FCC RF Test Report

(U-NII)

Applicant:	TECNO MOBILE LIMITED
Address of Applicant:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Equipment Under Test (EUT)	
Product Name:	Mobile Phone
Model No.:	CK9n
Trade Mark:	TECNO
FCC ID:	2ADYY-CK9N
Applicable Standards:	FCC CFR Title 47 Part 15E (§15.407)
Date of Sample Receipt:	29 Jun., 2023
Date of Test:	30 Jun., to 10 Jul., 2023
Date of Report Issued:	21 Jul., 2023
Test Result:	PASS

Tested by:	Lucas Ding ***Test Engineer***	***Date:***	*21 Jul., 2023*
Reviewed by:	Janet Wu ***Project Engineer***	***Date:***	*21 Jul., 2023*
Approved by:	Marc Zhang ***Manager***	***Date:***	*21 Jul., 2023*

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	*11 Jul., 2023*	*Original*
01	*21 Jul., 2023*	*Updated page 11, 14~43.*

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3 General Information

3.1 Client Information

Applicant:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	TECNO MOBILE LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	CK9n
Operation Frequency:	Band 1: 5150 MHz - 5250 MHz
	Band 4: 5725 MHz - 5850 MHz
Channel Numbers:	Band 1: 4, Band 4: 5 (802.11a, n-HT20, ac-VHT20, ax-HE20)
	Band 1, 4: 2 (802.11n-HT40, ac-VHT40, ax-HE40)
	Band 1, 4: 1 (802.11ac-VHT80, ax-HE80)
Modulation Technology: (IEEE 802.11a/802.11n)	OFDM-BPSK, QPSK, 16QAM, 64QAM
Modulation Technology: (IEEE 802.11ac)	OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology: (IEEE 802.11ax)	OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Antenna Type:	Internal Antenna
Antenna Gain:	ANT2: -0.91 dBi (declare by applicant) ANT4: 1.7 dBi (declare by applicant)
Antenna Transmit Mode:	MIMO (2TX, 2RX)
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.89V, 4900mAh
AC Adapter:	Model: U450TSA Input: AC100-240V, 50/60Hz, 1.5A Output: DC 5.0V, 2.0A or 11.0V, 4.1A MAX
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

3.3 Test Mode and Environment

Test Mode:	
Transmitting mode:	Keep the EUT in continuous transmitting with modulation

Per-scan all kind of data rate, the follow list were the worst case:

Mode	Data rate
802.11a	6.0 Mbps
802.11n-HT20	6.5 Mbps
802.11n-HT40	13.5 Mbps
802.11ac-VHT20	6.5 Mbps
802.11ac-VHT40	13.5 Mbps
802.11ac-VHT80	29.3 Mbps
802.11ax-HE20	8.6 Mbps
802.11ax-HE40	17.2 Mbps
802.11ax-HE80	36.0 Mbps

Remark: *For AC power line conducted emission and radiated spurious emission (below 1GHz), pre-scan 802.11a, n, ac, ax modulation mode, found 802.11a modulation mode was worse case mode. The report only reflects the test data of worst mode.*

Operating Environment:	
Temperature:	15℃ ~ 35℃
Humidity:	20 % ~ 75 % RH
Atmospheric Pressure:	1008 mbar
Voltage:	Nominal: 3.89 Vdc, Extreme: Low 3.45 Vdc, High 4.48 Vdc

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 10MHz)	1.9 dB
Conducted Emission for LISN (10MHz ~ 30MHz)	2.6 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	3.8 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	3.6 dB
Radiated Emission (18GHz ~ 40GHz) (3m SAC)	5.34 dB

Note: *All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.*

3.6 Additions to, Deviations, or Exclusions from the Method

No

3.7 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L15527**

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

3.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.
Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info-JYTee@lets.com, Website: http://jyt.lets.com

3.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	02-09-2023	02-08-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-09-2023	02-08-2024
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXJ001-3	01-10-2023	01-09-2024
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	10-17-2022	10-16-2023
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	01-18-2023	01-17-2024
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	01-18-2023	01-17-2024
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A	
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Method:					
Test Equipment	**Manufacturer**	**Model No.**	**Manage No.**	**Cal. Date (mm-dd-yy)**	**Cal. Due date (mm-dd-yy)**
Spectrum Analyzer	Keysight	N9010B	WXJ004-3	10-17-2022	10-16-2023
DC Power Supply	Keysight	E3642A	WXJ025-2	N/A	
Temperature Humidity Chamber	ZHONG ZHI	CZ-A-80D	WXJ032-3	01-09-2023	01-08-2025
Power Detector Box	MWRFTEST	MW100-PSB	WXJ007-4	10-17-2022	10-16-2023
RF Control Unit	MWRFTEST	MW100-RFCB	WXG006	N/A	
Test Software	MWRFTEST	MTS 8310	Version: 2.0.0.0		

4 Measurement Setup and Procedure

4.1 Test Channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Operation frequency: 5150 MHz – 5250 MHz

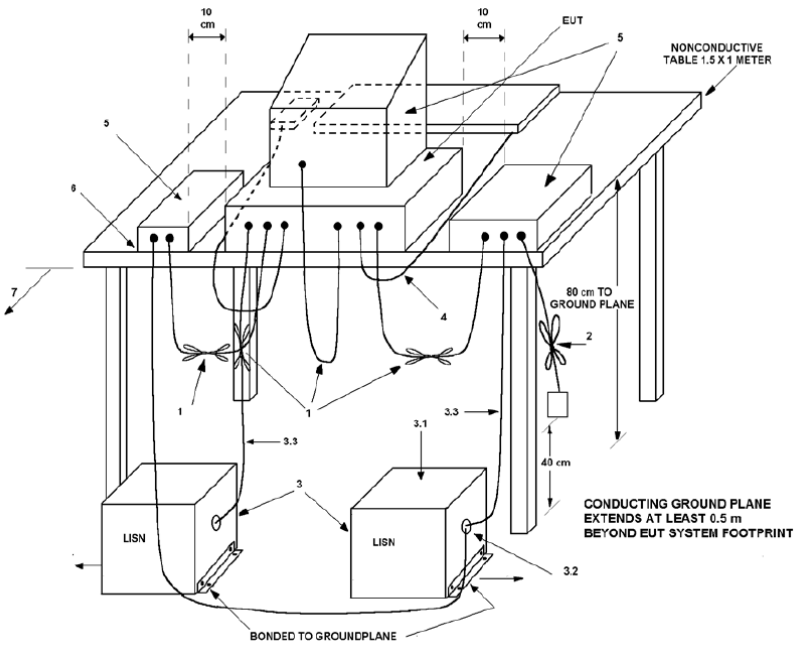
Modulation mode	Lowest channel		Middle channel		Highest channel	
	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11a, n-HT20, ac-VHT20, ax-HE20	36	5180	40	5200	48	5240
802.11n-HT40, ac-VHT40, ax-HE40	38	5190	/	/	46	5230
802.11ac-VHT80, ax-HE80	/	/	42	5210	/	/

Operation frequency: 5725 MHz – 5850 MHz

Modulation mode	Lowest channel		Middle channel		Highest channel	
	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
802.11a, n-HT20, ac-VHT20, ax-HE20	149	5745	157	5785	165	5825
802.11n-HT40, ac-VHT40, ax-HE40	151	5755	/	/	159	5795
802.11ac-VHT80, ax-HE80	/	/	155	5775	/	/

4.2 Test Setup

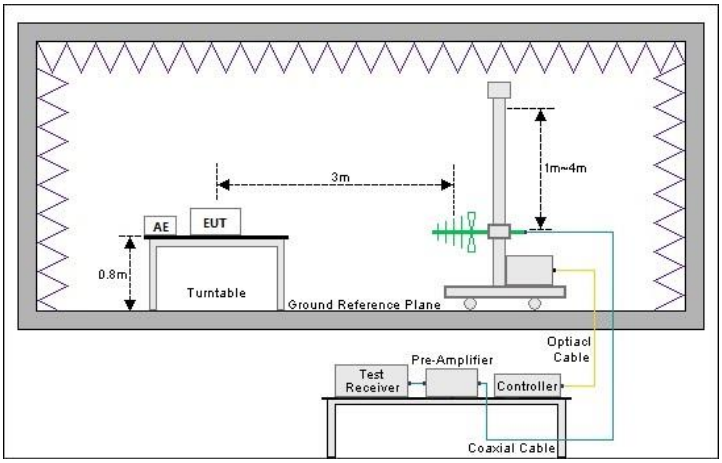
1) Conducted emission measurement:



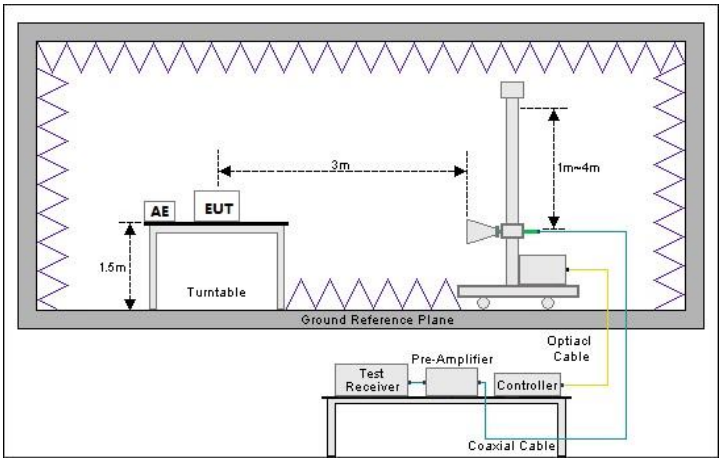
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

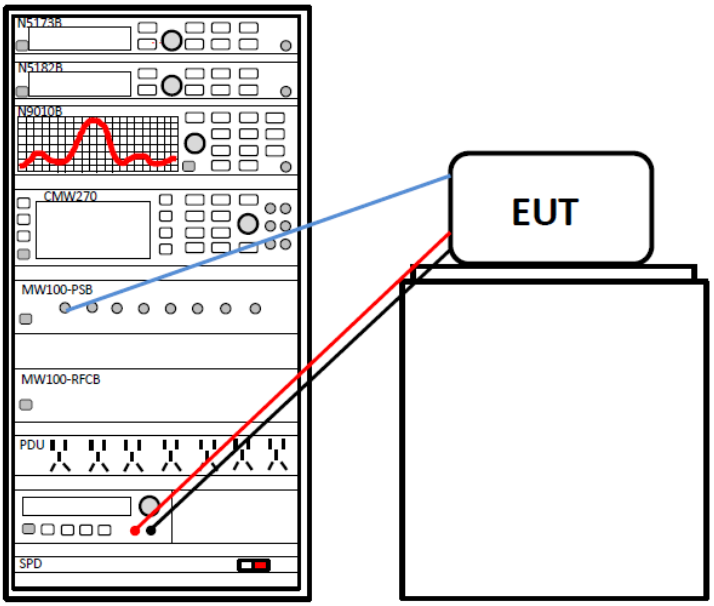
Below 1GHz (3m SAC)



Above 1GHz (3m SAC)



3) Conducted test method



4.3 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	**For below 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data. **For above 1GHz:** 1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The Wi-Fi antenna port of EUT was connected to the test port of the test system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. Open the test software, prepare a test plan, and control the system through the software. After the test is completed, the test report is exported through the test software.

5 Test Results

5.1 Summary

5.1.1 Clause and Data Summary

This report was amended on FCC ID: 2ADYY-CK9N follow FCC Class II Permissive Change. The original report: JYTSZ-R12-2300061, issued by JianYan Testing Group Shenzhen Co., Ltd. The differences between them as below: The values of C5003, L5020 and L5016 devices. These three components are optimized for Wi-Fi performance, So need to Spot test Duty Cycle, Conducted Output Power and Unwanted Emissions above 1GHz.

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.
AC Power Line Conducted Emission	15.207 15.407 (b)(9)	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.
Duty Cycle	ANSI C63.10-2013	See Section 5.4	Pass
Conducted Peak Output Power Power Spectral Density	15.407 (a)(1)(iv) (a)(3)(i)	See Section 5.5	Pass
26dB Emission Bandwidth 99% Occupied Bandwidth	15.407 (a)(12)	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.
6dB Emission Bandwidth	15.407 (e)	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.
Unwanted Emissions	15.205 15.209 15.407 (b)(1), (4), (9), (10)	See Section 5.6	Pass
Frequency Stability	15.407 (g)	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.	Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.
Dynamic frequency selection	15.407 (h)(2)	N/A	N/A

Remark:

1. *Pass: The EUT complies with the essential requirements in the standard.*
2. *N/A: Not Applicable.*
3. *The cable insertion loss used by "RF Output Power" and other conduction measurement items is 1.0dB (provided by the customer).*

Test Method:	*ANSI C63.10-2013* *KDB 789033 D02 General U-NII Test Procedures New Rules v02r01*

5.1.2 Test Limit

<table>
<tr><th>Test items</th><th>Limit</th></tr>
<tr><td>AC Power Line Conducted Emission</td><td>
<table>
<tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV)</th></tr>
<tr><th>Quasi-Peak</th><th>Average</th></tr>
<tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr>
<tr><td>0.5 – 5</td><td>56</td><td>46</td></tr>
<tr><td>5 – 30</td><td>60</td><td>50</td></tr>
<tr><td colspan="3">Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency.
Note 2: The more stringent limit applies at transition frequencies.</td></tr>
</table>
</td></tr>
<tr><td>Conducted Peak Output Power

Power Spectral Density</td><td>For the 5.15-5.25 GHz band:
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.895 GHz:
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, Fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.</td></tr>
<tr><td>26dB Emission Bandwidth
99% Occupied Bandwidth</td><td>N/A</td></tr>
<tr><td>6dB Emission Bandwidth</td><td>Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.</td></tr>
</table>

<table>
<tr>
<td>Unwanted Emissions</td>
<td>
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating solely in the 5.725-5.850 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(3) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section:
<table>
<tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBμV/m)</th><th rowspan="2">Detector</th></tr>
<tr><th>@ 3m</th><th>@ 10m</th></tr>
<tr><td>30 – 88</td><td>40.0</td><td>30.0</td><td>Quasi-peak</td></tr>
<tr><td>88 – 216</td><td>43.5</td><td>33.5</td><td>Quasi-peak</td></tr>
<tr><td>216 – 960</td><td>46.0</td><td>36.0</td><td>Quasi-peak</td></tr>
<tr><td>960 – 1000</td><td>54.0</td><td>44.0</td><td>Quasi-peak</td></tr>
<tr><td colspan="4">Note: The more stringent limit applies at transition frequencies.</td></tr>
<tr><th rowspan="2">Frequency</th><th colspan="2">Limit (dBμV/m) @ 3m</th></tr>
<tr><th>Average</th><th>Peake</th></tr>
<tr><td>Above 1 GHz</td><td>54.0</td><td>74.0</td></tr>
<tr><td colspan="3">Note: The measurement bandwidth shall be 1 MHz or greater.</td></tr>
</table>
</td>
</tr>
<tr>
<td>Frequency Stability</td>
<td>Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.</td>
</tr>
</table>

5.2 Antenna requirement

Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.

5.3 AC Power Line Conducted Emission

Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.

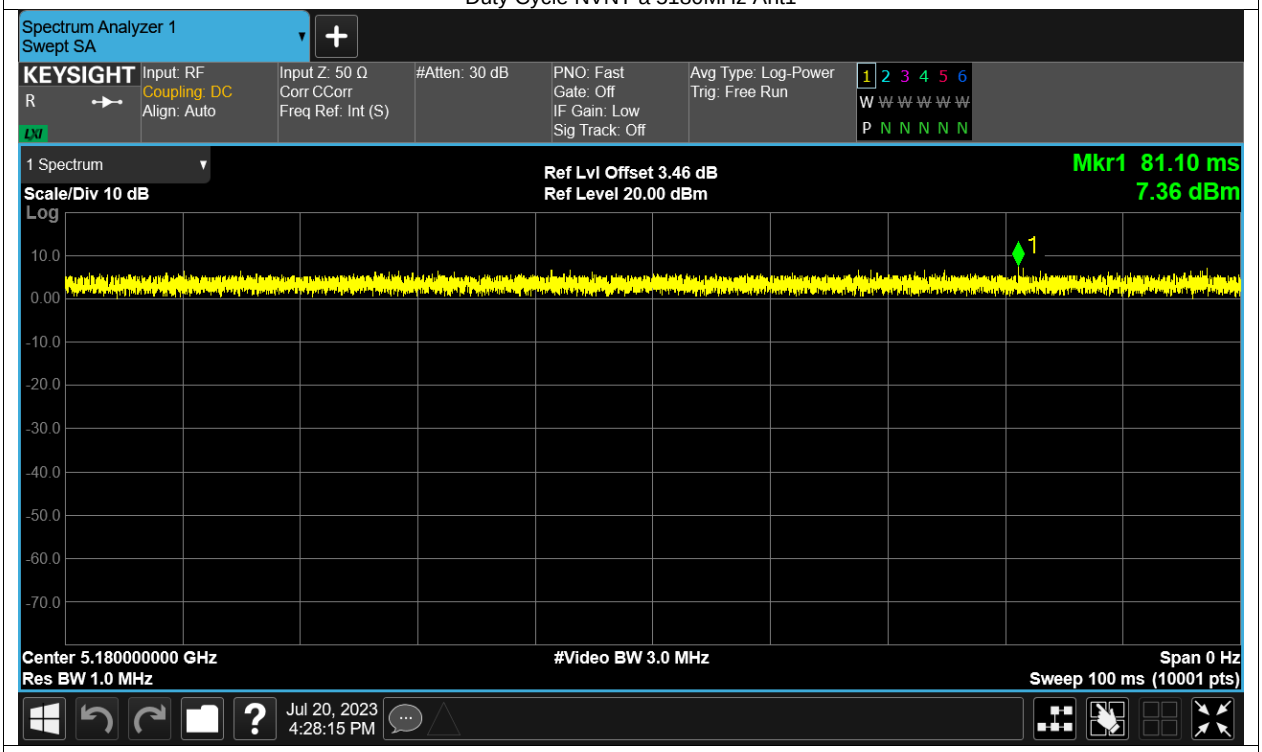
5.4 Duty Cycle

5.2GWi-Fi:

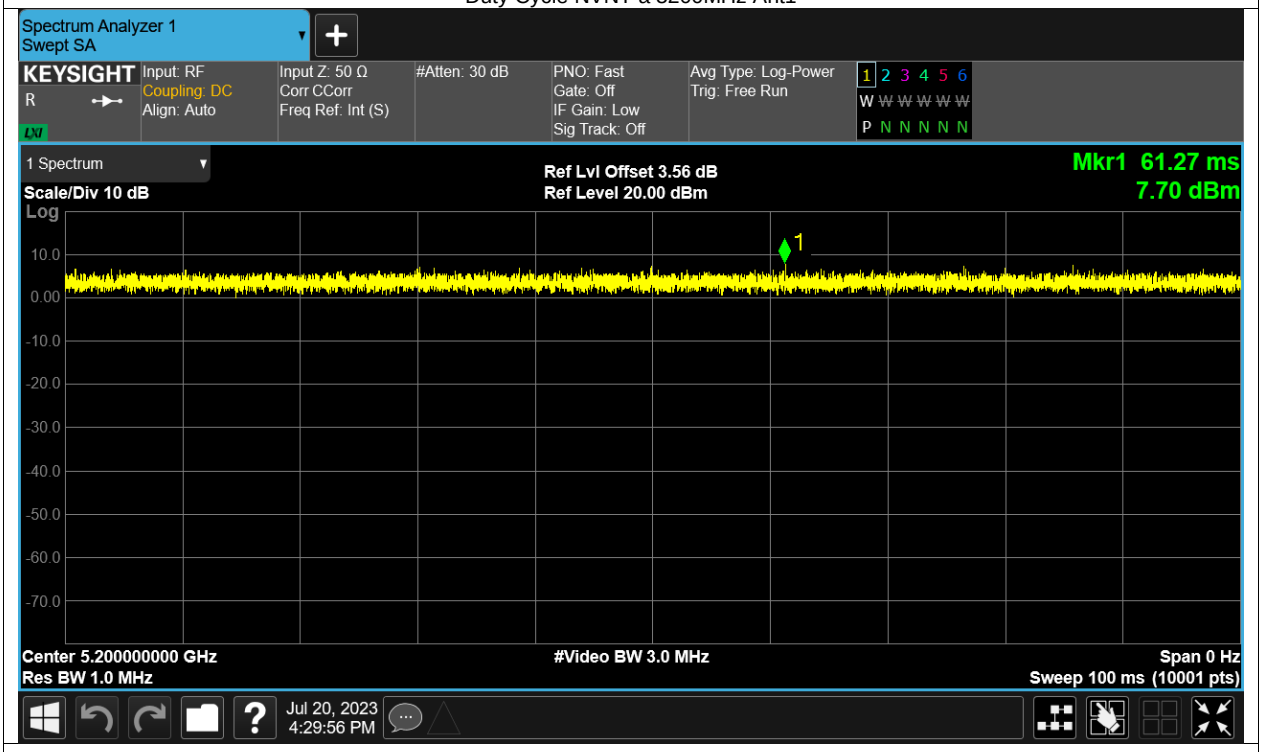
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	100	0
NVNT	a	5200	Ant1	100	0
NVNT	a	5240	Ant1	100	0
NVNT	a	5180	Ant2	100	0
NVNT	a	5200	Ant2	100	0
NVNT	a	5240	Ant2	100	0
NVNT	ac20	5180	Sum	100	0
NVNT	ac20	5200	Sum	100	0
NVNT	ac20	5240	Sum	100	0
NVNT	ac40	5190	Sum	100	0
NVNT	ac40	5230	Sum	100	0
NVNT	ac80	5210	Sum	100	0
NVNT	ax20	5180	Sum	100	0
NVNT	ax20	5200	Sum	100	0
NVNT	ax20	5240	Sum	100	0
NVNT	ax40	5190	Sum	100	0
NVNT	ax40	5230	Sum	100	0
NVNT	ax80	5210	Sum	100	0
NVNT	n20	5180	Sum	100	0
NVNT	n20	5200	Sum	100	0
NVNT	n20	5240	Sum	100	0
NVNT	n40	5190	Sum	100	0
NVNT	n40	5230	Sum	100	0

