

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018950.D
 Acq On : 15 Oct 2020 22:09
 Operator : JC/SP
 Sample : L4386-02 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-2

Quant Time: Oct 16 01:46:11 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	4.98	128	42734	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	239771	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	206380	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	87392	32.06	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.87%
60) 4-Bromofluorobenzene	11.12	95	94753	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	8.70	98	277791	30.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.70%

Target Compounds

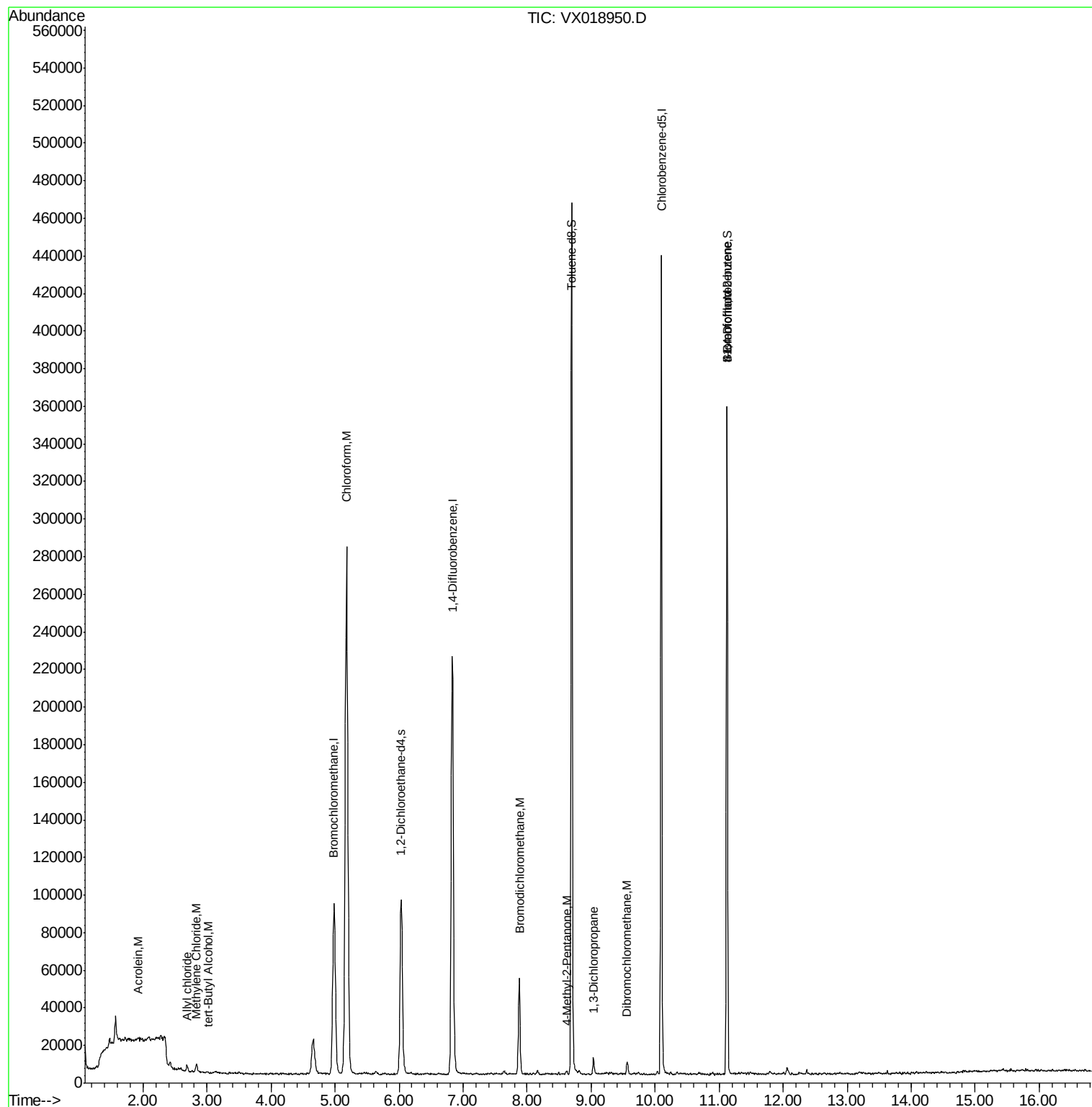
					Ovalue
13) Acrolein	1.92	56	339	0.707 ug/l	88
17) Allyl chloride	2.68	41	3097	0.933 ug/l #	35
18) Methylene Chloride	2.84	84	2070	0.803 ug/l	95
23) tert-Butyl Alcohol	3.01	59	540	0.831 ug/l #	92
25) Chloroform	5.18	83	342805	76.700 ug/l	97
41) Bromodichloromethane	7.88	83	33258	8.827 ug/l	98
52) 1,3-Dichloropropane	9.04	76	1335	0.305 ug/l	45
53) Dibromochloromethane	9.57	129	1986	0.629 ug/l	91
56) Bromoform	11.12	173	636	0.261 ug/l #	1
58) 4-Methyl-2-Pentanone	8.62	43	1678	0.510 ug/l #	54
77) t-1,4-Dichloro-2-butene	11.12	75	45689	30.055 ug/l #	18

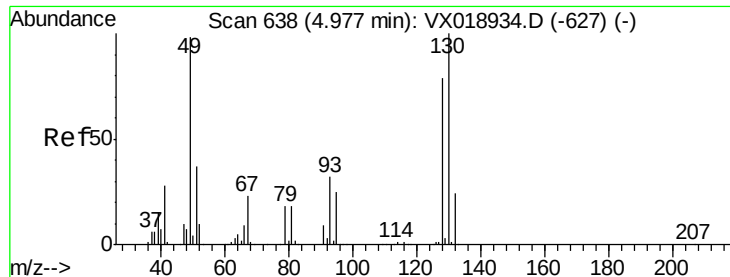
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_X
ClientSampleId :
14B-2

Quant Time: Oct 16 01:46:11 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: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

Instrument :

MSVOA_X

ClientSampled :

