

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040119\
 Data File : VX008581.D
 Acq On : 01 Apr 2019 20:03
 Operator : JC/SP
 Sample : K2210-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 02 01:15:23 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	5.66	168	211308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	352168	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	292766	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113968	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	148081	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
35) Dibromofluoromethane	5.50	113	108742	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
50) Toluene-d8	8.71	98	438580	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
62) 4-Bromofluorobenzene	11.13	95	140116	41.18	ug/l	0.00
Spiked Amount			Recovery	=	82.36%	

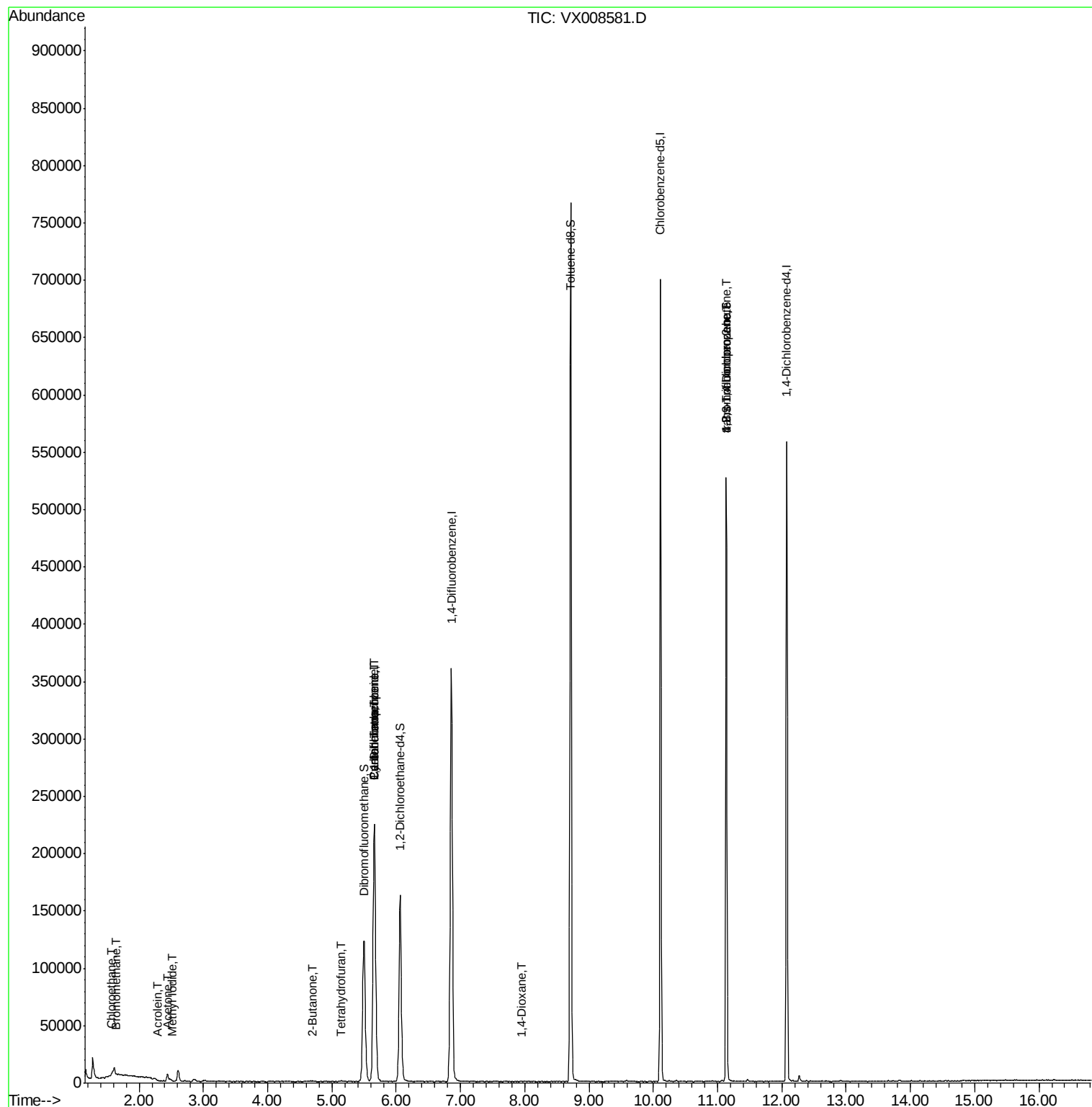
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	411	Below Cal		94
5) Bromomethane	1.64	94	153	1.889	ug/l #	18
6) Chloroethane	1.57	64	4791	2.325	ug/l #	58
10) Methyl Iodide	2.52	142	21	4.138	ug/l #	42
13) Acrolein	2.29	56	143	0.277	ug/l #	77
16) Acetone	2.44	43	7400	4.420	ug/l	99
17) Carbon Disulfide	2.57	76	878	Below Cal	#	65
20) Methylene Chloride	2.86	84	1001	Below Cal	#	84
25) 2-Butanone	4.70	43	727	0.271	ug/l #	75
29) Tetrahydrofuran	5.14	42	499	0.282	ug/l #	69
31) Cyclohexane	5.67	56	5147	1.002	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	17985	4.790	ug/l #	50
38) Carbon Tetrachloride	5.66	117	21190	6.762	ug/l #	16
49) 1,4-Dioxane	7.94	88	19	0.245	ug/l #	19
76) 1,2,3-Trichloropropane	11.13	75	72384	21.364	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	72384	68.425	ug/l #	9

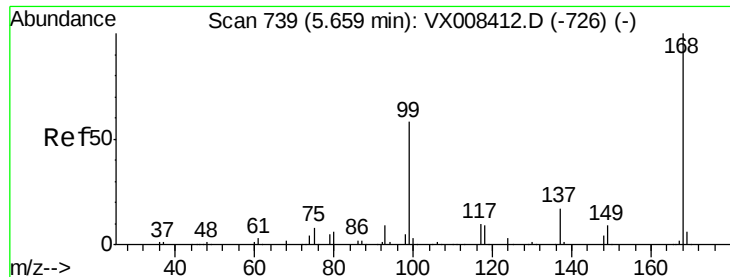
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 07:57:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

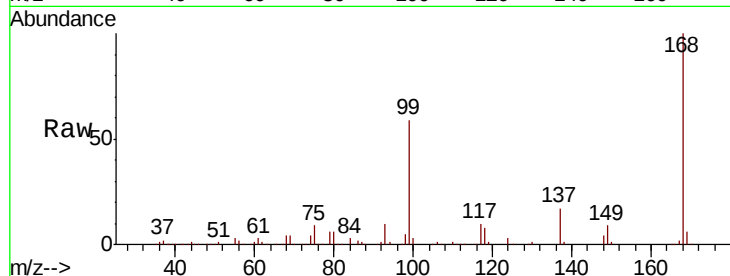
ClientSampleId :

Tot Ion:168 Resp: 211308

Ion Ratio Lower Upper

168 100

99 59.2 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

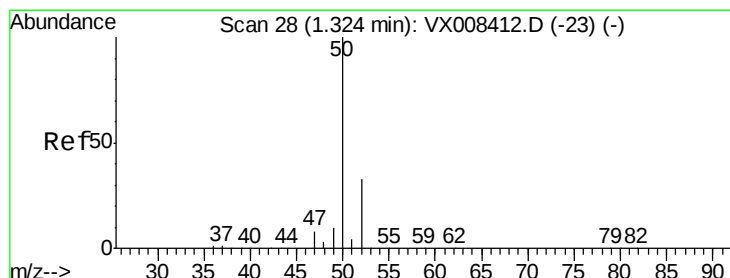
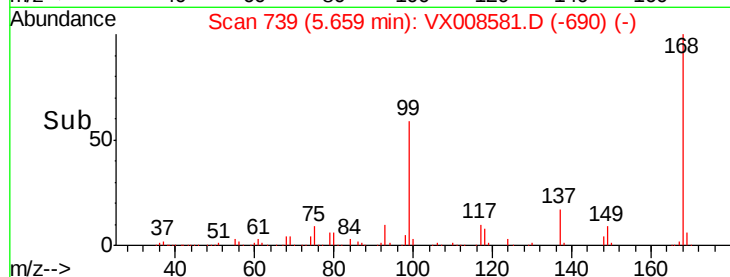
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008581.D

