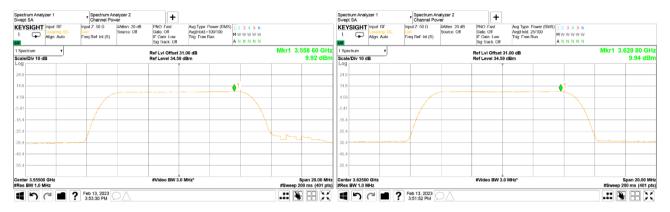


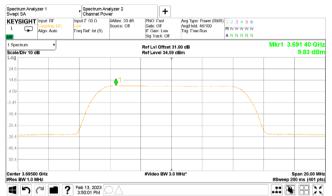
Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	15-Feb-23 - 14-Feb-23	Verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:			

Plot 7.1.16 Peak spectral power density at low, mid, high frequency

CHANNEL SPACING: 10 MHz
ANTENNA CHAIN: 4

Modulation: 256QAM

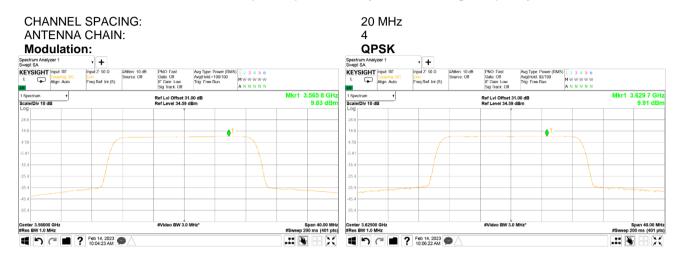


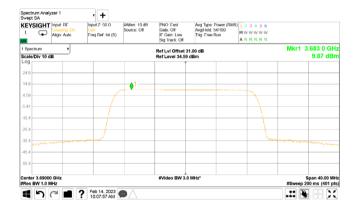




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.17 Peak spectral power density at low, mid, high frequency

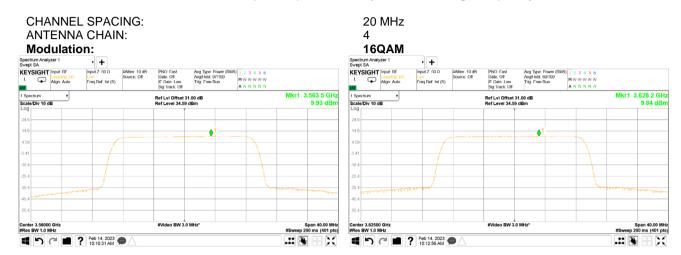


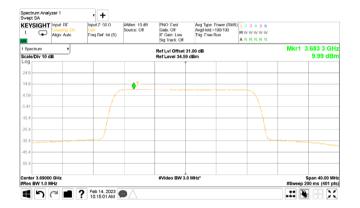




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Verdict: PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:	-		

Plot 7.1.18 Peak spectral power density at low, mid, high frequency



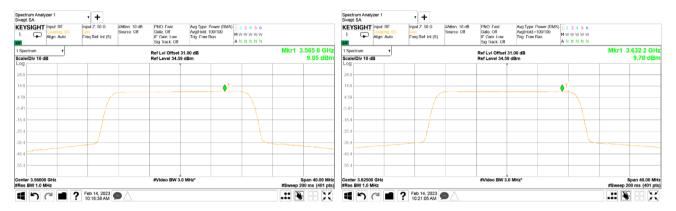


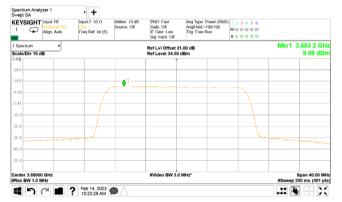


Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	15-Feb-23 - 14-Feb-23	Verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:			

Plot 7.1.19 Peak spectral power density at low, mid, high frequency

CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: 4
Modulation: 64QAM



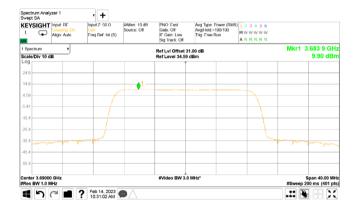




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.20 Peak spectral power density at low, mid, high frequency



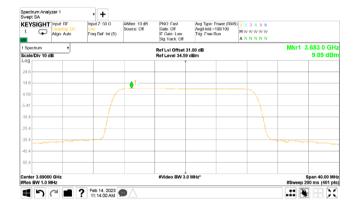




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.21 Peak spectral power density at low, mid, high frequency



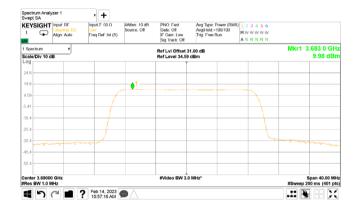




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	15-Feb-23 - 14-Feb-23	Verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:			

