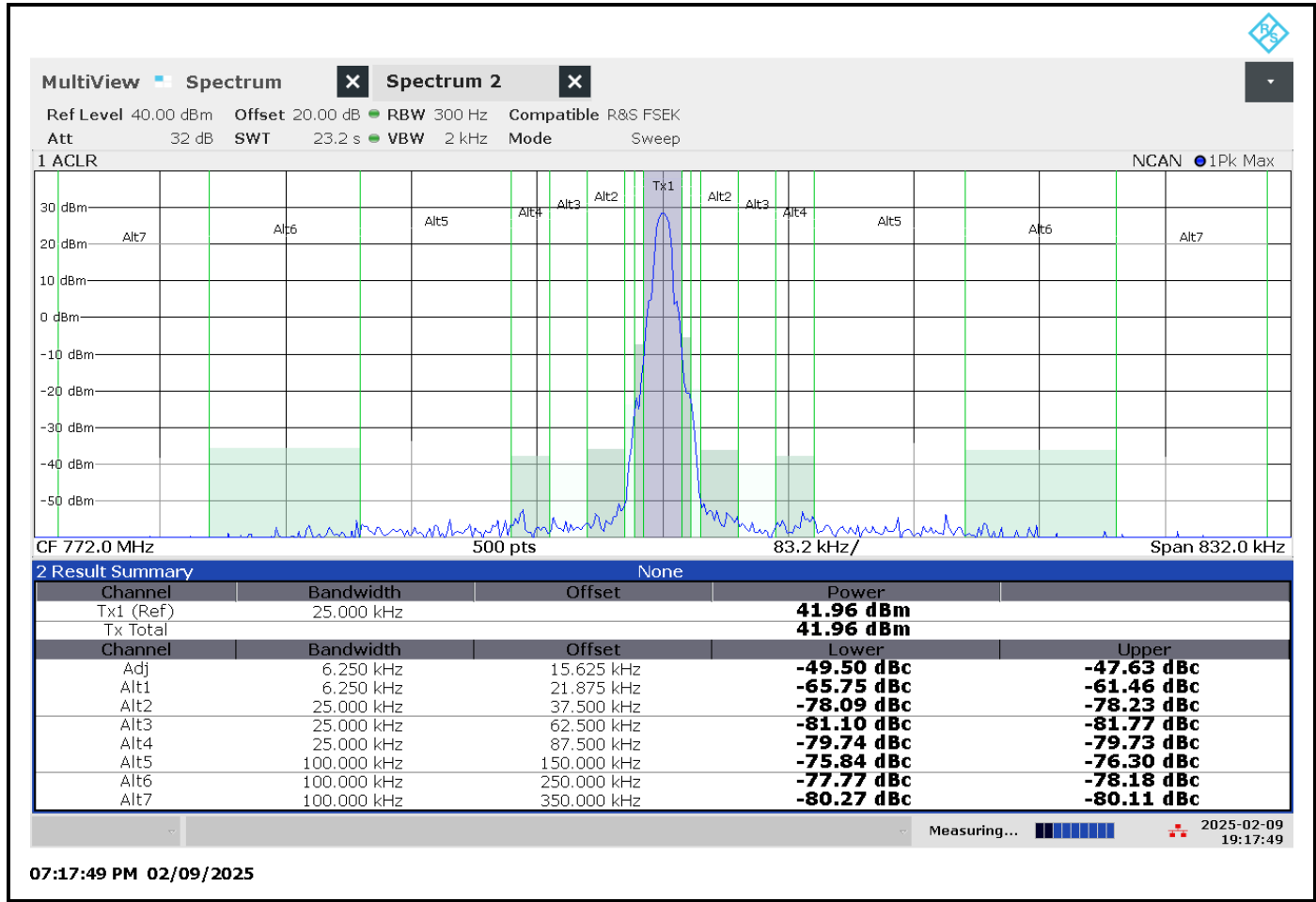


Table 6-21: Adjacent Channel Power – 772.0000 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.1
12 MHz to receive band	30(s)	-75	-91.7
In the receive band	30(s)	-100	-107.1

Plot 6-21: Adjacent Channel Power - 775.9875 MHz; WB 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

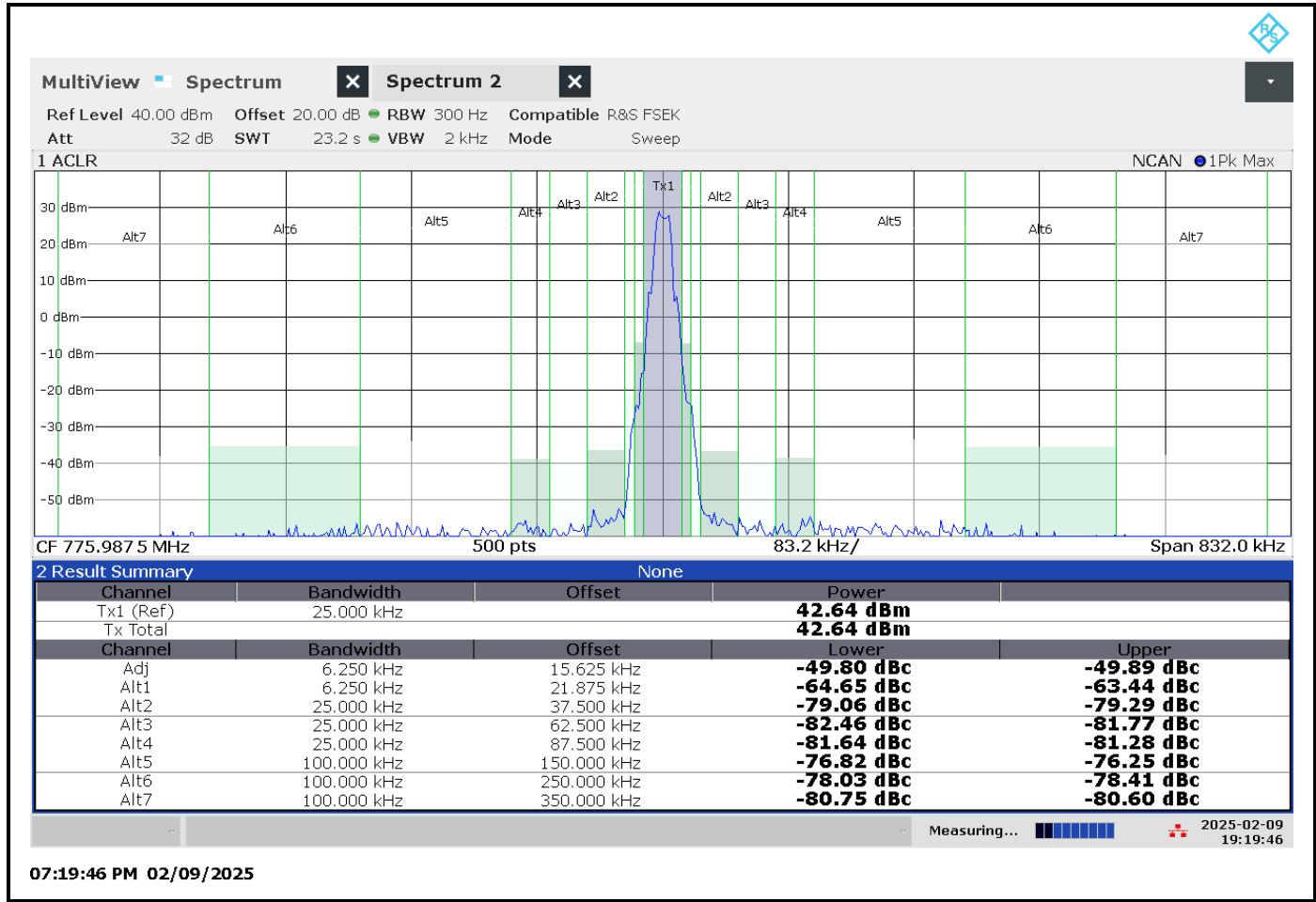


Table 6-22: Adjacent Channel Power - 775.9875 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.8
12 MHz to receive band	30(s)	-75	-91.9
In the receive band	30(s)	-100	-107.0

Plot 6-22: Adjacent Channel Power – 798.0125 MHz; WB 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

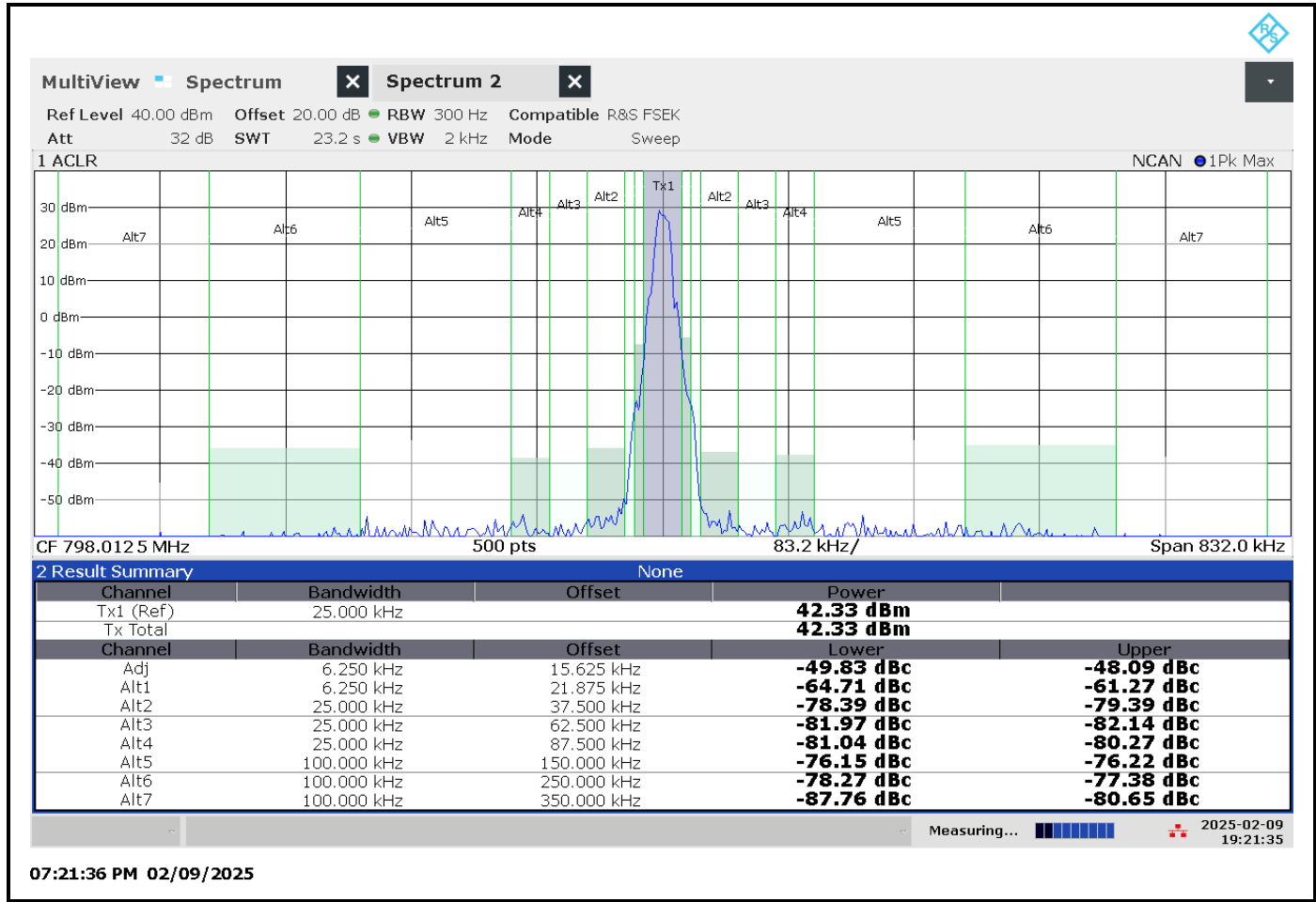


Table 6-23: Adjacent Channel Power – 798.0125 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.8
12 MHz to receive band	30(s)	-75	-96.8
In the receive band	30(s)	-100	-102.2

Plot 6-23: Adjacent Channel Power – 802.0000 MHz; WB 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

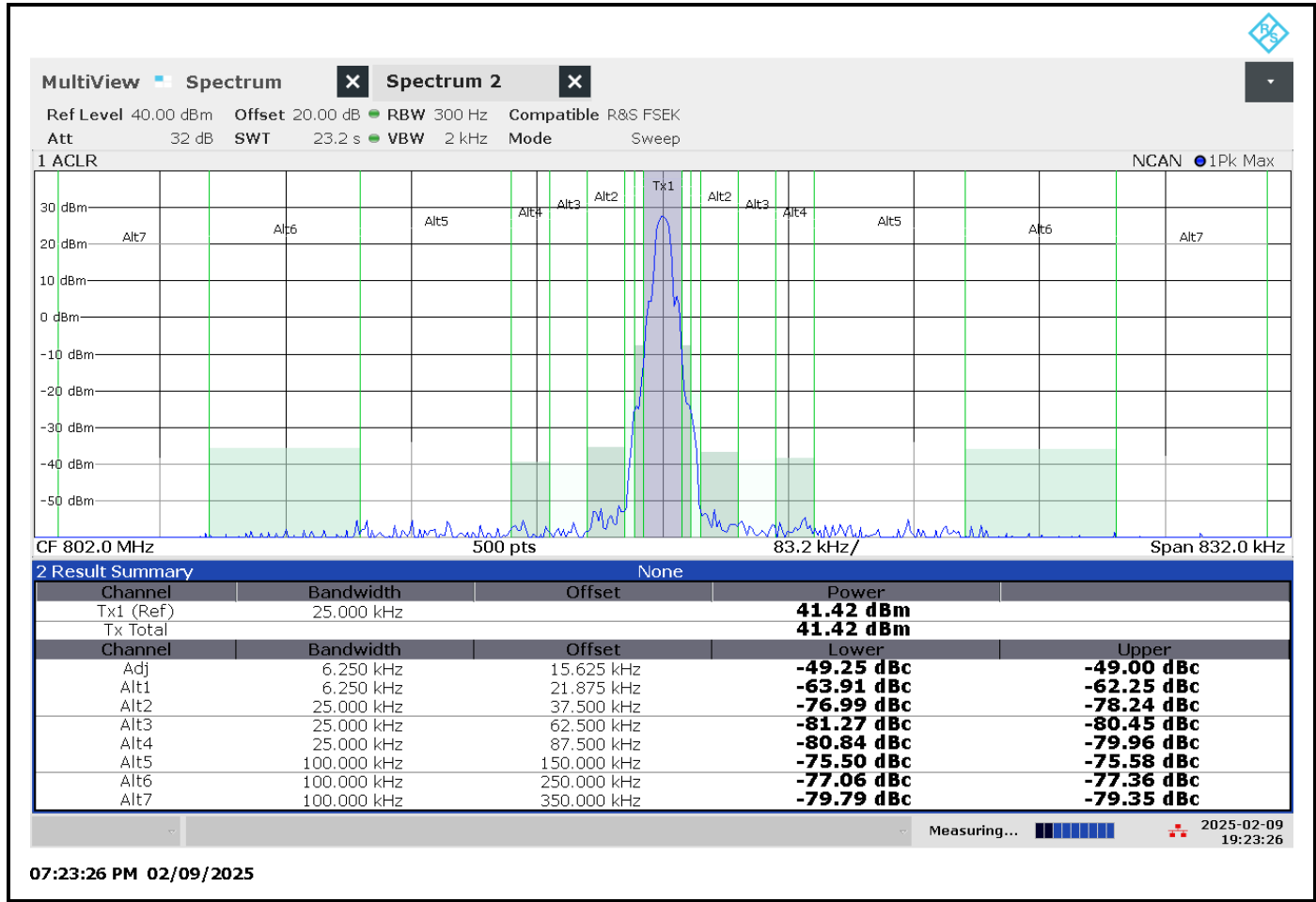


Table 6-24: Adjacent Channel Power – 802.0000 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.1
12 MHz to receive band	30(s)	-75	-95.3
In the receive band	30(s)	-100	-105.6

Plot 6-24: Adjacent Channel Power – 805.9875 MHz; WB 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

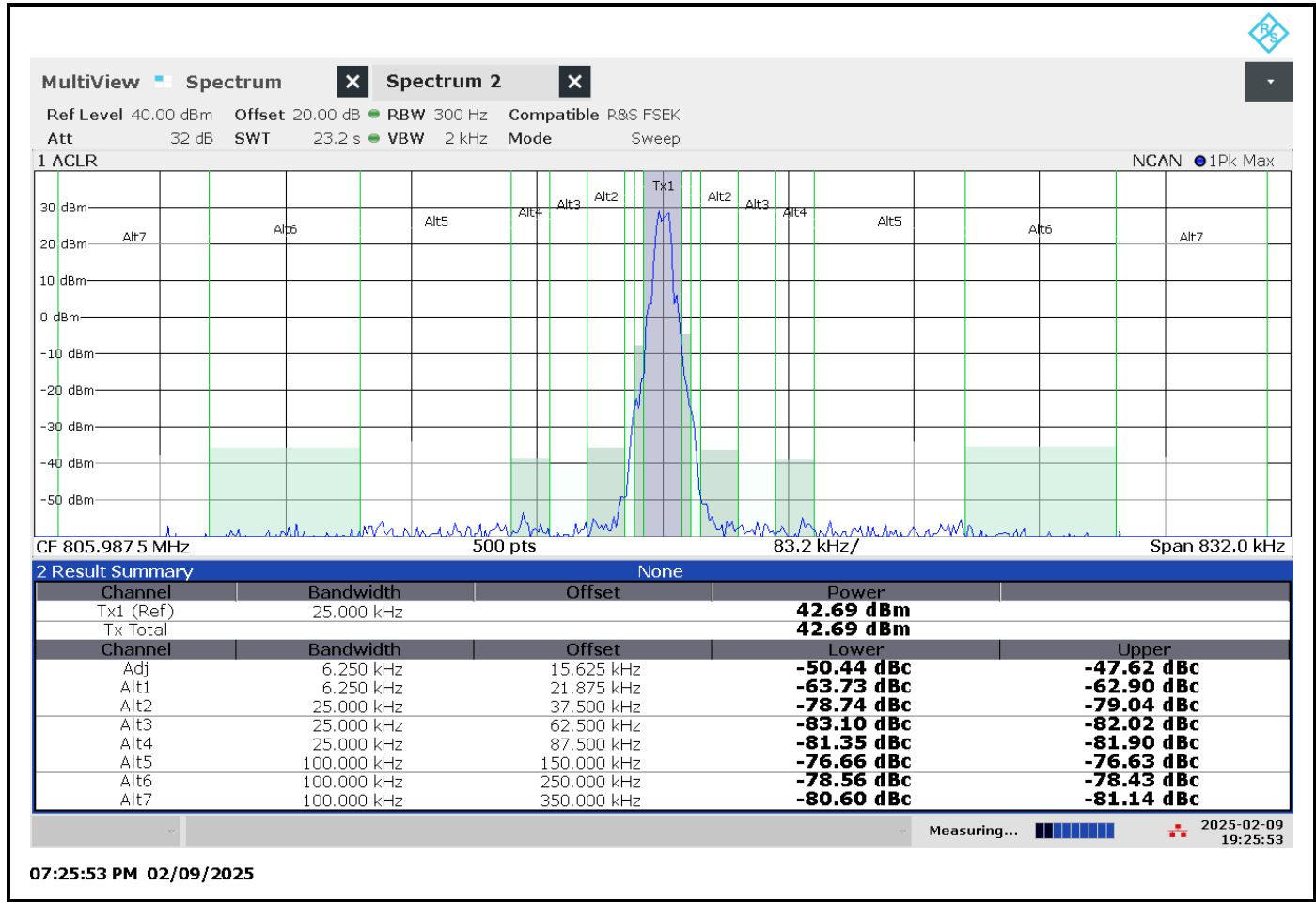


Table 6-25: Adjacent Channel Power – 805.9875 MHz; WB 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.4
12 MHz to receive band	30(s)	-75	-95.7
In the receive band	30(s)	-100	-107.2

Plot 6-25: Adjacent Channel Power - 768.0125 MHz; NPSPAC 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

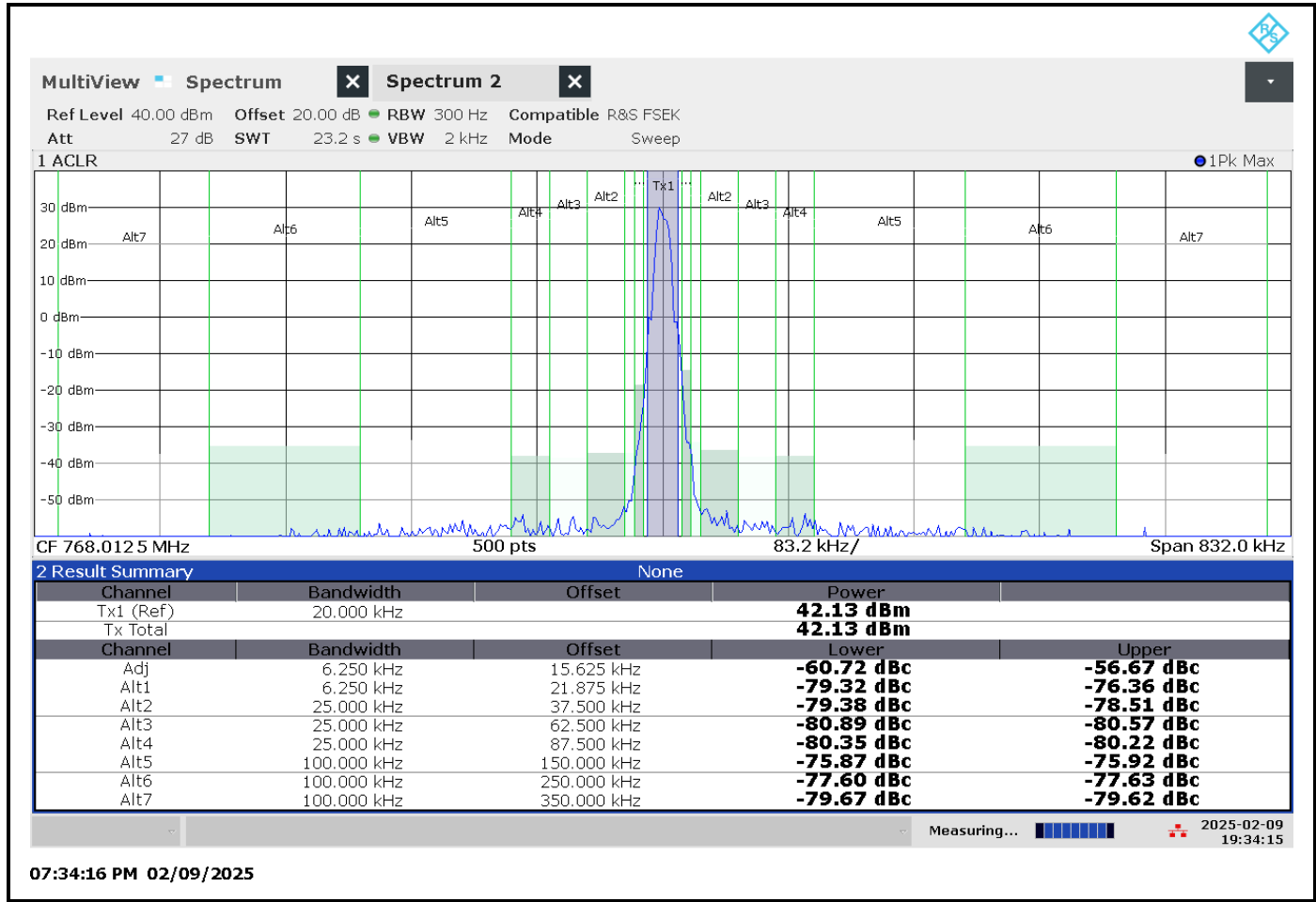


Table 6-26: Adjacent Channel Power - 768.0125 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-77.0
12 MHz to receive band	30(s)	-75	-95.4
In the receive band	30(s)	-100	-101.4

