

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042219\
 Data File : VX009087.D
 Acq On : 22 Apr 2019 11:19
 Operator : JC/SP
 Sample : K2487-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB

Quant Time: Apr 23 02:31:29 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	5.67	168	250534	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	406946	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	352354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152123	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	164937	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
35) Dibromofluoromethane	5.50	113	123415	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	8.71	98	503784	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
62) 4-Bromofluorobenzene	11.13	95	169592	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

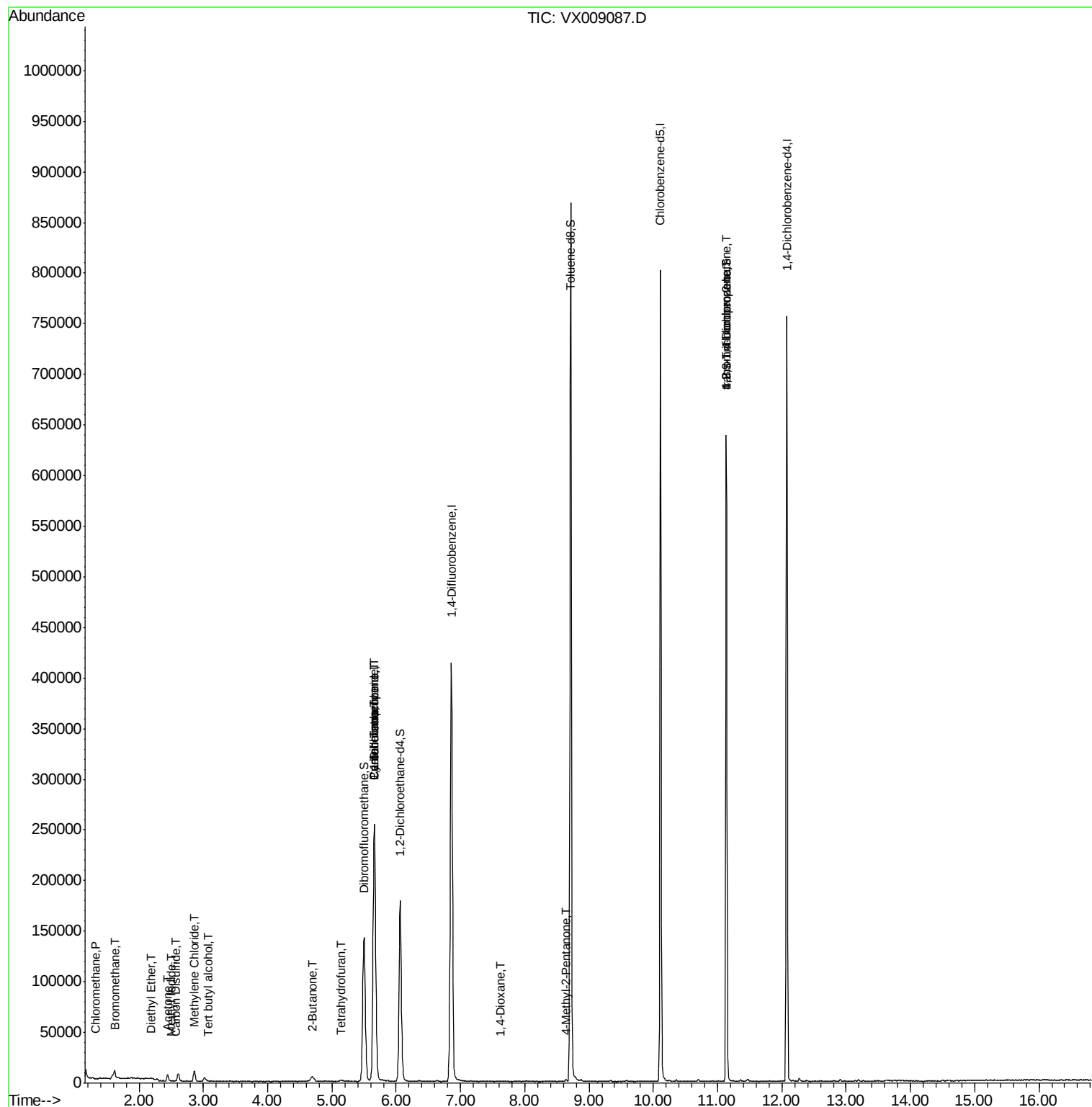
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	743	0.210	ug/l #	74
5) Bromomethane	1.64	94	478	4.053	ug/l #	17
8) Diethyl Ether	2.18	74	538	0.292	ug/l	72
10) Methyl Iodide	2.51	142	105	4.449	ug/l #	77
11) Tert butyl alcohol	3.08	59	186	0.237	ug/l #	1
16) Acetone	2.44	43	6669	3.642	ug/l	93
17) Carbon Disulfide	2.57	76	678	1.336	ug/l #	65
20) Methylene Chloride	2.86	84	4765	1.522	ug/l	98
25) 2-Butanone	4.69	43	1930	0.659	ug/l #	91
28) Bromochloromethane	4.99	49	22	Below Cal	#	21
29) Tetrahydrofuran	5.15	42	722	0.369	ug/l #	63
31) Cyclohexane	5.66	56	5578	0.992	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	19694	4.679	ug/l #	51
38) Carbon Tetrachloride	5.66	117	23682	6.637	ug/l #	17
49) 1,4-Dioxane	7.63	88	22	0.273	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1310	0.236	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	85350	22.977	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	85350	58.989	ug/l #	10

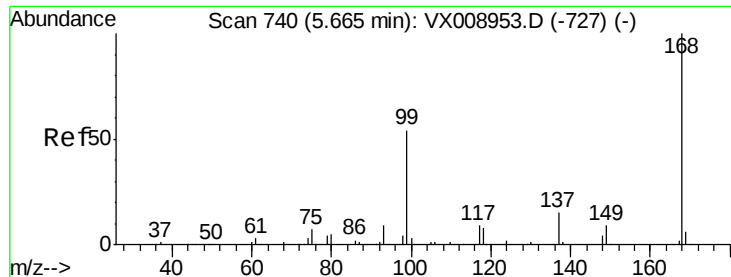
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampled :

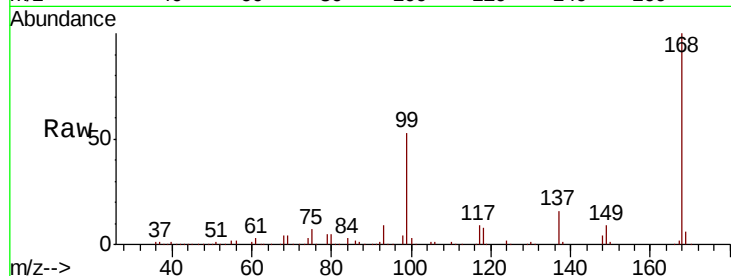
FB

Tot Ion:168 Resp: 250534

Ion Ratio Lower Upper

168 100

99 52.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

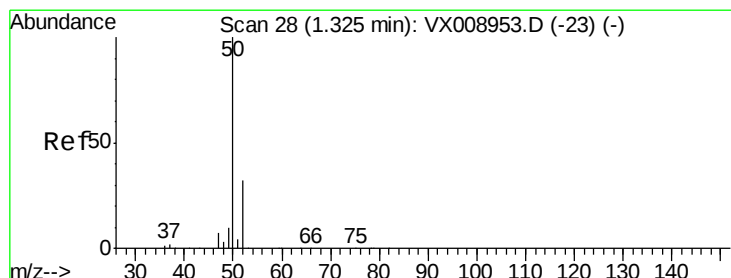
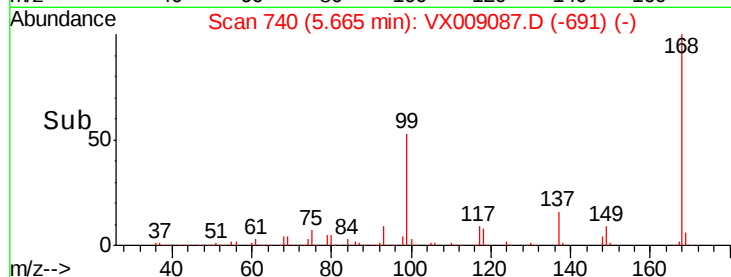
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.210 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX009087.D

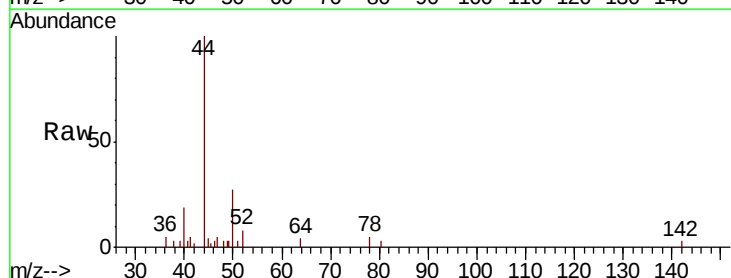
Acq: 22 Apr 2019 11:19

Tgt Ion: 50 Resp: 743

Ion Ratio Lower Upper

50 100

52 17.6 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

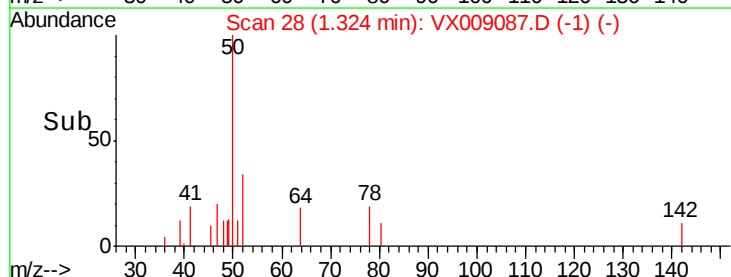
400

200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 4.053 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

