

BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMMI 2022.02.07.0

EUT: AHFII Remote Radio Head	Work Order: NOKI0038
Serial Number: YK214000035	Date: 6-Apr-22
Customer: Nokia of America Corporation	Temperature: 22.6 °C
Attendees: Mitchell Hill	Humidity: 23.7% RH
Project: None	Barometric Pres.: 1026 mbar
Tested by: Mark Baytan	Power: 54 VDC
	Job Site: TX09

TEST SPECIFICATIONS		Test Method	
FCC 24E:2022		ANSI C63.26:2015	
RSS-133 Issue 6:2013+A1:2018		RSS-133 Issue 6:2013+A1:2018	

COMMENTS
 All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. For Test Case 1: the carriers are operated at maximum power (~26.6W or ~44.2dBm/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier). For Test Case 2 and 3: the carriers are operated at maximum power (~40W/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (80W for PCS band carriers + 40W for AWS band carrier). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance for Test Case 1.

DEVIATIONS FROM TEST STANDARD
 None

Configuration #	2	Signature	
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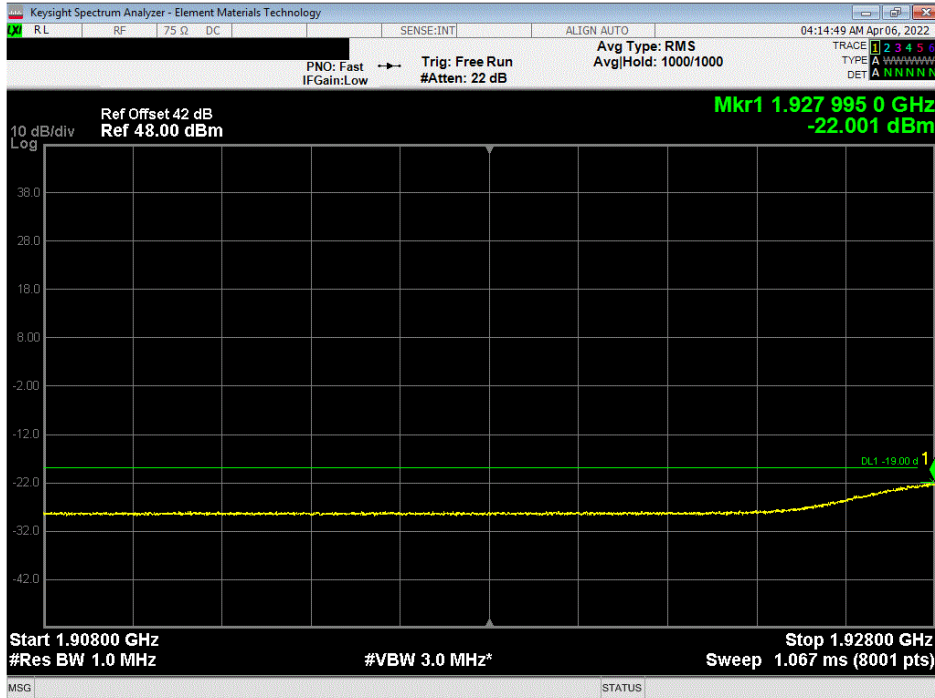
Configuration #	Port	Test Case	Modulation	Carrier	Frequency Range	Max Value (dBm)	Limit < (dBm)	Result
PCS Multicarrier Multiband	Port 1	Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier)	QPSK Modulation	PCS Carrier 1, 1932.5 MHz	1	-25.2	-19	Pass
				PCS Carrier 1, 1932.5 MHz	2	-22.0	-19	Pass
				PCS Carrier 1, 1932.5 MHz	3	-22.0	-19	Pass
				PCS Carrier 3, 1992.5 MHz	1	-24.7	-19	Pass
				PCS Carrier 3, 1992.5 MHz	2	-23.9	-19	Pass
				PCS Carrier 3, 1992.5 MHz	3	-22.9	-19	Pass
			16-QAM Modulation	PCS Carrier 1, 1932.5 MHz	1	-26.2	-19	Pass
				PCS Carrier 1, 1932.5 MHz	2	-22.7	-19	Pass
				PCS Carrier 1, 1932.5 MHz	3	-22.4	-19	Pass
				PCS Carrier 3, 1992.5 MHz	1	-24.7	-19	Pass
				PCS Carrier 3, 1992.5 MHz	2	-23.5	-19	Pass
				PCS Carrier 3, 1992.5 MHz	3	-22.9	-19	Pass
			64-QAM Modulation	PCS Carrier 1, 1932.5 MHz	1	-24.8	-19	Pass
				PCS Carrier 1, 1932.5 MHz	2	-22.7	-19	Pass
				PCS Carrier 1, 1932.5 MHz	3	-22.6	-19	Pass
				PCS Carrier 3, 1992.5 MHz	1	-24.1	-19	Pass
				PCS Carrier 3, 1992.5 MHz	2	-23.8	-19	Pass
				PCS Carrier 3, 1992.5 MHz	3	-22.8	-19	Pass
			256-QAM Modulation	PCS Carrier 1, 1932.5 MHz	1	-24.6	-19	Pass
				PCS Carrier 1, 1932.5 MHz	2	-23.0	-19	Pass
				PCS Carrier 1, 1932.5 MHz	3	-22.2	-19	Pass
				PCS Carrier 3, 1992.5 MHz	1	-24.9	-19	Pass
				PCS Carrier 3, 1992.5 MHz	2	-23.6	-19	Pass
				PCS Carrier 3, 1992.5 MHz	3	-22.9	-19	Pass
		Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier)	QPSK Modulation	PCS Carrier 1, 1945 MHz	1	-21.7	-19	Pass
				PCS Carrier 1, 1945 MHz	2	-20.4	-19	Pass
				PCS Carrier 1, 1945 MHz	3	-19.8	-19	Pass
			16-QAM Modulation	PCS Carrier 1, 1945 MHz	1	-22.1	-19	Pass
				PCS Carrier 1, 1945 MHz	2	-20.4	-19	Pass
				PCS Carrier 1, 1945 MHz	3	-19.8	-19	Pass
			64-QAM Modulation	PCS Carrier 1, 1945 MHz	1	-22.1	-19	Pass
				PCS Carrier 1, 1945 MHz	2	-20.3	-19	Pass
				PCS Carrier 1, 1945 MHz	3	-19.8	-19	Pass
			256-QAM Modulation	PCS Carrier 1, 1945 MHz	1	-21.8	-19	Pass
				PCS Carrier 1, 1945 MHz	2	-19.8	-19	Pass
				PCS Carrier 1, 1945 MHz	3	-19.6	-19	Pass
		Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier)	QPSK Modulation	PCS Carrier 2, 1980 MHz	1	-22.6	-19	Pass
				PCS Carrier 2, 1980 MHz	2	-20.4	-19	Pass
				PCS Carrier 2, 1980 MHz	3	-19.6	-19	Pass
			16-QAM Modulation	PCS Carrier 2, 1980 MHz	1	-23.3	-19	Pass
				PCS Carrier 2, 1980 MHz	2	-20.3	-19	Pass
				PCS Carrier 2, 1980 MHz	3	-19.9	-19	Pass
			64-QAM Modulation	PCS Carrier 2, 1980 MHz	1	-22.6	-19	Pass
				PCS Carrier 2, 1980 MHz	2	-20.4	-19	Pass
				PCS Carrier 2, 1980 MHz	3	-19.6	-19	Pass
			256-QAM Modulation	PCS Carrier 2, 1980 MHz	1	-21.2	-19	Pass
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				PCS Carrier 2, 1980 MHz	3	-20.1	-19	Pass

BAND EDGE COMPLIANCE

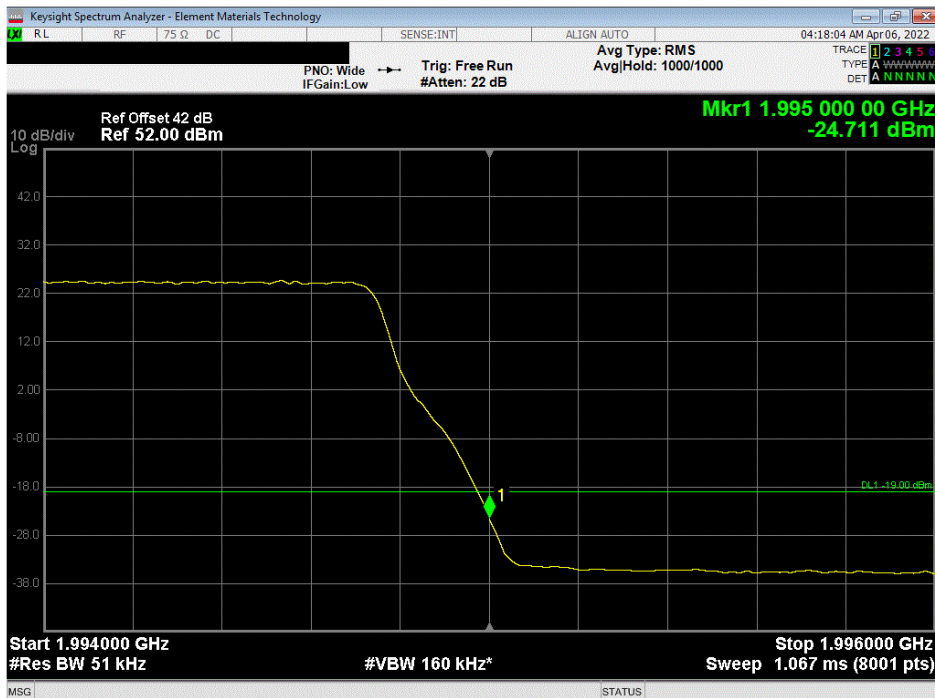


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.0	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.71	-19	Pass			

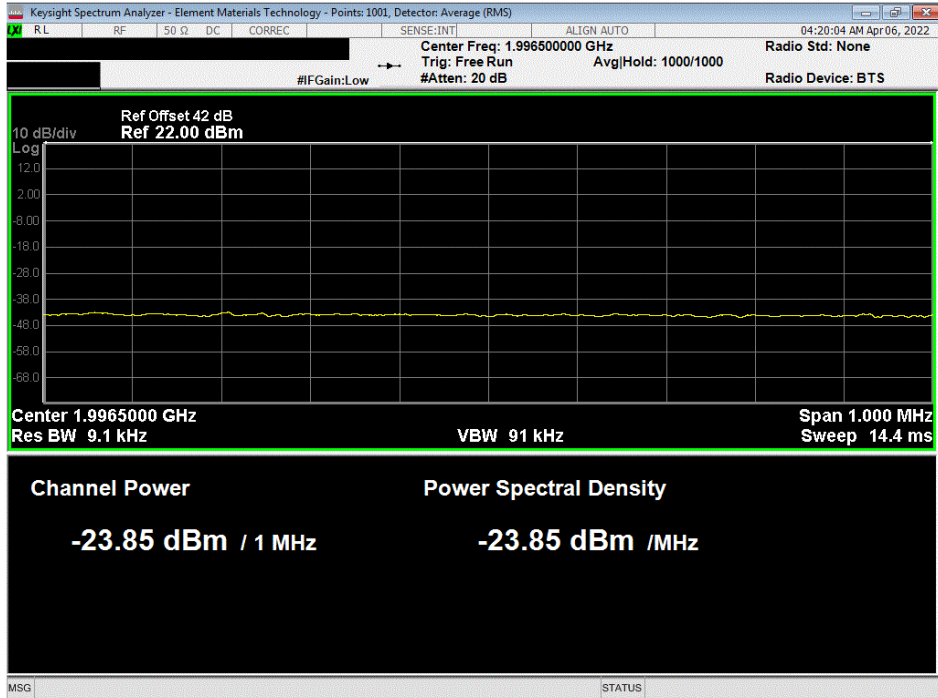


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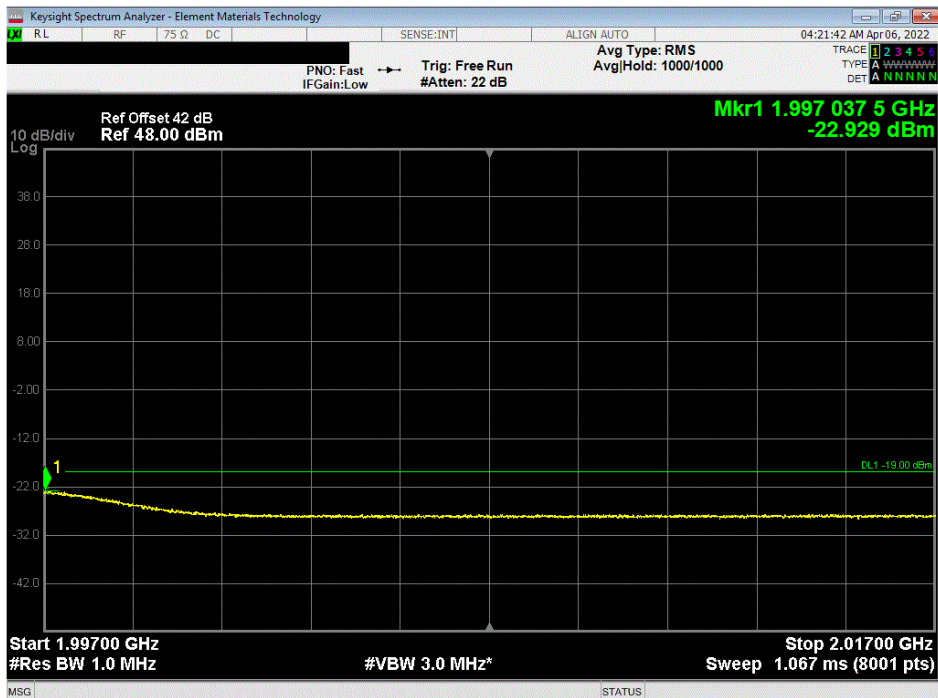


TbTx 2021.12.14.1 XMit 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-2.39E+01	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.93	-19	Pass			

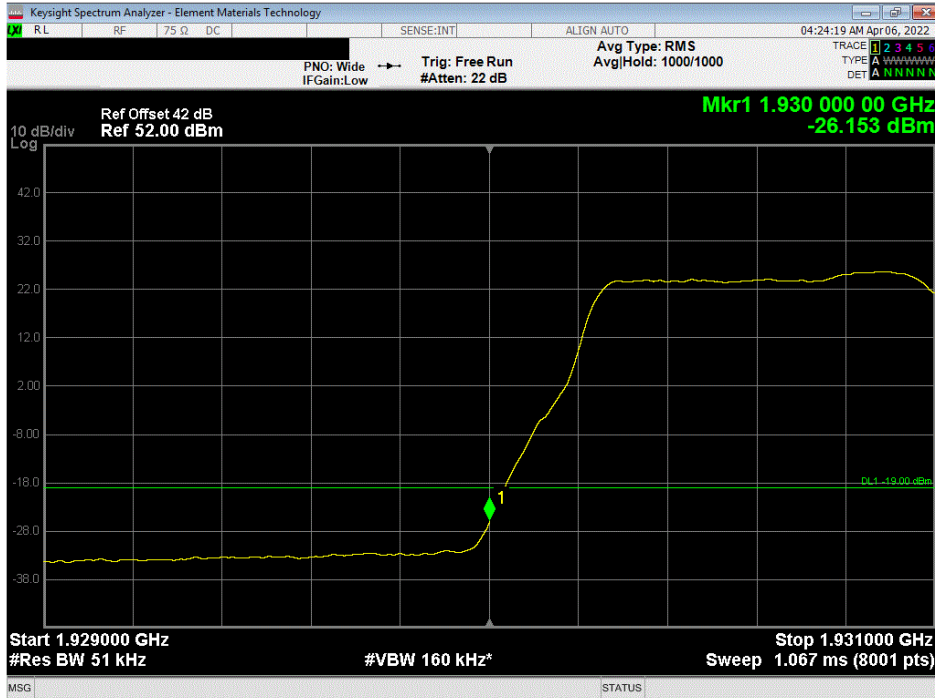


BAND EDGE COMPLIANCE

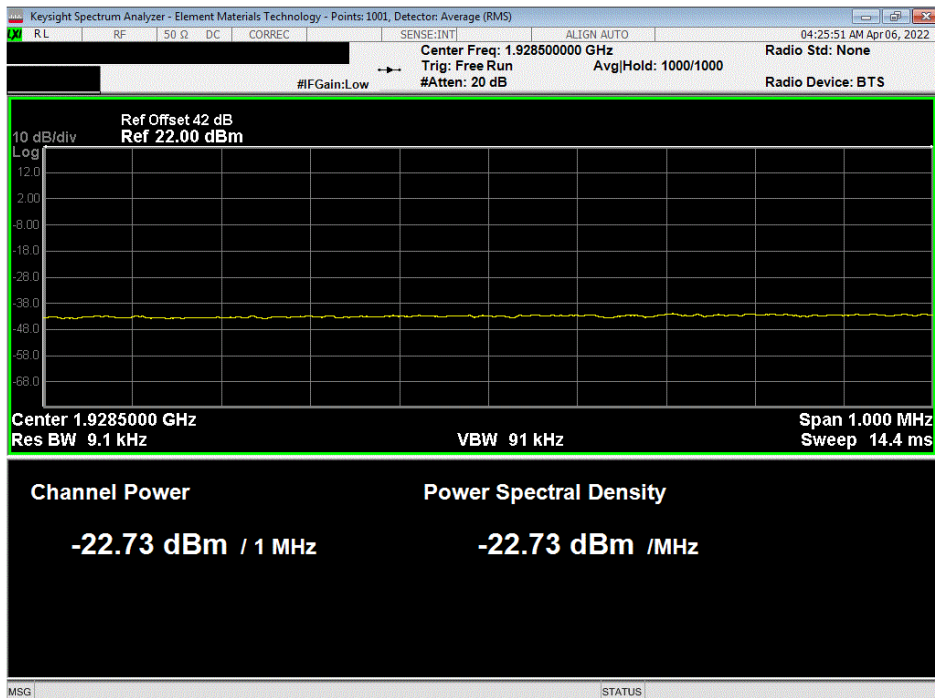


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.15	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.7	-19	Pass			

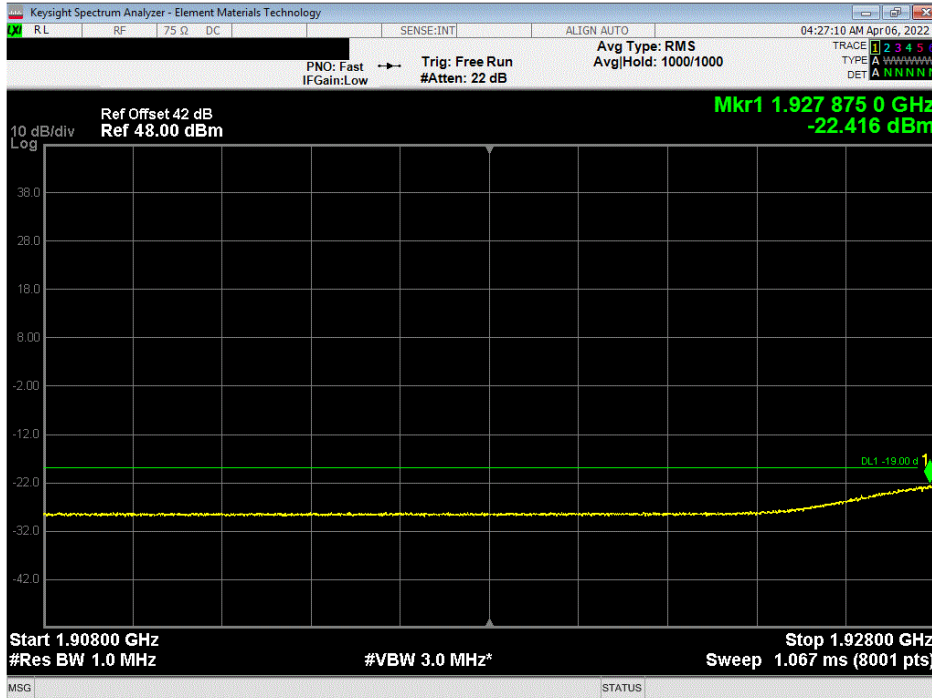


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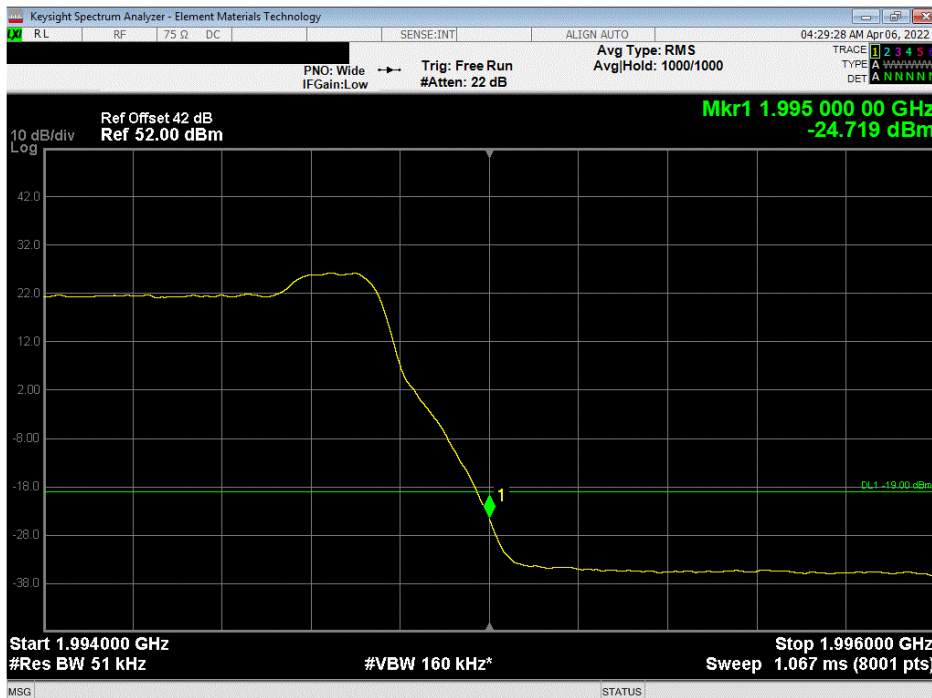


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.42	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.72	-19	Pass			

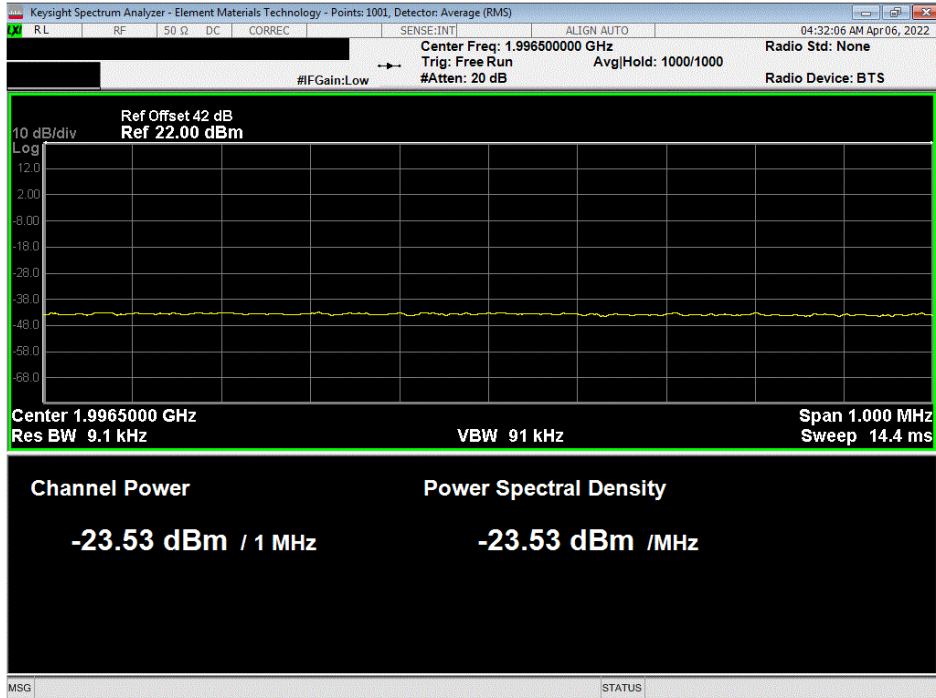


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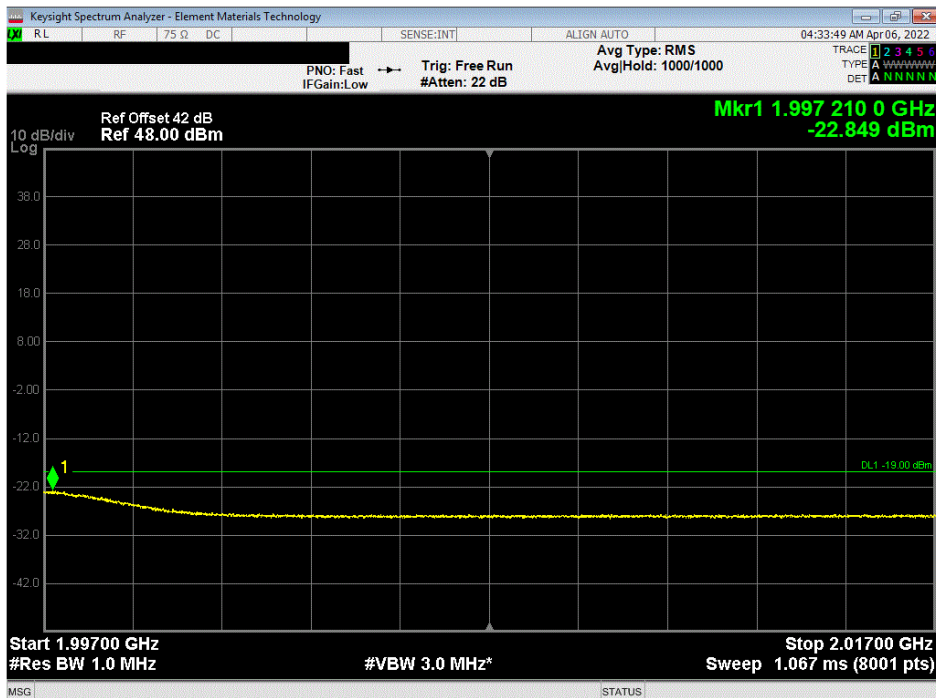


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.5	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.85	-19	Pass			

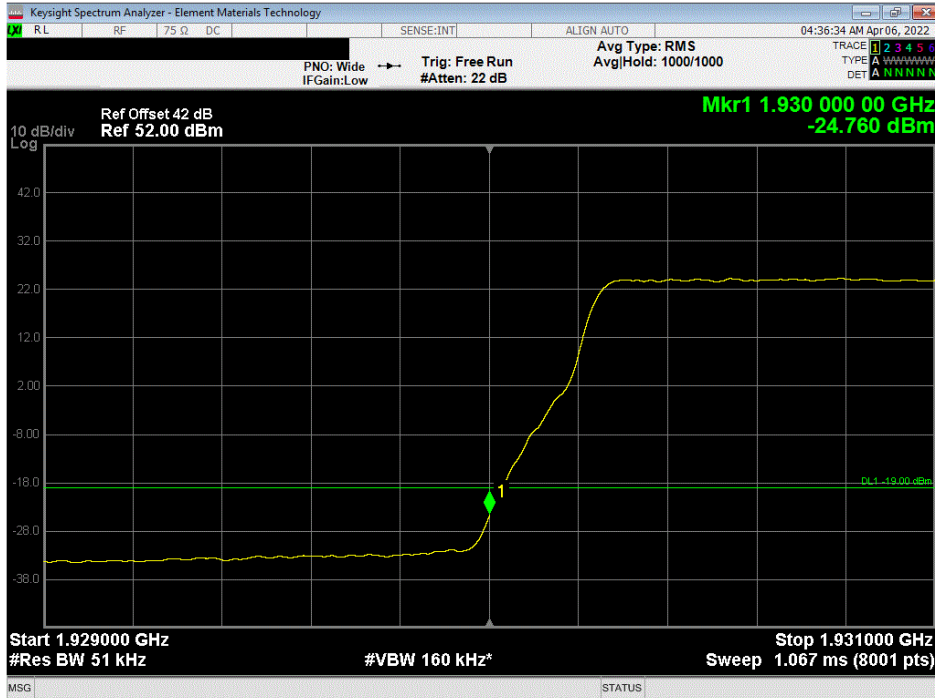


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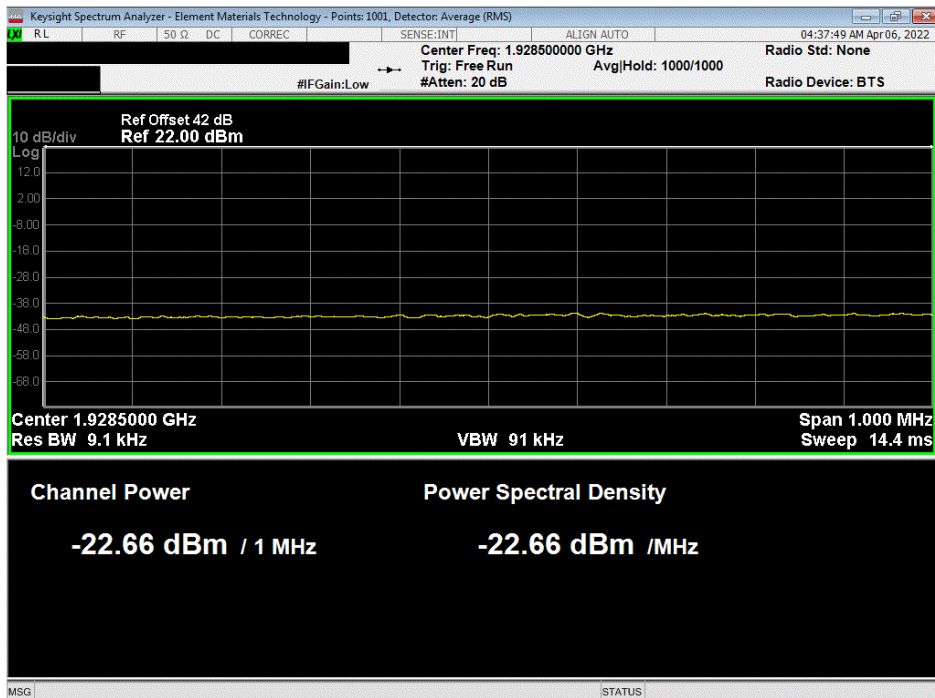


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PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.76	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.7	-19	Pass			

