

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081718\
 Data File : VX004132.D
 Acq On : 17 Aug 2018 15:16
 Operator : JC/MD
 Sample : J4522-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 18 01:32:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	256437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	406897	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	364733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	203341	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	191837	53.10	ug/l	0.00
Spiked Amount			Recovery	=	106.20%	
35) Dibromofluoromethane	5.51	113	163922	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
50) Toluene-d8	8.72	98	571459	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	
62) 4-Bromofluorobenzene	11.14	95	188290	42.05	ug/l	0.00
Spiked Amount			Recovery	=	84.10%	

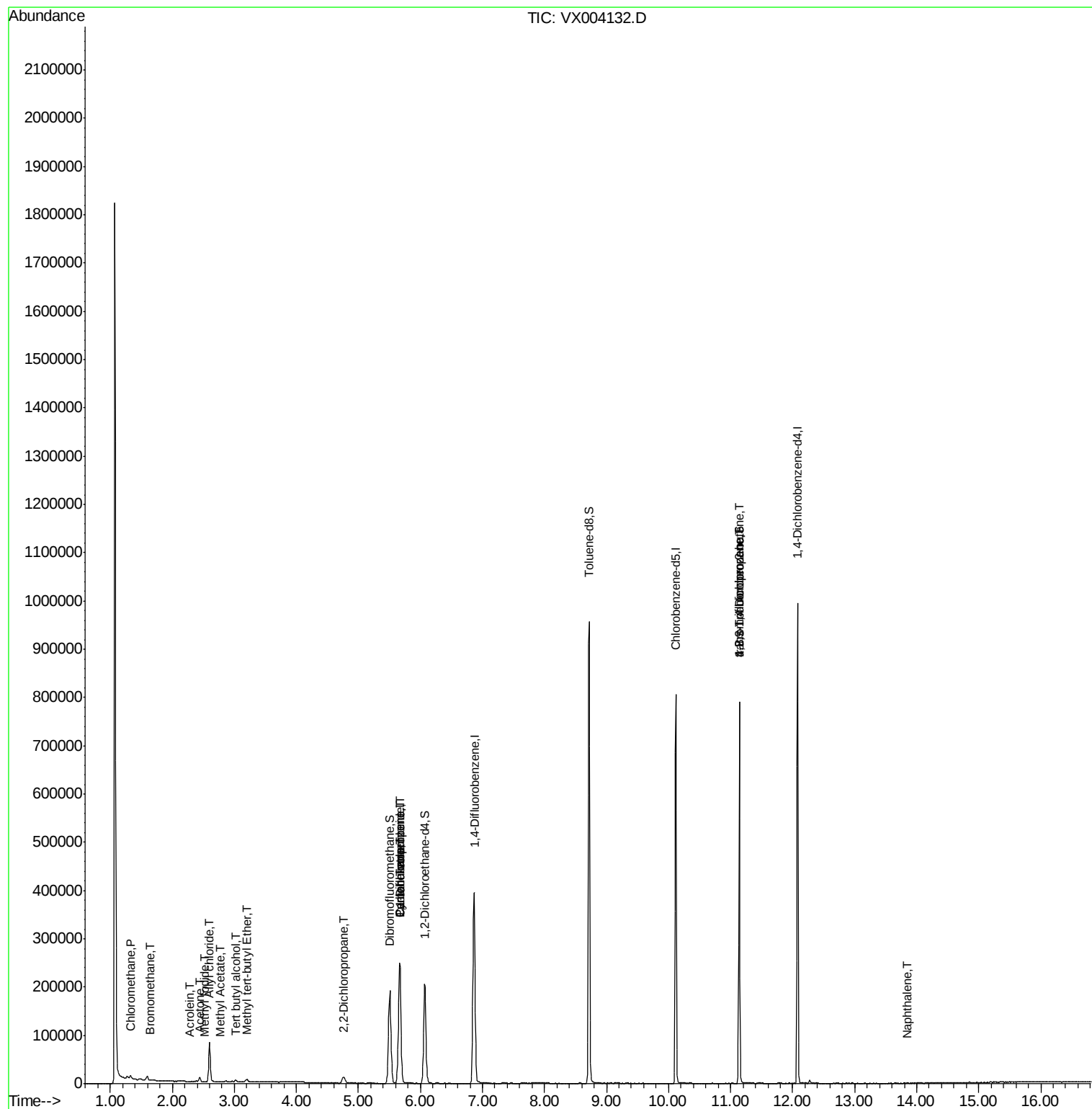
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	7224	2.36	ug/l	100
5) Bromomethane	1.65	94	1053	0.45	ug/l	# 68
6) Chloroethane	1.74	64	270	Below Cal	#	42
10) Methyl Iodide	2.53	142	530	5.16	ug/l	# 73
11) Tert butyl alcohol	3.01	59	2080	2.86	ug/l	# 73
13) Acrolein	2.29	56	296	11.52	ug/l	92
14) Allyl chloride	2.60	41	8242	1.61	ug/l	# 57
16) Acetone	2.44	43	9583	5.10	ug/l	100
18) Methyl Acetate	2.77	43	976	0.23	ug/l	# 88
19) Methyl tert-butyl Ether	3.20	73	5729	0.60	ug/l	91
20) Methylene Chloride	2.86	84	684	Below Cal	#	85
26) 2,2-Dichloropropane	4.75	77	1351	0.30	ug/l	# 51
31) Cyclohexane	5.67	56	4680	0.94	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18136	3.92	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	22784	5.06	ug/l	# 16
76) 1,2,3-Trichloropropane	11.14	75	91462	22.43	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	91462	69.43	ug/l	# 10
95) Naphthalene	13.83	128	279	1.16	ug/l	# 69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

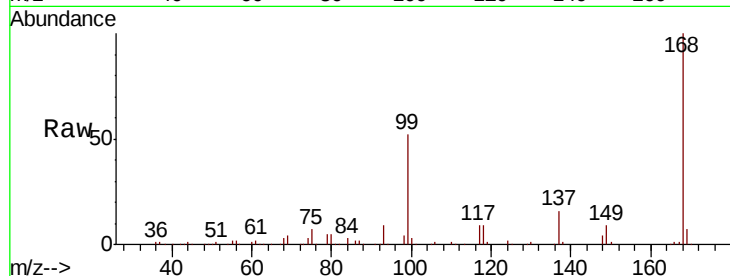
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 256437

Ion Ratio Lower Upper

168 100

99 51.8 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

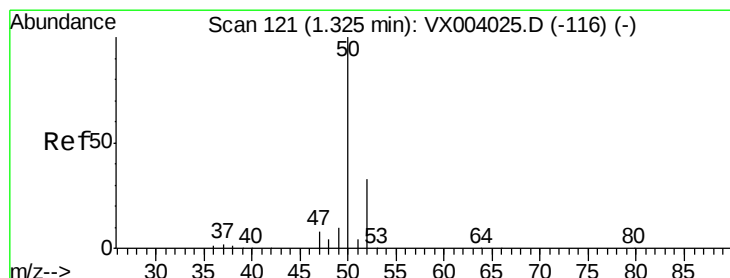
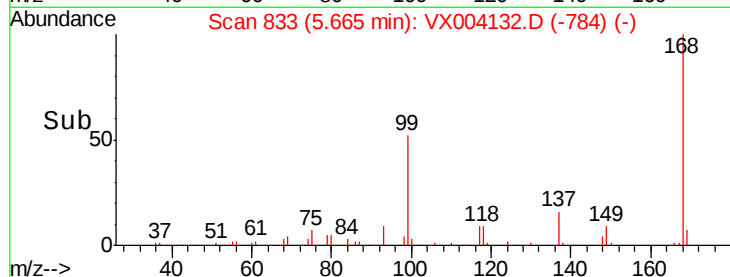
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: 2.36 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004132.D

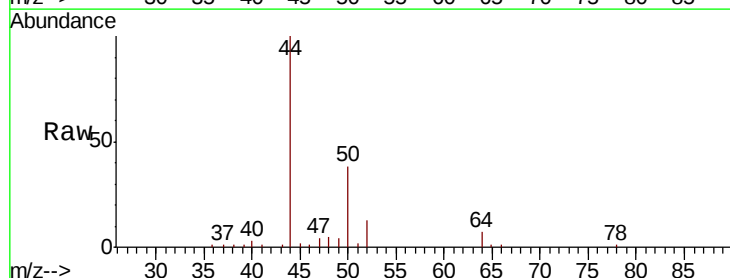
Acq: 17 Aug 2018 15:16

Tgt Ion: 50 Resp: 7224

Ion Ratio Lower Upper

50 100

52 33.0 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

4000

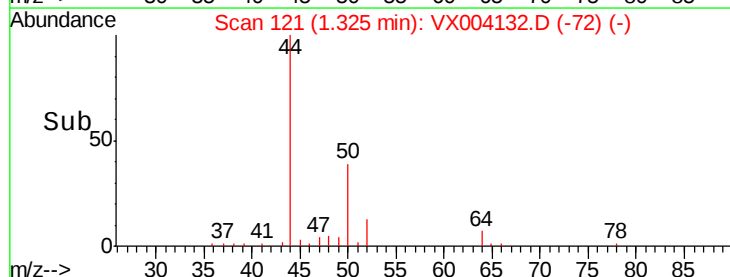
3000

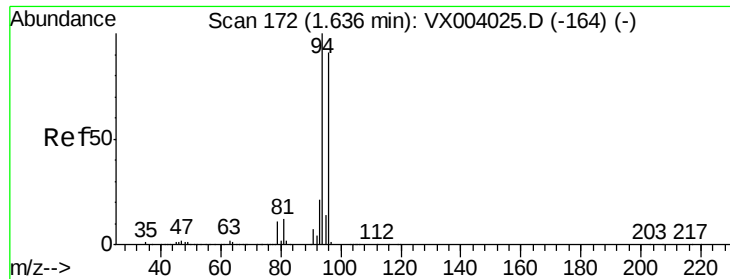
2000

1000

0

Time--> 1.25 1.30 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.45 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

