

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042519\
 Data File : VX009165.D
 Acq On : 25 Apr 2019 16:19
 Operator : JC/SP
 Sample : K2566-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 26 04:39:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	338481	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	293666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123657	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	139981	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
35) Dibromofluoromethane	5.50	113	102982	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	8.71	98	425140	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	11.13	95	138726	45.36	ug/l	0.00
Spiked Amount			Recovery	=	90.72%	

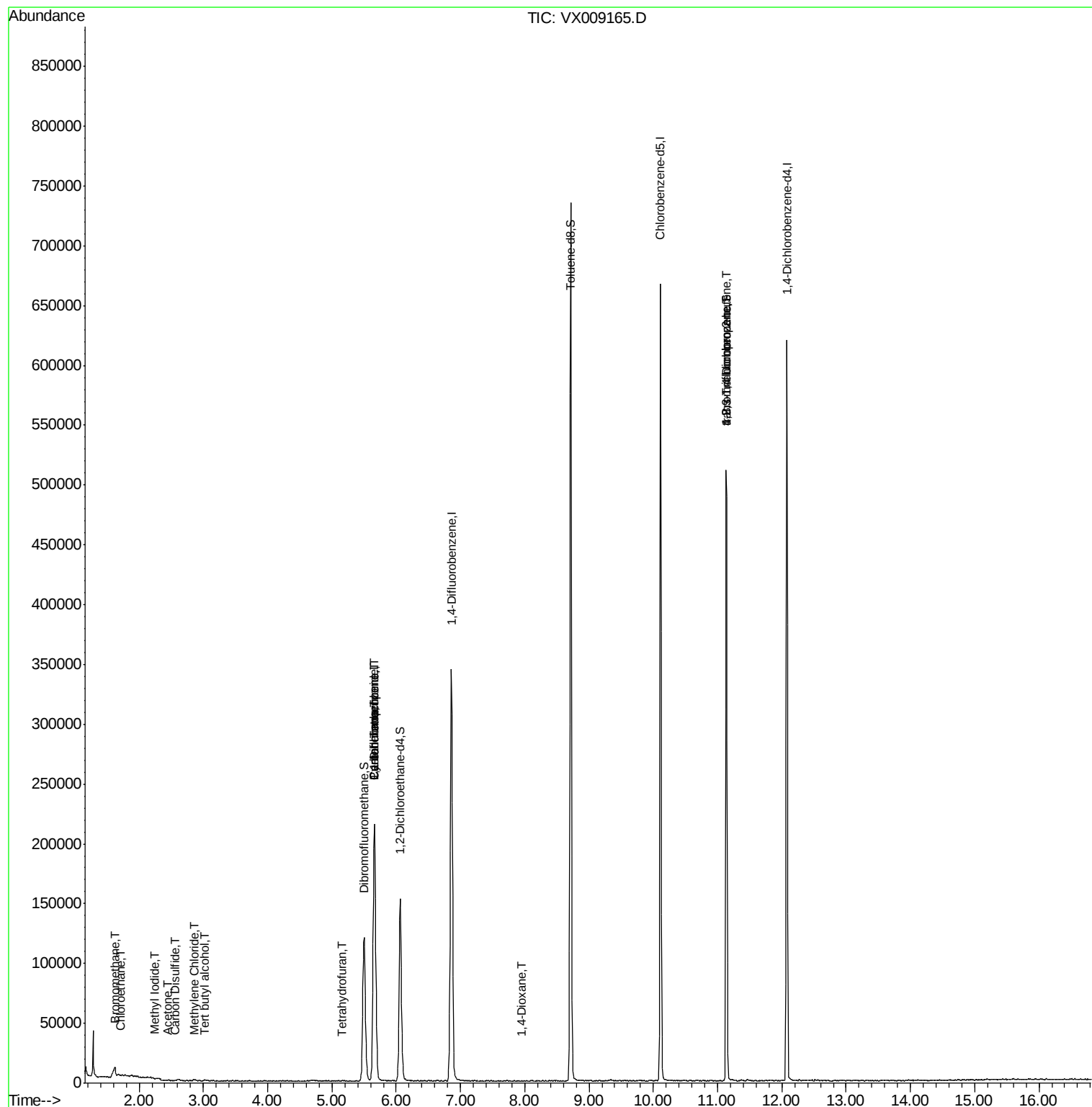
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	168	3.934	ug/l #	54
6) Chloroethane	1.70	64	1268	0.745	ug/l #	44
10) Methyl Iodide	2.25	142	19	4.422	ug/l #	42
11) Tert butyl alcohol	3.03	59	360	0.547	ug/l	95
16) Acetone	2.44	43	1000	0.651	ug/l #	85
17) Carbon Disulfide	2.56	76	525	1.330	ug/l #	75
20) Methylene Chloride	2.85	84	551	0.210	ug/l #	82
28) Bromochloromethane	5.02	49	46	Below Cal	#	21
29) Tetrahydrofuran	5.16	42	452	0.275	ug/l #	46
31) Cyclohexane	5.65	56	4734	1.003	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16408	4.687	ug/l #	50
38) Carbon Tetrachloride	5.66	117	19952	6.723	ug/l #	18
49) 1,4-Dioxane	7.96	88	24	0.357	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	71251	23.597	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	71251	60.581	ug/l #	11

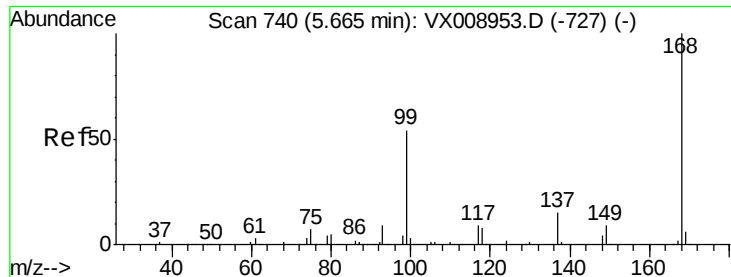
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

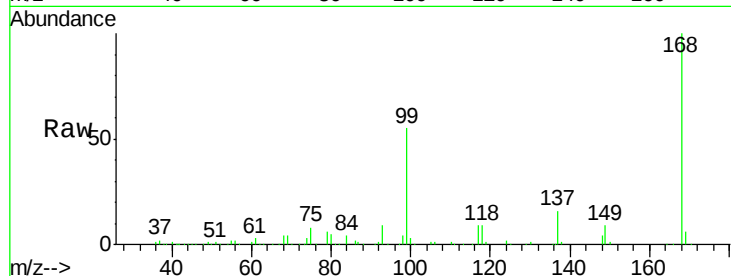
ClientSampled :

Tot Ion:168 Resp: 210206

Ion Ratio Lower Upper

168 100

99 54.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

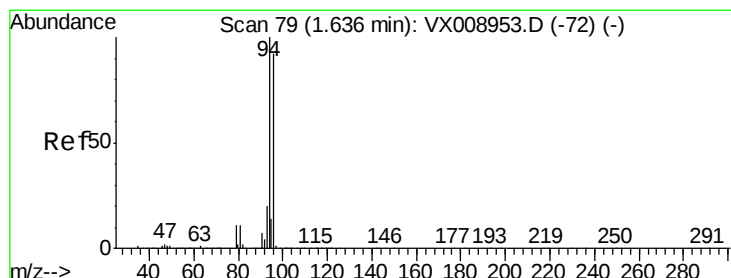
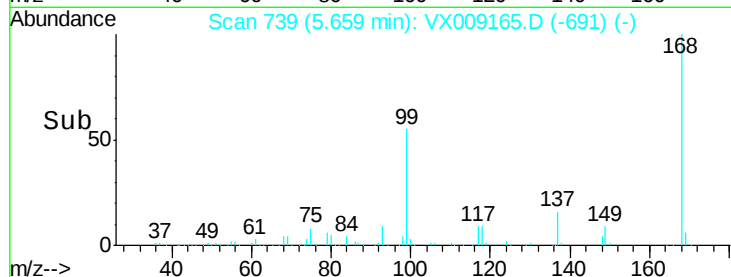
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 3.934 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009165.D

