

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070618\
 Data File : VX003218.D
 Acq On : 06 Jul 2018 16:20
 Operator : JC/MD
 Sample : J3894-02DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

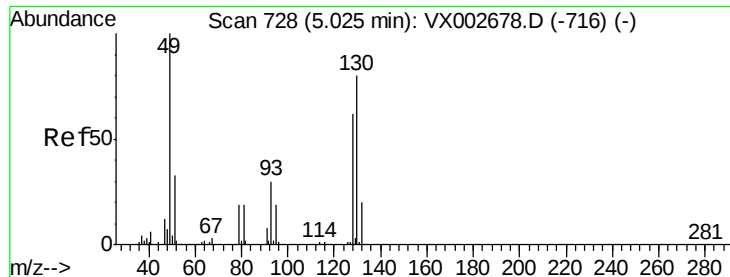
Quant Time: Jul 06 23:42:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X061818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 18 15:18:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	50756	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	265891	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	247491	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.07	65	111677	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%	
60) 4-Bromofluorobenzene		11.14	95	113050	27.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.20%	
63) Toluene-d8		8.72	98	309639	28.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.47%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.32	50	787	0.30	ug/l	99
5) Bromomethane	1.65	94	1410	0.82	ug/l	88
6) Chloroethane	1.64	64	426	0.22	ug/l	96
11) Methyl Iodide	2.52	142	5928	1.96	ug/l	95
13) Acrolein	2.55	56	162	0.54	ug/l	86
15) Acetone	2.45	58	70213	157.72	ug/l	94
16) Carbon Disulfide	2.57	76	1917	0.29	ug/l	99
18) Methylene Chloride	2.85	84	3102	1.03	ug/l	87
22) cis-1,2-Dichloroethene	4.60	96	818	0.27	ug/l #	1
30) 2-Butanone	4.72	43	6286	3.06	ug/l #	88
56) Bromoform	11.14	173	1286	0.53	ug/l #	1
58) 4-Methyl-2-Pentanone	8.66	43	1514	0.36	ug/l #	87
62) Toluene	8.79	91	486941	40.82	ug/l	98
77) t-1,4-Dichloro-2-butene	11.14	75	57416	49.11	ug/l #	11
79) tert-butylbenzene	12.07	119	33649	2.56	ug/l	99
82) p-Isopropyltoluene	12.07	119	33649	2.56	ug/l	99

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.03 min Scan# 728

Delta R.T. -0.00 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

Instrument :

MSVOA_X

ClientSampleId :

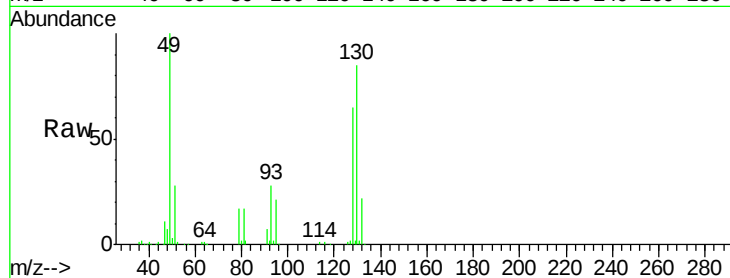
Tot Ion:128 Resp: 50756

Ion Ratio Lower Upper

128 100

49 148.3 0.0 423.0

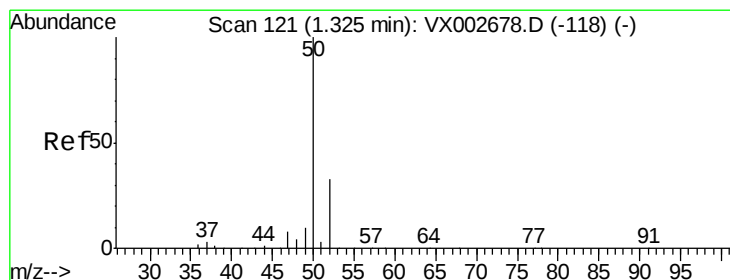
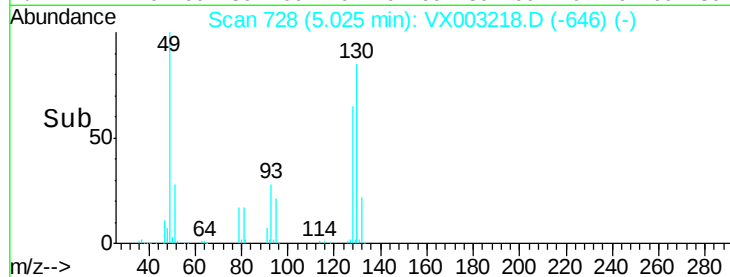
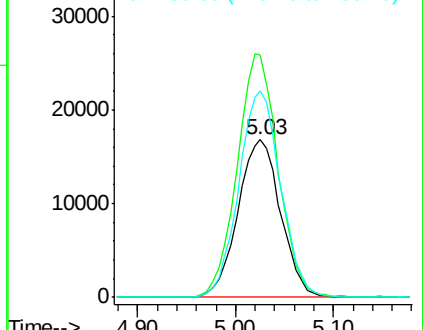
130 128.7 0.0 324.3



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: 0.30 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX003218.D

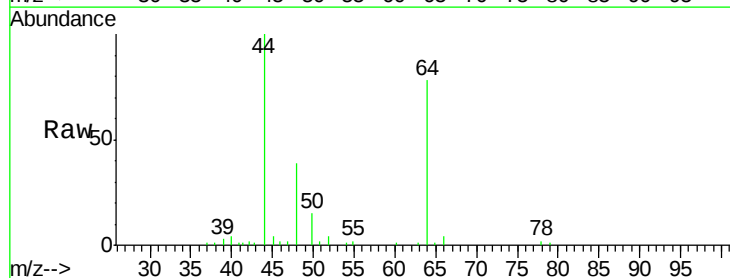
Acq: 06 Jul 2018 16:20

Tgt Ion: 50 Resp: 787

Ion Ratio Lower Upper

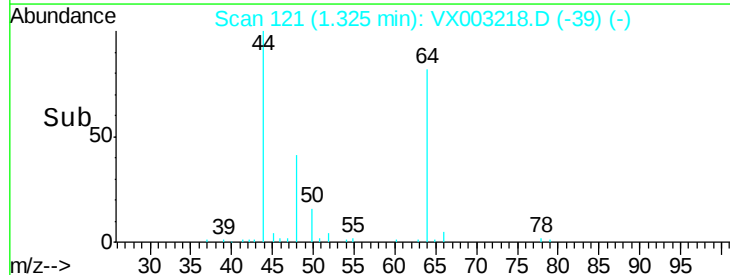
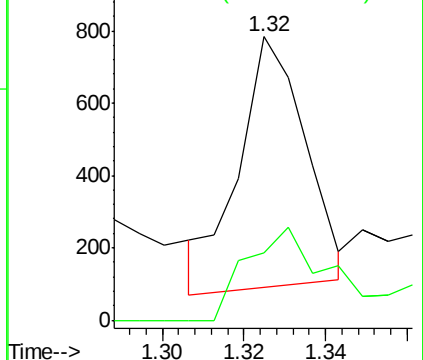
50 100

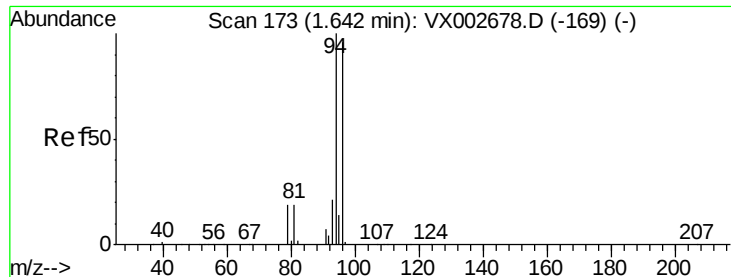
52 31.3 25.6 38.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.82 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

