

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050420\
 Data File : VX016041.D
 Acq On : 04 May 2020 17:30
 Operator : JC/SP
 Sample : L2469-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ118I-20200429

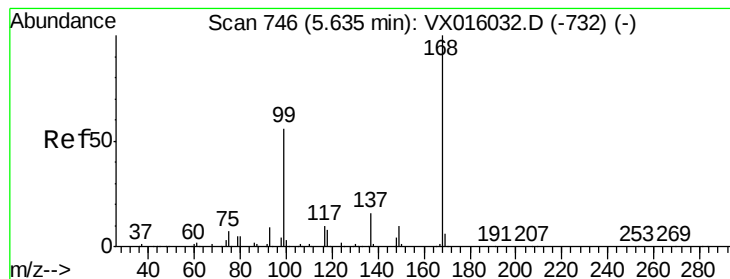
Quant Time: May 05 07:31:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:11:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	289729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	478662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	454040	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	229642	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	181481	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
35) Dibromofluoromethane	5.47	113	140027	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	
50) Toluene-d8	8.70	98	574643	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
62) 4-Bromofluorobenzene	11.12	95	224910	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1109	0.311	ug/l	95
11) Tert butyl alcohol	3.01	59	1464	1.519	ug/l #	57
13) Acrolein	2.28	56	550	0.912	ug/l	91
15) Acrylonitrile	3.12	53	549	0.274	ug/l #	75
16) Acetone	2.42	43	3122	1.835	ug/l	96
17) Carbon Disulfide	2.55	76	4094	0.247	ug/l	98
20) Methylene Chloride	2.84	84	883	0.252	ug/l #	90
21) trans-1,2-Dichloroethene	3.15	96	703	0.209	ug/l #	63
36) 1,1-Dichloropropene	5.63	75	22058	4.681	ug/l #	49
38) Carbon Tetrachloride	5.64	117	28051	5.857	ug/l #	14
49) 1,4-Dioxane	7.49	88	26	0.263	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.25	83	45	4.823	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	118009	22.646	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	118009	53.966	ug/l #	13
93) 1,2,4-Trichlorobenzene	13.63	180	1197	0.217	ug/l	92
94) Hexachlorobutadiene	13.77	225	424	0.700	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 747

Delta R.T. 0.01 min

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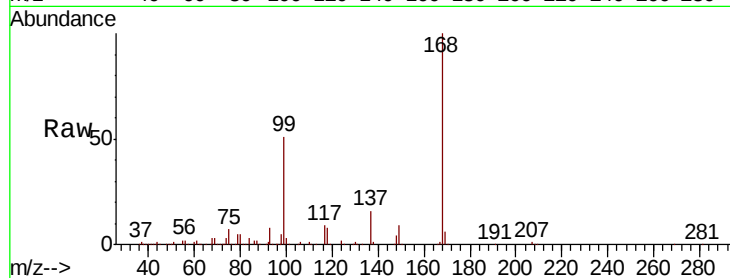
SA-PZ118I-20200429

Tot Ion:168 Resp: 289729

Ion Ratio Lower Upper

168 100

99 51.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

60000

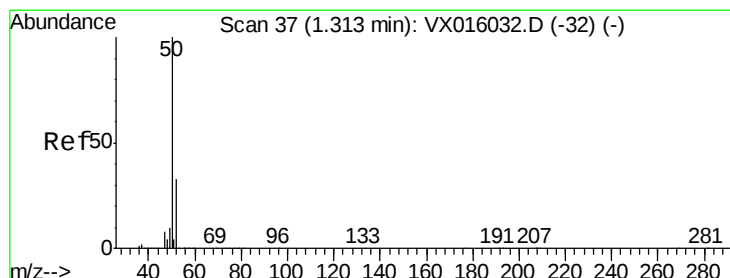
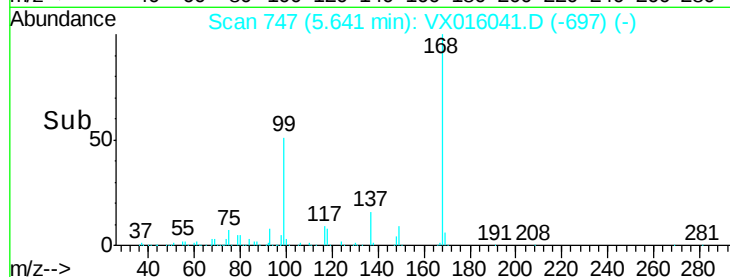
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.311 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016041.D

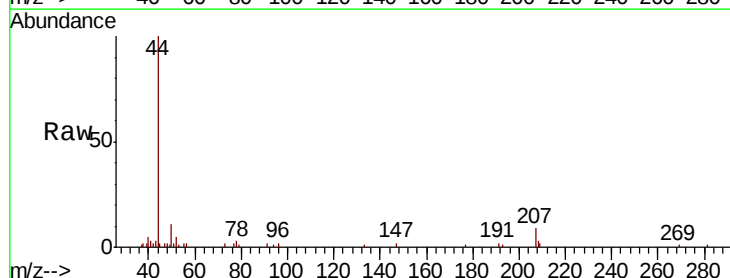
Acq: 04 May 2020 17:30

Tgt Ion: 50 Resp: 1109

Ion Ratio Lower Upper

50 100

52 35.7 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

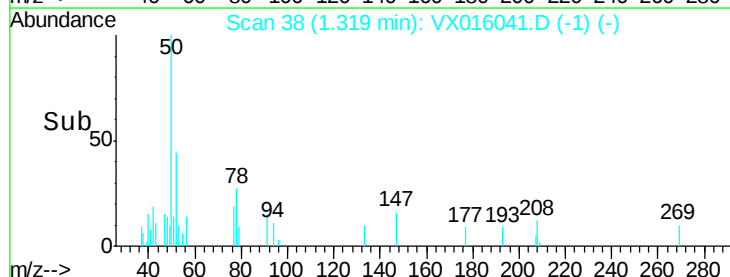
400

200

0

Time-->

1.30 1.35



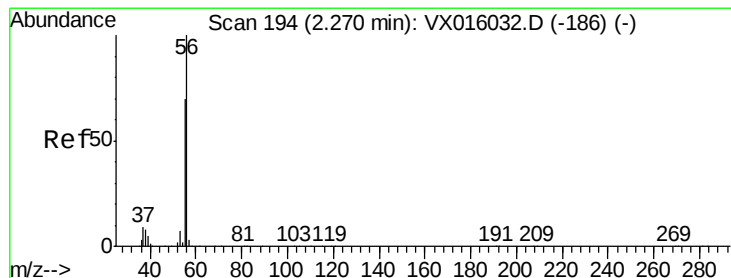
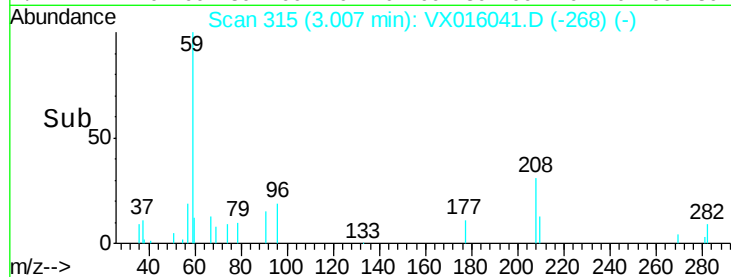
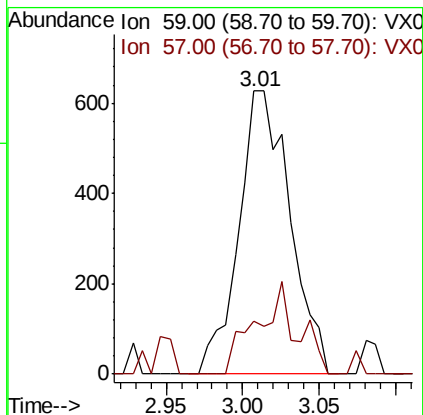
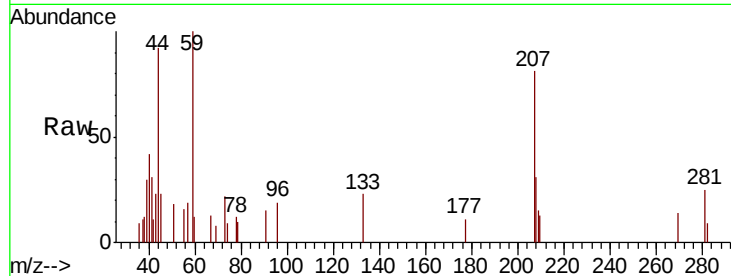


