

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018952.D
 Acq On : 15 Oct 2020 22:54
 Operator : JC/SP
 Sample : L4386-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-4

Quant Time: Oct 16 01:46:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 15 15:32:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	45505	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.83	114	256190	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	233234	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	96217	33.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.50%
60) 4-Bromofluorobenzene	11.12	95	105043	28.93	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.43%
63) Toluene-d8	8.70	98	310371	30.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.53%

Target Compounds

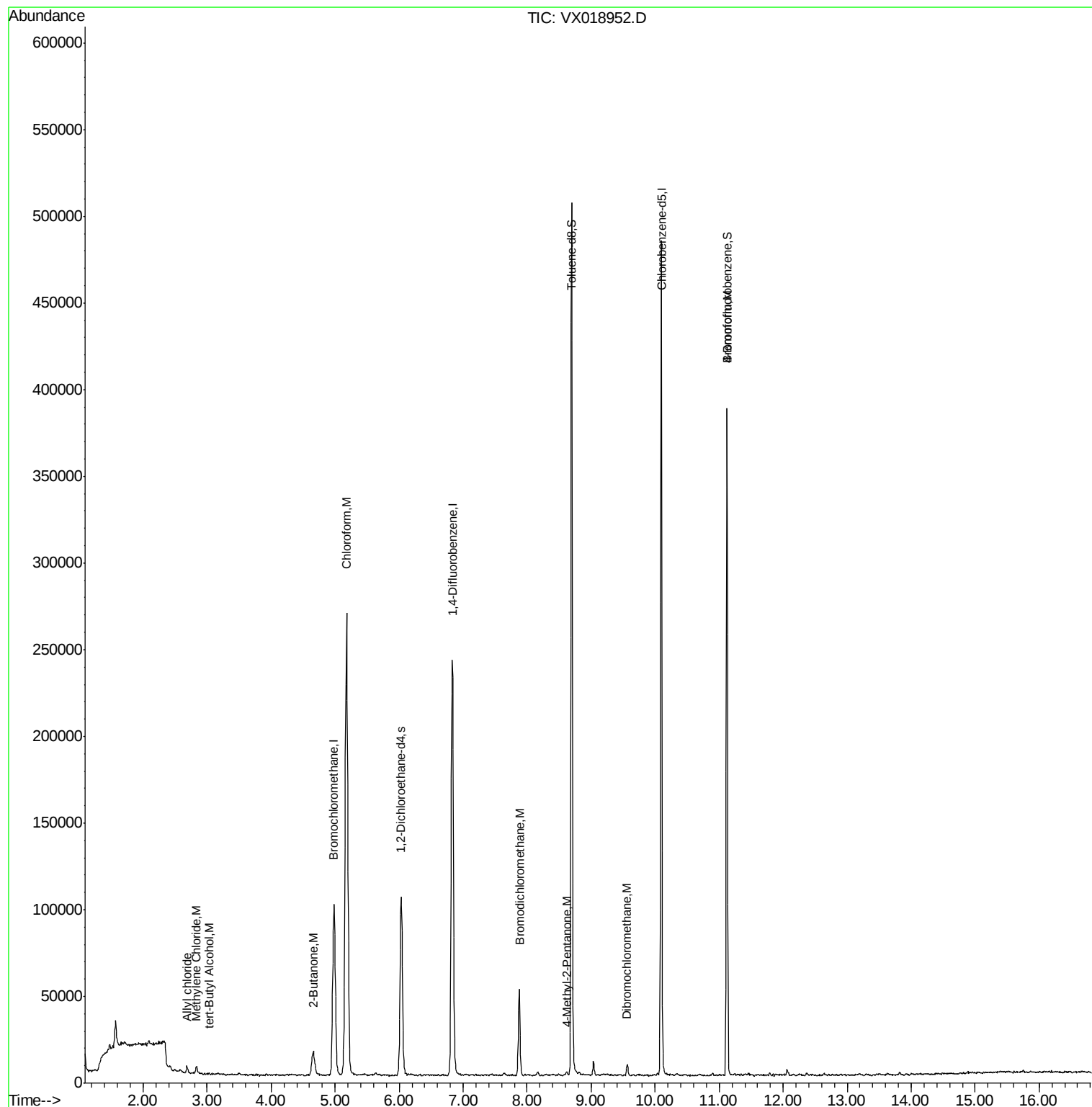
					Ovalue	
17) Allyl chloride	2.68	41	3488	0.987	ug/l #	36
18) Methylene Chloride	2.83	84	2053	0.748	ug/l	91
23) tert-Butyl Alcohol	3.02	59	154	0.223	ug/l #	100
25) Chloroform	5.18	83	325914	68.480	ug/l	97
30) 2-Butanone	4.65	43	603	0.326	ug/l #	86
41) Bromodichloromethane	7.88	83	32703	8.124	ug/l	98
53) Dibromochloromethane	9.56	129	2056	0.609	ug/l	98
56) Bromoform	11.12	173	821	0.315	ug/l #	1
58) 4-Methyl-2-Pentanone	8.62	43	1596	0.429	ug/l #	53

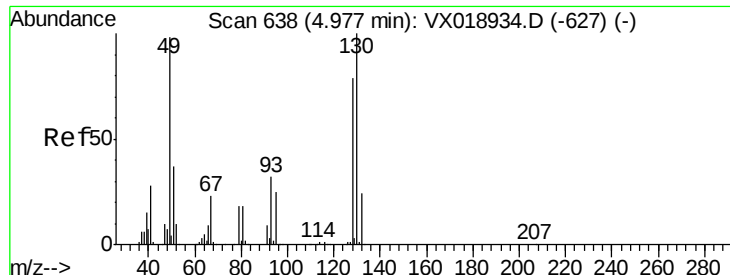
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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14B-4

Quant Time: Oct 16 01:46:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X101520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 15 15:32:58 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

Instrument :

