

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041919\
 Data File : VX009075.D
 Acq On : 19 Apr 2019 17:04
 Operator : JC/SP
 Sample : K2487-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GMW-7

Quant Time: Apr 20 00:39:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	363806	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	308713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128924	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	152251	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
35) Dibromofluoromethane	5.50	113	110735	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
50) Toluene-d8	8.71	98	448614	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
62) 4-Bromofluorobenzene	11.13	95	145889	44.38	ug/l	0.00
Spiked Amount			Recovery	=	88.76%	

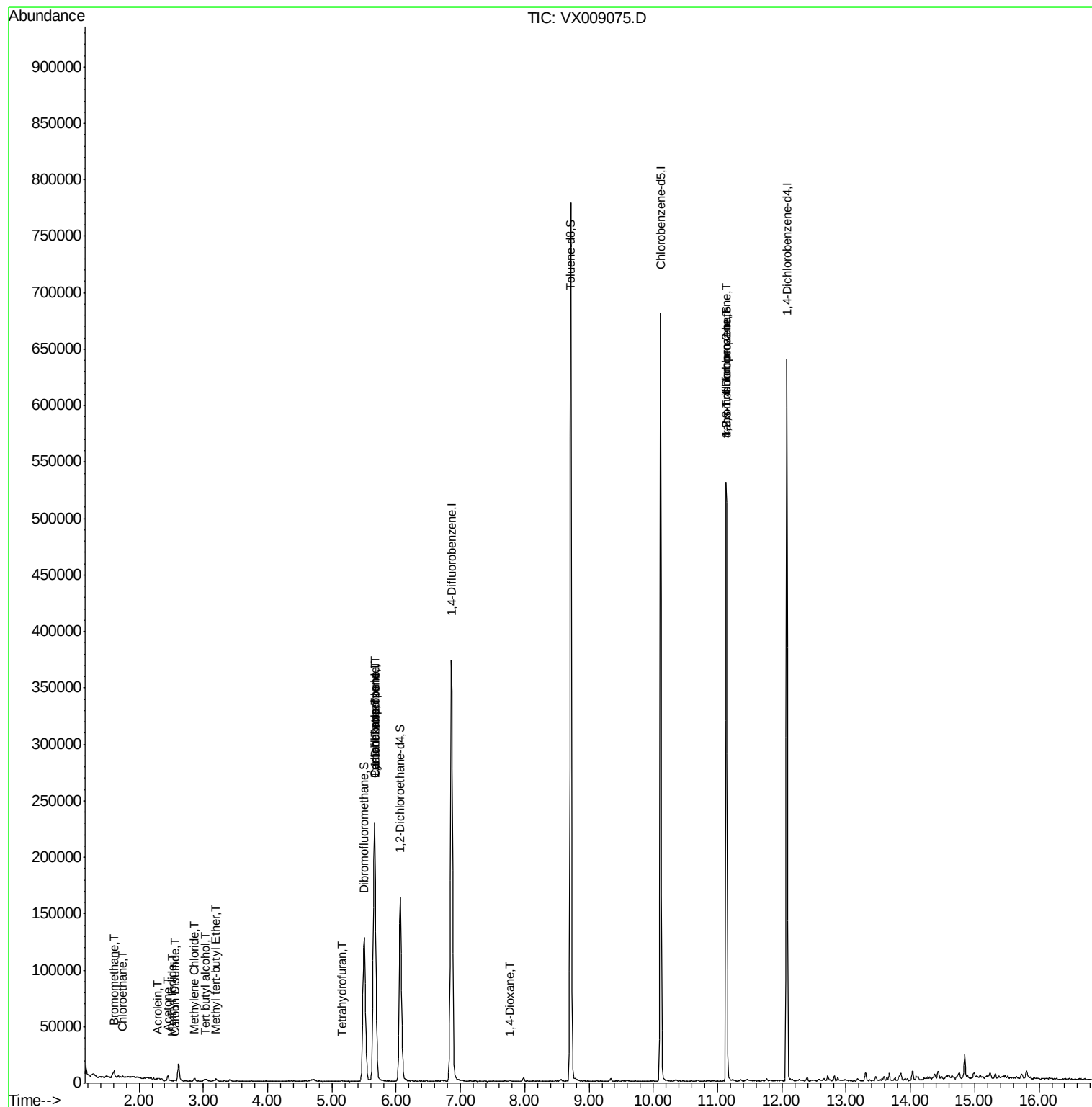
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	184	3.937	ug/l #	3
6) Chloroethane	1.75	64	1356	0.755	ug/l #	49
10) Methyl Iodide	2.51	142	19	4.421	ug/l #	42
11) Tert butyl alcohol	3.03	59	1142	1.646	ug/l #	86
13) Acrolein	2.29	56	176	0.294	ug/l #	65
16) Acetone	2.45	43	4867	3.002	ug/l	89
17) Carbon Disulfide	2.57	76	690	1.349	ug/l #	75
19) Methyl tert-butyl Ether	3.20	73	1844	0.218	ug/l #	76
20) Methylene Chloride	2.85	84	920	0.332	ug/l #	94
28) Bromochloromethane	5.00	49	101	Below Cal	#	21
29) Tetrahydrofuran	5.15	42	442	0.255	ug/l #	65
31) Cyclohexane	5.66	56	5350	1.074	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17501	4.651	ug/l #	50
38) Carbon Tetrachloride	5.66	117	21477	6.733	ug/l #	18
49) 1,4-Dioxane	7.77	88	68	0.942	ug/l #	63
76) 1,2,3-Trichloropropane	11.13	75	74049	23.522	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	74049	60.388	ug/l #	10

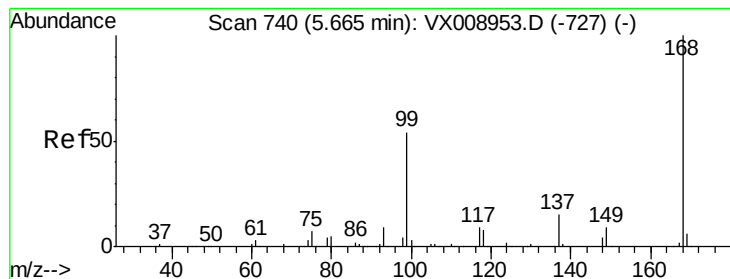
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 17 06:47:58 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampleId :

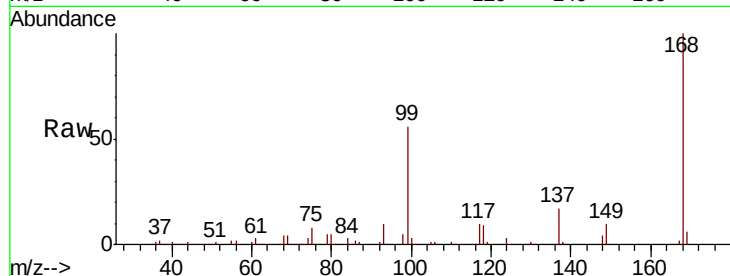
GMW-7

Tot Ion:168 Resp: 221823

Ion Ratio Lower Upper

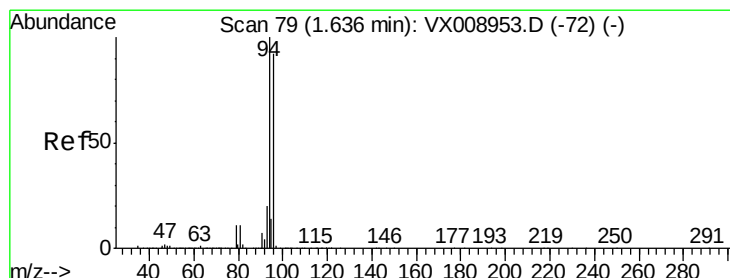
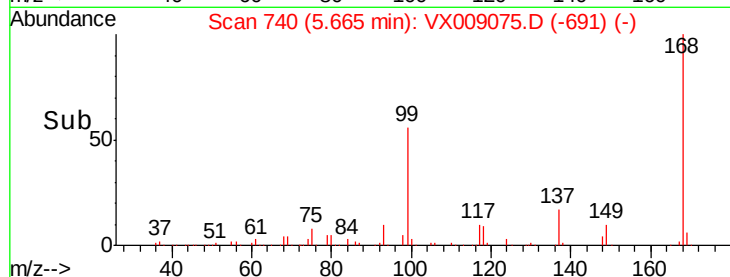
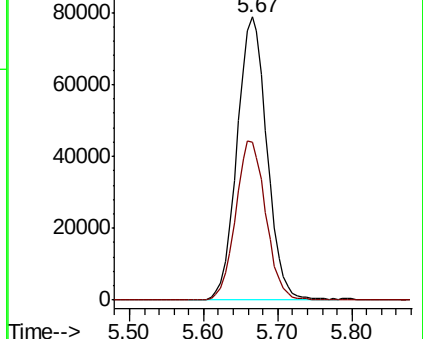
168 100