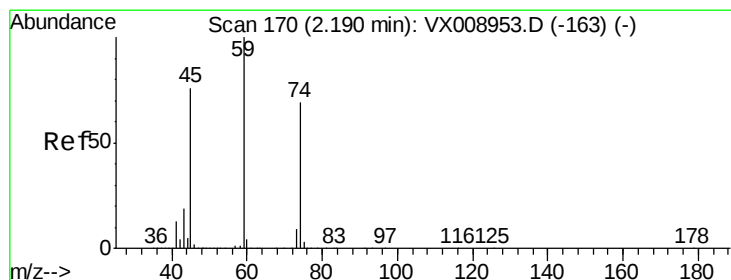
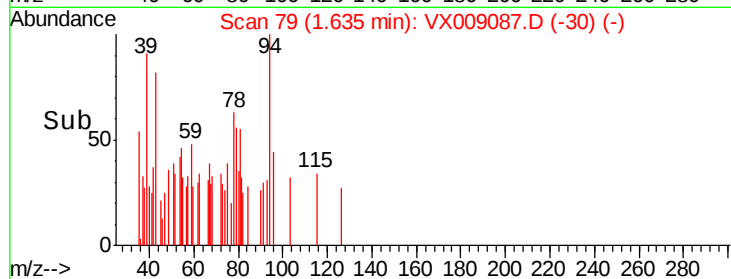
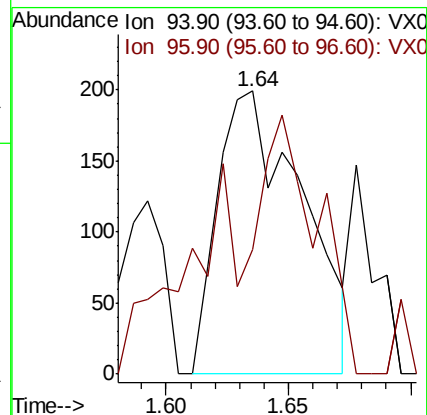
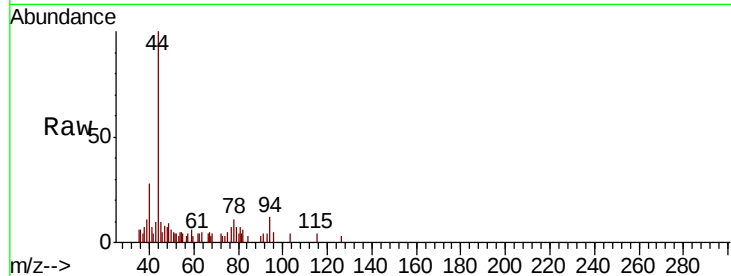
FB

Tot Ion: 94 Resp: 478

Ion Ratio Lower Upper

94 100

96 13.1 73.9 110.9#



#8

Diethyl Ether

Concen: 0.292 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX009087.D

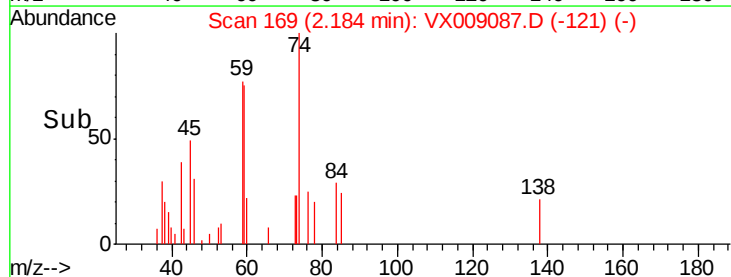
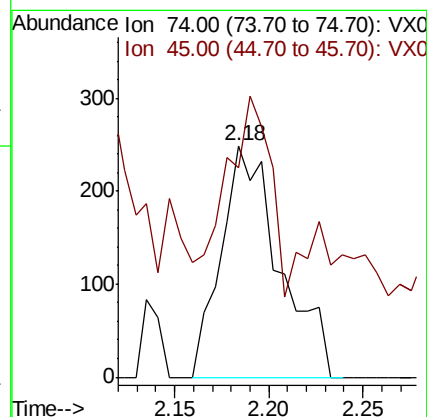
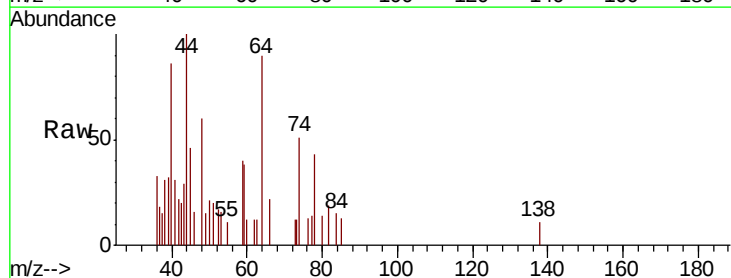
Acq: 22 Apr 2019 11:19

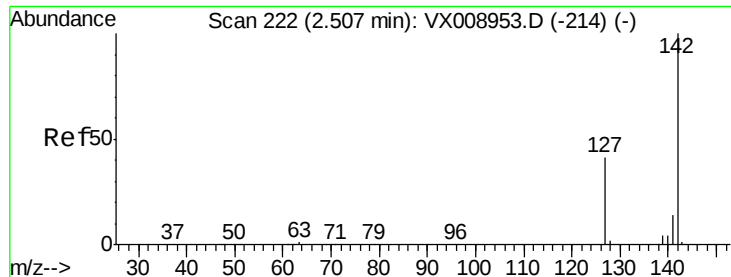
Tgt Ion: 74 Resp: 538

Ion Ratio Lower Upper

74 100

45 80.9 54.9 164.8

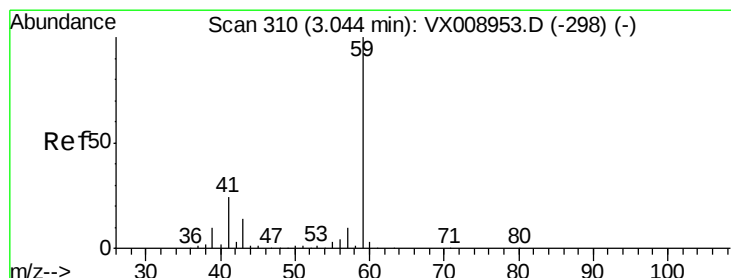
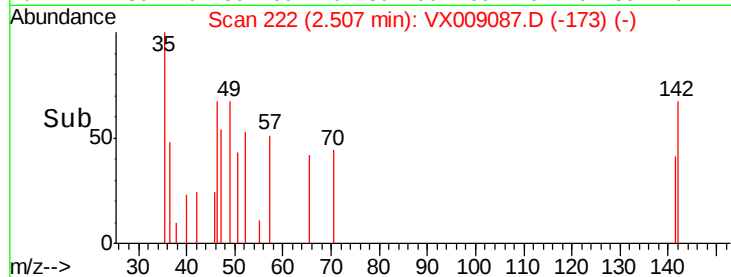
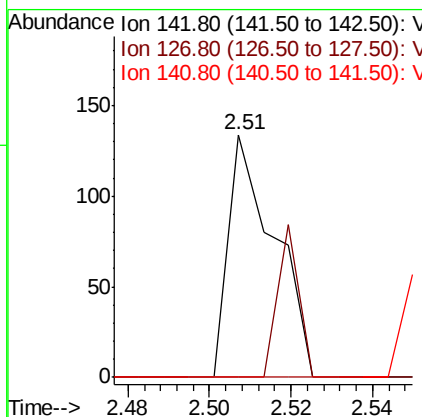
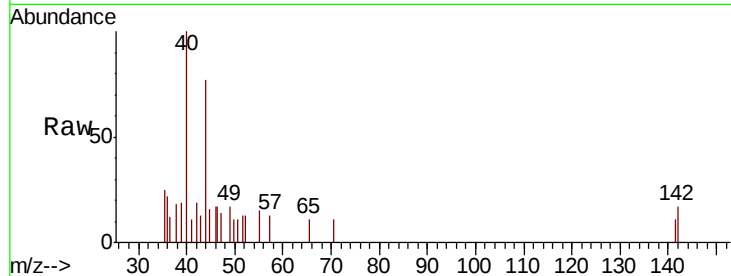




#10
Methvl Iodide
Concen: 4.449 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