MSVOA_X

ClientSampled :

14B-4

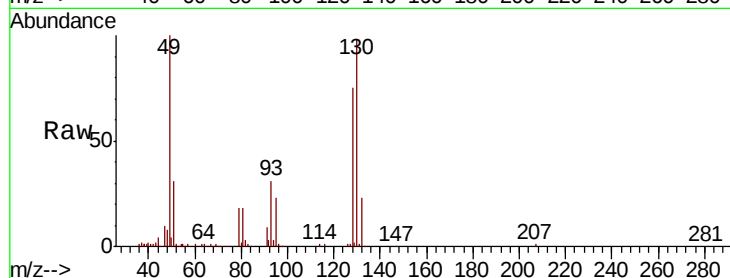
Tot Ion:128 Resp: 45505

Ion Ratio Lower Upper

128 100

49 139.4 0.0 330.5

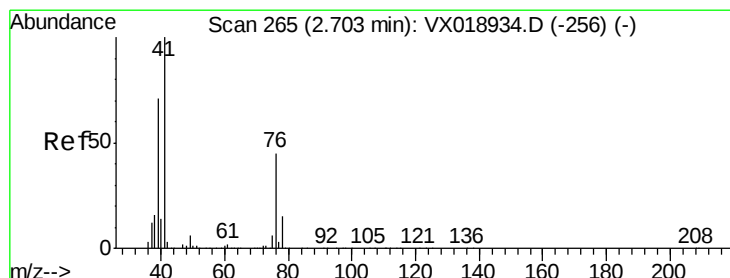
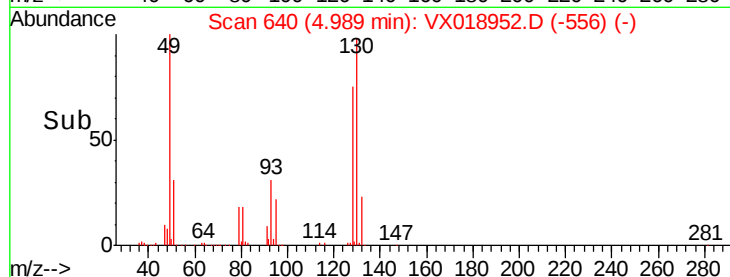
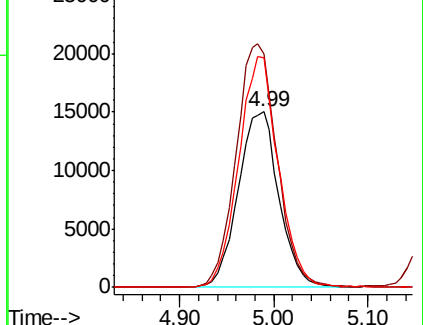
130 128.2 0.0 323.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#17

Allyl chloride

Concen: 0.987 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

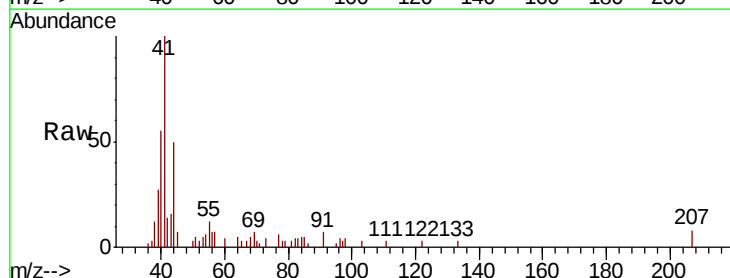
Tgt Ion: 41 Resp: 3488

Ion Ratio Lower Upper

41 100

39 20.7 35.4 106.3#

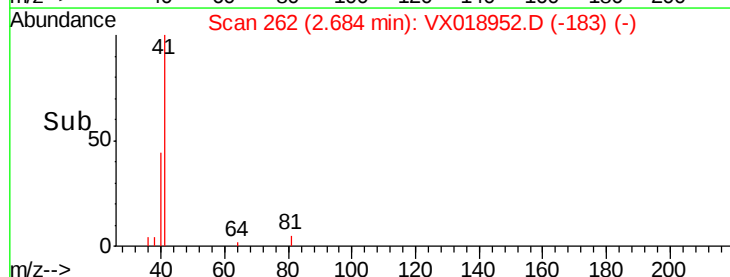
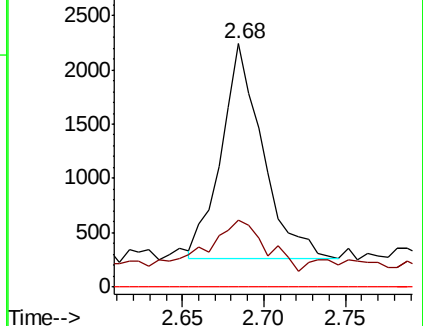
76 0.0 22.4 67.2#

