

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101520\
 Data File : VX018947.D
 Acq On : 15 Oct 2020 21:00
 Operator : JC/SP
 Sample : L4371-03 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

Quant Time: Oct 16 01:45:33 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	45374	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	255144	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	220936	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	93211	32.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.33%
60) 4-Bromofluorobenzene	11.12	95	99920	29.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.83%
63) Toluene-d8	8.70	98	303212	31.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.73%

Target Compounds

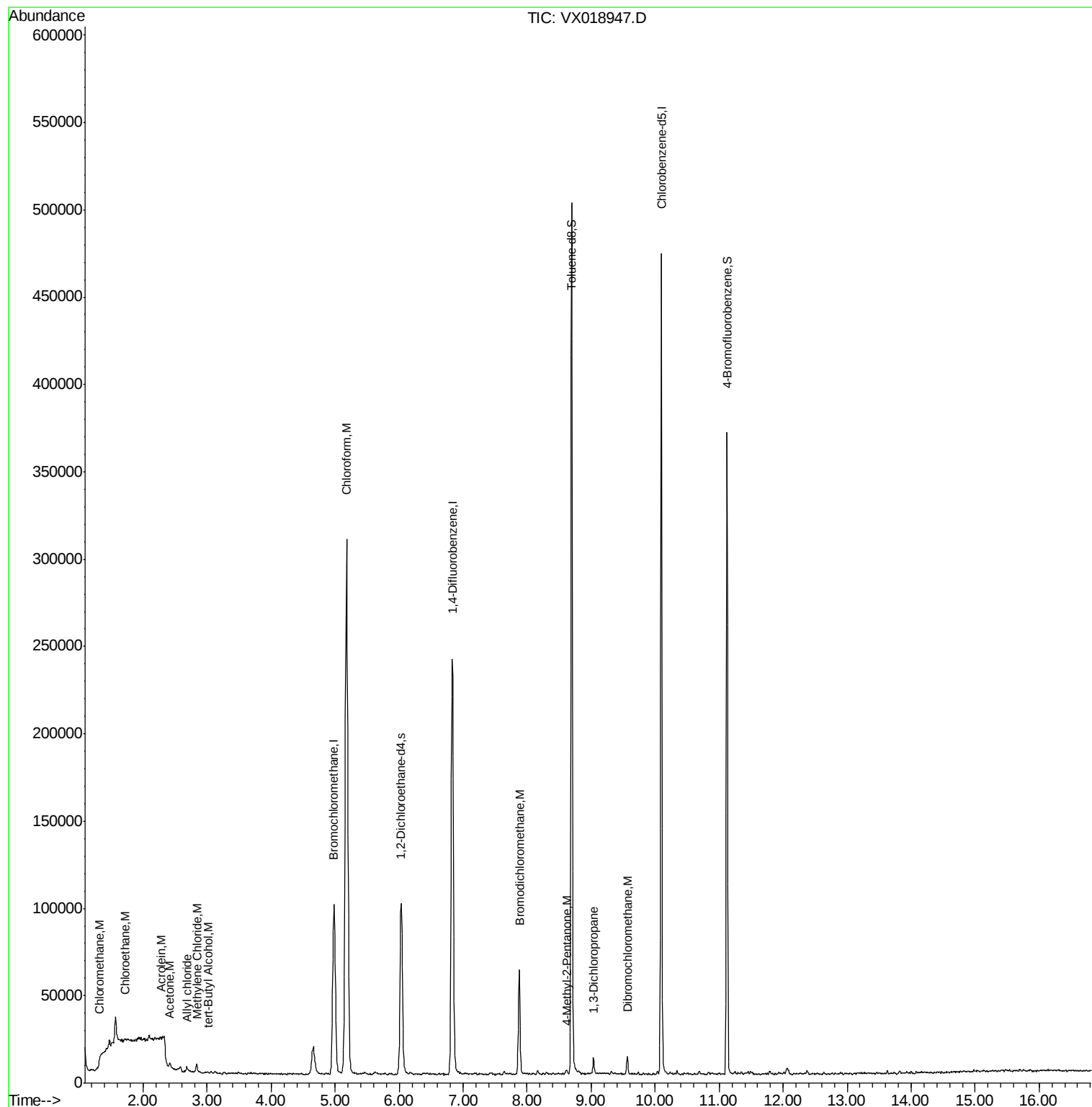
					Ovalue
3) Chloromethane	1.31	50	551	0.226 ug/l #	68
6) Chloroethane	1.72	64	449	0.218 ug/l #	48
13) Acrolein	2.28	56	1108	2.175 ug/l	88
15) Acetone	2.42	58	800	1.918 ug/l	80
17) Allyl chloride	2.69	41	3338	0.947 ug/l #	40
18) Methylene Chloride	2.84	84	2071	0.757 ug/l #	87
23) tert-Butyl Alcohol	3.01	59	371	0.538 ug/l #	86
25) Chloroform	5.18	83	371175	78.215 ug/l	95
41) Bromodichloromethane	7.87	83	38442	9.589 ug/l	99
52) 1,3-Dichloropropane	9.04	76	1394	0.299 ug/l	47
53) Dibromochloromethane	9.57	129	3326	0.989 ug/l	97
58) 4-Methyl-2-Pentanone	8.61	43	1891	0.536 ug/l #	62

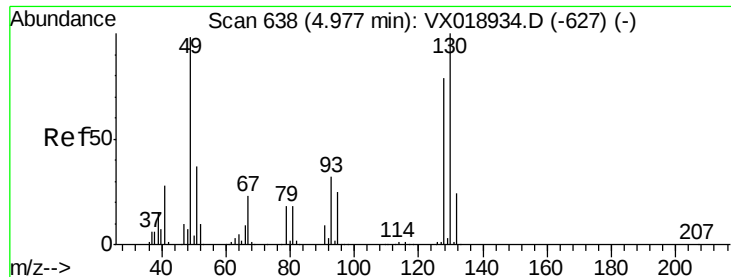
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :
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Quant Time: Oct 16 01:45:33 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: VX018947.D

Acq: 15 Oct 2020 21:00

Instrument :

MSVOA_X

ClientSampled :

