

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052020\
 Data File : VX016359.D
 Acq On : 20 May 2020 14:51
 Operator : JC/SP
 Sample : L2663-08DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

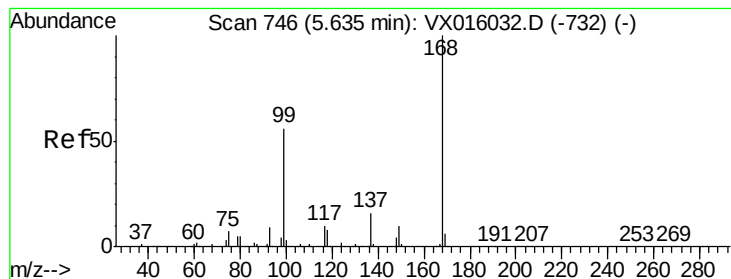
Quant Time: May 21 03:52:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	247790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	413045	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	405088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205407	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	147044	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	
35) Dibromofluoromethane	5.47	113	121199	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	
50) Toluene-d8	8.70	98	505545	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.12	95	202929	52.91	ug/l	0.00
Spiked Amount			Recovery	=	105.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	6469	7.846	ug/l	97
13) Acrolein	2.27	56	716	1.388	ug/l #	73
14) Allyl chloride	2.68	41	17603	3.727	ug/l #	44
15) Acrylonitrile	3.12	53	3756	2.196	ug/l	96
16) Acetone	2.42	43	255872	175.872	ug/l	93
18) Methyl Acetate	2.76	43	892	0.249	ug/l	98
25) 2-Butanone	4.64	43	58077	24.773	ug/l	98
29) Tetrahydrofuran	5.09	42	495	0.319	ug/l #	48
31) Cyclohexane	5.63	56	4304	0.950	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18291	4.499	ug/l #	49
37) Ethyl Acetate	4.81	43	2037	0.432	ug/l	94
38) Carbon Tetrachloride	5.63	117	23045	5.576	ug/l #	14
40) Benzene	6.11	78	2945	0.248	ug/l	99
51) 4-Methyl-2-Pentanone	8.62	43	8948	1.945	ug/l	97
52) Toluene	8.77	92	1679	0.226	ug/l #	73
56) Ethyl methacrylate	9.07	69	1336	0.281	ug/l #	17
59) 2-Hexanone	9.48	43	11710	3.241	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.23	83	25	2.058	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96175	20.633	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	96175	49.171	ug/l #	13
86) p-Isopropyltoluene	12.05	119	6041	0.443	ug/l	87

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

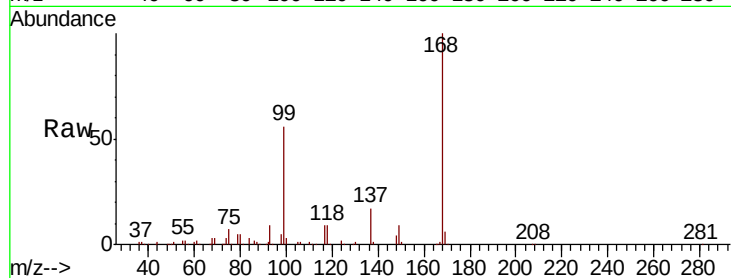
ClientSampleId :

Tot Ion:168 Resp: 247790

Ion Ratio Lower Upper

168 100

99 56.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

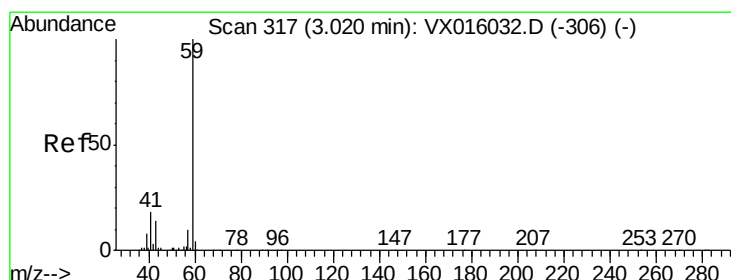
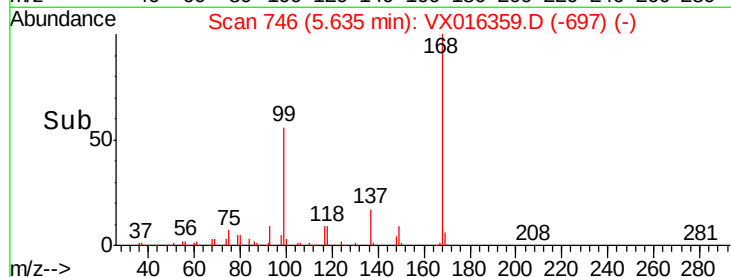
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 7.846 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016359.D

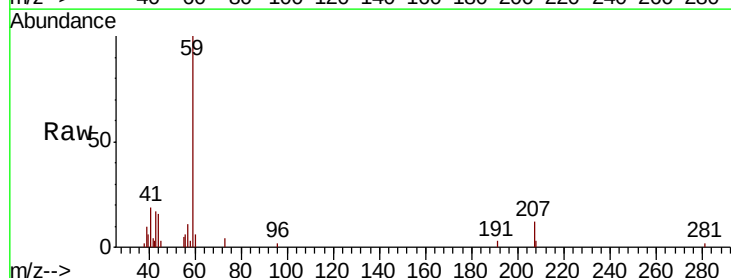
Acq: 20 May 2020 14:51

Tgt Ion: 59 Resp: 6469

Ion Ratio Lower Upper

59 100

57 11.4 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

3000

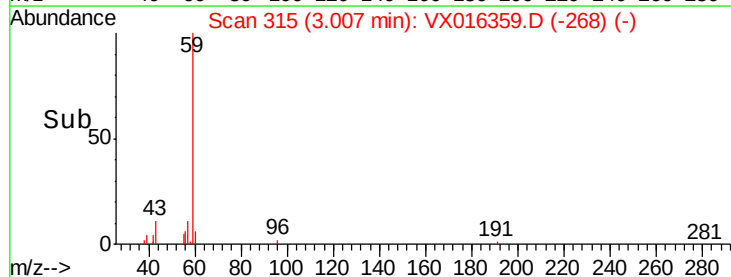
2000

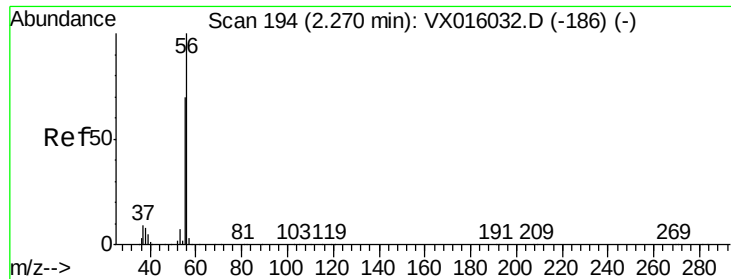
1000

0

Time-->

2.90 2.95 3.00 3.05 3.10





#13

Acrolein

Concen: 1.388 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

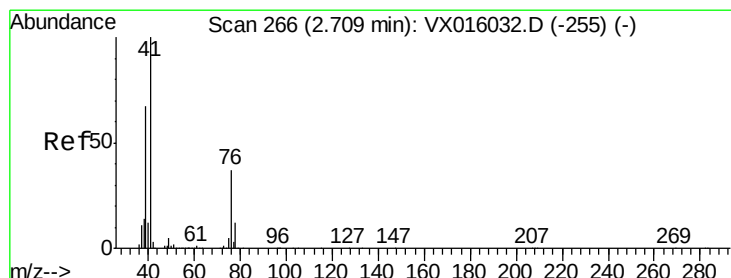
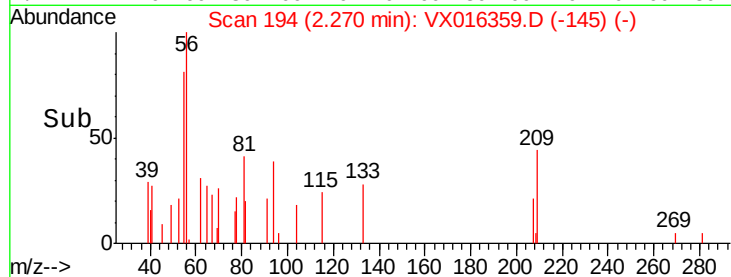
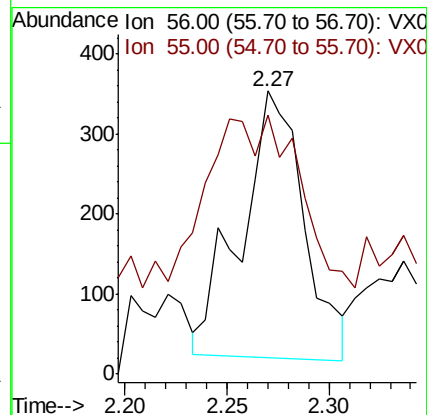
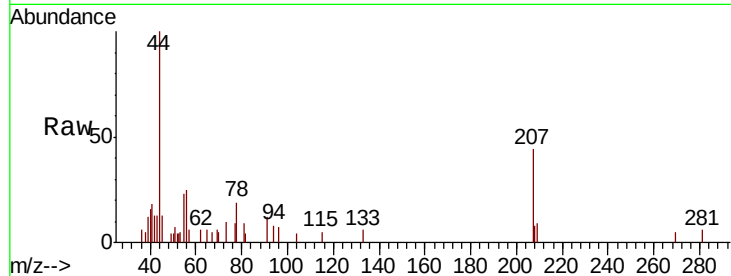
ClientSampleId :