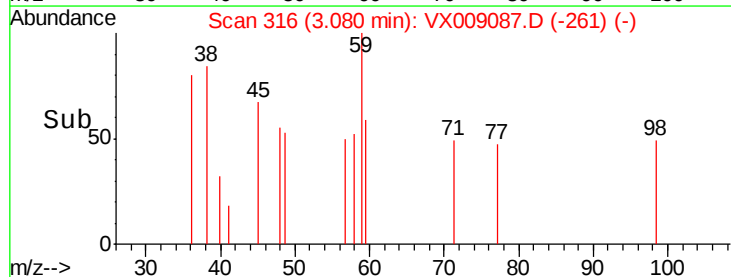
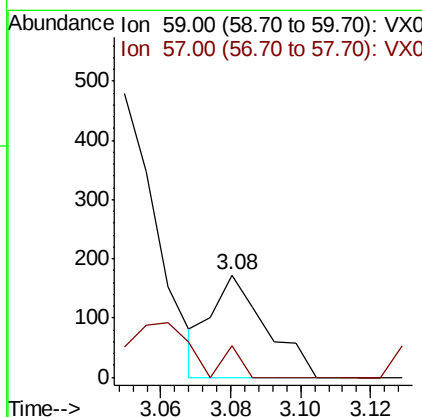
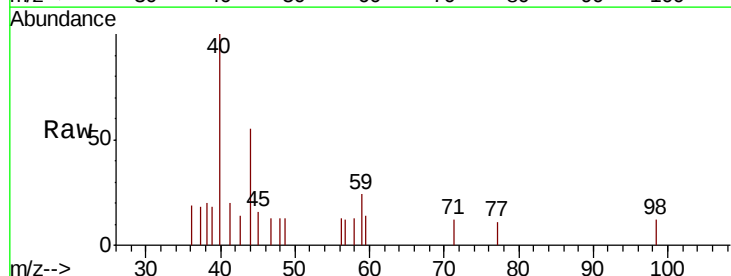
Instrument :
MSVOA_X
ClientSampled :
FB

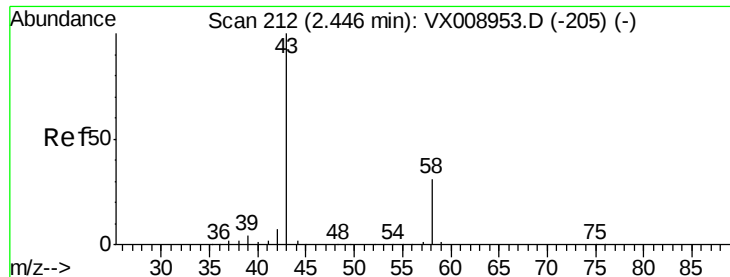
Tot Ion:142 Resp: 105
Ion Ratio Lower Upper
142 100
127 29.5 32.8 49.2#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.237 ug/l
RT: 3.08 min Scan# 316
Delta R.T. 0.04 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Tgt Ion: 59 Resp: 186
Ion Ratio Lower Upper
59 100
57 58.1 8.4 12.6#





#16

Acetone

Concen: 3.642 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampled :

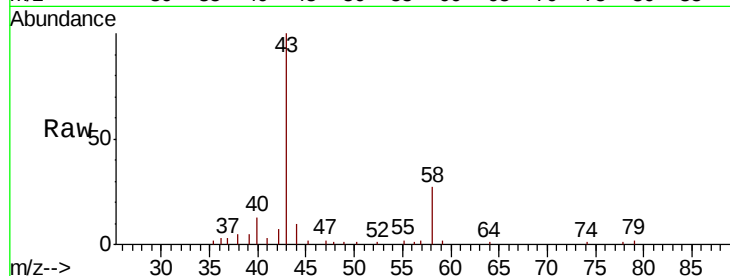
FB

Tot Ion: 43 Resp: 6669

Ion Ratio Lower Upper

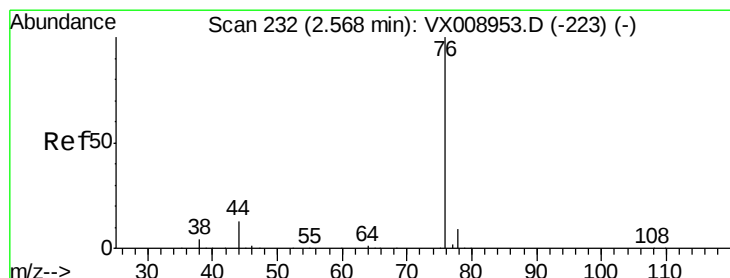
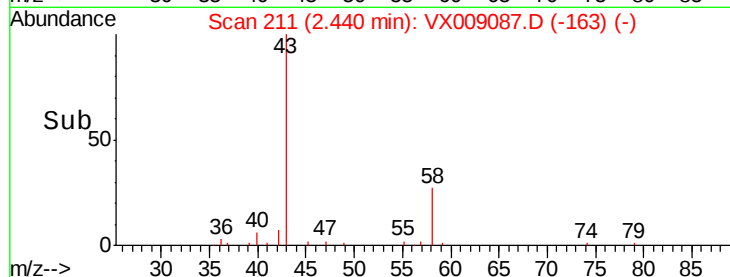
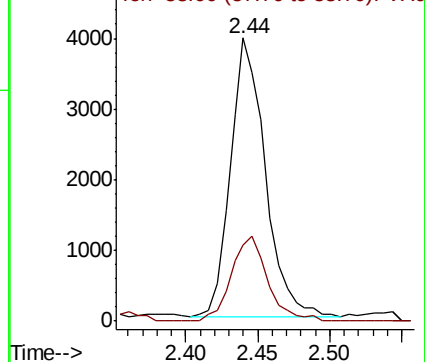
43 100

58 27.2 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: 1.336 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009087.D

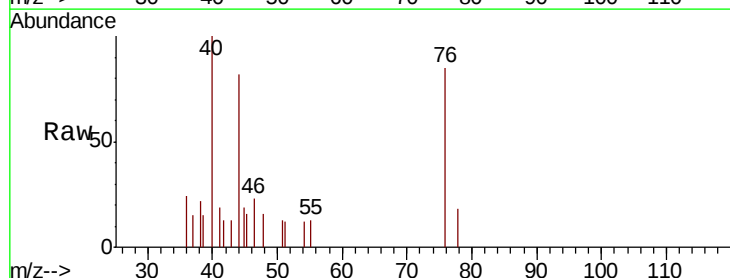
Acq: 22 Apr 2019 11:19

Tgt Ion: 76 Resp: 678

Ion Ratio Lower Upper

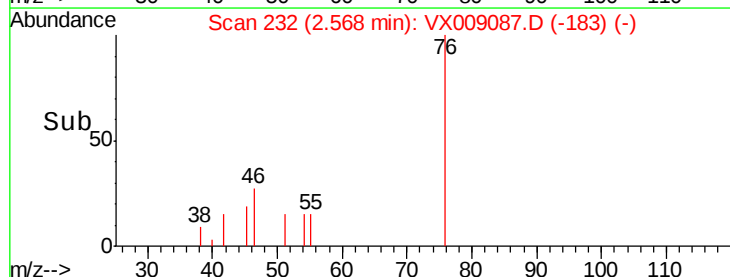
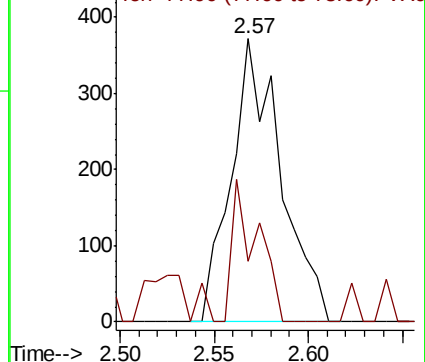
76 100

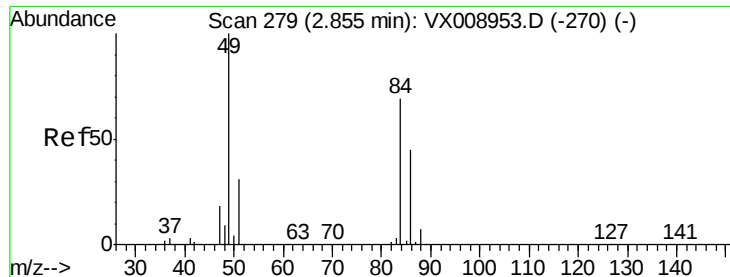
78 21.5 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

