

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032019\
 Data File : VX008265.D
 Acq On : 21 Mar 2019 01:37
 Operator : JC/SP
 Sample : K1912-01DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M3-T0-OZ(PRE)DL

Quant Time: Mar 22 05:40:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	316629	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	524305	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	432885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171991	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	225020	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
35) Dibromofluoromethane	5.50	113	166490	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	8.71	98	637616	47.92	ug/l	0.00
Spiked Amount			Recovery	=	95.84%	
62) 4-Bromofluorobenzene	11.13	95	199216	43.48	ug/l	0.00
Spiked Amount			Recovery	=	86.96%	

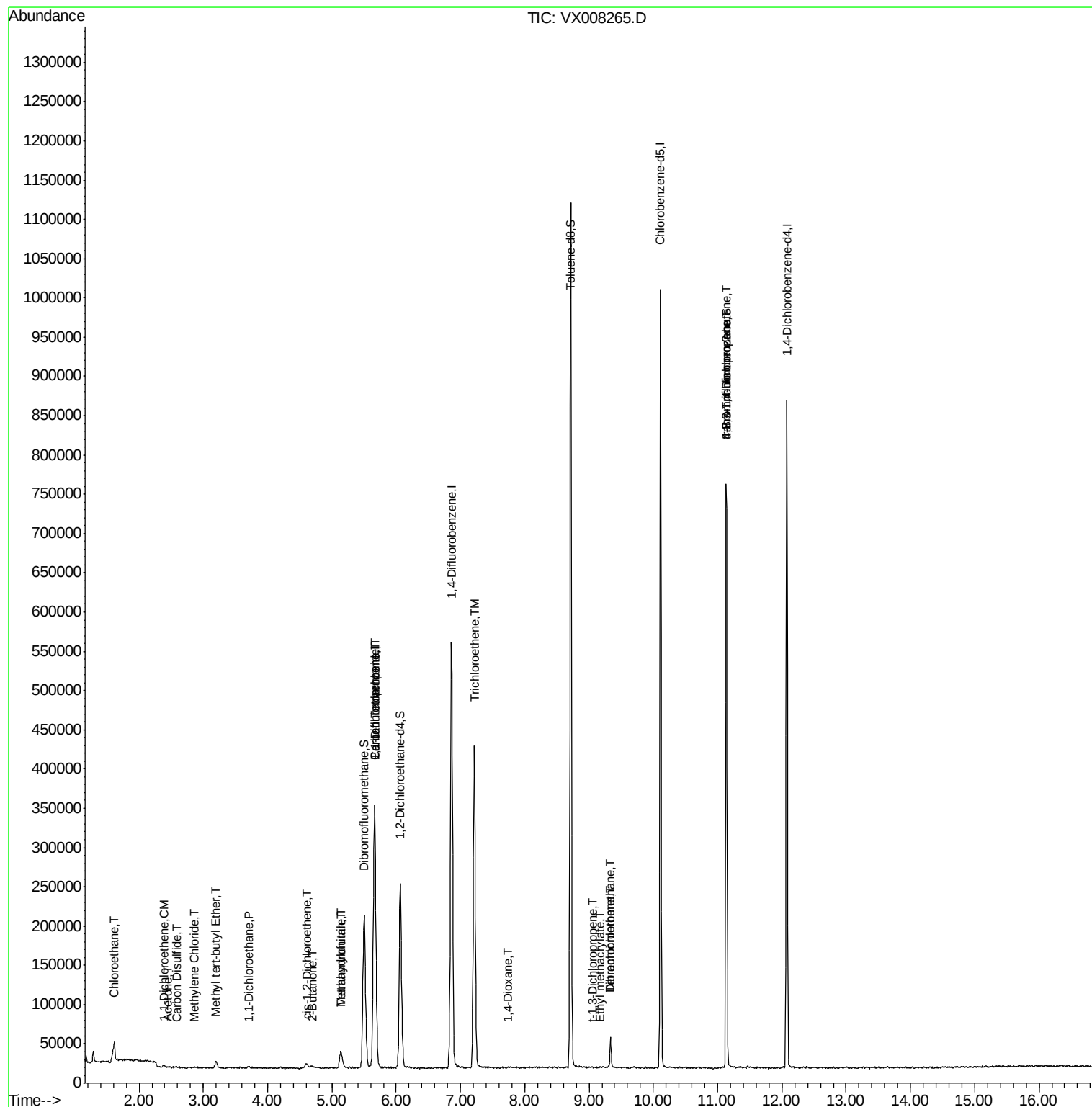
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.62	64	4836	1.606	ug/l #	64
12) 1,1-Dichloroethene	2.39	96	808	0.210	ug/l #	61
13) Acrolein	2.28	56	228	Below Cal	#	42
16) Acetone	2.45	43	1694	0.626	ug/l #	82
17) Carbon Disulfide	2.57	76	1175	0.768	ug/l #	90
19) Methyl tert-butyl Ether	3.20	73	9061	0.652	ug/l	98
20) Methylene Chloride	2.86	84	921	0.204	ug/l #	72
24) 1,1-Dichloroethane	3.70	63	2313	0.275	ug/l #	90
25) 2-Butanone	4.69	43	5314	1.331	ug/l #	87
27) cis-1,2-Dichloroethene	4.60	96	3543	0.749	ug/l	96
29) Tetrahydrofuran	5.14	42	20774	8.324	ug/l	99
36) 1,1-Dichloropropene	5.67	75	26218	4.295	ug/l #	49
38) Carbon Tetrachloride	5.67	117	31644	5.818	ug/l #	16
41) Methacrylonitrile	5.14	41	12555	3.102	ug/l #	50
44) Trichloroethene	7.21	130	156539	35.435	ug/l	90
49) 1,4-Dioxane	7.75	88	278	2.562	ug/l #	39
53) t-1,3-Dichloropropene	9.05	75	265	1.458	ug/l #	70
56) Ethyl methacrylate	9.16	69	179	0.549	ug/l	98
60) Dibromochloromethane	9.34	129	6617	1.590	ug/l #	11
64) Tetrachloroethene	9.34	164	7119	1.823	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	104087	21.517	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	104087	54.714	ug/l #	12

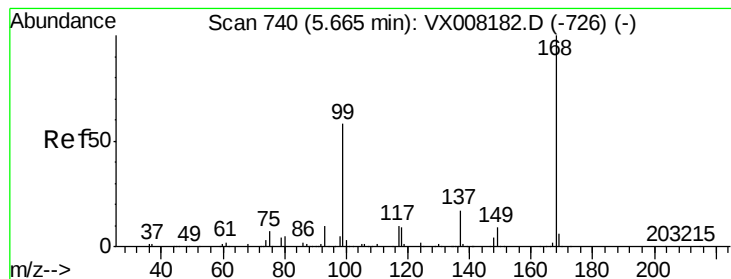
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032019\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 19 13:15:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

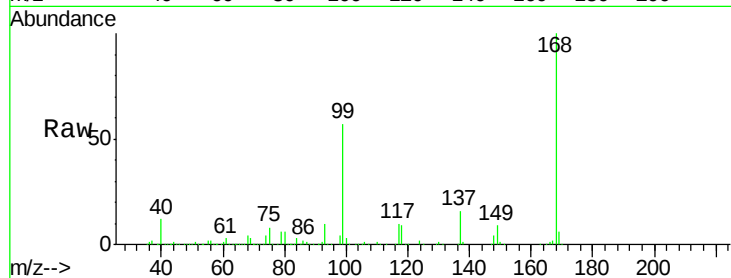
M3-T0-OZ(PRE)DL

Tot Ion:168 Resp: 316629

Ion Ratio Lower Upper

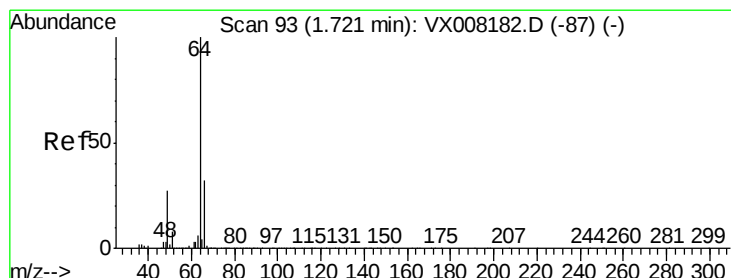
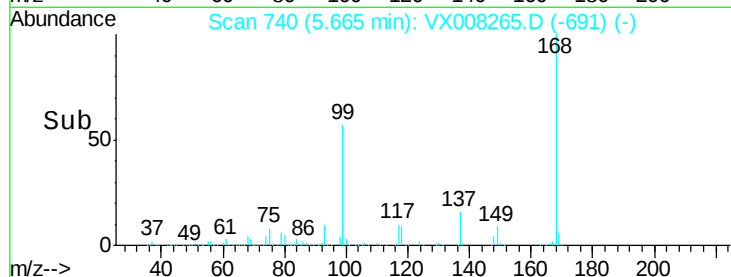
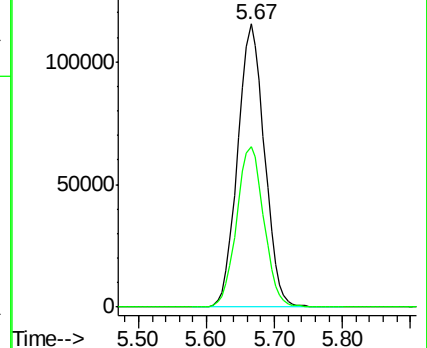
168 100

99 56.6 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 1.606 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX008265.D

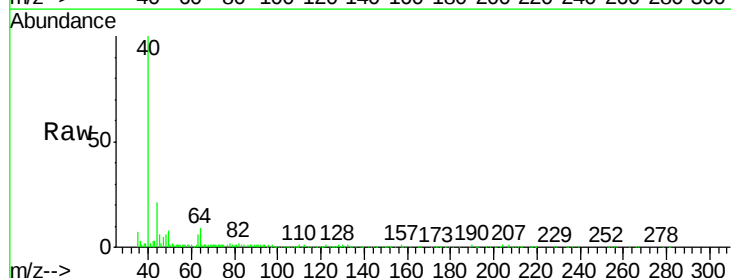
Acq: 21 Mar 2019 01:37

Tgt Ion: 64 Resp: 4836

Ion Ratio Lower Upper

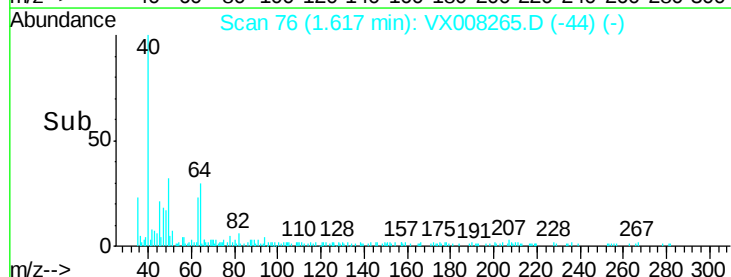
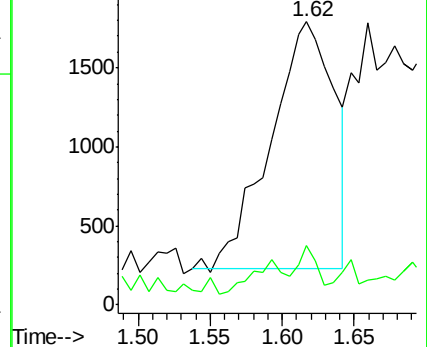
64 100

