

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080119\
 Data File : VX011278.D
 Acq On : 01 Aug 2019 23:14
 Operator : JC/SP
 Sample : K4118-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-DUP01-20190730

Quant Time: Aug 02 02:09:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	139876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	223700	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	211425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	95088	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	74182	52.66	ug/l	0.00
Spiked Amount						
			Recovery	=	105.32%	
35) Dibromofluoromethane	5.49	113	70500	48.27	ug/l	0.00
Spiked Amount						
			Recovery	=	96.54%	
50) Toluene-d8	8.71	98	271741	49.29	ug/l	0.00
Spiked Amount						
			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	11.13	95	89929	45.69	ug/l	0.00
Spiked Amount						
			Recovery	=	91.38%	

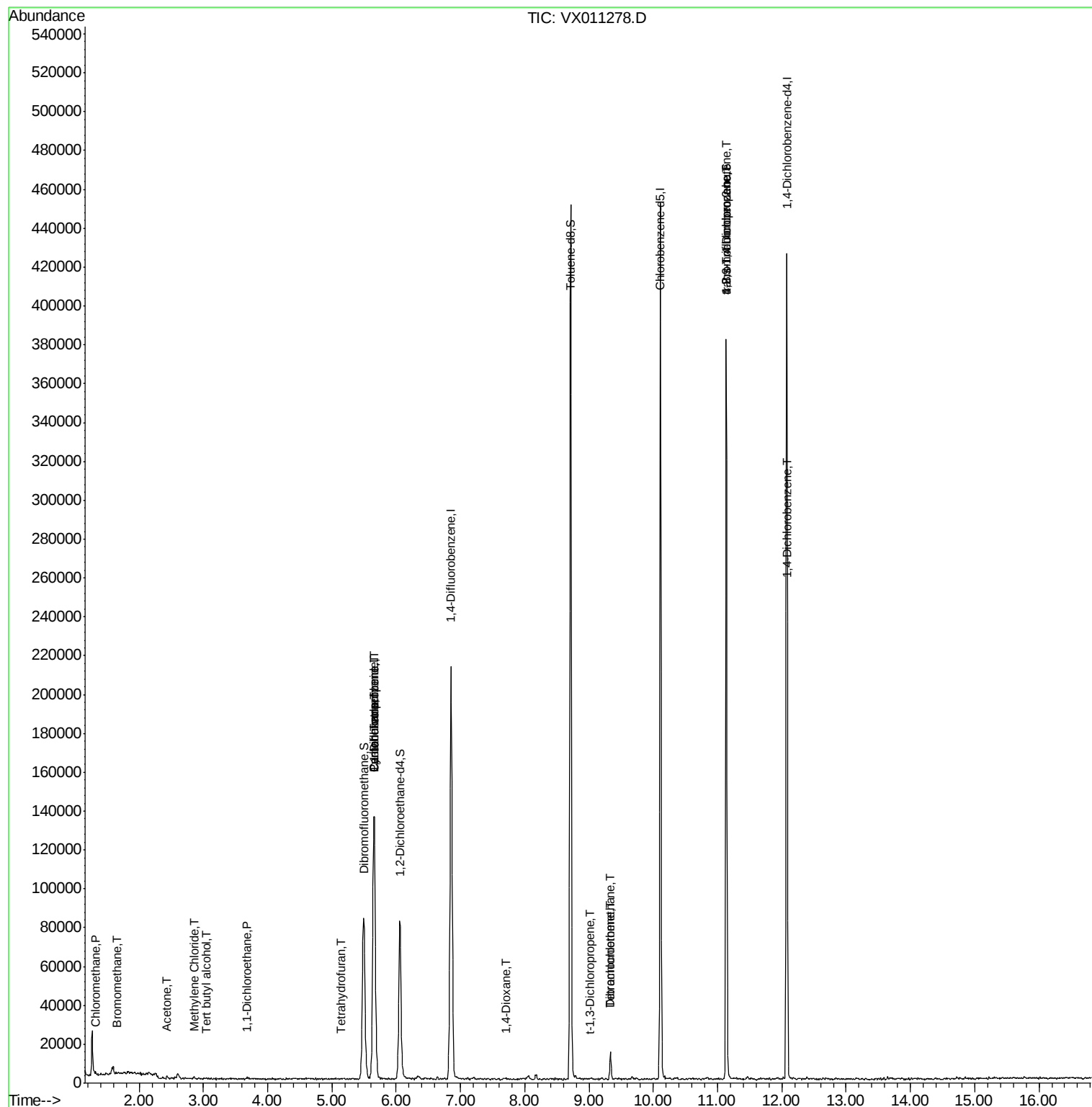
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	804	0.663	ug/l #	80
5) Bromomethane	1.65	94	388	0.408	ug/l	99
6) Chloroethane	1.68	64	227	Below Cal	#	84
11) Tert butyl alcohol	3.05	59	195	0.717	ug/l #	1
16) Acetone	2.44	43	1588	2.368	ug/l	91
20) Methylene Chloride	2.85	84	431	0.294	ug/l #	72
24) 1,1-Dichloroethane	3.69	63	902	0.410	ug/l #	80
29) Tetrahydrofuran	5.13	42	168	0.287	ug/l #	80
31) Cyclohexane	5.65	56	2761	1.522	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	8908	4.561	ug/l #	50
38) Carbon Tetrachloride	5.65	117	12661	6.443	ug/l #	14
49) 1,4-Dioxane	7.72	88	56	1.310	ug/l #	1
53) t-1,3-Dichloropropene	9.02	75	25	2.849	ug/l #	43
60) Dibromochloromethane	9.34	129	2524	1.556	ug/l #	10
64) Tetrachloroethene	9.34	164	2881	1.605	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	43864	25.330	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	43864	66.042	ug/l #	10
88) 1,4-Dichlorobenzene	12.09	146	817	0.249	ug/l #	1

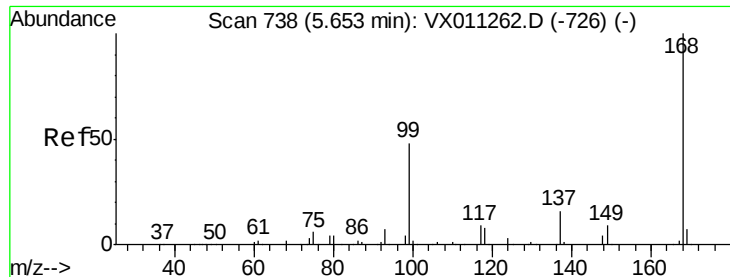
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

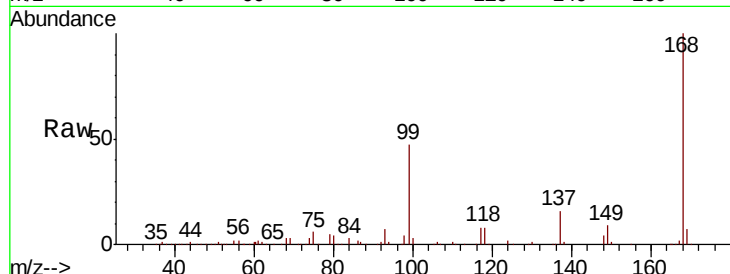
SA-DUP01-20190730

Tot Ion:168 Resp: 139876

Ion Ratio Lower Upper

168 100

99 46.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

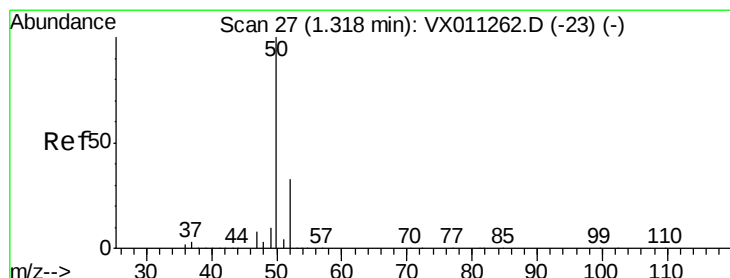
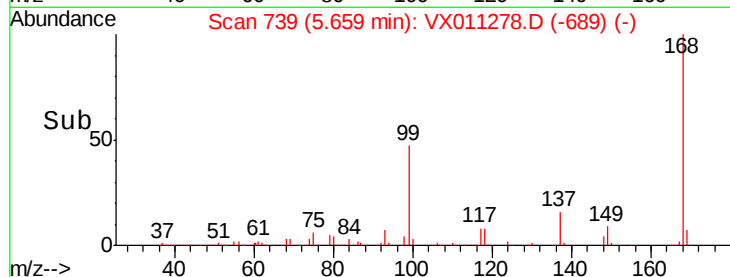
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.663 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011278.D