14B-2

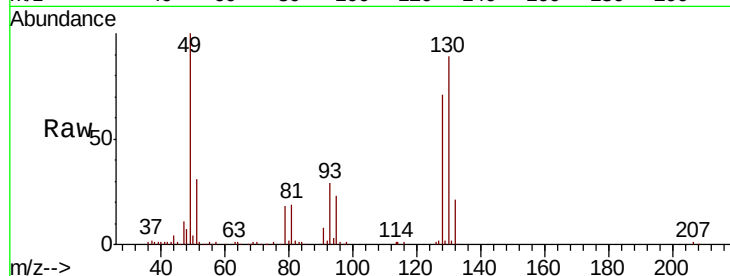
Tot Ion:128 Resp: 42734

Ion Ratio Lower Upper

128 100

49 138.3 0.0 330.5

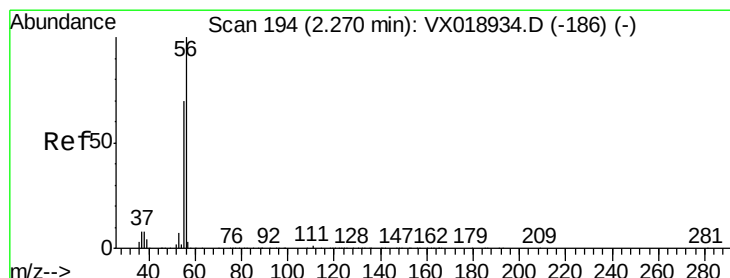
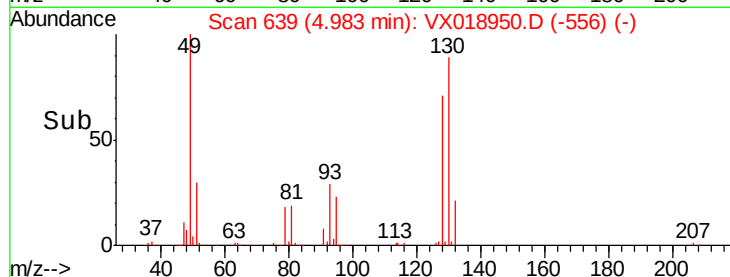
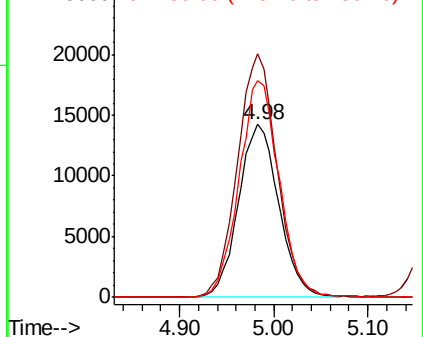
130 124.3 0.0 323.8



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



#13

Acrolein

Concen: 0.707 ug/l

RT: 1.92 min Scan# 137

Delta R.T. -0.35 min

Lab File: VX018950.D

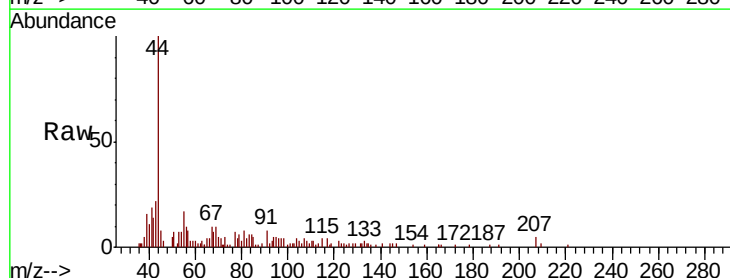
Acq: 15 Oct 2020 22:09

Tgt Ion: 56 Resp: 339

Ion Ratio Lower Upper

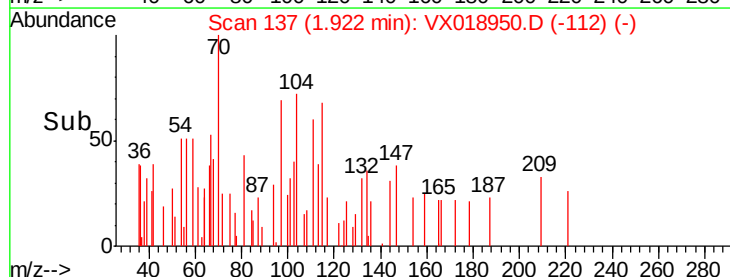
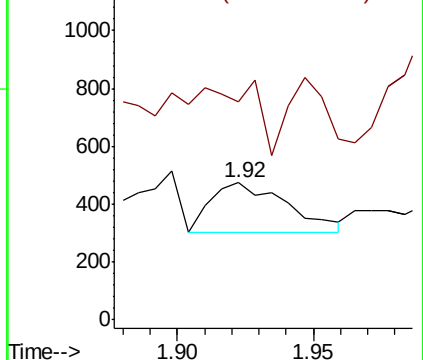
56 100

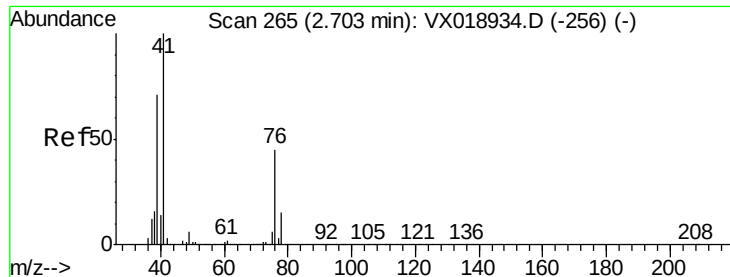
55 81.1 57.1 85.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