99 55.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 3.937 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX009075.D

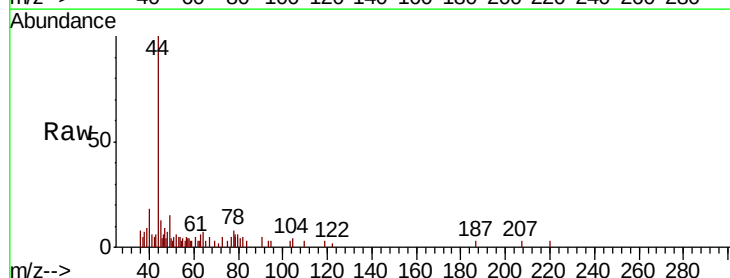
Acq: 19 Apr 2019 17:04

Tgt Ion: 94 Resp: 184

Ion Ratio Lower Upper

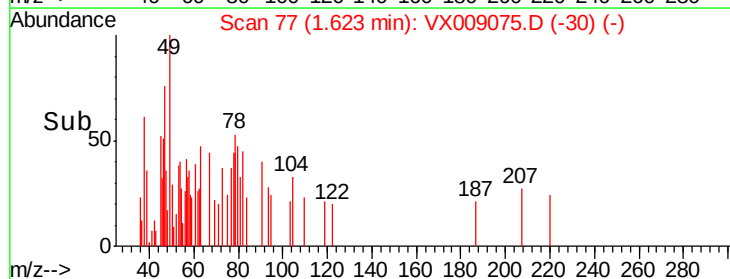
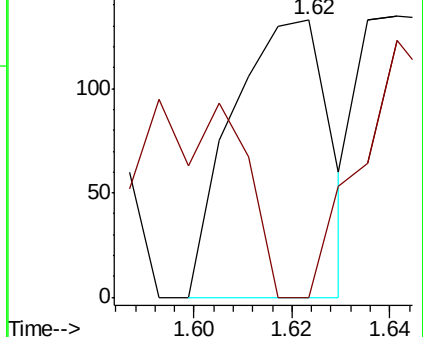
94 100

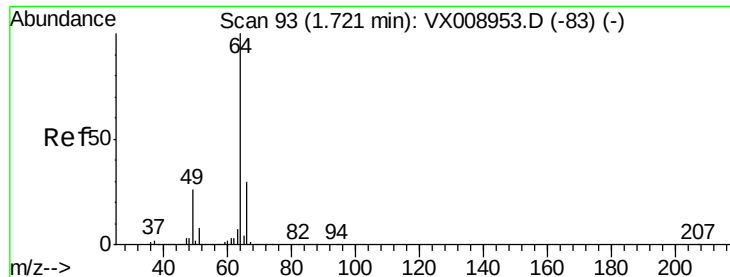
96 0.0 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.755 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.02 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampled :

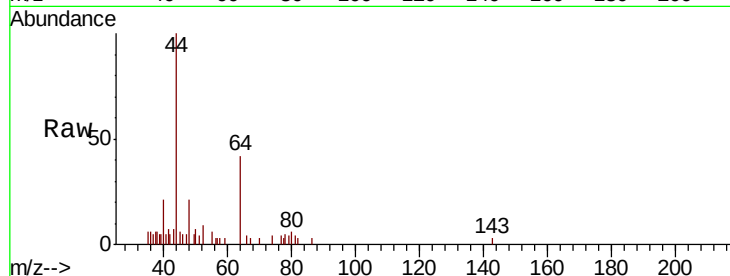
GMW-7

Tot Ion: 64 Resp: 1356

Ion Ratio Lower Upper

64 100

66 2.4 24.2 36.2#

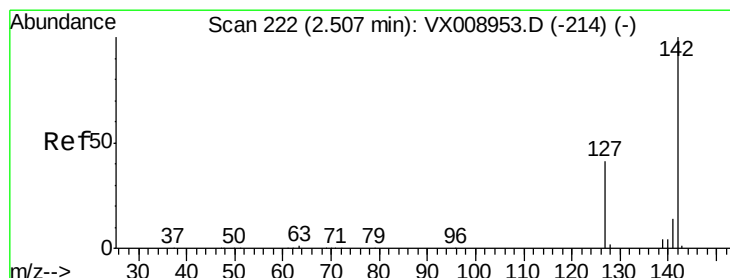
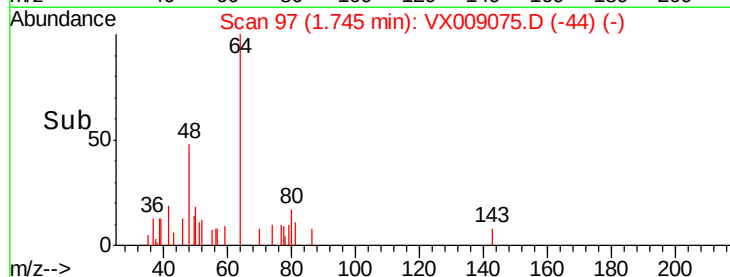


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

Time-->



#10

Methyl Iodide

Concen: 4.421 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

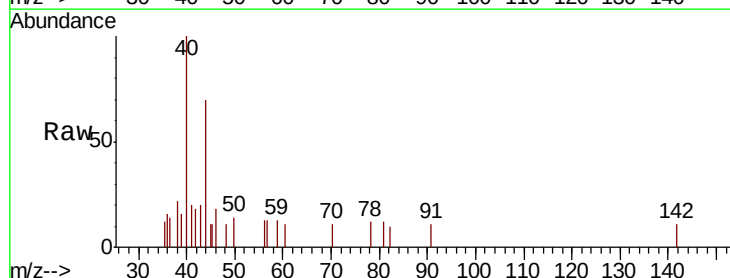
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



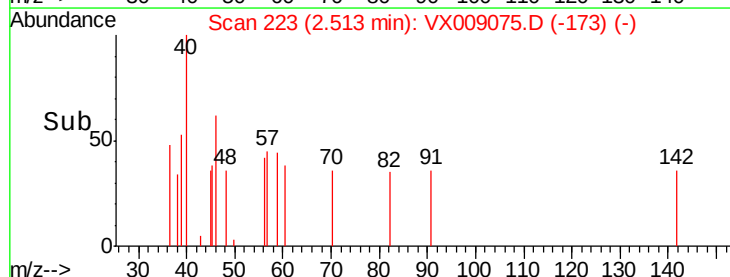
Abundance Ion 141.80 (141.50 to 142.50): V

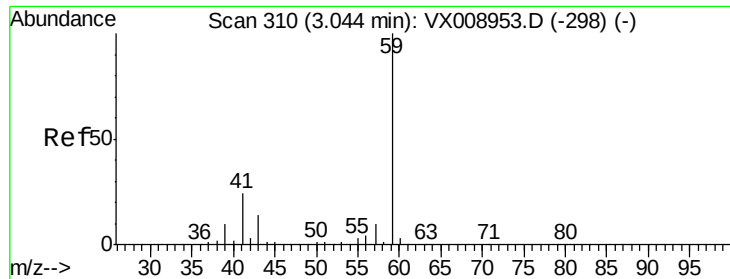
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

Time-->

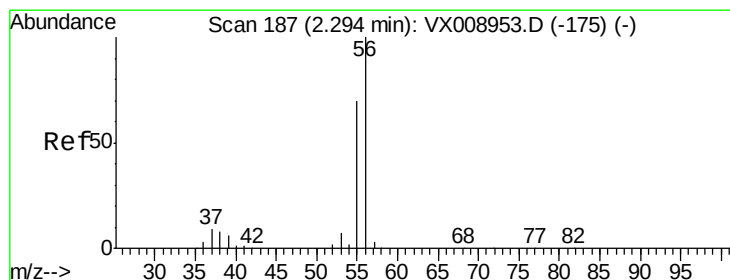
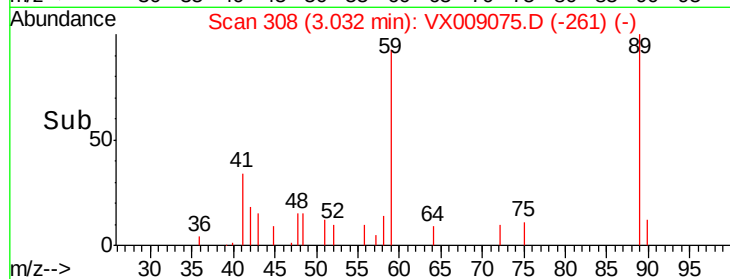
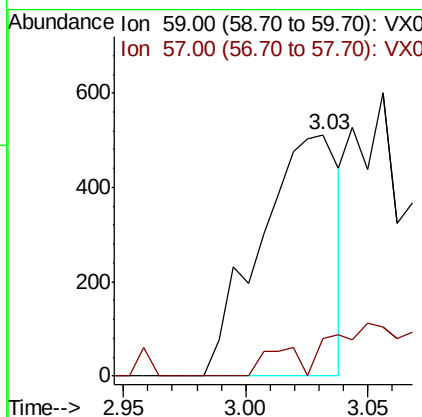
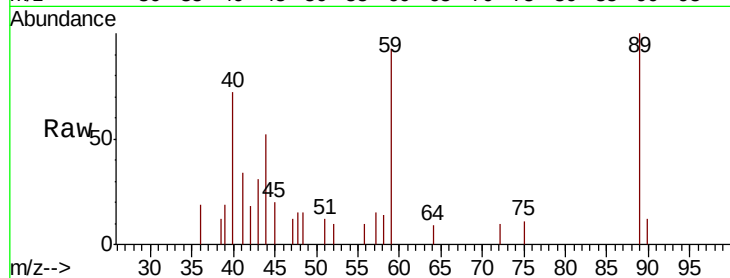