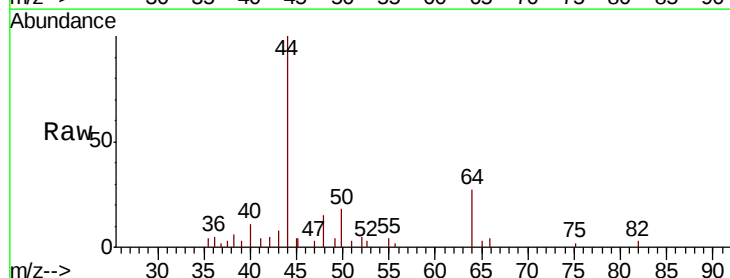
Acq: 01 Apr 2019 20:03

Tgt Ion: 50 Resp: 411

Ion Ratio Lower Upper

50 100

52 36.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

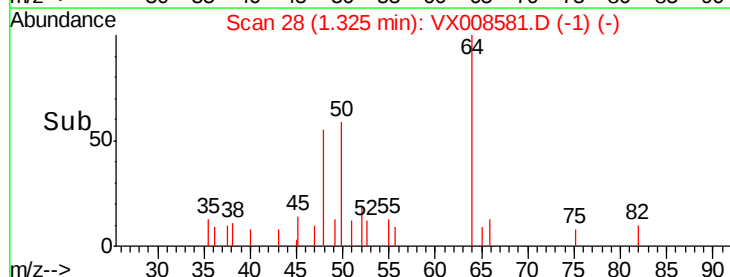
200

100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 1.889 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

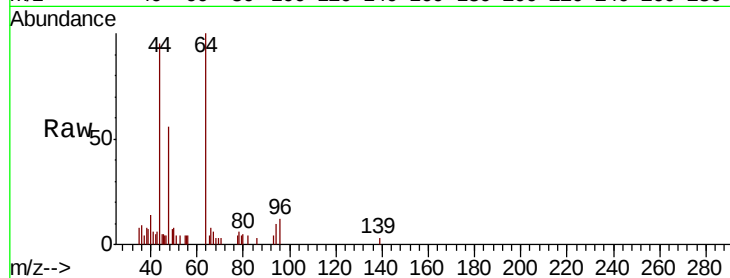
ClientSampled :

Tot Ion: 94 Resp: 153

Ion Ratio Lower Upper

94 100

96 172.4 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

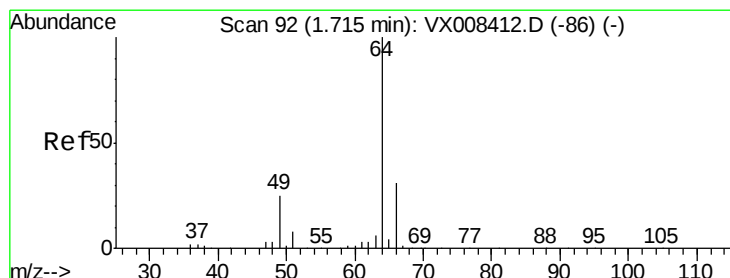
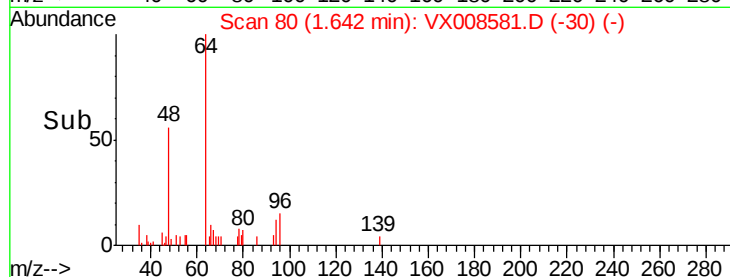
150

100

50

0

Time-->



#6

Chloroethane

Concen: 2.325 ug/l

RT: 1.57 min Scan# 68

Delta R.T. -0.15 min

Lab File: VX008581.D

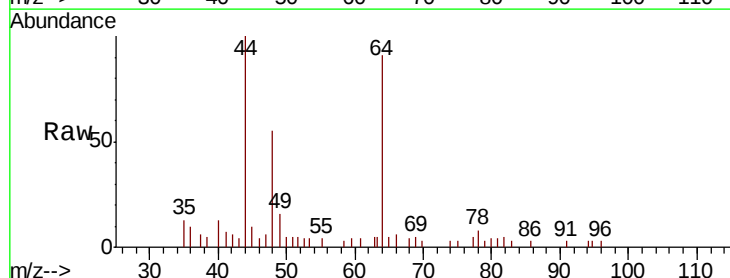
Acq: 01 Apr 2019 20:03

Tgt Ion: 64 Resp: 4791

Ion Ratio Lower Upper

64 100

66 7.9 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2000

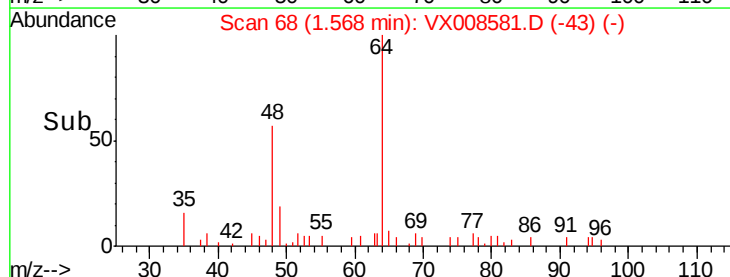
1500

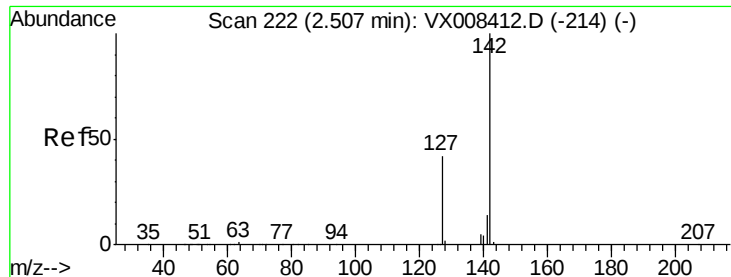
1000

500

0

Time-->

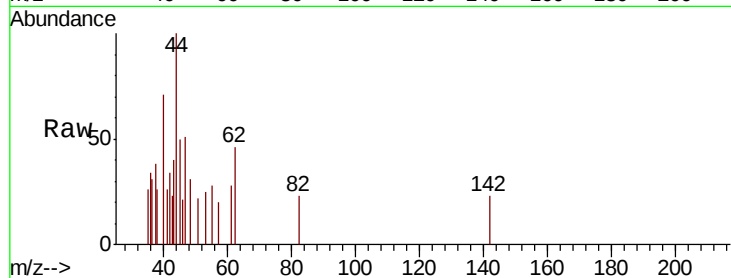




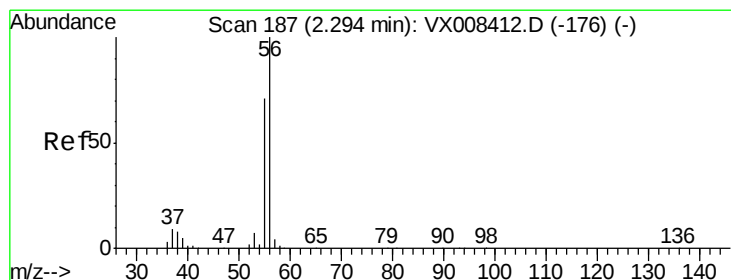
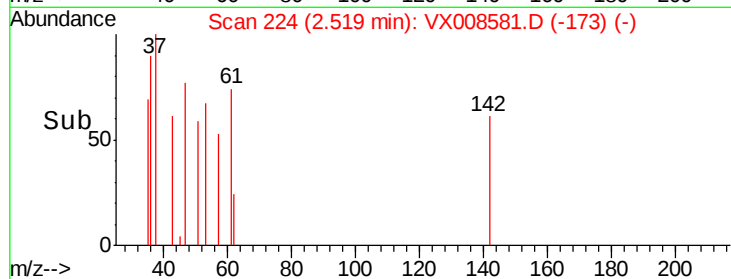
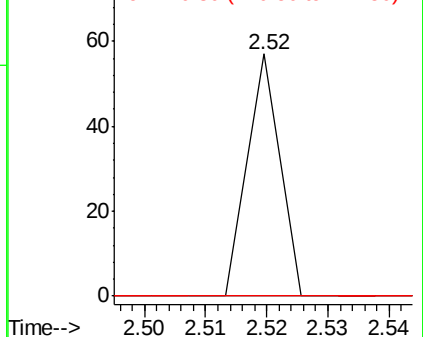
#10
Methyl Iodide
Concen: 4.138 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 33.6 50.4#
141 0.0 11.3 16.9#

