

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052220\
 Data File : VX016402.D
 Acq On : 22 May 2020 11:27
 Operator : JC/SP
 Sample : L2730-01DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:32:40 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	228664	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	377258	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	365524	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	179469	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	129461	43.02	ug/l	0.00
Spiked Amount			Recovery	=	86.04%	
35) Dibromofluoromethane	5.46	113	109857	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
50) Toluene-d8	8.70	98	459020	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.12	95	181063	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	

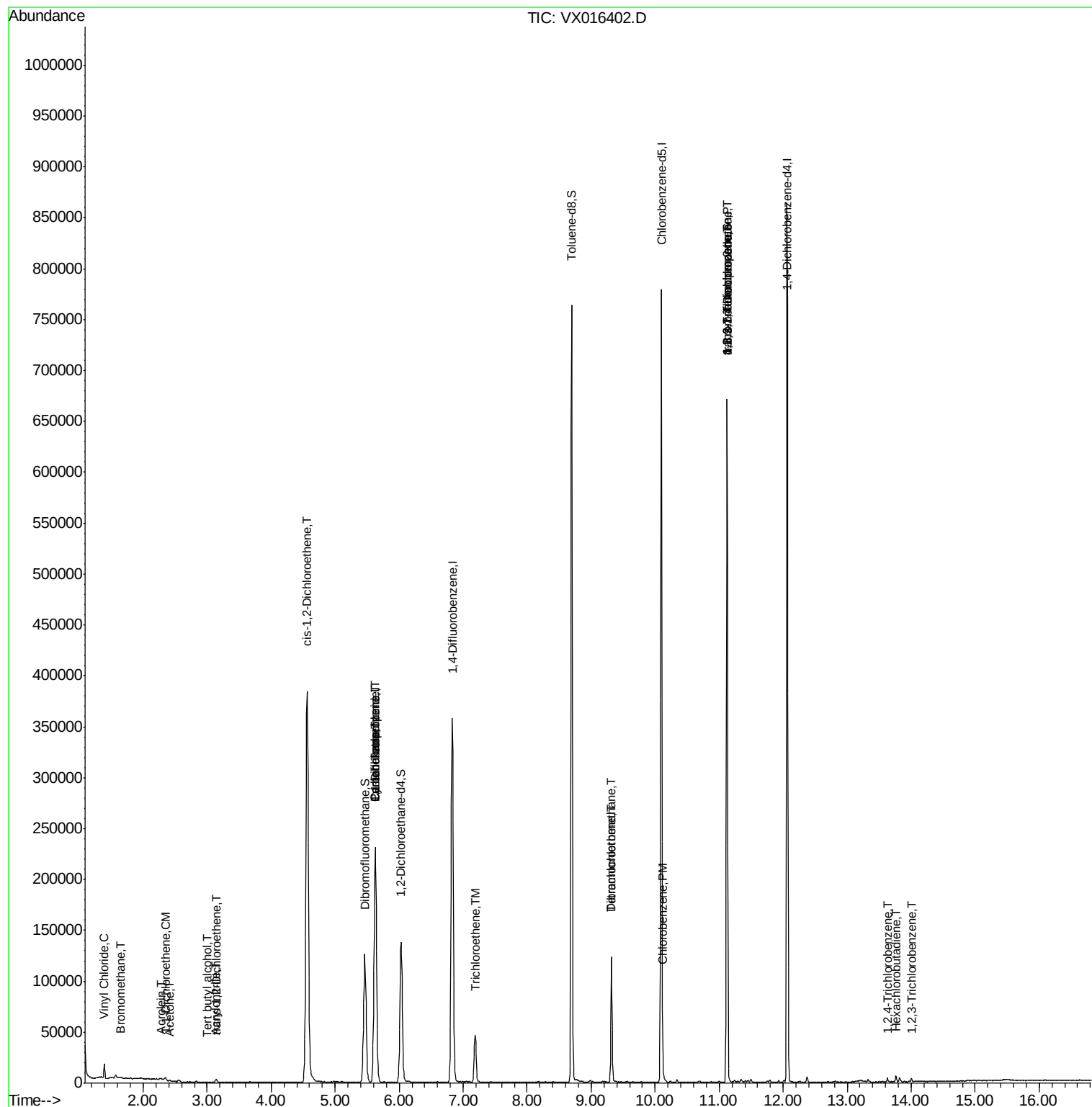
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	7872	2.625	ug/l	99
5) Bromomethane	1.64	94	430	0.284	ug/l #	76
11) Tert butyl alcohol	3.00	59	169	0.222	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	1013	0.426	ug/l #	76
13) Acrolein	2.27	56	521	1.094	ug/l #	68
15) Acrylonitrile	3.13	53	536	0.340	ug/l	91
16) Acetone	2.42	43	1205	0.898	ug/l	92
21) trans-1,2-Dichloroethene	3.15	96	1217	0.459	ug/l #	56
27) cis-1,2-Dichloroethene	4.56	96	257878	89.051	ug/l	85
31) Cyclohexane	5.62	56	4149	0.993	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15949	4.295	ug/l #	49
38) Carbon Tetrachloride	5.63	117	21578	5.717	ug/l #	14
44) Trichloroethene	7.19	130	18639	4.829	ug/l	97
60) Dibromochloromethane	9.32	129	22450	7.650	ug/l #	11
64) Tetrachloroethene	9.32	164	23717	5.285	ug/l	95
65) Chlorobenzene	10.12	112	1875	0.245	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.13	83	76	2.080	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	86565	21.256	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	86565	50.654	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1152	0.267	ug/l	94
94) Hexachlorobutadiene	13.77	225	875	0.990	ug/l	94
96) 1,2,3-Trichlorobenzene	14.00	180	956	0.227	ug/l	94

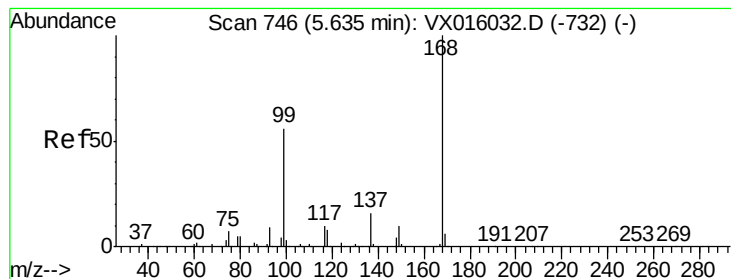
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX052220\
Data File : VX016402.D
Acq On : 22 May 2020 11:27
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Sample : L2730-01DL 5X
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: May 23 01:32:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

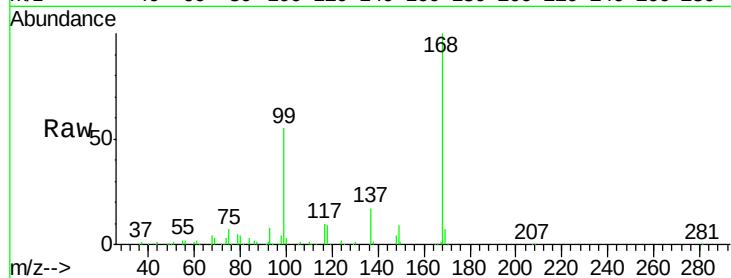
ClientSampleId :

Tot Ion:168 Resp: 228664

Ion Ratio Lower Upper

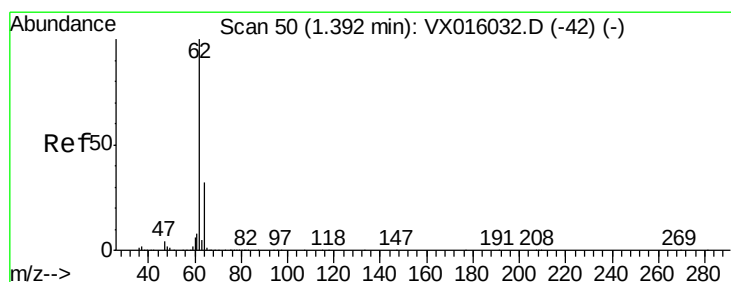
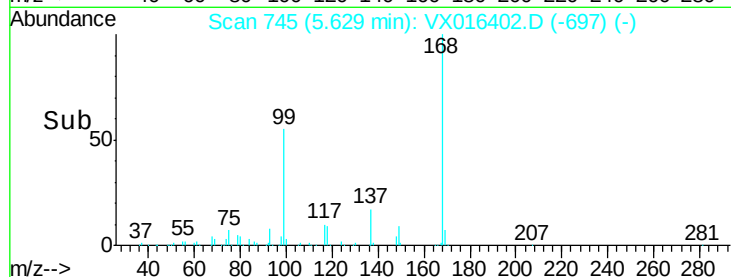
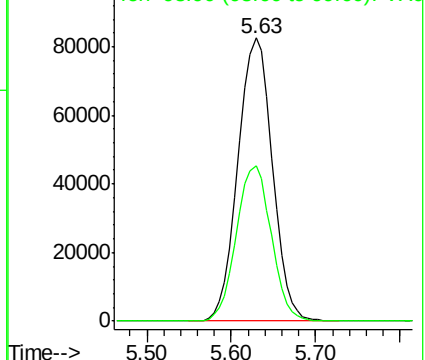
168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 2.625 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016402.D

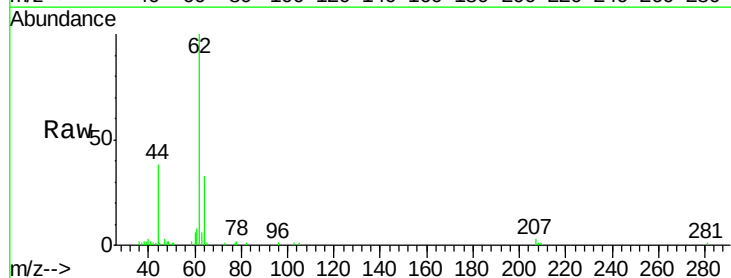
Acq: 22 May 2020 11:27

Tgt Ion: 62 Resp: 7872

Ion Ratio Lower Upper

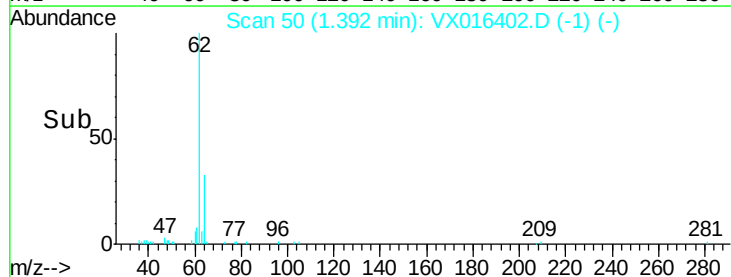
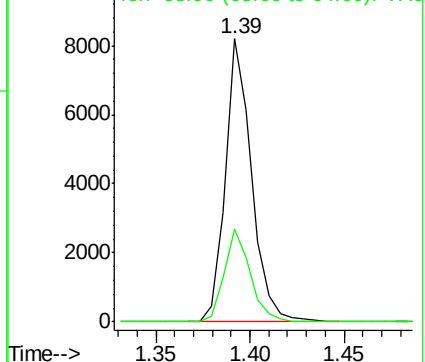
62 100

