

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016317.D
 Acq On : 18 May 2020 22:36
 Operator : JC/SP
 Sample : L2672-14 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-DUP-0559-200514

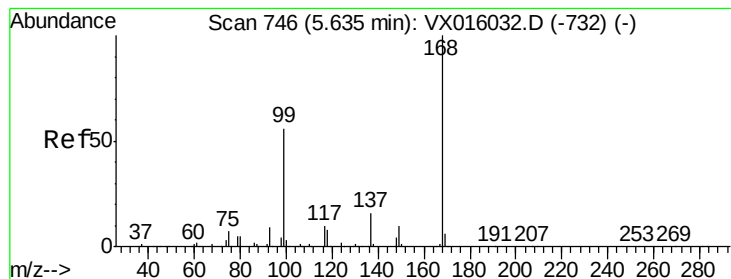
Quant Time: May 19 00:56:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	259486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	425747	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	421782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	216033	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	151825	44.46	ug/l	0.00
Spiked Amount			Recovery	=	88.92%	
35) Dibromofluoromethane	5.47	113	123499	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	
50) Toluene-d8	8.70	98	522377	50.26	ug/l	0.00
Spiked Amount			Recovery	=	100.52%	
62) 4-Bromofluorobenzene	11.12	95	211698	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	2087	0.613	ug/l	93
5) Bromomethane	1.64	94	348	0.203	ug/l	83
11) Tert butyl alcohol	3.00	59	284	0.329	ug/l #	72
13) Acrolein	2.27	56	650	1.203	ug/l #	60
16) Acetone	2.42	43	889	0.584	ug/l #	64
17) Carbon Disulfide	2.56	76	1514	Below Cal		97
25) 2-Butanone	4.64	43	574	0.234	ug/l #	48
26) 2,2-Dichloropropane	4.64	77	1087	0.228	ug/l #	53
27) cis-1,2-Dichloroethene	4.57	96	6879	2.093	ug/l	87
31) Cyclohexane	5.64	56	4963	1.046	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18995	4.532	ug/l #	49
38) Carbon Tetrachloride	5.64	117	24726	5.805	ug/l #	13
44) Trichloroethene	7.19	130	1055	0.242	ug/l	70
60) Dibromochloromethane	9.32	129	1032	0.312	ug/l #	11
64) Tetrachloroethene	9.32	164	1068	0.206	ug/l	89
65) Chlorobenzene	10.12	112	12326	1.396	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.12	83	143	2.098	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	103347	21.081	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	103347	50.239	ug/l #	13
91) 1,2-Dichlorobenzene	12.38	146	2292	0.327	ug/l	98
94) Hexachlorobutadiene	13.77	225	339	0.674	ug/l	85

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

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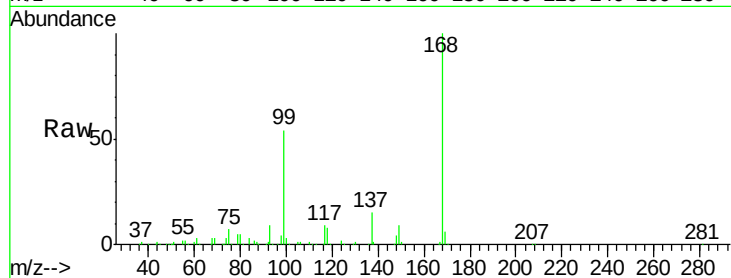
Z2-DUP-0559-200514

Tot Ion:168 Resp: 259486

Ion Ratio Lower Upper

168 100

99 53.8 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

100000

80000

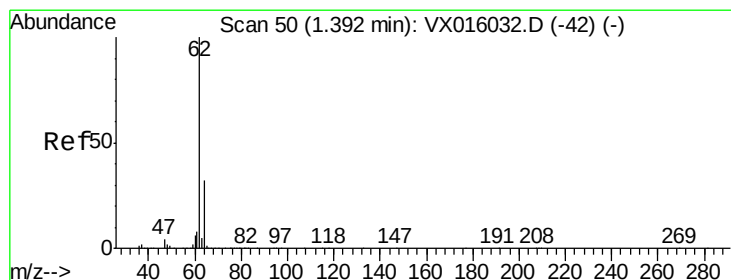
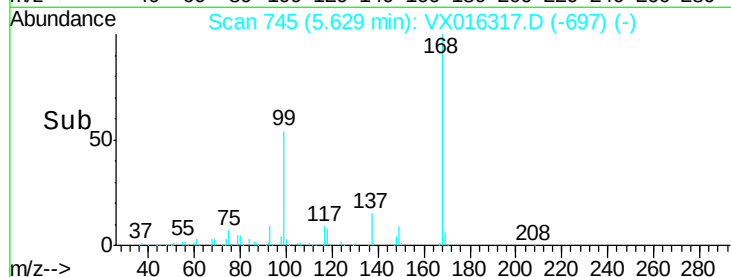
60000

40000

20000

0

Time-->



#4

Vinyl Chloride

Concen: 0.613 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016317.D

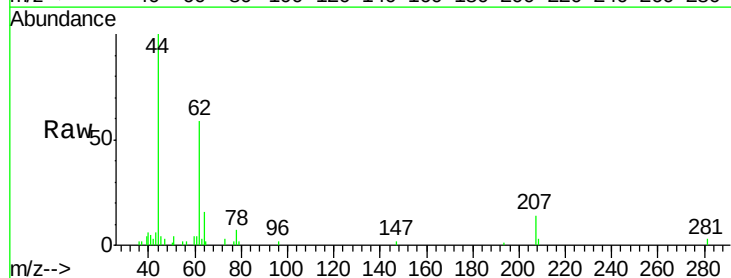
Acq: 18 May 2020 22:36

Tgt Ion: 62 Resp: 2087

Ion Ratio Lower Upper

62 100

64 27.9 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

2500

2000

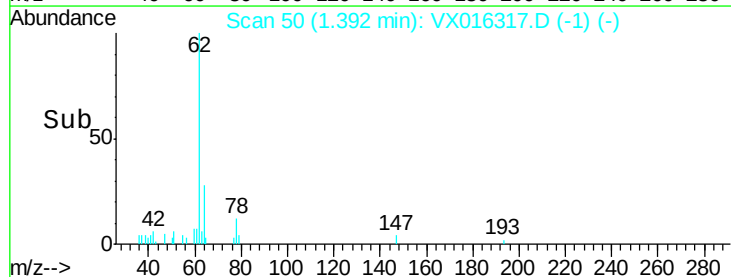
1500

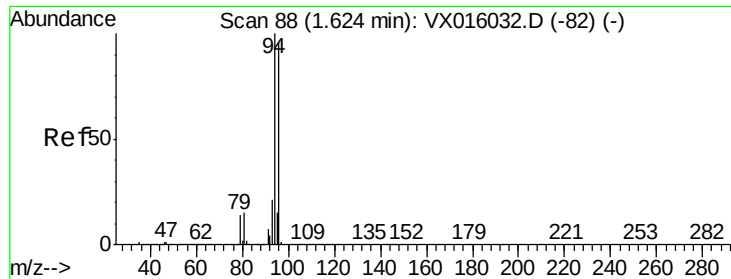
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

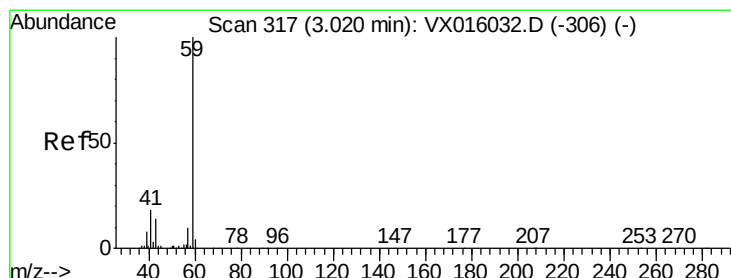
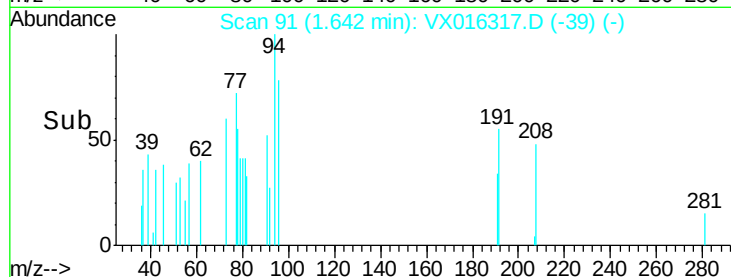
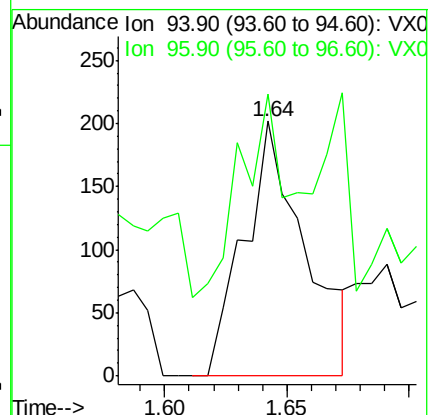
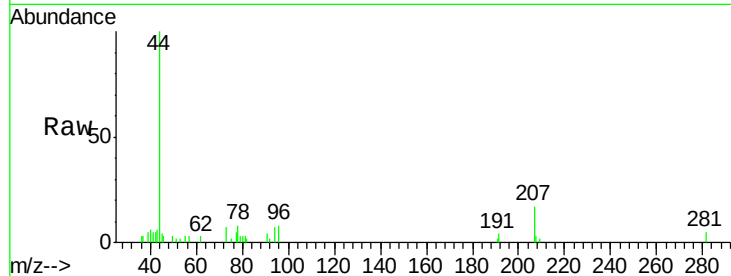
Z2-DUP-0559-200514

