

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002813.D
 Acq On : 22 Jun 2018 03:07
 Operator : JC/MD
 Sample : PB110441ZHE#16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#16

Quant Time: Jun 22 05:22:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235490	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	334371	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	182896	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	165558	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
35) Dibromofluoromethane	5.51	113	129044	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	8.72	98	482131	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
62) 4-Bromofluorobenzene	11.14	95	169603	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

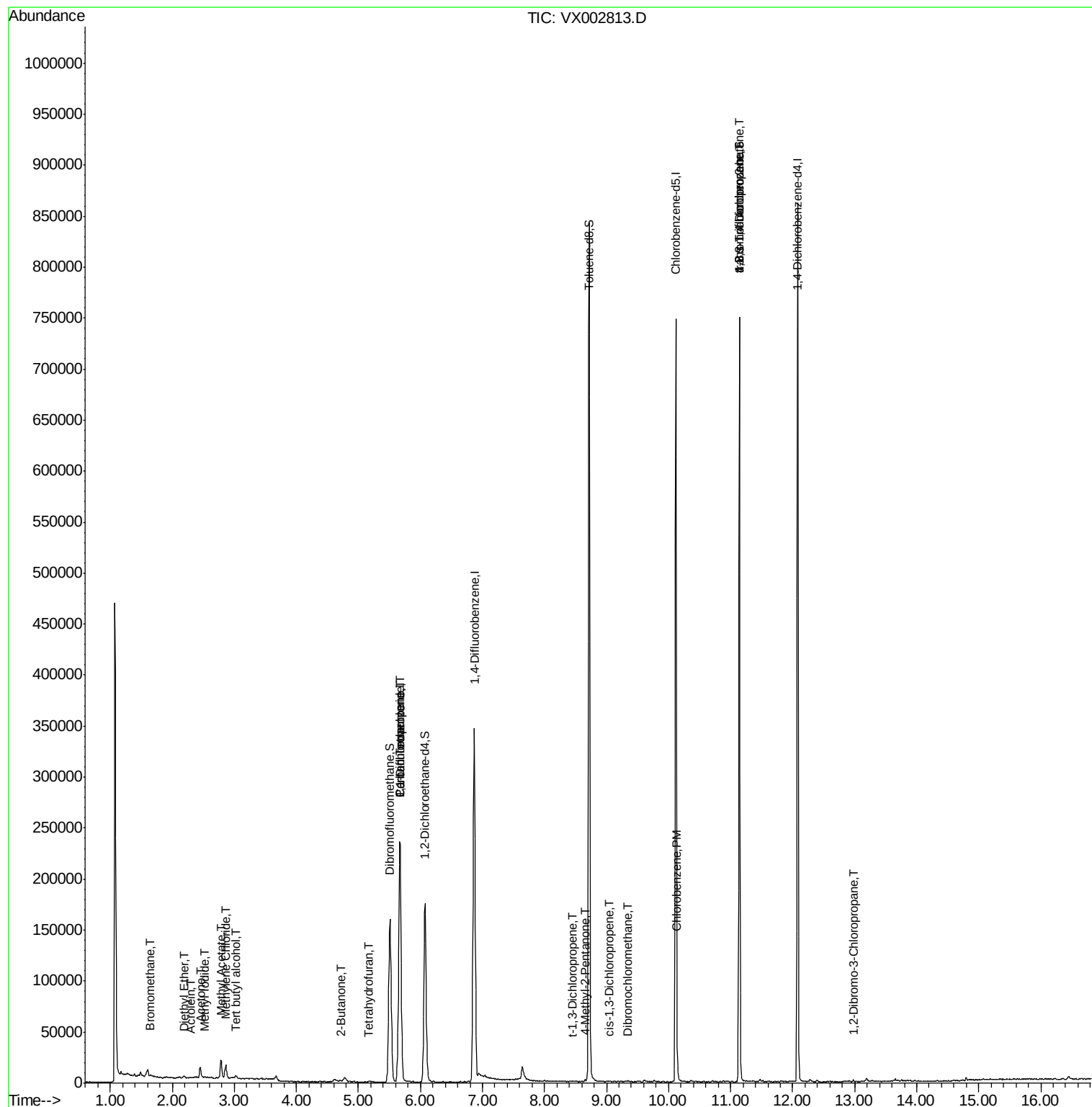
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1284	0.69	ug/l	81
8) Diethyl Ether	2.20	74	570	0.30	ug/l	76
10) Methyl Iodide	2.52	142	1259	5.48	ug/l	97
11) Tert butyl alcohol	3.03	59	1801	2.43	ug/l #	88
13) Acrolein	2.29	56	209	7.45	ug/l #	1
16) Acetone	2.45	43	13099	8.30	ug/l	92
18) Methyl Acetate	2.78	43	22083	5.25	ug/l	97
20) Methylene Chloride	2.86	84	6095	1.88	ug/l	96
25) 2-Butanone	4.71	43	2365	1.14	ug/l	95
29) Tetrahydrofuran	5.16	42	387	0.28	ug/l #	50
36) 1,1-Dichloropropene	5.67	75	16448	4.63	ug/l #	50
38) Carbon Tetrachloride	5.67	117	21999	6.22	ug/l #	15
51) 4-Methyl-2-Pentanone	8.65	43	1019	0.24	ug/l #	84
53) t-1,3-Dichloropropene	8.45	75	42	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	34	3.22	ug/l #	40
60) Dibromochloromethane	9.34	129	117	3.80	ug/l #	11
65) Chlorobenzene	10.14	112	3231	0.41	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	91340	26.47	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91340	81.78	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	373	0.49	ug/l #	1

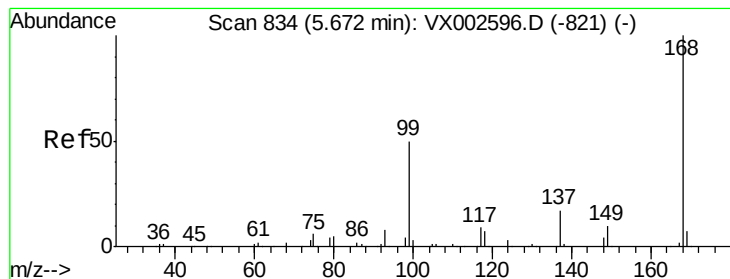
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 05:22:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

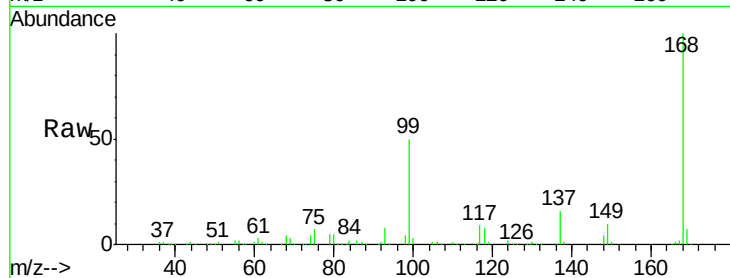
PB110441ZHE#16

Tot Ion:168 Resp: 235490

Ion Ratio Lower Upper

168 100

99 49.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

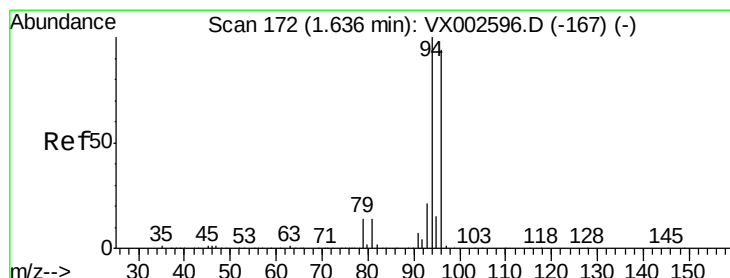
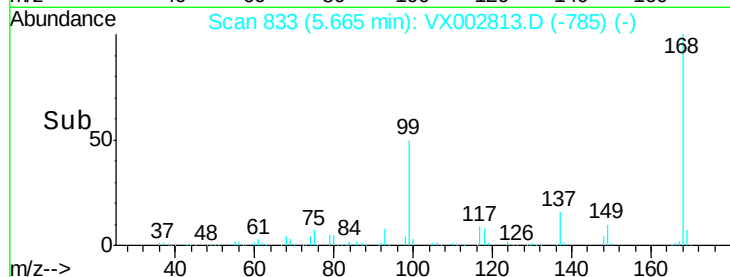
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.69 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002813.D