Test Graphs

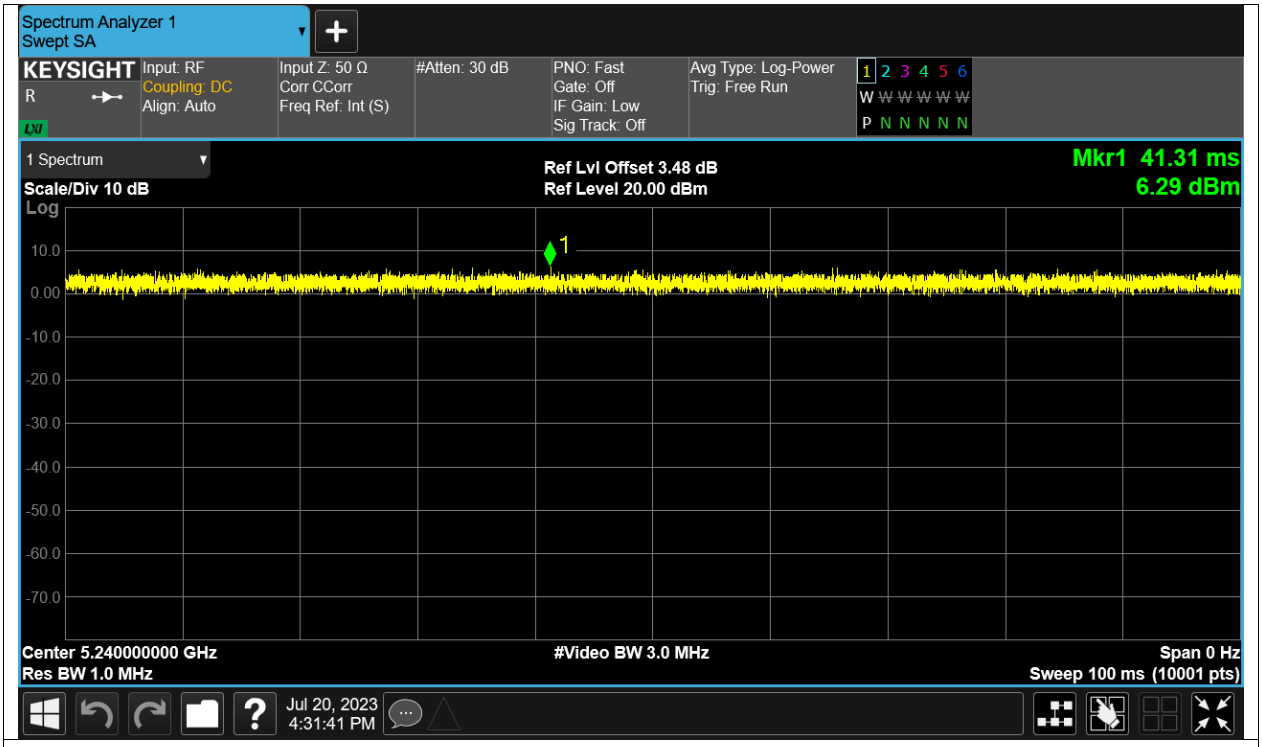
Duty Cycle NVNT a 5180MHz Ant1



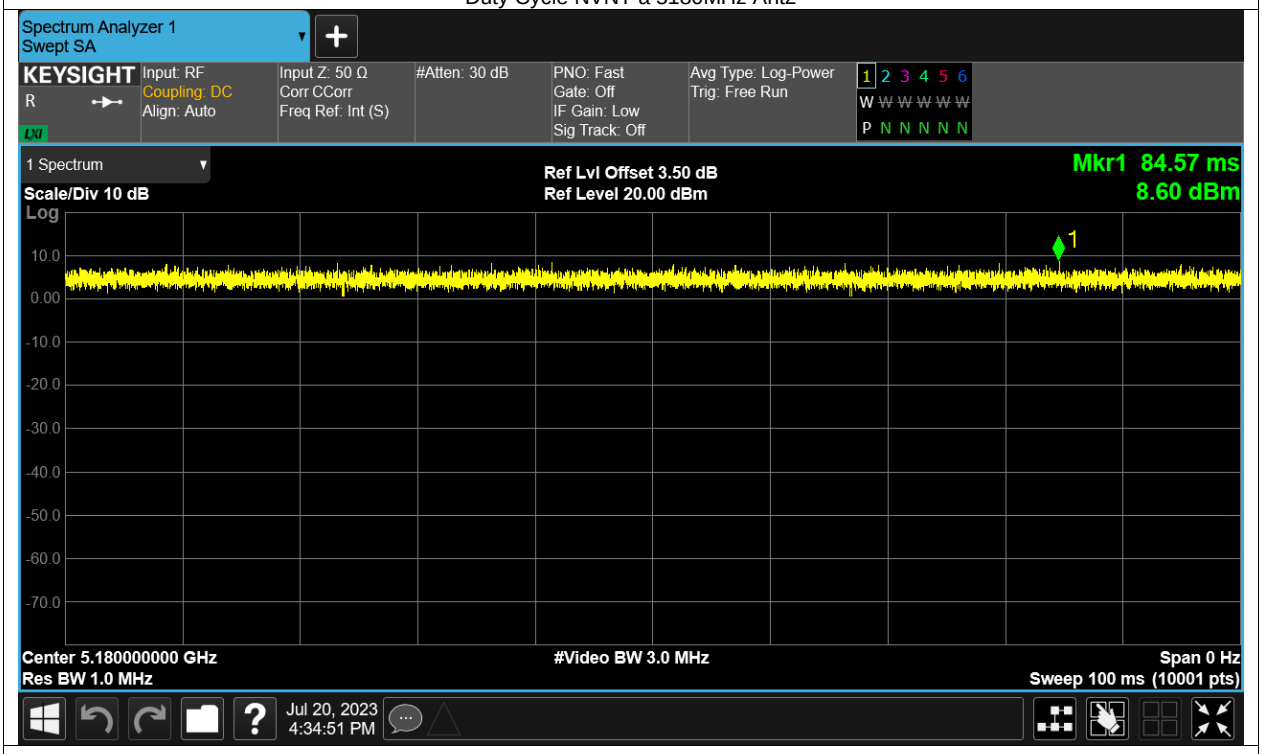
Duty Cycle NVNT a 5200MHz Ant1



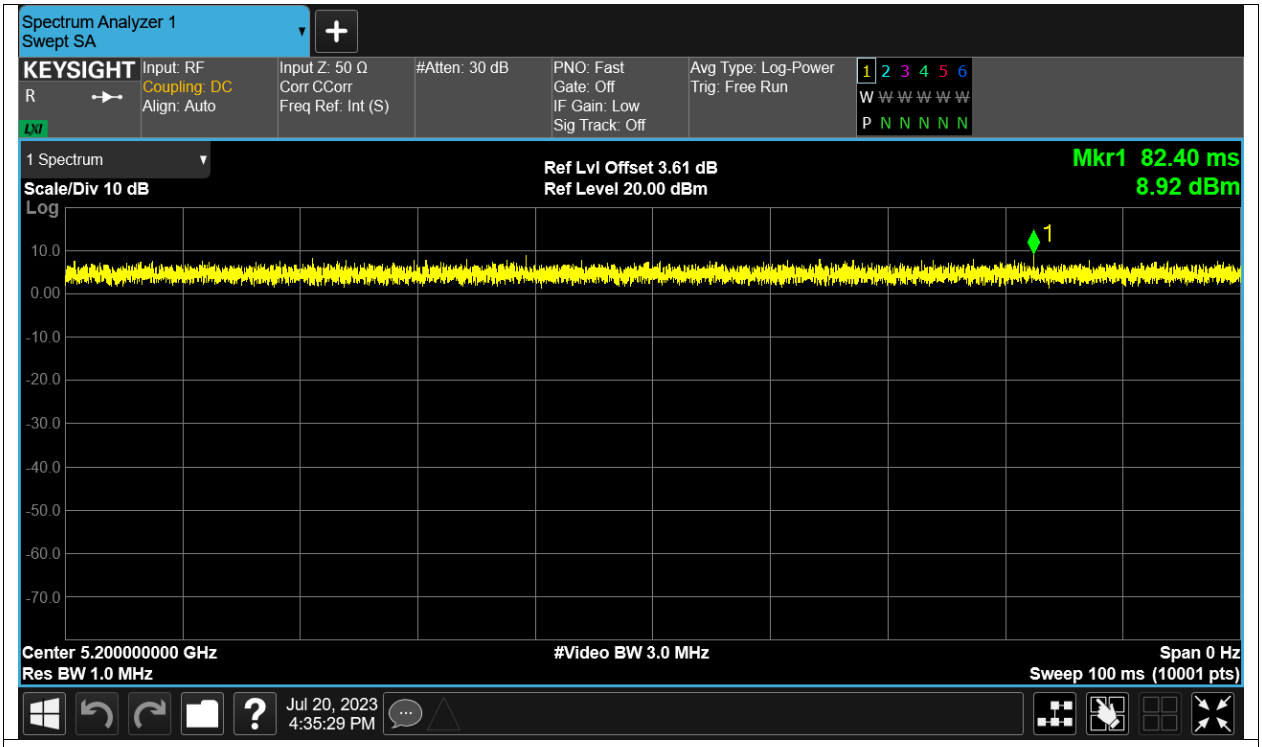
Duty Cycle NVNT a 5240MHz Ant1



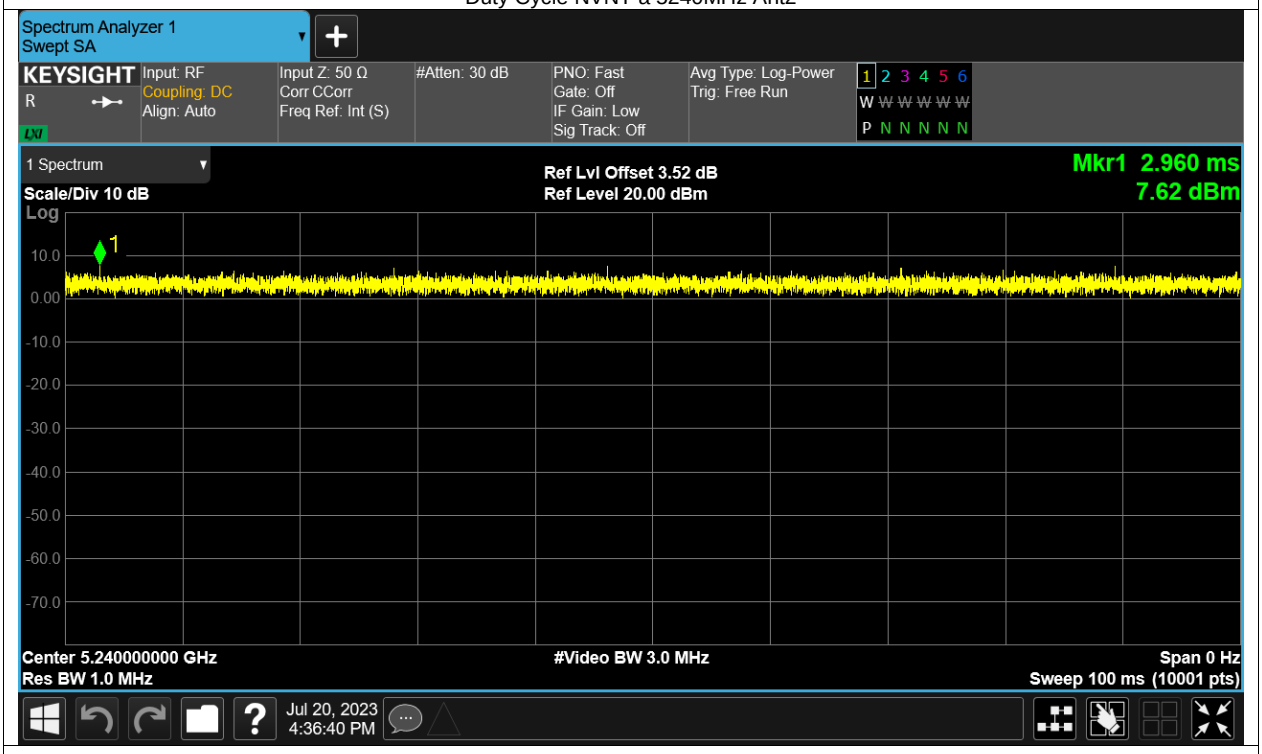
Duty Cycle NVNT a 5180MHz Ant2



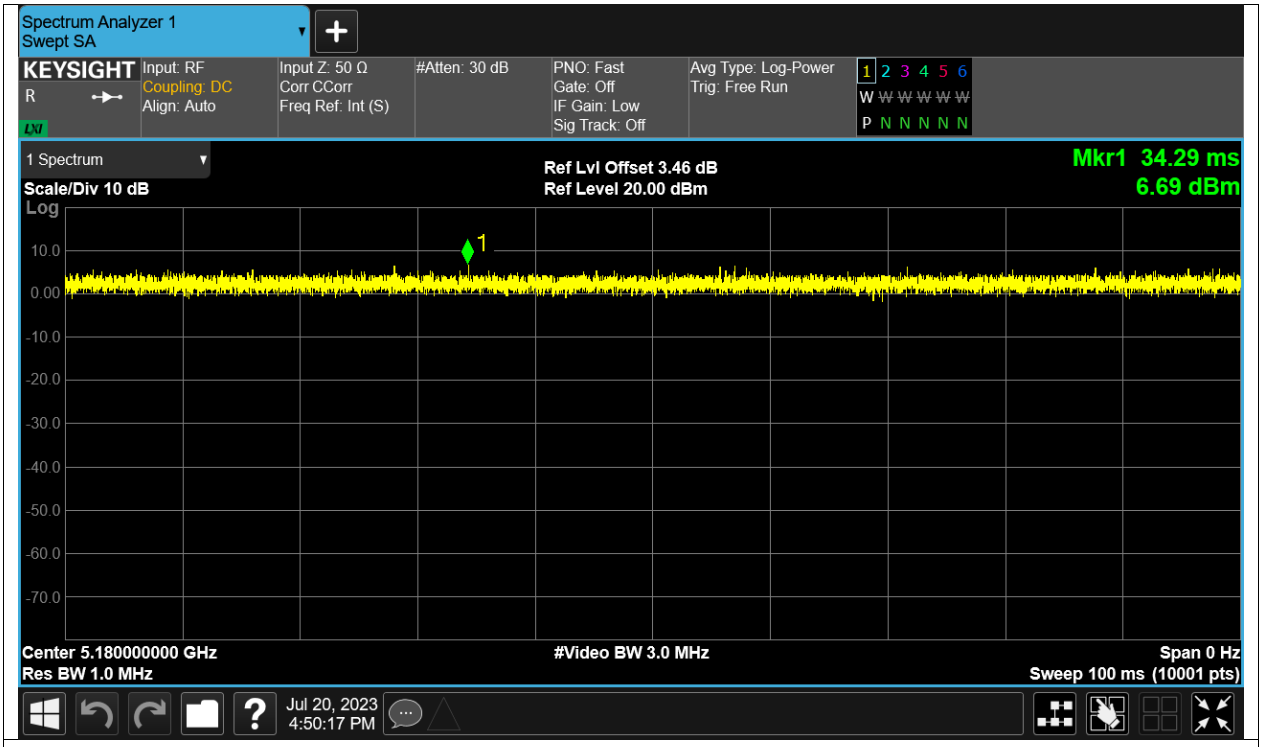
Duty Cycle NVNT a 5200MHz Ant2



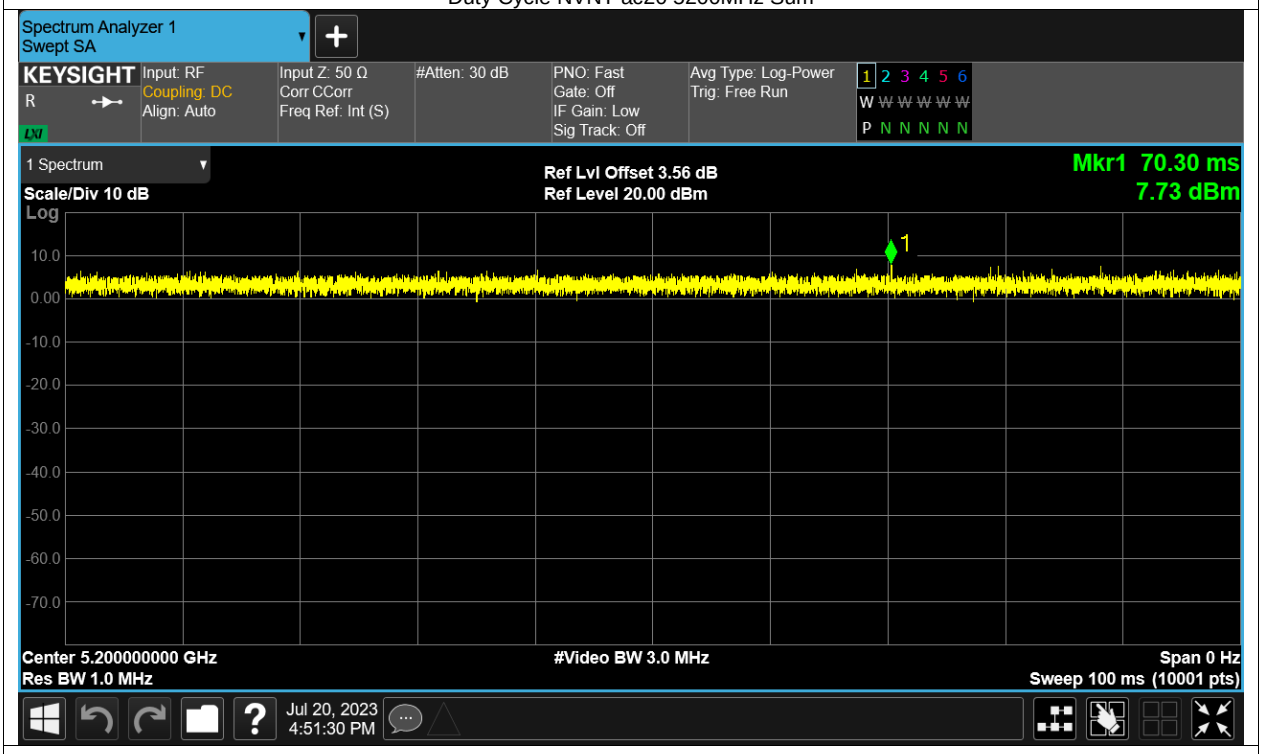
Duty Cycle NVNT a 5240MHz Ant2



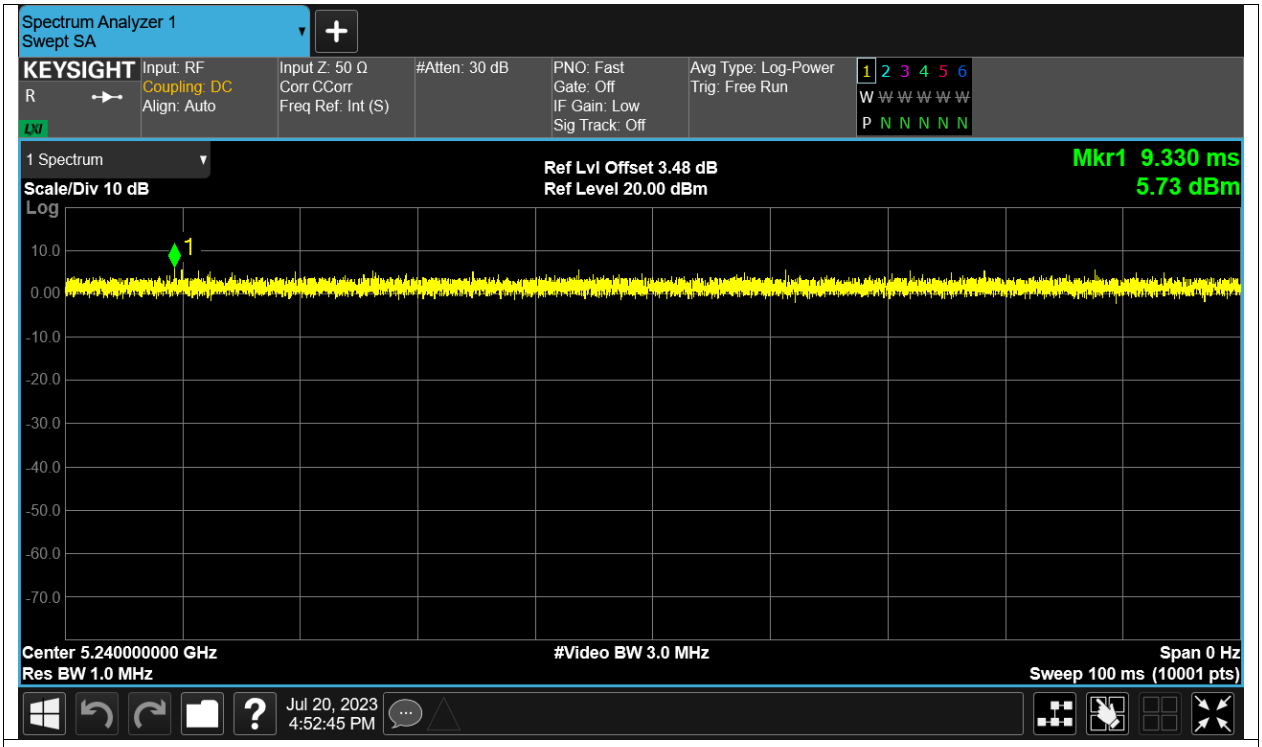
Duty Cycle NVNT ac20 5180MHz Sum



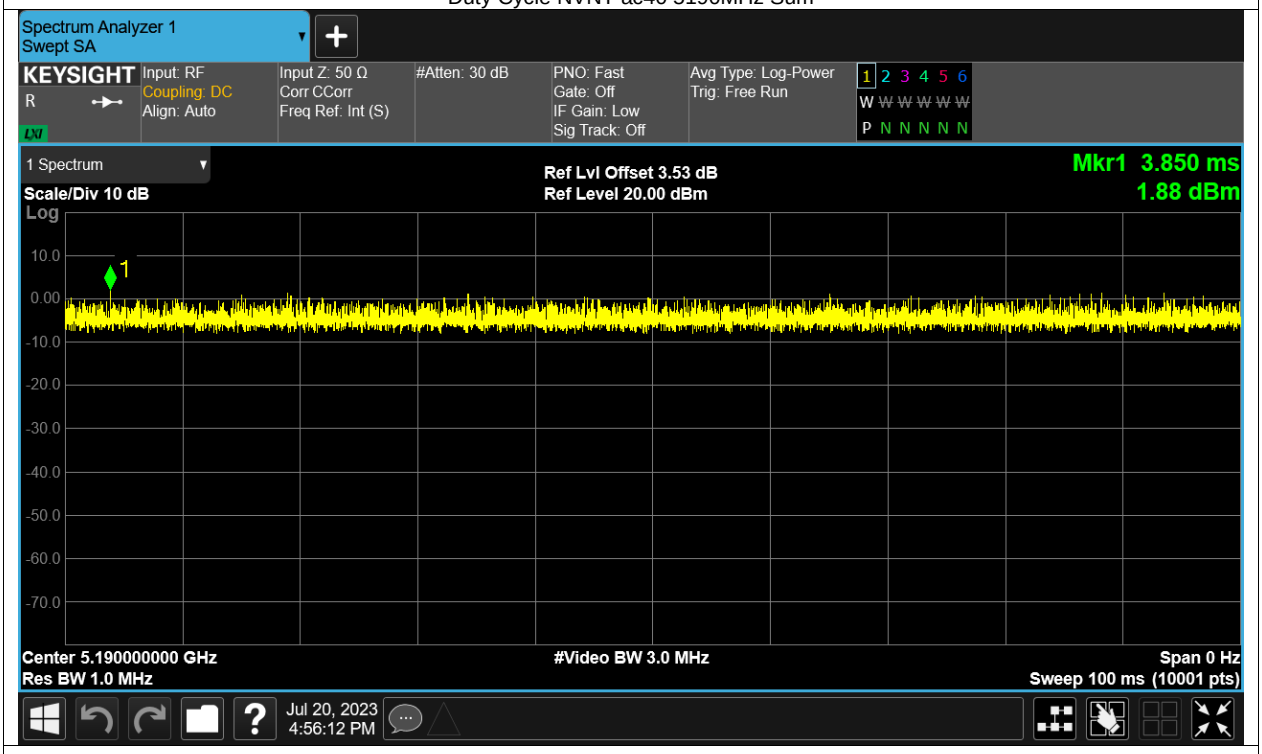
Duty Cycle NVNT ac20 5200MHz Sum



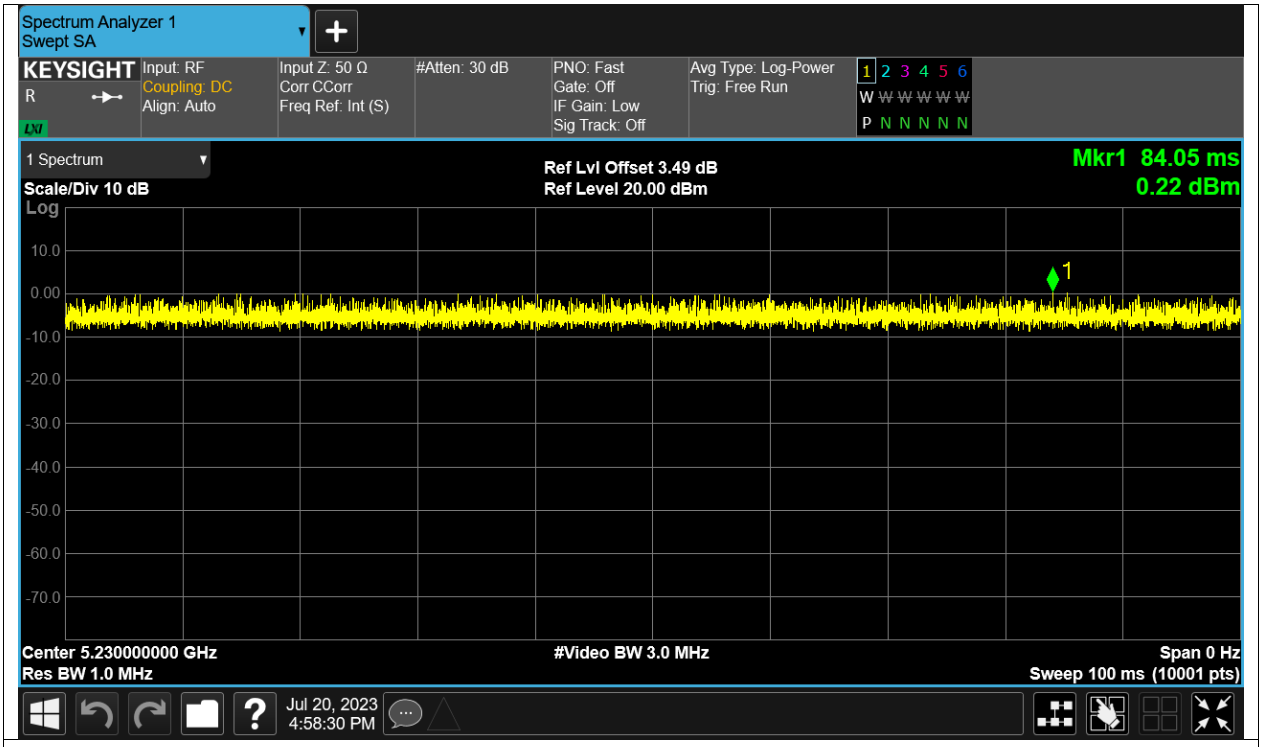
Duty Cycle NVNT ac20 5240MHz Sum



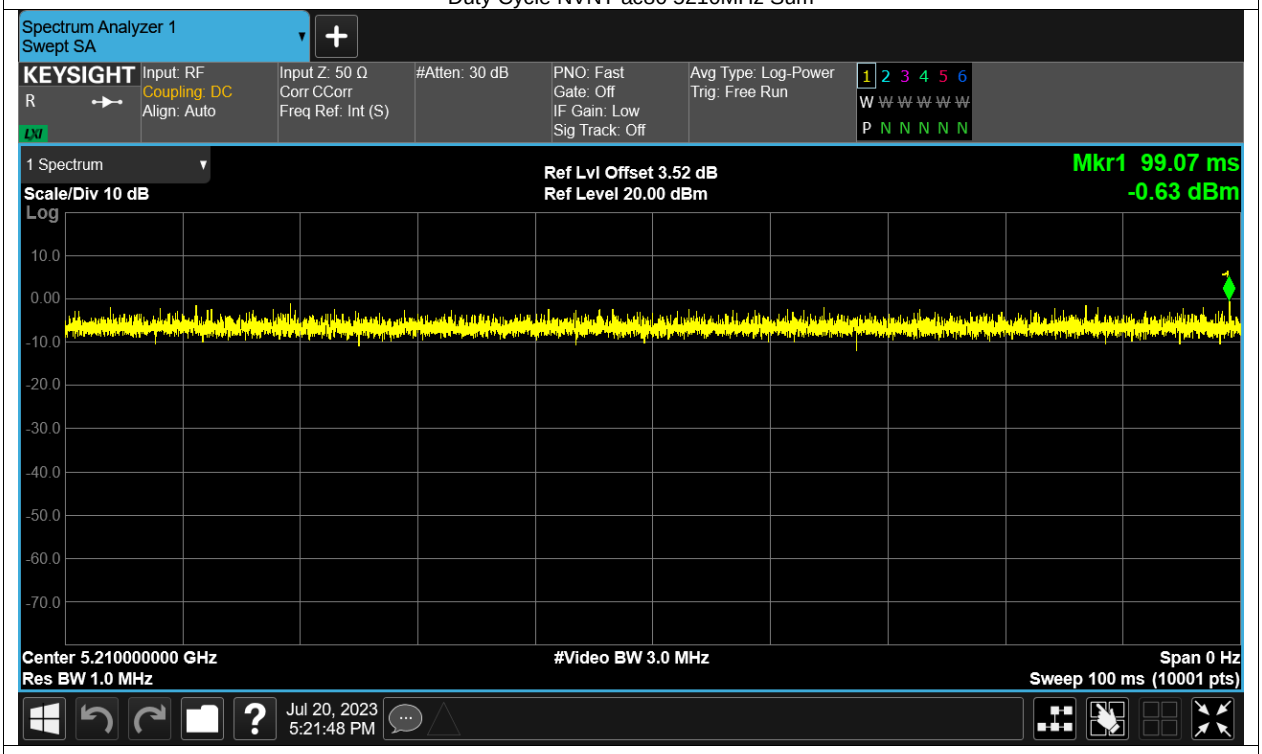
Duty Cycle NVNT ac40 5190MHz Sum



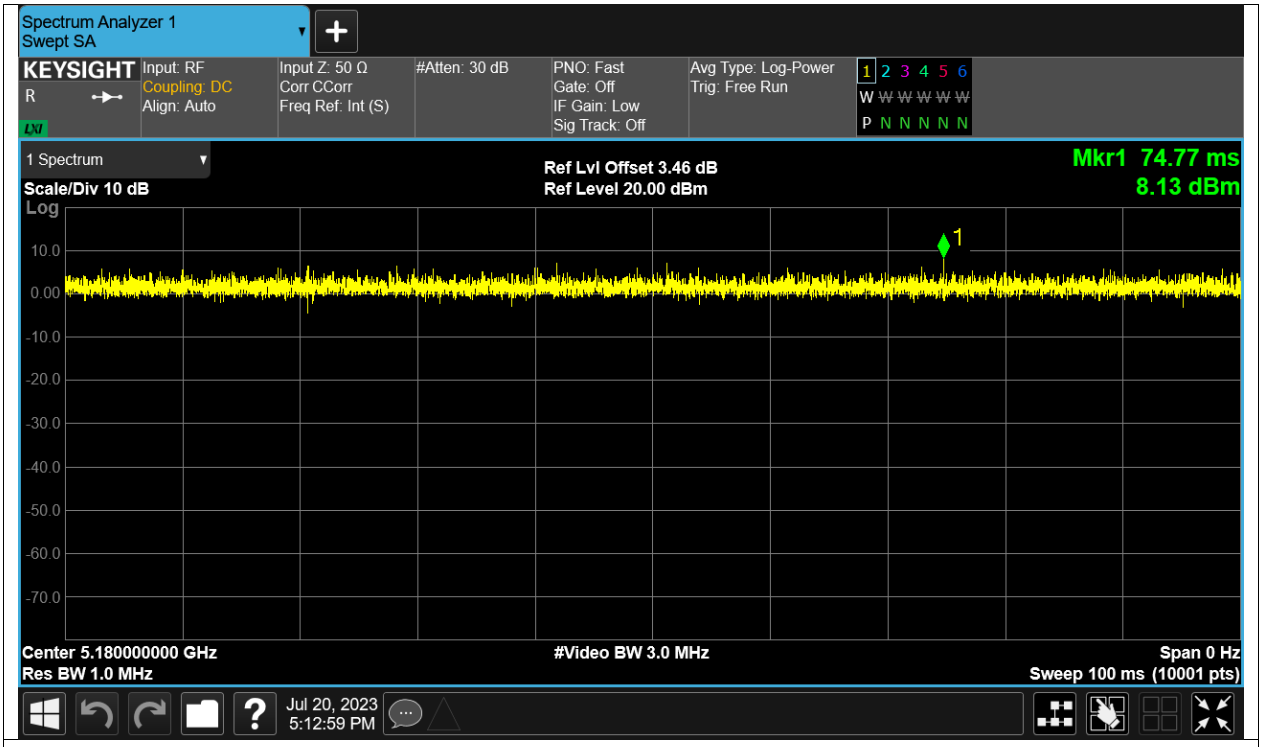
Duty Cycle NVNT ac40 5230MHz Sum



