

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX051120\
 Data File : VX016146.D
 Acq On : 11 May 2020 14:11
 Operator : JC/SP
 Sample : L2552-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS0520W376-200507

Quant Time: May 11 18:33:57 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	282572	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	452576	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	441043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	231508	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	168513	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	
35) Dibromofluoromethane	5.47	113	134868	47.04	ug/l	0.00
Spiked Amount			Recovery	=	94.08%	
50) Toluene-d8	8.70	98	564400	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.12	95	224681	53.47	ug/l	0.00
Spiked Amount			Recovery	=	106.94%	

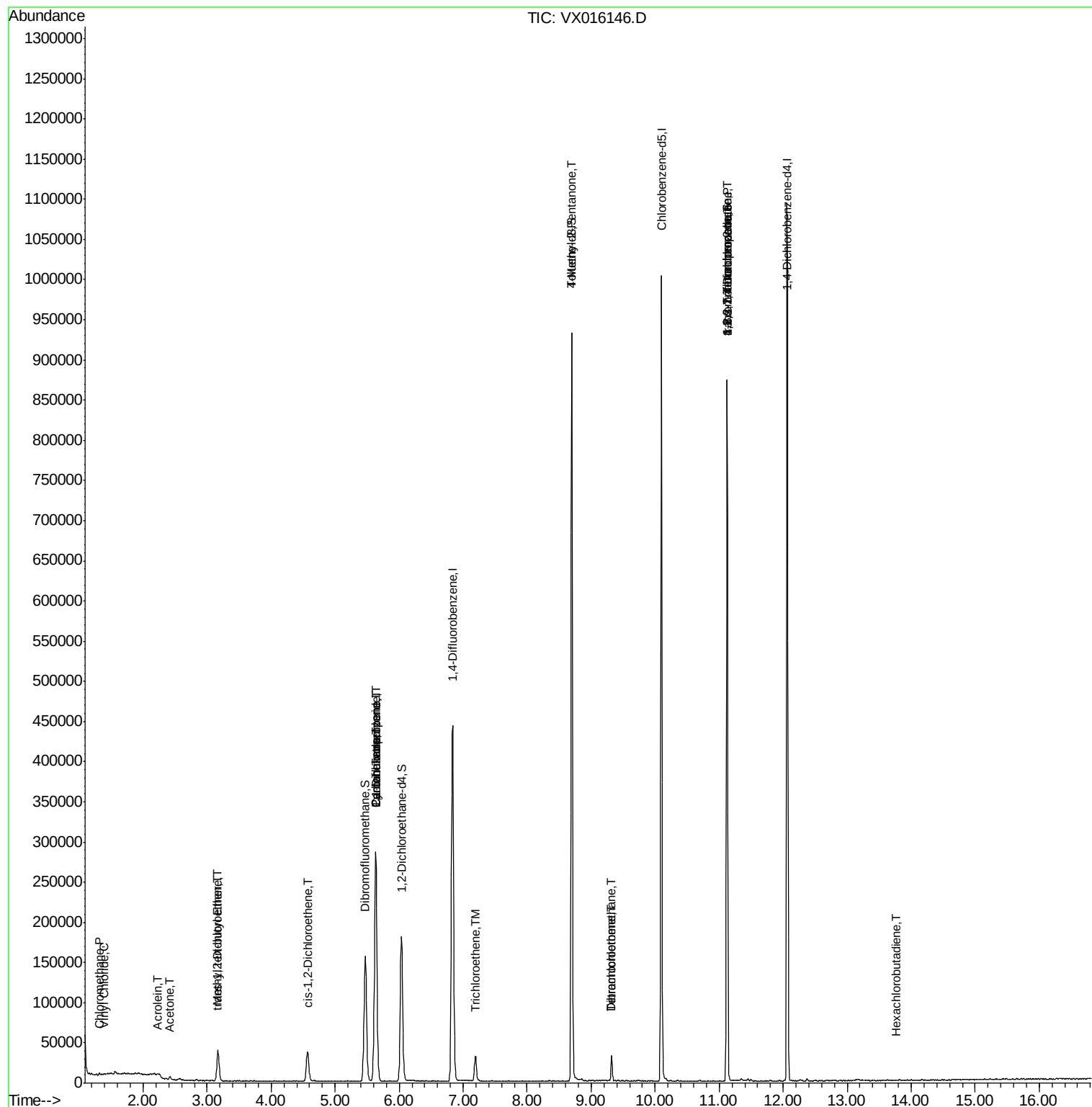
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1608	0.463	ug/l	89
4) Vinyl Chloride	1.39	62	931	0.251	ug/l	94
13) Acrolein	2.23	56	136	0.231	ug/l #	14
16) Acetone	2.42	43	3972	2.394	ug/l	94
19) Methyl tert-butyl Ether	3.17	73	43032	4.250	ug/l	94
21) trans-1,2-Dichloroethene	3.15	96	1278	0.390	ug/l #	68
27) cis-1,2-Dichloroethene	4.57	96	24312	6.794	ug/l	85
31) Cyclohexane	5.63	56	5473	1.060	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20717	4.650	ug/l #	49
38) Carbon Tetrachloride	5.64	117	26706	5.898	ug/l #	14
44) Trichloroethene	7.19	130	11790	2.546	ug/l	99
51) 4-Methyl-2-Pentanone	8.70	43	2276	0.451	ug/l #	1
60) Dibromochloromethane	9.32	129	5723	1.626	ug/l #	11
64) Tetrachloroethene	9.32	164	5878	1.086	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.12	83	102	2.081	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	112053	21.329	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	112053	50.830	ug/l #	13
94) Hexachlorobutadiene	13.77	225	102	0.566	ug/l #	29

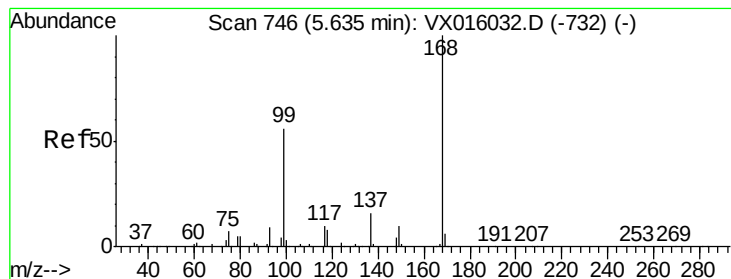
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

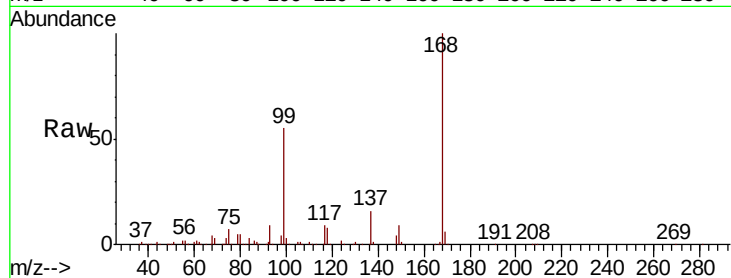
SS052OW376-200507

Tot Ion:168 Resp: 282572

Ion Ratio Lower Upper

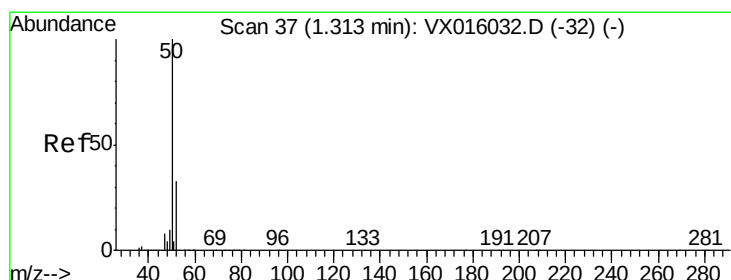
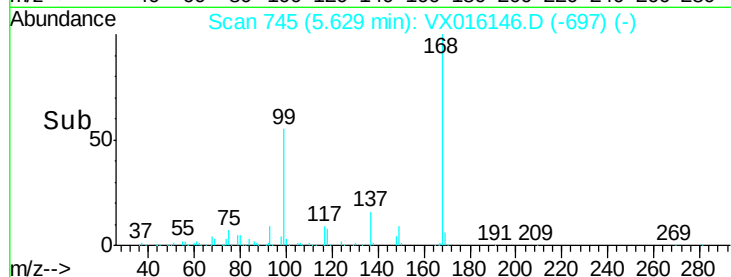
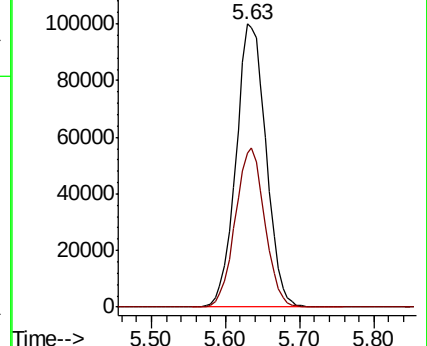
168 100

