

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040119\
 Data File : VX008579.D
 Acq On : 01 Apr 2019 19:16
 Operator : JC/SP
 Sample : K2210-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:14:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	224101	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	377805	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	326778	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137011	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	158227	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	
35) Dibromofluoromethane	5.50	113	115930	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
50) Toluene-d8	8.71	98	473023	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	11.13	95	162080	44.40	ug/l	0.00
Spiked Amount			Recovery	=	88.80%	

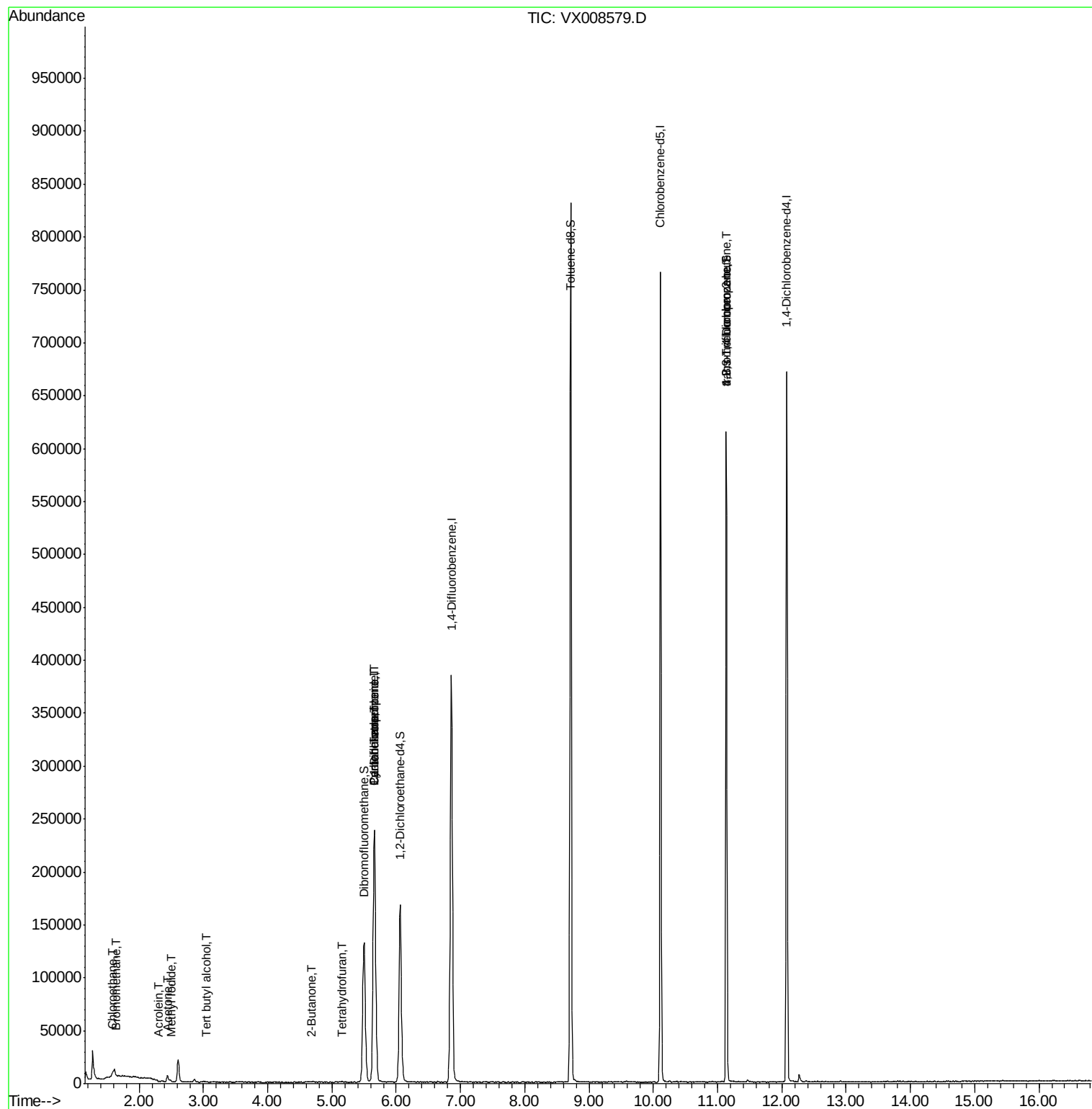
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	709	Below Cal		98
5) Bromomethane	1.65	94	575	2.094	ug/l #	45
6) Chloroethane	1.57	64	8644	3.956	ug/l #	53
10) Methyl Iodide	2.51	142	200	4.204	ug/l #	54
11) Tert butyl alcohol	3.04	59	930	1.236	ug/l #	89
13) Acrolein	2.30	56	264	0.483	ug/l #	80
16) Acetone	2.44	43	6339	3.570	ug/l	99
17) Carbon Disulfide	2.57	76	1091	Below Cal	#	83
20) Methylene Chloride	2.86	84	1147	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.17	96	42	Below Cal	#	9
25) 2-Butanone	4.68	43	837	0.294	ug/l	91
29) Tetrahydrofuran	5.15	42	881	0.470	ug/l #	90
31) Cyclohexane	5.66	56	5385	0.989	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18709	4.644	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22132	6.584	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	82755	20.317	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	82755	65.072	ug/l #	9

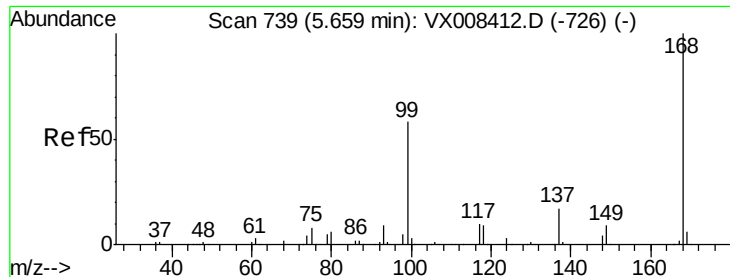
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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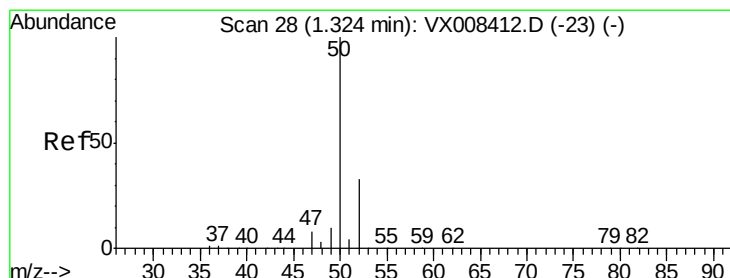
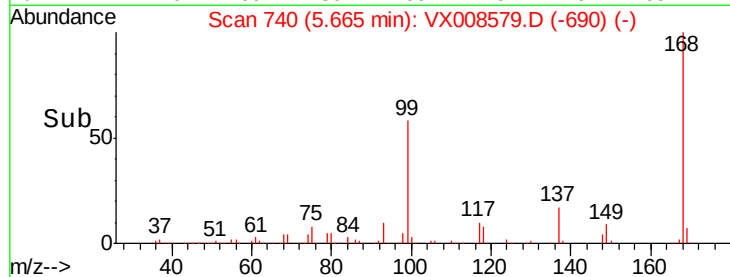
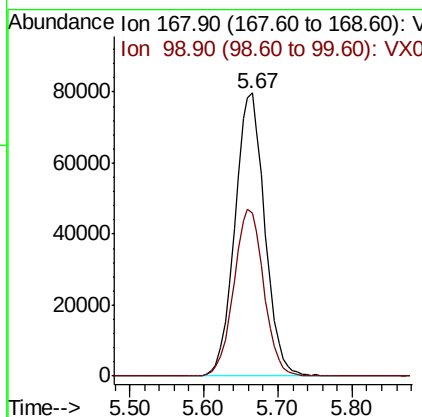
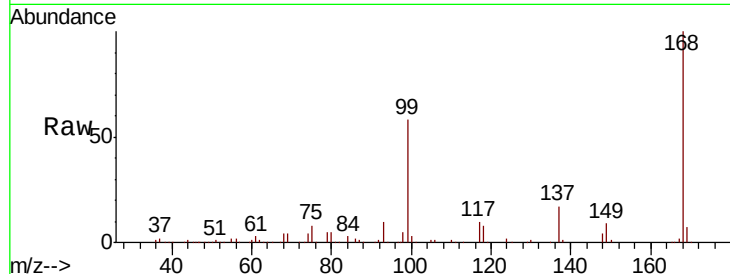