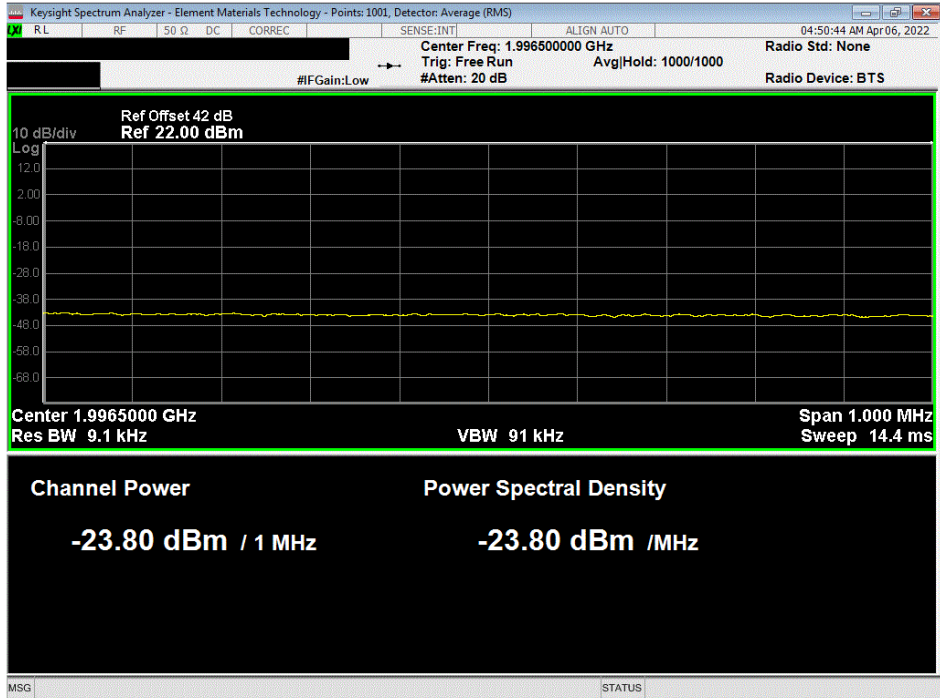


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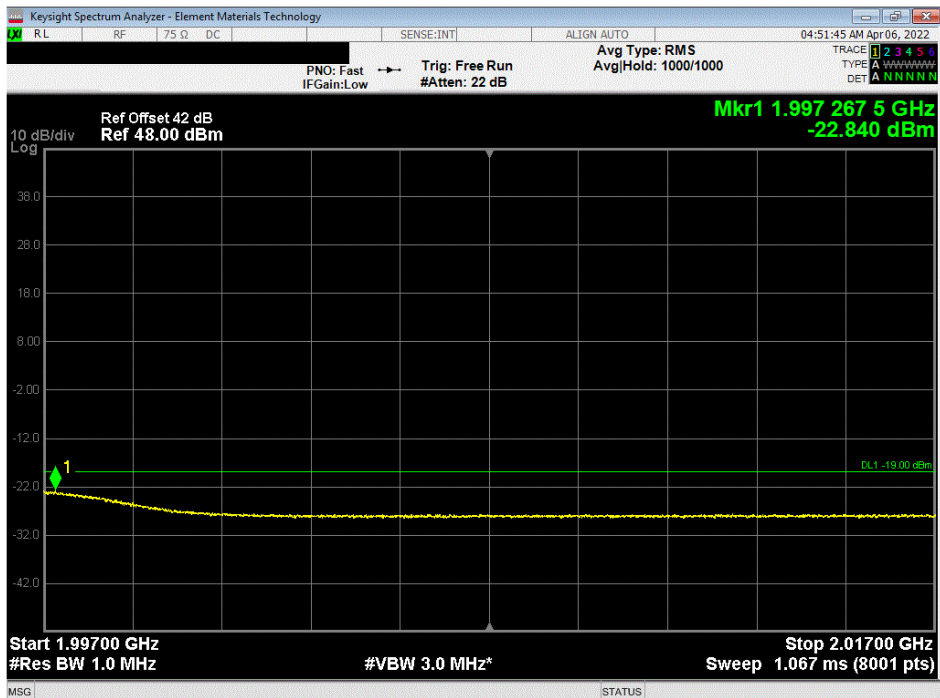


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.8	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.84	-19	Pass			

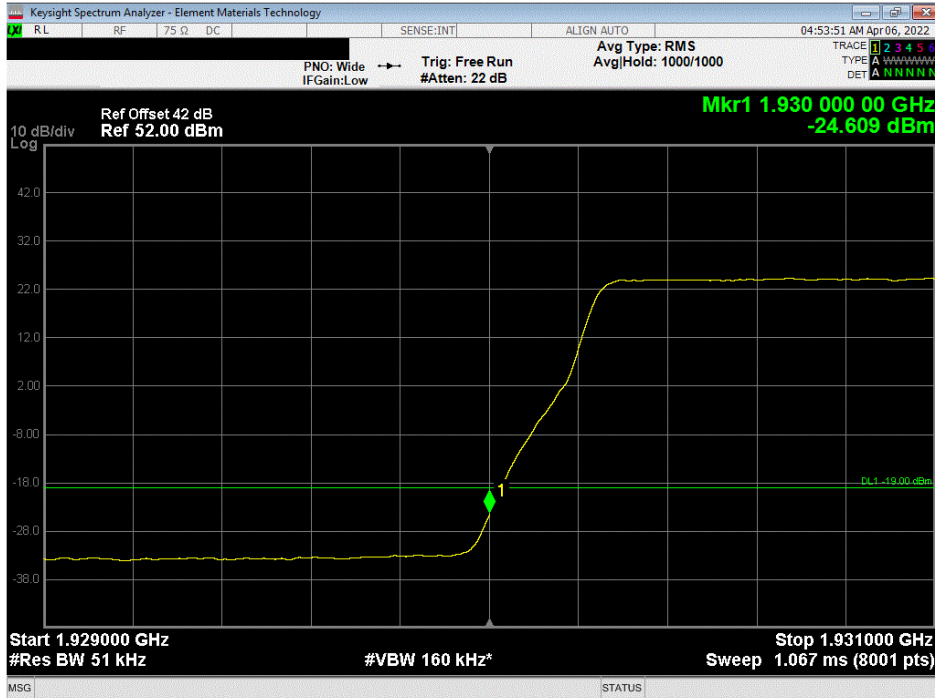


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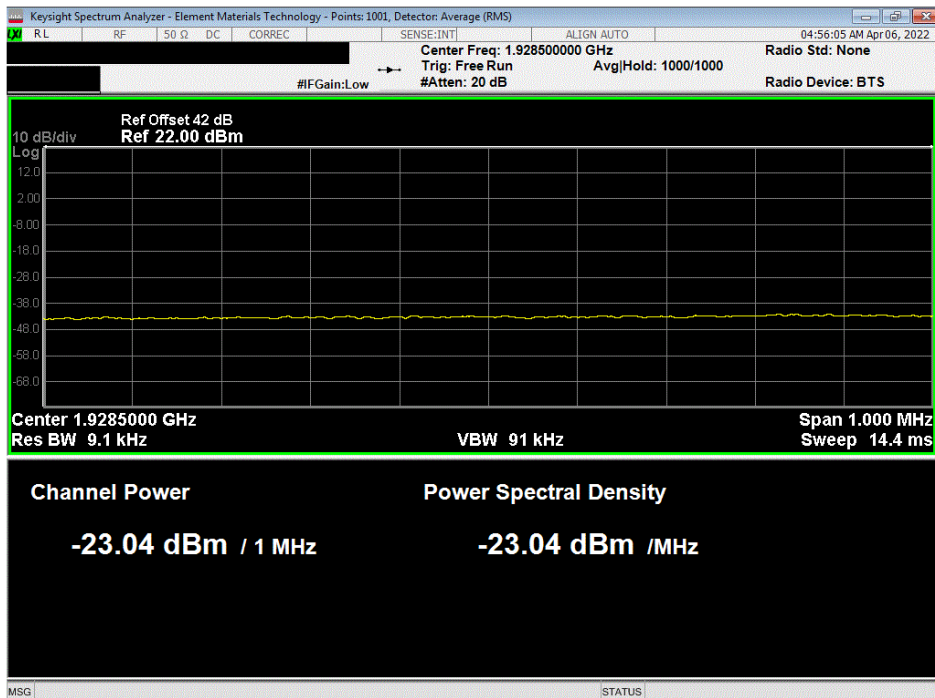


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PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.61	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.0	-19	Pass			

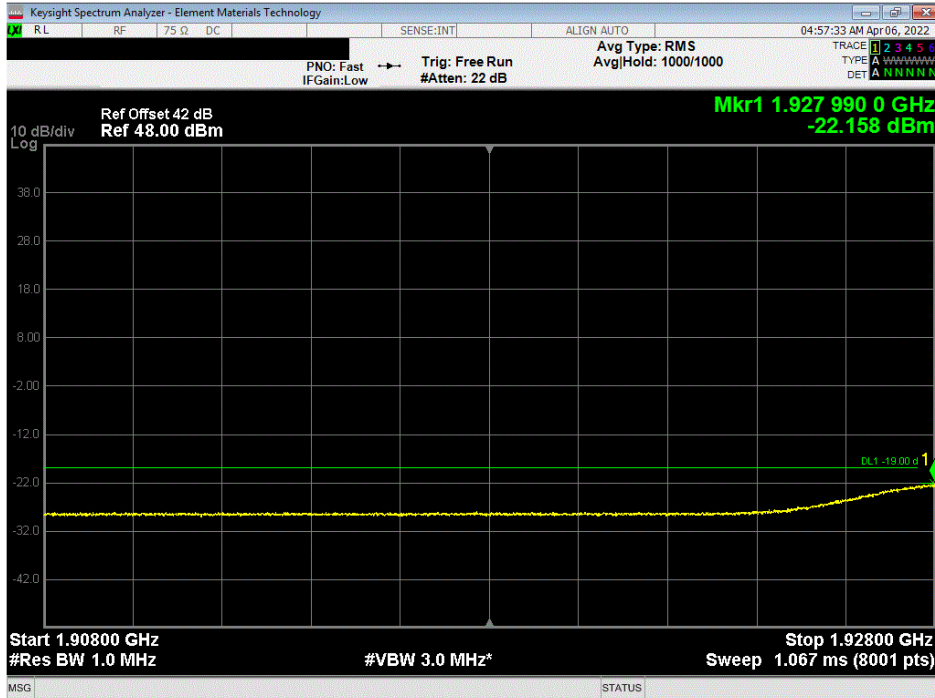


BAND EDGE COMPLIANCE

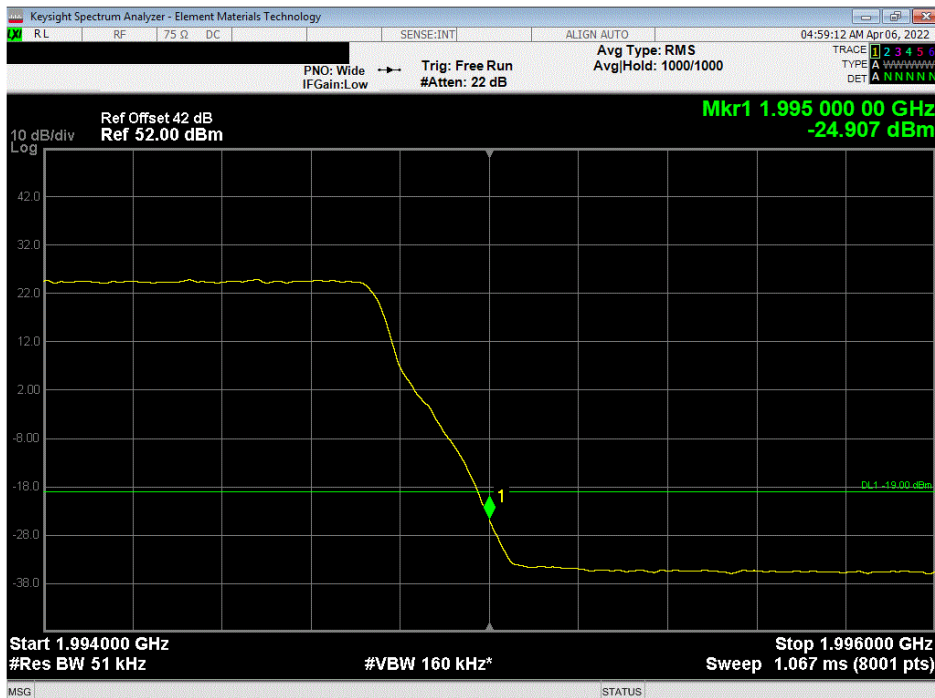


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.16	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.91	-19	Pass			

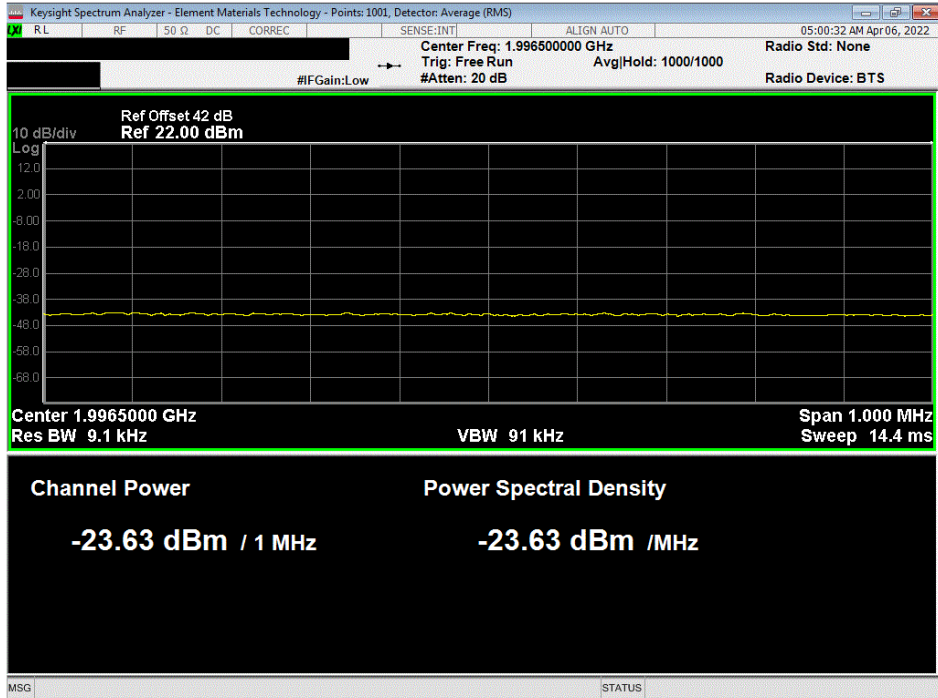


BAND EDGE COMPLIANCE

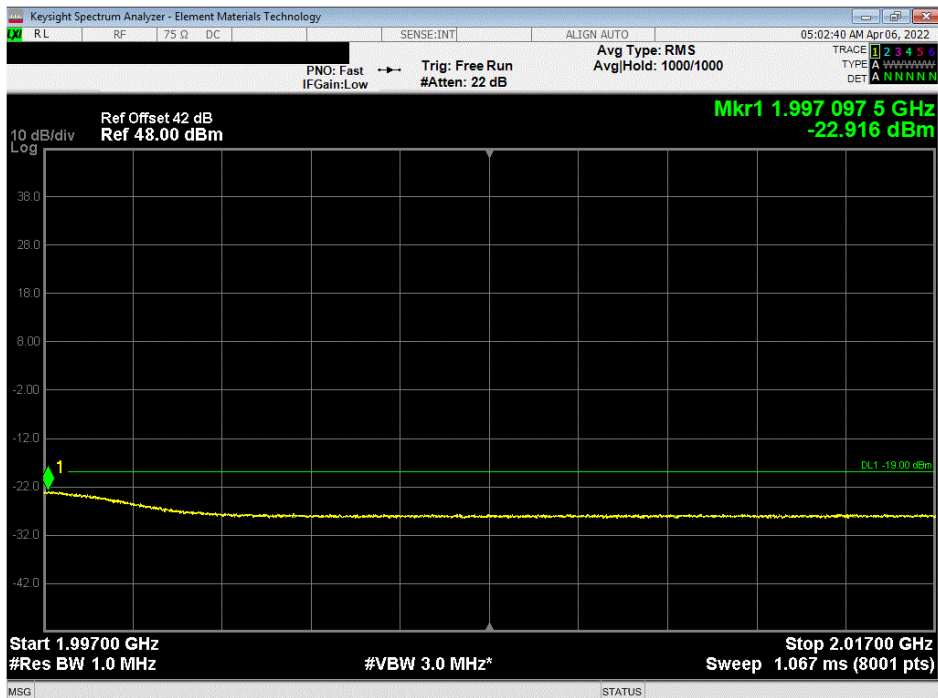


TbTx 2021.12.14.1 XMit 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.6	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 1: PCS Band NR5 (3 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 3, 1992.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.92	-19	Pass			

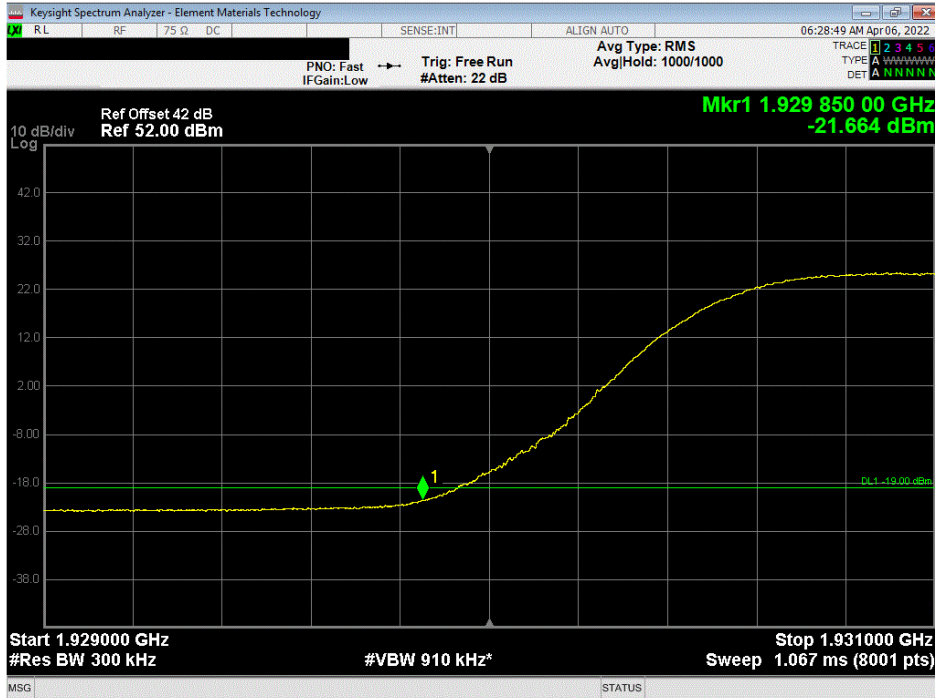


BAND EDGE COMPLIANCE

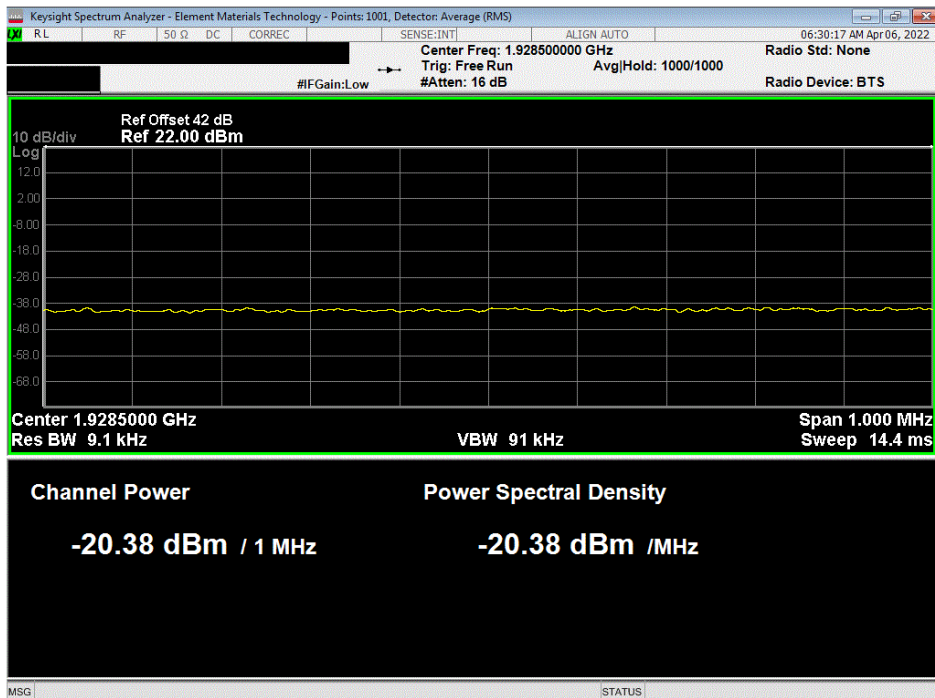


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.66	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

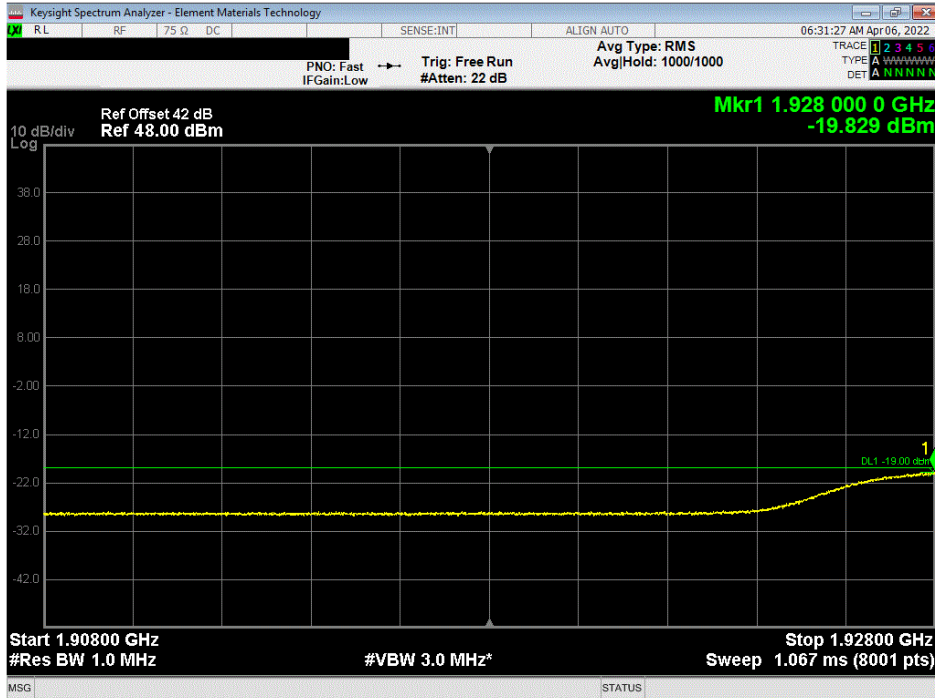


BAND EDGE COMPLIANCE

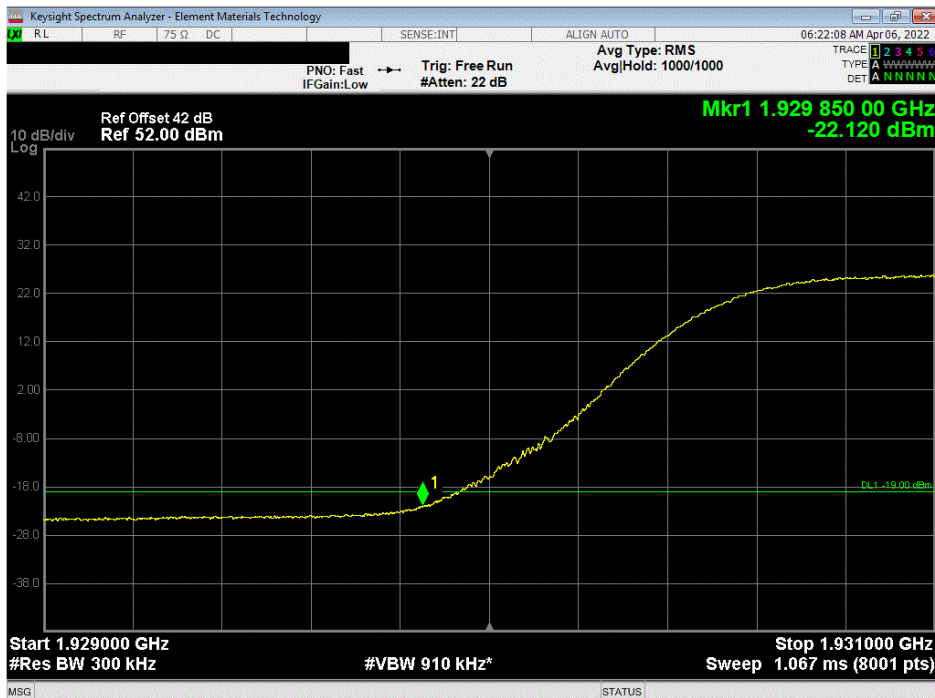


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.83	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.12	-19	Pass			

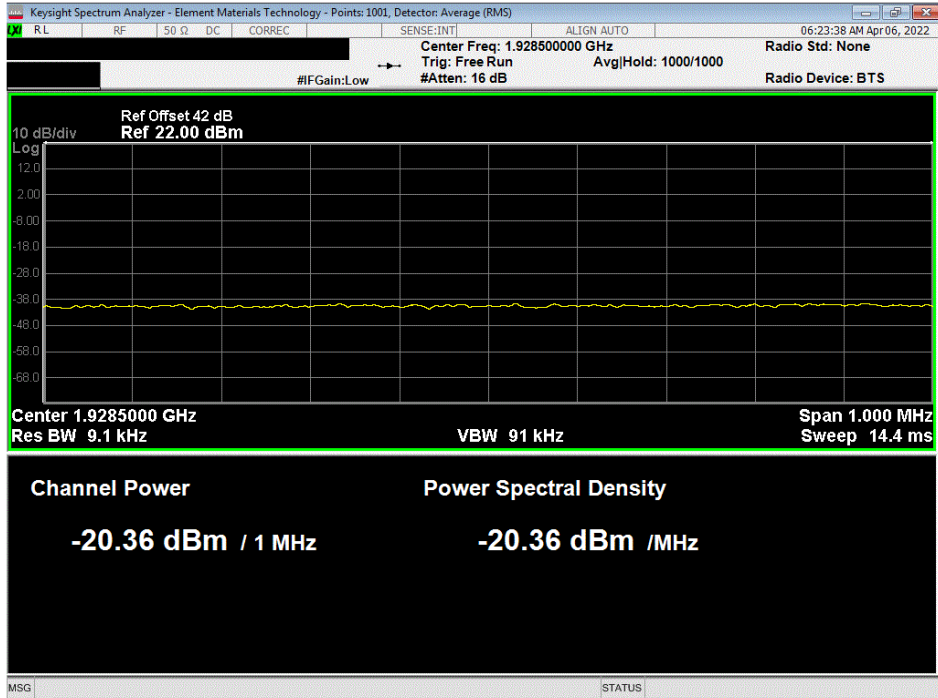


BAND EDGE COMPLIANCE

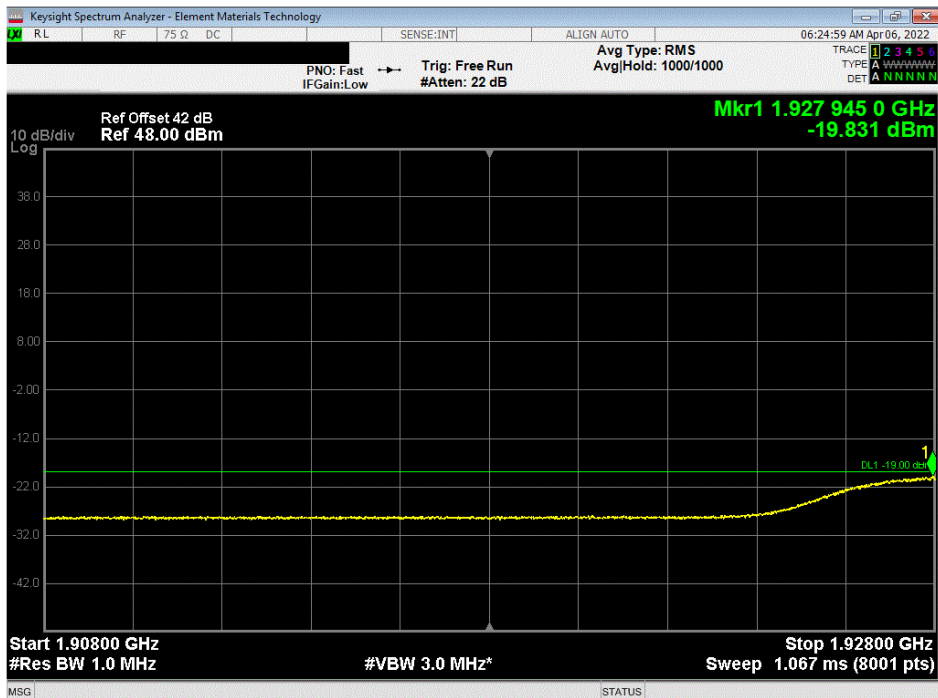


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.83	-19	Pass			

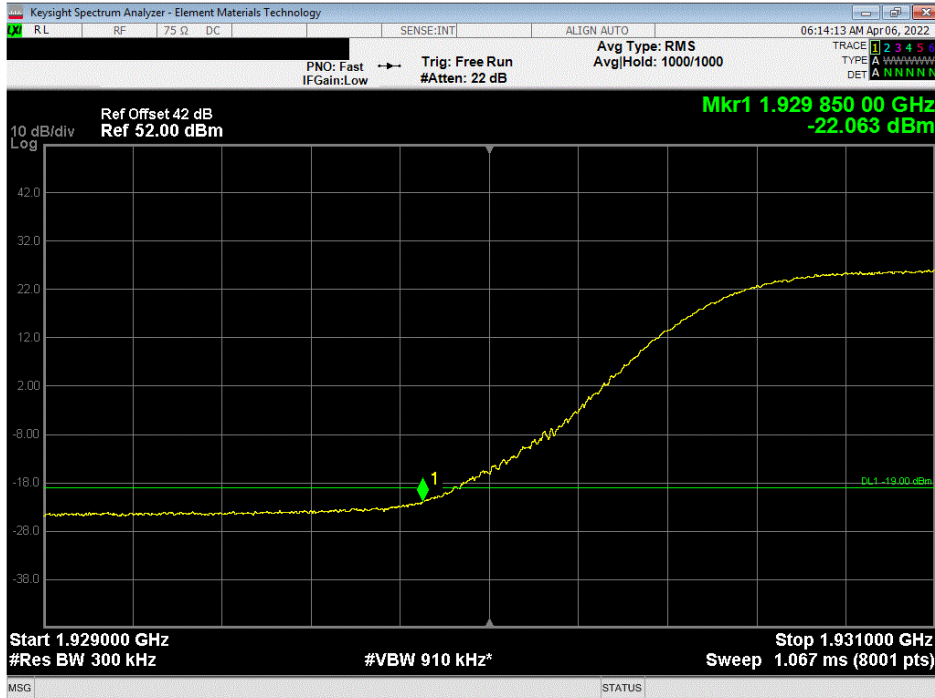


BAND EDGE COMPLIANCE

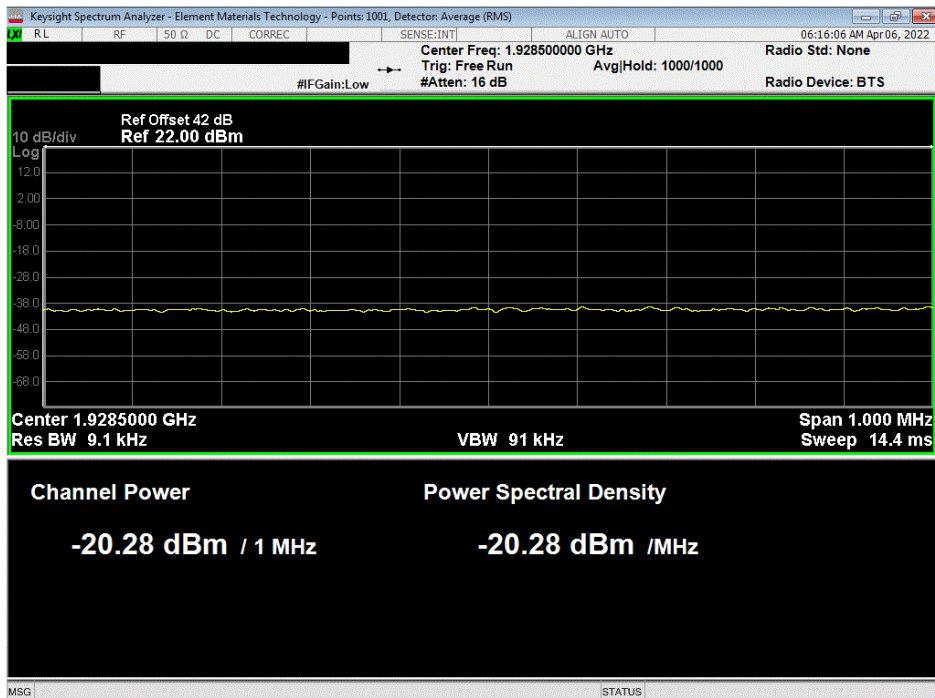


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.06	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.3	-19	Pass			

