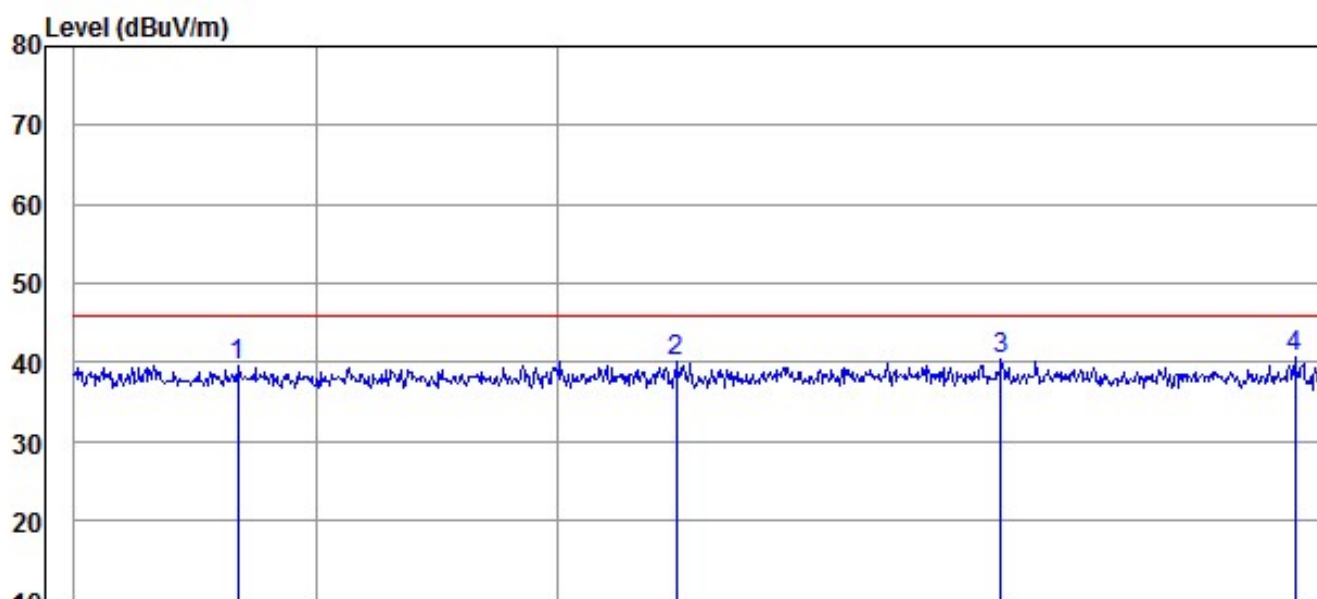


Model	UAH022
Operation Mode	Mode 1 at low frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

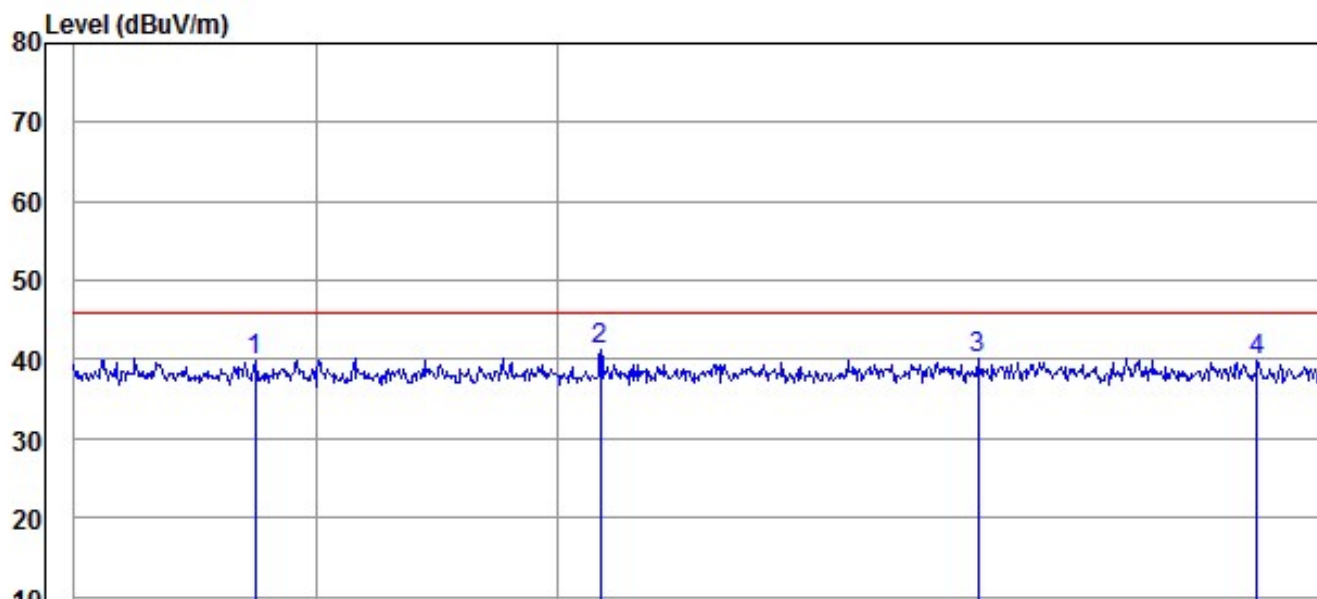


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.68	10.83	28.68	39.51	46.00	6.49
610.49	11.39	28.75	40.14	46.00	5.86
611.84	11.62	28.82	40.44	46.00	5.56
613.06	11.74	28.82	40.56	46.00	5.44

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.75	11.11	28.68	39.79	46.00	6.21
610.18	12.39	28.75	41.14	46.00	4.86
611.74	11.18	28.82	40.00	46.00	6.00
612.90	11.09	28.82	39.91	46.00	6.09

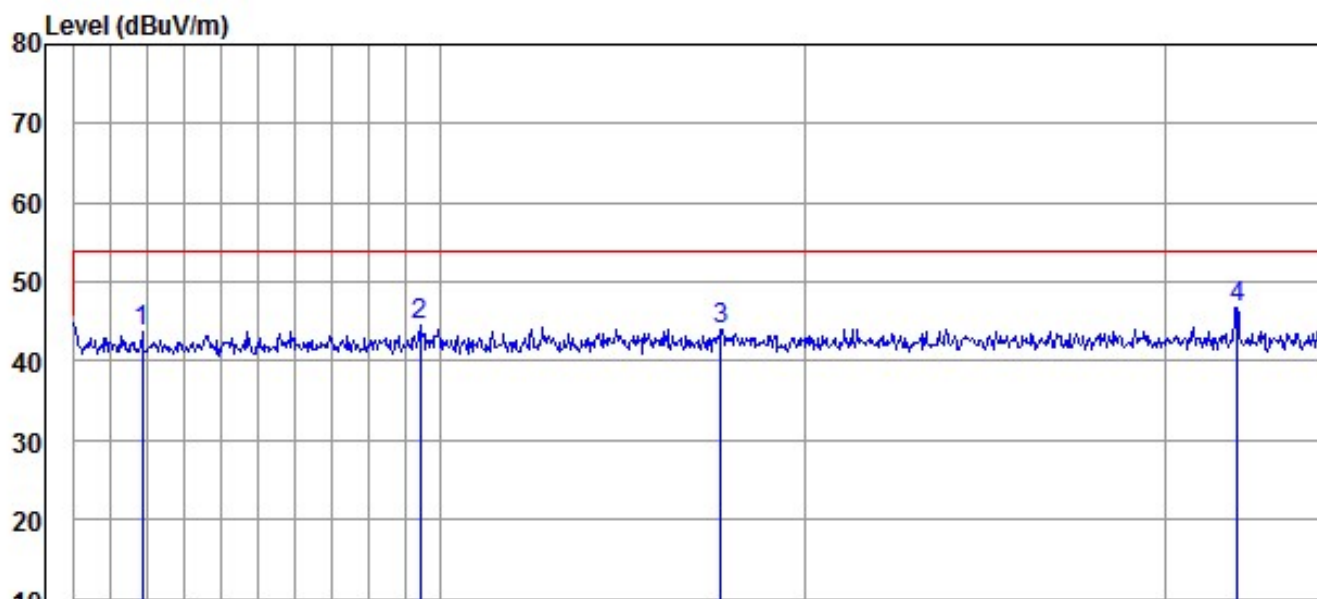
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	UAH022
Operation Mode	Mode 1 at high frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

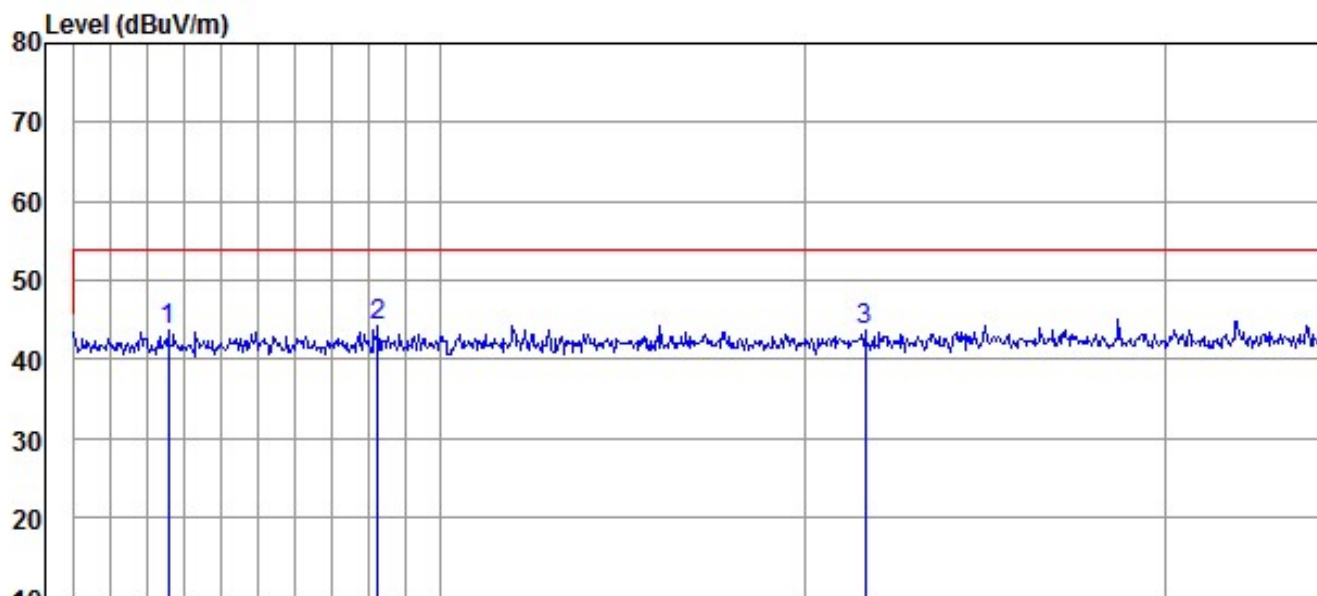


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
961.84	11.52	32.30	43.82	54.00	10.18
969.41	11.94	32.46	44.40	54.00	9.60
977.68	11.34	32.77	44.11	54.00	9.89
992.03	13.71	33.08	46.79	54.00	7.21

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
962.55	11.29	32.30	43.59	54.00	10.41
968.27	11.82	32.46	44.28	54.00	9.72
981.68	10.85	32.87	43.72	54.00	10.28
996.66	11.84	33.10	44.94	54.00	9.06