Tot Ion: 94 Resp: 348

Ion Ratio Lower Upper

94 100

96 79.7 76.9 115.3



#11

Tert butyl alcohol

Concen: 0.329 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016317.D

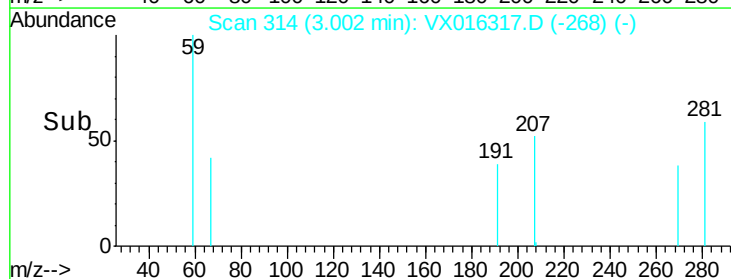
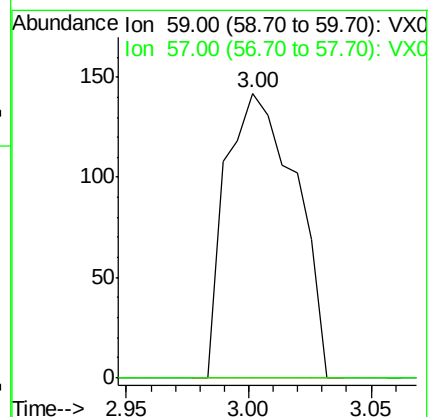
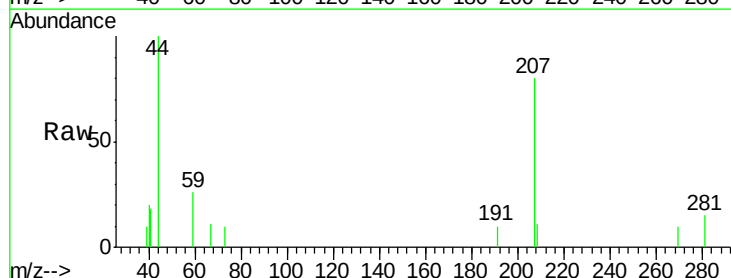
Acq: 18 May 2020 22:36

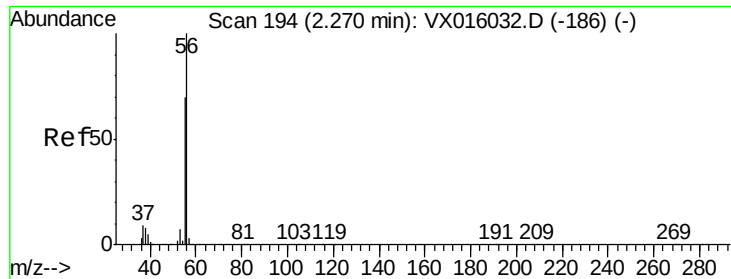
Tgt Ion: 59 Resp: 284

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

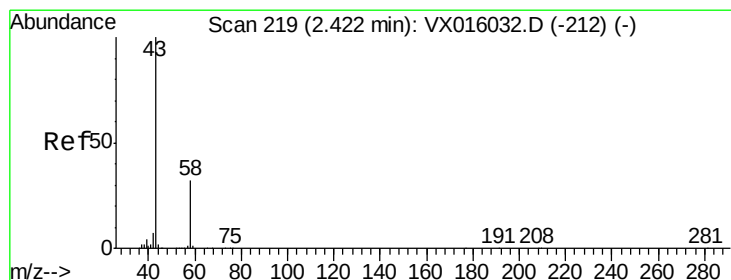
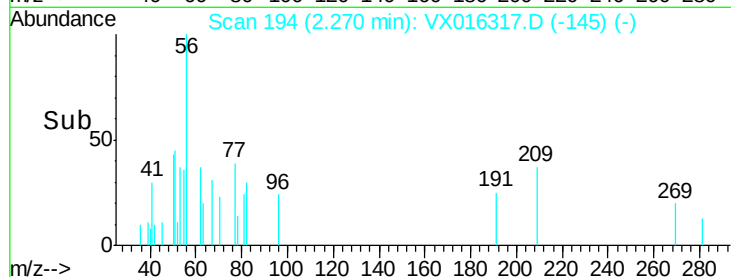
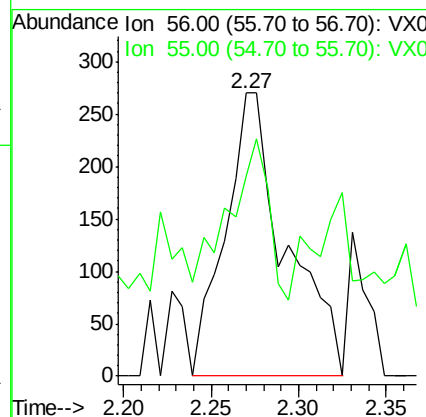
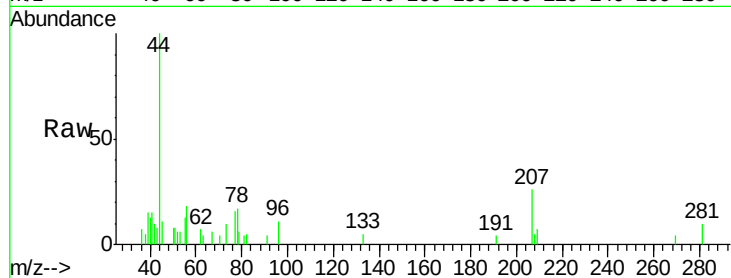




#13
Acrolein
Concen: 1.203 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX016317.D
Acq: 18 May 2020 22:36

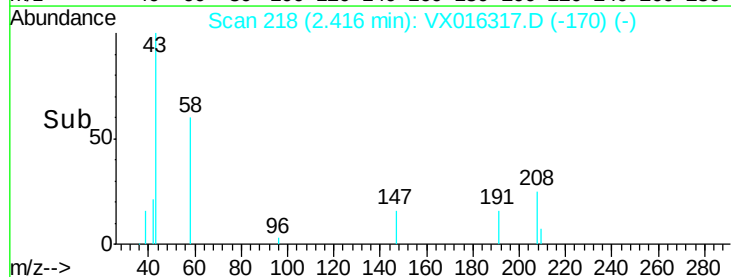
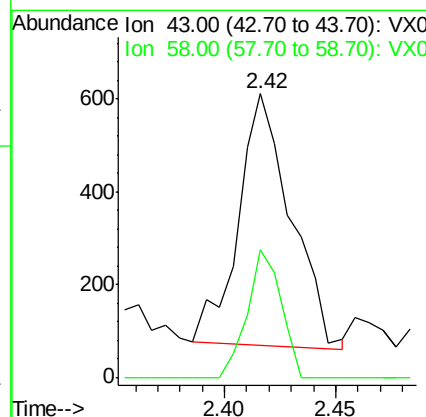
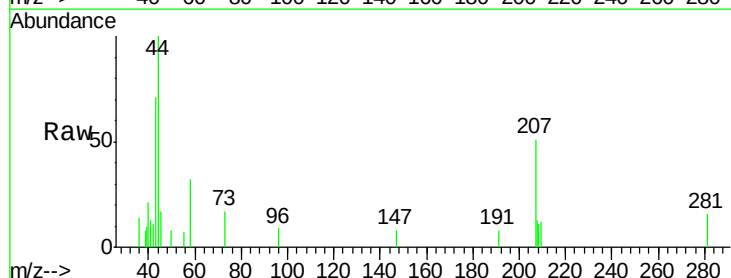
Instrument :
MSVOA_X
ClientSampleId :
Z2-DUP-0559-200514

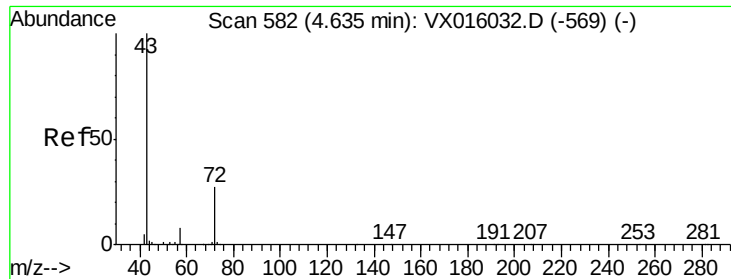
Tot Ion: 56 Resp: 650
Ion Ratio Lower Upper
56 100
55 37.2 56.5 84.7#



#16
Acetone
Concen: 0.584 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX016317.D
Acq: 18 May 2020 22:36