99 54.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016146.D

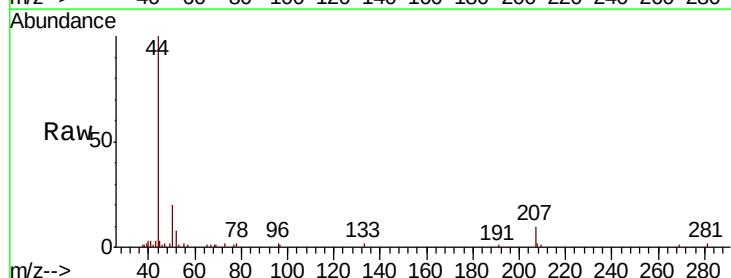
Acq: 11 May 2020 14:11

Tgt Ion: 50 Resp: 1608

Ion Ratio Lower Upper

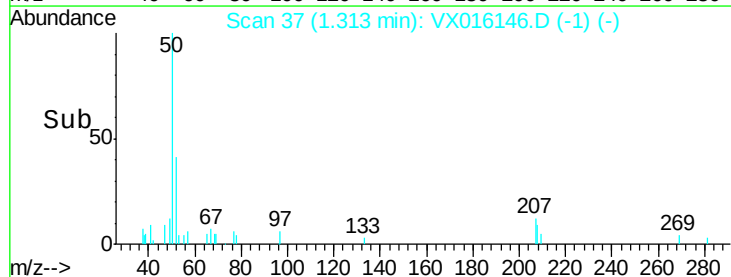
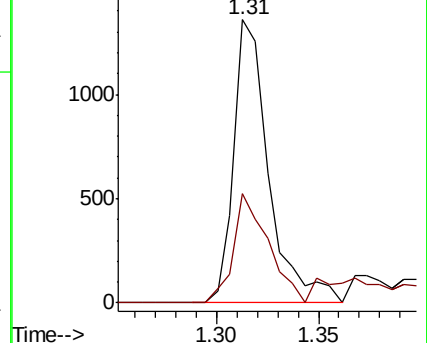
50 100

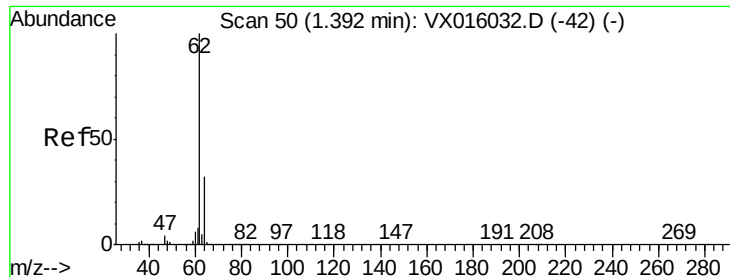
52 38.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.251 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

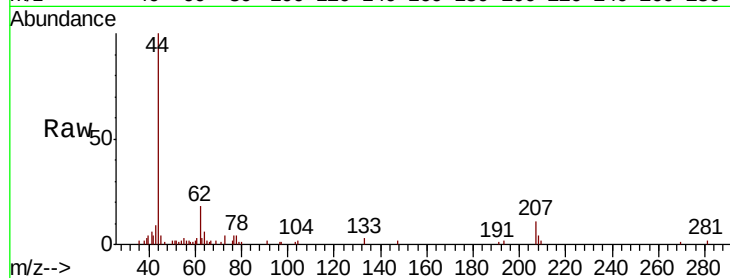
SS052OW376-200507

Tot Ion: 62 Resp: 931

Ion Ratio Lower Upper

62 100

64 35.4 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

800

600

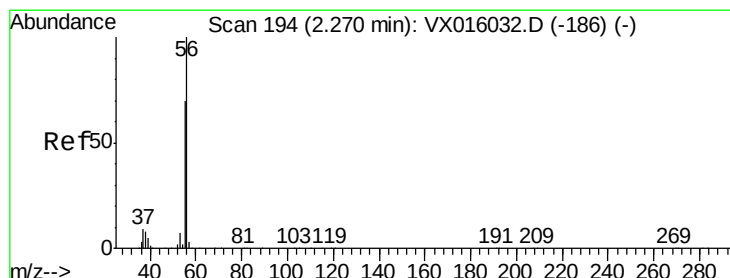
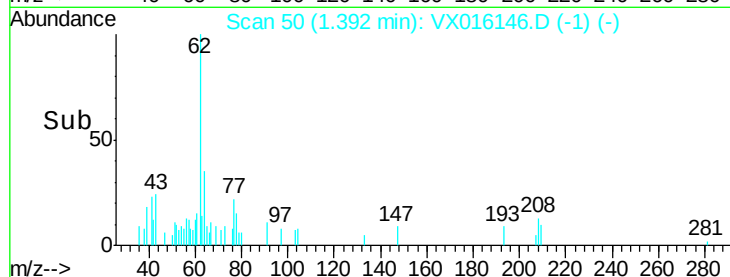
400

200

0

1.35 1.40

Time-->



#13

Acrolein

Concen: 0.231 ug/l

RT: 2.23 min Scan# 187

Delta R.T. -0.04 min

Lab File: VX016146.D

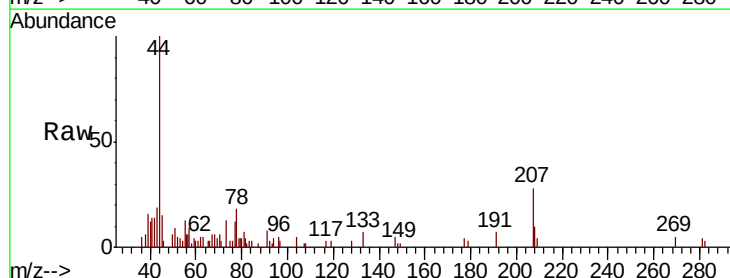
Acq: 11 May 2020 14:11

Tgt Ion: 56 Resp: 136

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.23

300

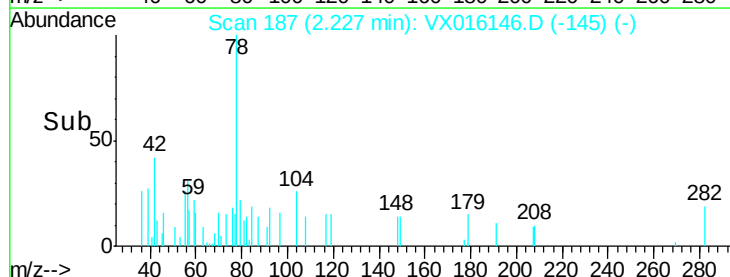
200

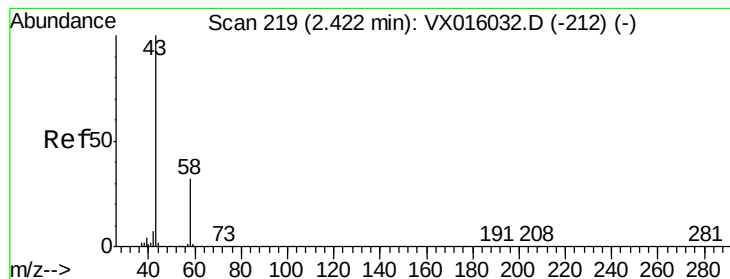
100

0

2.20 2.22 2.24 2.26

Time-->





#16

Acetone

Concen: 2.394 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

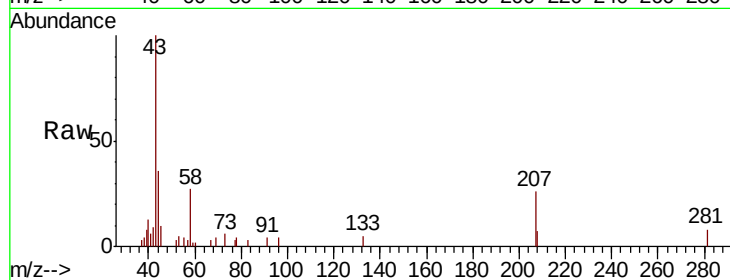
SS052OW376-200507

Tot Ion: 43 Resp: 3972

Ion Ratio Lower Upper

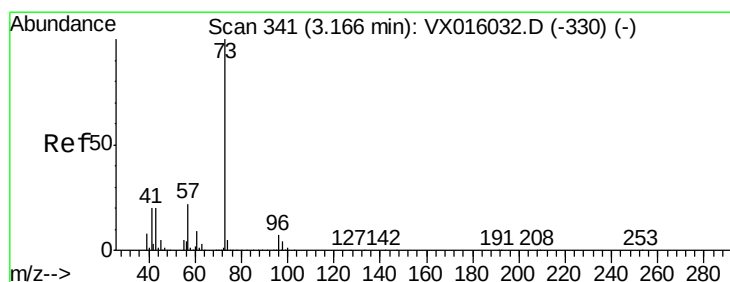
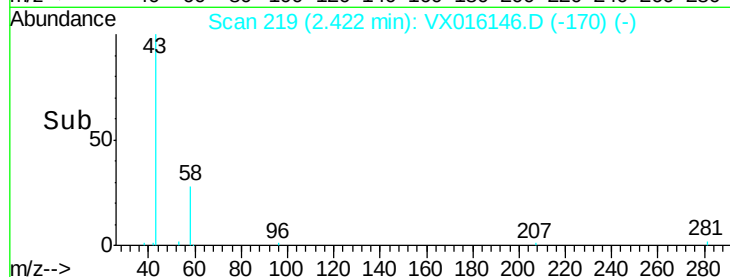
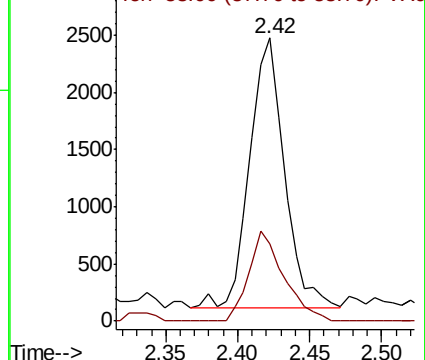
43 100