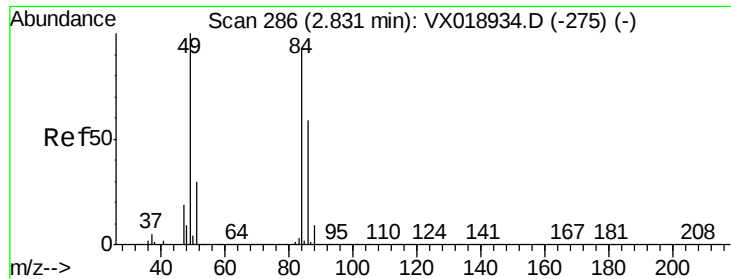


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0

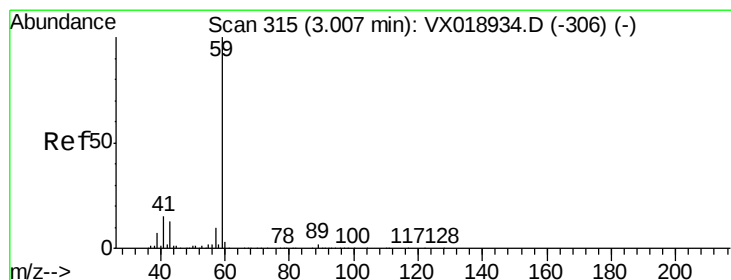
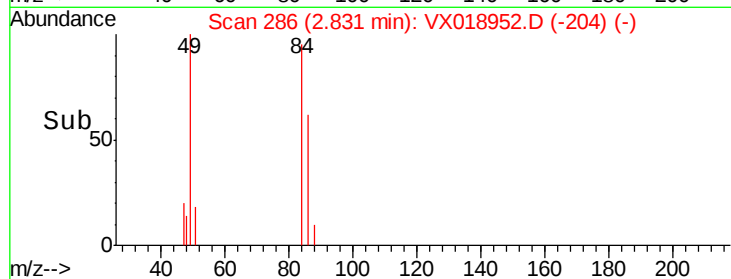
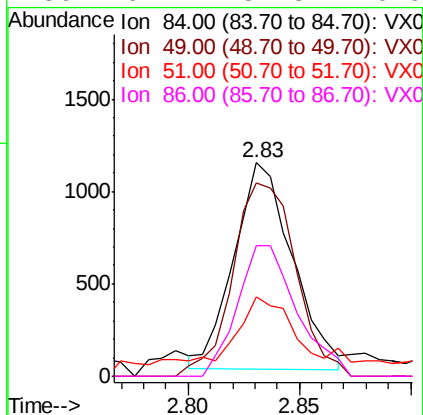
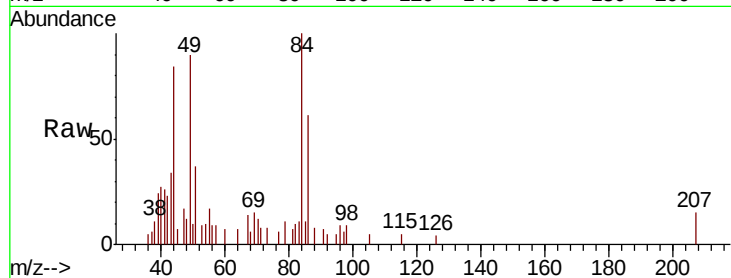




#18
Methvlene Chloride
Concen: 0.748 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX018952.D
Acq: 15 Oct 2020 22:54

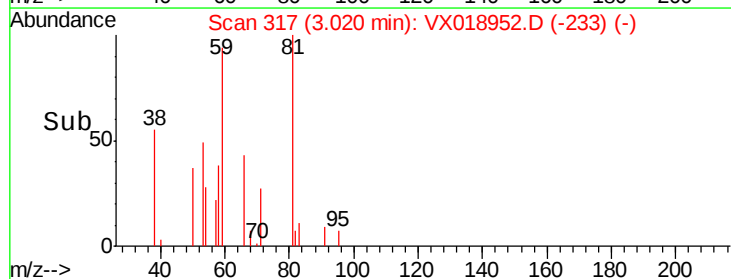
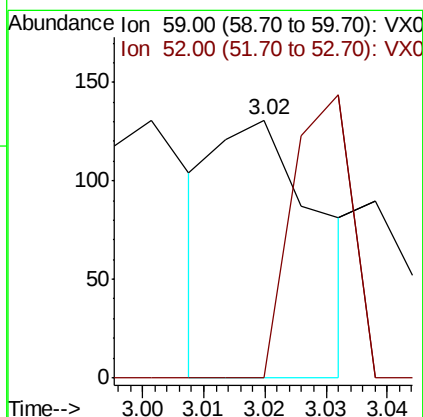
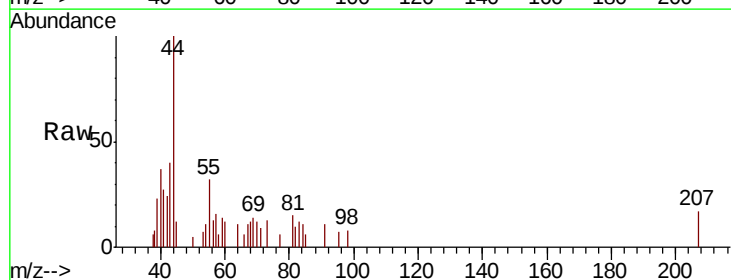
Instrument :
MSVOA_X
ClientSampleId :
14B-4

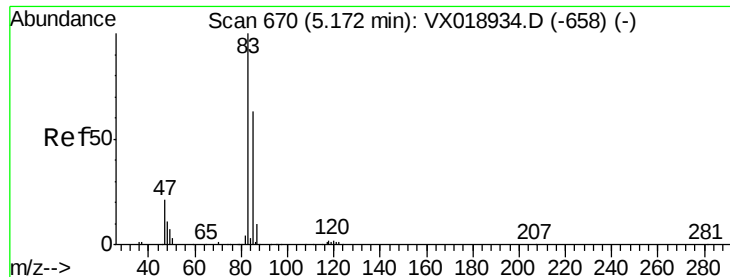
Tot Ion:	84	Resp:	2053
Ion	Ratio	Lower	Upper
84	100		
49	94.4	87.2	130.8
51	33.5	25.9	38.9
86	67.2	51.3	76.9



#23
tert-Butyl Alcohol
Concen: 0.223 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX018952.D
Acq: 15 Oct 2020 22:54

Tgt Ion:	59	Resp:	154
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.2	0.2#





#25

Chloroform

Concen: 68.480 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

Instrument :

MSVOA_X

ClientSampleId :