Tot Ion: 56 Resp: 716

Ion Ratio Lower Upper

56 100

55 48.5 56.5 84.7#



#14

Allyl chloride

Concen: 3.727 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

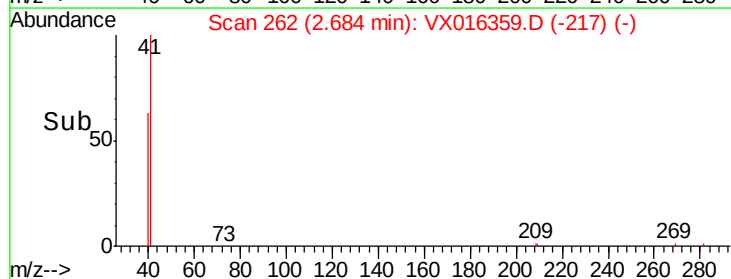
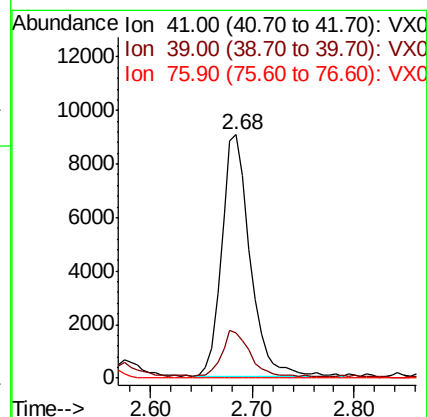
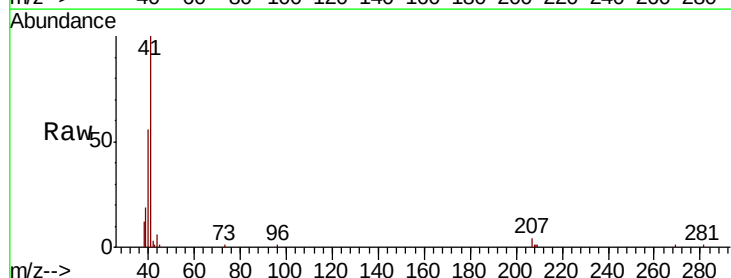
Tgt Ion: 41 Resp: 17603

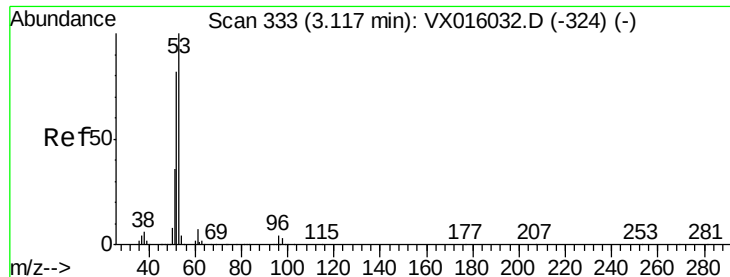
Ion Ratio Lower Upper

41 100

39 20.6 50.5 75.7#

76 0.0 26.6 40.0#





#15

Acrylonitrile

Concen: 2.196 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

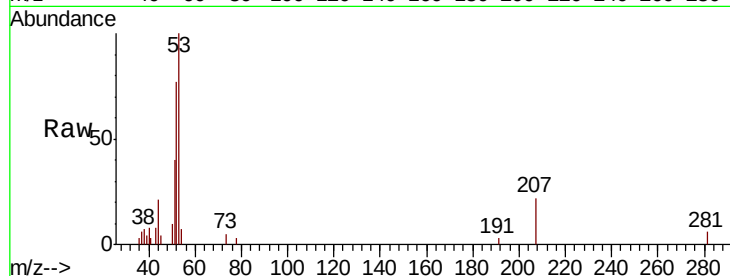
Tot Ion: 53 Resp: 3756

Ion Ratio Lower Upper

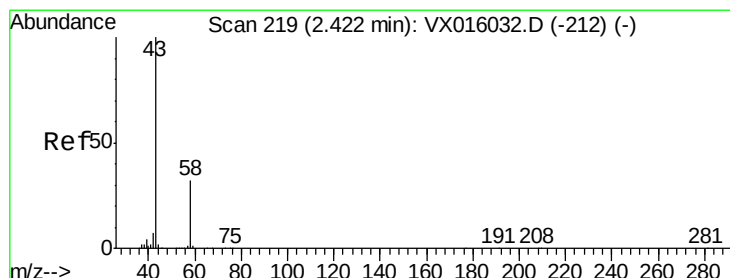
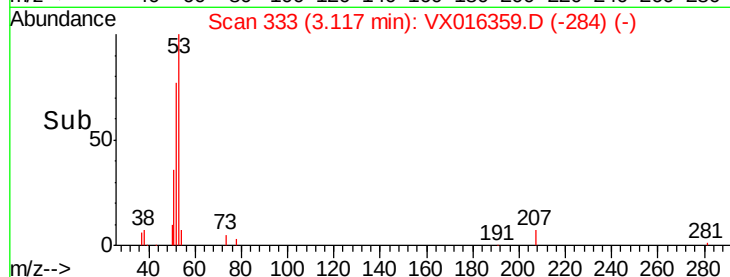
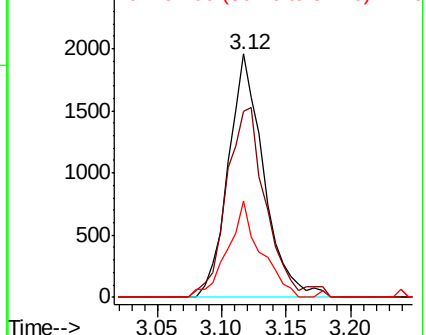
53 100

52 87.5 66.1 99.1

51 36.8 28.8 43.2



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: 175.872 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016359.D

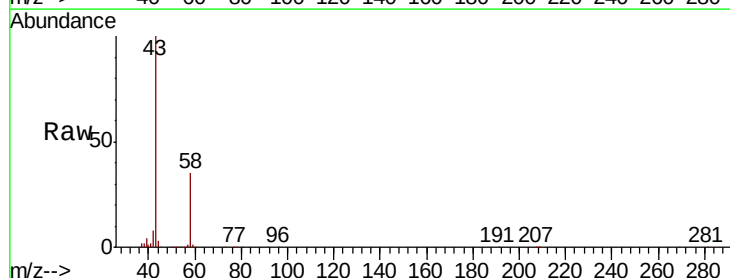
Acq: 20 May 2020 14:51

Tgt Ion: 43 Resp: 255872

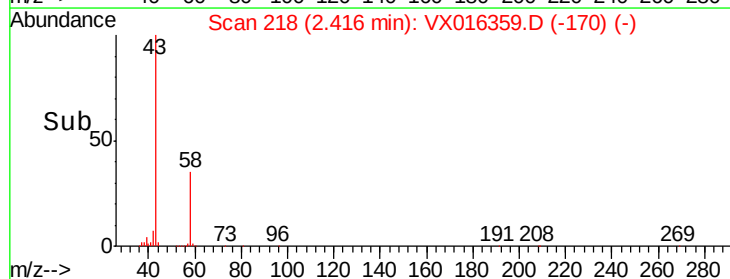
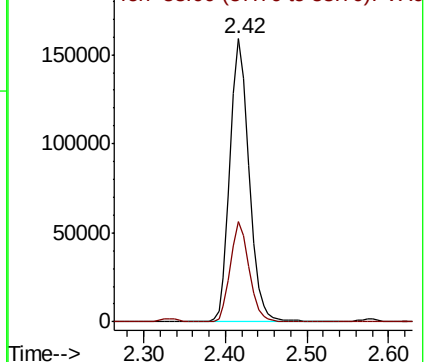
Ion Ratio Lower Upper

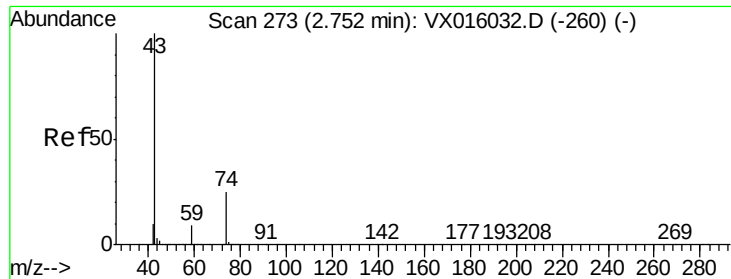
43 100

58 35.3 25.4 38.0



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

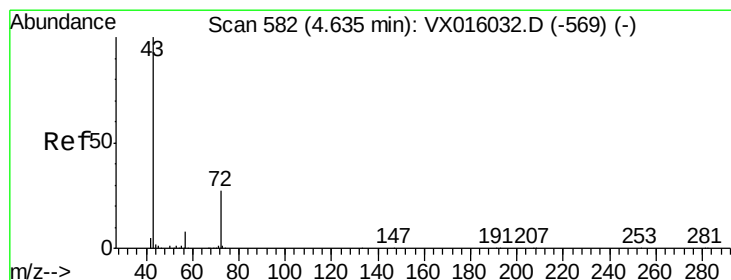
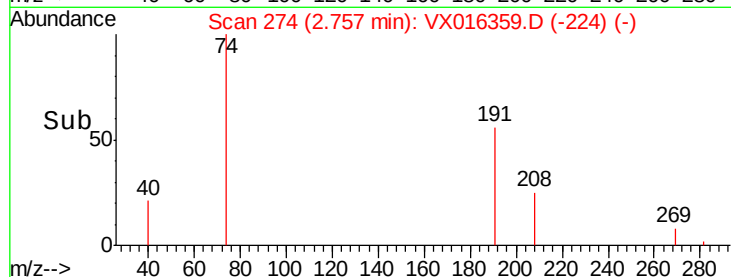
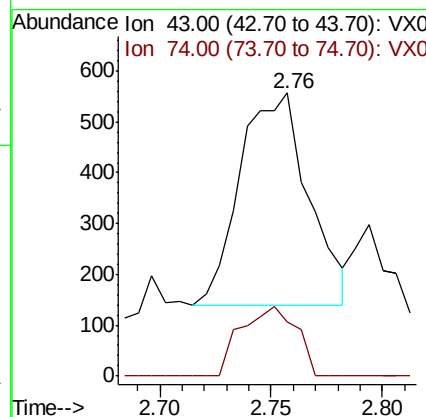
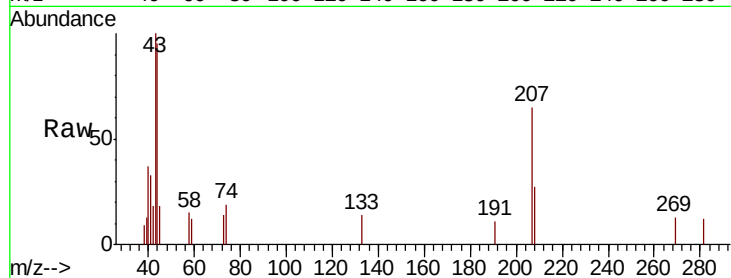




