

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\
 Data File : VX016282.D
 Acq On : 15 May 2020 15:48
 Operator : JC/SP
 Sample : L2649-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

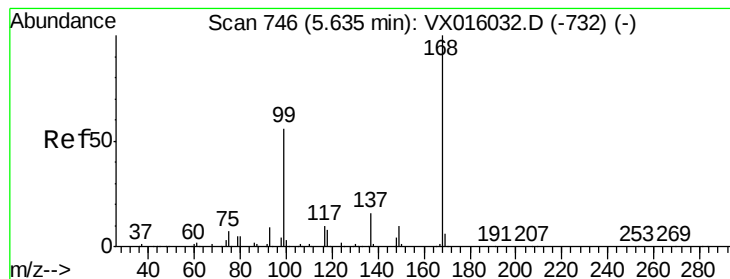
Quant Time: May 16 06:43:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	240735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	403144	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	398034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	207195	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	149540	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	5.47	113	120796	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	8.70	98	501122	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.12	95	203623	54.40	ug/l	0.00
Spiked Amount			Recovery	=	108.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.39	50	26895	9.089	ug/l #	43
4) Vinyl Chloride	1.39	62	4573933	1448.746	ug/l	96
11) Tert butyl alcohol	3.01	59	1177	1.469	ug/l	96
12) 1,1-Dichloroethene	2.36	96	3749	1.498	ug/l	98
13) Acrolein	2.28	56	399	0.796	ug/l #	14
16) Acetone	2.42	43	4886	3.457	ug/l	100
21) trans-1,2-Dichloroethene	3.14	96	32614	11.695	ug/l	99
25) 2-Butanone	4.65	43	573	0.252	ug/l #	72
27) cis-1,2-Dichloroethene	4.57	96	847740	278.066	ug/l	88
29) Tetrahydrofuran	5.10	42	878	0.582	ug/l #	31
36) 1,1-Dichloropropene	5.63	75	17626	4.442	ug/l #	49
38) Carbon Tetrachloride	5.64	117	23132	5.735	ug/l #	14
40) Benzene	6.12	78	2677	0.231	ug/l #	81
68) m/p-Xylenes	10.34	106	1248	0.224	ug/l	87
69) o-Xylene	10.68	106	1956	0.365	ug/l	98
73) Isopropylbenzene	11.01	105	3074	0.204	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.13	83	186	2.115	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	99133	21.084	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	99133	50.246	ug/l #	13
90) Hexachloroethane	12.68	117	511	0.216	ug/l #	10
94) Hexachlorobutadiene	13.77	225	55	0.549	ug/l #	18

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

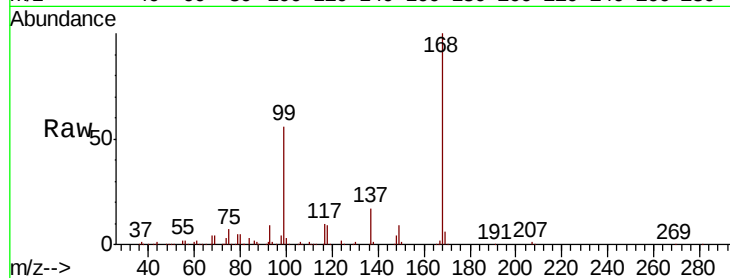
ClientSampleId :

Tot Ion:168 Resp: 240735

Ion Ratio Lower Upper

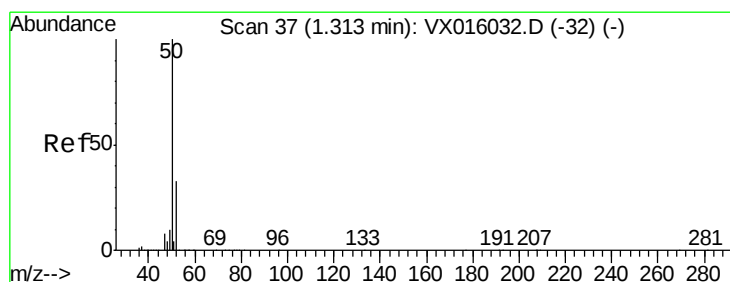
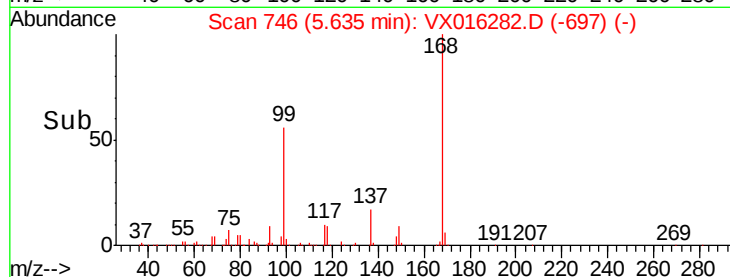
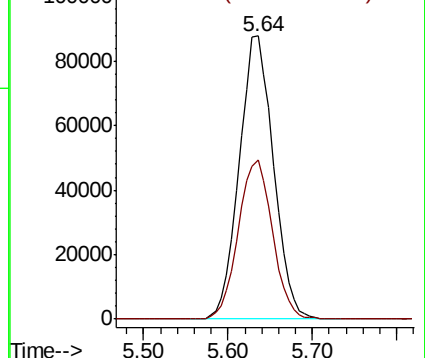
168 100

99 56.4 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: 9.089 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.08 min

Lab File: VX016282.D

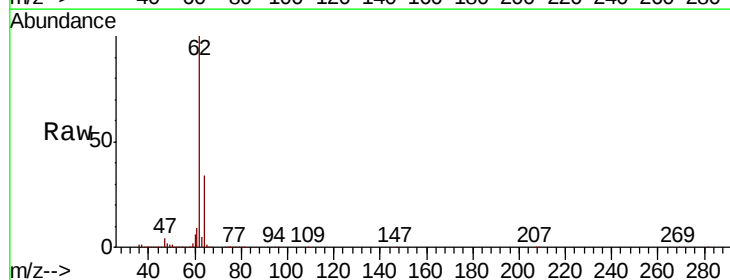
Acq: 15 May 2020 15:48

Tgt Ion: 50 Resp: 26895

Ion Ratio Lower Upper

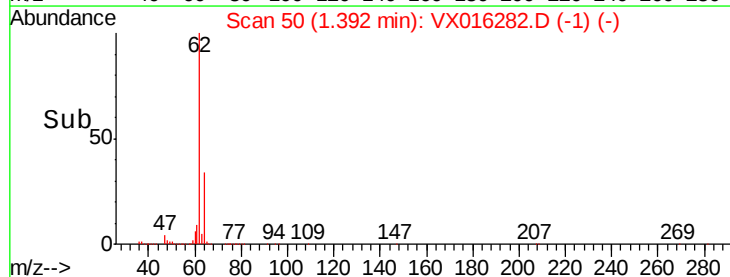
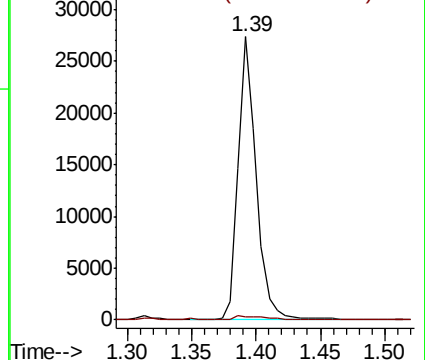
50 100

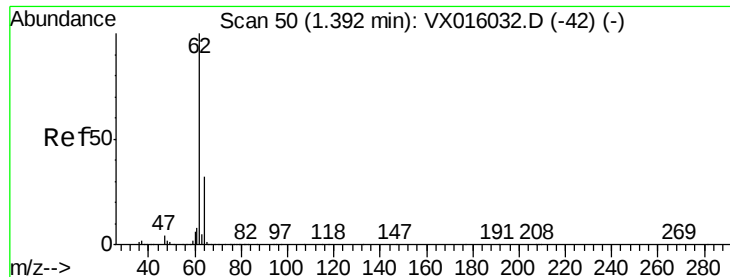
52 0.7 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 1448.746 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

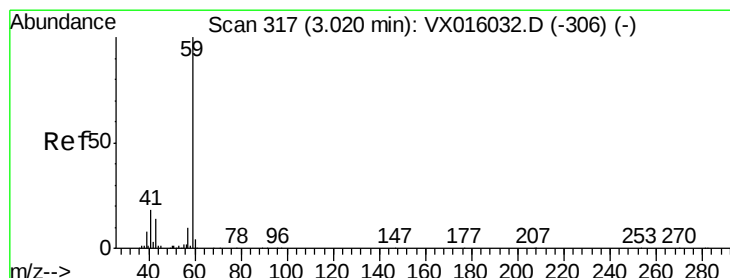
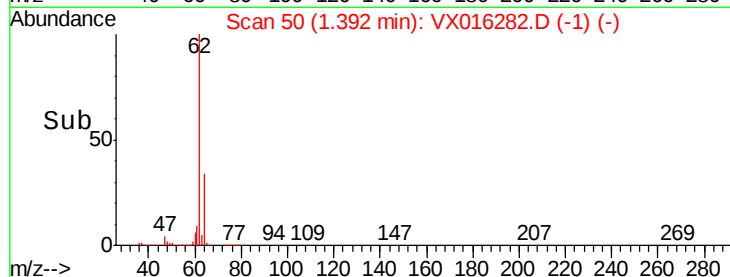
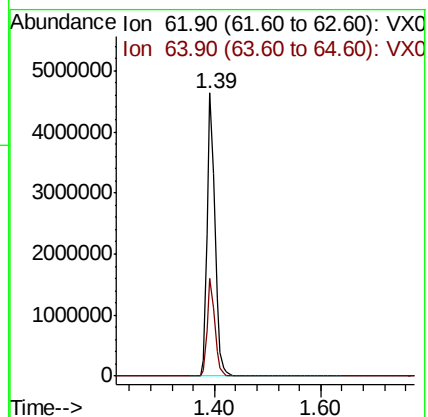
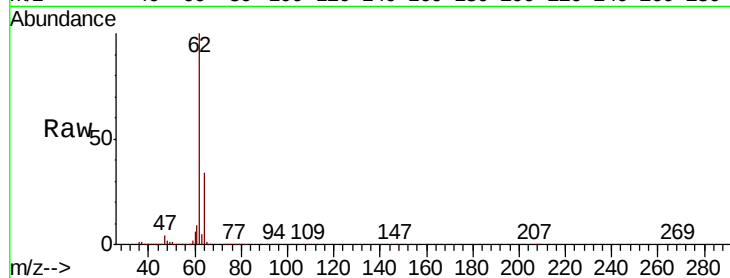
ClientSampleId :

