

FCC PART 15.407

TEST REPORT

For

SprintRay Inc

2710 Media Center Dr, Suite 100A, Los Angeles, California, 90065-1700, United States

FCC ID: 2A96L-SRP2504A

Report Type: Original Report	Product Name: SprintRay NanoWash
Report Number: <u>RKSA260622001-00E</u>	
Report Date: <u>2026-08-13</u>	
Reviewed By: <u>Winnie Yang</u>	<i>Winnie Yang</i>
Approved By: <u>Kyle Xu</u>	<i>Kyle Xu</i>
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government. This report contains data that are not covered by the NVLAP accreditation.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA260622001-00E	R1V1	2026-08-13	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	SprintRay Inc				
Tested Model:	SRP2504A				
Product Name:	SprintRay NanoWash				
Power Supply:	DC 24V from adapter				
Operating Frequency:	B1: 5150-5250 MHz, B2: 5250-5350 MHz, B3: 5470-5725 MHz, B4: 5725-5850 MHz				
Maximum Output Power:	Mode:	5G Wi-Fi Band 1:	Band 2:	Band 3:	Band 4:
	802.11a:	10.97 dBm	9.36 dBm	4.47 dBm	11.37 dBm
	802.11ac20:	12.12 dBm	10.64 dBm	7.11 dBm	13.81 dBm
	802.11ac40:	9.66 dBm	6.80 dBm	8.10 dBm	14.04 dBm
	802.11ac80:	8.25 dBm	6.38 dBm	7.67 dBm	12.62 dBm
	802.11ax20:	12.27 dBm	10.76 dBm	7.37 dBm	13.92 dBm
	802.11ax40:	9.42 dBm	7.03 dBm	7.96 dBm	14.31 dBm
	802.11ax80:	8.68 dBm	6.60 dBm	7.70 dBm	12.88 dBm
Channel Number:	B1:7; B2: 7; B3: 21; B4: 8				
Channel Separation	802.11a/n20/ac20/ax20: 20 MHz, 802.11n40/ac40/ax40: 40 MHz, 802.11ac80/ax80: 80 MHz				
Modulation Type:	OFDM, OFDMA				
Antenna Type:	FPC antenna				
★Maximum Antenna Gain:	Chain 0 Band 1: 2.28 dBi, Band 2: 2.72 dBi, Band 3: 2.67 dBi, Band 4: 2.67 dBi Chain 1 Band 1: 2.28 dBi, Band 2: 2.72 dBi, Band 3: 2.67 dBi, Band 4: 2.67 dBi				
Sample/EUT Status	Good condition				

Adapter Information:

Model: GSM90A24

Input: AC 100-240V, 50/60 Hz, 1.3-0.6A

Output: DC 24V, 3.75A, 90W MAX

Note: This EUT comes in two different configurations, differing only in the motor.

Based on the differences between configuration 1 and configuration 2, we measured all items for configuration 1, while configuration 2 was tested for ac line conducted emissions and spurious emissions below 1 GHz.

Motor Model	Configuration	Serial Number
PBL4611024-8109	configuration 1	RKSA260622001-1
AT2317	configuration 2	RKSA260622001-2

All measurement and tested data in this report was gathered from production sample serial number:

RKSA260622001-1 (configuration 1), RKSA260622001-2 (configuration 2) (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2026-06-22.)

Objective

This type approval report is prepared for *SprintRay Inc* in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions' rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024[▲], American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19 dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0°C
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system support 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80 the 802.11 n20/n40 were reduced since the identical parameters with 802.11ac20 and ac40.

For **5150~5250 MHz** band, test channel list is as below,

802.11a/ac20/ax20 mode Channel 36, 40, 48 were tested.

802.11ac40/ax40 mode Channel 38, 46 were tested.

802.11ac80/ax80 mode Channel 42 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For **5250~5350 MHz** band, test channel list is as below,

802.11a/ac20/ax20 mode Channel 52, 60, 64 were tested.

802.11ac40/ax40 mode Channel 54, 62 were tested.

802.11ac80/ax80 mode Channel 58 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For **5470~5725 MHz** band, test channel list is as below,

802.11a/ac20/ax20 mode Channel 100, 120, 140, 144 were tested.

802.11ac40/ax40 mode Channel 102, 118, 134, 142 were tested.

802.11ac80/ax80 mode Channel 106, 122, 138 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	118	5590	136	5680
102	5510	120	5600	138	5690
104	5520	122	5610	140	5700
106	5530	124	5620	142	5710
108	5540	126	5630	144	5720
110	5550	128	5640	/	/
112	5560	132	5660	/	/
116	5580	134	5670	/	/

For **5725~5850 MHz** band,

802.11a/ac20/ax20 mode Channel 149, 157, 165 were tested.

802.11ac40/ax40 mode Channel 151, 159 were tested.

802.11ac80/ax80 mode Channel 155 was tested.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

EUT Exercise Software

The system was configured for testing in an engineering mode, which was provided by manufacturer

Test software: adb

Pre-scan with all the data rates, and the worst case was performed as below:

U-NII	Mode	Data Rate	Channel	★Power Level	
				Chain 0	Chain 1
5150-5250MHz:	802.11a	6 Mbps	5180	15.5	15.5
			5200	15.5	15.5
			5240	15.5	15.5
	802.11ac20	MCS0	5180	14.5	14.5
			5200	14.5	14.5
			5240	14.5	14.5
	802.11ac40	MCS0	5190	11	11
			5230	11	11
	802.11ac80	MCS0	5210	10	10
	802.11ax20	MCS0	5180	14.5	14.5
			5200	14.5	14.5
			5240	14.5	14.5
	802.11ax40	MCS0	5190	11	11
			5230	11	11
	802.11ax80	MCS0	5210	10	10

U-NII	Mode	Data Rate	Channel	★Power Level	
				Chain 0	Chain 1
5250~5350MHz	802.11a	6 Mbps	5260	15.5	15.5
			5300	15.5	15.5
			5320	15.5	15.5
	802.11ac20	MCS0	5260	14	14
			5300	14	14
			5320	14	14
	802.11ac40	MCS0	5270	10	10
			5310	10	10
	802.11ac80	MCS0	5290	10	10
	802.11ax20	MCS0	5260	14	14
			5300	14	14
			5320	14	14
	802.11ax40	MCS0	5270	10	10
			5310	10	10
	802.11ax80	MCS0	5290	10	10