58 28.6 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#19

Methyl tert-butyl Ether

Concen: 4.250 ug/l

RT: 3.17 min Scan# 342

Delta R.T. 0.01 min

Lab File: VX016146.D

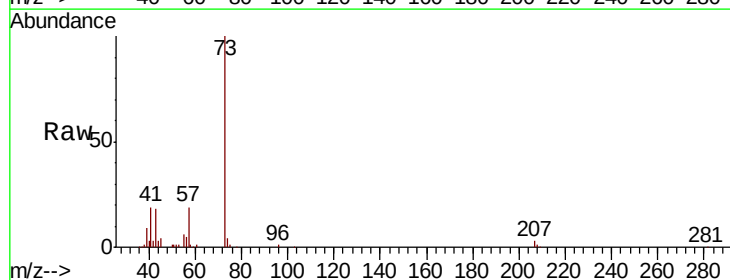
Acq: 11 May 2020 14:11

Tgt Ion: 73 Resp: 43032

Ion Ratio Lower Upper

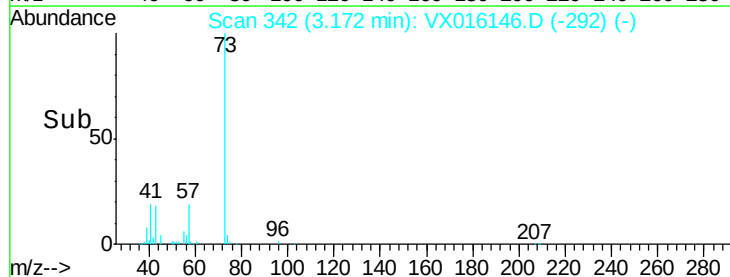
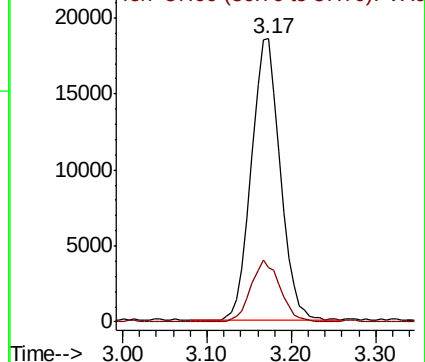
73 100

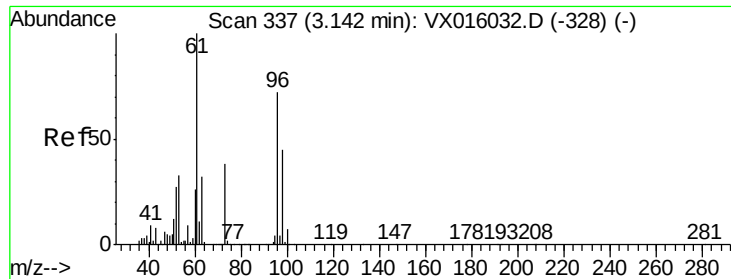
57 19.3 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.390 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

SS052OW376-200507

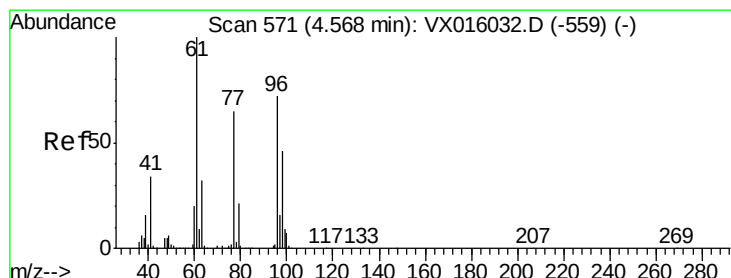
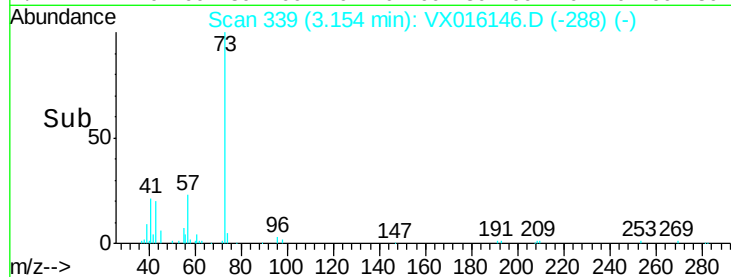
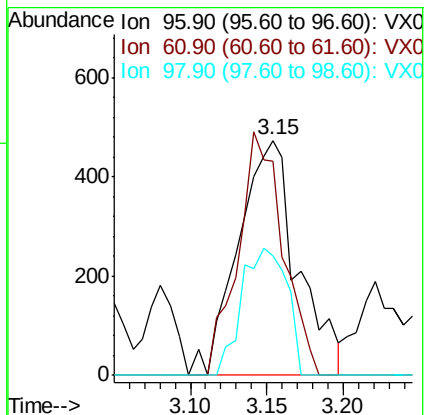
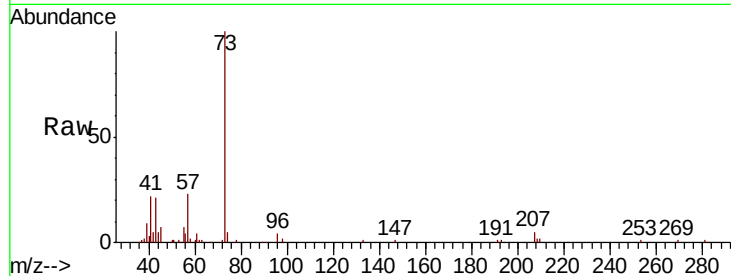
Tot Ion: 96 Resp: 1278

Ion Ratio Lower Upper

96 100

61 91.1 111.2 166.8#

98 51.0 50.2 75.4



#27

cis-1,2-Dichloroethene

Concen: 6.794 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

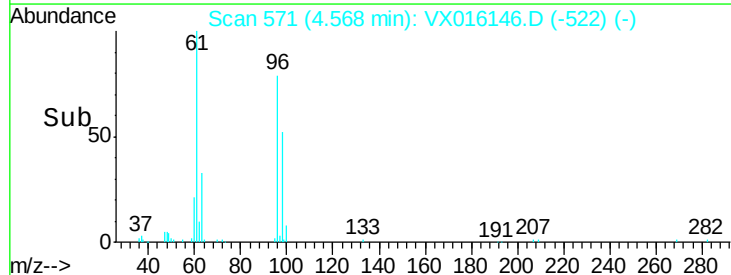
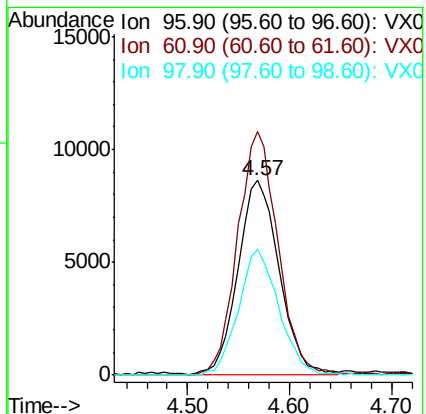
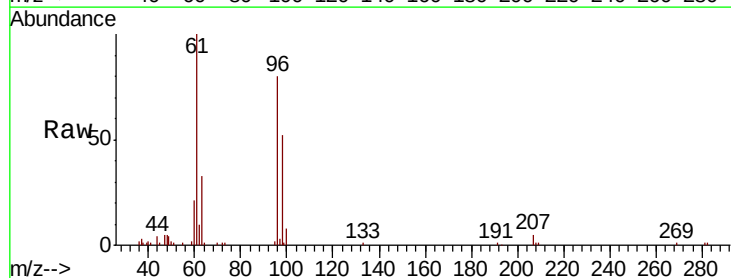
Tgt Ion: 96 Resp: 24312