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

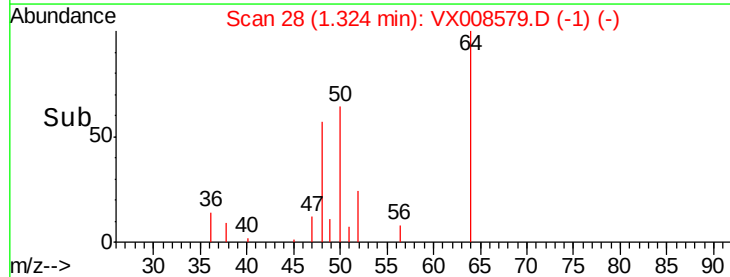
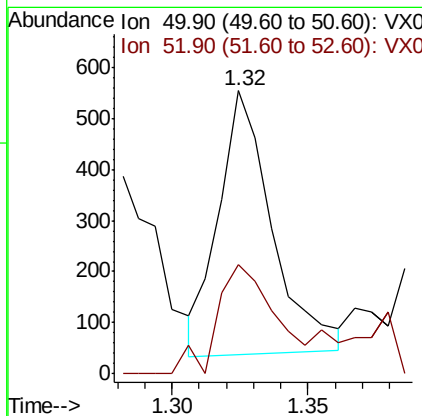
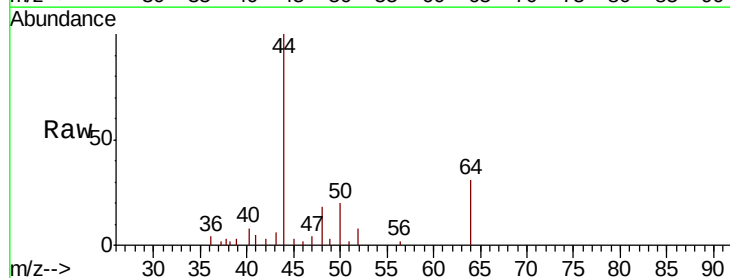
Instrument :
MSVOA_X
ClientSampled :

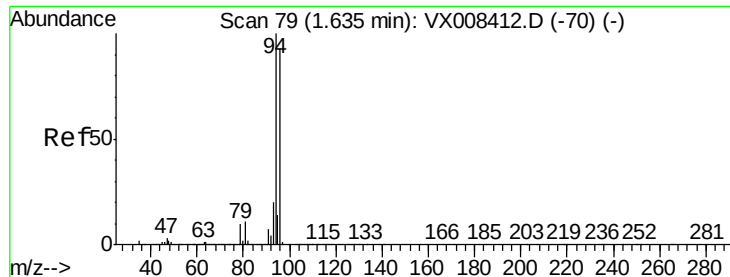
Tot Ion:168 Resp: 224101
Ion Ratio Lower Upper
168 100
99 57.6 46.0 69.0



#3
Chloromethane
Concen: Below Cal
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

Tgt Ion: 50 Resp: 709
Ion Ratio Lower Upper
50 100
52 33.9 26.2 39.2





#5

Bromomethane

Concen: 2.094 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

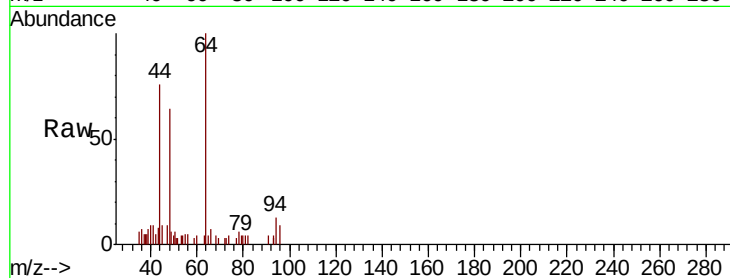
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 575

Ion Ratio Lower Upper

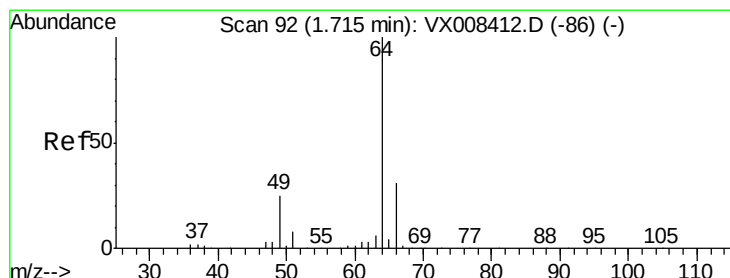
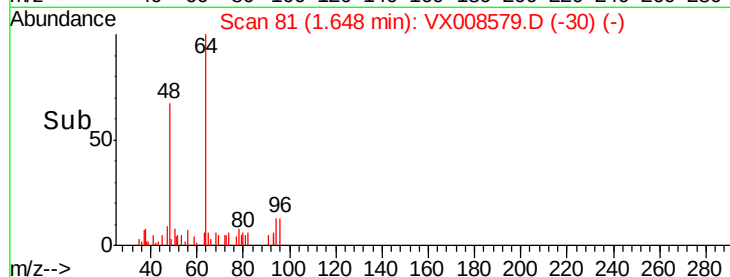
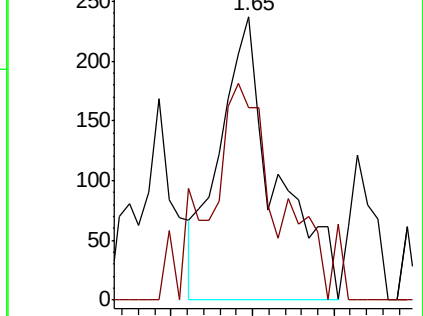
94 100

96 40.9 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.956 ug/l

RT: 1.57 min Scan# 69

Delta R.T. -0.14 min

Lab File: VX008579.D

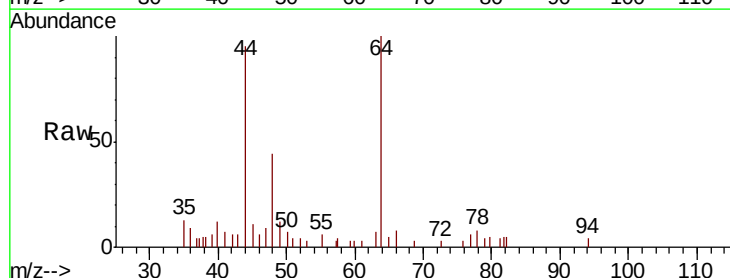
Acq: 01 Apr 2019 19:16

Tgt Ion: 64 Resp: 8644

Ion Ratio Lower Upper

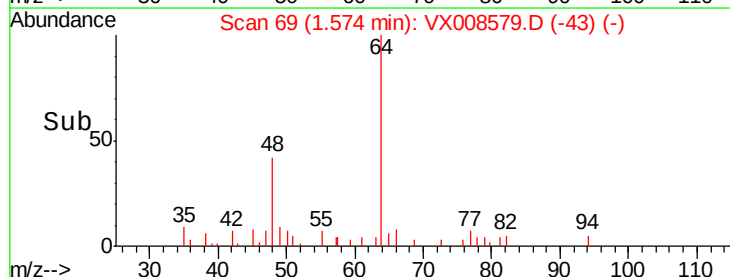
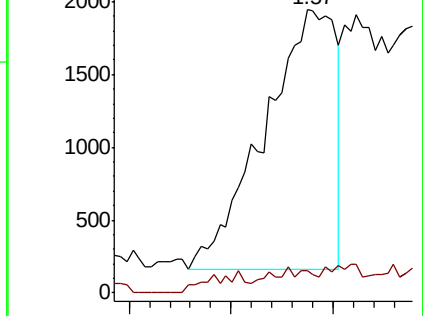
64 100

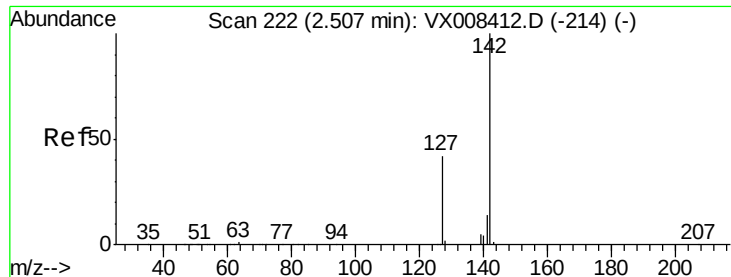
66 5.2 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.204 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