Tgt Ion: 43 Resp: 889
Ion Ratio Lower Upper
43 100
58 51.5 25.4 38.0#





#25

2-Butanone

Concen: 0.234 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

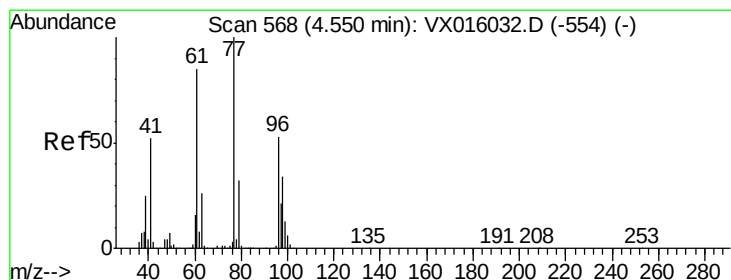
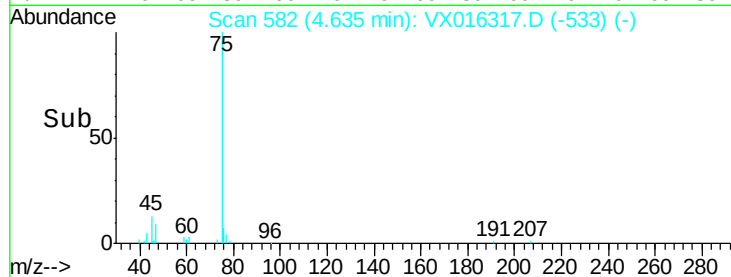
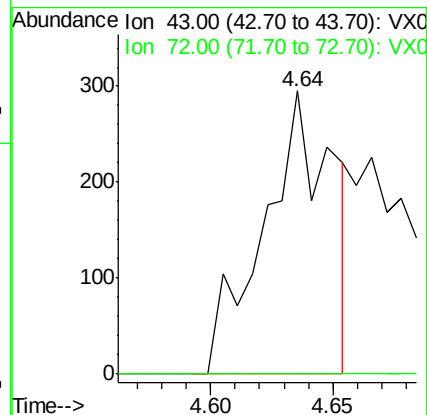
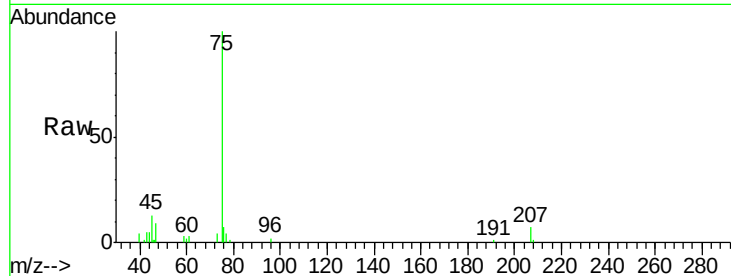
Z2-DUP-0559-200514

Tot Ion: 43 Resp: 574

Ion Ratio Lower Upper

43 100

72 0.0 21.8 32.8#



#26

2,2-Dichloropropane

Concen: 0.228 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.09 min

Lab File: VX016317.D

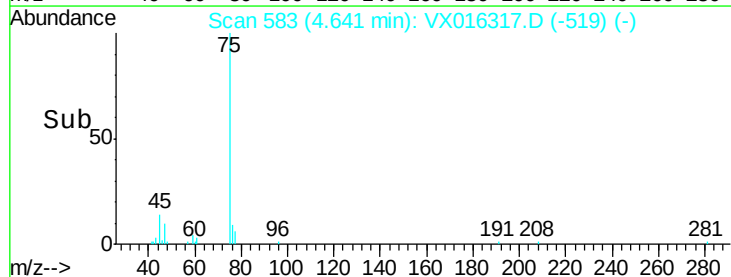
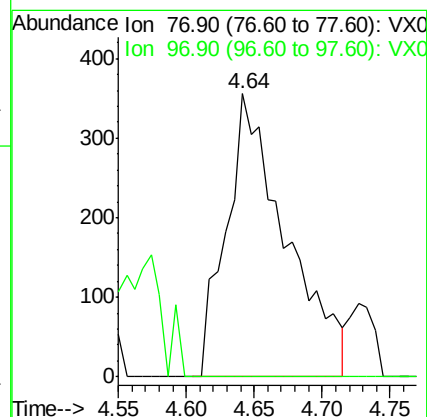
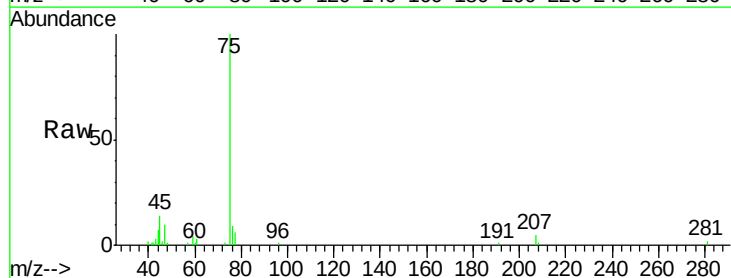
Acq: 18 May 2020 22:36

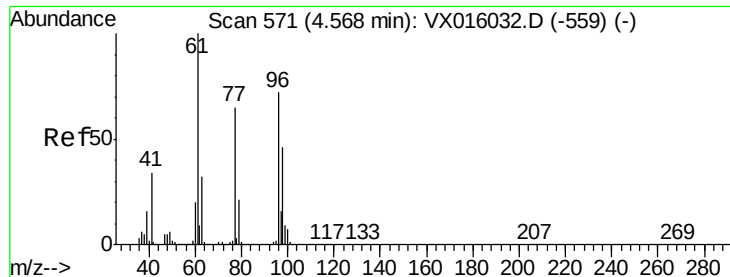
Tgt Ion: 77 Resp: 1087

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.6#





#27

cis-1,2-Dichloroethene

Concen: 2.093 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

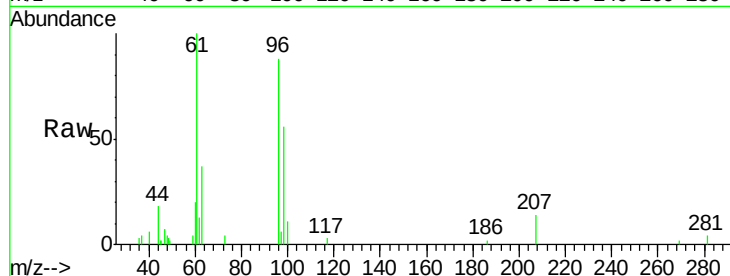
Tot Ion: 96 Resp: 6879

Ion Ratio Lower Upper

96 100

61 125.1 0.0 296.2

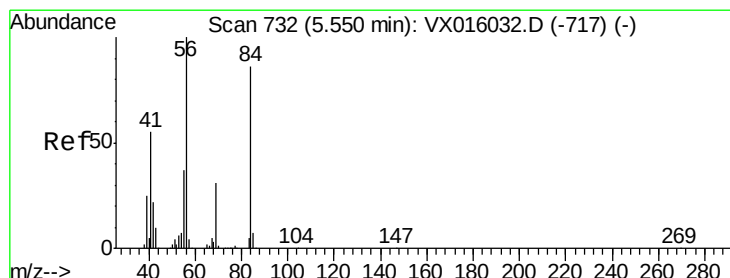
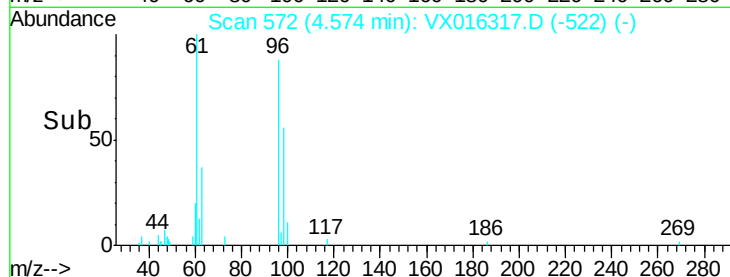
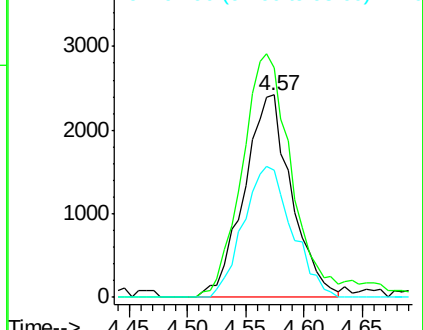
98 66.2 0.0 129.4



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



#31

Cyclohexane

Concen: 1.046 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

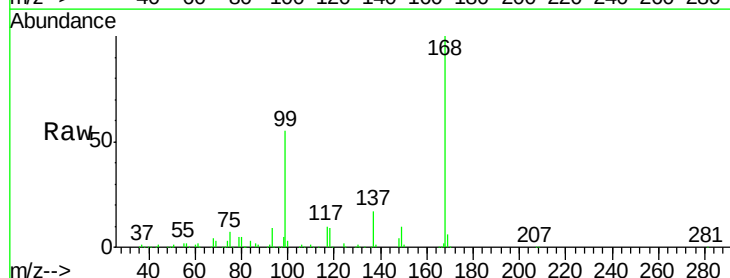
Tgt Ion: 56 Resp: 4963

Ion Ratio Lower Upper

56 100

69 183.3 25.0 37.6#

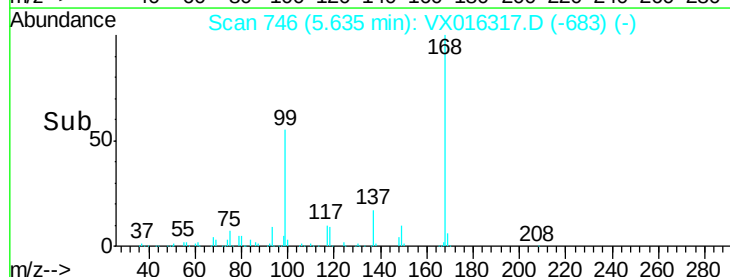
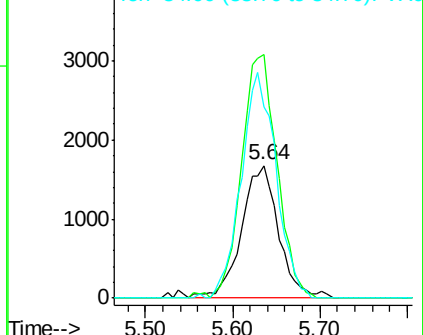
84 144.1 69.0 103.6#