Plot 6-26: Adjacent Channel Power – 772.0000 MHz; NPSPAC 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

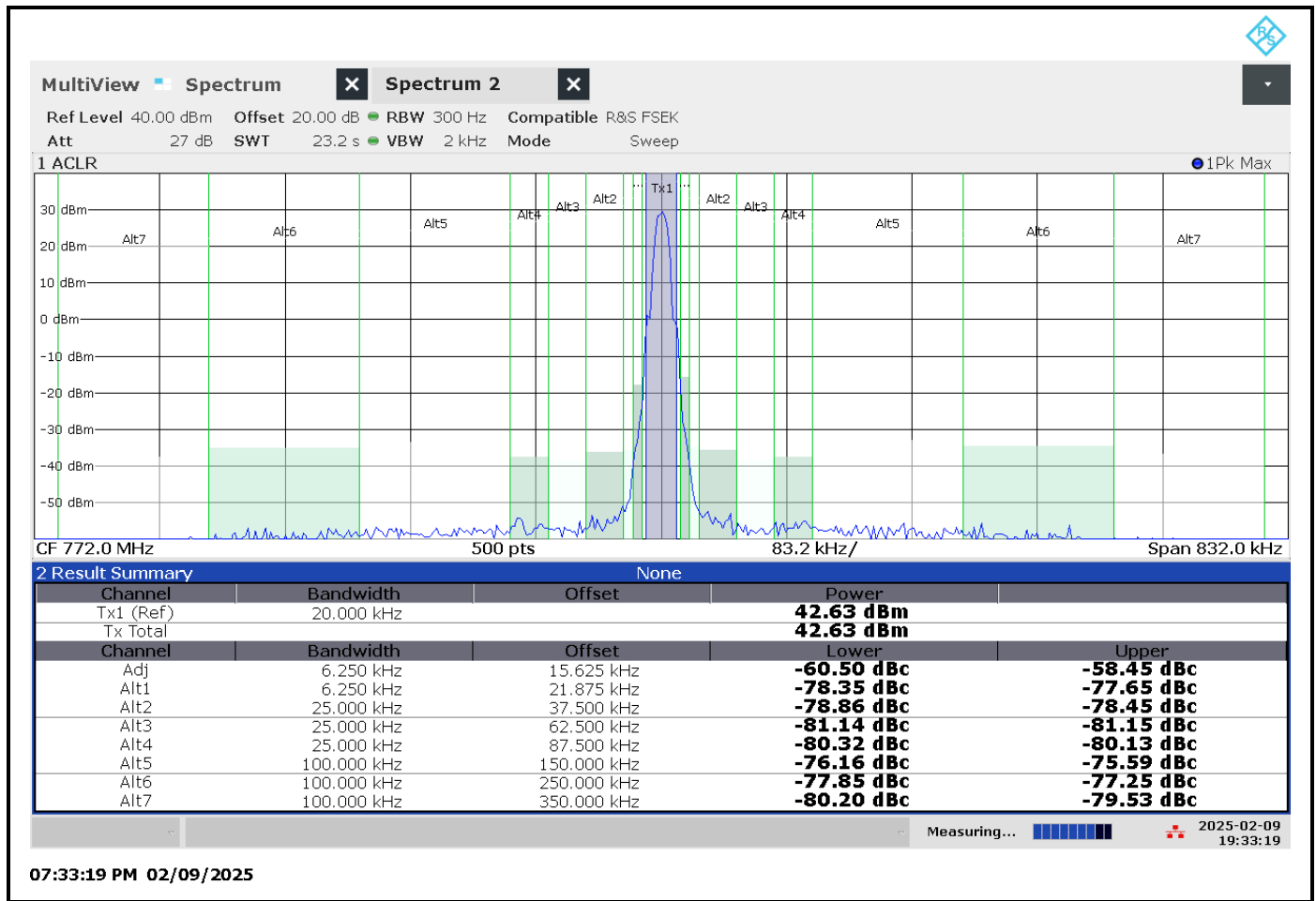


Table 6-27: Adjacent Channel Power – 772.0000 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-76.3
12 MHz to receive band	30(s)	-75	-95.3
In the receive band	30(s)	-100	-101.6

Plot 6-27: Adjacent Channel Power - 775.9875 MHz; NPSPAC 2-Level FSK 9600 Mode (9.375 kHz - 350 kHz)

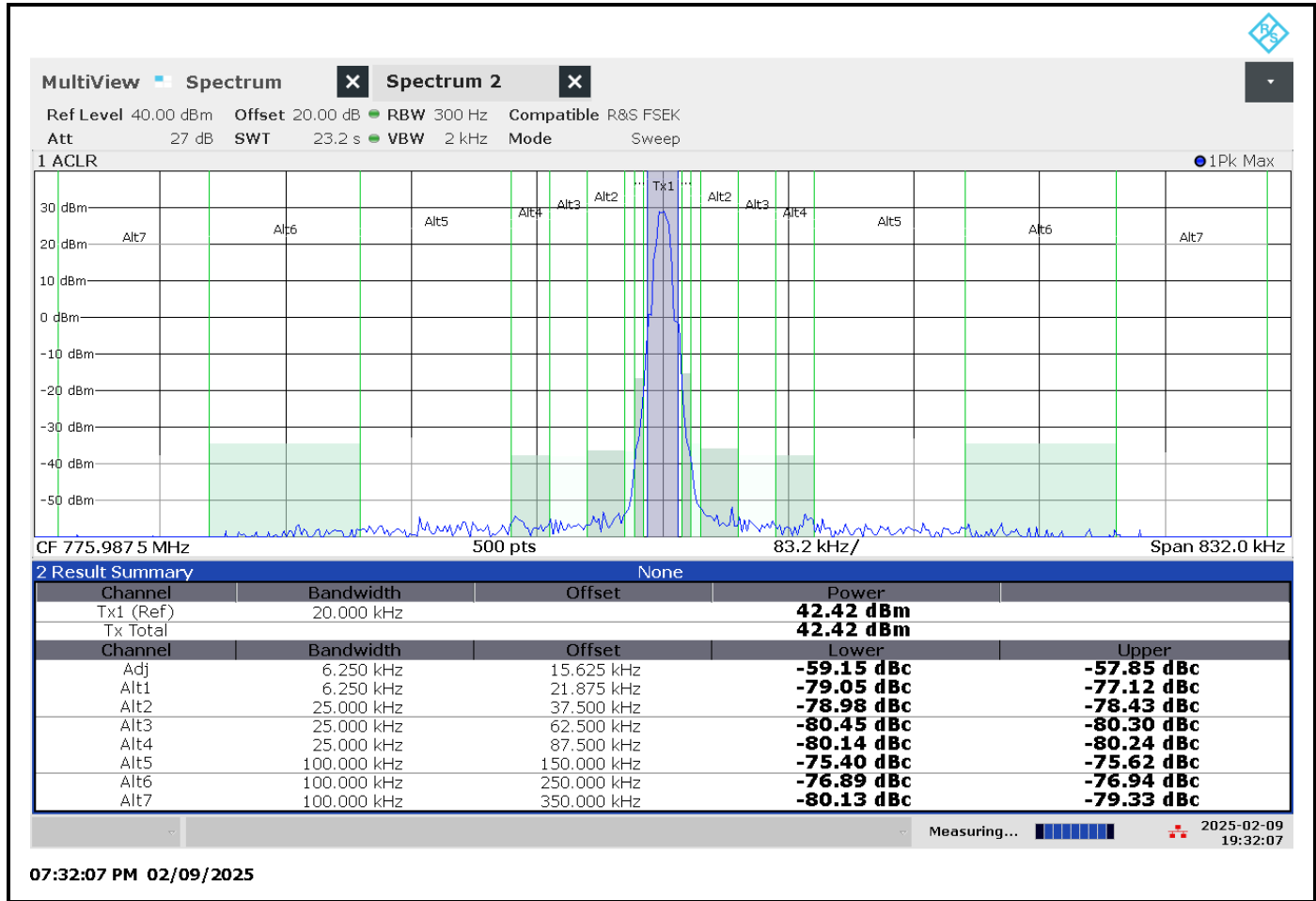


Table 6-28: Adjacent Channel Power - 775.9875 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-77.0
12 MHz to receive band	30(s)	-75	-96.3
In the receive band	30(s)	-100	-101.0

Plot 6-28: Adjacent Channel Power – 798.0125 MHz; NPSPAC 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

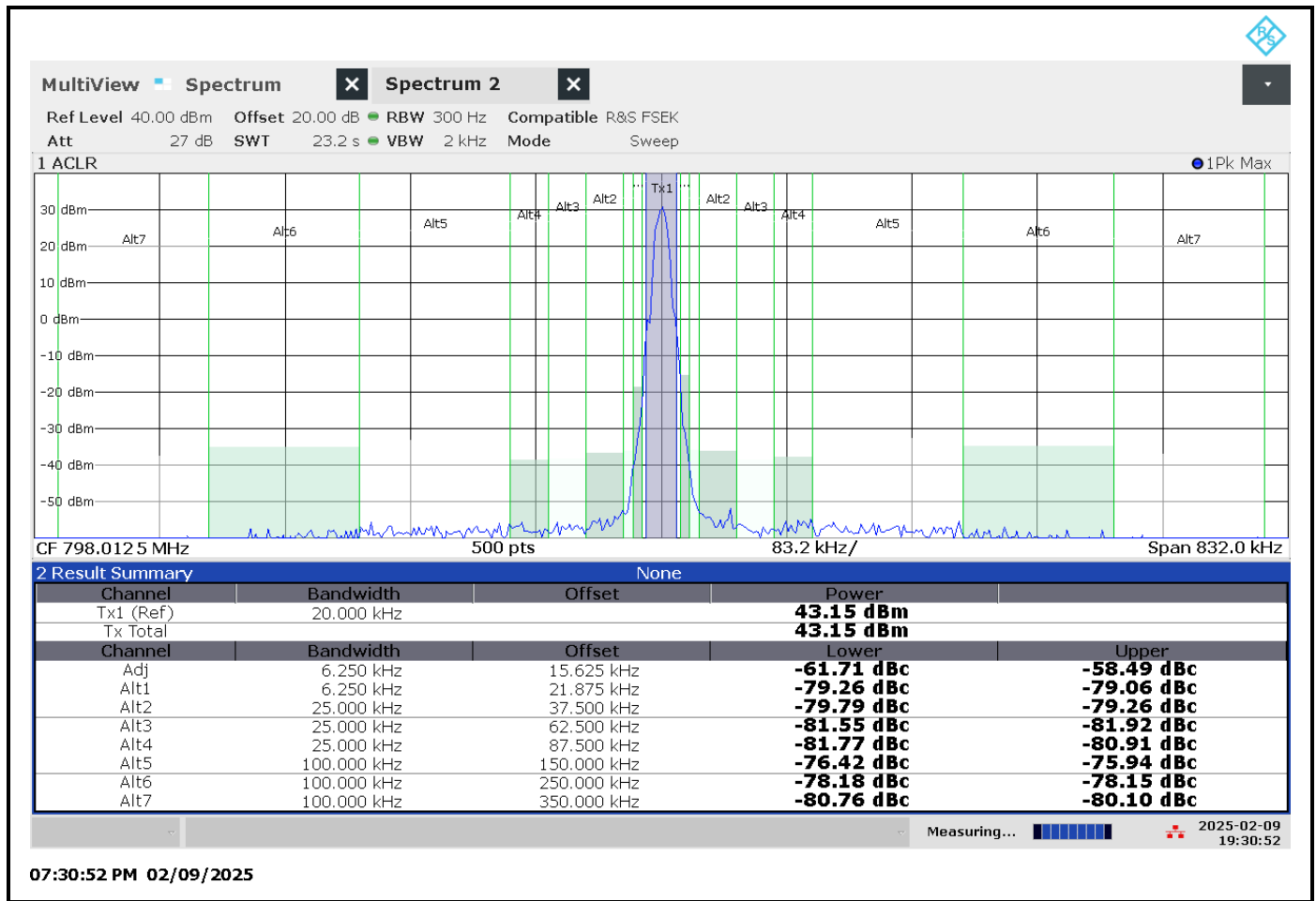


Table 6-29: Adjacent Channel Power – 798.0125 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-76.3
12 MHz to receive band	30(s)	-75	-96.5
In the receive band	30(s)	-100	-100.1

Plot 6-29: Adjacent Channel Power – 802.0000 MHz; NPSPAC 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

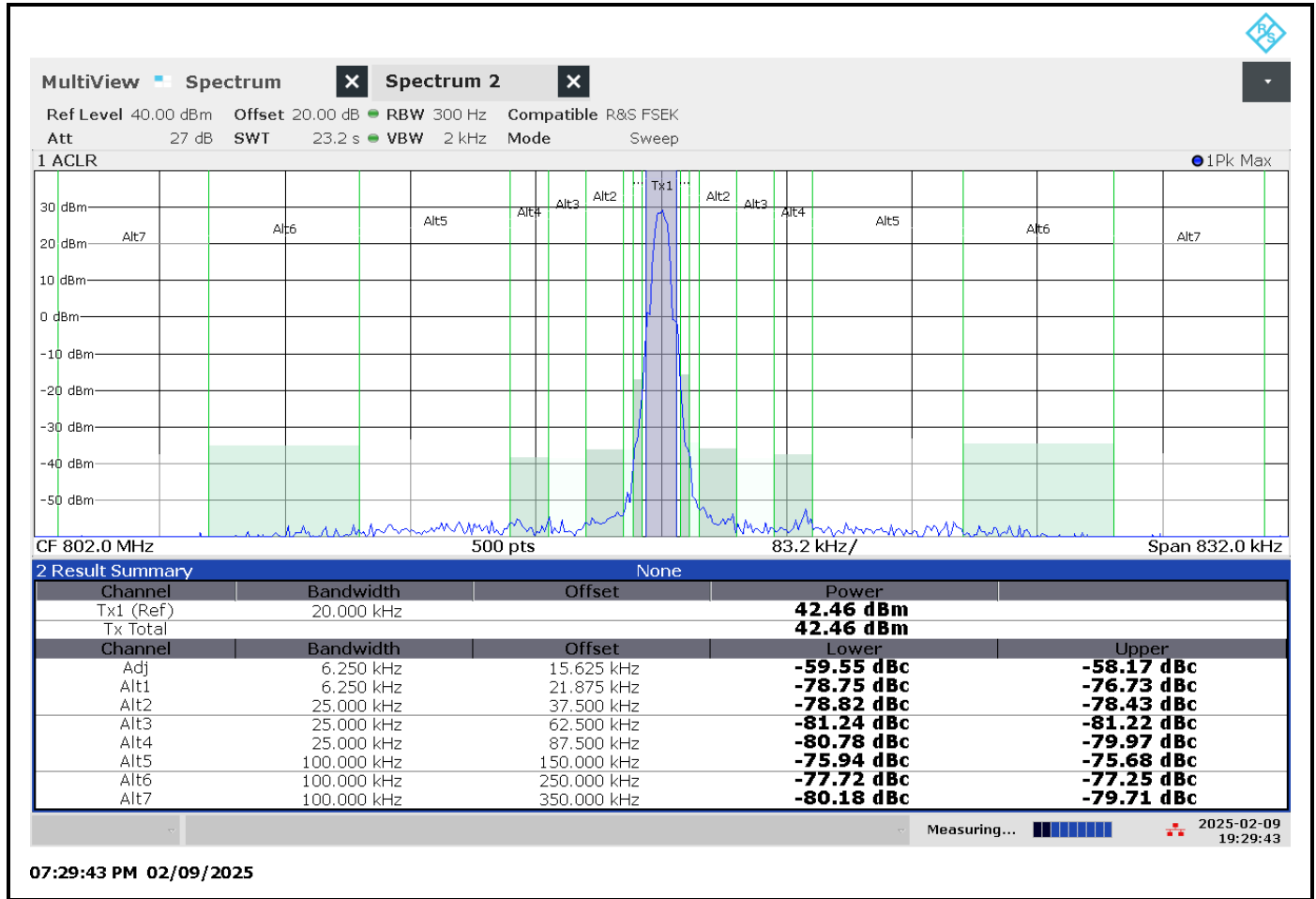


Table 6-30: Adjacent Channel Power – 802.0000 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.0
12 MHz to receive band	30(s)	-75	-95.0
In the receive band	30(s)	-100	-101.7

Plot 6-30: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-Level FSK 9600 Mode; (9.375 kHz - 350 kHz)

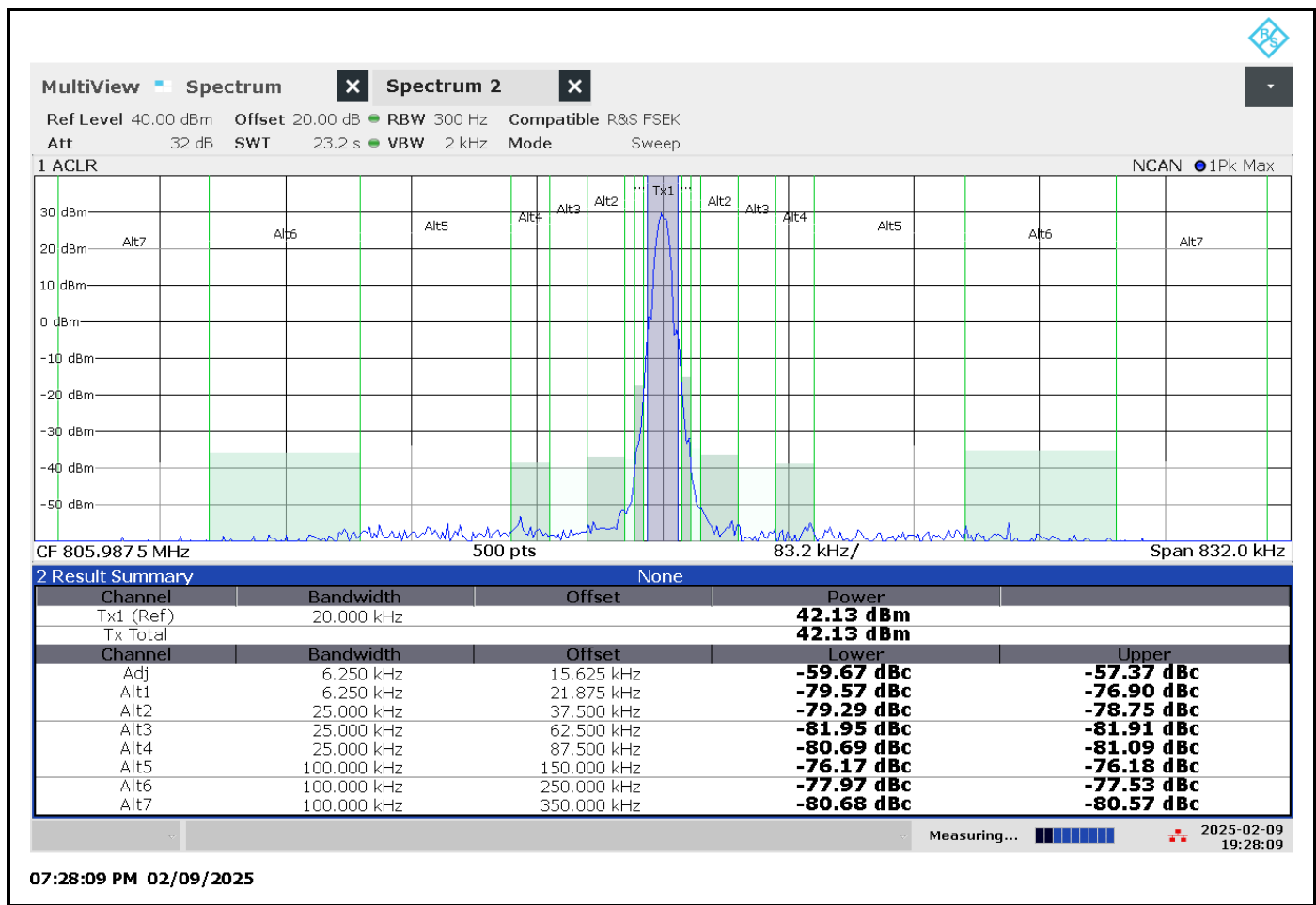


Table 6-31: Adjacent Channel Power – 805.9875 MHz; NPSPAC 2-Level FSK 9600 Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.6
12 MHz to receive band	30(s)	-75	-95.8
In the receive band	30(s)	-100	-102.9

Plot 6-31: Adjacent Channel Power - 768.0125 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

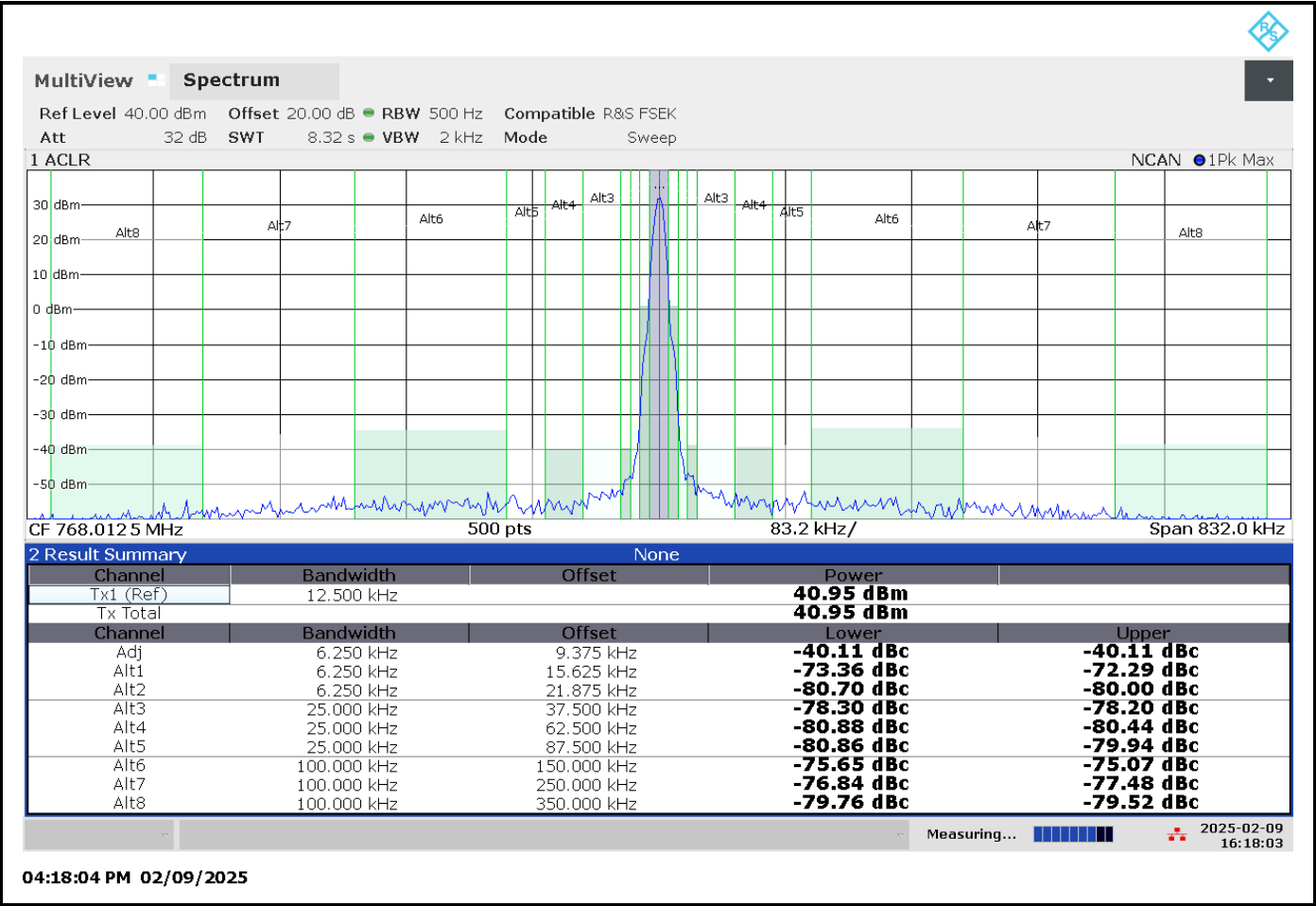


Table 6-32: Adjacent Channel Power - 768.0125 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-82.1
12 MHz to receive band	30(s)	-75	-91.7
In the receive band	30(s)	-100	-118.6

