

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005346.D
 Acq On : 15 Oct 2018 16:21
 Operator : JC/MD
 Sample : PB113825ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:37:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	260969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	387109	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.12	117	349357	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	164442	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	161161	55.64	ug/l	0.00
Spiked Amount			Recovery	=	111.28%	
35) Dibromofluoromethane	5.51	113	121407	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
50) Toluene-d8	8.72	98	456527	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
62) 4-Bromofluorobenzene	11.14	95	146655	44.35	ug/l	0.00
Spiked Amount			Recovery	=	88.70%	

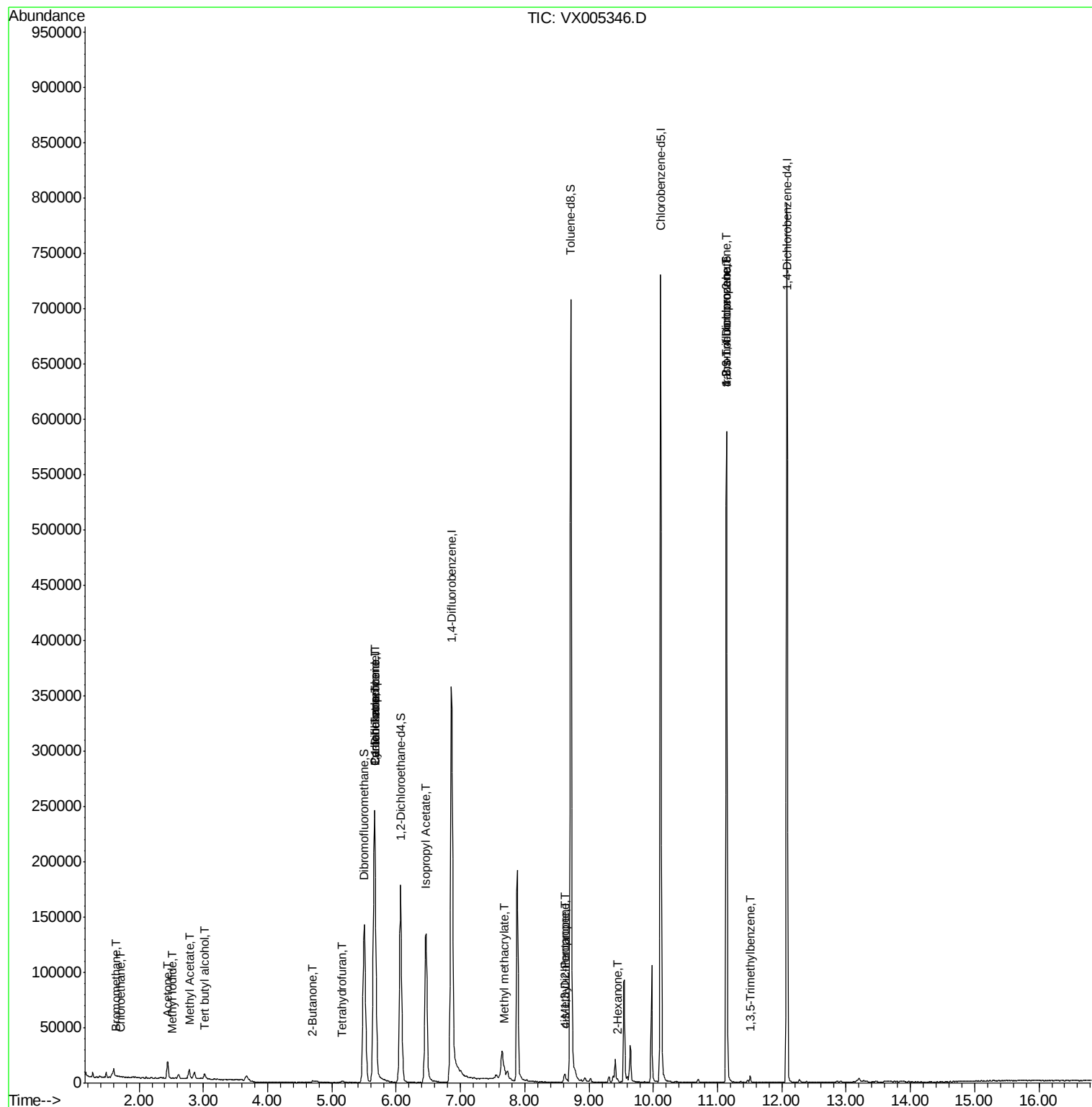
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	159	0.677	ug/l #	38
6) Chloroethane	1.71	64	212	0.443	ug/l #	44
10) Methyl Iodide	2.52	142	47	2.506	ug/l #	1
11) Tert butyl alcohol	3.01	59	2775	3.397	ug/l #	72
13) Acrolein	2.29	56	128	Below Cal	#	1
16) Acetone	2.45	43	17045	10.178	ug/l	97
18) Methyl Acetate	2.78	43	10312	2.164	ug/l	97
20) Methylene Chloride	2.86	84	2732	Below Cal		90
25) 2-Butanone	4.70	43	1306	0.533	ug/l #	88
29) Tetrahydrofuran	5.16	42	1300	0.832	ug/l	89
31) Cyclohexane	5.66	56	4694	1.179	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17380	4.636	ug/l #	49
38) Carbon Tetrachloride	5.66	117	22753	6.040	ug/l #	14
43) Isopropyl Acetate	6.46	43	184906	28.790	ug/l	97
44) Trichloroethene	7.22	130	208	Below Cal		81
48) Methyl methacrylate	7.69	41	8480	2.546	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	3739	0.841	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1135	0.287	ug/l #	72
59) 2-Hexanone	9.44	43	1377	0.385	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	72894	22.853	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2237	0.267	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.14	75	72894	69.438	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

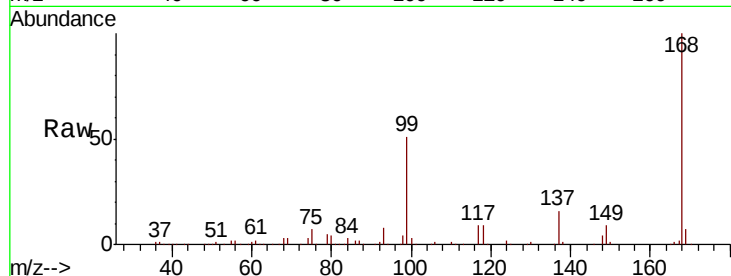
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 260969

Ion Ratio Lower Upper

168 100

99 50.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

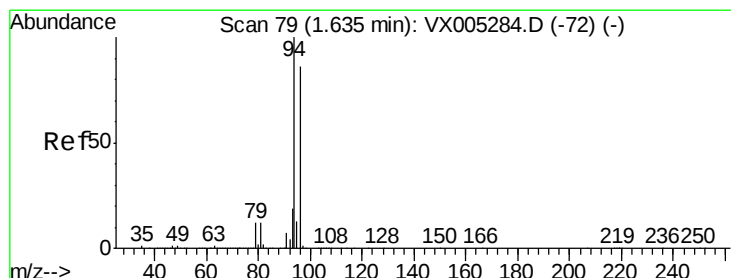
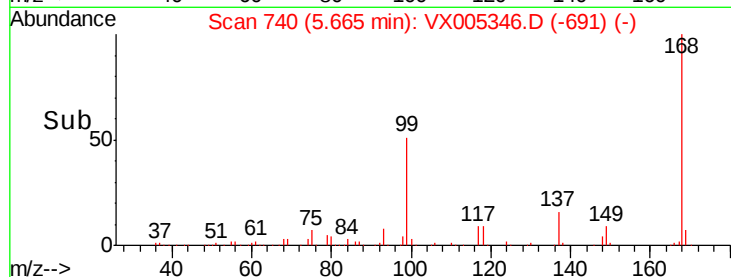
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.677 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005346.D

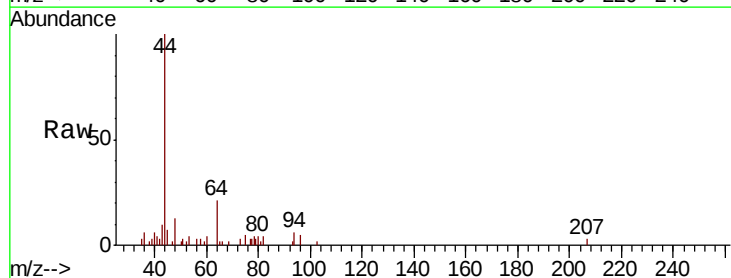
Acq: 15 Oct 2018 16:21

Tgt Ion: 94 Resp: 159

Ion Ratio Lower Upper

94 100

96 33.3 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

150

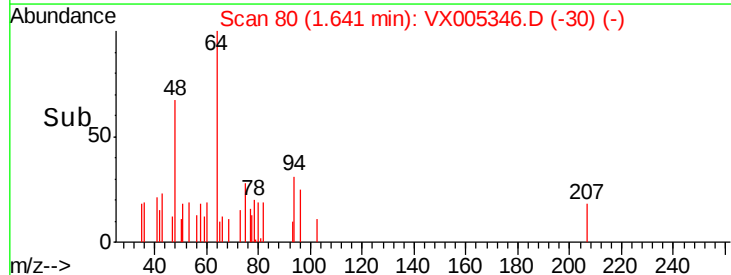
100

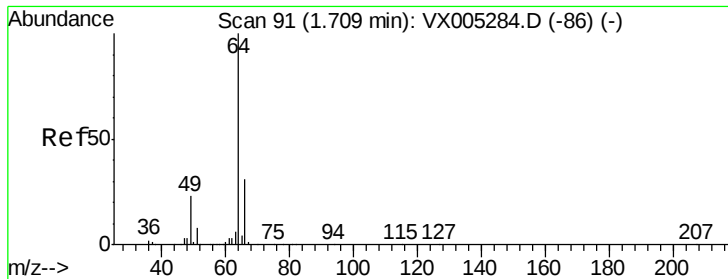
50

0

Time-->

1.64 1.66





#6

Chloroethane

Concen: 0.443 ug/l

RT: 1.71 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

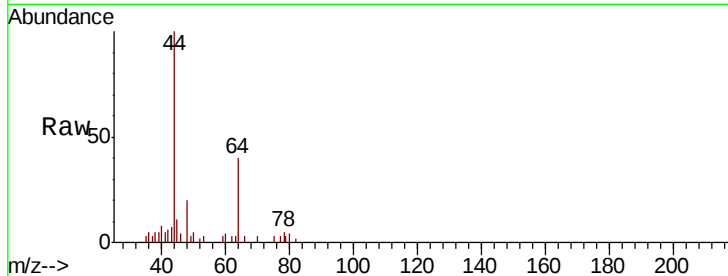
ClientSampleId :

