

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005348.D
 Acq On : 15 Oct 2018 17:15
 Operator : JC/MD
 Sample : PB113825ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113825ZHE#04

Quant Time: Oct 16 03:37:47 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

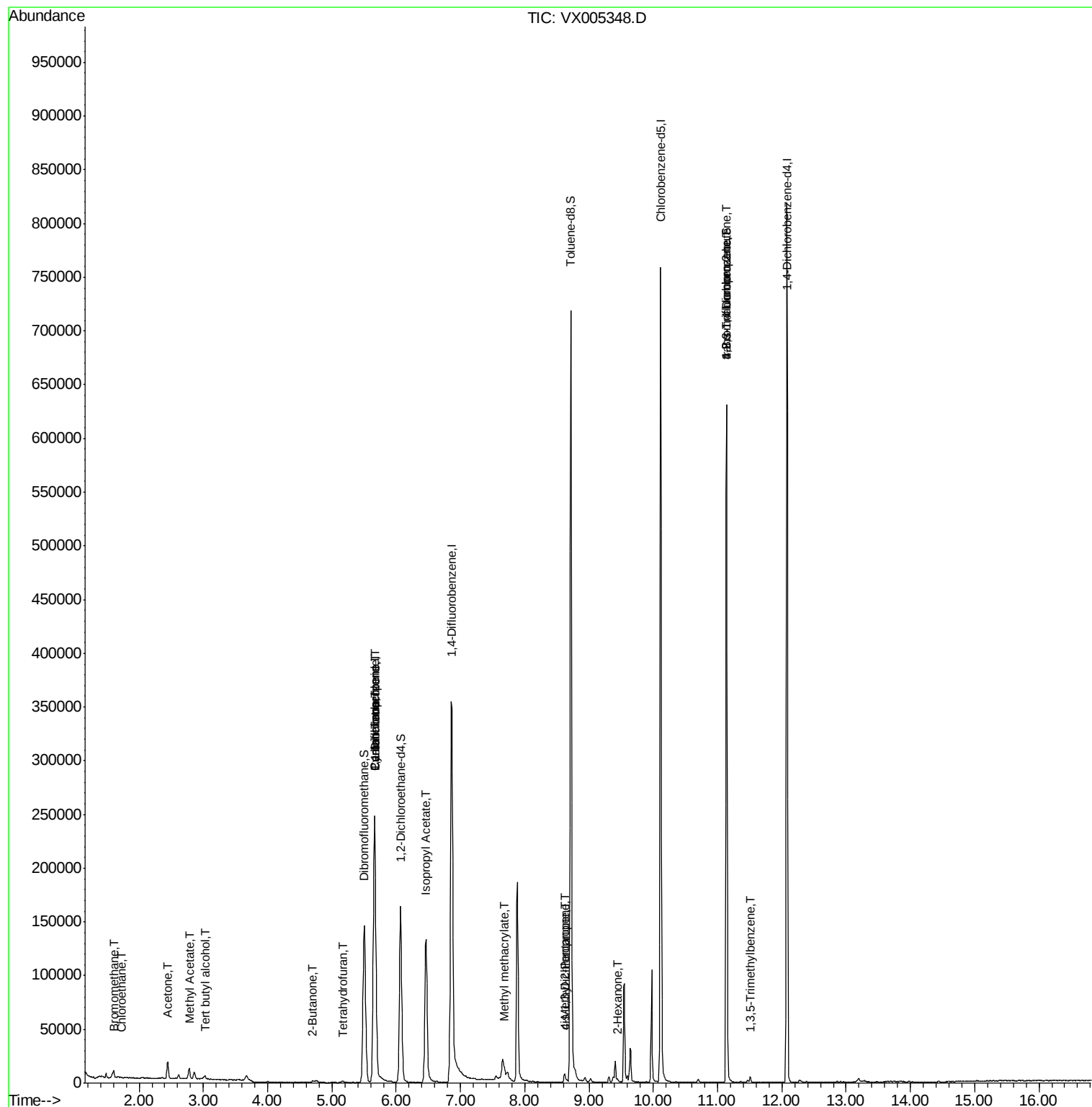
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262006	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	385173	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	359656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	173107	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	153443	52.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.54%	
35) Dibromofluoromethane	5.50	113	124275	48.71	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.42%	
50) Toluene-d8	8.72	98	466388	53.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	11.14	95	153318	46.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.20%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.62	94	60	0.619	ug/l #	3
6) Chloroethane	1.73	64	1611	1.154	ug/l #	64
11) Tert butyl alcohol	3.03	59	2458	2.997	ug/l #	72
13) Acrolein	2.29	56	222	Below Cal	#	42
16) Acetone	2.45	43	17156	10.204	ug/l	97
18) Methyl Acetate	2.78	43	12242	2.559	ug/l	96
20) Methylene Chloride	2.85	84	2681	Below Cal		92
25) 2-Butanone	4.70	43	2947	1.198	ug/l	94
29) Tetrahydrofuran	5.17	42	1183	0.754	ug/l	92
31) Cyclohexane	5.67	56	4577	1.145	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16943	4.542	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22775	6.076	ug/l #	17
43) Isopropyl Acetate	6.46	43	181140	28.345	ug/l	97
44) Trichloroethene	7.21	130	190	Below Cal		74
48) Methyl methacrylate	7.68	41	7988	2.410	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2299	0.520	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	1157	0.294	ug/l #	67
59) 2-Hexanone	9.44	43	1261	0.354	ug/l #	22
76) 1,2,3-Trichloropropane	11.14	75	75103	22.367	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	2060	0.234	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.14	75	75103	67.961	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: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

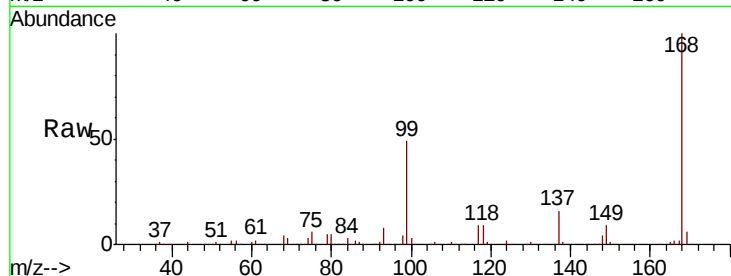
PB113825ZHE#04

Tot Ion:168 Resp: 262006

Ion Ratio Lower Upper

168 100

99 49.2 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

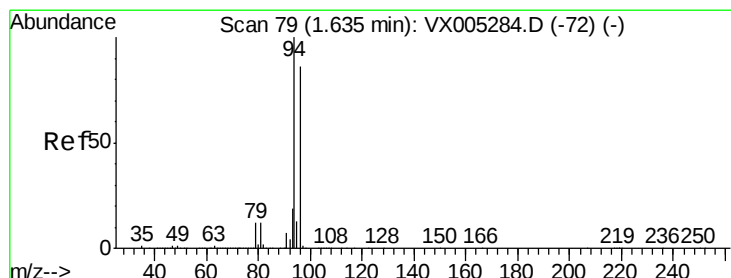
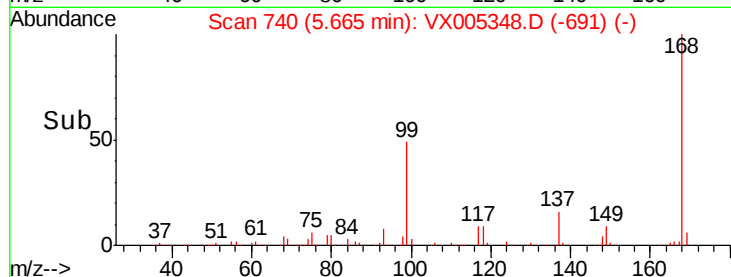
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.619 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX005348.D