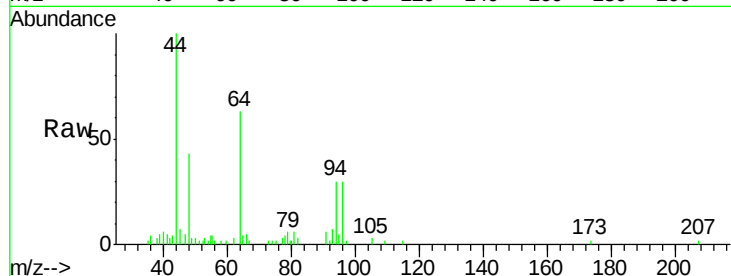
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1410

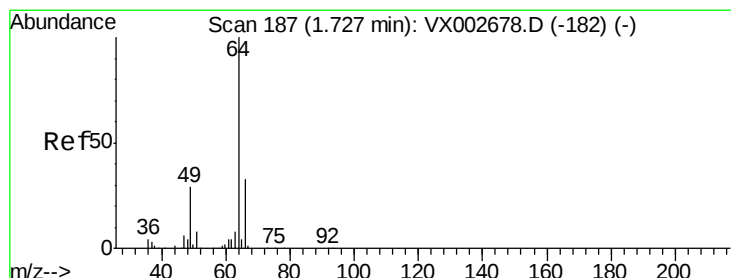
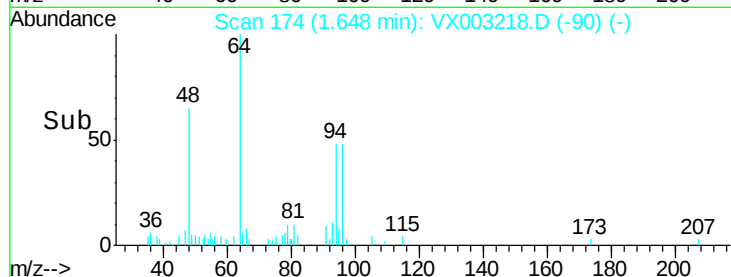
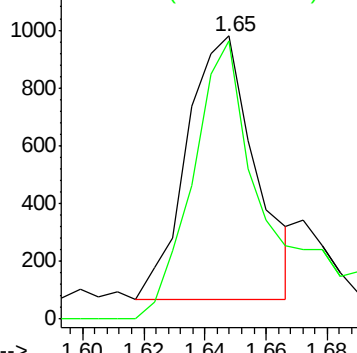
Ion Ratio Lower Upper

94 100

96 105.9 75.7 113.5



Abundance Ion 94.00 (93.70 to 94.70): VX0
Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 0.22 ug/l

RT: 1.64 min Scan# 172

Delta R.T. -0.07 min

Lab File: VX003218.D

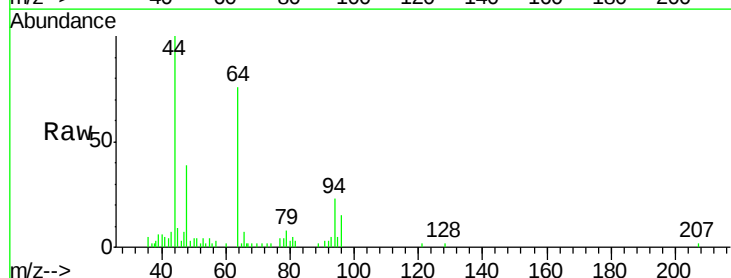
Acq: 06 Jul 2018 16:20

Tgt Ion: 64 Resp: 426

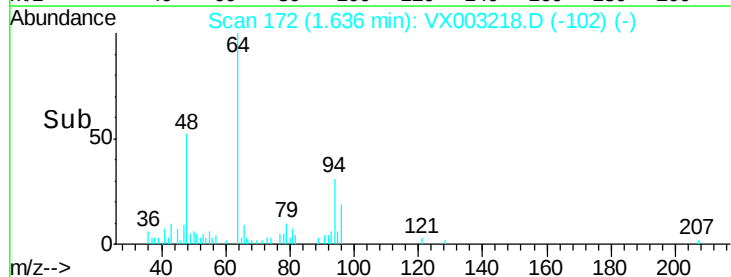
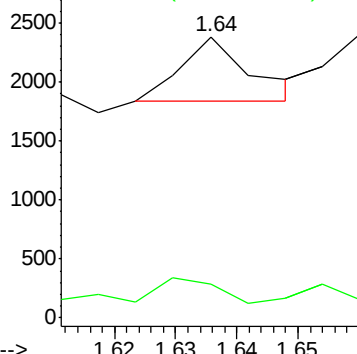
Ion Ratio Lower Upper

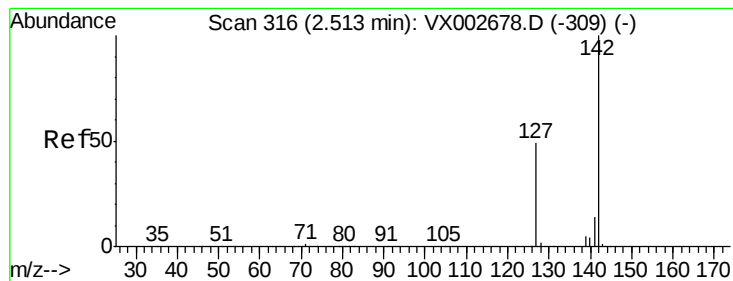
64 100

66 28.2 24.3 36.5



Abundance Ion 64.00 (63.70 to 64.70): VX0
Ion 66.00 (65.70 to 66.70): VX0





#11

Methvl Iodide

Concen: 1.96 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

Instrument :

MSVOA_X

ClientSampleId :

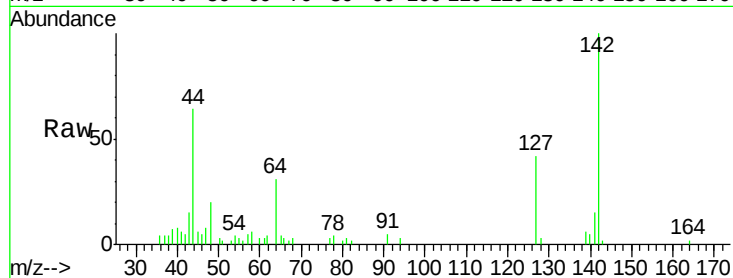
Tot Ion:142 Resp: 5928

Ion Ratio Lower Upper

142 100

127 42.2 23.2 69.6

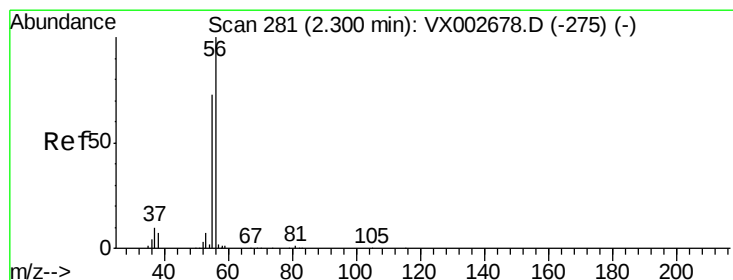
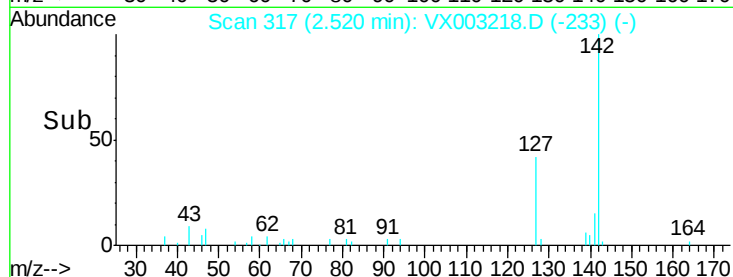
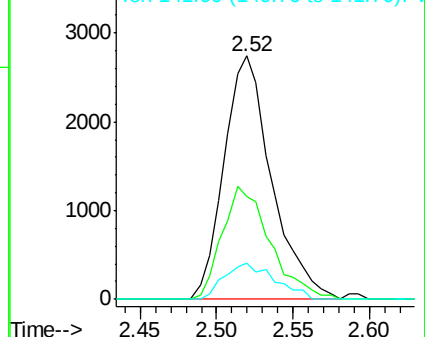
141 14.8 7.4 22.2