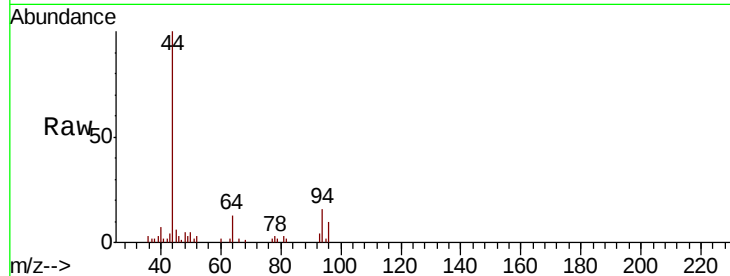
ClientSampleId :

Tot Ion: 94 Resp: 1053

Ion Ratio Lower Upper

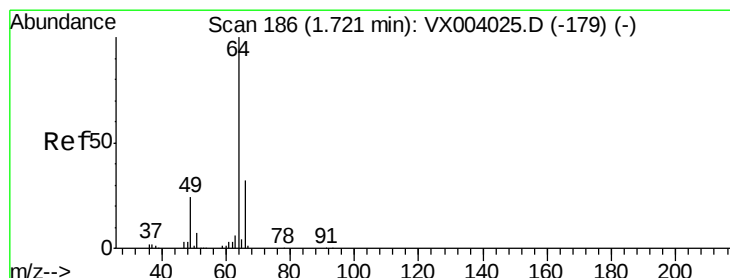
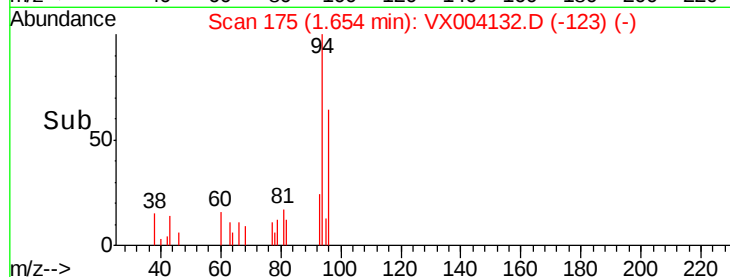
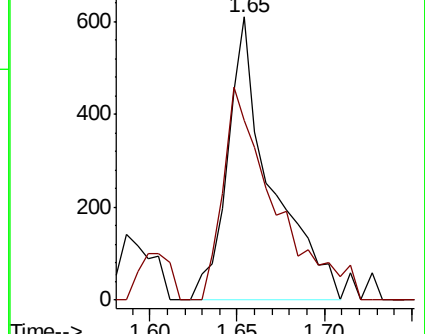
94 100

96 63.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 189

Delta R.T. 0.02 min

Lab File: VX004132.D

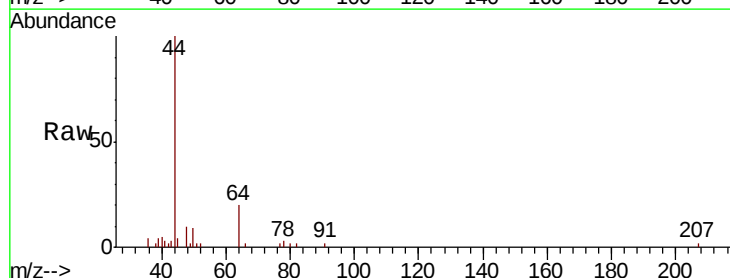
Acq: 17 Aug 2018 15:16

Tgt Ion: 64 Resp: 270

Ion Ratio Lower Upper

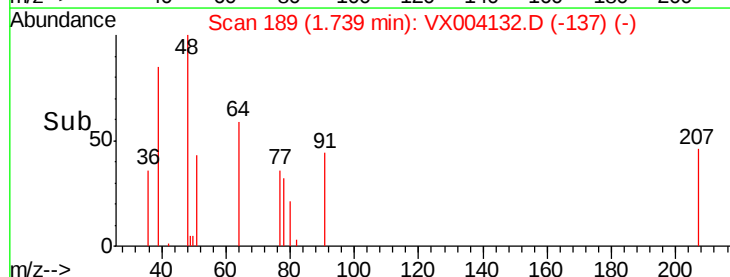
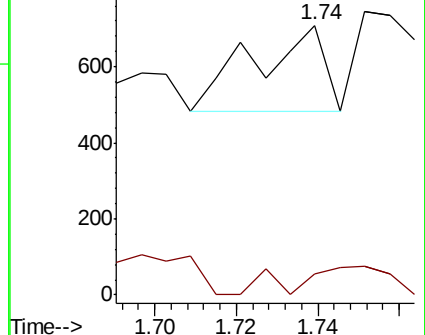
64 100

66 0.0 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

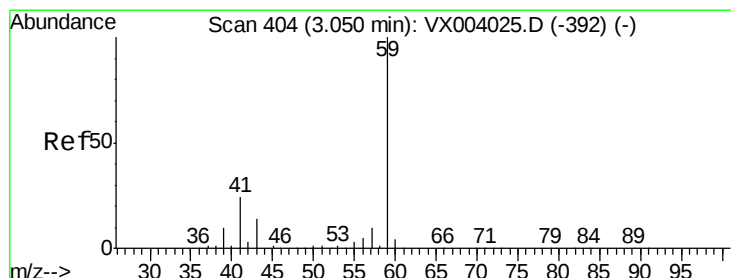
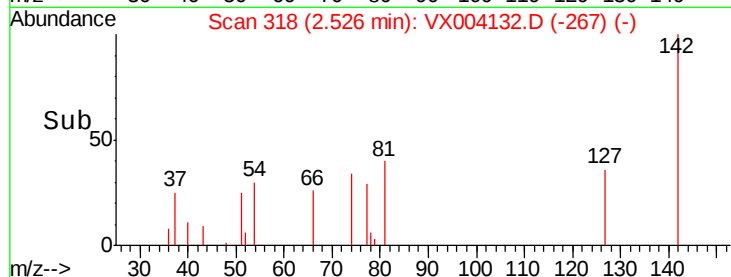
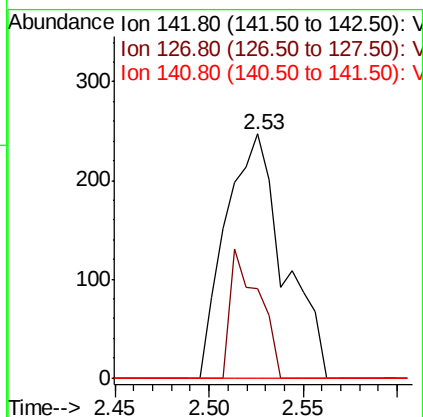
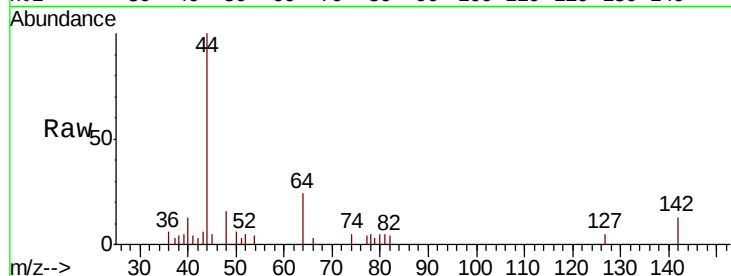




#10
Methvl Iodide
Concen: 5.16 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX004132.D
Acq: 17 Aug 2018 15:16

