

Test & Certification Center (TCC) - Dallas
DTX-1276-EN-1.0

Test Report #: WR-960.103
7-Apr-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 2.0

Bluetooth Test Report

Test Report Number: WR-960.103

Terminal device:

FCC ID: QMNRM-120 Model: 6175i Type: RM-120 HW: 3002 SW: MR100_b01.nep
(Detailed information is listed in section 4).

Originator: Cindy Trinh
Function: TCC - Dallas – EMC
Version/Status: Approved
Location: TCC Directories
Date: 7-Apr-06

Change History:

Version	Date	Status	Handled By	Comments
0.1	28-Mar-06	Draft	Cindy Trinh	
0.2	28-Mar-06	Proposal	Cindy Trinh	
0.3	28-Mar-06	Review	Jesse Torres	
1.0	31-Mar-06	Approved	Jesse Torres	
2.0	7-Apr-06	Approved	Jesse Torres	

Testing laboratory:

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Date and signatures:

7-Apr-06

For the contents:

Cindy Trinh
Test Engineer

Jesse Torres
Technical Review

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1. GENERAL

1.1 Quality System

The quality system in place for TCC-Dallas conforms to ISO/IEC 17025 and has been audited to the standard by A2LA (American Association of Laboratory Accreditation). TCC - Dallas has also been audited using the ISO 9000 Quality System, as part of Nokia Mobile Phones, Inc., by ABS (American Bureau of Shipping) Quality Evaluations Inc.

TCC-Dallas is a recognized laboratory with the Federal Communications Commission in filing applications for Certification under Parts 15 and 18, Registration Number 100060, and Industry Canada, Registration Number IC 661N.

1.2 Objective

All tests and measurement data shown was performed to determine whether the selected handset was in compliance as specified in FCC: CFR47 Parts 15.207 and 15.247.

1.3 Test Summary

Test Results: *The test result relates only to those tested devices mentioned in Section 4 of this test report.*

Test Performed	CFR 47	RSS-210	Section of Report	Complies / Does not comply / Not Tested
Radiated Emissions	15.247 (c)	6.2.2 (o), e1	7	Complies
AC Conducted Emissions	15.247	6.6	8	Complies

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2. STANDARDS BASIS

Testing has been carried out in accordance with:

REF.	Code of the standard	Name of the standard
1	ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.
2	FCC: CFR 47 Part 15	Code of Federal Regulations (CFR) Title 47, Part 15 – Radio Frequency Devices: Subpart B – Unintentional Radiators and Subpart C – Intentional Radiators
3	CISPR 22 / EN55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.
4	ICES-003	Digital Apparatus, Industry Canada
5	RSS-210	Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands)
6	RSS-212	Test Facilities and Test Methods for Radio Equipment, Industry Canada (Provisional)
7	RSP-100	Radio Equipment Certification Procedure

Note: Unless otherwise stated, (by reference to a version number and a publication date), the latest version of the above documents applies.

Deviations:

Not Applicable.

3. LIST OF ABBREVIATIONS, ACRONYMS AND TERMS

3.1 Abbreviations

dB - decibel

dBm - decibels per milliwatt (absolute measurement)

dB μ V - decibel per microvolt

dB μ V/m - decibel of microvolt per meter

GHz - gigahertz or 1000000000 hertz

kHz - kilohertz or 1000 hertz

MHz - megahertz or 1000000 hertz

ms - millisecond or 0.001 second

μ s - microsecond or 0.000001 second

3.2 Acronyms

BT - Bluetooth

EMC - Electromagnetic Compatibility

EMI - Electromagnetic Interference

EUT - Equipment under Test

PRBS - Pseudo Random Bit Sequence

RF - Radio Frequency

3.3 Terms

Base Station Simulator (BSS) - simulates all the necessary signals that a phone would experience while on a live network. There are many types of base station simulators catering for all current protocols, i.e., GSM, AMPS, TDMA, and CDMA.