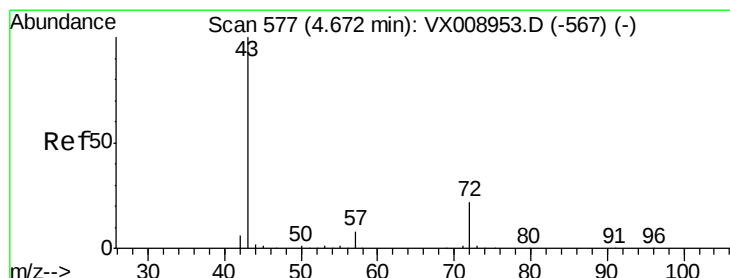
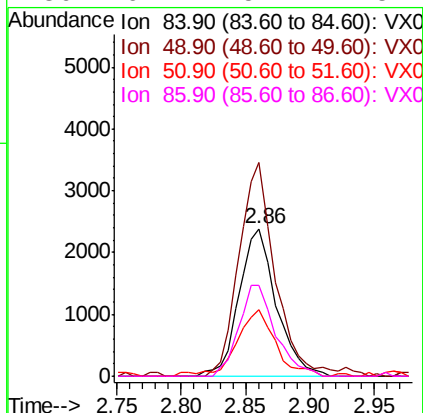
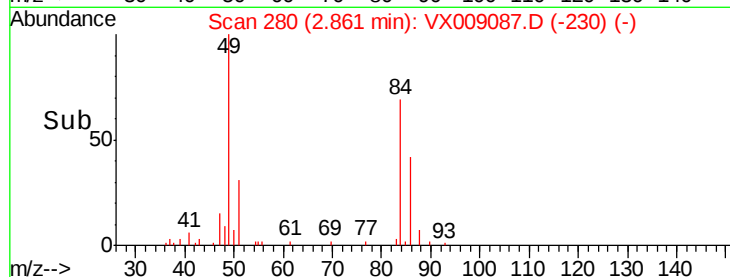
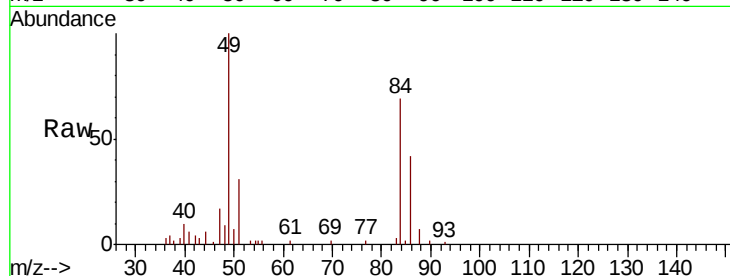




#20
Methvlene Chloride
Concen: 1.522 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

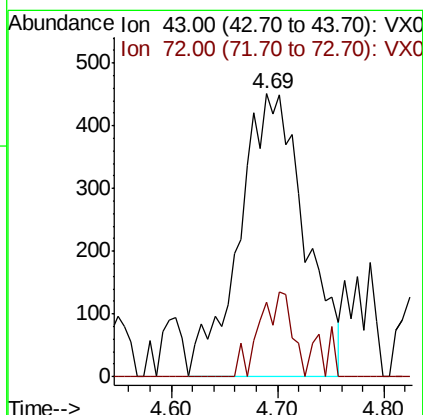
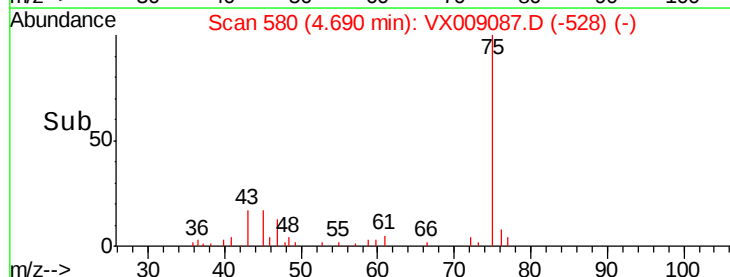
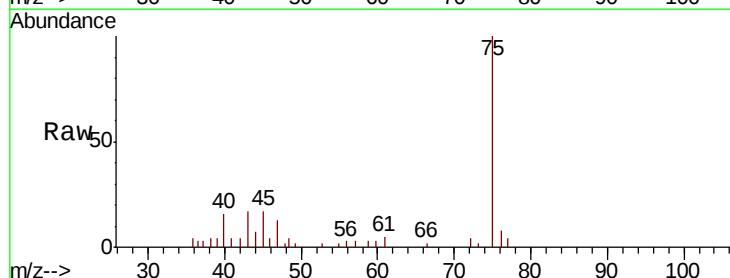
Instrument :
MSVOA_X
ClientSampled :
FB

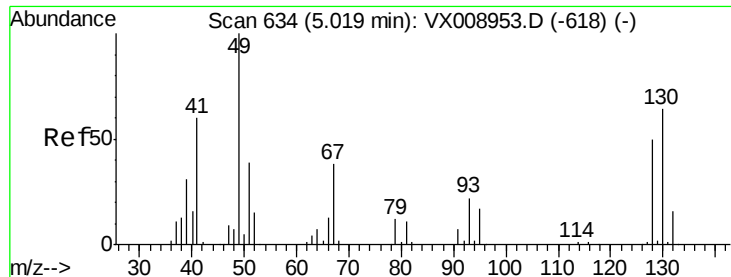
Tot Ion: 84 Resp: 4765
Ion Ratio Lower Upper
84 100
49 145.0 115.4 173.0
51 43.4 35.8 53.6
86 61.4 52.1 78.1



#25
2-Butanone
Concen: 0.659 ug/l
RT: 4.69 min Scan# 580
Delta R.T. 0.02 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Tgt Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
72 26.4 17.5 26.3#





#28

Bromochloromethane

Concen: Below Cal

RT: 4.99 min Scan# 630

Delta R.T. -0.02 min

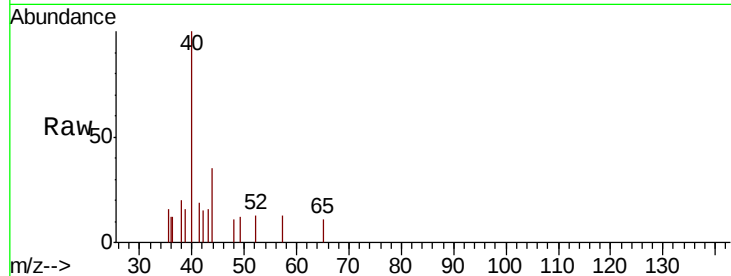
Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
FB

Tot Ion: 49 Resp: 22

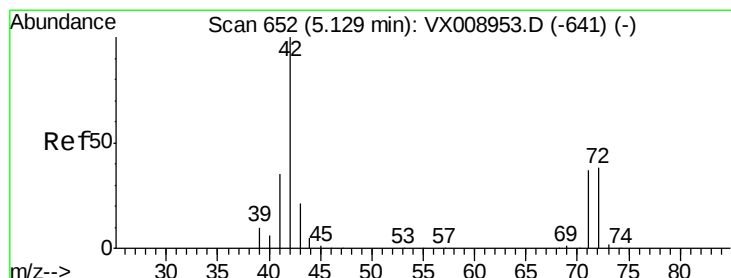
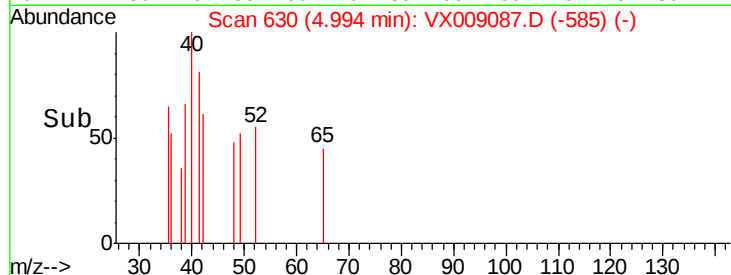
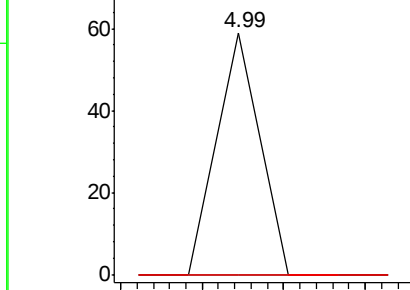
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#



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: 0.369 ug/l

RT: 5.15 min Scan# 655

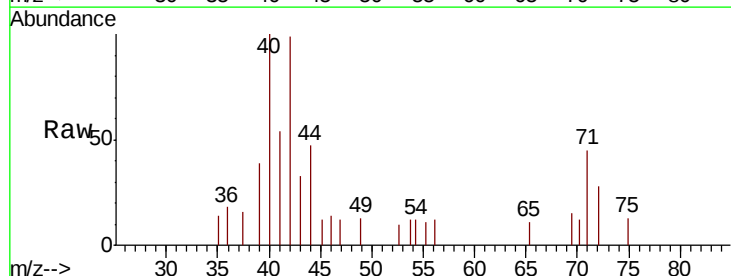
Delta R.T. 0.02 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Tgt Ion: 42 Resp: 722

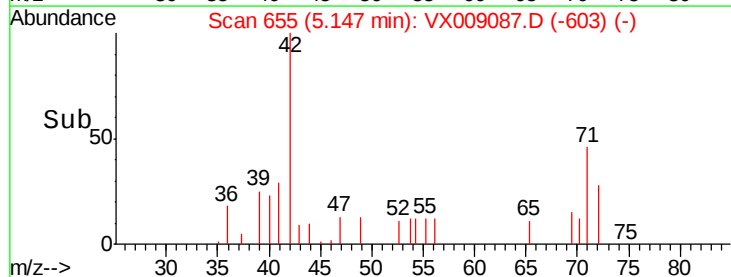
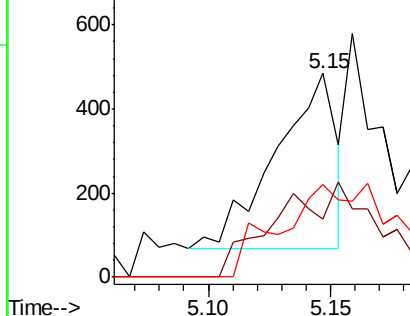
Ion	Ratio	Lower	Upper
42	100		
72	46.5	30.6	45.8#
71	0.0	28.8	43.2#

