

Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

7.6 Spurious emissions at RF antenna connector test

7.6.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.6.1.

Table 7.6.1 Spurious emission limits

Frequency, MHz	Conducted power of spurious, dBm/MHz
0.009- below 3530.0	-40.0
3720.0 – 10th harmonic*	-40.0

7.6.2 Test procedure

- **7.6.2.1** The EUT was set up as shown in Figure 7.6.1, energized and its proper operation was checked.
- **7.6.2.2** The EUT was adjusted to produce maximum available for end user RF output power.
- 7.6.2.3 The spurious emission was measured with spectrum analyzer as provided in Table 7.6.2 and associated plots.

Figure 7.6.1 Spurious emission test setup





Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Table 7.6.2 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 3550 - 3700 MHz INVESTIGATED FREQUENCY RANGE: 0.009 - 37000 MHz

DETECTOR USED: Peak

VIDEO BANDWIDTH: ≥ Resolution bandwidth

MODULATION: QPSK
TRANSMITTER OUTPUT POWER SETTINGS: Maximum
NUMBER ANTENNA PORTS: N = 2

<u>IUMBER AI</u>	NTENNA F	PORTS:		N = 2					
F		Peak pov	wer (VBW=3 M	Hz)		Average po	wer (RMS)		
Frequency, GHz	Measured dBm	, Total, dBm**	Limit, dBm	Margin, dB*	Measured, dBm	Total, dBm**	Limit, dBm	Margin, dB*	Verdict
Channel ba	andwidth 10) MHz							
Low carrie	r frequency	3555 MHz							
36.718	-46.47	-43.47	-40.00	-3.47	-46.47	-43.47	-40.00	-3.47	Pass
Mid carrier	frequency	3625 MHz							
36.835	-47.41	-44.41	-40.00	-4.41	-47.41	-44.41	-40.00	-4.41	Pass
High carrie	r frequenc	<u>y</u> 3695 MHz							_
36.706	-47.01	-44.01	-40.00	-4.01	-47.01	-44.01	-40.00	-4.01	Pass
Channel ba	andwidth 20) MHz							
Low carrie	r frequency	3560 MHz							
36.899	-47.11	-44.11	-40.00	-4.11	-47.11	-44.11	-40.00	-4.11	Pass
Mid carrier	frequency	3625 MHz							
36.426	-47.16	-44.16	-40.00	-4.16	-47.16	-44.16	-40.00	-4.16	Pass
High carrie	r frequency	y 3690 MHz							
36.720	-46.87	-43.87	-40.00	-3.87	-46.87	-43.87	-40.00	-3.87	Pass
Channel ba	andwidth 40) MHz							
Low carrie	r frequency	3570 MHz							
36.654	-46.33	-43.66	-40.00	-3.66	-46.33	-43.66	-40.00	-3.66	Pass
Mid carrier	frequency	3625 MHz	·	<u> </u>	·	·	<u> </u>		
36.656	-47.28	-44.28	-40.00	-4.28	-47.28	-44.28	-40.00	-4.28	Pass
High carrie	r frequency	y 3680 MHz							
36.517	-47.09	-44.09	-40.00	-4.09	-47.09	-44.09	-40.00	-4.09	Pass

^{*-} Margin = Total spurious emission - specification limit.

Reference numbers of test equipment used

HL 1294	HL 1295	HL 3287	HL 3301	HL 3355	HL 4355	HL 4366	HL 5232
HL 5233	HL 5286	HL 6143					

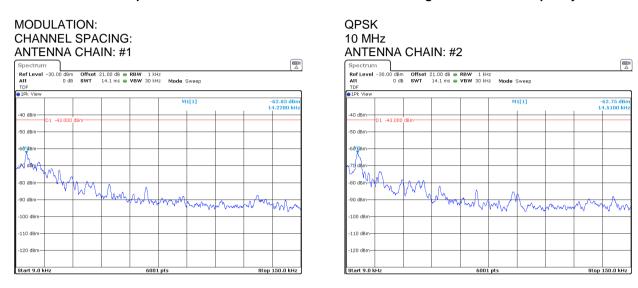
Full description is given in Appendix A.

^{** -} Total emission = Maximum SA reading per chain (Chains #1&2) + 10*log(N)

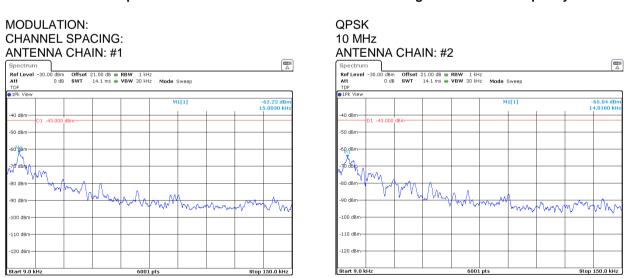


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.1 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency



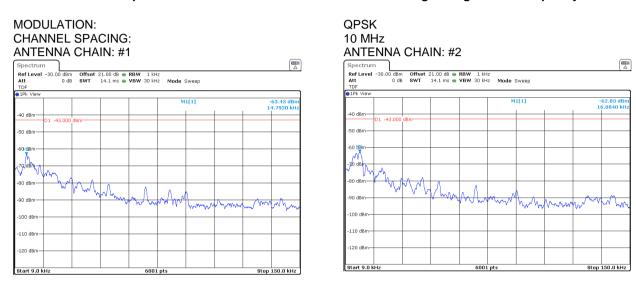
Plot 7.6.2 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency



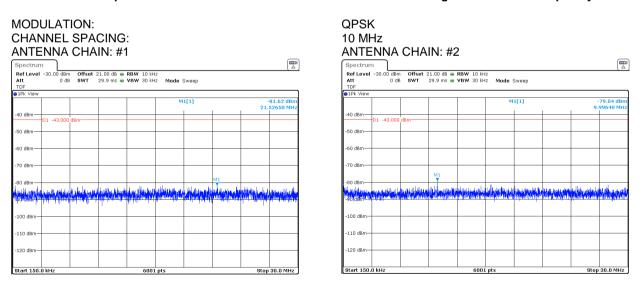


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet: DACC		
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.3 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency



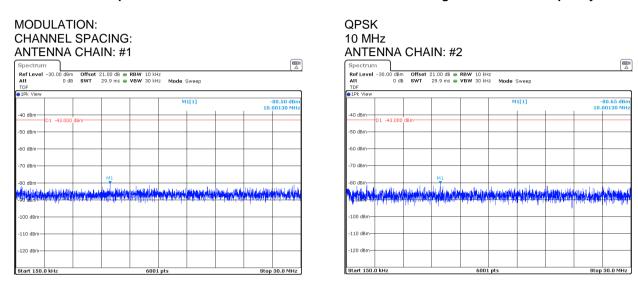
Plot 7.6.4 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency



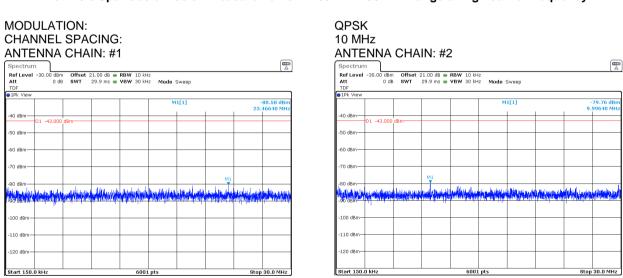


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet. DACC		
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.5 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency



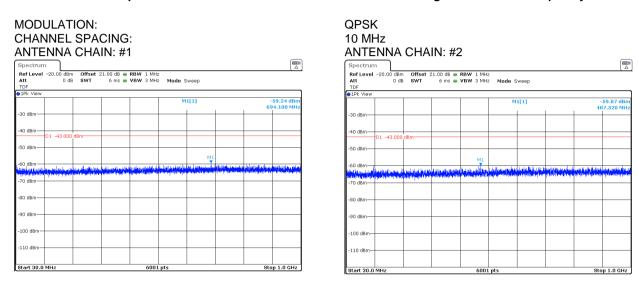
Plot 7.6.6 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency



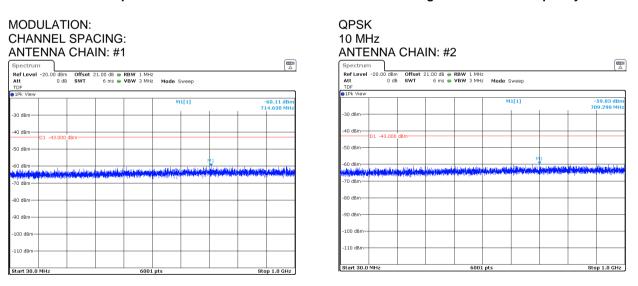


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.7 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency



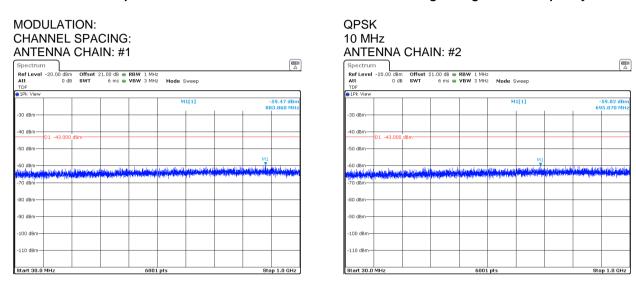
Plot 7.6.8 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency



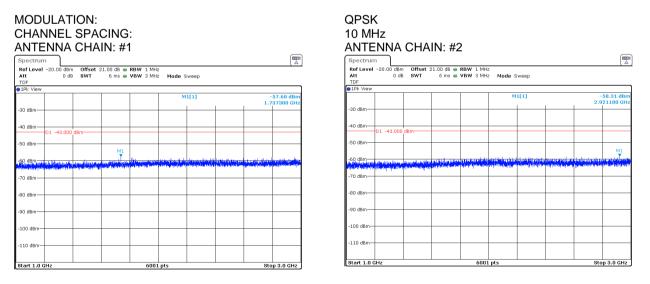


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.9 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency



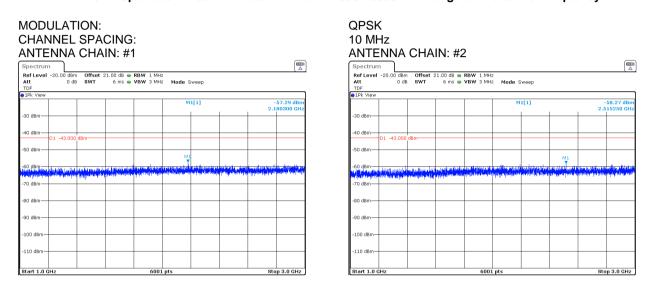
Plot 7.6.10 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency



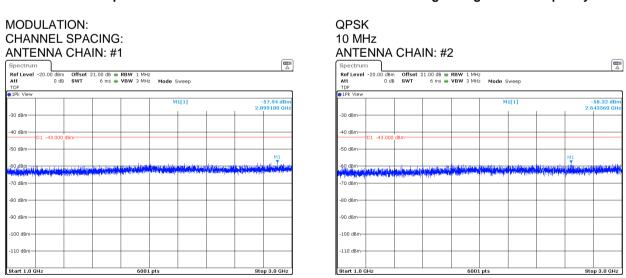


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.11 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency



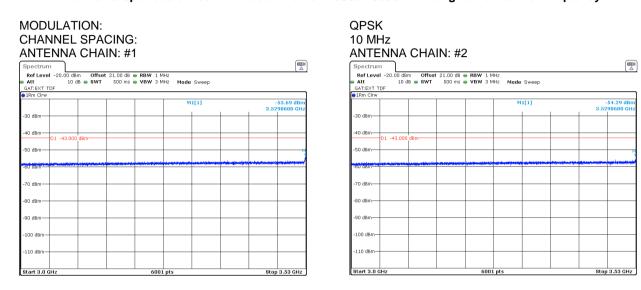
Plot 7.6.12 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency



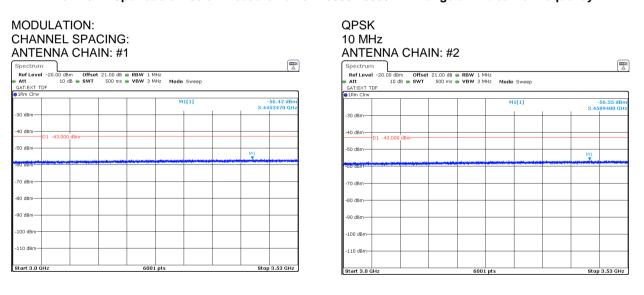


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.13 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency



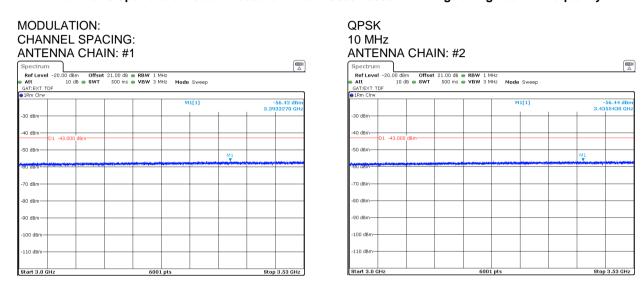
Plot 7.6.14 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency



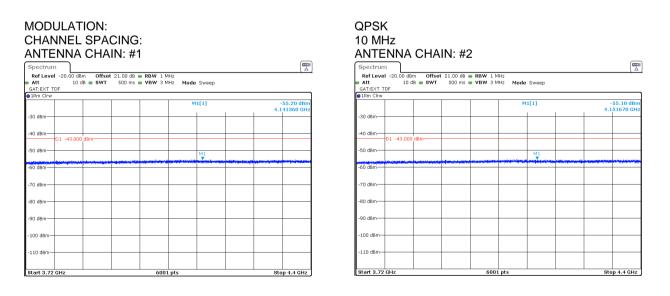


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.15 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency



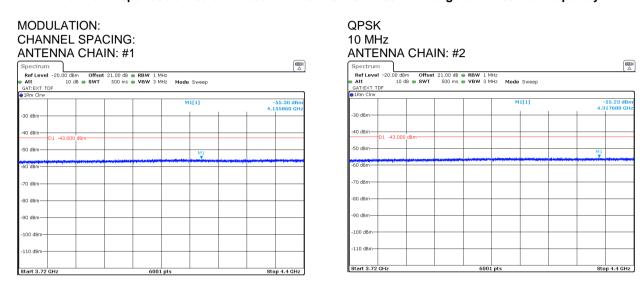
Plot 7.6.16 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency



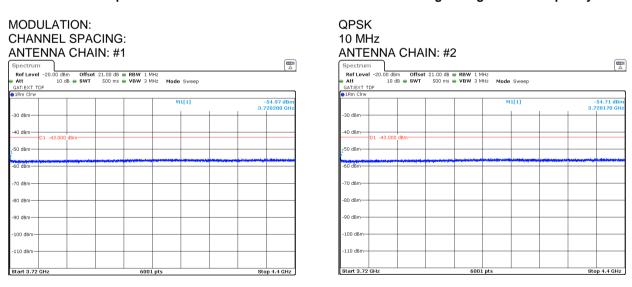


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.17 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency



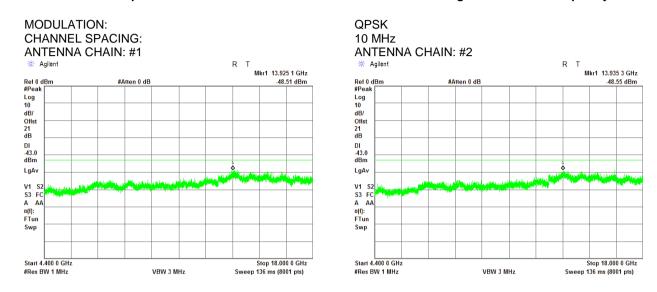
Plot 7.6.18 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency



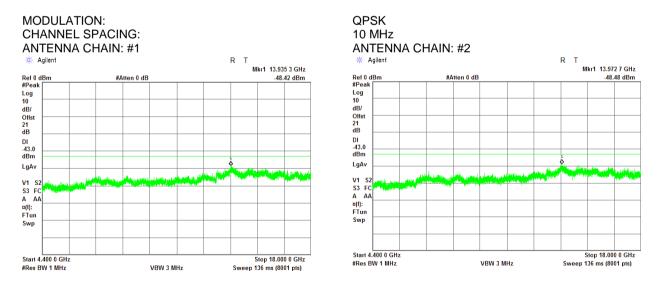


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Variation DACC	
Date(s):	09-Feb-22	Verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.19 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency



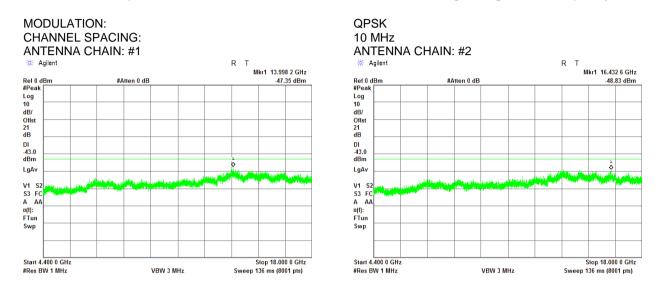
Plot 7.6.20 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency



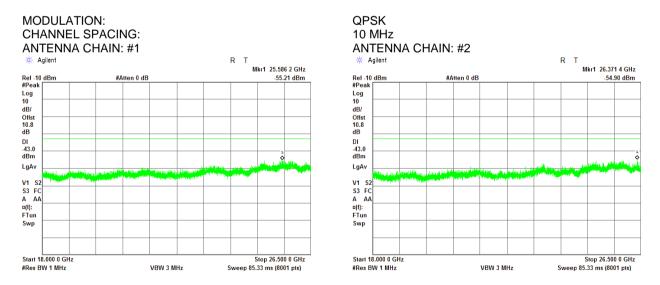


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict.	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.21 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency



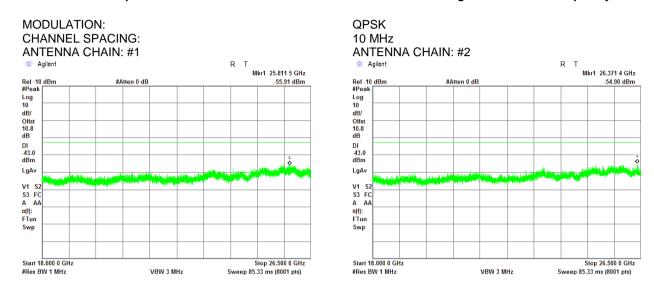
Plot 7.6.22 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency



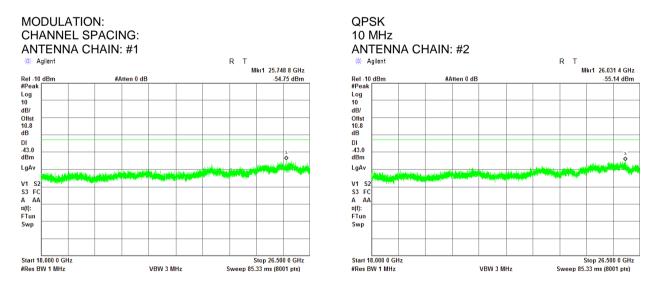


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Varidieti DACC	
Date(s):	09-Feb-22	Verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.23 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency



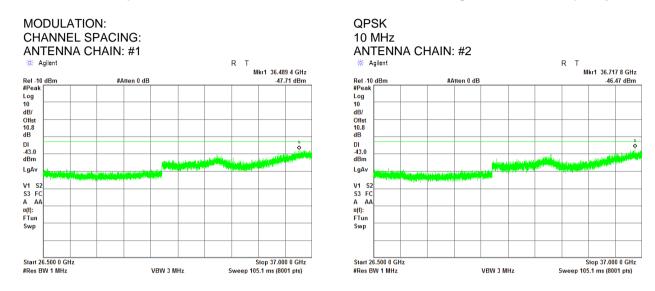
Plot 7.6.24 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency



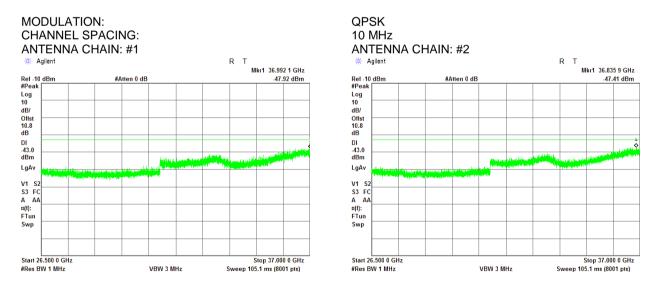


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.25 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency



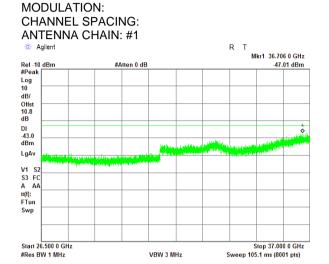
Plot 7.6.26 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency

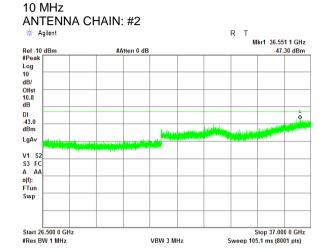




Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Variation DACC	
Date(s):	09-Feb-22	Verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.27 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency

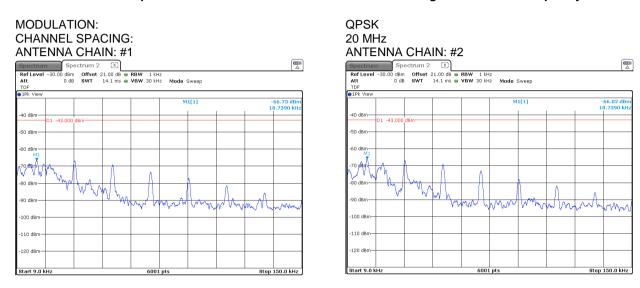




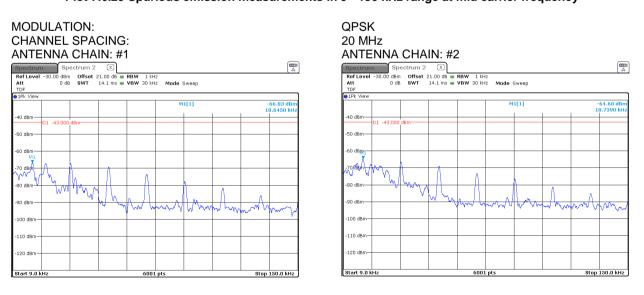


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.28 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency



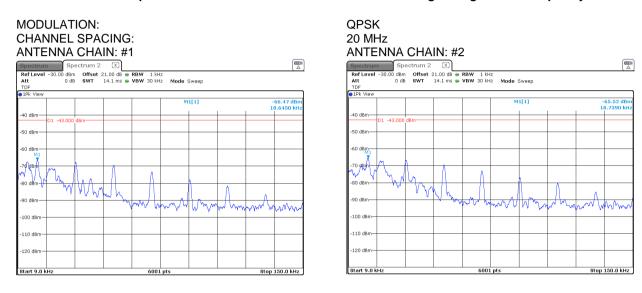
Plot 7.6.29 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency



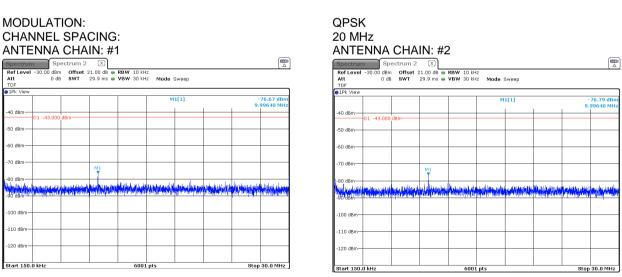


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.30 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency



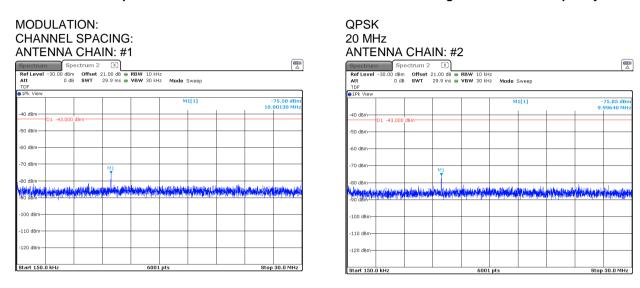
Plot 7.6.31 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency



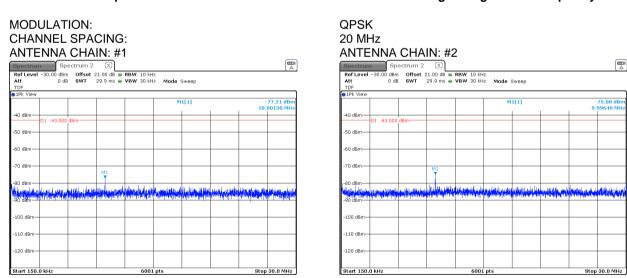


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.32 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency



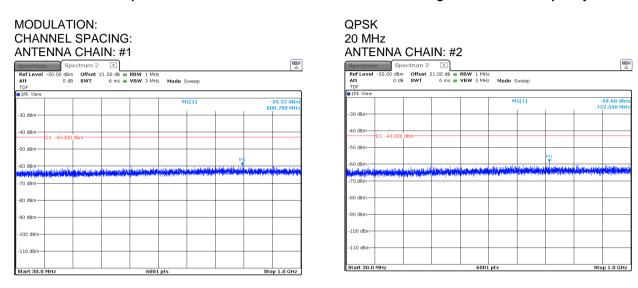
Plot 7.6.33 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency



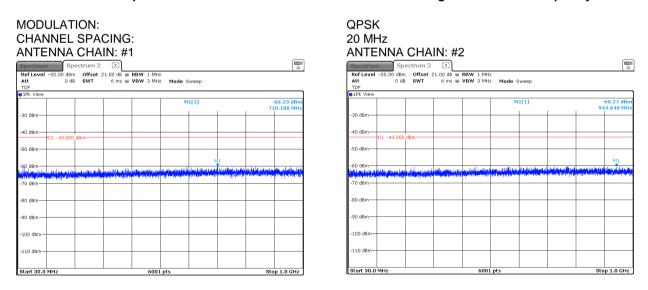


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.34 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency



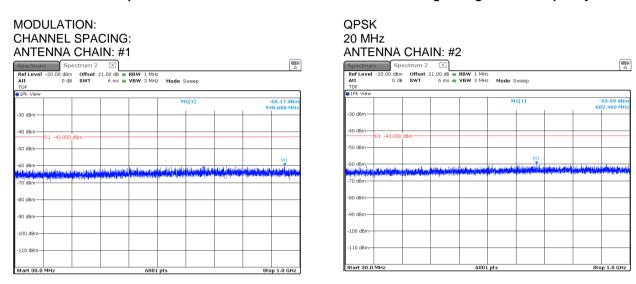
Plot 7.6.35 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency



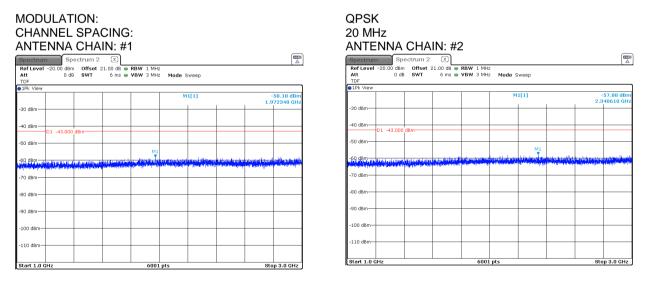


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Varidieti DACC	
Date(s):	09-Feb-22	Verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.36 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency



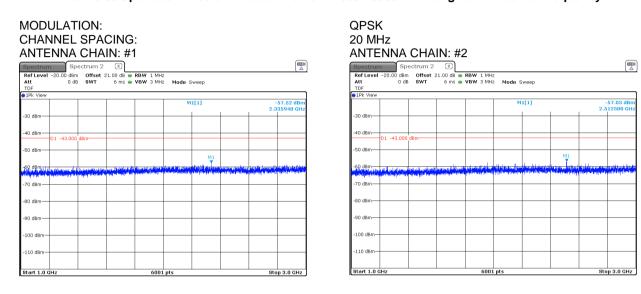
Plot 7.6.37 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency



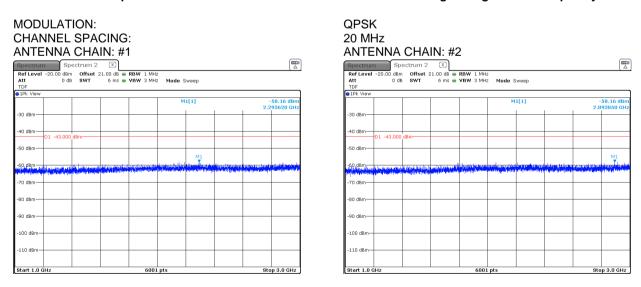


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet	DACC	
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.38 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency



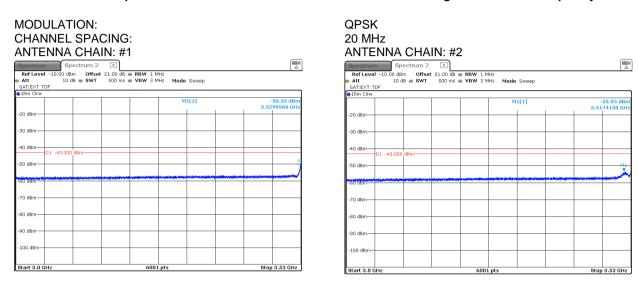
Plot 7.6.39 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency



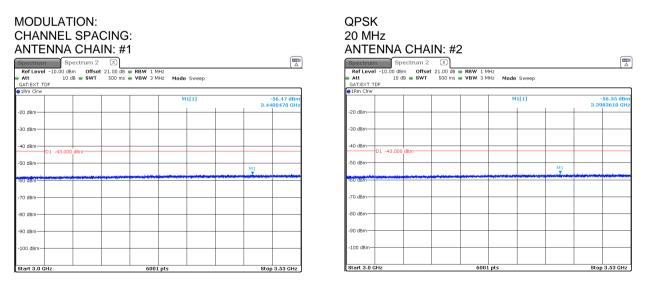


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	09-Feb-22	Verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.40 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency