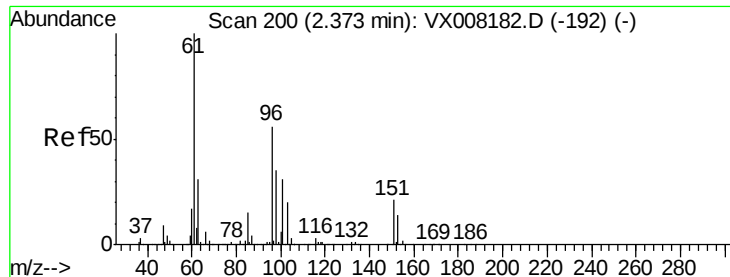
66 11.8 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#12

1,1-Dichloroethene

Concen: 0.210 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.02 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

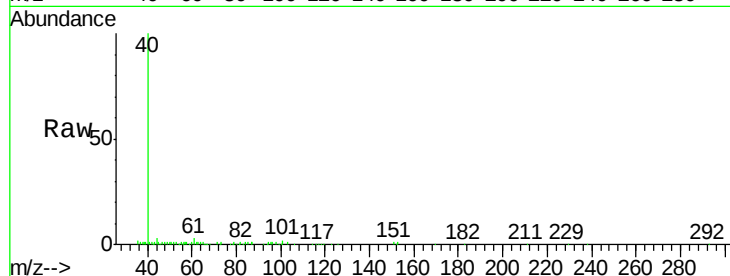
Tot Ion: 96 Resp: 808

Ion Ratio Lower Upper

96 100

61 106.7 129.8 194.6#

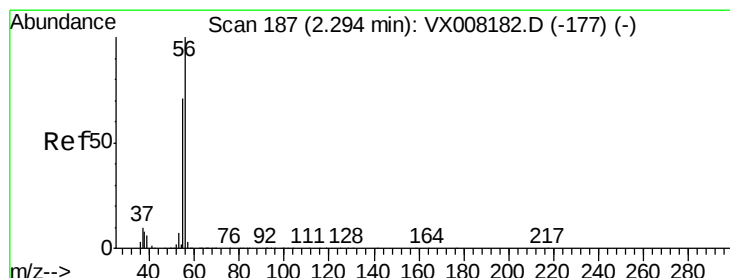
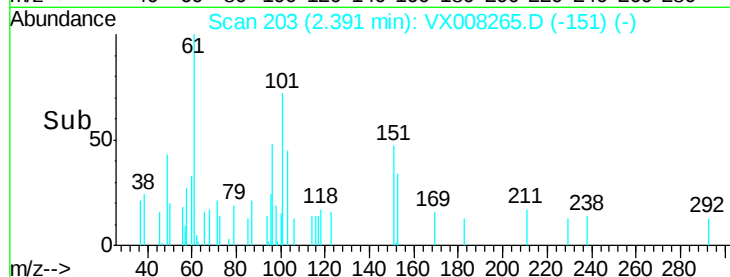
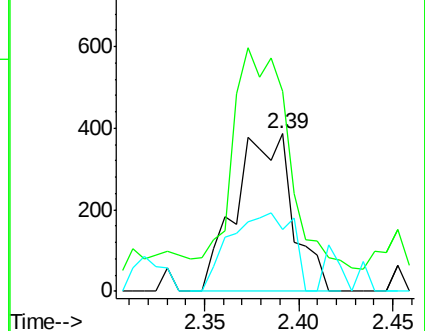
98 39.3 51.0 76.6#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: Below Cal

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX008265.D

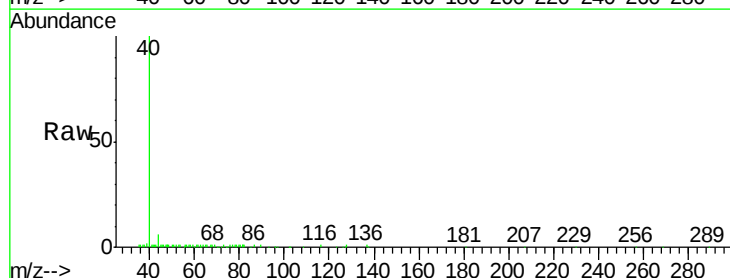
Acq: 21 Mar 2019 01:37

Tgt Ion: 56 Resp: 228

Ion Ratio Lower Upper

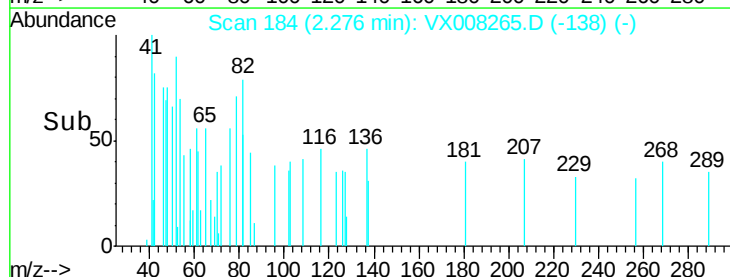
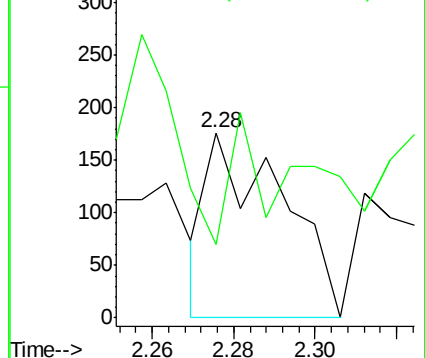
56 100

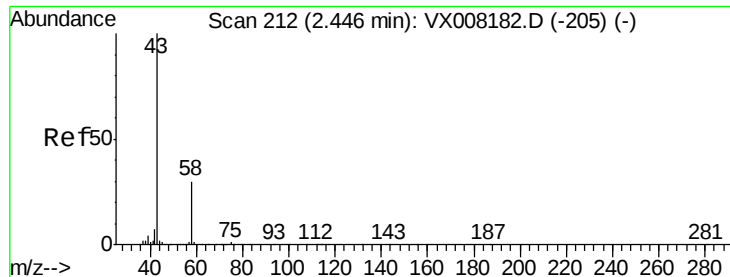
55 24.1 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.626 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

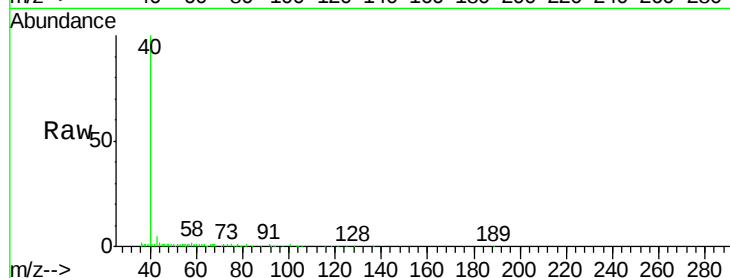
M3-T0-OZ(PRE)DL

Tot Ion: 43 Resp: 1694

Ion Ratio Lower Upper

43 100

58 22.0 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

600

400

200

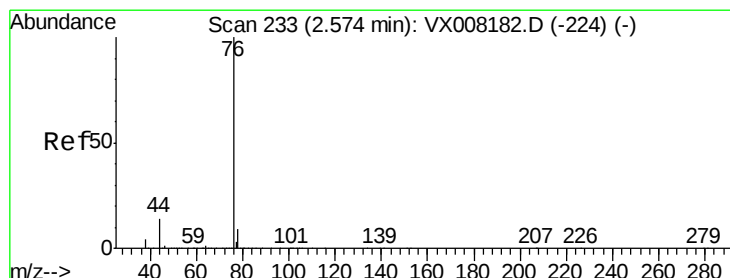
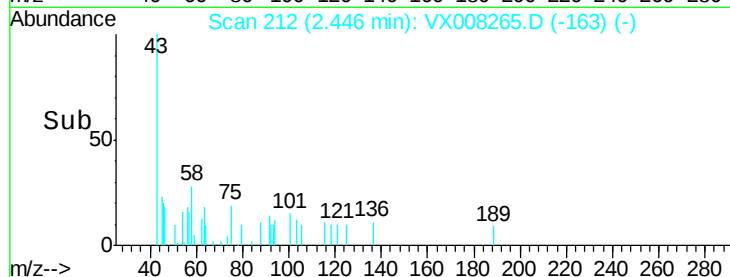
0