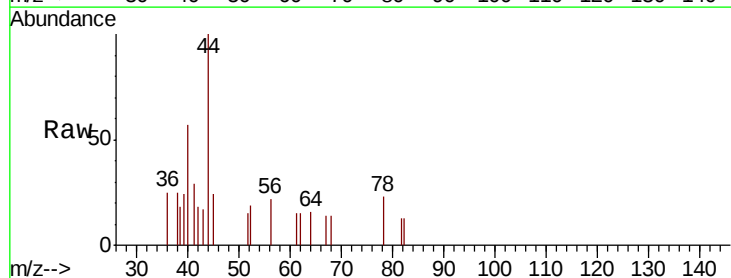


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

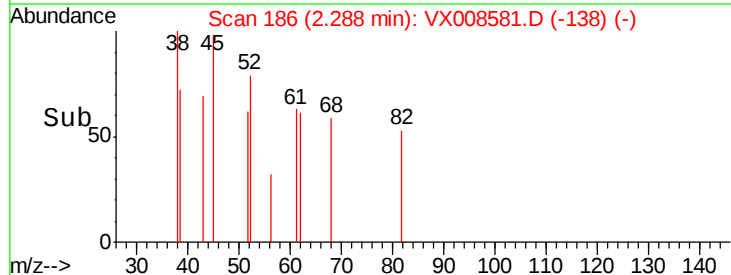
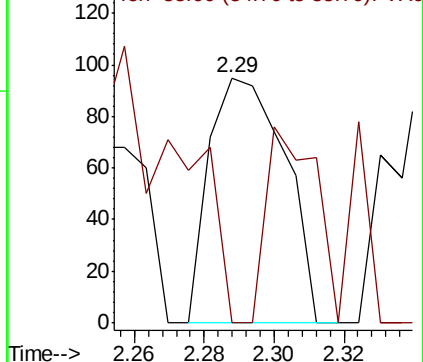


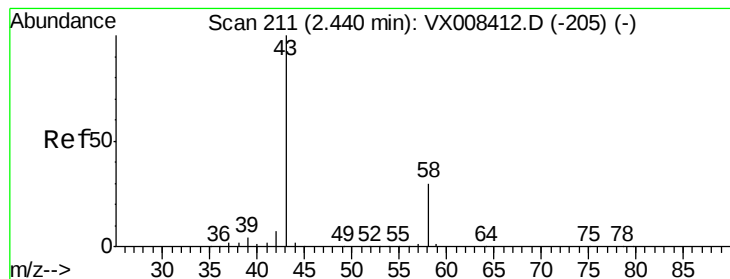
#13
Acrolein
Concen: 0.277 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Tgt Ion: 56 Resp: 143
Ion Ratio Lower Upper
56 100
55 51.7 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.420 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

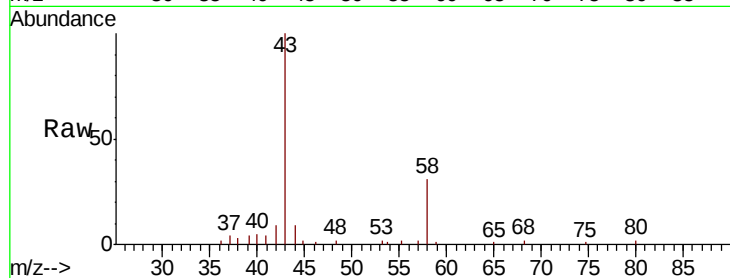
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 7400

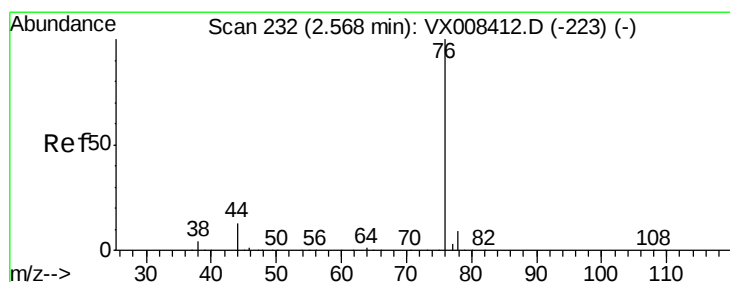
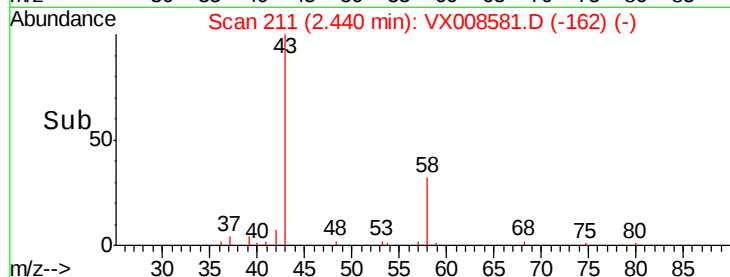
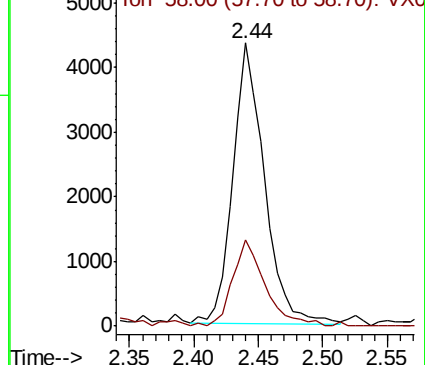
Ion Ratio Lower Upper

43 100

58 31.0 24.2 36.2



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# 232

Delta R.T. 0.00 min

Lab File: VX008581.D

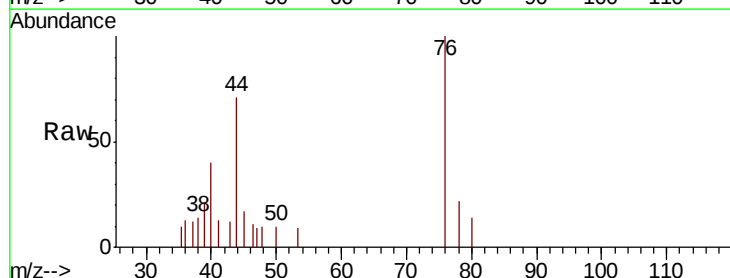
Acq: 01 Apr 2019 20:03

Tgt Ion: 76 Resp: 878

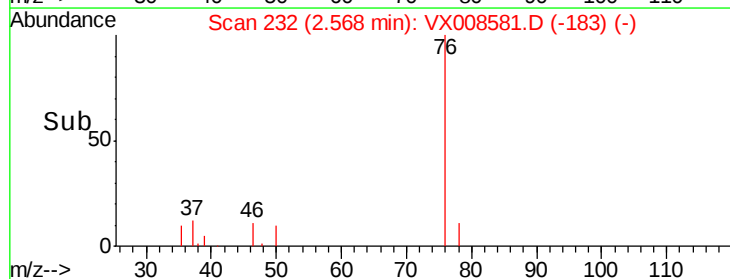
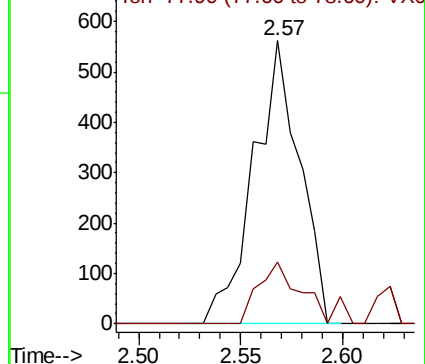
Ion Ratio Lower Upper

