

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008898.D
 Acq On : 12 Apr 2019 19:47
 Operator : JC/SP
 Sample : K2367-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0709

Quant Time: Apr 13 05:01:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	185741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	296918	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	257649	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	109472	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	121562	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	
35) Dibromofluoromethane	5.50	113	88531	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	
50) Toluene-d8	8.71	98	374367	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	11.13	95	123780	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	

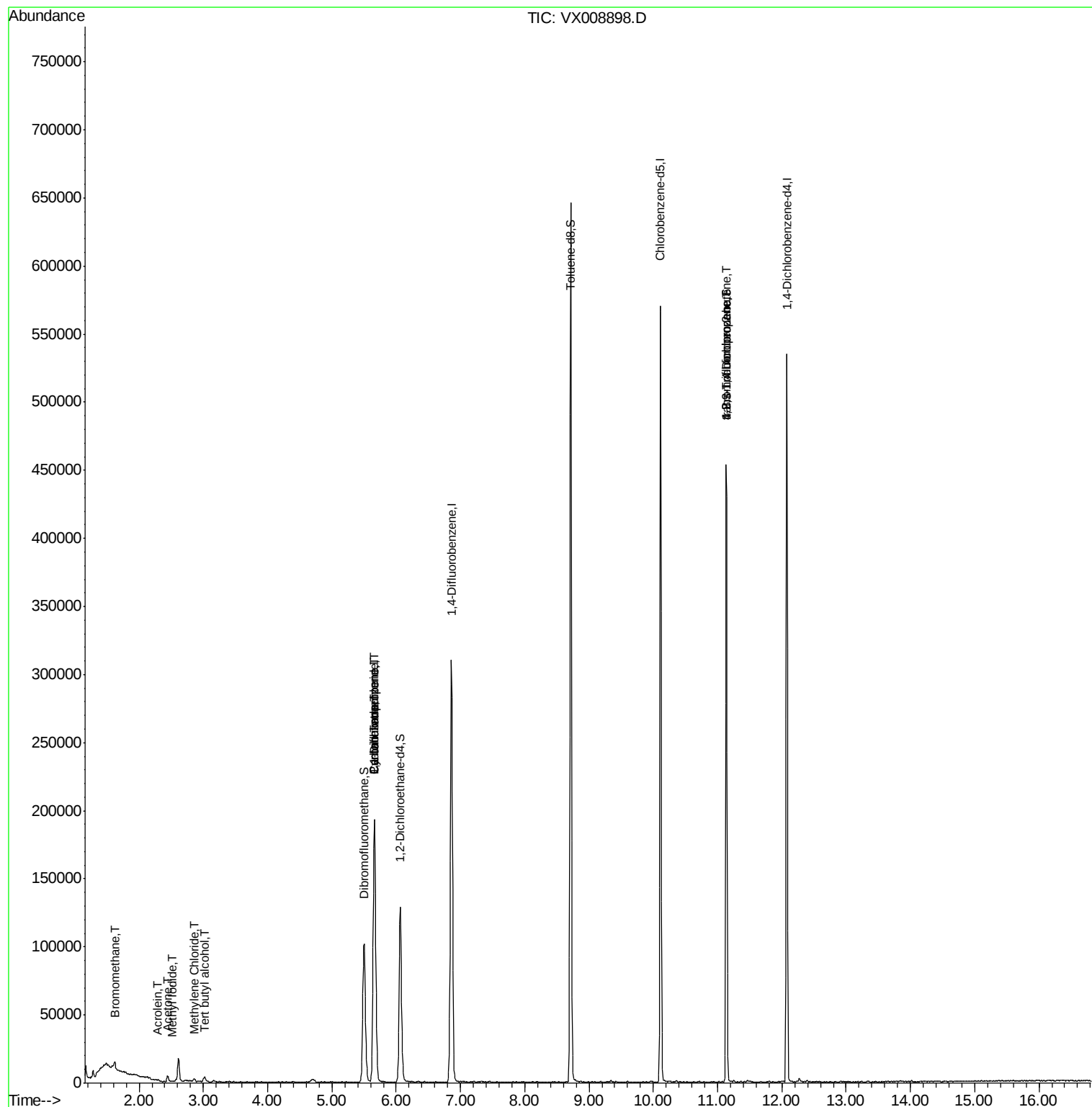
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	595	Below Cal	#	67
5) Bromomethane	1.64	94	581	2.278	ug/l	94
6) Chloroethane	1.90	64	299	Below Cal	#	70
10) Methyl Iodide	2.51	142	406	4.202	ug/l #	89
11) Tert butyl alcohol	3.01	59	2441	3.849	ug/l #	72
13) Acrolein	2.29	56	72	0.229	ug/l	99
16) Acetone	2.45	43	4921	3.154	ug/l #	88
17) Carbon Disulfide	2.57	76	2090	Below Cal	#	86
20) Methylene Chloride	2.86	84	765	0.293	ug/l #	91
28) Bromochloromethane	5.01	49	156	Below Cal	#	22
31) Cyclohexane	5.66	56	4150	0.887	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15023	4.629	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17674	6.579	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	63020	20.956	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63020	57.765	ug/l #	9

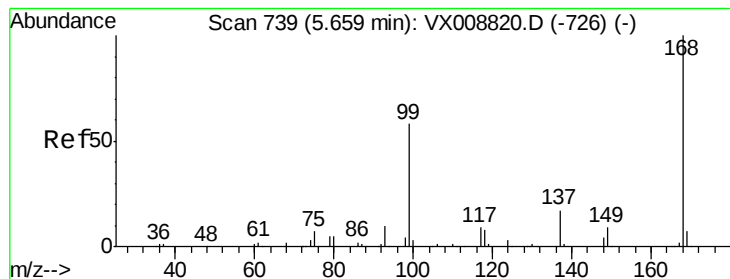
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

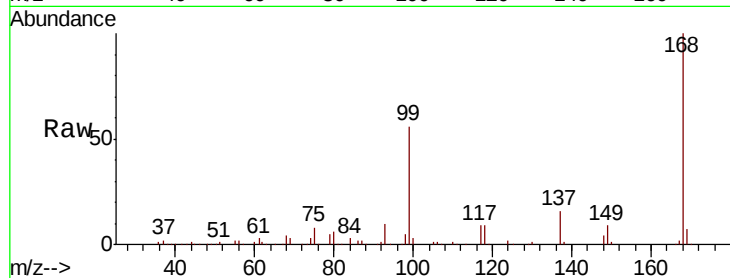
S8-0709

Tot Ion:168 Resp: 185741

Ion Ratio Lower Upper

168 100

99 55.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

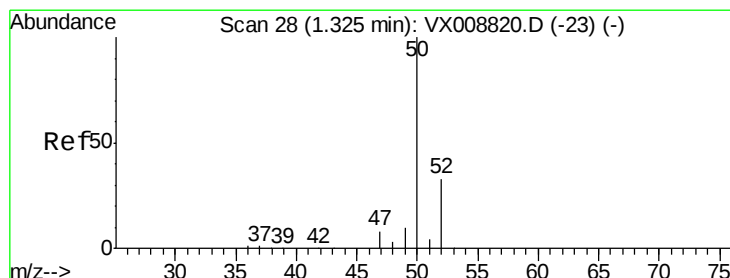
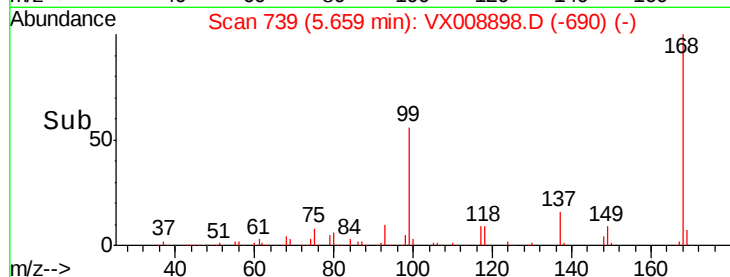
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008898.D