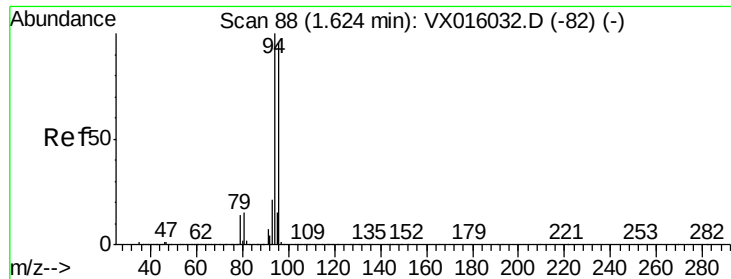
64 32.8 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.284 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

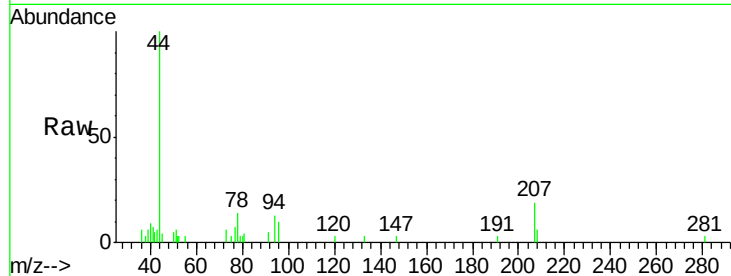
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 430

Ion Ratio Lower Upper

94 100

96 72.6 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

150

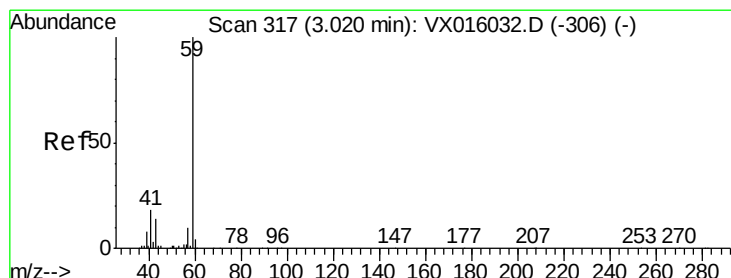
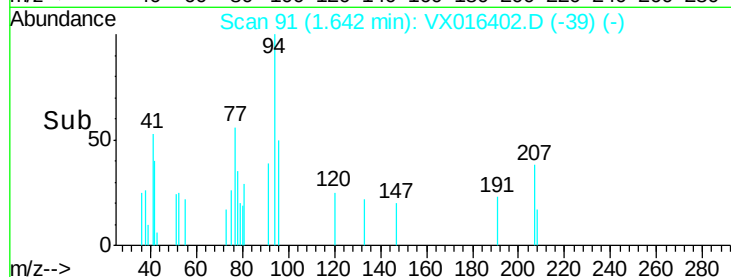
100

50

0

1.60 1.65 1.70

Time-->



#11

Tert butyl alcohol

Concen: 0.222 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016402.D

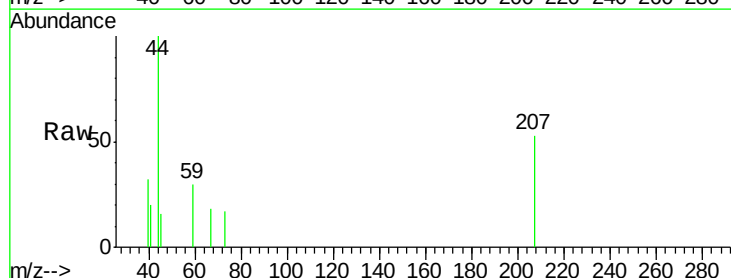
Acq: 22 May 2020 11:27

Tgt Ion: 59 Resp: 169

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

150

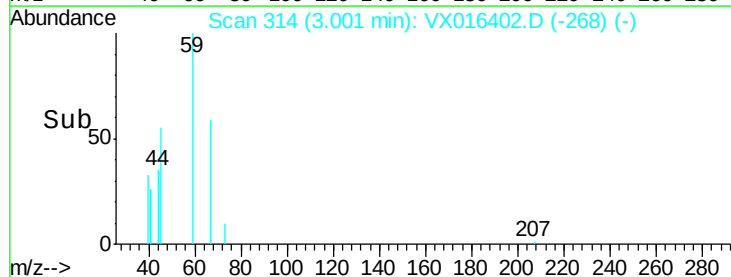
100

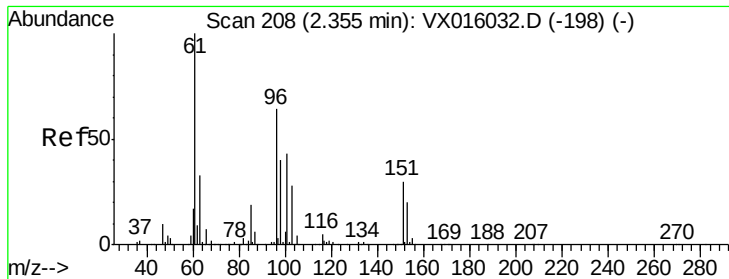
50

0

2.98 3.00 3.02 3.04

Time-->





#12

1,1-Dichloroethene

Concen: 0.426 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

ClientSampleId :

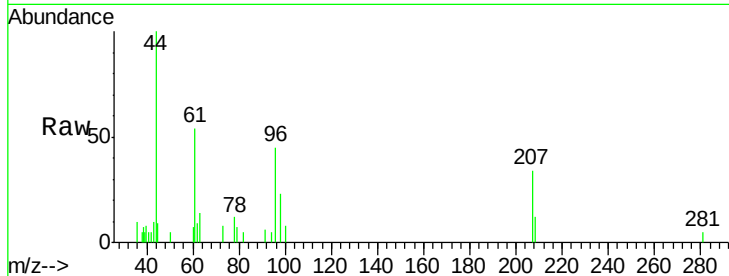
Tot Ion: 96 Resp: 1013

Ion Ratio Lower Upper

96 100

61 119.7 124.8 187.2#

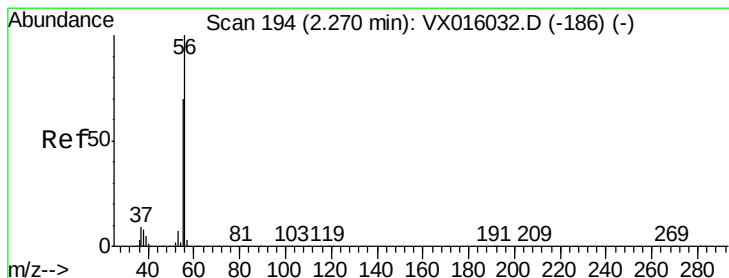
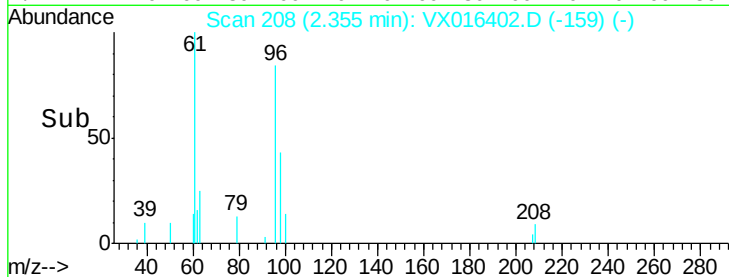
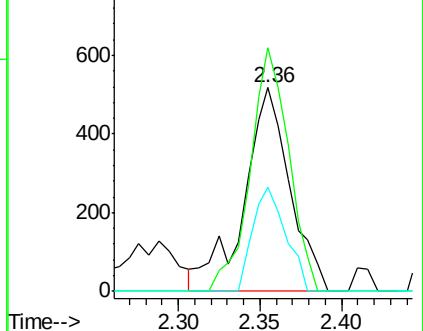
98 51.3 49.7 74.5



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: 1.094 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016402.D

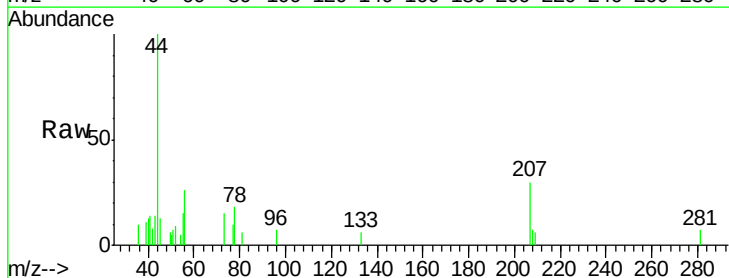
Acq: 22 May 2020 11:27

Tgt Ion: 56 Resp: 521

Ion Ratio Lower Upper

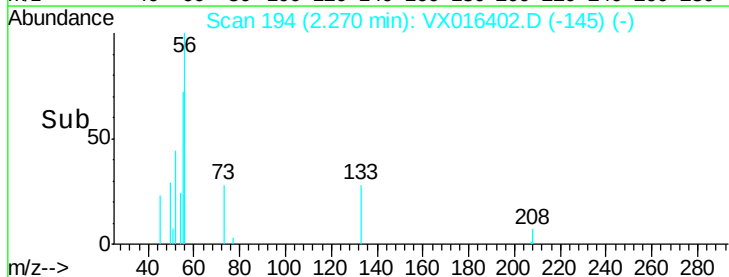
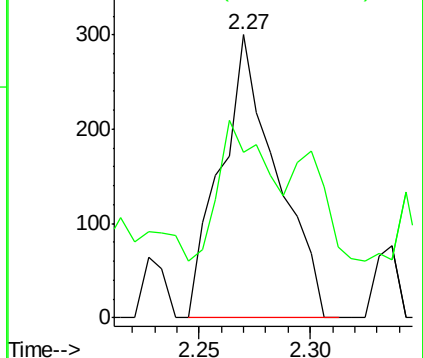
56 100