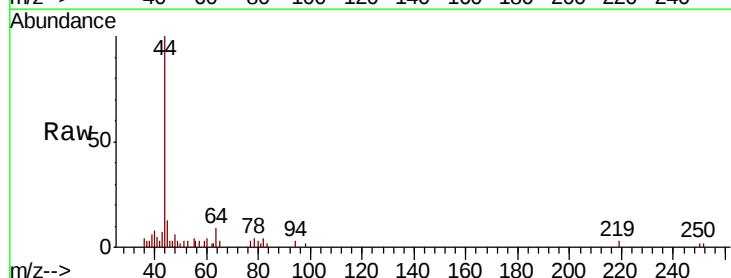
Acq: 15 Oct 2018 17:15

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

120

100

80

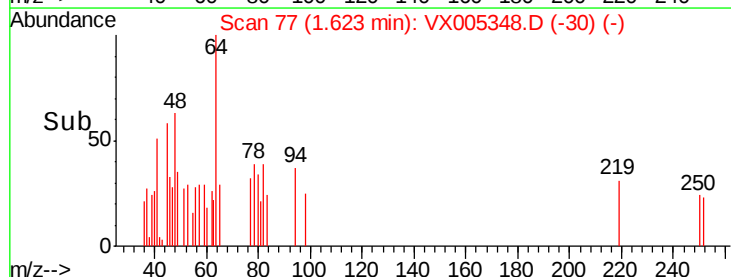
60

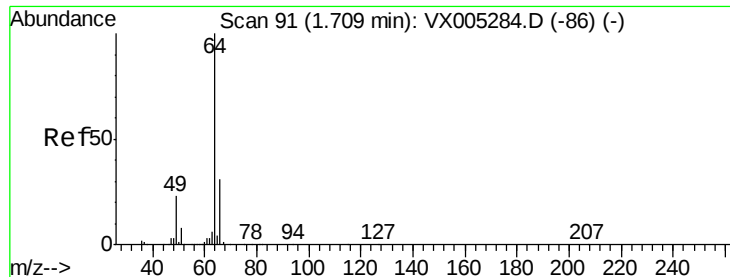
40

20

0

Time--> 1.61 1.62 1.63





#6

Chloroethane

Concen: 1.154 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

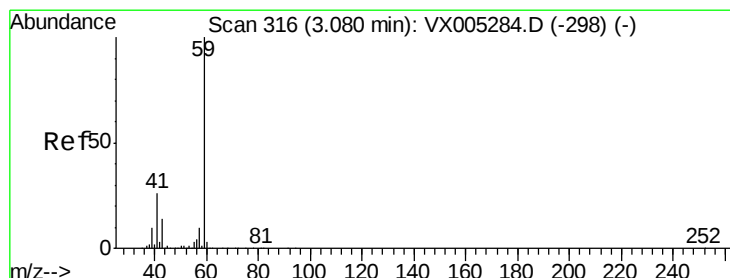
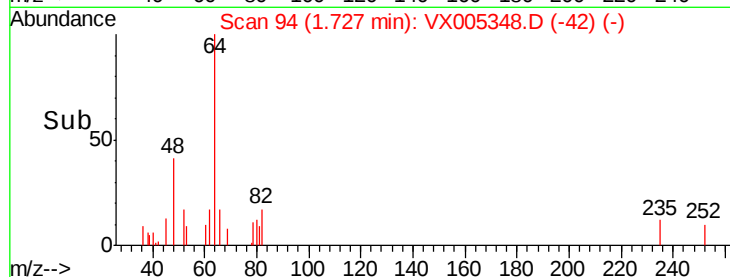
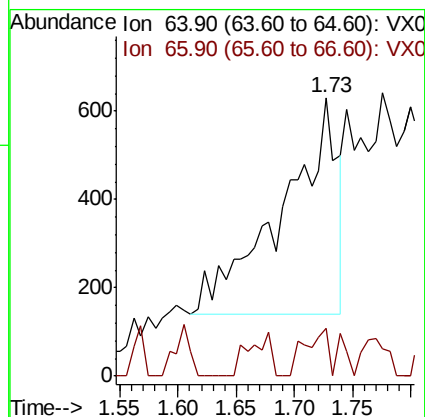
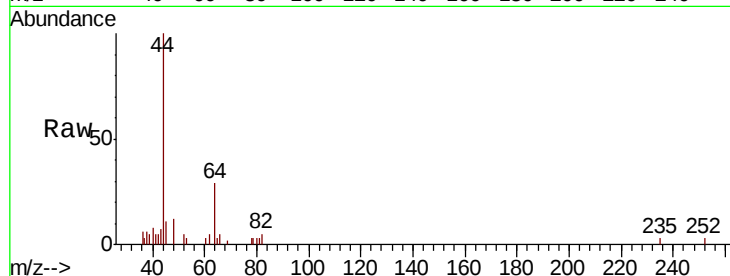
PB113825ZHE#04

Tot Ion: 64 Resp: 1611

Ion Ratio Lower Upper

64 100

66 11.0 24.6 36.8#



#11

Tert butyl alcohol

Concen: 2.997 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX005348.D

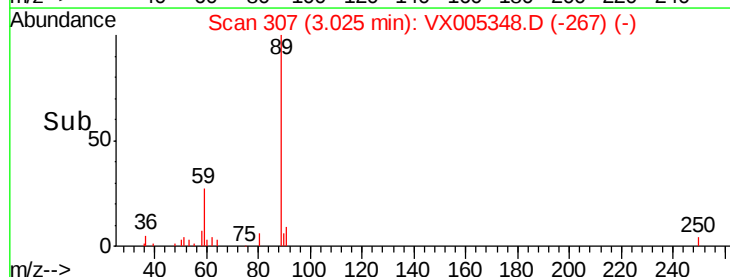
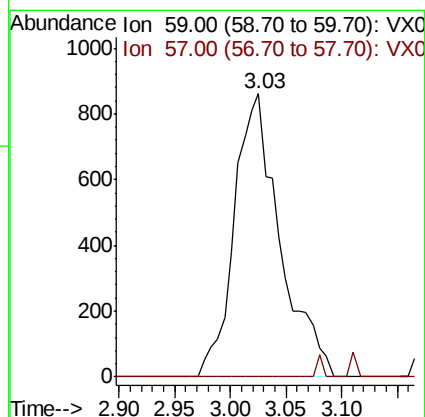
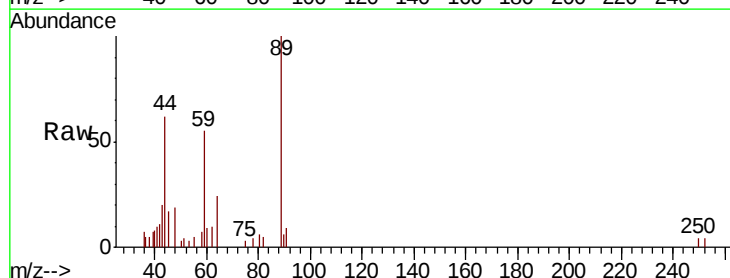
Acq: 15 Oct 2018 17:15

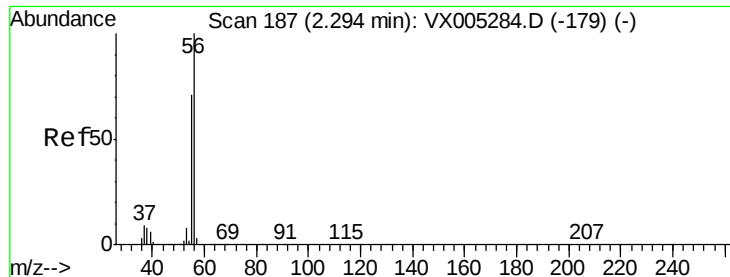
Tgt Ion: 59 Resp: 2458

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: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

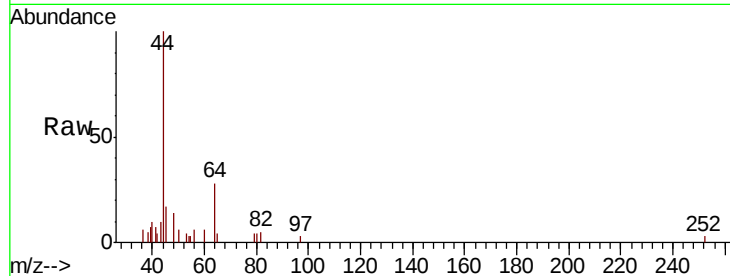
PB113825ZHE#04

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

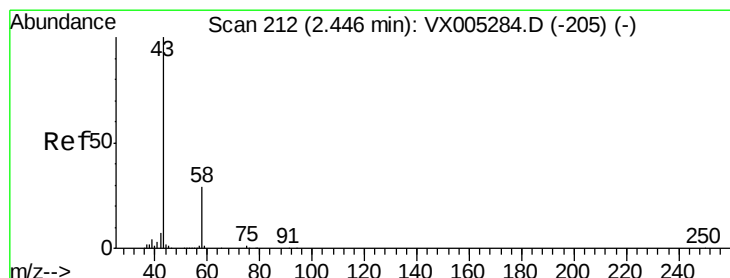
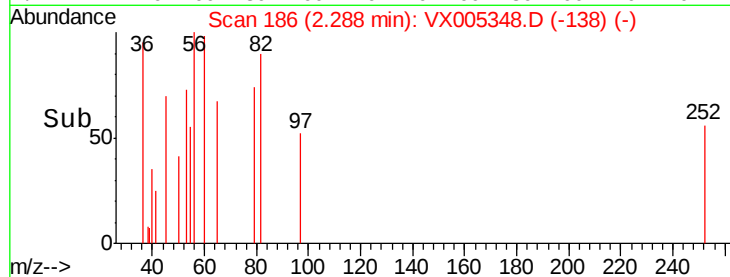
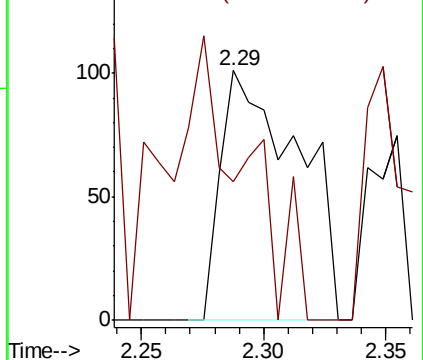
56 100

55 115.3 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.204 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005348.D

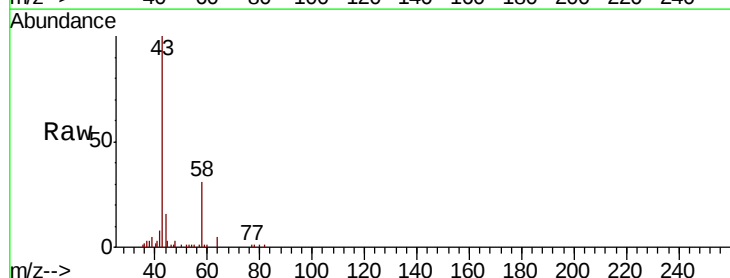
Acq: 15 Oct 2018 17:15

Tgt Ion: 43 Resp: 17156

Ion Ratio Lower Upper

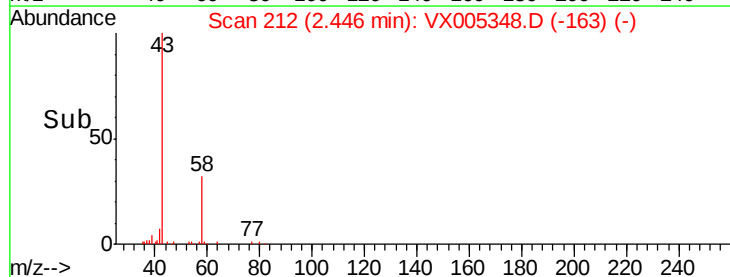
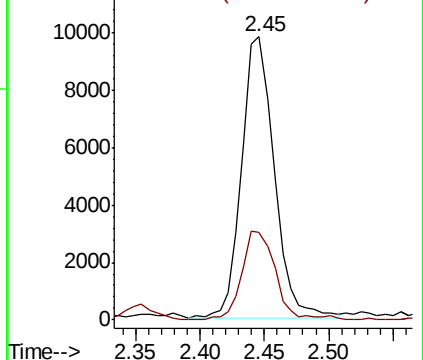
43 100