Plot 7.1.22 Peak spectral power density at low, mid, high frequency

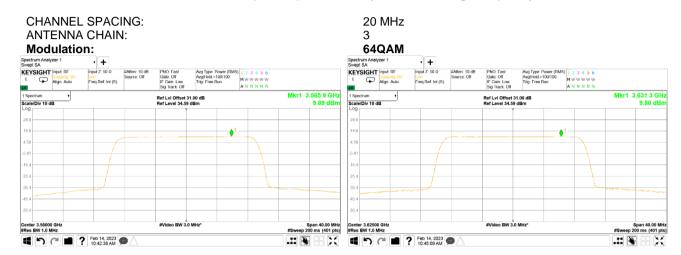


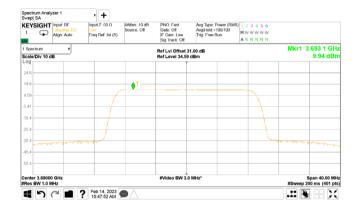




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.23 Peak spectral power density at low, mid, high frequency



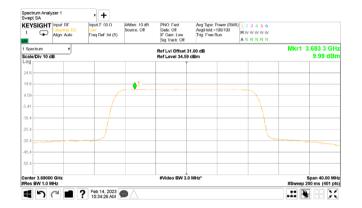




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.24 Peak spectral power density at low, mid, high frequency



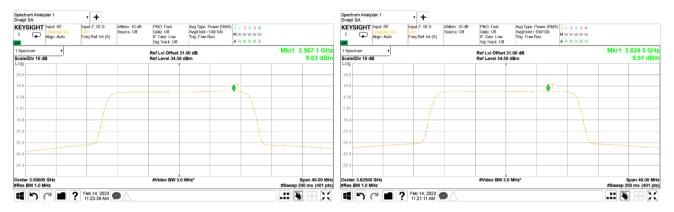


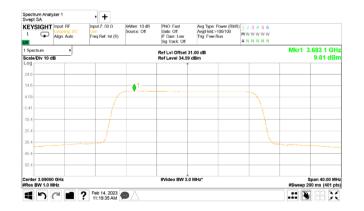


Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	15-Feb-23 - 14-Feb-23	Verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:			

Plot 7.1.25 Peak spectral power density at low, mid, high frequency

CHANNEL SPACING: 20 MHz
ANTENNA CHAIN: 2
Modulation: QPSK

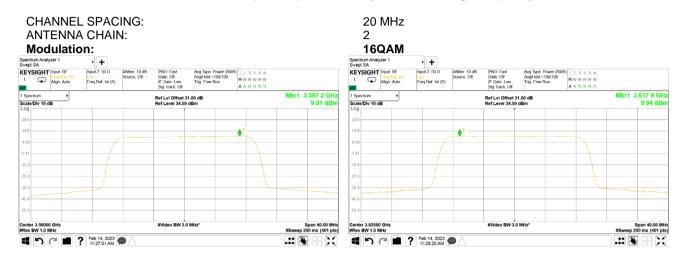


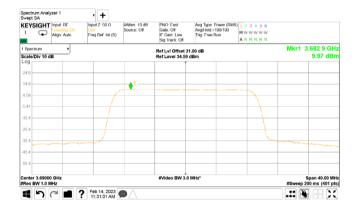




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density		
Test procedure:	Ansi 63.26 section 5.2.3.1		
Test mode:	Compliance	Vardiet. DACC	
Date(s):	15-Feb-23 - 14-Feb-23	Verdict:	PASS
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz
Remarks:			

Plot 7.1.26 Peak spectral power density at low, mid, high frequency

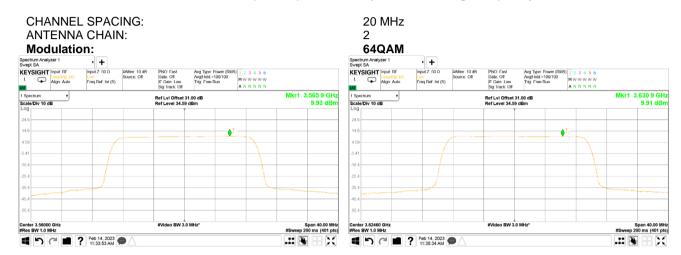


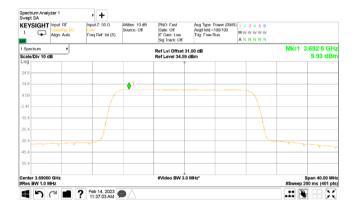




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict.	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.27 Peak spectral power density at low, mid, high frequency



