

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005437.D
 Acq On : 18 Oct 2018 18:23
 Operator : JC/MD
 Sample : J5590-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LS-DRUM

Quant Time: Oct 19 03:35:08 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	5.66	168	317308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	441221	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	388323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189020	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	168839	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
35) Dibromofluoromethane	5.49	113	140374	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	8.71	98	518219	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	11.14	95	170234	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

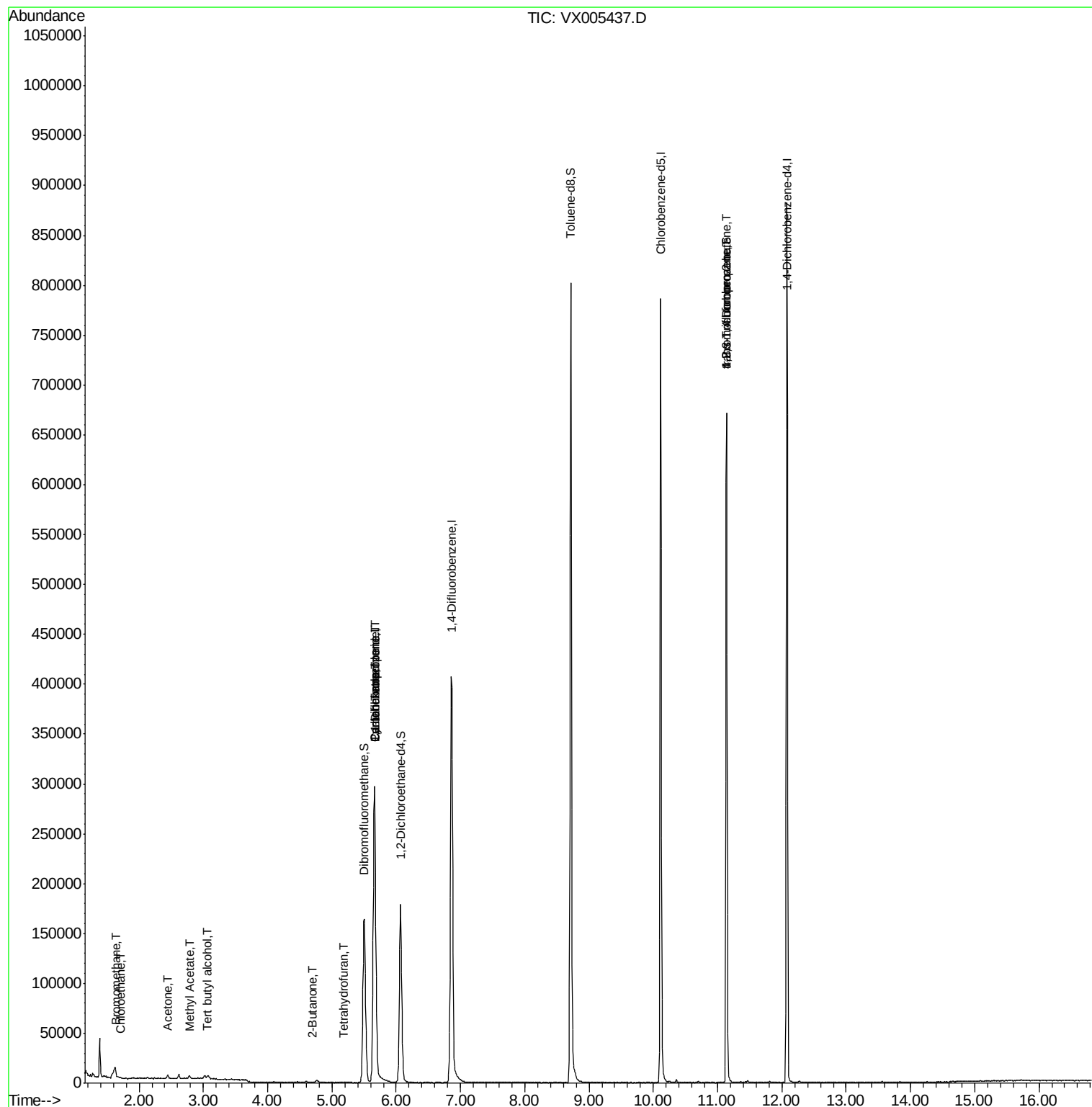
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	395	0.774	ug/l #	81
6) Chloroethane	1.71	64	26	0.346	ug/l #	44
11) Tert butyl alcohol	3.07	59	4867	4.899	ug/l #	86
13) Acrolein	2.30	56	115	Below Cal	#	78
16) Acetone	2.45	43	4546	2.233	ug/l	95
18) Methyl Acetate	2.78	43	3883	0.670	ug/l	92
20) Methylene Chloride	2.86	84	142	Below Cal	#	66
25) 2-Butanone	4.70	43	821	0.276	ug/l #	84
29) Tetrahydrofuran	5.18	42	586	0.308	ug/l #	67
31) Cyclohexane	5.67	56	5075	1.048	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20762	4.859	ug/l #	49
38) Carbon Tetrachloride	5.66	117	27427	6.388	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	82387	22.470	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82387	68.276	ug/l #	10

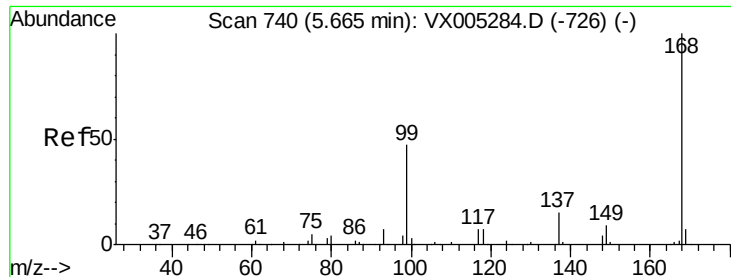
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

Instrument :

MSVOA_X

ClientSampleId :

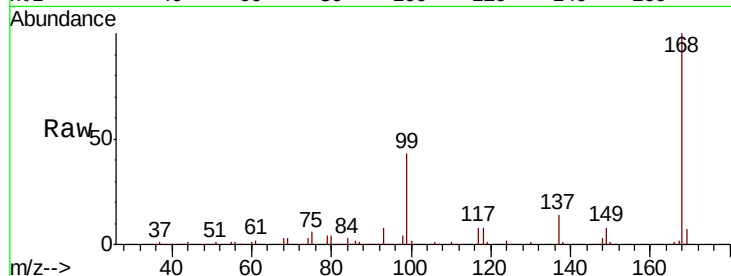
LS-DRUM

Tot Ion:168 Resp: 317308

Ion Ratio Lower Upper

168 100

99 43.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

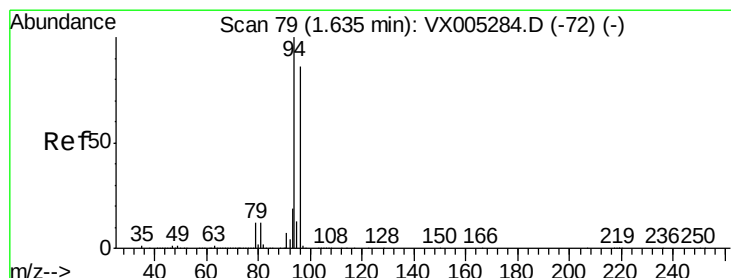
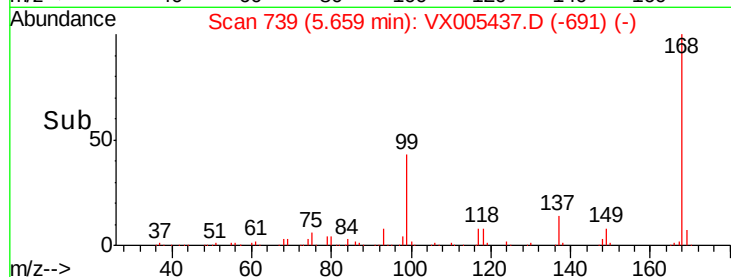
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.774 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005437.D