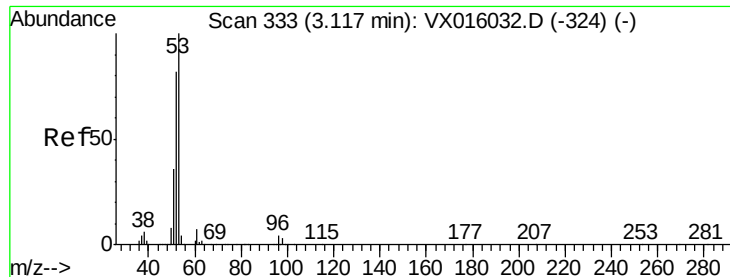
55 44.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.340 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

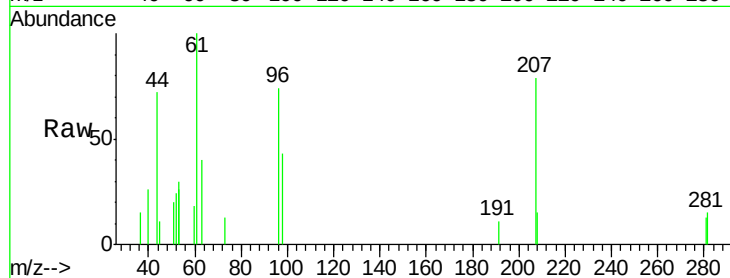
Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 53 Resp: 536

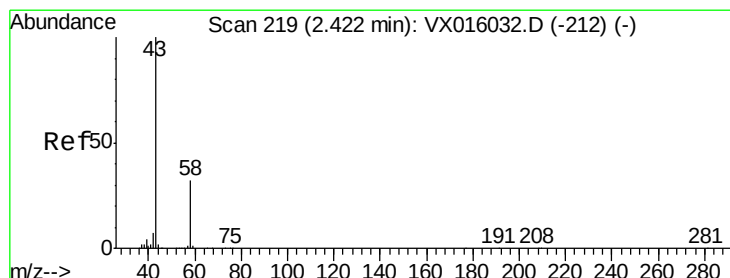
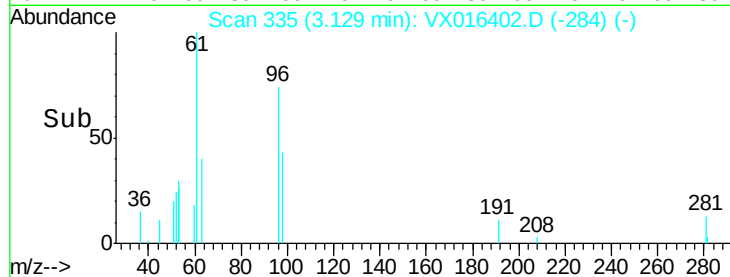
Ion	Ratio	Lower	Upper
53	100		
52	71.6	66.1	99.1
51	36.4	28.8	43.2



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: 0.898 ug/l

RT: 2.42 min Scan# 218

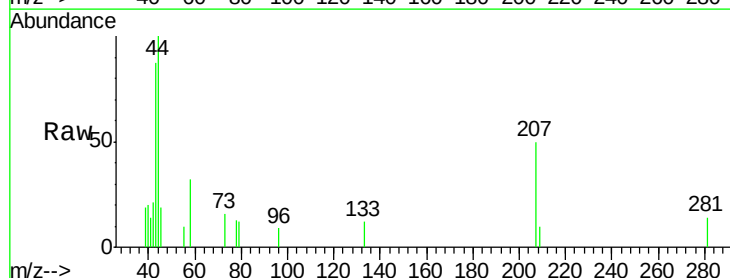
Delta R.T. -0.01 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

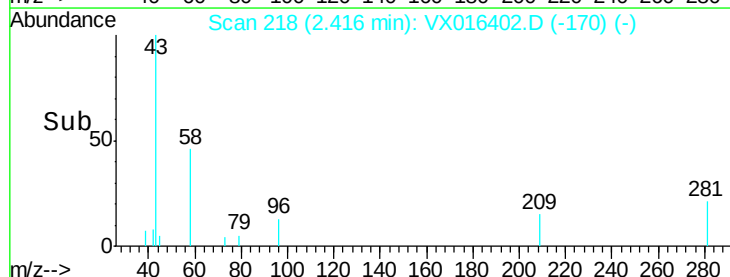
Tgt Ion: 43 Resp: 1205

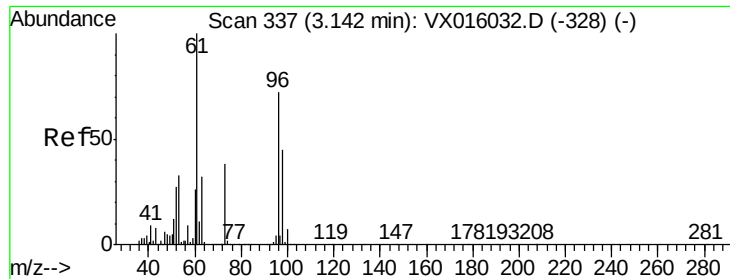
Ion	Ratio	Lower	Upper
43	100		
58	36.2	25.4	38.0



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: 0.459 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

ClientSampleId :

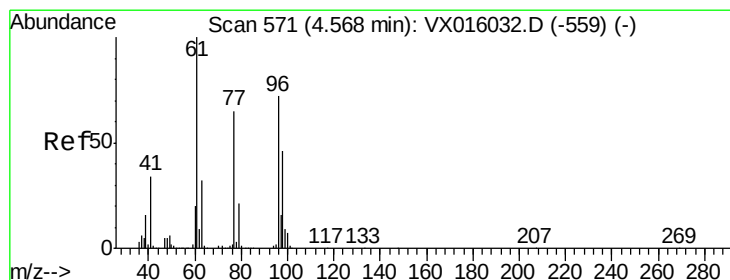
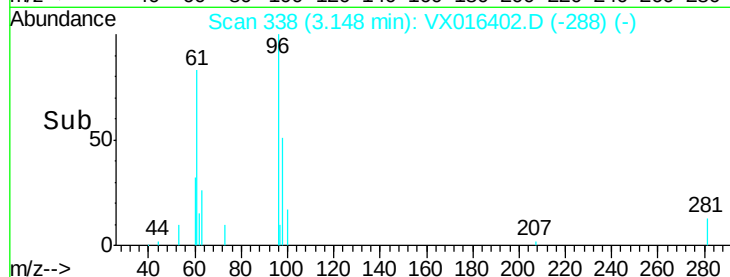
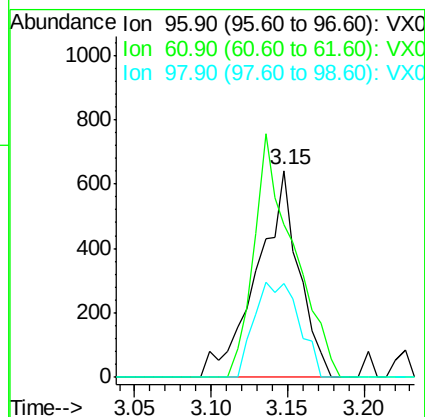
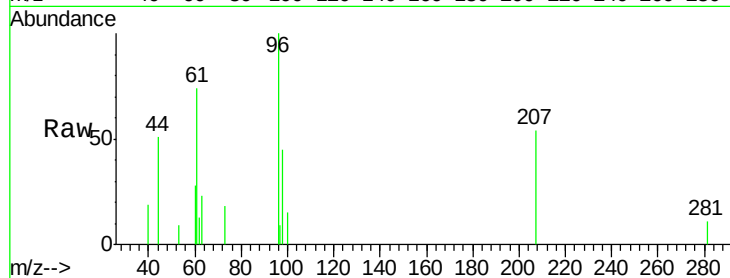
Tot Ion: 96 Resp: 1217

Ion Ratio Lower Upper

96 100

61 74.0 111.2 166.8#

98 45.2 50.2 75.4#



#27

cis-1,2-Dichloroethene

Concen: 89.051 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.01 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

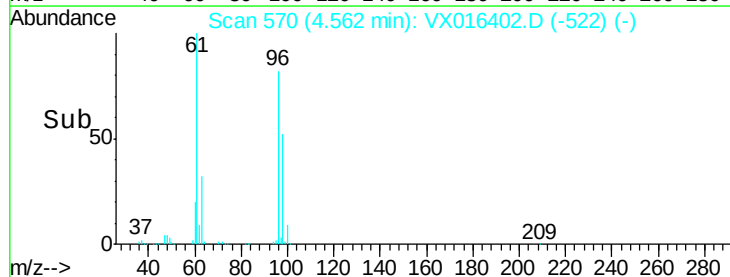
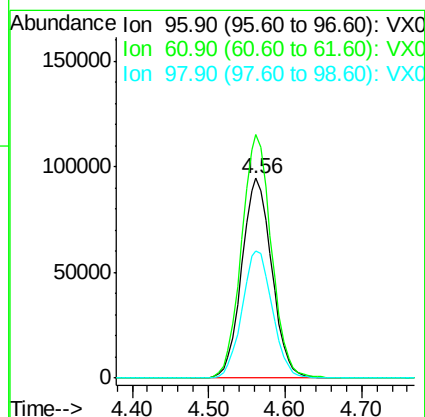
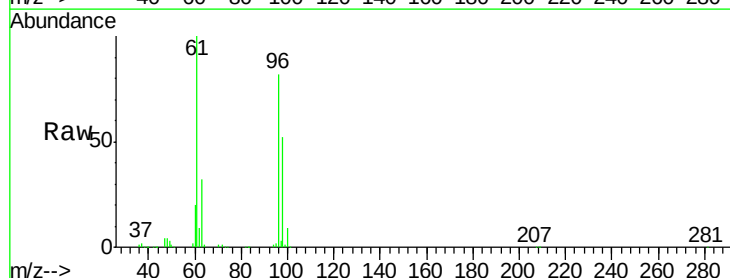
Tgt Ion: 96 Resp: 257878