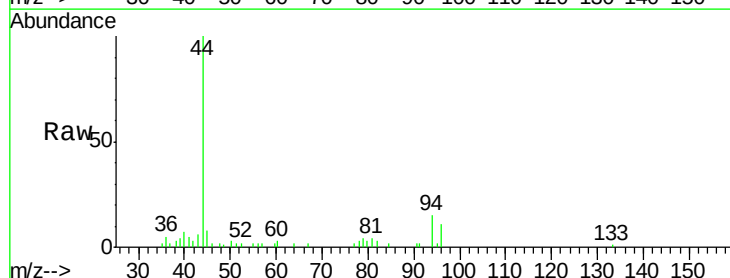
Acq: 22 Jun 2018 03:07

Tgt Ion: 94 Resp: 1284

Ion Ratio Lower Upper

94 100

96 75.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

300

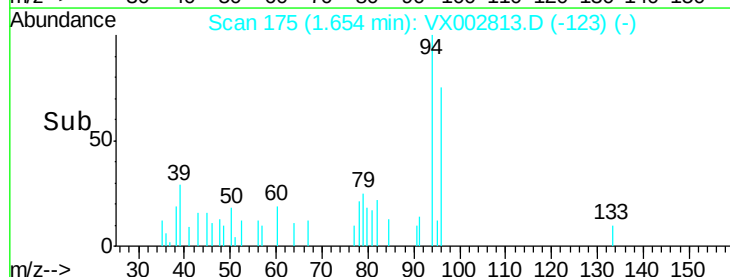
200

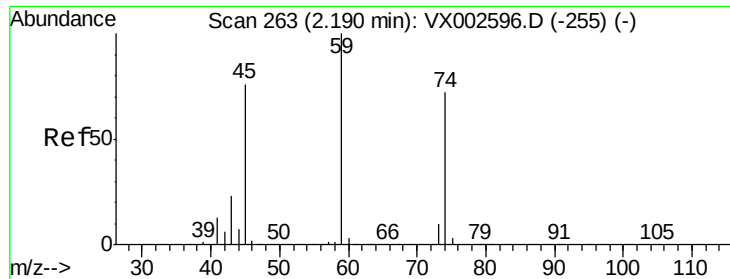
100

0

Time-->

1.60 1.65 1.70 1.75

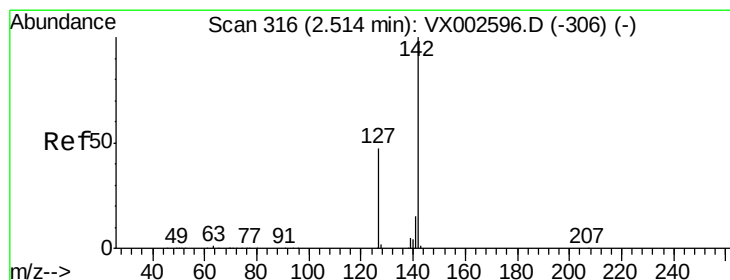
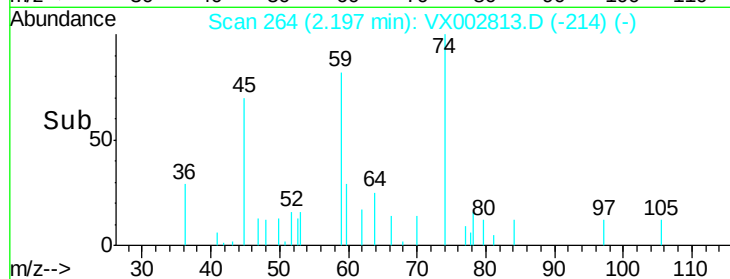
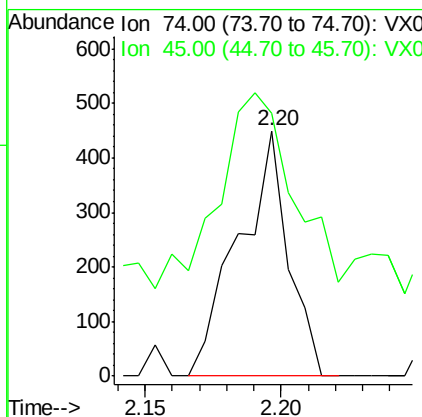
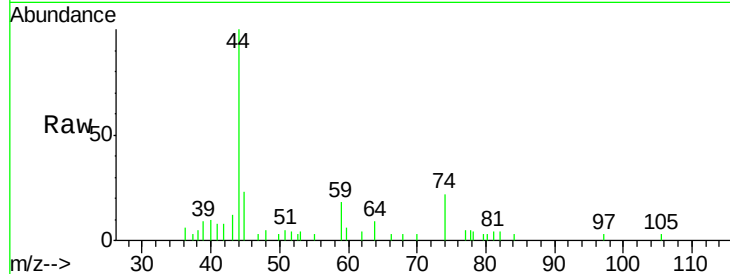




#8
 Diethyl Ether
 Concen: 0.30 ug/l
 RT: 2.20 min Scan# 264
 Delta R.T. 0.01 min
 Lab File: VX002813.D
 Acq: 22 Jun 2018 03:07

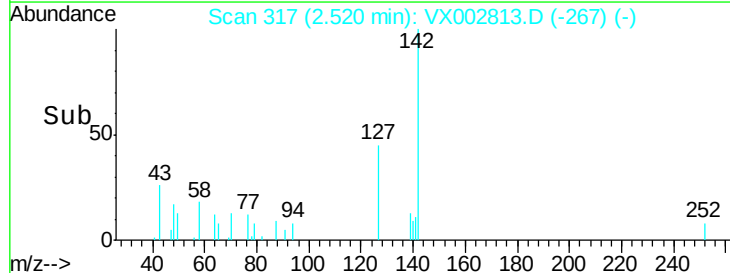
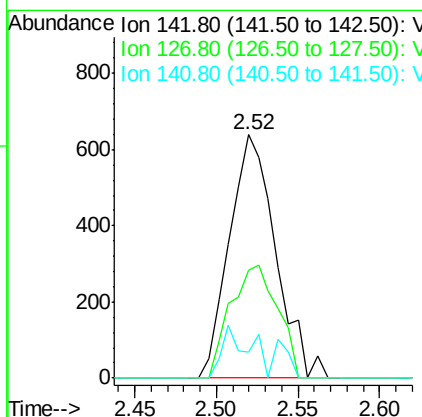
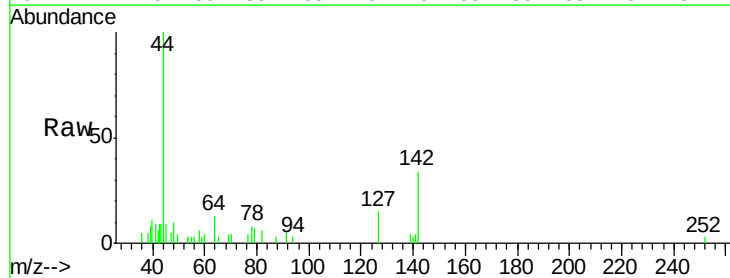
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#16

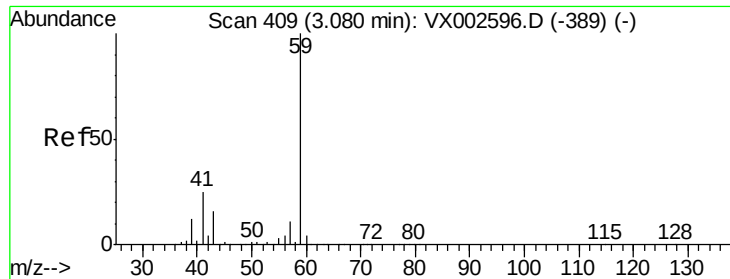
Tot Ion: 74 Resp: 570
 Ion Ratio Lower Upper
 74 100
 45 130.9 53.1 159.4



#10
 Methyl Iodide
 Concen: 5.48 ug/l
 RT: 2.52 min Scan# 317
 Delta R.T. 0.01 min
 Lab File: VX002813.D
 Acq: 22 Jun 2018 03:07

Tgt Ion: 142 Resp: 1259
 Ion Ratio Lower Upper
 142 100
 127 47.6 36.6 55.0
 141 12.9 11.3 16.9

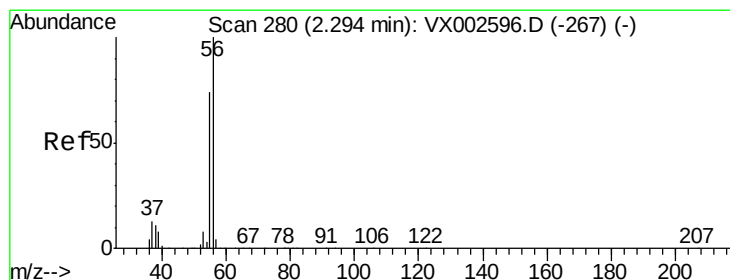
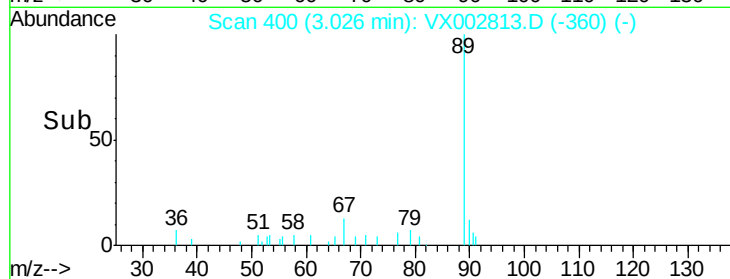
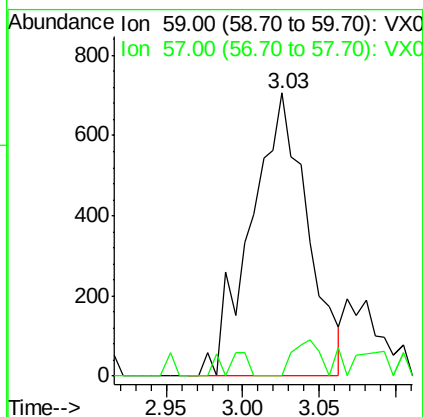
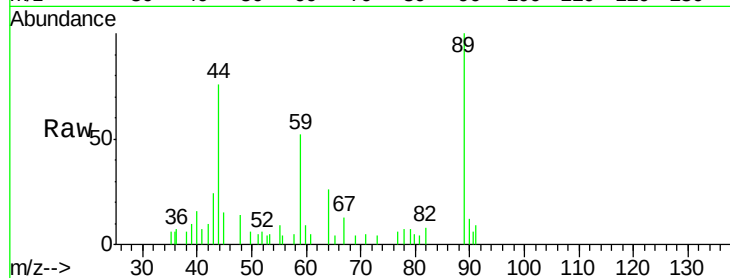