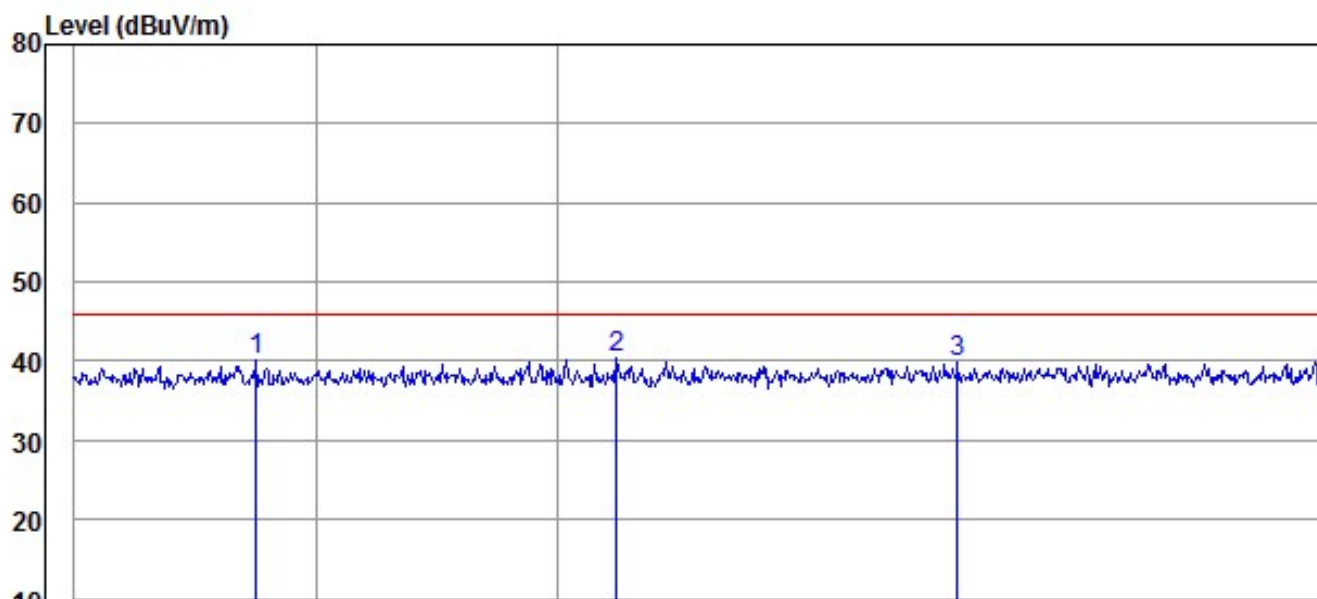
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	UAH022
Operation Mode	Mode 2 at low frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

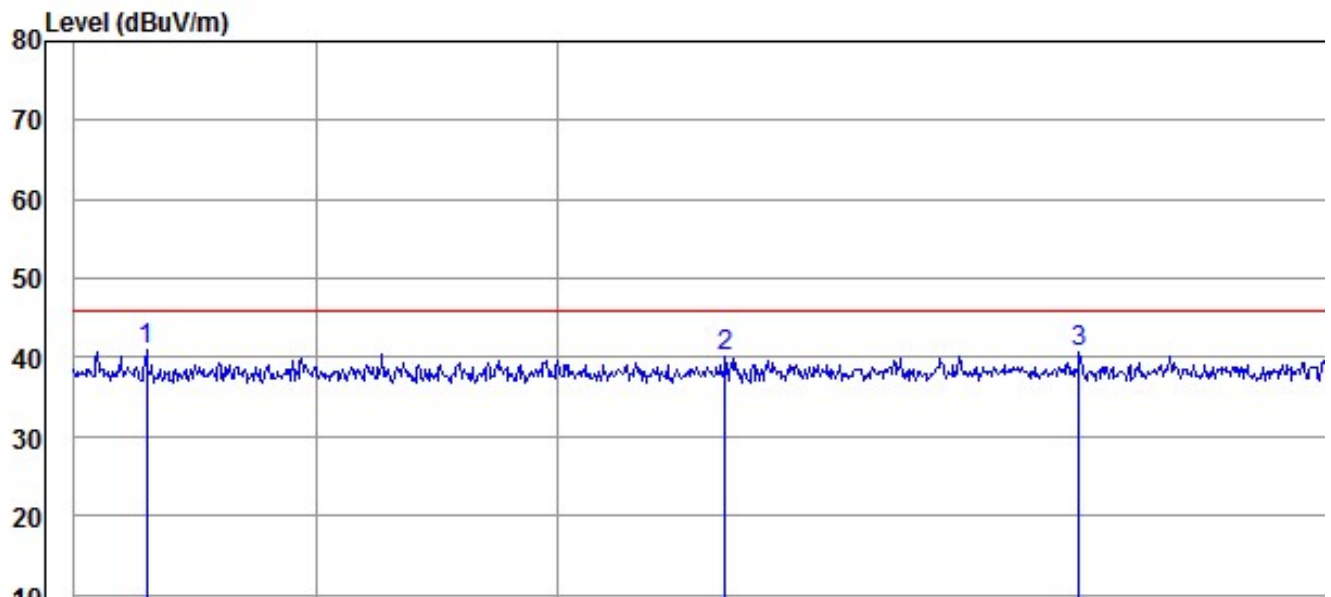


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.75	11.38	28.68	40.06	46.00	5.94
610.24	11.70	28.75	40.45	46.00	5.55
611.66	10.94	28.82	39.76	46.00	6.24
613.43	11.22	28.88	40.10	46.00	5.90

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.30	12.16	28.68	40.84	46.00	5.16
610.69	11.28	28.75	40.03	46.00	5.97
612.16	11.85	28.82	40.67	46.00	5.33
613.31	11.35	28.88	40.23	46.00	5.77

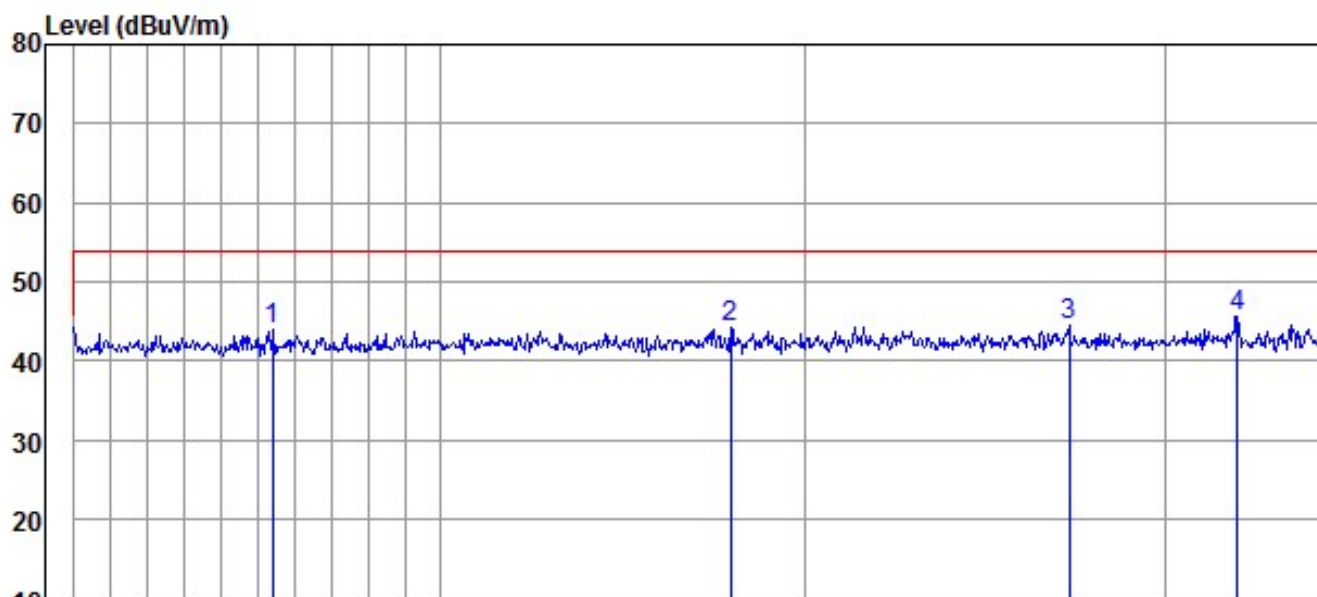
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	UAH022
Operation Mode	Mode 2 at high frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

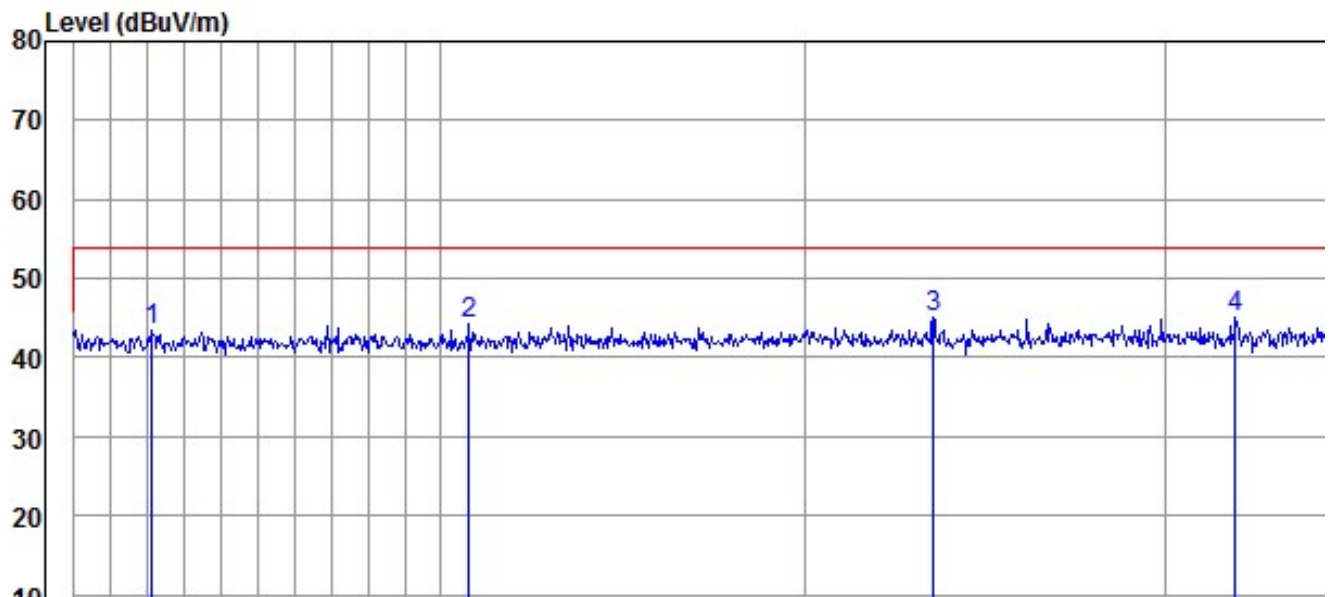


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
965.38	11.48	32.39	43.87	54.00	10.13
977.96	11.48	32.77	44.25	54.00	9.75
987.34	11.44	32.96	44.40	54.00	9.60
992.03	12.65	33.08	45.73	54.00	8.27