Time-->

2.40

2.45

2.50



#17

Carbon Disulfide

Concen: 0.768 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008265.D

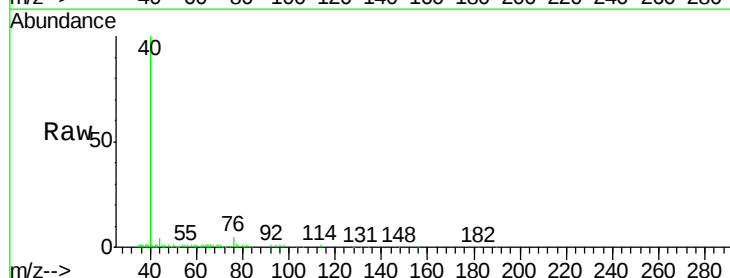
Acq: 21 Mar 2019 01:37

Tgt Ion: 76 Resp: 1175

Ion Ratio Lower Upper

76 100

78 12.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

600

400

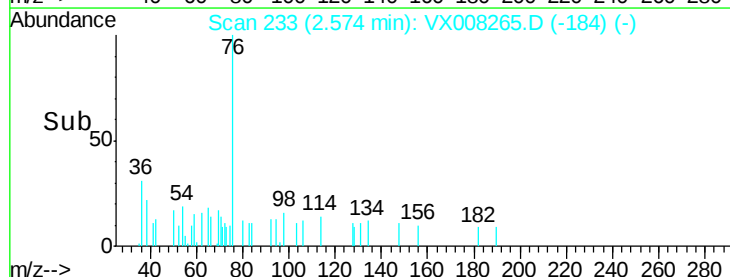
200

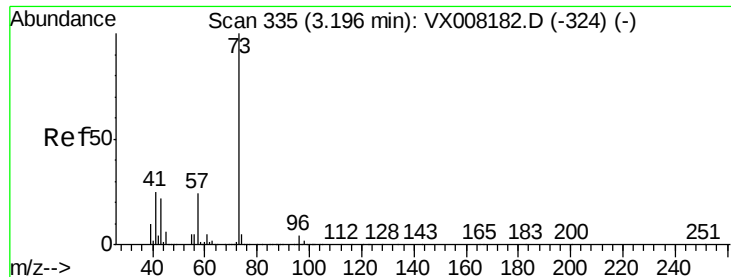
0

Time-->

2.55

2.60



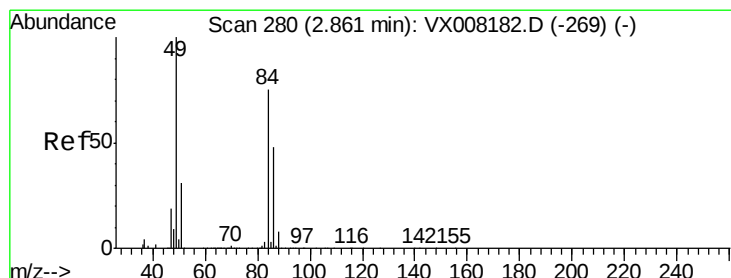
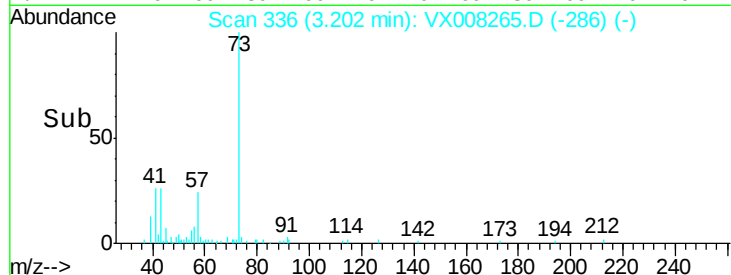
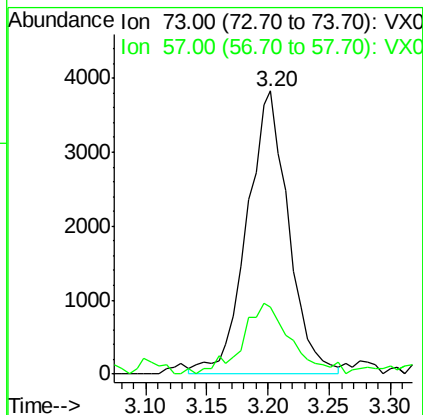
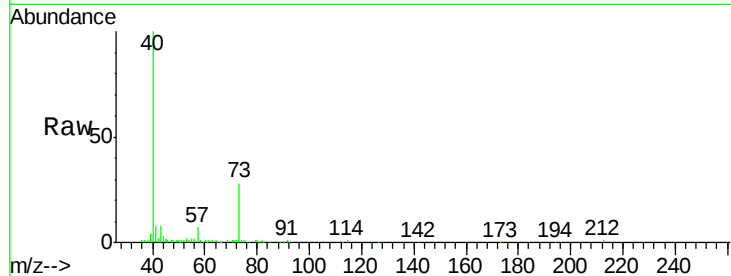


#19

Methyl tert-butyl Ether
 Concen: 0.652 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VX008265.D
 Acq: 21 Mar 2019 01:37

Instrument :
 MSVOA_X
 ClientSampleId :
 M3-T0-OZ(PRE)DL

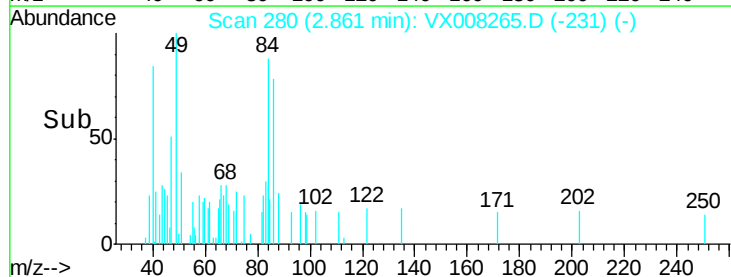
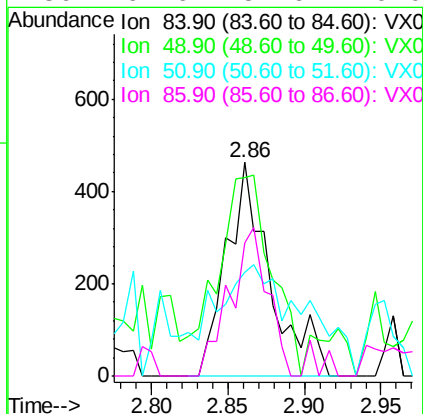
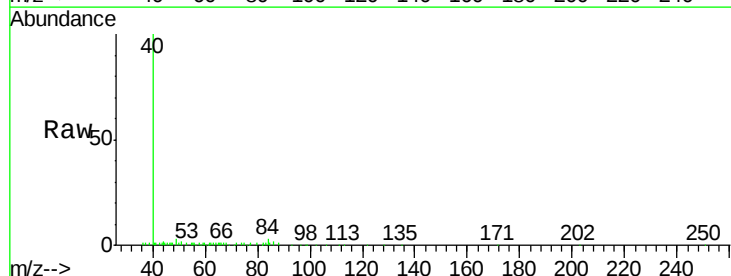
Tot Ion: 73 Resp: 9061
 Ion Ratio Lower Upper
 73 100
 57 22.0 18.2 27.4

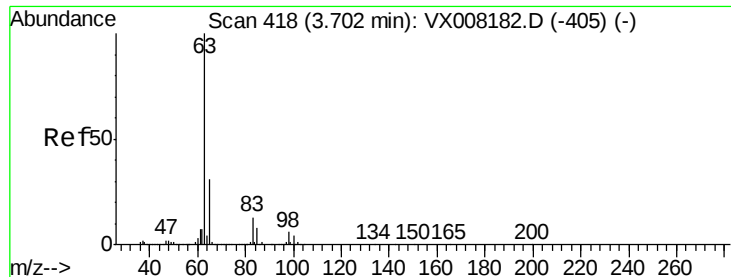


#20

Methylene Chloride
 Concen: 0.204 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX008265.D
 Acq: 21 Mar 2019 01:37

Tgt Ion: 84 Resp: 921
 Ion Ratio Lower Upper
 84 100
 49 74.1 99.3 148.9#
 51 28.7 31.3 46.9#
 86 62.6 52.6 79.0





#24

1,1-Dichloroethane

Concen: 0.275 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

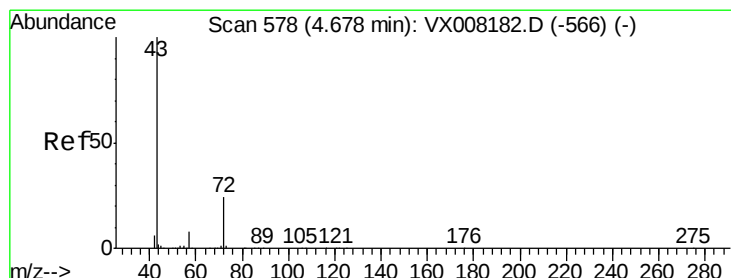
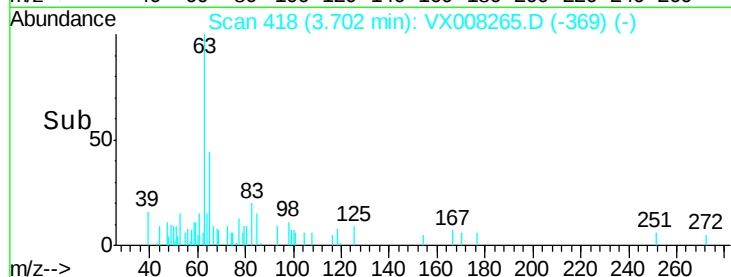
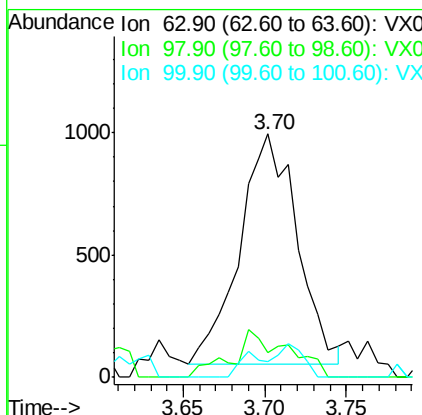
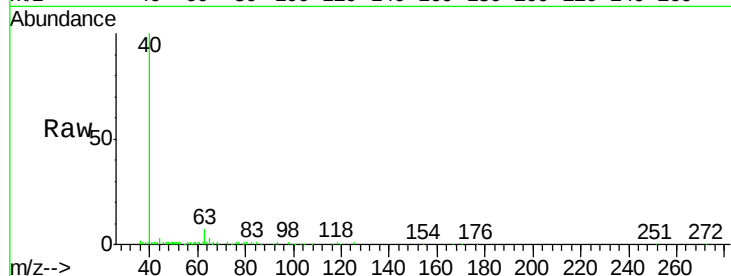
Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

Tot Ion:	63	Resp:	2313
Ion	Ratio	Lower	Upper
63	100		
98	10.6	3.3	9.8#
100	6.7	2.3	6.8



#25

2-Butanone

Concen: 1.331 ug/l

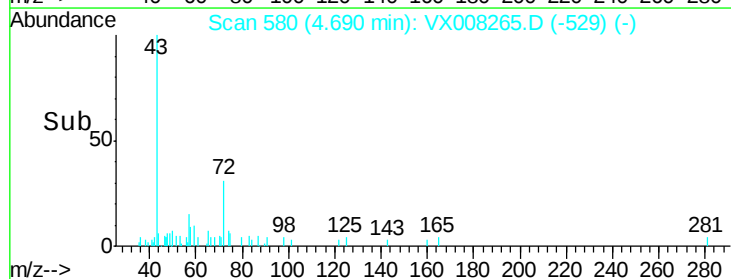
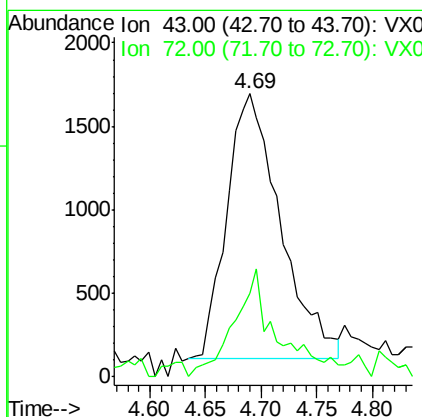
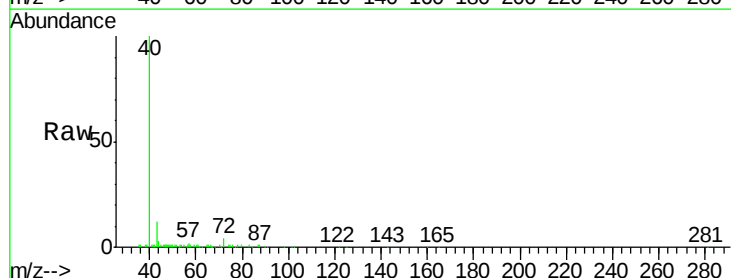
RT: 4.69 min Scan# 580

