

2618.396923	53.75	7.5	46.25	V
2662.048461	54.68	7.8	46.88	V

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GFSK Ch78 1GHz-3GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
2526.953846	41.76	6.8	34.96	Н
2662.048461	42.6	7.8	34.8	V

GFSK Ch78 3GHz-18GHz (Peak)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
12878.3308	52.46	16.9	35.56	V
13846.7208	53.6	18.5	35.1	Н
14758.57073	54.94	20.8	34.14	Н
15410.31067	55.82	22.7	33.12	V
16005.2648	59.4	25.4	34	V
16756.3598	58.93	26.6	32.33	V

GFSK Ch78 3GHz-18GHz (Average)

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	PMea(dBuV/m)	Polarity
14758.57073	42.71	20.8	21.91	Н
15410.31067	43.94	22.7	21.24	V
16005.2648	47.3	25.4	21.9	V
16756.3598	47.13	26.6	20.53	V

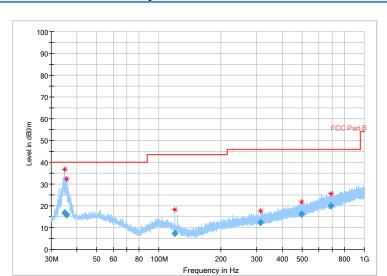
Note: Only the worst case is written in the report.

Conclusion: PASS
Test graphs as below:

Main supply

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Fig.40 Radiated emission: GFSK, Ch78, 30MHz~1GHz

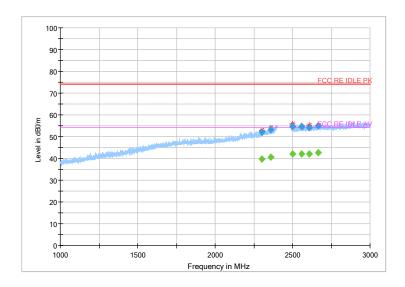
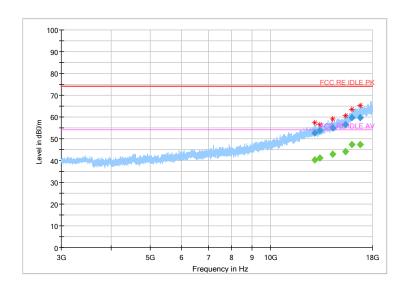


Fig.41 Radiated emission: GFSK, Ch78, 1GHz~3GHz



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Fig.42 Radiated emission: GFSK, Ch78, 3GHz~18GHz

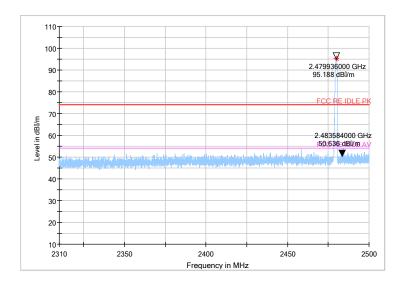


Fig.43 Radiated emission (Power): GFSK, low channel

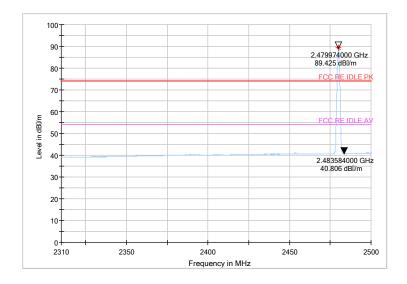
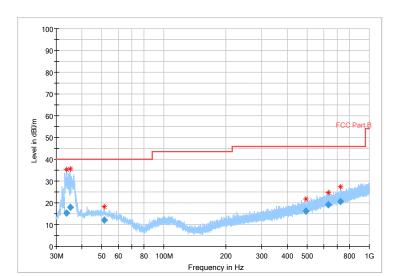


Fig.44 Radiated emission (Power): GFSK, high channel





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Fig.45 Radiated emission: π/4 DQPSK, Ch78, 30MHz~1GHz

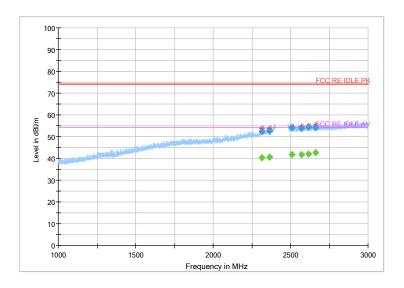
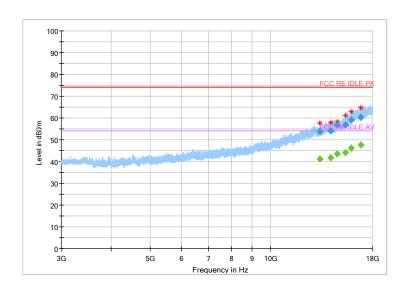