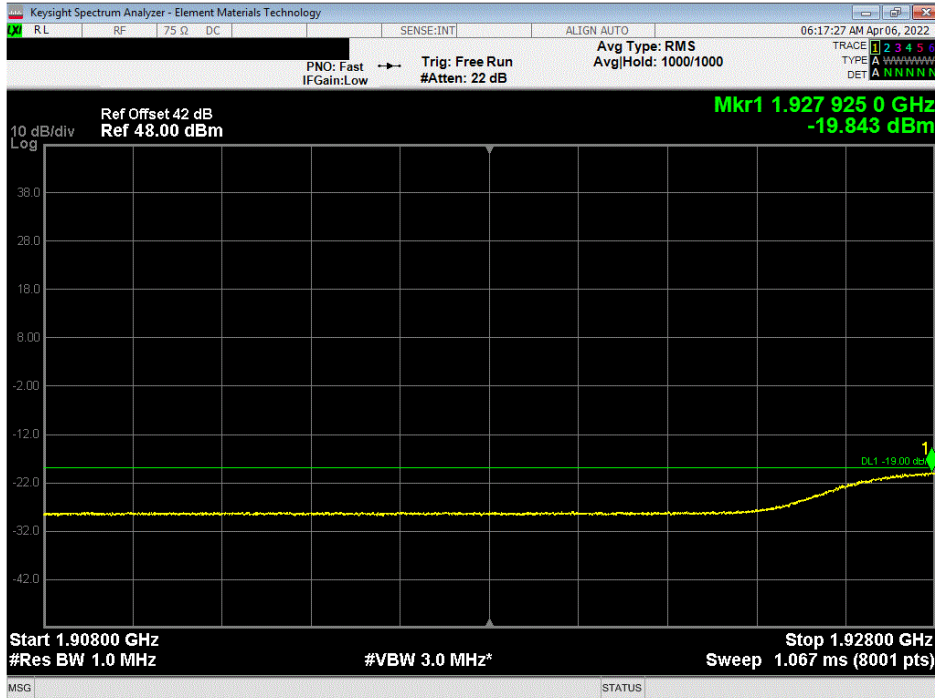


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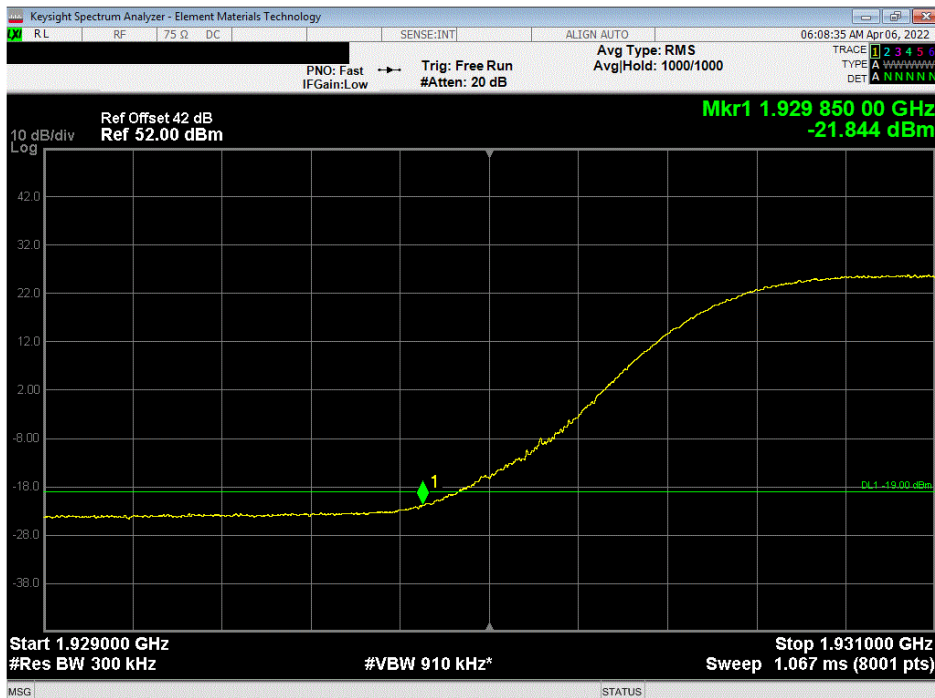


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.84	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.84	-19	Pass			

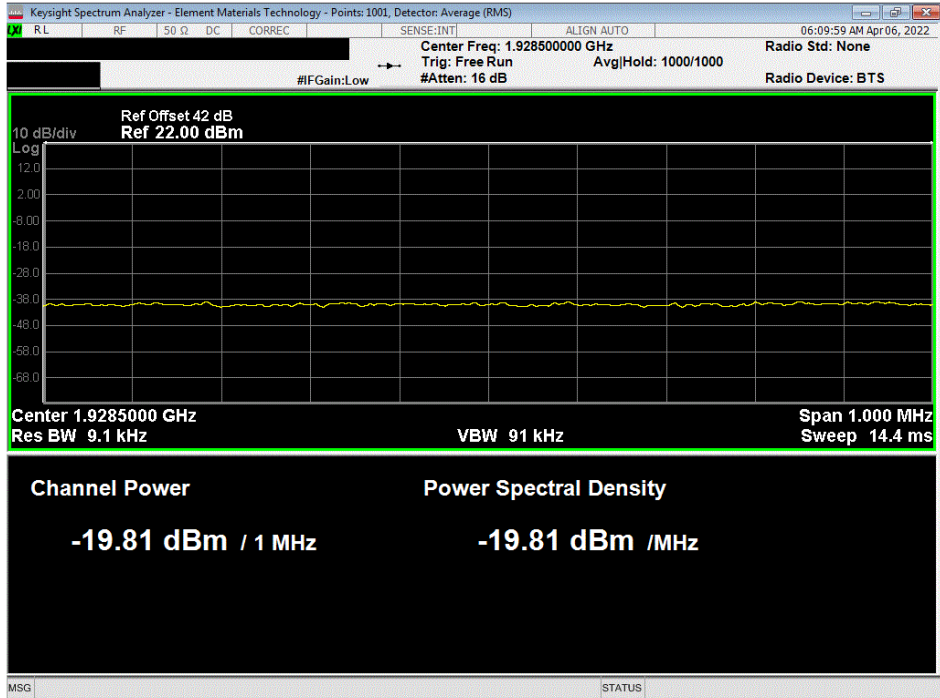


BAND EDGE COMPLIANCE

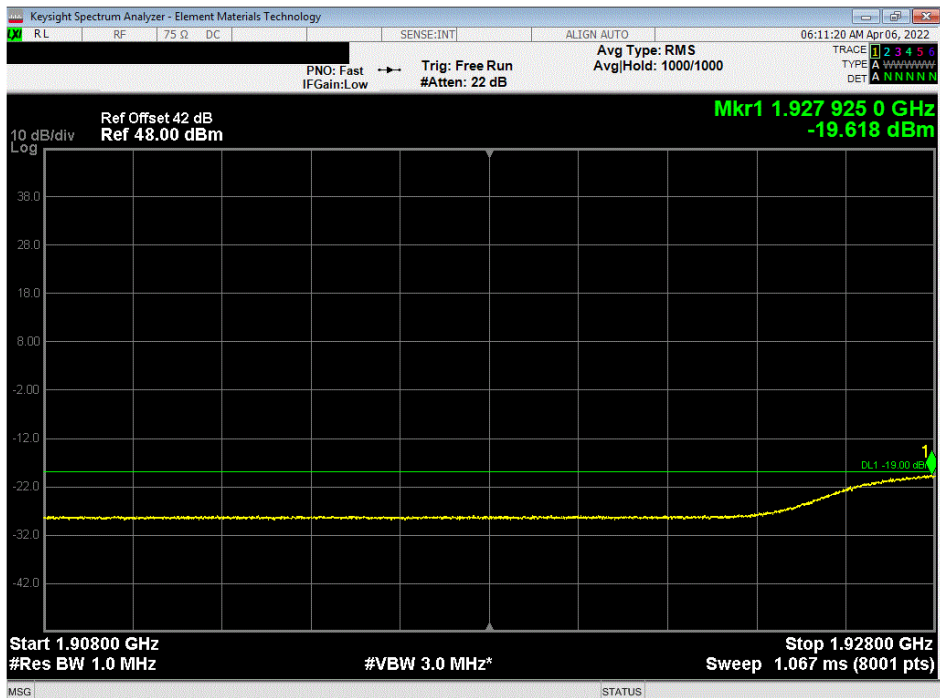


TbTx 2021.12.14.1 XMit 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-19.81	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 2: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1945 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.62	-19	Pass			

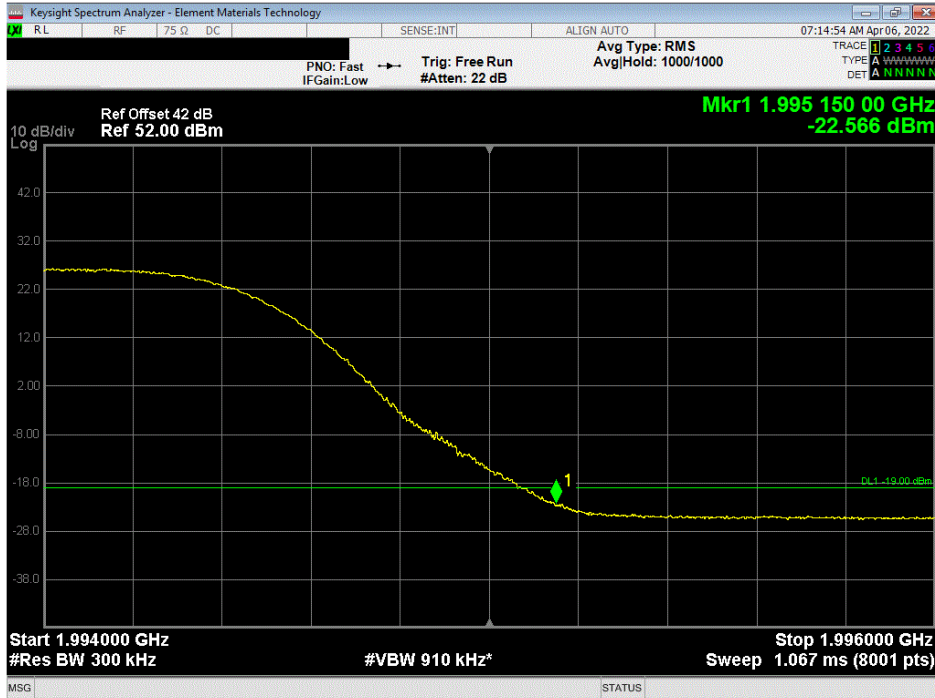


BAND EDGE COMPLIANCE

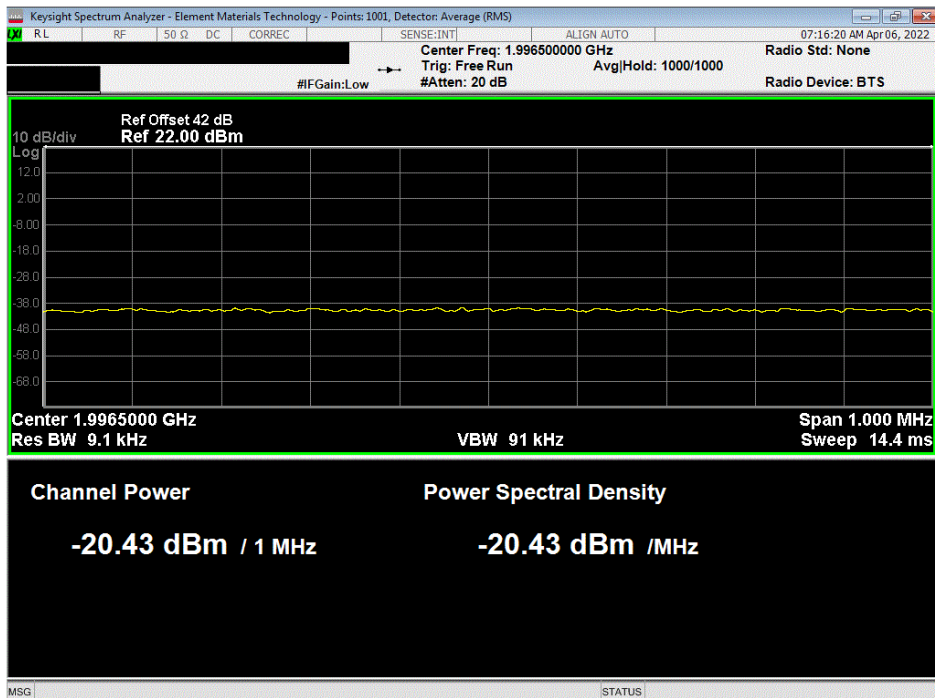


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.57	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

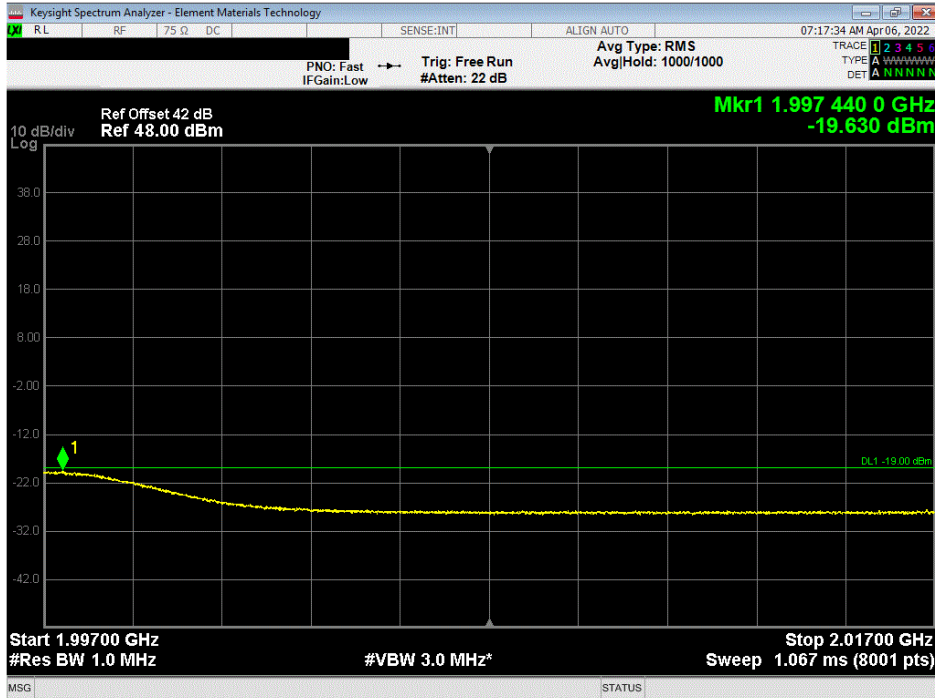


BAND EDGE COMPLIANCE

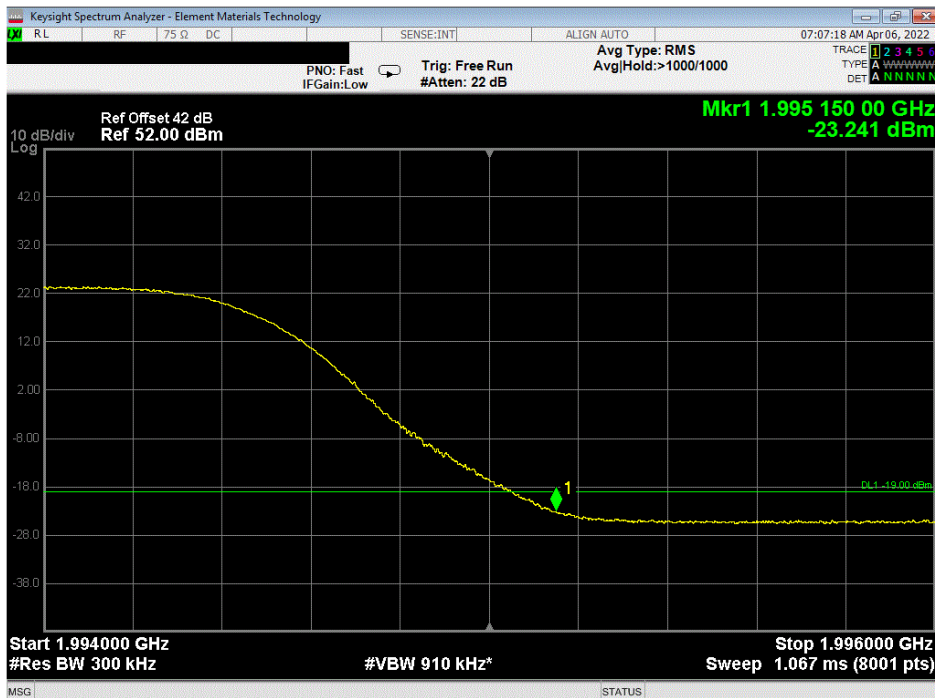


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), QPSK Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.63	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.29	-19	Pass			

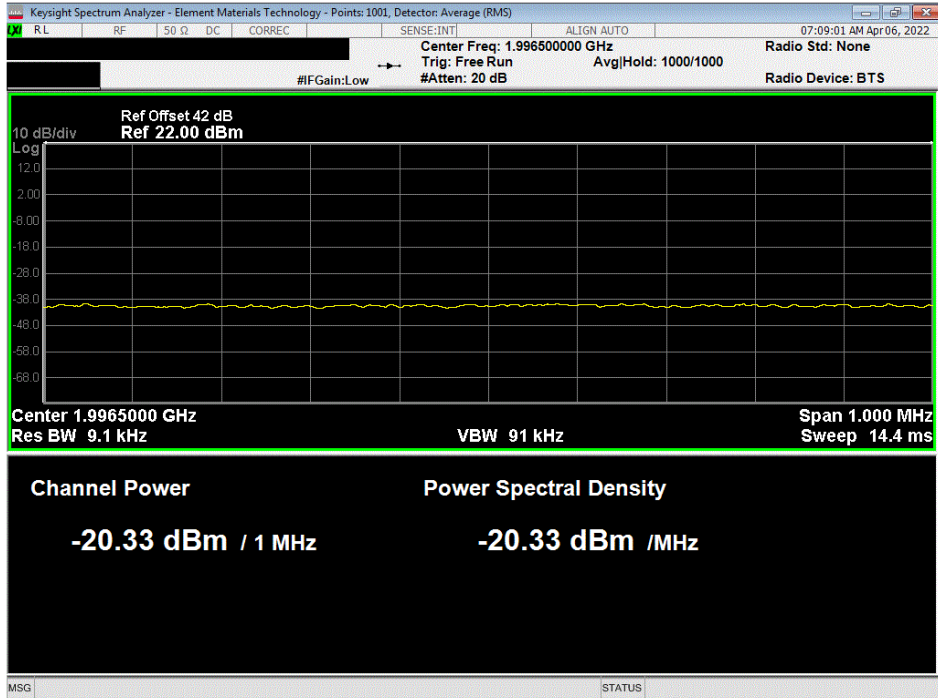


BAND EDGE COMPLIANCE

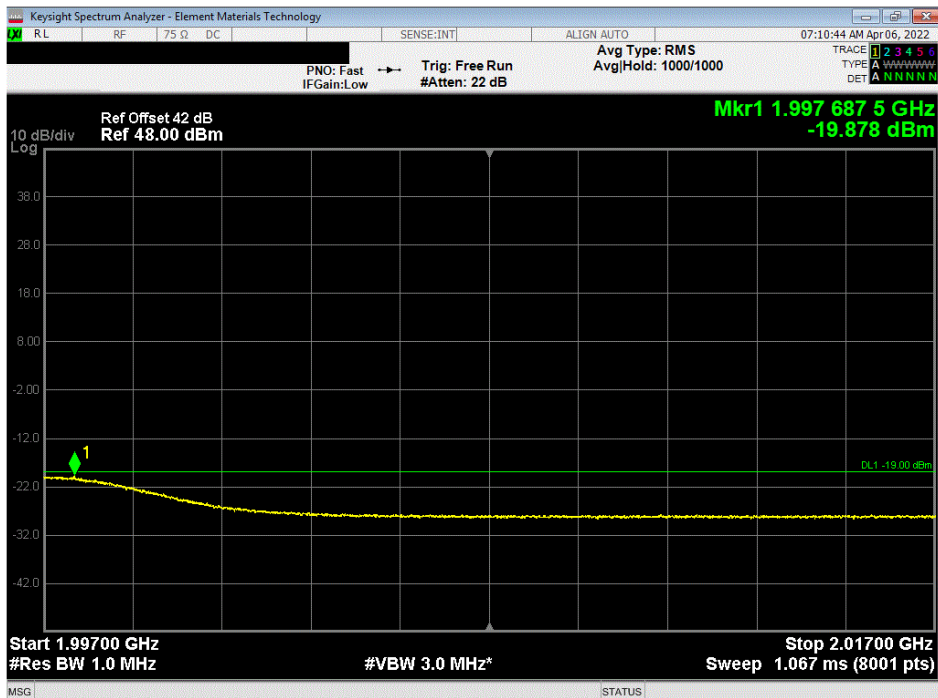


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.33	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 16-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.88	-19	Pass			

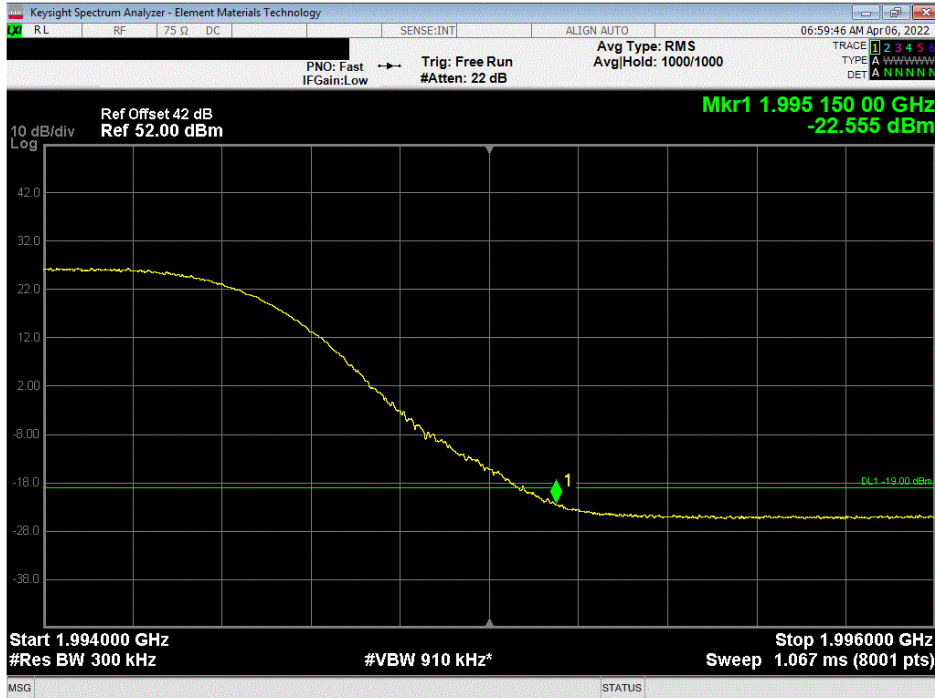


BAND EDGE COMPLIANCE

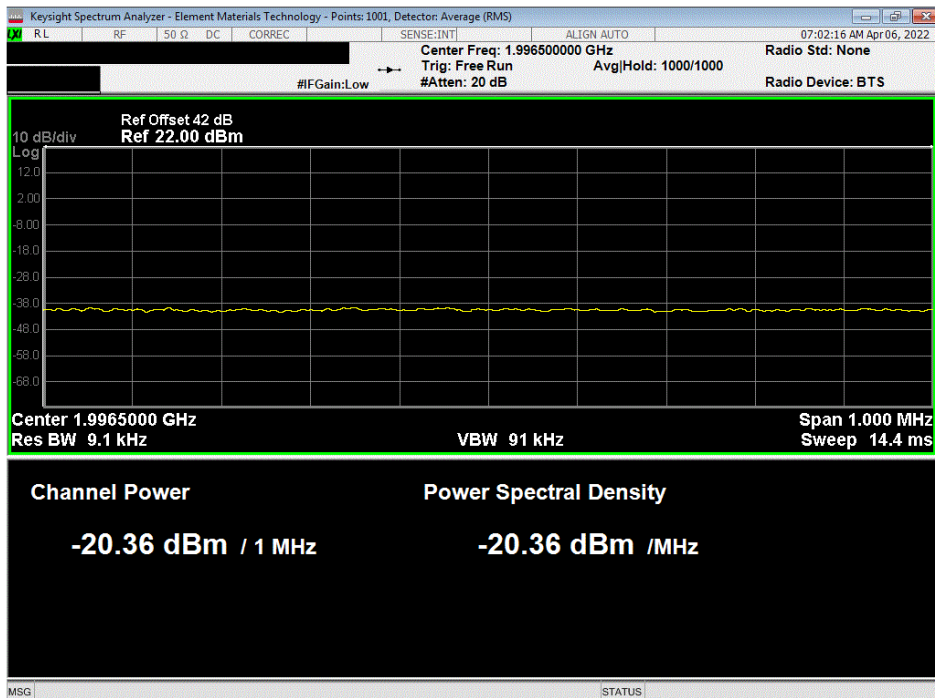


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.56	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.4	-19	Pass			

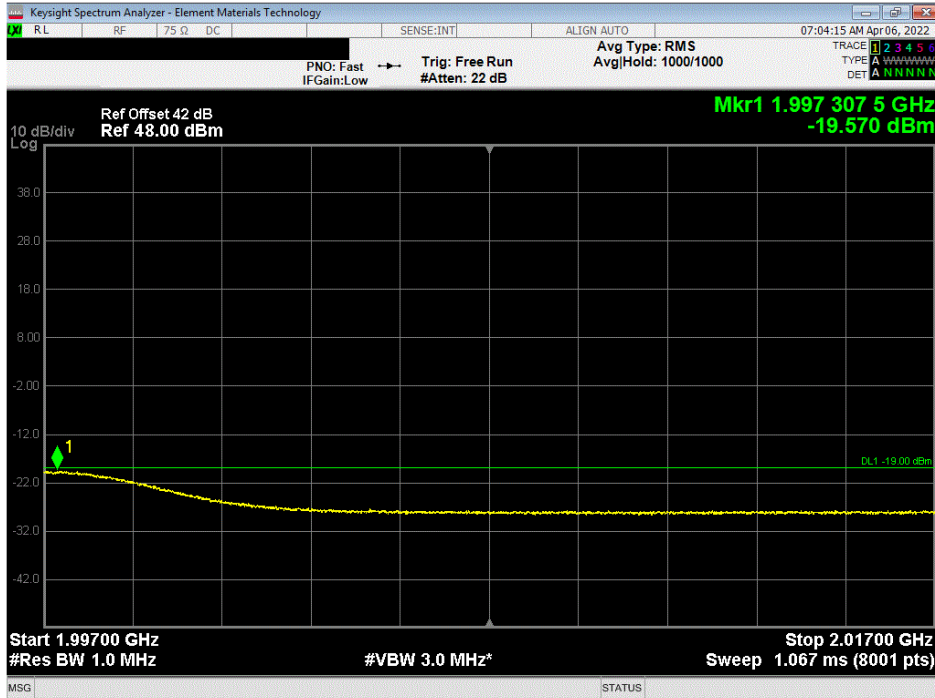


BAND EDGE COMPLIANCE

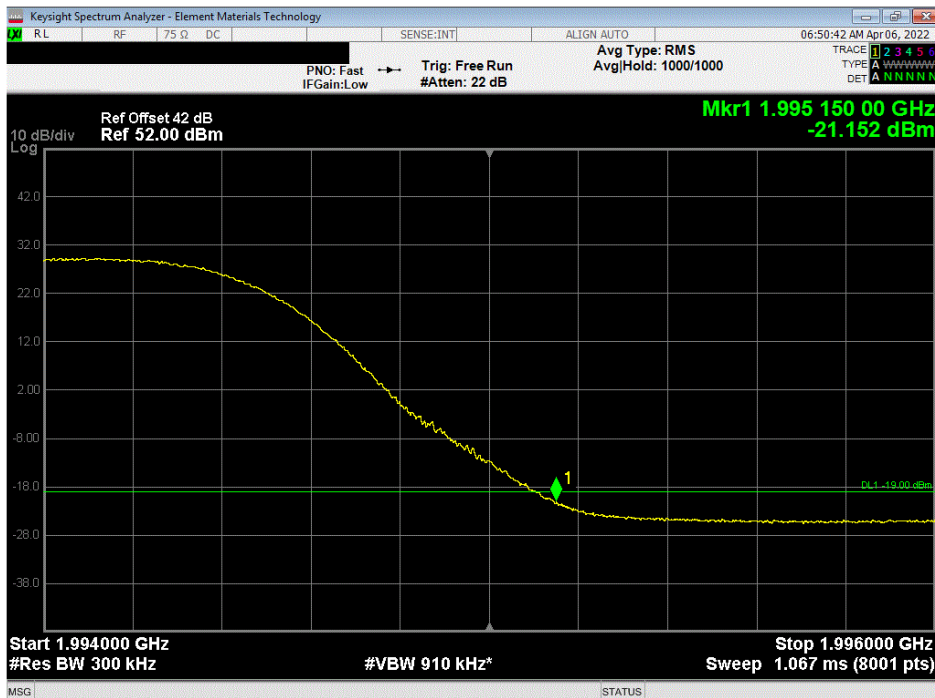


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 64-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-19.57	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-21.15	-19	Pass			