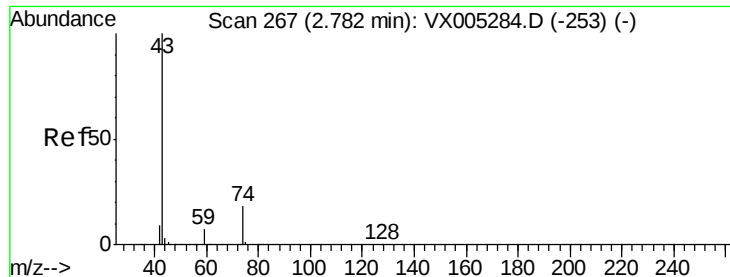
58 31.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

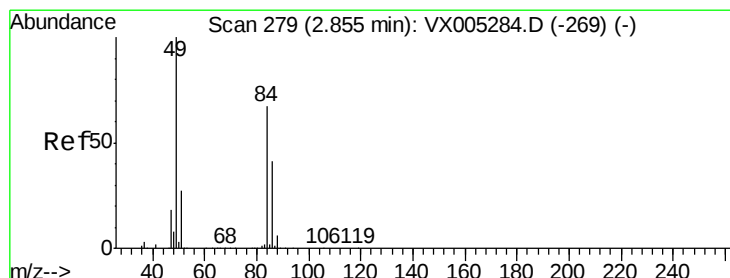
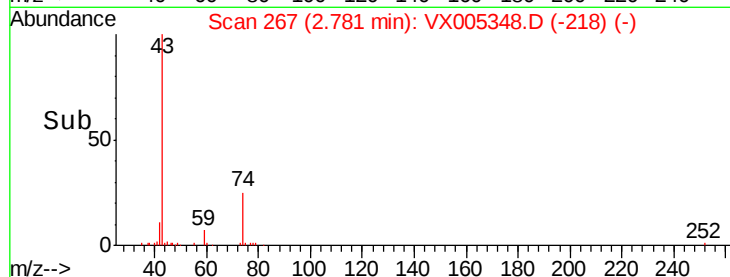
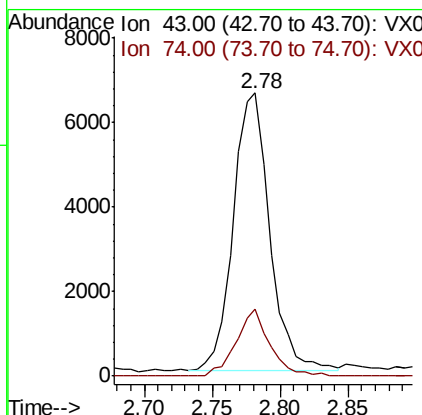
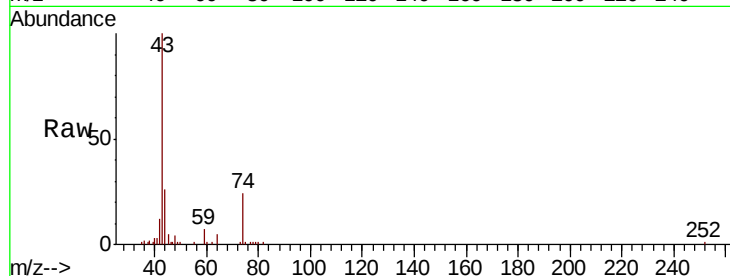




#18
Methvl Acetate
Concen: 2.559 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

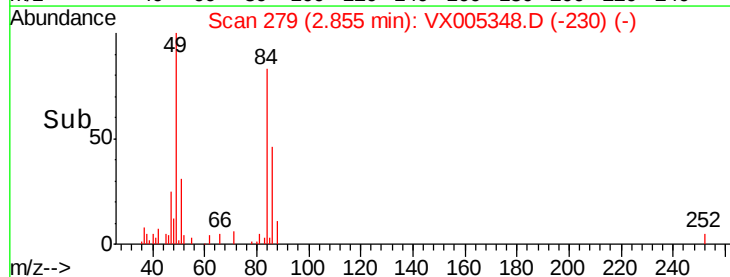
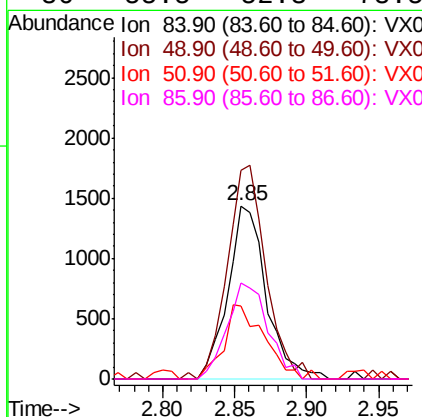
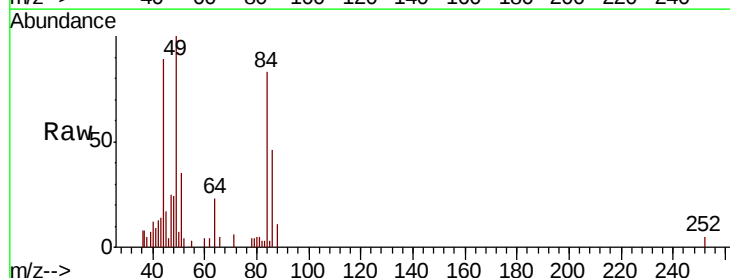
Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

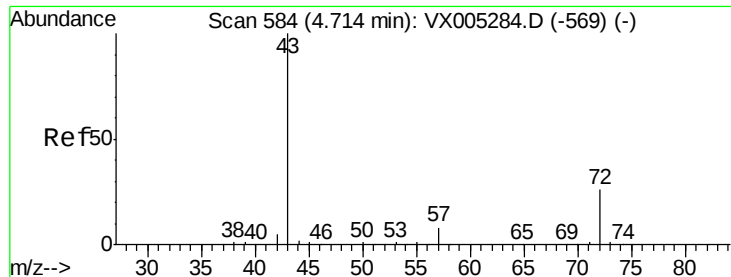
Tot Ion: 43 Resp: 12242
Ion Ratio Lower Upper
43 100
74 22.3 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion: 84 Resp: 2681
Ion Ratio Lower Upper
84 100
49 120.7 101.2 151.8
51 42.5 29.5 44.3
86 55.5 52.3 78.5





#25

2-Butanone

Concen: 1.198 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.02 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

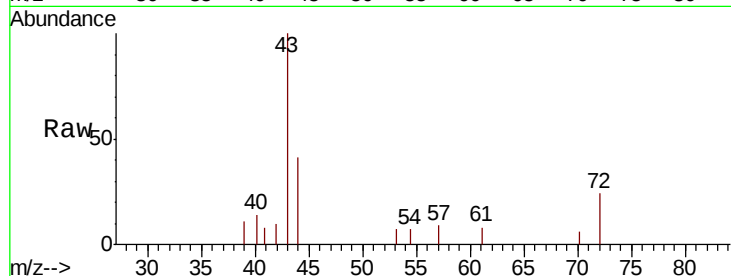
PB113825ZHE#04

Tot Ion: 43 Resp: 2947

Ion Ratio Lower Upper

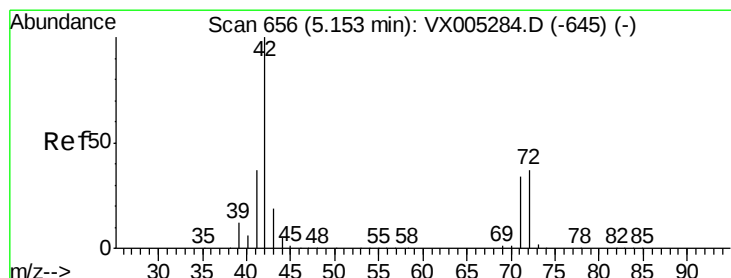
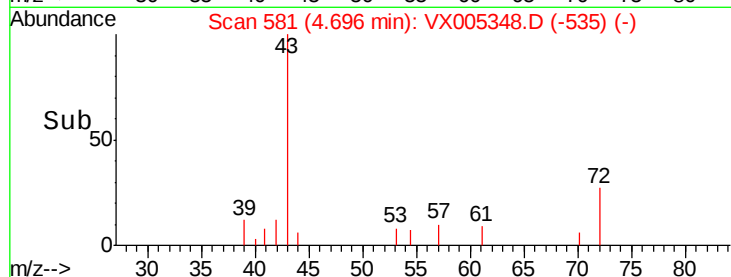
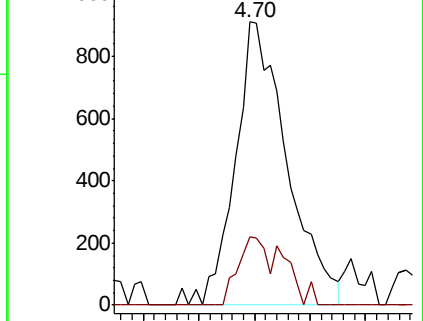
43 100

72 24.2 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.754 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

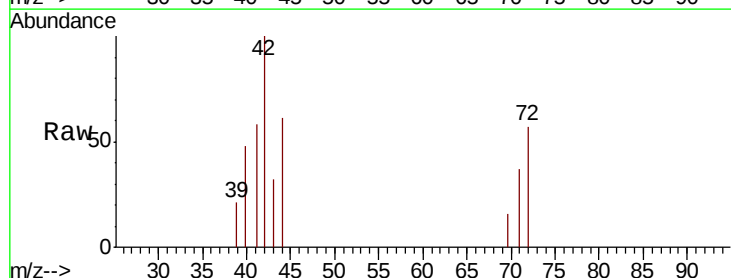
Tgt Ion: 42 Resp: 1183

Ion Ratio Lower Upper

42 100

72 41.9 37.4 56.0

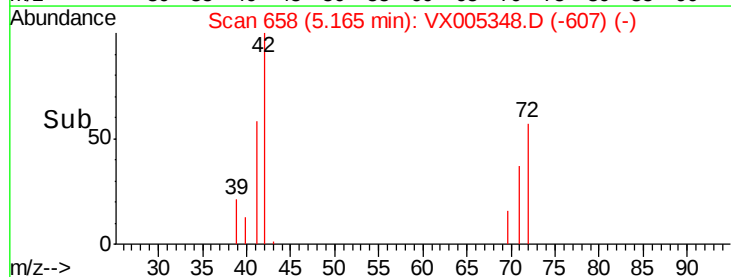
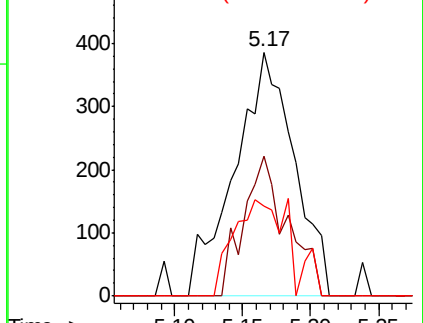
71 37.4 34.5 51.7

