

**SPURIOUS CONDUCTED
EMISSIONS MIMO 3x3**

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.	Interval (mo)
Attenuator, 'Precision N'	S.M. Electronics	SA18N-06/SM4032	REE	10/20/2014	12
MXG Analog Signal Generator	Agilent	N5181A	TIG	3/28/2014	36
Power Meter	Gigatronics	8651A	SPM	9/17/2014	12
Power Sensor	Gigatronics	80701A	SPL	5/28/2014	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2014	12
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	12

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



SPURIOUS CONDUCTED EMISSIONS MIMO 3x3

XMit 2014.02.07
NweTx 2014.07.18.4

EUT: WavePoint - 5GHz Radio (W5800-01)	Work Order: FREW0041
Serial Number: 00:07:E7:A0:01:B6	Date: 11/14/14
Customer: FreeWave Technologies, Inc.	Temperature: 23.0°C
Attendees: None	Humidity: 25%
Project: None	Barometric Pres.: 1012.64
Tested by: Brandon Hobbs	Power: 110VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

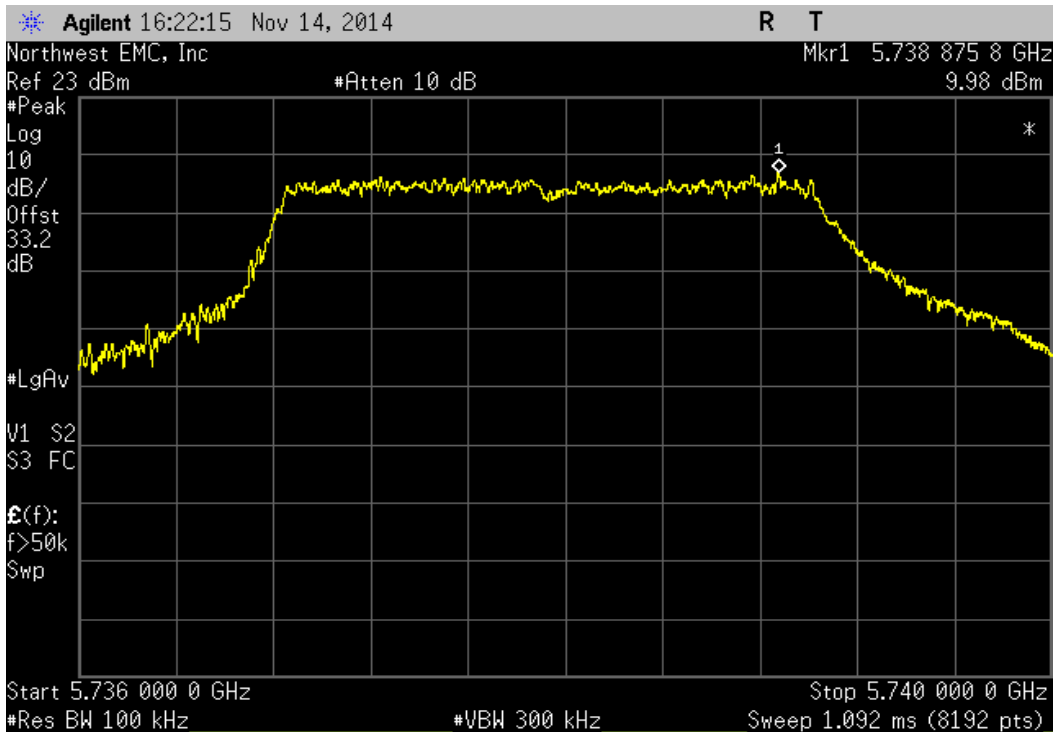
COMMENTS
The High and Low Channels were measured using the worst case modulation found for 8011(n) MIMO modes. An additional 40GHz DC block and 10dB 5watt attenuator were used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

DEVIATIONS FROM TEST STANDARD
None

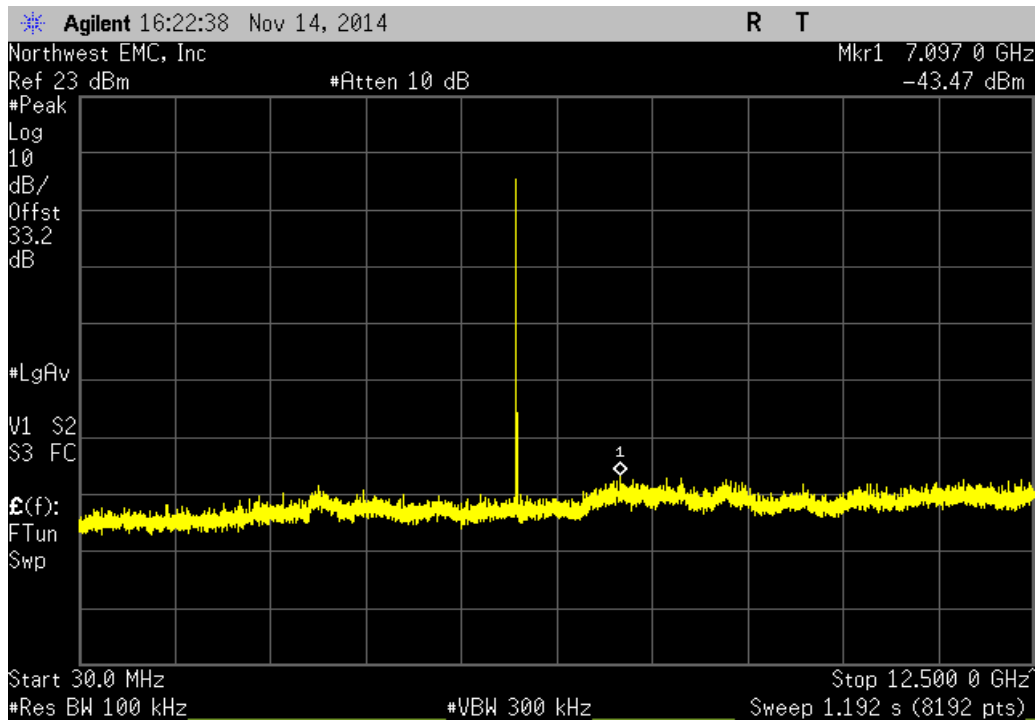
Configuration #	1	Signature
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Chain 3	Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
2.5MHz Bandwidth				
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6				
Low Channel 5738MHz	Fundamental	N/A	N/A	N/A
Low Channel 5738MHz	30 MHz - 12.5 GHz	-53.45	-20	Pass
Low Channel 5738MHz	12.5 GHz - 25 GHz	-47.07	-20	Pass
Low Channel 5738MHz	25 GHz - 32 GHz	-44.45	-20	Pass
Low Channel 5738MHz	32 GHz - 40 GHz	-36.11	-20	Pass
Mid Channel 5783MHz	Fundamental	N/A	N/A	N/A
Mid Channel 5783MHz	30 MHz - 12.5 GHz	-52.75	-20	Pass
Mid Channel 5783MHz	12.5 GHz - 25 GHz	-46.19	-20	Pass
Mid Channel 5783MHz	25 GHz - 32 GHz	-44.82	-20	Pass
Mid Channel 5783MHz	32 GHz - 40 GHz	-35.26	-20	Pass
High Channel 5831MHz	Fundamental	N/A	N/A	N/A
High Channel 5831MHz	30 MHz - 12.5 GHz	-52.22	-20	Pass
High Channel 5831MHz	12.5 GHz - 25 GHz	-45.82	-20	Pass
High Channel 5831MHz	25 GHz - 32 GHz	-44.06	-20	Pass
High Channel 5831MHz	32 GHz - 40 GHz	-35.23	-20	Pass
5MHz Bandwidth				
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6				
Low Channel 5739MHz	Fundamental	N/A	N/A	N/A
Low Channel 5739MHz	30 MHz - 12.5 GHz	-50.05	-20	Pass
Low Channel 5739MHz	12.5 GHz - 25 GHz	-43.63	-20	Pass
Low Channel 5739MHz	25 GHz - 32 GHz	-41.75	-20	Pass
Low Channel 5739MHz	32 GHz - 40 GHz	-30.59	-20	Pass
Mid Channel 5784MHz	Fundamental	N/A	N/A	N/A
Mid Channel 5784MHz	30 MHz - 12.5 GHz	-50.07	-20	Pass
Mid Channel 5784MHz	12.5 GHz - 25 GHz	-40.98	-20	Pass
Mid Channel 5784MHz	25 GHz - 32 GHz	-40.92	-20	Pass
Mid Channel 5784MHz	32 GHz - 40 GHz	-31.24	-20	Pass
High Channel 5829MHz	Fundamental	N/A	N/A	N/A
High Channel 5829MHz	30 MHz - 12.5 GHz	-48.8	-20	Pass
High Channel 5829MHz	12.5 GHz - 25 GHz	-41.23	-20	Pass
High Channel 5829MHz	25 GHz - 32 GHz	-39.3	-20	Pass
High Channel 5829MHz	32 GHz - 40 GHz	-30.55	-20	Pass
10MHz Bandwidth				
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6				
Low Channel 5742MHz	Fundamental	N/A	N/A	N/A
Low Channel 5742MHz	30 MHz - 12.5 GHz	-56.62	-20	Pass
Low Channel 5742MHz	12.5 GHz - 25 GHz	-49.63	-20	Pass
Low Channel 5742MHz	25 GHz - 32 GHz	-47.7	-20	Pass
Low Channel 5742MHz	32 GHz - 40 GHz	-38.37	-20	Pass
Mid Channel 5782MHz	Fundamental	N/A	N/A	N/A
Mid Channel 5782MHz	30 MHz - 12.5 GHz	-56.09	-20	Pass
Mid Channel 5782MHz	12.5 GHz - 25 GHz	-48.89	-20	Pass
Mid Channel 5782MHz	25 GHz - 32 GHz	-47.64	-20	Pass
Mid Channel 5782MHz	32 GHz - 40 GHz	-37.8	-20	Pass
High Channel 5827MHz	Fundamental	N/A	N/A	N/A
High Channel 5827MHz	30 MHz - 12.5 GHz	-55.45	-20	Pass
High Channel 5827MHz	12.5 GHz - 25 GHz	-48.98	-20	Pass
High Channel 5827MHz	25 GHz - 32 GHz	-46.87	-20	Pass
High Channel 5827MHz	32 GHz - 40 GHz	-37.21	-20	Pass

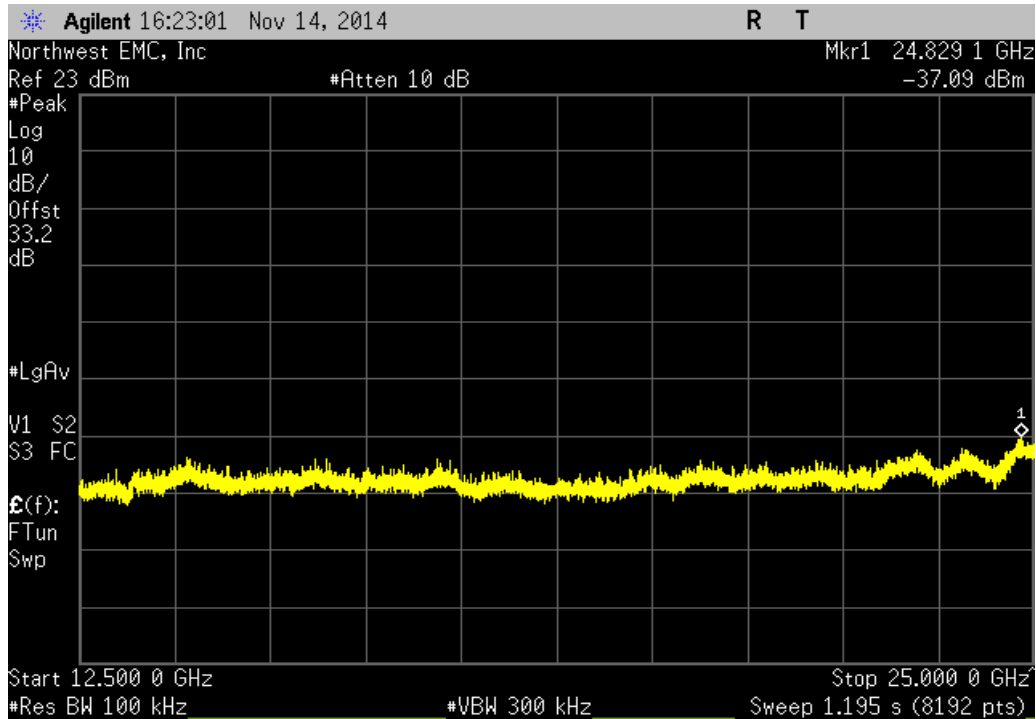
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5738MHz						
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result			
Fundamental	N/A	N/A	N/A			



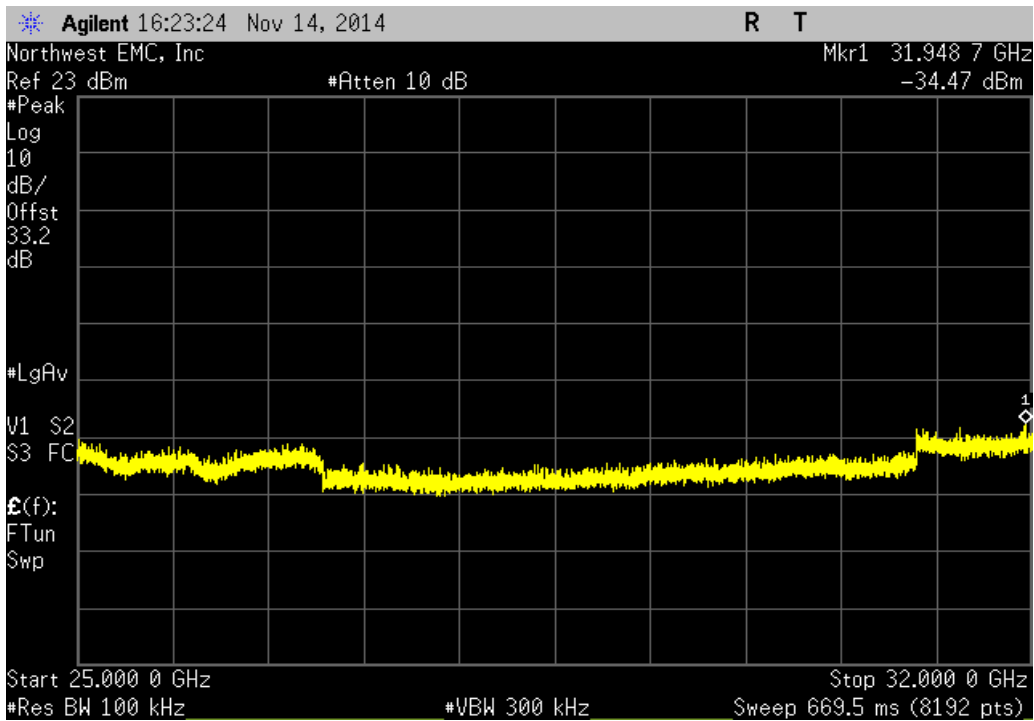
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5738MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-53.45	-20	Pass	



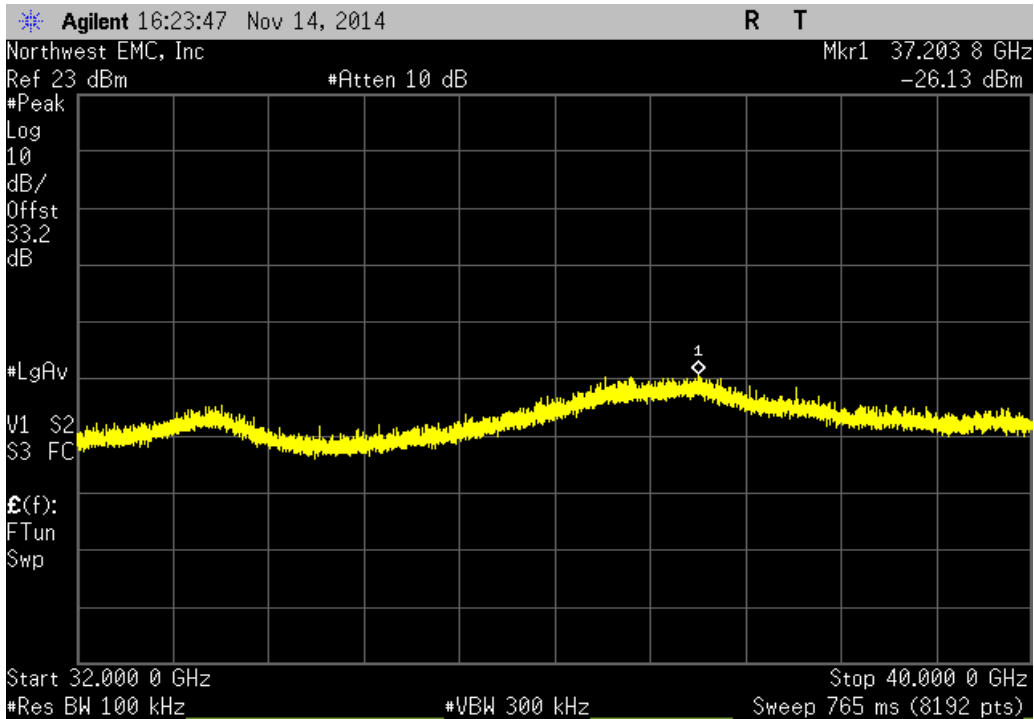
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5738MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-47.07	-20	Pass	



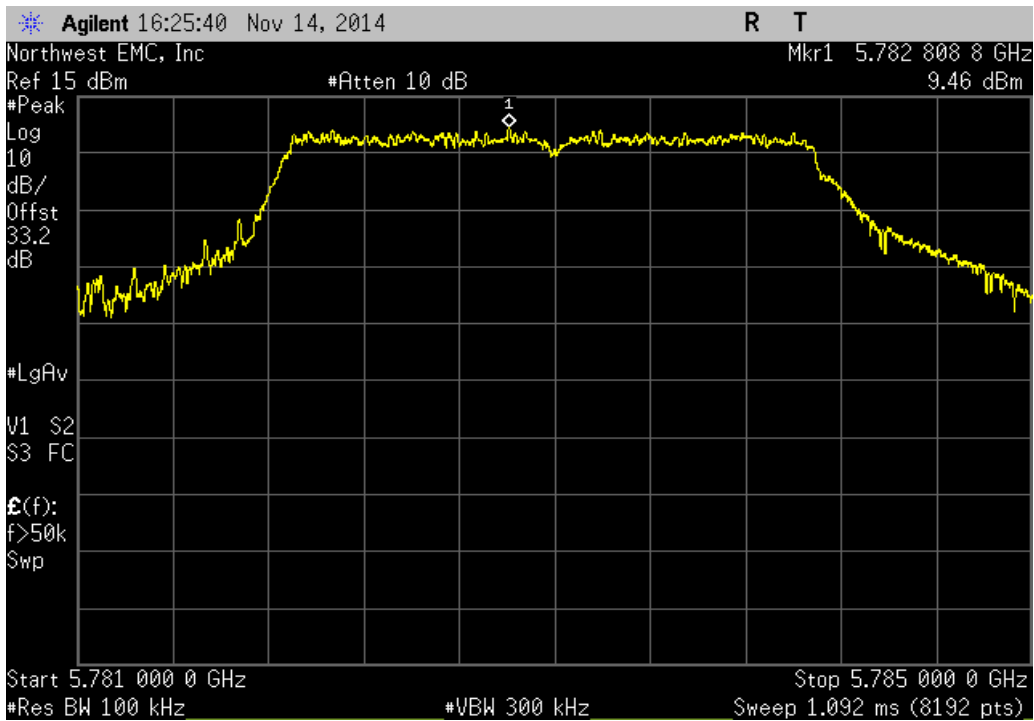
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5738MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-44.45	-20	Pass	



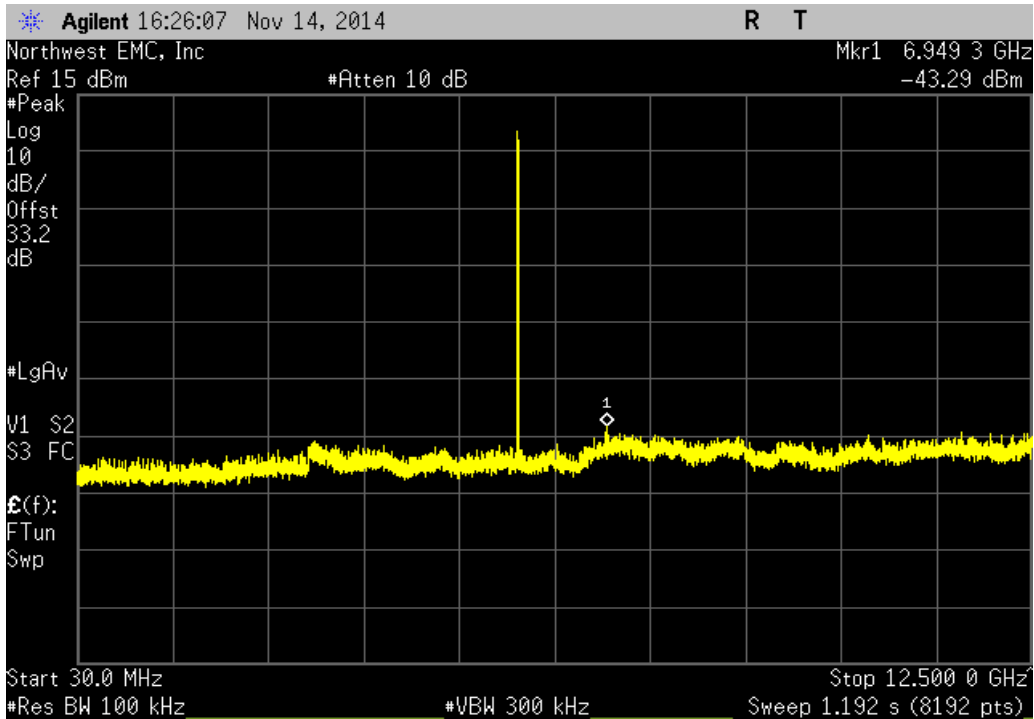
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5738MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-36.11	-20	Pass	



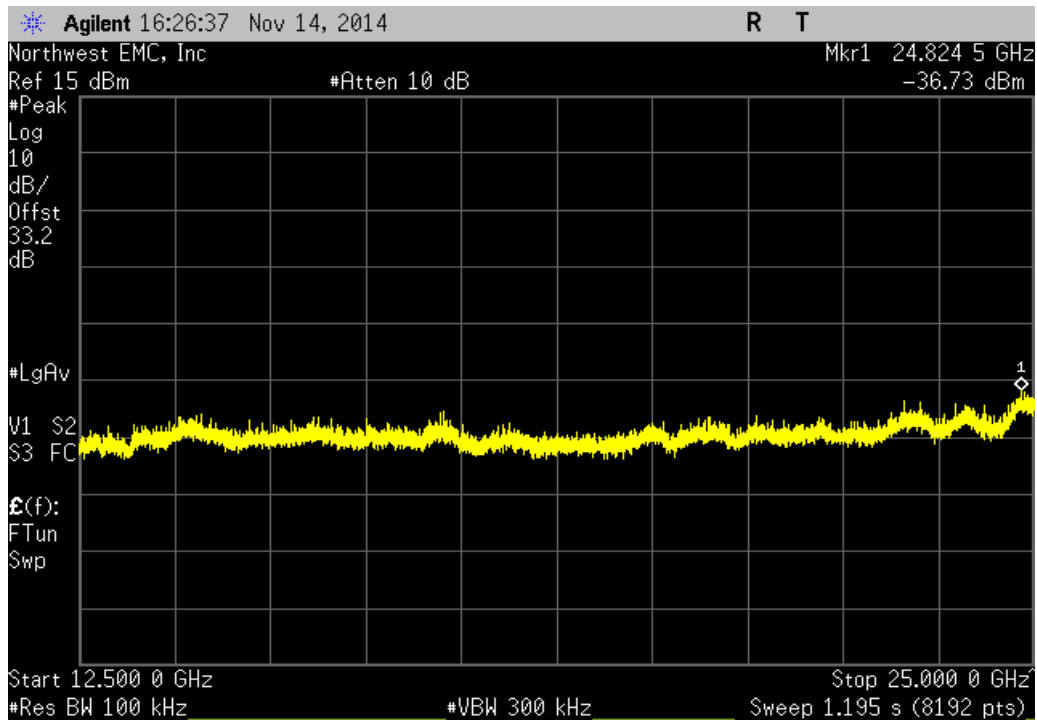
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5783MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	N/A	N/A	N/A



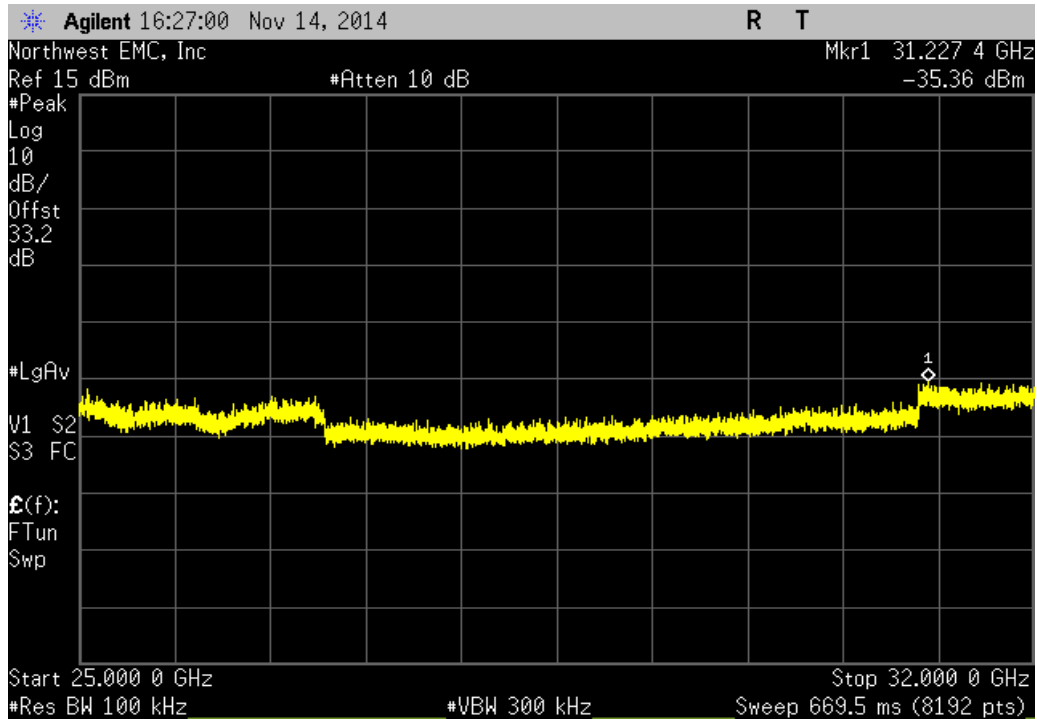
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5783MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	-52.75	-20	Pass



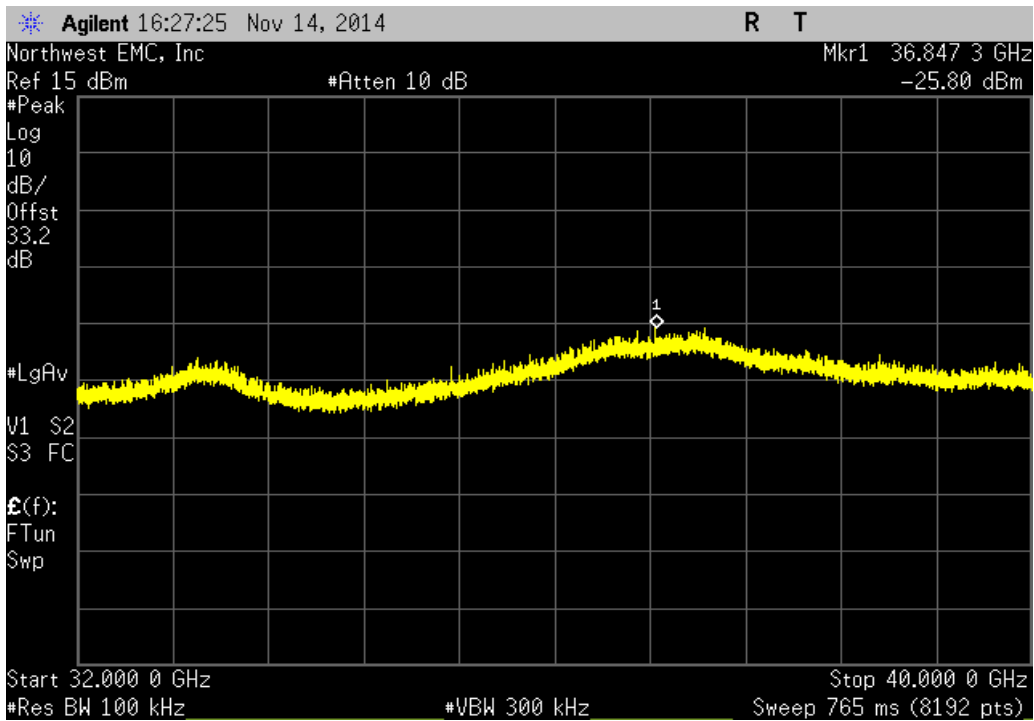
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5783MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-46.19	-20	Pass	



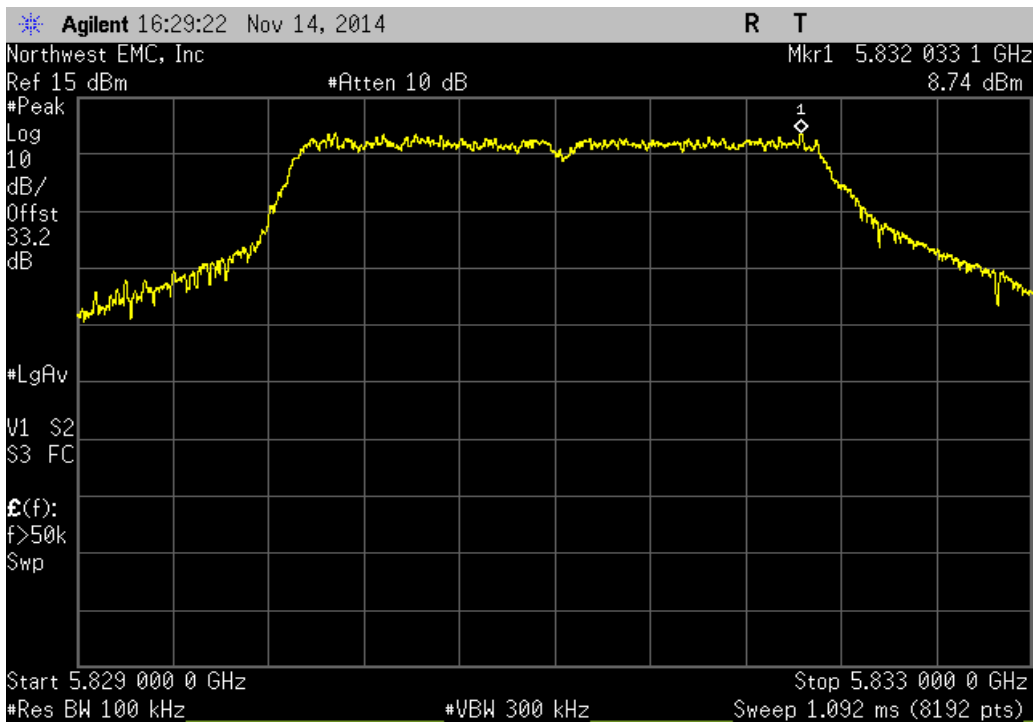
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5783MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-44.82	-20	Pass	



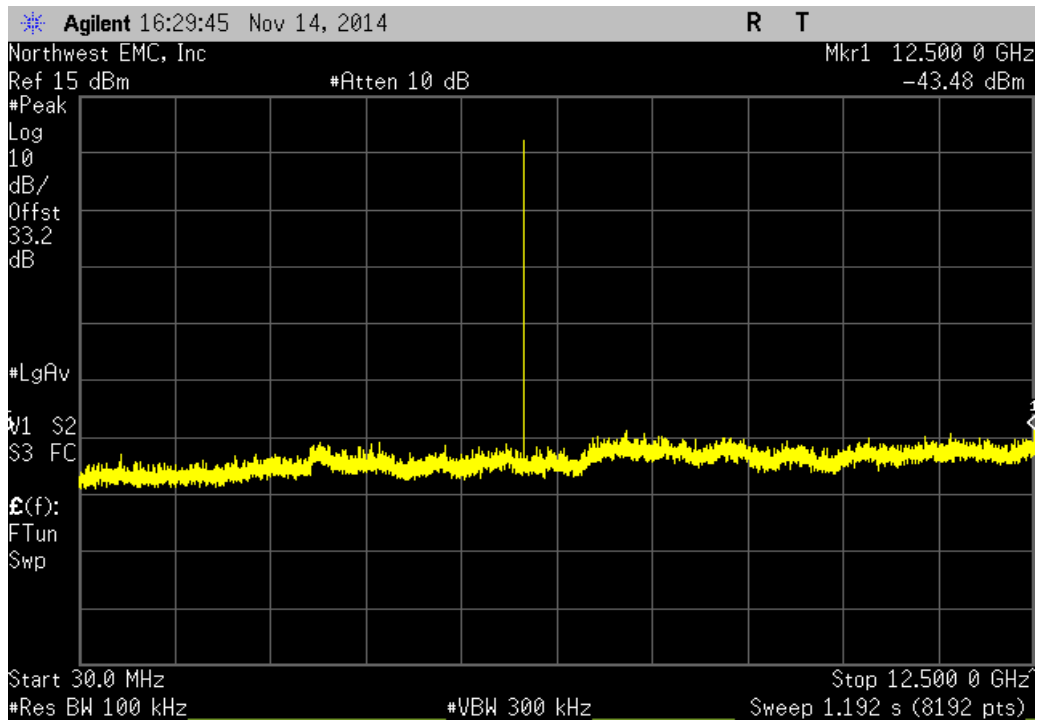
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5783MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
32 GHz - 40 GHz	-35.26	-20	Pass



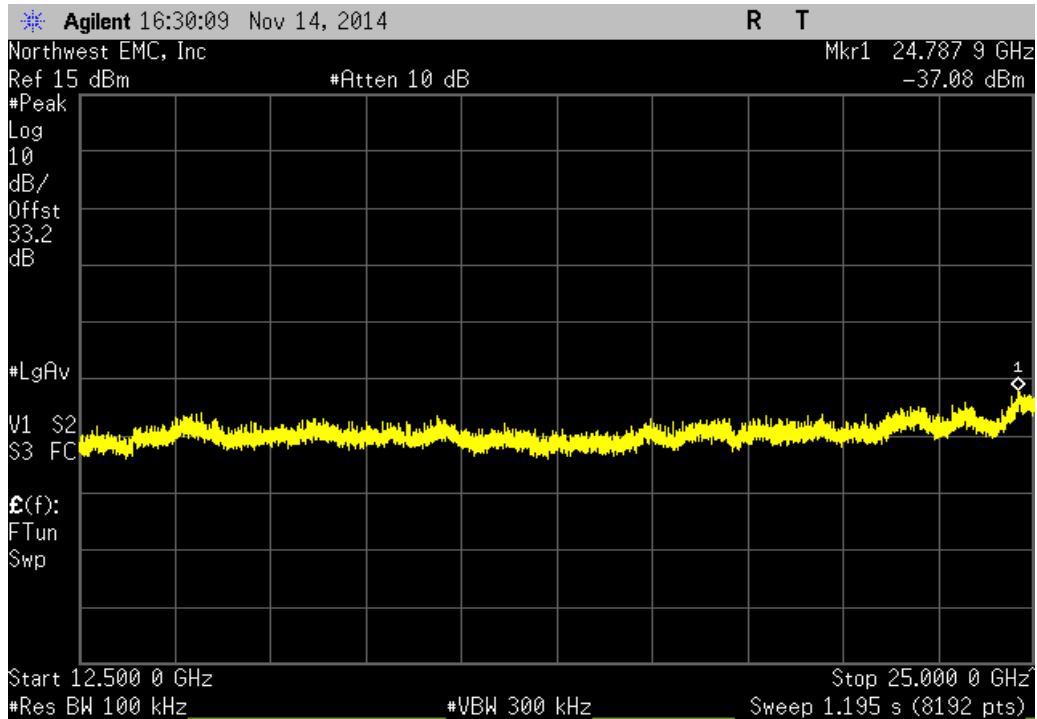
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5831MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	N/A	N/A	N/A



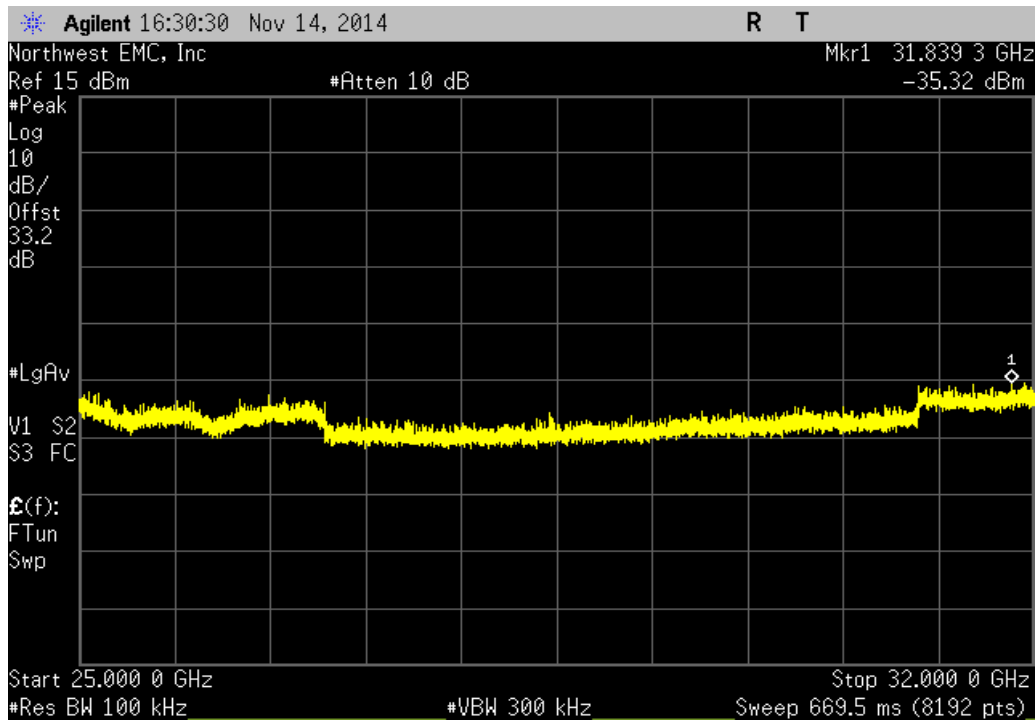
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5831MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-52.22	-20	Pass	



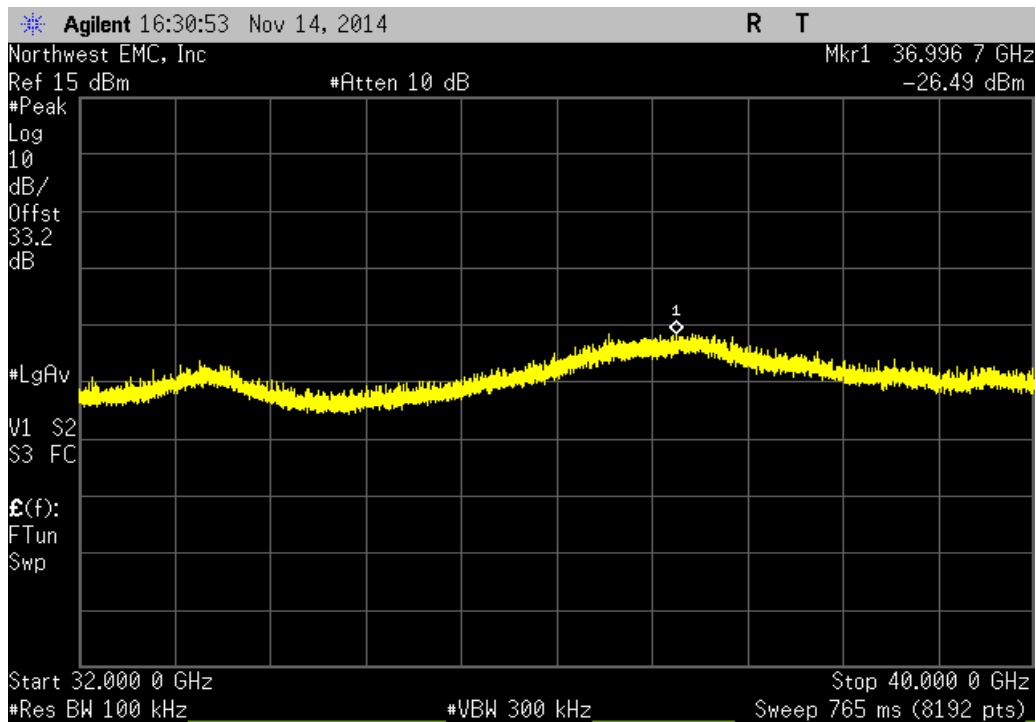
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5831MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-45.82	-20	Pass	



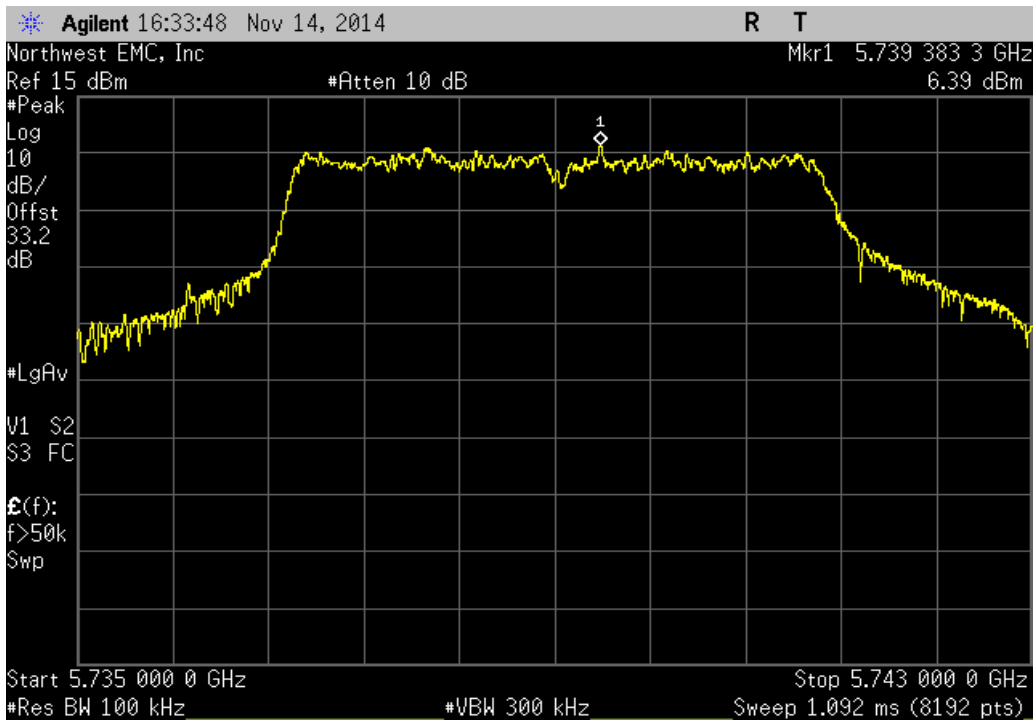
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5831MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-44.06	-20	Pass	



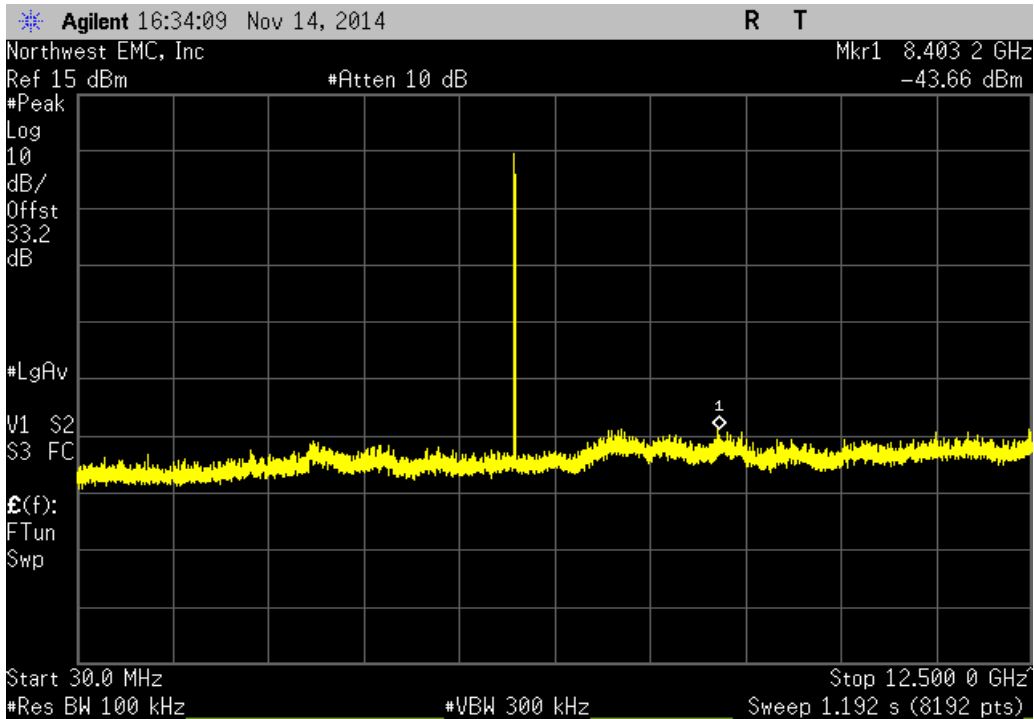
Chain 3, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5831MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-35.23	-20	Pass	



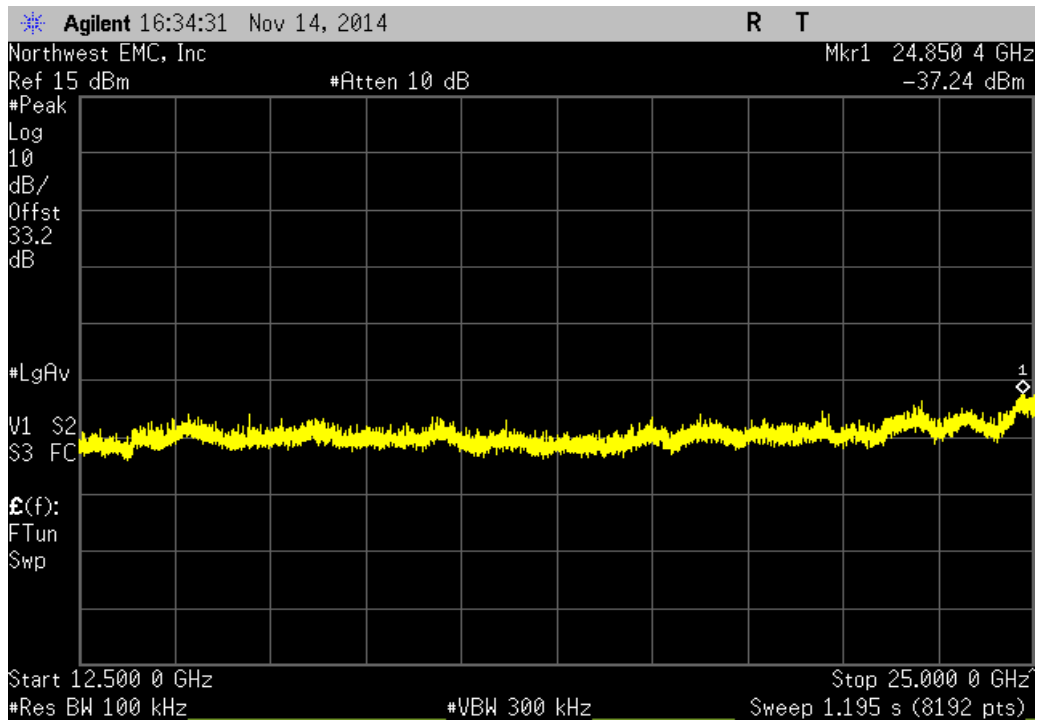
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5739MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	



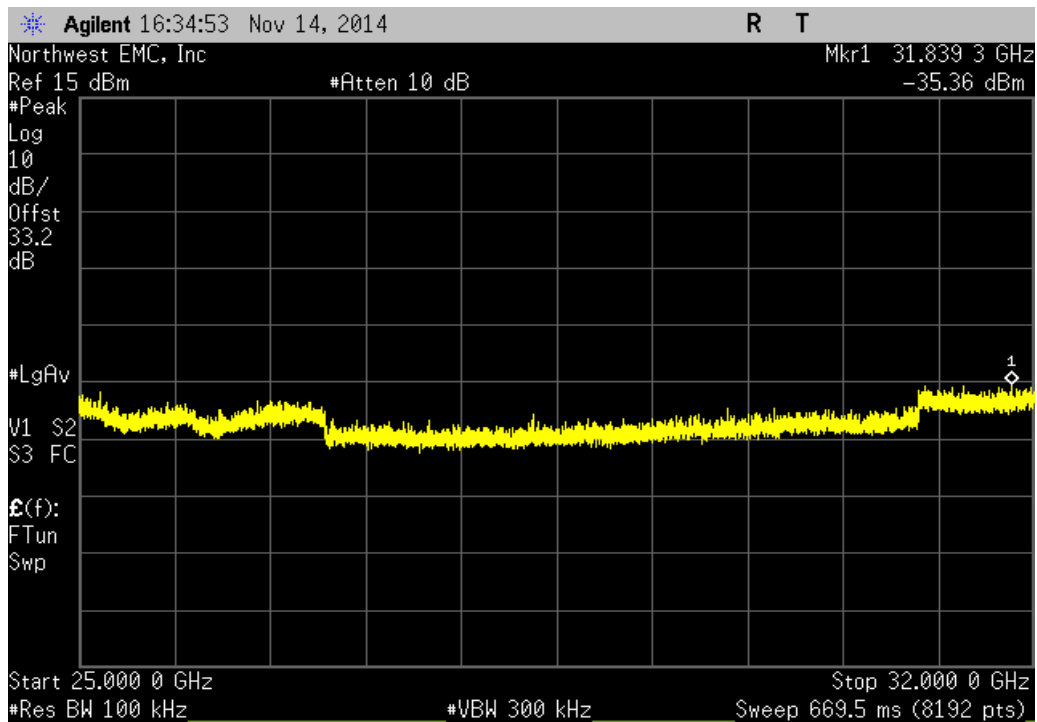
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5739MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-50.05	-20	Pass	



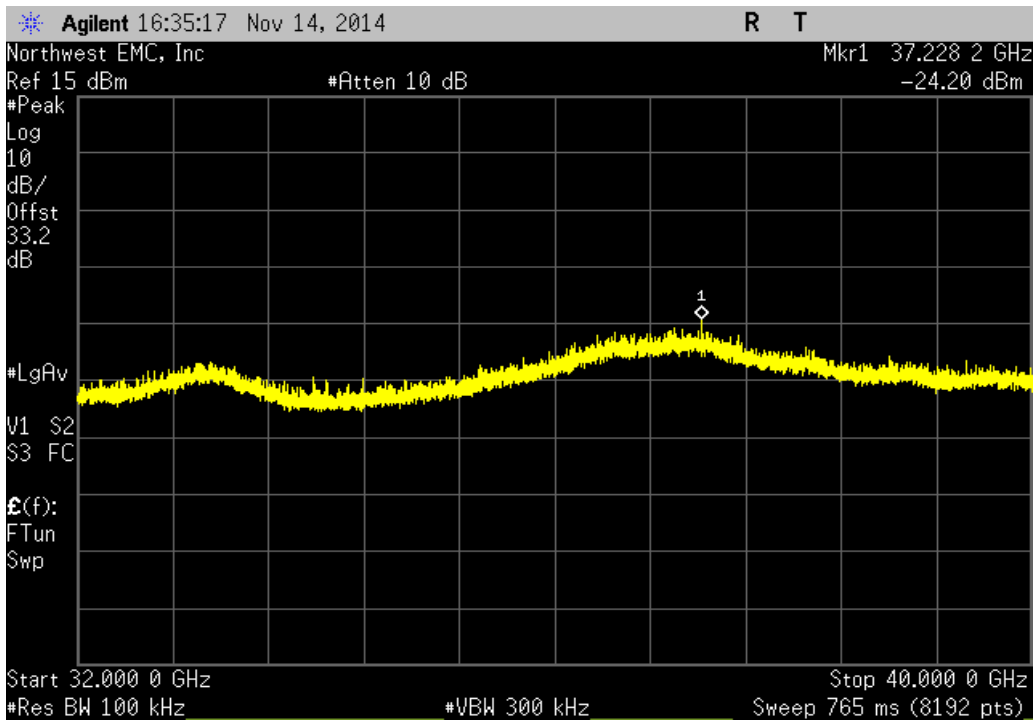
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5739MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-43.63	-20	Pass	



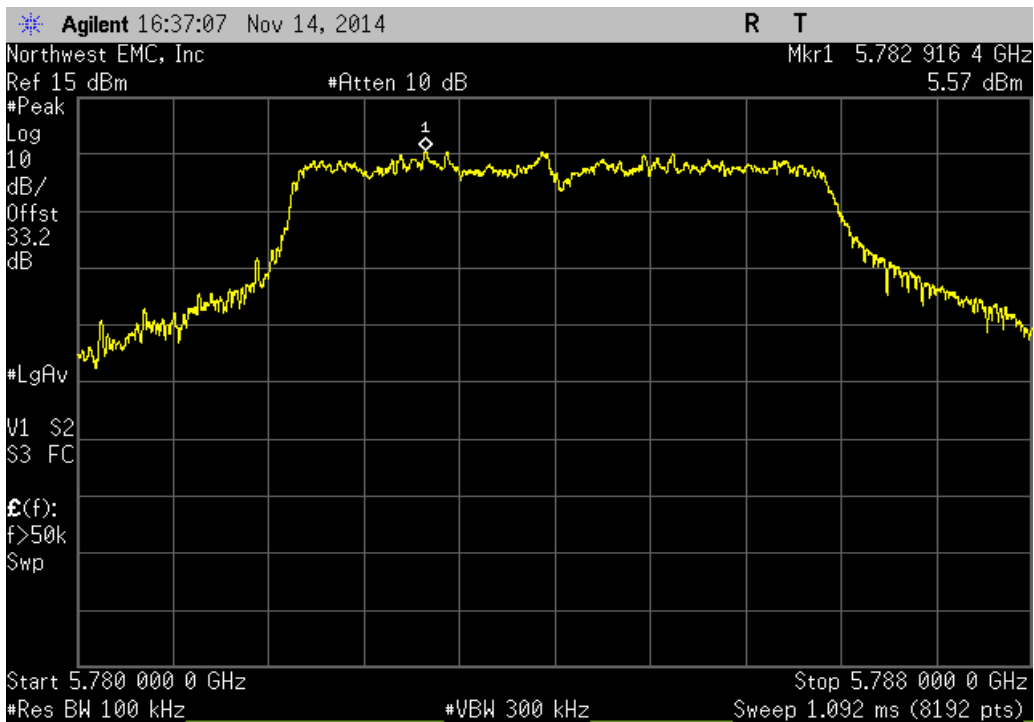
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5739MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-41.75	-20	Pass	



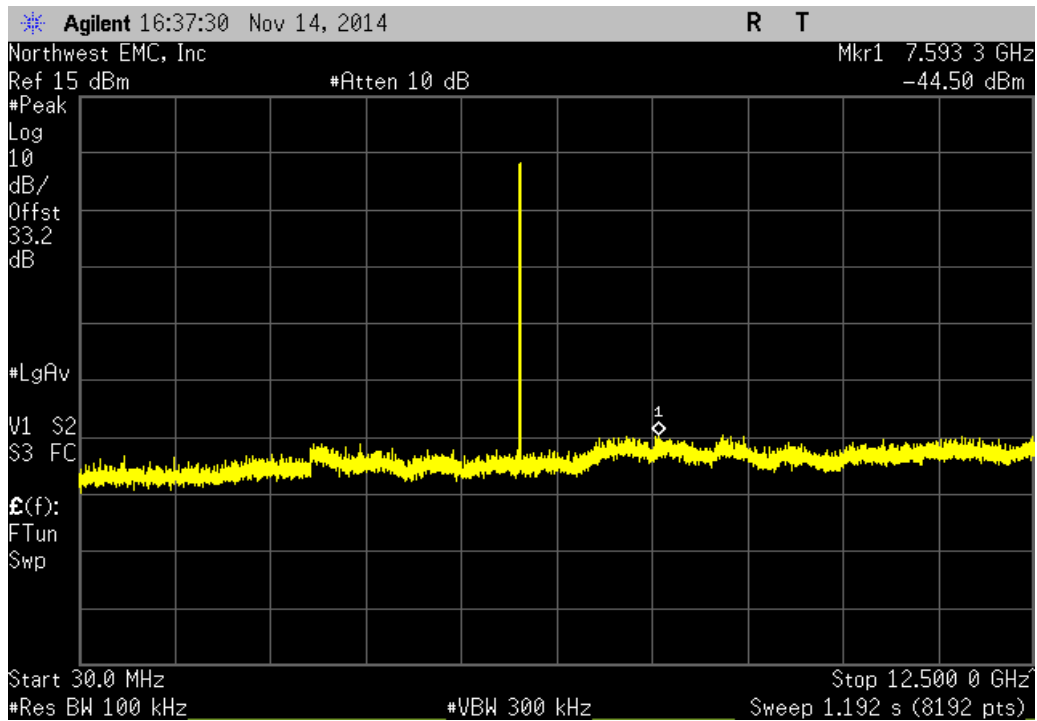
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5739MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-30.59	-20	Pass	



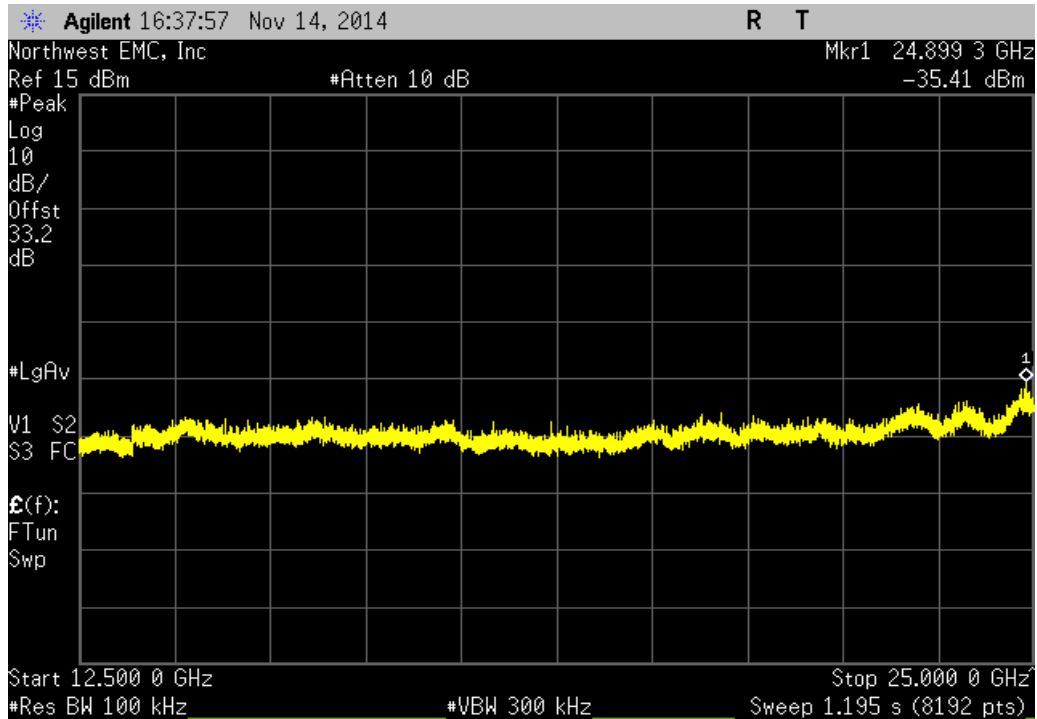
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5784MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	N/A	N/A	N/A	



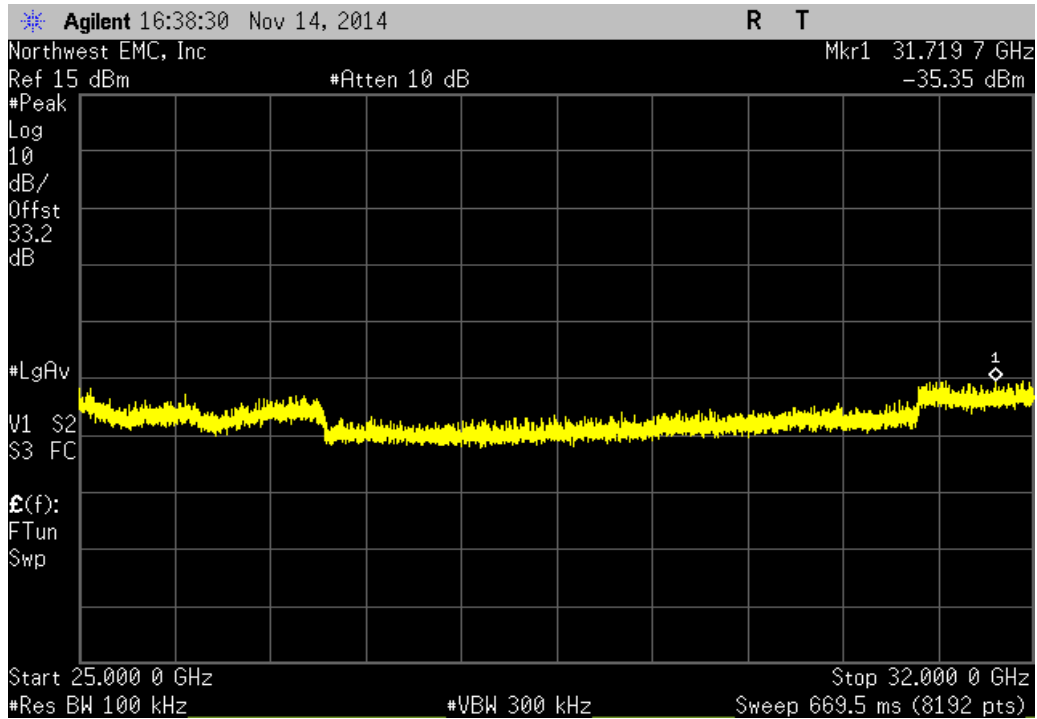
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5784MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-50.07	-20	Pass	



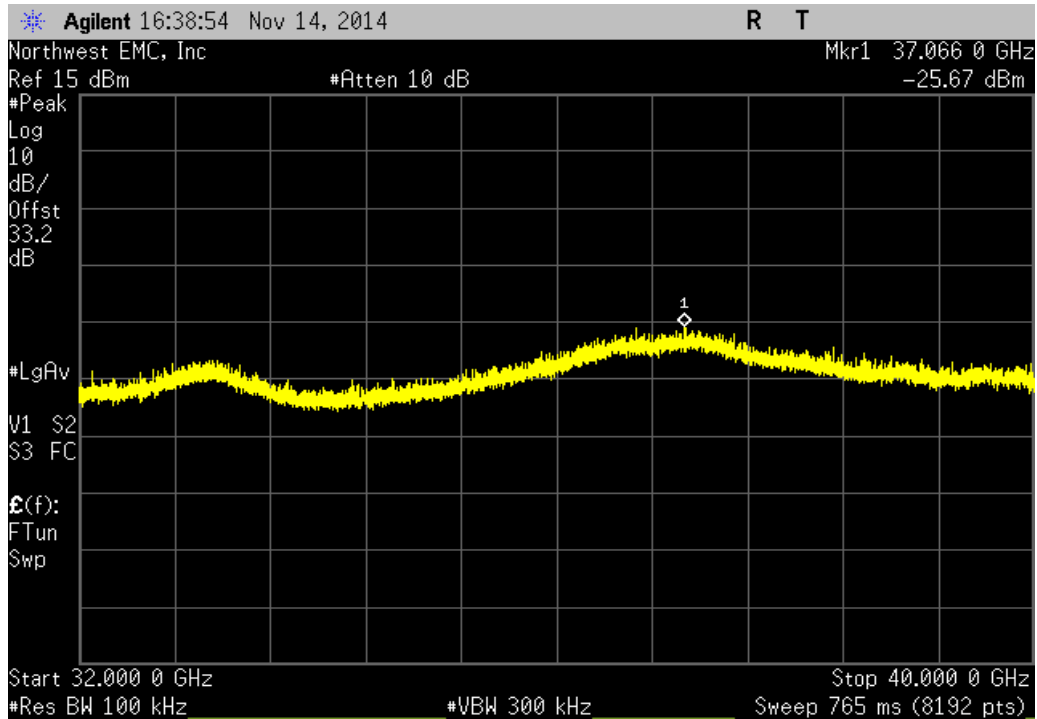
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5784MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-40.98	-20	Pass	



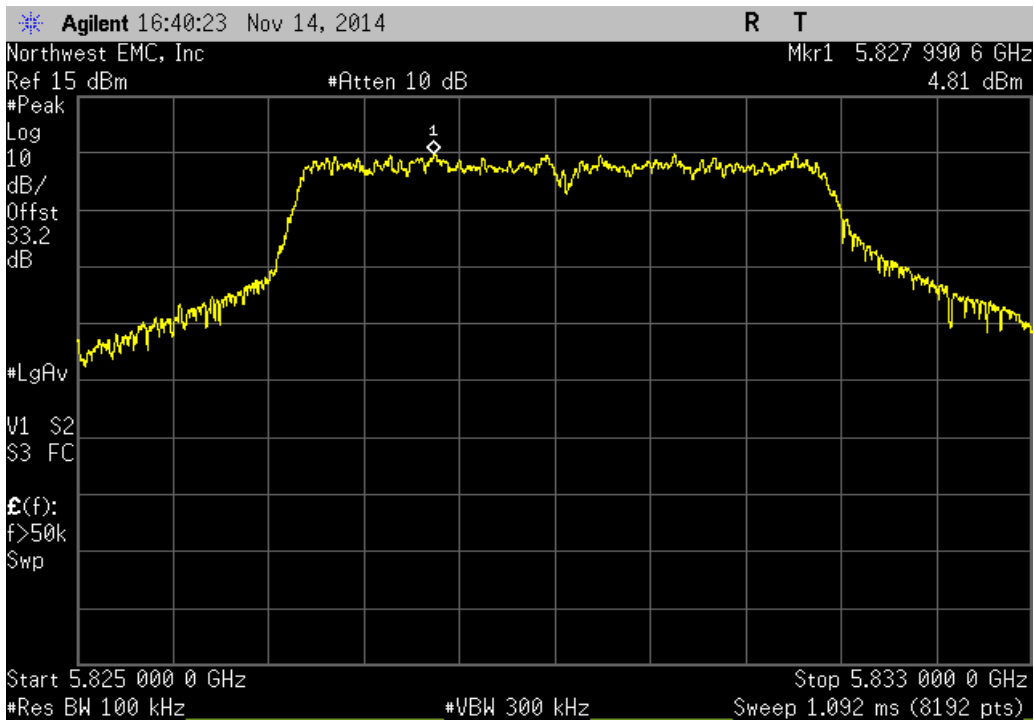
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5784MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-40.92	-20	Pass	



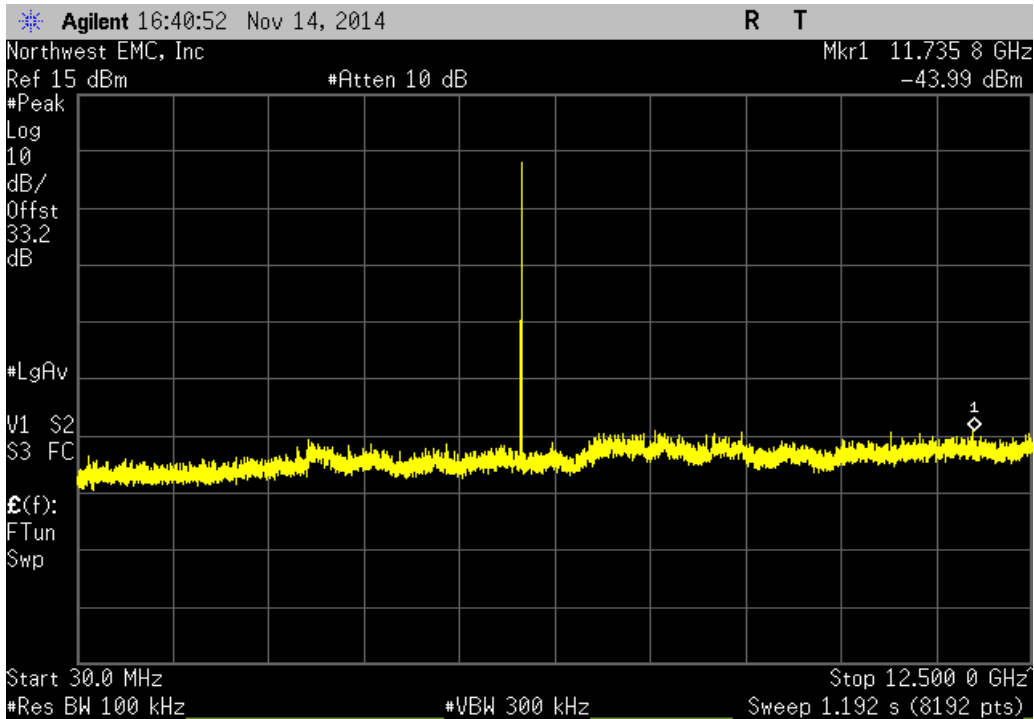
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5784MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-31.24	-20	Pass	



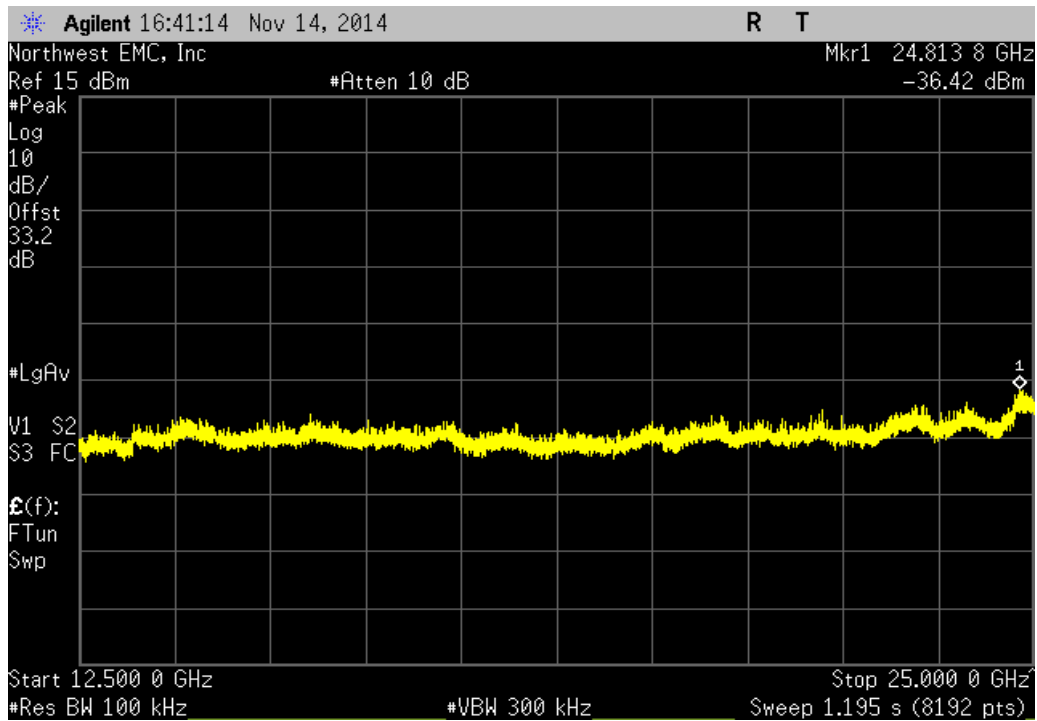
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5829MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	N/A	N/A	N/A



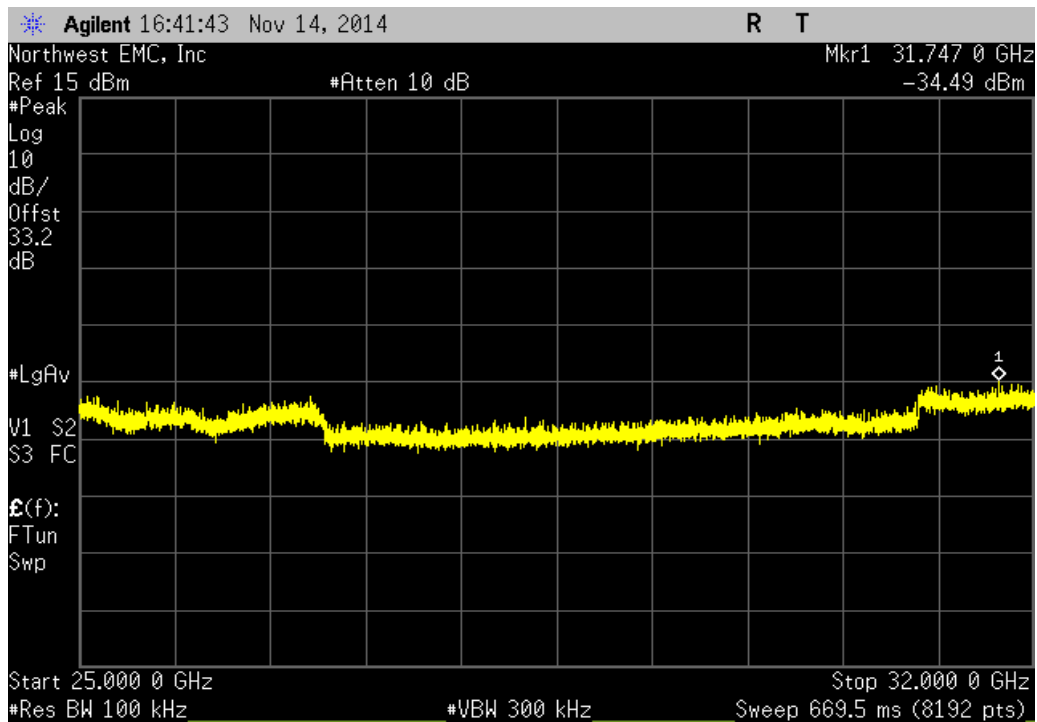
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5829MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	-48.8	-20	Pass



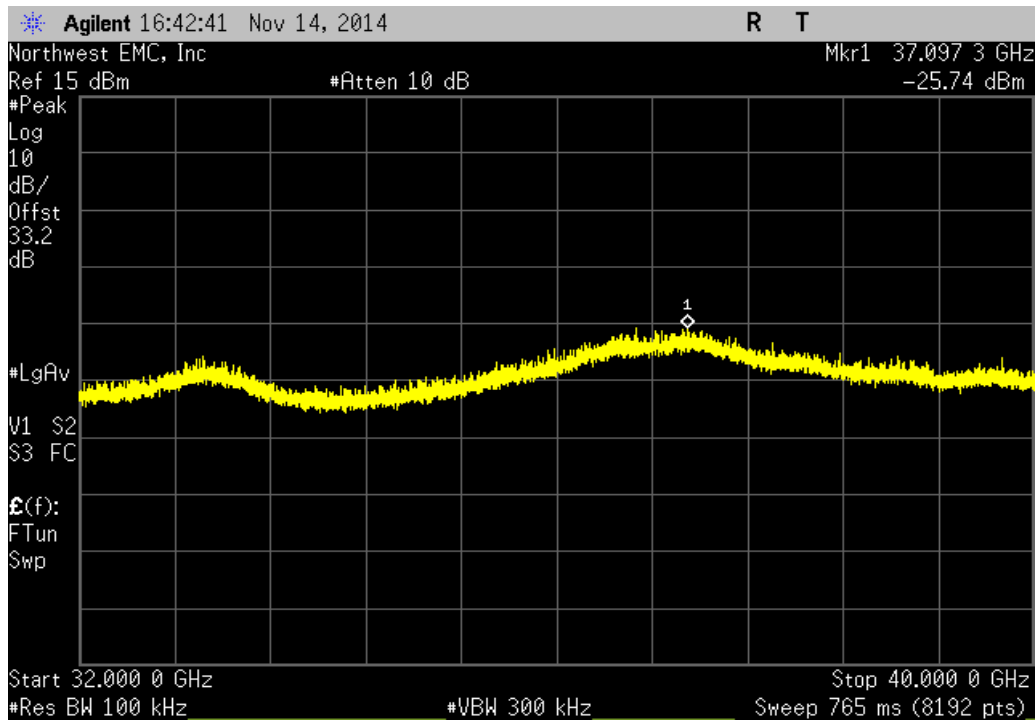
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5829MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-41.23	-20	Pass	



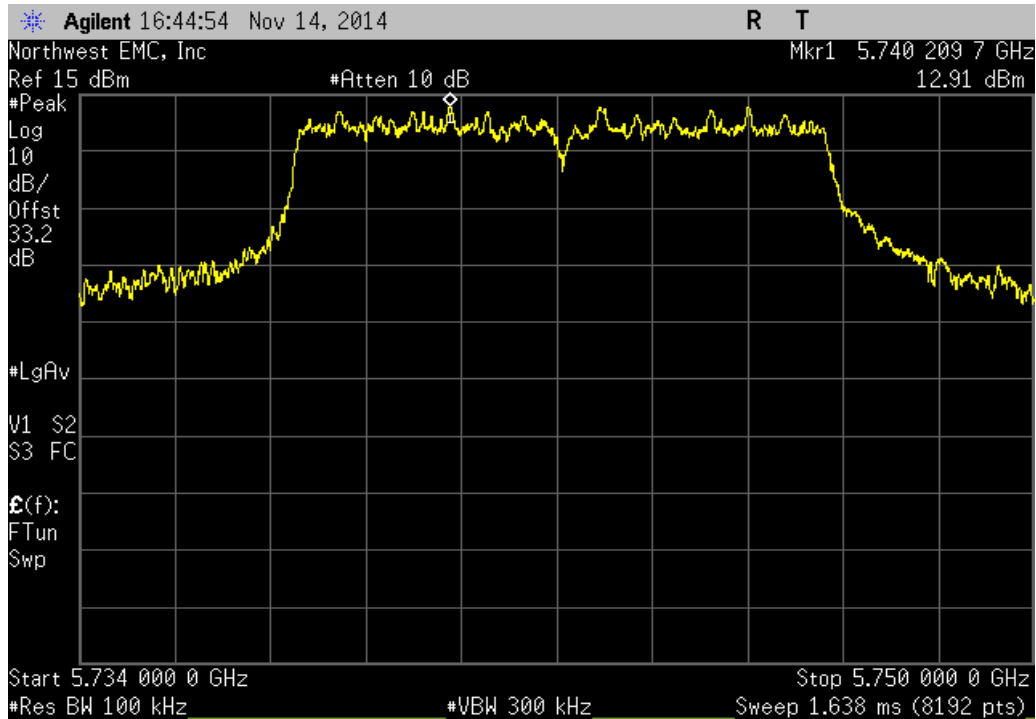
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5829MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-39.3	-20	Pass	



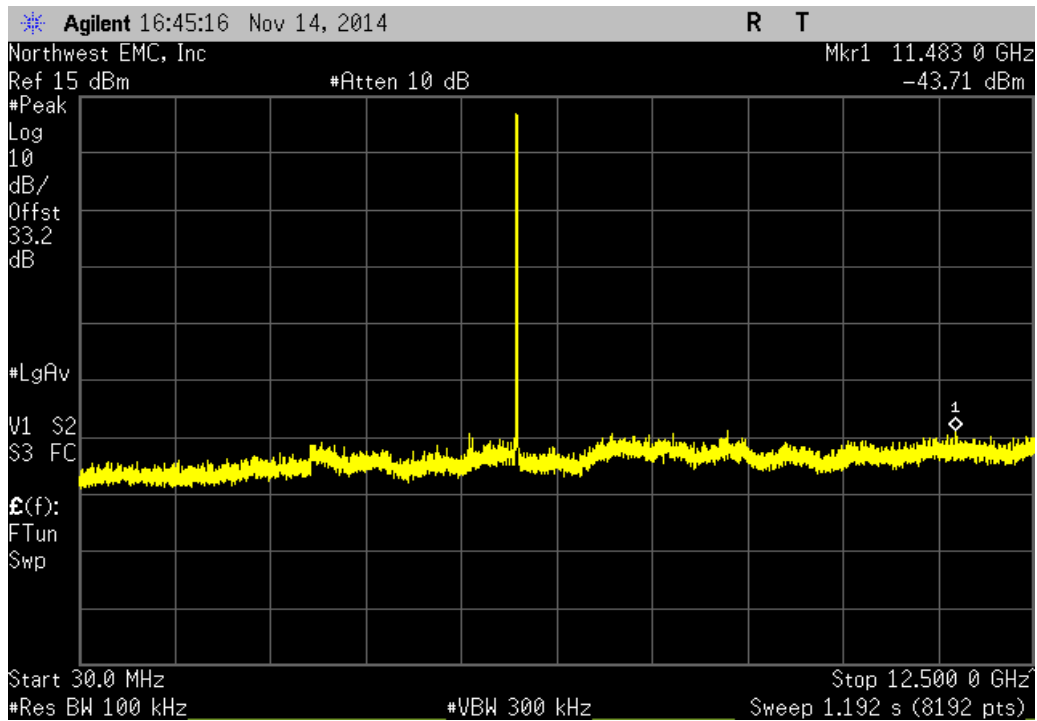
Chain 3, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5829MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
32 GHz - 40 GHz	-30.55	-20	Pass