#18
Methvl Acetate
Concen: 0.249 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

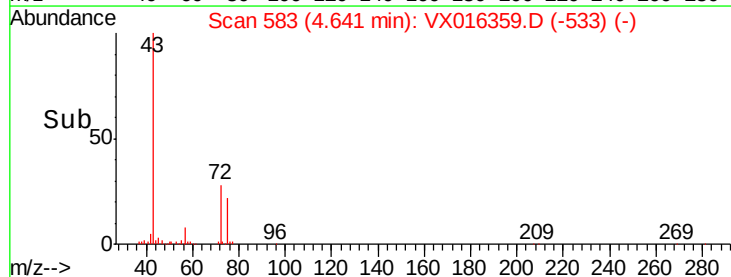
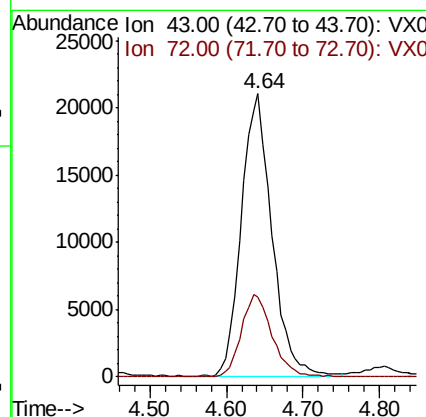
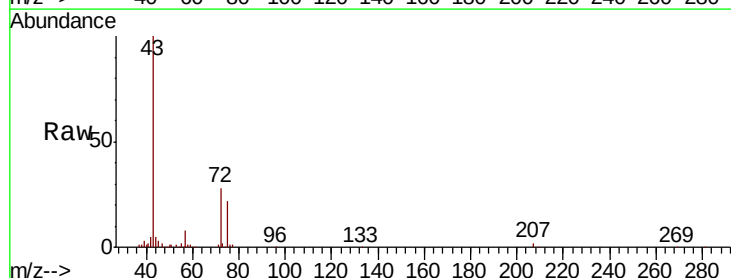
Instrument :
MSVOA_X
ClientSampled :

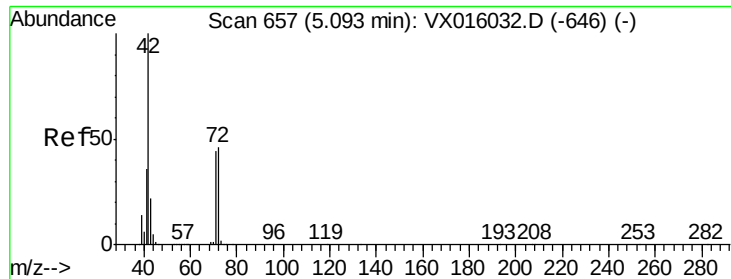
Tot Ion: 43 Resp: 892
Ion Ratio Lower Upper
43 100
74 26.2 20.2 30.2



#25
2-Butanone
Concen: 24.773 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

Tgt Ion: 43 Resp: 58077
Ion Ratio Lower Upper
43 100
72 28.4 21.8 32.8





#29

Tetrahydrofuran

Concen: 0.319 ug/l

RT: 5.09 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

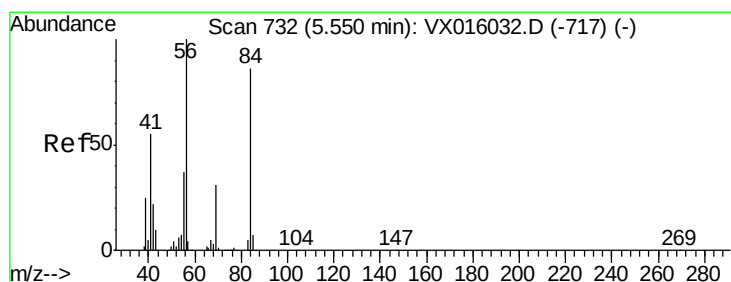
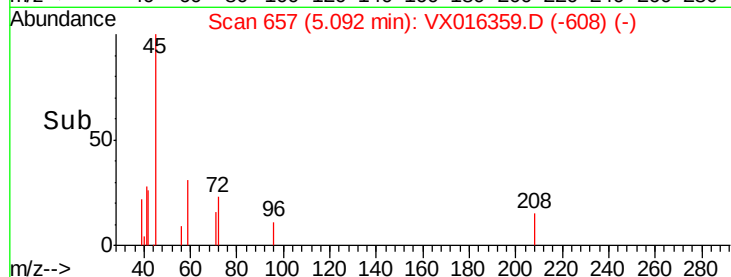
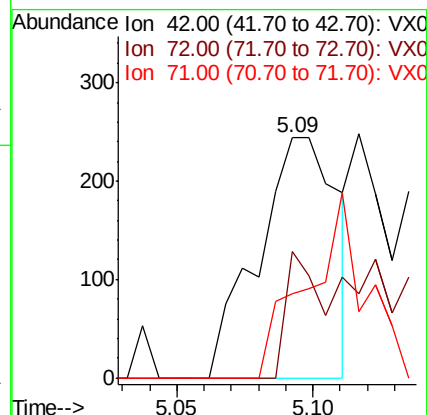
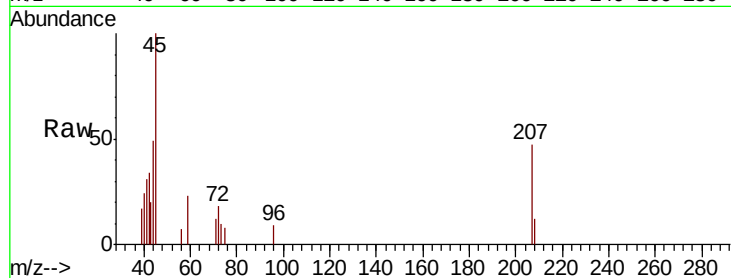
Tot Ion: 42 Resp: 495

Ion Ratio Lower Upper

42 100

72 21.8 37.1 55.7#

71 0.0 34.5 51.7#



#31

Cyclohexane

Concen: 0.950 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

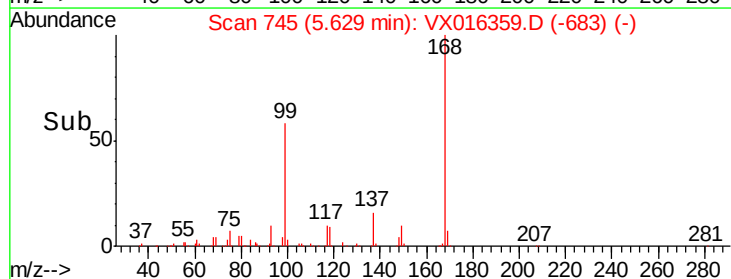
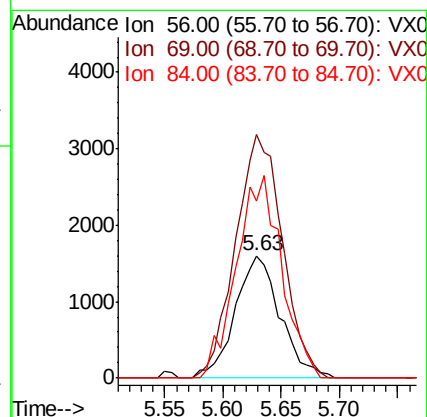
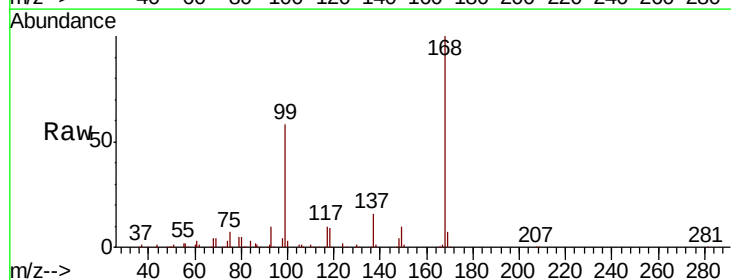
Tgt Ion: 56 Resp: 4304