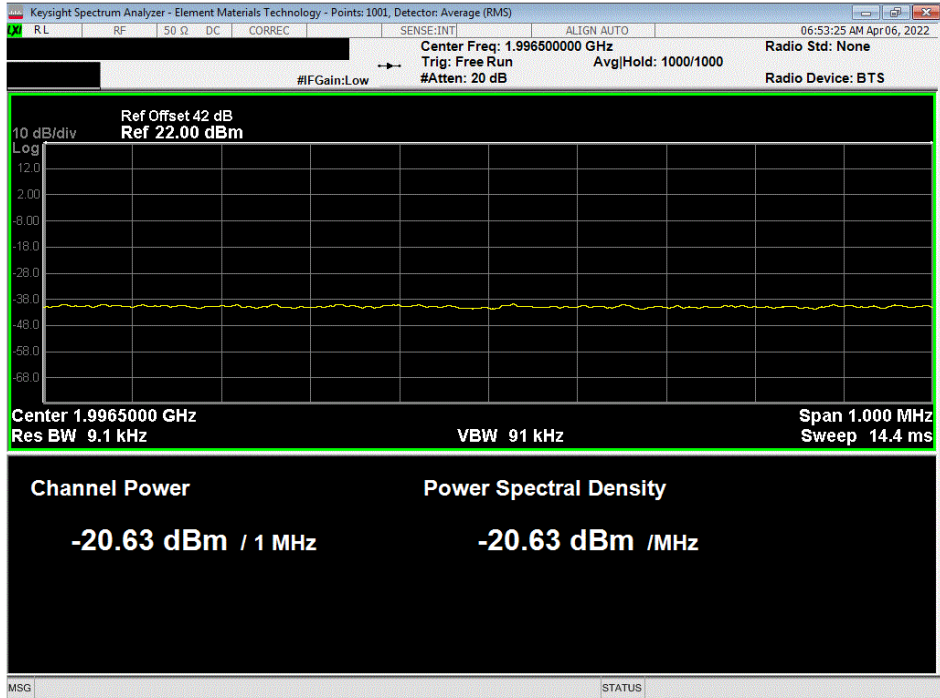


BAND EDGE COMPLIANCE

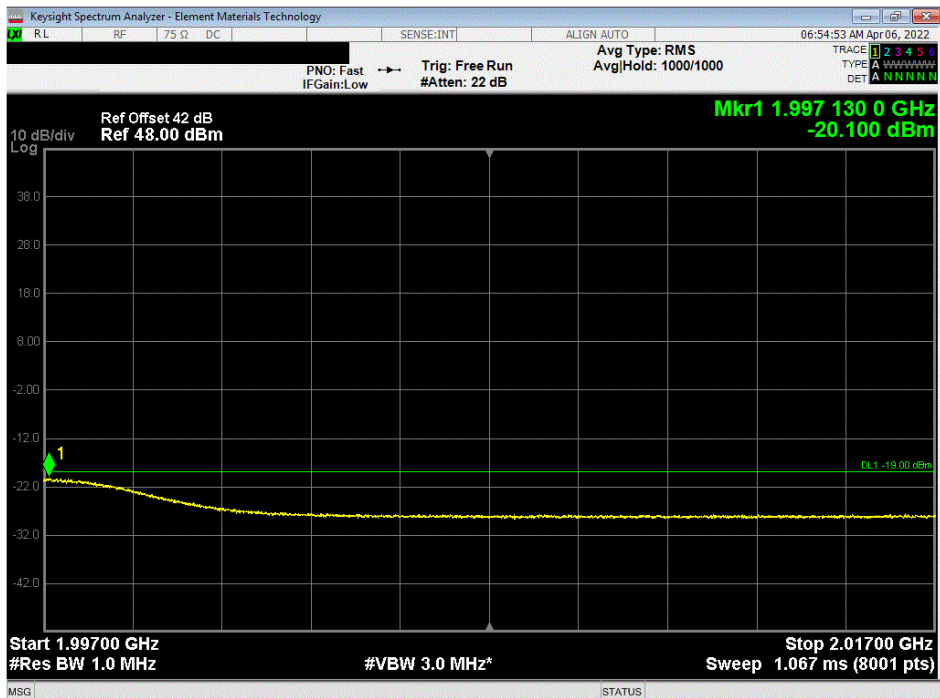


TbTx 2021.12.14.1 XMI 2022.02.07.0

PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-20.63	-19	Pass			



PCS Multicarrier Multiband, Port 1, Test Case 3: PCS Band NR30 (2 Carriers), AWS Band NR30 (Single Carrier), 256-QAM Modulation, PCS Carrier 2, 1980 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.1	-19	Pass			



BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMI 2022.02.07.0

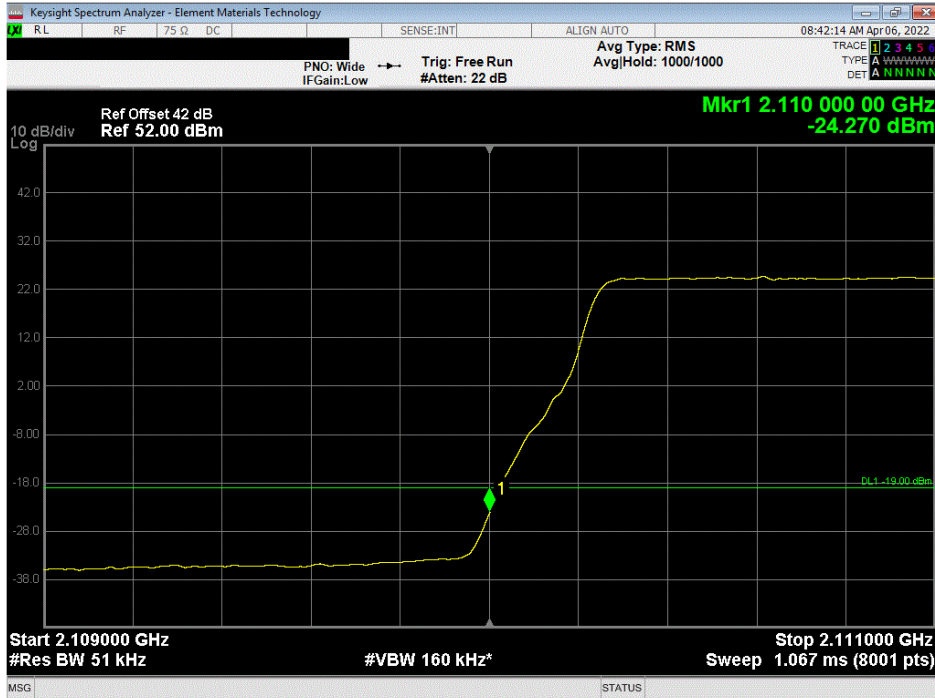
EUT: AHFII Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK21400035		Date: 6-Apr-22	
Customer: Nokia of America Corporation		Temperature: 22.6 °C	
Attendees: Mitchell Hill		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan		Job Site: TX09	
Power: 54 VDC			
TEST SPECIFICATIONS			
FCC 27:2022		Test Method	
RSS-139 Issue 3:2015		ANSI C63.26:2015	
RSS-170 Issue 3:2015		RSS-139 Issue 3:2015	
RSS-170 Issue 3:2015		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. For Test Case 1: the carriers are operated at maximum power (~26.6W or ~44.2dBm/AWS carrier and 40W/PCS carrier) with at total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carrier). For Test Case 2 and 3: the carriers are operated at maximum power (~40W/AWS carrier and 40W/PCS carrier) with at total port power of 120 watts (80W for AWS band carriers + 40W for PCS band carrier). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance for Test Case 1.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		Frequency Range	Max Value (dBm) Limit < (dBm) Result
AWS Multicarrier Multiband			
Port 1			
Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier)			
QPSK Modulation			
		AWS Carrier 1, 2112.5 MHz	1 -24.3 -19 Pass
		AWS Carrier 1, 2112.5 MHz	2 -24.6 -19 Pass
		AWS Carrier 1, 2112.5 MHz	3 -23.1 -19 Pass
		AWS Carrier 3, 2197.5 MHz	1 -23.3 -19 Pass
		AWS Carrier 3, 2197.5 MHz	2 -25.5 -19 Pass
		AWS Carrier 3, 2197.5 MHz	3 -23.2 -19 Pass
16-QAM Modulation			
		AWS Carrier 1, 2112.5 MHz	1 -25.0 -19 Pass
		AWS Carrier 1, 2112.5 MHz	2 -24.7 -19 Pass
		AWS Carrier 1, 2112.5 MHz	3 -23.2 -19 Pass
		AWS Carrier 3, 2197.5 MHz	1 -24.2 -19 Pass
		AWS Carrier 3, 2197.5 MHz	2 -25.6 -19 Pass
		AWS Carrier 3, 2197.5 MHz	3 -23.6 -19 Pass
64-QAM Modulation			
		AWS Carrier 1, 2112.5 MHz	1 -24.8 -19 Pass
		AWS Carrier 1, 2112.5 MHz	2 -24.4 -19 Pass
		AWS Carrier 1, 2112.5 MHz	3 -22.8 -19 Pass
		AWS Carrier 3, 2197.5 MHz	1 -23.4 -19 Pass
		AWS Carrier 3, 2197.5 MHz	2 -25.4 -19 Pass
		AWS Carrier 3, 2197.5 MHz	3 -23.4 -19 Pass
256-QAM Modulation			
		AWS Carrier 1, 2112.5 MHz	1 -24.1 -19 Pass
		AWS Carrier 1, 2112.5 MHz	2 -24.7 -19 Pass
		AWS Carrier 1, 2112.5 MHz	3 -23.2 -19 Pass
		AWS Carrier 3, 2197.5 MHz	1 -23.1 -19 Pass
		AWS Carrier 3, 2197.5 MHz	2 -25.9 -19 Pass
		AWS Carrier 3, 2197.5 MHz	3 -23.8 -19 Pass
Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier)			
QPSK Modulation			
		AWS Carrier 1, 2125 MHz	1 -22.7 -19 Pass
		AWS Carrier 1, 2125 MHz	2 -21.9 -19 Pass
		AWS Carrier 1, 2125 MHz	3 -20.7 -19 Pass
16-QAM Modulation			
		AWS Carrier 1, 2125 MHz	1 -23.2 -19 Pass
		AWS Carrier 1, 2125 MHz	2 -22.4 -19 Pass
		AWS Carrier 1, 2125 MHz	3 -21.1 -19 Pass
64-QAM Modulation			
		AWS Carrier 1, 2125 MHz	1 -23.1 -19 Pass
		AWS Carrier 1, 2125 MHz	2 -22.1 -19 Pass
		AWS Carrier 1, 2125 MHz	3 -21.1 -19 Pass
256-QAM Modulation			
		AWS Carrier 1, 2125 MHz	1 -23.3 -19 Pass
		AWS Carrier 1, 2125 MHz	2 -22.3 -19 Pass
		AWS Carrier 1, 2125 MHz	3 -21.2 -19 Pass
Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier)			
QPSK Modulation			
		AWS Carrier 2, 2185 MHz	1 -23.2 -19 Pass
		AWS Carrier 2, 2185 MHz	2 -23.1 -19 Pass
		AWS Carrier 2, 2185 MHz	3 -21.7 -19 Pass
16-QAM Modulation			
		AWS Carrier 2, 2185 MHz	1 -24.1 -19 Pass
		AWS Carrier 2, 2185 MHz	2 -23.2 -19 Pass
		AWS Carrier 2, 2185 MHz	3 -21.6 -19 Pass
64-QAM Modulation			
		AWS Carrier 2, 2185 MHz	1 -23.2 -19 Pass
		AWS Carrier 2, 2185 MHz	2 -22.9 -19 Pass
		AWS Carrier 2, 2185 MHz	3 -21.4 -19 Pass
256-QAM Modulation			
		AWS Carrier 2, 2185 MHz	1 -22.8 -19 Pass
		AWS Carrier 2, 2185 MHz	2 -22.5 -19 Pass
		AWS Carrier 2, 2185 MHz	3 -21.4 -19 Pass

BAND EDGE COMPLIANCE

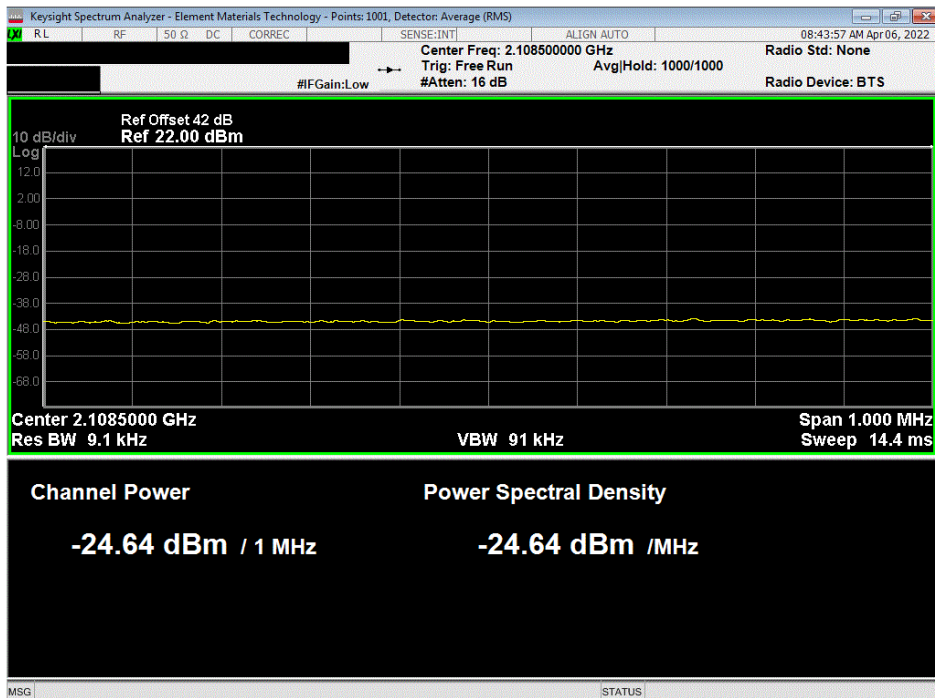


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.27	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.6	-19	Pass			

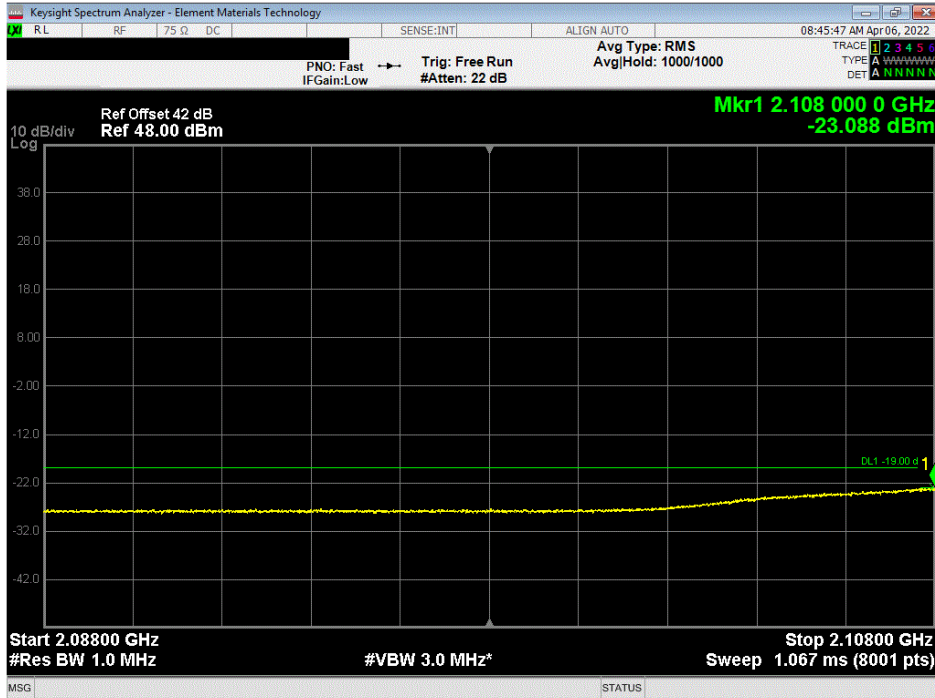


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.09	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.27	-19	Pass			

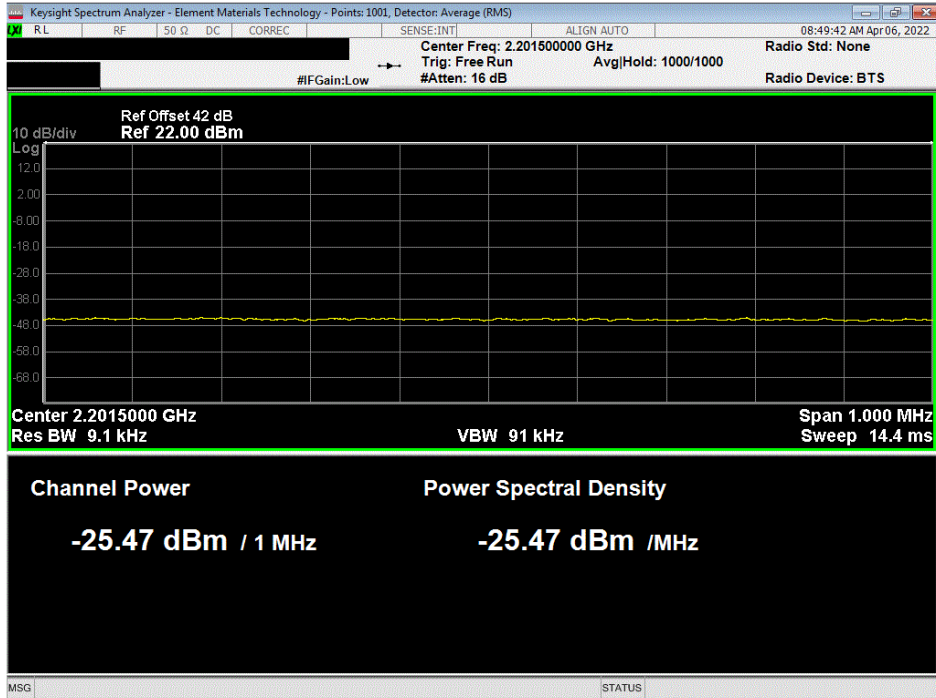


BAND EDGE COMPLIANCE

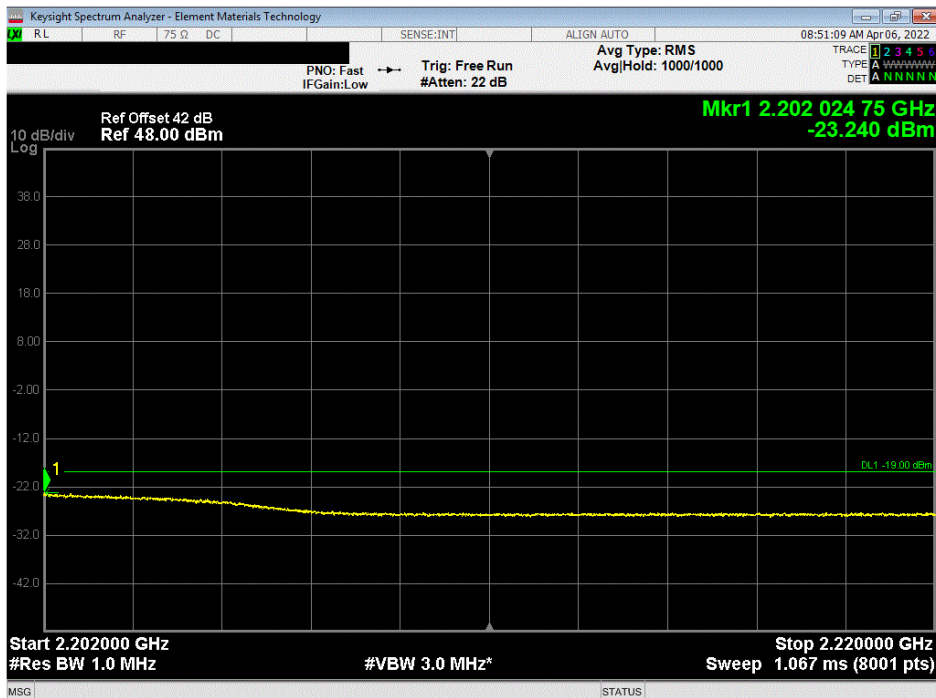


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), QPSK Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.24	-19	Pass			

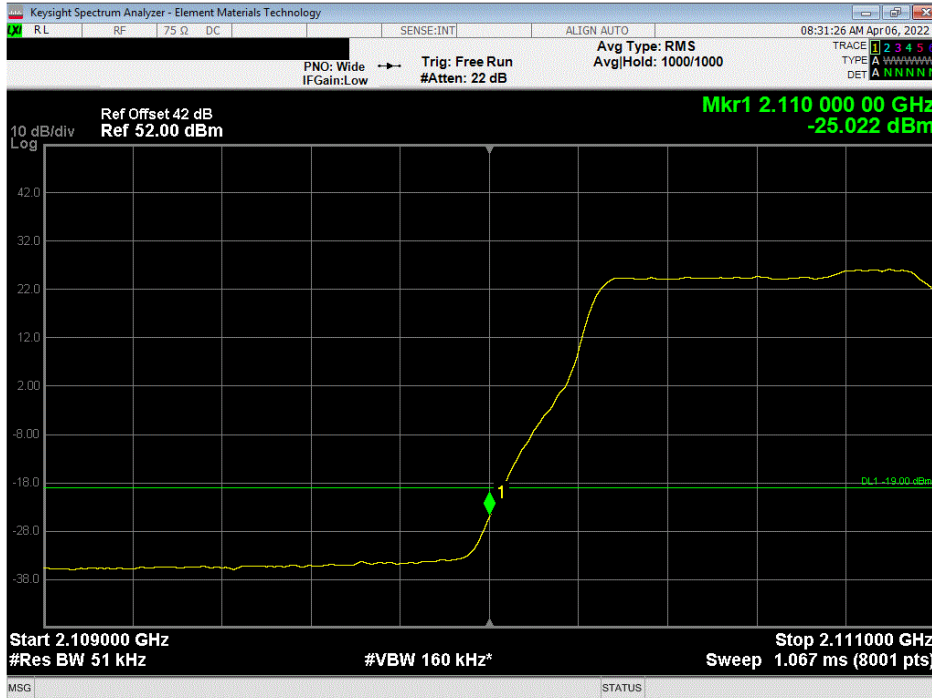


BAND EDGE COMPLIANCE

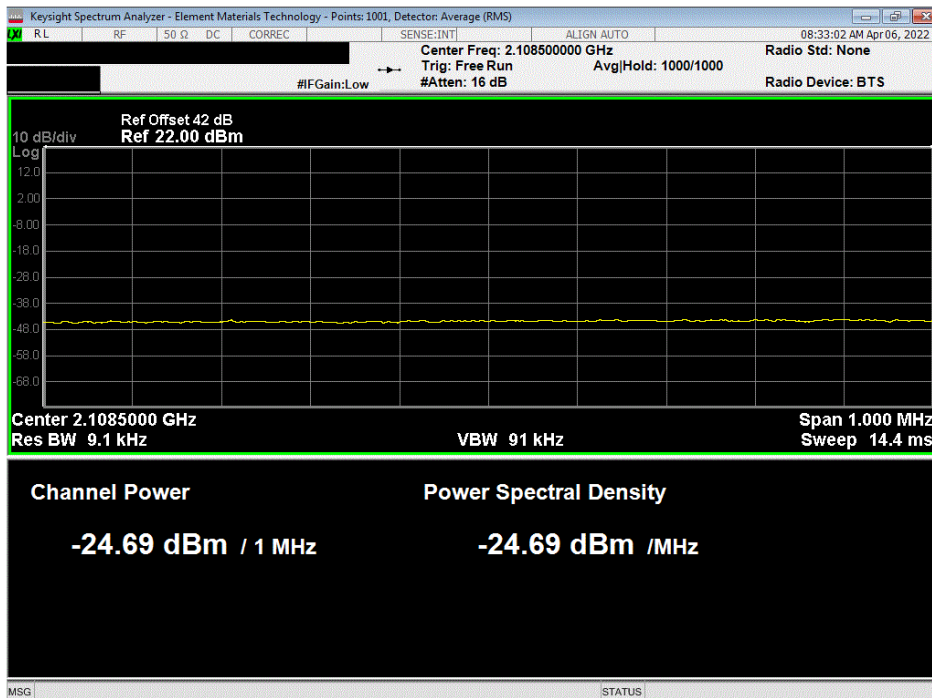


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.02	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.7	-19	Pass			

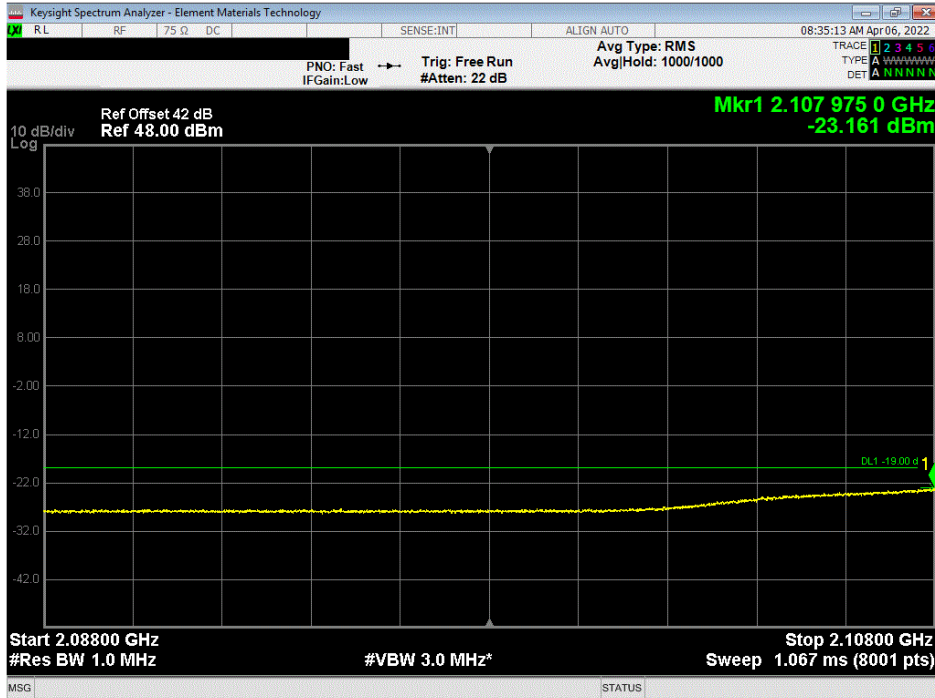


BAND EDGE COMPLIANCE

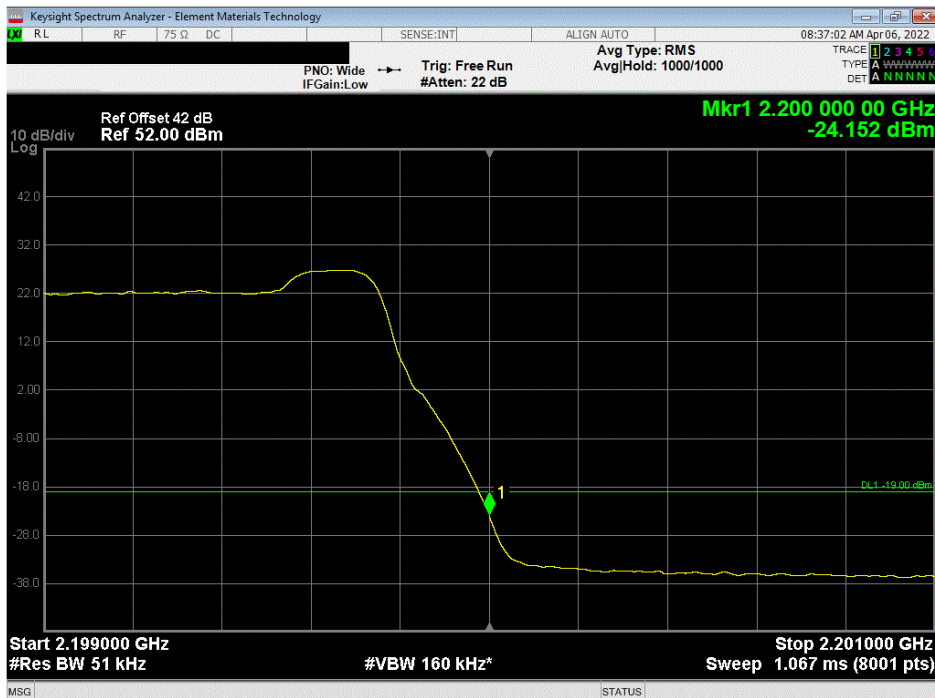


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.16	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.15	-19	Pass			

