

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011334.D
 Acq On : 05 Aug 2019 18:24
 Operator : JC/SP
 Sample : K4130-36
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:40:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	180764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	264367	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108489	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	88732	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	5.49	113	79131	45.85	ug/l	0.00
Spiked Amount			Recovery	=	91.70%	
50) Toluene-d8	8.71	98	316660	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.13	95	99885	42.94	ug/l	0.00
Spiked Amount			Recovery	=	85.88%	

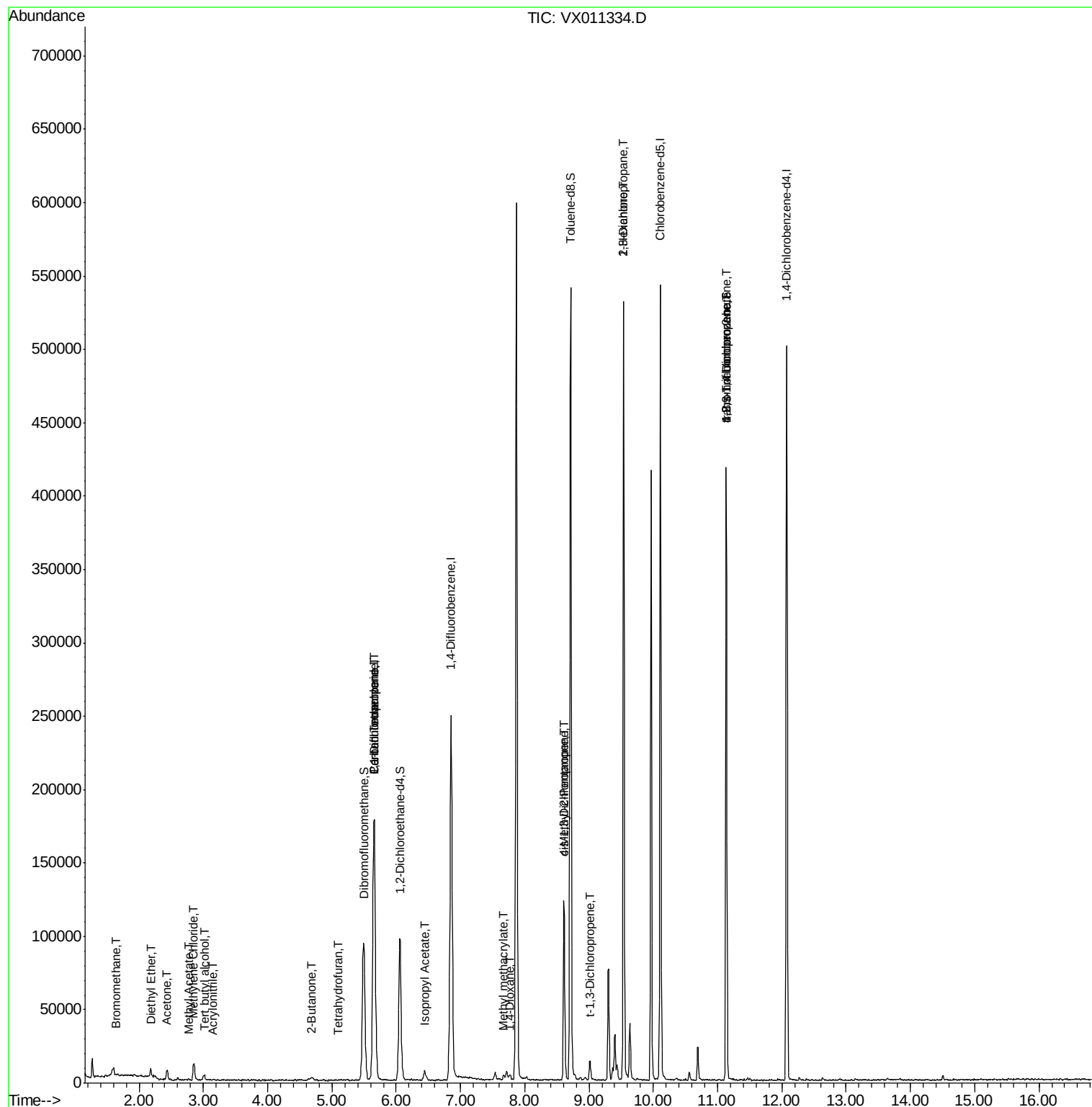
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	357	0.290	ug/l	88
6) Chloroethane	1.70	64	647	Below Cal	#	43
8) Diethyl Ether	2.18	74	1845	1.685	ug/l	90
11) Tert butyl alcohol	3.01	59	2292	6.336	ug/l #	83
13) Acrolein	2.29	56	52	Below Cal	#	1
15) Acrylonitrile	3.14	53	267	0.308	ug/l #	71
16) Acetone	2.43	43	7621	8.795	ug/l	96
18) Methyl Acetate	2.77	43	1394	0.704	ug/l #	80
20) Methylene Chloride	2.85	84	5294	2.790	ug/l	91
25) 2-Butanone	4.68	43	1112	0.902	ug/l #	76
29) Tetrahydrofuran	5.10	42	250	0.331	ug/l #	29
36) 1,1-Dichloropropene	5.65	75	12022	5.208	ug/l #	44
38) Carbon Tetrachloride	5.65	117	16881	7.269	ug/l #	15
43) Isopropyl Acetate	6.44	43	8217	2.220	ug/l	94
48) Methyl methacrylate	7.67	41	3894	2.235	ug/l #	10
49) 1,4-Dioxane	7.76	88	71	1.406	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	39146	16.387	ug/l #	49
53) t-1,3-Dichloropropene	9.02	75	44	2.855	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20551	7.980	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	4897	1.654	ug/l #	42
59) 2-Hexanone	9.54	43	59372	32.087	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	50125	25.371	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	50125	66.139	ug/l #	10

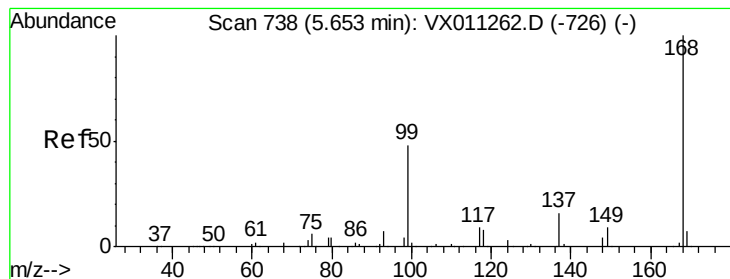
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 06 02:40:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

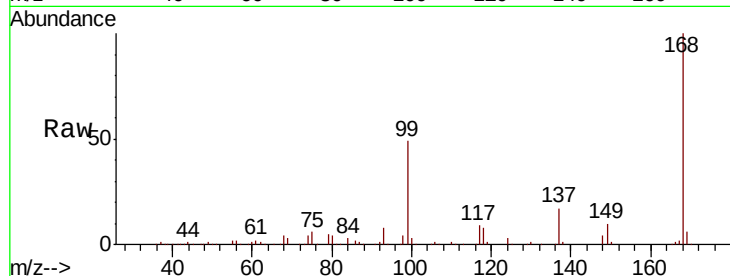
ClientSampleId :

Tot Ion:168 Resp: 180764

Ion Ratio Lower Upper

168 100

99 49.2 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

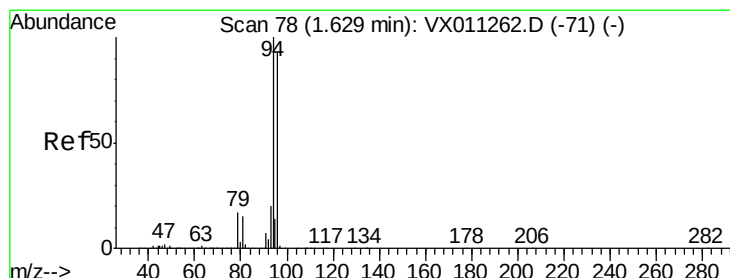
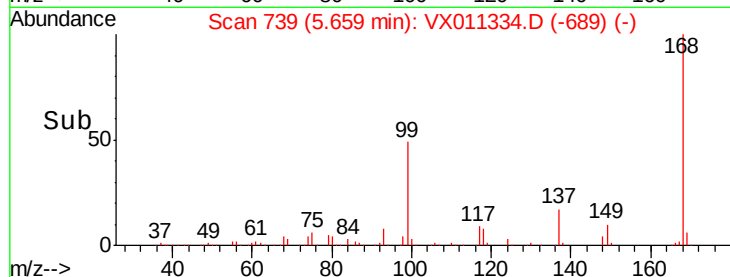
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.290 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011334.D

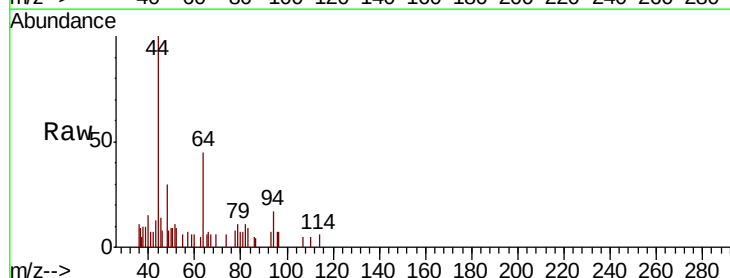
Acq: 05 Aug 2019 18:24

Tgt Ion: 94 Resp: 357

Ion Ratio Lower Upper

94 100

96 81.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

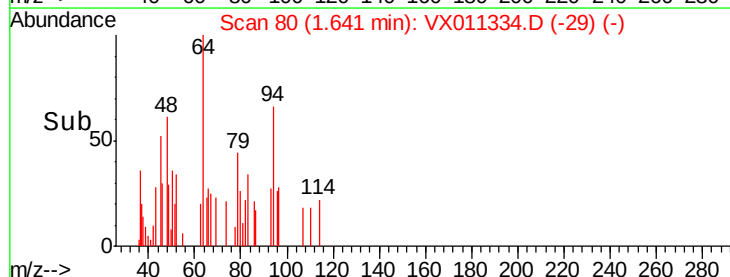
150

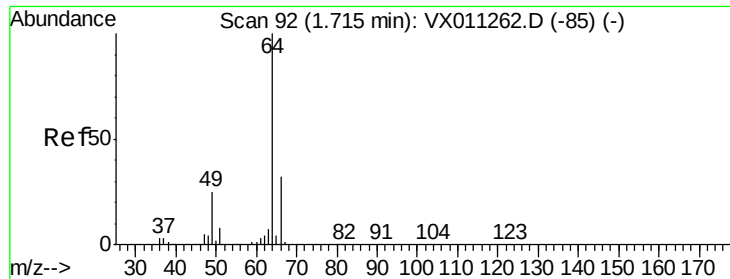
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