#11

Tert butyl alcohol
 Concen: 1.519 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX016041.D
 Acq: 04 May 2020 17:30

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ118I-20200429

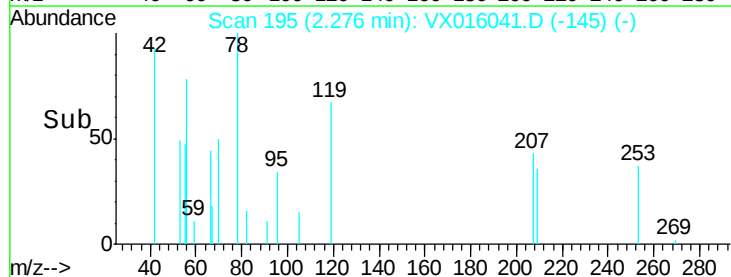
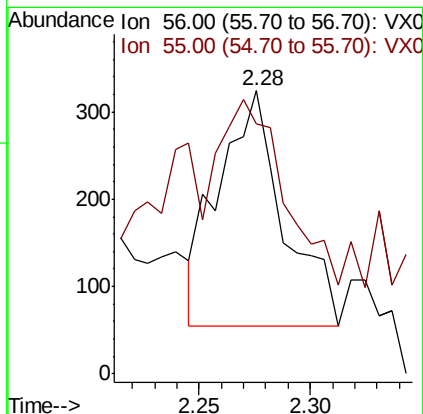
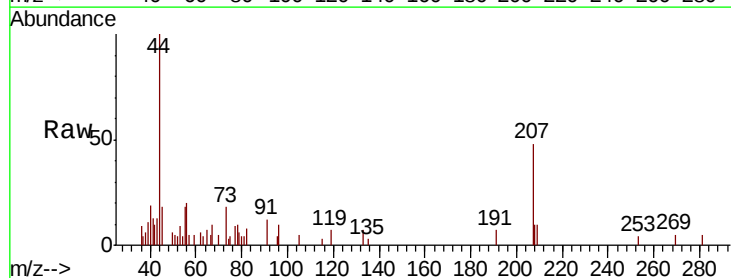
Tot Ion: 59 Resp: 1464
 Ion Ratio Lower Upper
 59 100
 57 26.2 8.2 12.4#

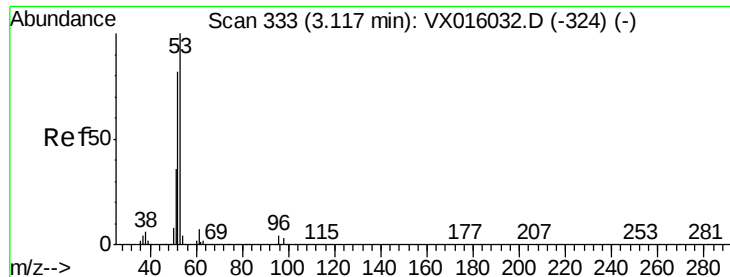


#13

Acrolein
 Concen: 0.912 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX016041.D
 Acq: 04 May 2020 17:30

Tgt Ion: 56 Resp: 550
 Ion Ratio Lower Upper
 56 100
 55 78.2 56.5 84.7





#15

Acrylonitrile

Concen: 0.274 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118I-20200429

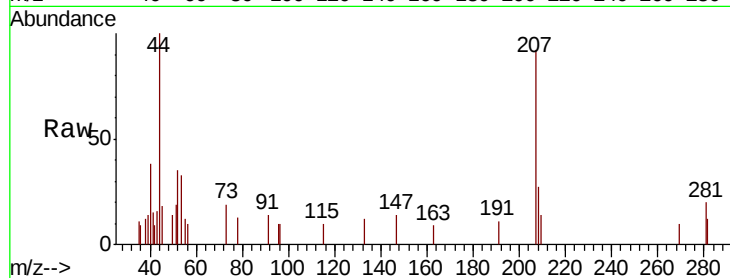
Tot Ion: 53 Resp: 549

Ion Ratio Lower Upper

53 100

52 96.7 66.1 99.1

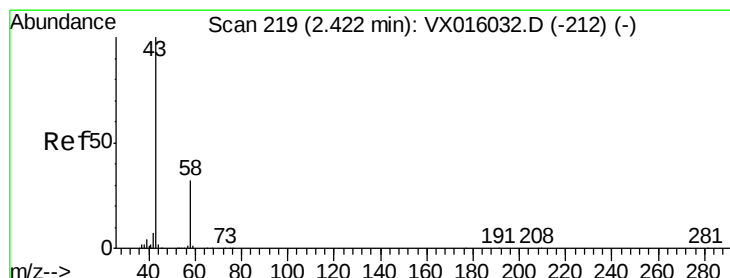
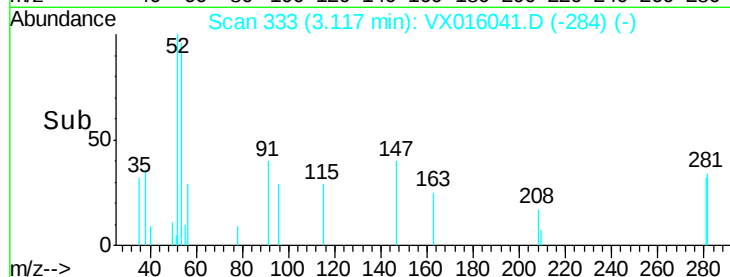
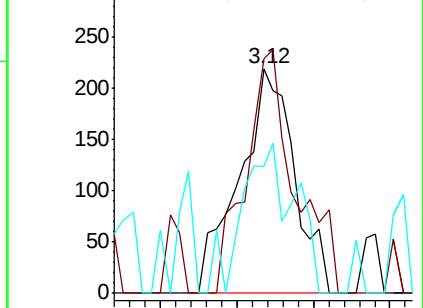
51 63.4 28.8 43.2#



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: 1.835 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016041.D

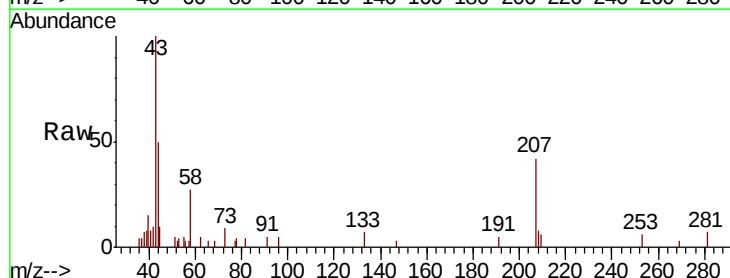
Acq: 04 May 2020 17:30

Tgt Ion: 43 Resp: 3122

Ion Ratio Lower Upper

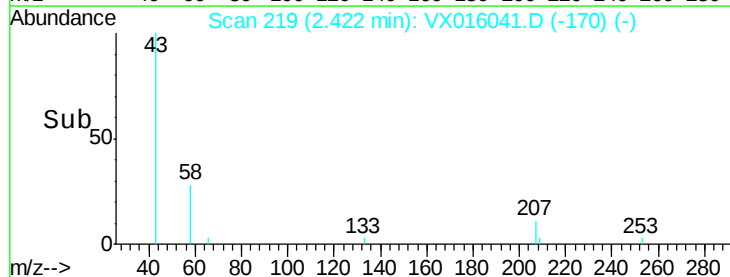
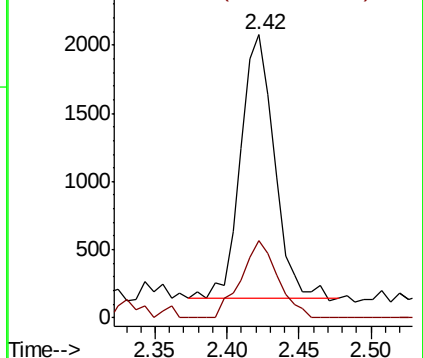
43 100