Tot Ion: 62 Resp: 4573933

Ion Ratio Lower Upper

62 100

64 34.5 25.7 38.5



#11

Tert butyl alcohol

Concen: 1.469 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016282.D

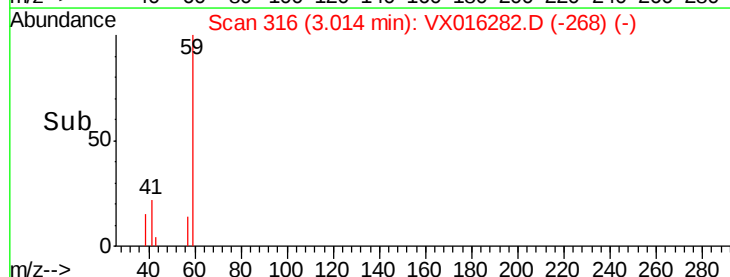
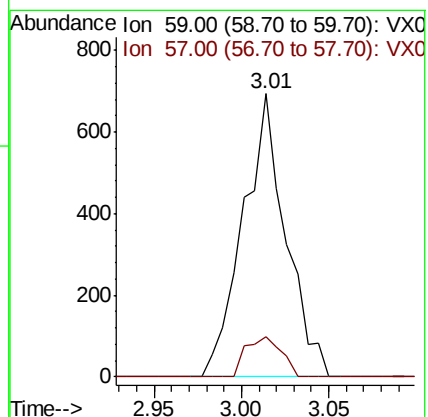
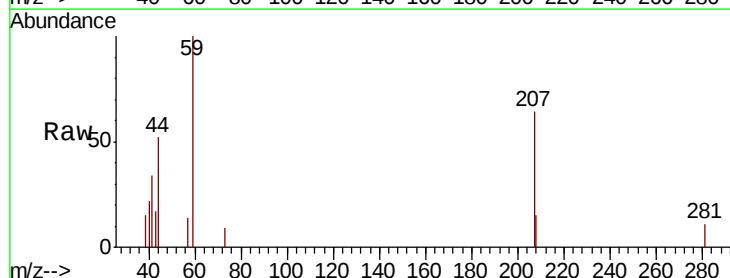
Acq: 15 May 2020 15:48

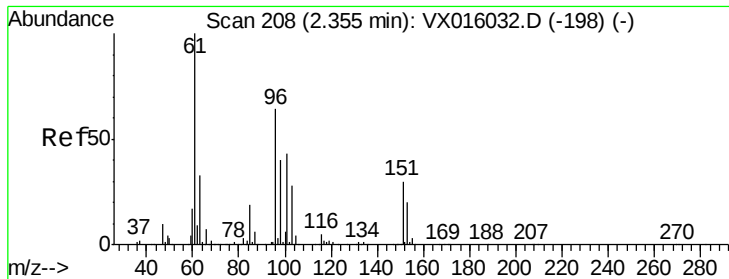
Tgt Ion: 59 Resp: 1177

Ion Ratio Lower Upper

59 100

57 11.7 8.2 12.4





#12

1,1-Dichloroethene

Concen: 1.498 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

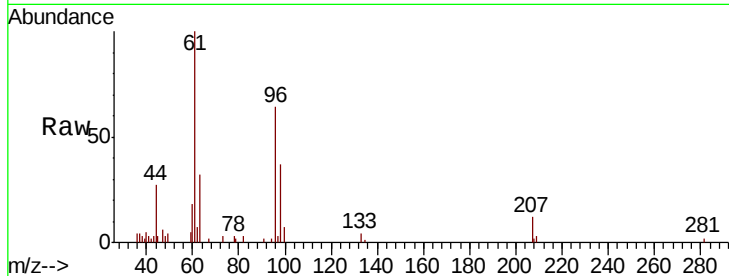
Tot Ion: 96 Resp: 3749

Ion Ratio Lower Upper

96 100

61 157.2 124.8 187.2

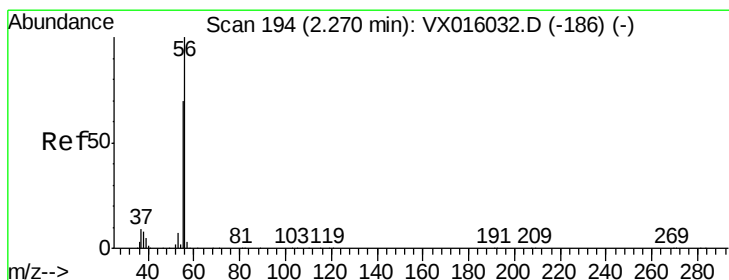
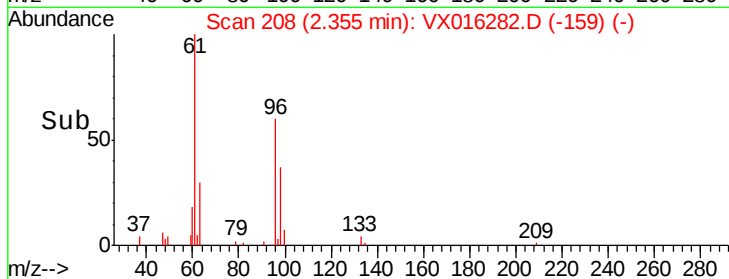
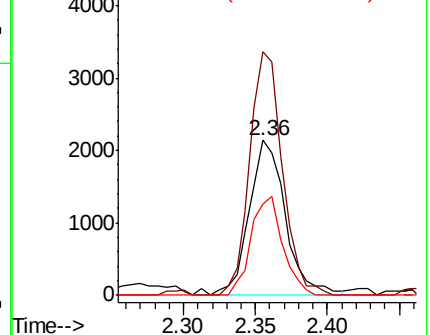
98 58.9 49.7 74.5



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: 0.796 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX016282.D

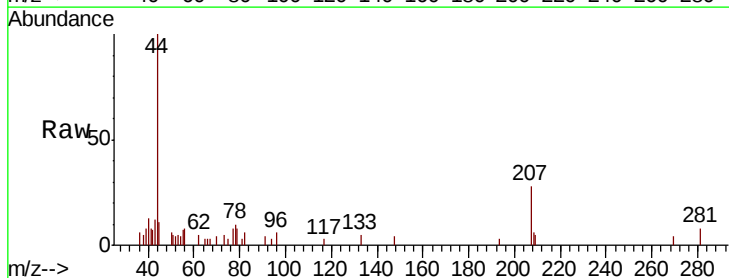
Acq: 15 May 2020 15:48

Tgt Ion: 56 Resp: 399

Ion Ratio Lower Upper

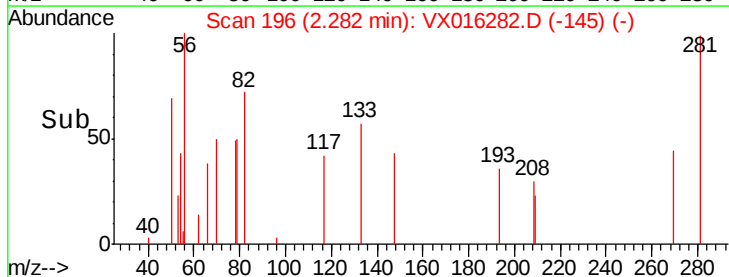
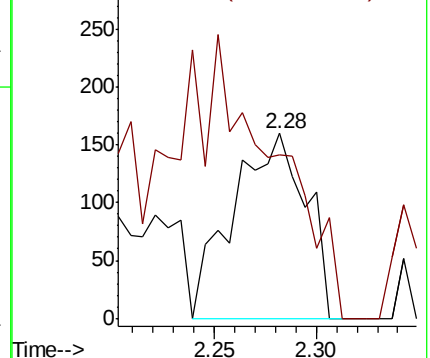
56 100

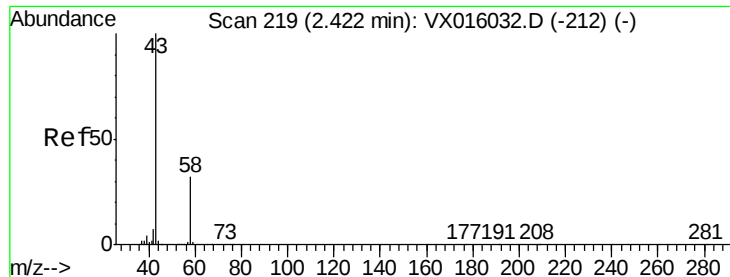
55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 3.457 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

