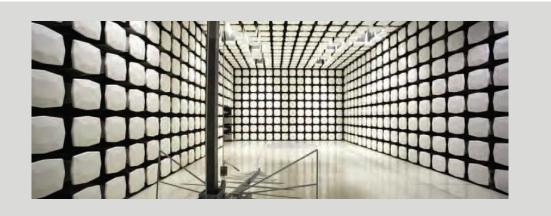


NAL Research Corporation

SHOUT sp Handheld Iridium Smartphone

FCC 15.247:2022 802.11bgn SISO Radio

Report: PCTE0003.2 Rev. 1, Issue Date: May 28, 2022







NVLAP LAB CODE: 200630-0



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Last Date of Test: May 18, 2022 NAL Research Corporation EUT: SHOUT sp Handheld Iridium Smartphone

Radio Equipment Testing

Standards Method Specification Method FCC 15.207:2022 ANSI C63.10:2013, KDB 558074

Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	Yes	Pass	
11.6	Duty Cycle	Yes	Pass	
11.8.2	DTS Bandwidth	Yes	Pass	
6.9.3	99% Occupied Bandwidth	Yes	Pass	
11.9.2.2.4	Output Power	Yes	Pass	
11.9.2.2.4	Equivalent Isotropic Radiated Power (EIRP)	Yes	Pass	
11.10.2	Power Spectral Density	Yes	Pass	
11.11	Band Edge Compliance	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	
11.12.1, 11.13.2, 6.5, 6.6	Spurious Radiated Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

REVISION HISTORY



Revision Number	Description	Date (yyyy-mm-dd)	Page Number
	Added both accreditations bodies to the report to reflect Elements transitions to A2LA	2022-03-04	1, 4, 5
	Updated Powerline Conducted emissions Data	2022-03-04	17-21
	Added radio control software to test configurations	2022-05-18	11-14
	Added new configuration for PCTE0003-12	2022-05-18	14
	Added external antenna to configuration PCTE0003-5	2022-05-18	12
	Reduced power settings for low and high channels for the following data rates: 20 MHz Bandwidth - 6 Mbps, 36 Mbps, 54 Mbps, MCS0, MCS7.	2022-05-18	16
	Updated antenna gain value	2022-05-18	16
04	Updated data for DTS Bandwidth	2022-05-18	51-66
01	Added Occupied Bandwidth measurements	2022-05-18	67-82
	Band Edge Compliance data updated with PK detector settings on spectrum analyzer	2022-05-18	174-184
	Updated Output Power measurements	2022-05-18	83-98
	Updated EIRP measurements	2022-05-18	99-114
	Updated PSD measurements	2022-05-18	115-130
	Updated last date of test	2022-05-18	2, 10, 15
	Updated Modifications page to reflect new testing	2022-05-18	15
	Added DTS Bandwidth and Occupied Bandwidth line items to the Certificate of Test	2022-05-18	2
	Updated cover page now shows FCC 15.247:2022.	2022-06-02	1
	Updated block diagram to latest version.	2022-06-02	7
	Updated spec to FCC 15.247:2021	2022-06-02	23, 132, 187

ACCREDITATIONS AND AUTHORIZATIONS



United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Each laboratory is accredited by A2LA to ISO / IEC 17025, and as a product certifier to ISO / IEC 17065 which allows Element to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

ISED - Recognized by Innovation, Science and Economic Development Canada as a Certification Body (CB) and as a CAB for the acceptance of test data.

European Union

European Commission - Recognized as an EU Notified Body validated for the EMCD and RED Directives.

United Kingdom

BEIS – Recognized by the UK as an Approved Body under the UK Radio Equipment and UK EMC Regulations.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

MSIT / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Israel

MOC - Recognized by MOC as a CAB for the acceptance of test data.

Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

		SCOPE					
	For details on the Scopes of our Accreditations, please visit:						
<u>California</u>	<u>Minnesota</u>	<u>Oregon</u>	<u>Texas</u>	Washington			

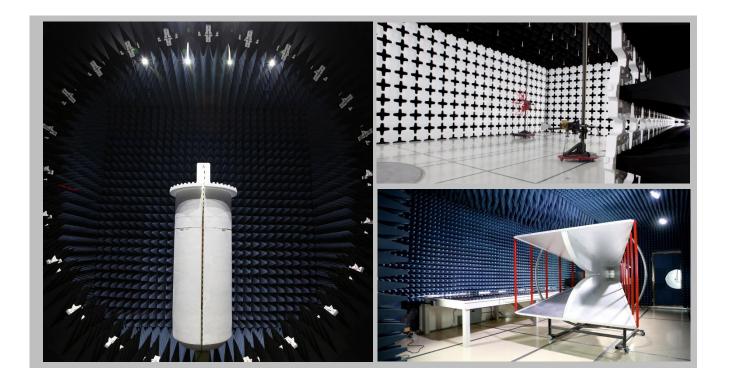








California	Minnesota	Oregon	Texas	Washington					
Labs OC01-17	Labs MN01-11	Labs EV01-12	Labs TX01-09	Labs NC01-05					
41 Tesla	9349 W Broadway Ave.	6775 NE Evergreen Pkwy #400	3801 E Plano Pkwy	19201 120 th Ave NE					
Irvine, CA 92618	Brooklyn Park, MN 55445	Hillsboro, OR 97124	Plano, TX 75074	Bothell, WA 98011					
(949) 861-8918	(612)-638-5136	(503) 844-4066	(469) 304-5255	(425)984-6600					
	A2LA								
Lab Code: 3310.04	Lab Code: 3310.05	Lab Code: 3310.02	Lab Code: 3310.03	Lab Code: 3310.06					
NVLAP									
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0					
	Innovation, Sci	ence and Economic Develop	ment Canada						
2834B-1, 2834B-3	2834E-1, 2834E-3	2834D-1	2834G-1	2834F-1					
		BSMI							
SL2-IN-E-1154R	SL2-IN-E-1152R	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R					
VCCI									
A-0029	A-0109	A-0108	A-0201	A-0110					
Re	Recognized Phase I CAB for ISED, ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA								
US0158	US0175	US0017	US0191	US0157					



MEASUREMENT UNCERTAINTY



Measurement Uncertainty

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found in the table below. A lab specific value may also be found in the applicable test description section. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	1.2 dB	-1.2 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	3.2 dB	-3.2 dB

TEST SETUP BLOCK DIAGRAMS

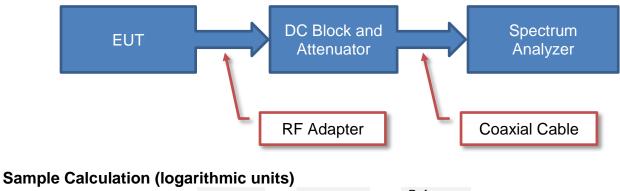


Measurement Bandwidths

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Unless otherwise stated, measurements were made using the bandwidths and detectors specified. No video filter was used.

Antenna Port Conducted Measurements

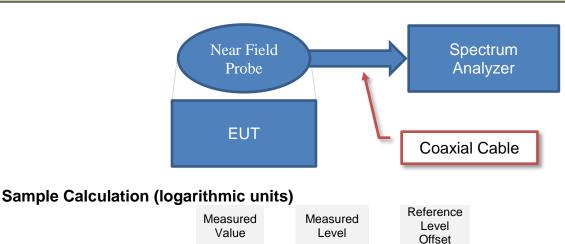


-	Measured Value	-	Measured Level		Reference Level Offset
	71.2	=	42.6	+	28.6

Near Field Test Fixture Measurements

71.2

=



42.6

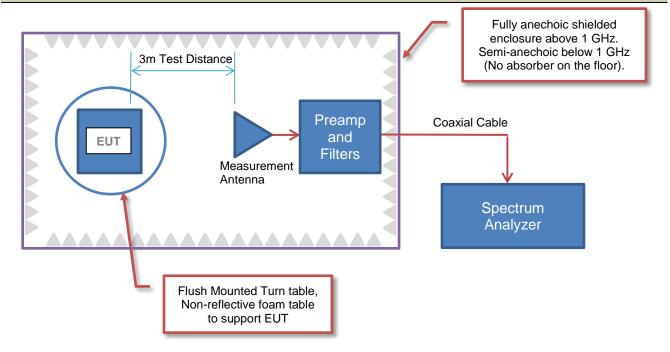
+

28.6

TEST SETUP BLOCK DIAGRAMS



Emissions Measurements

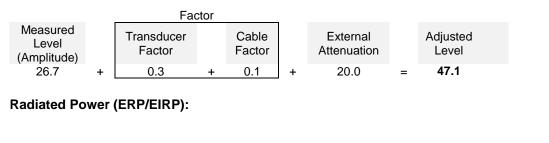


Sample Calculation (logarithmic units)

Radiated Emissions:

			Factor								
Measured Level (Amplitude)	ntenna Factor		Cable Factor		Amplifier Gain		Distance Adjustment Factor		External Attenuation		Field Strength
42.6 +	28.6	+	3.1	-	40.8	+	0.0	+	0.0	=	33.5

Conducted Emissions:



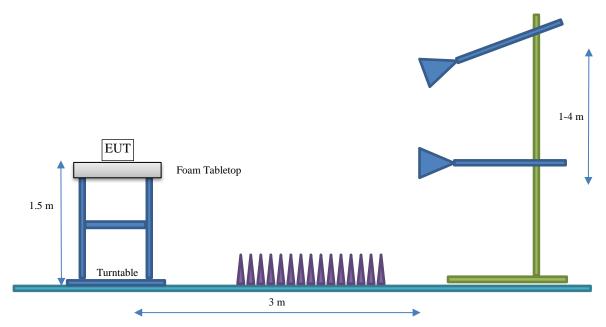
Measured Level into Substitution Antenna (Amplitude dBm)		Substitution Antenna Factor (dBi)		EIRP to ERP (if applicable)		Measured power (dBm ERP/EIRP)
10.0	+	6.0	-	2.15	=	13.9/16.0

TEST SETUP BLOCK DIAGRAMS



Bore Sighting (>1GHz)

The diameter of the illumination area is the dimension of the line tangent to the EUT formed by 3 dB beamwidth of the measurement antenna at the measurement distance. At a 3 meter test distance, the diameter of the illumination area was 3.8 meters at 1 GHz and greater than 2.1 meters up to 6 GHz. Above 1 GHz, when required by the measurement standard, the antenna is pointed for both azimuth and elevation to maintain the receive antenna within the cone of radiation from the EUT. The specified measurement detectors were used for comparison of the emissions to the peak and average specification limits.



PRODUCT DESCRIPTION



Client and Equipment Under Test (EUT) Information

Company Name:	NAL Research Corporation
Address:	11100 Endeavor Ct. Suite 300 Manassas, VA 20109
City, State, Zip:	Manassas, VA 20109
Test Requested By:	Andy Shiltz
EUT:	SHOUT sp Handheld Iridium Smartphone
First Date of Test:	May 25, 2021
Last Date of Test:	May 18, 2022
Receipt Date of Samples:	May 25, 2021
Equipment Design Stage:	Production
Equipment Condition:	No Damage
Purchase Authorization:	Verified

Information Provided by the Party Requesting the Test

Functional Description of the EUT:

Handheld Iridium Smartphone with 1.6 GHz radio and 802.11/Bluetooth radio.

Testing Objective:

To demonstrate compliance of the 802.11 radio under FCC 15.247 for operation in the 2.4 GHz band.



Software/Firmware Running during test					
Description Version					
PHY Firmware	8.2.0.0.237				
PLT Firmware	8.9.0.10.70				

EUT								
Description	Manufacturer	Model/Part Number	Serial Number					
SHOUT sp Handheld Iridium Smartphone	NAL Research Corporation	433-93281-001	FCC 1					

Peripherals in test setup boundary				
Description Manufacturer Model/Part Number Serial Number				
Laptop	Dell	Inspiron	20976051206	
AC/DC Adapter	Dell	LA45NM140	None	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable (Power)	Yes	1.0 m	No	SHOUT sp Handheld Iridium Smartphone	Laptop
AC Power	No	1.0 m	No	AC/DC Adapter	AC Power
DC Power	No	1.8 m	No	AC/DC Adapter	Laptop
USB Cable x2	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	Laptop
USB Cable	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	Unterminated



Software/Firmware Running during test				
Description	Version			
PHY Firmware	8.2.0.0.237			
PLT Firmware	8.9.0.10.70			

EUT						
Description	Manufacturer	Model/Part Number	Serial Number			
SHOUT sp Handheld Iridium Smartphone	NAL Research Corporation	433-93281-001	FCC 2			
Antenna	18942	HARRIS-NEXGEN	8960263-1			

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Laptop	Dell	Latitude E5450	5z9B063		
Earbuds	Betron	MK23	None		
AC Adapter	Dell	LA65NM130	None		

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Extension Cable	Yes	1.1 m	No	USB Cable	Laptop
USB Cable x2	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	Unterminated
USB Cable	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	USB Extension Cable
Headphones	No	1.2 m	No	Earbuds	SHOUT sp Handheld Iridium Smartphone
USB Cable (Power)	Yes	1.8 m	No	SHOUT sp Handheld Iridium Smartphone	Laptop
DC Power	No	2.0 m	No	Laptop	AC Adapter
AC Power	No	1.0 m	No	AC Adapter	AC Power



Software/Firmware Running during test				
Description	Version			
PHY Firmware	8.2.0.0.237			
PLT Firmware	8.9.0.10.70			

EUT						
Description	Manufacturer	Model/Part Number	Serial Number			
SHOUT sp Handheld Iridium Smartphone	NAL Research Corporation	433-93281-001	FCC 2			
Antenna	18942	HARRIS-NEXGEN	8960263-1			

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Laptop	Dell	Latitude E5450	5z9B063		
Earbuds	Betron	MK23	None		
AC Adaptor	Sony	AC-UUD12	1901AQ2032484		

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
USB Cable x3	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	Laptop
Headphones	No	1.2 m	No	Earbuds	SHOUT sp Handheld Iridium Smartphone
USB Cable (Power)	Yes	0.8m	No	AC Adaptor	SHOUT sp Handheld Iridium Smartphone



Software/Firmware Running during test				
Description	Version			
PHY Firmware	8.2.0.0.237			
PLT Firmware	8.9.0.10.70			

EUT						
Description	Manufacturer	Model/Part Number	Serial Number			
SHOUT sp Handheld Iridium Smartphone	NAL Research Corporation	433-93281-001	FCC 3			

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
Laptop	Dell	Latitude E5450	5z9B063		
AC Adaptor	Sony	AC-UUD12	1901AQ2032484		

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
USB Cable x3	Yes	1.1 m	No	SHOUT sp Handheld Iridium Smartphone	Laptop		
USB Cable (Power)	Yes	0.8m	No	AC Adaptor	SHOUT sp Handheld Iridium Smartphone		

MODIFICATIONS



Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	2021-05-25	Duty Cycle	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
2	2021-08-24	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
3	2021-08-30	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
4	2022-03-04	Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
5	2022-05-18	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
6	2022-05-18	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
7	2022-05-18	DTS Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
8	2022-05-18	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
9	2022-05-18	Equivalent Isotropic Radiated Power (EIRP)	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Element following the test.
10	2022-05-18	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

POWER SETTINGS AND ANTENNAS



The power settings, antenna gain value(s) and cable loss (if applicable) used for the testing contained in this report were provided by the customer and will affect the validity of the results. Element assumes no responsibility for the accuracy of this information.