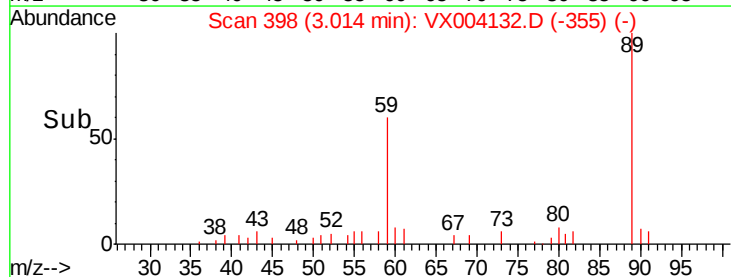
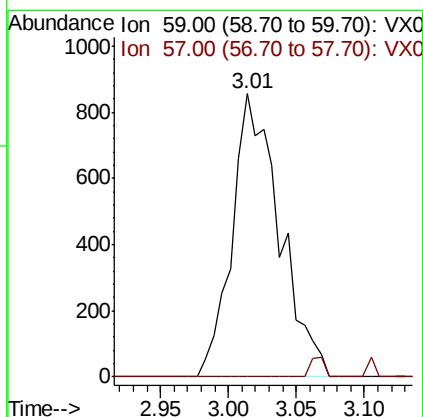
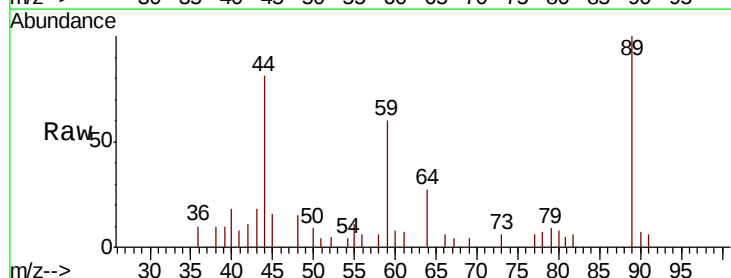
Instrument :
MSVOA_X
ClientSampleId :

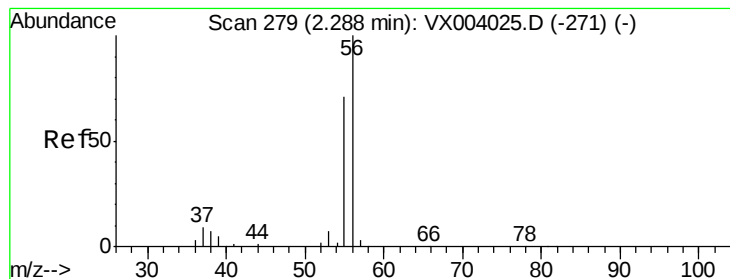
Tot Ion:142 Resp: 530
Ion Ratio Lower Upper
142 100
127 25.8 33.1 49.7#
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 2.86 ug/l
RT: 3.01 min Scan# 398
Delta R.T. -0.04 min
Lab File: VX004132.D
Acq: 17 Aug 2018 15:16

Tgt Ion: 59 Resp: 2080
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 11.52 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

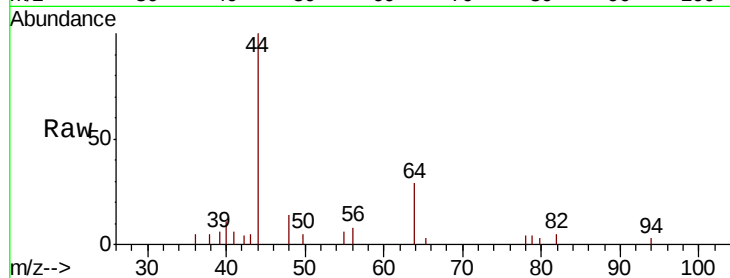
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 296

Ion Ratio Lower Upper

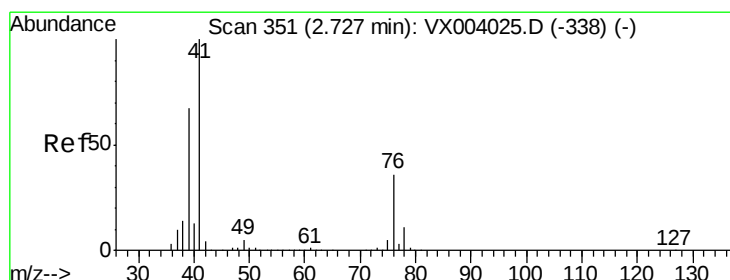
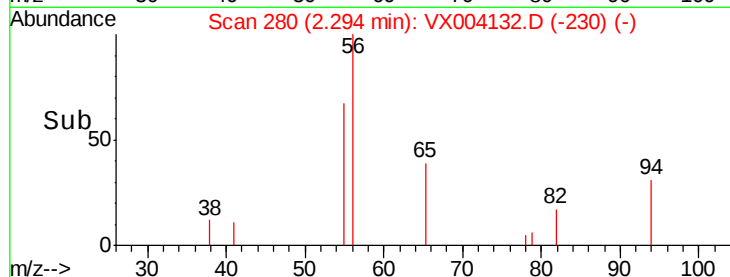
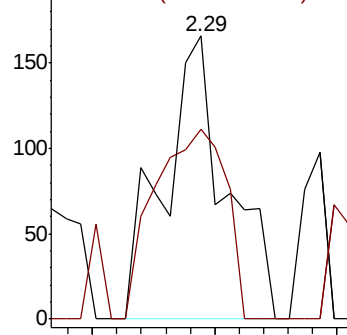
56 100

55 76.7 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 1.61 ug/l

RT: 2.60 min Scan# 330

Delta R.T. -0.13 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

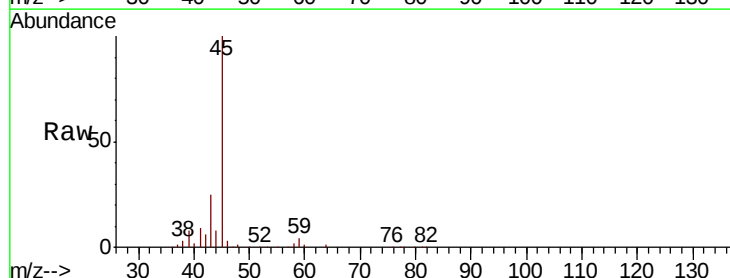
Tgt Ion: 41 Resp: 8242

Ion Ratio Lower Upper

41 100

39 84.9 47.4 71.0#

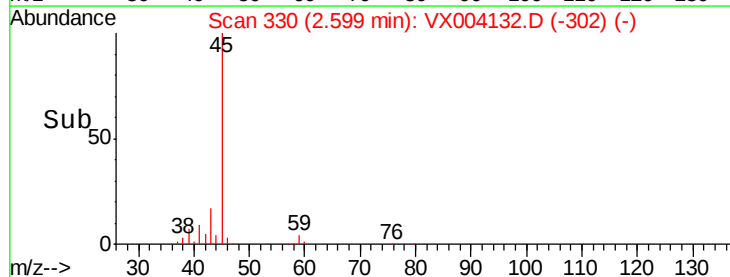
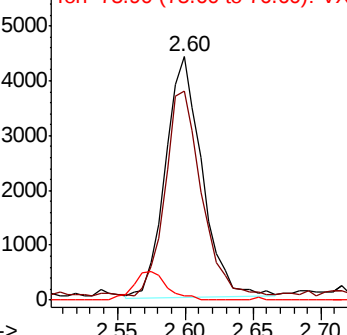
76 0.0 26.0 39.0#

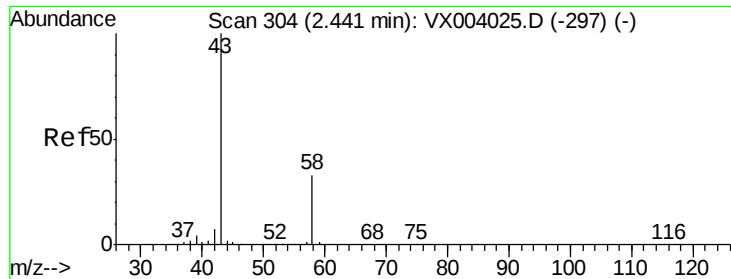


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 5.10 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

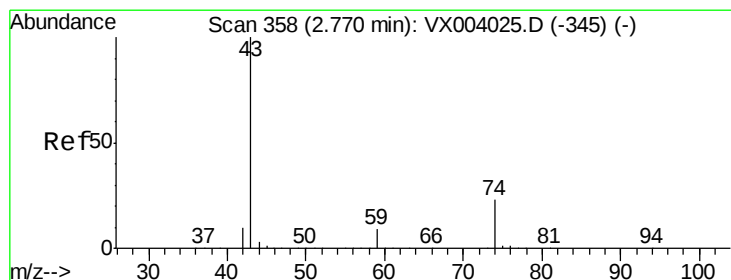
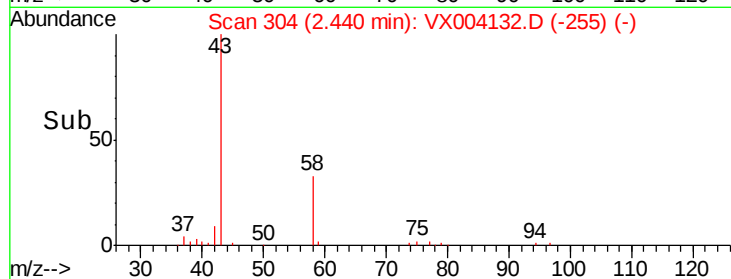
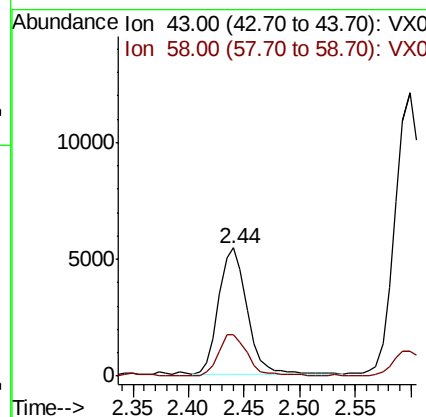
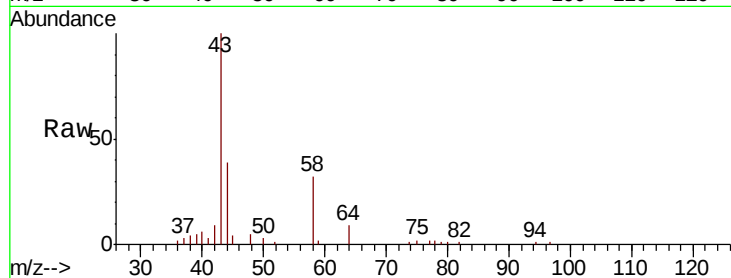
ClientSampleId :