U-NII	Mode	Data Rate	Channel	★Power Level	
				Chain 0	Chain 1
5470~5725MHz	802.11a	6 Mbps	5500	8	8
			5600	8	8
			5700	8	8
			5720	8	8
	802.11ac20	MCS0	5500	8	8
			5600	8	8
			5700	8	8
			5720	8	8
	802.11ac40	MCS0	5510	8	8
			5590	8	8
			5670	8	8
			5710	8	8
	802.11ac80	MCS0	5530	8	8
			5610	8	8
			5690	8	8
	802.11ax20	MCS0	5500	8	8
			5600	8	8
			5700	8	8
			5720	8	8
	802.11ax40	MCS0	5510	8	8
			5590	8	8
			5670	8	8
			5710	8	8
	802.11ax80	MCS0	5530	8	8
			5610	8	8
			5690	8	8

U-NII	Mode	Data Rate	Channel	★Power Level	
				Chain 0	Chain 1
5725~5850MHz	802.11a	6 Mbps	5745	15.5	15.5
			5785	15.5	15.5
			5825	15.5	15.5
	802.11ac20	MCS0	5745	15.5	15.5
			5785	15.5	15.5
			5825	15.5	15.5
	802.11ac40	MCS0	5755	15.5	15.5
			5795	15.5	15.5
	802.11ac80	MCS0	5775	14.5	14.5
	802.11ax20	MCS0	5745	15.5	15.5
			5785	15.5	15.5
			5825	15.5	15.5
	802.11ax40	MCS0	5755	15.5	15.5
			5795	15.5	15.5
	802.11ax80	MCS0	5775	14.5	14.5

Note:

1. The power level was declared by the applicant.
2. 802.11a supports SISO mode, 802.11 ac20/ac40/ac80/ax20/ax40/ax80 supports SISO and MIMO mode. For Radiated Emission, according to pretest, the worst case for 802.11 ac20/ac40/ac80/ax20/ax40/ax80 is MIMO mode. So 802.11 ac20/ac40/ac80/ax20/ax40/ax80 MIMO mode test data were recorded in the report. For RF Conducted Test: 802.11 a/ac20/ac40/ac80/ax20/ax40/ax80 each transmit chains were tested. For Radiated Test: 802.11a, SISO for each transmit chain 802.11 ac20/ac40/ac80/ax20/ax40/ax80: MIMO for two transmit chains
3. 802.11ax only support full RU.

Duty Cycle:

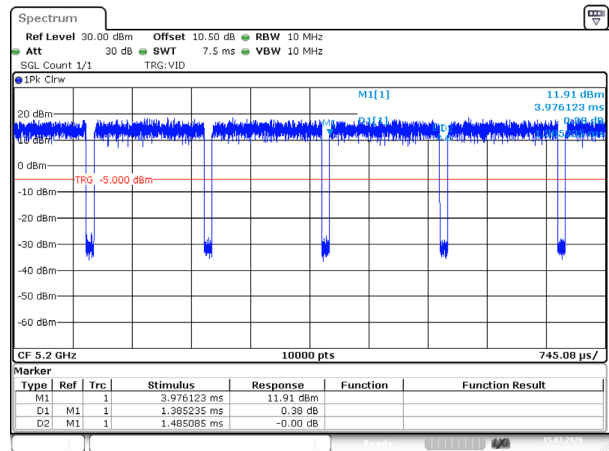
Environmental Conditions & Test Information

Test Date:	2026-07-15 to 2026-07-18
Temperature:	24.6-25.8 °C
Relative Humidity:	47-55 %
ATM Pressure:	100.9-102.3 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

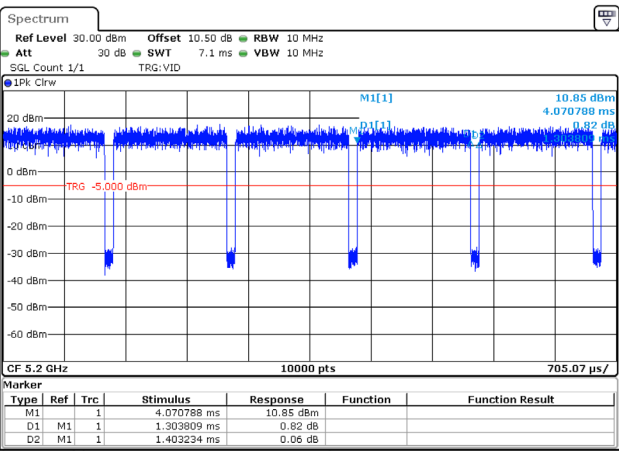
Chain 0

5150MHz-5250MHz Band:

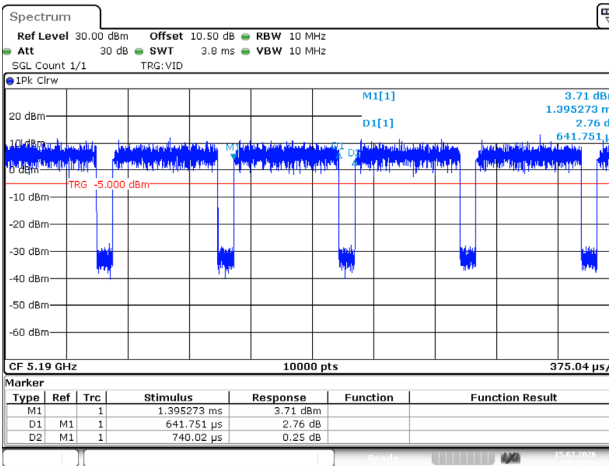
802.11a mode



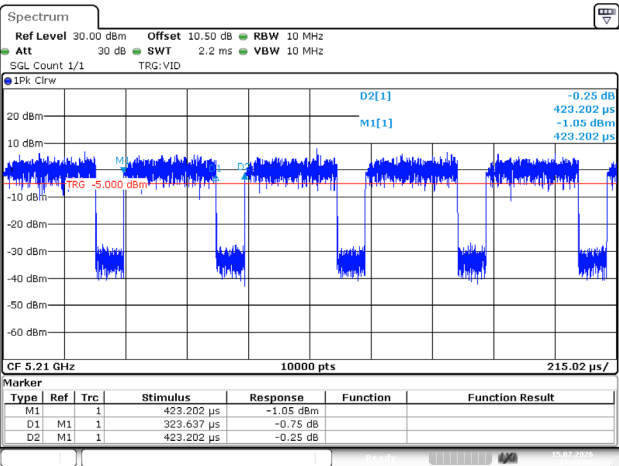
802.11ac20 mode



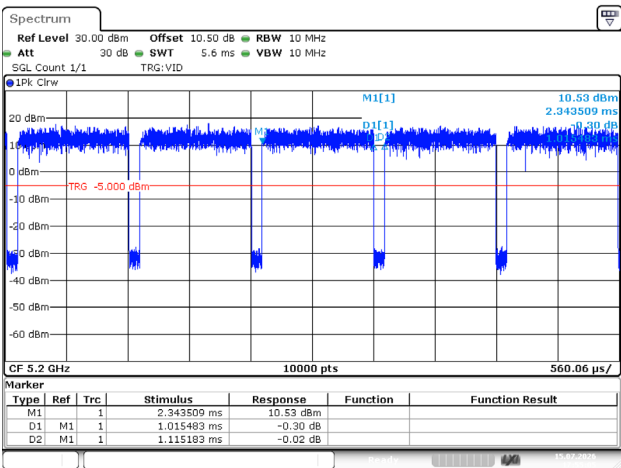
802.11ac40 mode



802.11ac80 mode

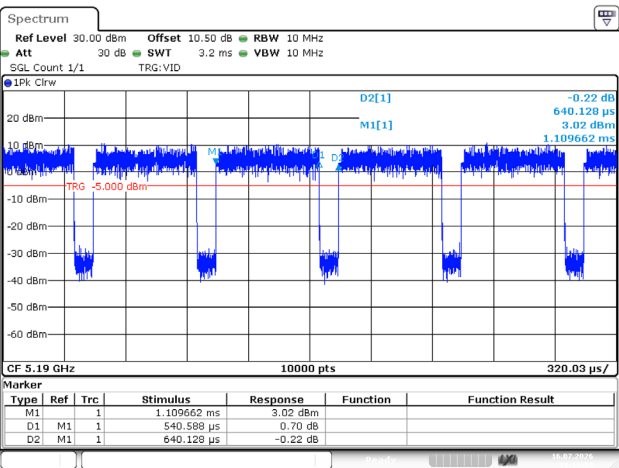


802.11ax20 mode



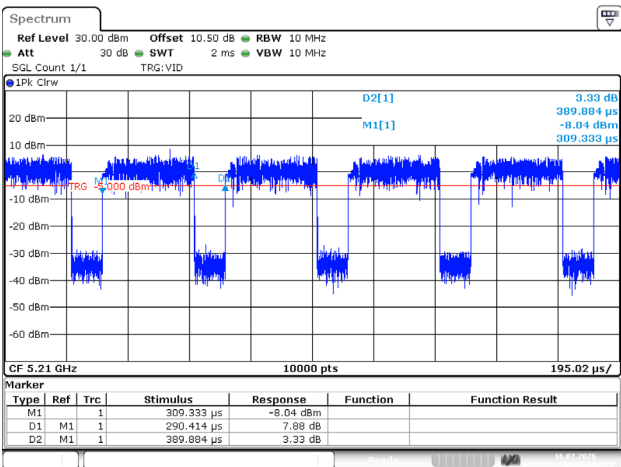
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802.11ax40 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
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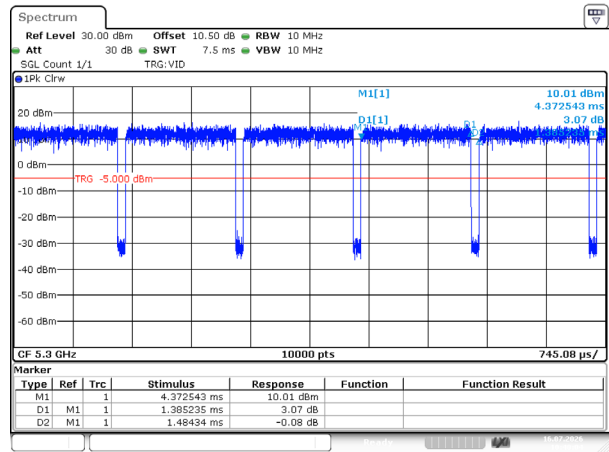
802.11ax80 mode



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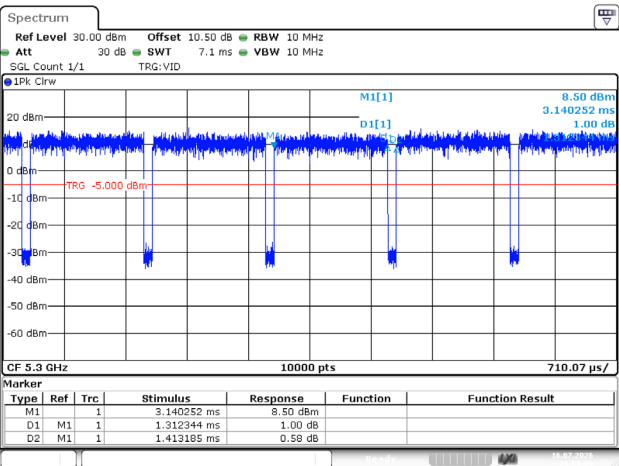
5250MHz-5350MHz Band:

802.11a mode



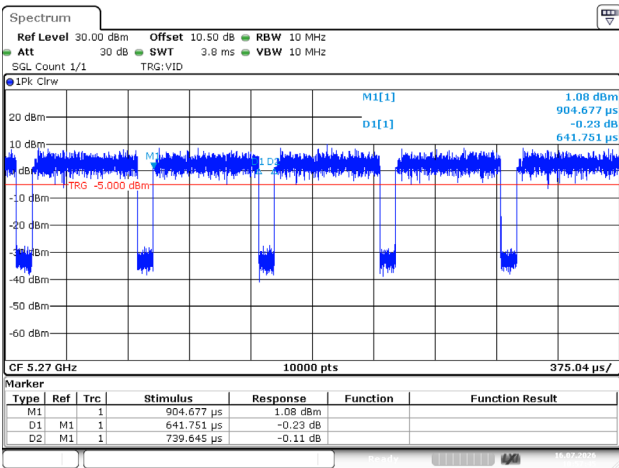
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802.11ac20 mode