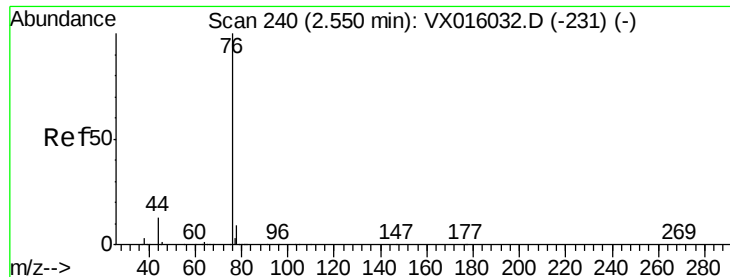
58 29.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.247 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

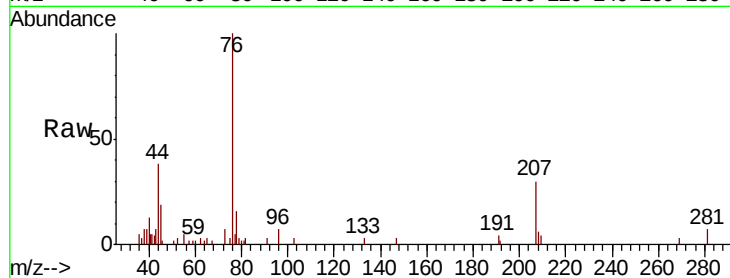
SA-PZ118I-20200429

Tot Ion: 76 Resp: 4094

Ion Ratio Lower Upper

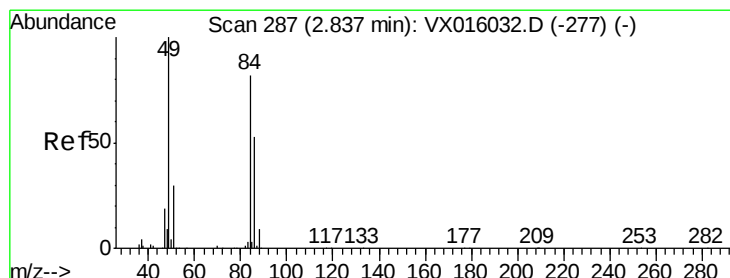
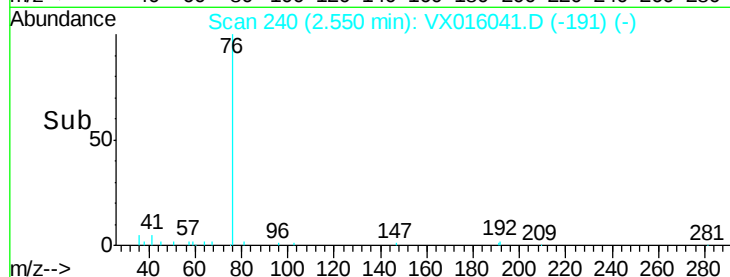
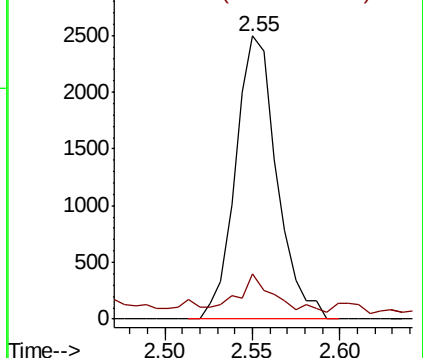
76 100

78 10.2 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.252 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Tgt Ion: 84 Resp: 883

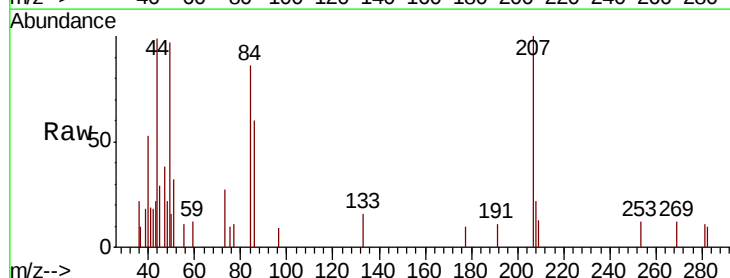
Ion Ratio Lower Upper

84 100

49 113.6 97.3 145.9

51 24.7 29.3 43.9#

86 70.4 51.3 76.9

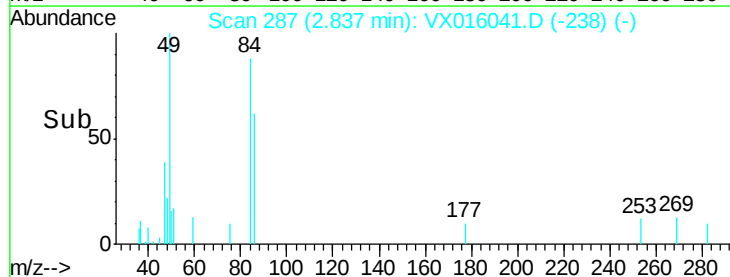
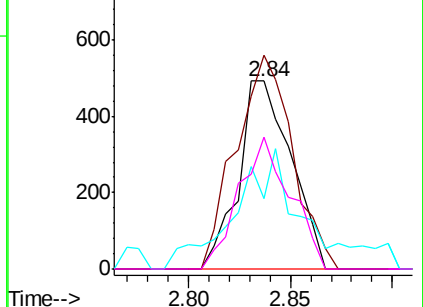


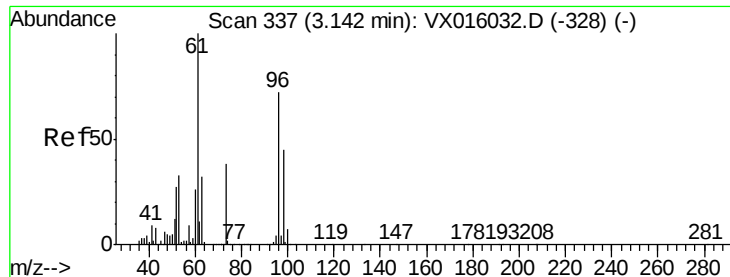
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.209 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118I-20200429