Tot Ion: 43 Resp: 9583

Ion Ratio Lower Upper

43 100

58 32.9 26.4 39.6



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.77 min Scan# 358

Delta R.T. -0.00 min

Lab File: VX004132.D

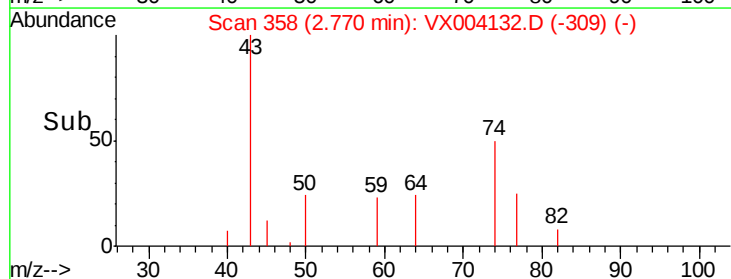
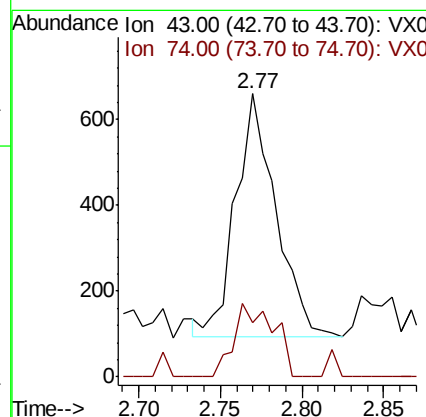
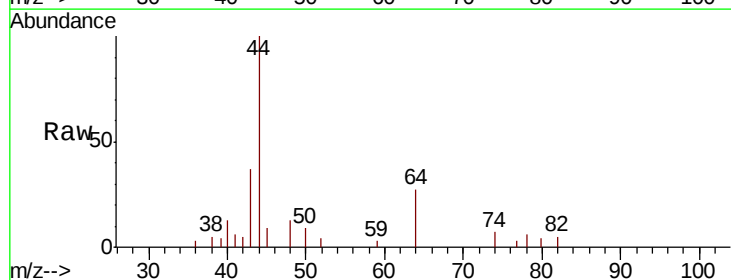
Acq: 17 Aug 2018 15:16

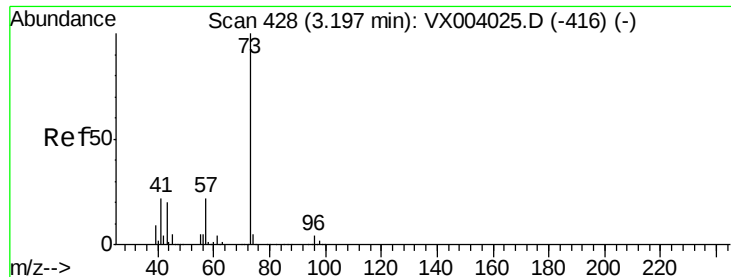
Tgt Ion: 43 Resp: 976

Ion Ratio Lower Upper

43 100

74 29.5 18.9 28.3#



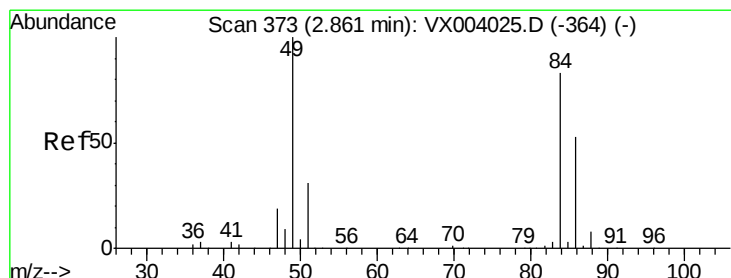
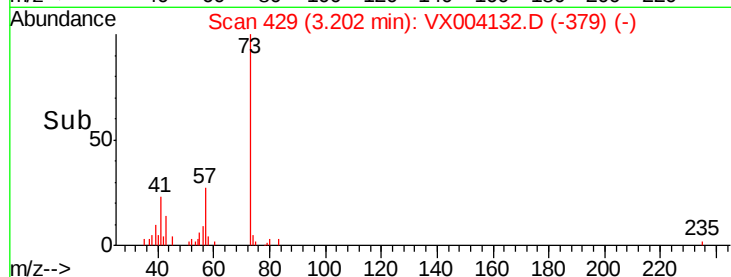
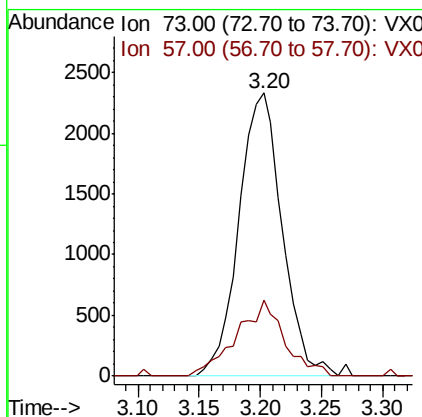
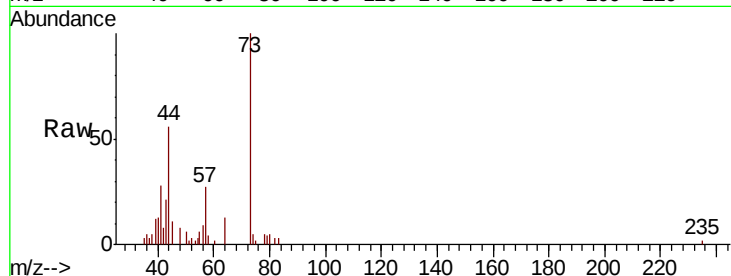


#19

Methyl tert-butyl Ether
 Concen: 0.60 ug/l
 RT: 3.20 min Scan# 429
 Delta R.T. 0.01 min
 Lab File: VX004132.D
 Acq: 17 Aug 2018 15:16

Instrument :
 MSVOA_X
 ClientSampled :

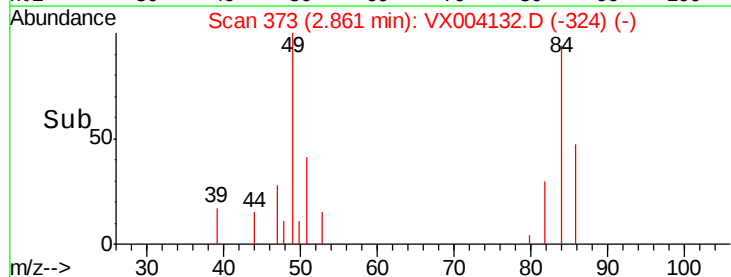
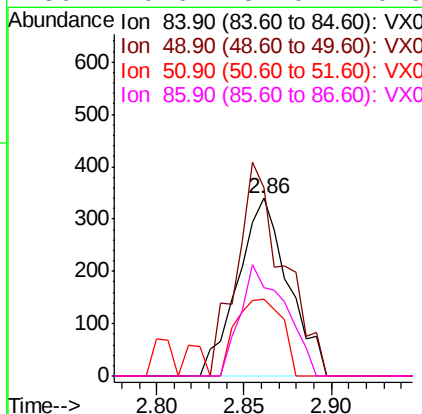
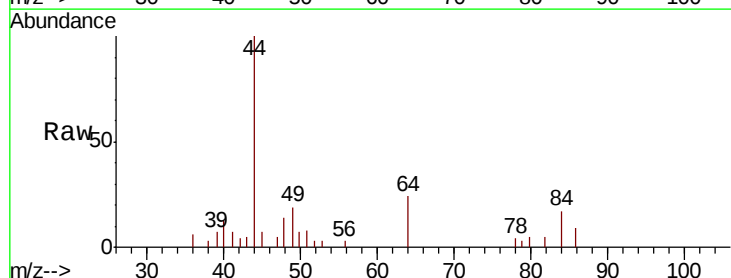
Tot Ion: 73 Resp: 5729
 Ion Ratio Lower Upper
 73 100
 57 26.9 18.0 27.0

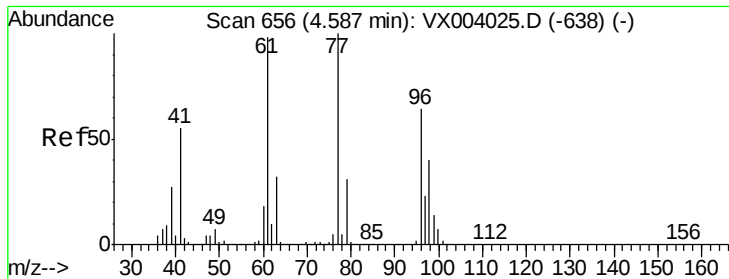


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VX004132.D
 Acq: 17 Aug 2018 15:16