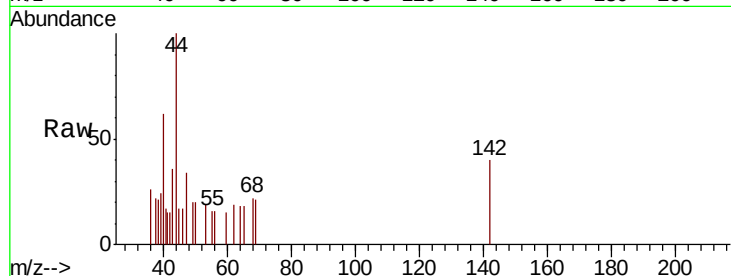
Tot Ion:142 Resp: 200

Ion Ratio Lower Upper

142 100

127 10.5 33.6 50.4#

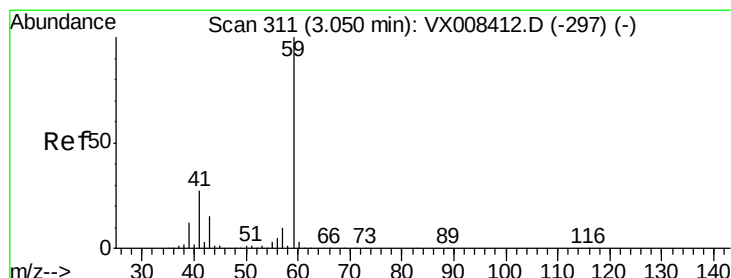
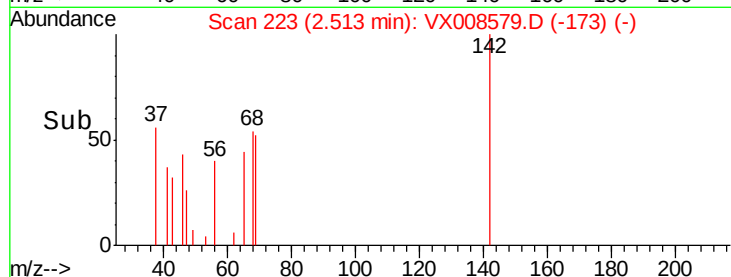
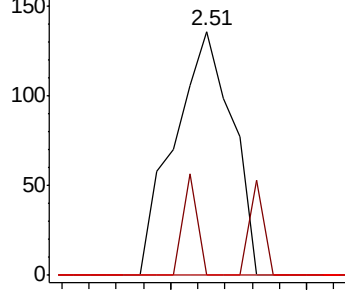
141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.236 ug/l

RT: 3.04 min Scan# 309

Delta R.T. -0.01 min

Lab File: VX008579.D

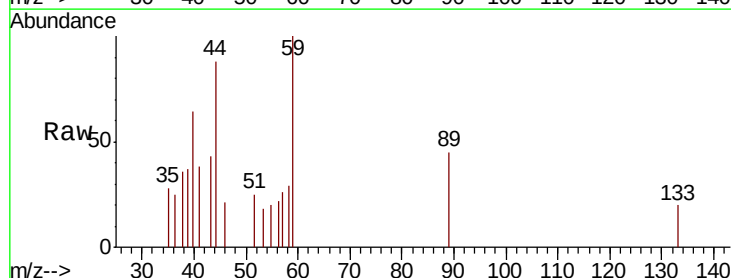
Acq: 01 Apr 2019 19:16

Tgt Ion: 59 Resp: 930

Ion Ratio Lower Upper

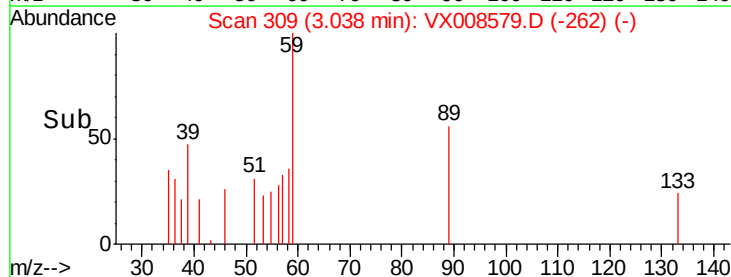
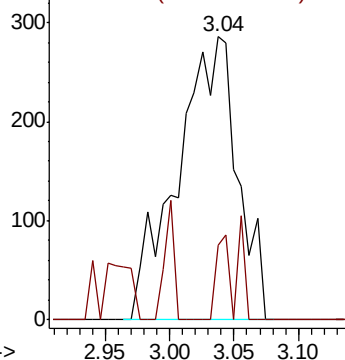
59 100

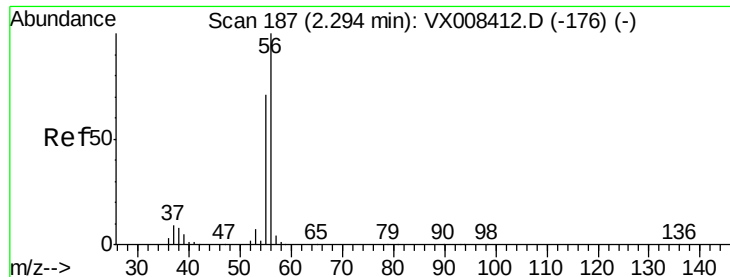
57 6.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.483 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

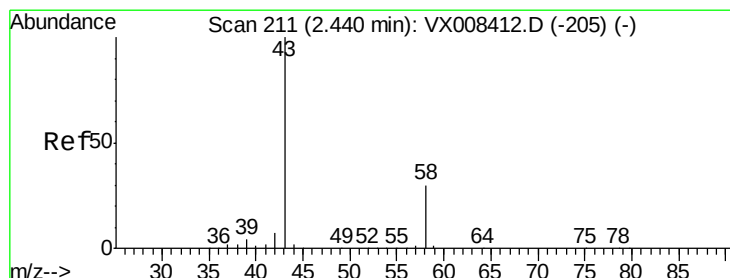
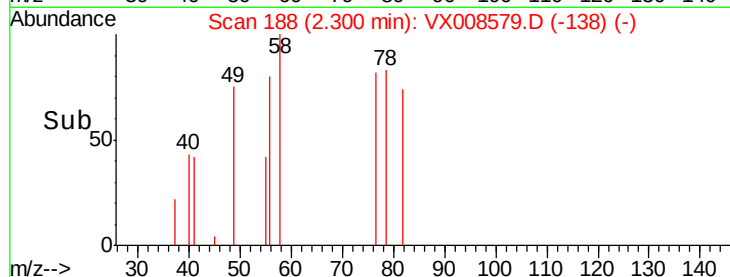
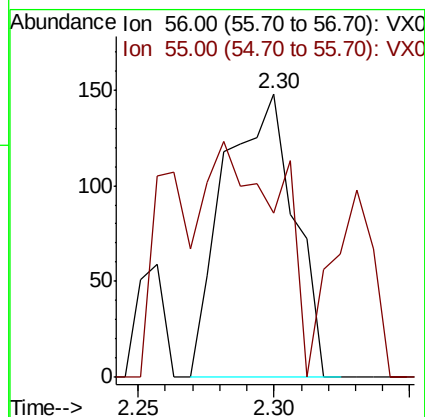
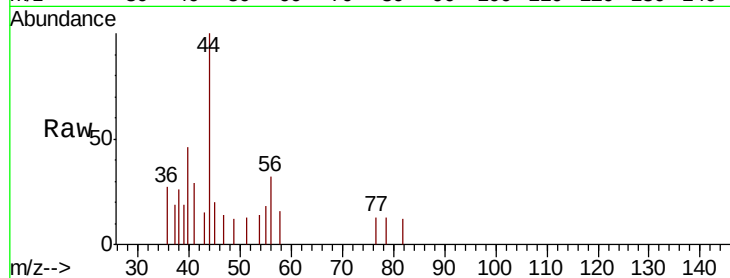
ClientSampleId :

Tot Ion: 56 Resp: 264

Ion Ratio Lower Upper

56 100

55 86.7 56.5 84.7#



#16

Acetone

Concen: 3.570 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008579.D

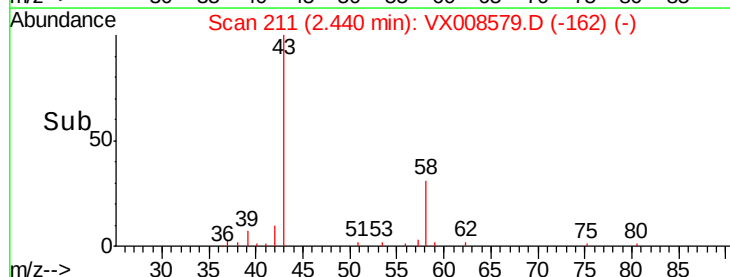
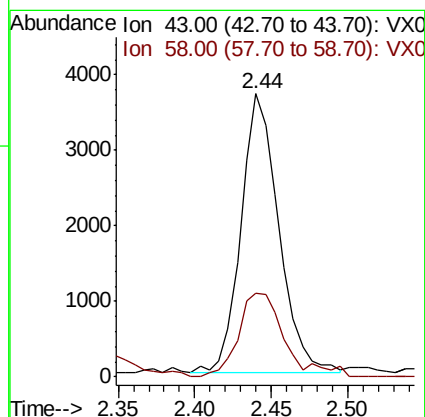
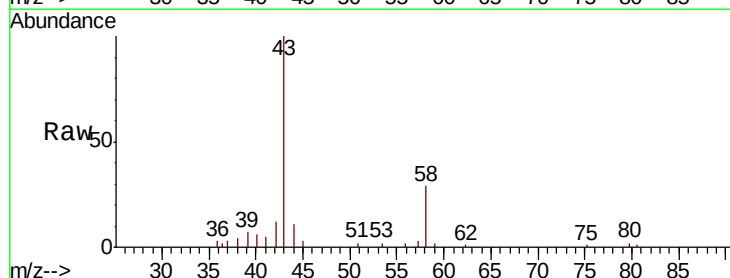
Acq: 01 Apr 2019 19:16

