

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051320\
 Data File : VX016185.D
 Acq On : 13 May 2020 17:22
 Operator : JC/SP
 Sample : L2626-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW738-200512

Quant Time: May 14 04:31:36 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	5.64	168	274189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	452105	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	453853	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	231088	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	168673	46.75	ug/l	0.00
Spiked Amount			Recovery	=	93.50%	
35) Dibromofluoromethane	5.47	113	134572	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
50) Toluene-d8	8.70	98	564159	51.12	ug/l	0.00
Spiked Amount			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.12	95	225377	53.69	ug/l	0.00
Spiked Amount			Recovery	=	107.38%	

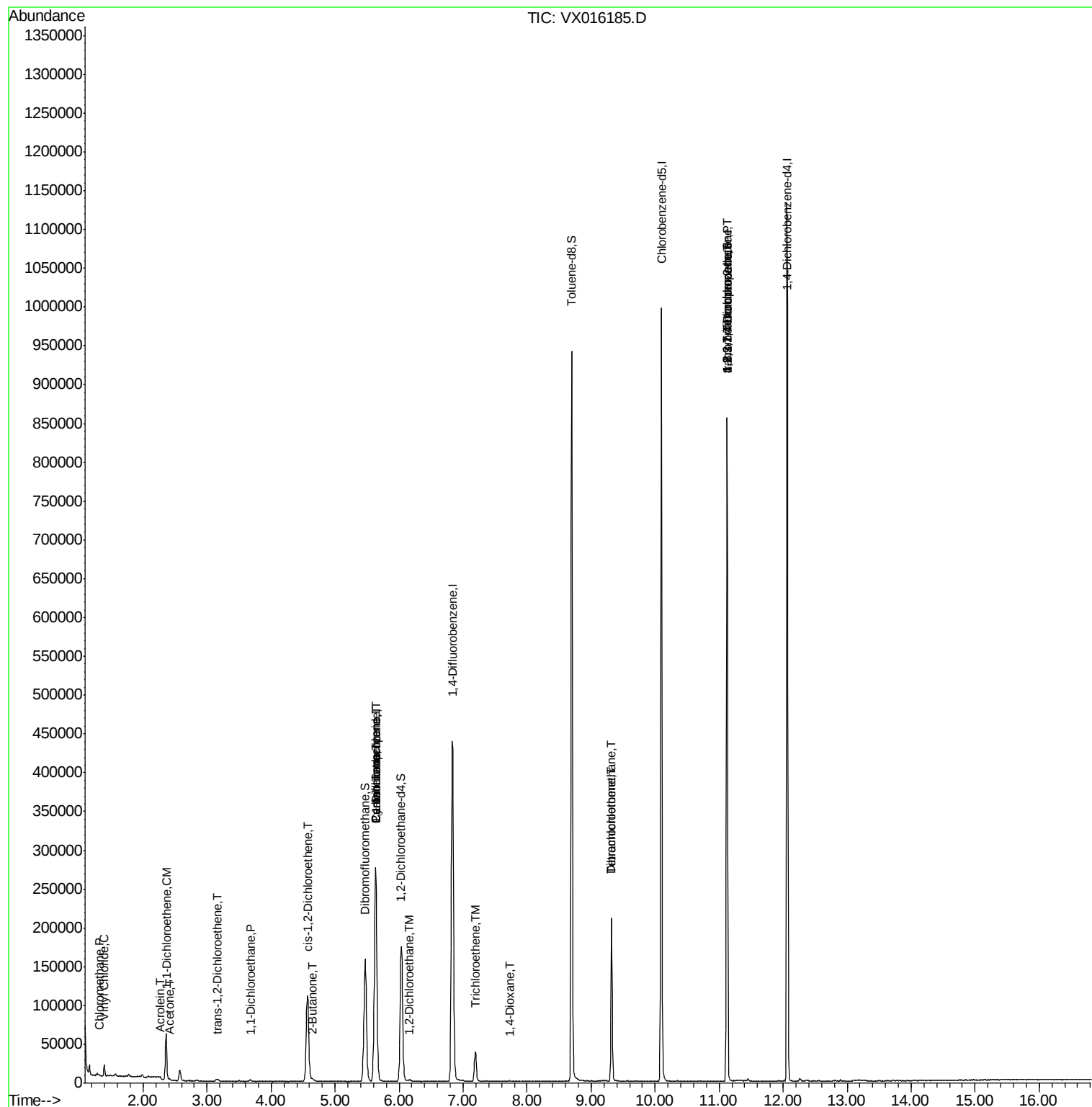
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1040	0.309	ug/l	94
4) Vinyl Chloride	1.39	62	3109	0.865	ug/l	97
12) 1,1-Dichloroethene	2.36	96	22056	7.738	ug/l	98
13) Acrolein	2.28	56	310	0.543	ug/l #	44
16) Acetone	2.42	43	2677	1.663	ug/l	97
17) Carbon Disulfide	2.56	76	916	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.15	96	1317	0.415	ug/l #	73
24) 1,1-Dichloroethane	3.67	63	2877	0.522	ug/l #	87
25) 2-Butanone	4.65	43	548	0.211	ug/l #	48
27) cis-1,2-Dichloroethene	4.57	96	72860	20.983	ug/l	88
31) Cyclohexane	5.63	56	5167	1.031	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19733	4.434	ug/l #	50
38) Carbon Tetrachloride	5.64	117	26681	5.898	ug/l #	14
42) 1,2-Dichloroethane	6.16	62	1833	0.391	ug/l	96
44) Trichloroethene	7.19	130	14505	3.136	ug/l	98
49) 1,4-Dioxane	7.73	88	524	5.603	ug/l #	84
60) Dibromochloromethane	9.32	129	37431	10.643	ug/l #	11
64) Tetrachloroethene	9.32	164	41282	7.409	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.12	83	232	2.123	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	111187	21.203	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	111187	50.528	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

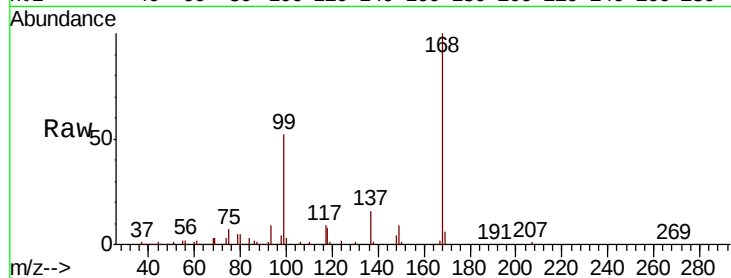
SS052MW738-200512

Tot Ion:168 Resp: 274189

Ion Ratio Lower Upper

168 100

99 51.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

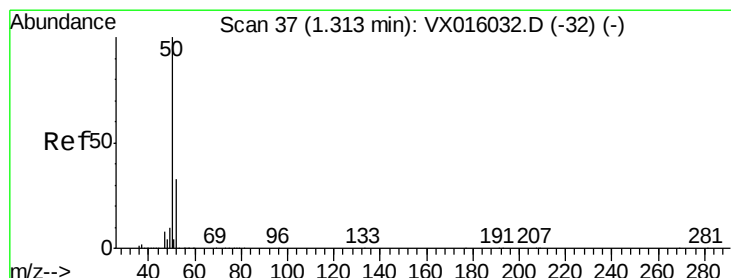
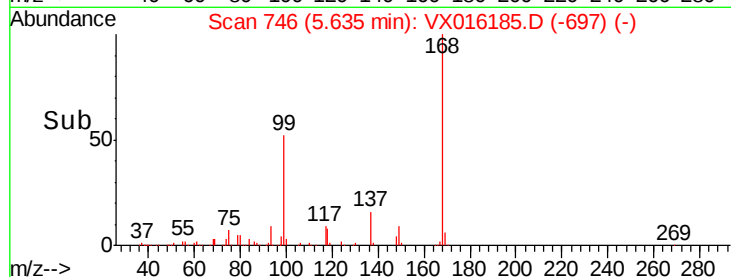
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.309 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016185.D

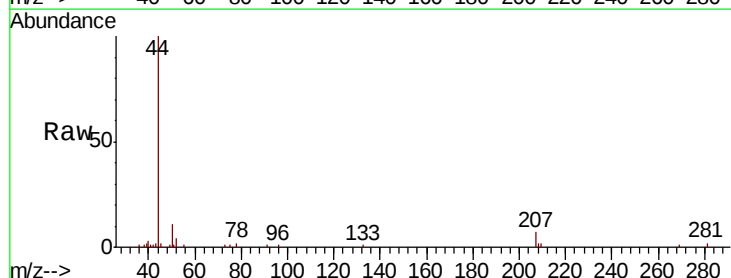
Acq: 13 May 2020 17:22

Tgt Ion: 50 Resp: 1040

Ion Ratio Lower Upper

50 100

52 35.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

800

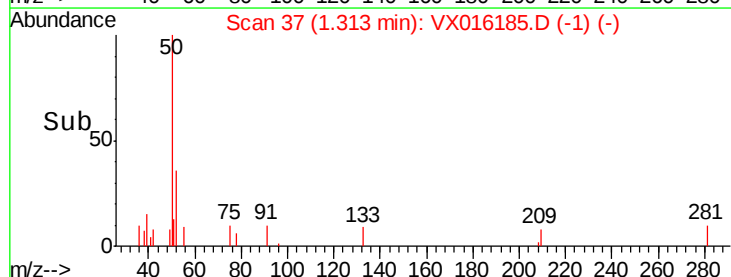
600

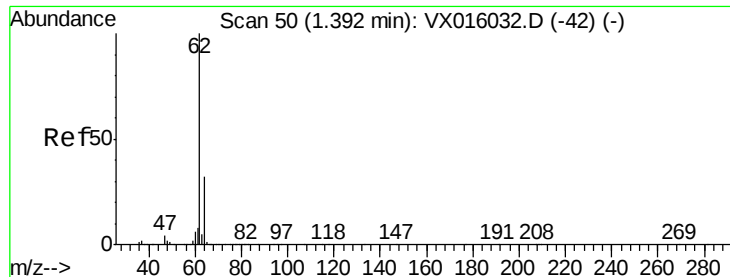
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.865 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