Tgt Ion: 84 Resp: 684
 Ion Ratio Lower Upper
 84 100
 49 105.9 98.9 148.3
 51 43.4 29.9 44.9
 86 49.6 51.0 76.6#





#26

2,2-Dichloropropane

Concen: 0.30 ug/l

RT: 4.75 min Scan# 683

Delta R.T. 0.16 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

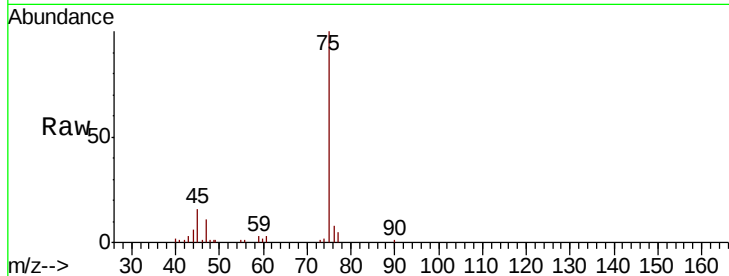
ClientSampleId :

Tot Ion: 77 Resp: 1351

Ion Ratio Lower Upper

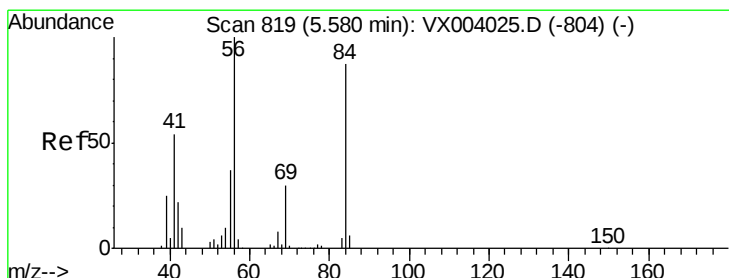
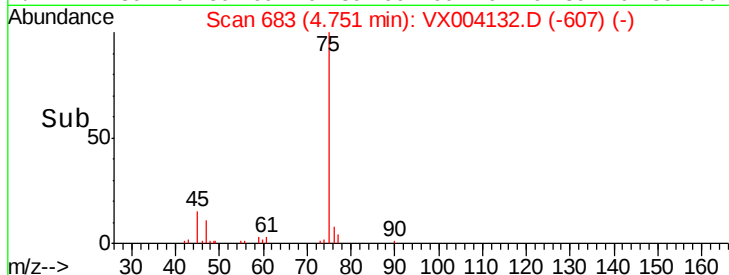
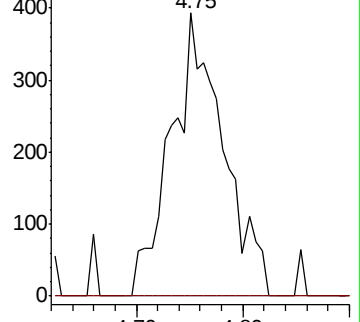
77 100

97 0.0 11.9 35.9#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 0.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

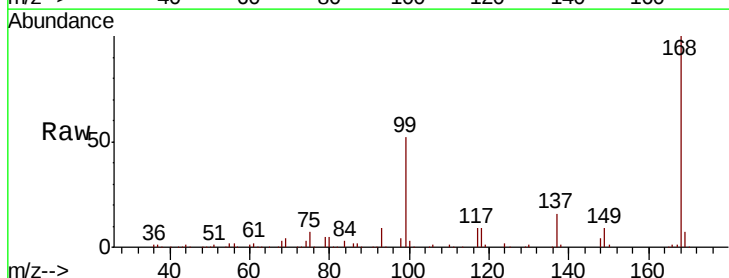
Tgt Ion: 56 Resp: 4680

Ion Ratio Lower Upper

56 100

69 210.1 24.9 37.3#

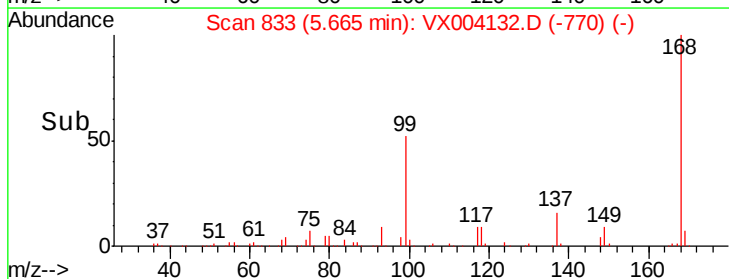
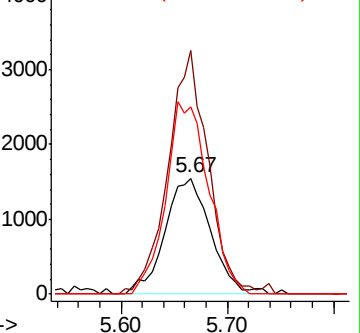
84 161.2 71.7 107.5#

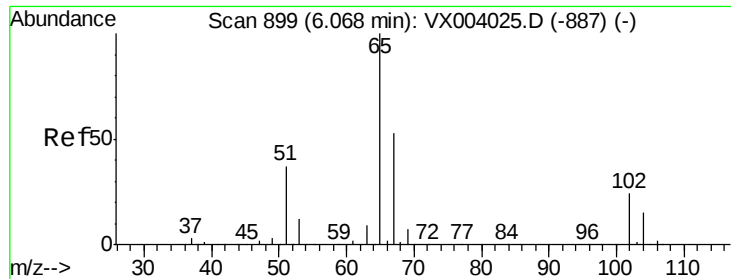


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

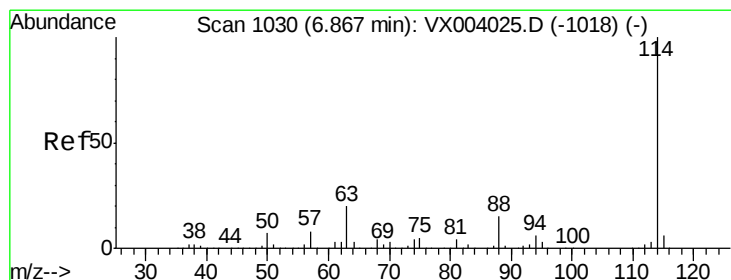
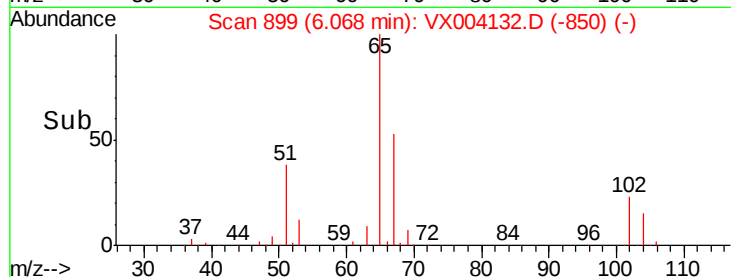
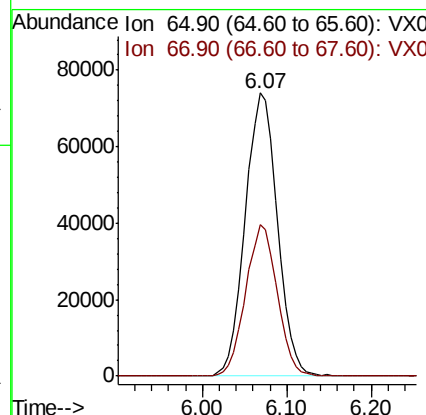
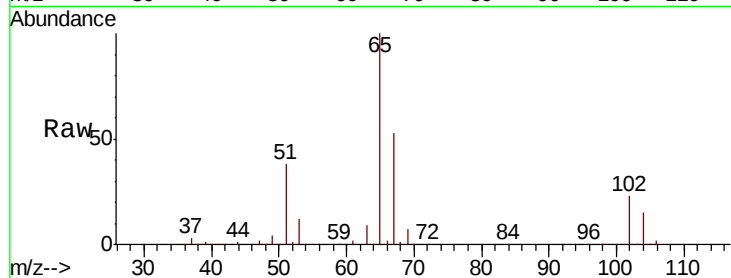




#33
 1,2-Dichloroethane-d4
 Concen: 53.10 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004132.D
 Acq: 17 Aug 2018 15:16