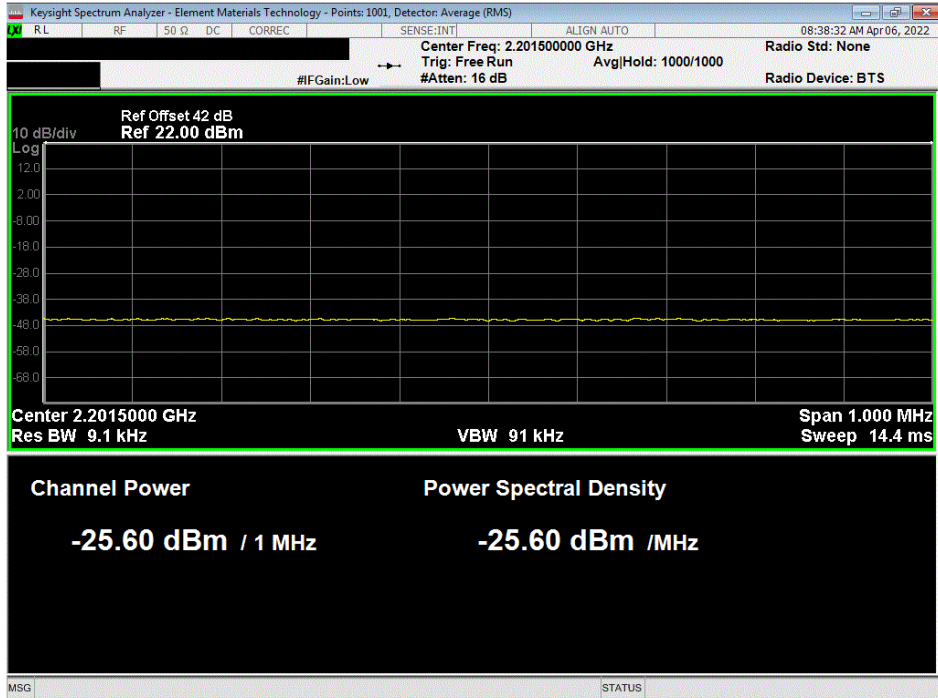


BAND EDGE COMPLIANCE

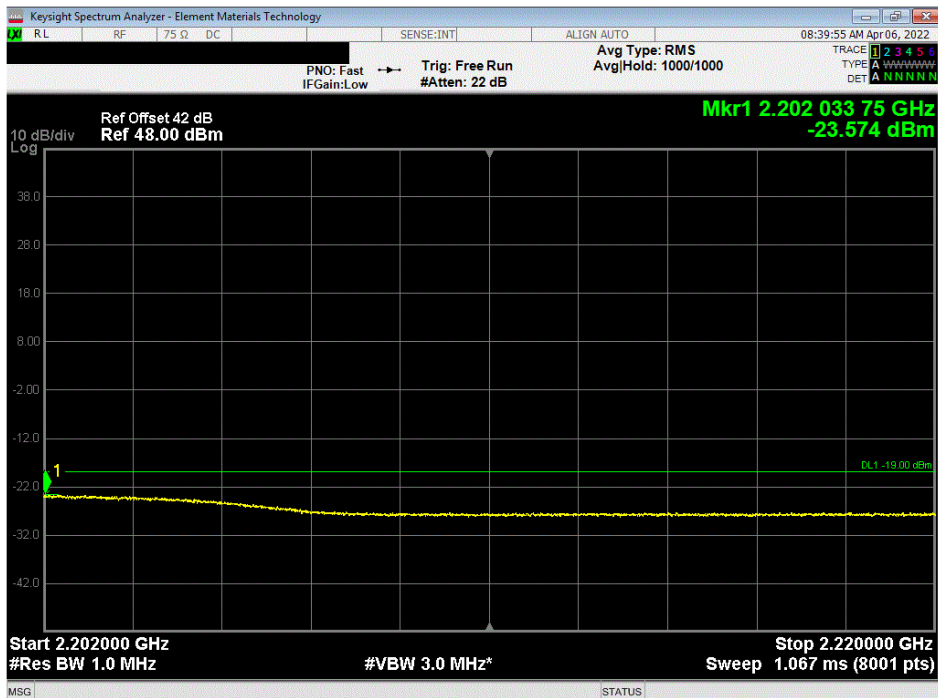


TbTx 2021.12.14.1 XMit 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.6	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.57	-19	Pass			

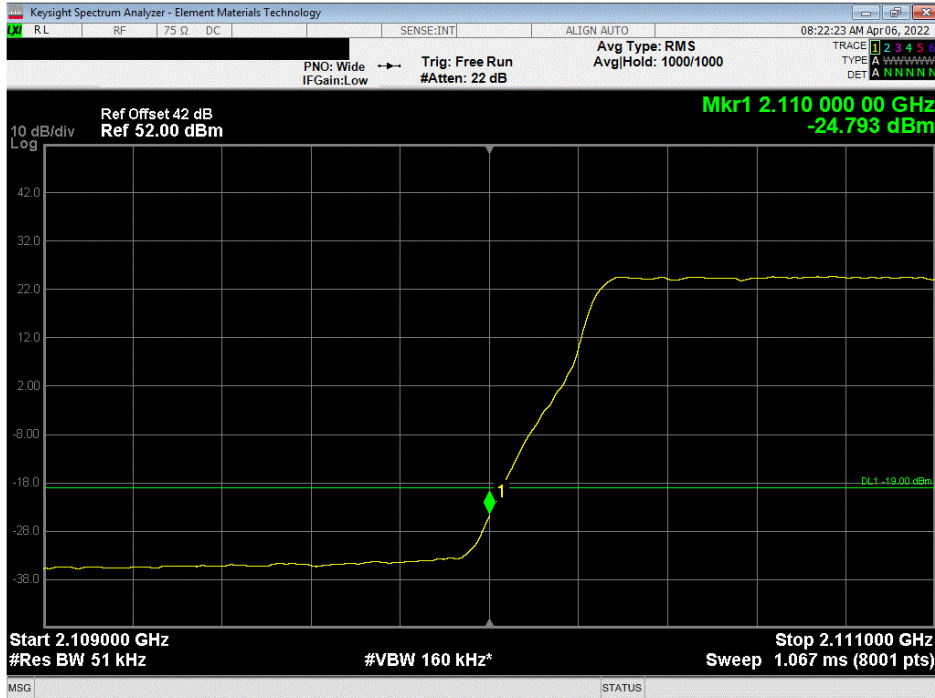


BAND EDGE COMPLIANCE

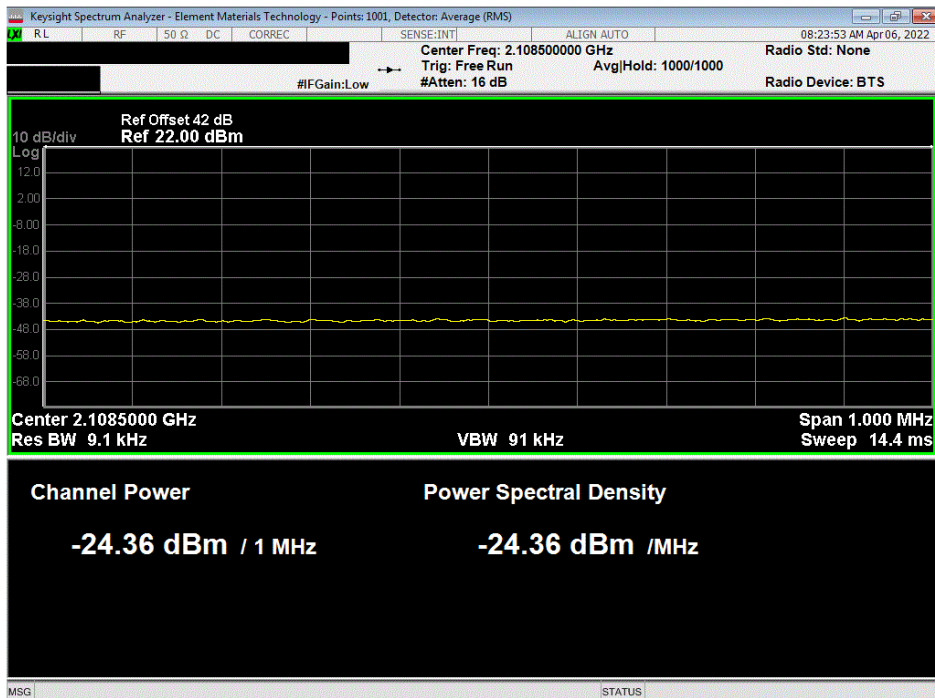


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.79	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.4	-19	Pass			

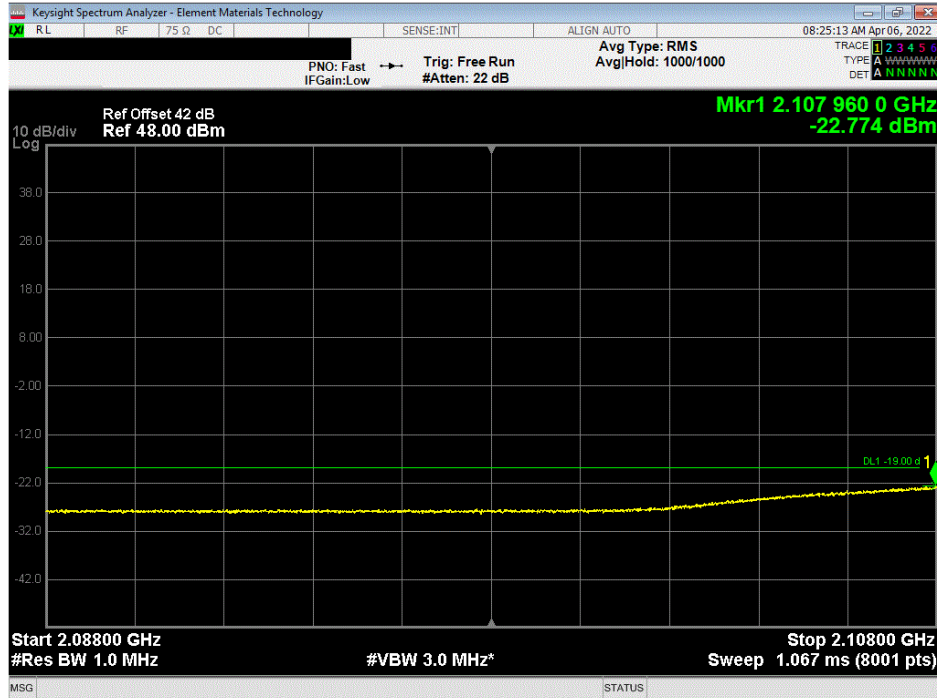


BAND EDGE COMPLIANCE

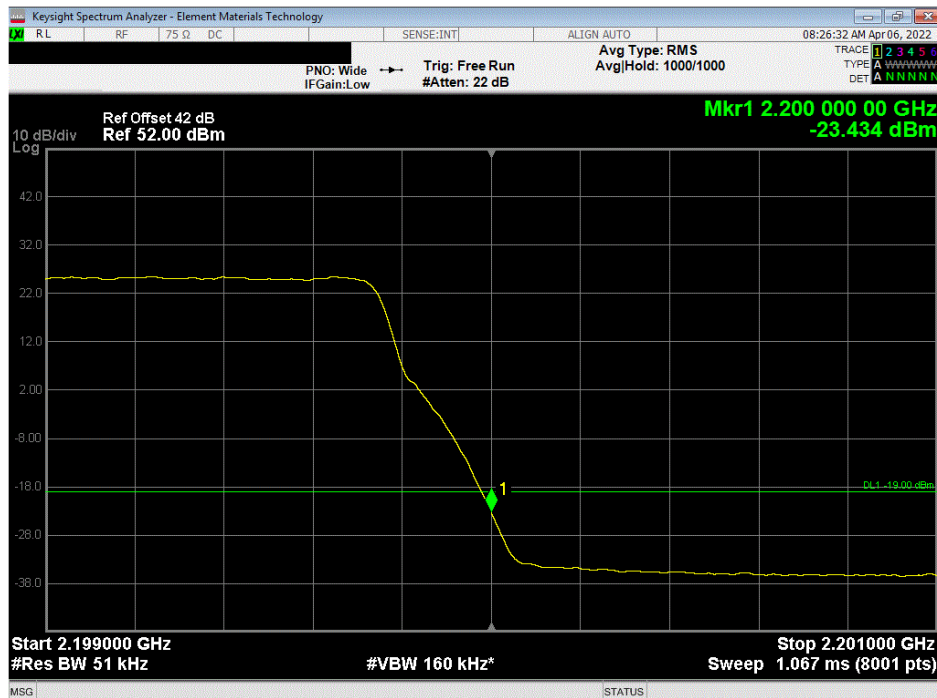


TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-22.77	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.43	-19	Pass			

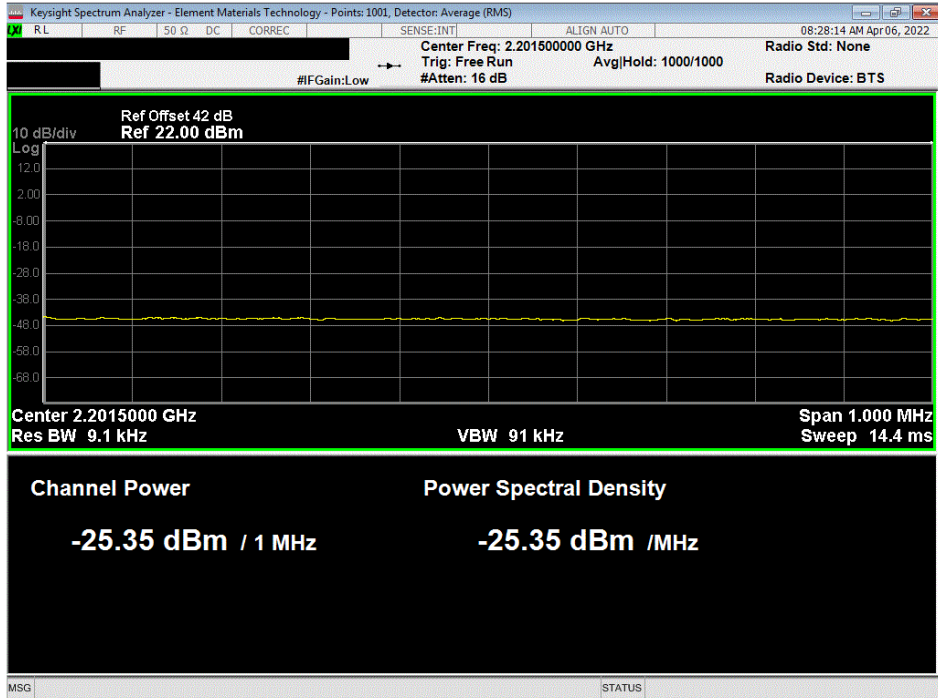


BAND EDGE COMPLIANCE

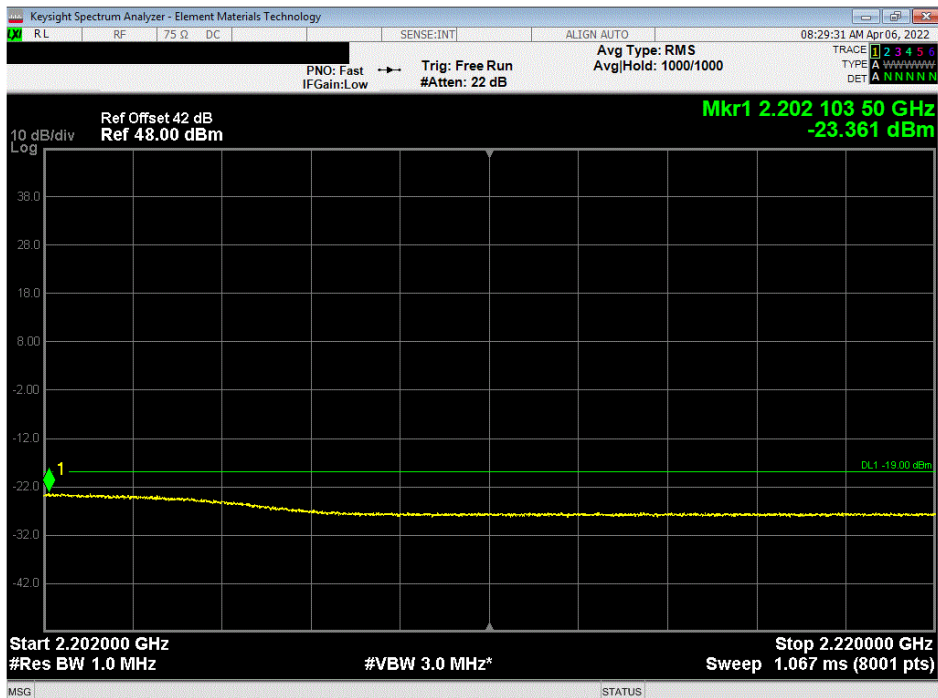


TbTx 2021.12.14.1 XMit 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.36	-19	Pass			

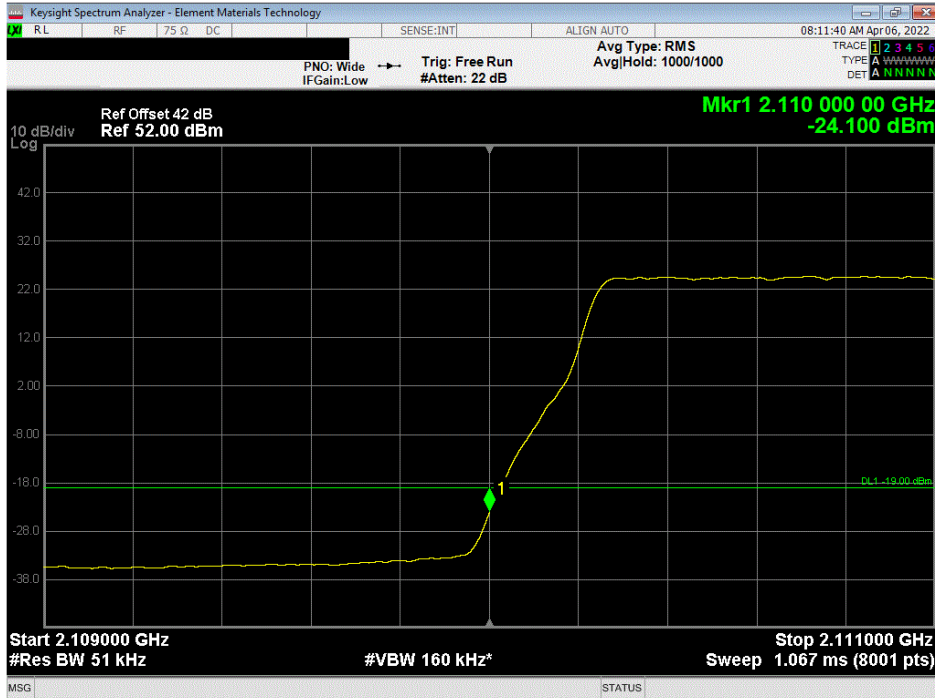


BAND EDGE COMPLIANCE

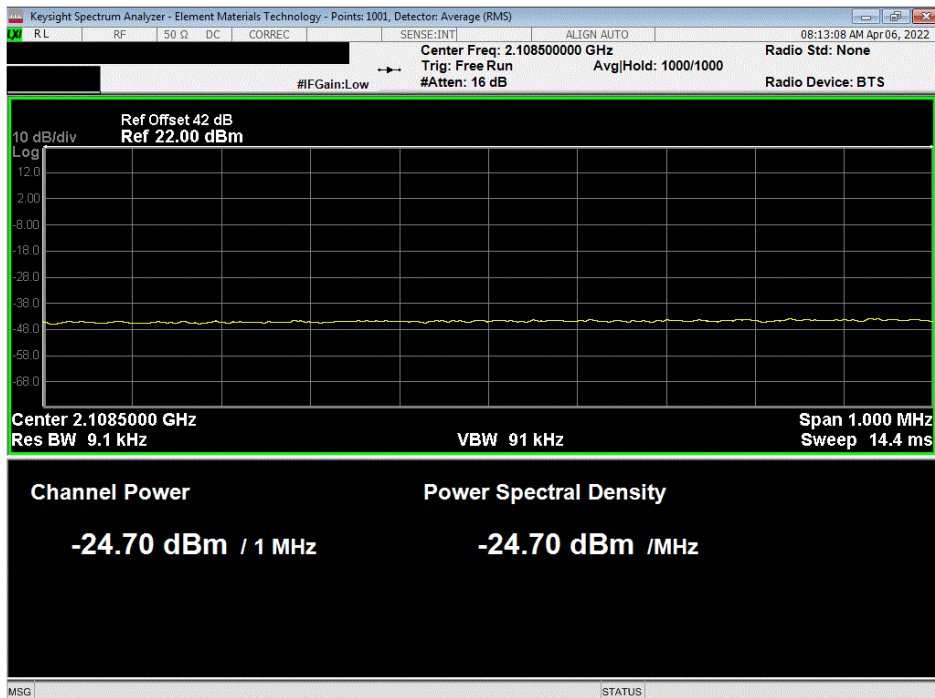


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.1	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-24.7	-19	Pass			

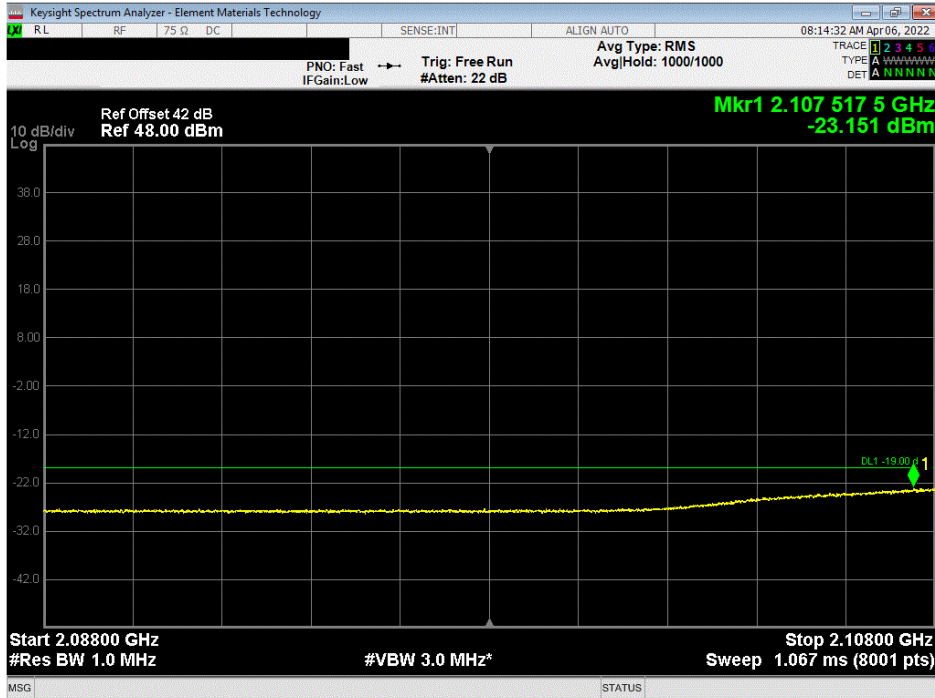


BAND EDGE COMPLIANCE

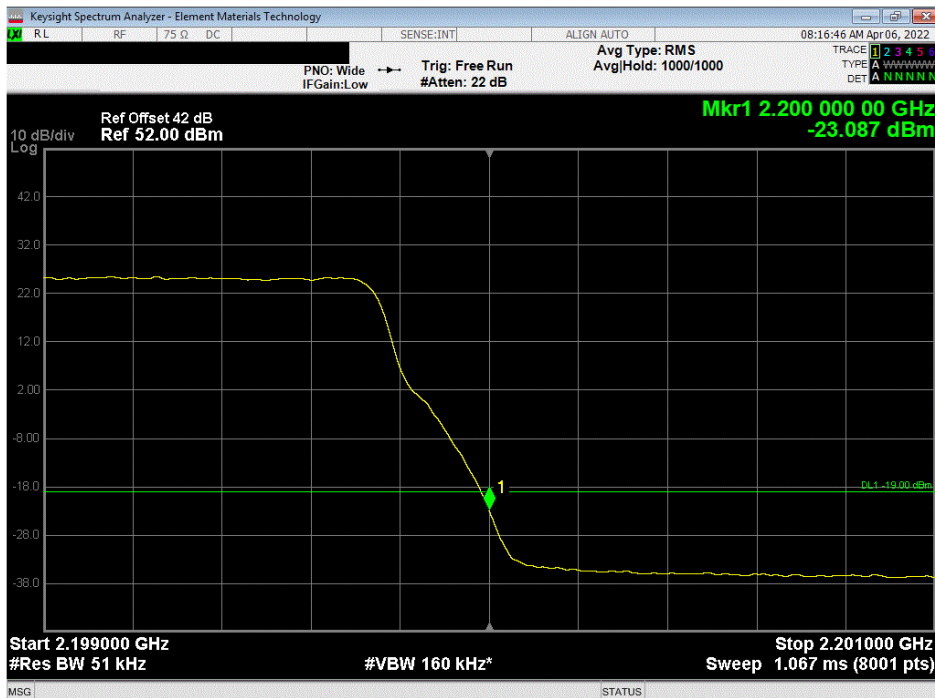


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2112.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.15	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.09	-19	Pass			

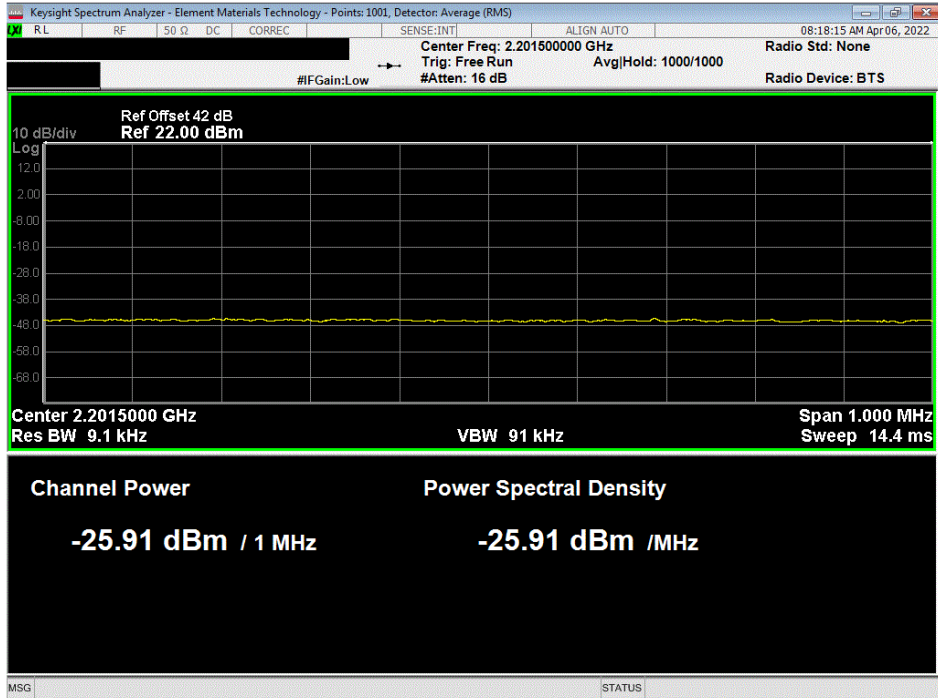


BAND EDGE COMPLIANCE

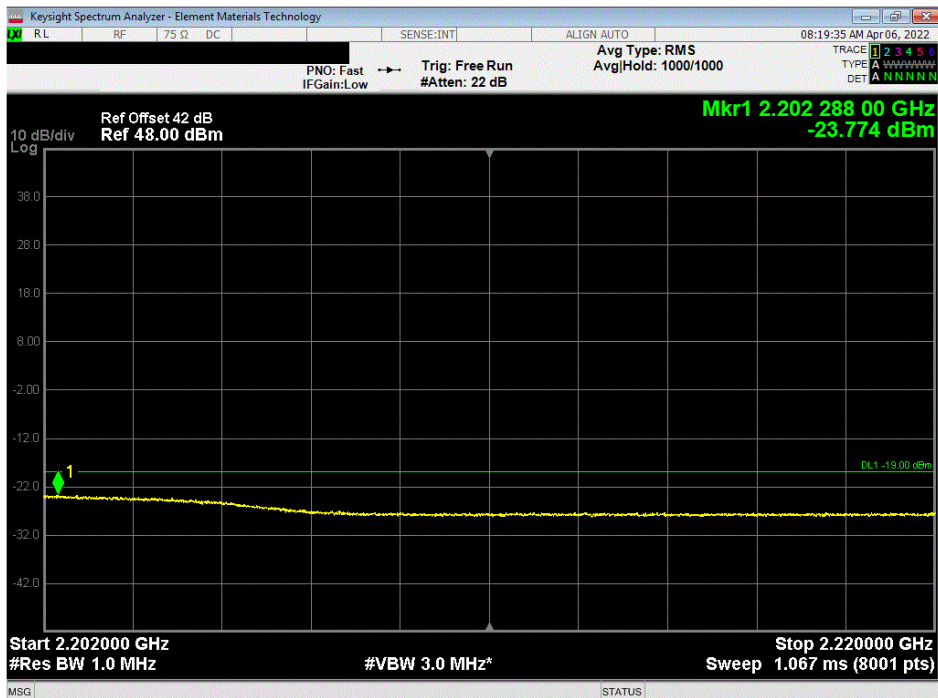


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.9	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 1: AWS Band NR5 (3 Carriers), PCS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Carrier 3, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.77	-19	Pass			