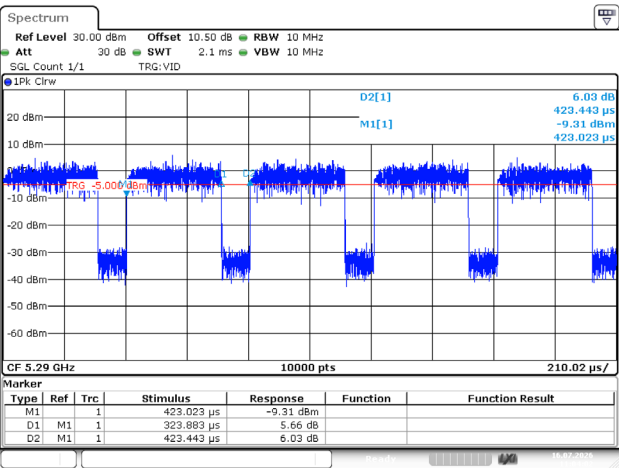
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802.11ac40 mode



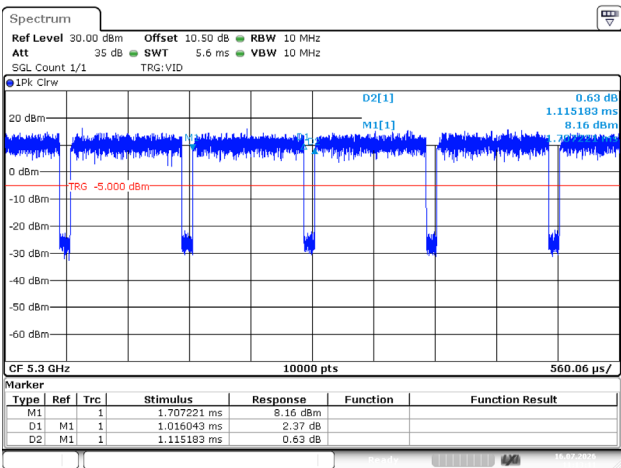
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802.11ac80 mode



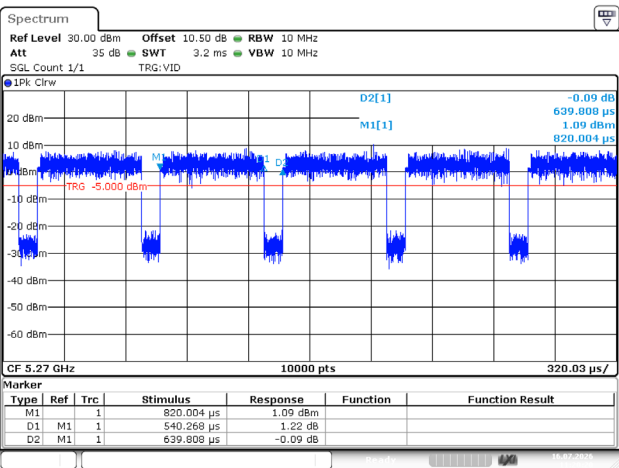
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802.11ax20 mode



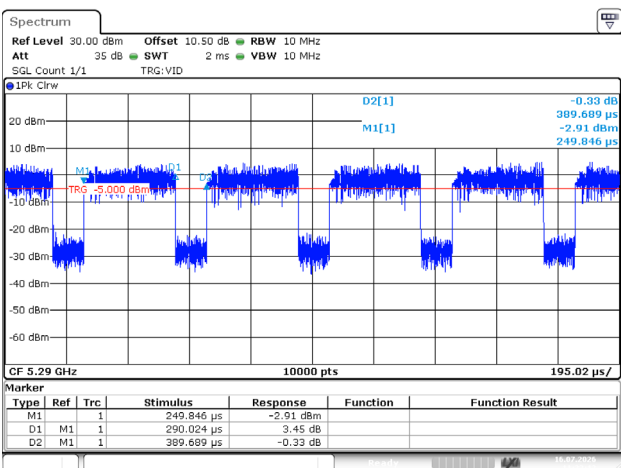
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802.11ax40 mode



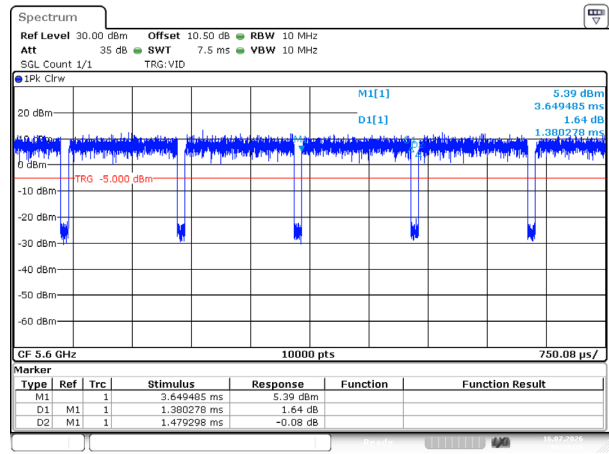
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802.11ax80 mode



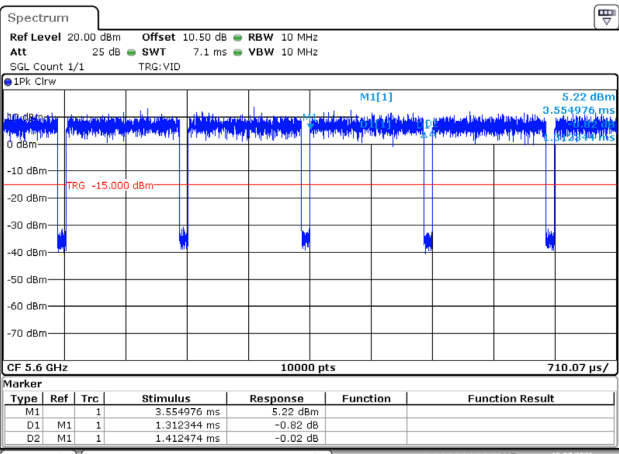
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5470MHz-5725MHz Band:
802.11a mode



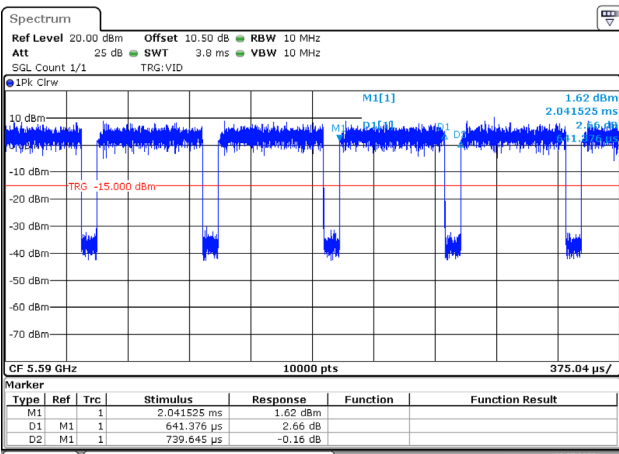
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802.11ac20 mode