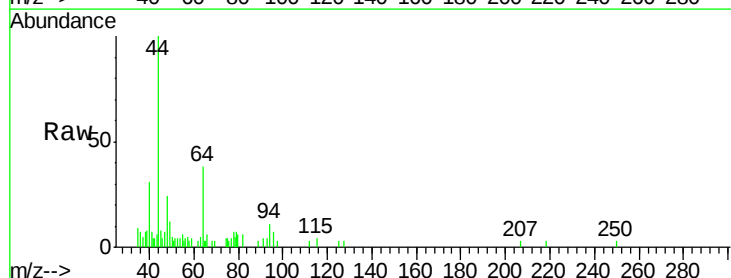
Acq: 25 Apr 2019 16:19

Tgt Ion: 94 Resp: 168

Ion Ratio Lower Upper

94 100

96 47.9 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

250

200

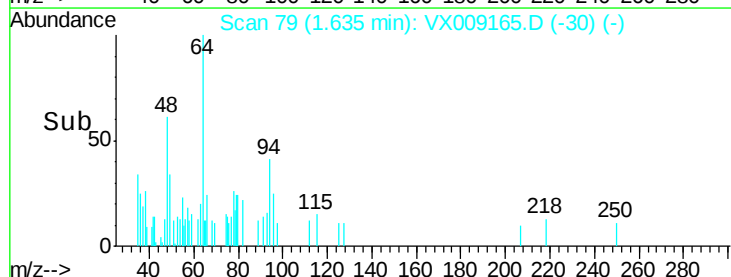
150

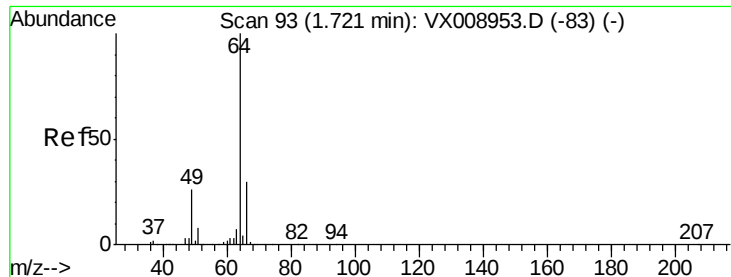
100

50

0

Time--> 1.61 1.62 1.63 1.64 1.65





#6

Chloroethane

Concen: 0.745 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.02 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

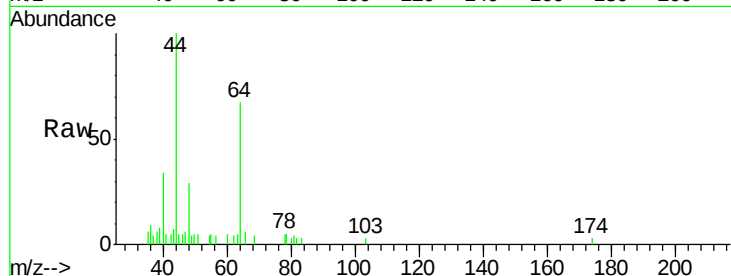
ClientSampleId :

Tot Ion: 64 Resp: 1268

Ion Ratio Lower Upper

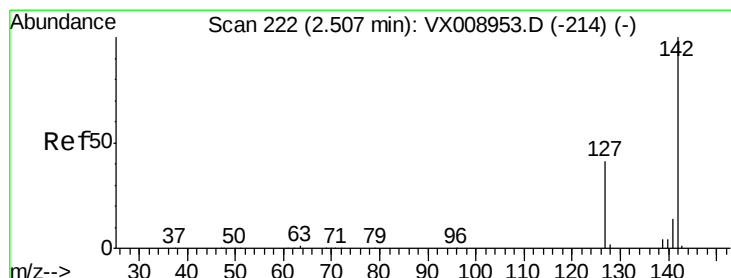
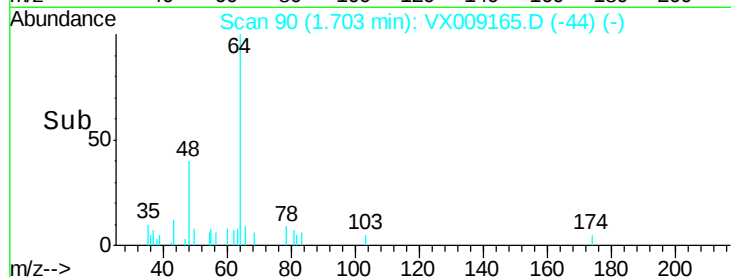
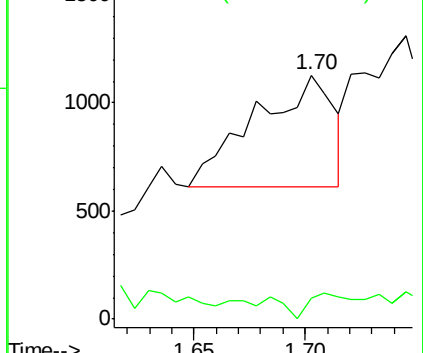
64 100

66 0.0 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 4.422 ug/l

RT: 2.25 min Scan# 179

Delta R.T. -0.26 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

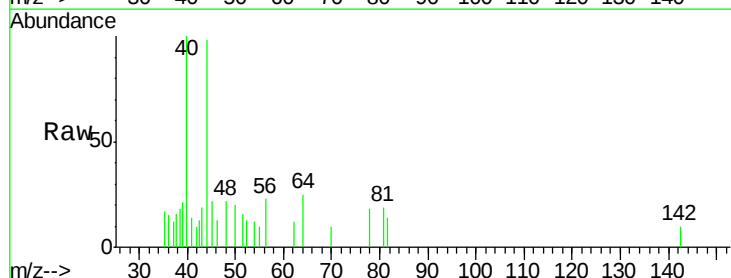
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

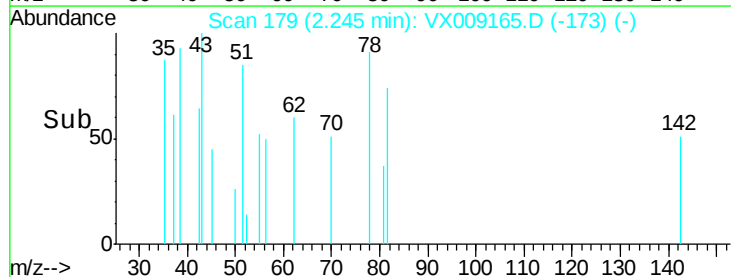
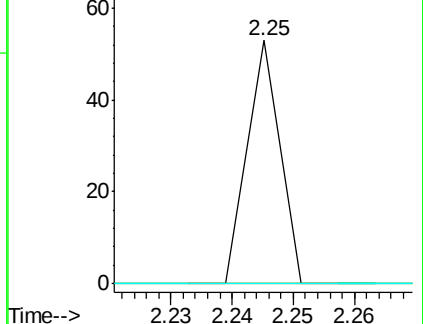
141 0.0 11.4 17.2#