#11
Tert butyl alcohol
Concen: 1.646 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.01 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

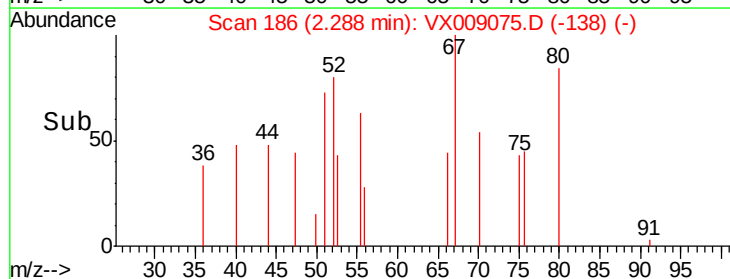
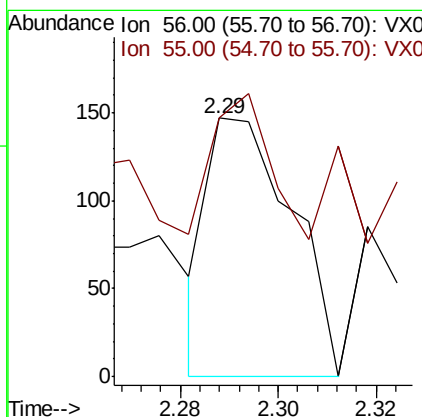
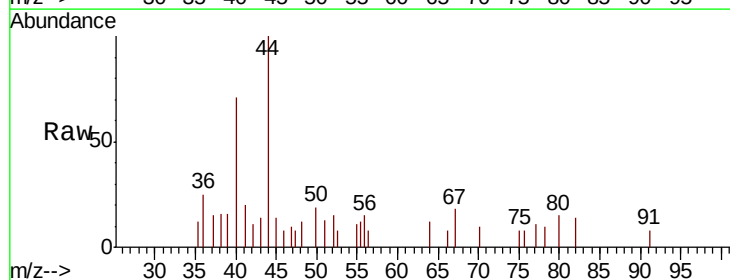
Instrument :
MSVOA_X
ClientSampleId :
GMW-7

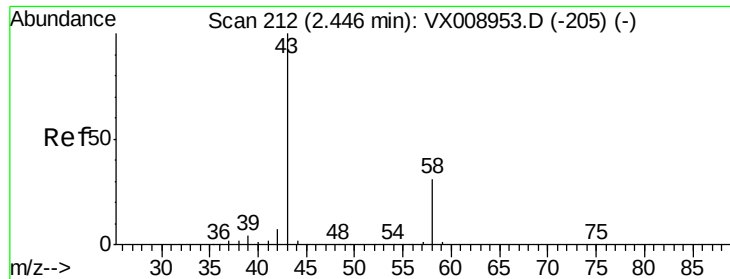
Tot Ion: 59 Resp: 1142
Ion Ratio Lower Upper
59 100
57 5.3 8.4 12.6#



#13
Acrolein
Concen: 0.294 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Tgt Ion: 56 Resp: 176
Ion Ratio Lower Upper
56 100
55 42.0 56.6 84.8#





#16

Acetone

Concen: 3.002 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampleId :

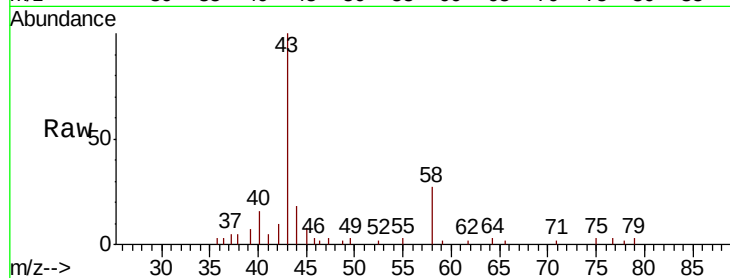
GMW-7

Tot Ion: 43 Resp: 4867

Ion Ratio Lower Upper

43 100

58 25.2 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

2500

2000

1500

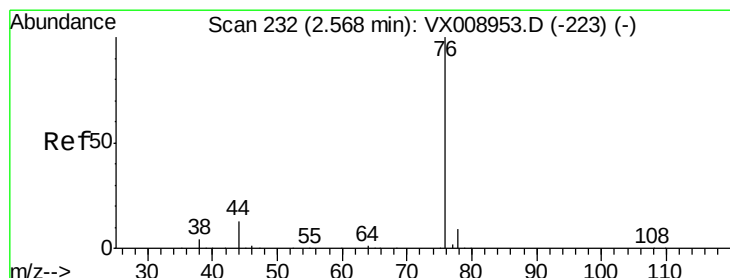
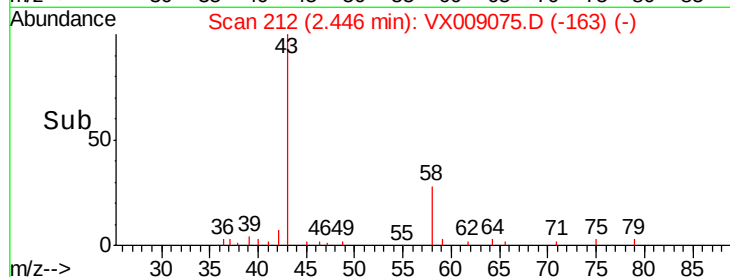
1000

500

0

Time-->

2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 1.349 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009075.D