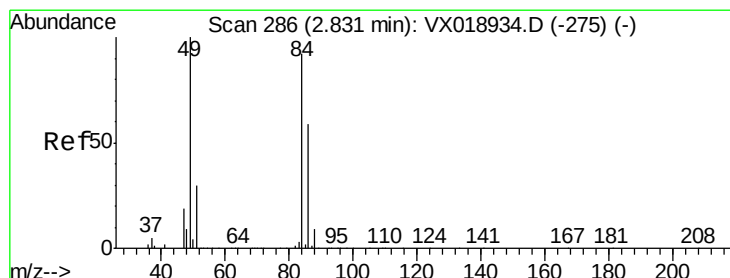
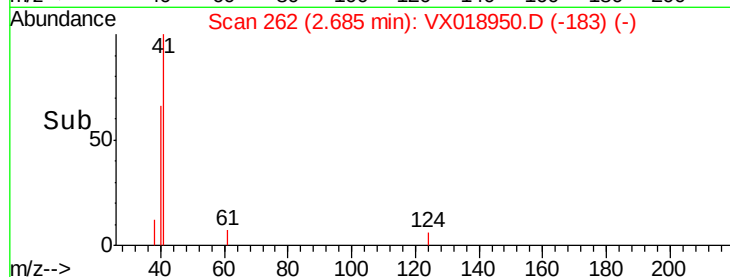
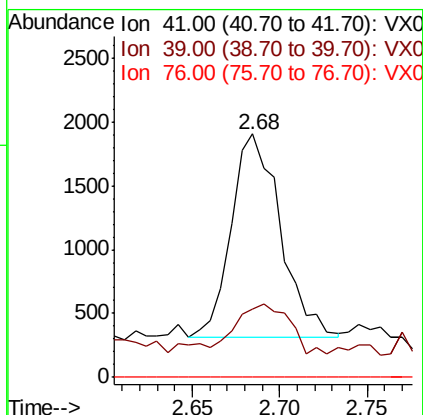
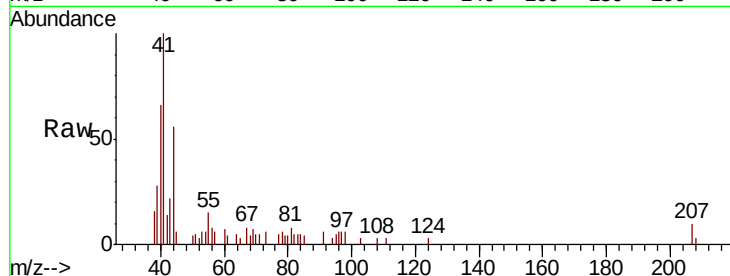




#17
Allvl chloride
Concen: 0.933 ug/l
RT: 2.68 min Scan# 262
Delta R.T. -0.02 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

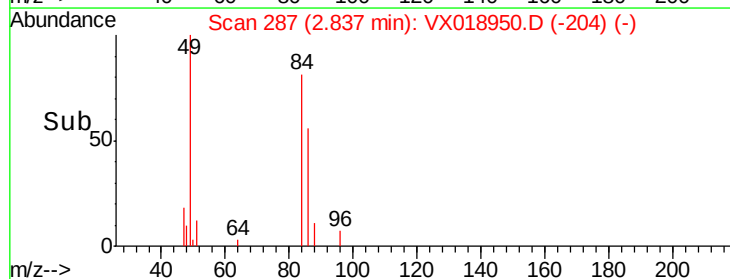
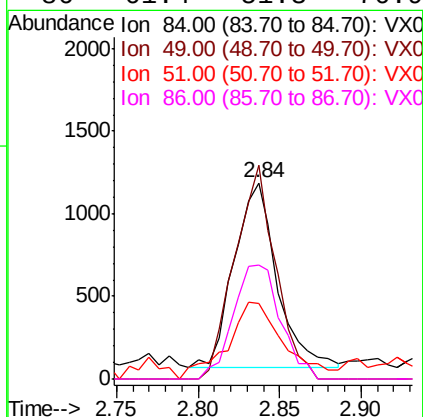
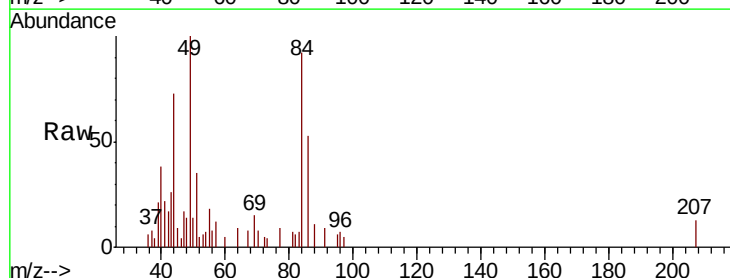
Instrument :
MSVOA_X
ClientSampleId :
14B-2

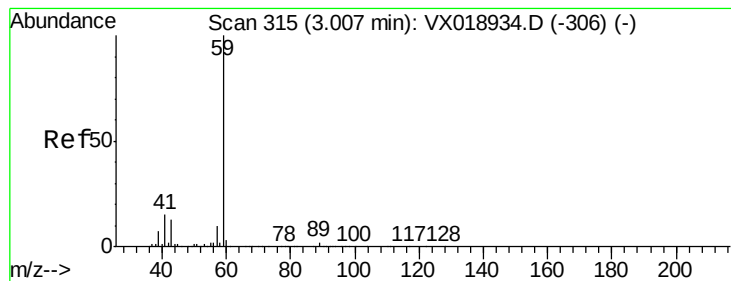
Tot Ion: 41 Resp: 3097
Ion Ratio Lower Upper
41 100
39 18.8 35.4 106.3#
76 0.0 22.4 67.2#



#18
Methylene Chloride
Concen: 0.803 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

Tgt Ion: 84 Resp: 2070
Ion Ratio Lower Upper
84 100
49 115.3 87.2 130.8
51 35.9 25.9 38.9
86 61.4 51.3 76.9





#23

tert-Butyl Alcohol

Concen: 0.831 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

Instrument :

MSVOA_X

ClientSampled :