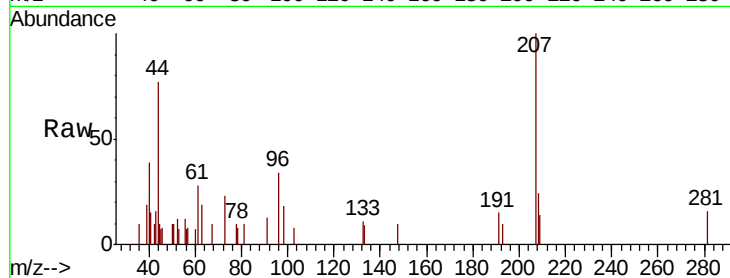
Tot Ion: 96 Resp: 703

Ion Ratio Lower Upper

96 100

61 81.3 111.2 166.8#

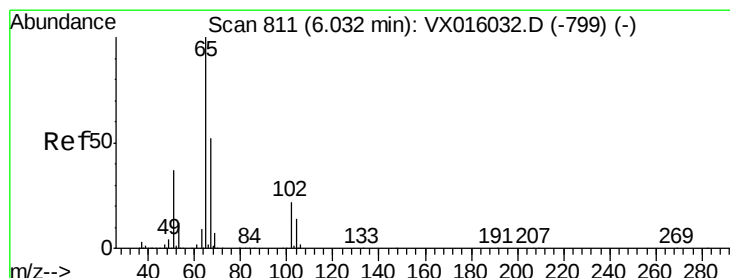
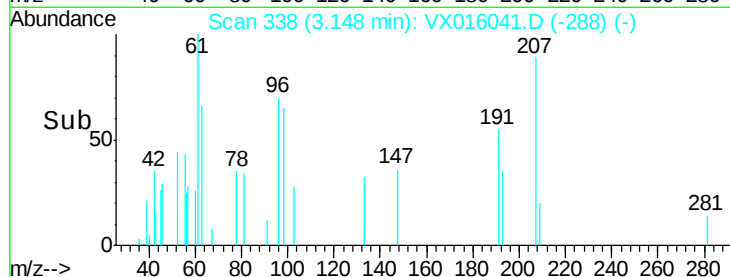
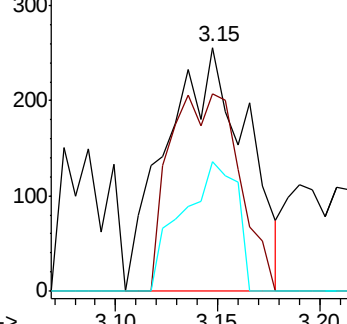
98 53.1 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 47.601 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016041.D

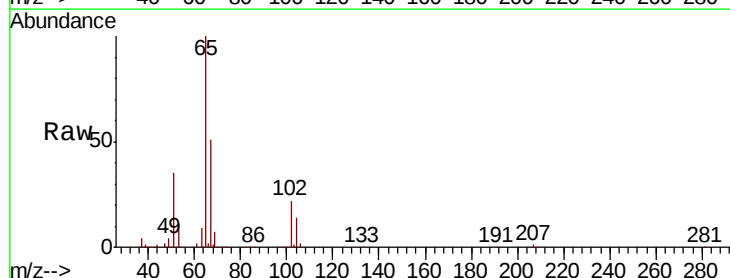
Acq: 04 May 2020 17:30

Tgt Ion: 65 Resp: 181481

Ion Ratio Lower Upper

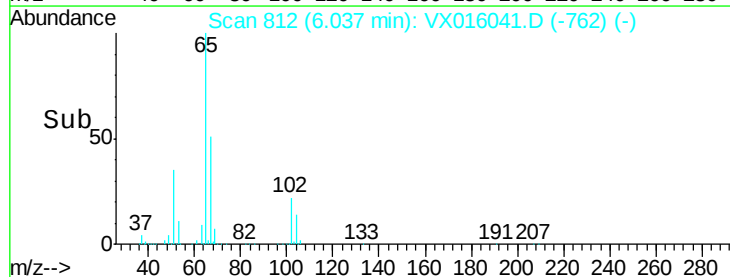
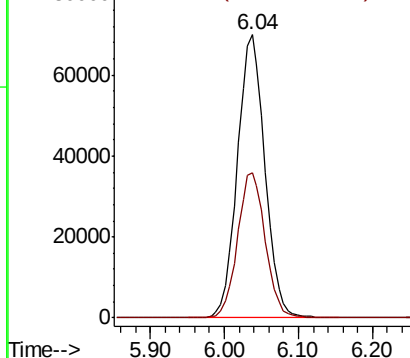
65 100

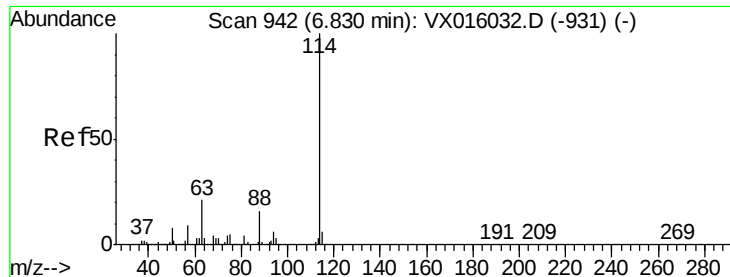
67 51.7 0.0 104.8



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: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118I-20200429

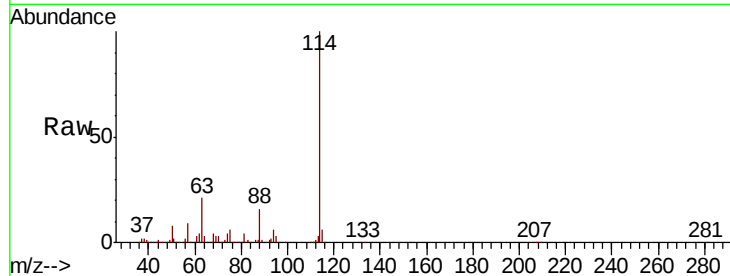
Tot Ion:114 Resp: 478662

Ion Ratio Lower Upper

114 100

63 20.6 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

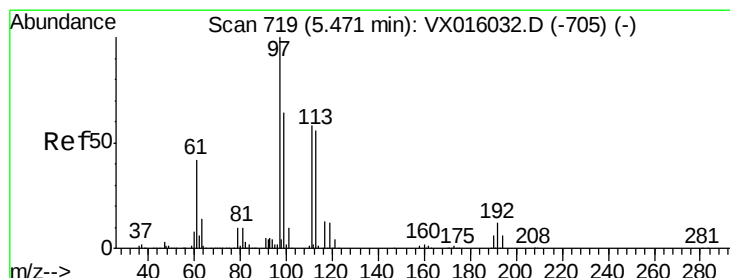
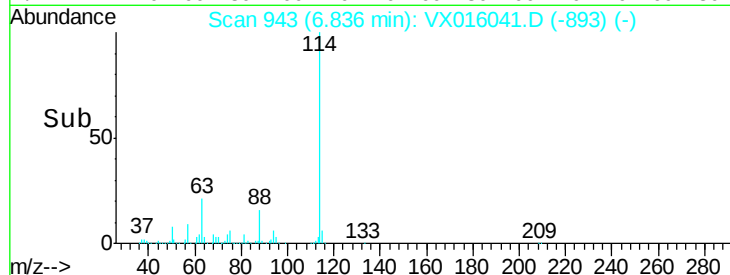
0

6.84

6.80

6.90

Time-->



#35

Dibromofluoromethane

Concen: 46.175 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

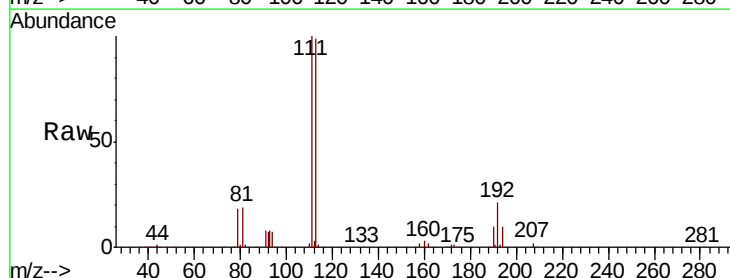
Tgt Ion:113 Resp: 140027

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

192 21.2 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

40000

20000

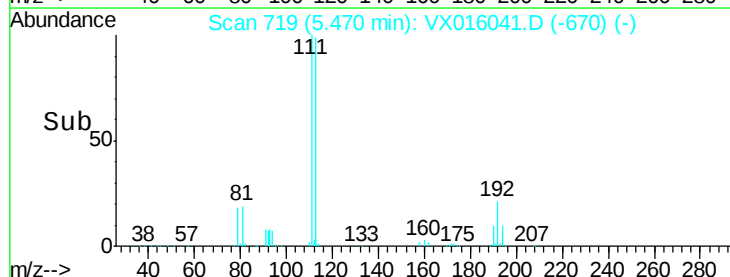
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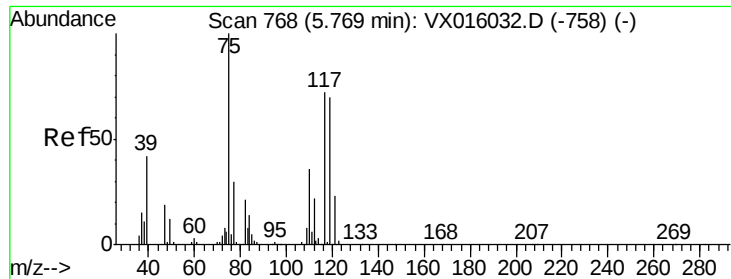
5.47