Plot 6-32: Adjacent Channel Power - 772.0000 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

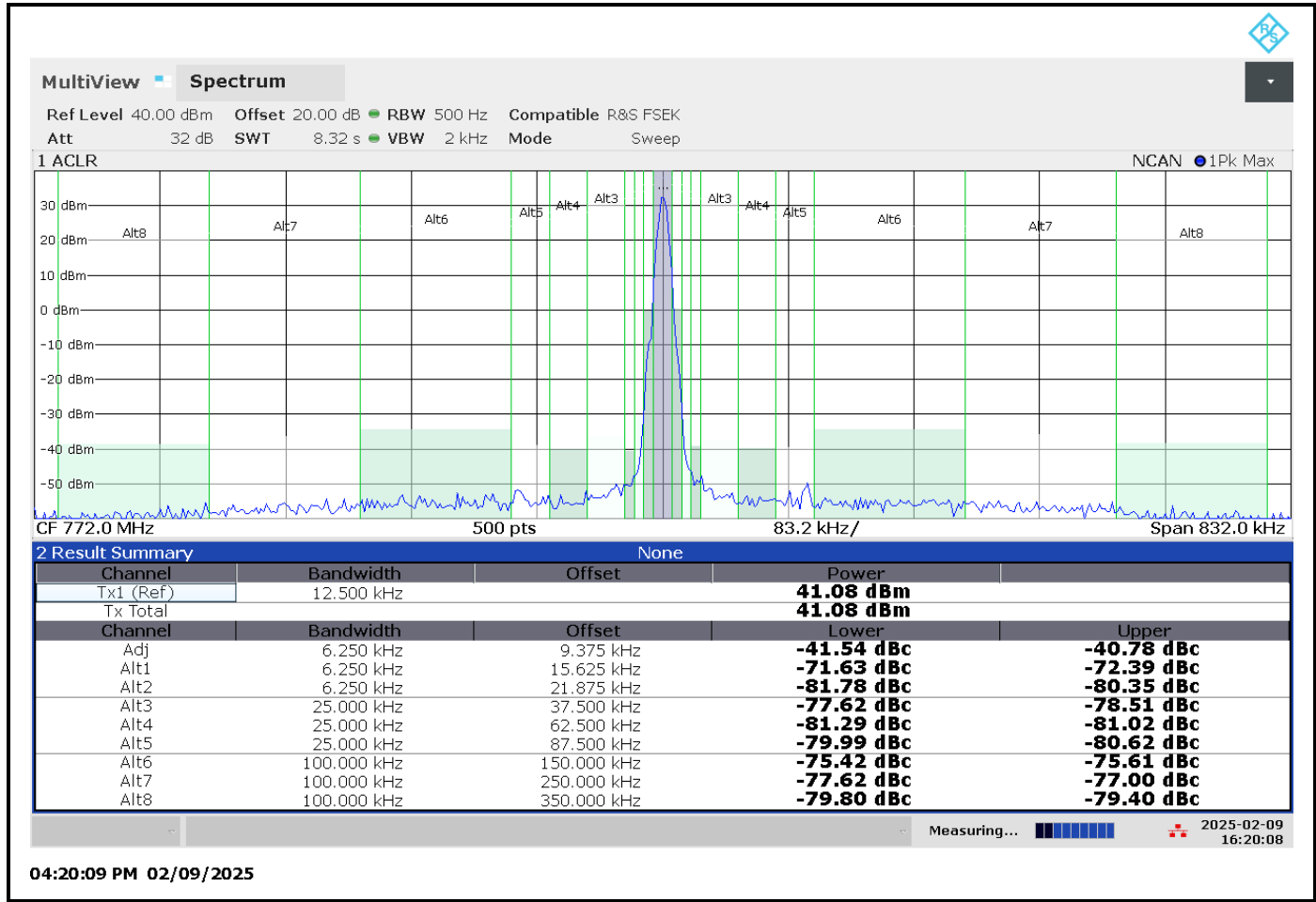


Table 6-33: Adjacent Channel Power - 772.0000 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-82.4
12 MHz to receive band	30(s)	-75	-95.9
In the receive band	30(s)	-100	-118.7

Plot 6-33: Adjacent Channel Power - 775.9875 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

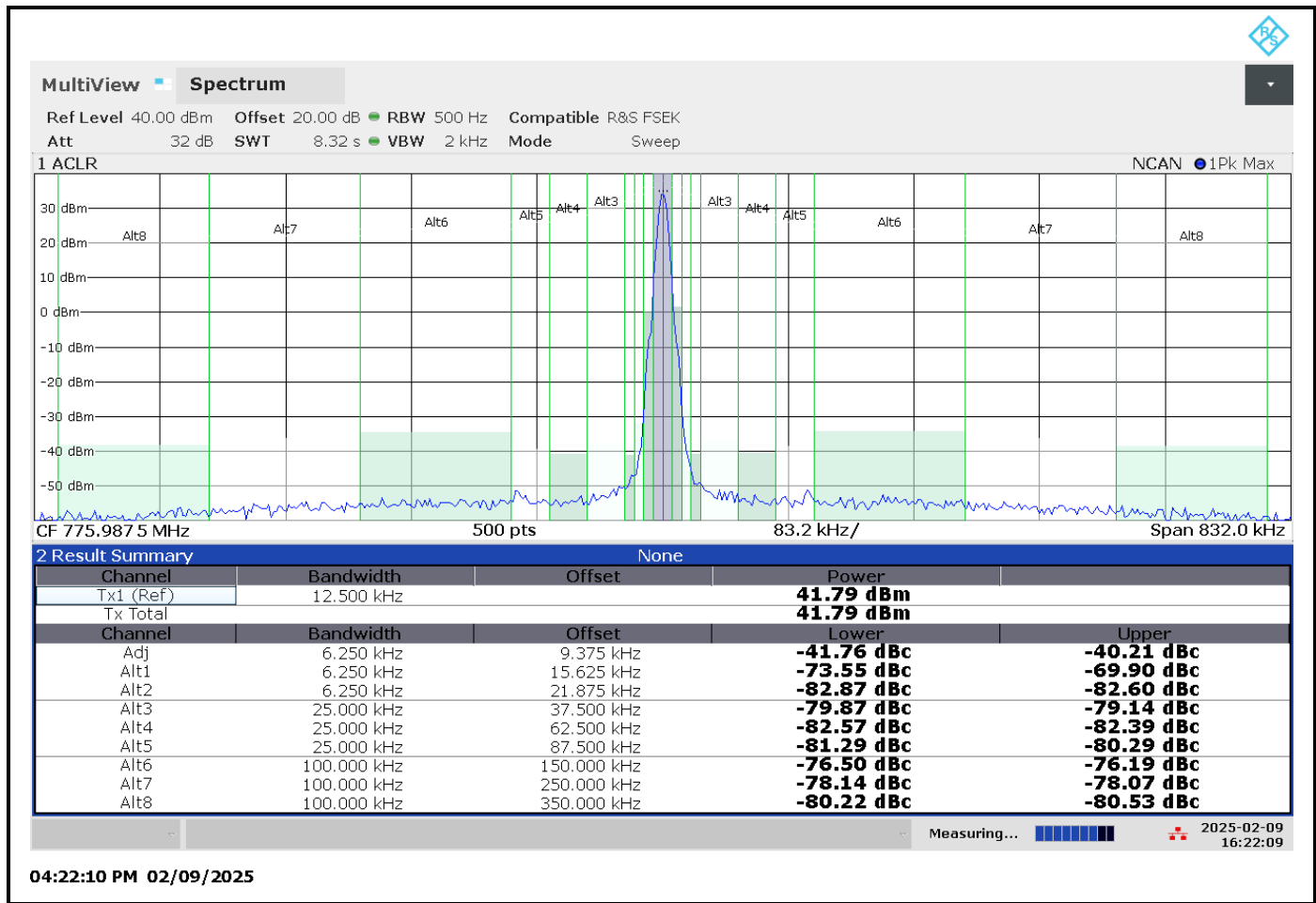


Table 6-34: Adjacent Channel Power - 775.9875 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.3
12 MHz to receive band	30(s)	-75	-93.3
In the receive band	30(s)	-100	-117.6

Plot 6-34: Adjacent Channel Power – 798.0125 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

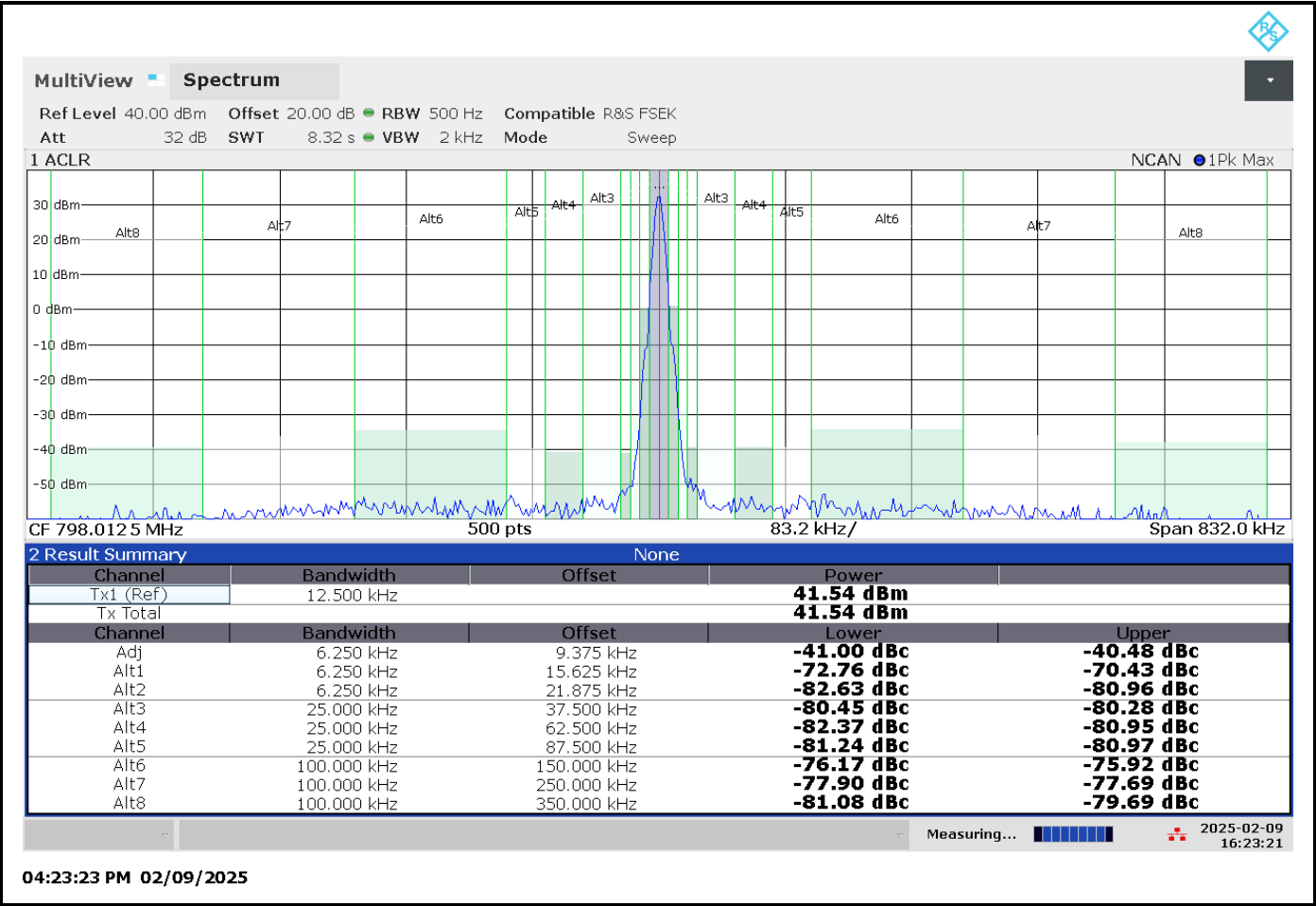


Table 6-35: Adjacent Channel Power – 798.0125 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.4
12 MHz to receive band	30(s)	-75	-93.5
In the receive band	30(s)	-100	-103.1

Plot 6-35: Adjacent Channel Power – 802.0000 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

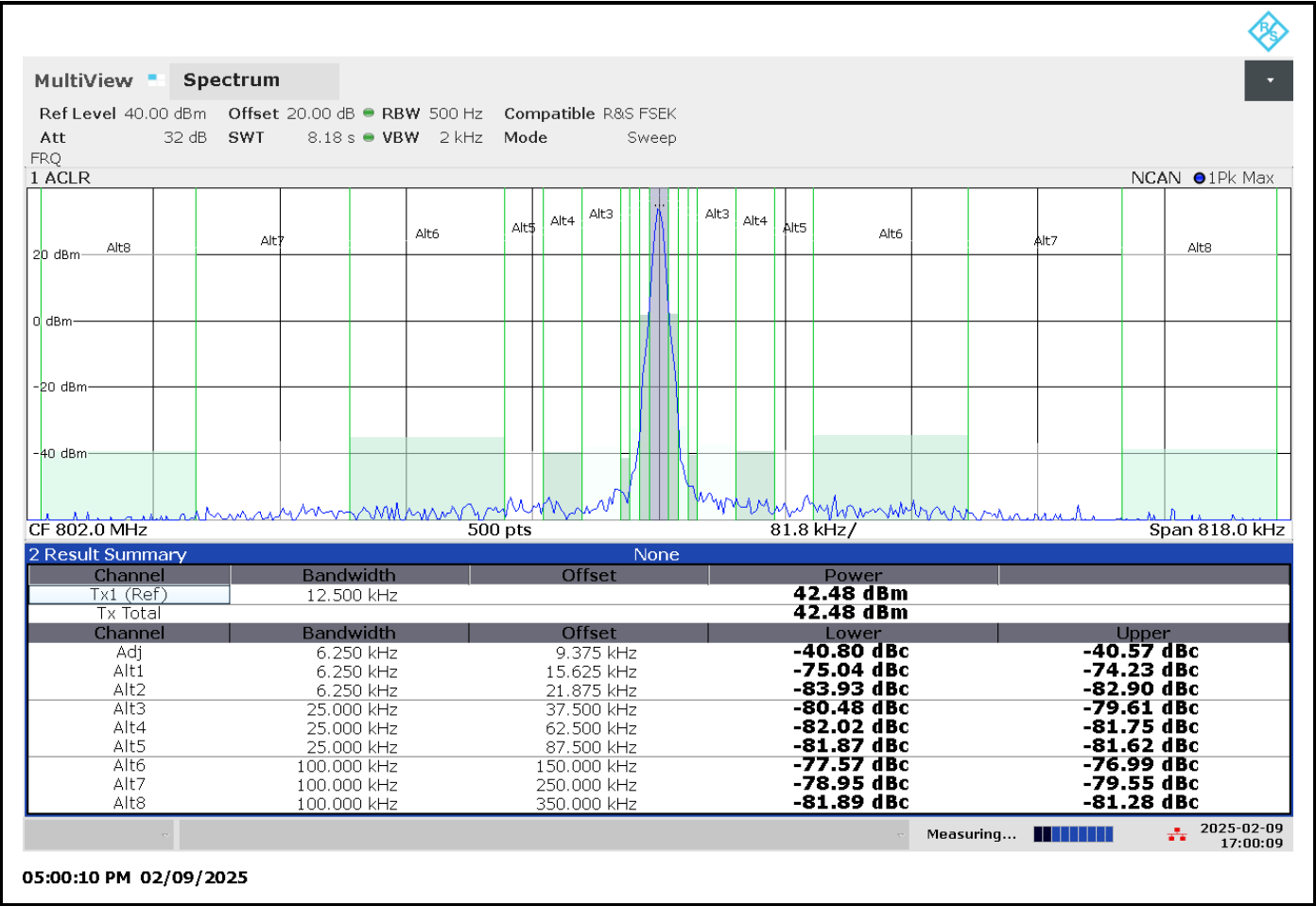


Table 6-36: Adjacent Channel Power – 802.0000 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-80.6
12 MHz to receive band	30(s)	-75	-90.2
In the receive band	30(s)	-100	-108.4

Plot 6-36: Adjacent Channel Power – 805.9875 MHz; NB 2-Level FSK 9600 (9.375 kHz - 350 kHz)

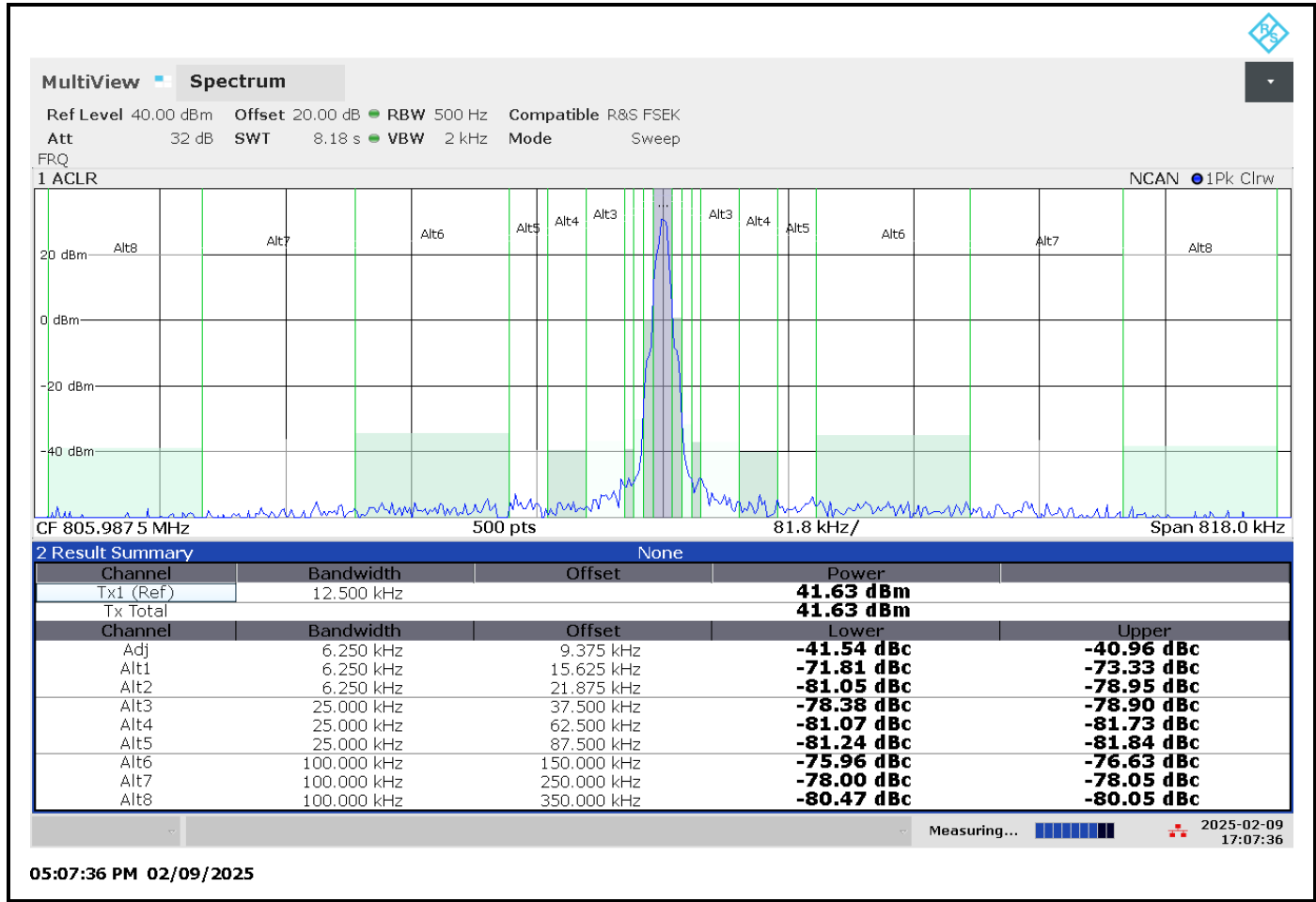


Table 6-37: Adjacent Channel Power – 805.9875 MHz; NB 2-Level FSK 9600 (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-81.7
12 MHz to receive band	30(s)	-75	-90.5
In the receive band	30(s)	-100	-118.5

Plot 6-37: Adjacent Channel Power - 768.0125 MHz; C4FM Mode (9.375 kHz - 350 kHz)

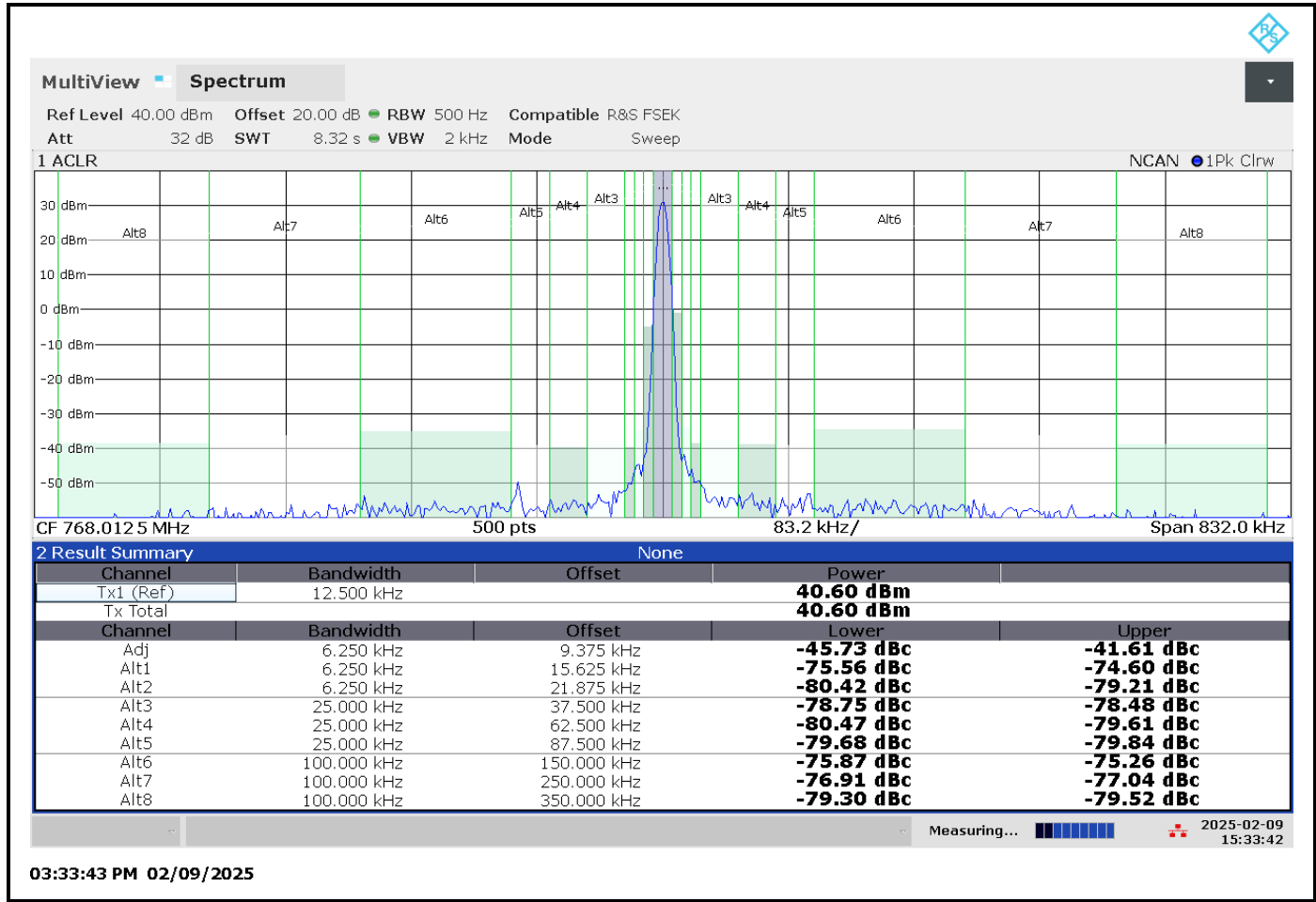


Table 6-38: Adjacent Channel Power - 768.0125 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.9
12 MHz to receive band	30(s)	-75	-96.6
In the receive band	30(s)	-100	-107.0