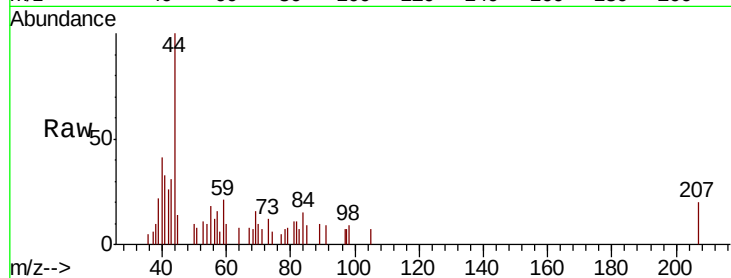
14B-2

Tot Ion: 59 Resp: 540

Ion Ratio Lower Upper

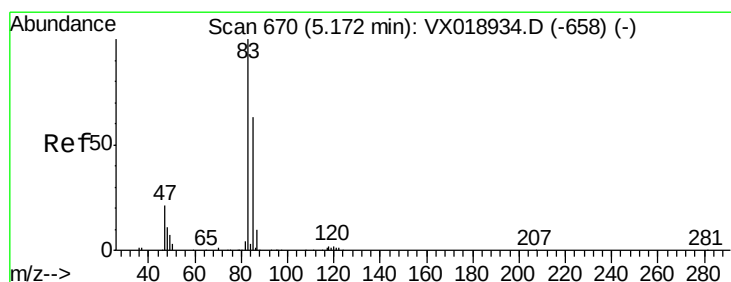
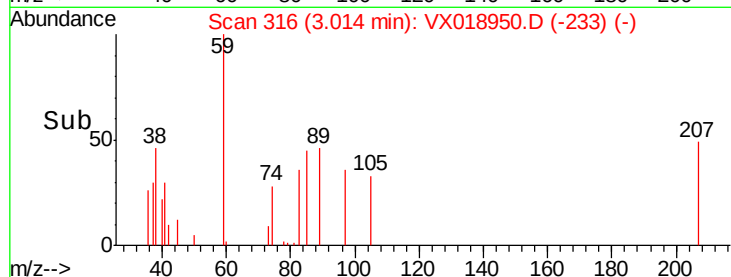
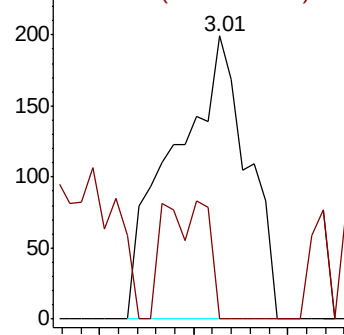
59 100

52 10.9 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#25

Chloroform

Concen: 76.700 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX018950.D

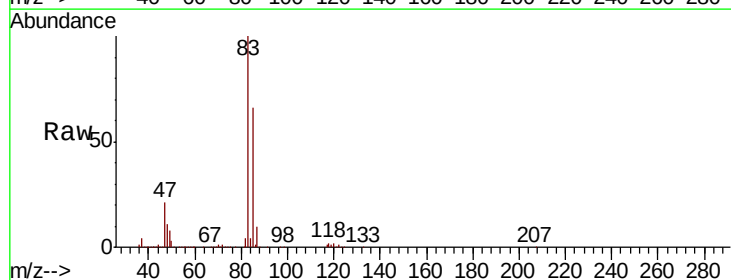
Acq: 15 Oct 2020 22:09

Tgt Ion: 83 Resp: 342805

Ion Ratio Lower Upper

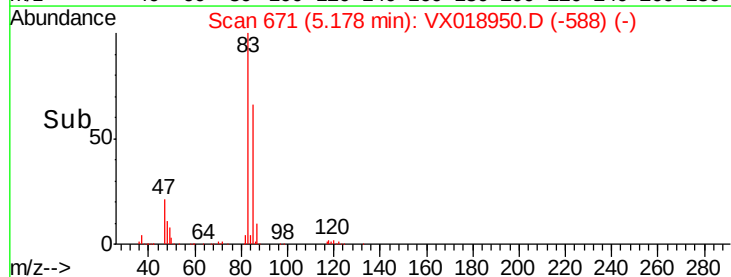
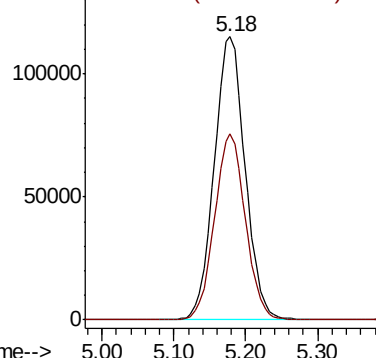
83 100

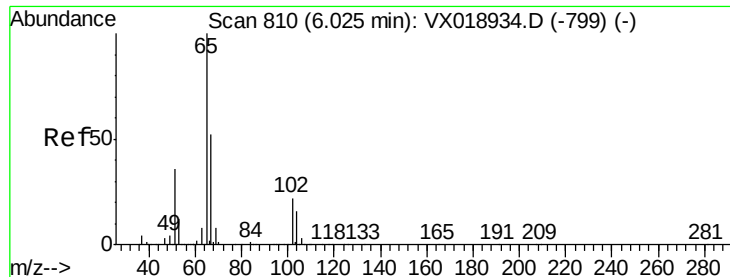
85 65.5 50.3 75.5



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 32.058 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

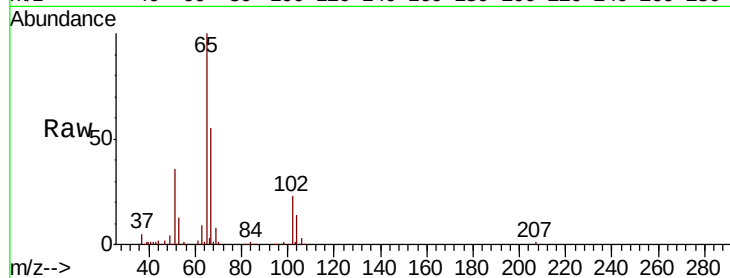
14B-2

Tot Ion: 65 Resp: 87392

Ion Ratio Lower Upper

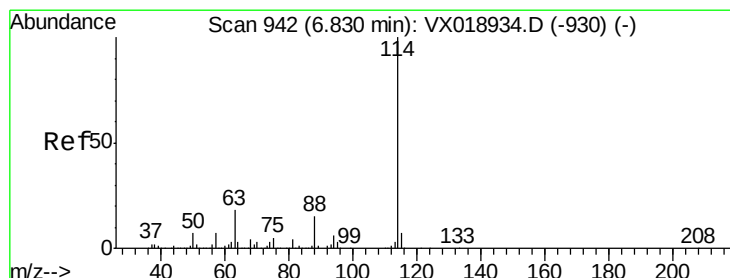
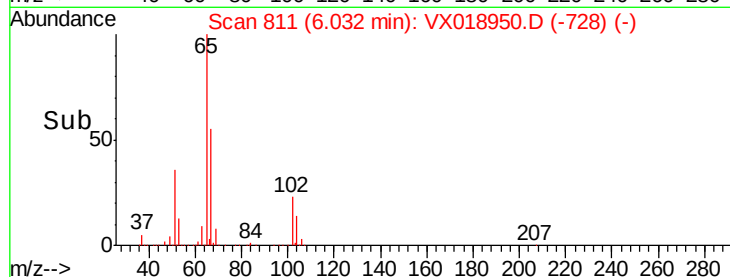
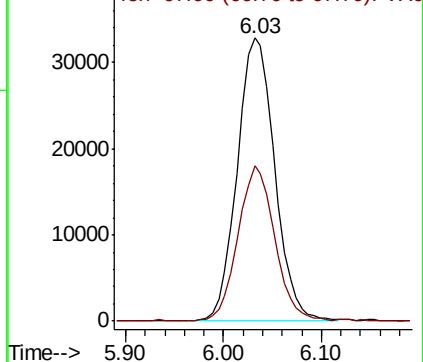
65 100

