

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090519\
 Data File : VX012124.D
 Acq On : 06 Sep 2019 03:20
 Operator : SY/SP
 Sample : K4618-06
 Misc : 4.00g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-18-20

Quant Time: Sep 06 05:48:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	129017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	224205	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	179514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	66097	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	90437	50.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.60%	
35) Dibromofluoromethane	5.48	113	66052	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	
50) Toluene-d8	8.71	98	257380	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.13	95	90412	38.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.84%	

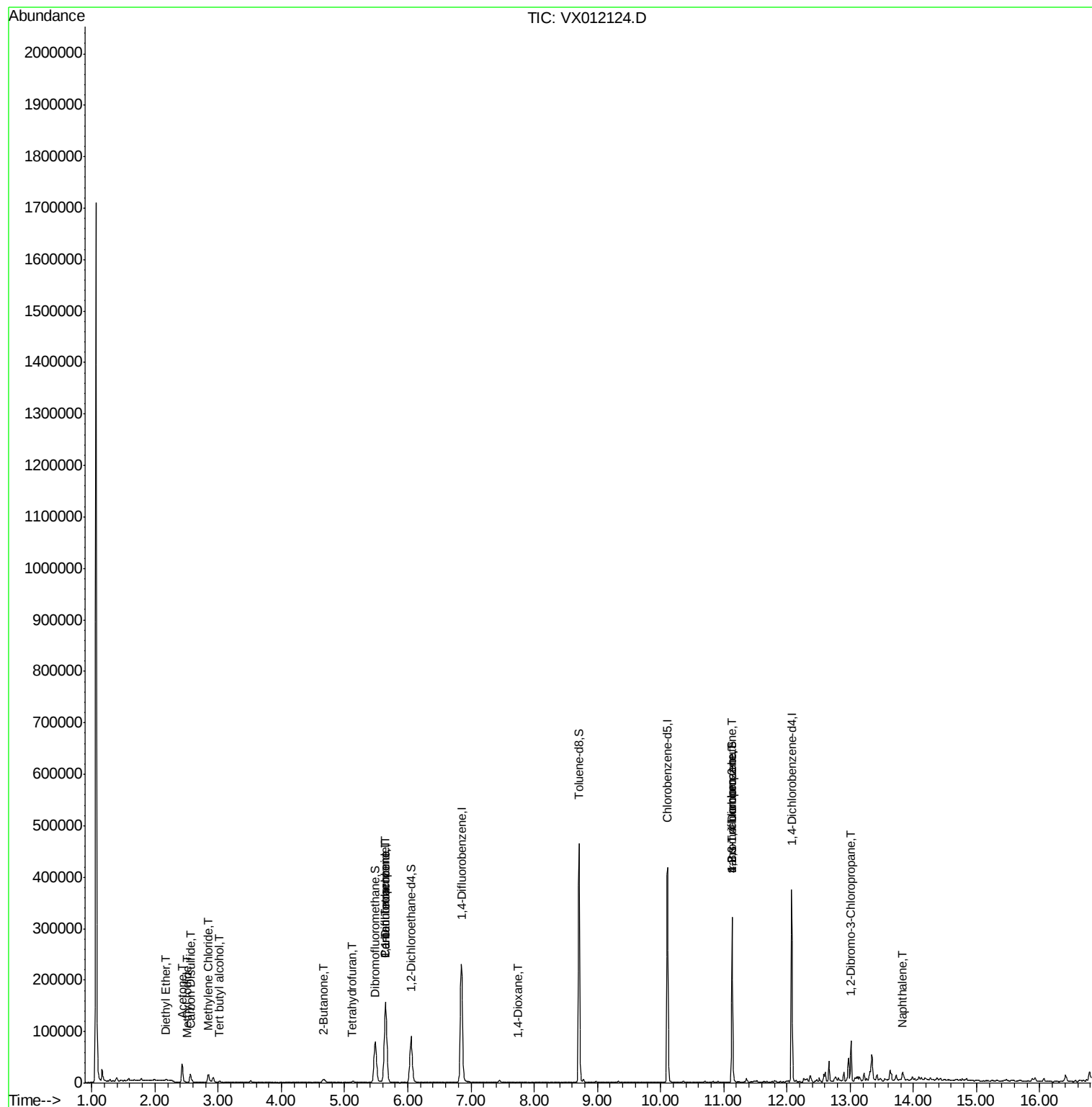
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	917	1.490	ug/l	89
10) Methyl Iodide	2.51	142	230	7.136	ug/l #	40
11) Tert butyl alcohol	3.02	59	2672	15.627	ug/l #	82
13) Acrolein	2.27	56	261	Below Cal	#	56
16) Acetone	2.43	43	39062	91.802	ug/l	98
17) Carbon Disulfide	2.56	76	21334	5.746	ug/l	95
20) Methylene Chloride	2.84	84	7031	4.115	ug/l #	81
25) 2-Butanone	4.67	43	6078	11.222	ug/l #	78
29) Tetrahydrofuran	5.13	42	1973	6.046	ug/l	91
36) 1,1-Dichloropropene	5.65	75	12069	6.112	ug/l #	49
38) Carbon Tetrachloride	5.65	117	15141	7.277	ug/l #	15
49) 1,4-Dioxane	7.75	88	70	4.677	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	48271	59.771	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	48271	141.307	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	13.01	75	412	1.947	ug/l #	1
95) Naphthalene	13.83	128	8435	2.797	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampled :

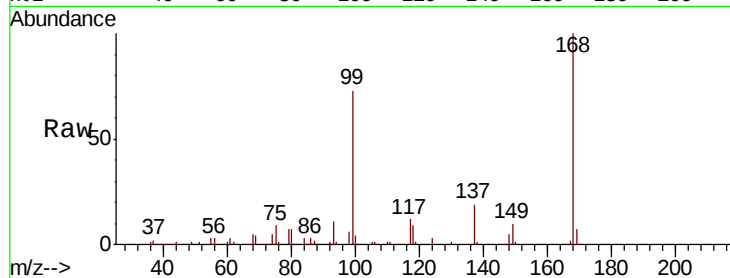
SB-4-18-20

Tgt Ion:168 Resp: 129017

Ion Ratio Lower Upper

168 100

99 73.3 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

40000

30000

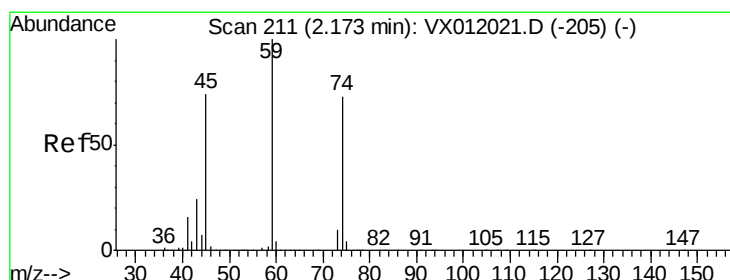
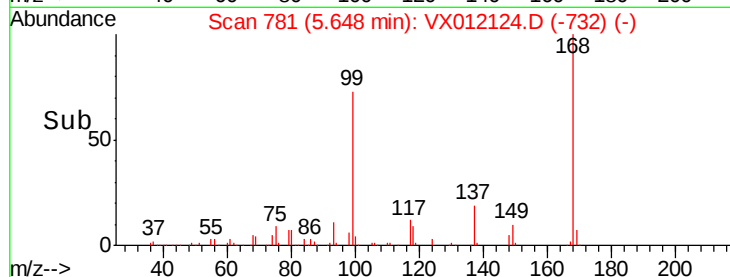
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 1.490 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012124.D