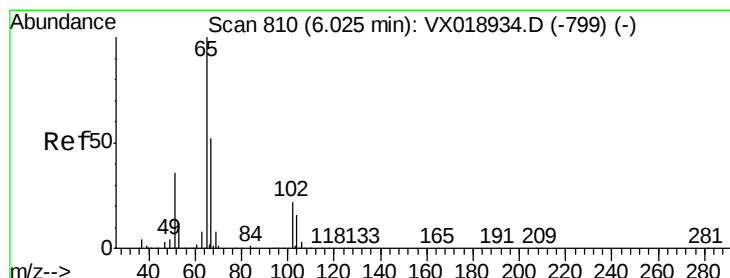
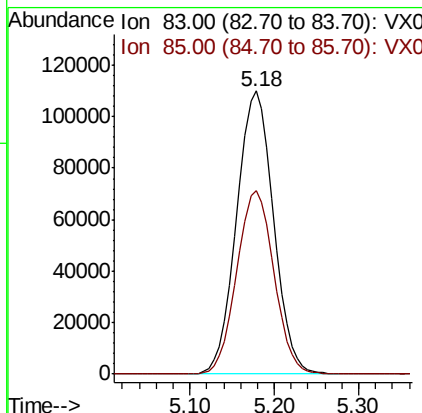
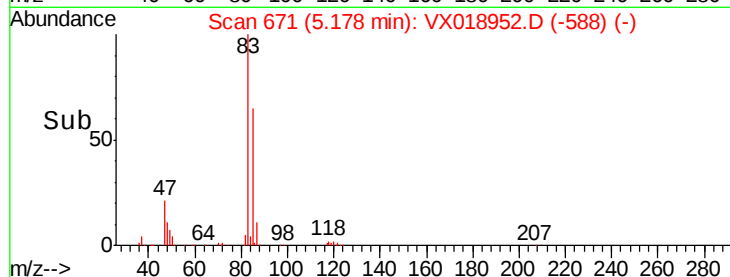
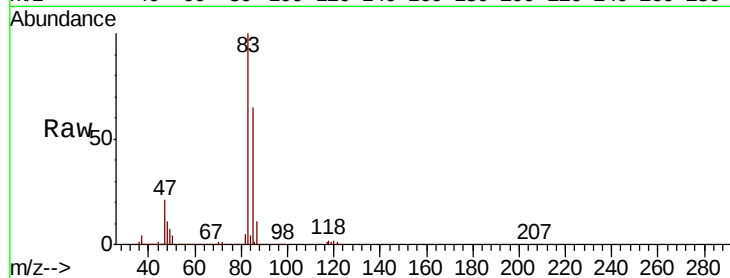
14B-4

Tot Ion: 83 Resp: 325914

Ion Ratio Lower Upper

83 100

85 64.9 50.3 75.5



#27

1,2-Dichloroethane-d4

Concen: 33.146 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX018952.D

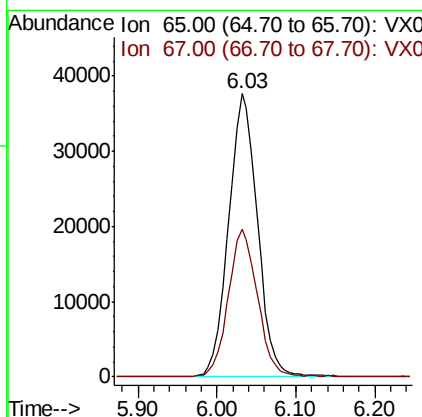
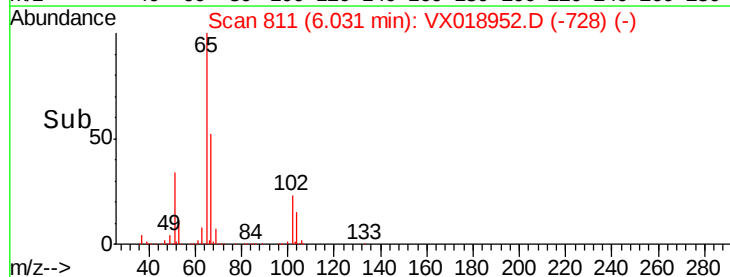
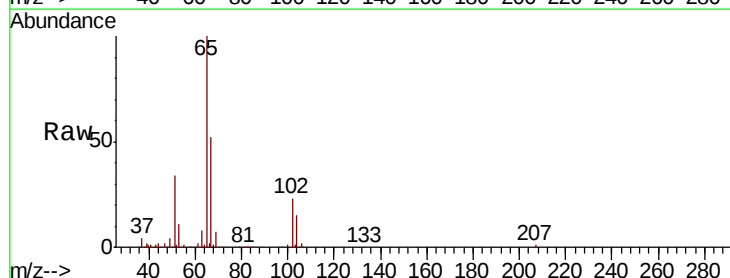
Acq: 15 Oct 2020 22:54