67 53.3 42.1 63.1



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

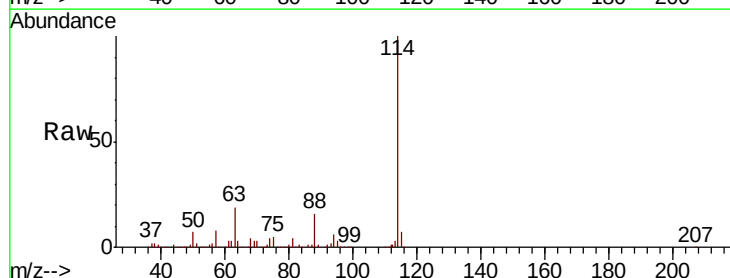
Tgt Ion: 114 Resp: 239771

Ion Ratio Lower Upper

114 100

63 18.6 14.6 21.8

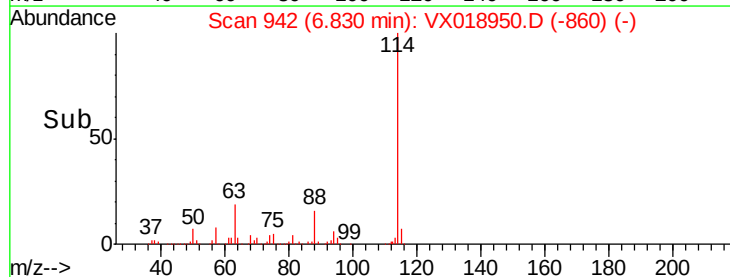
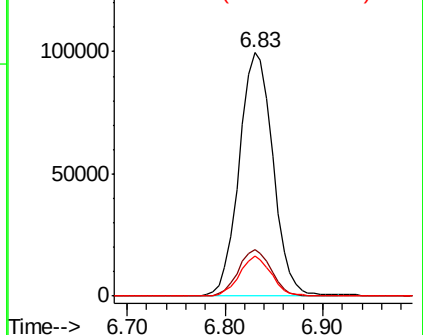
88 15.7 12.3 18.5

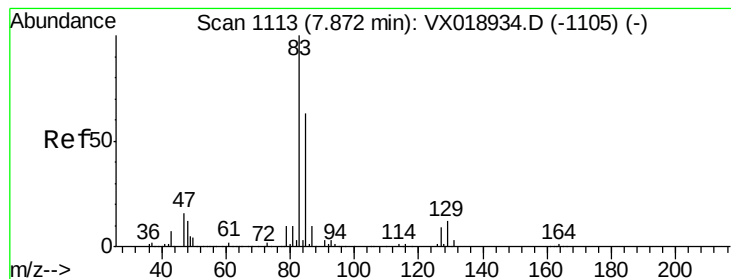


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





#41

Bromodichloromethane

Concen: 8.827 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

14B-2

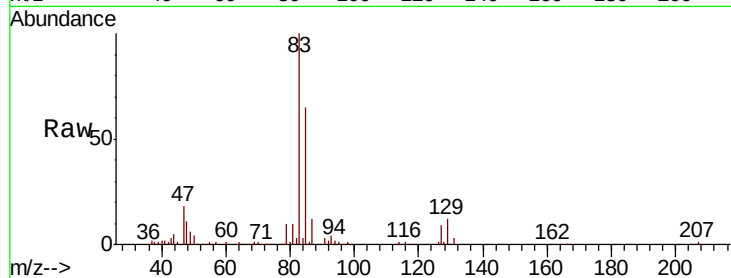
Tot Ion: 83 Resp: 33258

Ion Ratio Lower Upper

83 100

85 65.1 50.4 75.6

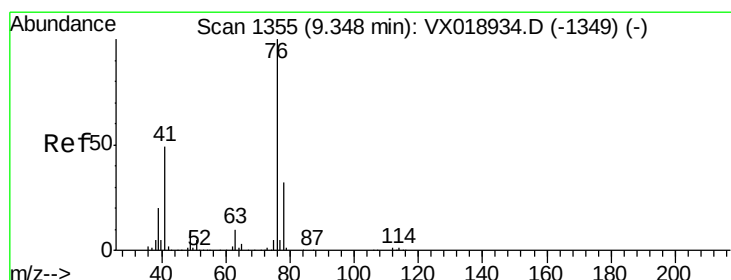
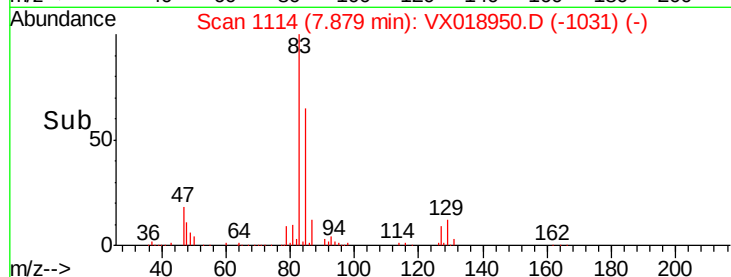
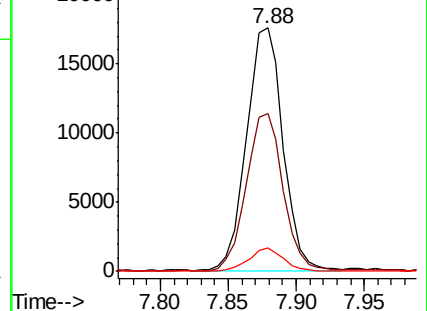
127 9.4 7.5 11.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): VX0