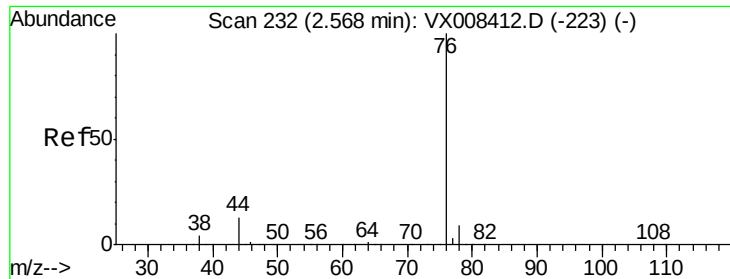
Tgt Ion: 43 Resp: 6339

Ion Ratio Lower Upper

43 100

58 29.9 24.2 36.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

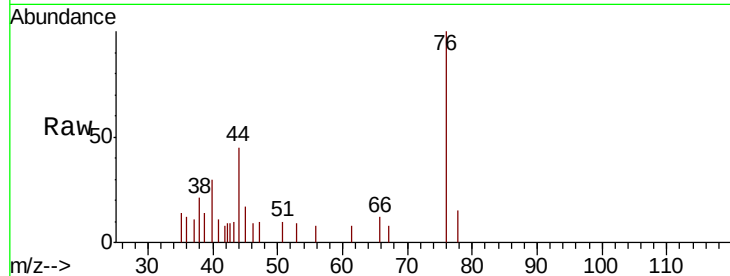
ClientSampleId :

Tot Ion: 76 Resp: 1091

Ion Ratio Lower Upper

76 100

78 15.5 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

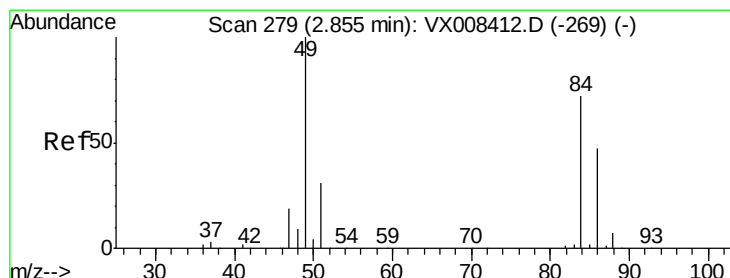
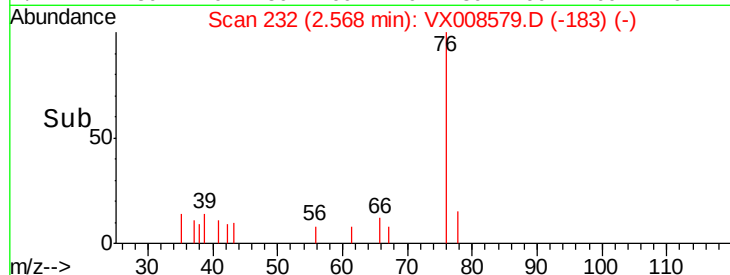
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Tgt Ion: 84 Resp: 1147

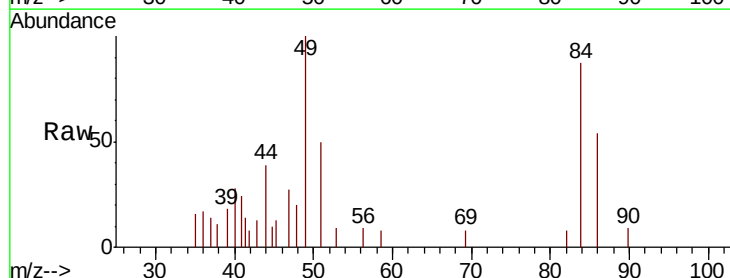
Ion Ratio Lower Upper

84 100

49 103.9 110.6 165.8#

51 57.2 33.9 50.9#

86 52.6 52.2 78.2



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

1000

800

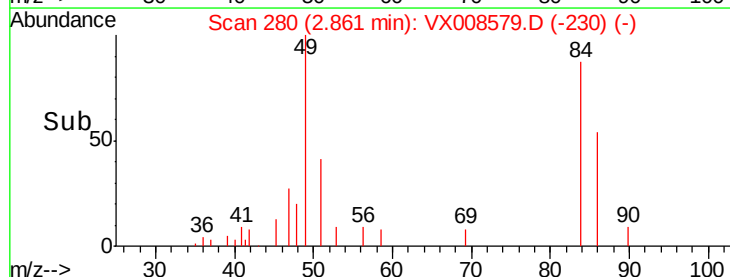
600

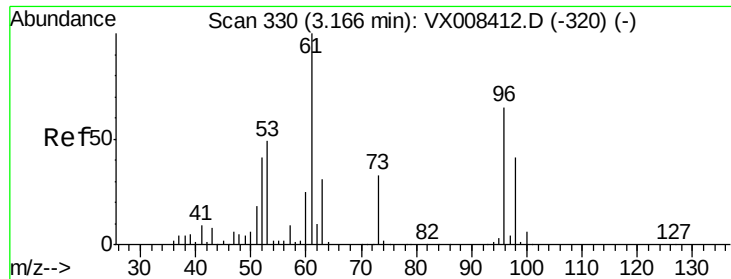
400

200

0

Time-->





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

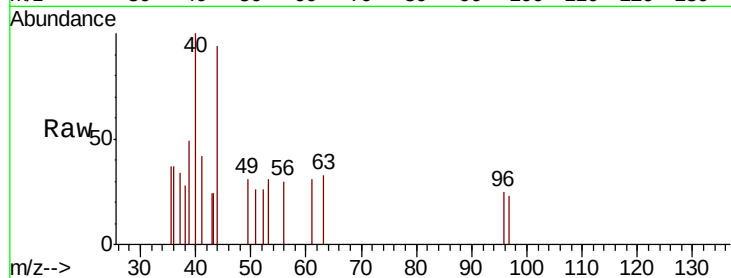
Tot Ion: 96 Resp: 42

Ion Ratio Lower Upper

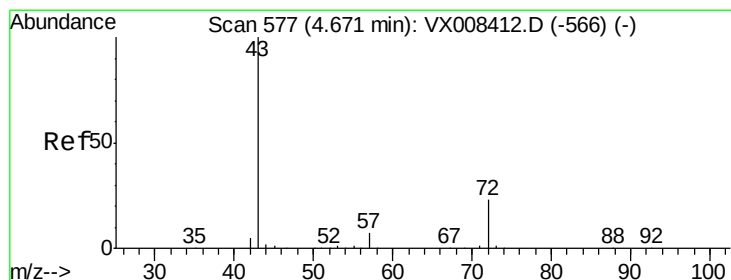
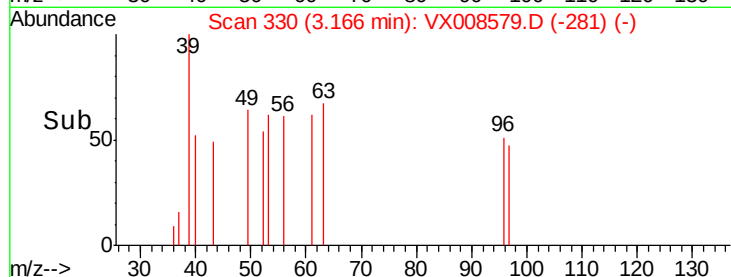
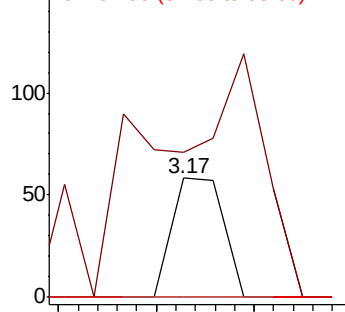
96 100

61 31.0 122.6 184.0#

98 0.0 50.9 76.3#



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



#25

2-Butanone

Concen: 0.294 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008579.D

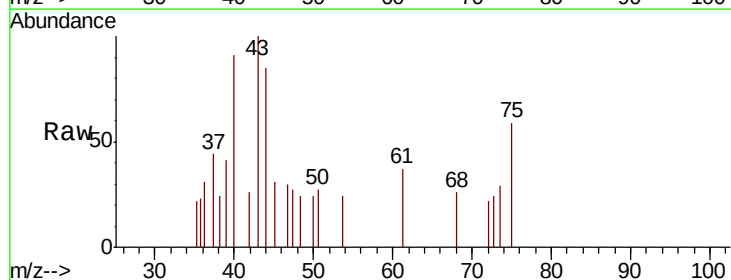
Acq: 01 Apr 2019 19:16

Tgt Ion: 43 Resp: 837

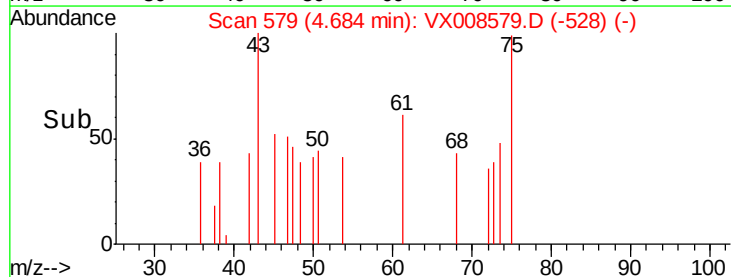
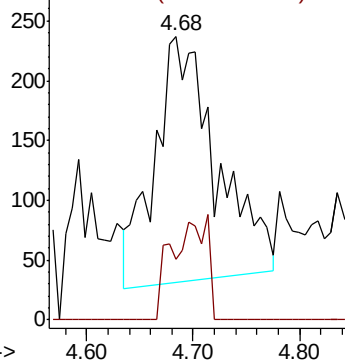
Ion Ratio Lower Upper