4. EQUIPMENT-UNDER-TEST (EUT)

The results in this report relate only to the items listed below:

4.1 Description of Tested Device(s):

Test Performed	Mode of Operation	Date of Receipt	Condition of Sample	Item	Identifying Information
FCC Part 15.247(c)	BT	13-Mar-06	Functional	Phone	ESN: 02603563159 FCC ID: QMNRM-120 Type: RM-120 HW: 3002 SW: MR100_b01.nep
FCC Part 15.247(c)	BT	13-Mar-06	N/A	Battery	Type: BL-5C Other: 3.7 Vdc
FCC Part 15.247(c)	BT	13-Mar-06	N/A	Charger	Type: AC-3U
FCC Part 15.247(c)	BT	13-Mar-06	N/A	Headset	Type: HS-9

5. TEST EQUIPMENT LIST

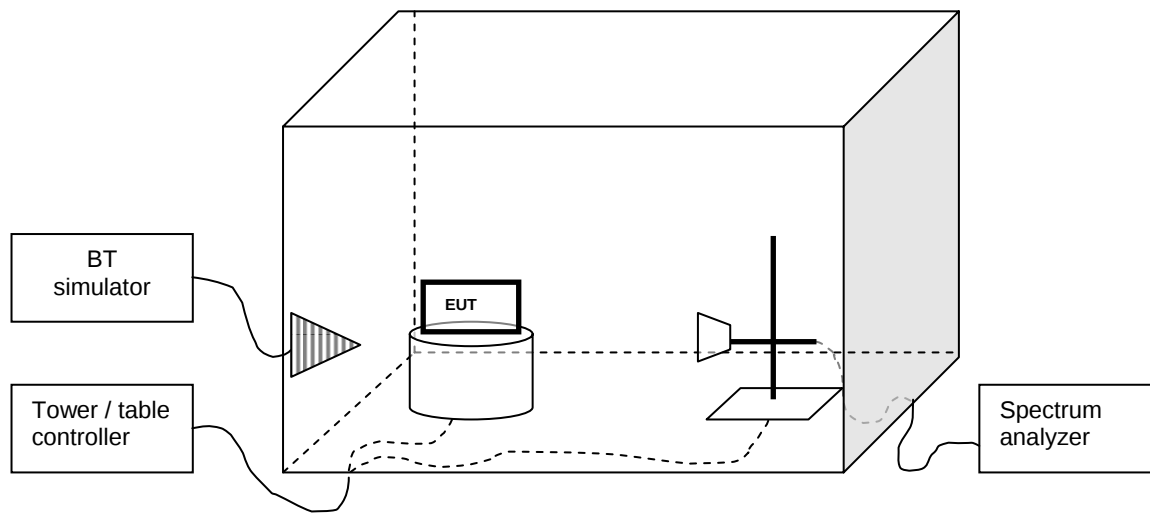
The listing below indicates the test equipment utilized for the test (s). Calibration interval on all items listed can be obtained from the Engineering Services Group within NMP, Product Creation - Dallas. Where relevant, measuring equipment is subjected to in-service checks between testing. TCC - Dallas shall notify clients promptly, in writing, of identification of defective measuring equipment that casts doubt on the validity of results given in this report.

Section of Report	NMP#	Test Equipment	Mfr. #	Model #	Calibration Due Date	Calibration Interval
7	04073	EMI Receiver	R&S	ESIB 26	03-Aug-06	12 months
7	02625	Base Station	R&S	CMU-200	30-Aug-06	12 months
7	02871	Biconilog Antenna	EMC Automation	3003C	08-July-06	12 months
7	04076	Horn Antenna	ETS	3117	18-Aug-06	12 months
7	02836	Turntable and Tower Controller	Sunol	FM2022 & 2846	N/A	N/A
8	00658	LISN	R&S	ESH-S5	07-July-06	12 months
8	02880	Biconilog Antenna	EMC Automation	3003C	23-Sep-06	12 months

6. EUT TEST SETUPS

For each test the EUT was exercised to find out the worst case of operation modes and device configuration.