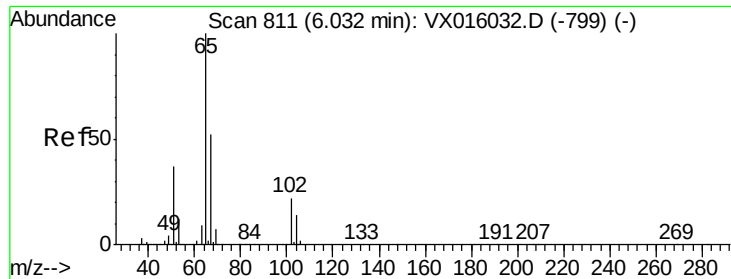
Ion Ratio Lower Upper

56 100

69 199.1 25.0 37.6#

84 144.8 69.0 103.6#

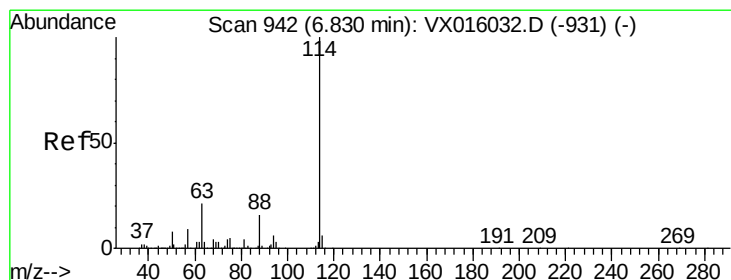
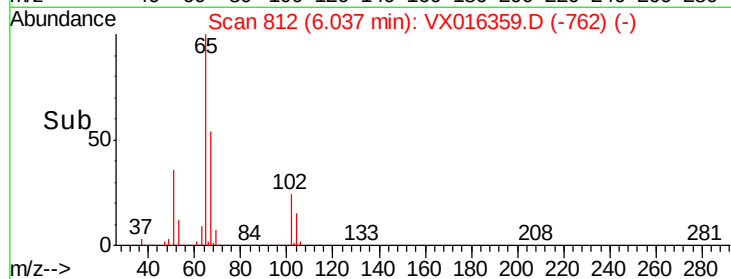
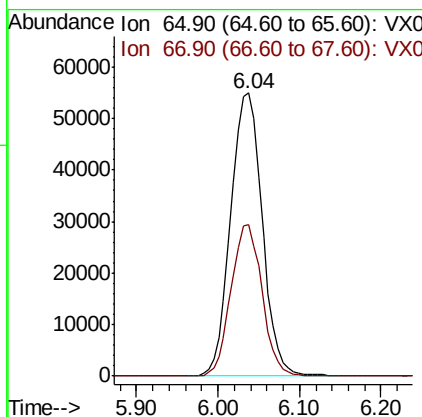
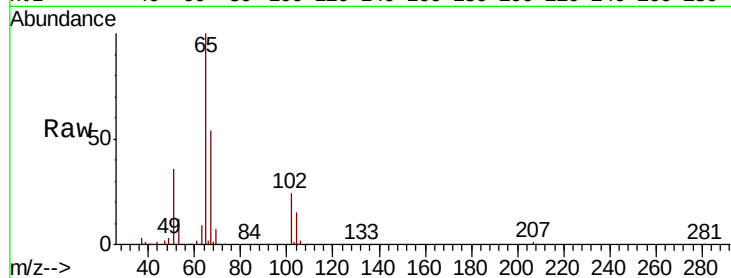




#33
 1,2-Dichloroethane-d4
 Concen: 45.096 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016359.D
 Acq: 20 May 2020 14:51

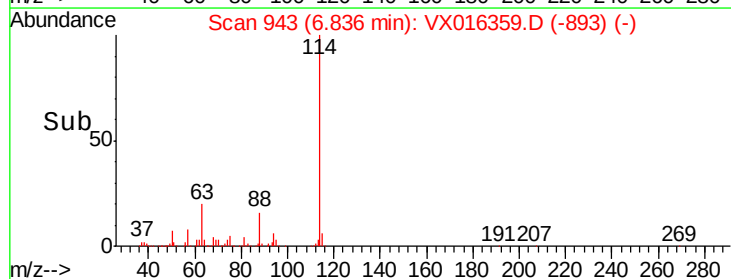
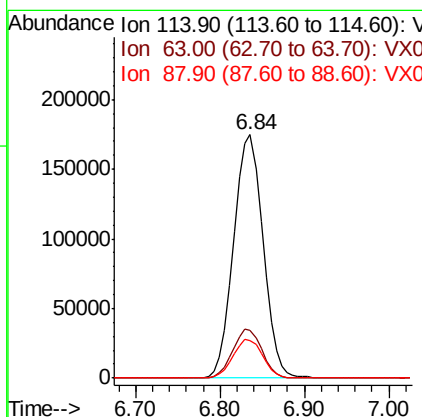
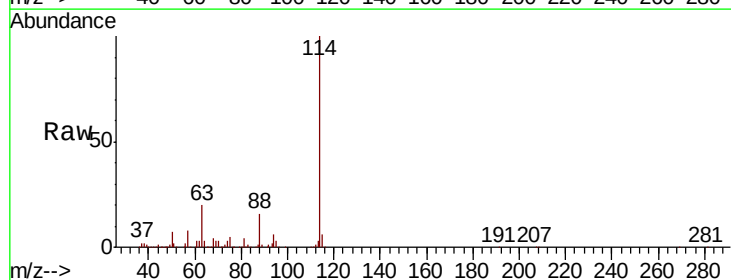
Instrument :
 MSVOA_X
 ClientSampleId :

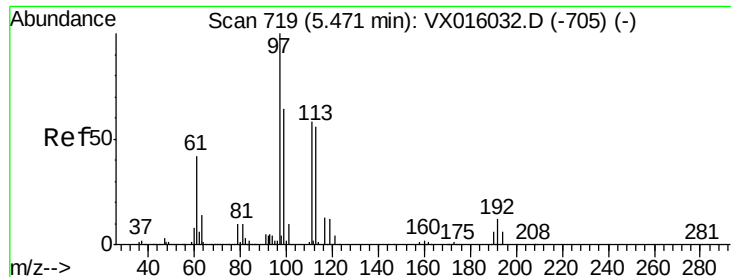
Tot Ion: 65 Resp: 147044
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016359.D
 Acq: 20 May 2020 14:51

Tgt Ion: 114 Resp: 413045
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.8
 88 15.5 0.0 31.4

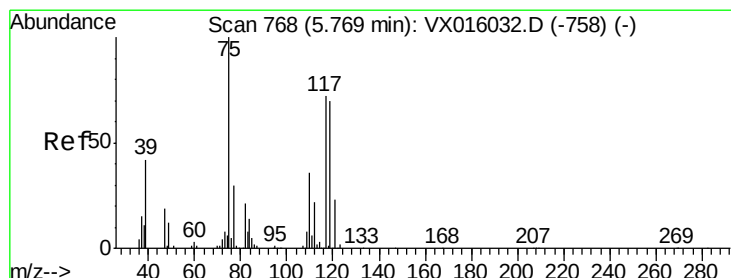
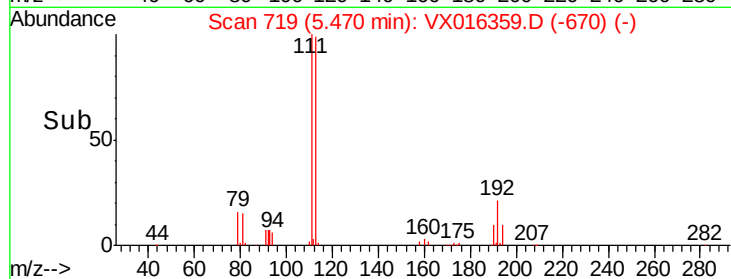
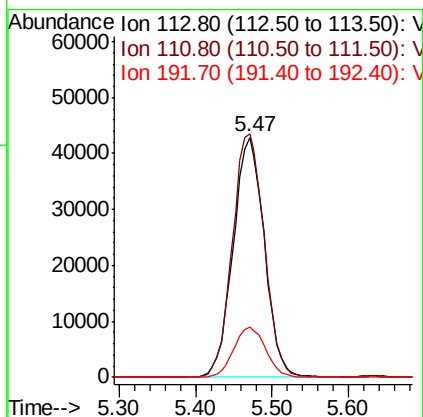
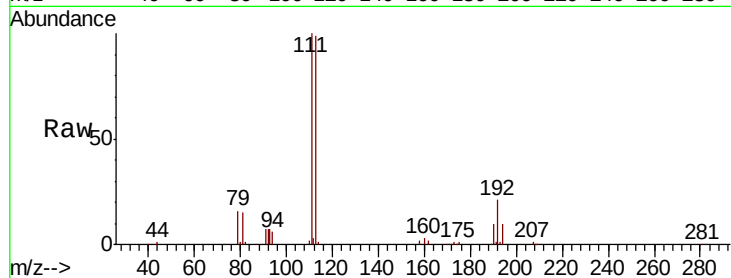




#35
 Dibromofluoromethane
 Concen: 46.315 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016359.D
 Acq: 20 May 2020 14:51

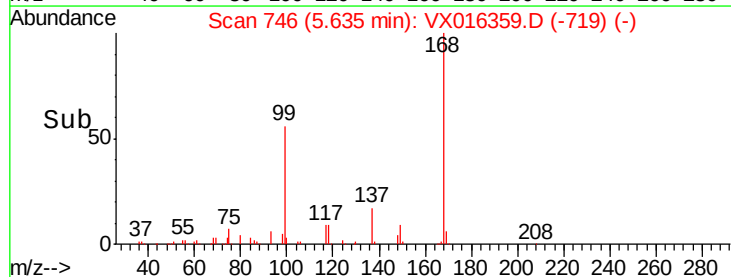
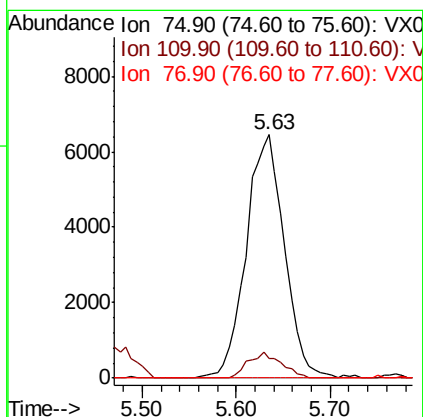
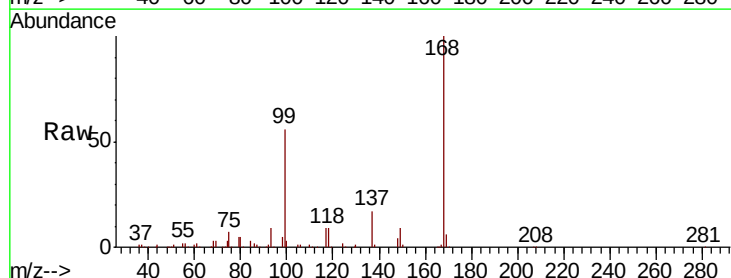
Instrument :
 MSVOA_X
 ClientSampleId :