Tot Ion: 64 Resp: 212

Ion Ratio Lower Upper

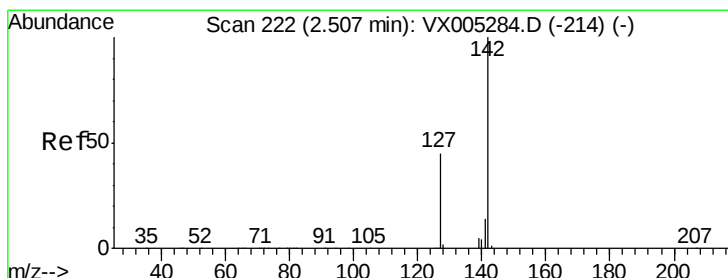
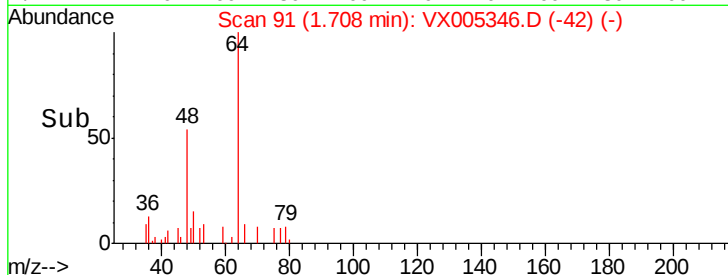
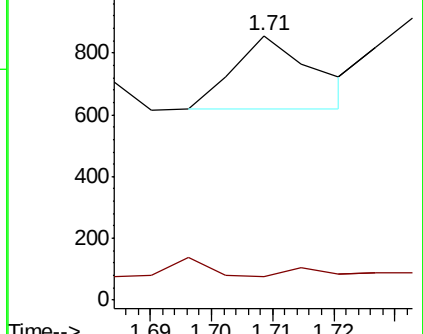
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.506 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

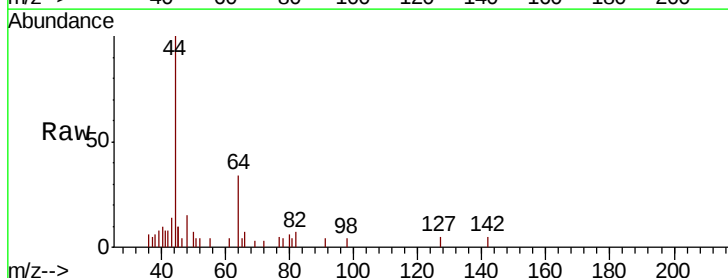
Tgt Ion: 142 Resp: 47

Ion Ratio Lower Upper

142 100

127 159.6 33.8 50.6#

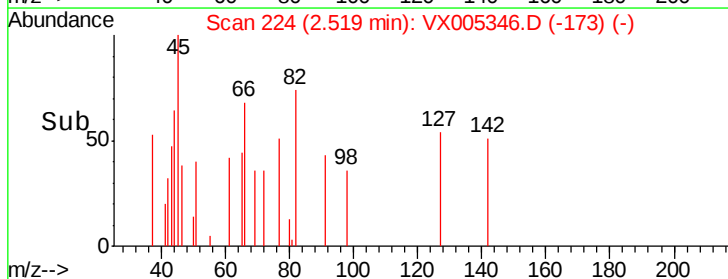
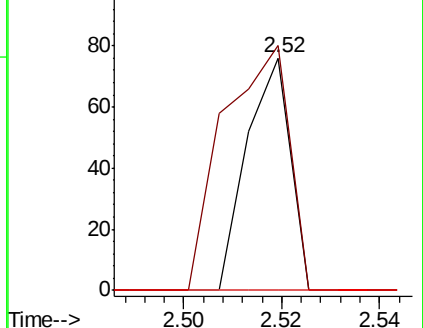
141 0.0 11.4 17.0#

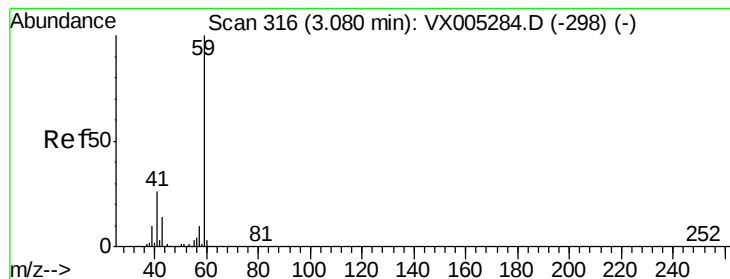


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



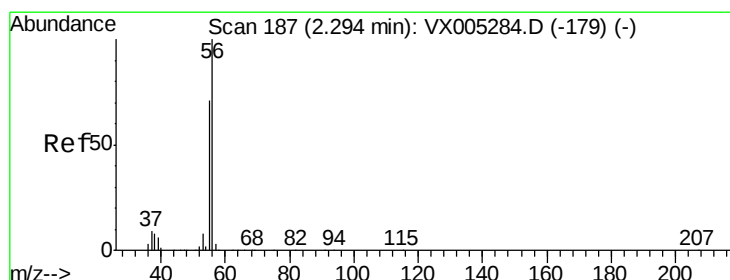
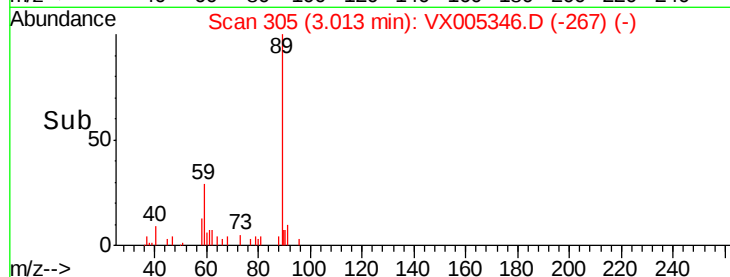
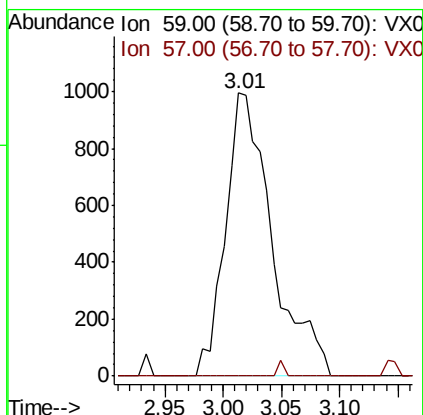
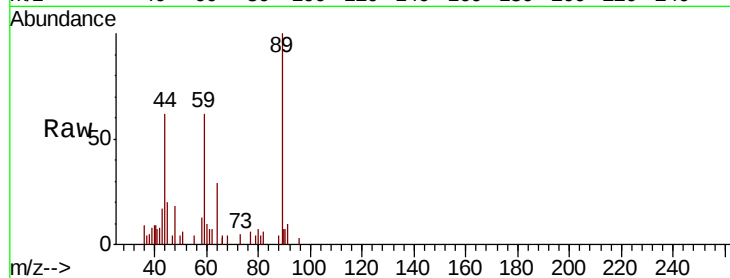


#11

Tert butyl alcohol
 Concen: 3.397 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.07 min
 Lab File: VX005346.D
 Acq: 15 Oct 2018 16:21

Instrument :
 MSVOA_X
 ClientSampled :

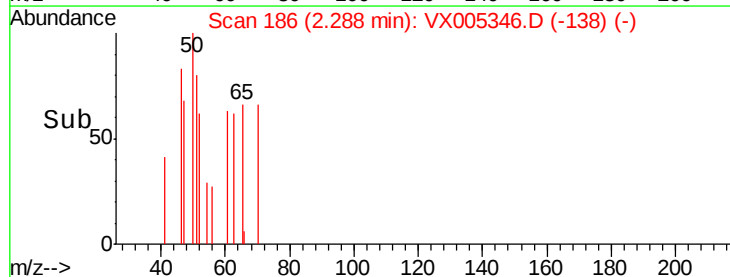
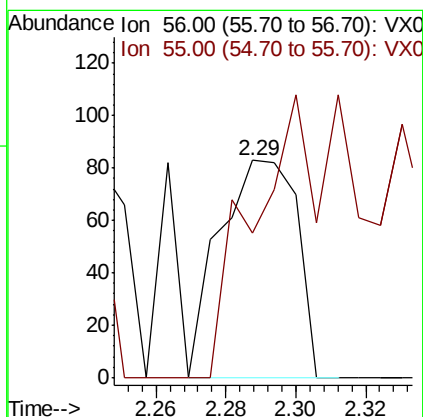
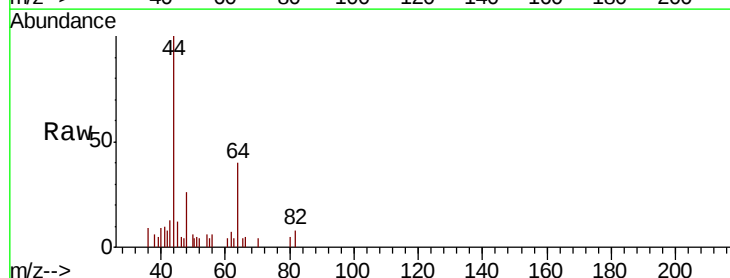
Tot Ion: 59 Resp: 2775
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