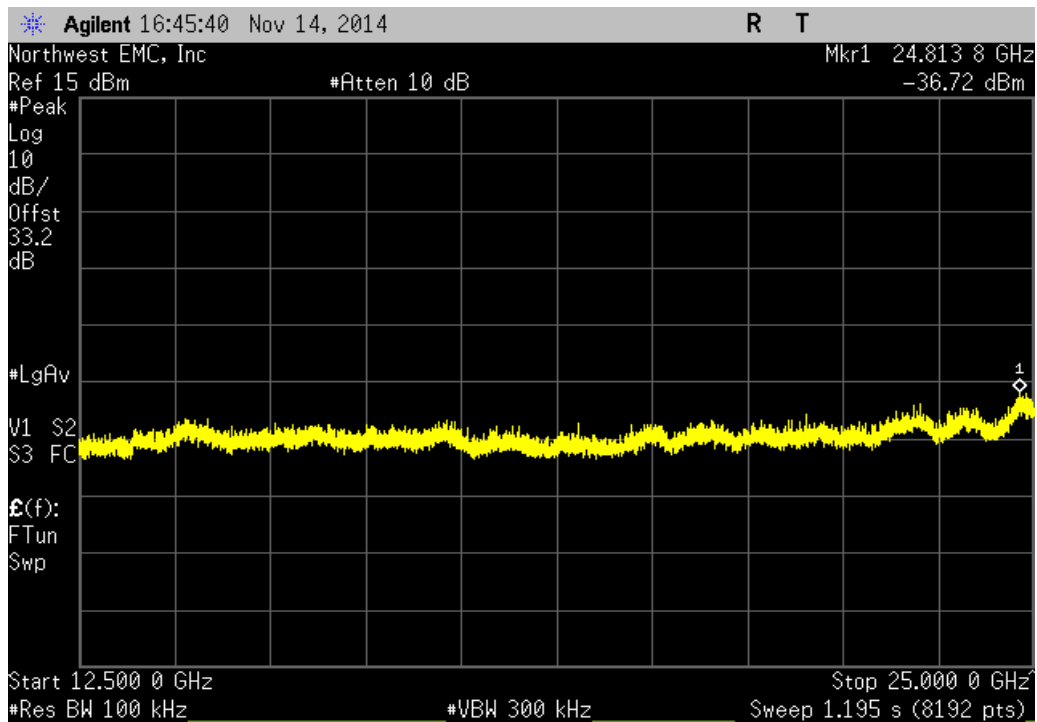
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5742MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	N/A	N/A	N/A



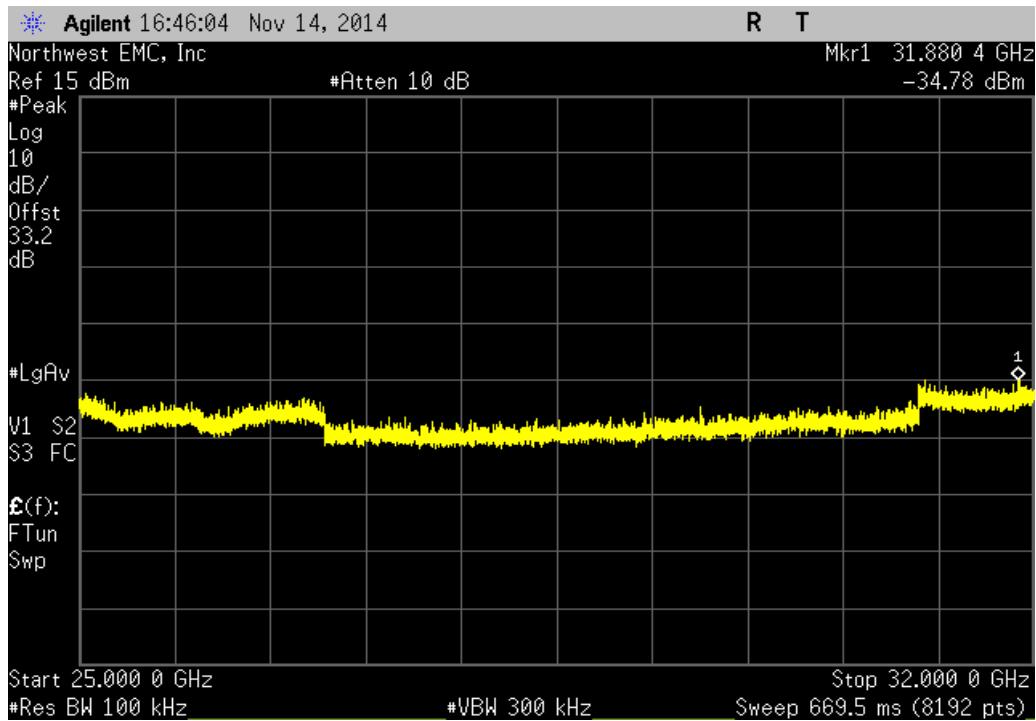
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5742MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-56.62	-20	Pass	



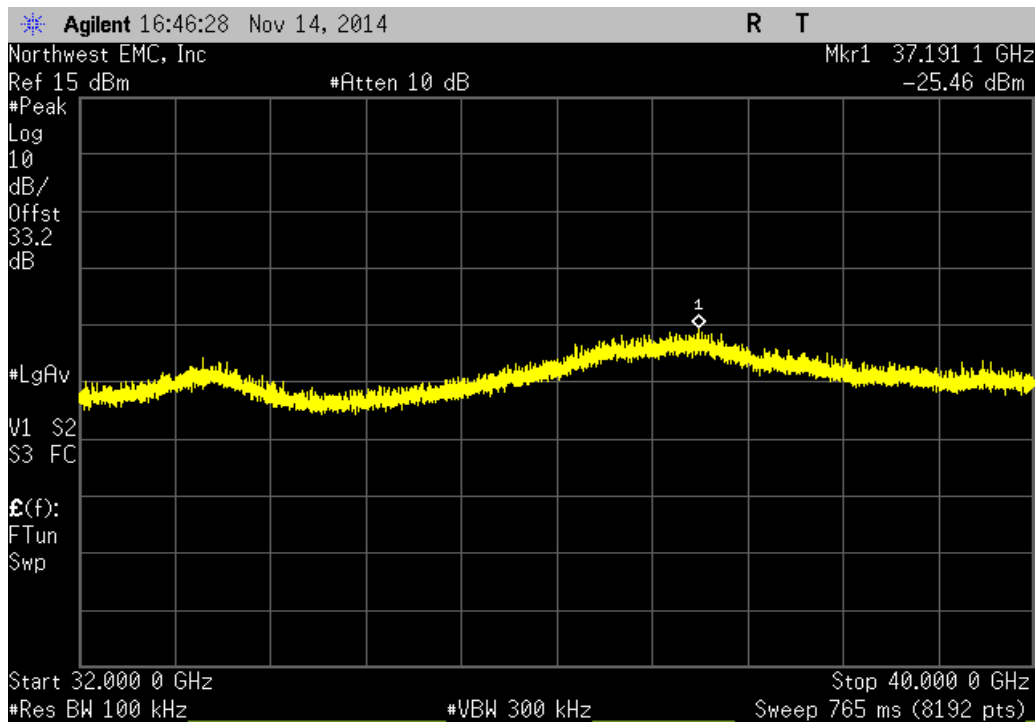
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5742MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-49.63	-20	Pass	



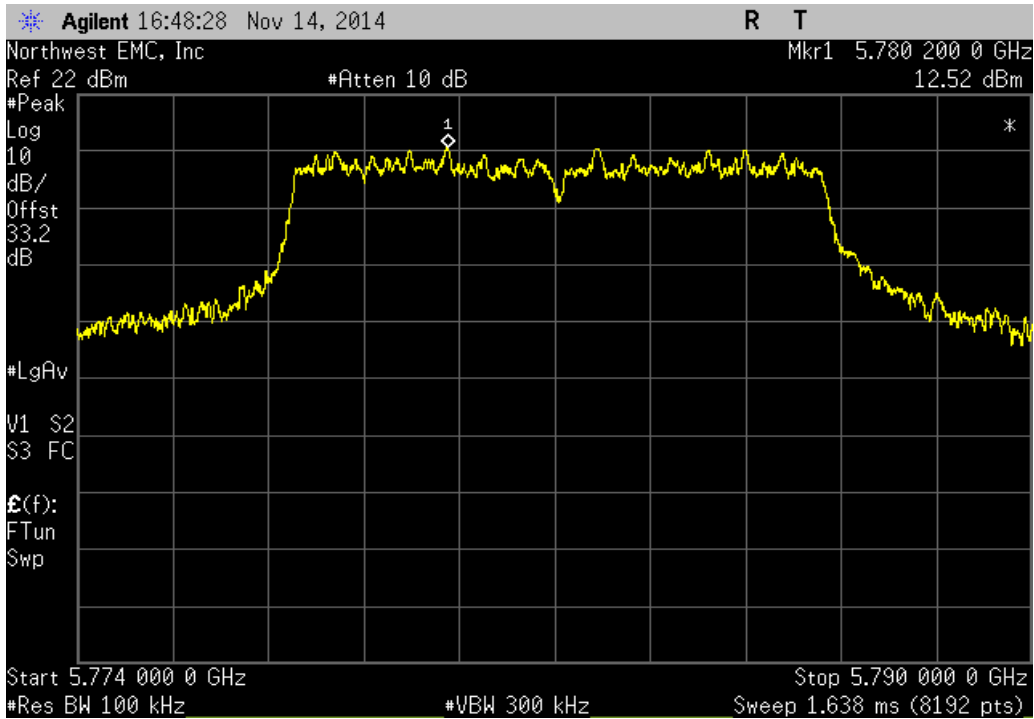
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Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-47.7	-20	Pass	



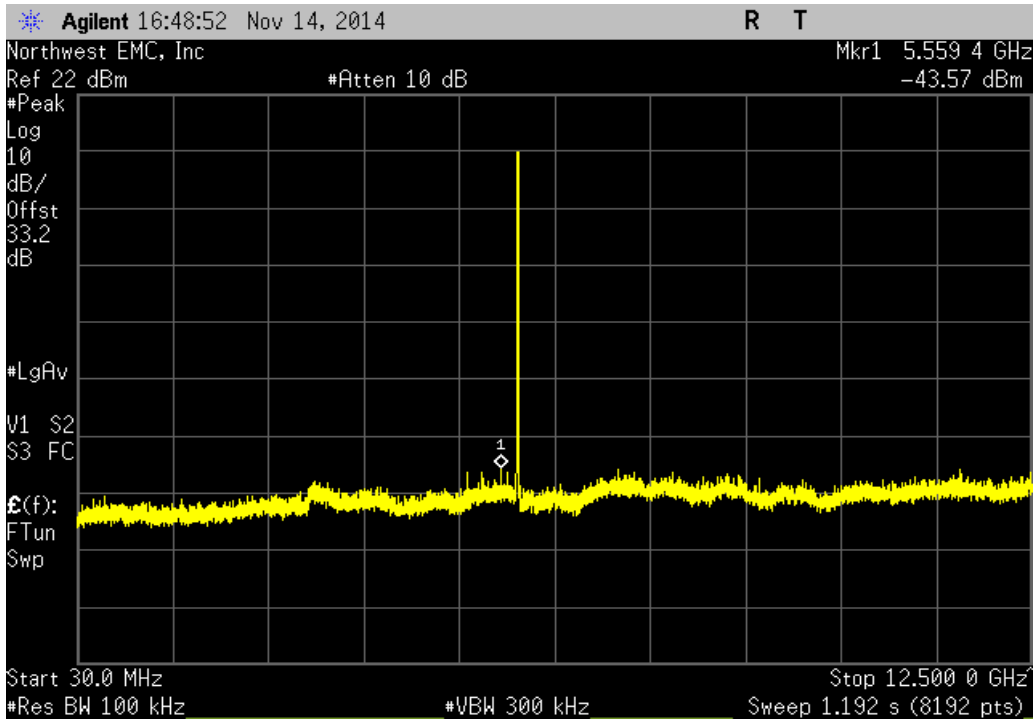
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 5742MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-38.37	-20	Pass	



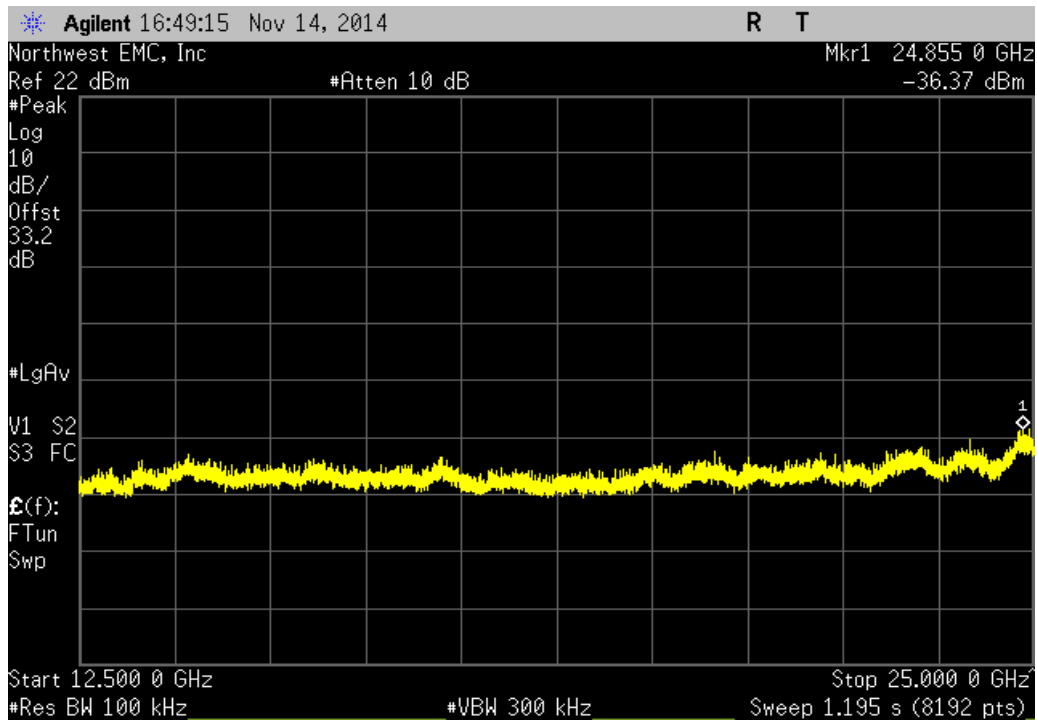
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5782MHz						
Frequency Range		Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental		N/A	N/A	N/A		



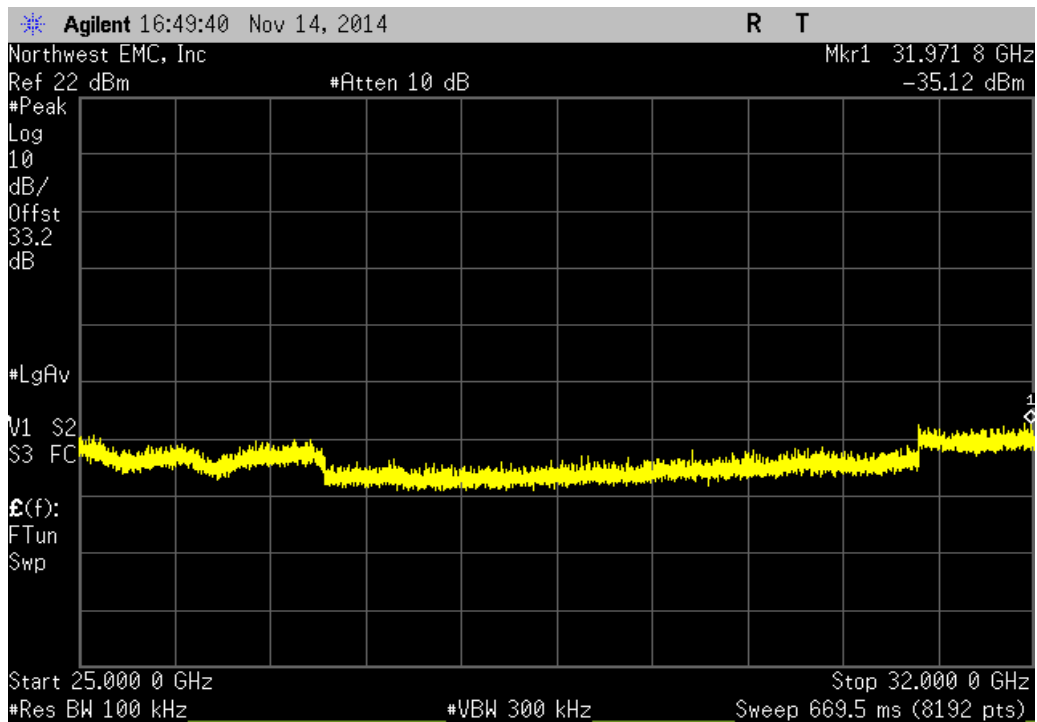
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5782MHz						
Frequency Range		Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz		-56.09	-20	Pass		



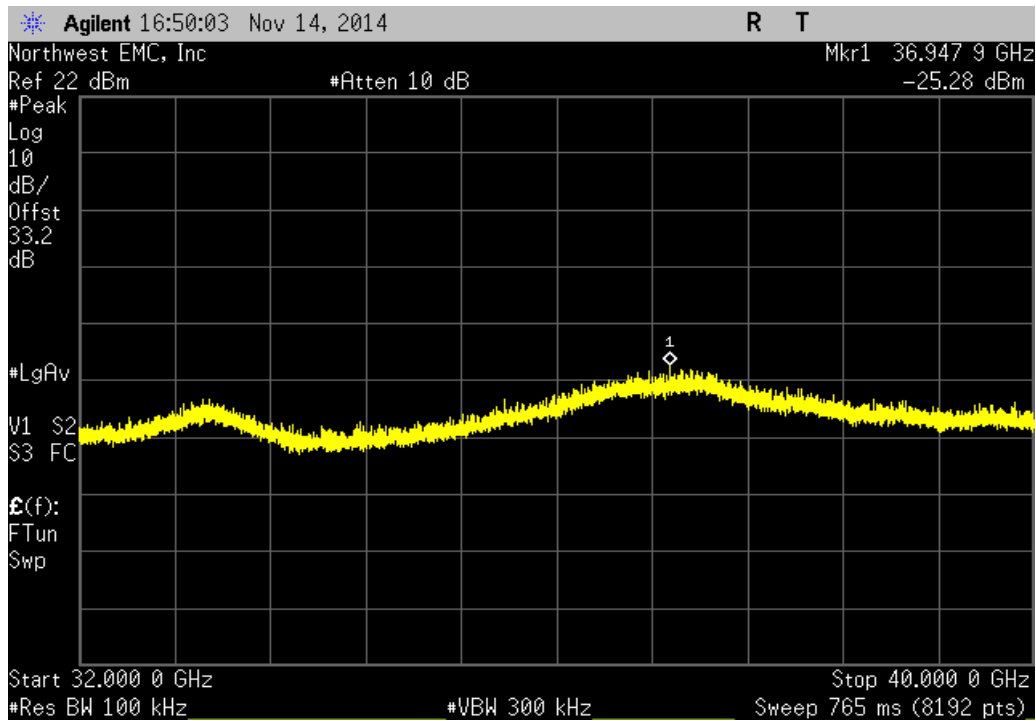
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5782MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-48.89	-20	Pass	



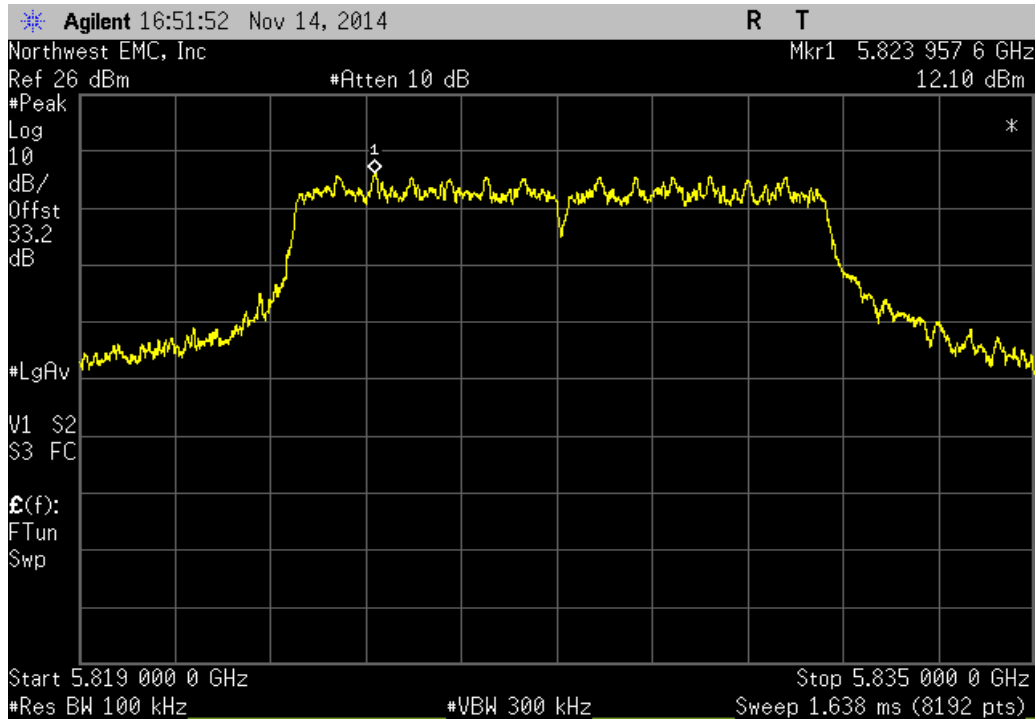
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5782MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-47.64	-20	Pass	



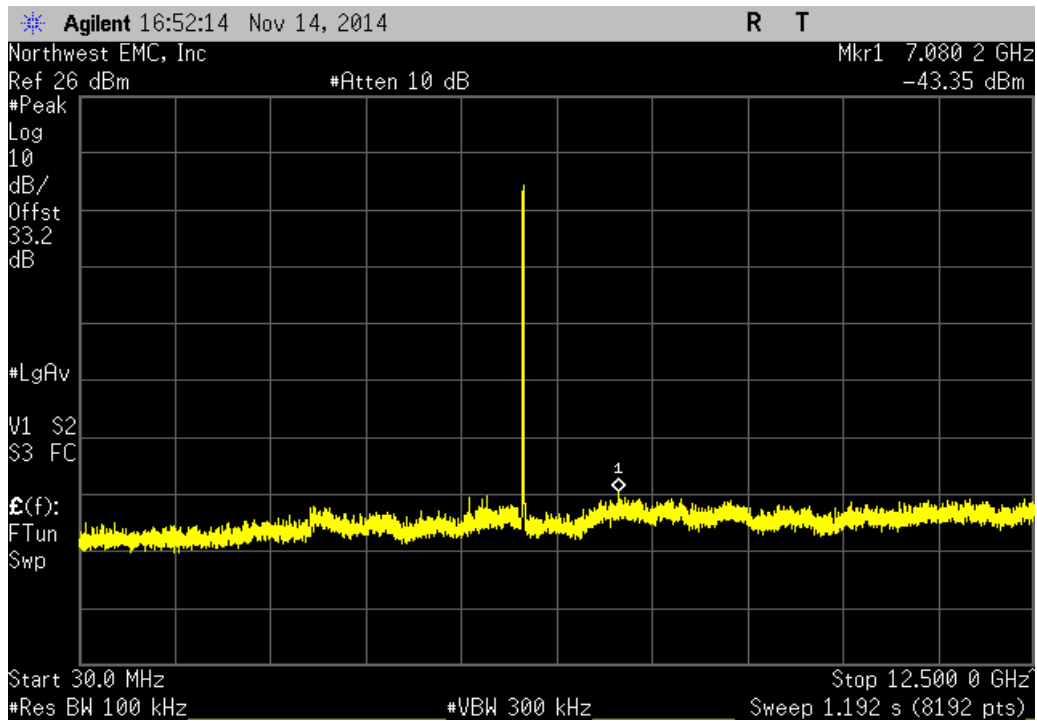
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, Mid Channel 5782MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
32 GHz - 40 GHz	-37.8	-20	Pass



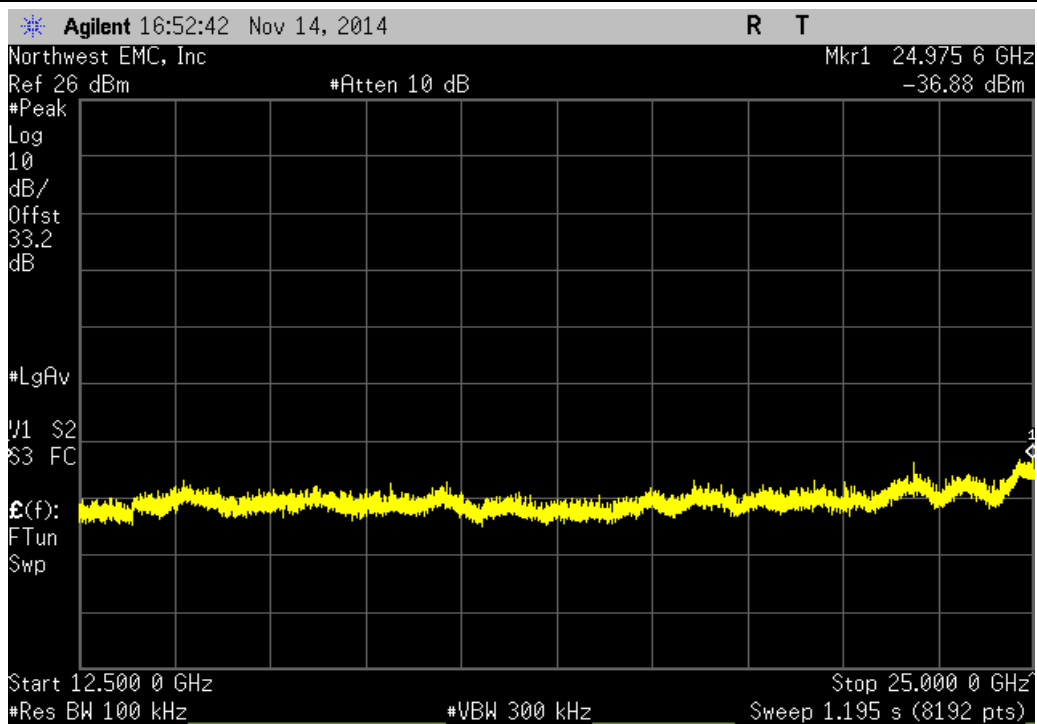
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5827MHz			
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	N/A	N/A	N/A



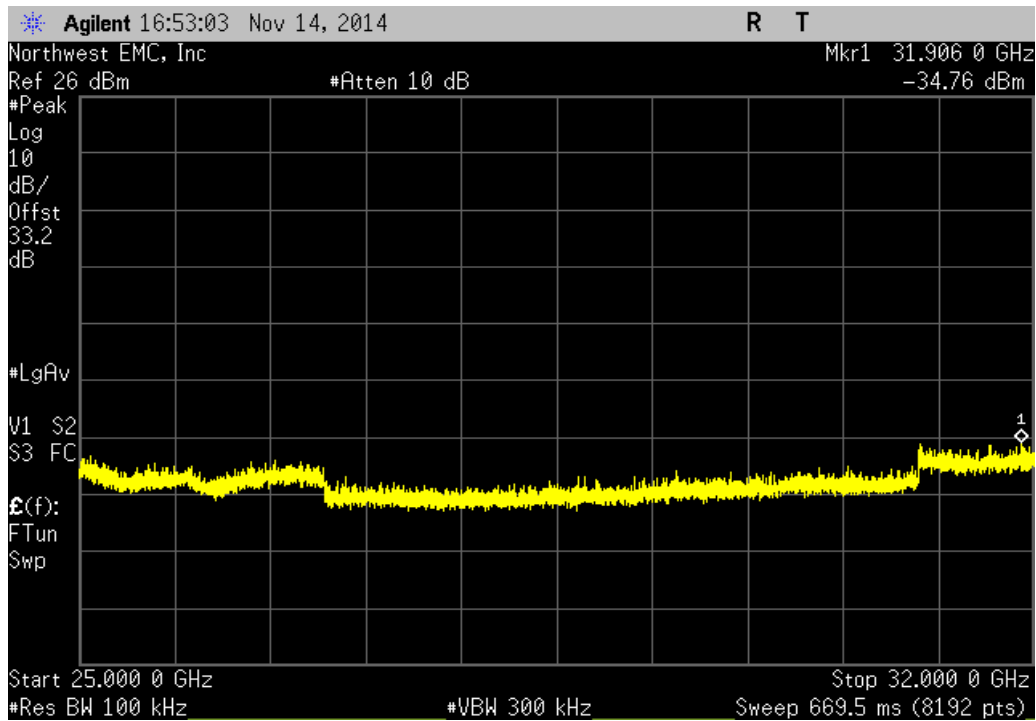
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5827MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	-55.45	-20	Pass	



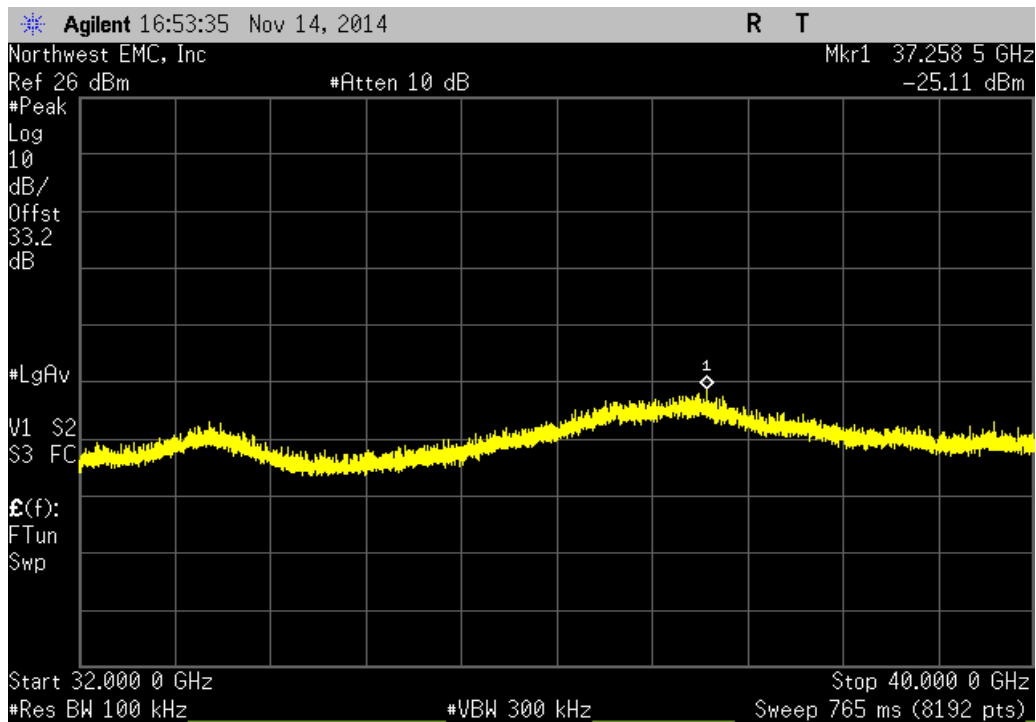
Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5827MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	-48.98	-20	Pass	



Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5827MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
25 GHz - 32 GHz	-46.87	-20	Pass	



Chain 3, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 5827MHz				
Frequency Range	Value (dBc)	Limit ≤ (dBc)	Result	
32 GHz - 40 GHz	-37.21	-20	Pass	



OCCUPIED BANDWIDTH - SISO

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.	Interval (mo)
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

EUT: WavePoint - 5GHz Radio (W5800-01)	Work Order: FREW0028
Serial Number: 00:07:E7:A0:01:F1	Date: 06/03/14
Customer: FreeWave Technologies, Inc.	Temperature: 22.6°C
Attendees: Dean Busch	Humidity: 43%
Project: None	Barometric Pres.: 1018.7
Tested by: Brandon Hobbs, Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS
An additional 10dB 5watt attenuator was used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

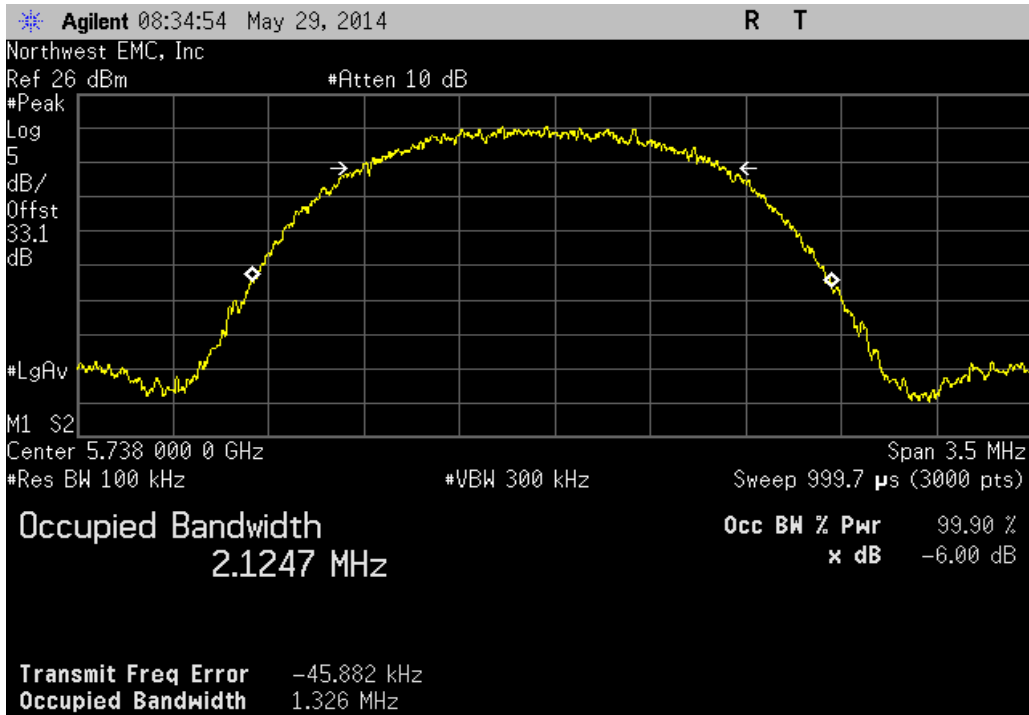
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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Chain 1	Value	Limit	Result
5725 MHz - 5825 MHz Band			
2.5 MHz			
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 5738 MHz	1.326 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	1.314 MHz	> 500 kHz	Pass
High Channel 5831 MHz	1.301 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 5738 MHz	1.319 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	1.25 MHz	> 500 kHz	Pass
High Channel 5831 MHz	1.319 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 5738 MHz	1.292 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	1.314 MHz	> 500 kHz	Pass
High Channel 5831 MHz	1.313 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5738 MHz	2.199 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.208 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.212 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5738 MHz	2.229 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.188 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.228 MHz	> 500 kHz	Pass
5 MHz			
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 5739 MHz	2.467 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	2.41 MHz	> 500 kHz	Pass
High Channel 5829 MHz	2.551 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 5739 MHz	2.462 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	2.539 MHz	> 500 kHz	Pass
High Channel 5829 MHz	2.545 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 5739 MHz	2.64 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	2.63 MHz	> 500 kHz	Pass
High Channel 5829 MHz	2.497 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5739 MHz	4.419 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.423 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.407 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5739 MHz	4.464 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.509 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.409 MHz	> 500 kHz	Pass
10 MHz			
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 5742 MHz	5.082 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	5.052 MHz	> 500 kHz	Pass
High Channel 5827 MHz	4.966 MHz	> 500 kHz	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 5742 MHz	8.263 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	5.148 MHz	> 500 kHz	Pass
High Channel 5827 MHz	4.89 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 5742 MHz	4.887 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	5.119 MHz	> 500 kHz	Pass
High Channel 5827 MHz	5.077 MHz	> 500 kHz	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5742 MHz	8.812 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.795 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.813 MHz	> 500 kHz	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5742 MHz	8.81 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.81 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.761 MHz	> 500 kHz	Pass

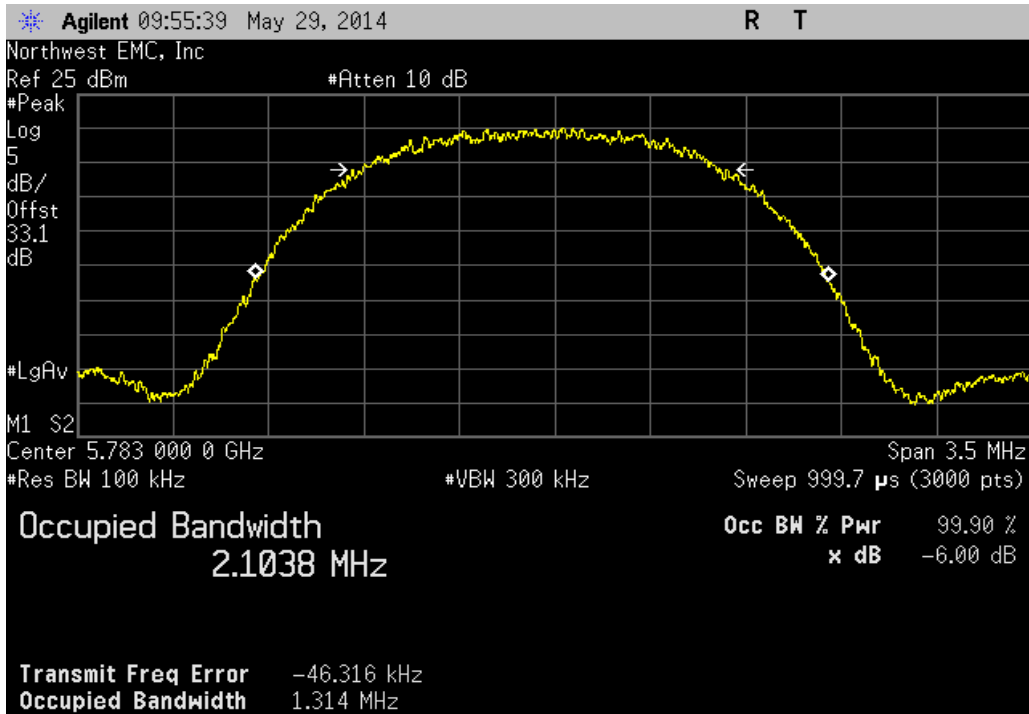
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5738 MHz

	Value	Limit	Result
	1.326 MHz	> 500 kHz	Pass



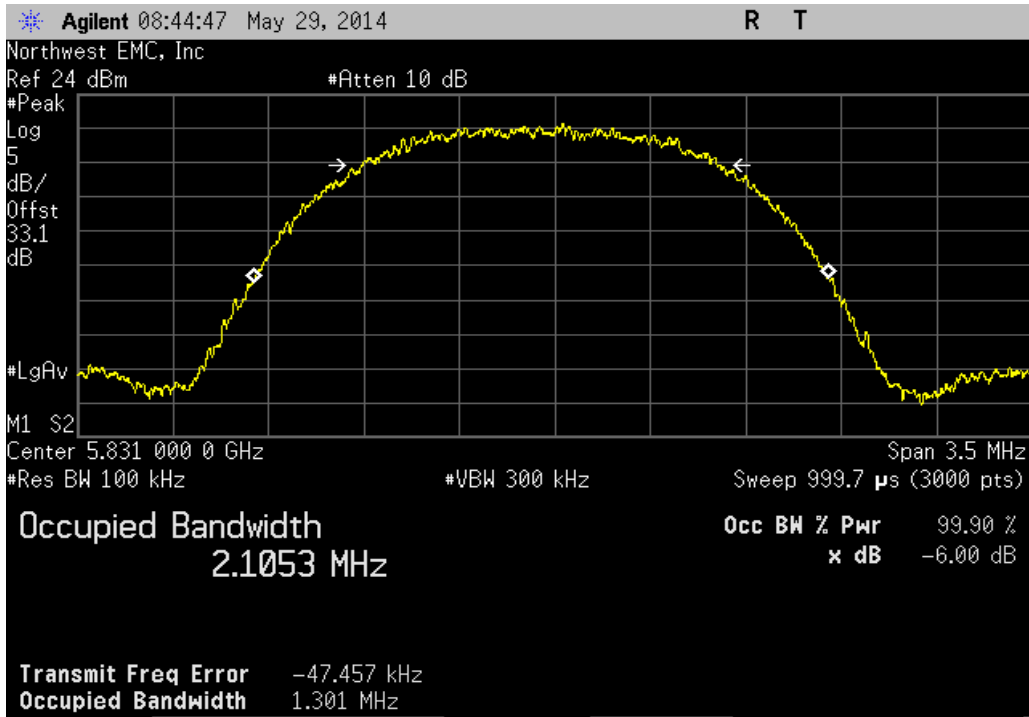
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5783 MHz

	Value	Limit	Result
	1.314 MHz	> 500 kHz	Pass



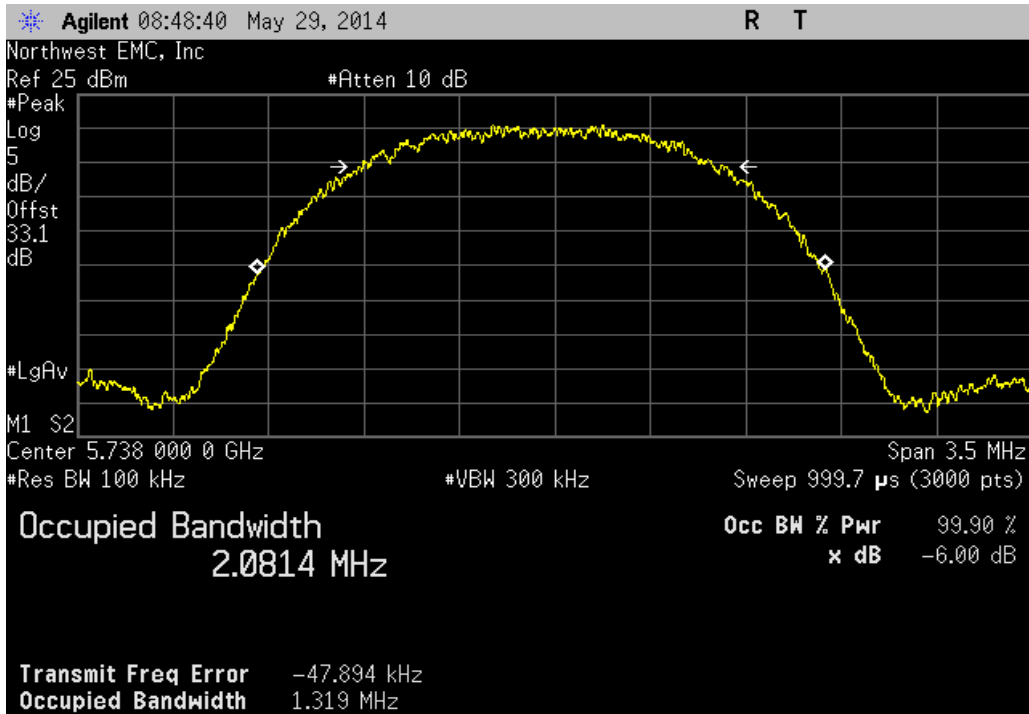
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5831 MHz

	Value	Limit	Result
	1.301 MHz	> 500 kHz	Pass



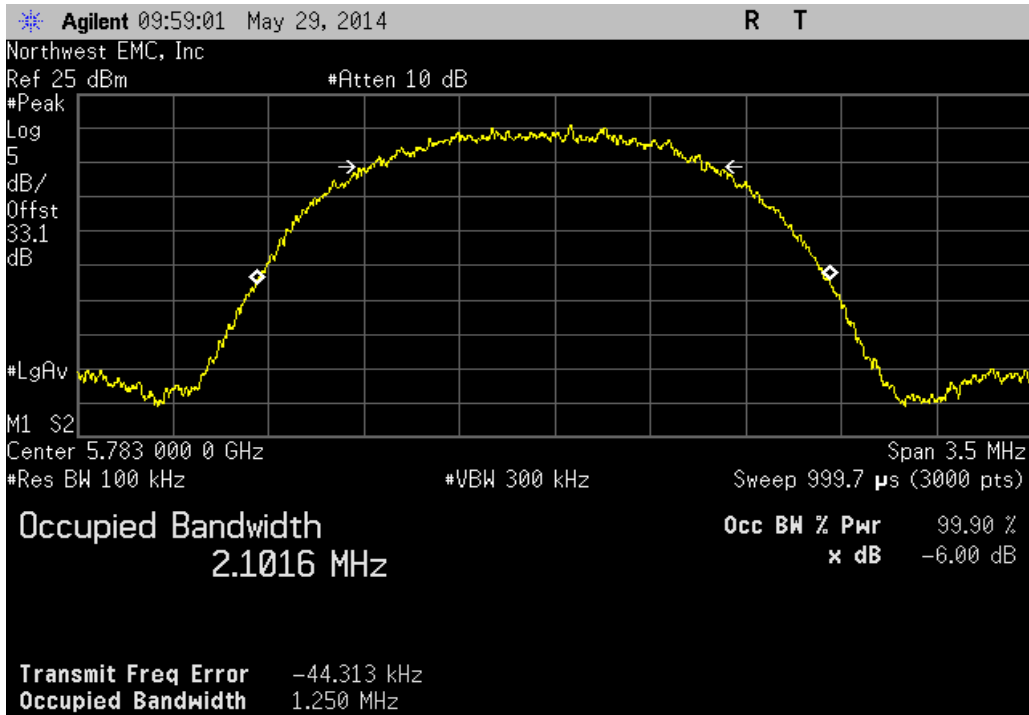
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5738 MHz

	Value	Limit	Result
	1.319 MHz	> 500 kHz	Pass



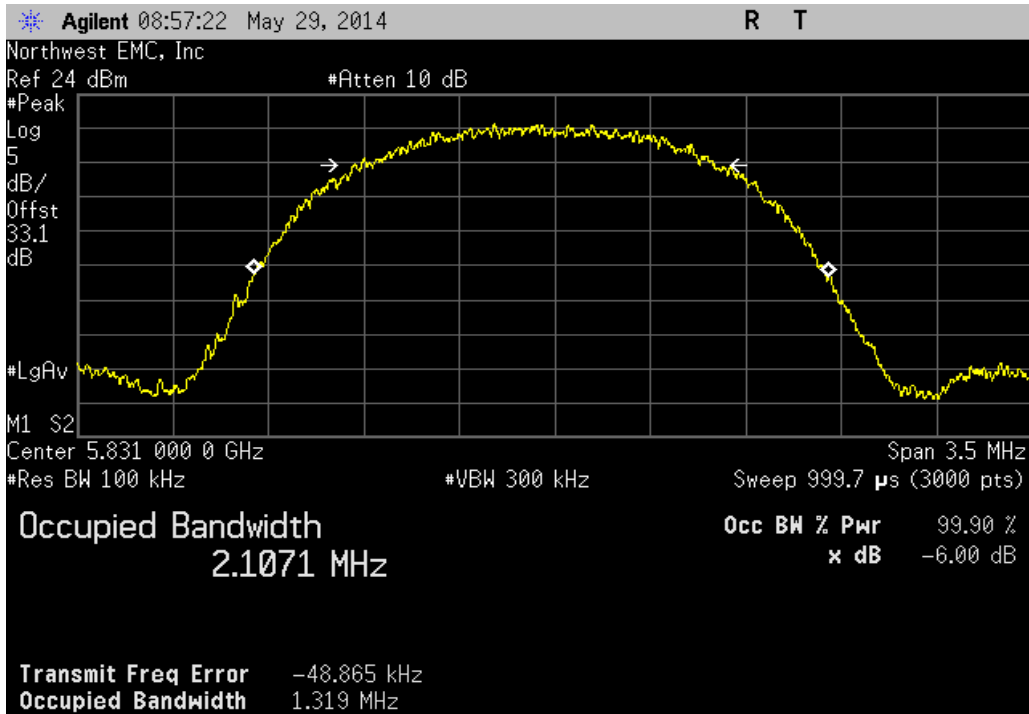
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5783 MHz

	Value	Limit	Result
	1.25 MHz	> 500 kHz	Pass



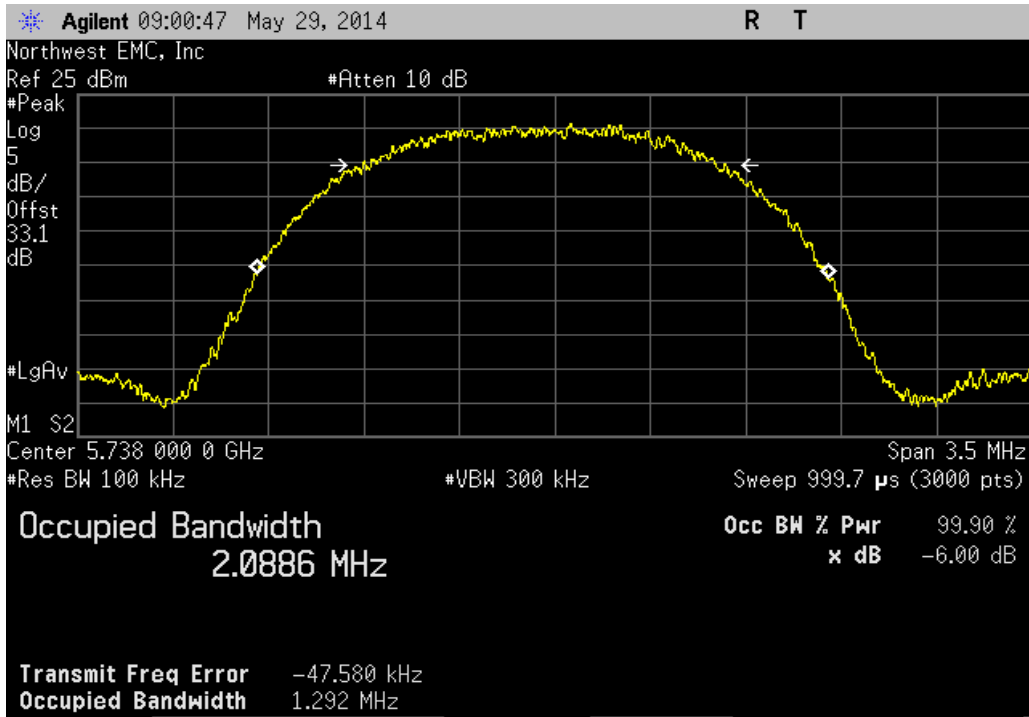
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5831 MHz

	Value	Limit	Result
	1.319 MHz	> 500 kHz	Pass



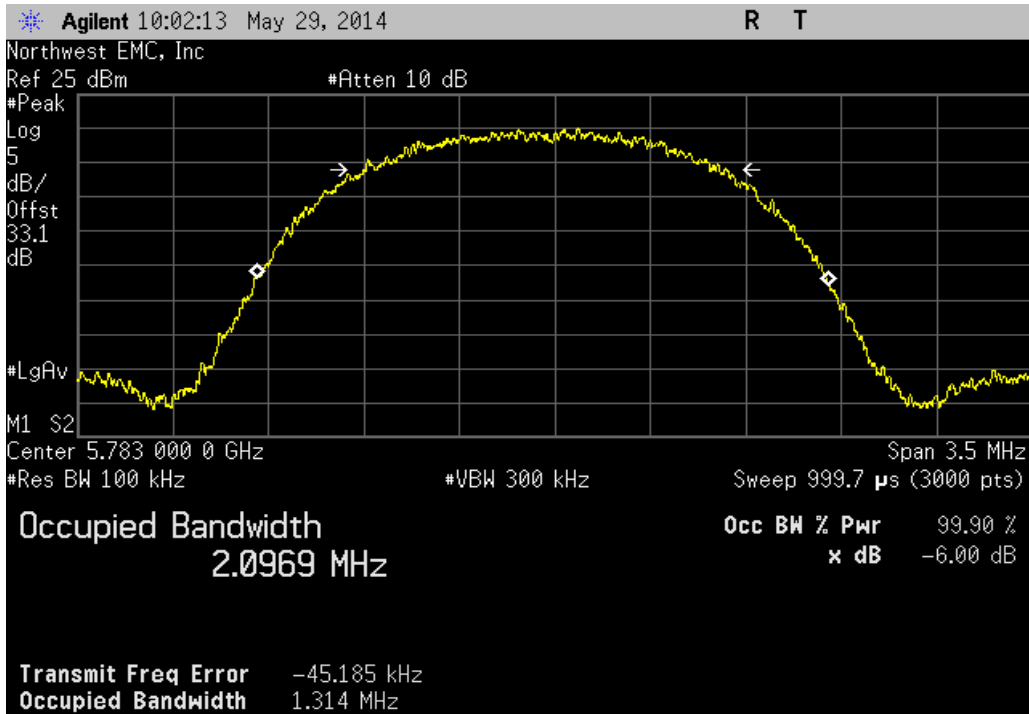
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5738 MHz

	Value	Limit	Result
	1.292 MHz	> 500 kHz	Pass



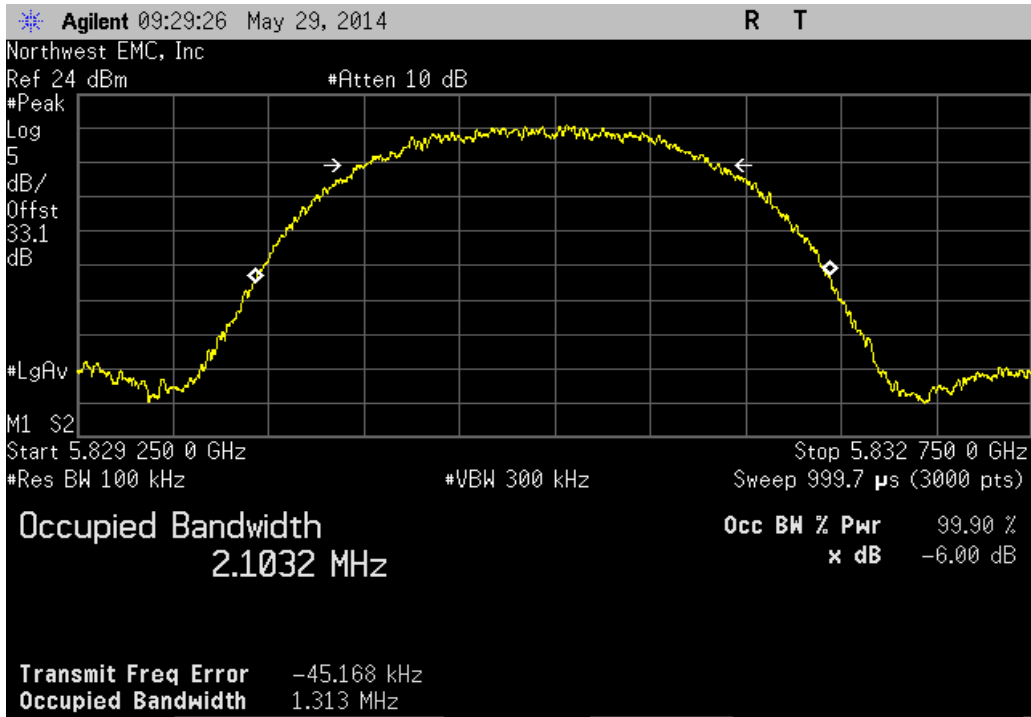
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5783 MHz

	Value	Limit	Result
	1.314 MHz	> 500 kHz	Pass



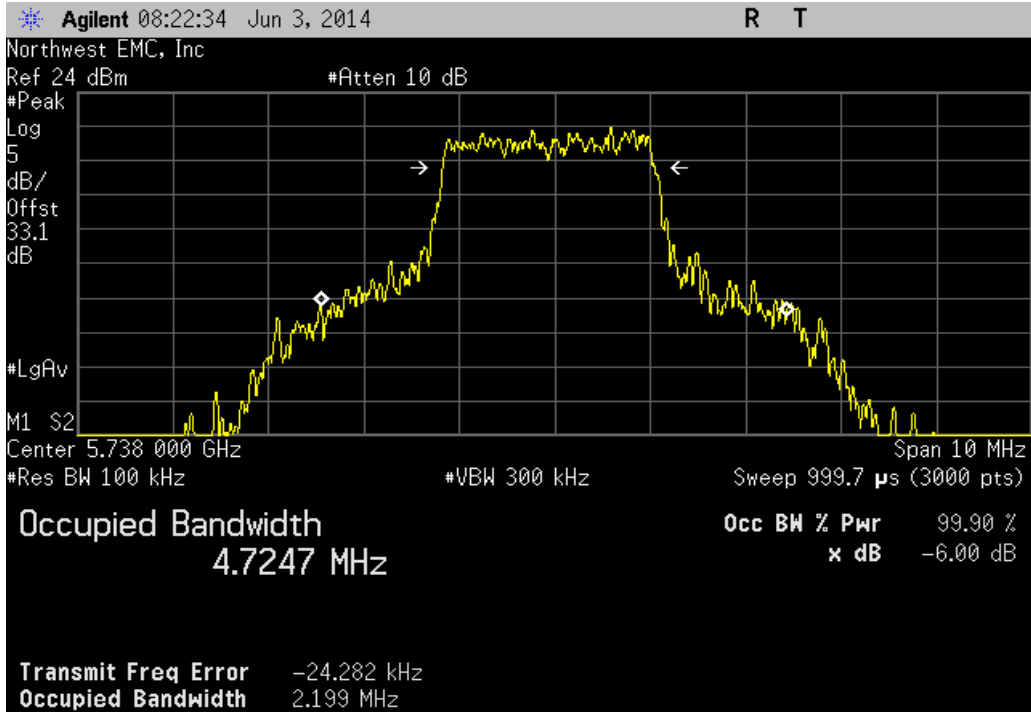
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5831 MHz

	Value	Limit	Result
	1.313 MHz	> 500 kHz	Pass



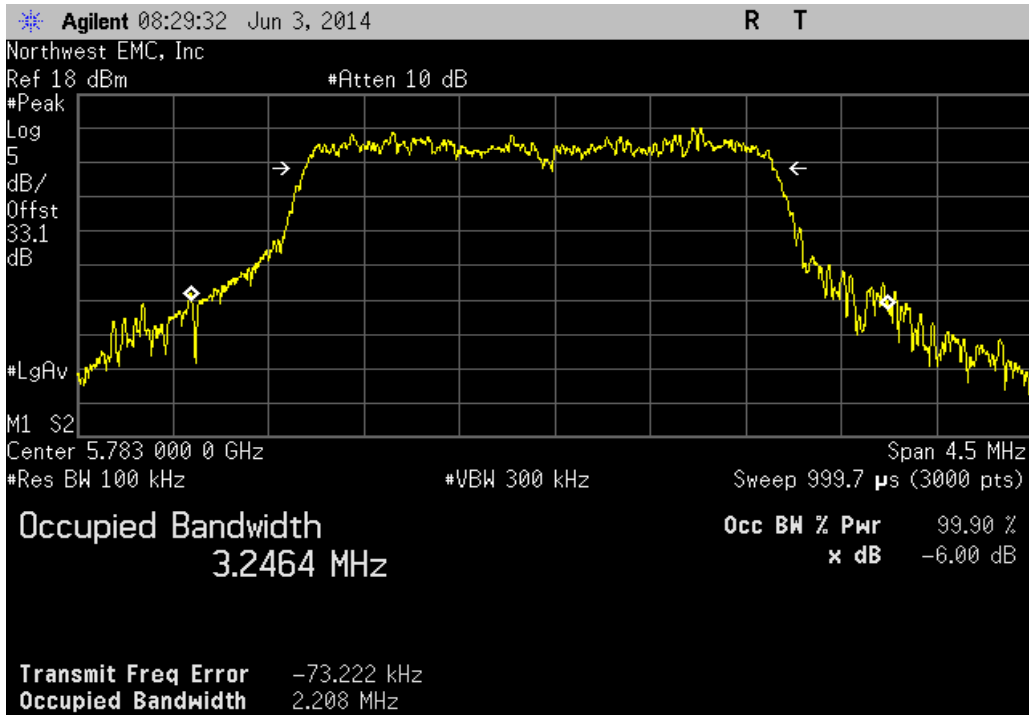
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

	Value	Limit	Result
	2.199 MHz	> 500 kHz	Pass



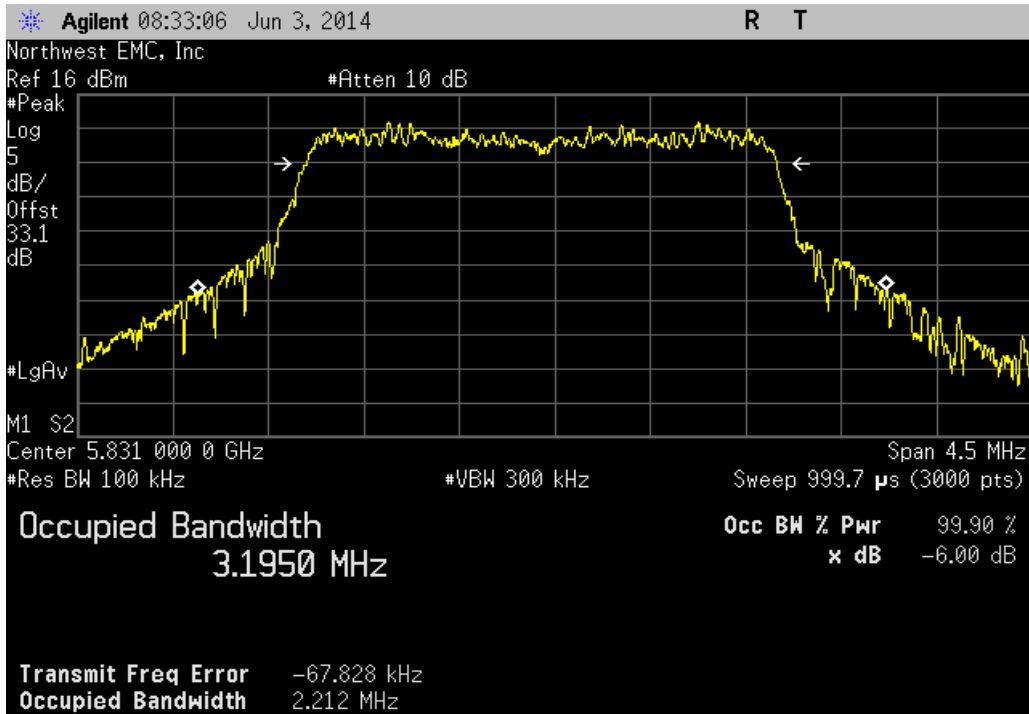
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 5783 MHz

	Value	Limit	Result
	2.208 MHz	> 500 kHz	Pass



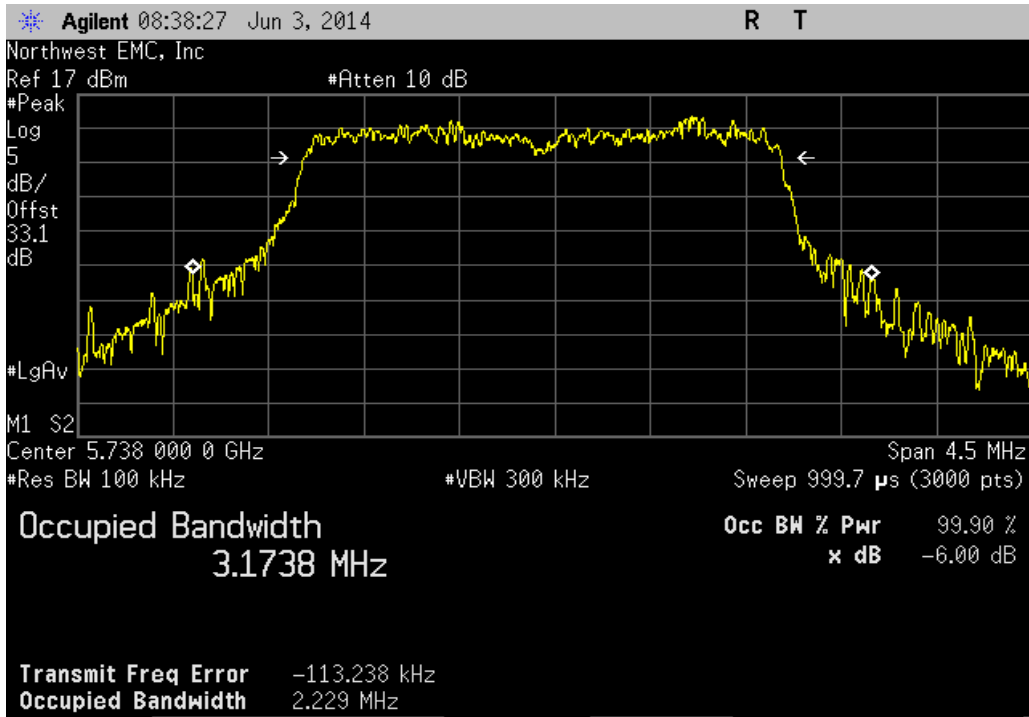
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 5831 MHz

	Value	Limit	Result
	2.212 MHz	> 500 kHz	Pass



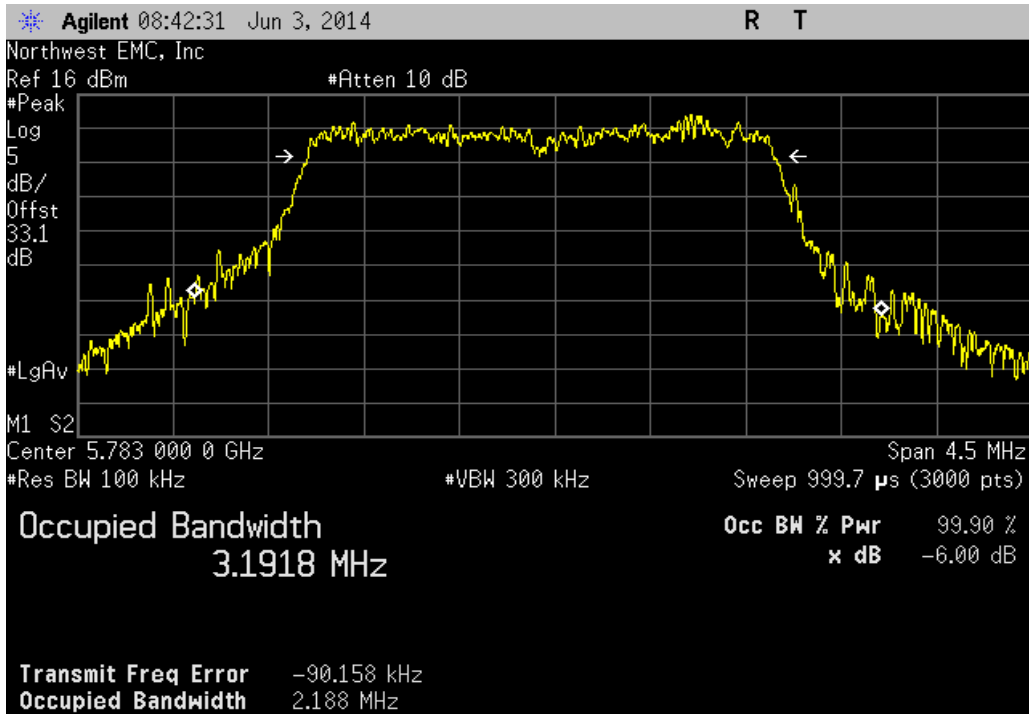
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz

	Value	Limit	Result
	2.229 MHz	> 500 kHz	Pass



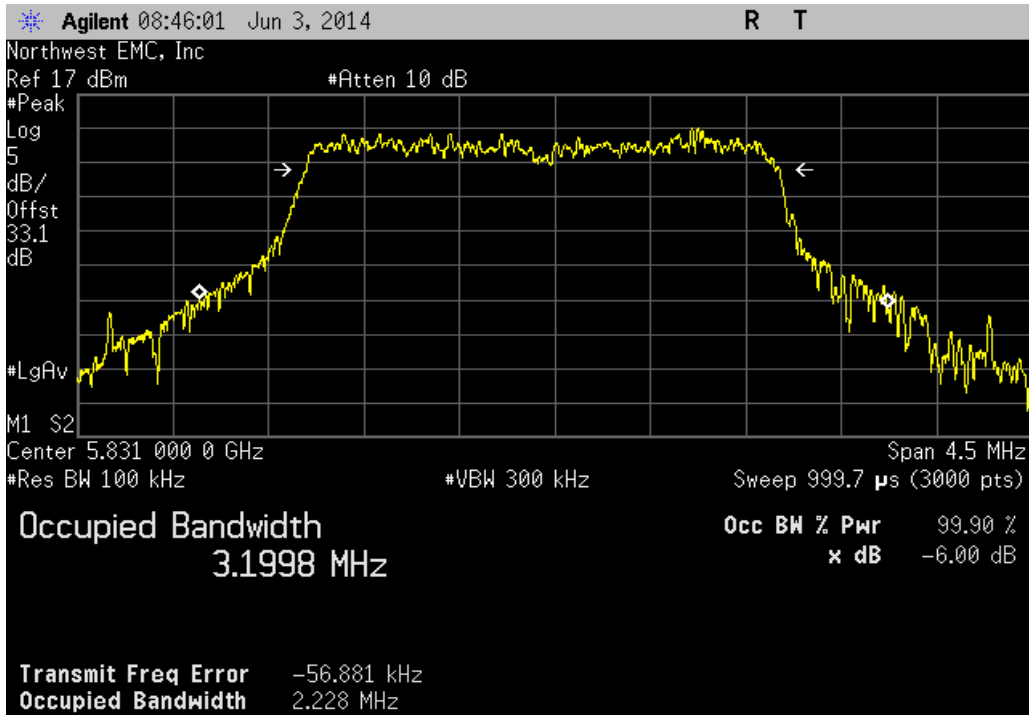
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz

	Value	Limit	Result
	2.188 MHz	> 500 kHz	Pass



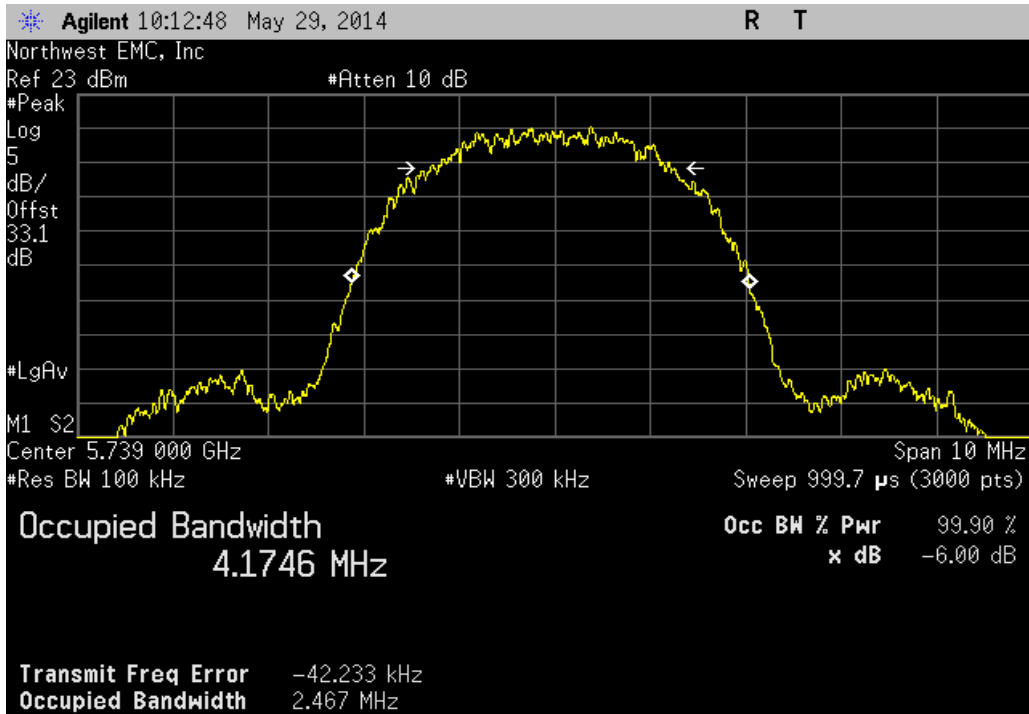
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz

	Value	Limit	Result
	2.228 MHz	> 500 kHz	Pass



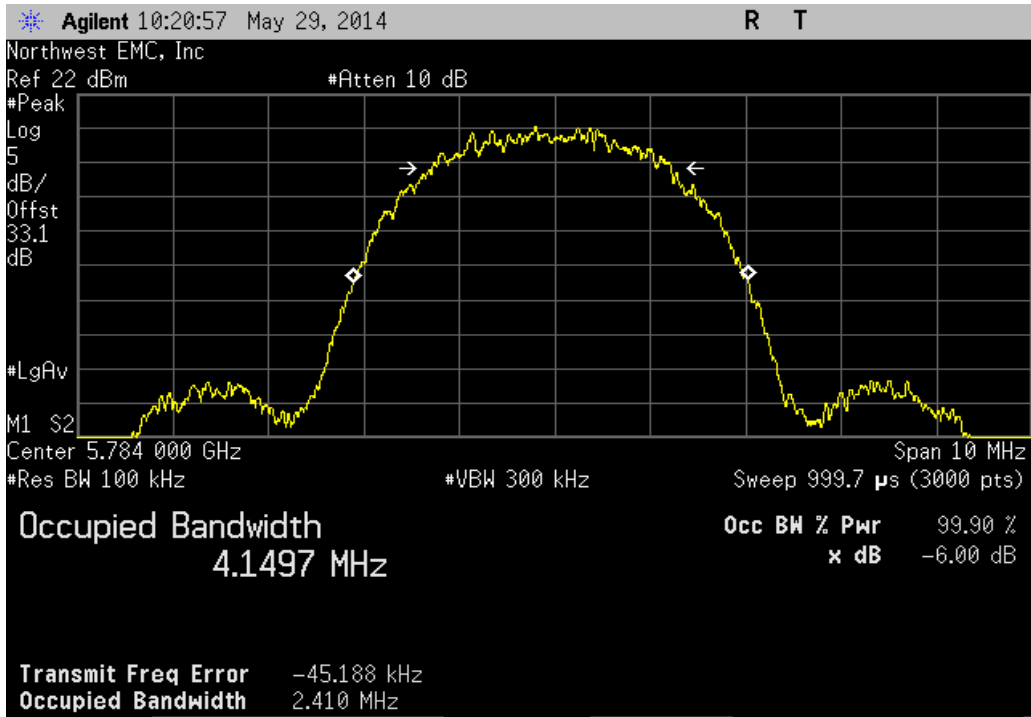
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5739 MHz

	Value	Limit	Result
	2.467 MHz	> 500 kHz	Pass



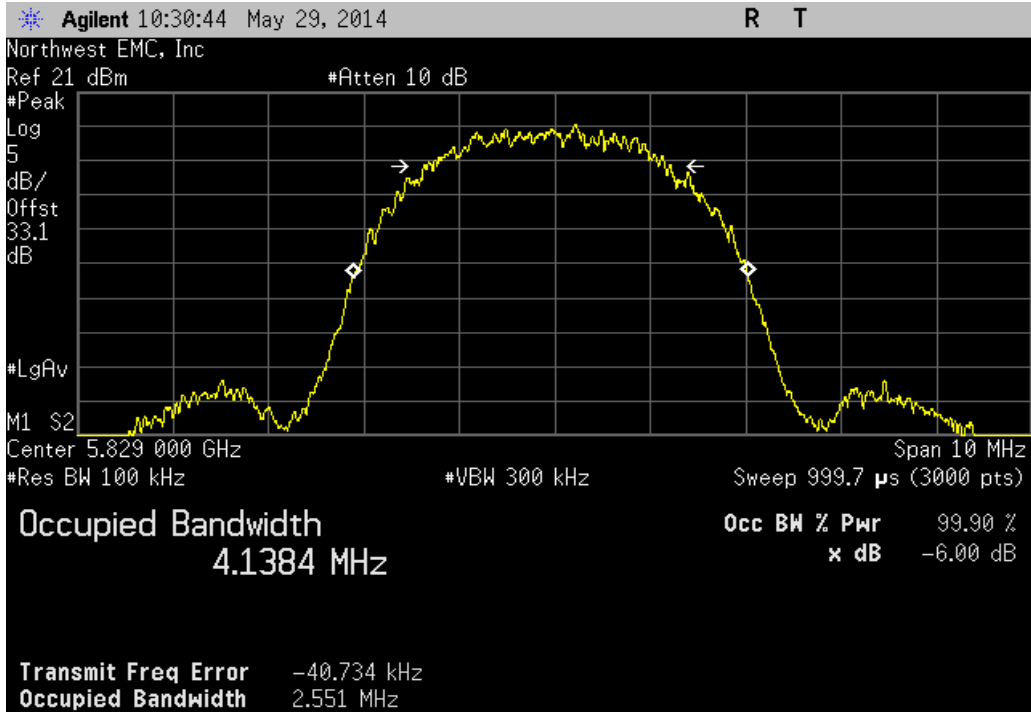
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5784 MHz

	Value	Limit	Result
	2.41 MHz	> 500 kHz	Pass



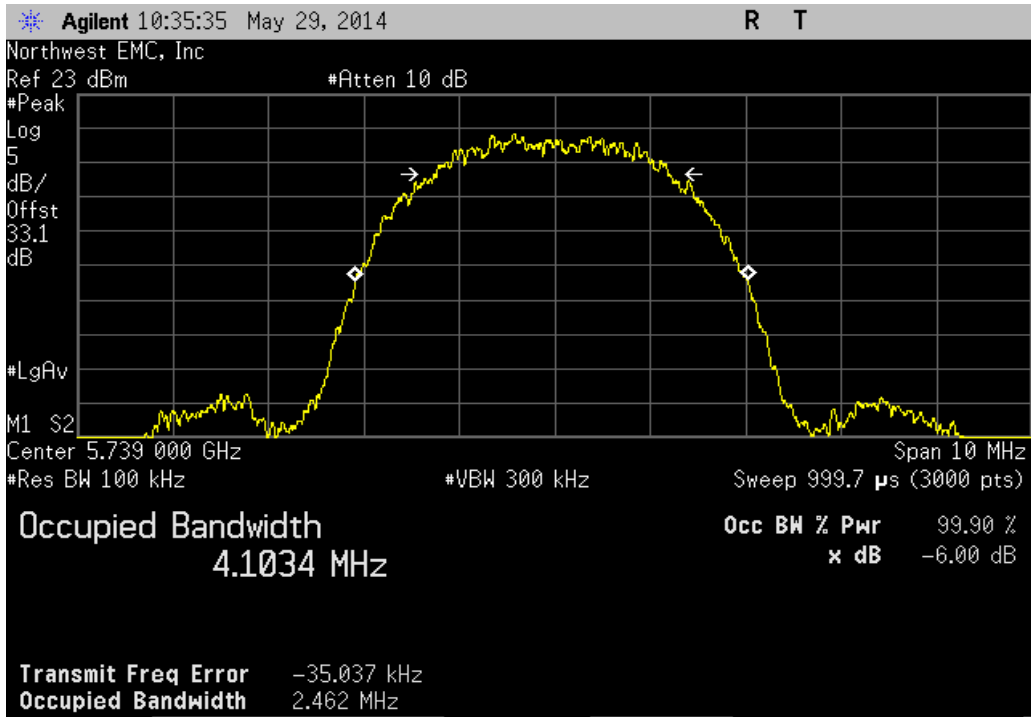
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5829 MHz

	Value	Limit	Result
	2.551 MHz	> 500 kHz	Pass



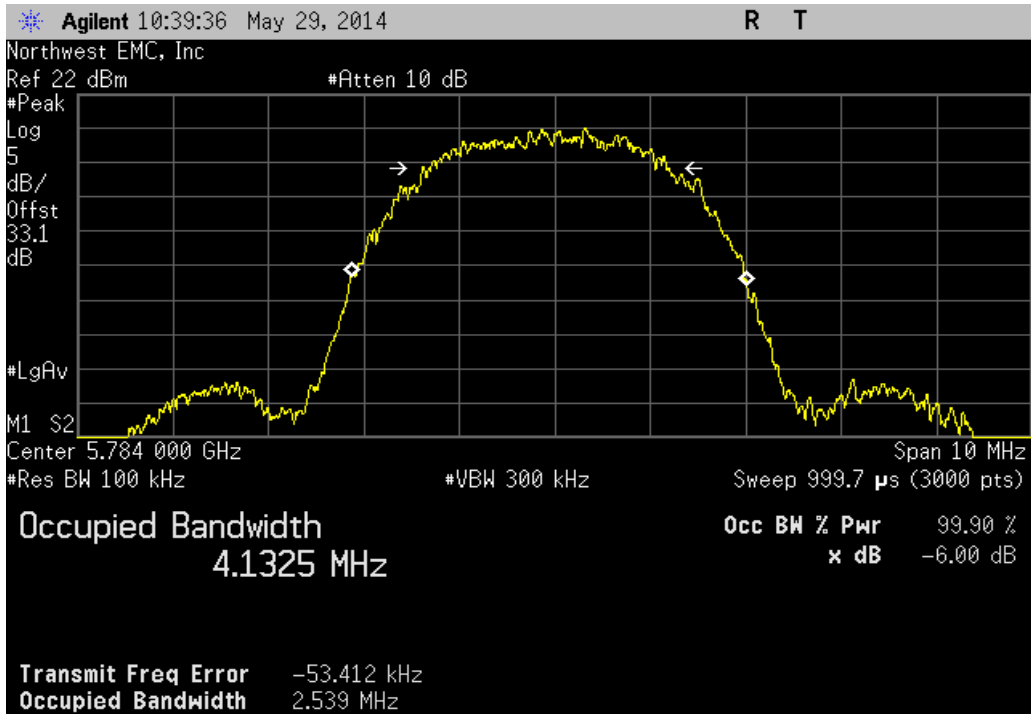
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5739 MHz