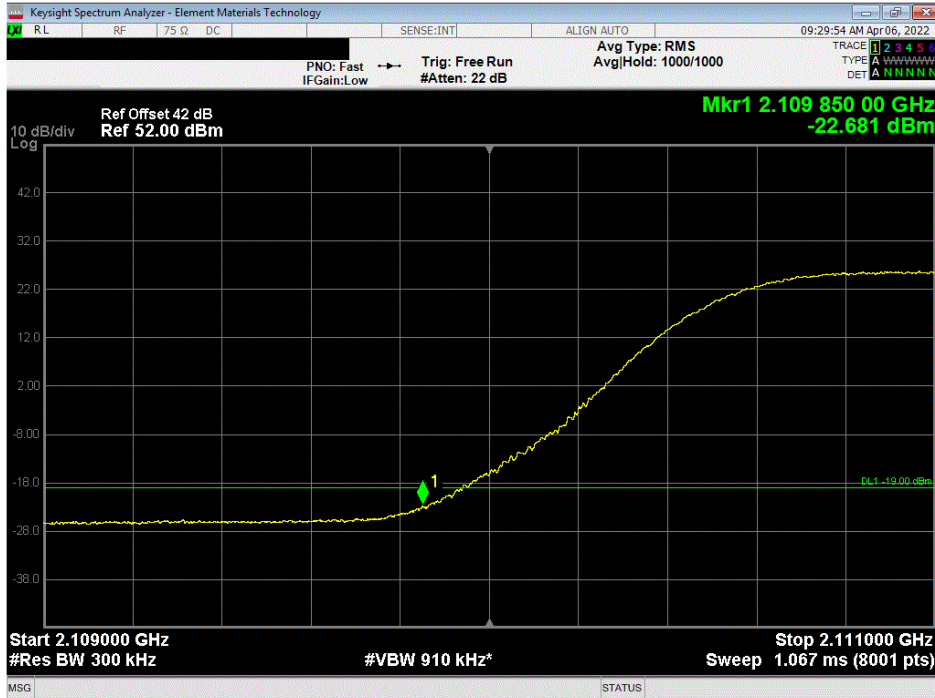


BAND EDGE COMPLIANCE

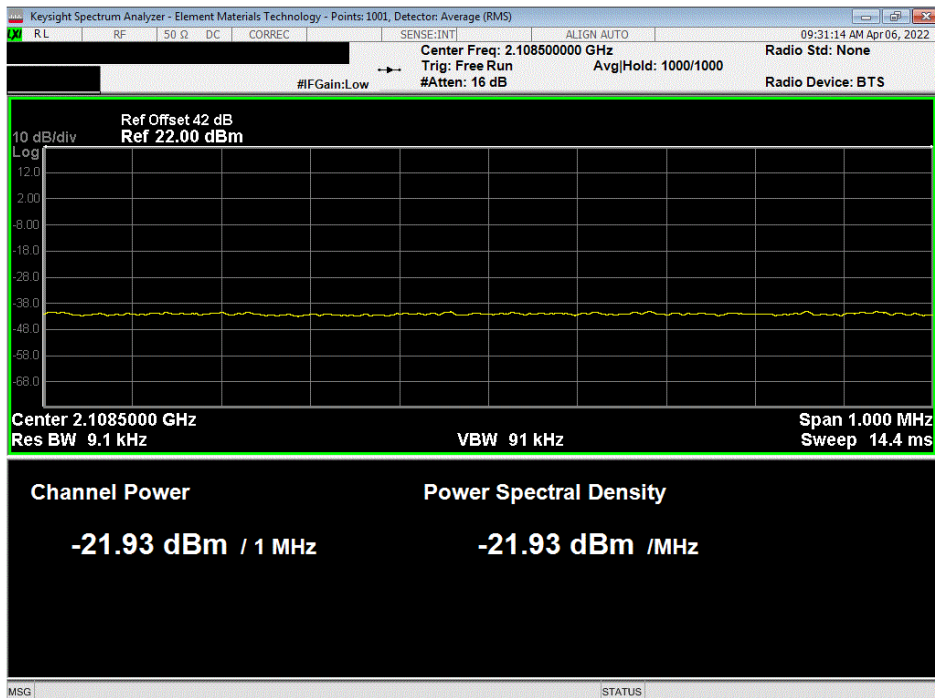


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.68	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.9	-19	Pass			

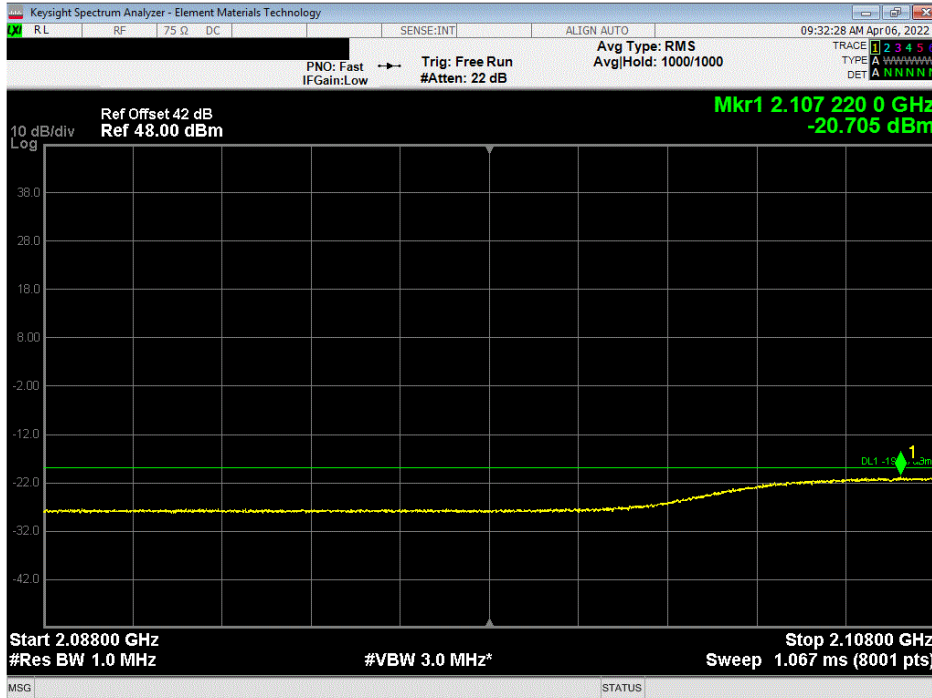


BAND EDGE COMPLIANCE

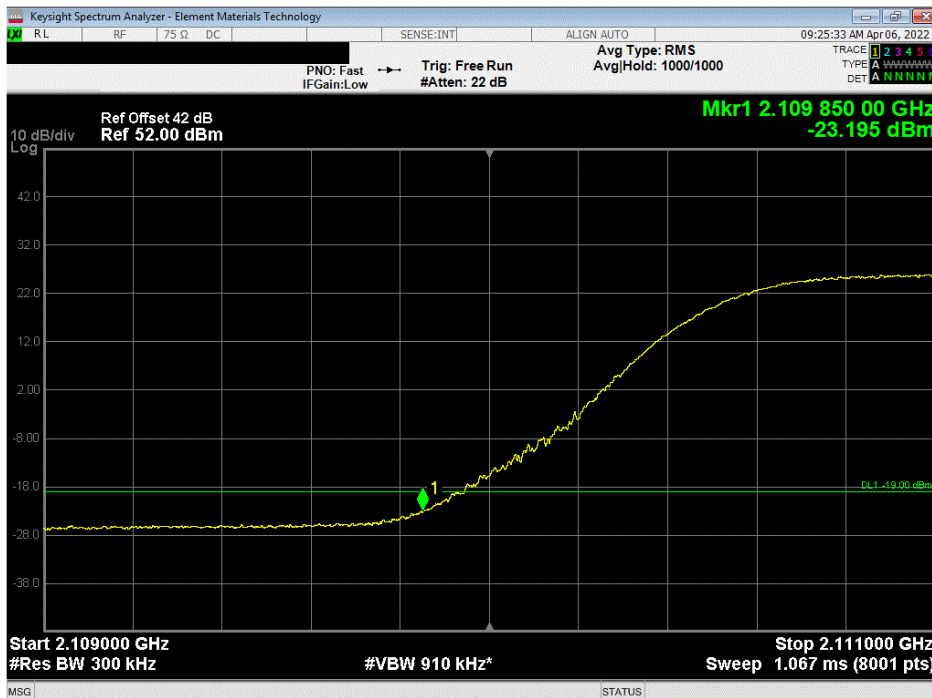


TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-20.71	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.2	-19	Pass			

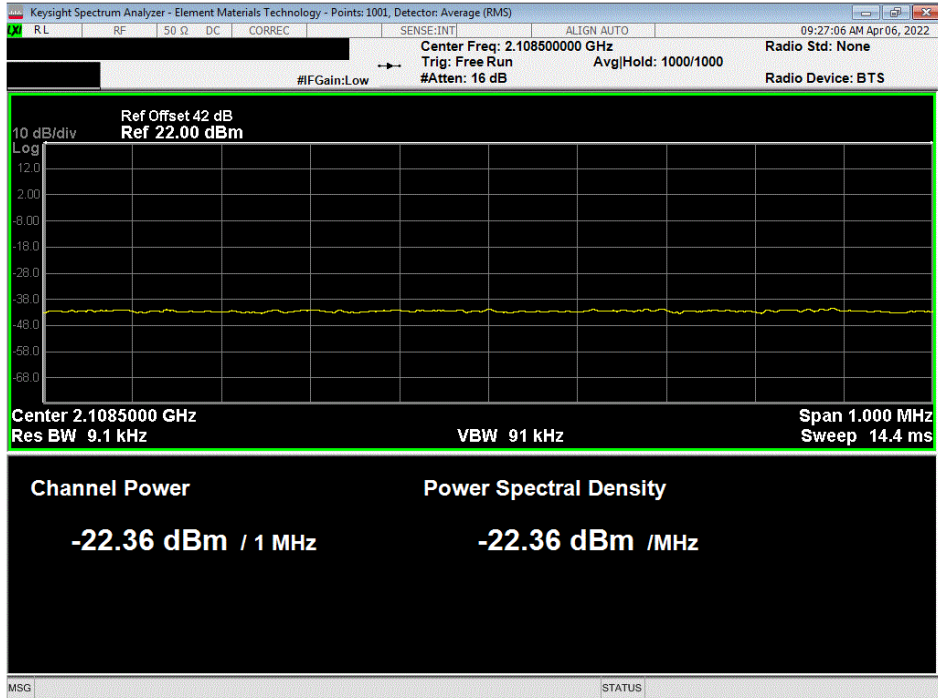


BAND EDGE COMPLIANCE

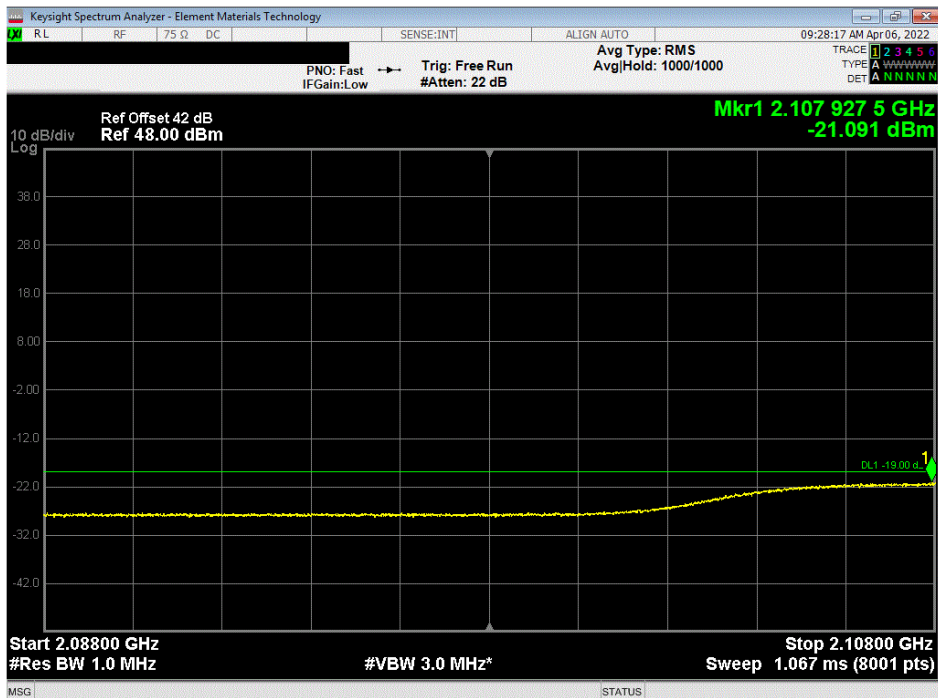


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.09	-19	Pass			

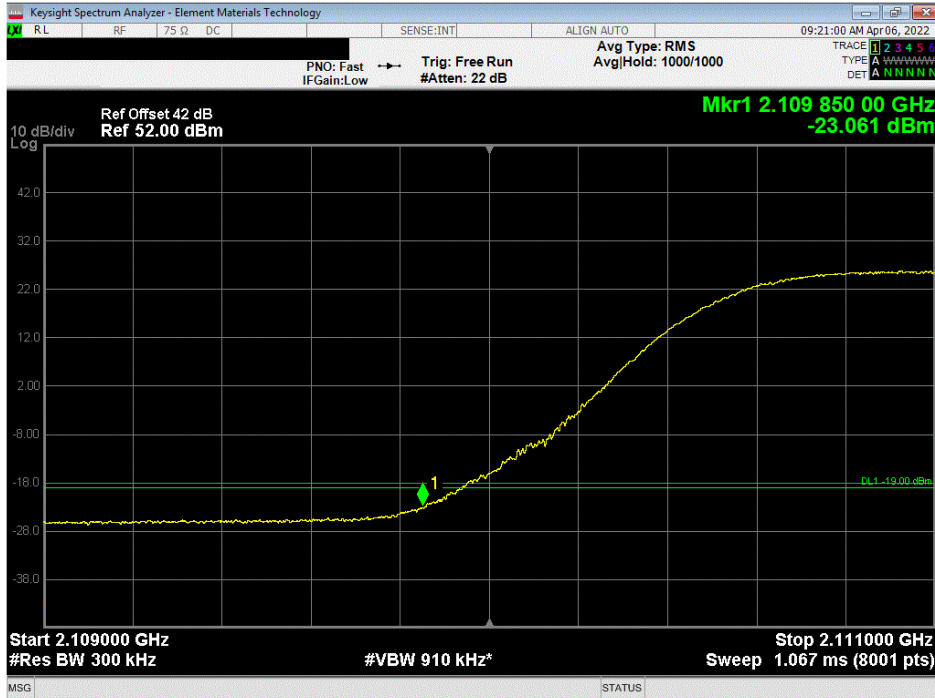


BAND EDGE COMPLIANCE

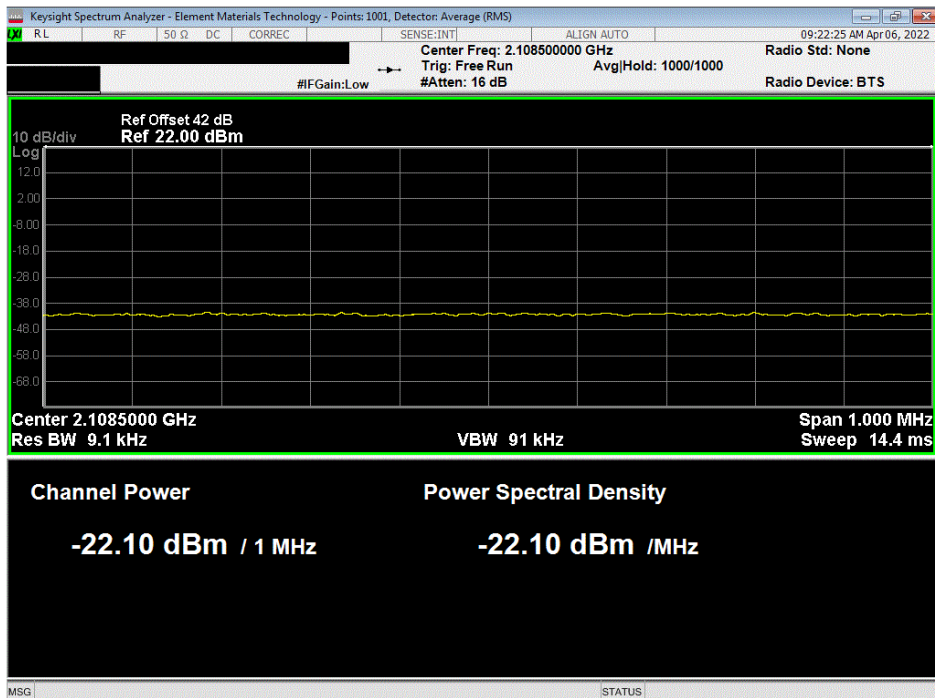


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.06	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.1	-19	Pass			

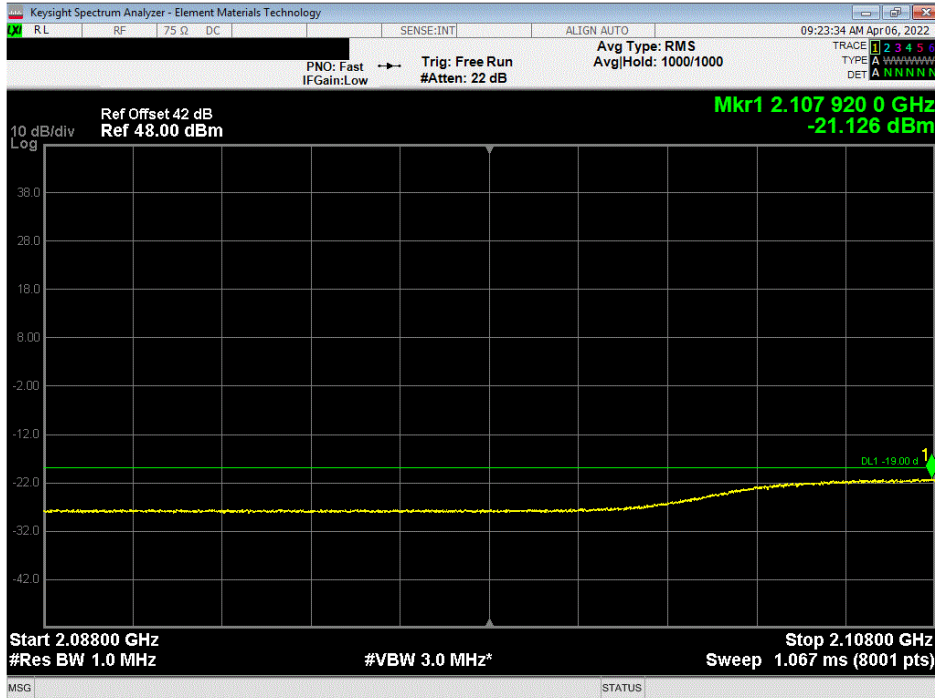


BAND EDGE COMPLIANCE

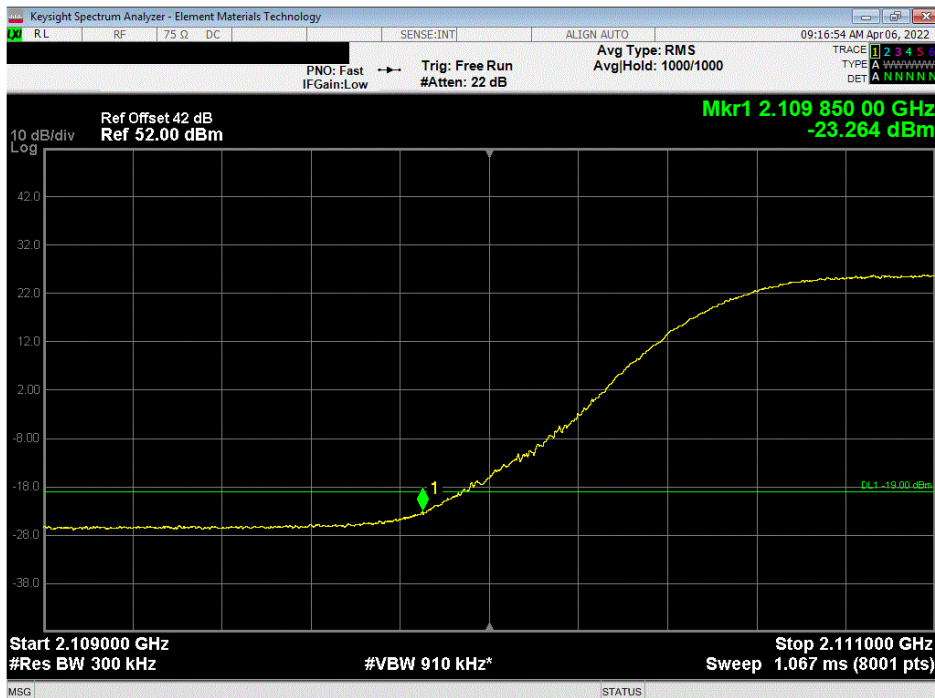


TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.13	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.26	-19	Pass			

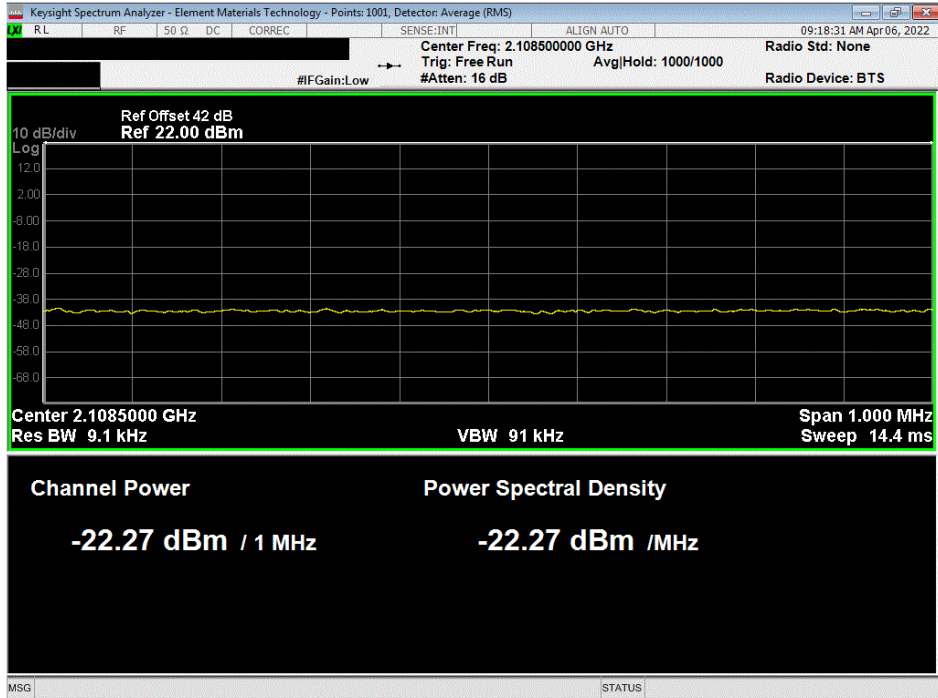


BAND EDGE COMPLIANCE

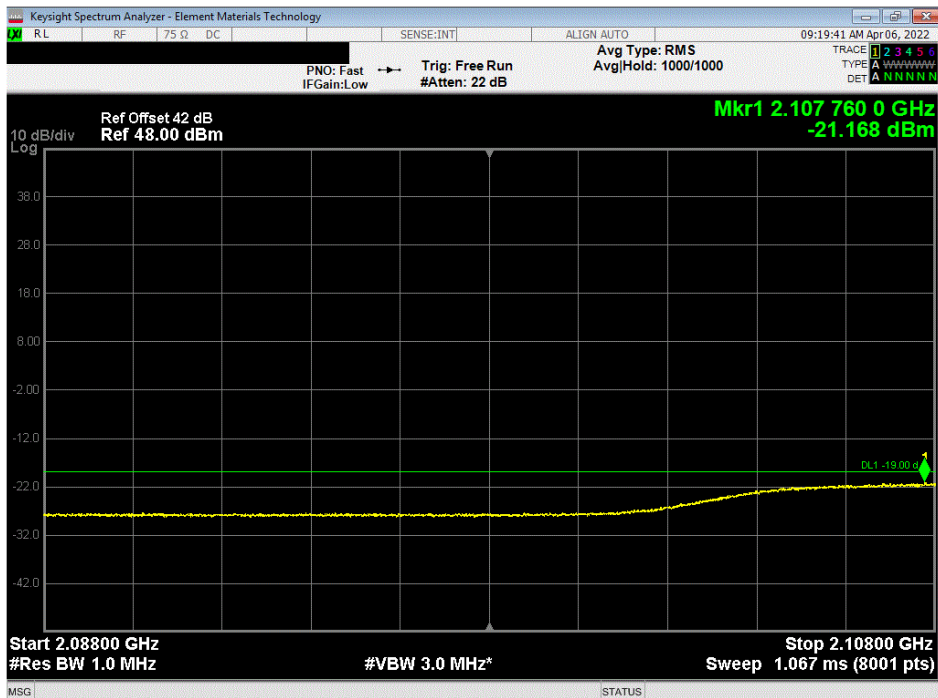


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.3	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 2: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 1, 2125 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.17	-19	Pass			

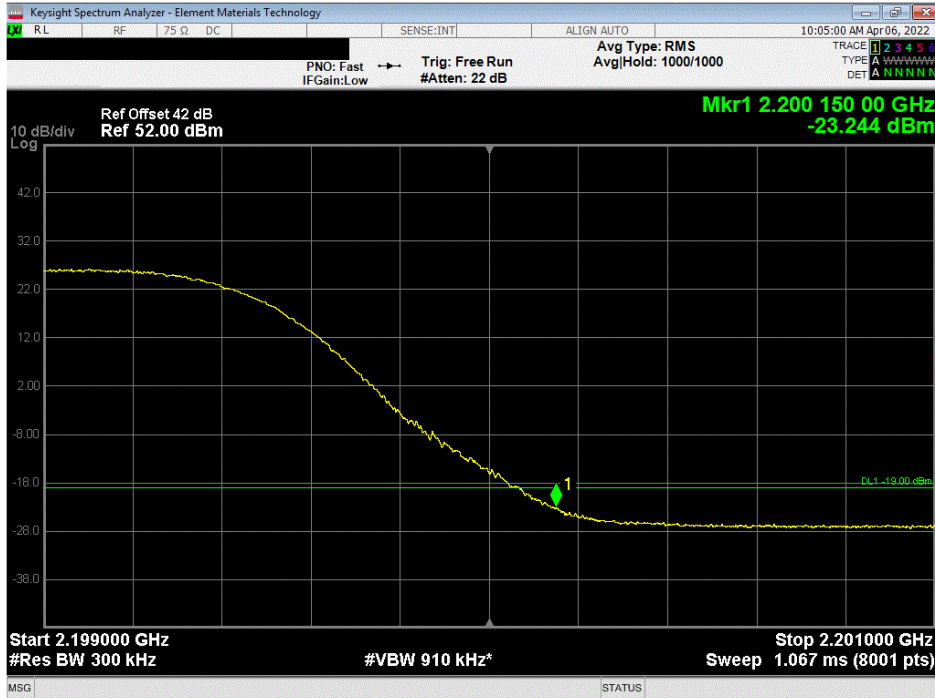


BAND EDGE COMPLIANCE

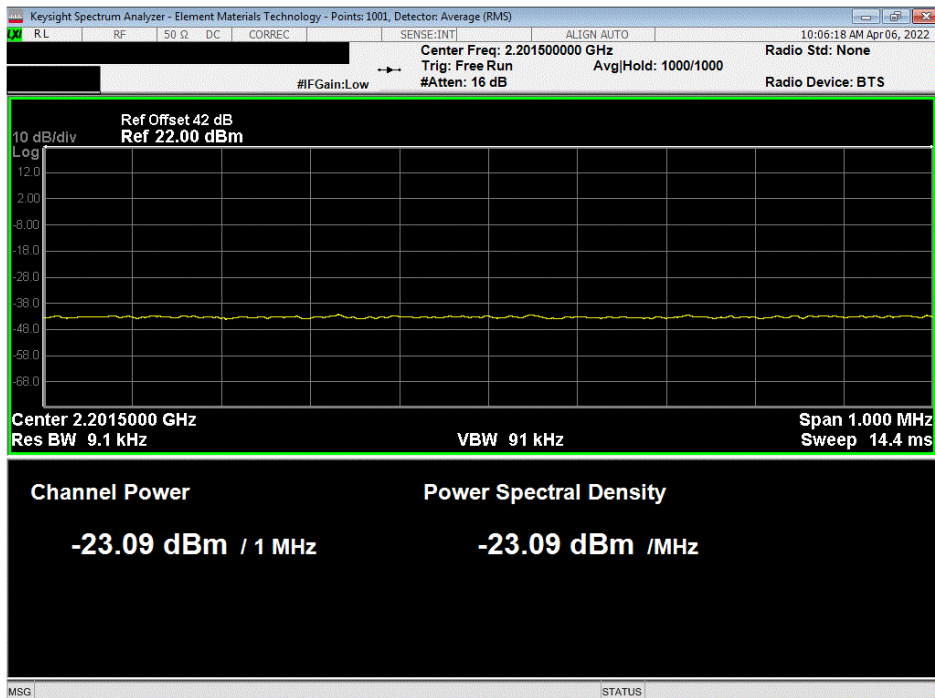


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-23.24	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.1	-19	Pass			