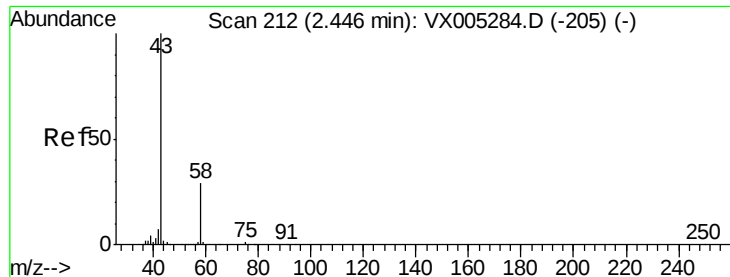


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005346.D
 Acq: 15 Oct 2018 16:21

Tgt Ion: 56 Resp: 128
 Ion Ratio Lower Upper
 56 100
 55 168.0 54.7 82.1#





#16

Acetone

Concen: 10.178 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

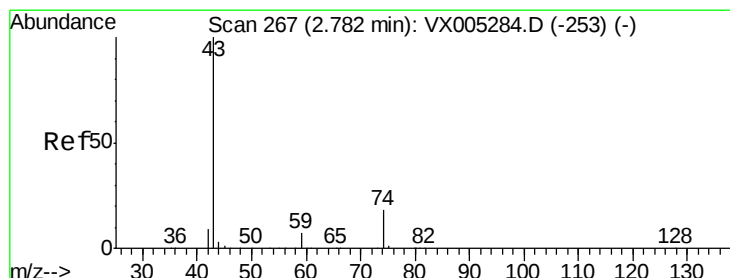
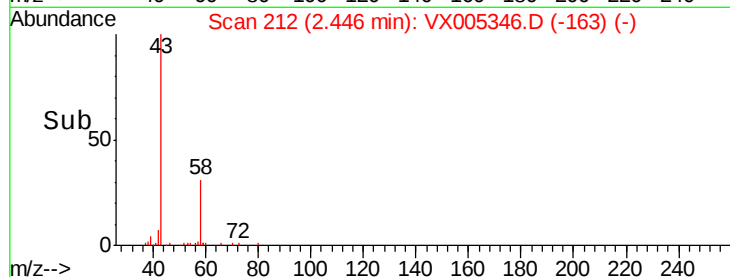
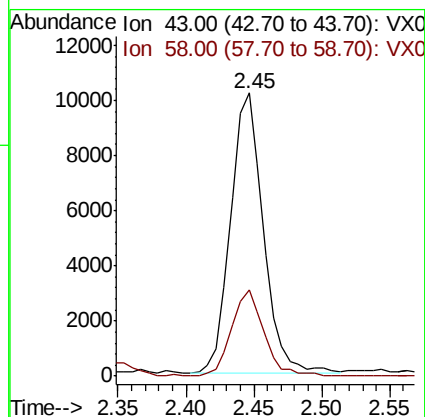
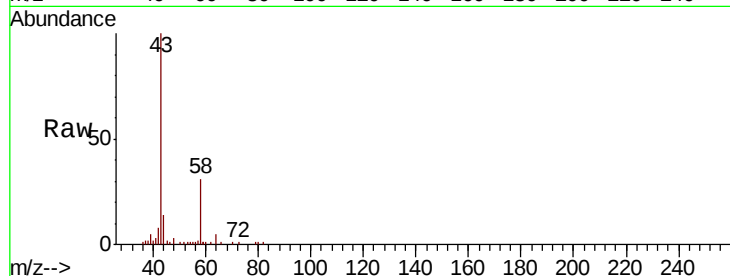
ClientSampleId :

Tot Ion: 43 Resp: 17045

Ion Ratio Lower Upper

43 100

58 30.9 26.2 39.4



#18

Methyl Acetate

Concen: 2.164 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005346.D

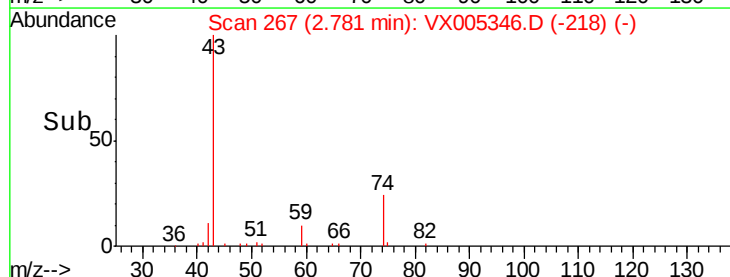
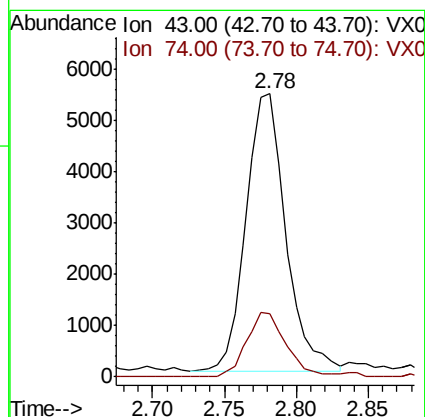
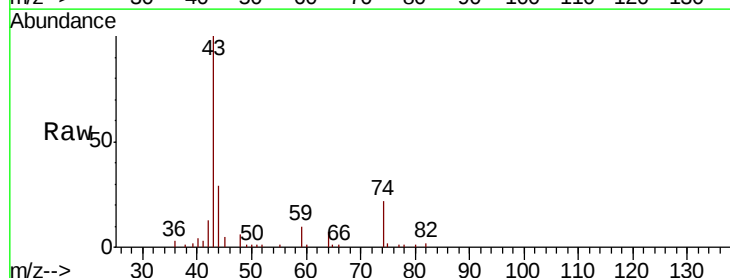
Acq: 15 Oct 2018 16:21

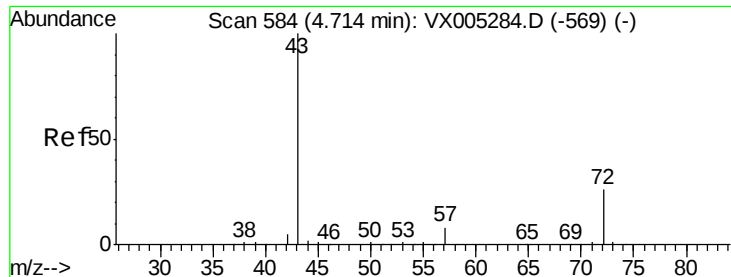
Tgt Ion: 43 Resp: 10312

Ion Ratio Lower Upper

43 100

74 23.0 19.4 29.2





#25

2-Butanone

Concen: 0.533 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.02 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

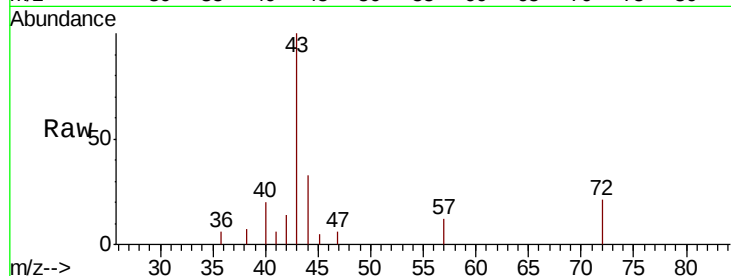
ClientSampled :

Tot Ion: 43 Resp: 1306

Ion Ratio Lower Upper

43 100

72 21.3 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

800

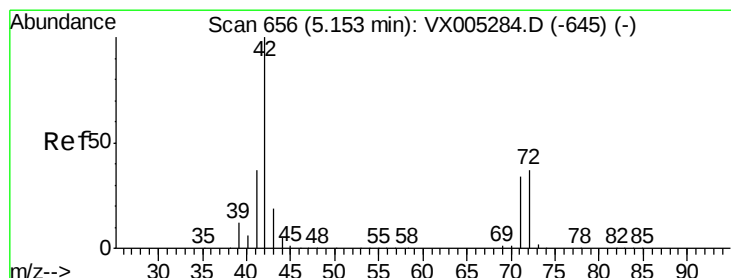
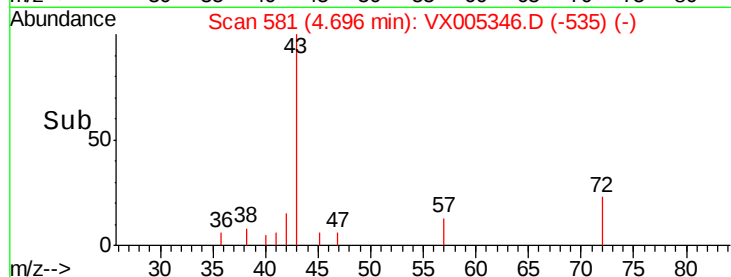
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.832 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