ANTENNA GAIN (dBi)

Туре	Provided by:	Frequency Range (MHz)	Gain (dBi)
On-ground MID Chip	Manufacturer	2400 – 2485	3.0

The EUT was tested using the power settings provided by the manufacturer:

SETTINGS FOR ALL TESTS IN THIS REPORT

Madulation Trace	Channel Dandwidthe	Channel	Desition		Power Setting
Modulation Types	Channel Bandwidths	Channel	Position	Frequency (MHz)	(dBm)
4.1.41	22	1	Low Channel	2412	17.3
1 Mbps	20	6	Mid Channel	2437	17.3
		11	High Channel	2462	17.3
		1	Low Channel	2412	17.3
11 Mbps	20	6	Mid Channel	2437	17.3
		11	High Channel	2462	17.3
		1	Low Channel	2412	12.0
6 Mbps	20	6	Mid Channel	2437	17.1
		11	High Channel	2462	12.0
		1	Low Channel	2412	12.0
36 Mbps	20	6	Mid Channel	2437	15.3
		11	High Channel	2462	12.0
		1	Low Channel	2412	12.0
54 Mbps	20	6	Mid Channel	2437	13.8
		11	High Channel	2462	12.0
		1	Low Channel	2412	12.0
MCS0	20	6	Mid Channel	2437	16.1
		11	High Channel	2462	12.0
		1	Low Channel	2412	12.0
MCS7	20	6	Mid Channel	2437	12.6
		11	High Channel	2462	12.0
		1/5	Low Channel	2422	14.8
MCS0	40	4/8	Mid Channel	2437	14.8
		7/11	High Channel	2452	14.8
		1/5	Low Channel	2422	11.3
MCS7	40	4/8	Mid Channel	2437	11.3
		7/11	High Channel	2452	11.3



TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Per the standard, an insulating material was also added to ground plane between the EUT's power and remote I/O cables. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 500hm measuring port is terminated by a 500hm EMI meter or a 500hm resistive load. All 500hm measuring ports of the LISN are terminated by 500hm. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Cable - Conducted Cable Assembly	Northwest EMC	EVG, HHD, RKT	EVGA	2022-01-04	2023-01-04
LISN	Solar Electronics	9252-50-R-24-BNC	LIP	2021-09-10	2022-09-10
Receiver	Gauss Instruments	TDEMI 30M	ARN	2021-04-06	2022-04-06

MEASUREMENT UNCERTAINTY

Description		
Expanded k=2	3.2 dB	-3.2 dB

CONFIGURATIONS INVESTIGATED

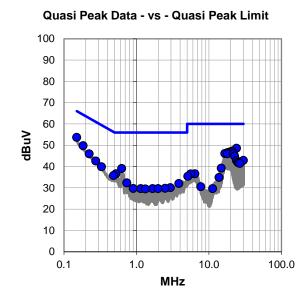
PCTE0003-9

MODES INVESTIGATED

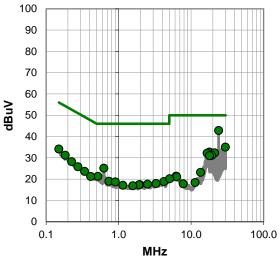
Continuous Tx, 802.11bgn, 1 Mbps



EUT:		SHOUT sp Handheld Iridium Smartphone			Work Order:	PCTE0003	
Serial Number:	FCC 2	FCC 2			Date:	2022-03-04	
Customer:	NAL Resear	ch Corpora	tion		Temperature:	20.4°C	
Attendees:	None				Relative Humidity:	41.7%	
Customer Project:	None				Bar. Pressure (PMSL):	1020 mb	
Tested By:	Jeff Alcoke				Job Site:	EV07	
Power:	110VAC/60H	lz			Configuration:	PCTE0003-9	
TEST SPECIF	ICATIONS						
Specification:				Method:			
FCC 15.207:2022				ANSI C63.	3.10:2013		
TEST PARAM	ETERS						
Run #: 19		Line:	Neutral		Add. Ext. Attenuation (dB): 0	
Ruii #. 19		Line.	Houlia		Adu. Exi. Allendalion (ub). 0	
COMMENTS		Line.	Hould		Add. Ext. Altendation (db). [0	
		Line.	Notata). 0	
COMMENTS ARN, EVGA, LIP EUT OPERAT							
COMMENTS ARN, EVGA, LIP							
COMMENTS ARN, EVGA, LIP EUT OPERAT	2.11bgn, 1 Mbp	9S					
COMMENTS ARN, EVGA, LIP EUT OPERAT Continuous Tx, 80	2.11bgn, 1 Mbp	9S					



Average Data - vs - Average Limit





RESULTS - Run #19

Quasi Peak Data - vs - Quasi Peak Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
24.000	27.7	20.9	48.6	60.0	-11.4	
0.150	33.6	20.1	53.7	66.0	-12.3	
20.727	26.4	20.8	47.2	60.0	-12.8	
20.956	26.4	20.8	47.2	60.0	-12.8	
21.070	26.4	20.8	47.2	60.0	-12.8	
21.185	26.2	20.8	47.0	60.0	-13.0	
19.334	26.2	20.6	46.8	60.0	-13.2	
17.970	25.9	20.6	46.5	60.0	-13.5	
16.601	25.5	20.6	46.1	60.0	-13.9	
18.002	25.4	20.6	46.0	60.0	-14.0	
21.876	25.2	20.8	46.0	60.0	-14.0	
0.184	29.8	20.0	49.8	64.3	-14.5	
22.570	24.1	20.8	44.9	60.0	-15.1	
0.223	26.0	20.0	46.0	62.7	-16.7	
0.628	19.3	19.8	39.1	56.0	-16.9	
29.955	21.8	21.1	42.9	60.0	-17.1	
24.067	21.9	20.9	42.8	60.0	-17.2	
24.989	21.0	20.9	41.9	60.0	-18.1	
25.680	20.8	20.9	41.7	60.0	-18.3	
0.275	22.7	19.9	42.6	61.0	-18.4	
26.728	20.5	21.0	41.5	60.0	-18.5	
0.521	16.8	19.8	36.6	56.0	-19.4	
0.330	20.1	19.8	39.9	59.5	-19.6	
0.484	16.0	19.8	35.8	56.3	-20.5	
14.802	18.7	20.5	39.2	60.0	-20.8	

Average Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
24.000	21.9	20.9	42.8	50.0	-7.2	
29.712	13.9	21.1	35.0	50.0	-15.0	
18.002	12.1	20.6	32.7	50.0	-17.3	
21.176	11.5	20.8	32.3	50.0	-17.7	
16.679	11.6	20.6	32.2	50.0	-17.8	
19.334	10.5	20.6	31.1	50.0	-18.9	
18.035	10.4	20.6	31.0	50.0	-19.0	
0.626	5.3	19.8	25.1	46.0	-20.9	
0.150	14.0	20.1	34.1	56.0	-21.9	
0.184	11.2	20.0	31.2	54.3	-23.1	
0.225	8.2	20.0	28.2	52.6	-24.4	
0.518	1.5	19.8	21.3	46.0	-24.7	
0.275	5.9	19.9	25.8	51.0	-25.2	
0.339	3.8	19.8	23.6	49.2	-25.6	
0.412	1.4	19.8	21.2	47.6	-26.4	
13.560	2.8	20.4	23.2	50.0	-26.8	
0.736	-0.9	19.9	19.0	46.0	-27.0	
4.219	-1.2	20.0	18.8	46.0	-27.2	
0.902	-1.2	19.9	18.7	46.0	-27.3	
3.281	-2.1	20.0	17.9	46.0	-28.1	
2.512	-2.4	20.0	17.6	46.0	-28.4	
1.954	-2.6	20.0	17.4	46.0	-28.6	
6.247	1.2	20.2	21.4	50.0	-28.6	
1.917	-2.7	20.0	17.3	46.0	-28.7	
1.148	-2.8	19.9	17.1	46.0	-28.9	

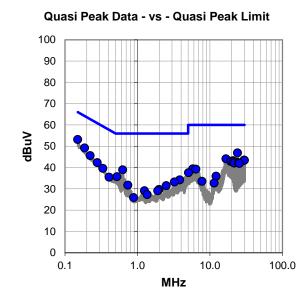
CONCLUSION

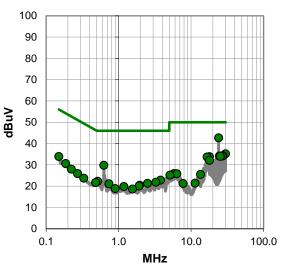
Pass

Tested By



						BOTTOO	
EUT:	SHOUT sp H	SHOUT sp Handheld Iridium Smartphone			Work Order:	PCTE0003	
Serial Number:	FCC 2	FCC 2			Date:	2022-03-04	
Customer:	NAL Resear	ch Corpora	tion		Temperature:	20.4°C	
Attendees:	None				Relative Humidity:	41.7%	
Customer Project	t: None				Bar. Pressure (PMSL):	1020 mb	
Tested By:	Jeff Alcoke				Job Site:	EV07	
Power:	110VAC/60H	Ηz			Configuration:	PCTE0003-9	
TEST SPECI	FICATIONS						
Specification:				Method:			
FCC 15.207:202	2			ANSI C63.	3.10:2013		
TEST PARA	METERS						
Run #: 2	0	Line:	High Line		Add. Ext. Attenuation (dB): 0	
COMMENTS							
ARN, EVGA, LIF)						
EUT OPERA	TING MODES						
EUT OPERA							
EUT OPERA Continuous Tx,	TING MODES)S	ARD				
EUT OPERA Continuous Tx,	TING MODES 302.11bgn, 1 Mbr)S	ARD				





Average Data - vs - Average Limit



RESULTS - Run #20

Quasi Peak Data - vs - Quasi Peak Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.150	33.1	20.1	53.2	66.0	-12.8	
24.000	26.0	20.9	46.9	60.0	-13.1	
0.187	29.2	20.0	49.2	64.2	-15.0	
16.679	23.5	20.6	44.1	60.0	-15.9	
29.609	22.3	21.1	43.4	60.0	-16.6	
29.723	22.3	21.1	43.4	60.0	-16.6	
29.839	22.3	21.1	43.4	60.0	-16.6	
29.954	22.3	21.1	43.4	60.0	-16.6	
20.725	22.4	20.8	43.2	60.0	-16.8	
0.626	19.1	19.8	38.9	56.0	-17.1	
19.334	22.3	20.6	42.9	60.0	-17.1	
0.223	25.6	20.0	45.6	62.7	-17.1	
20.840	21.9	20.8	42.7	60.0	-17.3	
24.067	21.4	20.9	42.3	60.0	-17.7	
24.758	21.4	20.9	42.3	60.0	-17.7	
21.647	21.3	20.8	42.1	60.0	-17.9	
24.873	21.2	20.9	42.1	60.0	-17.9	
25.564	21.0	20.9	41.9	60.0	-18.1	
0.278	22.4	19.9	42.3	60.9	-18.6	
0.333	19.8	19.8	39.6	59.4	-19.8	
0.521	15.9	19.8	35.7	56.0	-20.3	
5.817	19.2	20.2	39.4	60.0	-20.6	
6.407	19.0	20.2	39.2	60.0	-20.8	
3.830	14.2	20.0	34.2	56.0	-21.8	
0.406	15.7	19.8	35.5	57.7	-22.2	

	Average	Data - vs	- Average	Limit	
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
24.000	21.8	20.9	42.7	50.0	-7.3
29.966	14.1	21.1	35.2	50.0	-14.8
27.523	13.3	21.0	34.3	50.0	-15.7
24.632	13.2	20.9	34.1	50.0	-15.9
26.601	13.1	21.0	34.1	50.0	-15.9
26.832	13.1	21.0	34.1	50.0	-15.9
25.323	13.1	20.9	34.0	50.0	-16.0
0.626	10.0	19.8	29.8	46.0	-16.2
18.007	13.2	20.6	33.8	50.0	-16.2
16.642	13.1	20.6	33.7	50.0	-16.3
18.029	11.5	20.6	32.1	50.0	-17.9
0.150	13.8	20.1	33.9	56.0	-22.1
3.794	2.8	20.0	22.8	46.0	-23.2
0.187	10.6	20.0	30.6	54.2	-23.6
0.516	2.5	19.8	22.3	46.0	-23.7
5.817	5.7	20.2	25.9	50.0	-24.1
3.276	1.8	20.0	21.8	46.0	-24.2
6.371	5.6	20.2	25.8	50.0	-24.2
13.519	5.1	20.4	25.5	50.0	-24.5
0.484	1.9	19.8	21.7	46.3	-24.6
2.507	1.3	20.0	21.3	46.0	-24.7
0.223	8.0	20.0	28.0	52.7	-24.7
0.736	1.2	19.9	21.1	46.0	-24.9
5.116	4.9	20.2	25.1	50.0	-24.9
0.272	6.0	19.9	25.9	51.1	-25.2

CONCLUSION

Pass

Tested By



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Agilent	N5181A	TIG	2020-04-16	2023-04-16
Cable	Micro-Coax	UFD150A-1-0720-200200	EVH	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Agilent	E4440A	AFE	2021-04-08	2022-04-08

TEST DESCRIPTION

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

If the transmit duty cycle < 98 percent, burst gating may have been used during some of the other tests in this report to only take the measurement during the burst duration.