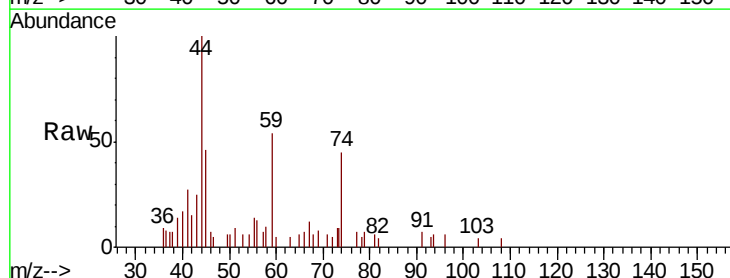
Acq: 06 Sep 2019 03:20

Tgt Ion: 74 Resp: 917

Ion Ratio Lower Upper

74 100

45 81.4 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

600

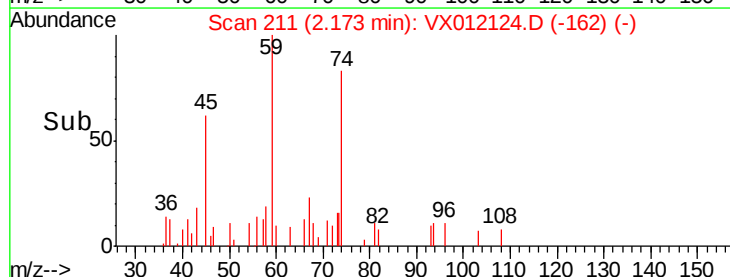
400

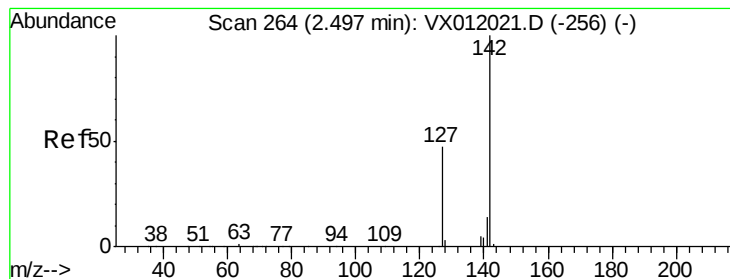
200

0

Time-->

2.15 2.20 2.25





#10

Methyl Iodide

Concen: 7.136 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampled :

SB-4-18-20

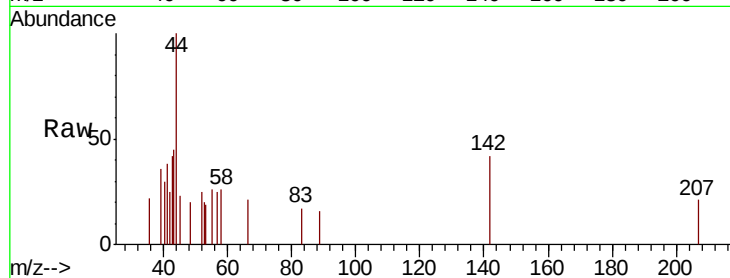
Tgt Ion: 142 Resp: 230

Ion Ratio Lower Upper

142 100

127 0.0 35.4 53.2#

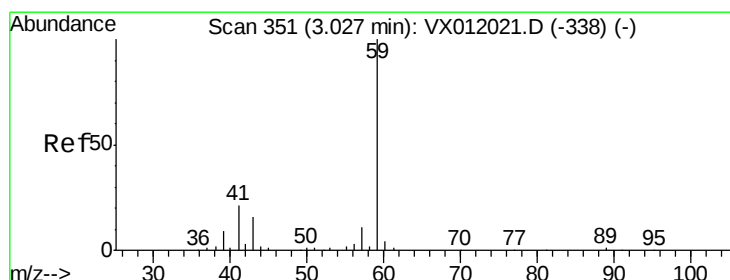
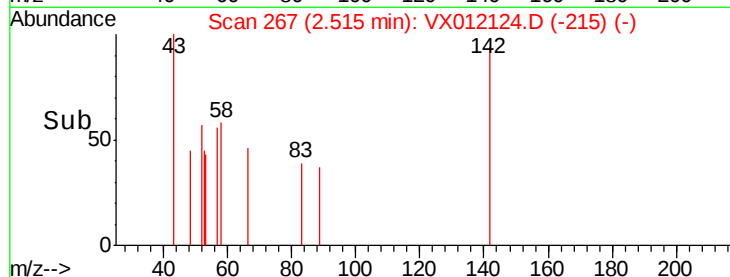
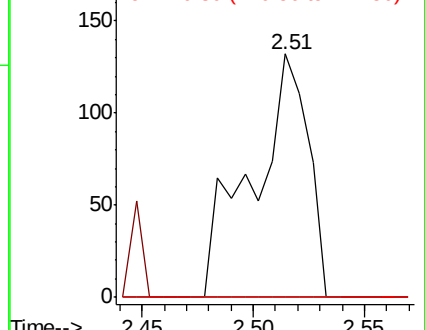
141 0.0 11.4 17.2#



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: 15.627 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX012124.D

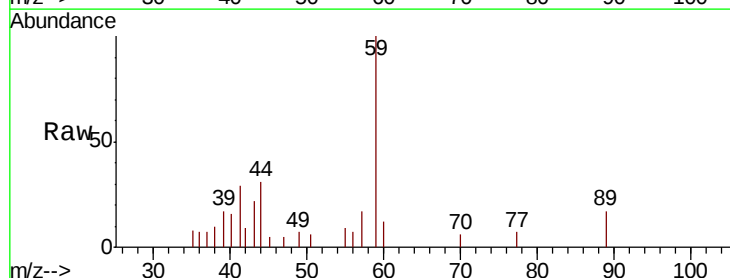
Acq: 06 Sep 2019 03:20

Tgt Ion: 59 Resp: 2672

Ion Ratio Lower Upper

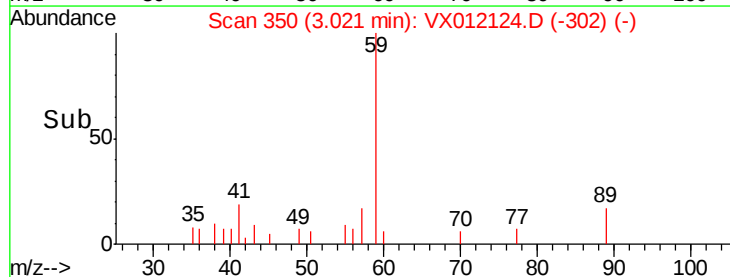
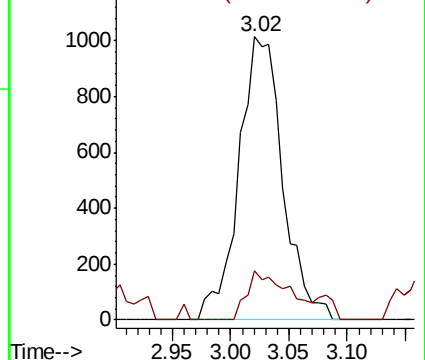
59 100

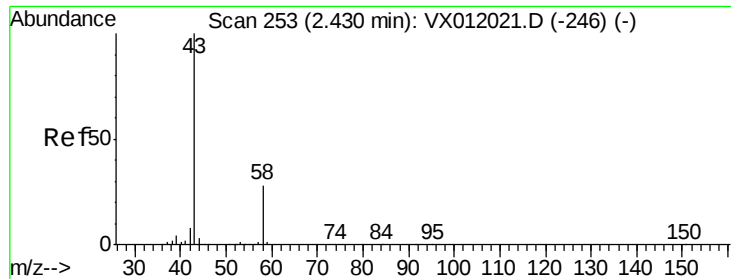
57 16.4 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 91.802 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampled :