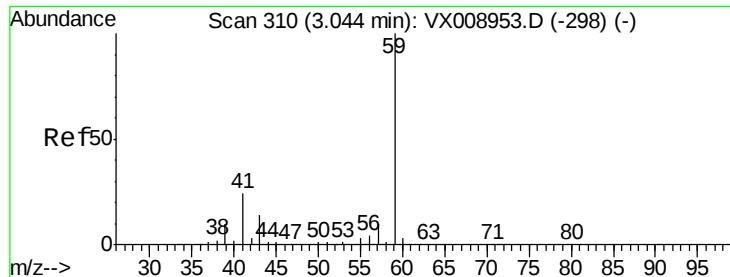


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

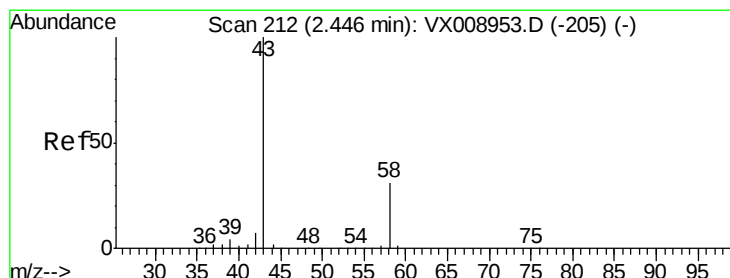
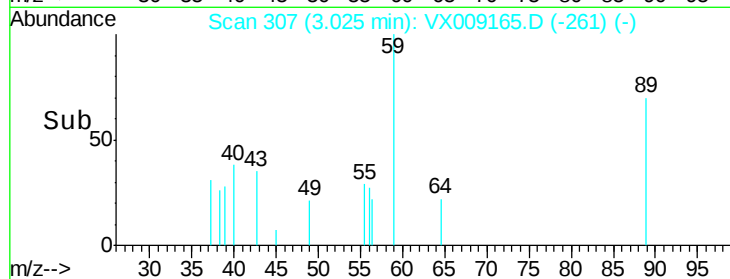
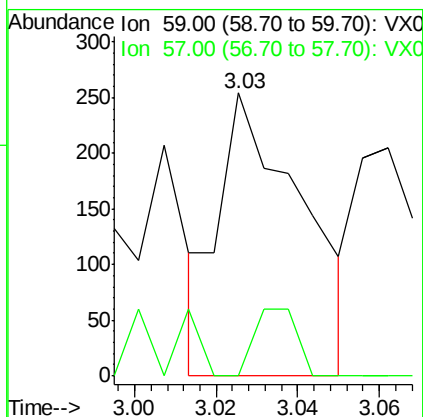
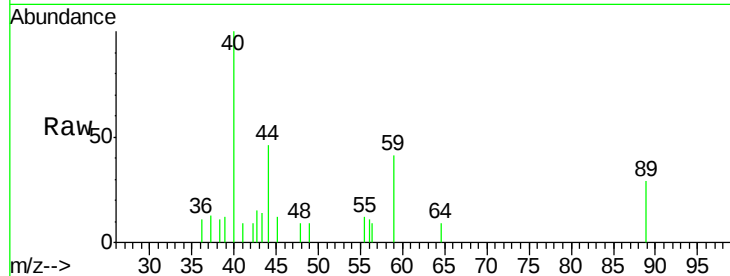




#11
Tert butyl alcohol
Concen: 0.547 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009165.D
Acq: 25 Apr 2019 16:19

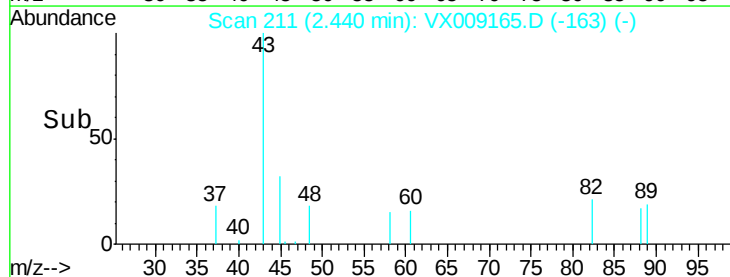
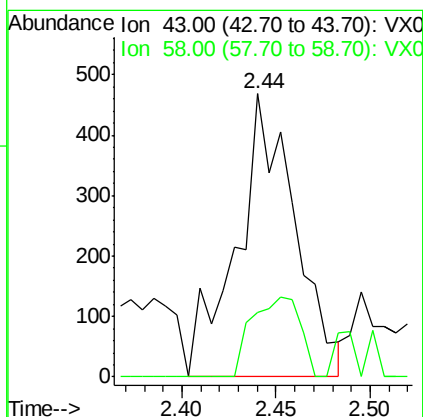
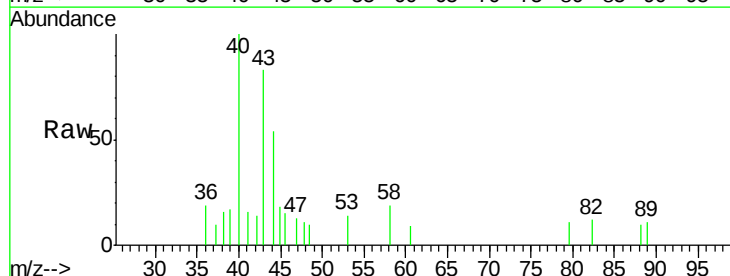
Instrument :
MSVOA_X
ClientSampled :

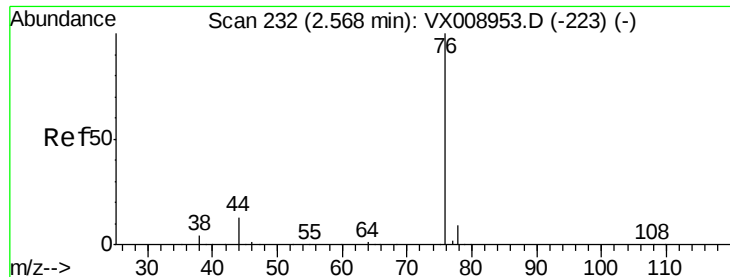
Tot Ion: 59 Resp: 360
Ion Ratio Lower Upper
59 100
57 12.2 8.4 12.6



#16
Acetone
Concen: 0.651 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009165.D
Acq: 25 Apr 2019 16:19

Tgt Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
58 22.9 24.8 37.2#





#17

Carbon Disulfide

Concen: 1.330 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

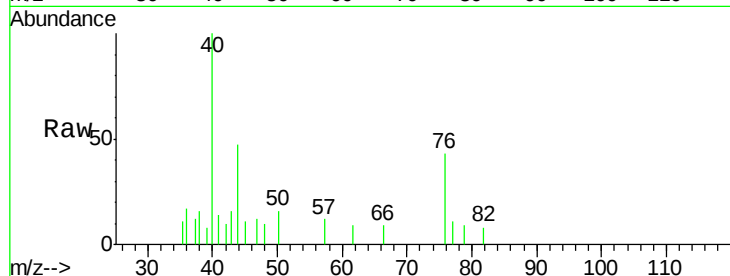
ClientSampleId :

Tot Ion: 76 Resp: 525

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

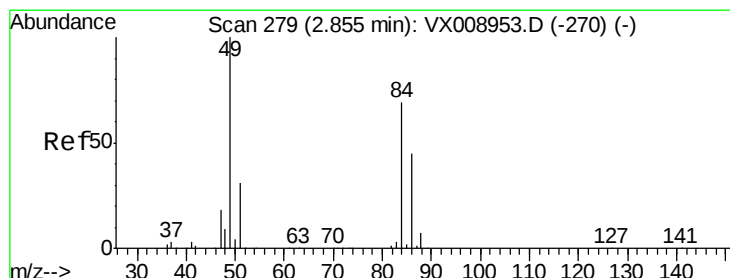
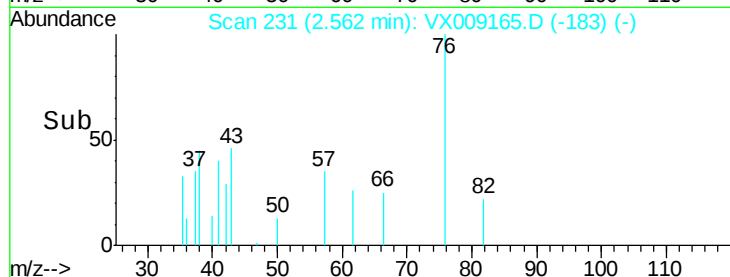
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 0.210 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Tgt Ion: 84 Resp: 551