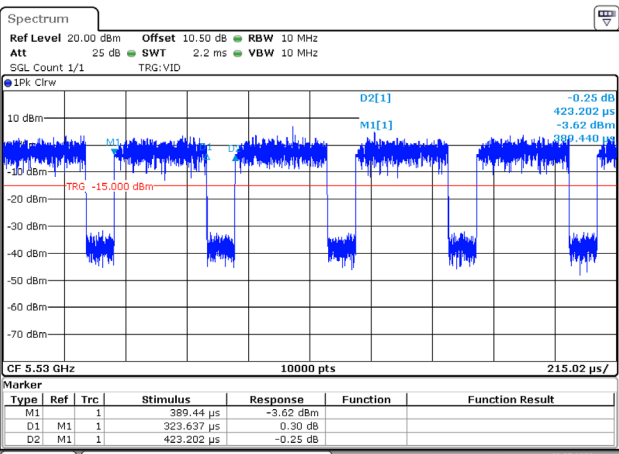
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802.11ac40 mode



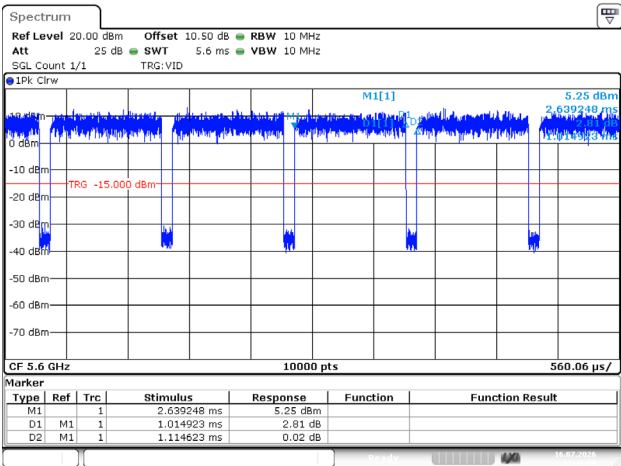
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802.11ac80 mode



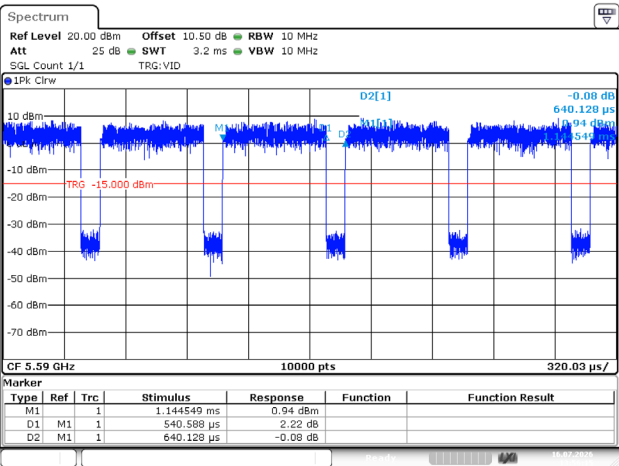
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802.11ax20 mode



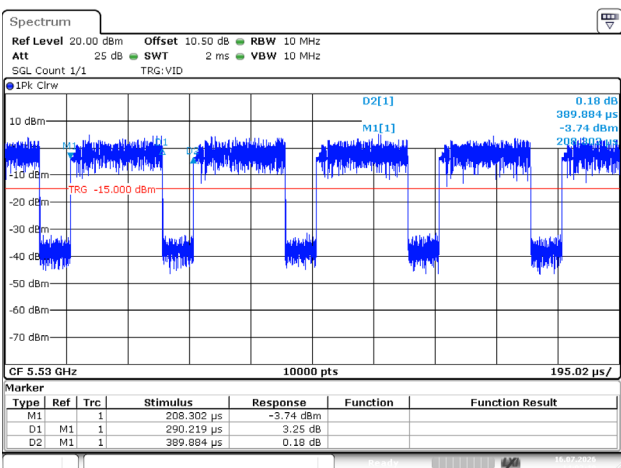
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802.11ax40 mode



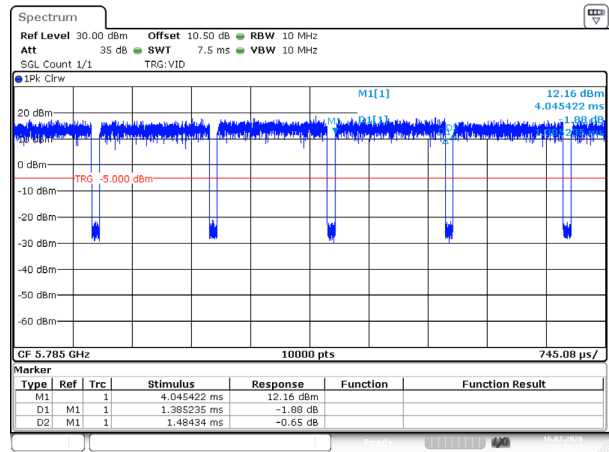
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802.11ax80 mode



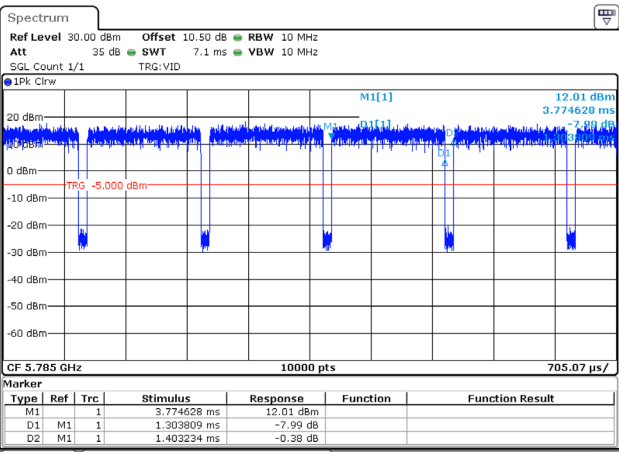
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5725MHz-5850MHz Band:
802.11a mode