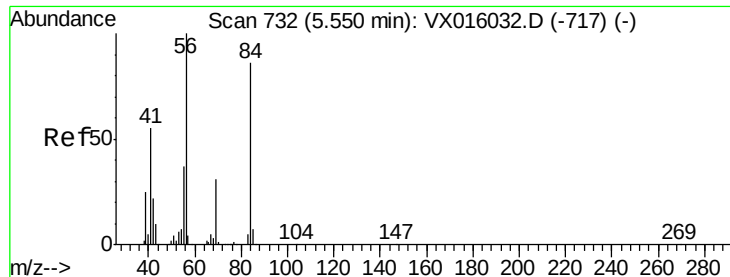
Ion Ratio Lower Upper

96 100

61 122.2 0.0 296.2

98 63.0 0.0 129.4

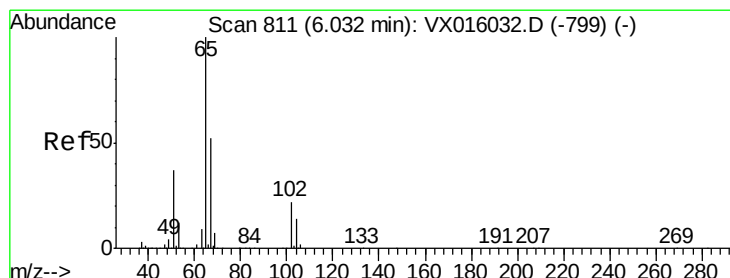
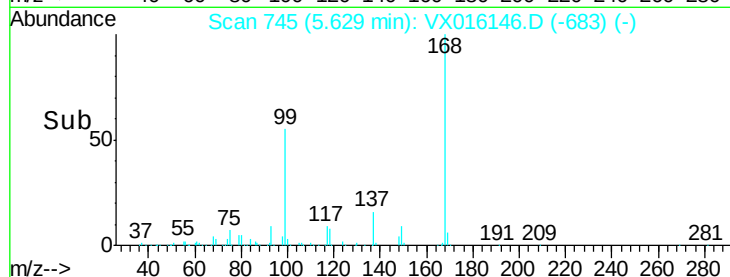
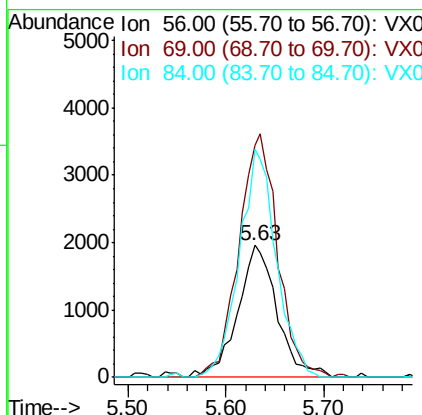
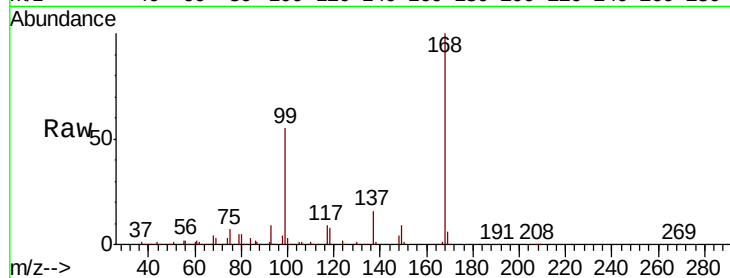




#31
Cyclohexane
Concen: 1.060 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

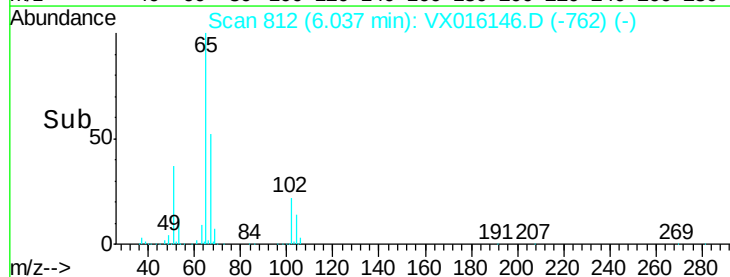
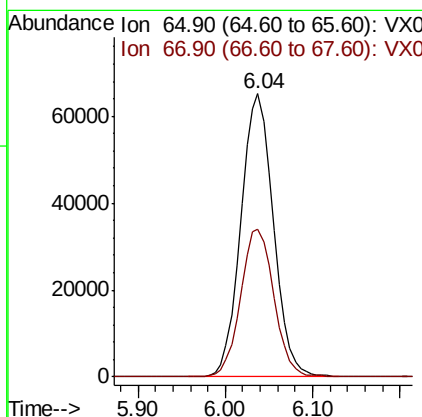
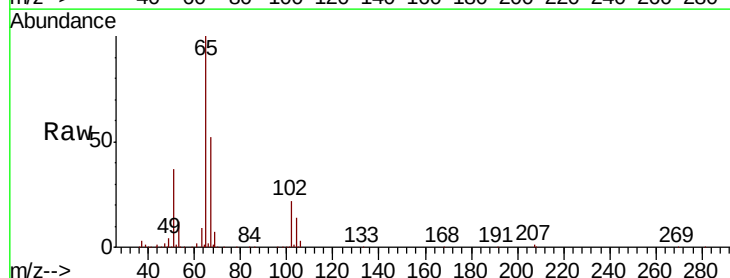
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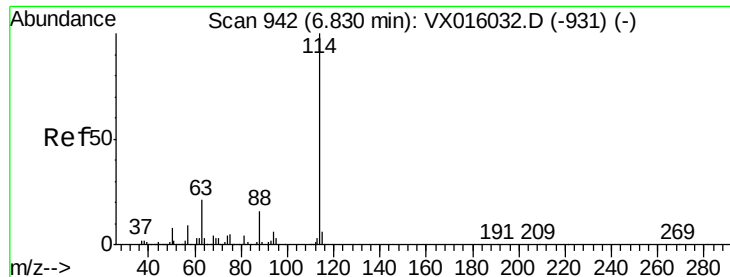
Tot Ion: 56 Resp: 5473
Ion Ratio Lower Upper
56 100
69 175.7 25.0 37.6#
84 172.8 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 45.319 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

Tgt Ion: 65 Resp: 168513
Ion Ratio Lower Upper
65 100
67 53.4 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: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

SS052OW376-200507

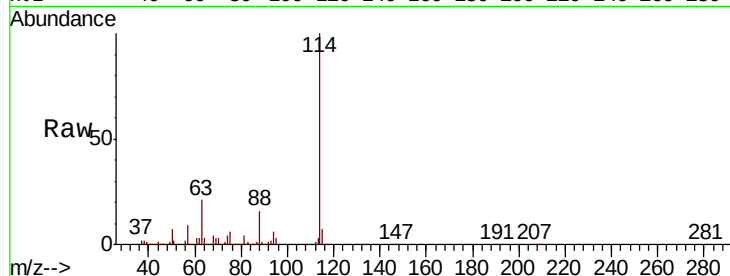
Tot Ion:114 Resp: 452576

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.8

88 15.9 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

250000

200000

150000

100000

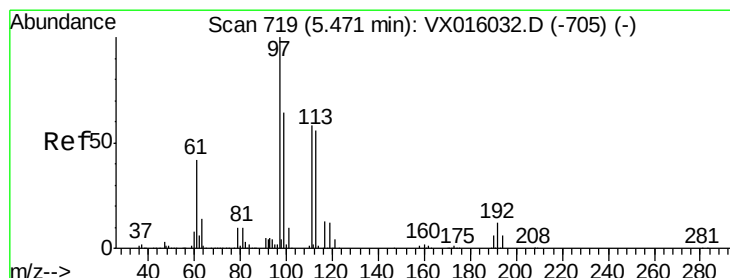
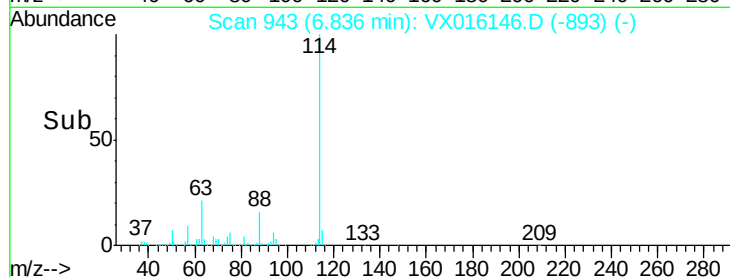
50000