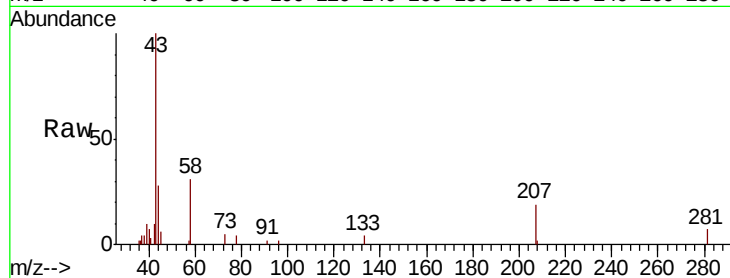
ClientSampleId :

Tot Ion: 43 Resp: 4886

Ion Ratio Lower Upper

43 100

58 31.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

3000

2500

2000

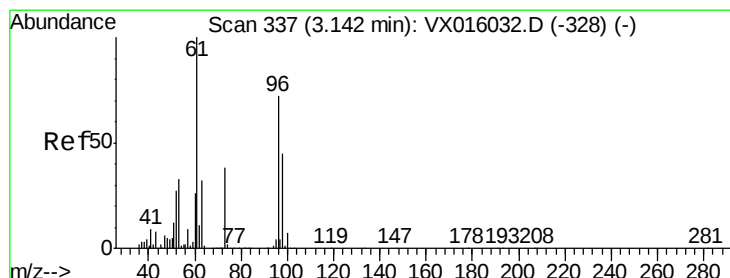
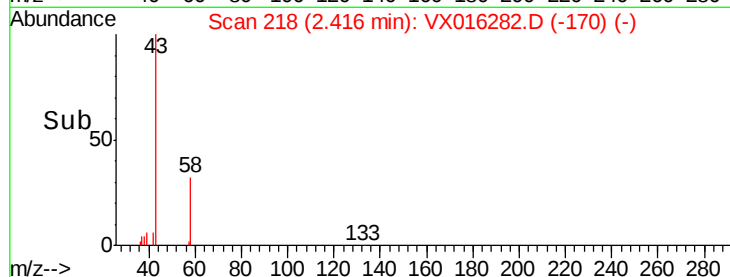
1500

1000

500

0

Time--> 2.35 2.40 2.45



#21

trans-1,2-Dichloroethene

Concen: 11.695 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

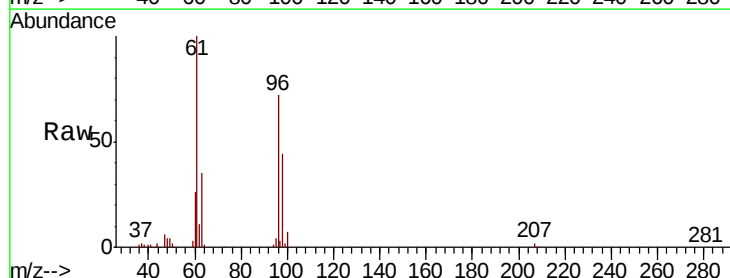
Tgt Ion: 96 Resp: 32614

Ion Ratio Lower Upper

96 100

61 138.2 111.2 166.8

98 61.2 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

30000

25000

20000

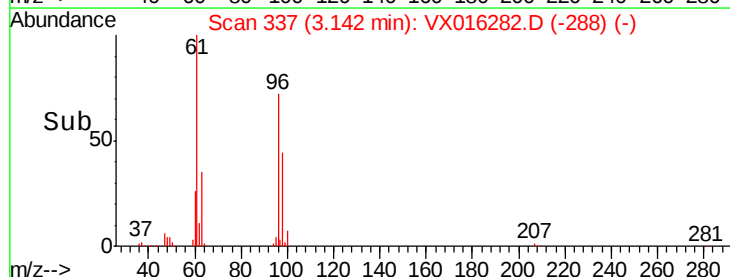
15000

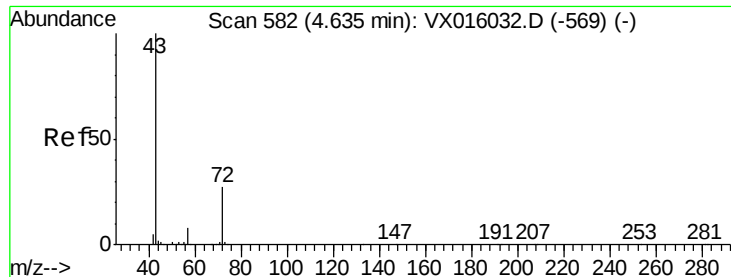
10000

5000

0

Time--> 3.10 3.20 3.30





#25

2-Butanone

Concen: 0.252 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

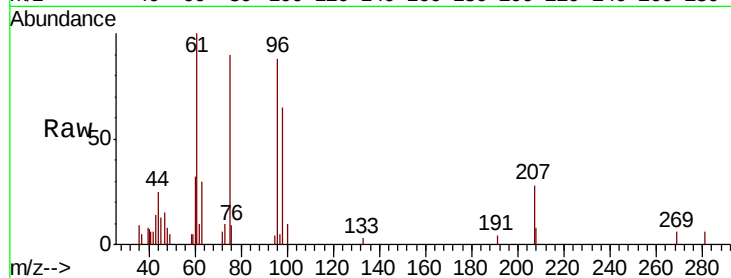
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 573

Ion Ratio Lower Upper

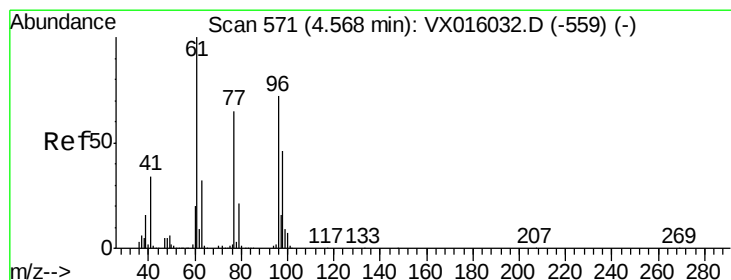
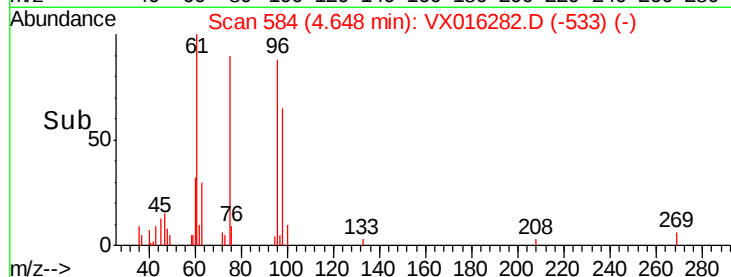
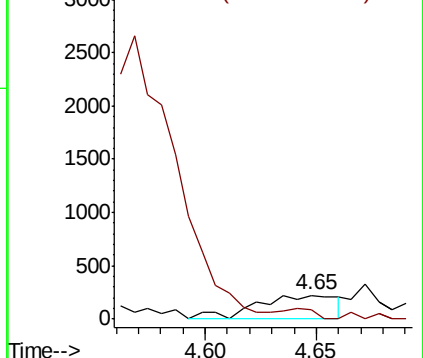
43 100

72 41.7 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 278.066 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

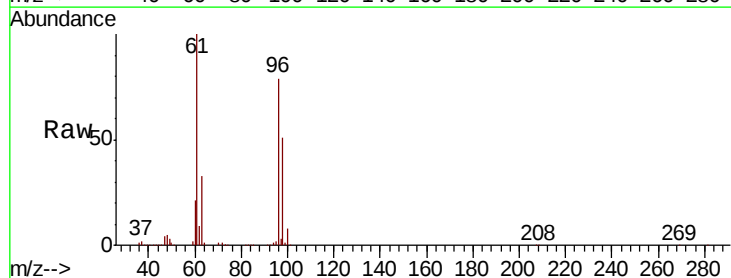
Tgt Ion: 96 Resp: 847740

Ion Ratio Lower Upper

96 100

61 126.2 0.0 296.2

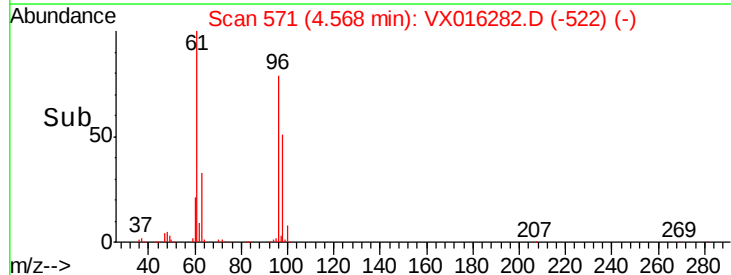
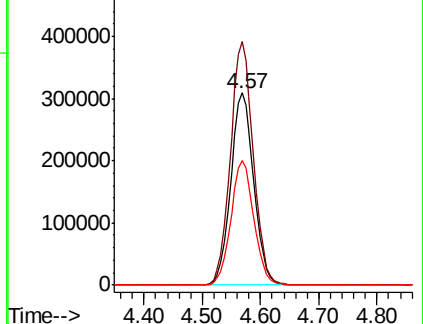
98 64.4 0.0 129.4