Fig.46 Radiated emission: π/4 DQPSK, Ch78, 1GHz~3GHz



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Fig.47 Radiated emission: π/4 DQPSK, Ch78, 3GHz~18GHz

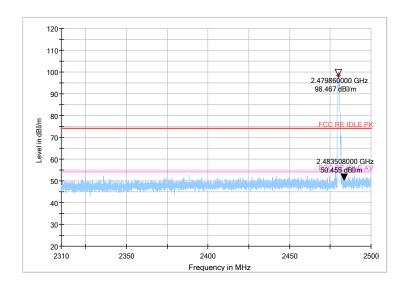


Fig.48 Radiated emission (Power): π/4 DQPSK, low channel

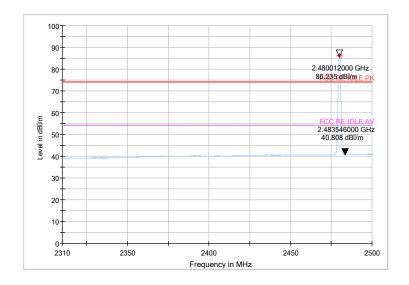


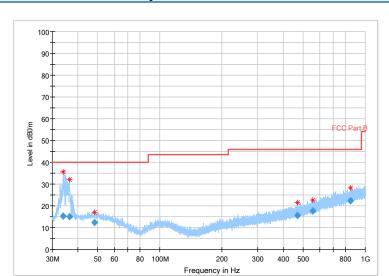
Fig.49 Radiated emission (Power): $\pi/4$ DQPSK, high channel

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Fig.50 Radiated emission: 8DPSK, Ch78, 30MHz~1GHz

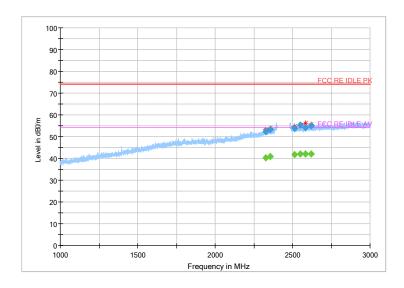
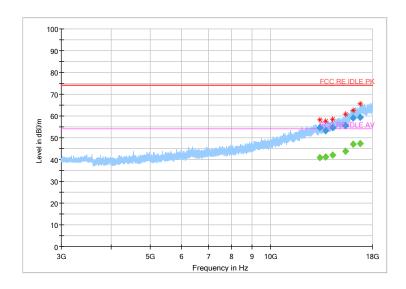


Fig.51 Radiated emission: 8DPSK, Ch78, 1GHz~3GHz



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Fig.52 Radiated emission: 8DPSK, Ch78, 3GHz~18GHz

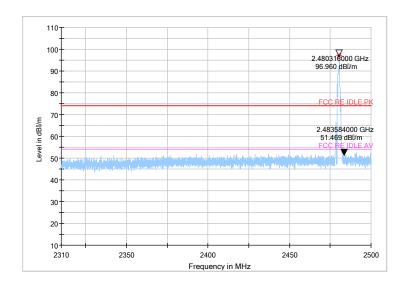


Fig.53 Radiated emission (Power): 8DPSK, low channel

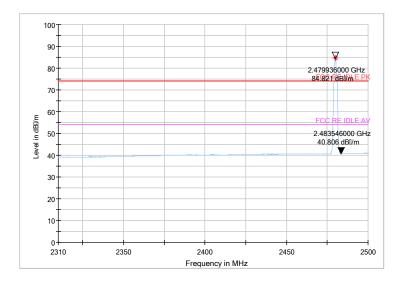
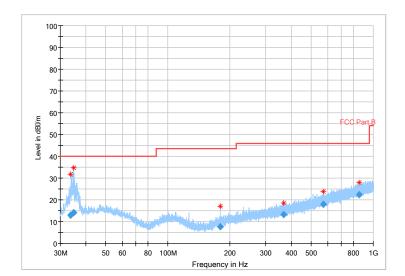


Fig.54 Radiated emission (Power): 8DPSK, high channel **Secondary supply**





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Fig.55 Radiated emission: GFSK, Ch78, 30MHz~1GHz

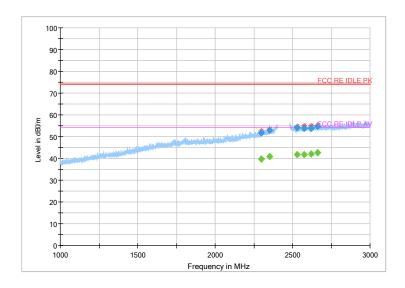
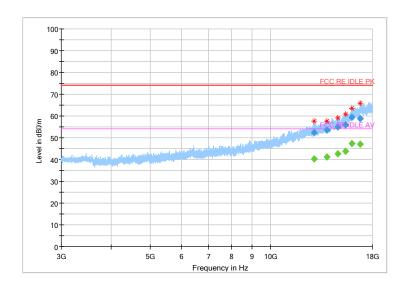