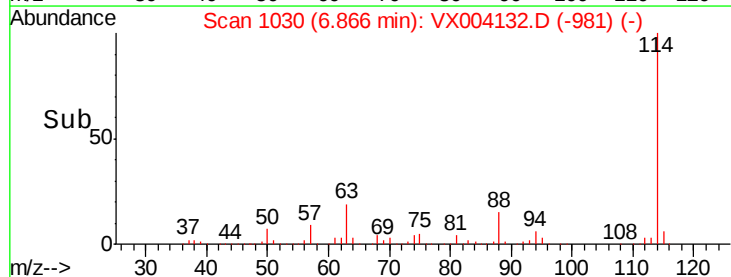
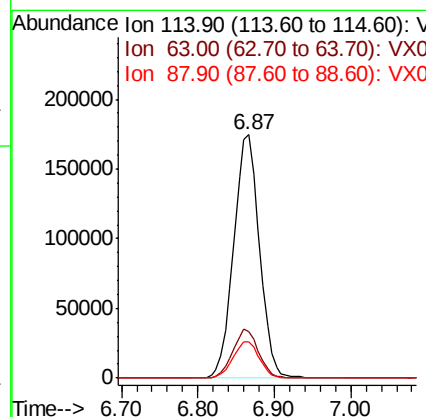
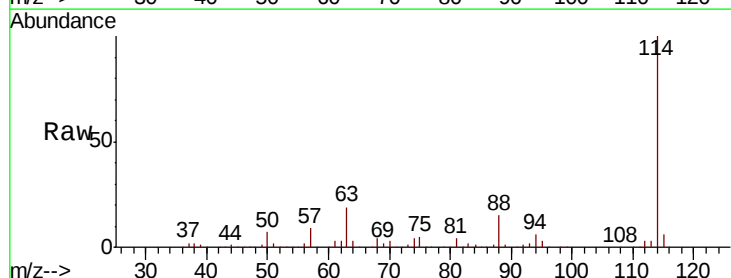
Instrument :
 MSVOA_X
 ClientSampleId :

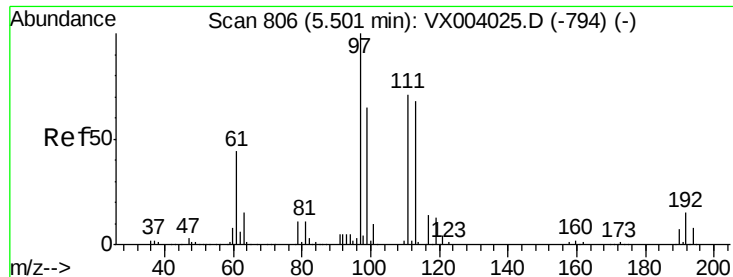
Tot Ion: 65 Resp: 191837
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004132.D
 Acq: 17 Aug 2018 15:16

Tgt Ion: 114 Resp: 406897
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.0
 88 15.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 53.83 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

ClientSampleId :

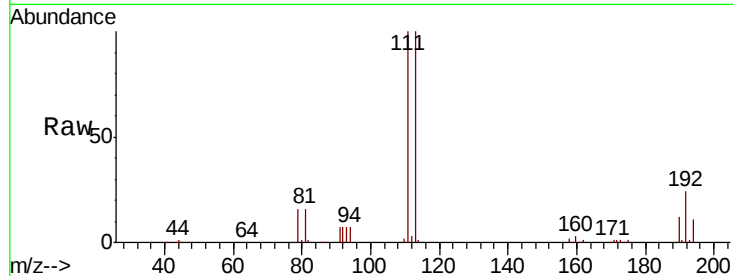
Tot Ion:113 Resp: 163922

Ion Ratio Lower Upper

113 100

111 101.4 82.0 123.0

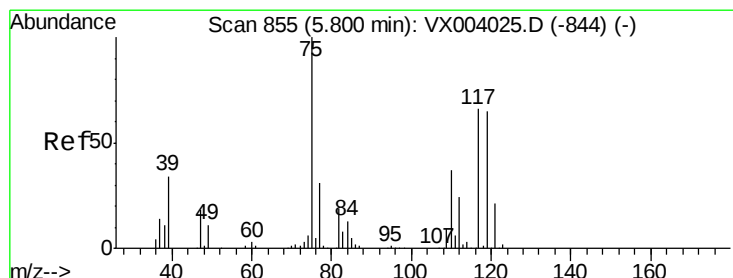
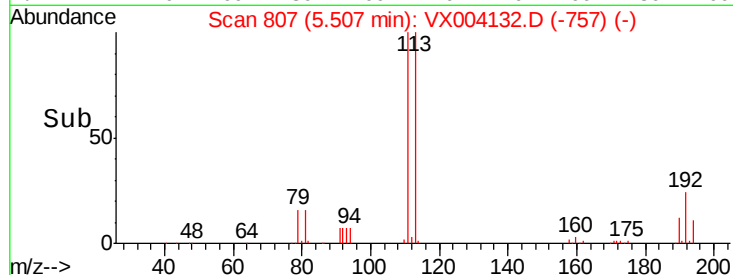
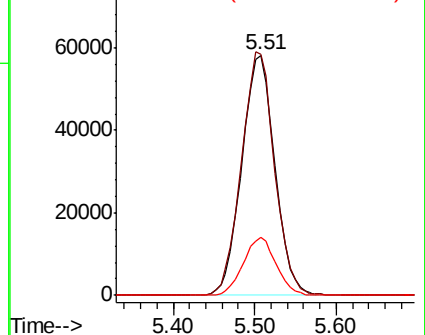
192 23.9 19.0 28.4



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: 3.92 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

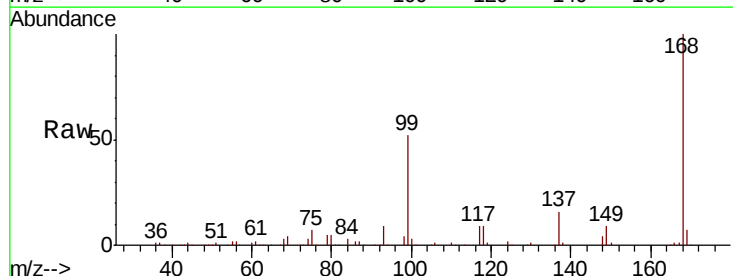
Tgt Ion: 75 Resp: 18136

Ion Ratio Lower Upper

75 100

110 9.0 18.2 54.6#

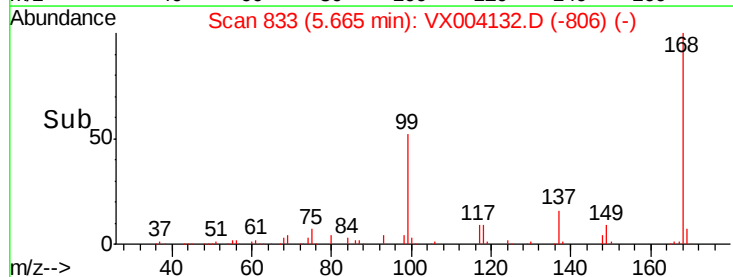
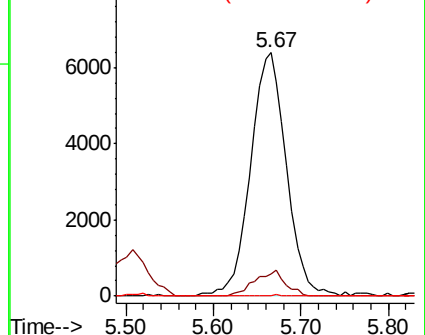
77 0.1 25.0 37.4#

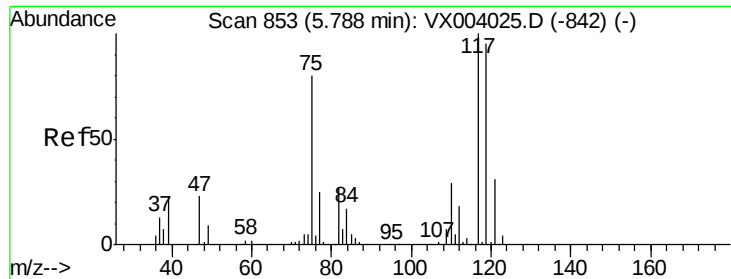


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

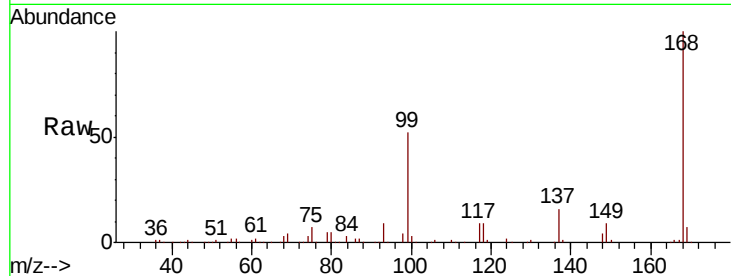
Tot Ion:117 Resp: 22784

Ion Ratio Lower Upper

117 100

119 7.1 79.5 119.3#

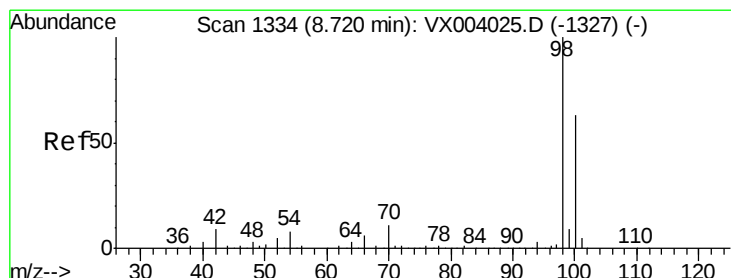
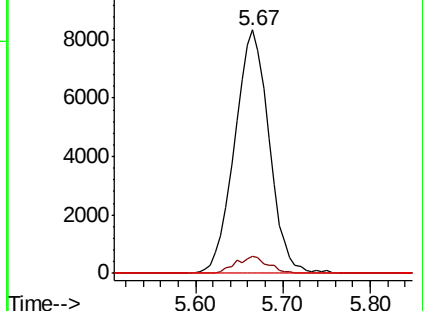
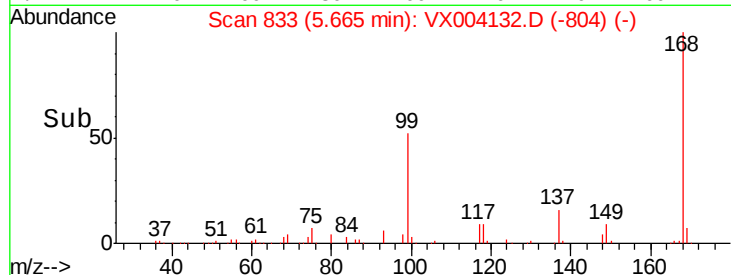
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 46.28 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004132.D