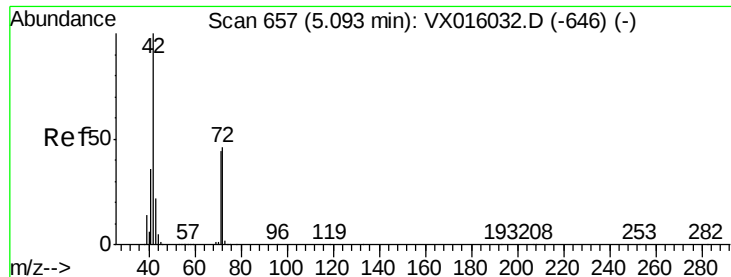


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

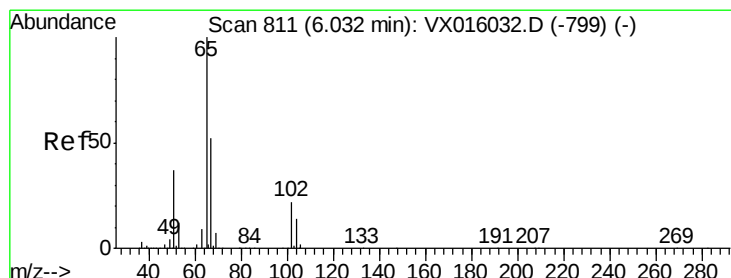
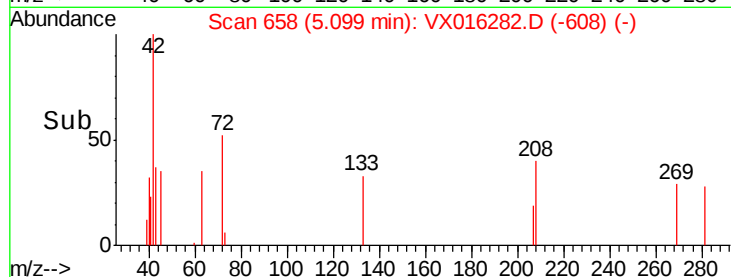
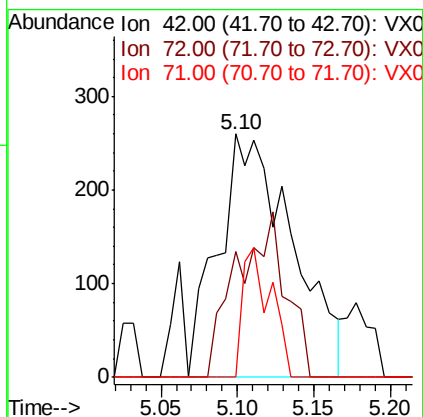
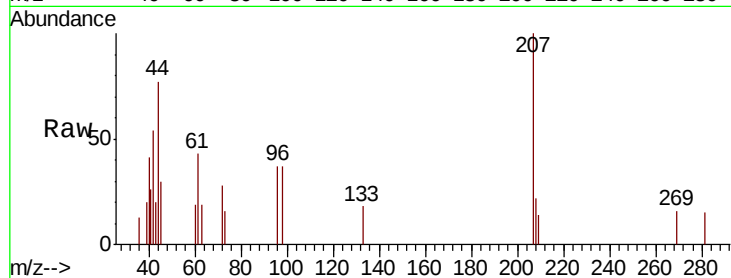




#29
Tetrahydrofuran
Concen: 0.582 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX016282.D
Acq: 15 May 2020 15:48

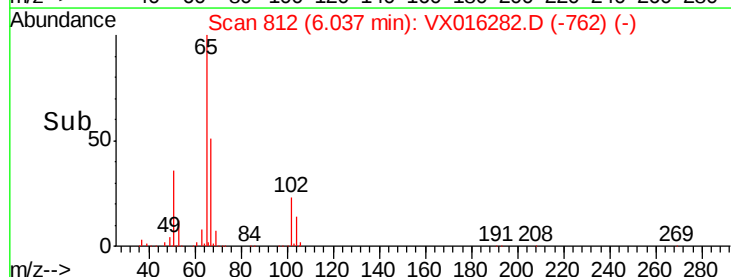
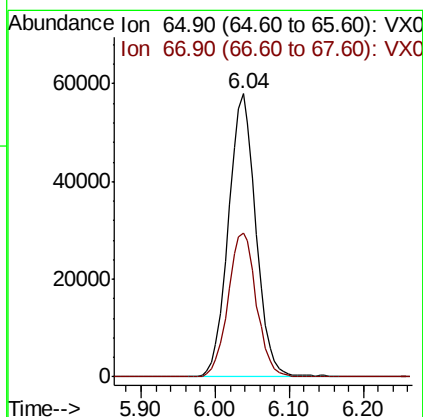
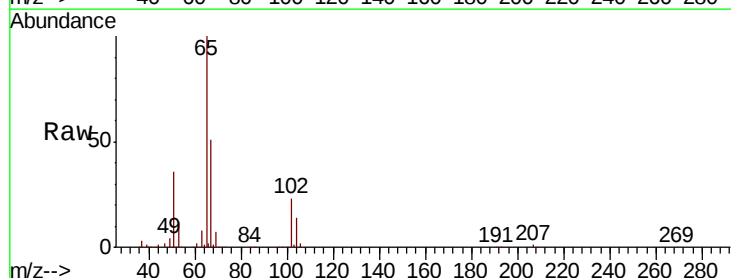
Instrument :
MSVOA_X
ClientSampled :

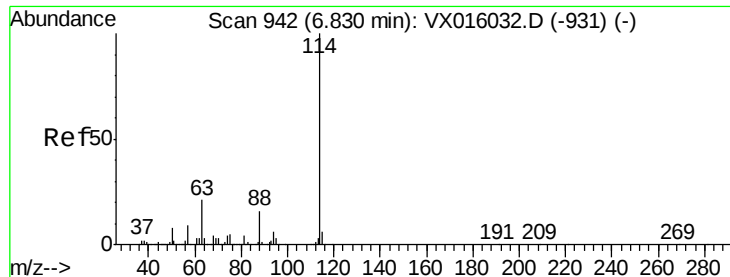
Tot Ion: 42 Resp: 878
Ion Ratio Lower Upper
42 100
72 0.0 37.1 55.7#
71 0.0 34.5 51.7#



#33
1,2-Dichloroethane-d4
Concen: 47.206 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016282.D
Acq: 15 May 2020 15:48

Tgt Ion: 65 Resp: 149540
Ion Ratio Lower Upper
65 100
67 52.5 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: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

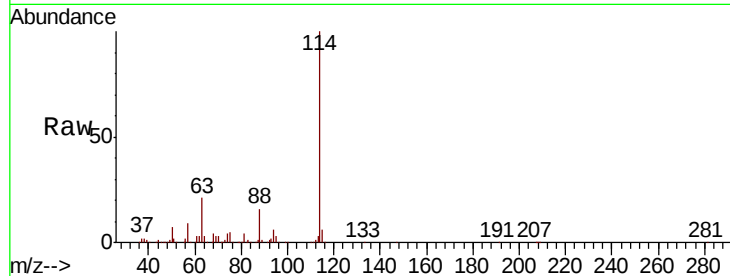
Tot Ion:114 Resp: 403144

Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.8

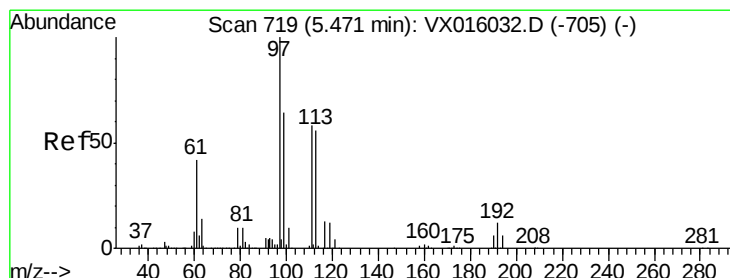
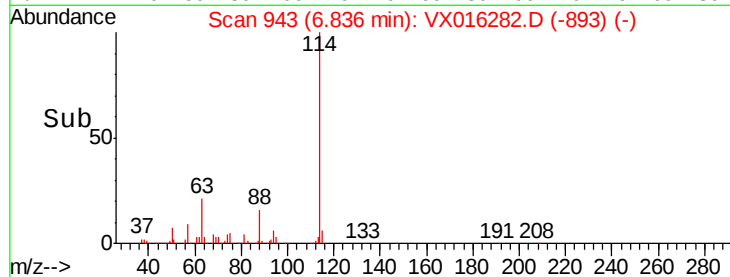
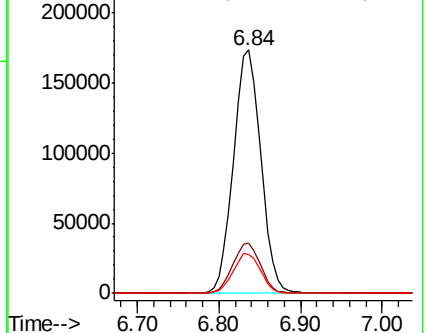
88 16.1 0.0 31.4



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: 47.295 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

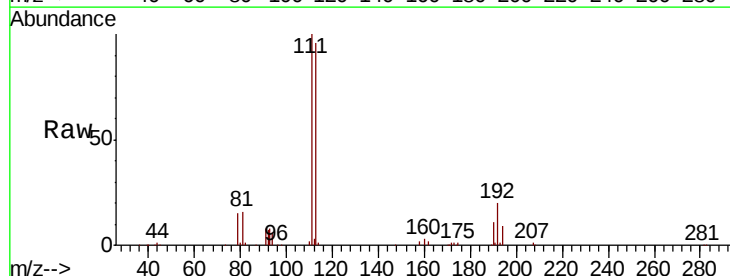
Tgt Ion:113 Resp: 120796

Ion Ratio Lower Upper

113 100

111 103.8 81.6 122.4

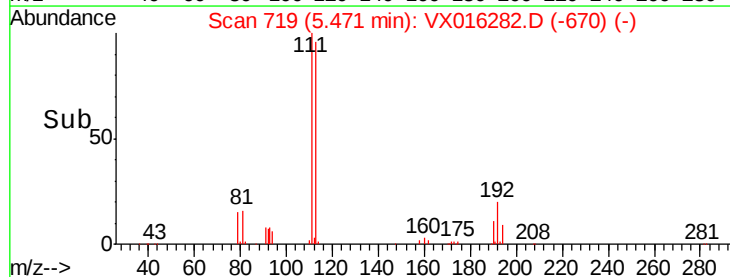
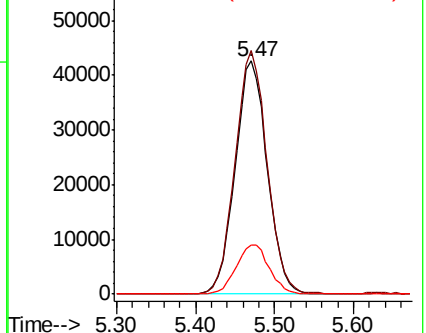
192 21.6 17.0 25.4