Fig.56 Radiated emission: GFSK, Ch78, 1GHz~3GHz



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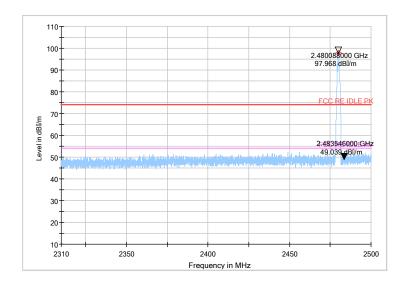


Fig.58 Radiated emission (Power): GFSK, low channel

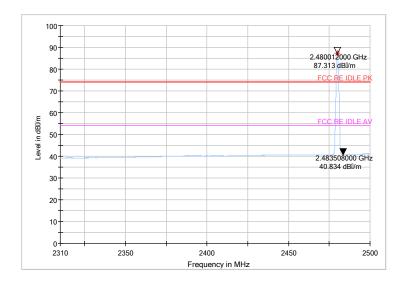
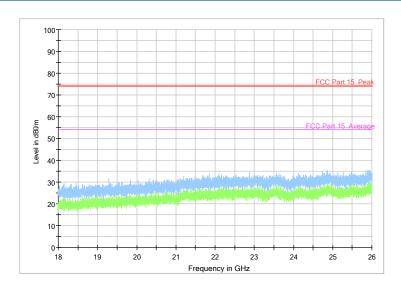


Fig.59 Radiated emission (Power): GFSK, high channel





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ALL Channel 18GHz~26GHz

6.5. Time Of Occupancy (Dwell Time)

6.5.1 Measurement Limit:

Standard	Limit (ms)
FCC 47CFR Part 15.247 (a) (1) (iii)	< 400

6.5.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.4

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit maximum power.
- 3. Set the spectrum analyzer as step 4 to step 8.
- 4. Span: Zero span, centered on a hopping channel.
- 5. RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.
- 6. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to showtwo successive hops on a channel.
- 7. Detector function: Peak.
- 8. Trace: Max hold.
- 9. Use the marker-delta function, and record it.

6.5.3 Measurement Result



For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
	DU1	Fig.55	33.09	Р
	DH1	Fig.56		
20	39 DH3	Fig.57	- 194.21	Р
39		Fig.58		
	DHE	Fig.59	272.60	D
DH5	Fig.60	273.60	Р	

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For $\pi/4$ DQPSK

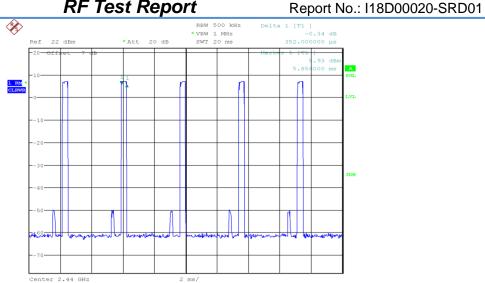
Channel	Packet	Dwell Time (ms)		Conclusion
	2014	Fig.61	- 64.51	Р
	2DH1	Fig.62		
20	20112	Fig.63	197.47	Р
39	2DH3	Fig.64		
	20115	Fig.65	264.06	D
2DH5	Fig.66	264.96	Р	

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
	2DU1	Fig.67	- 59.14	Р
	3DH1	Fig.68		
39	2DU2	Fig.69	200.74	Р
39	3DH3	Fig.70		
3DH5	Fig.71	267.94	Р	
	Fig.72	- 267.84	۲	

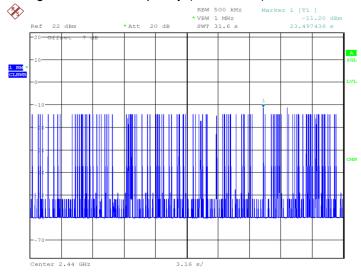
Conclusion: PASS
Test graphs as below:

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Date: 1.JAN.2003 00:56:00

Fig.55 Time of occupancy (Dwell Time): Ch39, Packet DH1

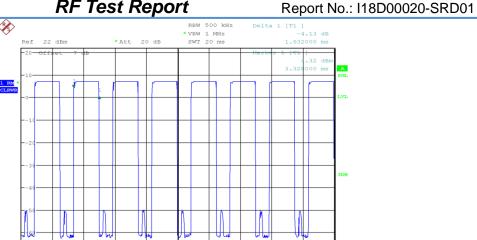


IF Overload Date: 1.JAN.2003 00:56:59

Fig.56 Number of Transmissions Measurement: Ch39, Packet DH1

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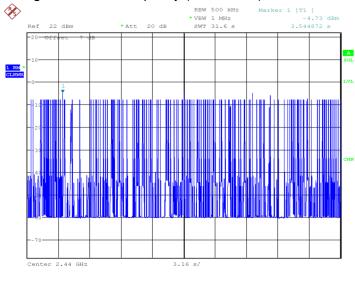
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Date: 1.JAN.2003 00:44:40