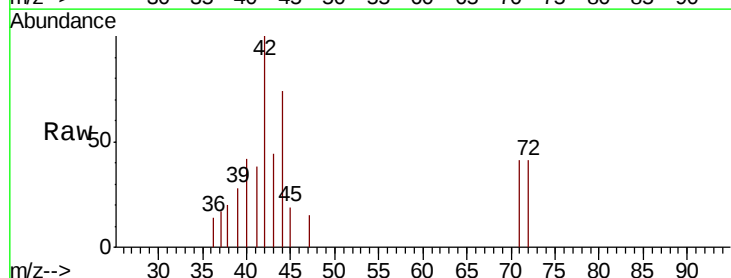
Tgt Ion: 42 Resp: 1300

Ion Ratio Lower Upper

42 100

72 39.9 37.4 56.0

71 35.6 34.5 51.7



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

500

400

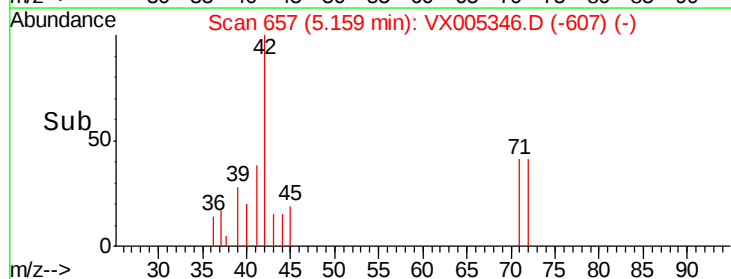
300

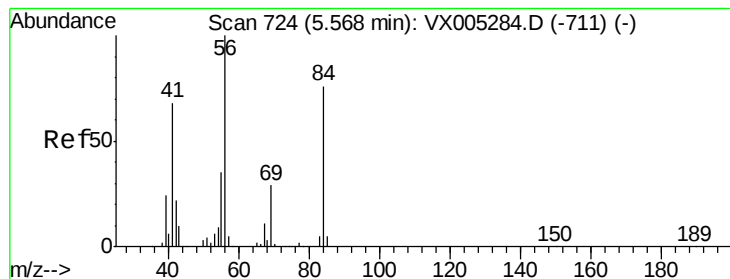
200

100

0

Time-->





#31

Cyclohexane

Concen: 1.179 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

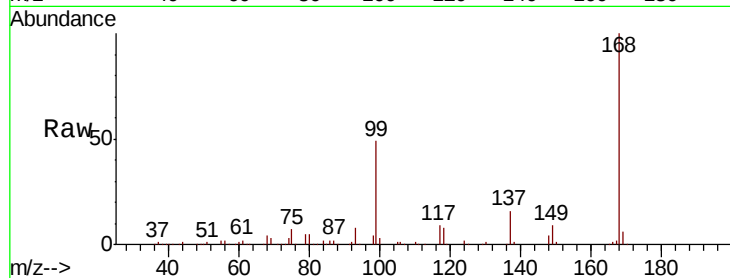
Tot Ion: 56 Resp: 4694

Ion Ratio Lower Upper

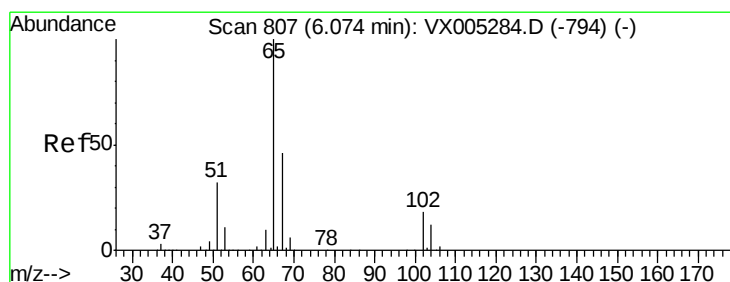
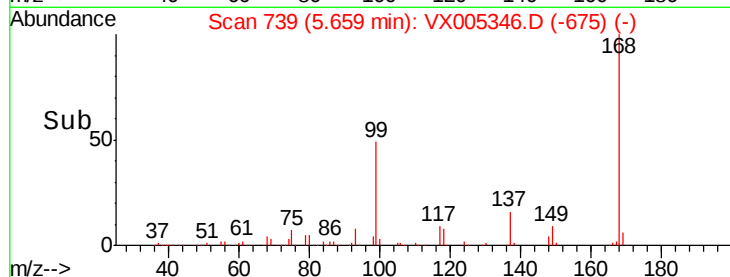
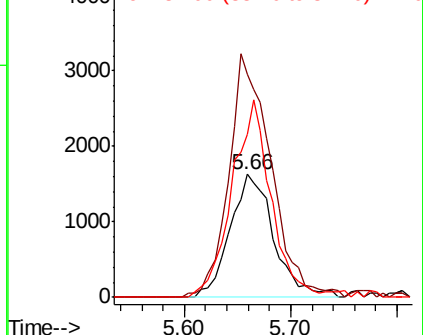
56 100

69 179.1 25.4 38.2#

84 133.3 71.4 107.2#



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: 55.643 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005346.D

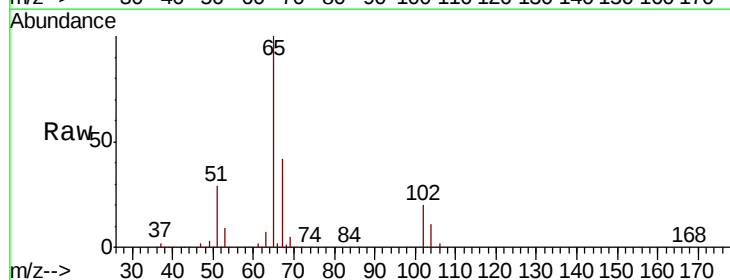
Acq: 15 Oct 2018 16:21

Tgt Ion: 65 Resp: 161161

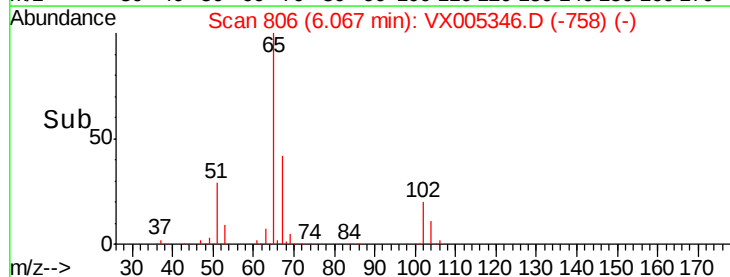
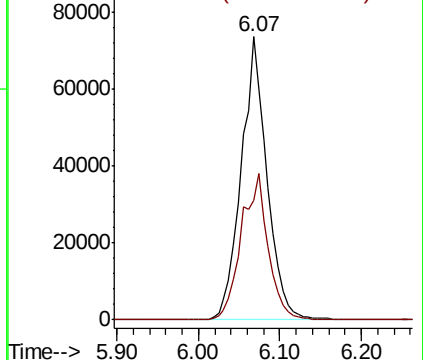
Ion Ratio Lower Upper

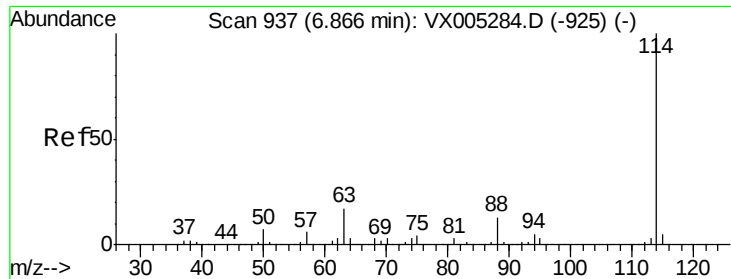
65 100

67 54.1 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

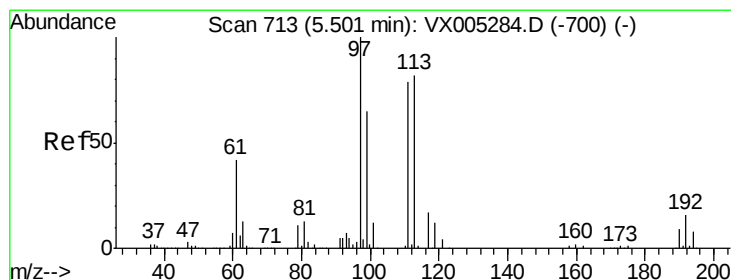
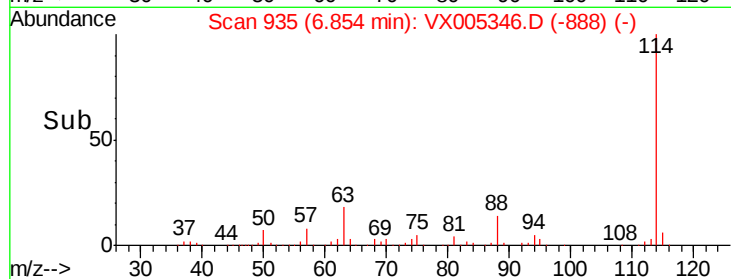
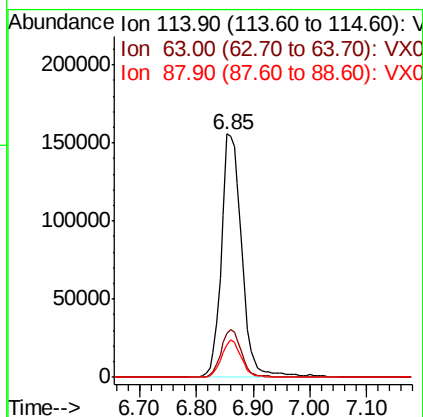
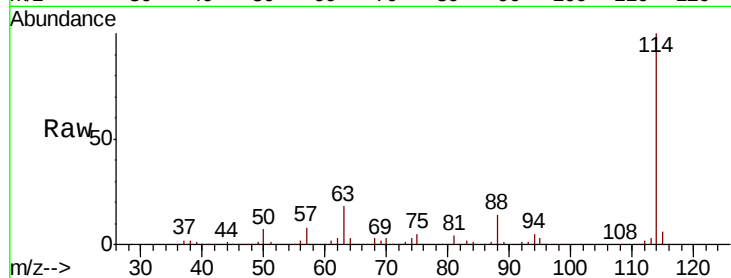




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.01 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

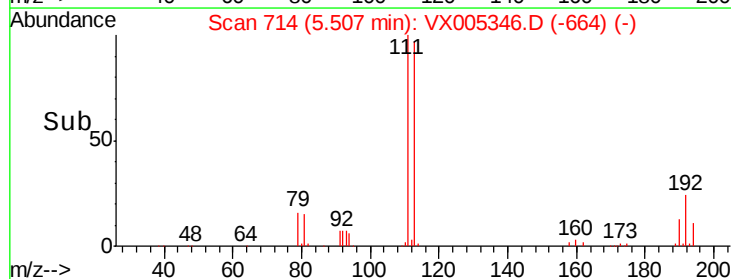
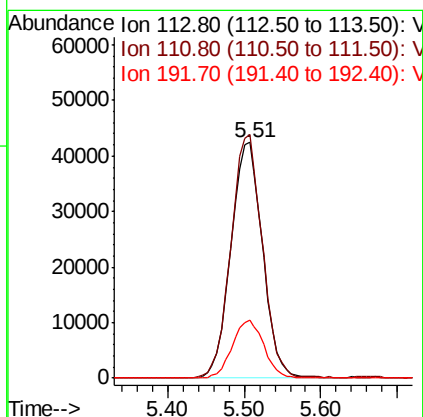
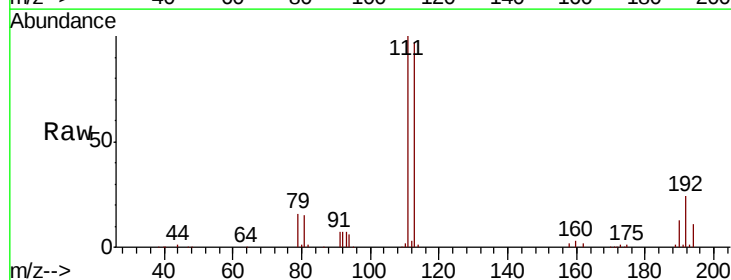
Instrument :
MSVOA_X
ClientSampleId :