Plot 6-38: Adjacent Channel Power - 772.0000 MHz; C4FM Mode (9.375 kHz - 350 kHz)

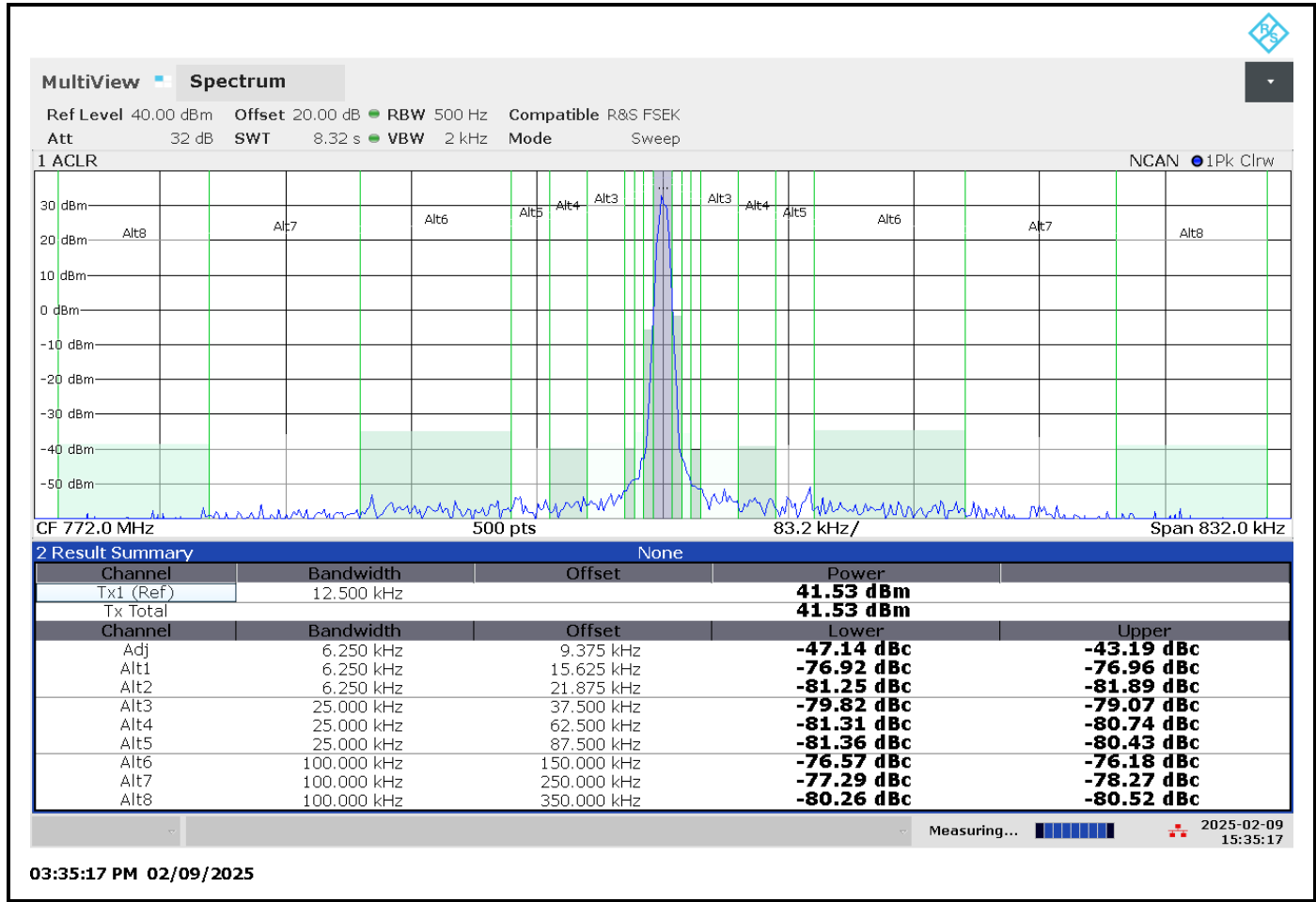


Table 6-39: Adjacent Channel Power - 772.0000 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.5
12 MHz to receive band	30(s)	-75	-96.5
In the receive band	30(s)	-100	-106.8

Plot 6-39: Adjacent Channel Power - 775.9875 MHz; C4FM Mode (9.375 kHz - 350 kHz)

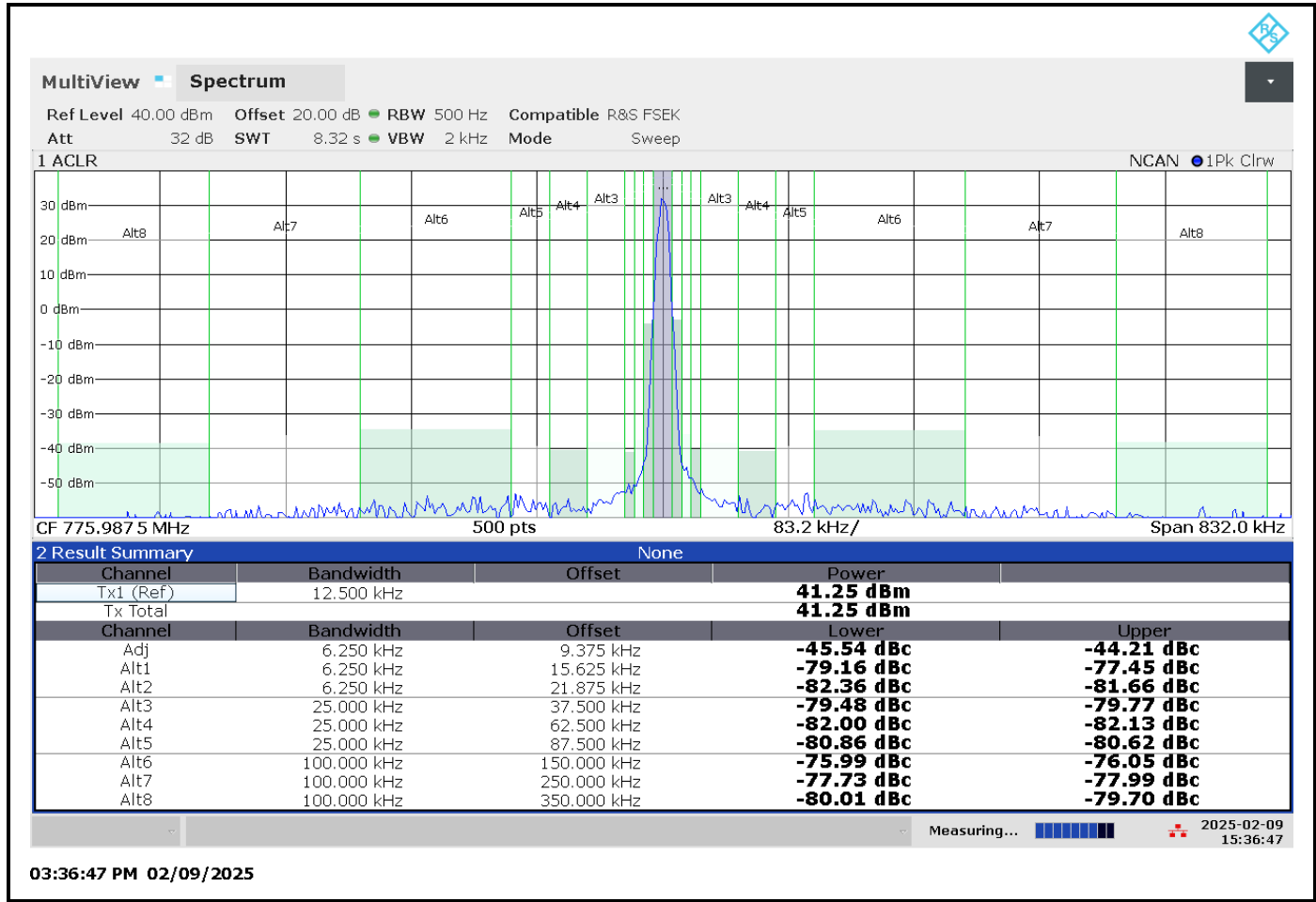


Table 6-40: Adjacent Channel Power - 775.9875 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.7
12 MHz to receive band	30(s)	-75	-96.0
In the receive band	30(s)	-100	-107.0

Plot 6-40: Adjacent Channel Power – 798.0125 MHz; C4FM Mode (9.375 kHz - 350 kHz)

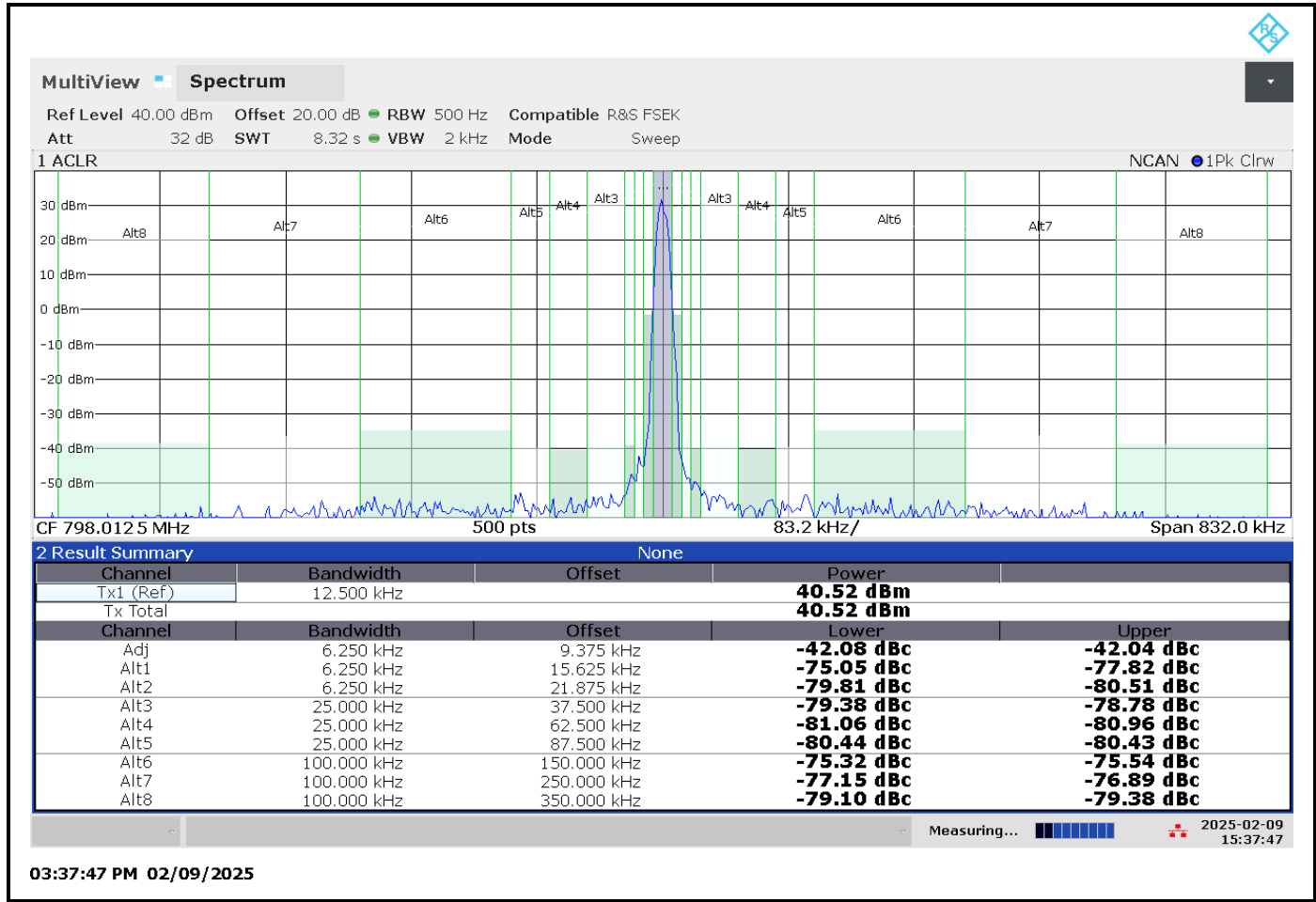


Table 6-41: Adjacent Channel Power – 798.0125 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.5
12 MHz to receive band	30(s)	-75	-96.4
In the receive band	30(s)	-100	-102.3

Plot 6-41: Adjacent Channel Power – 802.0000 MHz; C4FM Mode (9.375 kHz - 350 kHz)

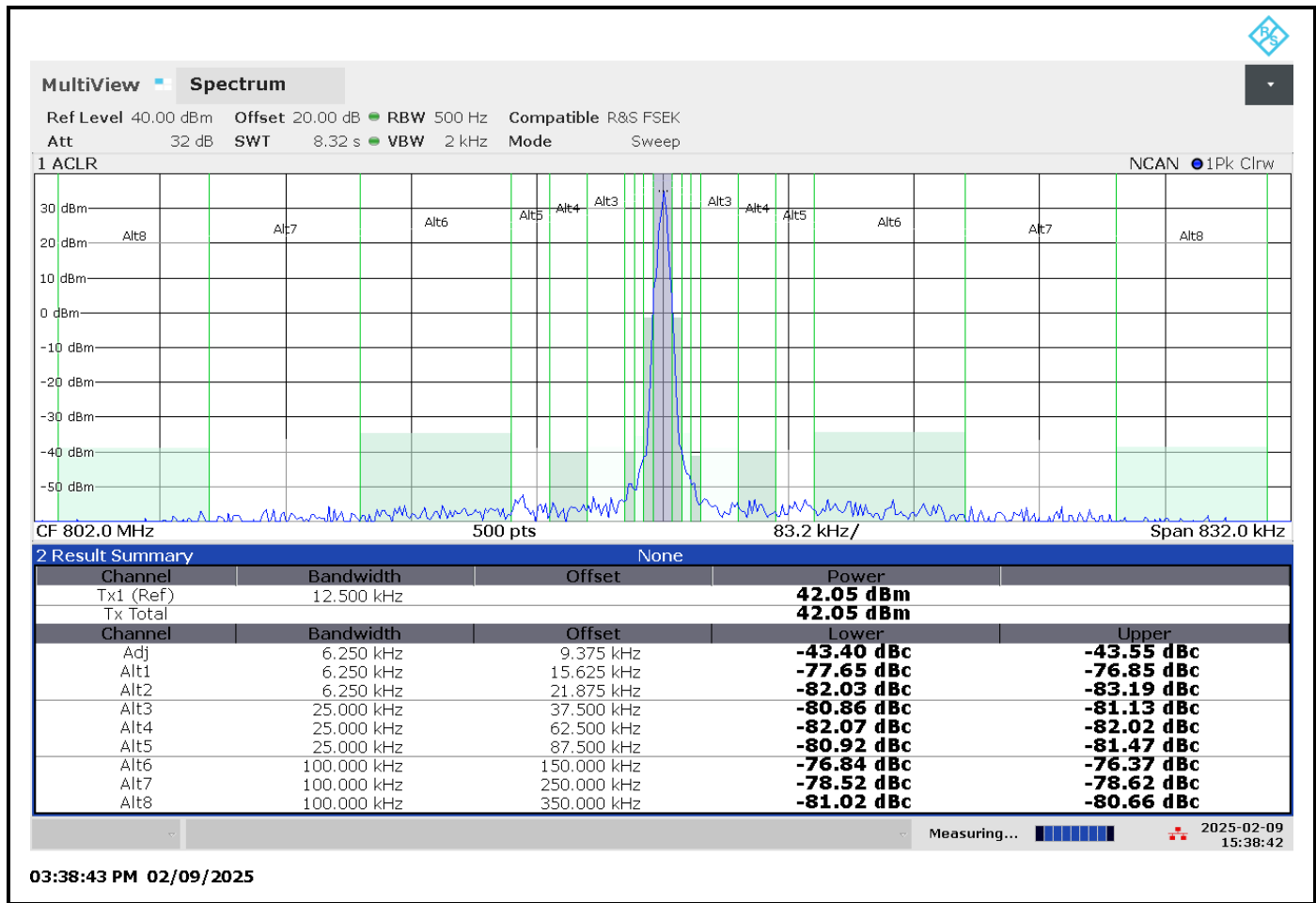


Table 6-42: Adjacent Channel Power – 802.0000 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.2
12 MHz to receive band	30(s)	-75	-95.4
In the receive band	30(s)	-100	-105.5

Plot 6-42: Adjacent Channel Power – 805.9875 MHz; C4FM Mode (9.375 kHz - 350 kHz)

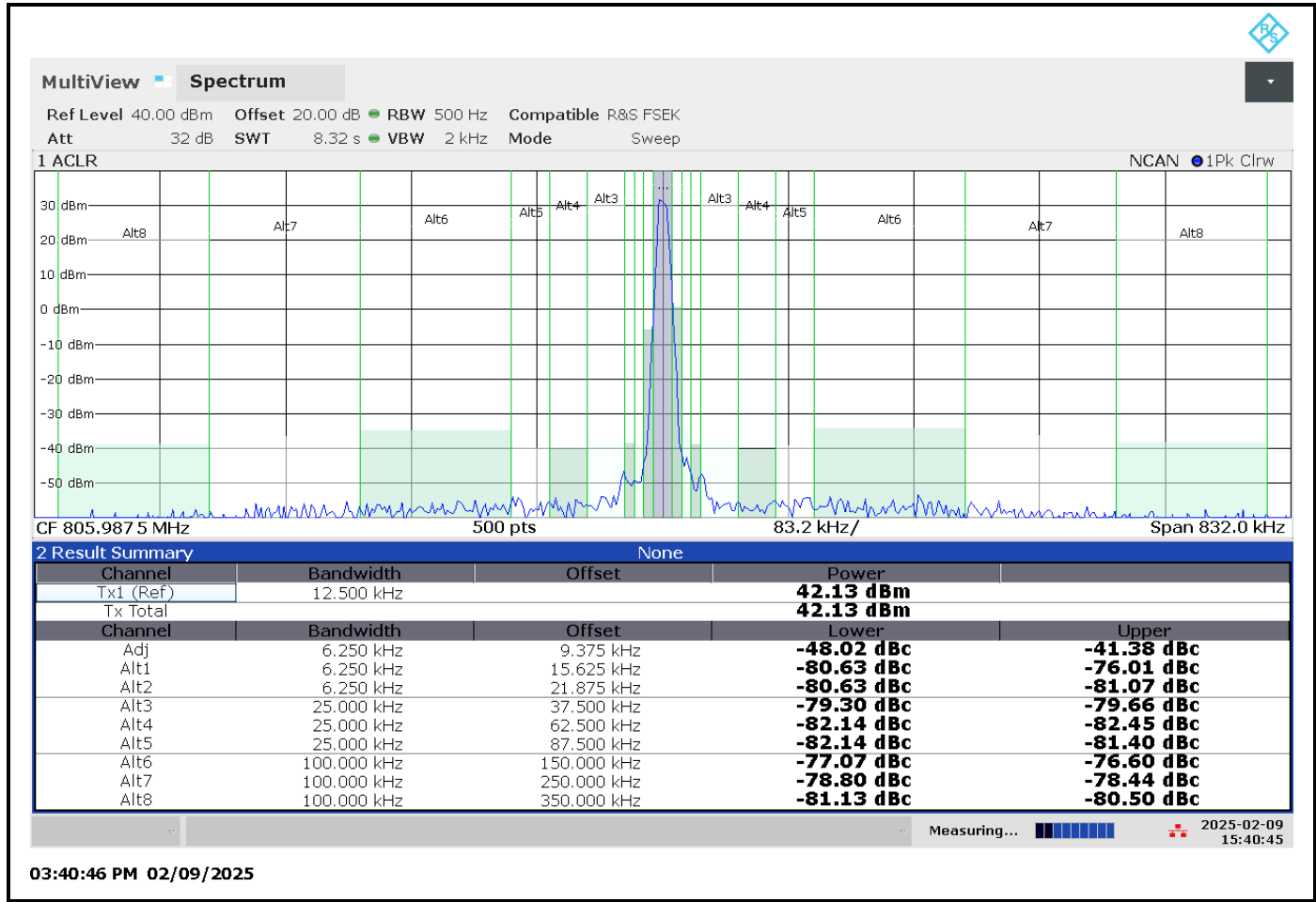


Table 6-43: Adjacent Channel Power – 805.9875 MHz; C4FM Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.1
12 MHz to receive band	30(s)	-75	-95.6
In the receive band	30(s)	-100	-107.8

Plot 6-43: Adjacent Channel Power - 768.0125 MHz; H-CPM (TDMA) Mode (9.375 kHz - 350 kHz)