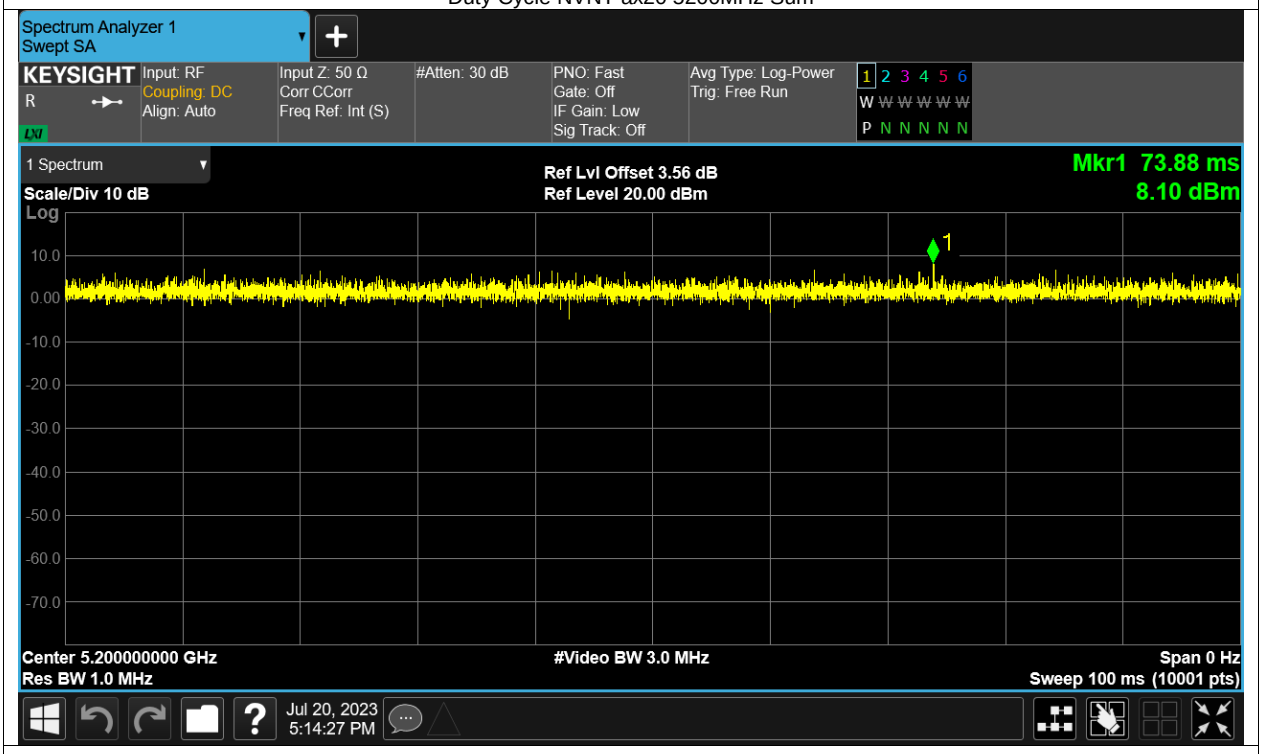
Duty Cycle NVNT ac80 5210MHz Sum



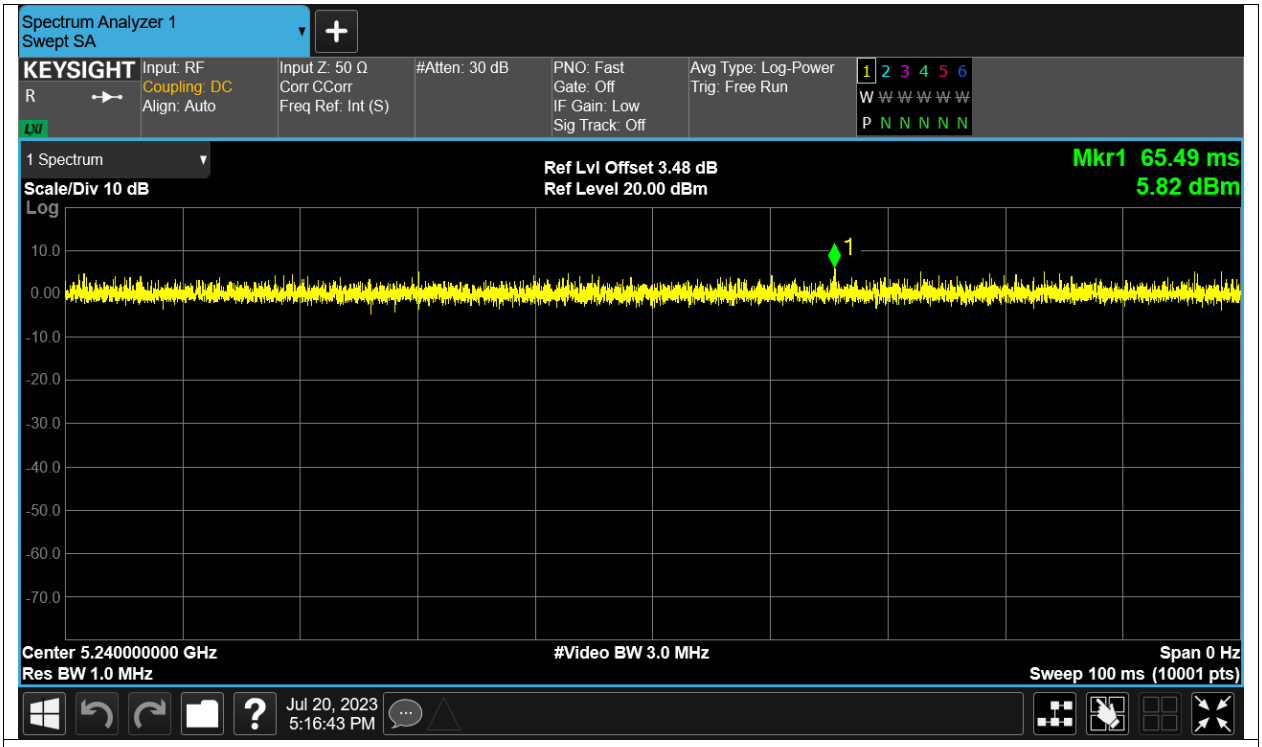
Duty Cycle NVNT ax20 5180MHz Sum



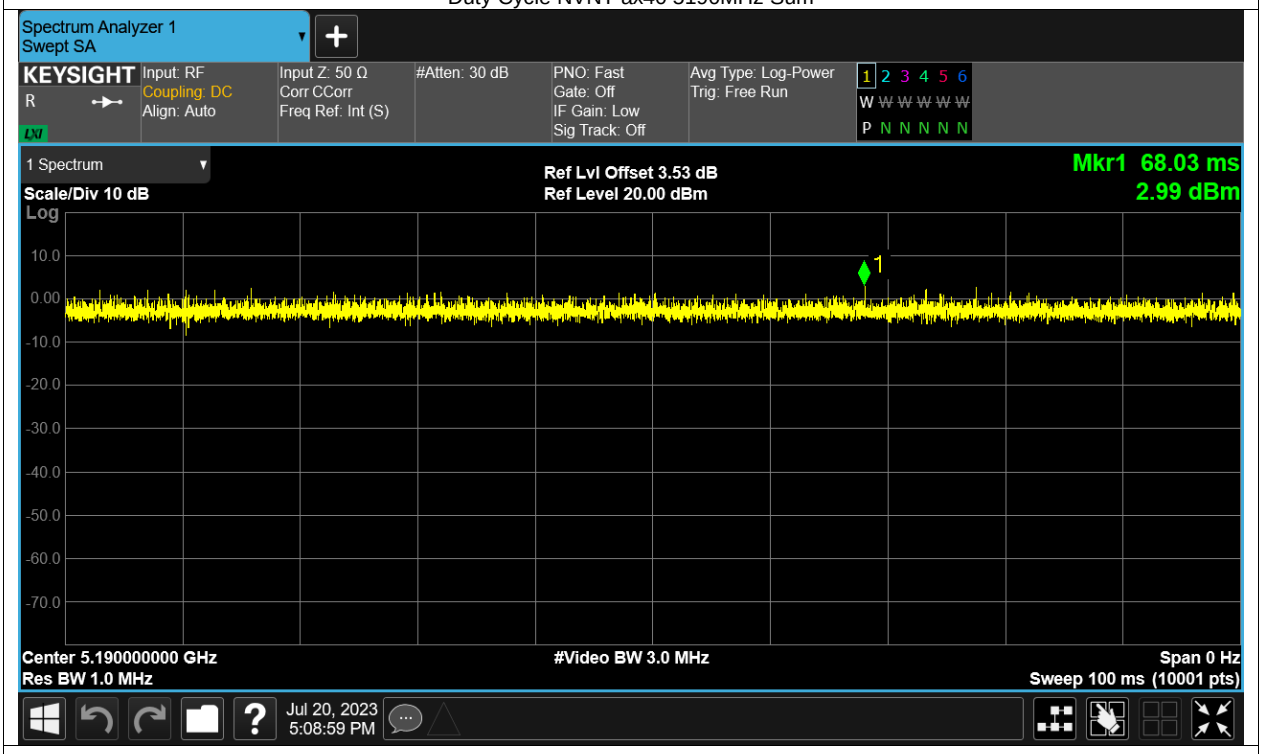
Duty Cycle NVNT ax20 5200MHz Sum



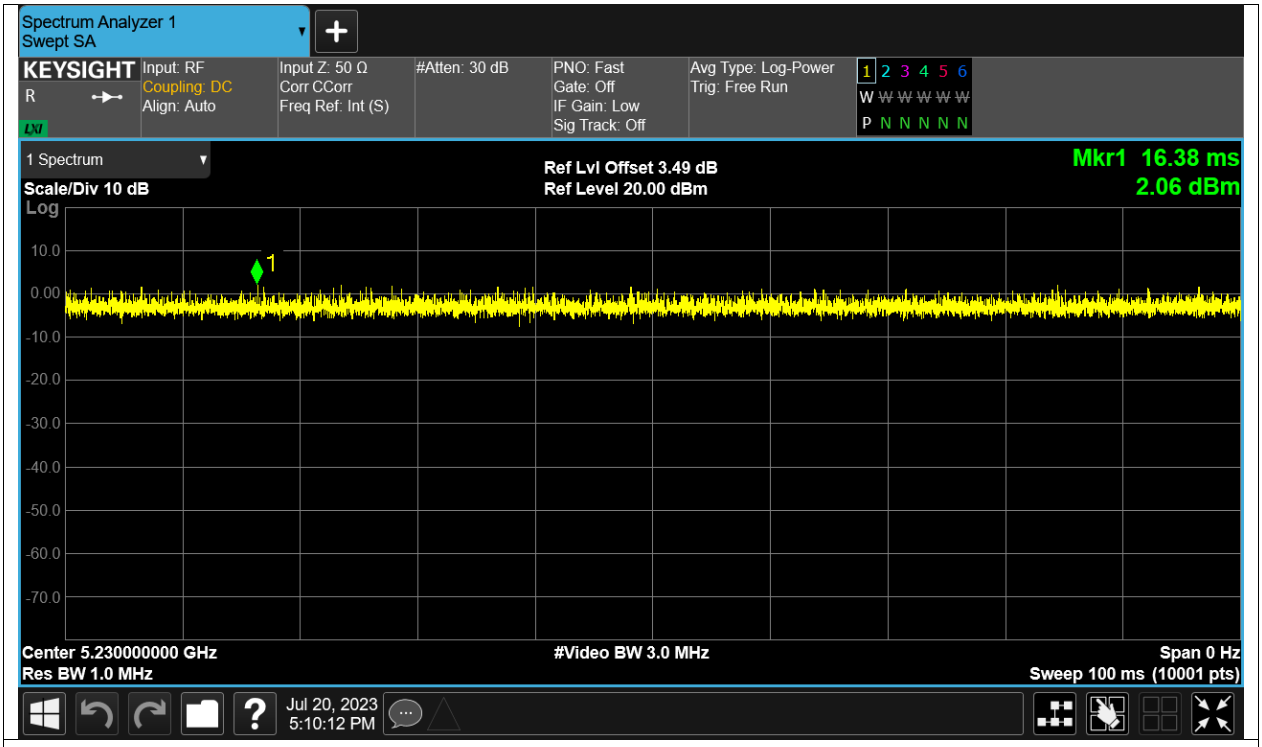
Duty Cycle NVNT ax20 5240MHz Sum



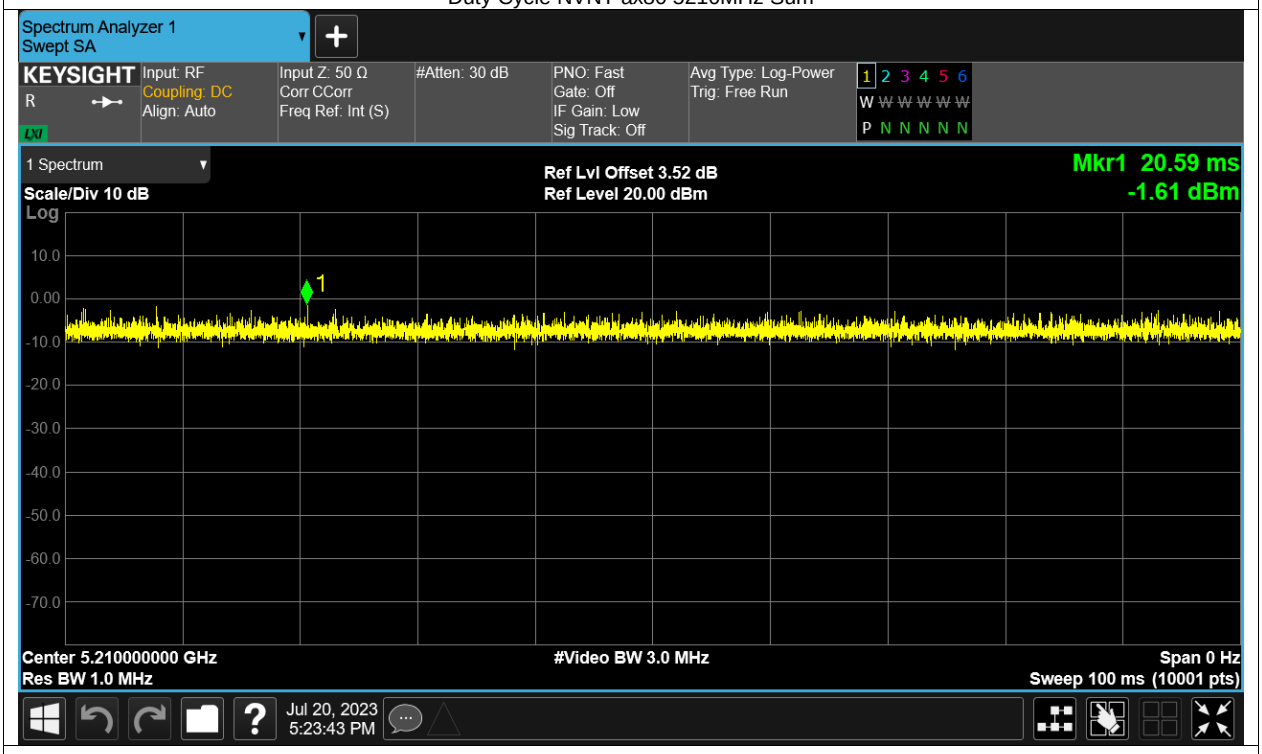
Duty Cycle NVNT ax40 5190MHz Sum



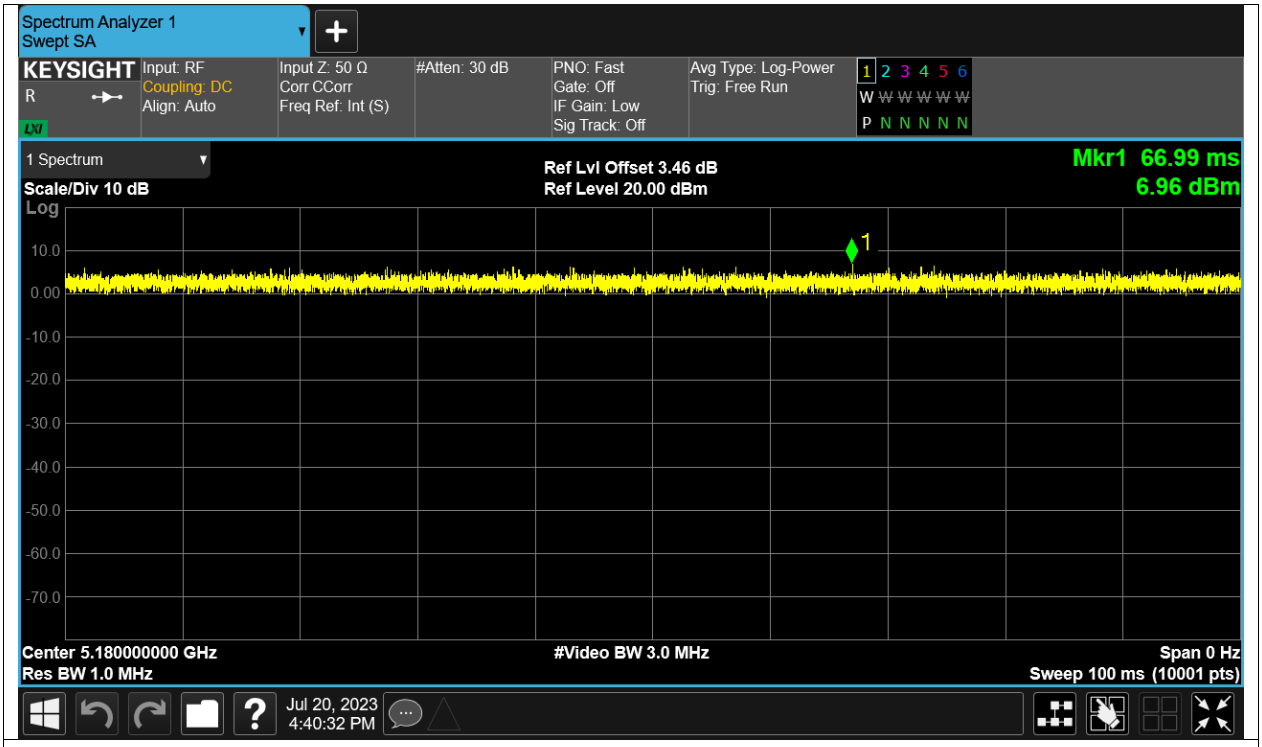
Duty Cycle NVNT ax40 5230MHz Sum



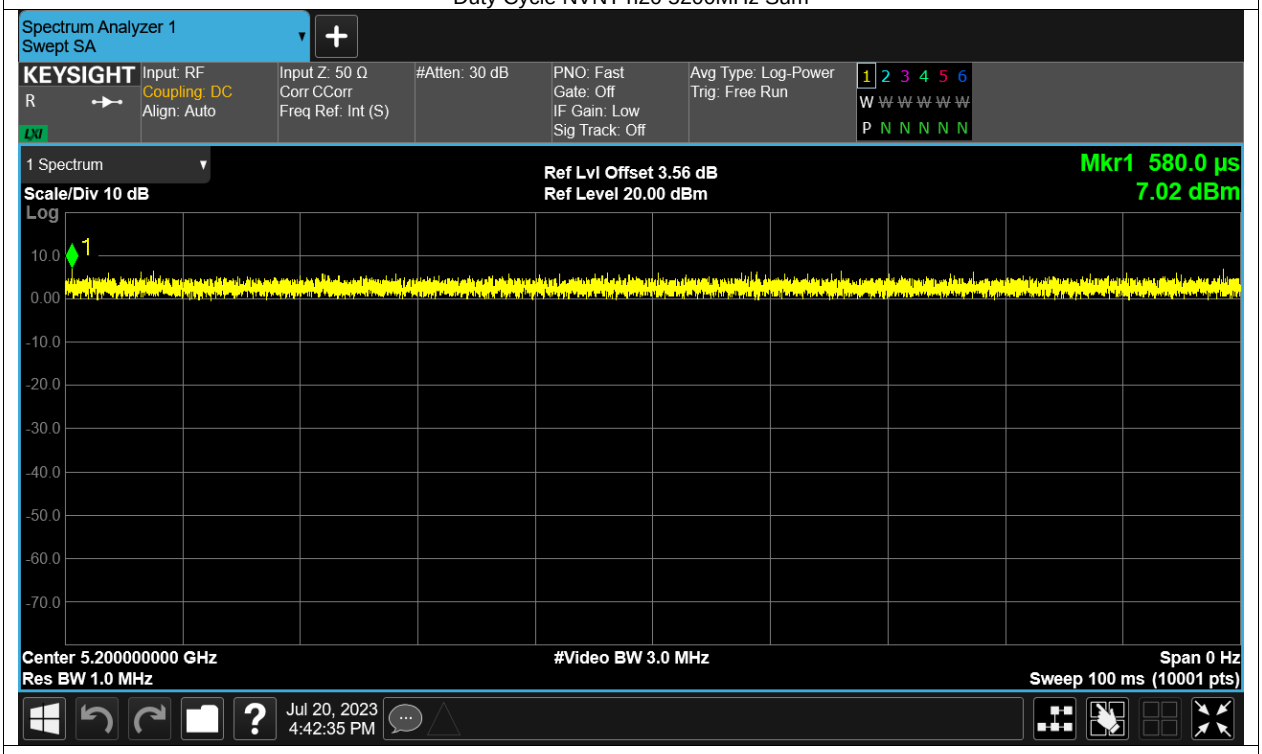
Duty Cycle NVNT ax80 5210MHz Sum



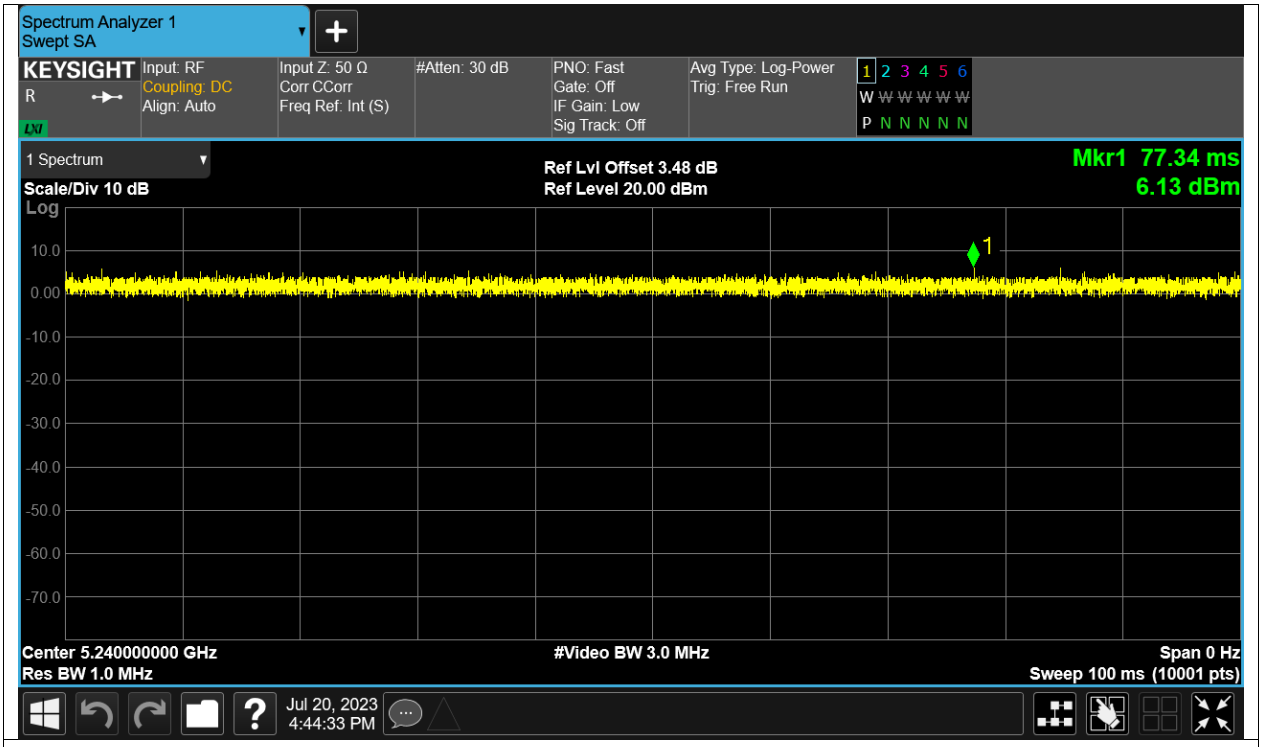
Duty Cycle NVNT n20 5180MHz Sum



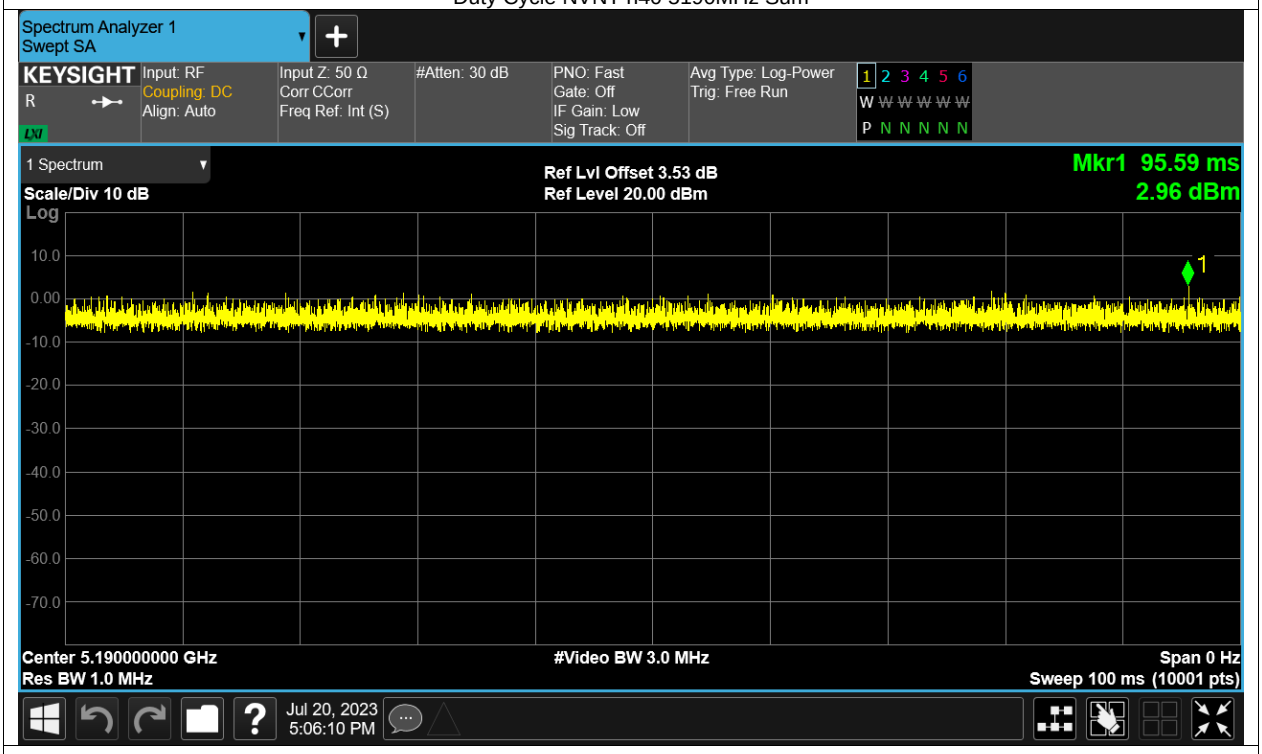
Duty Cycle NVNT n20 5200MHz Sum



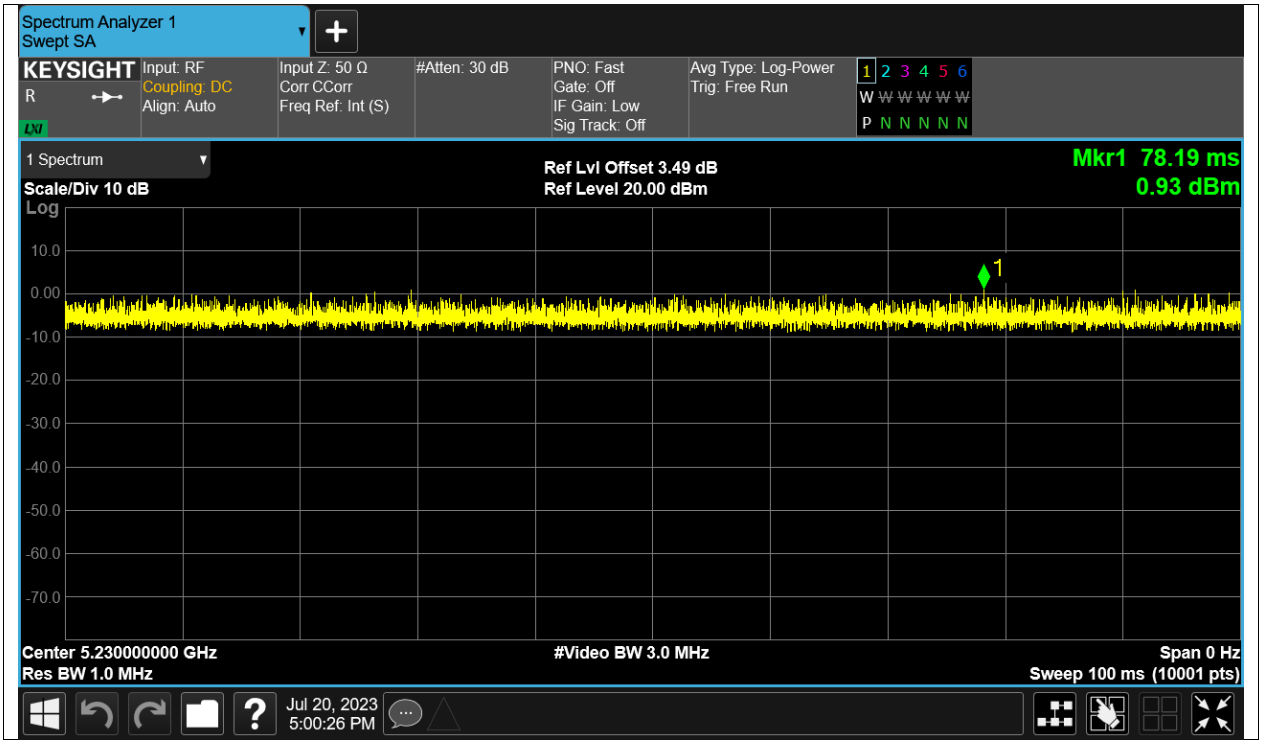
Duty Cycle NVNT n20 5240MHz Sum



Duty Cycle NVNT n40 5190MHz Sum



Duty Cycle NVNT n40 5230MHz Sum