14B-3

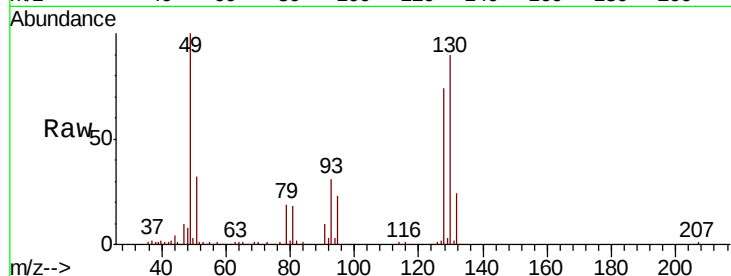
Tot Ion:128 Resp: 45374

Ion Ratio Lower Upper

128 100

49 136.7 0.0 330.5

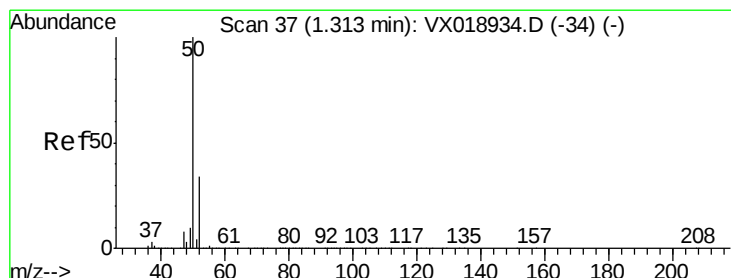
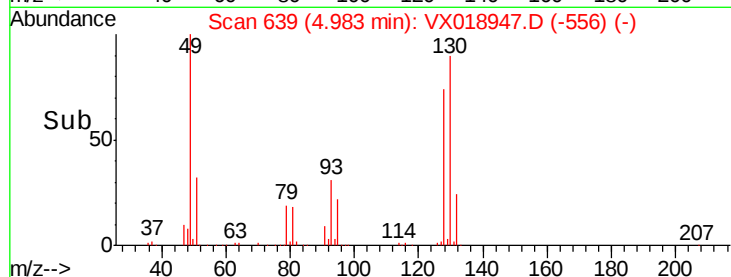
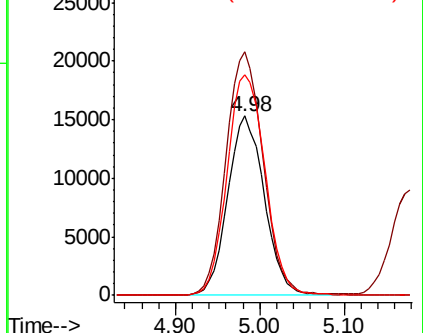
130 127.4 0.0 323.8



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



#3

Chloromethane

Concen: 0.226 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018947.D

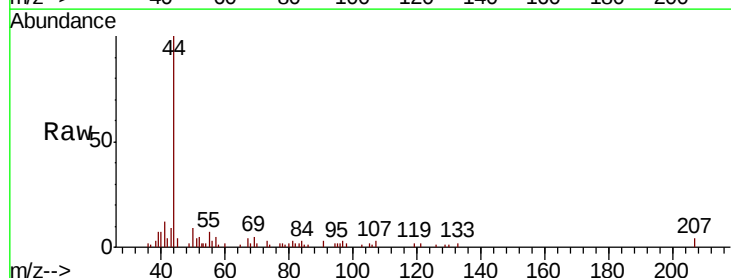
Acq: 15 Oct 2020 21:00

Tgt Ion: 50 Resp: 551

Ion Ratio Lower Upper

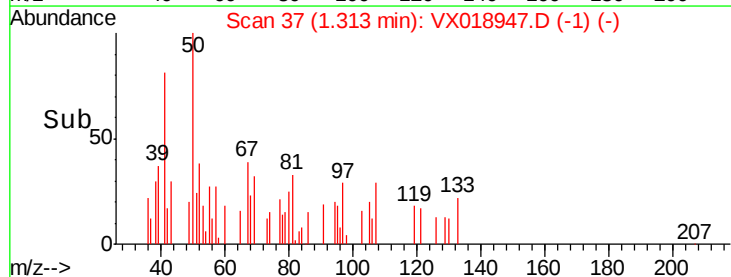
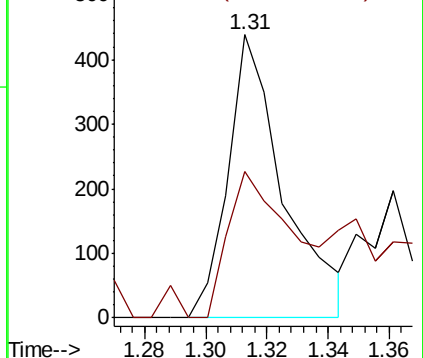
50 100

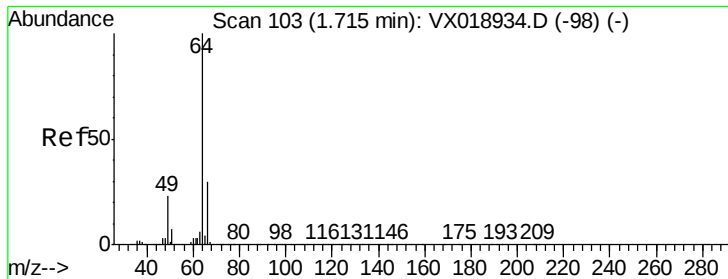
52 51.8 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 0.218 ug/l

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX018947.D

Acq: 15 Oct 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

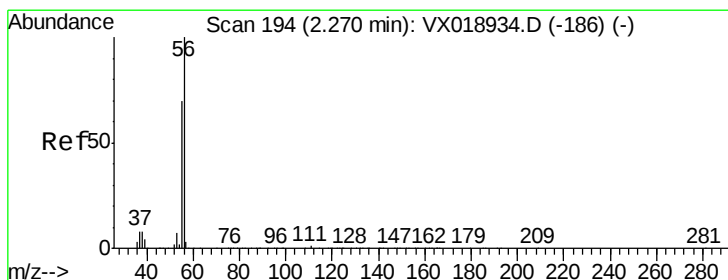
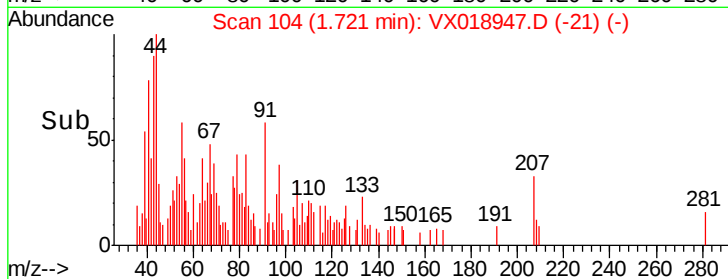
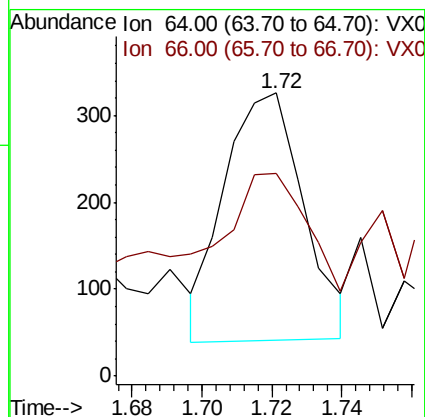
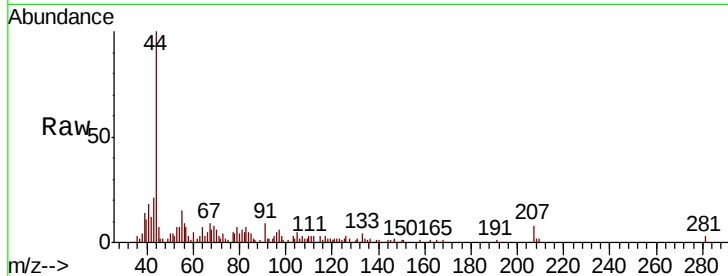
14B-3