	Value	Limit	Result
	2.462 MHz	> 500 kHz	Pass



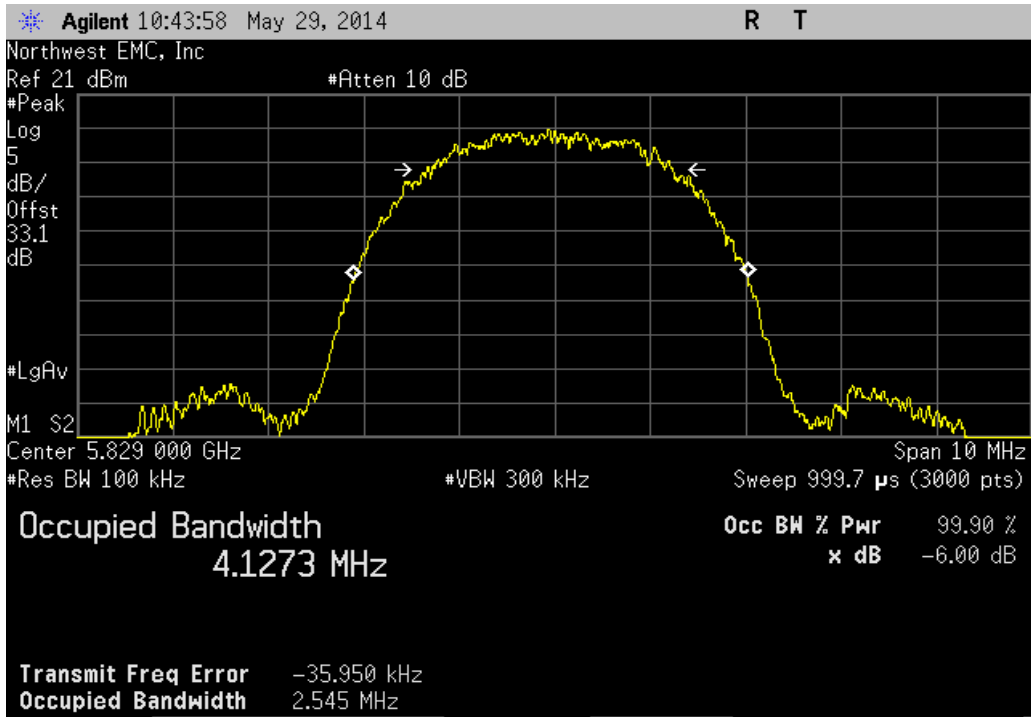
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5784 MHz

	Value	Limit	Result
	2.539 MHz	> 500 kHz	Pass



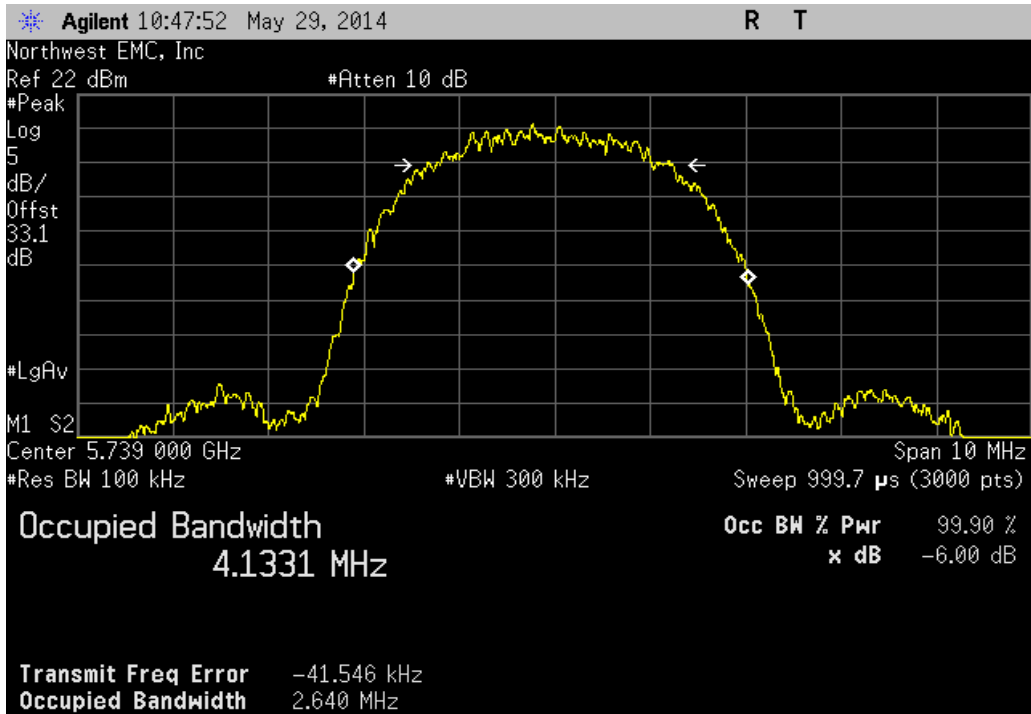
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5829 MHz

Value	Limit	Result
2.545 MHz	> 500 kHz	Pass



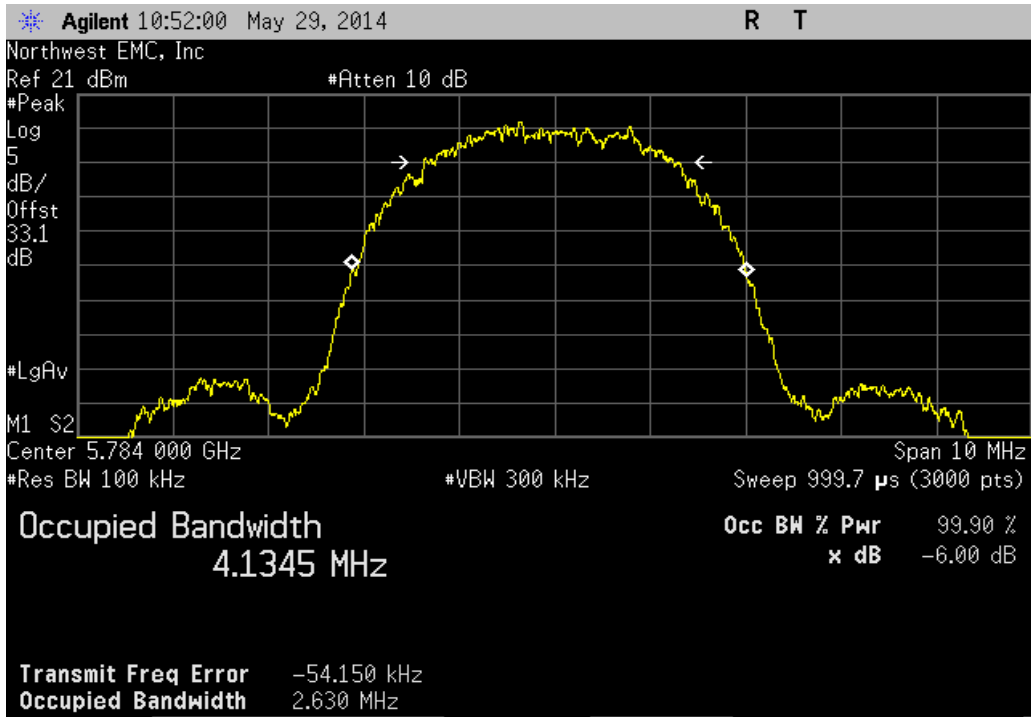
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5739 MHz

Value	Limit	Result
2.64 MHz	> 500 kHz	Pass



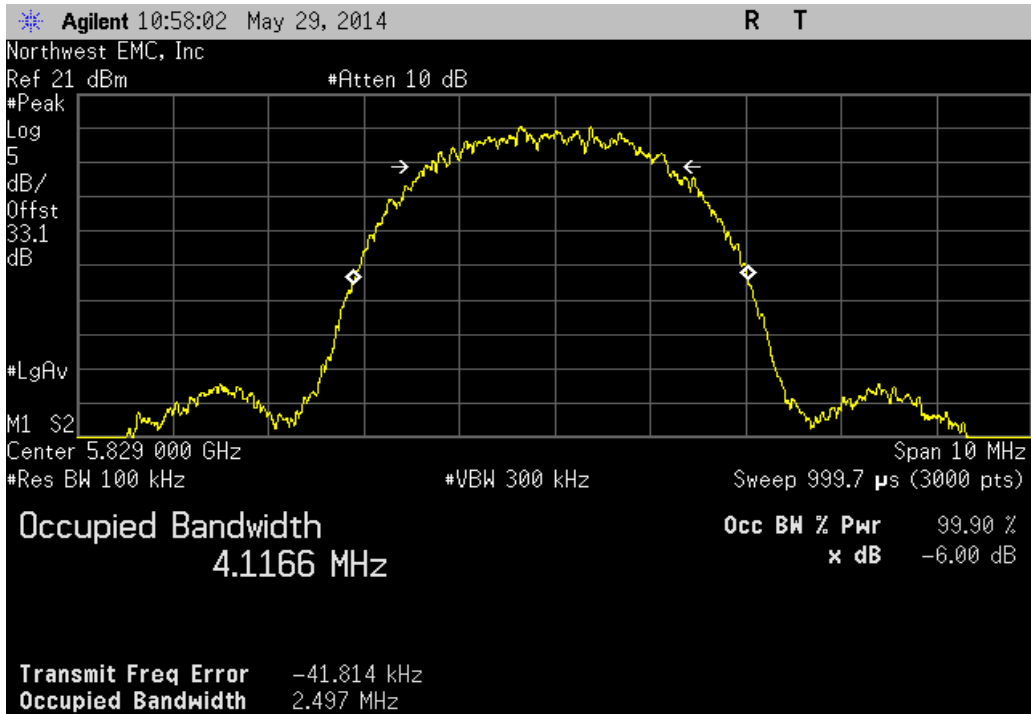
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5784 MHz

Value	Limit	Result
2.63 MHz	> 500 kHz	Pass



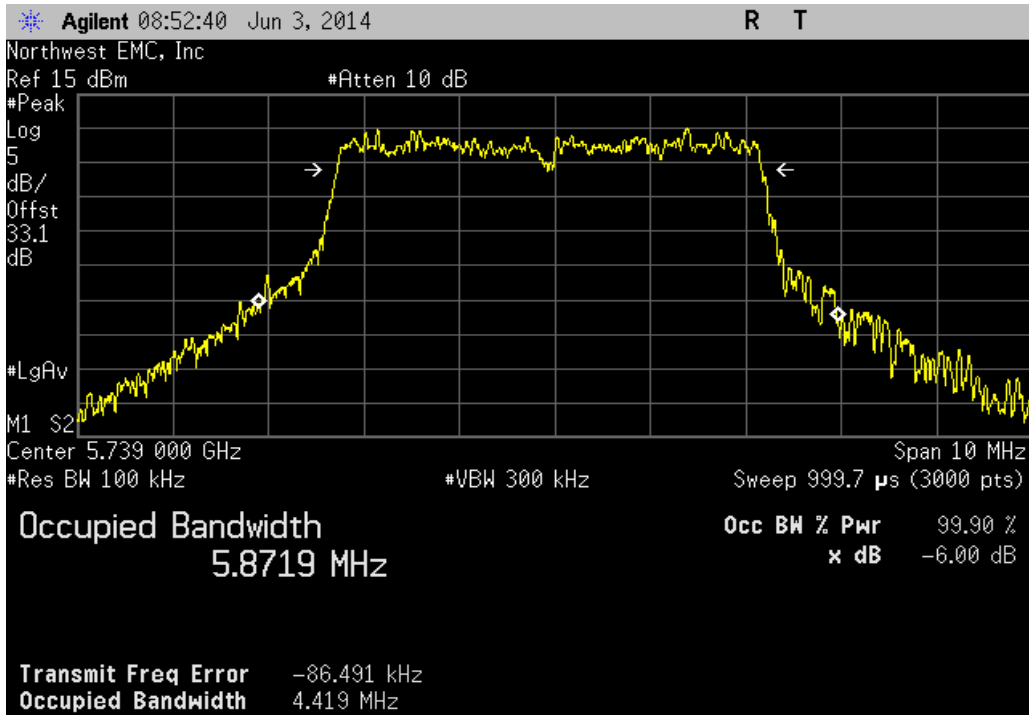
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5829 MHz

Value	Limit	Result
2.497 MHz	> 500 kHz	Pass



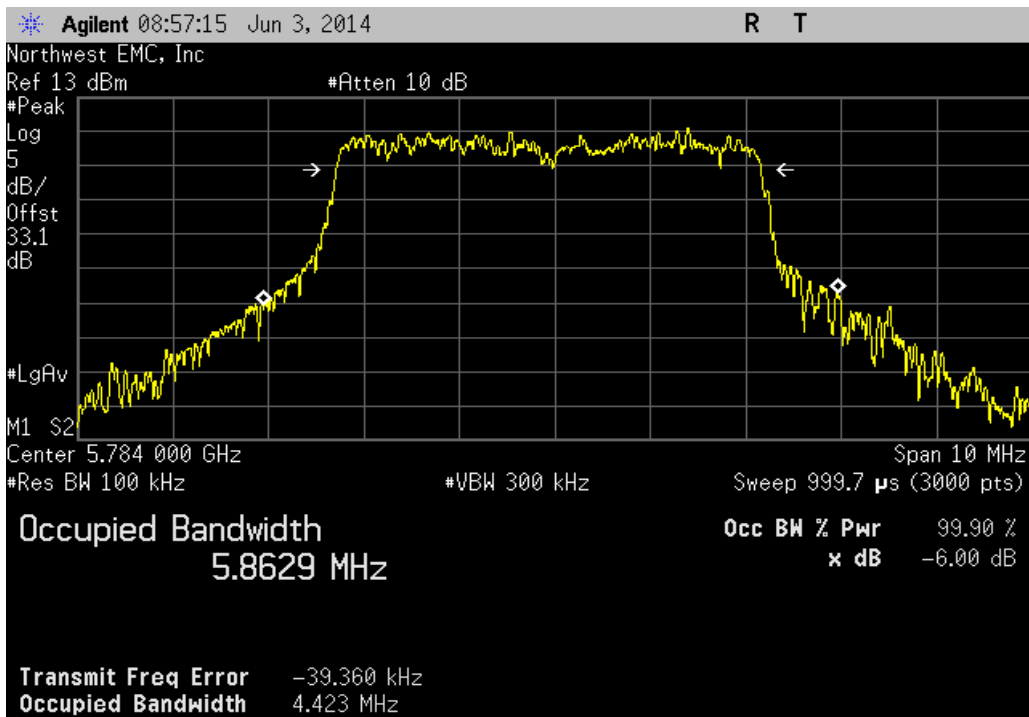
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 5739 MHz

	Value	Limit	Result
	4.419 MHz	> 500 kHz	Pass



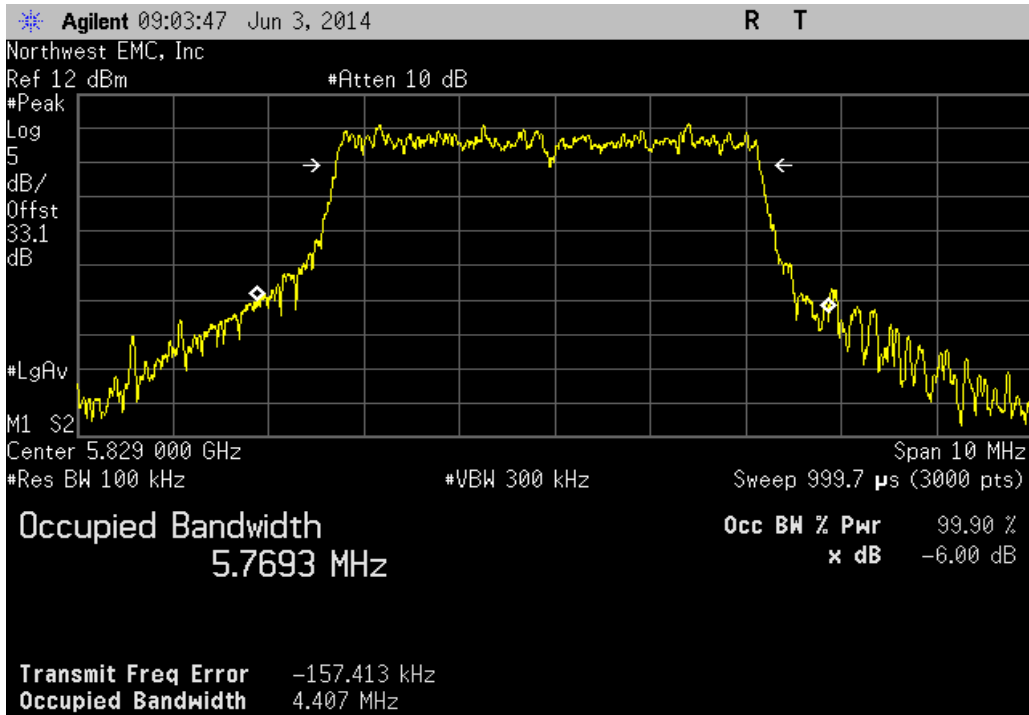
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 5784 MHz

	Value	Limit	Result
	4.423 MHz	> 500 kHz	Pass



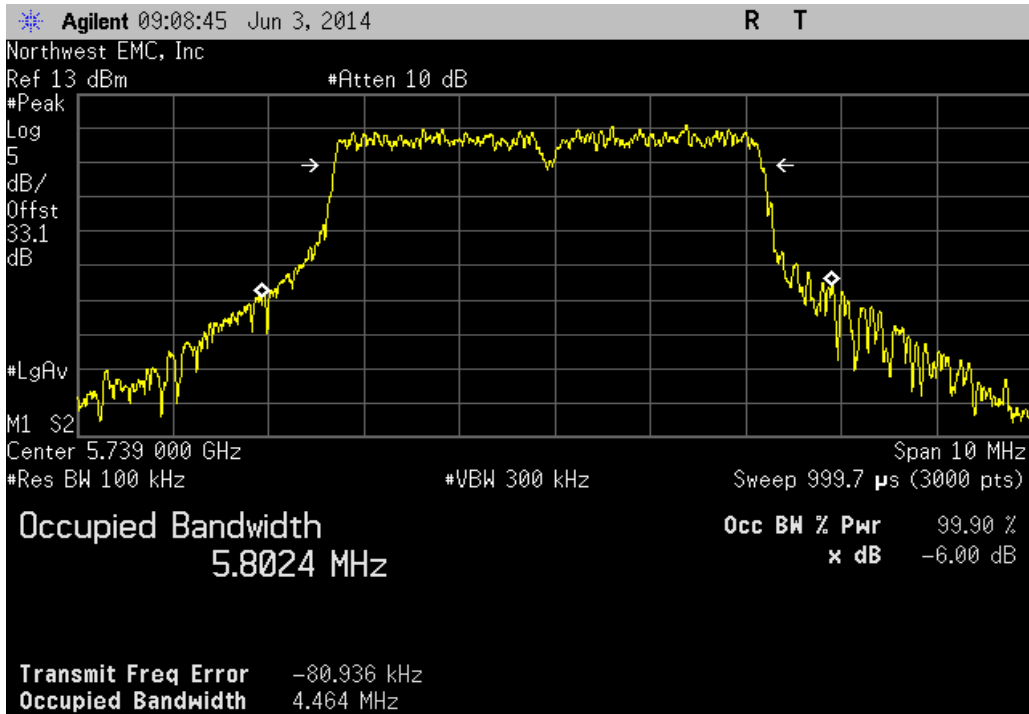
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
4.407 MHz	> 500 kHz	Pass



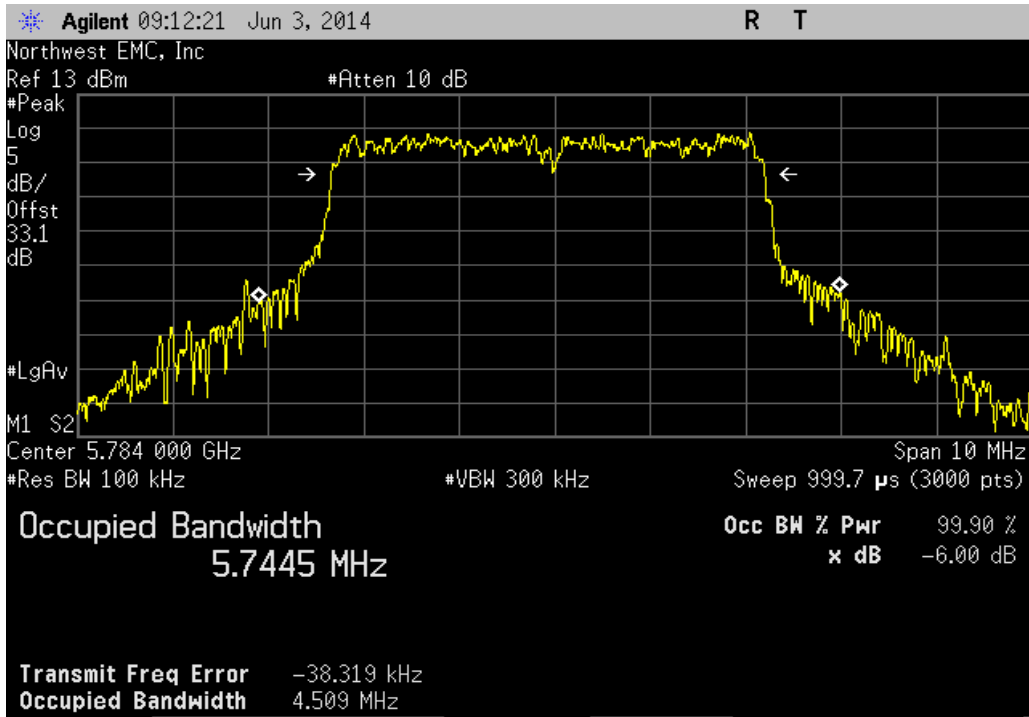
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
4.464 MHz	> 500 kHz	Pass



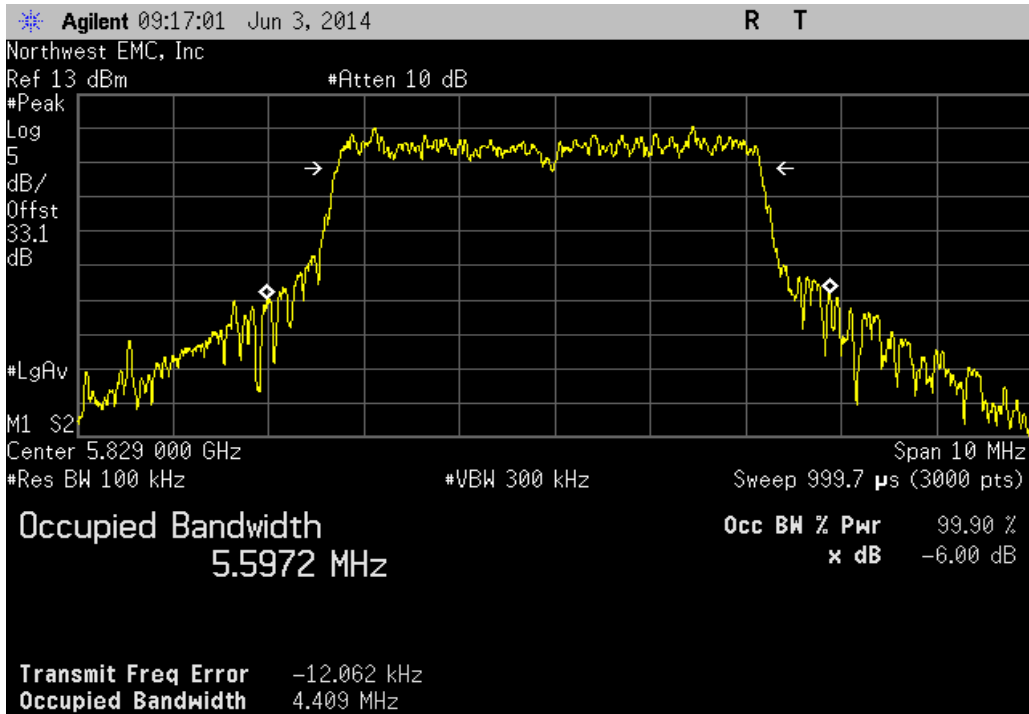
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

Value	Limit	Result
4.509 MHz	> 500 kHz	Pass



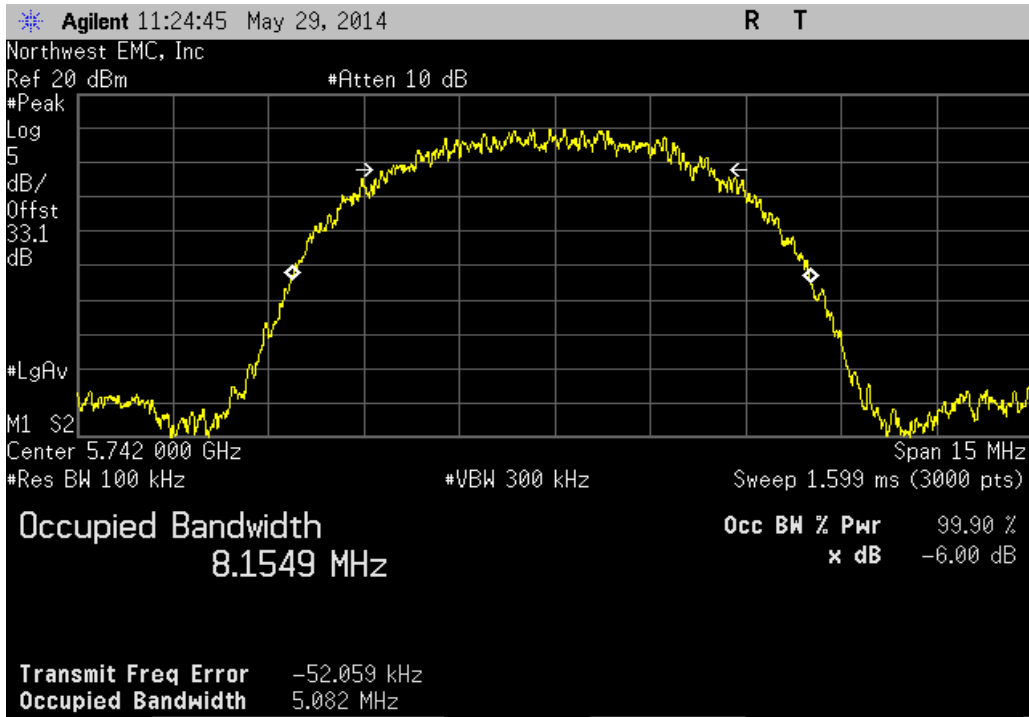
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

Value	Limit	Result
4.409 MHz	> 500 kHz	Pass



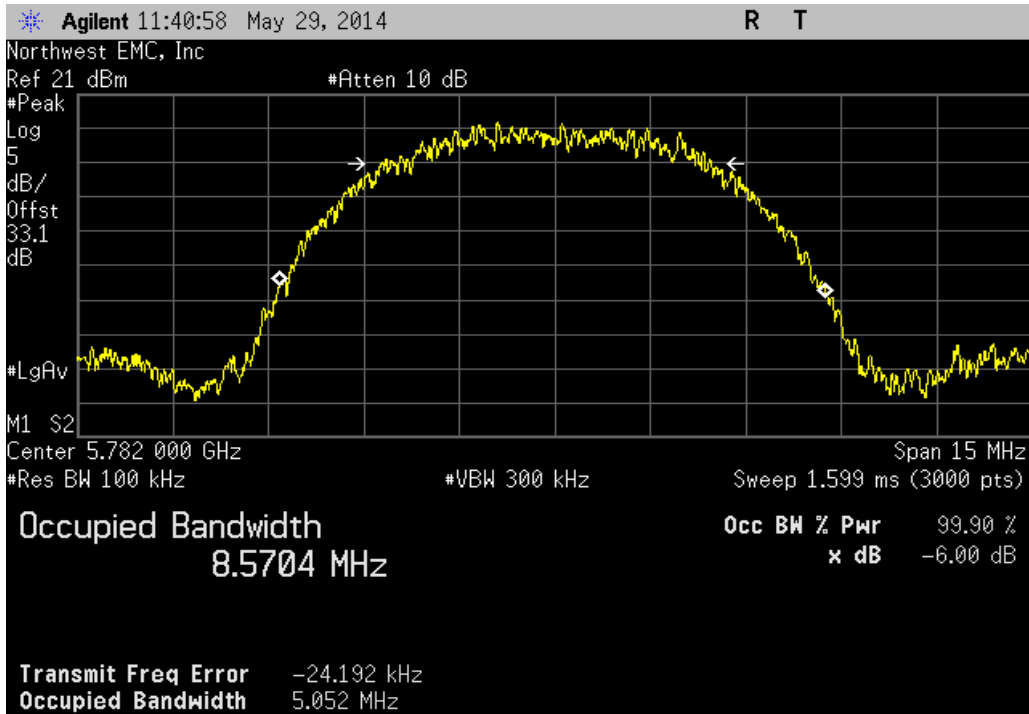
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5742 MHz

Value	Limit	Result
5.082 MHz	> 500 kHz	Pass



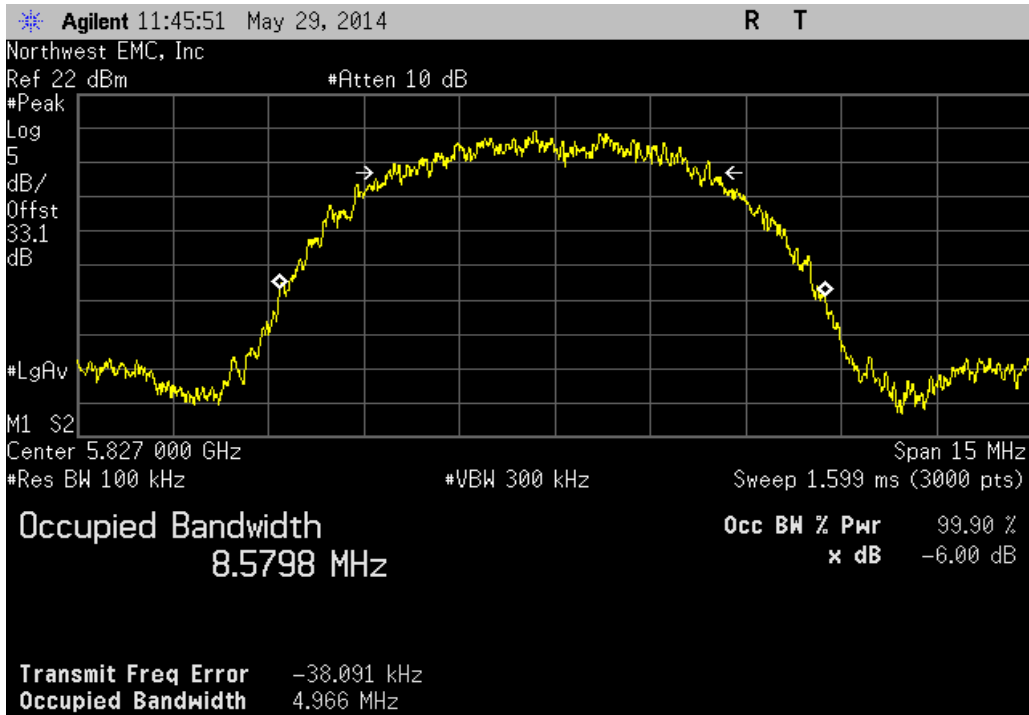
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5782 MHz

Value	Limit	Result
5.052 MHz	> 500 kHz	Pass



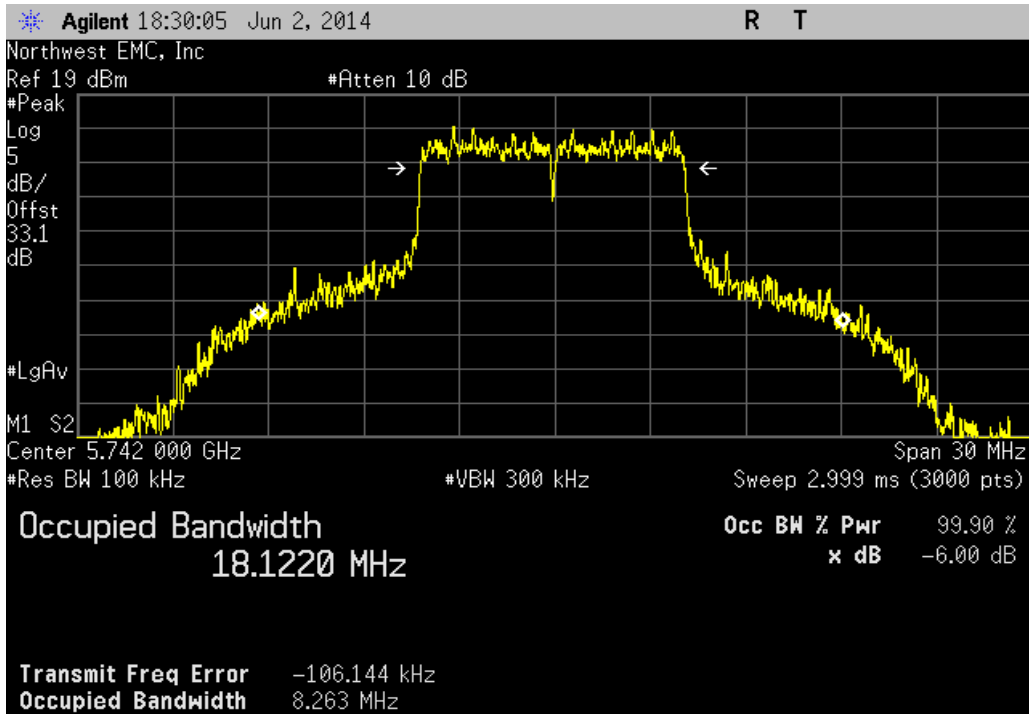
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5827 MHz

	Value	Limit	Result
	4.966 MHz	> 500 kHz	Pass



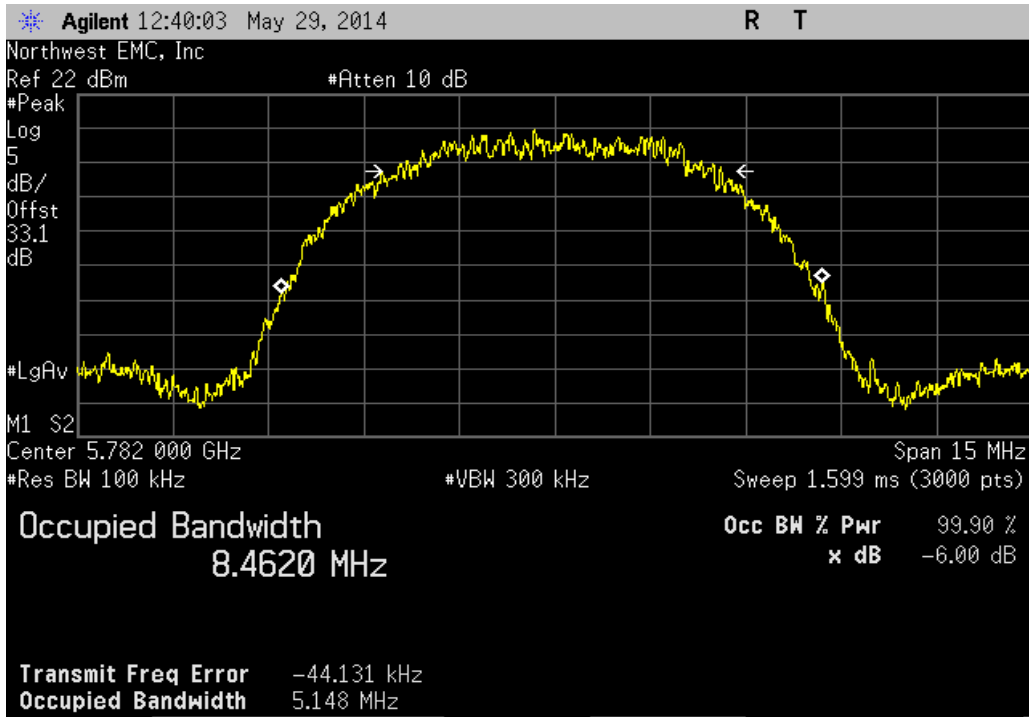
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5742 MHz

	Value	Limit	Result
	8.263 MHz	> 500 kHz	Pass



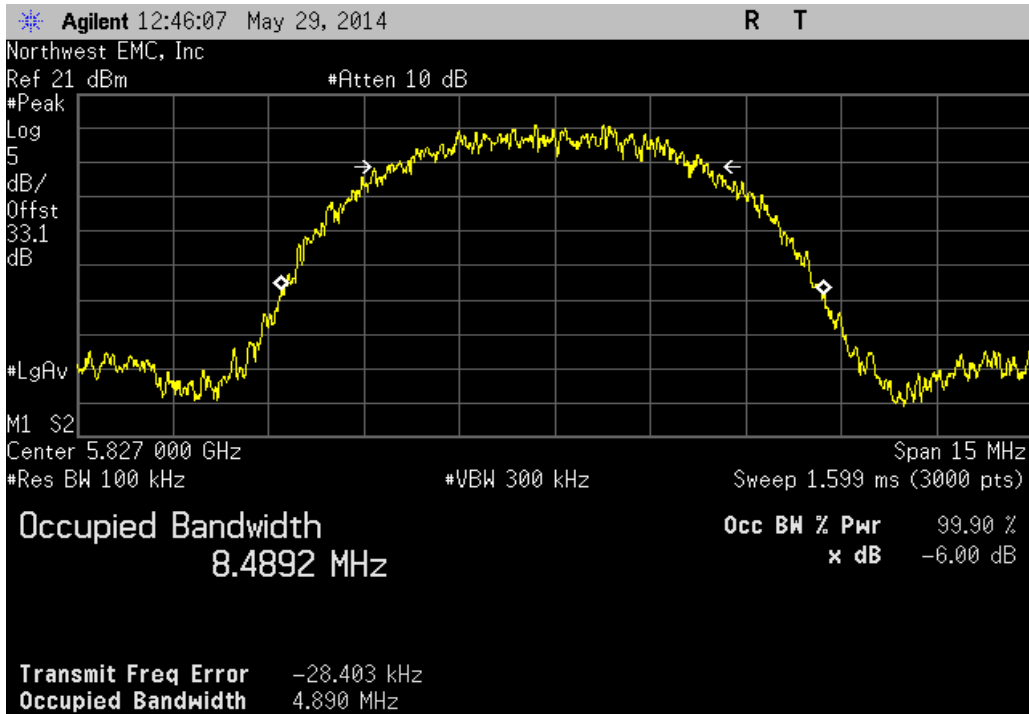
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5782 MHz

	Value	Limit	Result
	5.148 MHz	> 500 kHz	Pass



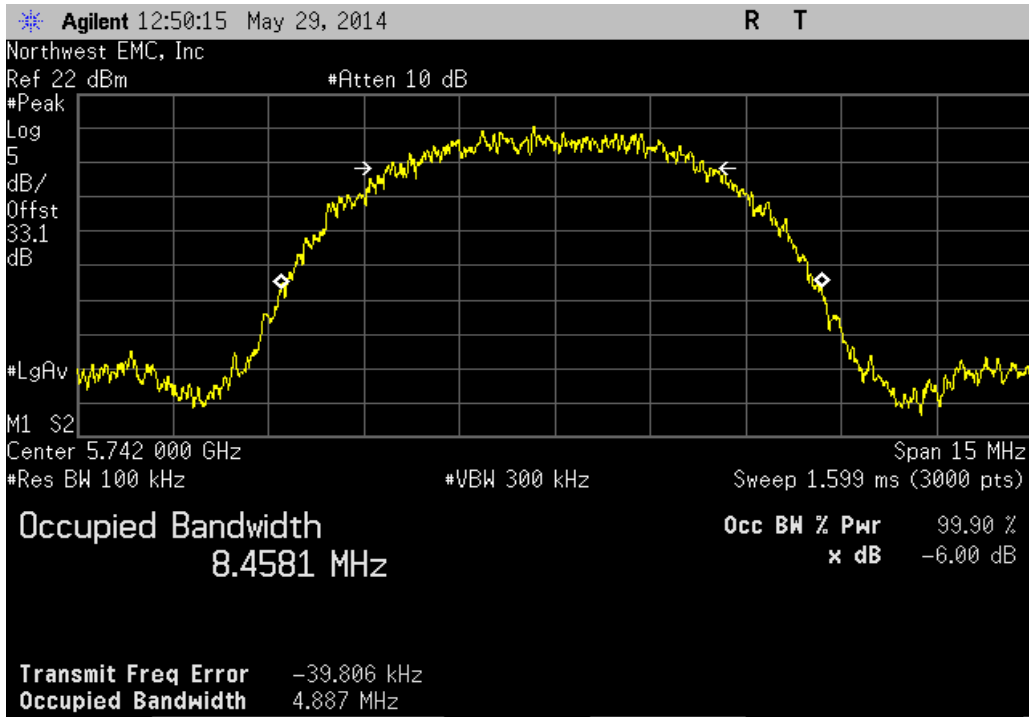
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5827 MHz

	Value	Limit	Result
	4.89 MHz	> 500 kHz	Pass



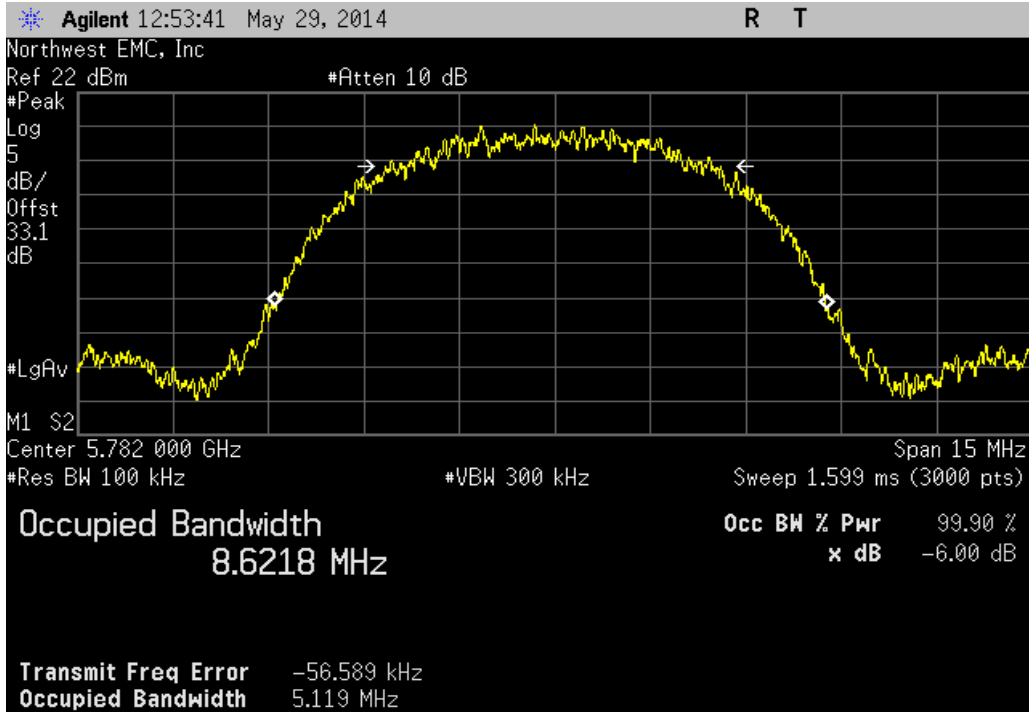
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5742 MHz

	Value	Limit	Result
	4.887 MHz	> 500 kHz	Pass



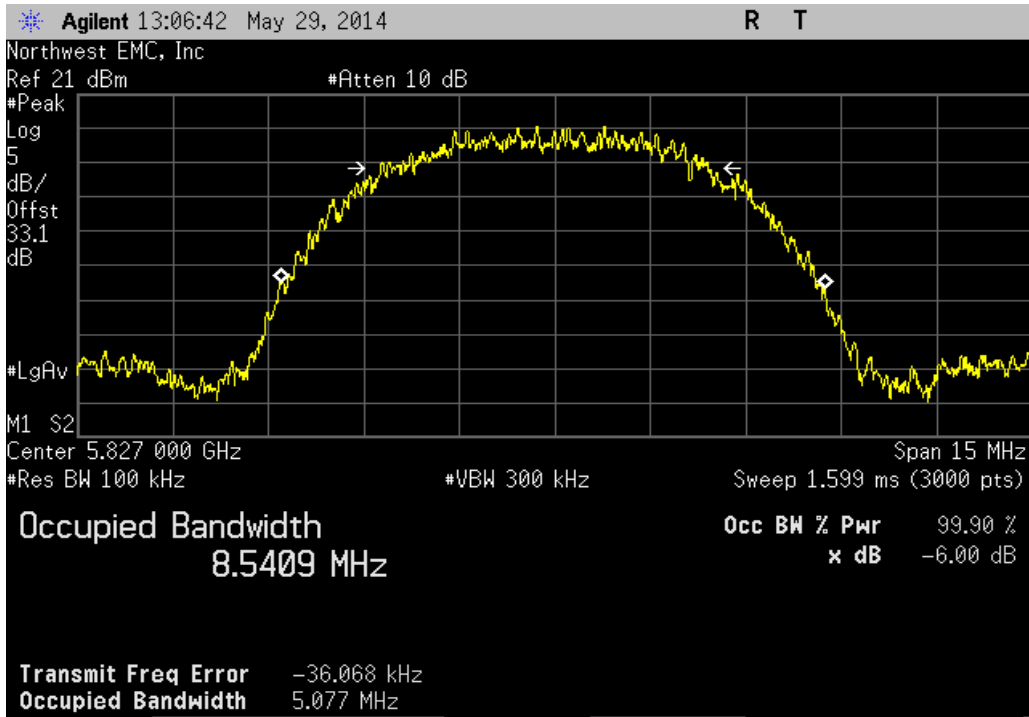
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5782 MHz

	Value	Limit	Result
	5.119 MHz	> 500 kHz	Pass



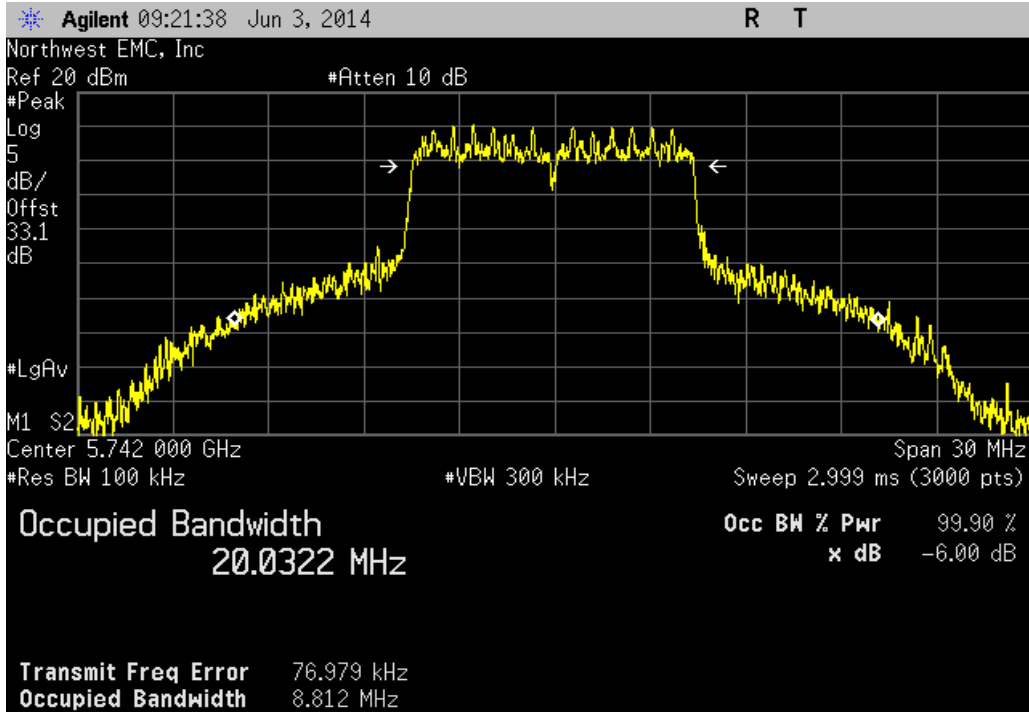
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5827 MHz

Value	Limit	Result
5.077 MHz	> 500 kHz	Pass



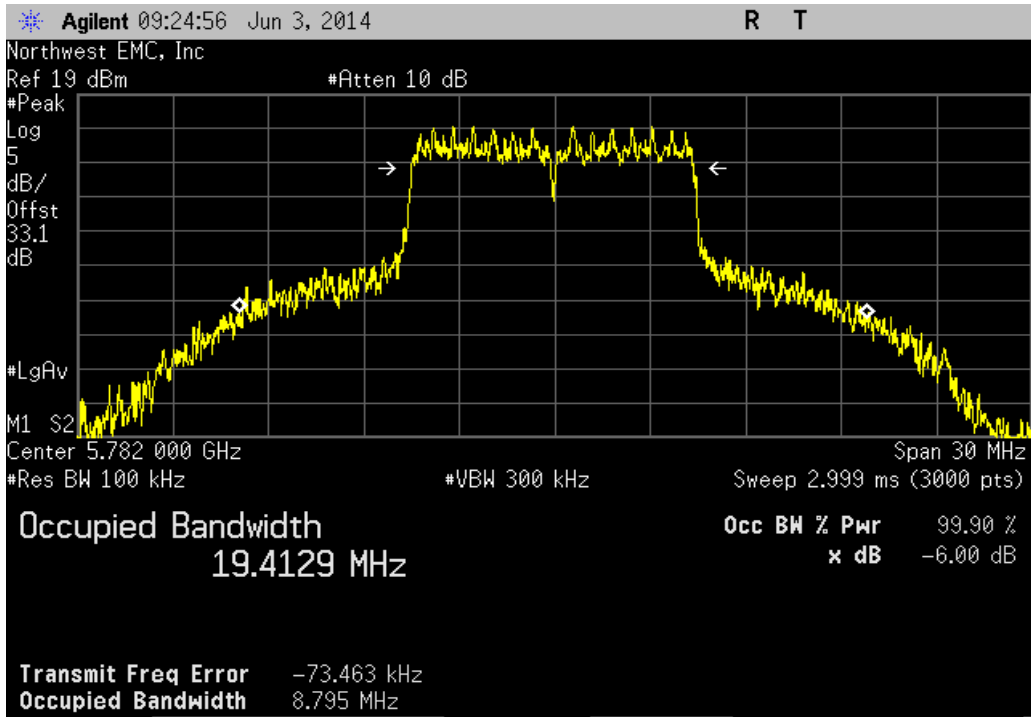
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

Value	Limit	Result
8.812 MHz	> 500 kHz	Pass



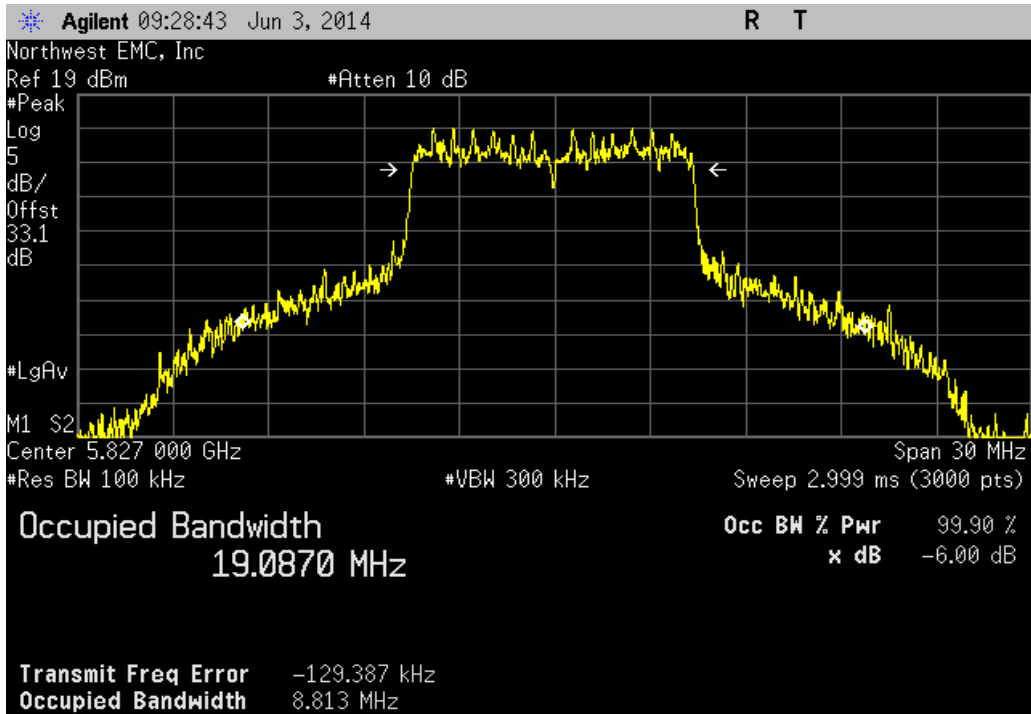
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, , Mid Channel 5782 MHz

Value	Limit	Result
8.795 MHz	> 500 kHz	Pass



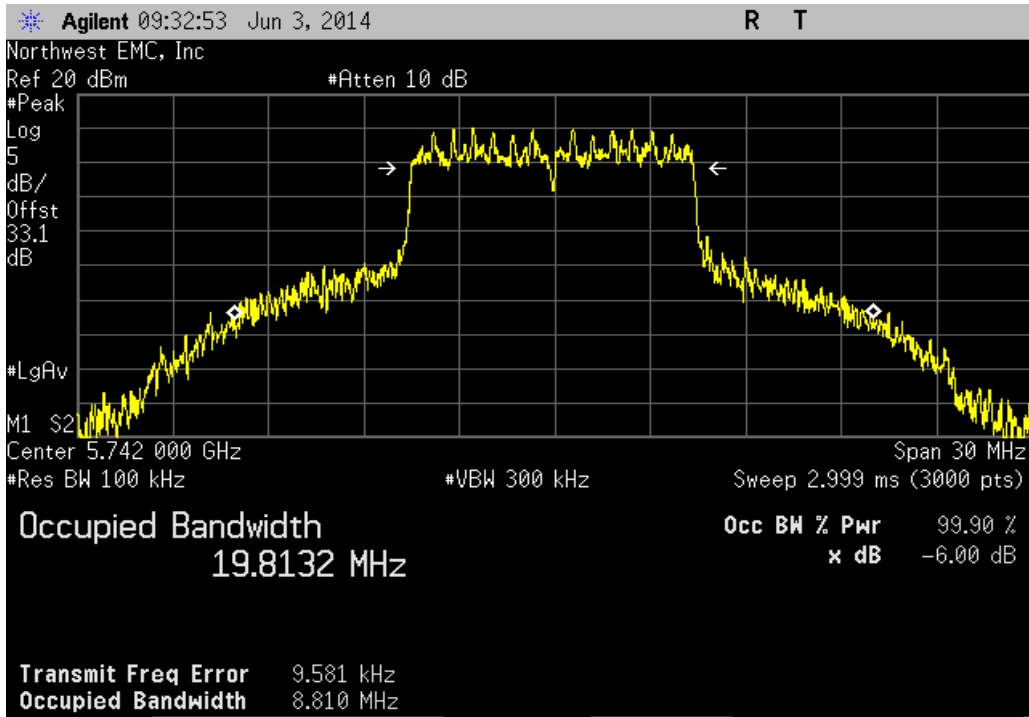
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, , High Channel 5827 MHz

Value	Limit	Result
8.813 MHz	> 500 kHz	Pass



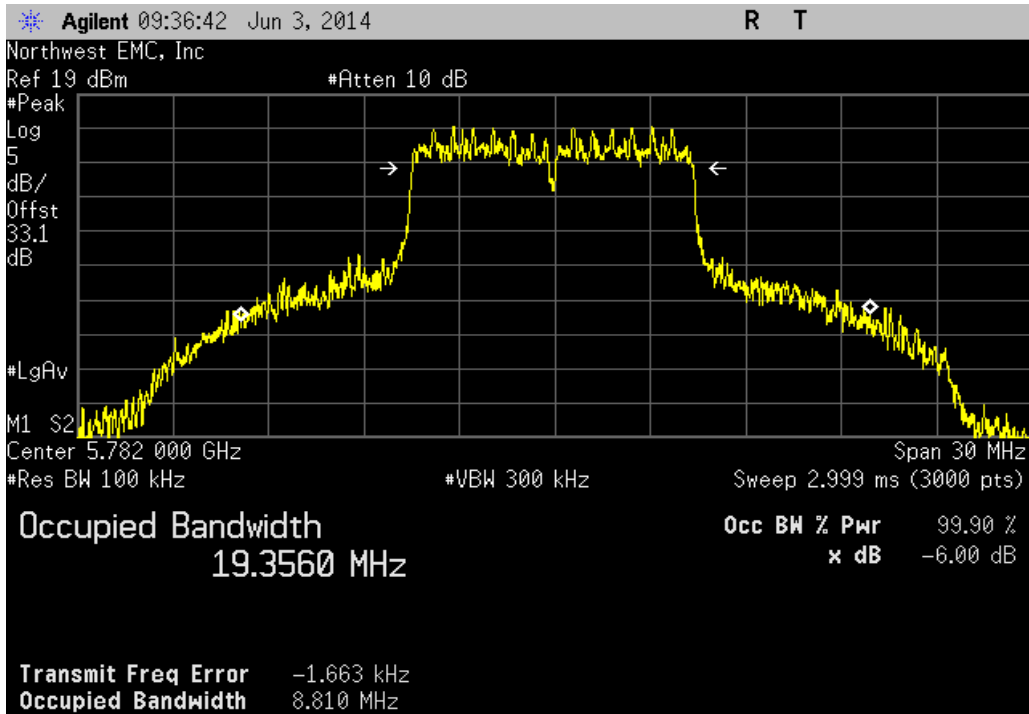
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

	Value	Limit	Result
	8.81 MHz	> 500 kHz	Pass

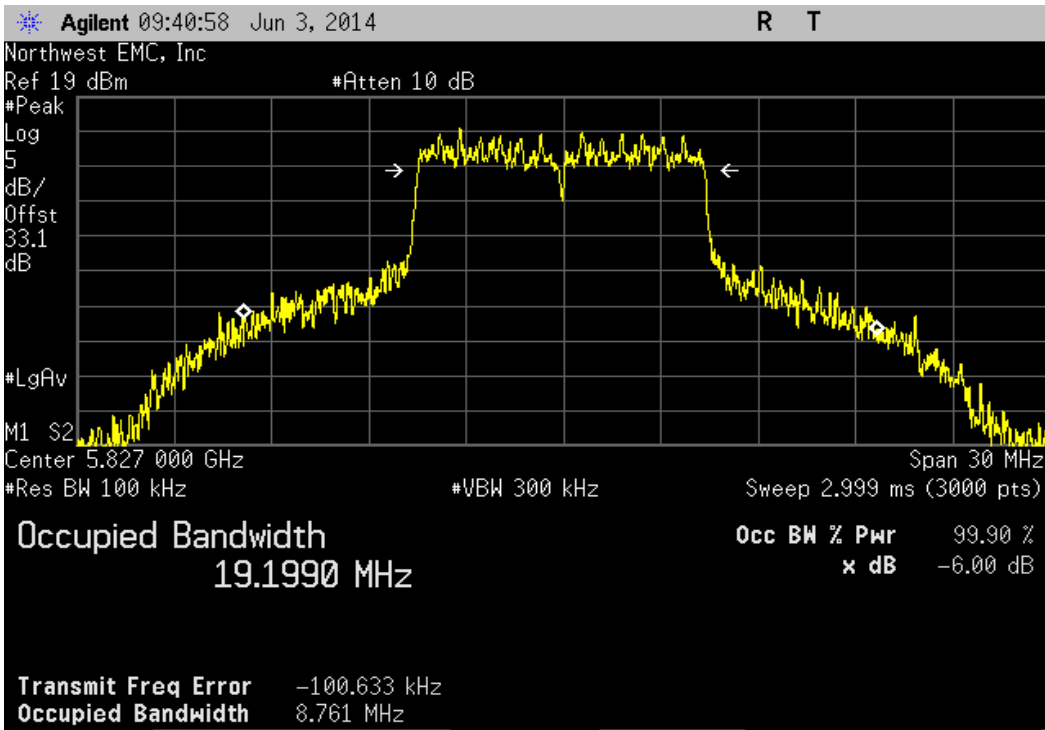


Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz

	Value	Limit	Result
	8.81 MHz	> 500 kHz	Pass



Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz						
				Value	Limit	Result
				8.761 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 2x2 MIMO

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.	Interval (mo)
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

EUT: WavePoint - 5GHz Radio (W5800-01)	Work Order: FREW0028
Serial Number: 00:07:E7:A0:01:F1	Date: 06/03/14
Customer: FreeWave Technologies, Inc.	Temperature: 22.6°C
Attendees: Dean Busch	Humidity: 43%
Project: None	Barometric Pres.: 1018.7
Tested by: Brandon Hobbs, Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06
TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS
The High and Low Channels were measured using the worst case modulation found for 8011a/n modes. An additional 10dB 5watt attenuator was used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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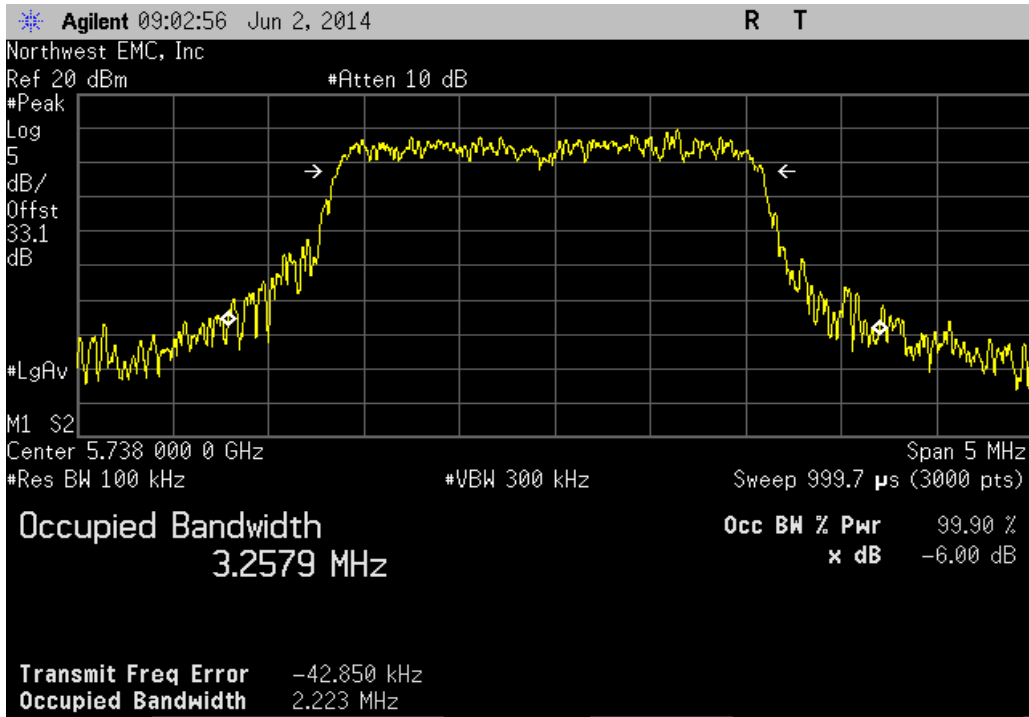
	Value	Limit	Result
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Chain 1			
5725 MHz - 5850 MHz Band			
2.5 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5738 MHz	2.223 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.202 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.203 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5738 MHz	2.209 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.196 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.193 MHz	> 500 kHz	Pass
5 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5739 MHz	4.453 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.439 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.418 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5739 MHz	4.471 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.488 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.392 MHz	> 500 kHz	Pass
10 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5742 MHz	8.788 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.768 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.783 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5742 MHz	8.849 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.787 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.846 MHz	> 500 kHz	Pass

Chain 2			
5725 MHz - 5850 MHz Band			
2.5 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5738 MHz	2.213 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.242 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.224 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5738 MHz	2.266 MHz	> 500 kHz	Pass
Mid Channel 5783 MHz	2.234 MHz	> 500 kHz	Pass
High Channel 5831 MHz	2.247 MHz	> 500 kHz	Pass
5 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5739 MHz	4.445 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.441 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.453 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5739 MHz	4.436 MHz	> 500 kHz	Pass
Mid Channel 5784 MHz	4.419 MHz	> 500 kHz	Pass
High Channel 5829 MHz	4.433 MHz	> 500 kHz	Pass
10 MHz			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 5742 MHz	8.785 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.803 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.858 MHz	> 500 kHz	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 5742 MHz	8.807 MHz	> 500 kHz	Pass
Mid Channel 5782 MHz	8.853 MHz	> 500 kHz	Pass
High Channel 5827 MHz	8.75 MHz	> 500 kHz	Pass

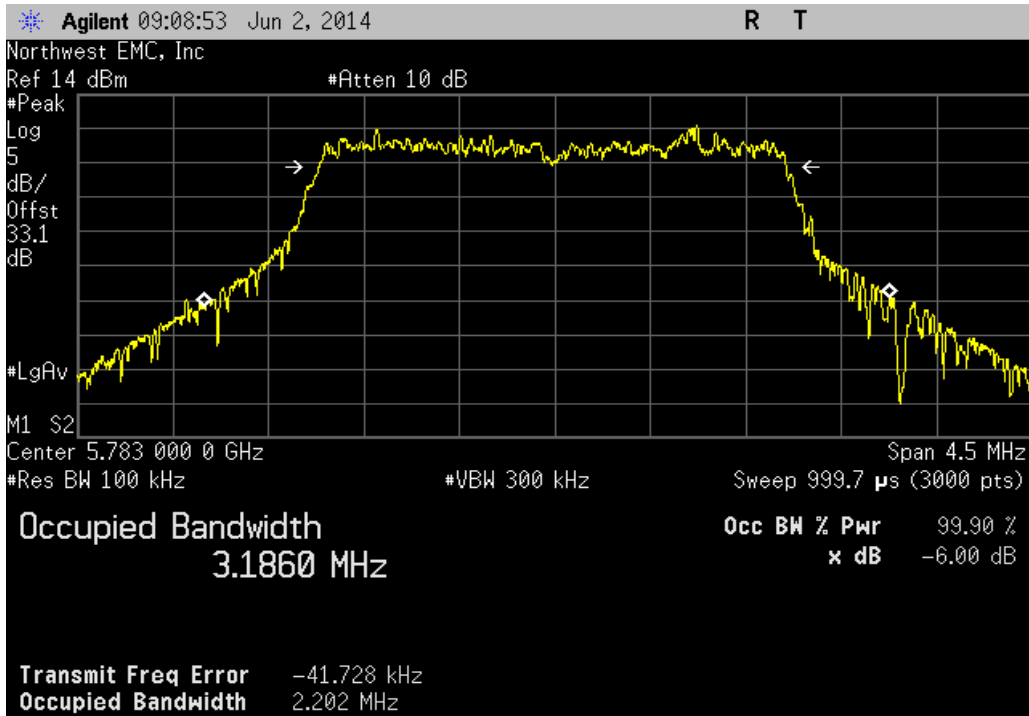
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

	Value	Limit	Result
	2.223 MHz	> 500 kHz	Pass

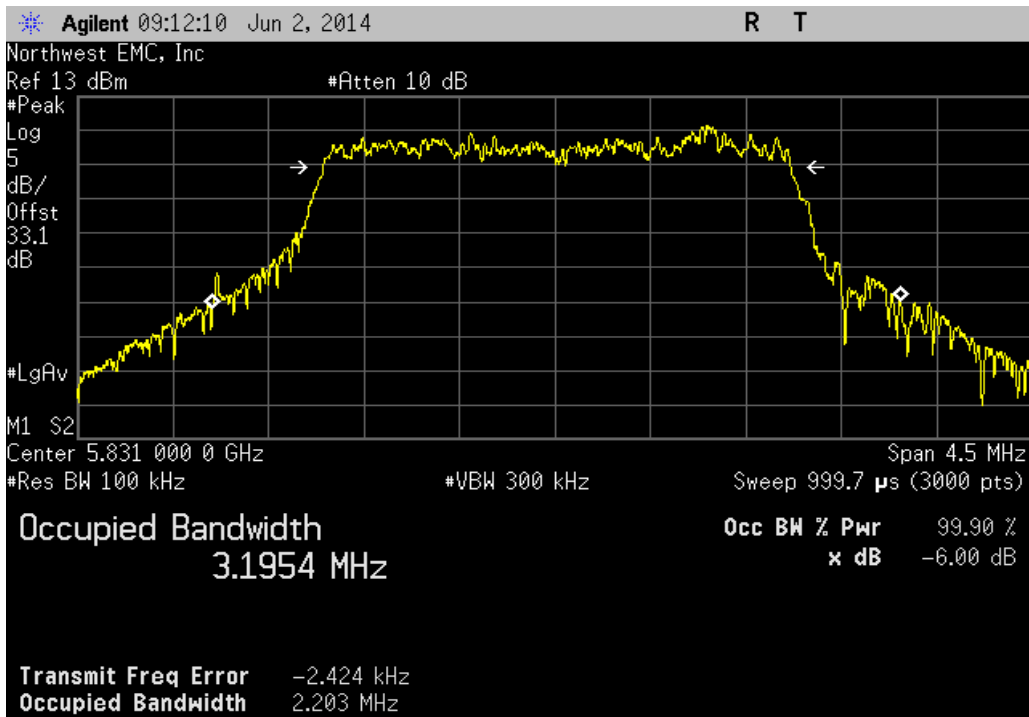


Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5783 MHz

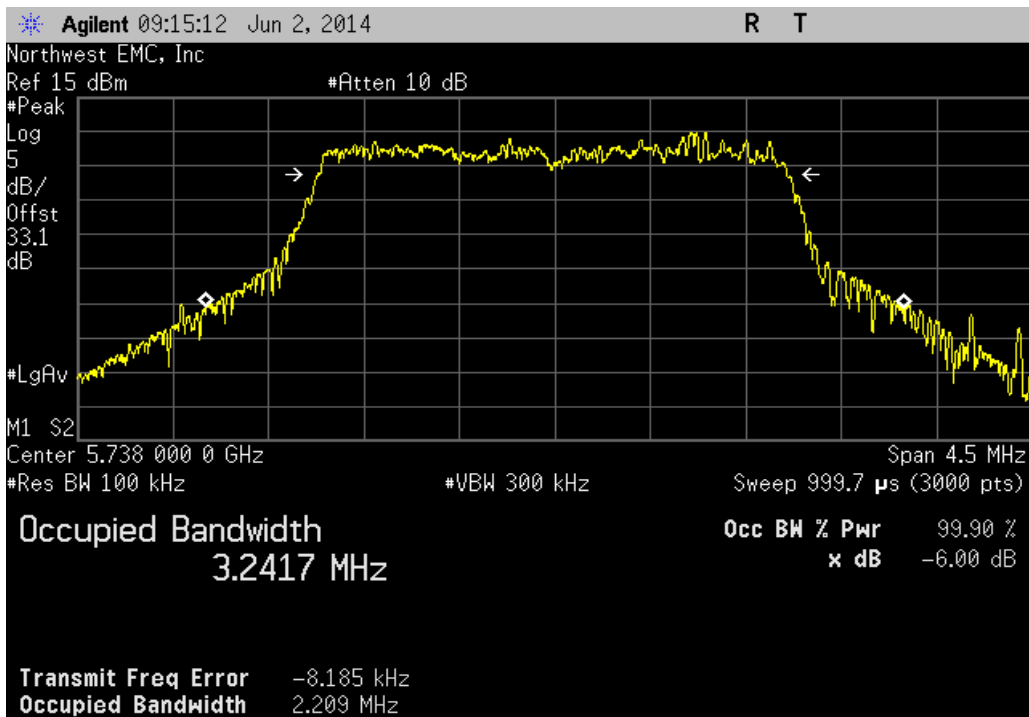
	Value	Limit	Result
	2.202 MHz	> 500 kHz	Pass



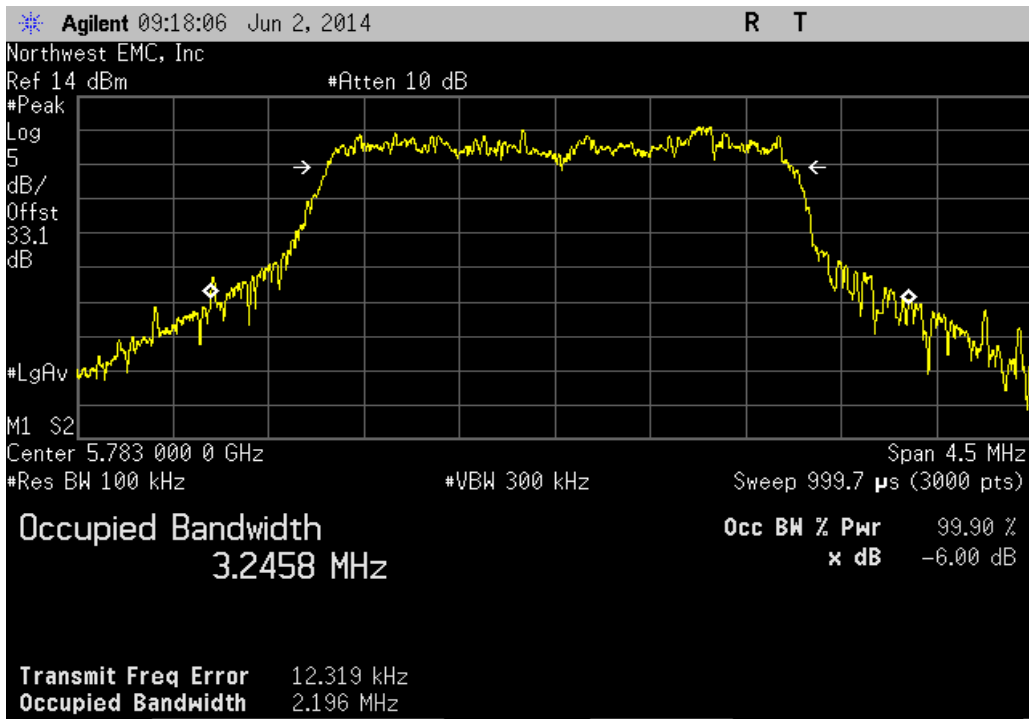
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5831 MHz			
	Value	Limit	Result
	2.203 MHz	> 500 kHz	Pass



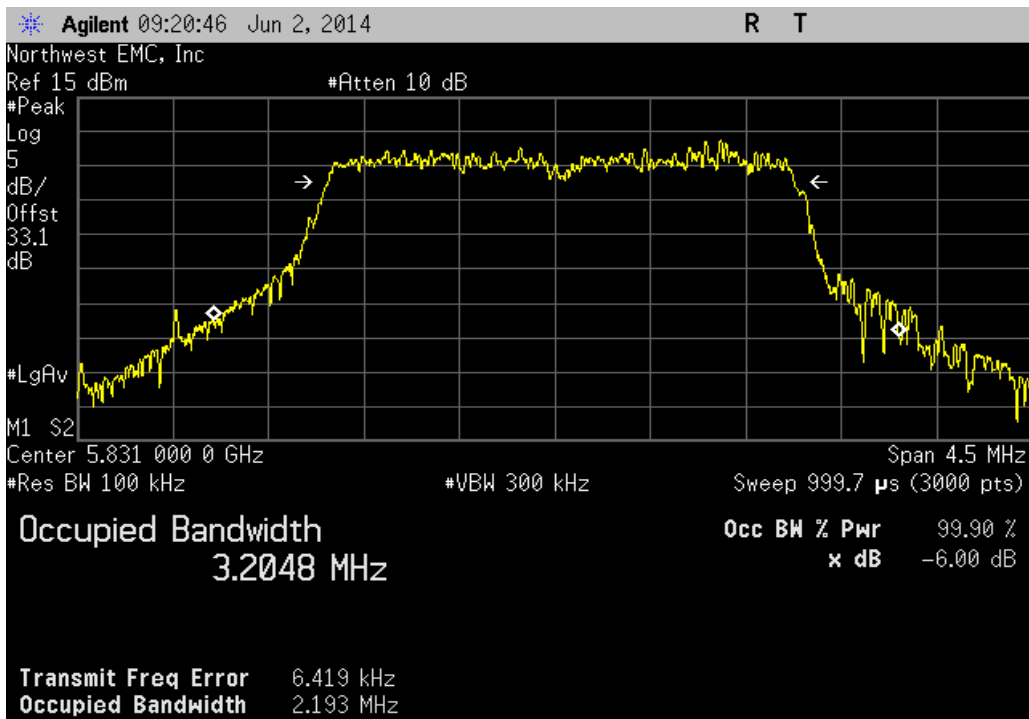
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz			
	Value	Limit	Result
	2.209 MHz	> 500 kHz	Pass



Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz			
	Value	Limit	Result
	2.196 MHz	> 500 kHz	Pass

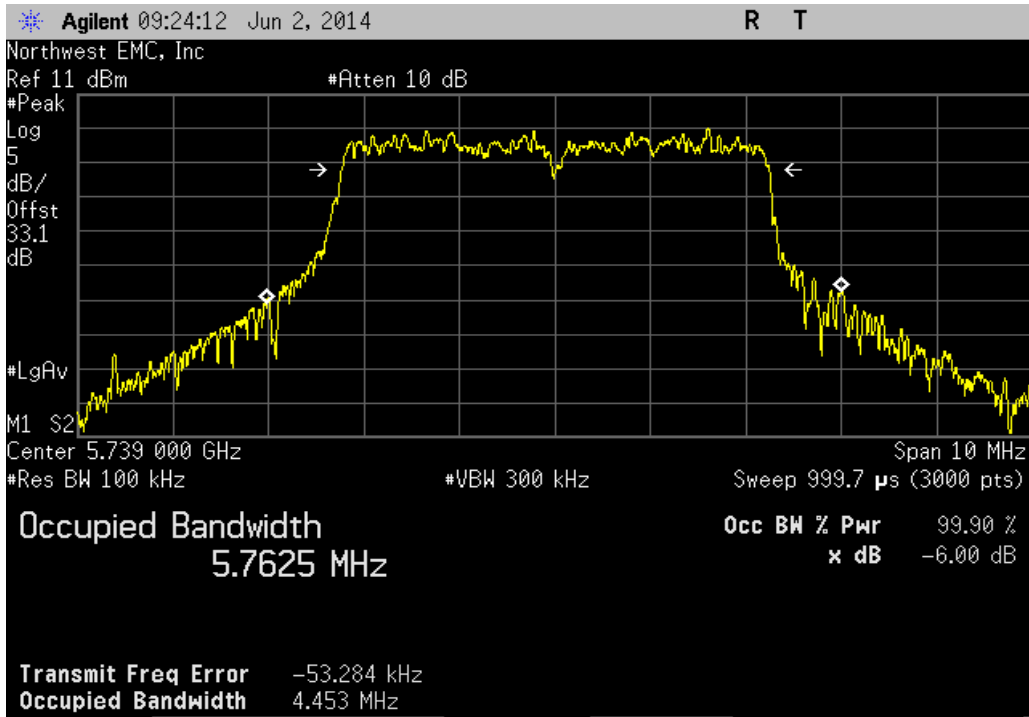


Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz			
	Value	Limit	Result
	2.193 MHz	> 500 kHz	Pass