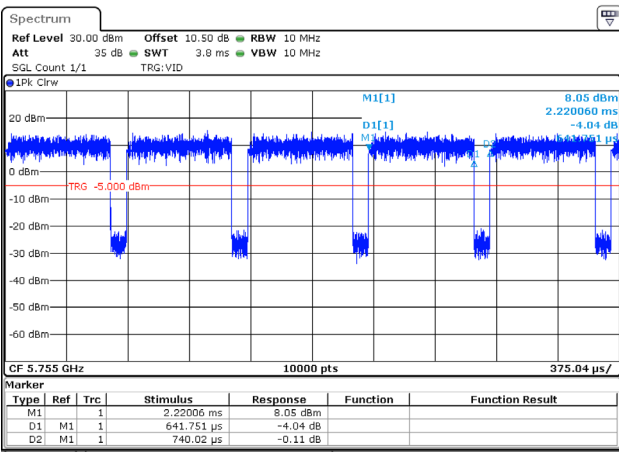
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802.11ac20 mode



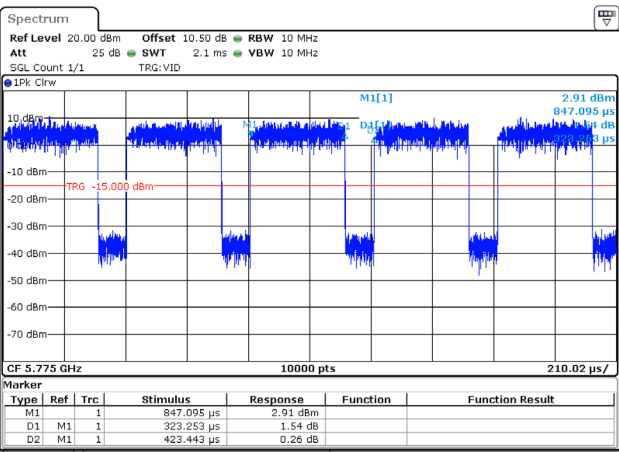
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802.11ac40 mode



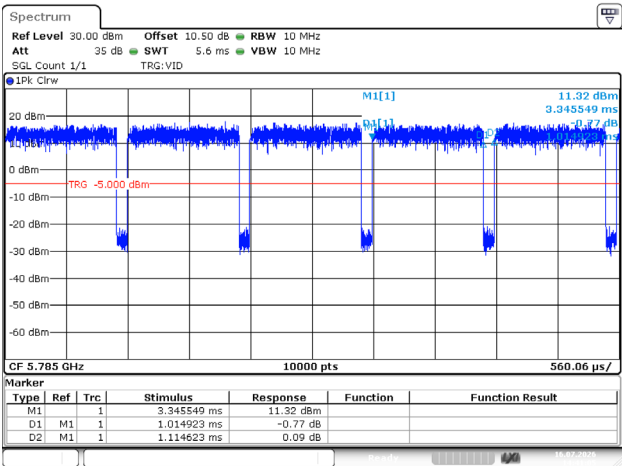
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802.11ac80 mode



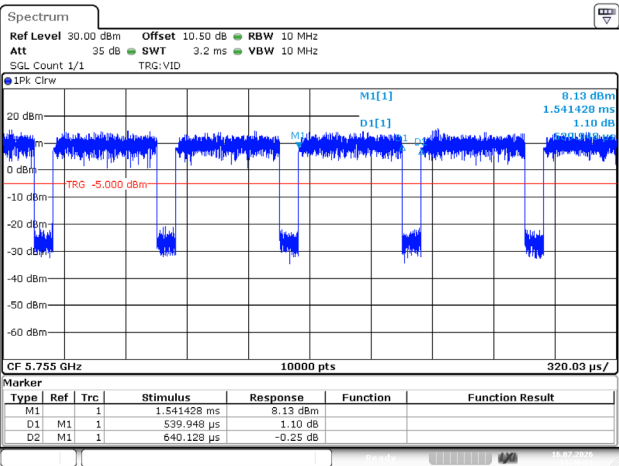
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802.11ax20 mode



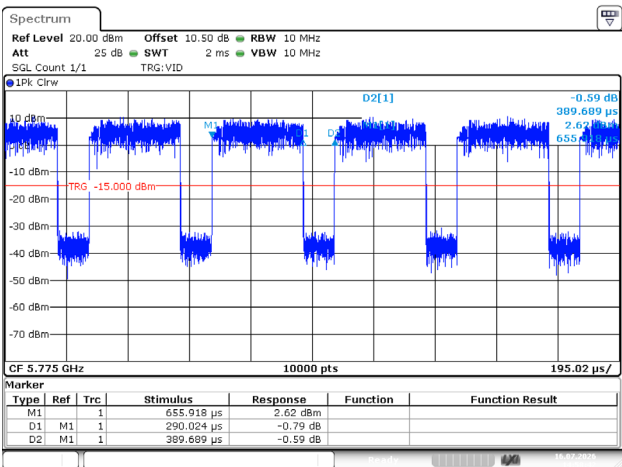
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802.11ax40 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
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802.11ax80 mode



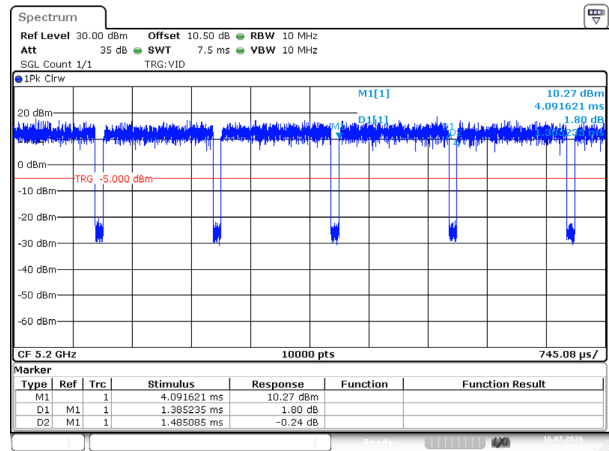
ProjectNo.:RKSA260622001 Tester:Neil Zhou
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Note: Offset (10.5dB) = Attenuator (10dB) + Cable Loss (0.5dB)