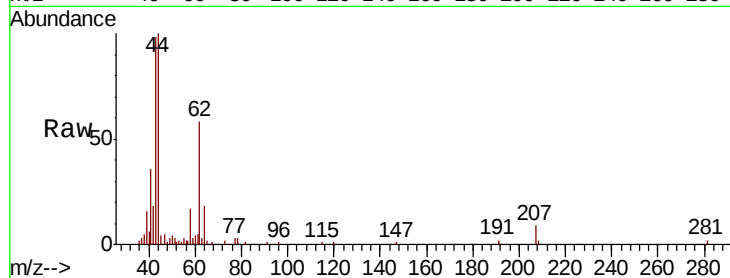
SS052MW738-200512

Tot Ion: 62 Resp: 3109

Ion Ratio Lower Upper

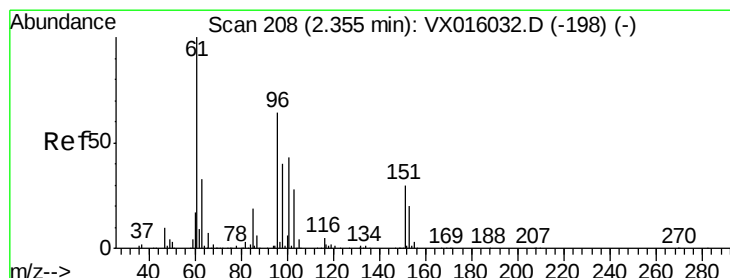
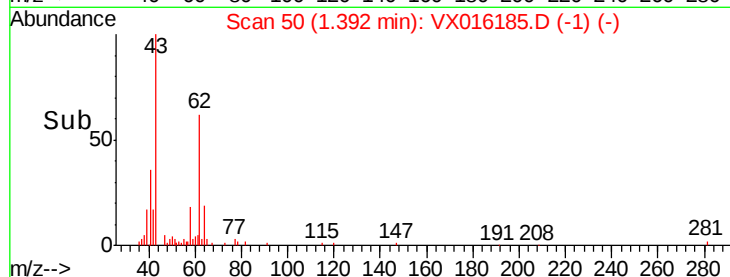
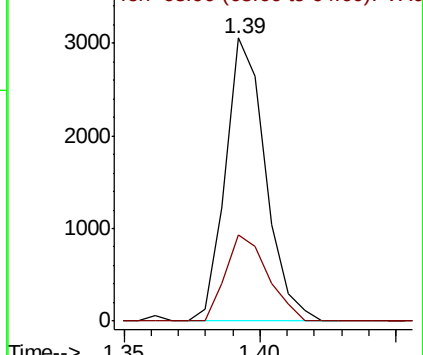
62 100

64 30.6 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#12

1,1-Dichloroethene

Concen: 7.738 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

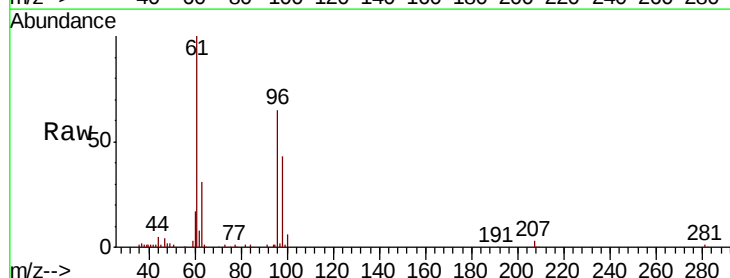
Tgt Ion: 96 Resp: 22056

Ion Ratio Lower Upper

96 100

61 154.0 124.8 187.2

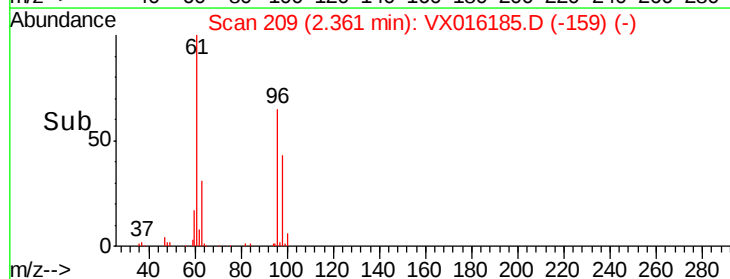
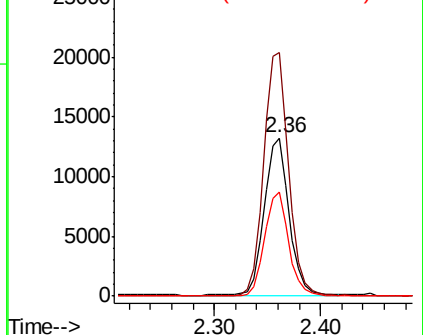
98 65.7 49.7 74.5



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: 0.543 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

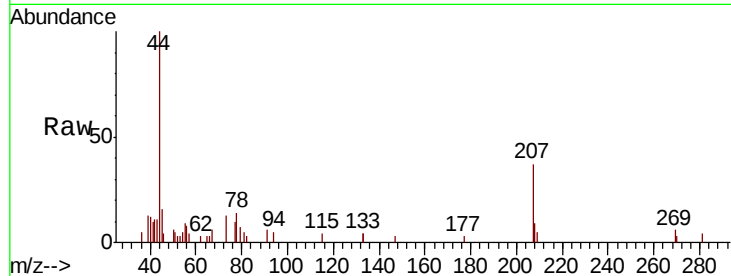
SS052MW738-200512

Tot Ion: 56 Resp: 310

Ion Ratio Lower Upper

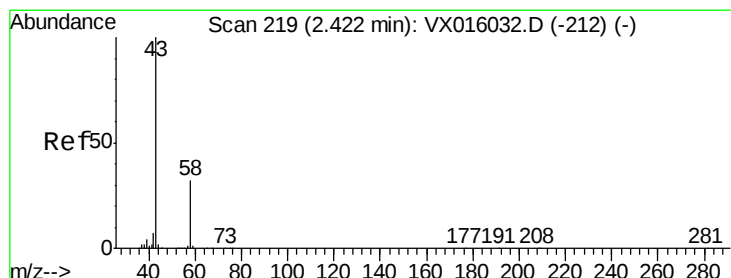
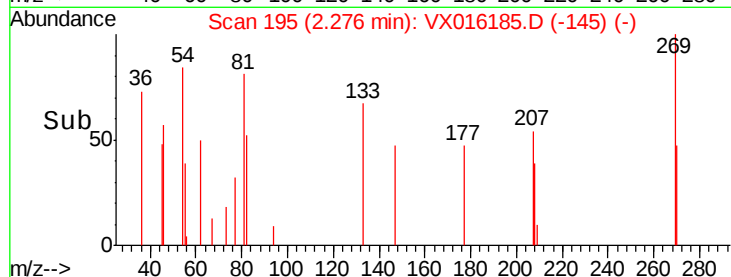
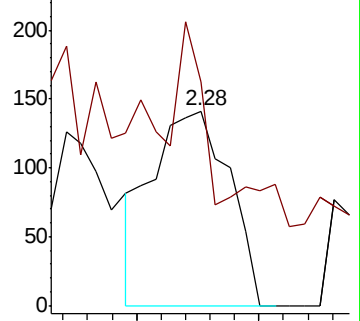
56 100

55 24.2 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 1.663 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016185.D

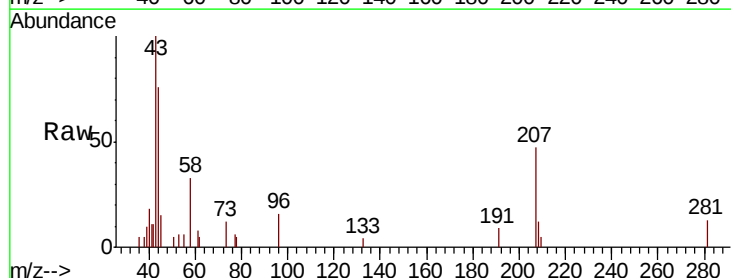
Acq: 13 May 2020 17:22

Tgt Ion: 43 Resp: 2677

Ion Ratio Lower Upper

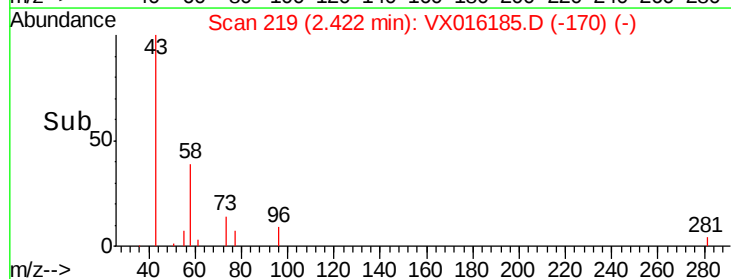
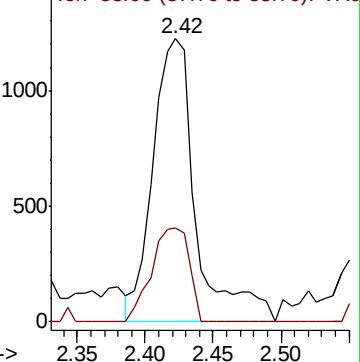
43 100