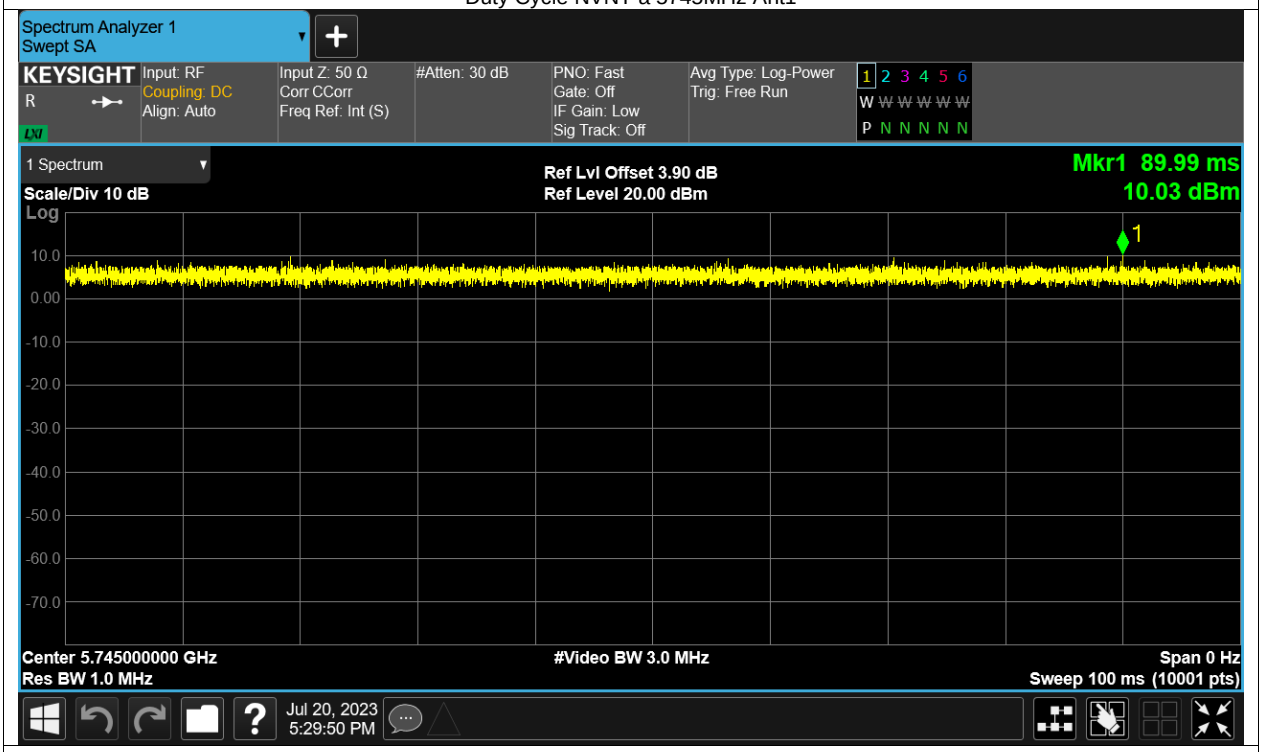

Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.49 dB
Ref Level 20.00 dBm
Mkr1 78.19 ms
0.93 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.230000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Jul 20, 2023
5:00:26 PM

5.8GWi-Fi:

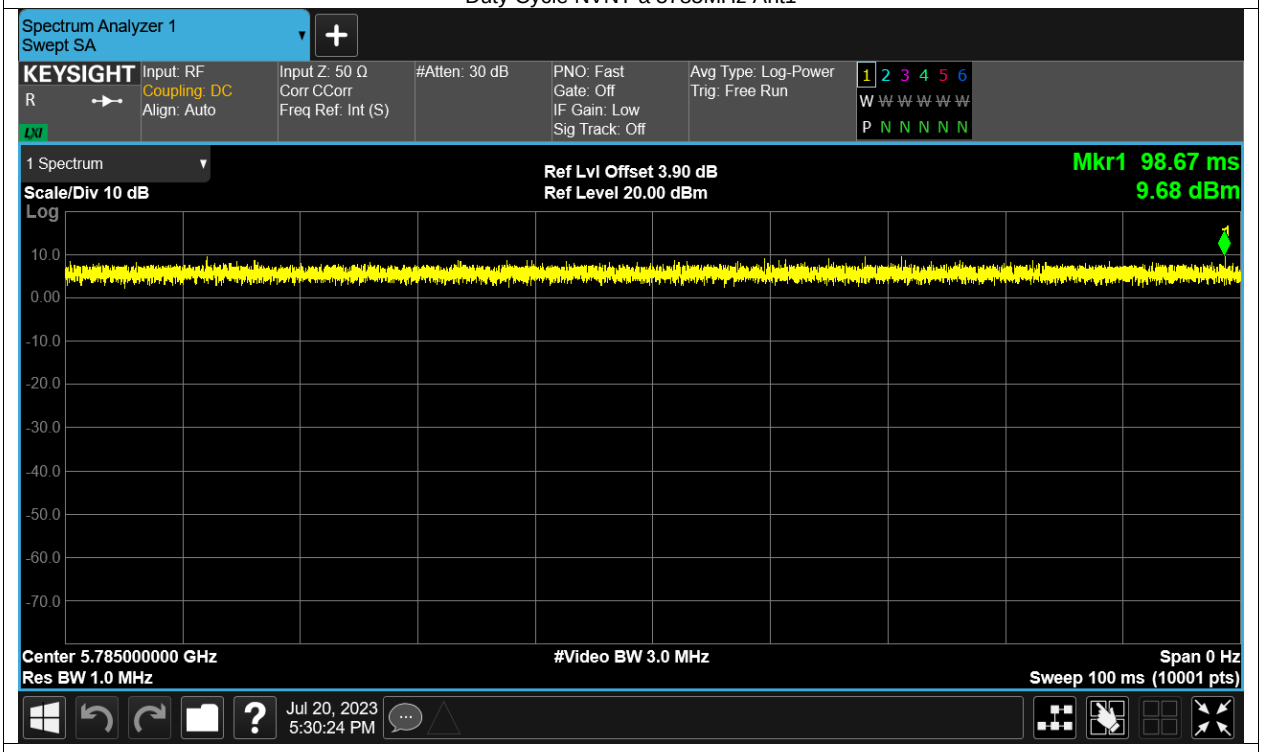
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	a	5745	Ant2	100	0
NVNT	a	5785	Ant2	100	0
NVNT	a	5825	Ant2	100	0
NVNT	ac20	5745	Sum	100	0
NVNT	ac20	5785	Sum	100	0
NVNT	ac20	5825	Sum	100	0
NVNT	ac40	5755	Sum	100	0
NVNT	ac40	5795	Sum	100	0
NVNT	ac80	5775	Sum	100	0
NVNT	ax20	5745	Sum	100	0
NVNT	ax20	5785	Sum	100	0
NVNT	ax20	5825	Sum	100	0
NVNT	ax40	5755	Sum	100	0
NVNT	ax40	5795	Sum	100	0
NVNT	ax80	5775	Sum	100	0
NVNT	n20	5745	Sum	100	0
NVNT	n20	5785	Sum	100	0
NVNT	n20	5825	Sum	100	0
NVNT	n40	5755	Sum	100	0
NVNT	n40	5795	Sum	100	0