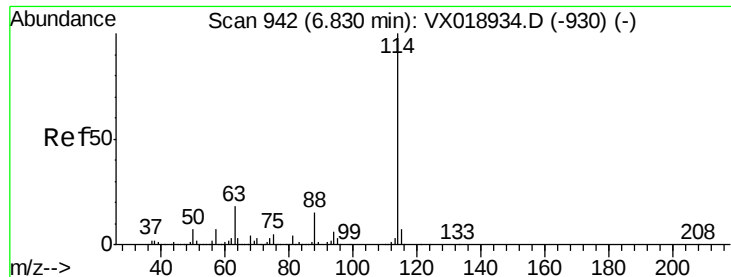
Tgt Ion: 65 Resp: 96217

Ion Ratio Lower Upper

65 100

67 51.2 42.1 63.1

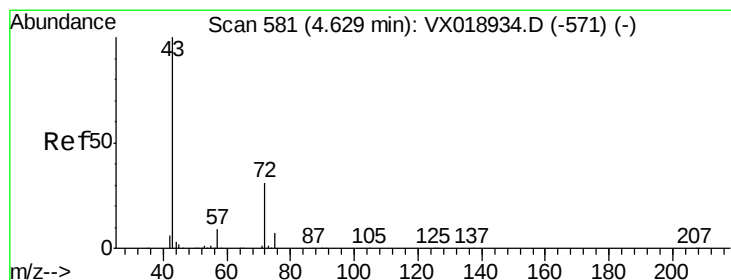
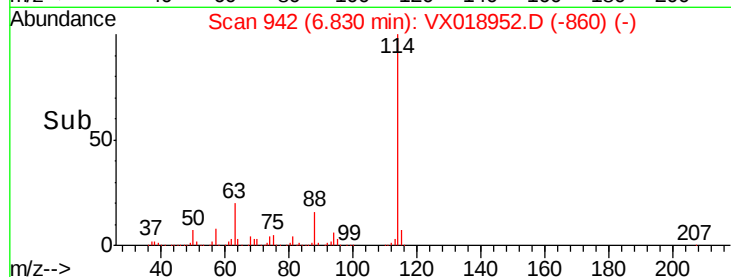
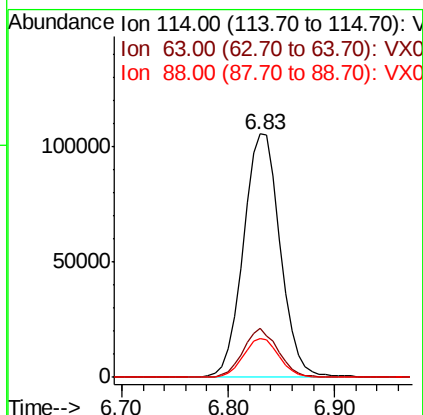
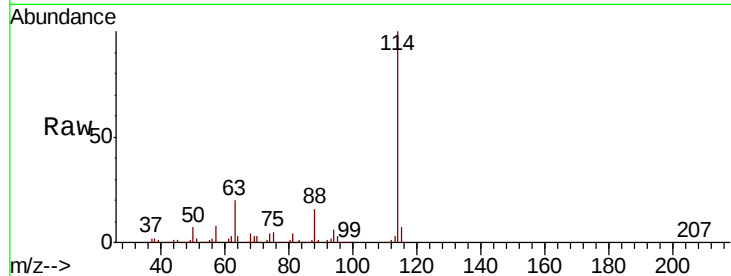




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018952.D
 Acq: 15 Oct 2020 22:54

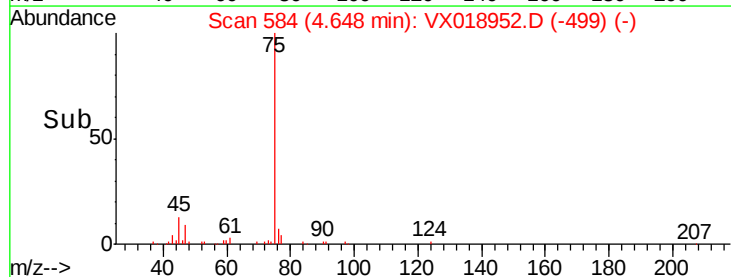
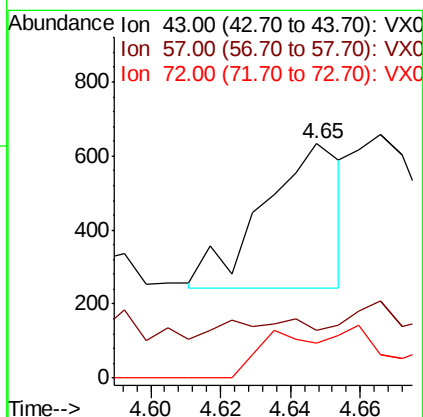
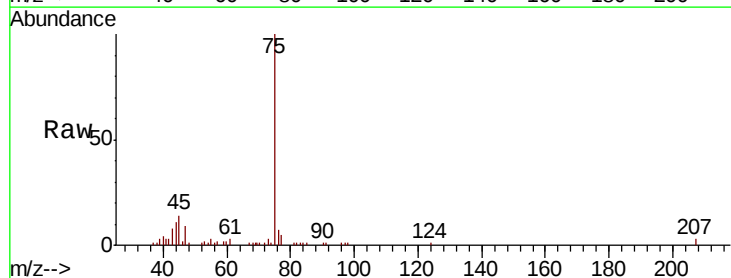
Instrument :
 MSVOA_X
 ClientSampled :
 14B-4

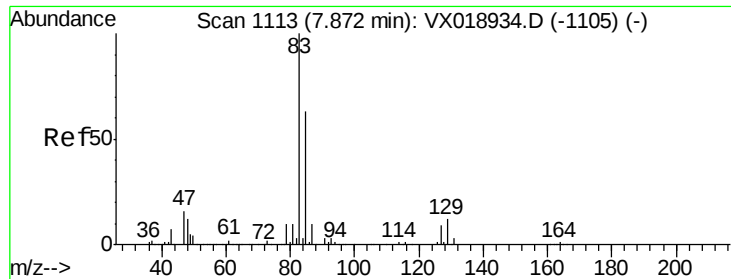
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	14.6	21.8
88	15.7	12.3	18.5



#30
 2-Butanone
 Concen: 0.326 ug/l
 RT: 4.65 min Scan# 584
 Delta R.T. 0.02 min
 Lab File: VX018952.D
 Acq: 15 Oct 2020 22:54

Tgt Ion	Ratio	Lower	Upper
43	100		
57	11.6	7.0	10.6#
72	23.5	25.6	38.4#





#41

Bromodichloromethane

Concen: 8.124 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

Instrument :

MSVOA_X

ClientSampleId :