0

6.84

6.80 6.84 6.90

Time-->



#35

Dibromofluoromethane

Concen: 47.037 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

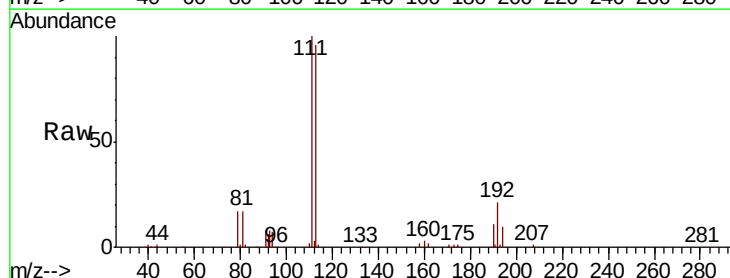
Tgt Ion:113 Resp: 134868

Ion Ratio Lower Upper

113 100

111 104.4 81.6 122.4

192 21.7 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

60000

50000

40000

30000

20000

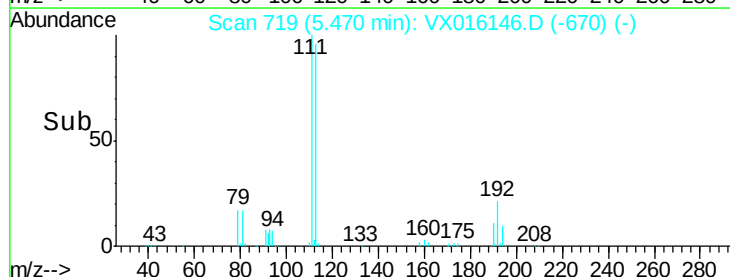
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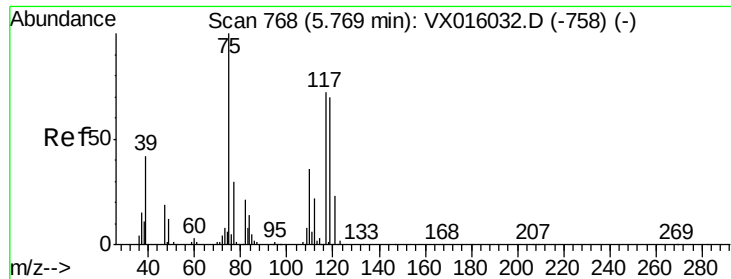
0

5.47

5.40 5.47 5.50

Time-->





#36

1,1-Dichloropropene

Concen: 4.650 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

SS052OW376-200507

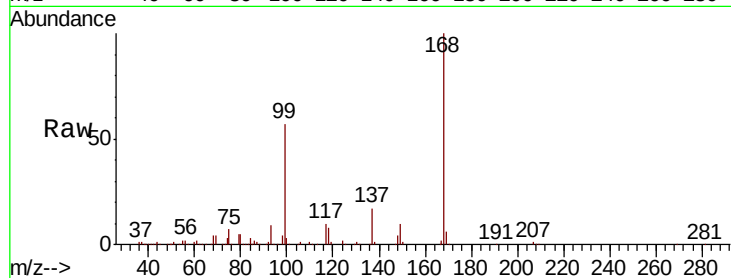
Tot Ion: 75 Resp: 20717

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

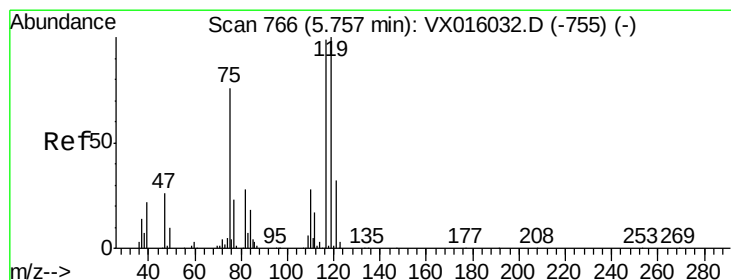
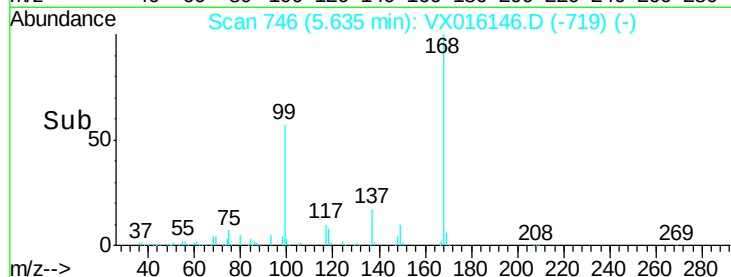
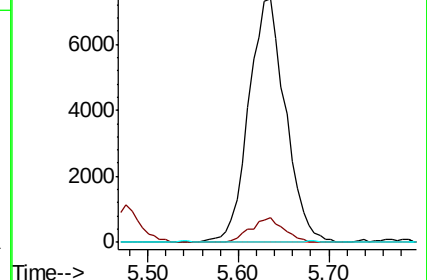
77 0.0 25.0 37.6#



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: 5.898 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

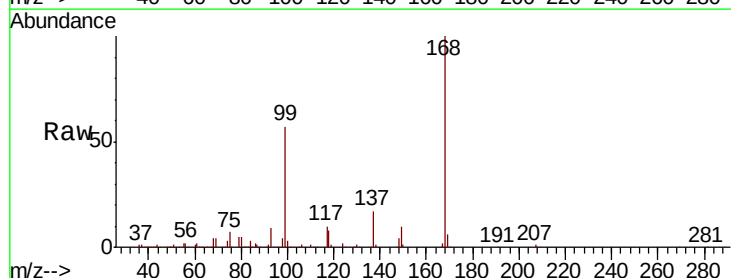
Tgt Ion: 117 Resp: 26706

Ion Ratio Lower Upper

117 100

119 5.3 80.3 120.5#

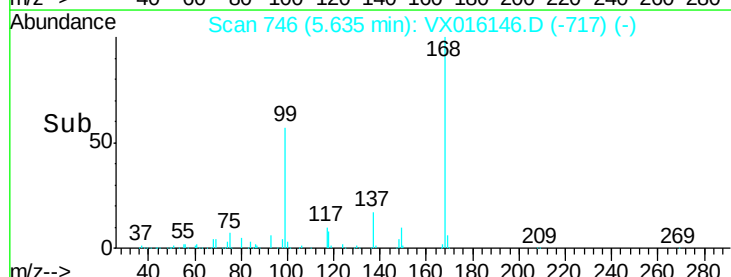
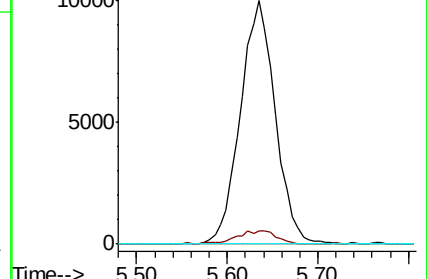
121 0.0 25.7 38.5#

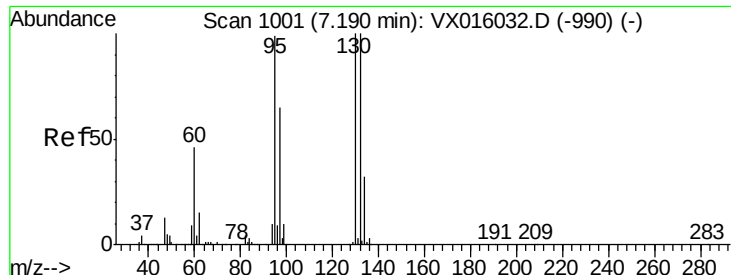


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 2.546 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

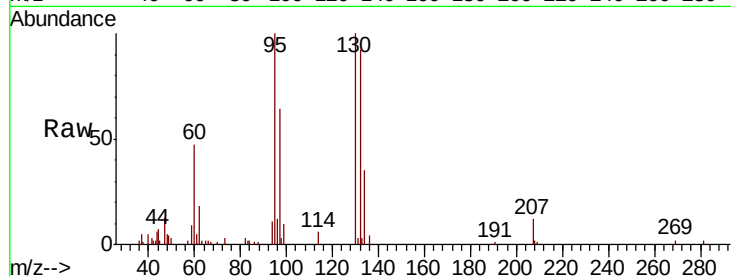
SS052OW376-200507

Tot Ion:130 Resp: 11790

Ion Ratio Lower Upper

130 100

95 99.9 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

6000

5000

4000

3000

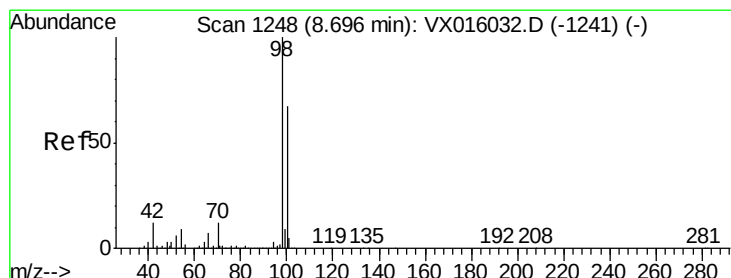
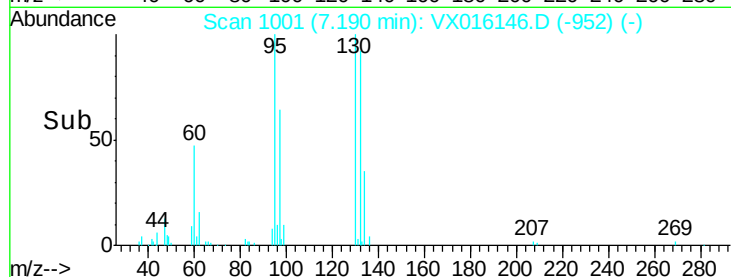
2000

