

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102918\
 Data File : VX005681.D
 Acq On : 30 Oct 2018 01:23
 Operator : JC/MD
 Sample : PB114242ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114242ZHE#01

Quant Time: Oct 30 04:50:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	277802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	388146	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	353393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	200145	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	155259	45.78	ug/l	0.00
Spiked Amount			Recovery	=	91.56%	
35) Dibromofluoromethane	5.50	113	127993	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
50) Toluene-d8	8.71	98	464861	49.22	ug/l	0.00
Spiked Amount			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	11.14	95	161925	45.40	ug/l	0.00
Spiked Amount			Recovery	=	90.80%	

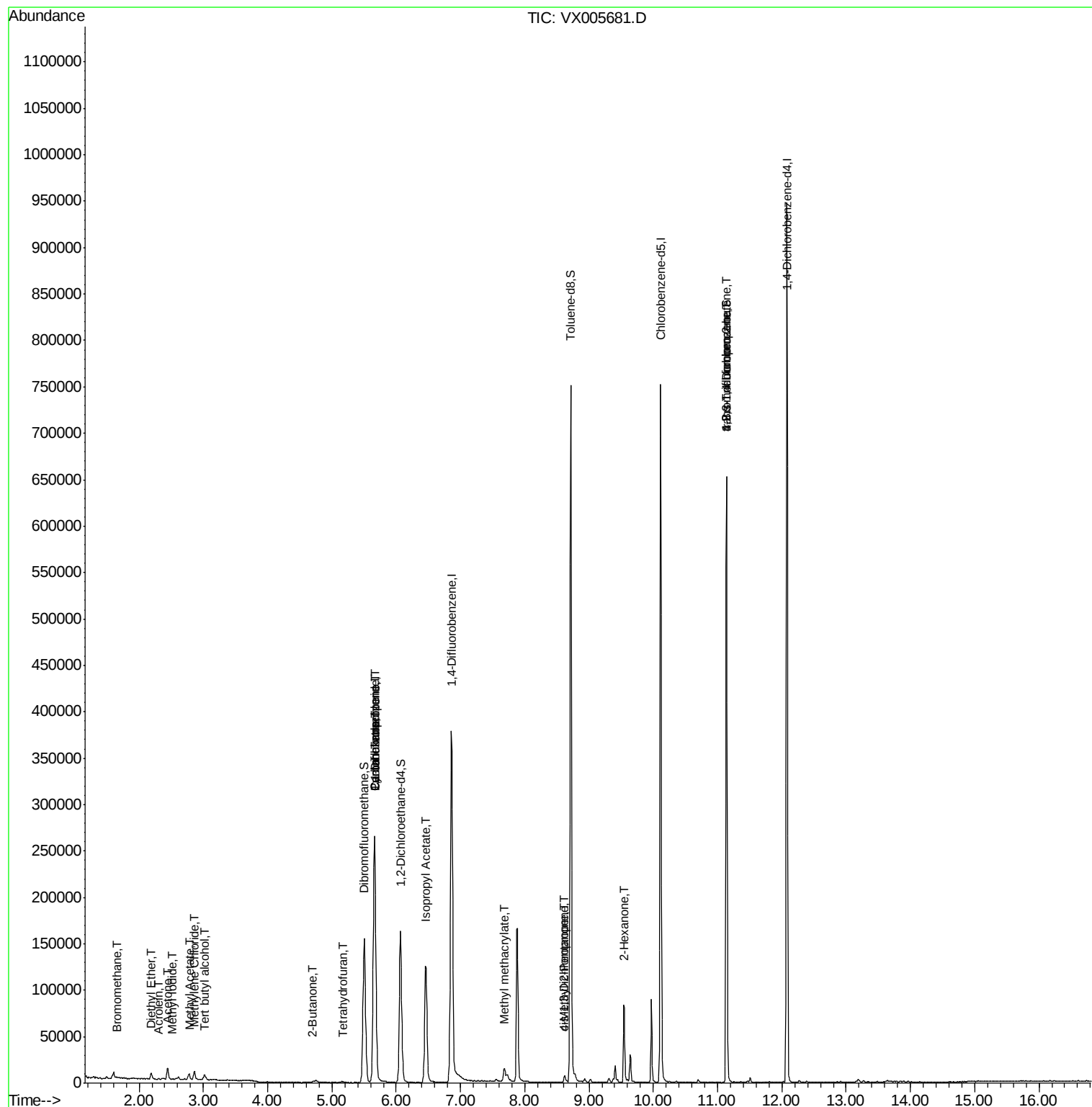
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	616	0.288	ug/l	95
8) Diethyl Ether	2.19	74	2429	1.276	ug/l	98
10) Methyl Iodide	2.51	142	561	2.911	ug/l #	85
11) Tert butyl alcohol	3.03	59	3529	3.867	ug/l #	73
13) Acrolein	2.30	56	198	0.425	ug/l	97
16) Acetone	2.45	43	13079	7.299	ug/l	99
18) Methyl Acetate	2.78	43	8172	0.396	ug/l	93
20) Methylene Chloride	2.86	84	3869	1.289	ug/l	94
25) 2-Butanone	4.70	43	2070	0.759	ug/l #	90
29) Tetrahydrofuran	5.17	42	1284	0.723	ug/l #	80
31) Cyclohexane	5.66	56	4683	1.024	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	18807	4.993	ug/l #	49
38) Carbon Tetrachloride	5.67	117	25182	6.347	ug/l #	15
43) Isopropyl Acetate	6.45	43	177583	24.654	ug/l	99
48) Methyl methacrylate	7.68	41	6616	1.885	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2909	0.601	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	1053	0.249	ug/l #	65
59) 2-Hexanone	9.54	43	10520	2.756	ug/l #	57
76) 1,2,3-Trichloropropane	11.14	75	79257	18.690	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	79257	61.070	ug/l #	9

(#) = 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: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

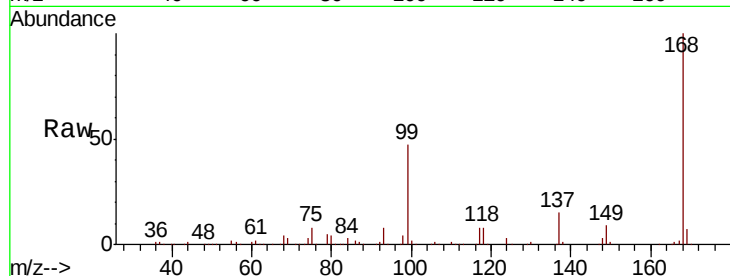
PB114242ZHE#01

Tot Ion:168 Resp: 277802

Ion Ratio Lower Upper

168 100

99 47.4 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

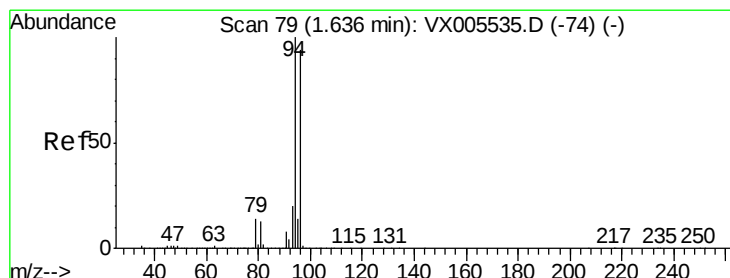
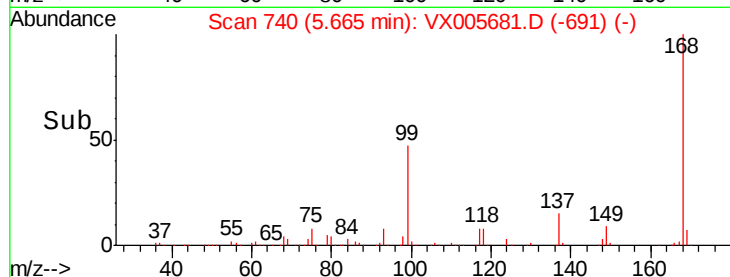
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.288 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005681.D

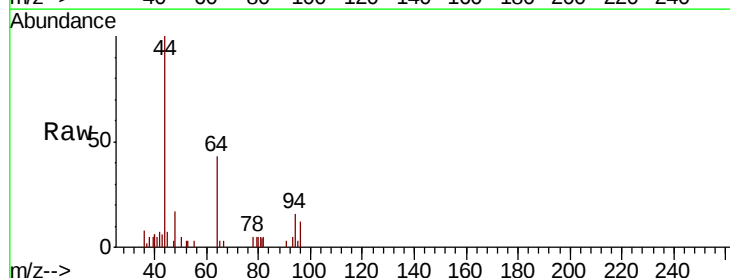
Acq: 30 Oct 2018 01:23

Tgt Ion: 94 Resp: 616

Ion Ratio Lower Upper

94 100

96 88.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

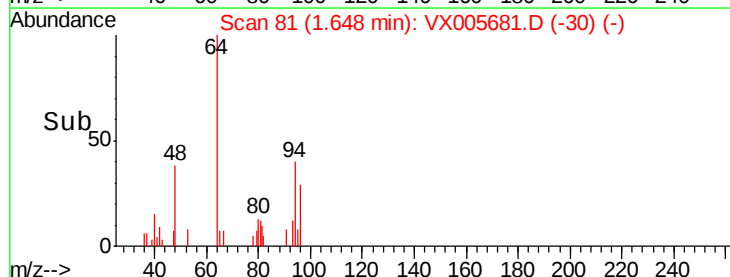
300

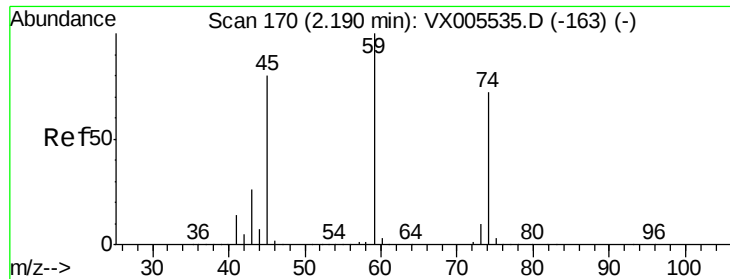
200

100

0

Time--> 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 1.276 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