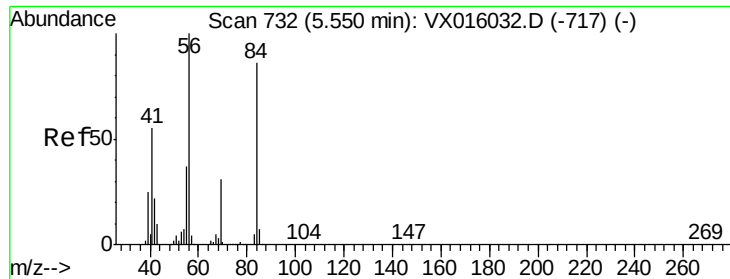
Ion Ratio Lower Upper

96 100

61 121.2 0.0 296.2

98 64.3 0.0 129.4

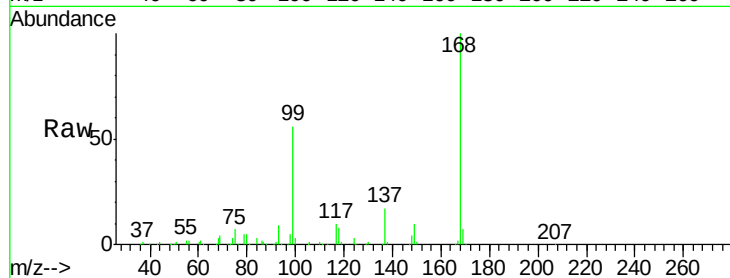




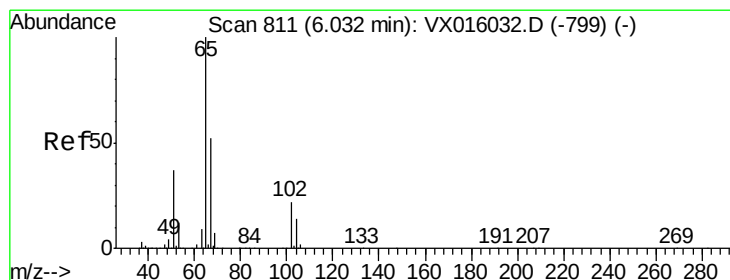
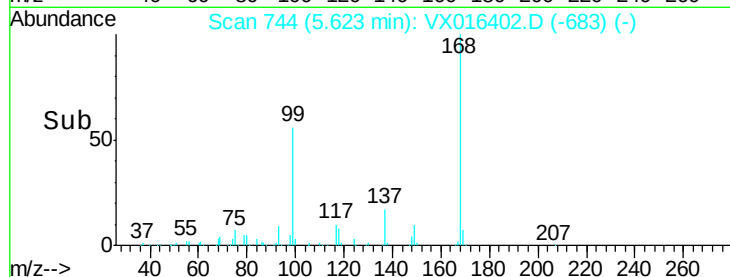
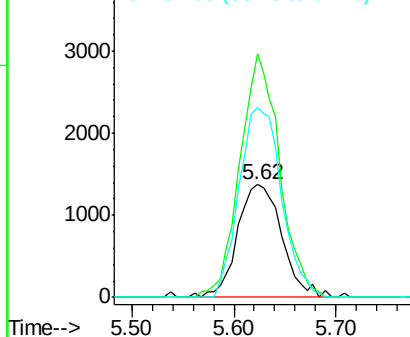
#31
Cyclohexane
Concen: 0.993 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 4149
Ion Ratio Lower Upper
56 100
69 216.3 25.0 37.6#
84 168.3 69.0 103.6#

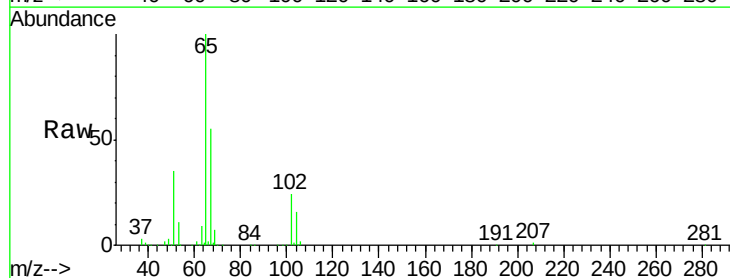


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

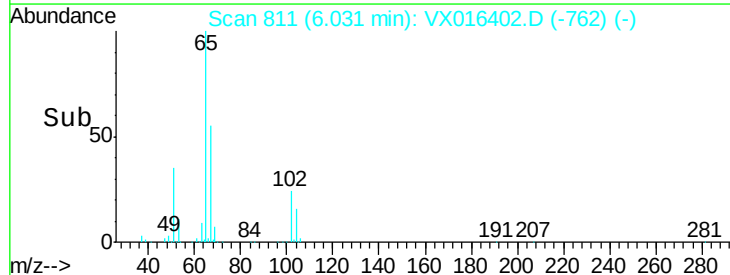
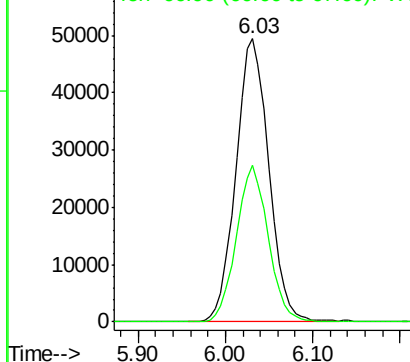


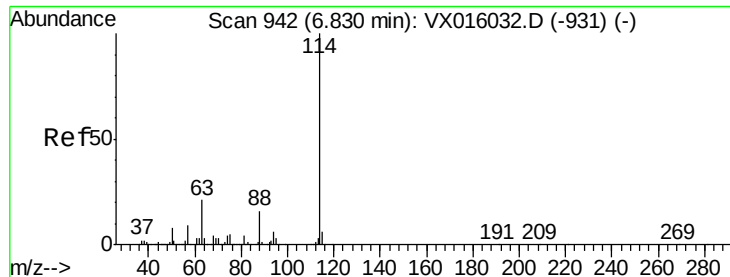
#33
1,2-Dichloroethane-d4
Concen: 43.025 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

Tgt Ion: 65 Resp: 129461
Ion Ratio Lower Upper
65 100
67 53.4 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: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

ClientSampleId :

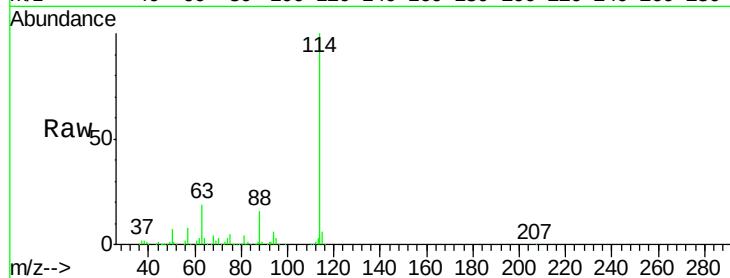
Tot Ion:114 Resp: 377258

Ion Ratio Lower Upper

114 100

63 19.4 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

200000

150000

100000

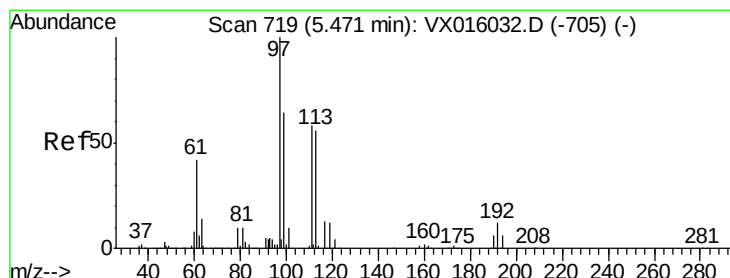
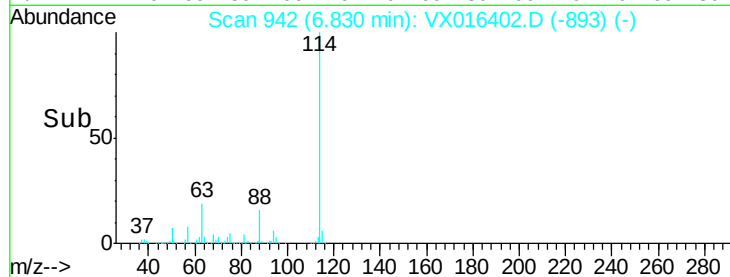
50000

0

6.83

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 45.964 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