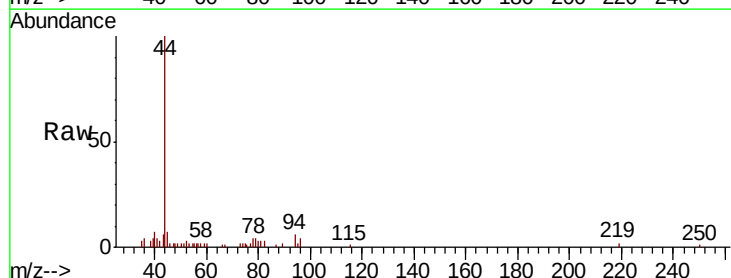
Acq: 18 Oct 2018 18:23

Tgt Ion: 94 Resp: 395

Ion Ratio Lower Upper

94 100

96 74.4 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

250

200

150

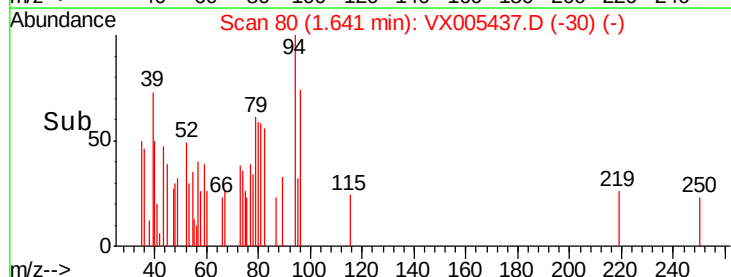
100

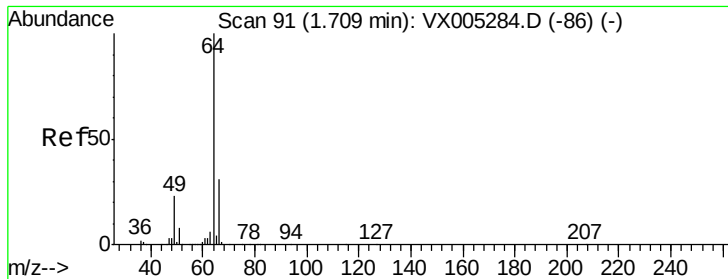
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.346 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.01 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

Instrument :

MSVOA_X

ClientSampleId :

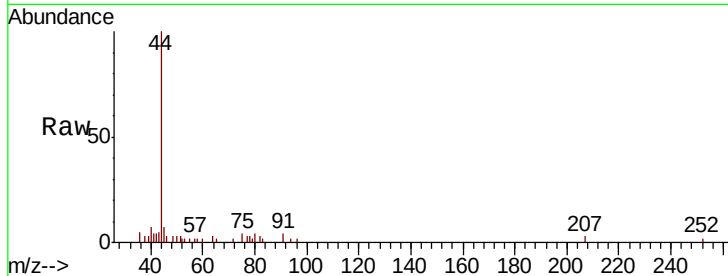
LS-DRUM

Tot Ion: 64 Resp: 26

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



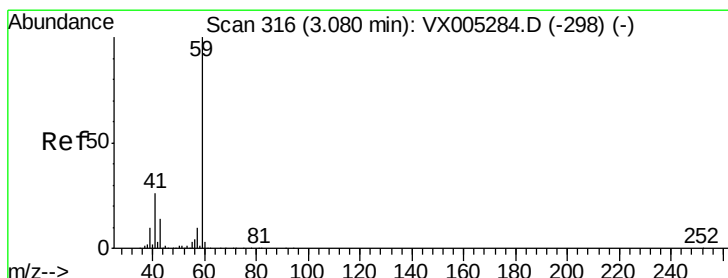
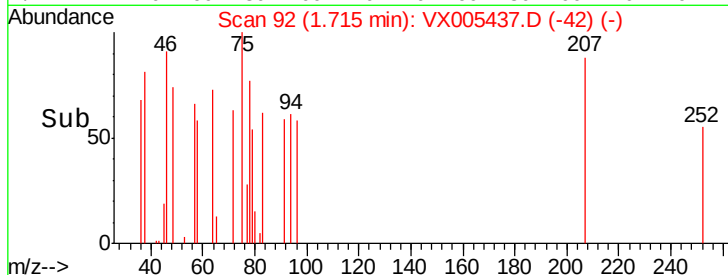
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

1.73

Time-->



#11

Tert butyl alcohol

Concen: 4.899 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX005437.D

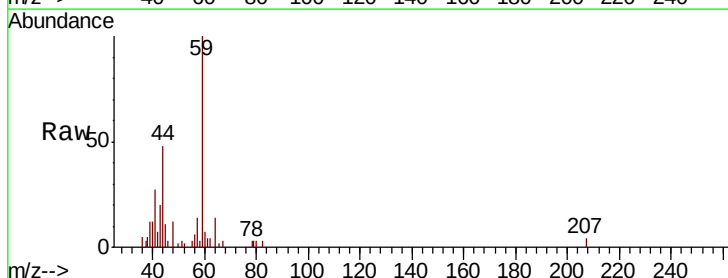
Acq: 18 Oct 2018 18:23

Tgt Ion: 59 Resp: 4867

Ion Ratio Lower Upper

59 100

57 15.7 8.2 12.4#



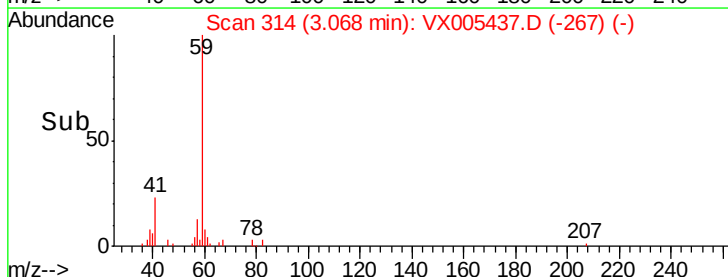
Abundance Ion 59.00 (58.70 to 59.70): VX0