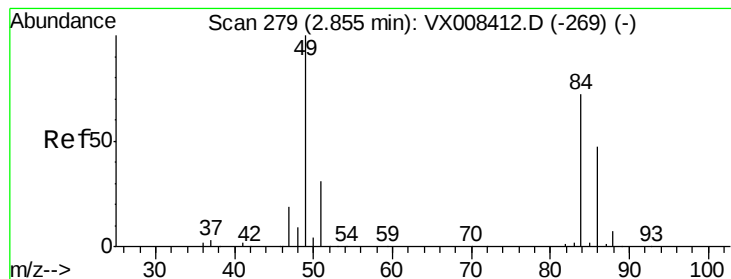
76 100

78 21.9 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 1001

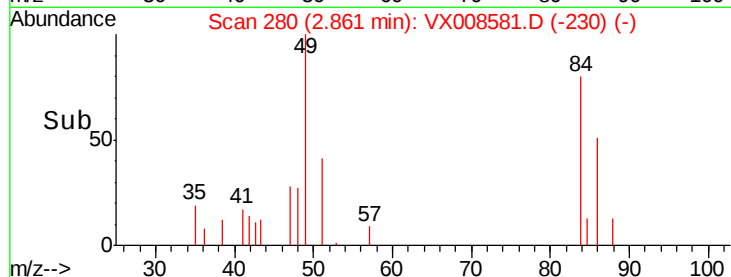
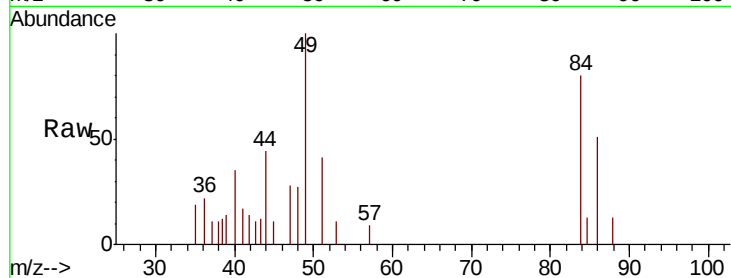
Ion Ratio Lower Upper

84 100

49 110.8 110.6 165.8

51 51.3 33.9 50.9#

86 64.1 52.2 78.2

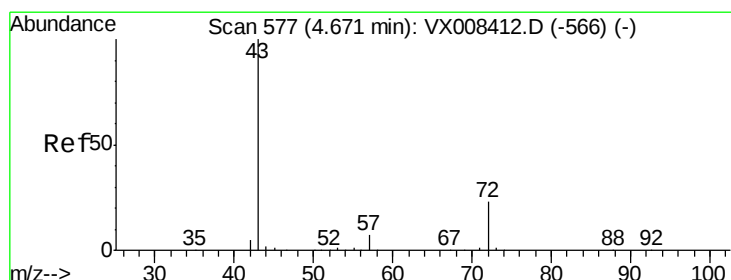
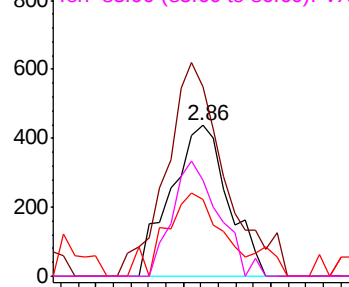


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.271 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008581.D

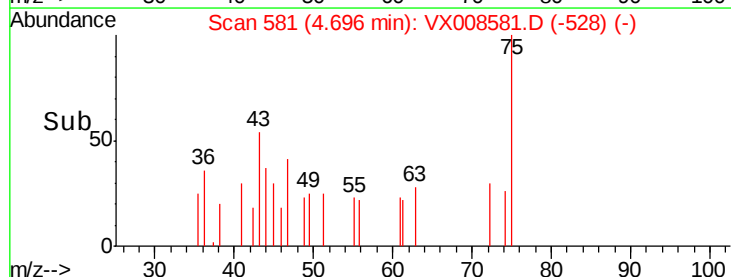
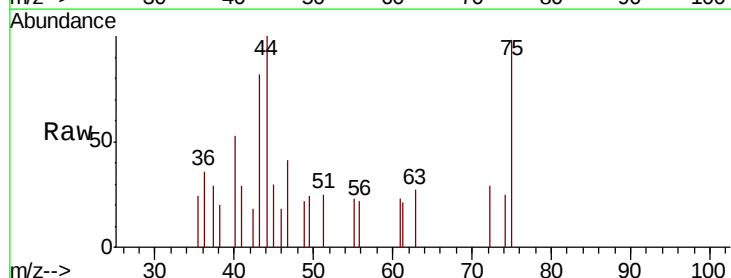
Acq: 01 Apr 2019 20:03

Tgt Ion: 43 Resp: 727

Ion Ratio Lower Upper

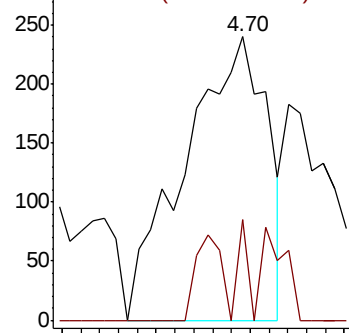
43 100

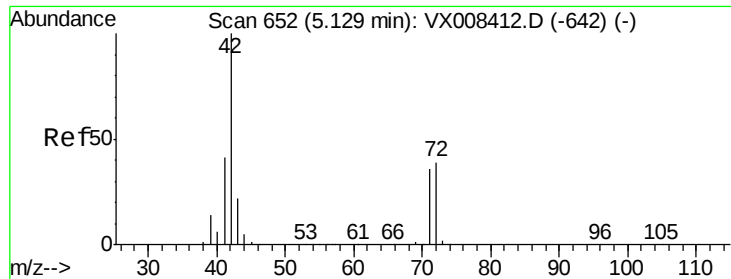
72 35.4 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

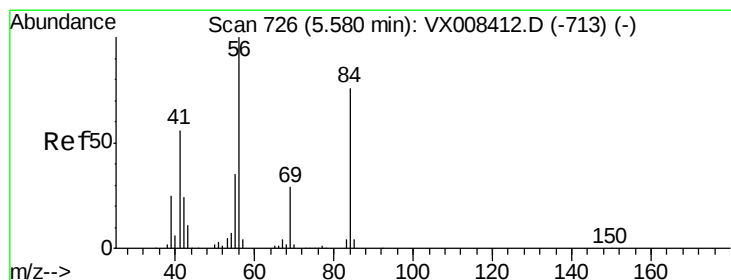
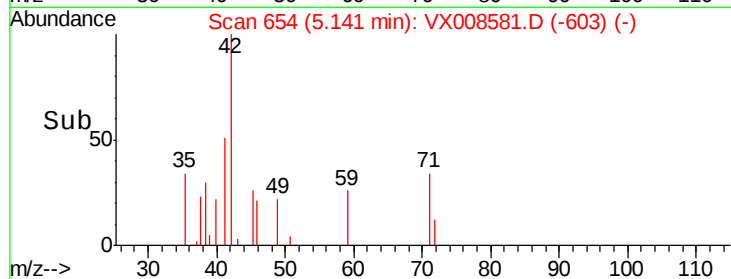
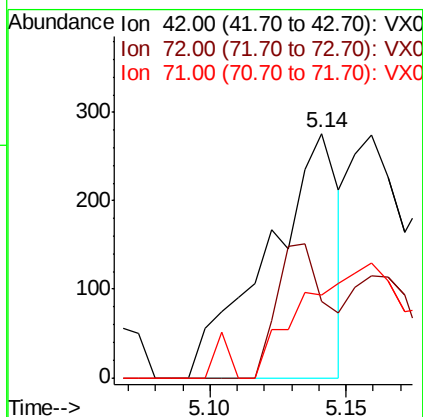
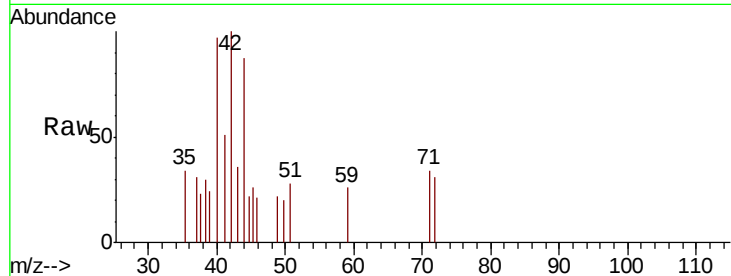




#29
Tetrahydrofuran
Concen: 0.282 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