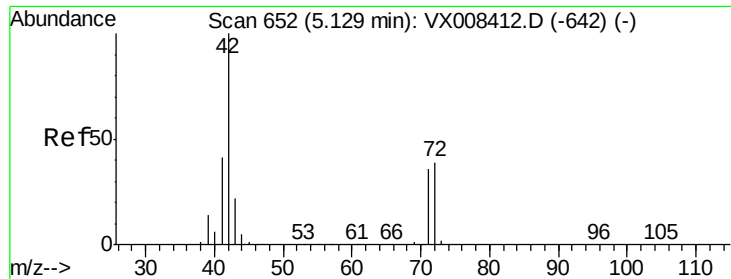
43 100

72 27.9 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

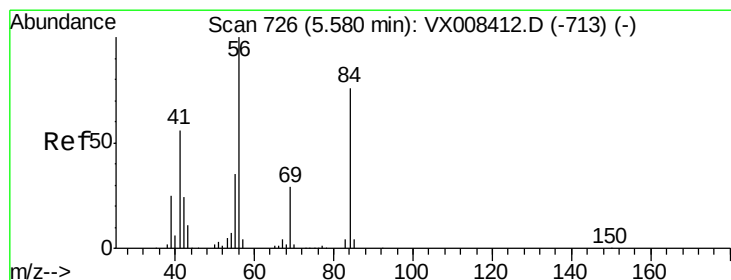
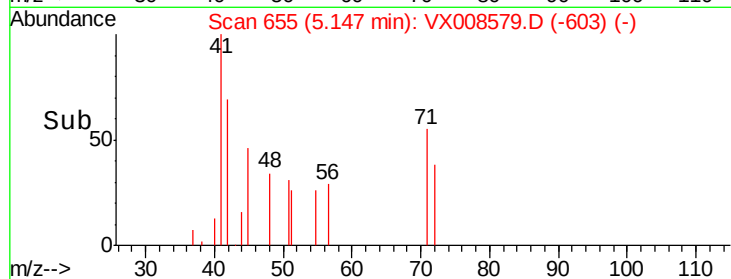
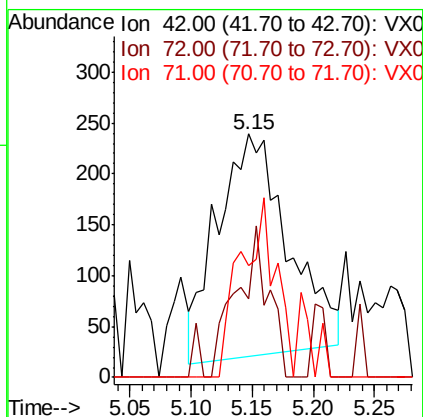
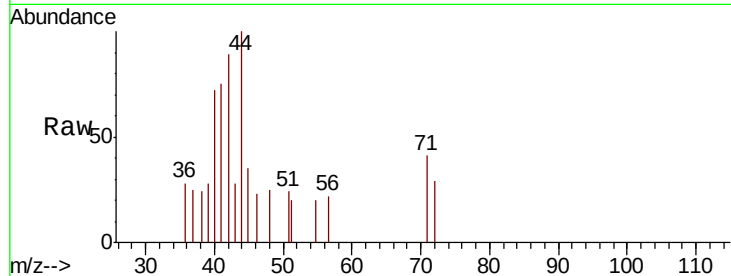




#29
Tetrahydrofuran
Concen: 0.470 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

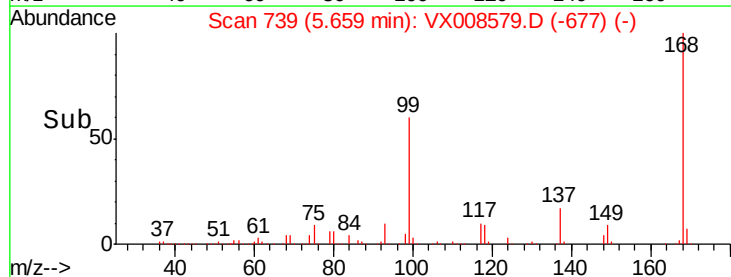
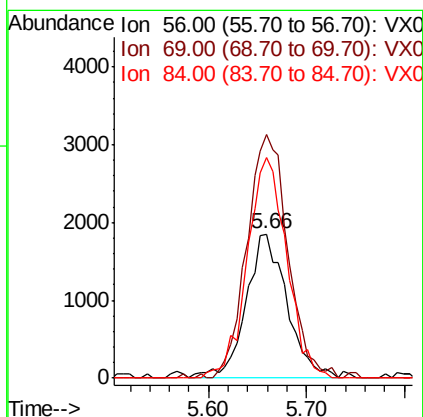
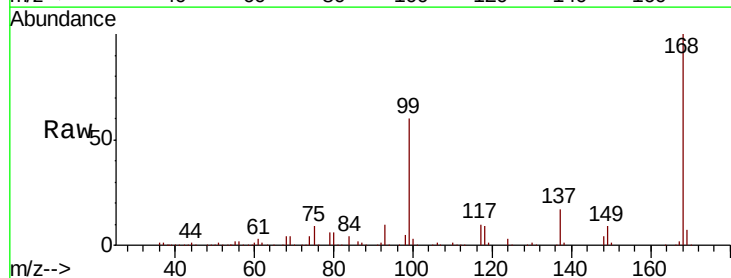
Instrument :
MSVOA_X
ClientSampleId :

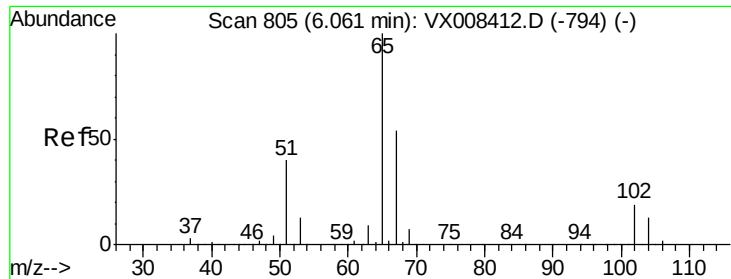
Tot Ion: 42 Resp: 881
Ion Ratio Lower Upper
42 100
72 31.0 31.4 47.2#
71 40.1 29.4 44.2



#31
Cyclohexane
Concen: 0.989 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

Tgt Ion: 56 Resp: 5385
Ion Ratio Lower Upper
56 100
69 168.6 23.2 34.8#
84 152.7 60.7 91.1#

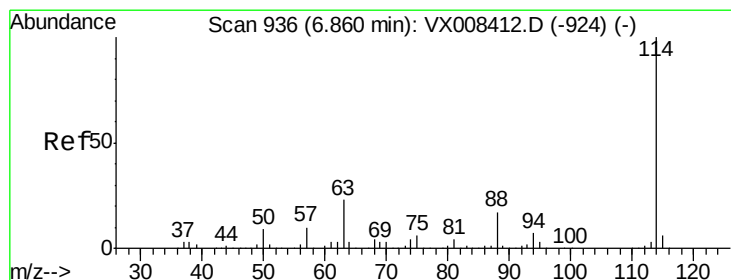
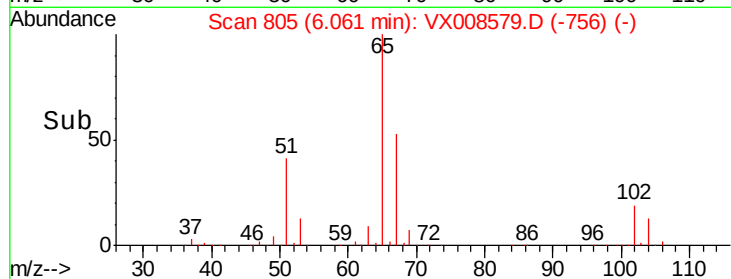
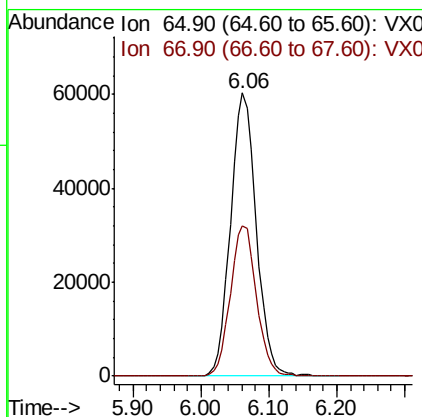
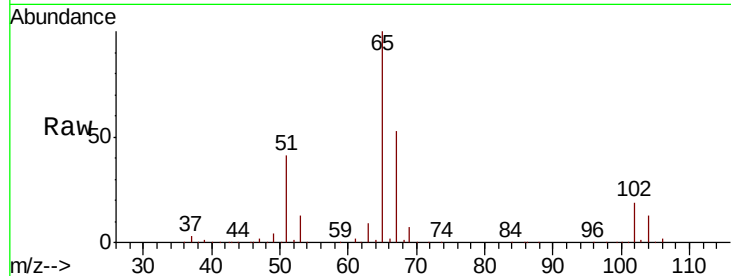