Center 2.44 GHz

Fig.57 Time of occupancy (Dwell Time): Ch39, Packet DH3



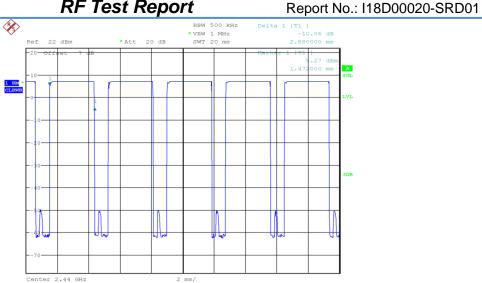
IF Overload Date: 1.JAN.2003 00:45:40

Fig.58 Number of Transmissions Measurement: Ch39, Packet DH3

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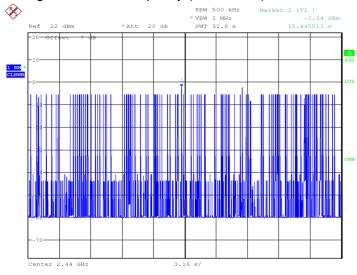
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Date: 1.JAN.2003 00:50:00

Fig.59 Time of occupancy (Dwell Time): Ch39, Packet DH5



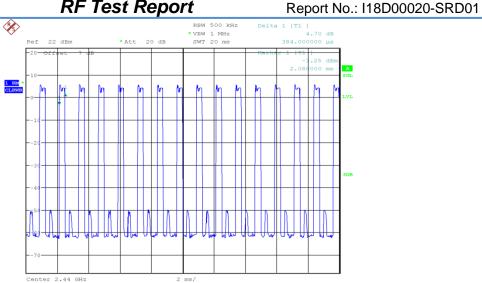
IF Overload Date: 1.JAN.2003 00:51:00

Fig.60 Number of Transmissions Measurement: Ch39, Packet DH5

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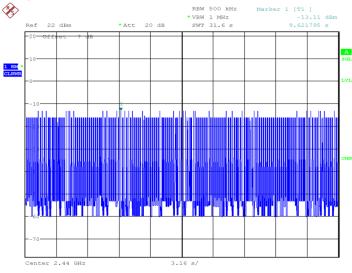
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Date: 1.JAN.2003 00:57:25

Fig.61 Time of occupancy (Dwell Time): Ch39, Packet 2-DH1



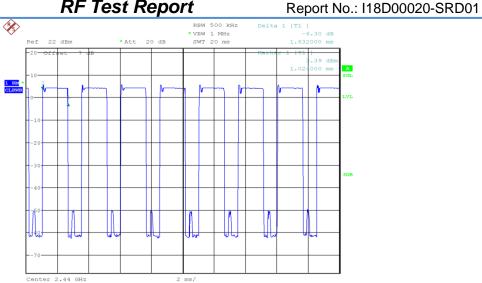
IF Overload Date: 1.JAN.2003 00:58:25

Fig.62 Number of Transmissions Measurement: Ch39, Packet 2-DH1

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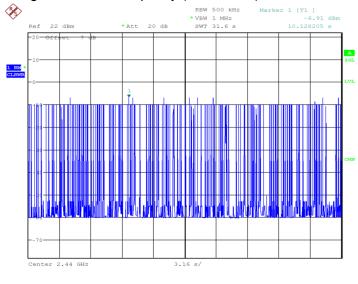
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Date: 1.JAN.2003 00:46:06

Fig.63 Time of occupancy (Dwell Time): Ch39, Packet 2-DH3



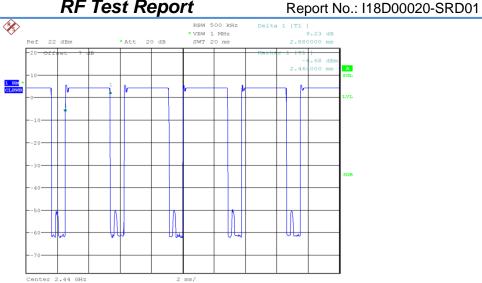
IF Overload Date: 1.JAN.2003 00:47:05

Fig.64 Number of Transmissions Measurement: Ch39, Packet 2-DH3

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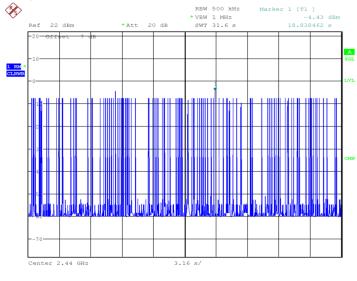
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Date: 1.JAN.2003 00:51:26