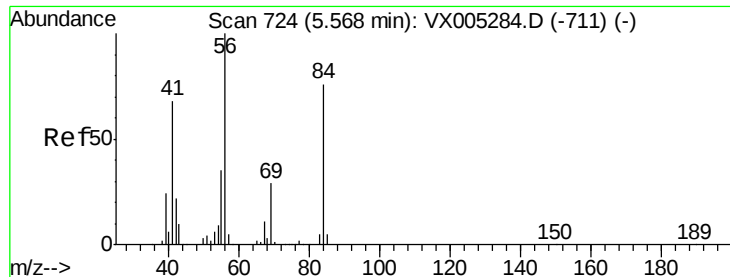


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

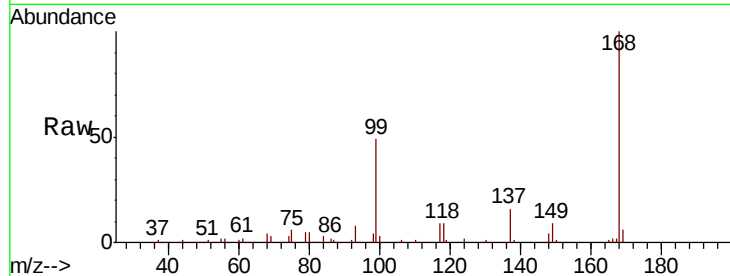




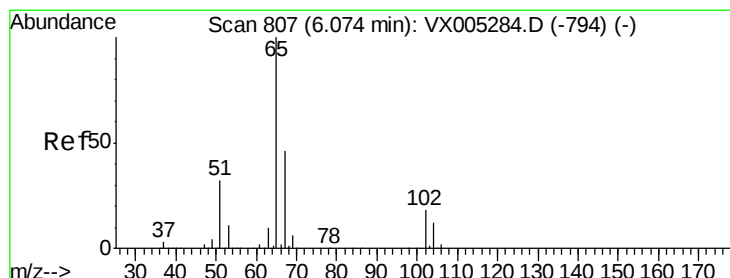
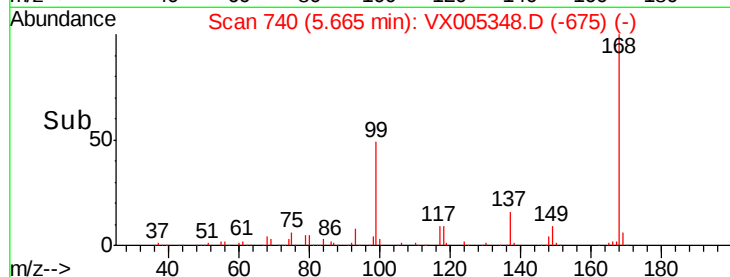
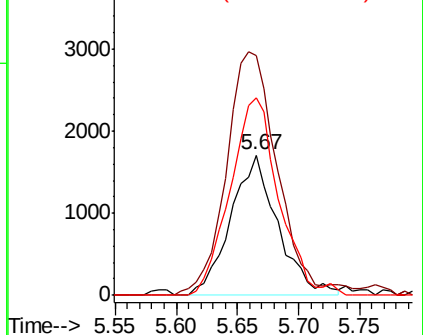
#31
Cyclohexane
Concen: 1.145 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

Tot Ion: 56 Resp: 4577
Ion Ratio Lower Upper
56 100
69 165.8 25.4 38.2#
84 141.1 71.4 107.2#

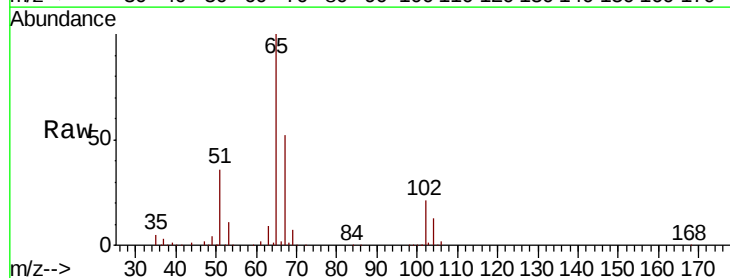


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

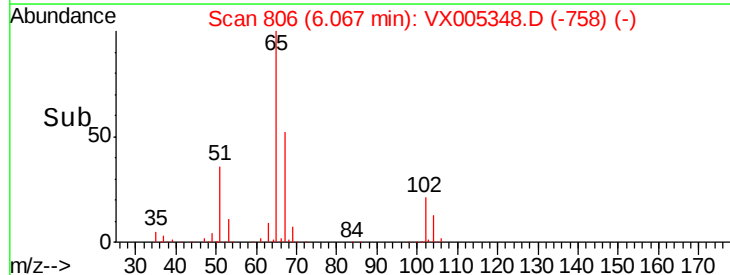
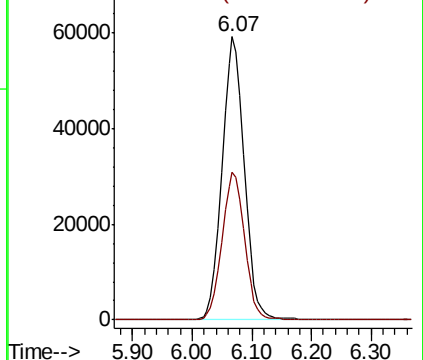


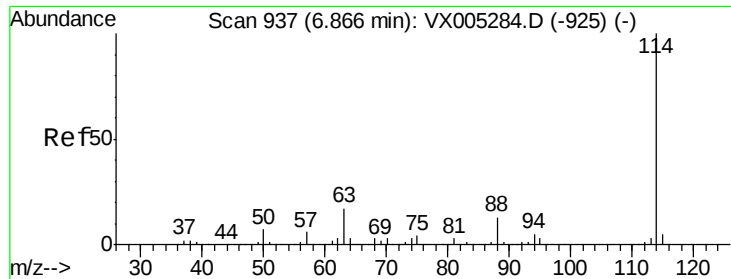
#33
1,2-Dichloroethane-d4
Concen: 52.768 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion: 65 Resp: 153443
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8



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

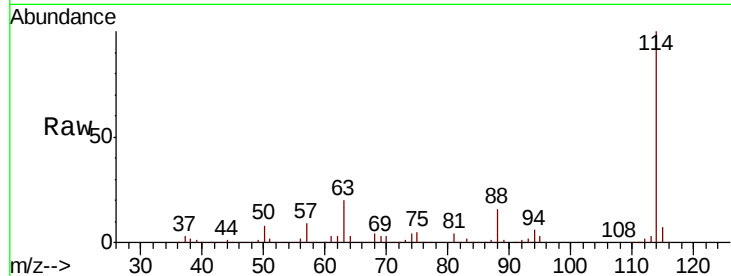




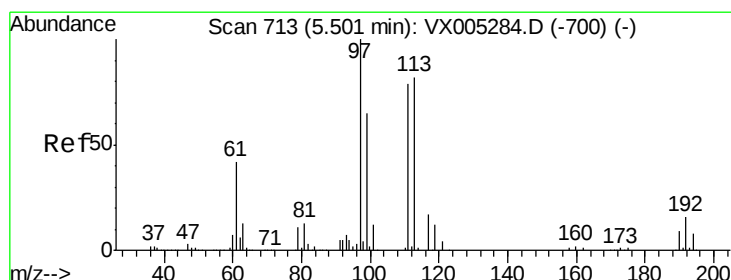
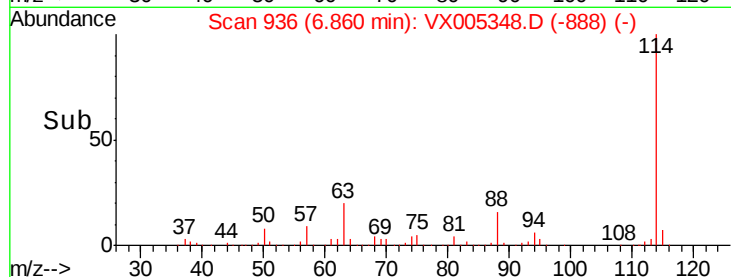
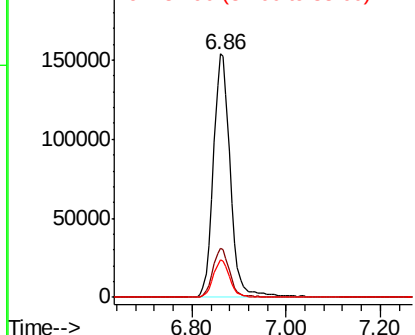
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.01 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

Tot Ion:114 Resp: 385173
Ion Ratio Lower Upper
114 100
63 20.3 0.0 39.0
88 15.5 0.0 30.4

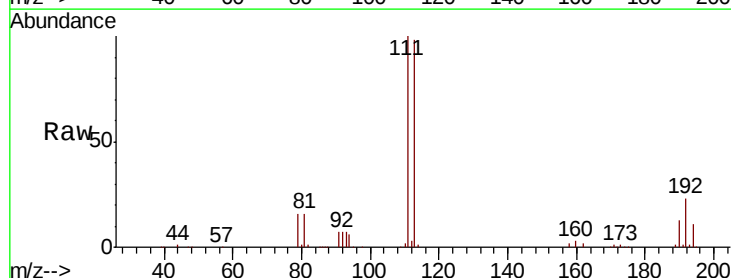


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

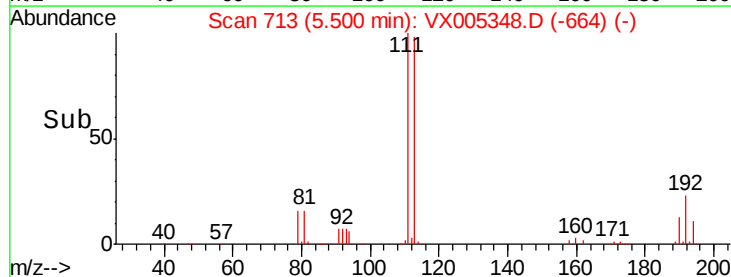
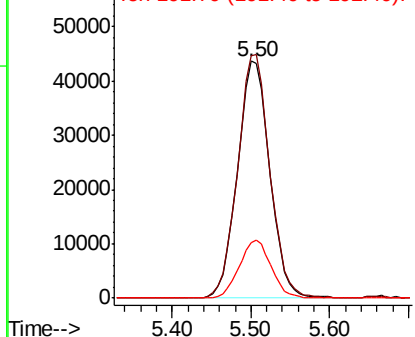