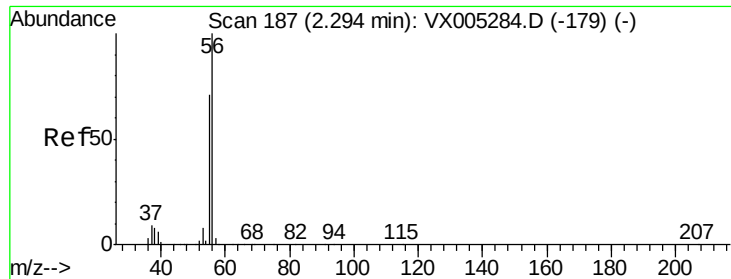
Ion 57.00 (56.70 to 57.70): VX0

3.07

3.10

Time-->

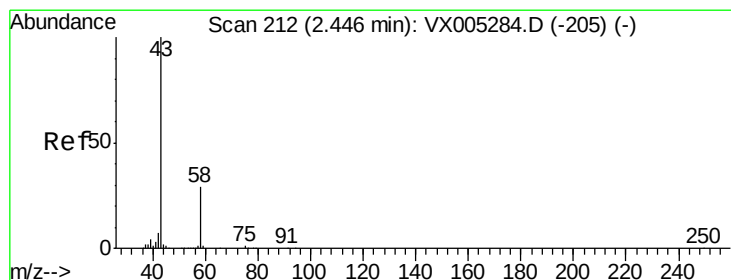
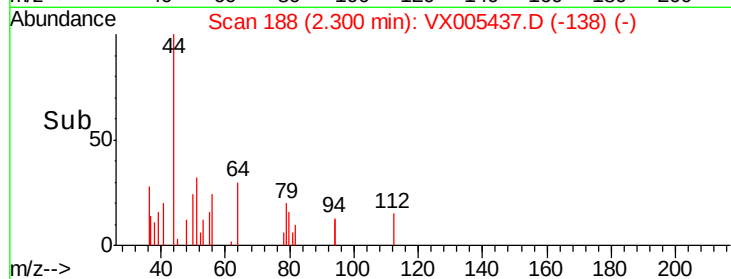
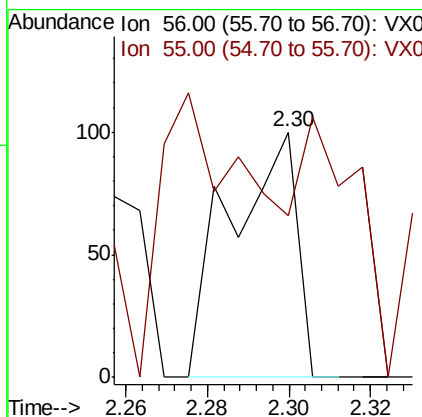
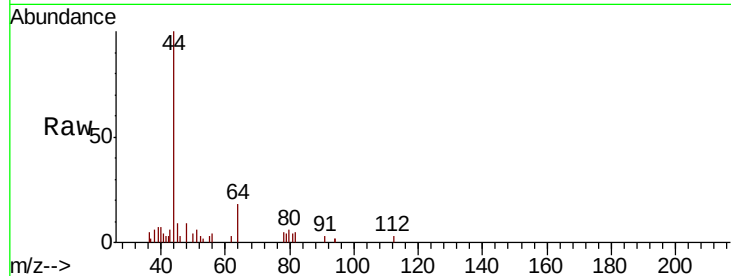




#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

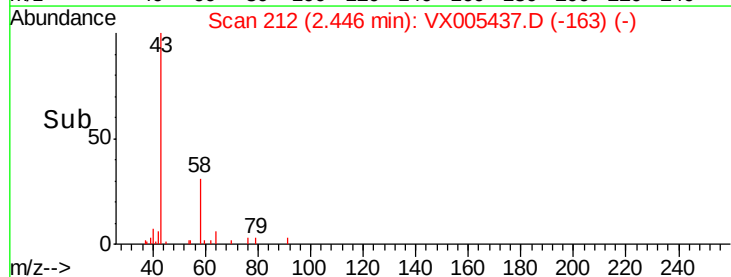
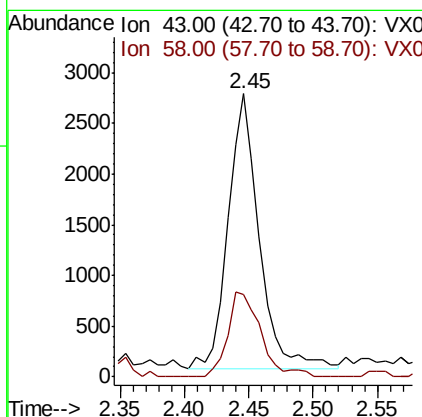
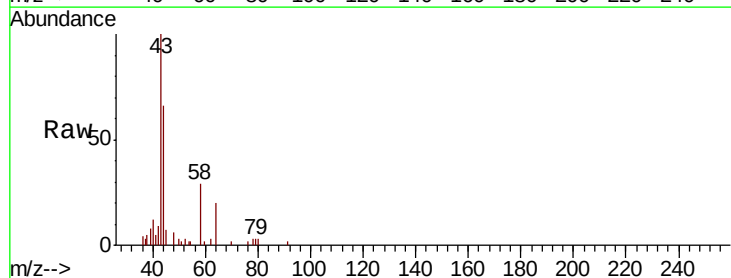
Instrument :
MSVOA_X
ClientSampled :
LS-DRUM

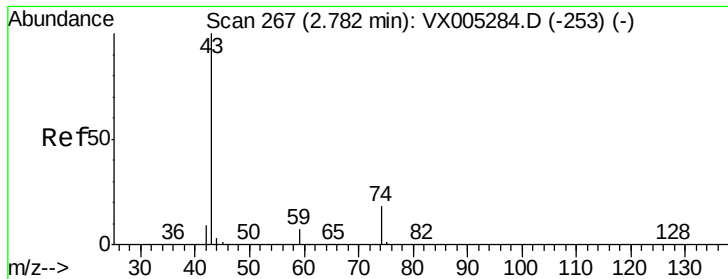
Tot Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 86.1 54.7 82.1#



#16
Acetone
Concen: 2.233 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Tgt Ion: 43 Resp: 4546
Ion Ratio Lower Upper
43 100
58 29.9 26.2 39.4

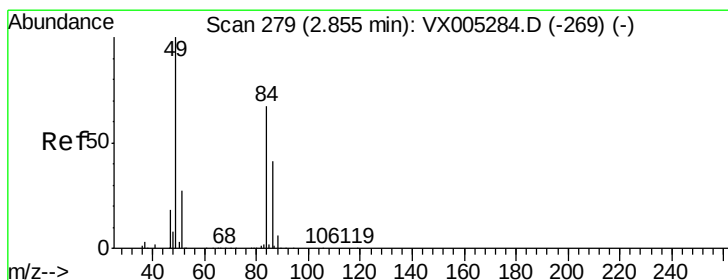
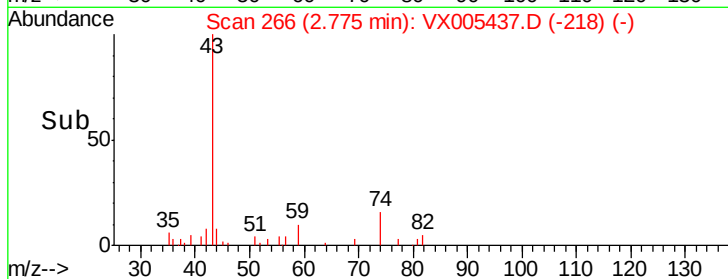
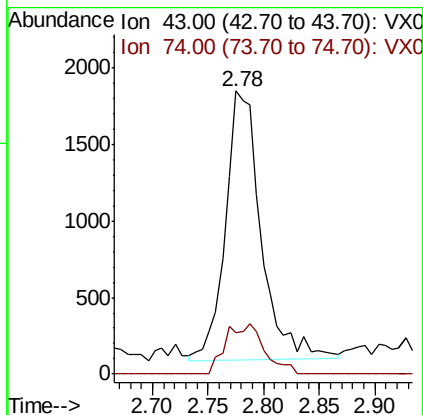
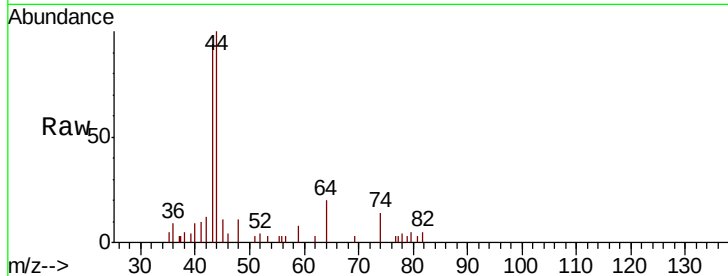




#18
Methyl Acetate
Concen: 0.670 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