#33
 1,2-Dichloroethane-d4
 Concen: 46.573 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008579.D
 Acq: 01 Apr 2019 19:16

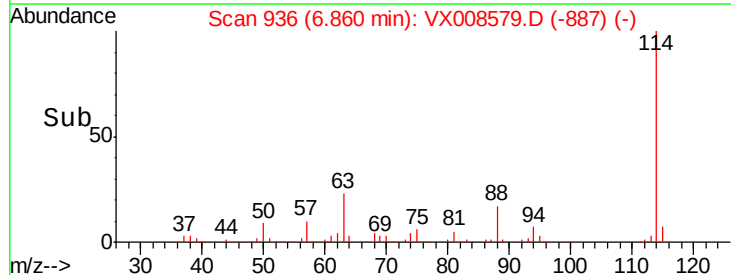
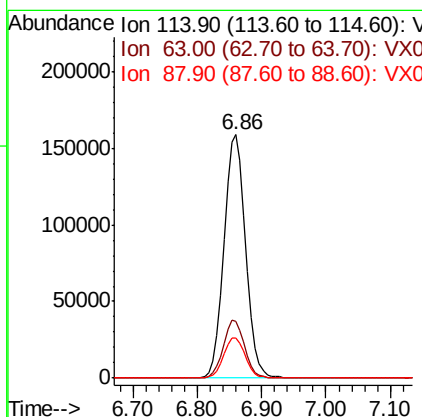
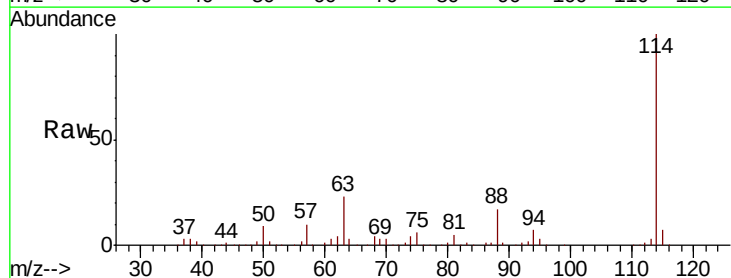
Instrument :
 MSVOA_X
 ClientSampleId :

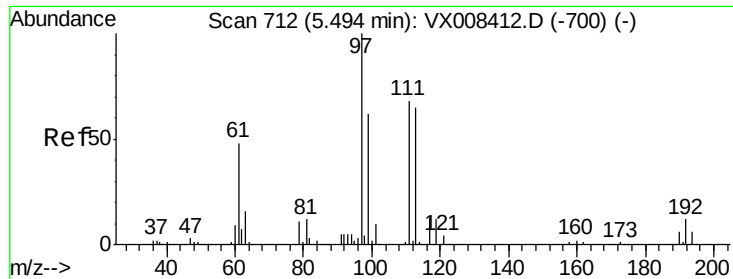
Tot Ion: 65 Resp: 158227
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008579.D
 Acq: 01 Apr 2019 19:16

Tgt Ion: 114 Resp: 377805
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.4
 88 16.7 0.0 33.2

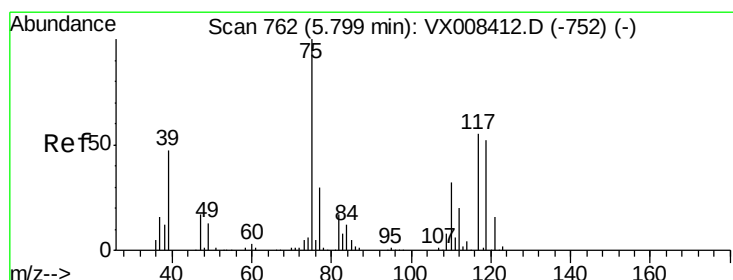
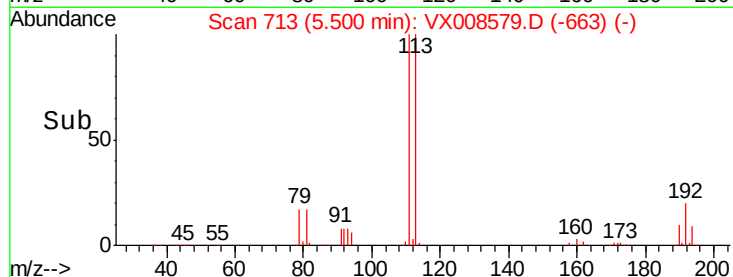
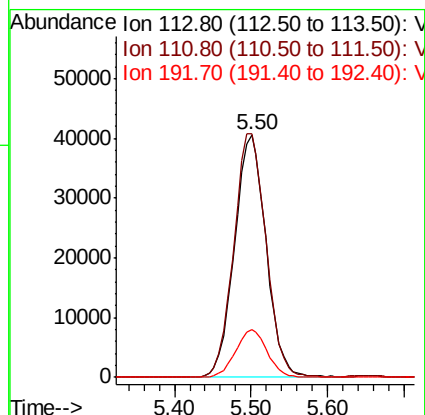
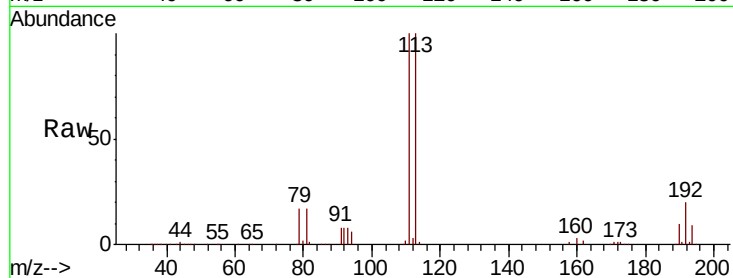




#35
 Dibromofluoromethane
 Concen: 47.060 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008579.D
 Acq: 01 Apr 2019 19:16

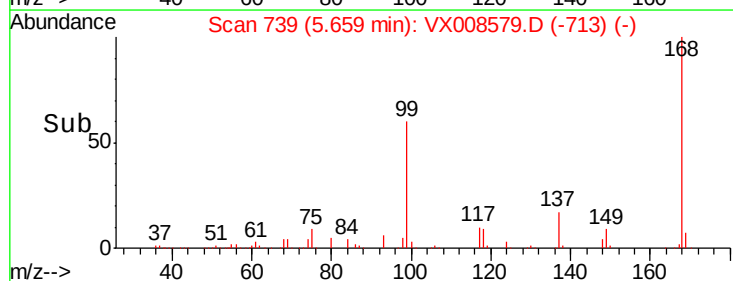
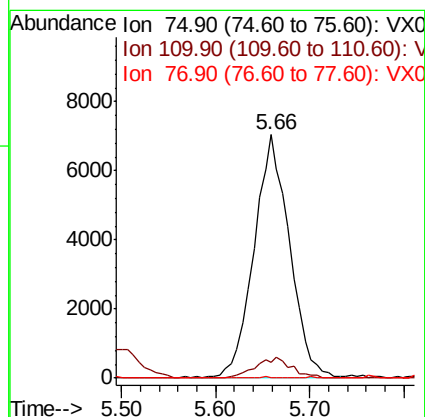
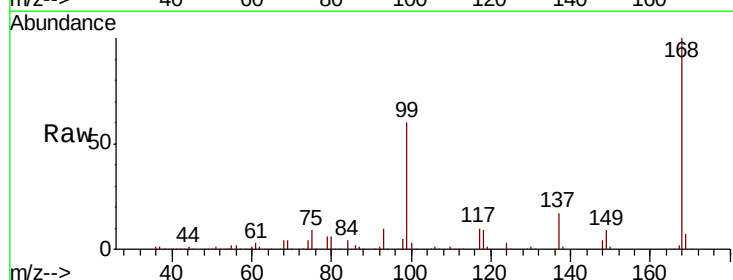
Instrument :
 MSVOA_X
 ClientSampleId :