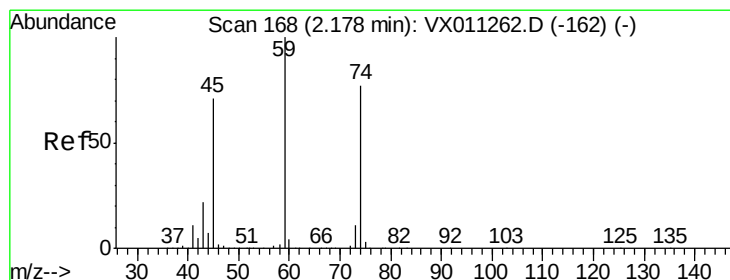
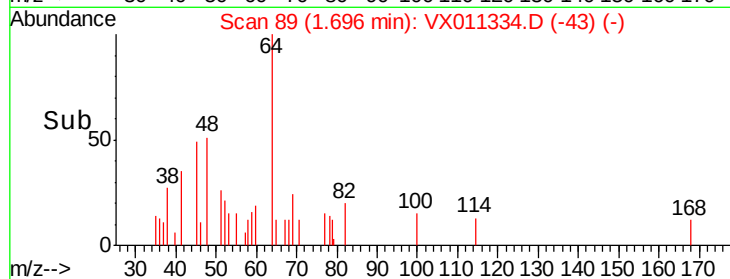
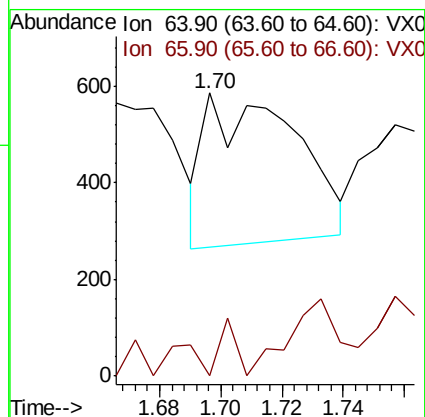
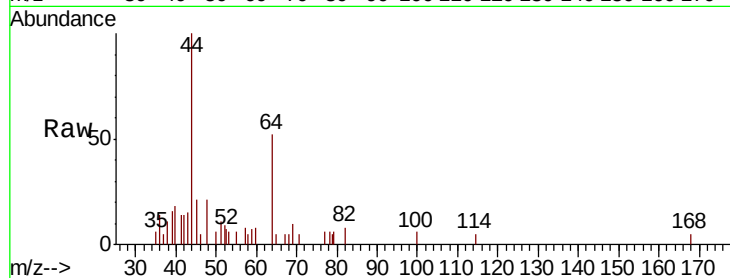
ClientSampleId :

Tot Ion: 64 Resp: 647

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#8

Diethyl Ether

Concen: 1.685 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011334.D

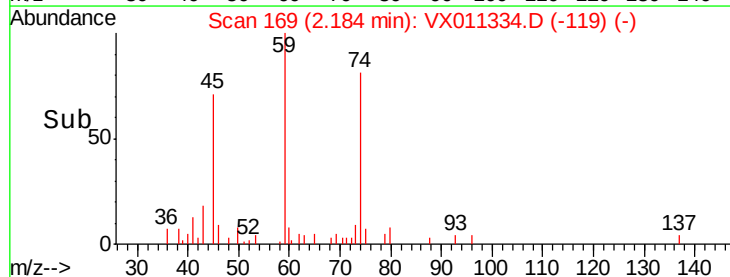
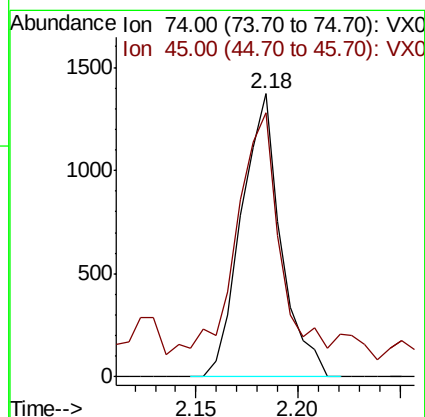
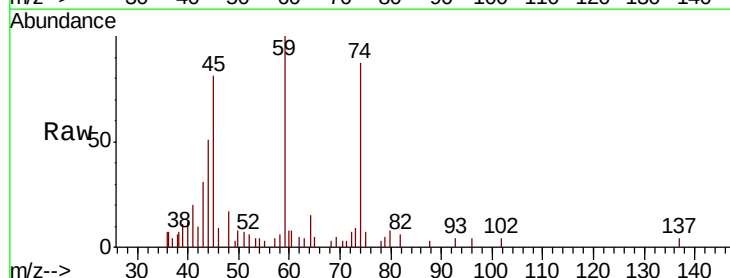
Acq: 05 Aug 2019 18:24

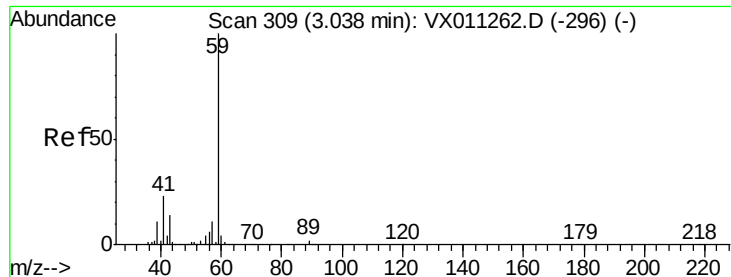
Tgt Ion: 74 Resp: 1845

Ion Ratio Lower Upper

74 100

45 83.1 46.1 138.3



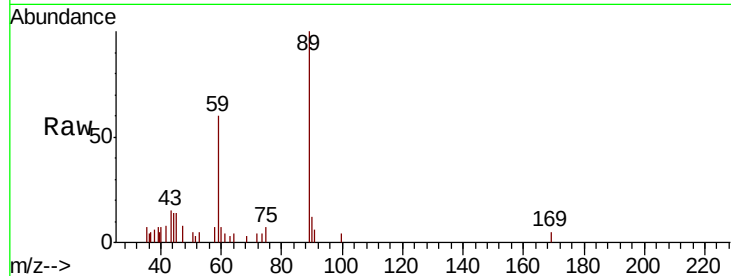


#11

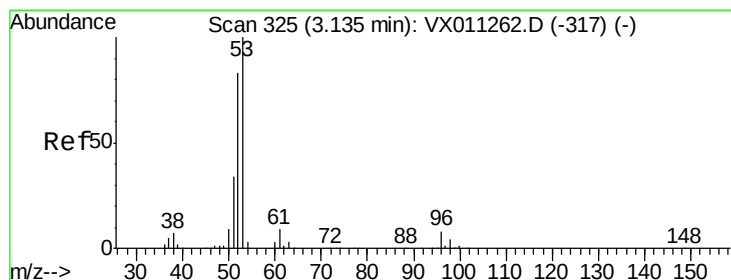
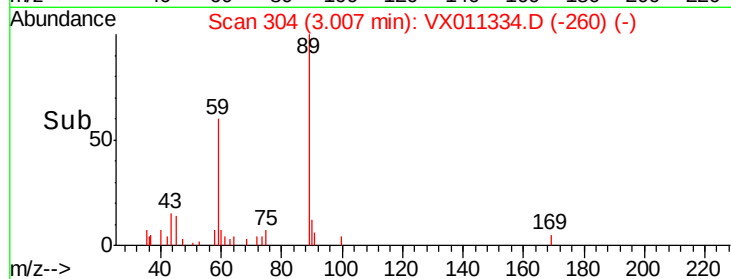
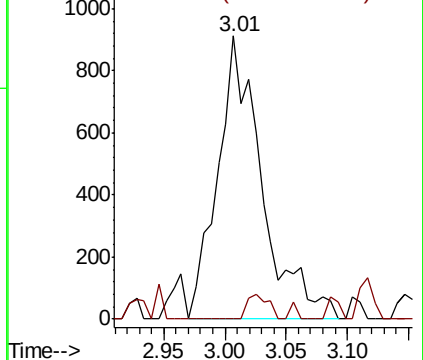
Tert butyl alcohol
Concen: 6.336 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 59 Resp: 2292
Ion Ratio Lower Upper
59 100
57 4.2 8.3 12.5#



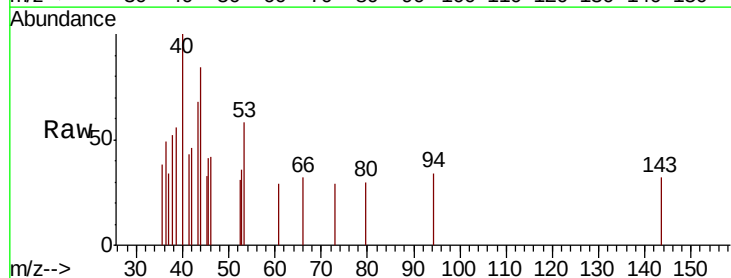
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



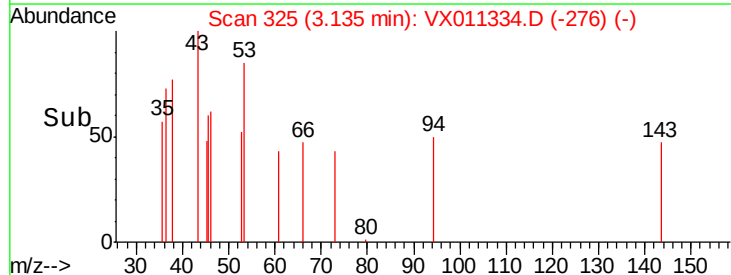
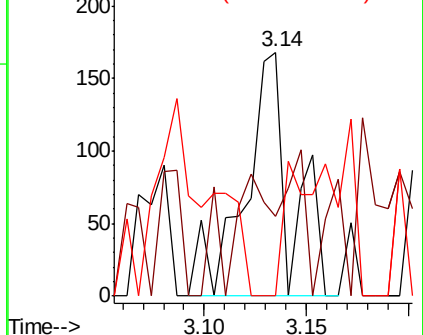
#15