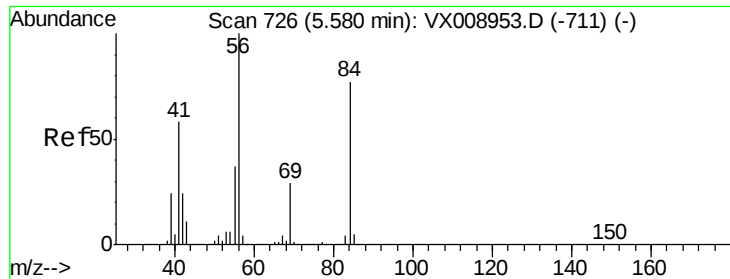


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

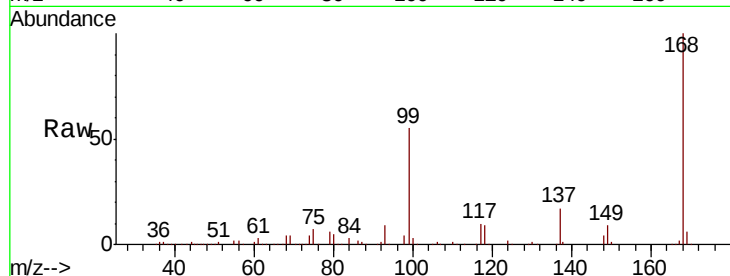




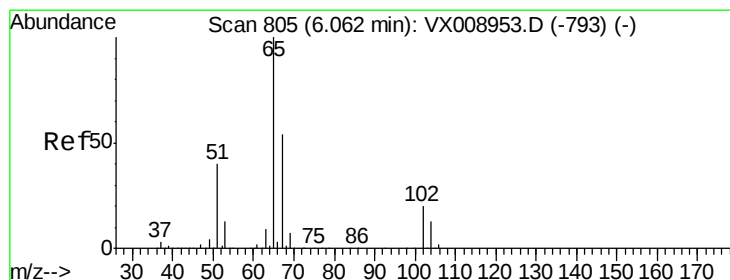
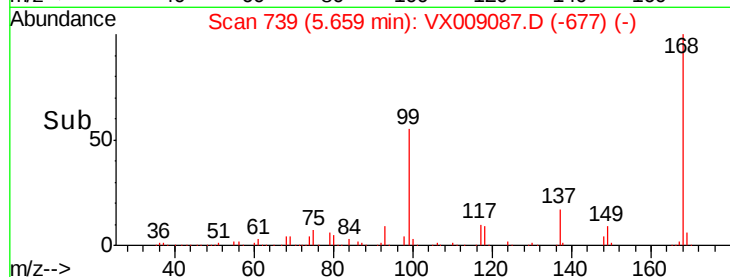
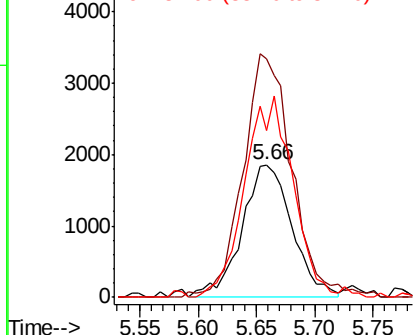
#31
Cyclohexane
Concen: 0.992 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
FB

Tot Ion: 56 Resp: 5578
Ion Ratio Lower Upper
56 100
69 176.3 23.3 34.9#
84 125.8 61.7 92.5#

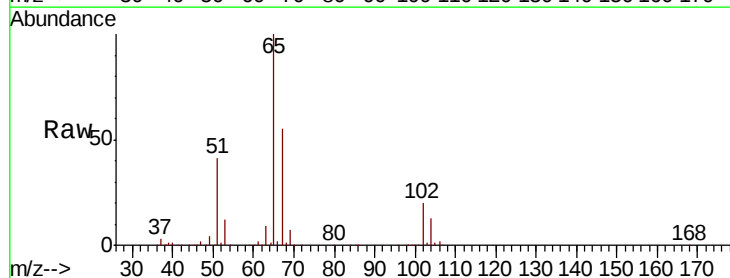


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

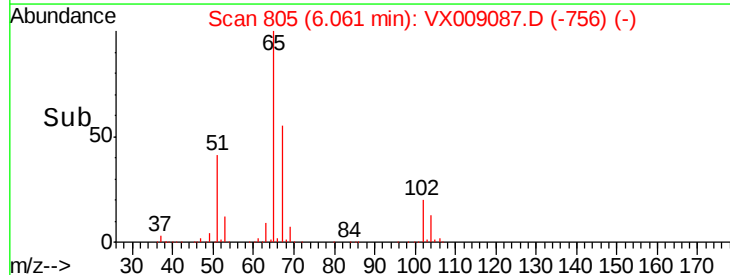
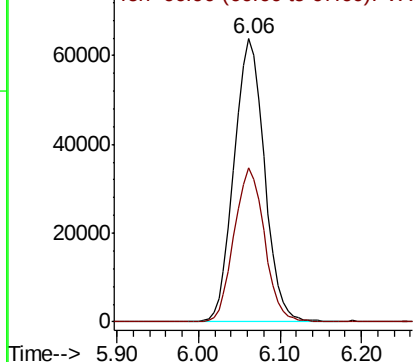


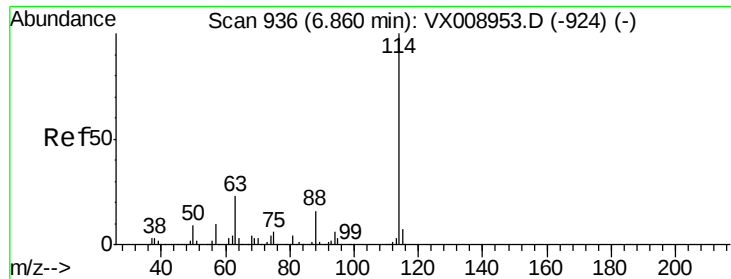
#33
1,2-Dichloroethane-d4
Concen: 46.715 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Tgt Ion: 65 Resp: 164937
Ion Ratio Lower Upper
65 100
67 54.3 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: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

FB

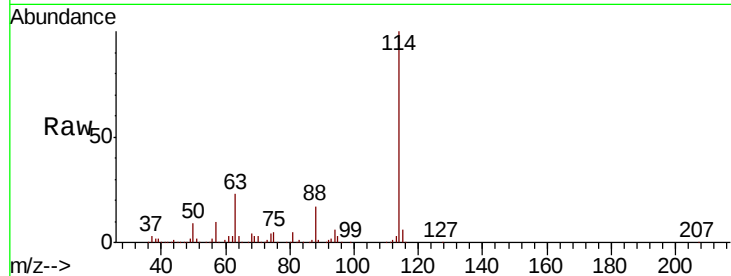
Tot Ion:114 Resp: 406946

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.0

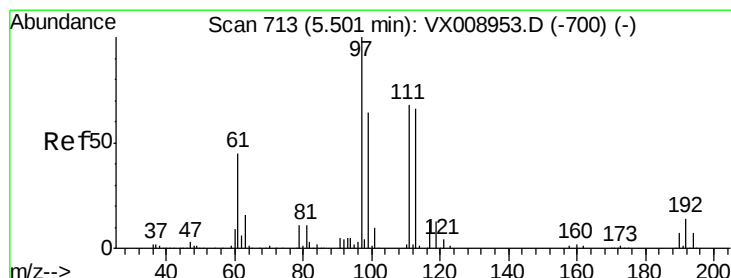
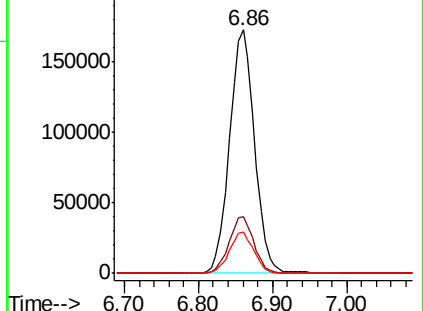
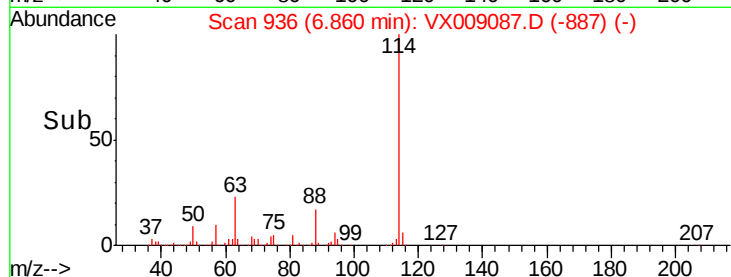
88 16.8 0.0 32.6