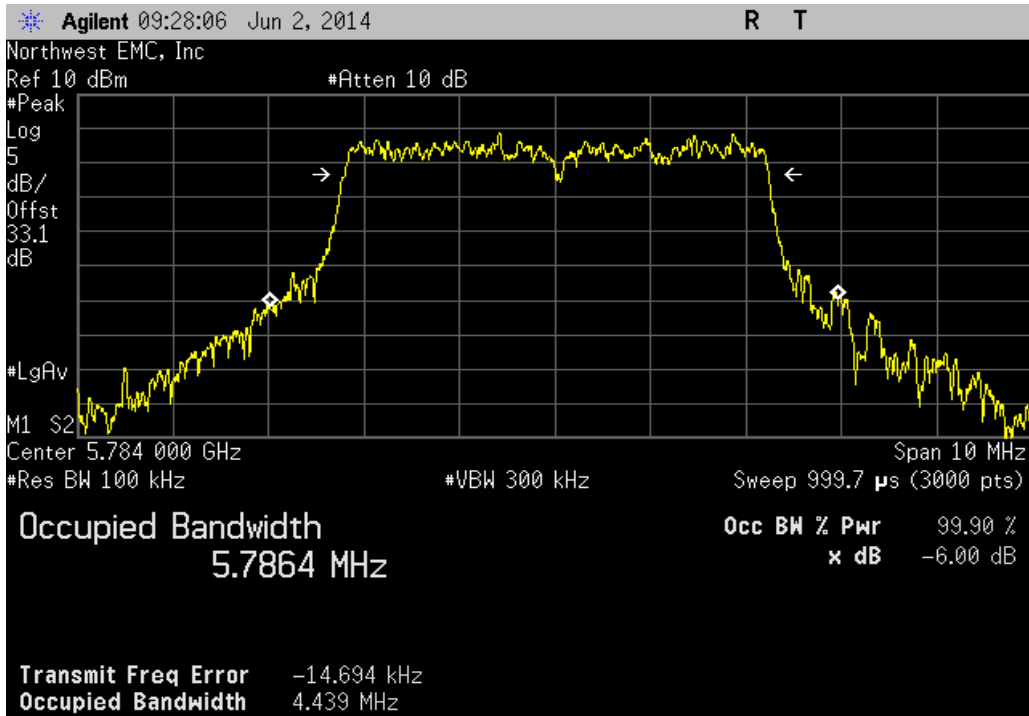
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5739 MHz

Value	Limit	Result
4.453 MHz	> 500 kHz	Pass



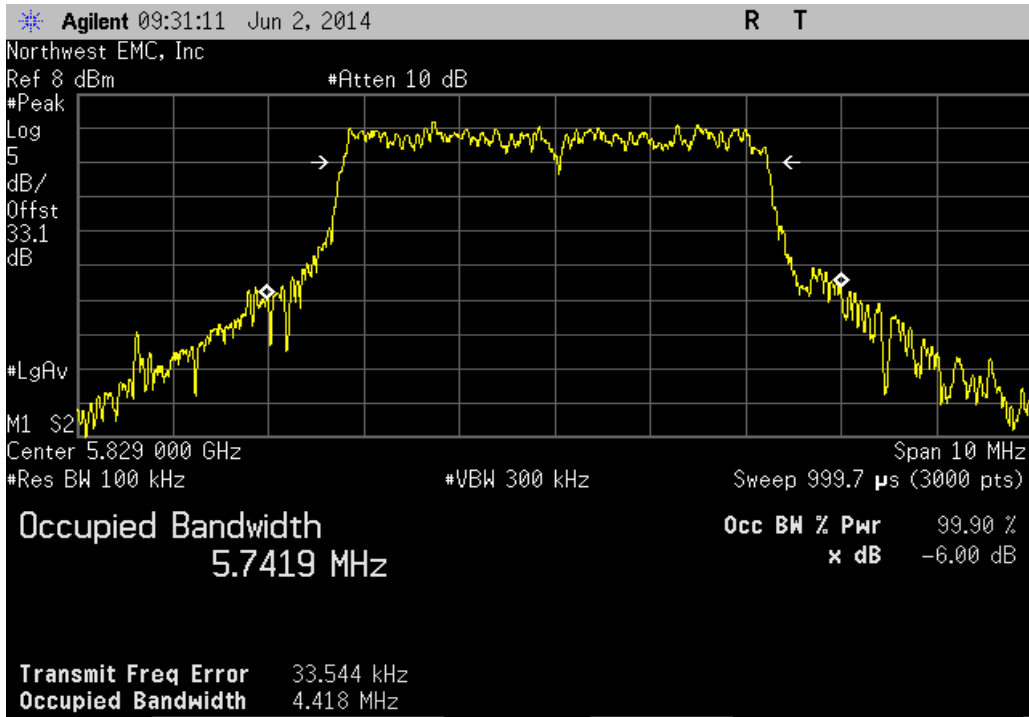
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5784 MHz

Value	Limit	Result
4.439 MHz	> 500 kHz	Pass



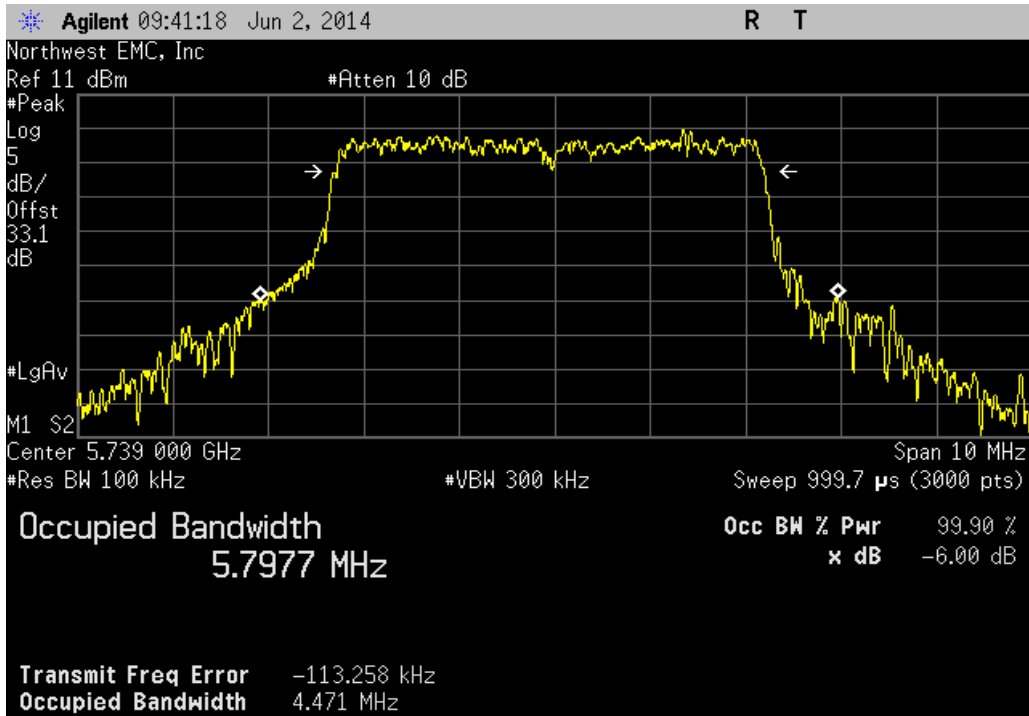
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
4.418 MHz	> 500 kHz	Pass



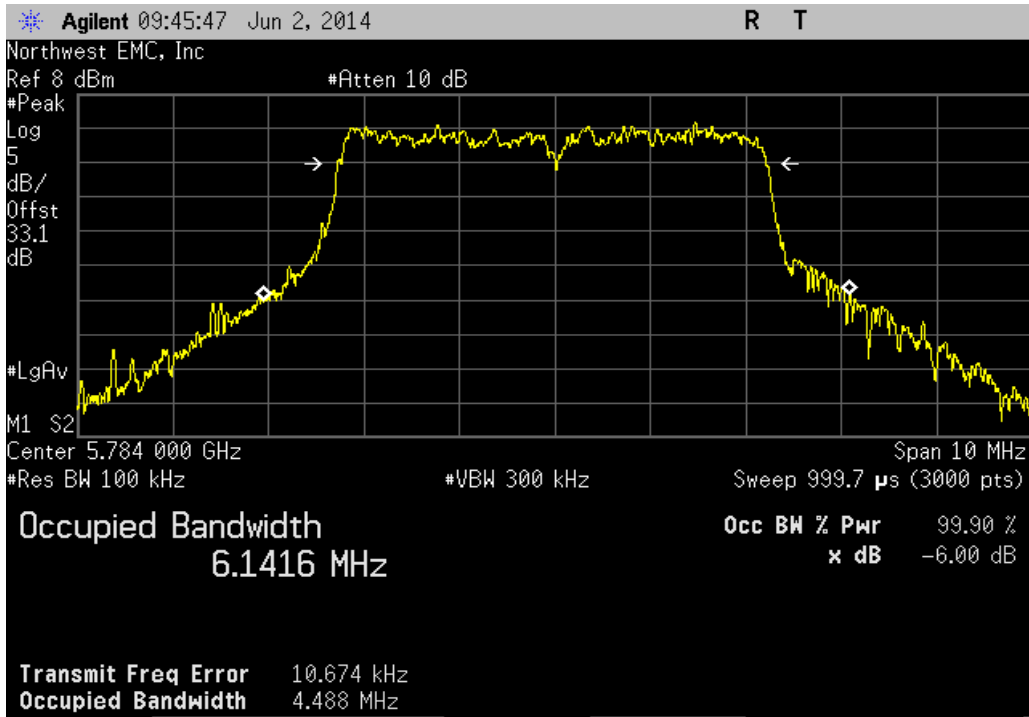
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
4.471 MHz	> 500 kHz	Pass



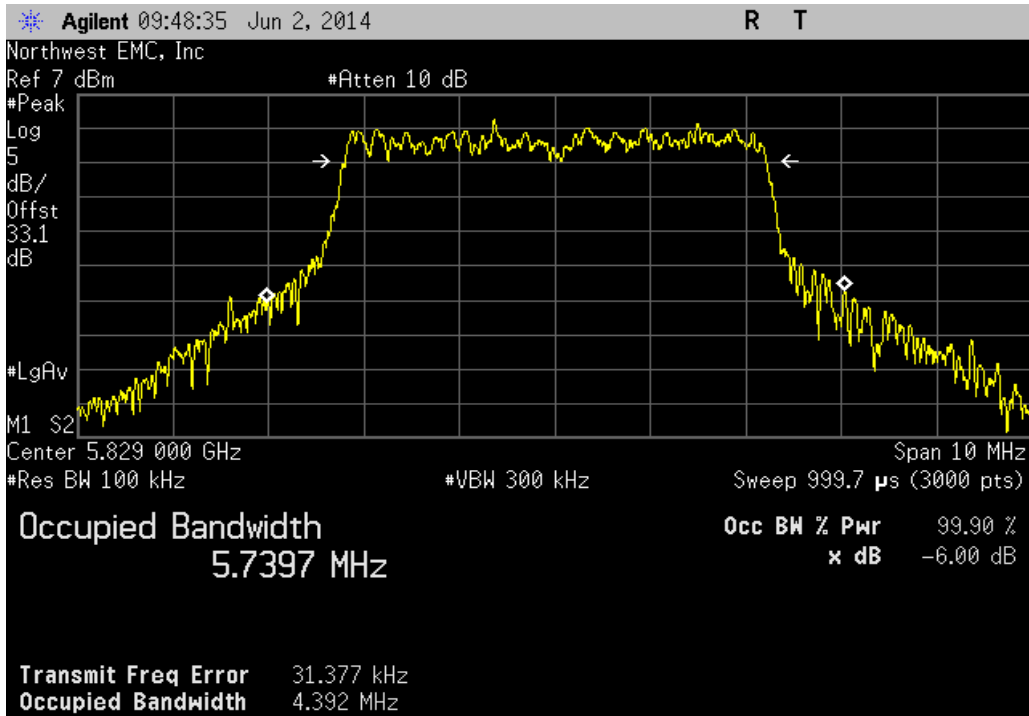
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

Value	Limit	Result
4.488 MHz	> 500 kHz	Pass



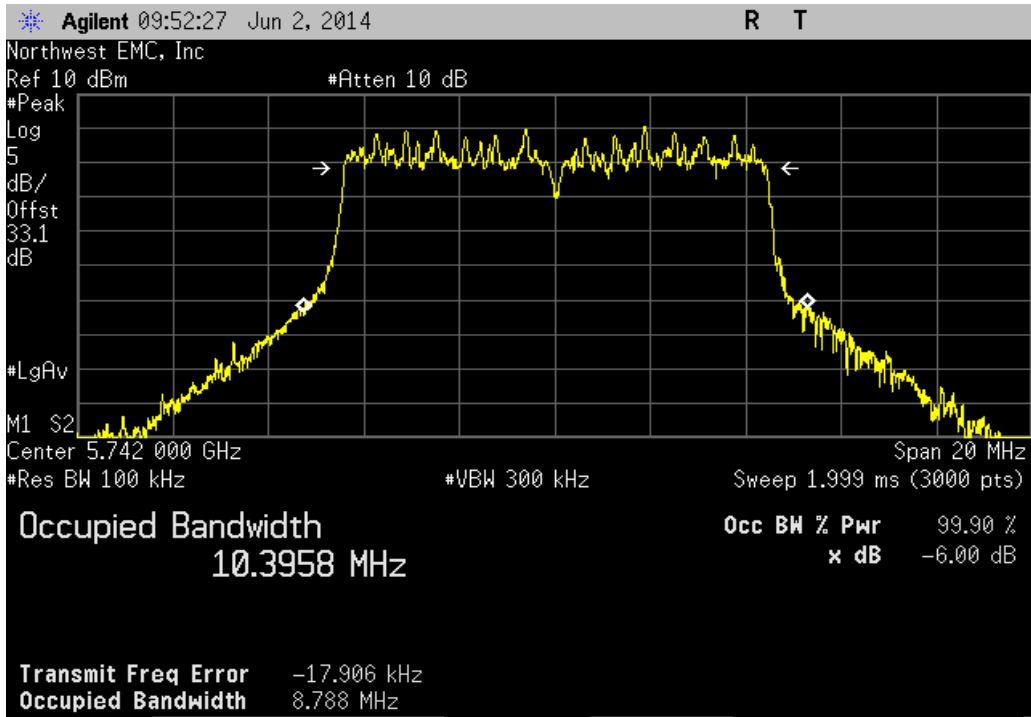
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

Value	Limit	Result
4.392 MHz	> 500 kHz	Pass



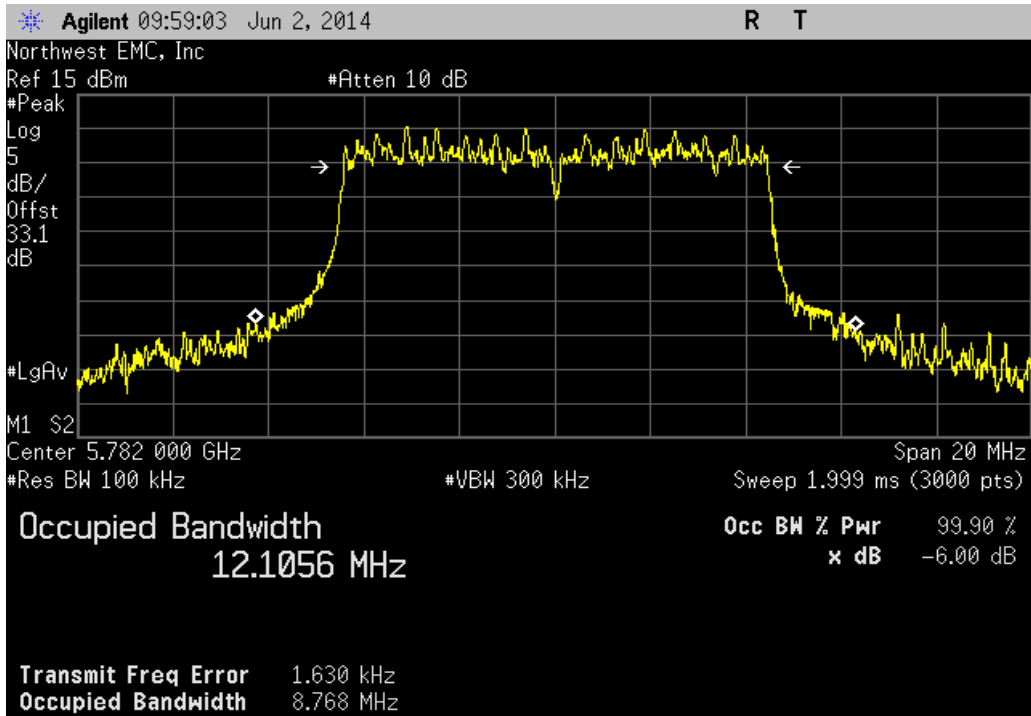
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

Value	Limit	Result
8.788 MHz	> 500 kHz	Pass



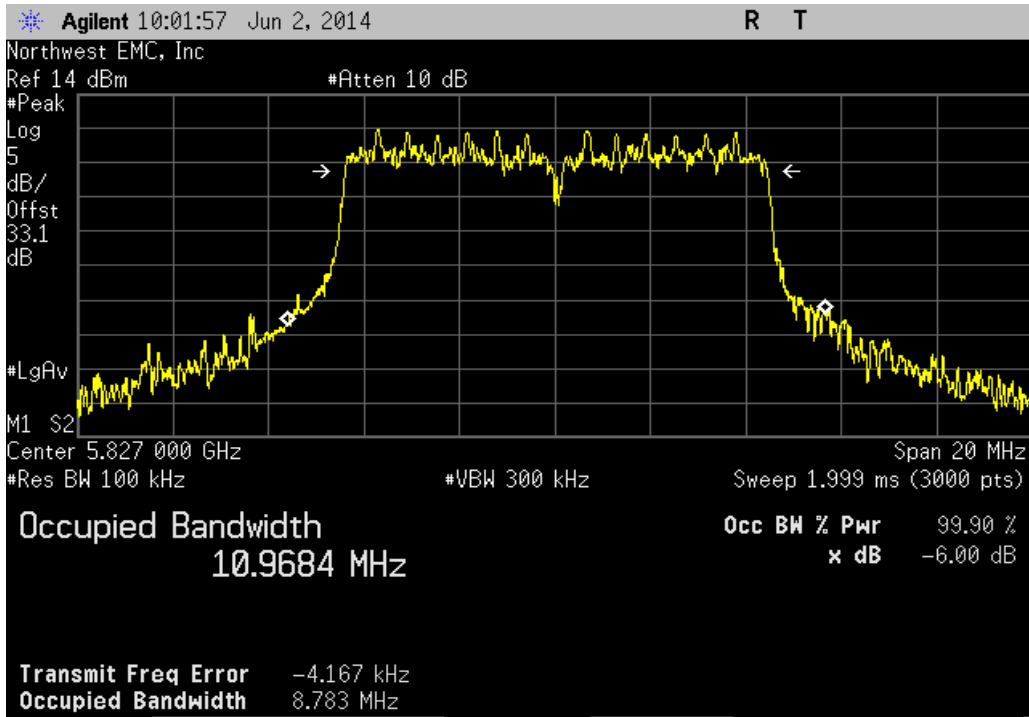
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5782 MHz

Value	Limit	Result
8.768 MHz	> 500 kHz	Pass



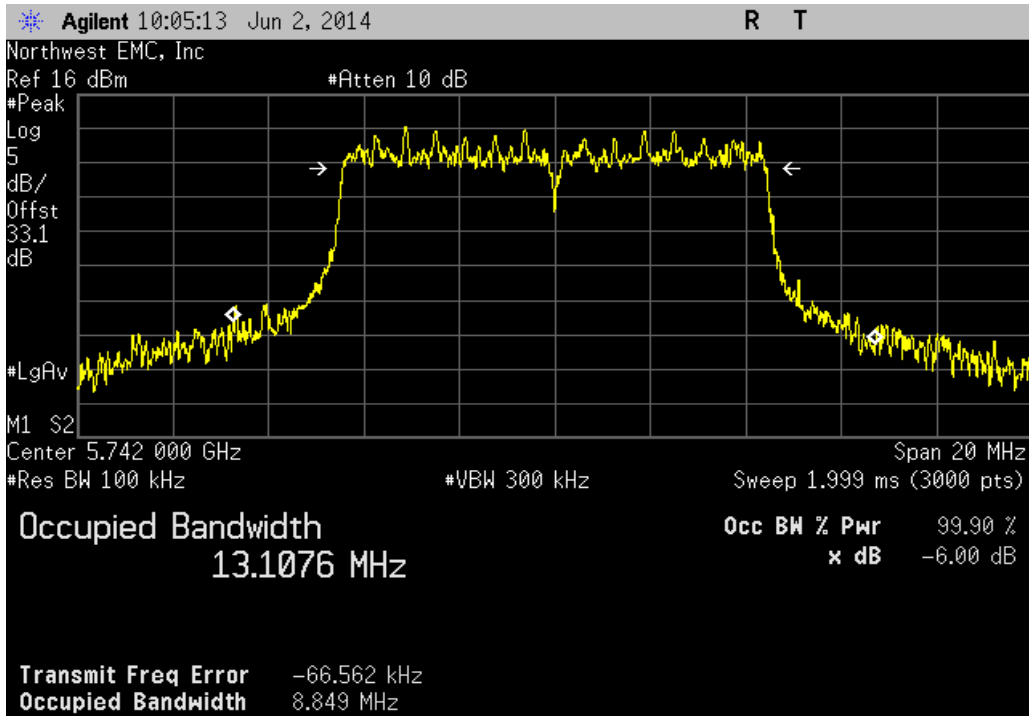
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5827 MHz

	Value	Limit	Result
	8.783 MHz	> 500 kHz	Pass

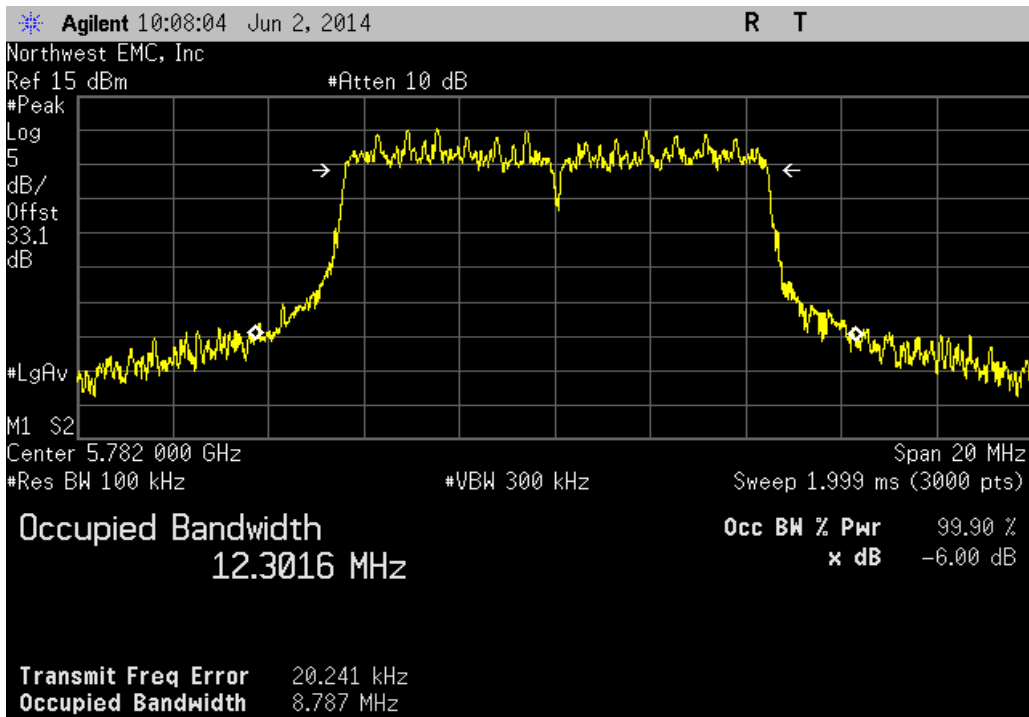


Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

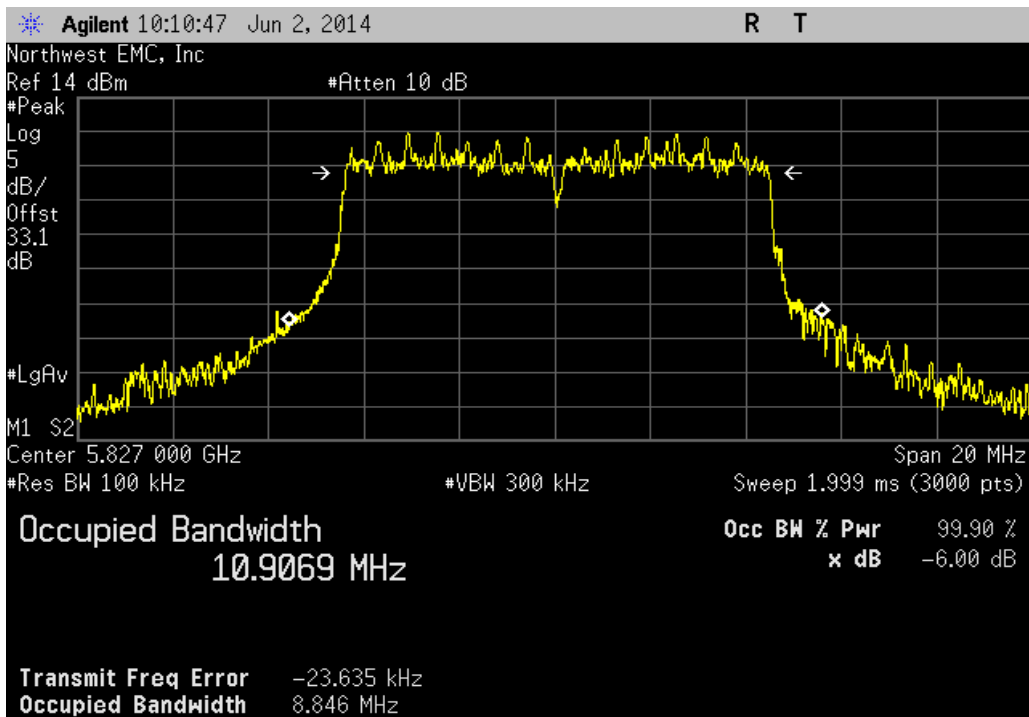
	Value	Limit	Result
	8.849 MHz	> 500 kHz	Pass



Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz			
	Value	Limit	Result
	8.787 MHz	> 500 kHz	Pass

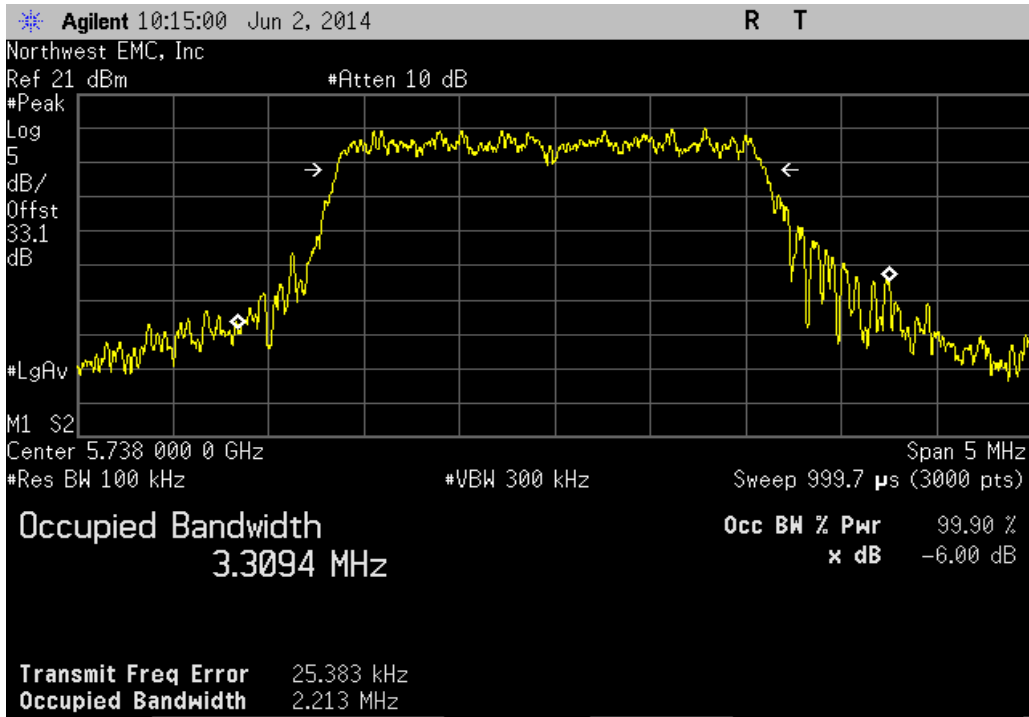


Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz			
	Value	Limit	Result
	8.846 MHz	> 500 kHz	Pass



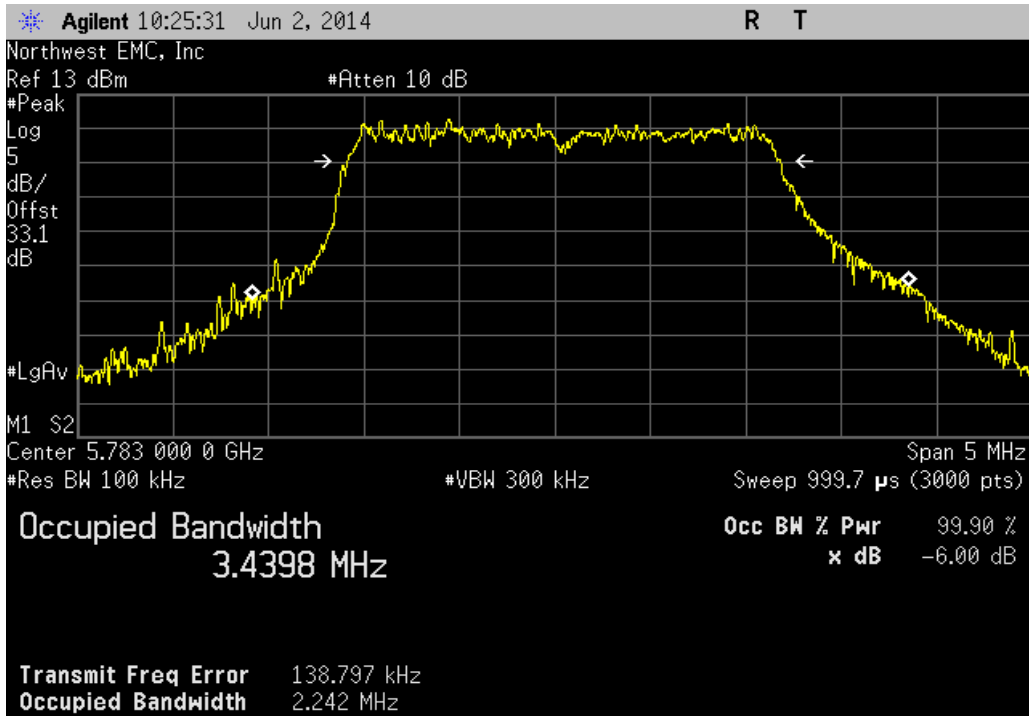
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

	Value	Limit	Result
	2.213 MHz	> 500 kHz	Pass

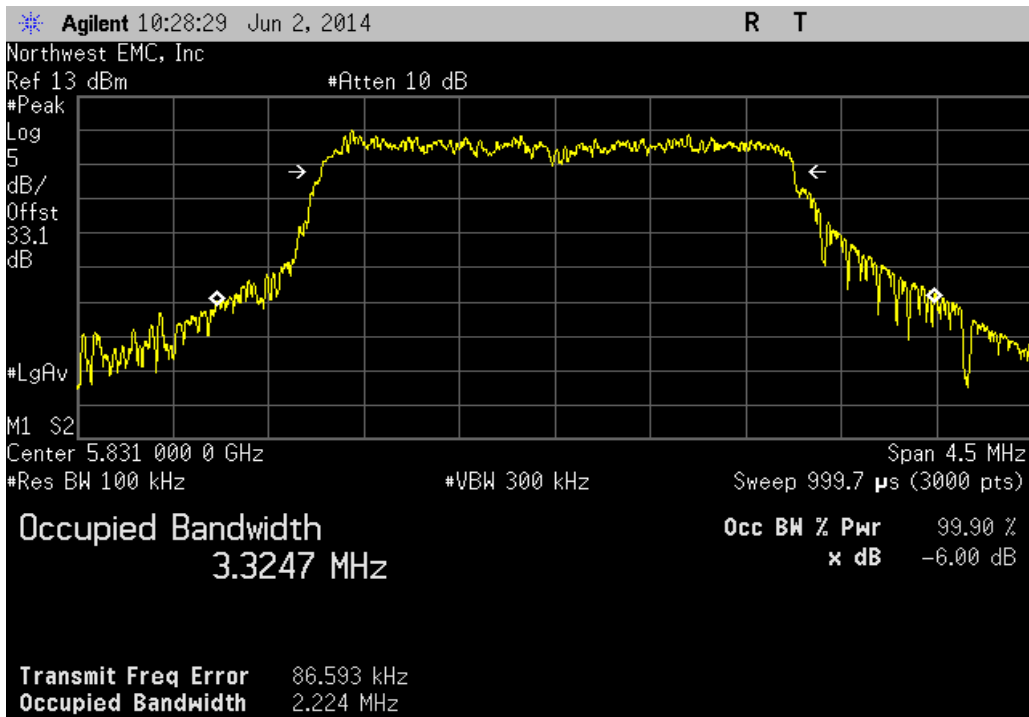


Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5783 MHz

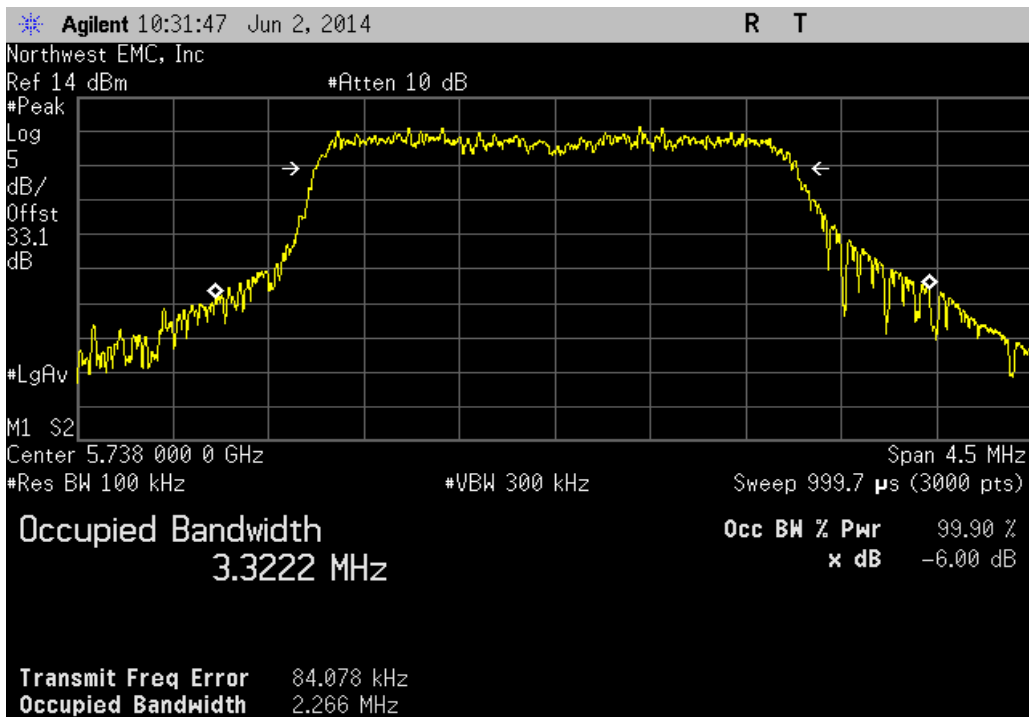
	Value	Limit	Result
	2.242 MHz	> 500 kHz	Pass



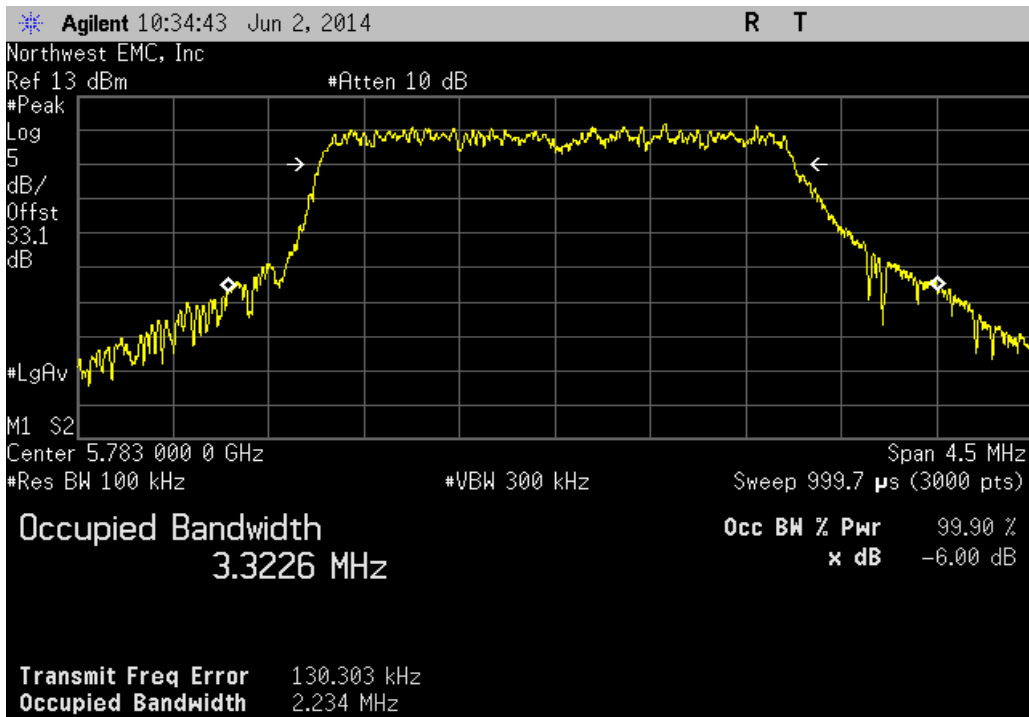
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5831 MHz			
	Value	Limit	Result
	2.224 MHz	> 500 kHz	Pass



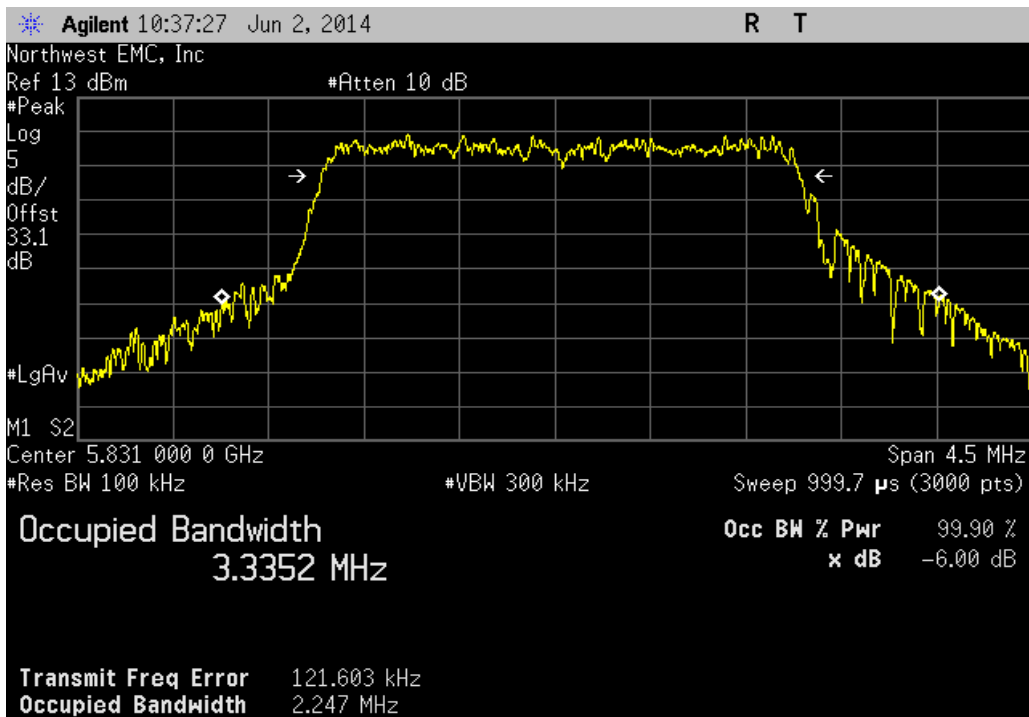
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz			
	Value	Limit	Result
	2.266 MHz	> 500 kHz	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz			
	Value	Limit	Result
	2.234 MHz	> 500 kHz	Pass

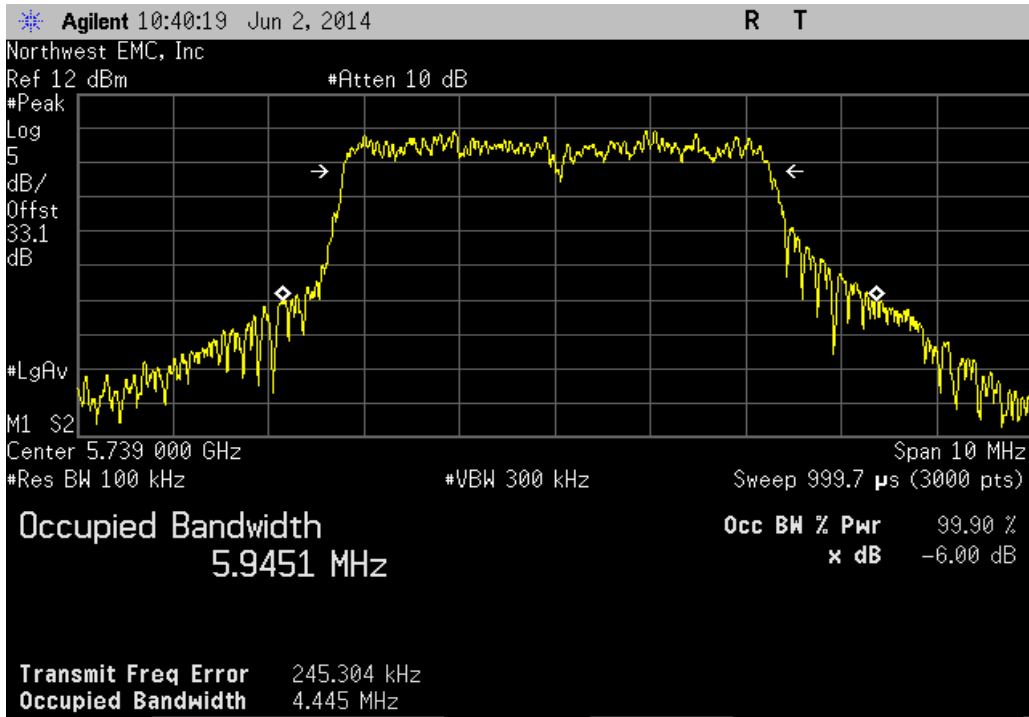


Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz			
	Value	Limit	Result
	2.247 MHz	> 500 kHz	Pass



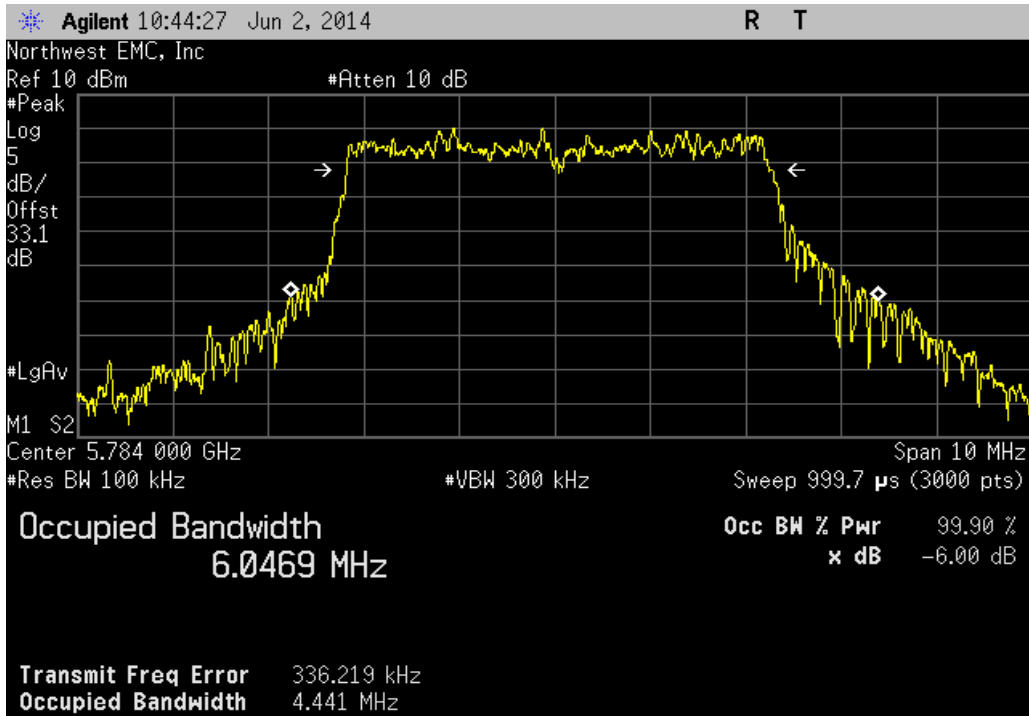
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5739 MHz

Value	Limit	Result
4.445 MHz	> 500 kHz	Pass



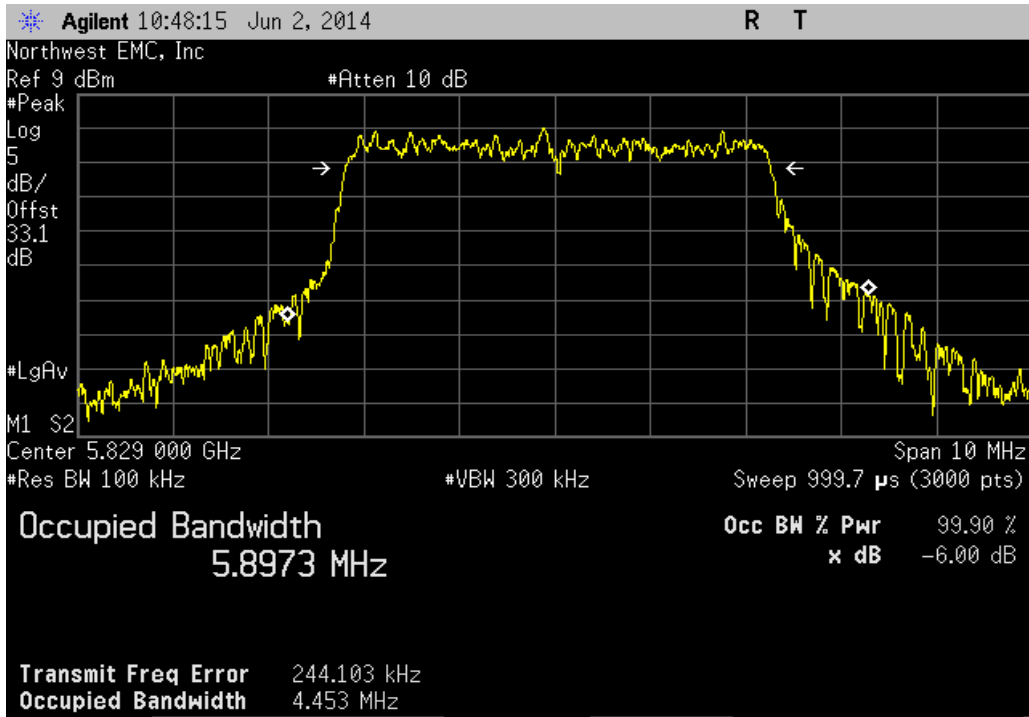
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5784 MHz

Value	Limit	Result
4.441 MHz	> 500 kHz	Pass



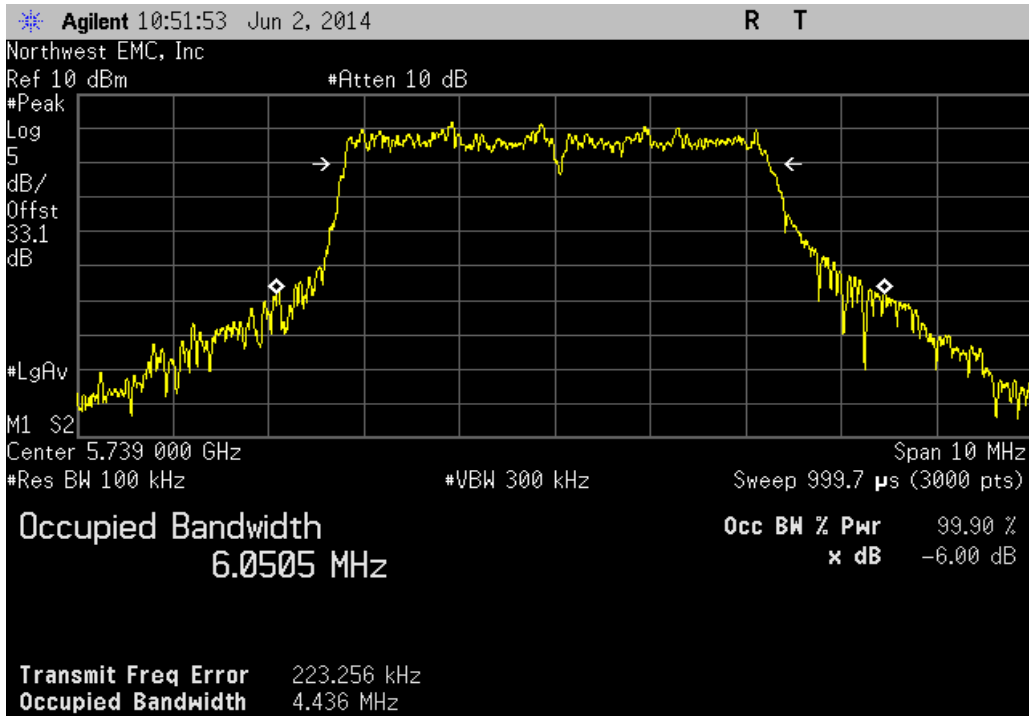
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
4.453 MHz	> 500 kHz	Pass



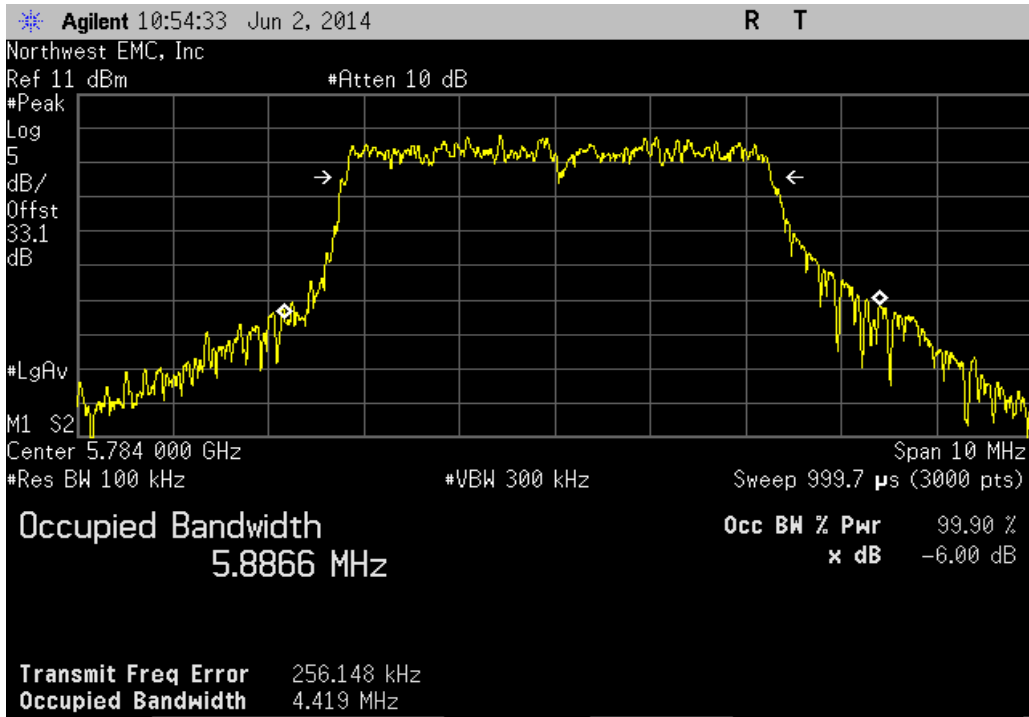
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
4.436 MHz	> 500 kHz	Pass



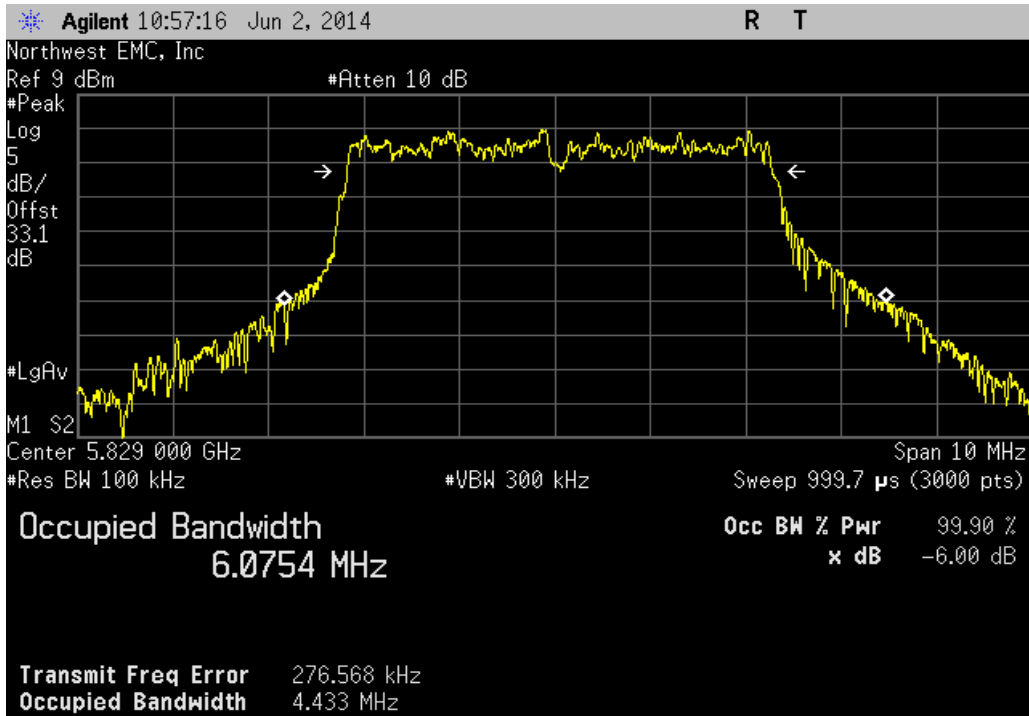
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

	Value	Limit	Result
	4.419 MHz	> 500 kHz	Pass



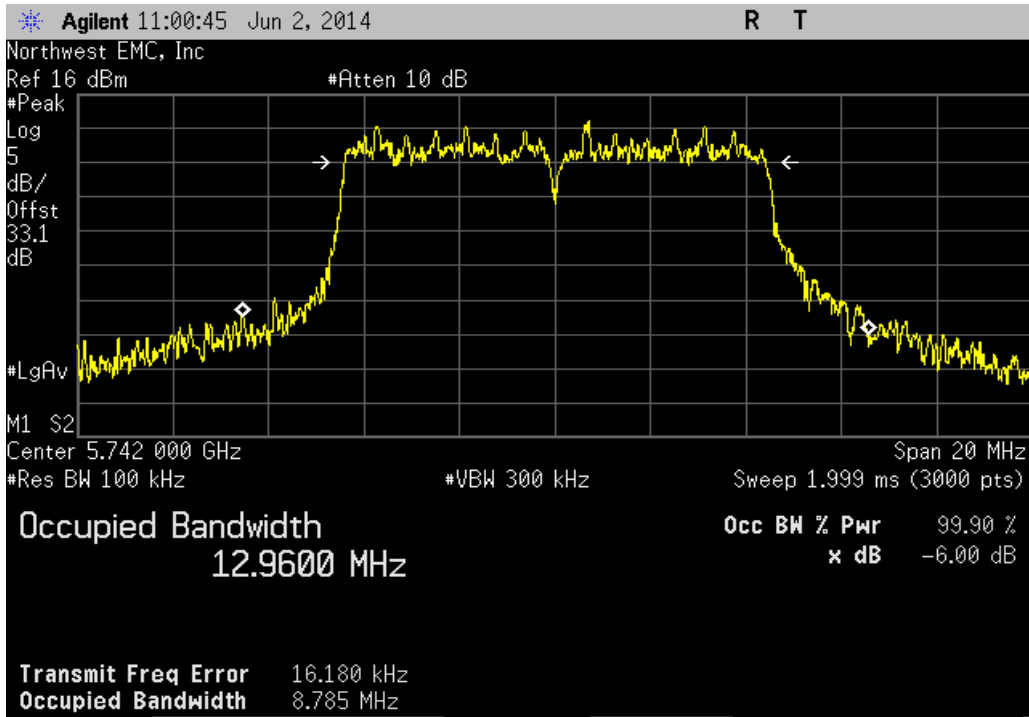
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

	Value	Limit	Result
	4.433 MHz	> 500 kHz	Pass



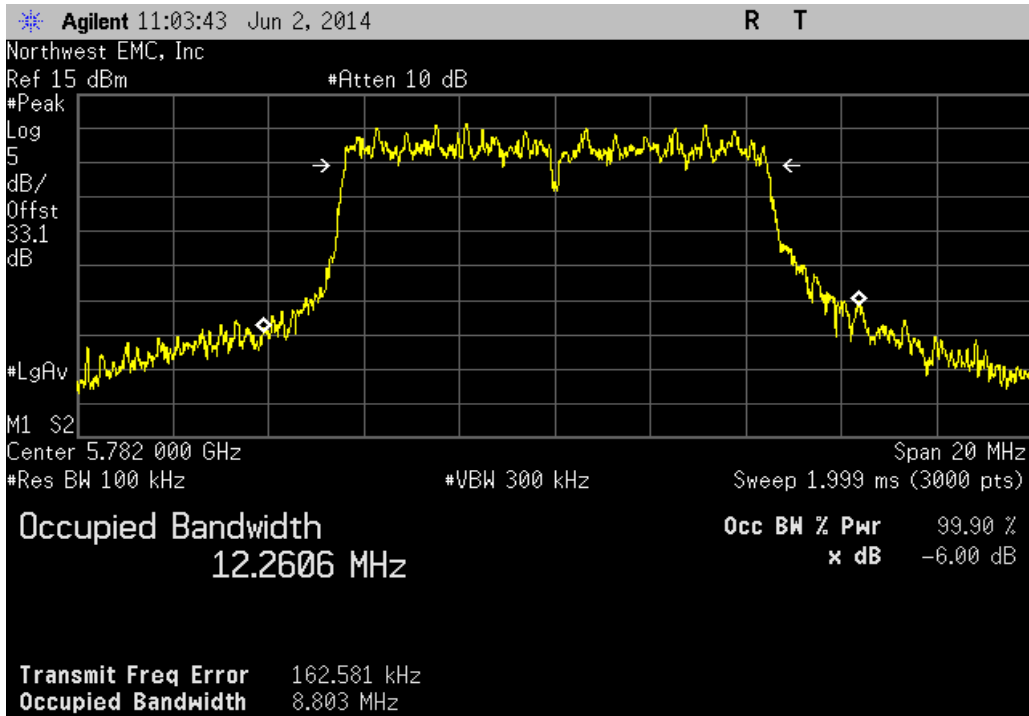
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

Value	Limit	Result
8.785 MHz	> 500 kHz	Pass



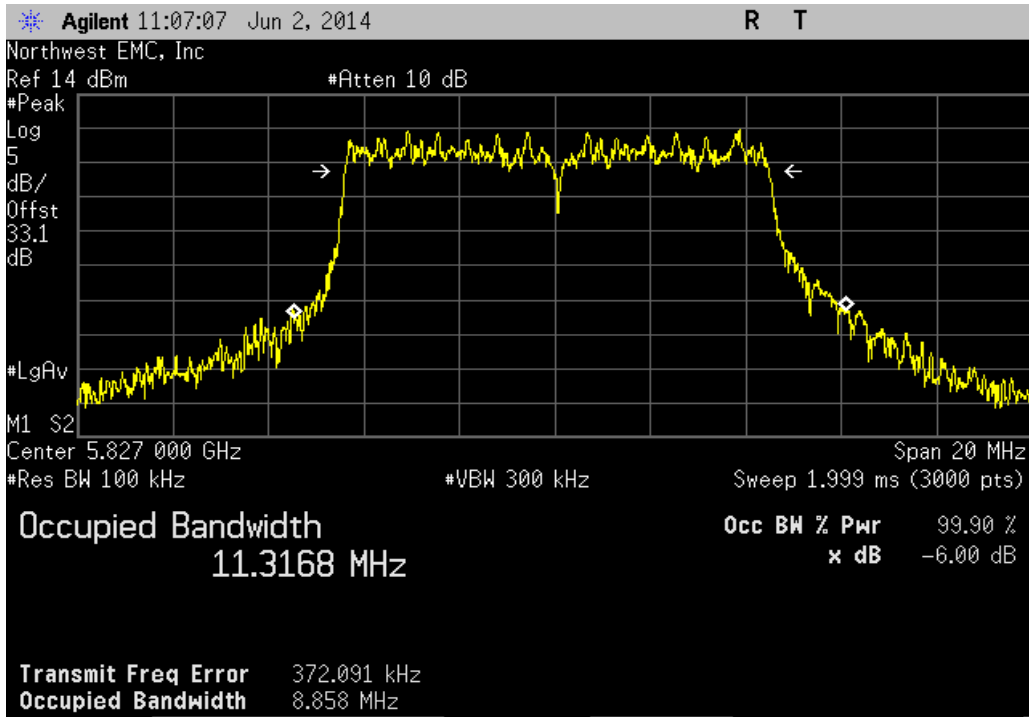
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5782 MHz

Value	Limit	Result
8.803 MHz	> 500 kHz	Pass



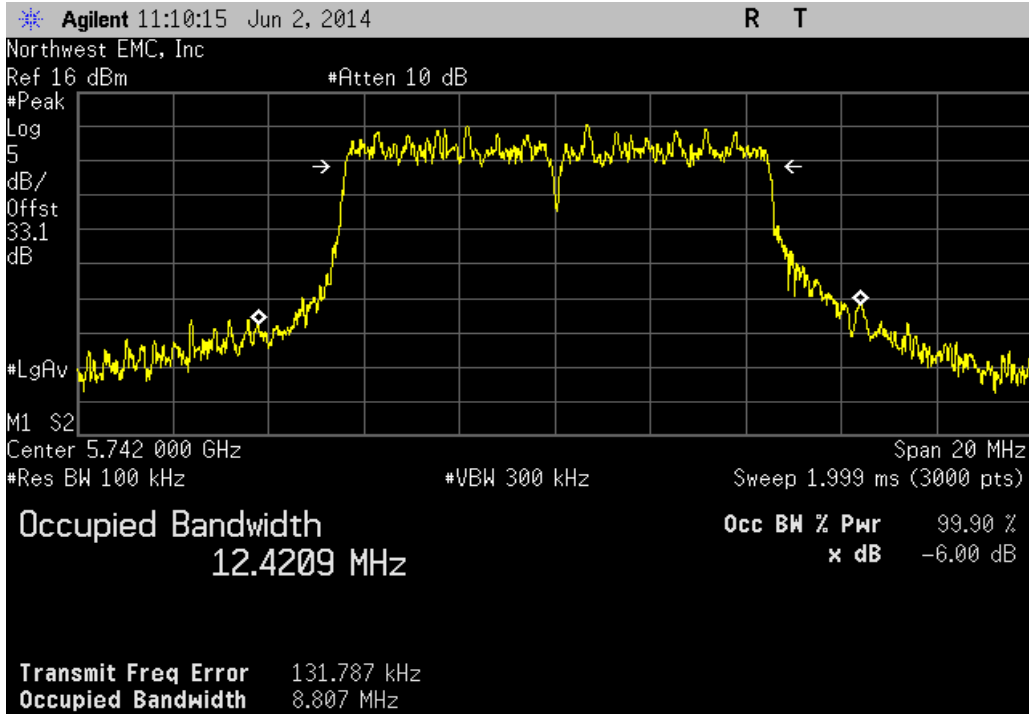
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5827 MHz

Value	Limit	Result
8.858 MHz	> 500 kHz	Pass

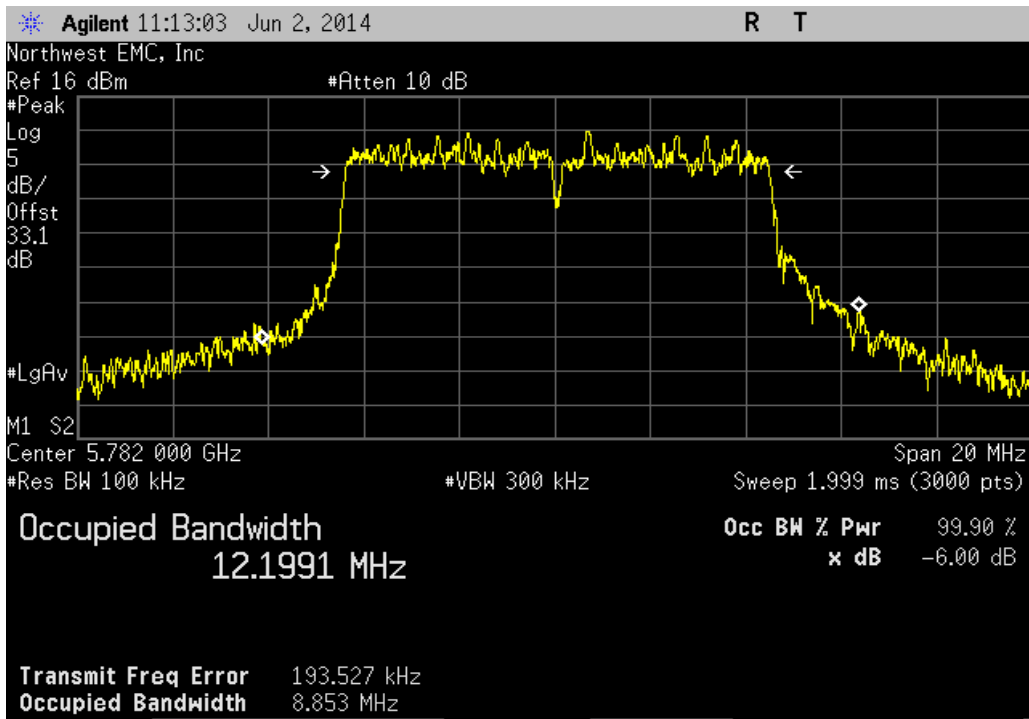


Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

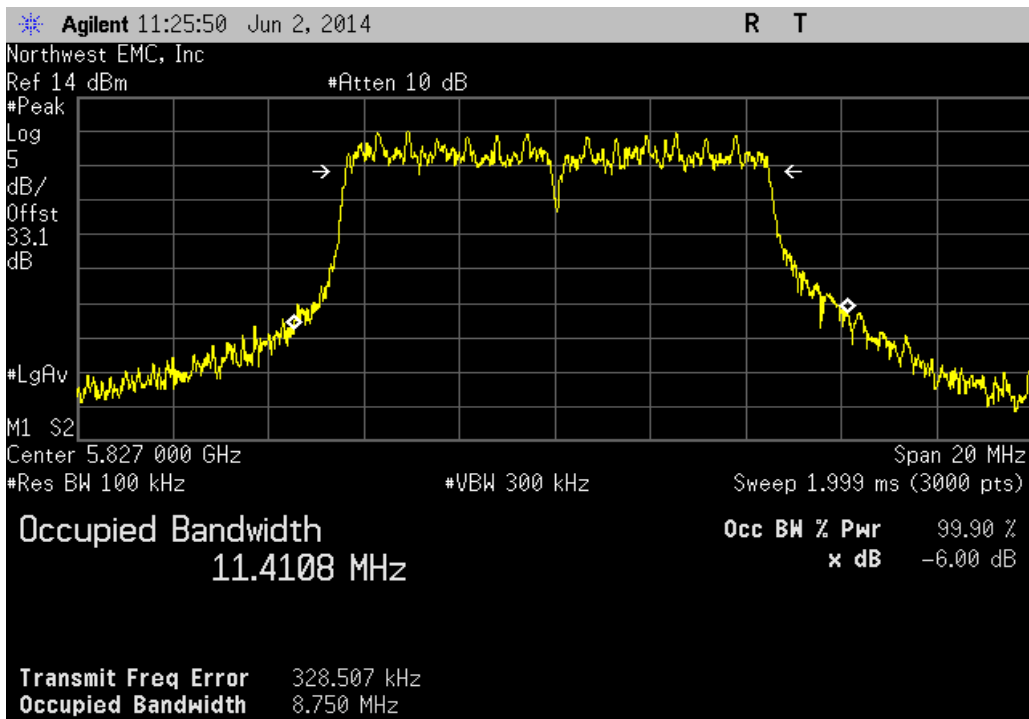
Value	Limit	Result
8.807 MHz	> 500 kHz	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz			
	Value	Limit	Result
	8.853 MHz	> 500 kHz	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz			
	Value	Limit	Result
	8.75 MHz	> 500 kHz	Pass



OCCUPIED BANDWIDTH - 3x3 MIMO

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.	Interval (mo)
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to low, medium and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

EUT:	WavePoint - 5GHz Radio (W5800-01)	Work Order:	FREW0028
Serial Number:	00:07:E7:A0:01:F1	Date:	06/03/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22.6°C
Attendees:	Dean Busch	Humidity:	43%
Project:	None	Barometric Pres.:	1018.7
Tested by:	Brandon Hobbs, Jared Ison	Power:	110VAC/60Hz
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method	
FCC 15.247:2014		ANSI C63.10:2009	

COMMENTS
An additional 10dB 5watt attenuator was used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

DEVIATIONS FROM TEST STANDARD

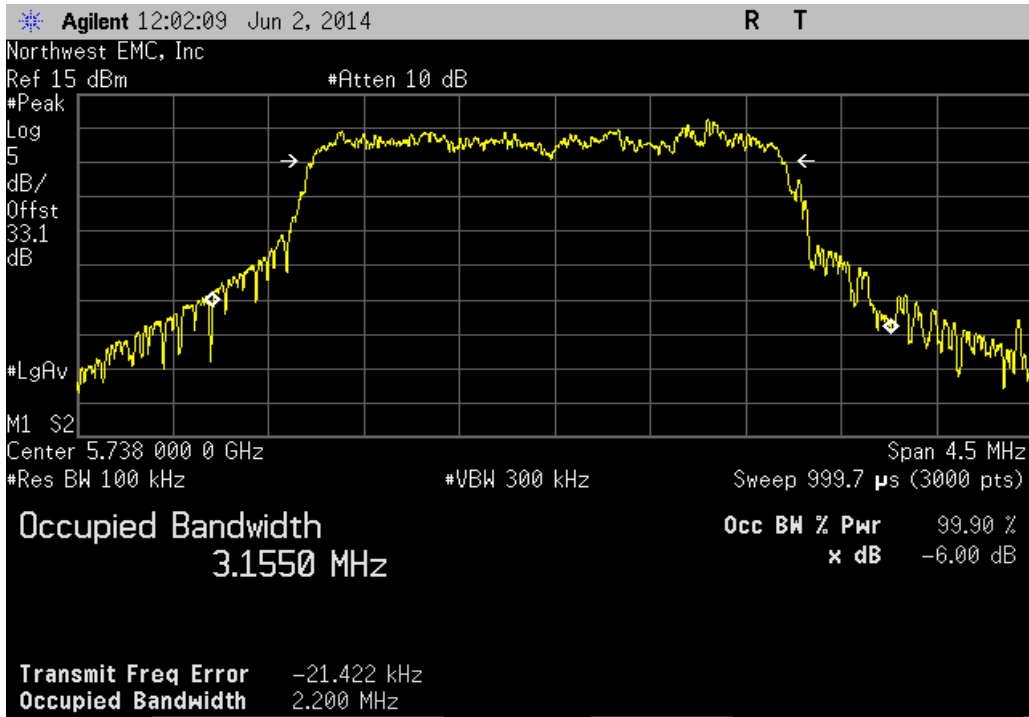
Configuration #	1	Signature	
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		Value	Limit	Result
Chain 1	5725 MHz - 5850 MHz Band			
	2.5MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 668, 5738MHz	2.2 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.18 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.191 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 668, 5738MHz	2.22 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.21 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.205 MHz	> 500 kHz	Pass
	5MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 669, 5739MHz	4.421 MHz	> 500 kHz	Pass
	Mid Channel 714, 5784MHz	4.438 MHz	> 500 kHz	Pass
	High Channel 759, 5829MHz	4.429 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 669, 5739MHz	4.436 MHz	> 500 kHz	Pass
	Mid Channel 714, 5784MHz	4.398 MHz	> 500 kHz	Pass
	High Channel 759, 5829MHz	4.425 MHz	> 500 kHz	Pass
	10MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 672, 5742MHz	8.791 MHz	> 500 kHz	Pass
	Mid Channel 712, 5782MHz	8.768 MHz	> 500 kHz	Pass
	High Channel 757, 5827MHz	8.812 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 672, 5742MHz	8.829 MHz	> 500 kHz	Pass
	Mid Channel 712, 5782MHz	8.728 MHz	> 500 kHz	Pass
	High Channel 757, 5827MHz	8.833 MHz	> 500 kHz	Pass
Chain 2	5725 MHz - 5850 MHz Band			
	2.5MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 668, 5738MHz	2.235 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.245 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.242 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 668, 5738MHz	2.233 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.253 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.249 MHz	> 500 kHz	Pass
	5MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 669, 5739MHz	4.429 MHz	> 500 kHz	Pass
	Mid Channel 714, 5784MHz	4.411 MHz	> 500 kHz	Pass
	High Channel 759, 5829MHz	4.374 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 669, 5739MHz	4.459 MHz	> 500 kHz	Pass
	Mid Channel 714, 5784MHz	4.378 MHz	> 500 kHz	Pass
	High Channel 759, 5829MHz	4.422 MHz	> 500 kHz	Pass
	10MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 672, 5742MHz	8.85 MHz	> 500 kHz	Pass
	Mid Channel 712, 5782MHz	8.81 MHz	> 500 kHz	Pass
	High Channel 757, 5827MHz	8.828 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 672, 5742MHz	8.846 MHz	> 500 kHz	Pass
	Mid Channel 712, 5782MHz	8.838 MHz	> 500 kHz	Pass
	High Channel 757, 5827MHz	8.845 MHz	> 500 kHz	Pass
Chain 3	5725 MHz - 5850 MHz Band			
	2.5MHz Bandwidth			
	3x3 Modulation Type, BPSK, Coding Rate, 1/2.			
	Low Channel 668, 5738MHz	2.247 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.219 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.216 MHz	> 500 kHz	Pass
	3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.			
	Low Channel 668, 5738MHz	2.217 MHz	> 500 kHz	Pass
	Mid Channel 713, 5783MHz	2.226 MHz	> 500 kHz	Pass
	High Channel 761, 5831MHz	2.241 MHz	> 500 kHz	Pass

5MHz Bandwidth				
3x3 Modulation Type, BPSK, Coding Rate, 1/2.				
Low Channel 669, 5739MHz	4.445 MHz	> 500 kHz	Pass	
Mid Channel 714, 5784MHz	4.44 MHz	> 500 kHz	Pass	
High Channel 759, 5829MHz	4.458 MHz	> 500 kHz	Pass	
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.				
Low Channel 669, 5739MHz	4.433 MHz	> 500 kHz	Pass	
Mid Channel 714, 5784MHz	4.413 MHz	> 500 kHz	Pass	
High Channel 759, 5829MHz	4.405 MHz	> 500 kHz	Pass	
10MHz Bandwidth				
3x3 Modulation Type, BPSK, Coding Rate, 1/2.				
Low Channel 672, 5742MHz	8.825 MHz	> 500 kHz	Pass	
Mid Channel 712, 5782MHz	8.86 MHz	> 500 kHz	Pass	
High Channel 757, 5827MHz	8.854 MHz	> 500 kHz	Pass	
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.				
Low Channel 672, 5742MHz	8.85 MHz	> 500 kHz	Pass	
Mid Channel 712, 5782MHz	8.861 MHz	> 500 kHz	Pass	
High Channel 757, 5827MHz	8.874 MHz	> 500 kHz	Pass	

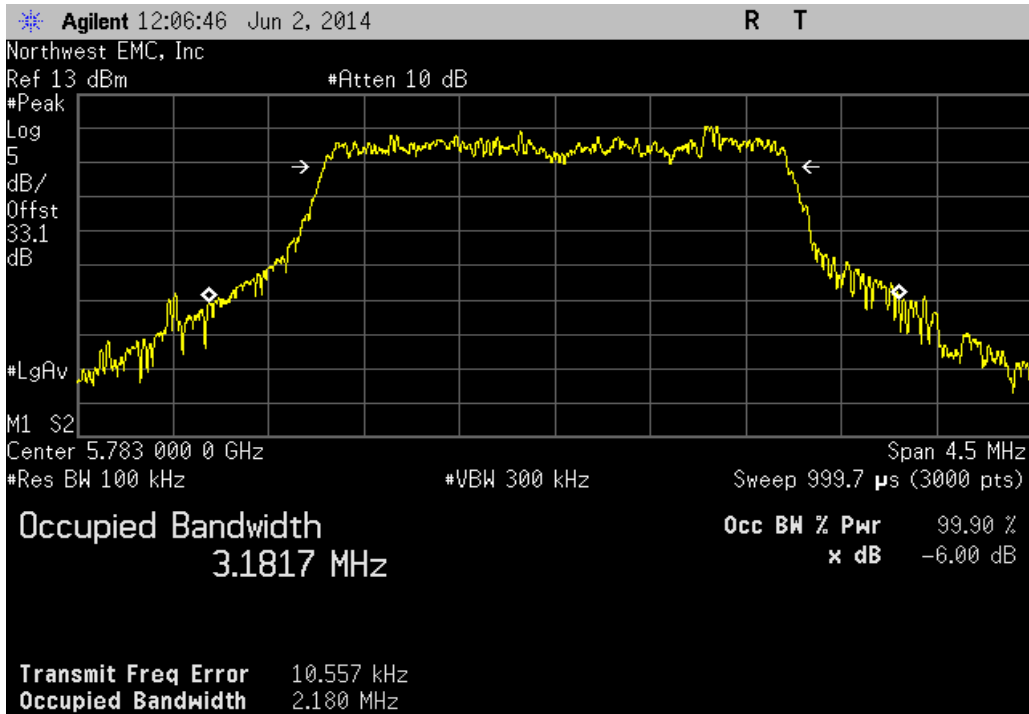
Chain 1, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth, 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.2 MHz	> 500 kHz	Pass



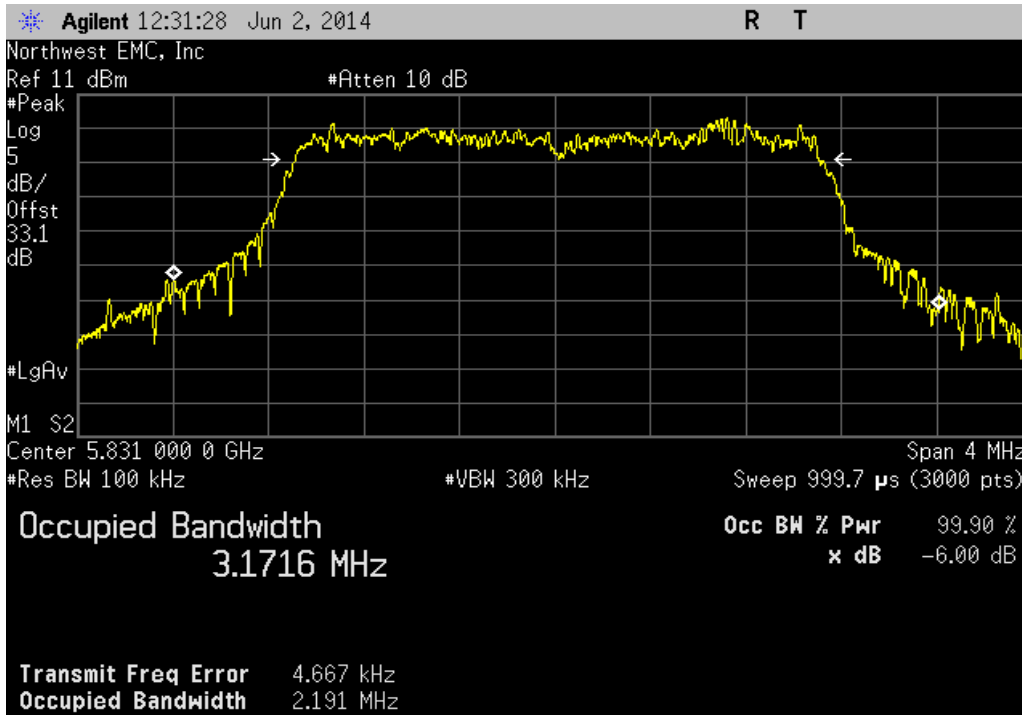
Chain 1, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth, 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.18 MHz	> 500 kHz	Pass