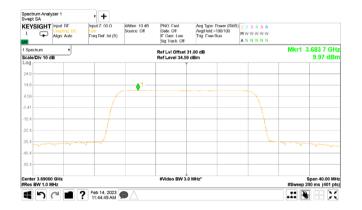




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Ansi 63.26 section 5.2.3.1				
Test mode:	Compliance	- Verdict: PASS			
Date(s):	15-Feb-23 - 14-Feb-23				
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz		
Remarks:					

Plot 7.1.28 Peak spectral power density at low, mid, high frequency



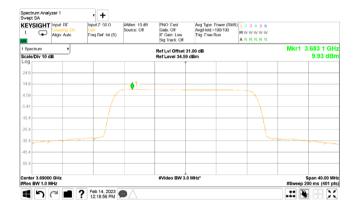




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict:	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.29 Peak spectral power density at low, mid, high frequency



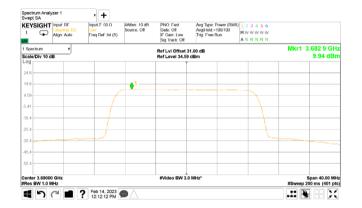




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Ansi 63.26 section 5.2.3.1				
Test mode:	Compliance	- Verdict: PASS			
Date(s):	15-Feb-23 - 14-Feb-23				
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz		
Remarks:					

Plot 7.1.30 Peak spectral power density at low, mid, high frequency



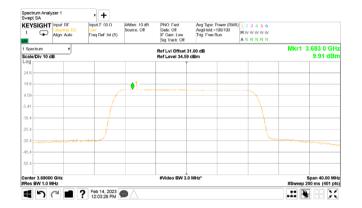




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict:	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.31 Peak spectral power density at low, mid, high frequency

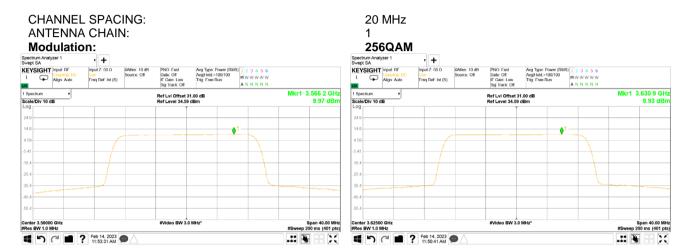


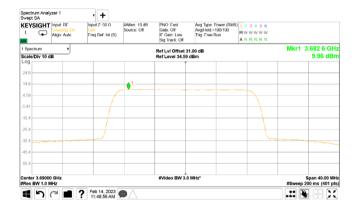




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict:	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Plot 7.1.32 Peak spectral power density at low, mid, high frequency



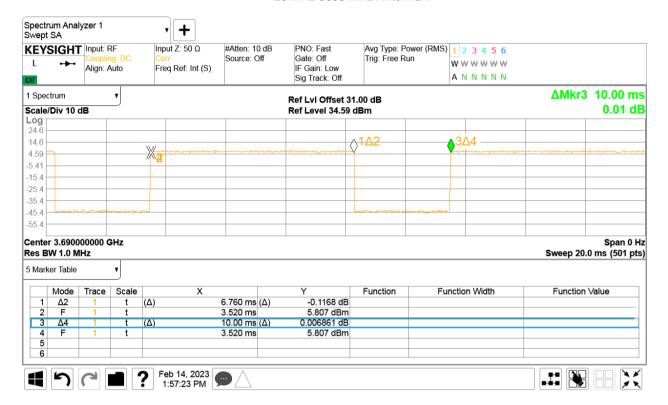




Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density			
Test procedure:	Ansi 63.26 section 5.2.3.1			
Test mode:	Compliance	Verdict:	PASS	
Date(s):	15-Feb-23 - 14-Feb-23	verdict:	PASS	
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz	
Remarks:				

Duty Cycle

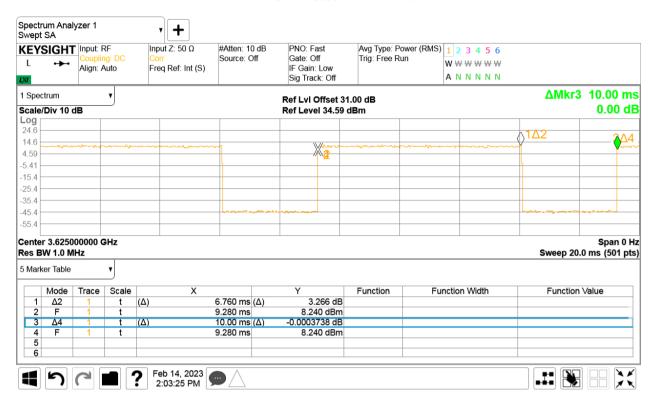
20 MHz 3690 MHz Antenna 1





Test specification:	Section 96.41(b), Maximum EIRP and maximum power spectral density				
Test procedure:	Ansi 63.26 section 5.2.3.1				
Test mode:	Compliance	Vardiot: DACC			
Date(s):	15-Feb-23 - 14-Feb-23	- Verdict: PASS			
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz		
Remarks:					