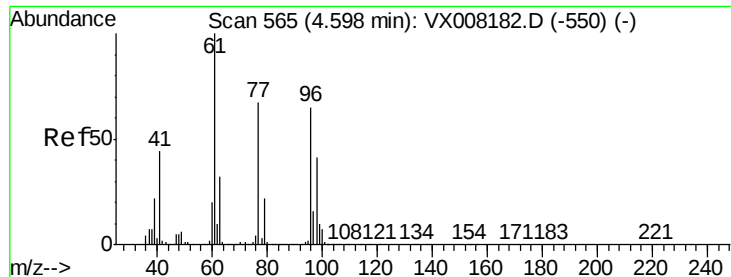
Delta R.T. 0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Tgt Ion:	43	Resp:	5314
Ion	Ratio	Lower	Upper
43	100		
72	31.6	19.9	29.9#





#27

cis-1,2-Dichloroethene

Concen: 0.749 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

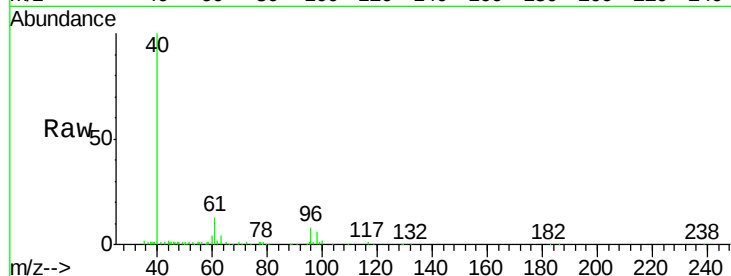
Tot Ion: 96 Resp: 3543

Ion Ratio Lower Upper

96 100

61 141.4 0.0 288.0

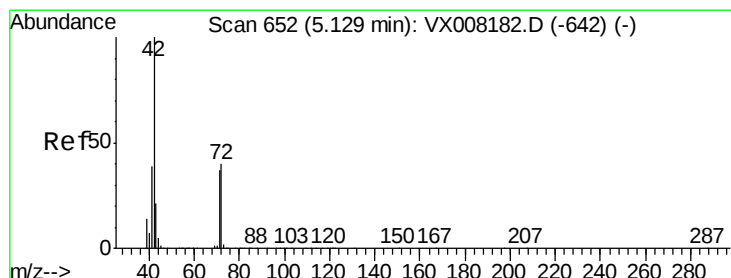
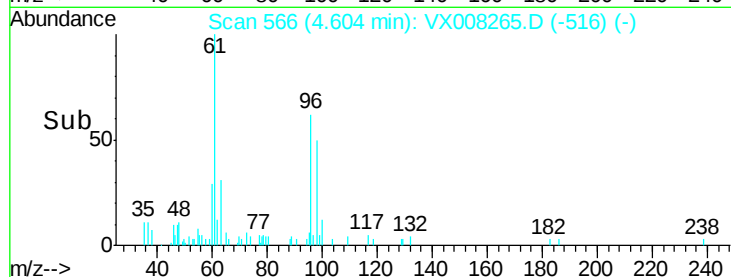
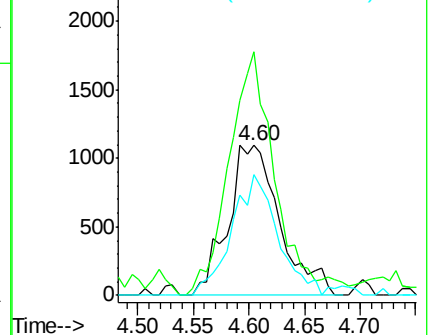
98 71.2 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 8.324 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

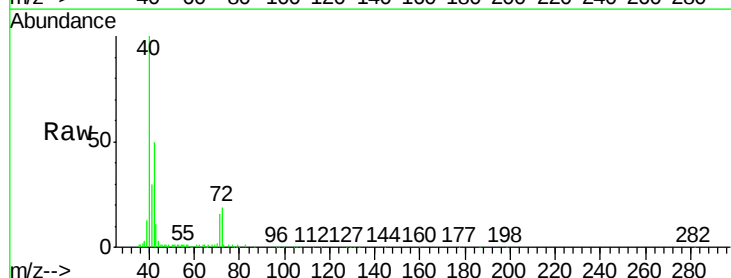
Tgt Ion: 42 Resp: 20774

Ion Ratio Lower Upper

42 100

72 42.1 33.8 50.6

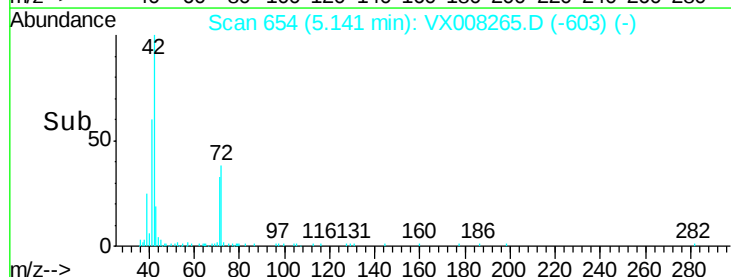
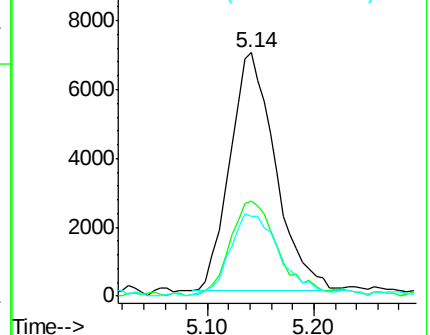
71 38.0 31.5 47.3

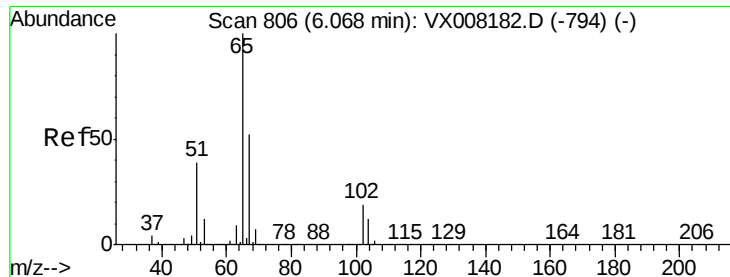


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.187 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

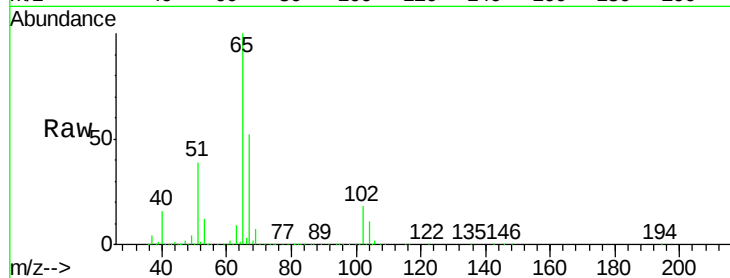
M3-T0-OZ(PRE)DL

Tot Ion: 65 Resp: 225020

Ion Ratio Lower Upper

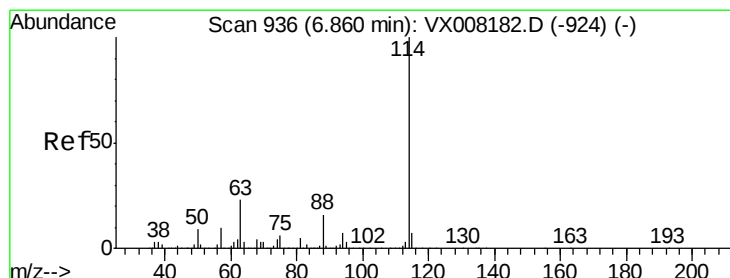
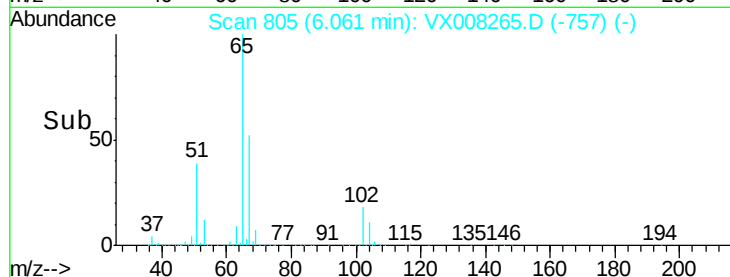
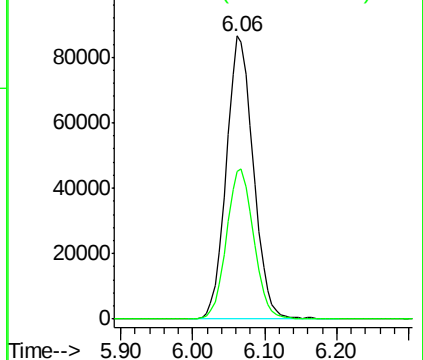
65 100