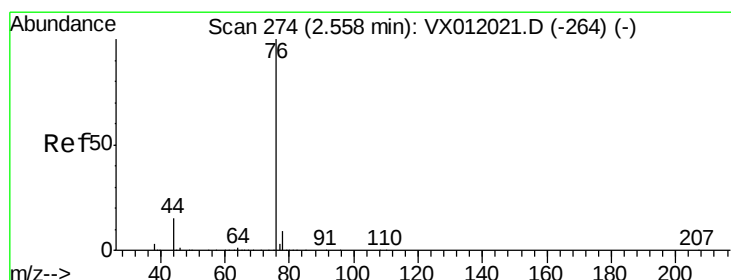
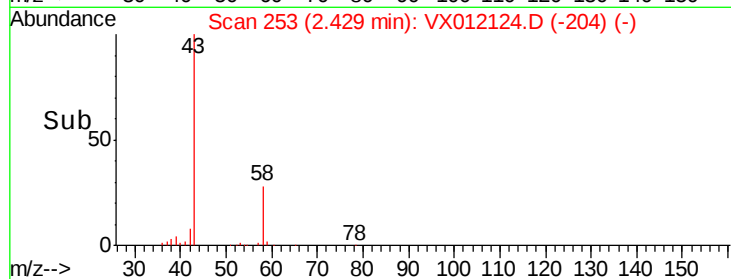
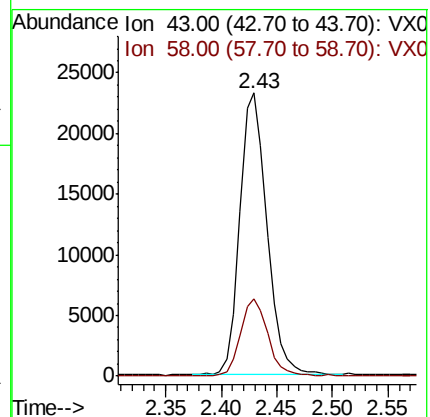
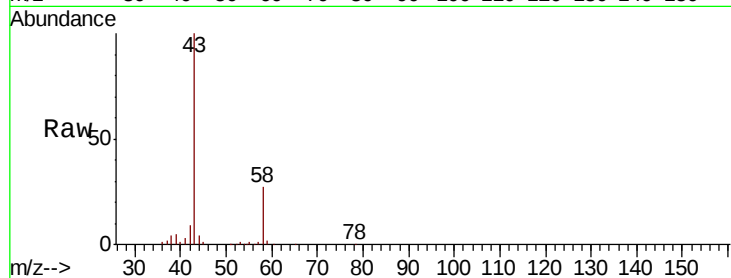
SB-4-18-20

Tgt Ion: 43 Resp: 39062

Ion Ratio Lower Upper

43 100

58 27.5 22.8 34.2



#17

Carbon Disulfide

Concen: 5.746 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX012124.D

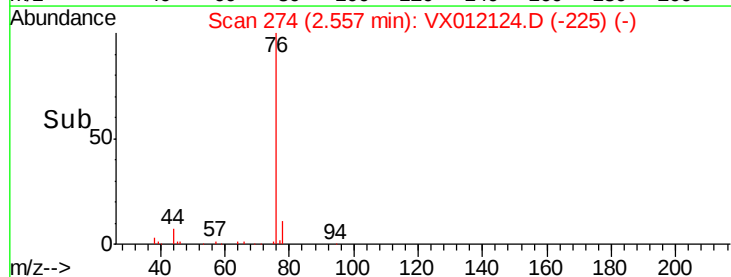
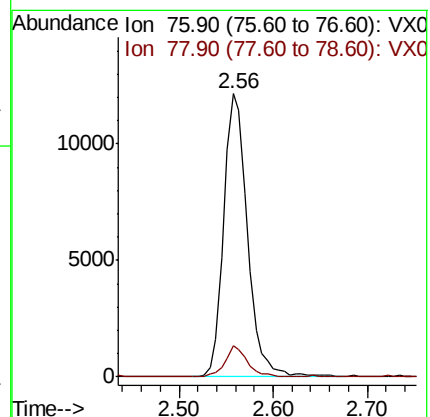
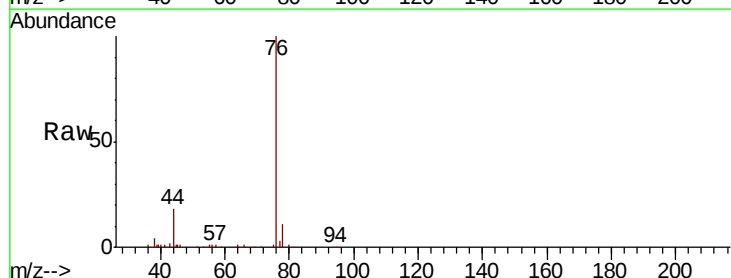
Acq: 06 Sep 2019 03:20

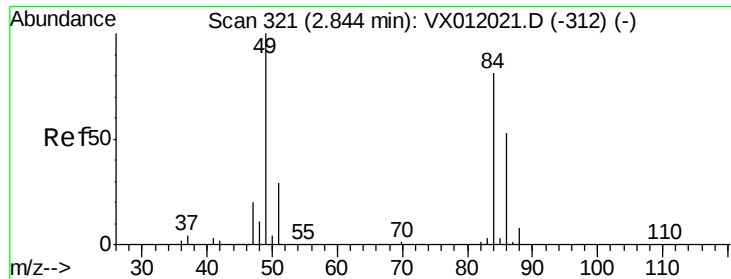
Tgt Ion: 76 Resp: 21334

Ion Ratio Lower Upper

76 100

78 11.1 7.4 11.2

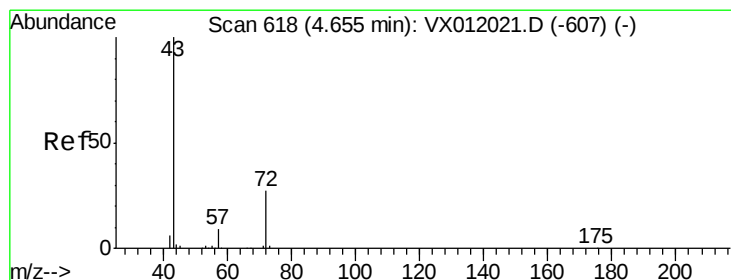
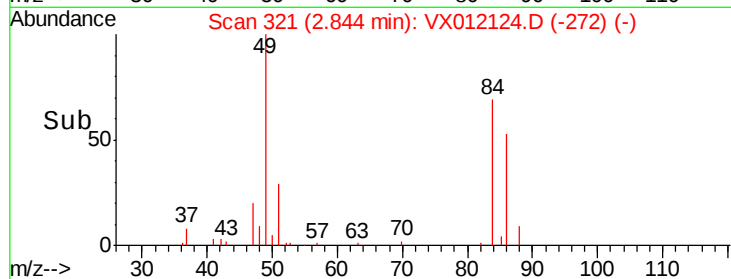
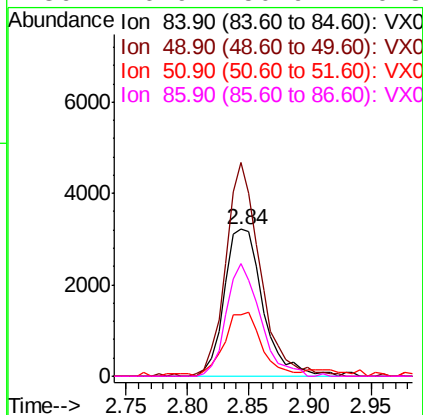
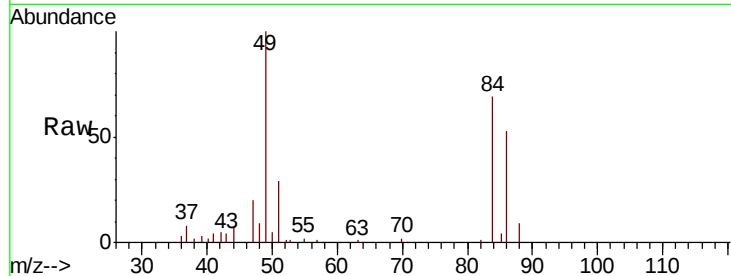




#20
Methylene Chloride
Concen: 4.115 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

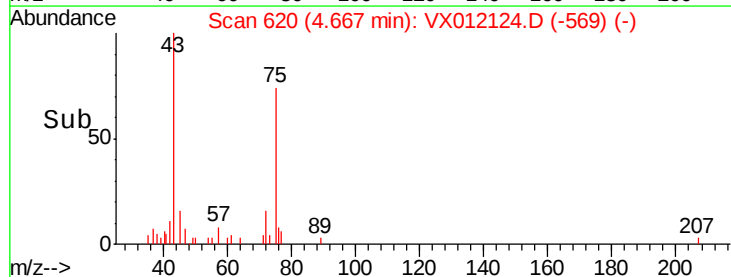
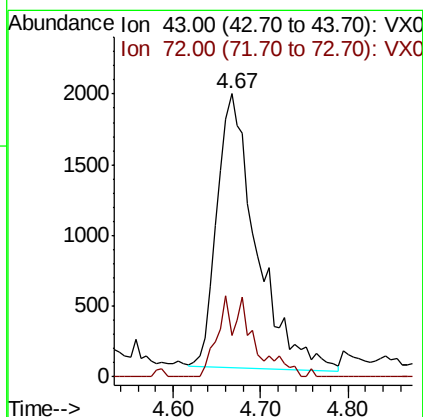
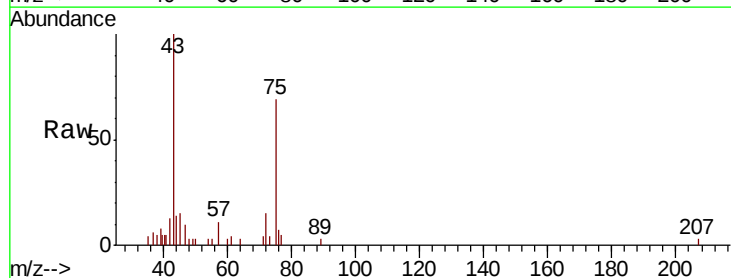
Instrument :
MSVOA_X
ClientSampled :
SB-4-18-20