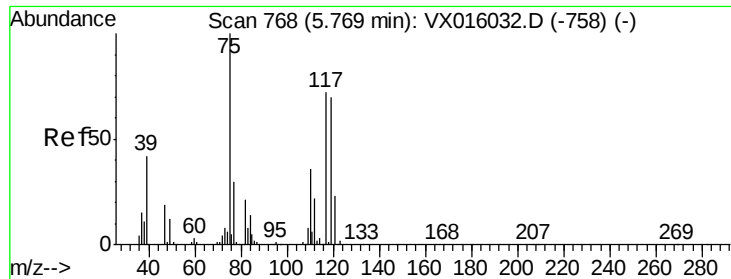


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.442 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

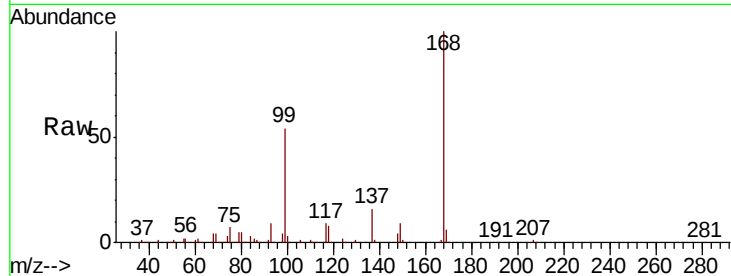
Tot Ion: 75 Resp: 17626

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

77 0.0 25.0 37.6#



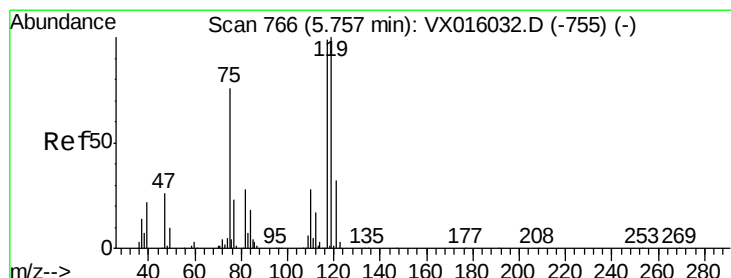
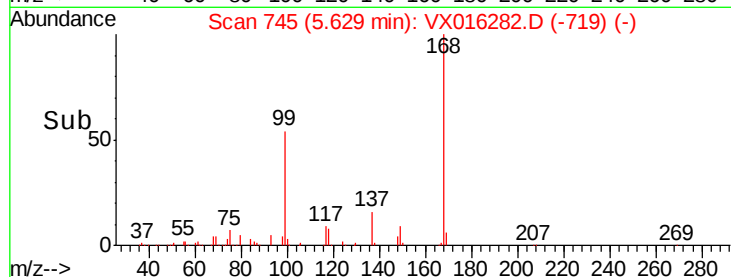
Abundance Ion 74.90 (74.60 to 75.60): VX016032.D (-758) (-)

Ion 109.90 (109.60 to 110.60): VX016032.D (-758) (-)

Ion 76.90 (76.60 to 77.60): VX016032.D (-758) (-)

5.63

Time-->



#38

Carbon Tetrachloride

Concen: 5.735 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

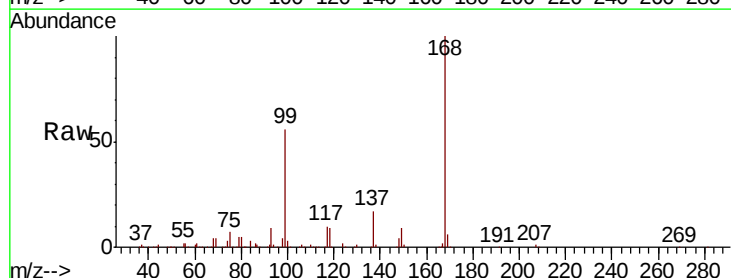
Tgt Ion: 117 Resp: 23132

Ion Ratio Lower Upper

117 100

119 4.8 80.3 120.5#

121 0.0 25.7 38.5#



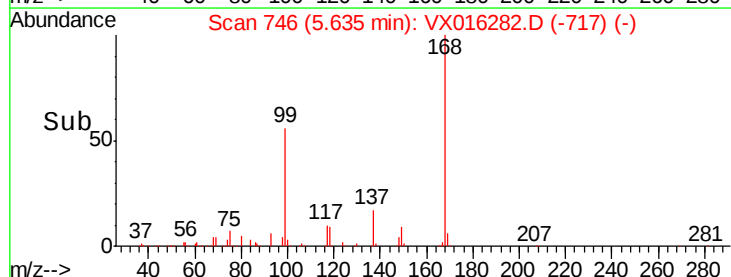
Abundance Ion 116.80 (116.50 to 117.50): VX016032.D (-755) (-)

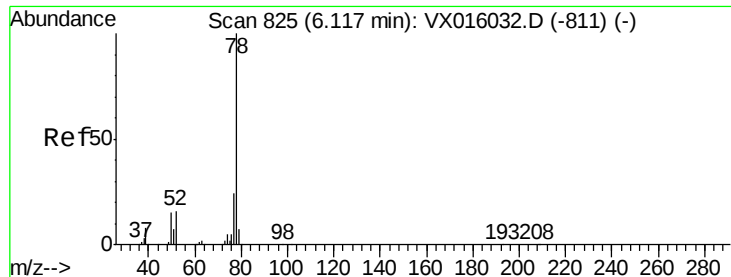
Ion 118.80 (118.50 to 119.50): VX016032.D (-755) (-)

Ion 120.80 (120.50 to 121.50): VX016032.D (-755) (-)

5.64

Time-->





#40

Benzene

Concen: 0.231 ug/l

RT: 6.12 min Scan# 825

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

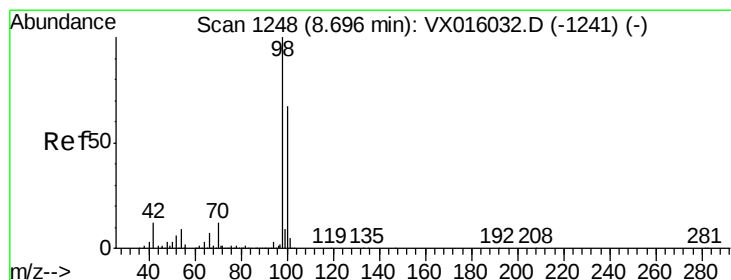
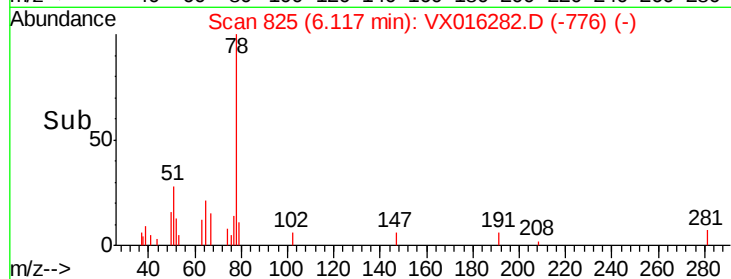
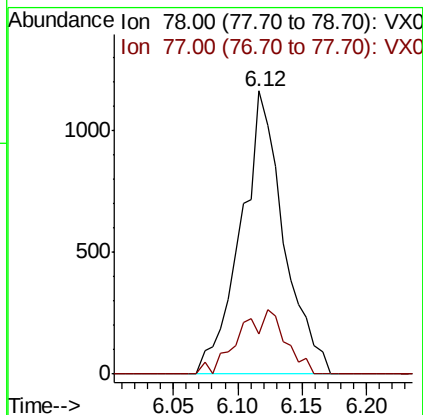
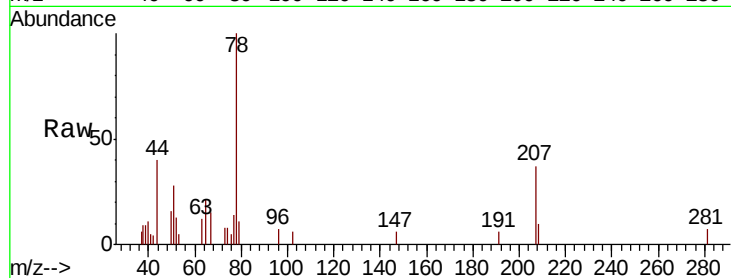
ClientSampleId :