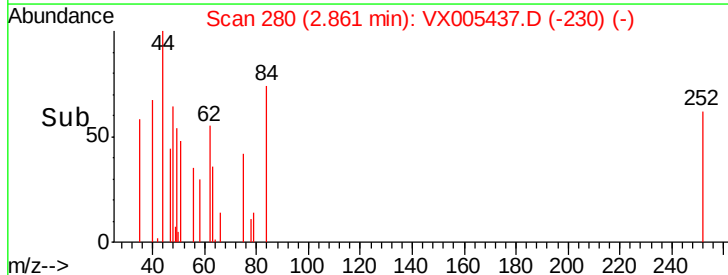
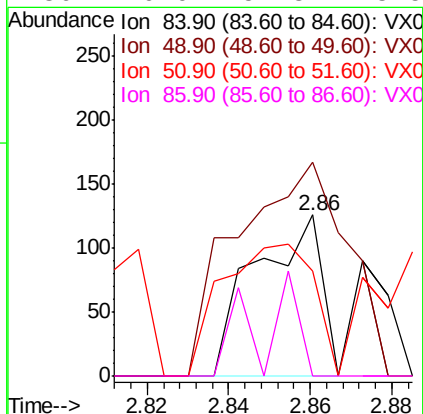
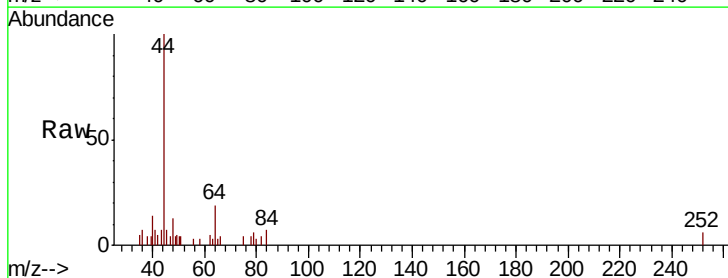
Instrument :
MSVOA_X
ClientSampleId :
LS-DRUM

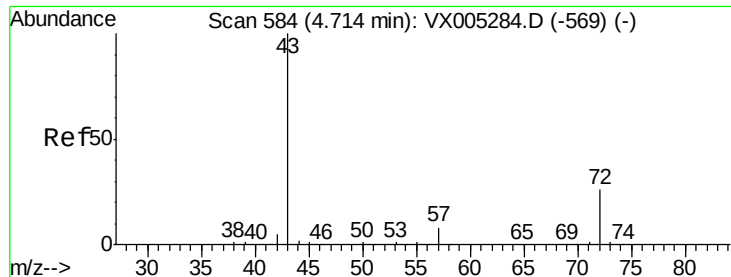
Tot Ion: 43 Resp: 3883
Ion Ratio Lower Upper
43 100
74 20.5 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Tgt Ion: 84 Resp: 142
Ion Ratio Lower Upper
84 100
49 132.5 101.2 151.8
51 65.1 29.5 44.3#
86 0.0 52.3 78.5#





#25

2-Butanone

Concen: 0.276 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

Instrument :

MSVOA_X

ClientSampled :

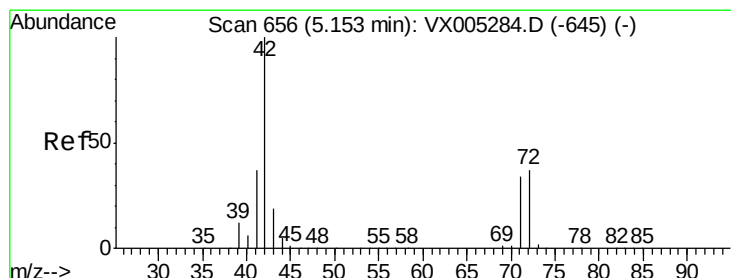
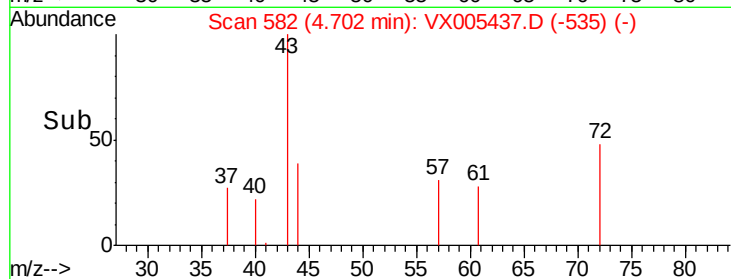
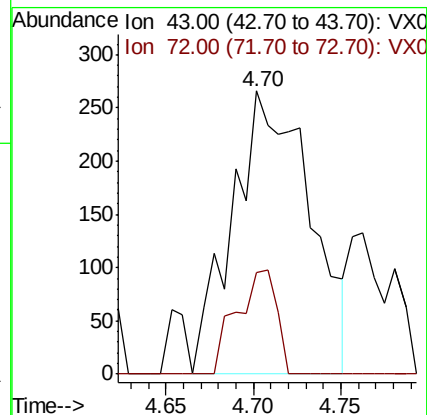
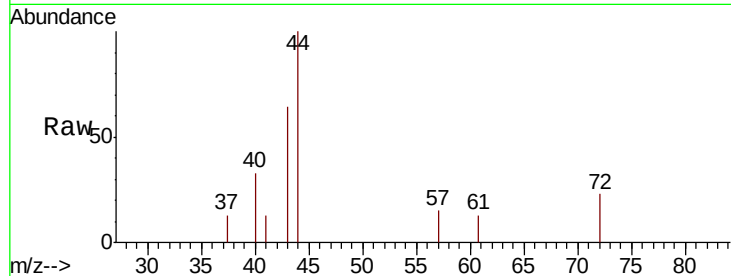
LS-DRUM

Tot Ion: 43 Resp: 821

Ion Ratio Lower Upper

43 100

72 36.1 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.308 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

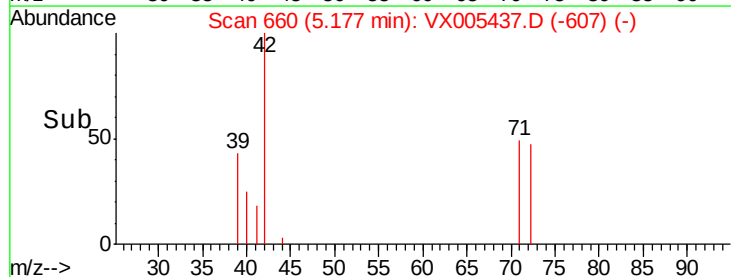
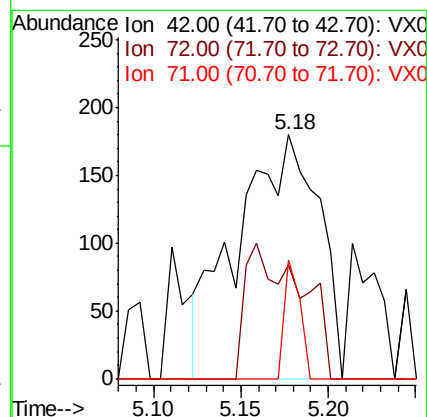
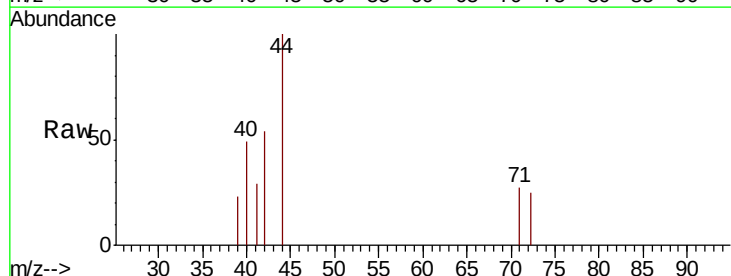
Tgt Ion: 42 Resp: 586