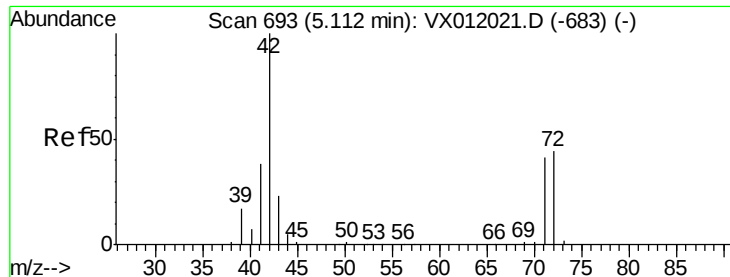
Tgt Ion: 84 Resp: 7031
Ion Ratio Lower Upper
84 100
49 145.6 95.8 143.8#
51 39.7 28.6 43.0
86 76.9 50.9 76.3#



#25
2-Butanone
Concen: 11.222 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

Tgt Ion: 43 Resp: 6078
Ion Ratio Lower Upper
43 100
72 15.4 21.3 31.9#

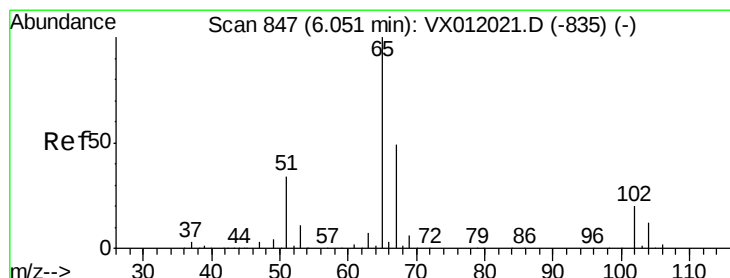
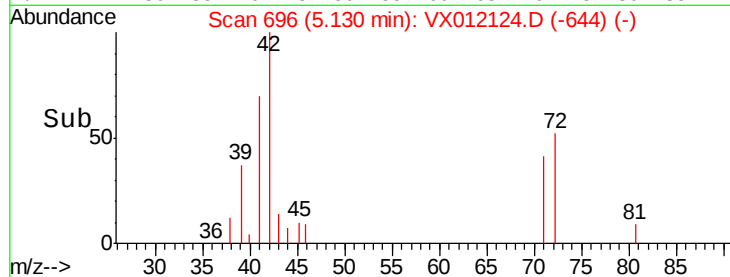
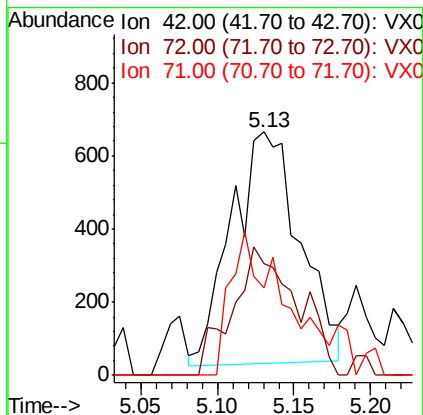
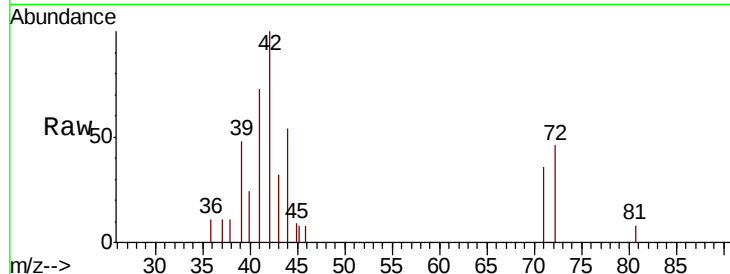




#29
Tetrahydrofuran
Concen: 6.046 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

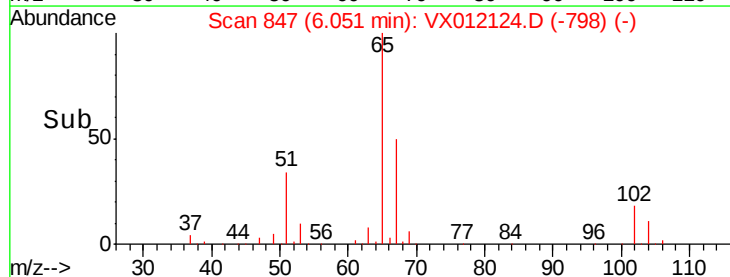
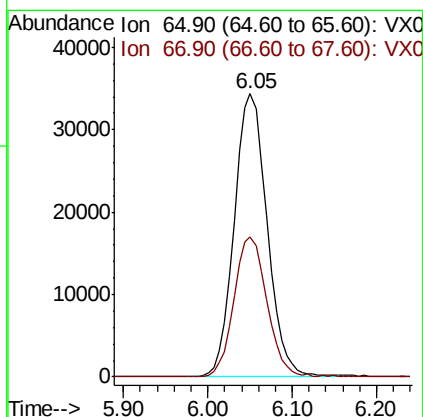
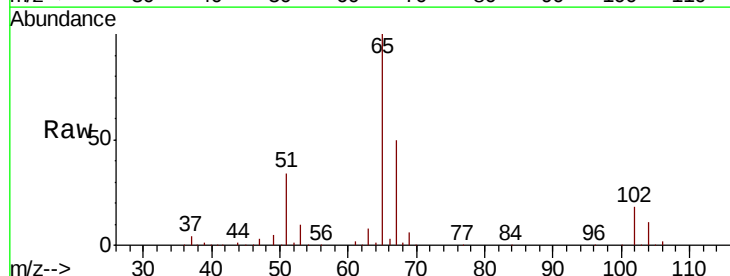
Instrument :
MSVOA_X
ClientSampled :
SB-4-18-20

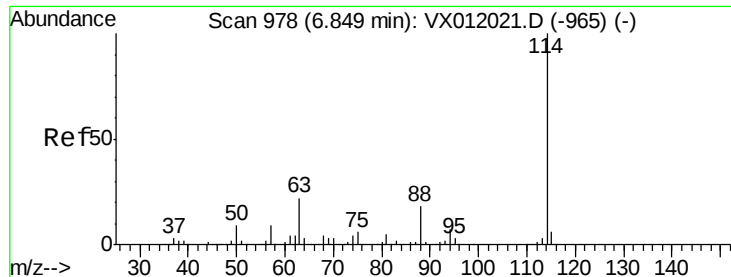
Tgt Ion: 42 Resp: 1973
Ion Ratio Lower Upper
42 100
72 52.2 37.0 55.4
71 48.4 33.8 50.8



#33
1,2-Dichloroethane-d4
Concen: 50.802 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

Tgt Ion: 65 Resp: 90437
Ion Ratio Lower Upper
65 100
67 49.5 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampleId :

SB-4-18-20

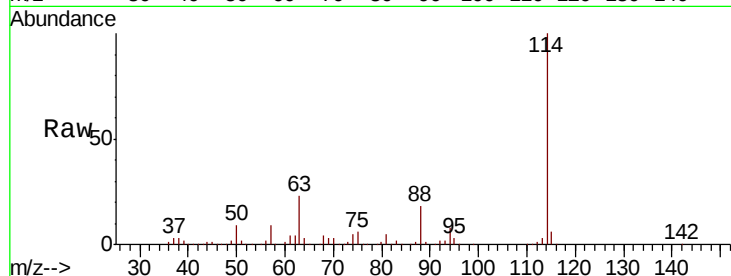
Tgt Ion:114 Resp: 224205

Ion Ratio Lower Upper

114 100

63 22.5 0.0 37.4

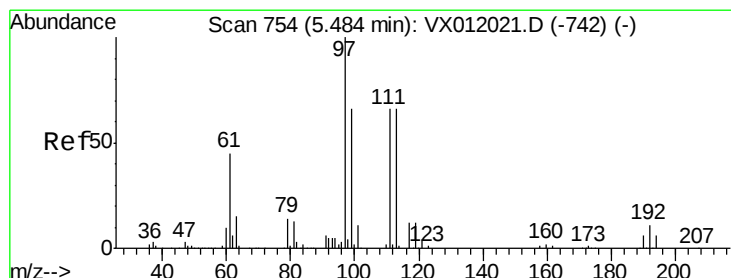
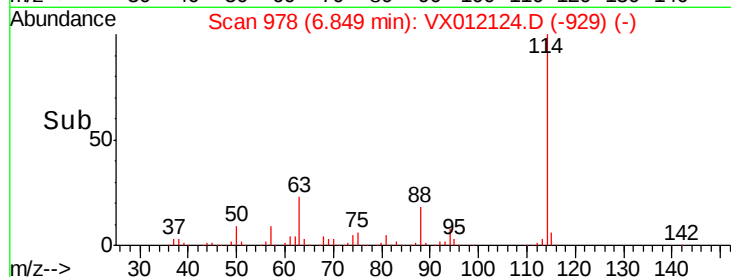
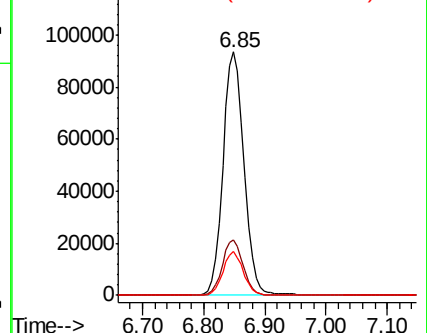
88 18.0 0.0 29.6



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: 47.906 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

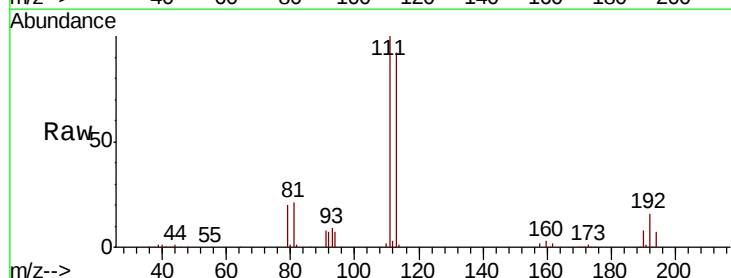
Tgt Ion:113 Resp: 66052

Ion Ratio Lower Upper

113 100

111 105.0 81.7 122.5

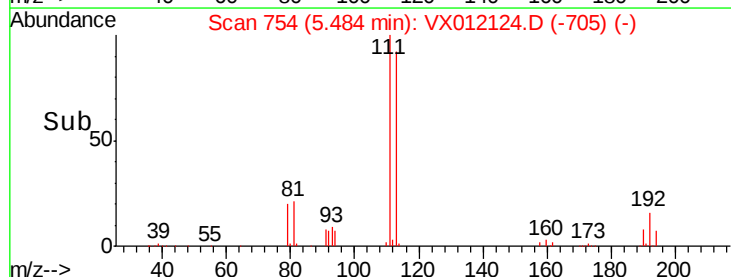
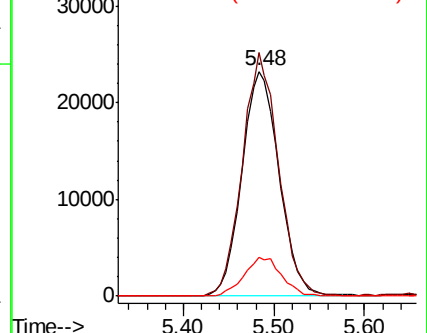
192 17.4 22.5 33.7#

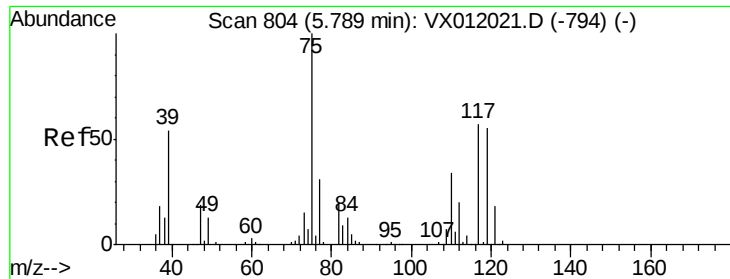


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

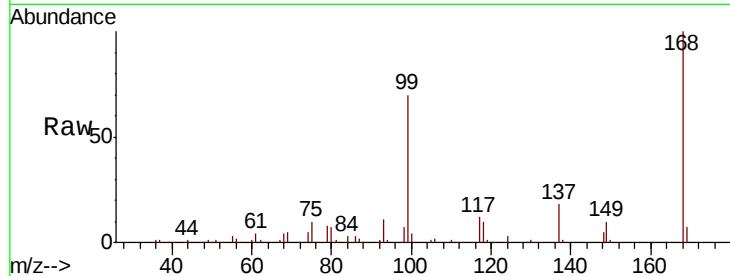




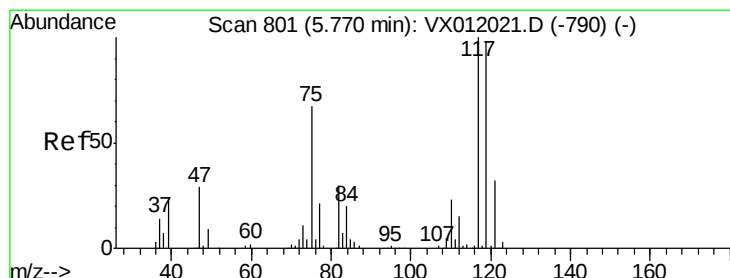
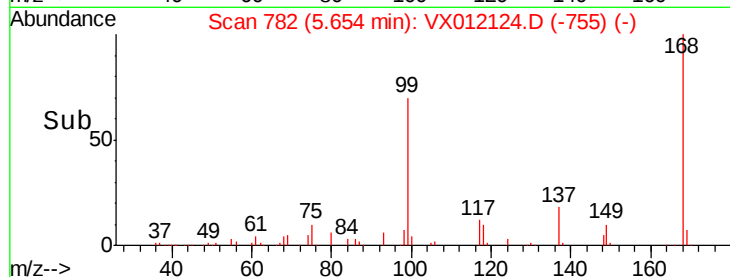
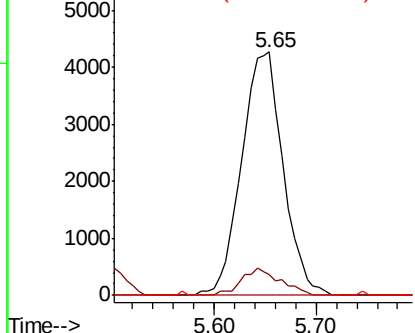
#36
 1,1-Dichloropropene
 Concen: 6.112 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012124.D
 Acq: 06 Sep 2019 03:20

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-4-18-20

Tgt Ion: 75 Resp: 12069
 Ion Ratio Lower Upper
 75 100
 110 10.6 19.5 58.5#
 77 0.0 24.6 37.0#

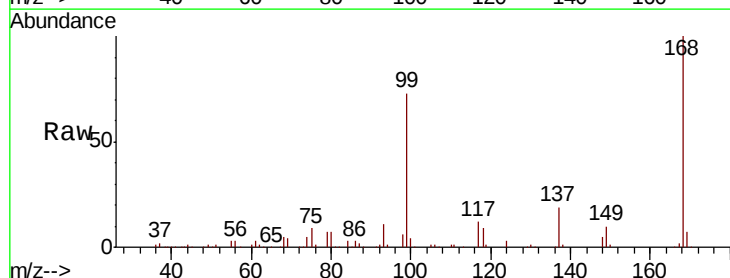


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

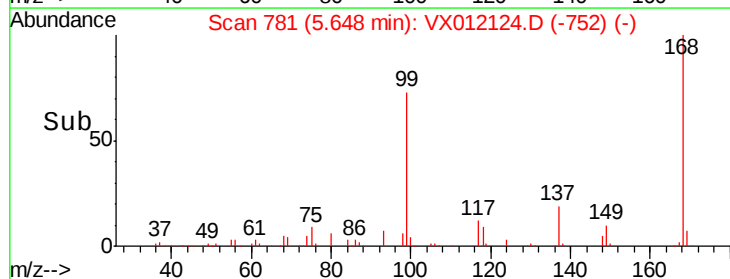
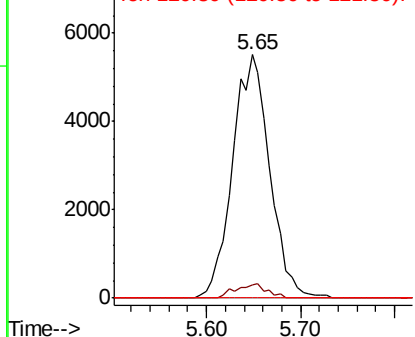