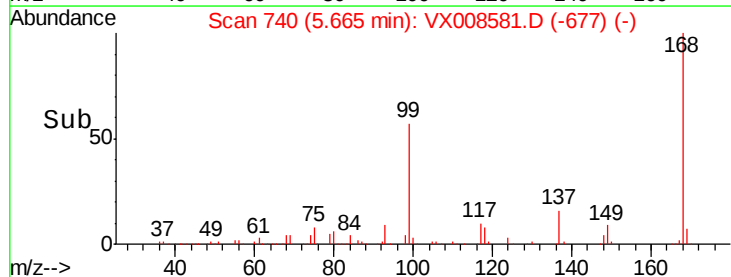
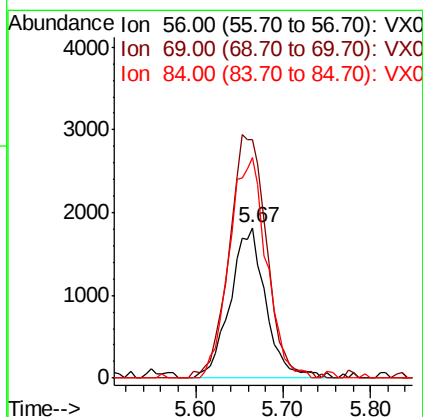
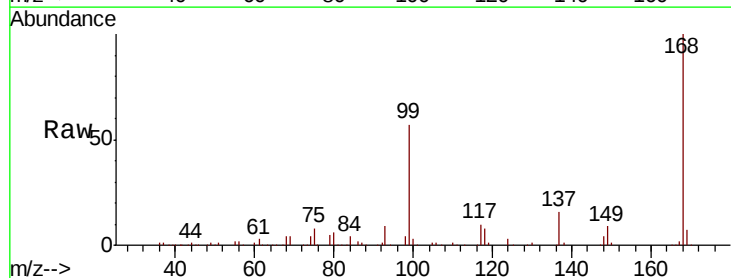
Instrument :
MSVOA_X
ClientSampleId :

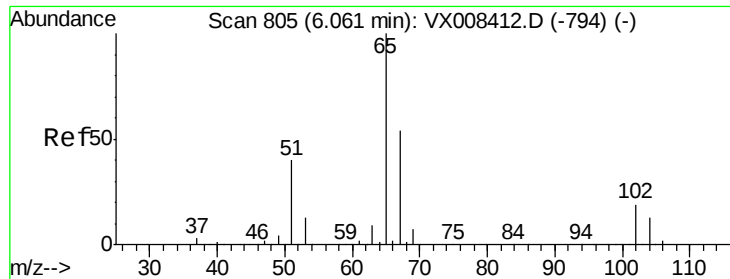
Tot Ion: 42 Resp: 499
Ion Ratio Lower Upper
42 100
72 38.5 31.4 47.2
71 0.0 29.4 44.2#



#31
Cyclohexane
Concen: 1.002 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Tgt Ion: 56 Resp: 5147
Ion Ratio Lower Upper
56 100
69 158.4 23.2 34.8#
84 146.9 60.7 91.1#

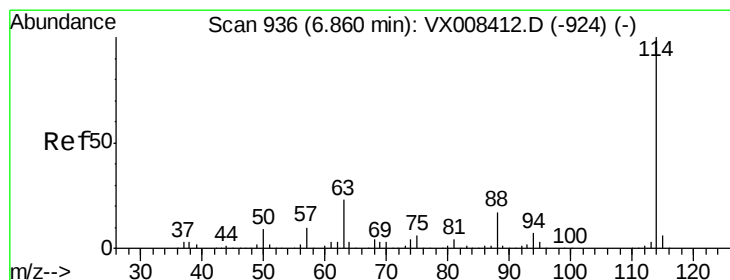
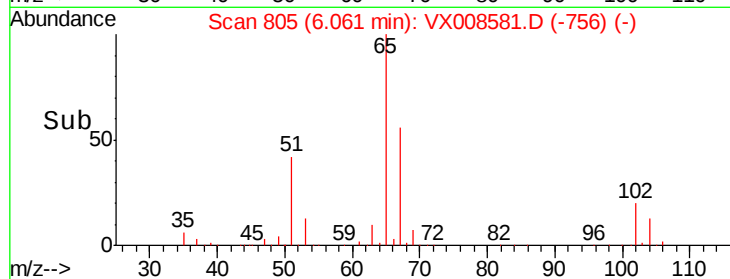
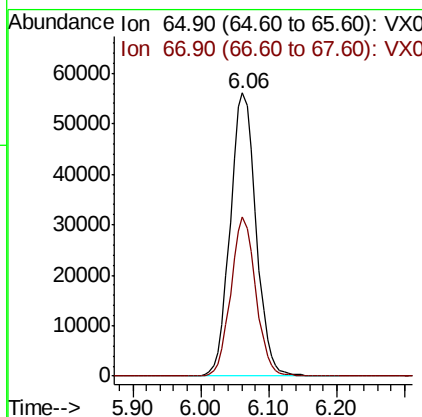
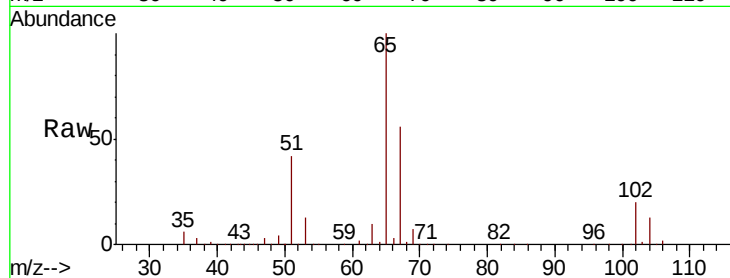




#33
 1,2-Dichloroethane-d4
 Concen: 46.225 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008581.D
 Acq: 01 Apr 2019 20:03

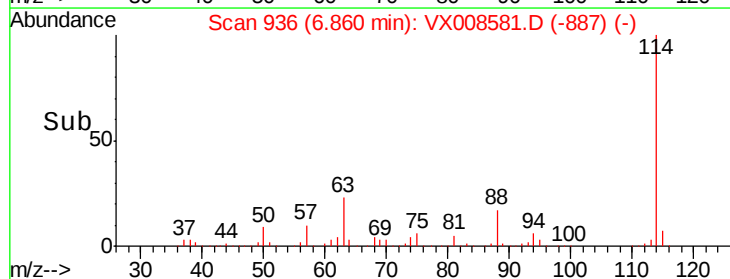
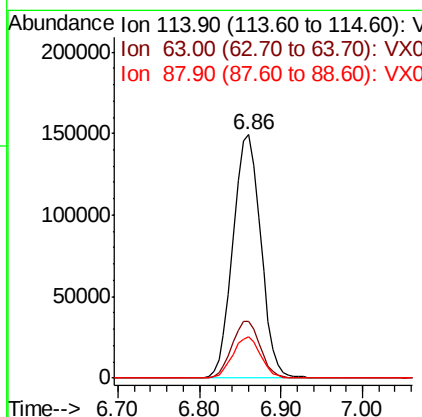
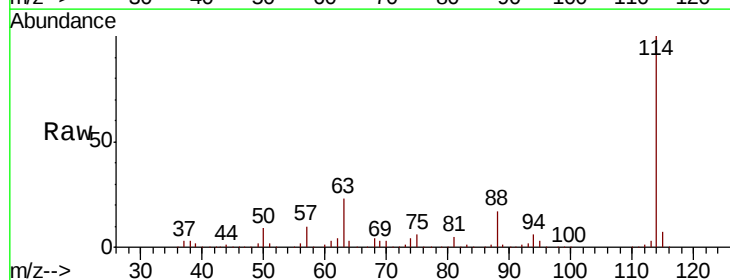
Instrument :
 MSVOA_X
 ClientSampleId :

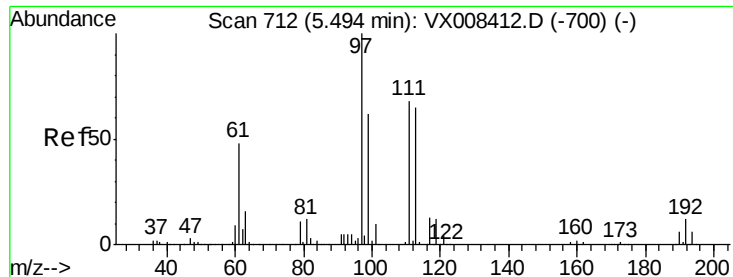
Tot Ion: 65 Resp: 148081
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008581.D
 Acq: 01 Apr 2019 20:03

Tgt Ion: 114 Resp: 352168
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 46.4
 88 17.2 0.0 33.2





#35

Dibromofluoromethane

Concen: 47.355 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

ClientSampled :