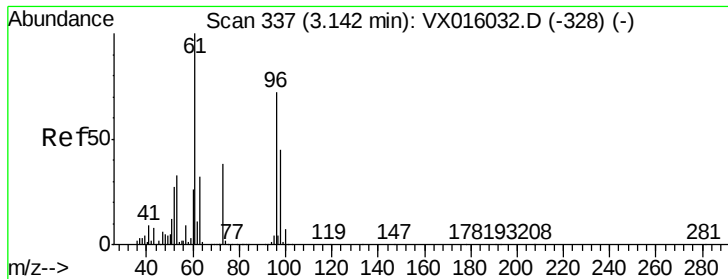
58 33.1 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.415 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

SS052MW738-200512

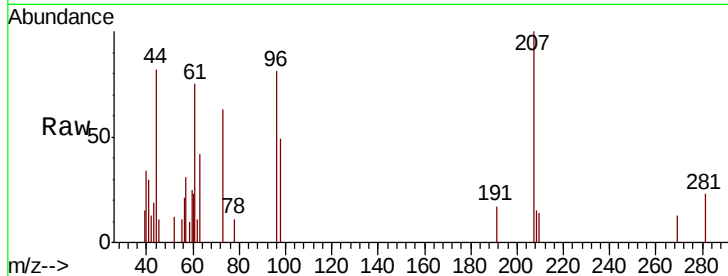
Tot Ion: 96 Resp: 1317

Ion Ratio Lower Upper

96 100

61 92.3 111.2 166.8#

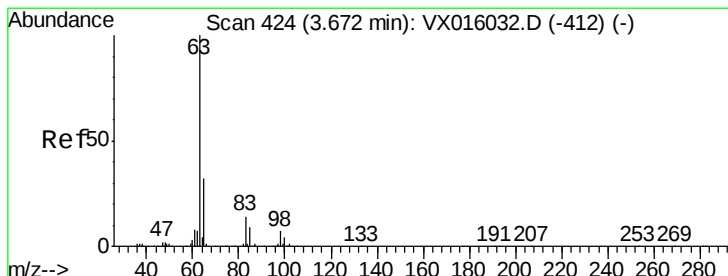
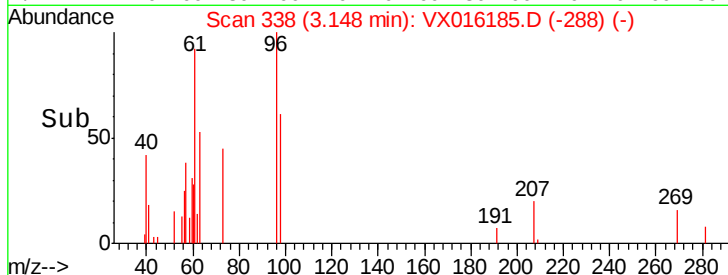
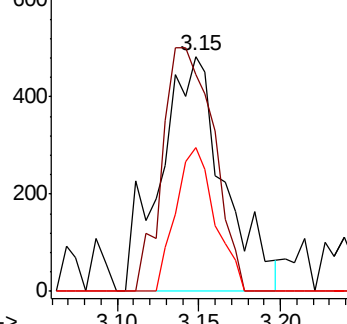
98 61.1 50.2 75.4



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



#24

1,1-Dichloroethane

Concen: 0.522 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

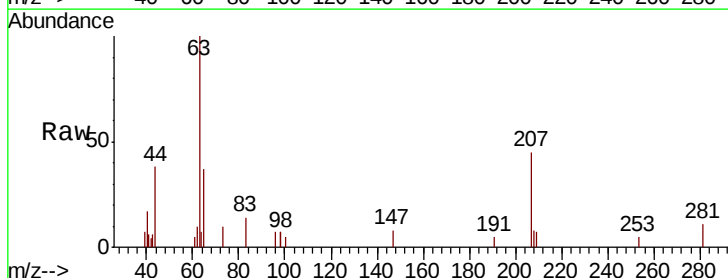
Tgt Ion: 63 Resp: 2877

Ion Ratio Lower Upper

63 100

98 14.1 3.5 10.5#

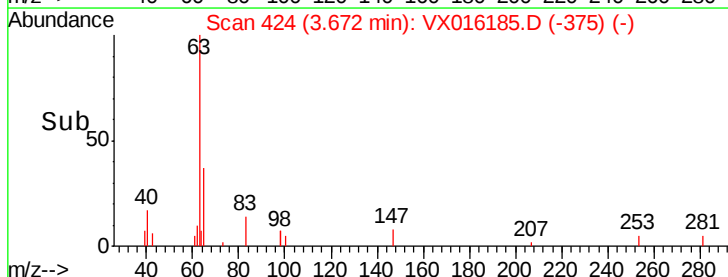
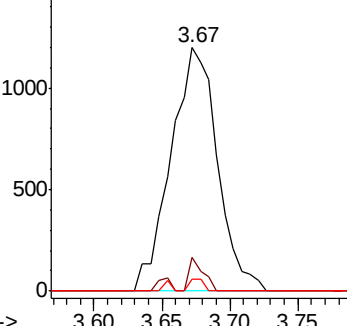
100 4.9 2.1 6.5

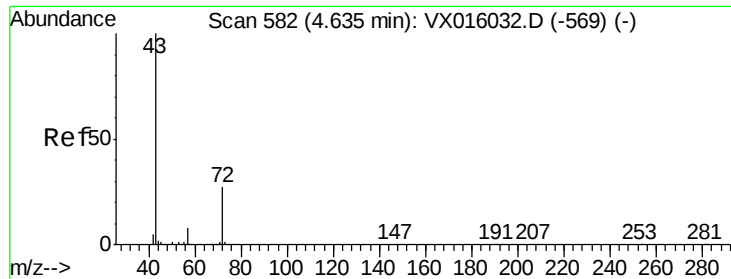


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 0.211 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

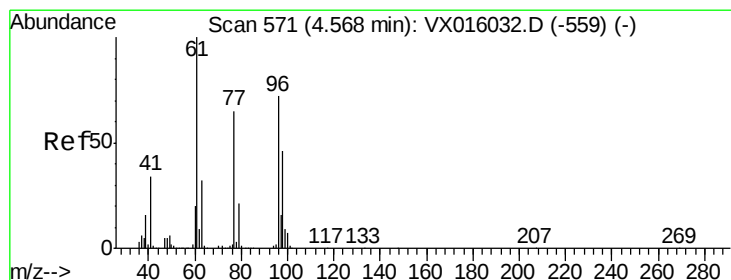
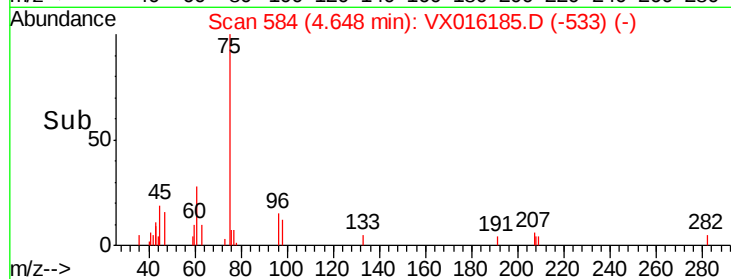
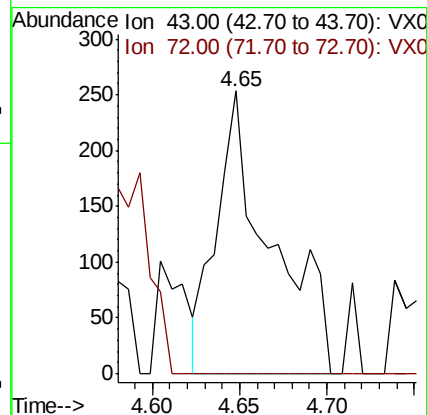
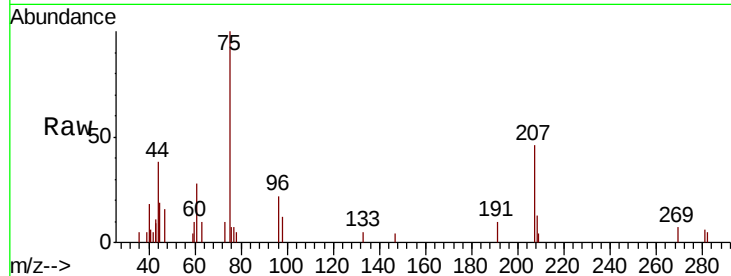
SS052MW738-200512

Tot Ion: 43 Resp: 548

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.8#



#27

cis-1,2-Dichloroethene

Concen: 20.983 ug/l

RT: 4.57 min Scan# 571

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

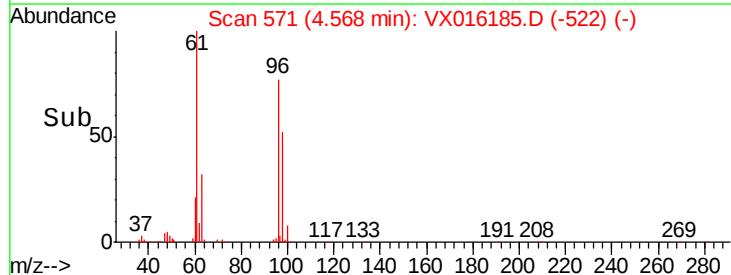
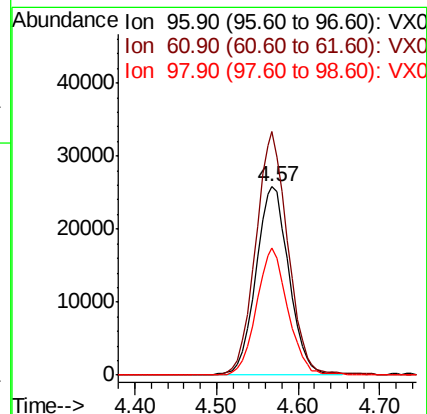
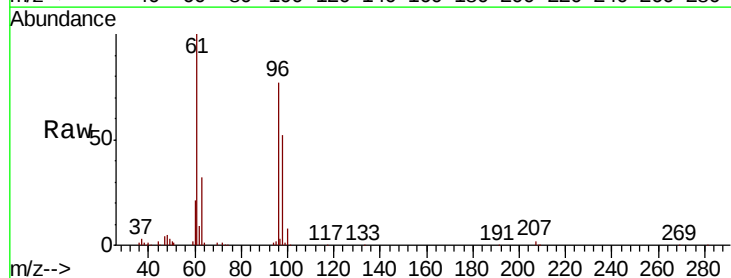
Tgt Ion: 96 Resp: 72860