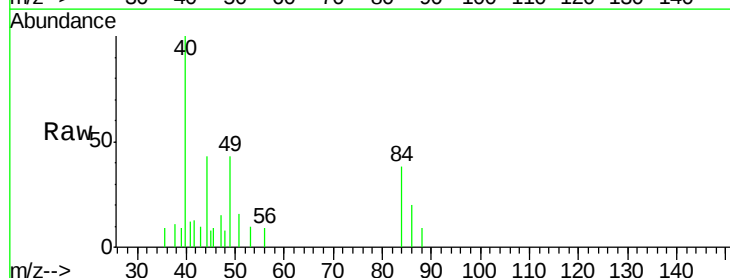
Ion Ratio Lower Upper

84 100

49 114.8 115.4 173.0#

51 41.3 35.8 53.6

86 54.2 52.1 78.1



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

400

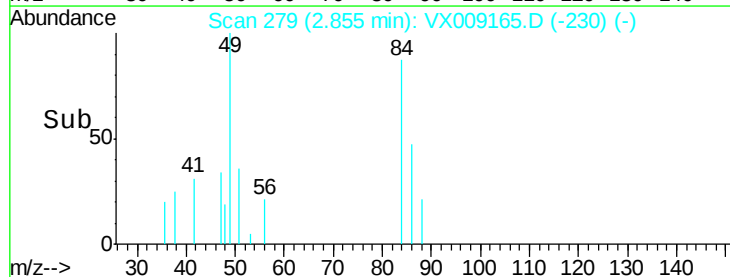
300

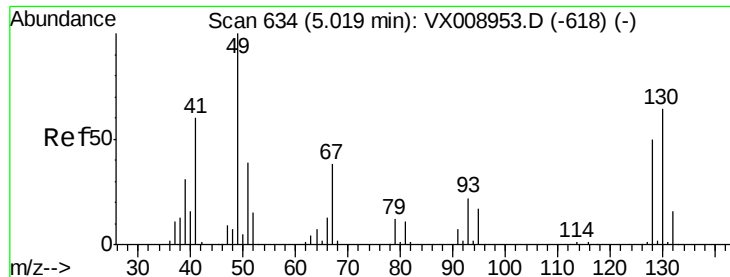
200

100

0

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 634

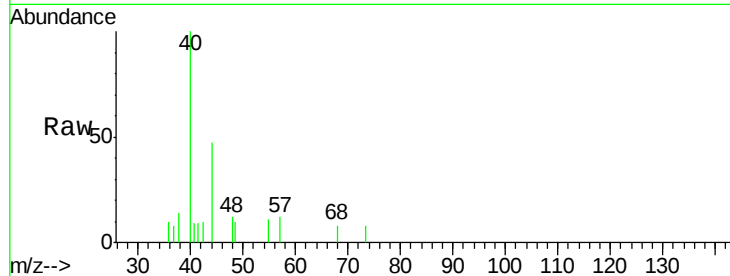
Delta R.T. 0.00 min

Lab File: VX009165.D

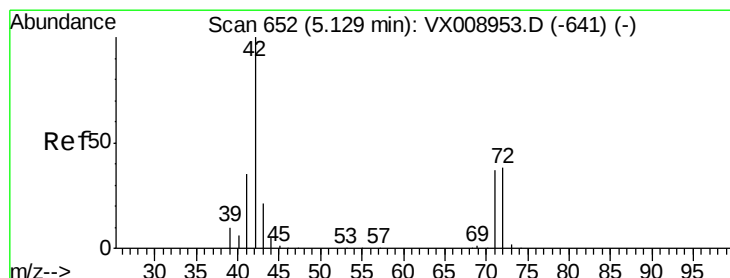
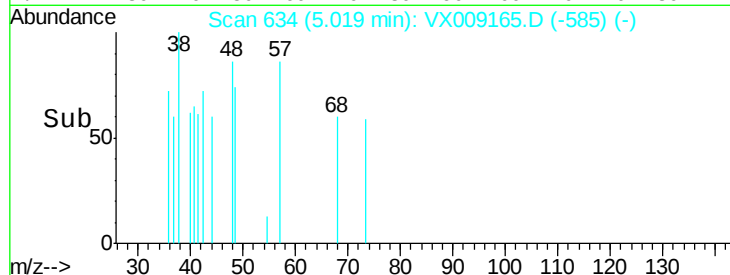
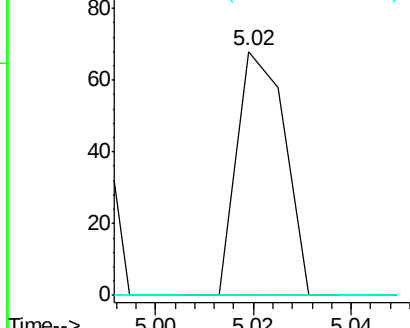
Acq: 25 Apr 2019 16:19

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 46
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 50.4 75.6#



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



#29

Tetrahydrofuran

Concen: 0.275 ug/l

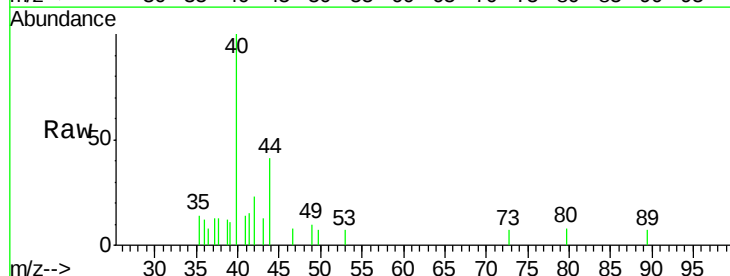
RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

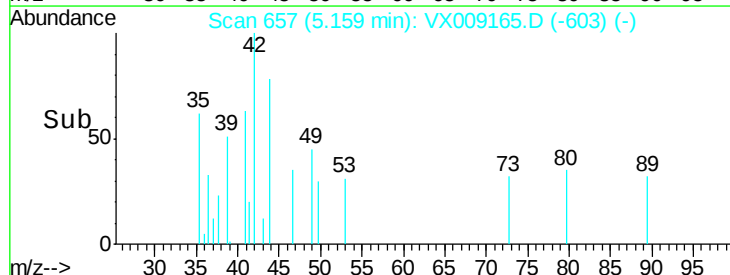
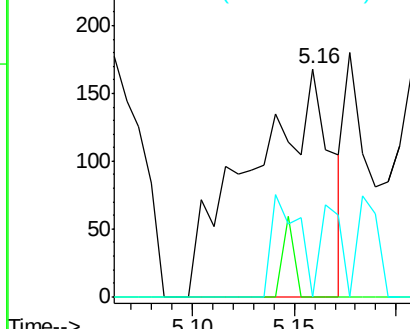
Lab File: VX009165.D

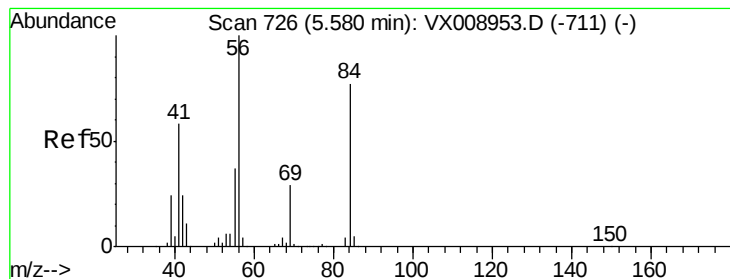
Acq: 25 Apr 2019 16:19

Tgt Ion: 42 Resp: 452
Ion Ratio Lower Upper
42 100
72 0.0 30.6 45.8#
71 10.4 28.8 43.2#



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: 1.003 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :
MSVOA_X
ClientSampleId :