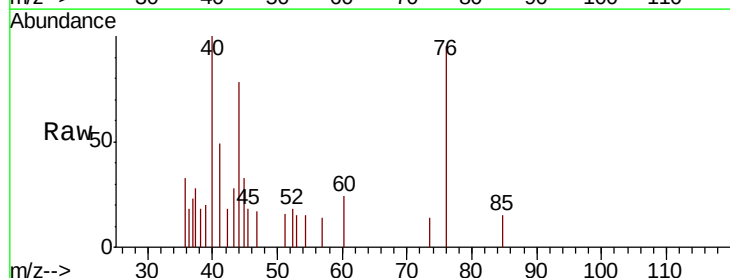
Acq: 19 Apr 2019 17:04

Tgt Ion: 76 Resp: 690

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

400

300

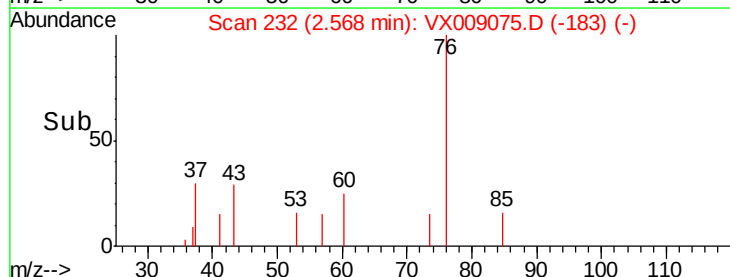
200

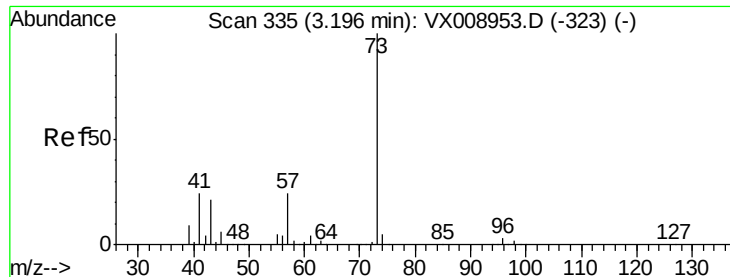
100

0

Time-->

2.50 2.55 2.60



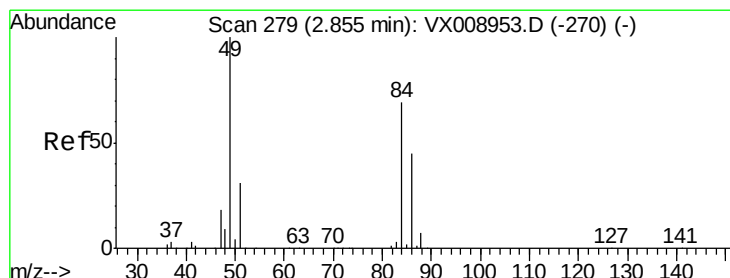
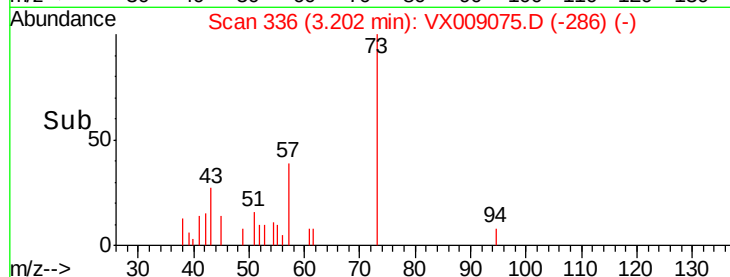
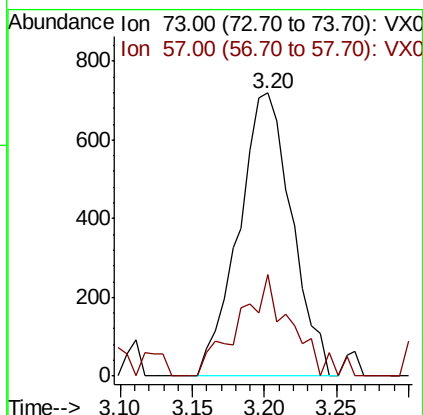
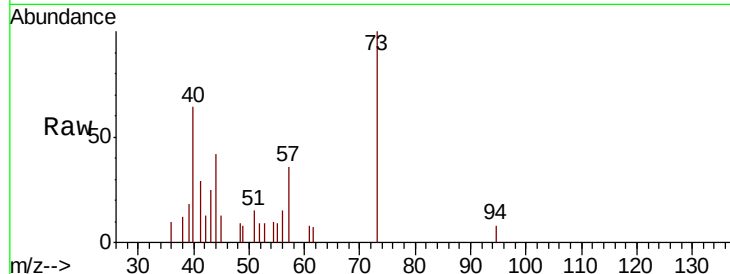


#19

Methvl tert-butvl Ether
 Concen: 0.218 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VX009075.D
 Acq: 19 Apr 2019 17:04

Instrument :
 MSVOA_X
 ClientSampleId :
 GMW-7

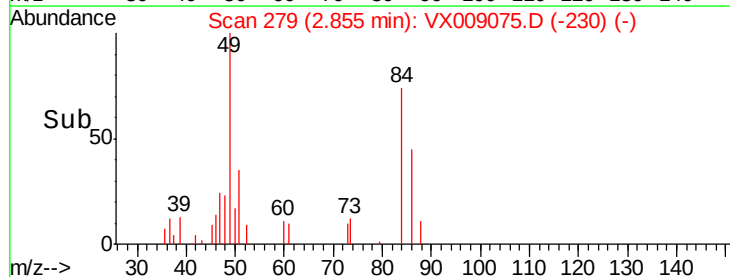
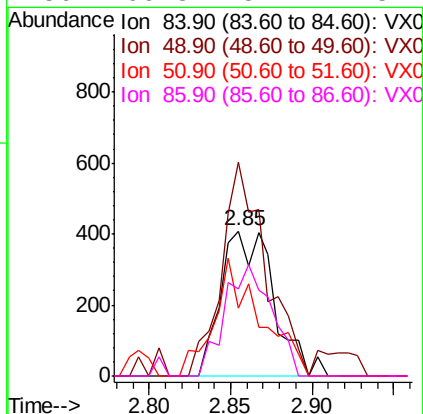
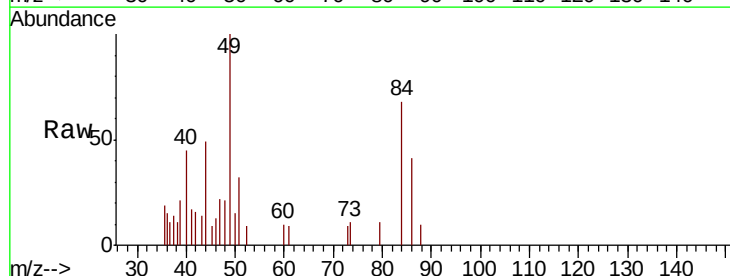
Tot Ion: 73 Resp: 1844
 Ion Ratio Lower Upper
 73 100
 57 36.0 19.2 28.8#

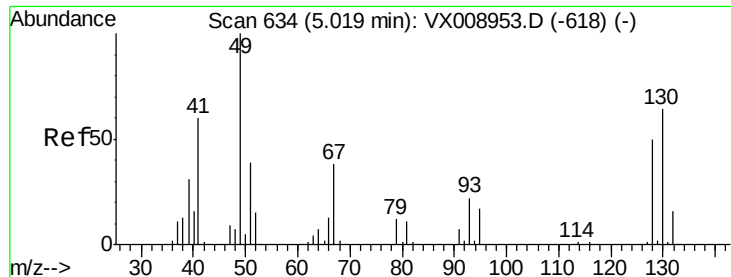


#20

Methylene Chloride
 Concen: 0.332 ug/l
 RT: 2.85 min Scan# 279
 Delta R.T. -0.00 min
 Lab File: VX009075.D
 Acq: 19 Apr 2019 17:04

Tgt Ion: 84 Resp: 920
 Ion Ratio Lower Upper
 84 100
 49 147.5 115.4 173.0
 51 32.6 35.8 53.6#
 86 60.3 52.1 78.1





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampled :

GMW-7

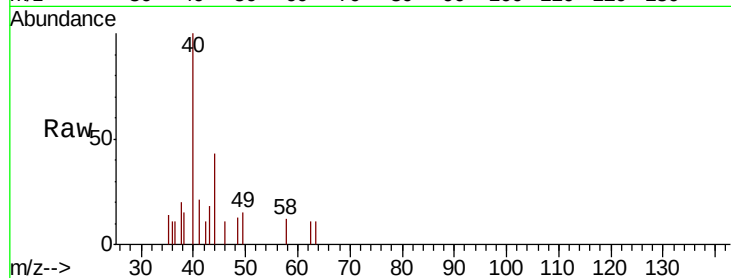
Tot Ion: 49 Resp: 101

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

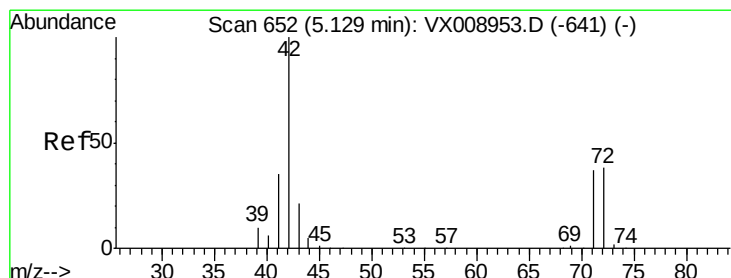
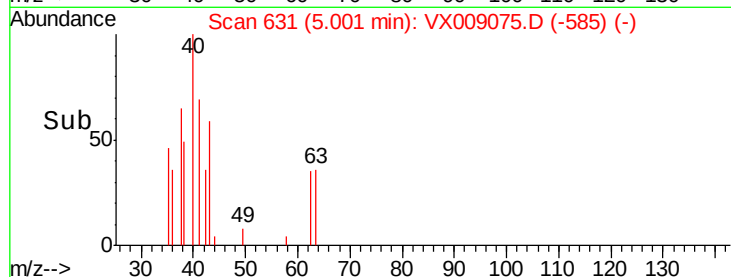
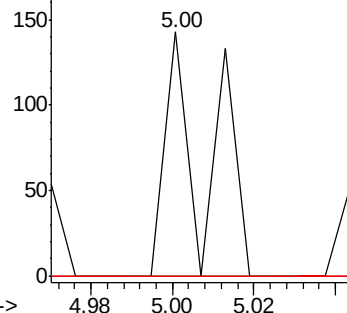
130 0.0 50.4 75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.255 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