Tot Ion: 78 Resp: 2677

Ion Ratio Lower Upper

78 100

77 14.3 19.0 28.4#



#50

Toluene-d8

Concen: 50.921 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016282.D

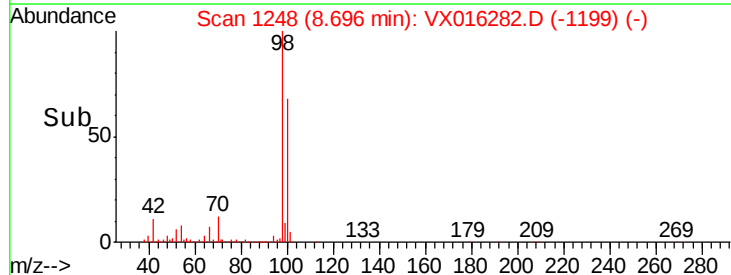
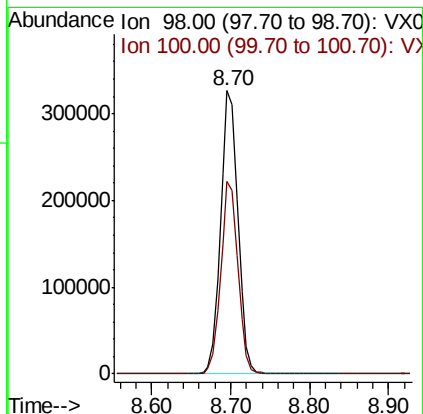
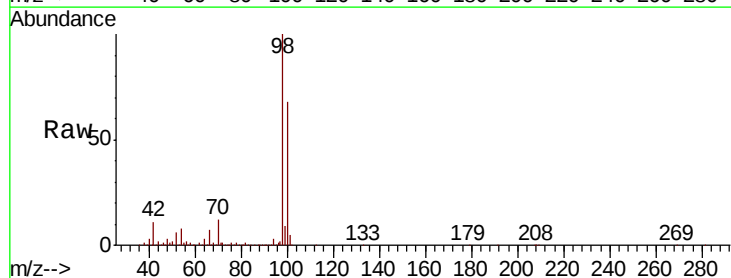
Acq: 15 May 2020 15:48

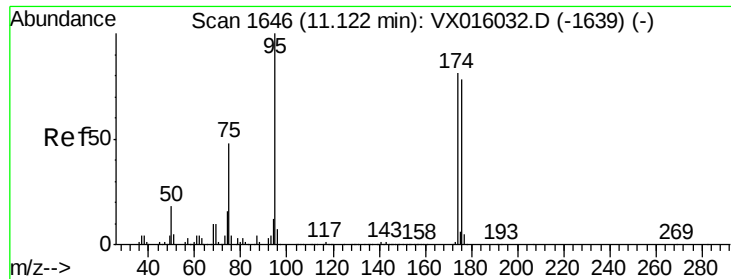
Tgt Ion: 98 Resp: 501122

Ion Ratio Lower Upper

98 100

100 67.0 53.7 80.5





#62

4-Bromofluorobenzene

Concen: 54.400 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

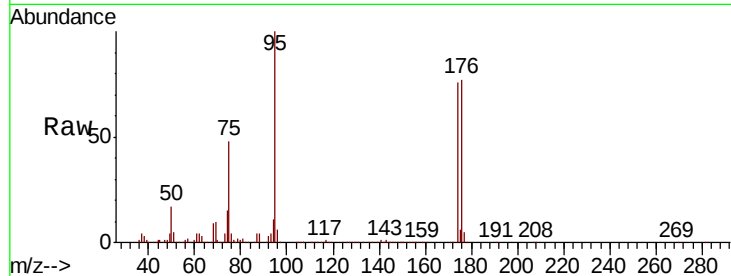
Tot Ion: 95 Resp: 203623

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.4

176 78.2 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016032.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016032.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016032.D (-1639) (-)

11.12

150000

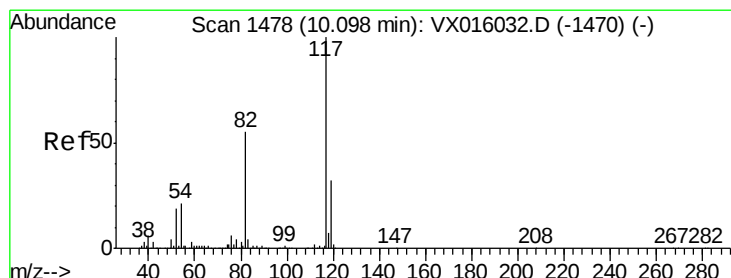
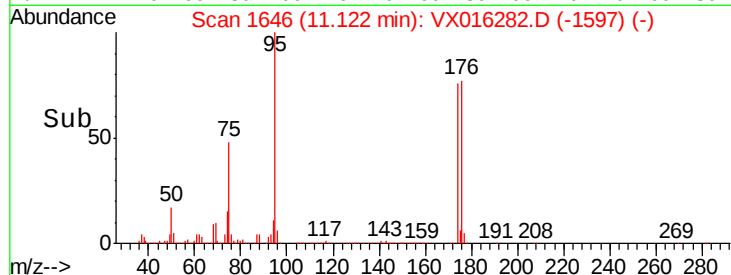
100000

50000

0

11.10 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: VX016282.D

Acq: 15 May 2020 15:48

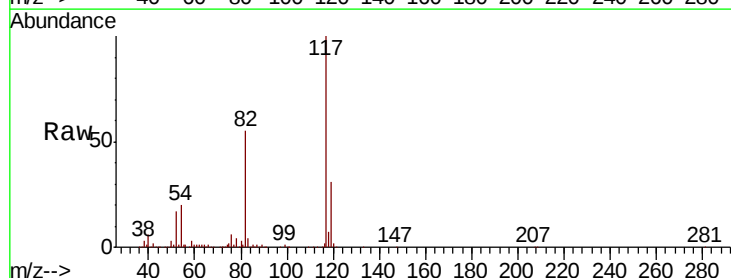
Tgt Ion: 117 Resp: 398034

Ion Ratio Lower Upper

117 100

82 55.1 44.4 66.6

119 30.9 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VX016032.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016032.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016032.D (-1470) (-)

10.10

400000

300000

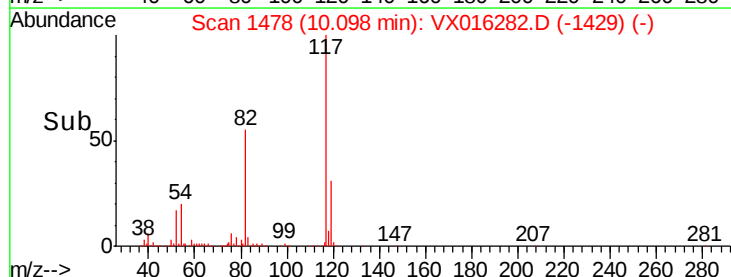
200000

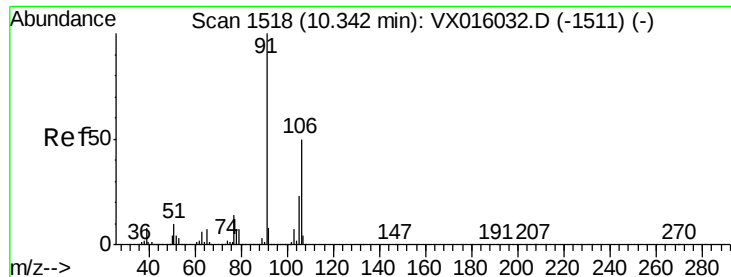
100000

0

10.00 10.20

Time-->





#68

m/p-Xylenes

Concen: 0.224 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

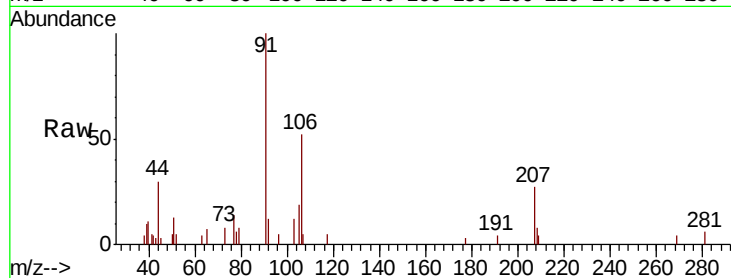
ClientSampleId :

Tot Ion:106 Resp: 1248

Ion Ratio Lower Upper

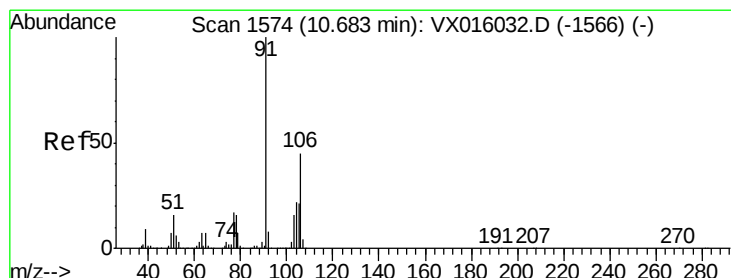
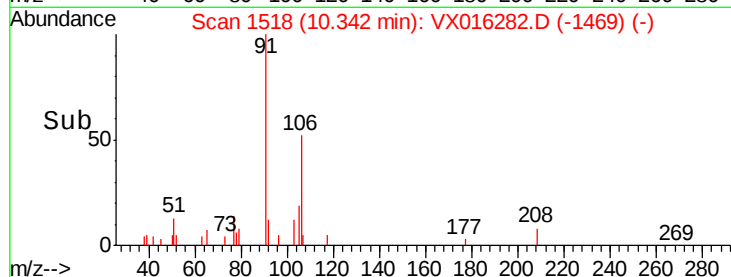
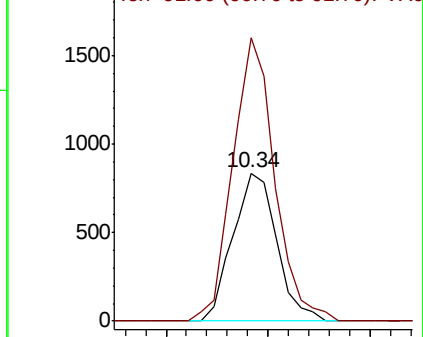
106 100