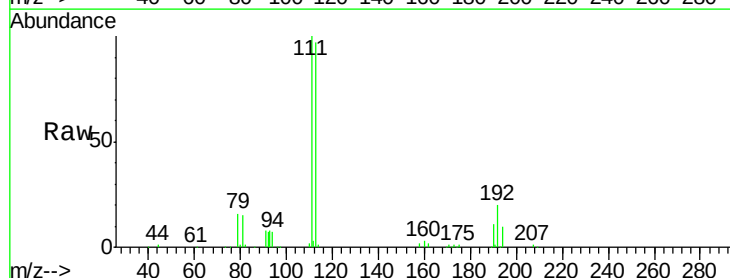
Tgt Ion:113 Resp: 109857

Ion Ratio Lower Upper

113 100

111 101.8 81.6 122.4

192 21.6 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

50000

40000

30000

20000

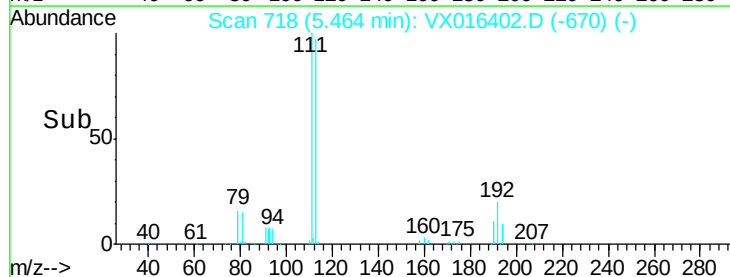
10000

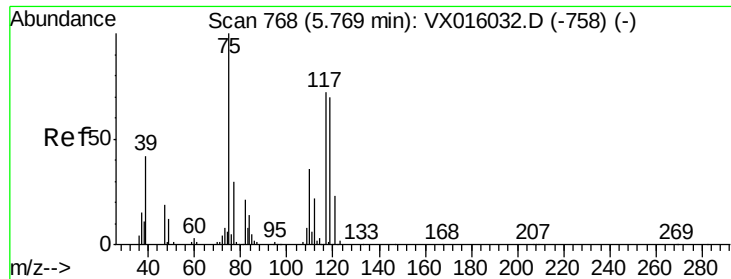
0

5.46

5.30 5.40 5.50 5.60

Time-->

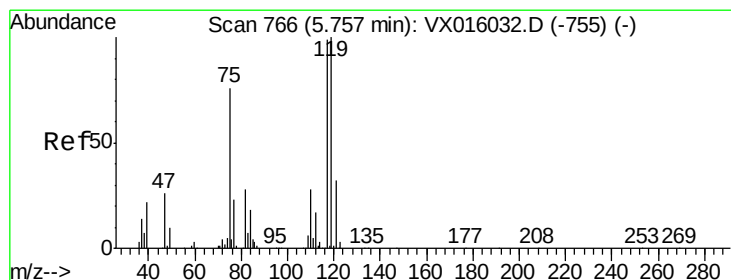
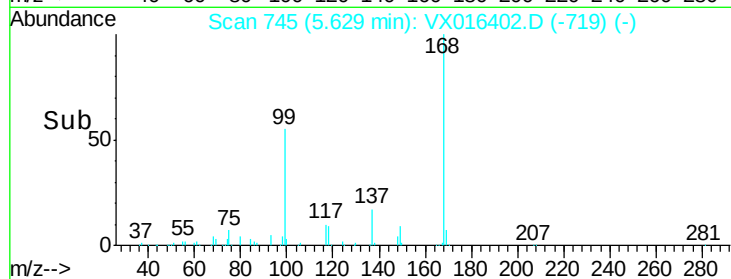
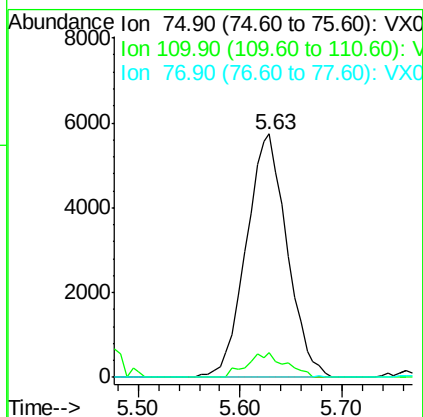
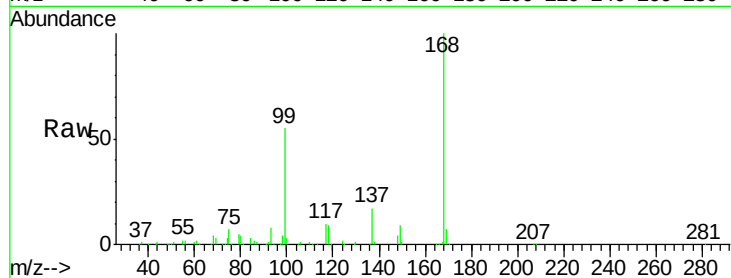




#36
 1,1-Dichloropropene
 Concen: 4.295 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016402.D
 Acq: 22 May 2020 11:27

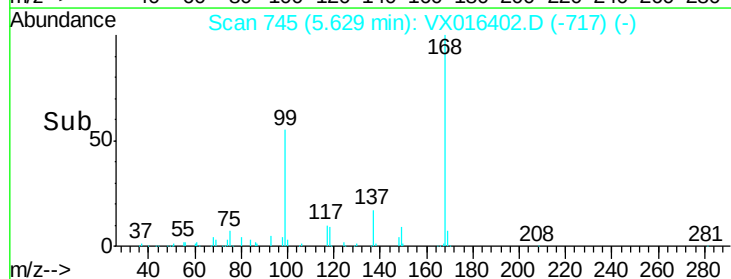
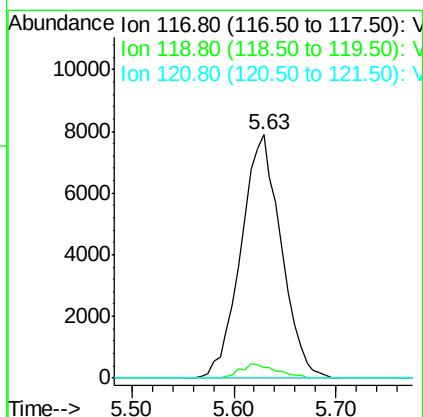
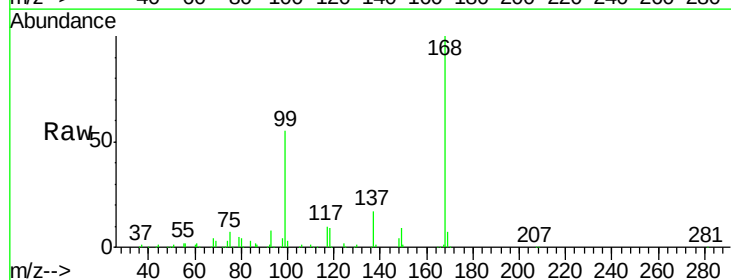
Instrument :
 MSVOA_X
 ClientSampleId :

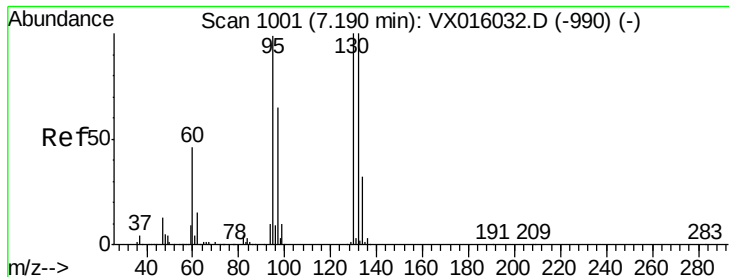
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.1	54.1#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.717 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.13 min
 Lab File: VX016402.D
 Acq: 22 May 2020 11:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	80.3	120.5#
121	0.0	25.7	38.5#





#44

Trichloroethene

Concen: 4.829 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

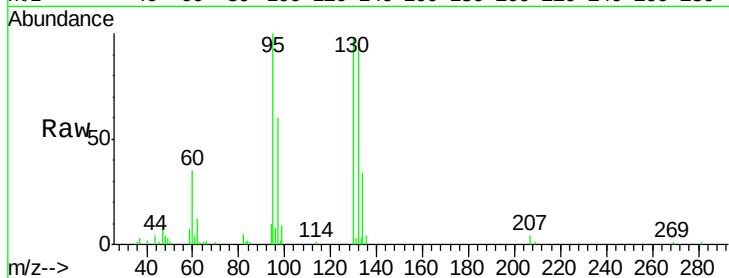
ClientSampleId :

Tot Ion:130 Resp: 18639

Ion Ratio Lower Upper

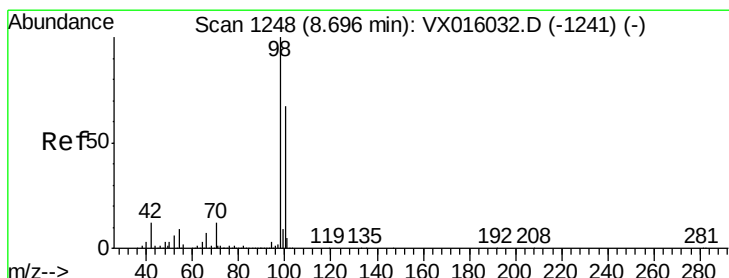
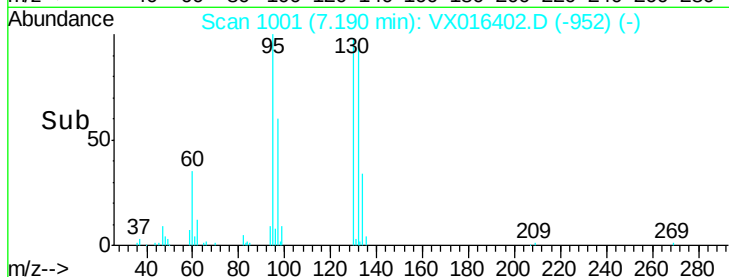
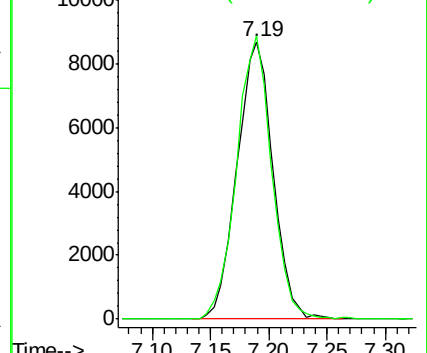
130 100

95 102.1 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: 49.844 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016402.D

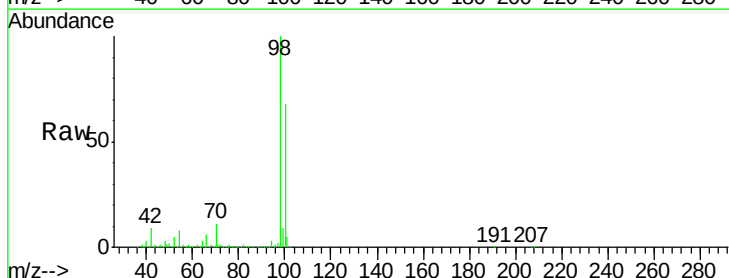
Acq: 22 May 2020 11:27

Tgt Ion: 98 Resp: 459020

Ion Ratio Lower Upper

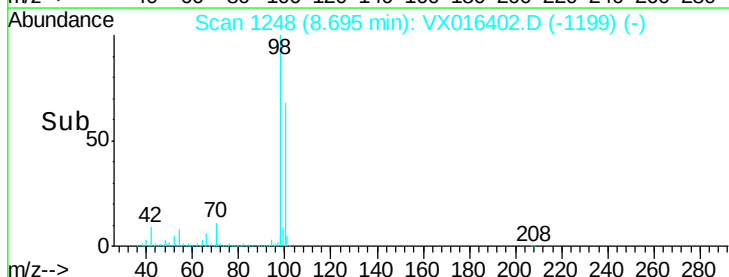
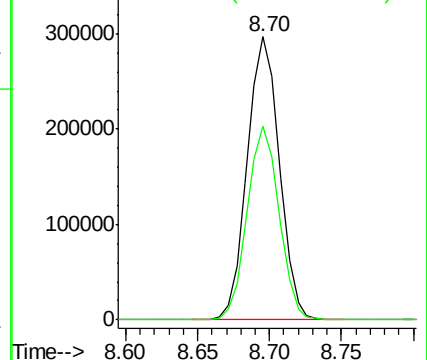
98 100

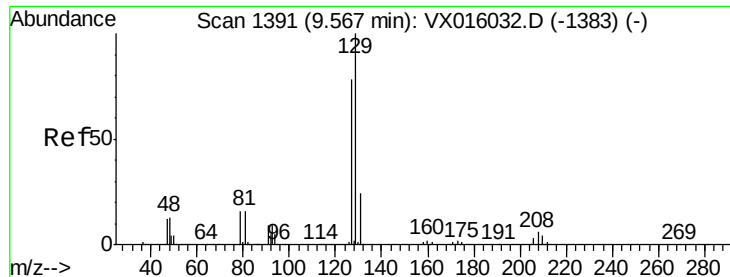
100 67.7 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 7.650 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