#11
Tert butyl alcohol
Concen: 2.43 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

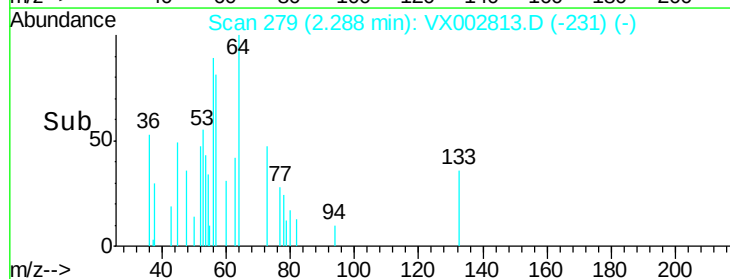
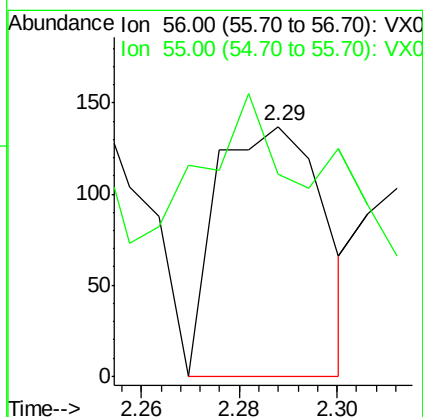
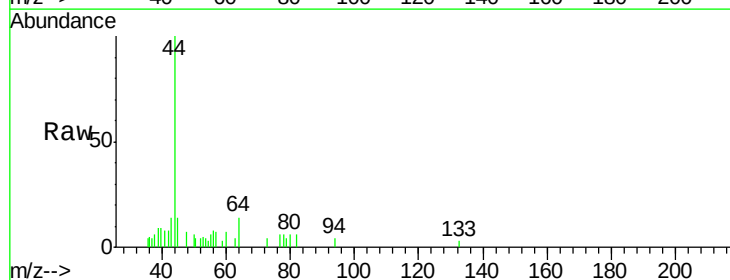
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#16

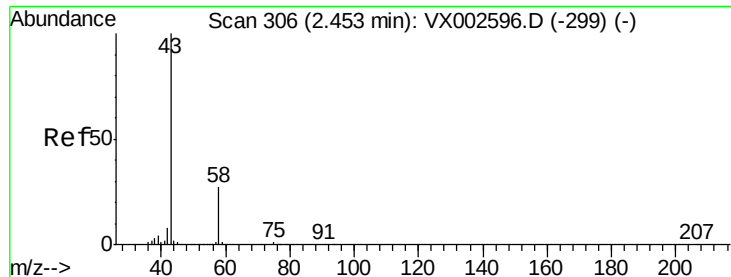
Tot Ion: 59 Resp: 1801
Ion Ratio Lower Upper
59 100
57 5.8 8.2 12.2#



#13
Acrolein
Concen: 7.45 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Tgt Ion: 56 Resp: 209
Ion Ratio Lower Upper
56 100
55 206.2 57.0 85.4#





#16

Acetone

Concen: 8.30 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

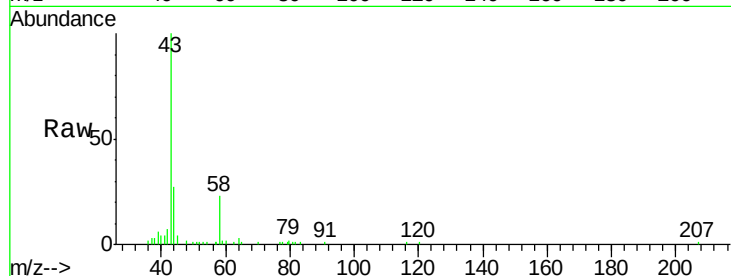
PB110441ZHE#16

Tot Ion: 43 Resp: 13099

Ion Ratio Lower Upper

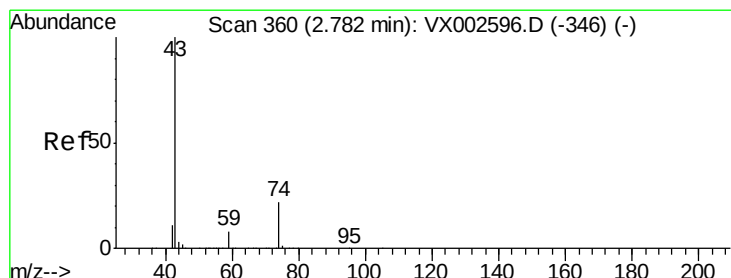
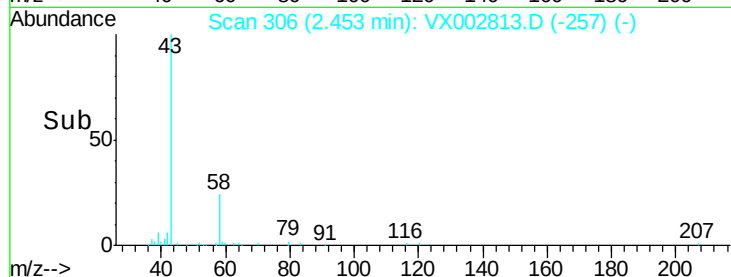
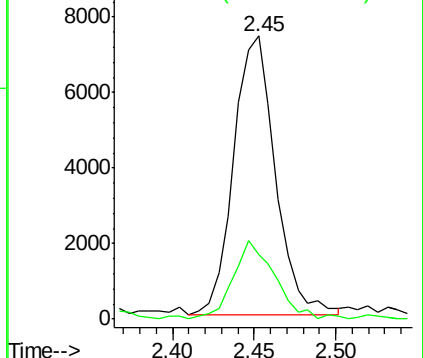
43 100

58 23.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 5.25 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002813.D

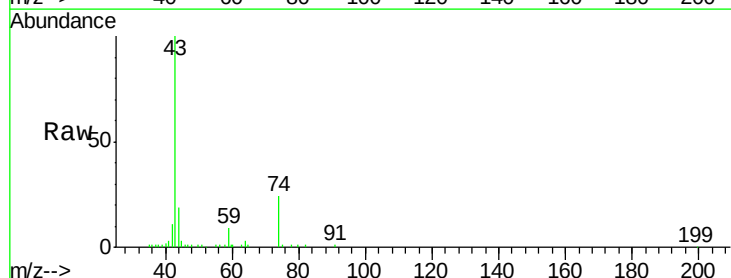
Acq: 22 Jun 2018 03:07

Tgt Ion: 43 Resp: 22083

Ion Ratio Lower Upper

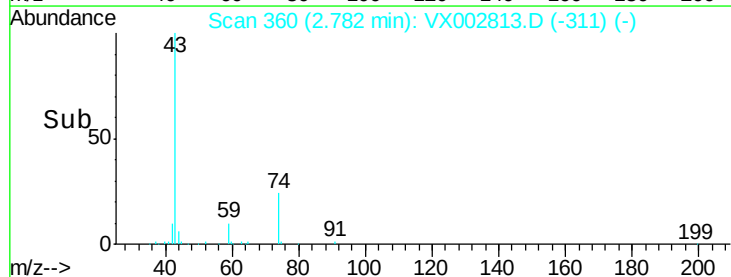
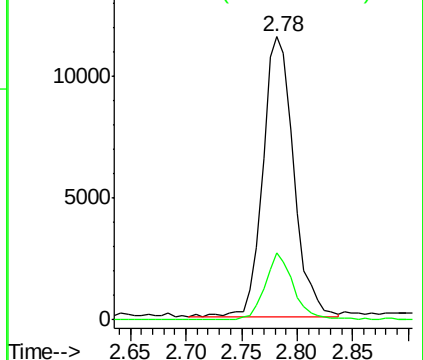
43 100

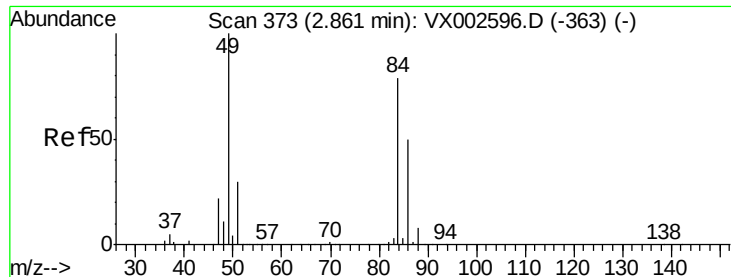
74 22.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 1.88 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#16