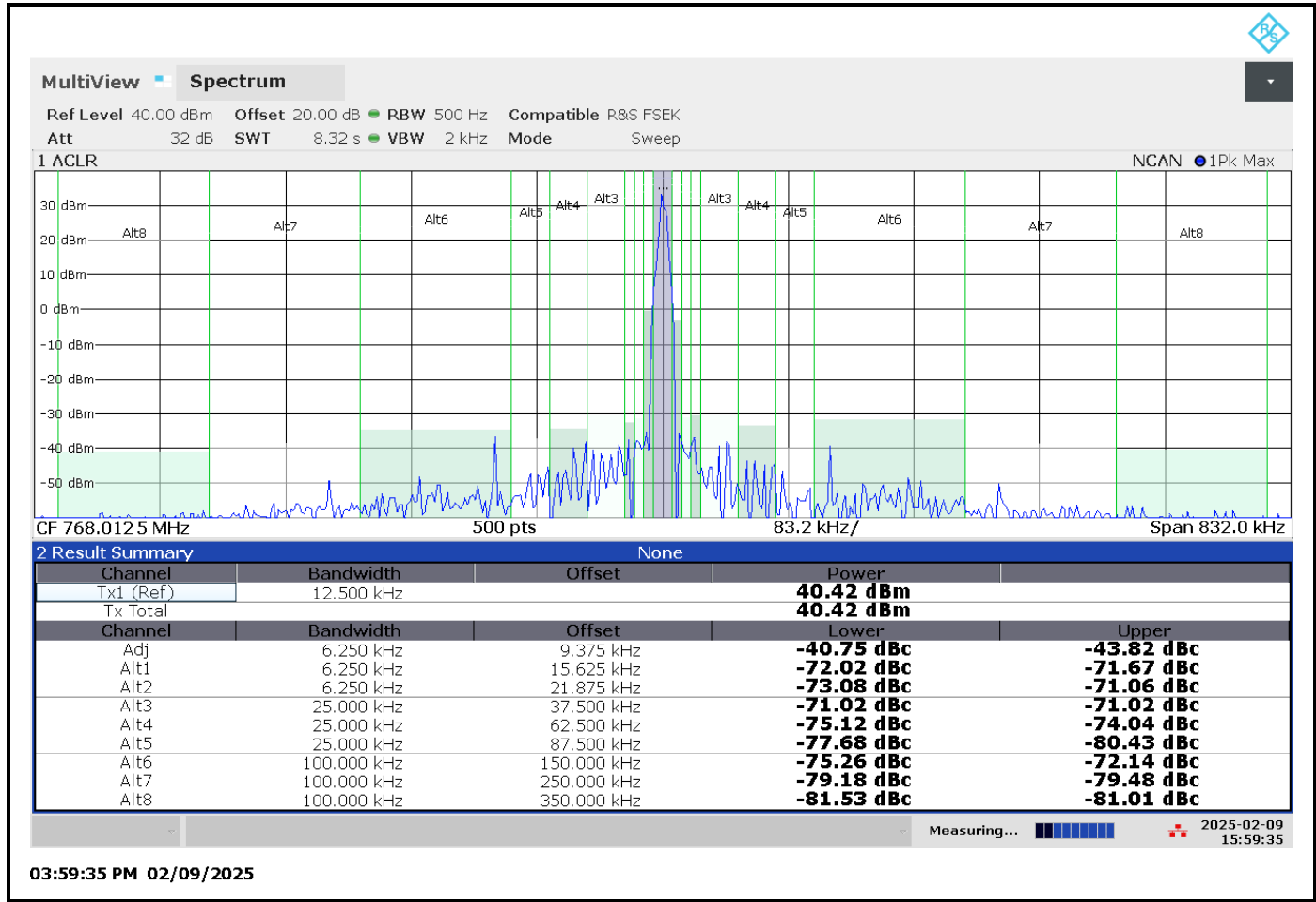


Table 6-44: Adjacent Channel Power - 768.0125 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-86.8
12 MHz to receive band	30(s)	-75	-103.0
In the receive band	30(s)	-100	-106.8

Plot 6-44: Adjacent Channel Power - 772.0000 MHz; H-CPM (TDMA) Mode (9.375 kHz - 350 kHz)

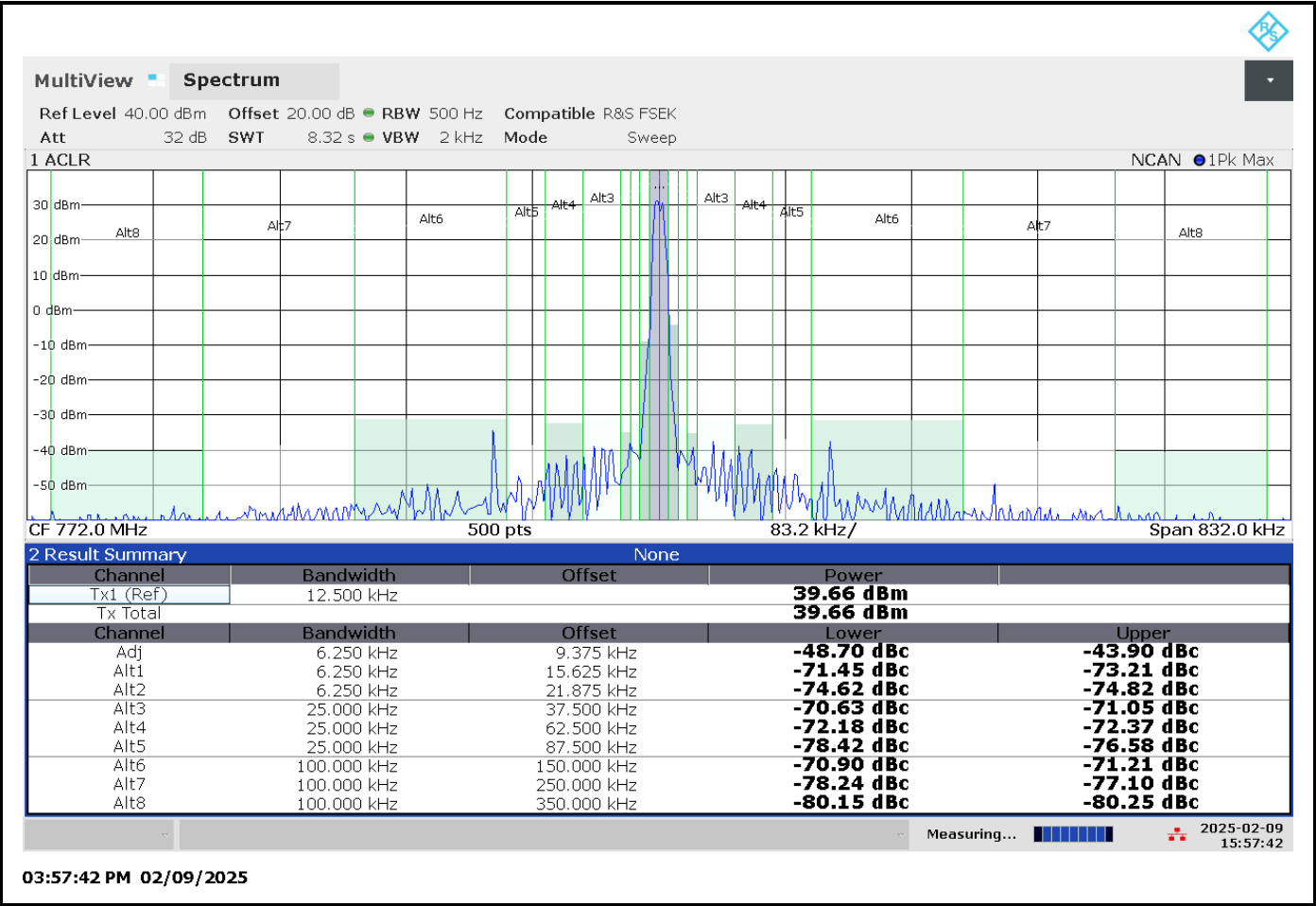


Table 6-45: Adjacent Channel Power - 772.0000 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.6
12 MHz to receive band	30(s)	-75	-96.9
In the receive band	30(s)	-100	-107.0

Plot 6-45: Adjacent Channel Power - 775.9875 MHz; H-CPM (TDMA) Mode (9.375 kHz - 350 kHz)

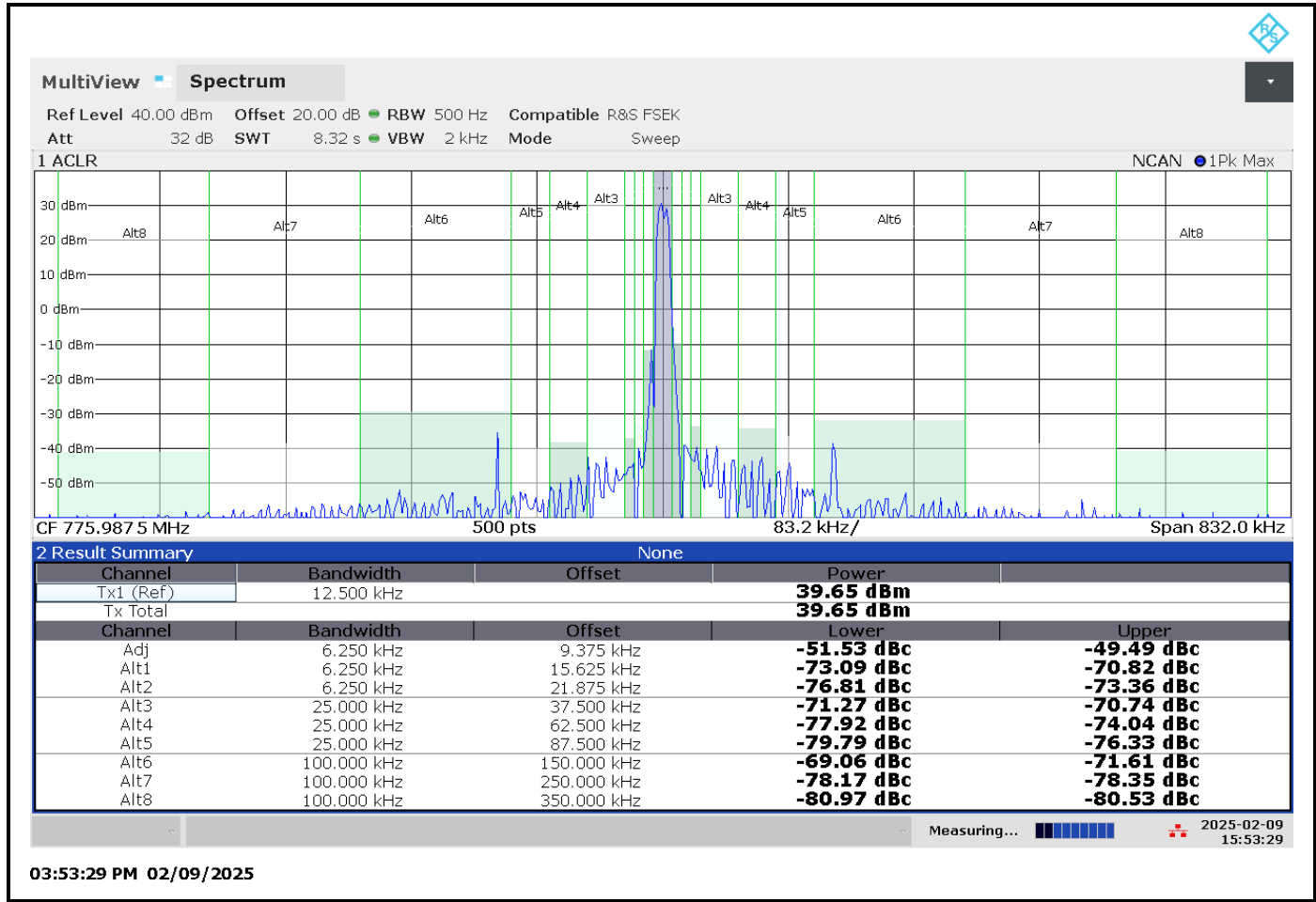


Table 6-46: Adjacent Channel Power - 775.9875 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.2
12 MHz to receive band	30(s)	-75	-92.0
In the receive band	30(s)	-100	-107.0

Plot 6-46: Adjacent Channel Power – 798.0125 MHz; H-CPM (TDMA) Mode; (9.375 kHz - 350 kHz)

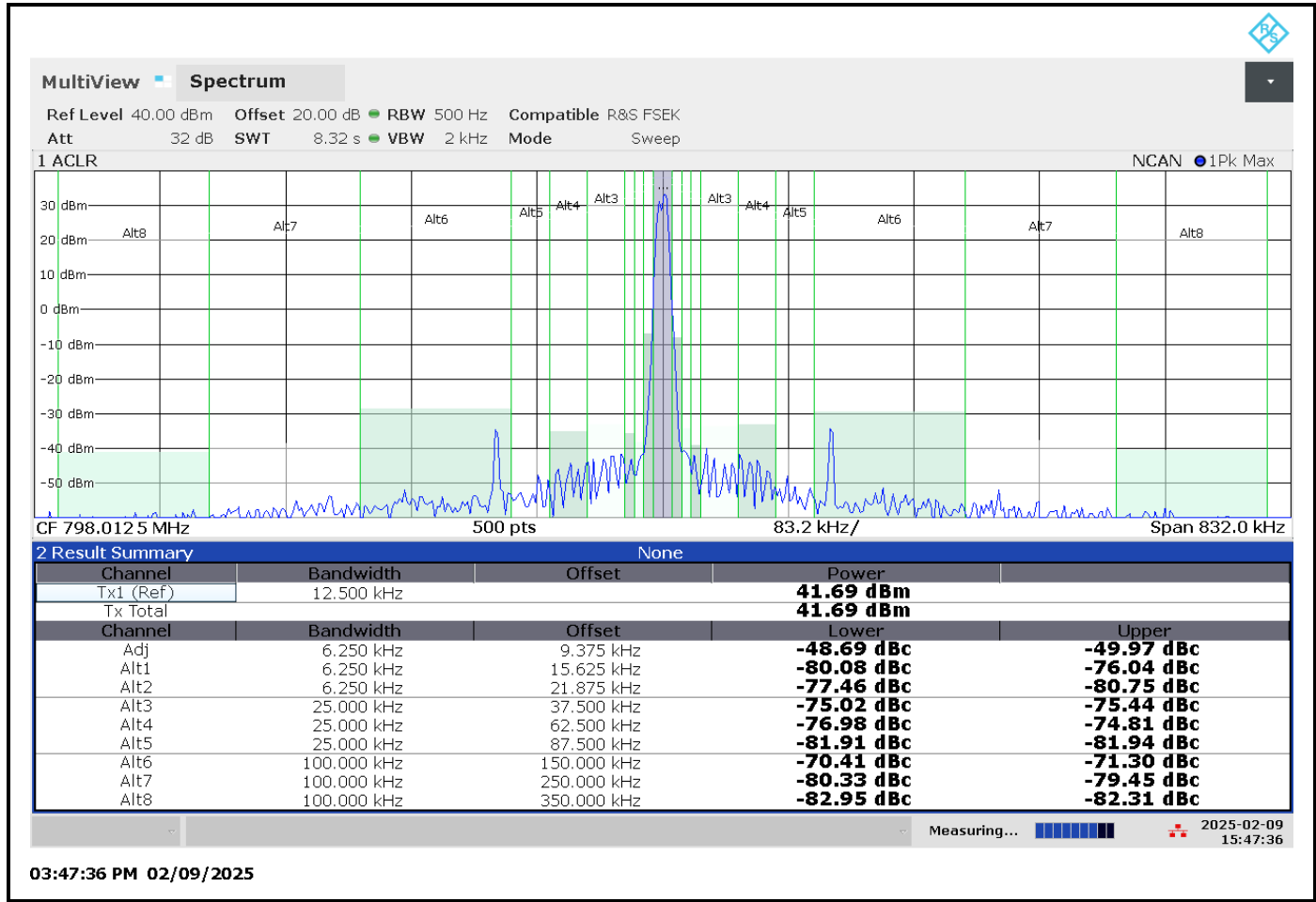


Table 6-47: Adjacent Channel Power – 798.0125 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.8
12 MHz to receive band	30(s)	-75	-92.0
In the receive band	30(s)	-100	-103.0

Plot 6-47: Adjacent Channel Power – 802.0000 MHz; H-CPM (TDMA) Mode; (9.375 kHz - 350 kHz)

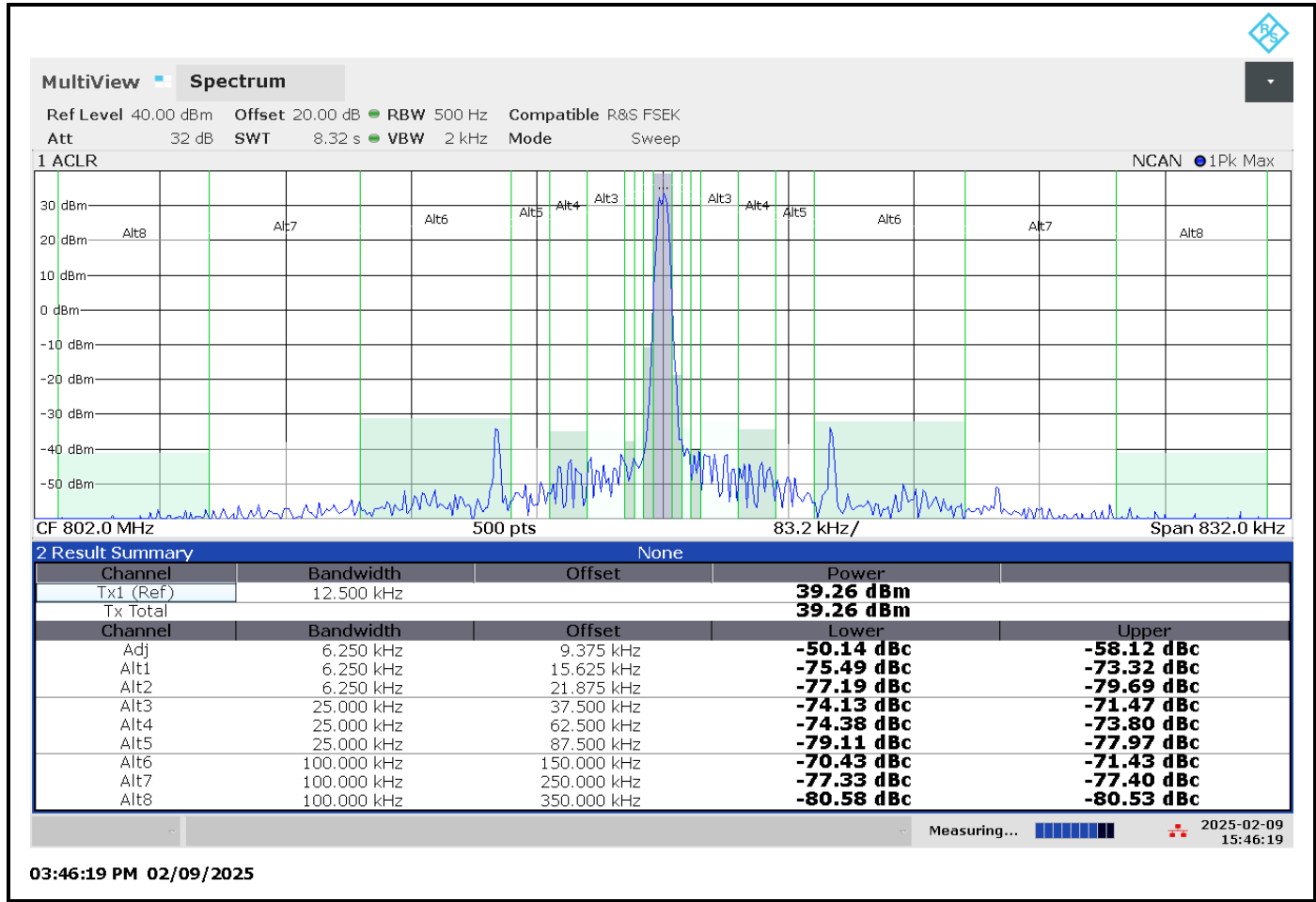


Table 6-48: Adjacent Channel Power – 802.0000 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.4
12 MHz to receive band	30(s)	-75	-92.0
In the receive band	30(s)	-100	-105.4

Plot 6-48: Adjacent Channel Power – 805.9875 MHz; H-CPM (TDMA) Mode; (9.375 kHz - 350 kHz)

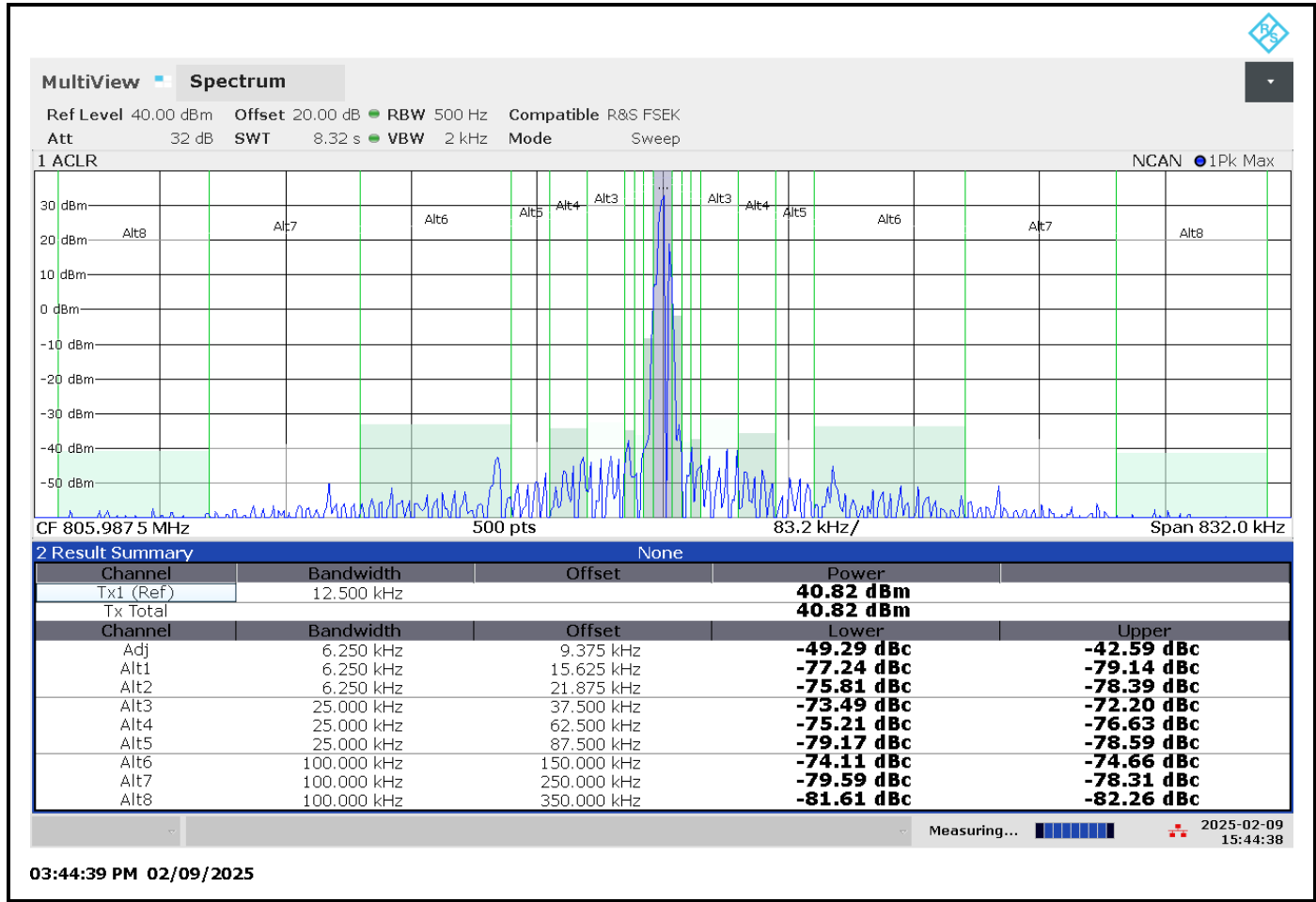


Table 6-49: Adjacent Channel Power – 805.9875 MHz; H-CPM (TDMA) Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.2
12 MHz to receive band	30(s)	-75	-92.4
In the receive band	30(s)	-100	-108.0

Plot 6-49: Adjacent Channel Power - 768.0125 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