14B-4

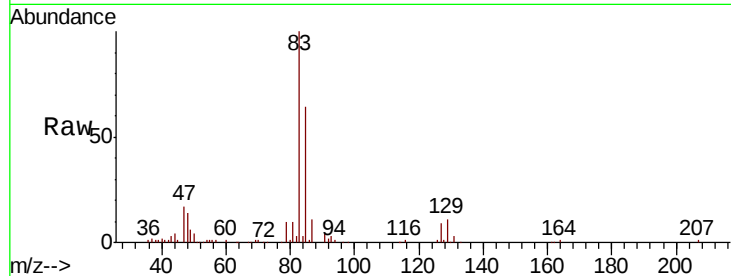
Tot Ion: 83 Resp: 32703

Ion Ratio Lower Upper

83 100

85 64.5 50.4 75.6

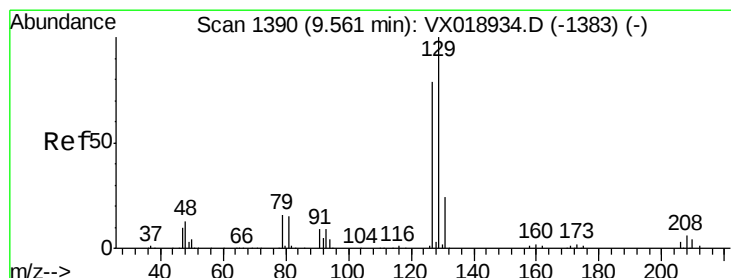
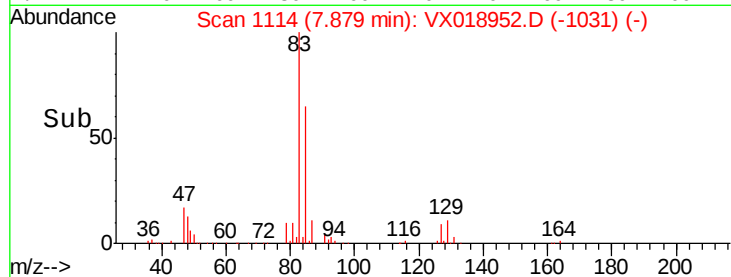
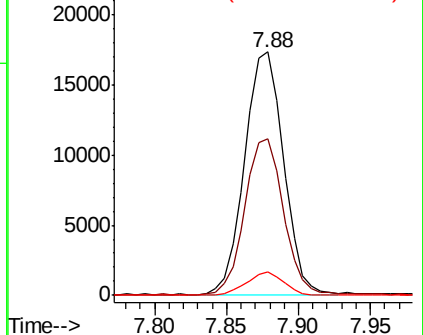
127 9.4 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VX018934.D (-1105) (-)

Ion 85.00 (84.70 to 85.70): VX018934.D (-1105) (-)

Ion 127.00 (126.70 to 127.70): VX018934.D (-1105) (-)



#53

Dibromochloromethane

Concen: 0.609 ug/l

RT: 9.56 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VX018952.D

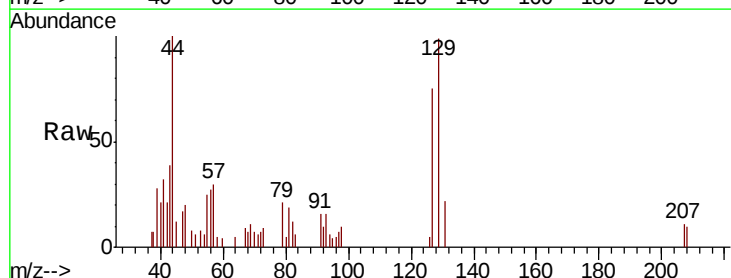
Acq: 15 Oct 2020 22:54

Tgt Ion: 129 Resp: 2056

Ion Ratio Lower Upper

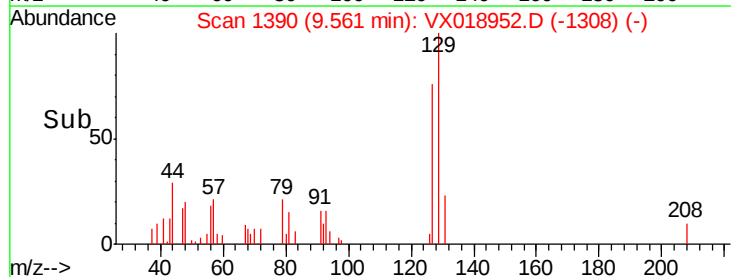
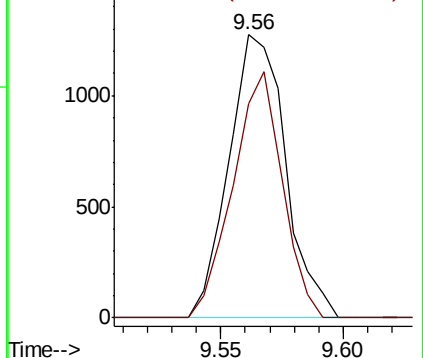
129 100

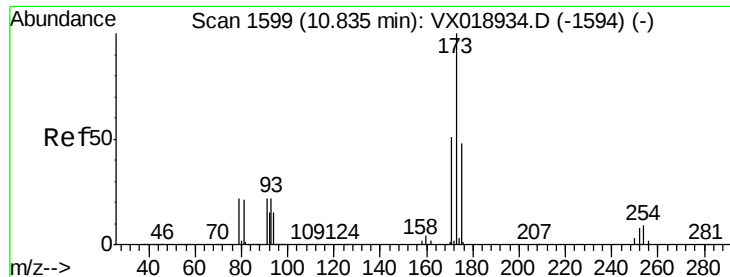
127 76.0 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): VX018934.D (-1383) (-)

Ion 127.00 (126.70 to 127.70): VX018934.D (-1383) (-)





#56

Bromoform

Concen: 0.315 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.29 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

Instrument :

MSVOA_X

ClientSampled :