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#13

Acrolein

Concen: 0.54 ug/l

RT: 2.55 min Scan# 322

Delta R.T. 0.25 min

Lab File: VX003218.D

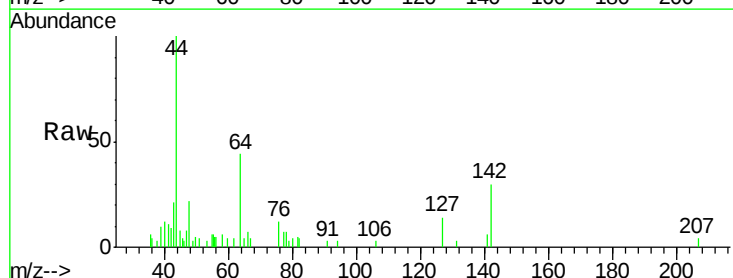
Acq: 06 Jul 2018 16:20

Tgt Ion: 56 Resp: 162

Ion Ratio Lower Upper

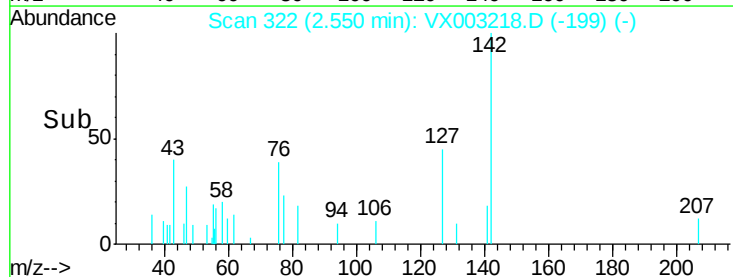
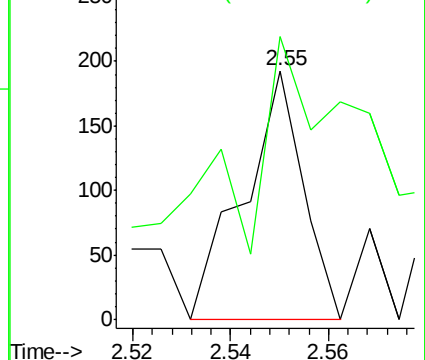
56 100

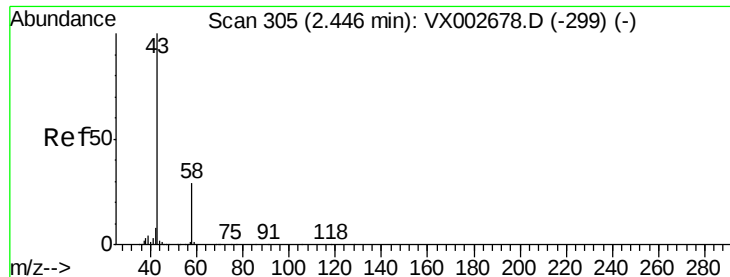
55 59.9 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 157.72 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

Instrument :

MSVOA_X

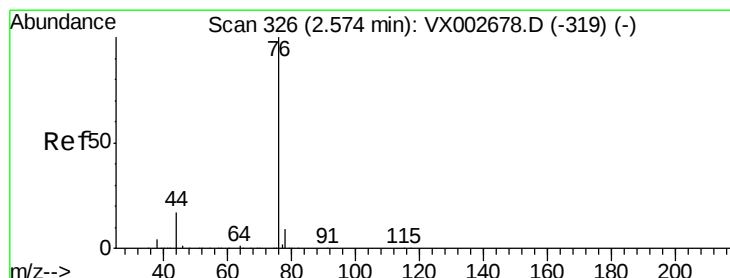
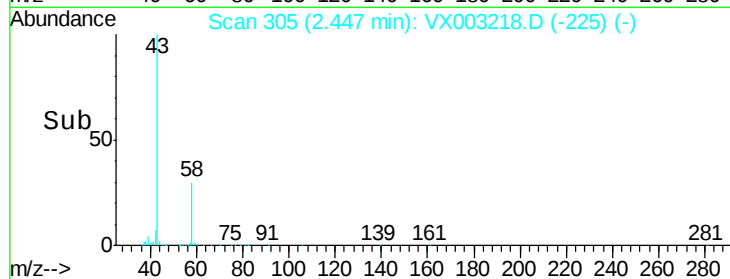
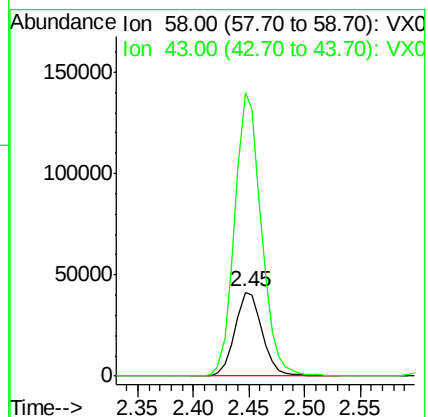
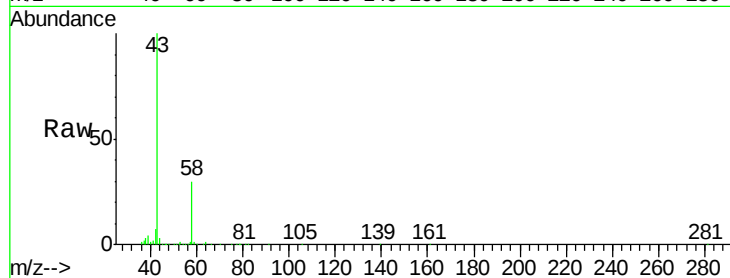
ClientSampleId :

Tot Ion: 58 Resp: 70213

Ion Ratio Lower Upper

58 100

43 335.5 278.8 418.2



#16

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.01 min

Lab File: VX003218.D

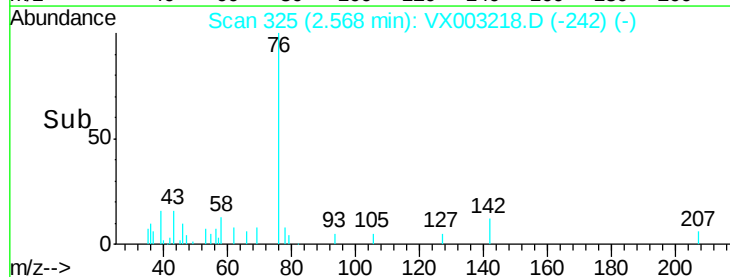
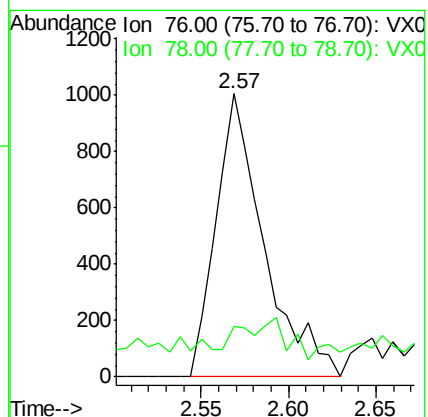
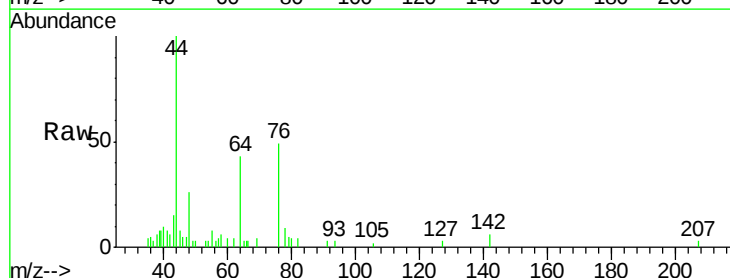
Acq: 06 Jul 2018 16:20