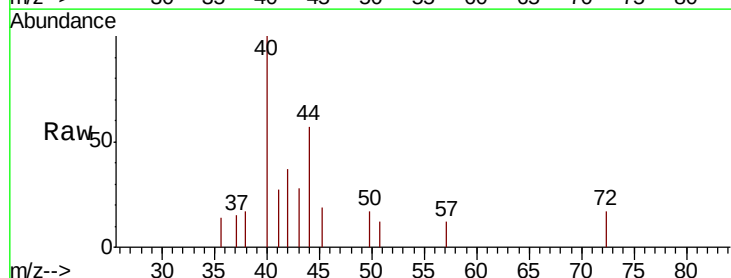
Tgt Ion: 42 Resp: 442

Ion Ratio Lower Upper

42 100

72 32.4 30.6 45.8

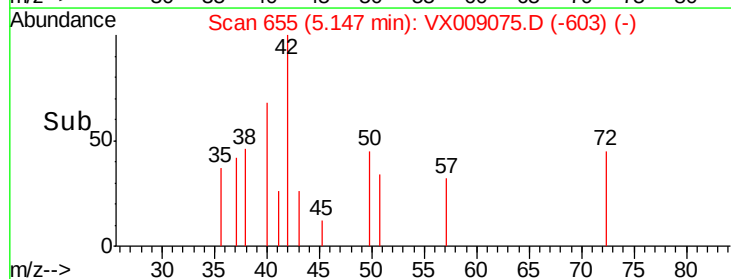
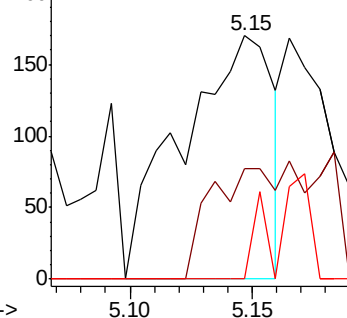
71 0.0 28.8 43.2#

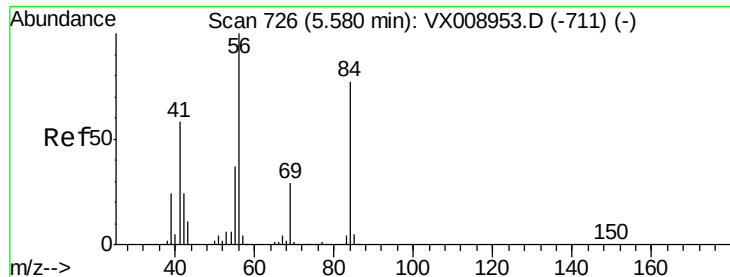


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

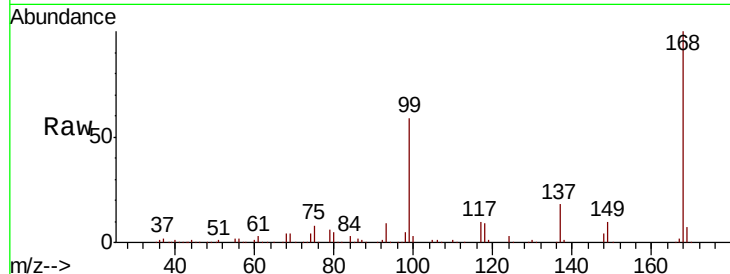




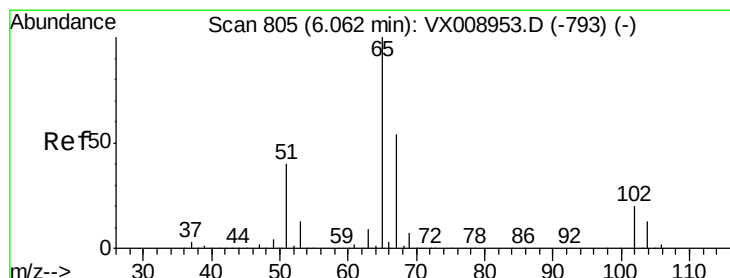
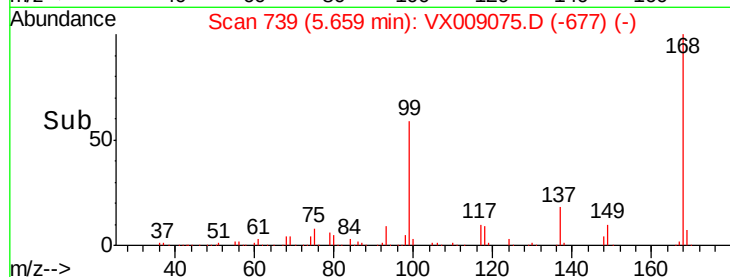
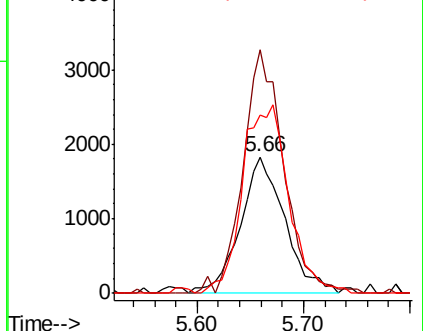
#31
Cyclohexane
Concen: 1.074 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Instrument :
MSVOA_X
ClientSampleId :
GMW-7

Tot Ion: 56 Resp: 5350
Ion Ratio Lower Upper
56 100
69 178.4 23.3 34.9#
84 127.3 61.7 92.5#

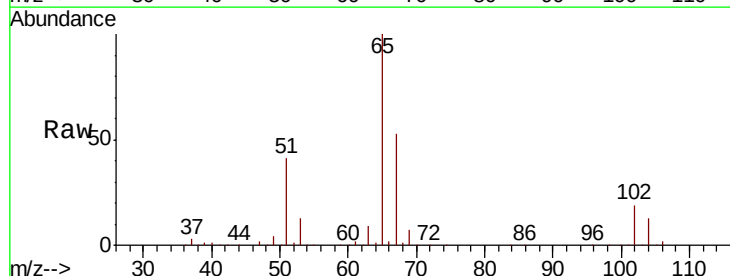


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

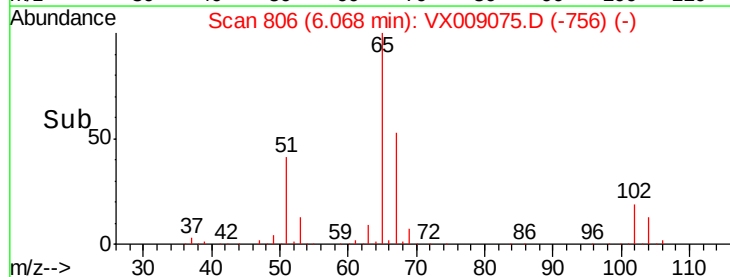
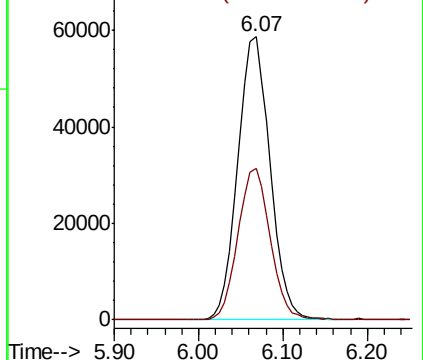


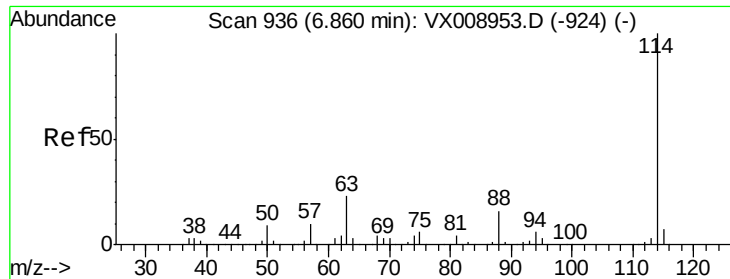
#33
1,2-Dichloroethane-d4
Concen: 48.703 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Tgt Ion: 65 Resp: 152251
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