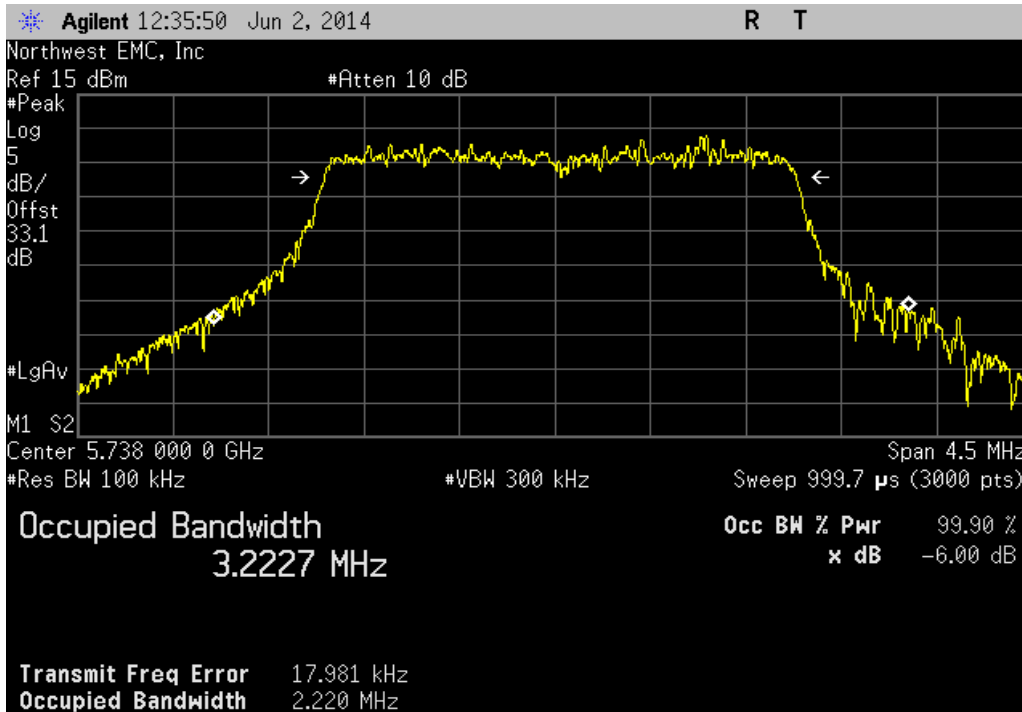
Chain 1 , 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 761, 5831MHz

	Value	Limit	Result
	2.191 MHz	> 500 kHz	Pass



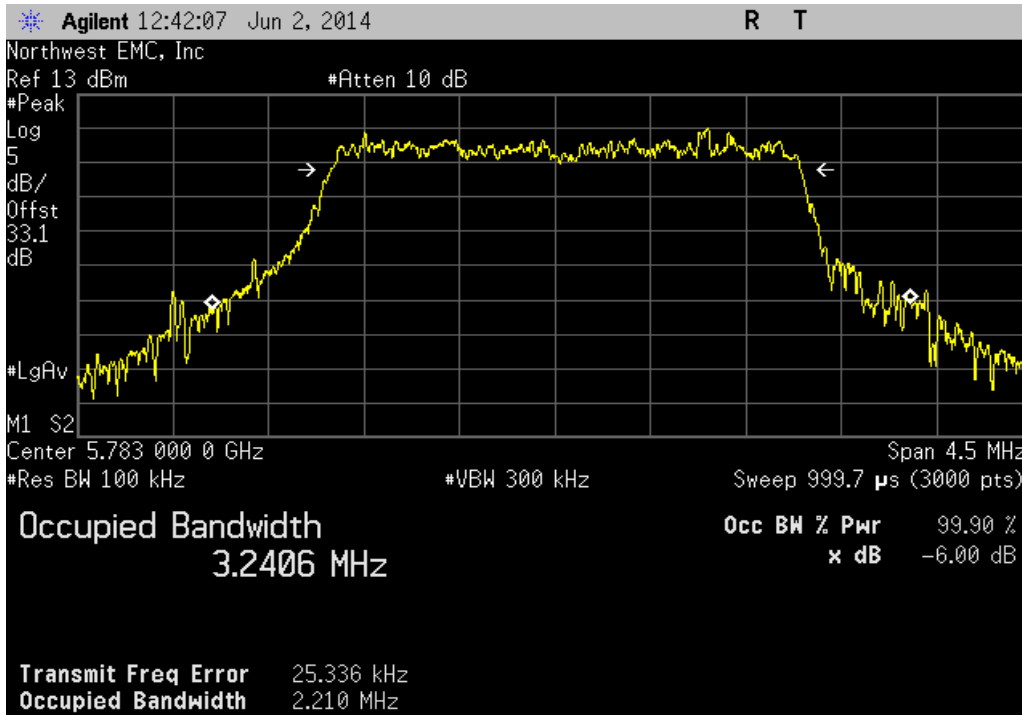
Chain 1 , 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.22 MHz	> 500 kHz	Pass



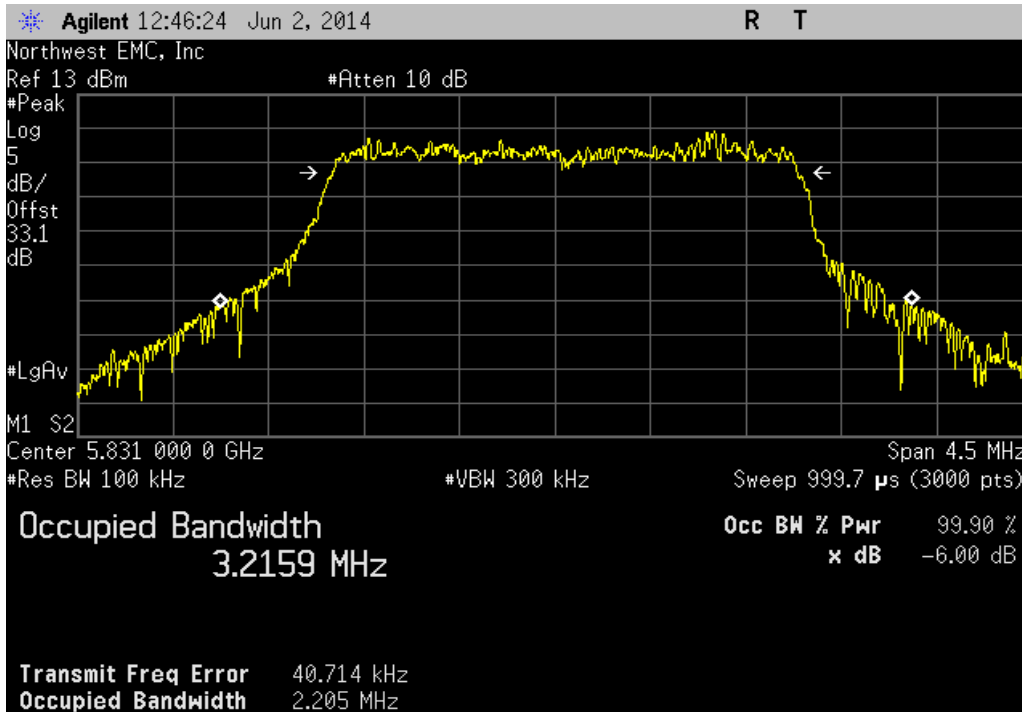
Chain 1 , 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.21 MHz	> 500 kHz	Pass



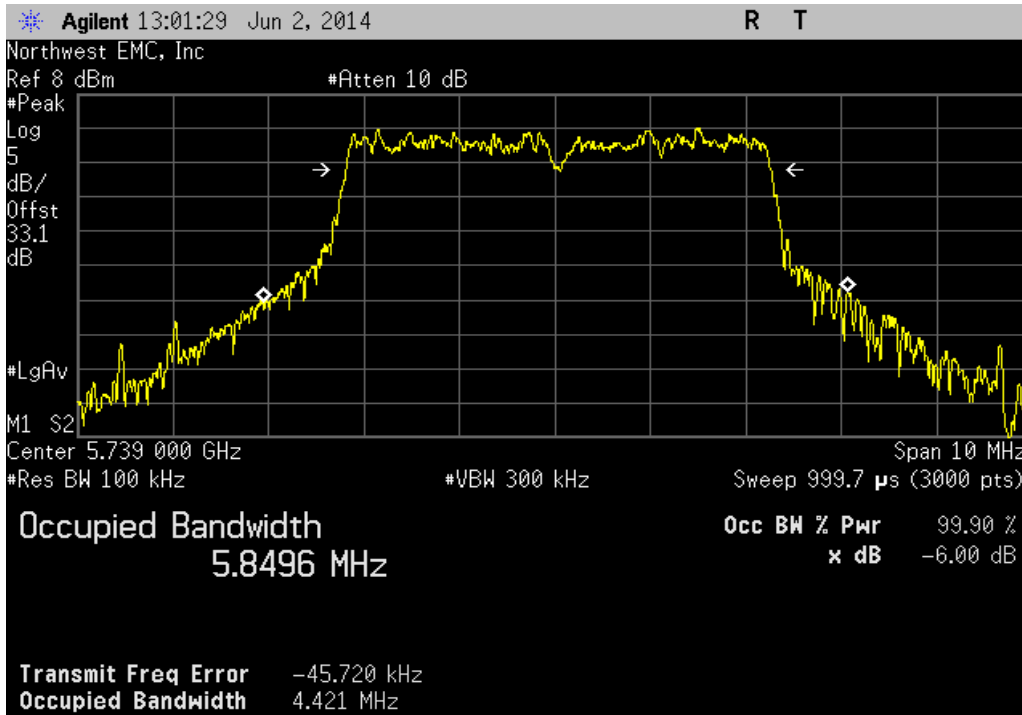
Chain 1 , 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 761, 5831MHz

	Value	Limit	Result
	2.205 MHz	> 500 kHz	Pass



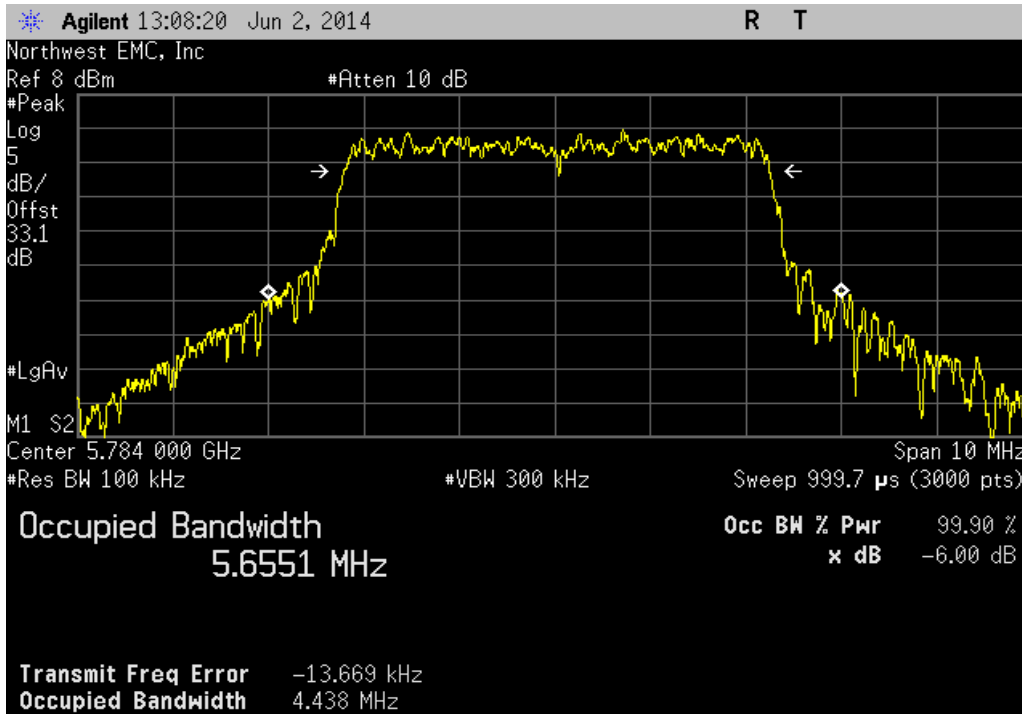
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 669, 5739MHz

	Value	Limit	Result
	4.421 MHz	> 500 kHz	Pass



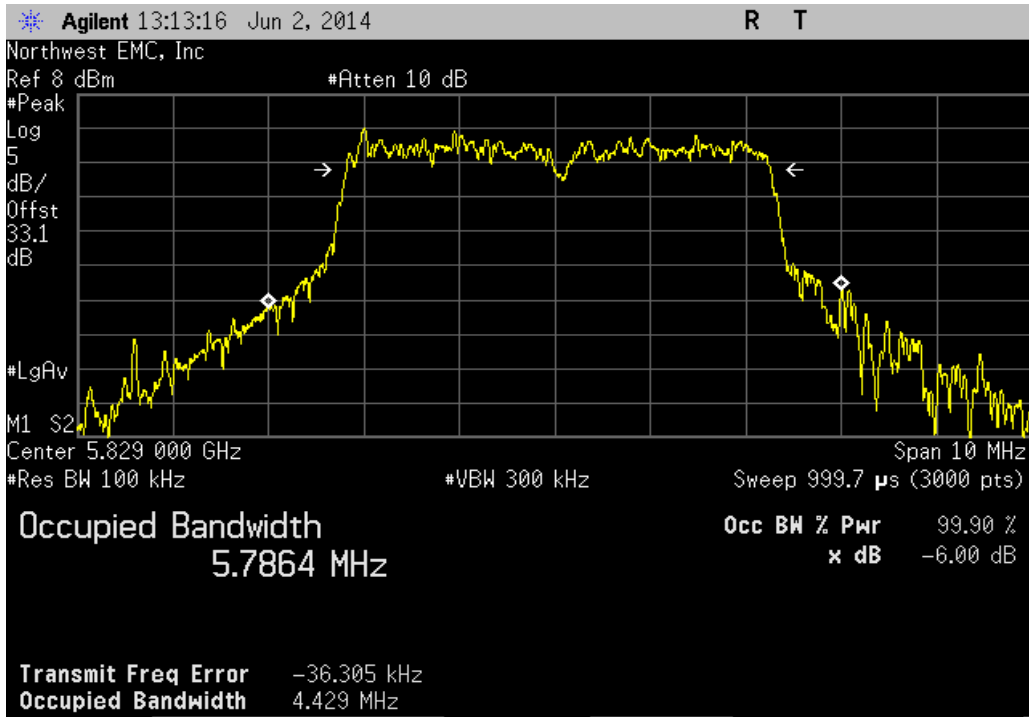
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 714, 5784MHz

	Value	Limit	Result
	4.438 MHz	> 500 kHz	Pass



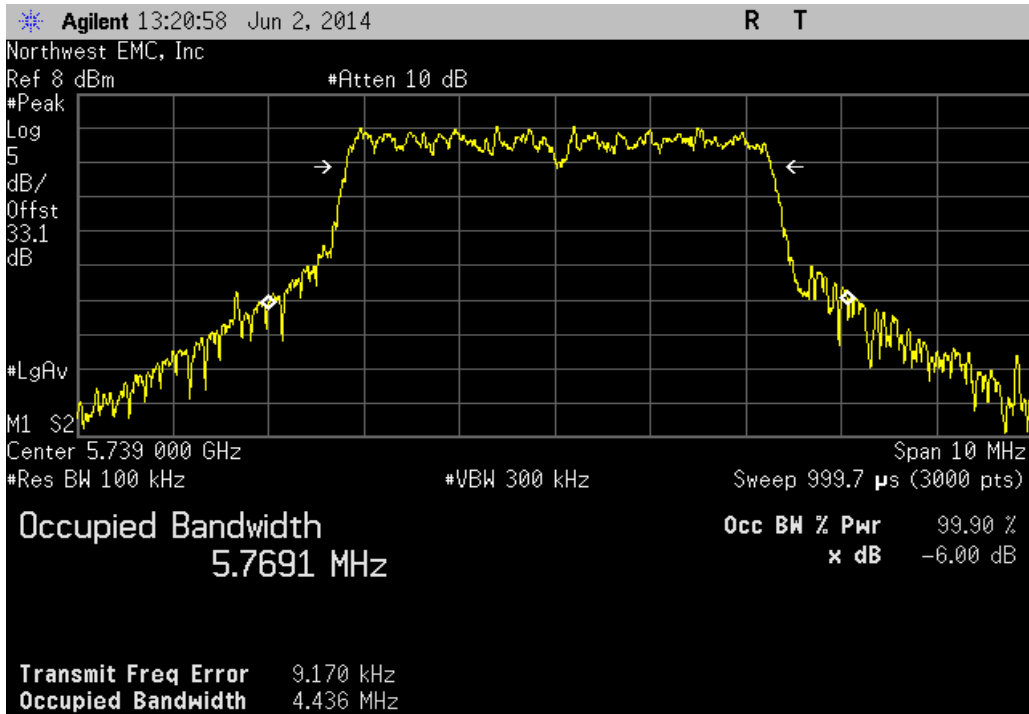
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 759, 5829MHz

	Value	Limit	Result
	4.429 MHz	> 500 kHz	Pass



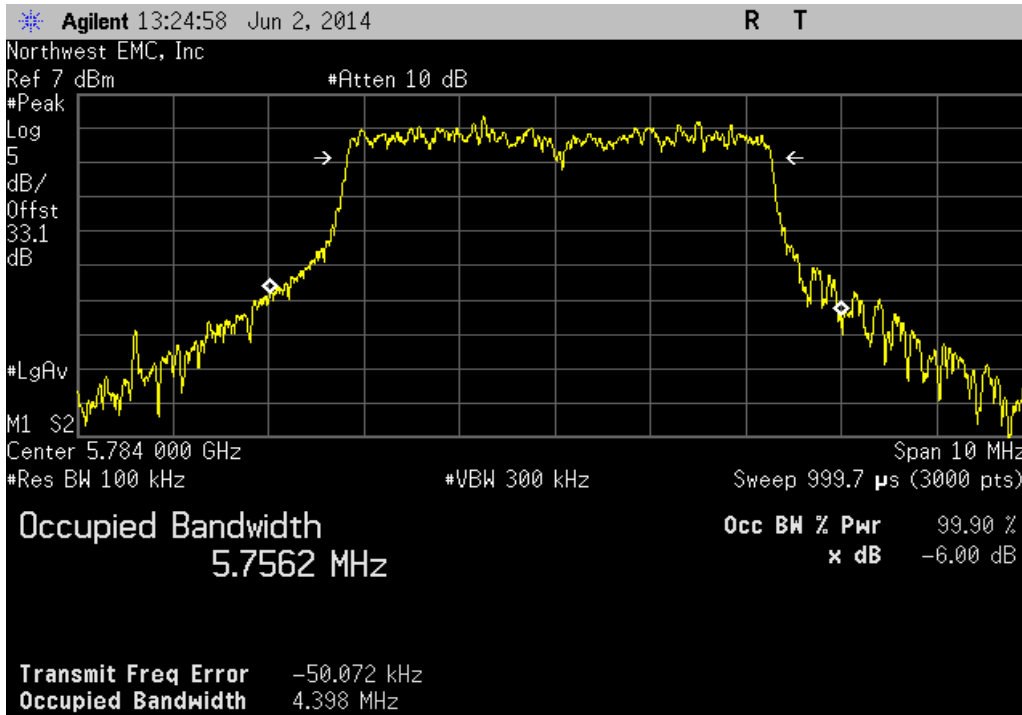
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 669, 5739MHz

	Value	Limit	Result
	4.436 MHz	> 500 kHz	Pass



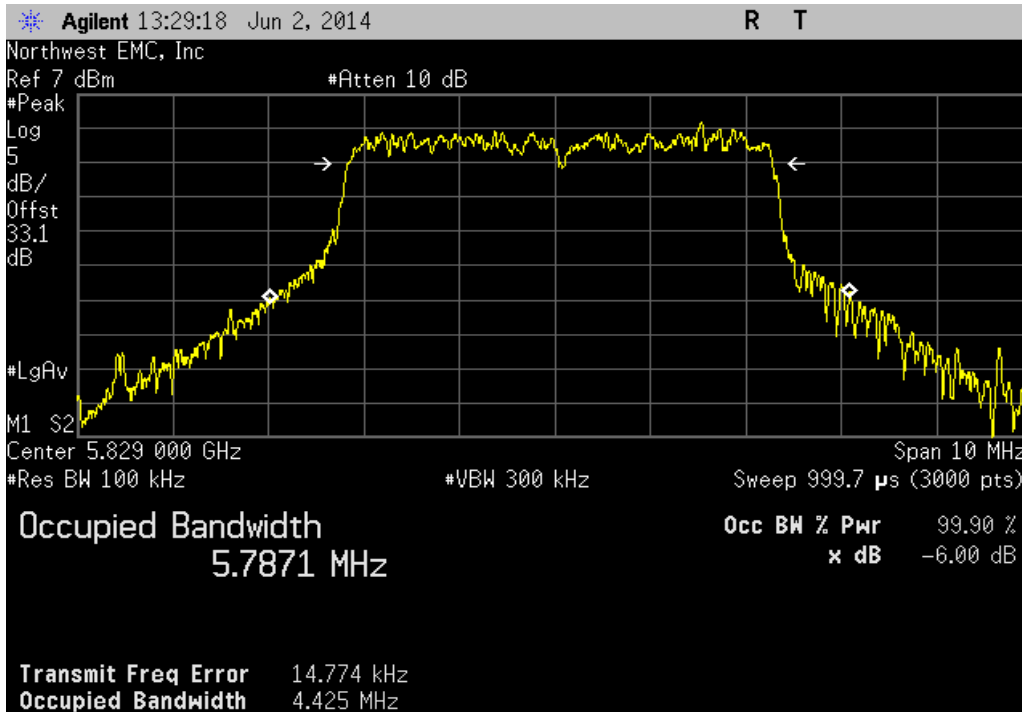
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 714, 5784MHz

	Value	Limit	Result
	4.398 MHz	> 500 kHz	Pass



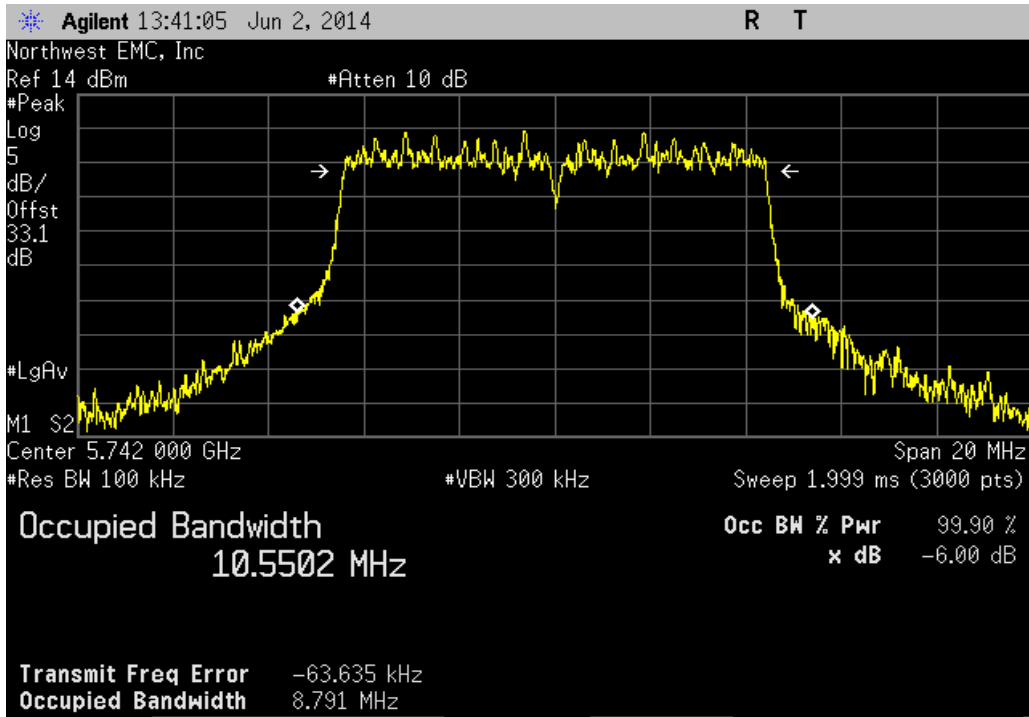
Chain 1 , 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 759, 5829MHz

	Value	Limit	Result
	4.425 MHz	> 500 kHz	Pass



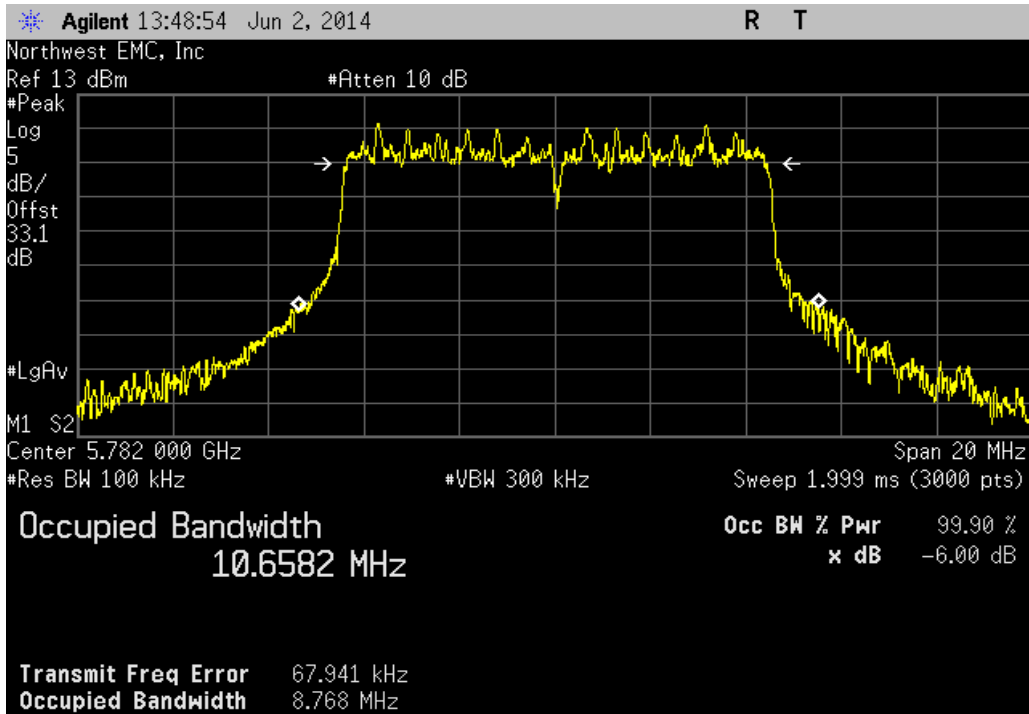
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 672, 5742MHz

	Value	Limit	Result
	8.791 MHz	> 500 kHz	Pass



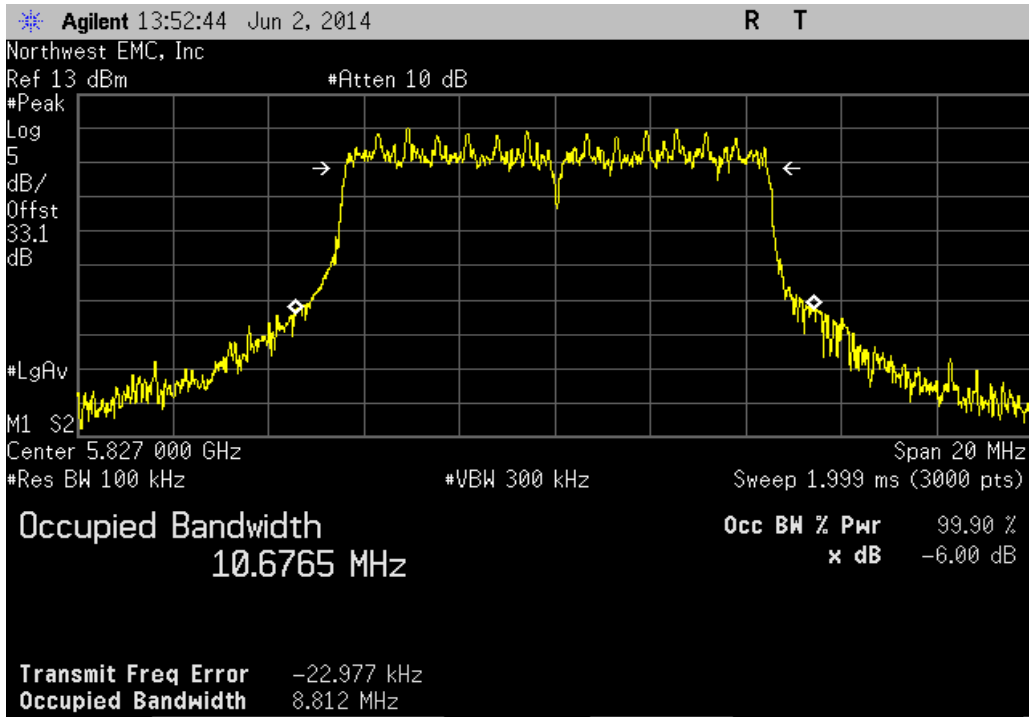
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 712, 5782MHz

	Value	Limit	Result
	8.768 MHz	> 500 kHz	Pass



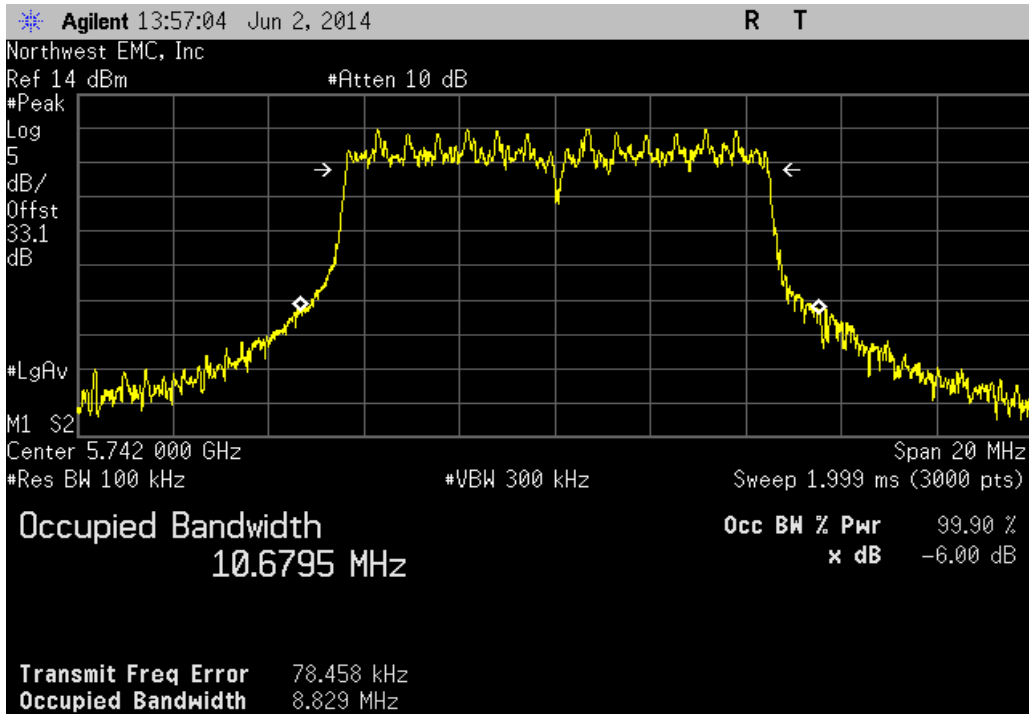
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 757, 5827MHz

Value	Limit	Result
8.812 MHz	> 500 kHz	Pass



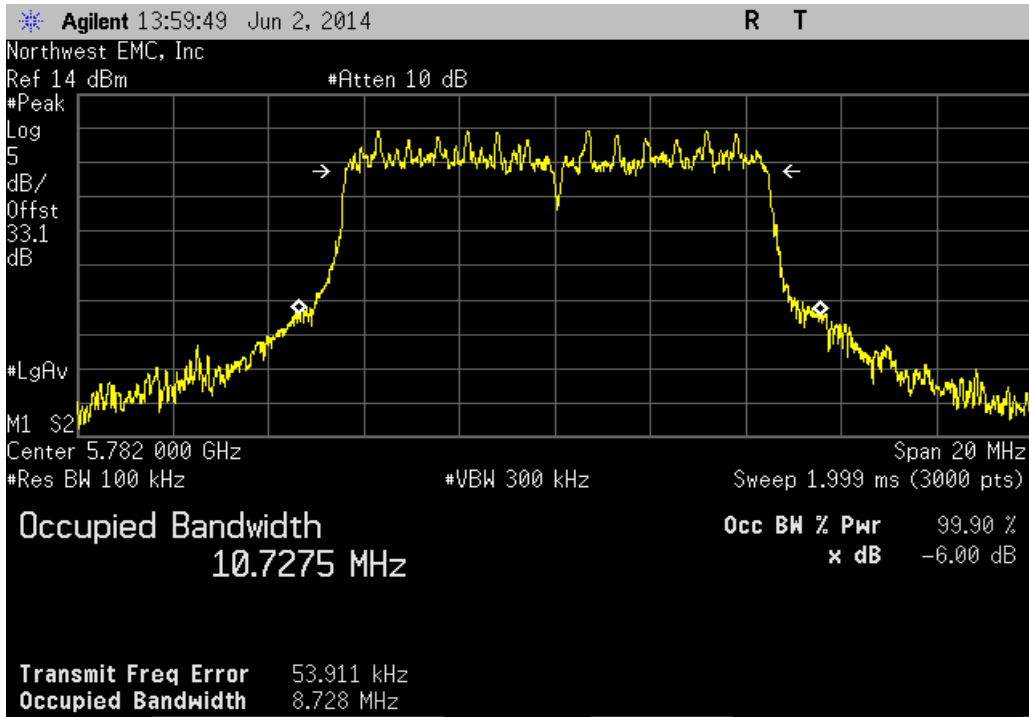
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 672, 5742MHz

Value	Limit	Result
8.829 MHz	> 500 kHz	Pass



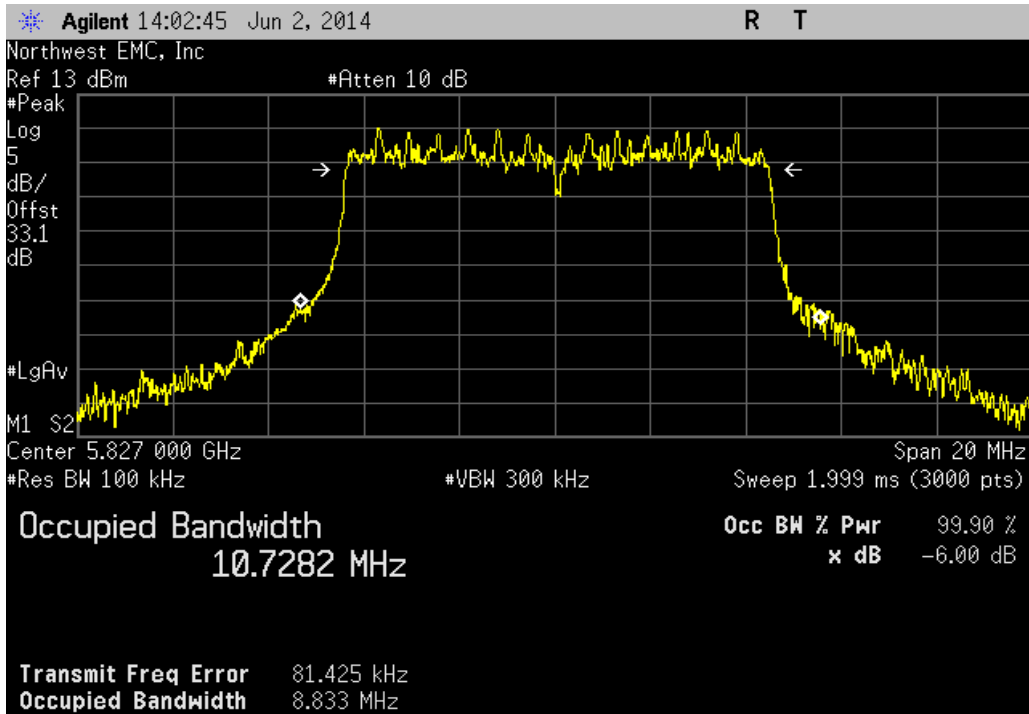
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 712, 5782MHz

	Value	Limit	Result
	8.728 MHz	> 500 kHz	Pass



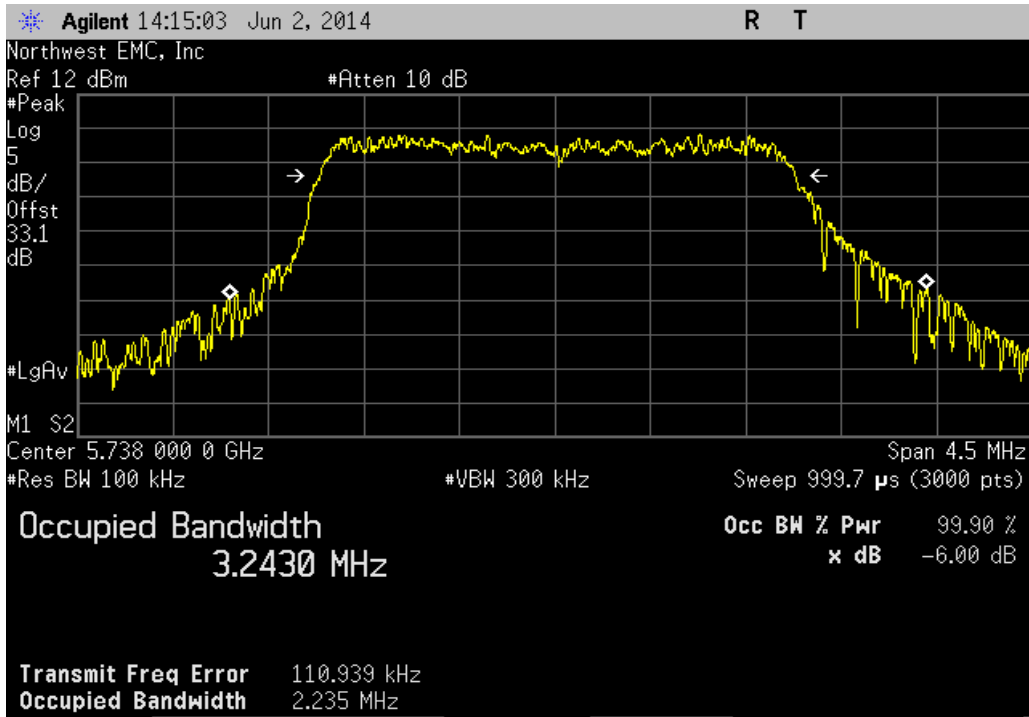
Chain 1 , 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 757, 5827MHz

	Value	Limit	Result
	8.833 MHz	> 500 kHz	Pass



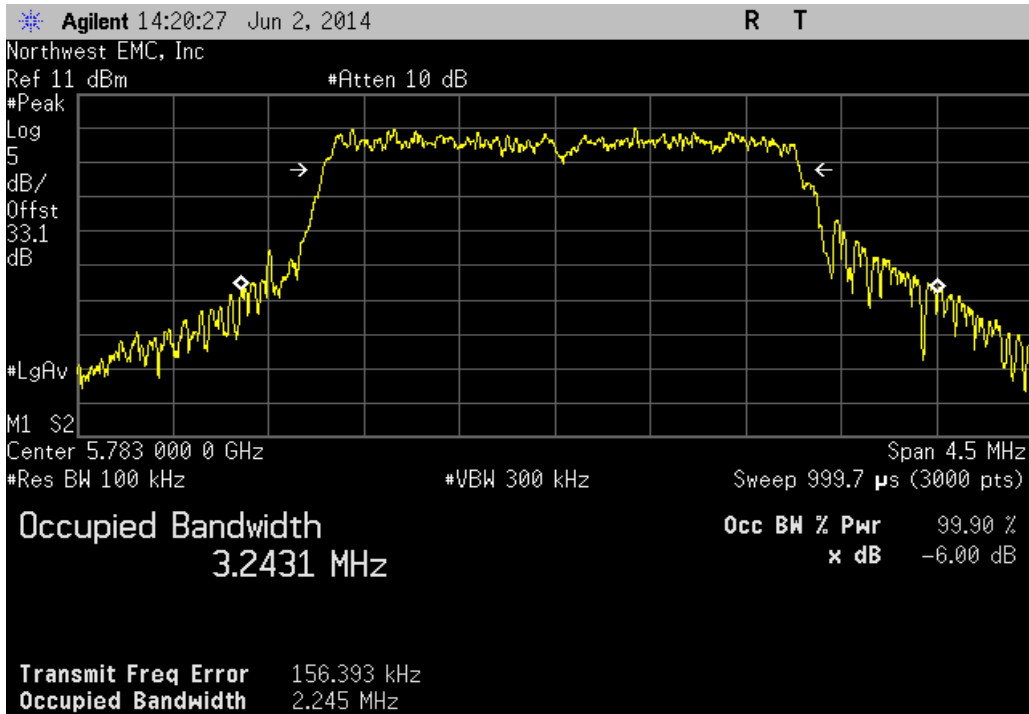
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.235 MHz	> 500 kHz	Pass



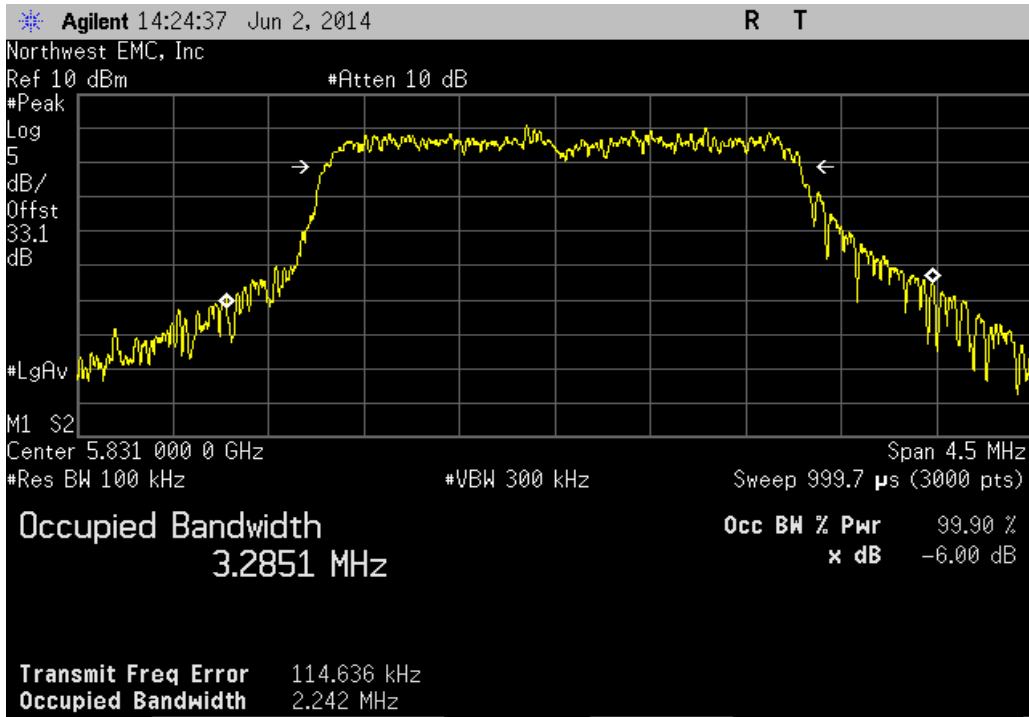
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.245 MHz	> 500 kHz	Pass



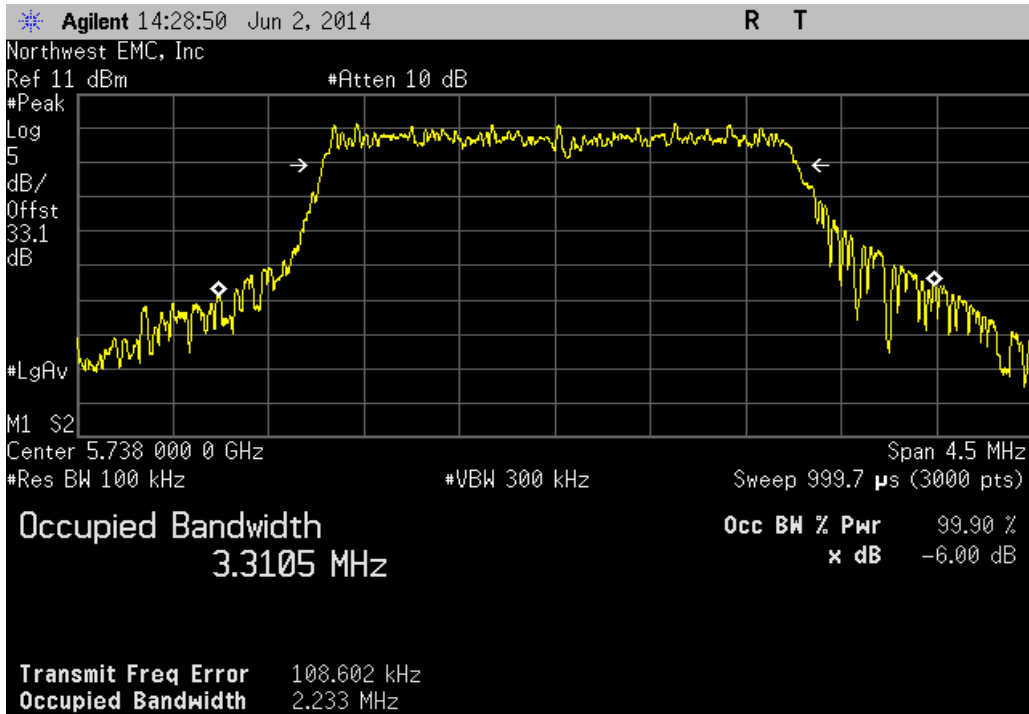
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth, 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 761, 5831MHz

	Value	Limit	Result
	2.242 MHz	> 500 kHz	Pass



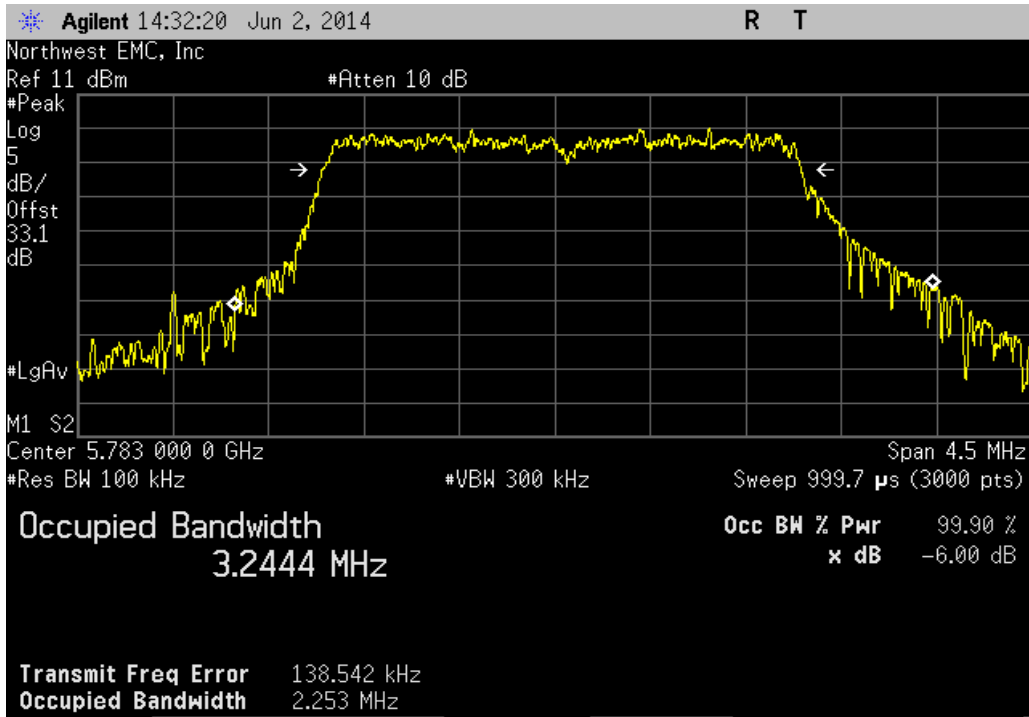
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth, 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.233 MHz	> 500 kHz	Pass



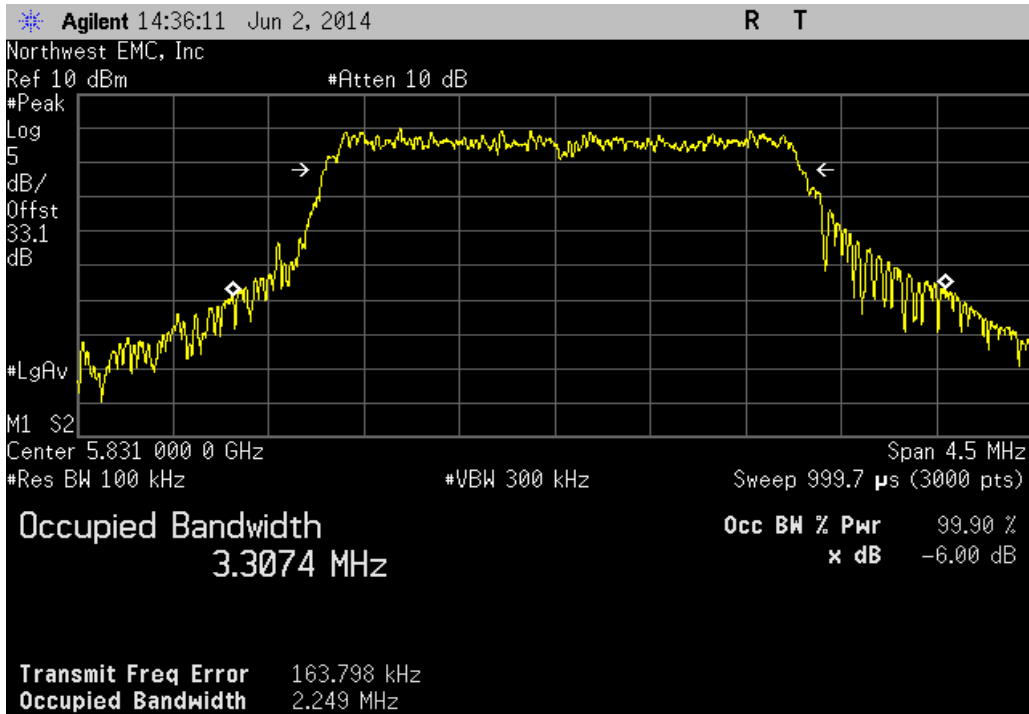
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.253 MHz	> 500 kHz	Pass



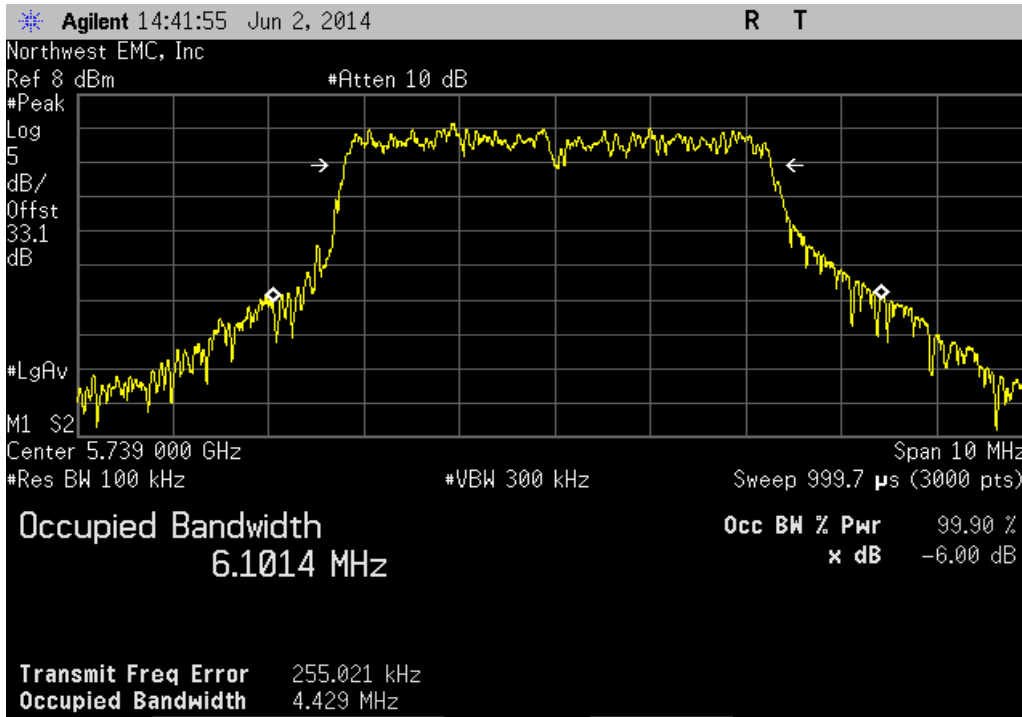
Chain 2, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 761, 5831MHz

	Value	Limit	Result
	2.249 MHz	> 500 kHz	Pass



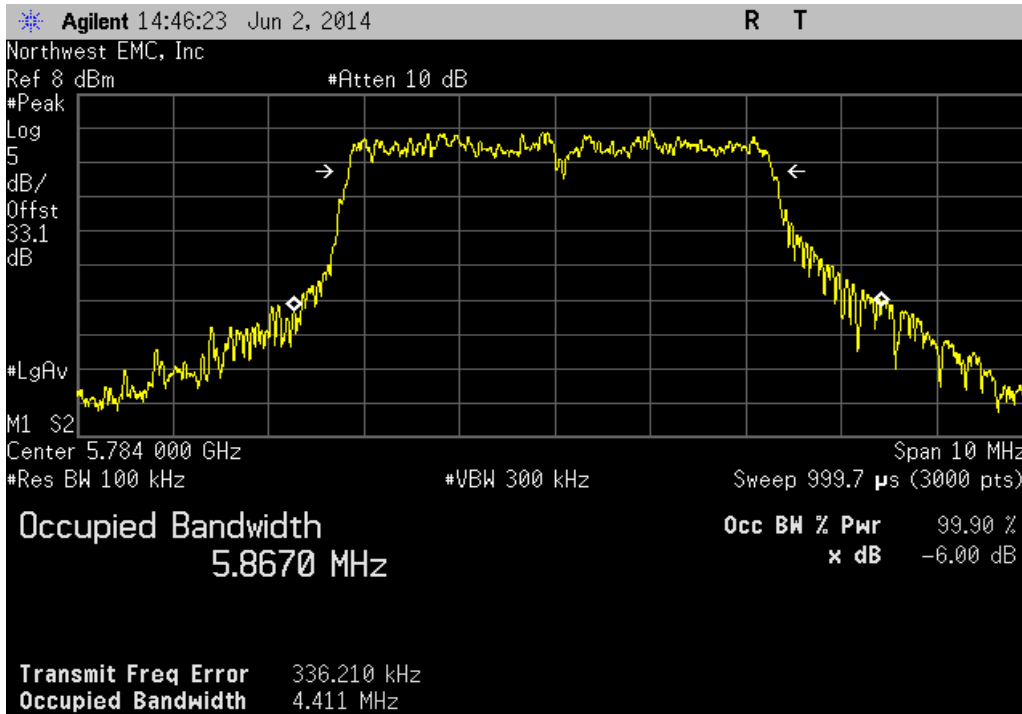
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 669, 5739MHz

Value	Limit	Result
4.429 MHz	> 500 kHz	Pass



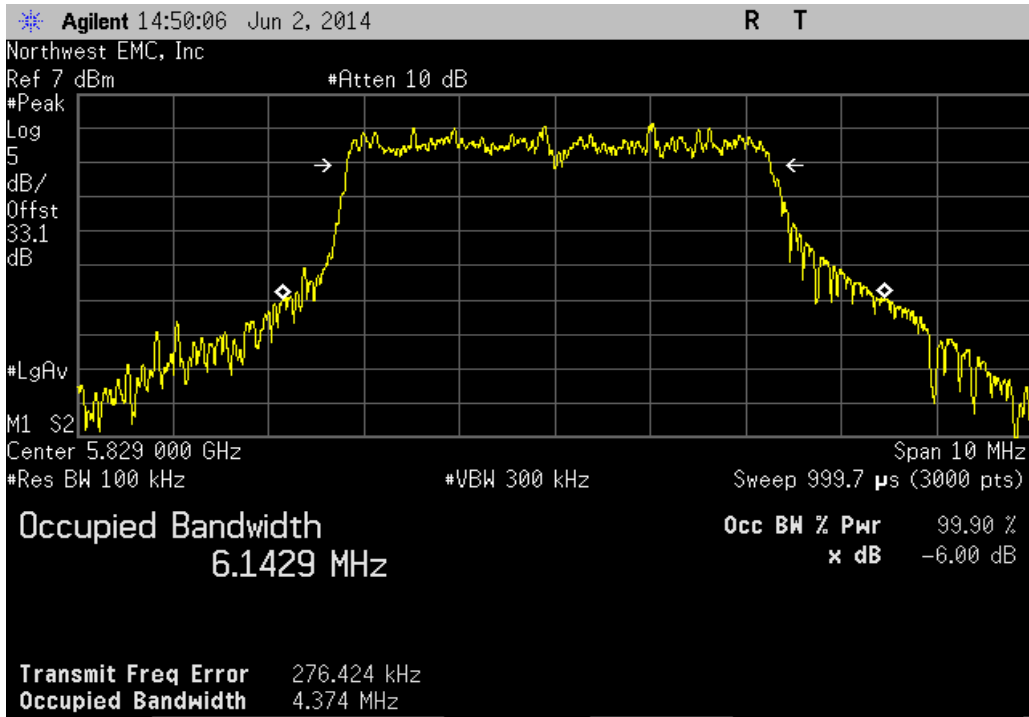
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 714, 5784MHz

Value	Limit	Result
4.411 MHz	> 500 kHz	Pass



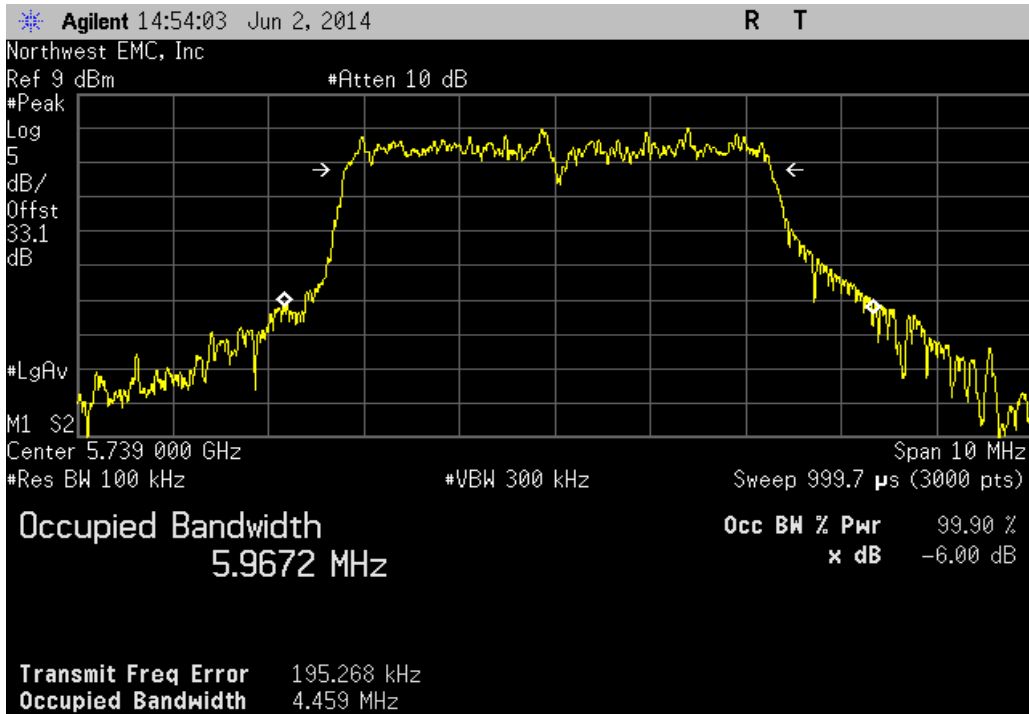
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 759, 5829MHz

	Value	Limit	Result
	4.374 MHz	> 500 kHz	Pass



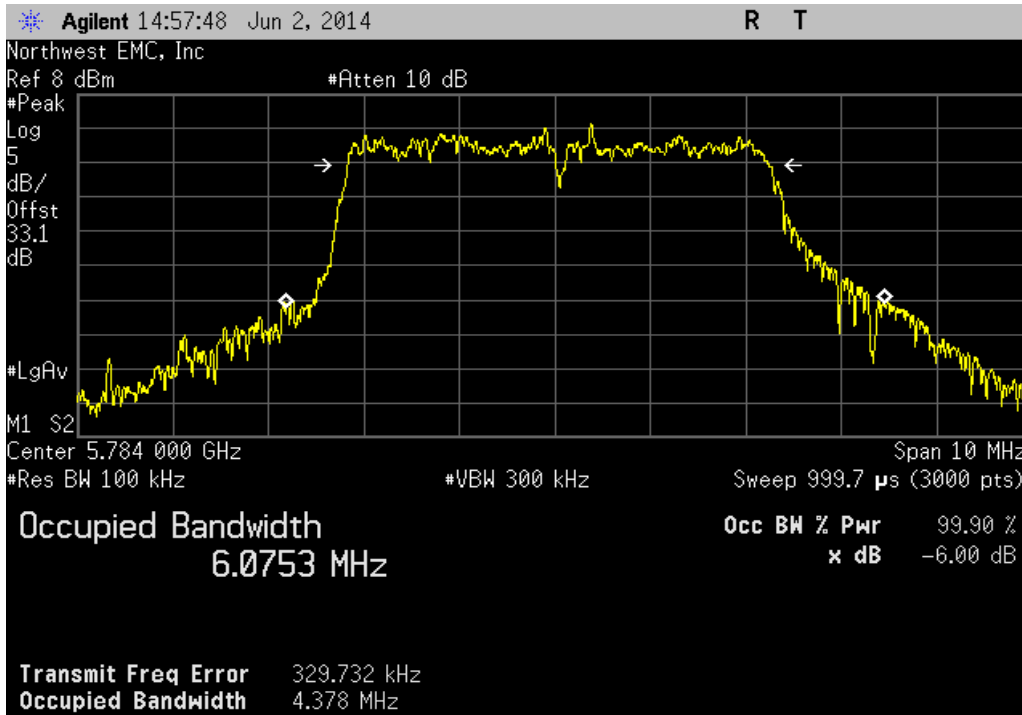
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 669, 5739MHz

	Value	Limit	Result
	4.459 MHz	> 500 kHz	Pass



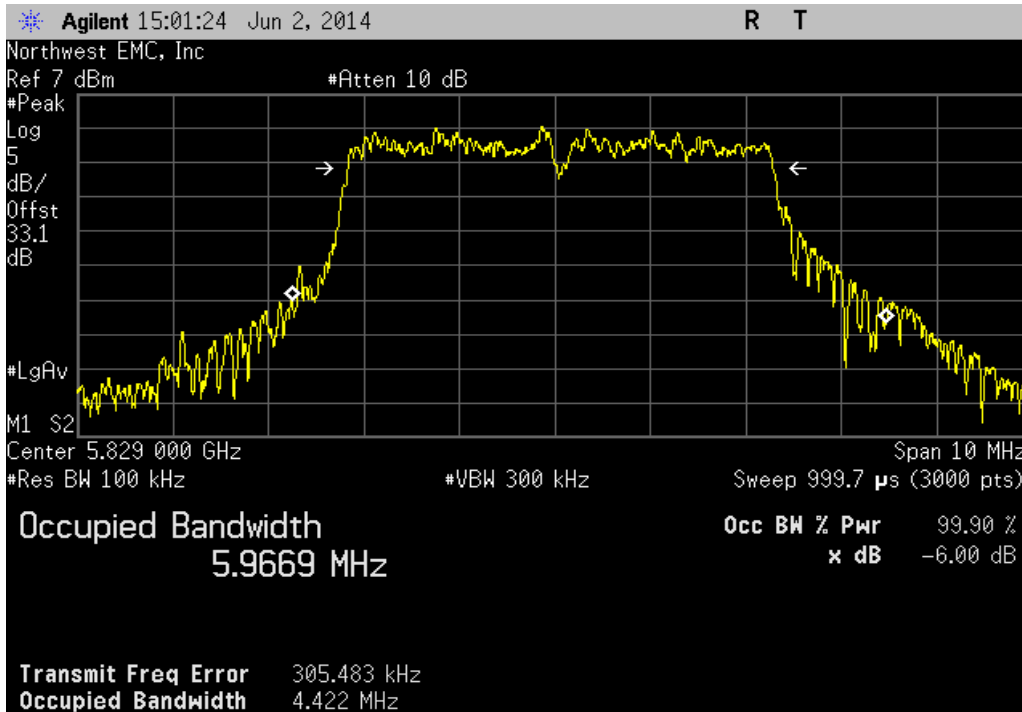
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 714, 5784MHz

Value	Limit	Result
4.378 MHz	> 500 kHz	Pass



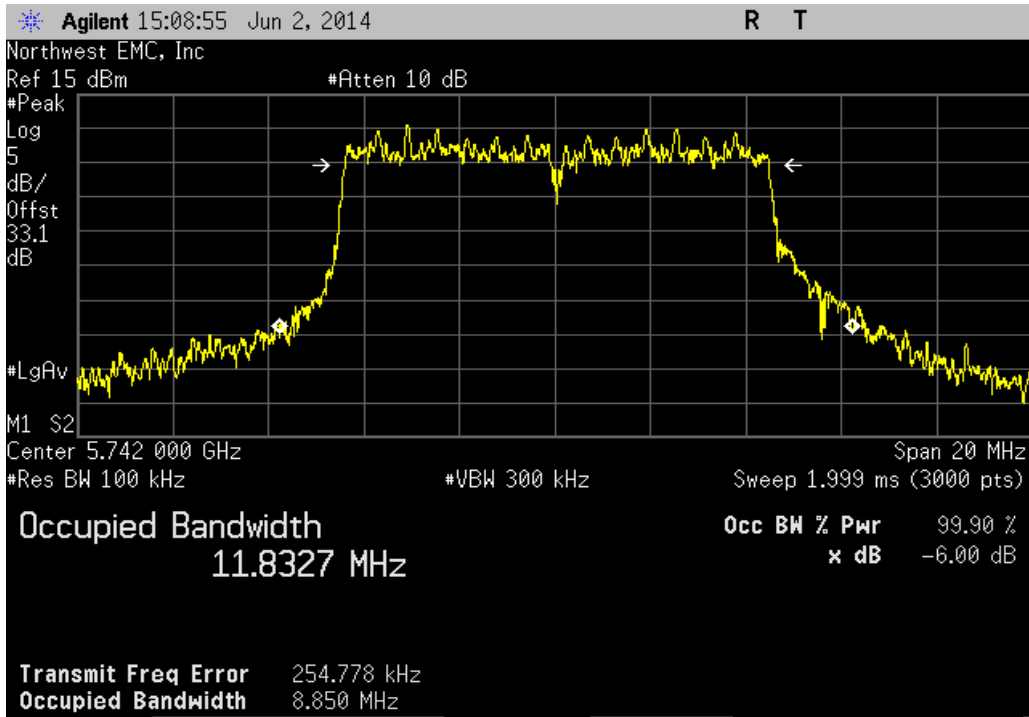
Chain 2, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 759, 5829MHz

Value	Limit	Result
4.422 MHz	> 500 kHz	Pass



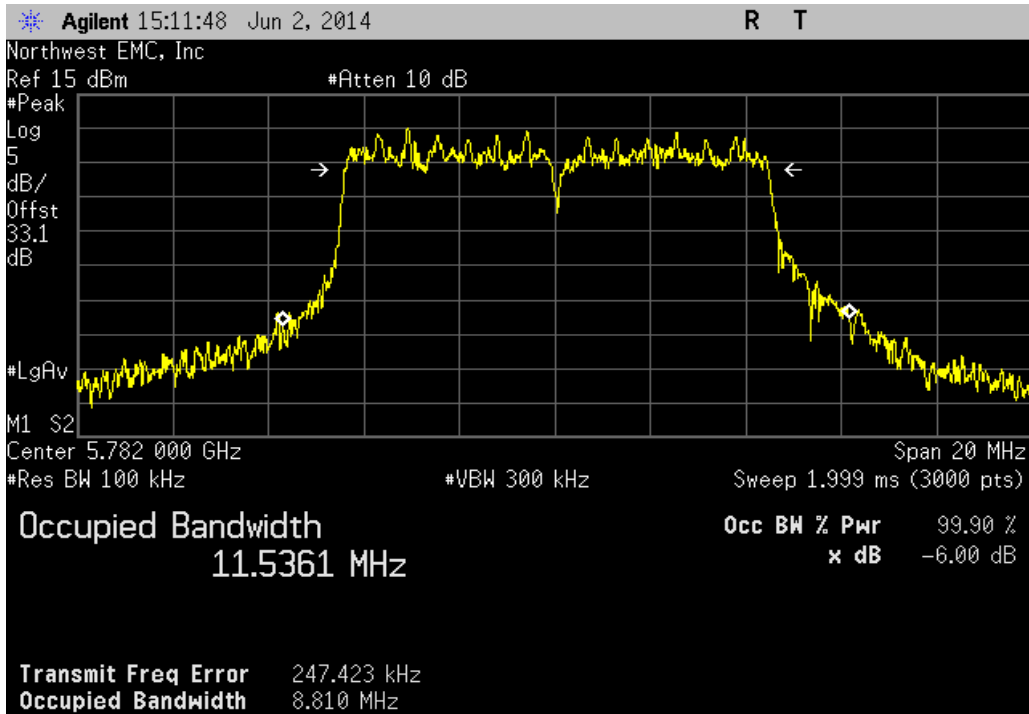
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 672, 5742MHz

Value	Limit	Result
8.85 MHz	> 500 kHz	Pass



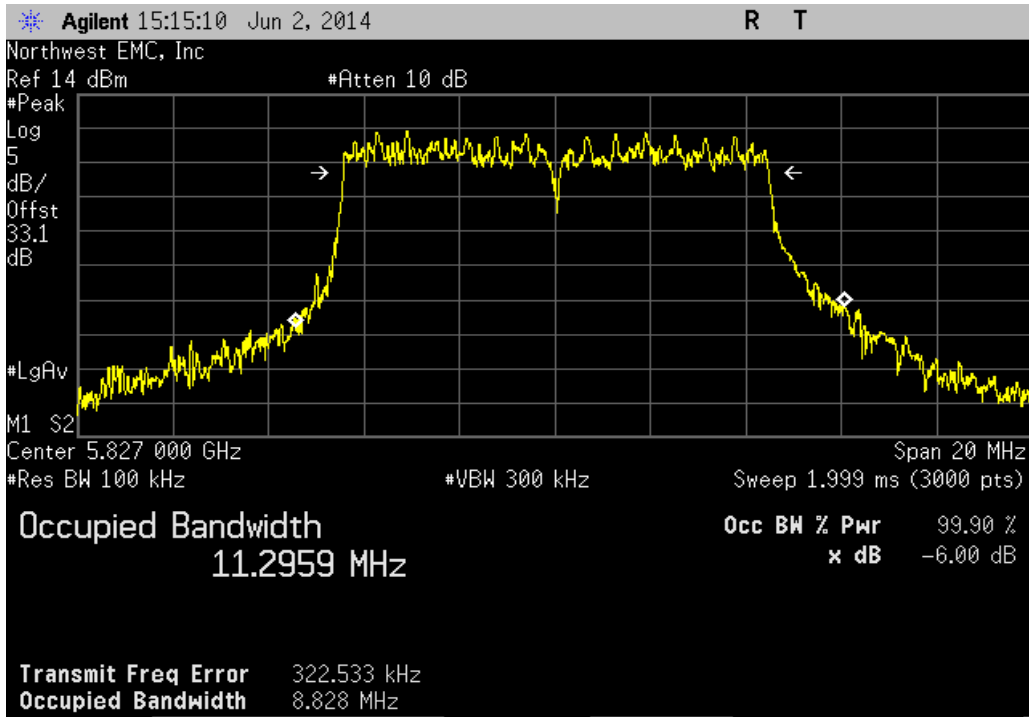
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 712, 5782MHz

Value	Limit	Result
8.81 MHz	> 500 kHz	Pass



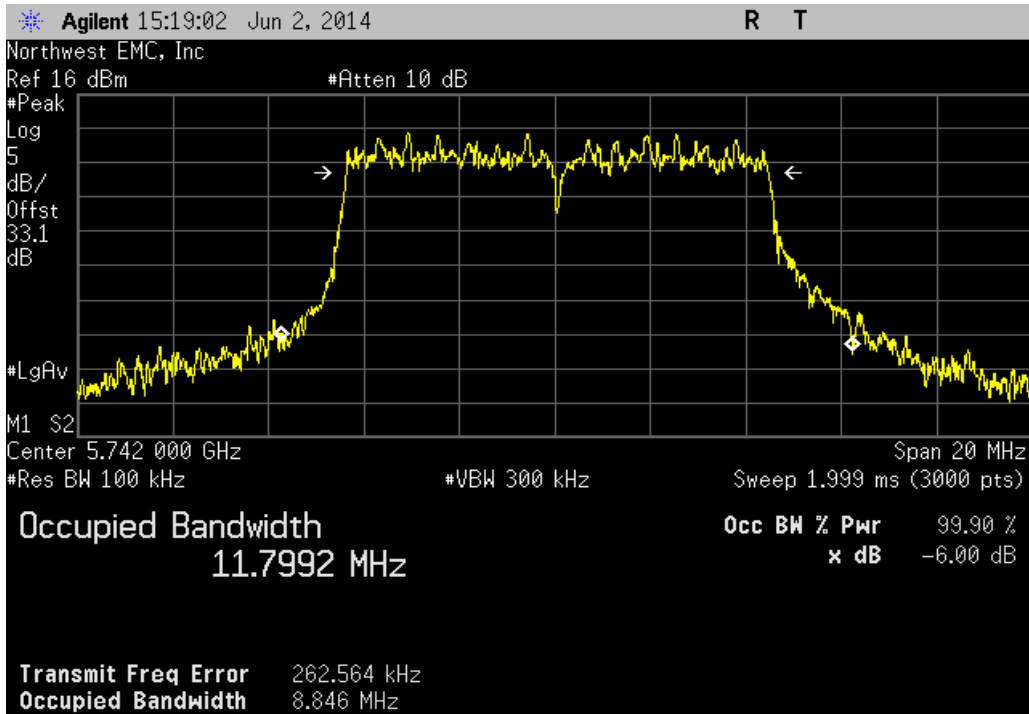
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 757, 5827MHz

Value	Limit	Result
8.828 MHz	> 500 kHz	Pass



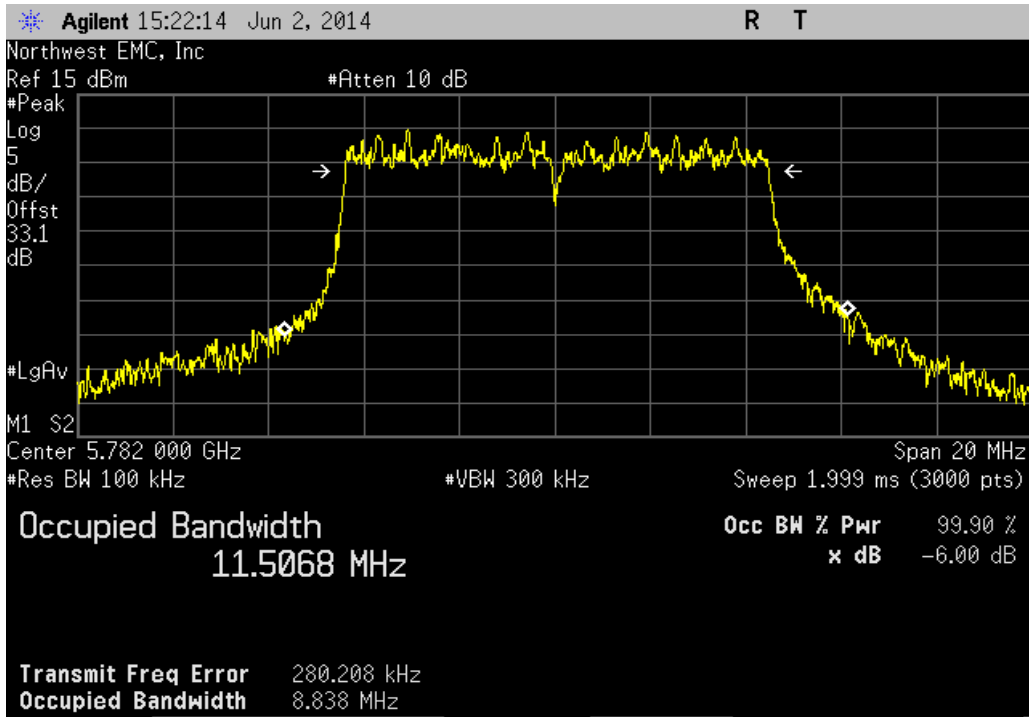
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 672, 5742MHz

Value	Limit	Result
8.846 MHz	> 500 kHz	Pass



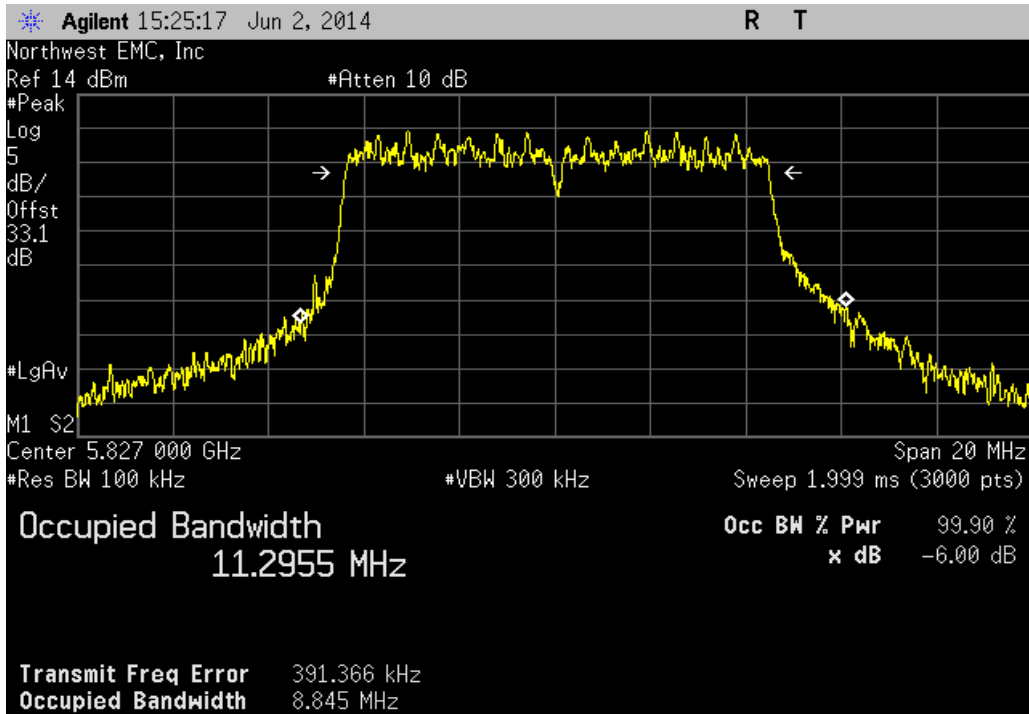
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 712, 5782MHz

	Value	Limit	Result
	8.838 MHz	> 500 kHz	Pass



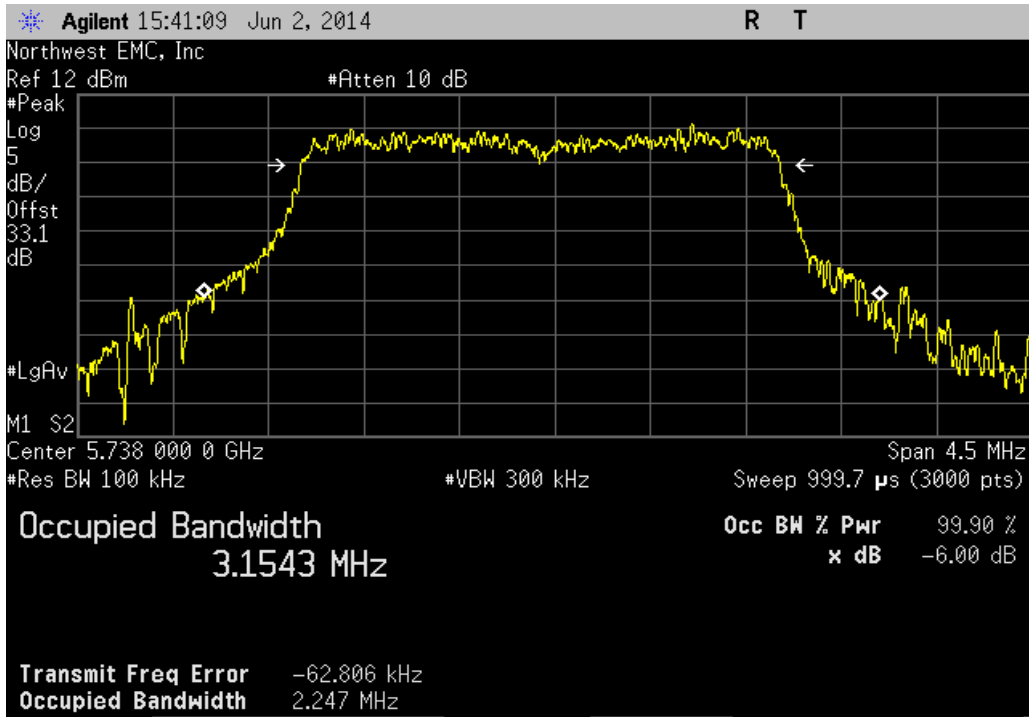
Chain 2, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 757, 5827MHz