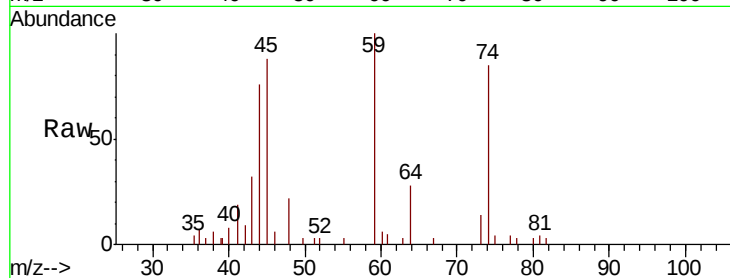
PB114242ZHE#01

Tot Ion: 74 Resp: 2429

Ion Ratio Lower Upper

74 100

45 110.4 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2000

1500

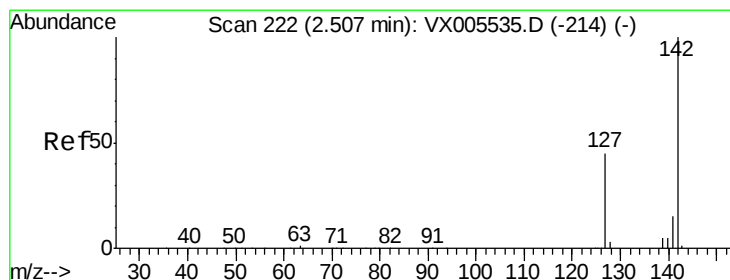
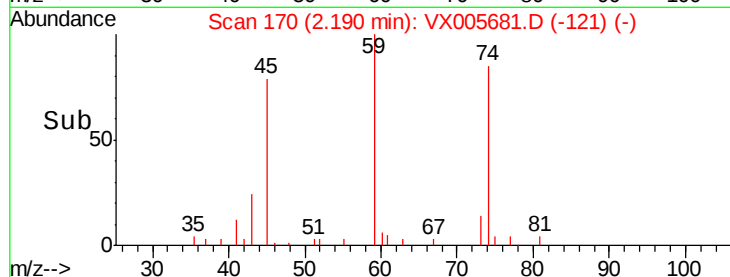
1000

500

0

Time--> 2.10 2.15 2.20 2.25

2.19



#10

Methyl Iodide

Concen: 2.911 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

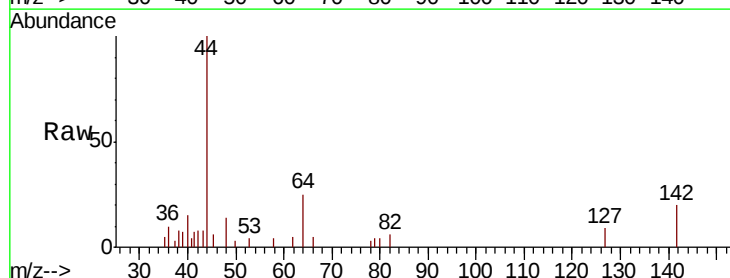
Tgt Ion: 142 Resp: 561

Ion Ratio Lower Upper

142 100

127 39.6 36.0 54.0

141 0.0 11.7 17.5#



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

400

300

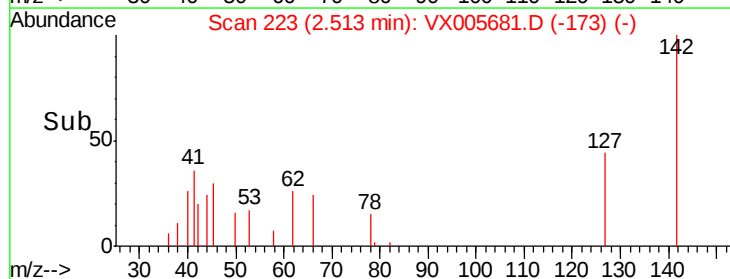
200

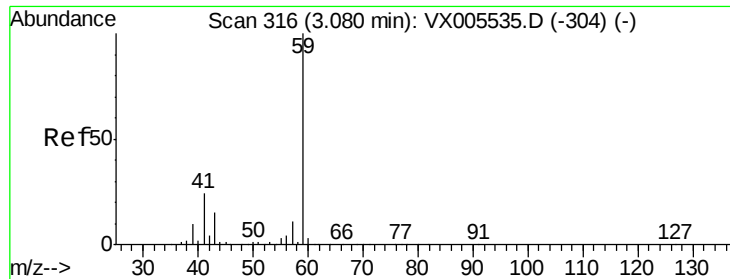
100

0

Time--> 2.45 2.50 2.55

2.51

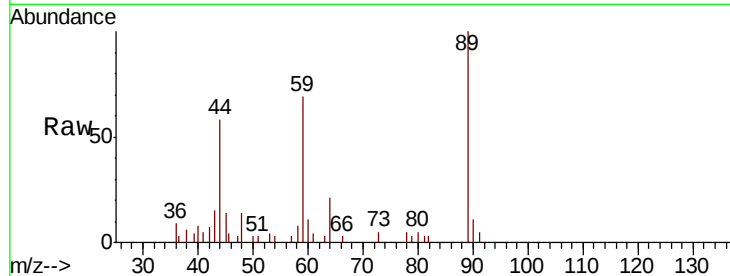




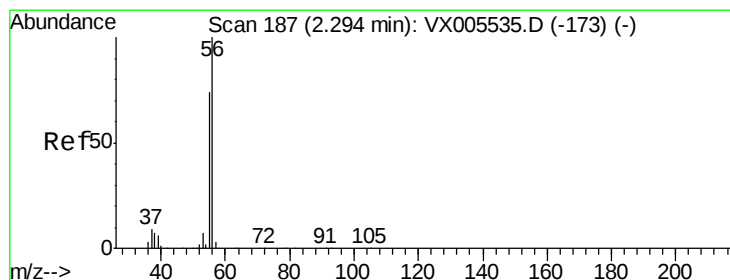
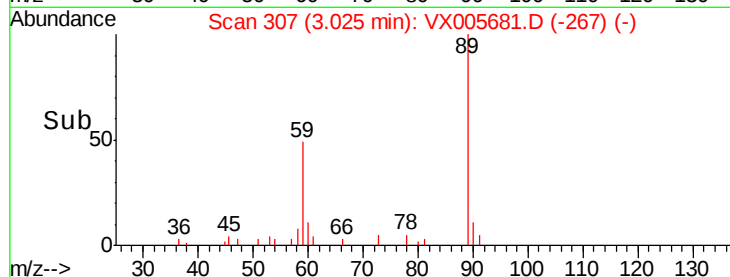
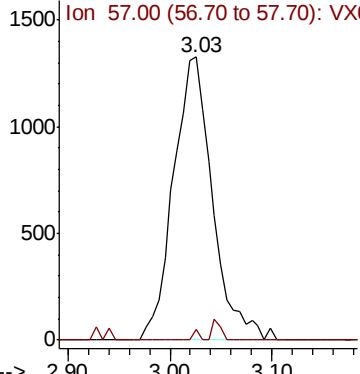
#11
Tert butyl alcohol
Concen: 3.867 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#01

Tot Ion: 59 Resp: 3529
Ion Ratio Lower Upper
59 100
57 0.5 8.5 12.7#

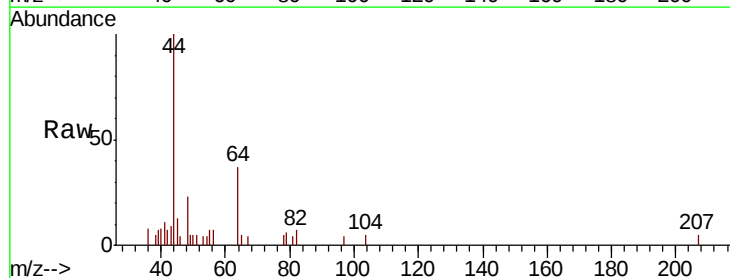


Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

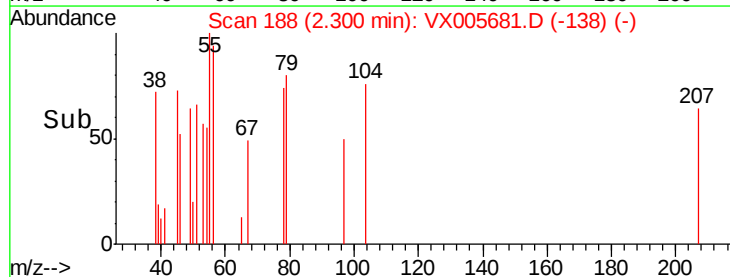
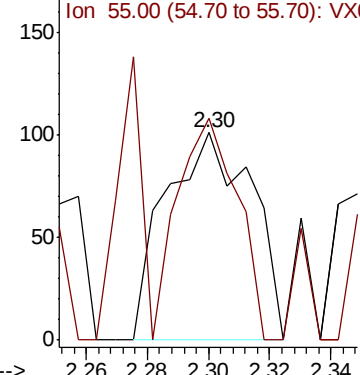