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
962.12	11.09	32.30	43.39	54.00	10.61
970.76	11.74	32.56	44.30	54.00	9.70
983.56	12.10	32.87	44.97	54.00	9.03
991.99	12.07	33.08	45.15	54.00	8.85

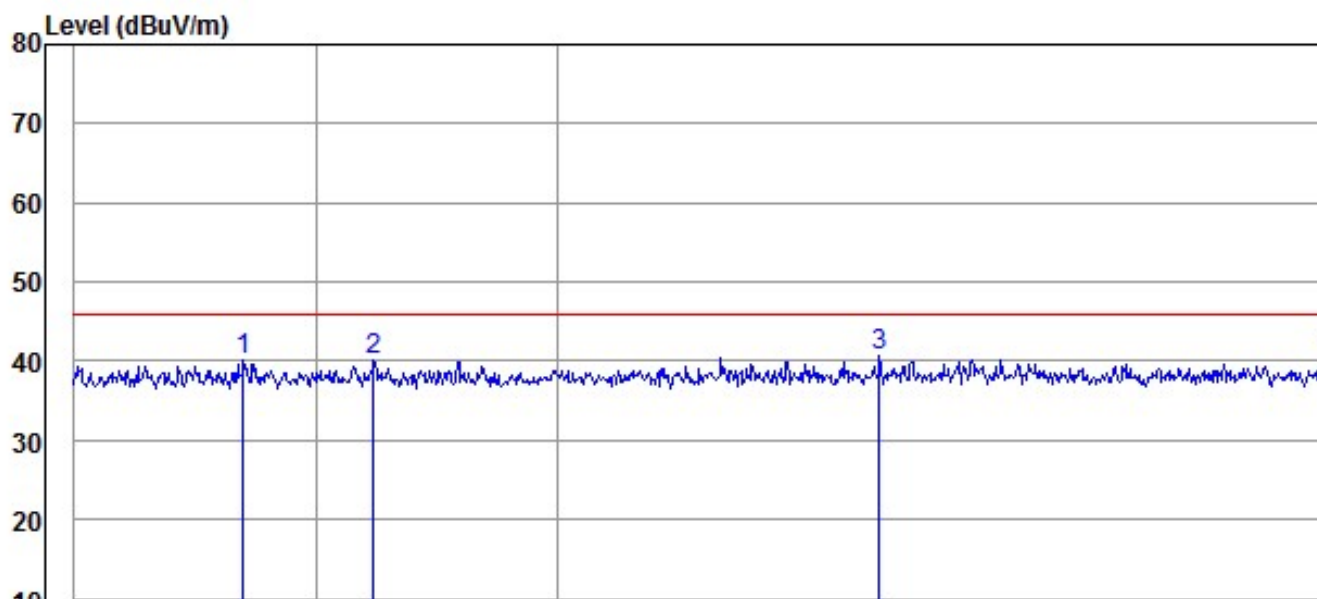
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	UAH022
Operation Mode	Mode 3 at low frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

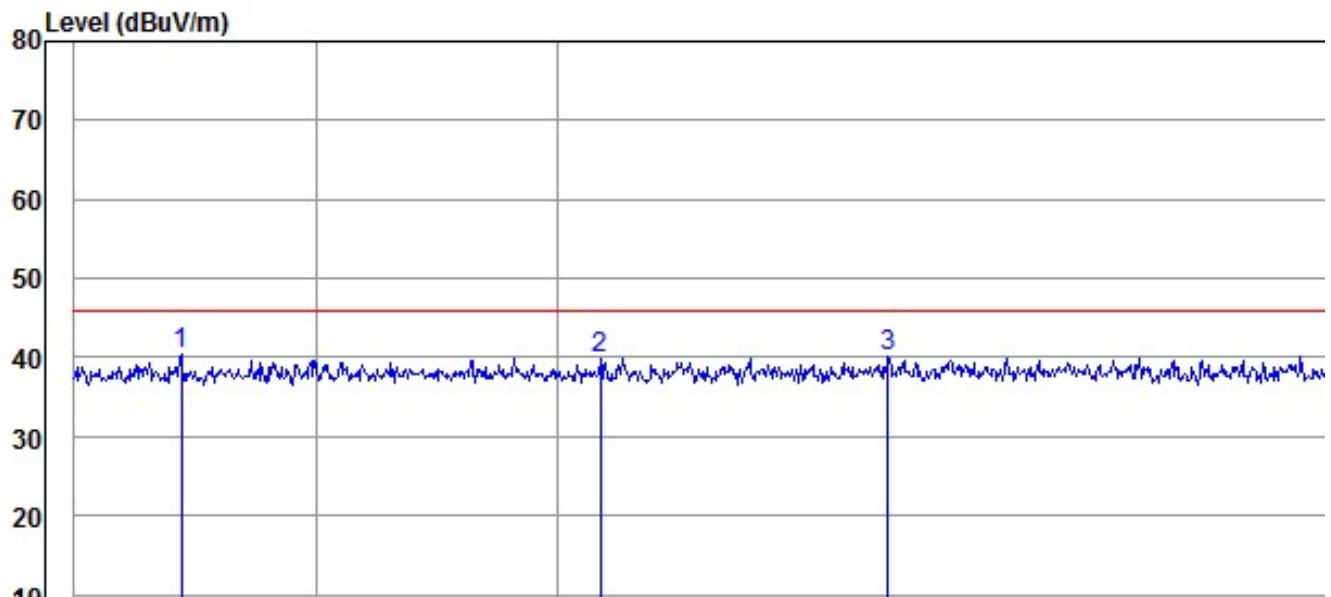


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.70	11.35	28.68	40.03	46.00	5.97
609.24	11.33	28.75	40.08	46.00	5.92
611.34	11.84	28.82	40.66	46.00	5.34
613.21	11.72	28.88	40.60	46.00	5.40

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
608.44	11.65	28.68	40.33	46.00	5.67
610.18	11.22	28.75	39.97	46.00	6.03
611.37	11.28	28.82	40.10	46.00	5.90
613.71	11.82	28.88	40.70	46.00	5.30

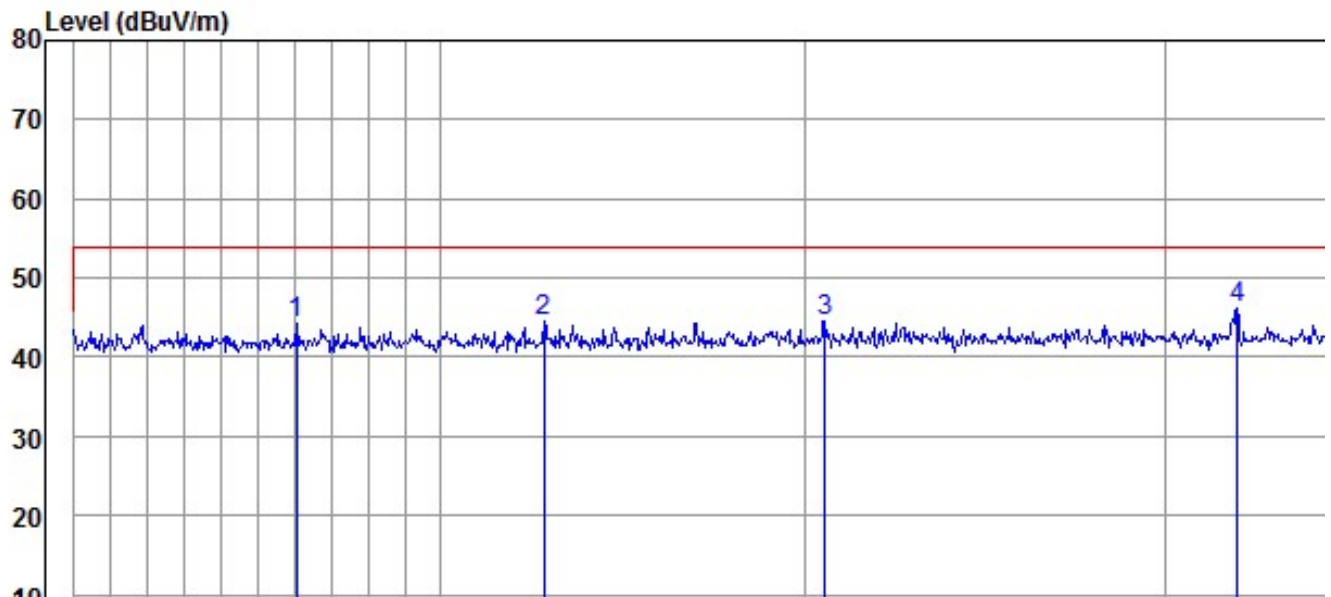
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Model	UAH022
Operation Mode	Mode 3 at high frequency
Test voltage	3.3Vdc
Antenna	4#

Results

Horizontal

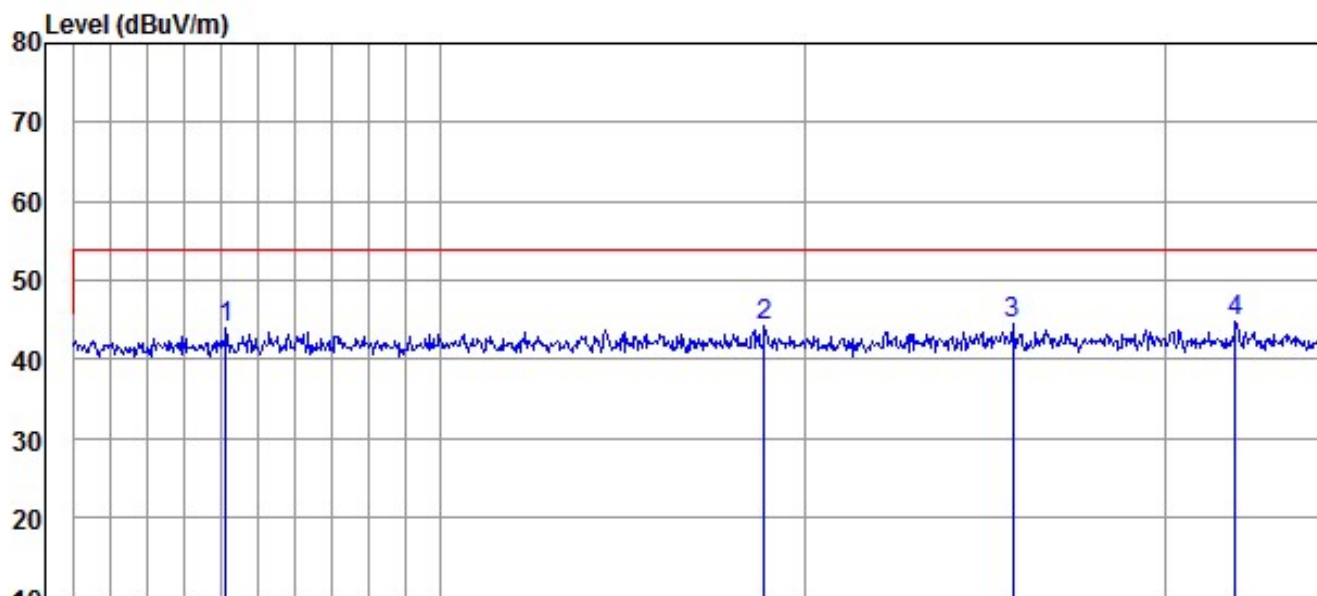


Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
966.05	11.95	32.39	44.34	54.00	9.66
972.82	11.91	32.56	44.47	54.00	9.53
980.56	11.78	32.77	44.55	54.00	9.45
992.03	13.00	33.08	46.08	54.00	7.92