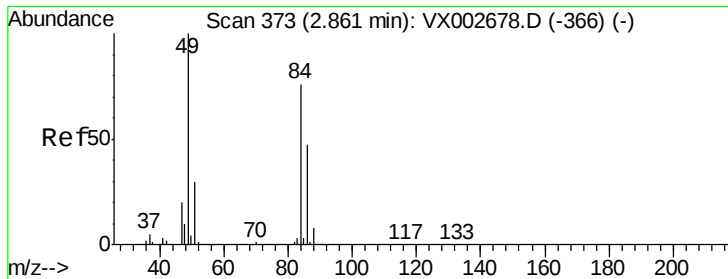
Tgt Ion: 76 Resp: 1917

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

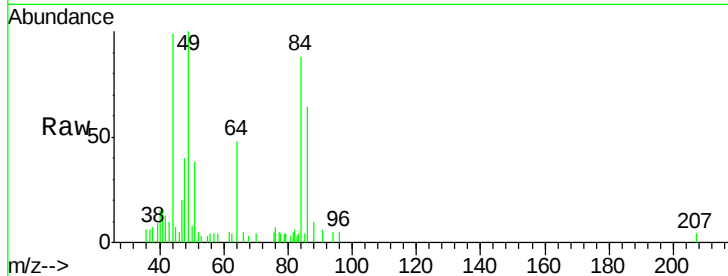




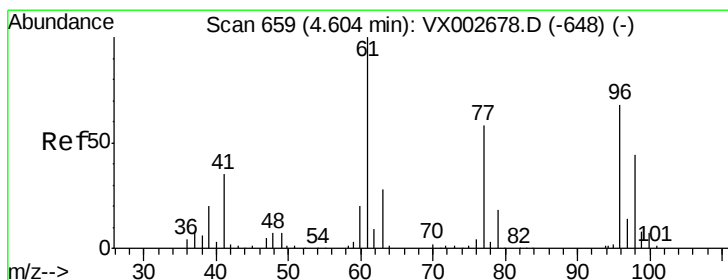
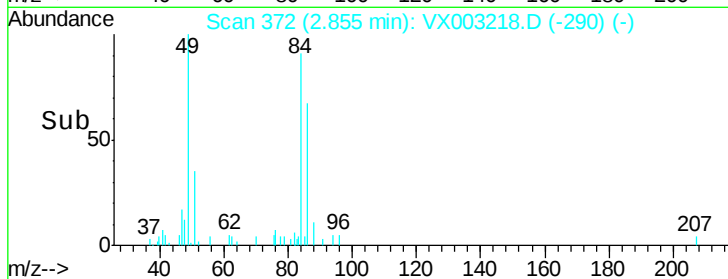
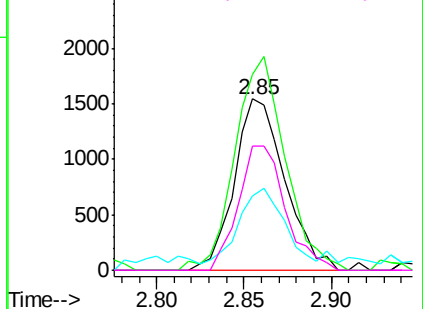
#18
Methylene Chloride
Concen: 1.03 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 3102
Ion Ratio Lower Upper
84 100
49 110.6 104.7 157.1
51 39.0 31.0 46.4
86 72.9 50.8 76.2

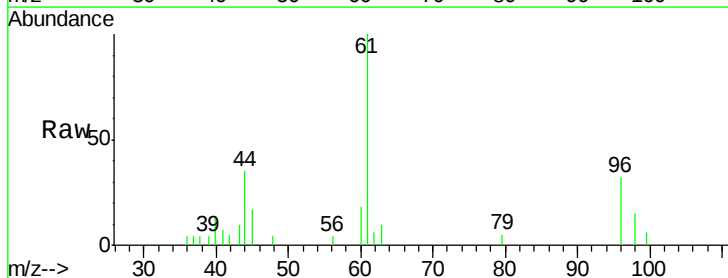


Abundance Ion 84.00 (83.70 to 84.70): VX0
Ion 49.00 (48.70 to 49.70): VX0
Ion 51.00 (50.70 to 51.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

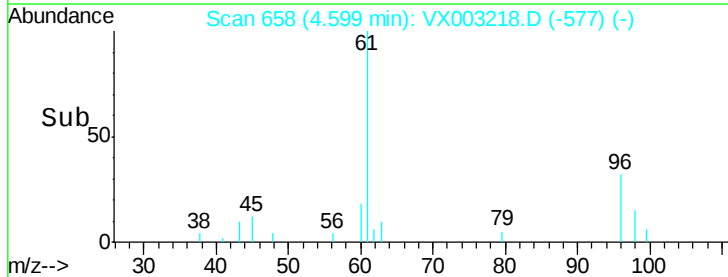
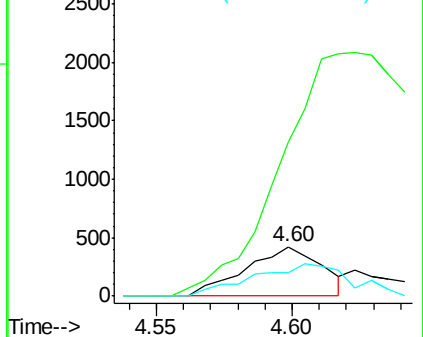


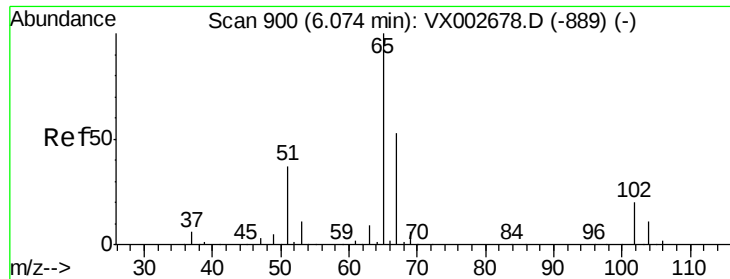
#22
cis-1,2-Dichloroethene
Concen: 0.27 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Tgt Ion: 96 Resp: 818
Ion Ratio Lower Upper
96 100
61 10.0 160.2 240.2#
98 26.4 54.1 81.1#



Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 28.81 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.01 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

Instrument :

MSVOA_X

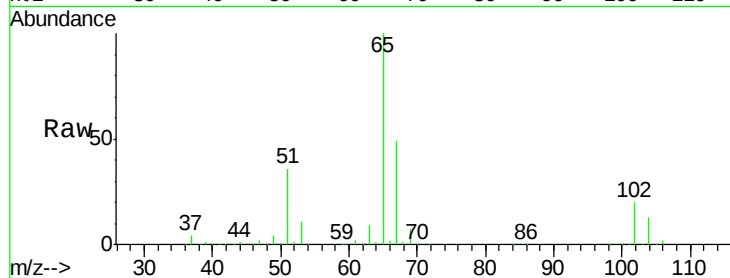
ClientSampleId :