Tot Ion: 64 Resp: 449

Ion Ratio Lower Upper

64 100

66 59.1 24.5 36.7#



#13

Acrolein

Concen: 2.175 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX018947.D

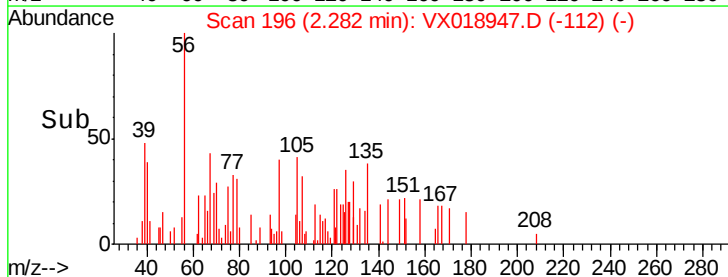
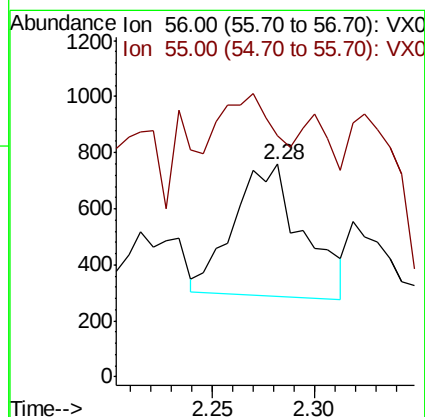
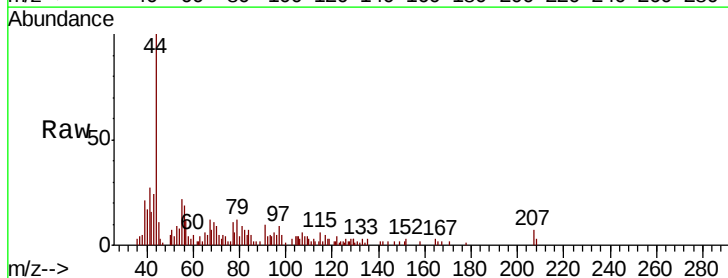
Acq: 15 Oct 2020 21:00

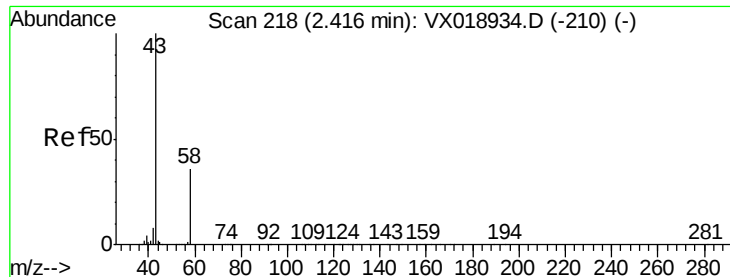
Tgt Ion: 56 Resp: 1108

Ion Ratio Lower Upper

56 100

55 81.6 57.1 85.7





#15

Acetone

Concen: 1.918 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX018947.D

Acq: 15 Oct 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

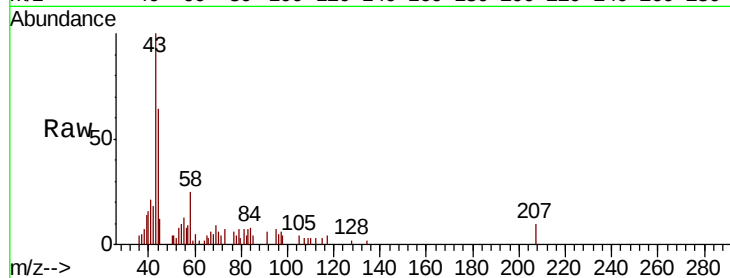
14B-3

Tot Ion: 58 Resp: 800

Ion Ratio Lower Upper

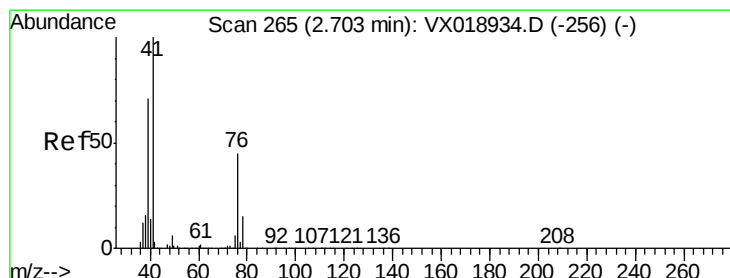
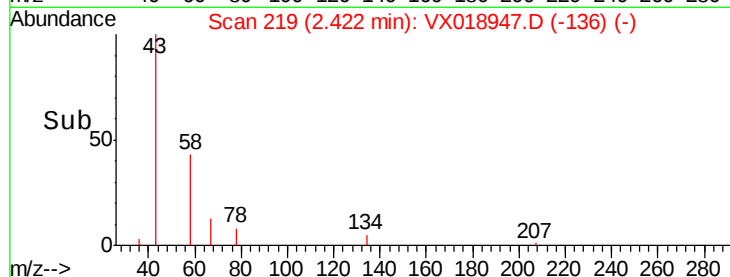
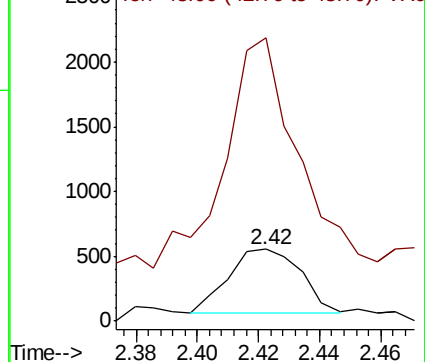
58 100