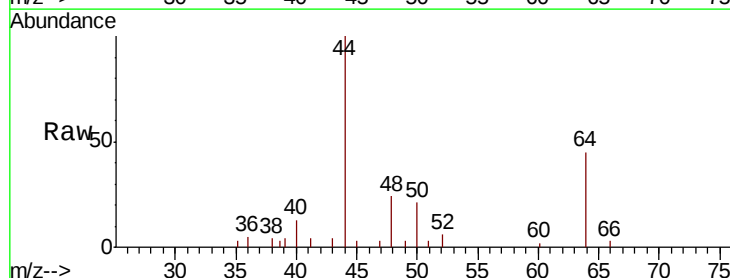
Acq: 12 Apr 2019 19:47

Tgt Ion: 50 Resp: 595

Ion Ratio Lower Upper

50 100

52 14.0 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

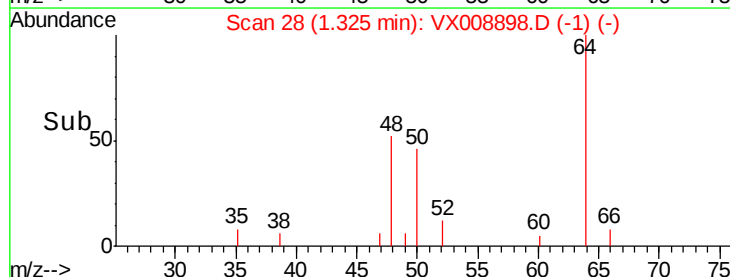
300

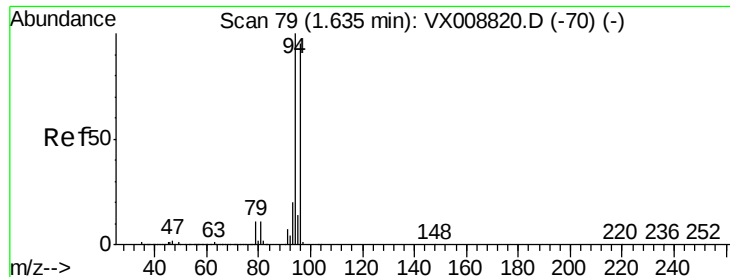
200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.278 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

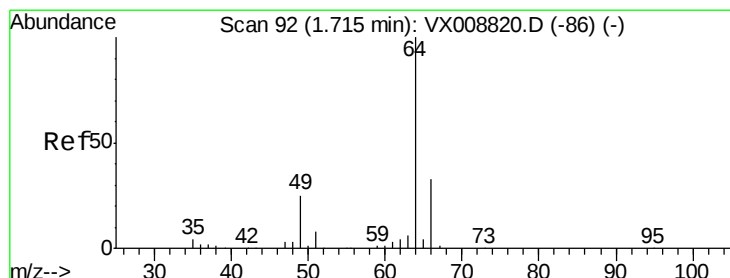
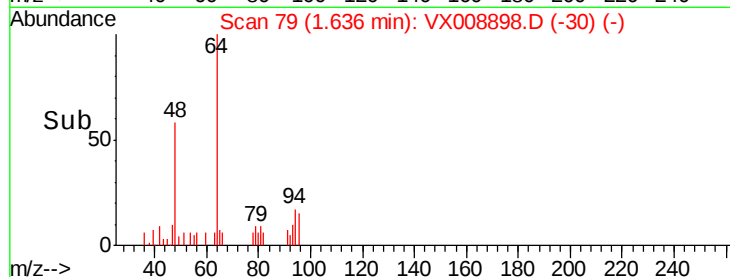
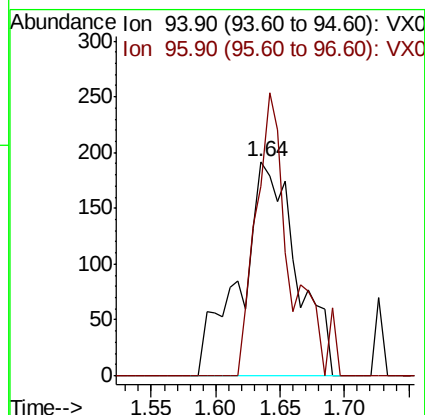
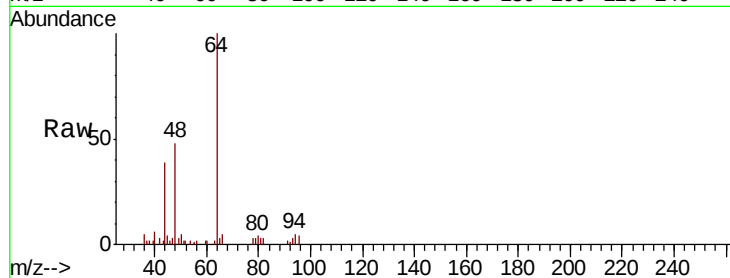
S8-0709

Tot Ion: 94 Resp: 581

Ion Ratio Lower Upper

94 100

96 88.5 75.2 112.8



#6

Chloroethane

Concen: Below Cal

RT: 1.90 min Scan# 123

Delta R.T. 0.19 min

Lab File: VX008898.D

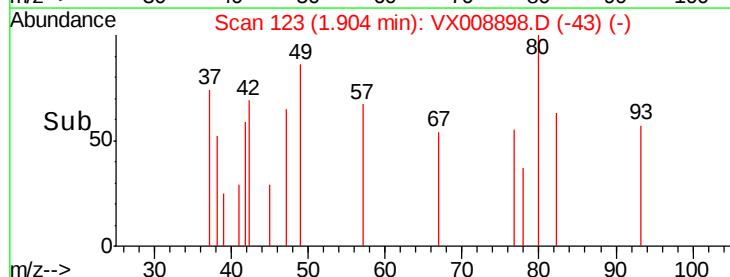
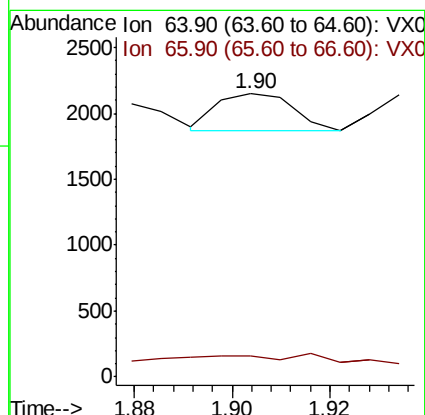
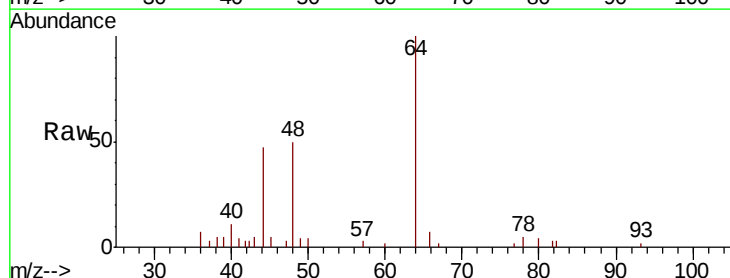
Acq: 12 Apr 2019 19:47