10 MHz 3690 MHz Antenna 1





Test specification:	Section 96.41(g), Peak-to- average power ratio					
Test procedure:	Section 96.41(g)					
Test mode:	Compliance	Vardiet. DACC				
Date(s):	15-Feb-23 - 14-Feb-23	- Verdict: PASS				
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz			
Remarks:						

7.2 Peak-to-average power ratio (PAPR) test

7.2.1 General

This test was performed to measure the peak to average power ratio at RF antenna connector. Specification test limits are given in Figure 7.2.1.

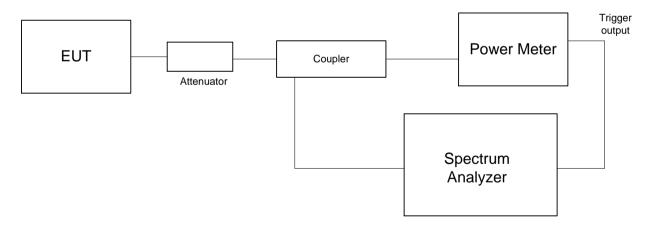
Table 7.2.1 Peak-to-average power ratio limits

Assigned frequency renge MU=	Peak to average power ratio limit		
Assigned frequency range, MHz	Probability, %	dB	
3550.0 - 3700.0	0.1	13.0	

7.2.2 Test procedure

- 7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.
- **7.2.2.2** The EUT was adjusted to produce maximum available to the end user RF output power.
- **7.2.2.3** The peak output power was measured with spectrum analyzer as provided in Table 7.2.2 and associated plots.

Figure 7.2.1 Peak-to-average power ratio test setup





Test specification:	Section 96.41(g), Peak-to- average power ratio					
Test procedure:	Section 96.41(g)					
Test mode:	Compliance	Vardiet: DACC				
Date(s):	15-Feb-23 - 14-Feb-23	Verdict: PASS				
Temperature: 21 °C	Relative Humidity: 54 %	Air Pressure: 1013 hPa	Power: 110 VAC, 50 Hz			
Remarks:						

Table 7.2.2 Peak-to-average power ratio test results

OPERATING FREQUENCY RANGE: 3550 – 3700 MHz
DETECTOR USED: Peak/Average
MODULATING SIGNAL: PRBS
TRANSMITTER OUTPUT POWER SETTINGS: Maximum

TRANSMITTER COTT	JI FOWER SETTINGS.		_	
Carrier frequency, MHz	Peak to average ratio, dB	Limit, dBm	Margin, dB	Verdict
Channel spacing 10 M	lHz			
Modulation QPSK				
3555.0	7.80	13.0	-5.20	Pass
3625.0	7.79	13.0	-5.21	Pass
3695.0	7.89	13.0	-5.11	Pass
Modulation 16QAM				
3555.0	7.84	13.0	-5.16	Pass
3625.0	7.78	13.0	-5.22	Pass
3695.0	7.76	13.0	-5.24	Pass
Modulation 64QAM				
3555.0	7.84	13.0	-5.16	Pass
3625.0	7.77	13.0	-5.23	Pass
3695.0	7.75	13.0	-5.25	Pass
Modulation 256QAM				
3555.0	7.88	13.0	-5.12	Pass
3625.0	7.84	13.0	-5.16	Pass
3695.0	7.97	13.0	-5.03	Pass

Channel spacing 20 MHz	2			
Modulation QPSK				
3560.0	7.57	13.0	-5.43	Pass
3625.0	7.64	13.0	-5.36	Pass
3690.0	7.93	13.0	-5.07	Pass
Modulation 16QAM				
3560.0	7.61	13.0	-5.39	Pass
3625.0	7.63	13.0	-5.37	Pass
3690.0	7.81	13.0	-5.19	Pass
Modulation 64QAM				
3560.0	7.62	13.0	-5.38	Pass
3625.0	7.63	13.0	-5.37	Pass
3690.0	7.68	13.0	-5.32	Pass
Modulation 256QAM				
3560.0	7.63	13.0	-5.37	Pass
3625.0	7.65	13.0	-5.35	Pass
3690.0	7.68	13.0	-5.32	Pass

Reference numbers of test equipment used

	•	•				
HL 3301	HL 3302	HL 4366	HL 5376	HL 5642		

Full description is given in Appendix A.