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: 47.255 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

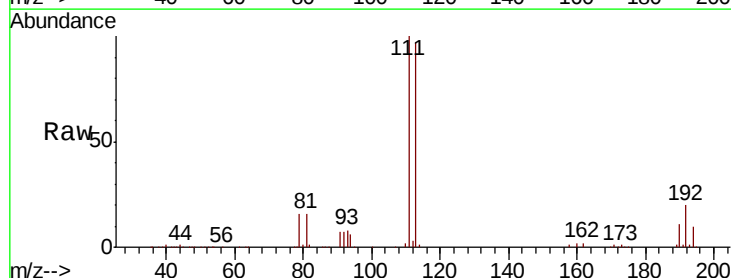
Tgt Ion:113 Resp: 123415

Ion Ratio Lower Upper

113 100

111 102.9 82.9 124.3

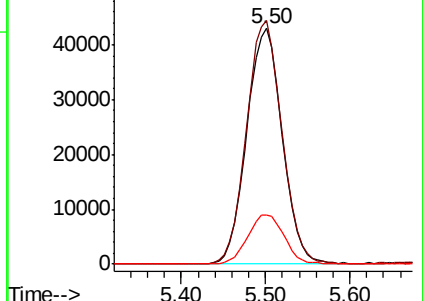
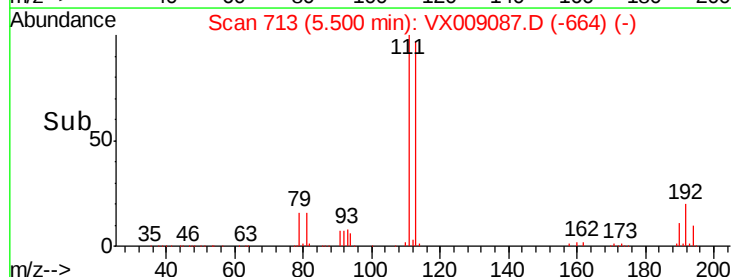
192 21.4 17.4 26.0

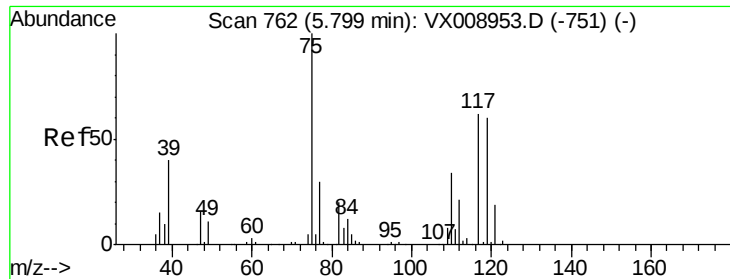


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.679 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

FB

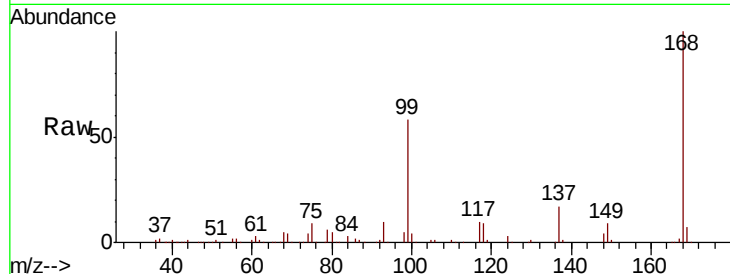
Tot Ion: 75 Resp: 19694

Ion Ratio Lower Upper

75 100

110 10.0 16.9 50.7#

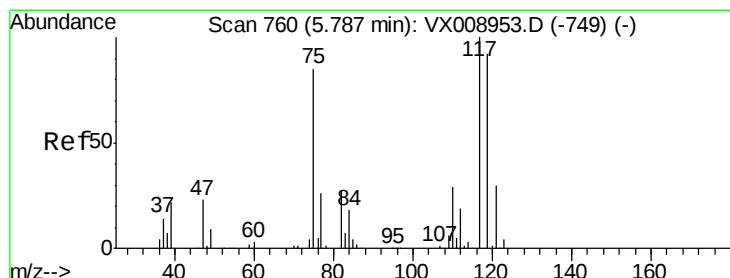
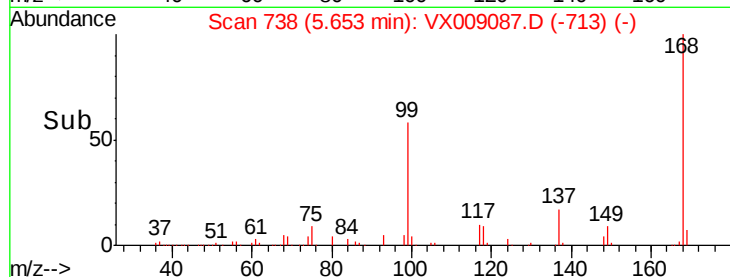
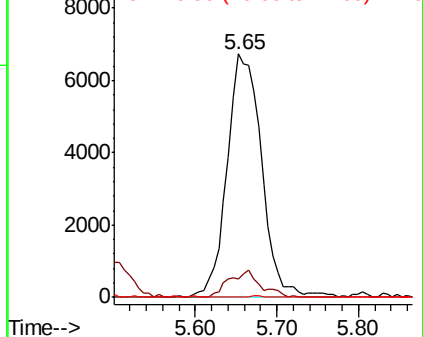
77 0.2 25.0 37.4#



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: 6.637 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

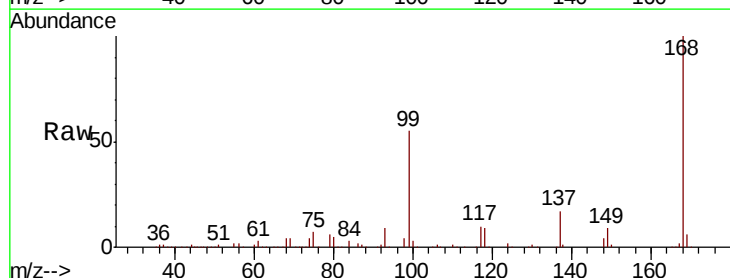
Tgt Ion: 117 Resp: 23682

Ion Ratio Lower Upper

117 100

119 4.0 73.8 110.8#

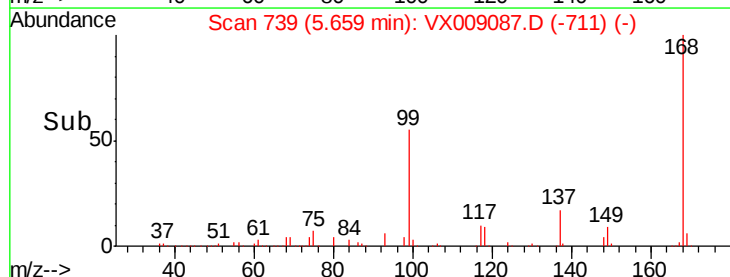
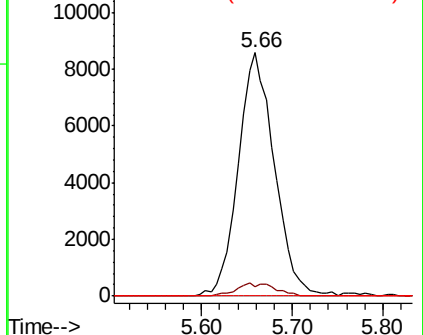
121 0.0 23.6 35.4#