Tot Ion: 65 Resp: 111677

Ion Ratio Lower Upper

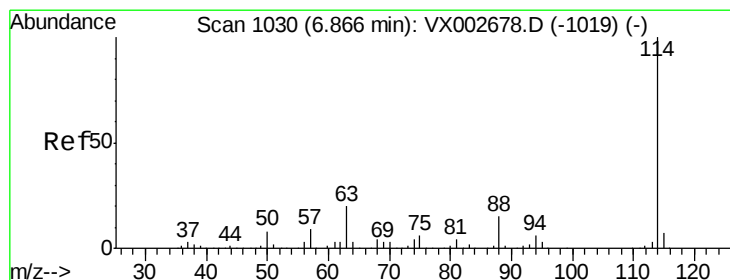
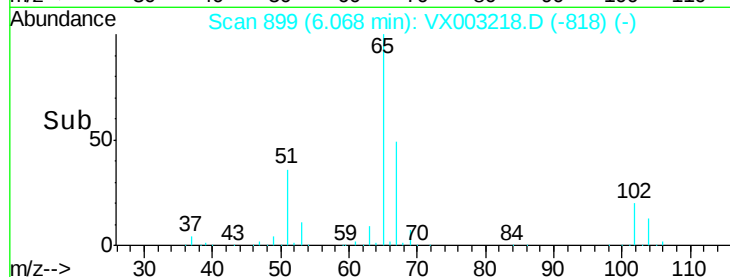
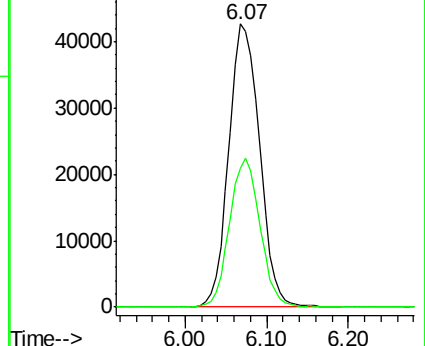
65 100

67 51.7 40.9 61.3



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

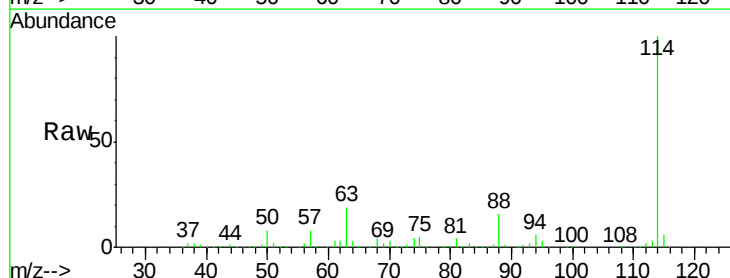
Tgt Ion: 114 Resp: 265891

Ion Ratio Lower Upper

114 100

63 19.9 17.1 25.7

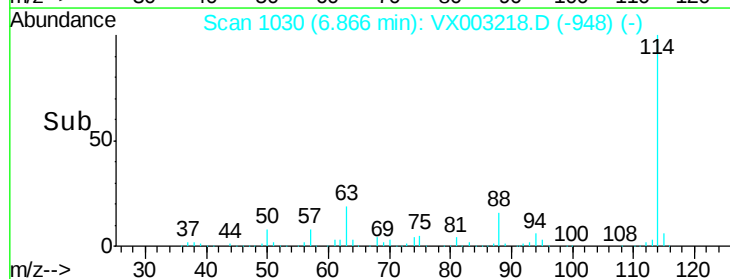
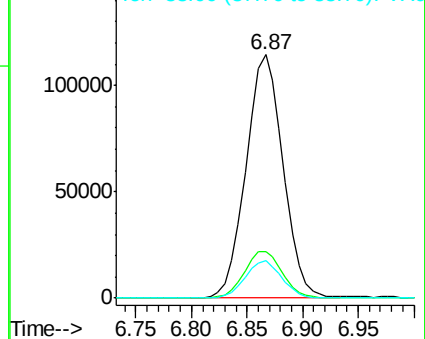
88 15.3 12.6 19.0

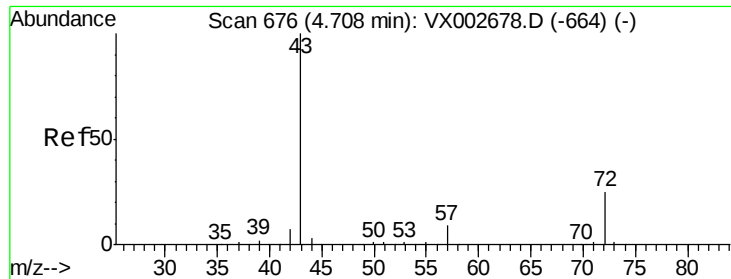


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

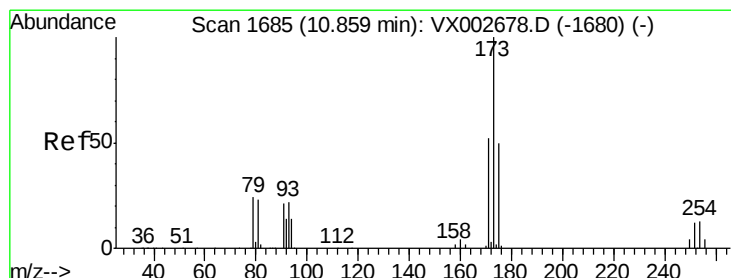
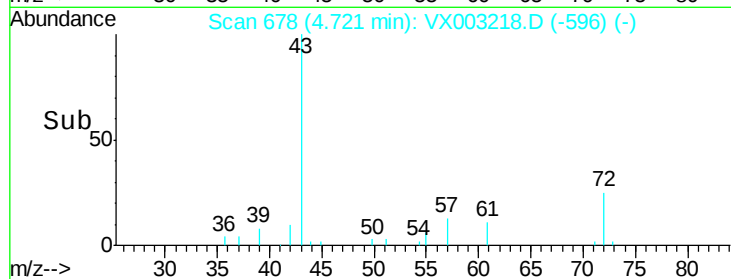
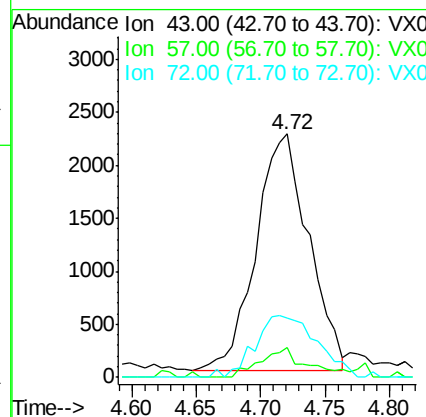
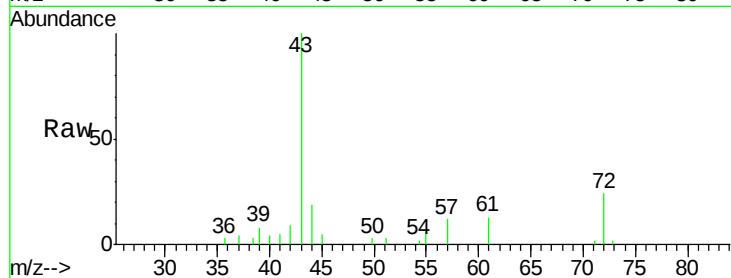




#30
2-Butanone
Concen: 3.06 ug/l
RT: 4.72 min Scan# 678
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