5.40

5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.681 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016041.D

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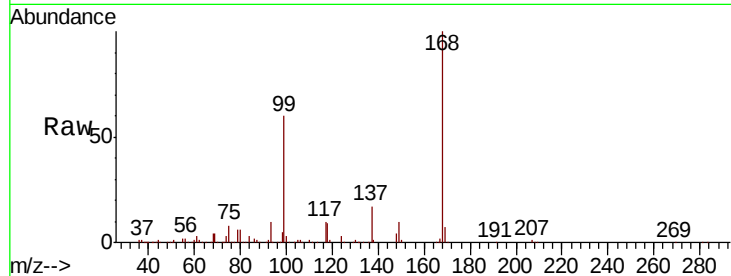
Tot Ion: 75 Resp: 22058

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

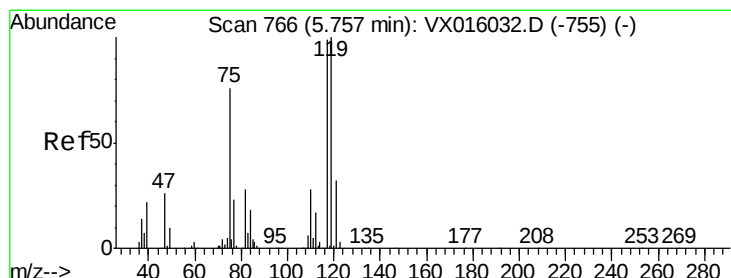
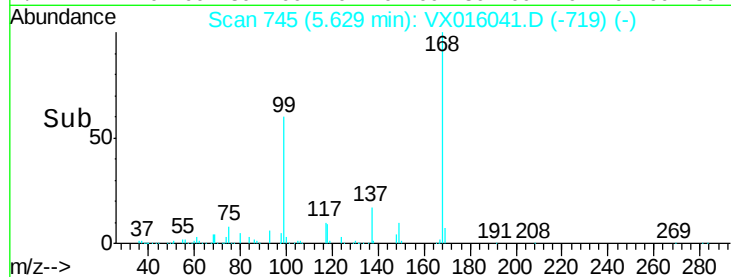
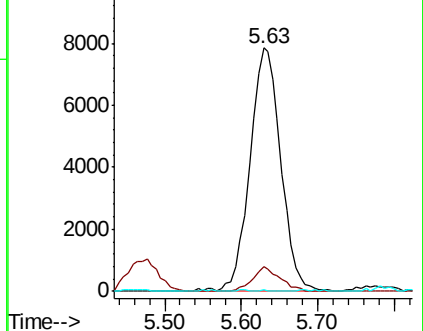
77 0.1 25.0 37.6#



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: 5.857 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

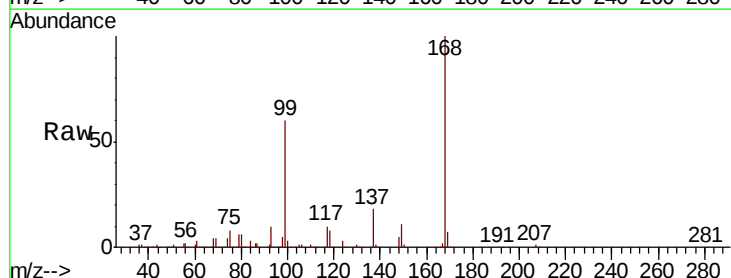
Tgt Ion: 117 Resp: 28051

Ion Ratio Lower Upper

117 100

119 4.7 80.3 120.5#

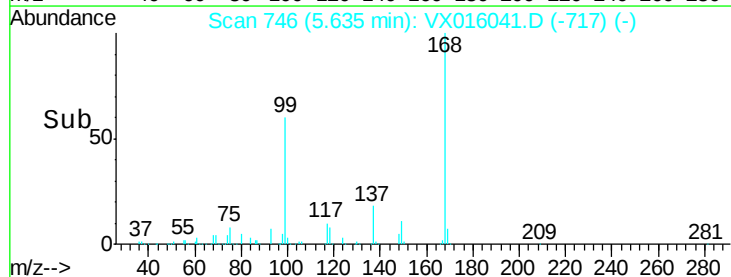
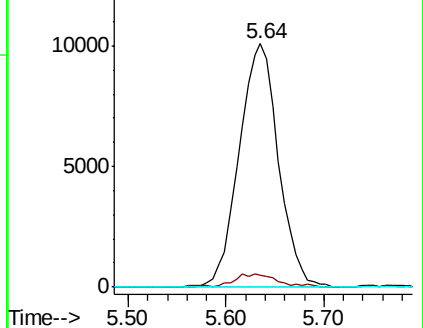
121 0.0 25.7 38.5#

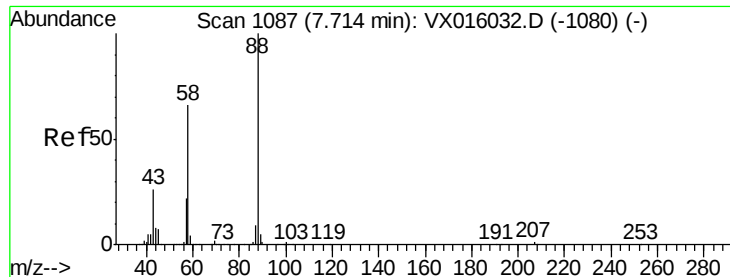


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.263 ug/l

RT: 7.49 min Scan# 1051

Delta R.T. -0.22 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ1181-20200429

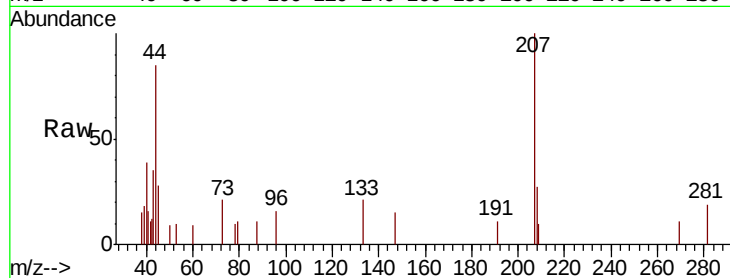
Tot Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 623.1 25.3 37.9#