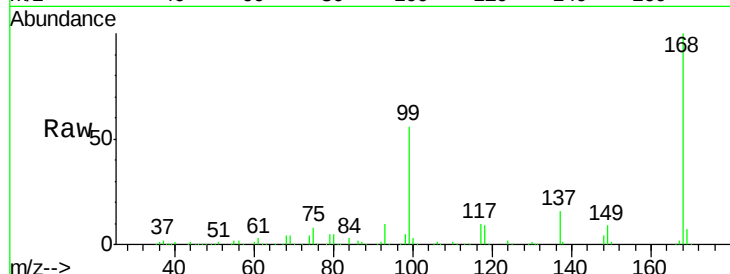
Tot Ion: 56 Resp: 4734

Ion Ratio Lower Upper

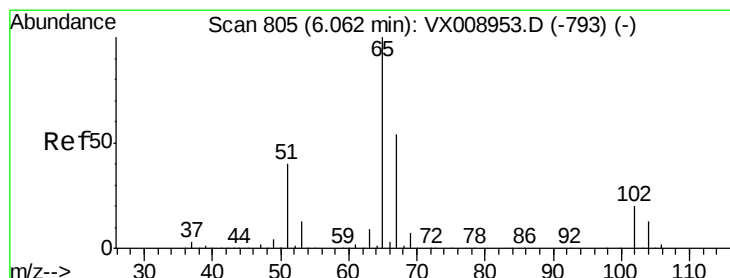
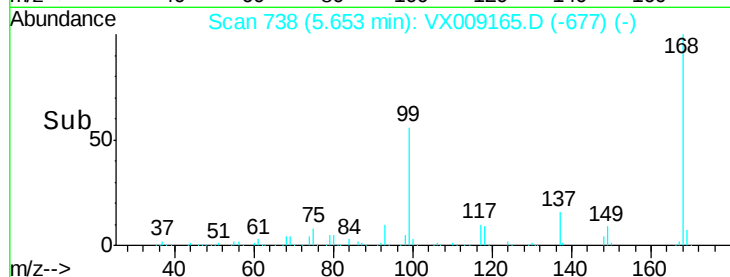
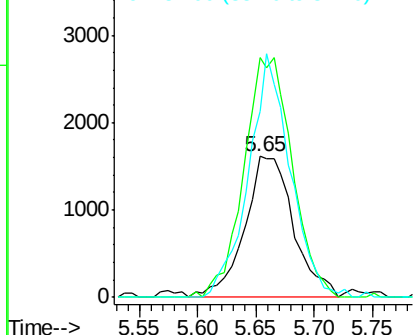
56 100

69 170.2 23.3 34.9#

84 131.8 61.7 92.5#



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: 47.253 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009165.D

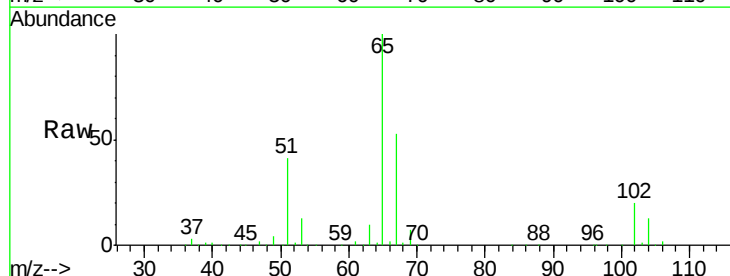
Acq: 25 Apr 2019 16:19

Tgt Ion: 65 Resp: 139981

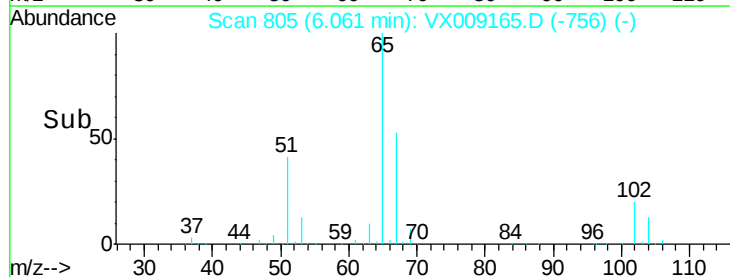
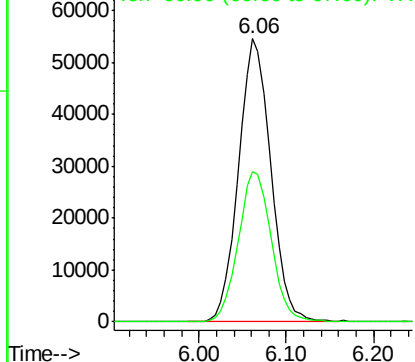
Ion Ratio Lower Upper

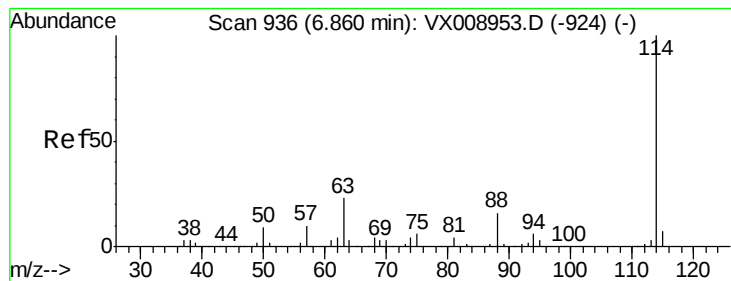
65 100

67 54.4 0.0 108.6



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

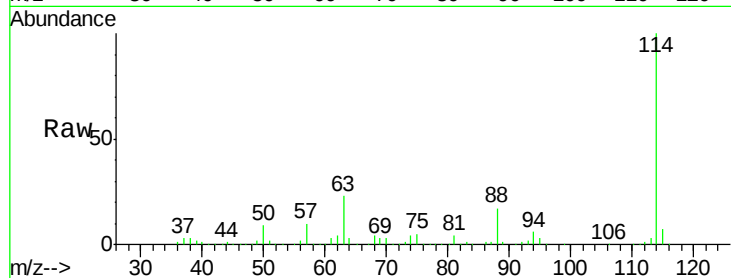
Tot Ion:114 Resp: 338481

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.0

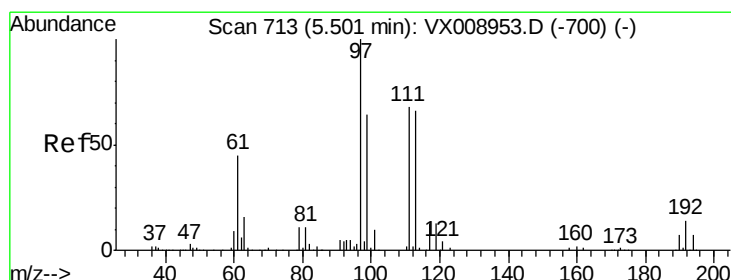
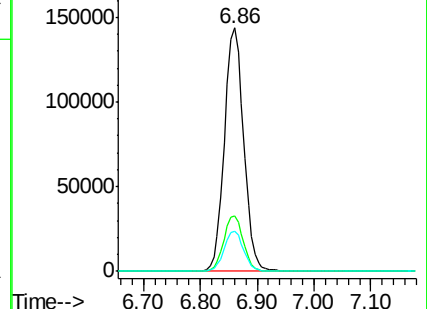
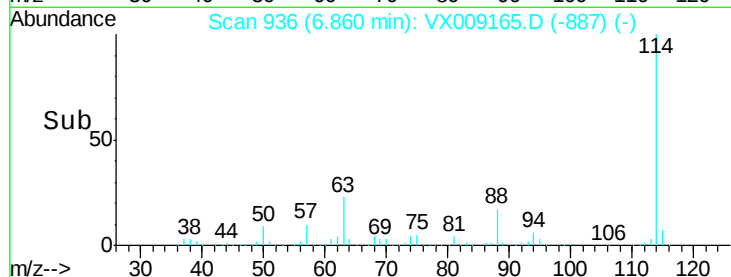
88 16.6 0.0 32.6



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: 47.407 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

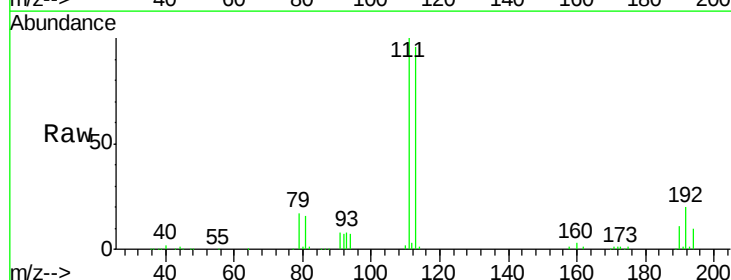
Tgt Ion:113 Resp: 102982

Ion Ratio Lower Upper

113 100

111 104.5 82.9 124.3

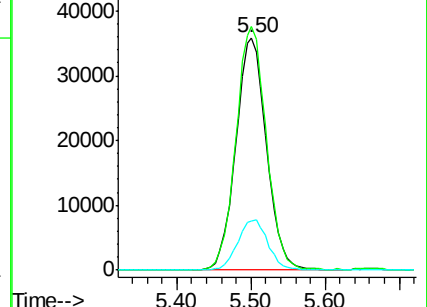
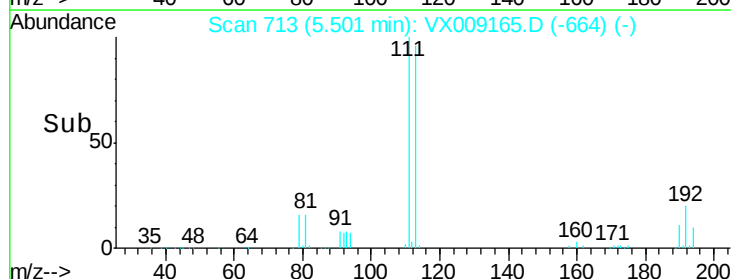
192 21.5 17.4 26.0