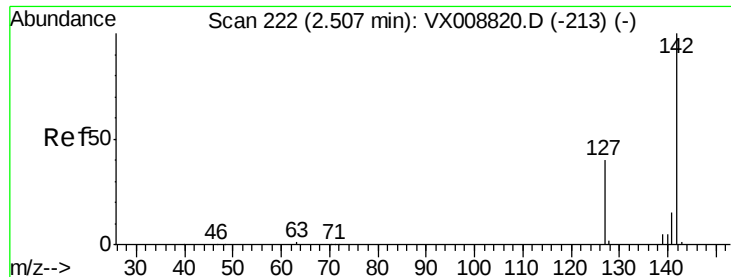
Tgt Ion: 64 Resp: 299

Ion Ratio Lower Upper

64 100

66 15.3 25.4 38.0#

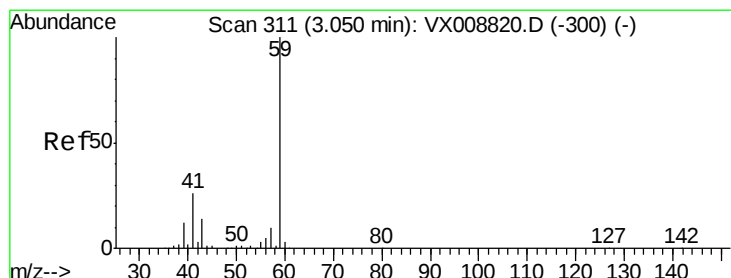
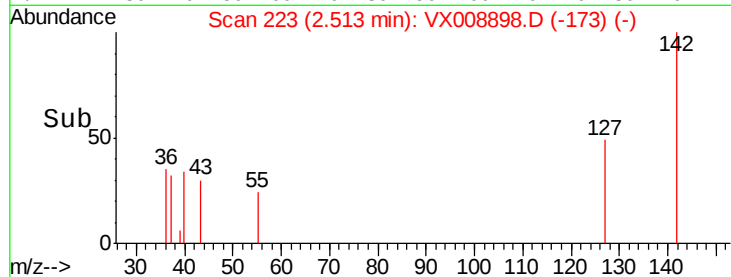
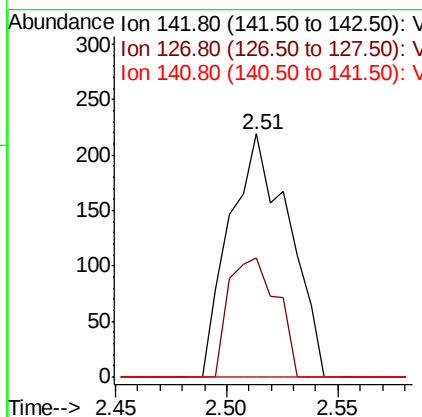
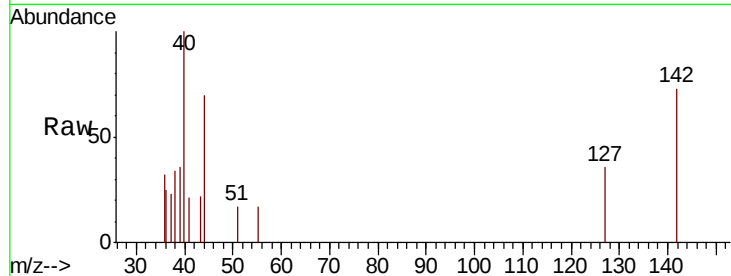




#10
Methvl Iodide
Concen: 4.202 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008898.D
Acq: 12 Apr 2019 19:47

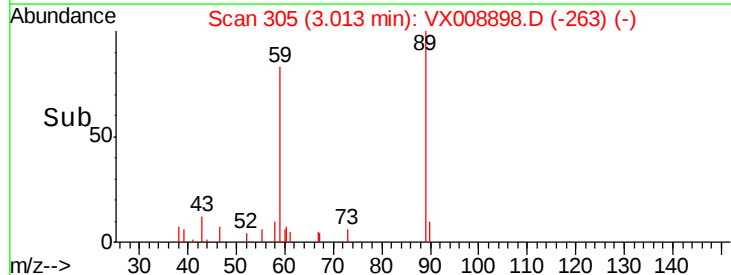
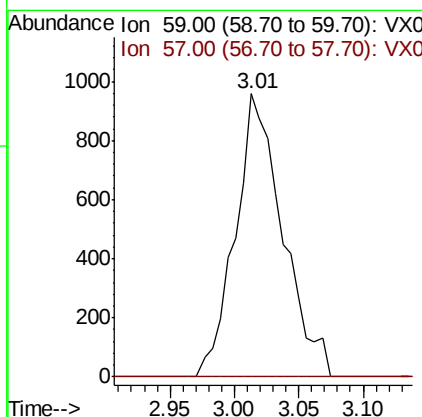
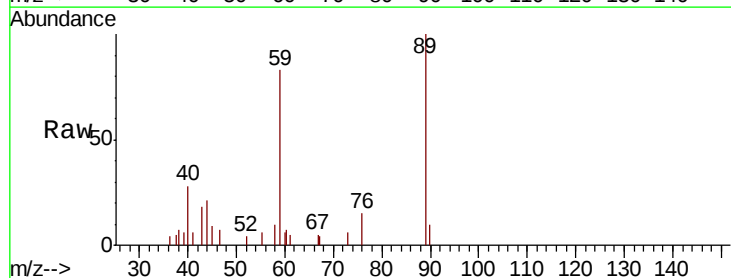
Instrument :
MSVOA_X
ClientSampleId :
S8-0709

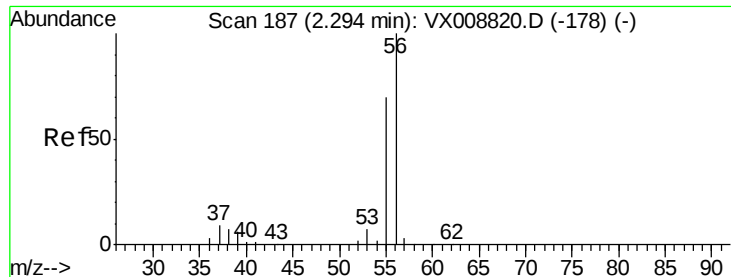
Tot Ion:142 Resp: 406
Ion Ratio Lower Upper
142 100
127 39.7 33.0 49.6
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 3.849 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008898.D
Acq: 12 Apr 2019 19:47

Tgt Ion: 59 Resp: 2441
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.229 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampled :

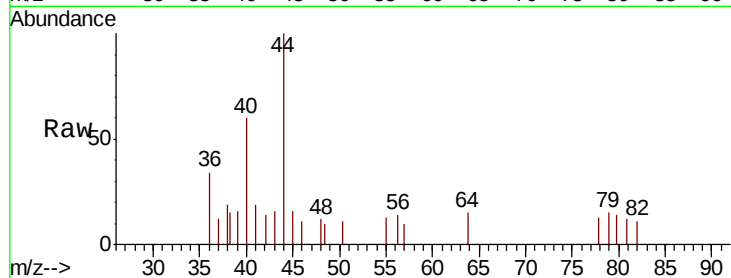
S8-0709

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

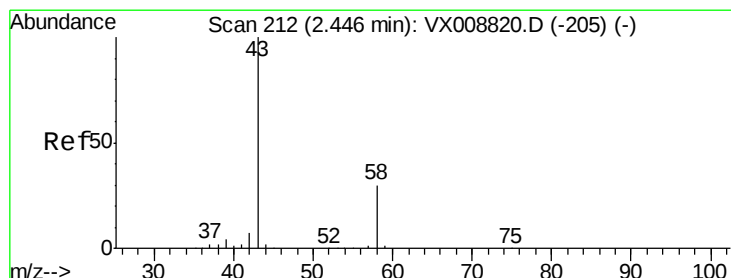
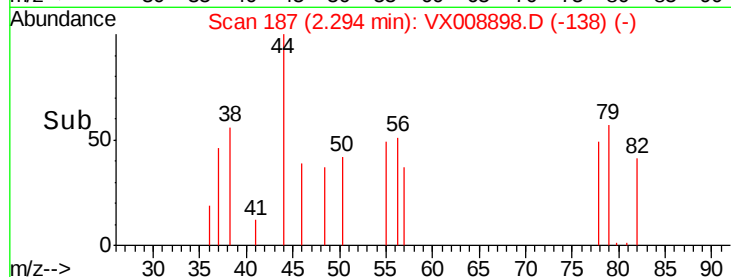
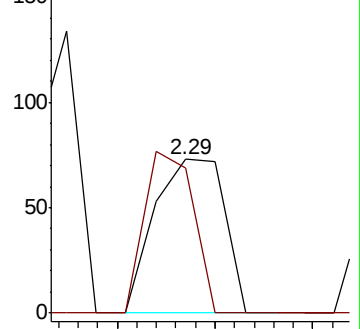
56 100

55 73.6 58.0 87.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 3.154 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008898.D