1000

0

Time-->

7.10 7.15 7.20 7.25



#50

Toluene-d8

Concen: 51.087 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016146.D

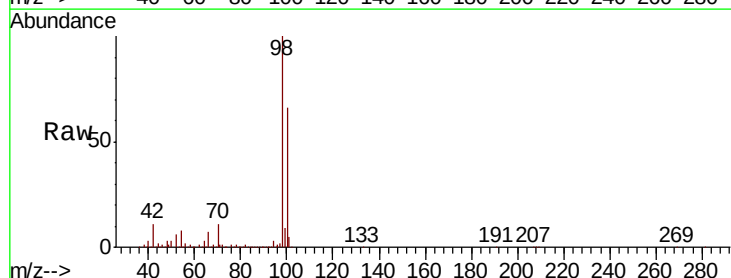
Acq: 11 May 2020 14:11

Tgt Ion: 98 Resp: 564400

Ion Ratio Lower Upper

98 100

100 67.1 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

300000

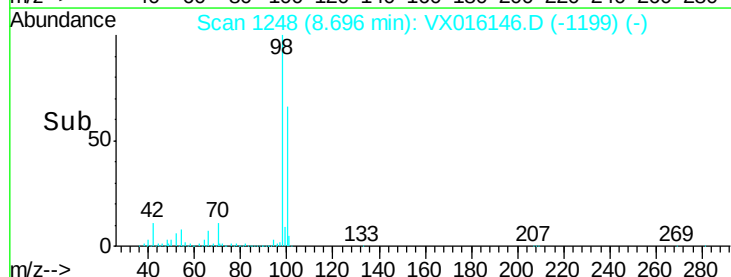
200000

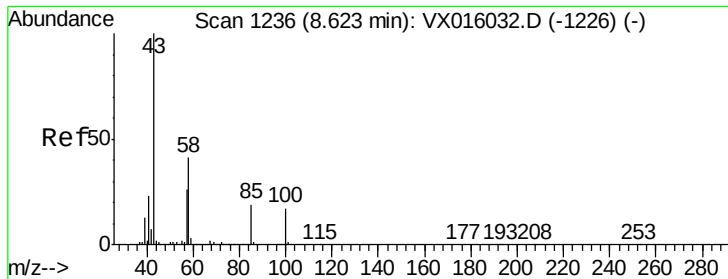
100000

0

Time-->

8.60 8.70 8.80





#51

4-Methyl-2-Pentanone

Concen: 0.451 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

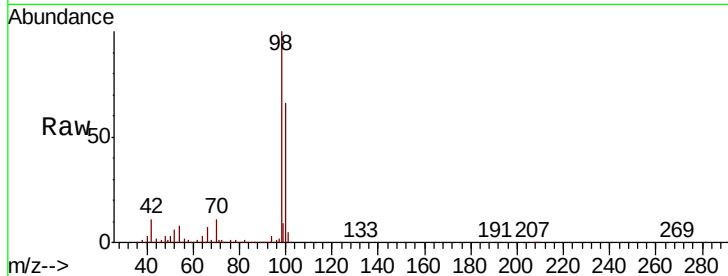
SS0520W376-200507

Tot Ion: 43 Resp: 2276

Ion Ratio Lower Upper

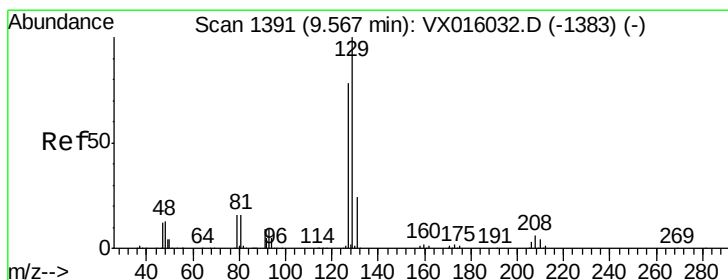
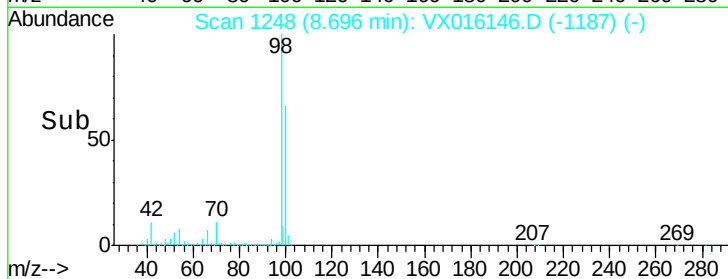
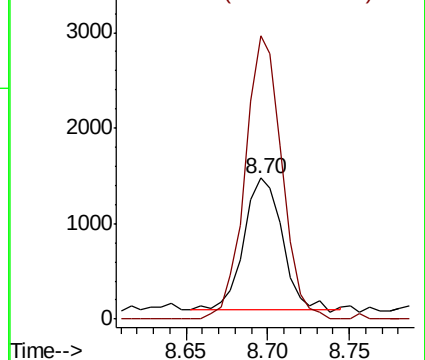
43 100

58 204.3 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 1.626 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016146.D

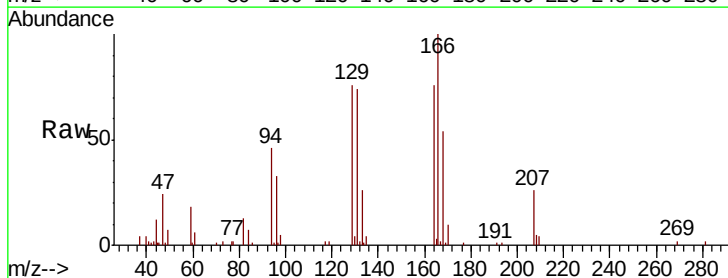
Acq: 11 May 2020 14:11

Tgt Ion: 129 Resp: 5723

Ion Ratio Lower Upper

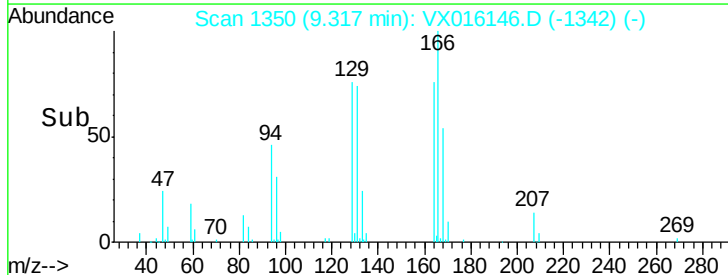
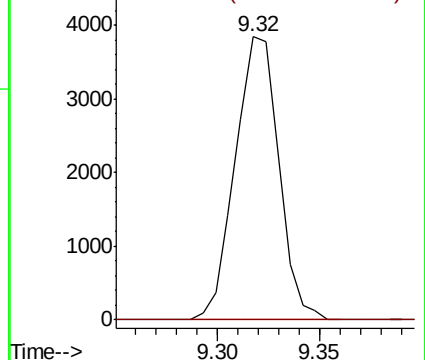
129 100

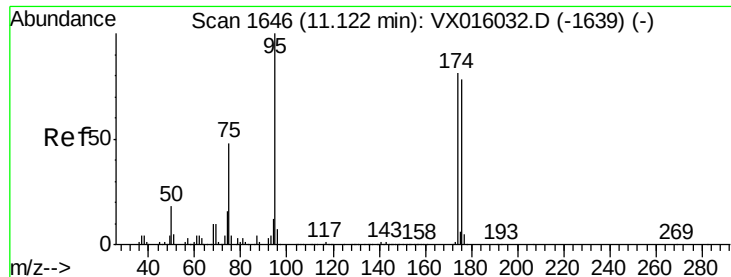
127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

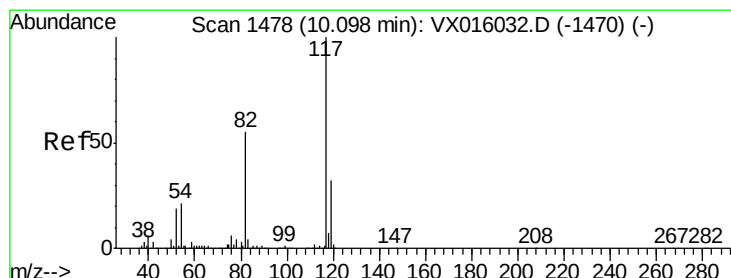
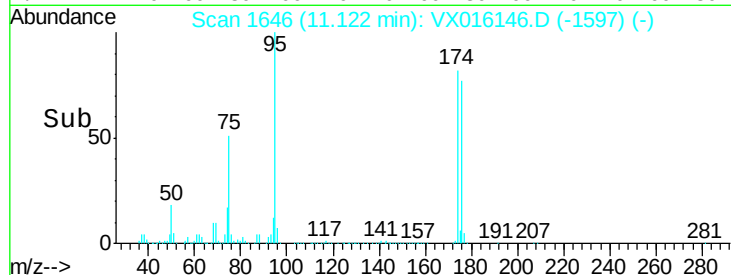
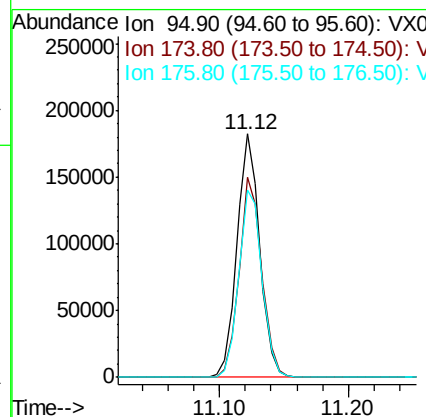
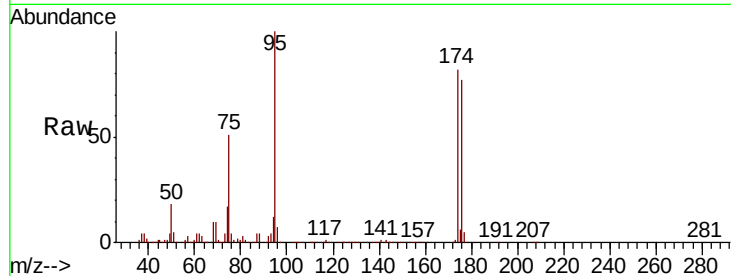