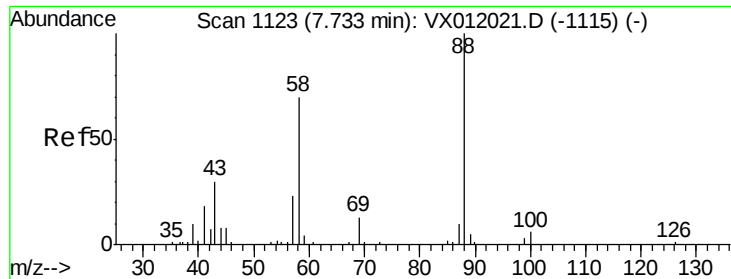
#38
 Carbon Tetrachloride
 Concen: 7.277 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.12 min
 Lab File: VX012124.D
 Acq: 06 Sep 2019 03:20

Tgt Ion: 117 Resp: 15141
 Ion Ratio Lower Upper
 117 100
 119 5.3 78.3 117.5#
 121 0.0 24.2 36.2#



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

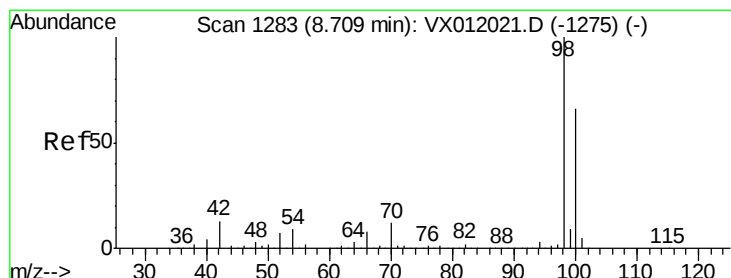
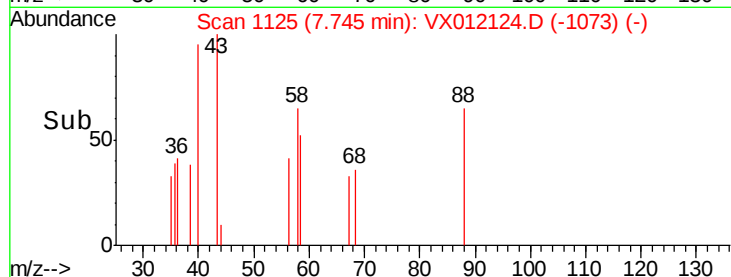
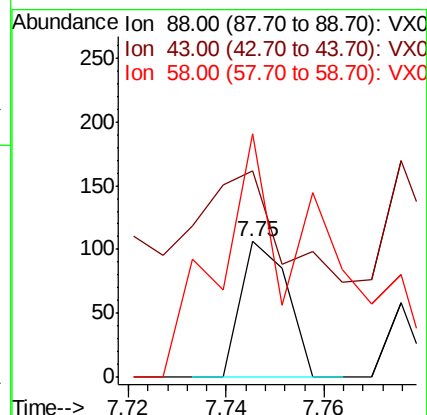
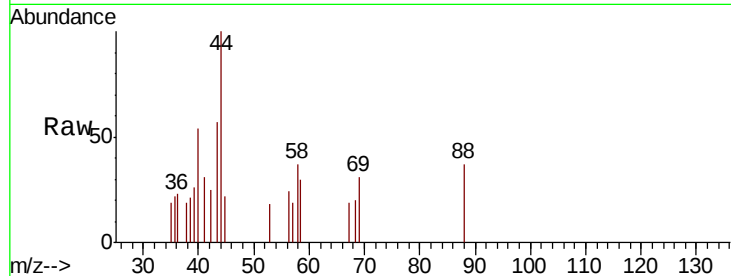




#49
 1,4-Dioxane
 Concen: 4.677 ug/l
 RT: 7.75 min Scan# 1125
 Delta R.T. 0.02 min
 Lab File: VX012124.D
 Acq: 06 Sep 2019 03:20

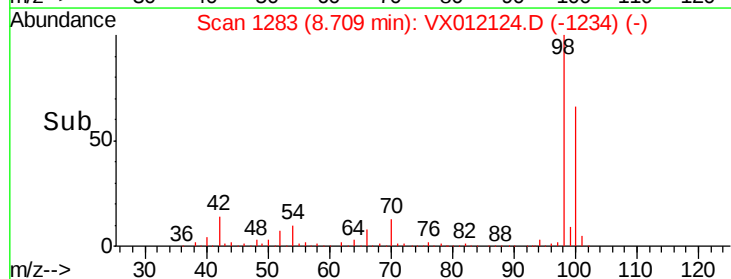
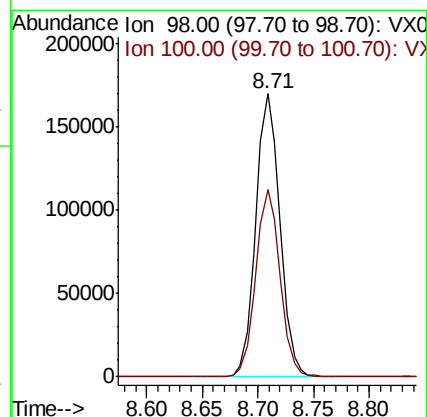
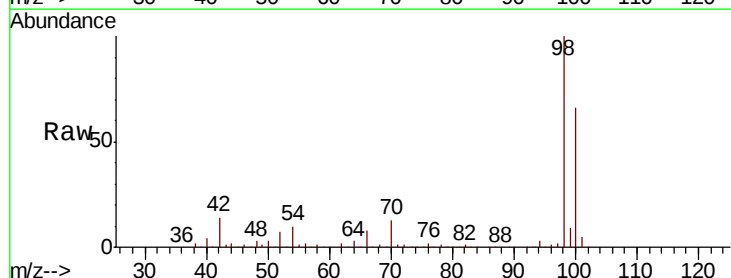
Instrument :
 MSVOA_X
 ClientSampled :
 SB-4-18-20

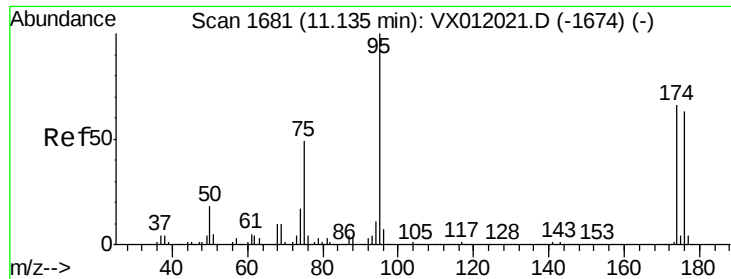
Tgt Ion: 88 Resp: 70
 Ion Ratio Lower Upper
 88 100
 43 221.4 29.8 44.6#
 58 441.4 55.4 83.2#



#50
 Toluene-d8
 Concen: 50.870 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VX012124.D
 Acq: 06 Sep 2019 03:20