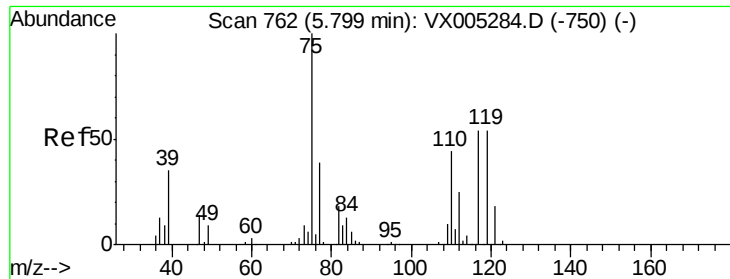
#35
Dibromofluoromethane
Concen: 48.714 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion:113 Resp: 124275
Ion Ratio Lower Upper
113 100
111 102.1 82.4 123.6
192 24.2 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

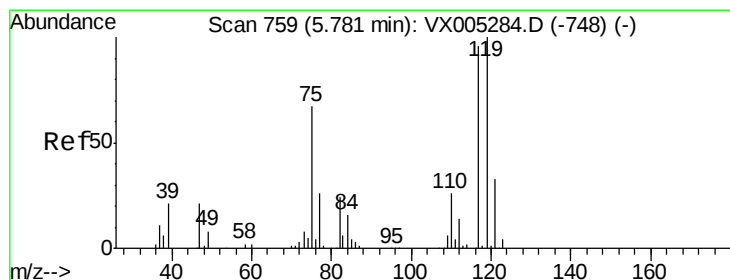
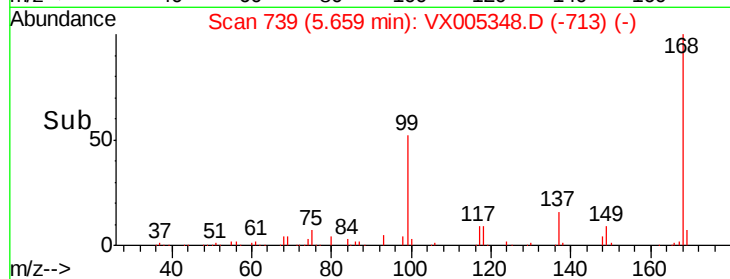
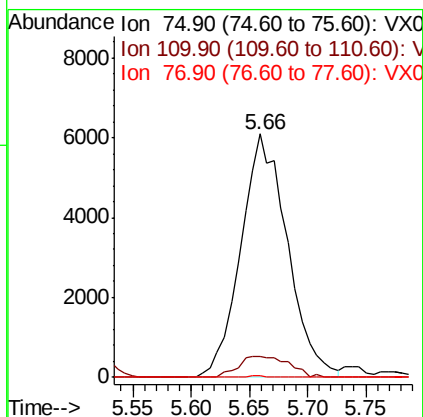
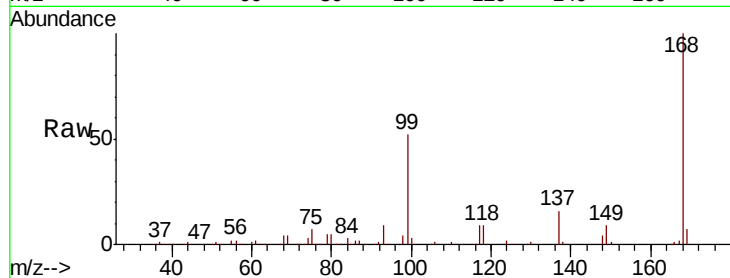




#36
 1,1-Dichloropropene
 Concen: 4.542 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005348.D
 Acq: 15 Oct 2018 17:15

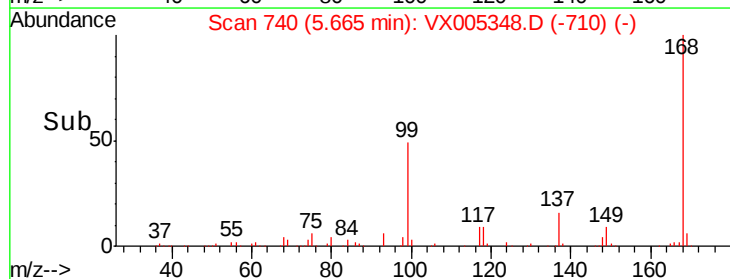
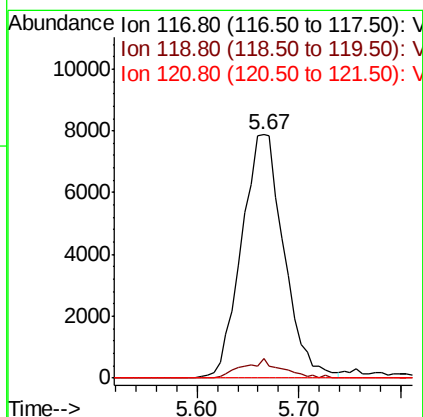
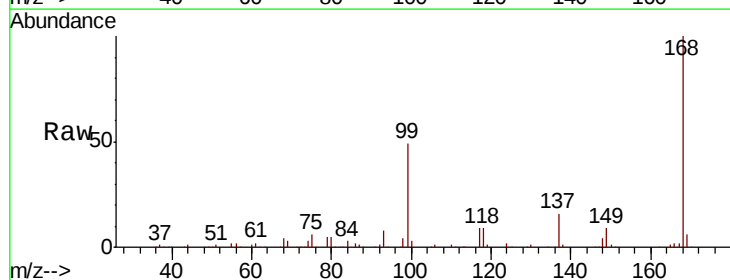
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113825ZHE#04

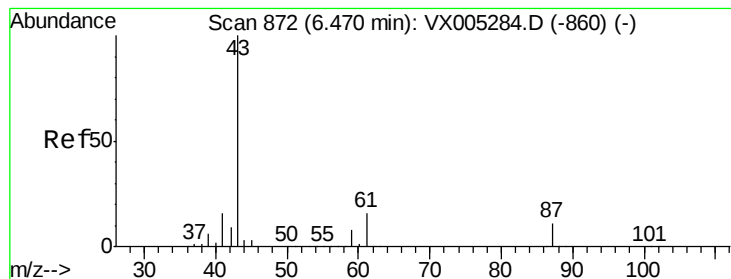
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.0	54.0#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.076 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005348.D
 Acq: 15 Oct 2018 17:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	8.1	78.8	118.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 28.345 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#04

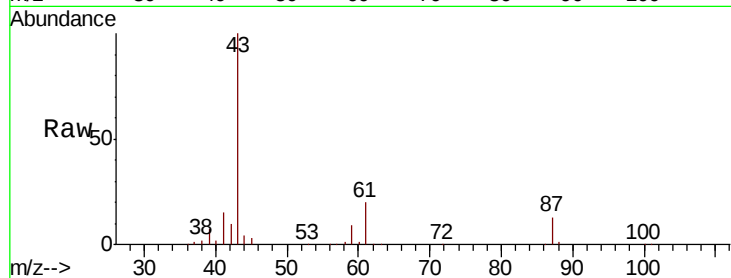
Tot Ion: 43 Resp: 181140

Ion Ratio Lower Upper

43 100

61 19.6 17.0 25.4

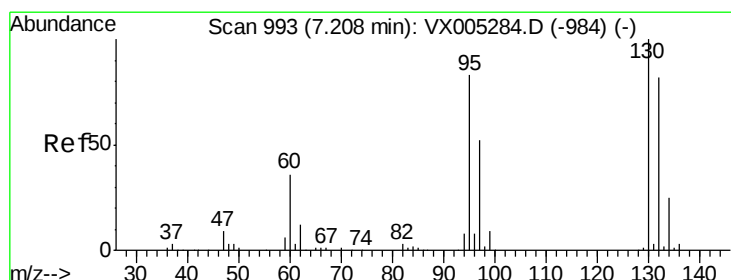
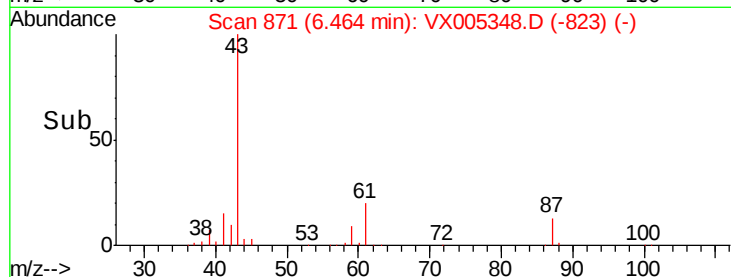
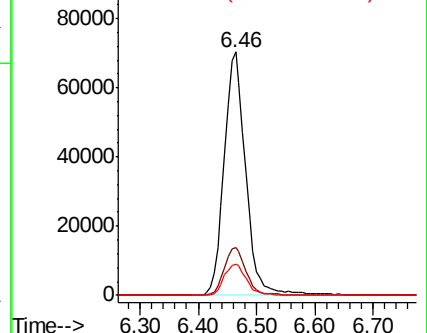
87 13.4 11.4 17.2



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: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005348.D