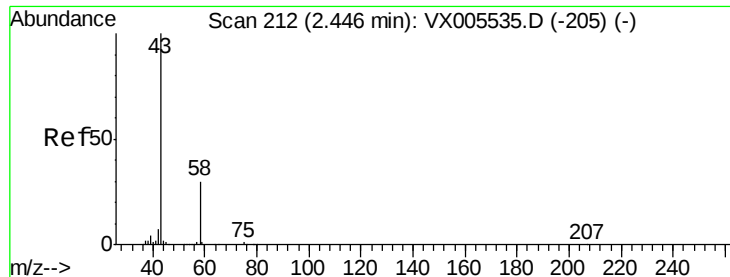
#13
Acrolein
Concen: 0.425 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Tgt Ion: 56 Resp: 198
Ion Ratio Lower Upper
56 100
55 74.2 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 7.299 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

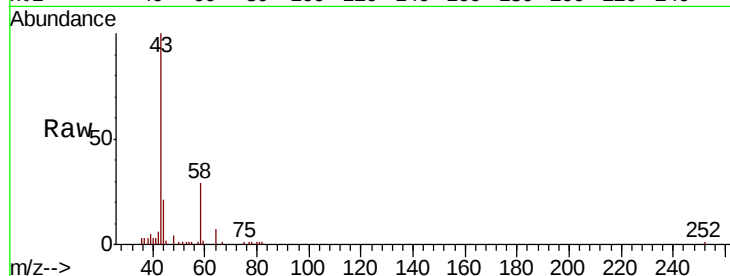
PB114242ZHE#01

Tot Ion: 43 Resp: 13079

Ion Ratio Lower Upper

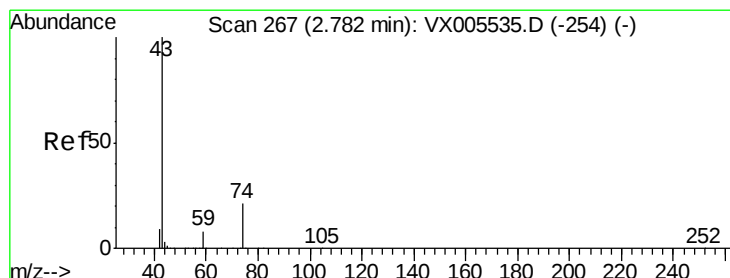
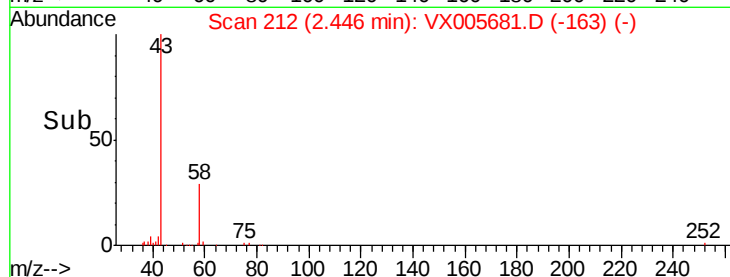
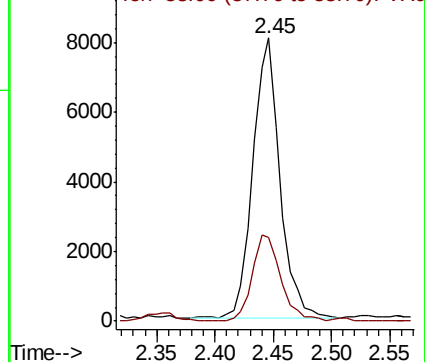
43 100

58 29.0 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.396 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005681.D

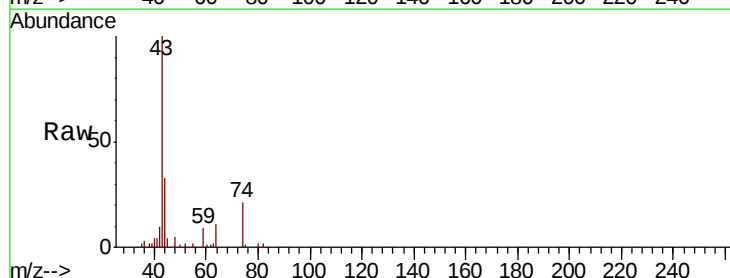
Acq: 30 Oct 2018 01:23

Tgt Ion: 43 Resp: 8172

Ion Ratio Lower Upper

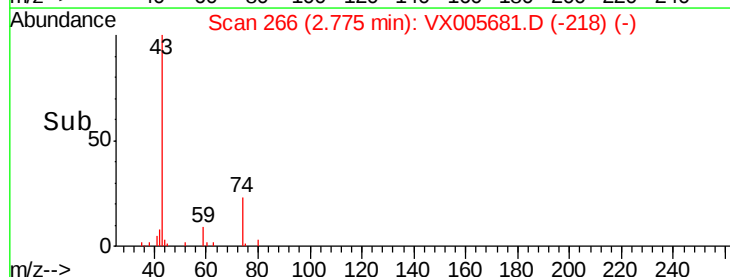
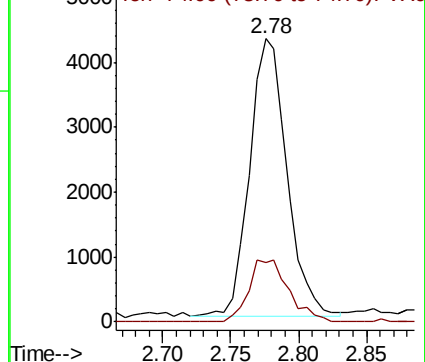
43 100

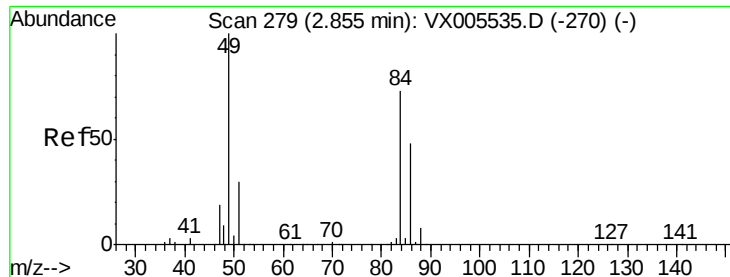
74 24.1 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

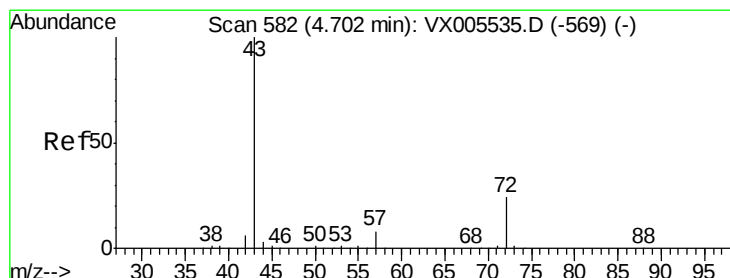
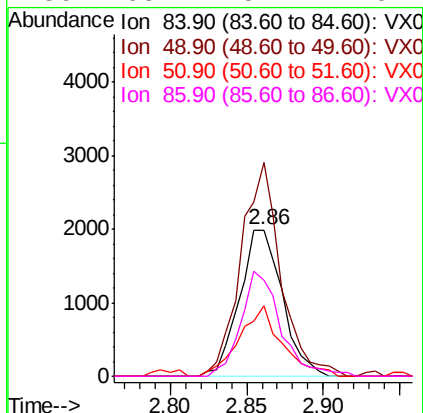
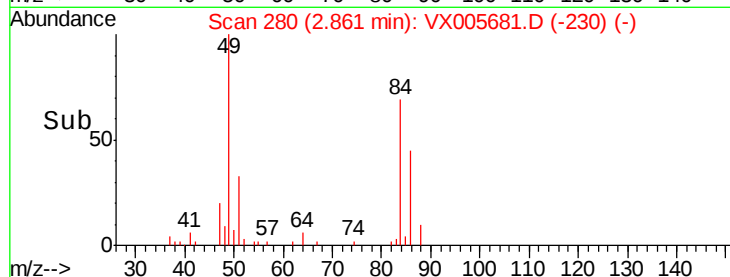
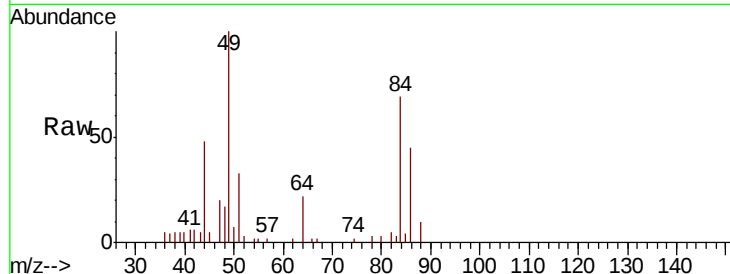




#20
Methvlene Chloride
Concen: 1.289 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

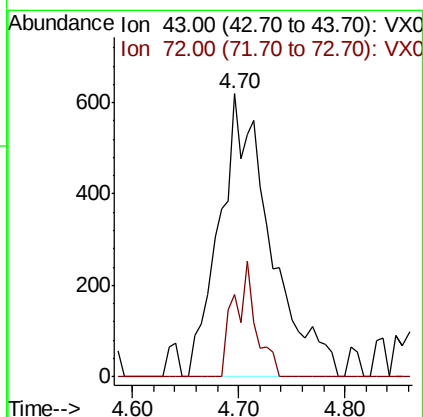
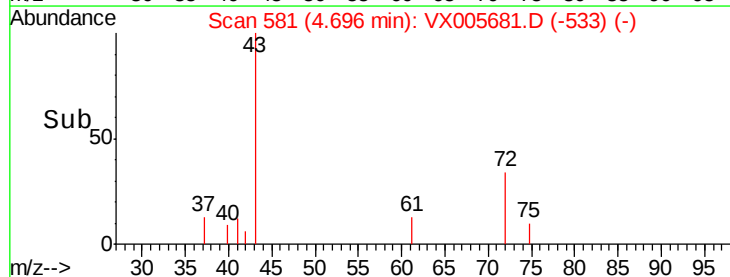
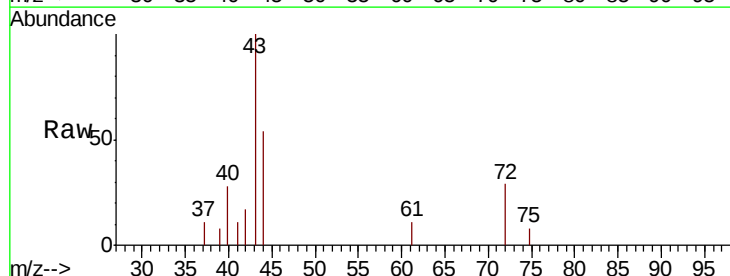
Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#01