#52

1,3-Dichloropropane

Concen: 0.305 ug/l

RT: 9.04 min Scan# 1304

Delta R.T. -0.31 min

Lab File: VX018950.D

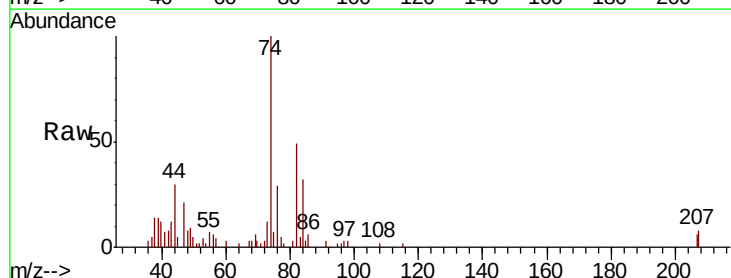
Acq: 15 Oct 2020 22:09

Tgt Ion: 76 Resp: 1335

Ion Ratio Lower Upper

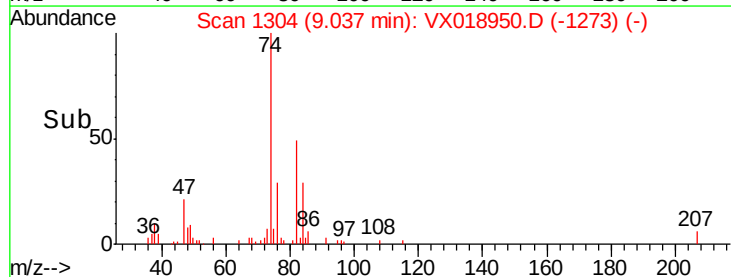
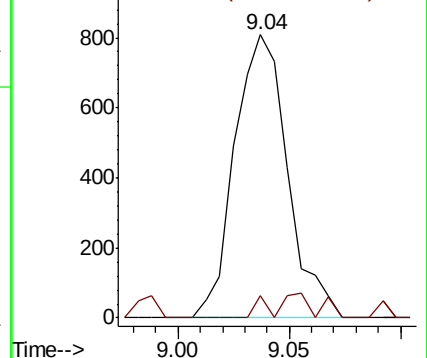
76 100

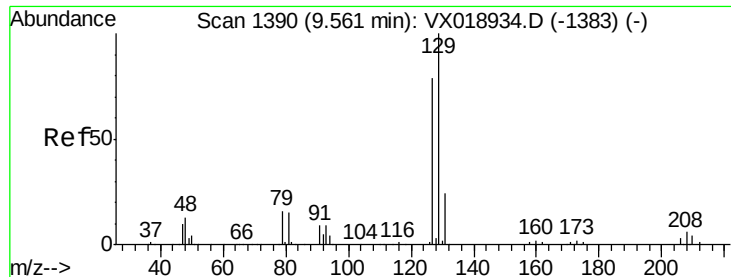
78 1.7 0.0 65.2



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#53

Dibromochloromethane

Concen: 0.629 ug/l

RT: 9.57 min Scan# 1391

Delta R.T. 0.01 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

Instrument :

MSVOA_X

ClientSampleId :

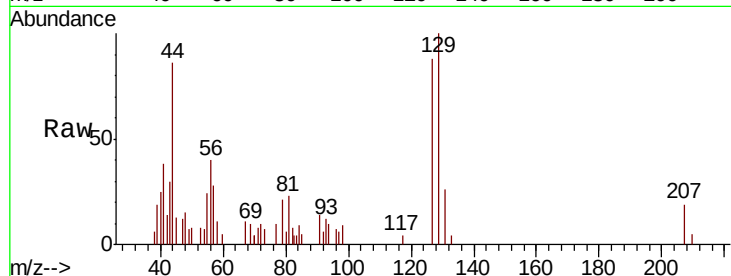
14B-2

Tot Ion:129 Resp: 1986

Ion Ratio Lower Upper

129 100

127 85.1 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.57

1500

1000

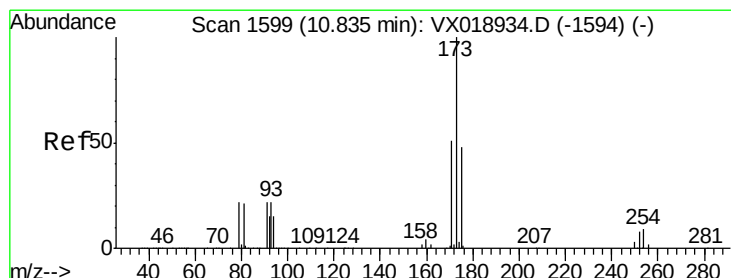
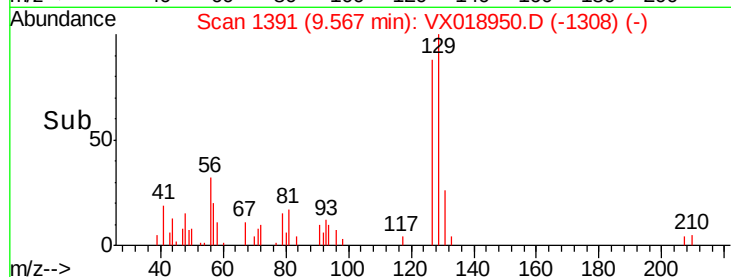
500