Fig.65 Time of occupancy (Dwell Time): Ch39, Packet 2-DH5



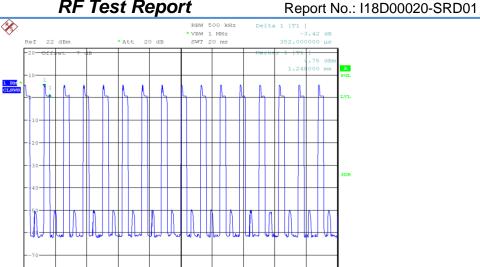
IF Overload Date: 1.JAN.2003 00:52:25

Fig.66 Number of Transmissions Measurement: Ch39, Packet 2-DH5

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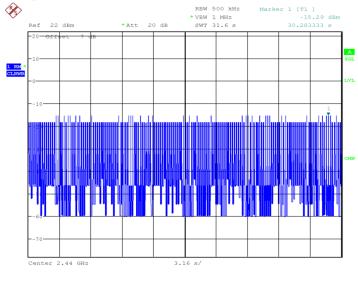
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Date: 1.JAN.2003 00:58:51

Center 2.44 GHz

Fig.67 Time of occupancy (Dwell Time): Ch39,Packet 3-DH1



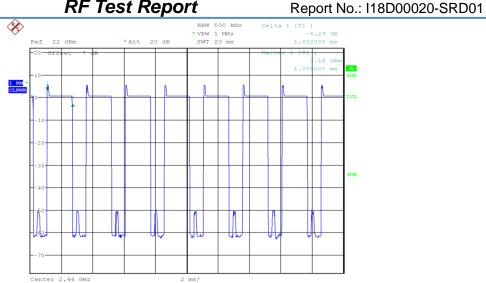
IF Overload Date: 1.JAN.2003 00:59:50

Fig.68 Number of Transmissions Measurement: Ch39, Packet 3-DH1

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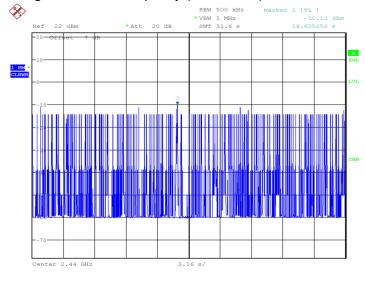
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Date: 1.JAN.2003 00:47:31

Fig.69 Time of occupancy (Dwell Time): Ch39, Packet 3-DH3



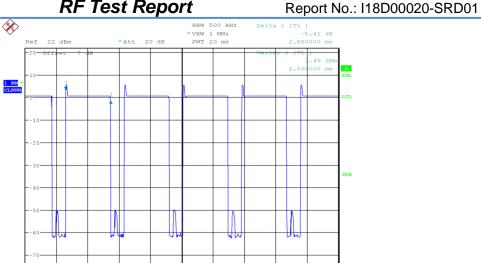
IF Overload Date: 1.JAN.2003 00:48:30

Fig.70 Number of Transmissions Measurement: Ch39, Packet 3-DH3

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Date: 1.JAN.2003 00:52:51

Center 2.44 GHz

Fig.71 Time of occupancy (Dwell Time): Ch39, Packet 3-DH5

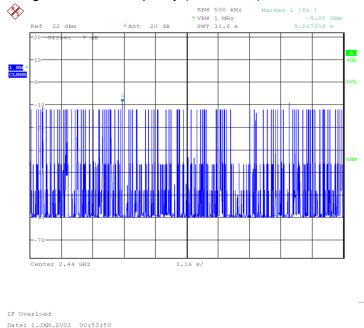


Fig.72 Number of Transmissions Measurement: Ch39, Packet 3-DH5

6.6. 20dB Bandwidth

6.6.1 Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247 (a) (1)	N/A

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6.6.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.7

1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.

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- 2. Enable the EUT transmit maximum power.
- 3. Set the spectrum analyzer as step 4 to step 7.
- 4. Span: two or five times of OBW
- 5. RBW= 1% to 5% of the OBW; VBW is approximately three times of RBW; Max Hold.
- 6. Select the max peak, and N DB DOWN=20dB.
- 7. Record the results.