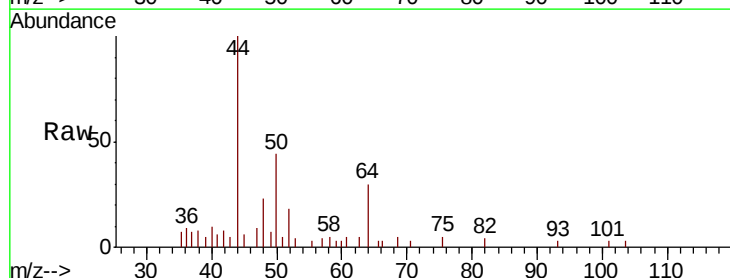
Acq: 01 Aug 2019 23:14

Tgt Ion: 50 Resp: 804

Ion Ratio Lower Upper

50 100

52 44.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

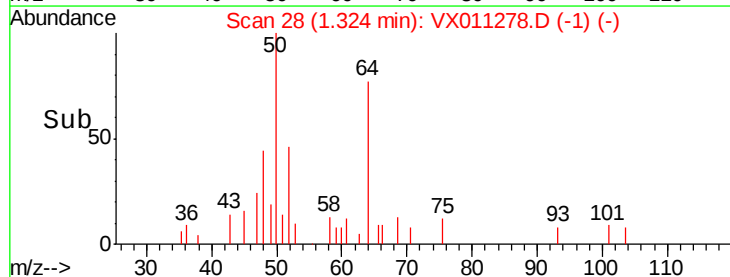
600

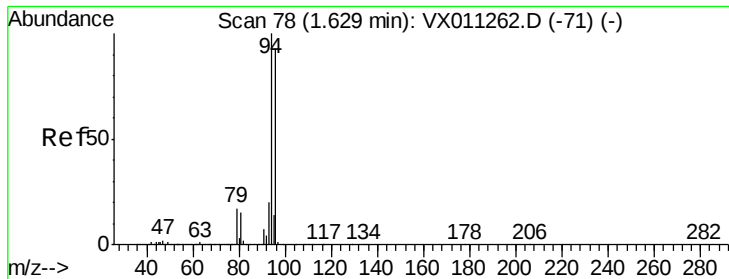
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.408 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

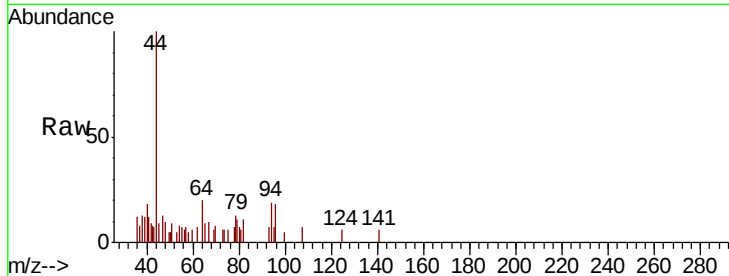
SA-DUP01-20190730

Tot Ion: 94 Resp: 388

Ion Ratio Lower Upper

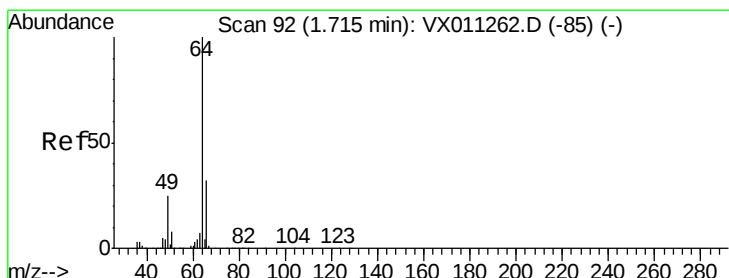
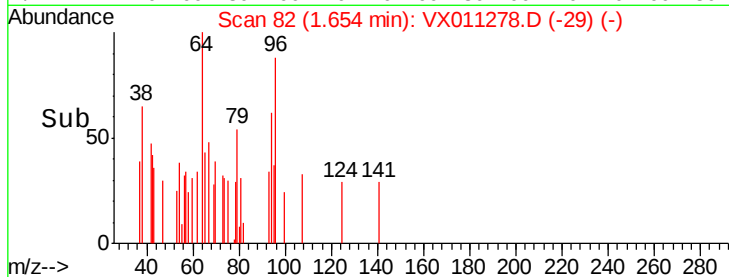
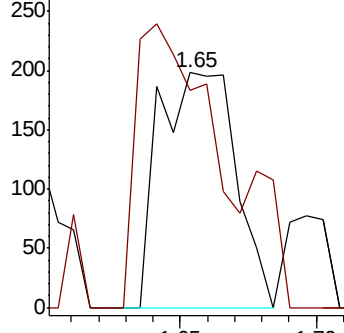
94 100

96 92.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 87

Delta R.T. -0.03 min

Lab File: VX011278.D

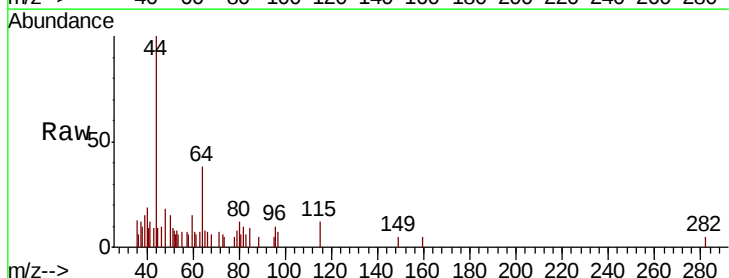
Acq: 01 Aug 2019 23:14

Tgt Ion: 64 Resp: 227

Ion Ratio Lower Upper

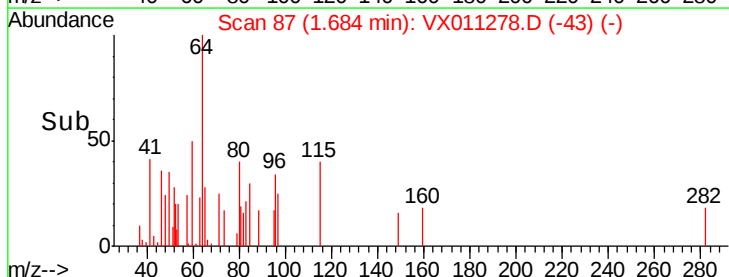
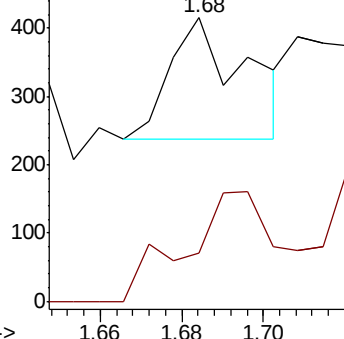
64 100

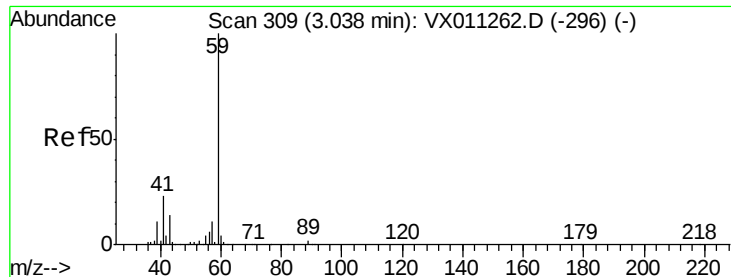
66 40.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

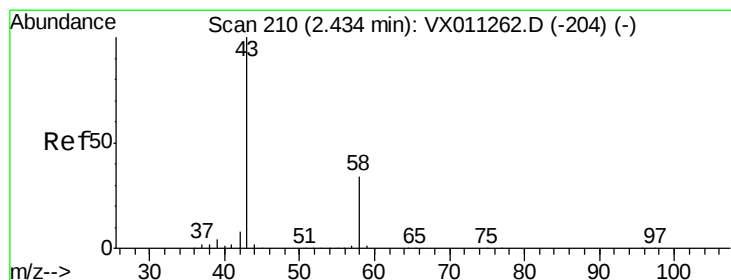
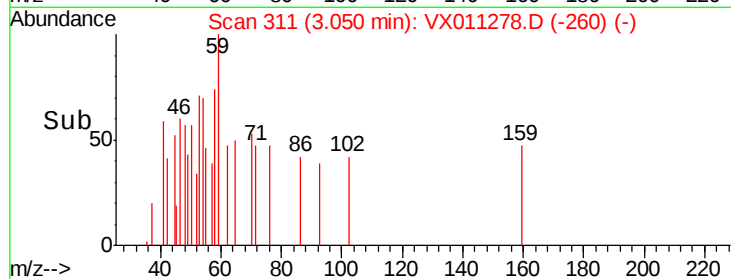
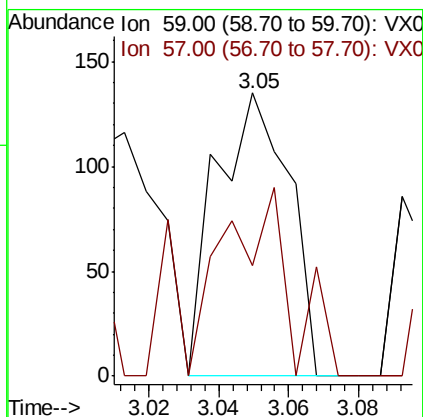
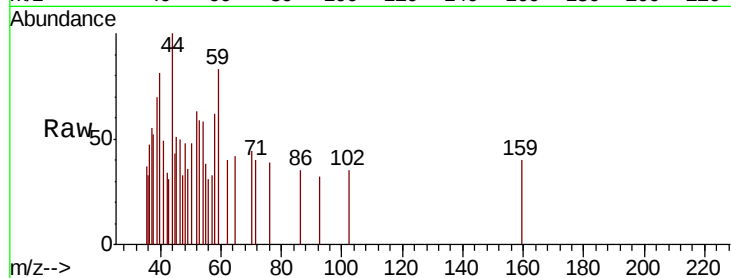