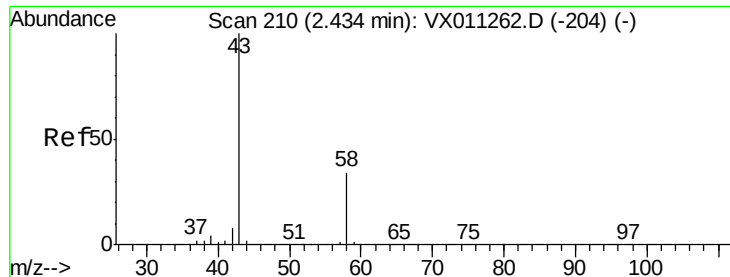
Acrylonitrile
Concen: 0.308 ug/l
RT: 3.14 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Tgt Ion: 53 Resp: 267
Ion Ratio Lower Upper
53 100
52 46.4 65.5 98.3#
51 31.8 27.9 41.9



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 8.795 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

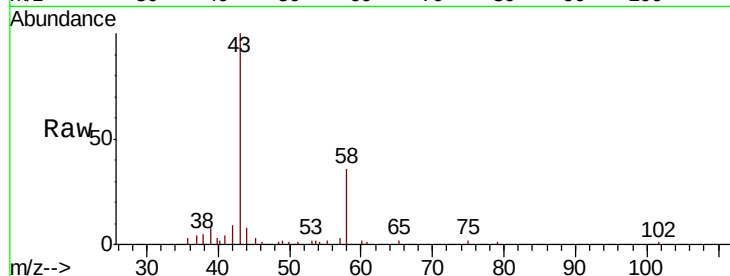
ClientSampled :

Tot Ion: 43 Resp: 7621

Ion Ratio Lower Upper

43 100

58 36.6 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

5000

4000

3000

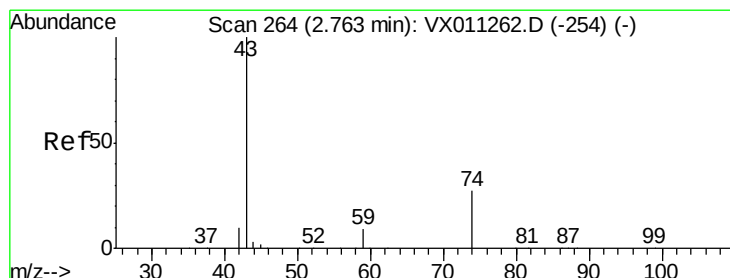
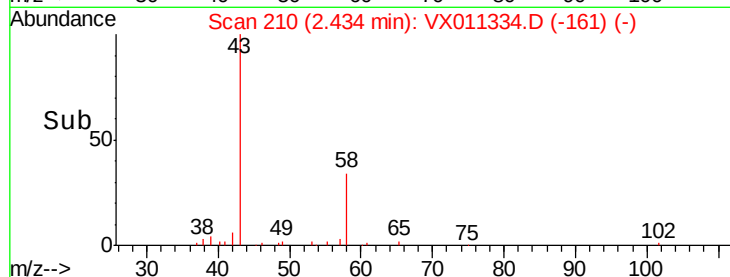
2000

1000

0

2.35 2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.704 ug/l

RT: 2.77 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX011334.D

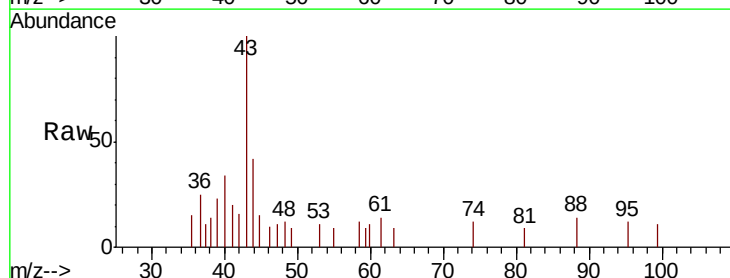
Acq: 05 Aug 2019 18:24

Tgt Ion: 43 Resp: 1394

Ion Ratio Lower Upper

43 100

74 16.1 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

600

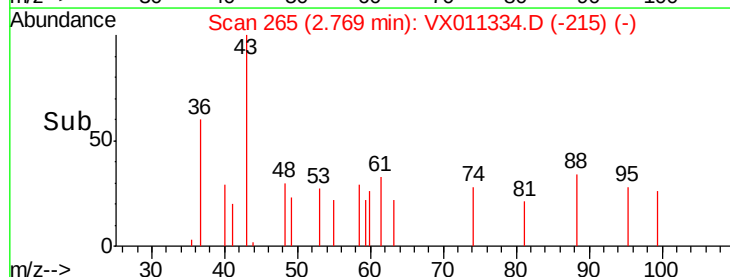
400

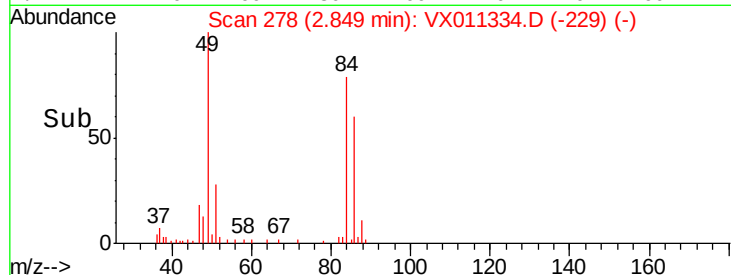
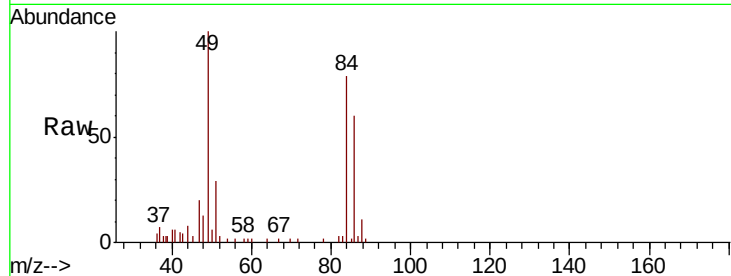
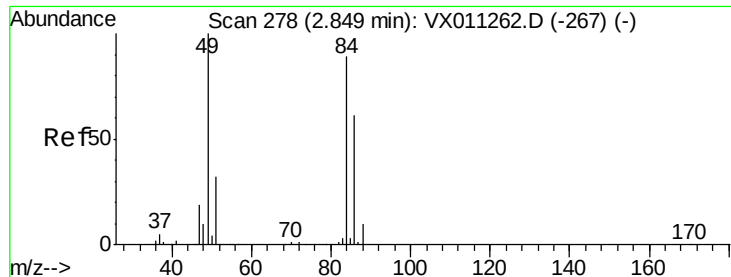
200

0

2.70 2.75 2.80 2.85

Time-->

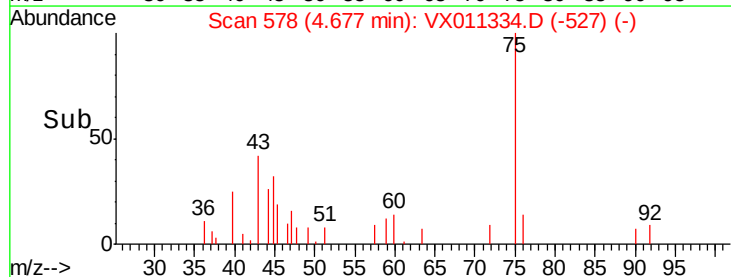
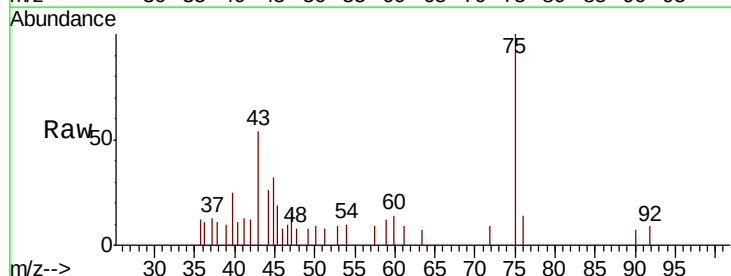
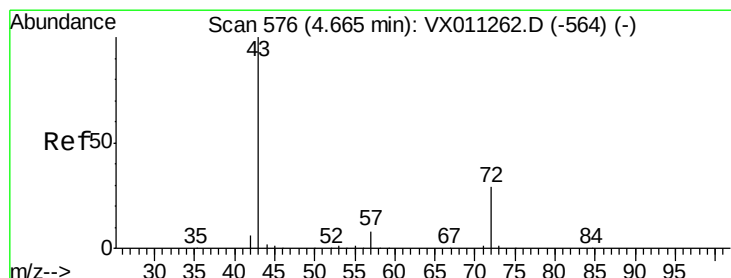
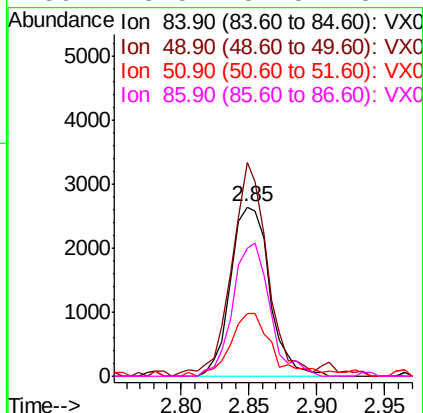




#20
Methylene Chloride
Concen: 2.790 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

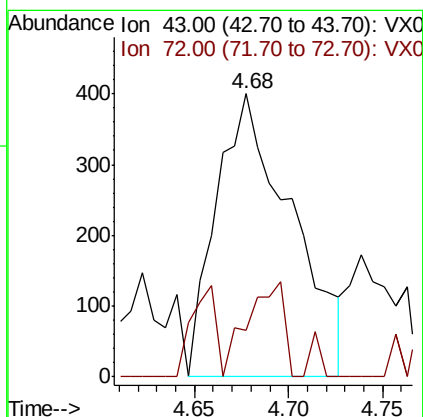
Instrument :
MSVOA_X
ClientSampled :

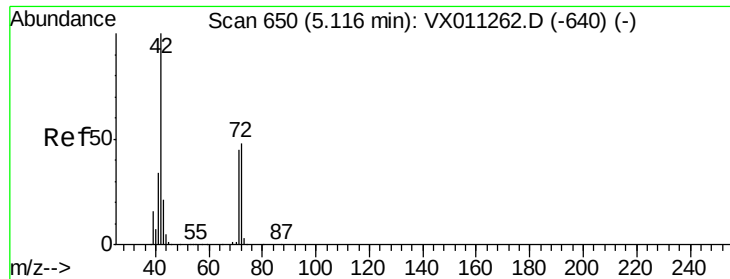
Tot Ion: 84 Resp: 5294
Ion Ratio Lower Upper
84 100
49 124.2 89.3 133.9
51 34.9 28.3 42.5
86 75.5 54.5 81.7