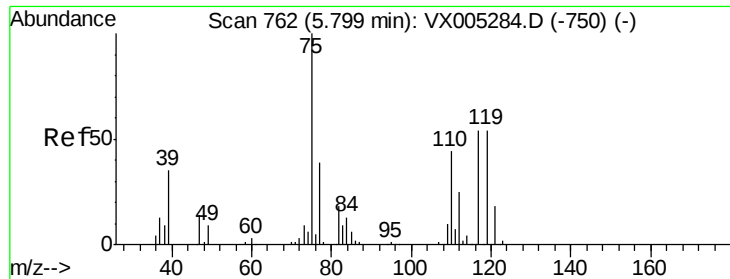
Tot Ion:114 Resp: 387109
Ion Ratio Lower Upper
114 100
63 18.0 0.0 39.0
88 13.5 0.0 30.4



#35
Dibromofluoromethane
Concen: 47.352 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

Tgt Ion:113 Resp: 121407
Ion Ratio Lower Upper
113 100
111 102.5 82.4 123.6
192 24.6 19.4 29.2





#36

1,1-Dichloropropene

Concen: 4.636 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

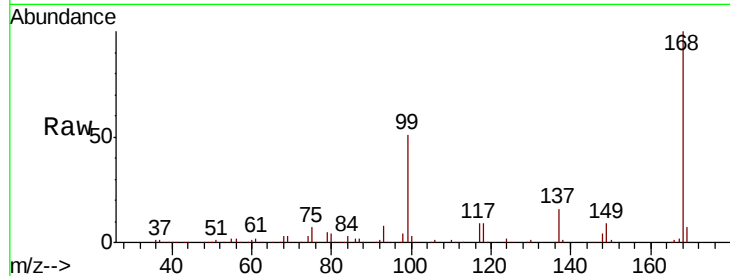
Tot Ion: 75 Resp: 17380

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

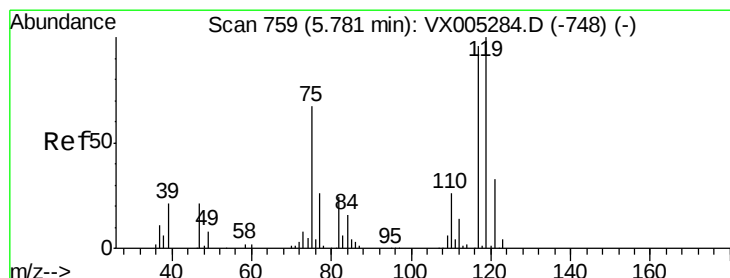
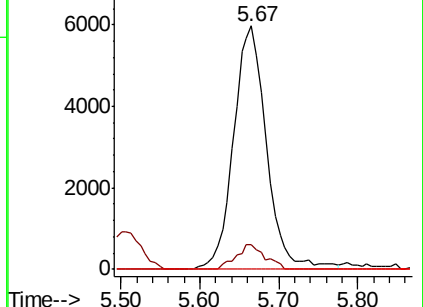
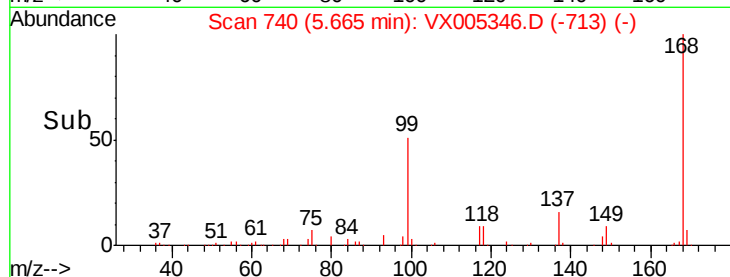
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX005346.D (-713) (-)

Ion 109.90 (109.60 to 110.60): VX005346.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX005346.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 6.040 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

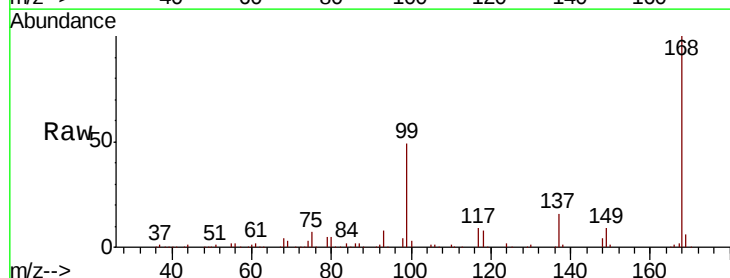
Tgt Ion: 117 Resp: 22753

Ion Ratio Lower Upper

117 100

119 4.1 78.8 118.2#

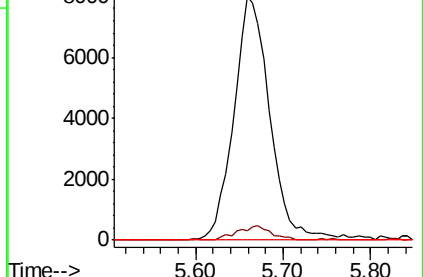
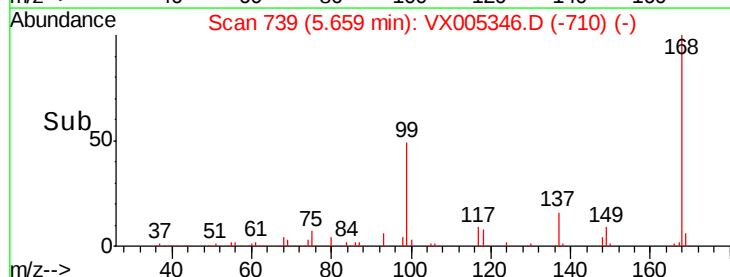
121 0.0 24.9 37.3#

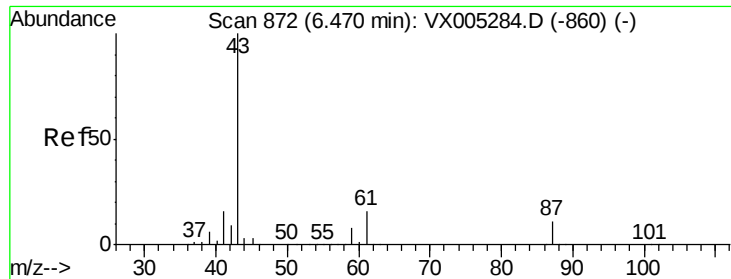


Abundance Ion 116.80 (116.50 to 117.50): VX005346.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX005346.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX005346.D (-710) (-)



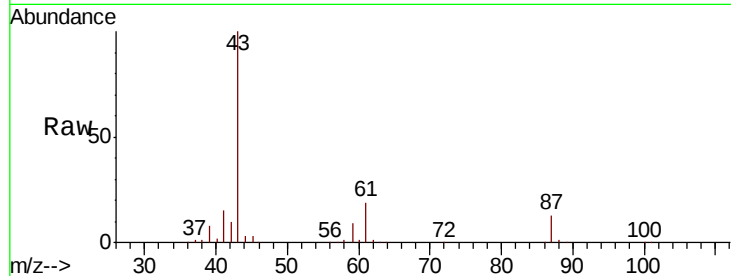


#43

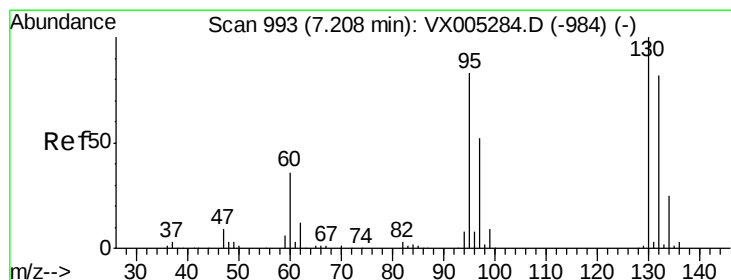
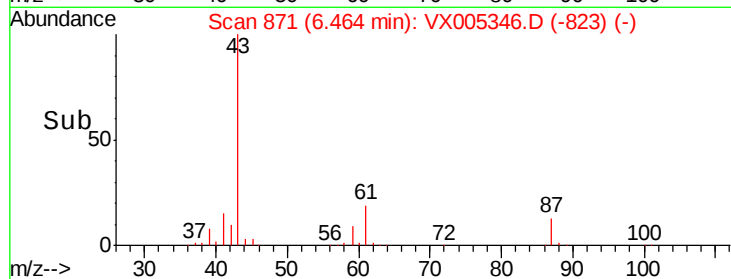
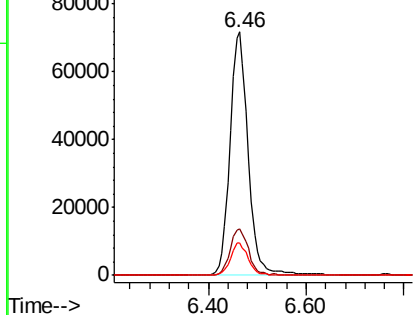
Isopropyl Acetate
 Concen: 28.790 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: VX005346.D
 Acq: 15 Oct 2018 16:21

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 43 Resp: 184906
 Ion Ratio Lower Upper
 43 100
 61 19.5 17.0 25.4
 87 13.0 11.4 17.2