Chain 1

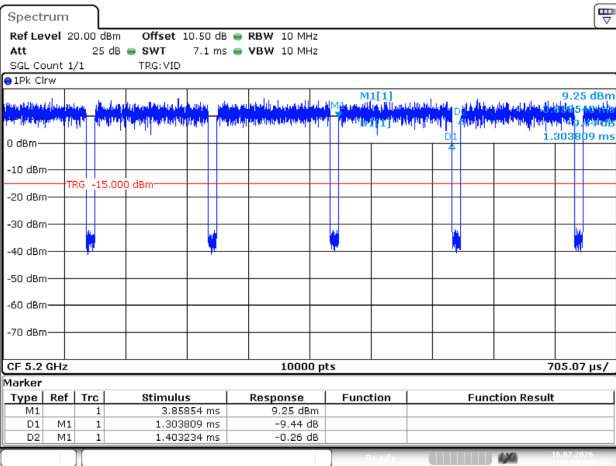
5150MHz-5250MHz Band:

802.11a mode



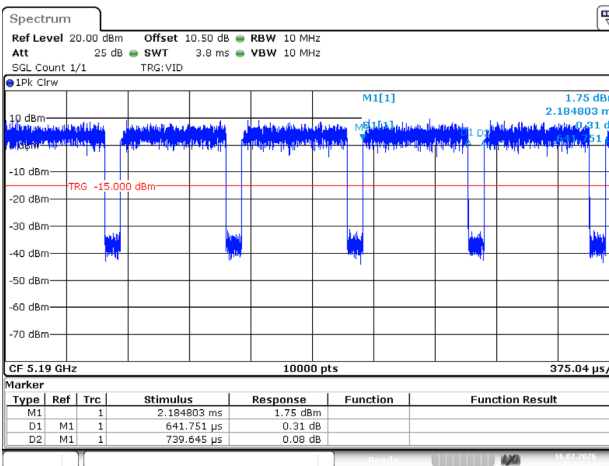
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 15:40:02

802.11ac20 mode



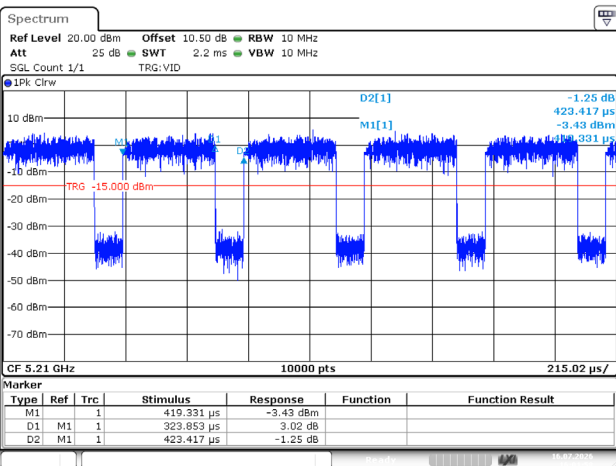
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 15:50:06

802.11ac40 mode



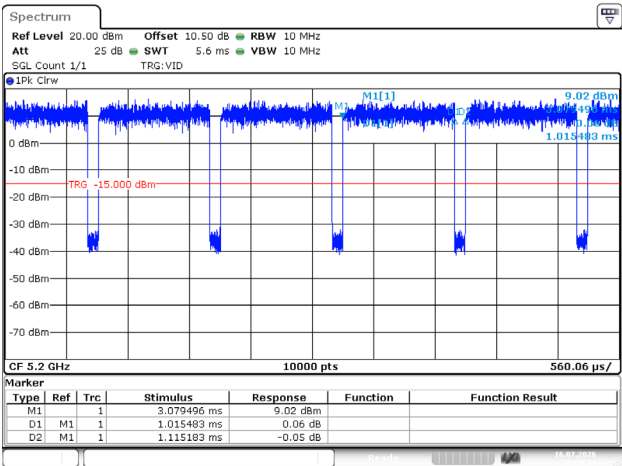
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 15:56:17

802.11ac80 mode



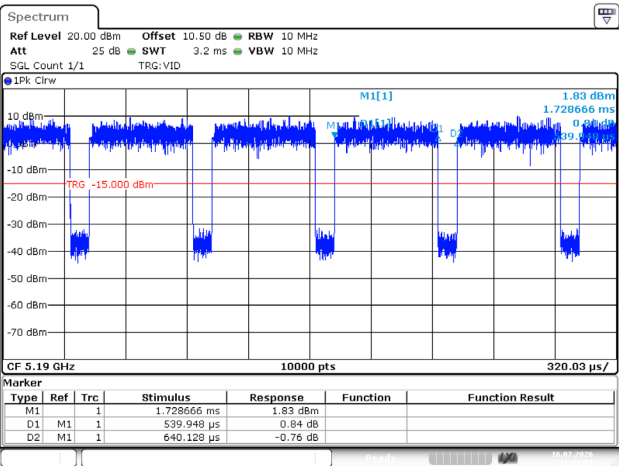
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:01:57

802.11ax20 mode



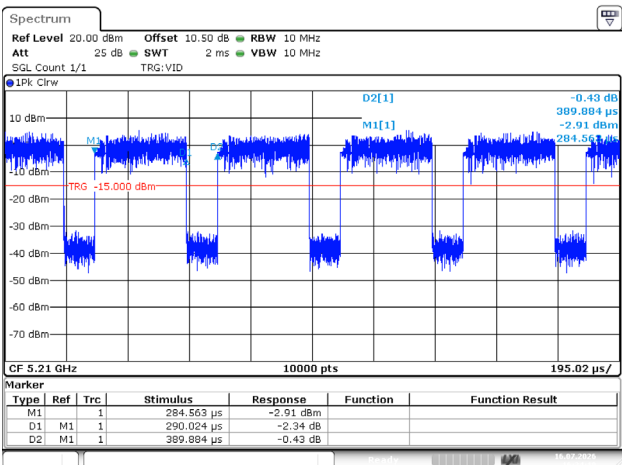
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:09:44

802.11ax40 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:15:51

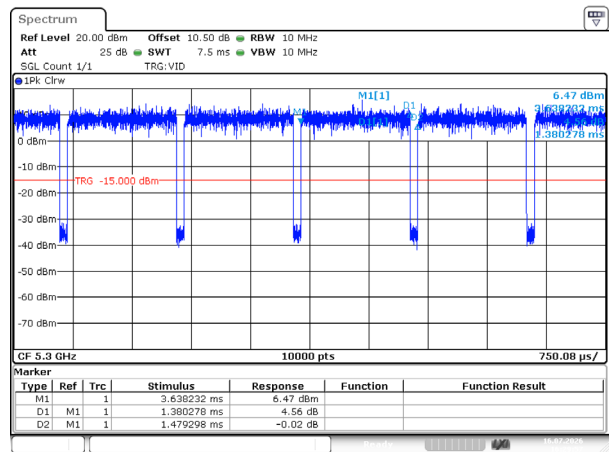
802.11ax80 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:24:19