#25
2-Butanone
Concen: 0.902 ug/l
RT: 4.68 min Scan# 578
Delta R.T. 0.01 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Tgt Ion: 43 Resp: 1112
Ion Ratio Lower Upper
43 100
72 16.2 23.2 34.8#





#29

Tetrahydrofuran

Concen: 0.331 ug/l

RT: 5.10 min Scan# 648

Delta R.T. -0.01 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampled :

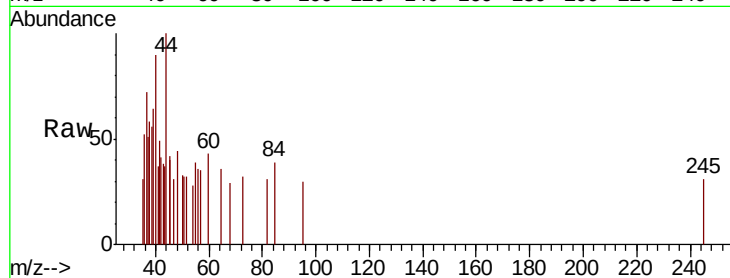
Tot Ion: 42 Resp: 250

Ion Ratio Lower Upper

42 100

72 0.0 39.9 59.9#

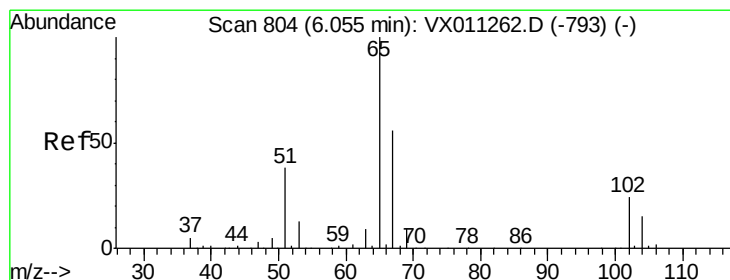
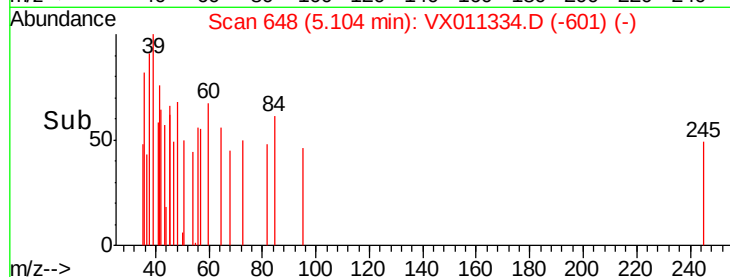
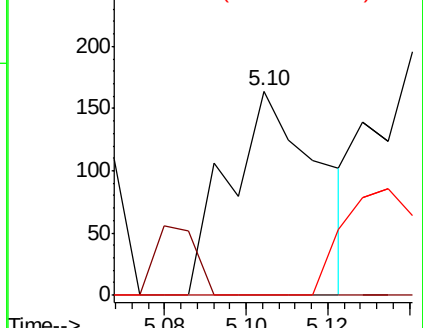
71 0.0 36.9 55.3#



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: 48.743 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011334.D

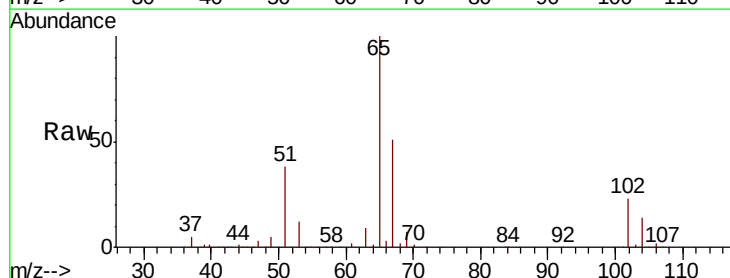
Acq: 05 Aug 2019 18:24

Tgt Ion: 65 Resp: 88732

Ion Ratio Lower Upper

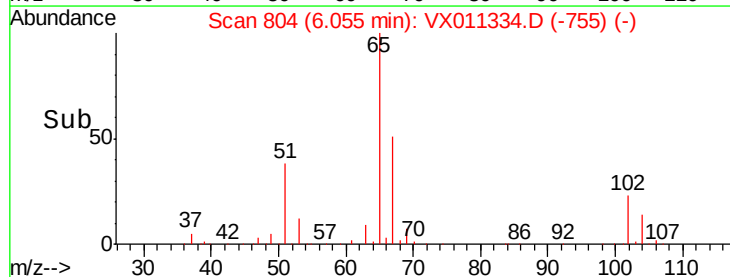
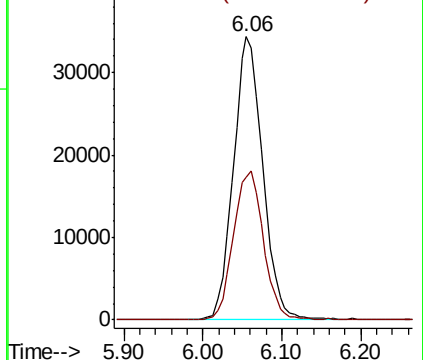
65 100

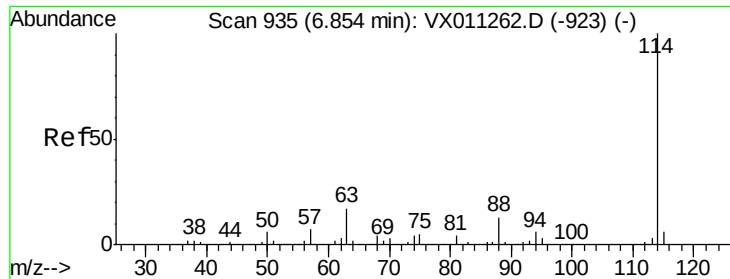
67 54.0 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

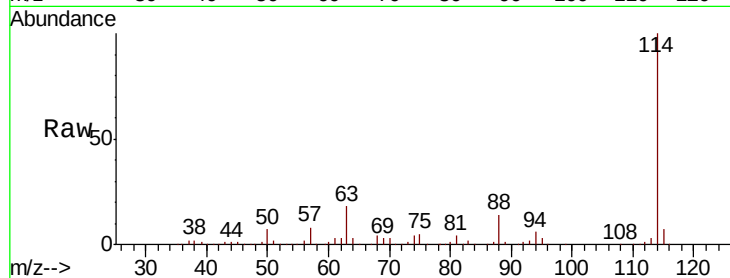




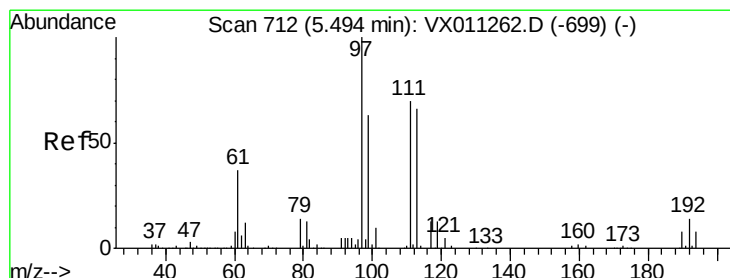
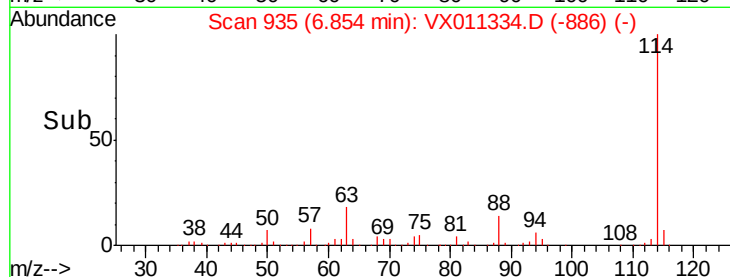
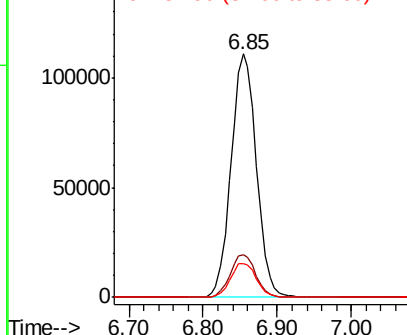
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:114 Resp: 264367
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 34.0
 88 13.9 0.0 26.4

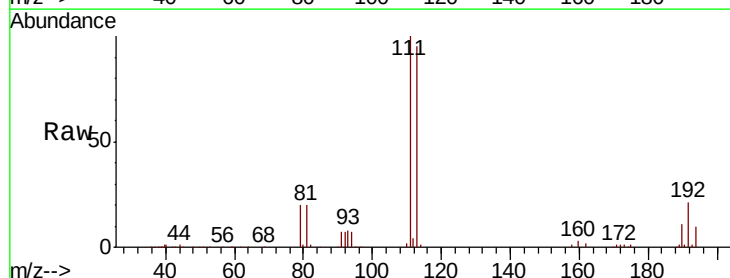


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

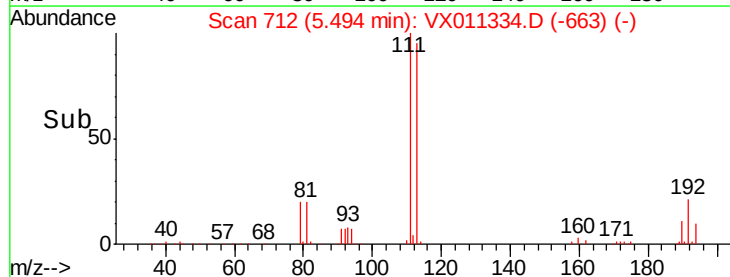
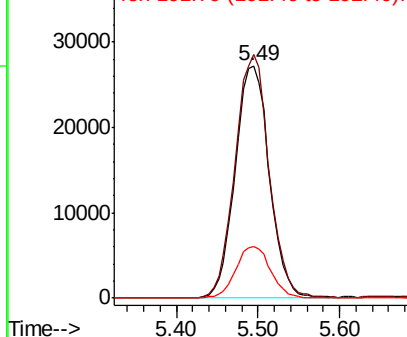