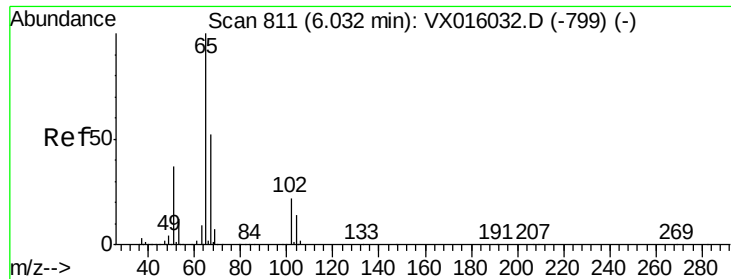


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

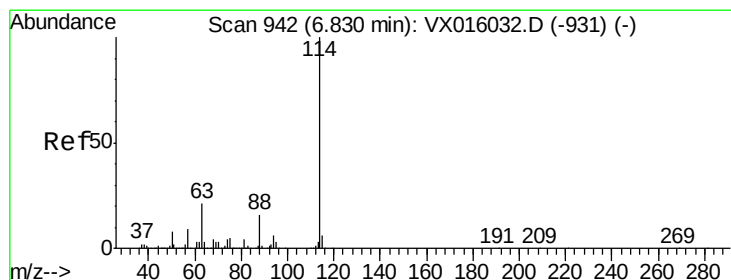
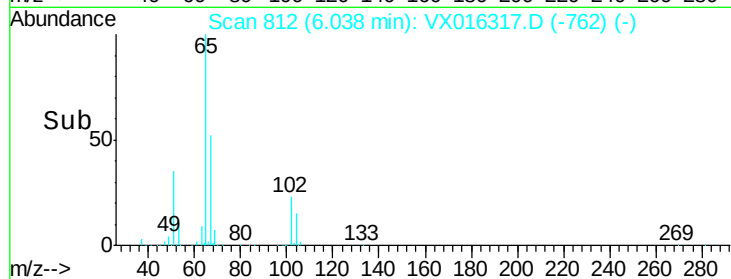
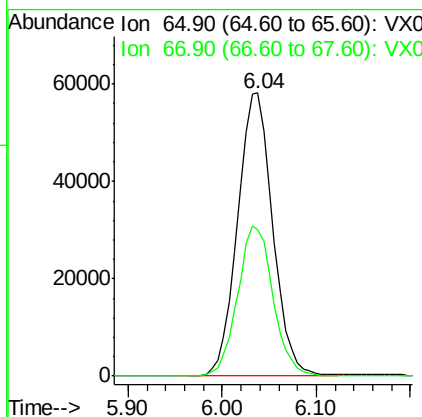
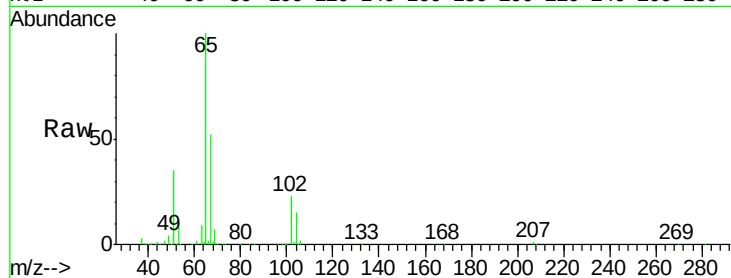




#33
 1,2-Dichloroethane-d4
 Concen: 44.464 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016317.D
 Acq: 18 May 2020 22:36

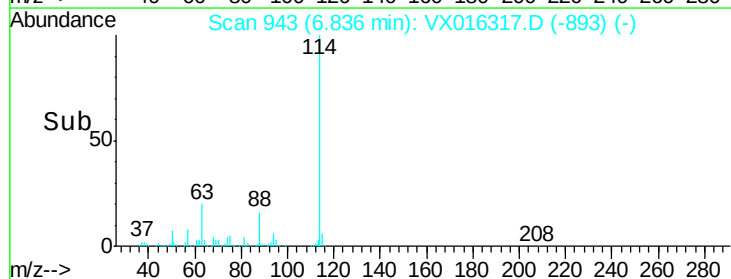
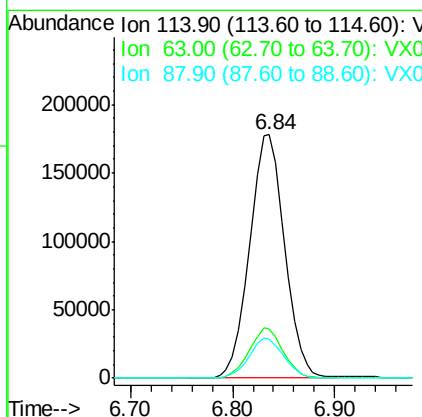
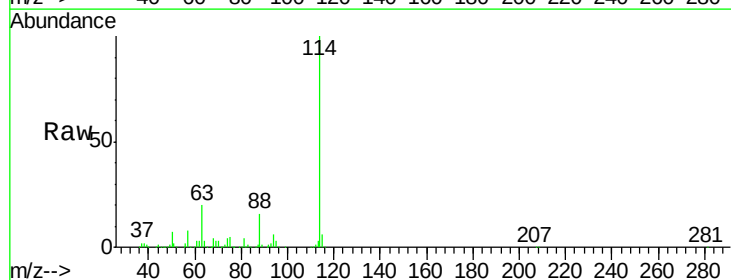
Instrument :
 MSVOA_X
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 Z2-DUP-0559-200514

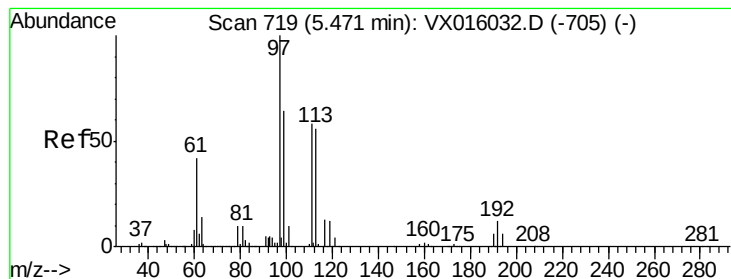
Tot Ion: 65 Resp: 151825
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016317.D
 Acq: 18 May 2020 22:36

Tgt Ion: 114 Resp: 425747
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 42.8
 88 16.1 0.0 31.4





#35

Dibromofluoromethane

Concen: 45.786 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

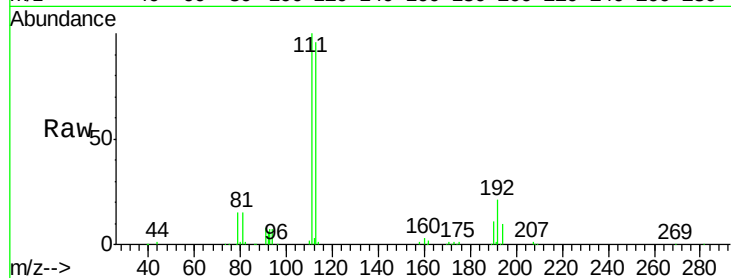
Tot Ion:113 Resp: 123499

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

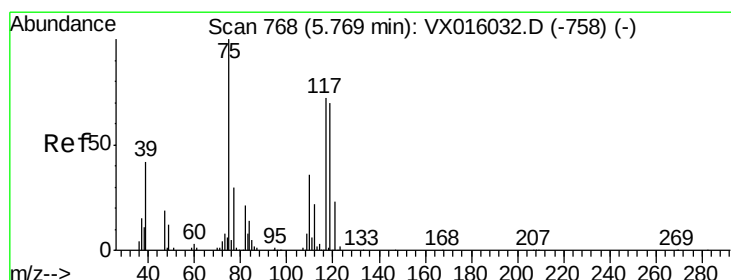
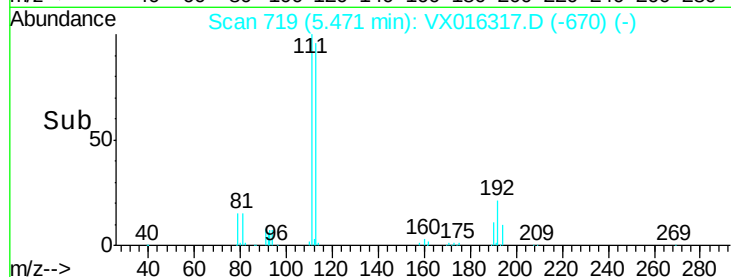
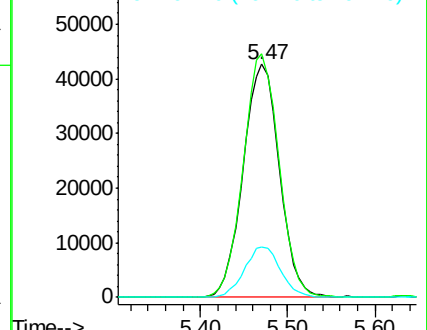
192 21.5 17.0 25.4



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: 4.532 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