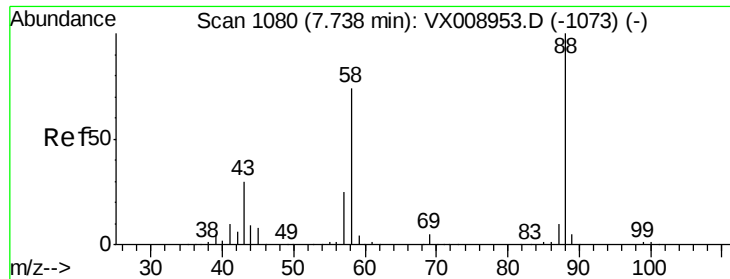


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

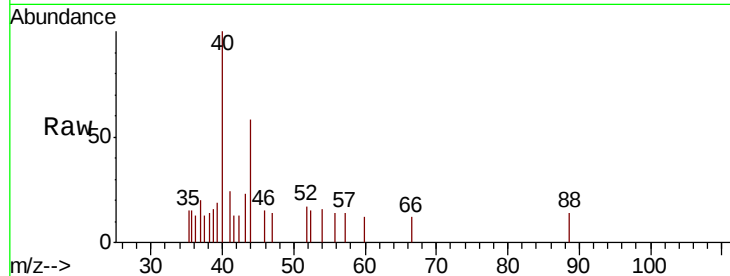




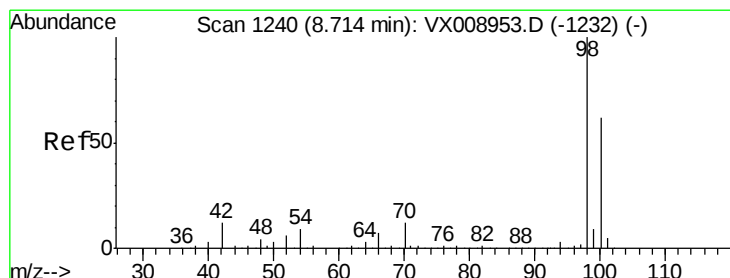
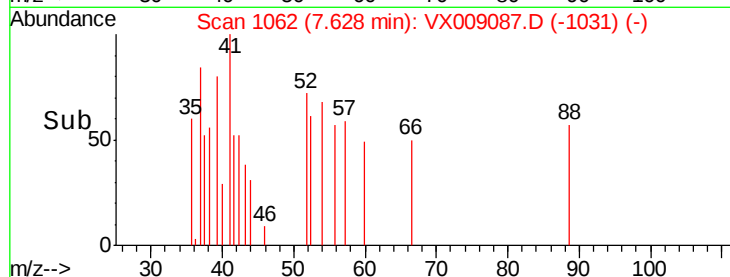
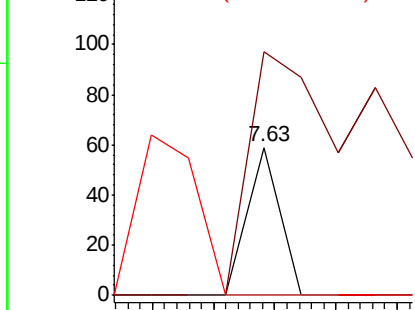
#49
1,4-Dioxane
Concen: 0.273 ug/l
RT: 7.63 min Scan# 1062
Delta R.T. -0.11 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Instrument :
MSVOA_X
ClientSampled :
FB

Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 631.8 29.3 43.9#
58 200.0 62.6 93.8#

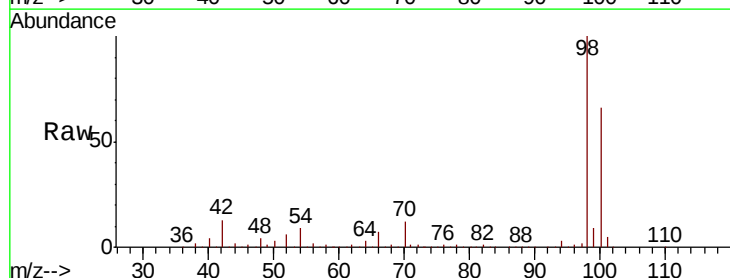


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

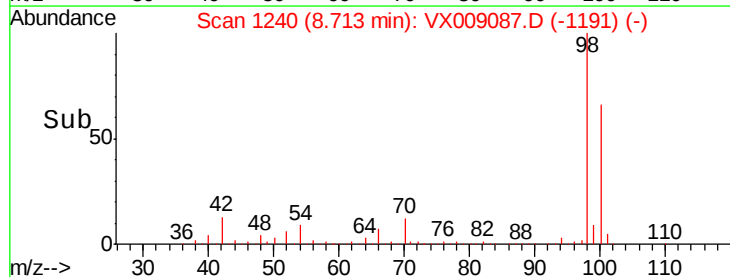
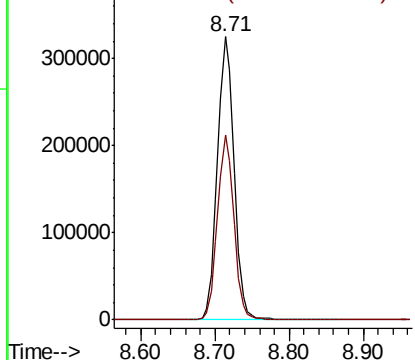


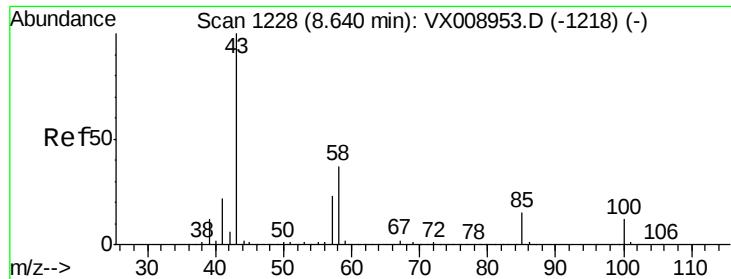
#50
Toluene-d8
Concen: 48.369 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Tgt Ion: 98 Resp: 503784
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.236 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

Instrument :

MSVOA_X

ClientSampled :

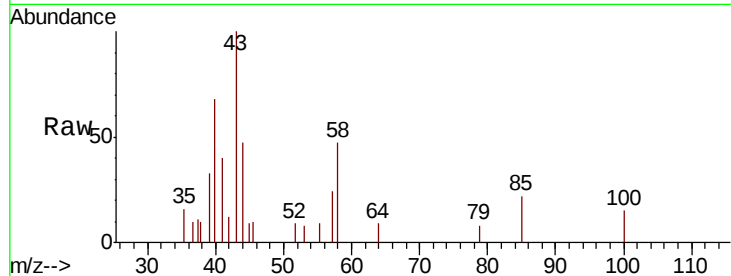
FB

Tot Ion: 43 Resp: 1310

Ion Ratio Lower Upper

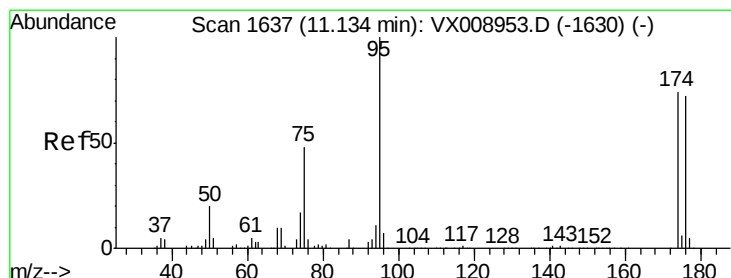
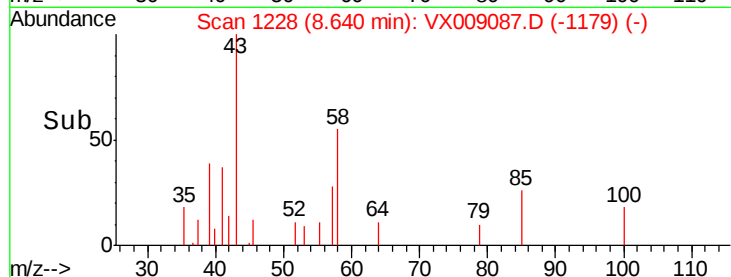
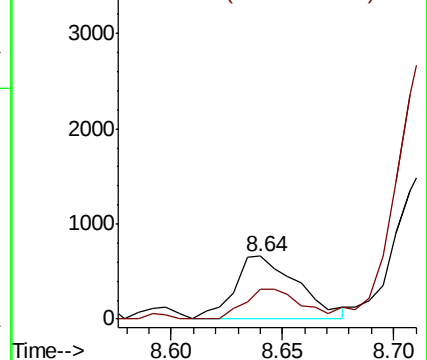
43 100

58 42.0 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.126 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009087.D

Acq: 22 Apr 2019 11:19

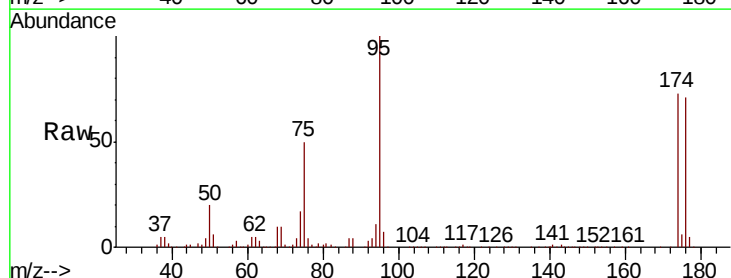
Tgt Ion: 95 Resp: 169592

Ion Ratio Lower Upper

95 100

174 78.5 0.0 159.6

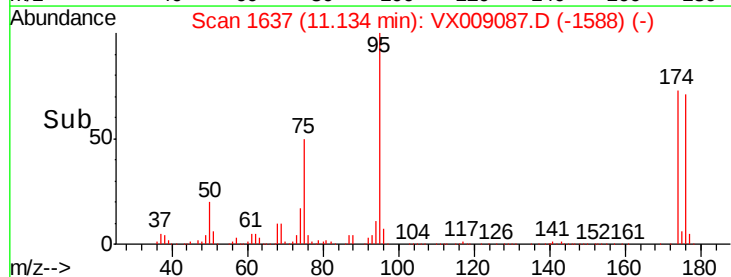
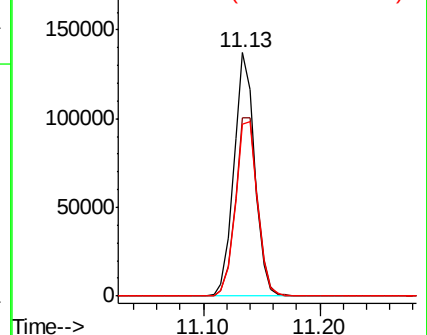
176 76.5 0.0 154.8