0

Time-->

9.55

9.60



#56

Bromoform

Concen: 0.261 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.29 min

Lab File: VX018950.D

Acq: 15 Oct 2020 22:09

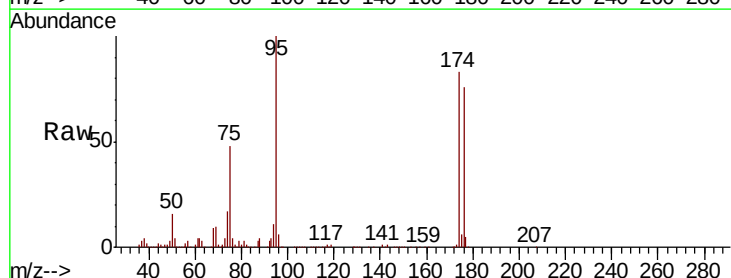
Tgt Ion:173 Resp: 636

Ion Ratio Lower Upper

173 100

175 851.7 39.2 58.8#

254 0.0 7.5 11.3#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

6000

5000

4000

3000

2000

1000

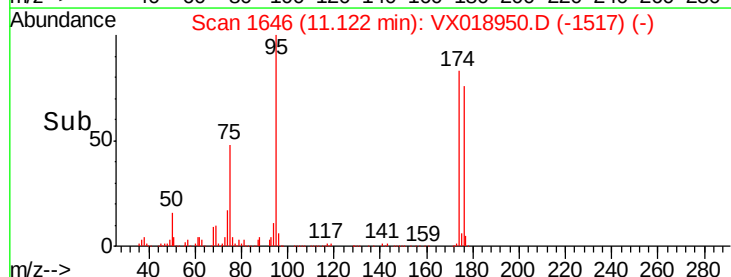
0

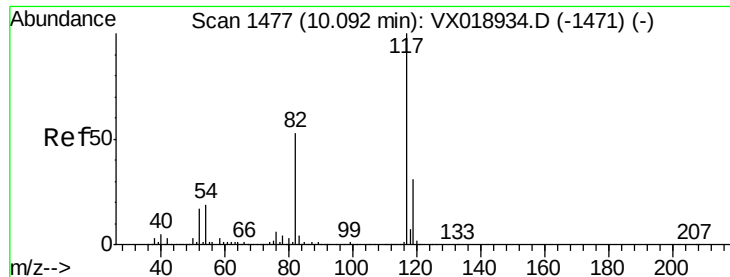
Time-->

11.10

11.12

11.14

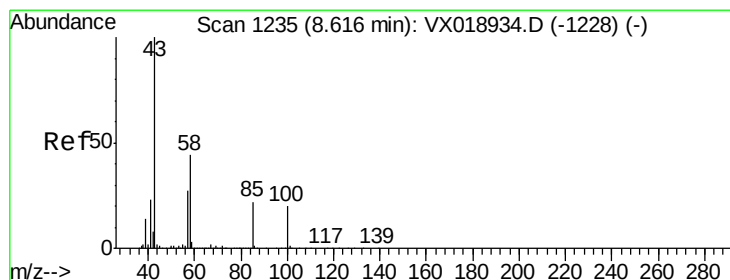
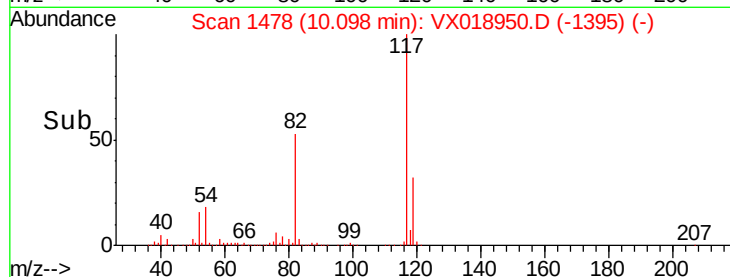
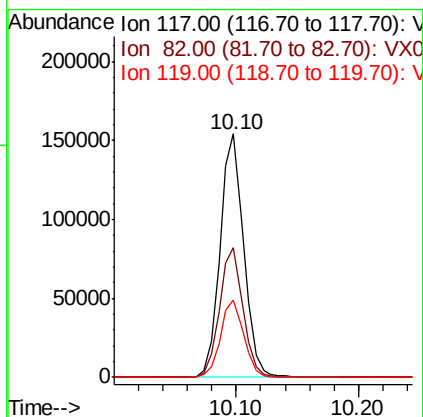
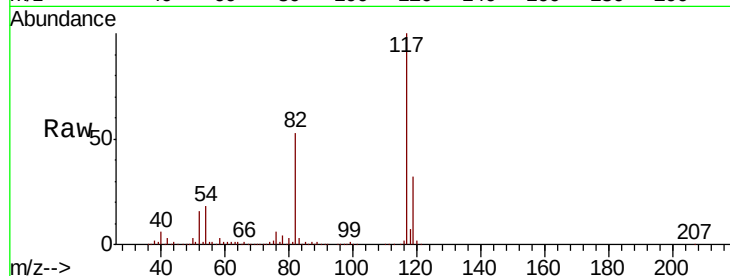




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

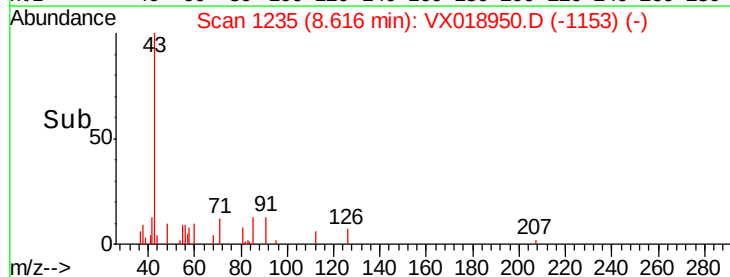
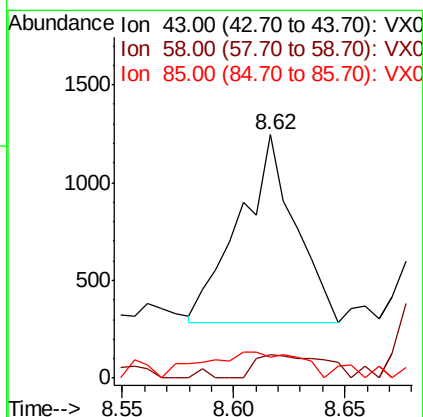
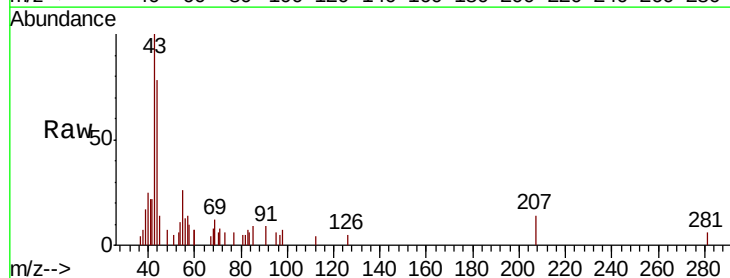
Instrument :
MSVOA_X
ClientSampled :
14B-2

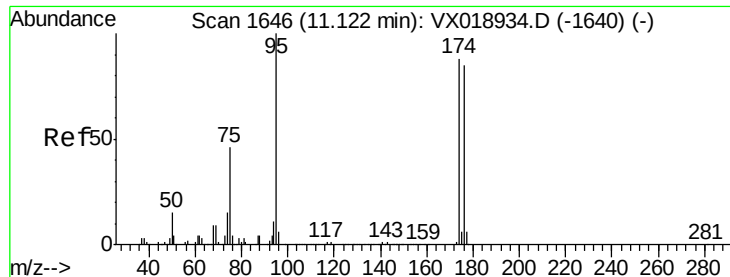
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	41.6	62.4
119	31.4	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 0.510 ug/l
RT: 8.62 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