14B-4

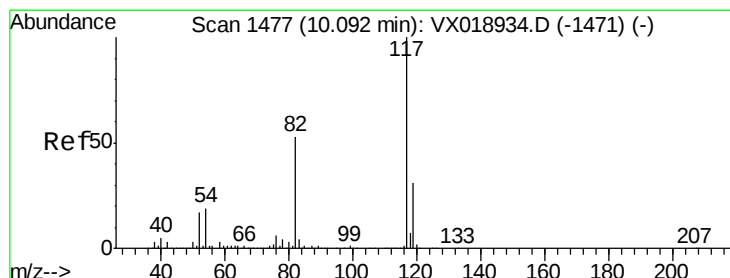
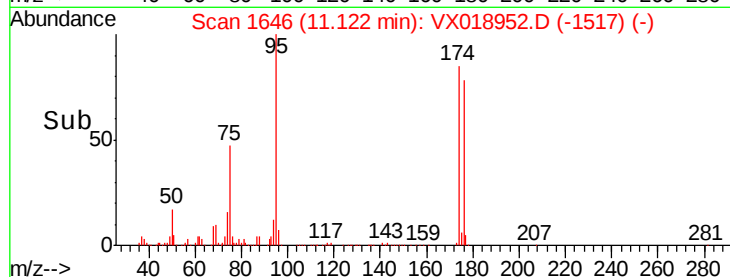
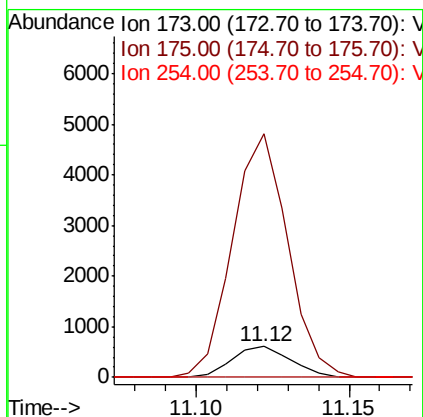
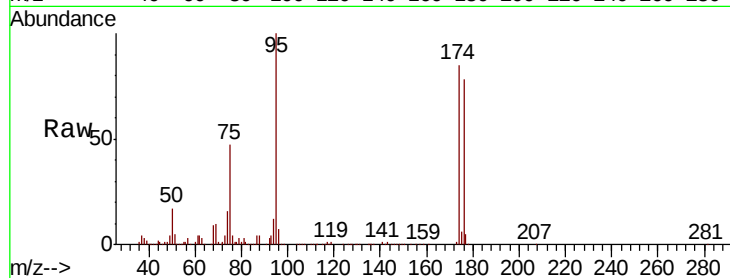
Tot Ion:173 Resp: 821

Ion Ratio Lower Upper

173 100

175 736.2 39.2 58.8#

254 0.0 7.5 11.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

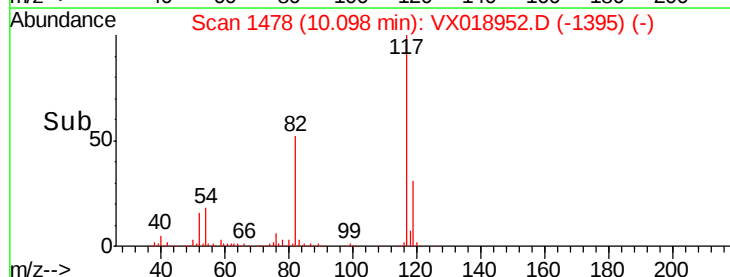
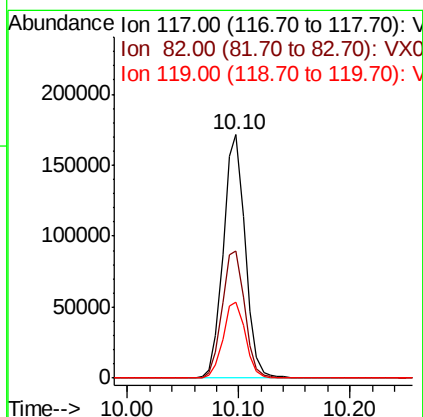
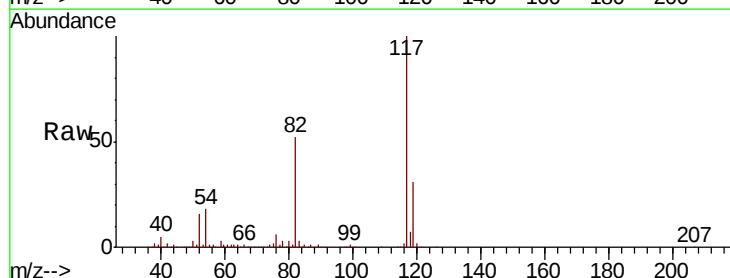
Tgt Ion:117 Resp: 233234

