

XMit 2019.09.05

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
Power Supply - DC	Agilent	E3648A	TPE	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFP	2-Jul-19	2-Jul-20

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to low and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no hop mode. The channels clo sest to the band edges were selected.

The spectrum was scanned below the lower band edge and above the higher band edge.



						TbtTx 2019.08.02	XMit 2019.09.05
EUT:	MWMII				Work Order:	MASI0553	
Serial Number:	ENG-1				Date:	23-Sep-19	
Customer:	Masimo Corporation				Temperature:	23.3 °C	
Attendees:	Anami Joshi				Humidity:	51.4% RH	
Project:	None				Barometric Pres.:	1015 mbar	
Tested by:	Mark Baytan		Power	3.6 VDC	Job Site:	OC13	
TEST SPECIFICAT	IONS			Test Method			
FCC 15.247:2019				ANSI C63.10:2013			
COMMENTS				-			
Reference Level O	fset: DC Block + 20dB Att	tenuator + RF Test Cable + Patc	h Cable = 23.2 dB				,
DEVIATIONS FROM	I TEST STANDARD						
None							
			11,	0			
Configuration #	2	-	- the	Dyt-			
		Signature					
					Value	Limit	
					(dBc)	≤ (dBc)	Result
DH5, GFSK							_
	Low Channel				-56.13	-20	Pass
	High Channel				-57.2	-20	Pass
2DH5, pi/4-DQPSK							
	Low Channel				-45.92	-20	Pass
	High Channel				-56.27	-20	Pass
3DH5, 8-DPSK							
	Low Channel				-45.13	-20	Pass
	High Channel				-55.98	-20	Pass











🚺 Ke	ysight Spec	trum Ana	ilyzer - Element	Materials Techno	logy							
LXI R	L	RF	50 Ω A	C		9	SENSE:INT		ALIGN OFF		02:04:0	0 PM Sep 24, 2019
									#Avg Type	: Log-Pwr	Т	RACE 1 2 3 4 5 6
					PNO: Fast	-	Trig: Free	Run				TYPE MWWWW
					IFGain:Low	-	#Atten: 10	dB				DETPPPPP
											A Miles 4	246 MILL-
		Ref Of	ffset 23.2 d	в							AWKET 3	5.346 WHZ
10 dE	3/div	Ref 1	0.00 dBr	n								-56.27 dB
Log									1	1		
				_~^	2							
0.00				- pr-	7							
					ł.							
10.0					1							
-10.0												
20.0												
-20.0												
					har							
-30.0					W							
-30.0			2	V ^m								
-40 N			/									
1010		n				Jun	n -1					
		l l	Mr.N				n/ V	1/\2				
-50.0		A										
	mont	rr M					mound	martan				
								- nev her	and the work of the	Marman	mary mary mary	monowwwwww
-60.0												
-70.0												
-80.0												
Cen	ter 2.4	83500	GH7								Spar	15.00 MHz
#Do	e BIM 1	00 66	17		#	N/BI	AL 300 KHZ			Swa	en 1200 m	e (3000 nte)
1000	3-044	OU NI	1-				A-300 KH2			Gave	ep 1.200 m	s (acco prs)
MSG									STATUS			
Designation of the local	Concession of the Owner of the		CONTRACTOR OF THE OWNER OF THE OWNER OF T						STATUTE OF TAXABLE PARTY OF TAXABLE PARTY.			