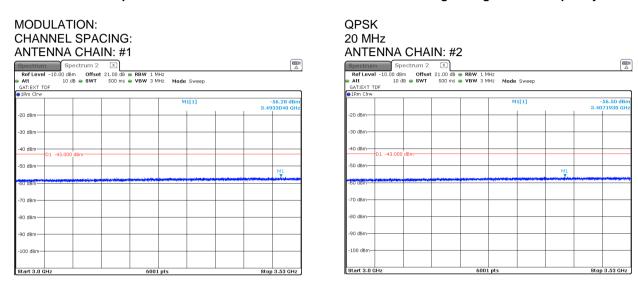
Plot 7.6.41 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency



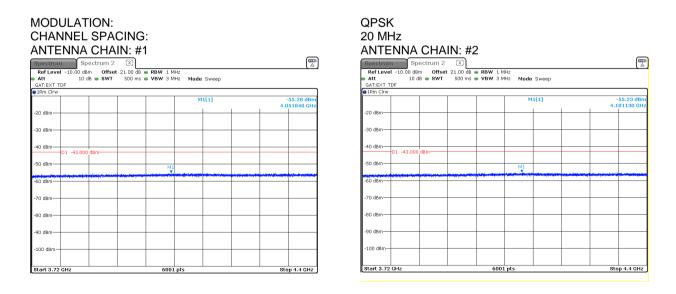


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet	DACC	
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.42 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency



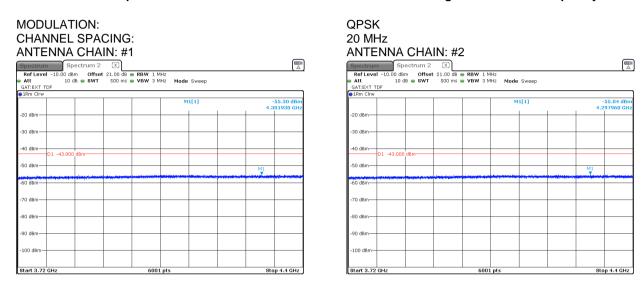
Plot 7.6.43 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency



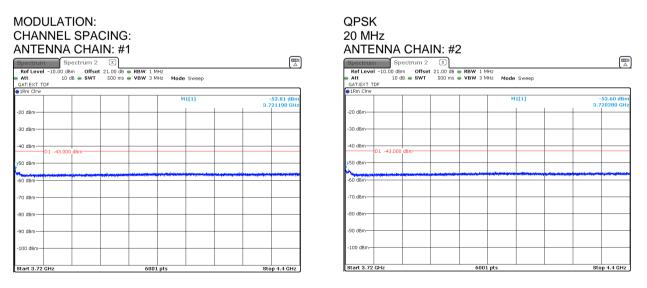


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	09-Feb-22	Verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.44 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency



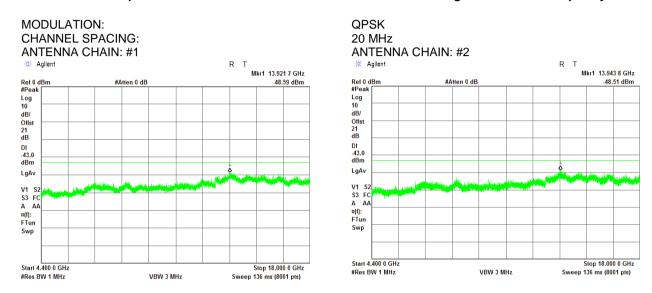
Plot 7.6.45 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency



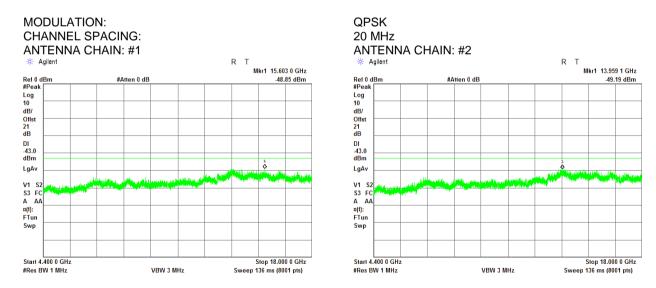


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet. DACC		
Date(s):	09-Feb-22	Verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.46 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency



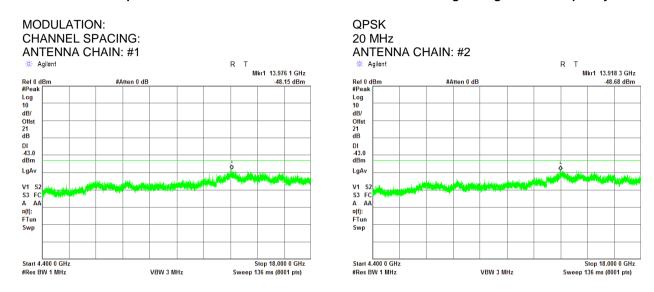
Plot 7.6.47 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency



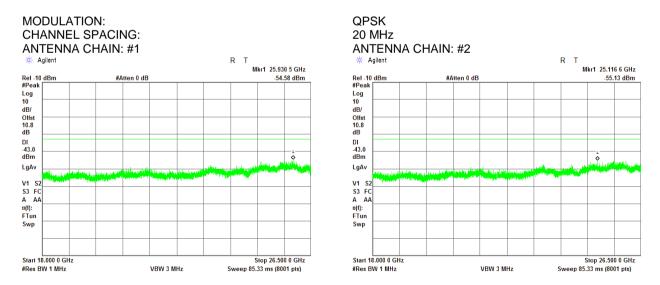


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict.	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.48 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency



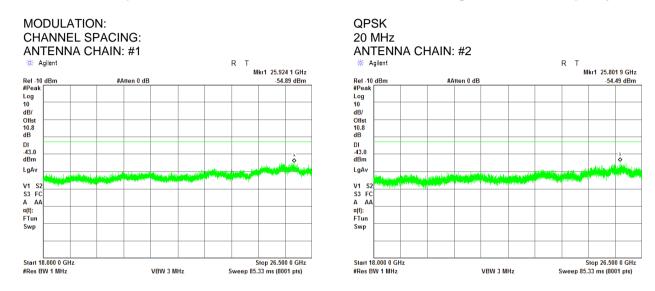
Plot 7.6.49 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency



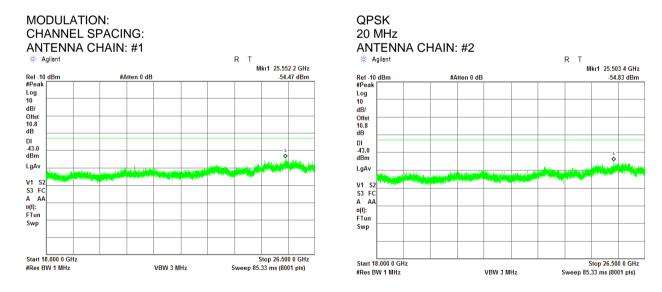


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet	DACC	
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.50 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency



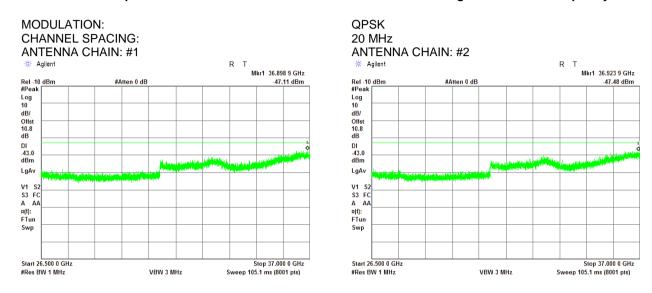
Plot 7.6.51 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency



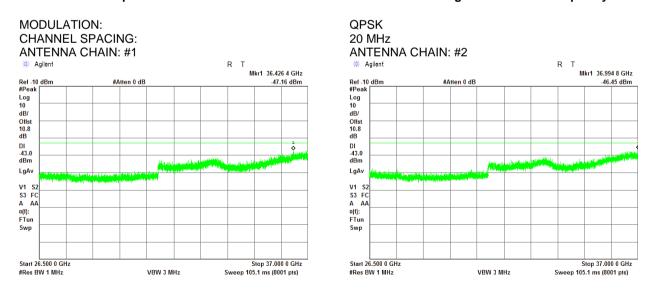


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Vardiet	DACC	
Date(s):	09-Feb-22	Verdict: PASS		
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:	-			

Plot 7.6.52 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency



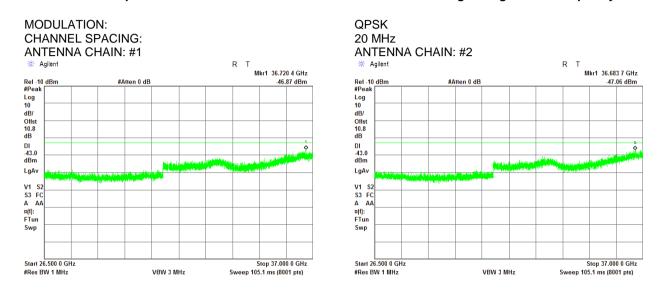
Plot 7.6.53 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency



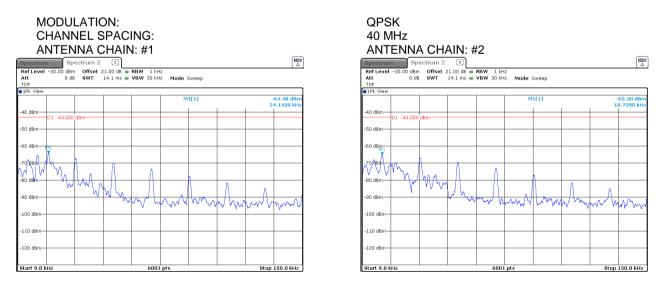


Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.54 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency



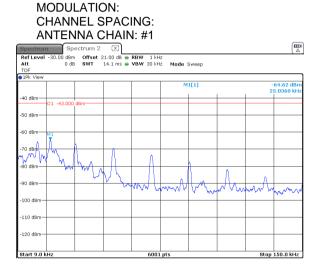
Plot 7.6.55 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency





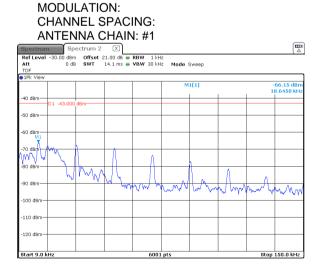
Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	09-Feb-22	Verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

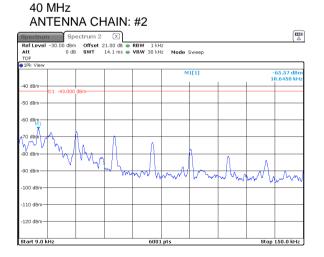
Plot 7.6.56 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency





Plot 7.6.57 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency



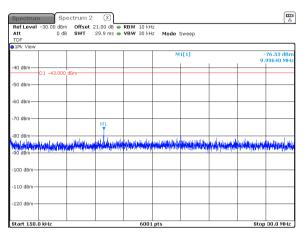




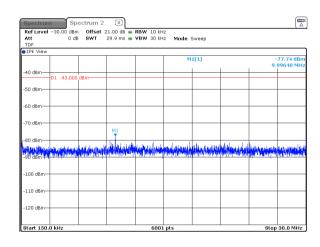
Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict: PASS		
Date(s):	09-Feb-22	Verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.58 Spurious emission measurements in 150 kHz - 30 MHz range at low carrier frequency

CHANNEL SPACING: ANTENNA CHAIN: #1

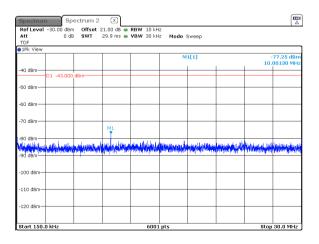


QPSK 40 MHz ANTENNA CHAIN: #2

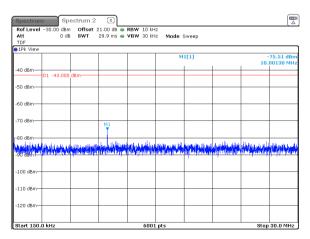


Plot 7.6.59 Spurious emission measurements in 150 kHz - 30 MHz range at mid carrier frequency

MODULATION: CHANNEL SPACING: ANTENNA CHAIN: #1



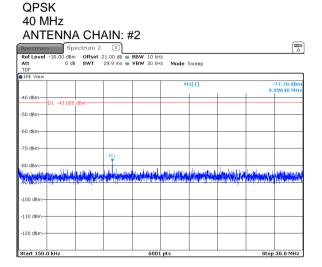
QPSK 40 MHz ANTENNA CHAIN: #2





Test specification:	Section 96.41(e)(3), Conducted spurious emissions			
Test procedure:	Section 96.41(e)(3)			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	09-Feb-22	verdict:	PASS	
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC	
Remarks:				

Plot 7.6.60 Spurious emission measurements in 150 kHz - 30 MHz range at high carrier frequency



Plot 7.6.61 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

Spectrum 2 ②

avel -20.00 dbm Offset 21.00 db RBW 1 MHz

www Spectrum 2 ③

www Spectrum 2 ③

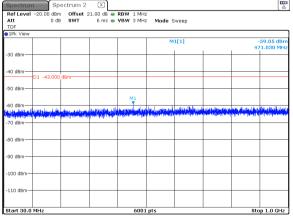
swy Spectrum 2 ③

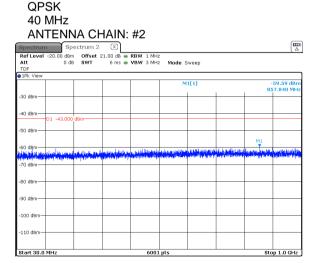
swy Spectrum 3 MHz

swy Spectrum 3 MHz

swy Spectrum 3 MHz

swy Spectrum 3 MHz

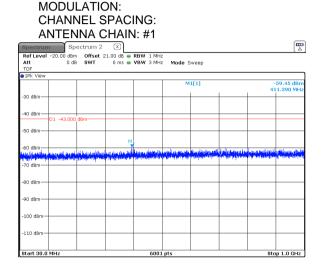


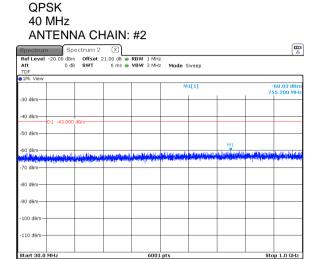




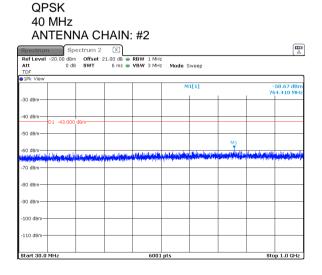
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.62 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency





Plot 7.6.63 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency

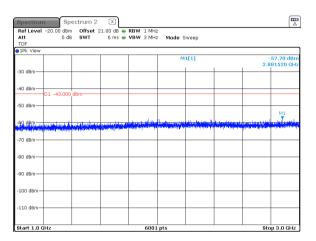




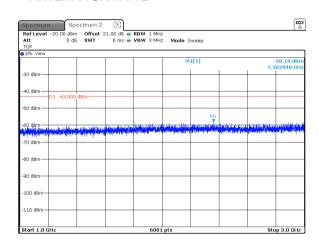
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.64 Spurious emission measurements in 1000 - 3000 MHz range at low carrier frequency

MODULATION: CHANNEL SPACING: ANTENNA CHAIN: #1



QPSK 40 MHz ANTENNA CHAIN: #2



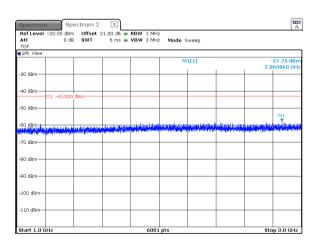
Plot 7.6.65 Spurious emission measurements in 1000 - 3000 MHz range at mid carrier frequency

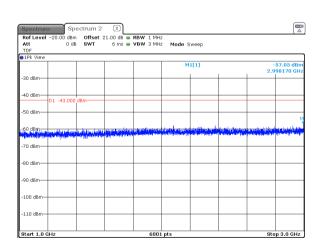
QPSK

40 MHz

ANTENNA CHAIN: #2

MODULATION: CHANNEL SPACING: ANTENNA CHAIN: #1

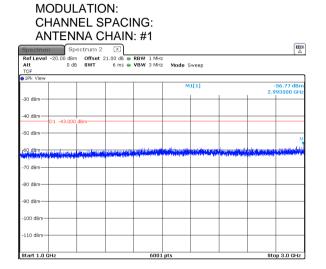


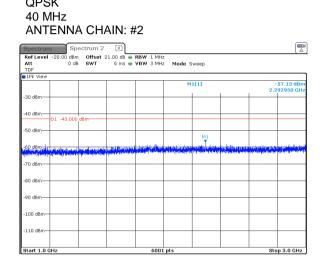




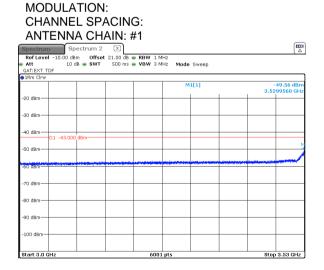
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

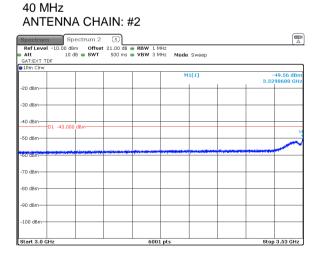
Plot 7.6.66 Spurious emission measurements in 1000 - 3000 MHz range at high carrier frequency





Plot 7.6.67 Spurious emission measurements in 3000 - 3530 MHz range at low carrier frequency

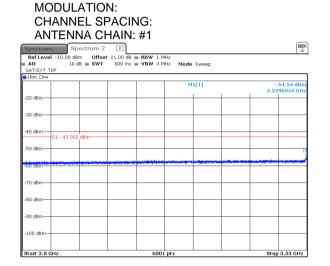


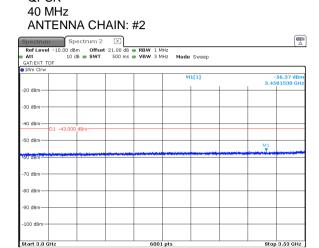




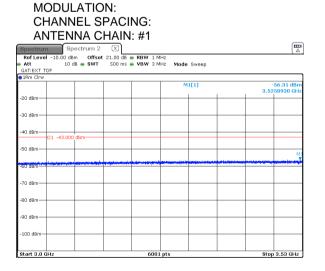
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	09-Feb-22	Verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

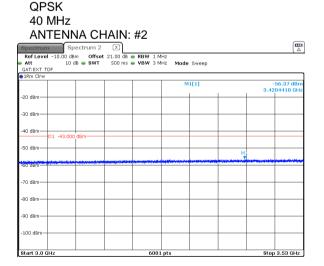
Plot 7.6.68 Spurious emission measurements in 3000 - 3530 MHz range at mid carrier frequency





Plot 7.6.69 Spurious emission measurements in 3000 - 3530 MHz range at high carrier frequency

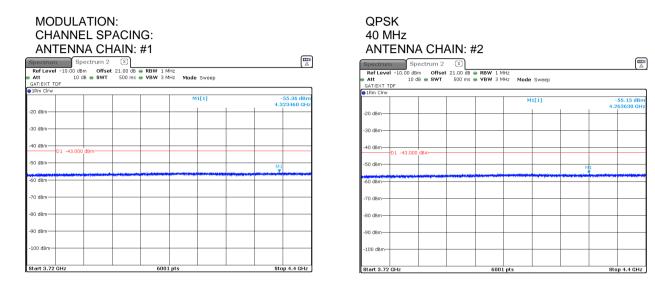




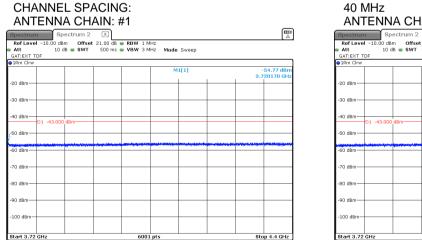


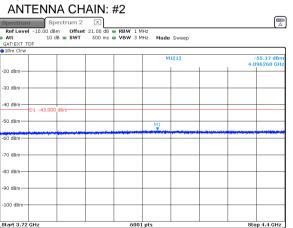
Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.70 Spurious emission measurements in 3720 - 4400 MHz range at low carrier frequency



Plot 7.6.71 Spurious emission measurements in 3720 - 4400 MHz range at mid carrier frequency

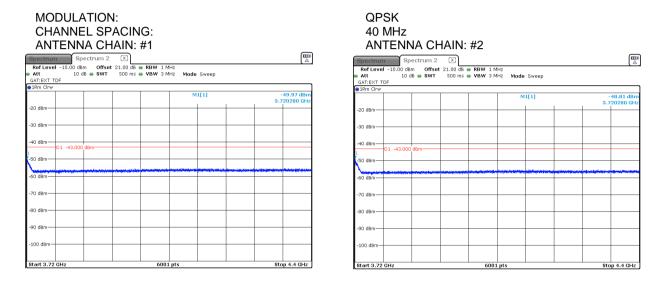




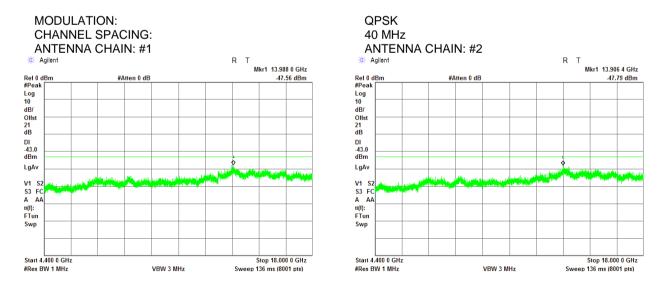


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.72 Spurious emission measurements in 3720 - 4400 MHz range at high carrier frequency



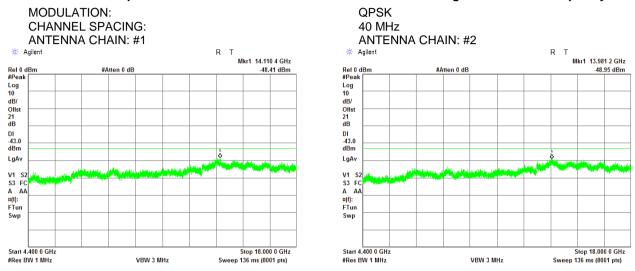
Plot 7.6.73 Spurious emission measurements in 4400 - 18000 MHz range at low carrier frequency