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
964.12	11.56	32.39	43.95	54.00	10.05
978.88	11.36	32.77	44.13	54.00	9.87
985.77	11.55	32.96	44.51	54.00	9.49
991.99	11.81	33.08	44.89	54.00	9.11

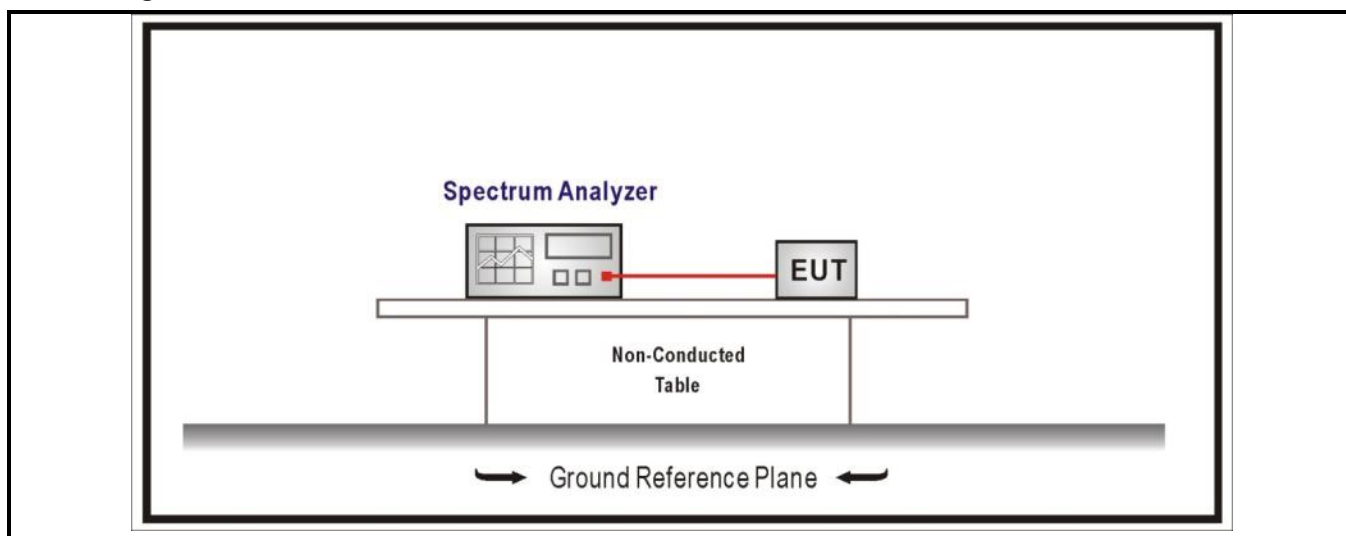
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

4.4 Band Edge	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247(d) RSS-Gen Issue 5 Section 8.10
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)
Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 30 dBc). Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).	

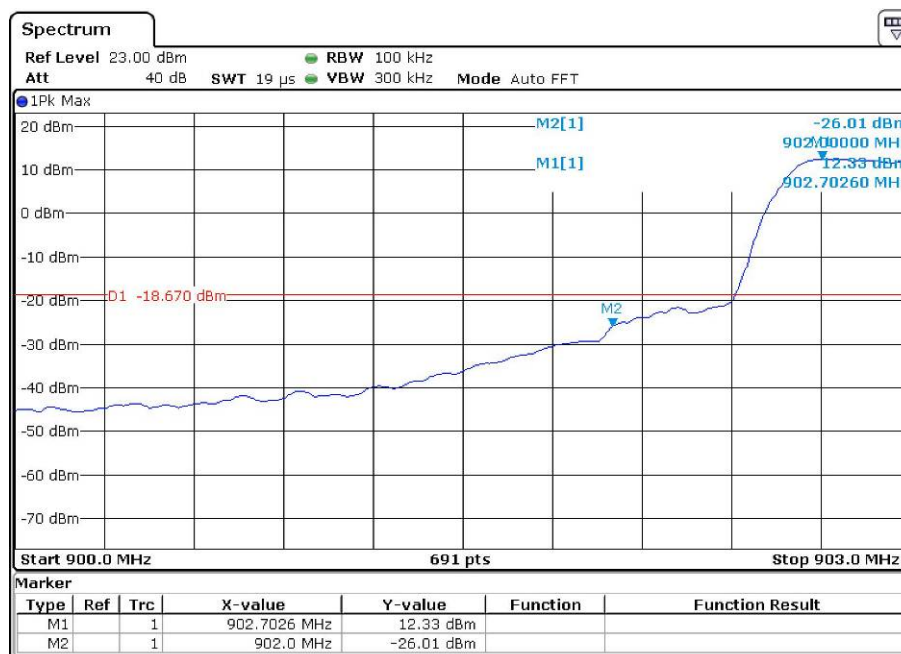
Test Configuration



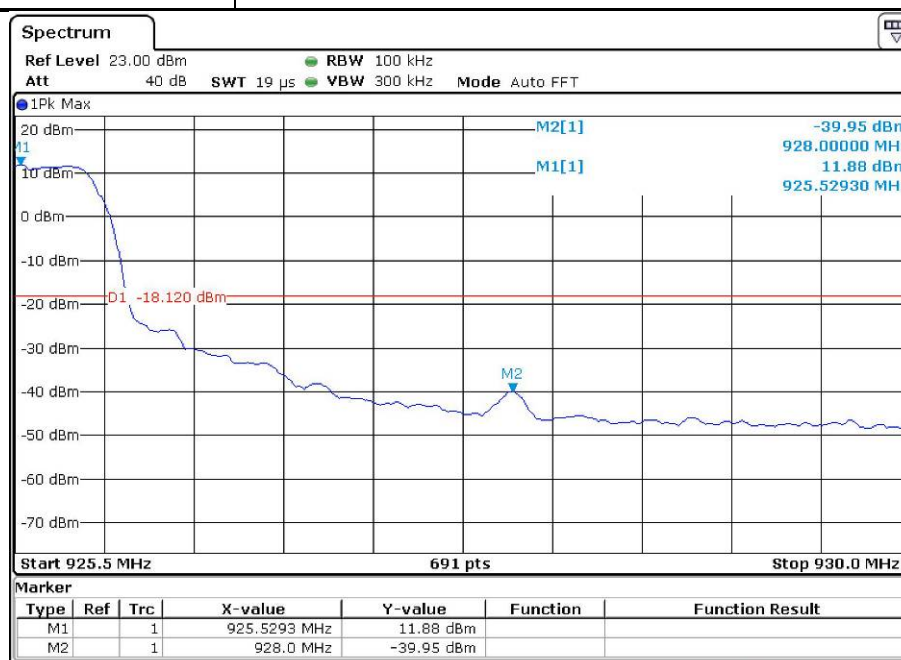
Performed measurements

Port under test	Antenna port
Test method applied	☒ Conducted measurement
	☐ Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).
Operating mode(s) used	Mode 1-3
Remark	---

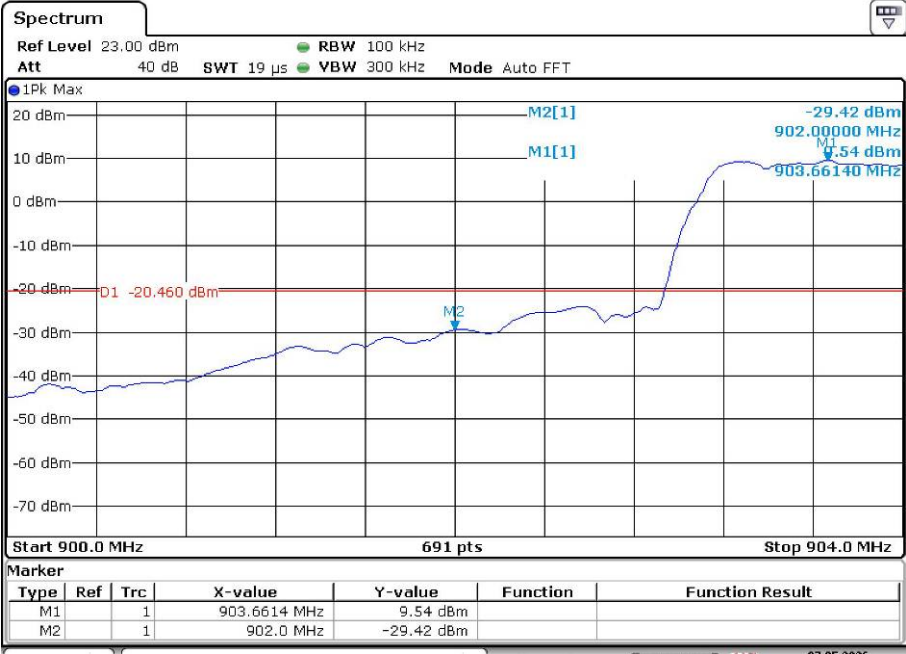
Model	UAH022
Operation Mode	Mode 1 at low frequency
Test voltage	3.3Vdc



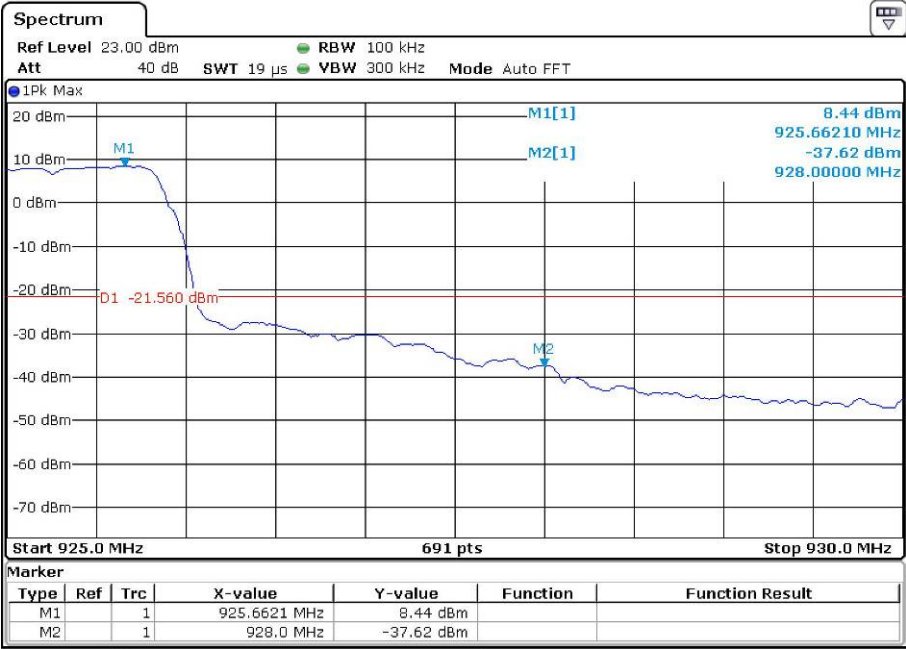
Model	UAH022
Operation Mode	Mode 1 at high frequency
Test voltage	3.3Vdc