Test Graphs

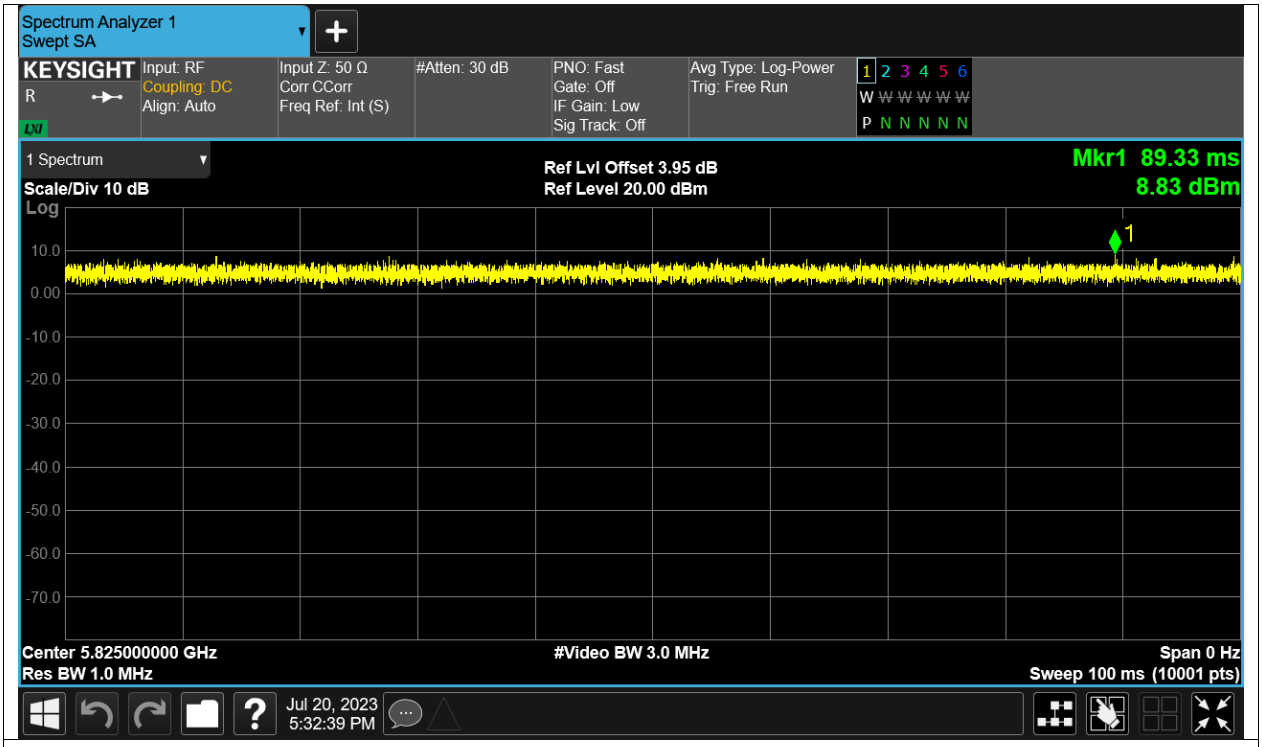
Duty Cycle NVNT a 5745MHz Ant1



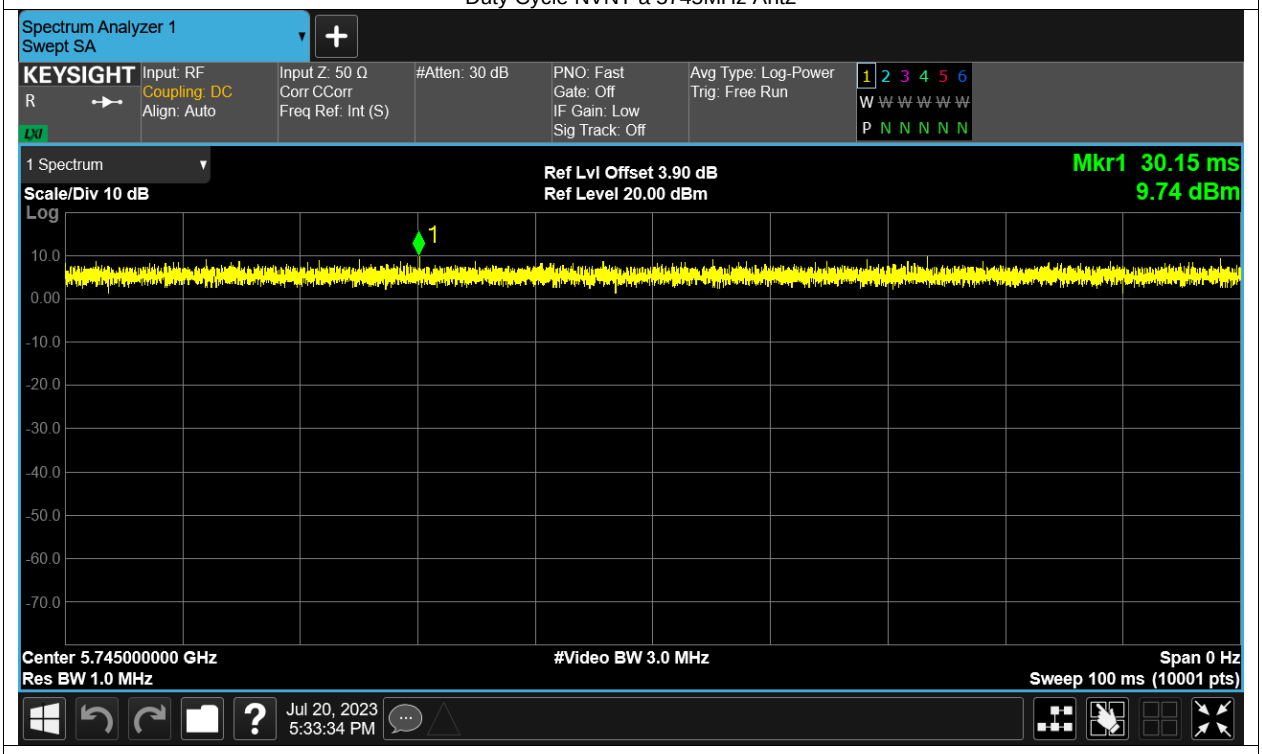
Duty Cycle NVNT a 5785MHz Ant1



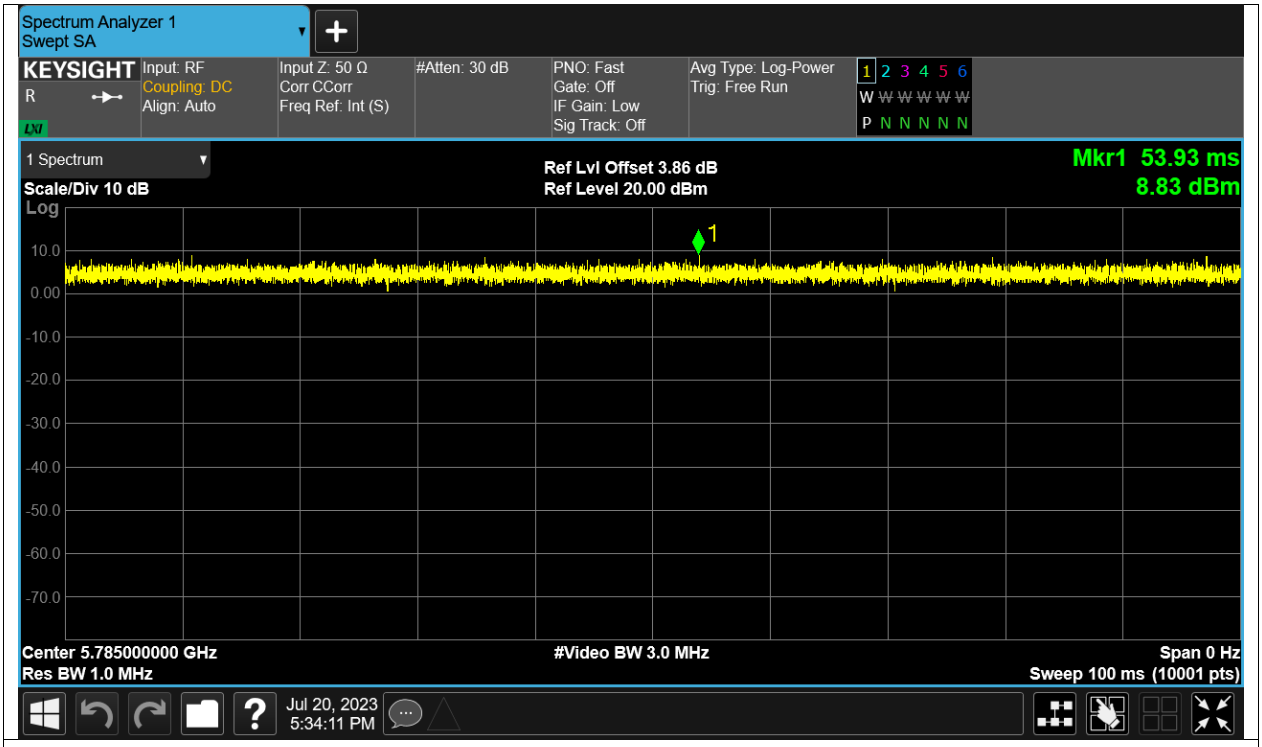
Duty Cycle NVNT a 5825MHz Ant1



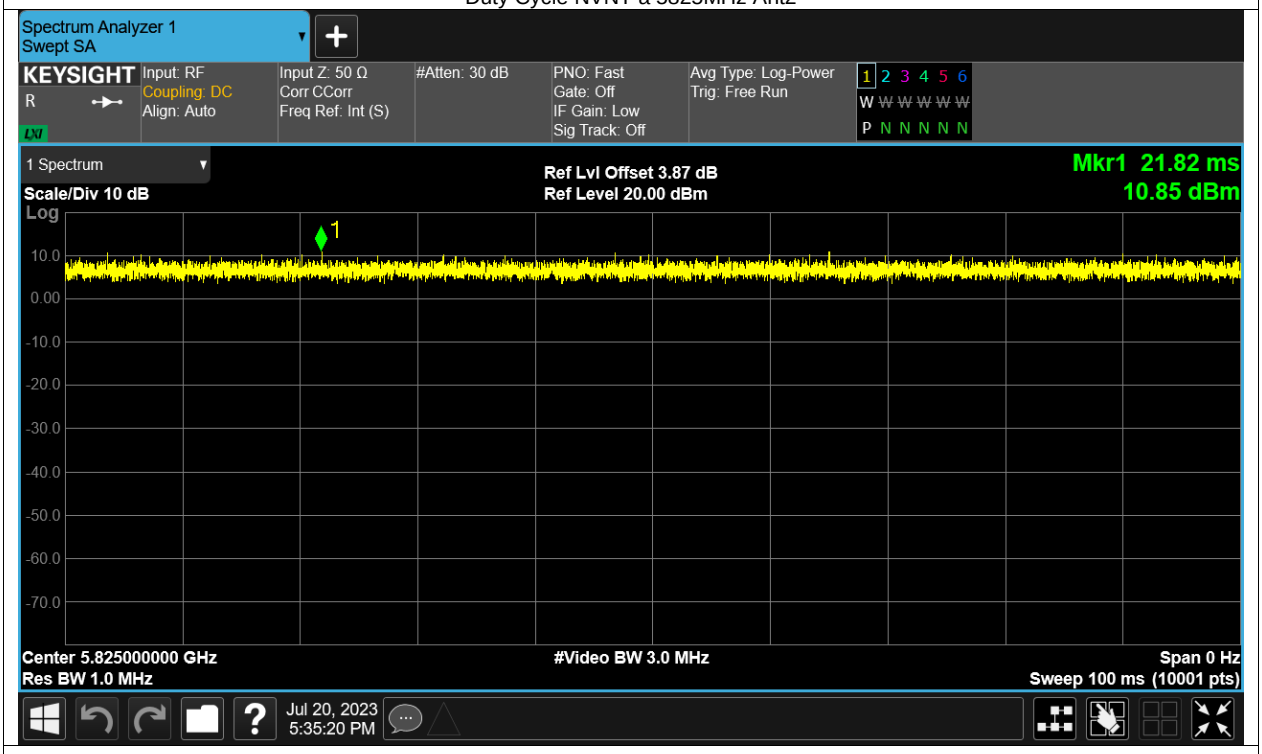
Duty Cycle NVNT a 5745MHz Ant2



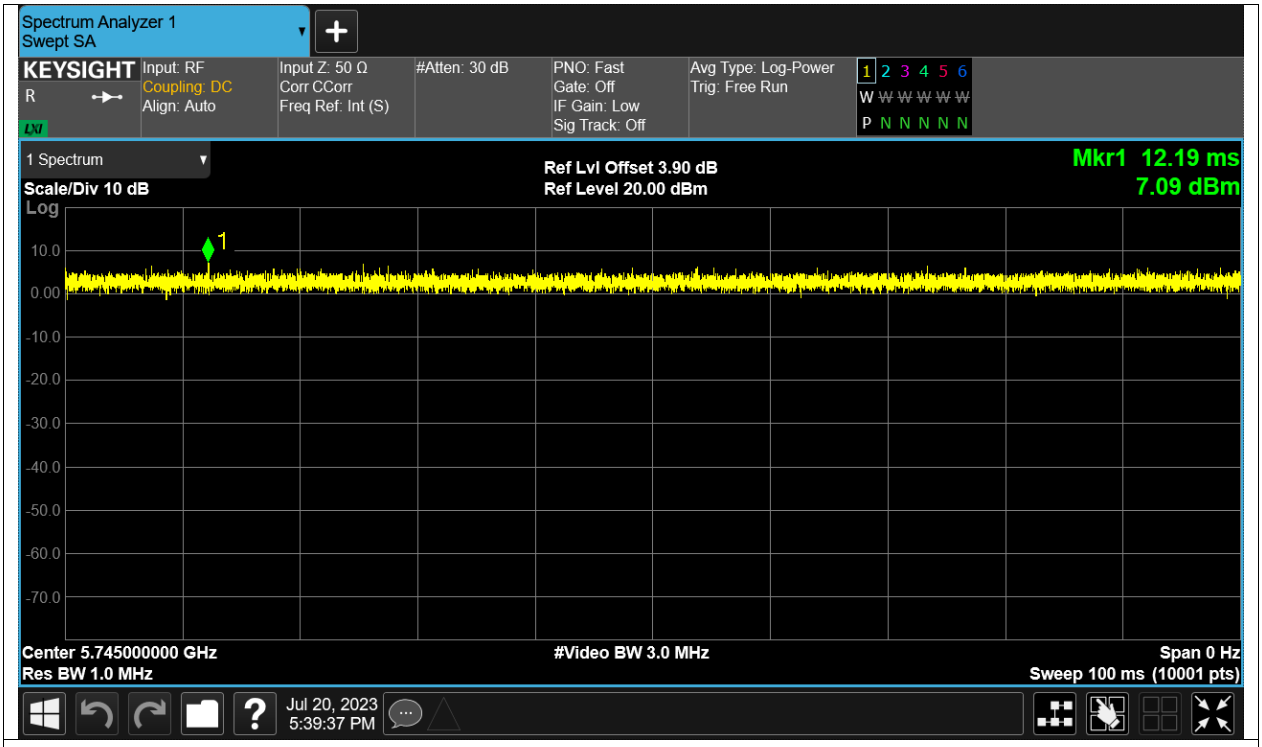
Duty Cycle NVNT a 5785MHz Ant2



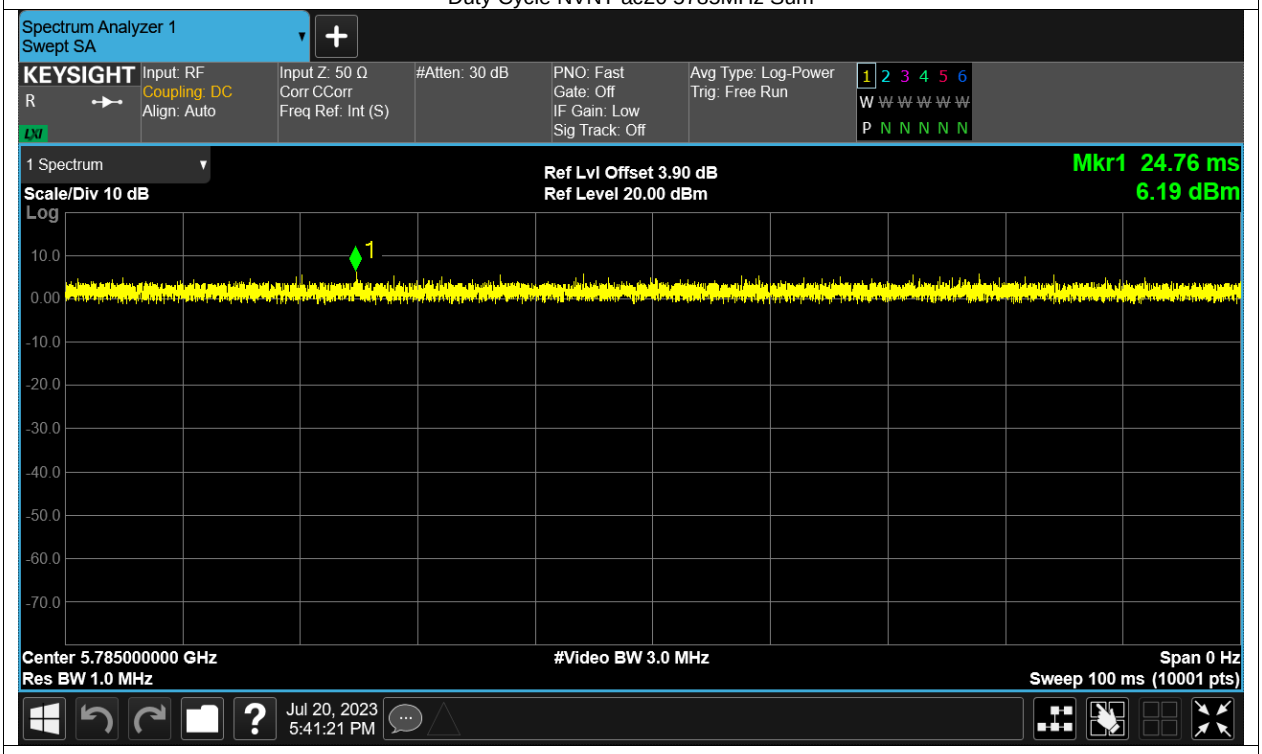
Duty Cycle NVNT a 5825MHz Ant2



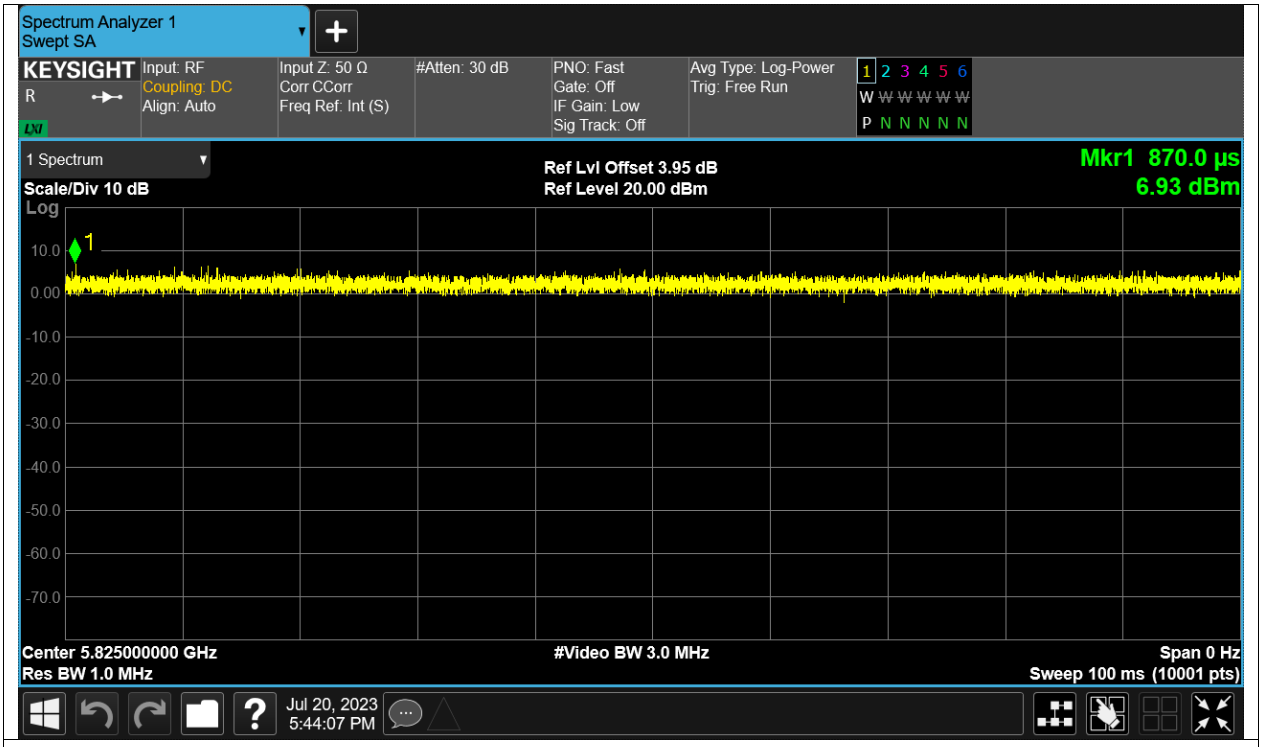
Duty Cycle NVNT ac20 5745MHz Sum



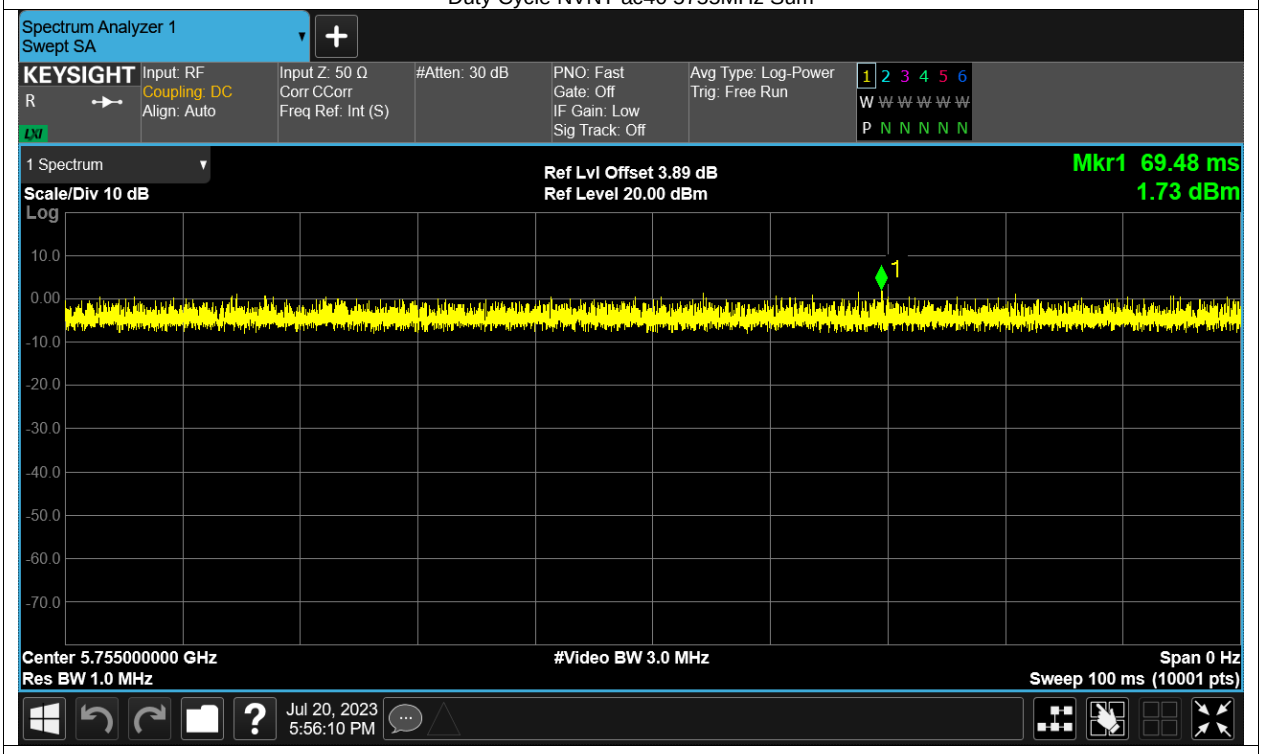
Duty Cycle NVNT ac20 5785MHz Sum



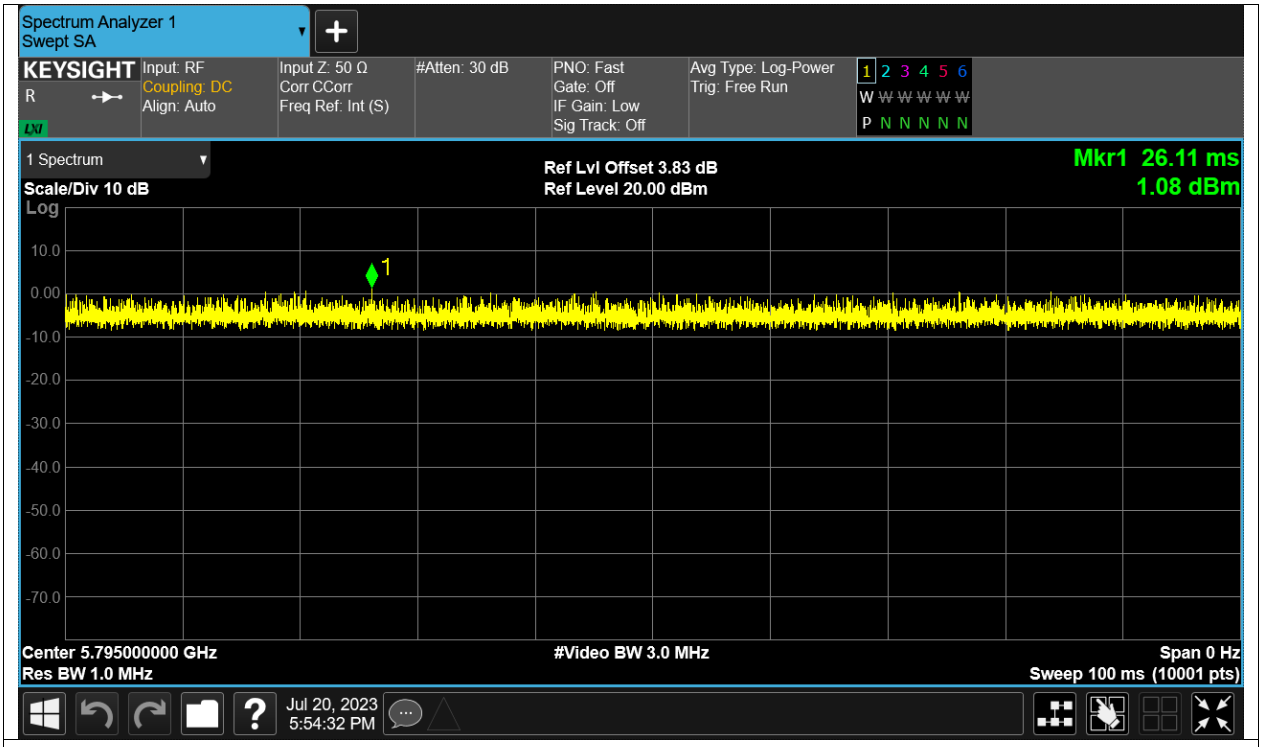
Duty Cycle NVNT ac20 5825MHz Sum



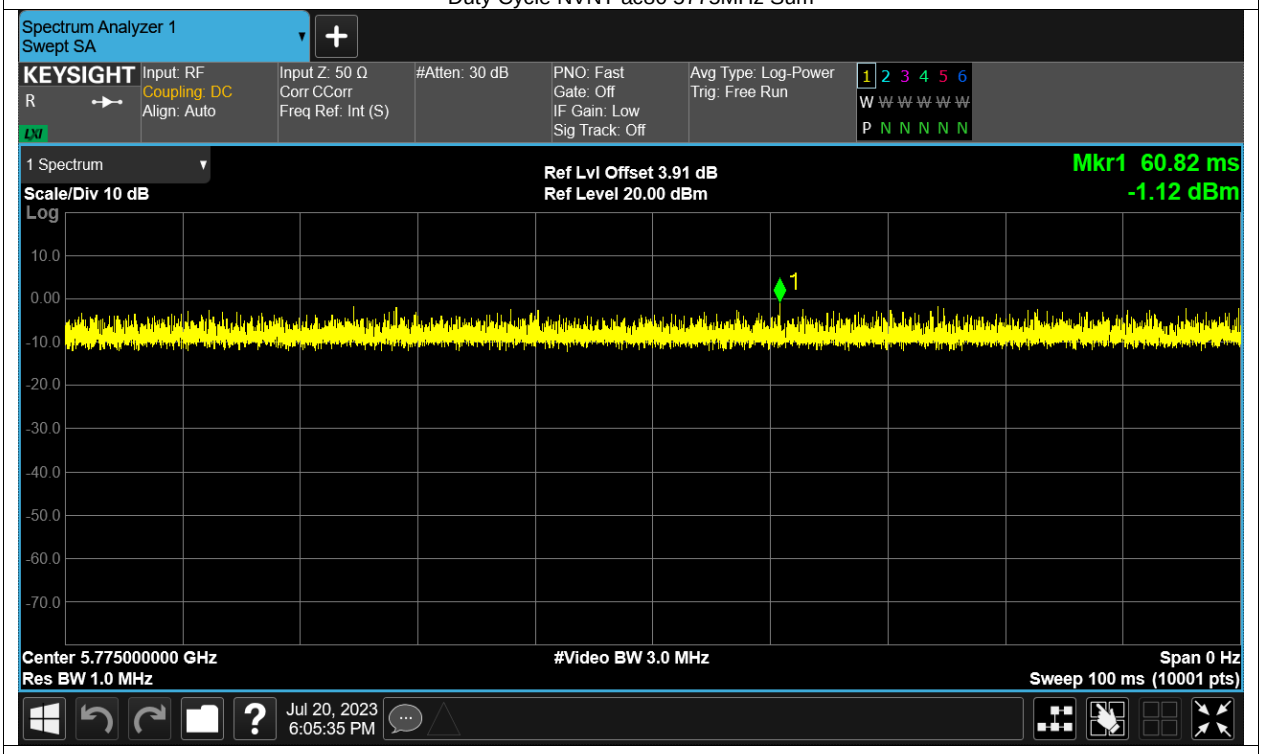
Duty Cycle NVNT ac40 5755MHz Sum



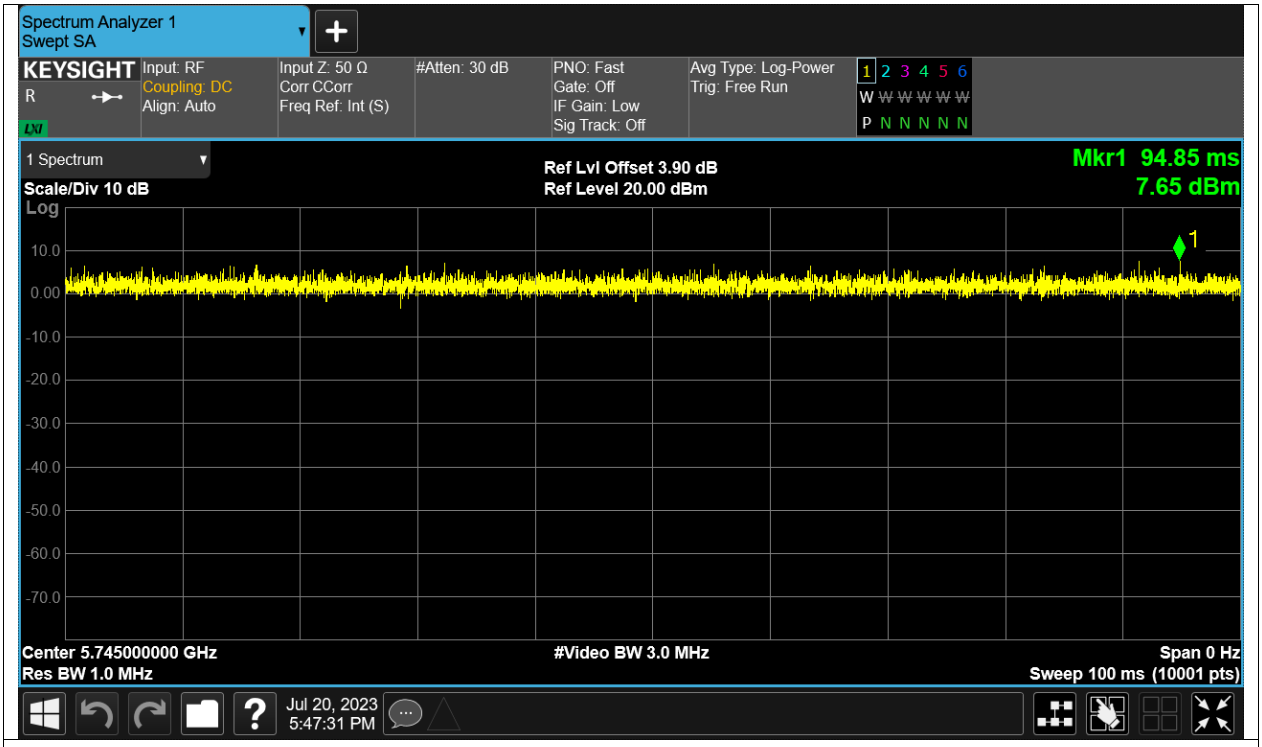
Duty Cycle NVNT ac40 5795MHz Sum



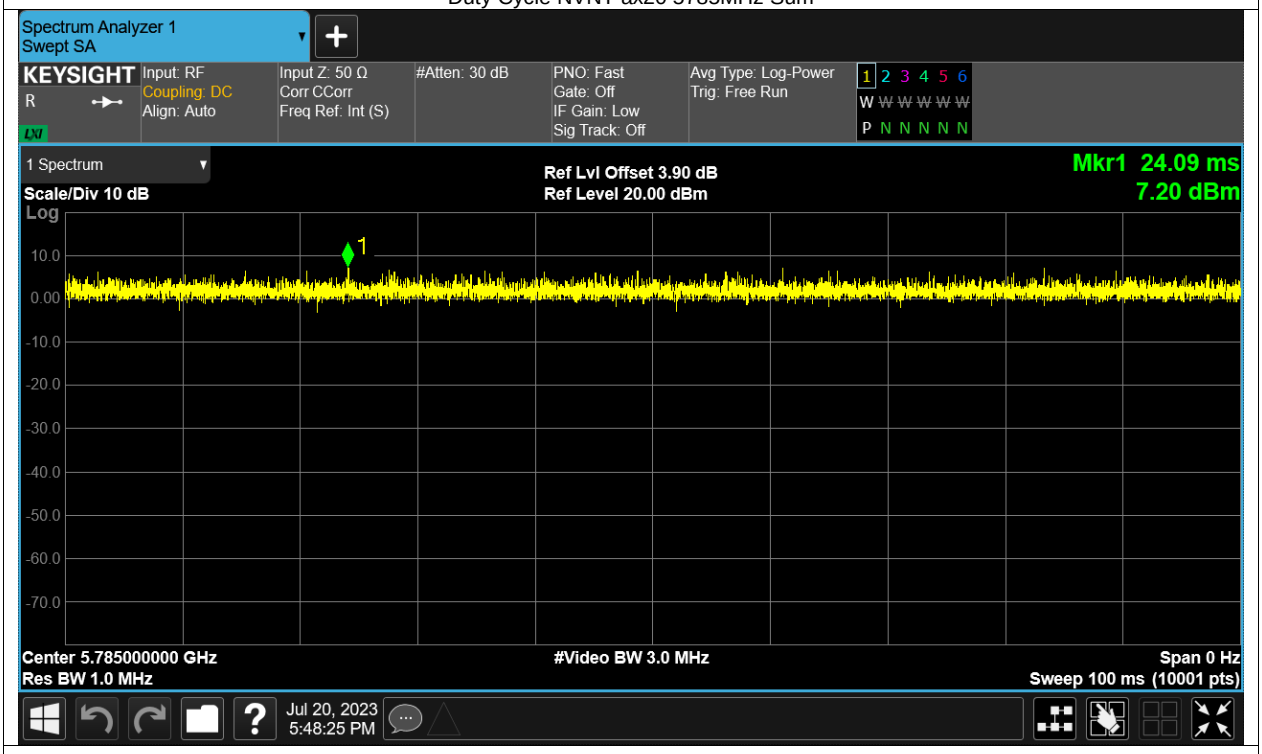
Duty Cycle NVNT ac80 5775MHz Sum



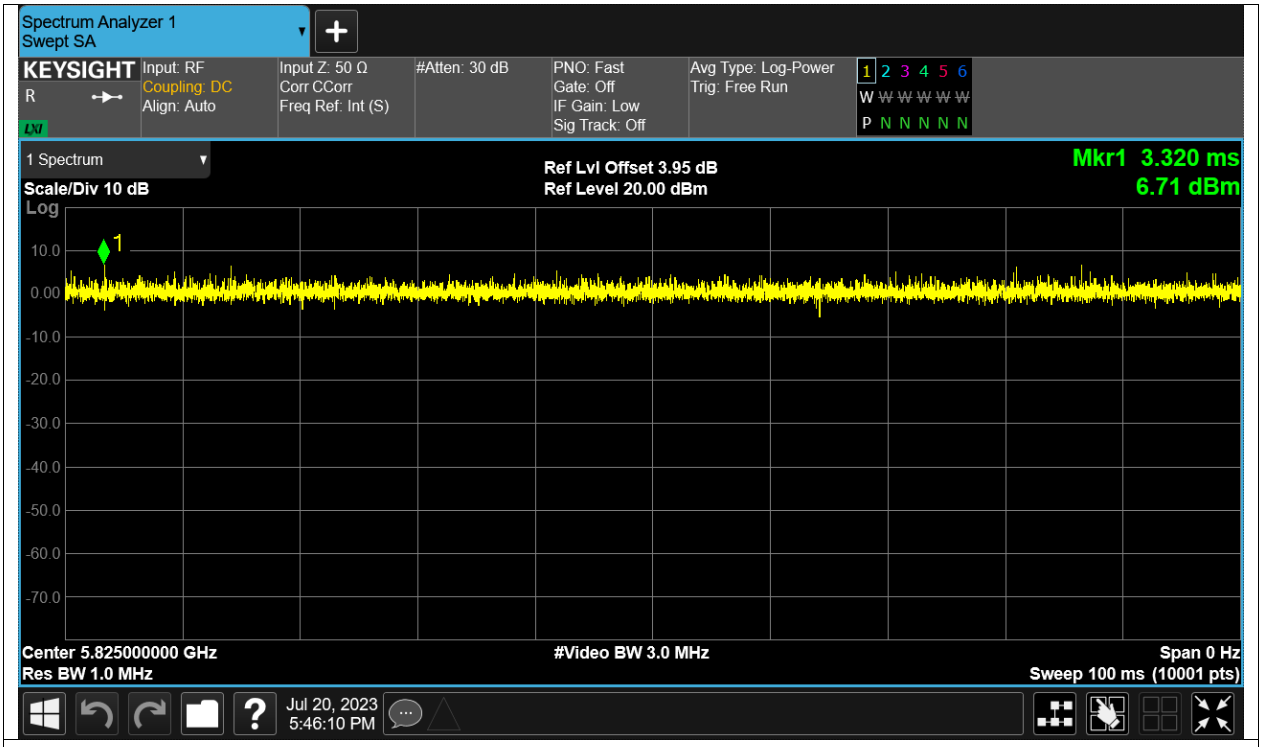
Duty Cycle NVNT ax20 5745MHz Sum



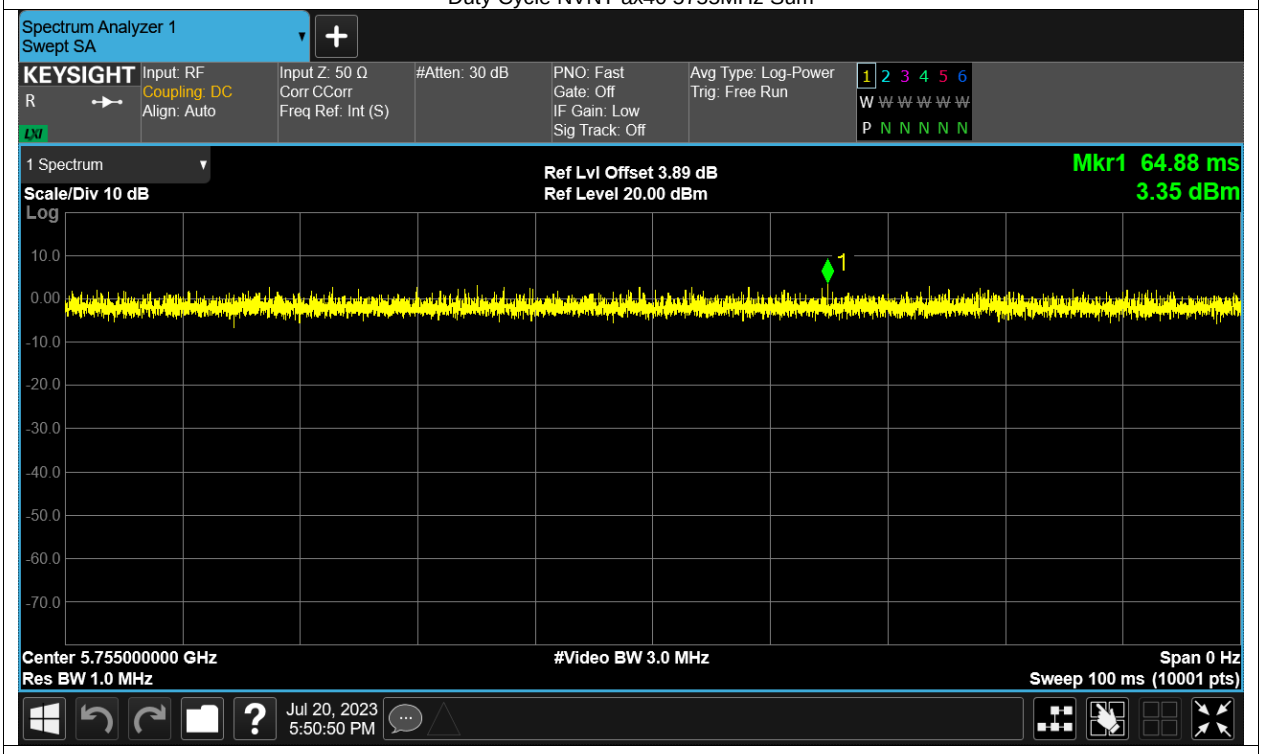
Duty Cycle NVNT ax20 5785MHz Sum



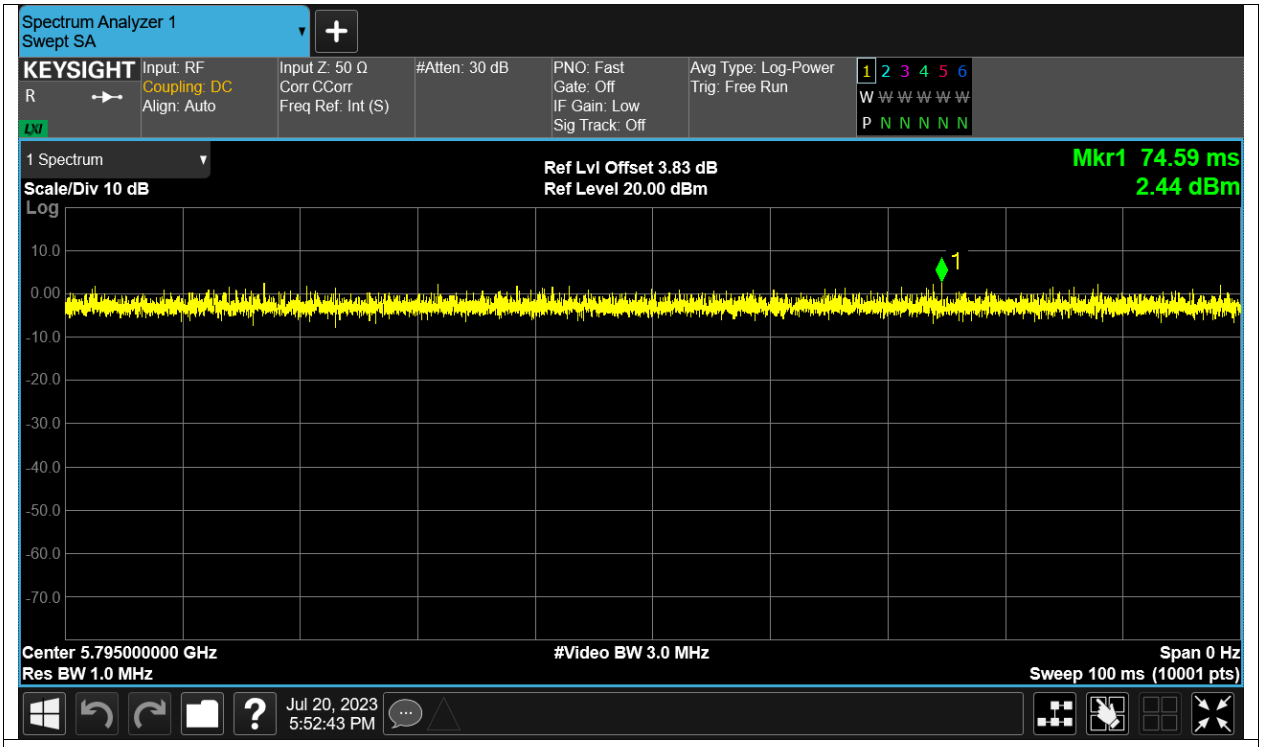
Duty Cycle NVNT ax20 5825MHz Sum



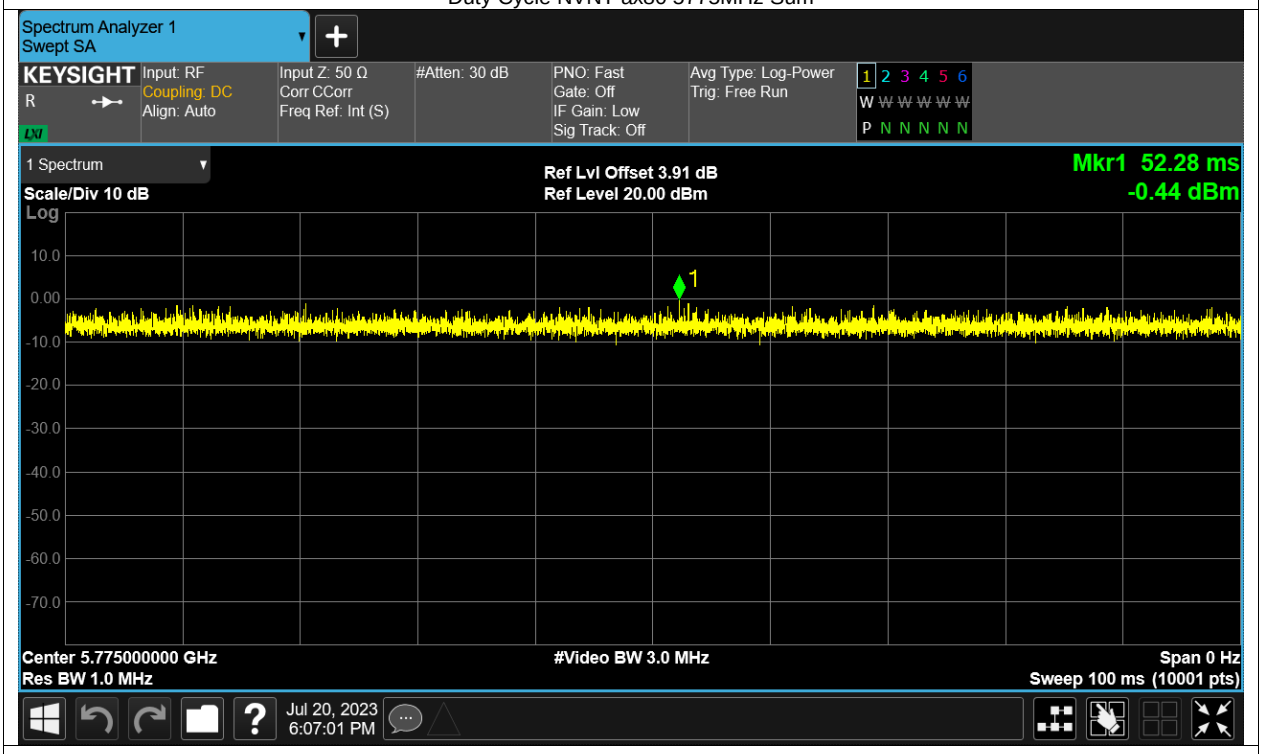
Duty Cycle NVNT ax40 5755MHz Sum



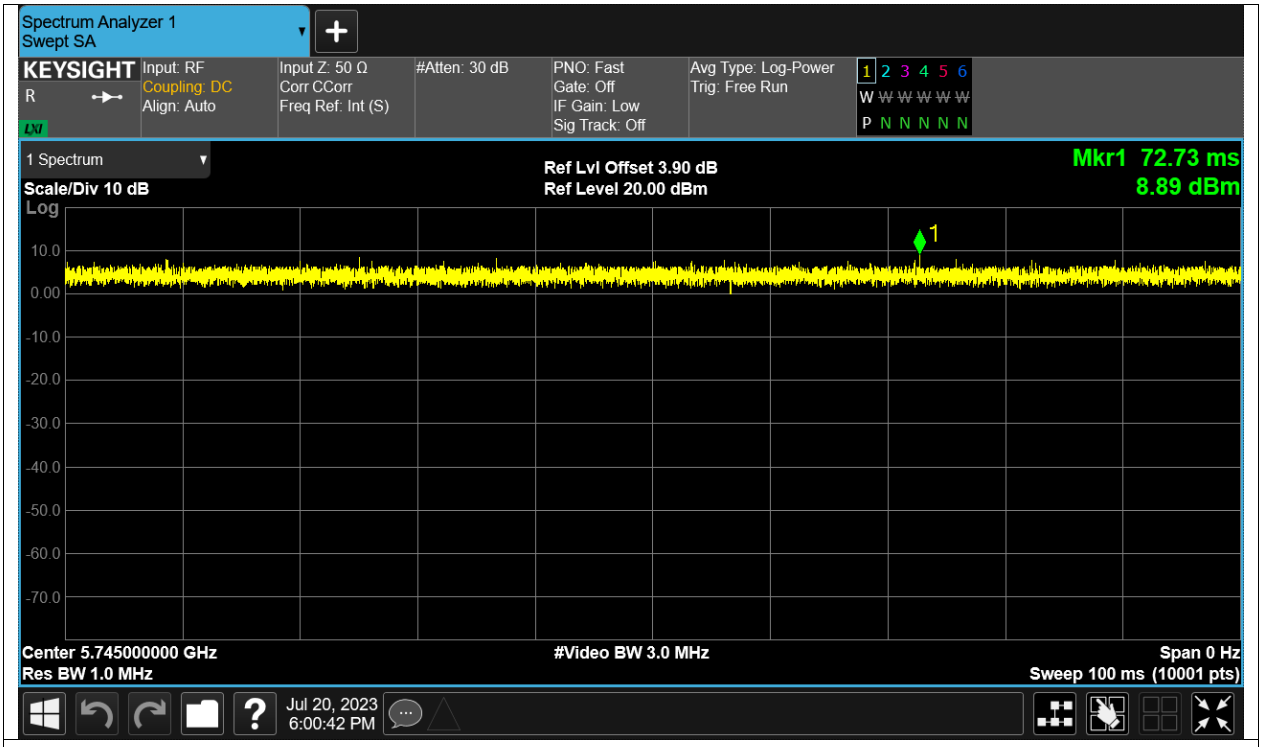
Duty Cycle NVNT ax40 5795MHz Sum



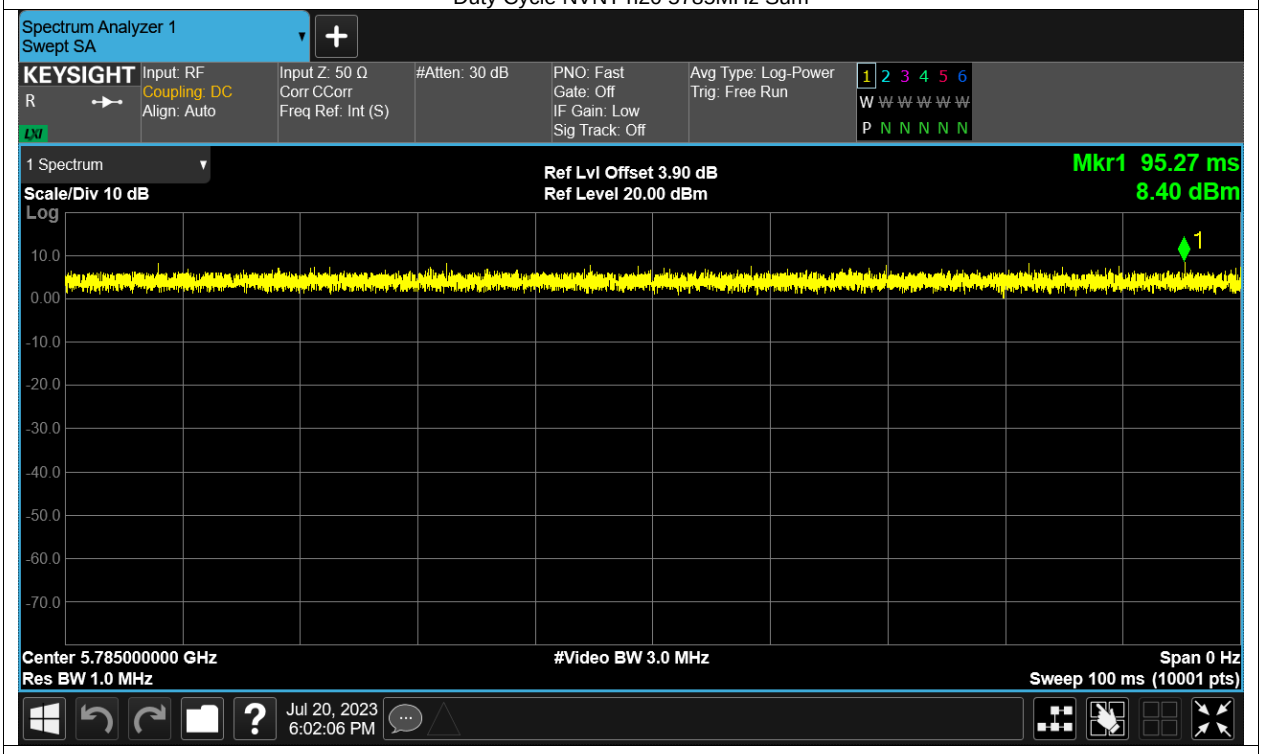
Duty Cycle NVNT ax80 5775MHz Sum



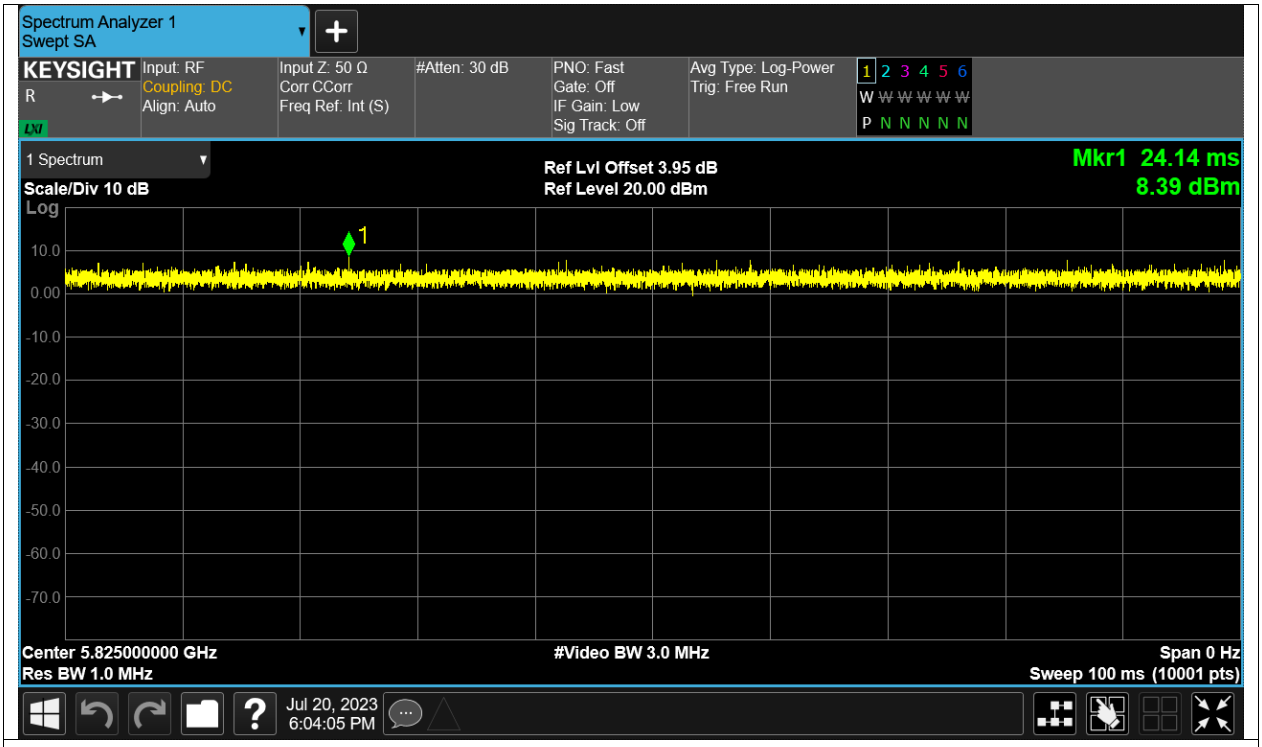
Duty Cycle NVNT n20 5745MHz Sum



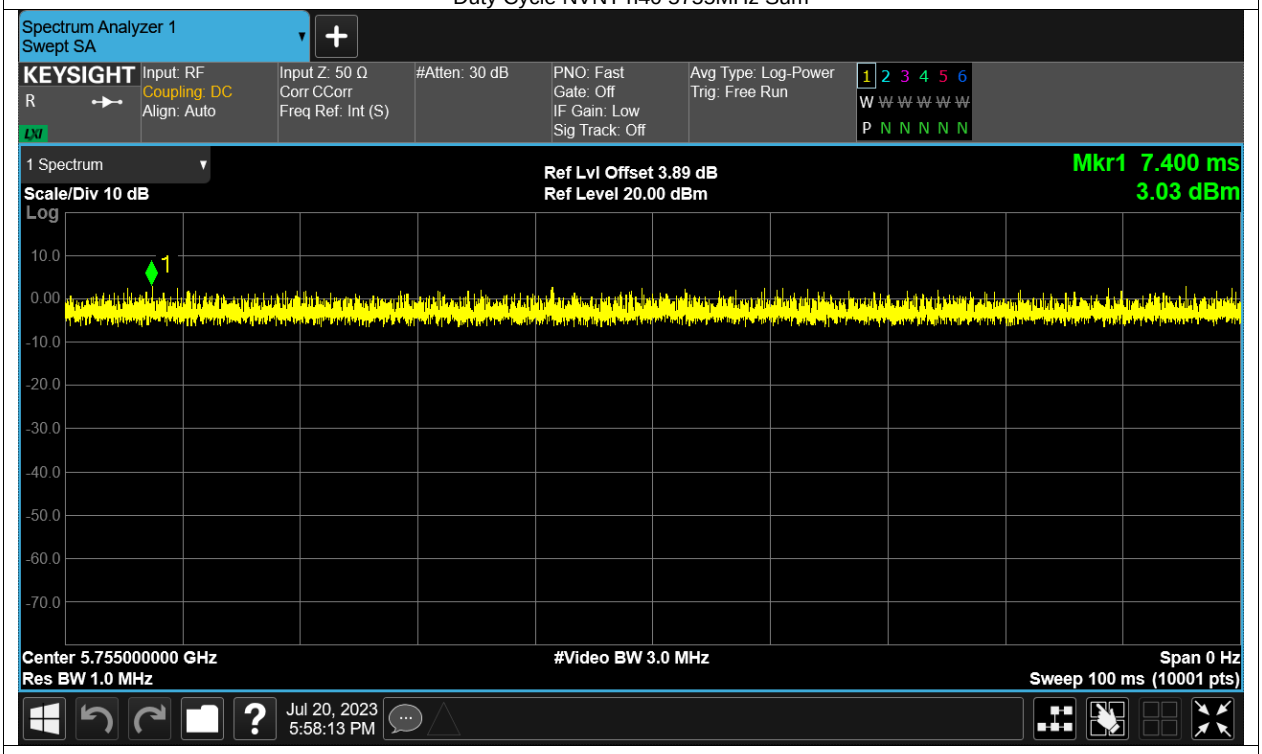
Duty Cycle NVNT n20 5785MHz Sum



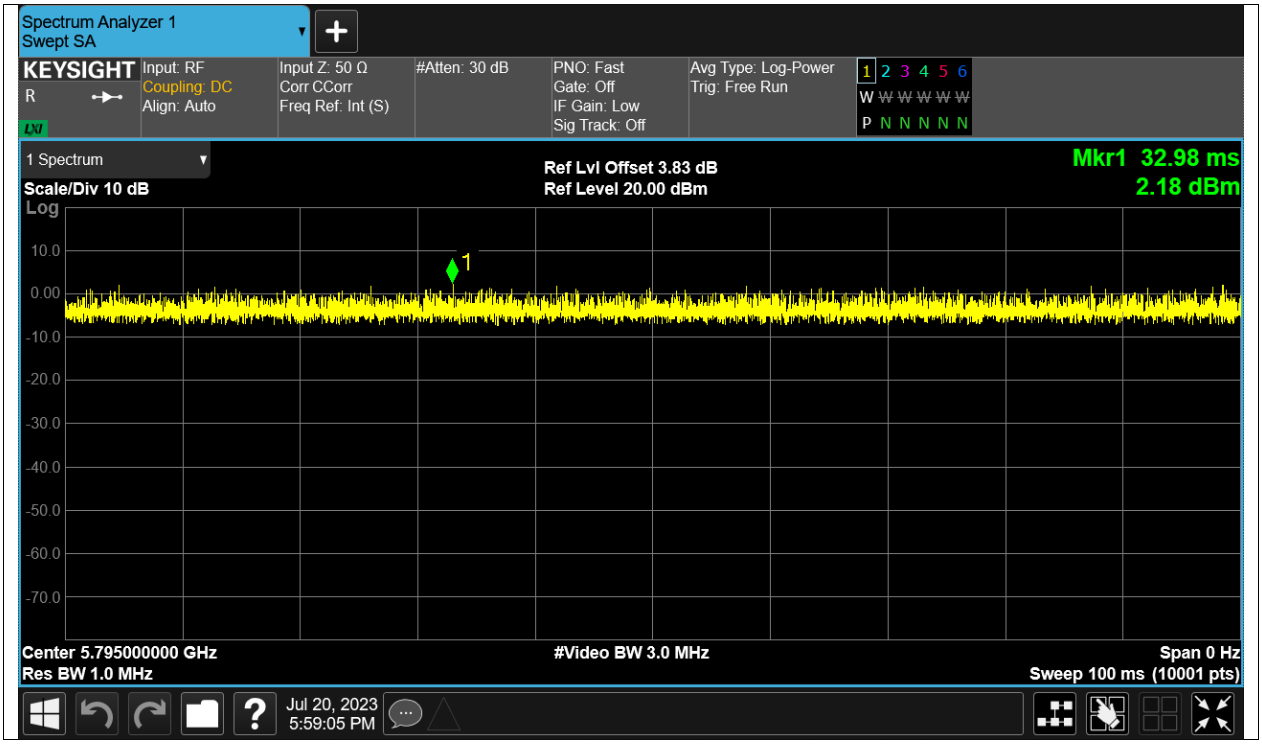
Duty Cycle NVNT n20 5825MHz Sum



Duty Cycle NVNT n40 5755MHz Sum



Duty Cycle NVNT n40 5795MHz Sum


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 30 dB
PNO: Fast
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 3.83 dB
Ref Level 20.00 dBm
Mkr1 32.98 ms
2.18 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.795000000 GHz
Res BW 1.0 MHz
#Video BW 3.0 MHz
Span 0 Hz
Sweep 100 ms (10001 pts)
Jul 20, 2023
5:59:05 PM

5.5 Maximum Conducted Output Power

5.2G Wi-Fi:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	12.51	0	12.51	24	Pass
NVNT	a	5200	Ant2	11.91	0	11.91	24	Pass
NVNT	a	5240	Ant2	12	0	12	24	Pass
NVNT	a	5180	Ant4	12.91	0	12.91	24	Pass
NVNT	a	5200	Ant4	13.06	0	13.06	24	Pass
NVNT	a	5240	Ant4	12.08	0	12.08	24	Pass