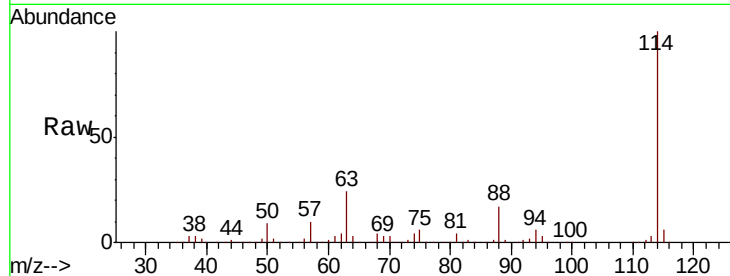




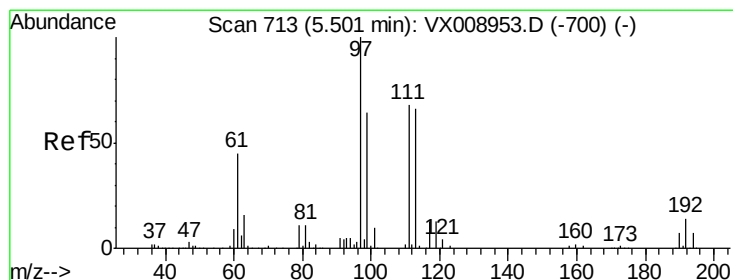
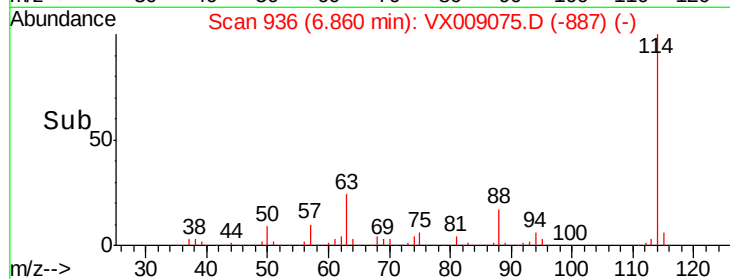
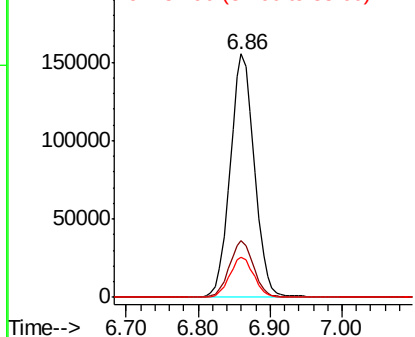
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Instrument :
MSVOA_X
ClientSampleId :
GMW-7

Tot Ion:114 Resp: 363806
Ion Ratio Lower Upper
114 100
63 23.6 0.0 46.0
88 16.7 0.0 32.6

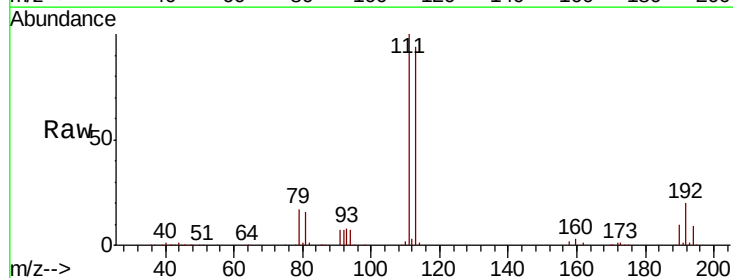


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

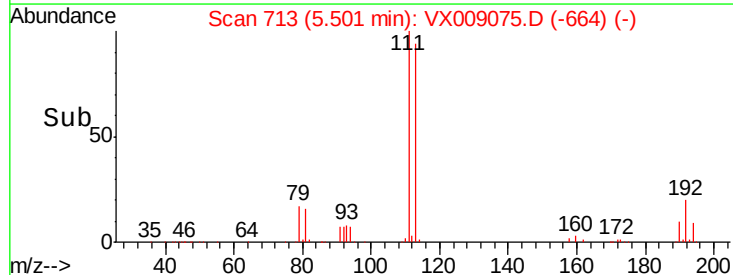
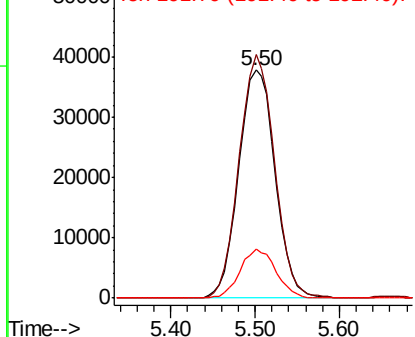


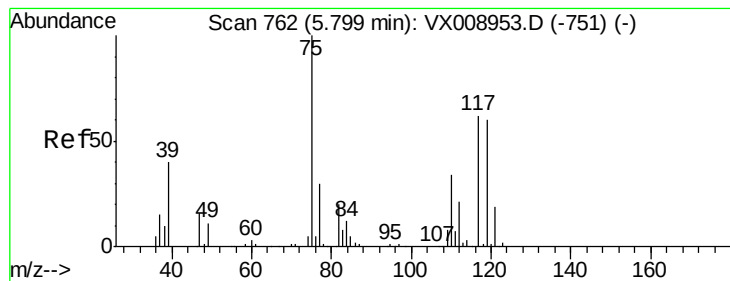
#35
Dibromofluoromethane
Concen: 47.428 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Tgt Ion:113 Resp: 110735
Ion Ratio Lower Upper
113 100
111 104.0 82.9 124.3
192 21.2 17.4 26.0



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: 4.651 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampleId :

GMW-7

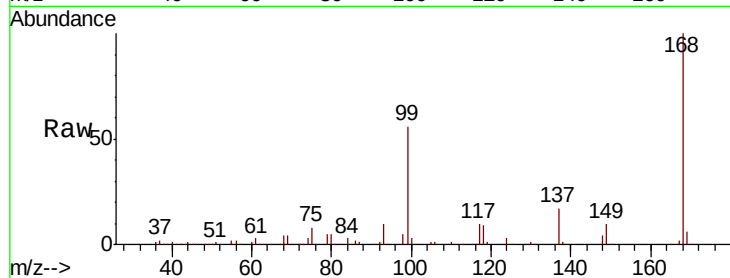
Tot Ion: 75 Resp: 17501

Ion Ratio Lower Upper

75 100

110 9.1 16.9 50.7#

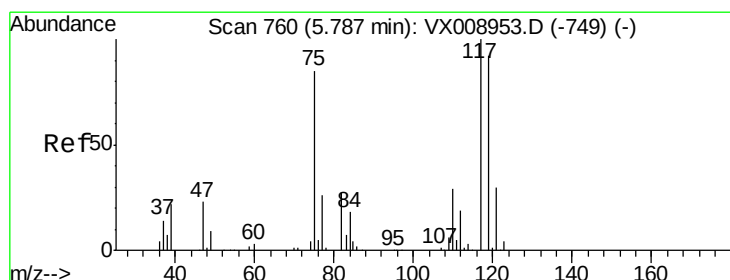
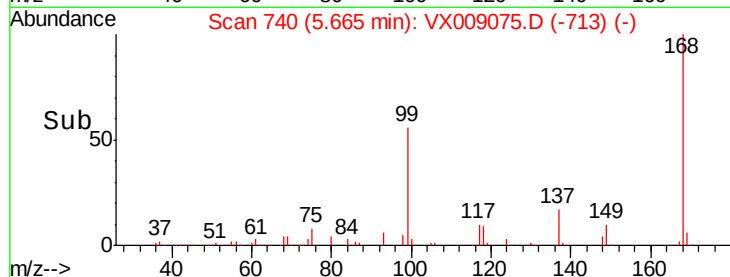
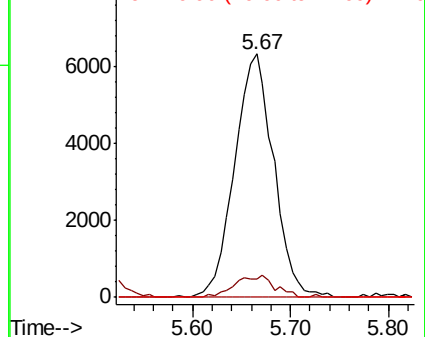
77 0.0 25.0 37.4#



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: 6.733 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

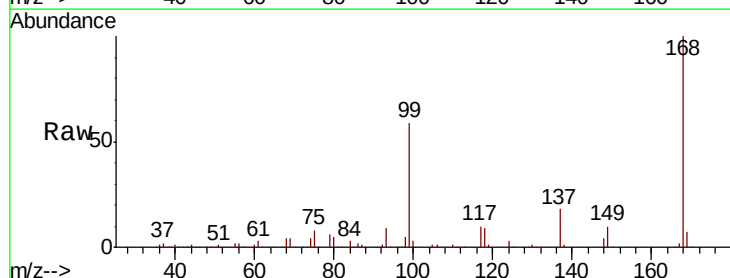
Tgt Ion: 117 Resp: 21477

Ion Ratio Lower Upper

117 100

119 6.2 73.8 110.8#

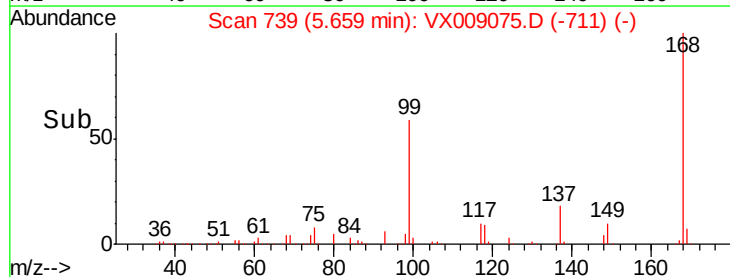
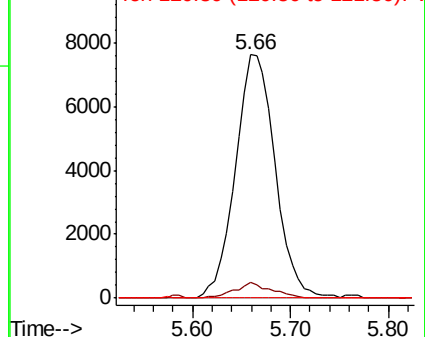
121 0.0 23.6 35.4#