Tot Ion: 84 Resp: 6095

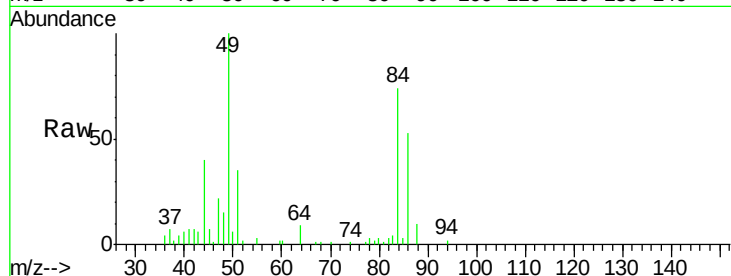
Ion Ratio Lower Upper

84 100

49 135.1 107.8 161.6

51 45.9 32.8 49.2

86 71.8 52.5 78.7

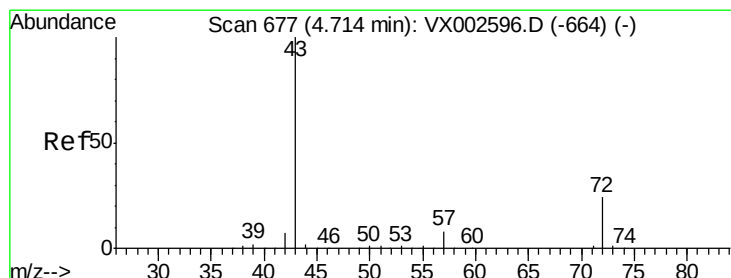
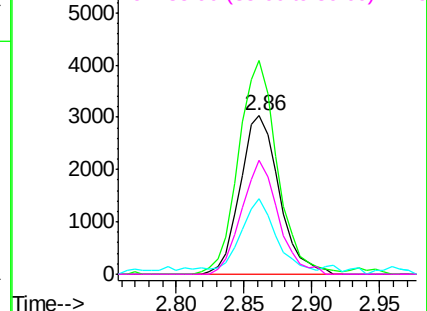
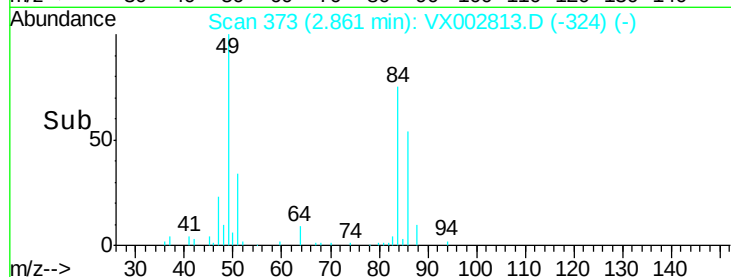


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.14 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002813.D

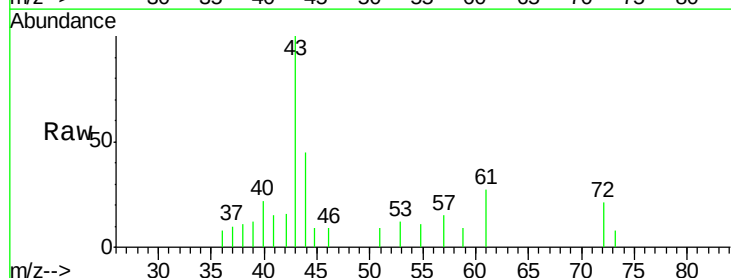
Acq: 22 Jun 2018 03:07

Tgt Ion: 43 Resp: 2365

Ion Ratio Lower Upper

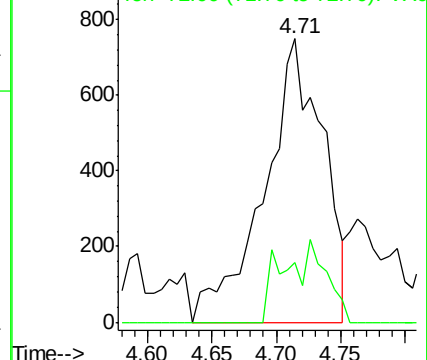
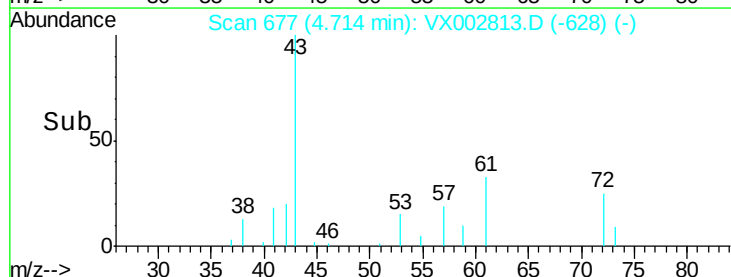
43 100

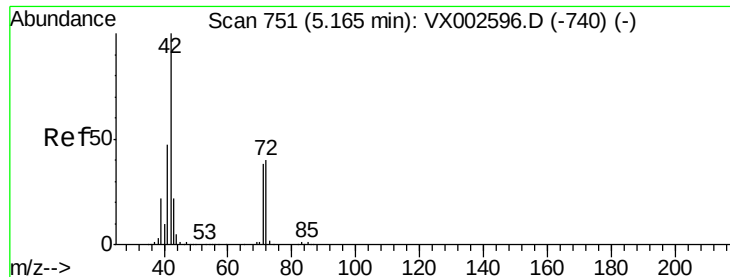
72 20.8 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

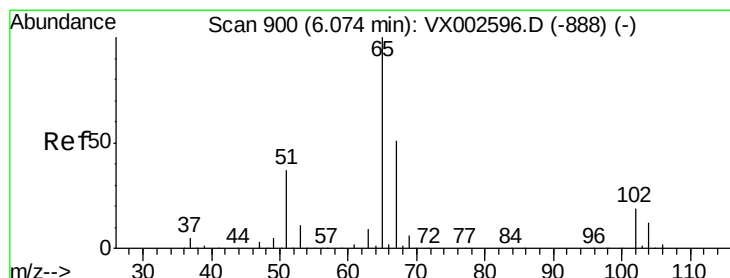
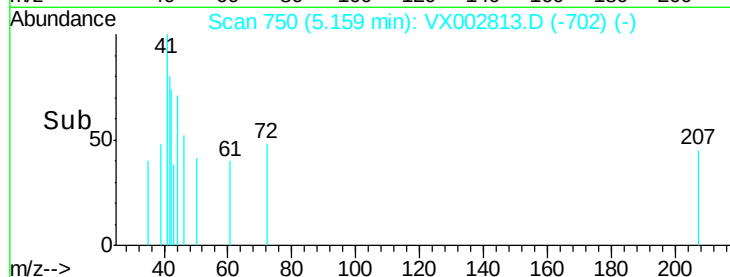
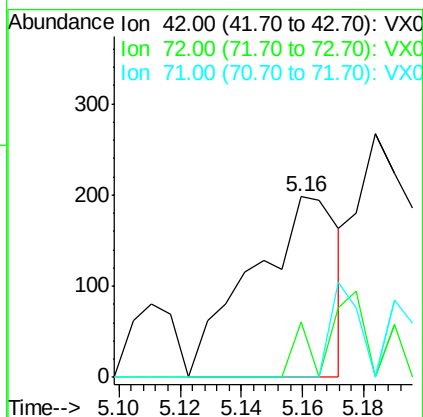
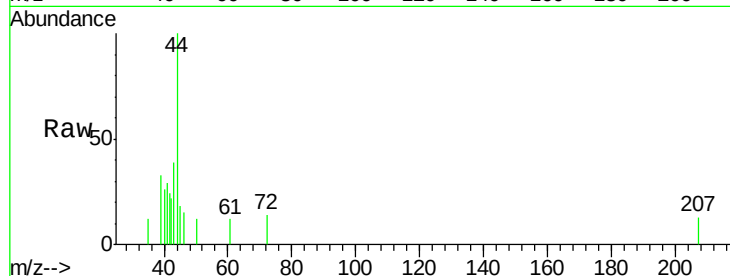




#29
Tetrahydrofuran
Concen: 0.28 ug/l
RT: 5.16 min Scan# 750
Delta R.T. -0.01 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