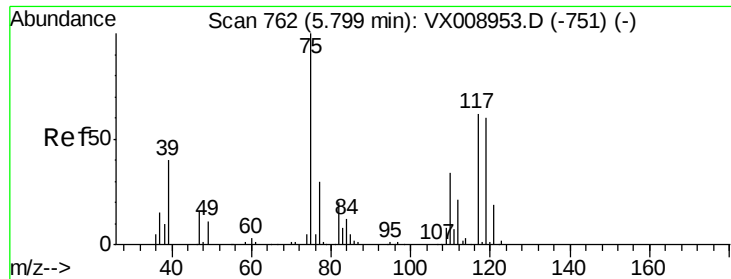


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

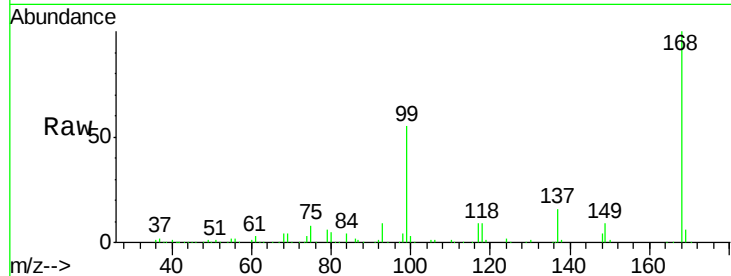




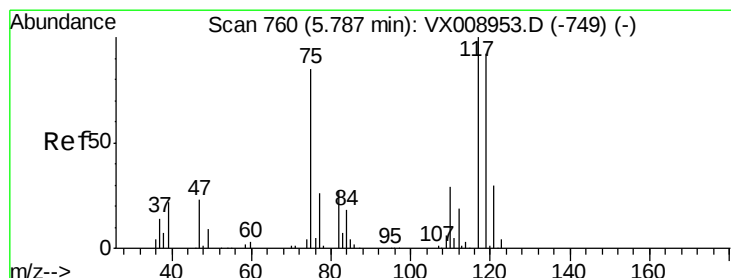
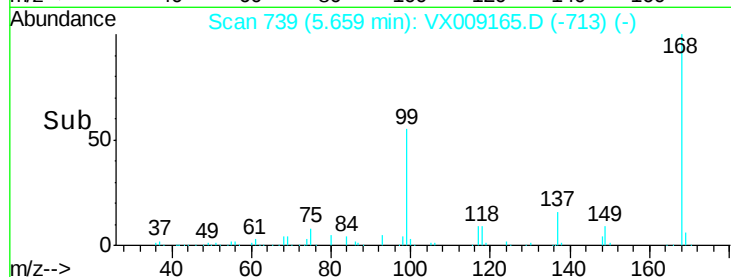
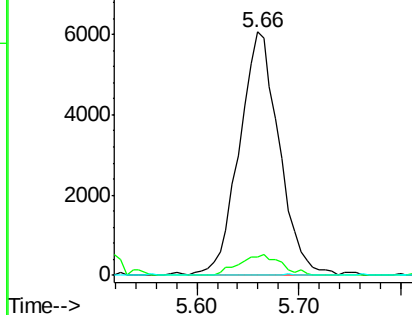
#36
 1,1-Dichloropropene
 Concen: 4.687 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009165.D
 Acq: 25 Apr 2019 16:19

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 16408
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.9 50.7#
 77 0.0 25.0 37.4#

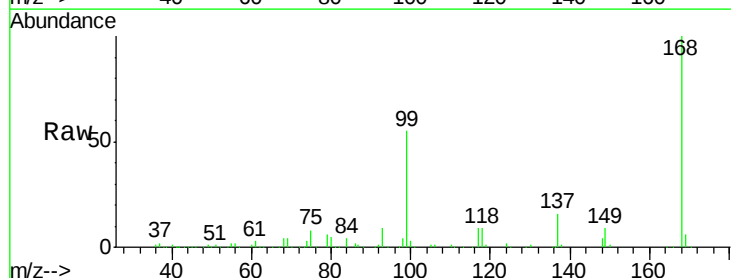


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

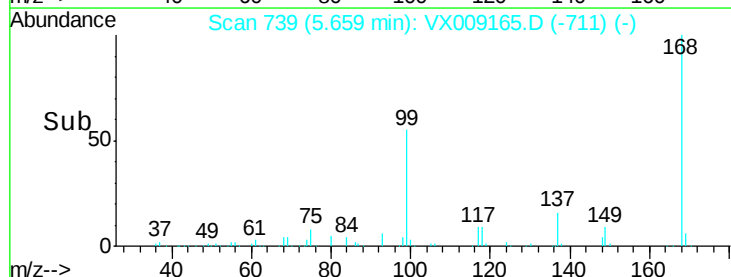
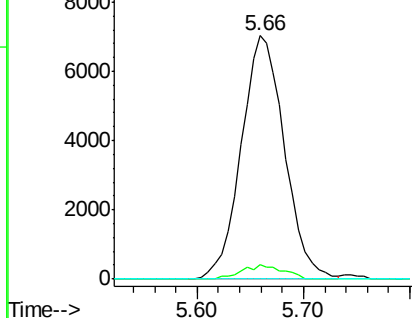


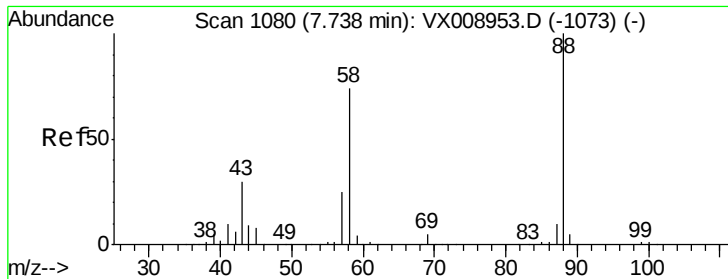
#38
 Carbon Tetrachloride
 Concen: 6.723 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009165.D
 Acq: 25 Apr 2019 16:19

Tgt Ion: 117 Resp: 19952
 Ion Ratio Lower Upper
 117 100
 119 5.8 73.8 110.8#
 121 0.0 23.6 35.4#



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: 0.357 ug/l

RT: 7.96 min Scan# 1117

Delta R.T. 0.23 min

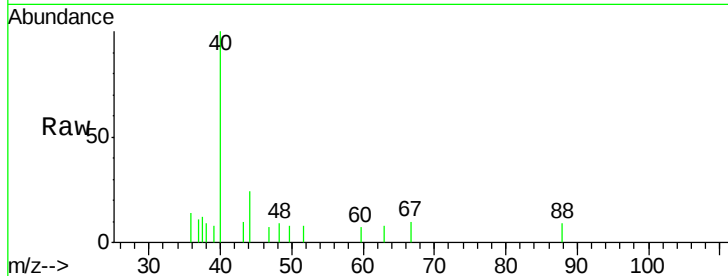
Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

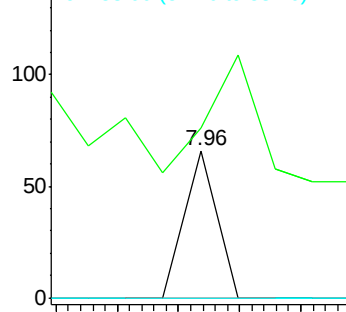
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 24