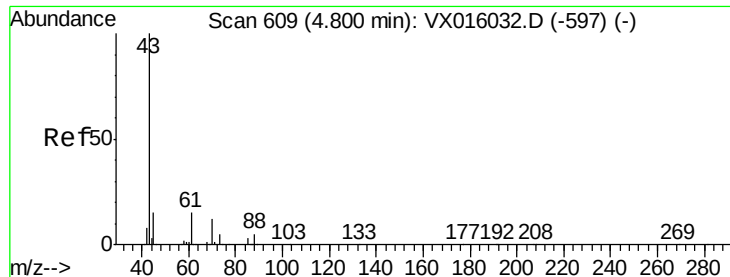
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.6	122.4
192	21.5	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.499 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016359.D
 Acq: 20 May 2020 14:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.1#
77	0.0	25.0	37.6#

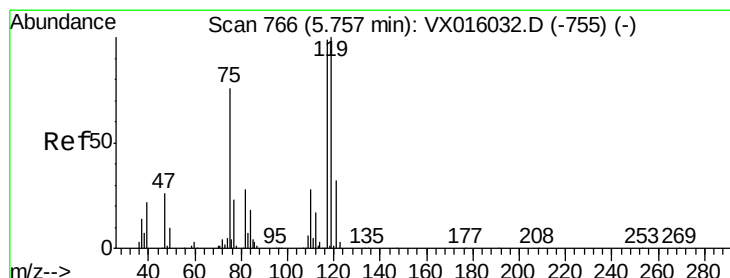
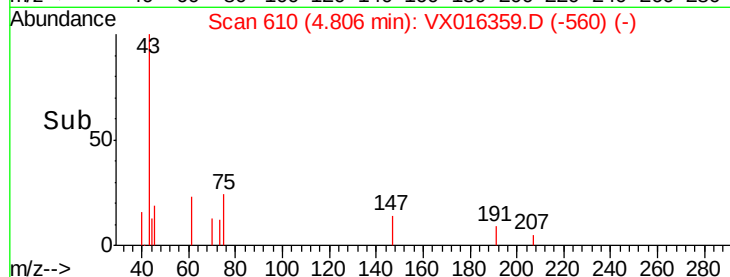
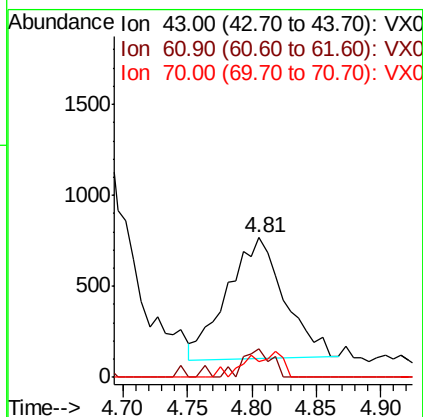
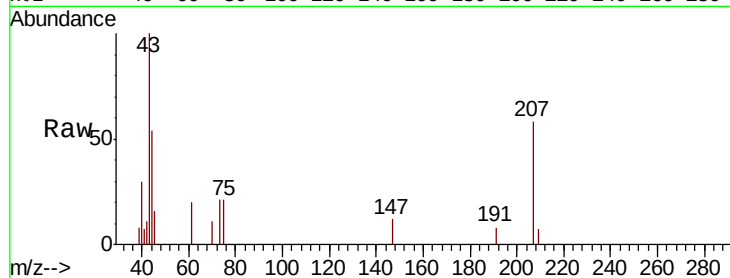




#37
Ethyl Acetate
Concen: 0.432 ug/l
RT: 4.81 min Scan# 610
Delta R.T. 0.01 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

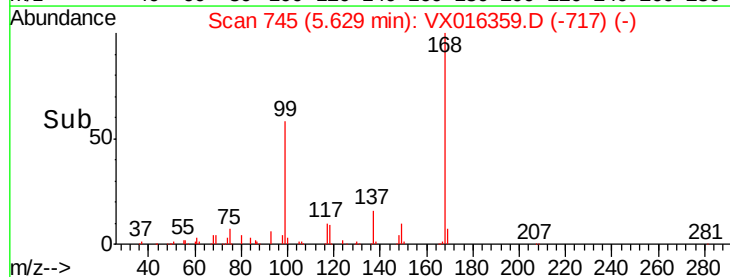
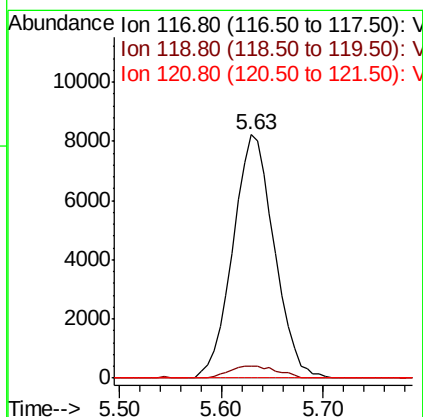
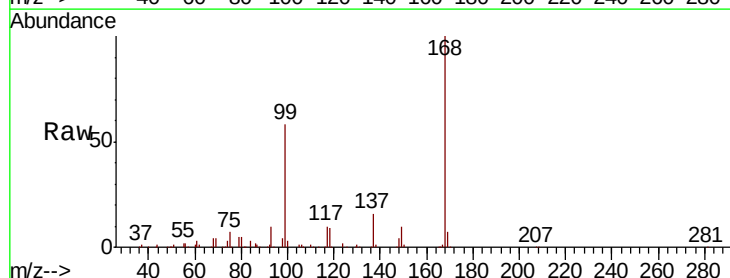
Instrument :
MSVOA_X
ClientSampleId :

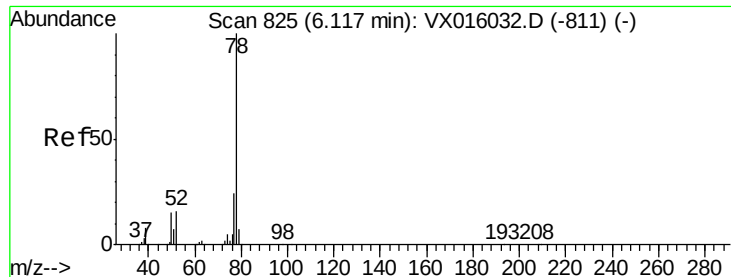
Tot Ion	Ratio	Lower	Upper
43	100		
61	12.0	11.7	17.5
70	13.5	9.3	13.9



#38
Carbon Tetrachloride
Concen: 5.576 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	80.3	120.5#
121	0.0	25.7	38.5#

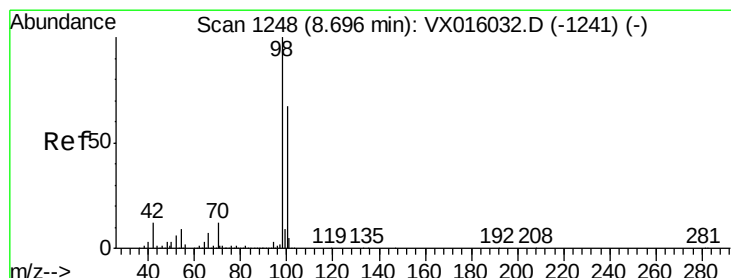
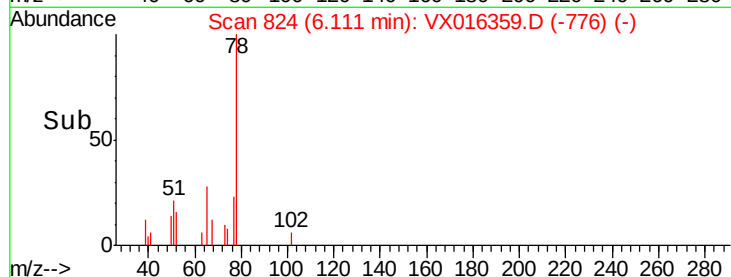
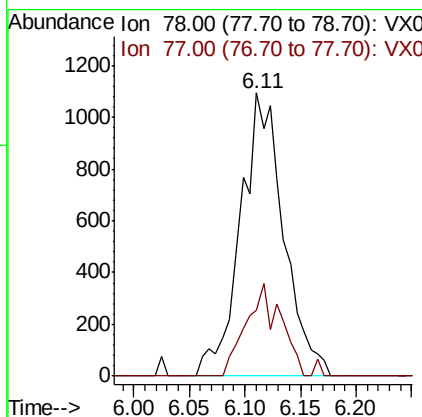
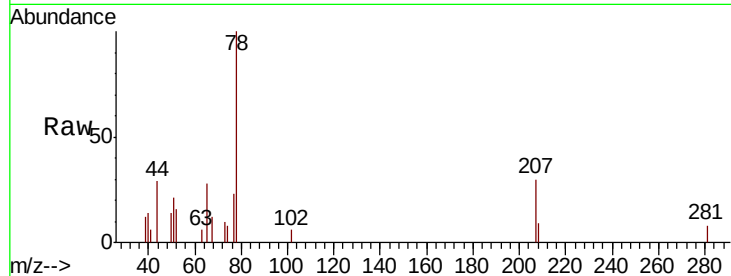




#40
Benzene
Concen: 0.248 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.01 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