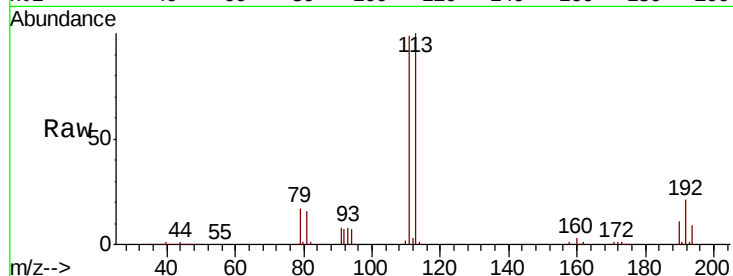
Tot Ion:113 Resp: 108742

Ion Ratio Lower Upper

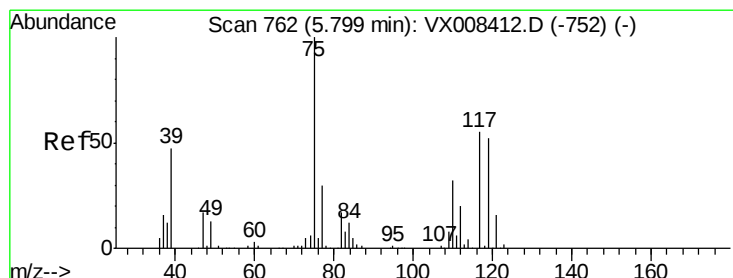
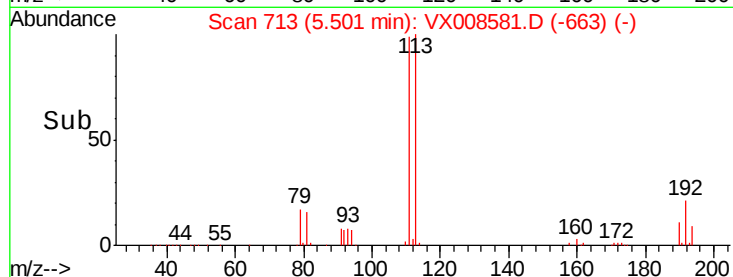
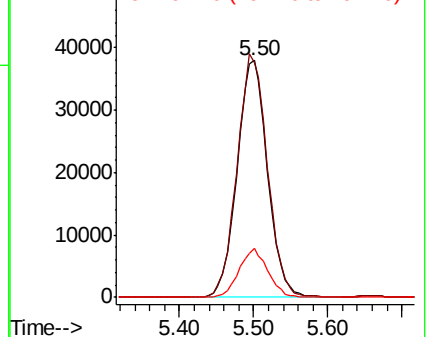
113 100

111 102.3 83.0 124.4

192 19.5 15.6 23.4



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.790 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

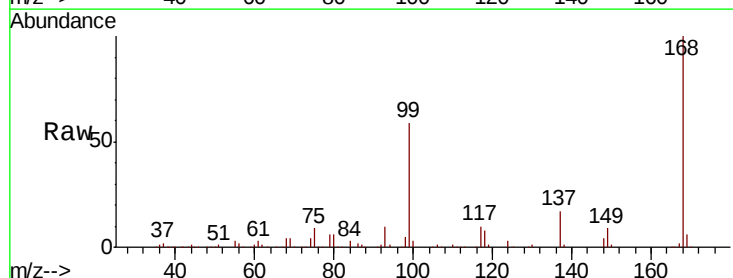
Tgt Ion: 75 Resp: 17985

Ion Ratio Lower Upper

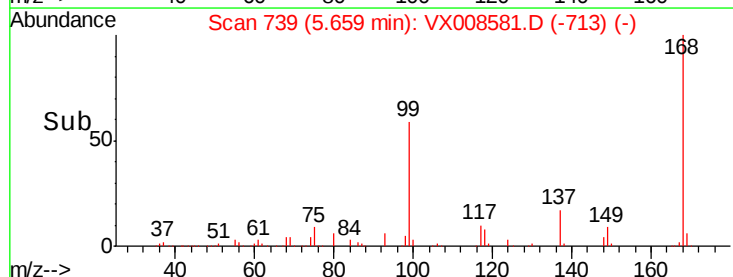
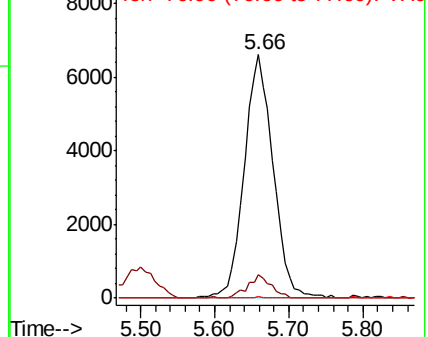
75 100

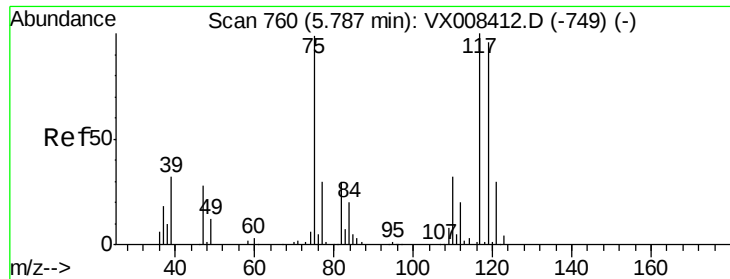
110 7.9 16.6 49.7#

77 0.1 24.2 36.2#



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: 6.762 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

ClientSampleId :

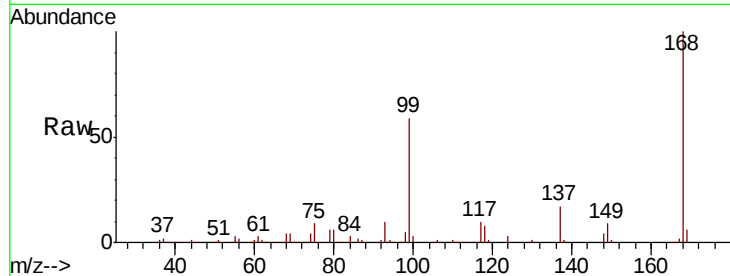
Tot Ion:117 Resp: 21190

Ion Ratio Lower Upper

117 100

119 5.6 76.7 115.1#

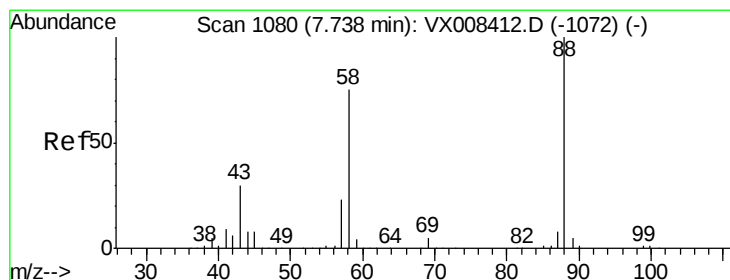
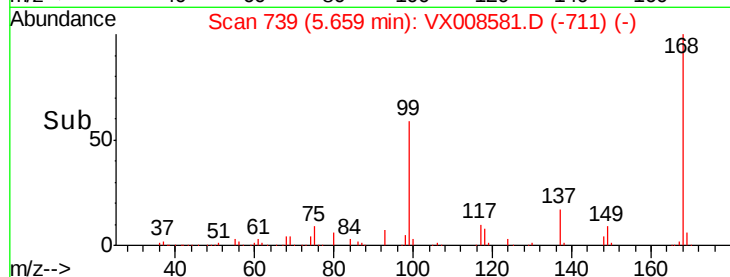
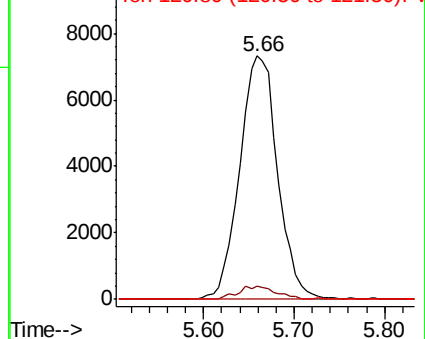
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 0.245 ug/l

RT: 7.94 min Scan# 1113

Delta R.T. 0.20 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

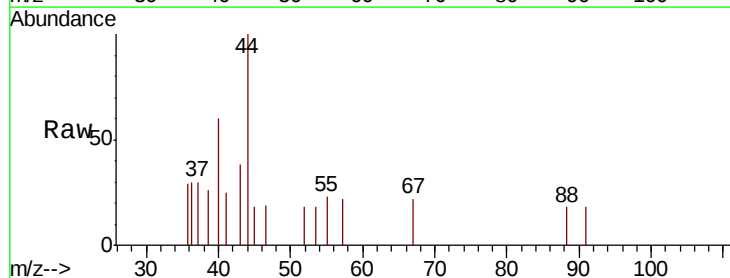
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