							TbtTx 2021.03.19.	1 XMit 202
EUT: Serial Number:	SHOUT sp Handheld Ir	idium Smartphone				Work Order:	PCTE0003 25-May-21	
	NAL Research Corpora	ation				Temperature:		
Attendees:						Humidity:		
Project:						Barometric Pres.:		
	Jeff Alcoke		Power: 5.0 VDC via USB			Job Site:	EV06	
SPECIFICAT	IONS		Test Method					
15.247:2021			ANSI C63.10:2013					
MENTS								
	M TEST STANDARD							
			= 1					
guration #	3		T-//					
-		Signature	OAT Allen					
					Number of	Value	Limit	
			Pulse Width	Period	Pulses	(%)	(%)	Results
MHz - 2483.5	MHz Band 20 MHz							
	802.11(b)	1 Mbps						
	002.11(0)	Low Channel 1, 2412 MHz	32.953 ms	33.143 ms	1	99.4	N/A	N/A
		Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz	32.953 ms	33.143 ms	1	99.4	N/A	N/A
		Mid Channel 6, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 11, 2462 MHz High Channel 11, 2462 MHz	32.952 ms N/A	33.142 ms N/A	1 5	99.4 N/A	N/A N/A	N/A N/A
	802.11(b)		IN/A	IN/A	J	IN/A	IN/A	IN/A
	002.17(0)	Low Channel 1, 2412 MHz	3.171 ms	3.39 ms	1	93.6	N/A	N/A
		Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz	3.171 ms	3.39 ms	1	93.5	N/A	N/A
		Mid Channel 6, 2437 MHz	N/A 2.171 mg	N/A	5	N/A 93.6	N/A	N/A
		High Channel 11, 2462 MHz High Channel 11, 2462 MHz	3.171 ms N/A	3.39 ms N/A	1 5	93.6 N/A	N/A N/A	N/A N/A
	802.11(g)		1074	1077	5	10/1	10/1	14/74
	(3)	Low Channel 1, 2412 MHz	5.485 ms	5.707 ms	1	96.1	N/A	N/A
		Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz	5.484 ms	5.707 ms	1	96.1	N/A	N/A
		Mid Channel 6, 2437 MHz High Channel 11, 2462 MHz	N/A 5.485 ms	N/A 5.707 ms	5 1	N/A 96.1	N/A N/A	N/A N/A
		High Channel 11, 2462 MHz	N/A	N/A	5	90.1 N/A	N/A	N/A
	802.11(g)				Ŭ			
		Low Channel 1, 2412 MHz	932.47 us	1.155 ms	1	80.7	N/A	N/A
		Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz Mid Channel 6, 2437 MHz	931.701 us N/A	1.155 ms N/A	1 5	80.7 N/A	N/A N/A	N/A N/A
		High Channel 11, 2462 MHz	932.117 us	1.155 ms	1	80.7	N/A	N/A N/A
		High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
	802.11(g)							
		Low Channel 1, 2412 MHz	628.8 us	851 us	1	73.9	N/A	N/A
		Low Channel 1, 2412 MHz	N/A	N/A	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz Mid Channel 6, 2437 MHz	628.5 us N/A	851 us N/A	1 5	73.9 N/A	N/A N/A	N/A N/A
		High Channel 11, 2462 MHz	628.8 us	851 us	1	73.9	N/A	N/A
		High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
	802.11(n)	MCS0						
		Low Channel 1, 2412 MHz	4.577 ms	4.799 ms	1	95.4	N/A	N/A
		Low Channel 1, 2412 MHz Mid Channel 6, 2437 MHz	N/A 4.576 ms	N/A 4.799 ms	5	N/A	N/A	N/A
		Mid Channel 6, 2437 MHz Mid Channel 6, 2437 MHz	4.576 ms N/A	4.799 ms N/A	1 5	95.4 N/A	N/A N/A	N/A N/A
		High Channel 11, 2462 MHz	4.577 ms	4.799 ms	1	95.4	N/A	N/A
		High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
	802.11(n) l							
		Low Channel 1, 2412 MHz	493.7 us	716.2 us	1	68.9	N/A	N/A
		Low Channel 1, 2412 MHz Mid Channel 6, 2437 MHz	N/A 493.8 us	N/A 716.2 us	5 1	N/A 68.9	N/A N/A	N/A N/A
		Mid Channel 6, 2437 MHz Mid Channel 6, 2437 MHz	493.8 US N/A	716.2 us N/A	5	08.9 N/A	N/A N/A	N/A N/A
		High Channel 11, 2462 MHz	493.6 us	716.2 us	1	68.9	N/A	N/A
		High Channel 11, 2462 MHz	N/A	N/A	5	N/A	N/A	N/A
	40 MHz	4000						
	802.11(n) I	MCS0 Low Channel 1/5, 2422 MHz	2.225 ms	2.448 ms	1	90.9	N/A	N/A
		Low Channel 1/5, 2422 MHz	2.225 IIIS N/A	2.446 ms N/A	5	90.9 N/A	N/A N/A	N/A N/A
		Mid Channel 4/8, 2437 MHz	2.225 ms	2.448 ms	1	90.9	N/A	N/A
		Mid Channel 4/8, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 7/11, 2452 MHz	2.225 ms	2.448 ms	1	90.9	N/A	N/A
	000 44/->	High Channel 7/11, 2452 MHz	N/A	N/A	5	N/A	N/A	N/A
	802.11(n) l	MCS7 Low Channel 1/5, 2422 MHz	256 us	478.6 us	1	53.5	N/A	N/A
		Low Channel 1/5, 2422 MHz	N/A	478.6 us N/A	5	53.5 N/A	N/A N/A	N/A N/A
		Mid Channel 4/8, 2437 MHz	256 us	478.6 us	1	53.5	N/A	N/A
		Mid Channel 4/8, 2437 MHz	N/A	N/A	5	N/A	N/A	N/A
		High Channel 7/11, 2452 MHz	256.2 us	478.6 us	1	53.5	N/A	N/A
		High Channel 7/11, 2452 MHz	N/A	N/A	5	N/A	N/A	N/A



Pulse Width Period Pulses (%) Results 32.953 ms 33.143 ms 1 99.4 N/A N/A # Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak 1 99.4 N/A 0g 1 99.4 10.90 dBm 5 3 1 99.4 10.90 dBm 1 1 1 10.90 dBm 10.90 dBm 1 1 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 1 1 0 1 1 1 1 <th>Pulse Width Period Pulses (%) (%) Results 32.953 ms 33.143 ms 1 99.4 N/A N/A # Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm * Peak 1 1 10.90 dBm * Peak 1 1 10.90 dBm * Beak 1 1 1 1 Beak</th> <th></th> <th>2400 MHz - 2483.5</th> <th>5 MHz Band, 20</th> <th></th> <th></th> <th></th> <th>MHz</th>	Pulse Width Period Pulses (%) (%) Results 32.953 ms 33.143 ms 1 99.4 N/A N/A # Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm * Peak 1 1 10.90 dBm * Peak 1 1 10.90 dBm * Beak 1 1 1 1 Beak		2400 MHz - 2483.5	5 MHz Band, 20				MHz
32.953 ms 33.143 ms 1 99.4 N/A N/A ★ Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm #Peak 1 10.90 dBm Cog 1 10.90 dBm S 1 10.90 dBm Peak 1 1 10.90 dBm Peak 1 1 10.90 dBm S 1 10.90 dBm 10.90 dBm S 1 10.91 dm 10.91 dm B 1 1 1 1 1 B 1 1 1 1 1 1 1 1 1 B 1 1 1	32.953 ms 33.143 ms 1 99.4 N/A N/A # Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm #Peak 1 3 3 3 Log 3 3 3 3 3 3 GB/ 0 1 10.90 dBm 3 3 3 3 GB/ 1 3 3 3 3 3 3 3 3 BB/ 1 3 <td></td> <td>Dulas Width</td> <td>Deried</td> <td></td> <td></td> <td></td> <td>Deculto</td>		Dulas Width	Deried				Deculto
★ Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak 1 10.90 dBm *Peak 1 10.90 dBm GB/ 0 10.90 dBm Offst 23.2 1 dB 1 1 VAvg 1 1 WAvg 1 1 WB 300 kHz Sweep 50.24 ms (819	Agilent 09:37:18 May 25, 2021 R T Element Materials Technology Mkr3 34.14 ms Ref 17 dBm *Atten 10 dB 10.90 dBm *Peak 1 10.90 dBm Log 1 10.90 dBm 5 dB/ 1 10.90 dBm 6B/ 1 10.90 dBm 10.90 dBm 9 1 1 10.90 dBm 10.90 dBm 5 dB/ 1 10.90 dBm 10.90 dBm 5 1 1 10.90 dBm 10.90 dBm 5 dB/ 1 10.90 dBm 10.90 dBm 5 1 1 10.90 dBm 10.90 dBm 6B/ 1 1 1 10.90 dBm 9 1 1 1 1 1 8 10.91 dBm 10.91 dBm 10.91 dBm 10.91 dBm 4 VAvis 10.91 dBm 10.91 dBm 10.91 dBm 8 10.91 dBm 10.93 dBm 10.93 dBm 10.93 dBm <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak Log 5 dB/ Offst 23.2 dB *VAvg #VAvg #VAvg #VAvg M1 S2 Center 2.412 000 GHz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Element Materials Technology Mkr3 34.14 ms Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak Log 5 dB/ Offst 23.2 dB *VAvg #VAvg #VAvg #UAvg M1 S2 Center 2.412 000 GHz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm		02.000 113	55.1451115		55.4	19/7	19/75
Ref 17 dBm #Atten 10 dB 10.90 dBm #Peak	Ref 17 dBm #Atten 10 dB 10.90 dBm #Peak	🔆 Agilent 09:3	37:18 May 25,	2021			RT	
Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak 1 3	Ref 17 dBm #Atten 10 dB 10.90 dBm *Peak 1 1 1 1 Log 5 1 <td>Element Materials</td> <td>s Technology</td> <td></td> <td></td> <td></td> <td></td> <td>Mkr3 34.14 m</td>	Element Materials	s Technology					Mkr3 34.14 m
#Peak 3 3 1 <td>#Peak 3 3 3 Log 3 4 4 4 S B 4 4 4 4 Offst 23.2 B 4 4 4 4 #VAvg 4 4 4 4 4 4 4 #VAvg 4 4 4 4 4 4 4 4 #VAvg 4</td> <td></td> <td></td> <td>#Atten 10 d</td> <td>B</td> <td></td> <td></td> <td></td>	#Peak 3 3 3 Log 3 4 4 4 S B 4 4 4 4 Offst 23.2 B 4 4 4 4 #VAvg 4 4 4 4 4 4 4 #VAvg 4 4 4 4 4 4 4 4 #VAvg 4			#Atten 10 d	B			
55 dB/ dB	50 1	"Disals					.9	
5 dB/ 0ffst 0 </td <td>5 dB/ 0ffst 0<!--</td--><td>Log 🗴</td><td></td><td></td><td></td><td></td><td></td><td></td></td>	5 dB/ 0ffst 0 </td <td>Log 🗴</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Log 🗴						
Offst 23.2 dB Image: Construction of the second seco	Offst 23.2 dB		1 11 I V.			is children and the		a substances care as a
Offst 23.2 dB	Offst 23.2 dB	dB/						
23.2 dB dB dB dB #VAvg #VAvg dB dB dB	23.2 dB dB dB dB #VAvg #VAvg dB dB dB #VAvg dB dB dB dB W1 \$2 dB dB dB dB Center 2.412 000 GHz state Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Offst 🛛						
dB #VAvg #VAvg W1 S2 Center 2.412 000 GHz Res BW 3 MHz Marker Trace Type X Axis 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	dB #VAvg W1 S2 Center 2.412 000 GHz Res BW 3 MHz M1 S2 W1 S2 Center 2.412 000 GHz Res BW 3 MHz 1 (1) Time 993.4 µs 2 (1) Time 33.95 ms 10.48 dBm	23.2						
W1 S2 Span Hz Span Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	W1 S2 Center 2.412 000 GHz Res BW 3 MHz Marker Trace Type X Axis 1 (1) Time 993.4 μs 2 (1) Time 33.95 ms 10.48 dBm	dB						
W1 S2 Span Hz Span Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	W1 S2 Center 2.412 000 GHz Res BW 3 MHz Marker Trace Type X Axis 1 (1) Time 993.4 μs 2 (1) Time 33.95 ms 10.48 dBm							
W1 S2 Span Hz Span Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm							
W1 S2 Span Hz Span Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 50.24 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm							
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Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Center 2.412 00	0 GHz					Span 0 Hz
Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Marker Trace Type X Axis Amplitude 1 (1) Time 993.4 µs 10.93 dBm 2 (1) Time 33.95 ms 10.48 dBm	Res BW 3 MHz		#	VBW 300 kH	z	Sweep 50	.24 ms (8192 pts)
2 (1) Time 33.95 ms 10.48 dBm	2 (1) Time 33.95 ms 10.48 dBm	Marker Trac	e Type	Х	Axis	í	Amplitude	
3 (1) Time 34.14 ms 10.90 aBm	3 (1) TIME 34.14 MS 10.30 GBM							
		3 (1)	lime	34	4.14 ms	1	0.90 aBm	

2400 MHz - 2483.5 MHz Band, 20 MHz, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz										
			Number of	Value	Limit					
	Pulse Width	Period	Pulses	(%)	(%)	Results				
	N/A	N/A	5	N/A	N/A	N/A				

ement Materials To	echnology	~ 4	~ IB				
f 17 dBm eak		#Atten 1	0 dB			 1	1
g							
3/				.	 " "	<u>1 · ··································</u>	
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: VS							
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	2400 MHz - 2483	.5 MHz Band, 20) MHz, 802.11(b)			Hz
	D. J. M. M.	D evice 4	Number of	Value	Limit	Desertes
	Pulse Width 32.953 ms	Period	Pulses	(%) 99.4	(%)	Results N/A
	32.953 ms	33.143 ms		99.4	N/A	N/A
🔆 Agilent 09:	:49:22 May 25	, 2021			RT	
Element Materia						Mkr3 34.14 ms
Ref 17 dBm		#Atten 10 d	IB			12.08 dBm
#Peak 1					3	
Log	والتنابير اعتدر أنجيها والزائل والمروار	والمستند والمستند والالاري		و دی تا منصر او عمله از بهنا	A	والمحمد ومعار المترز والمترجع والمحمد ومقاراته
5						
dB/					-	
Offst					è	
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dB						
#VAvg						
W1 S2						
Center 2.437 0	00 GHz				- <mark> </mark>	Span 0 Hz
Res BW 3 MHz		•	∙VBW 300 kHz		Sweep 50.2	24 ms (8192 pts)
Marker Tra	се Туре		Axis		olitude	
1 (1	.) Time		93 . 6 µs		30 dBm	
2 (1			3.95 ms		30 dBm	
3 (1	.) Time	3.	4.14 ms	12.6	38 dBm	

	2400 MHz - 2483	.5 MHz Band, 20	MHz, 802.11(b)	1 Mbps, Mid Char	nnel 6, 2437 MHz	
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A

🔆 Agilent 09:49:30 M Element Materials Techno			RT	
Ref 17 dBm	#Atten 10 d	В		
#Peak Log				
5 dB/ dB/				
Offst 23.2 dB				
#VAvg				
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S3 VS				
£(f): FTun				
Center 2.437 000 GHz Res BW 3 MHz	#	VBW 300 kHz	Sweep 149	Span 0 Hz 6 ms (8192 pts).



	2700 1011 12 - 240	33.5 MHz Band, 20	Number of	Value	Limit	
	Pulse Width	n Period	Pulses	(%)	(%)	Results
	32.952 ms	33.142 ms	1	99.4	N/A	N/A
	02.002 110	0011121110		00.1		
🔆 Agilent	09:59:34 May (25,2021			RT	
Element Mate	rials Technology	y .				Mkr3 34.13 ms
Ref 17 dBm		#Atten 10 c	B			11.37 dBm
#Peak					3	
Log 🔒					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5 1						
dB/						
Öffst						
23.2						
dB						
#VAvg						
#vHvg						
W1 S2						
Center 2.462	2 000 GHz					Span 0 Hz
Res BW 3 MH			∗VBW 300 kH:	z	Sweep 50	.24 ms (8192 pts)
	Trace Type		Axis	Ĥm	plitude	
1	(1) Time		88.1 µs		50 dBm	
2	(1) Time		3.94 ms		05 dBm	
3	(1) Time	2 3	4.13 ms	11.	37 dBm	

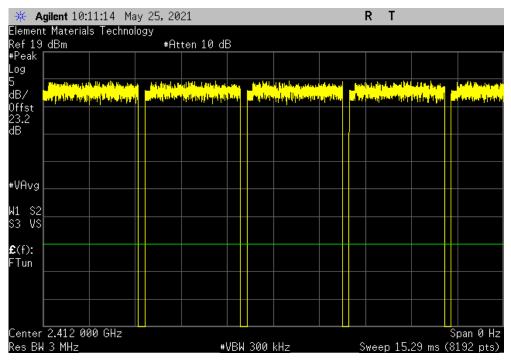
2	400 MHz - 2483.	5 MHz Band, 20 M	MHz. 802.11(b) 1	Mbps, High Char	nnel 11. 2462 MH	Z
		, -	Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A

ዡ Agilent 09:59:40 Element Materials Tec				RT	
Ref 17 dBm		n 10 dB			
#Peak Log					
5 dB/					
Offst 23.2 dB					
#VAvg					
W1 S2					
S3 VS					
£(f): FTun					
Center 2.462 000 GH: Res BW 3 MHz	Z	#VBW 300	kHz		Span 0 Hz 3 (8192 pts)



	2400 MHz - 2483.5	MHZ Band, 20	MHz, 802.11(b) Number of	11 Mbps, Lo Valu		1, 2412 № Limit	IHZ		
	Pulse Width	Period	Number of Pulses	valu (%)		Limit (%)		Resu	ulto
	3.171 ms	3.39 ms	Puises	93.6		(%) N/A		N/	
	3.1711115	3.39 115	1	93.0)	IN/A		IN//	A
🔆 Agilent 10:1	1:08 May 25,	2021			R	Т			
Element Materials	s Technology						Mk	(r3	4.39 ms
Ref 19 dBm		#Atten 10 d	IB						5.97 dBm
#Peak									
	udatus du	ويتقاربه فالمراجع والقرار الأ	ويحربه للداري المار التاري		al district to a	والعادير للمحد	a a hu		ويبدروا والمتراك
<u>ر س شایاد سنه مین</u>		الاسترجرا بالتنسل فريته وعيلته ورور							ىرى بەللى بايىرىلىدى. تورى بەللى بايىرىلىدى
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23.2							<u></u> 2-		
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#VAvg							_		
* 0110 g									
W1 S2									
Center 2.412 00	0 GHz							S	pan 0 Hz
Res BW 3 MHz	0 0112		ŧVBW 300 k⊦	17		Swaan	5 m		192 pts)
Marker Trac	е Туре		Axis	12	Amplitud		5 11	5 (0.	100 0(0)
1 (1)			99.9 µs		3.19 dE				
	τ.	4.	.171 ms		-3.42 dE 5.97 dE				
			4.39 ms						