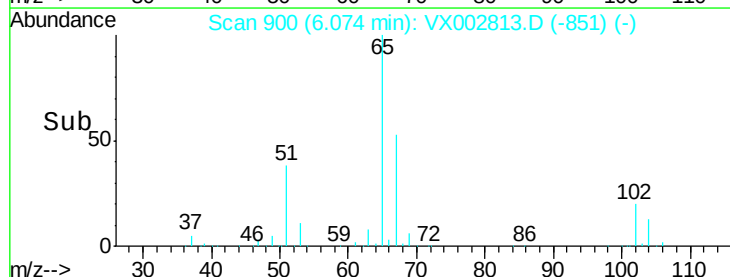
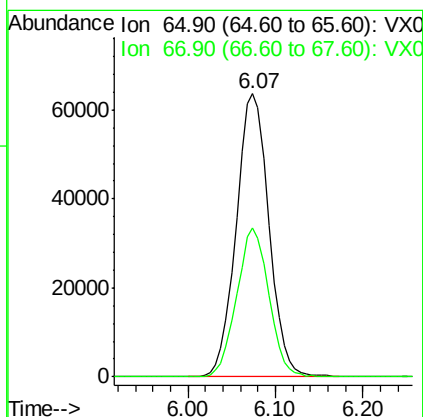
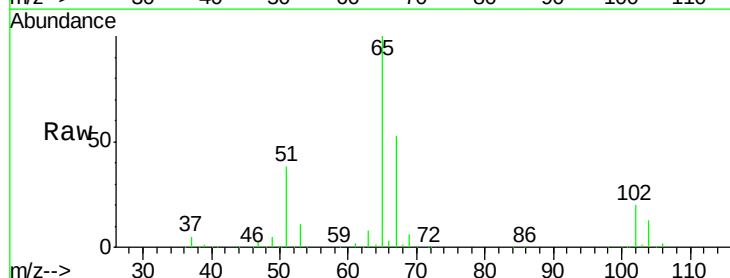
Instrument :
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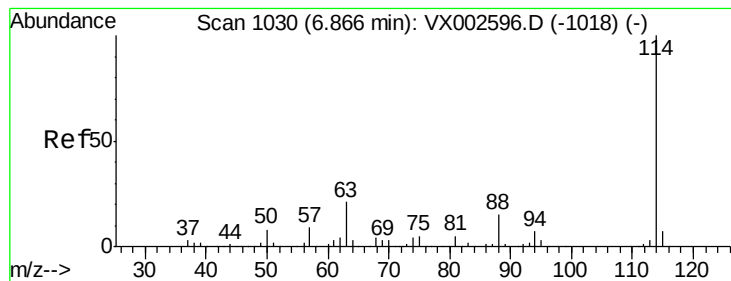
Tot Ion: 42 Resp: 387
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 17.1 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 46.26 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Tgt Ion: 65 Resp: 165558
Ion Ratio Lower Upper
65 100
67 51.9 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#16

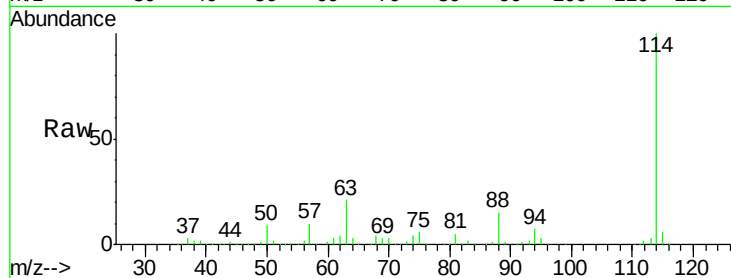
Tot Ion:114 Resp: 334371

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

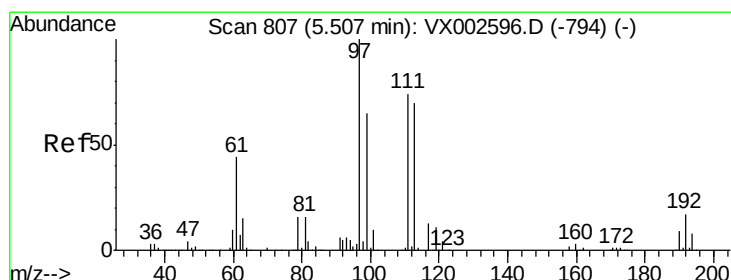
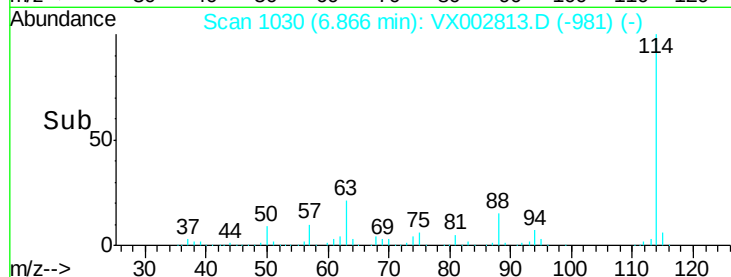
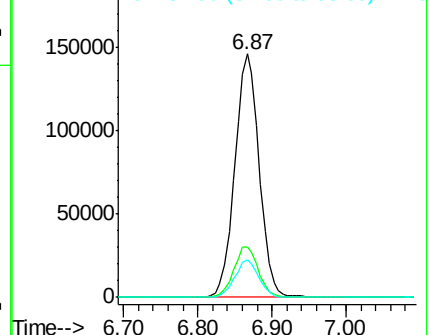
88 15.4 0.0 30.0



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: 48.36 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

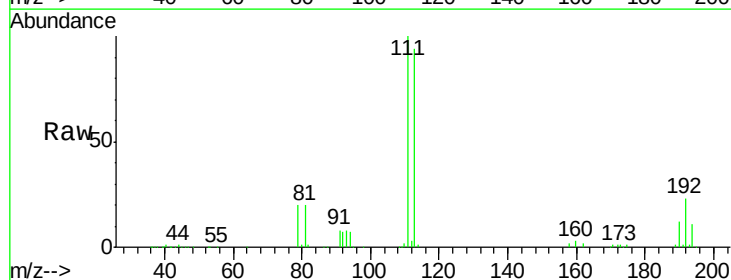
Tgt Ion:113 Resp: 129044

Ion Ratio Lower Upper

113 100

111 103.7 81.4 122.0

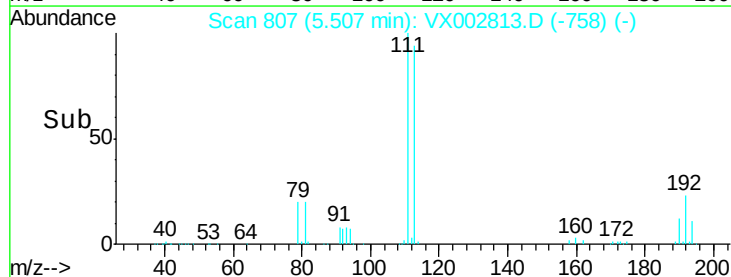
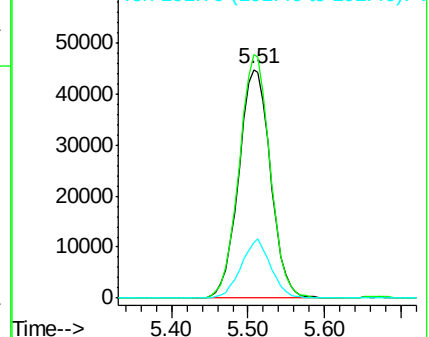
192 24.1 19.1 28.7

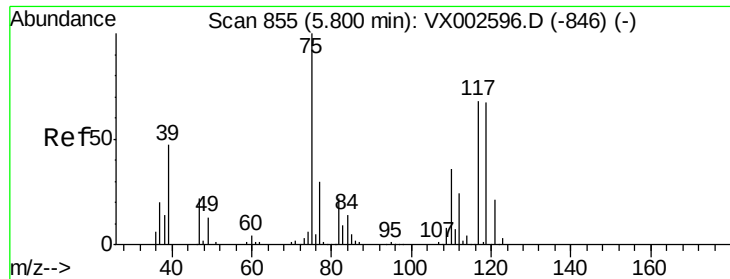


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.63 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#16

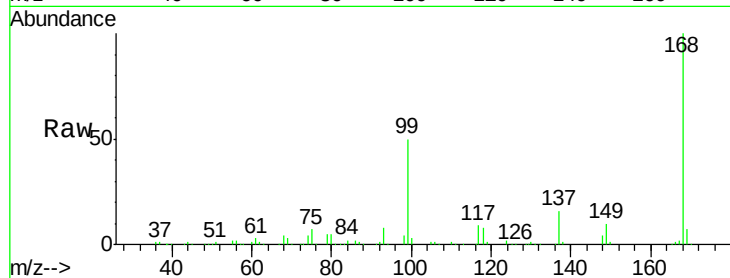
Tot Ion: 75 Resp: 16448

Ion Ratio Lower Upper

75 100

110 9.4 18.1 54.4#

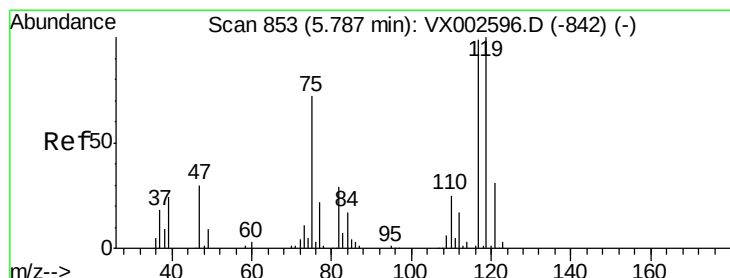
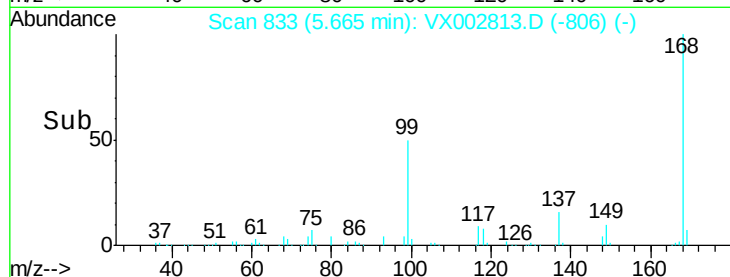
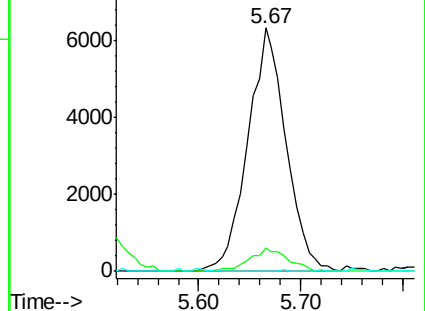
77 0.1 24.3 36.5#