#11
Tert butyl alcohol
Concen: 0.717 ug/l
RT: 3.05 min Scan# 311
Delta R.T. 0.01 min
Lab File: VX011278.D
Acq: 01 Aug 2019 23:14

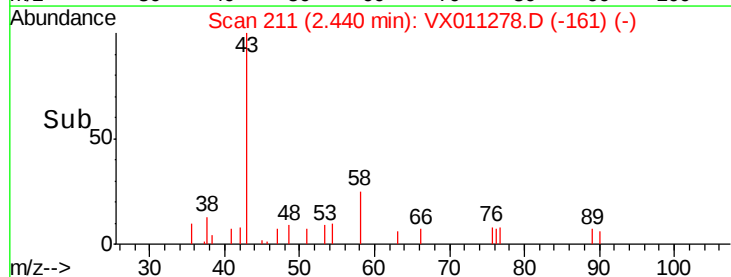
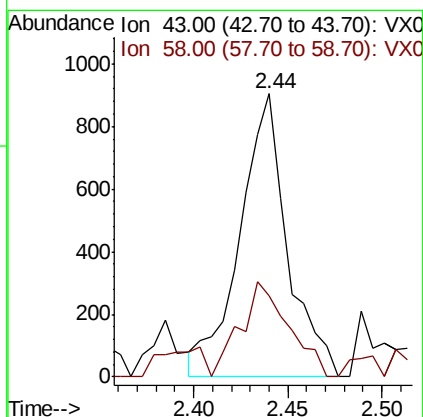
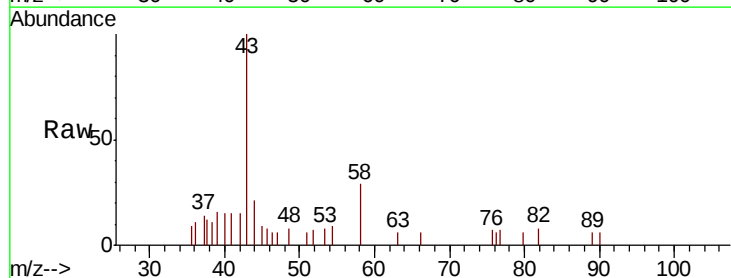
Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20190730

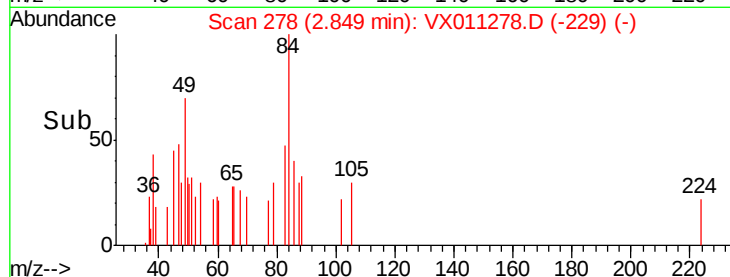
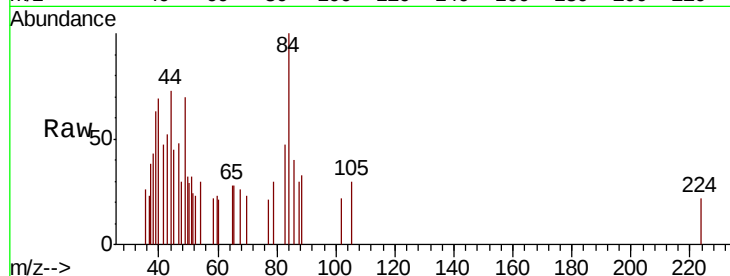
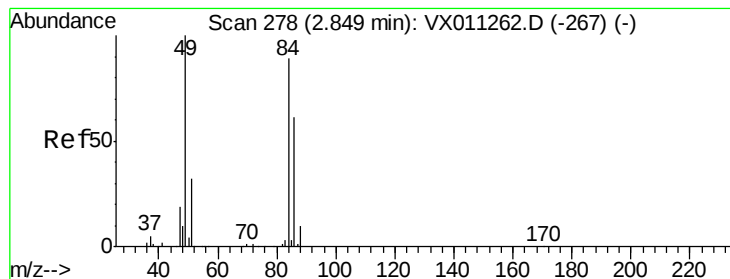
Tot Ion: 59 Resp: 195
Ion Ratio Lower Upper
59 100
57 61.0 8.3 12.5#



#16
Acetone
Concen: 2.368 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.01 min
Lab File: VX011278.D
Acq: 01 Aug 2019 23:14

Tgt Ion: 43 Resp: 1588
Ion Ratio Lower Upper
43 100
58 28.8 27.4 41.0





#20

Methylene Chloride

Concen: 0.294 ug/l

RT: 2.85 min Scan# 278

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20190730

Tot Ion: 84 Resp: 431

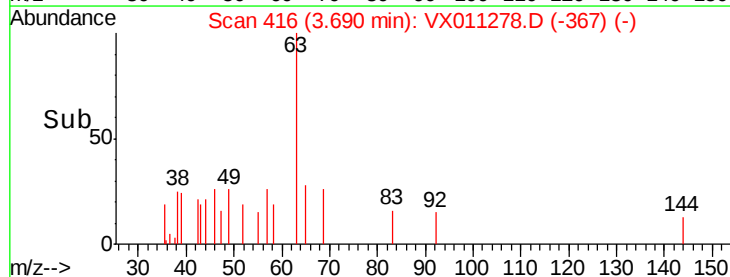
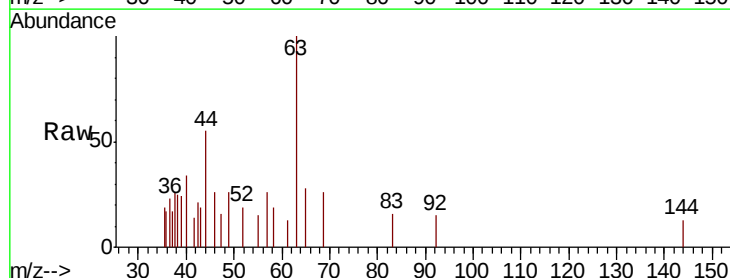
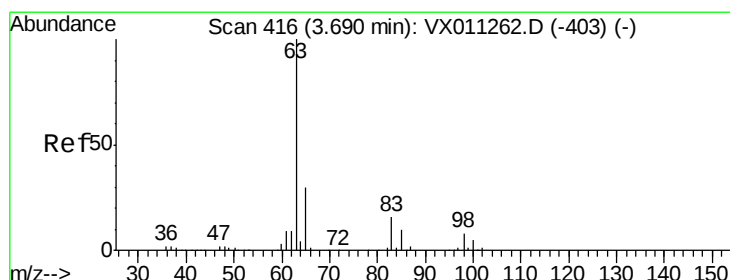
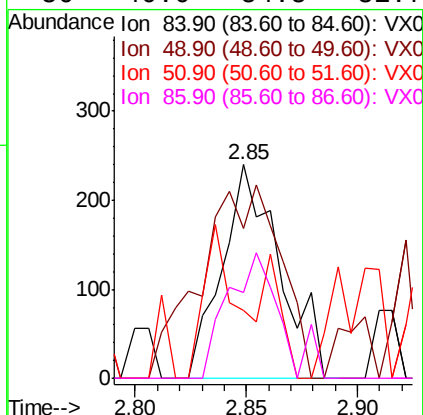
Ion Ratio Lower Upper

84 100

49 79.2 89.3 133.9#

51 32.1 28.3 42.5

86 40.0 54.5 81.7#



#24

1,1-Dichloroethane

Concen: 0.410 ug/l

RT: 3.69 min Scan# 416

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

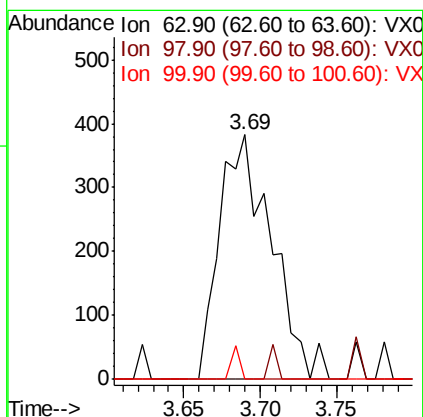
Tgt Ion: 63 Resp: 902

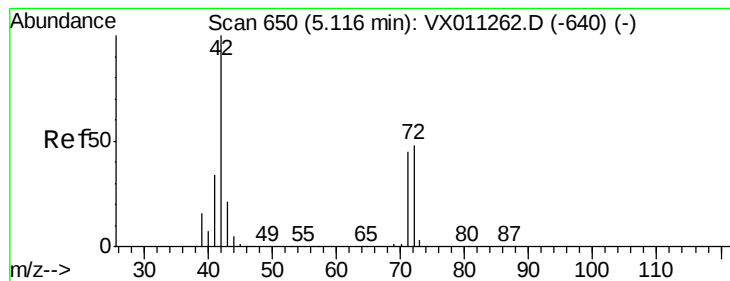
Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.5#

100 0.0 2.7 8.1#





#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.02 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20190730