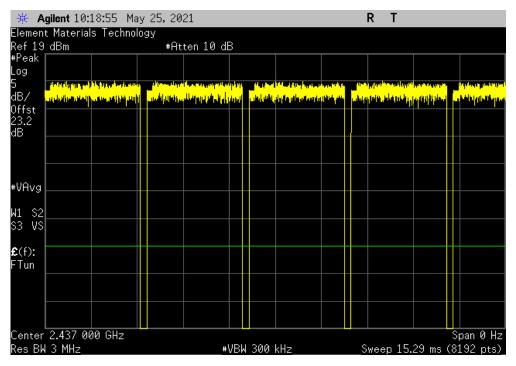
2	2400 MHz - 2483.	5 MHz Band, 20	MHz, 802.11(b) 1	1 Mbps, Low Cha	annel 1, 2412 MH	lz
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A





			Desite 4	Number o			Limit		
		Ilse Width 3.171 ms	2.39 ms	Pulses	(% 93.		(%) N/A		esults N/A
			0.00 113		55.	.0	11/7		
🔆 Agilen	t 10:18:44	4 May 25,	2021			R	Т		
Element Ma								Mkr3	4.39 m
Ref 19 dBm			#Atten 10 d	IB					4.97 dBm
#Peak	·								
Log	والمراجع التواجع المراجع	u d u.	taka lidi ashk ini ta tak fasha	والمراجع المراجع والمراجع والمراجع	alled Hillin des està :	ALL AND LODGED AND	edatations lab backura		والمراقد والأراب وري
	and the second second		فريعت وتقعق وريالي والم	يو <u>الريسة مان وراند وي.</u>	and a straight and the	يعتربة فواطل والتلاقي	a the state of the day	<u> </u>	كارية لأزيد والصياسي
dB/								δ ζ	\$ '
Offst 📃		\$							
23.2 🛏		l i							
dB 📃									
#VAvg 📥									
W1 S2									
Center 2.43	37 000 GH	-lz							Span 0 Hz
Res BW 3 M			•	VBW 300 k	Hz		Sweep 5		(8192 pts)
Marker	Trace	Туре		Axis		Amplitud			
1	(1)	Time		39.9 µs		0.10 dB			
2	(1) (1)	Time Time		4.17 ms 4.39 ms		4.78 dB 4.97 dB			
3	(1)	Time		4.39 MS		4.97 aB	m		

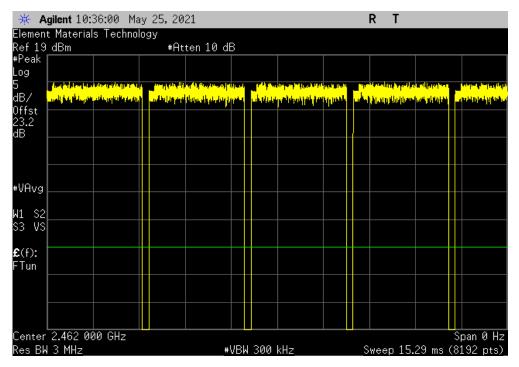
2400 MHz - 2483.	5 MHz Band, 20	MHz, 802.11(b) 1	1 Mbps, Mid Cha	innel 6, 2437 MH	Z
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A





24	100 MHz - 2483.5 MH	Iz Band, 20 N		1 Mbps, High Cha		MHz	
	Durlas MC 44	Desite 1	Number of	Value	Limit		D If a
· · · · · · · · · · · · · · · · · · ·	Pulse Width 3.171 ms	3.39 ms	Pulses	(%) 93.6	(%) N/A		Results N/A
	3.1711115	3.39 115	I	93.0	IN/A		N/A
🔆 Agilent 10:33	5:53 May 25, 2	021			RT		
Element Materials						Mk	r3 4. 39 ms
Ref 19 dBm		ltten 10 d	В				5.10 dBm
#Peak							
Log	العامرة أوراب	المدرا بالمقدل حاد العاد	فللماط ليبز مغاطية وأرياله			d Lådelen	
<mark>در همان در الله بال</mark>				والاحدادية والمتحاط أترجر بالارتحاط			اري ارتفاق کا محمد بارو
dB/							Å Í
Offst	•					Ţ	
0ffst 23.2 dB						- 5	
dB							
#VAvg						+	
W1 S2							
Center 2.462 000) GHz		· · · · · ·				Span 0 Hz
Res BW 3 MHz		#	VBW 300 kHz	2	Swee	o 5 m:	s (8192 pts)
Marker Trace	e Type		Axis		litude		
1 (1)	Time		99.9 µs		0 dBm		
2 (1) 3 (1)	Time		171 ms 4.39 ms		4 dBm 9 dBm		
3 (1)	Time		4.39 MS	5.1	0 dBm		

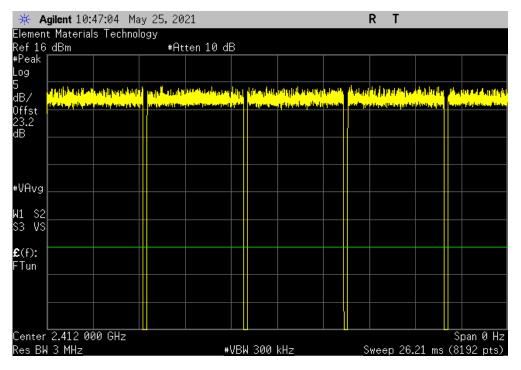
24	400 MHz - 2483.5	MHz Band, 20 M	/Hz, 802.11(b) 11	Mbps, High Cha	nnel 11, 2462 MH	łz	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





Puise Width Period Puise S Mass Endite 5.485 ms 5.707 ms 1 96.1 N/A N/A Comparison R T T State R T Element Materials Technology Mkr3 6.706 ms -2.75 dBm Ref 16 dBm #Atten 10 dB -2.75 dBm -2.75 dBm Log Image: State Image: State Image: State Image: State GB/ Image: State	Pulse Width Period Pulses (%) (%) Results 5.485 ms 5.707 ms 1 96.1 N/A N/A # Agilent 10:46:42 May 25, 2021 R T Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB -2.75 dBm Peak -2.75 dBm -2.75 dBm Gas -4.04 databaa -4.04 databaa Joint Materials -4.04 databaa -2.75 dBm B -4.04 databaa -2.75 dBm Gfst -4.04 databaa -4.04 databaa 23.2 -4.04 databaa -4.04 databaa dB -4.04 databaa -4.04 databaa WAvg -4.04 databaa -4.04 databaa WAvg <td< th=""><th></th><th>2400 MHz - 2483.5</th><th>MHz Band, 20 I</th><th>MHz, 802.11(g Number of</th><th></th><th></th><th>l 1, 2412 M Limit</th><th>1Hz</th><th></th><th></th></td<>		2400 MHz - 2483.5	MHz Band, 20 I	MHz, 802.11(g Number of			l 1, 2412 M Limit	1Hz		
5.485 ms 5.707 ms 1 96.1 N/A N/A # Agilent 10:46:42 May 25, 2021 R T Element Materials Technology Mkr3 6.706 ms -2.75 dBm #Peak #Atten 10 dB -2.75 dBm -2.75 dBm Sold Marker Trace Type X Axis Axis Axis Axis Marker Trace Type X Axis Axis Anite Marker Trace Type X Axis Anite Axis Anite Axis Axis Anite Axis Ax	5.485 ms 5.707 ms 1 96.1 N/A N/A ** Agilent 10:46:42 May 25, 2021 R T Element Materials Technology Mkr3 6.706 ms -2.75 dBm **Peak **Atten 10 dB -2.75 dBm -2.75 dBm **Peak **Atten 10 dB -2.75 dBm **Atten 10 dB 5 **Atten 10 dB -2.75 dBm **Atten 10 dB -2.75 dBm 6 **Atten 10 dB -2.75 dBm **Atten 10 dB -2.75 dBm 6 **Atten 10 dB -2.75 dBm **Atten 10 dB -2.75 dBm 6 **Atten 10 dB -2.75 dBm **Atten 10 dB -2.75 dBm 6 **Atten 10 dB -2.75 dBm **Atten 10 dB -2.75 dBm 6 **Atten 10 dB **Atten 10 dB **Atten 10 dB **Atten 10 dB 6 **Atten 10 dB **Atten 10 dB **Atten 10 dB **Atten 10 dB 8 8 7 7 7 7 7 8 8 8 8 8 8 <td></td> <td>Pulse Width</td> <td>Period</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Results</td> <td></td>		Pulse Width	Period						Results	
Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak	Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak		5.485 ms	5.707 ms	1					N/A	
Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak	Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak										
Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak Image: Standard Standar	Ref 16 dBm #Atten 10 dB -2.75 dBm #Peak	🔆 Agilent 10:4	l6:42 May 25, 3	2021			F	₹Т			
#Peak Image: Constraint of the standard of the s	#Peak Image: State of the description of th	Element Materials	s Technology						Mk	r3 6.7	706 ms
#Peak Image: Constraint of the standard of the s	#Peak Image: Constraint of the description	Ref 16 dBm	#	Atten 10 dE	3					-2.75	5 dBm
S Market	5 1 <th1< th=""> 1 1 1 1<td>#Peak</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th1<>	#Peak									
Second state Second state Second state Second state 0 Horizontal 0 Horizontal 0 Horizontal 0 Horizontal #VAvg 0 Horizontal 0 Horizontal 0 Horizontal #VAvg 0 Horizontal 0 Horizontal 0 Horizontal W1 S2 0 Horizontal 0 Horizontal 0 Horizontal Center 2.412 000 GHz Span 0 Hz Span 0 Hz Res BW 3 MHz #VBW 300 KHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	S Max Market	Log	and a state of the state								
0ffst 23.2 dB #VAvg W1 S2 Center 2.412 000 GHz Res BW 3 MHz M1 S2 Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	0ffst 23.2 dB #VAvg W1 S2 Center 2.412 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	5									1
0ffst 23.2 dB #VAvg W1 S2 Center 2.412 000 GHz Res BW 3 MHz M1 S2 Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	0ffst 23.2 dB ■ VAvg ■ VAvg W1 \$2 Center 2.412 000 GHz Res BW 3 MHz ■ VBW 300 kHz ■ VB	dB/			ik is talk a statu	L. Hall Here	որորու		nil.	(Platin Start	
23.2 dB w <	23.2 dB #VAvg #VAvg W1 \$2 Center 2.412 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	Offst	1 1					<	1 ⁹		
#VAvg Image: Constraint of the second s	#VAvg Image: Constraint of the second seco	23.2	¥						HŤ		
W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2 Span B Center 2.412 000 GHz Span 0 HZ Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	dB									
W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm										
W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2 Span B Center 2.412 000 GHz Span 0 HZ Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm										
W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm										
W1 S2 Span 0 Hz Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2 Span Hz Center 2.412 000 GHz Span 0 Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm <td>#VAva</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	#VAva									
Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	Center 2.412 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	- •110 y									
Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	Res BW 3 MHz #VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	W1 S2									
Marker Trace Type X Axis Amplitude 1 (1) Time 999 μs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	MarkerTraceTypeX AxisAmplitude1(1)Time999 µs-3.41 dBm2(1)Time6.484 ms-1.05 dBm	Center 2.412 00	0 GHz							Span	ı0Hz
Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs -3.41 dBm 2 (1) Time 6.484 ms -1.05 dBm	Res BW 3 MHz		#\	/BW 300 kH	Ηz	Sv	weep 8.1	91 m	s (8192	pts)
2 (1) Time 6.484 ms -1.05 dBm	2 (1) Time 6.484 ms -1.05 dBm	Marker Trac		Xf	ixís						
3 (1) Time 6.706 ms -2.75 dBm	3 (I) lime 6.706 ms -2.75 dBm										
		3 (1)	lime	6.7	UB MS		-2.75 d	BM			

	2400 MHz - 2483	.5 MHz Band, 20	MHz, 802.11(g)	6 Mbps, Low Cha	nnel 1, 2412 MHz	:	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





	2400 MHz - 2483	8.5 MHz Band, 20	MHz, 802.1 [°] Number		, Mid Chani alue	nel 6, 2437 Limit	MHz		
	Pulse Width	Period	Pulses		aiue [%)	(%)		Res	ults
	5.484 ms	5.707 ms	1		6.1	N/A		N/	
· · · · · · · · · · · · · · · · · · ·									
🔆 Agilent 10:5	8:51 May 25	, 2021				R T			
Element Materials	Technology							Mkr3	6.706 ms
Ref 19 dBm		#Atten 10 d	В						4.63 dBm
#Peak									
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5									
dB/ <mark>//////////</mark>	State of the second	and a state of the second second		and the second states of	deal dealers a	a de la la de l	ہ ہ	nd all the	a non de la la la
Offst 🛛									
23.2							╂─		
dB									
#VAvg									
W1 S2									
Center 2.437 00	0 GHz							S	Span 0 Hz
Res BW 3 MHz		#	VBW 300	kHz		Sweep 8.	191	ms (8	3192 pts)
Marker Trac		Х	Axis		Ampli	tude			
1 (1)	Time		999 µs		3.91				
2 (1) 3 (1)	Time Time		483 ms 706 ms		5.48	dBm dBm			
I 3 (1)	Time	6.	/06 MS		4.65	авт			

	2400 MHz - 2483	.5 MHz Band, 20	MHz, 802.11(g)	6 Mbps, Mid Char	nnel 6, 2437 MHz		
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	





Puise Width Period Number of Puises Value (%) Limit (%) Results 5485 ms 5.707 ms 1 96.1 N/A N/A # Agilent 11:12:08 May 25, 2021 R T Element Materials Technology #Atten 10 dB 0.71 dBm #Peak #Peak 0.71 dBm #Atten 10 dB 0.71 dBm 5 Mkr3 6.706 ms 2 2 4044 000 000 000 000 000 000 000 000 00	2	400 MHz - 2483.5 MHz	Band, 20 MHz, 802.11(g) 6 Mbps, High Chan	nel 11. 2462 MH	7
S.485 ms S.707 ms 1 96.1 N/A N/A # Agilent 11:12:08 May 25, 2021 R T Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB 0.71 dBm #Peak Image: Comparison of the stand of the stan						
Agilent 11:12:08 May 25, 2021 R T Element Materials Technology Mkr3 6.706 ms Ref 16 dBm *Atten 10 dB *Peak 0.71 dBm *Peak 0.71 dBm *B/ 0.71 dBm *VAvg 0.71 dBm *VBW 300 kHz Sweep 8.191 ms (8192 pts) Marker Trace Trace Type Y Avis Asy a Asy a -4.99 dBm<		Pulse Width F	Period Pulses	(%)	(%)	Results
Element Materials Technology Ref 16 dBm *Atten 10 dB 0.71 dBm *Peak Log 5 dB/ 0ffst 23.2 dB *VAvg W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs 0.71 dBm 2 (1) Time 6.484 ms -4.99 dBm		5.485 ms 5.	707 ms 1	96.1	N/A	N/A
Element Materials Technology Mkr3 6.706 ms Ref 16 dBm #Atten 10 dB 0.71 dBm #Peak						
Ref 16 dBm #Atten 10 dB 0.71 dBm #Peak Image: Constraint of the second of	🔆 🔆 Agilent 11:13	2:08 May 25, 202	21		RT	
*Peak It is each in the indicate protocol of the indicate of the indindicate of the indindindicate of the indica	Element Materials	Technology				Mkr3 6.706 ms
Log 5 dB/ 0 dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/	Ref 16 dBm	#Att	en 10 dB:			0.71 dBm
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S dB/ Offst 23.2 dB #VAvg #VAvg W1 S2 Center 2.462 000 GHz Res BW 3 MHz MHz M1 S2 Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs 2 (1) Time 6.484 ms -4.99 dBm		And a factor of the state of the state of the	i han ku alatat darkan kuma (kuma man mark	ومنصا الارتقاد ومنقولا والقار ويدود ورألاه	ىلىرىم ار يېلىنى يە	والما المروريان الأوريان مرور والمرار مرور والرام
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23.2 dB #VAvg #VAvg W1 \$2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs 0.71 dBm 2 (1) Time 6.484 ms -4.99 dBm		Sur de de alle and	h tailes k dide an ta	a which have a		and the first of the
dB #VAvg W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 999 µs 0.71 dBm 2 (1) Time 6.484 ms -4.99 dBm	Offst ' '				2	
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2 (1) Time 6.484 ms -4.99 dBm						
	3 (1/	TIME	0.700 ms	0.71	abiii	