NVNT	ac20	5180	Ant2	11.5	0	11.5	24	Pass
NVNT	ac20	5180	Ant4	11.69	0	11.69	24	Pass
NVNT	ac20	5180	Sum	14.606	0	14.606	24	Pass
NVNT	ac20	5200	Ant2	11.69	0	11.69	24	Pass
NVNT	ac20	5200	Ant4	11.91	0	11.91	24	Pass
NVNT	ac20	5200	Sum	14.812	0	14.812	24	Pass
NVNT	ac20	5240	Ant2	11.13	0	11.13	24	Pass
NVNT	ac20	5240	Ant4	11.91	0	11.91	24	Pass
NVNT	ac20	5240	Sum	14.548	0	14.548	24	Pass
NVNT	ac40	5190	Ant2	10.72	0	10.72	24	Pass
NVNT	ac40	5190	Ant4	10.84	0	10.84	24	Pass
NVNT	ac40	5190	Sum	13.791	0	13.791	24	Pass
NVNT	ac40	5230	Ant2	10.46	0	10.46	24	Pass
NVNT	ac40	5230	Ant4	10.86	0	10.86	24	Pass
NVNT	ac40	5230	Sum	13.675	0	13.675	24	Pass
NVNT	ac80	5210	Ant2	9.93	0	9.93	24	Pass
NVNT	ac80	5210	Ant4	10.58	0	10.58	24	Pass
NVNT	ac80	5210	Sum	13.277	0	13.277	24	Pass
NVNT	ax20	5180	Ant2	10.57	0	10.57	24	Pass
NVNT	ax20	5180	Ant4	10.31	0	10.31	24	Pass
NVNT	ax20	5180	Sum	13.452	0	13.452	24	Pass
NVNT	ax20	5200	Ant2	9.93	0	9.93	24	Pass
NVNT	ax20	5200	Ant4	10.85	0	10.85	24	Pass
NVNT	ax20	5200	Sum	13.425	0	13.425	24	Pass
NVNT	ax20	5240	Ant2	9.41	0	9.41	24	Pass
NVNT	ax20	5240	Ant4	10.8	0	10.8	24	Pass
NVNT	ax20	5240	Sum	13.171	0	13.171	24	Pass
NVNT	ax40	5190	Ant2	9.66	0	9.66	24	Pass
NVNT	ax40	5190	Ant4	9.87	0	9.87	24	Pass
NVNT	ax40	5190	Sum	12.777	0	12.777	24	Pass

NVNT	ax40	5230	Ant2	9.55	0	9.55	24	Pass
NVNT	ax40	5230	Ant4	9.91	0	9.91	24	Pass
NVNT	ax40	5230	Sum	12.744	0	12.744	24	Pass
NVNT	ax80	5210	Ant2	9.15	0	9.15	24	Pass
NVNT	ax80	5210	Ant4	9.83	0	9.83	24	Pass
NVNT	ax80	5210	Sum	12.514	0	12.514	24	Pass
NVNT	n20	5180	Ant2	11.72	0	11.72	24	Pass
NVNT	n20	5180	Ant4	12.37	0	12.37	24	Pass
NVNT	n20	5180	Sum	15.067	0	15.067	24	Pass
NVNT	n20	5200	Ant2	11.01	0	11.01	24	Pass
NVNT	n20	5200	Ant4	12.1	0	12.1	24	Pass
NVNT	n20	5200	Sum	14.599	0	14.599	24	Pass
NVNT	n20	5240	Ant2	11.3	0	11.3	24	Pass
NVNT	n20	5240	Ant4	11.86	0	11.86	24	Pass
NVNT	n20	5240	Sum	14.599	0	14.599	24	Pass
NVNT	n40	5190	Ant2	11	0	11	24	Pass
NVNT	n40	5190	Ant4	11.96	0	11.96	24	Pass
NVNT	n40	5190	Sum	14.517	0	14.517	24	Pass
NVNT	n40	5230	Ant2	11.19	0	11.19	24	Pass
NVNT	n40	5230	Ant4	11.13	0	11.13	24	Pass
NVNT	n40	5230	Sum	14.17	0	14.17	24	Pass

5.8G Wi-Fi:

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant2	13.92	0	13.92	30	Pass
NVNT	a	5785	Ant2	14.33	0	14.33	30	Pass
NVNT	a	5825	Ant2	13.77	0	13.77	30	Pass