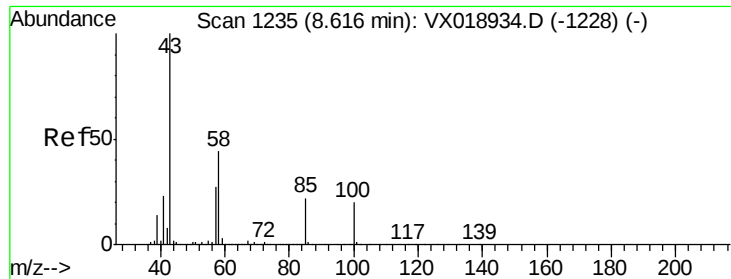
Ion Ratio Lower Upper

117 100

82 54.1 41.6 62.4

119 31.9 25.7 38.5

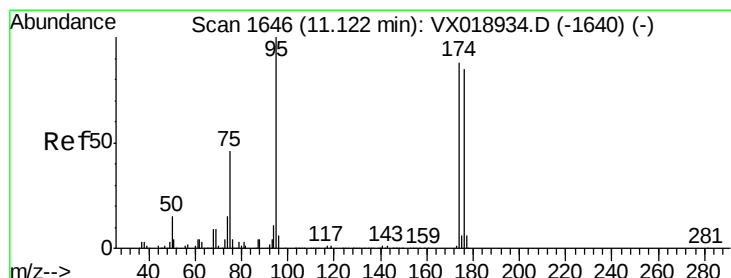
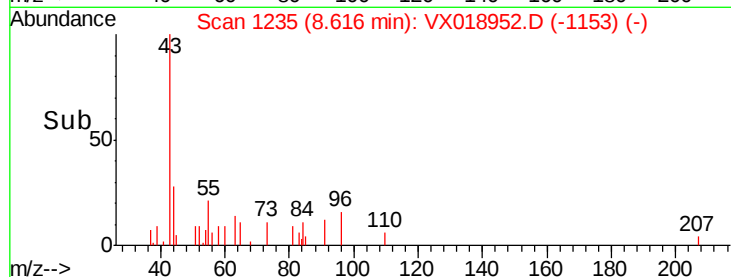
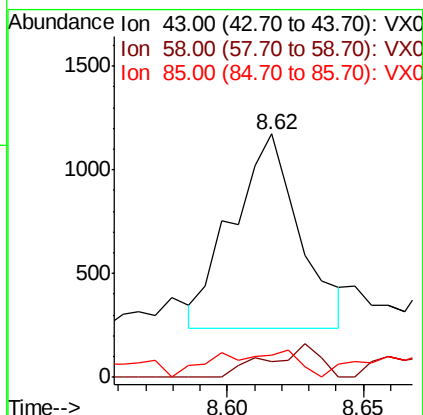
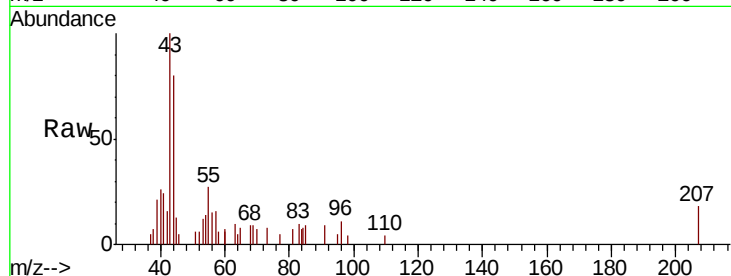




#58
4-Methyl-2-Pentanone
Concen: 0.429 ug/l
RT: 8.62 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VX018952.D
Acq: 15 Oct 2020 22:54

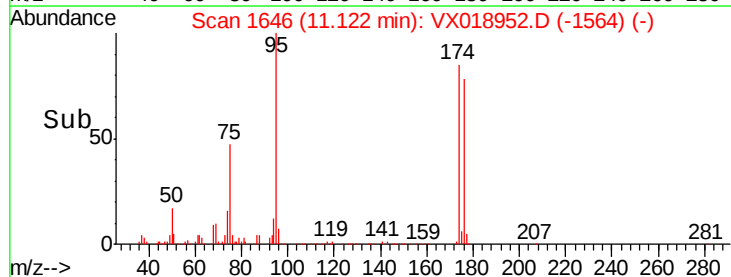
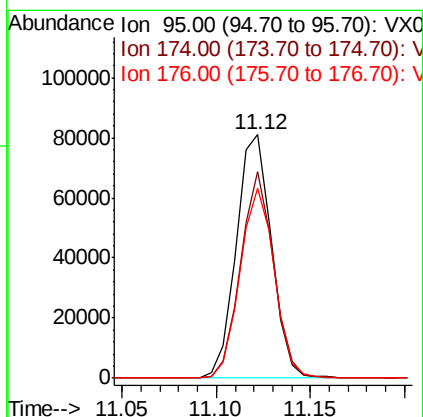
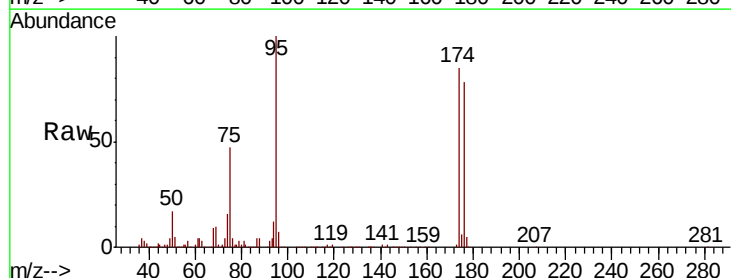
Instrument :
MSVOA_X
ClientSampled :
14B-4

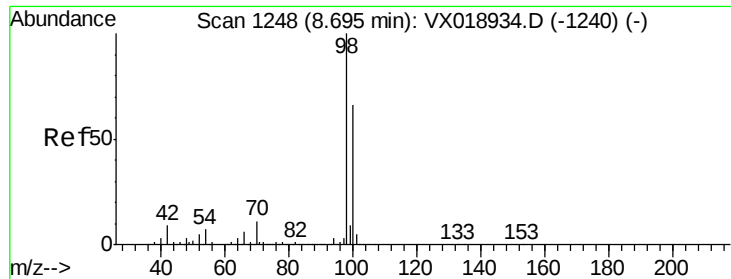
Tot Ion: 43 Resp: 1596
Ion Ratio Lower Upper
43 100
58 7.8 35.4 53.2#
85 9.0 18.0 27.0#



#60
4-Bromofluorobenzene
Concen: 28.928 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018952.D
Acq: 15 Oct 2020 22:54

Tgt Ion: 95 Resp: 105043
Ion Ratio Lower Upper
95 100
174 79.7 67.0 100.4
176 76.1 64.5 96.7





#63

Toluene-d8

Concen: 30.462 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018952.D

Acq: 15 Oct 2020 22:54

Instrument :

MSVOA_X

ClientSampleId :

14B-4

Tot Ion: 98 Resp: 310371

Ion Ratio Lower Upper

98 100

100 65.6 53.2 79.8