Tgt Ion: 98 Resp: 257380
 Ion Ratio Lower Upper
 98 100
 100 66.6 53.3 79.9

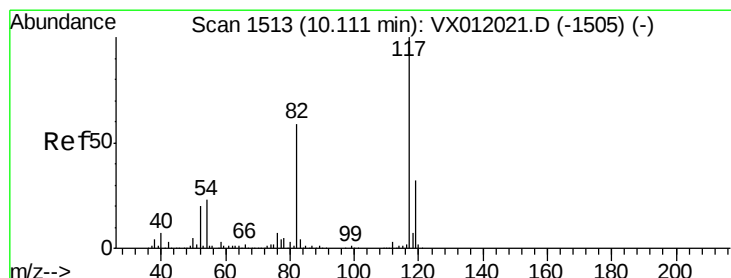
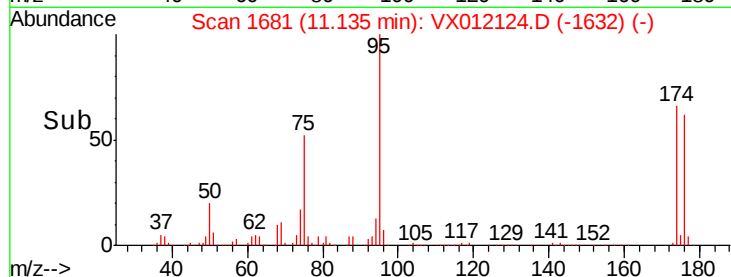
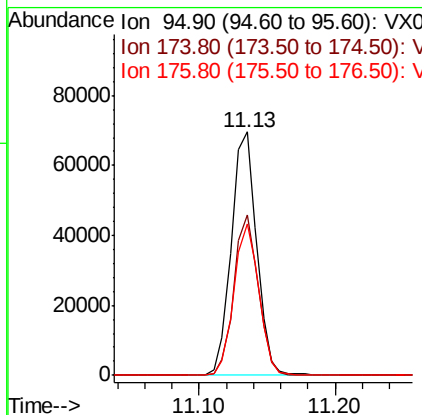
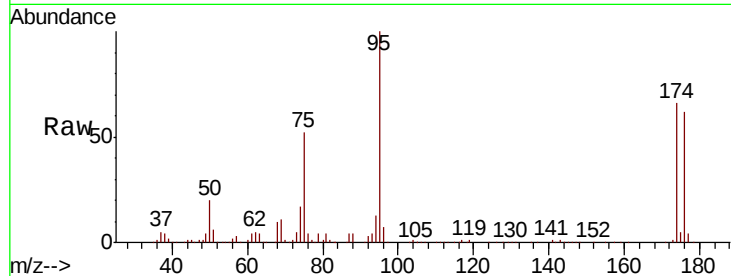




#62
4-Bromofluorobenzene
Concen: 38.424 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

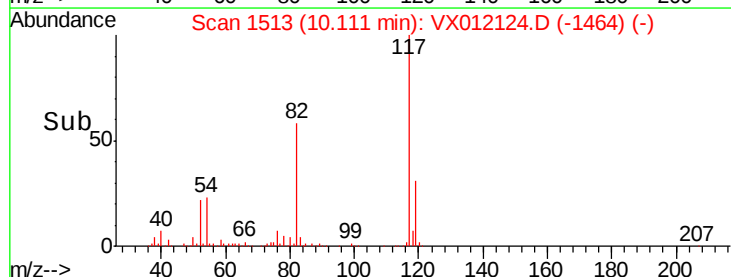
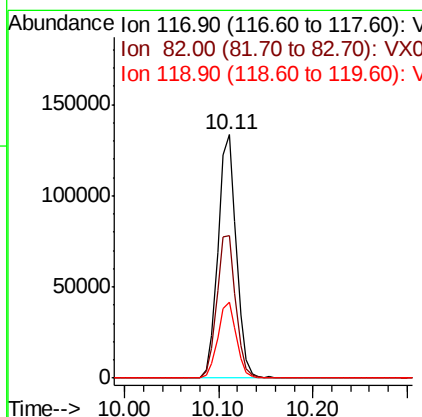
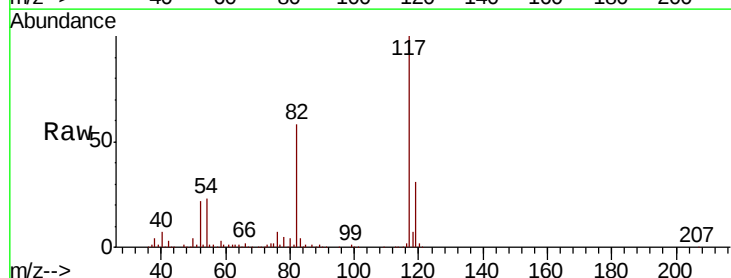
Instrument :
MSVOA_X
ClientSampleId :
SB-4-18-20

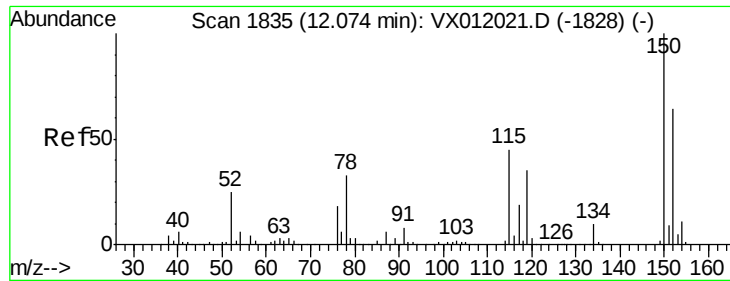
Tgt Ion: 95 Resp: 90412
Ion Ratio Lower Upper
95 100
174 63.7 0.0 205.4
176 61.0 0.0 201.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

Tgt Ion: 117 Resp: 179514
Ion Ratio Lower Upper
117 100
82 58.4 39.4 59.0
119 31.0 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampleId :

SB-4-18-20

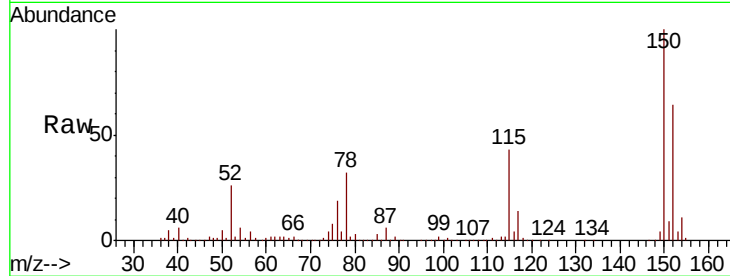
Tgt Ion:152 Resp: 66097

Ion Ratio Lower Upper

152 100

115 67.7 36.4 109.3

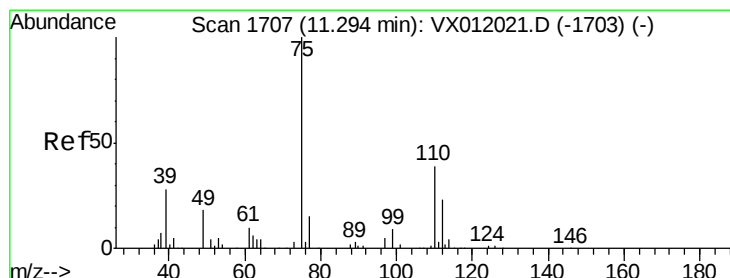
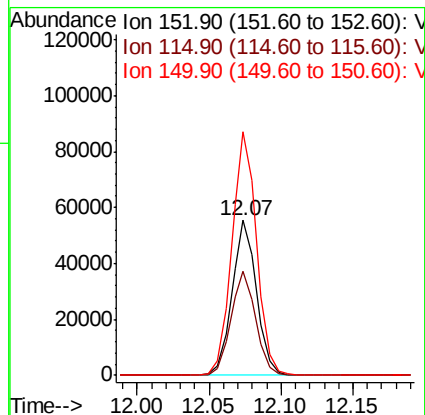
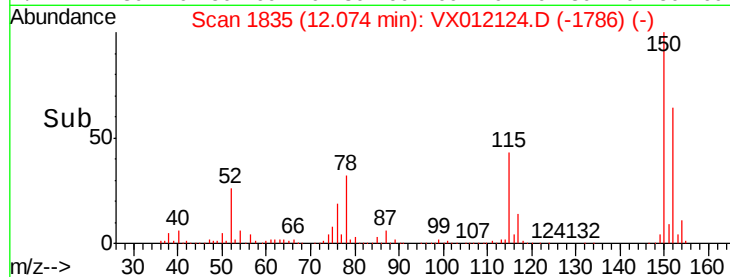
150 158.8 0.0 341.2



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: 59.771 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.17 min