91 182.5 161.7 242.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.365 ug/l

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX016282.D

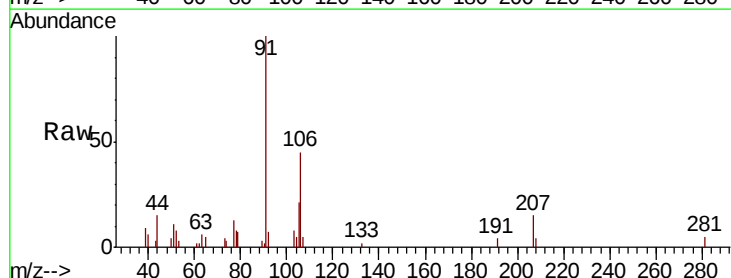
Acq: 15 May 2020 15:48

Tgt Ion:106 Resp: 1956

Ion Ratio Lower Upper

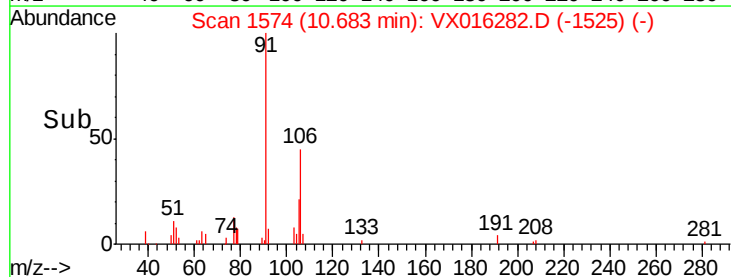
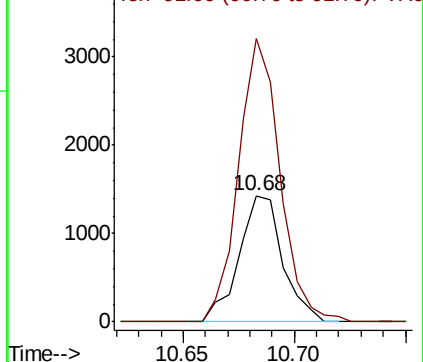
106 100

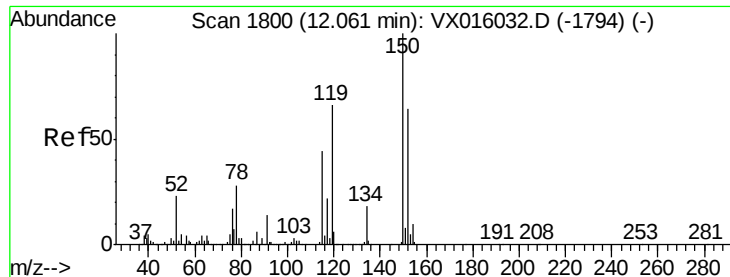
91 212.5 107.5 322.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

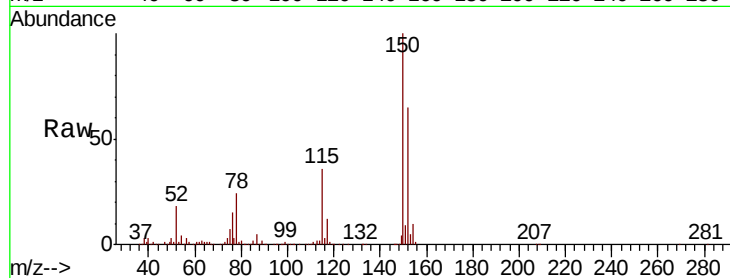
Tot Ion:152 Resp: 207195

Ion Ratio Lower Upper

152 100

115 58.2 41.3 124.1

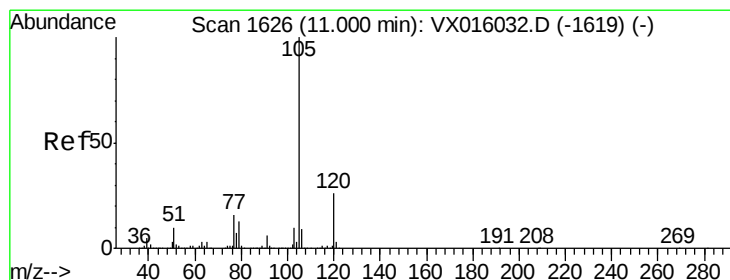
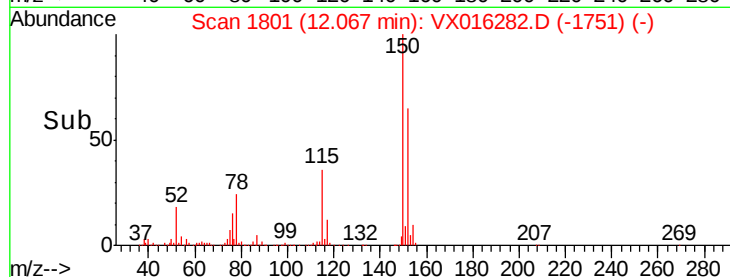
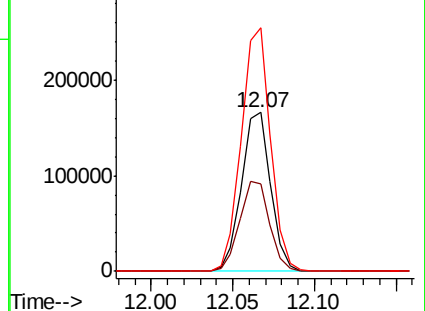
150 153.5 0.0 352.2



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



#73

Isopropylbenzene

Concen: 0.204 ug/l

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016282.D

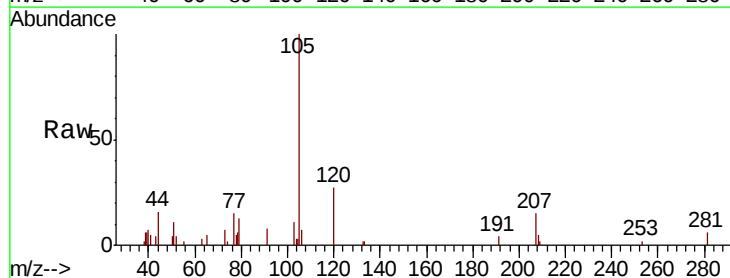
Acq: 15 May 2020 15:48

Tgt Ion:105 Resp: 3074

Ion Ratio Lower Upper

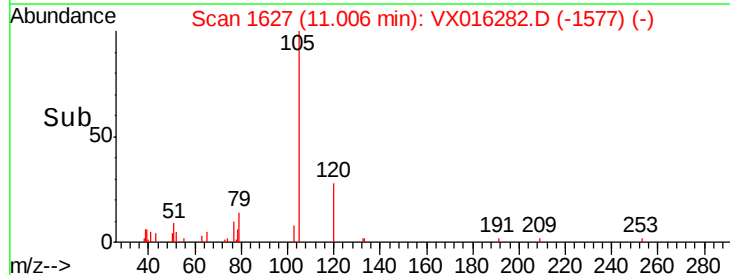
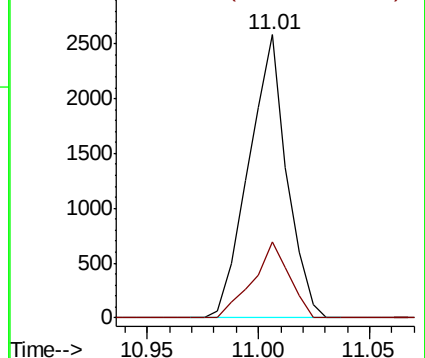
105 100

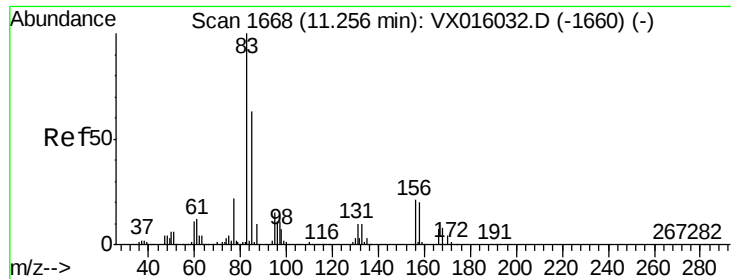
120 25.6 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.115 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

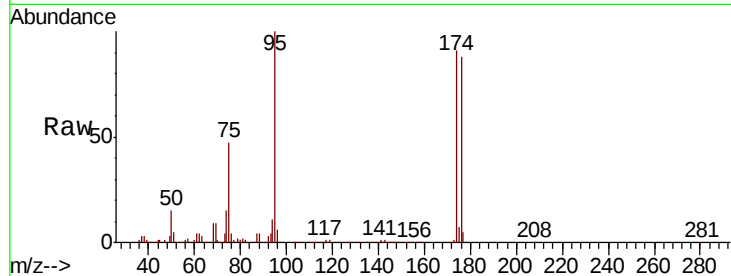
Tot Ion: 83 Resp: 186

Ion Ratio Lower Upper

83 100

131 164.0 5.1 15.4#

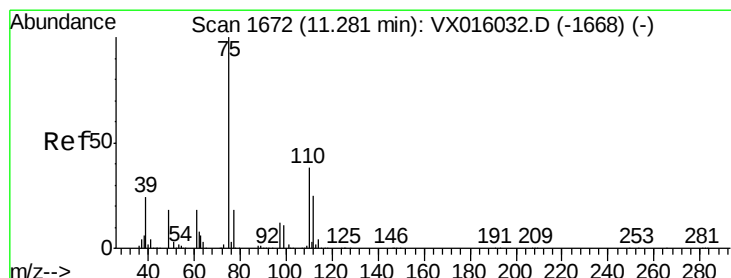
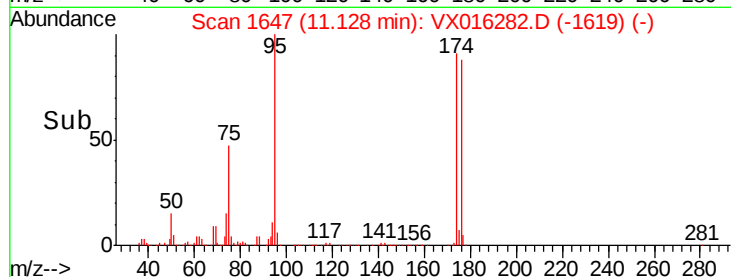
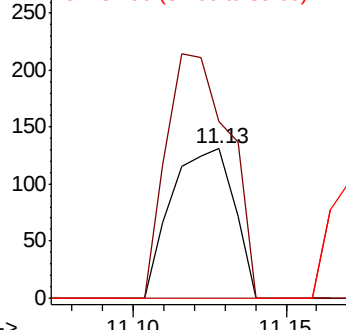
85 0.0 32.0 96.0#