43 317.1 223.8 335.8



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#17

Allyl chloride

Concen: 0.947 ug/l

RT: 2.69 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX018947.D

Acq: 15 Oct 2020 21:00

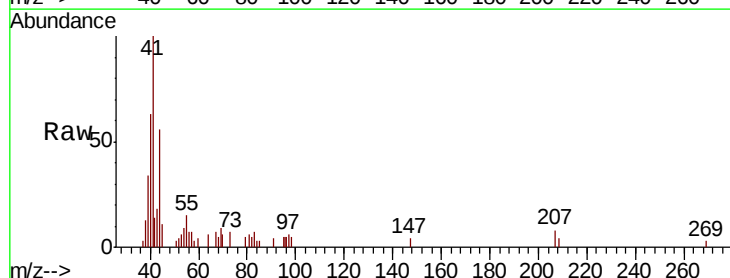
Tgt Ion: 41 Resp: 3338

Ion Ratio Lower Upper

41 100

39 26.5 35.4 106.3#

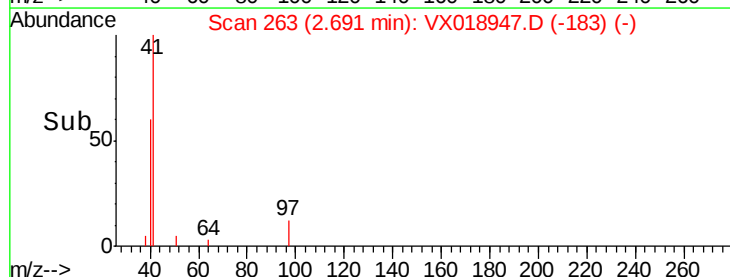
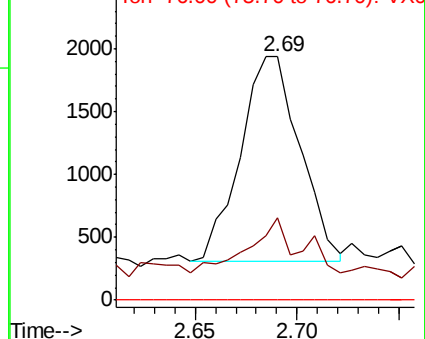
76 0.0 22.4 67.2#

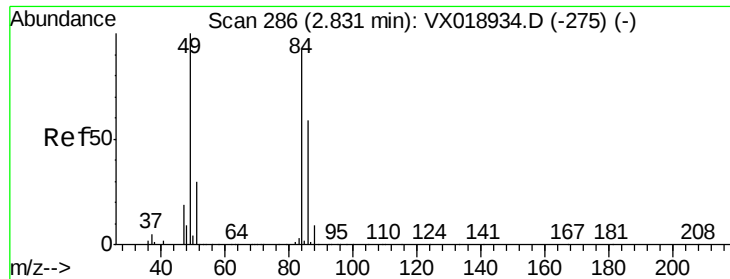


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 76.00 (75.70 to 76.70): VX0

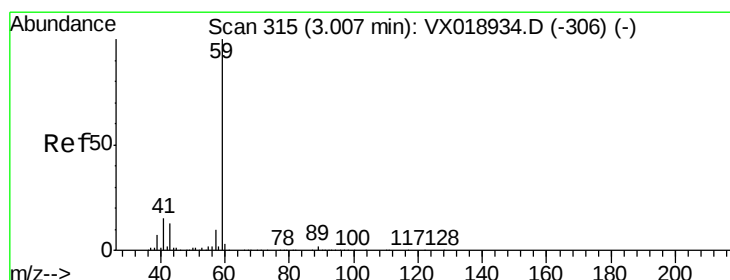
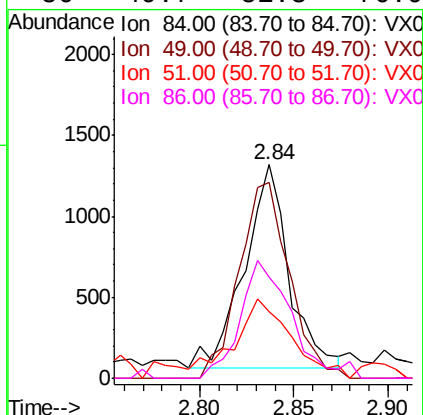
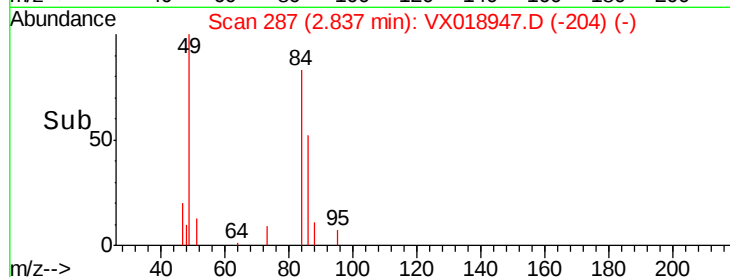
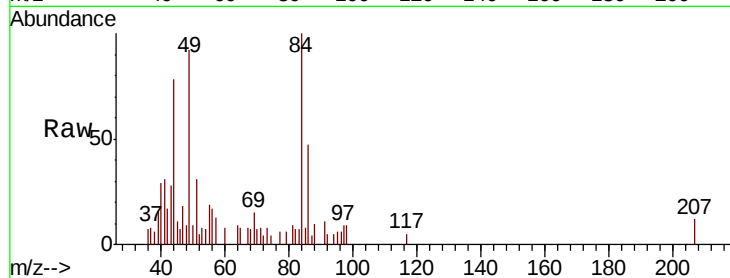




#18
Methvlene Chloride
Concen: 0.757 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

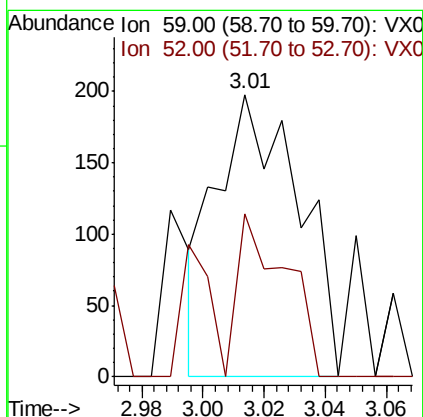
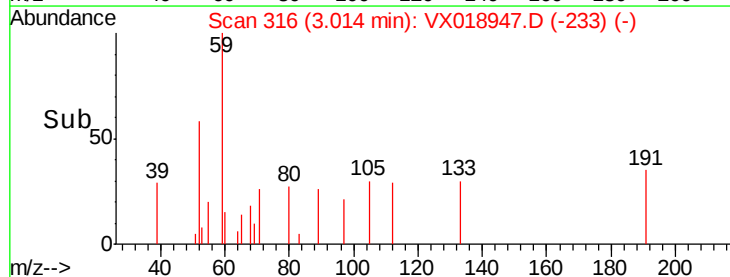
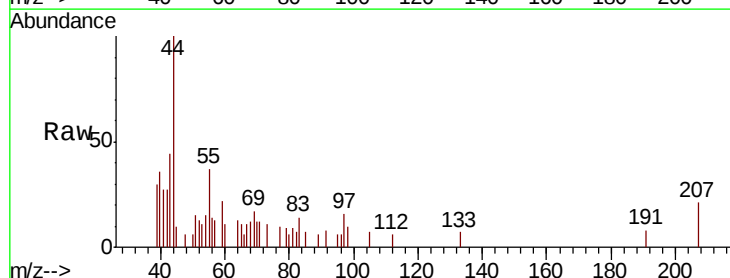
Instrument :
MSVOA_X
ClientSampled :
14B-3