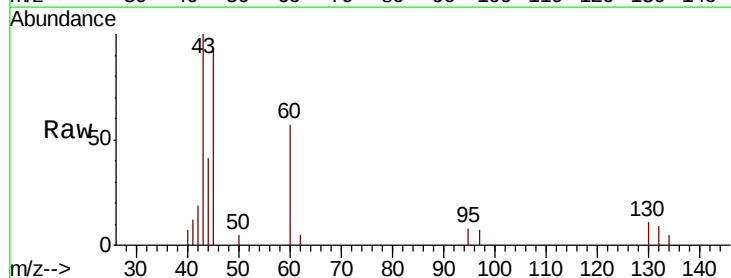
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



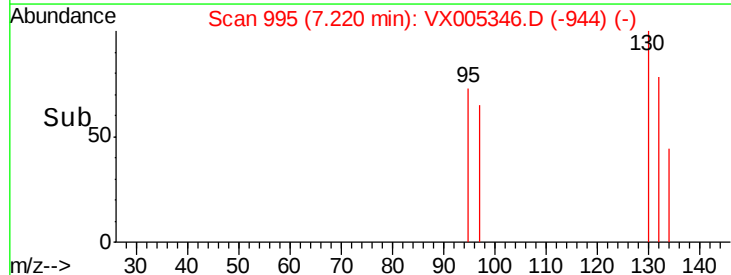
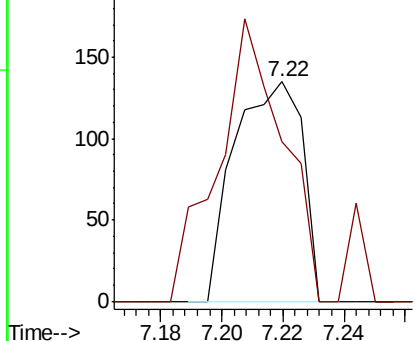
#44

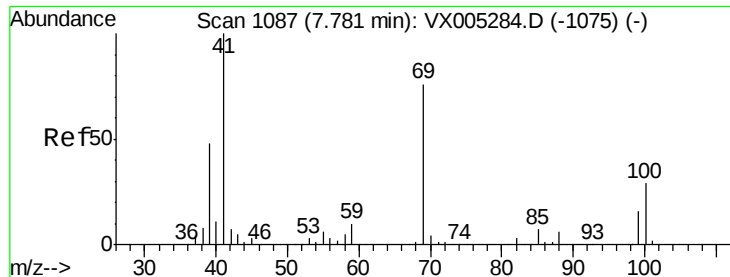
Trichloroethene
 Concen: Below Cal
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX005346.D
 Acq: 15 Oct 2018 16:21

Tgt Ion:130 Resp: 208
 Ion Ratio Lower Upper
 130 100
 95 72.6 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

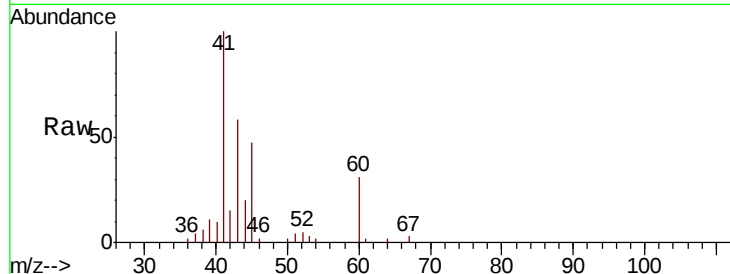




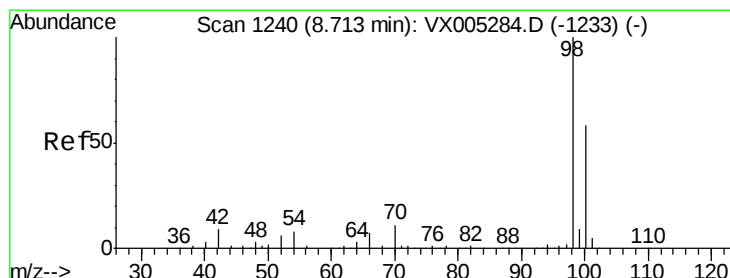
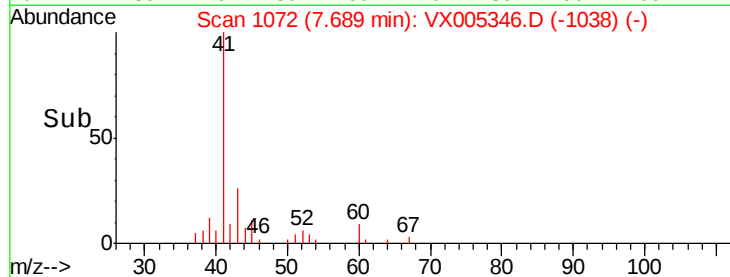
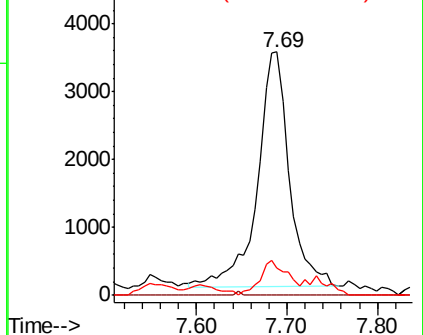
#48
Methyl methacrylate
Concen: 2.546 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 8480
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 12.7 42.7 64.1#

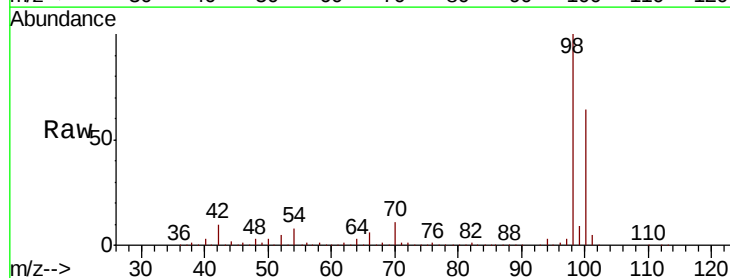


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

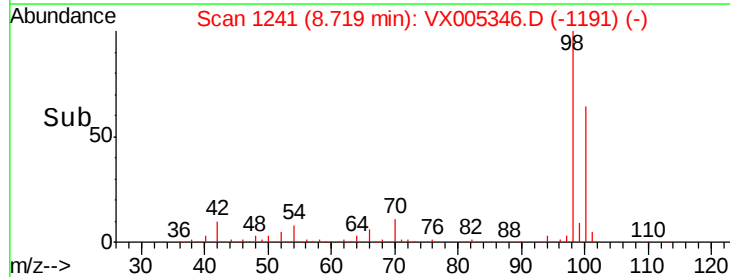
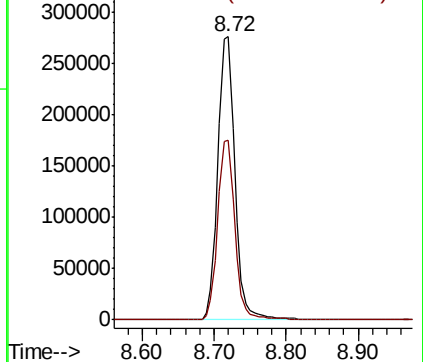


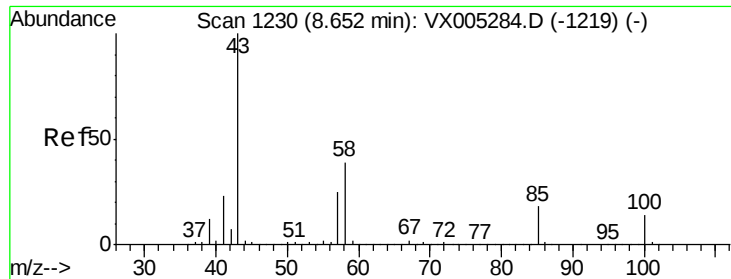
#50
Toluene-d8
Concen: 51.866 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

Tgt Ion: 98 Resp: 456527
Ion Ratio Lower Upper
98 100
100 63.8 52.9 79.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.841 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

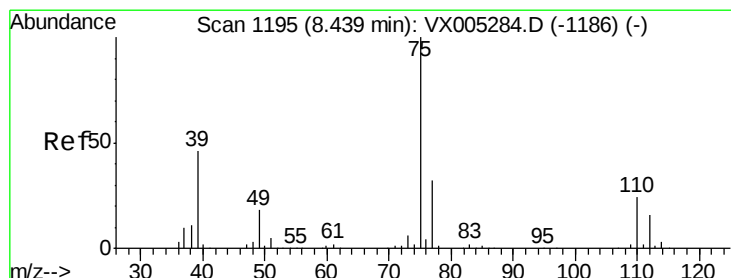
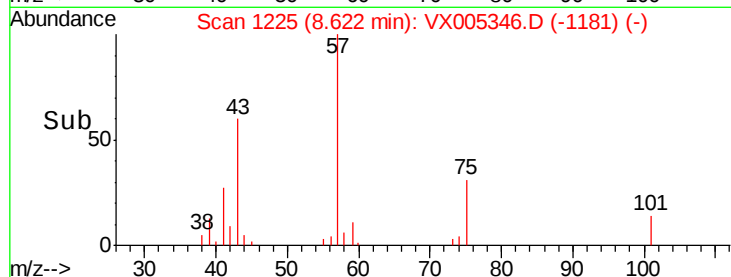
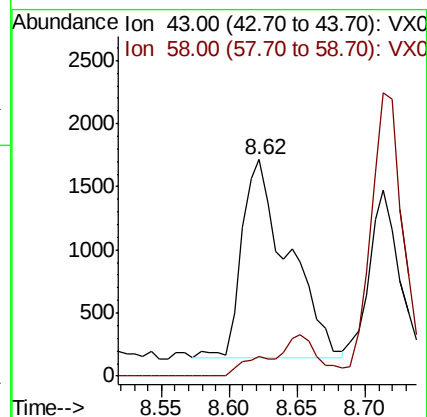
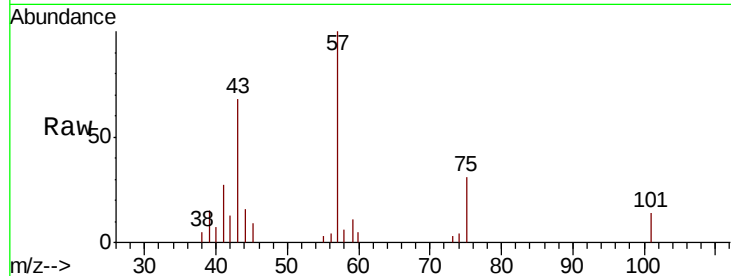
ClientSampled :