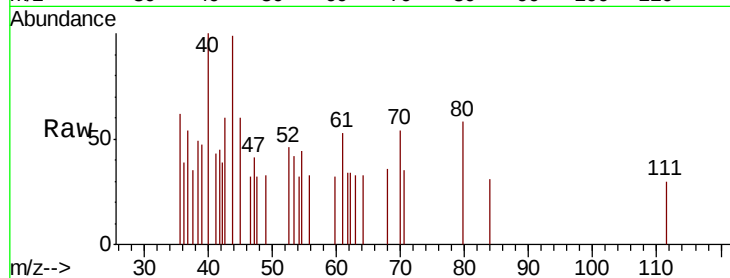
Tot Ion: 42 Resp: 168

Ion Ratio Lower Upper

42 100

72 58.3 39.9 59.9

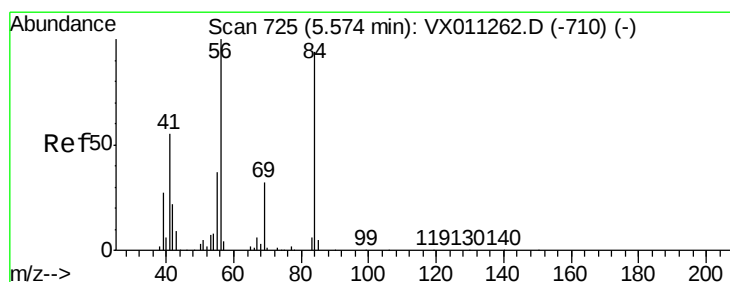
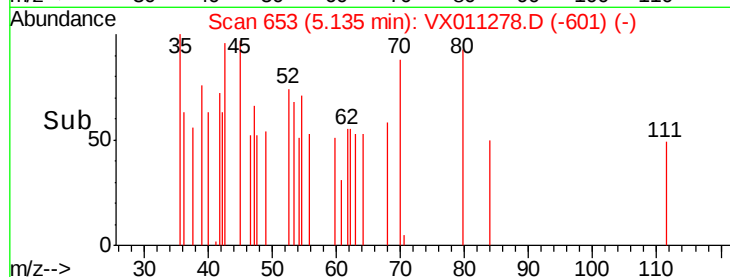
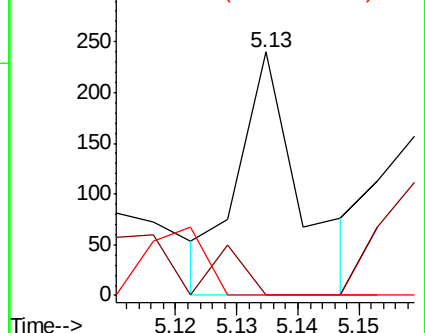
71 26.8 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.522 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

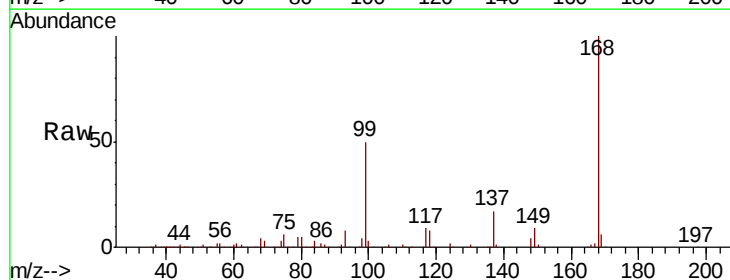
Tgt Ion: 56 Resp: 2761

Ion Ratio Lower Upper

56 100

69 143.2 25.5 38.3#

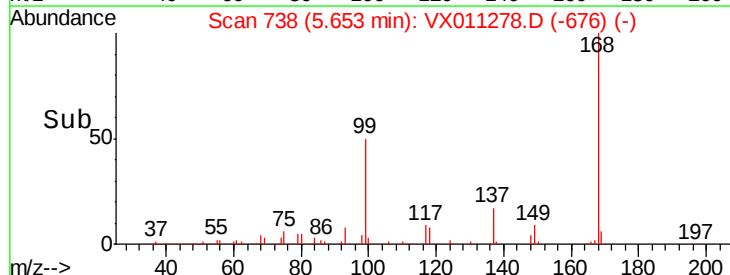
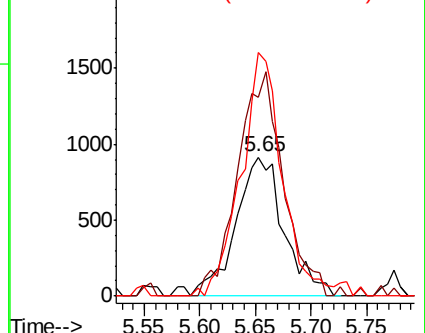
84 175.4 75.0 112.4#

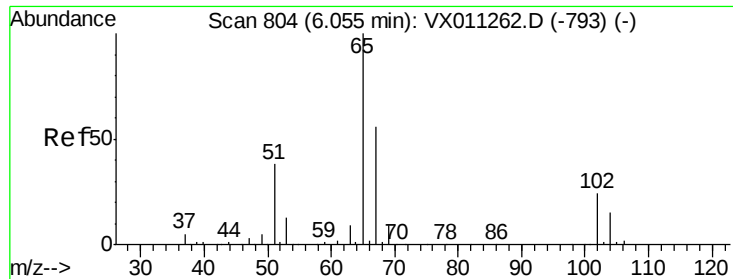


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.663 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

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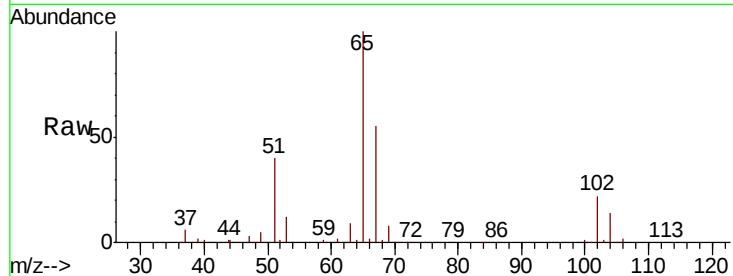
SA-DUP01-20190730

Tot Ion: 65 Resp: 74182

Ion Ratio Lower Upper

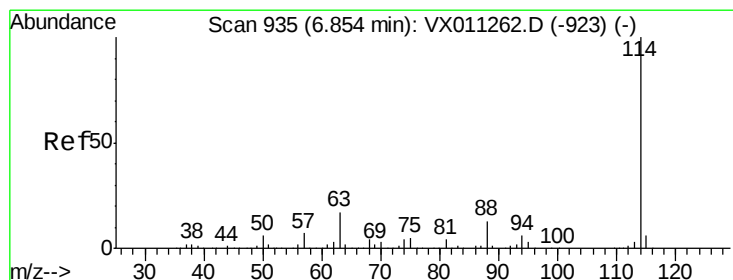
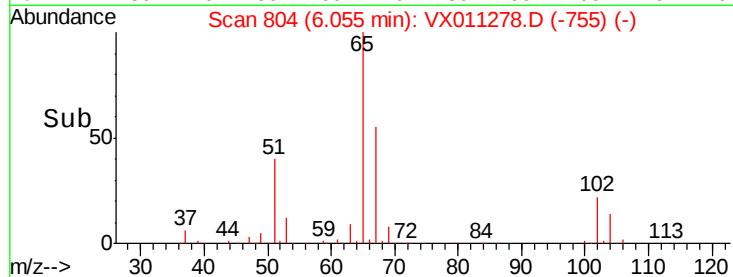
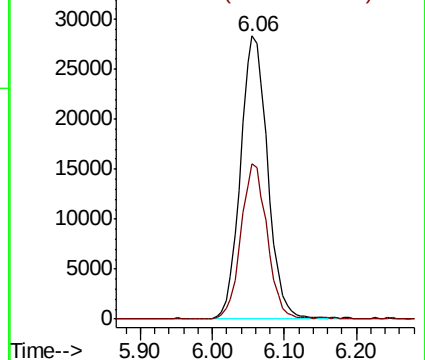
65 100

67 52.7 0.0 110.6



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: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

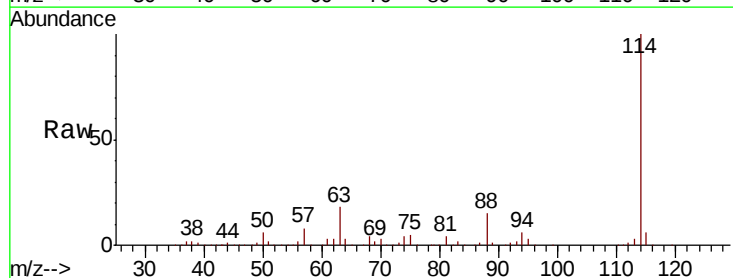
Tgt Ion: 114 Resp: 223700

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.0

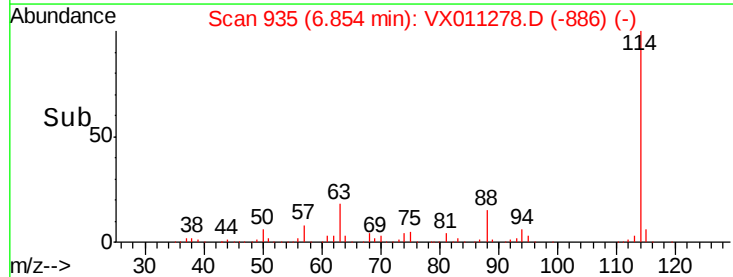
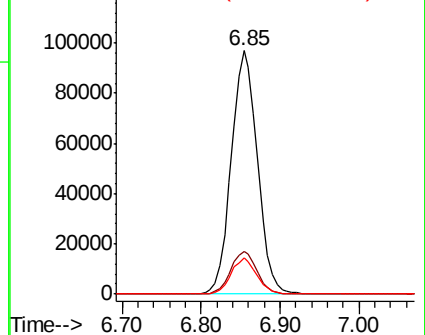
88 14.9 0.0 26.4