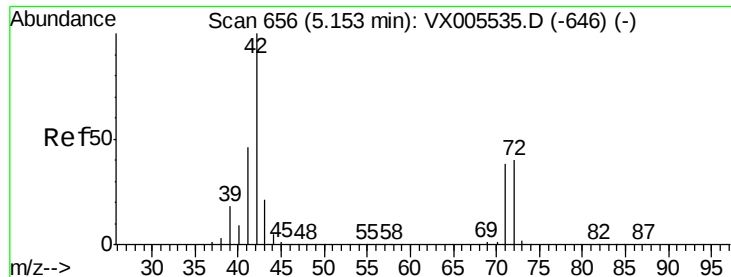
Tot Ion: 84	Resp: 3869
Ion Ratio	Lower Upper
84 100	
49 145.9	109.5 164.3
51 47.9	33.3 49.9
86 65.4	52.7 79.1



#25
2-Butanone
Concen: 0.759 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Tgt Ion: 43	Resp:	2070	
Ion	Ratio	Lower	Upper
43	100		
72	28.9	19.2	28.8#





#29

Tetrahydrofuran

Concen: 0.723 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#01

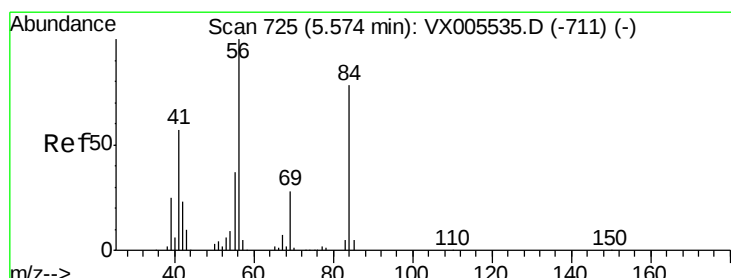
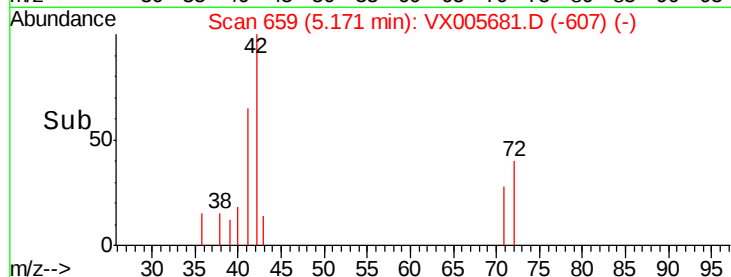
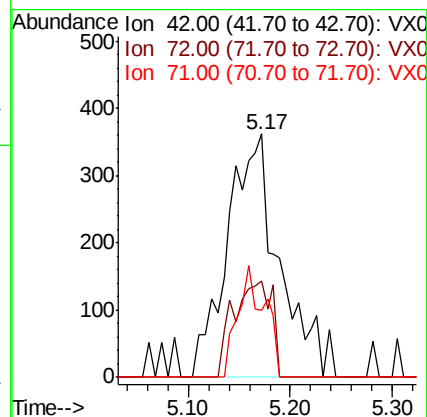
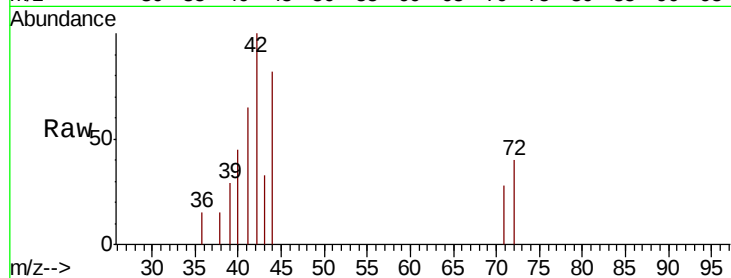
Tot Ion: 42 Resp: 1284

Ion Ratio Lower Upper

42 100

72 29.4 32.0 48.0#

71 23.8 29.8 44.8#



#31

Cyclohexane

Concen: 1.024 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

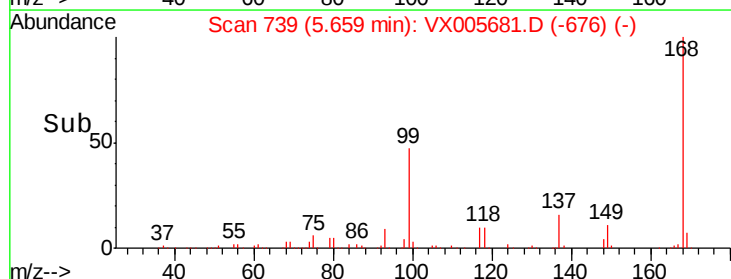
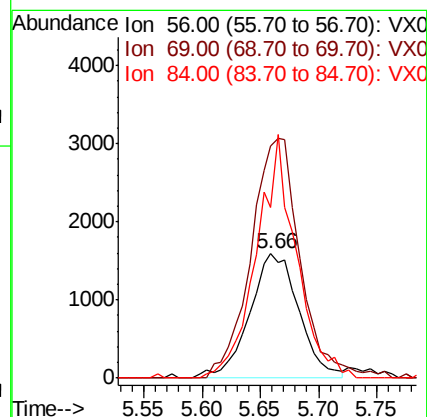
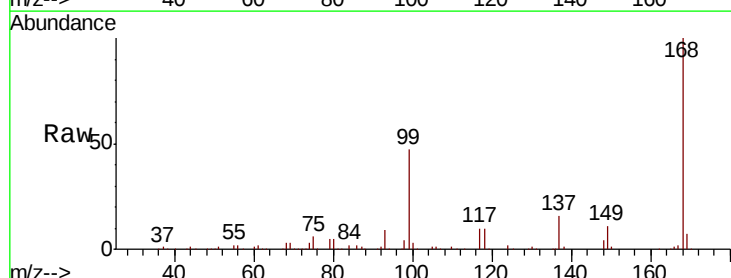
Tgt Ion: 56 Resp: 4683

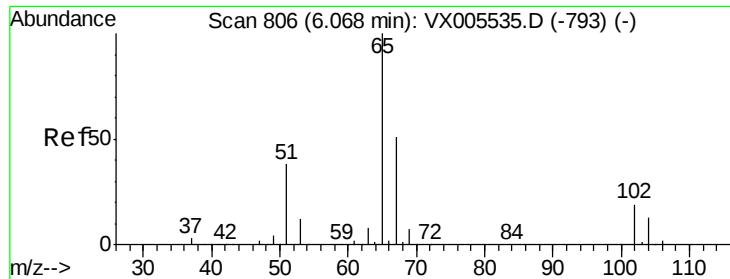
Ion Ratio Lower Upper

56 100

69 187.1 22.6 34.0#

84 137.7 62.7 94.1#





#33

1,2-Dichloroethane-d4

Concen: 45.784 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

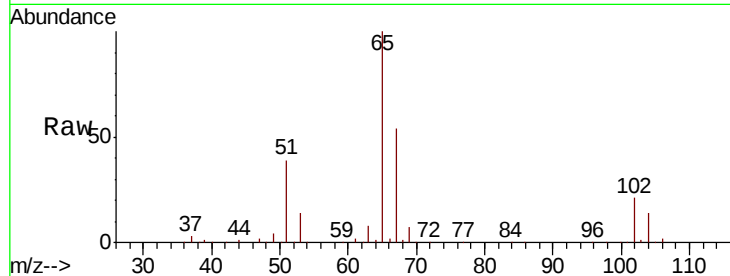
PB114242ZHE#01

Tot Ion: 65 Resp: 155259

Ion Ratio Lower Upper

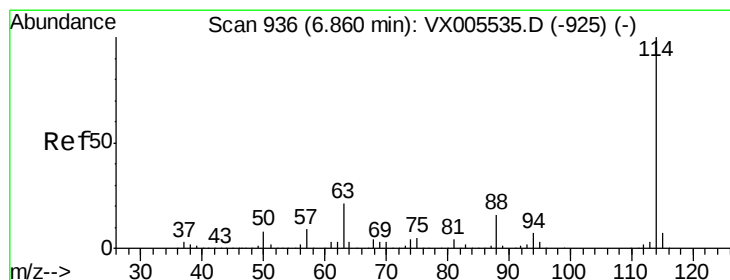
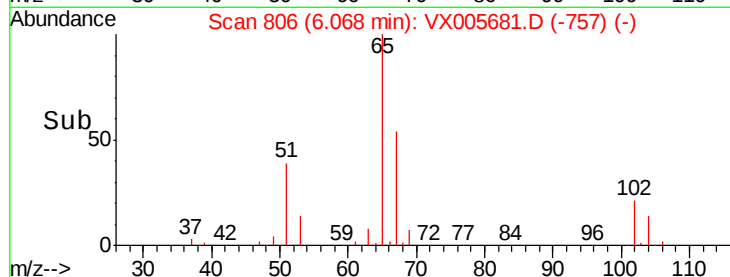
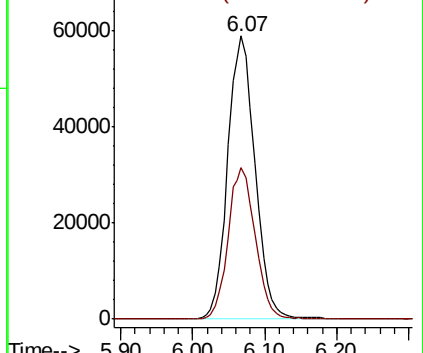
65 100