6.1 EUT test set-up (radiated measurement)



7. RADIATED EMISSIONS

Specification: FCC Part 15.247(c)(1); RSS-210 6.2.2(o), e1

7.1 Setup

Testing was performed in accordance with ANSI C63.4, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

The measurement is made according to FCC rules part 15.247 and IC standard RSS-210 as follows:

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with absorbers on the floor and measuring antenna at fixed height using 2-axis EUT position system.

The Final Measurement is performed in the Semi-Anechoic Chamber with conducting metal floor, if the Preliminary Measurement results are closer than 20 dB to the permissible value.

The EUT is placed at nonconductive plate at the turntable center.

For each suspected frequency, the turntable is rotated 360 degrees and antenna is scanned from 1 to 4 m. This is repeated for both horizontal and vertical receive antenna polarizations.

The emissions less than 20 dB below the permissible value are reported.

The measurement results are obtained as described below:

$$E [\mu V/m] = U_{RX} + A_{TOT}$$

Where U_{RX} is receiver reading and A_{TOT} is total correction factor including cable loss, antenna factor and preamplifier gain ($A_{TOT} = L_{CABLES} + AF - G_{PREAMP}$).

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7.2 Test Results

Test Operator	Cindy Trinh
Date of Measurement	22-Mar-06 to 23-Mar-06
Temperature	24 °C
Humidity	28 to 31 %RH
Test Result	Complies

7.3 EUT operation mode

EUT operation mode	Connected, DH5, Static PRBS
EUT channel	0 (2402 MHz), 40 (2442 MHz), 78 (2480 MHz)
EUT TX power level	Nominal

7.4 Pass/Fail Criteria

Band	Frequency Range (MHz)	FCC Class B Limit (dBµV/m at 3m)	Detector
BT	30 – 88	40	QP
BT	88 – 216	43.5	QP
BT	216 – 960	46	QP
BT	960 – 1000	54	QP
BT	> 1000	74.0/ 54.0	PK/ AV

7.5 Results

Peak (RBW: 1 MHz) Channel 0, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	47.40	234.42	36.60	10.80	HORIZONTAL	PASSED
7206.000000	51.30	367.28	36.20	15.10	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 0, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4804.000000	34.40	52.48	23.60	10.80	VERTICAL	PASSED
7206.000000	37.60	75.86	22.50	15.10	HORIZONTAL	PASSED

Quasi peak (RBW: 120 kHz) Channel 40, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
37.895391	18.30	8.22	37.80	-19.50	VERTICAL	PASSED
274.550100	8.20	2.57	22.60	-14.40	HORIZONTAL	PASSED

Average (RBW: 1 MHz) Channel 40, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2319.942886	38.40	83.18	25.50	12.90	VERTICAL	PASSED
2850.318637	40.70	108.39	24.70	16.00	HORIZONTAL	PASSED
7227.950902	38.00	79.43	22.70	15.30	VERTICAL	PASSED
12647.294589	41.80	123.03	18.20	23.60	VERTICAL	PASSED
14504.000000	43.00	141.25	17.30	25.70	VERTICAL	PASSED
15448.903808	43.60	151.36	17.90	25.70	VERTICAL	PASSED
15715.926854	45.00	177.83	18.60	26.40	VERTICAL	PASSED
16025.558116	44.60	169.82	17.80	26.80	VERTICAL	PASSED
17941.383768	47.00	223.87	16.40	30.60	VERTICAL	PASSED

Peak (RBW: 1 MHz) Channel 78, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	47.20	229.09	36.10	11.10	HORIZONTAL	PASSED
7440.000000	51.10	358.92	35.60	15.50	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 78, GFSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
4960.000000	34.60	53.70	23.50	11.10	VERTICAL	PASSED
7440.000000	38.10	80.35	22.60	15.50	VERTICAL	PASSED