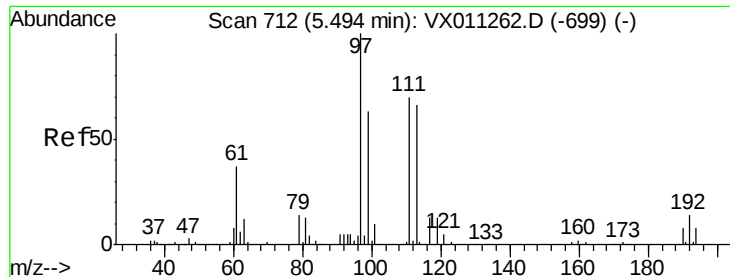


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.272 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

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SA-DUP01-20190730

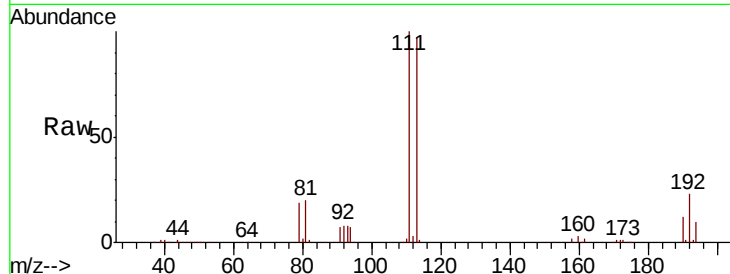
Tot Ion:113 Resp: 70500

Ion Ratio Lower Upper

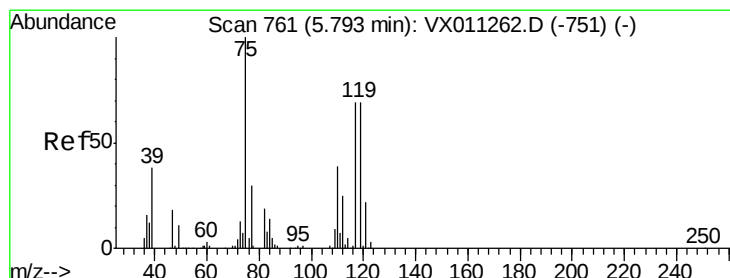
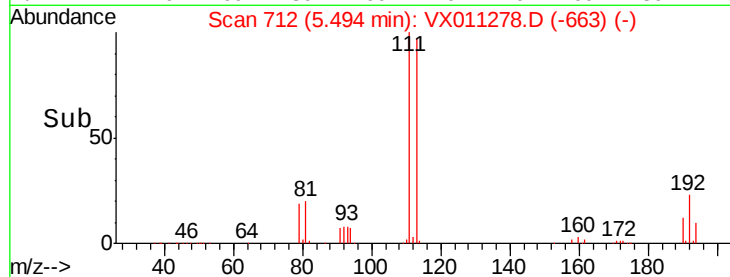
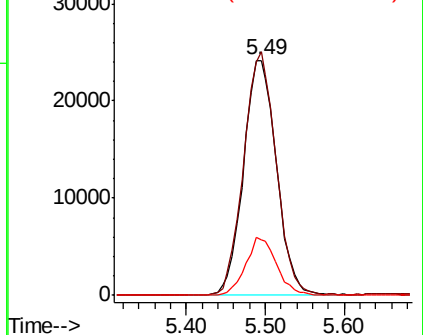
113 100

111 101.4 81.9 122.9

192 22.8 17.8 26.8



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: 4.561 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

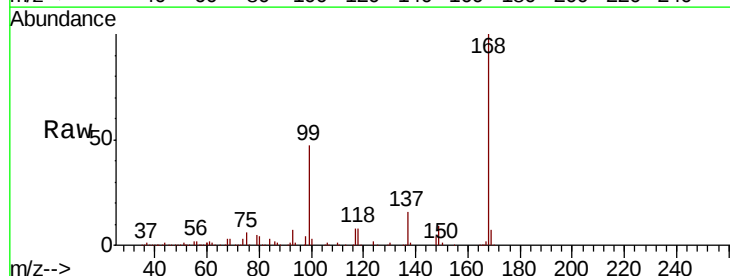
Tgt Ion: 75 Resp: 8908

Ion Ratio Lower Upper

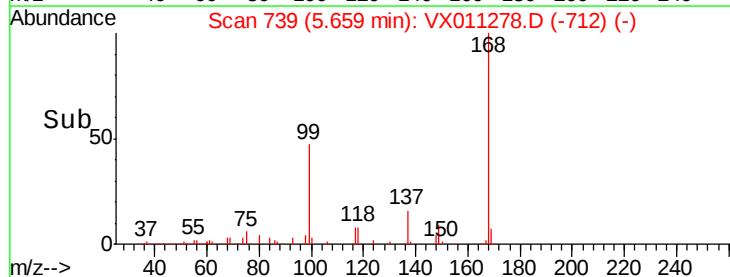
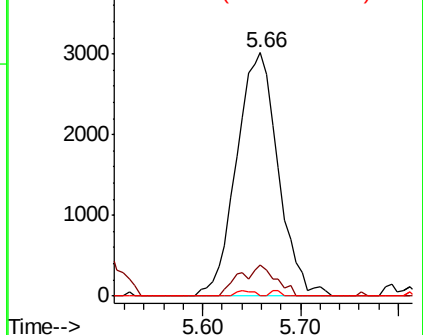
75 100

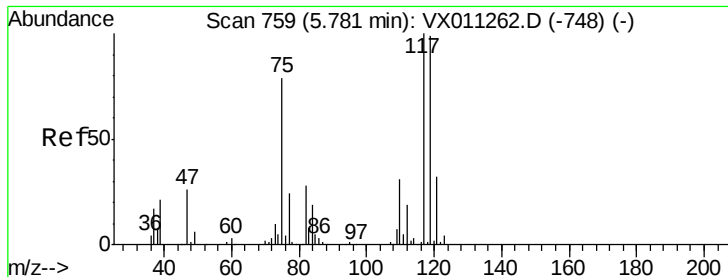
110 11.2 20.0 59.9#

77 0.5 24.8 37.2#



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: 6.443 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20190730

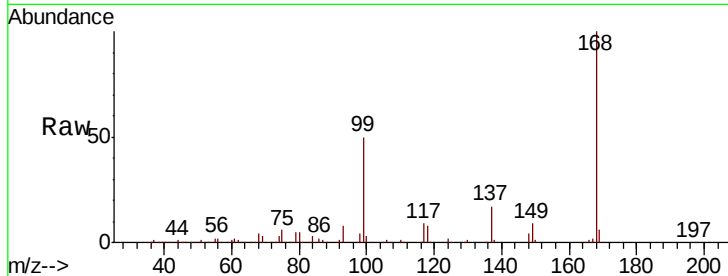
Tot Ion:117 Resp: 12661

Ion Ratio Lower Upper

117 100

119 3.9 79.0 118.4#

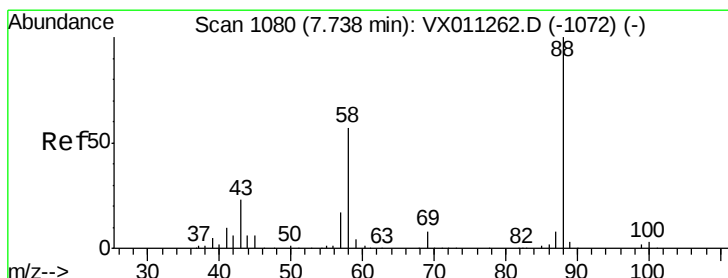
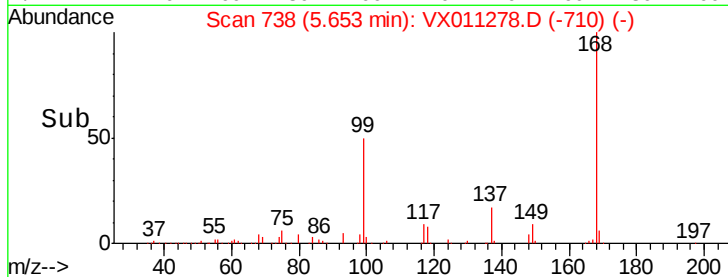
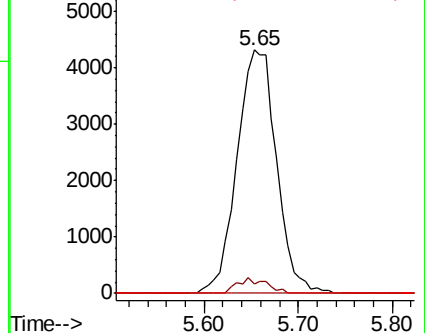
121 0.0 25.9 38.9#