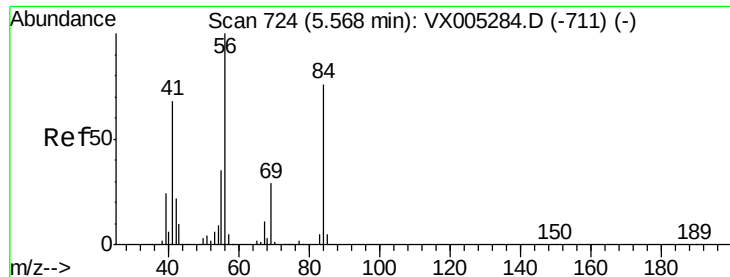
Ion Ratio Lower Upper

42 100

72 37.7 37.4 56.0

71 9.0 34.5 51.7#

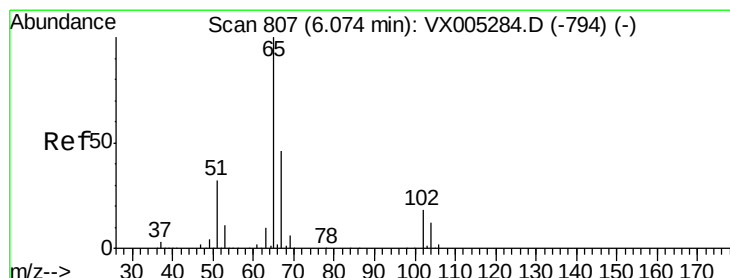
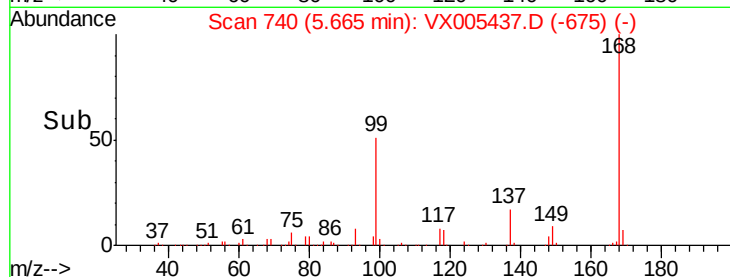
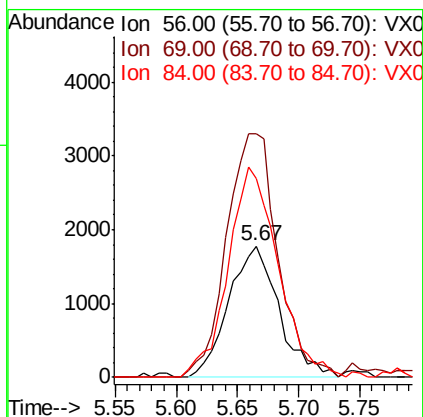
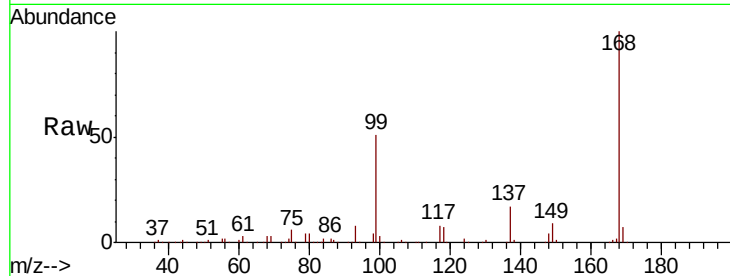




#31
Cyclohexane
Concen: 1.048 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

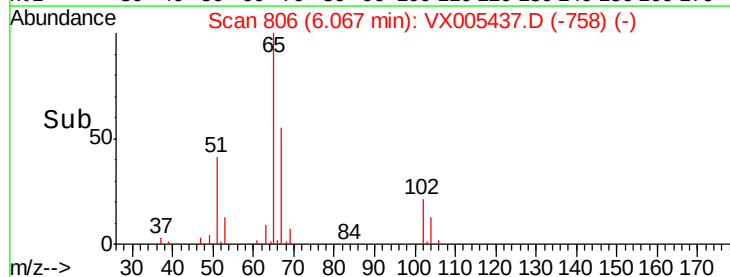
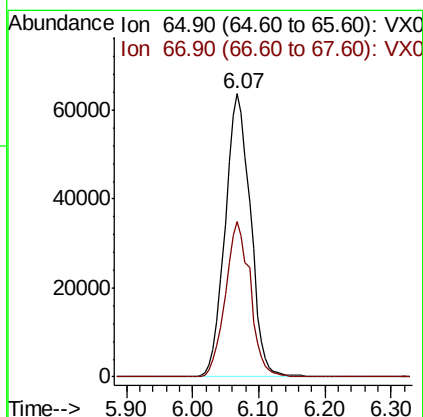
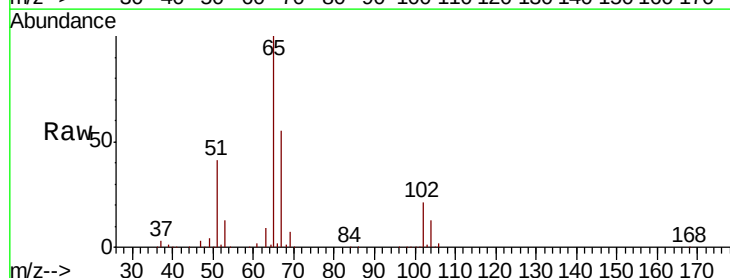
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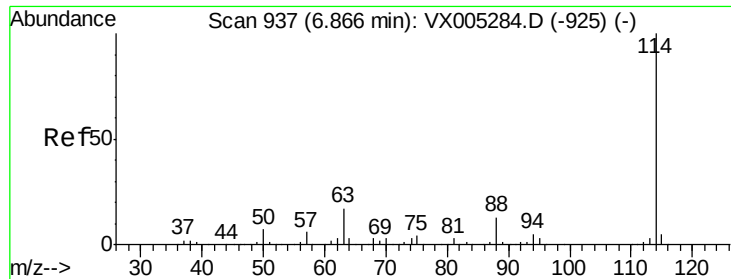
Tot Ion: 56 Resp: 5075
Ion Ratio Lower Upper
56 100
69 185.4 25.4 38.2#
84 148.0 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 47.943 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Tgt Ion: 65 Resp: 168839
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.8

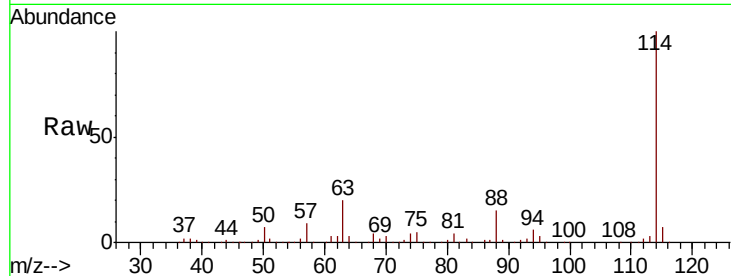




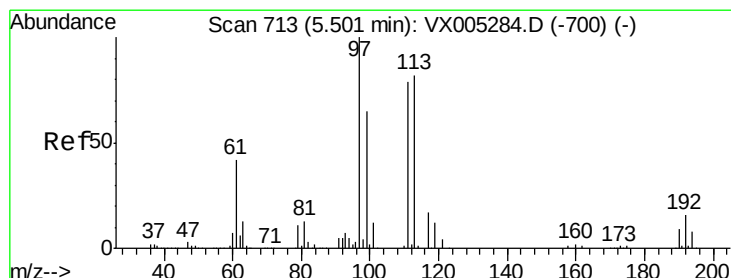
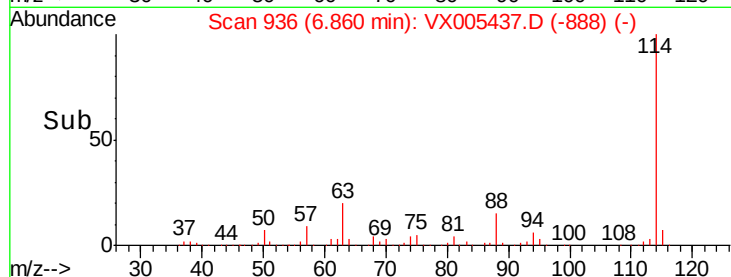
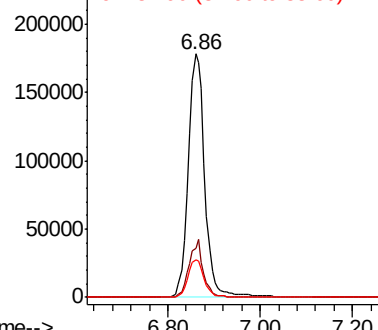
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005437.D
 Acq: 18 Oct 2018 18:23