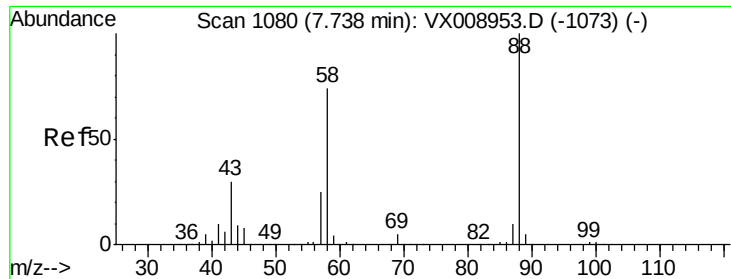


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.942 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampled :

GMW-7

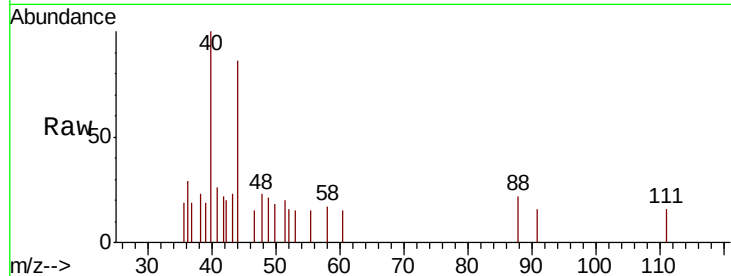
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 29.3 43.9#

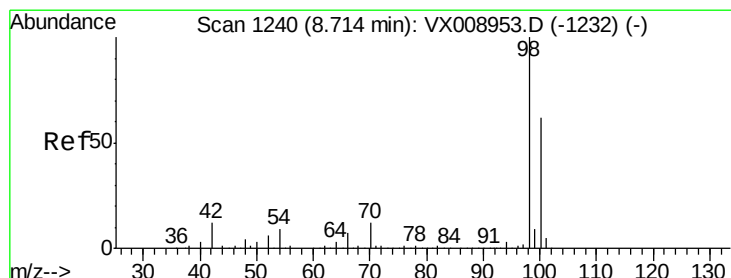
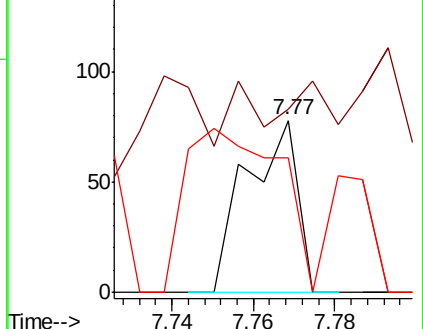
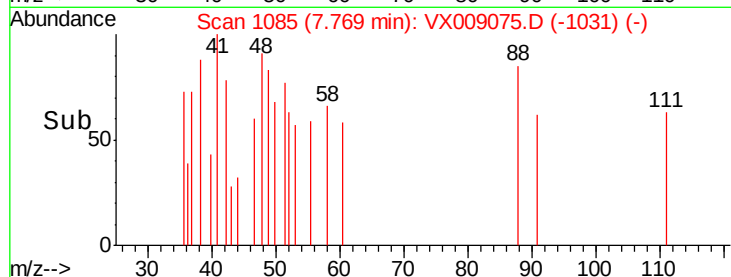
58 55.9 62.6 93.8#



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: 48.179 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009075.D

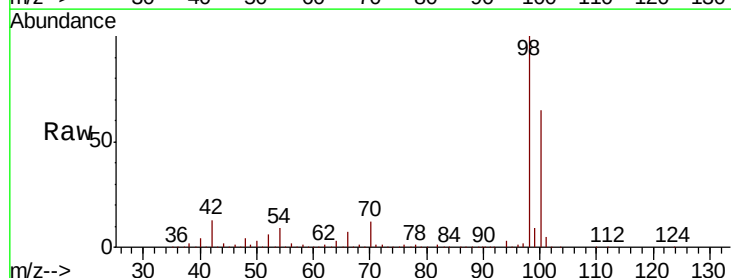
Acq: 19 Apr 2019 17:04

Tgt Ion: 98 Resp: 448614

Ion Ratio Lower Upper

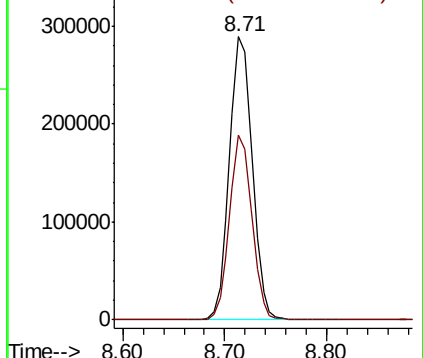
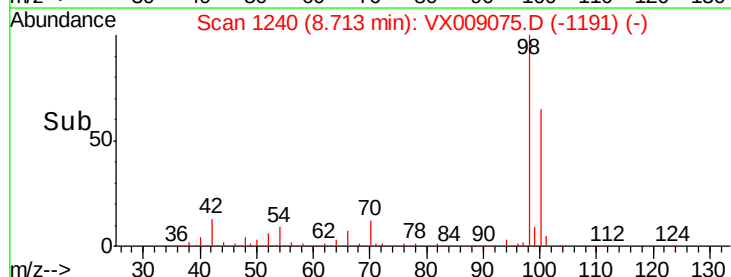
98 100

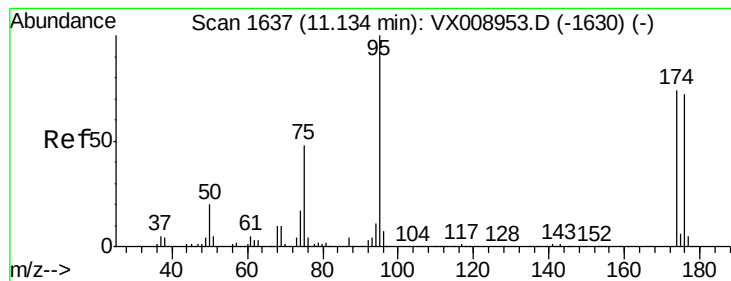
100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.384 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampleId :

GMW-7

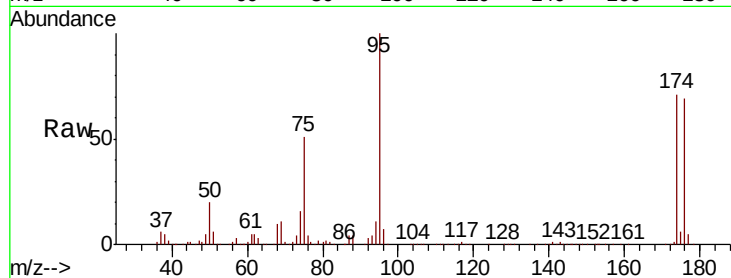
Tot Ion: 95 Resp: 145889

Ion Ratio Lower Upper

95 100

174 78.0 0.0 159.6

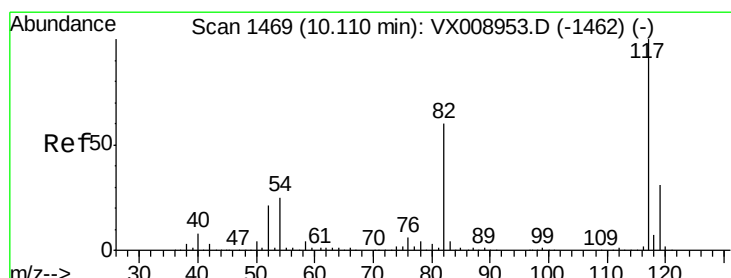
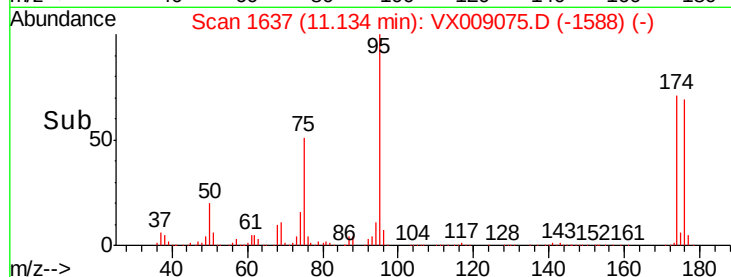
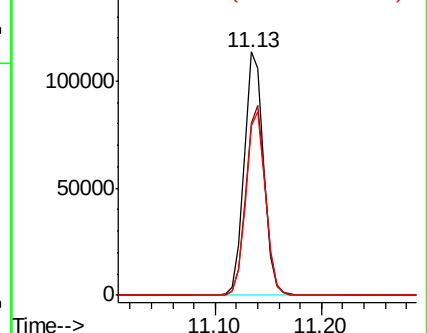
176 75.7 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