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: 1.310 ug/l

RT: 7.72 min Scan# 1077

Delta R.T. -0.02 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

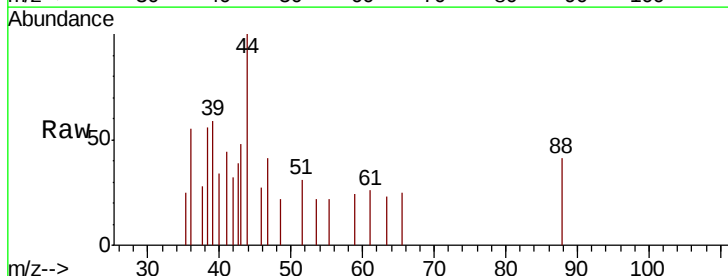
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 287.5 22.2 33.2#

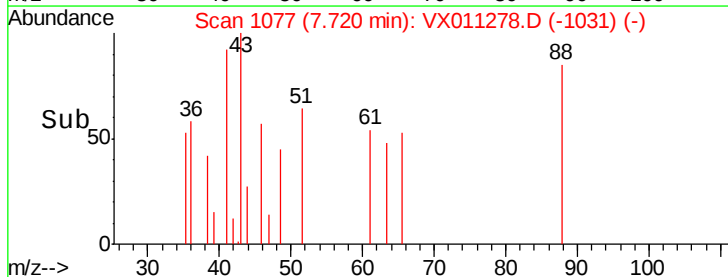
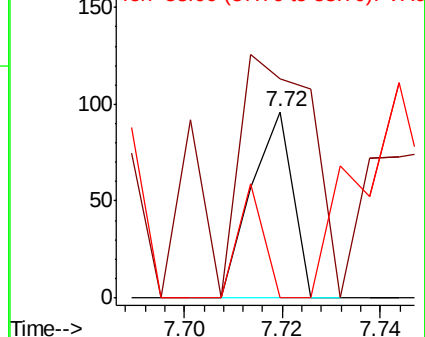
58 39.3 47.8 71.8#

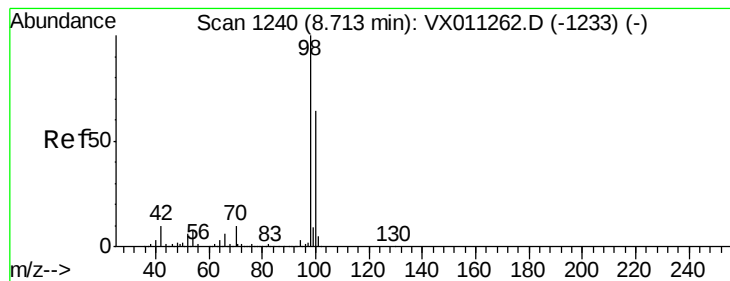


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.292 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

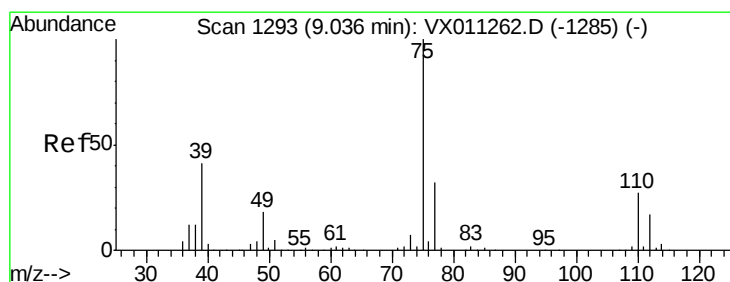
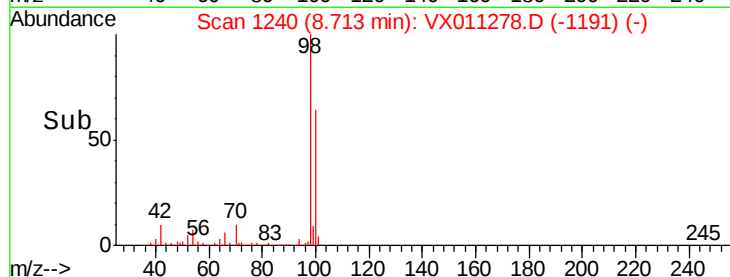
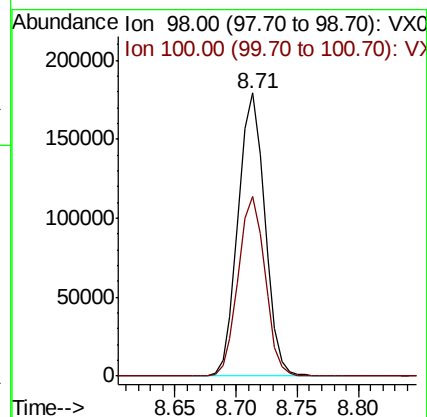
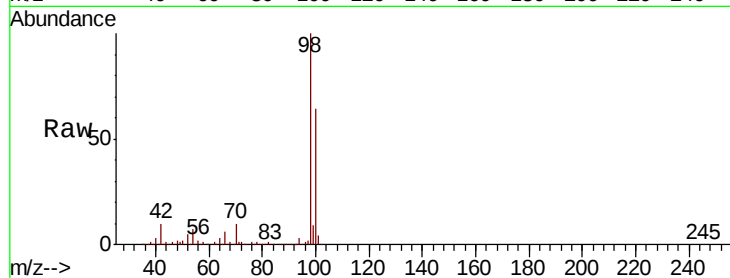
SA-DUP01-20190730

Tot Ion: 98 Resp: 271741

Ion Ratio Lower Upper

98 100

100 63.7 51.7 77.5



#53

t-1,3-Dichloropropene

Concen: 2.849 ug/l

RT: 9.02 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VX011278.D

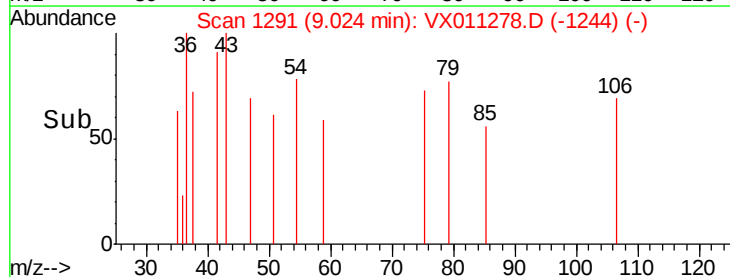
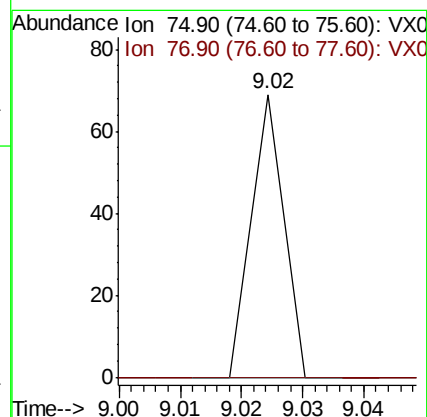
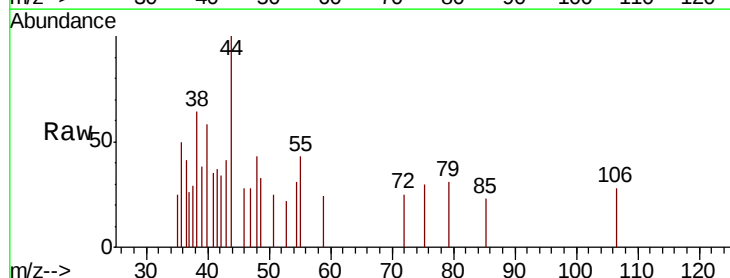
Acq: 01 Aug 2019 23:14

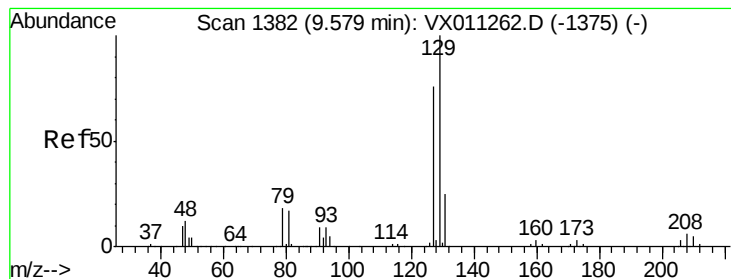
Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#