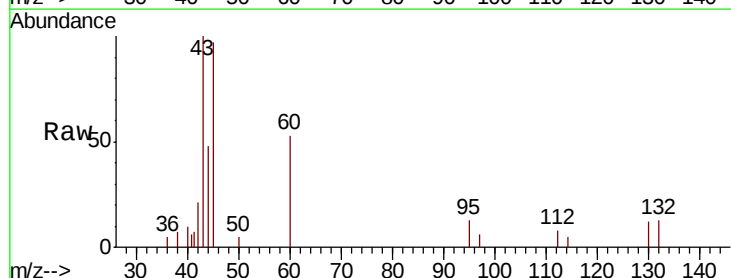
Acq: 15 Oct 2018 17:15

Tgt Ion:130 Resp: 190

Ion Ratio Lower Upper

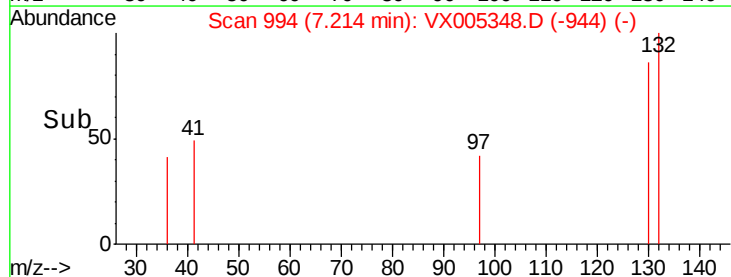
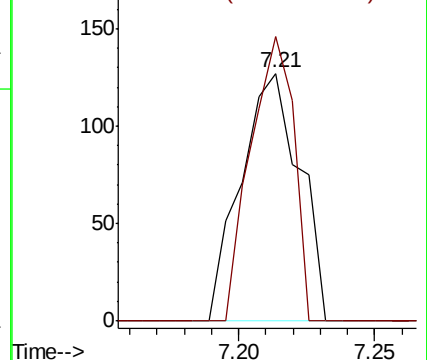
130 100

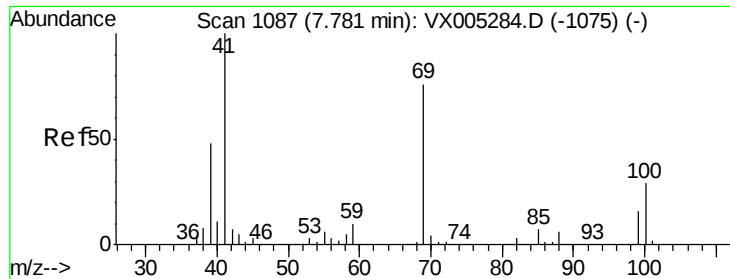
95 115.0 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

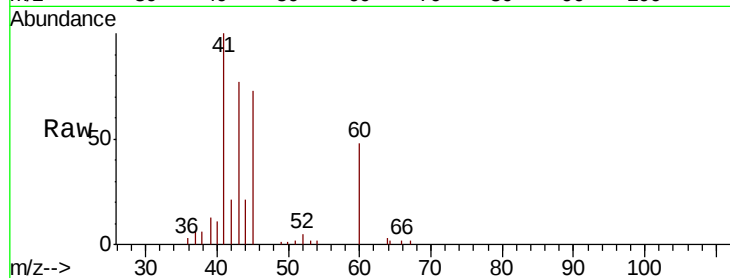




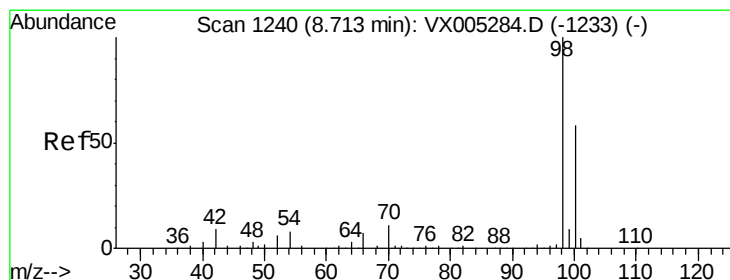
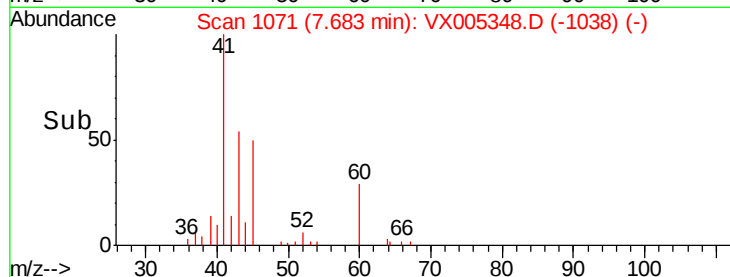
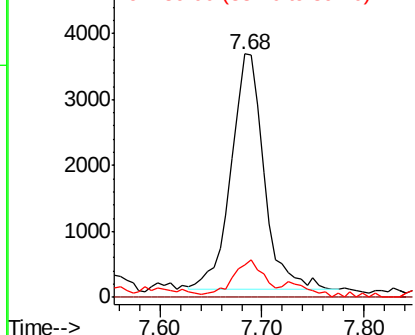
#48
Methyl methacrylate
Concen: 2.410 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.10 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

Tot Ion: 41 Resp: 7988
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 13.1 42.7 64.1#

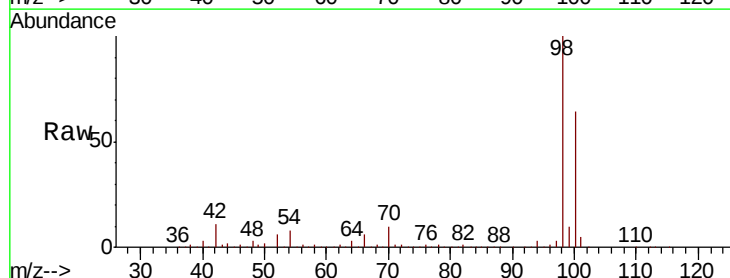


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

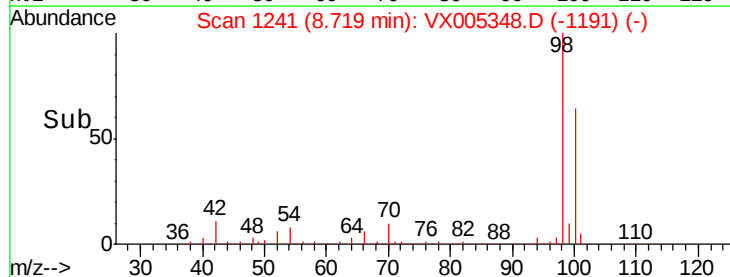
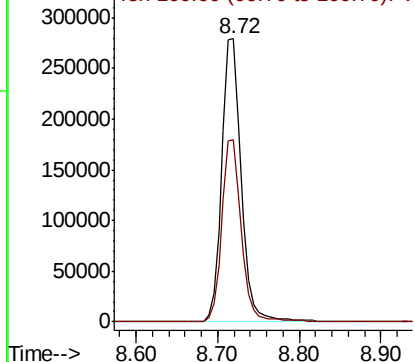


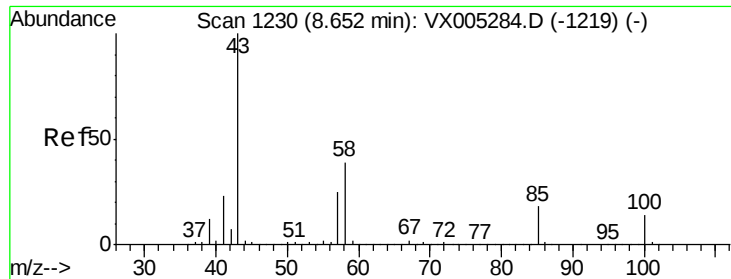
#50
Toluene-d8
Concen: 53.252 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion: 98 Resp: 466388
Ion Ratio Lower Upper
98 100
100 64.0 52.9 79.3



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





#51

4-Methyl-2-Pentanone

Concen: 0.520 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.04 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

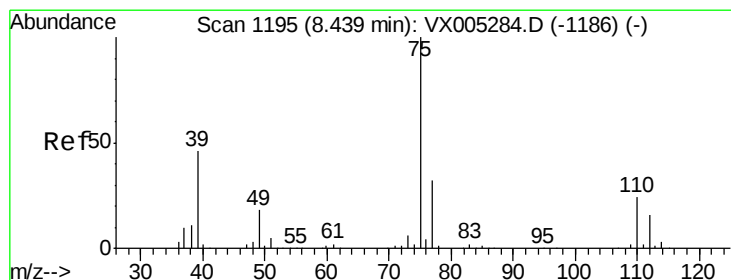
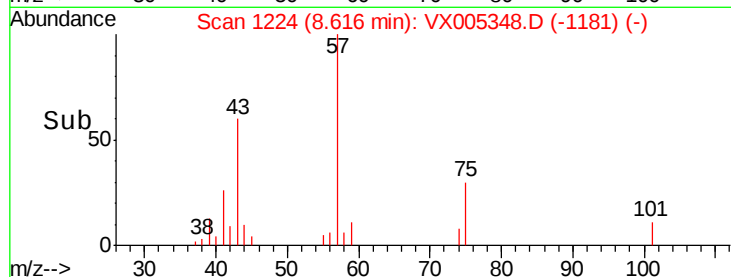
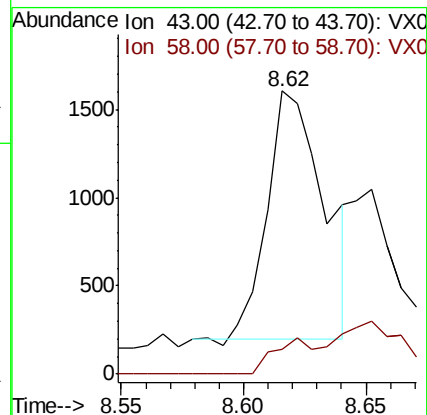
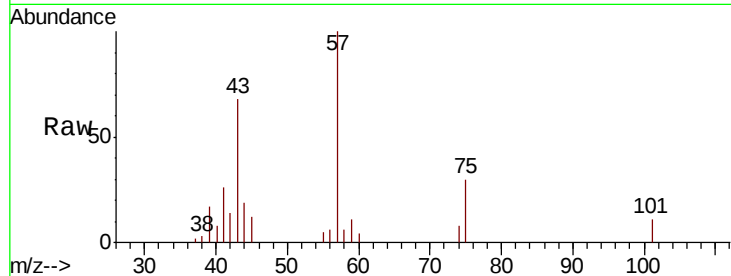
PB113825ZHE#04