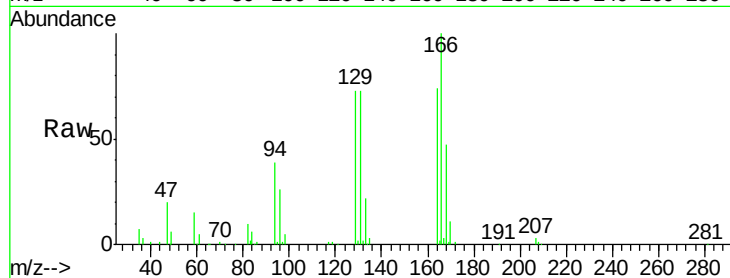
ClientSampleId :

Tot Ion:129 Resp: 22450

Ion Ratio Lower Upper

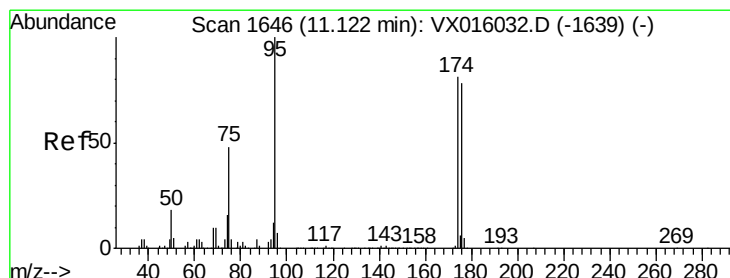
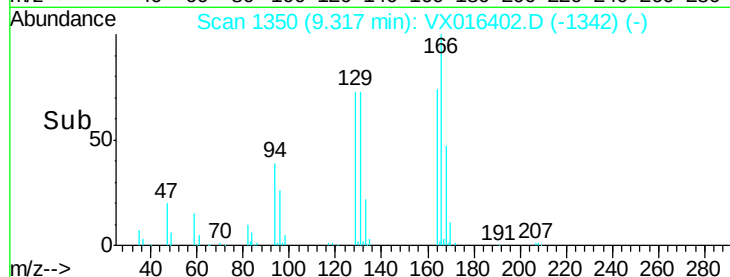
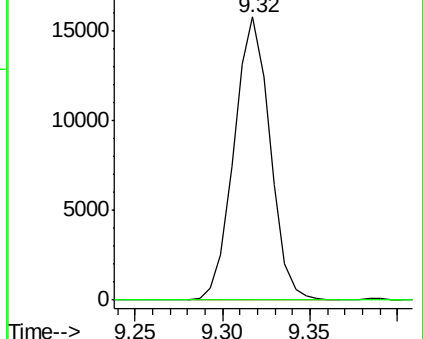
129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 51.692 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

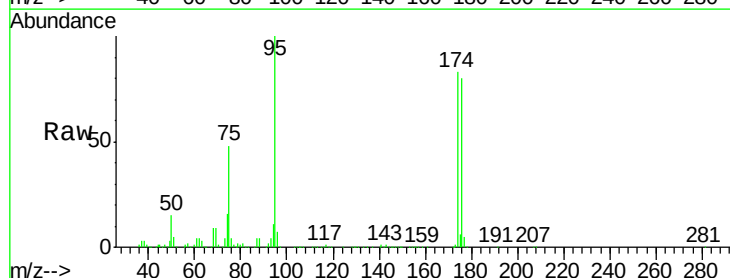
Tgt Ion: 95 Resp: 181063

Ion Ratio Lower Upper

95 100

174 82.7 0.0 159.4

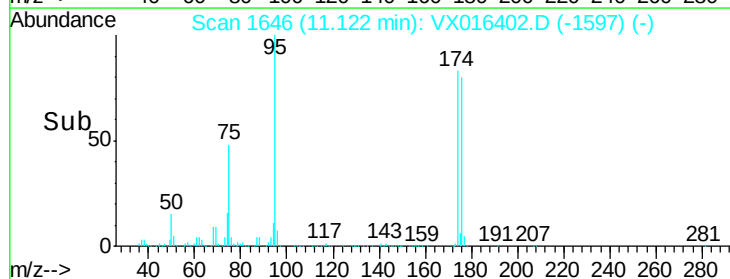
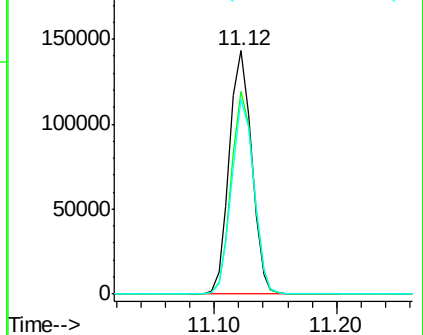
176 79.4 0.0 157.6

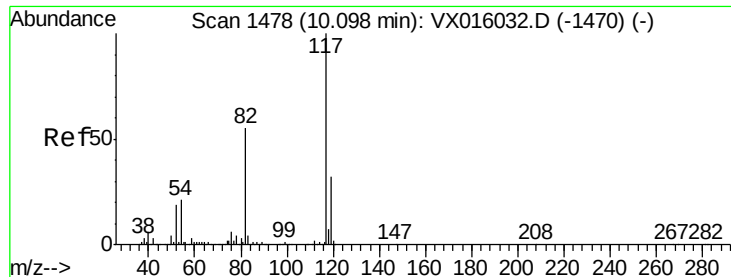


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

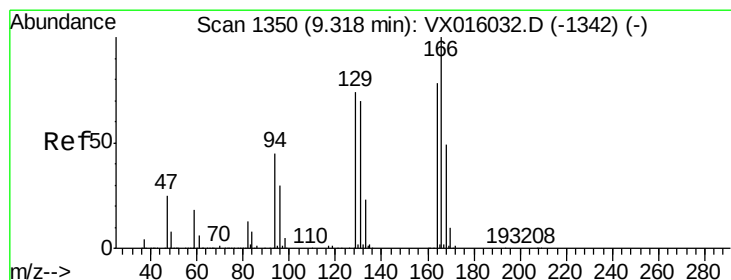
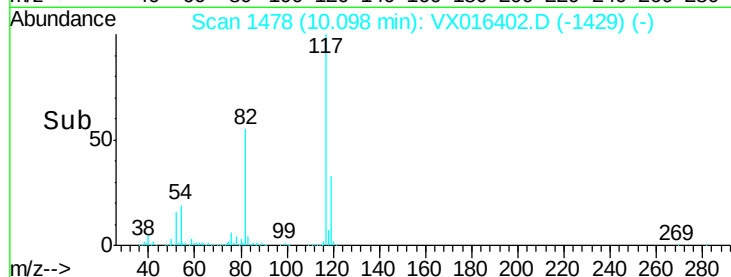
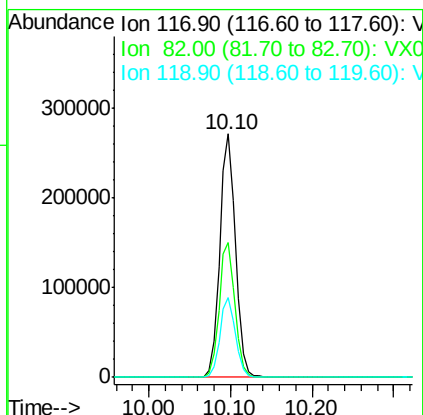
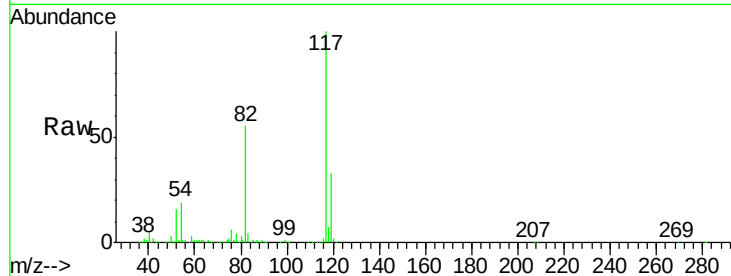




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

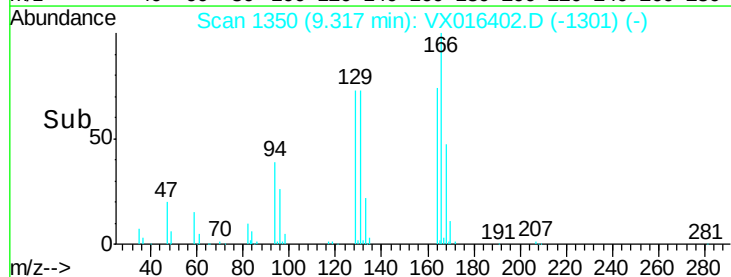
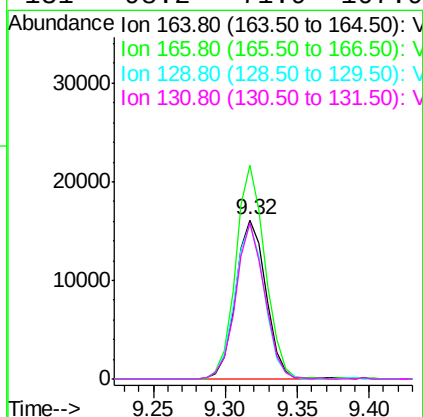
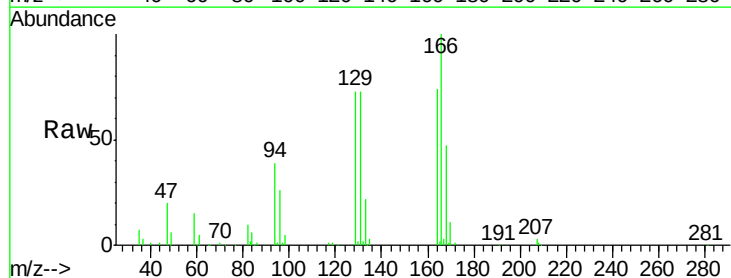
Instrument :
MSVOA_X
ClientSampleId :