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: 6.22 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

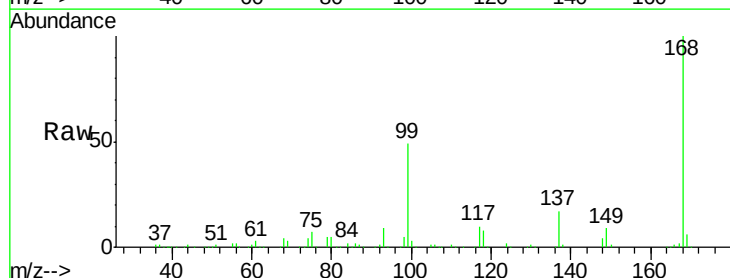
Tgt Ion:117 Resp: 21999

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

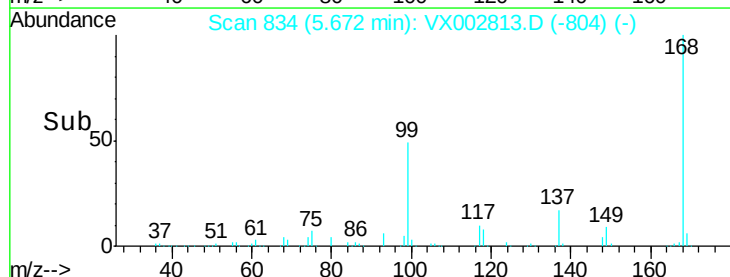
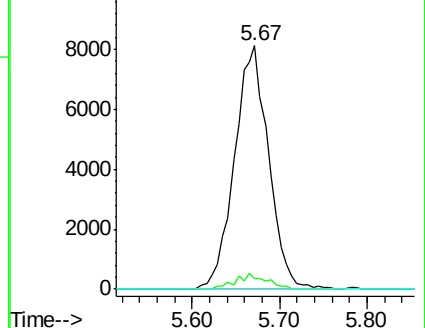
121 0.0 24.4 36.6#

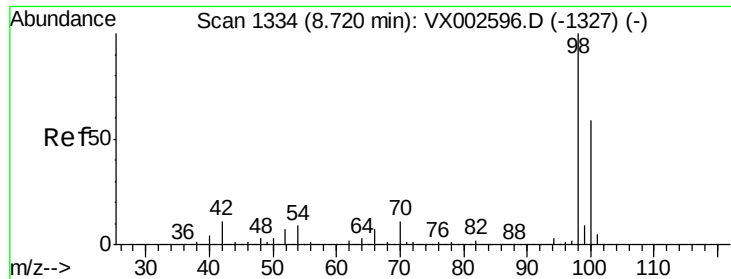


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

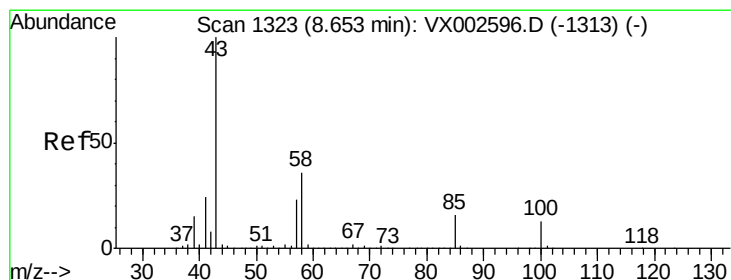
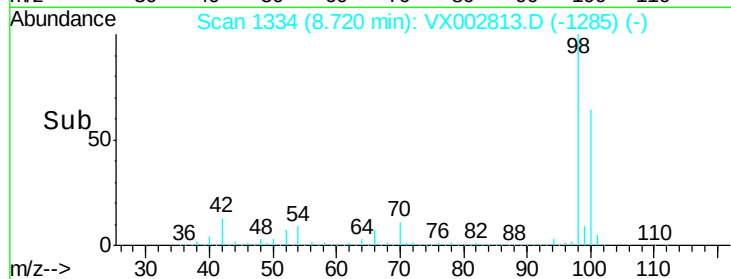
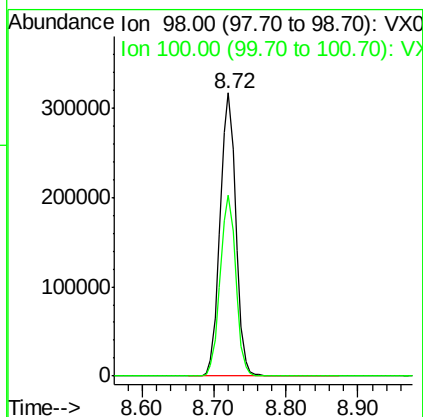
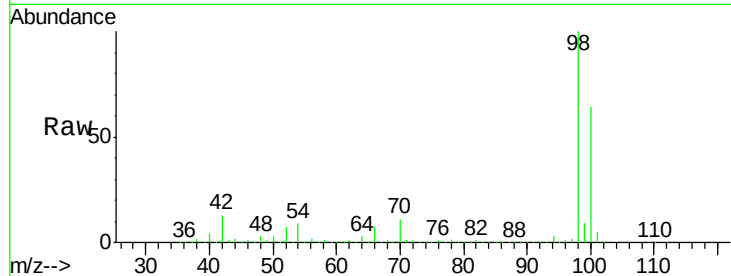




#50
Toluene-d8
Concen: 47.58 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

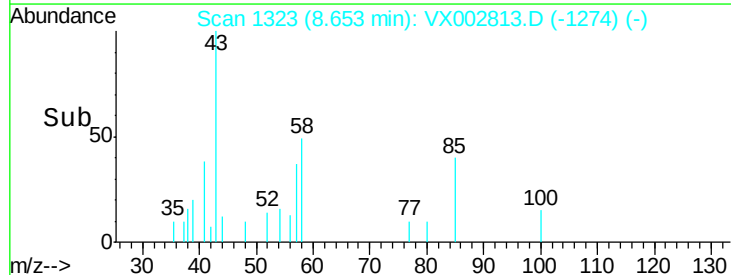
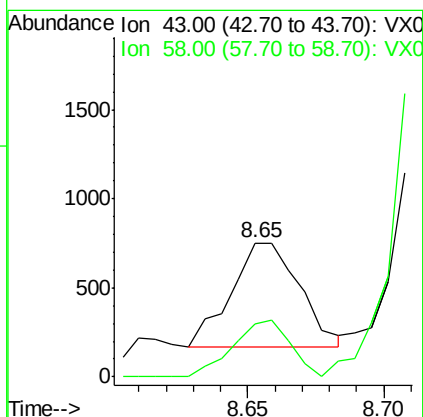
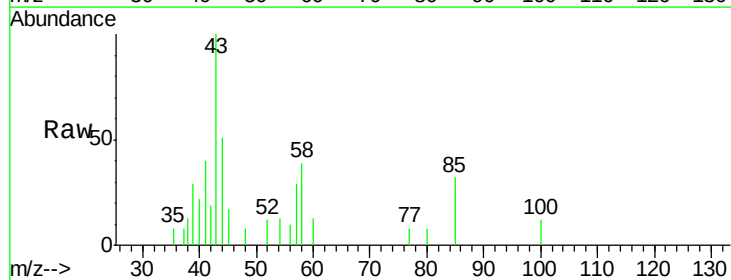
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#16

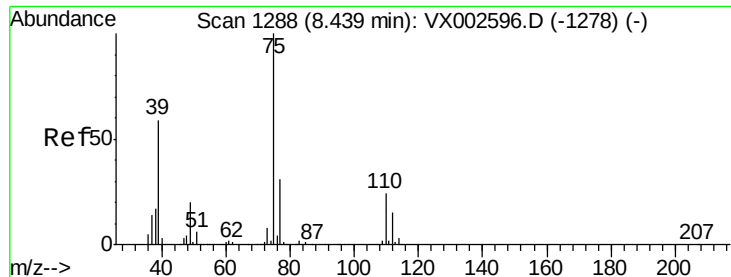
Tot Ion: 98 Resp: 482131
Ion Ratio Lower Upper
98 100
100 63.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.24 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Tgt Ion: 43 Resp: 1019
Ion Ratio Lower Upper
43 100
58 45.1 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.45 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