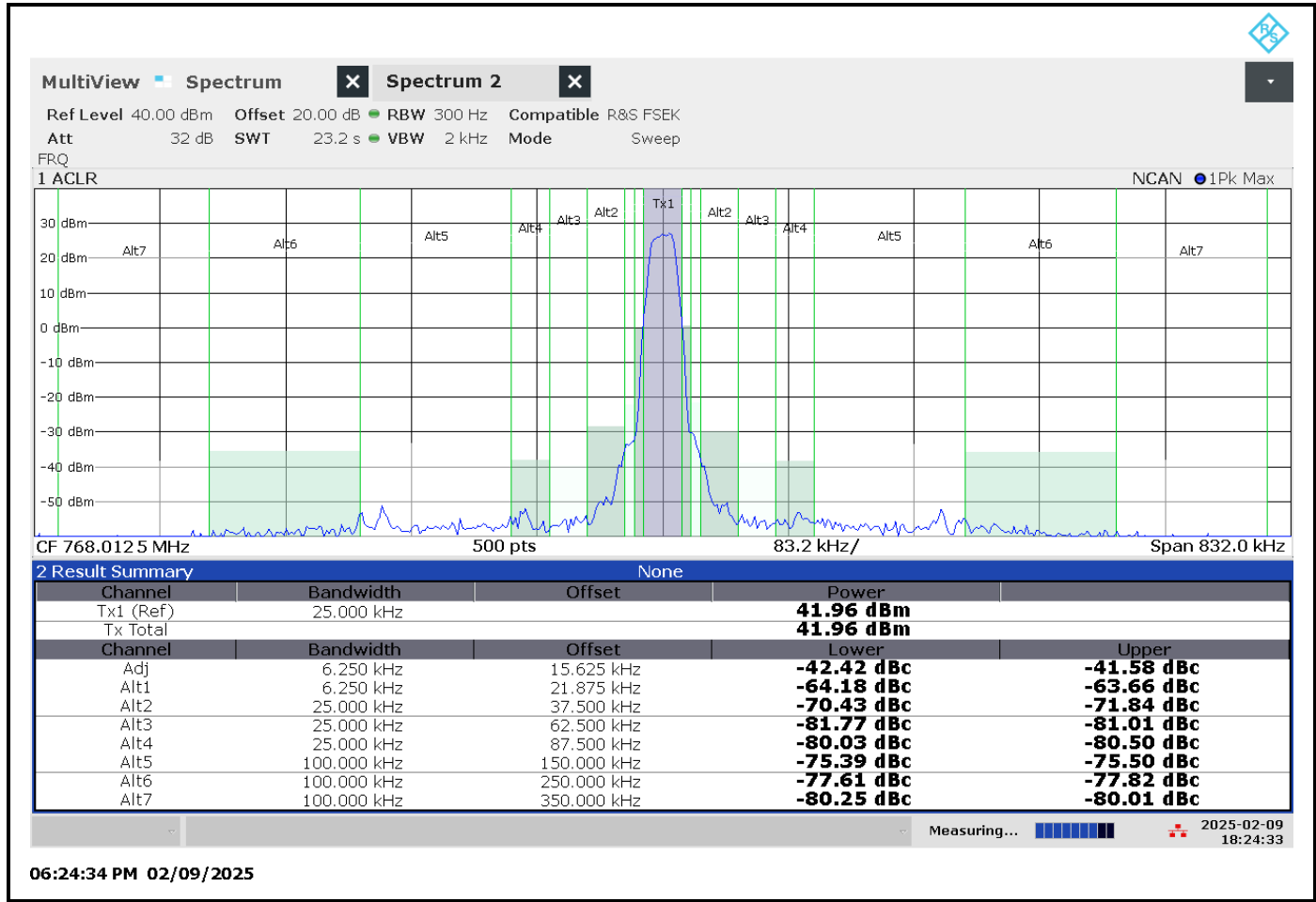


Table 6-50: Adjacent Channel Power - 768.0125 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.9
12 MHz to receive band	30(s)	-75	-96.4
In the receive band	30(s)	-100	-107.0

Plot 6-50: Adjacent Channel Power - 772.0000 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

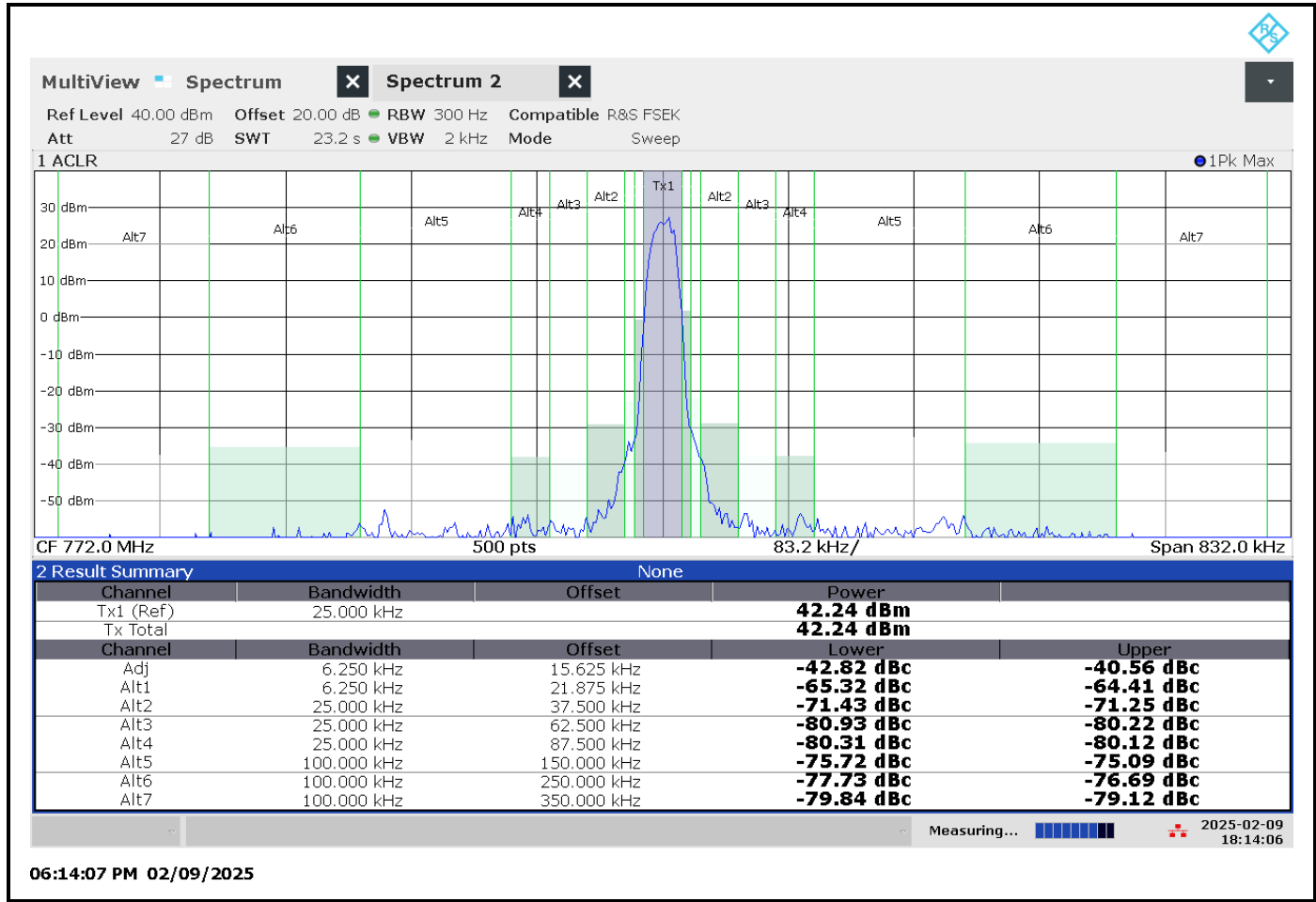


Table 6-51: Adjacent Channel Power - 772.0000 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.8
12 MHz to receive band	30(s)	-75	-96.6
In the receive band	30(s)	-100	-106.8

Plot 6-51: Adjacent Channel Power - 775.9875 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

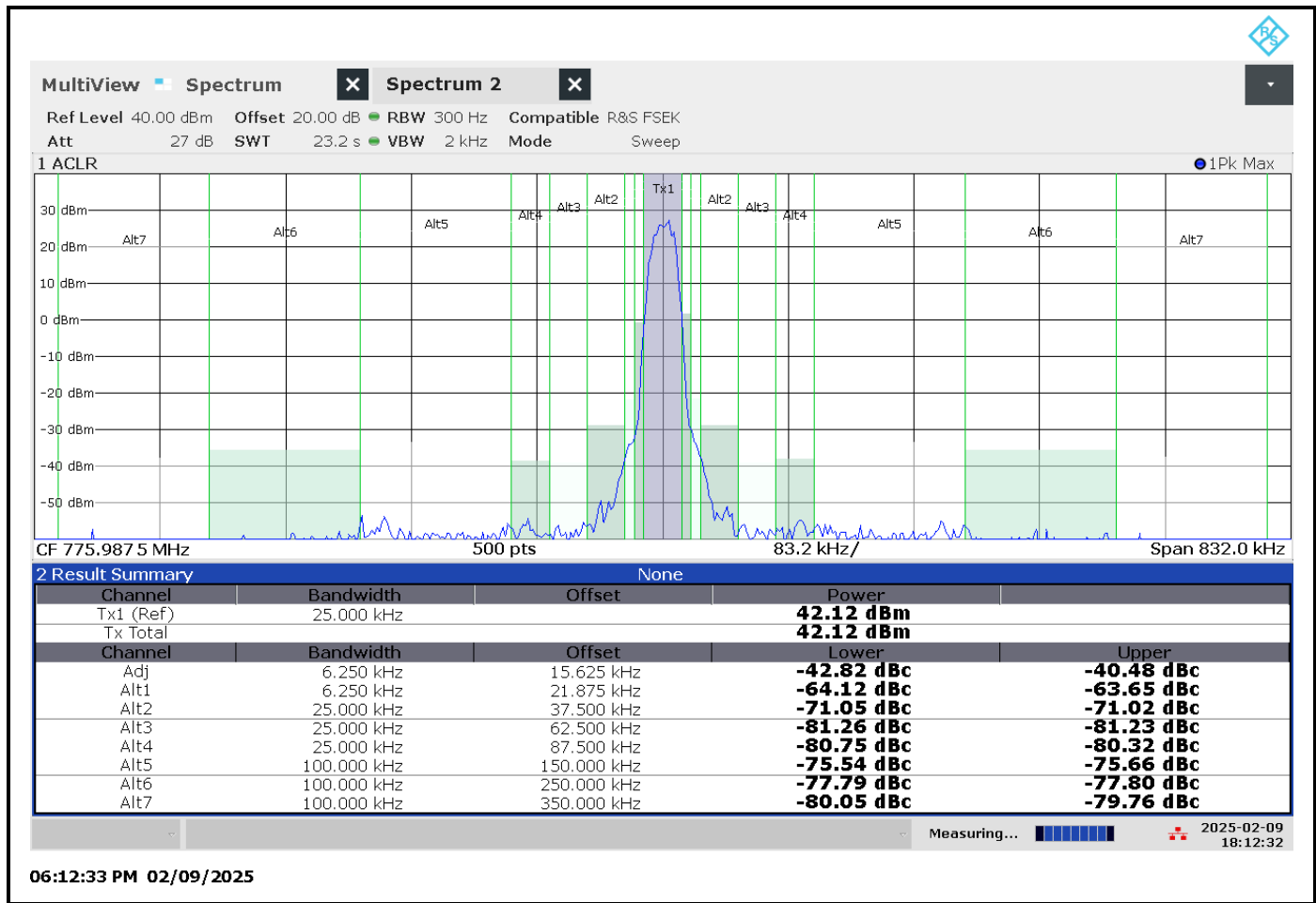


Table 6-52: Adjacent Channel Power - 775.9875 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.4
12 MHz to receive band	30(s)	-75	-96.3
In the receive band	30(s)	-100	-106.9

Plot 6-52: Adjacent Channel Power – 798.0125 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

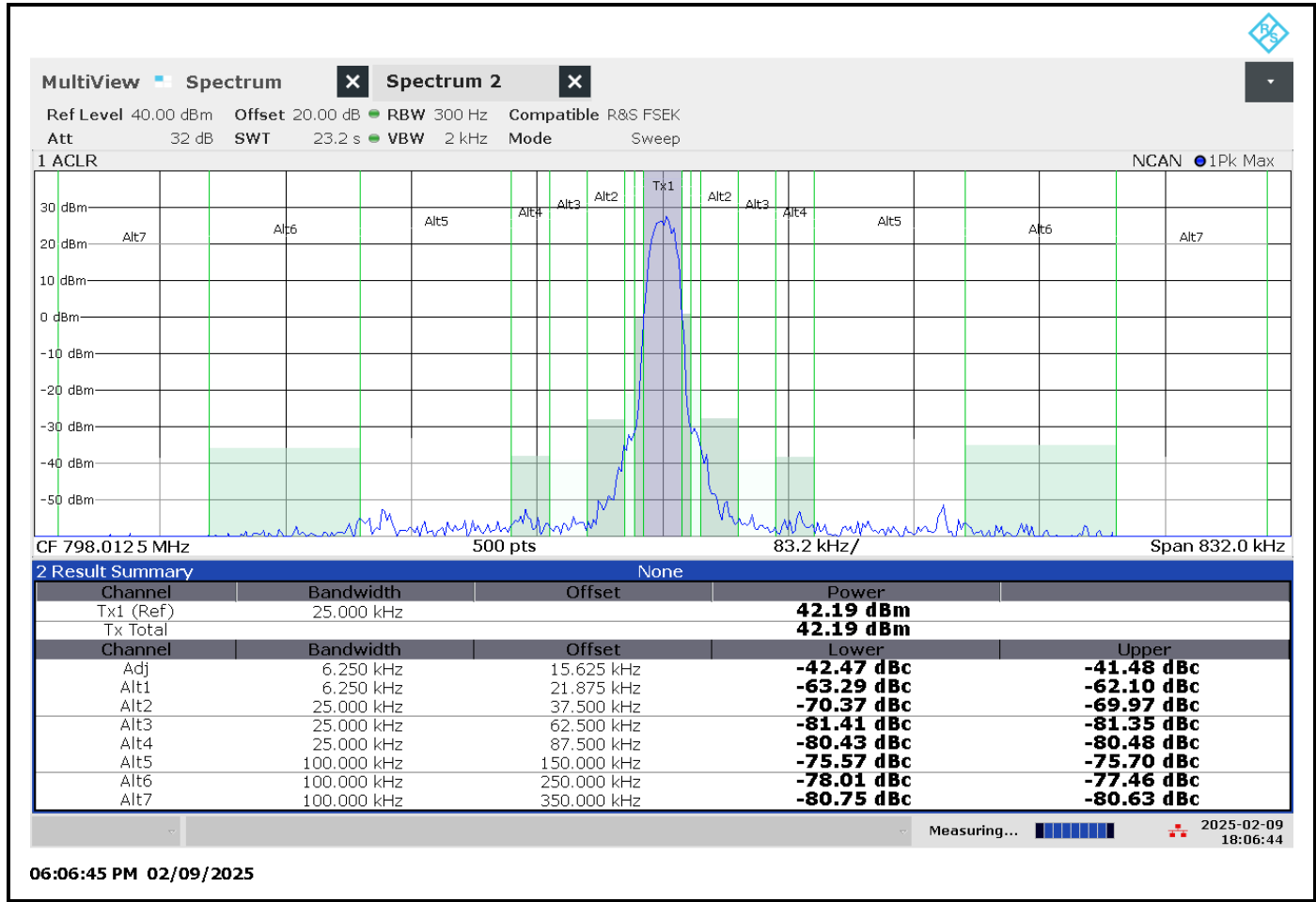


Table 6-53: Adjacent Channel Power – 798.0125 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.5
12 MHz to receive band	30(s)	-75	-100.4
In the receive band	30(s)	-100	-107.1

Plot 6-53: Adjacent Channel Power – 802.0000 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

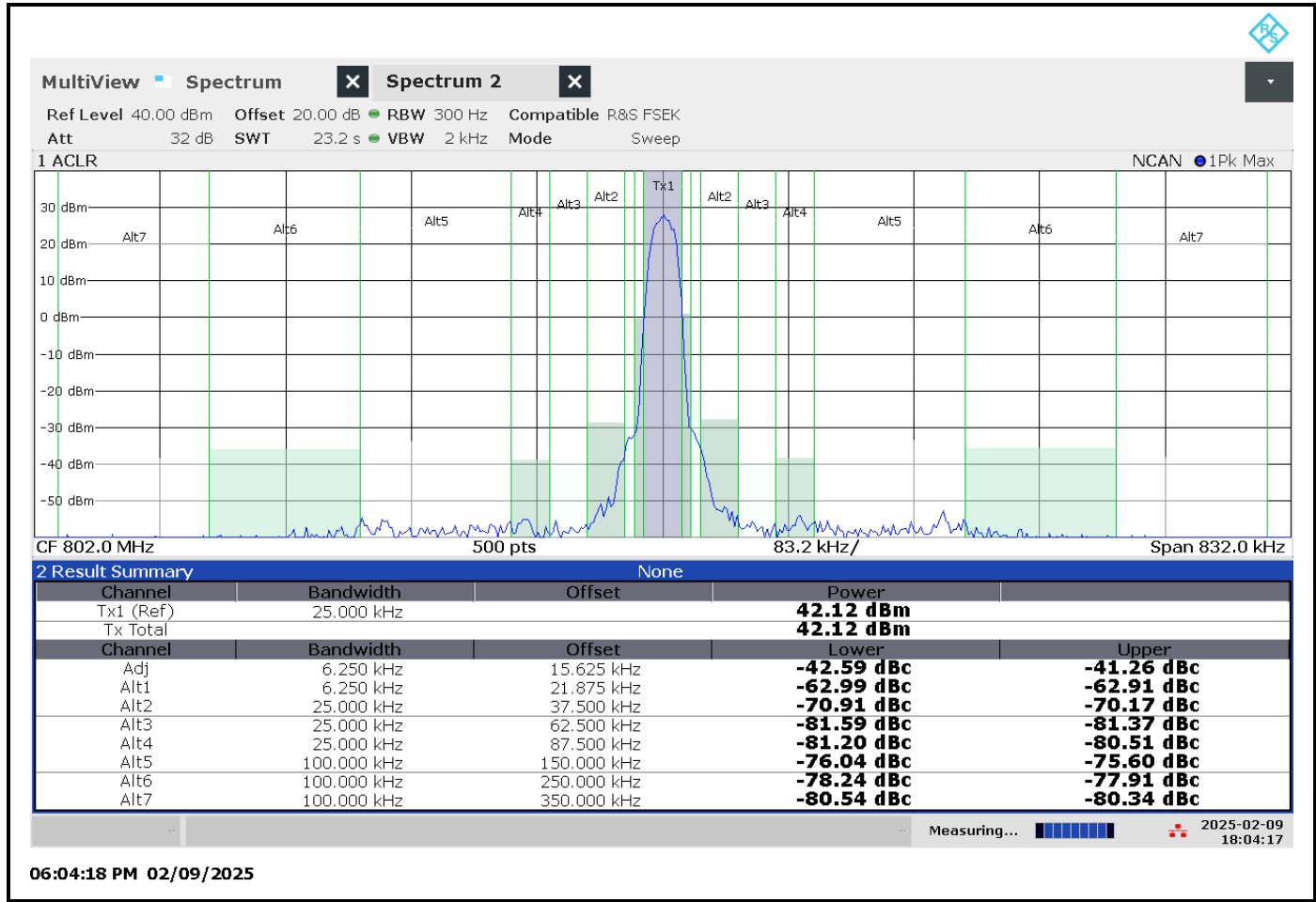


Table 6-54: Adjacent Channel Power – 802.0000 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-87.1
12 MHz to receive band	30(s)	-75	-98.0
In the receive band	30(s)	-100	-106.9

Plot 6-54: Adjacent Channel Power – 805.9875 MHz; WB HVD SMR Mode (9.375 kHz - 350 kHz)

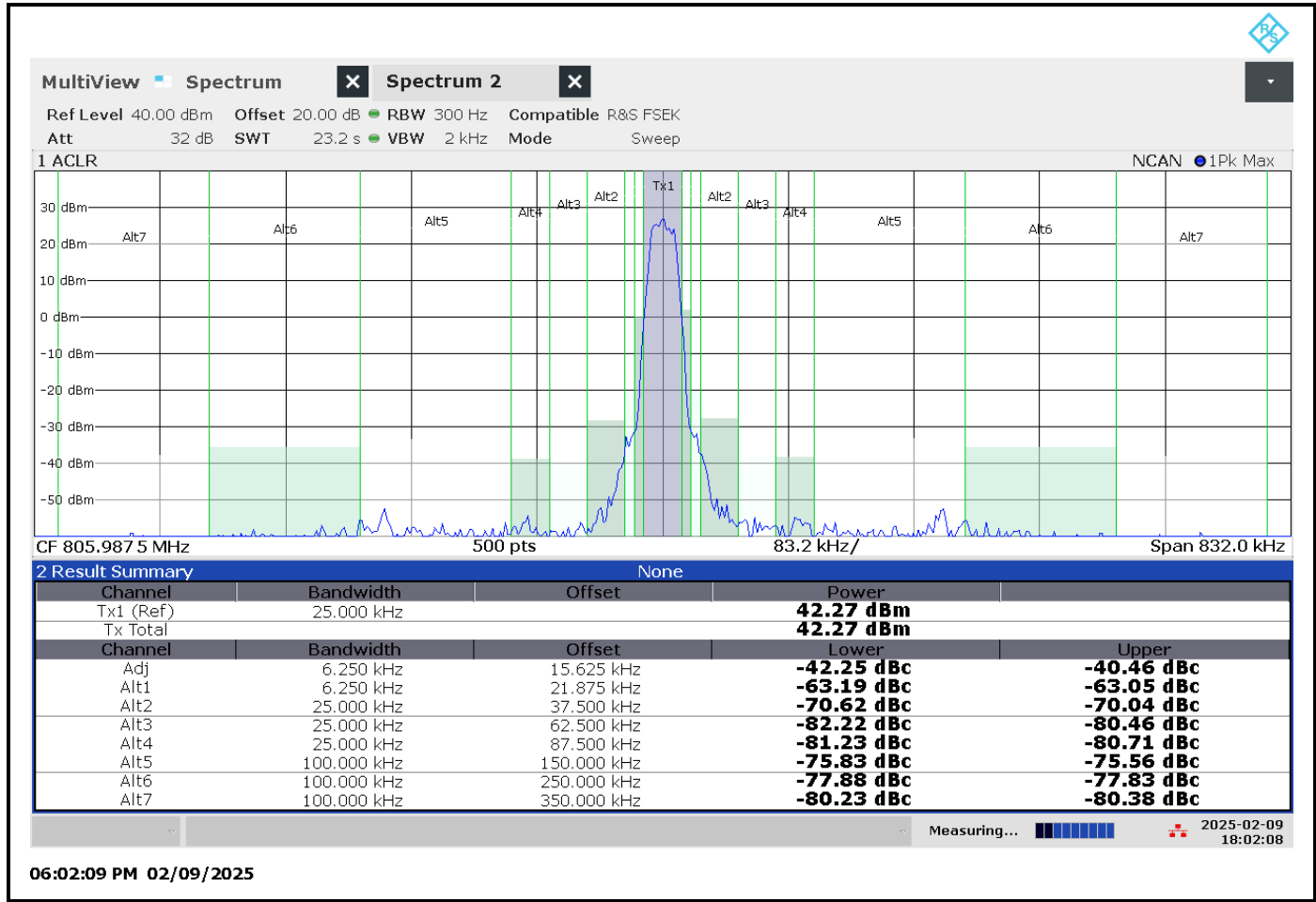


Table 6-55: Adjacent Channel Power – 805.9875 MHz; WB HVD SMR Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.8
12 MHz to receive band	30(s)	-75	-98.1
In the receive band	30(s)	-100	-107.5

Plot 6-55: Adjacent Channel Power - 768.0125 MHz; HVD-NPSPAC Mode (9.375 kHz - 350 kHz)