2400 MHz - 2483.	5 MHz Band, 20 I	MHz, 802.11(g) 6	Mbps, High Chai	nnel 11, 2462 MH	Iz
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A

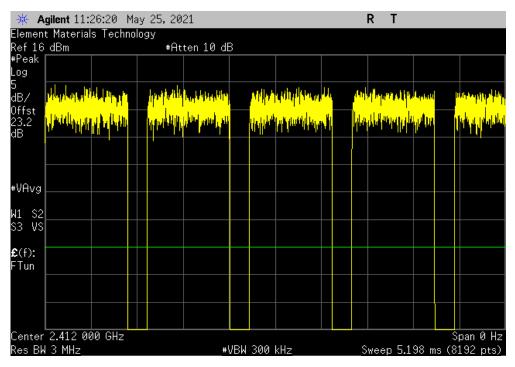
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ž	2400 MHz - 2483.5 M	/Hz Band, 20	MHz, 802.11(g)	36 Mbps, Low Ch	nannel 1, 2412 M	Hz	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Result	s
	932.47 us	1.155 ms	1	80.7	N/A	N/A	
* Agilent 11:2	6:14 May 25, 3	2021			RT		
Element Materials						Mkr3 2	.155 ms
Ref 16 dBm		Atten 10 d	B				11 dBm
#Peak							
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dB/ Magnarith lip		بولغاهر والم		وفاطيب تقاز وتنصر	and the second		
Offst				♦	\$ '		· 1
23.2 dB							
#VAvg							

W1 S2							
Center 2.412 00	0 GHz					Spa	an 0 Hz
Res BW 3 MHz		#	VBW 300 kH	z	Sweep	3 ms (819	
Marker Trac		Х	Axis	Amp	olitude		
			99.8 µs		12 dBm		
2 (1) 3 (1)			.932 ms .155 ms		45 dBm 41 dBm		
	111112	۷.	100 ms	-2	ar abm		

2	400 MHz - 2483.	5 MHz Band, 20 I	MHz, 802.11(g) 3	6 Mbps, Low Cha	annel 1, 2412 MH	Z	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





	2400 MHz - 2483.5 M	/Hz Band, 20	MHz, 802.11(g) 3	36 Mbps, Mid Ch	annel 6, 2437 Mł	Ηz	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	931.701 us	1.155 ms	1	80.7	N/A	N/A	
🔆 Agilent 11:3	34:42 May 25, 2	2021			RT		
Element Materials						Mkr3 2.1	55 ms
Ref 17 dBm	#	Atten 10 d	В			1.82	dBm
#Peak							
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Offst 🛛							
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Center 2.437 00	0 GHz					Span	0 Hz
Res BW 3 MHz		+	VBW 300 kHz		Sweep	3 ms (8192	
Marker Trac	e Type		Âxis		olitude		
	-		1 ms		'1 dBm		
1 (1)							
) Time		932 ms 155 ms		39 dBm 32 dBm		

2	2400 MHz - 2483.	5 MHz Band, 20	MHz, 802.11(g) 3	86 Mbps, Mid Cha	innel 6, 2437 MH	Z	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	





Pulse Width Period Pulses (%) (%) Results 932.117 us 1.155 ms 1 80.7 N/A N/A # Agilent 11:42:33 May 25, 2021 R T T Element Materials Technology Mkr3 2.155 ms Ref 16 dBm #Atten 10 dB 0.68 dBm 0.68 dBm #Peak Add and and and and and and and and and a	Pulse Width Period Pulses (%) (%) Results 932.117 us 1.155 ms 1 80.7 N/A N/A # Agilent 11:42:33 May 25, 2021 R T lement Materials Technology Mkr3 2.155 ms ef 16 dBm #Atten 10 dB 0.68 dBm Peak 0 0.68 dBm 09 0 0.68 dBm 0.68 dBm B/ 0 0.040400000000000000000000000000000000	Pulse Width Period Pulses (%) (%) Results 932.117 us 1.155 ms 1 80.7 N/A N/A Agilent 11:42:33 May 25, 2021 R T T Element Materials Technology Mkr3 2.155 ms 0.68 dBm #Peak #Atten 10 dB 0.68 dBm 0.68 dBm Bd/ #Unit of the hyperiod of the hyp	2	400 MHz - 2483.5 MH	12 Danu, 20 N	Number of	Value	Limit	1112
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Idement Materials Technology Mkr3 2.155 ms ief 16 dBm #Atten 10 dB 0.68 dBm og additional and the part of the base of th	Idement Materials Technology Mkr3 2.155 ms ief 16 dBm #Atten 10 dB 0.68 dBm Peak Image: Constraint of the second sec	Idement Materials Technology Mkr3 2.155 ms ief 16 dBm #Atten 10 dB 0.68 dBm Peak Image: Comparison of the second data of the		932.117 us	1.155 ms	1	80.7	N/A	N/A
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Ref 16 dBm #Atten 10 dB 0.68 dBm #Peak	ef 16 dBm #Atten 10 dB 0.68 dBm 09 0	Ref 16 dBm #Atten 10 dB 0.68 dBm #Peak			021			RT	
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dB/ db/ <td>BZ BZ BZ BZ BZ BZ BZ 3.2 3.2 3.2 3.2 3.2 3.2 3.2 B 3.2 3.2 3.2 3.2 3.2 3.2 VAvg 3.2 3.2 3.2 3.2 3.2 Marker Trace Type X.8xis Amplitude 1 1.3 1.932 8.06 0.2</td> <td>dB/ db/ db/<td>Log</td><td>the state of the state of the state of</td><td><u>s.1.a.</u></td><td>أأترو فرجنا لتربية النواكر</td><td>Lat. Care Station</td><td>الباباللور وليل</td><td>الأبنين المقططة أشقه والملومينان</td></td>	BZ BZ BZ BZ BZ BZ BZ 3.2 3.2 3.2 3.2 3.2 3.2 3.2 B 3.2 3.2 3.2 3.2 3.2 3.2 VAvg 3.2 3.2 3.2 3.2 3.2 Marker Trace Type X.8xis Amplitude 1 1.3 1.932 8.06 0.2	dB/ db/ <td>Log</td> <td>the state of the state of the state of</td> <td><u>s.1.a.</u></td> <td>أأترو فرجنا لتربية النواكر</td> <td>Lat. Care Station</td> <td>الباباللور وليل</td> <td>الأبنين المقططة أشقه والملومينان</td>	Log	the state of the state of the state of	<u>s.1.a.</u>	أأترو فرجنا لتربية النواكر	Lat. Care Station	الباباللور وليل	الأبنين المقططة أشقه والملومينان
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23.2 dB #VAvg #VAvg W1 S2 Center 2.462 000 GHz Res BW 3 MHz MHz Marker Trace Type X Axis Amplitude 1 (1) Time 1.ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	3.2 B<	23.2 dB #VAvg #VAvg W1 S2 Center 2.462 000 GHz Res BW 3 MHz MHz Marker Trace Type X Axis 1 (1) Time 1.932 ms 0.06 dBm 2 (1) Time 1.932 ms 0.06 dBm		Indiana delar	• • • • • • • • • • • • • • • • • • •				al e nation de service de
dB #VAvg #VAvg W1 \$2 Center 2.462 000 GHz Res BW 3 MHz MHz Marker Trace Type X Axis 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	B Image: Constraint of the second s	dB #VAvg #VAvg W1 \$2 Center 2.462 000 GHz Res BW 3 MHz MHz Marker Trace Type 1 (1) Time 2 (1) Time 1.932 ms 0.06 dBm 0.00 dBm	23.2						
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W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	1 S2 Span 0 Hz Lenter 2.462 000 GHz Span 0 Hz Les BW 3 MHz #VBW 300 kHz Sweep 3 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.86 dBm	W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis 1 (1) Time 1 ms 8.70 dBm 2 (1) Time 1.932 ms 0.86 dBm							
W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	1 S2 Span 0 Hz Lenter 2.462 000 GHz Span 0 Hz Les BW 3 MHz #VBW 300 kHz Sweep 3 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.86 dBm	W1 S2 Center 2.462 000 GHz Res BW 3 MHz Marker Trace Type X Axis 1 (1) Time 1 ms 8.70 dBm 2 (1) Time 1.932 ms 0.86 dBm							
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Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm	Marker Trace Type X Axis Amplitude 1 (1) Time 1 ms 0.70 dBm 2 (1) Time 1.932 ms 0.06 dBm		0 GHz				<u>^</u>	
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2 (1) Time 1.932 ms 0.06 dBm	2 (1) Time 1.932 ms 0.06 dBm	2 (1) Time 1.932 ms 0.06 dBm			Х				
3 (1) Time 2.155 ms 0.68 dBm	3 (1) Time 2.155 ms 0.68 dBm 	3 (1) Time 2.155 ms 0.68 dBm		Time		.932 ms	0.0	16 dBm	
			3 (1)	Time	2.	.155 ms	0.6	68 dBm	

24	400 MHz - 2483.5	6 MHz Band, 20 M	/Hz, 802.11(g) 36	6 Mbps, High Cha	nnel 11, 2462 Mł	Ηz
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A





2400 MHz - 2483.5 MHz Band, 20 MHz, 802.11(0) 54 Mbps, Low Channel 1, 2412 MHz Number of Value Limit Puises Width Period Puises (%) (%) Results 628.8 us 851 us 1 73.9 N/A N/A R T Element Materials Technology Mkr3 999.9 µs Ref 16 dBm #Atten 10 dB -6.53 dBm Peak 0 <th>Pulse Width Period Pulses (%) C/%) Results 628.8 us 851 us 1 73.9 N/A N/A # Agilent 11:56:43 May 25, 2021 R T Element Materials Technology Mkr3 999.9 µs Ref 16 dBm #Atten 10 dB -6.53 dBm ** Peak -6.53 dBm -6.53 dBm -6.53 dBm 00g -6.53 dBm -6.53 dBm -6.53 dBm 68/ -6.53 dBm -6.53 dBm -6.53 dBm **Peak -6.53 dBm -6.53 dBm -6.53 dBm 00g -6.53 dBm -6.53 dBm -6.53 dBm 010g -6.53 dBm -6.53 dBm -6.53 dBm 010g -6.53 dBm -6.53 dBm -6.53 dBm 01111 -6.53 dBm -6.53 dBm -6.53 dBm <t< th=""><th>Pulse Width Period Number of Pulses Value (%) Limit (%) 628.8 us 851 us 1 73.9 N/A N/A Agilent 11:56:43 May 25, 2021 R T Element Materials Technology Mkr3 999.9 p Ref 16 dBm #Atten 10 dB -6.53 dBr Peak Image: Comparison of the point of th</th></t<></th>	Pulse Width Period Pulses (%) C/%) Results 628.8 us 851 us 1 73.9 N/A N/A # Agilent 11:56:43 May 25, 2021 R T Element Materials Technology Mkr3 999.9 µs Ref 16 dBm #Atten 10 dB -6.53 dBm ** Peak -6.53 dBm -6.53 dBm -6.53 dBm 00g -6.53 dBm -6.53 dBm -6.53 dBm 68/ -6.53 dBm -6.53 dBm -6.53 dBm **Peak -6.53 dBm -6.53 dBm -6.53 dBm 00g -6.53 dBm -6.53 dBm -6.53 dBm 010g -6.53 dBm -6.53 dBm -6.53 dBm 010g -6.53 dBm -6.53 dBm -6.53 dBm 01111 -6.53 dBm -6.53 dBm -6.53 dBm <t< th=""><th>Pulse Width Period Number of Pulses Value (%) Limit (%) 628.8 us 851 us 1 73.9 N/A N/A Agilent 11:56:43 May 25, 2021 R T Element Materials Technology Mkr3 999.9 p Ref 16 dBm #Atten 10 dB -6.53 dBr Peak Image: Comparison of the point of th</th></t<>	Pulse Width Period Number of Pulses Value (%) Limit (%) 628.8 us 851 us 1 73.9 N/A N/A Agilent 11:56:43 May 25, 2021 R T Element Materials Technology Mkr3 999.9 p Ref 16 dBm #Atten 10 dB -6.53 dBr Peak Image: Comparison of the point of th
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			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	

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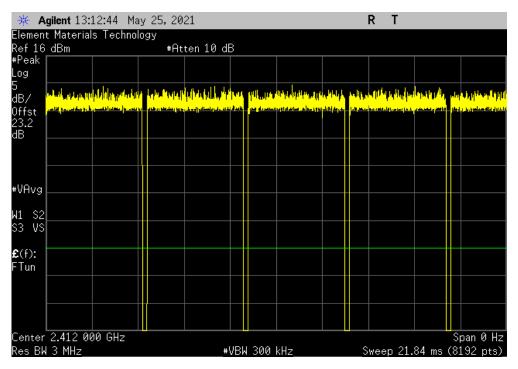
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	2400 MHz - 2483	8.5 MHz Band, 20			nnel 1		z	
			Number of	Value		Limit	_	
	Pulse Width	Period	Pulses	(%)	r	(%)	Res	
	4.577 ms	4.799 ms	1	95.4		N/A	N/	A
🔆 Agilent 13:1		, 2021			R	Т		
Element Materials	; Technology						Mkr3	5.797 ms
Ref 16 dBm		#Atten 10 d	В				ĺ,	0.36 dBm
#Peak								
Log		allane, B. J. (b. Law Irea).	tal commun	l. a ar ar	+	L	arti all	لللارية بالروامية.
	and the second second second		of the state of the state					
o dB/ <mark>//^{w////}////</mark>		والمتأثر الأوالية أوالعا أأتريكم الم	and bridge at the part		3	ange pleine	a di bili seta	<mark>priktinistan</mark>
Offst	4				ļ			
23.2	<u> </u>				è ++-			
dB								
					┼┼			
					+++			
#VAvg								
#VHVY								
W1 S2								
Center 2.412 00	й GHz		II				S	, pan 0 Hz
Res BW 3 MHz	0 0112	#	VBW 300 kHz		Swe	eep 8.19		192 pts)
Marker Trac	e Type	Х	Axis	Ĥmp	litud			
1 (1)			998 µs	-3.7				
2 (1)	Time Time		575 ms 797 ms	-5.3	0 dB 6 dB			
3 (1)								