#62
4-Bromofluorobenzene
Concen: 53.469 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

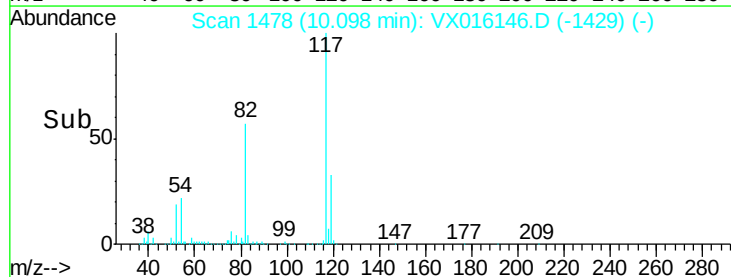
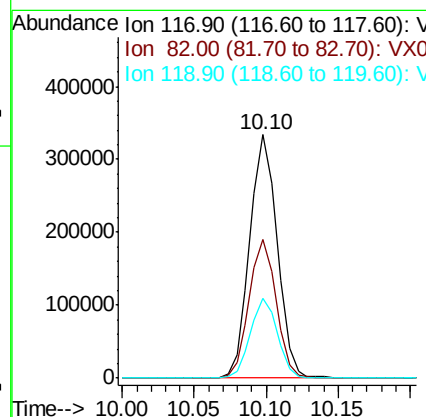
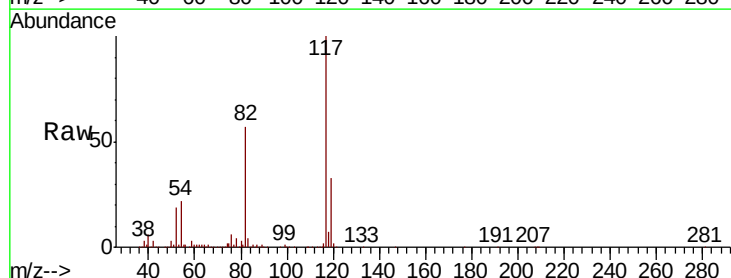
Instrument :
MSVOA_X
ClientSampleId :
SS052OW376-200507

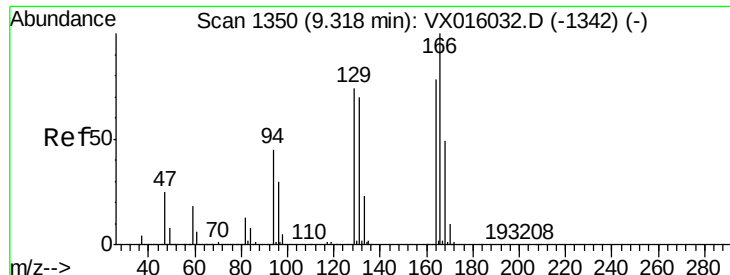
Tot Ion: 95 Resp: 224681
Ion Ratio Lower Upper
95 100
174 81.7 0.0 159.4
176 79.0 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

Tgt Ion: 117 Resp: 441043
Ion Ratio Lower Upper
117 100
82 56.8 44.4 66.6
119 32.8 25.5 38.3

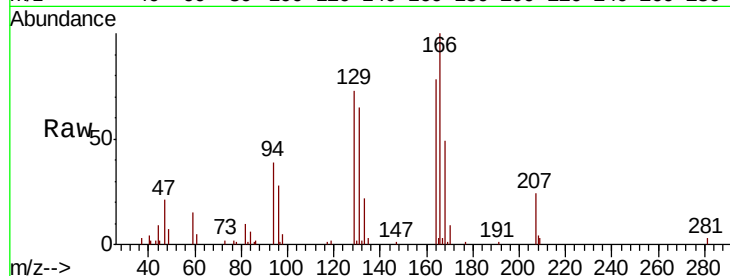




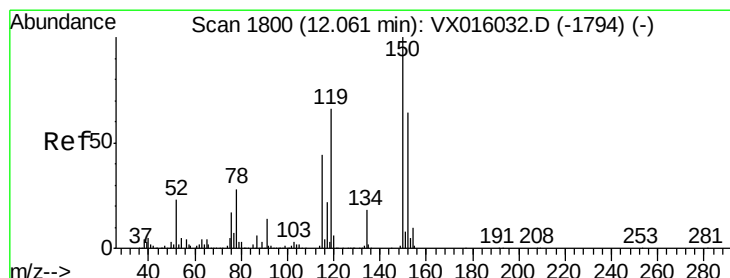
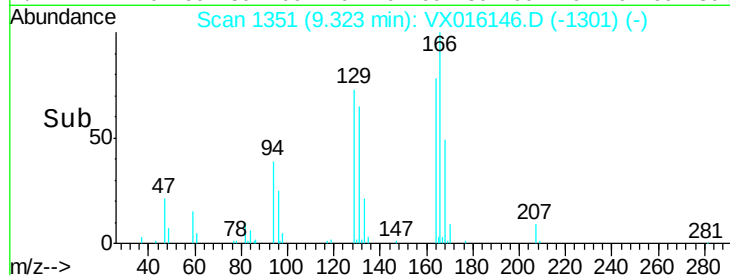
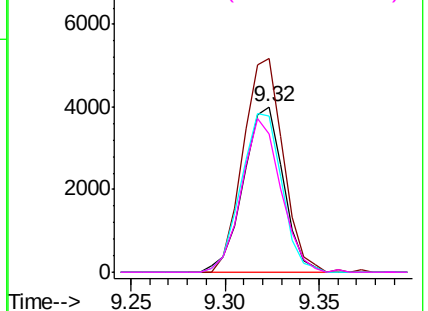
#64
Tetrachloroethene
Concen: 1.086 ug/l
RT: 9.32 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

Instrument :
MSVOA_X
ClientSampleId :
SS052OW376-200507

Tot Ion:164 Resp: 5878
Ion Ratio Lower Upper
164 100
166 129.0 102.9 154.3
129 94.3 76.1 114.1
131 83.8 71.9 107.9

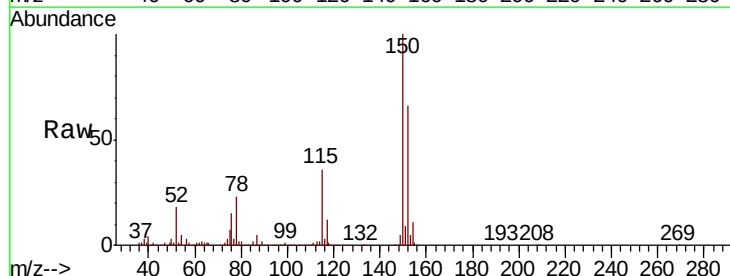


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

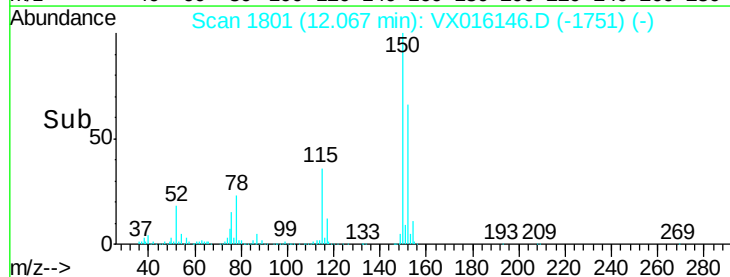
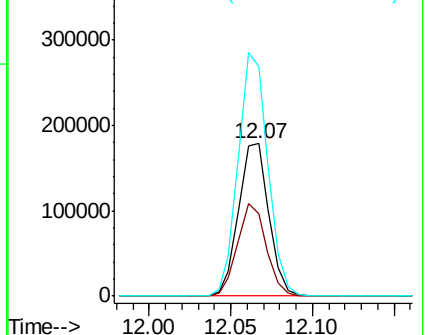


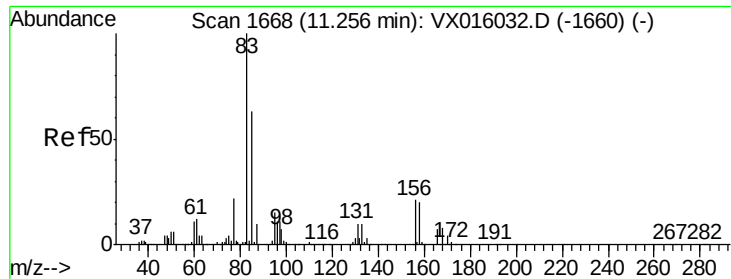
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016146.D
Acq: 11 May 2020 14:11