67 53.6 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

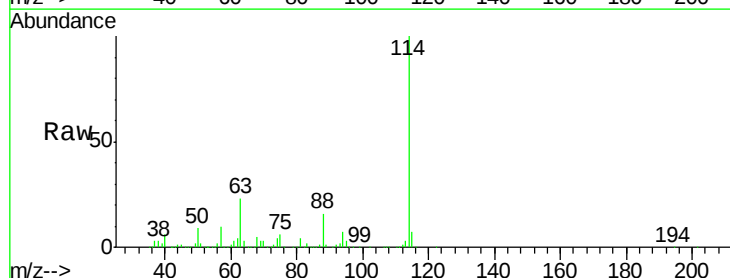
Tgt Ion: 114 Resp: 524305

Ion Ratio Lower Upper

114 100

63 23.1 0.0 39.8

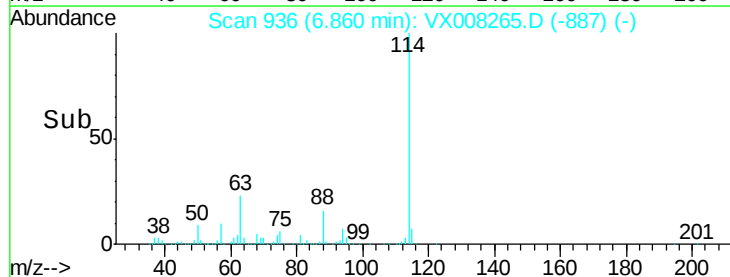
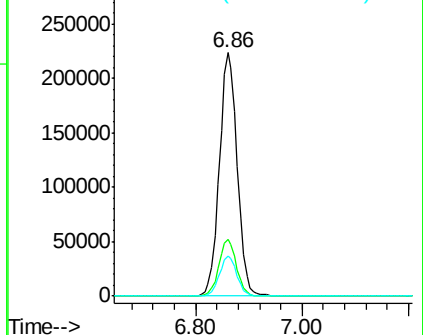
88 16.4 0.0 31.4

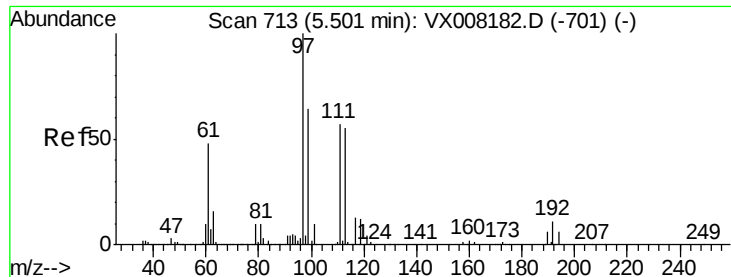


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.435 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

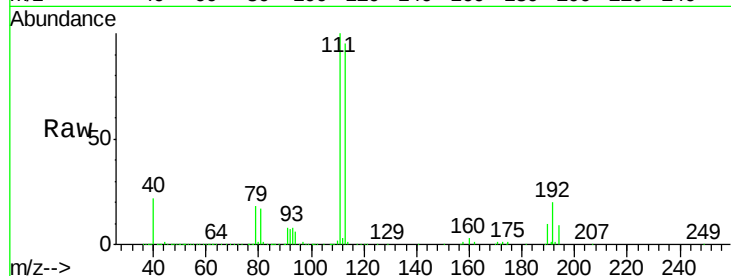
Tot Ion:113 Resp: 166490

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

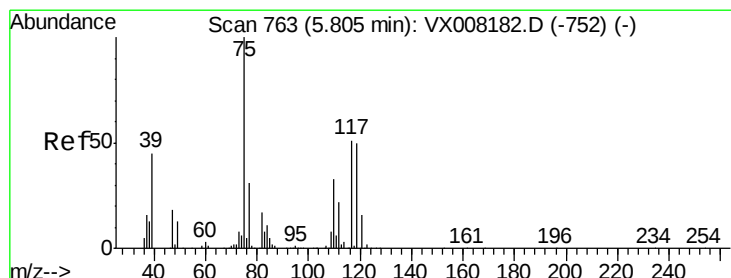
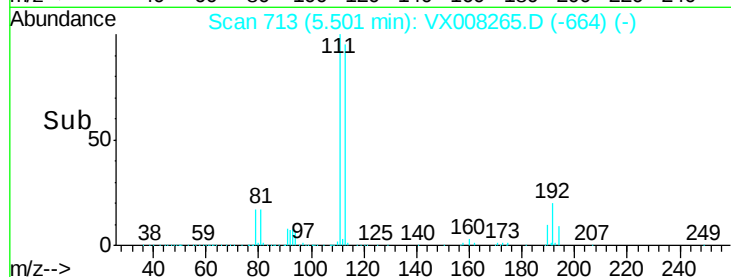
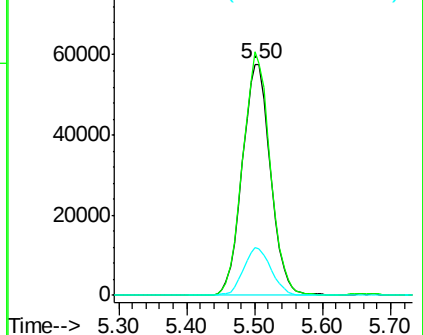
192 20.3 19.4 29.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.295 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

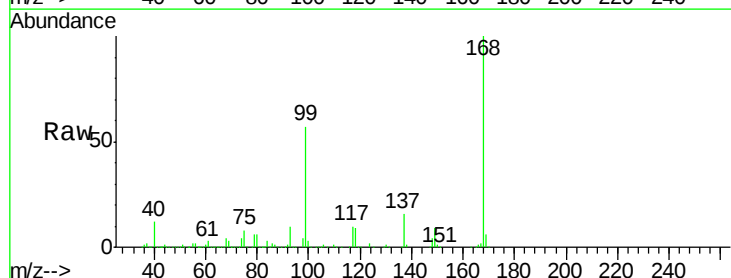
Tgt Ion: 75 Resp: 26218

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.0#

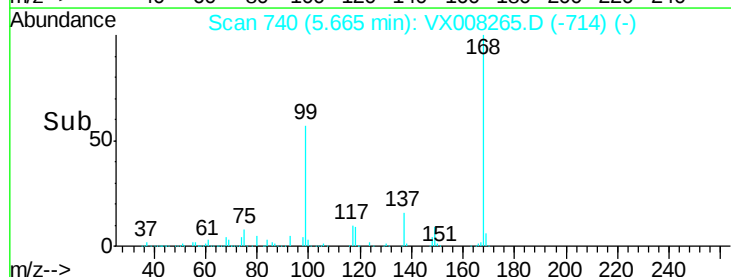
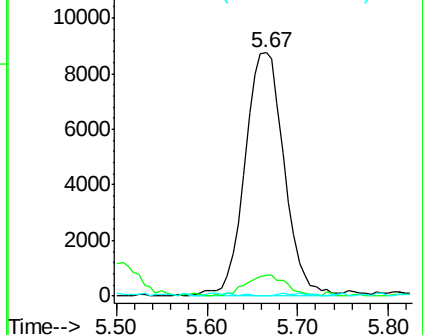
77 0.3 25.0 37.4#

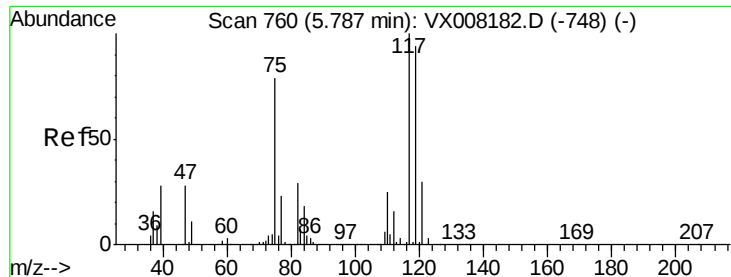


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.818 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

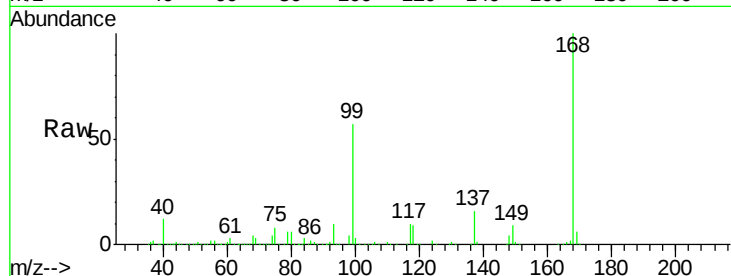
Tot Ion:117 Resp: 31644

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

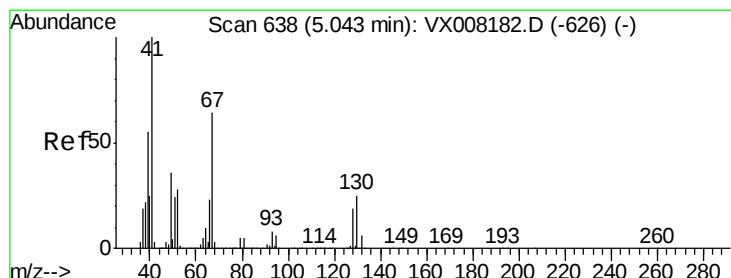
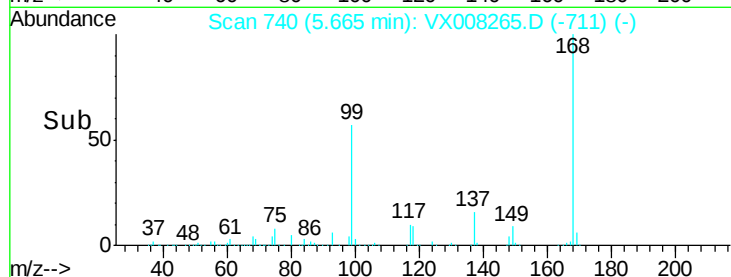
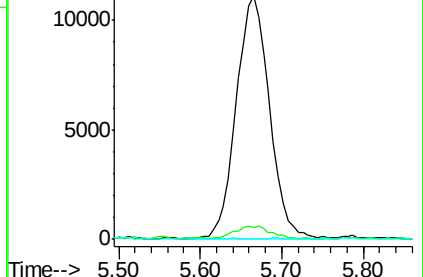
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.102 ug/l

RT: 5.14 min Scan# 654

Delta R.T. 0.10 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Tgt Ion: 41 Resp: 12555

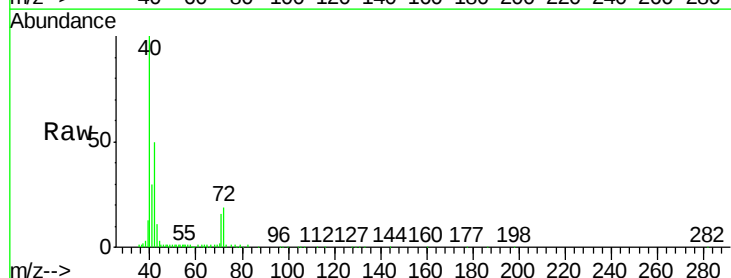
Ion Ratio Lower Upper

41 100

39 47.5 41.6 62.4

67 1.1 55.8 83.6#

52 2.1 21.7 32.5#

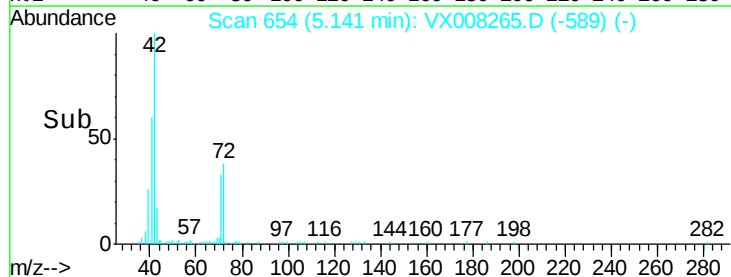
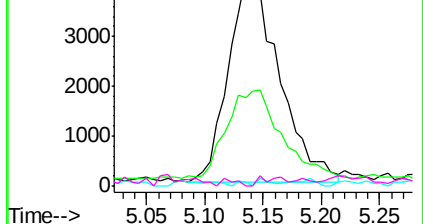