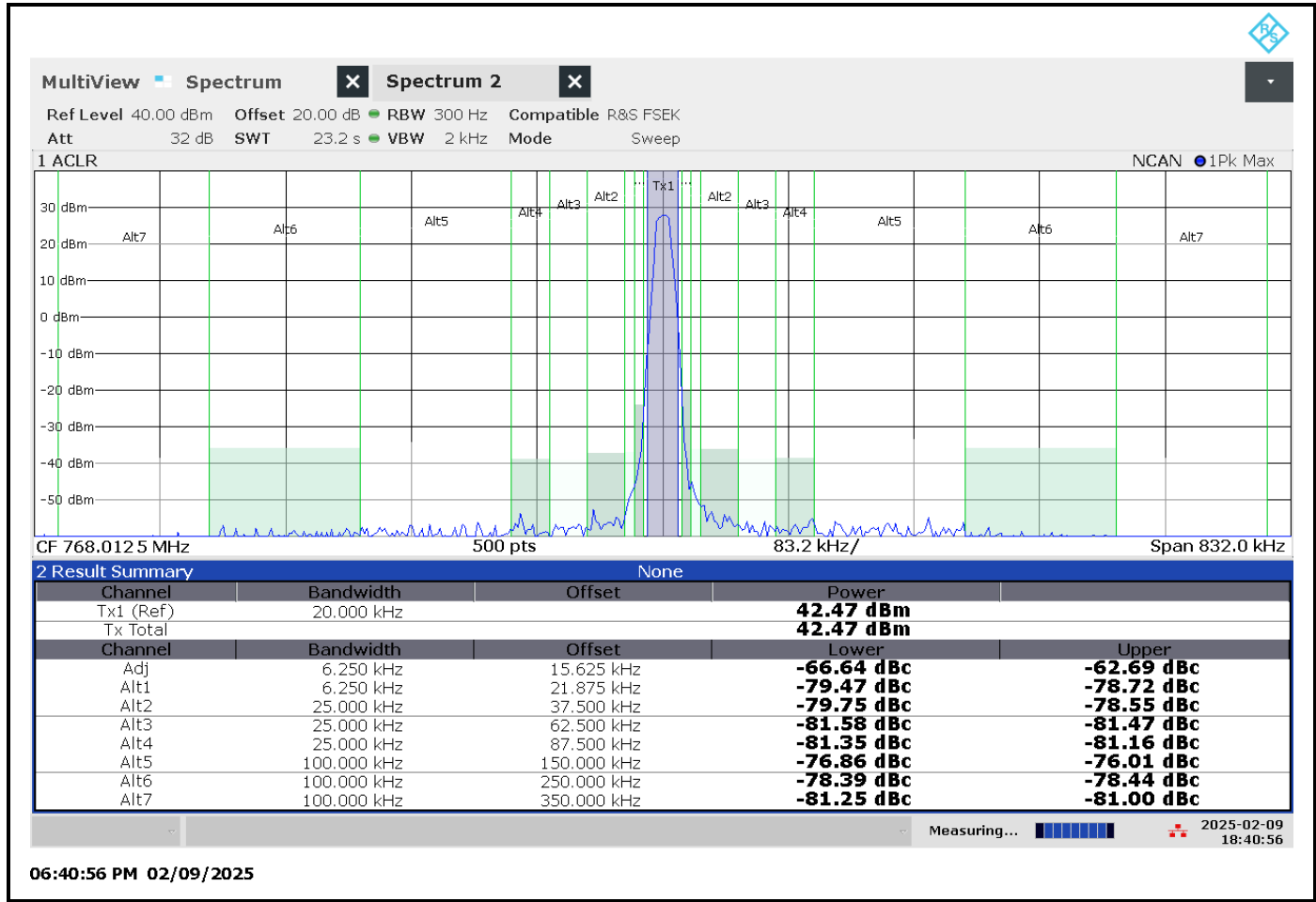


Table 6-56: Adjacent Channel Power - 768.0125 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.0
12 MHz to receive band	30(s)	-75	-104.6
In the receive band	30(s)	-100	-107.2

Plot 6-56: Adjacent Channel Power – 772.0000 MHz; HVD-NPSPAC Mode (9.375 kHz - 350 kHz)

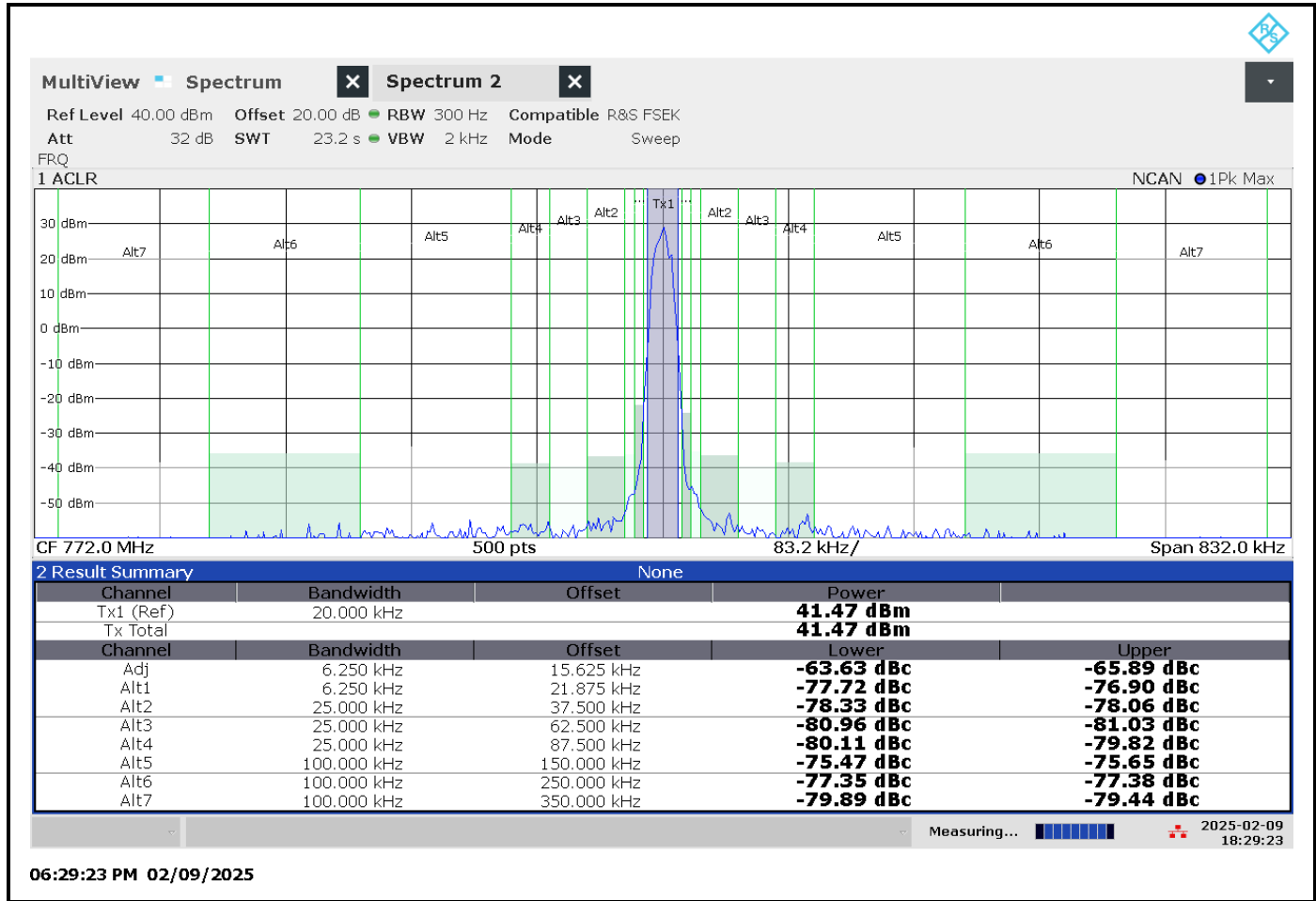


Table 6-57: Adjacent Channel Power – 772.0000 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-83.7
12 MHz to receive band	30(s)	-75	-103.7
In the receive band	30(s)	-100	-106.8

Plot 6-57: Adjacent Channel Power - 775.9875 MHz; HVD-NPSPAC Mode (9.375 kHz - 350 kHz)

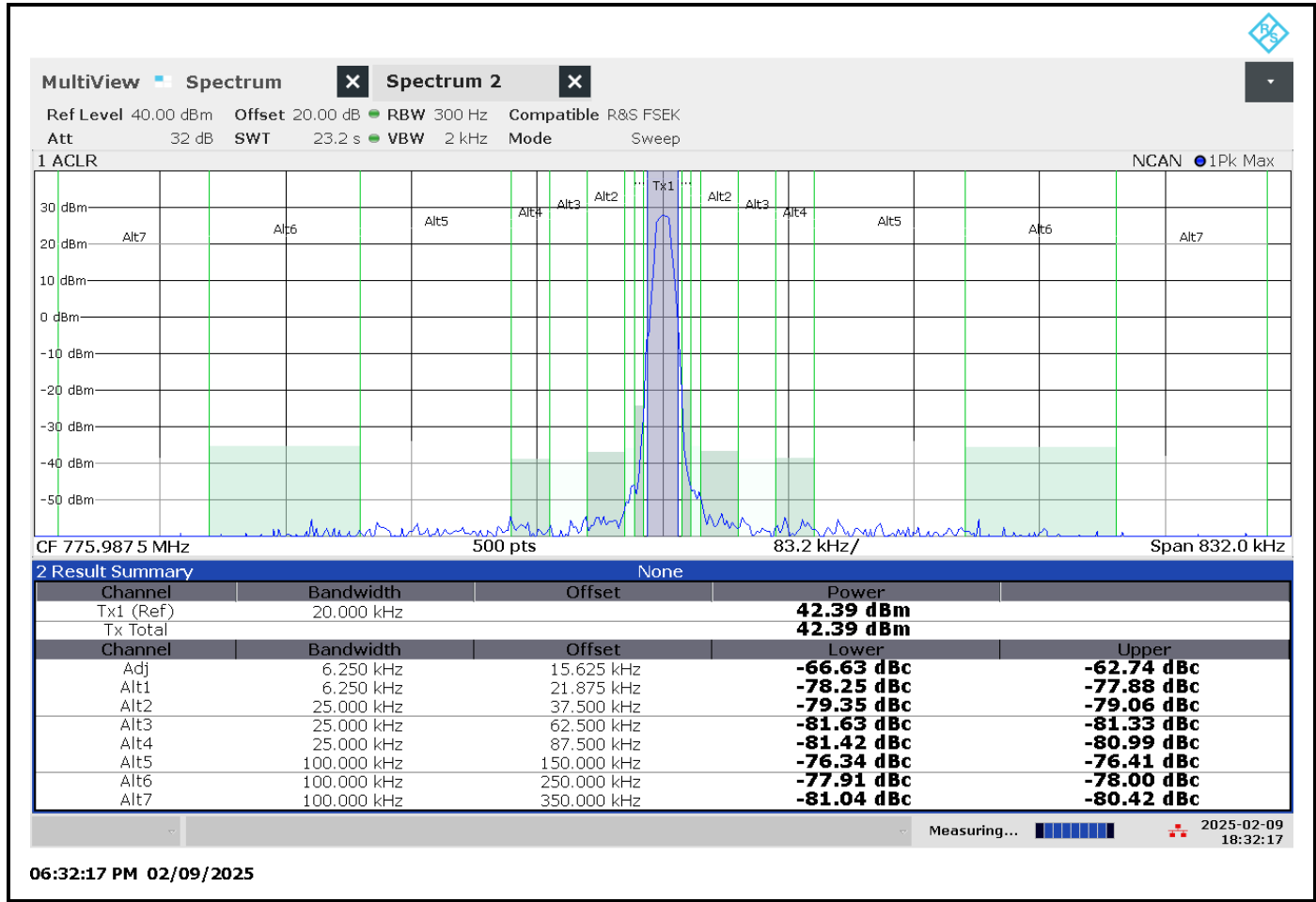


Table 6-58: Adjacent Channel Power - 775.9875 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.4
12 MHz to receive band	30(s)	-75	-101.5
In the receive band	30(s)	-100	-106.8

Plot 6-58: Adjacent Channel Power – 798.0125 MHz; HVD-NPSPAC Mode; (9.375 kHz - 350 kHz)

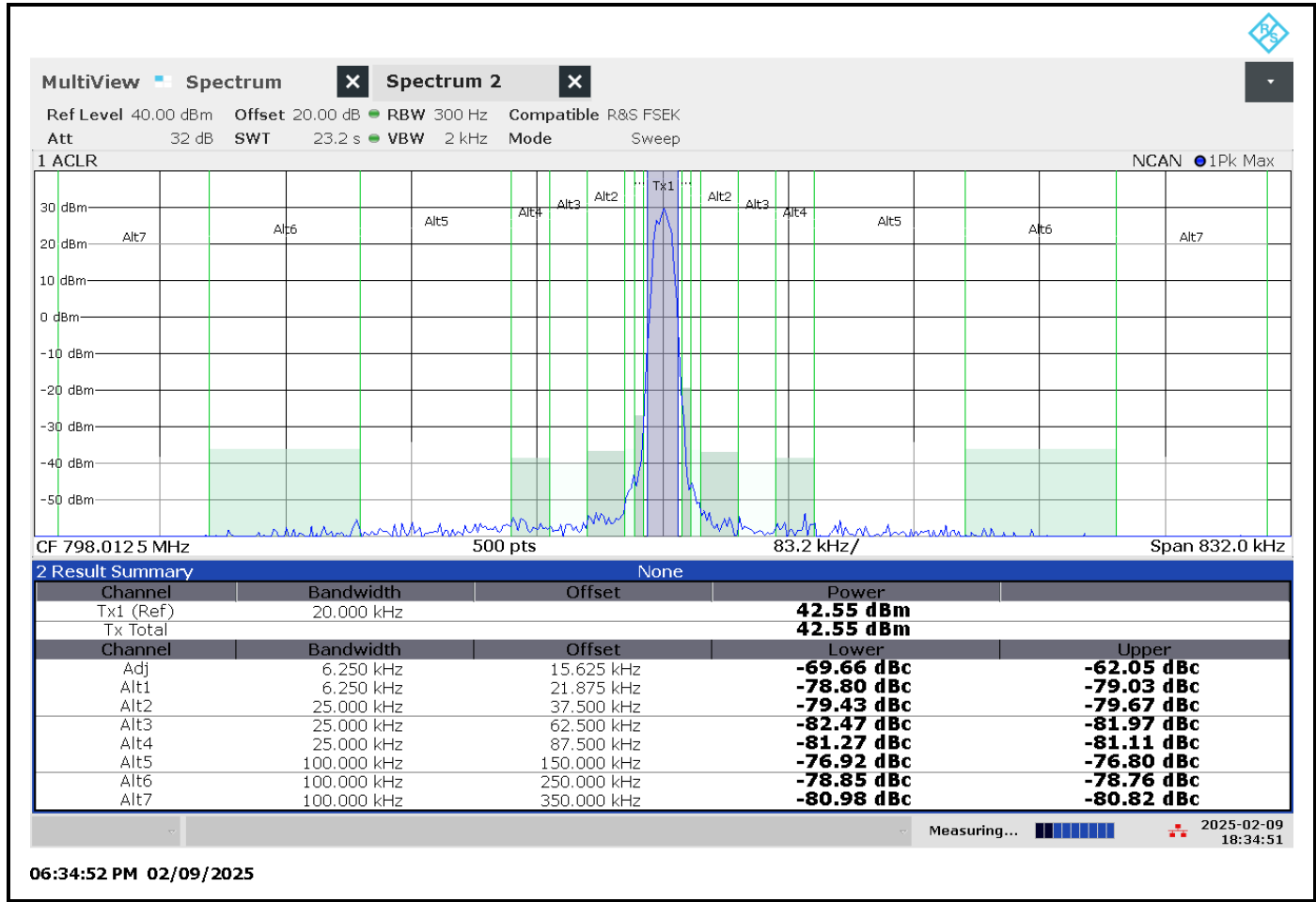


Table 6-59: Adjacent Channel Power – 798.0125 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.3
12 MHz to receive band	30(s)	-75	-102.9
In the receive band	30(s)	-100	-103.1

Plot 6-59: Adjacent Channel Power – 802.0000 MHz; HVD-NPSPAC Mode; (9.375 kHz - 350 kHz)

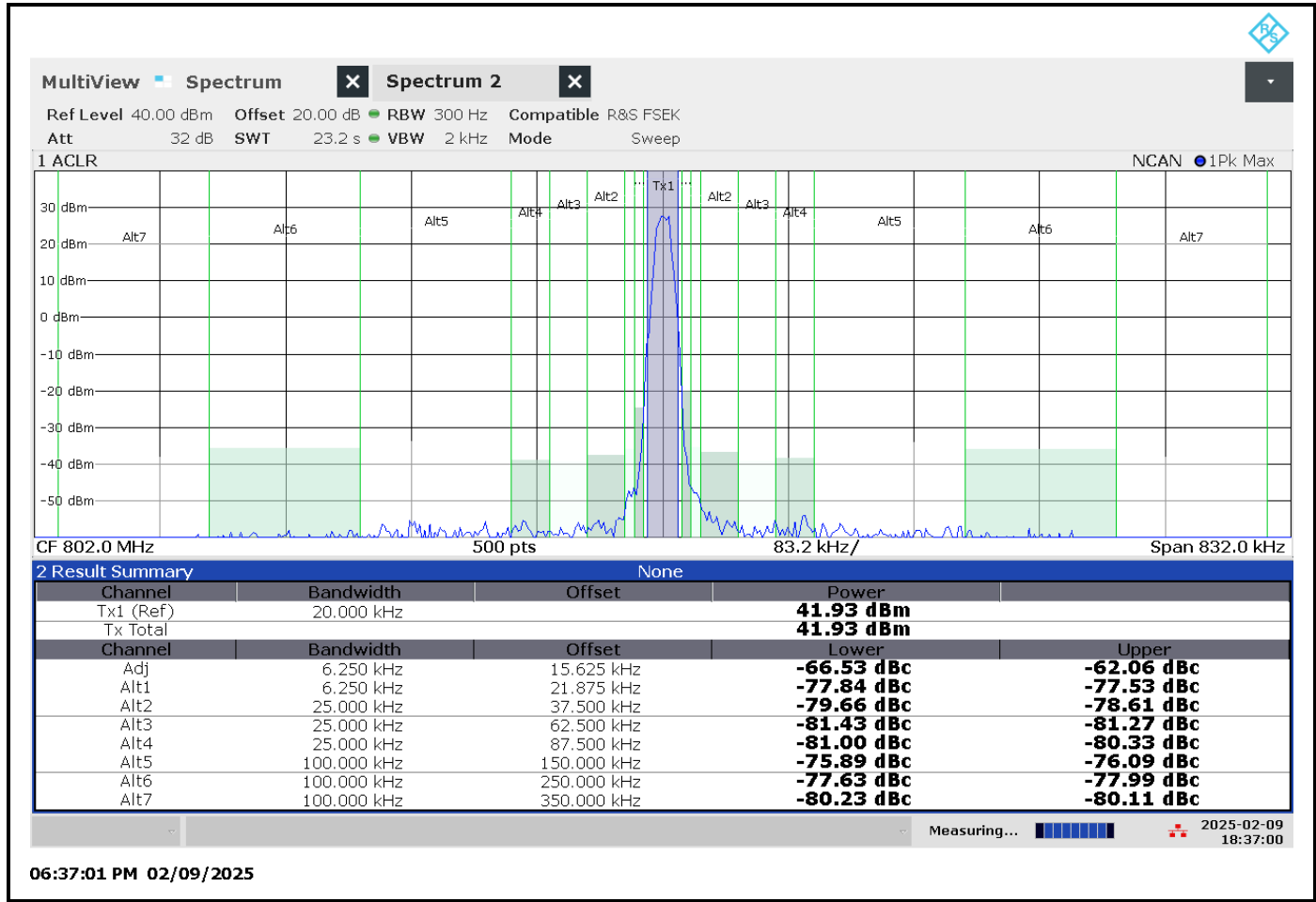


Table 6-60: Adjacent Channel Power – 802.0000 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-84.4
12 MHz to receive band	30(s)	-75	-100.4
In the receive band	30(s)	-100	-105.0

Plot 6-60: Adjacent Channel Power – 805.9875 MHz; HVD-NPSPAC Mode; (9.375 kHz - 350 kHz)

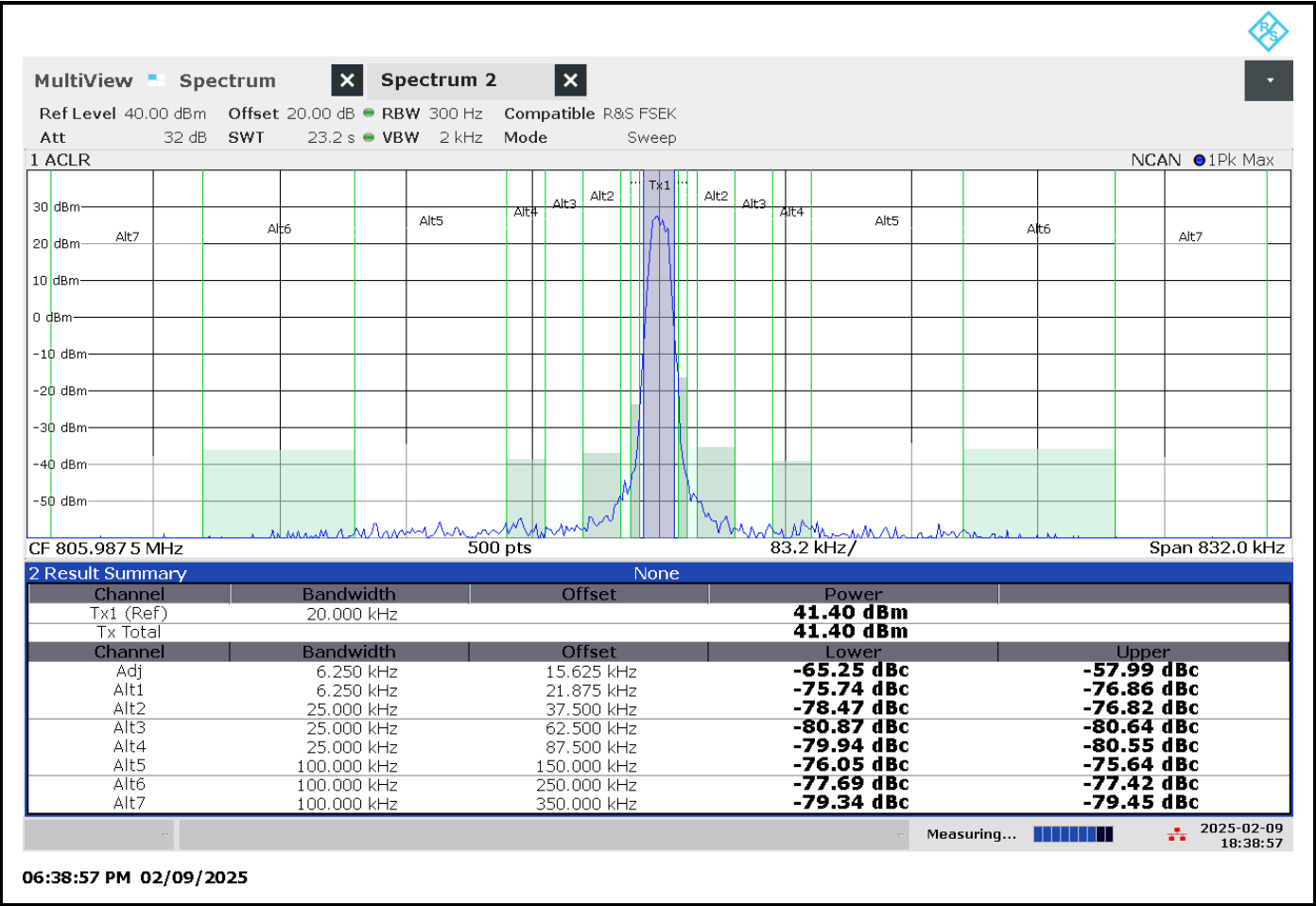


Table 6-61: Adjacent Channel Power – 805.9875 MHz; HVD-NPSPAC Mode (>400 kHz - RX Band)

Offset from Center Frequency (kHz)	Measurement BW (kHz)	Max ACP (dBc)	Measured ACP (dBc)
>400 to 12 MHz	30(s)	-75	-85.0
12 MHz to receive band	30(s)	-75	-99.6
In the receive band	30(s)	-100	-108.0

Measurement uncertainties shown for these tests are expanded uncertainties expressed at the 95% confidence level using a coverage factor K=2. Measurement uncertainty: ±0.5 dB

Results: Pass

Table 6-62: Test Equipment Used For Testing ACP Requirements

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027
901139	Weinschel Corp.	48-20-34 DC-18GHz	Attenuator, 100W 20dB	BK5859	10/14/2026
901724	API Weinschel, Inc.	48-40-34	40 dB 100W Attenuator	CJ8921	10/14/2026

Test Personnel:

Daniel W. Baltzell EMC Test Engineer	 Signature	February 9-11, 2025 Dates of Test
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7 FCC Part 90.210 and Part 2.1053(a): Field Strength of Spurious Emissions; Part 90.543: Out of Band Emissions Limit

7.1 Test Procedure

ANSI C63.26 section 5.5

The device uses digital modulation modulated to its maximum extent using a pseudo-random data sequence.