58 0.0 55.9 83.9#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

400

300

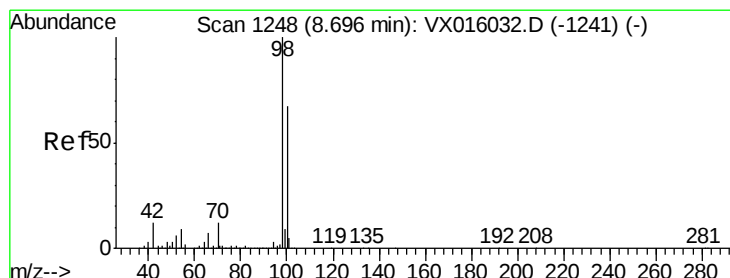
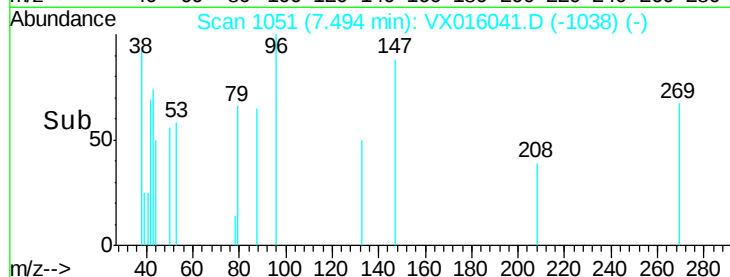
200

100

0

7.48 7.49 7.50 7.51

Time-->



#50

Toluene-d8

Concen: 49.180 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016041.D

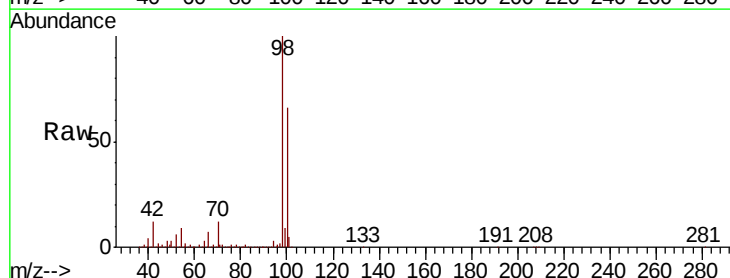
Acq: 04 May 2020 17:30

Tgt Ion: 98 Resp: 574643

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

400000

300000

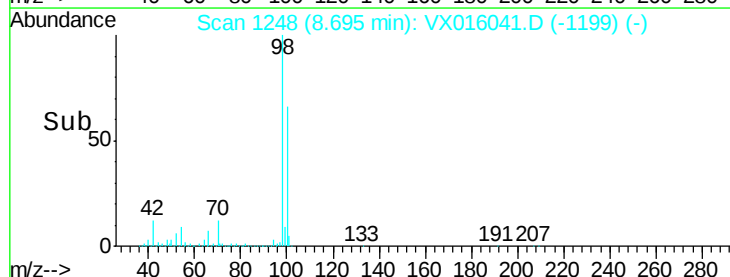
200000

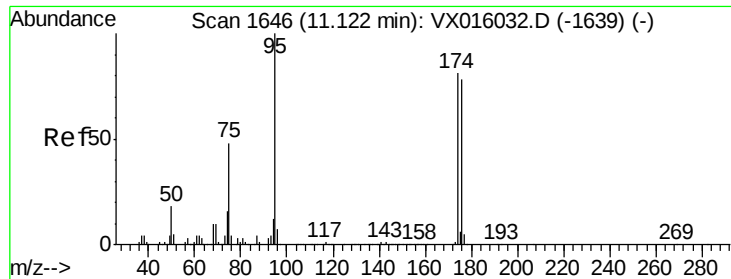
100000

0

8.60 8.65 8.70 8.75 8.80

Time-->





#62

4-Bromofluorobenzene

Concen: 50.607 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118I-20200429

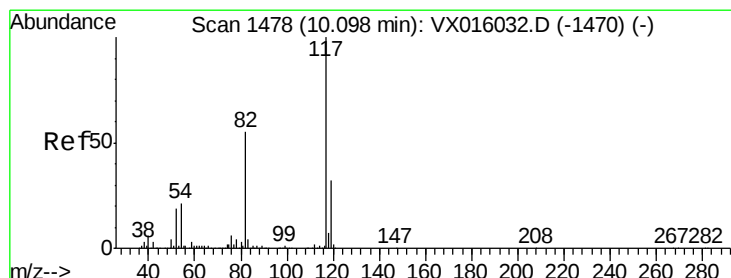
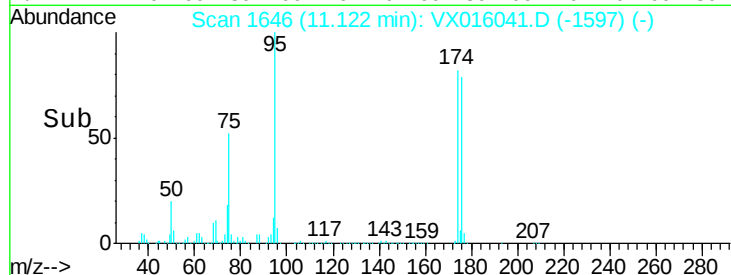
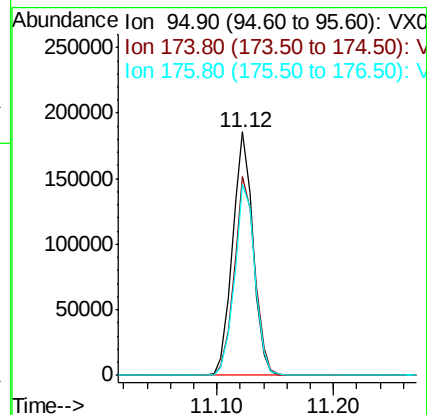
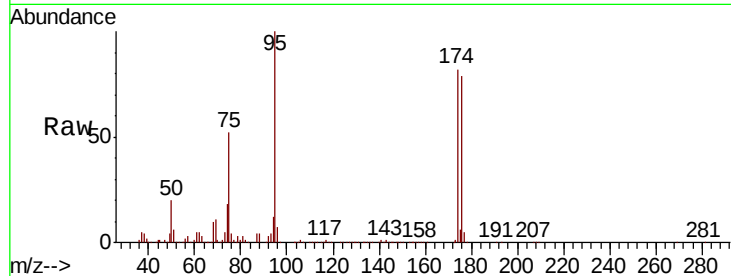
Tot Ion: 95 Resp: 224910

Ion Ratio Lower Upper

95 100

174 82.6 0.0 159.4

176 78.4 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: VX016041.D

Acq: 04 May 2020 17:30

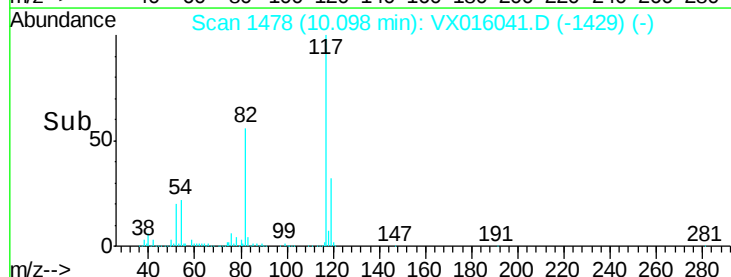
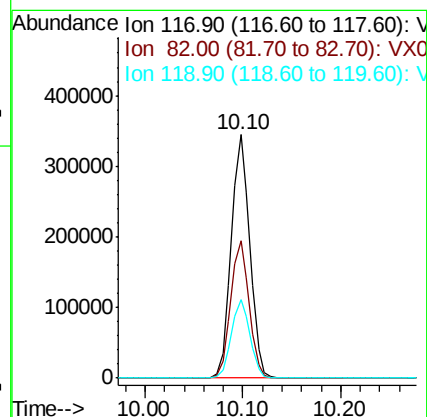
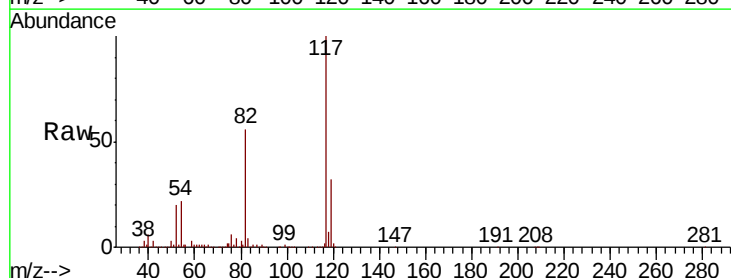
Tgt Ion: 117 Resp: 454040