67 53.4 0.0 105.0



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

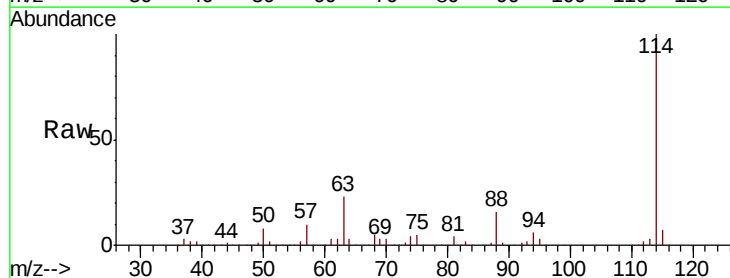
Tgt Ion: 114 Resp: 388146

Ion Ratio Lower Upper

114 100

63 22.7 0.0 42.8

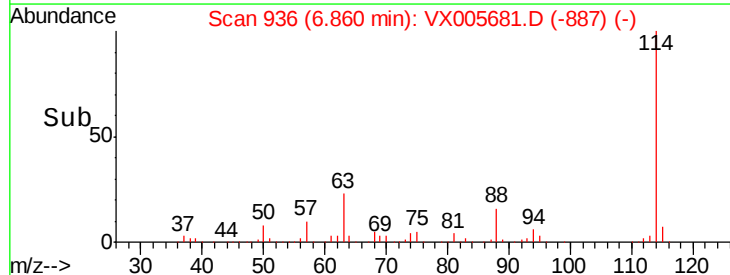
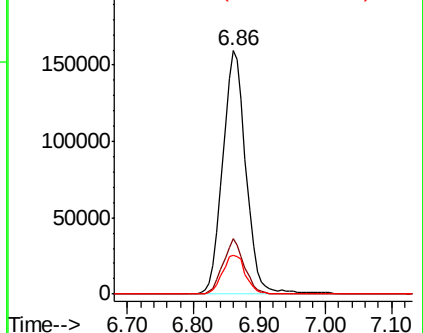
88 15.9 0.0 31.2

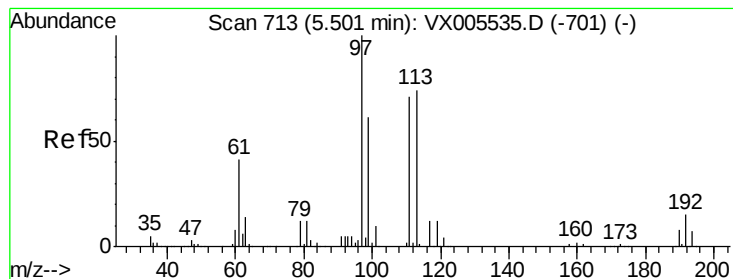


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.700 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#01

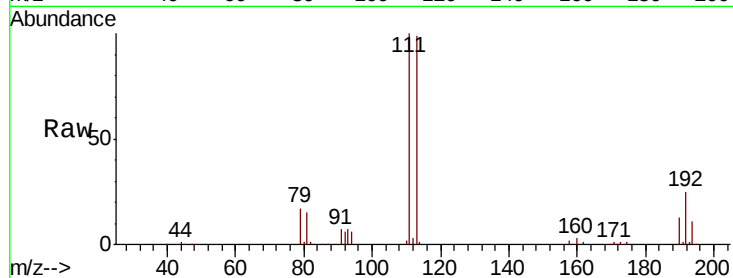
Tot Ion:113 Resp: 127993

Ion Ratio Lower Upper

113 100

111 105.2 82.3 123.5

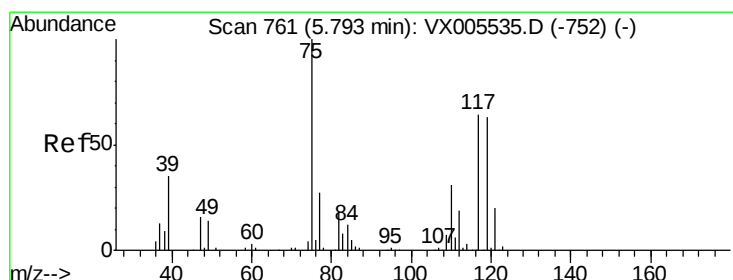
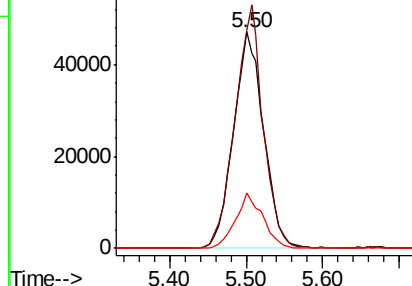
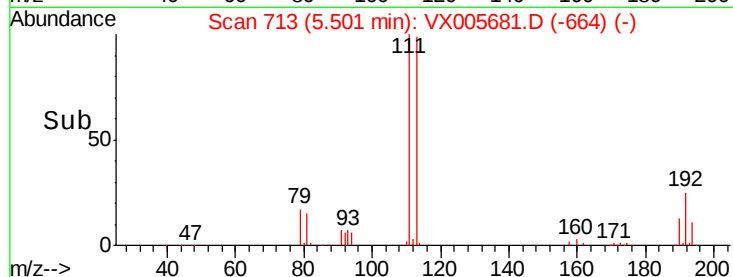
192 23.5 17.9 26.9



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: 4.993 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

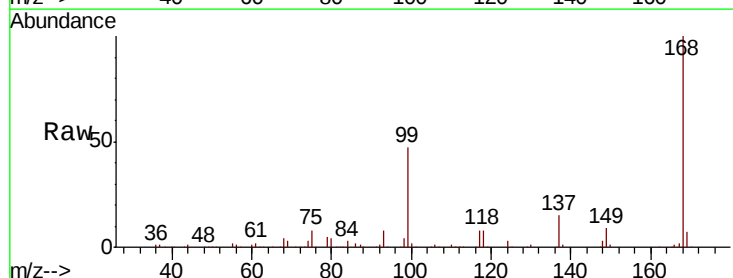
Tgt Ion: 75 Resp: 18807

Ion Ratio Lower Upper

75 100

110 8.8 17.4 52.2#

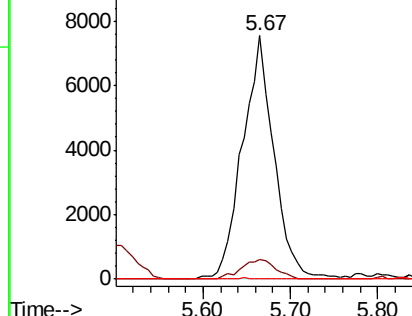
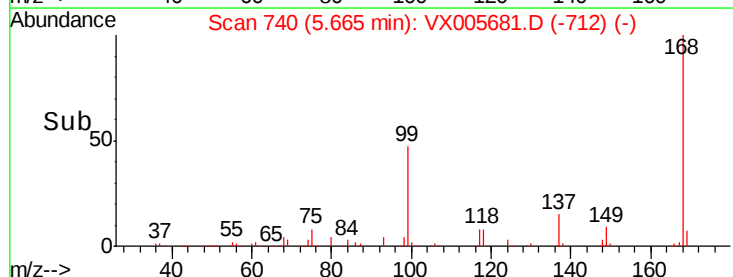
77 0.1 25.8 38.6#

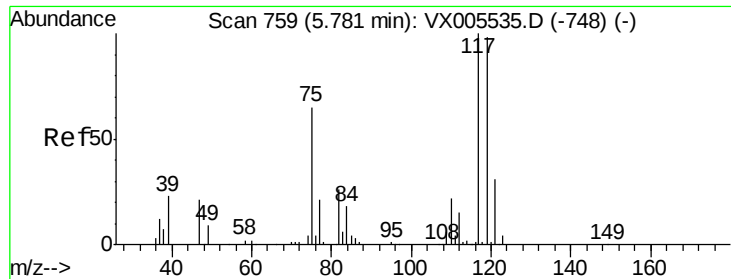


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.347 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#01

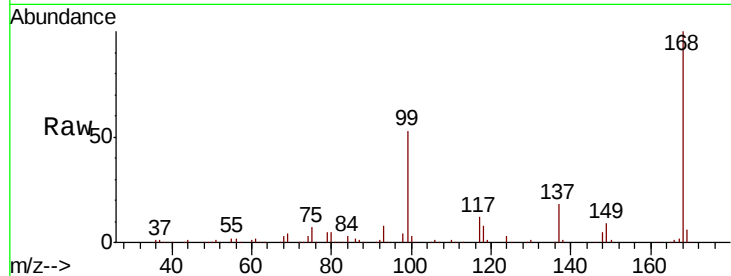
Tot Ion:117 Resp: 25182

Ion Ratio Lower Upper

117 100

119 4.4 78.1 117.1#

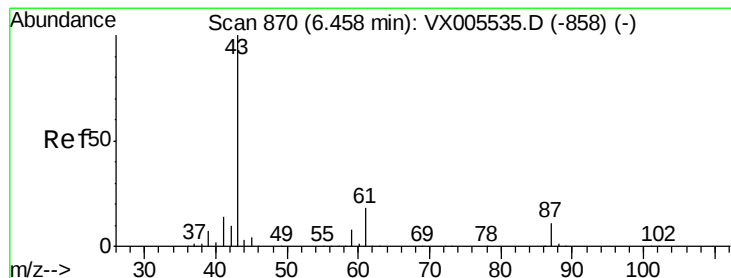
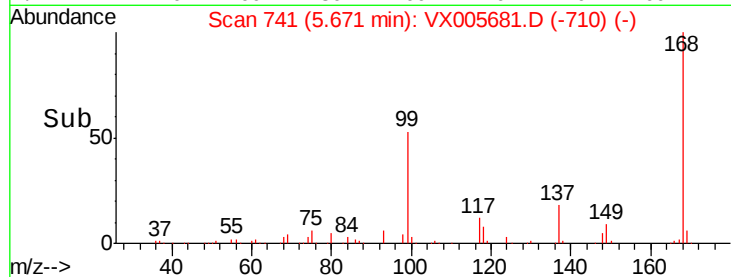
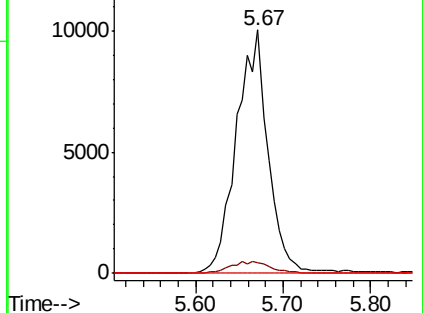
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 24.654 ug/l