Instrument :
 MSVOA_X
 ClientSampleId :
 LS-DRUM

Tot Ion:114 Resp: 441221
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.0
 88 15.5 0.0 30.4

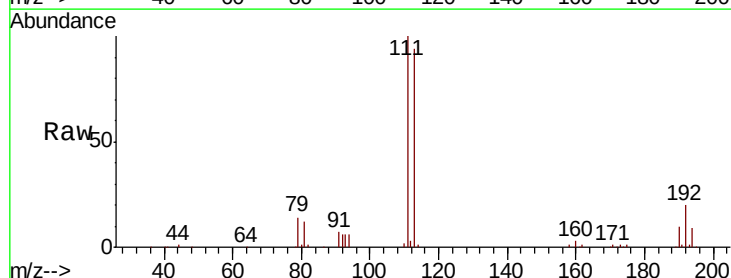


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

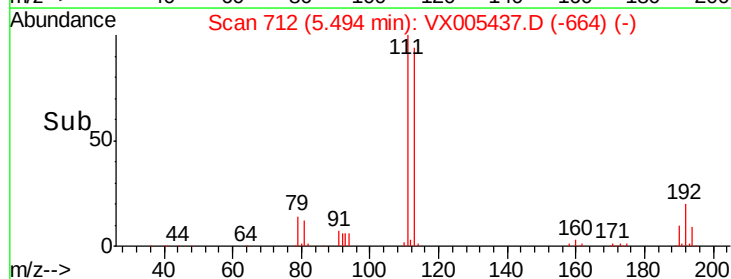
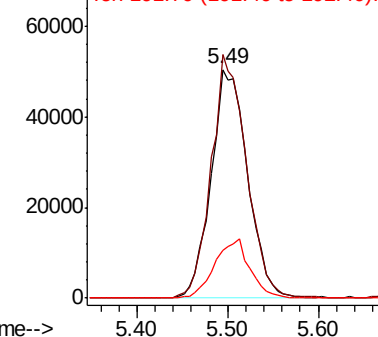


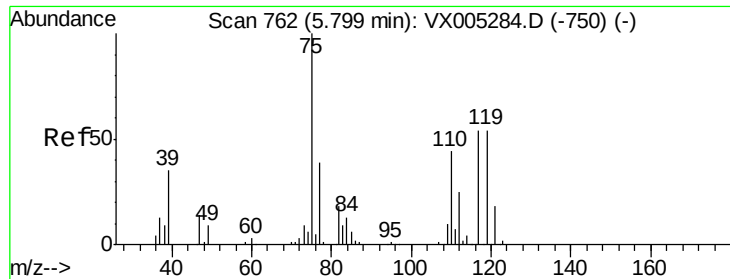
#35
 Dibromofluoromethane
 Concen: 48.035 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX005437.D
 Acq: 18 Oct 2018 18:23

Tgt Ion:113 Resp: 140374
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.4 123.6
 192 24.7 19.4 29.2



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: 4.859 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

Instrument :

MSVOA_X

ClientSampleId :

LS-DRUM

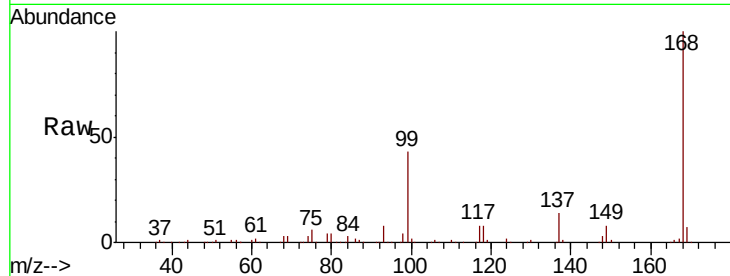
Tot Ion: 75 Resp: 20762

Ion Ratio Lower Upper

75 100

110 8.6 18.0 54.0#

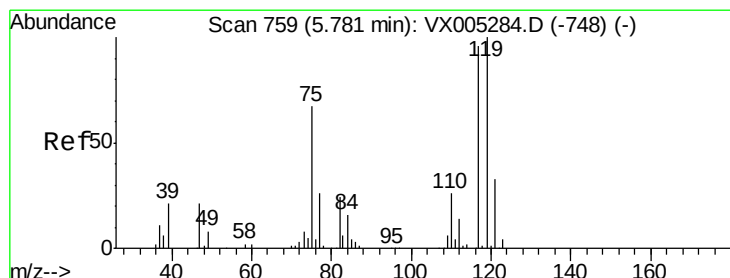
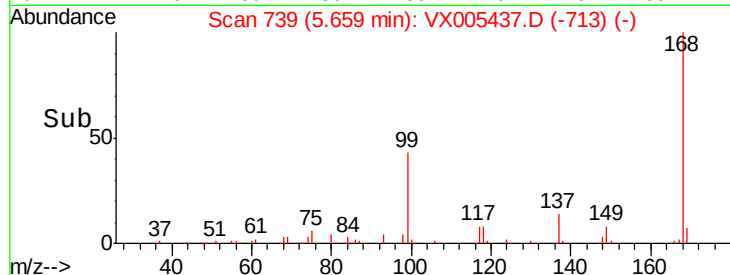
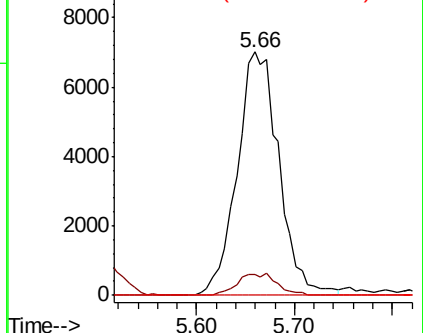
77 0.0 24.6 36.8#



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: 6.388 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

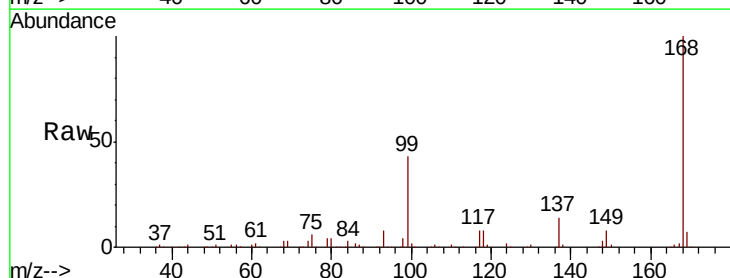
Tgt Ion: 117 Resp: 27427

Ion Ratio Lower Upper

117 100

119 7.5 78.8 118.2#

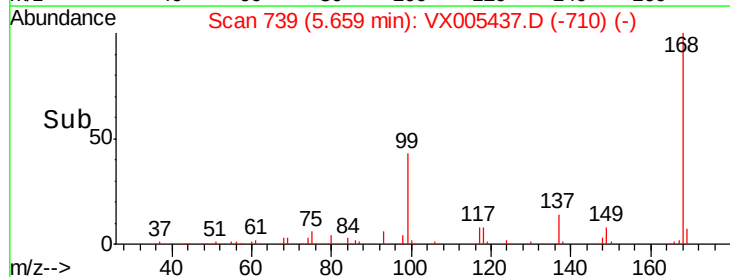
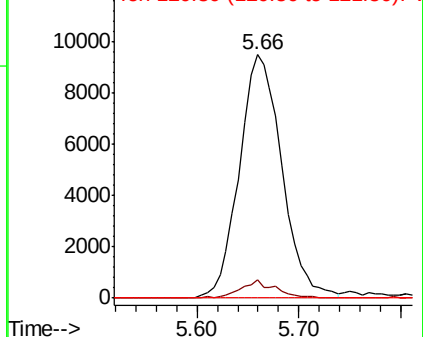
121 0.0 24.9 37.3#