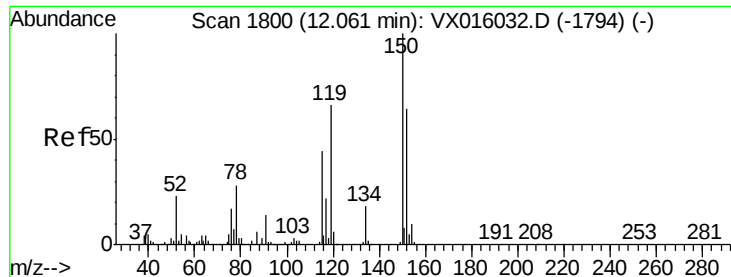
Ion Ratio Lower Upper

117 100

82 56.3 44.4 66.6

119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ1181-20200429

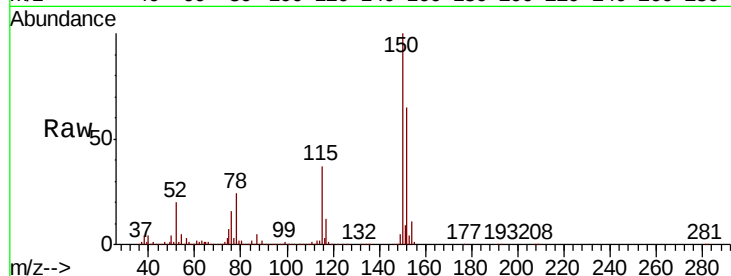
Tot Ion:152 Resp: 229642

Ion Ratio Lower Upper

152 100

115 58.8 41.3 124.1

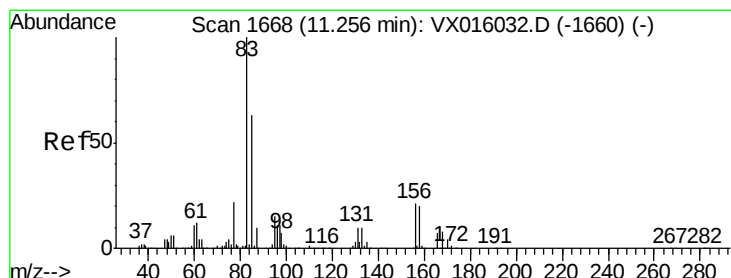
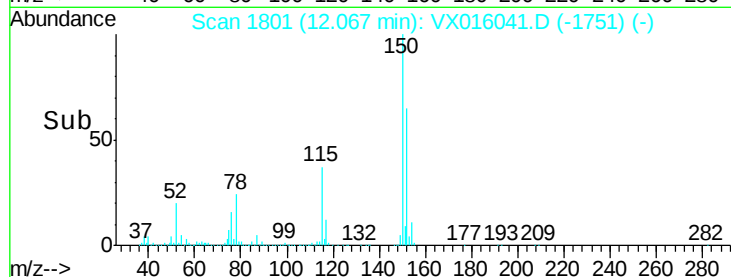
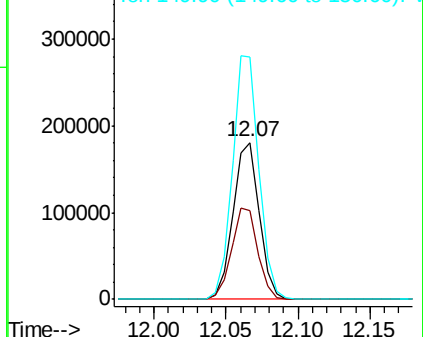
150 157.0 0.0 352.2



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: 4.823 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

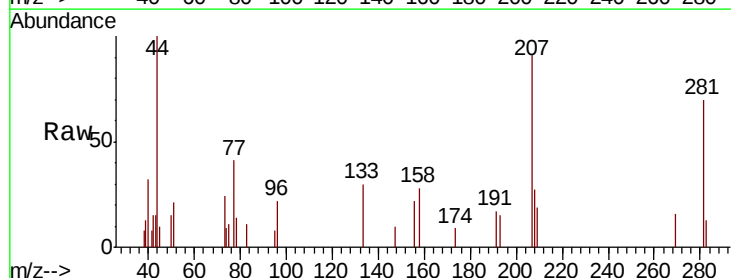
Tgt Ion: 83 Resp: 45

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

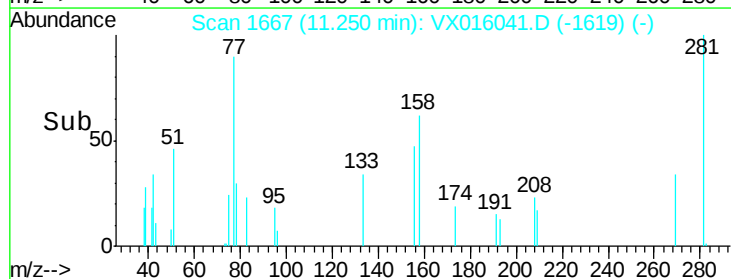
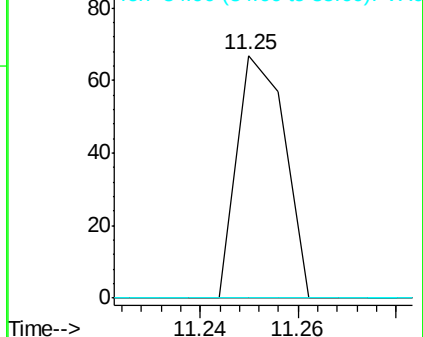
85 0.0 32.0 96.0#

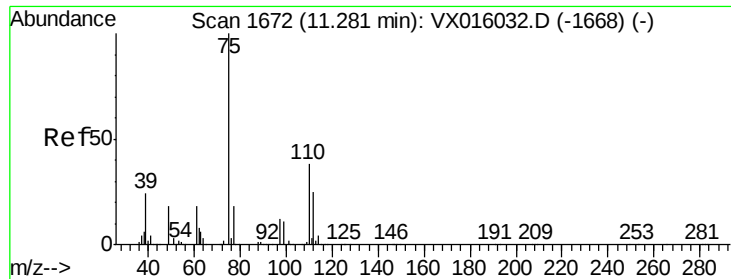


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

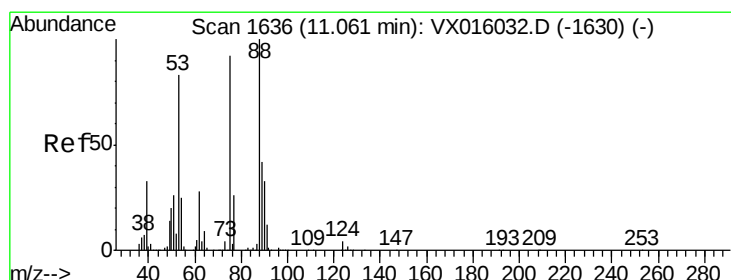
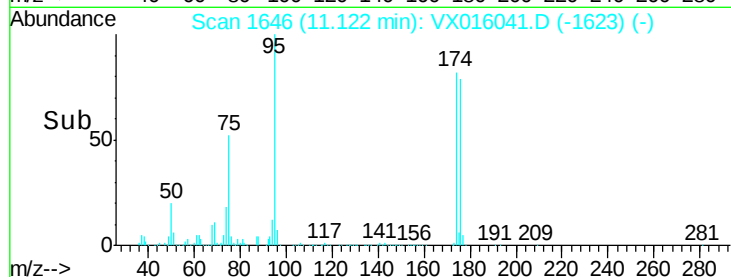
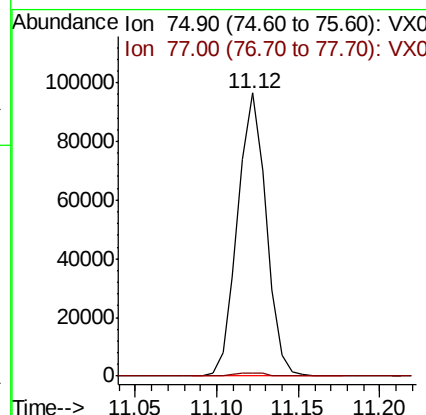
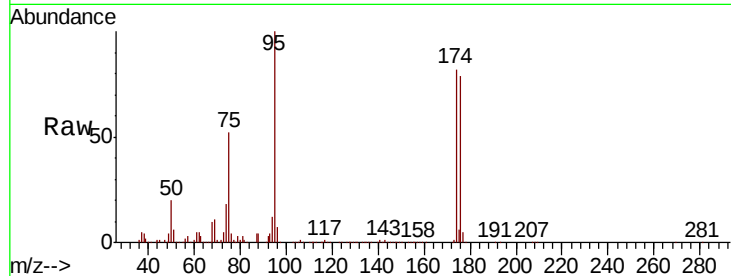