🎉 Keysight Spect	rum Analyzer - Element	t Materials Technolo	gy						
LXI RL	RF 50 Ω A	(C	1	SENSE:INT	<u>∧</u> A	LIGN OFF		02:26:0	PM Sep 24, 2019
			PNO: Fast 😱	Trig: Free	Run	#Avg Type:	Log-Pwr	TI	TYPE MWWWWW
			FGain:Low	#Atten: 10	aв			AMIL 2	204 1411-
10 dB/div	Ref Offset 23.2 d Ref 10.00 dBr	IB M							-55.98 dB
209		~X2	2						
0.00									
-10.0									
-20.0									
-30.0	- Aw	\sim	my						
-40.0				۸.					
-50.0	Manna		۲۳ ۱	\sim	1Δ2				
50.0	w.W			haven	- marine hope and hop	man-alagethan	hanger and	hunn	mm
-60.0									
-70.0									
-80.0									
Center 2.48 #Res BW 1	33500 GHz 00 kHz		#VB	W 300 kHz			Swee	Span 200 ms	15.00 MHz s (3000 pts)
MSG						STATUS			



XMit 2019.06.11

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
Power Supply - DC	Agilent	E3648A	TPE	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFP	2-Jul-19	2-Jul-20

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to its normal pseudo-random hopping sequence. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.



						TbtTx 2018.09.13	XMit 2019.06.11
EUT	: MWMII				Work Order:	MASI0553	
Serial Number	ENG-1				Date:	23-Sep-19	
Customer	: Masimo Corporation				Temperature:	26.4 °C	
Attendees	: Anami Joshi				Humidity:	41.6% RH	
Project	:: None				Barometric Pres.:	1012 mbar	
Tested by	: Mark Baytan		Power: 3.6 VDC		Job Site:	OC13	
TEST SPECIFICAT	TIONS		Test Met	hod			
FCC 15.247:2019			ANSI C63	3.10:2013			
COMMENTS							
Reference level of	fset: DC block + 20dB atte	enuator + coax cable + client p	rovided patch cable = 23.7dB Total C	Offset			
DEVIATIONS FRO	M TEST STANDARD						
None							
Configuration #	2	Signatura	M++ B+	1			
		Signature			Value	Limit	
					(dBc)	< (dBc)	Result
Hopping Mode (All	Channels)				(420)	= (420)	nooun
	DH5. GFSK						
	Low Channe	el. 2402 MHz			-47.38	-20	Pass
	High Channe	el, 2480 MHz			-47.27	-20	Pass
	2DH5, pi/4-DQPSK						
	Low Channe	el, 2402 MHz			-45.43	-20	Pass
	High Channe	el, 2480 MHz			-44.53	-20	Pass
	3DH5, 8-DPSK						
	Low Channe	el, 2402 MHz			-45.56	-20	Pass
	High Channe	el, 2480 MHz			-45.08	-20	Pass
	5						





#VBW 300 kHz

Center 2.48350 GHz #Res BW 100 kHz Span 150.0 MHz Sweep 1.066 ms (1000 pts)





	PNO: Fast Trig: F IFGain:Low #Atten	#Avg Type: ree Run 10 dB	Voltage TRACE 123456 TYPE MWWWWW DET PPPPP
Ref Offset 23.7 dB 10 dB/div Ref -3.00 dBm			ΔMkr1 114.56 MHz -44.53 dB
-13.0 -23.0 -33.0			
-43.0			
-63.0	¥	high work and the for a second to the second s	_{nen} tsinden Lenine Afrikk Instituten den den den die den den die den die den die den die den die den die den die
-73.0			
-83.0			
-93.0			
Center 2.48350 GHz #Res BW 100 kHz	#VBW 300 k	Hz	Span 150.0 MHz Sweep 1.066 ms (1000 pts)
MSG		STATUS	





	PNO: Fast G	Trig: Free R #Atten: 10 d	#Avg Ty un B	pe: Voltage	TF	ACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P
Ref Offset 23.7 dB 10 dB/div Ref -3.00 dBm					ΔMkr1 9	5.35 MHz 45.08 dB
		. WATAINA				
-23.0						
-33.0						
-43.0			<u>_</u> 1∆	2		
-53.0		The	ephysodiumer.mondly	minentranerAppidAp	it month and	mlunnnyper
-73.0						
-83.0						
-93.0						
Center 2.48350 GHz #Res BW 100 kHz	#VBW	/ 300 kHz		Swee	Span p 1.066 ms	150.0 MHz (1000 pts)
MSG			STATUS			



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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply - DC	Agilent	E3648A	TPE	NCR	NCR
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFP	2-Jul-19	2-Jul-20

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The 20 dB occupied bandwidth was measured with the EUT set to low, medium and high transmit frequencies in the band. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode.