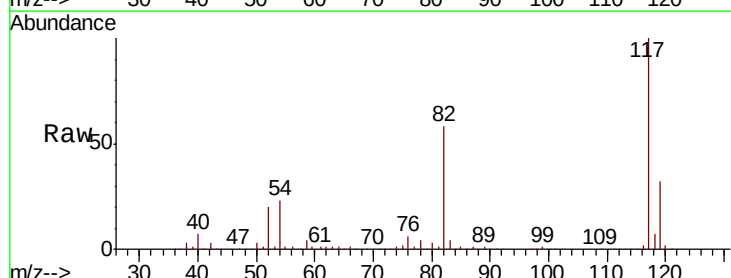
Tgt Ion: 117 Resp: 308713

Ion Ratio Lower Upper

117 100

82 58.0 48.2 72.4

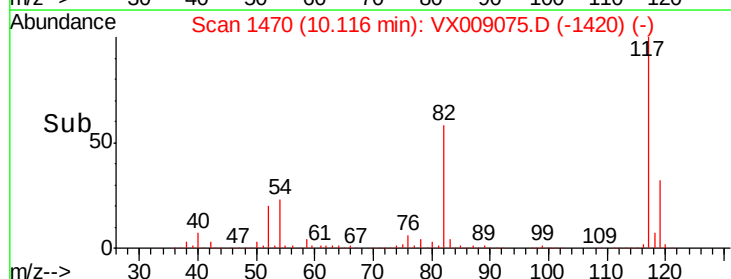
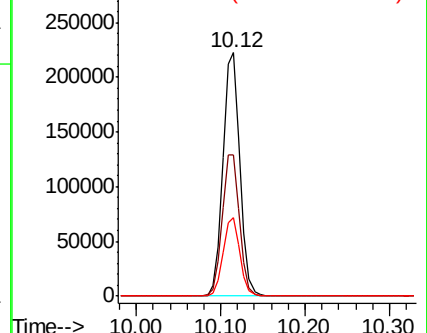
119 32.4 25.0 37.6

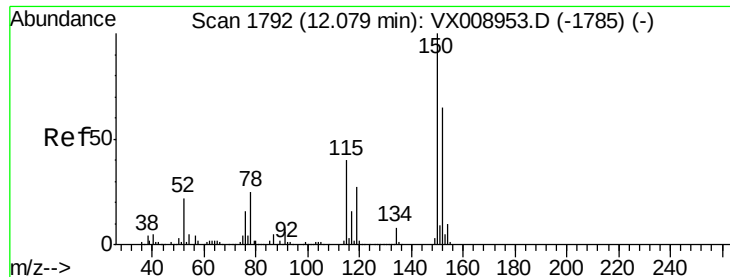


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)



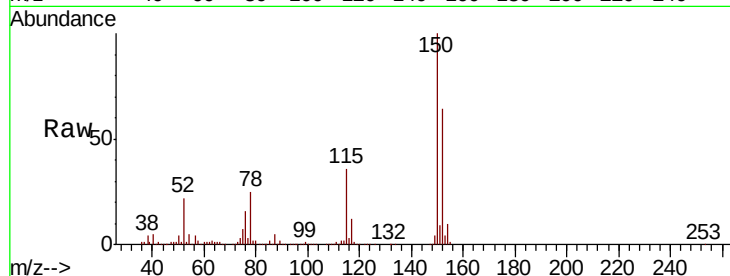


#72

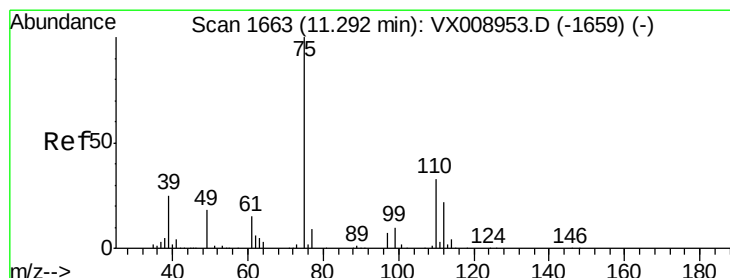
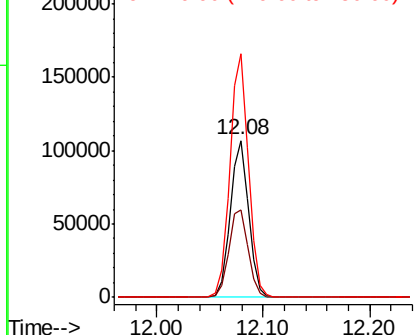
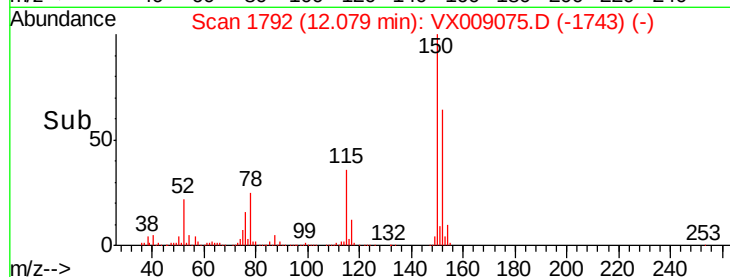
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Instrument :
MSVOA_X
ClientSampled :
GMW-7

Tot Ion:152 Resp: 128924
Ion Ratio Lower Upper
152 100
115 59.1 41.4 124.2
150 156.5 0.0 349.8



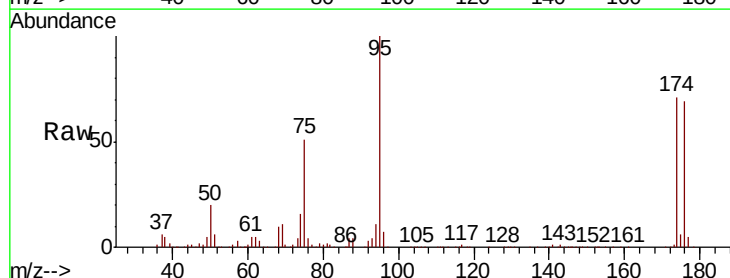
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



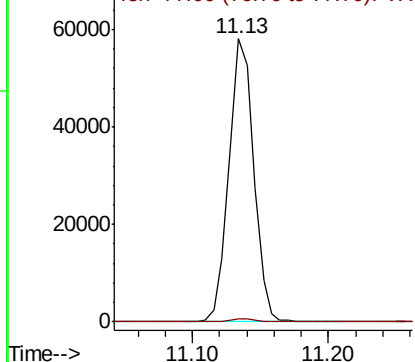
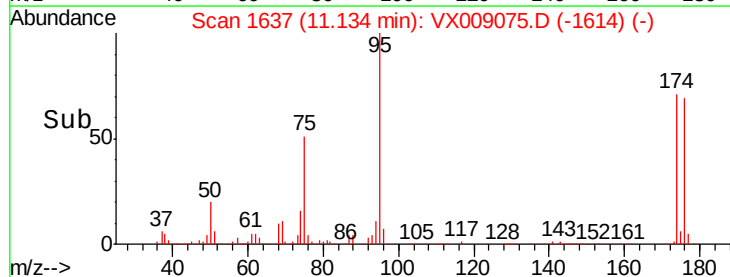
#76

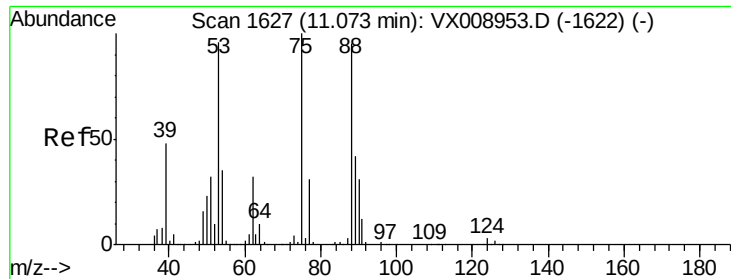
1,2,3-Trichloropropane
Concen: 23.522 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009075.D
Acq: 19 Apr 2019 17:04

Tgt Ion: 75 Resp: 74049
Ion Ratio Lower Upper
75 100
77 1.3 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.388 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009075.D

Acq: 19 Apr 2019 17:04

Instrument :

MSVOA_X

ClientSampleId :

GMW-7

Tot Ion: 75 Resp: 74049

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 36.0 54.0#