#76
 1,2,3-Trichloropropane
 Concen: 22.646 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016041.D
 Acq: 04 May 2020 17:30

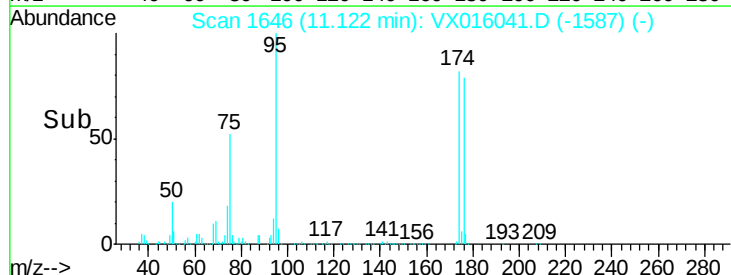
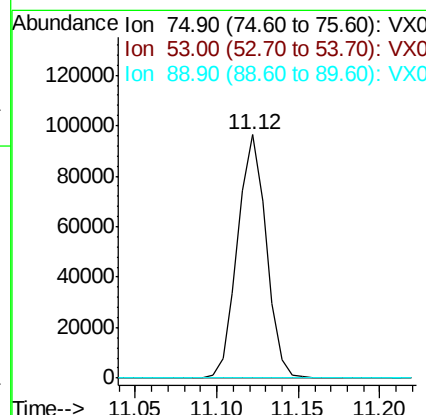
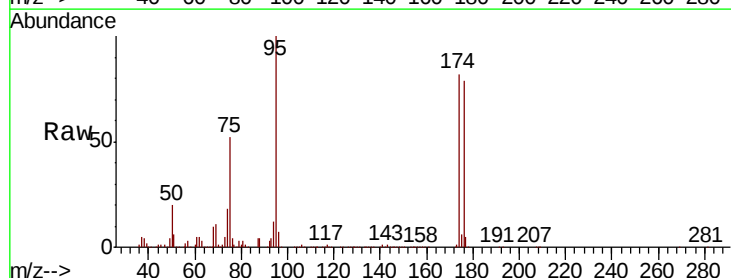
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ118I-20200429

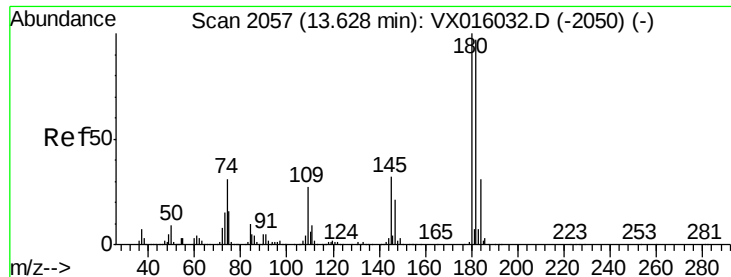
Tot Ion: 75 Resp: 118009
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.966 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016041.D
 Acq: 04 May 2020 17:30

Tgt Ion: 75 Resp: 118009
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#





#93

1,2,4-Trichlorobenzene

Concen: 0.217 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ118I-20200429

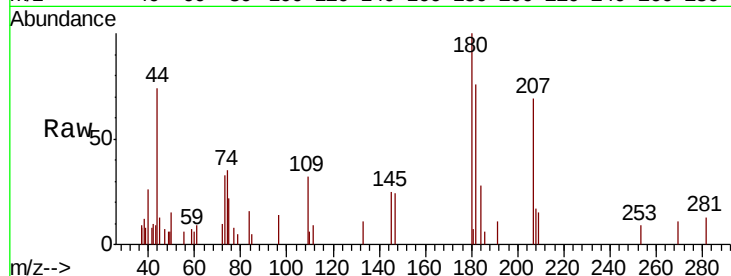
Tot Ion:180 Resp: 1197

Ion Ratio Lower Upper

180 100

182 87.3 48.7 146.1

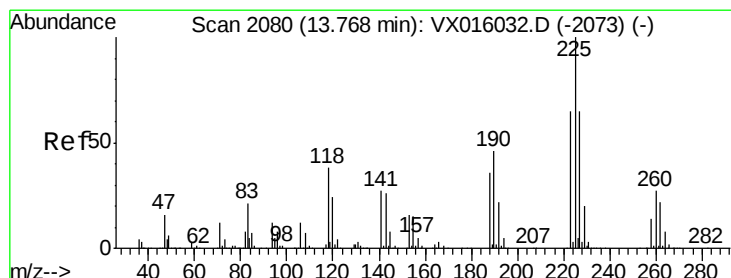
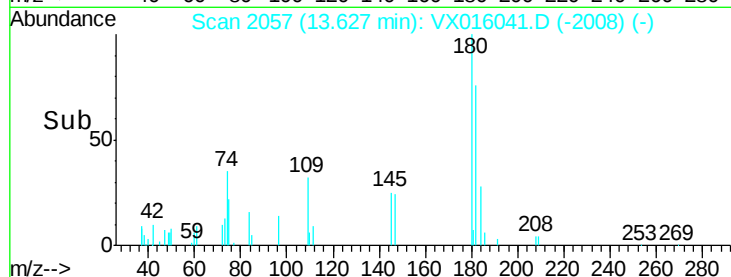
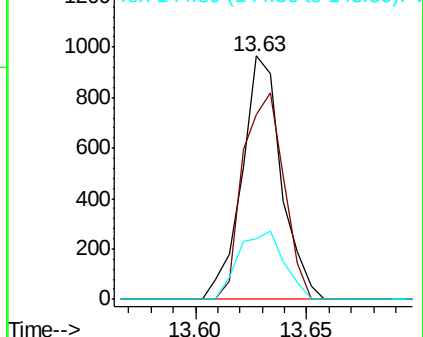
145 32.3 15.7 47.1



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: 0.700 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016041.D

Acq: 04 May 2020 17:30

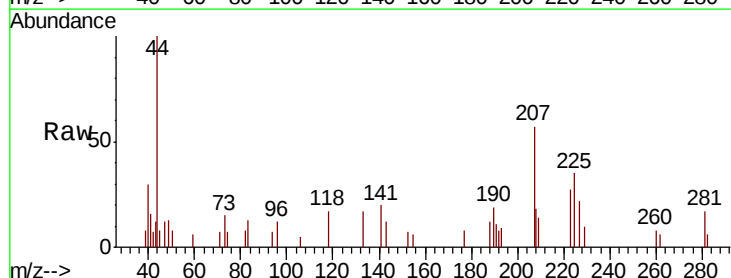
Tgt Ion:225 Resp: 424

Ion Ratio Lower Upper

225 100

223 68.2 32.3 96.9

227 69.8 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