					TbtTx 2019.08.02	XMit 2019.06.11
EUT	: MWMII			Work Order:	MASI0553	
Serial Number	ENG-1			Date:	3-Jul-19	
Customer	: Masimo Corporation			Temperature:	26.4 °C	
Attendees	: Anami Joshi			Humidity:	41.6% RH	
Project	: None			Barometric Pres.:	1012 mbar	
Tested by	: Luis Flores and Mark Ba	ytan	Power: 3.6VDC	Job Site:	DC13	
TEST SPECIFICAT	FIONS		Test Method			
FCC 15.247:2019			ANSI C63.10:2013			
COMMENTS						
Reference level of	fset accounted for during	measurements.				
DEVIATIONS FRO	M TEST STANDARD					
None		-				
			11. 0			
Configuration #	2		4 K Ott			
		Signature				
					Limit	
				Value	(<)	Result
DH5, GFSK						
	Low Channel			1.03 MHz	1.5 MHz	Pass
	Mid Channel			1.03 MHz	1.5 MHz	Pass
	High Channel			1.027 MHz	1.5 MHz	Pass
2DH5, pi/4-DQPSK						
	Low Channel					
	Low Channel			1.116 MHz	1.5 MHz	Pass
	Mid Channel			1.116 MHz 1.119 MHz	1.5 MHz 1.5 MHz	Pass Pass
	Mid Channel High Channel			1.116 MHz 1.119 MHz 1.126 MHz	1.5 MHz 1.5 MHz 1.5 MHz	Pass Pass Pass
3DH5, 8-DPSK	Mid Channel High Channel			1.116 MHz 1.119 MHz 1.126 MHz	1.5 MHz 1.5 MHz 1.5 MHz	Pass Pass Pass
3DH5, 8-DPSK	Mid Channel High Channel Low Channel			1.116 MHz 1.119 MHz 1.126 MHz 1.115 MHz	1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz	Pass Pass Pass Pass
3DH5, 8-DPSK	Low Channel High Channel Low Channel Mid Channel			1.116 MHz 1.119 MHz 1.126 MHz 1.115 MHz 1.115 MHz 1.114 MHz	1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz	Pass Pass Pass Pass Pass Pass
3DH5, 8-DPSK	Low Channel High Channel Low Channel Mid Channel High Channel			1.116 MHz 1.119 MHz 1.126 MHz 1.115 MHz 1.115 MHz 1.114 MHz 1.115 MHz	1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz 1.5 MHz	Pass Pass Pass Pass Pass Pass Pass































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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFP	2-Jul-19	2-Jul-20
Block - DC	Fairview Microwave	SD3379	AMV	3-Jan-19	3-Jan-20
Attenuator	Fairview Microwave	SA18H-20	TKR	20-Dec-18	20-Dec-19
Cable	Fairview Microwave	SCA1814-0101-120	OCZ	NCR	NCR
Generator - Signal	Agilent	E8257D	TGU	15-Feb-18	15-Feb-21

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet in a no-hop mode. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