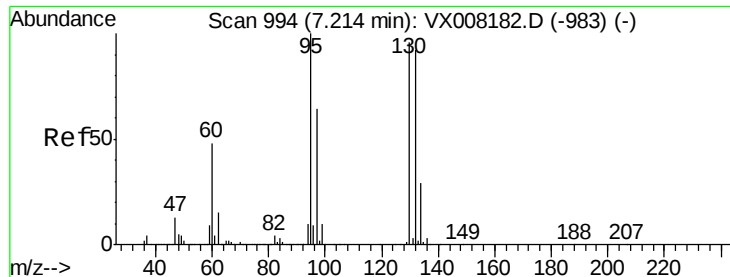
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 35.435 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

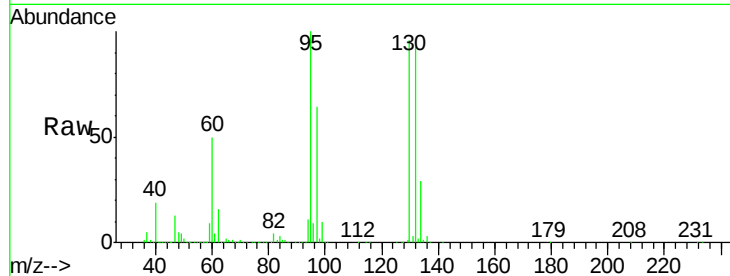
M3-T0-OZ(PRE)DL

Tot Ion:130 Resp: 156539

Ion Ratio Lower Upper

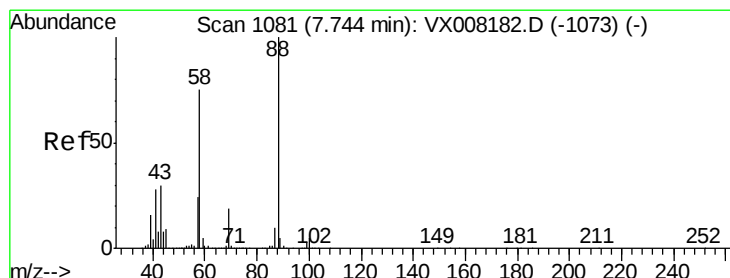
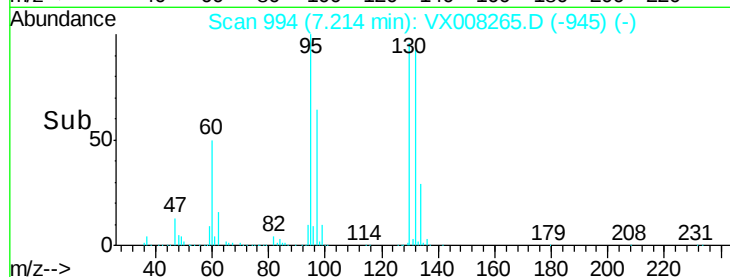
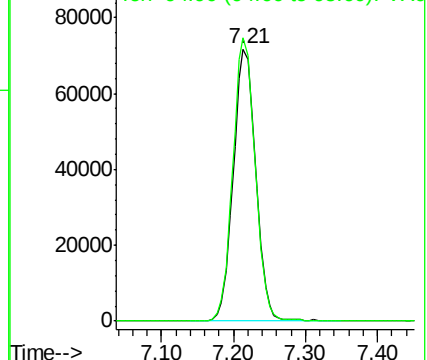
130 100

95 103.9 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.562 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

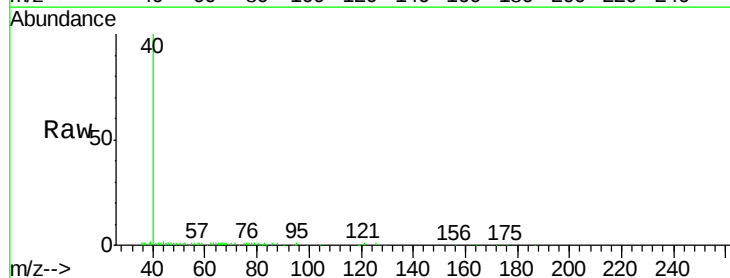
Tgt Ion: 88 Resp: 278

Ion Ratio Lower Upper

88 100

43 69.4 25.1 37.7#

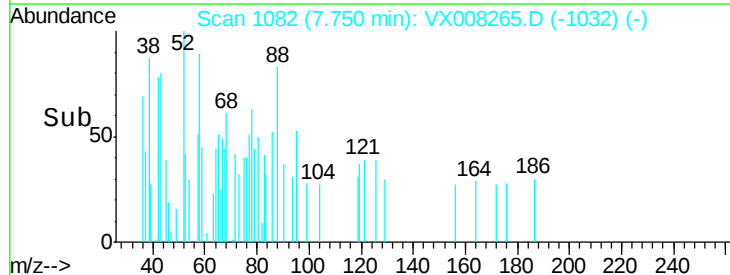
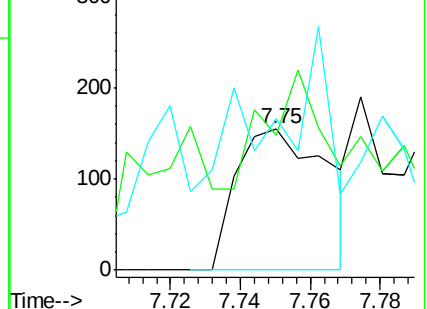
58 24.1 57.8 86.6#

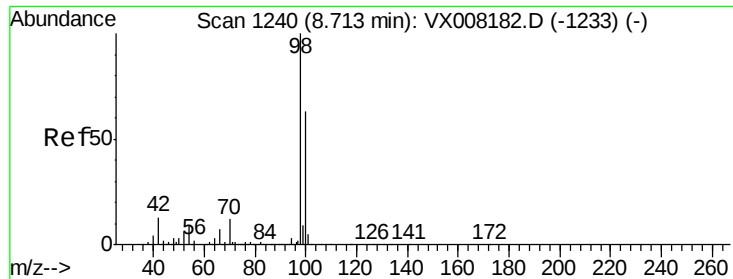


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.915 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

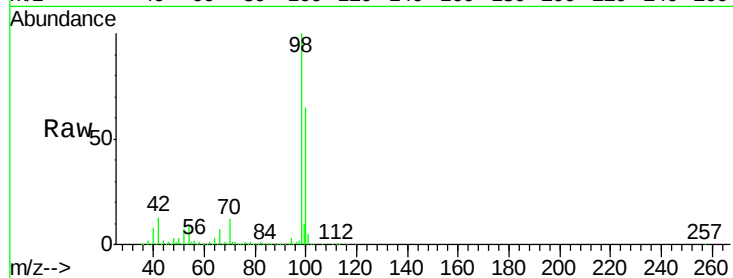
M3-T0-OZ(PRE)DL

Tot Ion: 98 Resp: 637616

Ion Ratio Lower Upper

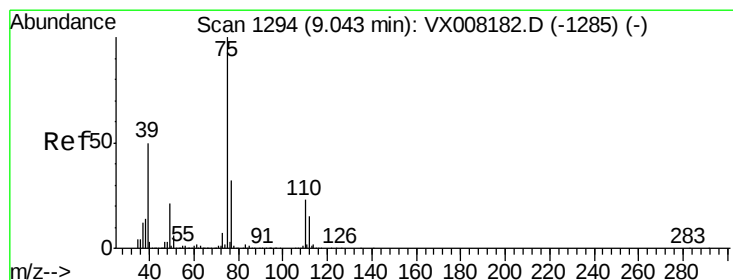
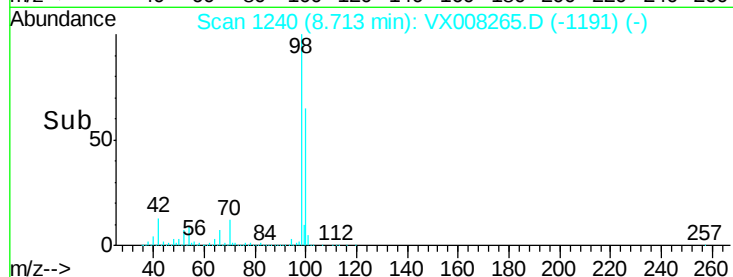
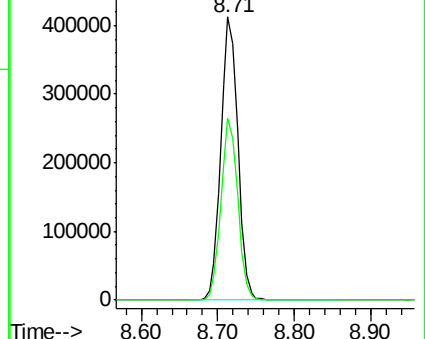
98 100

100 63.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.458 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX008265.D

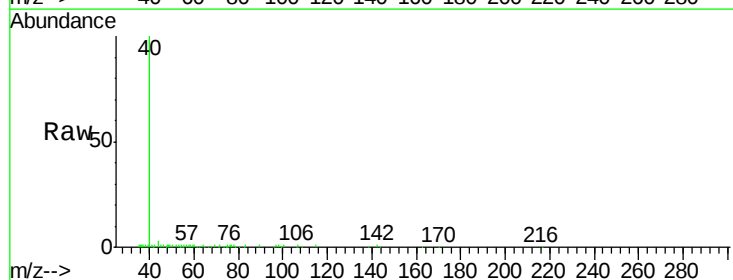
Acq: 21 Mar 2019 01:37

Tgt Ion: 75 Resp: 265

Ion Ratio Lower Upper

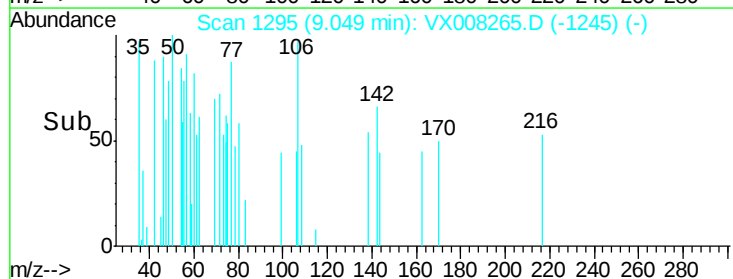
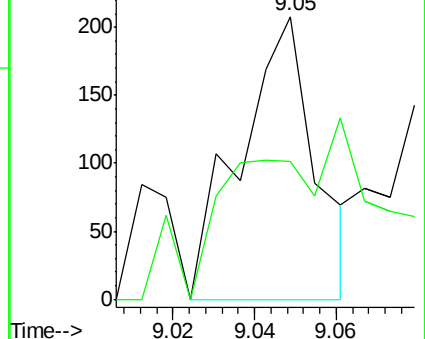
75 100