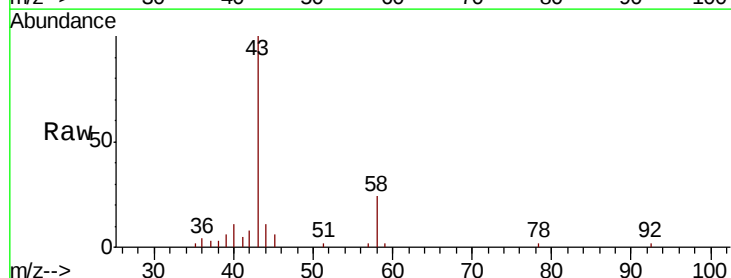
Acq: 12 Apr 2019 19:47

Tgt Ion: 43 Resp: 4921

Ion Ratio Lower Upper

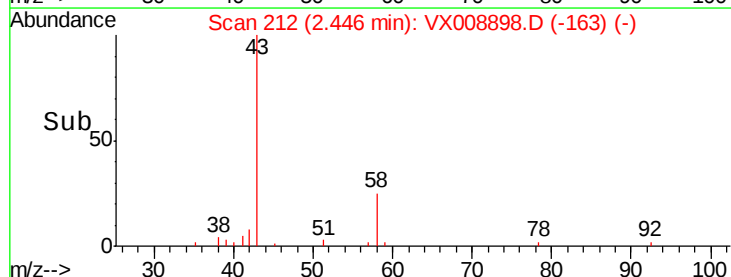
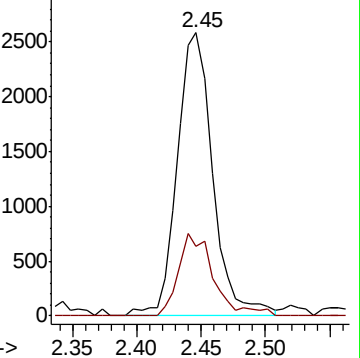
43 100

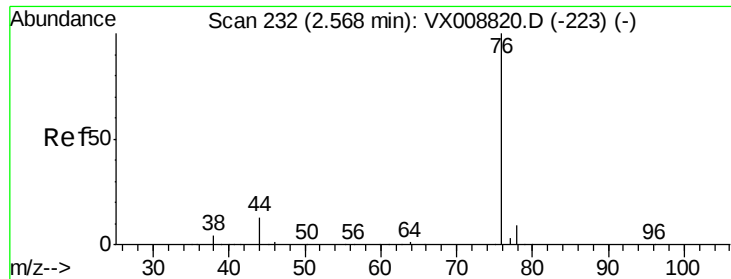
58 24.4 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

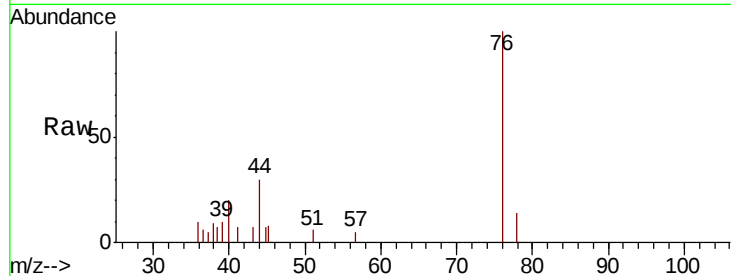
S8-0709

Tot Ion: 76 Resp: 2090

Ion Ratio Lower Upper

76 100

78 13.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1200

1000

800

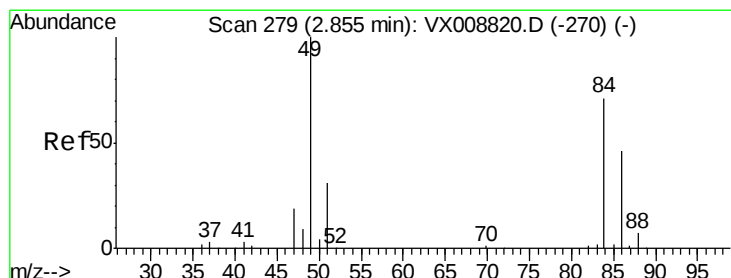
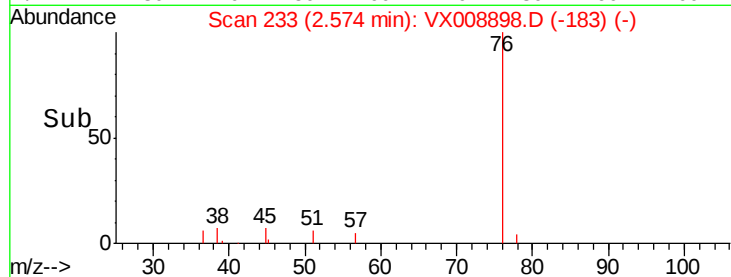
600

400

200

0

Time--> 2.50 2.55 2.60



#20

Methylene Chloride

Concen: 0.293 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Tgt Ion: 84 Resp: 765