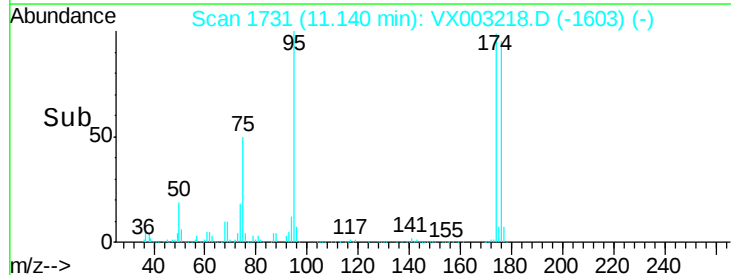
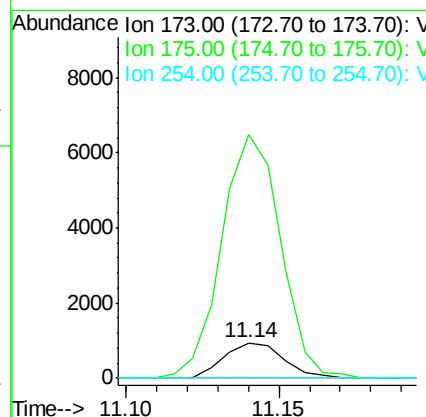
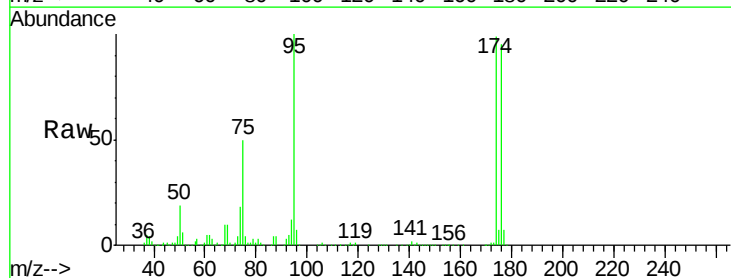
Instrument :
MSVOA_X
ClientSampleId :

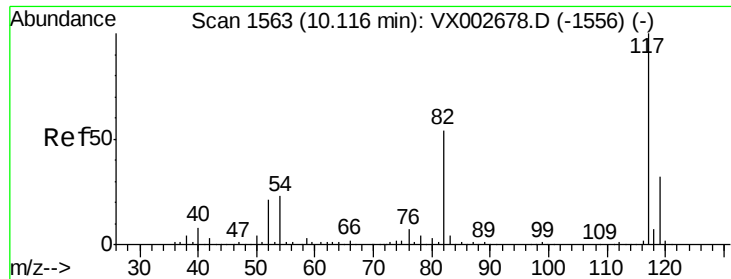
Tot Ion: 43 Resp: 6286
Ion Ratio Lower Upper
43 100
57 8.4 6.1 9.1
72 30.2 18.1 27.1#



#56
Bromoform
Concen: 0.53 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.28 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Tgt Ion:173 Resp: 1286
Ion Ratio Lower Upper
173 100
175 671.3 39.0 58.4#
254 0.0 9.6 14.4#

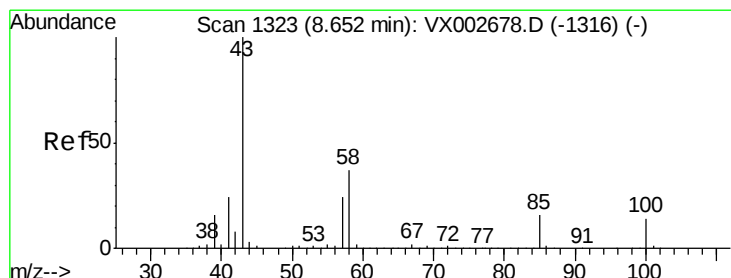
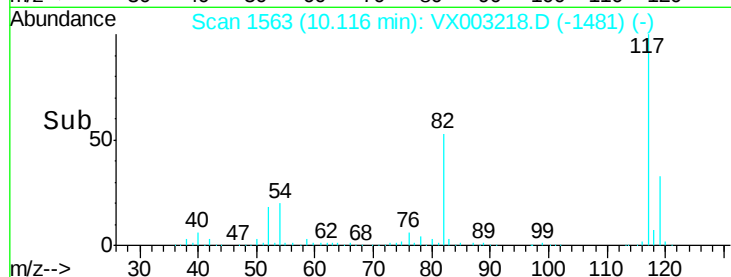
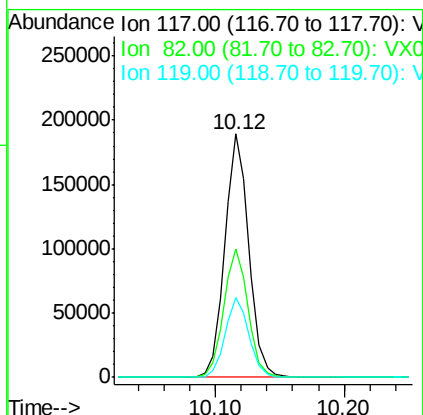
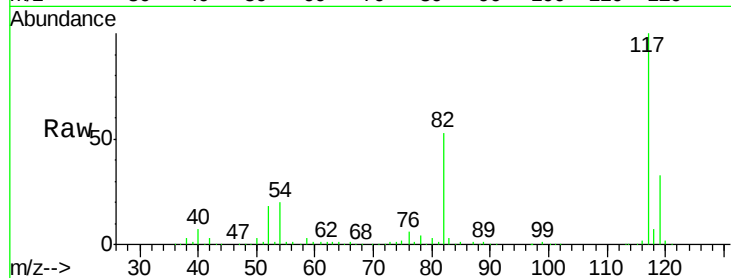




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

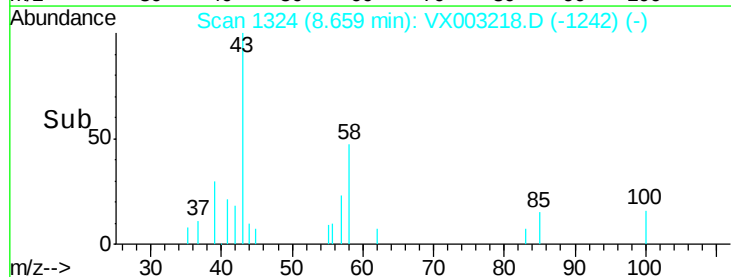
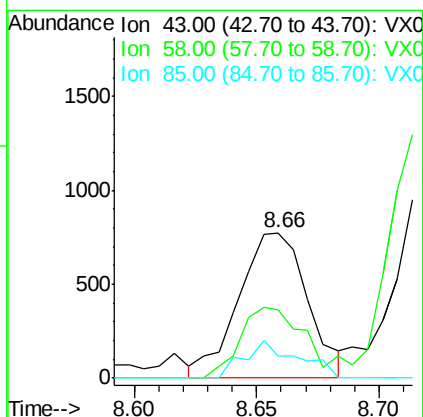
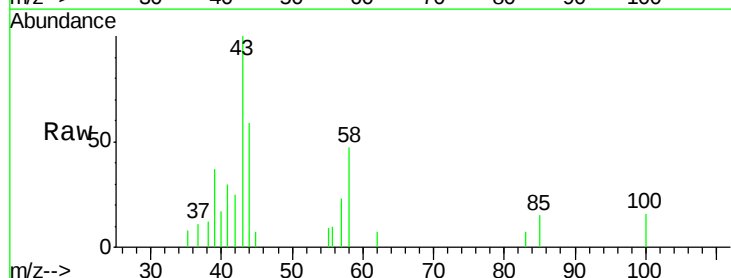
Instrument :
MSVOA_X
ClientSampleId :