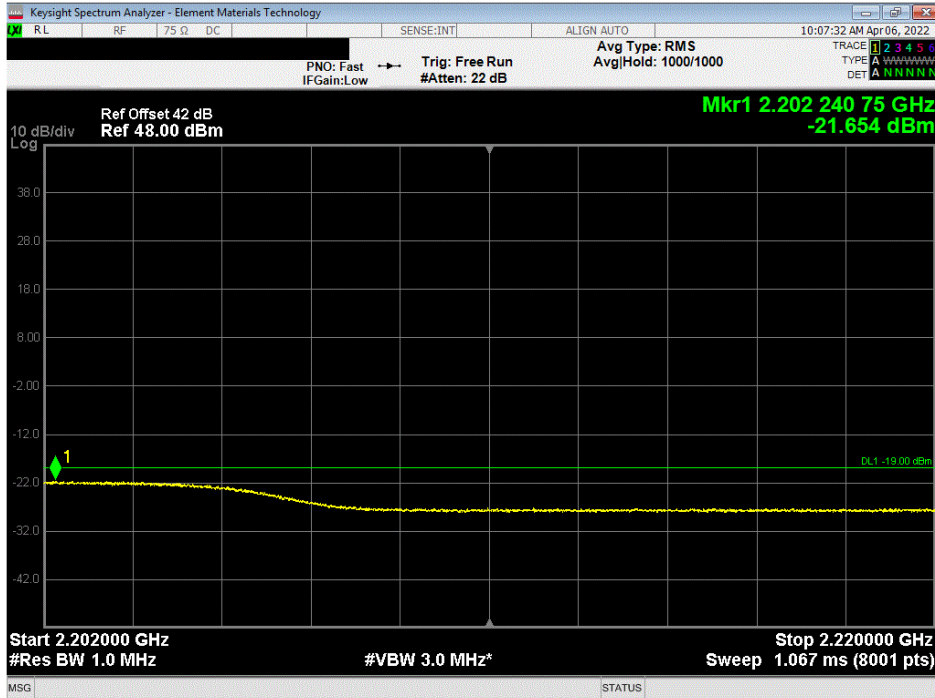


BAND EDGE COMPLIANCE

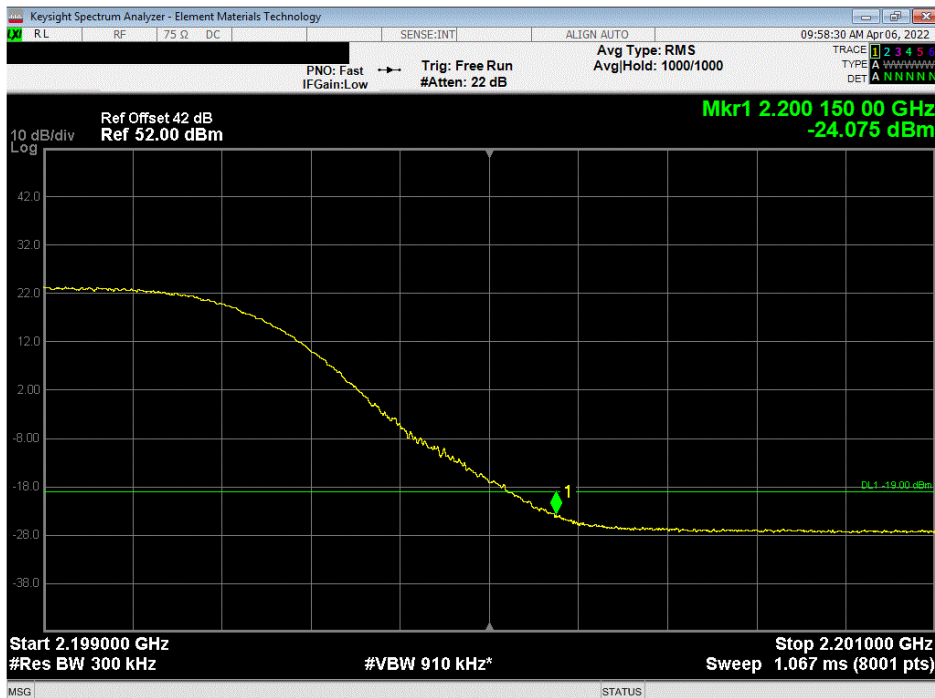


TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), QPSK Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.65	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-24.08	-19	Pass			

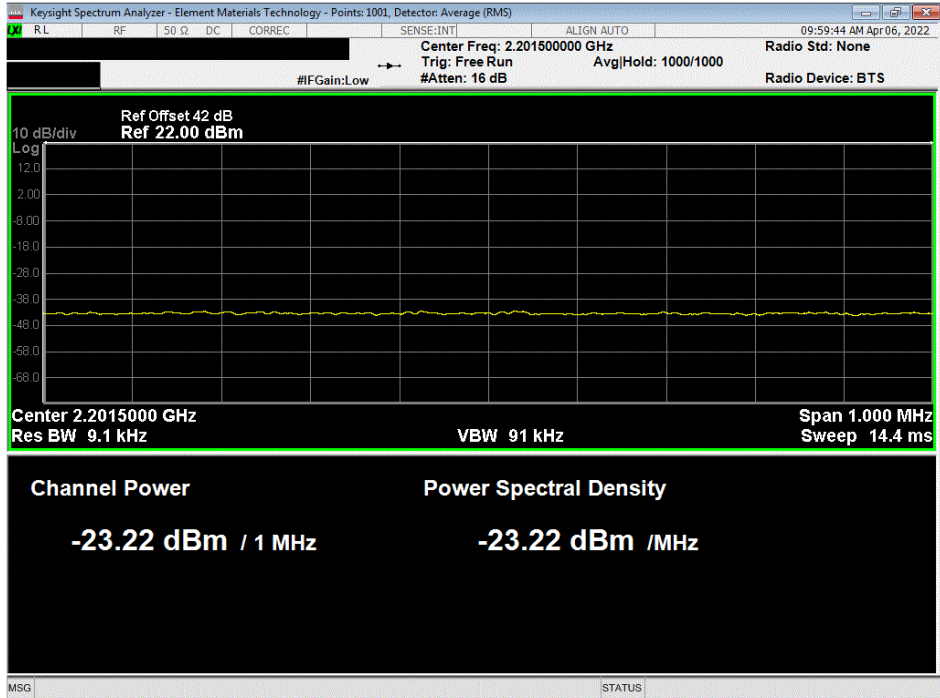


BAND EDGE COMPLIANCE

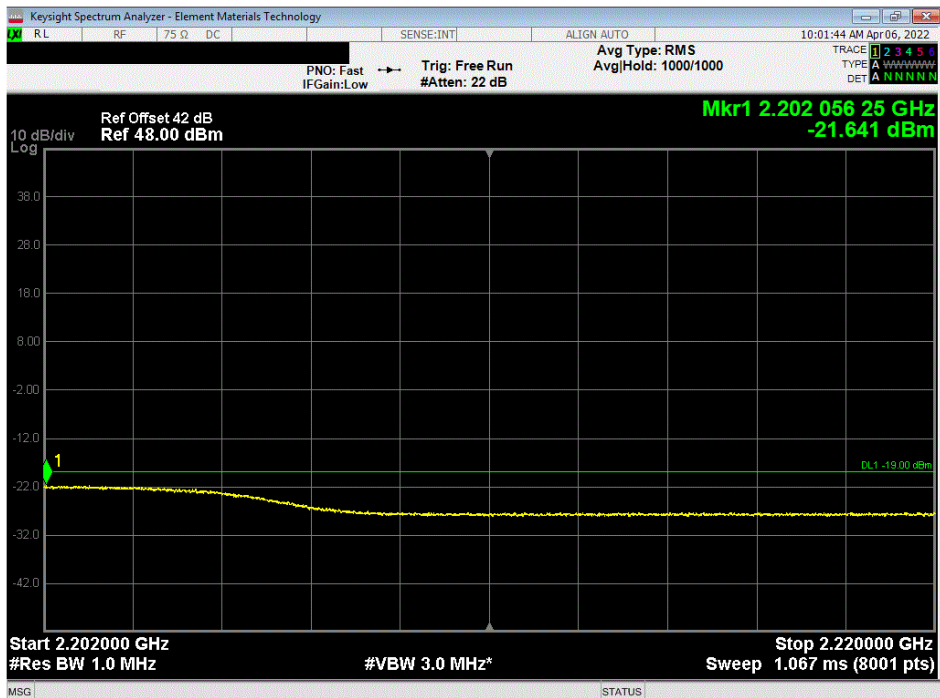


TbTx 2021.12.14.1 XMit 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-23.2	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 16-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.64	-19	Pass			

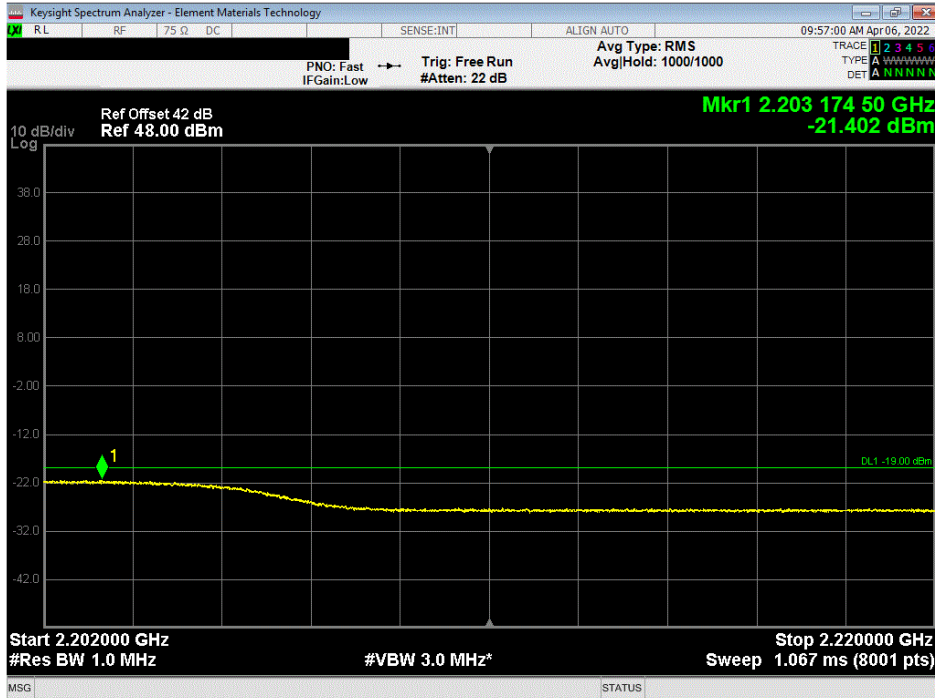


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMi 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 64-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.4	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-22.84	-19	Pass			

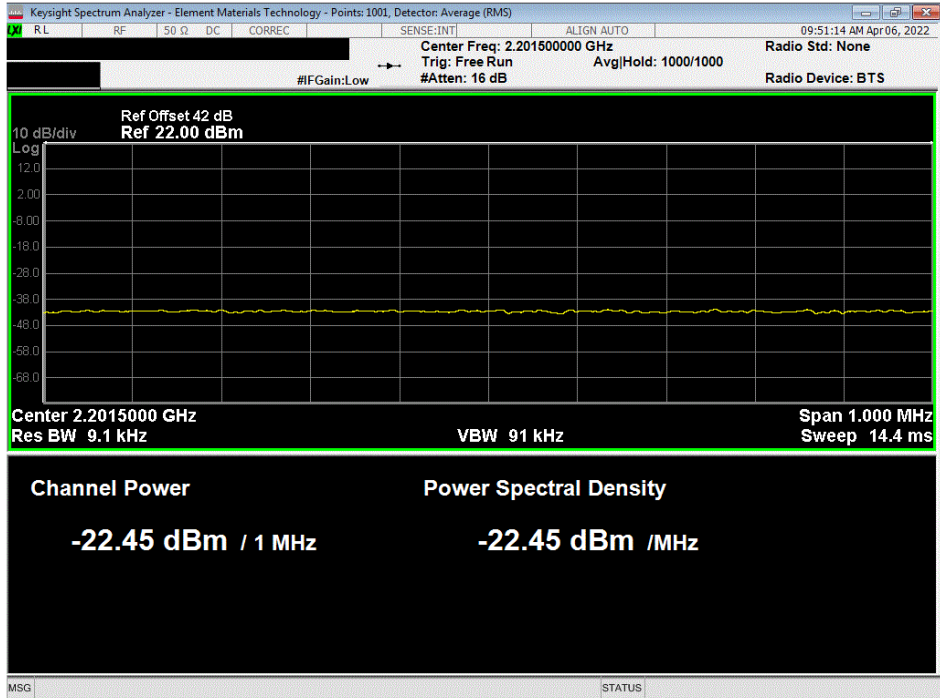


BAND EDGE COMPLIANCE

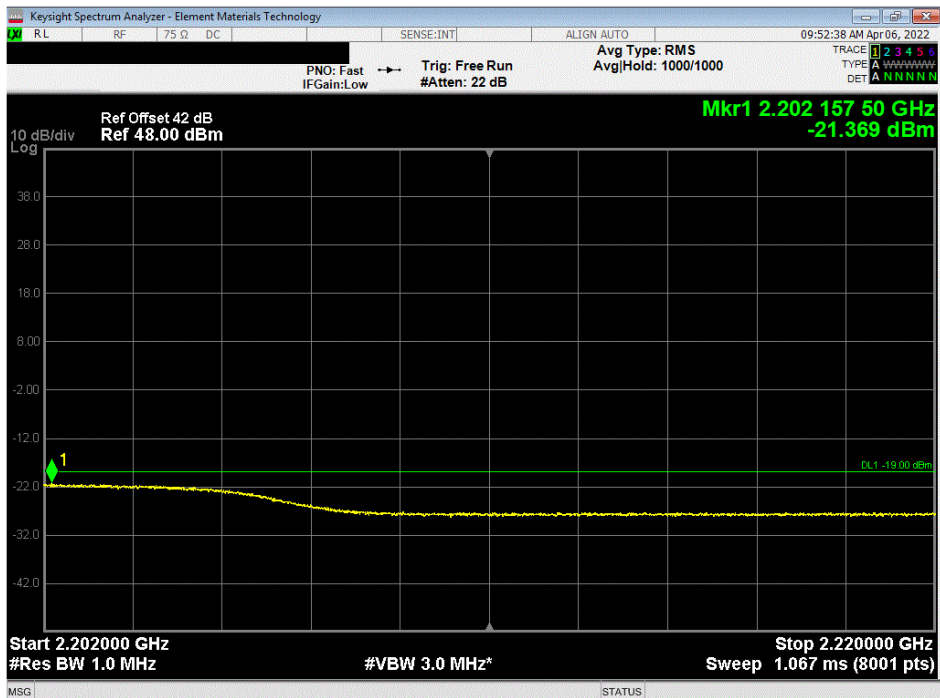


TbTx 2021.12.14.1 XMI 2022.02.07.0

AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.5	-19	Pass			



AWS Multicarrier Multiband, Port 1, Test Case 3: AWS Band NR30 (2 Carriers), PCS Band NR30 (Single Carrier), 256-QAM Modulation, AWS Carrier 2, 2185 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.37	-19	Pass			



BAND EDGE COMPLIANCE



TotTx 2021.12.14.1 XMMi 2022.02.07.0

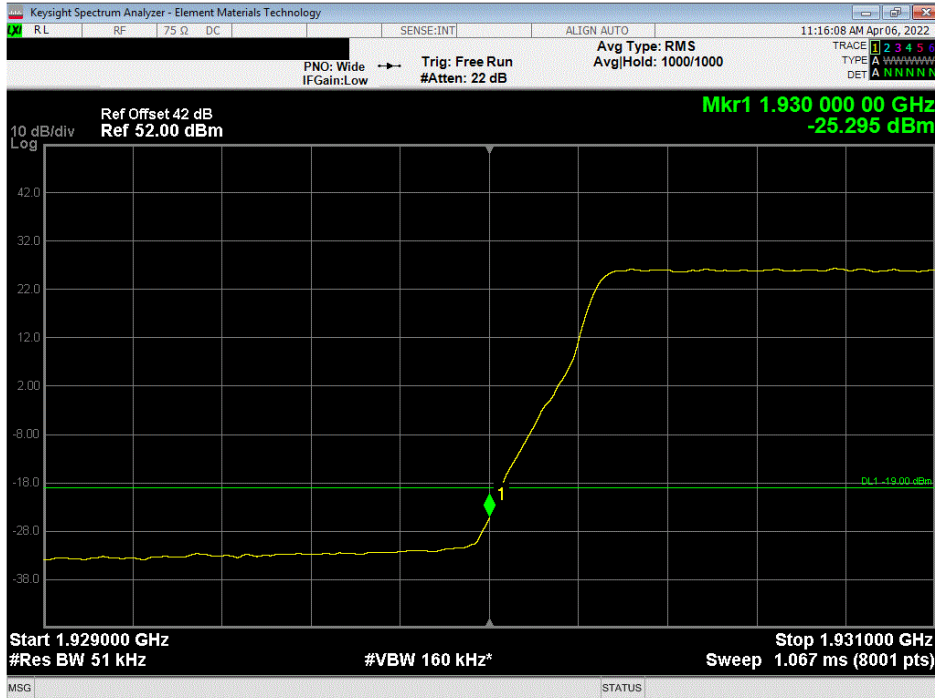
EUT: AHFII Remote Radio Head		Work Order: NOKI0038	
Serial Number: YK214000035		Date: 6-Apr-22	
Customer: Nokia of America Corporation		Temperature: 22.6 °C	
Attendees: Mitchell Hill		Humidity: 23.7% RH	
Project: None		Barometric Pres.: 1026 mbar	
Tested by: Mark Baytan		Power: 54 VDC	
TEST SPECIFICATIONS		Job Site: TX09	
FCC 24E:2022		Test Method	
RSS-133 Issue 6:2013+A1:2018		ANSI C63.26:2015	
FCC 27:2022		RSS-133 Issue 6:2013+A1:2018	
RSS-139 Issue 3:2015		ANSI C63.26:2015	
RSS-170 Issue 3:2015		RSS-139 Issue 3:2015	
RSS-170 Issue 3:2015		RSS-170 Issue 3:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carriers are operated at maximum power (~40W/PCS carrier and 40W/AWS carrier) with at total port power of 120 watts (40W for AWS band carrier + 80W for PCS band carriers). Some measurement marker values were offset by RBW/2 from the band edge frequency as allowed by ANSI C63.26 clause 5.7.2 for some test cases. Reference "Output Power" report section for all carrier frequencies. This testing is being performed per KDB 971168 D03v01 guidance.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature	
		Frequency Range	Max Value (dBm) Limit < (dBm) Result
Multicarrier Multiband			
Port 1			
Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier)			
QPSK Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.3 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-22.1 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-21.6 -19 Pass
	AWS Single Carrier, 2197.5 MHz	1	-29.7 -19 Pass
	AWS Single Carrier, 2197.5 MHz	2	-25.3 -19 Pass
	AWS Single Carrier, 2197.5 MHz	3	-23.2 -19 Pass
16-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-26.6 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-22.8 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-21.9 -19 Pass
	AWS Single Carrier, 2197.5 MHz	1	-29.5 -19 Pass
	AWS Single Carrier, 2197.5 MHz	2	-25.7 -19 Pass
	AWS Single Carrier, 2197.5 MHz	3	-23.3 -19 Pass
64-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.4 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-21.8 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-21.6 -19 Pass
	AWS Single Carrier, 2197.5 MHz	1	-28.8 -19 Pass
	AWS Single Carrier, 2197.5 MHz	2	-25.2 -19 Pass
	AWS Single Carrier, 2197.5 MHz	3	-23.3 -19 Pass
256-QAM Modulation			
	PCS Carrier 1, 1932.5 MHz	1	-25.9 -19 Pass
	PCS Carrier 1, 1932.5 MHz	2	-21.6 -19 Pass
	PCS Carrier 1, 1932.5 MHz	3	-21.5 -19 Pass
	AWS Single Carrier, 2197.5 MHz	1	-29.1 -19 Pass
	AWS Single Carrier, 2197.5 MHz	2	-25.2 -19 Pass
	AWS Single Carrier, 2197.5 MHz	3	-23.3 -19 Pass

BAND EDGE COMPLIANCE

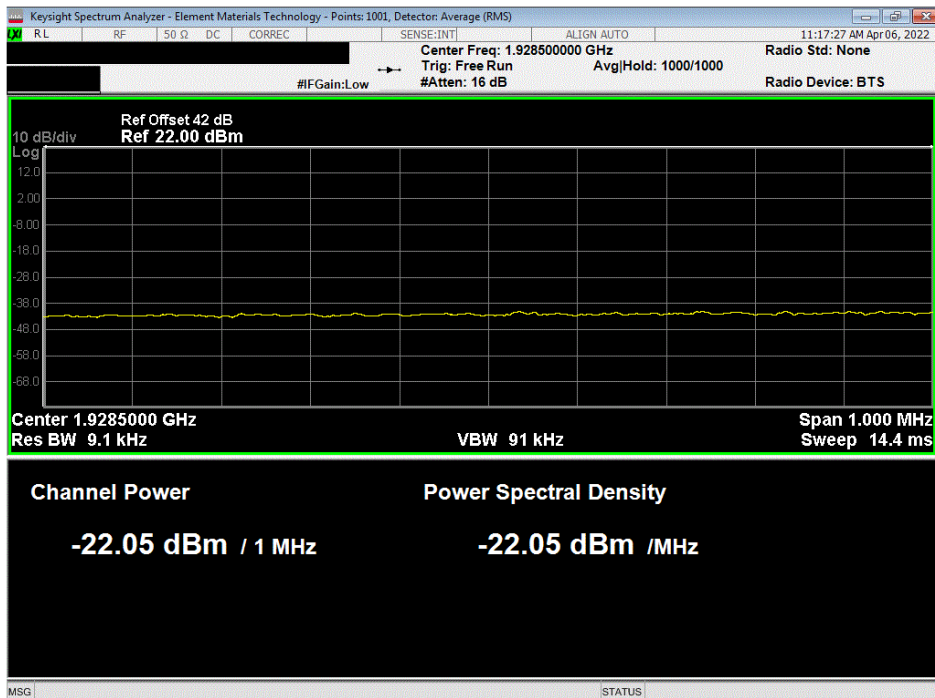


TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.3	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.1	-19	Pass			

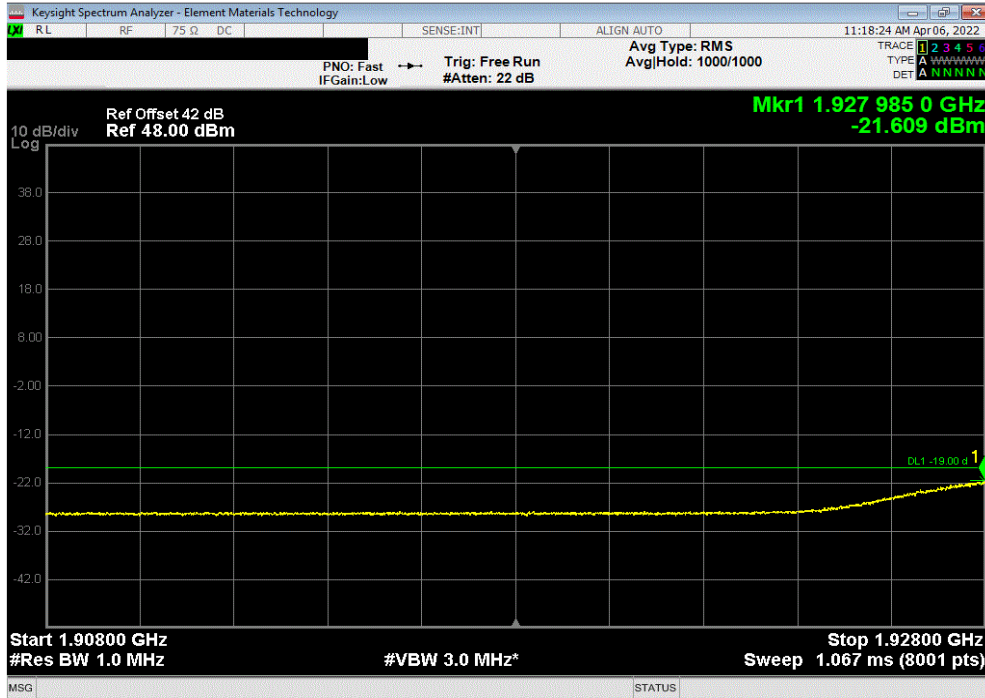


BAND EDGE COMPLIANCE

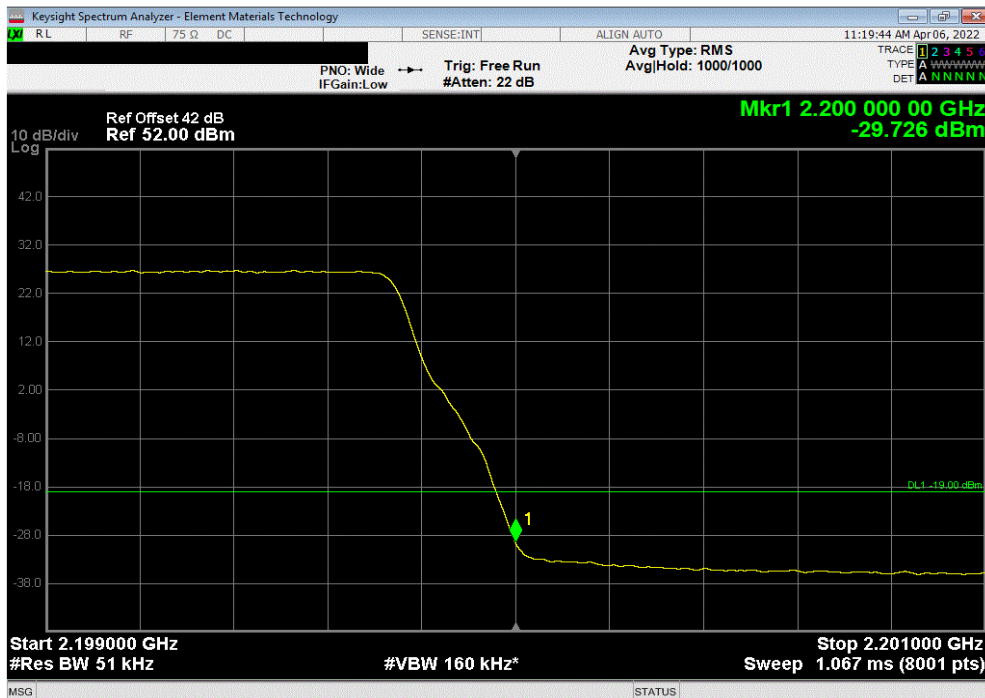


TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.61	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.73	-19	Pass			

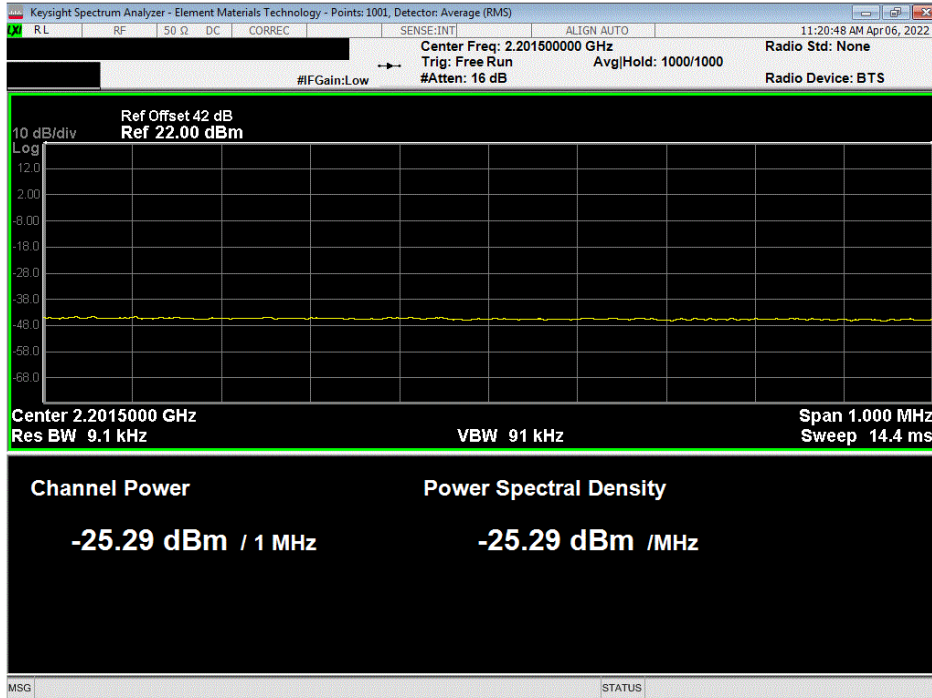


BAND EDGE COMPLIANCE

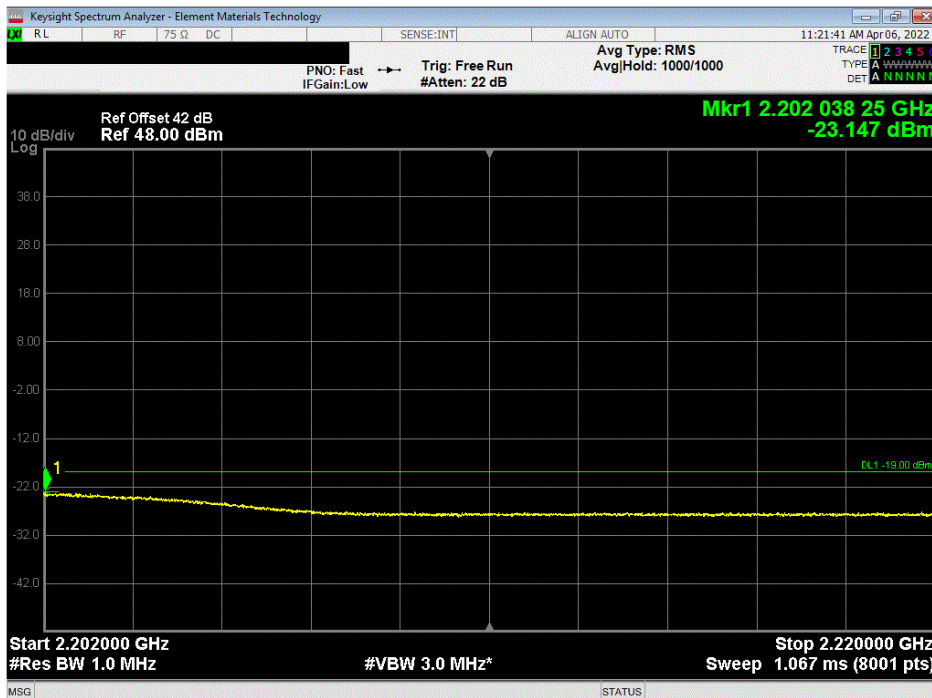


TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.3	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), QPSK Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.15	-19	Pass			