Tot Ion: 43 Resp: 2299

Ion Ratio Lower Upper

43 100

58 9.7 33.1 49.7#



#54

cis-1,3-Dichloropropene

Concen: 0.294 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

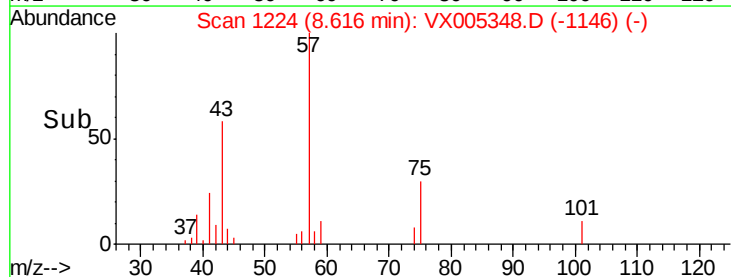
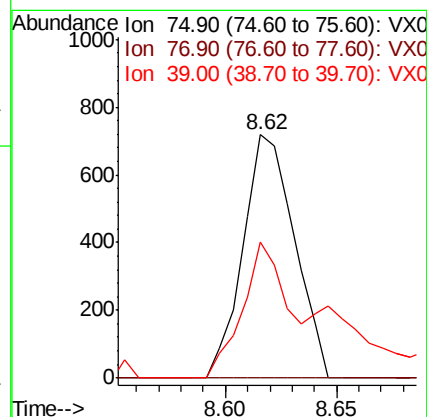
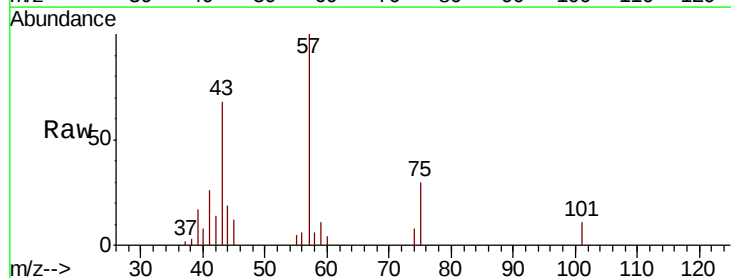
Tgt Ion: 75 Resp: 1157

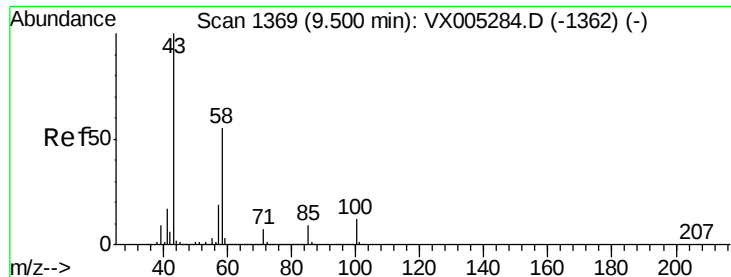
Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

39 55.8 36.4 54.6#

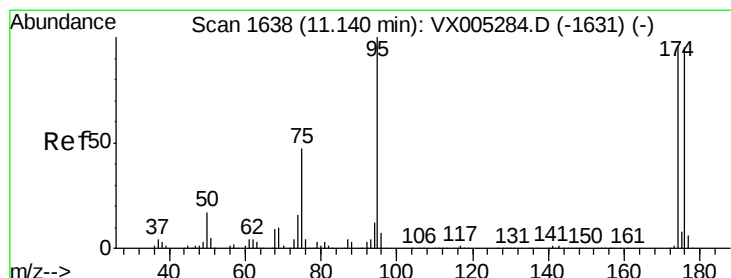
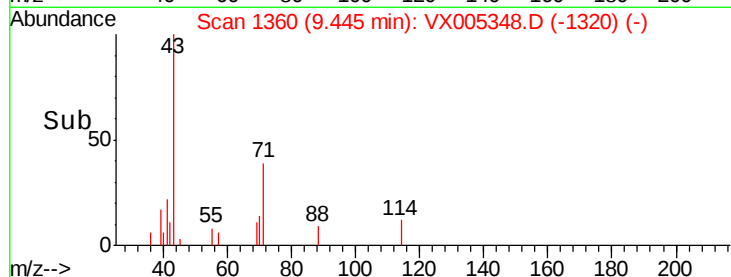
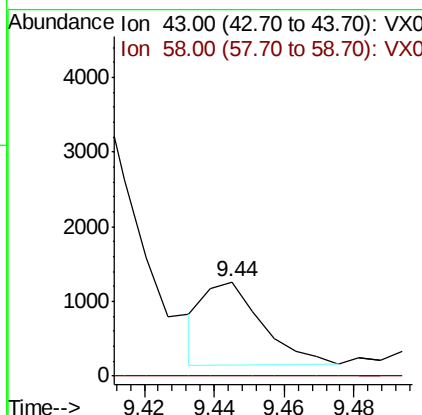
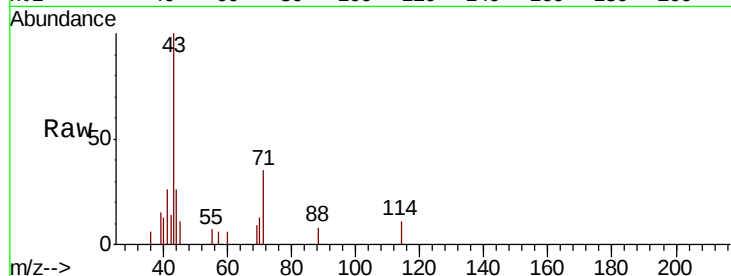




#59
2-Hexanone
Concen: 0.354 ug/l
RT: 9.44 min Scan# 1360
Delta R.T. -0.05 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

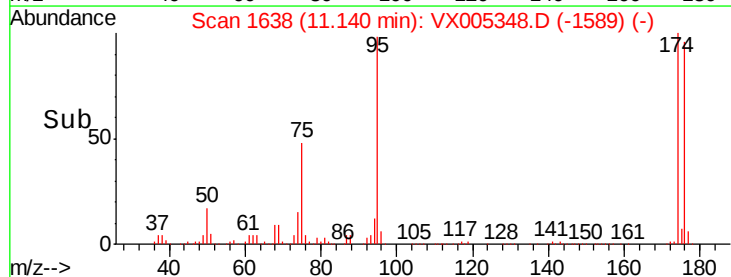
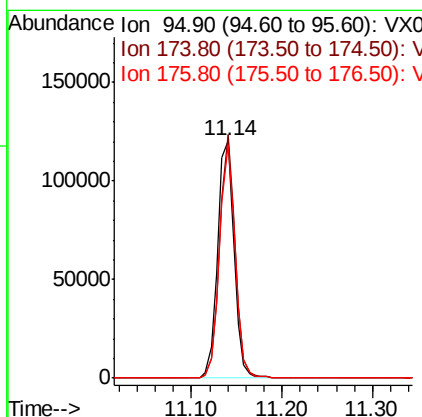
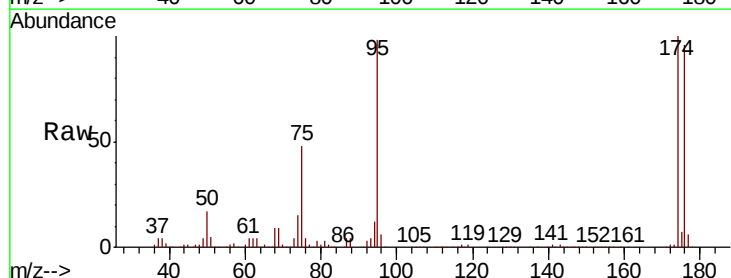
Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

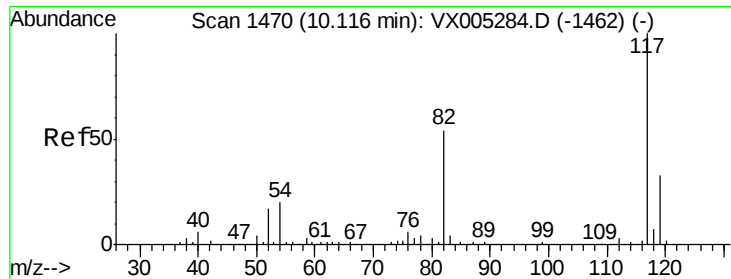
Tot Ion: 43 Resp: 1261
Ion Ratio Lower Upper
43 100
58 0.0 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 46.600 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion: 95 Resp: 153318
Ion Ratio Lower Upper
95 100
174 96.5 0.0 185.2
176 93.5 0.0 178.6

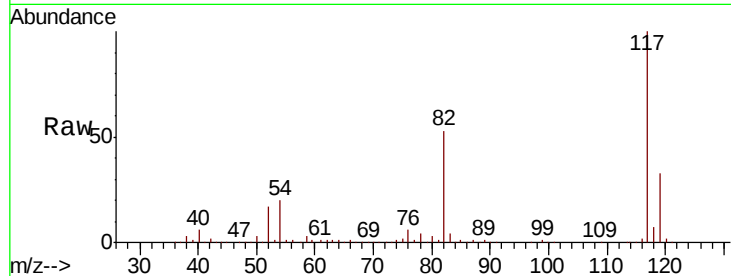




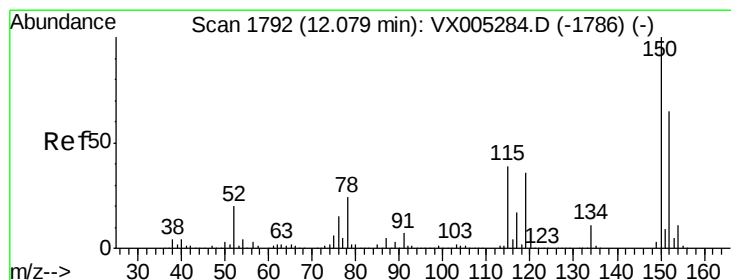
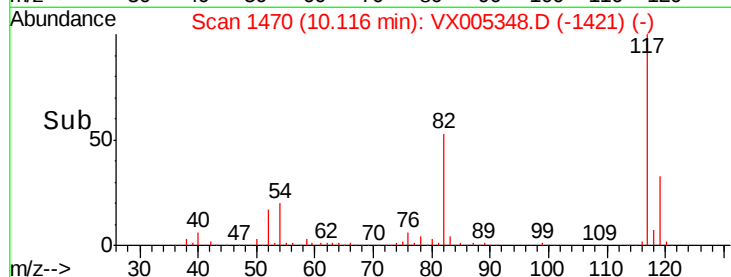
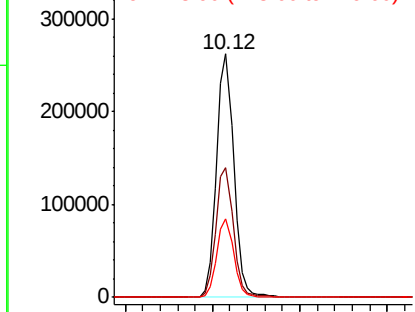
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Instrument :
MSVOA_X
ClientSampleId :
PB113825ZHE#04