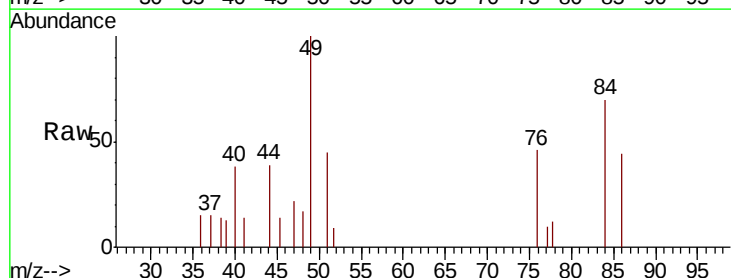
Ion Ratio Lower Upper

84 100

49 142.1 109.7 164.5

51 64.1 33.6 50.4#

86 62.3 51.4 77.2



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

800

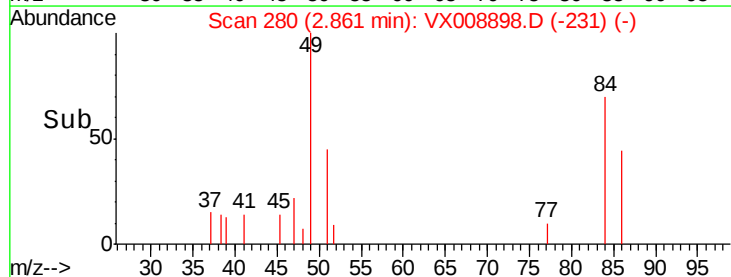
600

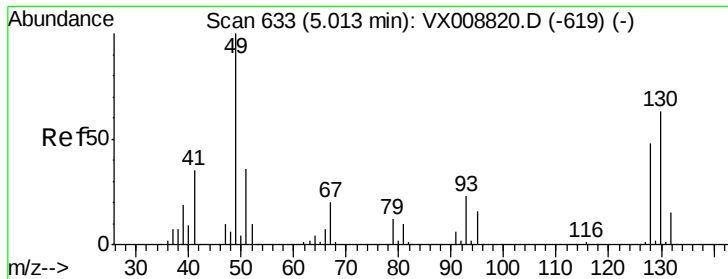
400

200

0

Time--> 2.80 2.85 2.90





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

S8-0709

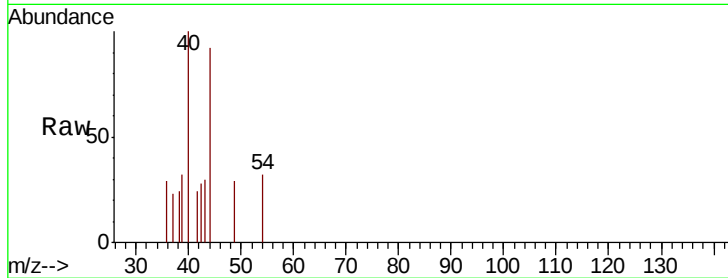
Tot Ion: 49 Resp: 156

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

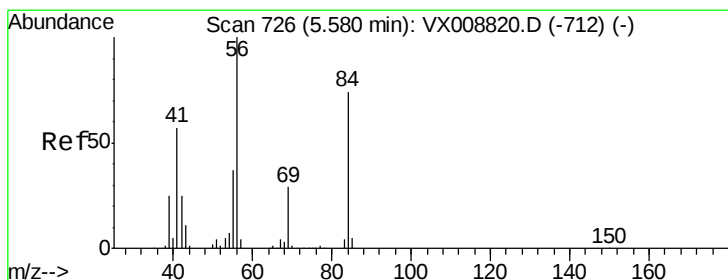
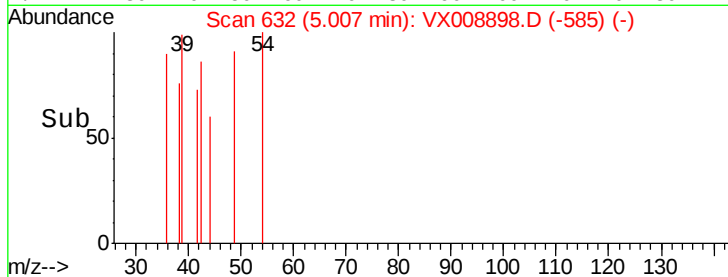
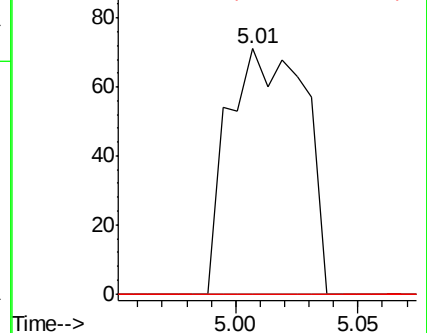
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.887 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

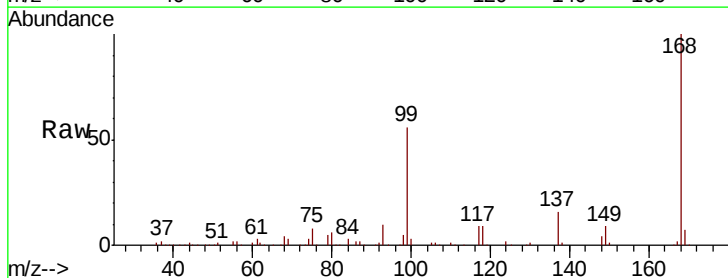
Tgt Ion: 56 Resp: 4150

Ion Ratio Lower Upper

56 100

69 162.6 22.6 33.8#

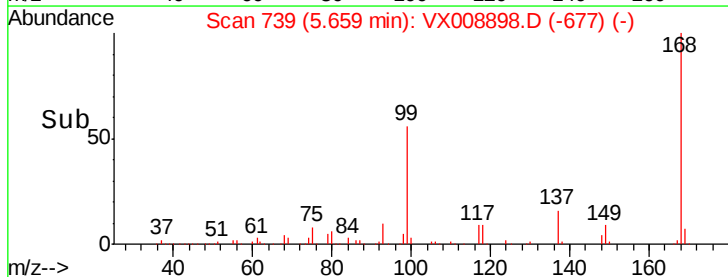
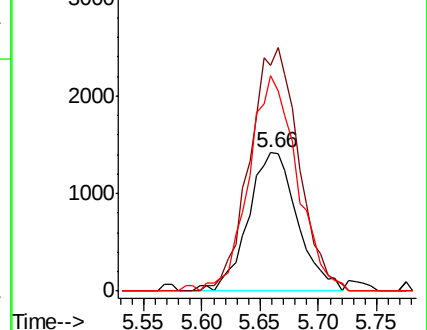
84 151.3 59.3 88.9#

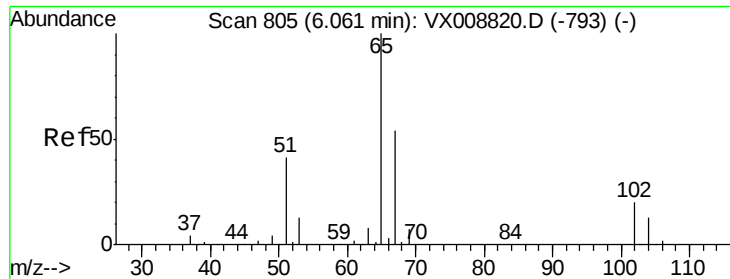


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

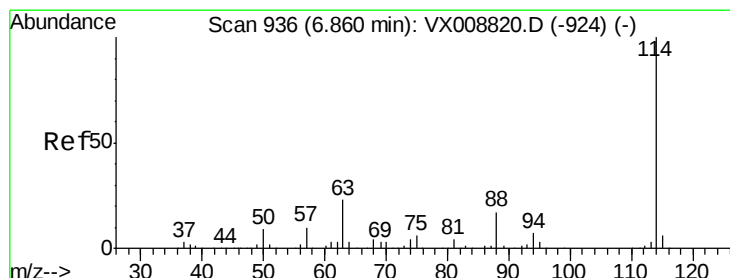
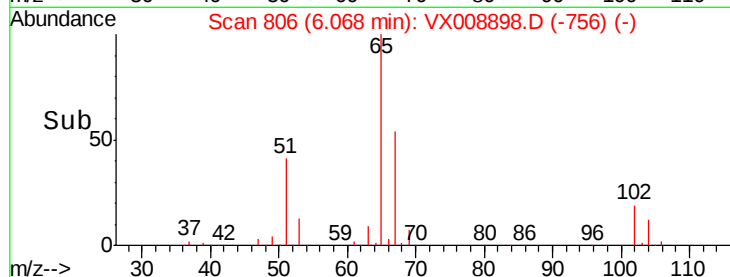
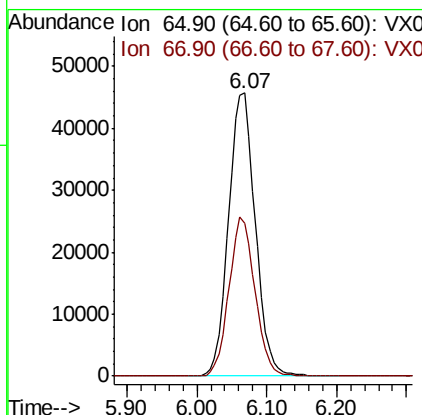
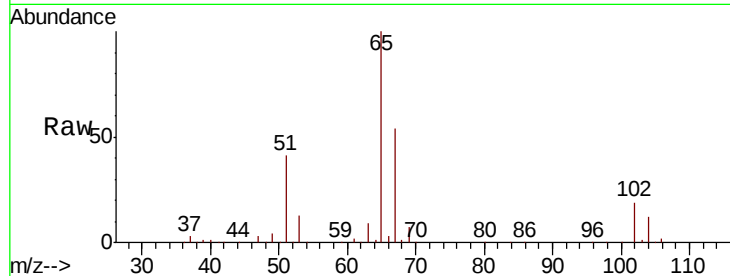




#33
 1,2-Dichloroethane-d4
 Concen: 44.871 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX008898.D
 Acq: 12 Apr 2019 19:47

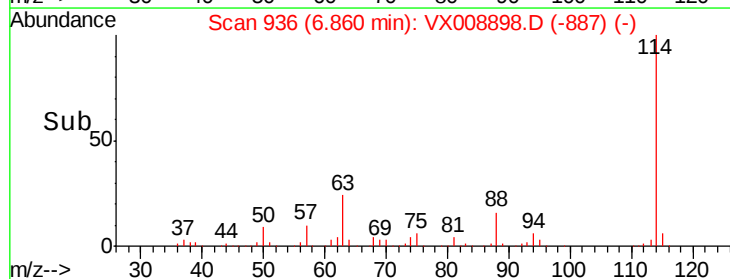
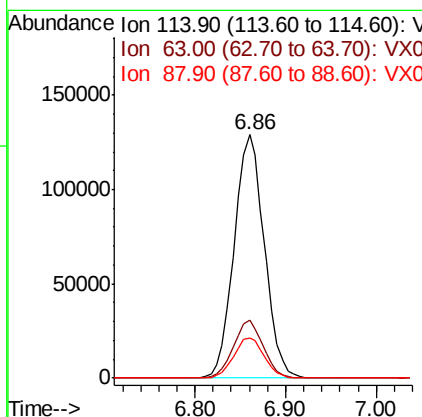
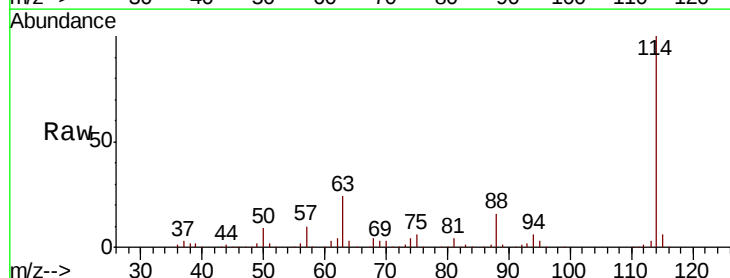
Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0709