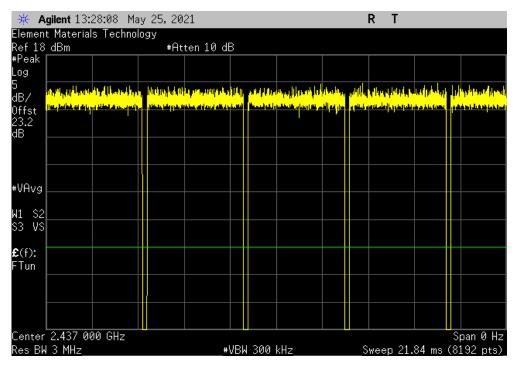
	2400 MHz - 2483	3.5 MHz Band, 20) MHz, 802.11(n)	MCS0, Low Char	nnel 1, 2412 MHz		
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





	Pulse Width	Devied	Number of			Limit	Dee	
	4.576 ms	Period 4.799 ms	Pulses 1	(%) 95.4		(%) N/A	N	ults /A
I	1.0101110		L '		• 1	1 1// 1		
🔆 Agilent 13:2	8:00 May 25,	2021				RΤ		
Element Materials	Technology						Mkr3	5.798 ms
Ref 18 dBm		#Atten 10 c	IB					5.30 dBm
Peak								
.0g	والفاري يساليه والمار	وأردانا فعرار والمتعاد والمتعا	المستعقبة والترابيط	اربط والعالية والمحال	. Landa and a	Achilada Mata	ى من ي في الله، ول ال	A Likholana k
		n i ta an an an an an an an an				2 C		
107 P - 1		the second s	a de sel le a	a table is a sub-			n hilling	
Offst								
23.2 dB								
	<u> </u>							
#VAvg								
W1 S2								
Center 2.437 00	0 GHz							Span 0 Hz
Res BW 3 MHz		+	ŧVBW 300 I	kHz	S	weep 8.1	91 ms (8	3192 pts)
Marker Trac			Axis		Amplite			
1 (1)			999 µs		2.79			
2 (1) 3 (1)	Time Time		.575 ms .798 ms		5.53 (5.30 (
· (1)					0.00	A 2-11		

2400 MHz - 248	3.5 MHz Band, 20	0 MHz, 802.11(n)	MCS0, Mid Char	nel 6, 2437 MHz	
		Number of	Value	Limit	
 Pulse Width	Period	Pulses	(%)	(%)	Results
N/A	N/A	5	N/A	N/A	N/A





Pulse Width Period Pulses (%) (%) Results 4.577 ms 4.799 ms 1 95.4 N/A N/A Agilent 13:40:57 May 25, 2021 R T Element Materials Technology Mkr3 5.798 Ref 17 dBm #Atten 10 dB 1.08 dB Peak 1.08 dB 1.08 dB 1.08 dB Peak 1.01 dBm 1.08 dB 1.08 dB MB/ 1.01 dB 1.08 dB 1.08 dB Peak 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm IBB/ 1.01 dBm 1.01 dBm 1.01 dBm 1.01 dBm <th></th> <th></th> <th></th> <th>Number o</th> <th></th> <th></th> <th>Lir</th> <th></th> <th></th> <th></th> <th></th>				Number o			Lir				
Agilent 13:40:57 May 25, 2021 R T Element Materials Technology Mkr3 5.798 Ref 17 dBm #Atten 10 dB Peak 1.08 dB .09				Pulses							-
ement Materials Technology Mkr3 5.798 af 17 dBm #Atten 10 dB 1.08 dE Peak 19 3/ 1/////////////////////////////////		4.577 ms	4.799 ms	1	95.	.4	N/	/A	N	J/A	
ef 17 dBm #Atten 10 dB 1.08 dE Peak og B/ ffst 3.2 B A A A A A A A A A A A A A			5,2021				R	Т			
Peak og B/ Hallinshind	lement Material	s Technology							Mkr3	5.798	3 ms
	Ref 17 dBm		#Atten 10 d	B						1.08 d	lBm
Maximum	Peak										
	.0g		and Lances	المراجع والمراجع		. Lat. where			والمرابي المان	s	Lacat I
Dffst 23.2 HB										1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
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23.2 JB	Offst	1					Ĭ				
	23.2					Ť,					
VAvg	ав					Ť					
VAvg											
VAvg											
VAvg											
	#VAvg										
	W1 S2										
Center 2.462 000 GHz Span 0 H		00 GHz									
Res BW 3 MHz ===================================	Res BW 3 MHz		#	•VBW 300 k	:Hz		Sweep	8.19)1 ms (8	8192 p	its)
Marker Trace Type X Axis Amplitude											
1 (1) Time 999 µs -2.85 dBm											
2 (1) Time 5.576 ms -6.96 dBm 3 (1) Time 5.798 ms 1.08 dBm				.576 ms .798 ms							
	$\begin{vmatrix} 2 \\ 3 \\ (1) \end{vmatrix}$										

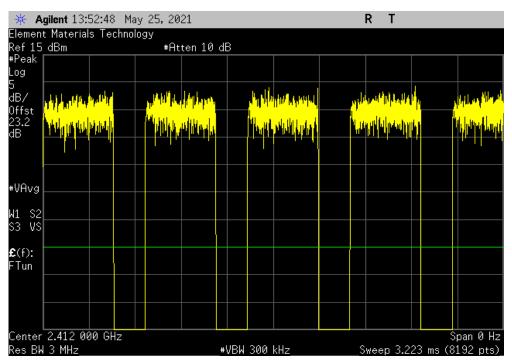
:	2400 MHz - 2483.	.5 MHz Band, 20	MHz, 802.11(n) M	MCS0, High Chan	nel 11, 2462 MH	Z
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A





ment Materials Technology f 15 dBm *Atten 10 dB -6.25 dBm eak st st 2 Avg s2 s2 s BW 3 MHz *VBW 300 kHz Sweep 1 ms (8192 pts)				Number of			imit		
Agilent 13:52:32 May 25, 2021 R T ment Materials Technology Mkr3 816.3 µs f 15 dBm *Atten 10 dB eak -6.25 dBm ist -6.25 dBm									
ment Materials Technology f 15 dBm *Atten 10 dB -6.25 dBm eak st st 2 Avg s2 s2 s BW 3 MHz *VBW 300 kHz Sweep 1 ms (8192 pts)		493.7 us	716.2 us	1	68.9	9 N	J/A	N/A	4
f 15 dBm +Atten 10 dB -6.25 dBm eak st 2 Avg s2 s2 s2 s2 s2 s2 s2 s2 s2 s2			. 2021			R	т		
eak 3 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	lement Materials	s Technology						Mkr3	816.3 µ s
eak 3 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7	Ref 15 dBm		#Atten 10 d	В				-6	.25 dBm
st <	ŧPeak								
st 2 Avg s2 s2 nter 2.412 000 GHz s BW 3 MHz *VBW 300 kHz Sweep 1 ms (8192 pts)	.og	<u> </u>							
st 2 Avg s2 s2 nter 2.412 000 GHz s BW 3 MHz *VBW 300 kHz Sweep 1 ms (8192 pts)	5	الأوار خدريانا أمار أأتأر فرعني	الألبادية عقرانيا البر	د (الدر والمروادي ال	, pailed for the			و زراليول ور.	pplobal (19
2 • • • • Avg • • • • Avg • • • • S2 • • • • nter 2.412 000 GHz • • • s BW 3 MHz • • •	dB/ 🕴 🧗	and the court of a f	والأفا وبالأر والروالية الأوا	al a dhille a suit dha	addinate all			and a diffe	وخالمه بالعر وأرس
2 • • • • Avg • • • • Avg • • • • S2 • • • • nter 2.412 000 GHz • • • s BW 3 MHz • • •	Offst 🗧 🕯				·· ·· ·· ·		3	1	1.1
Avg S2 S2 Inter 2.412 000 GHz S BW 3 MHz Sweep 1 ms (8192 pts)	23.2	`		+					
S2	IB			ļ					
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nter 2.412 000 GHz Span 0 Hz s BW 3 MHz #VBW 300 kHz Sweep 1 ms (8192 pts)	01109								
nter 2.412 000 GHz Span 0 Hz s BW 3 MHz #VBW 300 kHz Sweep 1 ms (8192 pts)	1 \$2								
s BW 3 MHz #VBW 300 kHz Sweep 1 ms (8192 pts)		0 GHz						St	oan 0 Hz
			#	VBW 300 ki	17	S	ween 1		
	Marker Trac	e Type				Amplitude	1000 1		.oc p.o/
1 (1) Time 100.1 µs -5.62 dBm									
2 (1) Time 593.8 µs -7.23 dBm									
3 (1) Time 816.3 µs -6.25 dBm	2 /1 \	Time	81	l6.3 μs		-6.25 dBm			

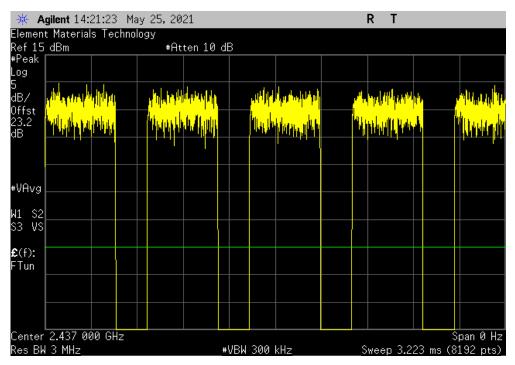
2400 MHz - 2483	3.5 MHz Band, 20) MHz, 802.11(n)	MCS7, Low Char	nnel 1, 2412 MHz		
		Number of	Value	Limit		
 Pulse Width	Period	Pulses	(%)	(%)	Results	
N/A	N/A	5	N/A	N/A	N/A	





	2100 1012 2100		Number of	Value	Channel 6, 243			
	Pulse Width	Period	Pulses	(%)	(%		Results	
	493.8 us	716.2 us	1	68.9	N/A		N/A	
★ Agilent 14:2 lement Materials lef 15 dBm Peak		, 2021 #Atten 10 d	B		RT		(r3 816.) -6.75 (
og B/ ffst 3.2 B		11. 1991 - Angel Alexandro 1991 - Angel Alexa				*		
#VAvg W1 S2 Center 2.437 00	0.011-						Span @	
	0 GHZ		UDU 200 LU	I_	e	1		
Res BW 3 MHz Marker Trac 1 (1) 2 (1) 3 (1)	Time Time	X 10 59	√VBW 300 kH Axis 00.1 µs 03.9 µs L6.3 µs		5W Amplitude -6.96 dBm -8.12 dBm -6.75 dBm	eep 1 m	ns (8192 p	its)

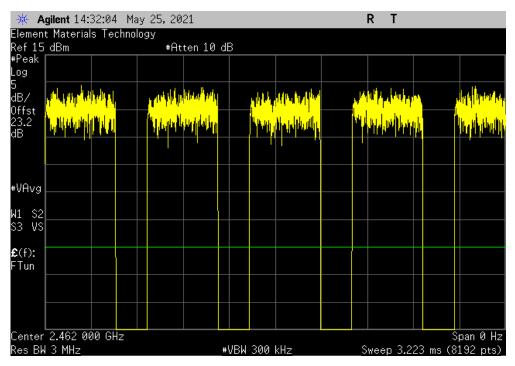
	2400 MHz - 2483	3.5 MHz Band, 20	0 MHz, 802.11(n)	MCS7, Mid Chan	nel 6, 2437 MHz		
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	493.6 us	716.2 us	1	68.9	N/A	N/A	
🔆 Agilent 14:3	31:52 May 25	, 2021			RT		
Element Materials	s Technology					Mkr3 816	i.3 µ s
Ref 15 dBm		#Atten 10 d	В			-5.08	
#Peak							
Log							
5	والرابية والمتحاد أوأليان وتنب	وروالي المراجع والمراجع المراجع المراجع	الرف المراجعة والالا	all the last		النال بالبطاني وبني	ير الب
dB/ /	and the data and heating the part	والافلالية والمراهين والاردار	يرييا الاغترة المفراران				dia di di
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23.2			· · · · ·	£		•	<u>'</u>
B				Ϋ́			
						/	
VAvg				1			
J1 S2							
Center 2.462 00	0 GHz		<u> </u>	l		Span	0 Hz
Res BW 3 MHz		+	VBW 300 kH	7	Swee	ep 1 ms (8192	
Marker Trac	e Type		Axis		Amplitude	op 1 mo (0100	10.007
1 (1)			0 . 1 µs		-5.24 dBm		
		59	33.7 µs		-7.22 dBm		
2 (1) 3 (1)			l6.3 µs		-5.08 dBm		

2	2400 MHz - 2483.	5 MHz Band, 20	MHz, 802.11(n) M	MCS7, High Chan	nel 11, 2462 MH	Z	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	_
	N/A	N/A	5	N/A	N/A	N/A	





2	2400 MHz - 2483.5	MHz Band, 40	MHz, 802.11(n)	MCS0 , Low Chanr	nel 1/5, 2422 M	IHz
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	2.225 ms	2.448 ms	1	90.9	N/A	N/A
Agient 15:1 Element Materials Ref 9 dBm #Peak Log 5 dB/ 0ffst 23.2 dB	1:02 May 25, Technology	2021 #Atten 10 d	Kulahéné katala		R T	Mkr3 3.448 m -14.23 dBm
#VAvg						
W1 S2						
Center 2.422 00	0 GHz					Span 0 Hz
Res BW 3 MHz		#	∙VBW 300 kH	lz	Sweep	4 ms (8192 pts)
Marker Trac 1 (1) 2 (1) 3 (1)	Time Time	X 1. 3.	Axis 001 ms 226 ms 448 ms	Ampli -13.37 -10.93 -14.23	tude 'dBm :dBm	

2	2400 MHz - 2483.	5 MHz Band, 40	MHz, 802.11(n) N	ICS0 , Low Chan	nel 1/5, 2422 MH	Z
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A

ef 9 d	dBm		#At	ten 10 dE	3									
^p eak Dg														
37	յ <mark>ել</mark> կա <mark>ննանին։</mark>	and the trails	<mark>hundhall</mark> yr	han a shall sha shal	ļ	<mark>Ny Kadolan</mark>		P <mark>P</mark>	<mark>rti</mark> nte	Andres	<mark>dhaq</mark>	۱۱۰۰,	a di ha	delanda da
ffst 3.2 3	an ha ha ha	ter good top	and a star	adiata para		րիարի	rtal ⁱ ntas	1d	antan (<mark>, halada</mark>	<mark>" </mark> "r"lr	1 ^{thus}	p"rdi	a an
lAvg														
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			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	2.225 ms	2.448 ms	1	90.9	N/A	N/A
🔆 🔆 Agilent 15:2	24:38 May 25,	, 2021			RT	
Element Materials						Mkr3 3.448 ms
Ref 13_dBm		#Atten 10 d	В			-9.10 dBm
#Peak						
		ويطرفه ومعادية وألار	فليستعوار باورو انظهروا	dillow about the state		ويحدرني أباب وحرار وجار
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Offst			i i data da fata i		¢	<u> </u>
23.2						<mark>#</mark>
23.2 dB						
#VAvg						
W1 S2						
Center 2.437 00	0 GHz					Span 0 Hz
Res BW 3 MHz	0 0112	#	VBW 300 kHz		Sween	4 ms (8192 pts)
Marker Trac	е Туре		Axis		itude	- mo (oror pro)
1 (1)			001 ms		3 dBm	
2 (1) 3 (1)			226 ms 448 ms	-3.91 -9.16		
ů (±/			440 119	5.11		

2	2400 MHz - 2483.	5 MHz Band, 40	MHz, 802.11(n) N	MCS0 , Mid Chan	nel 4/8, 2437 MH	Z	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	

		s Techno			_						
ef 13	dBm		#At	ten 10 dE	3						
Peak og											
B/	Millio di Lochi	Albert Albert	dit mandat	l latha an ballatan.	in the star	a dhatata an	AL ATAN	And the second secon	<mark>halisahili</mark>	l'and a	litte, telant
ffst 3.2 B	a) a daga ta fa			heel heer a		and	n n' <mark>j'n n</mark> i	ar lipel ou	(nanta)	, dai pa	
VAvg											
3 VS											
(f): Tun											