	Value	Limit	Result
	8.845 MHz	> 500 kHz	Pass



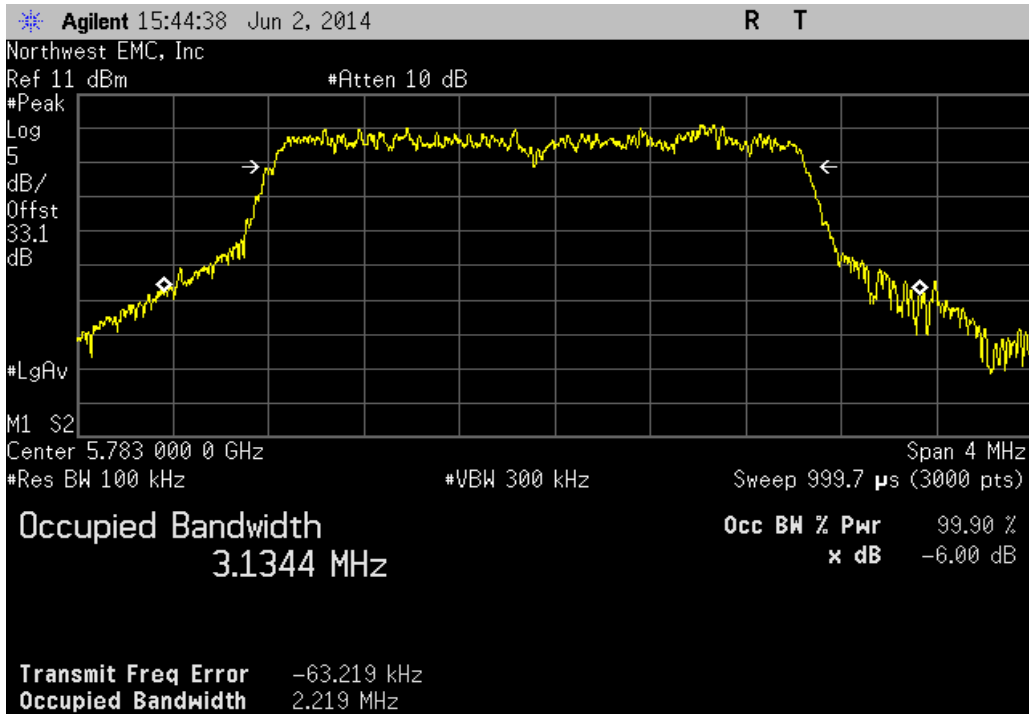
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.247 MHz	> 500 kHz	Pass



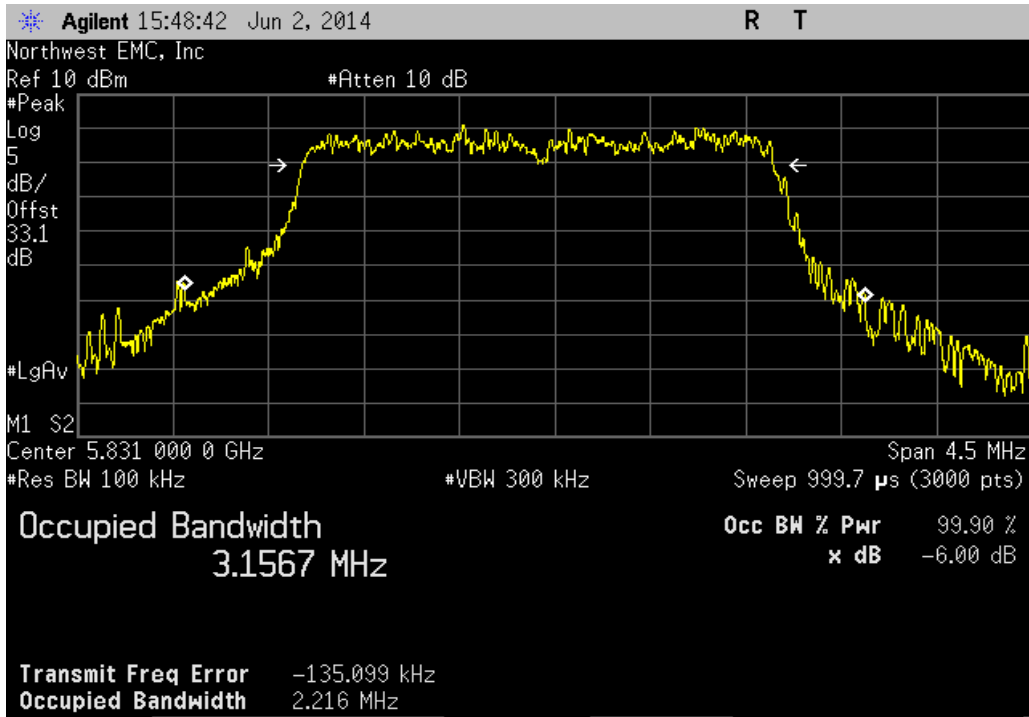
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.219 MHz	> 500 kHz	Pass



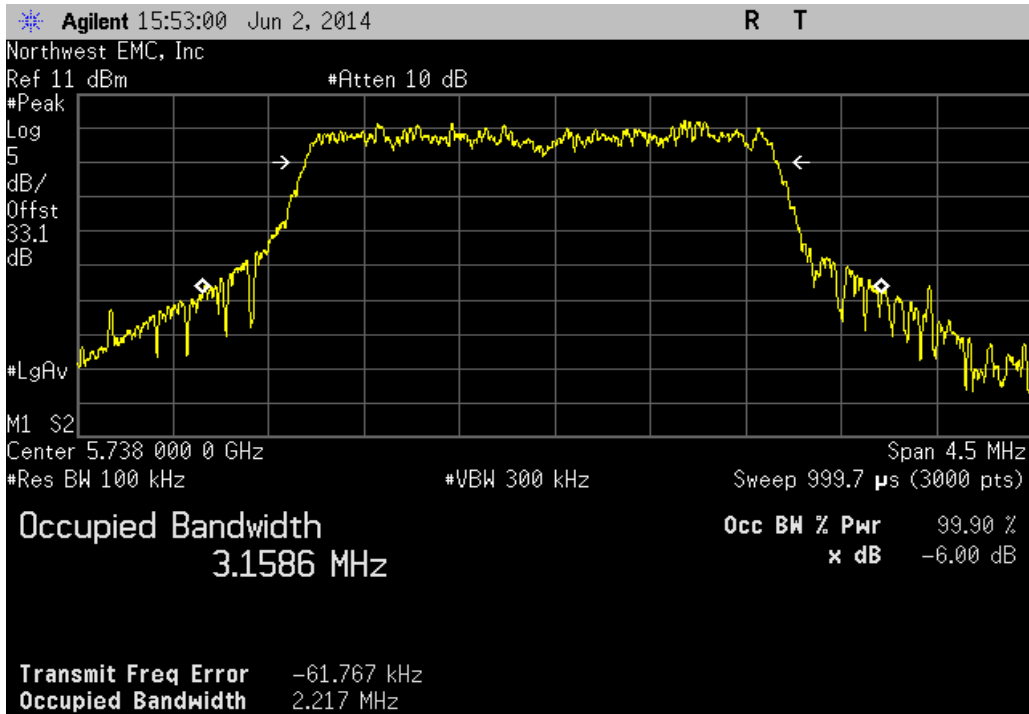
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 761, 5831MHz

	Value	Limit	Result
	2.216 MHz	> 500 kHz	Pass



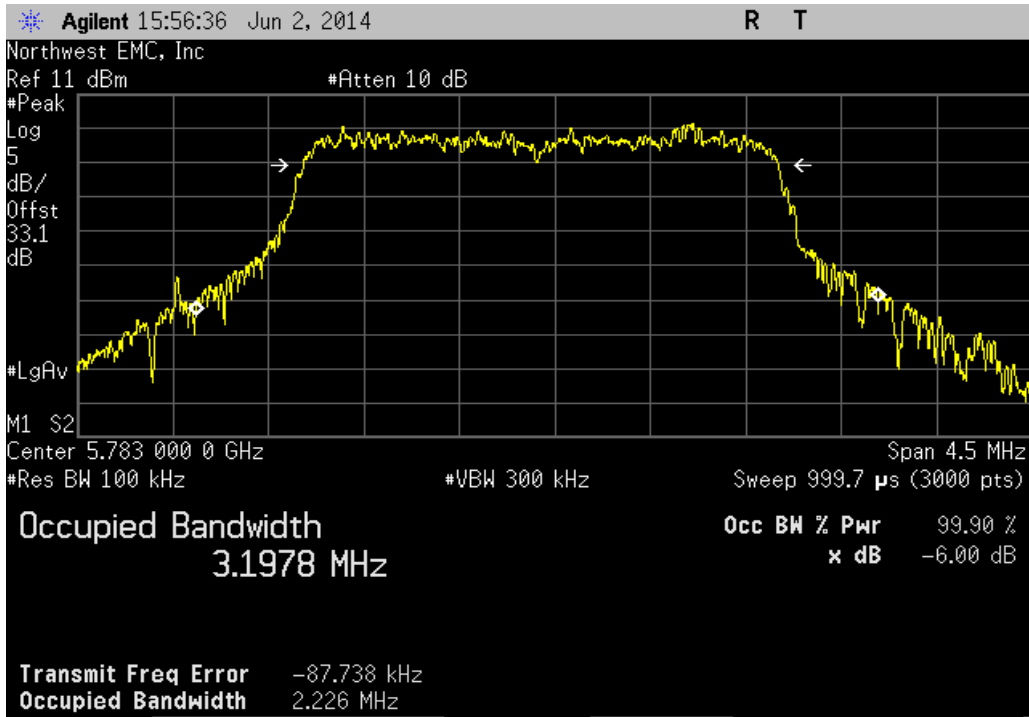
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 668, 5738MHz

	Value	Limit	Result
	2.217 MHz	> 500 kHz	Pass



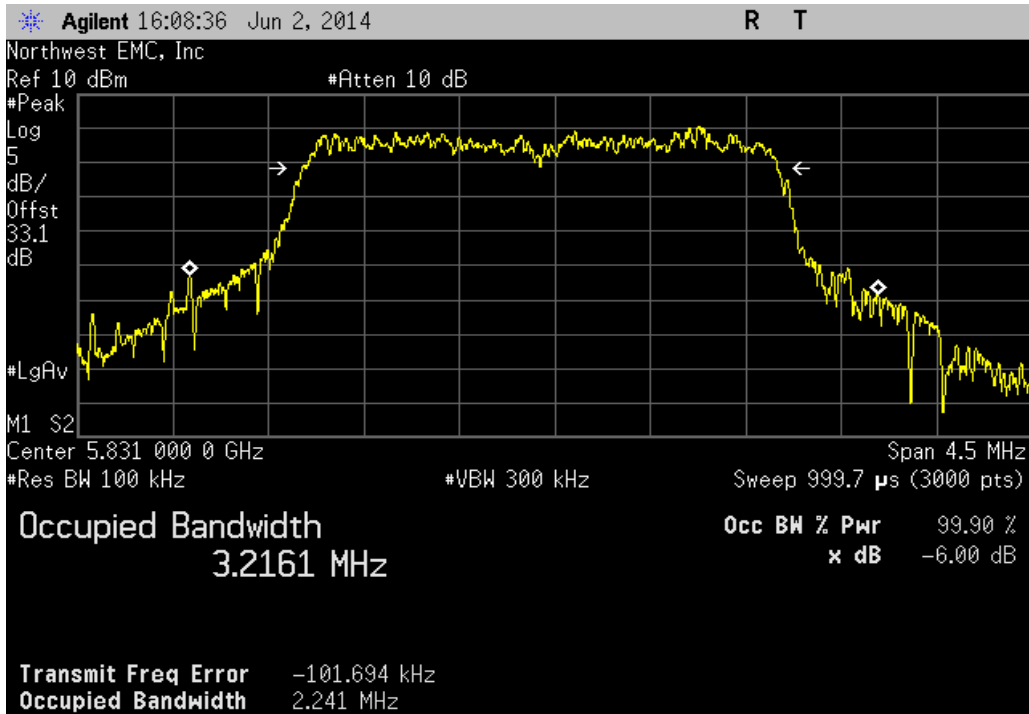
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 713, 5783MHz

	Value	Limit	Result
	2.226 MHz	> 500 kHz	Pass



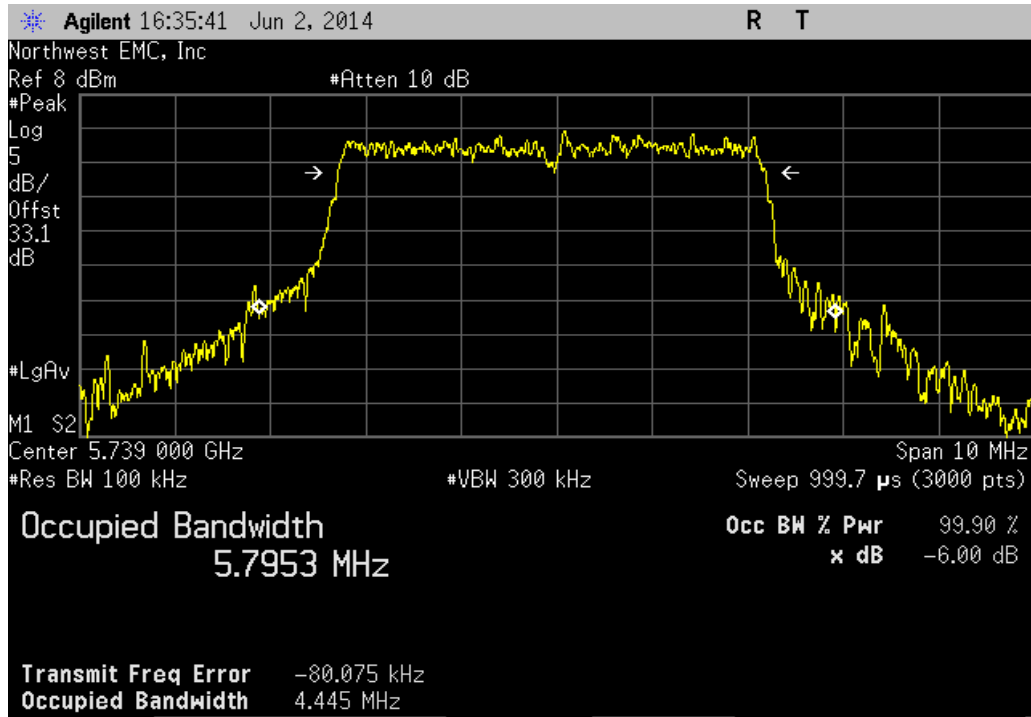
Chain 3, 5725 MHz - 5850 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 761, 5831MHz

	Value	Limit	Result
	2.241 MHz	> 500 kHz	Pass



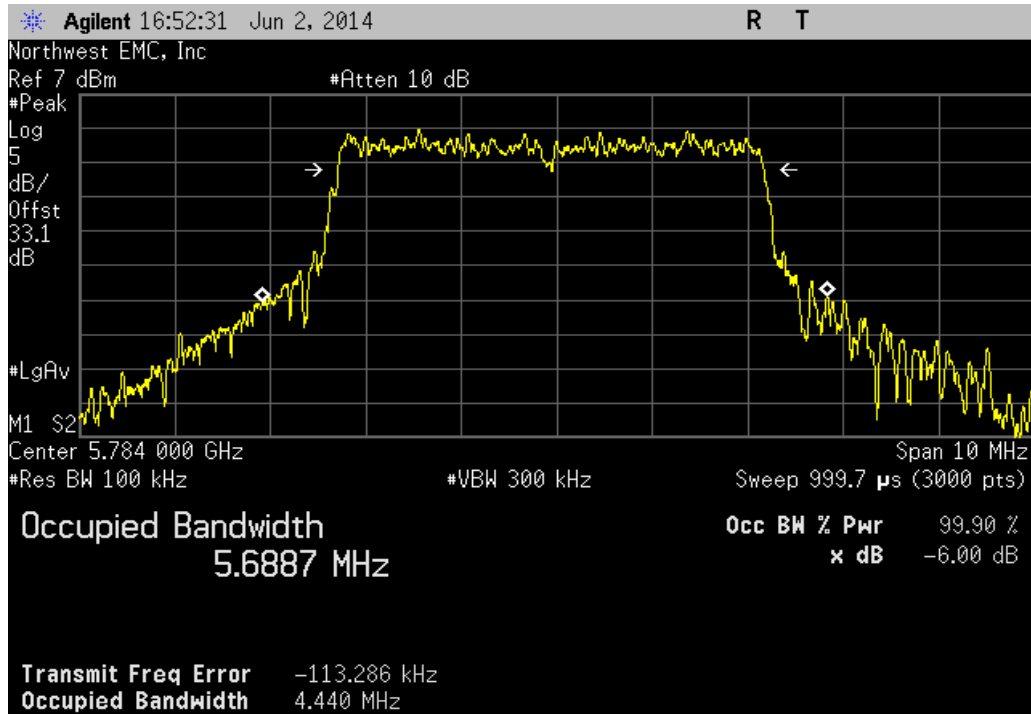
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 669, 5739MHz

Value	Limit	Result
4.445 MHz	> 500 kHz	Pass



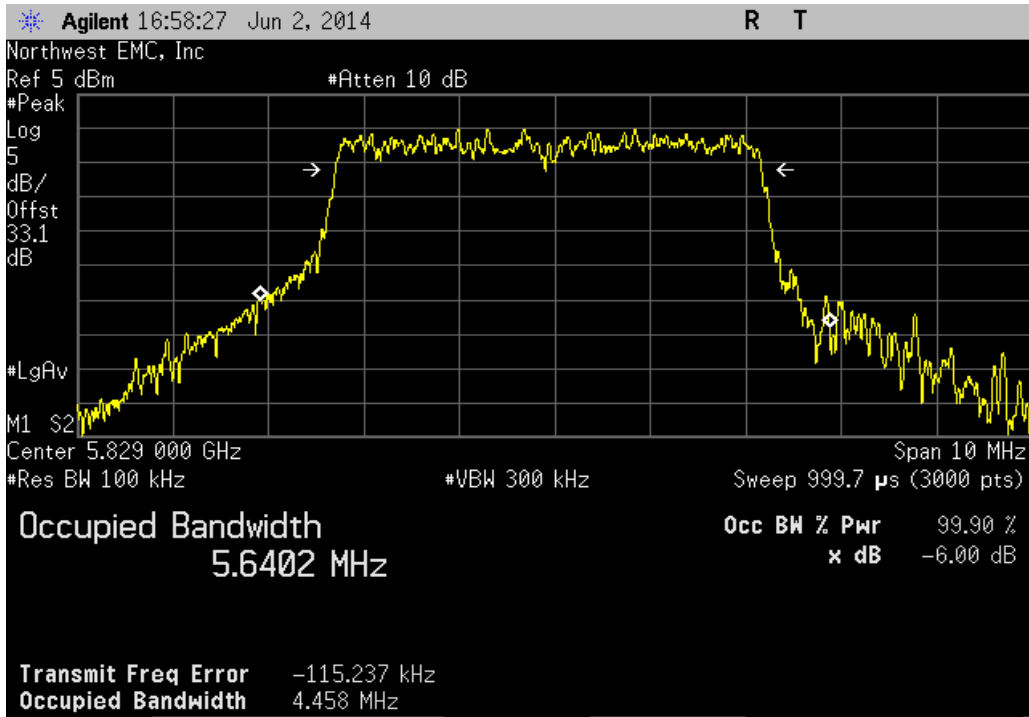
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 714, 5784MHz

Value	Limit	Result
4.44 MHz	> 500 kHz	Pass



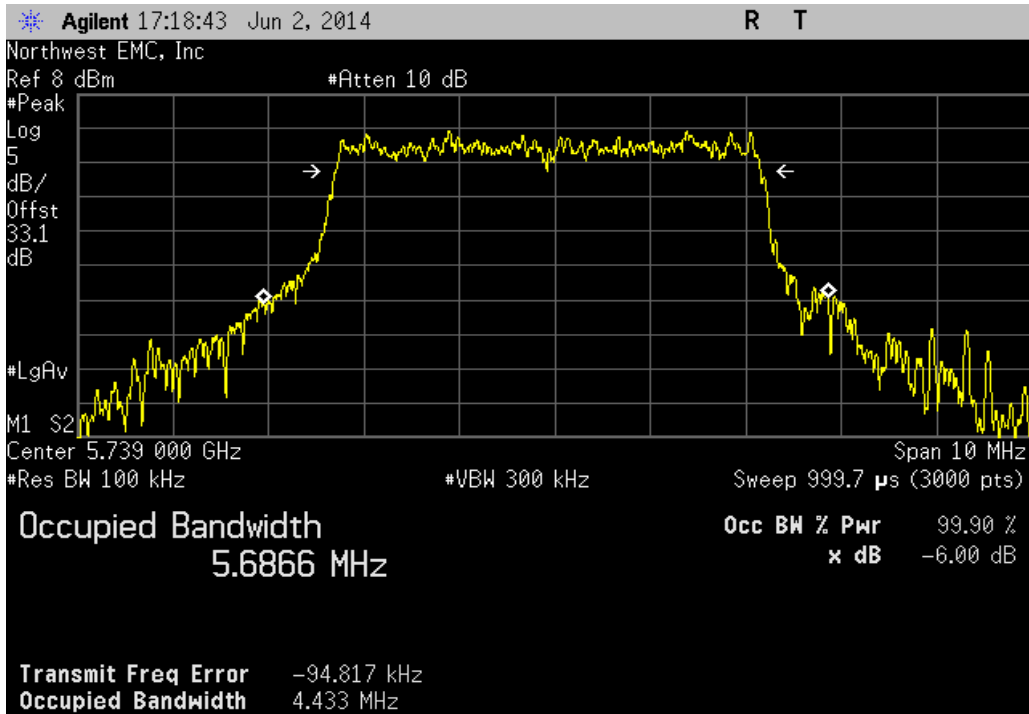
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 759, 5829MHz

Value	Limit	Result
4.458 MHz	> 500 kHz	Pass



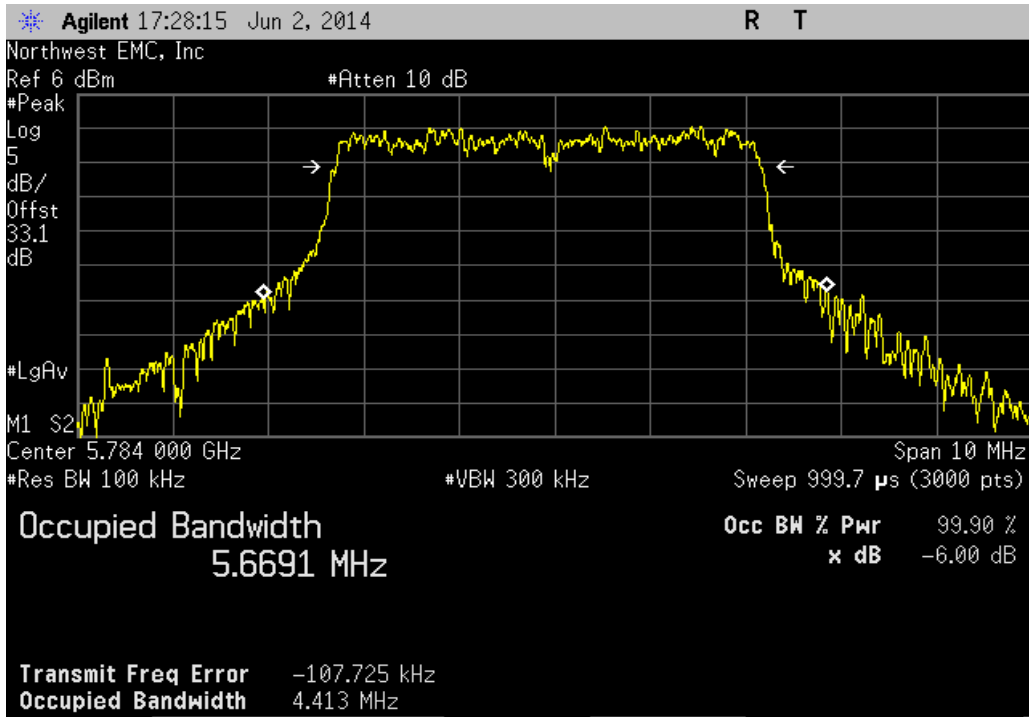
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 669, 5739MHz

Value	Limit	Result
4.433 MHz	> 500 kHz	Pass



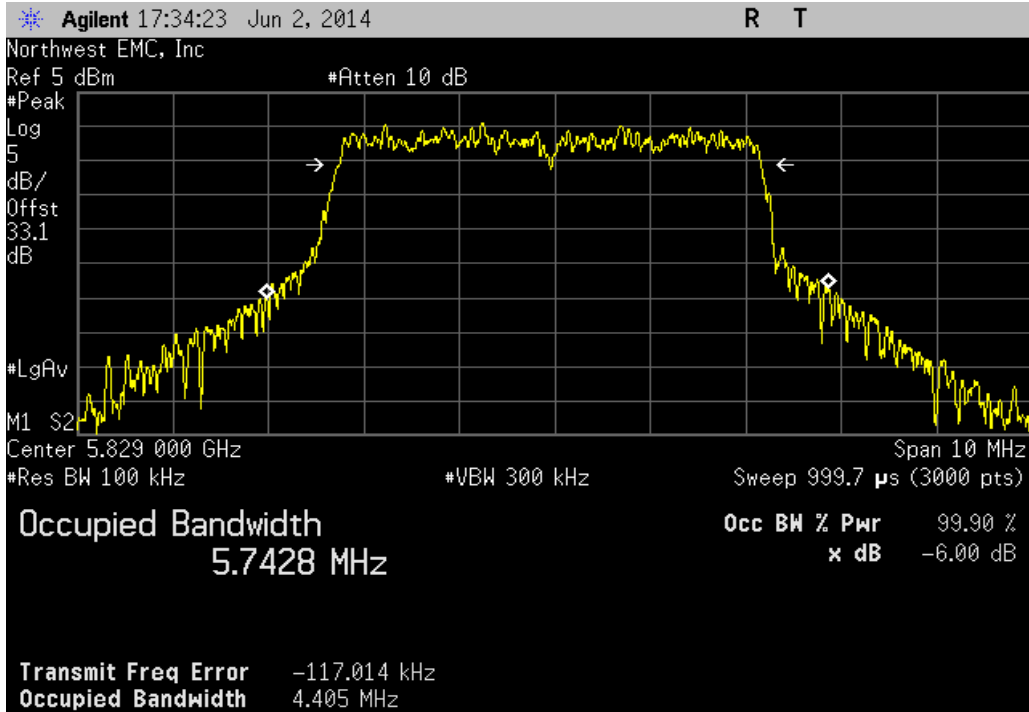
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 714, 5784MHz

Value	Limit	Result
4.413 MHz	> 500 kHz	Pass



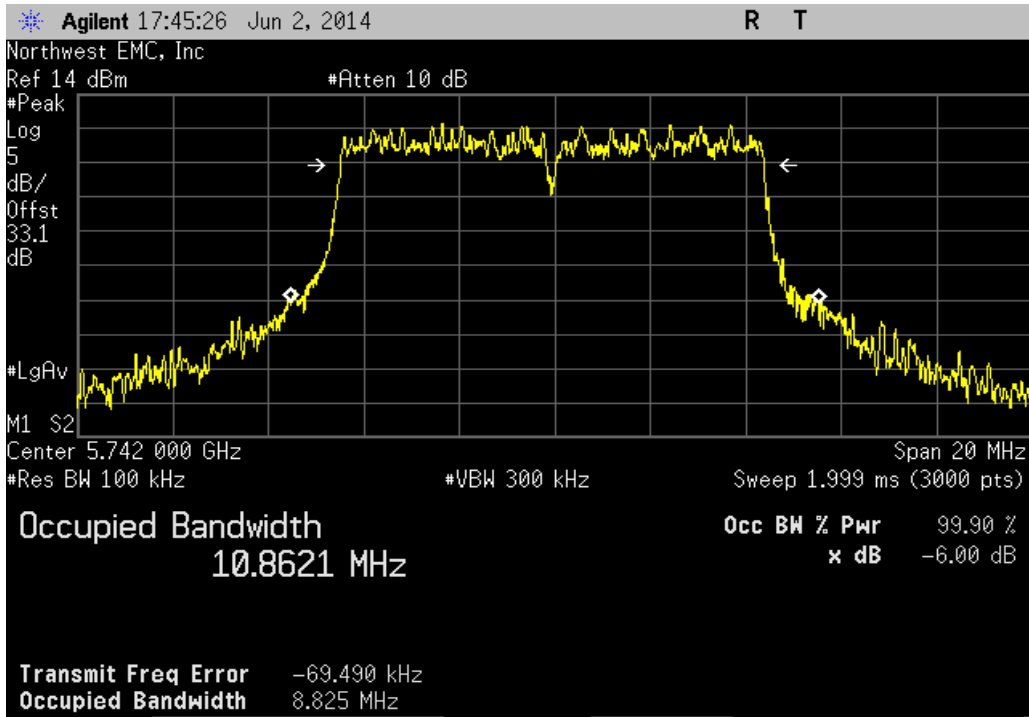
Chain 3, 5725 MHz - 5850 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 759, 5829MHz

Value	Limit	Result
4.405 MHz	> 500 kHz	Pass



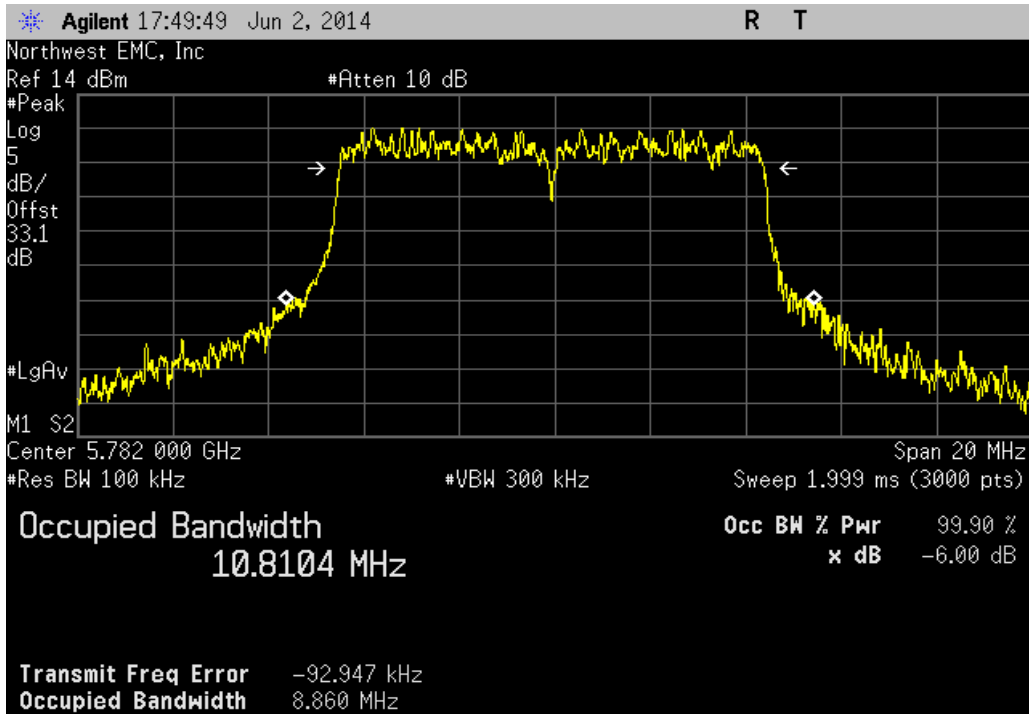
Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 672, 5742MHz

Value	Limit	Result
8.825 MHz	> 500 kHz	Pass



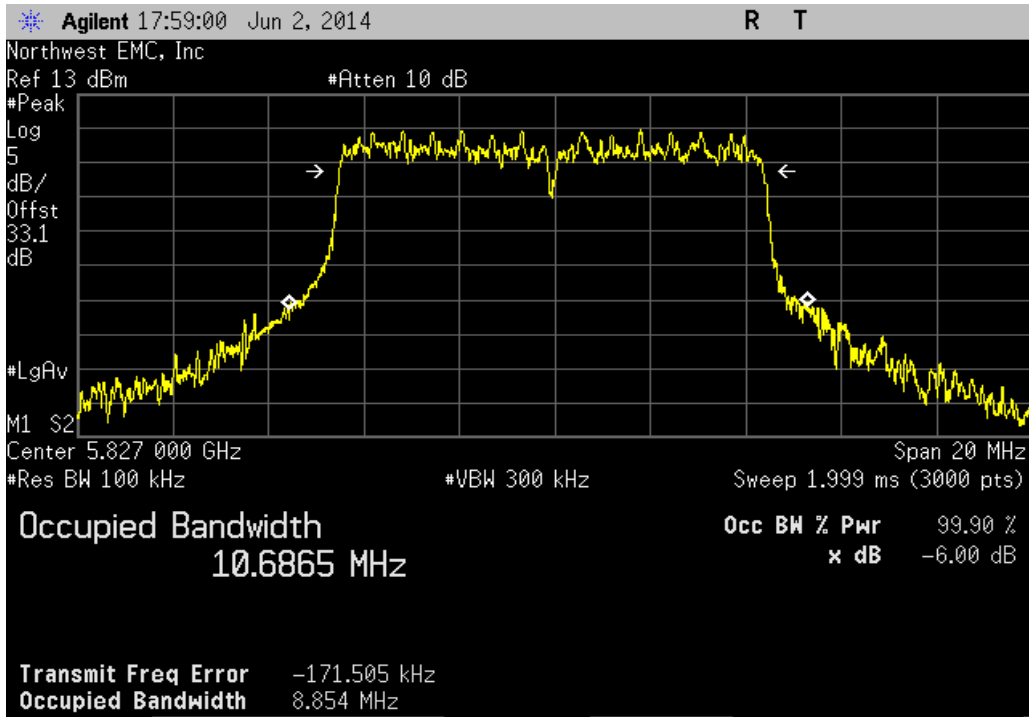
Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 712, 5782MHz

Value	Limit	Result
8.86 MHz	> 500 kHz	Pass



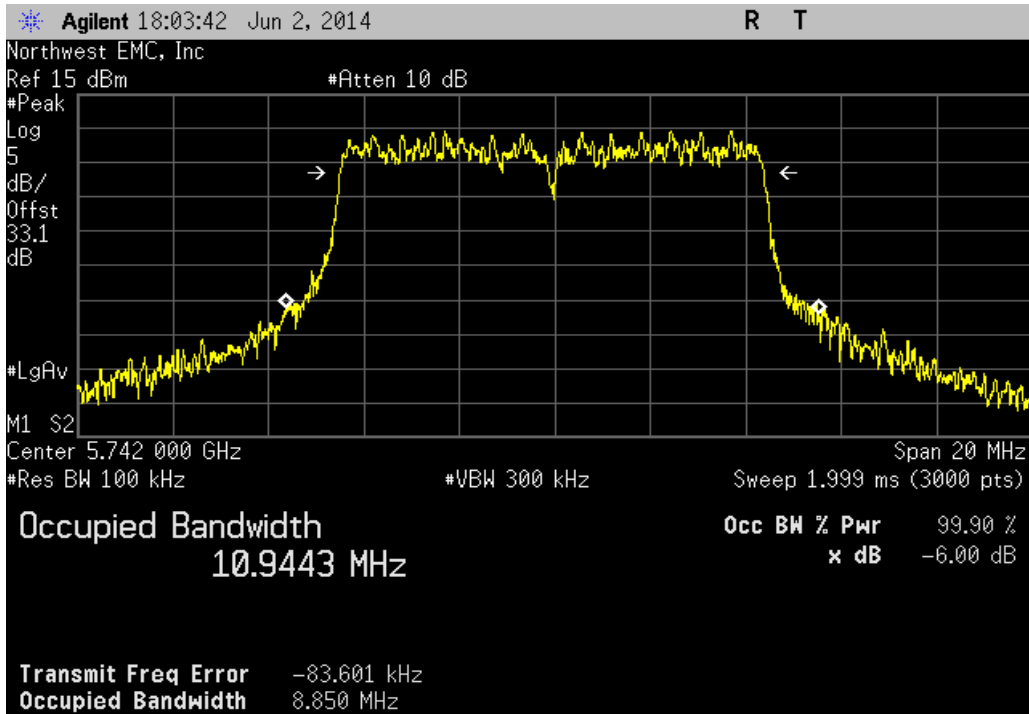
Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 757, 5827MHz

Value	Limit	Result
8.854 MHz	> 500 kHz	Pass



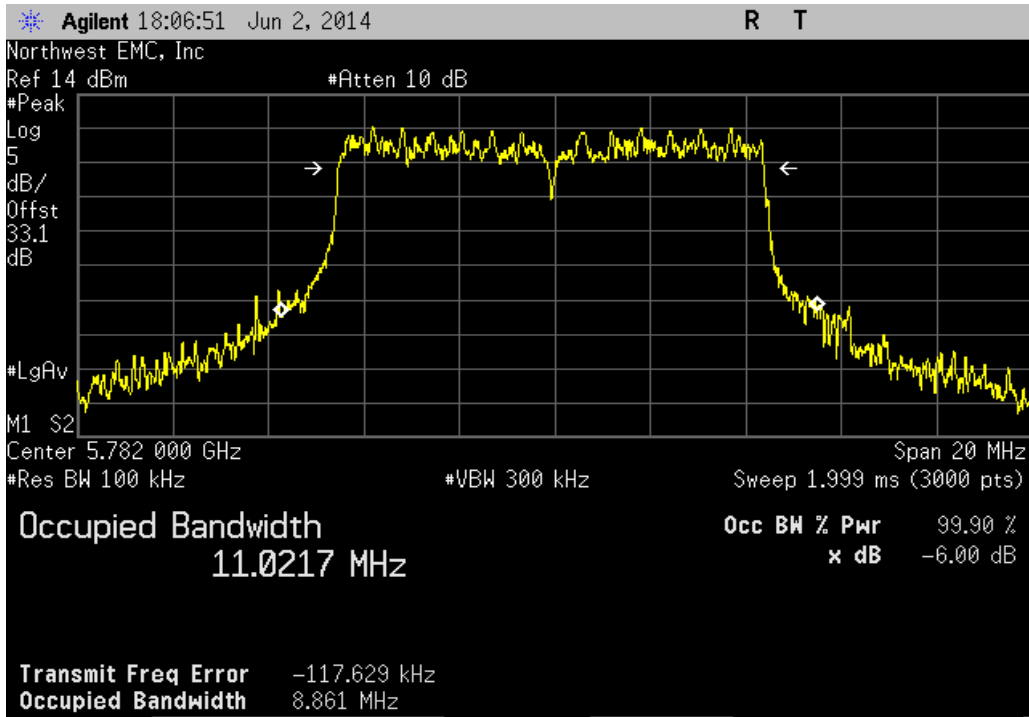
Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 672, 5742MHz

Value	Limit	Result
8.85 MHz	> 500 kHz	Pass



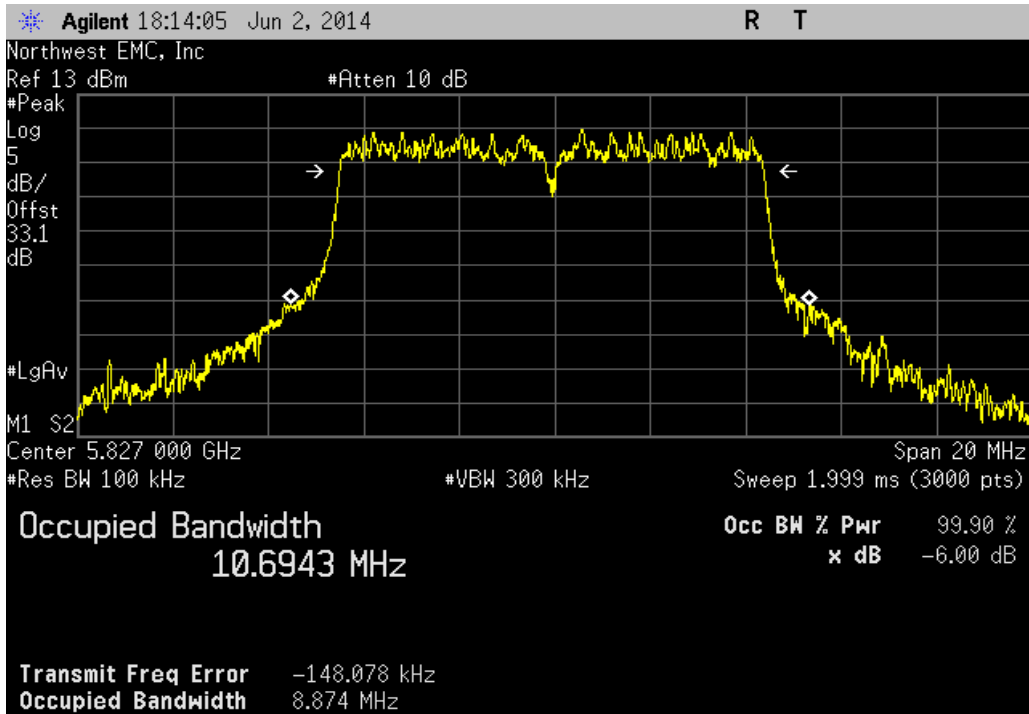
Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 712, 5782MHz

	Value	Limit	Result
	8.861 MHz	> 500 kHz	Pass



Chain 3, 5725 MHz - 5850 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 757, 5827MHz

	Value	Limit	Result
	8.874 MHz	> 500 kHz	Pass



OUTPUT POWER - SISO

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.	Interval (mo)
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
100W Analog Signal Generator 400MHz	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Two methods found in the KDB 558074 DTS D01 were used for Measurement.

- Section 9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.
- Section 9.1.2 was used because the DTS Bandwidth of the radio was greater than the RBW on the analyzer.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.

EUT: WavePoint - 5GHz Radio (W5800-01)	Work Order: FREW0028
Serial Number: 00:07:E7:A0:01:F1	Date: 06/03/14
Customer: FreeWave Technologies, Inc.	Temperature: 22.6°C
Attendees: Dean Busch	Humidity: 43%
Project: None	Barometric Pres.: 1018.7
Tested by: Brandon Hobbs, Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS
An additional 10dB 5watt attenuator was used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

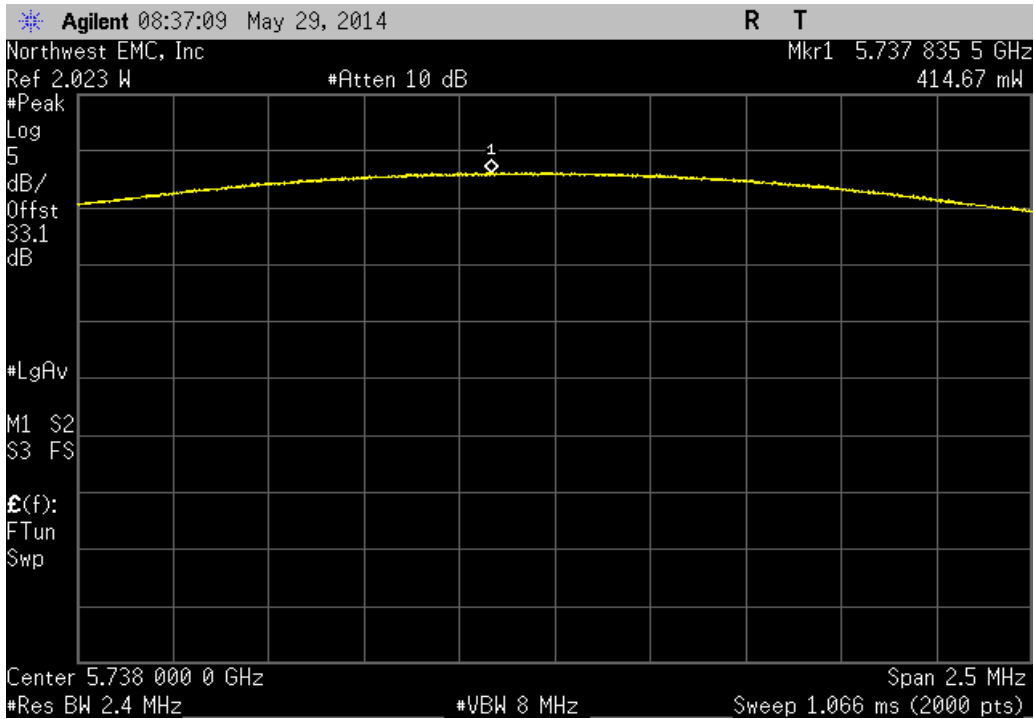
DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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Chain 1		Value	Limit	Result
5725 MHz - 5825 MHz Band				
2.5 MHz				
Modulation Type, BPSK, Coding Rate, 1/2				
	Low Channel 5738 MHz	414.667 mW	< 1 W	Pass
	Mid Channel 5783 MHz	375.837 mW	< 1 W	Pass
	High Channel 5831 MHz	346.657 mW	< 1 W	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.				
	Low Channel 5738 MHz	433.311 mW	< 1 W	Pass
	Mid Channel 5783 MHz	383.354 mW	< 1 W	Pass
	High Channel 5831 MHz	341.114 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.				
	Low Channel 5738 MHz	432.613 mW	< 1 W	Pass
	Mid Channel 5783 MHz	386.723 mW	< 1 W	Pass
	High Channel 5831 MHz	347.456 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.				
	Low Channel 5738 MHz	427.071 mW	< 1 W	Pass
	Mid Channel 5783 MHz	363.329 mW	< 1 W	Pass
	High Channel 5831 MHz	322.329 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.				
	Low Channel 5738 MHz	412.192 mW	< 1 W	Pass
	Mid Channel 5783 MHz	378.007 mW	< 1 W	Pass
	High Channel 5831 MHz	333.657 mW	< 1 W	Pass
5 MHz				
Modulation Type, BPSK, Coding Rate, 1/2				
	Low Channel 5739 MHz	343.479 mW	< 1 W	Pass
	Mid Channel 5784 MHz	300.608 mW	< 1 W	Pass
	High Channel 5829 MHz	287.078 mW	< 1 W	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.				
	Low Channel 5739 MHz	359.335 mW	< 1 W	Pass
	Mid Channel 5784 MHz	411.813 mW	< 1 W	Pass
	High Channel 5829 MHz	322.998 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.				
	Low Channel 5739 MHz	335.97 mW	< 1 W	Pass
	Mid Channel 5784 MHz	367.79 mW	< 1 W	Pass
	High Channel 5829 MHz	322.107 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.				
	Low Channel 5739 MHz	432.713 mW	< 1 W	Pass
	Mid Channel 5784 MHz	389.762 mW	< 1 W	Pass
	High Channel 5829 MHz	348.899 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.				
	Low Channel 5739 MHz	444.12 mW	< 1 W	Pass
	Mid Channel 5784 MHz	379.752 mW	< 1 W	Pass
	High Channel 5829 MHz	335.12 mW	< 1 W	Pass
10 MHz				
Modulation Type, BPSK, Coding Rate, 1/2				
	Low Channel 5742 MHz	402.2 mW	< 1 W	Pass
	Mid Channel 5782 MHz	407.6 mW	< 1 W	Pass
	High Channel 5827 MHz	319.7 mW	< 1 W	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.				
	Low Channel 5742 MHz	393.4 mW	< 1 W	Pass
	Mid Channel 5782 MHz	404.1 mW	< 1 W	Pass
	High Channel 5827 MHz	312.0 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.				
	Low Channel 5742 MHz	394.8 mW	< 1 W	Pass
	Mid Channel 5782 MHz	403.4 mW	< 1 W	Pass
	High Channel 5827 MHz	328.7 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.				
	Low Channel 5742 MHz	377.068 mW	< 1 W	Pass
	Mid Channel 5782 MHz	327.505 mW	< 1 W	Pass
	High Channel 5827 MHz	305.209 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.				
	Low Channel 5742 MHz	375.407 mW	< 1 W	Pass
	Mid Channel 5782 MHz	332.673 mW	< 1 W	Pass
	High Channel 5827 MHz	312.285 mW	< 1 W	Pass

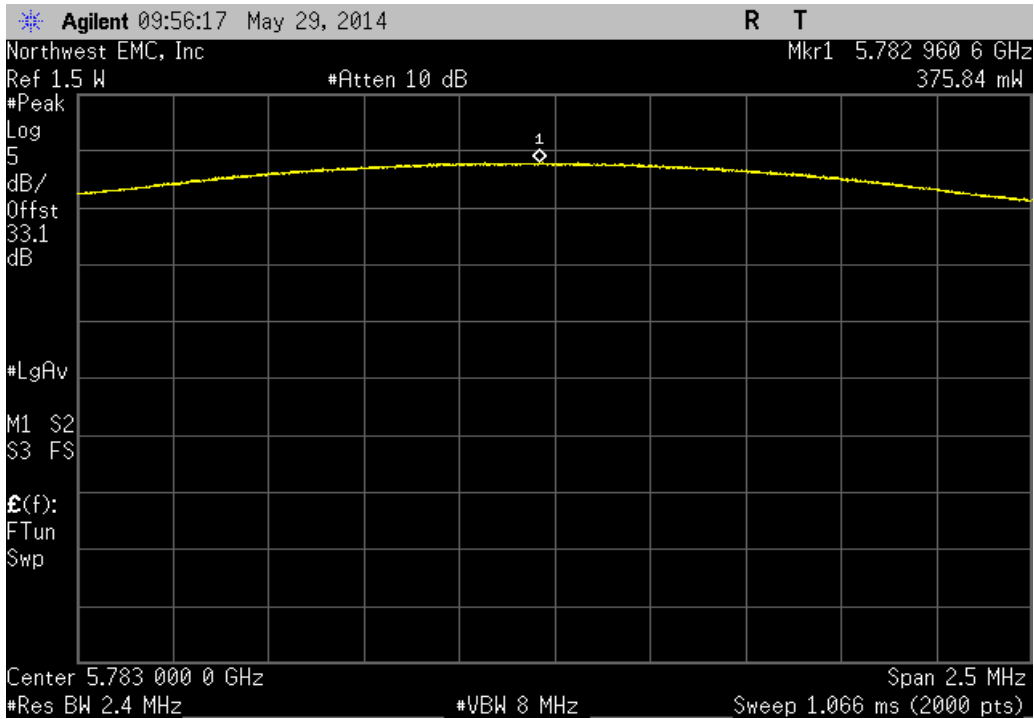
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5738 MHz

Value	Limit	Result
414.667 mW	< 1 W	Pass



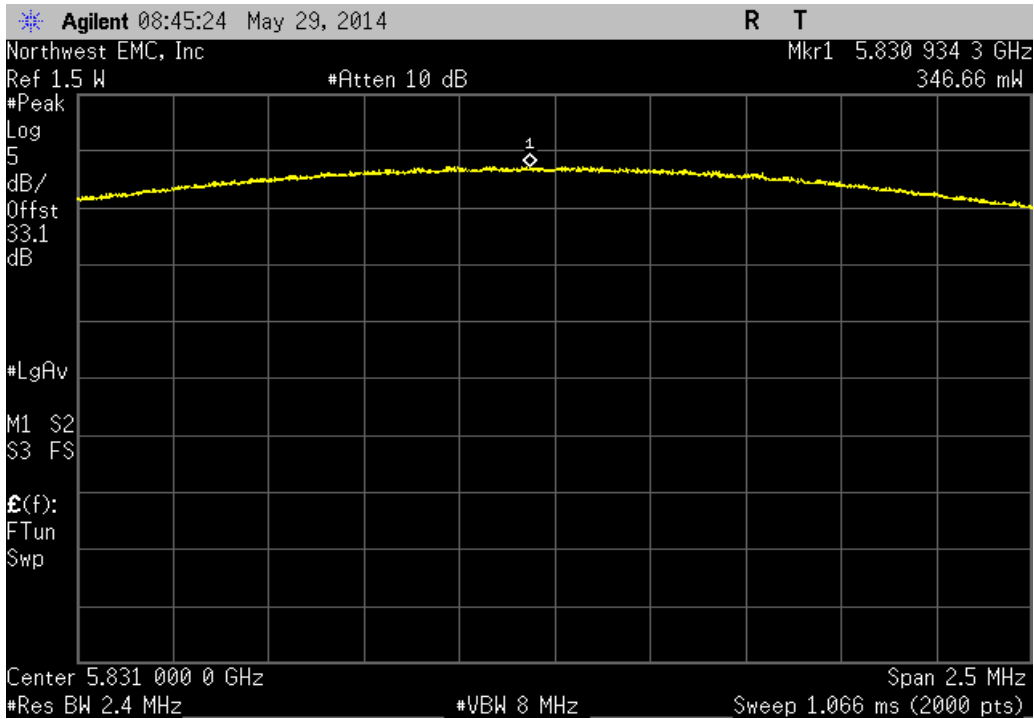
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5783 MHz

Value	Limit	Result
375.837 mW	< 1 W	Pass



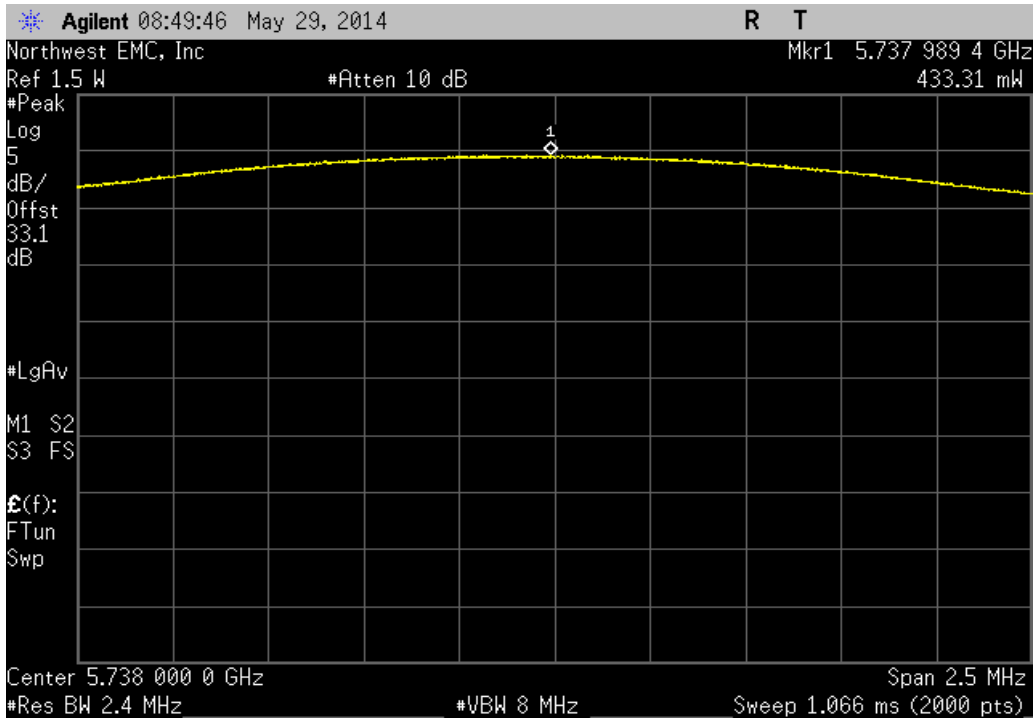
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5831 MHz

Value	Limit	Result
346.657 mW	< 1 W	Pass



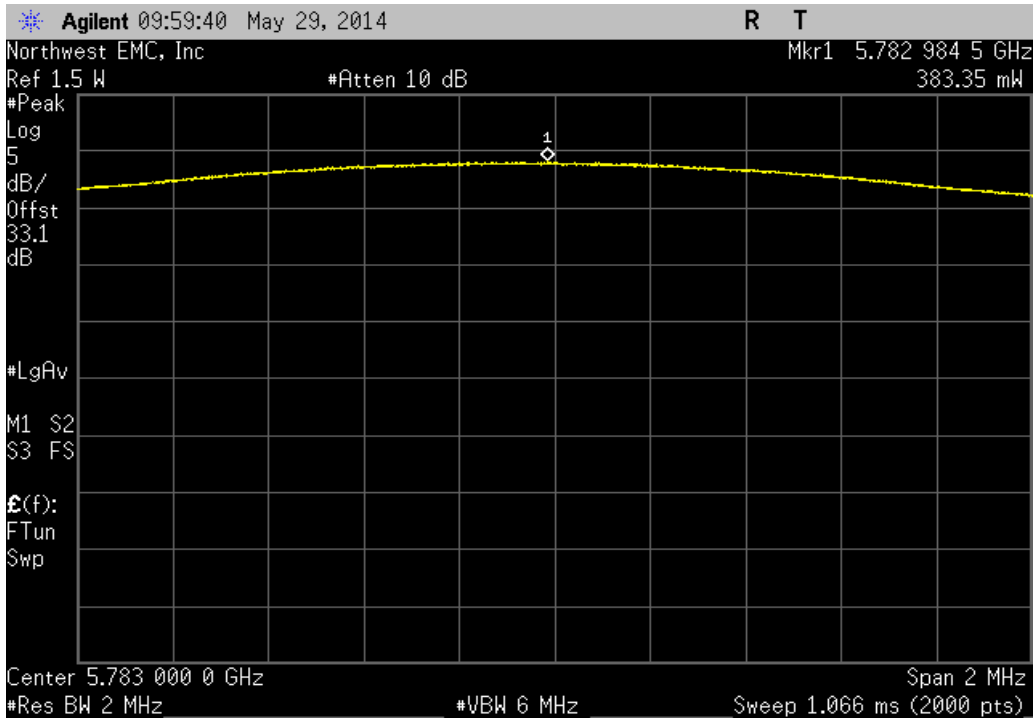
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5738 MHz

Value	Limit	Result
433.311 mW	< 1 W	Pass



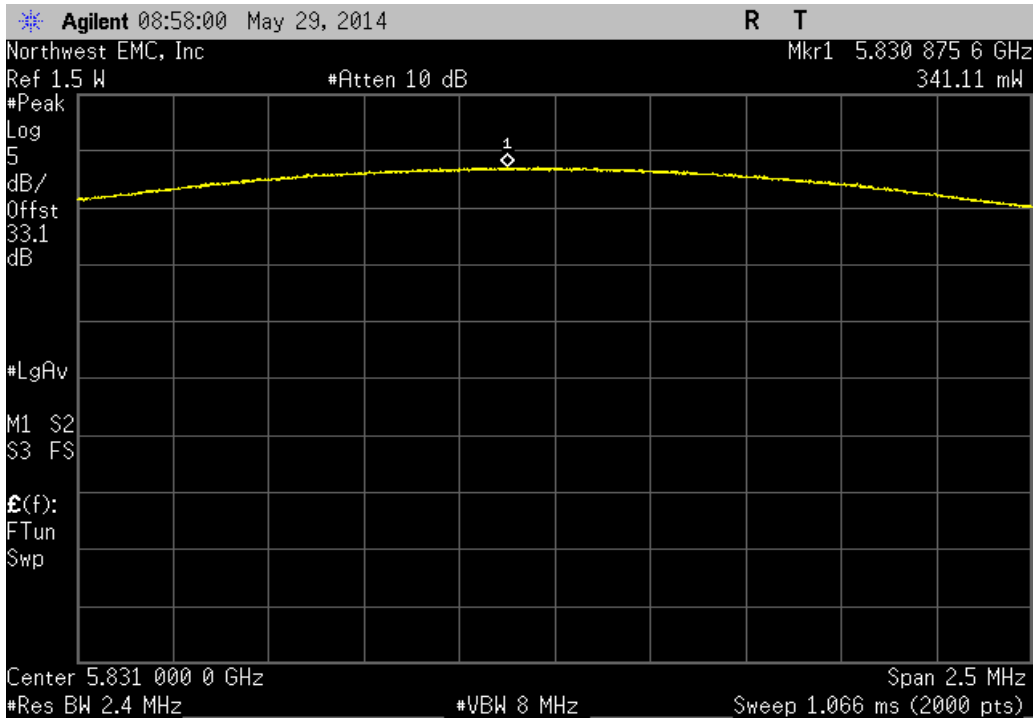
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5783 MHz

Value	Limit	Result
383.354 mW	< 1 W	Pass



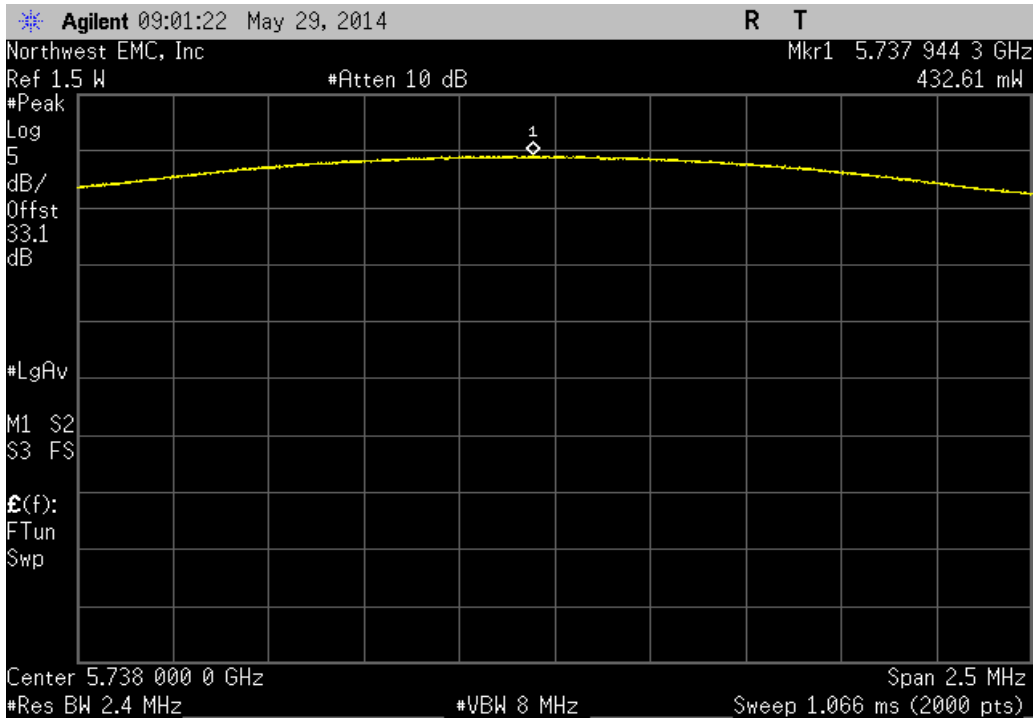
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5831 MHz

Value	Limit	Result
341.114 mW	< 1 W	Pass



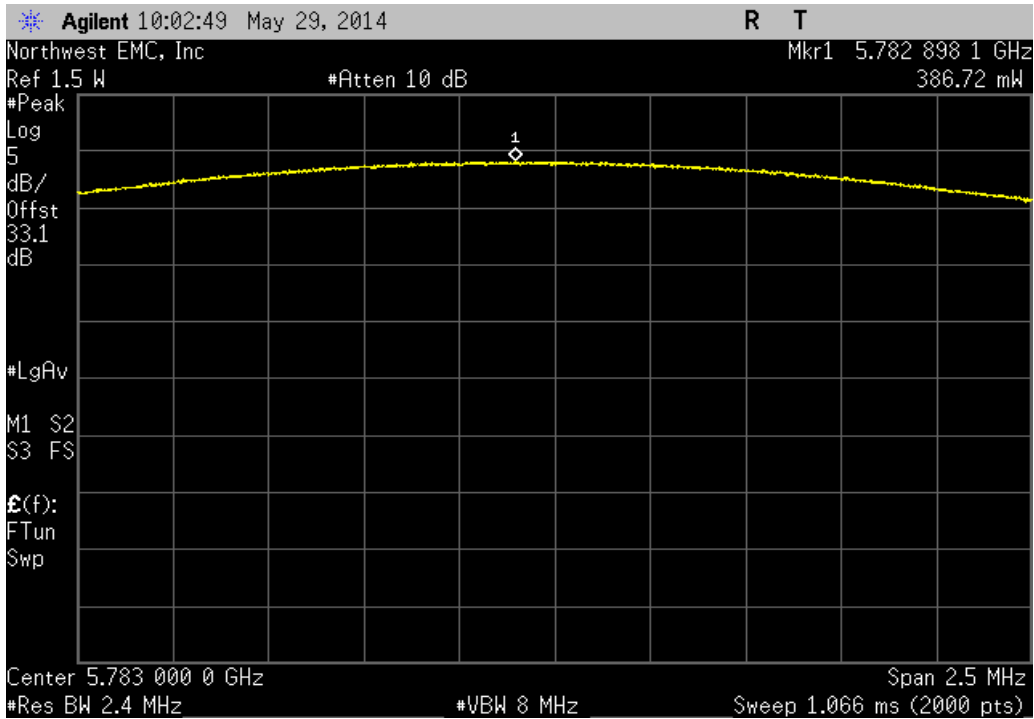
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5738 MHz

Value	Limit	Result
432.613 mW	< 1 W	Pass



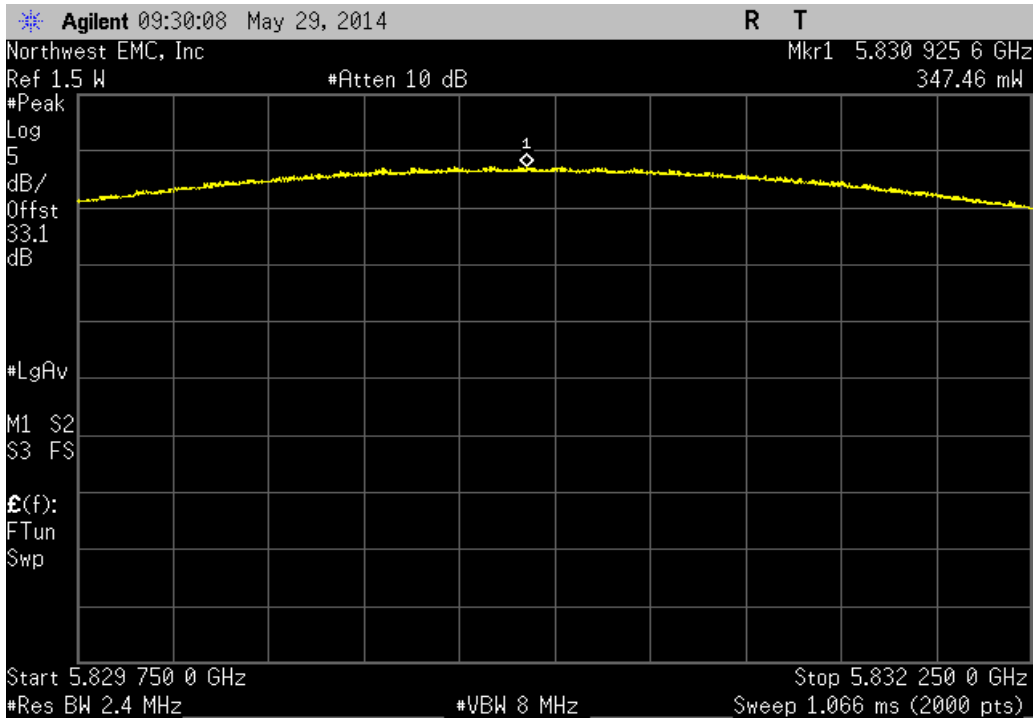
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5783 MHz

Value	Limit	Result
386.723 mW	< 1 W	Pass



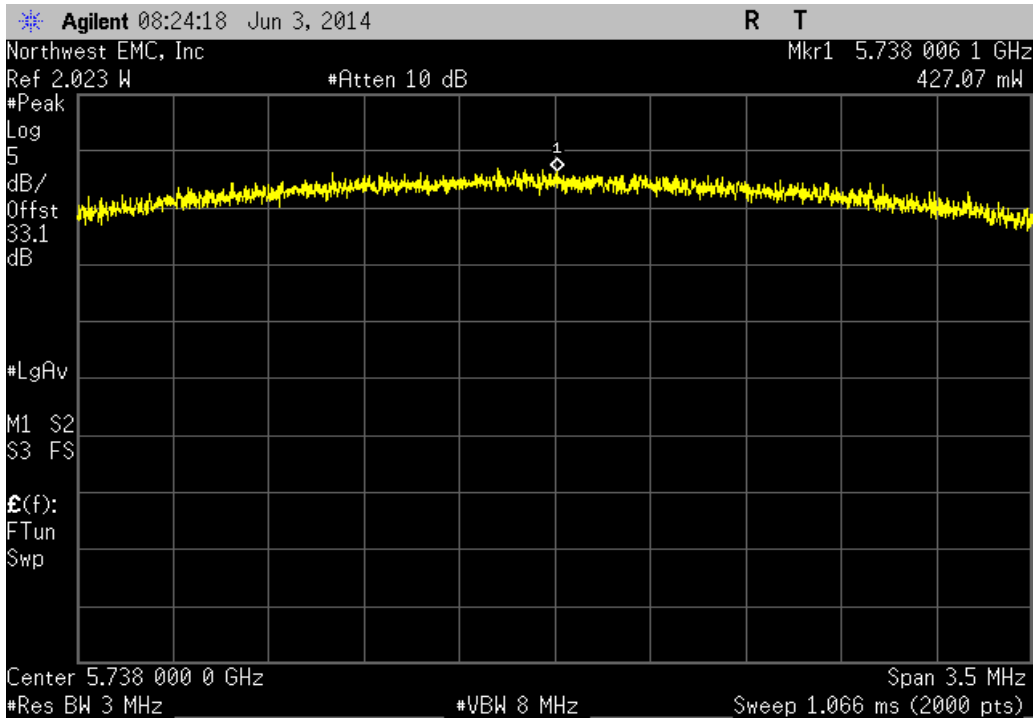
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5831 MHz

Value	Limit	Result
347.456 mW	< 1 W	Pass



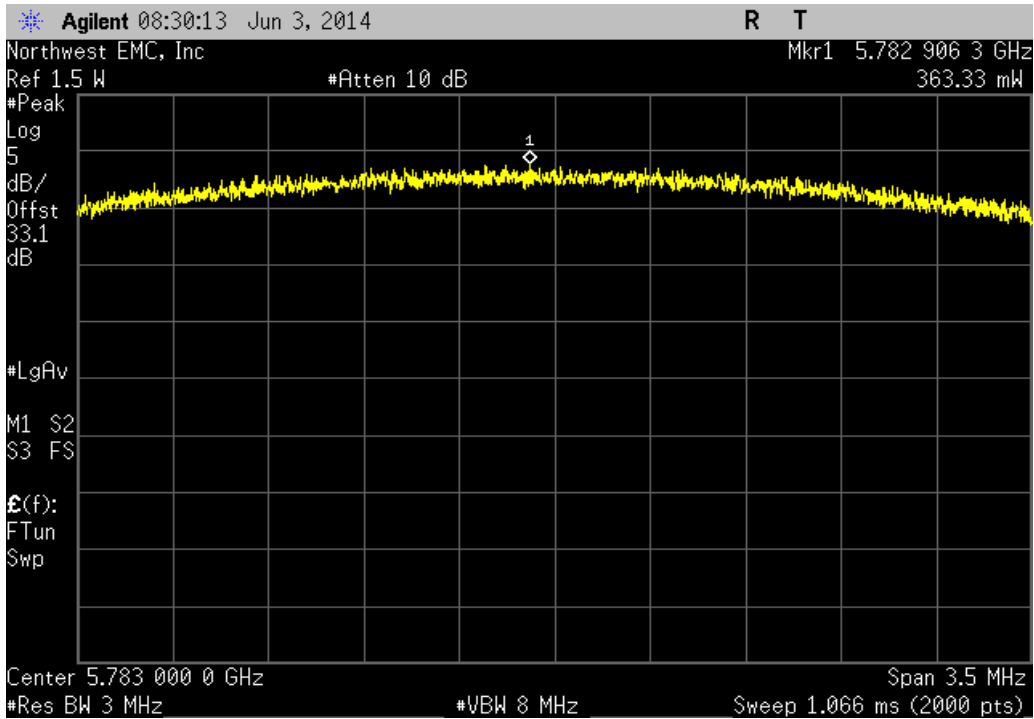
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

Value	Limit	Result
427.071 mW	< 1 W	Pass



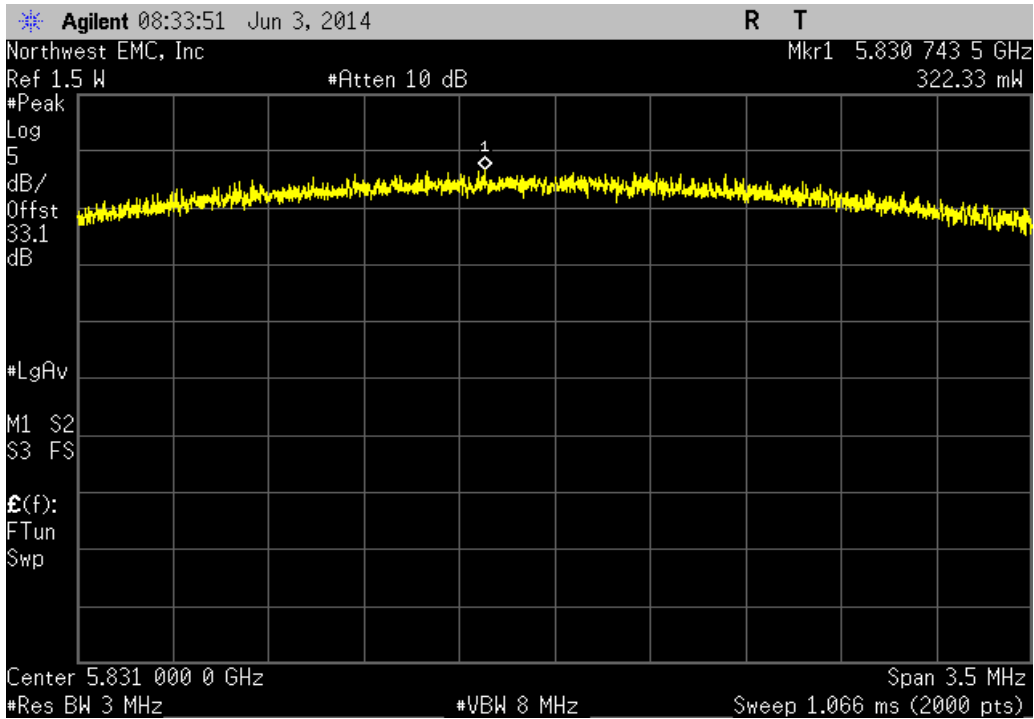
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 5783 MHz

Value	Limit	Result
363.329 mW	< 1 W	Pass



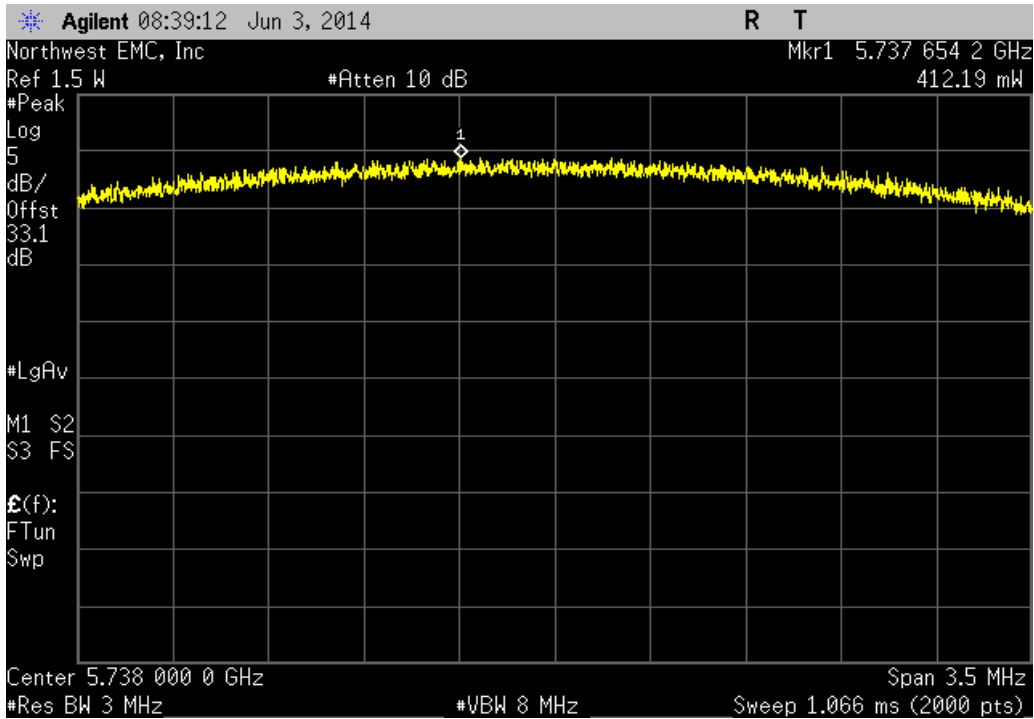
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 5831 MHz

Value	Limit	Result
322.329 mW	< 1 W	Pass



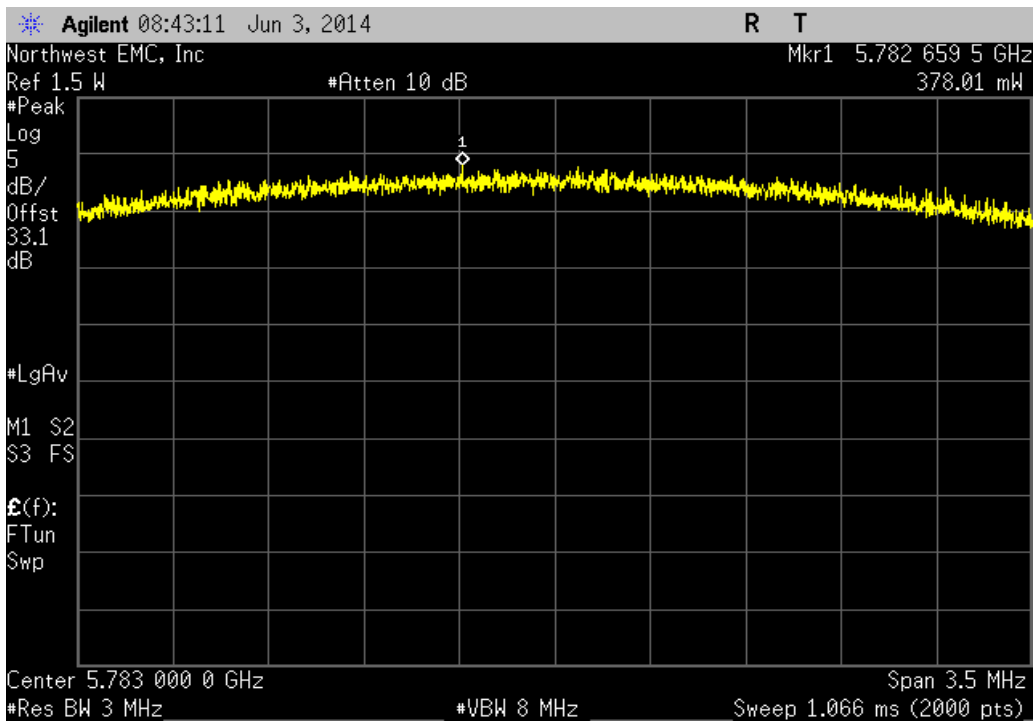
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz

Value	Limit	Result
412.192 mW	< 1 W	Pass



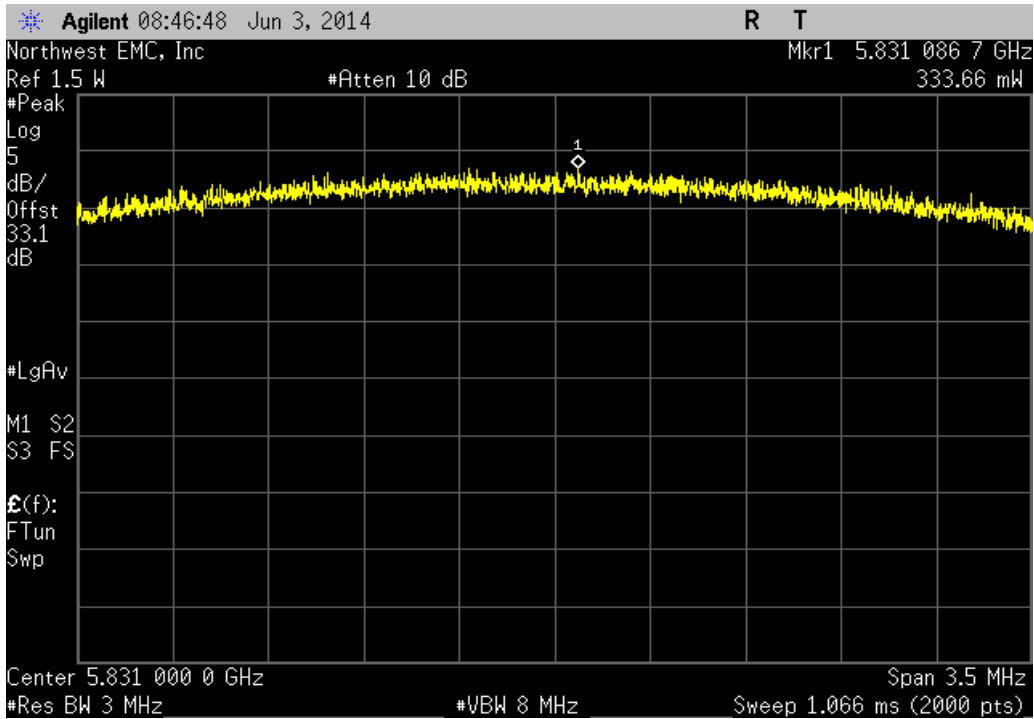
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz

Value	Limit	Result
378.007 mW	< 1 W	Pass



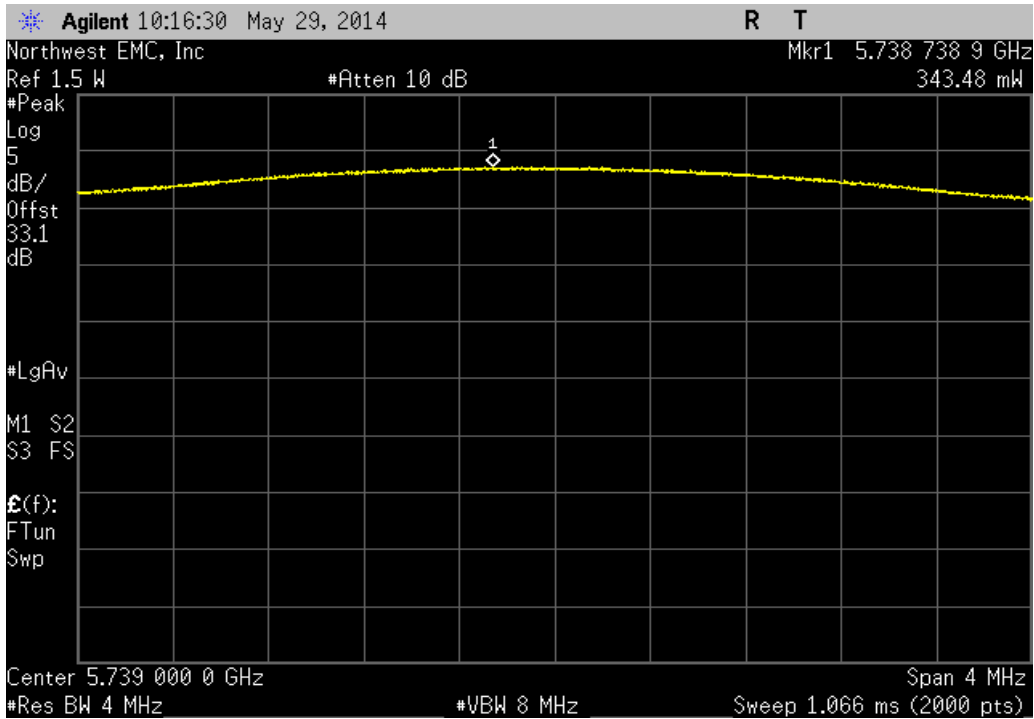
Chain 1, 5725 MHz - 5825 MHz Band, 2.5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz

Value	Limit	Result
333.657 mW	< 1 W	Pass



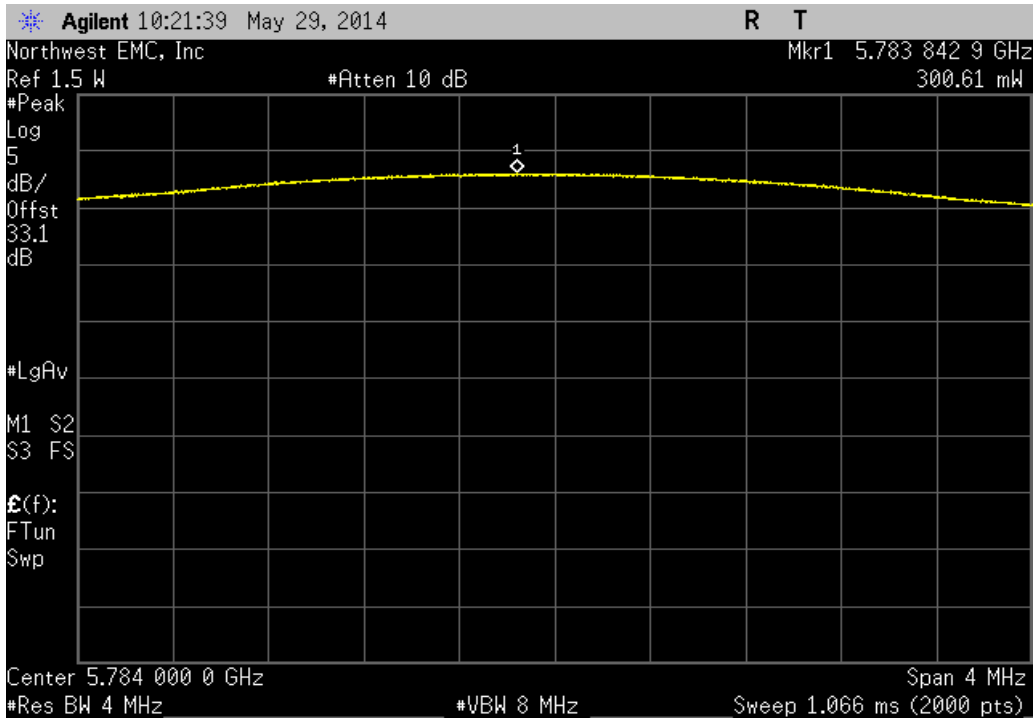
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5739 MHz

Value	Limit	Result
343.479 mW	< 1 W	Pass



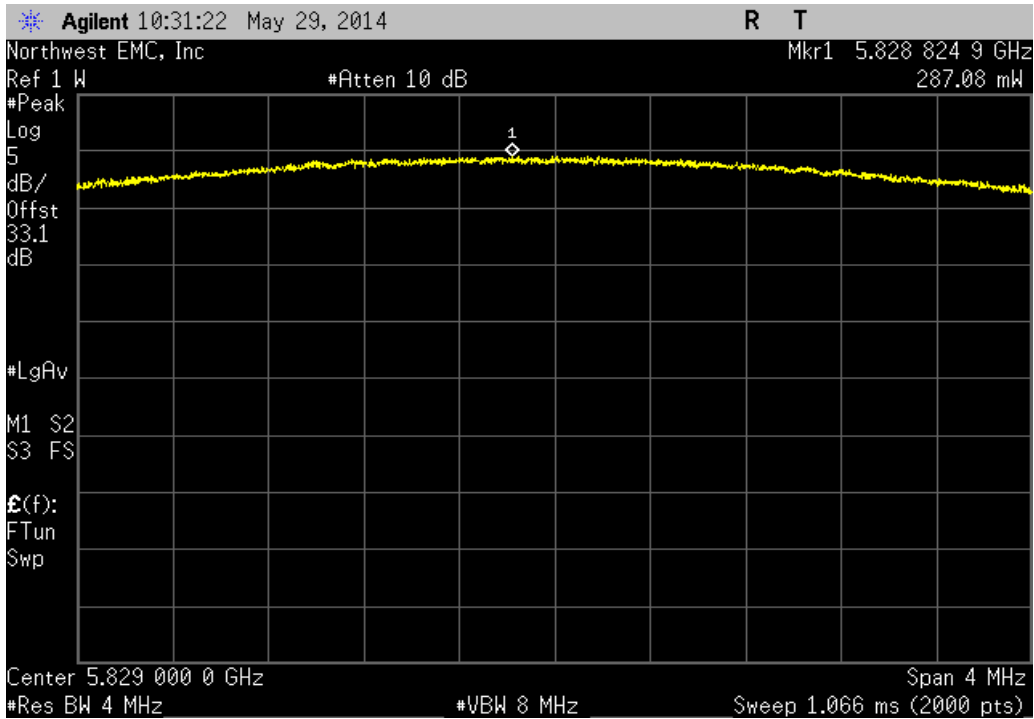
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5784 MHz

Value	Limit	Result
300.608 mW	< 1 W	Pass



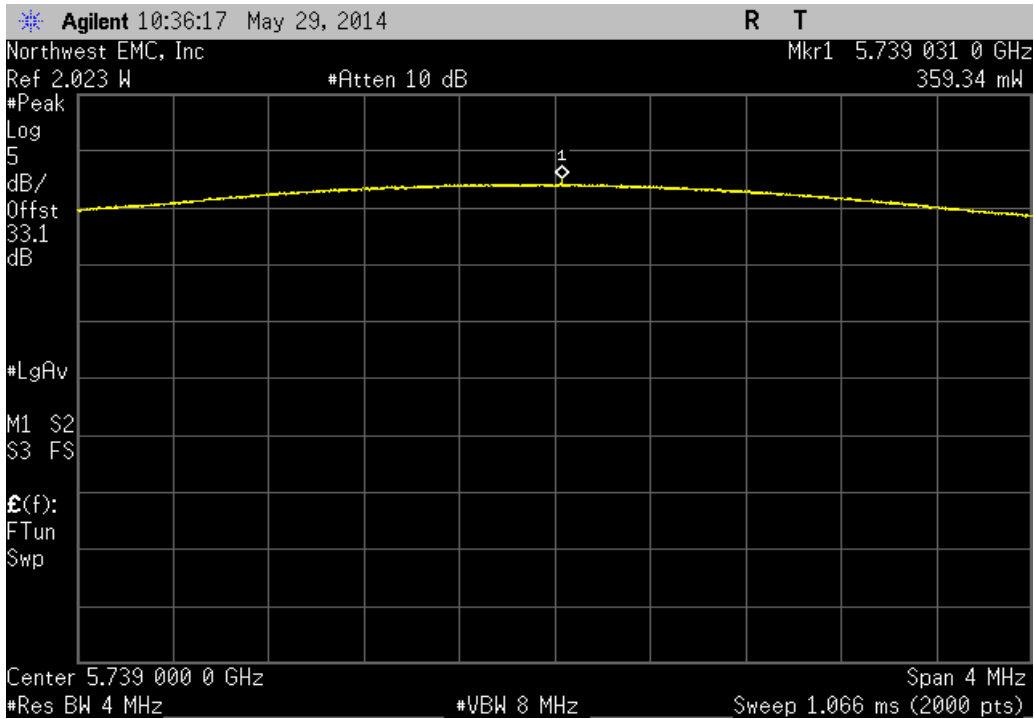
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5829 MHz

Value	Limit	Result
287.078 mW	< 1 W	Pass



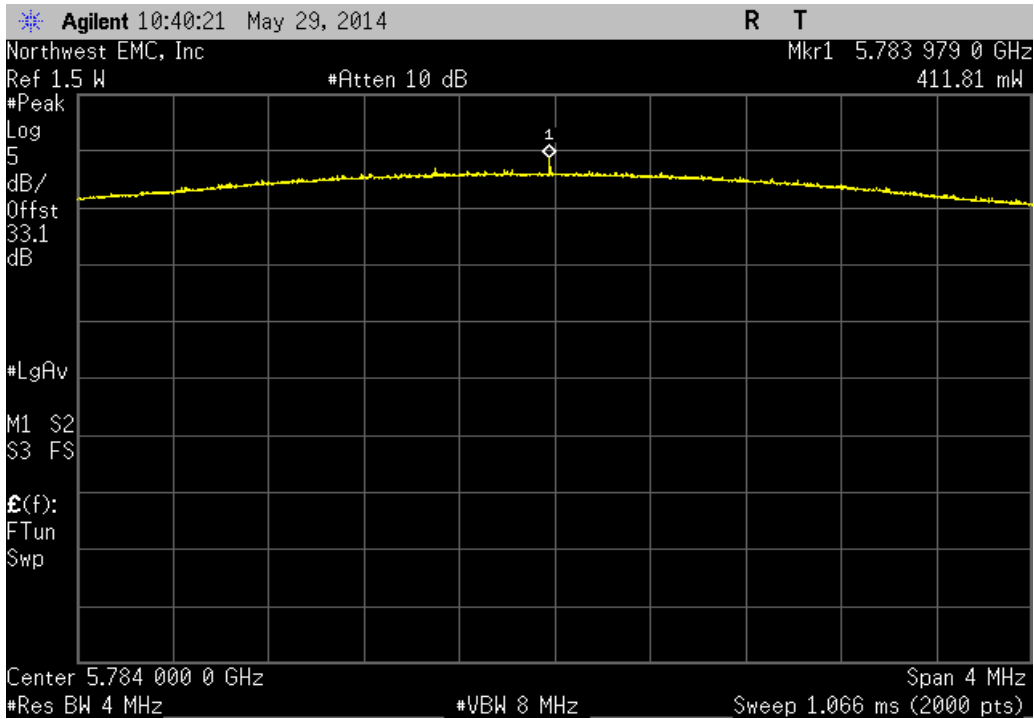
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5739 MHz

Value	Limit	Result
359.335 mW	< 1 W	Pass



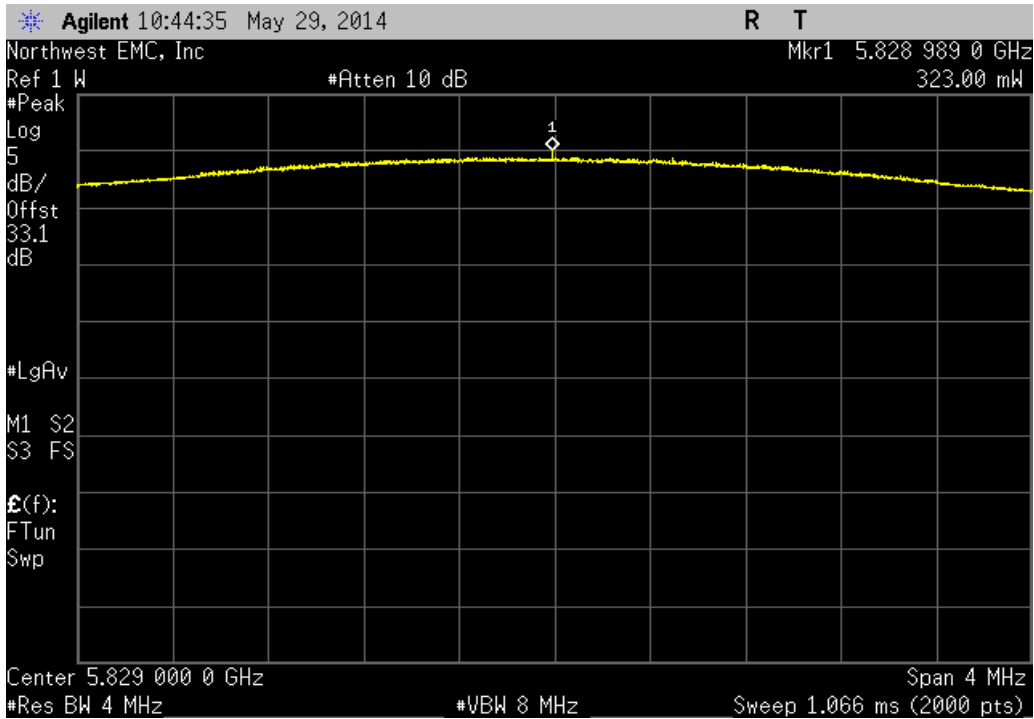
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5784 MHz

Value	Limit	Result
411.813 mW	< 1 W	Pass



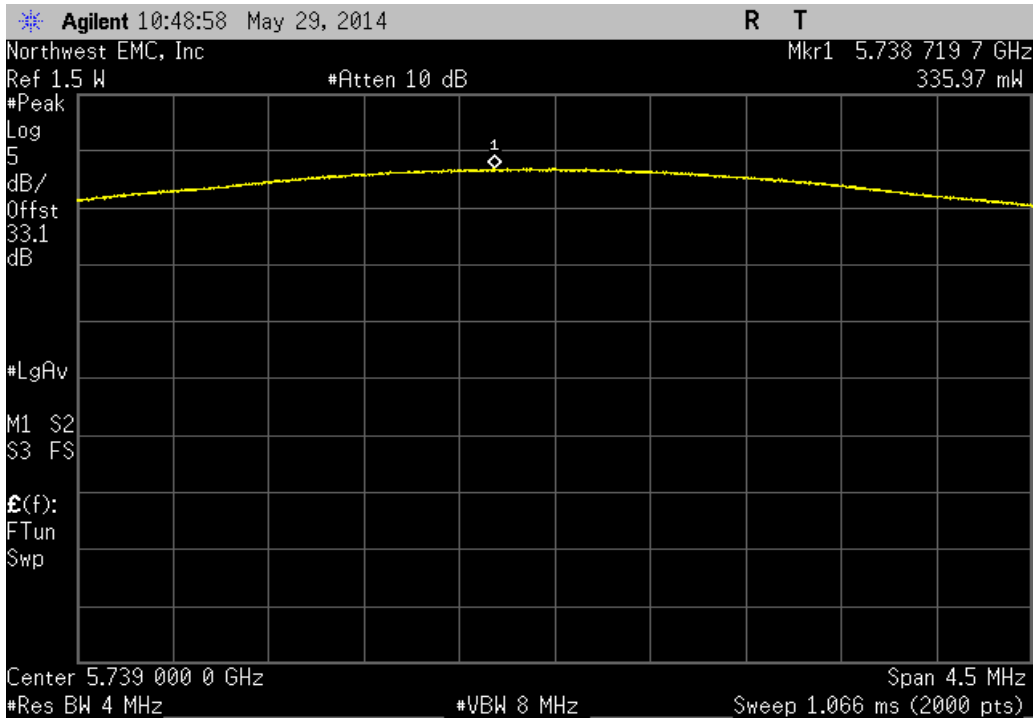
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5829 MHz

Value	Limit	Result
322.998 mW	< 1 W	Pass



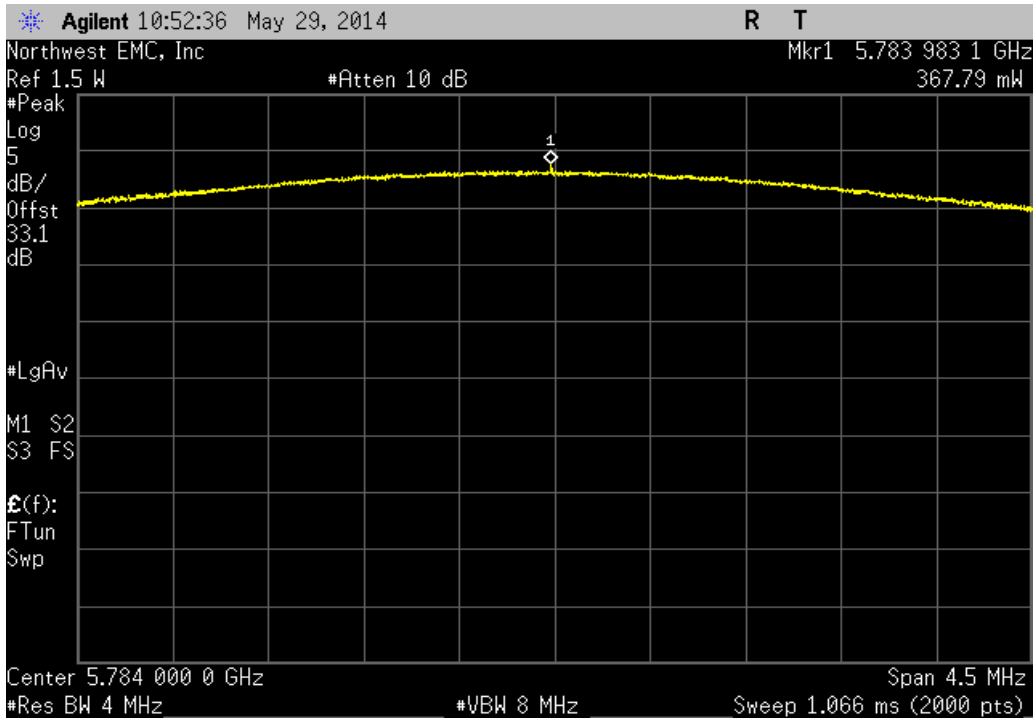
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5739 MHz

Value	Limit	Result
335.97 mW	< 1 W	Pass



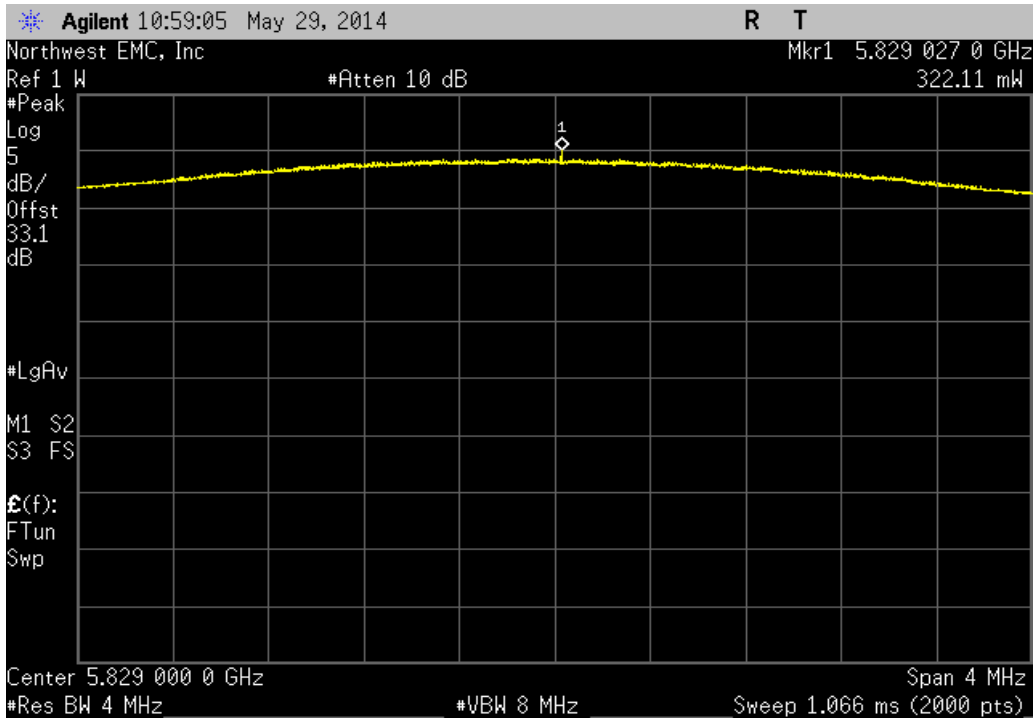
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5784 MHz

Value	Limit	Result
367.79 mW	< 1 W	Pass



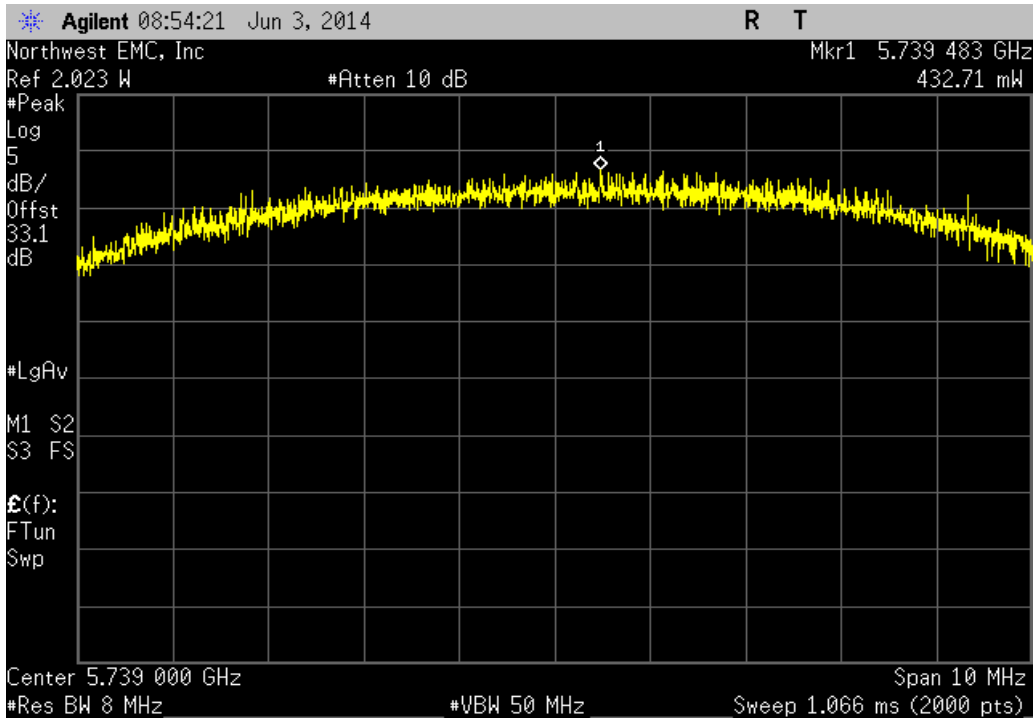
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5829 MHz

Value	Limit	Result
322.107 mW	< 1 W	Pass



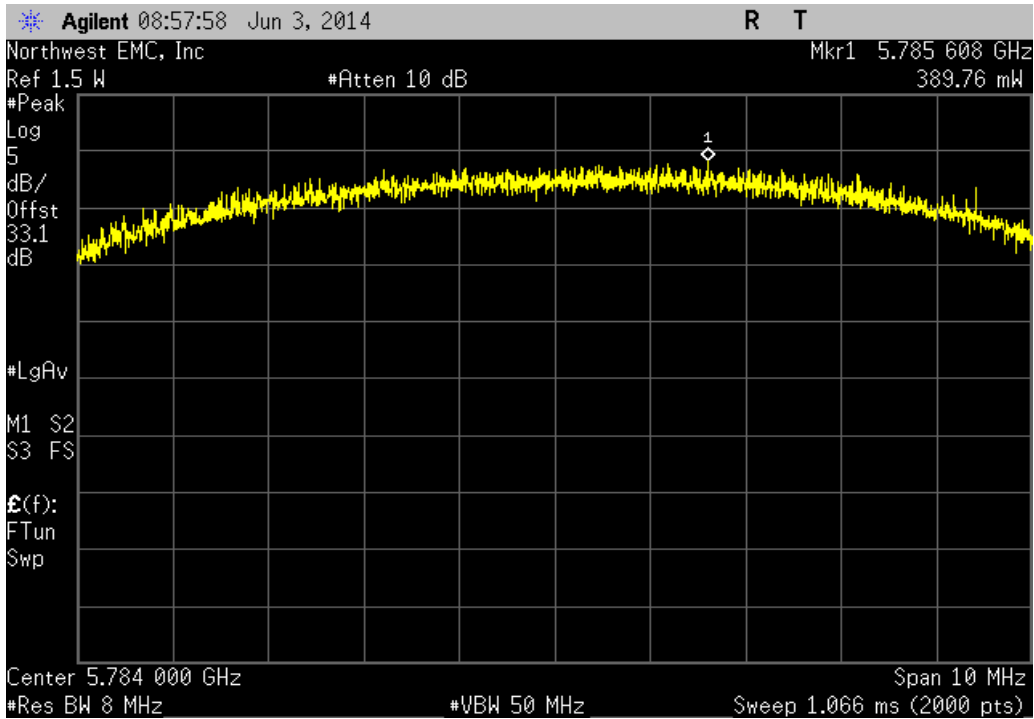
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 5739 MHz

Value	Limit	Result
432.713 mW	< 1 W	Pass



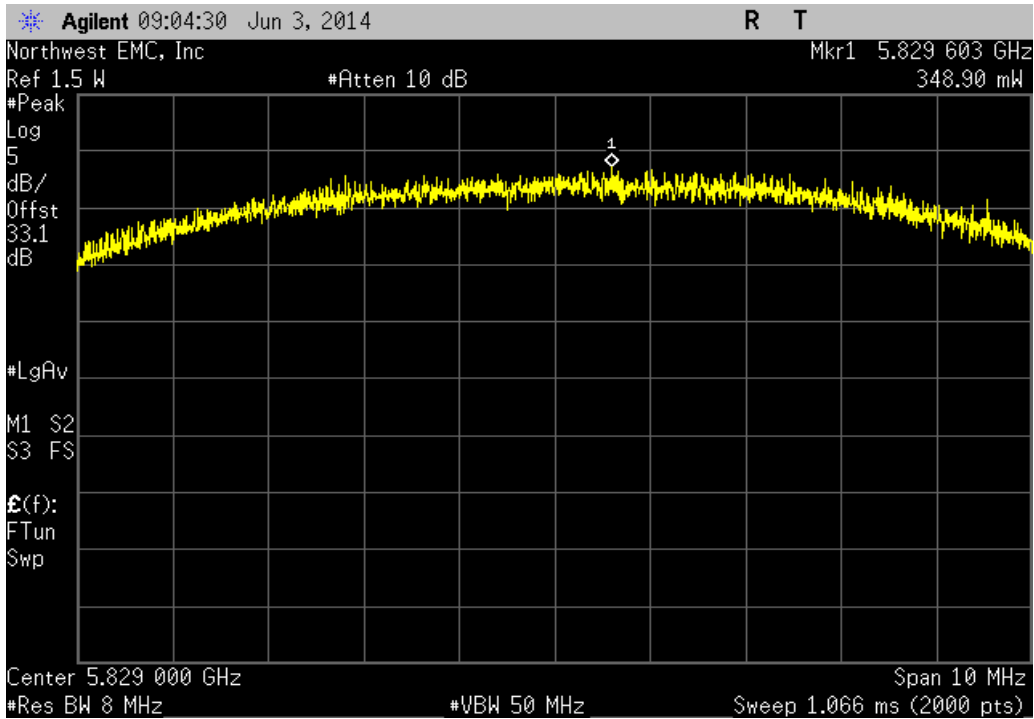
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 5784 MHz

Value	Limit	Result
389.762 mW	< 1 W	Pass



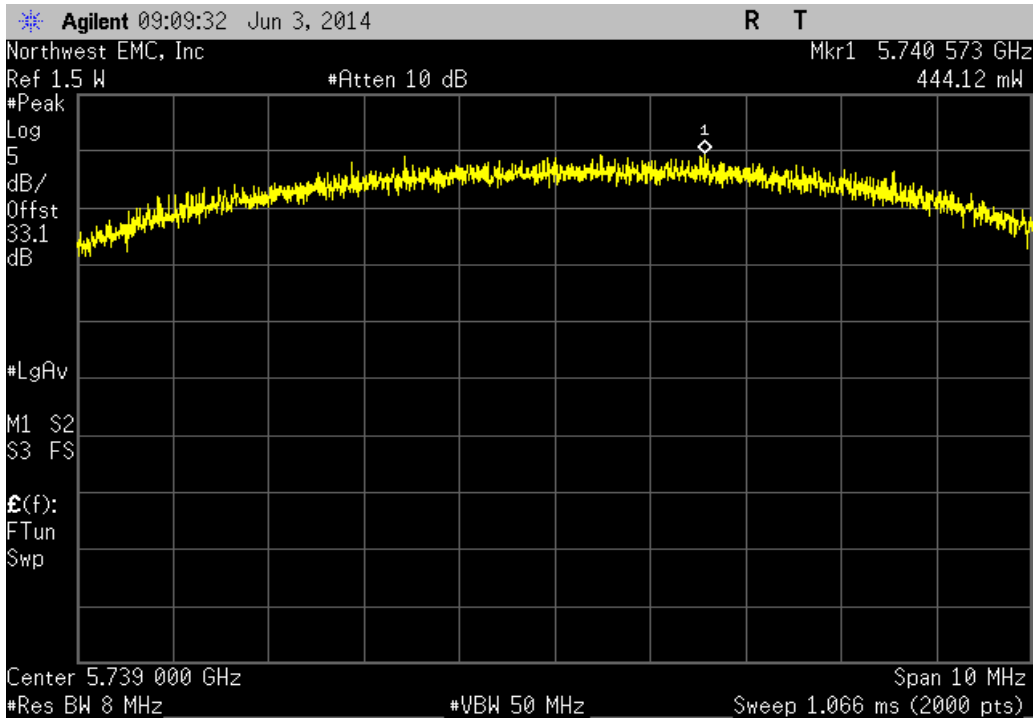
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
348.899 mW	< 1 W	Pass



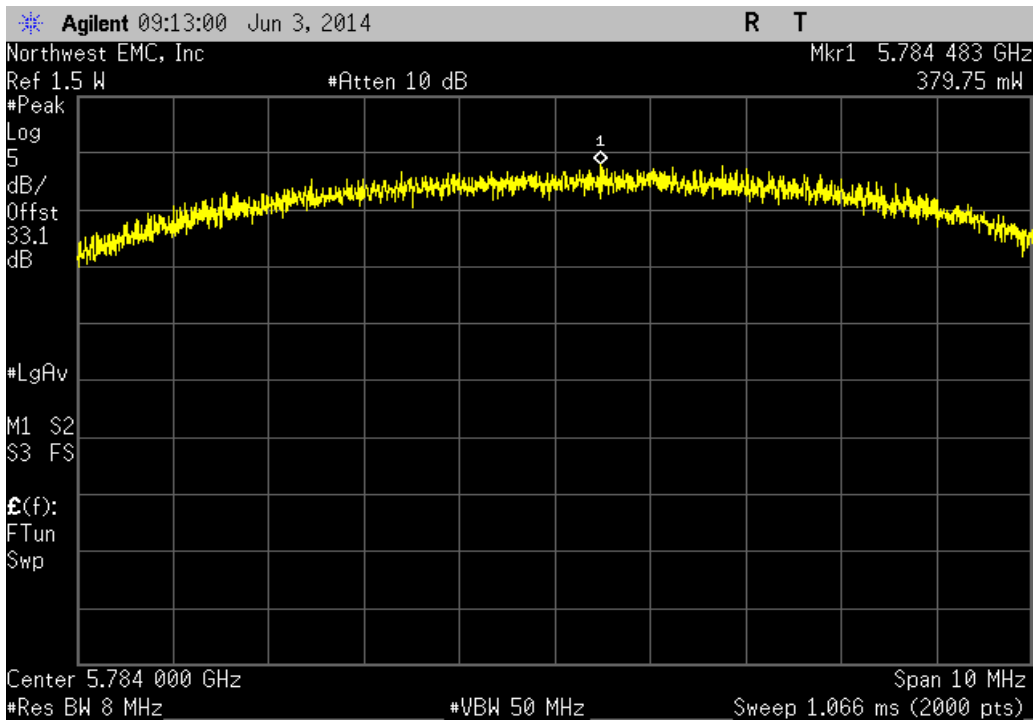
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
444.12 mW	< 1 W	Pass



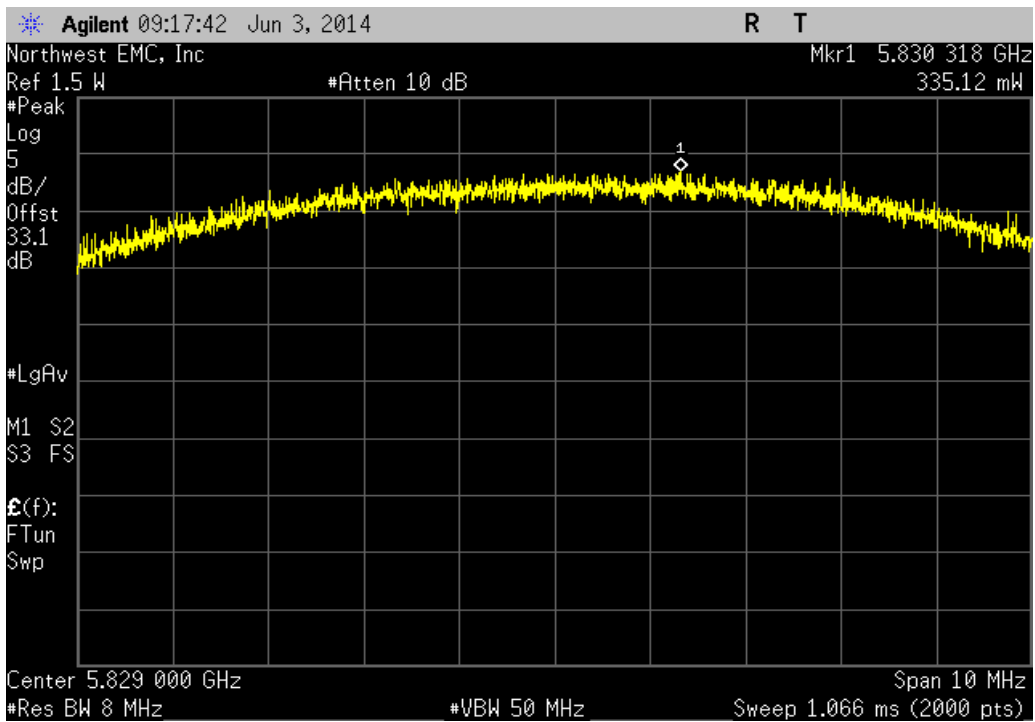
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

Value	Limit	Result
379.752 mW	< 1 W	Pass



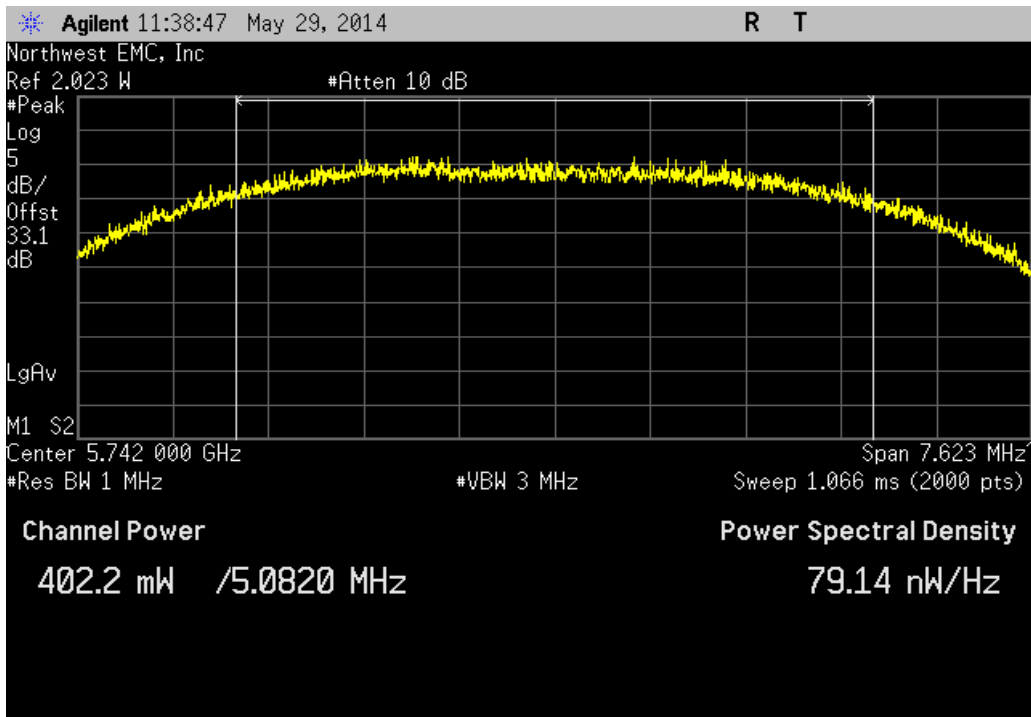
Chain 1, 5725 MHz - 5825 MHz Band, 5 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

Value	Limit	Result
335.12 mW	< 1 W	Pass



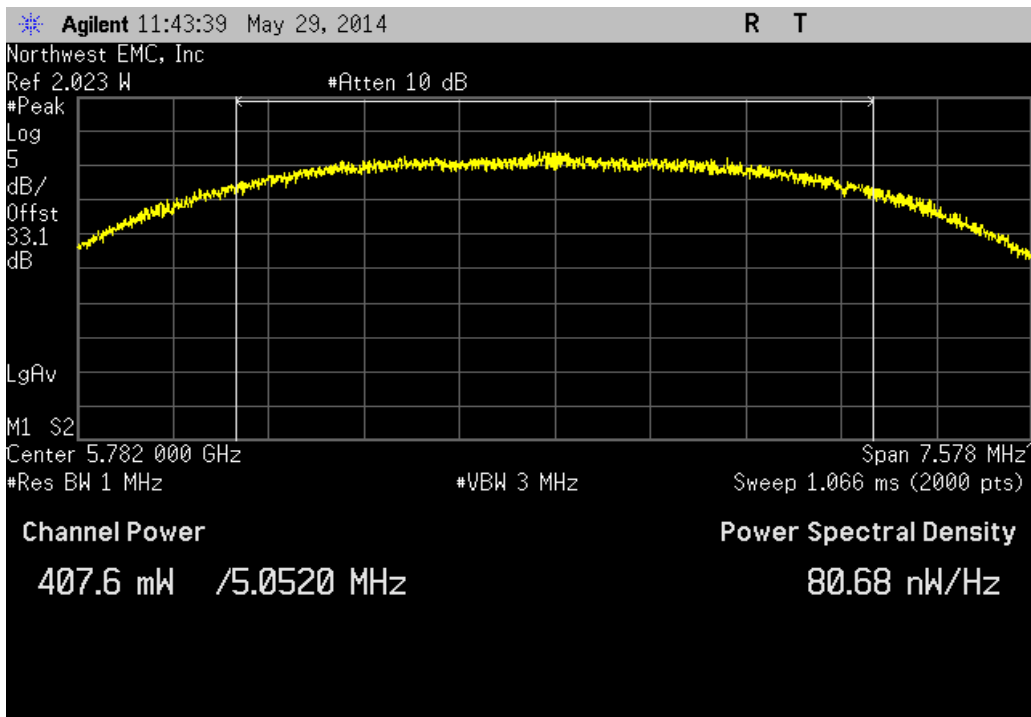
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 5742 MHz

Value	Limit	Result
402.2 mW	< 1 W	Pass



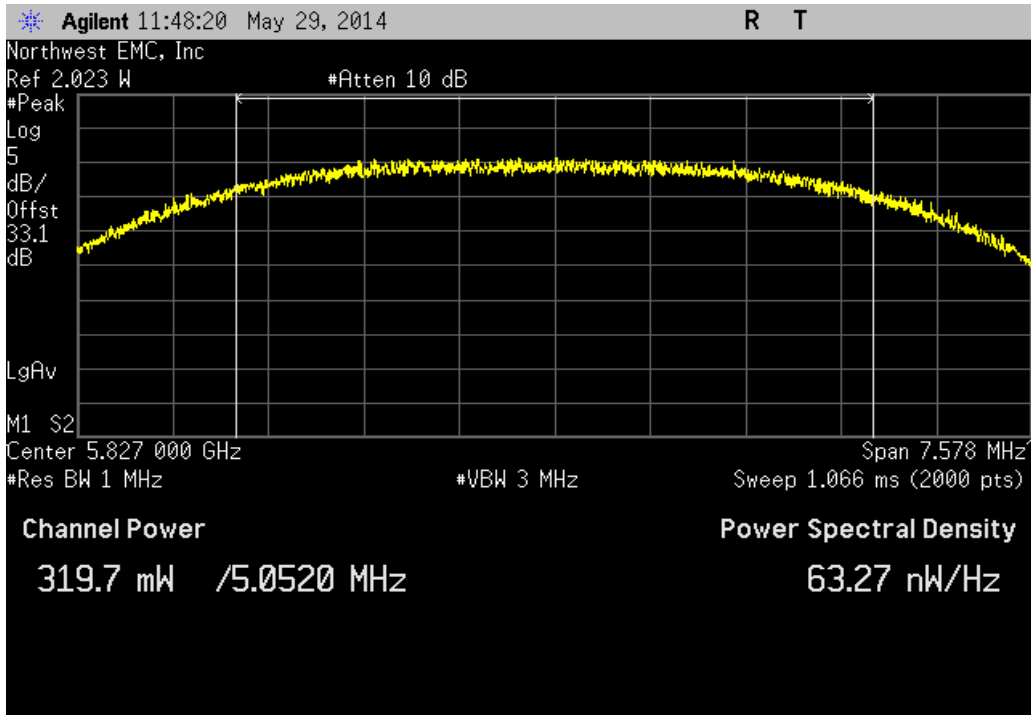
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 5782 MHz

Value	Limit	Result
407.6 mW	< 1 W	Pass



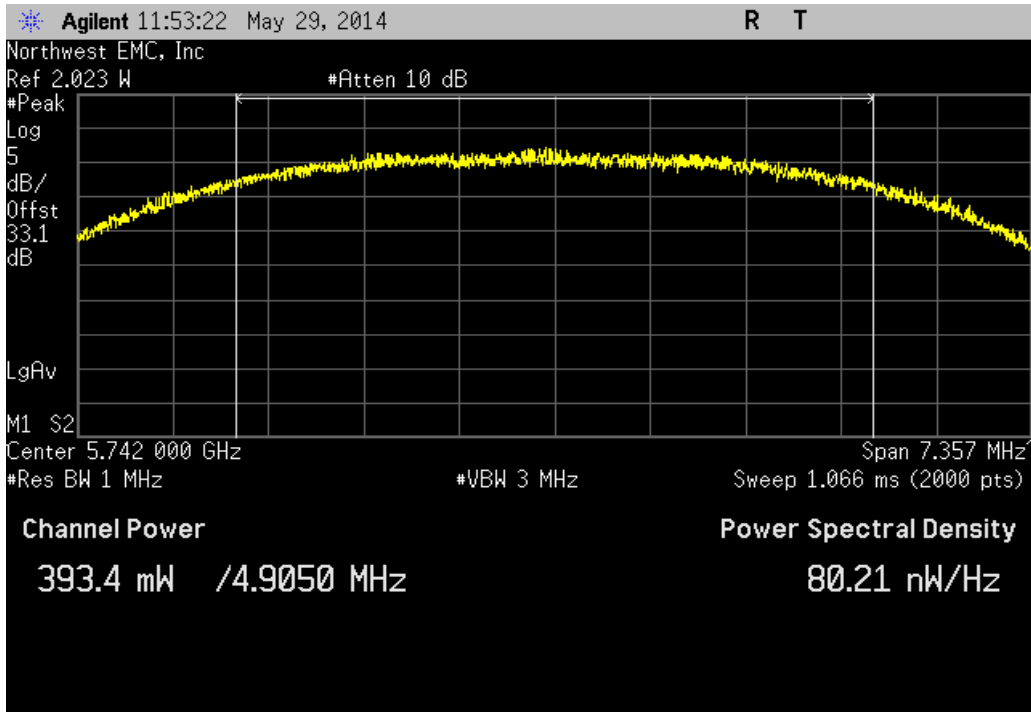
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 5827 MHz

	Value	Limit	Result
	319.7 mW	< 1 W	Pass



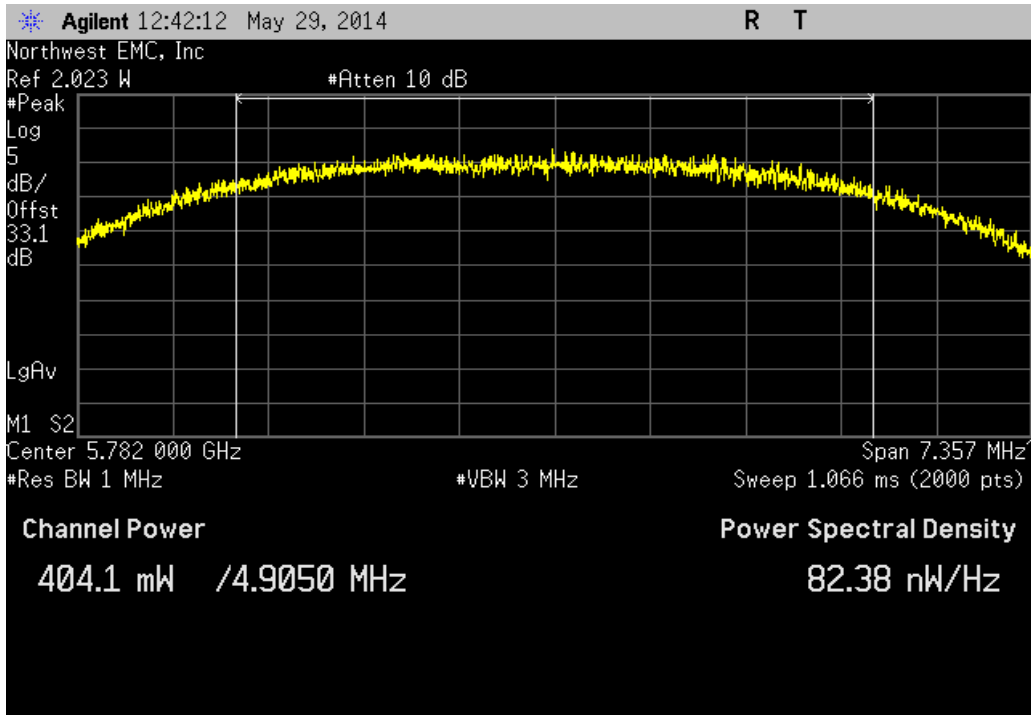
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 5742 MHz

	Value	Limit	Result
	393.4 mW	< 1 W	Pass



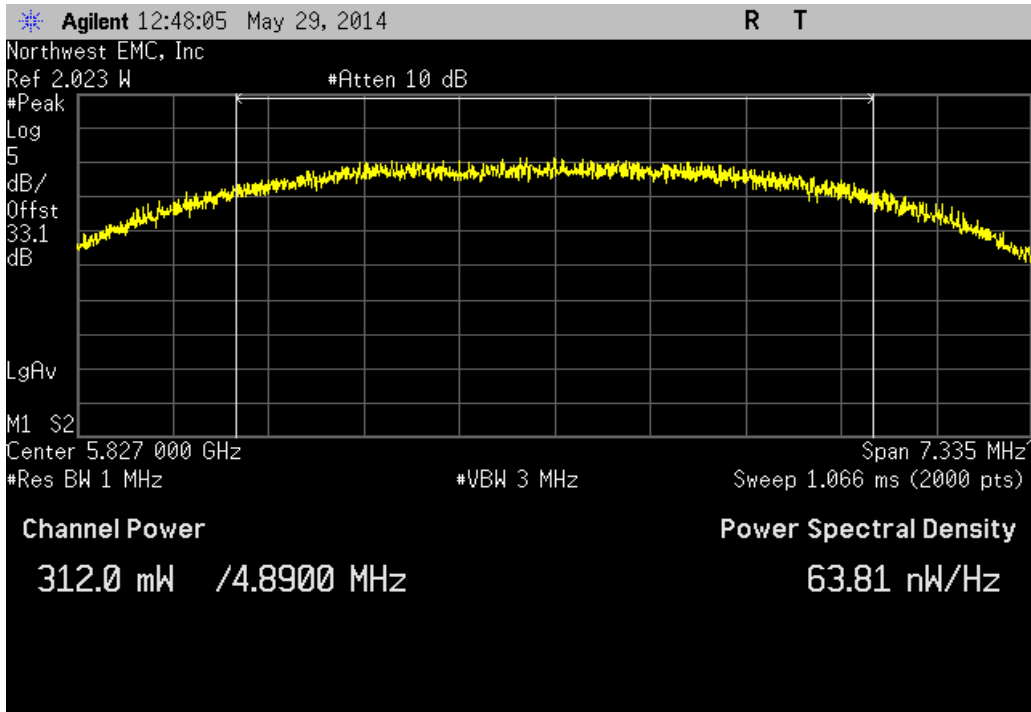
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 5782 MHz

	Value	Limit	Result
	404.1 mW	< 1 W	Pass



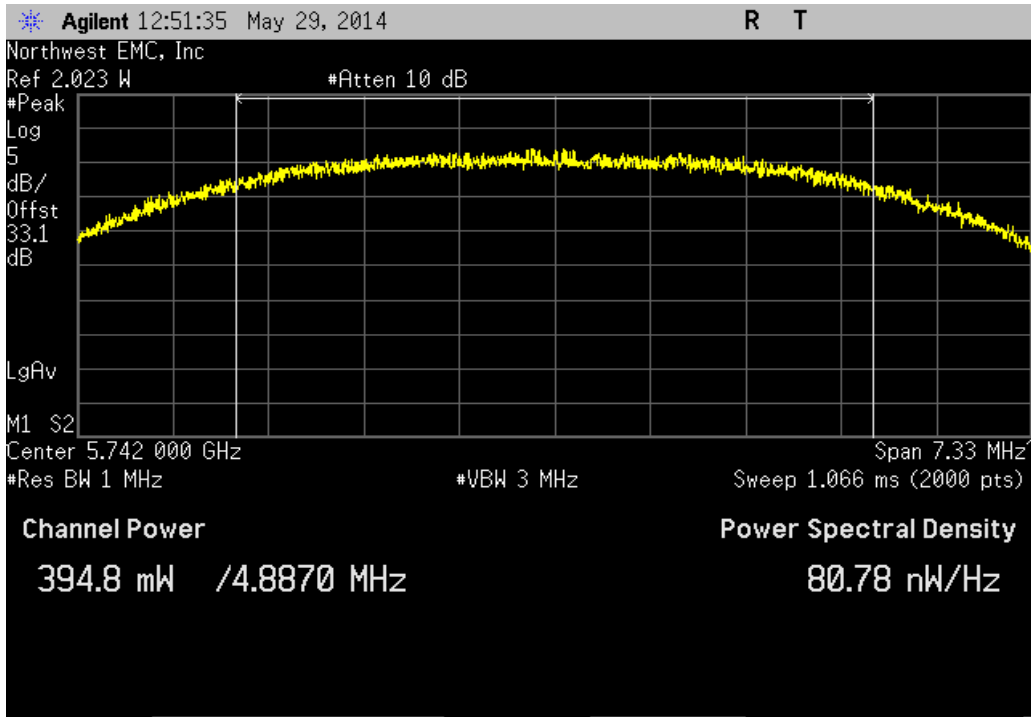
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 5827 MHz

	Value	Limit	Result
	312.0 mW	< 1 W	Pass



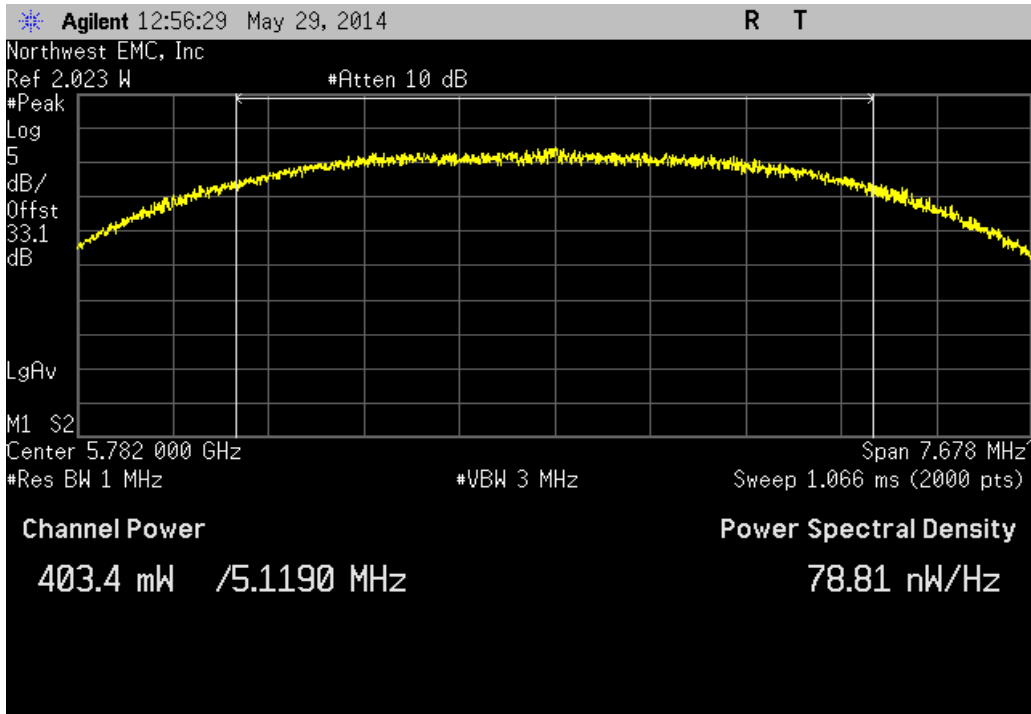
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 5742 MHz

	Value	Limit	Result
	394.8 mW	< 1 W	Pass



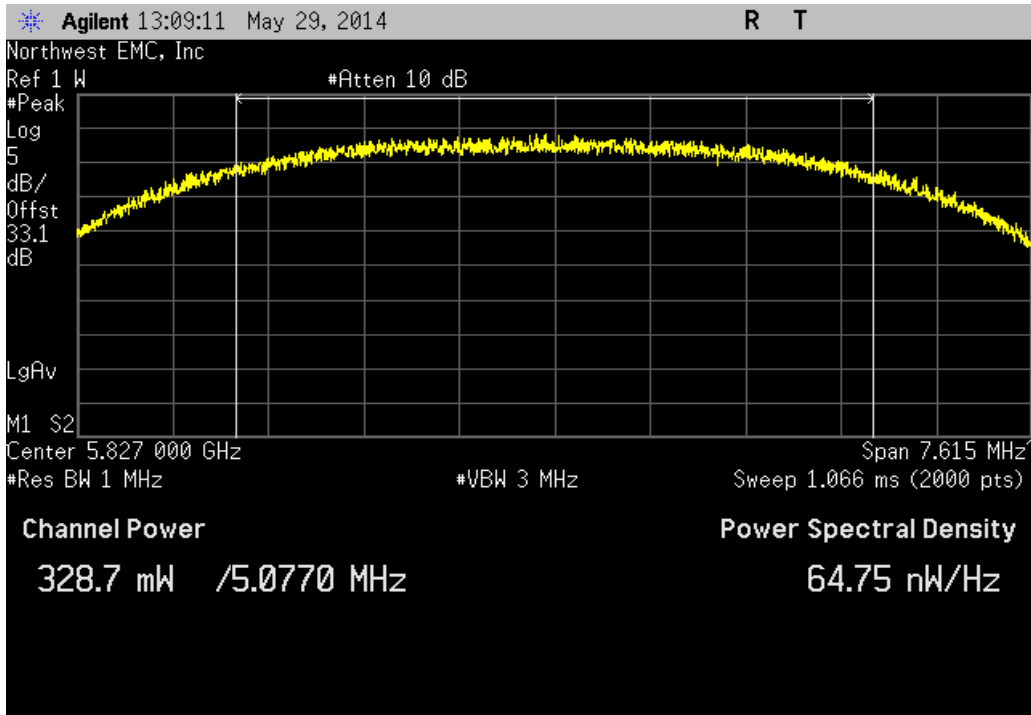
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 5782 MHz

	Value	Limit	Result
	403.4 mW	< 1 W	Pass



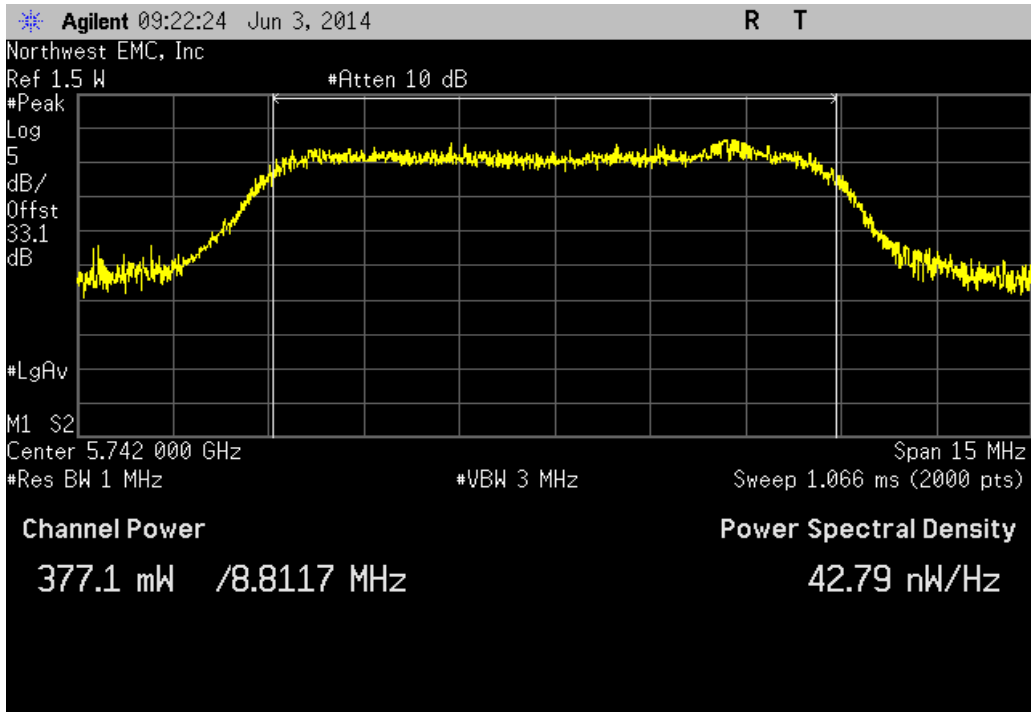
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 5827 MHz

	Value	Limit	Result
	328.7 mW	< 1 W	Pass



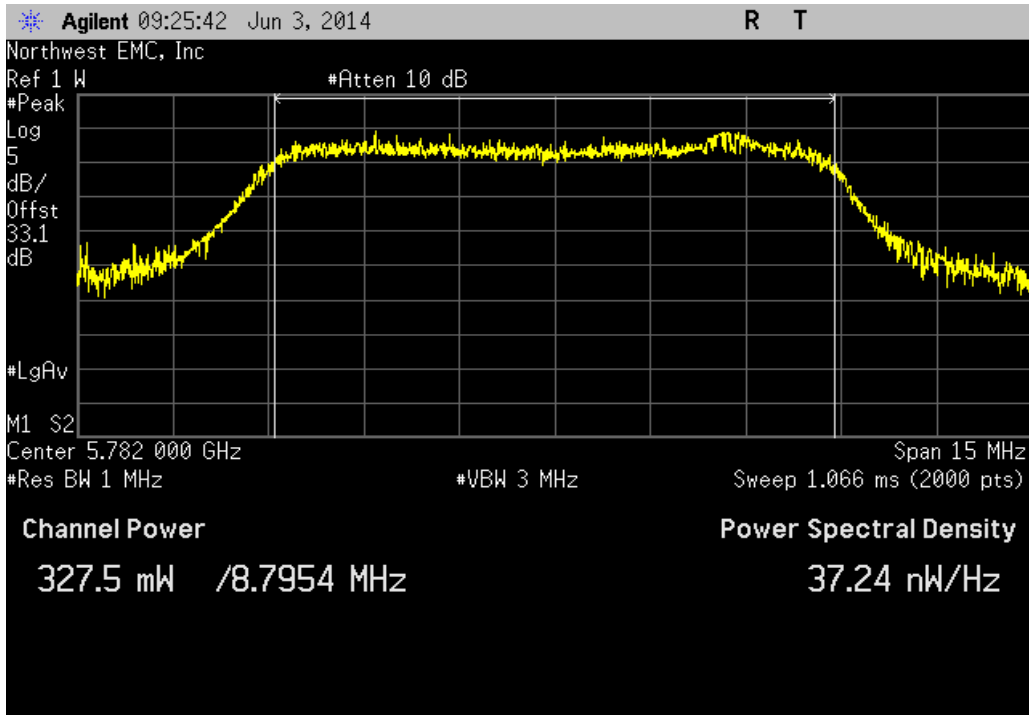
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

	Value	Limit	Result
	377.068 mW	< 1 W	Pass



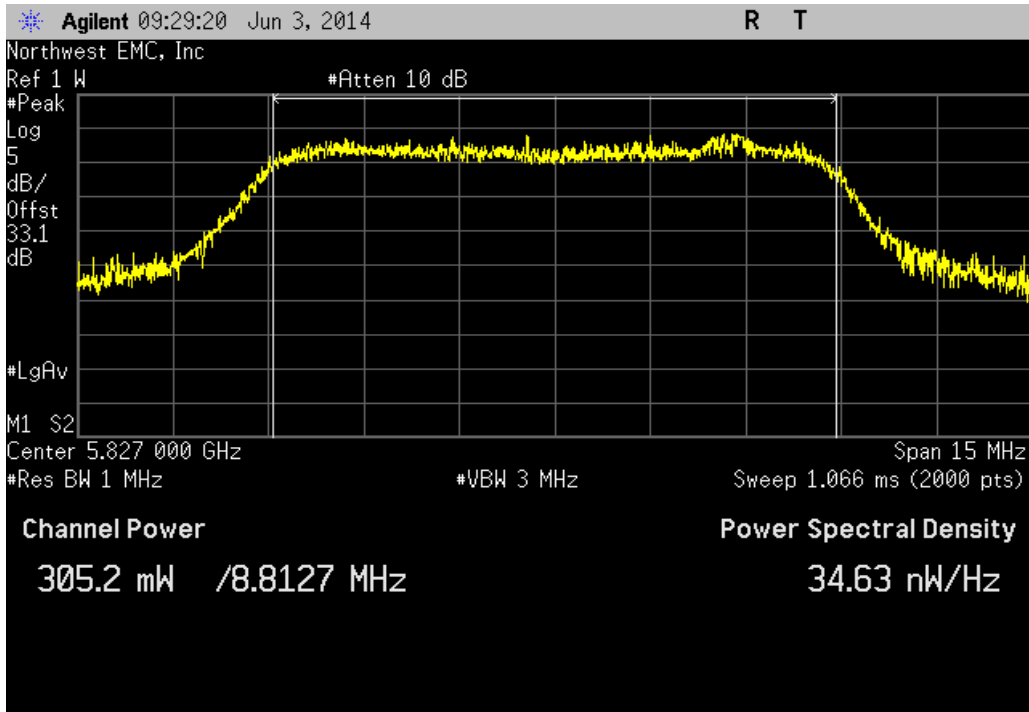
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, , Mid Channel 5782 MHz

	Value	Limit	Result
	327.505 mW	< 1 W	Pass



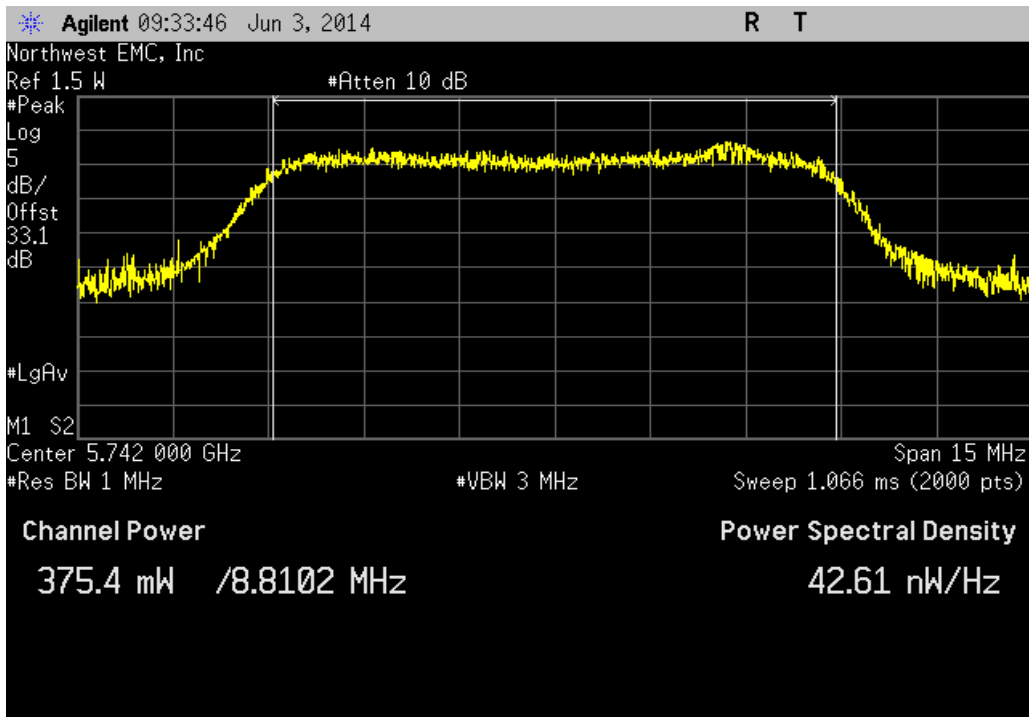
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, BPSK, Coding Rate, 1/2, , High Channel 5827 MHz

	Value	Limit	Result
	305.209 mW	< 1 W	Pass



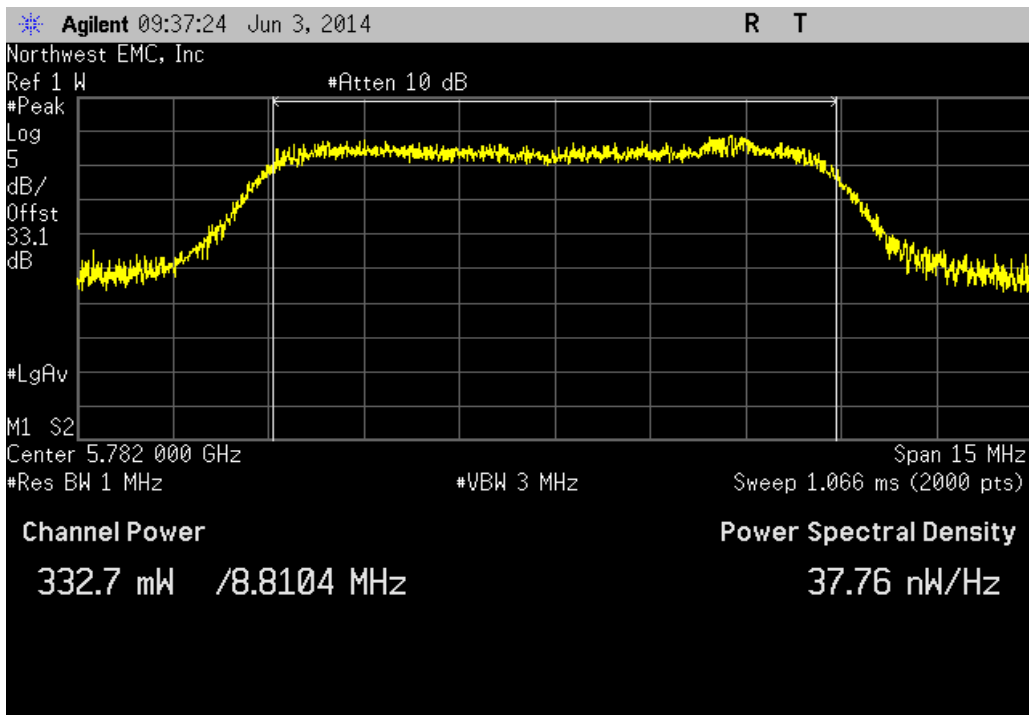
Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

Value	Limit	Result
375.407 mW	< 1 W	Pass

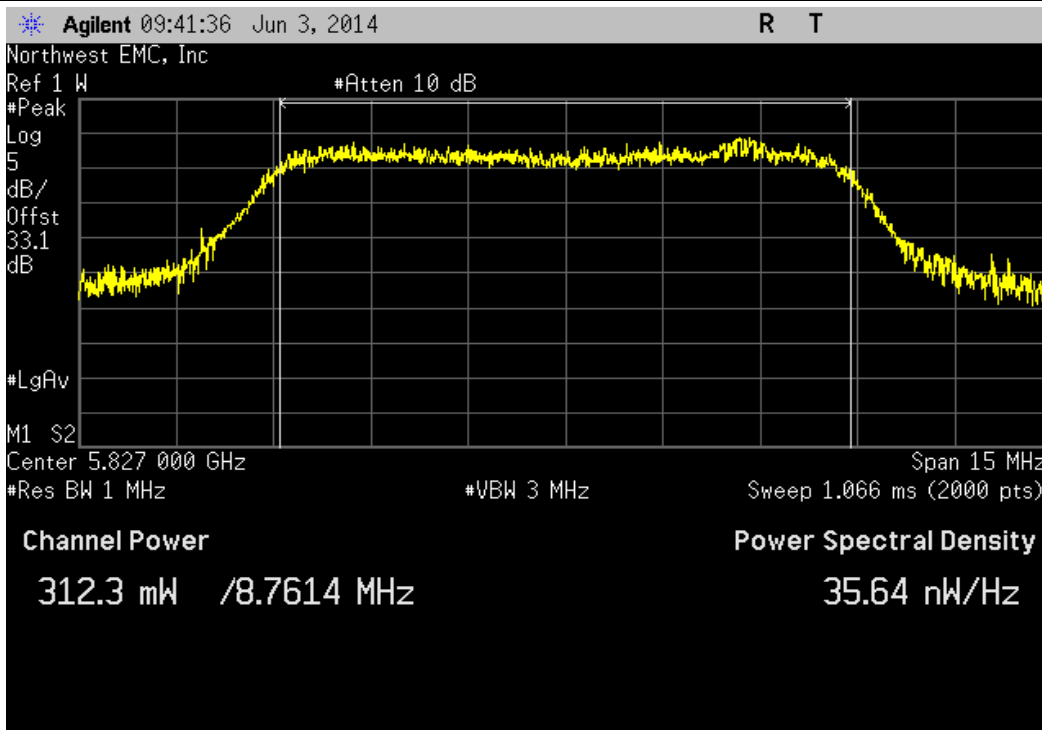


Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz

Value	Limit	Result
332.673 mW	< 1 W	Pass



Chain 1, 5725 MHz - 5825 MHz Band, 10 MHz, Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz			
	Value	Limit	Result
	312.285 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

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.	Interval (mo)
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Two methods found in the KDB 558074 DTS D01 were used for Measurement.

Section 9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

Section 9.1.2 was used because the DTS Bandwidth of the radio was greater than the RBW on the analyzer.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.



OUTPUT POWER - 2x2 MIMO

XMI 2014.02.07
PsaTx 2014.04.01

EUT: WavePoint - 5GHz Radio (W5800-01)	Work Order: FREW0028
Serial Number: 00:07:E7:A0:01:F1	Date: 06/03/14
Customer: FreeWave Technologies, Inc.	Temperature: 22.6°C
Attendees: Dean Busch	Humidity: 43%
Project: None	Barometric Pres.: 1018.7
Tested by: Brandon Hobbs, Jared Ison	Power: 110VAC/60Hz
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS
An additional 10dB 5watt attenuator was used inline for all measurements made while under test. Please reference the power table for power settings used while under test.