Measurement Result:

For GFSK

Channel	20dB Band	Conclusion	
0	Fig.73	1.029	Р
39	Fig.74	1.034	Р
78	Fig.75	1.029	Р

For π/4 DQPSK

Channel	20dB Band	Conclusion	
0	Fig.76	1.091	Р
39	Fig.77	1.087	Р
78	Fig.78	1.087	Р

For 8DPSK

Channel	20dB Band	Conclusion	
0	Fig.79	1.188	Р
39	Fig.80	1.192	Р
78	Fig.81	1.188	Р

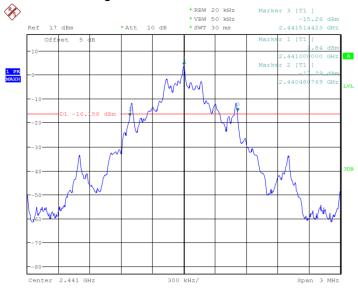
Conclusion: PASS
Test graphs as below:

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Date: 2.FEB.2018 15:43:37

Fig.73 20dB Bandwidth: GFSK, Ch0



Date: 2.FEB.2018 15:43:54

Fig.74 20dB Bandwidth: GFSK, Ch39

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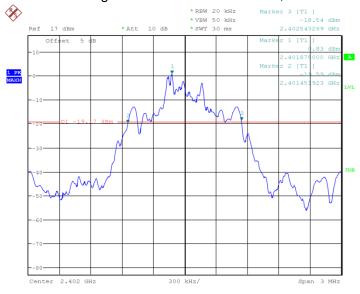
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Date: 2.FEB.2018 15:44:10

Fig.75 20dB Bandwidth: GFSK, Ch78



Date: 2.FEB.2018 15:44:27

Fig.76 20dB Bandwidth: $\pi/4$ DQPSK, Ch0

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Date: 2.FEB.2018 15:44:43

Fig.77 20dB Bandwidth: $\pi/4$ DQPSK, Ch39



Date: 2.FEB.2018 15:45:00

Fig.78 20dB Bandwidth: $\pi/4$ DQPSK, Ch78

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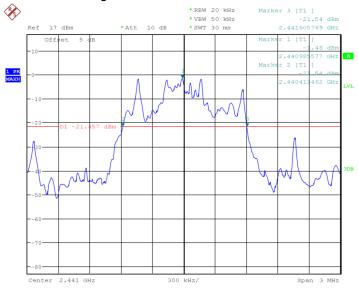
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Date: 2.FEB.2018 15:45:16

Fig.79 20dB Bandwidth: 8DPSK, Ch0



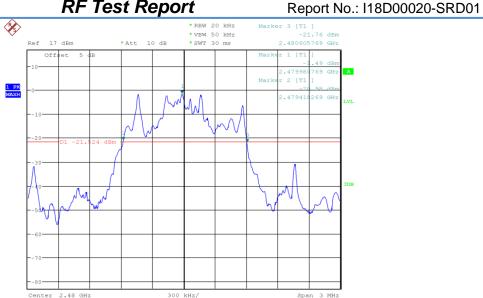
Date: 2.FEB.2018 15:45:33

Fig.80 20dB Bandwidth: 8DPSK, Ch39

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Date: 2.FEB.2018 15:45:50

Fig.81 20dB Bandwidth: 8DPSK, Ch78

6.7. Carrier Frequency Separation

6.7.1 Measurement Limit:

Standard	Limit (KHz)		
FCC 47 CFR Part 15.247 (a) (1)	Over 25KHz or (2/3)*20dB bandwidth		

6.7.2 Test procedures

The measurement is according to ANSI C63.10 clause 7.8.2.

- Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit in hopping mode.
- 3. Span: Wide enough to capture the peaks of two adjacent channels.
- 4. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 5. Video (or average) bandwidth (VBW) ≥ RBW.
- 6. Sweep: Auto.
- Detector function: Peak.
- 8. Trace: Max hold.
- Allow the trace to stabilize.

6.7.3 Measurement Result:

For GFSK

Channel	Carrier separation (KHz)	Conclusion
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	•		
39	Fig.82	1024.0385	Р

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For π/4 DQPSK

Channel	Carrier sepa	Conclusion	
39	Fig.83	1000	Р

For 8DPSK

Channel	Carrier sepa	Conclusion	
39	Fig.84	990.3846	Р

Conclusion: PASS Test graphs as below:

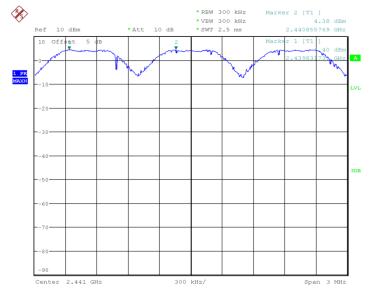
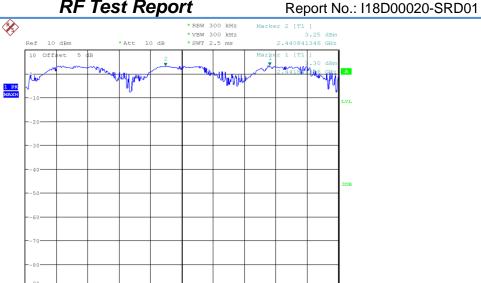