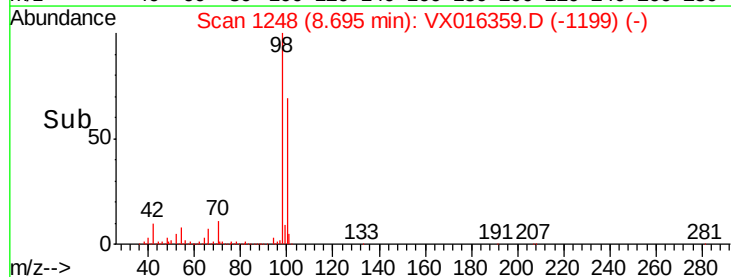
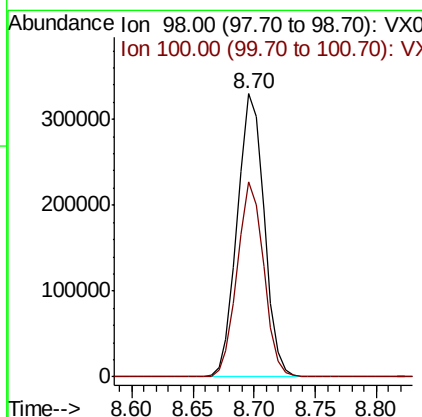
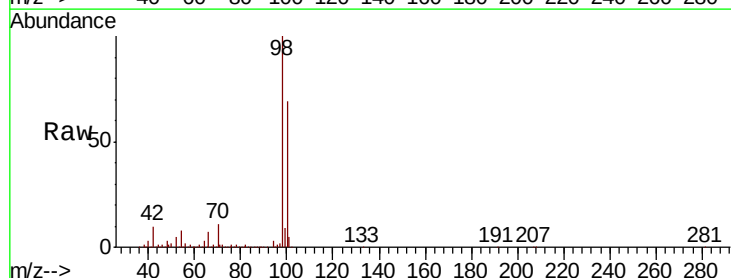
Instrument :
MSVOA_X
ClientSampleId :

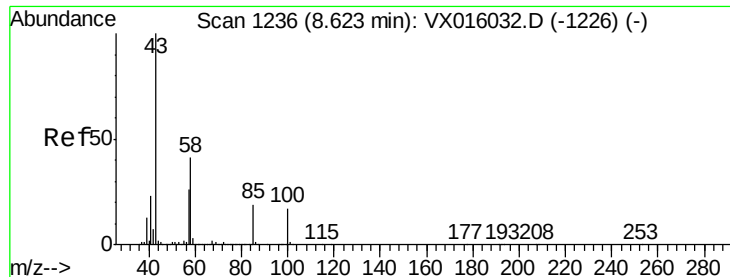
Tot Ion: 78 Resp: 2945
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.4



#50
Toluene-d8
Concen: 50.139 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

Tgt Ion: 98 Resp: 505545
Ion Ratio Lower Upper
98 100
100 67.4 53.7 80.5

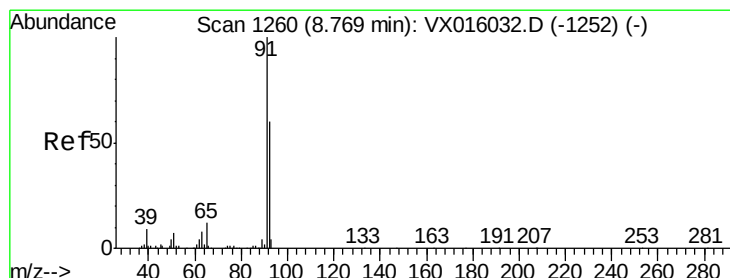
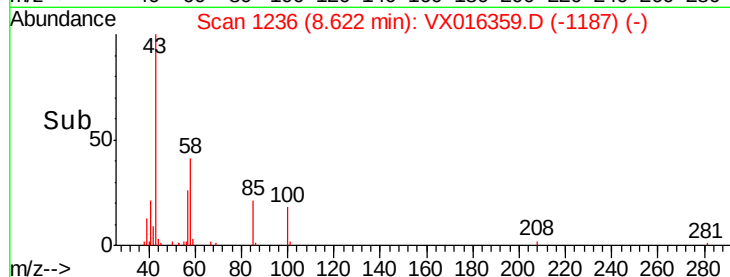
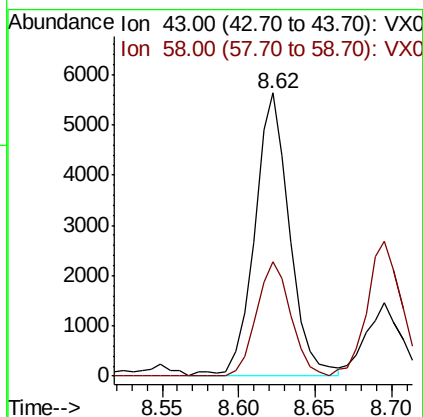
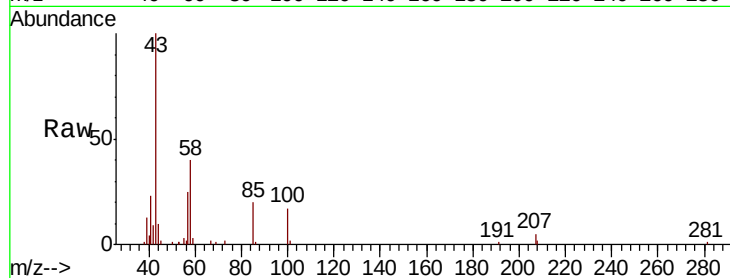




#51
4-Methyl-2-Pentanone
Concen: 1.945 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

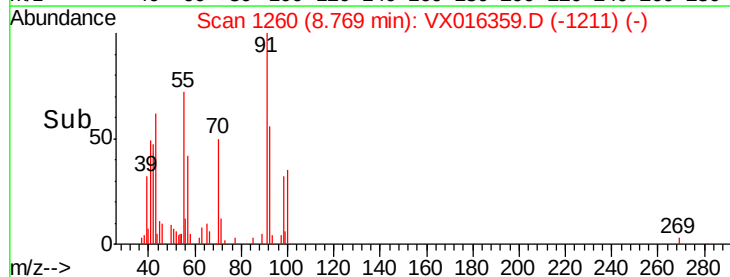
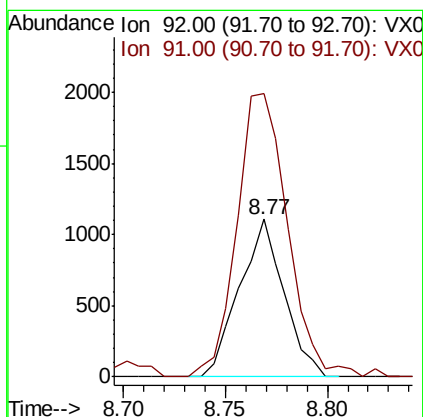
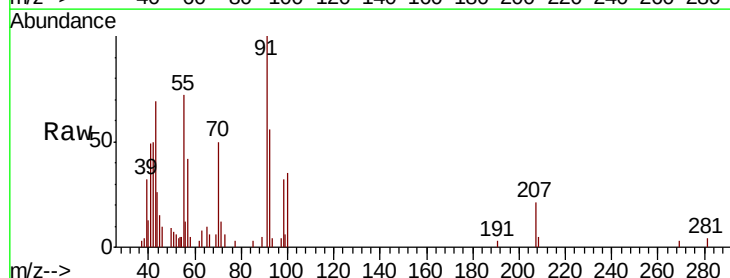
Instrument :
MSVOA_X
ClientSampleId :

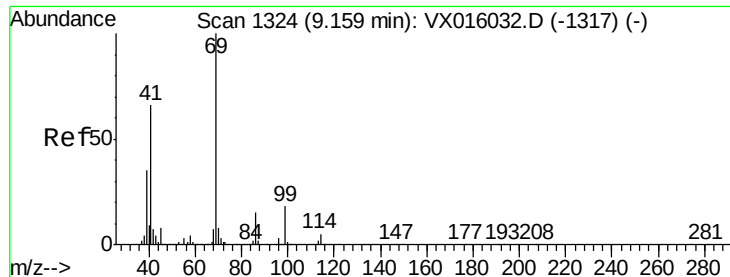
Tot Ion: 43 Resp: 8948
Ion Ratio Lower Upper
43 100
58 39.4 33.0 49.4



#52
Toluene
Concen: 0.226 ug/l
RT: 8.77 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VX016359.D
Acq: 20 May 2020 14:51

Tgt Ion: 92 Resp: 1679
Ion Ratio Lower Upper
92 100
91 205.4 134.5 201.7#





#56

Ethyl methacrylate

Concen: 0.281 ug/l

RT: 9.07 min Scan# 1310

Delta R.T. -0.09 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

ClientSampled :

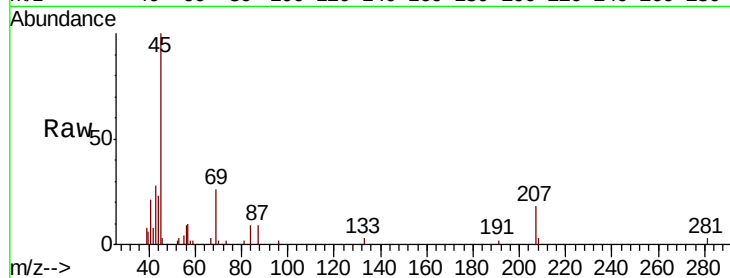
Tot Ion: 69 Resp: 1336

Ion Ratio Lower Upper

69 100

41 139.3 52.2 78.4#

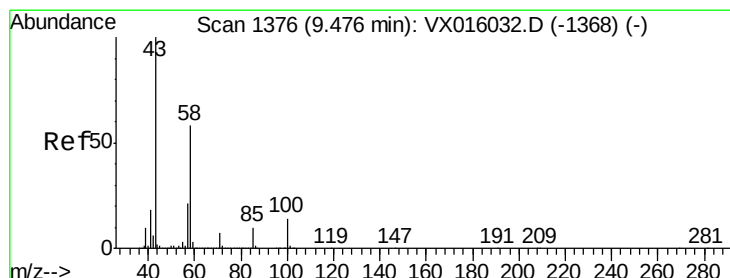
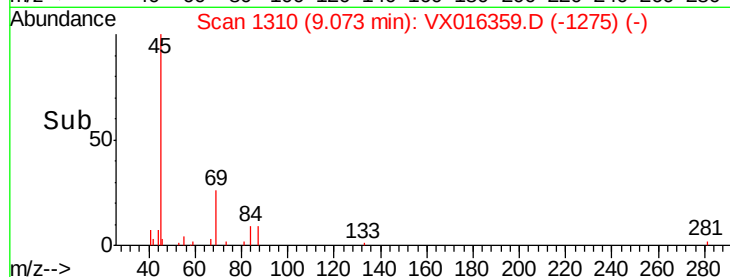
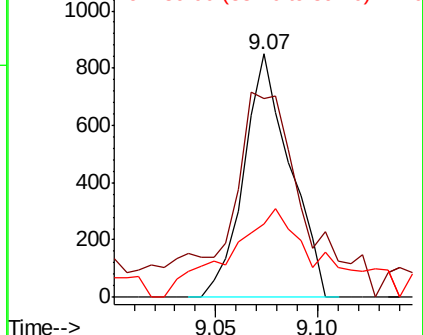
39 72.8 28.2 42.4#