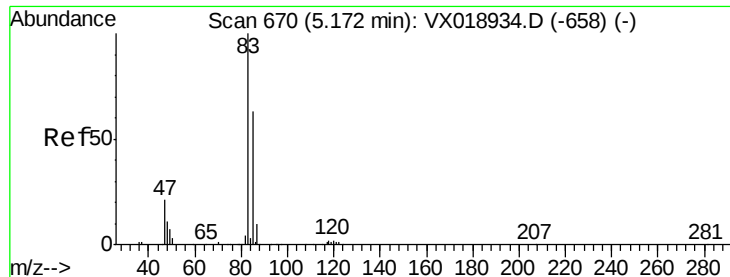
Tot Ion: 84 Resp: 2071
Ion Ratio Lower Upper
84 100
49 96.2 87.2 130.8
51 28.4 25.9 38.9
86 49.7 51.3 76.9#



#23
tert-Butyl Alcohol
Concen: 0.538 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

Tgt Ion: 59 Resp: 371
Ion Ratio Lower Upper
59 100
52 18.6 0.2 0.2#





#25

Chloroform

Concen: 78.215 ug/l

RT: 5.18 min Scan# 671

Delta R.T. 0.01 min

Lab File: VX018947.D

Acq: 15 Oct 2020 21:00

Instrument :

MSVOA_X

ClientSampleId :

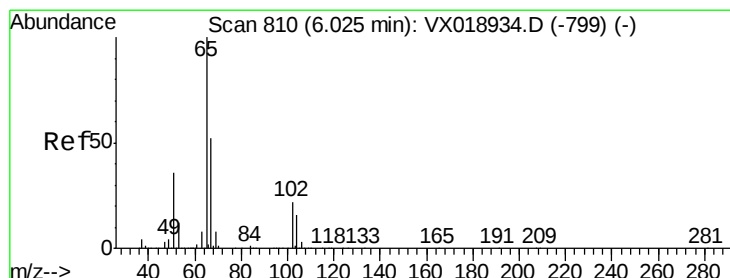
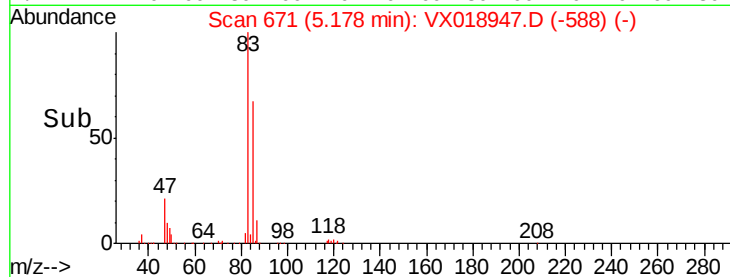
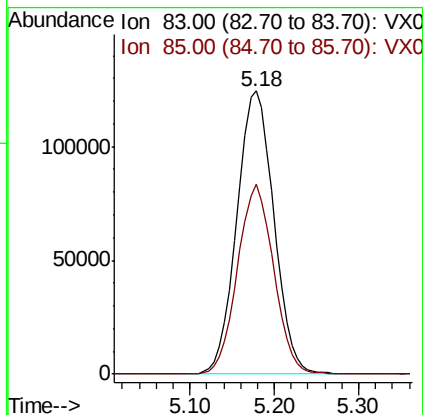
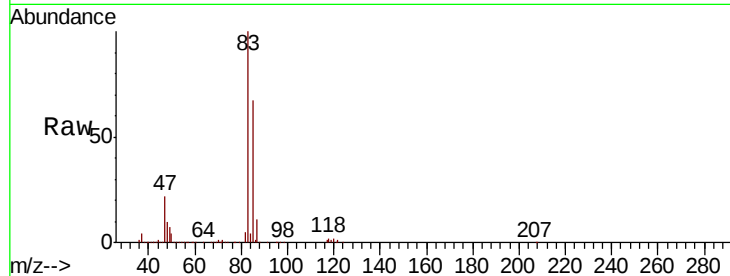
14B-3

Tot Ion: 83 Resp: 371175

Ion Ratio Lower Upper

83 100

85 67.0 50.3 75.5



#27

1,2-Dichloroethane-d4

Concen: 32.204 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.01 min

Lab File: VX018947.D

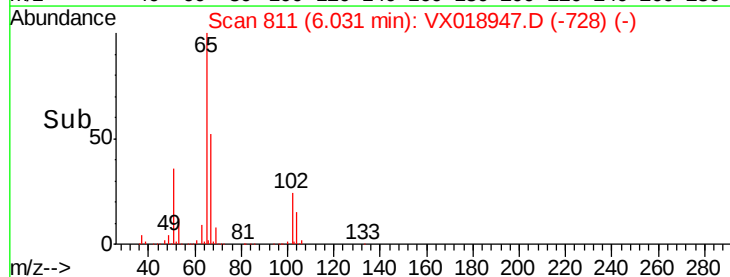
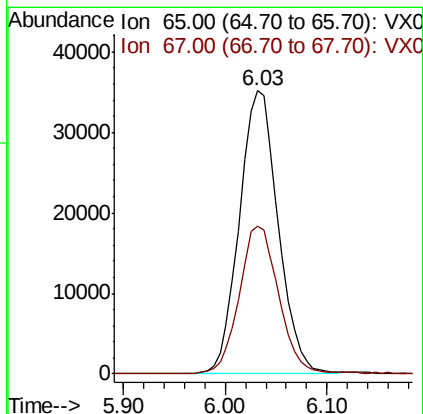
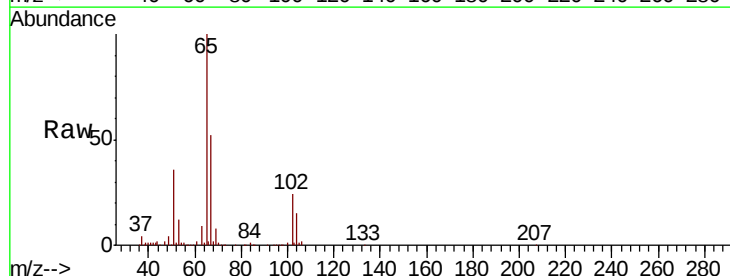
Acq: 15 Oct 2020 21:00

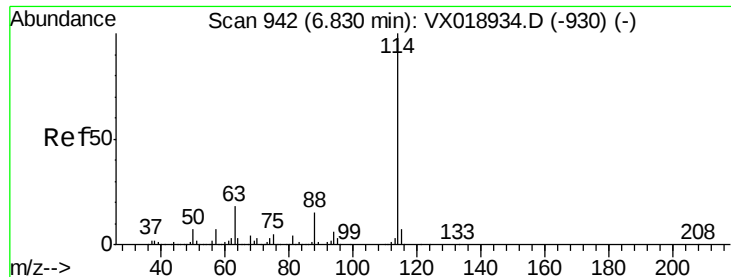
Tgt Ion: 65 Resp: 93211

Ion Ratio Lower Upper

65 100

67 52.1 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: VX018947.D

Acq: 15 Oct 2020 21:00

Instrument :

MSVOA_X

ClientSampled :