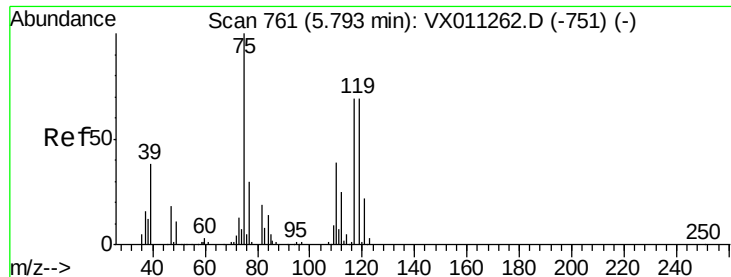
#35
 Dibromofluoromethane
 Concen: 45.847 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

Tgt Ion:113 Resp: 79131
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.9 122.9
 192 22.5 17.8 26.8



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

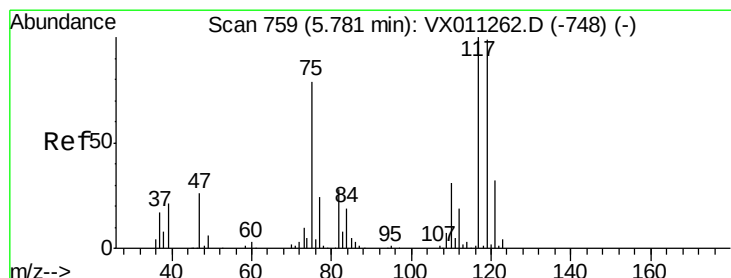
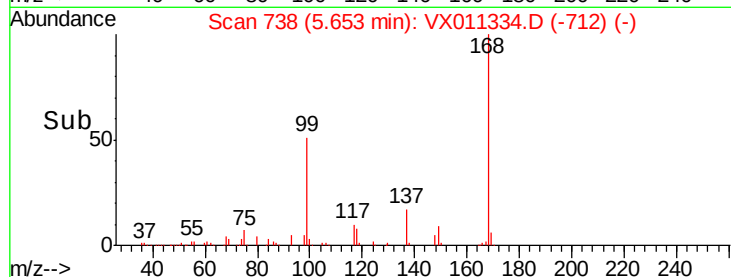
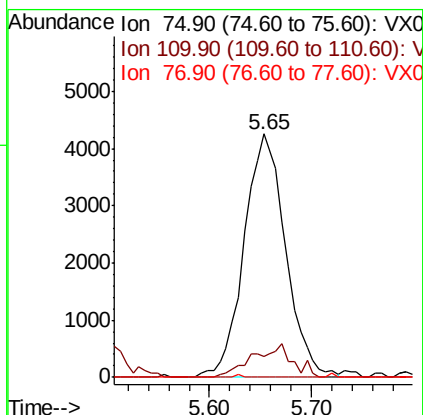
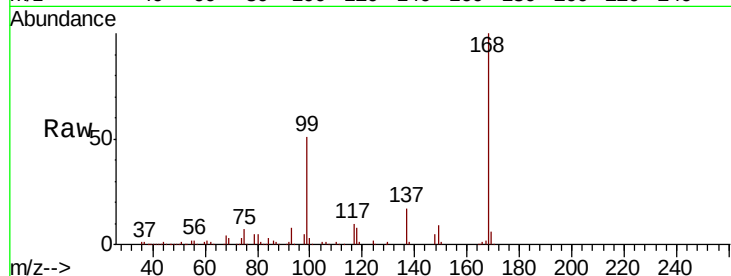




#36
 1,1-Dichloropropene
 Concen: 5.208 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

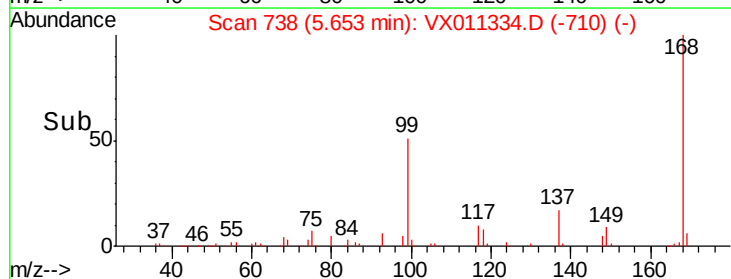
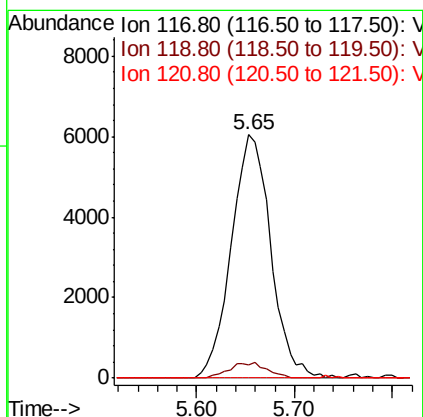
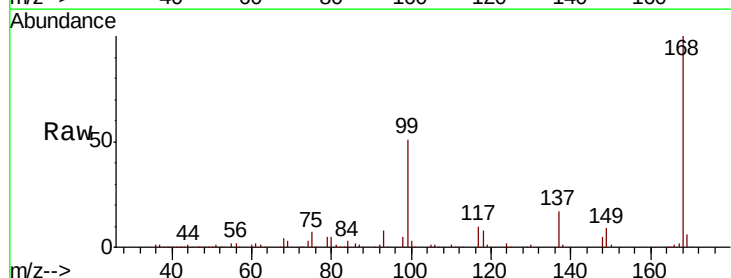
Instrument :
 MSVOA_X
 ClientSampled :

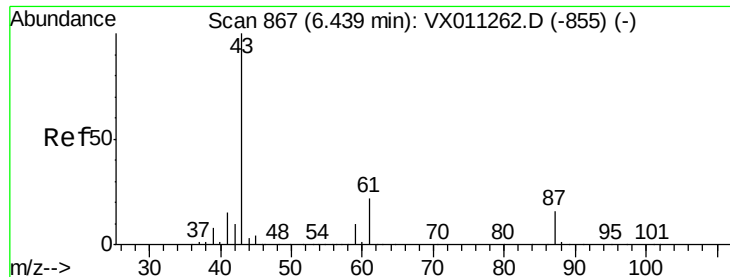
Tot Ion	Ratio	Lower	Upper
75	100		
110	5.7	20.0	59.9#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.269 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	79.0	118.4#
121	0.0	25.9	38.9#





#43

Isopropyl Acetate

Concen: 2.220 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

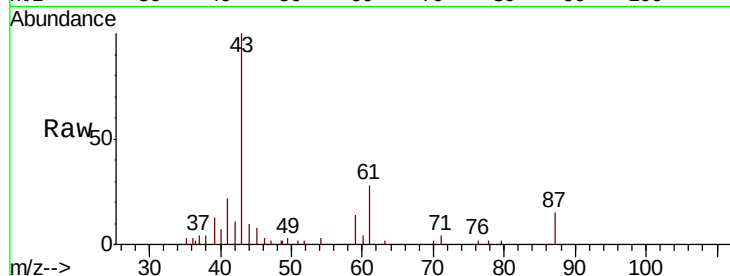
Tot Ion: 43 Resp: 8217

Ion Ratio Lower Upper

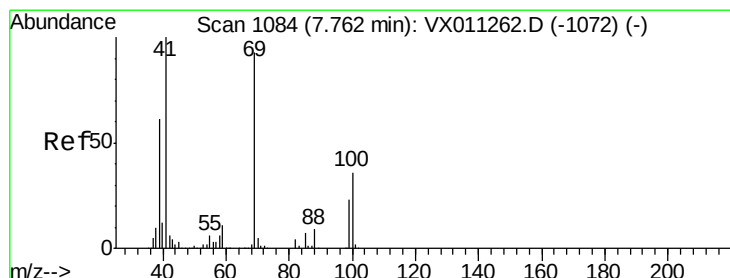
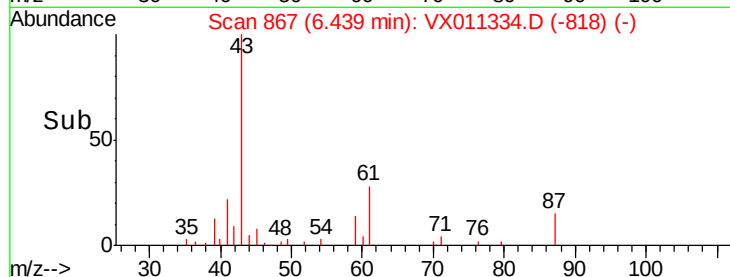
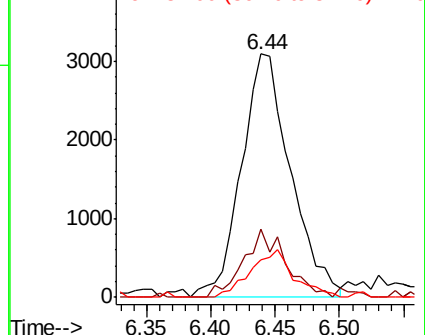
43 100

61 23.9 16.5 24.7

87 17.2 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.235 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

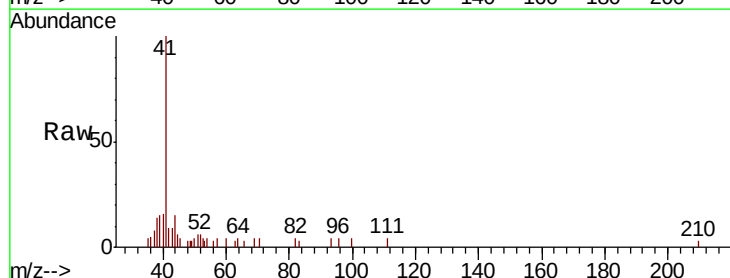
Tgt Ion: 41 Resp: 3894

Ion Ratio Lower Upper

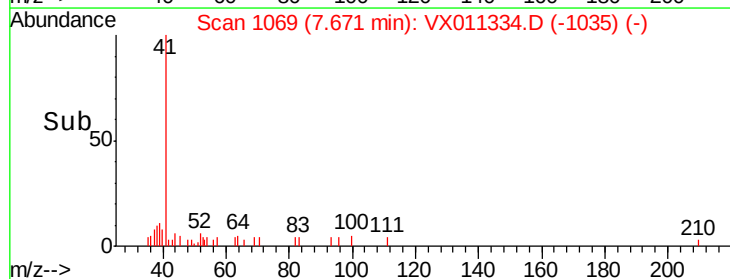
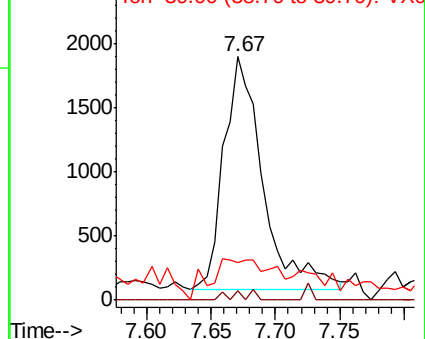
41 100