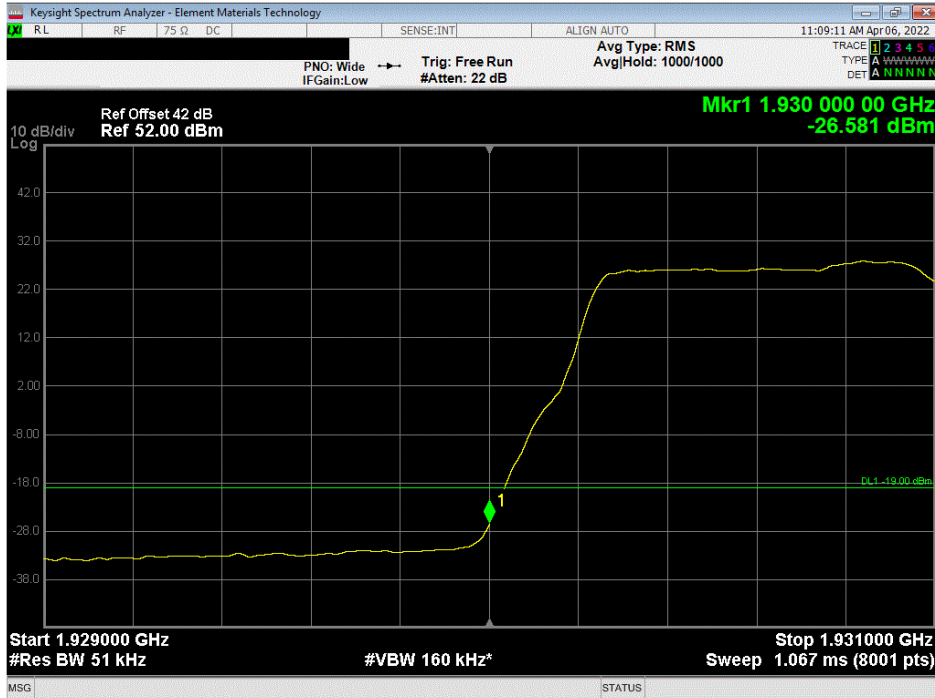


BAND EDGE COMPLIANCE

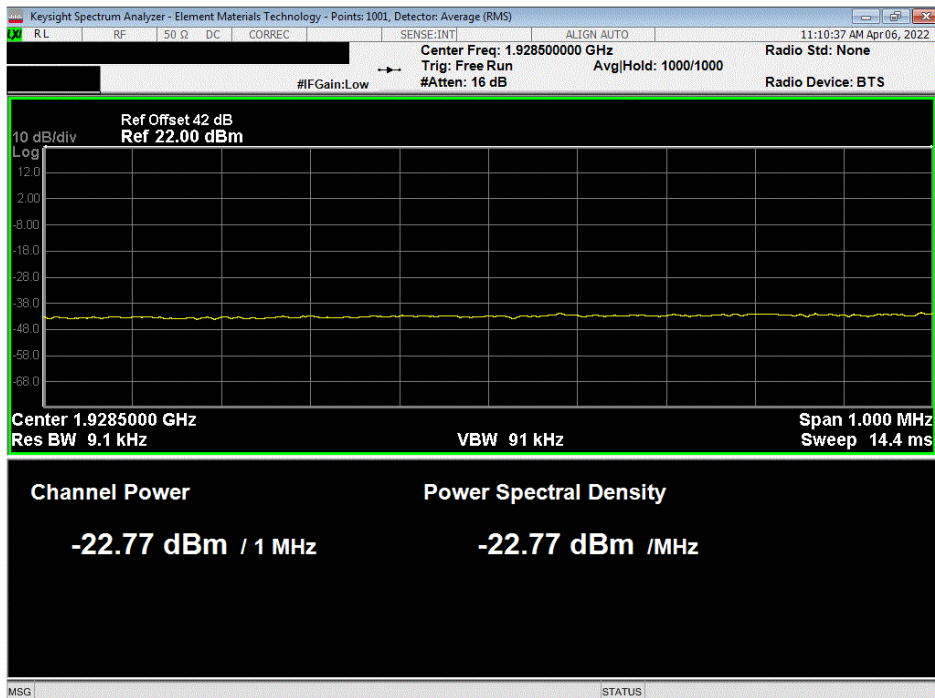


TbTx 2021.12.14.1 XMi 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-26.58	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-22.8	-19	Pass			

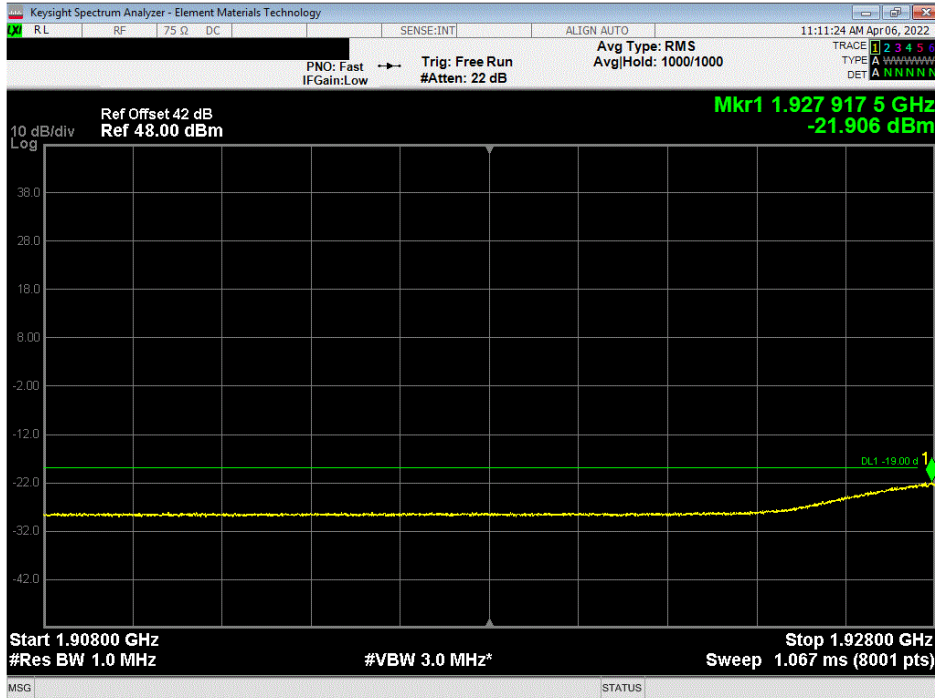


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.91	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.45	-19	Pass			

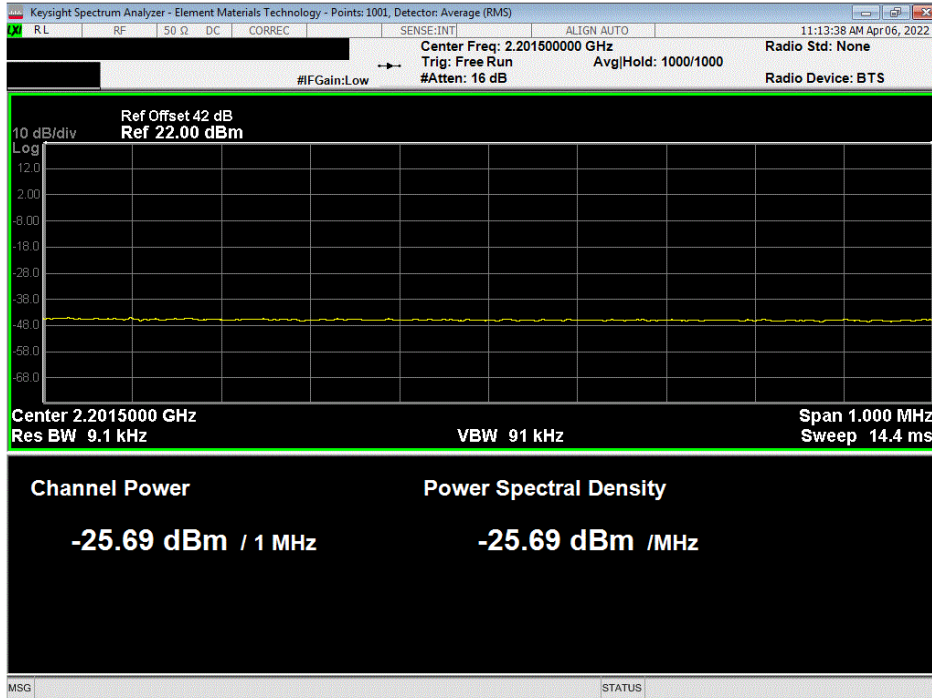


BAND EDGE COMPLIANCE

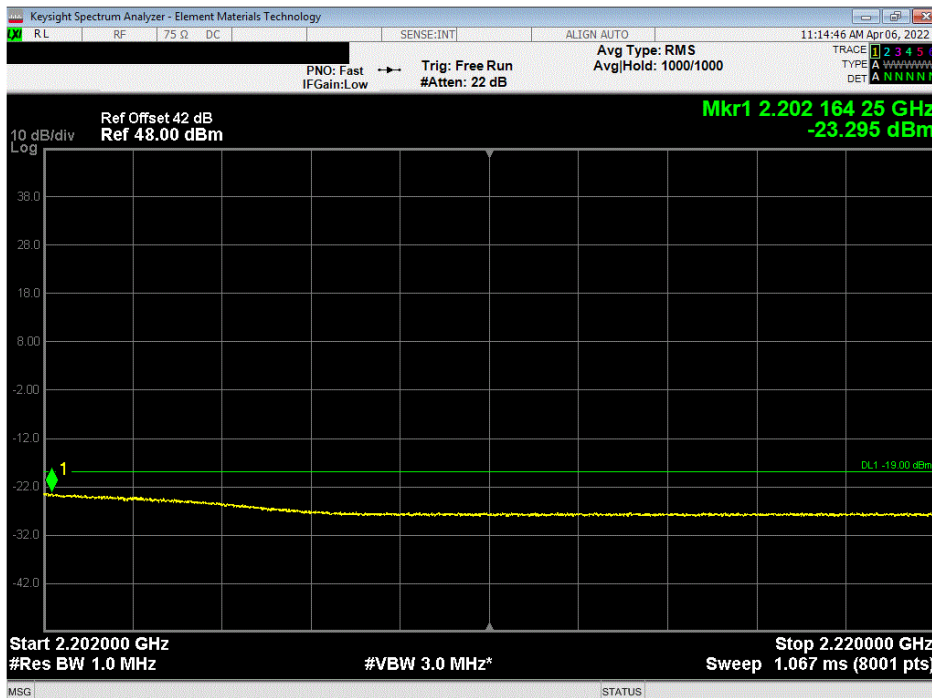


TbTx 2021.12.14.1 XMit 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.7	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 16-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.3	-19	Pass			

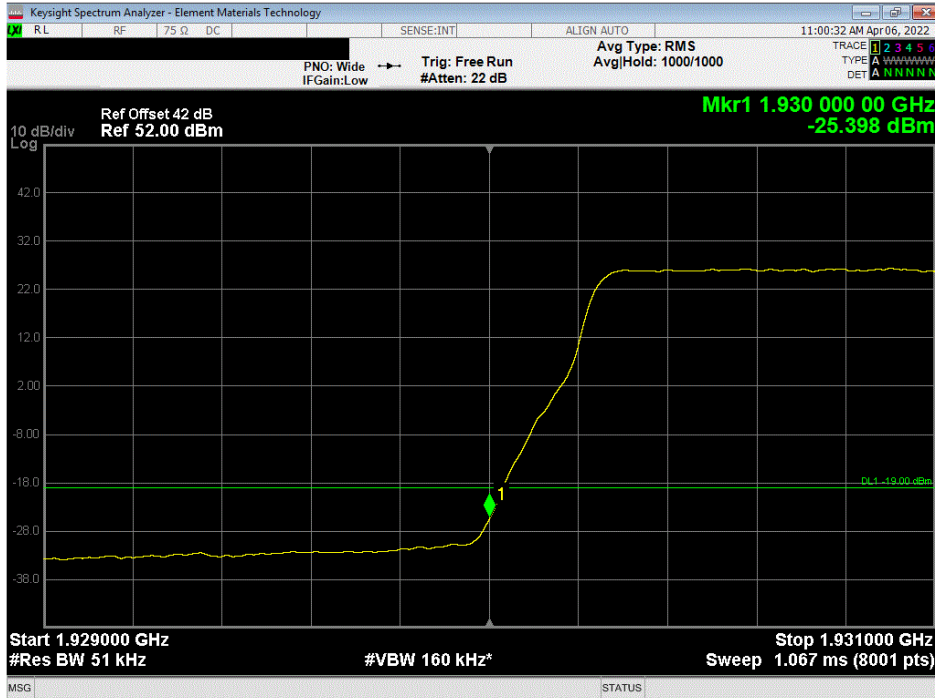


BAND EDGE COMPLIANCE

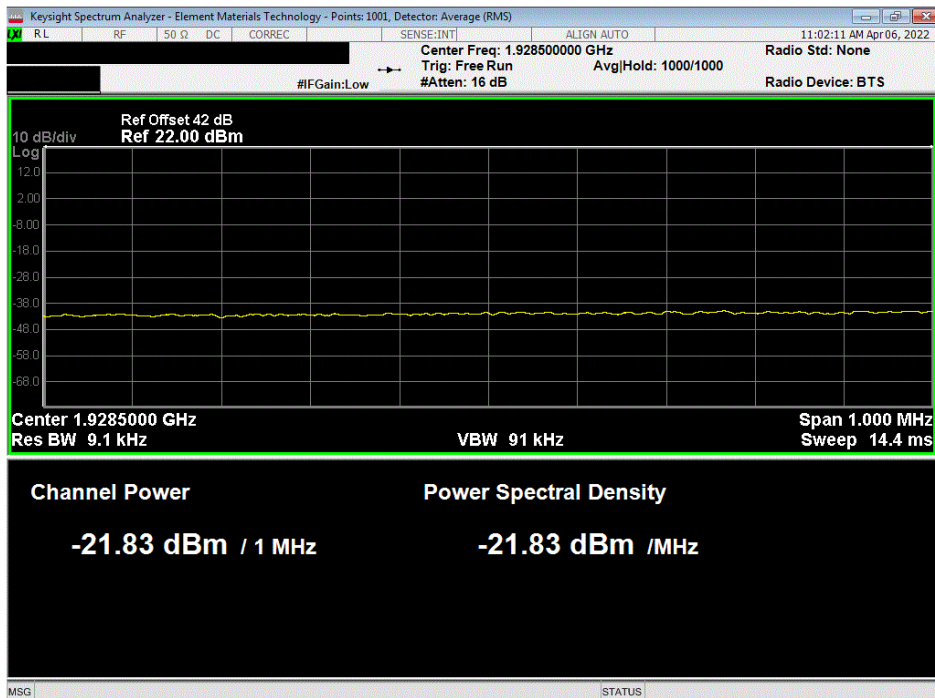


TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.4	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.8	-19	Pass			

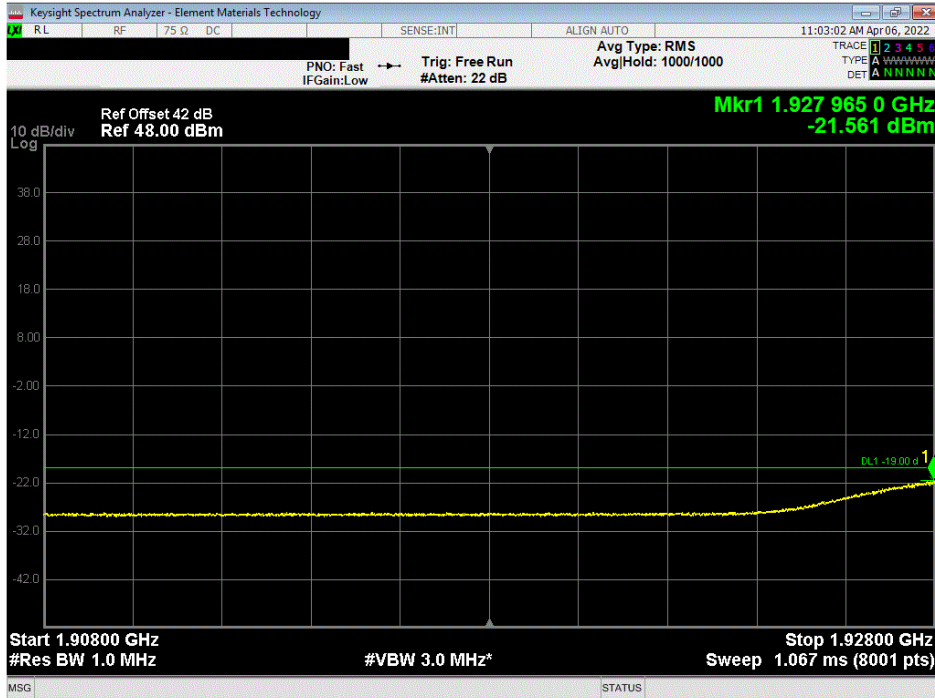


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMi 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.56	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-28.79	-19	Pass			

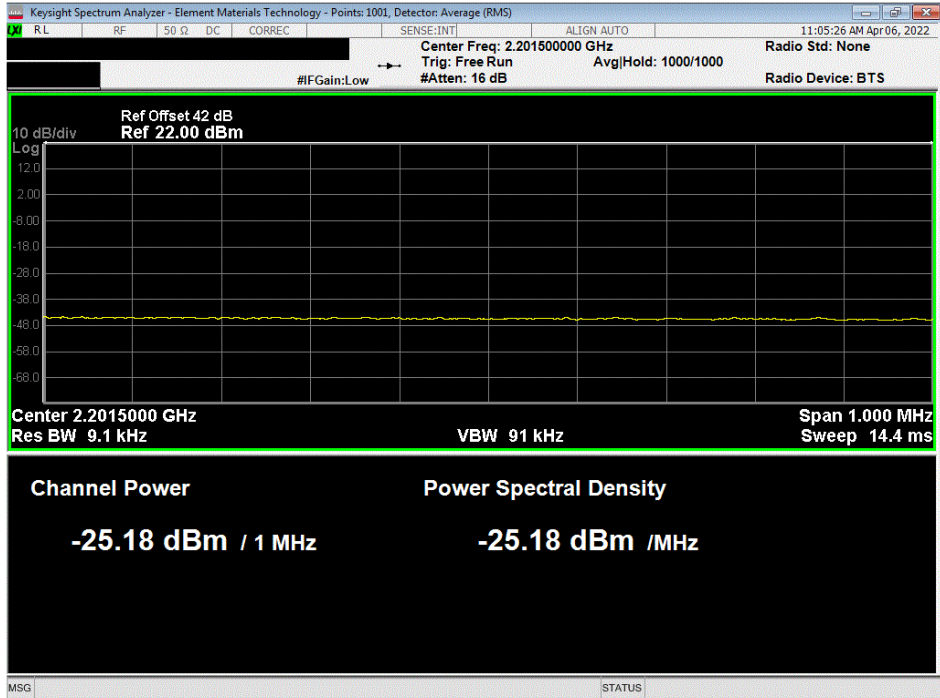


BAND EDGE COMPLIANCE

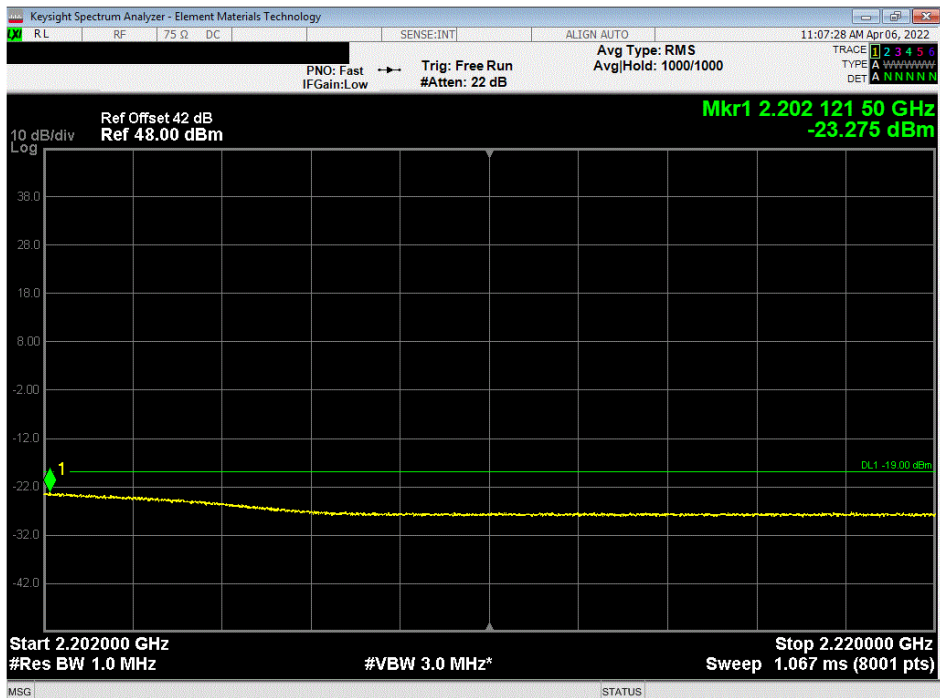


TbTx 2021.12.14.1 XMit 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 64-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.28	-19	Pass			

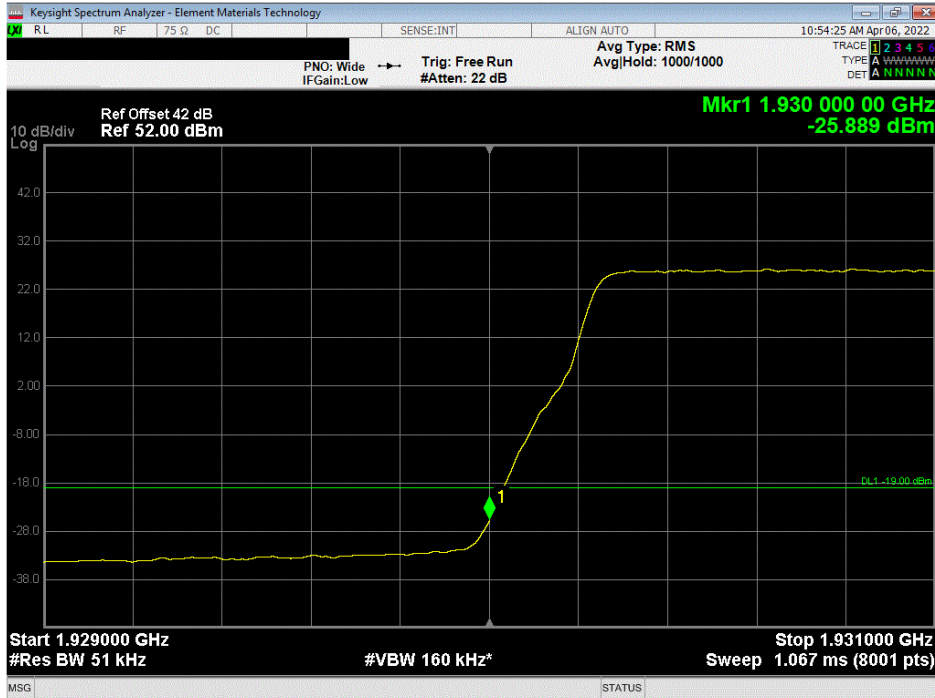


BAND EDGE COMPLIANCE

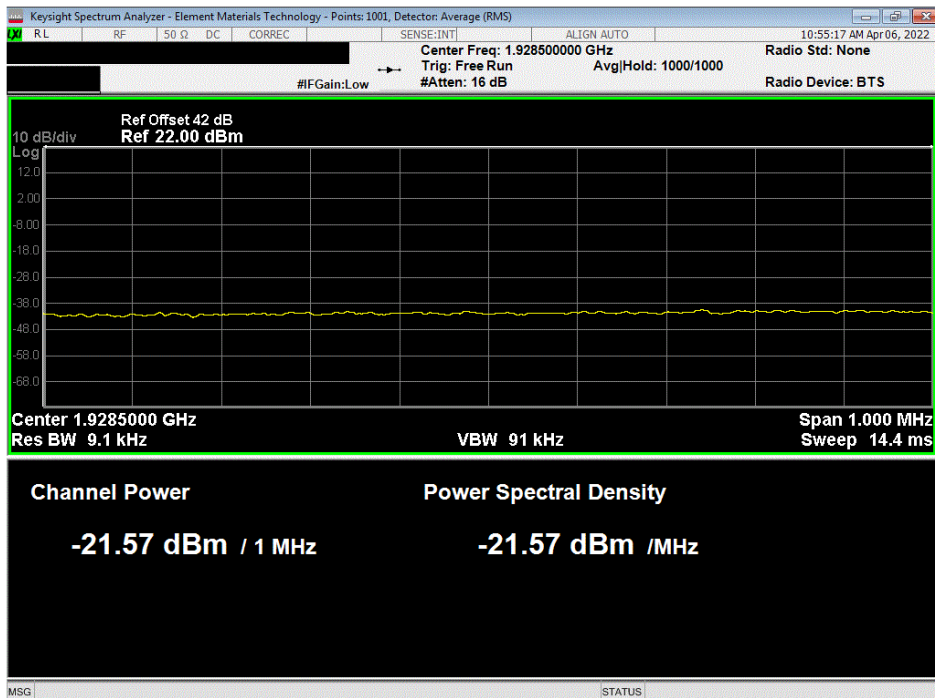


TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-25.89	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-21.6	-19	Pass			

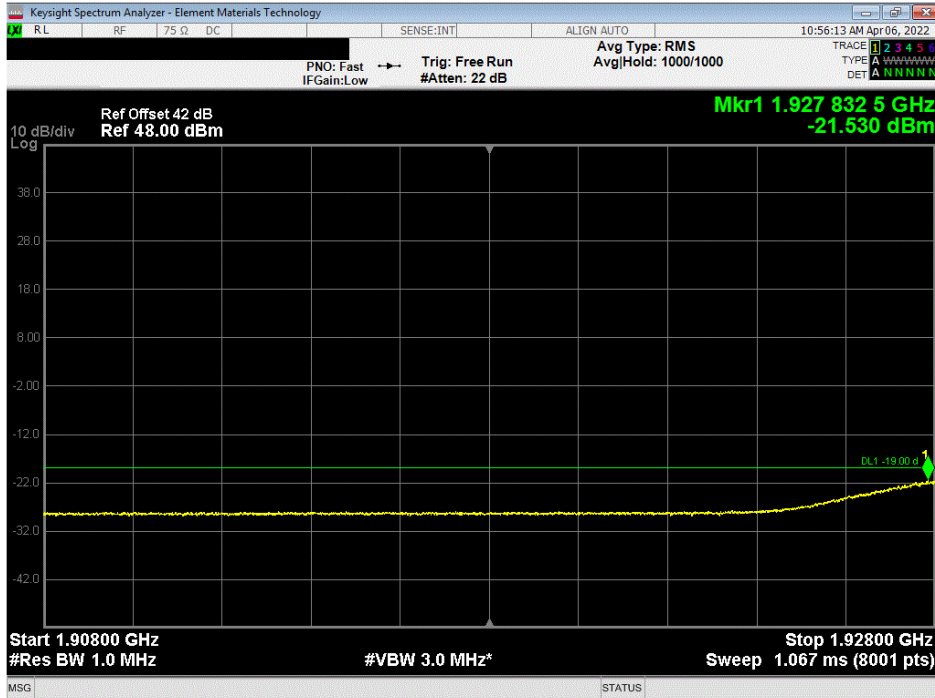


BAND EDGE COMPLIANCE

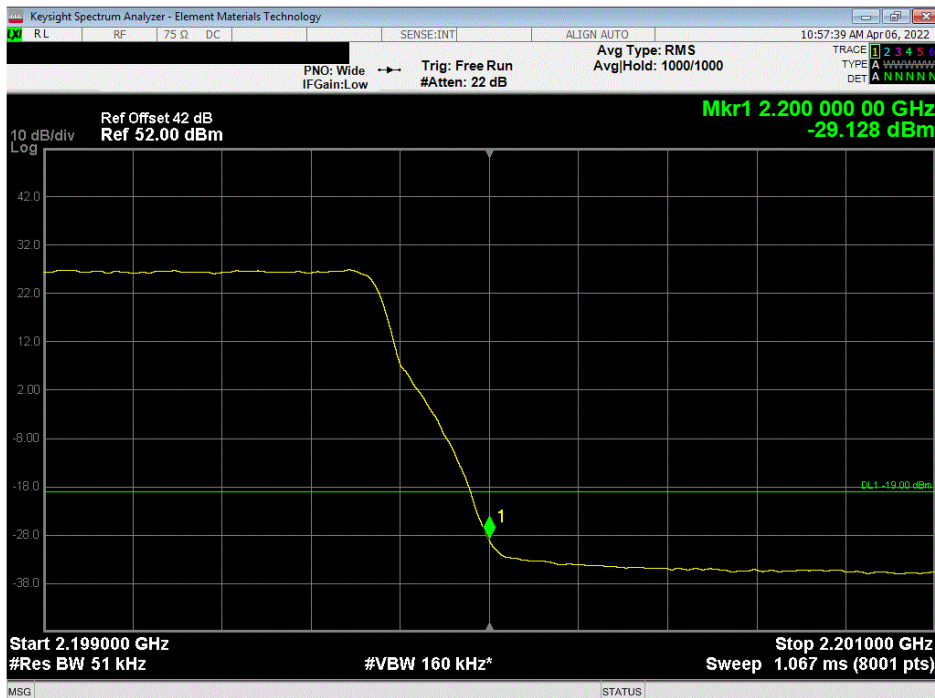


TbTx 2021.12.14.1 XMi 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, PCS Carrier 1, 1932.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-21.53	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
1	-29.13	-19	Pass			

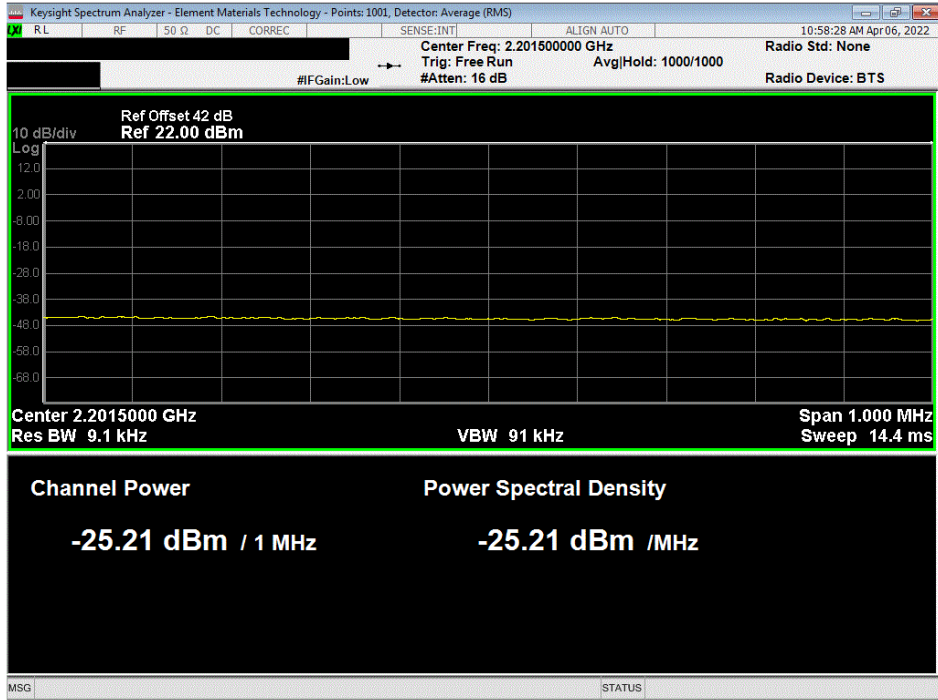


BAND EDGE COMPLIANCE



TbTx 2021.12.14.1 XMI 2022.02.07.0

Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
2	-25.2	-19	Pass			



Multicarrier Multiband, Port 1, Test Case: PCS Band NR5 (2 Carriers), AWS Band NR5 (Single Carrier), 256-QAM Modulation, AWS Single Carrier, 2197.5 MHz						
Frequency Range	Max Value (dBm)	Limit < (dBm)	Result			
3	-23.33	-19	Pass			