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Peak (RBW: 1 MHz) Channel 0, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	40.30	103.51	29.50	10.80	HORIZONTAL	PASSED
7206.000000	44.80	173.78	29.70	15.10	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 0, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	27.10	22.65	16.30	10.80	VERTICAL	PASSED
7206.000000	31.70	38.46	16.60	15.10	HORIZONTAL	PASSED

Quasi peak (RBW: 120 kHz) Channel 40, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
34.128657	23.60	15.14	41.80	-18.20	VERTICAL	PASSED
38.176353	19.50	9.44	39.10	-19.60	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 40, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
1970.435872	35.80	61.66	26.10	9.70	VERTICAL	PASSED
1970.447896	38.70	86.10	29.00	9.70	HORIZONTAL	PASSED
2321.950902	38.40	83.18	25.40	13.00	VERTICAL	PASSED
2849.946894	40.70	108.39	24.70	16.00	HORIZONTAL	PASSED
7223.950902	32.00	39.81	16.70	15.30	VERTICAL	PASSED
12165.836673	38.70	86.10	16.40	22.30	VERTICAL	PASSED
17981.459920	38.00	79.43	7.40	30.60	VERTICAL	PASSED

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Peak (RBW: 1 MHz) Channel 78, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	40.70	108.39	29.60	11.10	HORIZONTAL	PASSED
7440.000000	44.40	165.96	28.90	15.50	HORIZONTAL	PASSED

Average (RBW: 1 MHz) Channel 78, $\pi/4$ -DQPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	28.10	25.41	17.00	11.10	VERTICAL	PASSED
7440.000000	31.60	38.02	16.10	15.50	HORIZONTAL	PASSED

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Peak (RBW: 1 MHz) Channel 0, 8DPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	39.60	95.50	28.80	10.80	HORIZONTAL	PASSED
7206.000000	44.70	171.79	29.60	15.10	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 0, 8DPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4804.000000	27.00	22.39	16.20	10.80	VERTICAL	PASSED
7206.000000	31.70	38.46	16.60	15.10	HORIZONTAL	PASSED

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Quasi peak (RBW: 120 kHz) Channel 40, 8DPSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
38.095391	14.60	5.37	34.10	-19.50	VERTICAL	PASSED
73.127054	4.10	1.60	25.10	-21.00	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 40, 8DPSK

Frequency [MHz]	E [dBμV/m]	E [μV/m]	U _{RX} [dBμV]	A _{TOT} [dB]	Polarisation	Result
2318.141283	38.20	81.28	25.50	12.70	VERTICAL	PASSED
2829.209419	40.70	108.39	24.80	15.90	VERTICAL	PASSED
7225.450902	37.80	77.62	22.50	15.30	VERTICAL	PASSED
13397.289579	42.20	128.82	16.80	25.40	VERTICAL	PASSED
14499.493988	42.50	133.35	16.90	25.60	VERTICAL	PASSED
15427.355711	43.40	147.91	17.50	25.90	HORIZONTAL	PASSED
15874.755511	44.50	167.88	17.70	26.80	VERTICAL	PASSED
16194.384770	44.40	165.96	17.20	27.20	VERTICAL	PASSED
17948.895792	46.80	218.78	16.20	30.60	HORIZONTAL	PASSED

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Peak (RBW: 1 MHz) Channel 78, 8DPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	41.30	116.14	30.20	11.10	VERTICAL	PASSED
7440.000000	44.90	175.79	29.40	15.50	VERTICAL	PASSED

Average (RBW: 1 MHz) Channel 78, 8DPSK

Frequency [MHz]	E [dB μ V/m]	E [μ V/m]	U _{RX} [dB μ V]	A _{TOT} [dB]	Polarisation	Result
4960.000000	28.10	25.41	17.00	11.10	VERTICAL	PASSED
7440.000000	31.60	38.02	16.10	15.50	HORIZONTAL	PASSED

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8. AC CONDUCTED EMISSIONS

Specification: FCC Part 15.207; RSS-210 6.6

8.1 Setup

Testing was performed in accordance with ANSI C63.4, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9kHz to 40GHz.