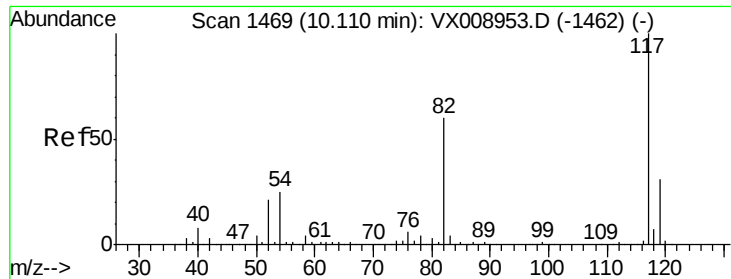


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

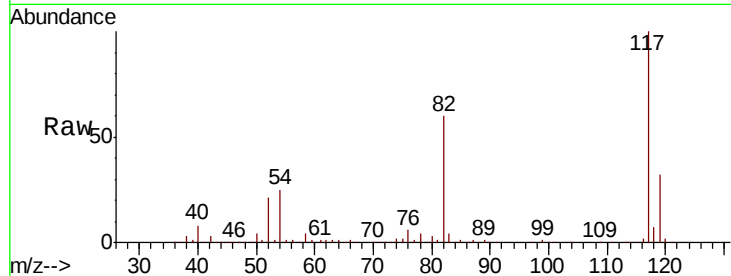




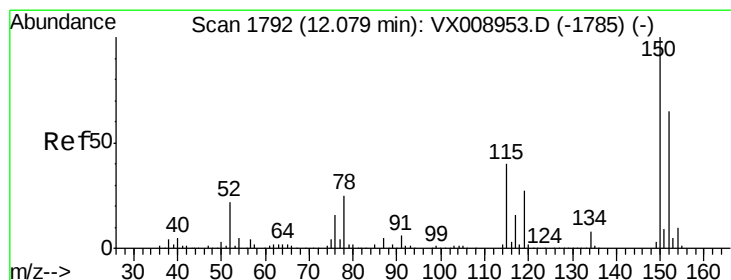
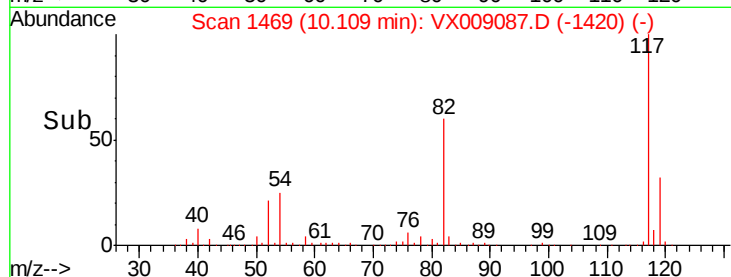
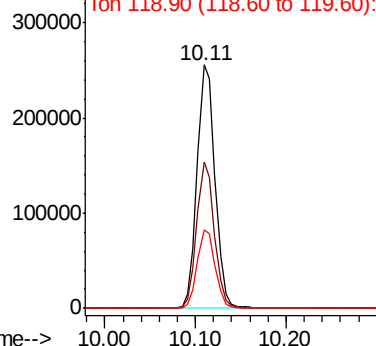
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
FB

Tot Ion:117 Resp: 352354
Ion Ratio Lower Upper
117 100
82 60.4 48.2 72.4
119 32.0 25.0 37.6

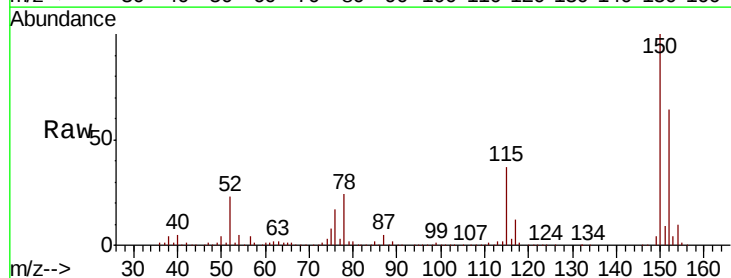


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

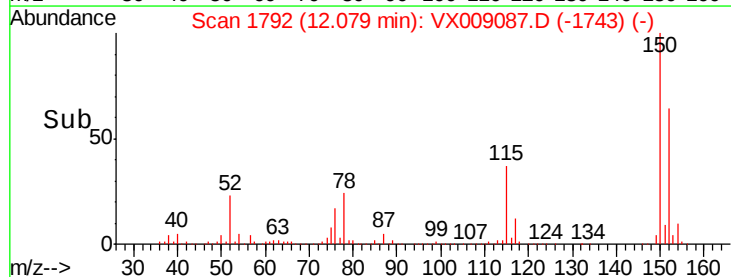
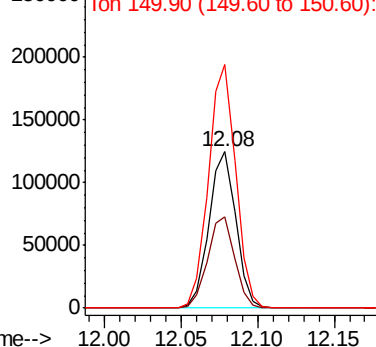


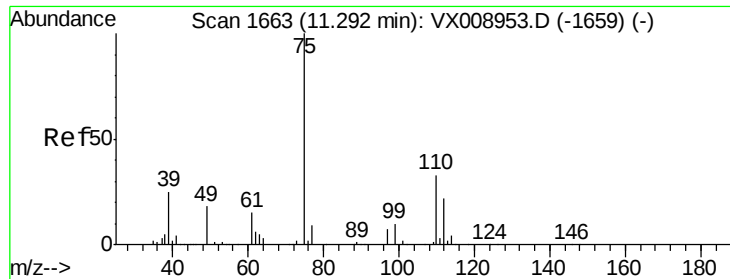
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009087.D
Acq: 22 Apr 2019 11:19

Tgt Ion:152 Resp: 152123
Ion Ratio Lower Upper
152 100
115 58.9 41.4 124.2
150 157.0 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

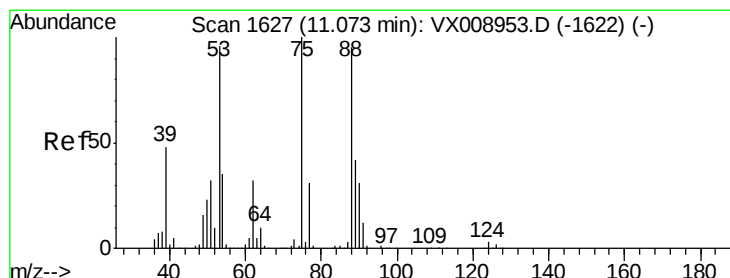
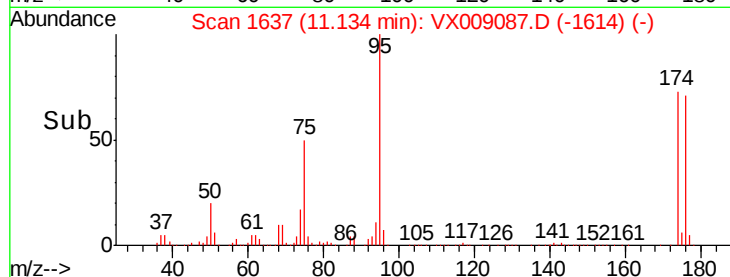
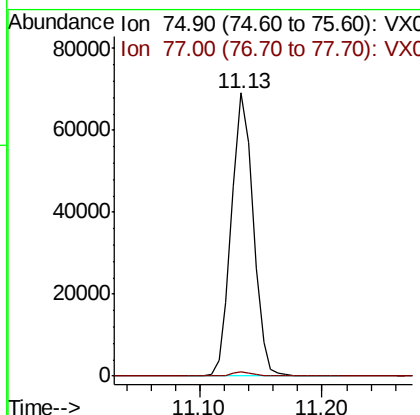
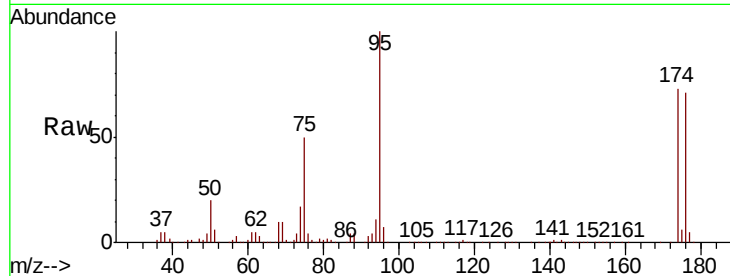




#76
 1,2,3-Trichloropropane
 Concen: 22.977 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009087.D
 Acq: 22 Apr 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 FB

Tot Ion: 75 Resp: 85350
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.989 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009087.D
 Acq: 22 Apr 2019 11:19

Tgt Ion: 75 Resp: 85350
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.4#
 89 0.0 36.0 54.0#