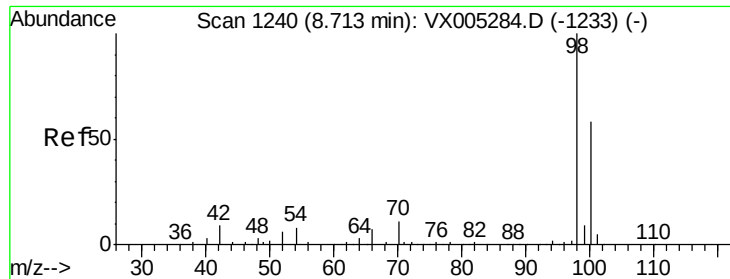


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

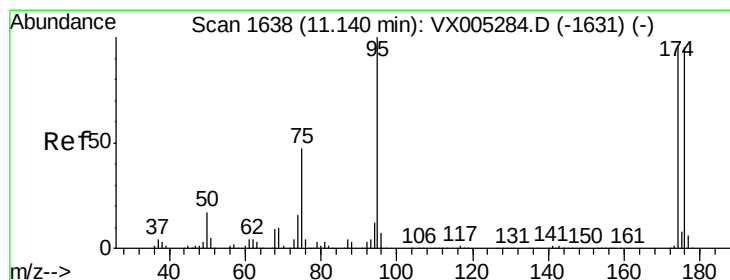
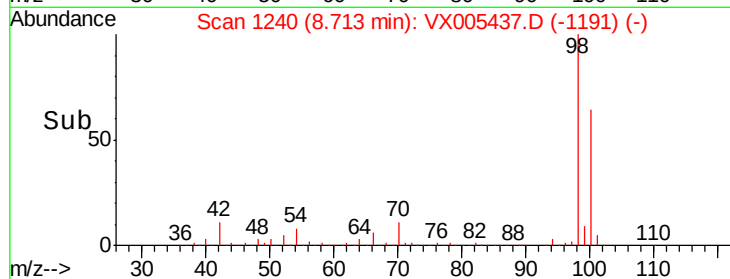
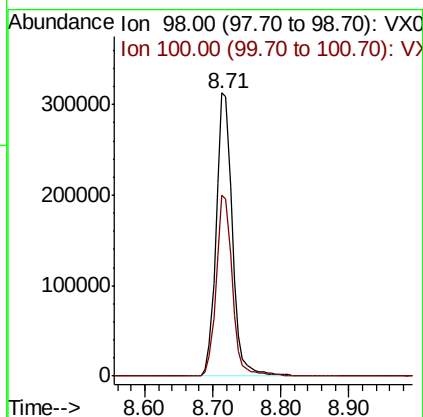
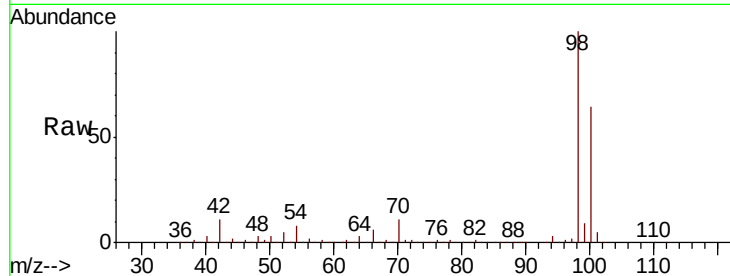




#50
Toluene-d8
Concen: 51.654 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

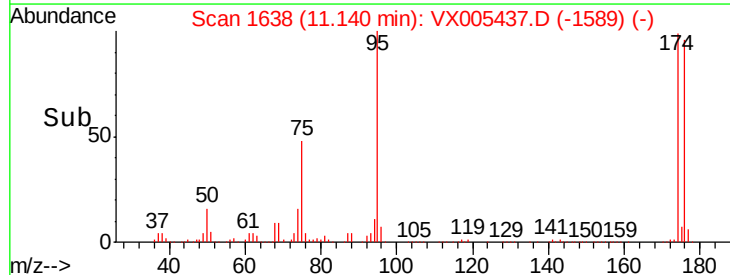
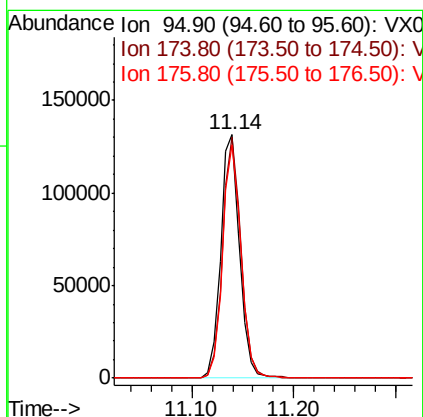
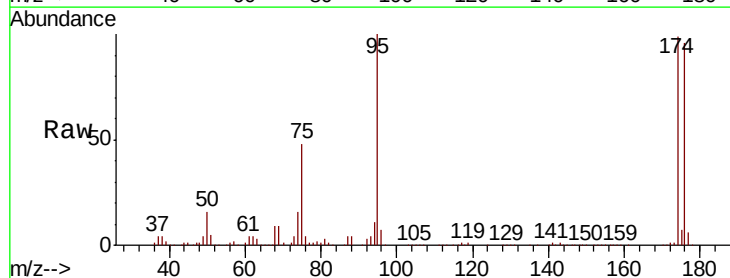
Instrument :
MSVOA_X
ClientSampleId :
LS-DRUM

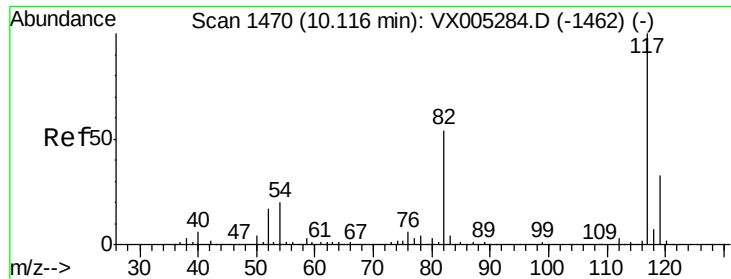
Tot Ion: 98 Resp: 518219
Ion Ratio Lower Upper
98 100
100 63.6 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 45.169 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Tgt Ion: 95 Resp: 170234
Ion Ratio Lower Upper
95 100
174 96.5 0.0 185.2
176 93.4 0.0 178.6