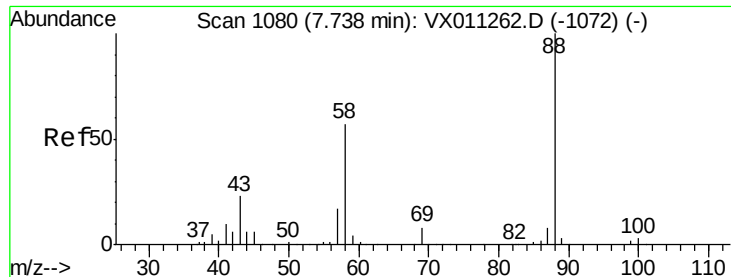
69 0.7 74.5 111.7#

39 0.0 48.6 72.8#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

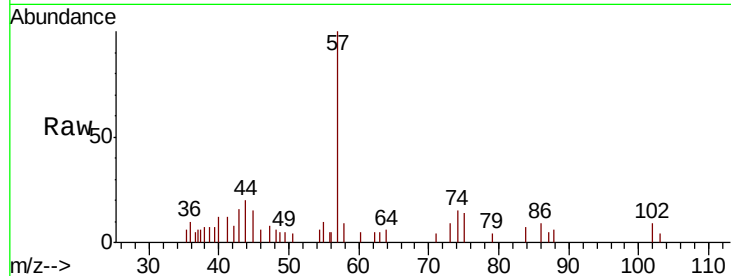




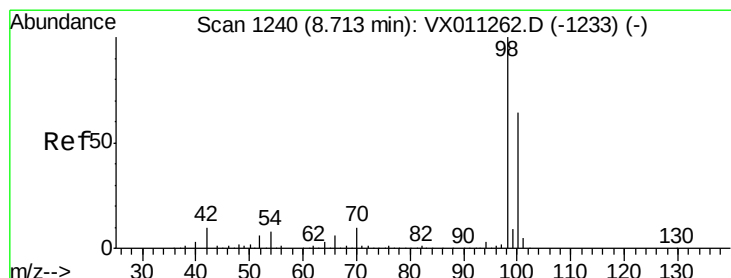
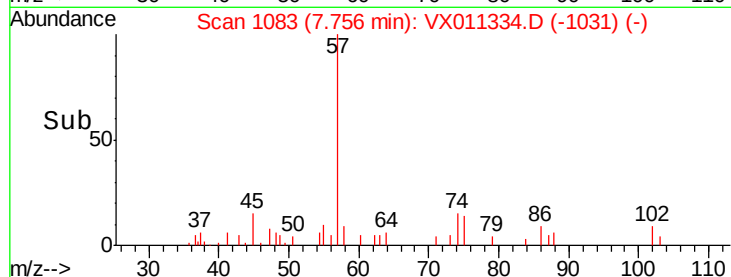
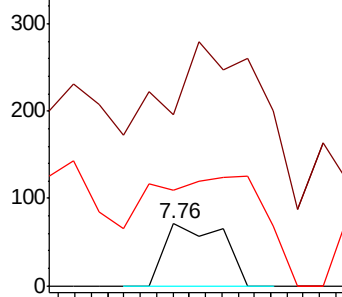
#49
1,4-Dioxane
Concen: 1.406 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.02 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 342.3 47.8 71.8#

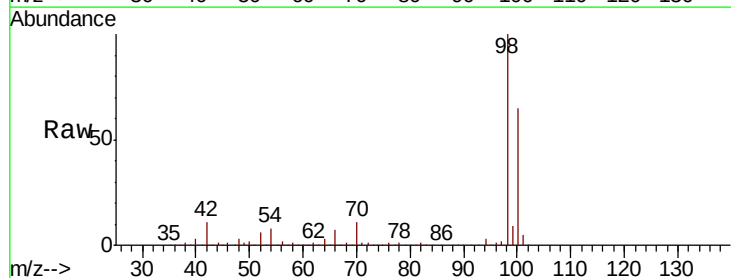


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

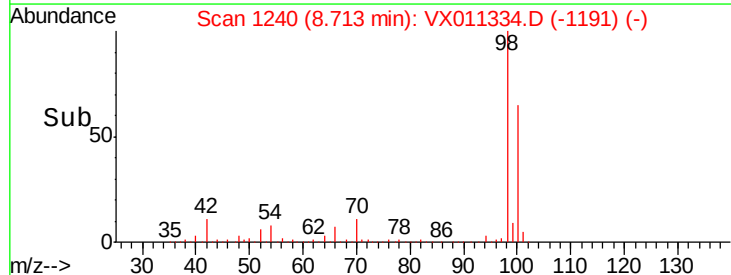
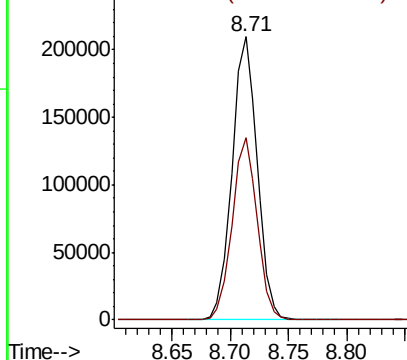


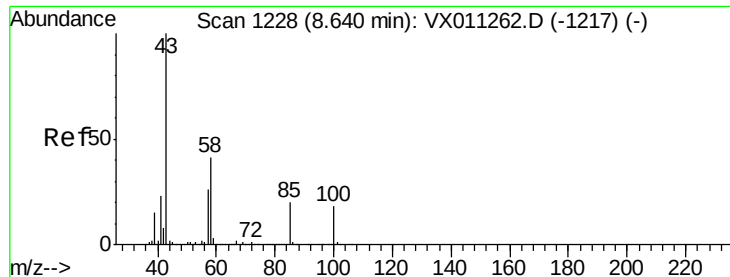
#50
Toluene-d8
Concen: 48.604 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Tgt Ion: 98 Resp: 316660
Ion Ratio Lower Upper
98 100
100 64.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

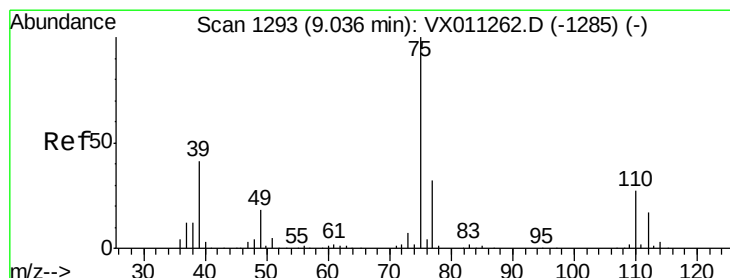
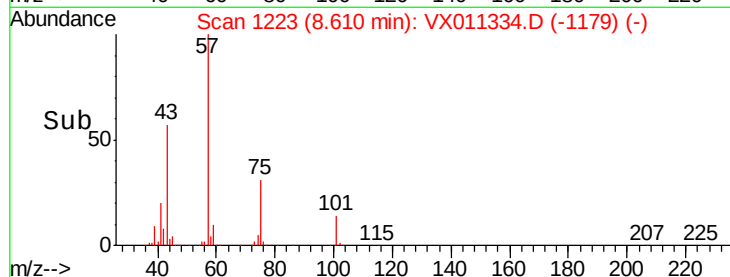
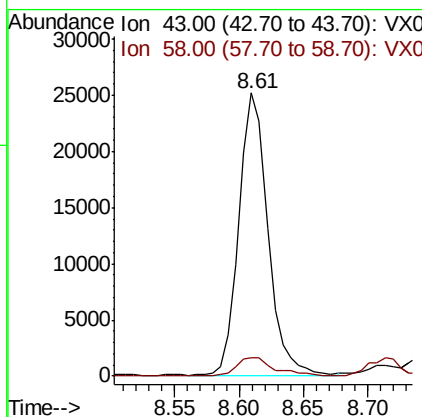
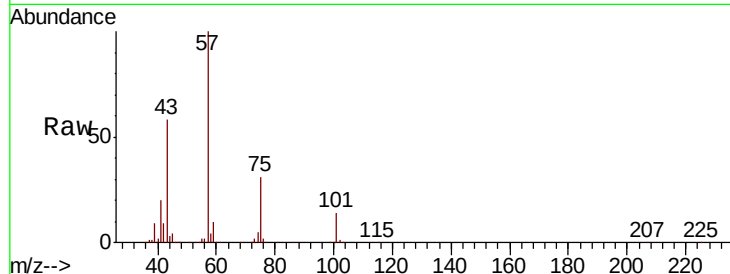




#51
 4-Methyl-2-Pentanone
 Concen: 16.387 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

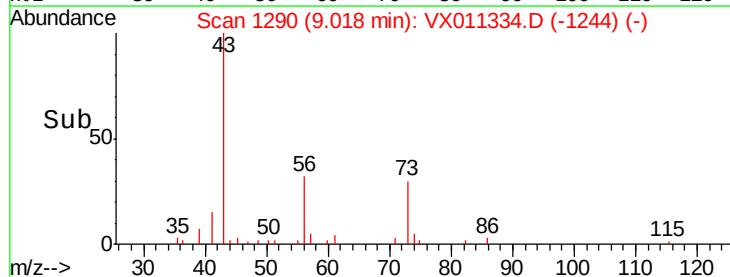
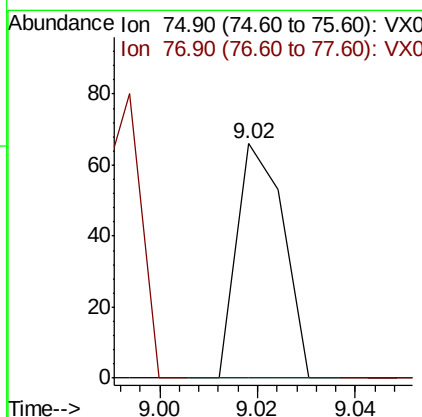
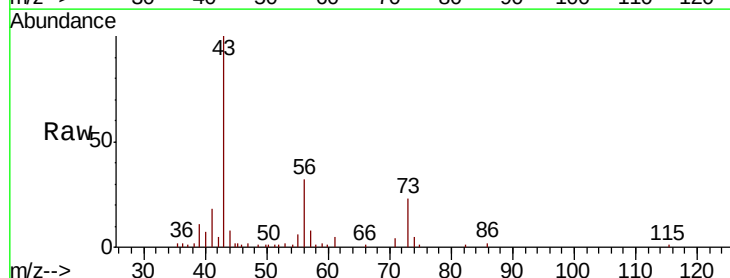
Instrument :
 MSVOA_X
 ClientSampled :