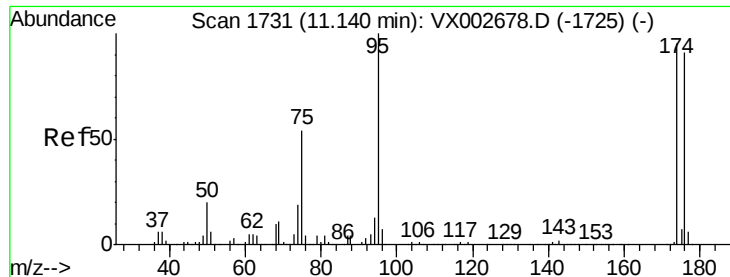
Tot Ion:117 Resp: 247491
Ion Ratio Lower Upper
117 100
82 53.5 44.3 66.5
119 32.6 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
58 43.7 28.2 42.4#
85 20.2 12.4 18.6#





#60

4-Bromofluorobenzene

Concen: 27.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003218.D

Acq: 06 Jul 2018 16:20

Instrument :

MSVOA_X

ClientSampleId :

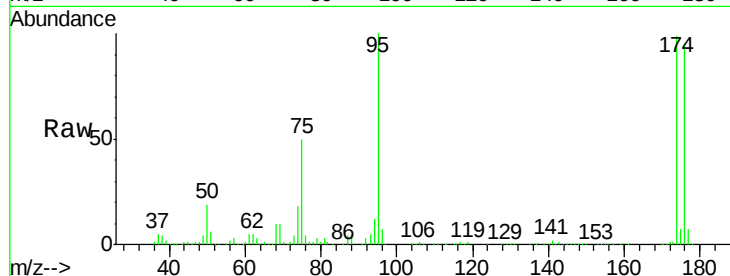
Tot Ion: 95 Resp: 113050

Ion Ratio Lower Upper

95 100

174 99.0 71.8 107.6

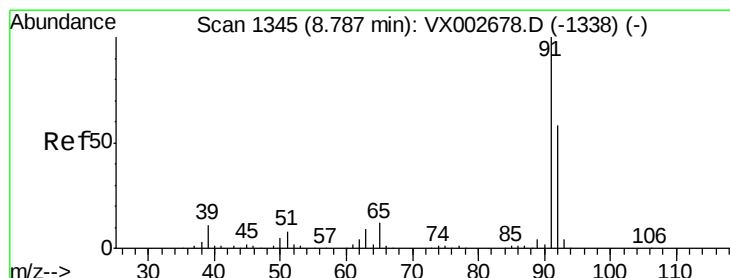
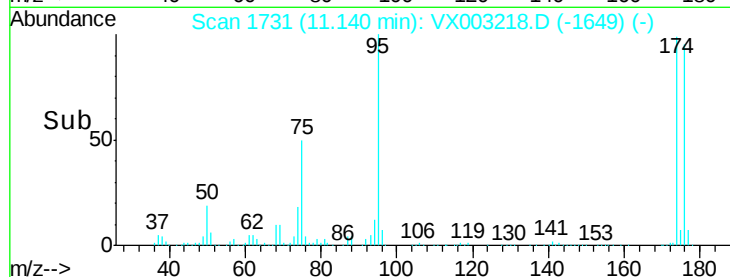
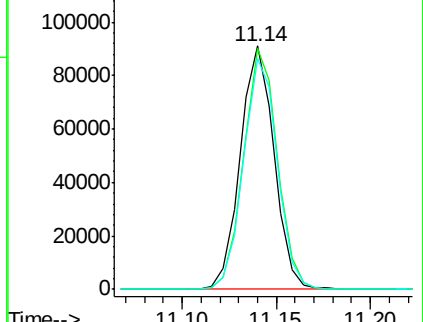
176 95.7 70.1 105.1



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



#62

Toluene

Concen: 40.82 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VX003218.D

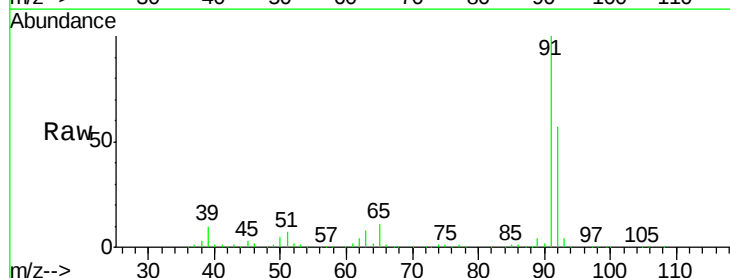
Acq: 06 Jul 2018 16:20

Tgt Ion: 91 Resp: 486941

Ion Ratio Lower Upper

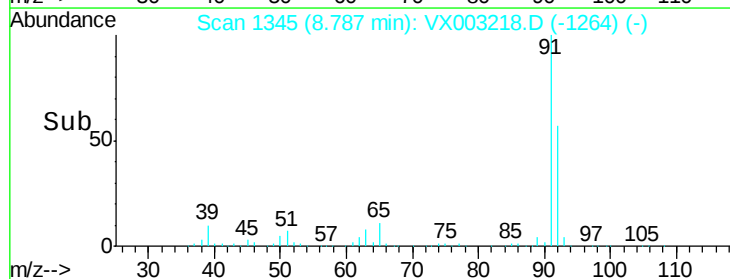
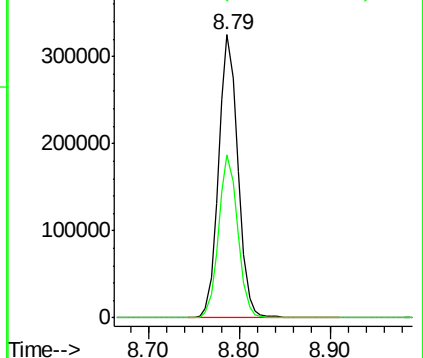
91 100

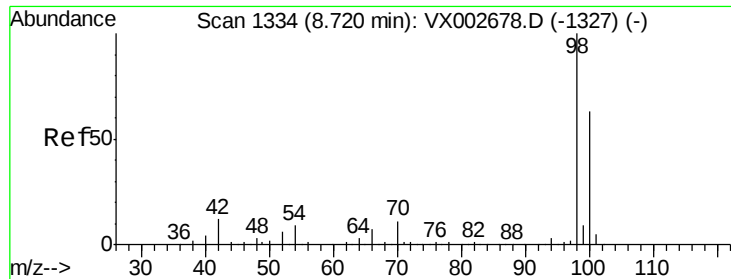
92 56.9 46.5 69.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