NVNT	a	5745	Ant4	13.89	0	13.89	30	Pass
NVNT	a	5785	Ant4	14.39	0	14.39	30	Pass
NVNT	a	5825	Ant4	14.93	0	14.93	30	Pass
NVNT	ac20	5745	Ant2	11.59	0	11.59	30	Pass
NVNT	ac20	5745	Ant4	11.15	0	11.15	30	Pass
NVNT	ac20	5745	Sum	14.386	0	14.386	30	Pass
NVNT	ac20	5785	Ant2	10.75	0	10.75	30	Pass
NVNT	ac20	5785	Ant4	12.64	0	12.64	30	Pass
NVNT	ac20	5785	Sum	14.807	0	14.807	30	Pass
NVNT	ac20	5825	Ant2	11.46	0	11.46	30	Pass
NVNT	ac20	5825	Ant4	11.62	0	11.62	30	Pass
NVNT	ac20	5825	Sum	14.551	0	14.551	30	Pass
NVNT	ac40	5755	Ant2	10.92	0	10.92	30	Pass
NVNT	ac40	5755	Ant4	10.9	0	10.9	30	Pass
NVNT	ac40	5755	Sum	13.92	0	13.92	30	Pass
NVNT	ac40	5795	Ant2	11.18	0	11.18	30	Pass
NVNT	ac40	5795	Ant4	10.79	0	10.79	30	Pass
NVNT	ac40	5795	Sum	14	0	14	30	Pass
NVNT	ac80	5775	Ant2	11.4	0	11.4	30	Pass
NVNT	ac80	5775	Ant4	10.98	0	10.98	30	Pass
NVNT	ac80	5775	Sum	14.205	0	14.205	30	Pass
NVNT	ax20	5745	Ant2	10.55	0	10.55	30	Pass
NVNT	ax20	5745	Ant4	10.19	0	10.19	30	Pass
NVNT	ax20	5745	Sum	13.384	0	13.384	30	Pass
NVNT	ax20	5785	Ant2	10.79	0	10.79	30	Pass
NVNT	ax20	5785	Ant4	10.58	0	10.58	30	Pass
NVNT	ax20	5785	Sum	13.697	0	13.697	30	Pass
NVNT	ax20	5825	Ant2	9.57	0	9.57	30	Pass
NVNT	ax20	5825	Ant4	10.96	0	10.96	30	Pass
NVNT	ax20	5825	Sum	13.331	0	13.331	30	Pass
NVNT	ax40	5755	Ant2	10.45	0	10.45	30	Pass
NVNT	ax40	5755	Ant4	10.42	0	10.42	30	Pass
NVNT	ax40	5755	Sum	13.445	0	13.445	30	Pass
NVNT	ax40	5795	Ant2	10.35	0	10.35	30	Pass
NVNT	ax40	5795	Ant4	10.3	0	10.3	30	Pass

NVNT	ax40	5795	Sum	13.335	0	13.335	30	Pass
NVNT	ax80	5775	Ant2	10.31	0	10.31	30	Pass
NVNT	ax80	5775	Ant4	9.63	0	9.63	30	Pass
NVNT	ax80	5775	Sum	12.994	0	12.994	30	Pass
NVNT	n20	5745	Ant2	13	0	13	39	Pass
NVNT	n20	5745	Ant4	12.59	0	12.59	39	Pass
NVNT	n20	5745	Sum	15.81	0	15.81	39	Pass
NVNT	n20	5785	Ant2	13.04	0	13.04	30	Pass
NVNT	n20	5785	Ant4	13.11	0	13.11	30	Pass
NVNT	n20	5785	Sum	16.085	0	16.085	30	Pass
NVNT	n20	5825	Ant2	12.87	0	12.87	30	Pass
NVNT	n20	5825	Ant4	13.43	0	13.43	30	Pass
NVNT	n20	5825	Sum	16.169	0	16.169	30	Pass
NVNT	n40	5755	Ant2	12.19	0	12.19	30	Pass
NVNT	n40	5755	Ant4	11.79	0	11.79	30	Pass
NVNT	n40	5755	Sum	15.005	0	15.005	30	Pass
NVNT	n40	5795	Ant2	12.38	0	12.38	30	Pass
NVNT	n40	5795	Ant4	11.7	0	11.7	30	Pass
NVNT	n40	5795	Sum	15.064	0	15.064	30	Pass

5.6 Unwanted Emissions

Below 1GHz:

Please refer to FCC ID: 2ADYY-CK9N, report JYTSZ-R12-2300059.