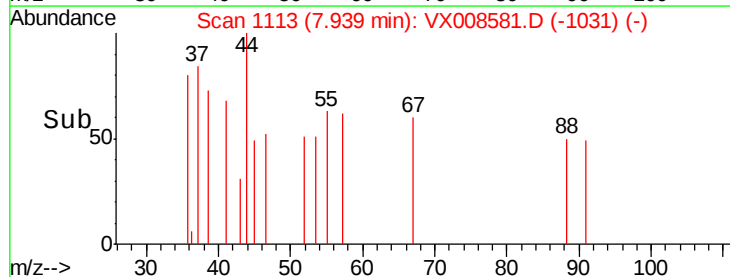
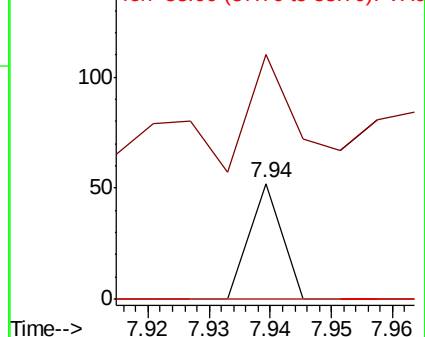
58 0.0 63.0 94.4#

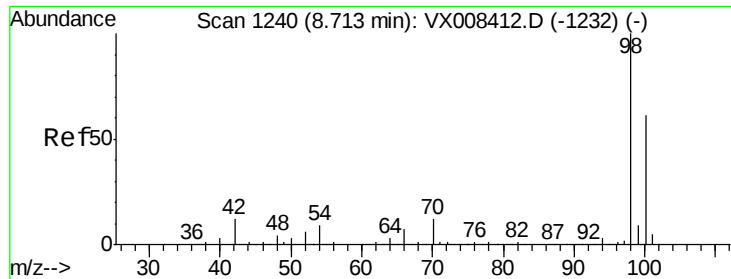


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

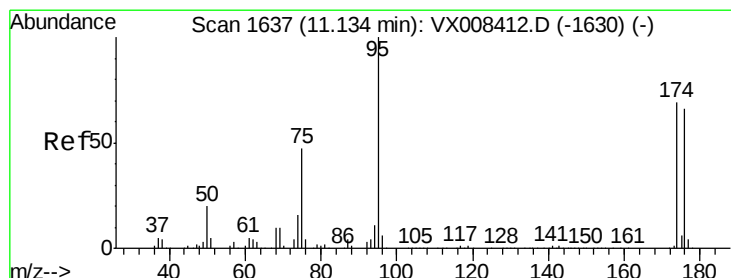
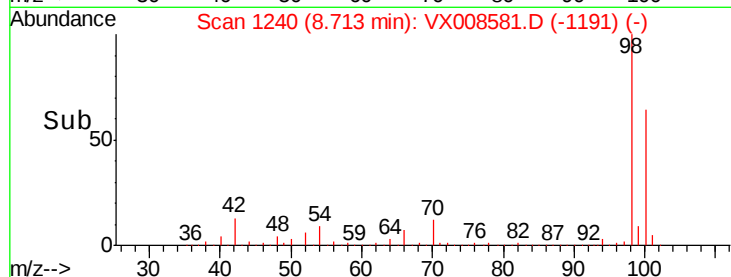
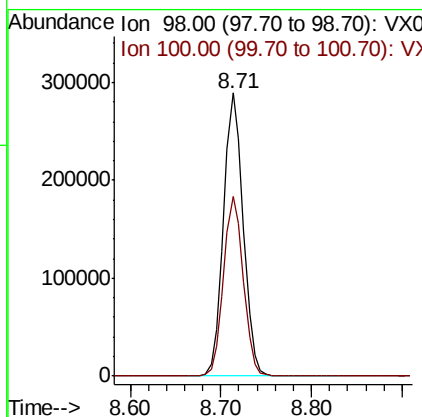
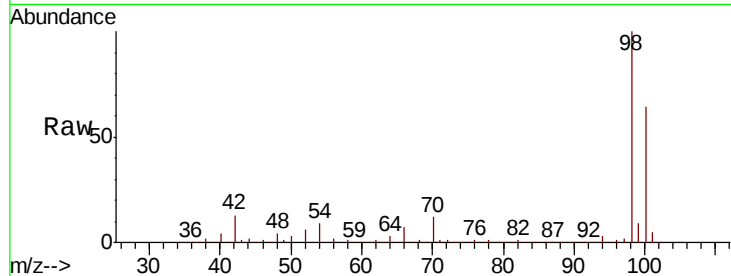




#50
Toluene-d8
Concen: 47.765 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

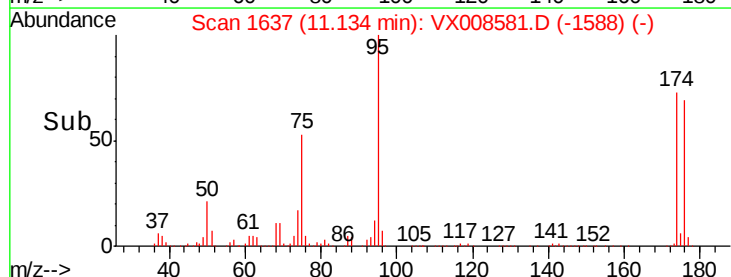
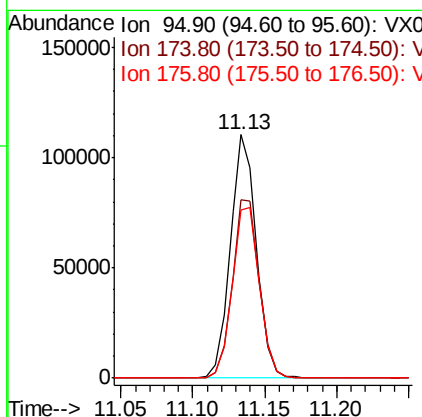
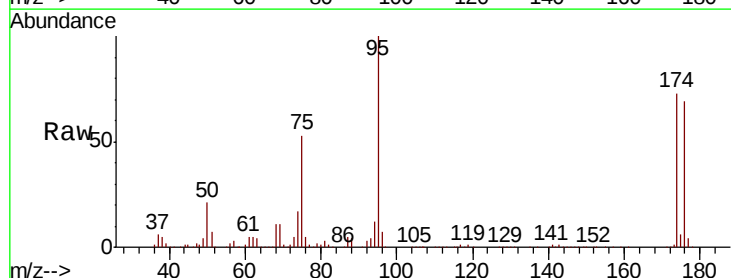
Instrument :
MSVOA_X
ClientSampleId :

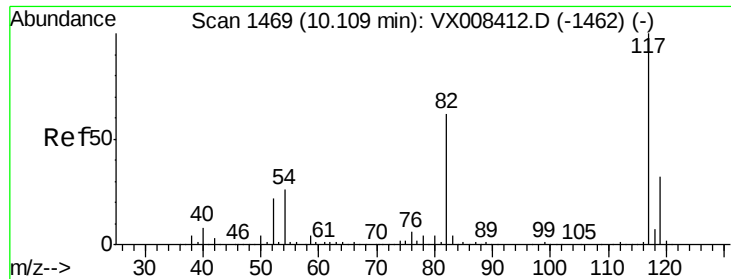
Tot Ion: 98 Resp: 438580
Ion Ratio Lower Upper
98 100
100 63.7 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 41.180 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Tgt Ion: 95 Resp: 140116
Ion Ratio Lower Upper
95 100
174 75.7 0.0 147.2
176 73.4 0.0 142.4