8.2 Test Results

Test Operator	Cindy Trinh
Date of Measurement	28-Mar-06, 31-Mar-06
Temperature	22 to 23 °C
Humidity	36 to 41 %RH
Test Result	Complies

8.3 Pass/Fail Criteria

Frequency Range	AC Conducted Emission Limits (CISPR 22)	
	Quasi-peak (dBµV)	Average (dBµV)
0.15MHz - 0.5MHz	66 - 56	56 - 46
0.5MHz - 5MHz -	56	46
5MHz - 30MHz	60	50

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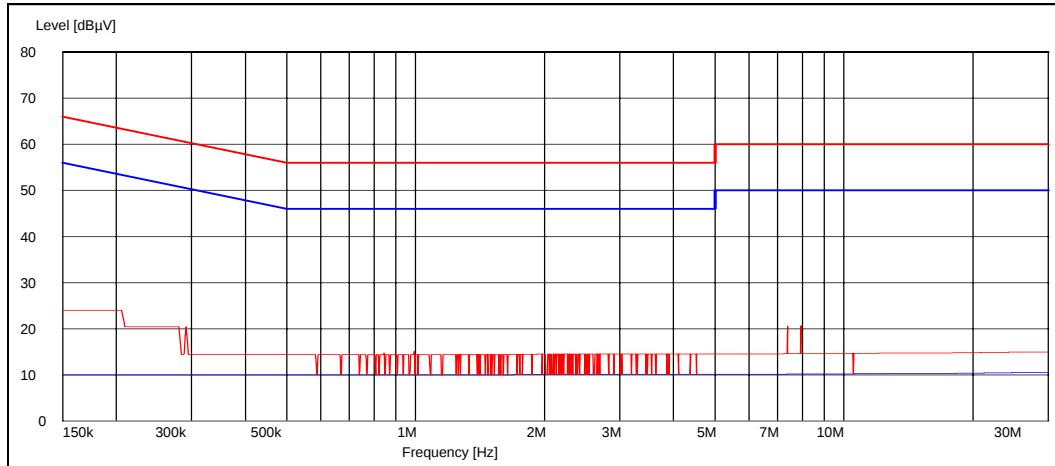
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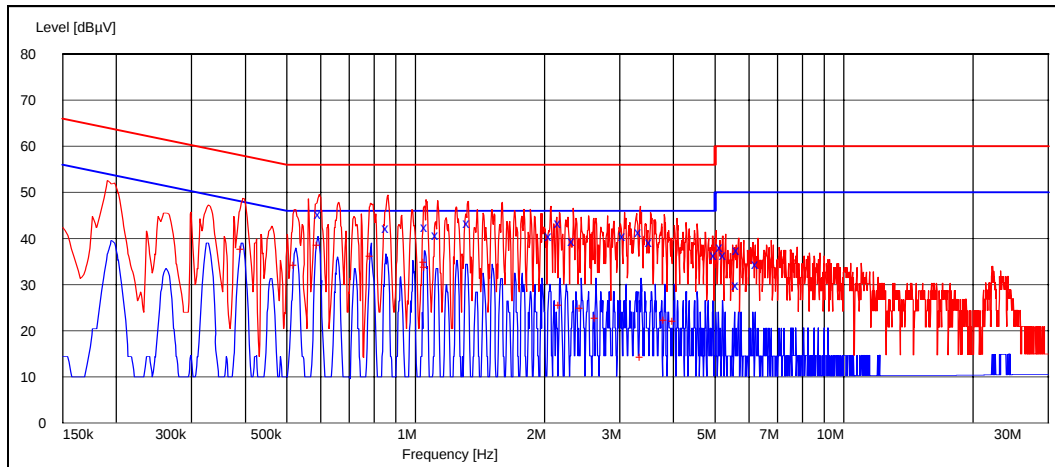
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8.4 Results