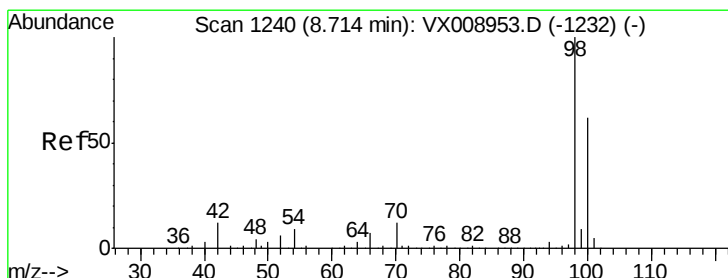
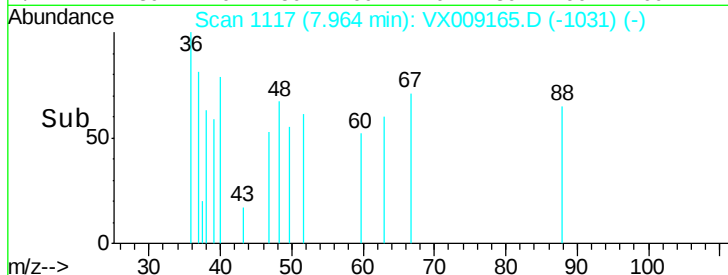
Ion	Ratio	Lower	Upper
88	100		
43	529.2	29.3	43.9#
58	0.0	62.6	93.8#



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



Time--> 7.94 7.95 7.96 7.97 7.98



#50

Toluene-d8

Concen: 49.074 ug/l

RT: 8.71 min Scan# 1240

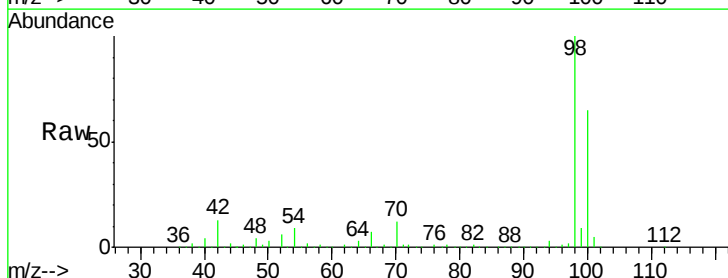
Delta R.T. -0.00 min

Lab File: VX009165.D

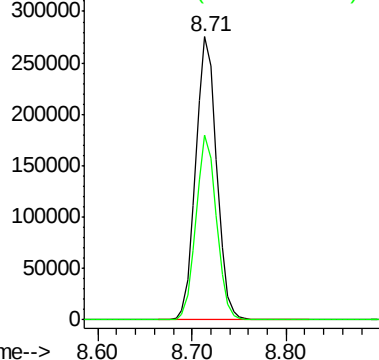
Acq: 25 Apr 2019 16:19

Tgt Ion: 98 Resp: 425140

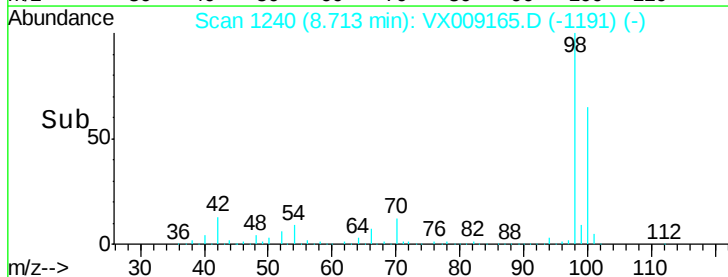
Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.4	77.2

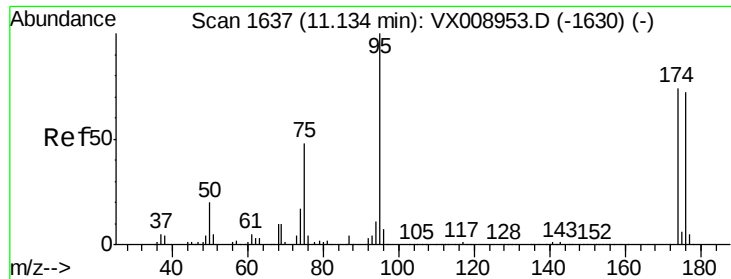


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0



Time--> 8.60 8.70 8.80





#62

4-Bromofluorobenzene

Concen: 45.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

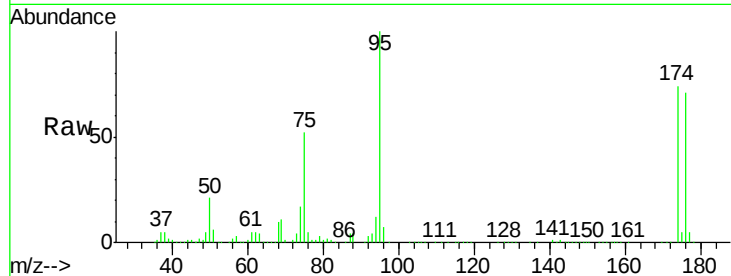
Tot Ion: 95 Resp: 138726

Ion Ratio Lower Upper

95 100

174 80.3 0.0 159.6

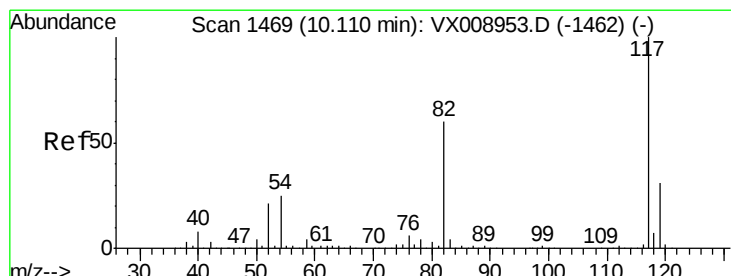
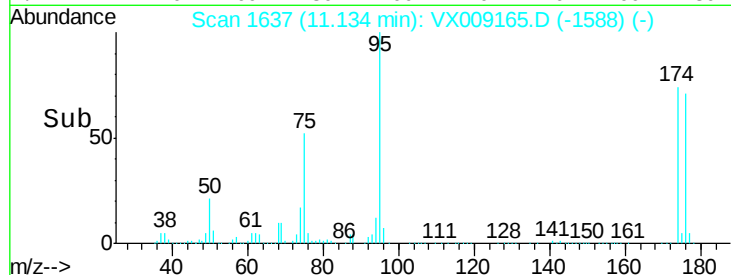
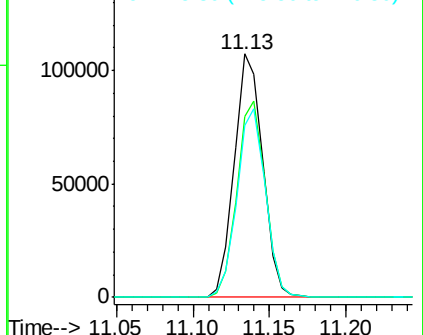
176 77.4 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

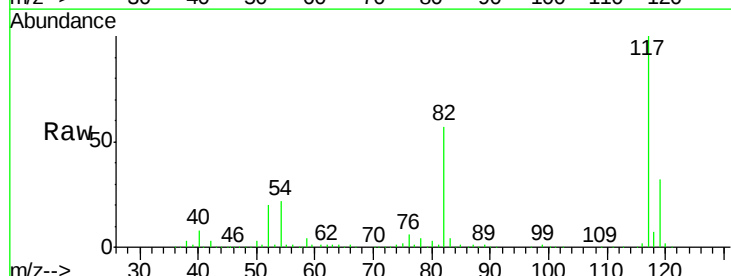
Tgt Ion: 117 Resp: 293666

Ion Ratio Lower Upper

117 100

82 57.1 48.2 72.4

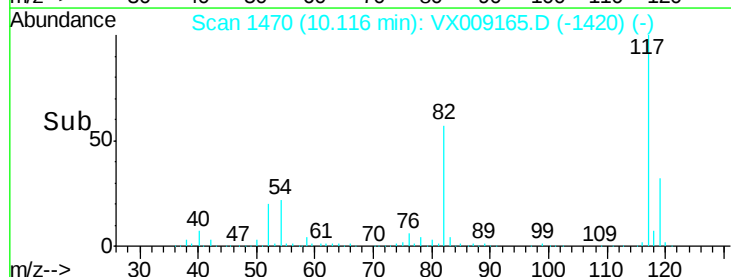
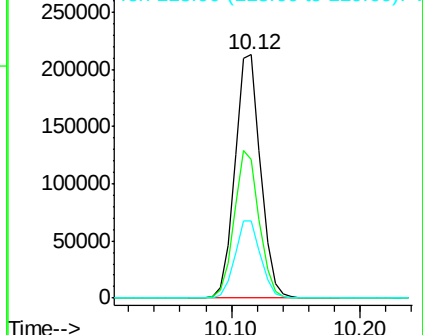
119 31.9 25.0 37.6