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature 
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	Value	Limit	Result
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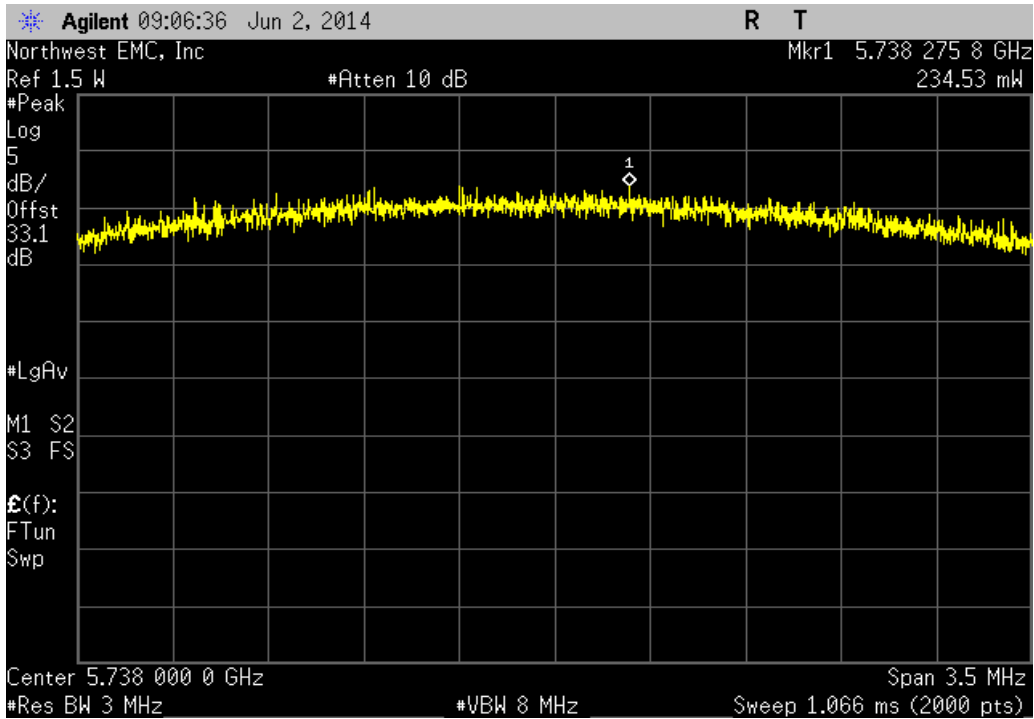
Chain 1	5725 MHz - 5850 MHz Band	2.5 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5738 MHz	234.531 mW	< 1 W	Pass
				Mid Channel 5783 MHz	182.096 mW	< 1 W	Pass
				High Channel 5831 MHz	152.125 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5738 MHz	207.587 mW	< 1 W	Pass
				Mid Channel 5783 MHz	178.525 mW	< 1 W	Pass
				High Channel 5831 MHz	184.374 mW	< 1 W	Pass
		5 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5739 MHz	206.443 mW	< 1 W	Pass
				Mid Channel 5784 MHz	178.32 mW	< 1 W	Pass
				High Channel 5829 MHz	168.074 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5739 MHz	212.178 mW	< 1 W	Pass
				Mid Channel 5784 MHz	154.206 mW	< 1 W	Pass
				High Channel 5829 MHz	129.003 mW	< 1 W	Pass
		10 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5742 MHz	132.638 mW	< 1 W	Pass
				Mid Channel 5782 MHz	124.011 mW	< 1 W	Pass
				High Channel 5827 MHz	87.035 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5742 MHz	128.789 mW	< 1 W	Pass
				Mid Channel 5782 MHz	126.037 mW	< 1 W	Pass
				High Channel 5827 MHz	92.808 mW	< 1 W	Pass

Chain 2	5725 MHz - 5850 MHz Band	2.5 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5738 MHz	234.531 mW	< 1 W	Pass
				Mid Channel 5783 MHz	199.48 mW	< 1 W	Pass
				High Channel 5831 MHz	163.682 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5738 MHz	235.613 mW	< 1 W	Pass
				Mid Channel 5783 MHz	202.628 mW	< 1 W	Pass
				High Channel 5831 MHz	151.321 mW	< 1 W	Pass
		5 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5739 MHz	233.4 mW	< 1 W	Pass
				Mid Channel 5784 MHz	207.205 mW	< 1 W	Pass
				High Channel 5829 MHz	167.726 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5739 MHz	229.985 mW	< 1 W	Pass
				Mid Channel 5784 MHz	190.152 mW	< 1 W	Pass
				High Channel 5829 MHz	166.341 mW	< 1 W	Pass
		10 MHz	2x2 Modulation Type, BPSK, Coding Rate, 1/2.	Low Channel 5742 MHz	166.353 mW	< 1 W	Pass
				Mid Channel 5782 MHz	146.933 mW	< 1 W	Pass
				High Channel 5827 MHz	106.633 mW	< 1 W	Pass
			2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.	Low Channel 5742 MHz	154.425 mW	< 1 W	Pass
				Mid Channel 5782 MHz	144.99 mW	< 1 W	Pass
				High Channel 5827 MHz	108.255 mW	< 1 W	Pass

Chain 1,2	5725 MHz - 5850 MHz Band	2.5MHz Bandwidth	Chain 1 (dBm)	Chain 1 (mw)	Chain 2 (dBm)	Chain 2 (mw)	Summed Power (mW)	Result
			N/A	234.531000	N/A	234.531000	469.062000	Pass
			N/A	182.096000	N/A	199.480000	381.576000	Pass
			N/A	152.125000	N/A	163.682000	315.807000	Pass
			N/A	207.587000	N/A	235.613000	443.200000	Pass
			N/A	178.525000	N/A	202.628000	381.153000	Pass
			N/A	184.374000	N/A	151.321000	335.695000	Pass
		5MHz Bandwidth	N/A	206.443000	N/A	233.400000	439.843000	Pass
			N/A	178.320000	N/A	207.205000	385.525000	Pass
			N/A	168.074000	N/A	167.726000	335.800000	Pass
			N/A	212.178000	N/A	229.985000	442.163000	Pass
			N/A	154.206000	N/A	190.152000	344.358000	Pass
			N/A	129.003000	N/A	166.341000	295.344000	Pass
		10MHz Bandwidth	N/A	132.638000	N/A	166.353000	298.991000	Pass
			N/A	124.011000	N/A	146.933000	270.944000	Pass
			N/A	87.035000	N/A	106.633000	193.668000	Pass
			N/A	128.789000	N/A	154.425000	283.214000	Pass
			N/A	126.037000	N/A	144.990000	271.027000	Pass
			N/A	92.808000	N/A	108.255000	201.063000	Pass

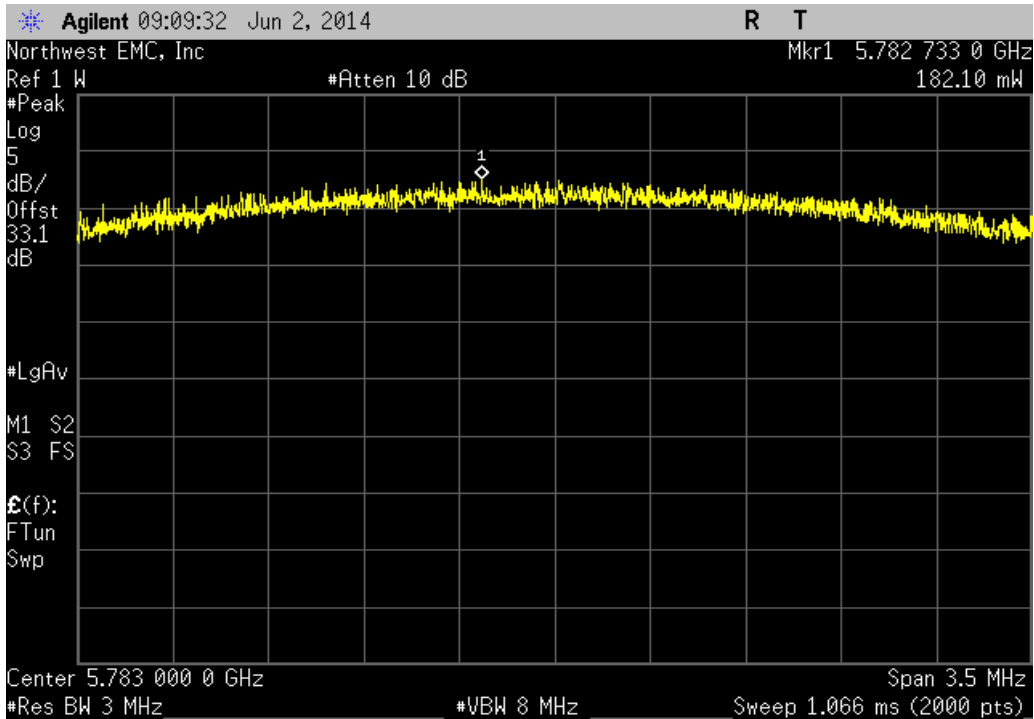
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

Value	Limit	Result
234.531 mW	< 1 W	Pass

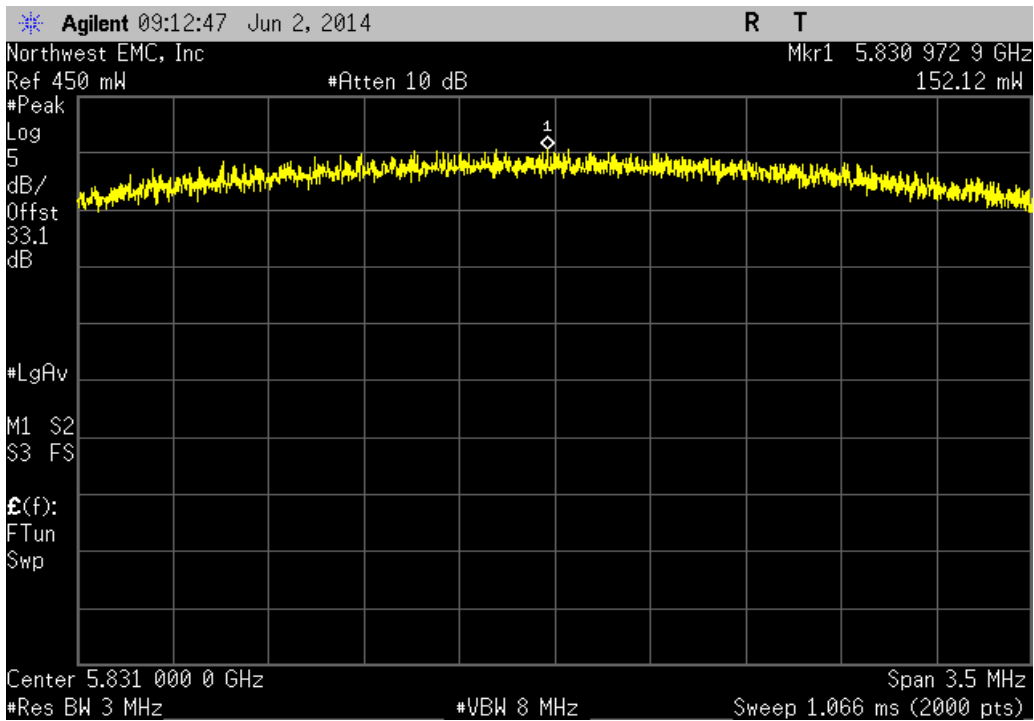


Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5783 MHz

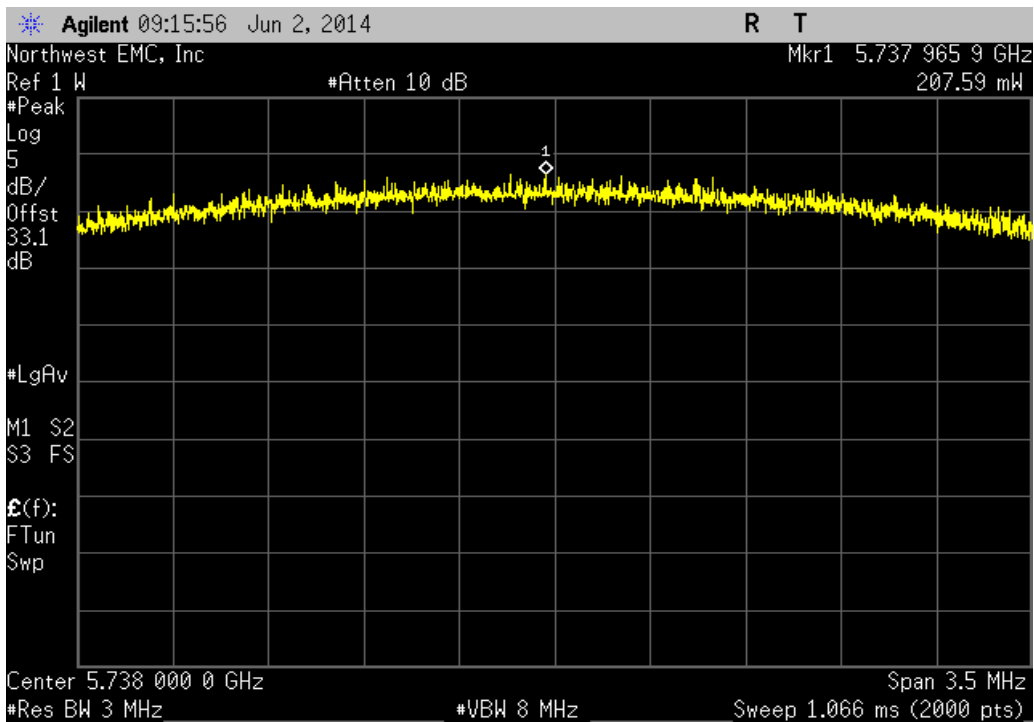
Value	Limit	Result
182.096 mW	< 1 W	Pass



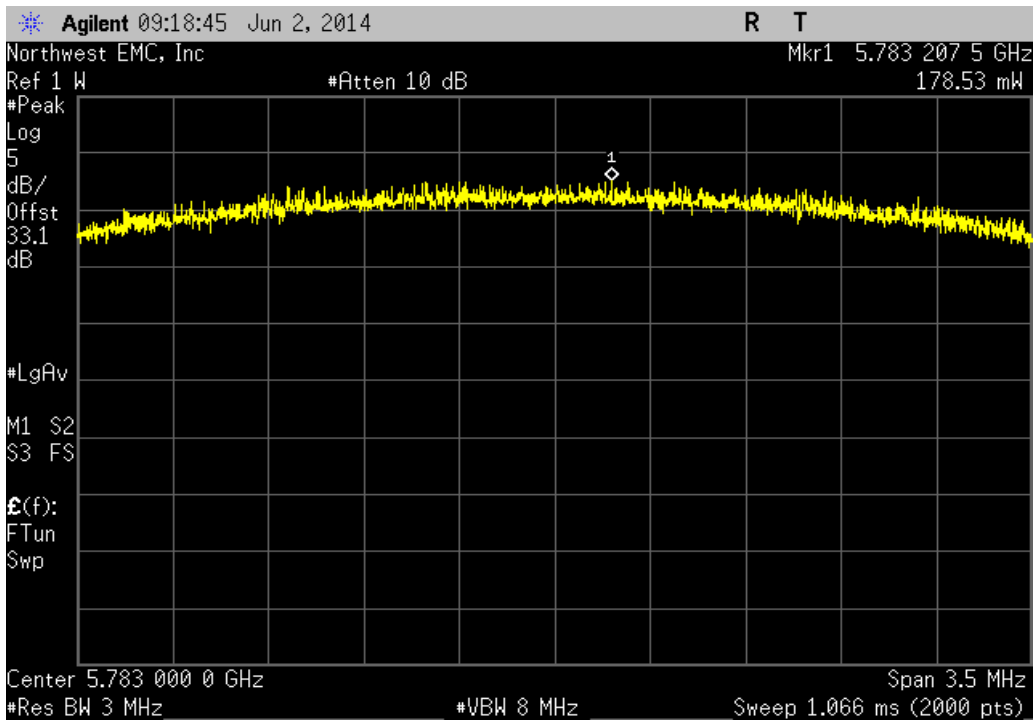
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5831 MHz		
Value	Limit	Result
152.125 mW	< 1 W	Pass



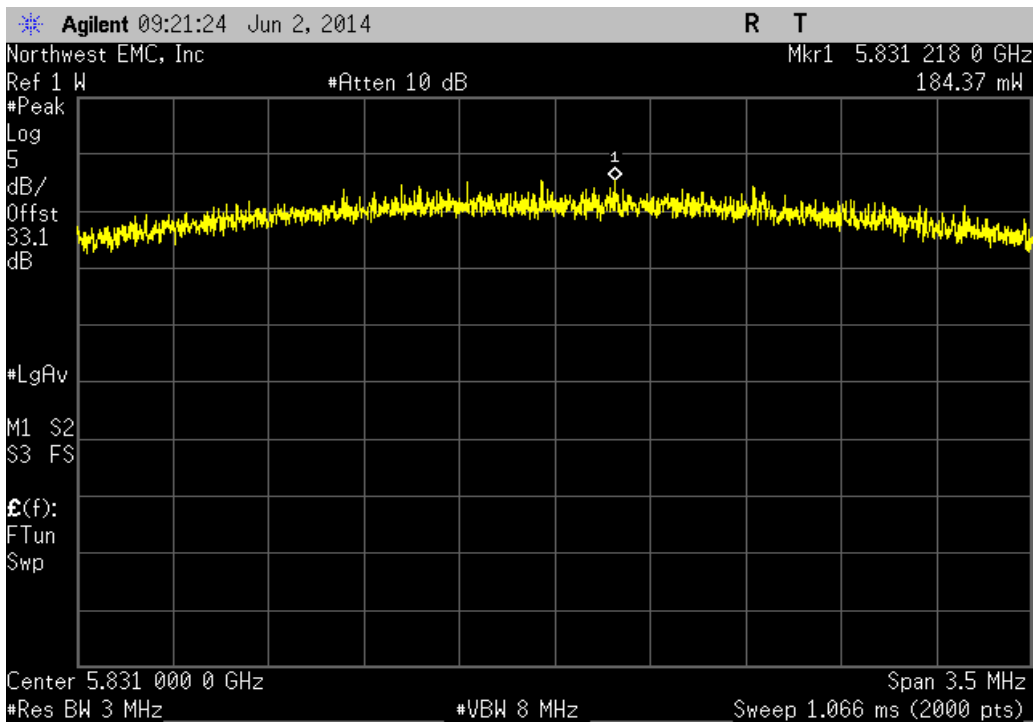
Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz		
Value	Limit	Result
207.587 mW	< 1 W	Pass



Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz		
Value	Limit	Result
178.525 mW	< 1 W	Pass

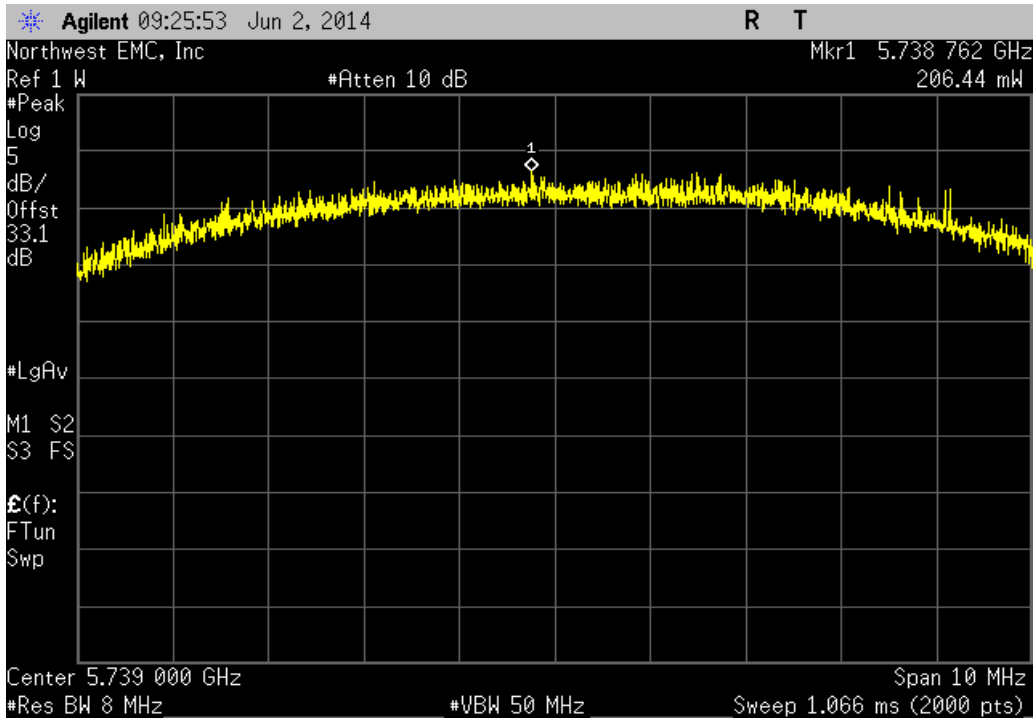


Chain 1, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz		
Value	Limit	Result
184.374 mW	< 1 W	Pass



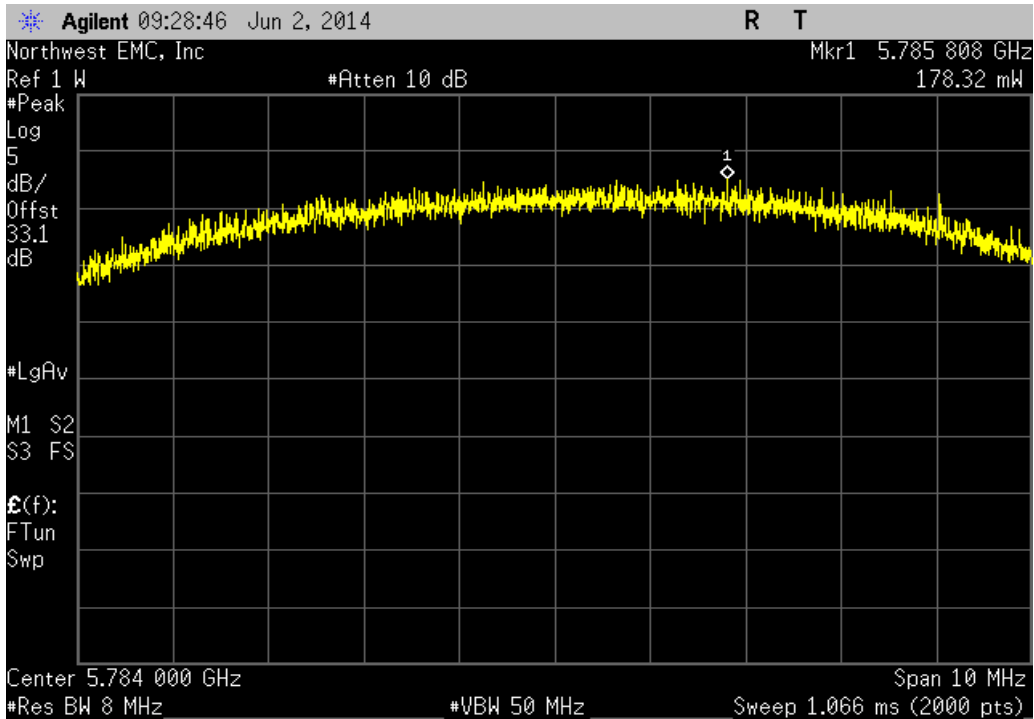
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5739 MHz

Value	Limit	Result
206.443 mW	< 1 W	Pass



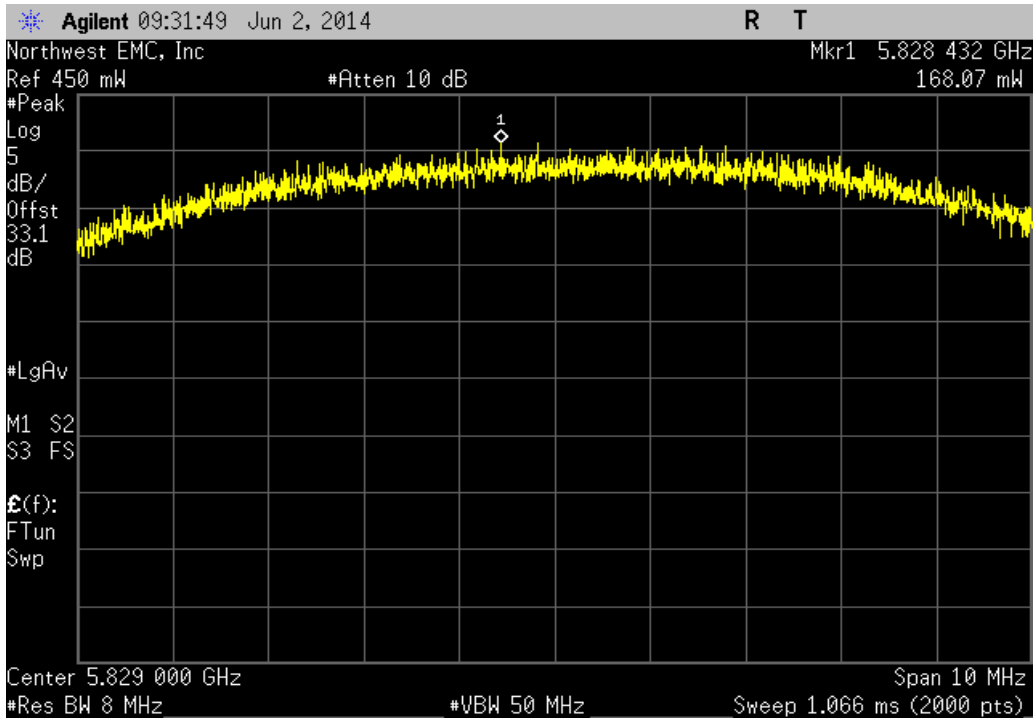
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5784 MHz

Value	Limit	Result
178.32 mW	< 1 W	Pass



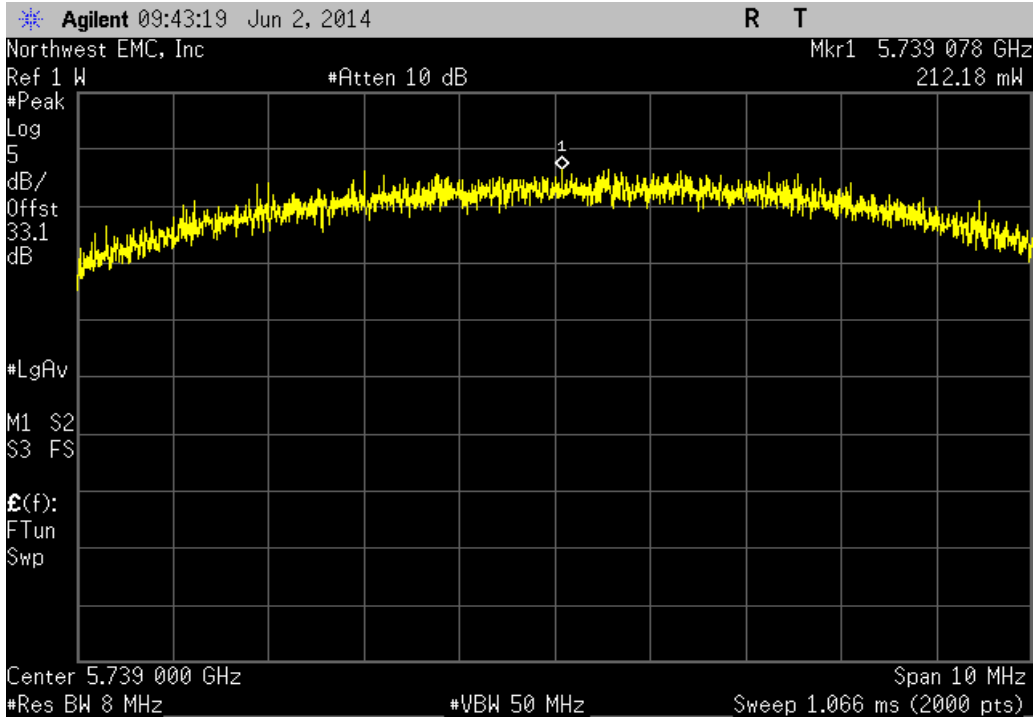
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
168.074 mW	< 1 W	Pass



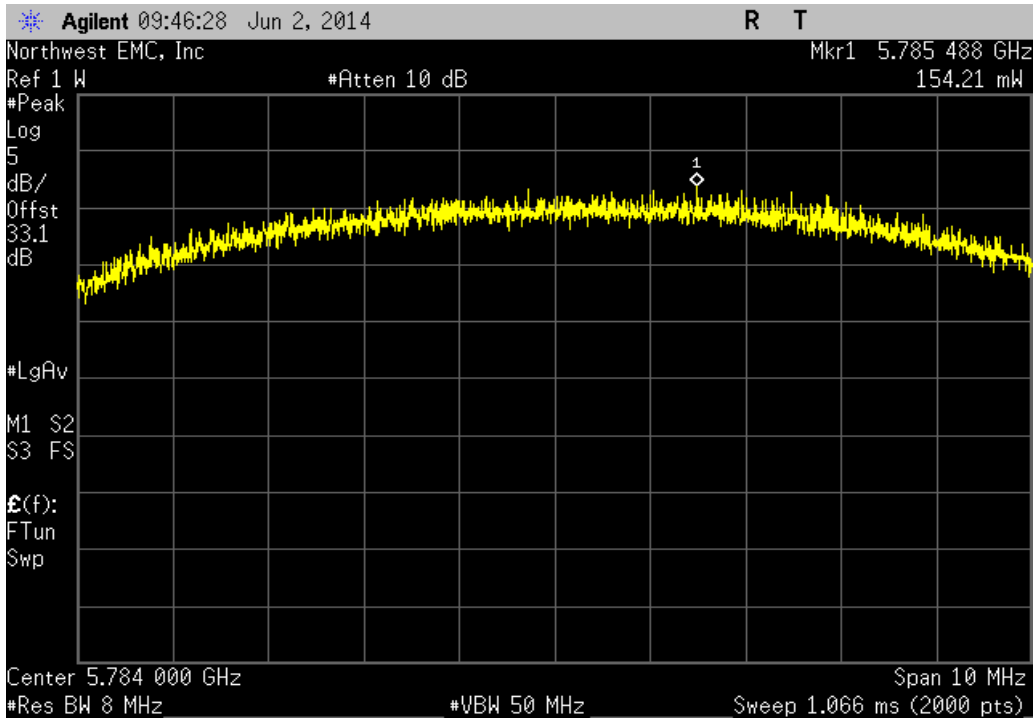
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
212.178 mW	< 1 W	Pass



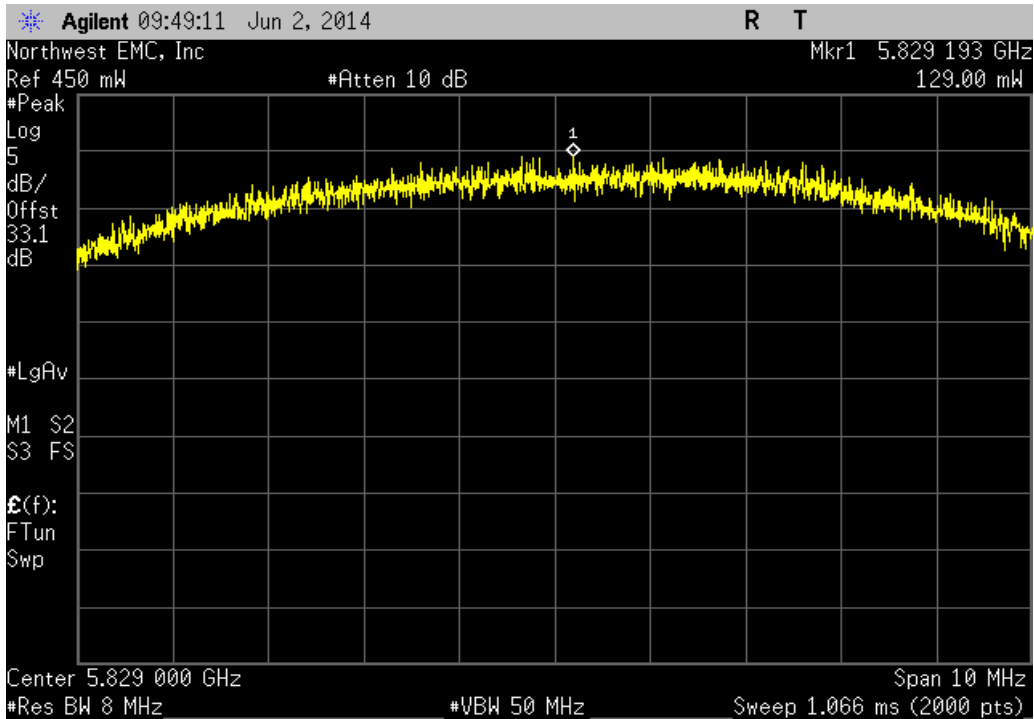
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

Value	Limit	Result
154.206 mW	< 1 W	Pass



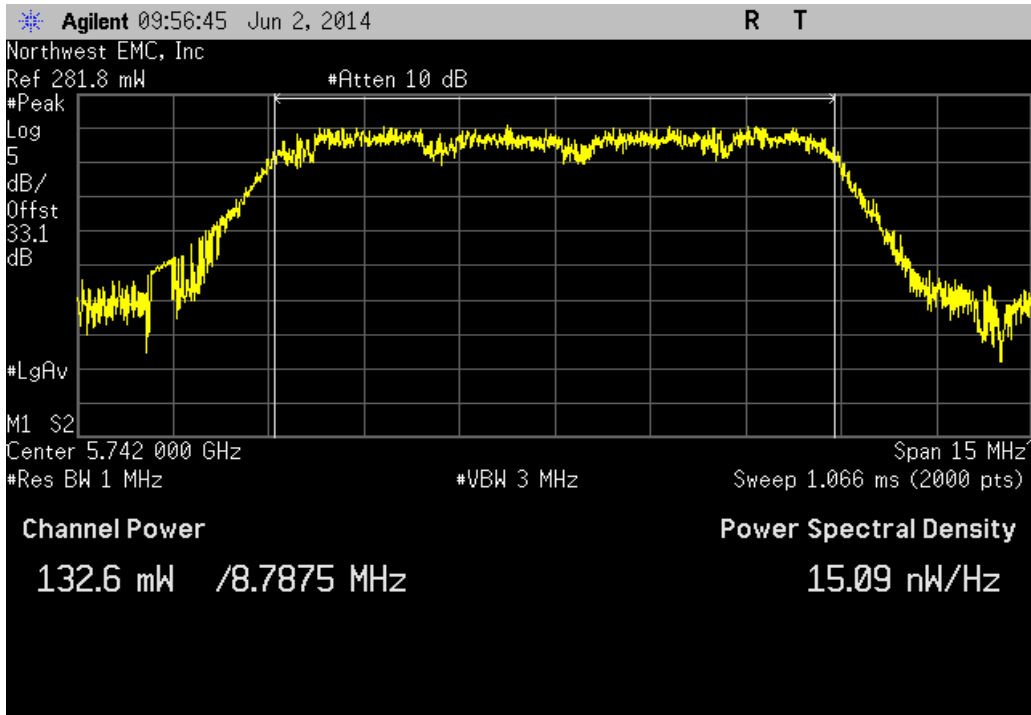
Chain 1, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

Value	Limit	Result
129.003 mW	< 1 W	Pass



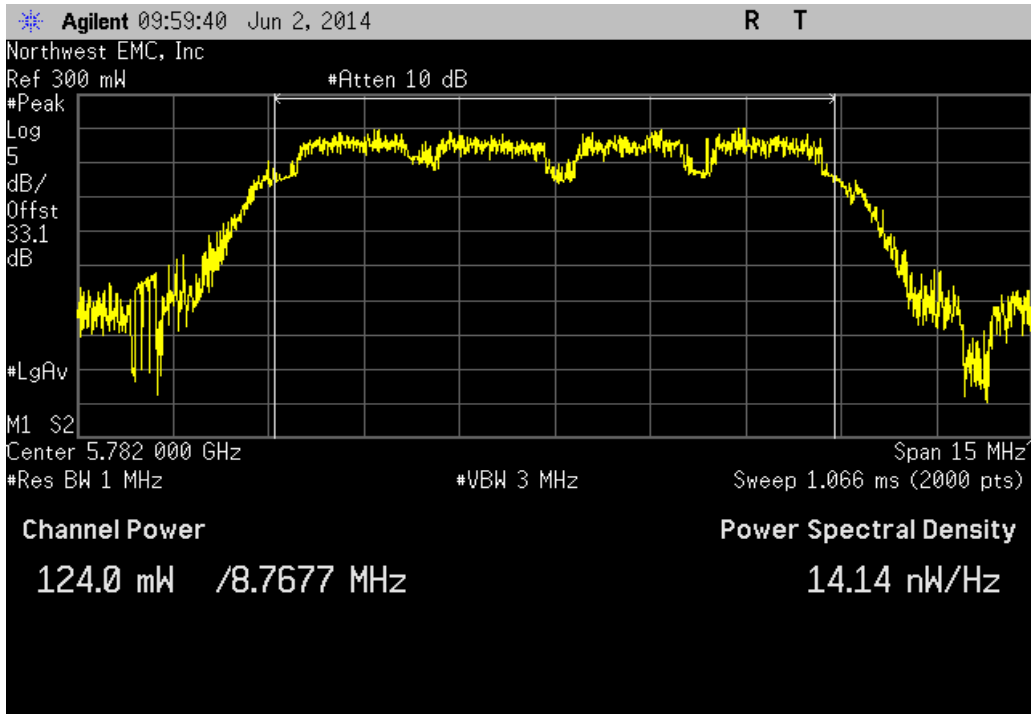
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

	Value	Limit	Result
	132.638 mW	< 1 W	Pass



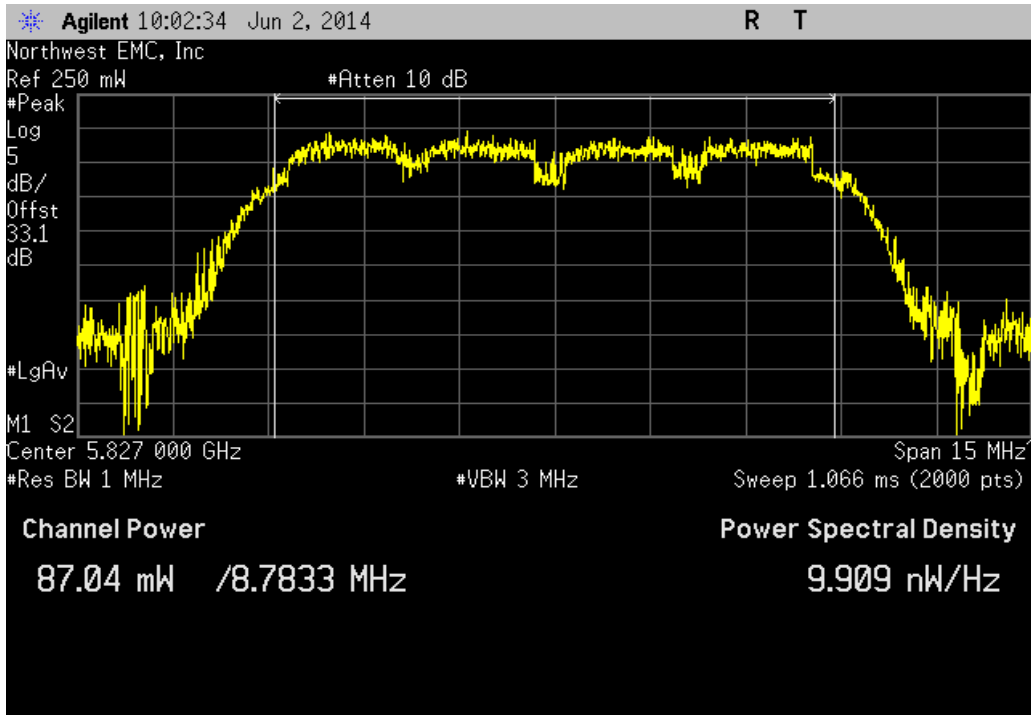
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5782 MHz

	Value	Limit	Result
	124.011 mW	< 1 W	Pass



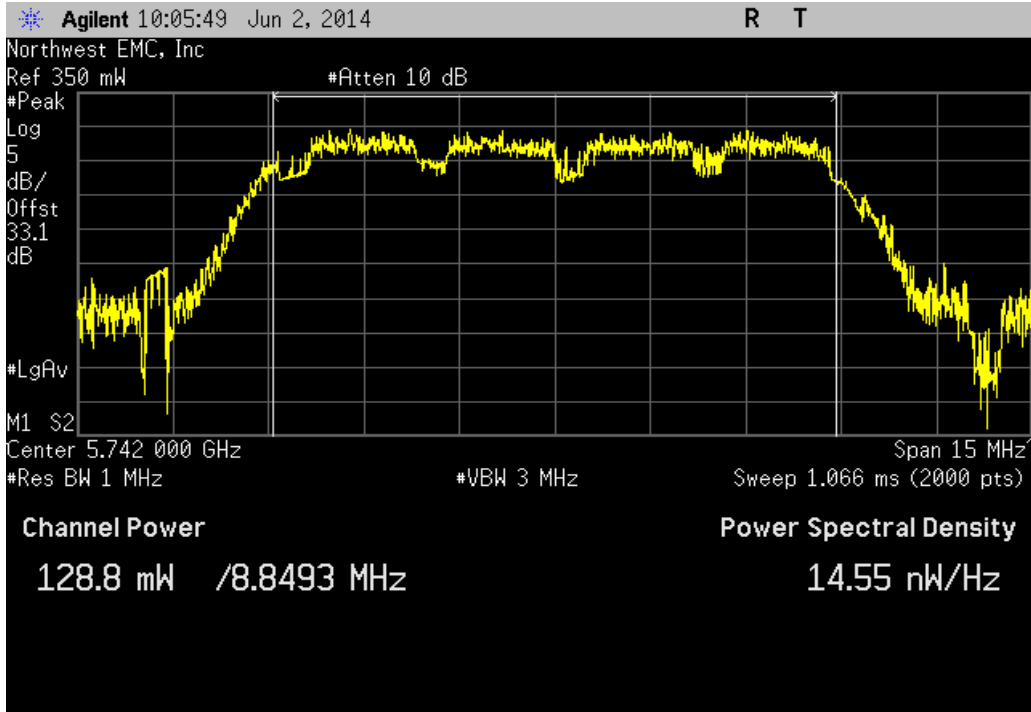
Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5827 MHz

	Value	Limit	Result
	87.035 mW	< 1 W	Pass

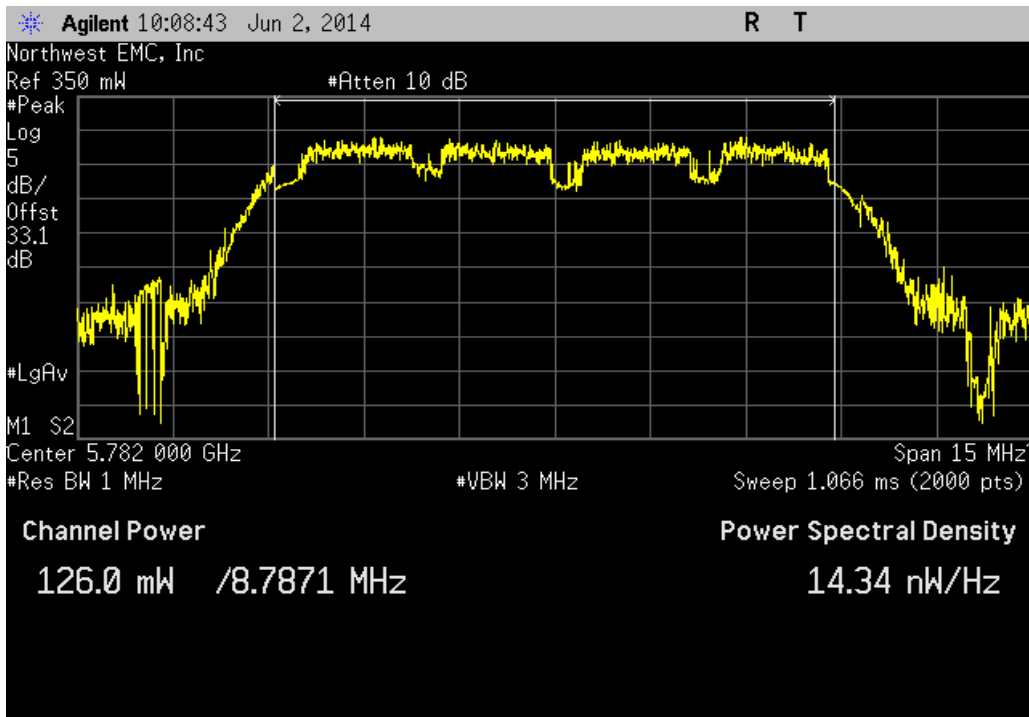


Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

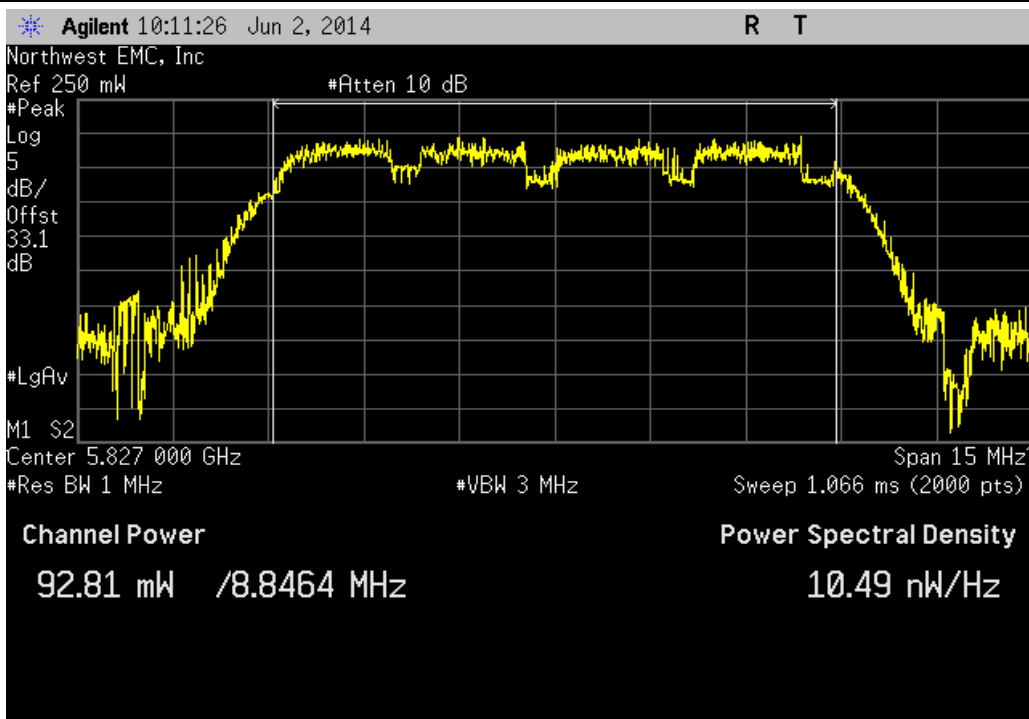
	Value	Limit	Result
	128.789 mW	< 1 W	Pass



Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz			
	Value	Limit	Result
	126.037 mW	< 1 W	Pass

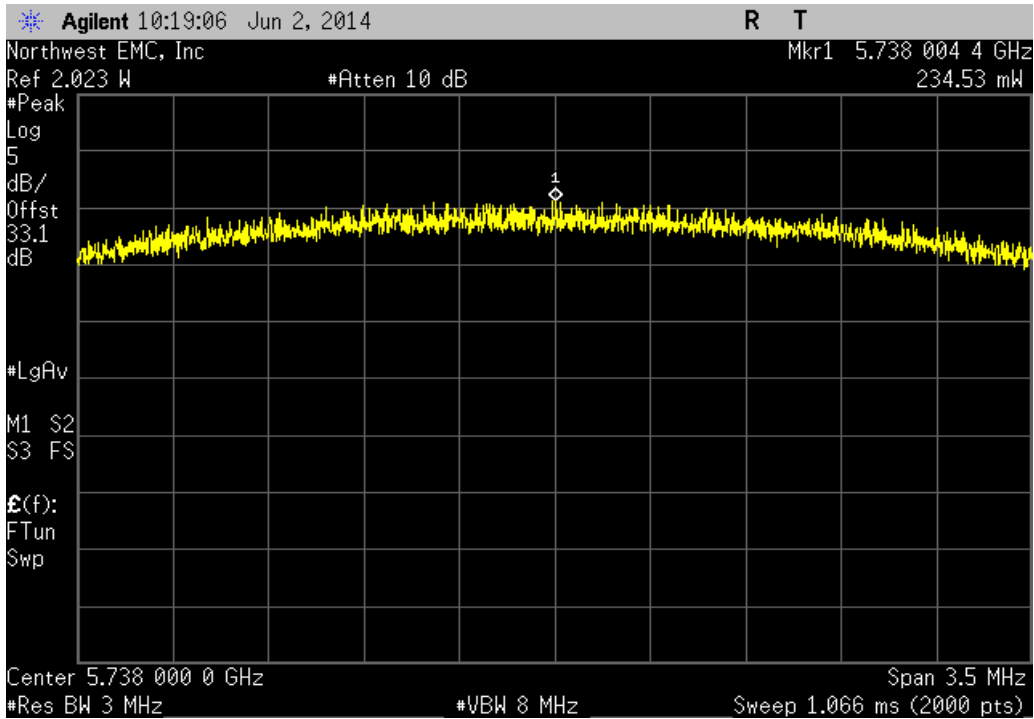


Chain 1, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz			
	Value	Limit	Result
	92.808 mW	< 1 W	Pass



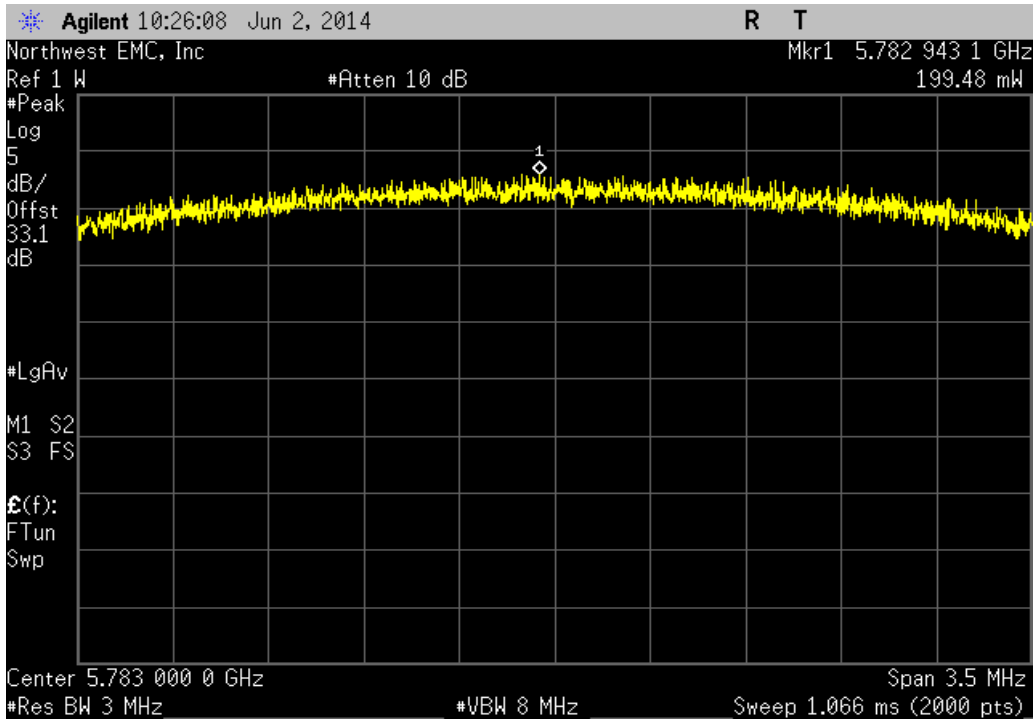
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5738 MHz

Value	Limit	Result
234.531 mW	< 1 W	Pass

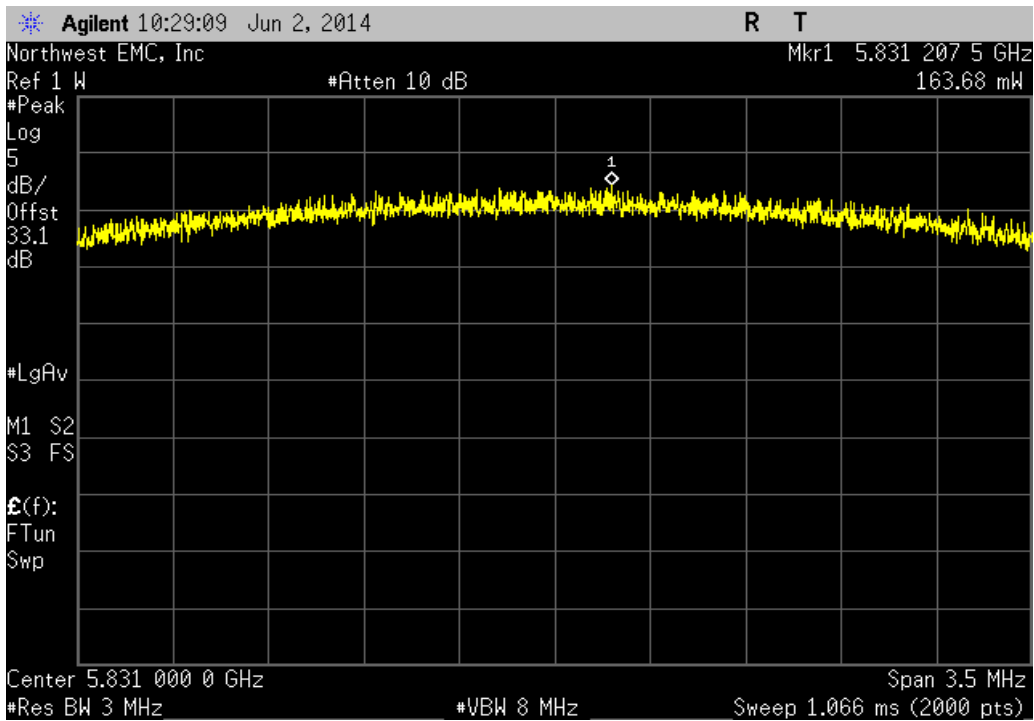


Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5783 MHz

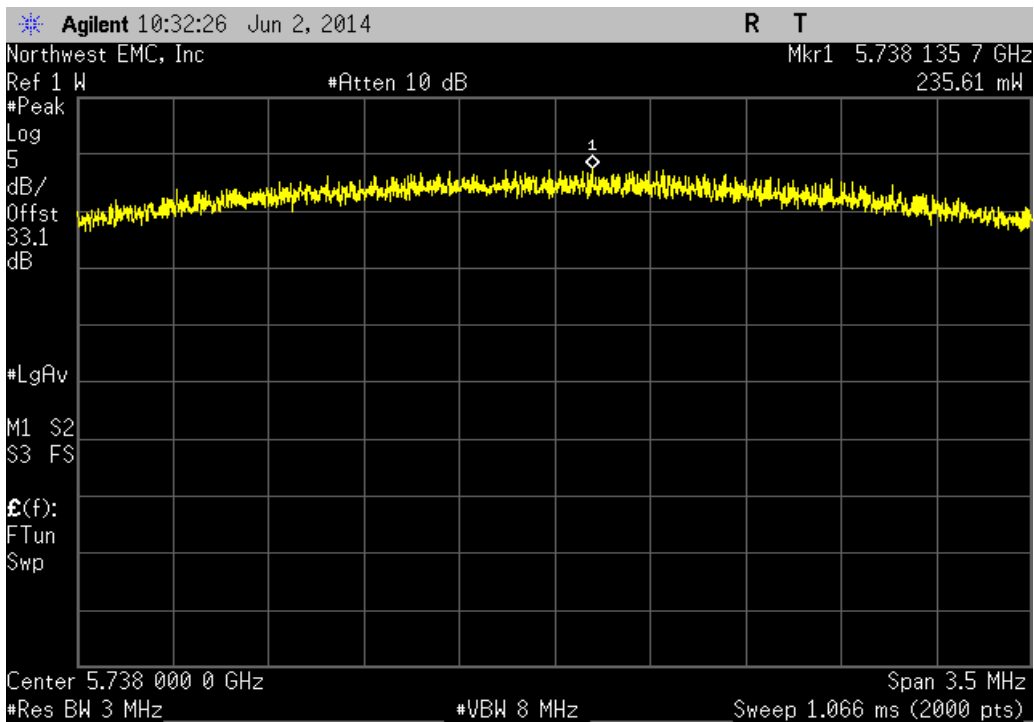
Value	Limit	Result
199.48 mW	< 1 W	Pass



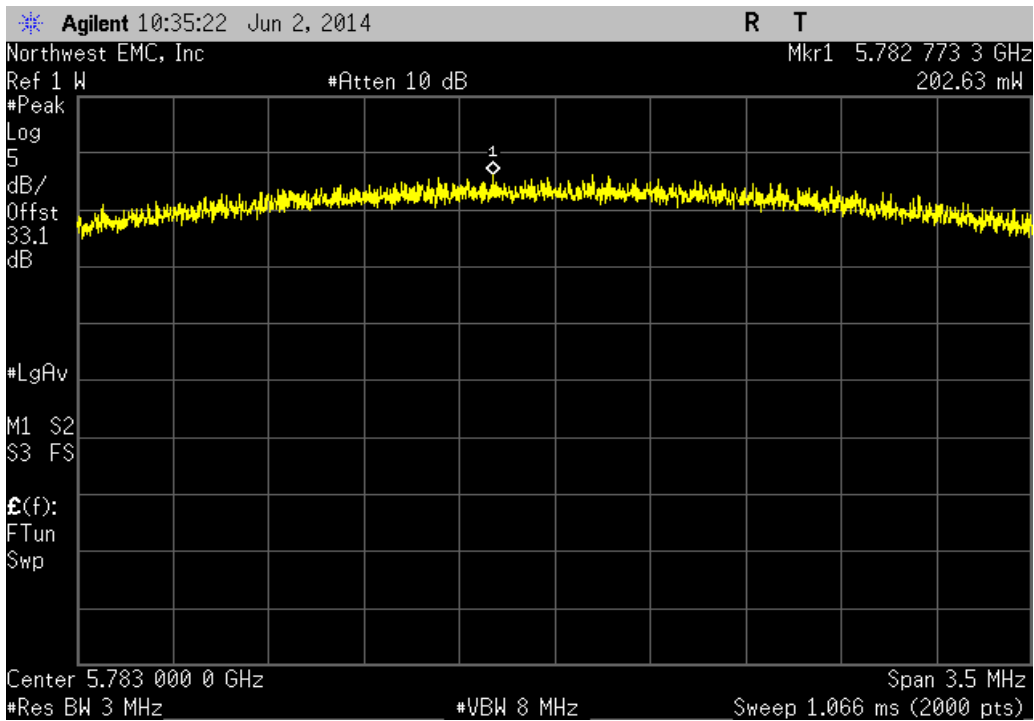
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5831 MHz		
Value	Limit	Result
163.682 mW	< 1 W	Pass



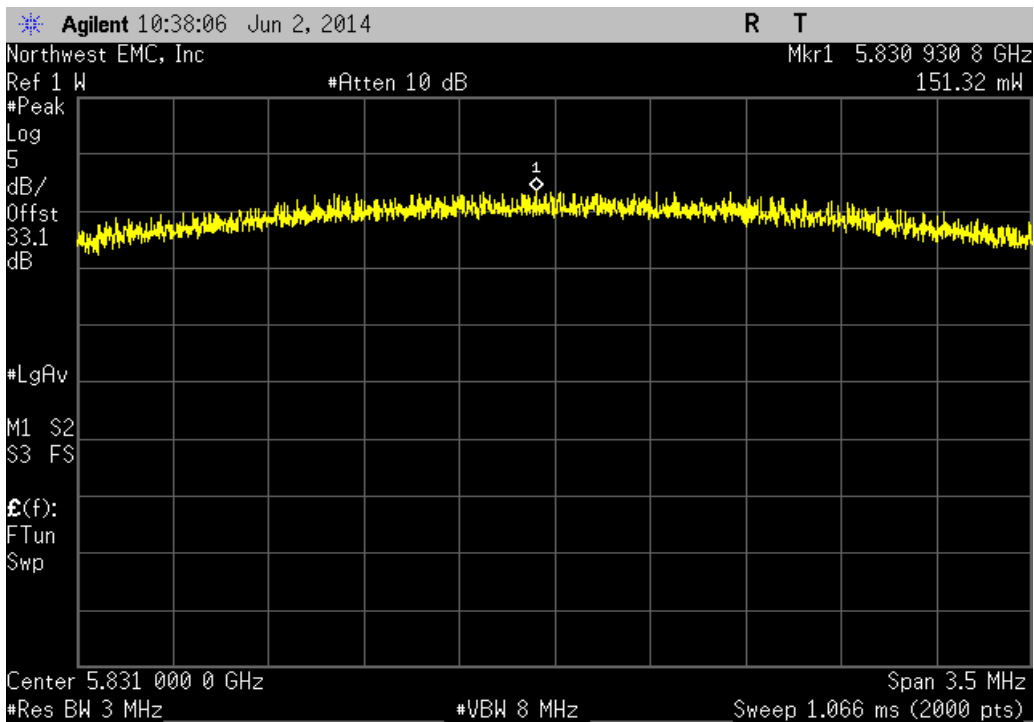
Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5738 MHz		
Value	Limit	Result
235.613 mW	< 1 W	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5783 MHz		
Value	Limit	Result
202.628 mW	< 1 W	Pass

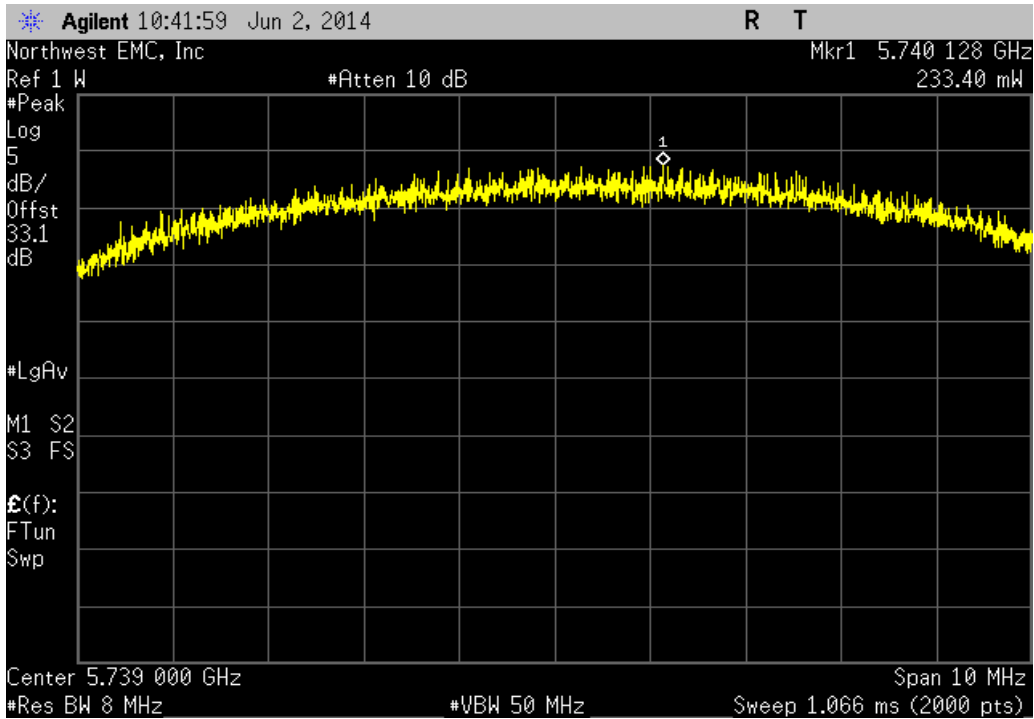


Chain 2, 5725 MHz - 5850 MHz Band, 2.5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5831 MHz		
Value	Limit	Result
151.321 mW	< 1 W	Pass



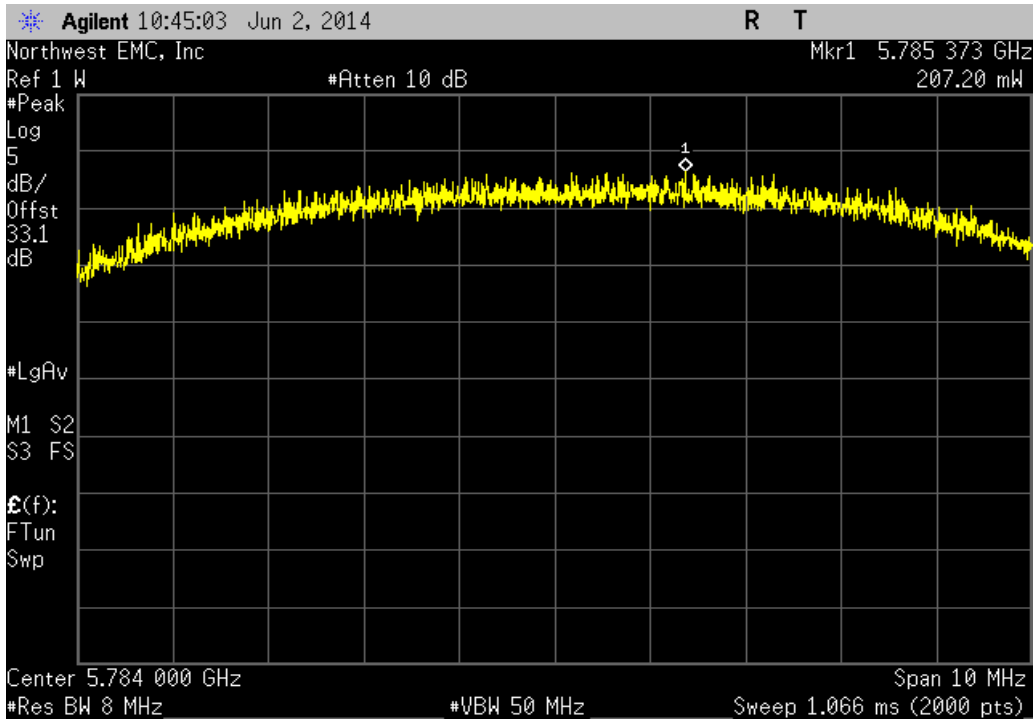
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5739 MHz

	Value	Limit	Result
	233.4 mW	< 1 W	Pass



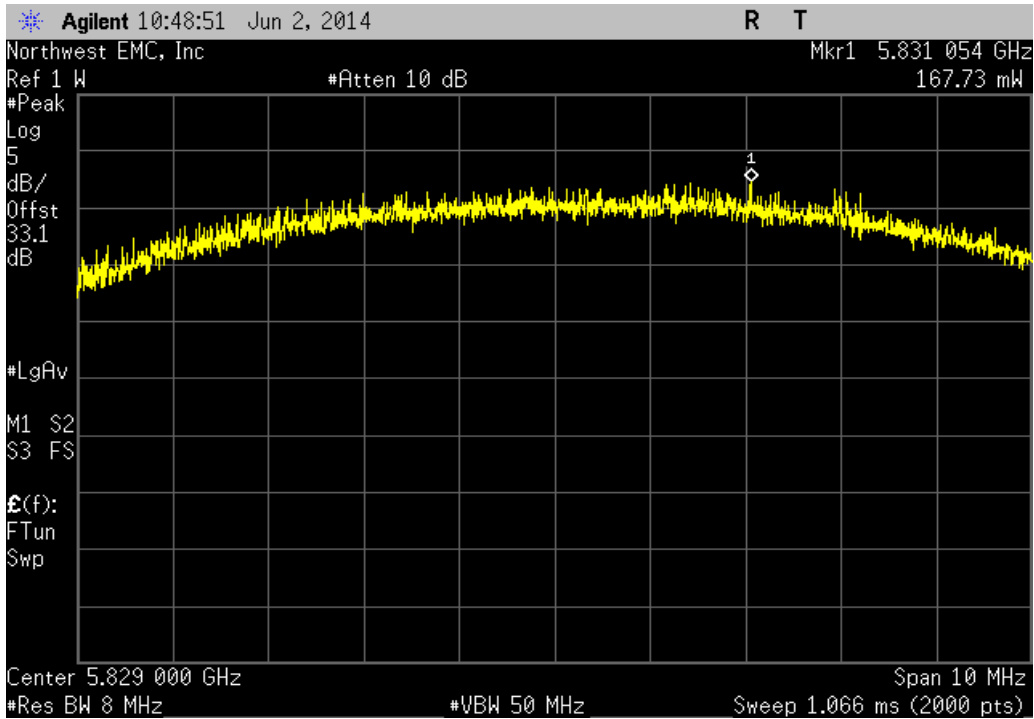
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5784 MHz

	Value	Limit	Result
	207.205 mW	< 1 W	Pass



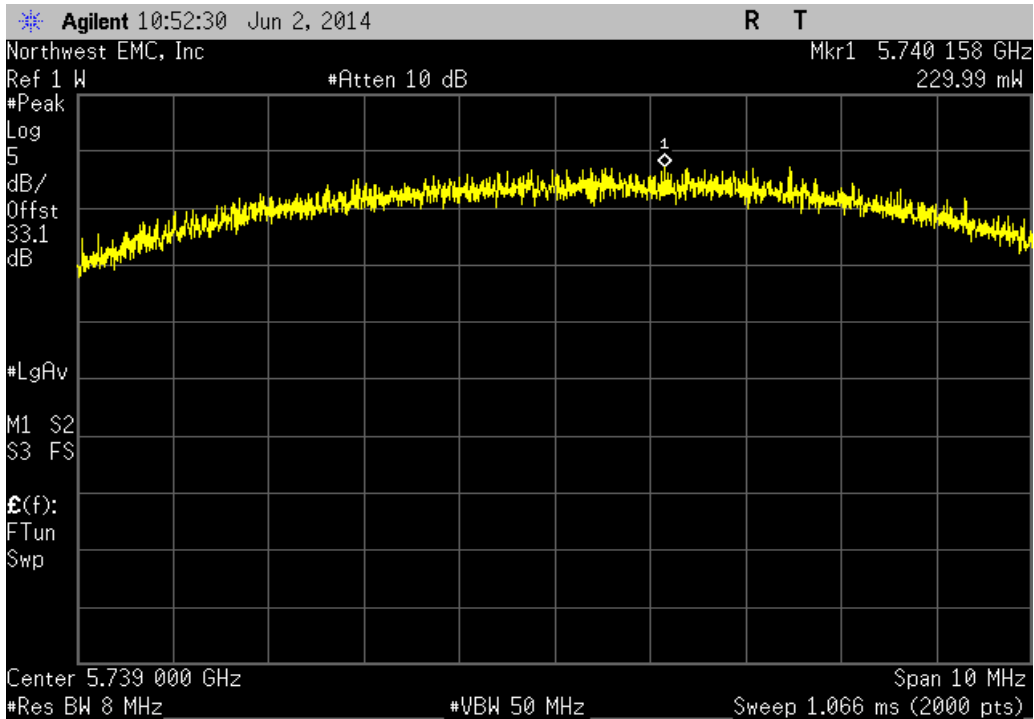
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5829 MHz

Value	Limit	Result
167.726 mW	< 1 W	Pass



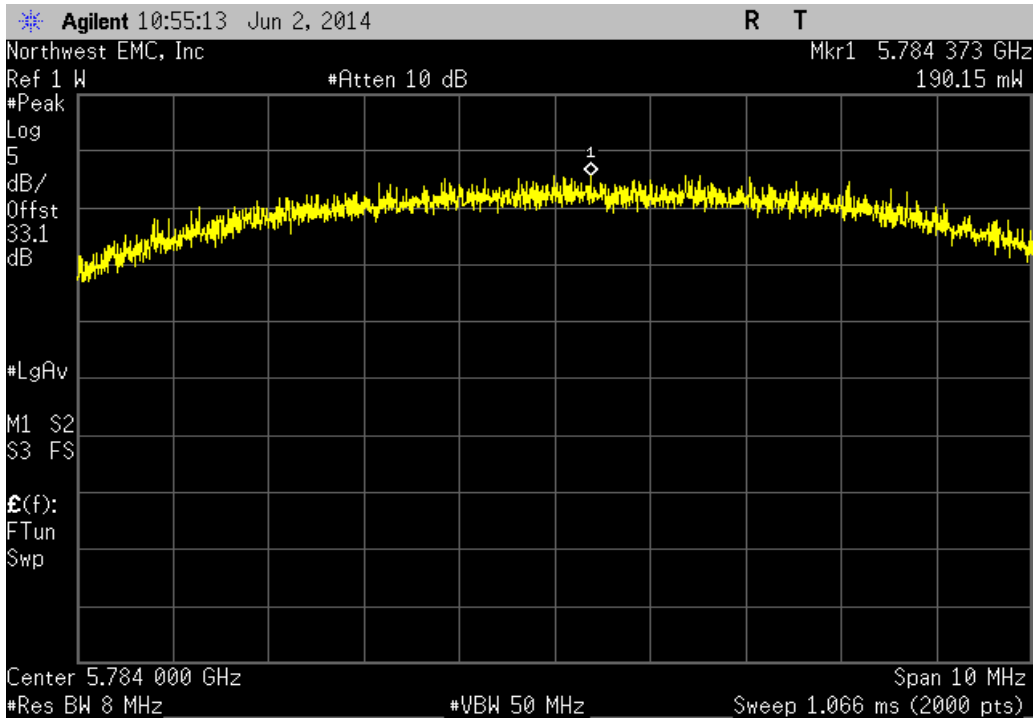
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5739 MHz

Value	Limit	Result
229.985 mW	< 1 W	Pass



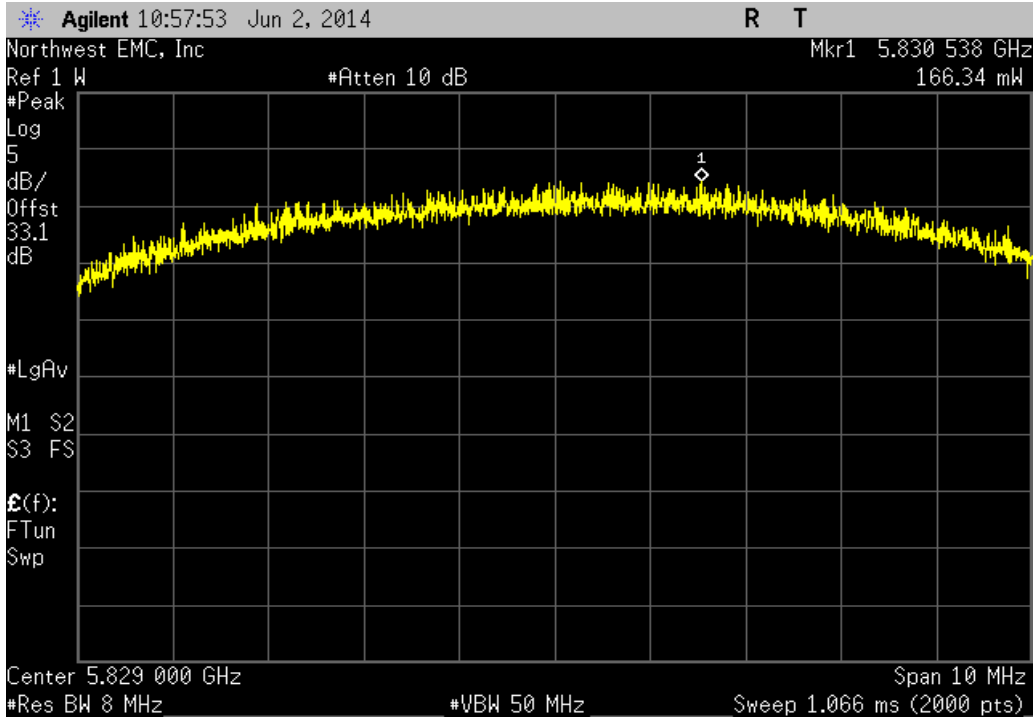
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5784 MHz

Value	Limit	Result
190.152 mW	< 1 W	Pass



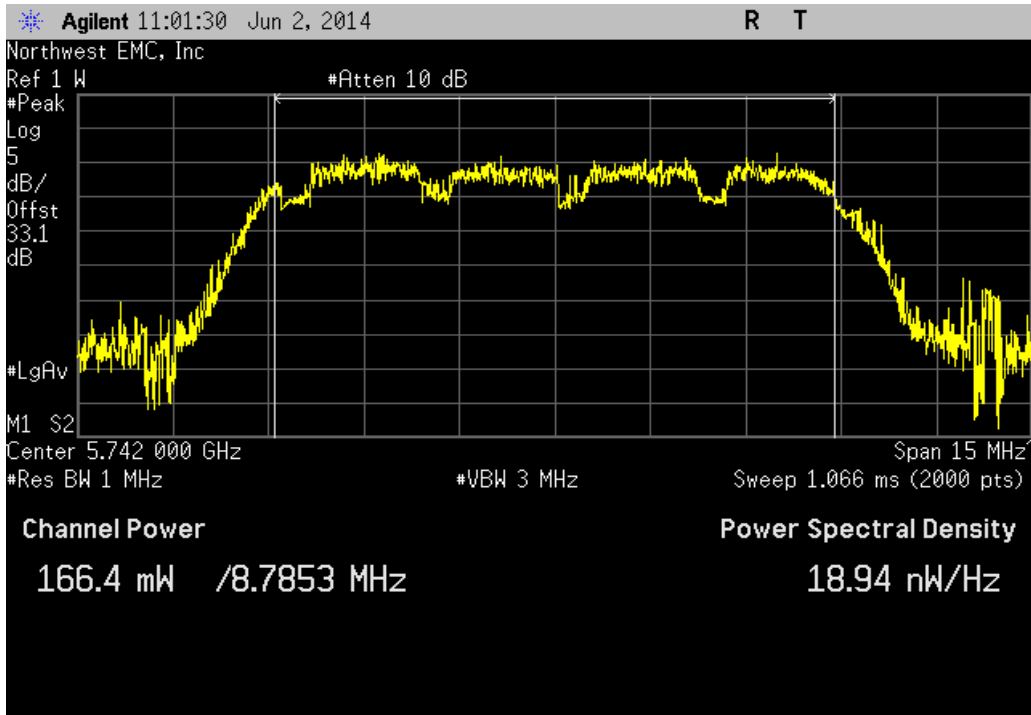
Chain 2, 5725 MHz - 5850 MHz Band, 5 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5829 MHz

Value	Limit	Result
166.341 mW	< 1 W	Pass



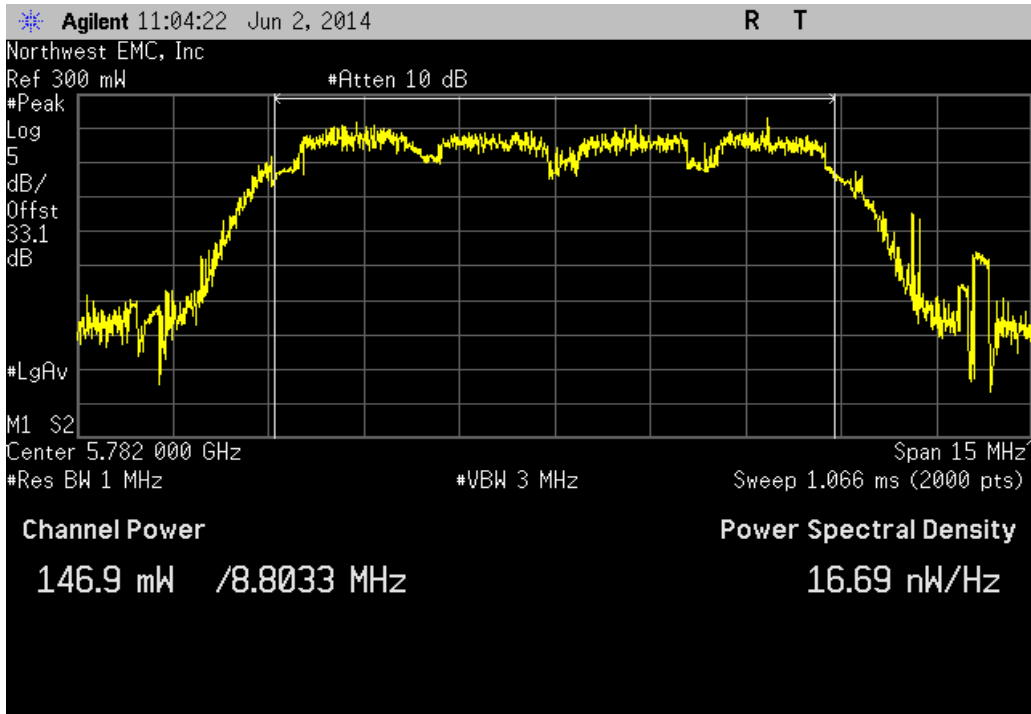
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 5742 MHz

	Value	Limit	Result
	166.353 mW	< 1 W	Pass



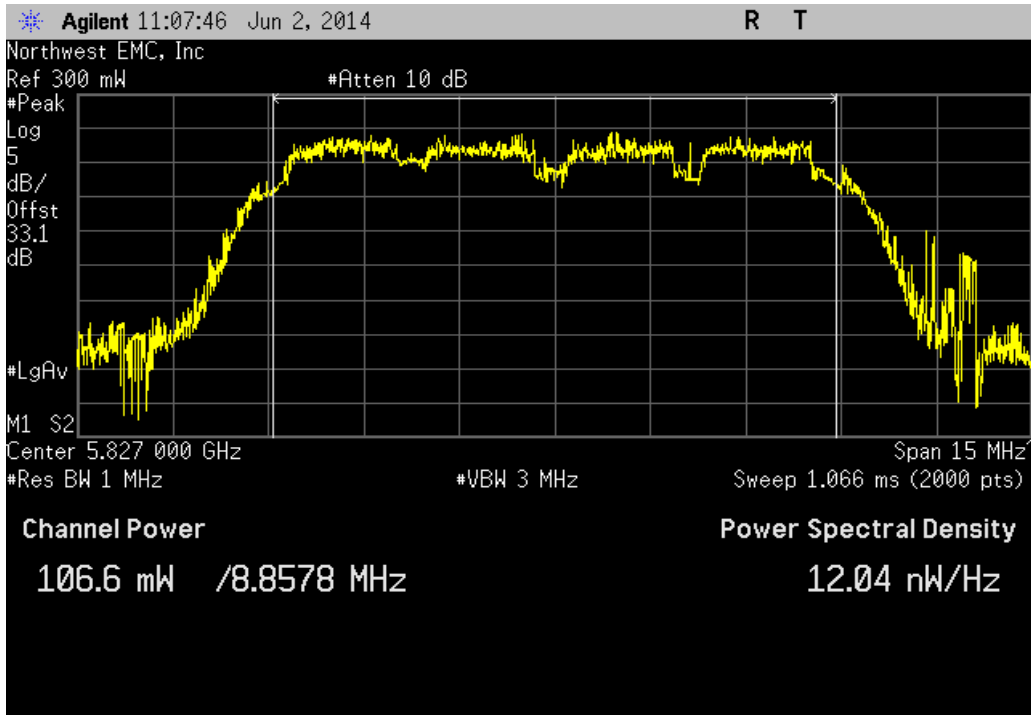
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 5782 MHz

	Value	Limit	Result
	146.933 mW	< 1 W	Pass



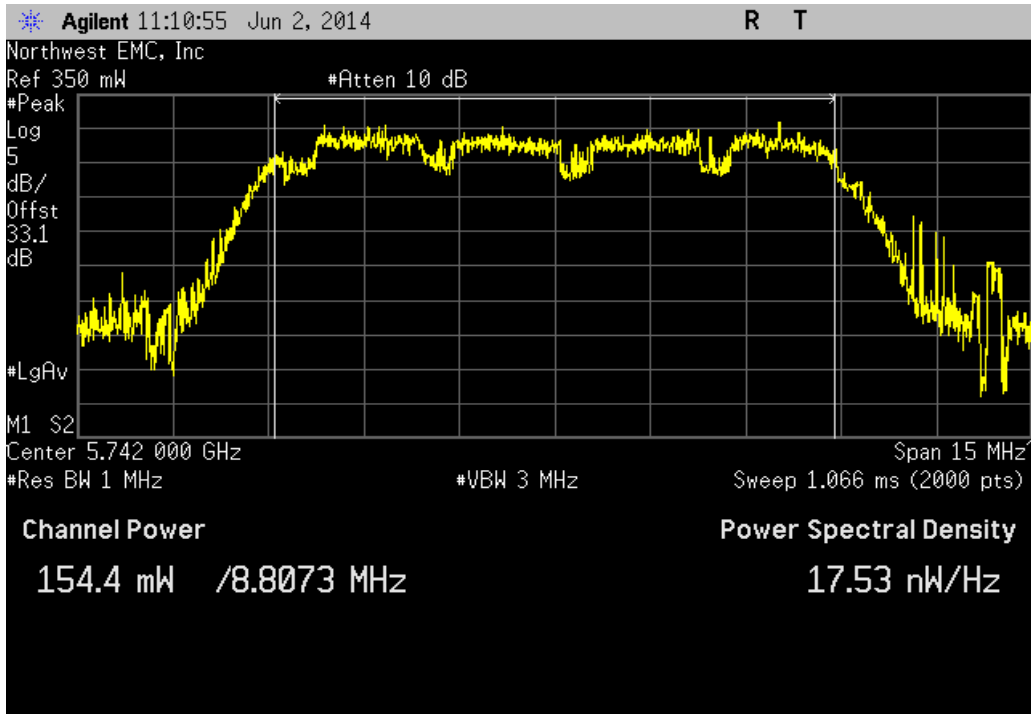
Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 5827 MHz

Value	Limit	Result
106.633 mW	< 1 W	Pass

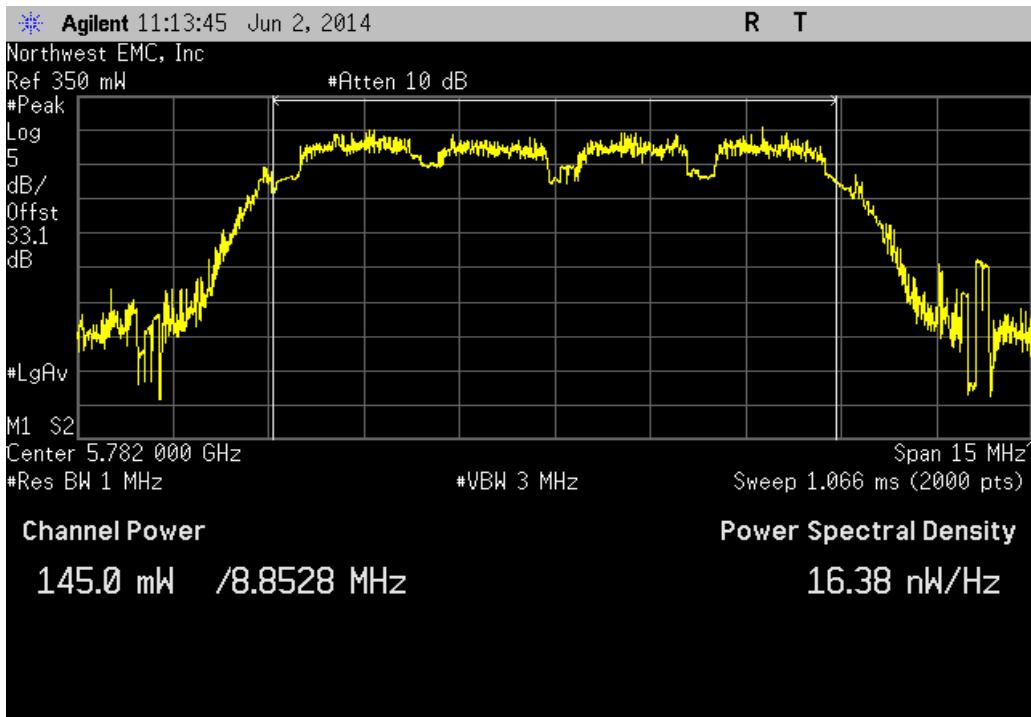


Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 5742 MHz

Value	Limit	Result
154.425 mW	< 1 W	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 5782 MHz			
	Value	Limit	Result
	144.99 mW	< 1 W	Pass



Chain 2, 5725 MHz - 5850 MHz Band, 10 MHz, 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 5827 MHz			
	Value	Limit	Result
	108.255 mW	< 1 W	Pass