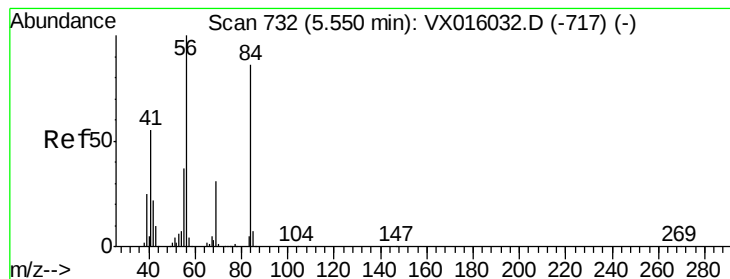
Ion Ratio Lower Upper

96 100

61 126.3 0.0 296.2

98 64.0 0.0 129.4





#31

Cyclohexane

Concen: 1.031 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016185.D

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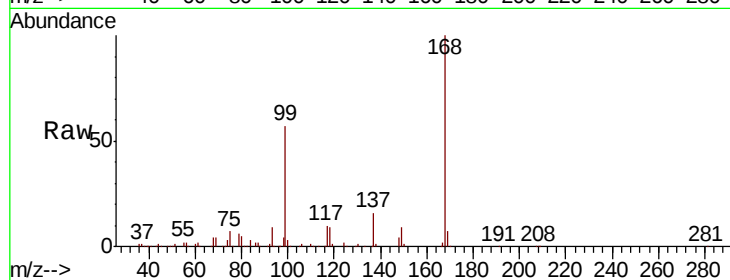
Tot Ion: 56 Resp: 5167

Ion Ratio Lower Upper

56 100

69 206.2 25.0 37.6#

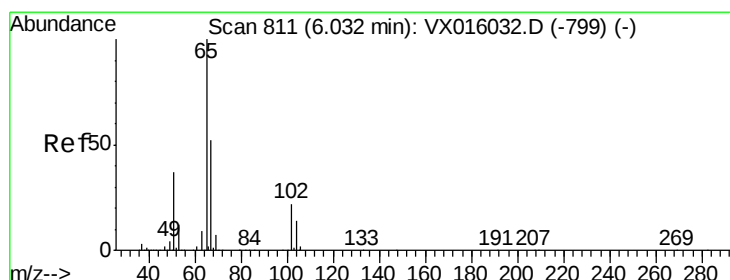
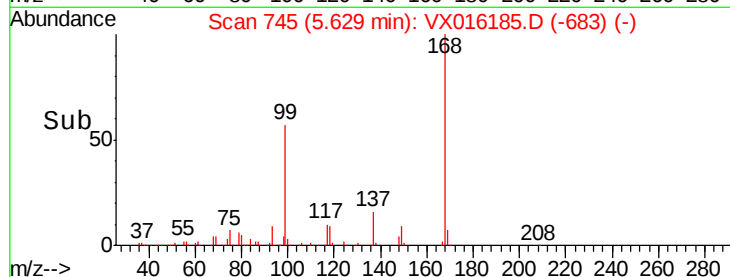
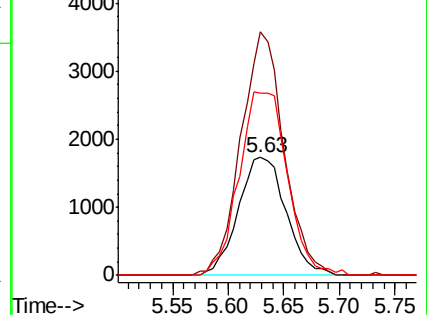
84 154.0 69.0 103.6#



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: 46.749 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016185.D

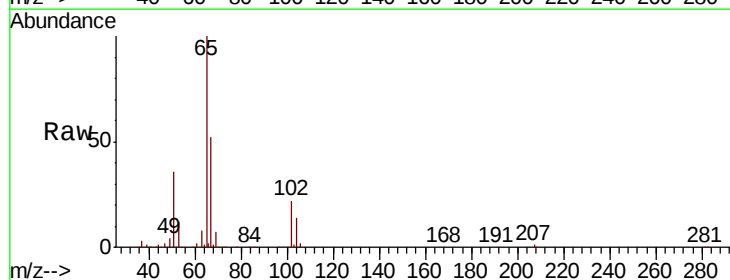
Acq: 13 May 2020 17:22

Tgt Ion: 65 Resp: 168673

Ion Ratio Lower Upper

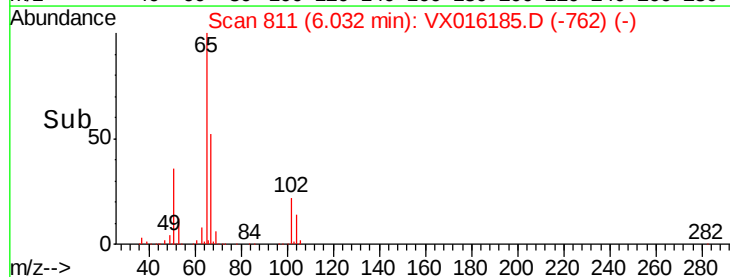
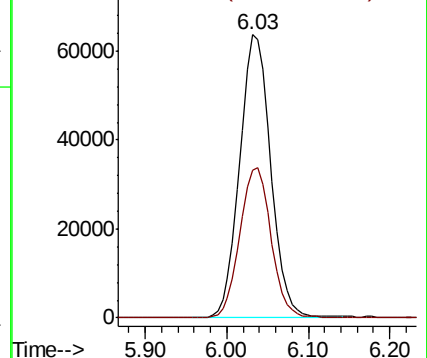
65 100

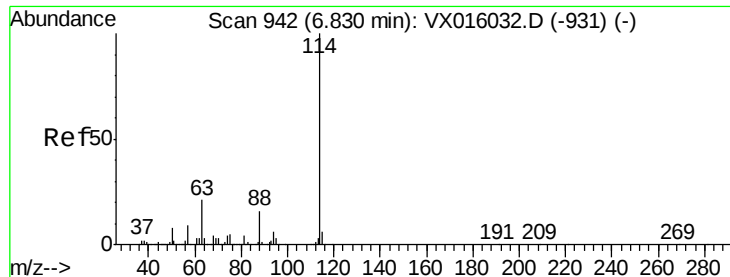
67 53.3 0.0 104.8



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: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

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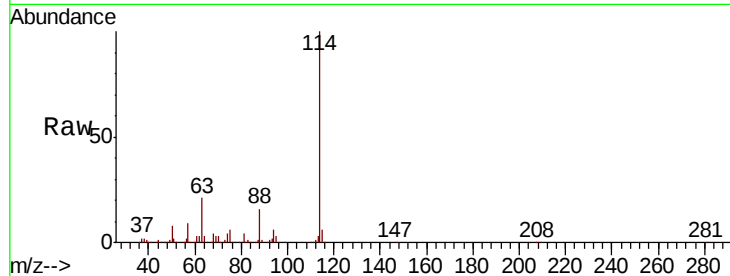
Tot Ion:114 Resp: 452105

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.8

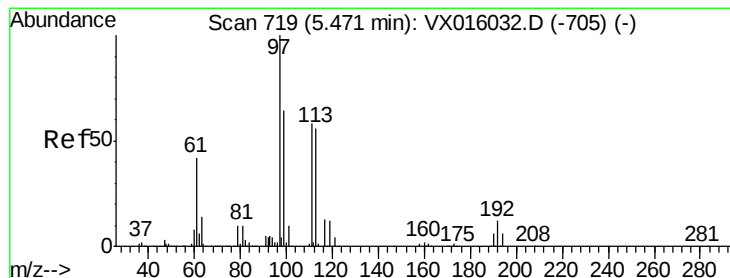
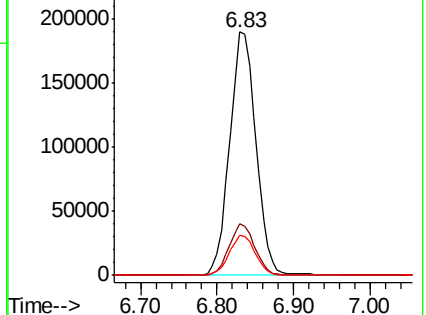
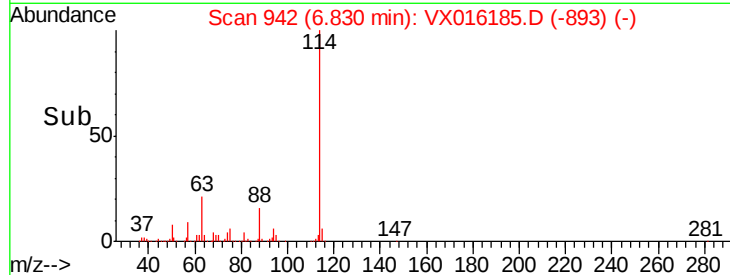
88 16.4 0.0 31.4