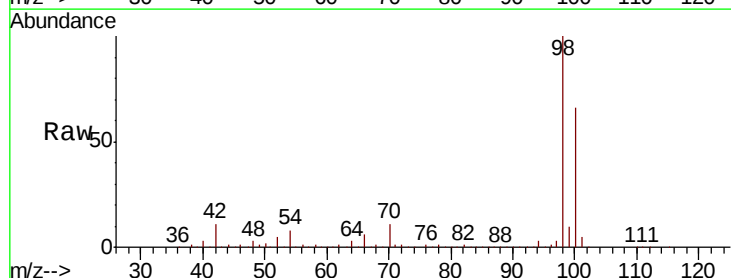
Acq: 17 Aug 2018 15:16

Tgt Ion: 98 Resp: 571459

Ion Ratio Lower Upper

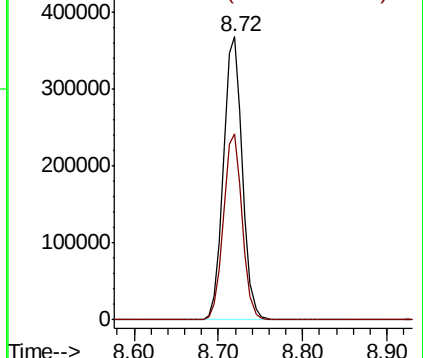
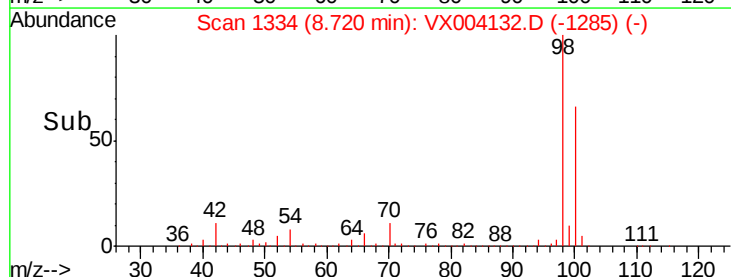
98 100

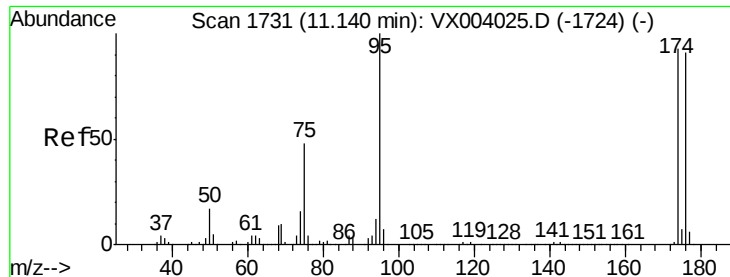
100 65.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

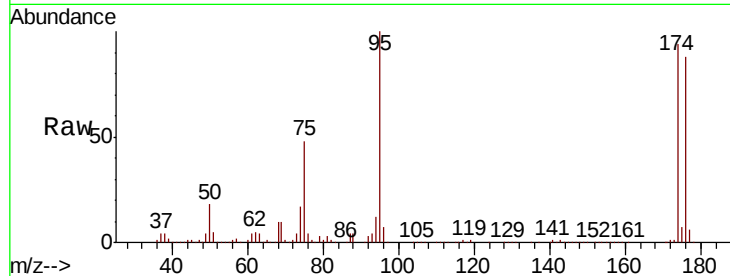




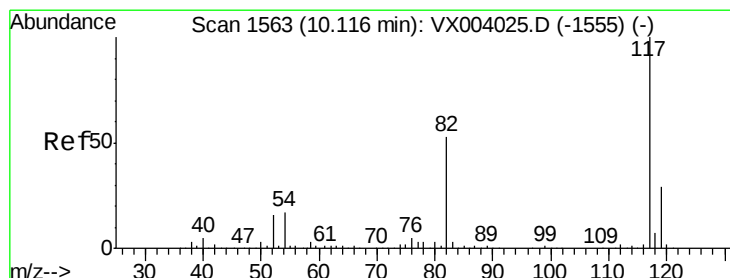
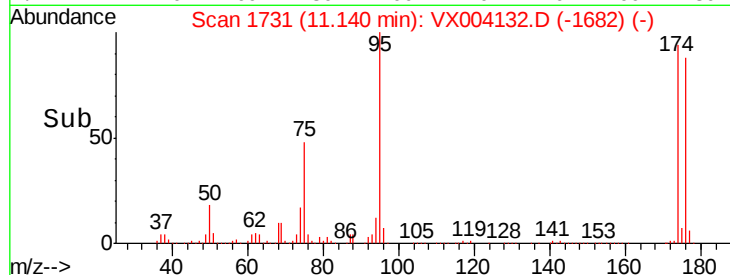
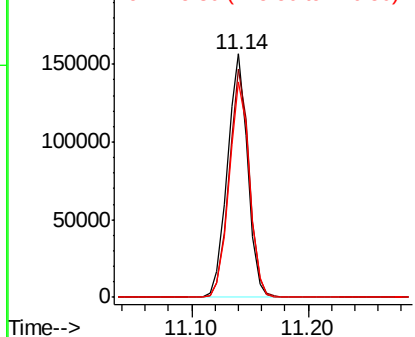
#62
4-Bromofluorobenzene
Concen: 42.05 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004132.D
Acq: 17 Aug 2018 15:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 188290
Ion Ratio Lower Upper
95 100
174 94.2 0.0 182.8
176 90.0 0.0 179.0

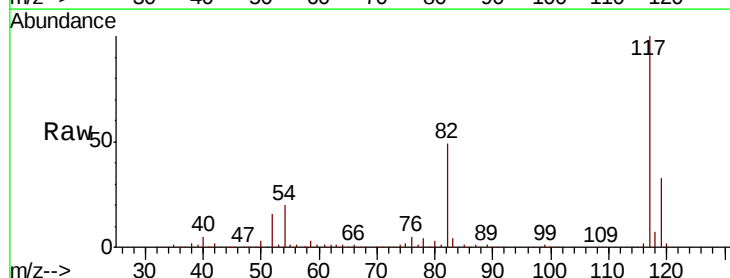


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

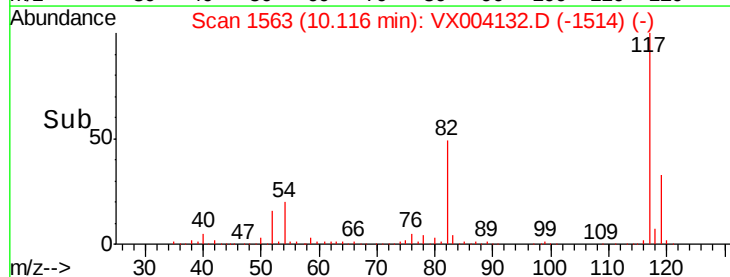
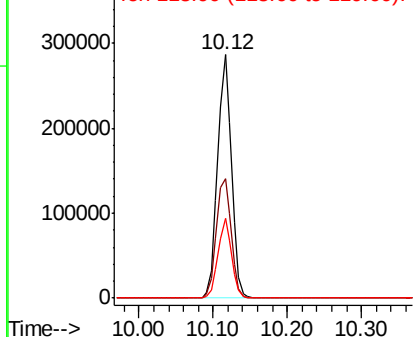


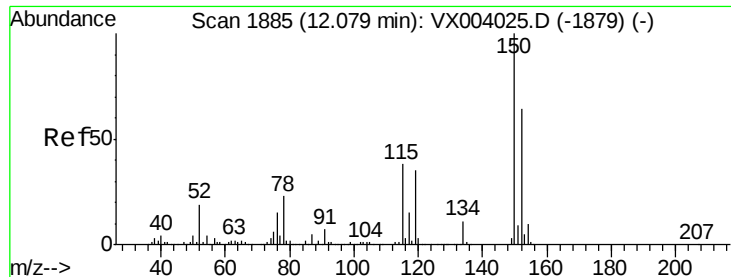
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004132.D
Acq: 17 Aug 2018 15:16