Above 1GHz

Band 1: 5150 MHz - 5250 MHz, 802.11a – ANT1						
Test channel: Lowest channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.86	15.74	52.60	74.00	21.40	Vertical
10360.00	53.62	4.88	58.50	68.20	9.70	Vertical
5150.00	35.98	15.74	51.72	74.00	22.28	Horizontal
10360.00	53.60	4.88	58.48	68.20	9.72	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	27.92	15.74	43.66	54.00	10.34	Vertical
5150.00	27.64	15.74	43.38	54.00	10.62	Horizontal
Test channel: Middle channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	41.23	4.71	45.94	68.20	22.26	Vertical
10400.00	45.18	4.71	49.89	68.20	18.31	Horizontal
Test channel: Highest channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.50	16.49	51.99	74.00	22.01	Vertical
10480.00	54.15	5.38	59.53	68.20	8.67	Vertical
5350.00	35.39	16.49	51.88	74.00	22.12	Horizontal
10480.00	52.14	5.38	57.52	68.20	10.68	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.83	16.49	43.32	54.00	10.68	Vertical
5350.00	26.91	16.49	43.40	54.00	10.60	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11a – ANT2

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	38.87	15.74	54.61	74.00	19.39	Vertical
10360.00	53.04	4.88	57.92	68.20	10.28	Vertical
5150.00	36.52	15.74	52.26	74.00	21.74	Horizontal
10360.00	52.11	4.88	56.99	68.20	11.21	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	27.67	15.74	43.41	54.00	10.59	Vertical
5150.00	27.20	15.74	42.94	54.00	11.06	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	40.75	4.71	45.46	68.20	22.74	Vertical
10400.00	45.35	4.71	50.06	68.20	18.14	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.87	16.49	52.36	74.00	21.64	Vertical
10480.00	54.24	5.38	59.62	68.20	8.58	Vertical
5350.00	34.79	16.49	51.28	74.00	22.72	Horizontal
10480.00	51.86	5.38	57.24	68.20	10.96	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.61	16.49	43.10	54.00	10.90	Vertical
5350.00	26.96	16.49	43.45	54.00	10.55	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	46.10	15.74	61.84	74.00	12.16	Vertical
10360.00	56.84	4.88	61.72	68.20	6.48	Vertical
5150.00	45.62	15.74	61.36	74.00	12.64	Horizontal
10360.00	58.13	4.88	63.01	68.20	5.19	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	32.06	15.74	47.80	54.00	6.20	Vertical
5150.00	29.98	15.74	45.72	54.00	8.28	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	40.89	4.71	45.60	68.20	22.60	Vertical
10400.00	45.18	4.71	49.89	68.20	18.31	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	34.95	16.49	51.44	74.00	22.56	Vertical
10480.00	52.34	5.38	57.72	68.20	10.48	Vertical
5350.00	35.64	16.49	52.13	74.00	21.87	Horizontal
10480.00	53.33	5.38	58.71	68.20	9.49	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.82	16.49	43.31	54.00	10.69	Vertical
5350.00	27.11	16.49	43.60	54.00	10.40	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11n-HT40 – MIMO						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	44.06	15.74	59.80	74.00	14.20	Vertical
10380.00	51.79	4.79	56.58	68.20	11.62	Vertical
5150.00	40.21	15.74	55.95	74.00	18.05	Horizontal
10380.00	53.97	4.79	58.76	68.20	9.44	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	31.43	15.74	47.17	54.00	6.83	Vertical
5150.00	28.72	15.74	44.46	54.00	9.54	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.01	16.49	52.50	74.00	21.50	Vertical
10460.00	51.30	5.21	56.51	68.20	11.69	Vertical
5350.00	35.61	16.49	52.10	74.00	21.90	Horizontal
10460.00	52.46	5.21	57.67	68.20	10.53	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.50	16.49	42.99	54.00	11.01	Vertical
5350.00	27.38	16.49	43.87	54.00	10.13	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	36.53	15.74	52.27	74.00	21.73	Vertical
10360.00	53.30	4.88	58.18	68.20	10.02	Vertical
5150.00	35.82	15.74	51.56	74.00	22.44	Horizontal
10360.00	53.64	4.88	58.52	68.20	9.68	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	27.99	15.74	43.73	54.00	10.27	Vertical
5150.00	27.16	15.74	42.90	54.00	11.10	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	41.38	4.71	46.09	68.20	22.11	Vertical
10400.00	45.67	4.71	50.38	68.20	17.82	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.02	16.49	51.51	74.00	22.49	Vertical
10480.00	54.46	5.38	59.84	68.20	8.36	Vertical
5350.00	35.75	16.49	52.24	74.00	21.76	Horizontal
10480.00	52.09	5.38	57.47	68.20	10.73	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.61	16.49	43.10	54.00	10.90	Vertical
5350.00	27.35	16.49	43.84	54.00	10.16	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT40 – MIMO						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	44.42	15.74	60.16	74.00	13.84	Vertical
10380.00	52.13	4.79	56.92	68.20	11.28	Vertical
5150.00	40.22	15.74	55.96	74.00	18.04	Horizontal
10380.00	54.02	4.79	58.81	68.20	9.39	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	31.66	15.74	47.40	54.00	6.60	Vertical
5150.00	28.32	15.74	44.06	54.00	9.94	Horizontal
Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.03	16.49	52.52	74.00	21.48	Vertical
10460.00	51.26	5.21	56.47	68.20	11.73	Vertical
5350.00	35.36	16.49	51.85	74.00	22.15	Horizontal
10460.00	52.41	5.21	57.62	68.20	10.58	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.74	16.49	43.23	54.00	10.77	Vertical
5350.00	27.06	16.49	43.55	54.00	10.45	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ac-VHT80 – MIMO						
Test channel: Middle channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	47.75	15.74	63.49	74.00	10.51	Vertical
5350.00	35.88	16.49	52.37	74.00	21.63	Vertical
10420.00	52.16	4.88	57.04	68.20	11.16	Vertical
5150.00	45.69	15.74	61.43	74.00	12.57	Horizontal
5350.00	34.47	16.49	50.96	74.00	23.04	Horizontal
10420.00	53.42	4.88	58.30	68.20	9.90	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	33.98	15.74	49.72	54.00	4.28	Vertical
5350.00	27.00	16.49	43.49	54.00	10.51	Vertical
5150.00	32.76	15.74	48.50	54.00	5.5	Horizontal
5350.00	26.93	16.49	43.42	54.00	10.58	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ax-HE20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	37.25	15.74	52.99	74.00	21.01	Vertical
10360.00	54.05	4.88	58.93	68.20	9.27	Vertical
5150.00	35.89	15.74	51.63	74.00	22.37	Horizontal
10360.00	53.33	4.88	58.21	68.20	9.99	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	28.09	15.74	43.83	54.00	10.17	Vertical
5150.00	27.89	15.74	43.63	54.00	10.37	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
10400.00	42.56	4.71	47.27	68.20	20.93	Vertical
10400.00	45.30	4.71	50.01	68.20	18.19	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	35.96	16.49	52.45	74.00	21.55	Vertical
10480.00	54.05	5.38	59.43	68.20	8.77	Vertical
5350.00	35.33	16.49	51.82	74.00	22.18	Horizontal
10480.00	52.16	5.38	57.54	68.20	10.66	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	26.51	16.49	43.00	54.00	11.00	Vertical
5350.00	26.62	16.49	43.11	54.00	10.89	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ax-HE40 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	44.26	15.74	60.00	74.00	14.00	Vertical
10380.00	51.74	4.79	56.53	68.20	11.67	Vertical
5150.00	40.62	15.74	56.36	74.00	17.64	Horizontal
10380.00	53.55	4.79	58.34	68.20	9.86	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	31.79	15.74	47.53	54.00	6.47	Vertical
5150.00	28.59	15.74	44.33	54.00	9.67	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	36.34	16.49	52.83	74.00	21.17	Vertical
10460.00	51.47	5.21	56.68	68.20	11.52	Vertical
5350.00	34.88	16.49	51.37	74.00	22.63	Horizontal
10460.00	52.25	5.21	57.46	68.20	10.74	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5350.00	27.21	16.49	43.70	54.00	10.30	Vertical
5350.00	27.24	16.49	43.73	54.00	10.27	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 1: 5150 MHz - 5250 MHz, 802.11ax-HE80 – MIMO						
Test channel: Middle channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	47.31	15.74	63.05	74.00	10.95	Vertical
5350.00	36.11	16.49	52.60	74.00	21.4	Vertical
10420.00	52.16	4.88	57.04	68.20	11.16	Vertical
5150.00	45.37	15.74	61.11	74.00	12.89	Horizontal
5350.00	34.90	16.49	51.39	74.00	22.61	Horizontal
10420.00	53.58	4.88	58.46	68.20	9.74	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5150.00	33.86	15.74	49.60	54.00	4.4	Vertical
5350.00	27.29	16.49	43.78	54.00	10.22	Vertical
5150.00	32.68	15.74	48.42	54.00	5.58	Horizontal
5350.00	26.67	16.49	43.16	54.00	10.84	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11a – ANT1

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.07	17.16	53.23	68.20	14.97	Vertical
5700.00	36.68	17.35	54.03	105.20	51.17	Vertical
5720.00	38.57	17.46	56.03	110.80	54.77	Vertical
5725.00	41.60	17.49	59.09	122.20	63.11	Vertical
11490.00	52.38	6.61	58.99	74.00	15.01	Vertical
5650.00	35.24	17.16	52.40	68.20	15.80	Horizontal
5700.00	35.38	17.35	52.73	105.20	52.47	Horizontal
5720.00	35.04	17.46	52.50	110.80	58.30	Horizontal
5725.00	40.29	17.49	57.78	122.20	64.42	Horizontal
11490.00	51.59	6.61	58.20	74.00	15.80	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	44.29	6.61	50.90	54.00	3.10	Vertical
11490.00	44.23	6.61	50.84	54.00	3.16	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	52.14	6.28	58.42	74.00	15.58	Vertical
11570.00	52.09	6.28	58.37	74.00	15.63	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	43.17	6.28	49.45	54.00	4.55	Vertical
11570.00	44.02	6.28	50.30	54.00	3.70	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	39.65	18.01	57.66	122.20	64.54	Vertical
5855.00	35.84	18.02	53.86	110.80	56.94	Vertical
5875.00	35.93	18.07	54.00	105.20	51.20	Vertical
5925.00	35.22	17.95	53.17	68.20	15.03	Vertical
11650.00	52.61	6.49	59.10	74.00	14.90	Vertical
5850.00	35.19	18.01	53.20	122.20	69.00	Horizontal
5855.00	34.42	18.02	52.44	110.80	58.36	Horizontal
5875.00	35.22	18.07	53.29	105.20	51.91	Horizontal
5925.00	35.71	17.95	53.66	68.20	14.54	Horizontal
11650.00	53.27	6.49	59.76	74.00	14.24	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	42.35	6.49	48.84	54.00	5.16	Vertical
11650.00	43.18	6.49	49.67	54.00	4.33	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11a – ANT2						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.96	17.16	53.12	68.20	15.08	Vertical
5700.00	35.57	17.35	52.92	105.20	52.28	Vertical
5720.00	41.35	17.46	58.81	110.80	51.99	Vertical
5725.00	48.64	17.49	66.13	122.20	56.07	Vertical
11490.00	51.79	6.61	58.40	74.00	15.60	Vertical
5650.00	35.35	17.16	52.51	68.20	15.69	Horizontal
5700.00	36.08	17.35	53.43	105.20	51.77	Horizontal
5720.00	36.78	17.46	54.24	110.80	56.56	Horizontal
5725.00	39.40	17.49	56.89	122.20	65.31	Horizontal
11490.00	51.42	6.61	58.03	74.00	15.97	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	44.34	6.61	50.95	54.00	3.05	Vertical
11490.00	44.31	6.61	50.92	54.00	3.08	Horizontal
Test channel: Middle channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	52.14	6.28	58.42	74.00	15.58	Vertical
11570.00	51.65	6.28	57.93	74.00	16.07	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	43.06	6.28	49.34	54.00	4.66	Vertical
11570.00	44.38	6.28	50.66	54.00	3.34	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	40.01	18.01	58.02	122.20	64.18	Vertical
5855.00	34.71	18.02	52.73	110.80	58.07	Vertical
5875.00	36.60	18.07	54.67	105.20	50.53	Vertical
5925.00	35.53	17.95	53.48	68.20	14.72	Vertical
11650.00	55.76	6.49	62.25	74.00	11.75	Vertical
5850.00	35.30	18.01	53.31	122.20	68.89	Horizontal
5855.00	36.71	18.02	54.73	110.80	56.07	Horizontal
5875.00	35.75	18.07	53.82	105.20	51.38	Horizontal
5925.00	35.14	17.95	53.09	68.20	15.11	Horizontal
11650.00	53.33	6.49	59.82	74.00	14.18	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	42.55	6.49	49.04	54.00	4.96	Vertical
11650.00	42.76	6.49	49.25	54.00	4.75	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11n-HT20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.61	17.16	52.77	68.20	15.43	Vertical
5700.00	36.22	17.35	53.57	105.20	51.63	Vertical
5720.00	44.44	17.46	61.90	110.80	48.90	Vertical
5725.00	53.89	17.49	71.38	122.20	50.82	Vertical
11490.00	52.91	6.61	59.52	74.00	14.48	Vertical
5650.00	35.23	17.16	52.39	68.20	15.81	Horizontal
5700.00	35.74	17.35	53.09	105.20	52.11	Horizontal
5720.00	39.55	17.46	57.01	110.80	53.79	Horizontal
5725.00	49.59	17.49	67.08	122.20	55.12	Horizontal
11490.00	51.96	6.61	58.57	74.00	15.43	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	44.25	6.61	50.86	54.00	3.14	Vertical
11490.00	44.21	6.61	50.82	54.00	3.18	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	52.04	6.28	58.32	74.00	15.68	Vertical
11570.00	51.67	6.28	57.95	74.00	16.05	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	43.34	6.28	49.62	54.00	4.38	Vertical
11570.00	43.72	6.28	50.00	54.00	4.00	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	40.29	18.01	58.30	122.20	63.90	Vertical
5855.00	42.99	18.02	61.01	110.80	49.79	Vertical
5875.00	35.32	18.07	53.39	105.20	51.81	Vertical
5925.00	35.62	17.95	53.57	68.20	14.63	Vertical
11650.00	51.22	6.49	57.71	74.00	16.29	Vertical
5850.00	41.26	18.01	59.27	122.20	62.93	Horizontal
5855.00	39.63	18.02	57.65	110.80	53.15	Horizontal
5875.00	34.82	18.07	52.89	105.20	52.31	Horizontal
5925.00	35.92	17.95	53.87	68.20	14.33	Horizontal
11650.00	51.46	6.49	57.95	74.00	16.05	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	43.59	6.49	50.08	54.00	3.92	Vertical
11650.00	41.68	6.49	48.17	54.00	5.83	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11n-HT40 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.09	17.16	52.25	68.20	15.95	Vertical
5700.00	39.16	17.35	56.51	105.20	48.69	Vertical
5720.00	47.36	17.46	64.82	110.80	45.98	Vertical
5725.00	47.94	17.49	65.43	122.20	56.77	Vertical
11510.00	54.57	6.60	61.17	74.00	12.83	Vertical
5650.00	35.90	17.16	53.06	68.20	15.14	Horizontal
5700.00	35.66	17.35	53.01	105.20	52.19	Horizontal
5720.00	45.02	17.46	62.48	110.80	48.32	Horizontal
5725.00	44.60	17.49	62.09	122.20	60.11	Horizontal
11510.00	52.22	6.60	58.82	74.00	15.18	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11510.00	41.57	6.60	48.17	54.00	5.83	Vertical
11510.00	41.41	6.60	48.01	54.00	5.99	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	39.40	18.01	57.41	122.20	64.79	Vertical
5855.00	35.38	18.02	53.40	110.80	57.40	Vertical
5875.00	35.60	18.07	53.67	105.20	51.53	Vertical
5925.00	35.72	17.95	53.67	68.20	14.53	Vertical
11590.00	54.80	6.17	60.97	74.00	13.03	Vertical
5850.00	35.42	18.01	53.43	122.20	68.77	Horizontal
5855.00	35.27	18.02	53.29	110.80	57.51	Horizontal
5875.00	34.32	18.07	52.39	105.20	52.81	Horizontal
5925.00	34.62	17.95	52.57	68.20	15.63	Horizontal
11590.00	53.86	6.17	60.03	74.00	13.97	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11590.00	41.20	6.17	47.37	54.00	6.63	Vertical
11590.00	43.19	6.17	49.36	54.00	4.64	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 8802.11ac-VHT20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.66	17.16	52.82	68.20	15.38	Vertical
5700.00	36.19	17.35	53.54	105.20	51.66	Vertical
5720.00	39.04	17.46	56.50	110.80	54.30	Vertical
5725.00	41.36	17.49	58.85	122.20	63.35	Vertical
11490.00	52.09	6.61	58.70	74.00	15.30	Vertical
5650.00	34.96	17.16	52.12	68.20	16.08	Horizontal
5700.00	35.32	17.35	52.67	105.20	52.53	Horizontal
5720.00	35.12	17.46	52.58	110.80	58.22	Horizontal
5725.00	40.21	17.49	57.70	122.20	64.50	Horizontal
11490.00	51.93	6.61	58.54	74.00	15.46	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	44.68	6.61	51.29	54.00	2.71	Vertical
11490.00	44.78	6.61	51.39	54.00	2.61	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	52.45	6.28	58.73	74.00	15.27	Vertical
11570.00	51.76	6.28	58.04	74.00	15.96	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	42.83	6.28	49.11	54.00	4.89	Vertical
11570.00	43.54	6.28	49.82	54.00	4.18	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	39.94	18.01	57.95	122.20	64.25	Vertical
5855.00	35.96	18.02	53.98	110.80	56.82	Vertical
5875.00	35.93	18.07	54.00	105.20	51.20	Vertical
5925.00	35.53	17.95	53.48	68.20	14.72	Vertical
11650.00	52.39	6.49	58.88	74.00	15.12	Vertical
5850.00	34.97	18.01	52.98	122.20	69.22	Horizontal
5855.00	34.56	18.02	52.58	110.80	58.22	Horizontal
5875.00	35.07	18.07	53.14	105.20	52.06	Horizontal
5925.00	35.62	17.95	53.57	68.20	14.63	Horizontal
11650.00	53.54	6.49	60.03	74.00	13.97	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	42.52	6.49	49.01	54.00	4.99	Vertical
11650.00	43.64	6.49	50.13	54.00	3.87	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT40 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.57	17.16	52.73	68.20	15.47	Vertical
5700.00	38.88	17.35	56.23	105.20	48.97	Vertical
5720.00	46.89	17.46	64.35	110.80	46.45	Vertical
5725.00	48.00	17.49	65.49	122.20	56.71	Vertical
11510.00	54.32	6.60	60.92	74.00	13.08	Vertical
5650.00	35.75	17.16	52.91	68.20	15.29	Horizontal
5700.00	35.91	17.35	53.26	105.20	51.94	Horizontal
5720.00	45.36	17.46	62.82	110.80	47.98	Horizontal
5725.00	44.27	17.49	61.76	122.20	60.44	Horizontal
11510.00	52.66	6.60	59.26	74.00	14.74	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11510.00	41.08	6.60	47.68	54.00	6.32	Vertical
11510.00	41.23	6.60	47.83	54.00	6.17	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	38.93	18.01	56.94	122.20	65.26	Vertical
5855.00	35.13	18.02	53.15	110.80	57.65	Vertical
5875.00	35.65	18.07	53.72	105.20	51.48	Vertical
5925.00	35.42	17.95	53.37	68.20	14.83	Vertical
11590.00	55.07	6.17	61.24	74.00	12.76	Vertical
5850.00	35.04	18.01	53.05	122.20	69.15	Horizontal
5855.00	35.26	18.02	53.28	110.80	57.52	Horizontal
5875.00	34.72	18.07	52.79	105.20	52.41	Horizontal
5925.00	34.98	17.95	52.93	68.20	15.27	Horizontal
11590.00	54.27	6.17	60.44	74.00	13.56	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11590.00	41.63	6.17	47.80	54.00	6.20	Vertical
11590.00	42.78	6.17	48.95	54.00	5.05	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11ac-VHT80 – MIMO						
Test channel: Lowest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.2	17.16	53.36	68.20	14.84	Vertical
5700.00	46.1	17.35	63.45	105.20	41.75	Vertical
5720.00	47.94	17.46	65.40	110.80	45.40	Vertical
5725.00	43.47	17.49	60.96	122.20	61.24	Vertical
5850.00	48.39	18.01	66.40	122.20	55.80	Vertical
5855.00	42.18	18.02	60.20	110.80	50.60	Vertical
5875.00	38.23	18.07	56.30	105.20	48.90	Vertical
5925.00	35.33	17.95	53.28	68.20	14.92	Vertical
11550.00	52.35	6.39	58.74	74.00	15.26	Vertical
5650.00	35.93	17.16	53.09	68.20	15.11	Horizontal
5700.00	38.92	17.35	56.27	105.20	48.93	Horizontal
5720.00	42.27	17.46	59.73	110.80	51.07	Horizontal
5725.00	44.79	17.49	62.28	122.20	59.92	Horizontal
5850.00	41.56	18.01	59.57	122.20	62.63	Horizontal
5855.00	38.95	18.02	56.97	110.80	53.83	Horizontal
5875.00	35.82	18.07	53.89	105.20	51.31	Horizontal
5925.00	35.21	17.95	53.16	68.20	15.04	Horizontal
11550.00	53.27	6.39	59.66	74.00	14.34	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11550.00	41.08	6.39	47.47	54.00	6.53	Vertical
11550.00	40.85	6.39	47.24	54.00	6.76	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11ax-HE20 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.23	17.16	53.39	68.20	14.81	Vertical
5700.00	36.44	17.35	53.79	105.20	51.41	Vertical
5720.00	38.47	17.46	55.93	110.80	54.87	Vertical
5725.00	41.92	17.49	59.41	122.20	62.79	Vertical
11490.00	52.52	6.61	59.13	74.00	14.87	Vertical
5650.00	35.55	17.16	52.71	68.20	15.49	Horizontal
5700.00	35.62	17.35	52.97	105.20	52.23	Horizontal
5720.00	34.54	17.46	52.00	110.80	58.80	Horizontal
5725.00	39.98	17.49	57.47	122.20	64.73	Horizontal
11490.00	51.25	6.61	57.86	74.00	16.14	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11490.00	44.59	6.61	51.20	54.00	2.80	Vertical
11490.00	44.81	6.61	51.42	54.00	2.58	Horizontal

Test channel: Middle channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	51.68	6.28	57.96	74.00	16.04	Vertical
11570.00	51.84	6.28	58.12	74.00	15.88	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11570.00	43.06	6.28	49.34	54.00	4.66	Vertical
11570.00	44.32	6.28	50.60	54.00	3.40	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Test channel: Highest channel						
Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	39.58	18.01	57.59	122.20	64.61	Vertical
5855.00	35.43	18.02	53.45	110.80	57.35	Vertical
5875.00	35.47	18.07	53.54	105.20	51.66	Vertical
5925.00	35.38	17.95	53.33	68.20	14.87	Vertical
11650.00	52.16	6.49	58.65	74.00	15.35	Vertical
5850.00	34.79	18.01	52.80	122.20	69.40	Horizontal
5855.00	34.37	18.02	52.39	110.80	58.41	Horizontal
5875.00	34.93	18.07	53.00	105.20	52.20	Horizontal
5925.00	35.36	17.95	53.31	68.20	14.89	Horizontal
11650.00	52.84	6.49	59.33	74.00	14.67	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11650.00	42.60	6.49	49.09	54.00	4.91	Vertical
11650.00	43.18	6.49	49.67	54.00	4.33	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11ax-HE40 – MIMO

Test channel: Lowest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	35.58	17.16	52.74	68.20	15.46	Vertical
5700.00	38.69	17.35	56.04	105.20	49.16	Vertical
5720.00	46.87	17.46	64.33	110.80	46.47	Vertical
5725.00	48.38	17.49	65.87	122.20	56.33	Vertical
11510.00	54.63	6.60	61.23	74.00	12.77	Vertical
5650.00	35.76	17.16	52.92	68.20	15.28	Horizontal
5700.00	36.26	17.35	53.61	105.20	51.59	Horizontal
5720.00	44.87	17.46	62.33	110.80	48.47	Horizontal
5725.00	44.50	17.49	61.99	122.20	60.21	Horizontal
11510.00	52.98	6.60	59.58	74.00	14.42	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11510.00	41.04	6.60	47.64	54.00	6.36	Vertical
11510.00	41.61	6.60	48.21	54.00	5.79	Horizontal

Test channel: Highest channel

Detector: Peak Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5850.00	39.02	19.56	58.58	122.20	63.62	Vertical
5855.00	35.39	19.59	54.98	110.80	55.82	Vertical
5875.00	35.60	19.73	55.33	105.20	49.87	Vertical
5925.00	35.27	19.97	55.24	68.20	12.96	Vertical
11590.00	55.27	6.17	61.44	74.00	12.56	Vertical
5850.00	34.78	19.56	54.34	122.20	67.86	Horizontal
5855.00	35.30	19.59	54.89	110.80	55.91	Horizontal
5875.00	35.21	19.73	54.94	105.20	50.26	Horizontal
5925.00	35.35	19.97	55.32	68.20	12.88	Horizontal
11590.00	54.73	6.17	60.90	74.00	13.10	Horizontal

Detector: Average Value

Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11590.00	41.48	6.17	47.65	54.00	6.35	Vertical
11590.00	42.96	6.17	49.13	54.00	4.87	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

Band 4: 5725 MHz - 5825 MHz, 802.11ax-HE80 – MIMO						
Test channel: Middle channel Detector: Peak Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
5650.00	36.16	17.16	53.32	68.20	14.88	Vertical
5700.00	45.97	17.35	63.32	105.20	41.88	Vertical
5720.00	47.83	17.46	65.29	110.80	45.51	Vertical
5725.00	43.50	17.49	60.99	122.20	61.21	Vertical
5850.00	48.43	18.01	66.44	122.20	55.76	Vertical
5855.00	42.44	18.02	60.46	110.80	50.34	Vertical
5875.00	38.02	18.07	56.09	105.20	49.11	Vertical
5925.00	35.27	17.95	53.22	68.20	14.98	Vertical
11550.00	52.16	6.39	58.55	74.00	15.45	Vertical
5650.00	36.05	17.16	53.21	68.20	14.99	Horizontal
5700.00	39.10	17.35	56.45	105.20	48.75	Horizontal
5720.00	42.06	17.46	59.52	110.80	51.28	Horizontal
5725.00	44.35	17.49	61.84	122.20	60.36	Horizontal
5850.00	41.24	18.01	59.25	122.20	62.95	Horizontal
5855.00	38.47	18.02	56.49	110.80	54.31	Horizontal
5875.00	35.55	18.07	53.62	105.20	51.58	Horizontal
5925.00	35.61	17.95	53.56	68.20	14.64	Horizontal
11550.00	53.41	6.39	59.80	74.00	14.20	Horizontal
Detector: Average Value						
Frequency (MHz)	Read Level (dBμV)	Factor (dB)	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
11550.00	40.75	6.39	47.14	54.00	6.86	Vertical
11550.00	41.24	6.39	47.63	54.00	6.37	Horizontal

Remark:

1. *Level = Reading + Factor.*
2. *Test Frequency up to 40GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.*

------End of report------