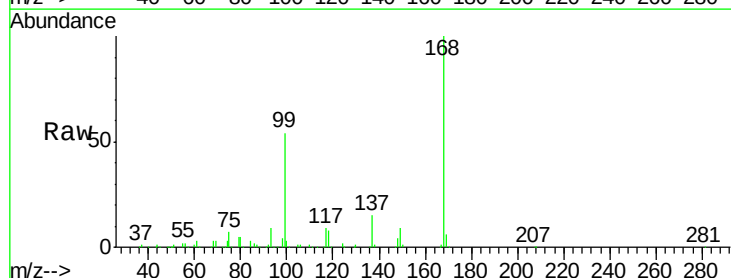
Tgt Ion: 75 Resp: 18995

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

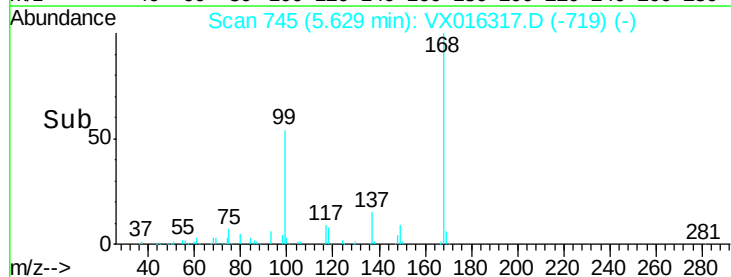
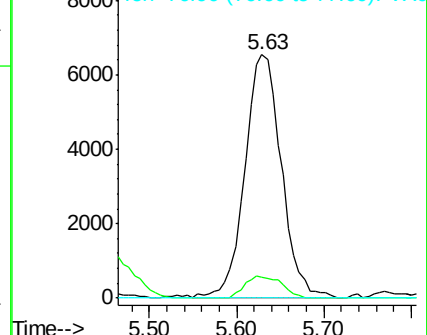
77 0.0 25.0 37.6#

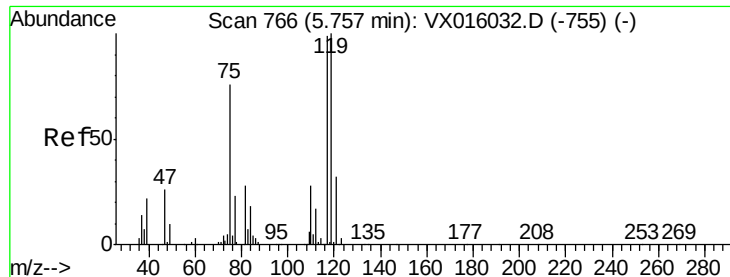


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.805 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

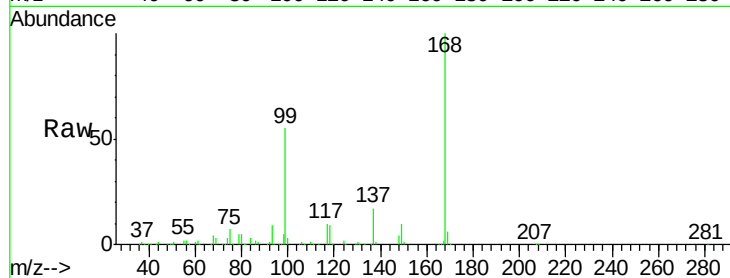
Tot Ion:117 Resp: 24726

Ion Ratio Lower Upper

117 100

119 4.2 80.3 120.5#

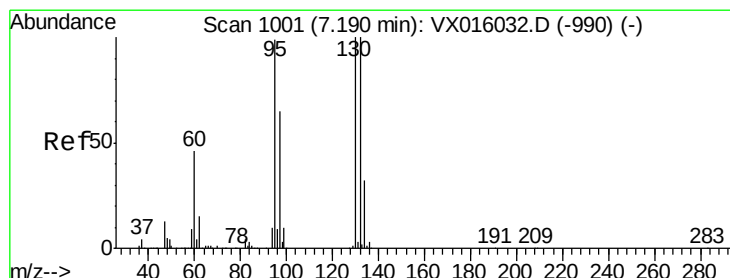
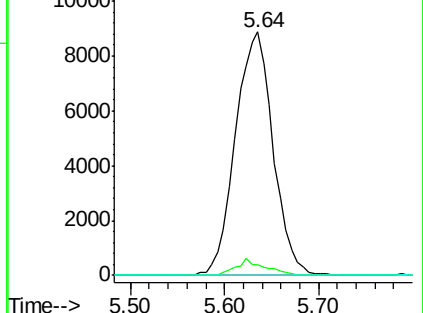
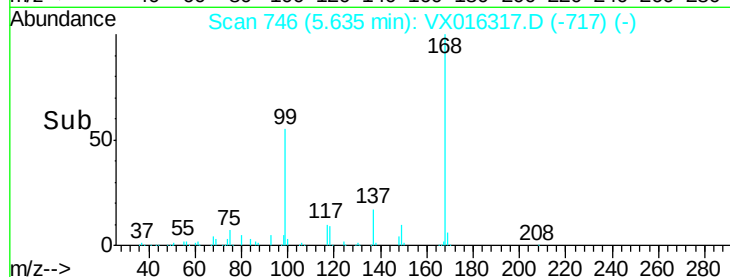
121 0.0 25.7 38.5#



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



#44

Trichloroethene

Concen: 0.242 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016317.D

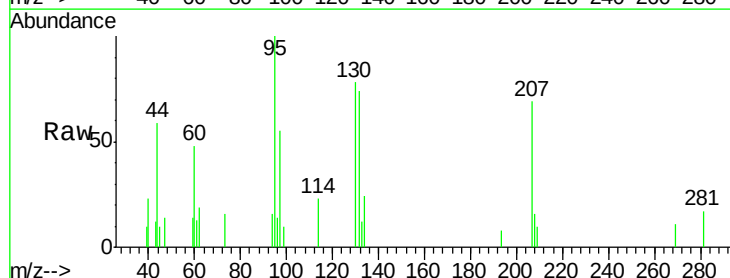
Acq: 18 May 2020 22:36

Tgt Ion:130 Resp: 1055

Ion Ratio Lower Upper

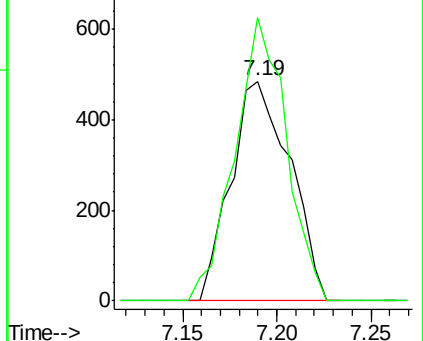
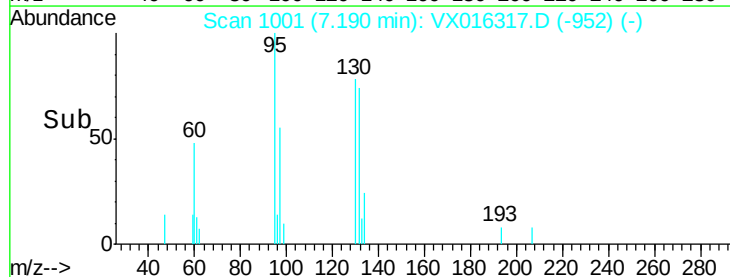
130 100

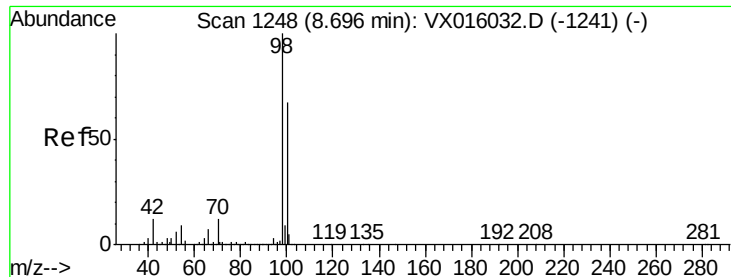
95 128.9 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 50.263 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

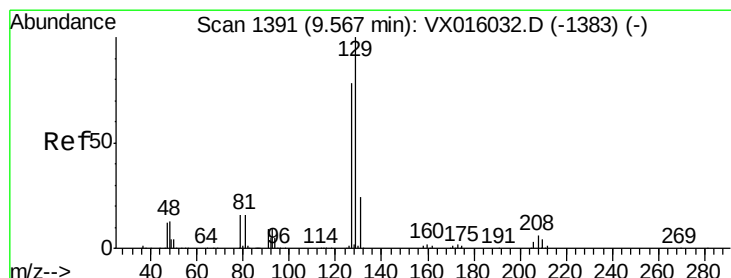
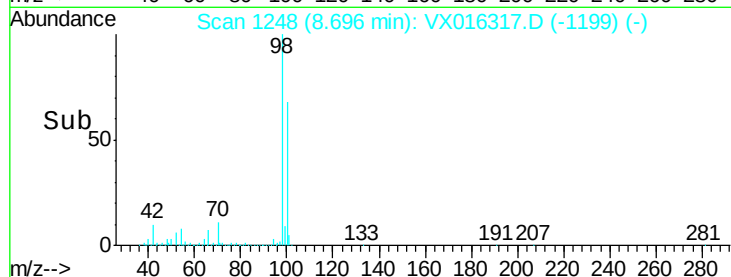
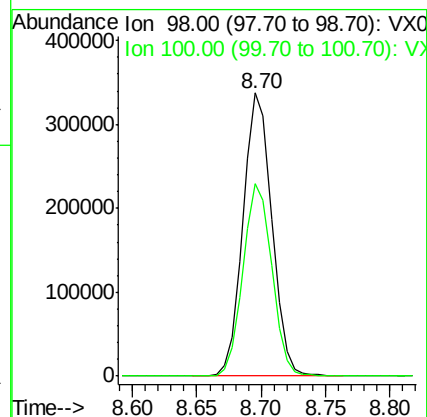
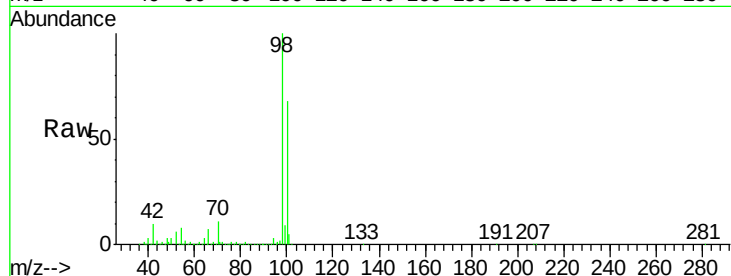
Z2-DUP-0559-200514