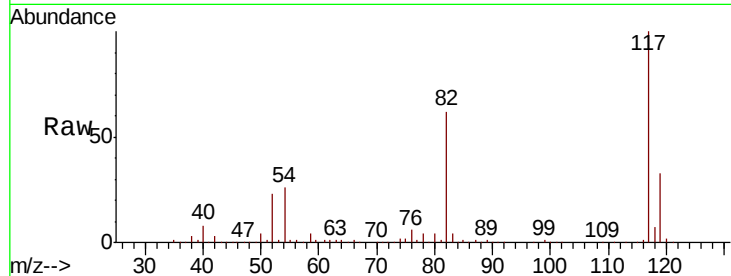




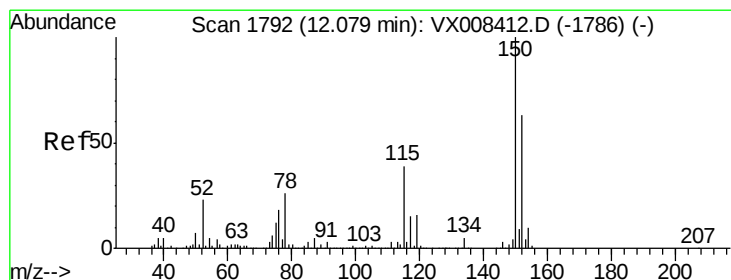
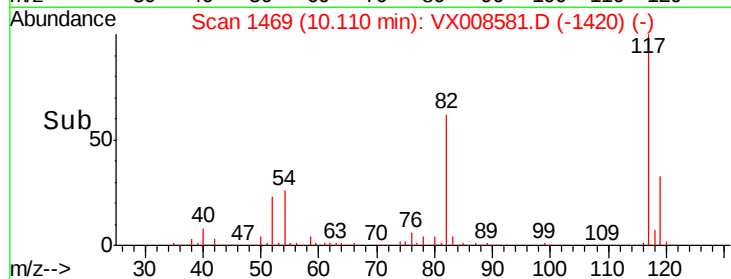
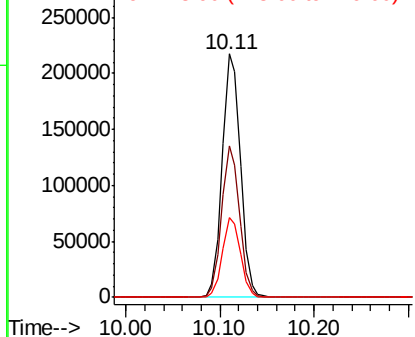
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 292766
Ion Ratio Lower Upper
117 100
82 62.4 49.4 74.2
119 32.7 25.4 38.0

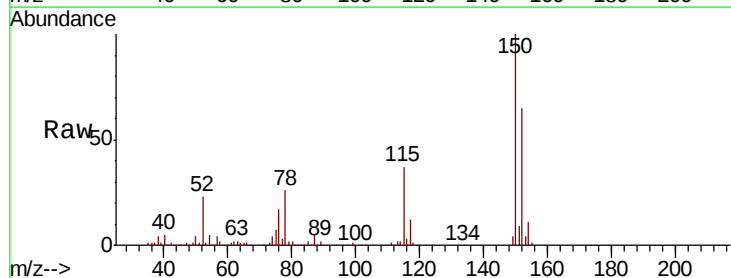


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

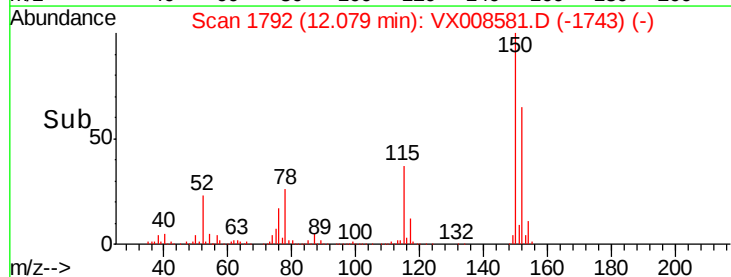
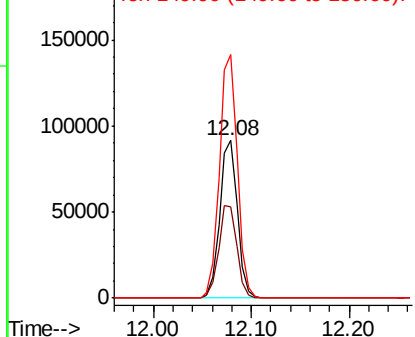


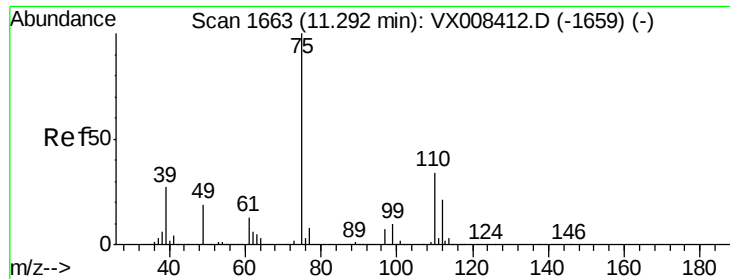
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008581.D
Acq: 01 Apr 2019 20:03

Tgt Ion:152 Resp: 113968
Ion Ratio Lower Upper
152 100
115 60.5 43.5 130.5
150 157.5 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: 21.364 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

Instrument :

MSVOA_X

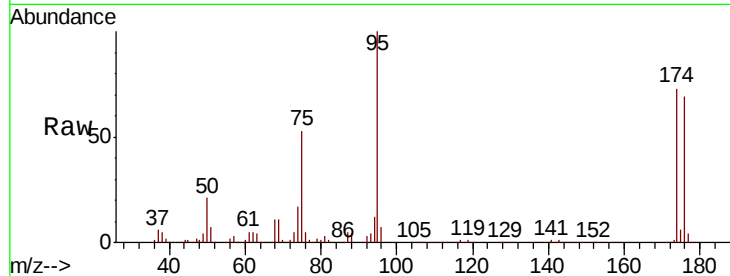
ClientSampleId :

Tot Ion: 75 Resp: 72384

Ion Ratio Lower Upper

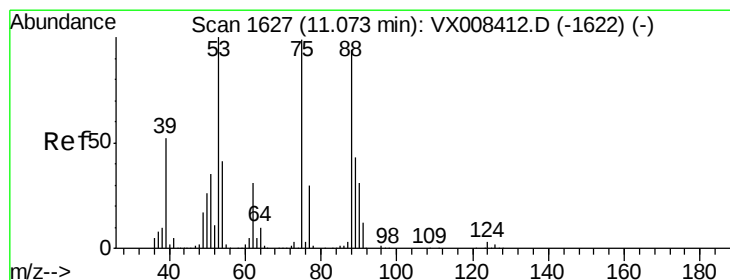
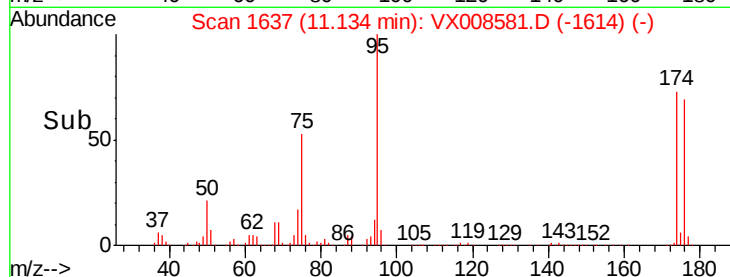
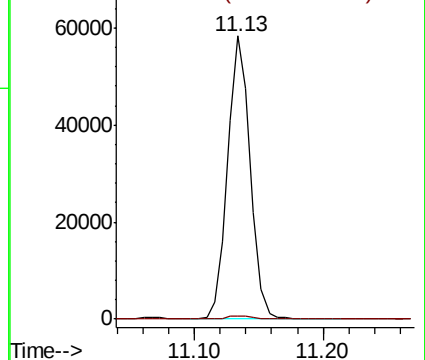
75 100

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: 68.425 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008581.D

Acq: 01 Apr 2019 20:03

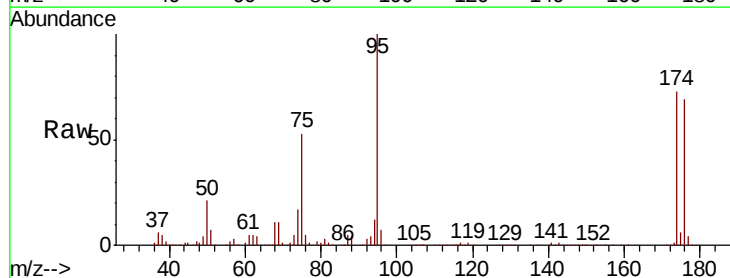
Tgt Ion: 75 Resp: 72384

Ion Ratio Lower Upper

75 100

53 0.1 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