Ambient Scan



AC Conducted BT, Mid channel, GFSK



Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBµV]	Line	Result
0.600000	45.30	N	Passed
0.865000	42.30	N	Passed
1.065000	42.50	L1	Passed
1.130000	40.70	L1	Passed
1.335000	43.40	N	Passed
2.075000	40.50	L1	Passed
2.180000	43.40	L1	Passed
2.345000	39.50	L1	Passed
3.085000	40.50	L1	Passed
3.355000	41.40	N	Passed
3.555000	39.30	L1	Passed
5.030000	36.50	N	Passed
5.215000	38.10	L1	Passed
5.295000	36.40	N	Passed
5.680000	30.00	N	Passed
5.685000	37.50	L1	Passed
6.300000	34.40	N	Passed

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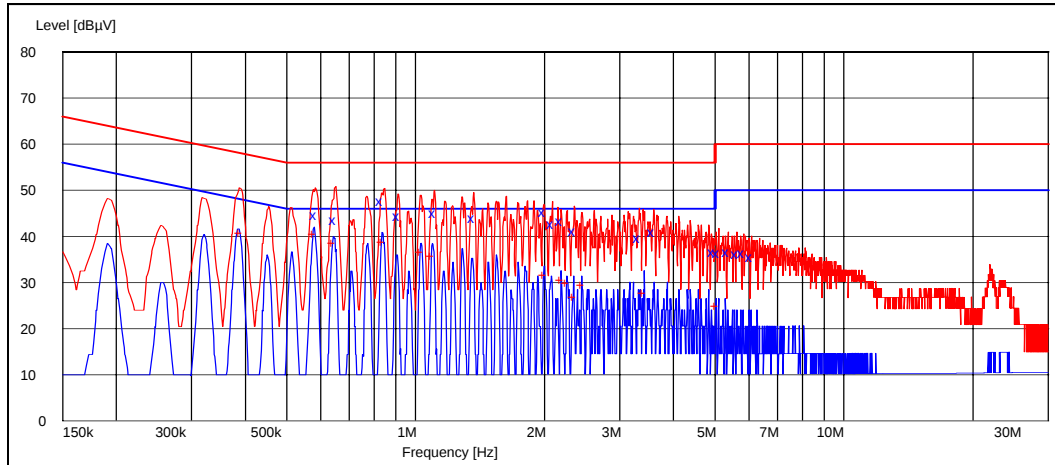
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Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.395000	37.60	L1	Passed
0.525000	34.20	L1	Passed
0.595000	38.60	L1	Passed
0.790000	36.20	L1	Passed
1.055000	34.80	L1	Passed
1.060000	33.80	L1	Passed
2.180000	25.60	L1	Passed
2.450000	24.90	L1	Passed
2.650000	22.80	L1	Passed
3.375000	14.20	N	Passed
3.840000	22.30	L1	Passed
4.030000	22.20	L1	Passed

AC Conducted BT, Mid channel, $\pi/4$ -DQPSK



Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.390000	40.70	L1	Passed
0.580000	40.60	L1	Passed
0.645000	38.50	L1	Passed
0.840000	38.80	L1	Passed
1.030000	36.60	L1	Passed
1.095000	35.80	L1	Passed
2.000000	31.60	L1	Passed
2.195000	30.60	L1	Passed
2.260000	30.00	L1	Passed
2.350000	26.90	N	Passed
2.455000	29.50	L1	Passed
3.420000	27.60	L1	Passed
5.045000	25.00	L1	Passed