Tot Ion: 98 Resp: 522377

Ion Ratio Lower Upper

98 100

100 67.9 53.7 80.5



#60

Dibromochloromethane

Concen: 0.312 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016317.D

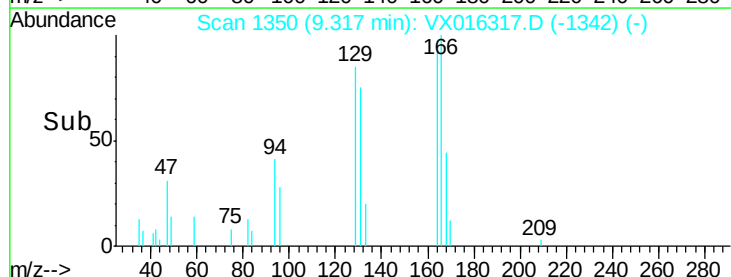
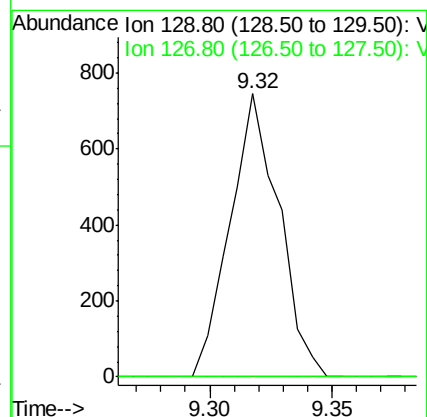
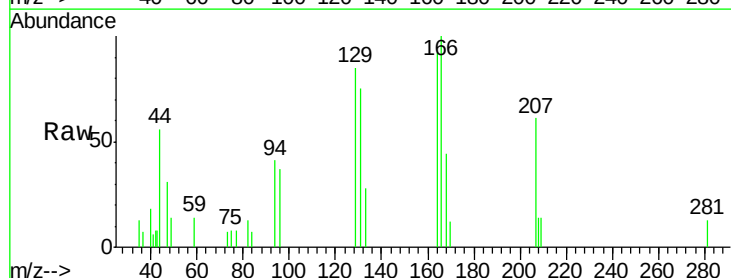
Acq: 18 May 2020 22:36

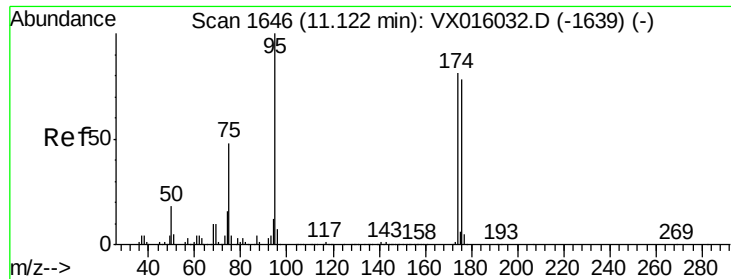
Tgt Ion: 129 Resp: 1032

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 53.555 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

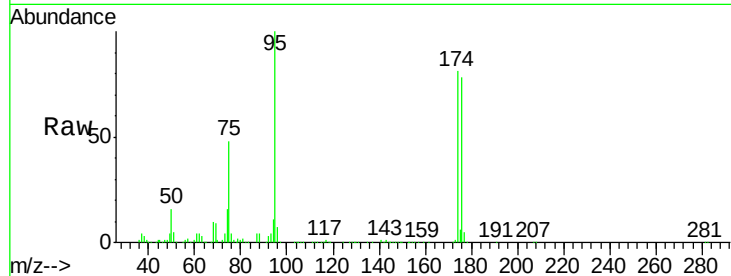
Tot Ion: 95 Resp: 211698

Ion Ratio Lower Upper

95 100

174 82.1 0.0 159.4

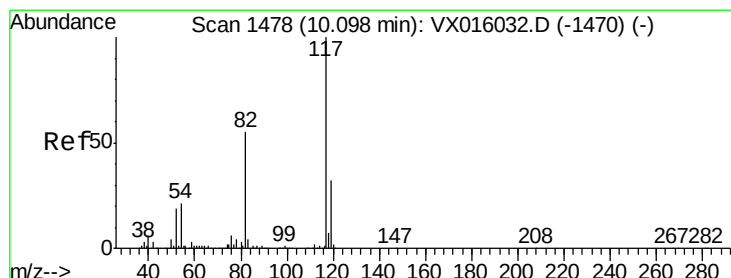
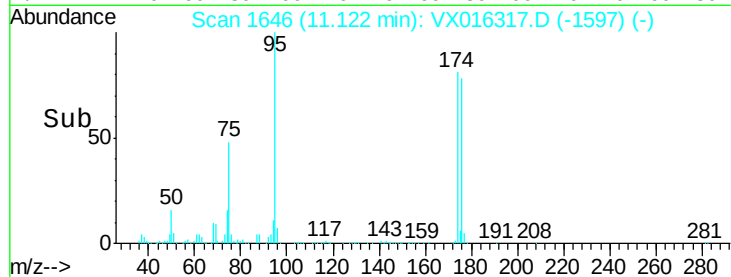
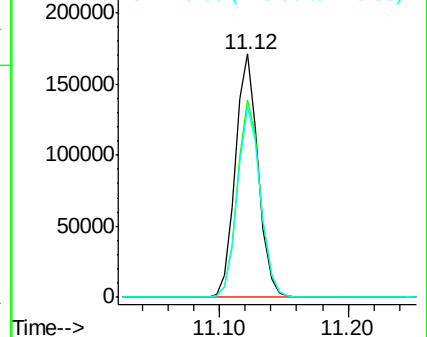
176 79.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

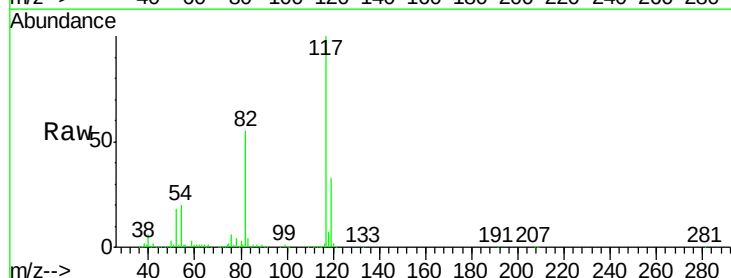
Tgt Ion: 117 Resp: 421782

Ion Ratio Lower Upper

117 100

82 54.8 44.4 66.6

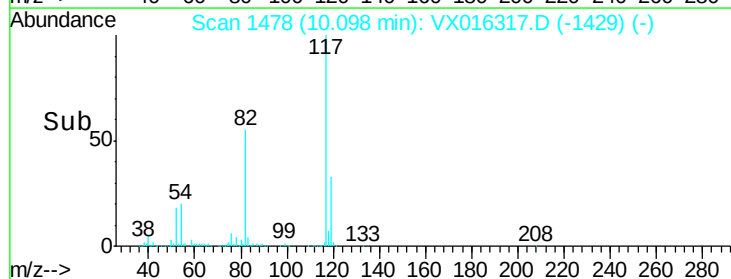
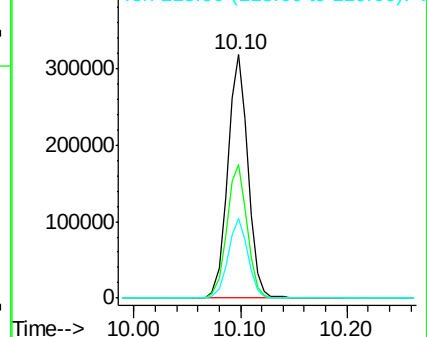
119 32.6 25.5 38.3

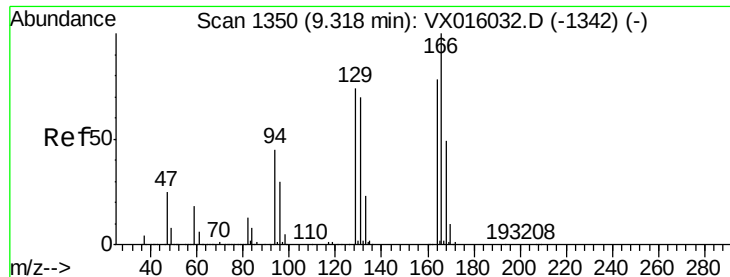


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 0.206 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