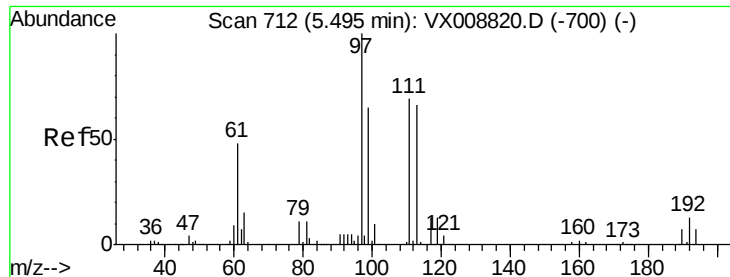
Tot Ion: 65 Resp: 121562
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008898.D
 Acq: 12 Apr 2019 19:47

Tgt Ion: 114 Resp: 296918
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 47.2
 88 16.2 0.0 34.0

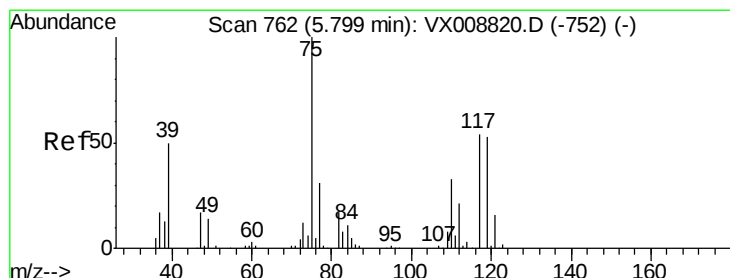
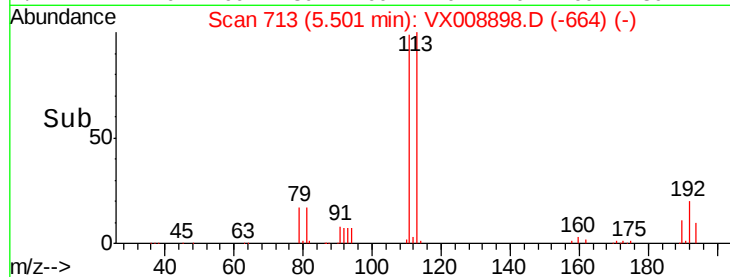
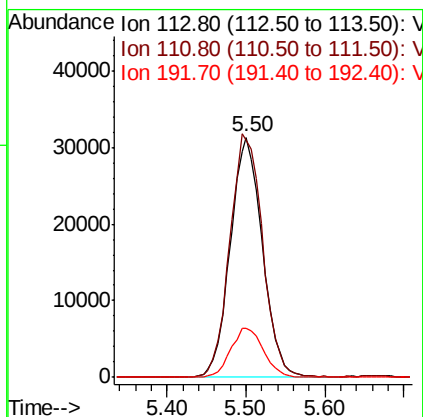
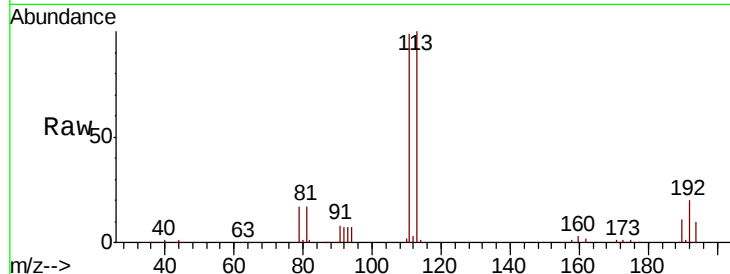




#35
 Dibromofluoromethane
 Concen: 46.635 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008898.D
 Acq: 12 Apr 2019 19:47

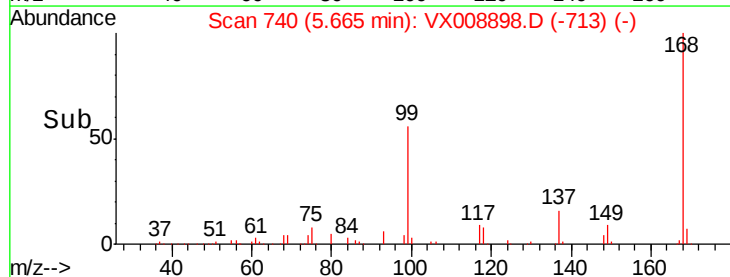
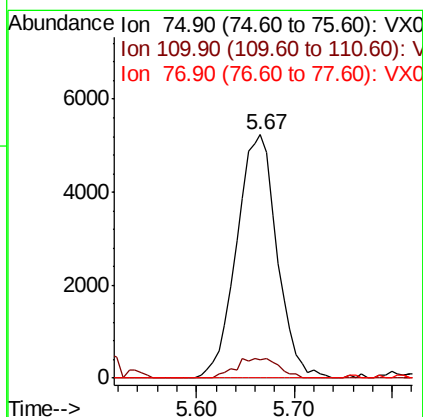
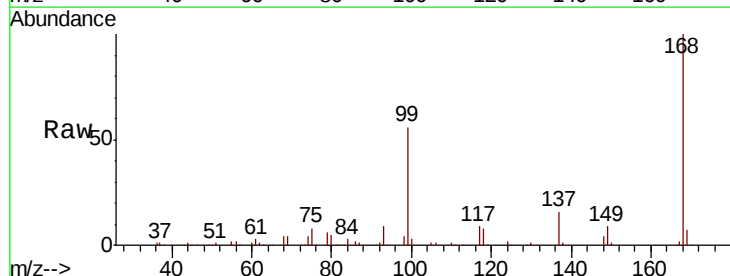
Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0709

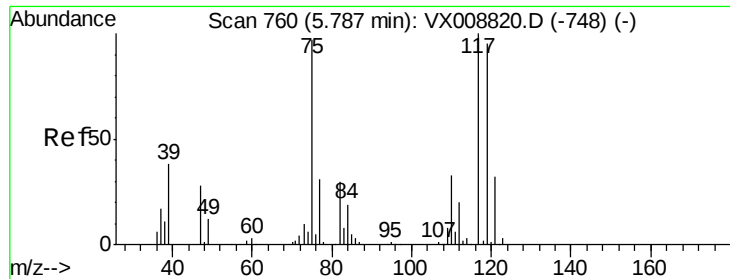
Tot Ion:113 Resp: 88531
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.4 125.2
 192 20.9 16.1 24.1



#36
 1,1-Dichloropropene
 Concen: 4.629 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008898.D
 Acq: 12 Apr 2019 19:47

Tgt Ion: 75 Resp: 15023
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.4 49.2#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.579 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