Tgt Ion:152 Resp: 231508
Ion Ratio Lower Upper
152 100
115 57.9 41.3 124.1
150 156.2 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: 2.081 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

SS052OW376-200507

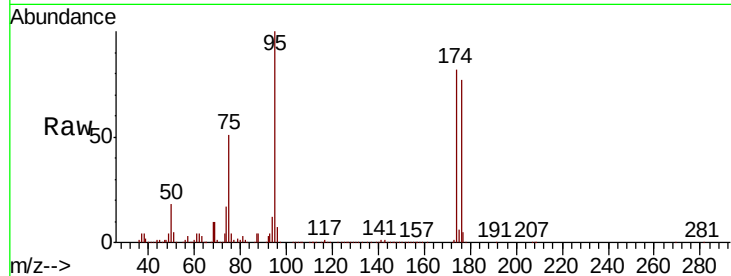
Tot Ion: 83 Resp: 102

Ion Ratio Lower Upper

83 100

131 286.3 5.1 15.4#

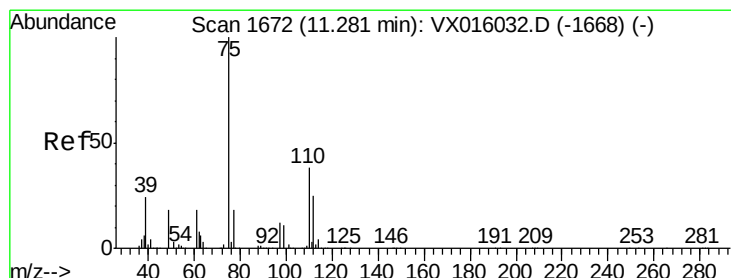
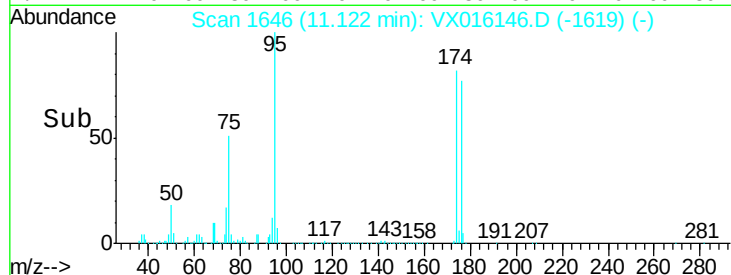
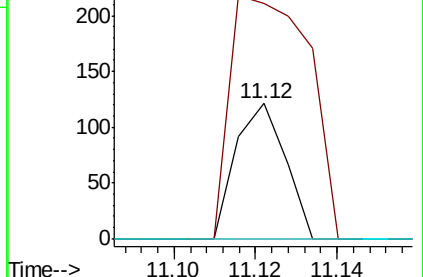
85 0.0 32.0 96.0#



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: 21.329 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016146.D

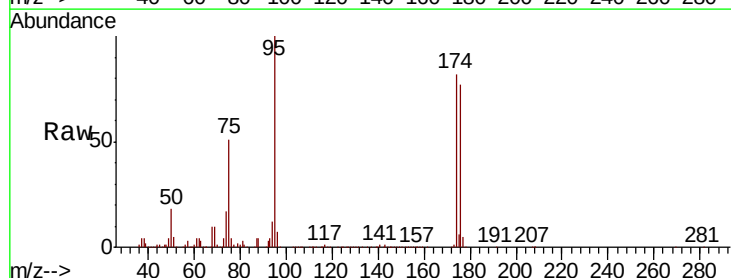
Acq: 11 May 2020 14:11

Tgt Ion: 75 Resp: 112053

Ion Ratio Lower Upper

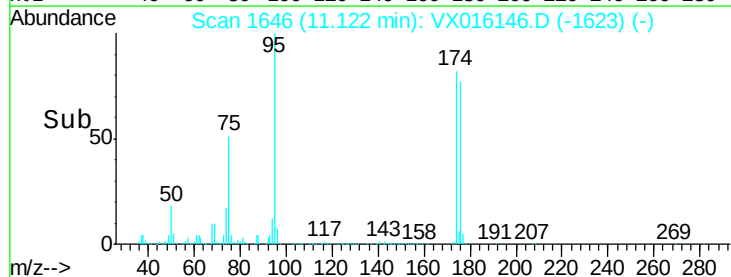
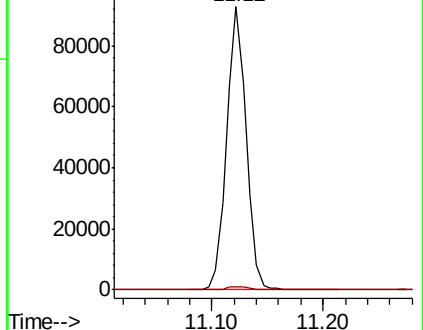
75 100

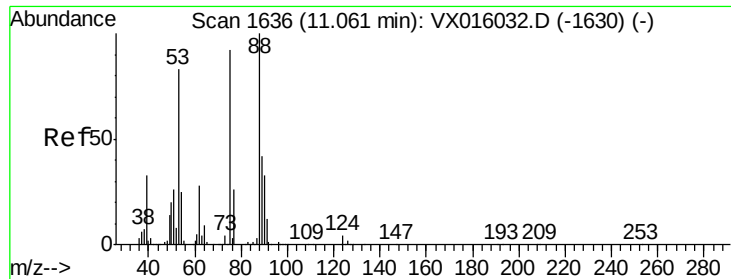
77 1.4 21.2 63.6#



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: 50.830 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

Instrument :

MSVOA_X

ClientSampleId :

SS052OW376-200507

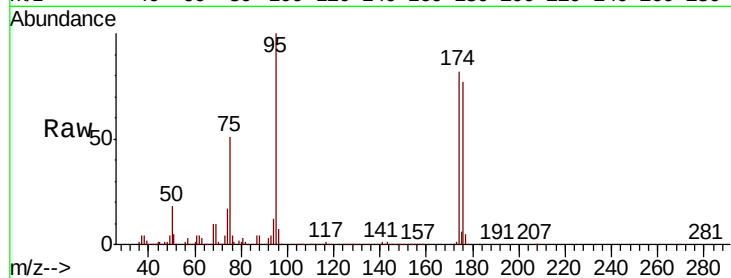
Tot Ion: 75 Resp: 112053

Ion Ratio Lower Upper

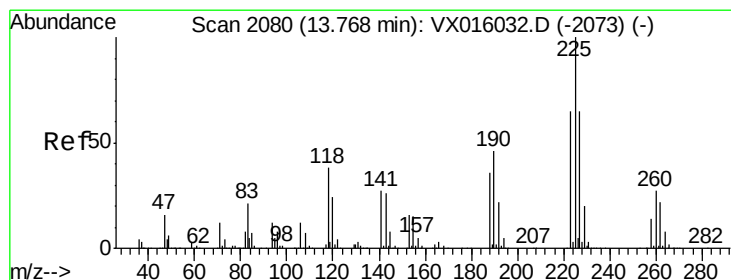
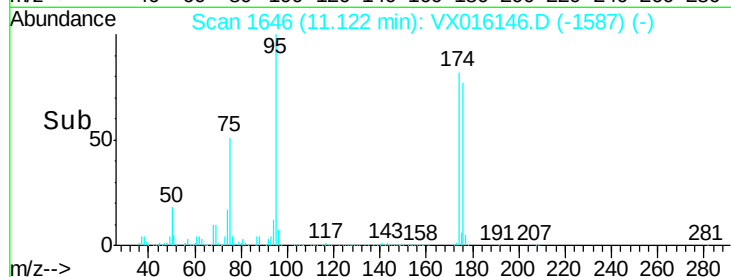
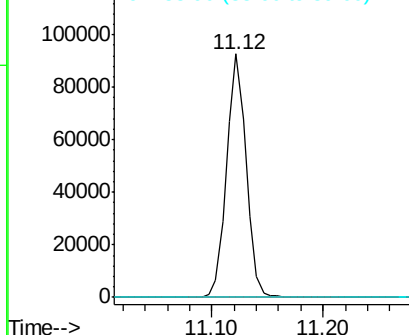
75 100

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



#94

Hexachlorobutadiene

Concen: 0.566 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016146.D

Acq: 11 May 2020 14:11

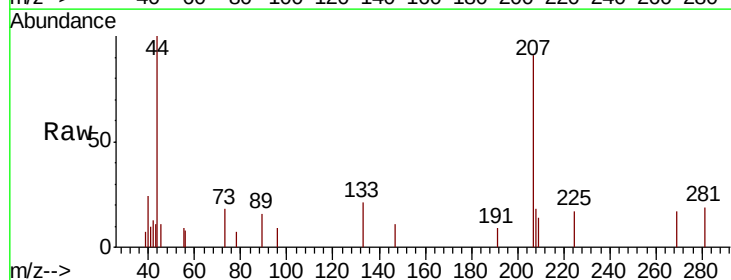
Tgt Ion: 225 Resp: 102

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.9#

227 17.6 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