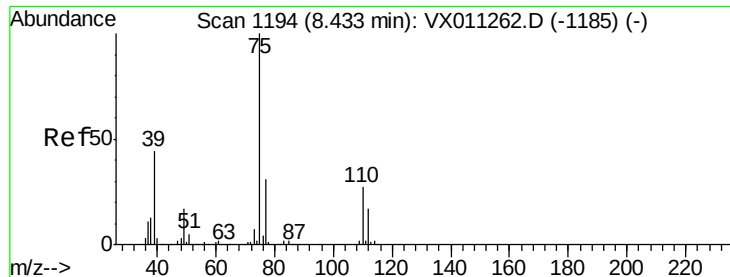
Tot Ion: 43 Resp: 39146
 Ion Ratio Lower Upper
 43 100
 58 8.6 32.3 48.5#



#53
 t-1,3-Dichloropropene
 Concen: 2.855 ug/l
 RT: 9.02 min Scan# 1290
 Delta R.T. -0.02 min
 Lab File: VX011334.D
 Acq: 05 Aug 2019 18:24

Tgt Ion: 75 Resp: 44
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#





#54

cis-1,3-Dichloropropene

Concen: 7.980 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

ClientSampleId :

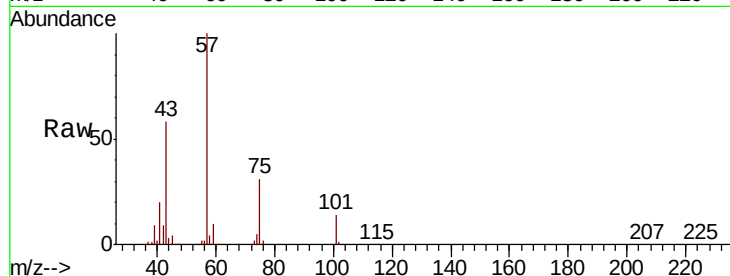
Tot Ion: 75 Resp: 20551

Ion Ratio Lower Upper

75 100

77 1.1 25.0 37.6#

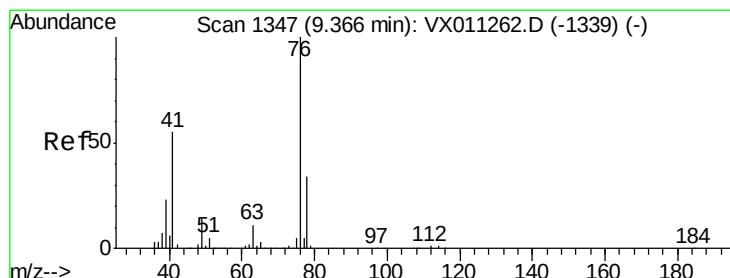
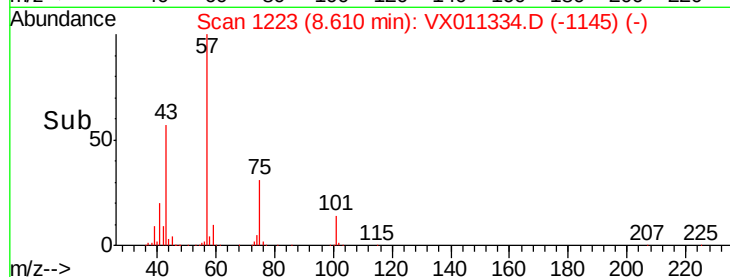
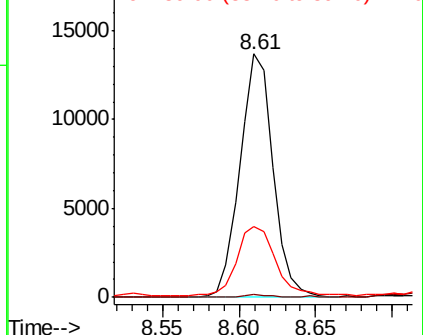
39 28.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.654 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011334.D

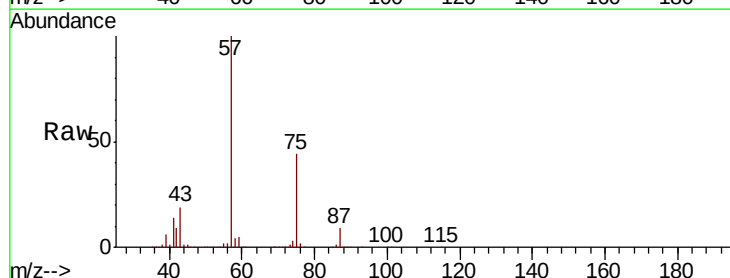
Acq: 05 Aug 2019 18:24

Tgt Ion: 76 Resp: 4897

Ion Ratio Lower Upper

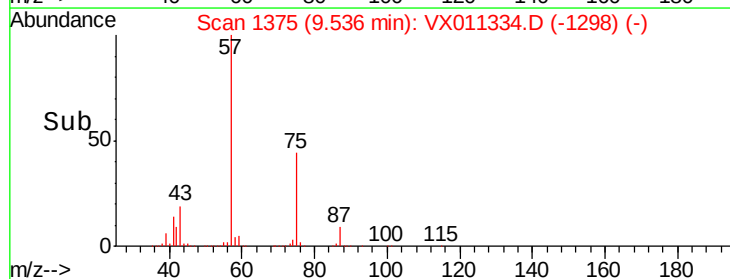
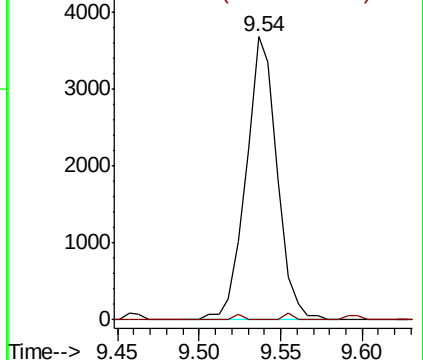
76 100

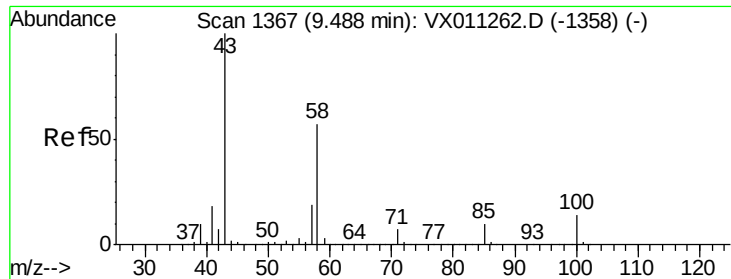
78 0.6 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

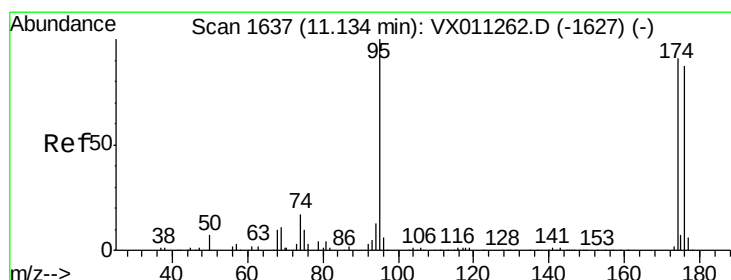
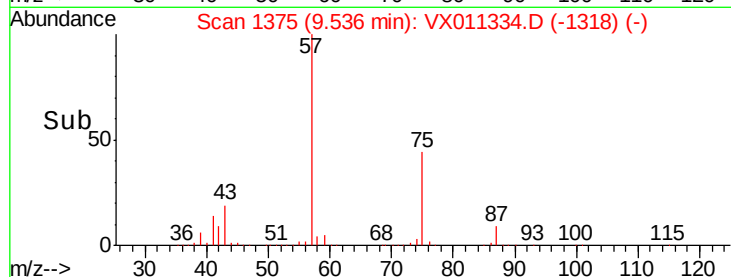
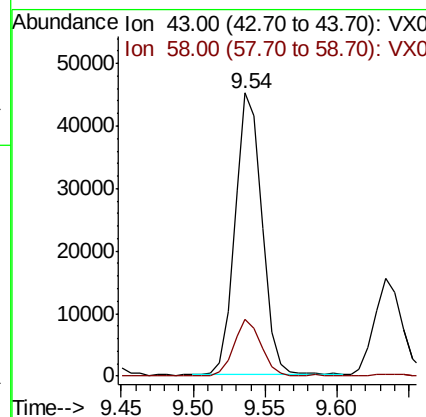
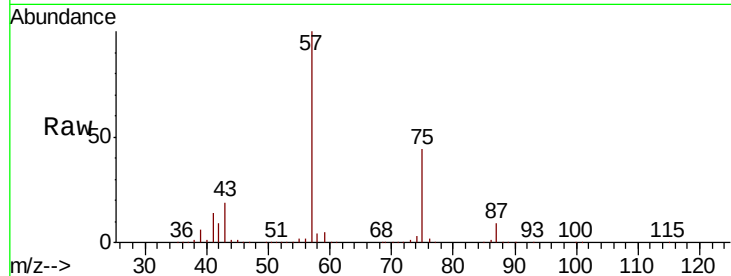




#59
2-Hexanone
Concen: 32.087 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