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: 21.084 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016282.D

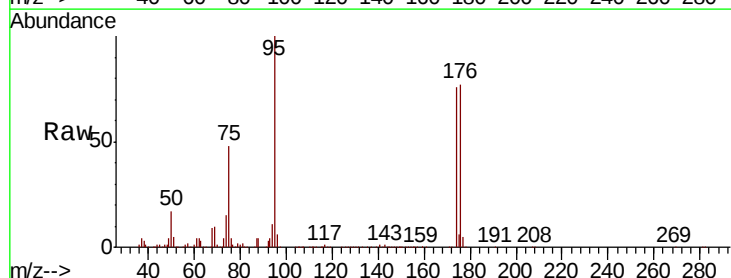
Acq: 15 May 2020 15:48

Tgt Ion: 75 Resp: 99133

Ion Ratio Lower Upper

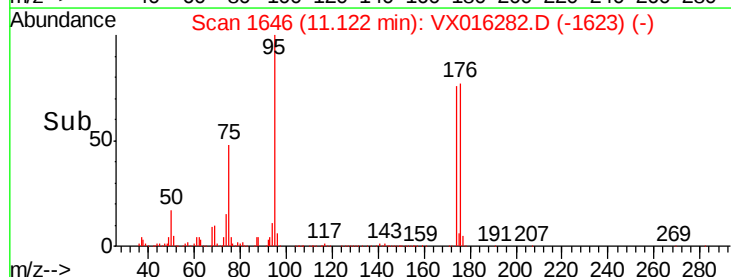
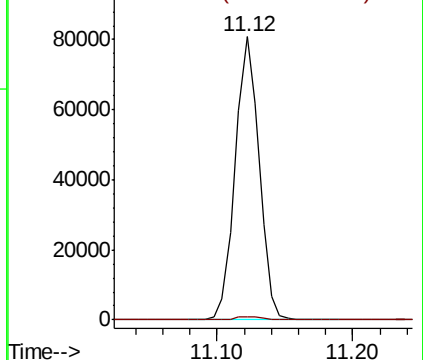
75 100

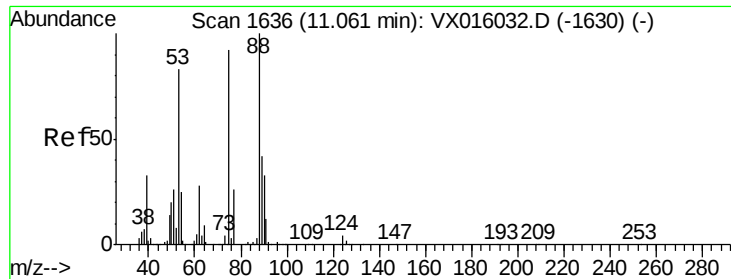
77 1.4 21.2 63.6#



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: 50.246 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

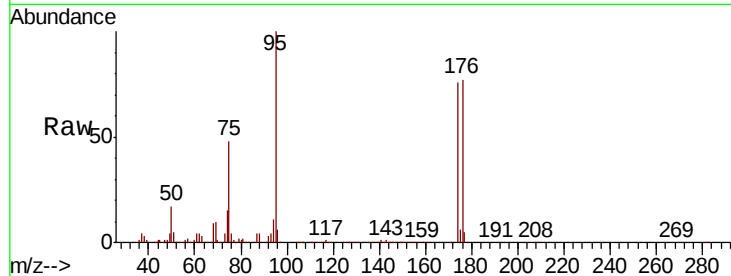
Tot Ion: 75 Resp: 99133

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

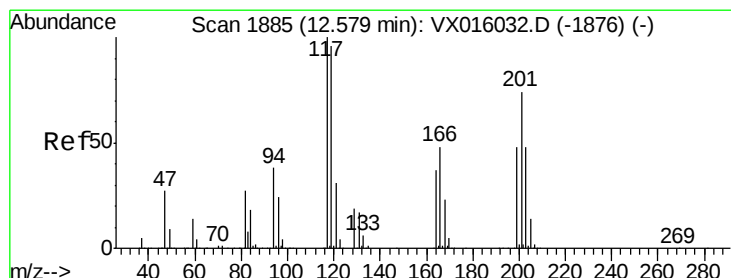
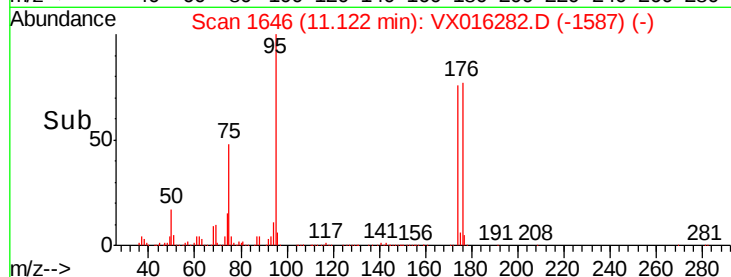
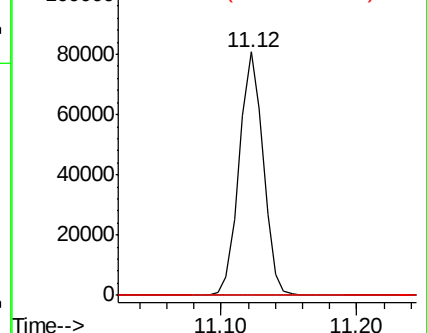
89 0.0 36.7 55.1#



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



#90

Hexachloroethane

Concen: 0.216 ug/l

RT: 12.68 min Scan# 1902

Delta R.T. 0.10 min

Lab File: VX016282.D

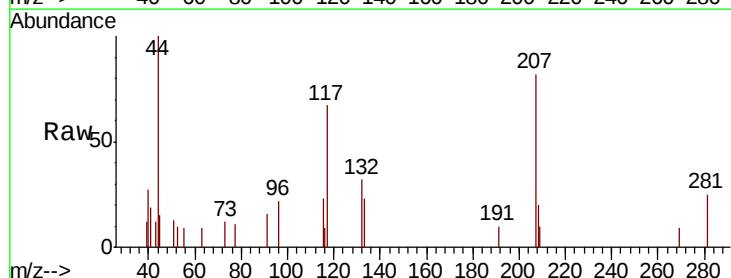
Acq: 15 May 2020 15:48

Tgt Ion: 117 Resp: 511

Ion Ratio Lower Upper

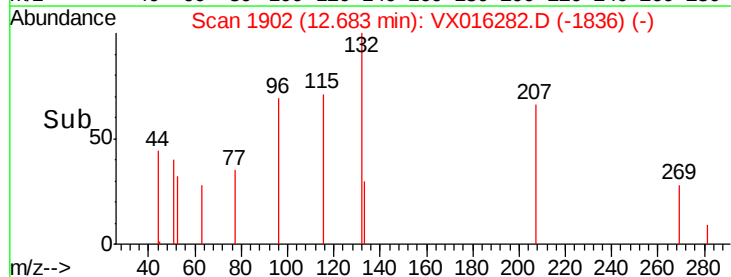
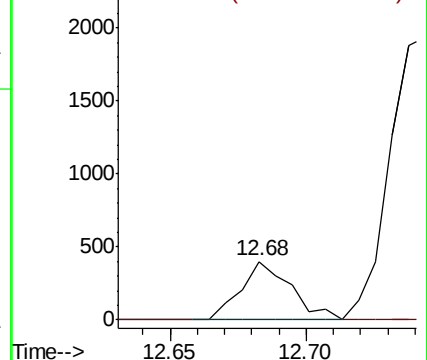
117 100

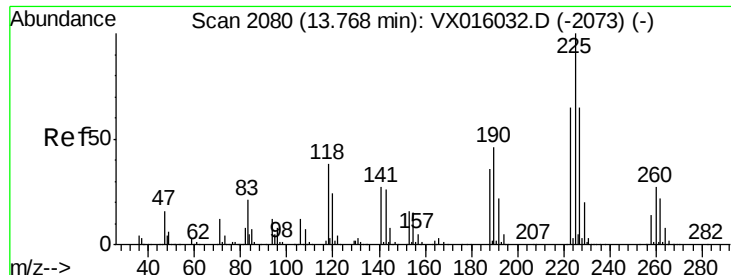
201 0.0 39.8 119.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#94

Hexachlorobutadiene

Concen: 0.549 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016282.D

Acq: 15 May 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	55
Ion Ratio	Lower	Upper	
225	100		
223	0.0	32.3	96.9#
227	0.0	31.8	95.4#