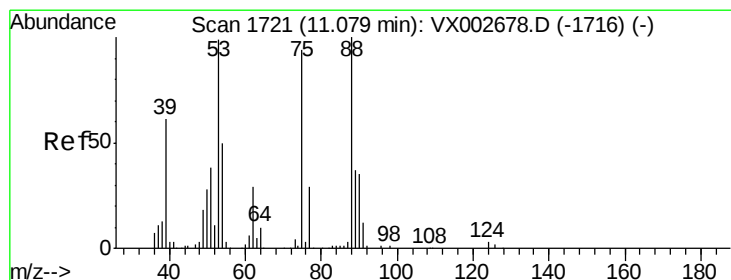
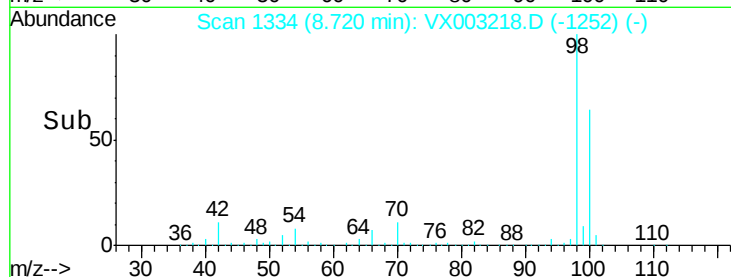
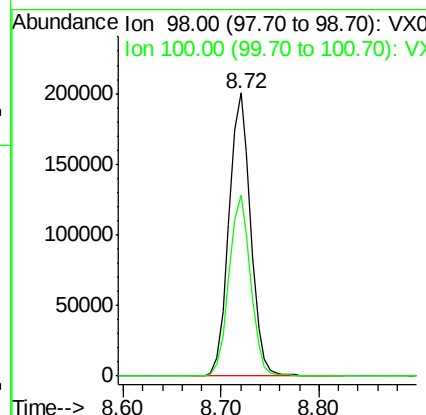
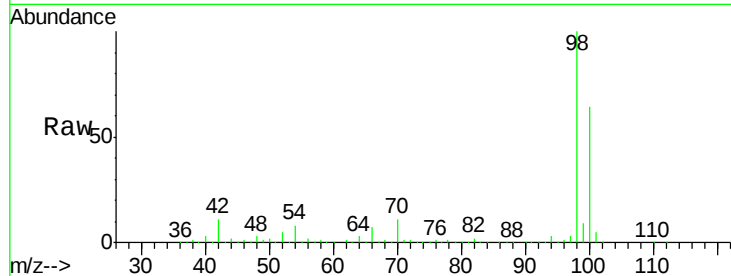




#63
Toluene-d8
Concen: 28.64 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

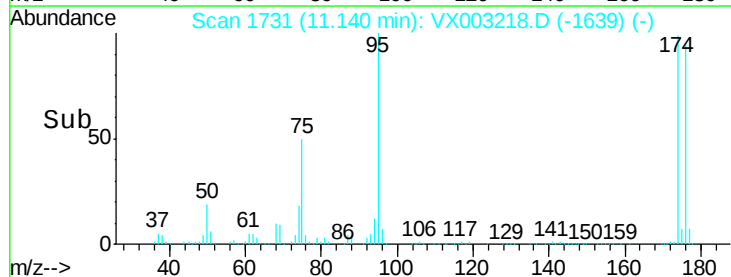
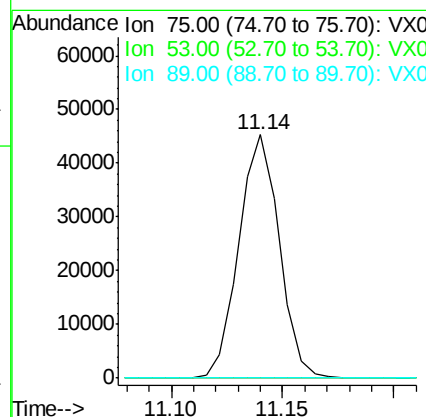
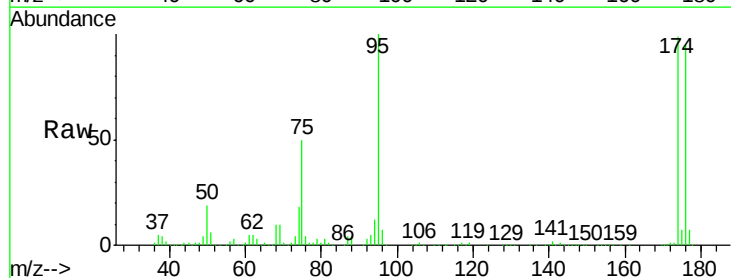
Instrument :
MSVOA_X
ClientSampled :

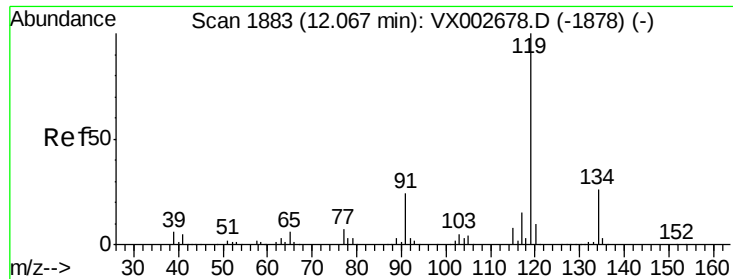
Tot Ion: 98 Resp: 309639
Ion Ratio Lower Upper
98 100
100 63.4 50.8 76.2



#77
t-1,4-Dichloro-2-butene
Concen: 49.11 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Tgt Ion: 75 Resp: 57416
Ion Ratio Lower Upper
75 100
53 0.1 48.3 144.9#
89 0.0 21.8 65.4#

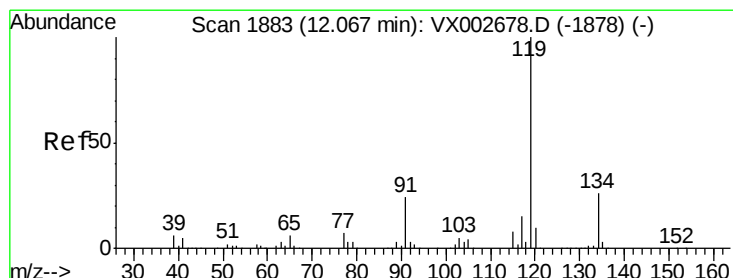
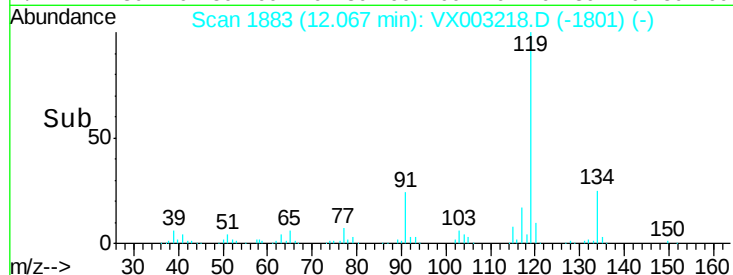
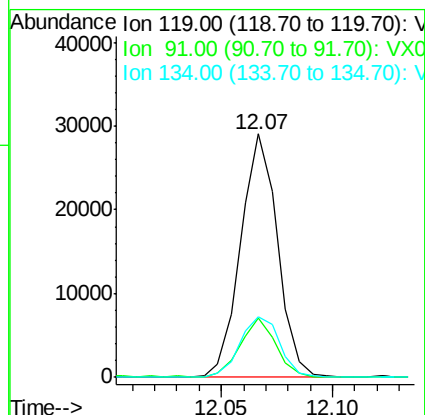
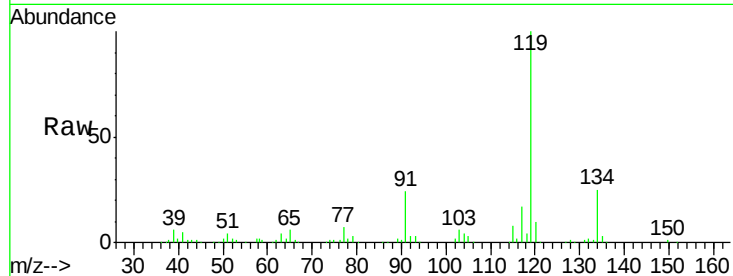




#79
tert-butylbenzene
Concen: 2.56 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:119 Resp: 33649
Ion Ratio Lower Upper
119 100
91 23.8 0.0 48.0
134 26.9 0.0 52.6



#82
p-Isopropyltoluene
Concen: 2.56 ug/l
RT: 12.07 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VX003218.D
Acq: 06 Jul 2018 16:20

Tgt Ion:119 Resp: 33649
Ion Ratio Lower Upper
119 100
134 26.9 0.0 52.6
91 23.8 0.0 48.0