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: 46.983 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

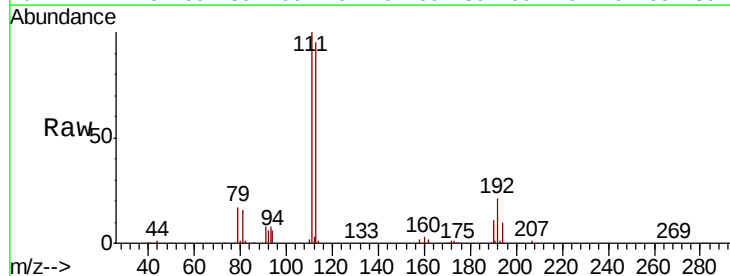
Tgt Ion:113 Resp: 134572

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

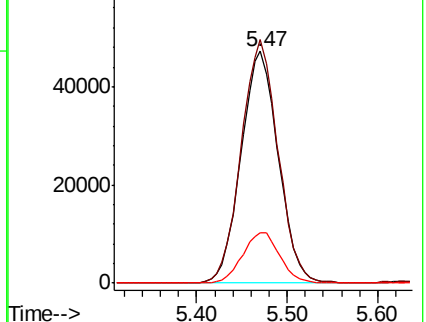
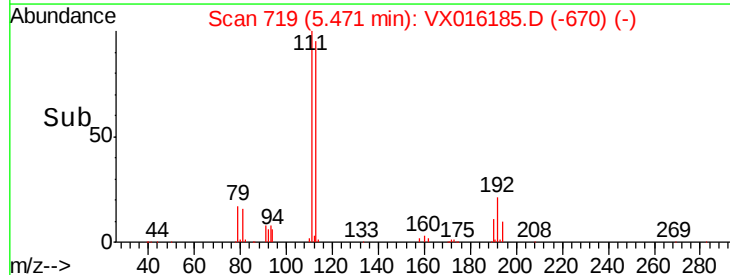
192 21.9 17.0 25.4

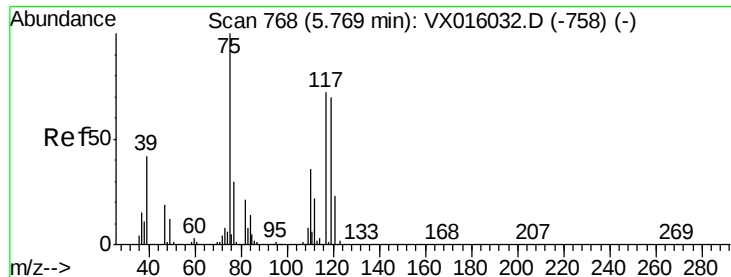


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.434 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

SS052MW738-200512

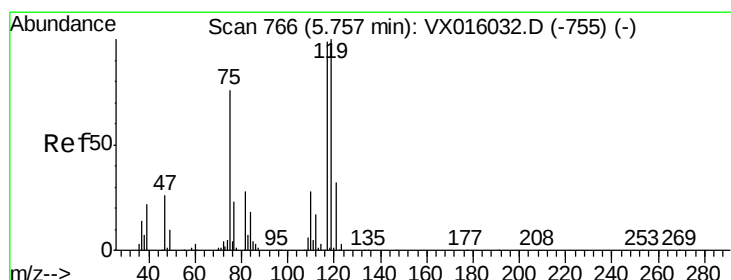
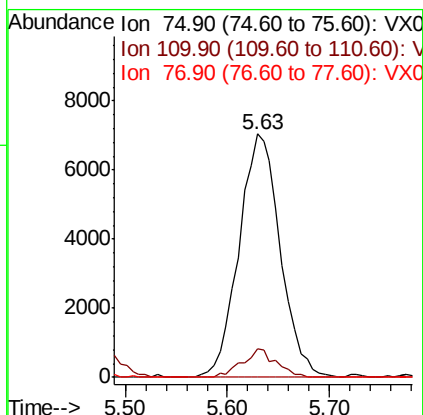
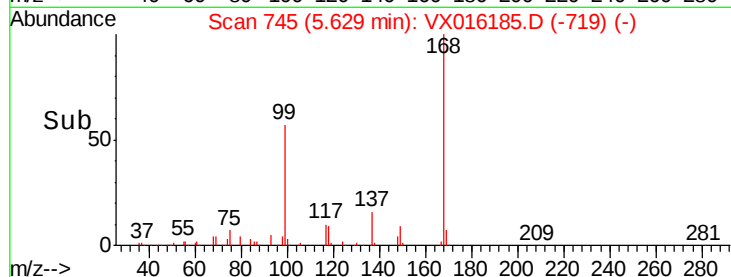
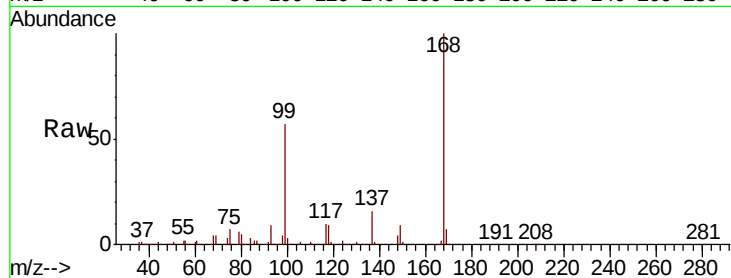
Tot Ion: 75 Resp: 19733

Ion Ratio Lower Upper

75 100

110 9.6 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.898 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

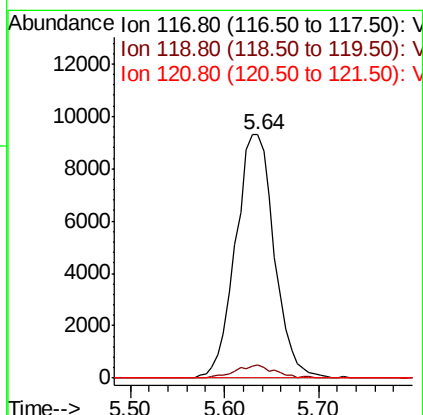
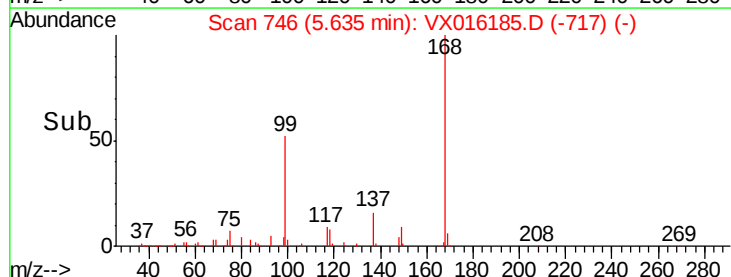
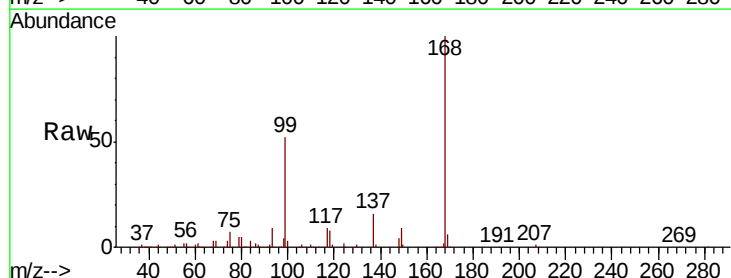
Tgt Ion: 117 Resp: 26681

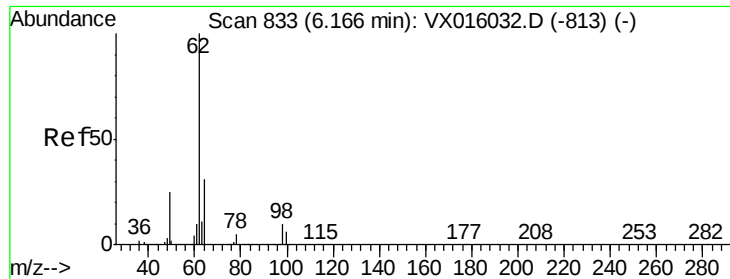
Ion Ratio Lower Upper

117 100

119 5.4 80.3 120.5#

121 0.0 25.7 38.5#





#42

1,2-Dichloroethane

Concen: 0.391 ug/l

RT: 6.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

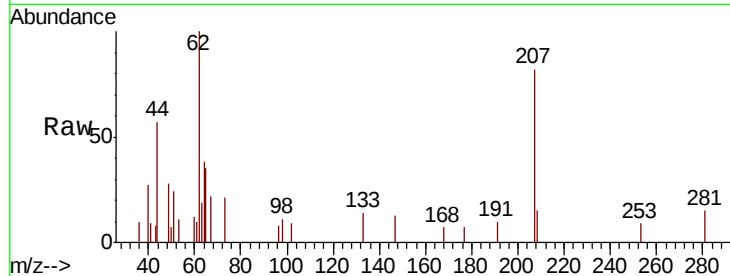
SS052MW738-200512

Tot Ion: 62 Resp: 1833

Ion Ratio Lower Upper

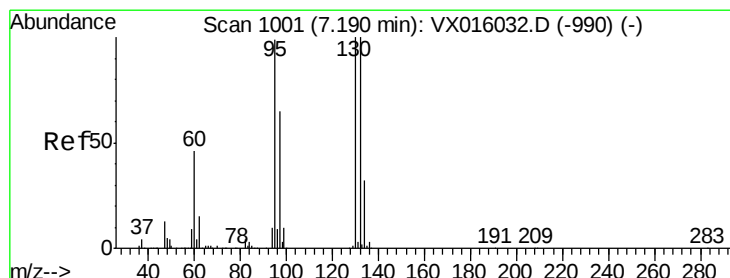
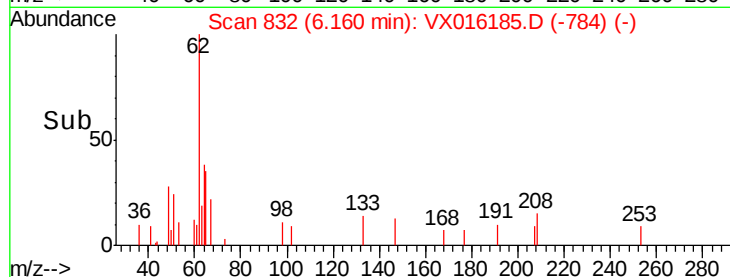
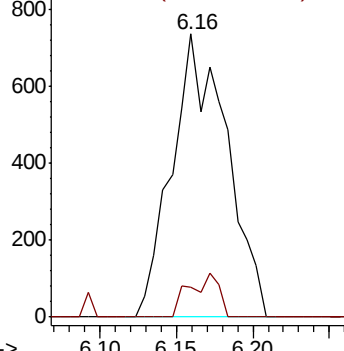
62 100