14B-3

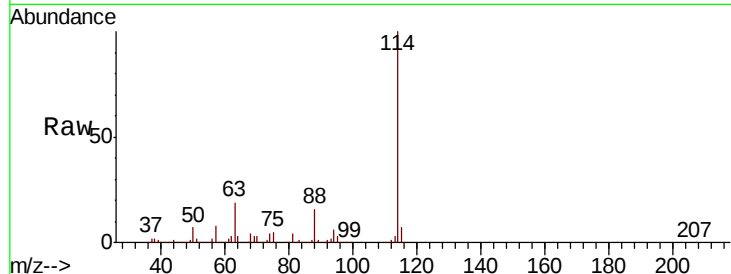
Tot Ion:114 Resp: 255144

Ion Ratio Lower Upper

114 100

63 19.0 14.6 21.8

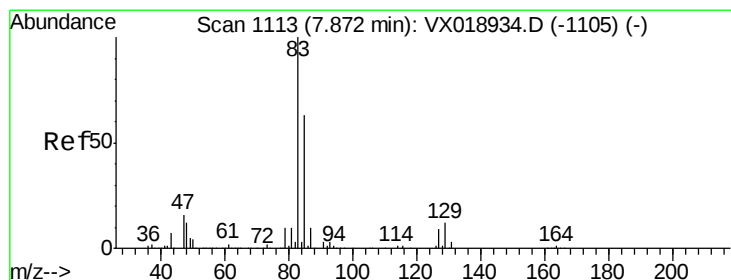
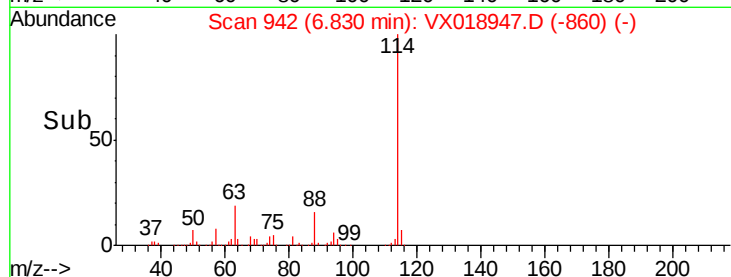
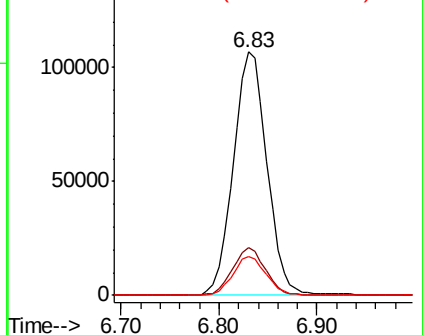
88 15.9 12.3 18.5



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: 9.589 ug/l

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX018947.D

Acq: 15 Oct 2020 21:00

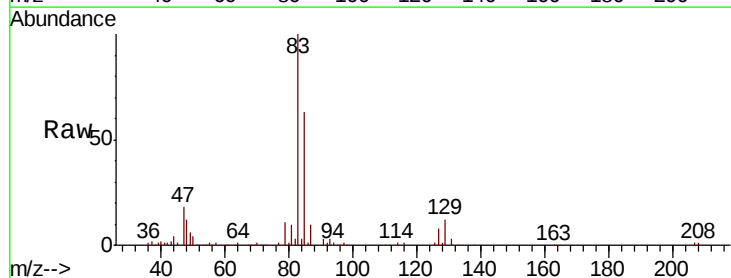
Tgt Ion: 83 Resp: 38442

Ion Ratio Lower Upper

83 100

85 62.7 50.4 75.6

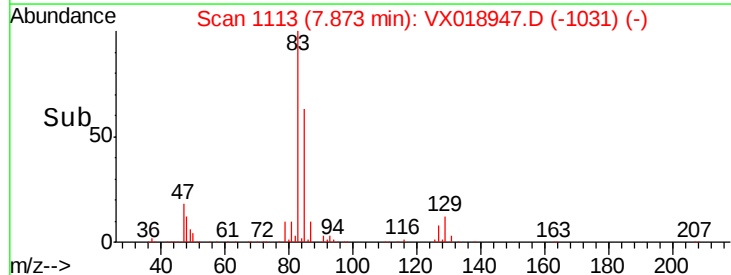
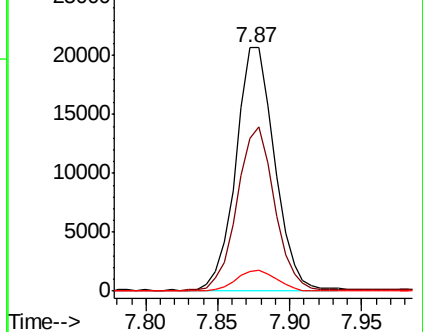
127 8.0 7.5 11.3

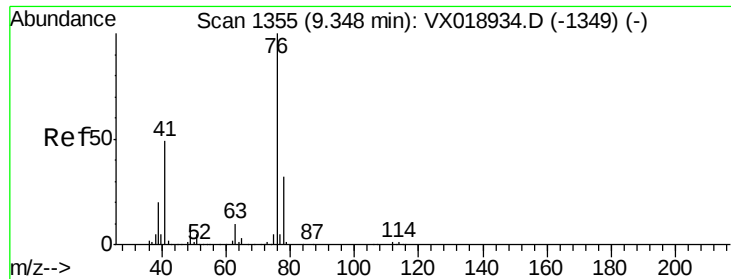


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V

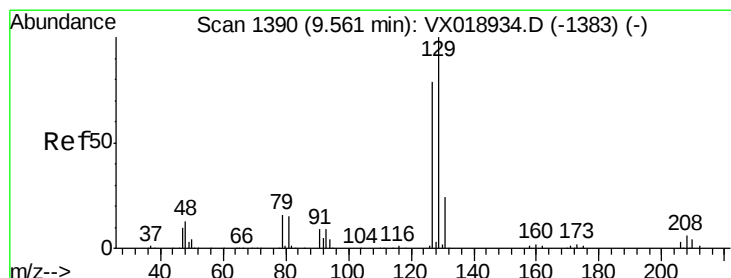
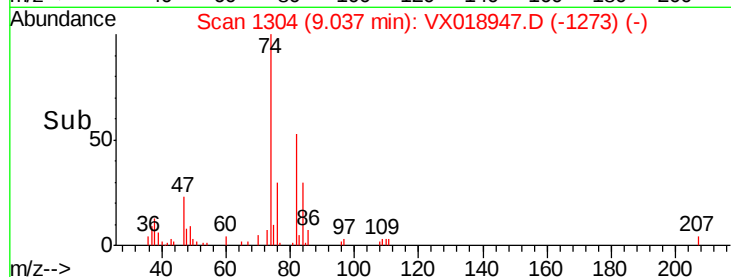
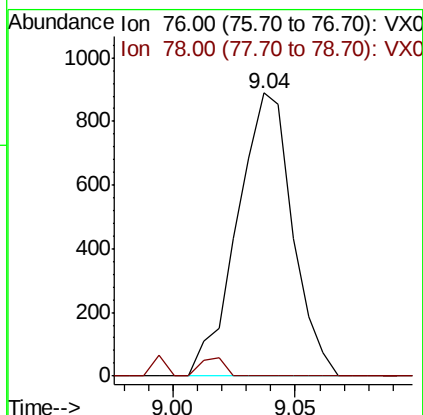
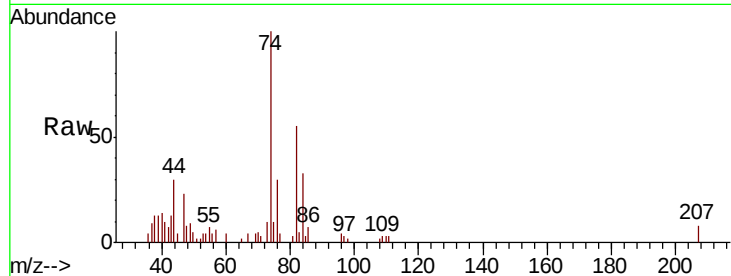