Tot Ion:117 Resp: 359656
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 32.5 29.3 43.9

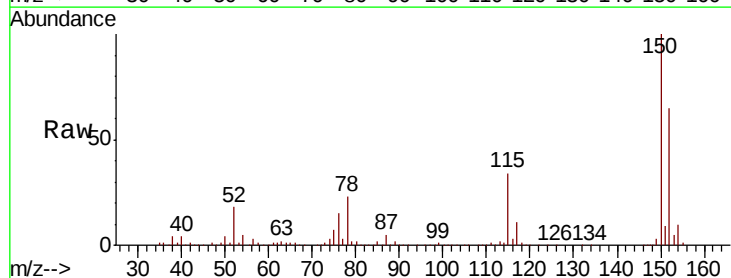


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

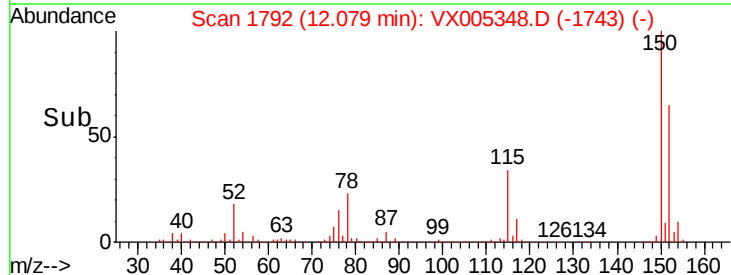
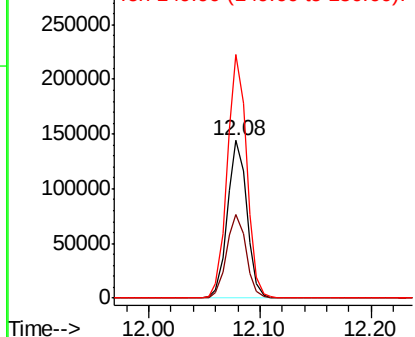


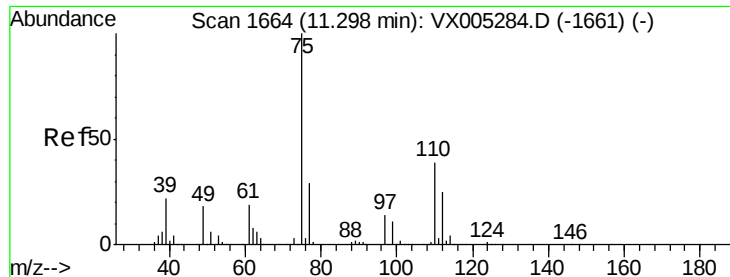
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005348.D
Acq: 15 Oct 2018 17:15

Tgt Ion:152 Resp: 173107
Ion Ratio Lower Upper
152 100
115 53.5 39.0 117.0
150 155.0 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

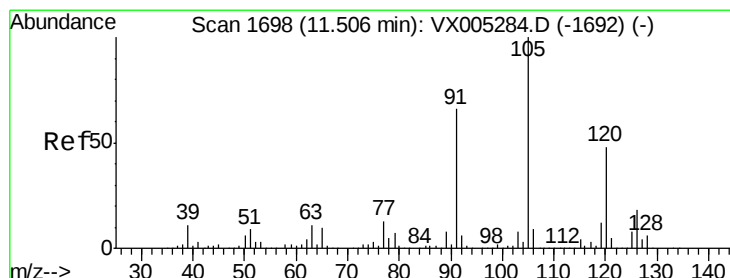
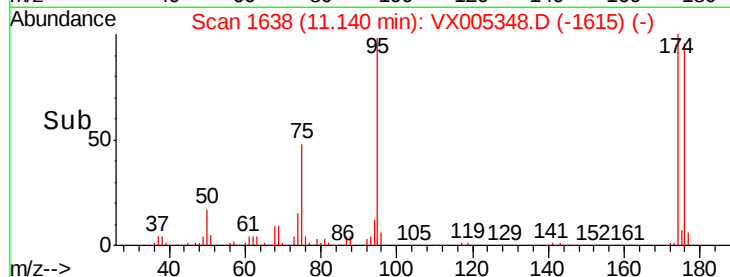
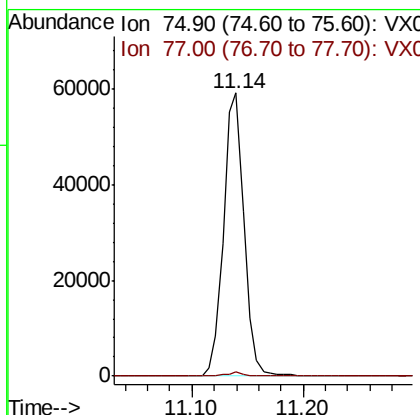
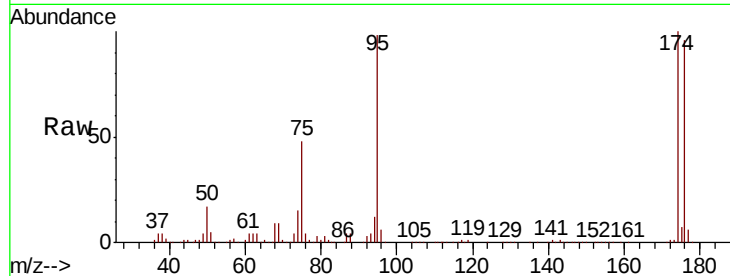




#76
 1,2,3-Trichloropropane
 Concen: 22.367 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005348.D
 Acq: 15 Oct 2018 17:15

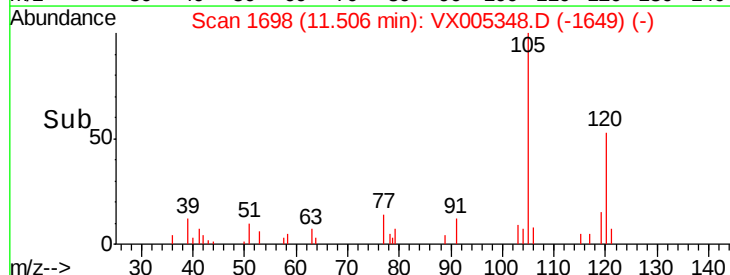
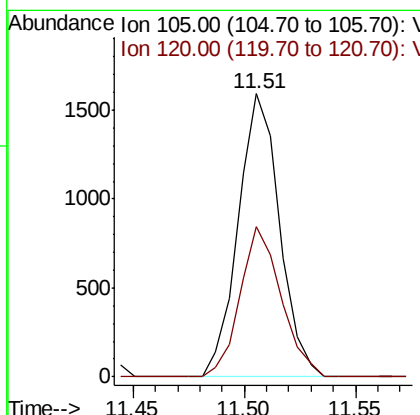
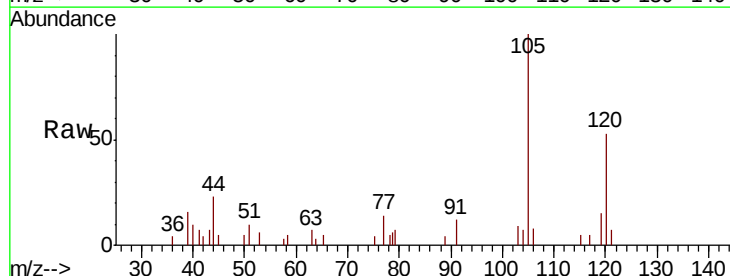
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113825ZHE#04

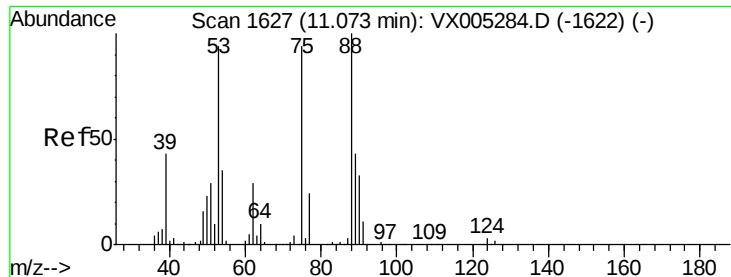
Tot Ion: 75 Resp: 75103
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.234 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005348.D
 Acq: 15 Oct 2018 17:15

Tgt Ion: 105 Resp: 2060
 Ion Ratio Lower Upper
 105 100
 120 52.9 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 67.961 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005348.D

Acq: 15 Oct 2018 17:15

Instrument :

MSVOA_X

ClientSampleId :

PB113825ZHE#04

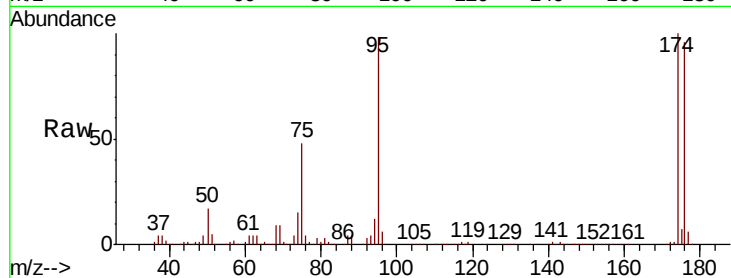
Tot Ion: 75 Resp: 75103

Ion Ratio Lower Upper

75 100

53 0.3 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