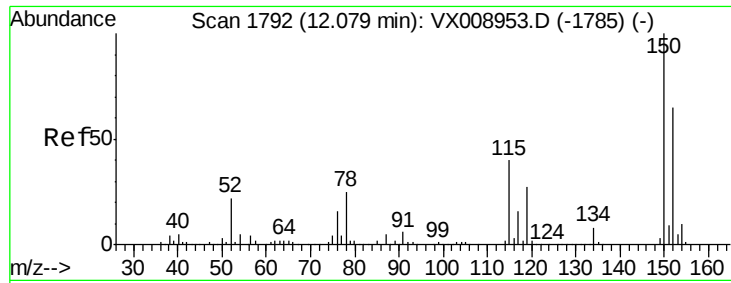


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)



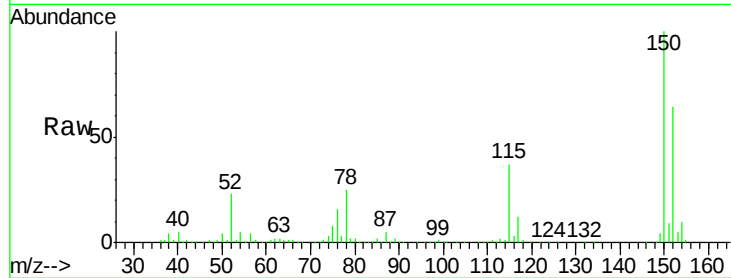


#72

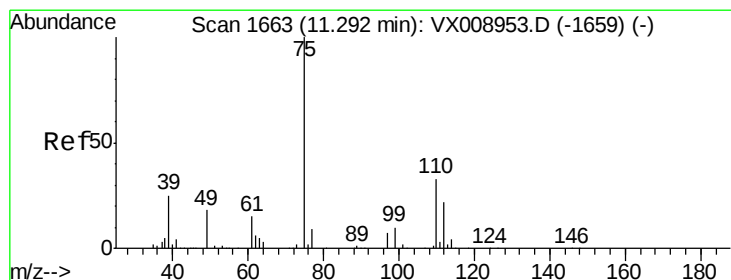
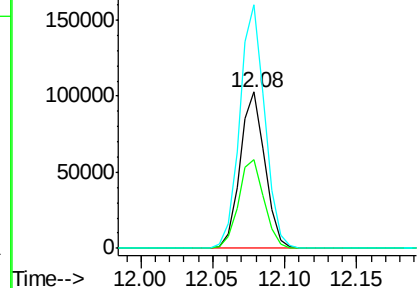
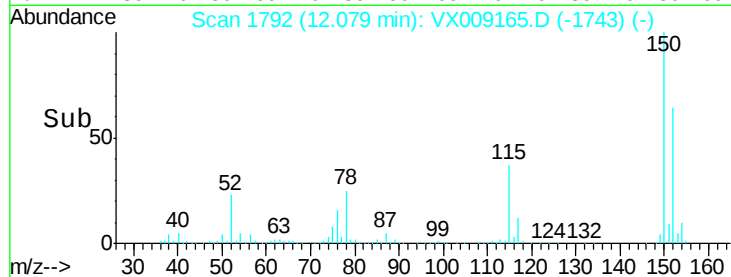
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009165.D
Acq: 25 Apr 2019 16:19

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 123657
Ion Ratio Lower Upper
152 100
115 58.8 41.4 124.2
150 157.2 0.0 349.8



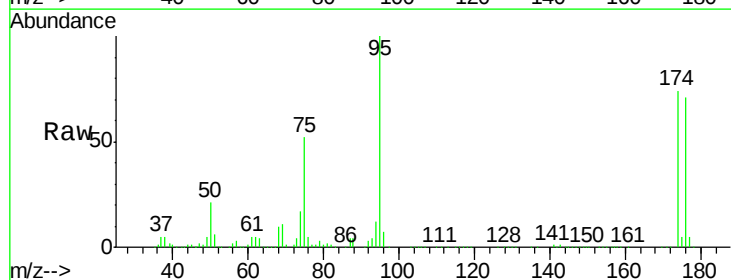
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



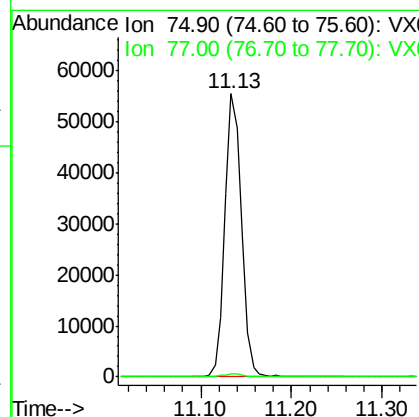
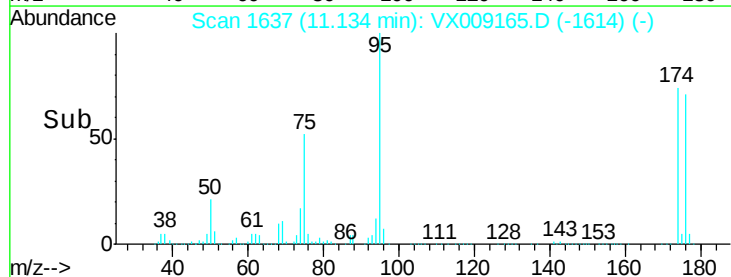
#76

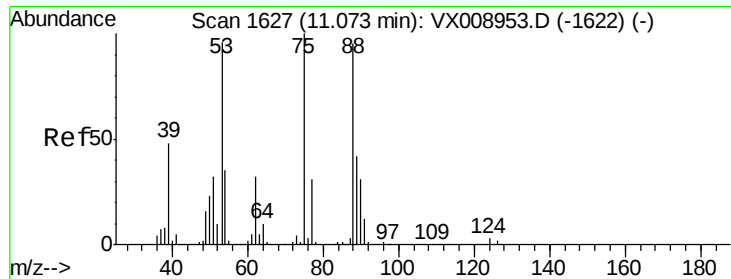
1,2,3-Trichloropropane
Concen: 23.597 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX009165.D
Acq: 25 Apr 2019 16:19

Tgt Ion: 75 Resp: 71251
Ion Ratio Lower Upper
75 100
77 1.3 22.7 68.0#



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: 60.581 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009165.D

Acq: 25 Apr 2019 16:19

Instrument :

MSVOA_X

ClientSampleId :

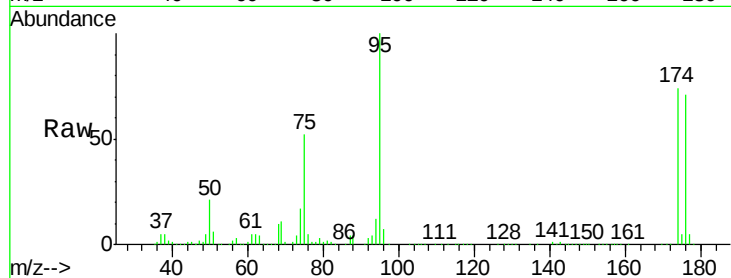
Tot Ion: 75 Resp: 71251

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#



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