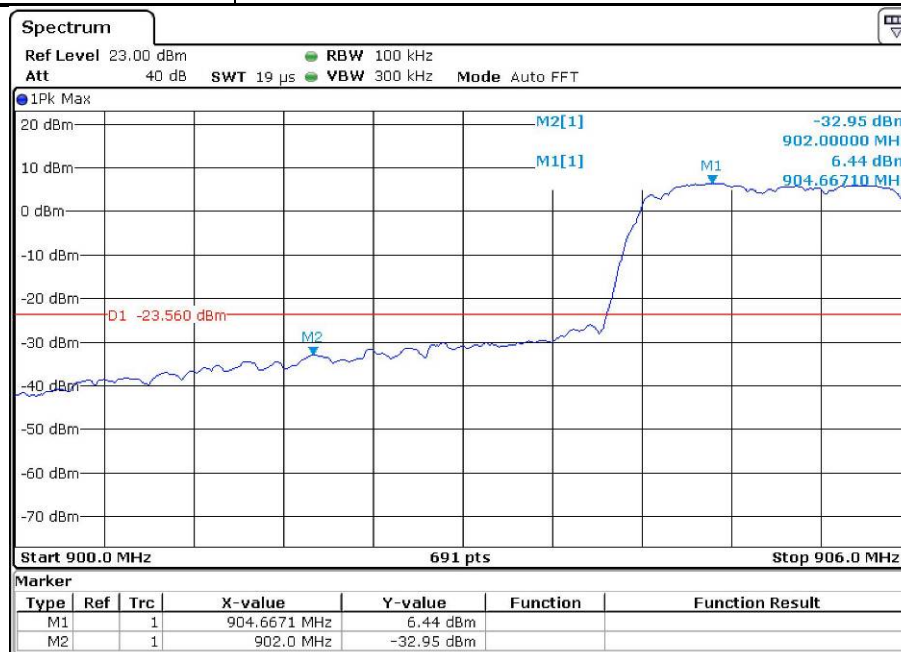
Model	UAH022
Operation Mode	Mode 2 at low frequency
Test voltage	3.3Vdc



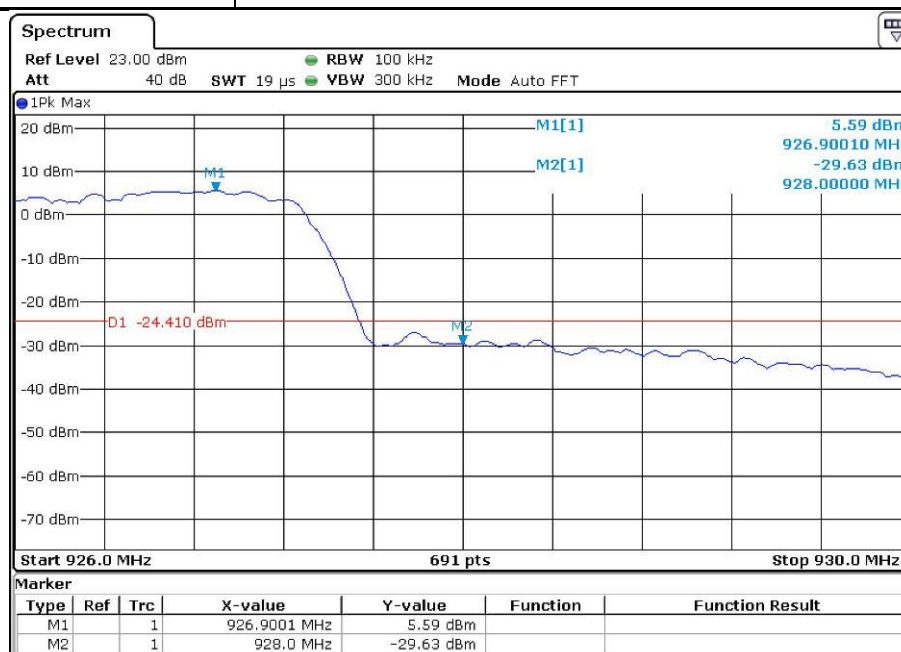
Model	UAH022
Operation Mode	Mode 2 at high frequency
Test voltage	3.3Vdc



Model	UAH022
Operation Mode	Mode 3 at low frequency
Test voltage	3.3Vdc

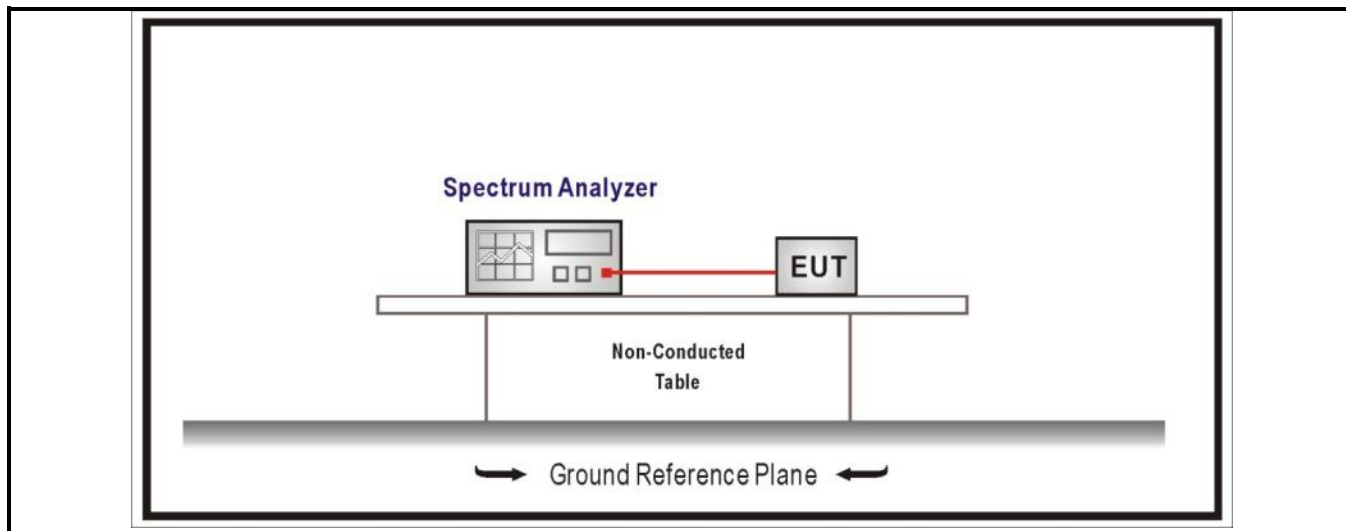


Model	UAH022
Operation Mode	Mode 3 at high frequency
Test voltage	3.3Vdc



4.5	Duty cycle	VERDICT: PASS
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Test Configuration



Performed measurements

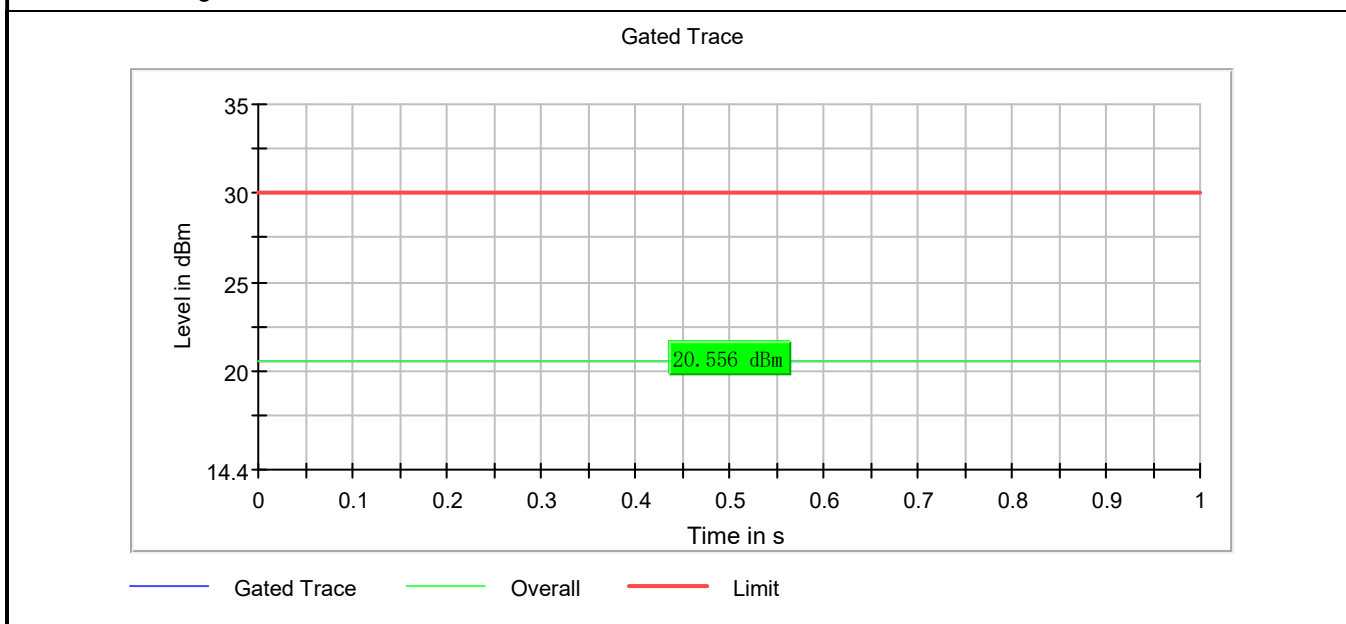
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1-3	
Remark	---	

Results

Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
1M	---	---	100.00%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

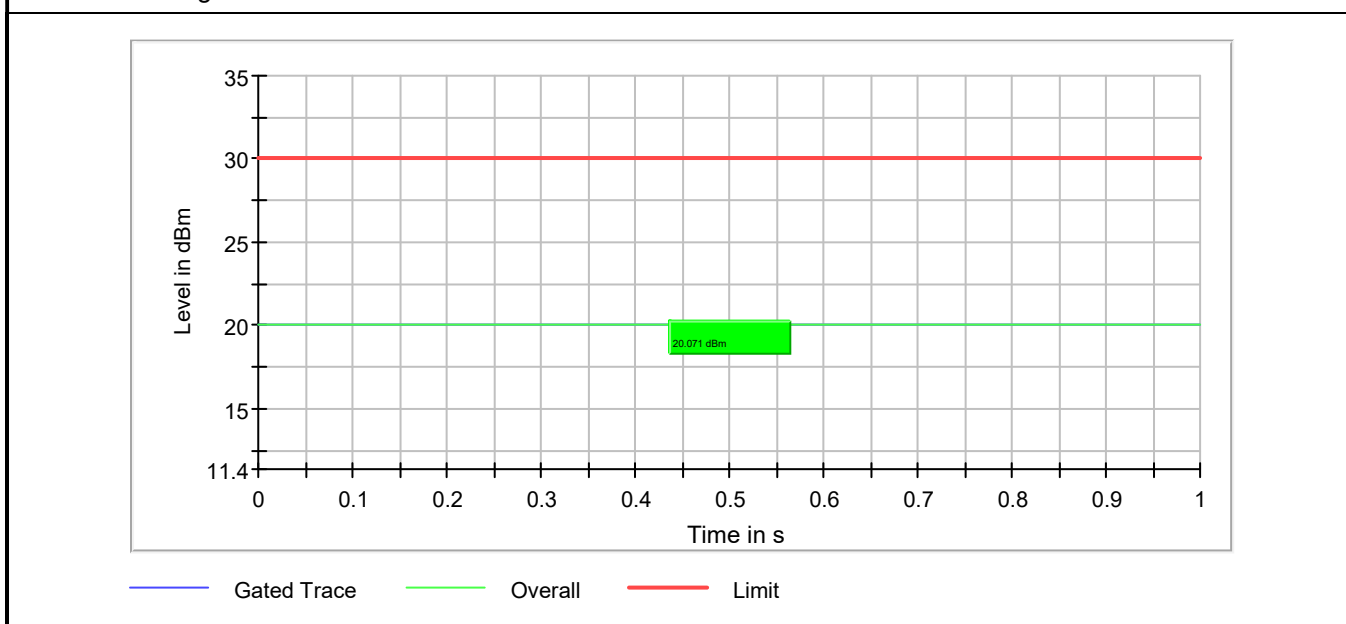
Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq 1/T$ will be used.