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



#59

2-Hexanone

Concen: 3.241 ug/l

RT: 9.48 min Scan# 1376

Delta R.T. -0.00 min

Lab File: VX016359.D

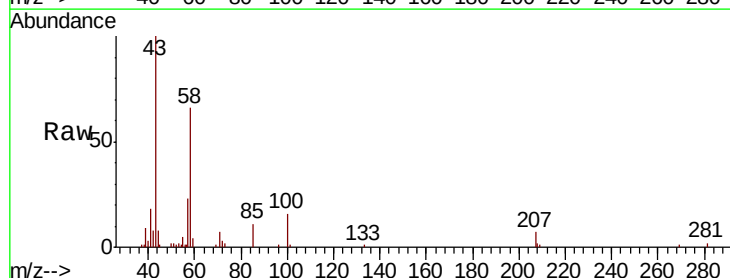
Acq: 20 May 2020 14:51

Tgt Ion: 43 Resp: 11710

Ion Ratio Lower Upper

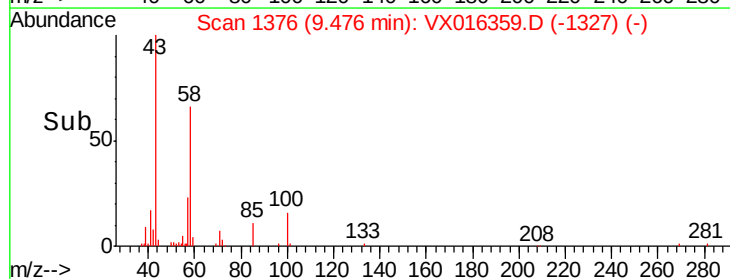
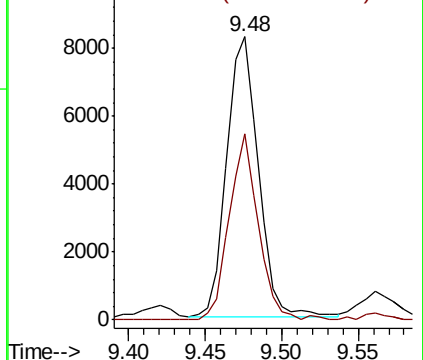
43 100

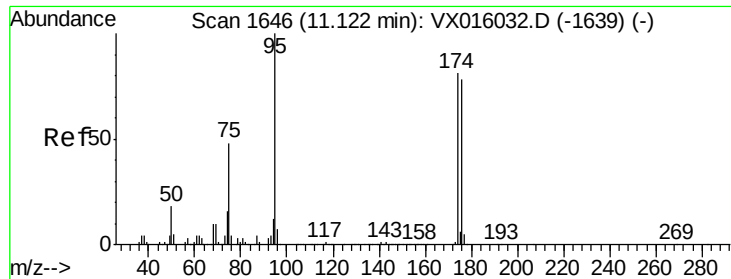
58 61.0 28.6 85.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.915 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

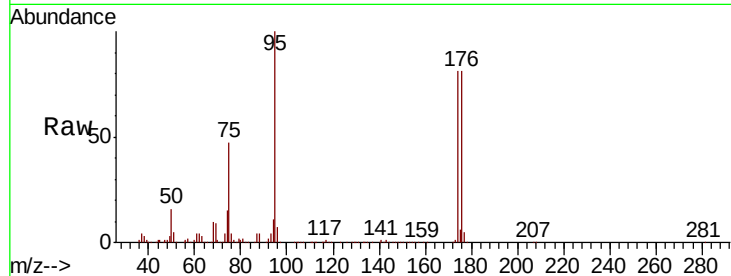
Tot Ion: 95 Resp: 202929

Ion Ratio Lower Upper

95 100

174 80.9 0.0 159.4

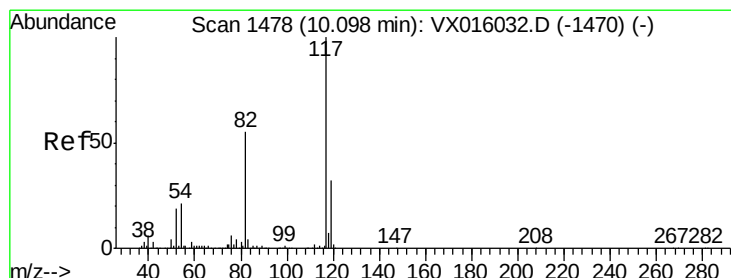
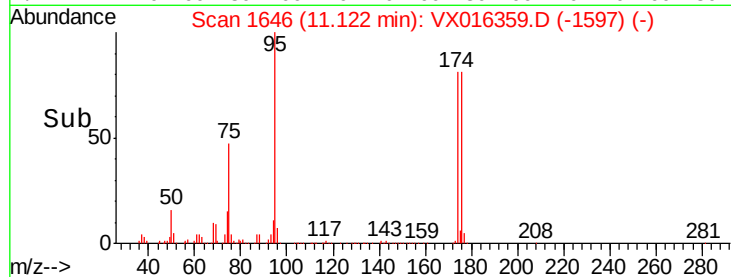
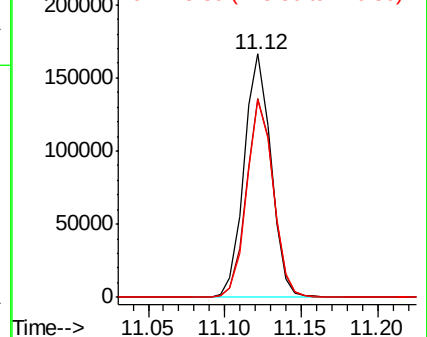
176 79.9 0.0 157.6



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: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

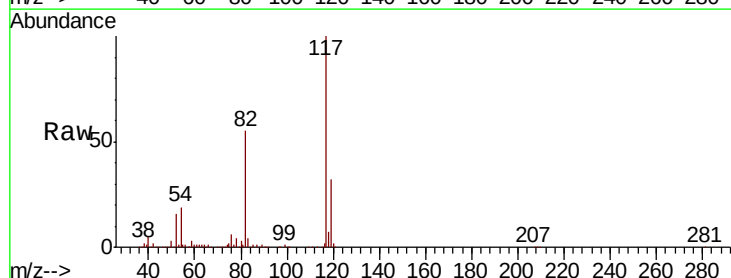
Tgt Ion: 117 Resp: 405088

Ion Ratio Lower Upper

117 100

82 54.5 44.4 66.6

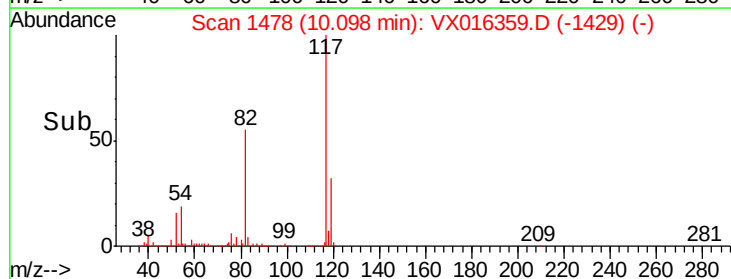
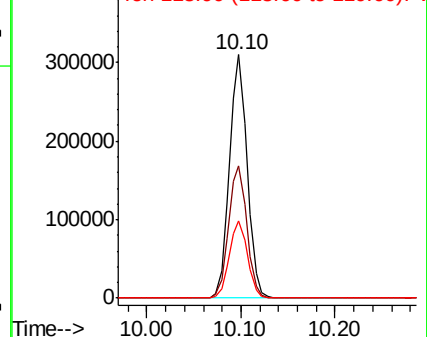
119 31.9 25.5 38.3

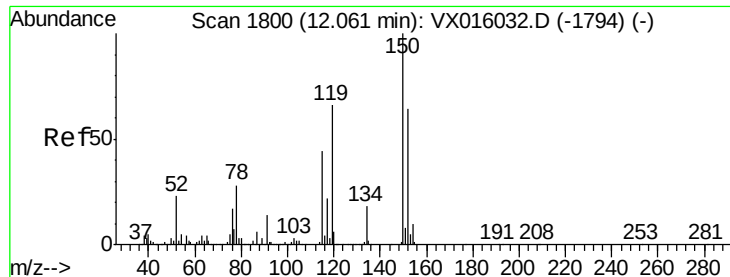


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

ClientSampleId :