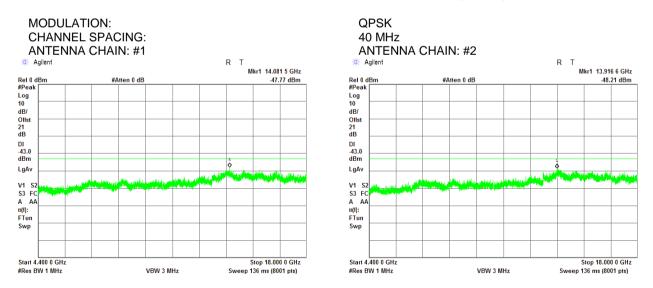


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.74 Spurious emission measurements in 4400 - 18000 MHz range at mid carrier frequency



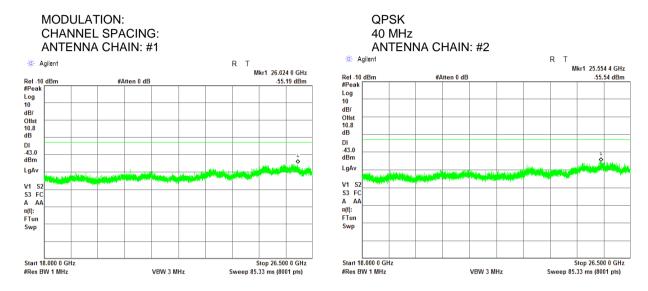
Plot 7.6.75 Spurious emission measurements in 4400 - 18000 MHz range at high carrier frequency



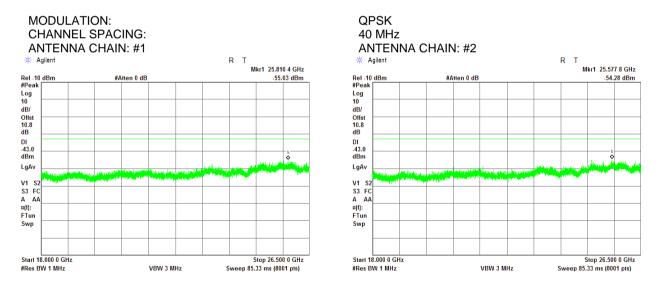


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:	-		

Plot 7.6.76 Spurious emission measurements in 18000 - 26500 MHz range at low carrier frequency



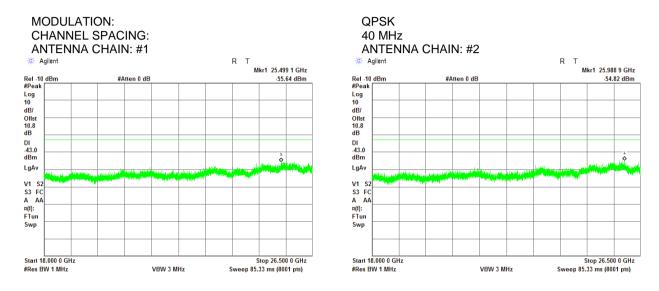
Plot 7.6.77 Spurious emission measurements in 18000 - 26500 MHz range at mid carrier frequency



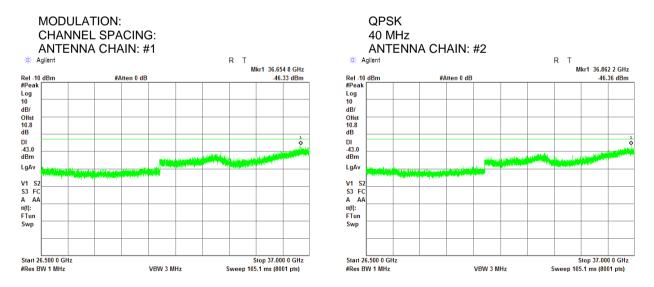


Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict.	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.78 Spurious emission measurements in 18000 - 26500 MHz range at high carrier frequency



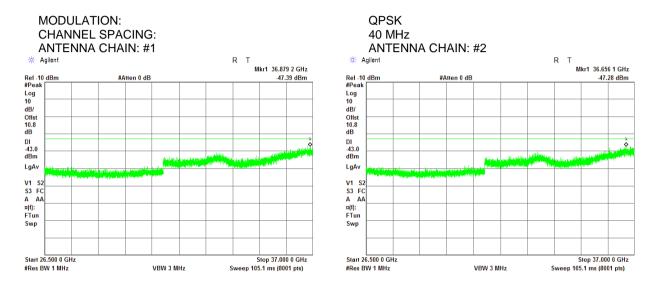
Plot 7.6.79 Spurious emission measurements in 26500 - 37000 MHz range at low carrier frequency





Test specification:	Section 96.41(e)(3), Conducted spurious emissions		
Test procedure:	Section 96.41(e)(3)		
Test mode:	Compliance	Verdict:	PASS
Date(s):	09-Feb-22	verdict:	PASS
Temperature: 24.1 °C	Relative Humidity: 49 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

Plot 7.6.80 Spurious emission measurements in 26500 - 37000 MHz range at mid carrier frequency

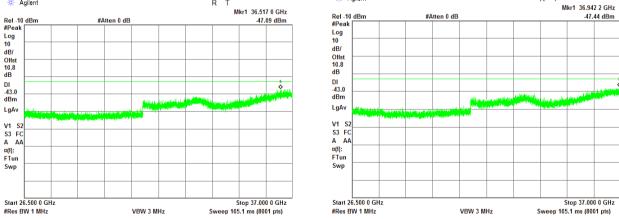


Plot 7.6.81 Spurious emission measurements in 26500 - 37000 MHz range at high carrier frequency

MODULATION:
CHANNEL SPACING:
ANTENNA CHAIN: #1

** Agilent

** Agi





Test specification:	Section 2.1055, Frequency stability		
Test procedure:	47 CFR, Section 2.1055		
Test mode:	Compliance	Verdict:	PASS
Date(s):	15-Feb-22	verdict.	PASS
Temperature: 24.2 °C	Relative Humidity: 48 %	Air Pressure: 1011 hPa	Power: 48 VAC
Remarks:			

7.7 Frequency stability test

7.7.1 General

This test was performed to measure frequency stability of transmitter RF carrier. Specification test limits are given in Table 7.7.1.

Table 7.7.1 Frequency stability limits

Assigned fraguency MHz	Maximum allowed frequency displacement	
Assigned frequency, MHz	ppm	Hz
3555.0	NA	NA
3625.0		NA
3695.0		NA

7.7.2 Test procedure

- 7.7.2.1 The EUT was set up as shown in Figure 7.7.1, energized and its proper operation was checked.
- **7.7.2.2** The EUT power was turned off. Temperature within test chamber was set to +30°C and a period of time sufficient to stabilize all of the oscillator circuit components was allowed.
- **7.7.2.3** The EUT was powered on and carrier frequency was measured at start up moment and then every minute until frequency had been stabilized or 10 minutes elapsed whichever reached the last. The EUT was powered off.
- **7.7.2.4** The above procedure was repeated at 0°C and at the lowest test temperature.
- **7.7.2.5** The EUT was powered on and carrier frequency was measured at start up moment and at the end of stabilization period at the rest of test temperatures and voltages. The EUT was powered off.
- 7.7.2.6 Frequency displacement was calculated and compared with the limit as provided in Table 7.7.2.

Figure 7.7.1 Frequency stability test setup