Fig.82 Carrier separation measurement: GFSK, Ch39

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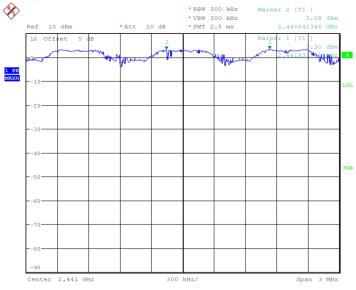
Date: 2.FEB.2018 15:47:36

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Date: 2.FEB.2018 15:48:49

Fig.83 Carrier separation measurement: π/4 DQPSK, Ch39



Date: 2.FEB.2018 15:50:03

Fig.84 Carrier separation measurement: 8DPSK, Ch39

6.8. Number Of Hopping Channels

6.8.1 Measurement Limit:

Standard	Limit			
FCC 47 CFR Part 15.247 (a)(1)(iii)	At least 15 non-overlapping channels			

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6.8.2 Test procedure

The measurement is according to ANSI C63.10 clause 7.8.3.

- 1. Connect the EUT through cable and divide with CBT32 and spectrum analyzer.
- 2. Enable the EUT transmit in hopping mode.
- 3. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

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- 4. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 5. VBW \geq RBW.
- 6. Sweep: Auto.
- 7. Detector function: Peak.
- 8. Trace: Max hold.
- 9. Allow the trace to stabilize.
- 10. Record the test rsults.

6.8.3 Measurement Result:

For GFSK

Channel	Number of hop	Conclusion	
0~39	Fig.85	70	Р
40~78	Fig.86	79	Р

For π/4 DQPSK

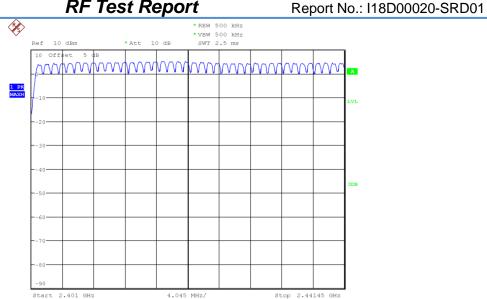
Channel	Number of hop	Conclusion	
0~39	Fig.87	70	Р
40~78	Fig.88	79	Р

For 8DPSK

Channel	Channel Number of hopping channels				
0~39	Fig.89	70	Р		
40~78	Fig.90	79	Р		

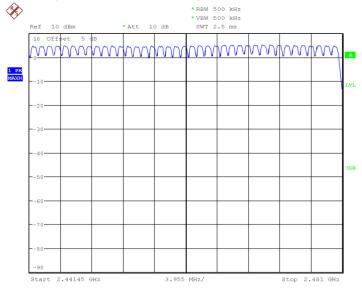
Conclusion: PASS
Test graphs as below:

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Date: 2.FEB.2018 15:52:40

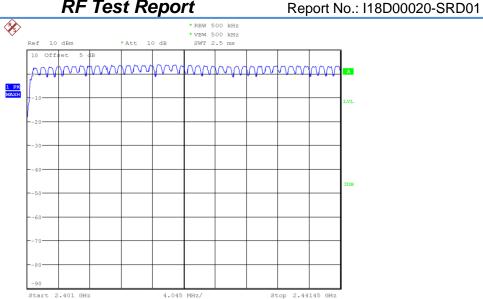
Fig.85 Number of hopping frequency: GFSK, Ch0~39



Date: 2.FEB.2018 15:54:45

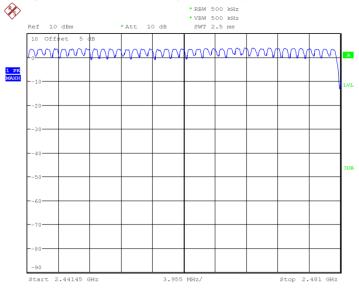
Fig.86 Number of hopping frequency: GFSK, Ch40~78

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Date: 2.FEB.2018 15:56:50

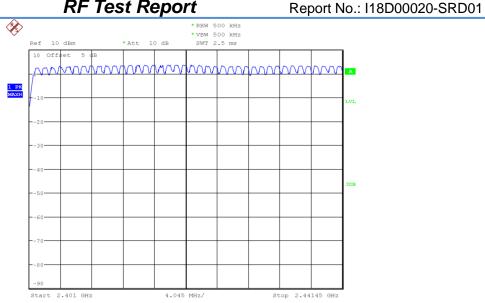
Fig.87 Number of hopping frequency: $\pi/4$ DQPSK, Ch0~39



Date: 2.FEB.2018 15:58:55

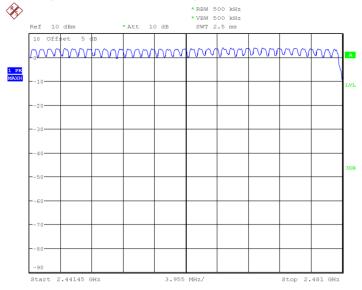
Fig.88 Number of hopping frequency: $\pi/4$ DQPSK, Ch40~78

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Date: 2.FEB.2018 16:01:00

Fig.89 Number of hopping frequency: 8DPSK, Ch0~39



Date: 2.FEB.2018 16:03:05

Fig.90 Number of hopping frequency: 8DPSK, Ch40~78

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6.9. AC Powerline Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.