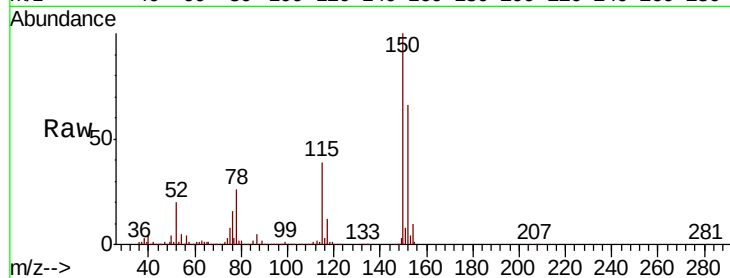
Tot Ion:152 Resp: 205407

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

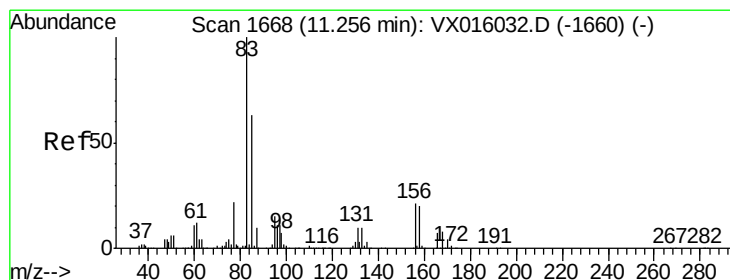
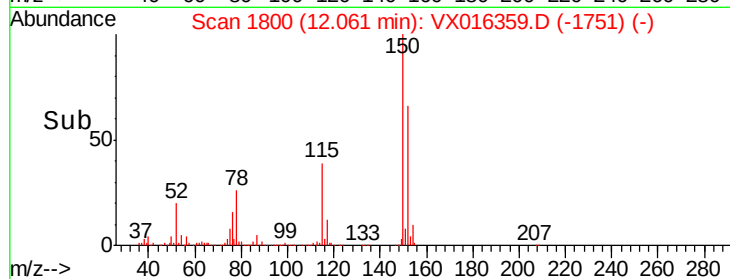
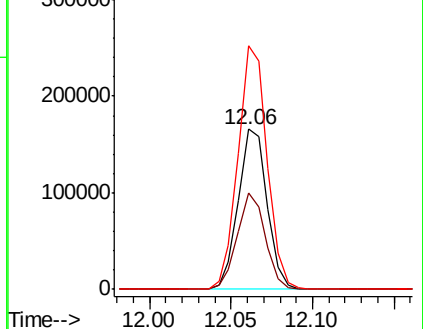
150 152.7 0.0 352.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.058 ug/l

RT: 11.23 min Scan# 1663

Delta R.T. -0.03 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

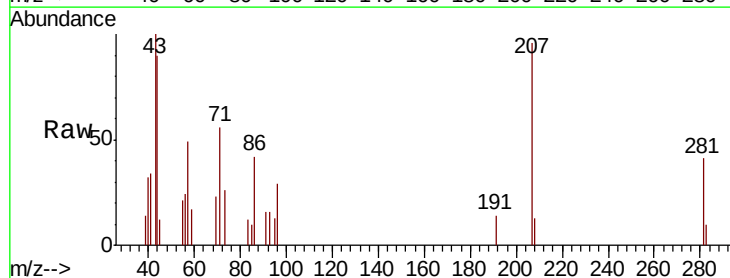
Tgt Ion: 83 Resp: 25

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

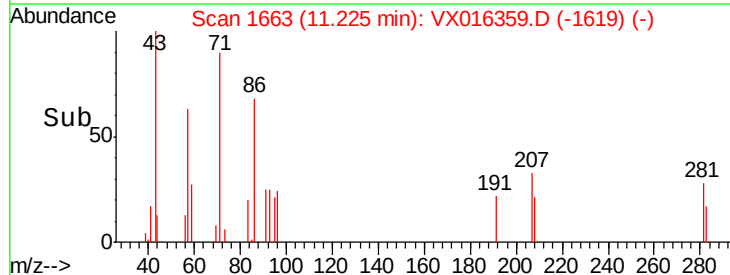
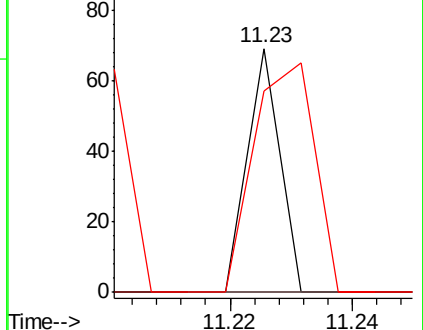
85 180.0 32.0 96.0#

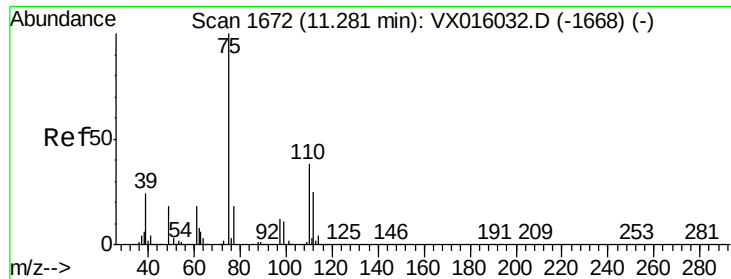


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 20.633 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

Instrument :

MSVOA_X

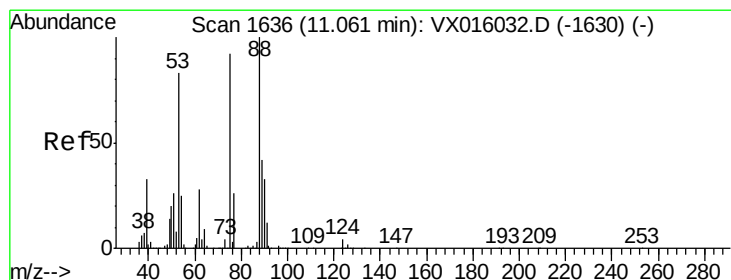
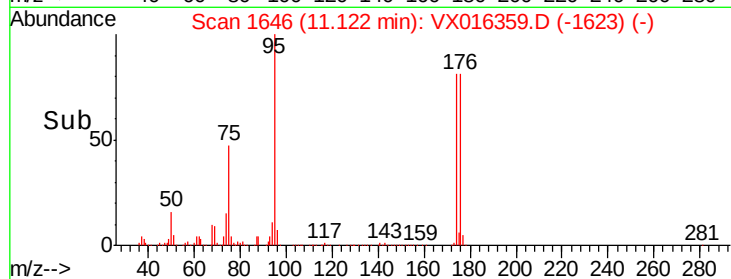
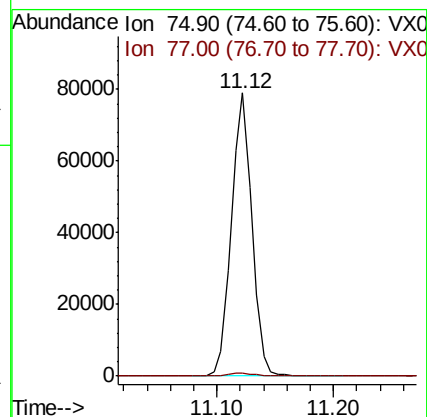
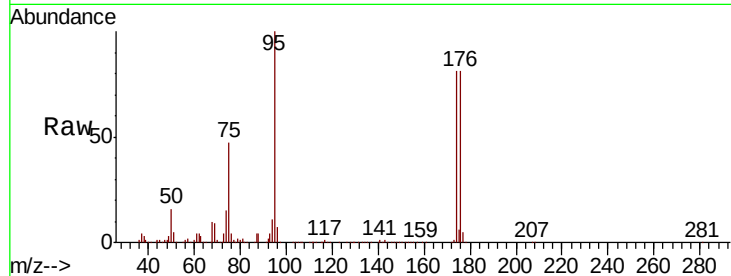
ClientSampleId :

Tot Ion: 75 Resp: 96175

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 49.171 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016359.D

Acq: 20 May 2020 14:51

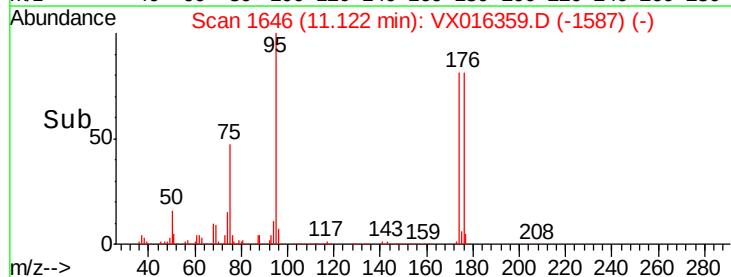
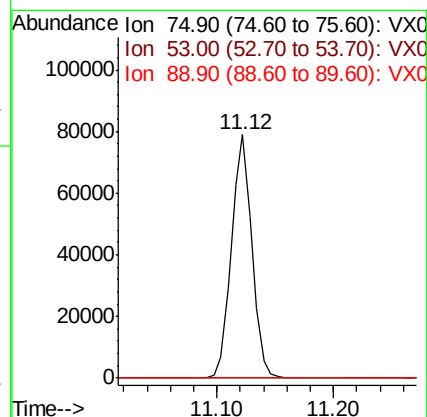
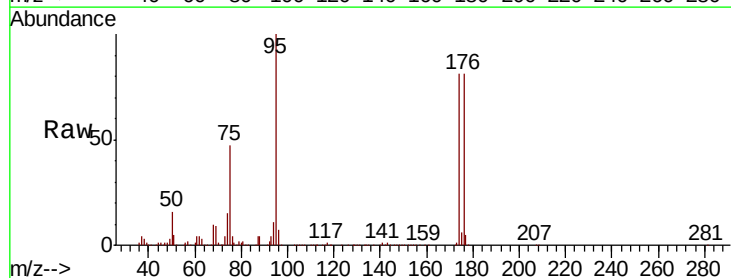
Tgt Ion: 75 Resp: 96175

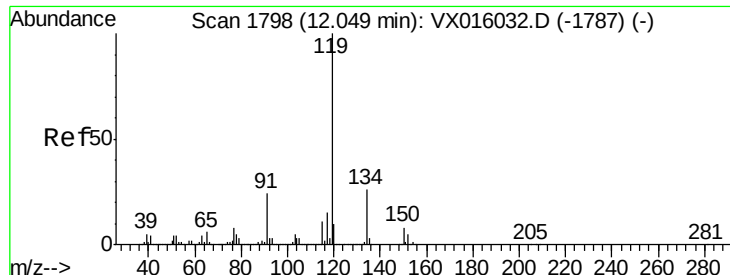
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#





#86
 p-Isopropyltoluene
 Concen: 0.443 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX016359.D
 Acq: 20 May 2020 14:51

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	29.4	13.1	39.3
91	33.2	11.8	35.4