						TbtTx 2019.08.02	XMit 2019.09.05
EUT	MWMII				Work Order:	MASI0553	
Serial Number	ENG-1				Date:	23-Sep-19	
Customer	: Masimo Corporation				Temperature:	22.2 °C	
Attendees	: Anami Joshi				Humidity:	48.3% RH	
Project	: None				Barometric Pres.:	1013 mbar	
Tested by	: Mark Baytan		Power: Battery - 3.6 VDC		Job Site:	OC13	
TEST SPECIFICAT	LIONS		Test Method				
FCC 15.247:2019			ANSI C63.10:2013				
COMMENTS							
Reference Level O	Offset: DC Block + 20 dB A	ttenuator + RF Test Cable + Patch Cab	e = 23.2 dB				
DEVIATIONS EDO							
DEVIATIONS FRO	WITEST STANDARD						
None	L						
Configuration #	2		UL RI				
configuration #	-	Signature	1 - Off				
		Signature	Frequency	Measured	Max Value	Limit	
			Bange	Freq (MHz)	(dBc)	< (dBc)	Result
DH5 GESK			Kaligo		(420)	= (420)	nooun
Drid, Or Ort	Low Channel		Fundamental	2402 19	N/A	N/A	N/A
	Low Channel		30 MHz - 12 5 GHz	2685.07	-57.73	-20	Pass
	Low Channel		12 5 GHz - 25 GHz	24974.06	-43 25	-20	Pass
	Mid Channel		Fundamental	2431 4.00	-10.20 N/Δ	N/A	N/A
	Mid Channel		30 MHz - 12 5 GHz	7648 1	-57.75	-20	Pass
	Mid Channel		12 5 GHz - 25 GHz	24917 59	-42.97	-20	Pass
	High Channel		Fundamental	2480.2	N/A	N/A	N/A
	High Channel		30 MHz - 12 5 GHz	2517 61	-57.28	-20	Pass
	High Channel		12 5 GHz - 25 GHz	24911 49	-42.31	-20	Pass
2DH5 pi/4-DOPSK				24011.40	42.01	20	1 435
20110, pr 1 0 di 010	Low Channel		Fundamental	2402 19	N/A	N/A	N/A
	Low Channel		30 MHz - 12 5 GHz	5850 15	-55.96	-20	Pass
	Low Channel		12 5 GHz - 25 GHz	24954 22	-40 71	-20	Pass
	Mid Channel		Fundamental	2441 19	N/A	N/A	N/A
	Mid Channel		30 MHz - 12 5 GHz	5722.26	-55.67	-20	Pass
	Mid Channel		12 5 GHz - 25 GHz	24957 27	-40.64	-20	Pass
	High Channel		Fundamental	2480.2	N/A	N/A	N/A
	High Channel		30 MHz - 12.5 GHz	5626.35	-54.34	-20	Pass
	High Channel		12.5 GHz - 25 GHz	24951.17	-40.37	-20	Pass
3DH5, 8-DPSK							
,	Low Channel		Fundamental	2402.19	N/A	N/A	N/A
	Low Channel		30 MHz - 12.5 GHz	12268.59	-56.03	-20	Pass
	Low Channel		12.5 GHz - 25 GHz	24967.95	-41.48	-20	Pass
	Mid Channel		Fundamental	2441.2	N/A	N/A	N/A
	Mid Channel		30 MHz - 12.5 GHz	6294.69	-55.34	-20	Pass
	Mid Channel		12.5 GHz - 25 GHz	24932.85	-41.37	-20	Pass
	High Channel		Fundamental	2480.2	N/A	N/A	N/A
	High Channel		30 MHz - 12.5 GHz	6206.39	-55.62	-20	Pass
	High Channel		12.5 GHz - 25 GHz	25000	-41.21	-20	Pass





Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	2685.07	-57.73	-20	Pass

🚺 Key	sight Spectrum	Analyzer - Elen	nent Material:	; Technology							
LXI RI	- R	F 50 Ω	AC		S	ENSE:INT	A_A	LIGN OFF		01:30:57	PM Sep 24, 2019
				PNO: Fast IFGain:Low	Ģ	Trig: Free F #Atten: 10	Run dB	#Avg Type:	Log-Pwr	TF	ACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P
10 dE Log	Re 3/div R e	f Offset 23.: f 12.00 d	2 dB Bm					1	1	Mkr1 2.6 -5(85 1 GHz).73 dBm
2.00			_								
-8.00											
-18.0											
-28.0											
-38.0			.1								
-48.0		الاستينانية		يفريانهم الماليلي	مبينيني		dation ge ^b indeling		a Lyling i had a leg	an addi tang bia	المراطلة وفاللما ومرا
-58.0											
-78.0											
Star	t 0.030 G	Hz				N 300 kHz			Swoo	Stop 1	2.500 GHz
MSG	55W 100	KHZ		#	ev ev	V SUU KHZ		STATUS	Swee	- 40.90 Ms	(ellar bis)





Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
Fundamental	2441.2	N/A	N/A	N/A

🎉 Keysight Spec	trum Analyzer - Element i	Materials Technology			
LXI RL	RF 50 Ω AC		SENSE:INT	ALIGN OFF	01:37:45 PM Sep 24, 2019
		PNO: Wide IFGain:Low	Trig: Free Run #Atten: 10 dB	#Avg Type: Log-Pwr ו	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P
10 dB/div Log	Ref Offset 23.2 df Ref 12.00 dBm	3		Mkı	1 2.441 197 90 GHz 6.867 dBm
2.00					
-8.00					
-18.0					The second secon
-28.0					Allower and a second
-48.0					
-58.0					
-68.0					
-78.0					
Center 2.44 #Res BW 1	41000 GHz 00 kHz		#VBW 300 kHz	Swe	Span 2.000 MHz ep 1.092 ms (8192 pts)
MSG				STATUS	





DF	15, GFSK, Mid Cha	nnel		
Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
12.5 GHz - 25 GHz	24917.59	-42.97	-20	Pass

🊺 Kej	/sight Spectru	m Analyzer - I	lement Mate	rials Technolog	у						
LXI R		RF 50	Ω AC			SENSE:INT	<u>^</u> A	LIGN OFF		01:39:12	PM Sep 24, 2019
				P	NO: Fast 🖵 Gain:Low	Trig: Free #Atten: 10	Run dB	#Avg Type:	Log-Pwr	T	ACE 1 2 3 4 5 6 YPE M WWWWW DET P P P P P P
10 dE	R 3/div R	ef Offset 2 ef 12.00	23.2 dB dBm						Μ	kr1 24.9 [.] -36	17 6 GHz .10 dBm
Log											
2.00											
-8.00											
-18.0											
-28.0											
-38.0											<u>`</u>
-30.0			نىلىرى.	an an film or on the	المريد المحدور	antanin kanala	يناويون والمحالية	مين المراجع ال	Mark and the second	مانغ المراجعة المطلحة المطلحة الم	New York Street Stre
-40.0					and the second se	and the local difference of th	And a second				
-58.0											
-68.0											
-78.0											
Star #Re	t 12.500 s BW 10	GHz 0 kHz			#VB	W 300 kHz			Sweep	Stop 2 40.96 ms	5.000 GHz (8192 pts)
MSG								STATUS			



		DH5, GFSK, High Ch	annel		
	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
	Fundamental	2480.2	N/A	N/A	N/A
Keysight Spectr	rum Analyzer - Element Materials Technology				
LXU RL	RF 50 Ω AC	SENSE:INT	ALIGN OFF		01:42:00 PM Sep 24, 2019
	PNO: Wir IFGain:L	de 🕞 Trig: Free Run ow #Atten: 10 dB	#Avg Type:	Log-Pwr	TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P
10 dB/div	Ref Offset 23.2 dB Ref. 11.00 dBm			Mkr1 2.4	80 202 05 GHz 6.480 dBm
Log					
1.00					
-9.00					
-19.0					
10.0					
-29.0	and the second se		<u> </u>		Moundaline
20.0					
-39.0					
-49.0			<u>م الم الم الم الم الم الم الم الم الم ال</u>		
-59.0					
-69.0			وعدالك		
-79.0					
Center 2.480 #Res BW 10	0000 GHz	#VBW-300 kHz		Sween 1	Span 2.000 MHz
MSG		#VBVV 300 KHZ	STATUS	Sweep	992 IIIS (8192 prs)
	Frequency	DH5, GFSK, High Cha Measured	annel Max Value	Limit	
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
	20 MU7 12 5 CU7	2517.61	-57.28	-20	Pass

Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	2517.61	-57.28	-20	Pass

			I I	PNO: Fast 🕞 FGain:Low	Trig: Free #Atten: 10	Run dB			T	DET PPPPP
10 dE	Re B/div R e	ef Offset 23.2 di ef 11.00 dBm	3 1						Mkr1 2.5 -50	17 6 GHz).80 dBm
LOg										
1.00										
-9.00										
-19.0										
-29 N										
20.0										
-39.0			4							
-49.0			Hall an utablic and a	البنغريا و	المرافقة والمرافع والمقا	المتعدية المتعالي والمعالية			and associated and	والعلول والمتحد والمتحد والمتحد
-59.0										te linite interim
-69.0										
70.0										
-79.0										
Star #Po	t 0.030 G	Hz	1	#\/B		I		Sween	Stop 1	2.500 GHz
MSG	SIGW TU	2 MH2		#VD	W JOU KHZ		STATUS	Sweet	- 40,310 THE	to isz pisj





Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
Fundamental	2402.19	N/A	N/A	N/A

🚺 Key	sight Spectru	m Analyzer - Elen	nent Materials T	echnology					- 6 X
LXI RL		RF 50 Ω	AC		SENSE:INT	ALIGN OFF		01:48:53 P	M Sep 24, 2019
				PNO: Wide IFGain:Low	Trig: Free Ru #Atten: 10 di	#Avg Type: un B	Log-Pwr	TRA TY C	CE 123456 PE MWWWW DET PPPPP
10 dE	R Maiv R	ef Offset 23. ef 10.00 d	2 dB Bm				Mkr1 2	.402 191 5.4	06 GHz I54 dBm
0.00									
-10.0									
-20.0									Same - Maria
-30.0	and a start of the	MM Road Chart							
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Cent #Res	er 2.402 BW 10	2000 GHz 0 kHz		#	VBW 300 kHz		Sweep	Span 2 1.092 ms	2.000 MHz (8192 pts)
MSG						STATUS			





2DH5, pi/4-DQPSK, Low Channel							
Frequency	Measured	Max Value	Limit				
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result			
12.5 GHz - 25 GHz	24954.22	-40.71	-20	Pass			





		2DH5, pi/4-DQPSK, Mid	Channel		
	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
	Fundamental	2441.19	N/A	N/A	N/A
Vauright Sports	um Analigas - Element Materials Technology				
LXI RL	RF 50 Ω AC	SENSE:INT	ALIGN OFF		01:54:21 PM Sep 24, 2019
	PNO: W	ide 🦳 Trig: Free Run	#Avg Type:	Log-Pwr	TRACE 1 2 3 4 5 6 TYPE M WWWWW
	IFGain:	_ow #Atten: 10 dB			DETPPPPP
ī	Ref Offset 23.2 dB			Mkr1 2.4	41 192 77 GHz
10 dB/div	Ref 10.00 dBm				4.7 TO UDII
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Center 2.44 #Res BW(10	1000 GHz	#V/BM/ 300 kHz		Sween 1	Span 2.000 MHz 092 ms (8192 nts)
MSG			In STATUS	-oweep 1	serving for test break
		2DH5, pi/4-DQPSK, Mid	Channel		
	Frequency	Measured	Max Value	Limit	
	Range	Freq (MHz)	(dBc)	<u>≤ (dBc)</u>	Result

2DH5, pi/4-DQPSK, Mid Channel							
Frequency Measured Max Value Limit							
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result			
30 MHz - 12.5 GHz	5722.26	-55.67	-20	Pass			