#52
 1,3-Dichloropropane
 Concen: 0.299 ug/l
 RT: 9.04 min Scan# 1304
 Delta R.T. -0.31 min
 Lab File: VX018947.D
 Acq: 15 Oct 2020 21:00

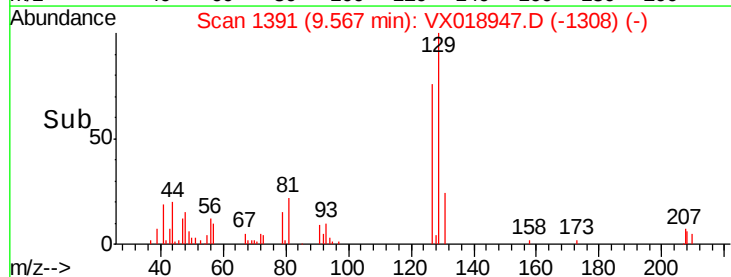
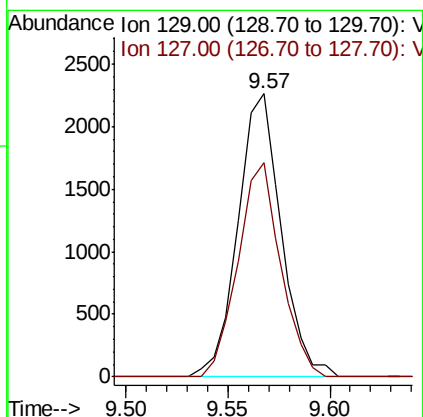
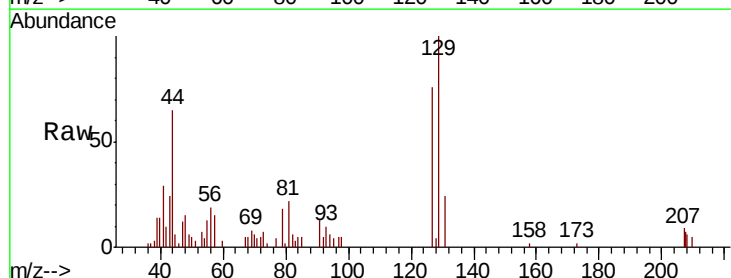
Instrument :
 MSVOA_X
 ClientSampleId :
 14B-3

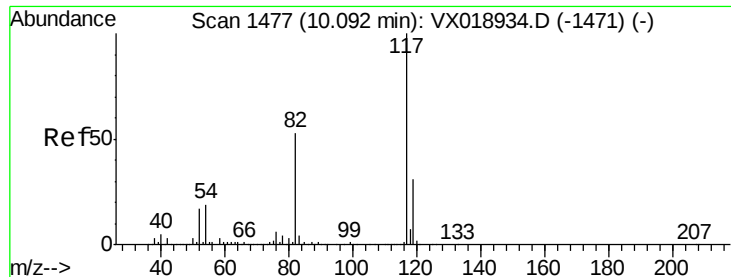
Tot Ion: 76 Resp: 1394
 Ion Ratio Lower Upper
 76 100
 78 2.9 0.0 65.2



#53
 Dibromochloromethane
 Concen: 0.989 ug/l
 RT: 9.57 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VX018947.D
 Acq: 15 Oct 2020 21:00

Tgt Ion: 129 Resp: 3326
 Ion Ratio Lower Upper
 129 100
 127 75.0 38.7 116.1

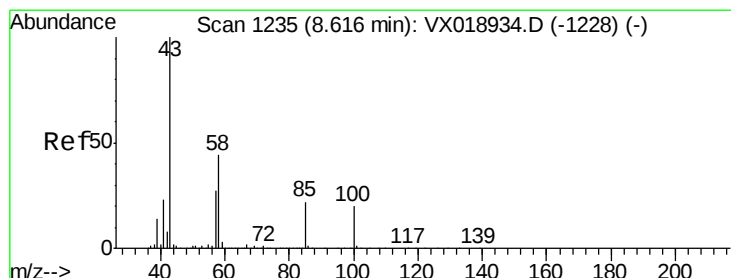
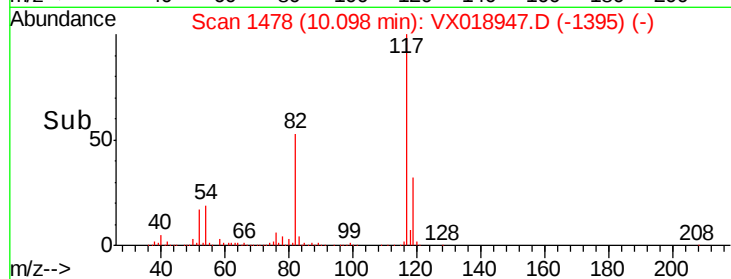
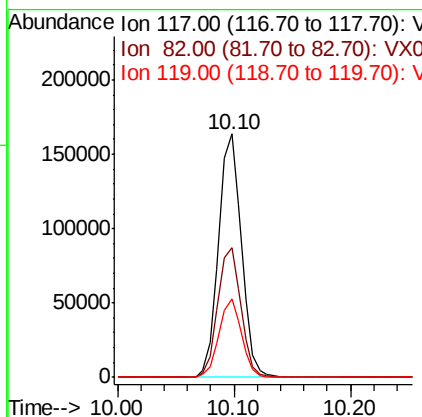
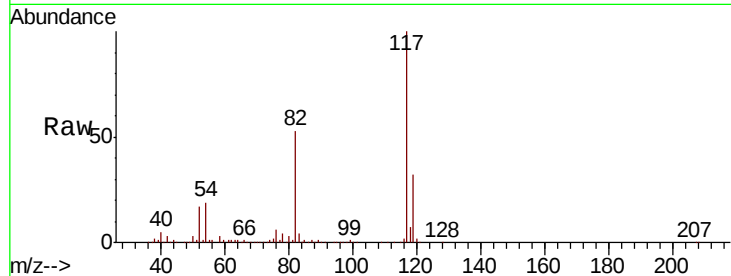