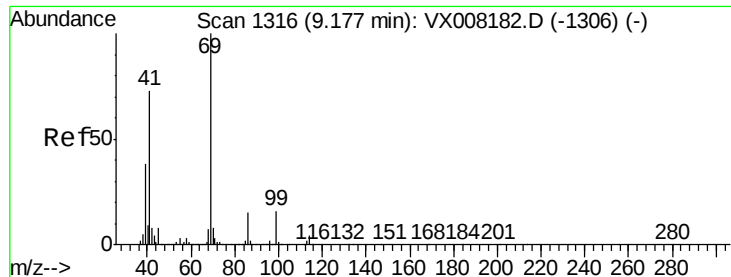
77 48.6 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#56

Ethyl methacrylate

Concen: 0.549 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

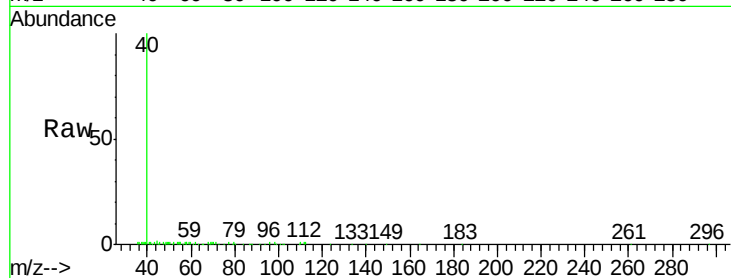
Tot Ion: 69 Resp: 179

Ion Ratio Lower Upper

69 100

41 69.3 54.2 81.4

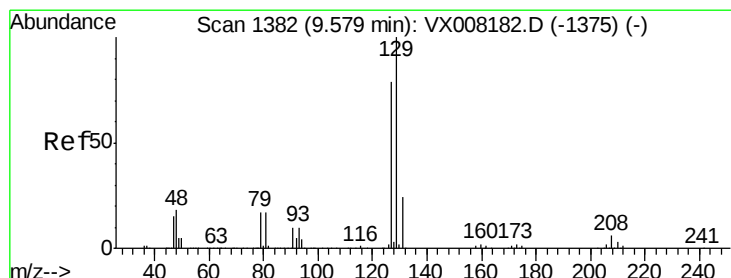
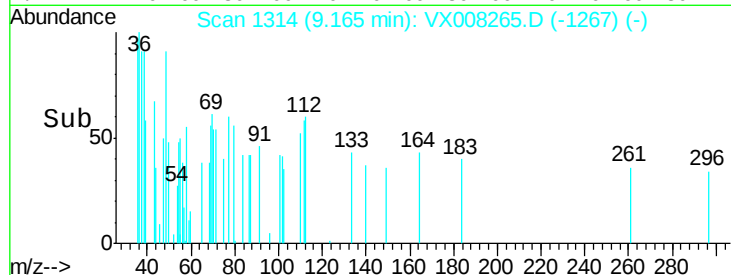
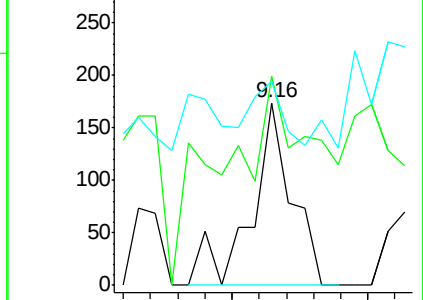
39 30.2 25.0 37.4



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#60

Dibromochloromethane

Concen: 1.590 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008265.D

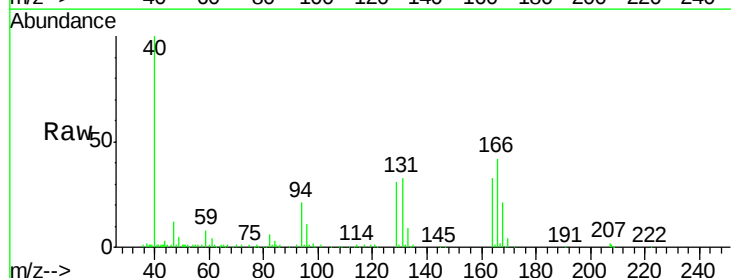
Acq: 21 Mar 2019 01:37

Tgt Ion: 129 Resp: 6617

Ion Ratio Lower Upper

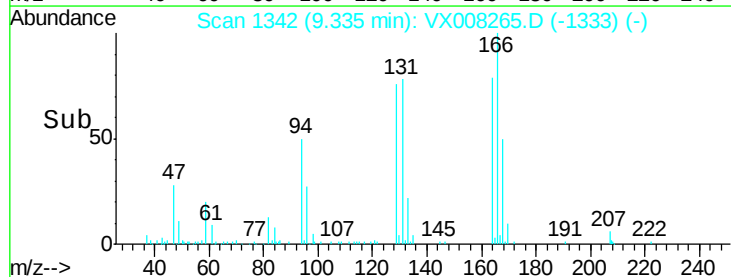
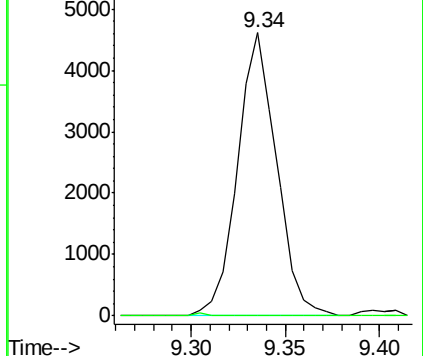
129 100

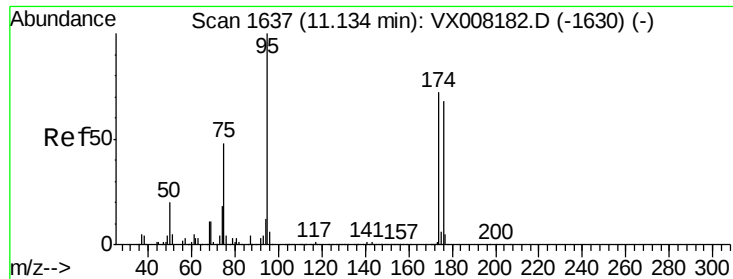
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 43.479 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

Instrument :

MSVOA_X

ClientSampleId :

M3-T0-OZ(PRE)DL

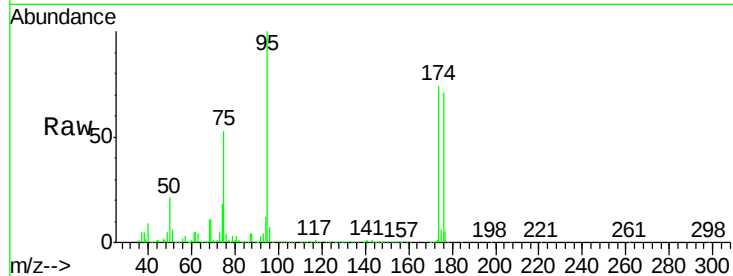
Tot Ion: 95 Resp: 199216

Ion Ratio Lower Upper

95 100

174 78.7 0.0 182.8

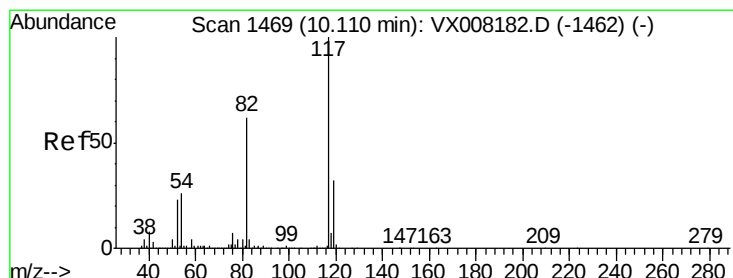
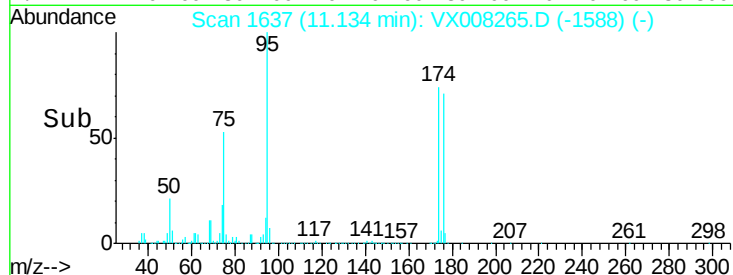
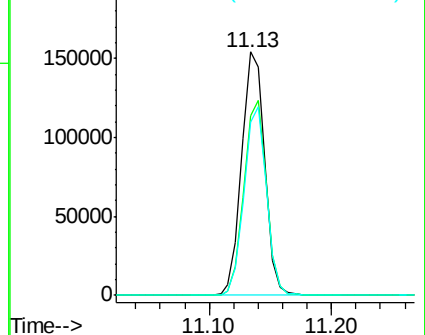
176 75.9 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008265.D