#60

Dibromochloromethane

Concen: 1.556 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

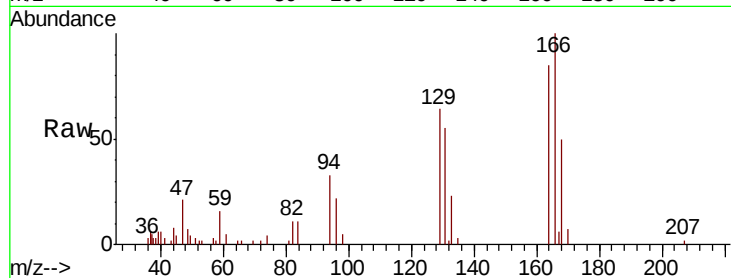
SA-DUP01-20190730

Tot Ion:129 Resp: 2524

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.34

1500

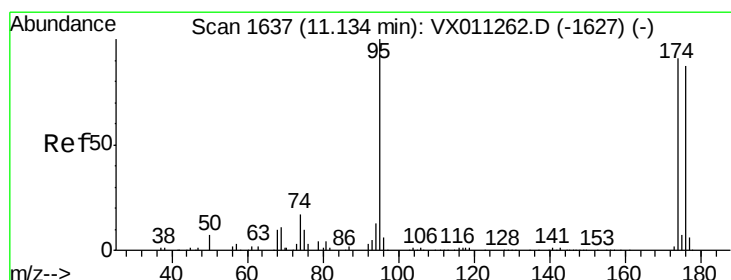
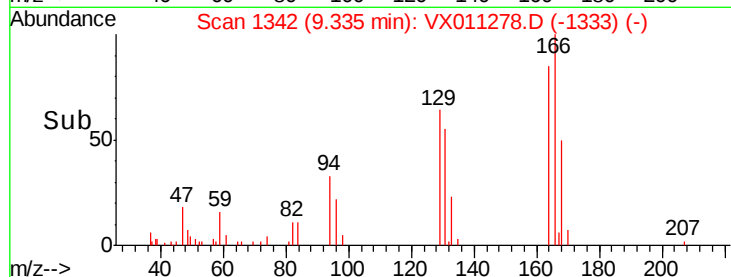
1000

500

0

9.30 9.35 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 45.690 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

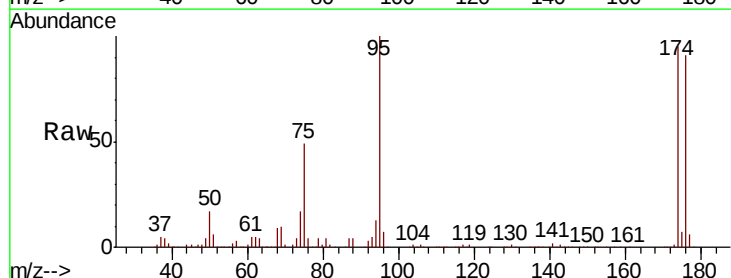
Tgt Ion: 95 Resp: 89929

Ion Ratio Lower Upper

95 100

174 96.9 0.0 191.2

176 92.8 0.0 184.8



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

100000

80000

60000

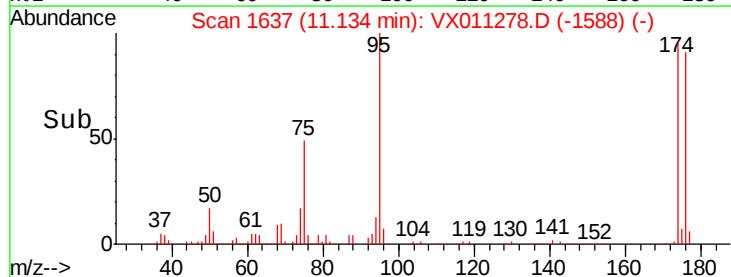
40000

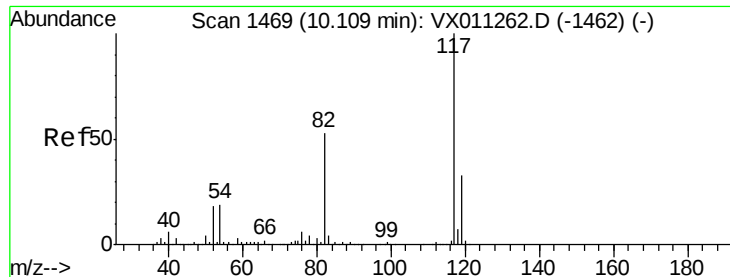
20000

0

11.05 11.10 11.15 11.20

Time-->

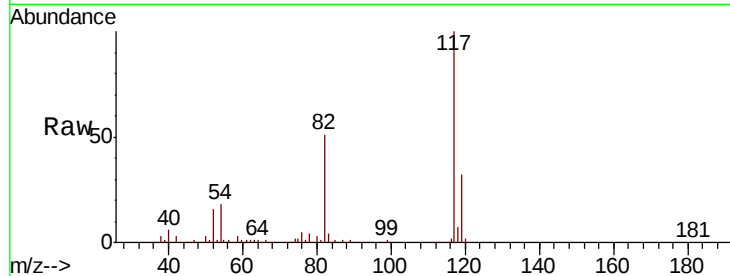




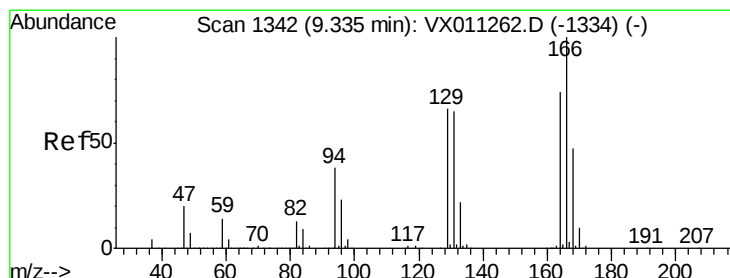
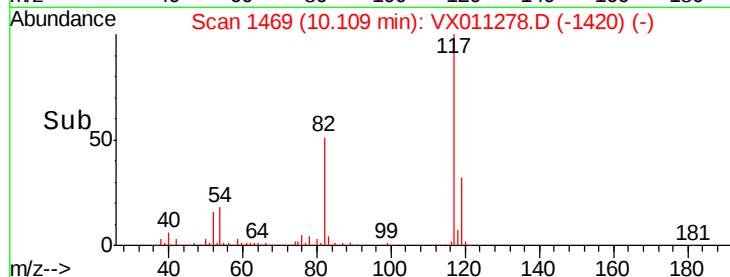
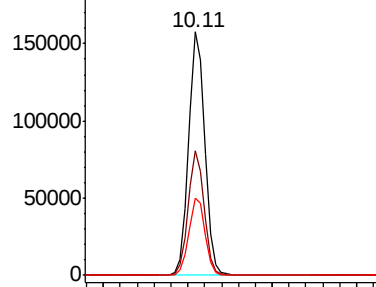
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011278.D
Acq: 01 Aug 2019 23:14

Instrument :
MSVOA_X
ClientSampleId :
SA-DUP01-20190730

Tot Ion:117 Resp: 211425
Ion Ratio Lower Upper
117 100
82 51.0 42.2 63.2
119 31.9 26.6 39.8

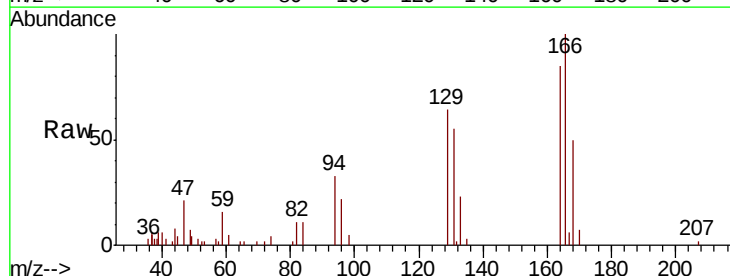


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

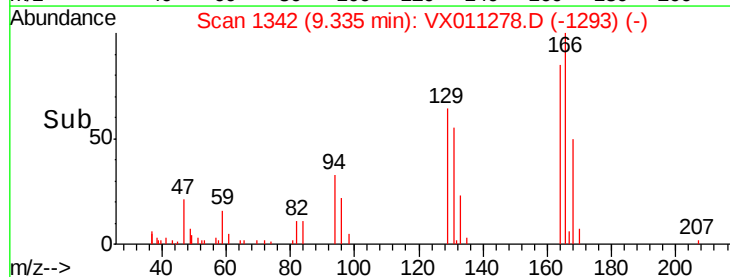
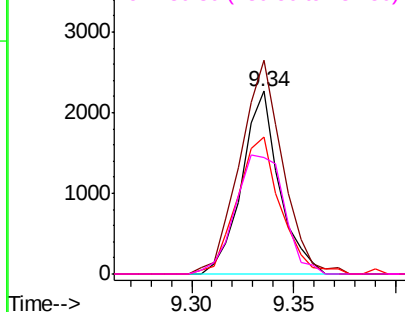


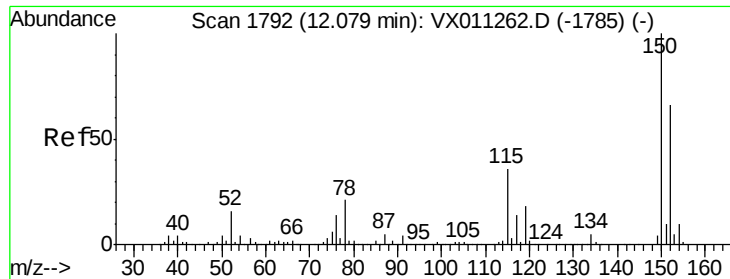
#64
Tetrachloroethene
Concen: 1.605 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX011278.D
Acq: 01 Aug 2019 23:14

Tgt Ion:164 Resp: 2881
Ion Ratio Lower Upper
164 100
166 117.1 107.5 161.3
129 75.3 71.0 106.4
131 64.2 69.8 104.6#



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: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20190730