The spurious emissions levels were measured, and the device under test was replaced by a substitution antenna connected to a signal generator. This signal generator level was then corrected by subtracting the cable loss from the substitution antenna to the signal generator, and the gain of the antenna (dBi) was added to achieve the EIRP level, then converted from the corrected signal generator level (dBm) to dBc, or dBW for 700 MHz band, and compared to the limit.

For emissions in the 1559-1610 band, Part 90.543(f) states: "For operations in the 763–775 MHz and 793–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation." All modes were investigated, and radiated spurious and FCC Part 90.543(f) data, for which data is presented below.

Table 7-1: Environmental Conditions

Date	Temperature (°C)	Humidity (%)	Atmospheric Pressure (kPa)
02/17/2025	2.8	34	100.6
02/18/2025	-2.8	31	101.5
05/20/2025	22.5	34	101.4
05/21/2025	21.4	36	100.9

7.2 Test Data

Table 7-2: Field Strength of Spurious Radiation – 136.0125 MHz

Conducted Power 37.8 dBm; 6.0 W; Limit=50+10 Log P=57.8 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
272.0250	60.6	-23.0	0.2	-0.5	61.5	-3.7
408.0375	52.5	-22.1	0.3	-0.4	60.6	-2.8
544.0500	36.0	-38.5	0.3	-0.7	77.3	-19.5
680.0625	37.9	-36.6	0.3	-0.9	75.6	-17.8
816.0750	32.9	-38.5	0.4	-1.5	78.2	-20.4
952.0875	21.6	-47.3	0.4	-0.9	86.4	-28.6
1088.1000	21.9	-50.3	0.4	4.6	83.9	-26.1
1224.1125	26.6	-44.9	0.4	4.8	78.3	-20.5
1360.1250	11.7	-59.1	0.5	5.6	91.8	-34.0

Table 7-3: Field Strength of Spurious Radiation – 156.8000 MHz

Conducted Power 38.0 dBm; 6.3 W; Limit=50+10 Log P=58.0 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
313.6000	58.6	-23.2	0.2	-0.6	62.0	-4.0
470.4000	46.1	-29.0	0.3	-0.5	67.8	-9.8
627.2000	35.5	-36.5	0.3	-0.8	75.6	-17.6
784.0000	29.5	-42.5	0.4	-1.4	82.3	-24.3
940.8000	26.3	-42.8	0.4	-1.0	82.2	-24.2
1097.6000	21.5	-50.4	0.4	4.6	84.2	-26.2
1254.4000	15.4	-55.6	0.4	4.9	89.1	-31.1
1411.2000	15.5	-55.5	0.5	6.0	88.0	-30.0
1568.0000	15.4	-54.9	0.5	6.7	86.7	-28.7

Table 7-4: Field Strength of Spurious Radiation – 173.9875 MHz

Conducted Power 38.2 dBm; 6.6 W; Limit=50+10 Log P=58.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
347.9750	59.7	-22.3	0.2	-0.5	60.8	-2.6
521.9625	43.2	-33.7	0.3	-0.6	72.9	-14.6
695.9500	48.7	-21.3	0.3	-0.9	60.8	-2.6
869.9375	41.7	-27.9	0.4	-1.4	67.8	-9.6
1043.9250	25.2	-46.7	0.4	4.5	80.9	-22.6
1217.9125	26.0	-45.5	0.4	4.8	79.4	-21.1
1391.9000	24.5	-47.0	0.4	5.9	79.8	-21.6
1565.8875	24.4	-46.2	0.5	6.7	77.2	-20.0
1739.8750	25.5	-42.7	0.5	6.5	73.9	-16.7

Table 7-5: Field Strength of Spurious Radiation – 378.0125 MHz

Conducted Power 37.5 dBm; 5.7 W; Limit=50+10 Log P=57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
756.0250	52.0	-20.7	0.4	-1.3	59.9	-2.4
1134.0375	41.9	-29.9	0.4	4.7	63.1	-5.6
1512.0500	28.4	-42.1	0.5	6.5	73.6	-16.1
1890.0625	30.4	-35.8	0.6	6.3	67.6	-10.1
2268.0750	25.5	-52.3	0.6	7.2	83.2	-25.7
2646.0875	23.3	-54.2	0.7	7.6	84.8	-27.3
3024.1000	26.4	-50.6	0.6	7.3	81.4	-23.9
3402.1125	25.0	-51.2	0.6	7.6	81.7	-24.2
3780.1250	20.7	-54.1	0.7	7.0	85.3	-27.8

Table 7-6: Field Strength of Spurious Radiation – 392.0000 MHz

Conducted Power 37.5 dBm; 5.6 W; Limit=50+10 Log P=57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
784.0000	51.6	-20.4	0.4	-1.4	59.7	-2.2
1176.0000	22.5	-49.0	0.4	4.7	82.5	-25.0
1568.0000	4.8	-65.5	0.5	6.7	97.1	-39.6
1960.0000	-7.7	-74.0	0.5	6.6	105.7	-48.2
2352.0000	12.9	-64.8	0.5	7.3	95.8	-38.3
2744.0000	7.6	-70.1	0.6	7.8	100.7	-43.2
3136.0000	2.1	-73.9	0.7	7.1	105.3	-47.8
3528.0000	3.8	-72.0	0.7	7.6	102.9	-45.4
3920.0000	4.8	-69.6	0.7	7.1	101	-43.5

Table 7-7: Field Strength of Spurious Radiation – 405.9875 MHz

Conducted Power 37.5 dBm; 5.6 W; Limit=50+10 Log P=57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
811.9750	48.2	-23.3	0.4	-1.5	62.7	-5.2
1217.9625	37.6	-33.9	0.4	4.8	67	-9.5
1623.9500	18.1	-52.0	0.5	6.7	83.3	-25.8
2029.9375	20.2	-57.7	0.6	6.7	89.1	-31.6
2435.9250	36.5	-41.3	0.6	7.3	72.1	-14.6
2841.9125	19.5	-57.7	0.6	7.8	88	-30.5
3247.9000	15.8	-59.9	0.7	7.1	91	-33.5
3653.8875	16.0	-59.7	0.7	7.4	90.5	-33.0
4059.8750	14.9	-54.9	0.7	7.8	85.3	-27.8

Table 7-8: Field Strength of Spurious Radiation – 406.1125 MHz

Conducted Power 37.5 dBm; 5.6 W; Limit=50+10 Log P=57.5 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
812.2250	27.0	-42.6	0.4	-1.5	82.0	-24.5
1218.3375	20.6	-50.9	0.4	4.8	84.0	-26.5
1624.4500	17.5	-52.3	0.5	6.7	83.6	-26.1
2030.5625	19.1	-58.7	0.6	6.7	90.1	-32.6
2436.6750	40.3	-37.5	0.6	7.3	68.3	-10.8
2842.7875	19.8	-57.4	0.6	7.8	87.7	-30.2
3248.9000	15.9	-59.9	0.7	7.1	91.0	-33.5
3655.0125	16.4	-59.3	0.7	7.4	90.1	-32.6
4061.1250	15.0	-54.8	0.7	7.8	85.2	-27.7

Table 7-9: Field Strength of Spurious Radiation – 464.0000 MHz

Conducted Power 37.4 dBm; 5.4 W; Limit=50+10 Log P=57.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
928.0000	48.0	-21.2	0.4	-1.1	59.3	-1.9
1392.0000	26.2	-44.7	0.4	5.9	76.6	-19.2
1856.0000	16.9	-50.0	0.5	6.4	81.5	-24.1
2320.0000	21.9	-56.0	0.5	7.3	86.6	-29.2
2784.0000	10.3	-67.3	0.6	7.9	97.4	-40.0
3248.0000	10.1	-65.7	0.7	7.1	96.7	-39.3
3712.0000	9.9	-65.2	0.7	7.2	96.1	-38.7
4176.0000	2.9	-66.9	0.7	8.4	96.6	-39.2
4640.0000	4.3	-66.8	0.8	8.9	96.1	-38.7

Table 7-10: Field Strength of Spurious Radiation – 521.9875 MHz

Conducted Power 37.0 dBm; 5.0 W; Limit=50+10 Log P=57.0 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1043.9570	33.8	-38.1	0.4	4.5	71	-14.0
1565.9355	16.3	-54.0	0.5	6.7	84.8	-27.8
2087.9140	17.7	-59.9	0.6	6.4	91.1	-34.1
2609.8925	36.1	-41.3	0.6	7.5	71.4	-14.4
3131.8710	15.9	-60.2	0.7	7.1	90.8	-33.8
3653.8495	17.3	-58.5	0.7	7.4	88.8	-31.8
4175.8280	14.9	-55.0	0.7	8.4	84.3	-27.3
4697.8065	14.9	-55.8	0.8	9.0	84.6	-27.6
5219.7850	14.4	-55.4	0.9	8.6	84.7	-27.7

Table 7-11: Field Strength of Spurious Radiation – 768.0125 MHz

Conducted Power 34.3 dBm; 2.7 W; Limit=50+10 Log P=54.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1536.0250	20.7	-49.8	0.5	6.5	78.1	-23.8
2304.0375	18.4	-59.5	0.5	7.3	87	-32.7
3072.0500	16.6	-59.7	0.7	7.2	87.5	-33.2
3840.0625	24.0	-50.5	0.7	7.0	78.5	-24.2
4608.0750	15.2	-55.9	0.8	8.9	82.1	-27.8
5376.0875	15.5	-54.3	0.9	8.5	81	-26.7
6144.1000	14.3	-55.1	1.0	9.2	81.2	-26.9
6912.1125	14.2	-54.4	1.1	9.5	80.3	-26.0
7680.1250	14.5	-53.1	1.1	9.2	79.3	-25.0

Table 7-12: Field Strength of Spurious Radiation – 772.0000 MHz

Conducted Power 34.4 dBm; 2.7 W; Limit=50+10 Log P=54.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1544.0000	15.8	-54.7	0.5	6.6	83	-28.6
2316.0000	18.4	-59.5	0.5	7.3	87.1	-32.7
3088.0000	8.4	-67.7	0.7	7.1	95.7	-41.3
3860.0000	17.4	-57.4	0.7	7.0	85.5	-31.1
4632.0000	16.1	-55.0	0.8	8.9	81.3	-26.9
5404.0000	3.5	-66.2	0.9	8.5	93	-38.6
6176.0000	6.3	-63.0	1.0	9.1	89.3	-34.9
6948.0000	2.6	-66.1	1.1	9.5	92.1	-37.7
7720.0000	1.9	-65.8	1.1	9.3	92	-37.6

Table 7-13: Field Strength of Spurious Radiation – 775.9875 MHz

Conducted Power 34.4 dBm; 2.8 W; Limit=50+10 Log P=54.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1551.9750	25.5	-45.0	0.5	6.6	73.3	-18.9
2327.9625	18.5	-59.3	0.5	7.3	86.9	-32.5
3103.9500	16.3	-59.8	0.7	7.1	87.8	-33.4
3879.9375	21.5	-53.2	0.7	7.0	81.3	-26.9
4655.9250	17.0	-54.0	0.8	8.9	80.3	-25.9
5431.9125	14.6	-55.2	0.9	8.5	82	-27.6
6207.9000	14.4	-54.8	1.0	9.1	81.1	-26.7
6983.8875	14.1	-54.5	1.1	9.5	80.5	-26.1
7759.8750	14.7	-53.0	1.1	9.3	79.2	-24.8

Table 7-14: Field Strength of Spurious Radiation – 798.0125 MHz

Conducted Power 34.6 dBm; 2.9 W; Limit=50+10 Log P=54.6 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1596.0250	21.4	-49.1	0.5	6.8	77.4	-22.8
2394.0375	18.7	-59.3	0.6	7.3	87.2	-32.6
3192.0500	17.0	-58.7	0.7	7.0	87	-32.4
3990.0625	17.0	-57.6	0.7	7.5	85.4	-30.8
4788.0750	15.2	-55.4	0.8	8.9	81.9	-27.3
5586.0875	15.0	-54.8	1.0	8.7	81.7	-27.1
6384.1000	14.0	-55.3	1.0	9.5	81.4	-26.8
7182.1125	13.1	-55.1	1.1	9.2	81.6	-27.0
7980.1250	15.8	-51.3	1.1	9.2	77.8	-23.2

Table 7-15: Field Strength of Spurious Radiation – 802.0000 MHz

Conducted Power 34.9 dBm; 3.1 W; Limit=50+10 Log P=54.9 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1604.0000	17.5	-52.9	0.5	6.8	81.5	-26.6
2406.0000	18.5	-59.5	0.6	7.3	87.7	-32.8
3208.0000	7.8	-67.8	0.7	7.0	96.4	-41.5
4010.0000	6.1	-63.6	0.7	7.6	91.6	-36.7
4812.0000	10.2	-60.5	0.8	8.9	87.3	-32.4
5614.0000	3.5	-66.2	1.0	8.8	93.3	-38.4
6416.0000	2.7	-66.6	1.0	9.6	92.9	-38.0
7218.0000	2.8	-65.0	1.1	9.1	91.9	-37.0
8020.0000	1.9	-65.1	1.2	9.2	92	-37.1

Table 7-16: Field Strength of Spurious Radiation – 805.9875 MHz

Conducted Power 35.2 dBm; 3.3 W; Limit=50+10 Log P=55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1611.9750	20.6	-49.7	0.5	6.7	78.7	-23.5
2417.9625	41.2	-36.7	0.6	7.3	65.2	-10.0
3223.9500	16.5	-59.0	0.7	7.1	87.8	-32.6
4029.9375	14.7	-55.0	0.7	7.7	83.2	-28.0
4835.9250	15.5	-55.3	0.8	8.9	82.4	-27.2
5641.9125	15.7	-53.9	1.0	8.8	81.3	-26.1
6447.9000	14.4	-54.9	1.0	9.7	81.4	-26.2
7253.8875	12.7	-55.0	1.1	8.9	82.4	-27.2
8059.8750	15.3	-51.7	1.2	9.2	78.9	-23.7

Table 7-17: Field Strength of Spurious Radiation – 806.0125 MHz

Conducted Power 35.2 dBm; 3.3 W; Limit=50+10 Log P=55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1612.0250	20.0	-50.1	0.5	6.7	79.1	-23.9
2418.0375	18.5	-59.4	0.6	7.3	87.9	-32.7
3224.0500	16.3	-59.2	0.7	7.1	88	-32.8
4030.0625	14.7	-55.0	0.7	7.7	83.2	-28
4836.0750	15.8	-54.8	0.8	8.9	81.9	-26.7
5642.0875	14.8	-54.8	1.0	8.8	82.2	-27.0
6448.1000	14.4	-55.0	1.0	9.7	81.5	-26.3
7254.1125	12.9	-54.9	1.1	8.9	82.3	-27.1
8060.1250	15.0	-52.0	1.2	9.2	79.2	-24.0

Table 7-18: Field Strength of Spurious Radiation – 815.0000 MHz

Conducted Power 35.2 dBm; 3.3 W; Limit=50+10 Log P=55.2 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1630.0000	21.3	-48.4	0.5	6.7	77.4	-22.2
2445.0000	23.0	-54.8	0.6	7.3	83.3	-28.1
3260.0000	11.9	-64.0	0.7	7.1	92.8	-37.6
4075.0000	6.6	-63.2	0.7	7.9	91.2	-36.0
4890.0000	9.4	-60.7	0.9	8.8	88	-32.8
5705.0000	3.6	-66.2	1.0	9.0	93.4	-38.2
6520.0000	3.1	-66.5	1.0	9.7	93	-37.8
7335.0000	3.0	-64.5	1.1	8.7	92.1	-36.9
8150.0000	2.0	-64.8	1.2	9.3	91.9	-36.7

Table 7-19: Field Strength of Spurious Radiation – 823.9875 MHz

Conducted Power 35.1 dBm; 3.3 W; Limit=50+10 Log P=55.1 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1647.9750	23.0	-46.5	0.5	6.6	75.5	-20.4
2471.9625	19.1	-58.6	0.6	7.4	86.9	-31.8
3295.9500	16.3	-59.7	0.7	7.1	88.4	-33.3
4119.9375	15.0	-54.8	0.8	8.1	82.6	-27.5
4943.9250	17.5	-52.7	0.9	8.8	79.9	-24.8
5767.9125	15.1	-54.5	1.0	9.3	81.3	-26.2
6591.9000	14.4	-54.9	1.0	9.7	81.3	-26.2
7415.8875	13.4	-53.8	1.1	8.7	81.3	-26.2
8239.8750	15.8	-46.9	1.2	9.3	73.9	-18.8

Table 7-20: Field Strength of Spurious Radiation – 851.0125 MHz

Conducted Power 35.3 dBm; 3.4 W; Limit=50+10 Log P=55.3 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1702.0250	21.4	-46.6	0.5	6.4	76	-20.7
2553.0375	29.2	-48.1	0.6	7.4	76.6	-21.3
3404.0500	16.8	-59.2	0.6	7.6	87.5	-32.2
4255.0625	16.3	-54.0	0.8	8.6	81.5	-26.2
5106.0750	19.3	-50.6	0.9	8.7	78.1	-22.8
5957.0875	15.2	-54.6	1.0	9.6	81.3	-26.0
6808.1000	14.5	-54.1	1.1	9.5	81	-25.7
7659.1125	14.4	-53.2	1.1	9.2	80.4	-25.1
8510.1250	15.2	-47.5	1.2	9.4	74.6	-19.3

Table 7-21: Field Strength of Spurious Radiation – 860.0000 MHz

Conducted Power 35.4 dBm; 3.5 W; Limit=50+10 Log P=55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1720.0000	13.2	-54.8	0.5	6.4	84.3	-29
2580.0000	23.0	-54.2	0.6	7.4	82.8	-27.5
3440.0000	18.8	-57.1	0.7	7.6	85.6	-30.3
4300.0000	11.1	-59.2	0.8	8.7	86.7	-31.4
5160.0000	4.0	-65.3	0.9	8.6	93	-37.7
6020.0000	16.0	-53.6	1.0	9.4	80.6	-25.3
6880.0000	2.8	-65.9	1.1	9.5	92.9	-37.6
7740.0000	1.8	-65.9	1.1	9.3	93.1	-37.8
8600.0000	1.6	-60.8	1.2	9.6	87.8	-32.5

Table 7-22: Field Strength of Spurious Radiation – 868.9875 MHz

Conducted Power 35.4 dBm; 3.4 W; Limit=50+10 Log P=55.4 dBc

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBc)	Margin (dB)
1737.9750	23.7	-44.4	0.5	6.5	73.8	-18.5
2606.9625	11.3	-66.0	0.6	7.4	94.6	-39.3
3475.9500	16.5	-59.2	0.7	7.6	87.7	-32.4
4344.9375	16.8	-53.8	0.8	8.8	81.2	-25.9
5213.9250	16.2	-53.9	0.9	8.6	81.6	-26.3
6082.9125	13.4	-56.3	1.0	9.3	83.4	-28.1
6951.9000	13.8	-54.8	1.1	9.5	81.8	-26.5
7820.8875	15.0	-52.3	1.1	9.3	79.5	-24.2
8689.8750	14.8	-47.5	1.2	9.5	74.6	-19.3

Table 7-23: Part 90.543(f): Out of Band Emissions Limit

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator Level (dBm)	Cable Loss to Transmit Antenna (dB)	Substitution Antenna Gain (dBi)	Corrected Signal Generator Level (dBW)	Limit (dBW)	Margin (dB)
1597.250	14.8	-52.5	0.5	6.7	-76.3	-70.0	-6.3
1604.000	18.2	-49.1	0.5	6.8	-72.8	-70.0	-2.8
1610.000	19.7	-50.7	0.5	6.7	-74.5	-70.0	-4.5

Table 7-24: Unintentional/Digital Emissions

Temperature: 43.0°F Humidity: 48% Barometric Pressure: 30.16"Hg										
Emission Frequency (MHz)	Test Detector	Antenna Polarity (H/V)	Turntable Azimuth (°)	Antenna Height (m)	Analyzer Reading (dBμV)	Site Correction Factor (dB/m)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pass/Fail
234.0	QP	H	345.0	1.0	1.3	20.1	21.1	46.0	-24.9	Pass
260.0	QP	H	350.0	2.5	10.7	21.1	23.6	46.0	-22.4	Pass
312.0	QP	H	270.0	1.5	6.4	21.1	22.6	46.0	-23.4	Pass
858.0	QP	H	50.0	1.0	-5.4	31.2	32.2	46.0	-13.8	Pass
910.0	QP	H	120.0	1.0	-5.8	31.9	32.9	46.0	-13.1	Pass
962.0	QP	H	120.0	1.0	-5.2	33.2	34.2	54.0	-19.8	Pass
1014.0	Av	V	5.0	1.0	-3.3	32.7	33.7	54.0	-20.3	Pass
1066.0	Av	H	90.0	1.0	-3.0	34.1	35.1	54.0	-18.9	Pass
1118.0	Av	H	90.0	1.0	-3.0	33.5	34.5	54.0	-19.5	Pass

Measurement uncertainty 30 MHz – 6 GHz = ± 4.8 dB and 6 GHz and above = ± 5.2 dB: This measurement uncertainty is expanded for a 95% confidence level received with a coverage factor $k=2$ for the entire frequency range.

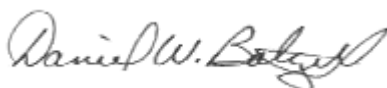
Results: Pass

Table 7-25: Test Equipment Used For Testing Field Strength of Spurious Radiation

RTL Asset #	Manufacturer	Model	Part Type	Serial Number	Calibration Due Date
900878	Rhein Tech Laboratories	AM3-1197-0005	3 meter antenna mast, polarizing	OATS1	N/A
901792	Shireen	UF1-2.92	40 GHz 300" Cable	N/A	08/02/2026
901128	Par Electronics	806-902 (25W)	UHF Notch Filter	N/A	11/28/2026
901242	Rhein Tech Laboratories	WRT-000-0003	Wood rotating table	N/A	N/A
901669	ETS-Lindgren	3142E	Biconilog Antenna (30 MHz–6000 MHz)	00166065	07/11/2027
900321	EMCO	3161-03	Horn Antenna (4.0-8.2 GHz)	9508-1020	08/05/2027
900323	EMCO	3160-07	Horn Antenna (8.2-12.4 GHz)	9605-1054	08/05/2027
900772	EMCO	3161-02	Horn Antenna (2-4 GHz)	9804-1044	08/05/2027
901773	Rohde & Schwarz	FSW50	Analyzer	101021	05/30/2027
901582	Rohde & Schwarz	1167.0000.02	Signal Generator	101903	05/27/2027

Test Personnel:

Daniel W. Baltzell
 Test Engineer



Signature

February 17-18, May 20-21, 2025

Dates of Tests