	2	2400 MHz - 2483.	5 MHz Band, 40				62 MHz		
				Number of	Value	Limit			
		Pulse Width	Period	Pulses	(%)	(%)		Results	_
		2.225 ms	2.448 ms	1	90.9	N/A		N/A	
	-	33 : 32 May 2!	5,2021			RT			
		s Technology					Mk	r3 3 . 44	
Ref 9			#Atten 10	dB				-14.43	dBm
#Peak									
Log	N. ALMAN	Land Hall and a	the subscription of the	والمراجع والمراجع	attal and but	وأستعدل والأراط ومرارعه	11-1	سرار الار أربقهن	a na akata
5 dB/	a fla literation at a de	al algorithm		e i se 🕶 la trata					4.44.16
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23.2								- <mark>#</mark>	
dB			φ <mark>ι</mark>				ف	•	
40									
				+					
#VAvg									
W1 S2									
	r 2.452 00	10 GHz						Span (0 Hz
Res Bl	W 3 MHz			#VBW 300 kH	łz	Swee	ep4m	is (8192 j	
Mar				(Axis		Implitude			
1				L.001 ms		3.17 dBm			
2				3.226 ms 3.448 ms		5.06 dBm 4.43 dBm			
3	(1)	, ime	;	3.448 MS	-1,	4.43 abm			

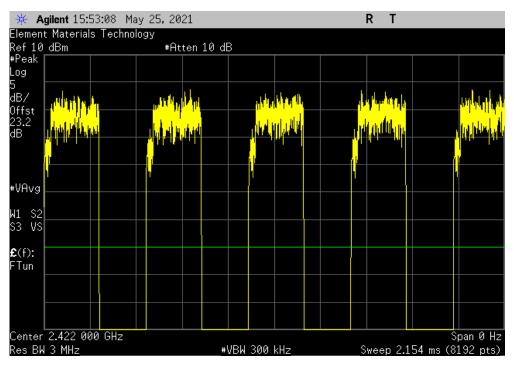
24	400 MHz - 2483.5	6 MHz Band, 40 M	/Hz, 802.11(n) M	CS0, High Chanr	nel 7/11, 2452 MF	lz
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A

ef9 d Peak ∣	dBm		#At	ten 10 dE	3						1		
og													
B/	Att his days	dinal di a Marak	<u>III steptus</u>	un hall hall		liter lev	Not contract	<mark>(K</mark> a	المالية	lan in all i	Hele I	u II	de la La folla
ffst 3.2 B	And the second s	ulanihanh		outer of the set			al an		nolaalen 	end at a		hittig	<mark>n f</mark> olgiliti
VAvg													
1 S2 3 VS													
(f): Tun													



Pulse Width Period Pulses (%) Results 256 us 478.6 us 1 53.5 N/A N/A # Agilent 15:52:50 May 25, 2021 R T Element Materials Technology #Atten 10 dB -13.68 dBm -13.68 dBm # 6 al. #Atten 10 dB -13.68 dBm -13.68 dBm 5 #Hten 10 dB -13.68 dBm -13.68 dBm 6 478.6 us -14.68 dBm -13.68 dBm ** How and any adjust of the price of the	Pulse Width Period Pulses (%) (%) Results 256 us 478.6 us 1 53.5 N/A N/A Agilent 15:52:50 May 25, 2021 R T Element Materials Technology #Atten 10 dB -13.68 dBm #Peak -13.68 dBm -13.68 dBm Uog -144.64 dBm -144.64 dBm VA -144.64 dBm -13.68 dBm	2	2400 MHz - 2483.5 N	1Hz Band, 40	MHz, 802.11(n)	MCS7 , Low Chanr	nel 1/5, 2422 MH	Ηz
Z56 us 478.6 us 1 53.5 N/A N/A Agilent 15:52:50 May 25, 2021 R T Element Materials Technology Mkr3 579.1 µs Ref 10 dBm #Atten 10 dB -13.68 dBm #Peak	Z56 us 478.6 us 1 53.5 N/A N/A Agilent 15:52:50 May 25, 2021 R T Element Materials Technology Mkr3 579.1 µs Ref 10 dBm #Atten 10 dB -13.68 dBm #Peak -13.68 dBm -13.68 dBm Log -144 and				Number of	Value	Limit	
Agilent 15:52:50 May 25, 2021 R T Element Materials Technology Mkr3 579.1 µs Ref 10 dBm +Atten 10 dB *Peak -13.68 dBm Log -13.68 dBm 5 -44.00 µm 40 µm 4	Agilent 15:52:50 May 25, 2021 R T Element Materials Technology Mkr3 579.1 µs Ref 10 dBm *Atten 10 dB -13.68 dBm *Peak -13.68 dBm -13.68 dBm *Peak		Pulse Width	Period	Pulses	(%)	(%)	Results
Element Materials Technology Mkr3 579.1 µs Ref 10 dBm #Atten 10 dB -13.68 dBm *Peak Log 5 dB/ Offst 23.2 dB *VAvg W1 S2 Center 2.422 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 1 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm	Element Materials Technology Mkr3 579.1 µs Ref 10 dBm #Atten 10 dB -13.68 dBm *Peak Log 5 dB/ Offst 23.2 dB *VAvg W1 \$2 Center 2.422 000 GHz Span 0 Hz Res BW 3 MHz #VBW 300 kHz Sweep 1 ms (8192 pts) Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm		256 us	478.6 us	1	53.5	N/A	N/A
Element Materials Technology Ref 10 dBm *Atten 10 dB -13.68 dBm *Peak Log 5 dB/ Offst 23.2 dB *VAvg H1 S2 Center 2.422 000 GHz Res BW 3 MHz 1 (1) Time 1005 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm	Element Materials Technology Mkr3 579.1 µs Ref 10 dBm #Atten 10 dB -13.68 dBm *Peak							
Ref 10 dBm #Atten 10 dB -13.68 dBm *Peak	Ref 10 dBm #Atten 10 dB -13.68 dBm #Peak			2021			RΤ	
<pre>#Peak Log 5 dB/ Offst 23.2 dB #VAvg #VAvg W1 S2 Center 2.422 000 GHz Res BW 3 MHz MHz Trace Type 1 (1) Time 1 (1) Time 2 (1) Time 1 00.5 µs -13.81 dBm 2 (1) Time 3 55.5 µs -14.16 dBm</pre>	<pre>#Peak Log 5 dB/ Offst 23.2 dB #VAvg W1 S2 Center 2.422 000 GHz Res BW 3 MHz 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm</pre>	Element Materials	Technology					Mkr3 579.1 µs
*Peak Log 5 dB/ Offst 23.2 dB • <	*Peak Log 5 dB/ Offst 23.2 dB **Vex	Ref 10 dBm	#	Atten 10 d	В			-13.68 dBm
S All (1) All (2) All	S All (1) All	#Peak						
dB/ 0ffst 23.2 dB dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/	dB/ 0ffst 23.2 dB dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/ dB/	Log						
0ffst 23.2 dB #VAvg #VAvg W1 S2 Center 2.422 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm	Offst 23.2 dB Image: Constraint of the second	5	هي [[لولير إلى الله في إلى الكال بوليو	lister filder die seine state in di		يىر <mark>مەل</mark> ارىر	إلياء ومشارا والربيار أأله	
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W1 S2 Center 2.422 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm	W1 S2 Center 2.422 000 GHz Res BW 3 MHz Marker Trace Type 1 (1) Time 2 (1) Time 356.5 µs -13.81 dBm -14.16 dBm							
W1 S2 Center 2.422 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm	W1 S2 Center 2.422 000 GHz Res BW 3 MHz Marker Trace Type X Axis Amplitude 1 (1) Time 100.5 µs -13.81 dBm 2 (1) Time 356.5 µs -14.16 dBm							
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1 (1) Time 100.5 µs –13.81 dBm 2 (1) Time 356.5 µs –14.16 dBm	1 (1) Time 100.5 µs –13.81 dBm 2 (1) Time 356.5 µs –14.16 dBm							1 ms (0192 pts)
2 (1) Time 356.5 µs -14.16 dBm	2 (1) Time 356.5 µs -14.16 dBm							

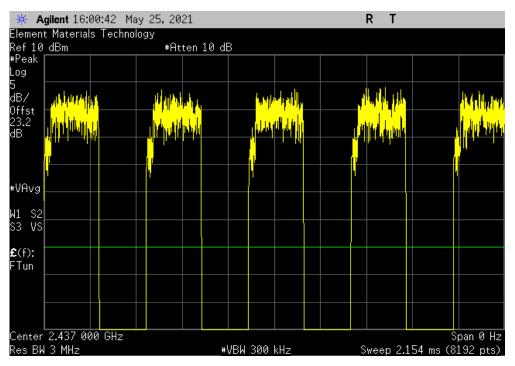
2	2400 MHz - 2483.	5 MHz Band, 40	MHz, 802.11(n) N	ACS7 , Low Chan	nel 1/5, 2422 MH	Z
			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	N/A	N/A	5	N/A	N/A	N/A





	2400 MHz - 2483.5	MHz Band, 40	MHz, 802.11(n) I	MCS7 , Mid Chan	nel 4/8, 2437 M	Hz	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Resu	
	256 us	478.6 us	1	53.5	N/A	N/.	'A
★ Agilent 16: Element Materia	00:08 May 25, Is Technology	2021			RT	Mkr3	579.1 µ s
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dB	φ"	♦		•			
#VAvg							
W1 S2							
Center 2.437 0	00 GHz					S	ipan 0 Hz
Res BW 3 MHz		#	VBW 300 kHz	2	Sweep		192 pts)
Marker Tra			Axis		litude		
1 (1 2 (1			00.5 µs 56.5 µs	-13.4 -13.4			
			ло.5 µs 79.1 µs	-13.1			
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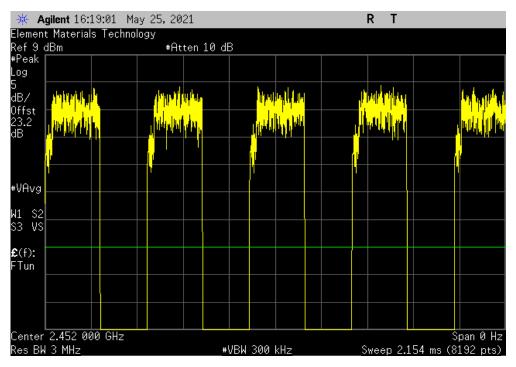
	2	2400 MHz - 2483.	5 MHz Band, 40	MHz, 802.11(n) N	ACS7 , Mid Chan	nel 4/8, 2437 MH	Z
				Number of	Value	Limit	
_		Pulse Width	Period	Pulses	(%)	(%)	Results
		N/A	N/A	5	N/A	N/A	N/A





			Number of	Value	Limit	
	Pulse Width	Period	Pulses	(%)	(%)	Results
	256.2 us	478.6 us	1	53.5	N/A	N/A
	8:53 May 25	, 2021			RT	
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"UO						
#VAvg						
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Center 2.452 00	0 GHz					Span 0 Ha
Res BW 3 MHz	0 0112		#VBW 300 kł	łz	Sweep 1	l ms (8192 pts)
Marker Trac			Axis		olitude	
1 (1)			00.5 µs		17 dBm	
2 (1)			56.7 µs 79.1 µs		34 dBm	
3 (1)			74 1 He	-14.1	M dBm	

24	400 MHz - 2483.5	MHz Band, 40 M	1Hz, 802.11(n) M	CS7 , High Chanr	nel 7/11, 2452 MH	Ηz	
			Number of	Value	Limit		
	Pulse Width	Period	Pulses	(%)	(%)	Results	
	N/A	N/A	5	N/A	N/A	N/A	





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2022-03-14	2023-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2022-03-15	2023-03-15
Block - DC	Fairview Microwave	SD3379	AMW	2022-03-14	2023-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

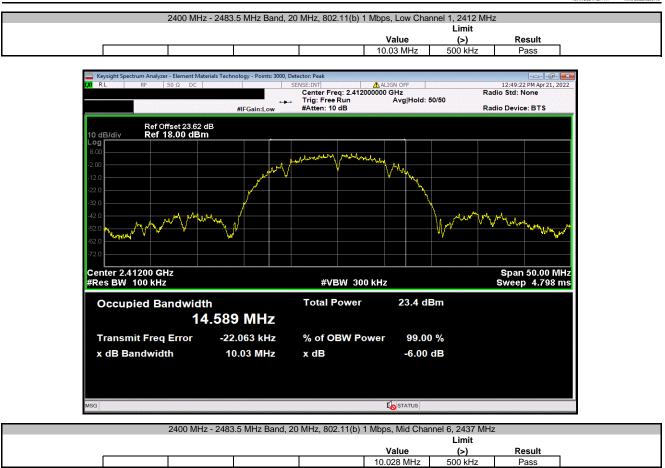
The EUT was set to the channels and modes listed in the datasheet.

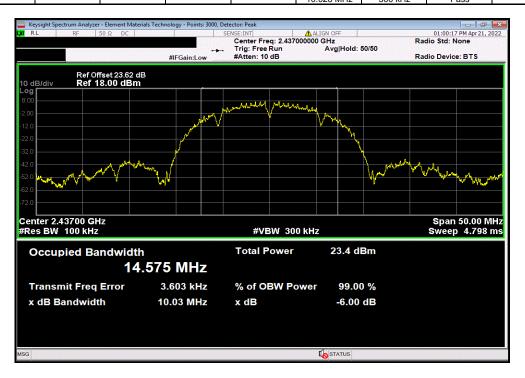
The 6dB DTS bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.