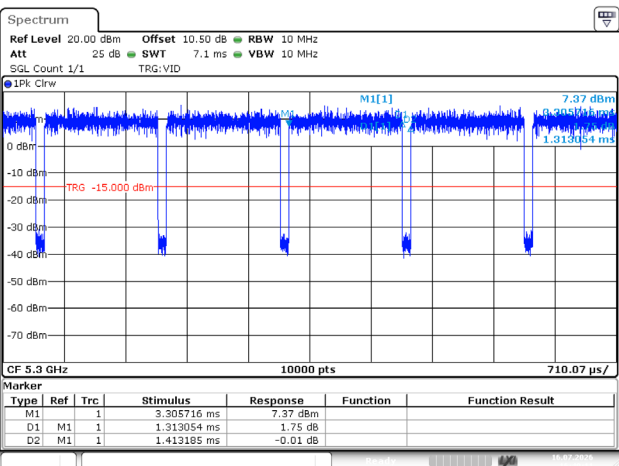
5250MHz-5350MHz Band:

802.11a mode



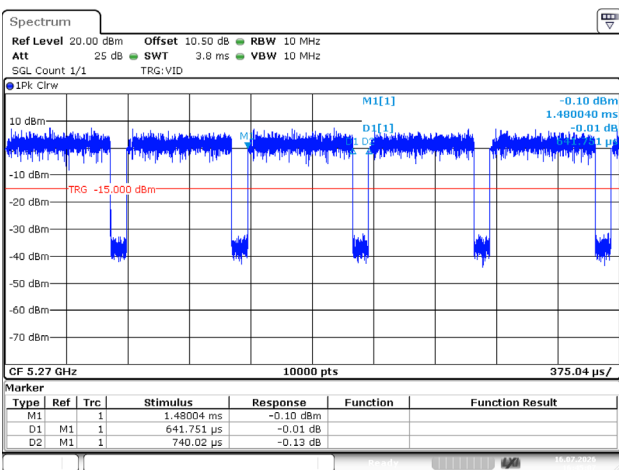
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:29:58

802.11ac20 mode



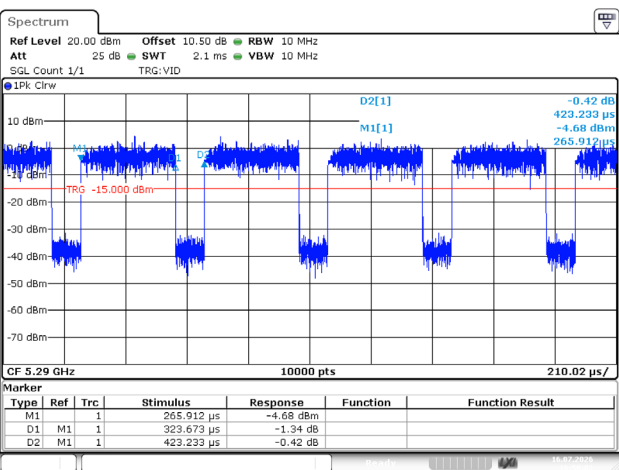
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:40:12

802.11ac40 mode



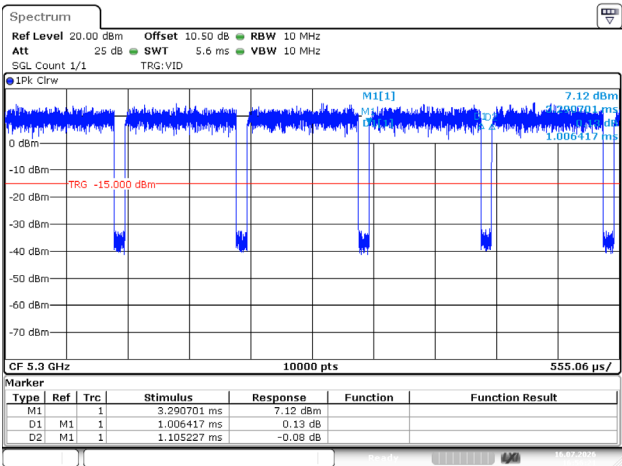
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Date: 16.JUL.2026 16:45:07

802.11ac80 mode



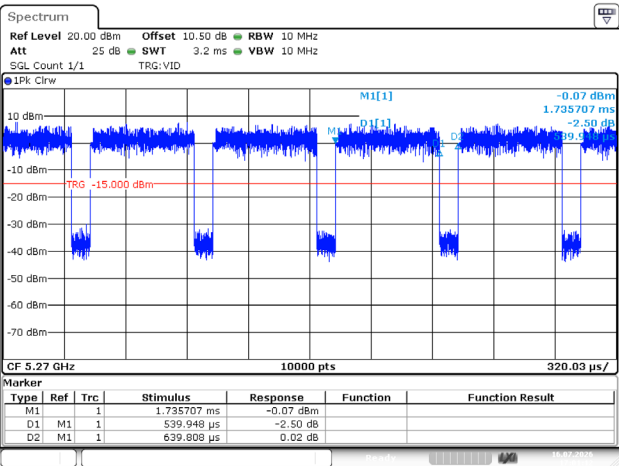
ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 16:50:02

802.11ax20 mode



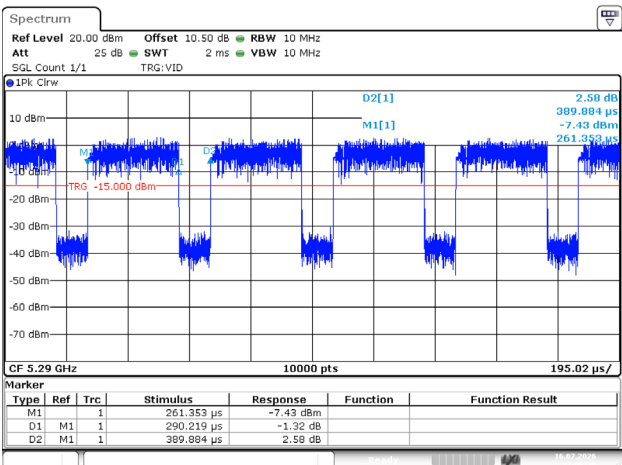
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Date: 16.JUL.2026 16:56:21

802.11ax40 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 17:01:12

802.11ax80 mode



ProjectNo.:RKSA260622001 Tester:Neil Zhou
Date: 16.JUL.2026 17:06:41