Tot Ion:164 Resp: 1068

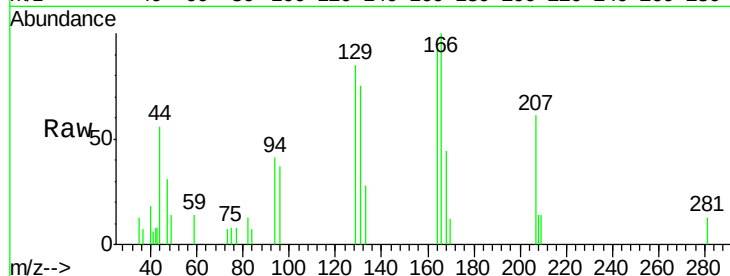
Ion Ratio Lower Upper

164 100

166 108.2 102.9 154.3

129 91.5 76.1 114.1

131 81.4 71.9 107.9

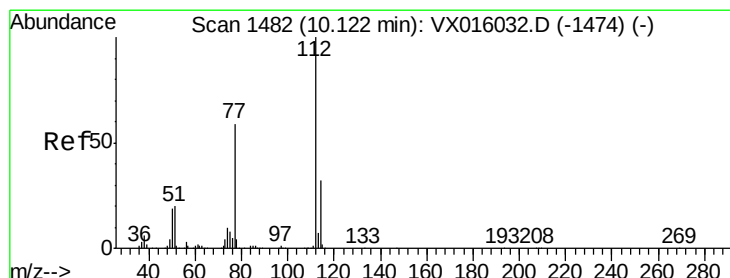
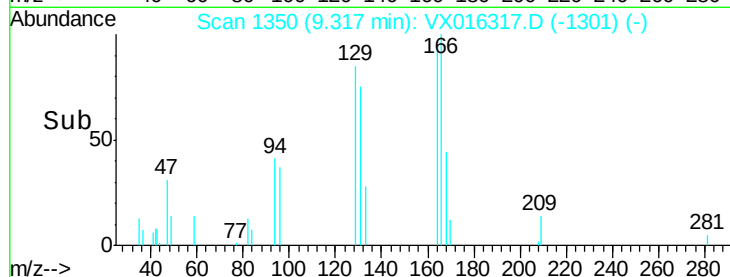
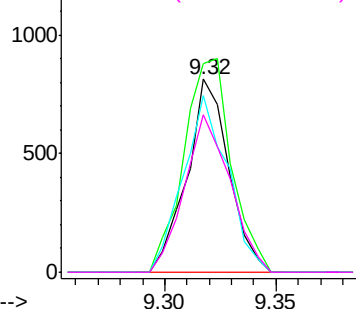


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 1.396 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016317.D

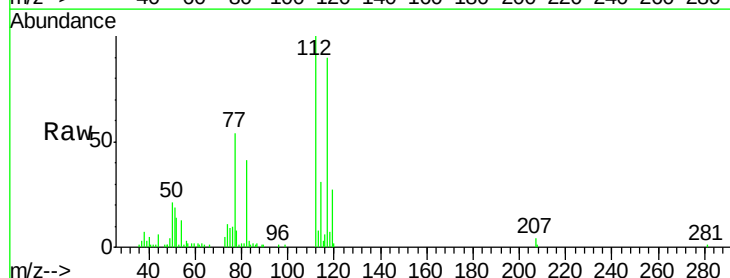
Acq: 18 May 2020 22:36

Tgt Ion:112 Resp: 12326

Ion Ratio Lower Upper

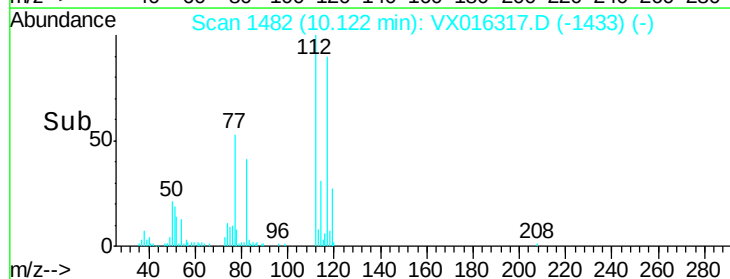
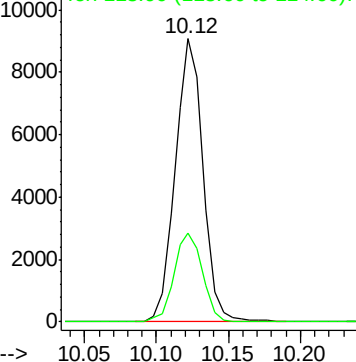
112 100

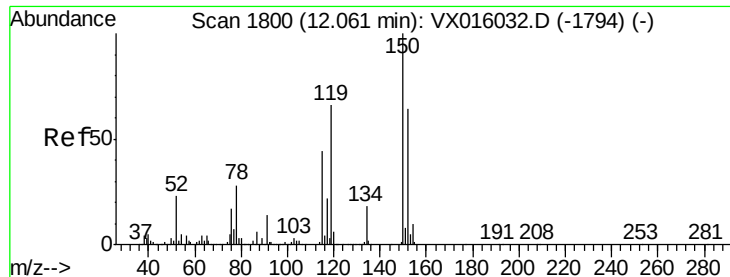
114 31.4 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

Z2-DUP-0559-200514

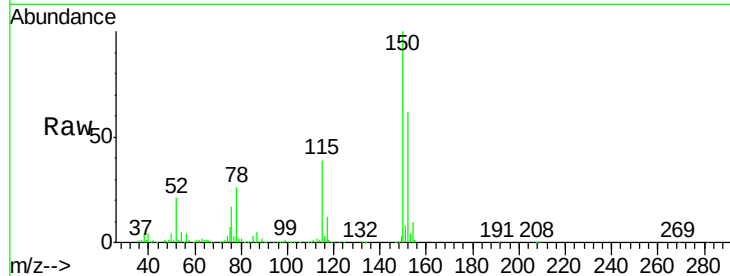
Tot Ion:152 Resp: 216033

Ion Ratio Lower Upper

152 100

115 60.1 41.3 124.1

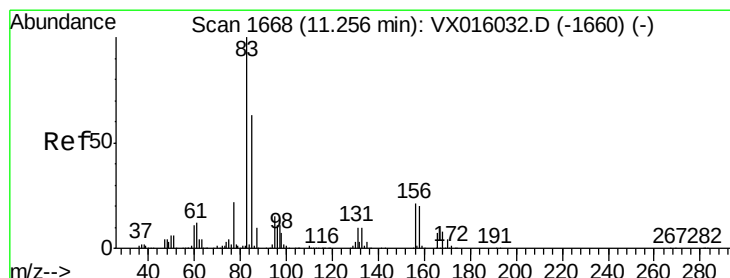
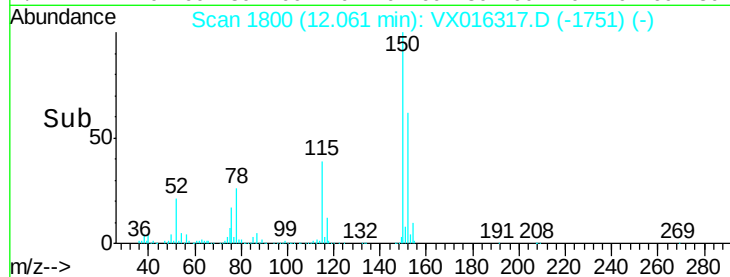
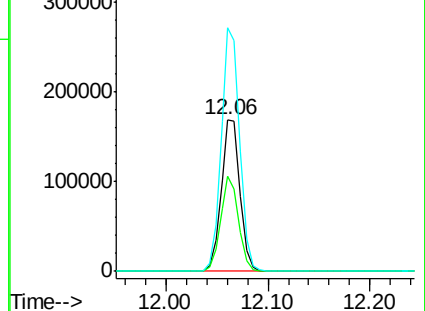
150 158.3 0.0 352.2



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: 2.098 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

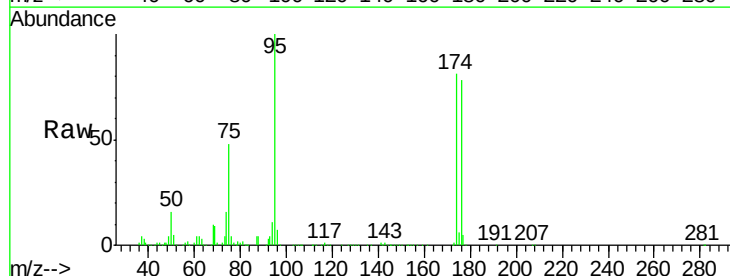
Tgt Ion: 83 Resp: 143

Ion Ratio Lower Upper

83 100

131 203.5 5.1 15.4#

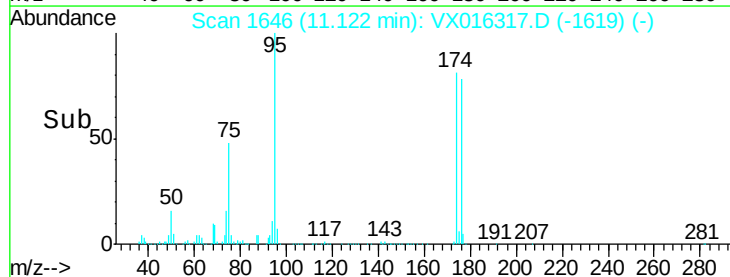
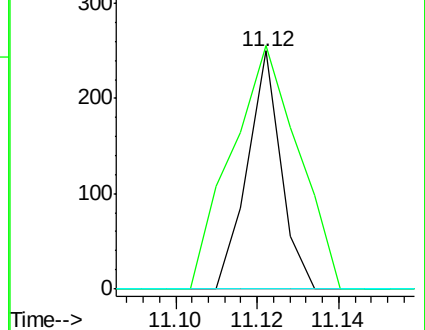
85 0.0 32.0 96.0#