Tot Ion: 43 Resp: 3739

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.287 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

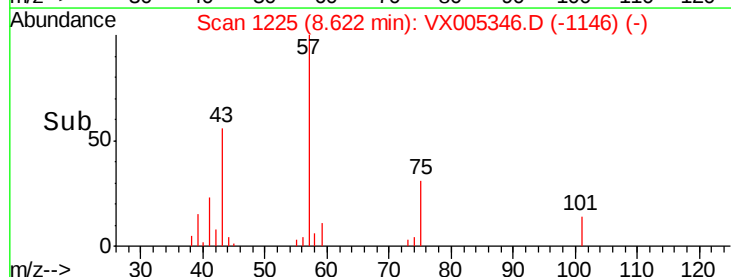
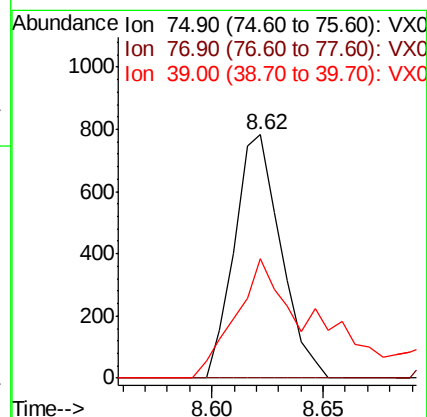
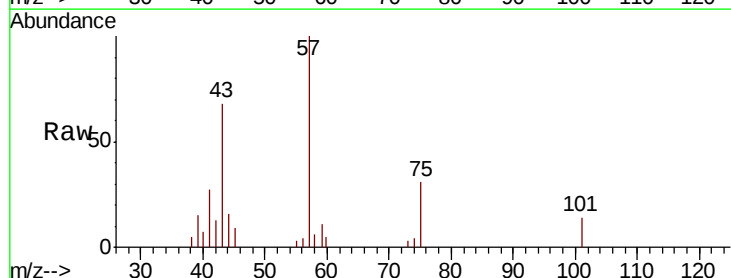
Tgt Ion: 75 Resp: 1135

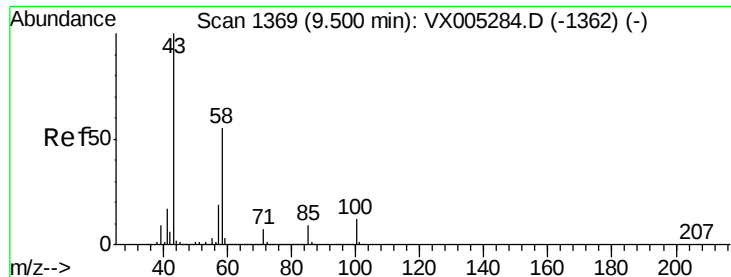
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 49.3 36.4 54.6

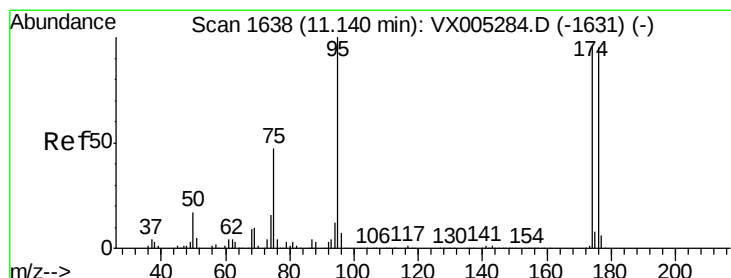
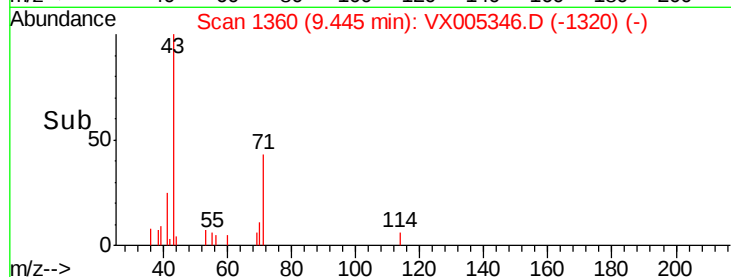
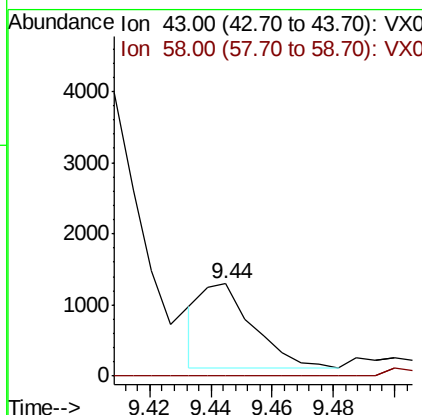
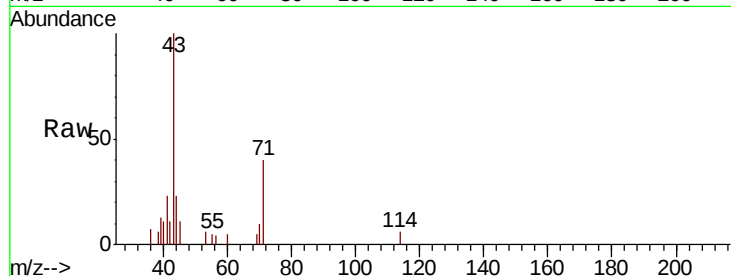




#59
2-Hexanone
Concen: 0.385 ug/l
RT: 9.44 min Scan# 1360
Delta R.T. -0.05 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

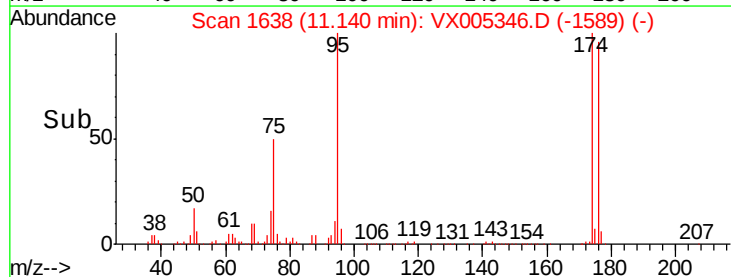
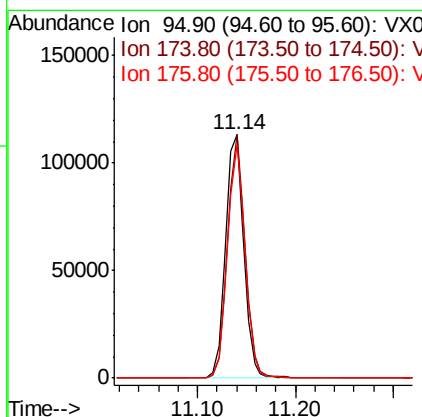
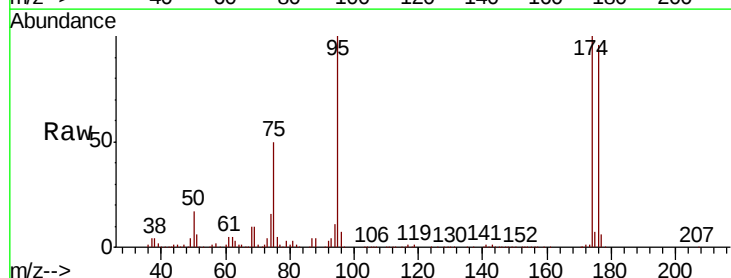
Instrument :
MSVOA_X
ClientSampleId :

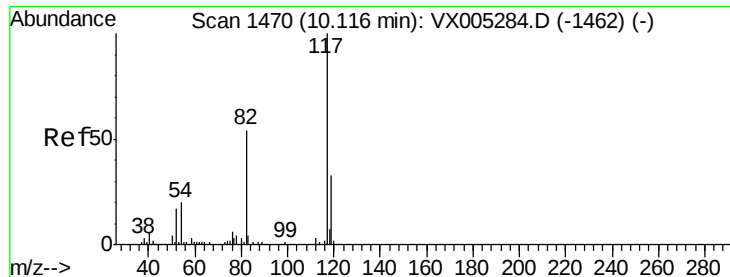
Tot Ion: 43 Resp: 1377
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 44.352 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

Tgt Ion: 95 Resp: 146655
Ion Ratio Lower Upper
95 100
174 96.4 0.0 185.2
176 93.1 0.0 178.6