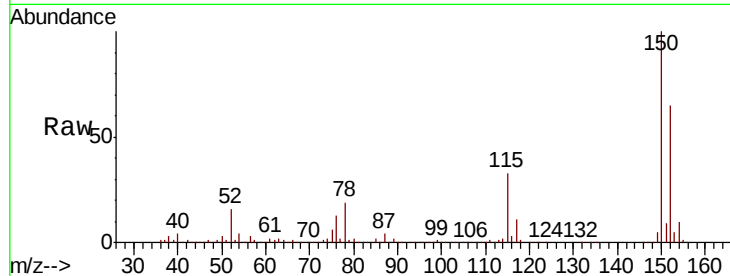
Tot Ion:152 Resp: 95088

Ion Ratio Lower Upper

152 100

115 54.9 40.0 119.9

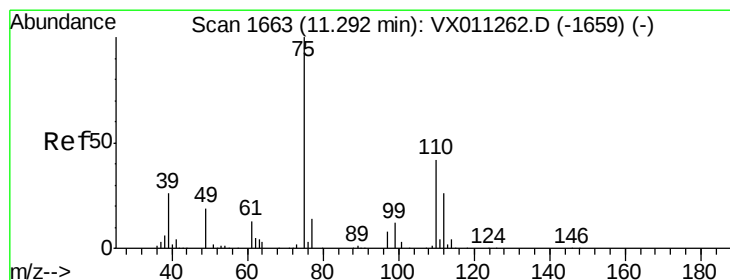
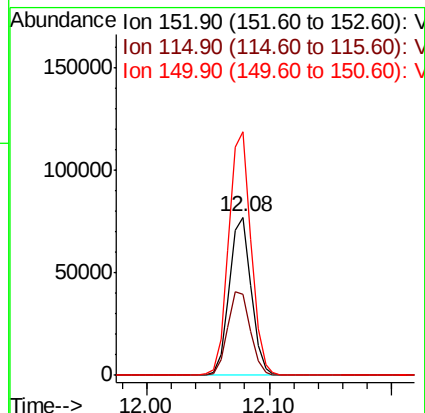
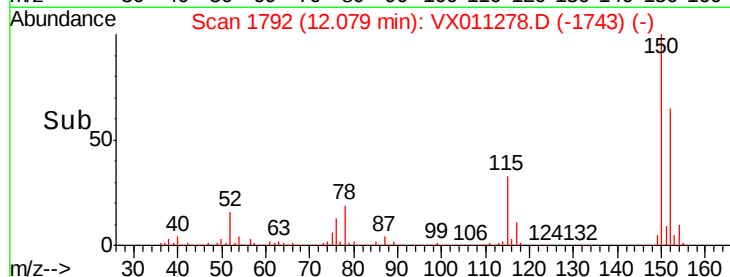
150 157.5 0.0 350.4



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



#76

1,2,3-Trichloropropane

Concen: 25.330 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011278.D

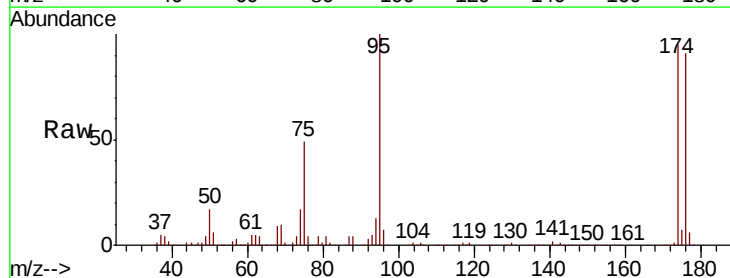
Acq: 01 Aug 2019 23:14

Tgt Ion: 75 Resp: 43864

Ion Ratio Lower Upper

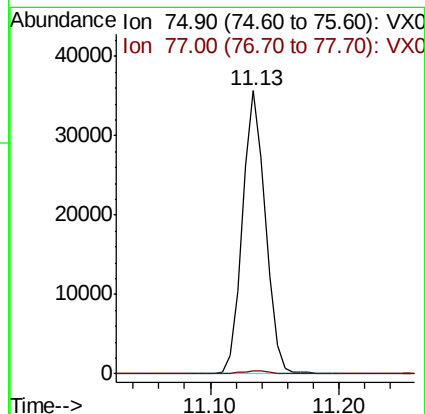
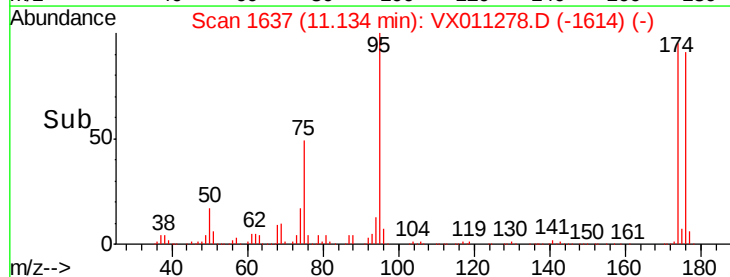
75 100

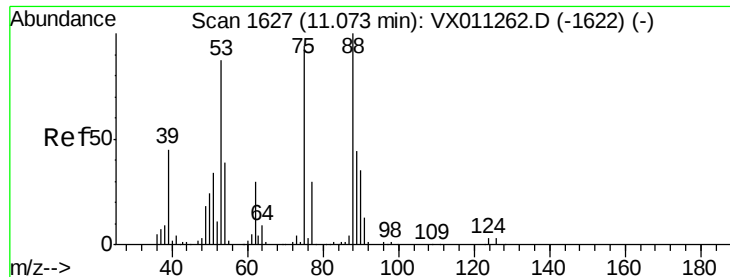
77 1.3 21.1 63.4#



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: 66.042 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

Instrument :

MSVOA_X

ClientSampleId :

SA-DUP01-20190730

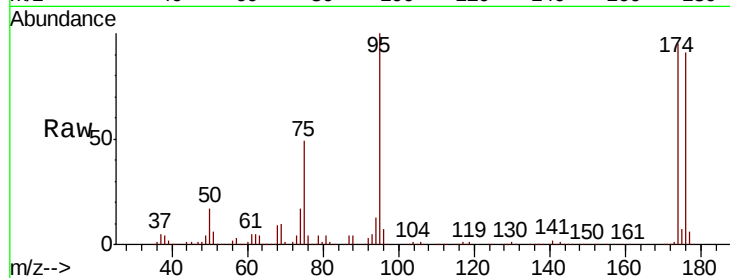
Tot Ion: 75 Resp: 43864

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

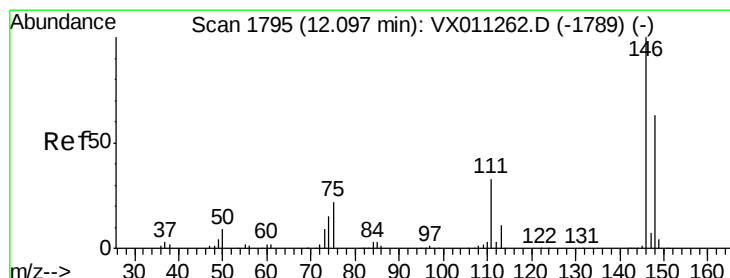
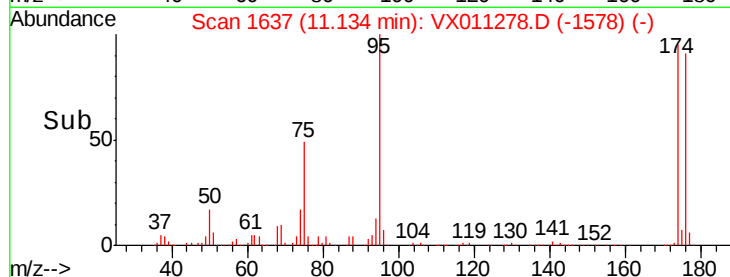
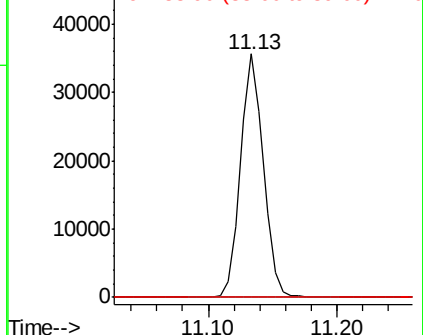
89 0.0 37.9 56.9#



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



#88

1,4-Dichlorobenzene

Concen: 0.249 ug/l

RT: 12.09 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VX011278.D

Acq: 01 Aug 2019 23:14

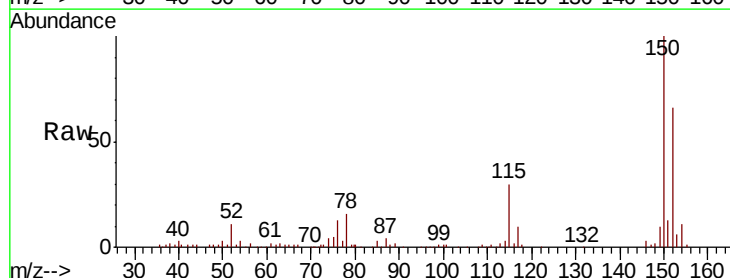
Tgt Ion: 146 Resp: 817

Ion Ratio Lower Upper

146 100

111 182.4 17.8 53.4#

148 127.7 31.8 95.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