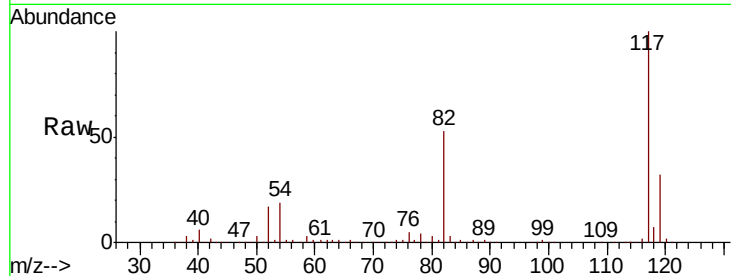




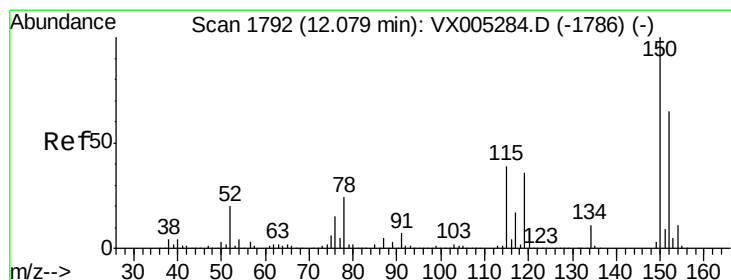
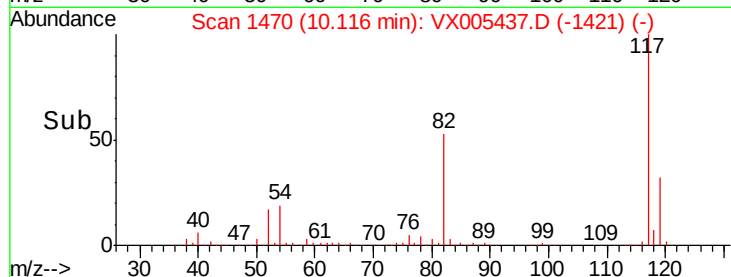
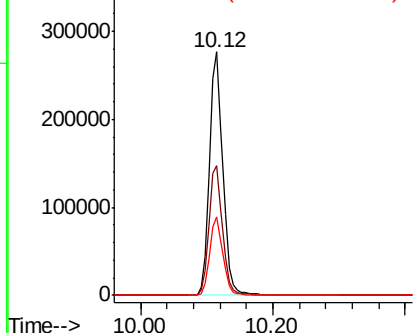
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Instrument :
MSVOA_X
ClientSampleId :
LS-DRUM

Tot Ion:117 Resp: 388323
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 32.2 29.3 43.9

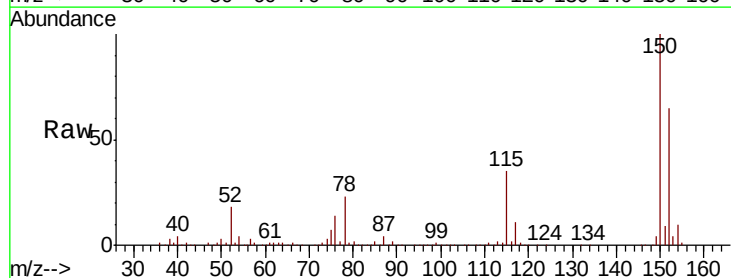


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

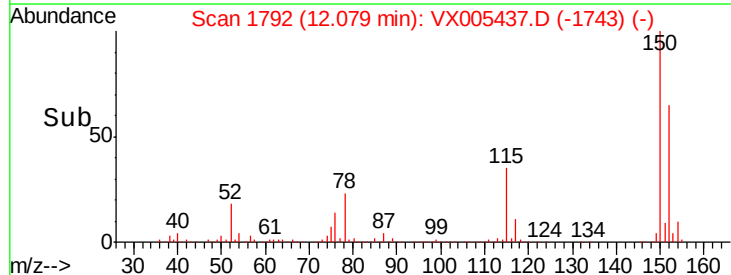
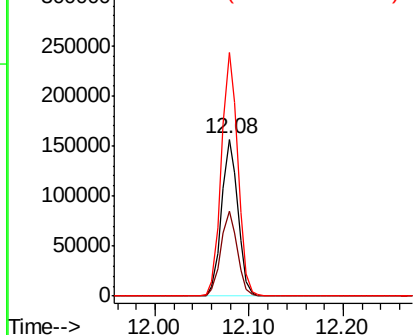


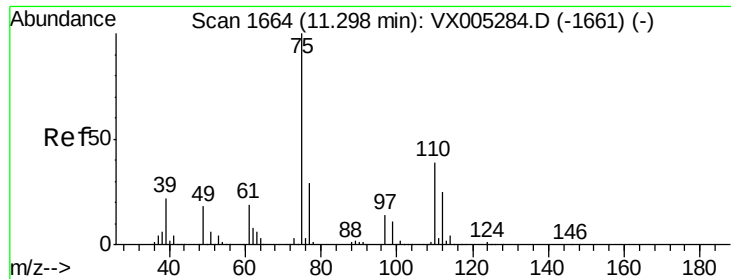
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005437.D
Acq: 18 Oct 2018 18:23

Tgt Ion:152 Resp: 189020
Ion Ratio Lower Upper
152 100
115 54.3 39.0 117.0
150 155.9 0.0 351.0



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: 22.470 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

Instrument :

MSVOA_X

ClientSampleId :

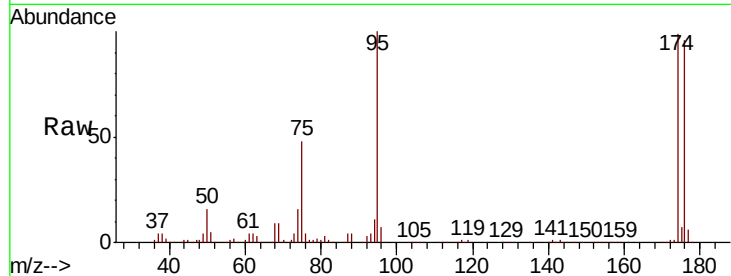
LS-DRUM

Tot Ion: 75 Resp: 82387

Ion Ratio Lower Upper

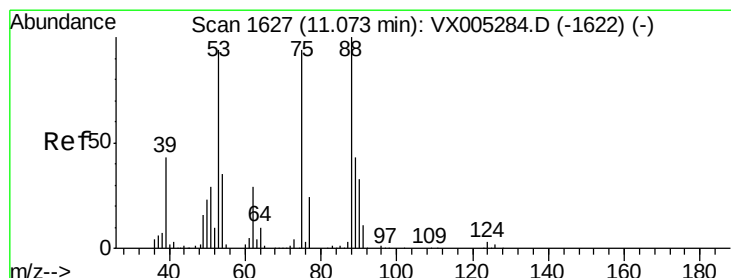
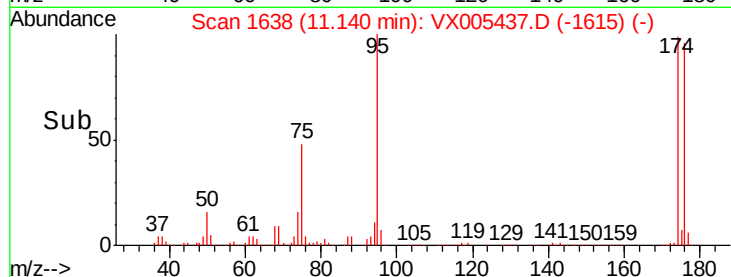
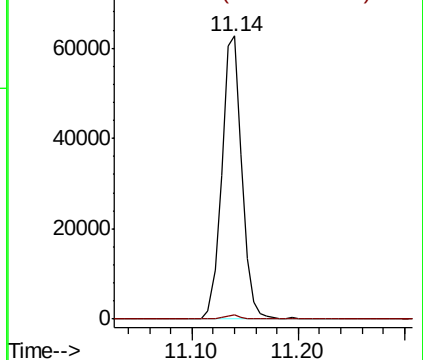
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 68.276 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005437.D

Acq: 18 Oct 2018 18:23

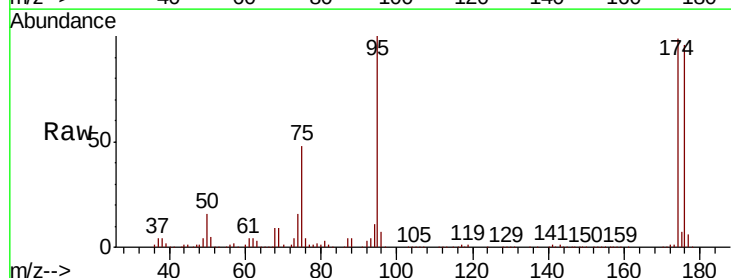
Tgt Ion: 75 Resp: 82387

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