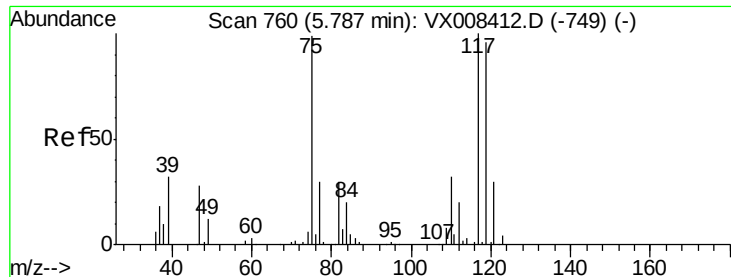
Tot Ion:113 Resp: 115930
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.0 124.4
 192 19.7 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.644 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008579.D
 Acq: 01 Apr 2019 19:16

Tgt Ion: 75 Resp: 18709
 Ion Ratio Lower Upper
 75 100
 110 8.6 16.6 49.7#
 77 0.1 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.584 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampled :

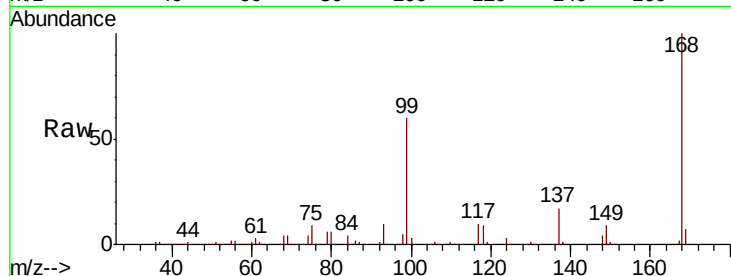
Tot Ion:117 Resp: 22132

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

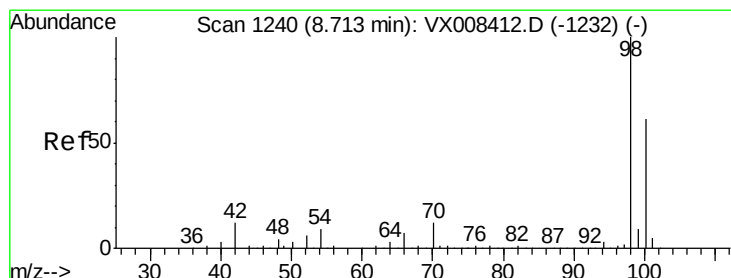
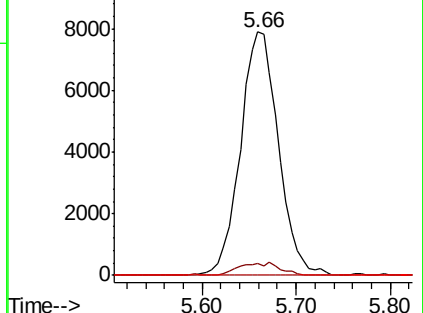
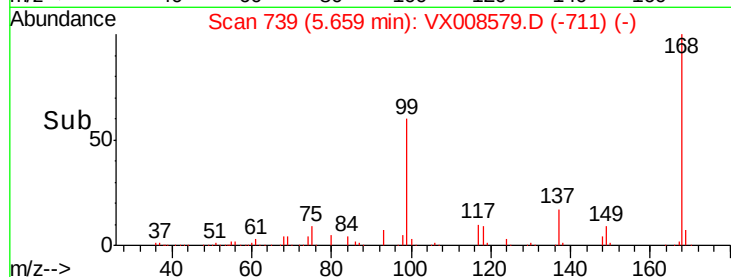
121 0.0 24.3 36.5#



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: 48.021 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008579.D

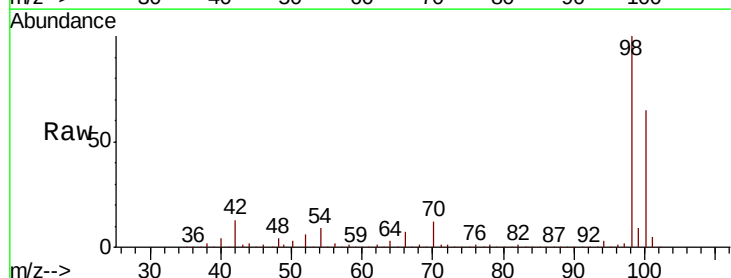
Acq: 01 Apr 2019 19:16

Tgt Ion: 98 Resp: 473023

Ion Ratio Lower Upper

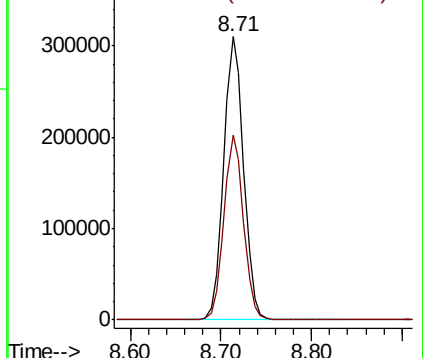
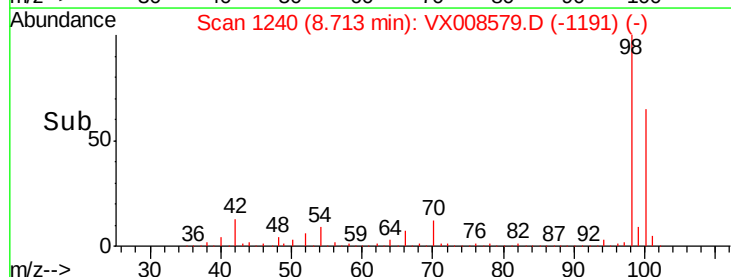
98 100

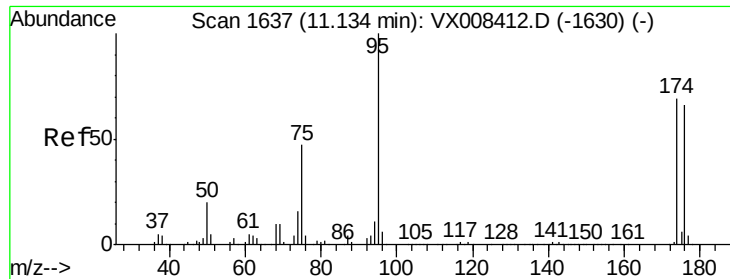
100 64.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.403 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

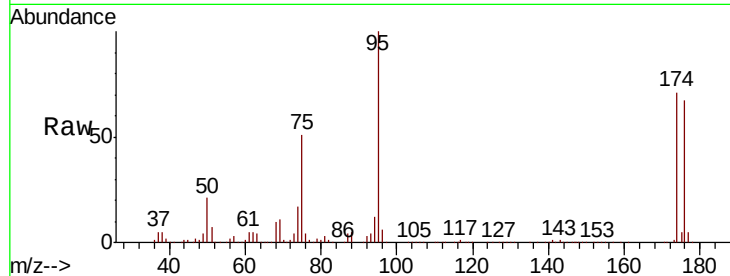
Tot Ion: 95 Resp: 162080

Ion Ratio Lower Upper

95 100

174 74.8 0.0 147.2

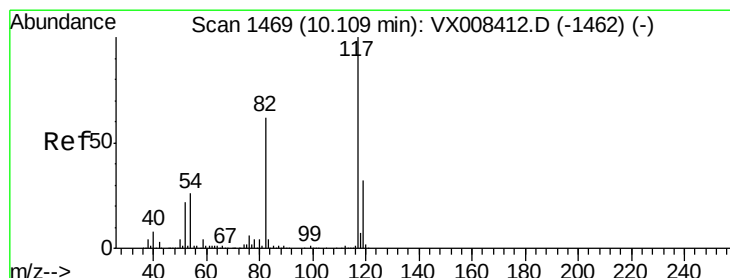
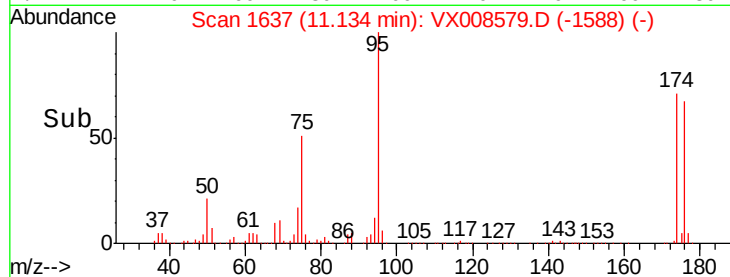
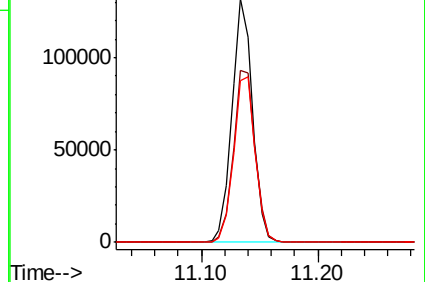
176 71.8 0.0 142.4



Abundance Ion 94.90 (94.60 to 95.60): VX008412.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008412.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008412.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