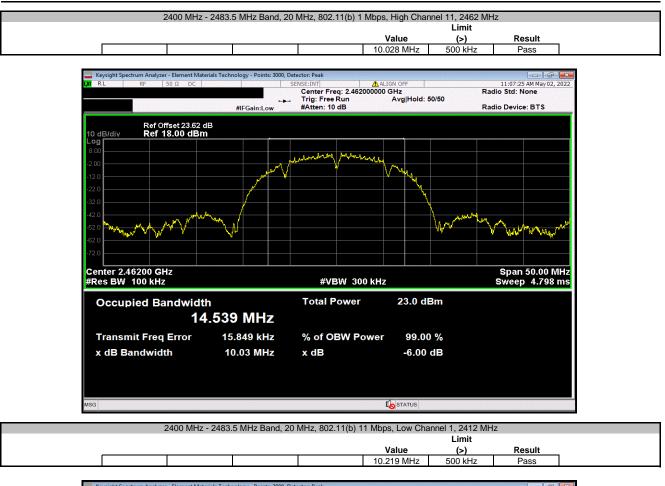
			-					TbtTx 2021.12.14.1	XMit 2022
		andheld Iridium S	Smartphone			Wo		PCTE0003	
Serial Number:								18-May-22	
Customer:	NAL Resear	ch Corporation				Tem	perature:	22.6 °C	
Attendees:	None					H	lumidity:	43.3% RH	
Project:	None					Baromet	ric Pres.:	1025 mbar	
Tested by:	Jeff Alcoke			Power:	5.0 VDC via USB		Job Site:	EV06	
EST SPECIFICATI					Test Method				
CC 15.247:2022					ANSI C63.10:2013				
00 1012 11 12022									
OMMENTS									
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400 MHz - 2483.5 M									
	20 MHz								
		802.11(b) 1 Mbps							
		Low	Channel 1, 2412 MHz			10.03	MHz	500 kHz	Pass
		Mid 0	Channel 6, 2437 MHz			10.028	3 MHz	500 kHz	Pass
			Channel 11, 2462 MHz			10.028		500 kHz	Pass
		802.11(b) 11 Mbps					-		
			Channel 1, 2412 MHz			10.219	MHz	500 kHz	Pass
			Channel 6, 2437 MHz			9.89		500 kHz	Pass
			Channel 11, 2462 MHz			9.632		500 kHz	Pass
		802.11(g) 6 Mbps				9.032	IVITIZ	300 KHZ	F d55
						16.304	4. 6.41.1-	500 kHz	Pass
			Channel 1, 2412 MHz						
			Channel 6, 2437 MHz			16.30		500 kHz	Pass
			Channel 11, 2462 MHz			16.036	SMHZ	500 kHz	Pass
		802.11(g) 36 Mbps							_
			Channel 1, 2412 MHz			15.002		500 kHz	Pass
			Channel 6, 2437 MHz			14.813		500 kHz	Pass
			Channel 11, 2462 MHz			15.05	5 MHz	500 kHz	Pass
		802.11(g) 54 Mbps	s						
			Channel 1, 2412 MHz			15.109		500 kHz	Pass
		Mid 0	Channel 6, 2437 MHz			15.324	4 MHz	500 kHz	Pass
		High	Channel 11, 2462 MHz			14.42	MHz	500 kHz	Pass
		802.11(n) MCS0							
			Channel 1, 2412 MHz			15.50	3 MHz	500 kHz	Pass
			Channel 6, 2437 MHz			16.83		500 kHz	Pass
			Channel 11, 2462 MHz			16.12		500 kHz	Pass
		802.11(n) MCS7							
			Channel 1, 2412 MHz			13.58	MHz	500 kHz	Pass
			Channel 6, 2437 MHz			15.399		500 kHz	Pass
			Channel 11, 2462 MHz			13.27		500 kHz	Pass
	40 MHz	riigii				10.21		000 1012	
		802.11(n) MCS0							
			Channel 1/5, 2422 MHz			33.81		500 kHz	Pass
			Channel 4/8, 2437 MHz			26.98		500 kHz	Pass
			Channel 7/11, 2452 MHz			33.78	5 IVIHZ	500 kHz	Pass
		802.11(n) MCS7	Ohannal 4/5, 0400 1 ***					500 HIL-	De
			Channel 1/5, 2422 MHz			33.81		500 kHz	Pass
		Mid 0	Channel 4/8, 2437 MHz			35.049	9 MHz	500 kHz	Pass
			Channel 7/11, 2452 MHz			32.60		500 kHz	Pass

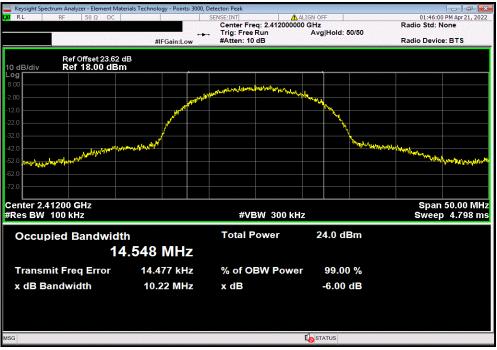






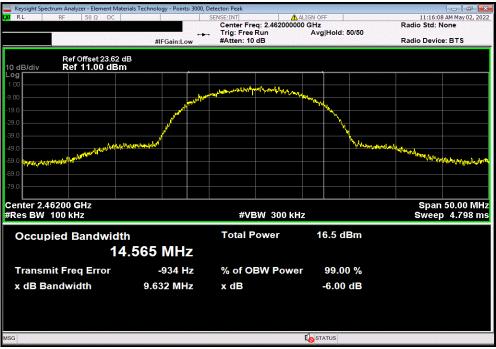




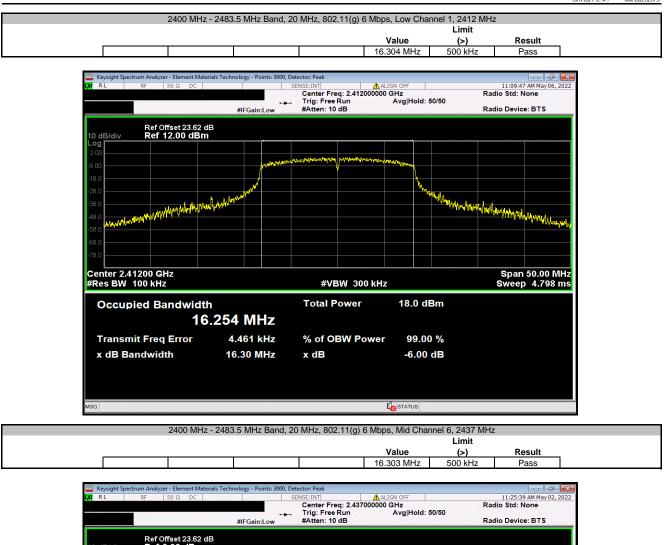






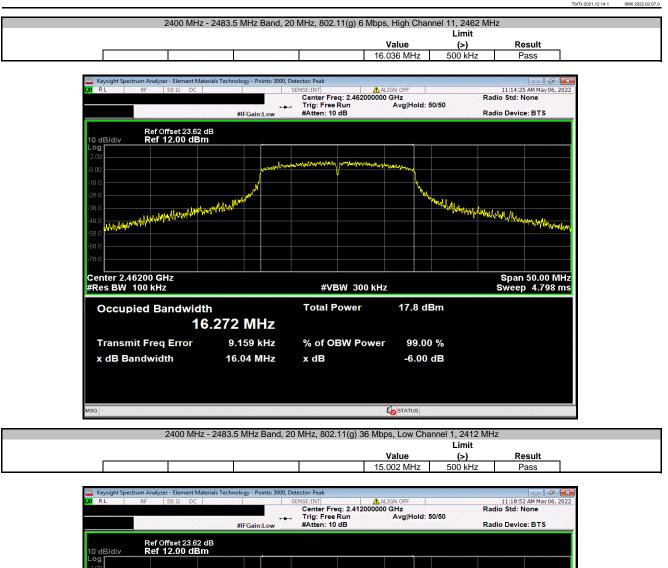






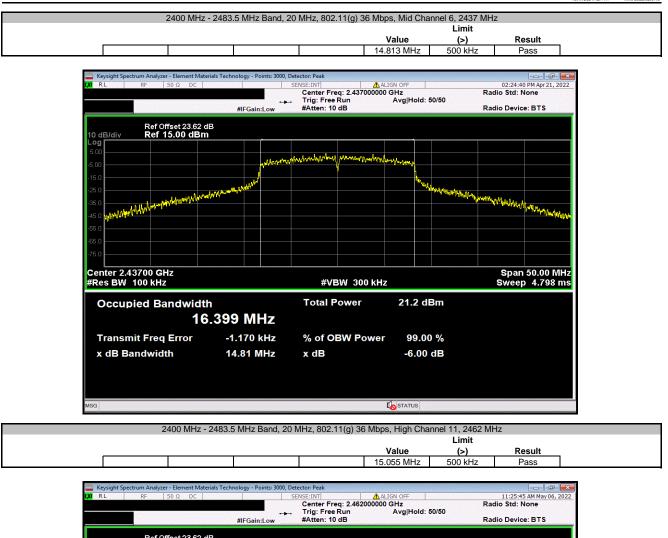
	#IFGain:Low	Trig: Free #Atten: 10		Avg Ho	ld: 6	50/50	Radio Devi	e: BTS
Ref Offset 23.62 dB 0 dB/div Ref 9.00 dBm og			1		.			-
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enter 2.43700 GHz Res BW 100 kHz		#VE	SW 300 KH	z				∫ n 50.00 MH p 4.798 m
Occupied Bandwidth		Total P	ower	15.2	d	Зm		
1/.62 + Transmit Freq Error	23 MHz	% of O	3W Power	99	-00) %		
	16.30 MHz	x dB				dB		
9				STATUS				

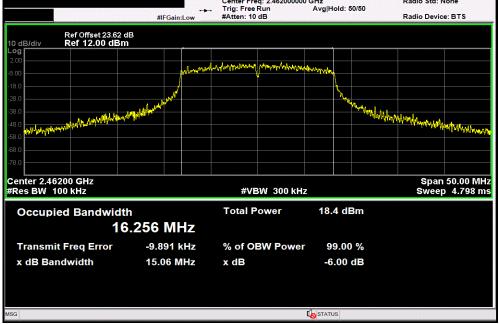




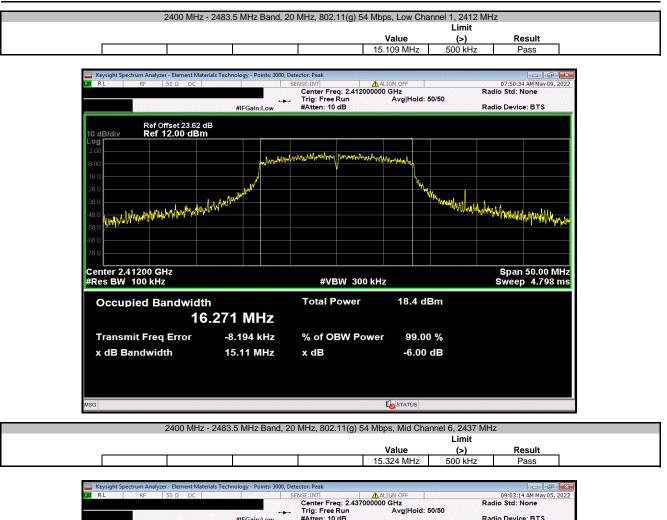


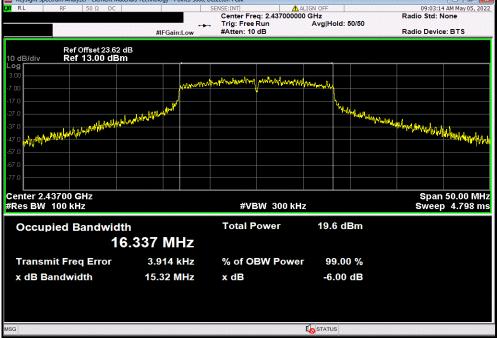




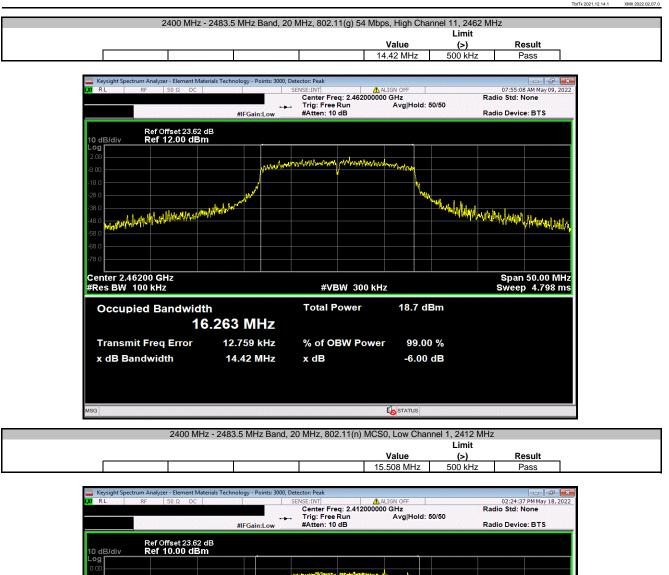


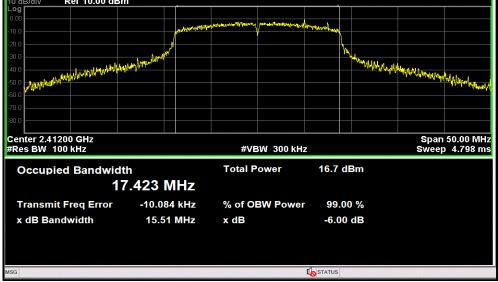






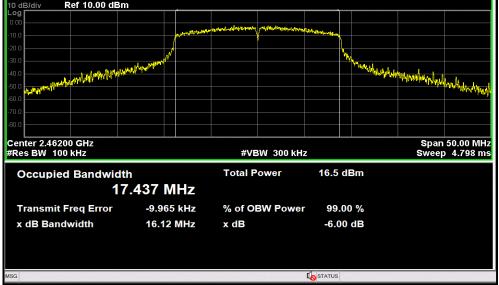




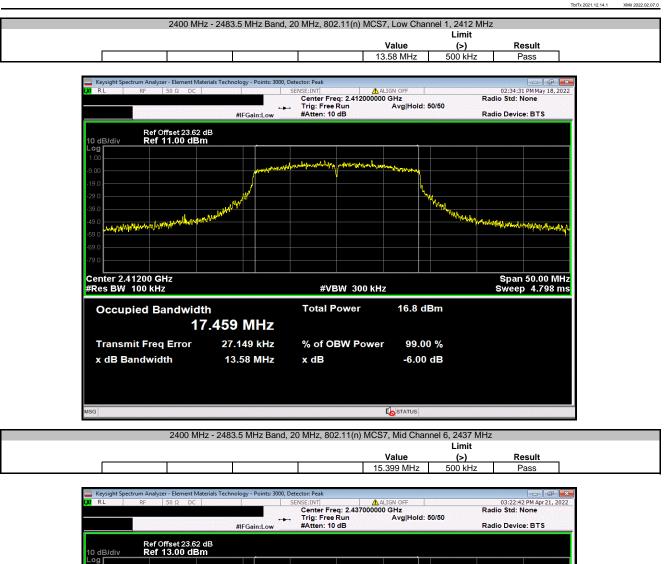


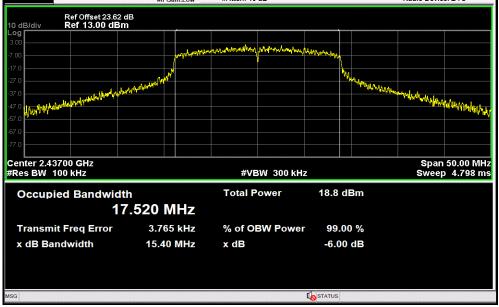




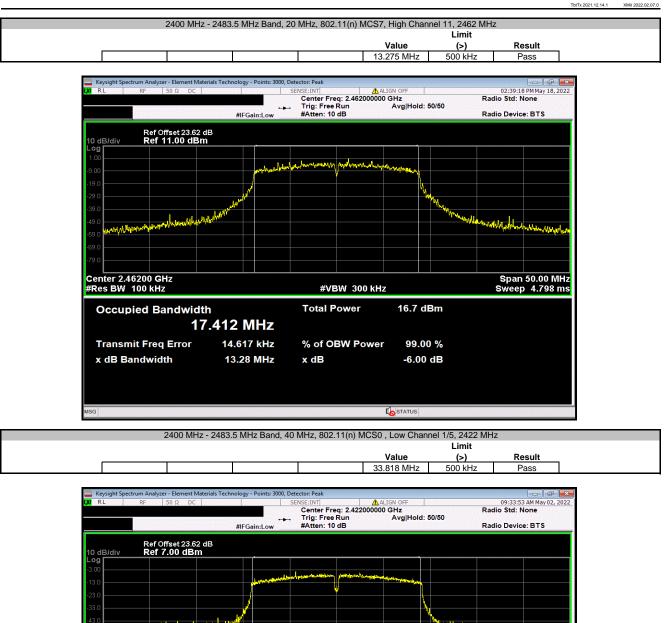












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nter 2.42200 GHz es BW 100 kHz		#VBW 300 kHz		Span 100.0 Sweep 9.597
Occupied Bandwidt	^h 5.618 MHz	Total Power	16.1 dBm	
Occupied Bandwidt		Total Power % of OBW Power	16.1 dBm 99.00 %	
Dccupied Bandwidt	618 MHz			