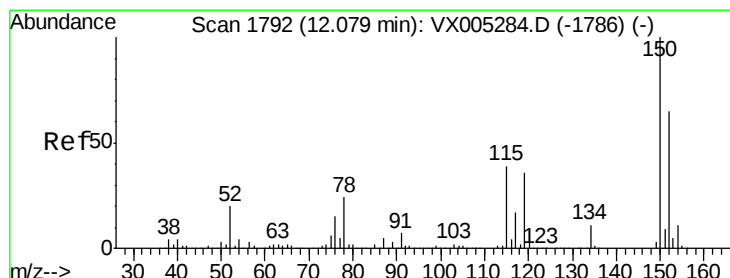
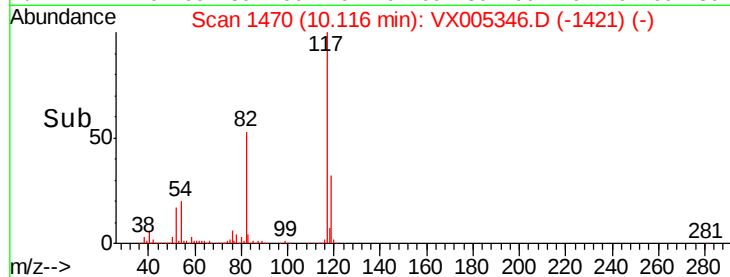
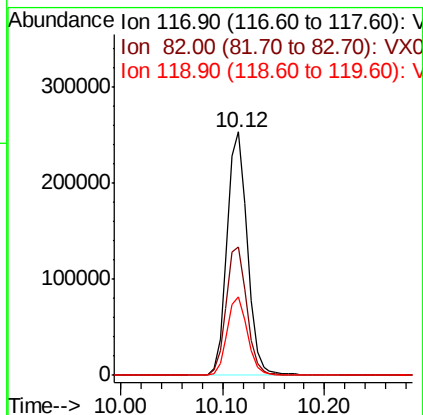
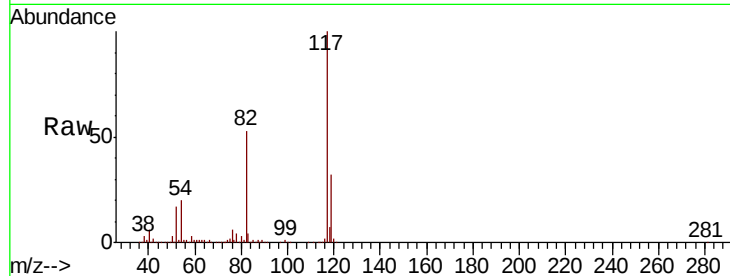




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

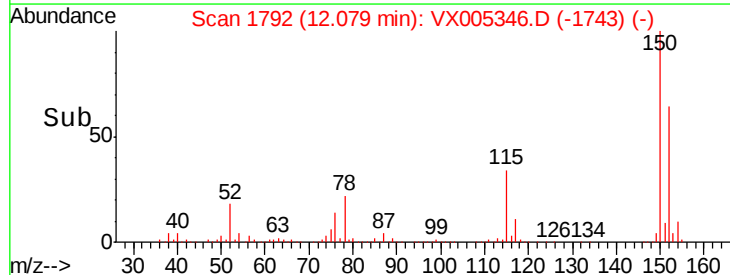
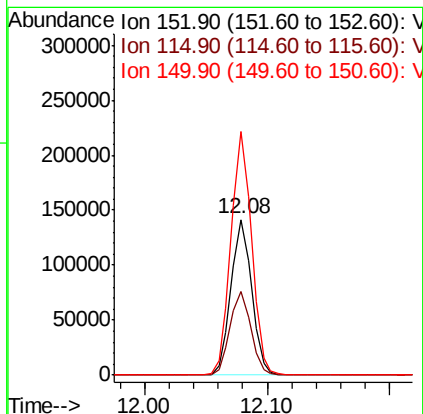
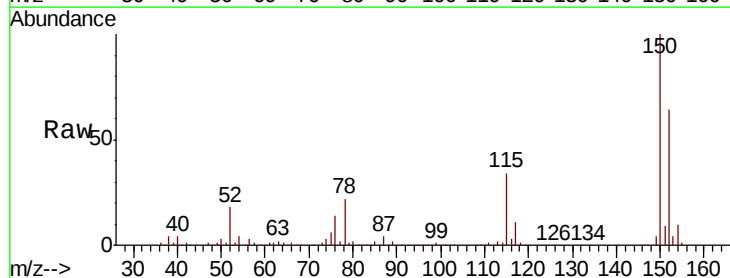
Instrument :
MSVOA_X
ClientSampleId :

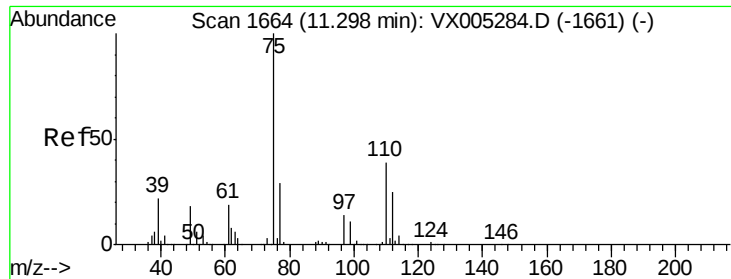
Tot Ion:117 Resp: 349357
Ion Ratio Lower Upper
117 100
82 52.8 47.8 71.6
119 32.2 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005346.D
Acq: 15 Oct 2018 16:21

Tgt Ion:152 Resp: 164442
Ion Ratio Lower Upper
152 100
115 54.5 39.0 117.0
150 156.0 0.0 351.0





#76

1,2,3-Trichloropropane

Concen: 22.853 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

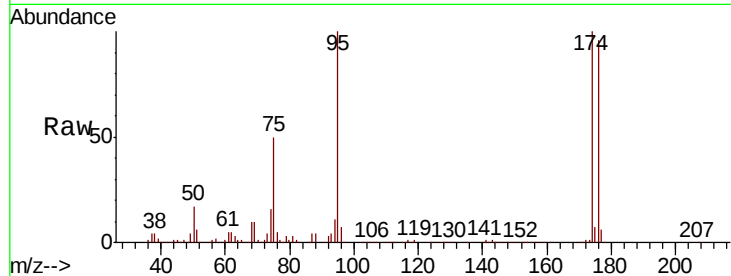
ClientSampleId :

Tot Ion: 75 Resp: 72894

Ion Ratio Lower Upper

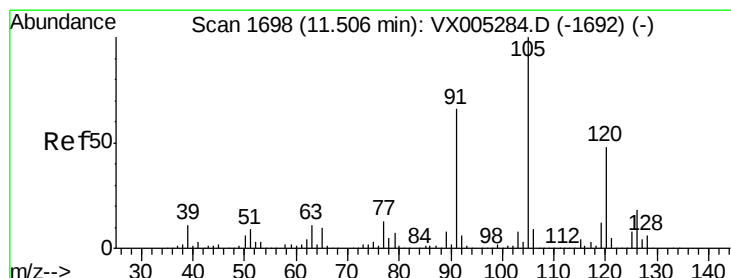
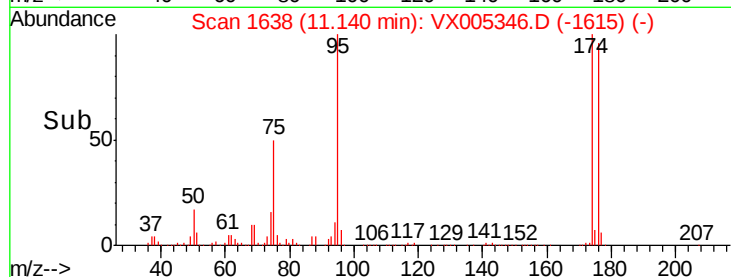
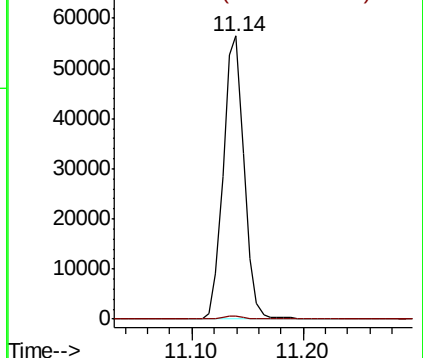
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX005346.D

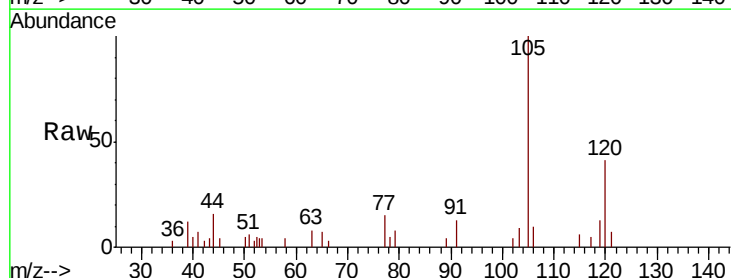
Acq: 15 Oct 2018 16:21

Tgt Ion: 105 Resp: 2237

Ion Ratio Lower Upper

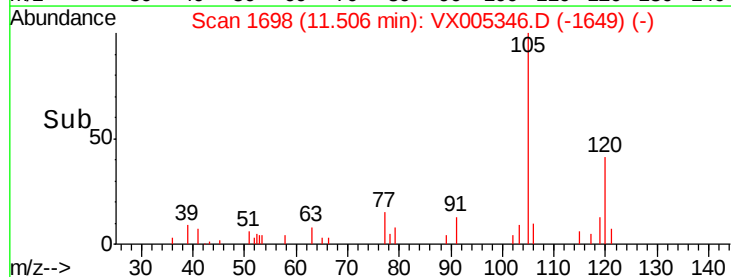
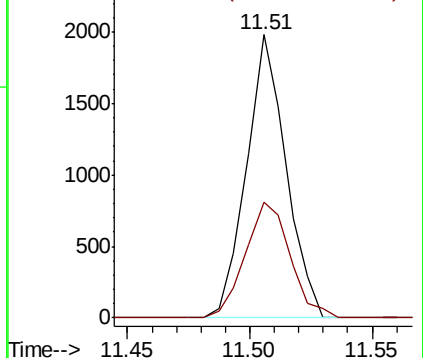
105 100

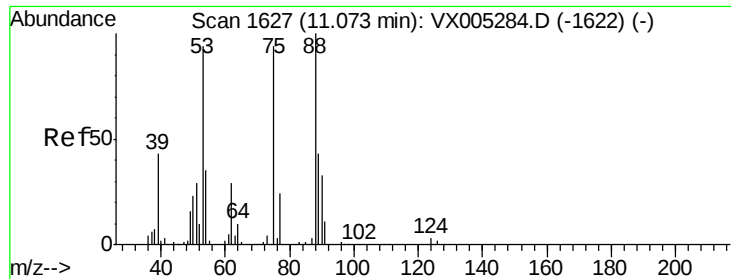
120 46.6 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.438 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005346.D

Acq: 15 Oct 2018 16:21

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 72894

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#