S8-0709

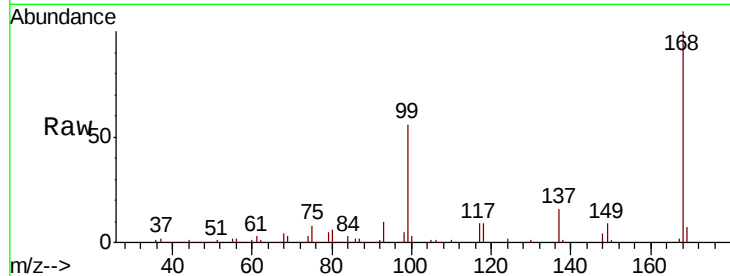
Tot Ion:117 Resp: 17674

Ion Ratio Lower Upper

117 100

119 5.0 75.0 112.6#

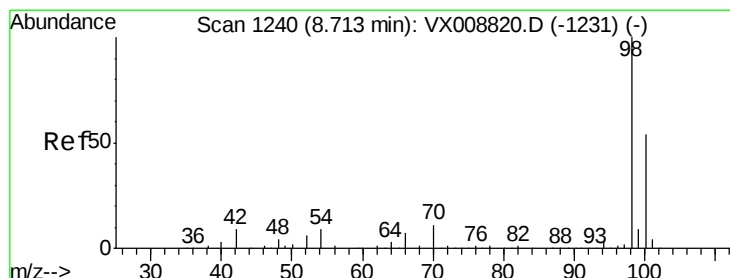
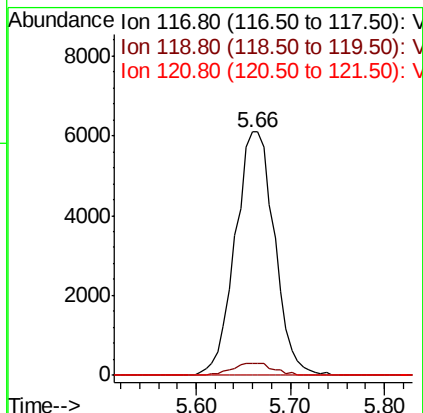
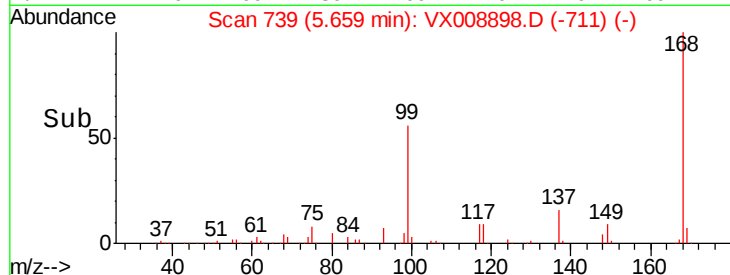
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 49.527 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008898.D

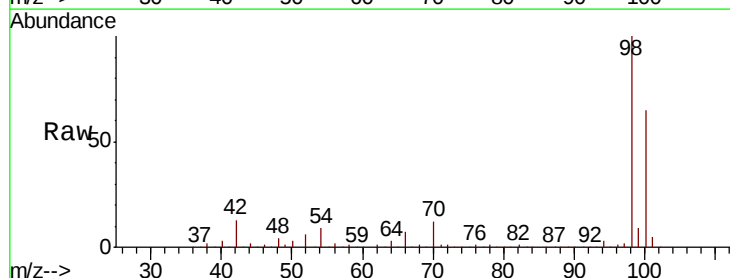
Acq: 12 Apr 2019 19:47

Tgt Ion: 98 Resp: 374367

Ion Ratio Lower Upper

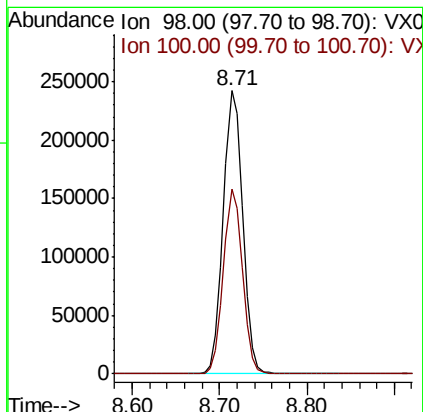
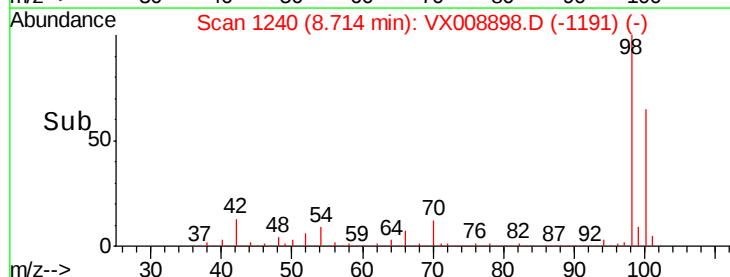
98 100

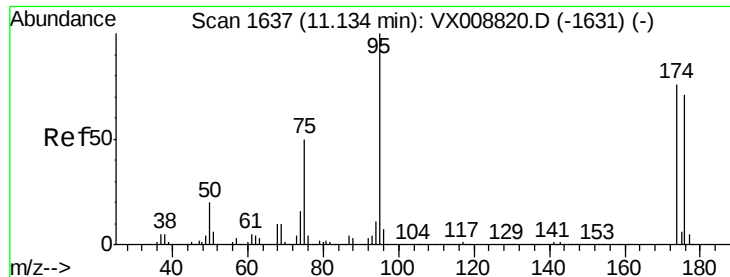
100 63.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.178 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

S8-0709

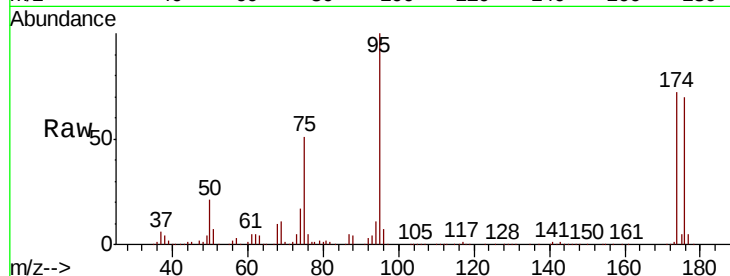
Tot Ion: 95 Resp: 123780

Ion Ratio Lower Upper

95 100

174 78.8 0.0 151.8

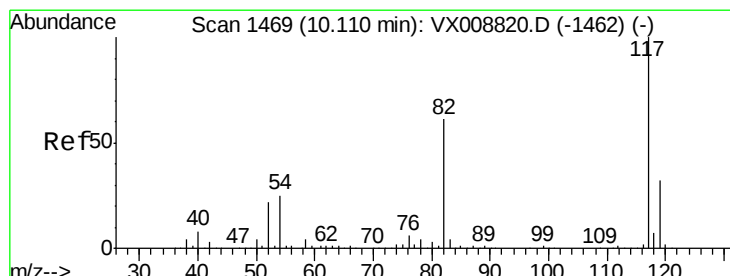
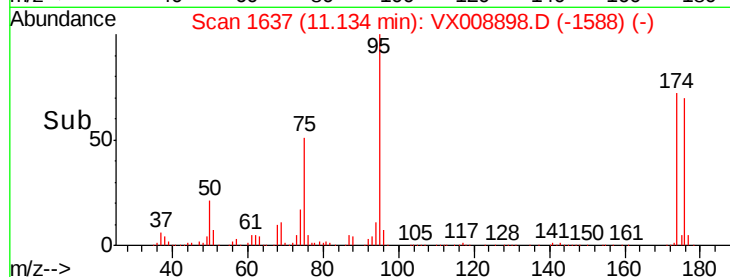
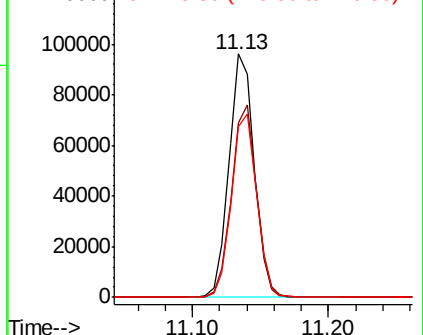
176 76.0 0.0 145.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