98 8.4 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#44

Trichloroethene

Concen: 3.136 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX016185.D

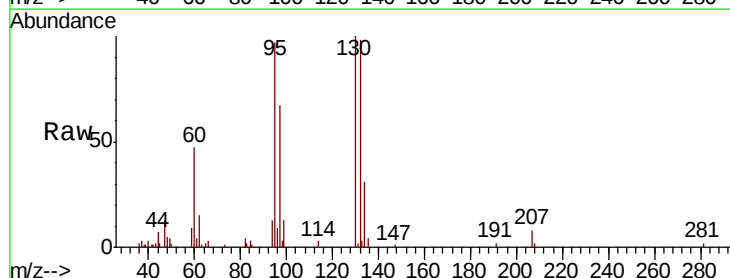
Acq: 13 May 2020 17:22

Tgt Ion: 130 Resp: 14505

Ion Ratio Lower Upper

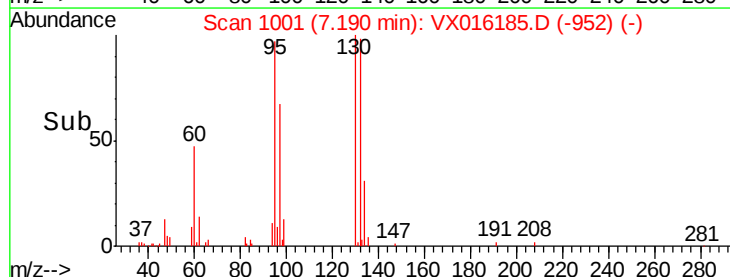
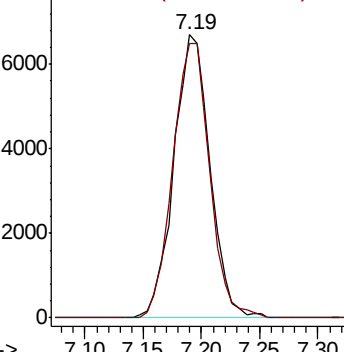
130 100

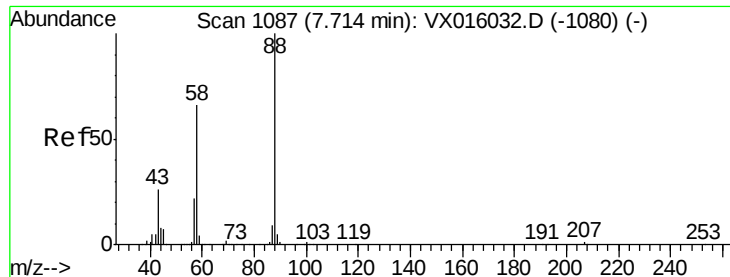
95 97.0 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

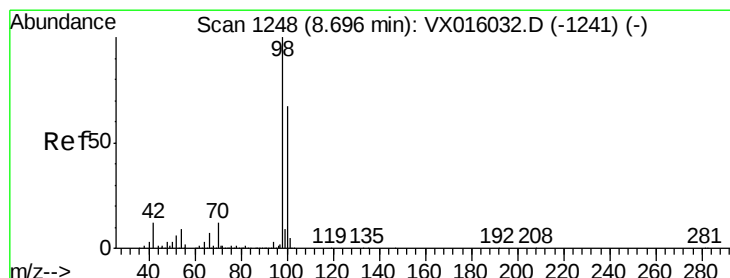
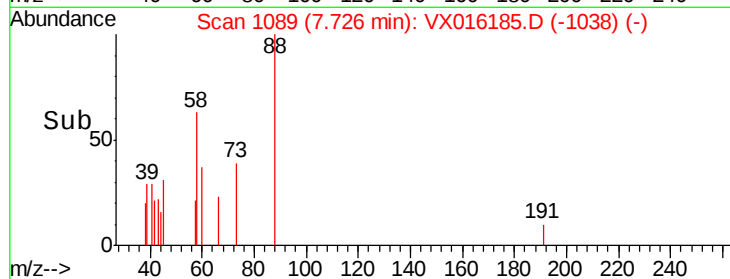
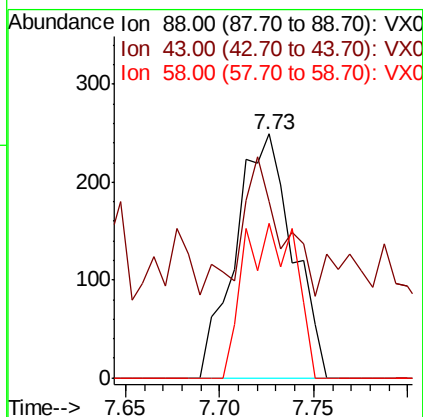
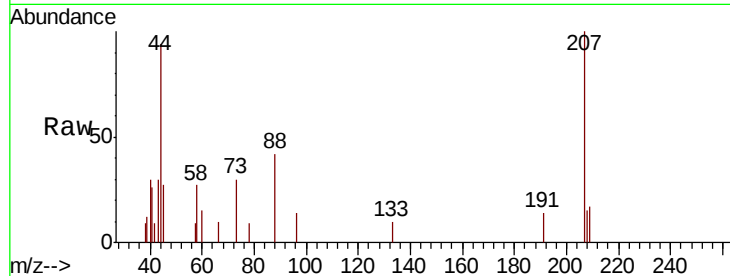




#49
 1,4-Dioxane
 Concen: 5.603 ug/l
 RT: 7.73 min Scan# 1089
 Delta R.T. 0.01 min
 Lab File: VX016185.D
 Acq: 13 May 2020 17:22

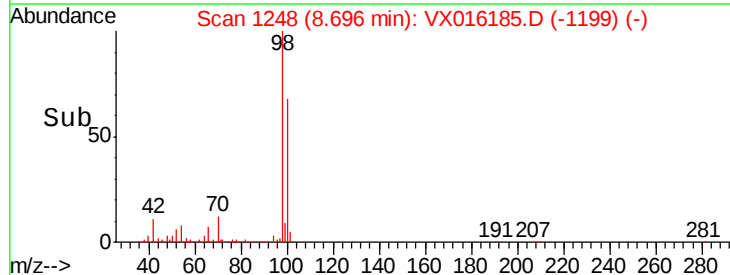
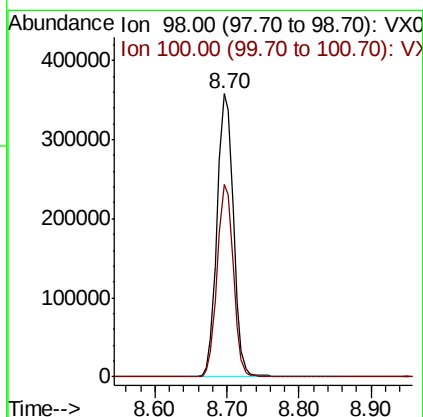
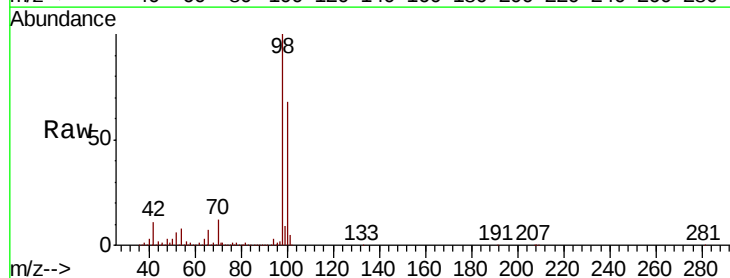
Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW738-200512

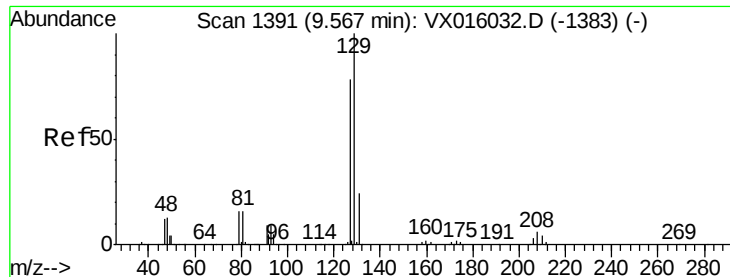
Tot Ion: 88 Resp: 524
 Ion Ratio Lower Upper
 88 100
 43 41.4 25.3 37.9#
 58 57.1 55.9 83.9



#50
 Toluene-d8
 Concen: 51.119 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VX016185.D
 Acq: 13 May 2020 17:22