RT: 6.45 min Scan# 869

Delta R.T. -0.01 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

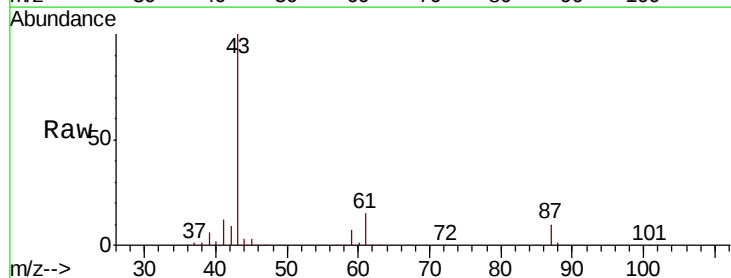
Tgt Ion: 43 Resp: 177583

Ion Ratio Lower Upper

43 100

61 18.9 14.6 22.0

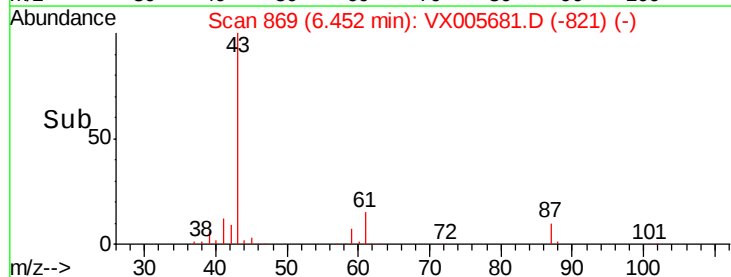
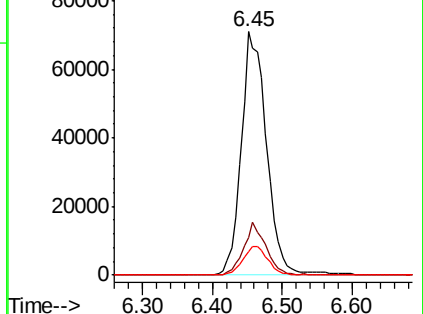
87 11.9 9.6 14.4

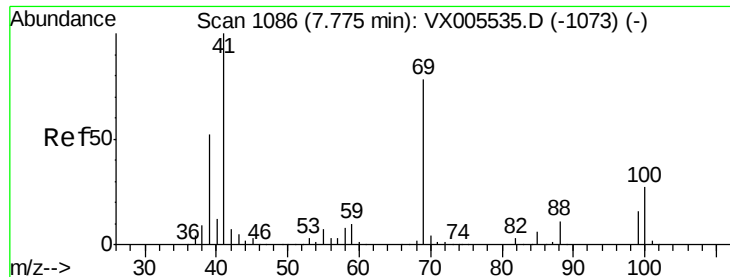


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 1.885 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

PB114242ZHE#01

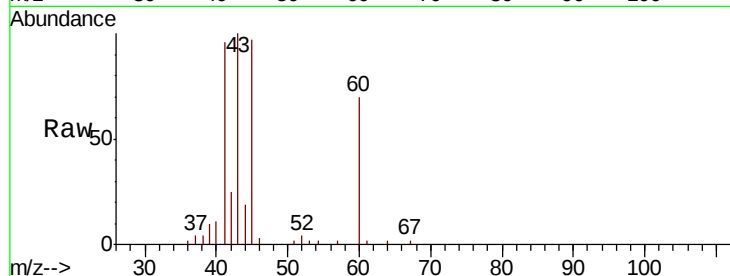
Tot Ion: 41 Resp: 6616

Ion Ratio Lower Upper

41 100

69 0.0 63.2 94.8#

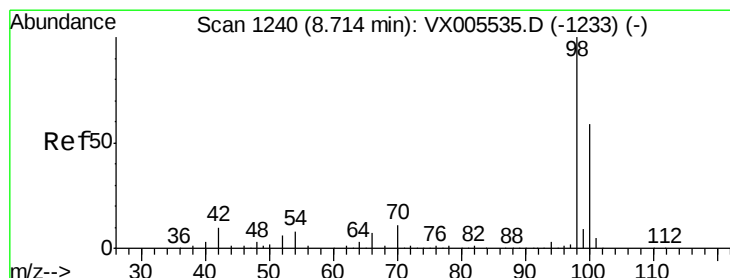
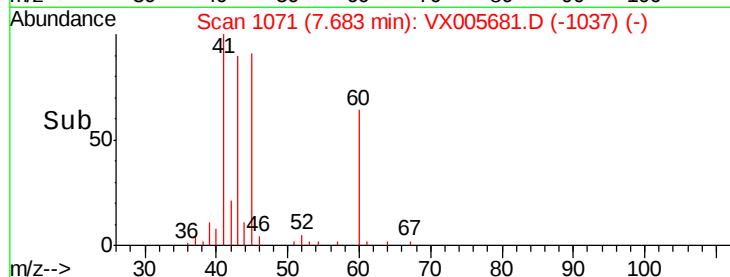
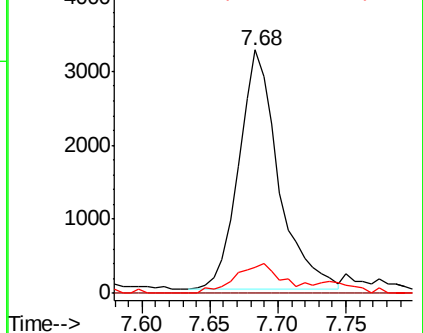
39 13.9 42.2 63.2#



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: 49.225 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005681.D

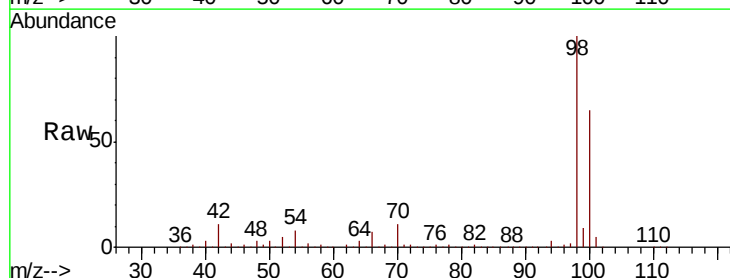
Acq: 30 Oct 2018 01:23

Tgt Ion: 98 Resp: 464861

Ion Ratio Lower Upper

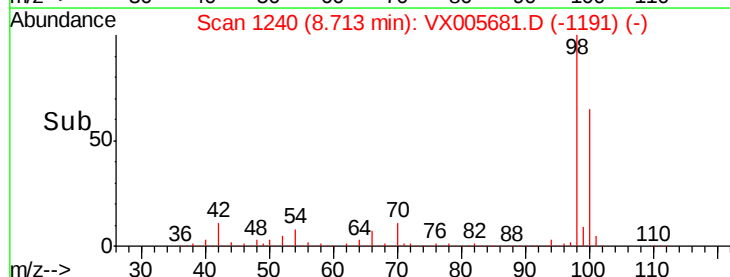
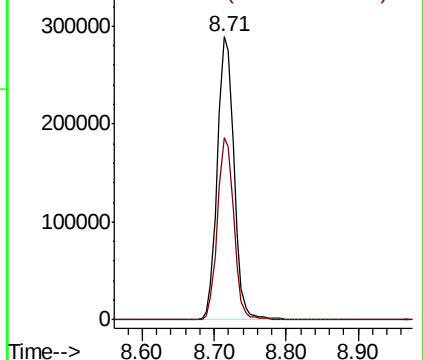
98 100

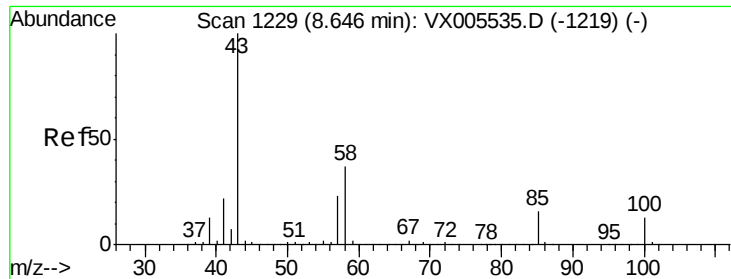
100 63.8 51.3 76.9



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: 0.601 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