Lab File: VX012124.D

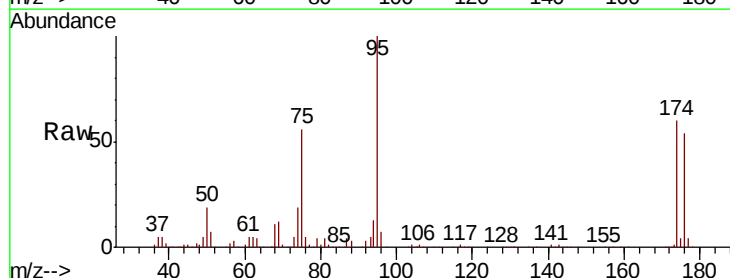
Acq: 06 Sep 2019 03:20

Tgt Ion: 75 Resp: 48271

Ion Ratio Lower Upper

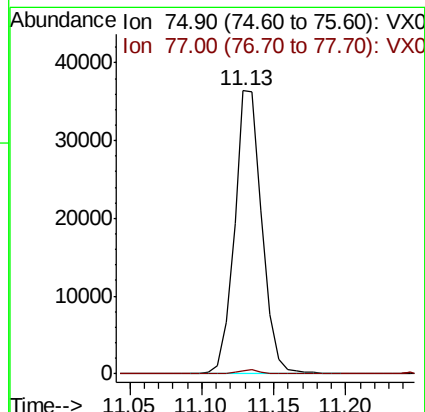
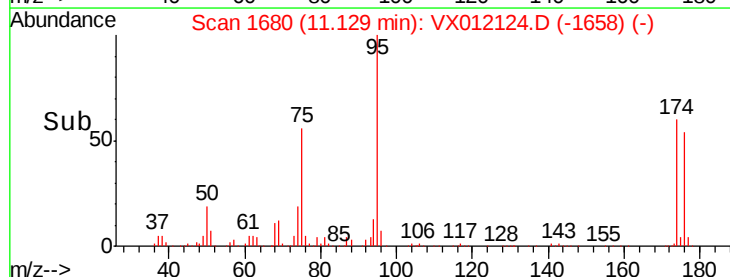
75 100

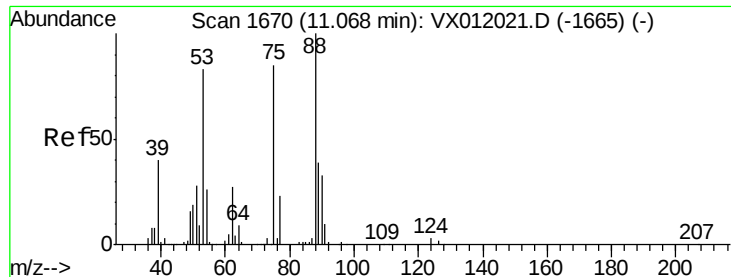
77 1.3 23.5 70.5#



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: 141.307 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

Instrument :

MSVOA_X

ClientSampleId :

SB-4-18-20

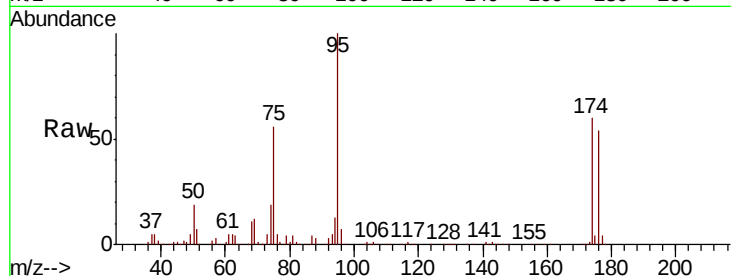
Tgt Ion: 75 Resp: 48271

Ion Ratio Lower Upper

75 100

53 0.1 78.6 117.8#

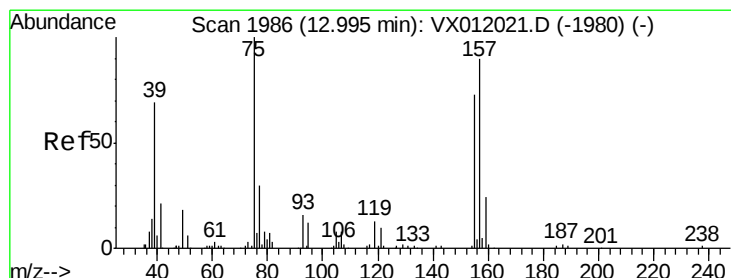
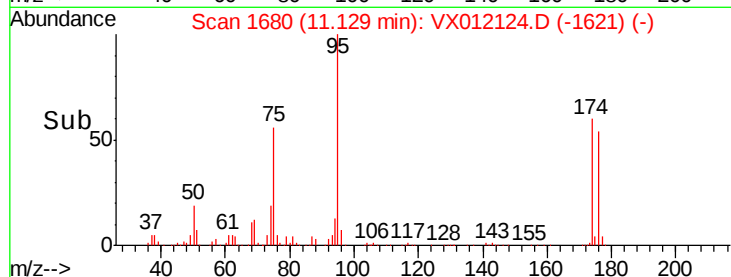
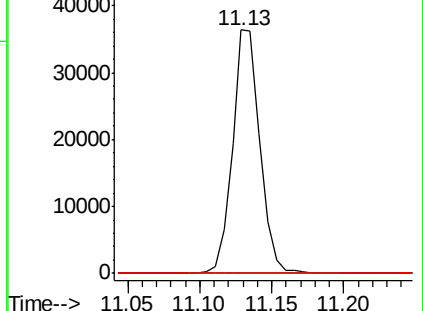
89 0.0 38.8 58.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.947 ug/l

RT: 13.01 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VX012124.D

Acq: 06 Sep 2019 03:20

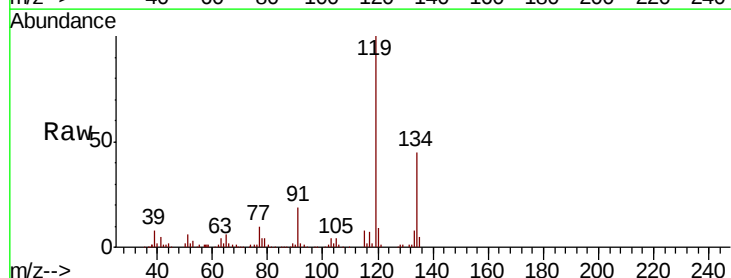
Tgt Ion: 75 Resp: 412

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.2#

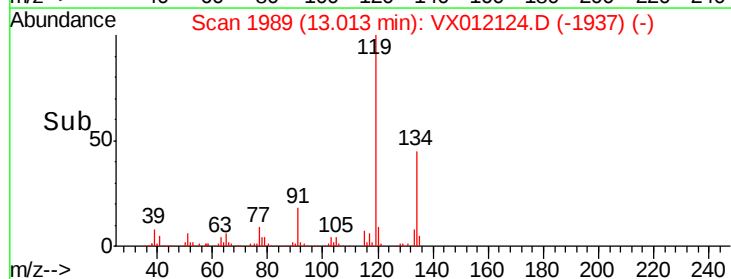
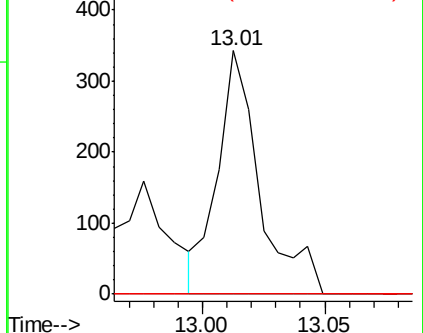
157 0.0 66.9 200.7#

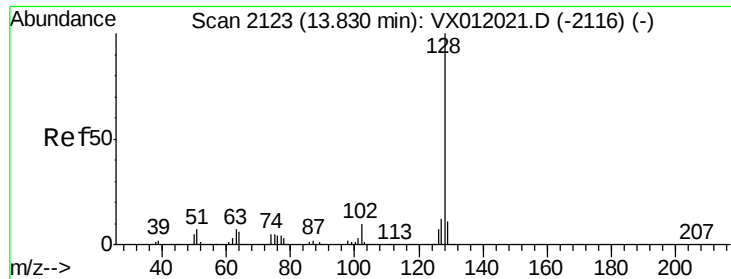


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 2.797 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX012124.D
Acq: 06 Sep 2019 03:20

Instrument :
MSVOA_X
ClientSampleId :
SB-4-18-20

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	12.2	8.8	13.2