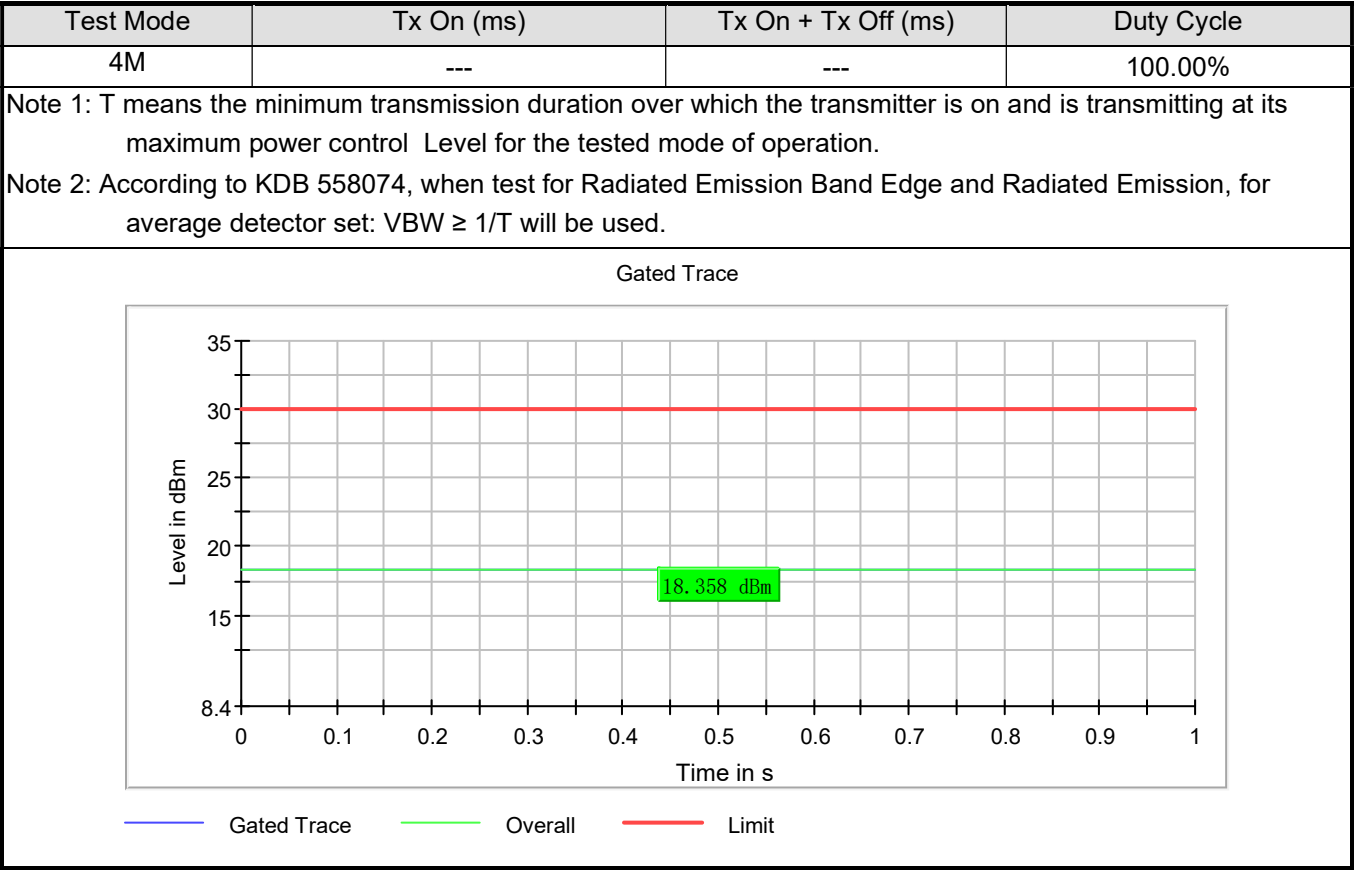


Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
2M	---	---	100.00%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW $\geq 1/T$ will be used.

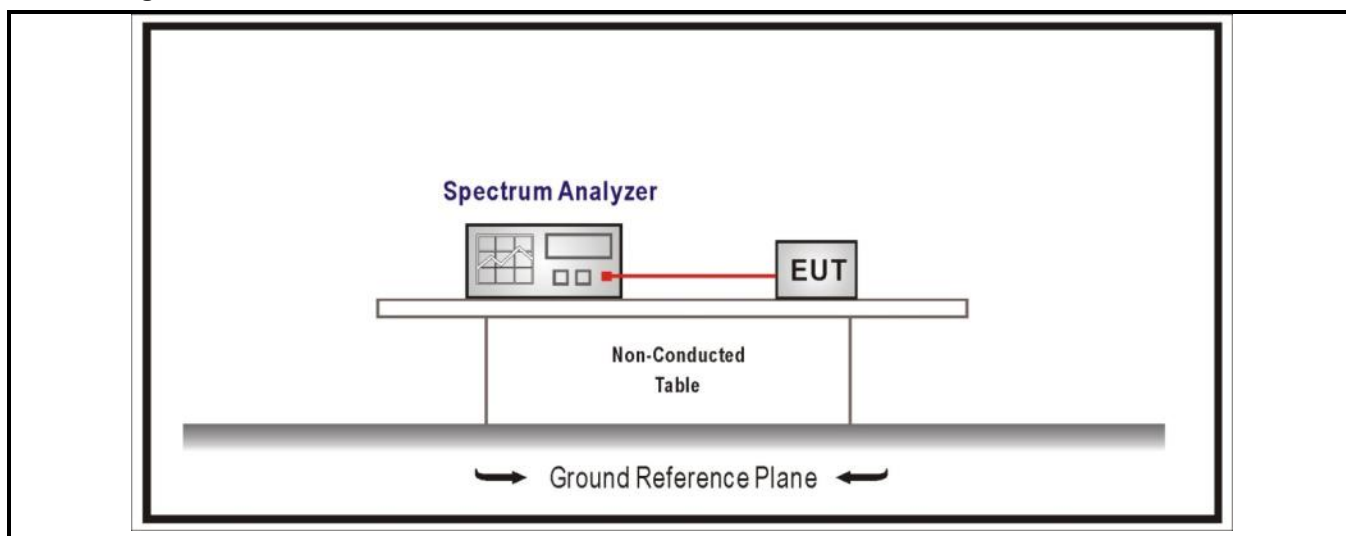




4.6 DTS Bandwidth	VERDICT: PASS
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Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2) RSS-Gen Issue 5 Section 6.7 RSS-247 Issue 4 section 5.2 a)
Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz	

Test Configuration



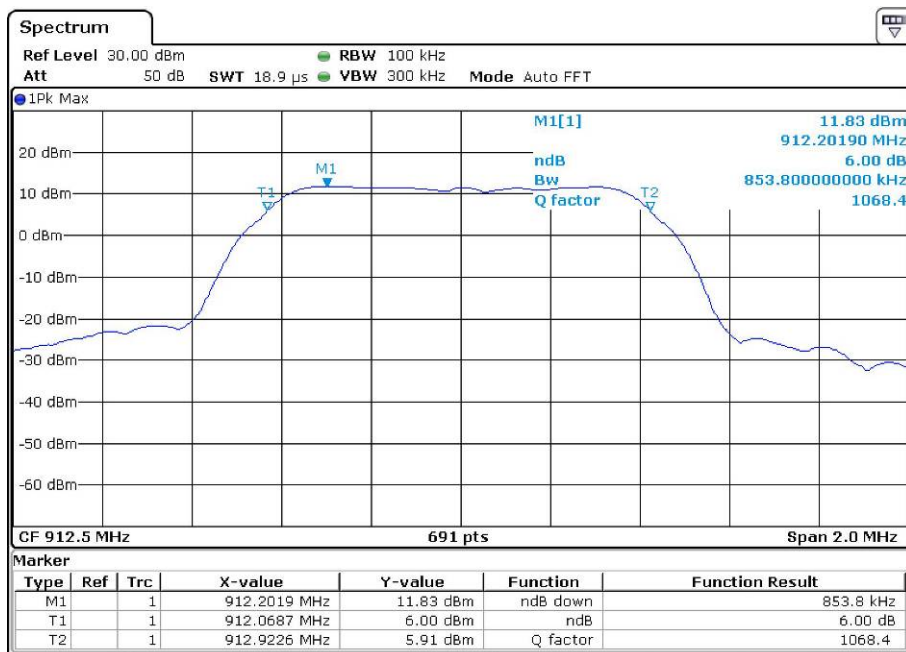
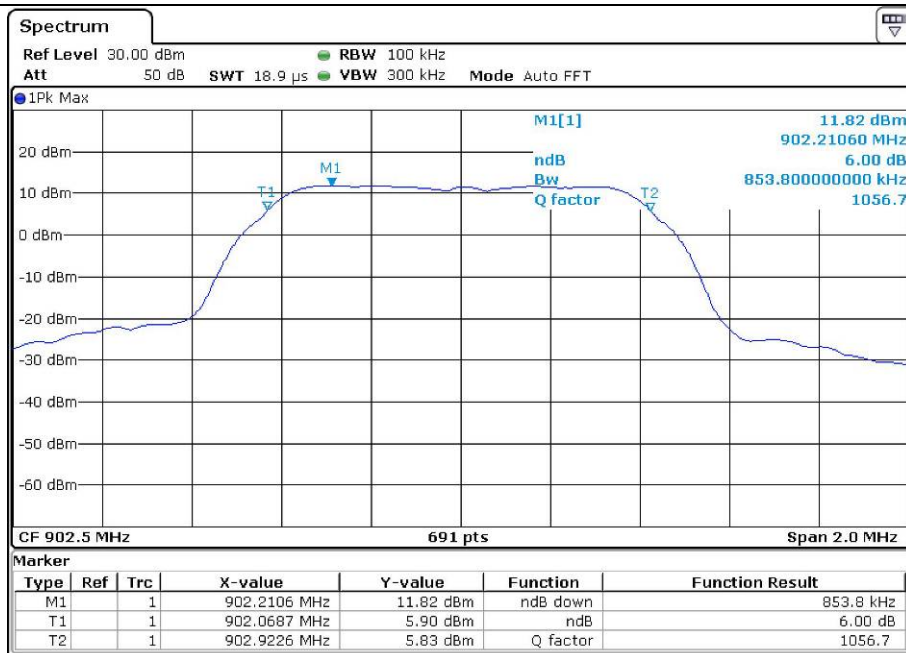
Performed measurements