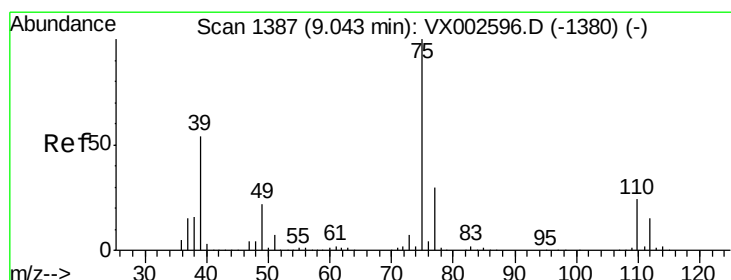
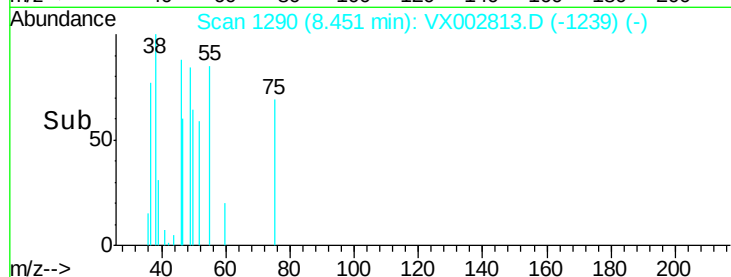
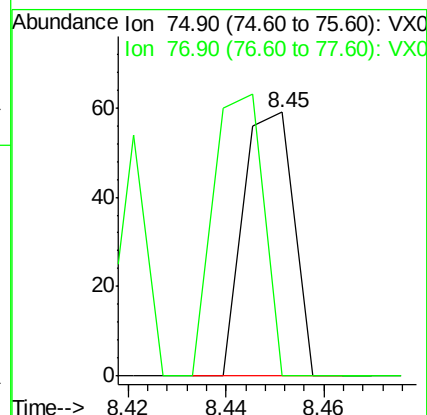
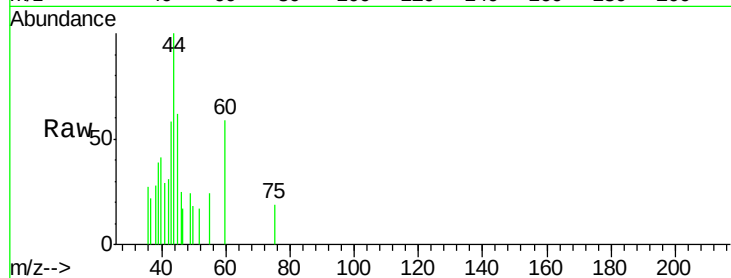
PB110441ZHE#16

Tot Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

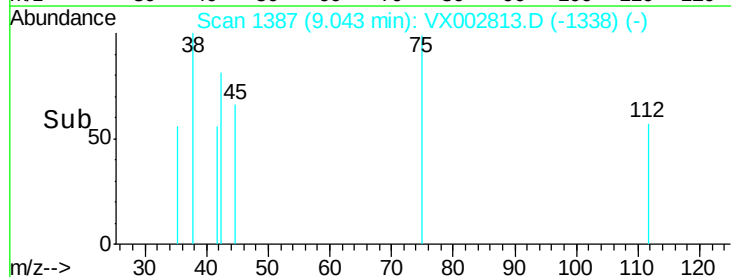
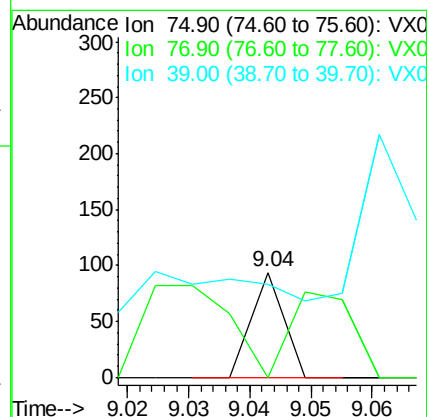
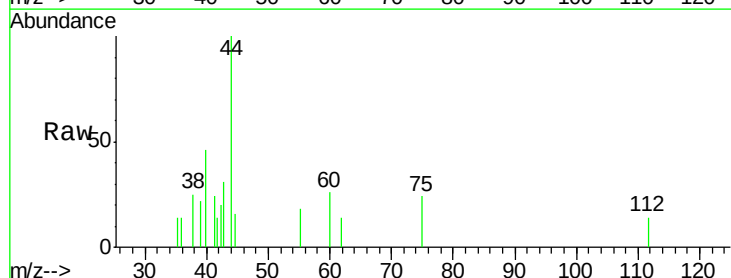
Tgt Ion: 75 Resp: 34

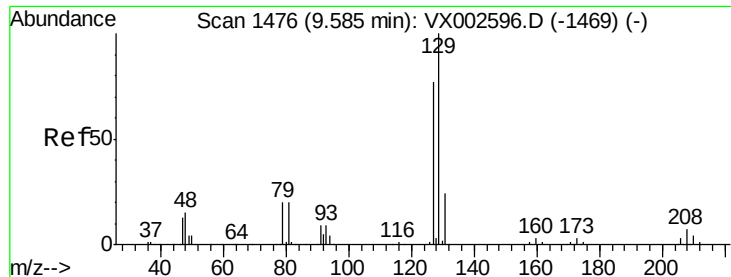
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 8.5 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.80 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

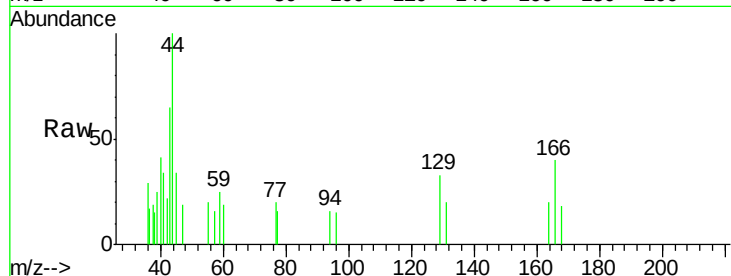
PB110441ZHE#16

Tot Ion:129 Resp: 117

Ion Ratio Lower Upper

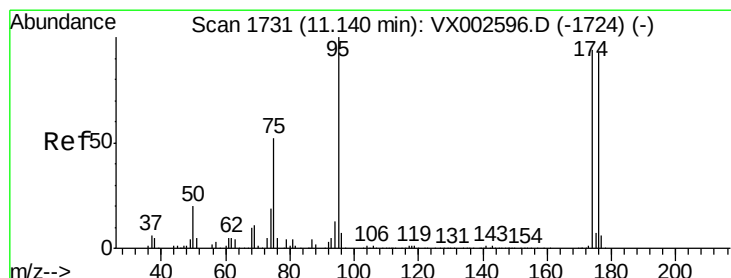
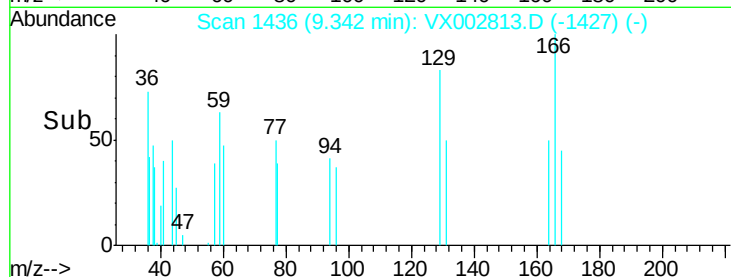
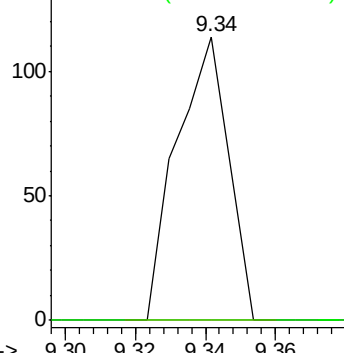
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

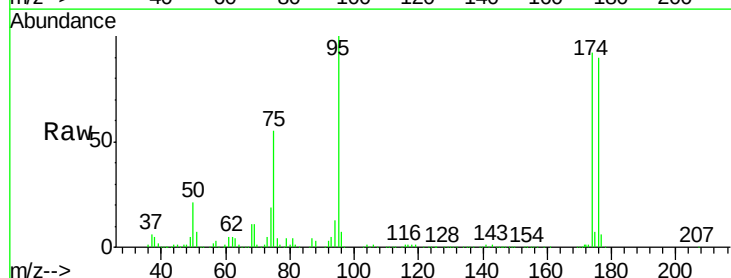
Tgt Ion: 95 Resp: 169603

Ion Ratio Lower Upper

95 100

174 96.8 0.0 187.4

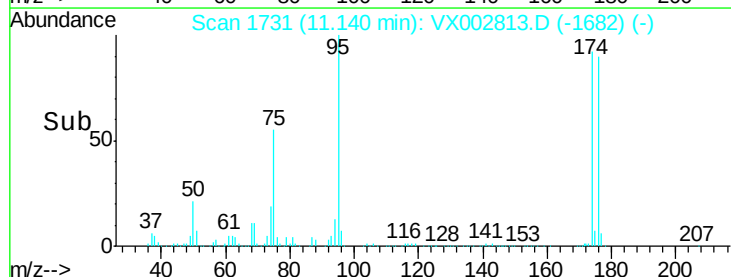
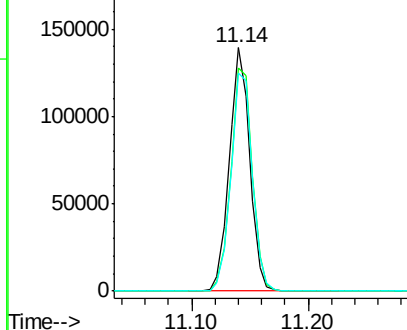
176 94.5 0.0 181.0