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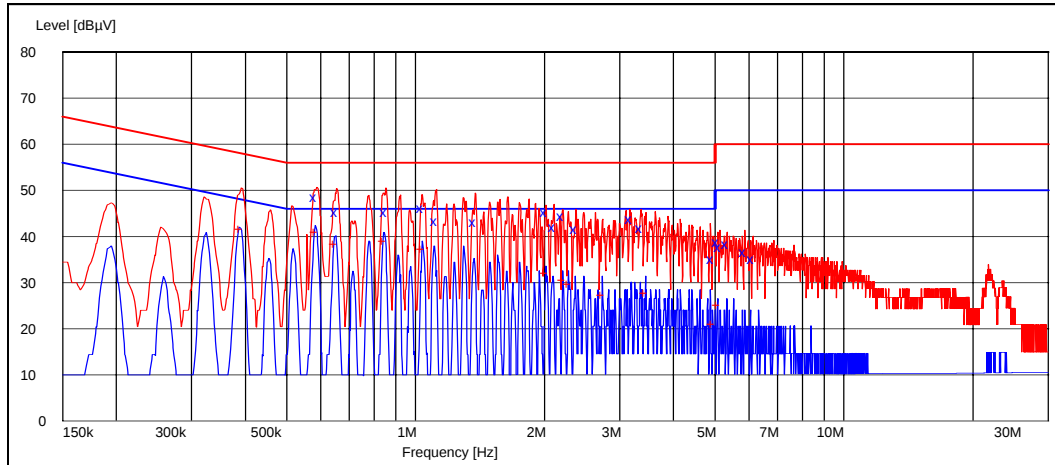
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Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.585000	44.50	L1	Passed
0.650000	43.50	L1	Passed
0.835000	47.70	L1	Passed
0.915000	44.30	L1	Passed
1.110000	45.00	L1	Passed
1.370000	44.00	L1	Passed
2.000000	45.20	L1	Passed
2.095000	42.70	L1	Passed
2.190000	43.40	L1	Passed
2.355000	41.10	L1	Passed
3.335000	39.70	L1	Passed
3.600000	41.00	L1	Passed
4.980000	36.60	L1	Passed
5.110000	36.50	L1	Passed
5.375000	36.60	L1	Passed
5.640000	36.30	L1	Passed
5.830000	36.40	L1	Passed
6.095000	35.50	L1	Passed

AC Conducted BT, Mid channel, 8DPSK



Average (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.390000	41.60	L1	Passed
0.585000	41.00	L1	Passed
0.650000	38.40	L1	Passed
0.845000	39.00	L1	Passed
1.040000	37.30	L1	Passed
2.020000	32.00	L1	Passed
2.215000	30.50	L1	Passed
2.280000	29.70	L1	Passed
2.735000	27.20	L1	Passed
3.450000	27.70	L1	Passed
4.955000	20.90	L1	Passed
5.085000	25.20	L1	Passed

Test & Certification Center (TCC) - Dallas
DTX-1276-EN-1.0

Test Report #: WR-960.103
7-Apr-06

Accredited Laboratory
Certificate Number: 1819-01

Ver 2.0

Quasi peak (RBW: 9 kHz)

Frequency [MHz]	U [dBμV]	Line	Result
0.585000	48.60	L1	Passed
0.655000	45.30	L1	Passed
0.855000	45.40	L1	Passed
1.040000	46.30	L1	Passed
1.120000	43.30	L1	Passed
1.380000	43.20	L1	Passed
2.020000	45.20	L1	Passed
2.110000	42.10	L1	Passed
2.210000	44.30	L1	Passed
2.375000	41.50	L1	Passed
3.195000	43.70	L1	Passed
3.365000	41.80	L1	Passed
4.955000	35.10	N	Passed
5.085000	38.70	L1	Passed
5.155000	37.70	L1	Passed
5.355000	38.40	L1	Passed
5.880000	36.60	L1	Passed
6.145000	35.00	L1	Passed