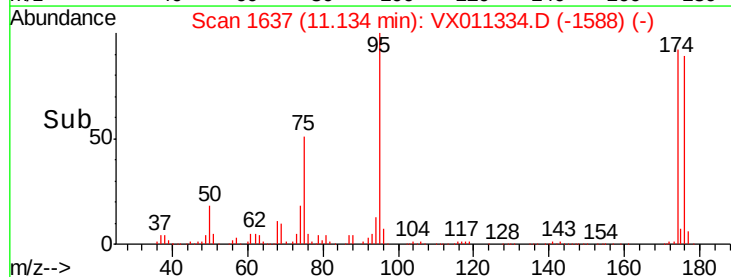
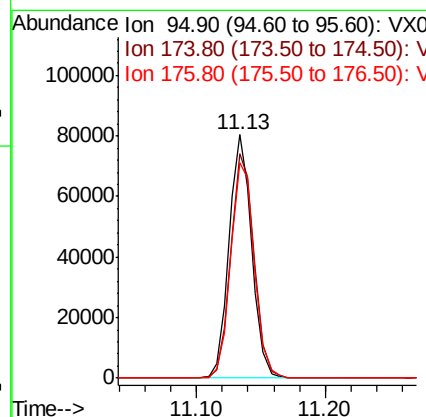
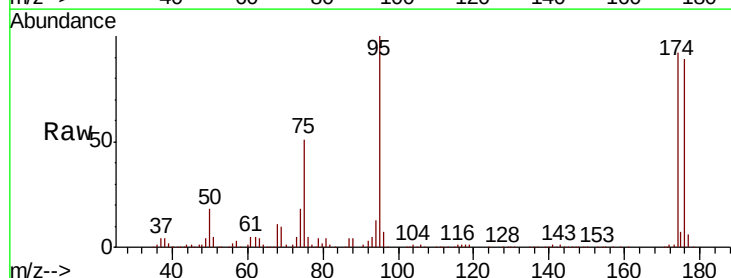
Instrument :
MSVOA_X
ClientSampled :

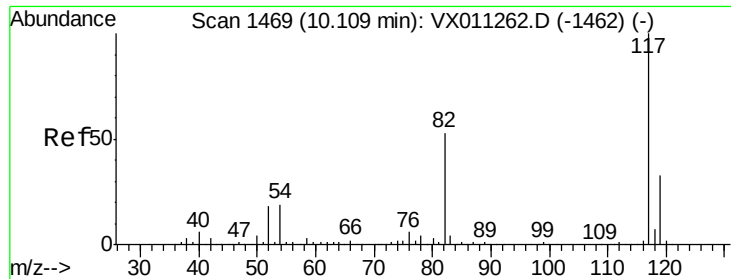
Tot Ion: 43 Resp: 59372
Ion Ratio Lower Upper
43 100
58 20.5 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 42.941 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Tgt Ion: 95 Resp: 99885
Ion Ratio Lower Upper
95 100
174 94.8 0.0 191.2
176 91.9 0.0 184.8

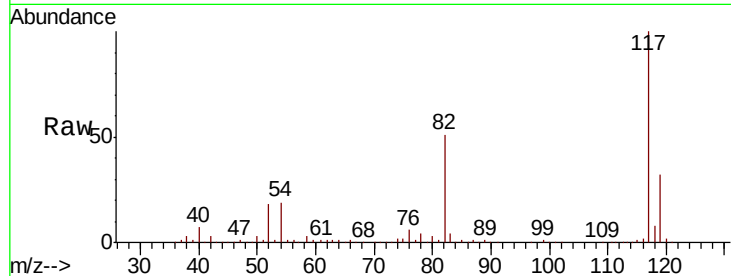




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.2	42.2	63.2
119	31.8	26.6	39.8

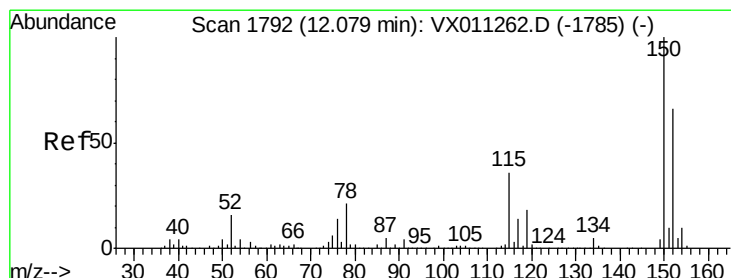
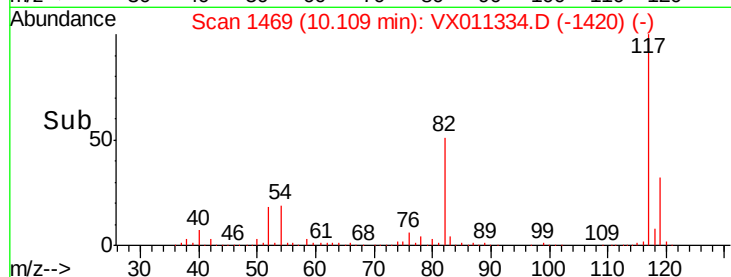
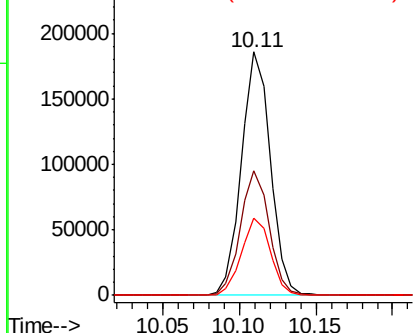


Abundance

Ion 116.90 (116.60 to 117.60): V

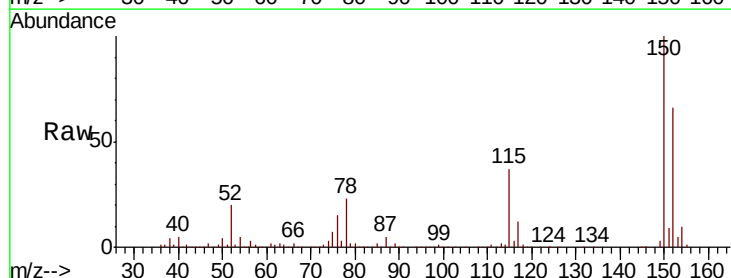
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011334.D
Acq: 05 Aug 2019 18:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	40.0	119.9
150	156.1	0.0	350.4

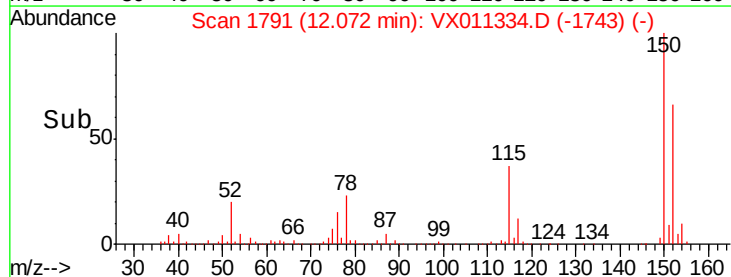
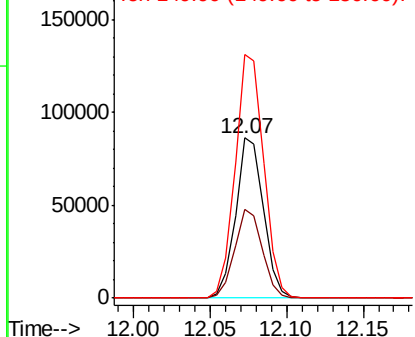


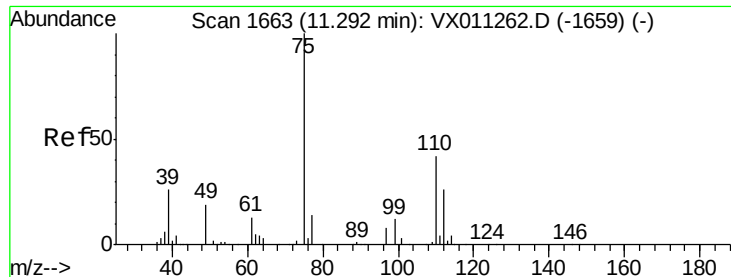
Abundance

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: 25.371 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Instrument :

MSVOA_X

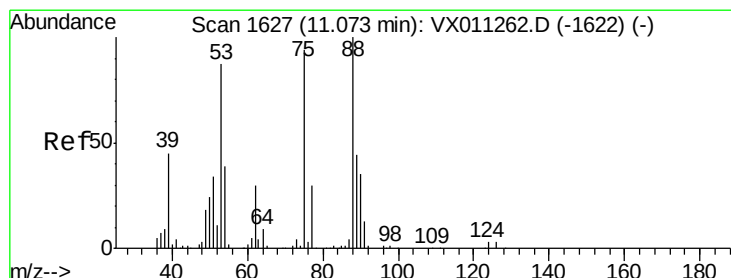
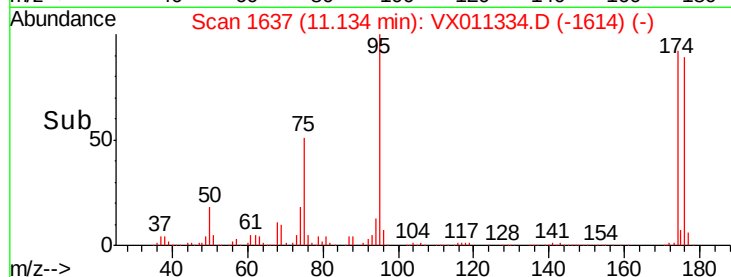
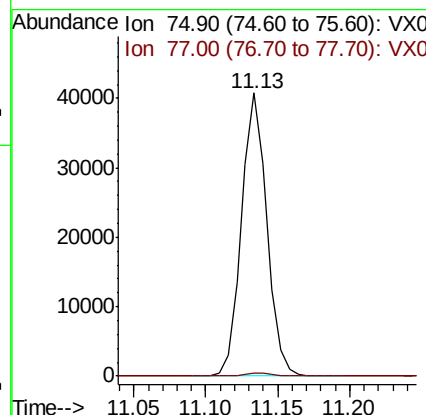
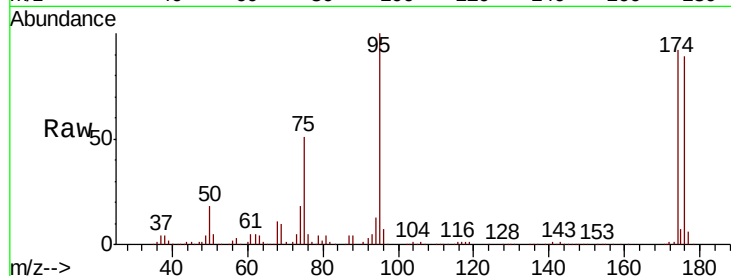
ClientSampled :

Tot Ion: 75 Resp: 50125

Ion Ratio Lower Upper

75 100

77 1.5 21.1 63.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.139 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011334.D

Acq: 05 Aug 2019 18:24

Tgt Ion: 75 Resp: 50125

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#