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- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.36 Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or

Test Condition:

Voltage (V)	Frequency (Hz)	
120	60	

photograph the test setup that was used. See Clause 8 for full reporting requirements.

Measurement Result and limit:

(Quasi-peak-average Limit)

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Frequency range (MHz)	Quasi-peak Limit (dB _µ V)	Average Limit (dBμV)	Result (dBμV) With charger	Conclusion
			ВТ	
0.15 to 0.5	66 to 56	56 to 46		
0.5 to 5	56	46	Fig.91	Р
5 to 30	60	50		

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NOTE: The limit decreases linearly with the logarithm of the frequency in the range $0.15\,\mathrm{MHz}$ to $0.5\,\mathrm{MHz}$.

Conclusion: Pass

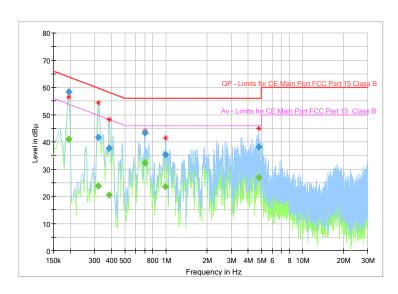


Fig.91 AC Powerline Conducted Emission

		<u> </u>							
Frequency	QuasiPeak	Average	Limit	Margin	Meas.	Bandwidth	Line	Filter	Corr.
(MHz)	(dB μ V)	(dB μ V)	(dB μ	(dB)	Time	(kHz)			(dB)
0.194775		41.02	53.83	12.81	1000.0	9.000	N	ON	9.6
0.194775	58.34		63.83	5.49	1000.0	9.000	N	ON	9.6
0.317906	41.75		59.76	18.01	1000.0	9.000	L1	ON	9.6
0.317906		23.87	49.76	25.89	1000.0	9.000	L1	ON	9.6
0.385069	37.61	-	58.17	20.56	1000.0	9.000	N	ON	9.7
0.385069	-	20.49	48.17	27.68	1000.0	9.000	N	ON	9.7
0.698494	43.22		56.00	12.78	1000.0	9.000	L1	ON	9.7
0.698494		32.15	46.00	13.85	1000.0	9.000	L1	ON	9.7
0.993262	35.31		56.00	20.69	1000.0	9.000	L1	ON	9.7
0.993262		23.56	46.00	22.44	1000.0	9.000	L1	ON	9.7
4.769288		26.77	46.00	19.23	1000.0	9.000	N	ON	9.7
4.769288	38.02		56.00	17.98	1000.0	9.000	N	ON	9.7

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The test equipments and ancillaries used are as follows.

Conducted test system

No.	Equipmen	Model	Serial	Manufactur	Calibration	Cal.interval
	t		Number	er	date	Cal.iiilei vai
1	Vector	FSQ26	101096	Rohde&Sch	2017-05-11	1 Year
	Signal	1 3 0 2 0		warz		
2	DC Power	ZUP60-14	LOC-220Z0	TDL-Lambd	2017-05-11	1 Year
	Supply	20700-14	06	а		
3	Bluetooth	CBT32	100785	Rohde&Sch	2017-05-11	1 Year
	Tester	CD132		warz		

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Radiated emission test system

No.	Equipment	Model	Serial Number	Manufactu rer	Calibration date	Cal.interval
1	Universal Radio Communication Tester	CMU20 0	123123	R&S	2017-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2017-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9 163	VULB916 3-515	Schwarzbe ck	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-31 17	0013589 0	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV21 6	101380	R&S	2017-05-11	1 Year

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Anechoic chamber

Fully anechoic chamber by Frankonia German.

8. Test Environment

Shielding Room1 (6.0 meters × 3.0 meters × 2.7 meters) did not exceed following limits along the conducted RF performance testing:

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Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. = 20 %, Max. = 75 %	
Shielding effectiveness	> 100 dB	
Ground system resistance	< 0.5 Ω	

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C	
Relative humidity	Min. =30 %, Max. = 60 %	
Shielding effectiveness	> 100 dB	
Electrical insulation	> 10 kΩ	
Ground system resistance	< 0.5 Ω	

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. = 25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz



ANNEX A. Deviations from Prescribed Test Methods

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No deviation from Prescribed Test Methods.

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ANNEX B. Accreditation Certificate



Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS

Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of March 2017.

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President and CEO For the Accreditation Council Certificate Number 3682.01 Valid to February 28, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

*******END OF REPORT*******

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