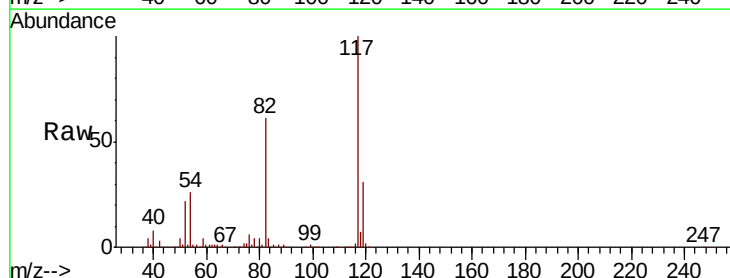
Tgt Ion: 117 Resp: 326778

Ion Ratio Lower Upper

117 100

82 61.4 49.4 74.2

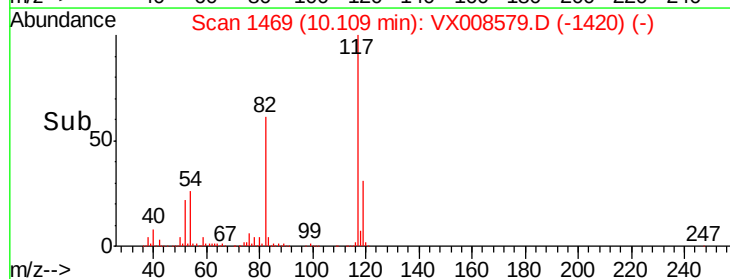
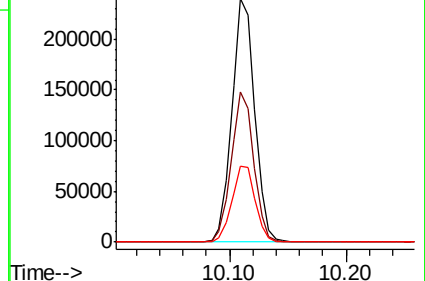
119 31.2 25.4 38.0

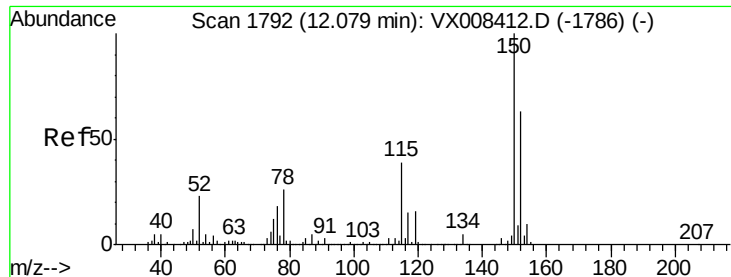


Abundance Ion 116.90 (116.60 to 117.60): VX008412.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008412.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008412.D (-1462) (-)



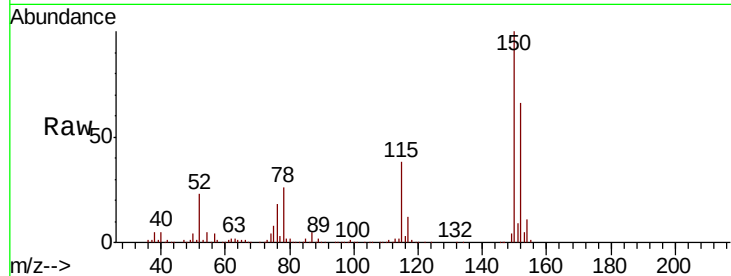


#72

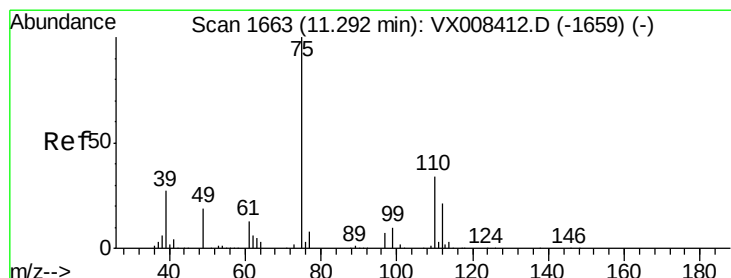
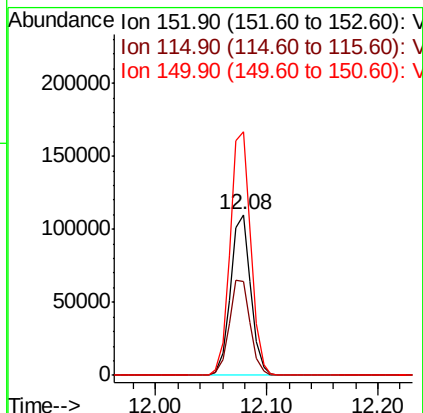
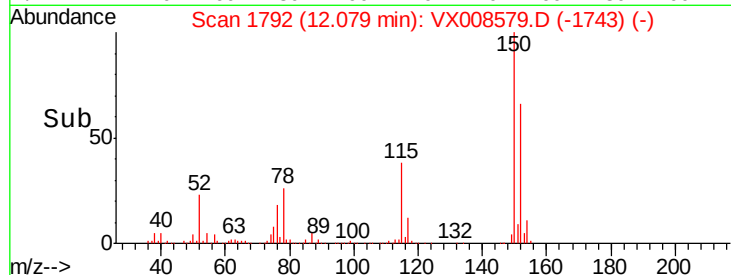
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	61.0	43.5	130.5
150	155.4	0.0	348.8



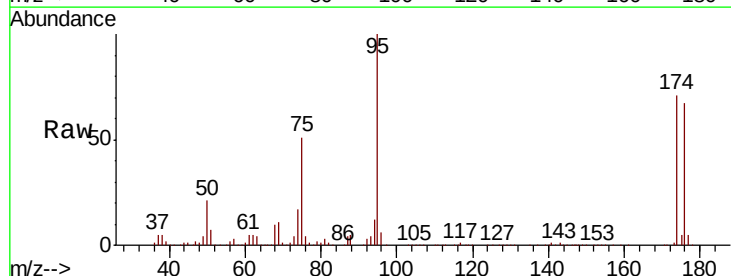
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



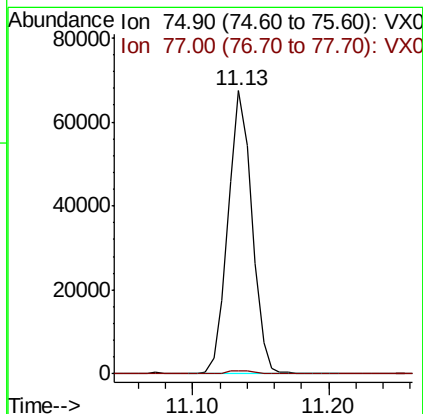
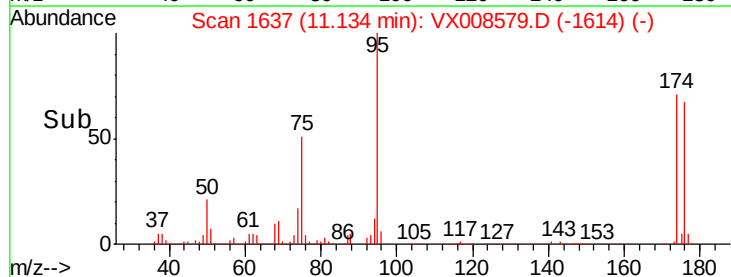
#76

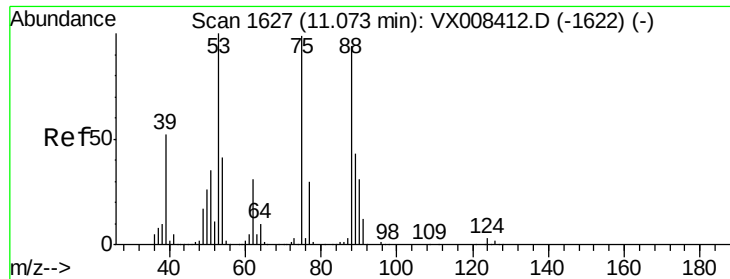
1,2,3-Trichloropropane
Concen: 20.317 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX008579.D
Acq: 01 Apr 2019 19:16

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.9	65.7#



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: 65.072 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008579.D

Acq: 01 Apr 2019 19:16

Instrument :

MSVOA_X

ClientSampleId :

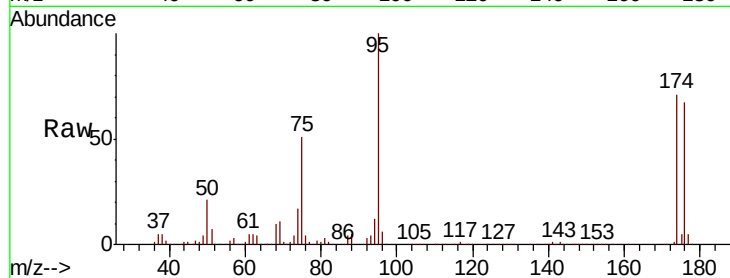
Tot Ion: 75 Resp: 82755

Ion Ratio Lower Upper

75 100

53 0.0 82.1 123.1#

89 0.0 34.6 52.0#



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