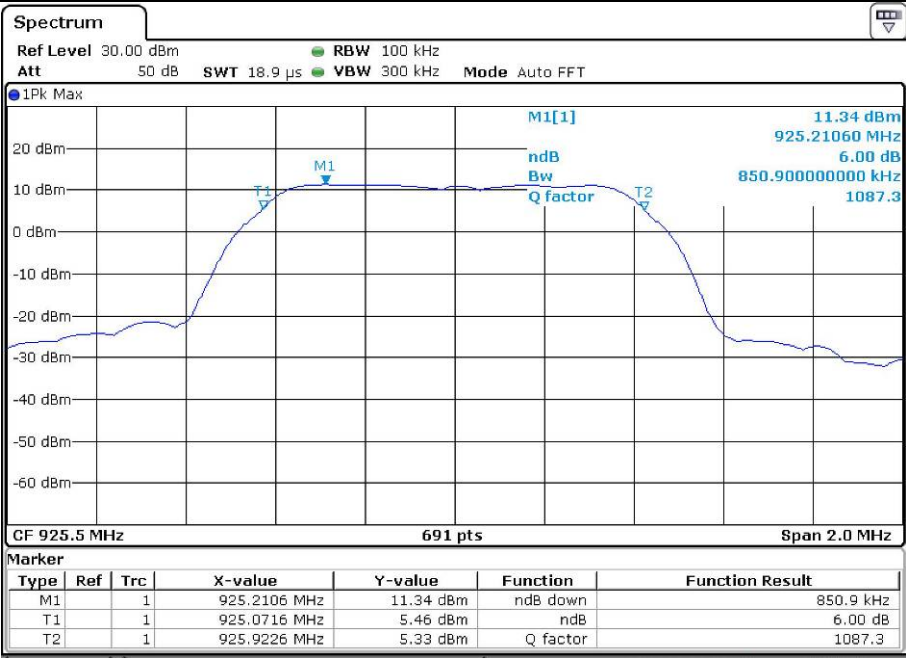
Port under test	Antenna port	
Test method applied	☒	Conducted measurement
	☐	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1-3	
Remark	---	

Results for 1M

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
1M	1	902.5	0.854	100/300	>500	Pass
	11	912.5	0.854		>500	Pass
	24	925.5	0.851		>500	Pass

6dB Occupied Bandwidth

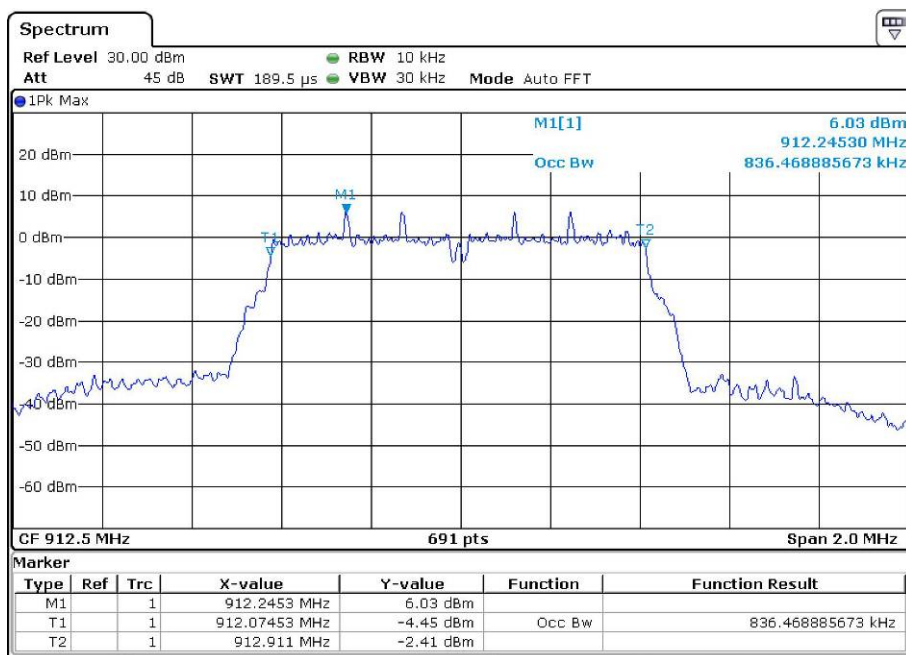
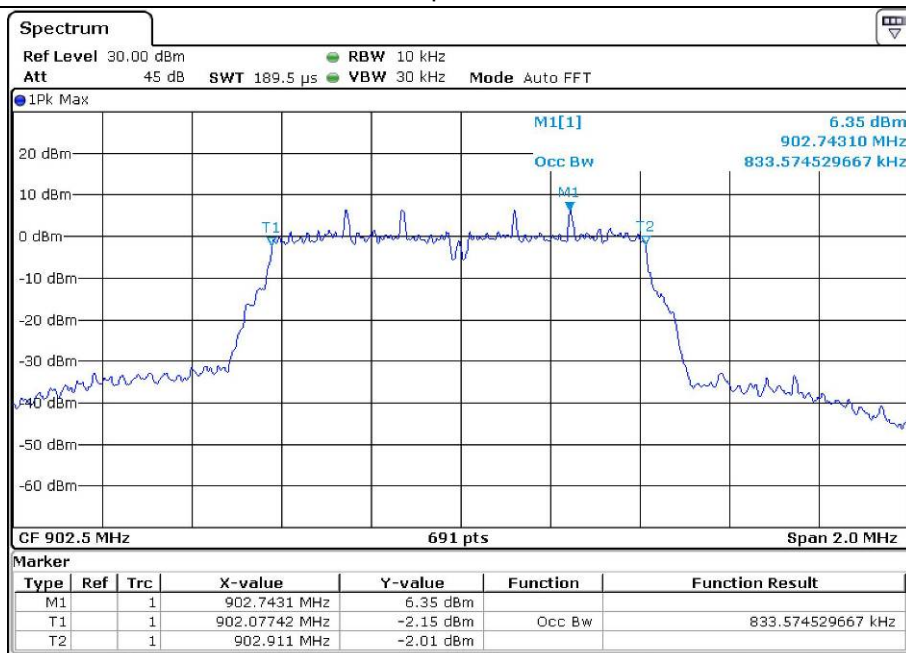


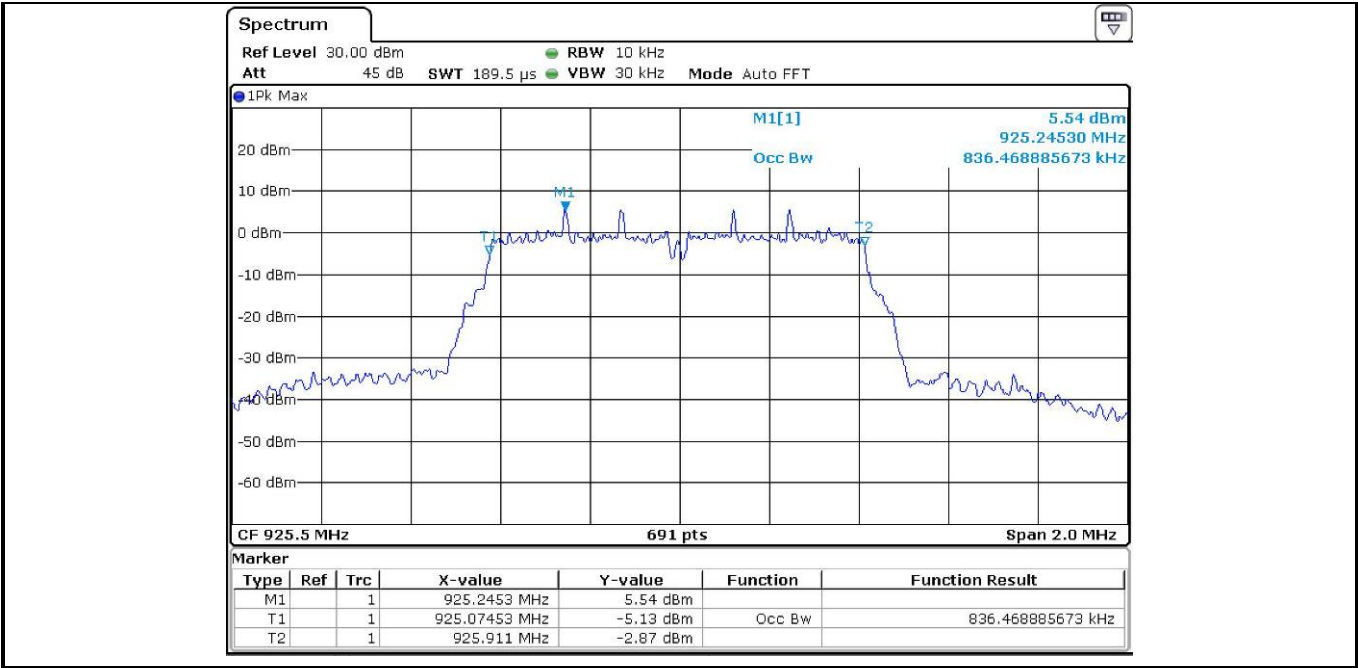


Results for 1M

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	RBW(kHz)/VBW(kHz)	Limit	Result
1M	1	902.5	0.834	10/30	Within frequency range	Pass
	11	912.5	0.836		Within frequency range	Pass
	24	925.5	0.836		Within frequency range	Pass

99% Occupied Bandwidth

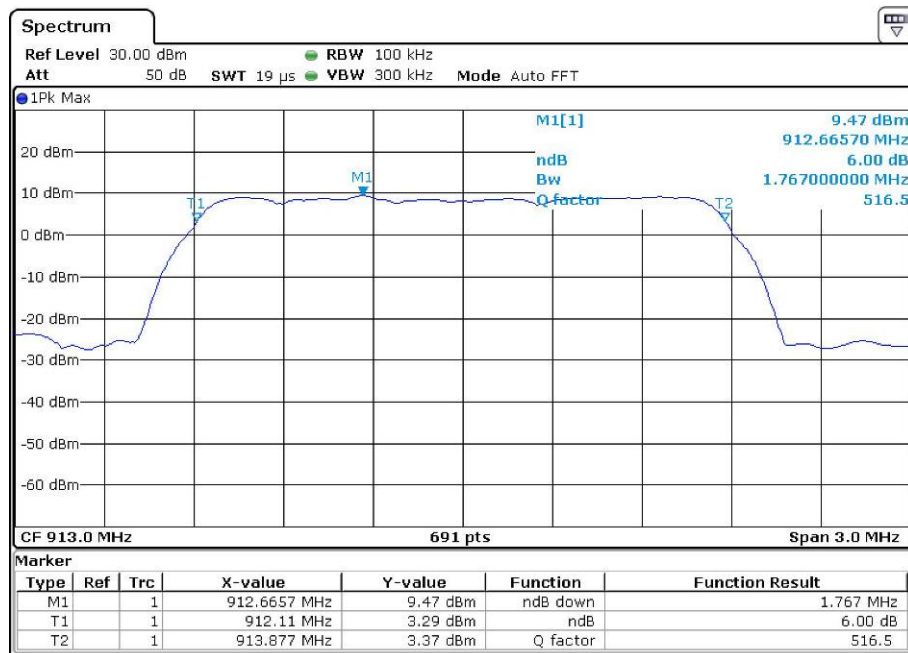
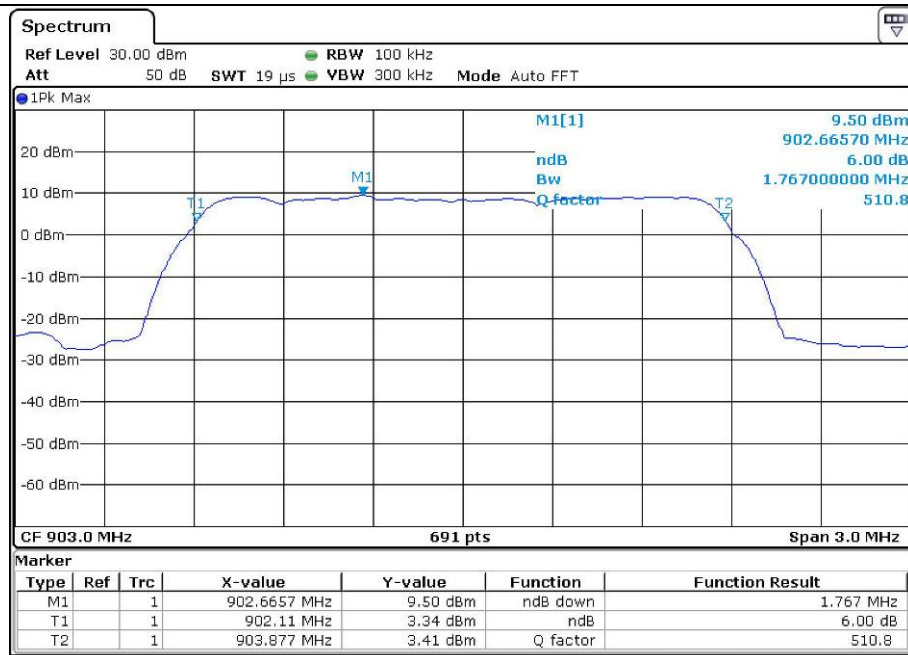