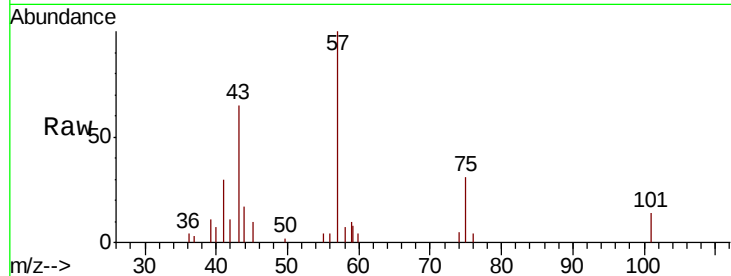
PB114242ZHE#01

Tot Ion: 43 Resp: 2909

Ion Ratio Lower Upper

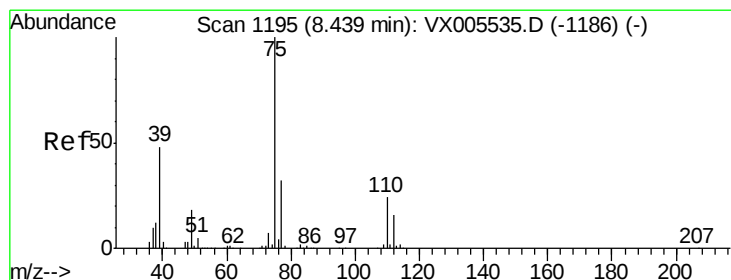
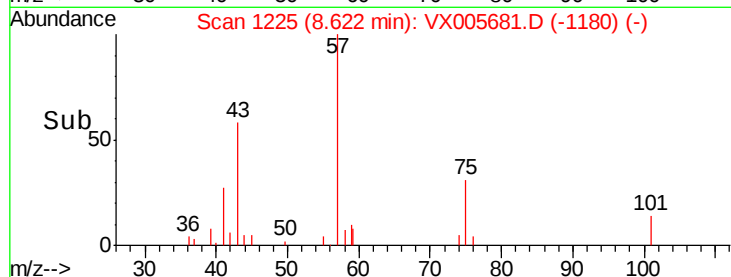
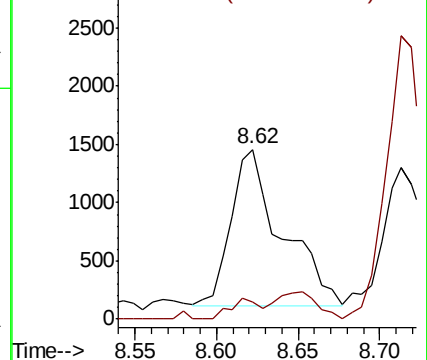
43 100

58 7.4 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 0.249 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

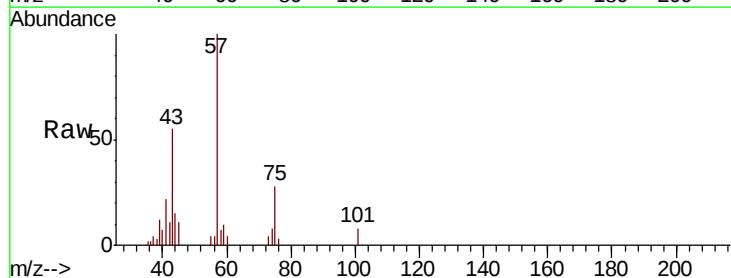
Tgt Ion: 75 Resp: 1053

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

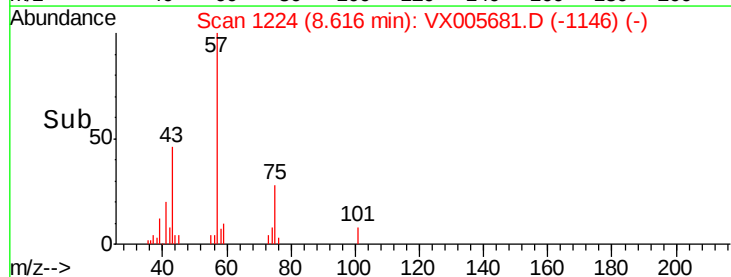
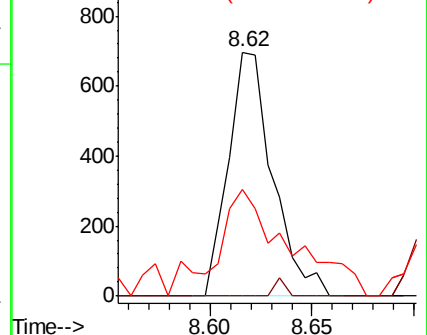
39 34.1 38.2 57.2#

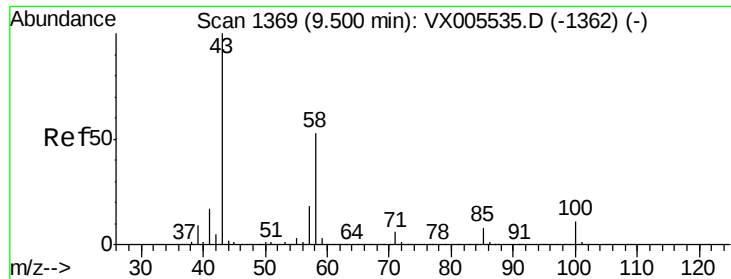


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

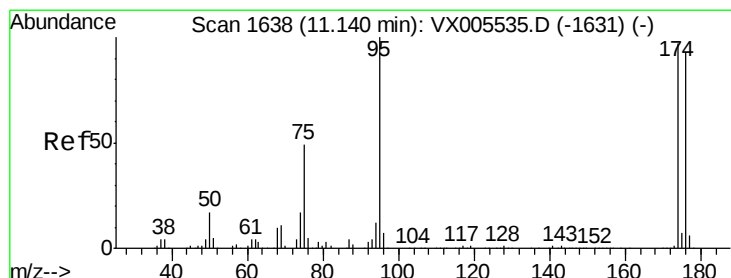
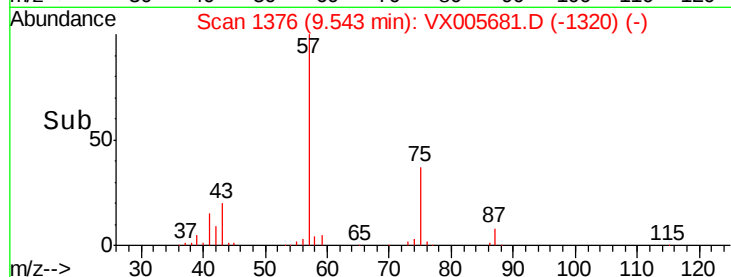
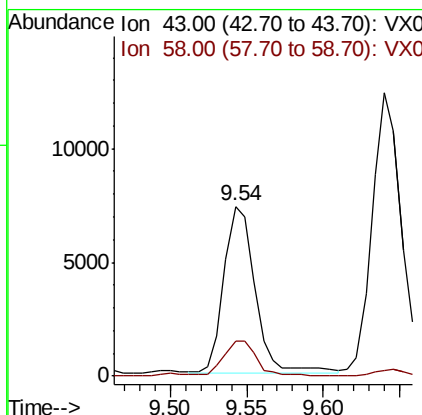
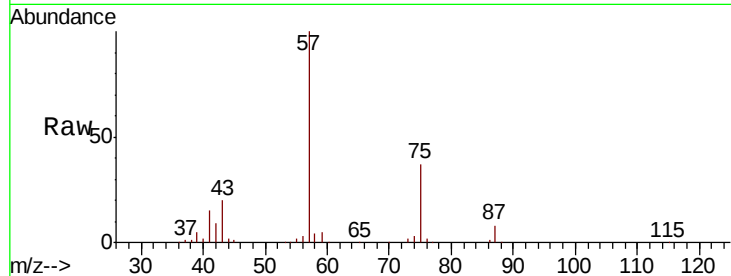




#59
2-Hexanone
Concen: 2.756 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

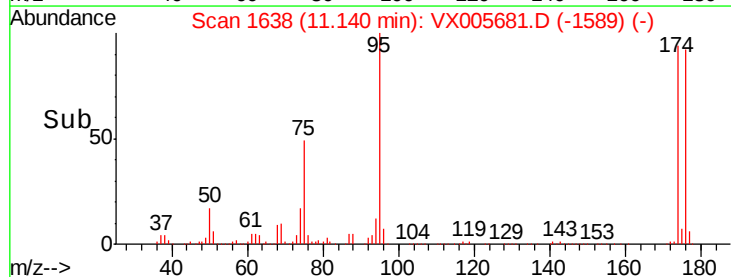
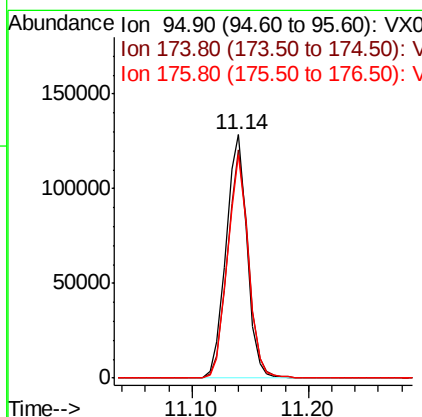
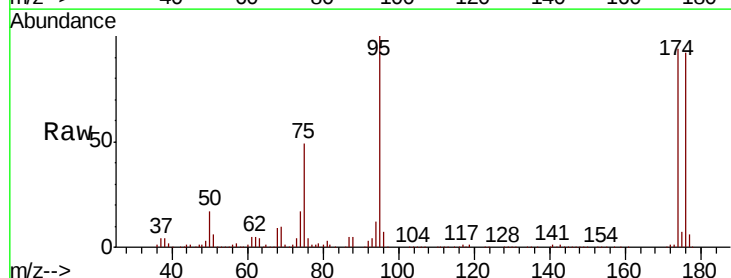
Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#01