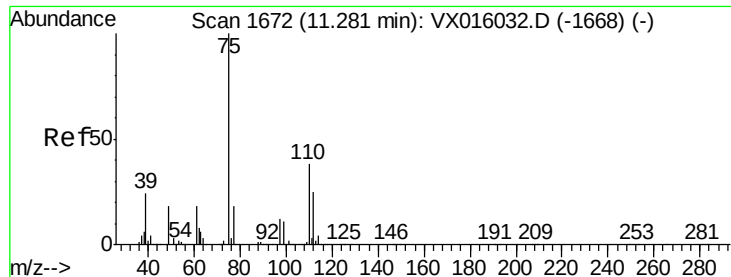


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.081 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

Instrument :

MSVOA_X

ClientSampleId :

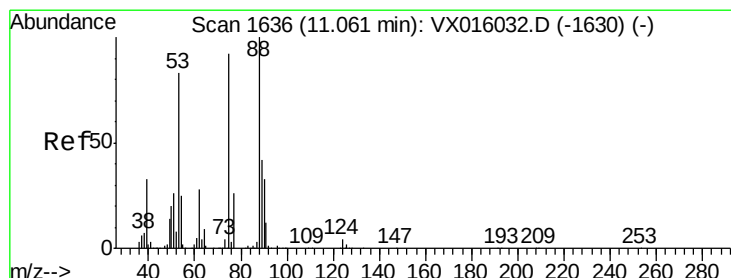
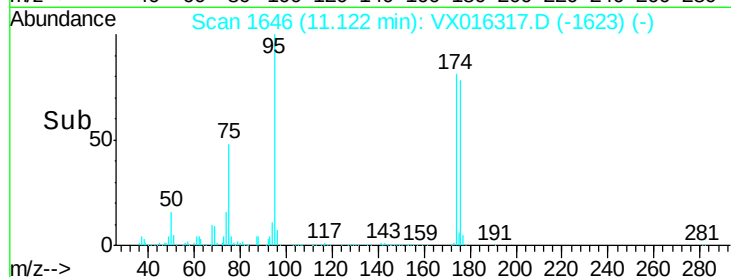
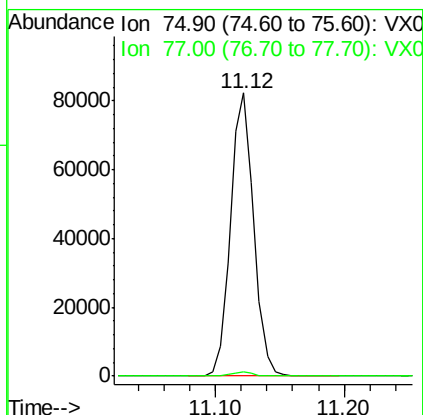
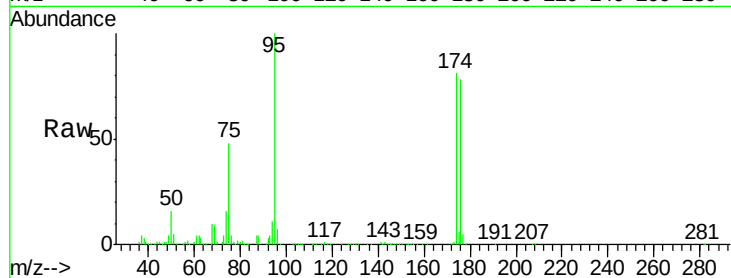
Z2-DUP-0559-200514

Tot Ion: 75 Resp: 103347

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 50.239 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016317.D

Acq: 18 May 2020 22:36

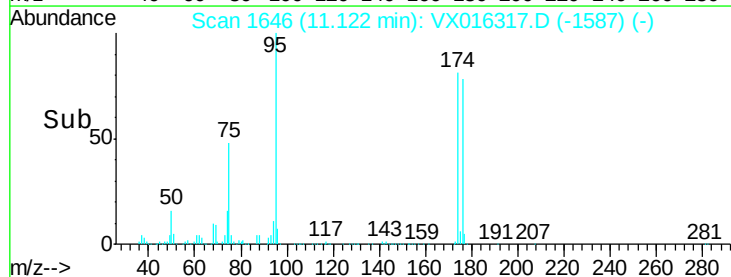
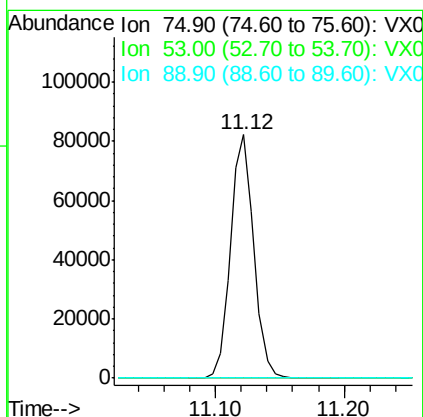
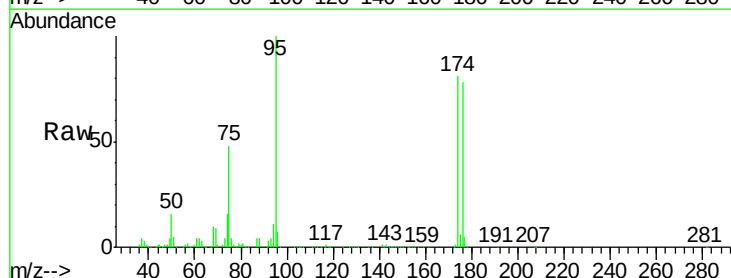
Tgt Ion: 75 Resp: 103347

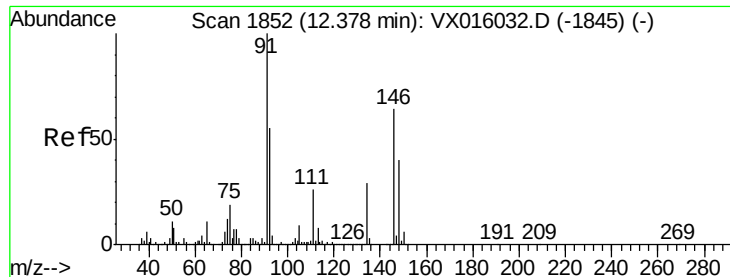
Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

89 0.0 36.7 55.1#

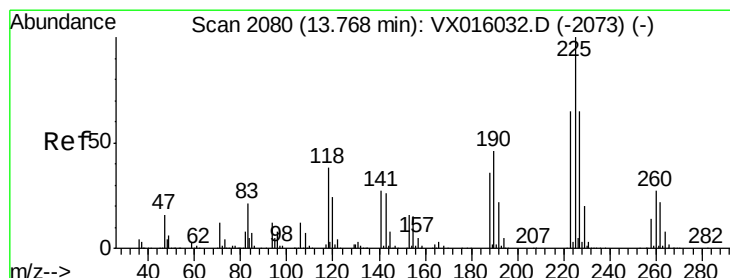
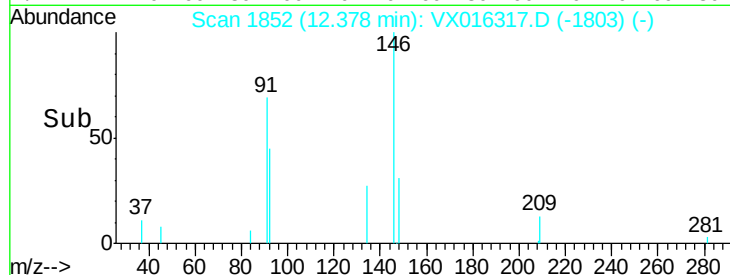
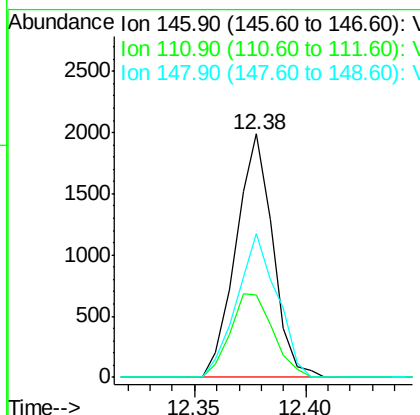
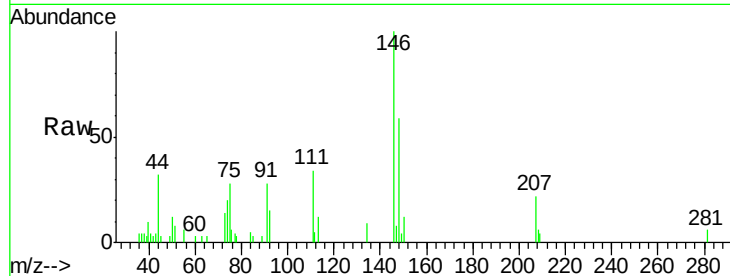




#91
 1,2-Dichlorobenzene
 Concen: 0.327 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. -0.00 min
 Lab File: VX016317.D
 Acq: 18 May 2020 22:36

Instrument :
 MSVOA_X
 ClientSampleId :
 Z2-DUP-0559-200514

Tot Ion:146 Resp: 2292
 Ion Ratio Lower Upper
 146 100
 111 39.8 21.1 63.1
 148 64.8 32.4 97.0



#94
 Hexachlorobutadiene
 Concen: 0.674 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX016317.D
 Acq: 18 May 2020 22:36

Tgt Ion:225 Resp: 339
 Ion Ratio Lower Upper
 225 100
 223 46.3 32.3 96.9
 227 58.4 31.8 95.4