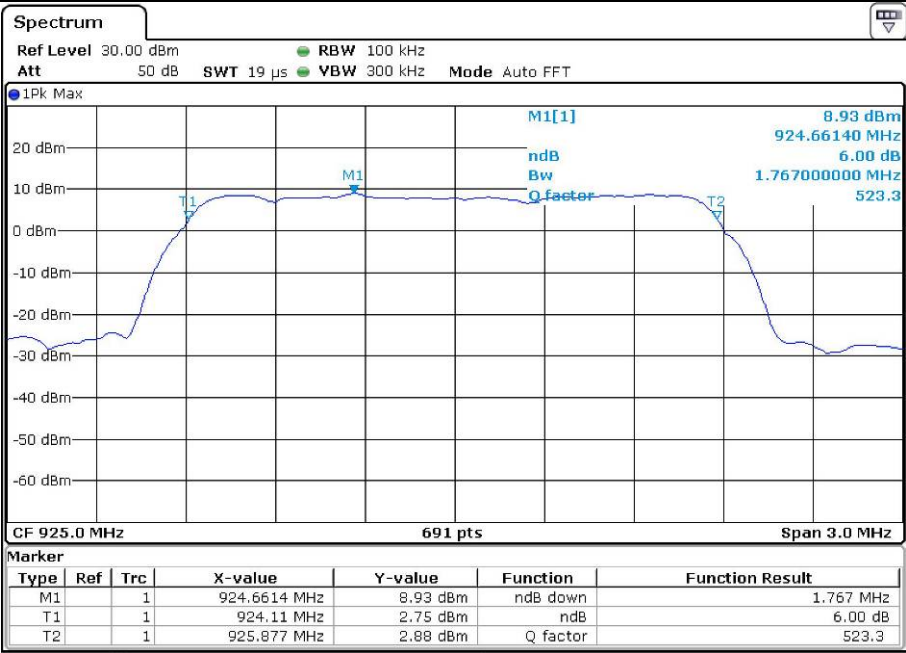


Results for 2M

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
2M	1	903	1.767	100/300	>500	Pass
	6	913	1.767		>500	Pass
	12	925	1.767		>500	Pass

6dB Occupied Bandwidth

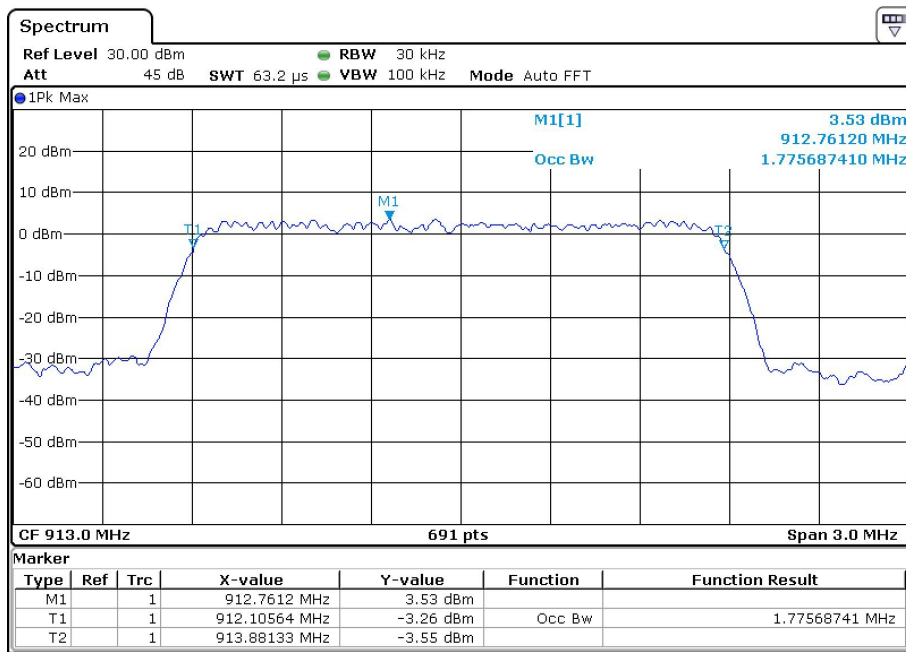
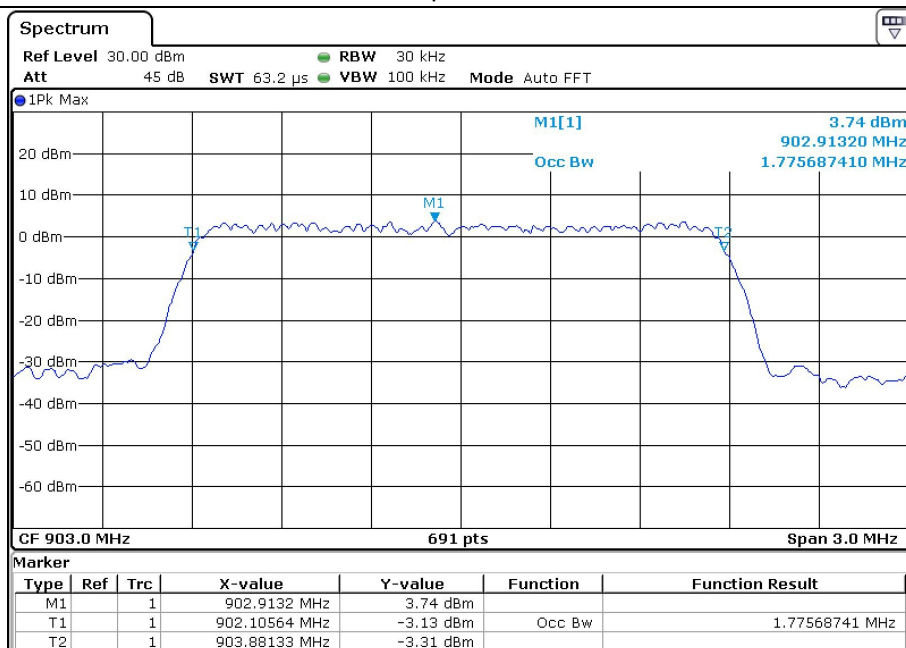


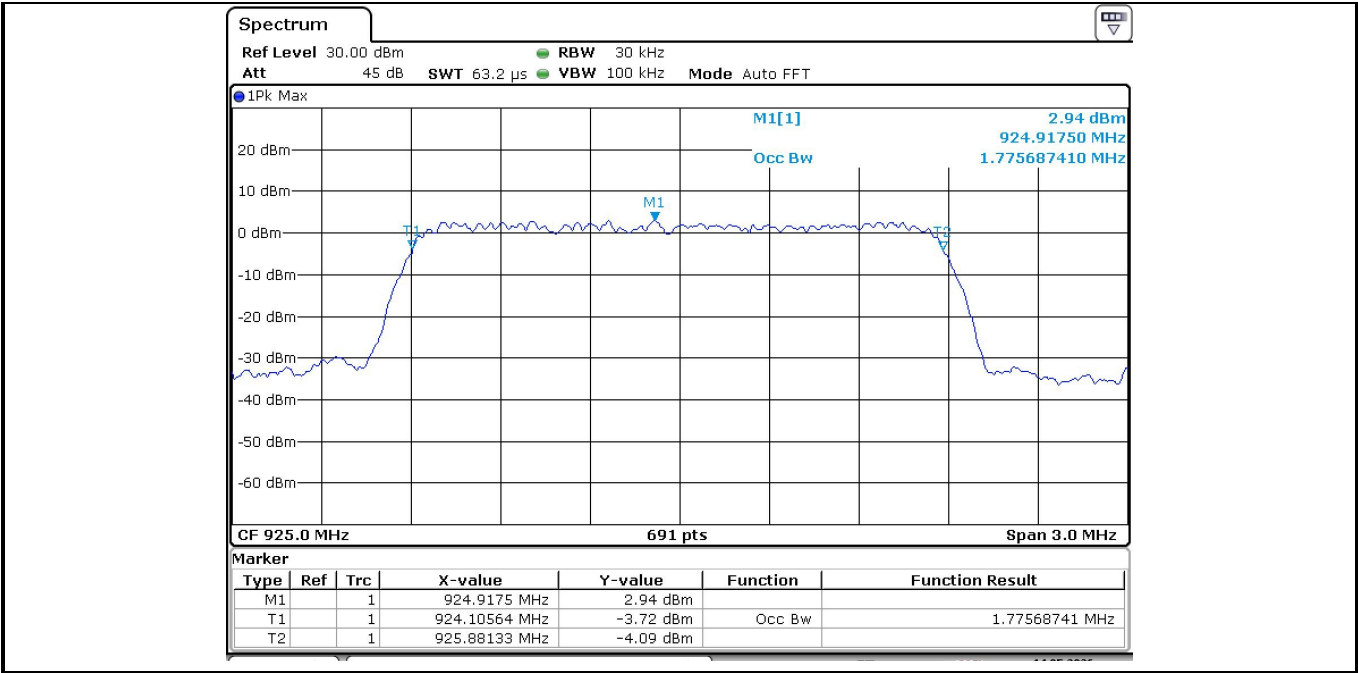


Results for 2M

Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	RBW(kHz)/VBW(kHz)	Limit	Result
2M	1	903	1.776	30/100	Within frequency range	Pass
	6	913	1.776		Within frequency range	Pass
	12	925	1.776		Within frequency range	Pass

99% Occupied Bandwidth





Results for 4M

Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth(MHz)	RBW(kHz)/VBW(kHz)	Limit (kHz)	Result
4M	1	906	3.621	100/300	>500	Pass
	3	914	3.621		>500	Pass
	6	926	3.621		>500	Pass

6dB Occupied Bandwidth