Tgt Ion	Ratio	Lower	Upper
43	100		
58	9.4	35.4	53.2#
85	8.2	18.0	27.0#

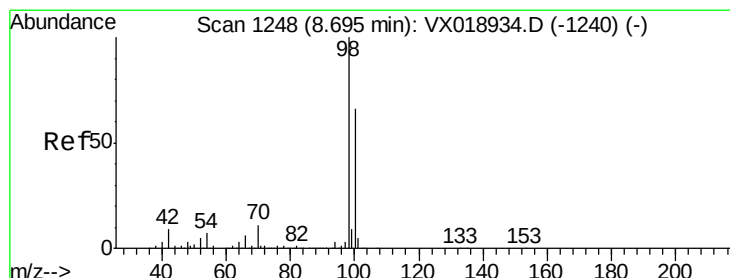
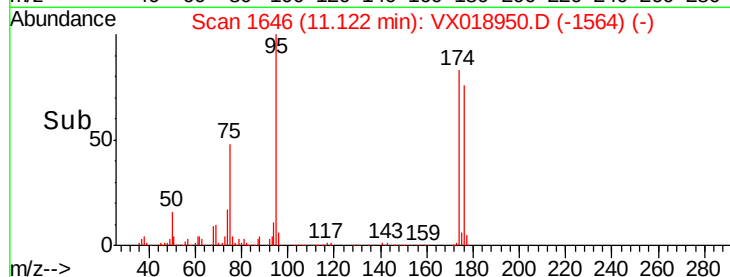
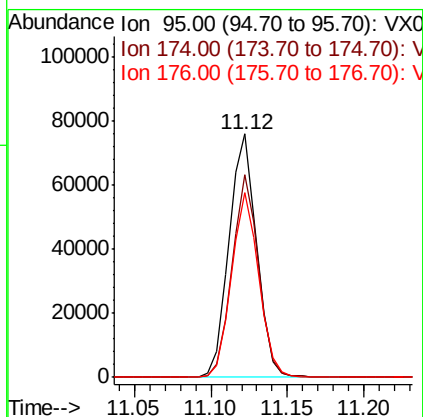
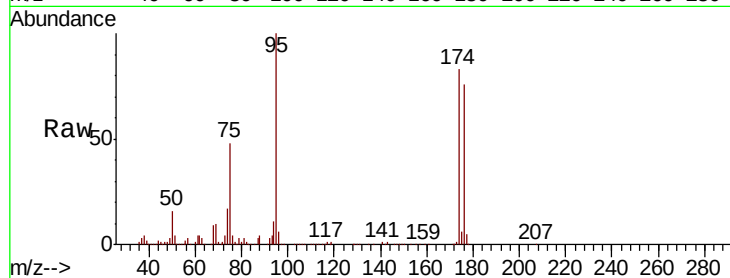




#60
4-Bromofluorobenzene
Concen: 29.490 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

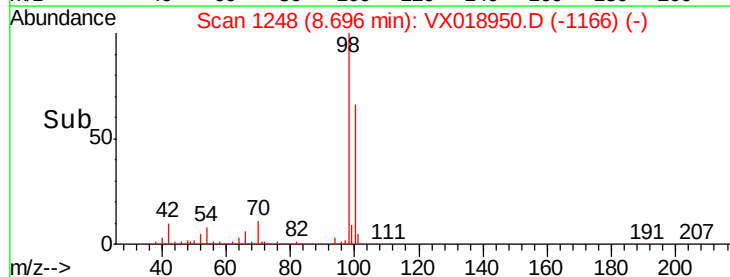
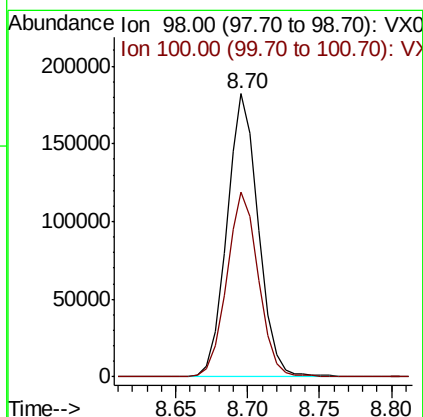
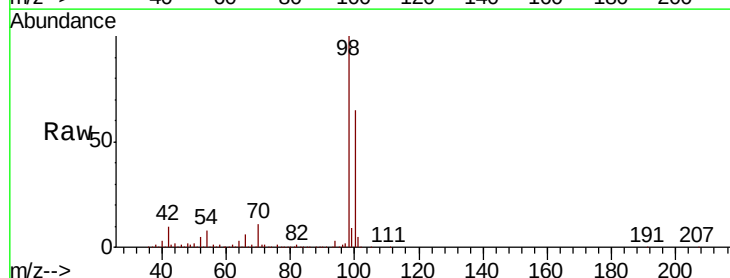
Instrument :
MSVOA_X
ClientSampleId :
14B-2

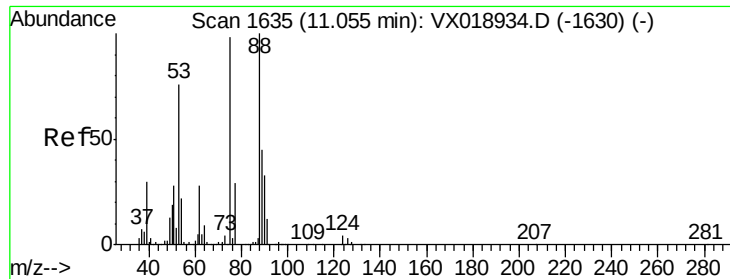
Tot Ion: 95 Resp: 94753
Ion Ratio Lower Upper
95 100
174 80.2 67.0 100.4
176 74.9 64.5 96.7



#63
Toluene-d8
Concen: 30.812 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018950.D
Acq: 15 Oct 2020 22:09

Tgt Ion: 98 Resp: 277791
Ion Ratio Lower Upper
98 100
100 66.2 53.2 79.8





#77
 t-1,4-Dichloro-2-butene
 Concen: 30.055 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX018950.D
 Acq: 15 Oct 2020 22:09

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-2

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	38.8	116.3#
89	0.0	22.9	68.8#