Tgt Ion: 117 Resp: 364733
Ion Ratio Lower Upper
117 100
82 48.9 45.4 68.0
119 32.5 26.6 40.0



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

ClientSampleId :

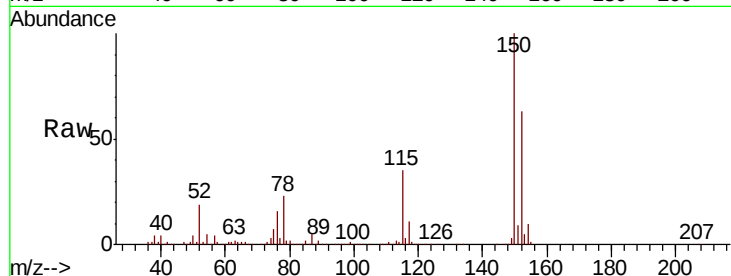
Tot Ion:152 Resp: 203341

Ion Ratio Lower Upper

152 100

115 54.0 39.1 117.3

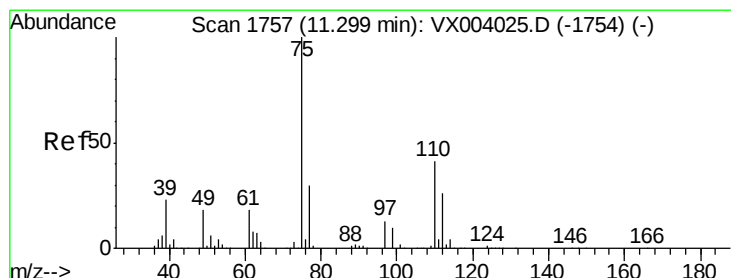
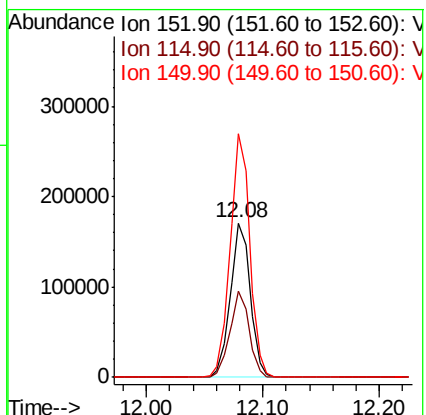
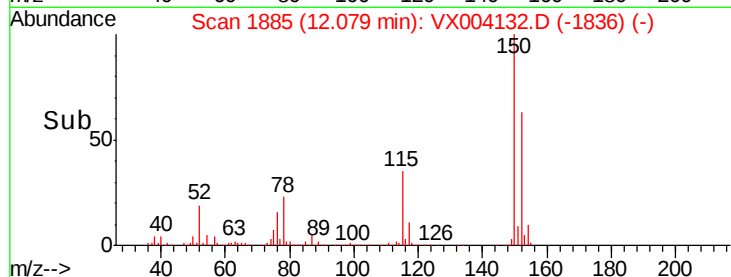
150 156.1 0.0 349.2



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: 22.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004132.D

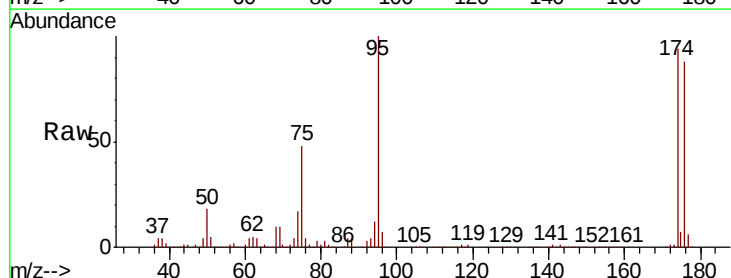
Acq: 17 Aug 2018 15:16

Tgt Ion: 75 Resp: 91462

Ion Ratio Lower Upper

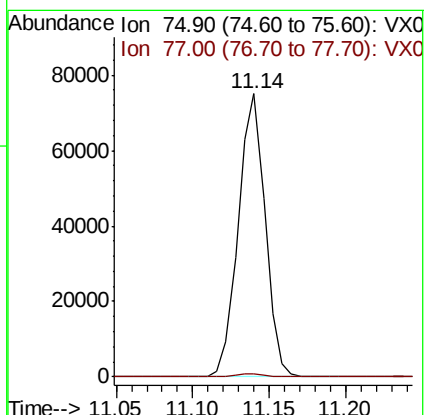
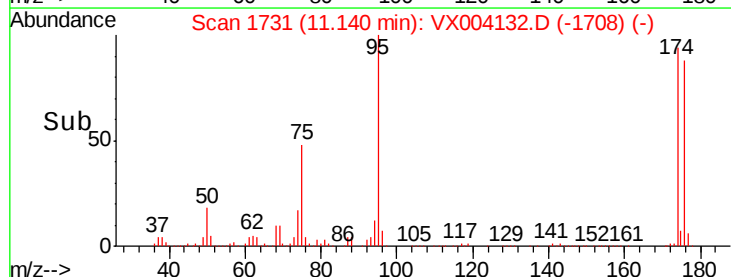
75 100

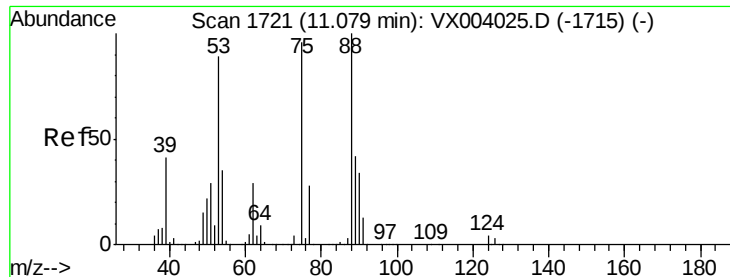
77 1.3 20.8 62.5#



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: 69.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

Instrument :

MSVOA_X

ClientSampled :

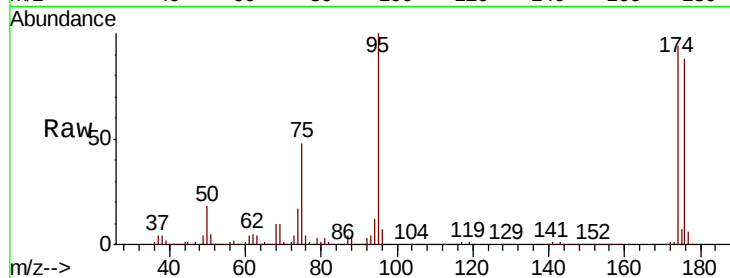
Tot Ion: 75 Resp: 91462

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

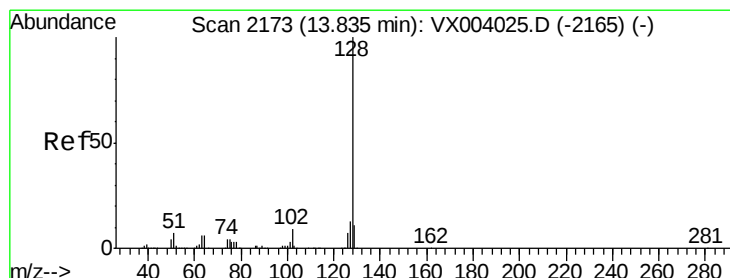
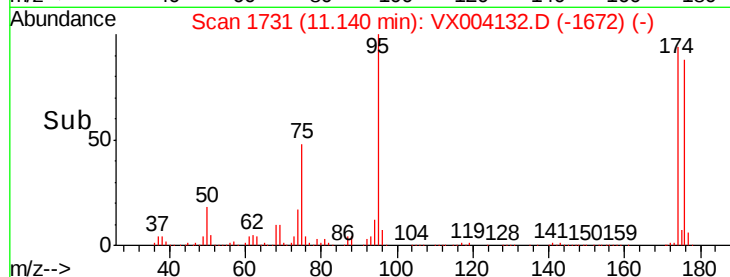
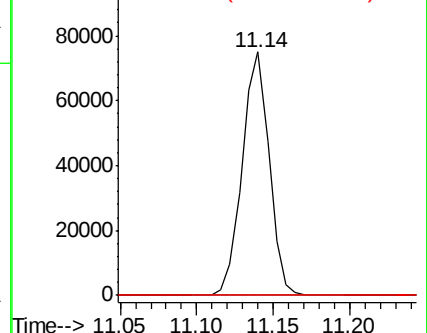
89 0.0 37.8 56.8#



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



#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004132.D

Acq: 17 Aug 2018 15:16

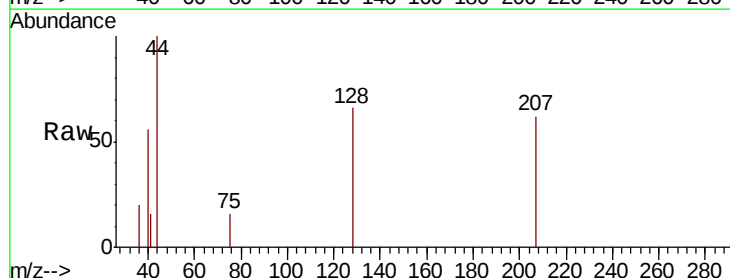
Tgt Ion: 128 Resp: 279

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