🊺 Ke	ysight Spectrum	Analyzer - Element	Materials Technol	ogy						
LXI R	L RF	= <u>50</u> Ω A	C		SENSE:INT	<u>∧</u> ∧	ALIGN OFF		01:55:40	PM Sep 24, 2019
				PNO: Fast G FGain:Low	Trig: Free #Atten: 10	Run dB	#Avg Type:	Log-Pwr	TF	ACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P
10 di Log	Ref B/div Re	Offset 23.2 d f 10.00 dBr	B n	-		1	1	I	Mkr1 5.7 -50	22 3 GHz).95 dBm
0.00										
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-50.0	نىغۇرلىلىلىرىغان يەر ي		لمحاجب بالمعاجم	North Martin	وي المان أوريد فنفو إم ال	ووالمالية المترودة المترودة	مار المراجعة المحافظة الم	and to tell to the state	alite free least to be lighted	a Lapace de la Arcel I
-60.0	a constitution of the local distance in the									
-70.0										
-80.0										
Star #Re:	t 0.030 GI s BW 100	Hz kHz		#V	BW 300 kHz			Sweep	Stop 1 5 40.96 ms	2.500 GHz (8192 pts)
MSG							STATUS			





Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
Fundamental	2480.2	N/A	N/A	N/A

🎉 Keysight Spe	ectrum Analy	zer - Element N	Aaterials Techn	ology						
LXI RL	RF	50 Ω AC			SEN	SE:INT	ALIGN OFF		02:01:32	2 PM Sep 24, 2019
				PNO: Wide IFGain:Low	Ģ	Trig: Free Run #Atten: 10 dB	#Avg T	ype: Log-Pwr	T	ACE 1 2 3 4 5 6 TYPE M WWWWW DET P P P P P P
10 dB/div Log	Ref Offs Ref 10	set 23.2 dE 1.00 dBm	5					Mkr1	2.480 20 4.	2 78 GHz 663 dBm
0.00			- m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~			and a second		
-10.0			North Contraction of the Contrac							
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Center 2.4 #Res BW	80000 100 kHz	GHz z		#	VBW	300 kHz		Swee	Span p 1.092 ms	2.000 MHz s (8192 pts)
MSG								S		





2DH5, pi/4-DQPSK, High Channel							
	Frequency	Measured	Max Value	Limit			
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result		
	12.5 GHz - 25 GHz	24951.17	-40.37	-20	Pass		





	_	3DH5, 8-DPSK, Low Cl	hannel		
	Frequency	Measured Free (MHz)	Max Value	Limit	Pocult
	Fundamental	2402 19	N/A	<u> </u>	N/A
1	Fundamentai	2402.10	11/17	11/7	11/17
📕 Keysight Spectrum Ar	nalyzer - Element Materials Technology				
LXI RL RF	50 Ω AC	SENSE:INT	ALIGN OFF	-	02:12:57 PM Sep 24, 2019
	PNO: W IFGain:L	ide 😱 Trig: Free Run .ow #Atten: 10 dB	#Avg Type:	Log-Pwr	TYPE M WWWWW DET P P P P P P
Ref (Offset 23.2 dB			Mkr1 2.4	102 193 99 GHz
	11.00 aBm		A 1		0.000 abm
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-69.0					
-79.0					
Center 2.40200	0 GHz			l	Span 2.000 MHz
#Res BW 100 k	Hz	#VBW 300 kHz		Sweep 1	.092 ms (8192 pts)
MSG					
	_	3DH5, 8-DPSK, Low Cl	nannel		

Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	12268.59	-56.03	-20	Pass

🚺 Ke	ysight Sp	ectrum A	nalyzer - Elem	nent Materia	ls Technolog	1							
LXI R	L	RF	50 Ω	AC			SE	ENSE:INT		ALIGN OFF	and the second	02:15:15	5 PM Sep 24, 2019
					P IF	NO: Fast (Gain:Low	₽	Trig: Free I #Atten: 10	Run dB	#Avg Type	: Log-Pwr	TF	ACE 1 2 3 4 5 6 TYPE MWWWW DET PPPPPP
10 dE Log	3/div	Ref (Ref	Dffset 23.: 11.00 d	2 dB Bm							N	/kr1 12.2 -5(68 6 GHz 0.43 dBm
1.00				_									
-9.00													
-19.0													
-29.0													
-39.0													1
-49.0	و منطقه و هم . ال	Alector			<i>whenes</i>	الم	de la citada		alin a shirt	alite and the state of the stat			
-59.0	And and the second s												
-79.0													
Star	1 0.03	O GH	7									Stop	12.500 GHz
#Re	s BW	100 k	Hz			#\	/BW	/ 300 kHz			Swee	p 40.96 ms	s (8192 pts)
MSG										STATUS			





Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
Fundamental	2441.2	N/A	N/A	N/A

🎉 Keysight Spectrum Analyzer - Ele	ement Materials Technology					
<mark>ປX/</mark> RL RF 50 ດ	2 AC	SE	NSE:INT	ALIGN OFF	02:20:4	7 PM Sep 24, 2019
	PNC IFGa):Wide 🖵 ain:Low	Trig: Free Run #Atten: 10 dB	#Avg Type: Lo	g-Pwr ⊤	RACE 1 2 3 4 5 6 TYPE M WWWW DET P P P P P P
Ref Offset 23 10 dB/div Ref 10.00	3.2 dB d B m				Mkr1 2.441 19 4	9 37 GHz .880 dBm
0.00				~		
-10.0						
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-30.0 martinet						- market
-40.0						
-50.0						
-70.0						
-80.0						
Center 2.441000 GHz #Res BW 100 kHz		#VBW	/ 300 kHz		Spar Sweep 1.092 m	1 2.000 MHz s (8192 pts)
MSG				STATUS		





3DH5, 8-DPSK, Mid Channel							
Frequency	Measured	Max Value	Limit				
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result			
12.5 GHz - 25 GHz	24932.85	-41.37	-20	Pass			





		3DH5, 8-DPSK, High C	hannel				
	Frequency	Measured	Max Value	Limit			
	Range	Freq (MHz)	(dBc)	<u>≤ (dBc)</u>	Result		
I	Fundamentai	2480.2	N/A	N/A	N/A		
Keysight Spectru	wm Analyzer - Flement Materials Technology						
(XI RL	RF 50 Ω AC	SENSE:INT	ALIGN OFF	_	02:24:15 PM Sep 24, 2019		
	PNO: Wic IFGain:L	de 🕞 Trig: Free Run ow #Atten: 10 dB	#Avg Type:	Log-Pwr	TRACE 2 3 4 5 6 TYPE M WWWWW DET P P P P P P		
R 10 dB/div	Ref Offset 23.2 dB Ref 10.00 dBm			Mkr1 2.4	80 201 56 GHz 4.819 dBm		
			♦ 1				
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			وهو والم				
Center 2.480	0000 GHz				Span 2.000 MHz		
#Res BW 10	00 kHz	#VBW 300 kHz	300 kHz Sweep 1.092 ms (8192 pts)				
MSG			I STATUS				
		3DH5 8-DPSK High C	hannel				
	Frequency	Measured	Max Value	Limit			
	Range	Freq (MHz)	(dBc)	≤ (dBc)	Result		
		6206.30	-55.62	-20	Dace		

Frequency	Measured	Max Value	Limit	
Range	Freq (MHz)	(dBc)	≤ (dBc)	Result
30 MHz - 12.5 GHz	6206.39	-55.62	-20	Pass

📜 Keysight Spectrum Analyzer - Element Materials Technology										
LXI RI	L	RF 50 Ω	AC		SENSE:INT	<u>A</u>	LIGN OFF		02:24:41	PM Sep 24, 2019
				PNO: Fast G	Trig: Free #Atten: 10	Run dB	#Avg Type	: Log-Pwr	T	DET PPPPP
10 dE	Ref Offset 23.2 dB Mkr1 6.206 4 GHz									
Log										
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10.0										
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-60.0	an and a state of the second									
-70.0										
-80.0										
Star #Re:	Start 0.030 GHz Stop 12.500 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 40.96 ms (8192 pts)									
MSG Los STATUS										