Tgt Ion: 98 Resp: 564159
 Ion Ratio Lower Upper
 98 100
 100 67.2 53.7 80.5





#60

Dibromochloromethane

Concen: 10.643 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

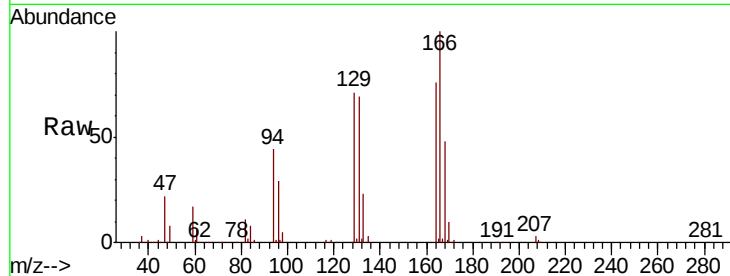
SS052MW738-200512

Tot Ion:129 Resp: 37431

Ion Ratio Lower Upper

129 100

127 0.1 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

25000

20000

15000

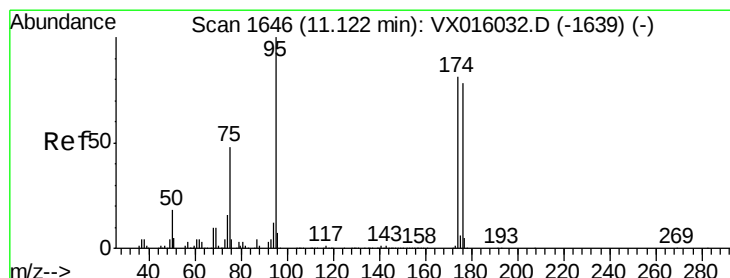
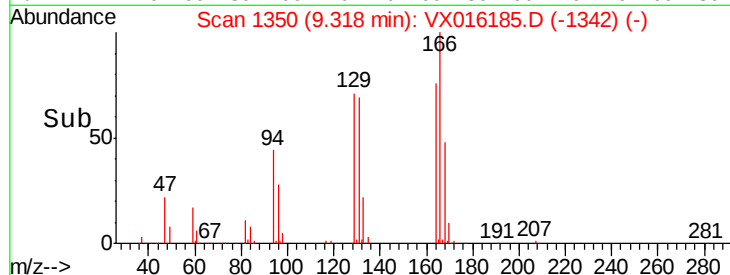
10000

5000

0

9.25 9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 53.691 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

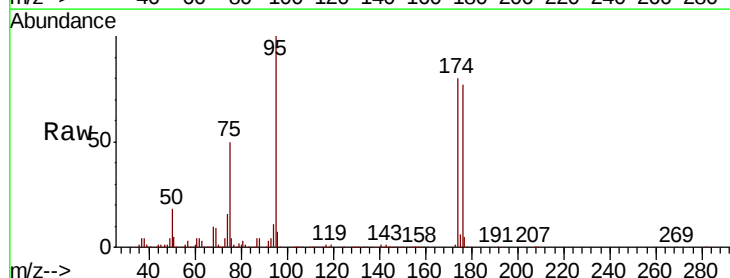
Tgt Ion: 95 Resp: 225377

Ion Ratio Lower Upper

95 100

174 82.2 0.0 159.4

176 79.2 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

250000

200000

150000

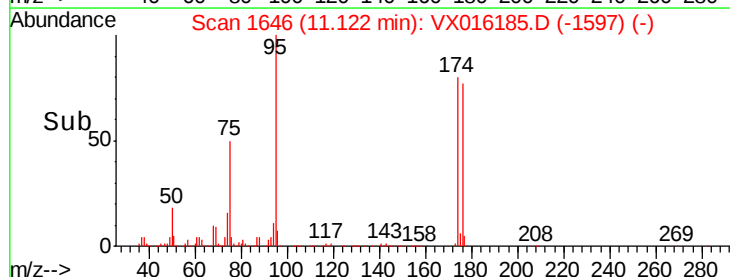
100000

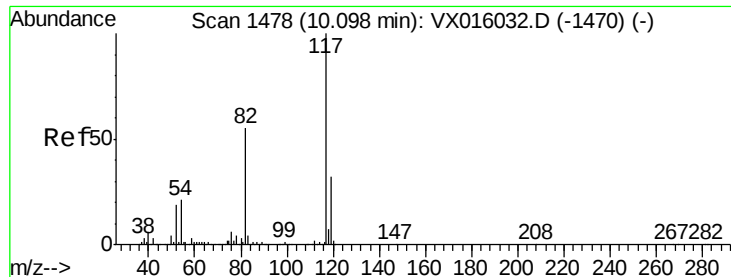
50000

0

11.10 11.12 11.20

Time-->

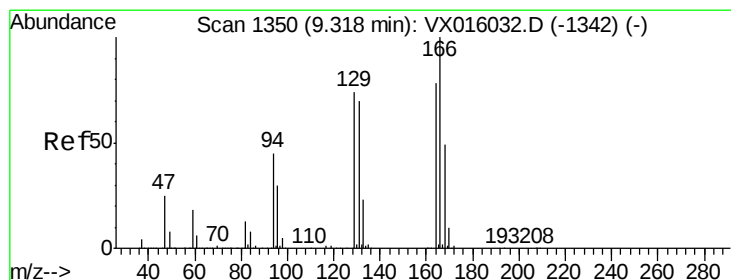
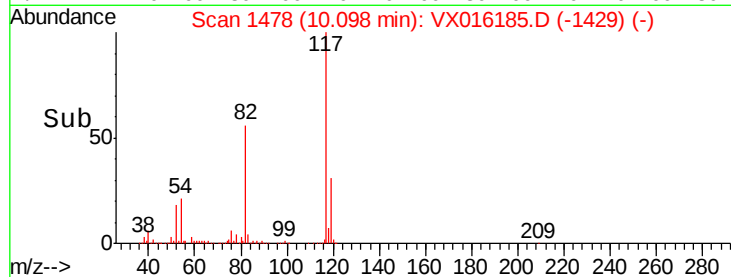
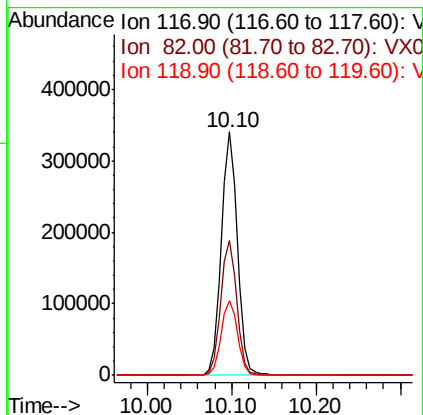
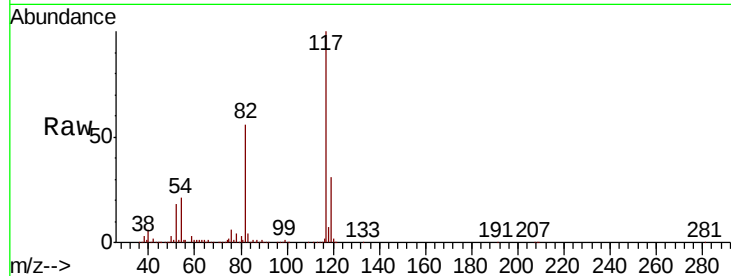




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016185.D
Acq: 13 May 2020 17:22

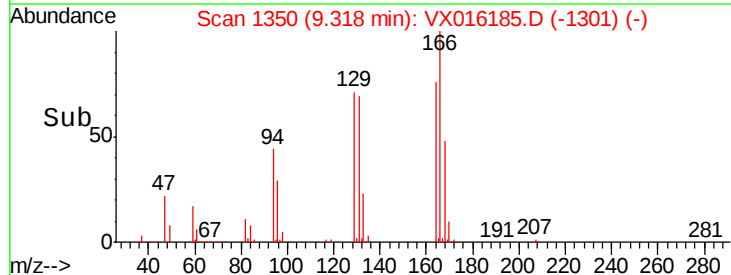
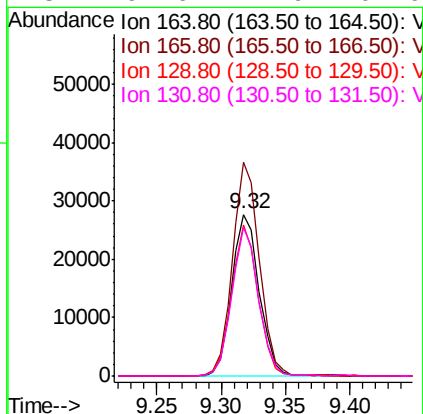
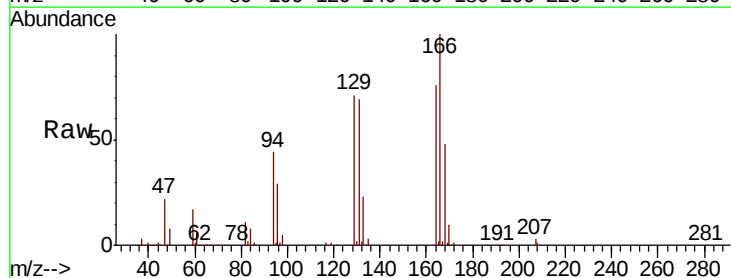
Instrument :
MSVOA_X
ClientSampleId :
SS052MW738-200512