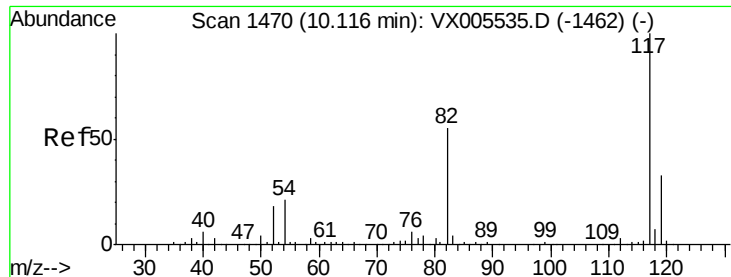
Tot Ion: 43 Resp: 10520
Ion Ratio Lower Upper
43 100
58 21.6 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 45.403 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Tgt Ion: 95 Resp: 161925
Ion Ratio Lower Upper
95 100
174 92.7 0.0 184.4
176 90.6 0.0 177.4

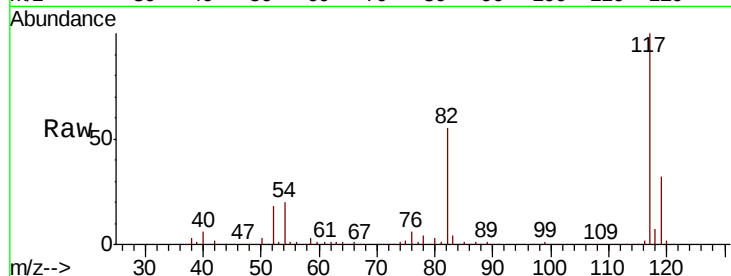




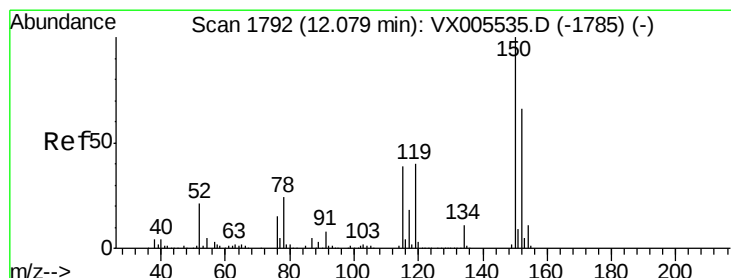
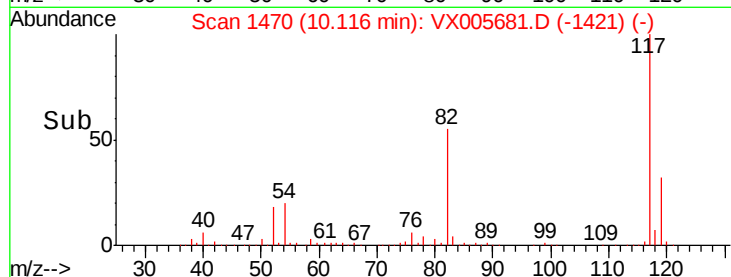
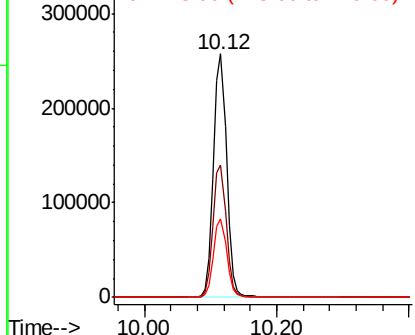
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Instrument :
MSVOA_X
ClientSampleId :
PB114242ZHE#01

Tot Ion:117 Resp: 353393
Ion Ratio Lower Upper
117 100
82 54.6 44.1 66.1
119 32.0 26.2 39.2

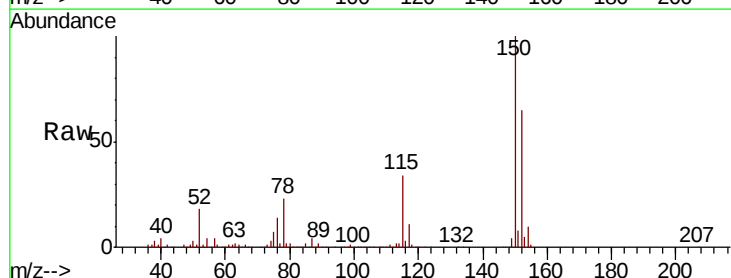


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

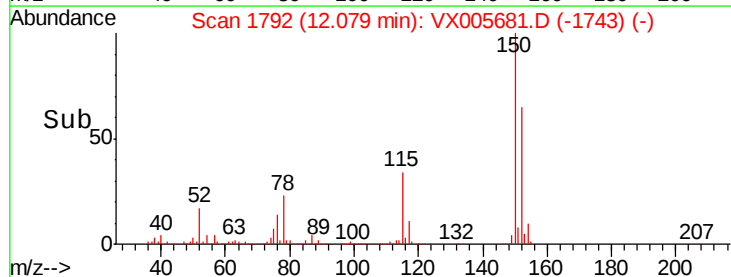
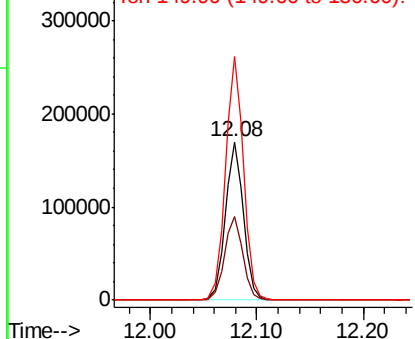


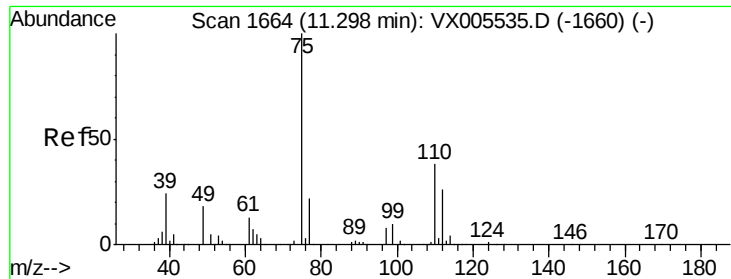
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005681.D
Acq: 30 Oct 2018 01:23

Tgt Ion:152 Resp: 200145
Ion Ratio Lower Upper
152 100
115 54.1 39.4 118.1
150 154.4 0.0 346.4



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: 18.690 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

Instrument :

MSVOA_X

ClientSampleId :

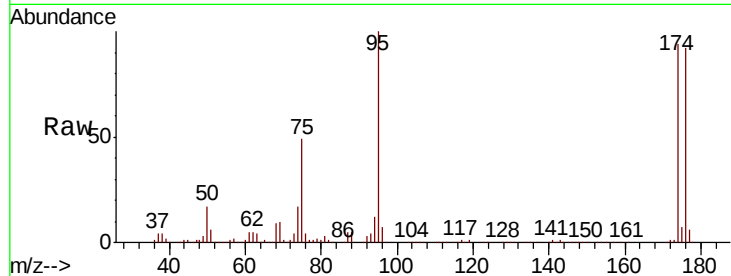
PB114242ZHE#01

Tot Ion: 75 Resp: 79257

Ion Ratio Lower Upper

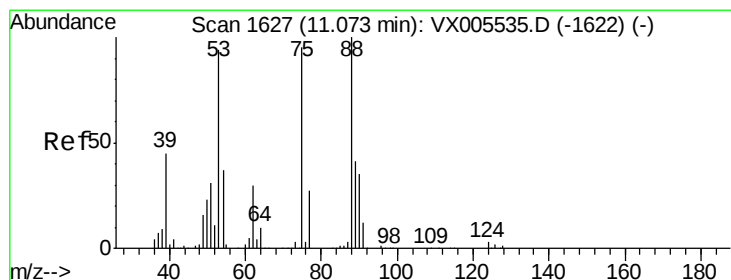
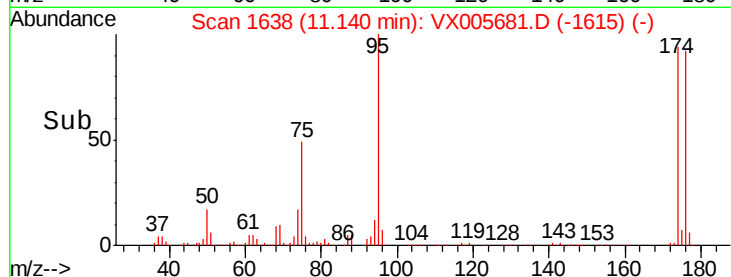
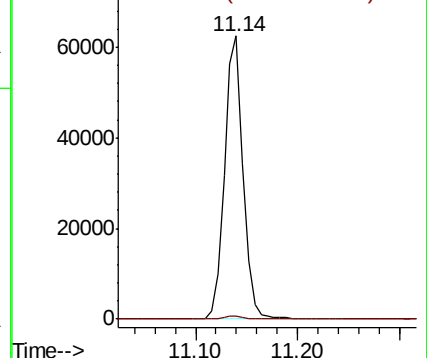
75 100

77 1.3 20.5 61.6#



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: 61.070 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005681.D

Acq: 30 Oct 2018 01:23

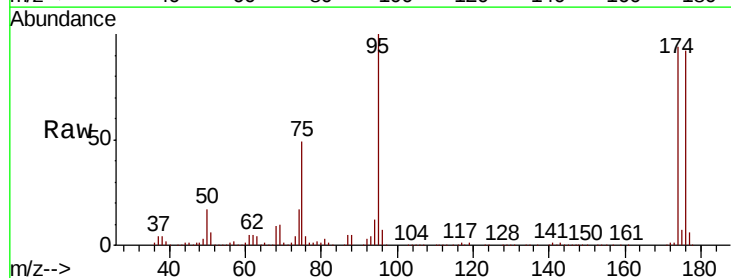
Tgt Ion: 75 Resp: 79257

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

89 0.0 39.8 59.8#



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