Acq: 21 Mar 2019 01:37

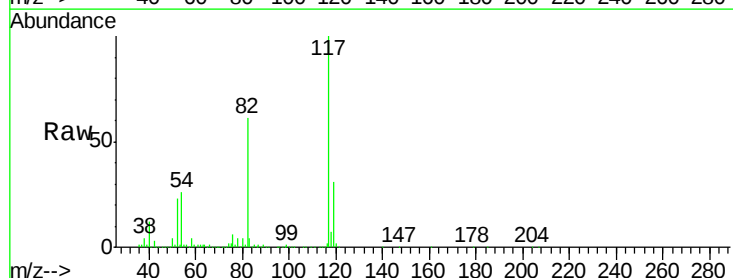
Tgt Ion: 117 Resp: 432885

Ion Ratio Lower Upper

117 100

82 60.8 44.3 66.5

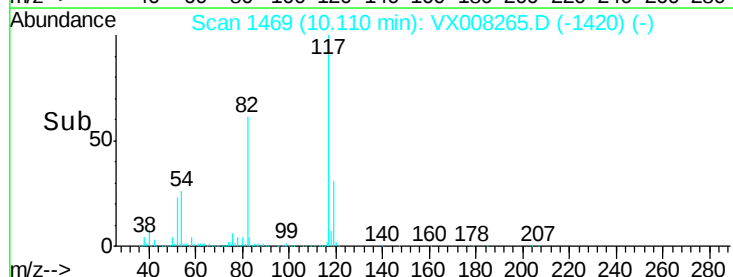
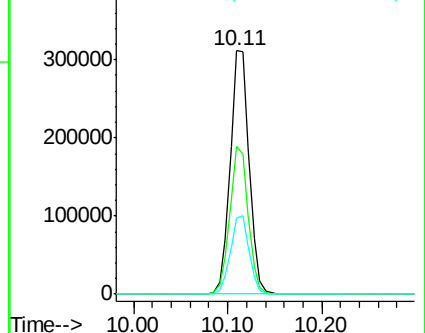
119 31.4 25.3 37.9

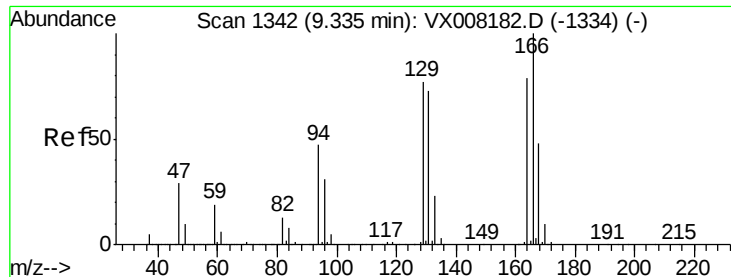


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

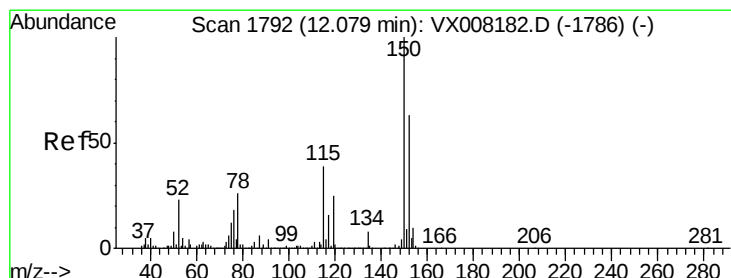
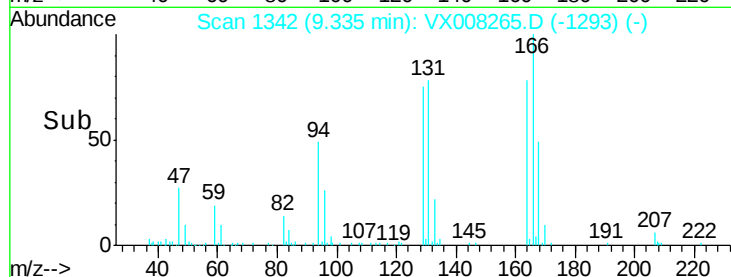
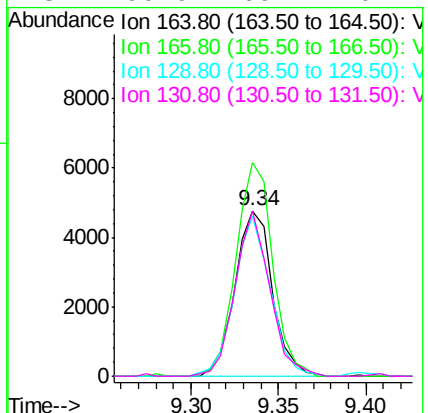
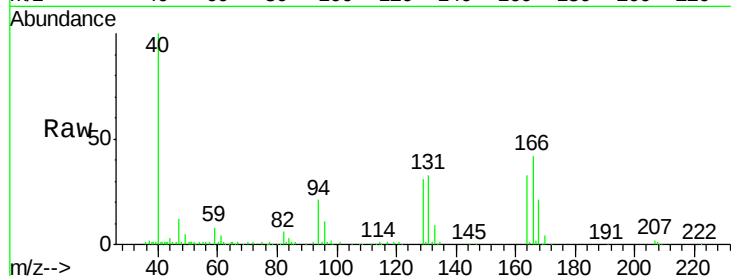




#64
Tetrachloroethene
Concen: 1.823 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008265.D
Acq: 21 Mar 2019 01:37

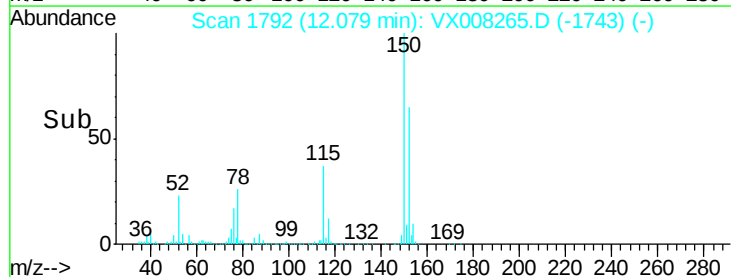
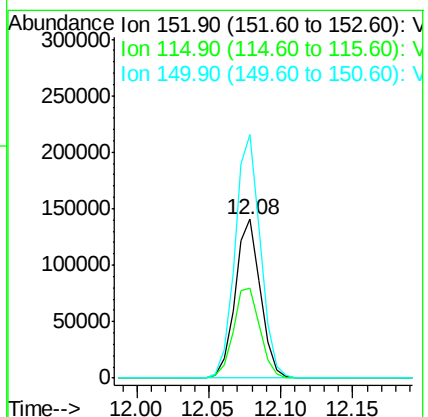
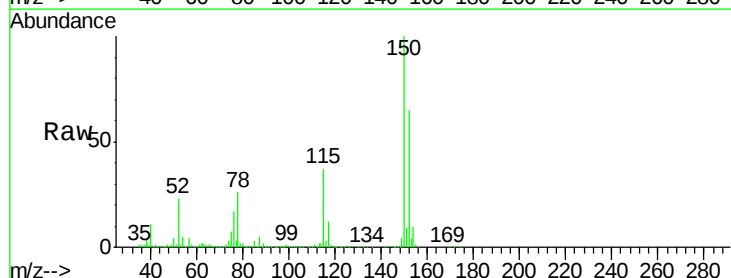
Instrument :
MSVOA_X
ClientSampleId :
M3-T0-OZ(PRE)DL

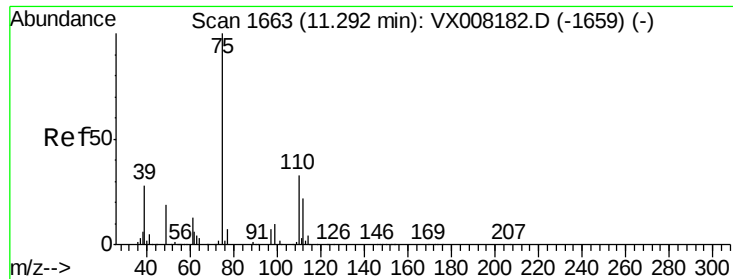
Tot Ion:164 Resp: 7119
Ion Ratio Lower Upper
164 100
166 128.9 103.4 155.0
129 96.5 72.2 108.4
131 99.9 69.4 104.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008265.D
Acq: 21 Mar 2019 01:37

Tgt Ion:152 Resp: 171991
Ion Ratio Lower Upper
152 100
115 59.9 38.6 115.7
150 154.7 0.0 348.4

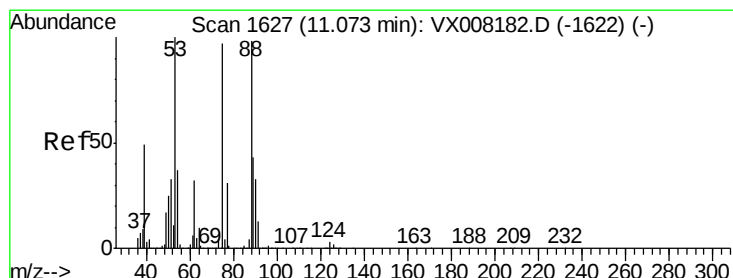
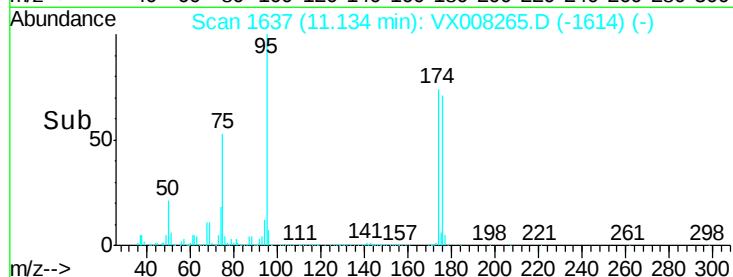
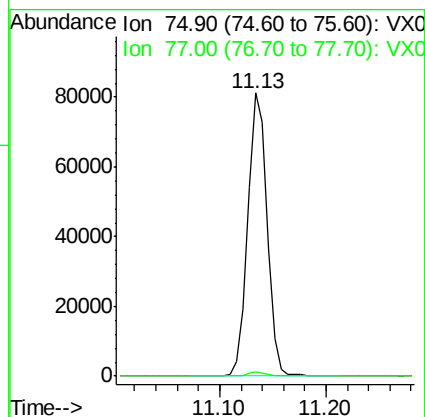
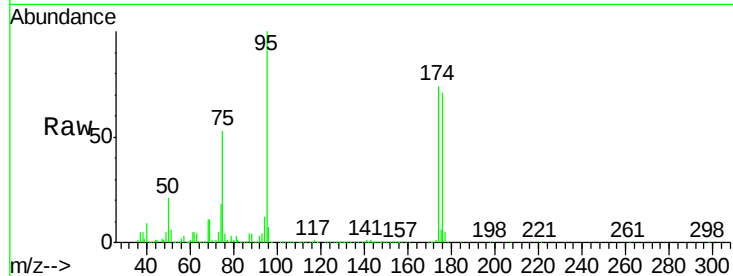




#76
 1,2,3-Trichloropropane
 Concen: 21.517 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008265.D
 Acq: 21 Mar 2019 01:37

Instrument :
 MSVOA_X
 ClientSampleId :
 M3-T0-OZ(PRE)DL

Tot Ion: 75 Resp: 104087
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.714 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008265.D
 Acq: 21 Mar 2019 01:37

Tgt Ion: 75 Resp: 104087
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.1 114.1#
 89 0.1 36.3 54.5#