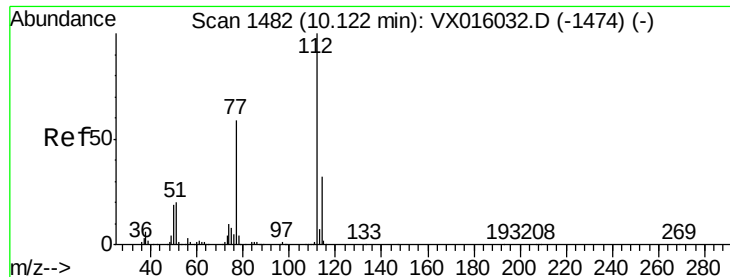
Tot Ion:117 Resp: 365524
Ion Ratio Lower Upper
117 100
82 55.5 44.4 66.6
119 32.7 25.5 38.3



#64
Tetrachloroethene
Concen: 5.285 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

Tgt Ion:164 Resp: 23717
Ion Ratio Lower Upper
164 100
166 134.4 102.9 154.3
129 97.7 76.1 114.1
131 98.2 71.9 107.9





#65

Chlorobenzene

Concen: 0.245 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

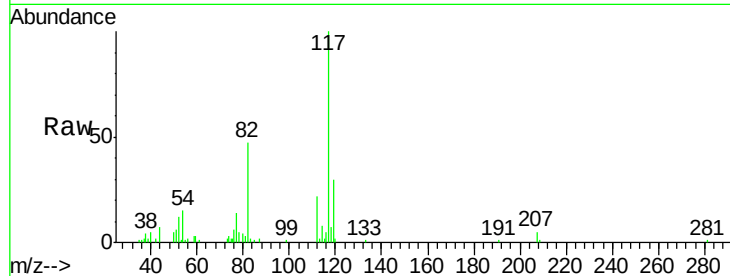
ClientSampled :

Tot Ion:112 Resp: 1875

Ion Ratio Lower Upper

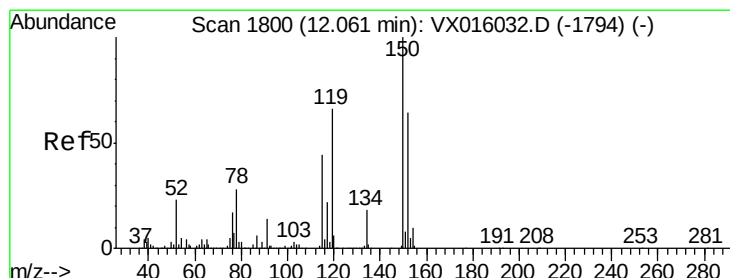
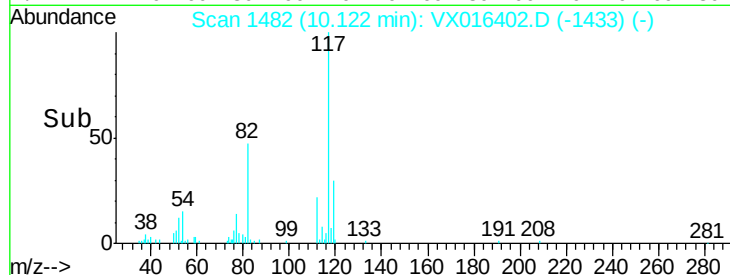
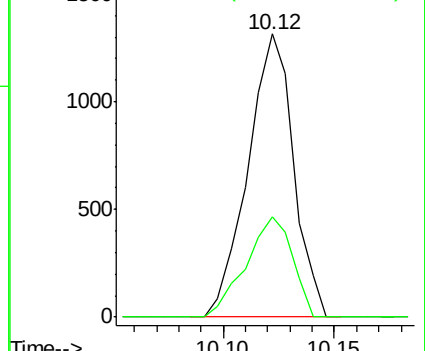
112 100

114 35.6 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: VX016402.D

Acq: 22 May 2020 11:27

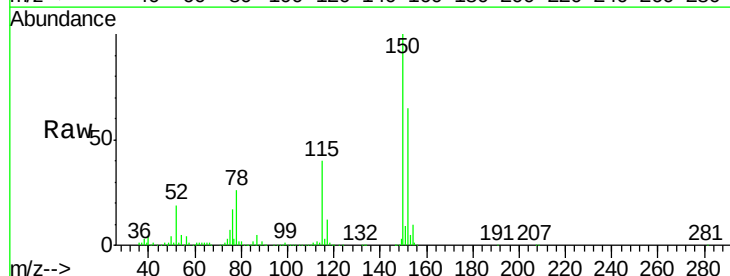
Tgt Ion:152 Resp: 179469

Ion Ratio Lower Upper

152 100

115 60.2 41.3 124.1

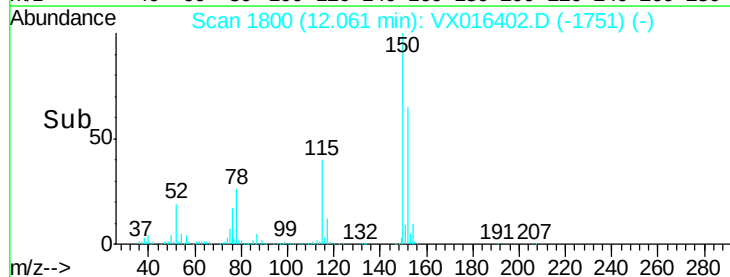
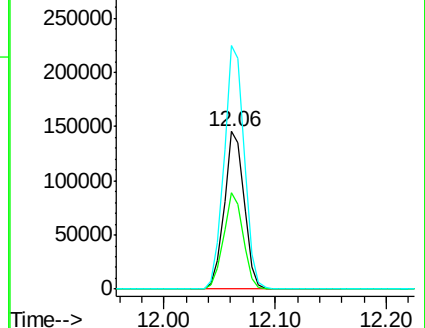
150 157.1 0.0 352.2

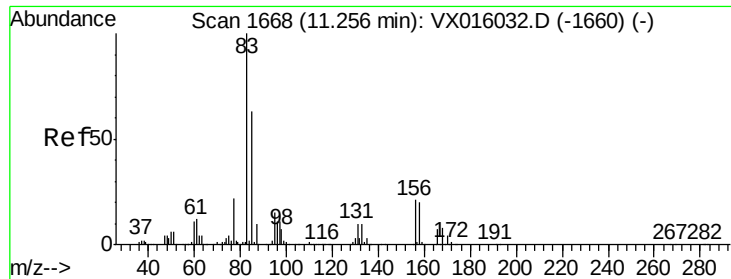


Abundance Ion 151.90 (151.60 to 152.60): V

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: 2.080 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

ClientSampleId :

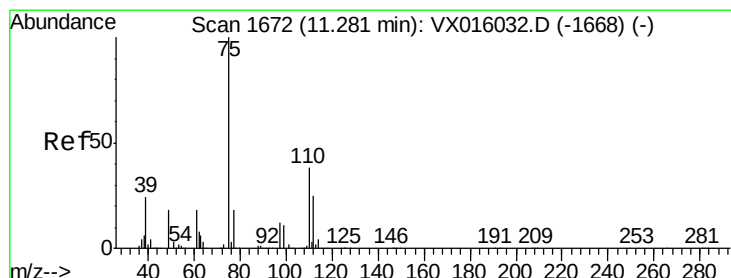
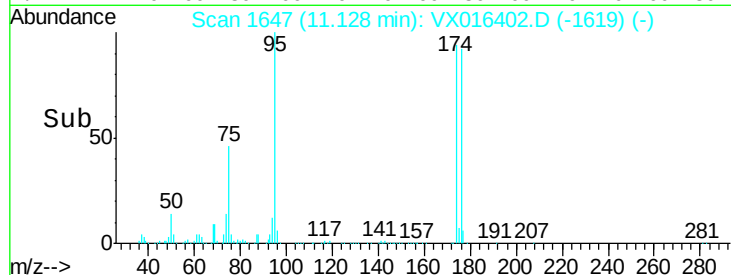
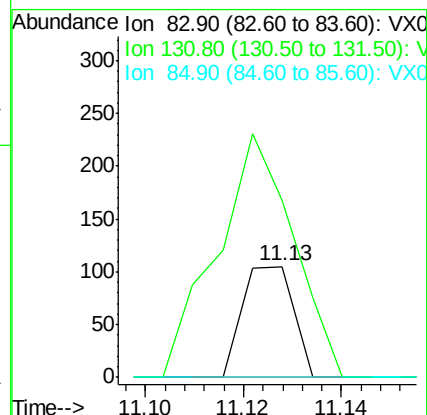
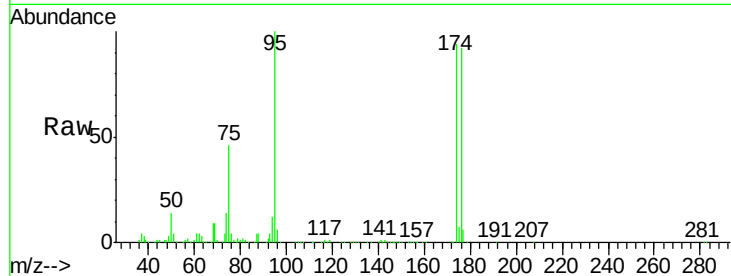
Tot Ion: 83 Resp: 76

Ion Ratio Lower Upper

83 100

131 328.9 5.1 15.4#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 21.256 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016402.D

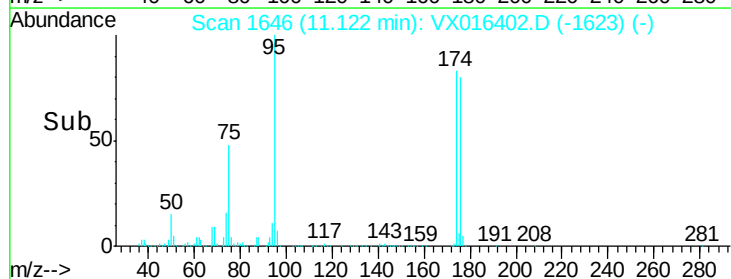
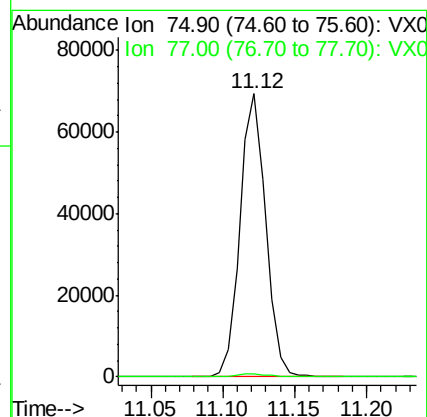
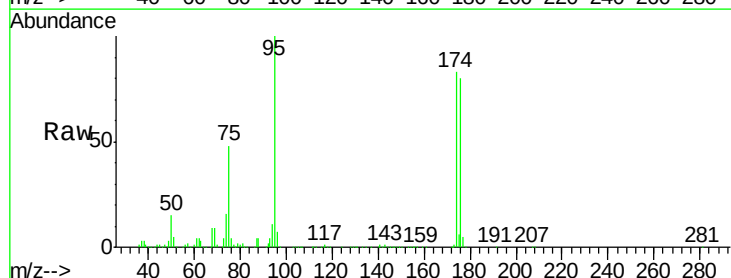
Acq: 22 May 2020 11:27