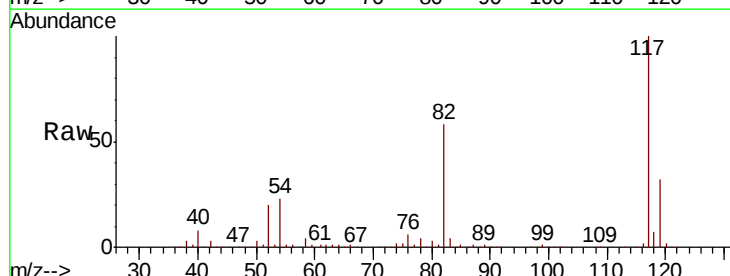
Tgt Ion: 117 Resp: 257649

Ion Ratio Lower Upper

117 100

82 58.4 49.6 74.4

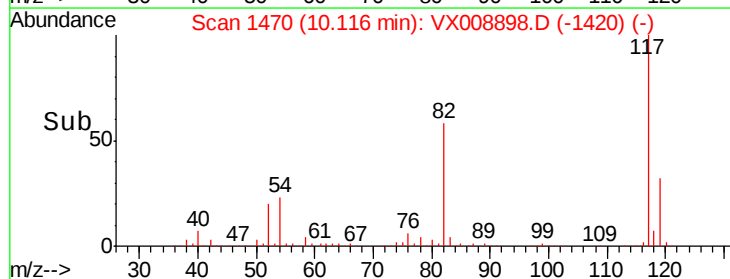
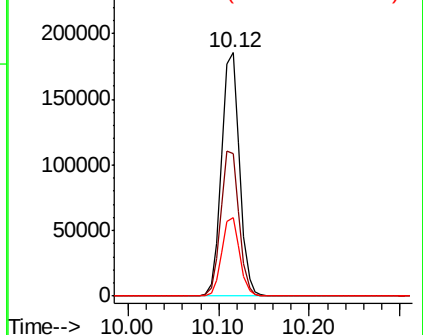
119 32.0 25.0 37.4

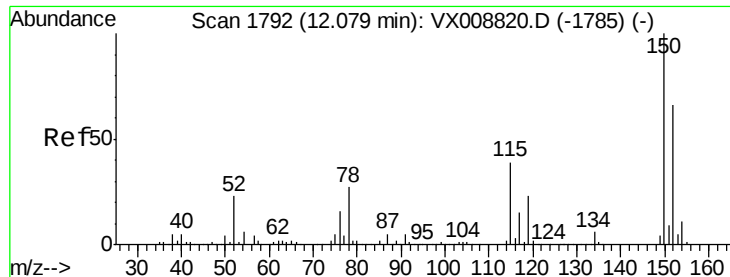


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

S8-0709

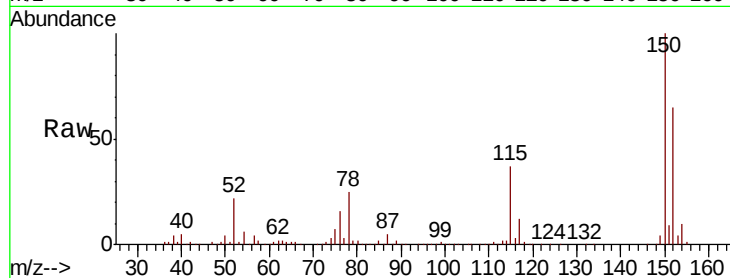
Tot Ion:152 Resp: 109472

Ion Ratio Lower Upper

152 100

115 59.0 43.5 130.5

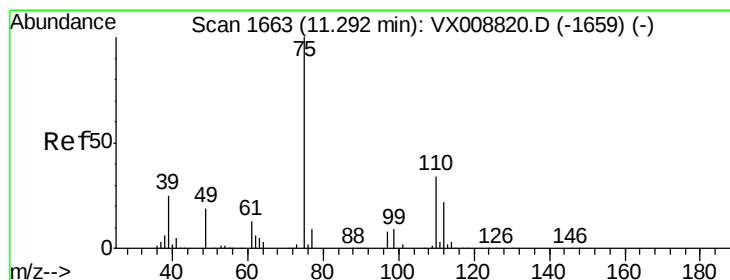
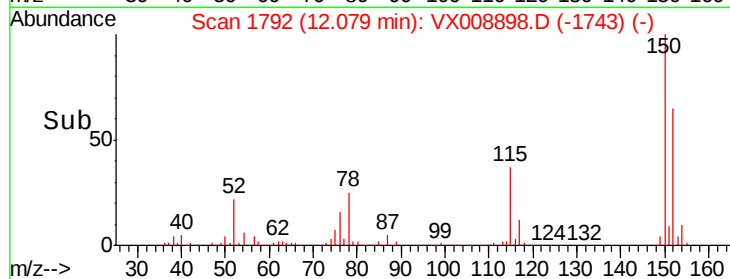
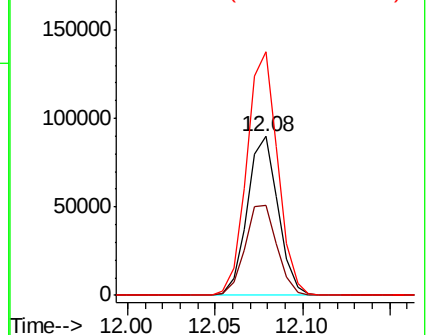
150 154.6 0.0 348.8



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: 20.956 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008898.D

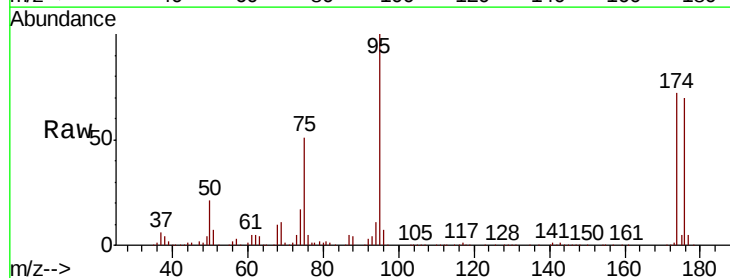
Acq: 12 Apr 2019 19:47

Tgt Ion: 75 Resp: 63020

Ion Ratio Lower Upper

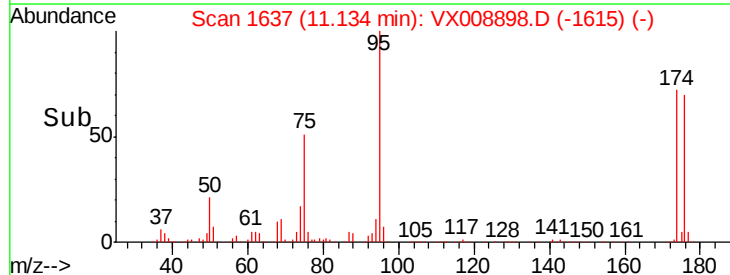
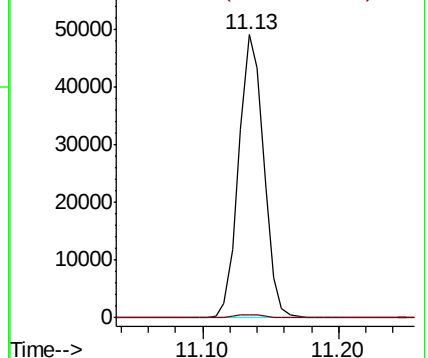
75 100

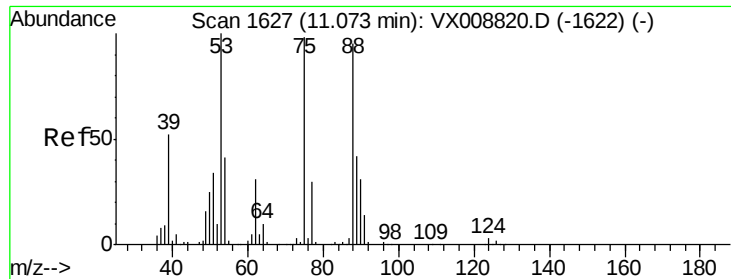
77 1.3 22.3 66.8#



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: 57.765 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008898.D

Acq: 12 Apr 2019 19:47

Instrument :

MSVOA_X

ClientSampleId :

S8-0709

Tot Ion: 75 Resp: 63020

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#