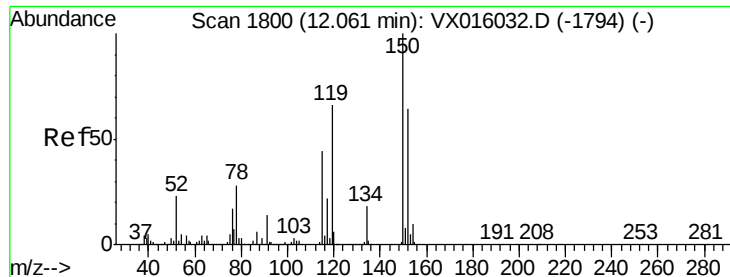
Tot Ion:117 Resp: 453853
Ion Ratio Lower Upper
117 100
82 55.6 44.4 66.6
119 30.7 25.5 38.3



#64
Tetrachloroethene
Concen: 7.409 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VX016185.D
Acq: 13 May 2020 17:22

Tgt Ion:164 Resp: 41282
Ion Ratio Lower Upper
164 100
166 132.1 102.9 154.3
129 93.7 76.1 114.1
131 91.6 71.9 107.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

SS052MW738-200512

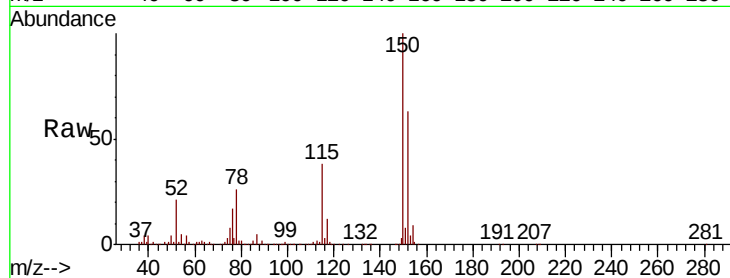
Tot Ion:152 Resp: 231088

Ion Ratio Lower Upper

152 100

115 58.5 41.3 124.1

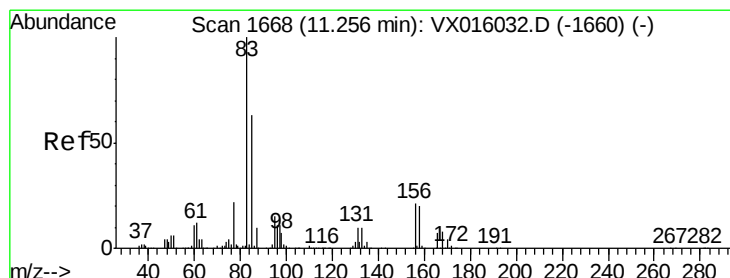
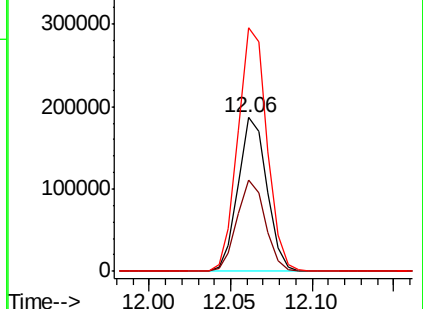
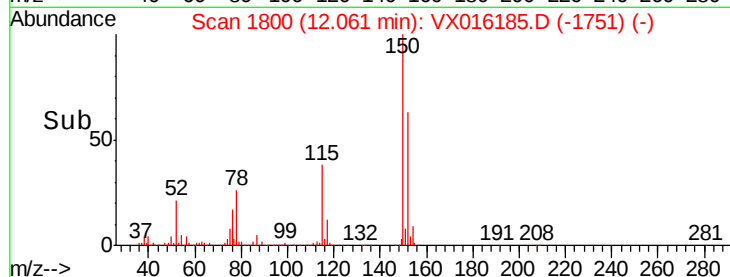
150 159.7 0.0 352.2



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: 2.123 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.14 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

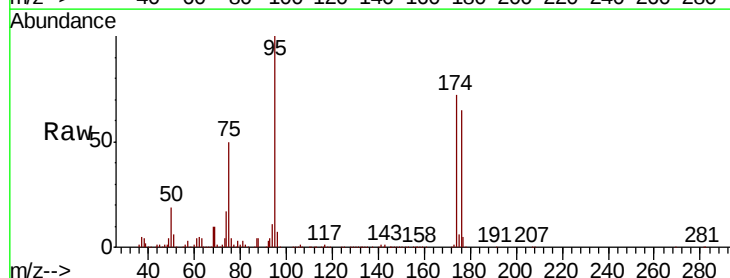
Tgt Ion: 83 Resp: 232

Ion Ratio Lower Upper

83 100

131 146.6 5.1 15.4#

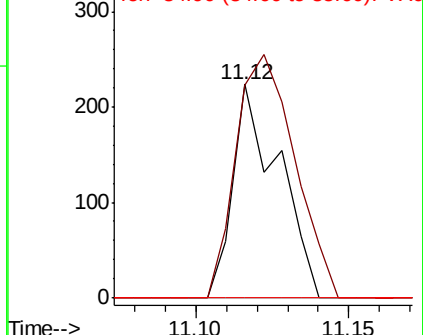
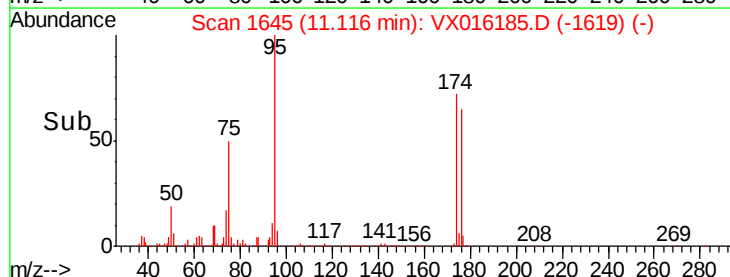
85 0.0 32.0 96.0#

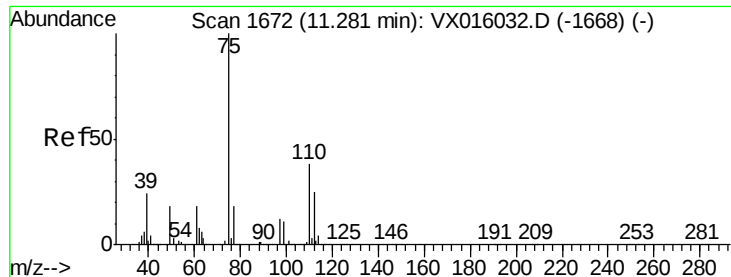


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.203 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

Instrument :

MSVOA_X

ClientSampleId :

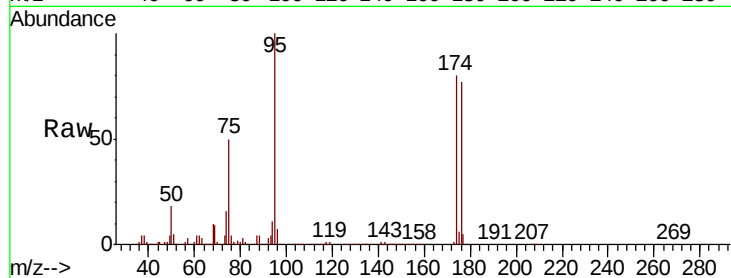
SS052MW738-200512

Tot Ion: 75 Resp: 111187

Ion Ratio Lower Upper

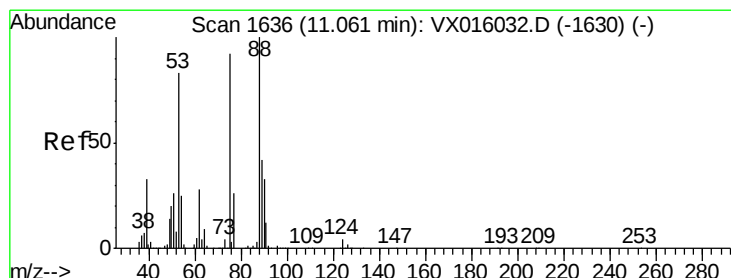
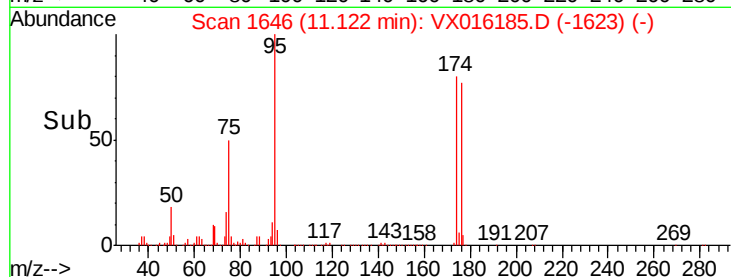
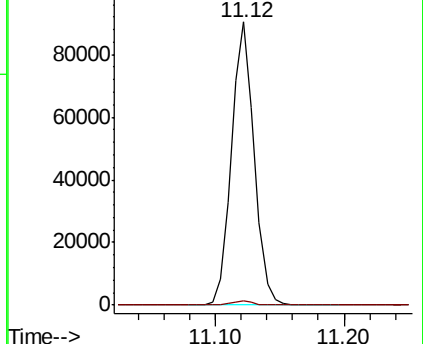
75 100

77 1.4 21.2 63.6#



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: 50.528 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016185.D

Acq: 13 May 2020 17:22

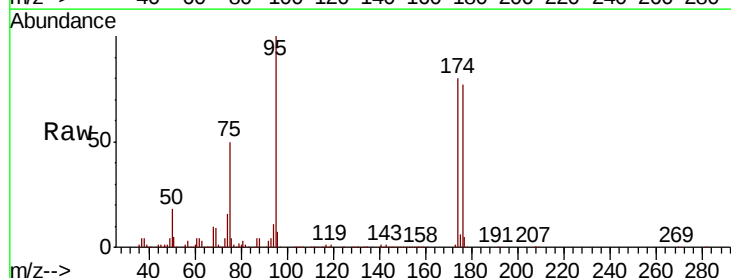
Tgt Ion: 75 Resp: 111187

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