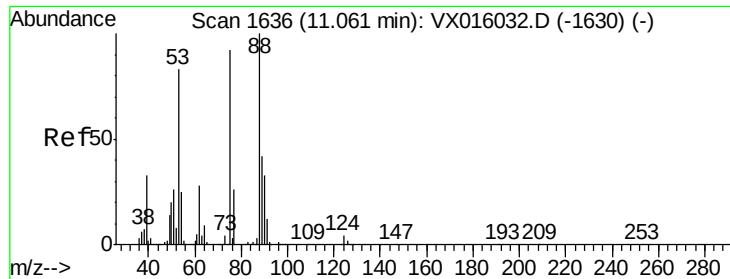
Tgt Ion: 75 Resp: 86565

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 50.654 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

Instrument :

MSVOA_X

ClientSampleId :

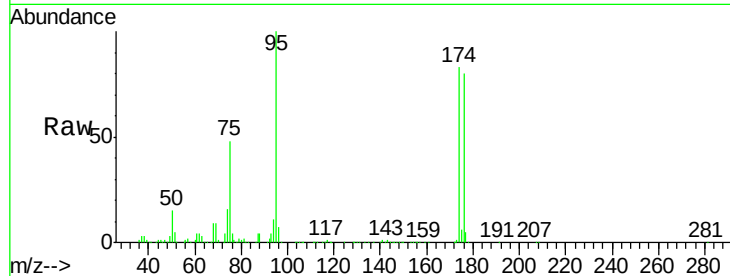
Tot Ion: 75 Resp: 86565

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

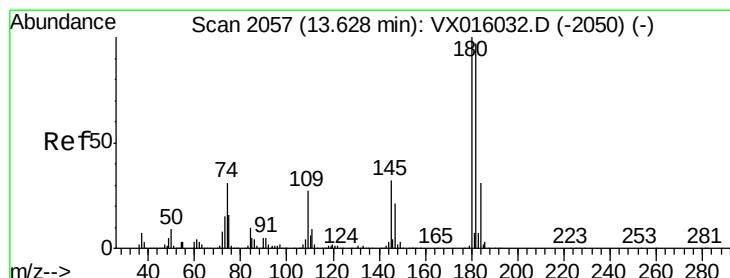
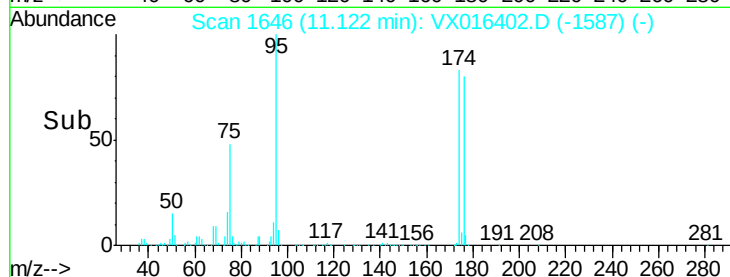
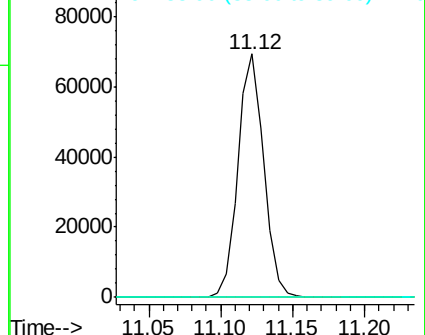
89 0.0 36.7 55.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.267 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX016402.D

Acq: 22 May 2020 11:27

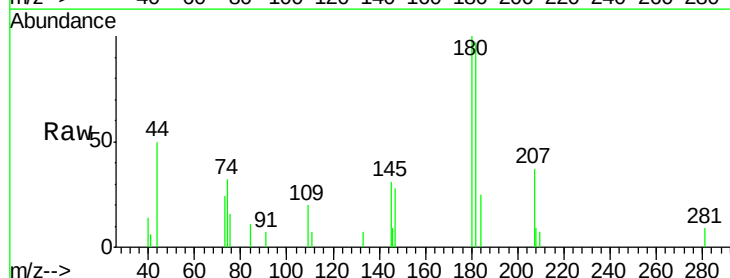
Tgt Ion: 180 Resp: 1152

Ion Ratio Lower Upper

180 100

182 91.7 48.7 146.1

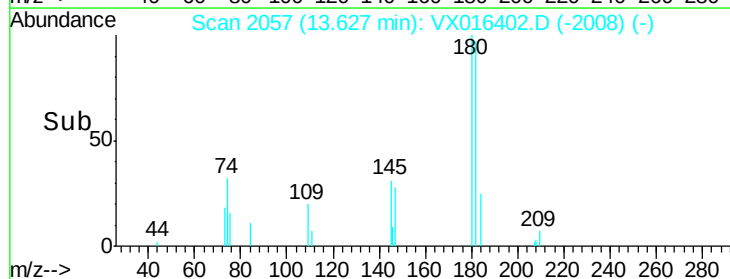
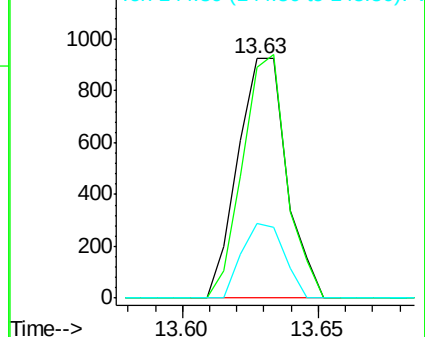
145 26.8 15.7 47.1

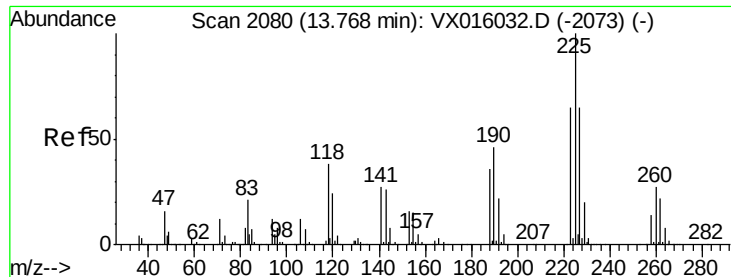


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

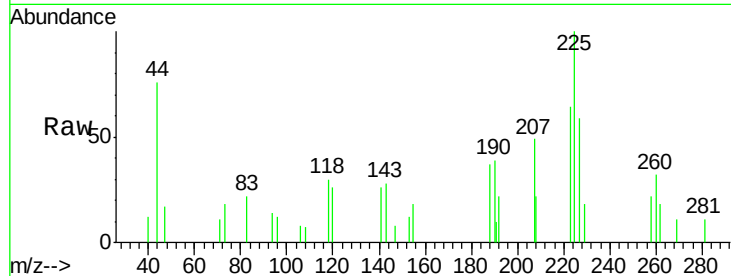




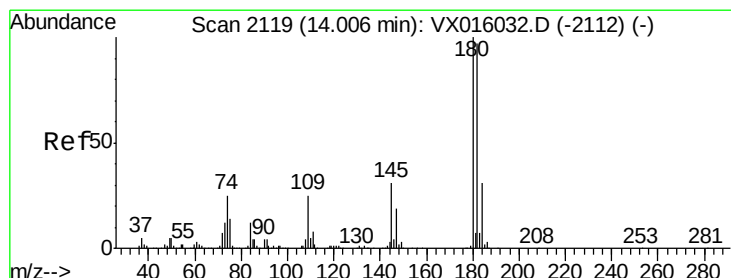
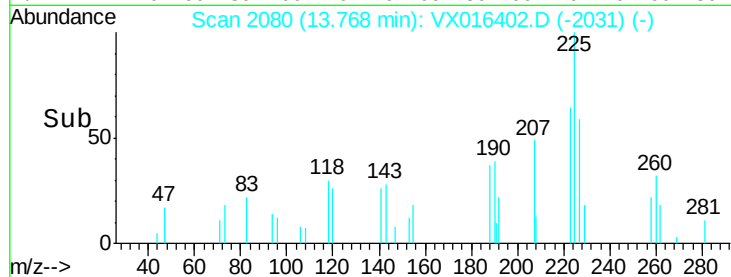
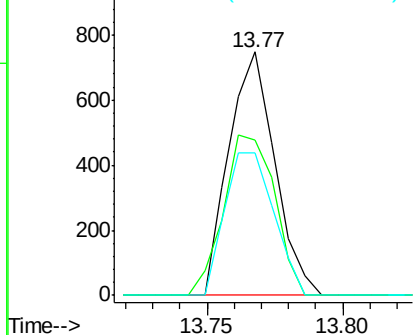
#94
Hexachlorobutadiene
Concen: 0.990 ug/l
RT: 13.77 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:225 Resp: 875
Ion Ratio Lower Upper
225 100
223 73.3 32.3 96.9
227 62.6 31.8 95.4

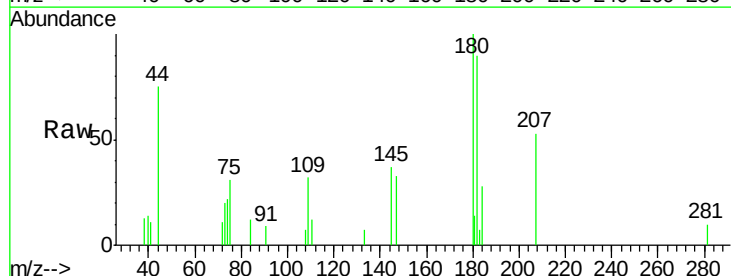


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#96
1,2,3-Trichlorobenzene
Concen: 0.227 ug/l
RT: 14.00 min Scan# 2118
Delta R.T. -0.01 min
Lab File: VX016402.D
Acq: 22 May 2020 11:27

Tgt Ion:180 Resp: 956
Ion Ratio Lower Upper
180 100
182 101.5 48.4 145.0
145 37.0 16.4 49.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