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

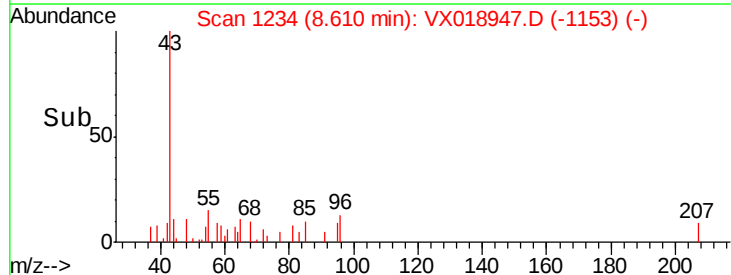
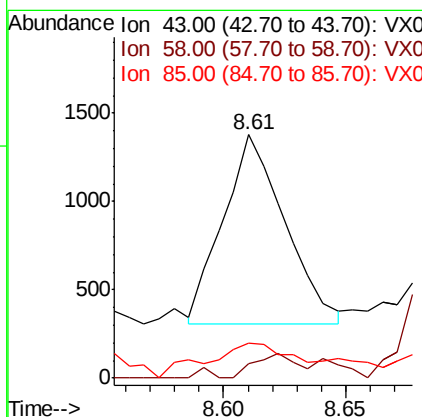
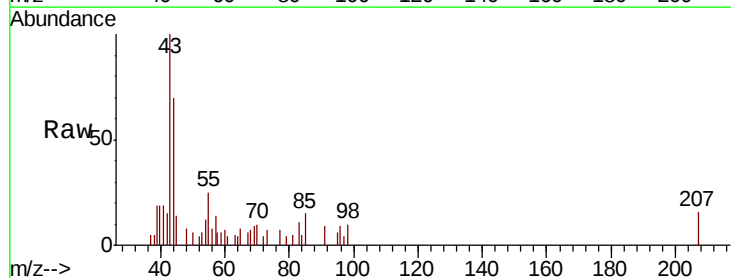
Instrument :
MSVOA_X
ClientSampleId :
14B-3

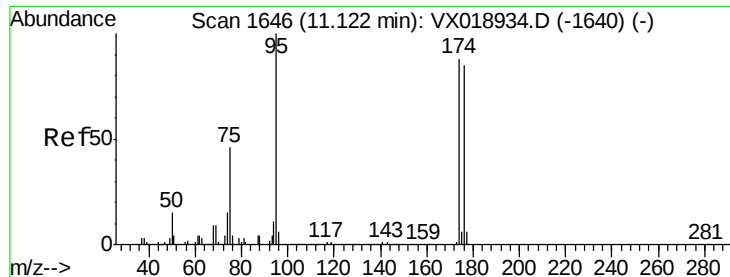
Tot Ion:117 Resp: 220936
Ion Ratio Lower Upper
117 100
82 54.3 41.6 62.4
119 32.2 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.536 ug/l
RT: 8.61 min Scan# 1234
Delta R.T. -0.01 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

Tgt Ion: 43 Resp: 1891
Ion Ratio Lower Upper
43 100
58 9.1 35.4 53.2#
85 19.8 18.0 27.0

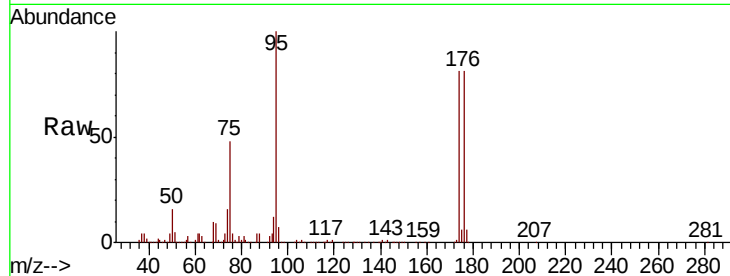




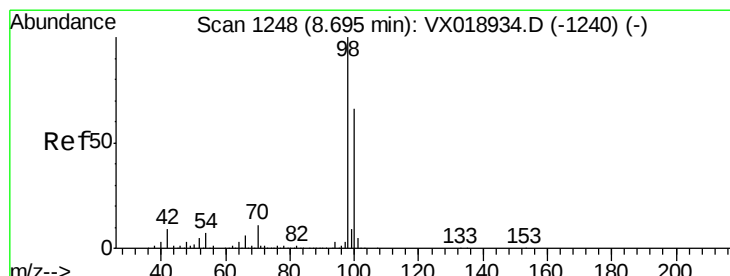
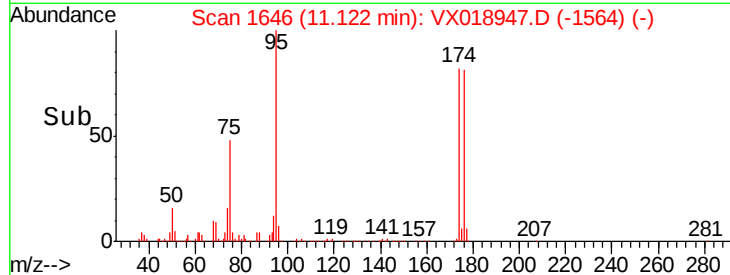
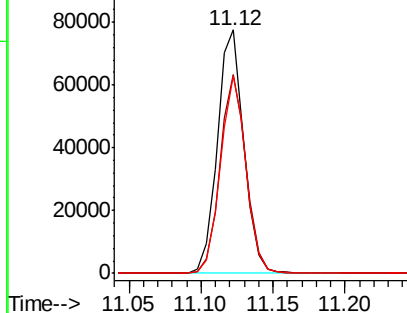
#60
4-Bromofluorobenzene
Concen: 29.049 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

Instrument :
MSVOA_X
ClientSampled :
14B-3

Tot Ion: 95 Resp: 99920
Ion Ratio Lower Upper
95 100
174 80.2 67.0 100.4
176 78.8 64.5 96.7

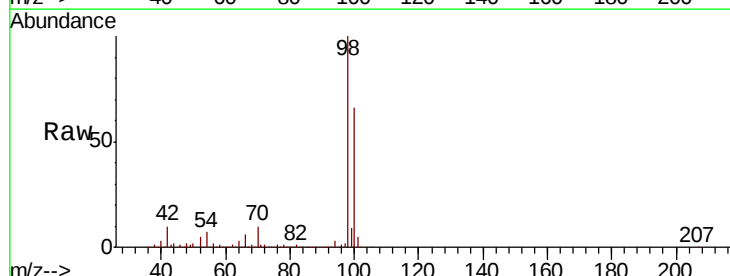


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V



#63
Toluene-d8
Concen: 31.416 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018947.D
Acq: 15 Oct 2020 21:00

Tgt Ion: 98 Resp: 303212
Ion Ratio Lower Upper
98 100
100 66.3 53.2 79.8



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