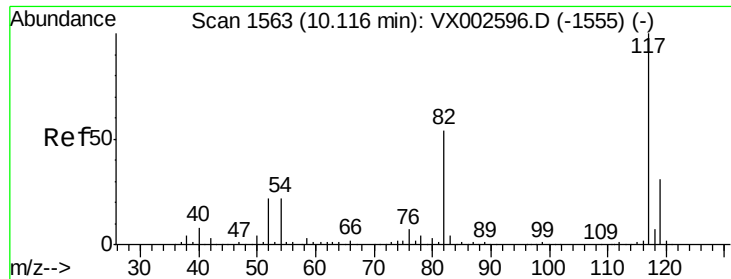


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

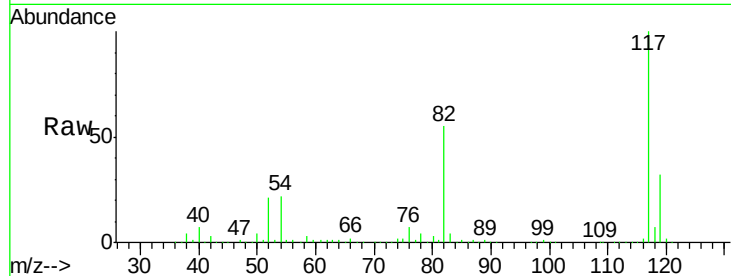




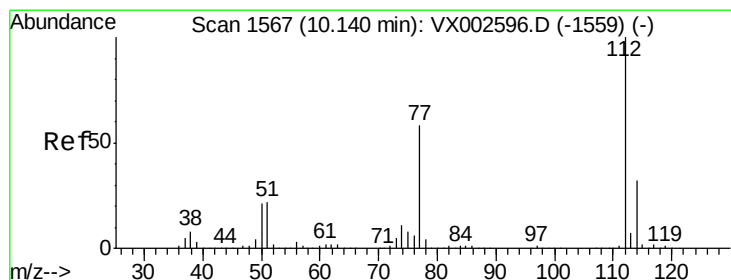
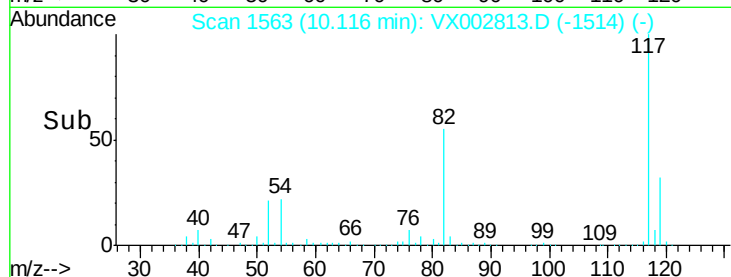
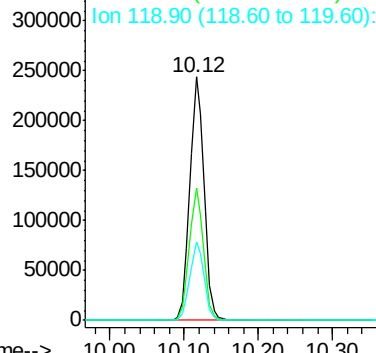
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#16

Tot Ion:117 Resp: 319914
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.2 25.8 38.6

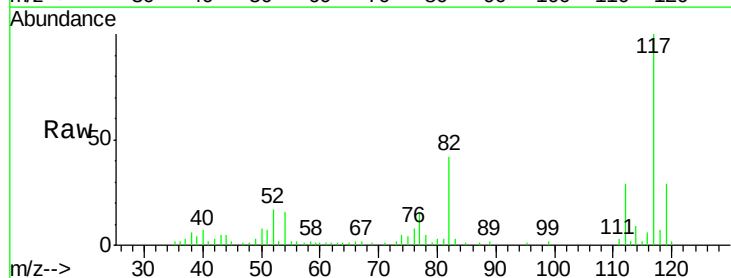


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

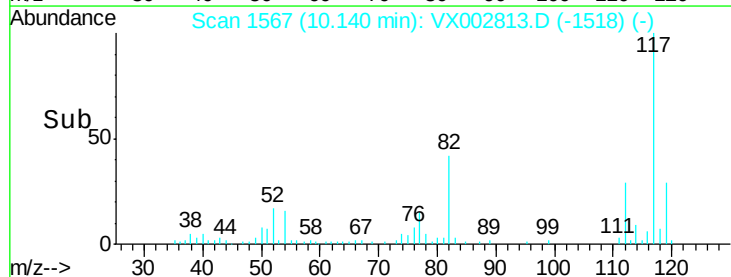
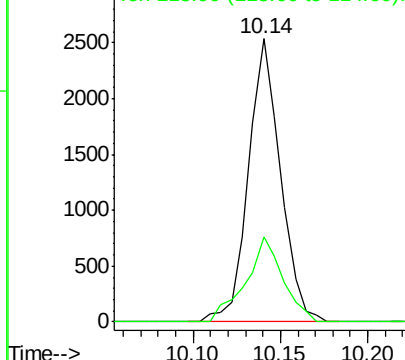


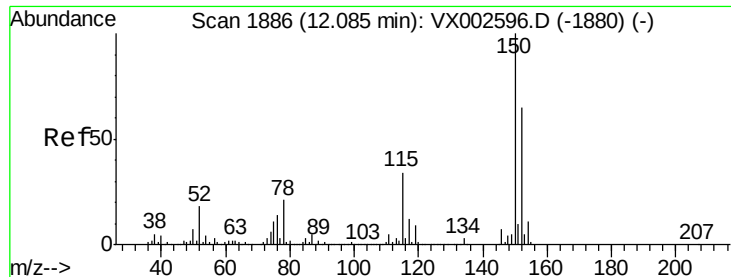
#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Tgt Ion:112 Resp: 3231
Ion Ratio Lower Upper
112 100
114 30.1 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002813.D

Acq: 22 Jun 2018 03:07

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#16

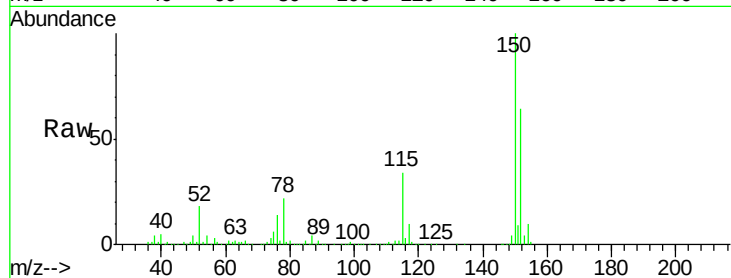
Tot Ion:152 Resp: 182896

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

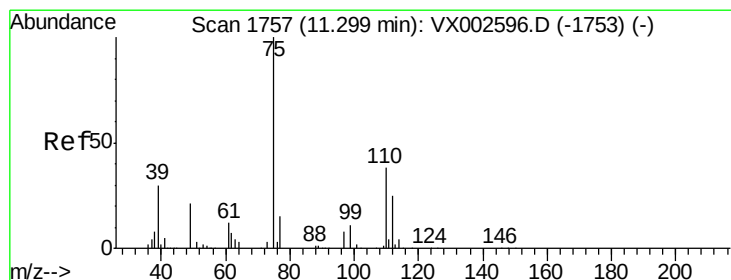
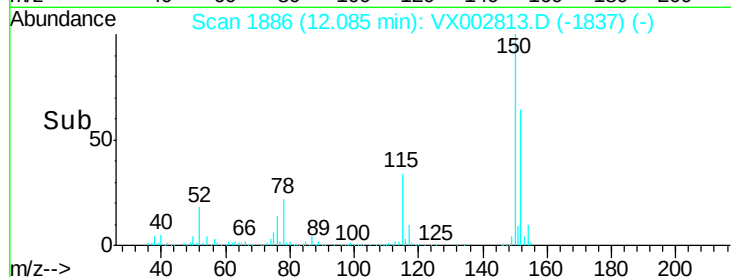
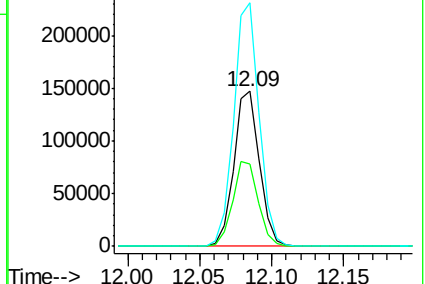
150 155.9 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002813.D

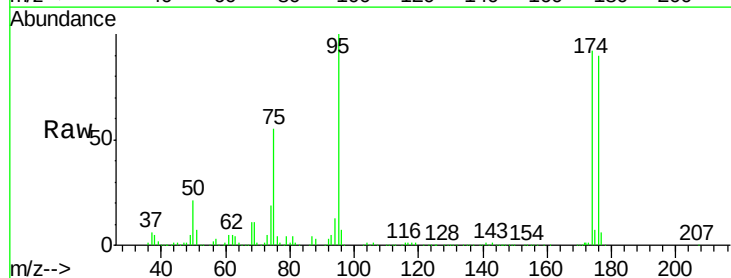
Acq: 22 Jun 2018 03:07

Tgt Ion: 75 Resp: 91340

Ion Ratio Lower Upper

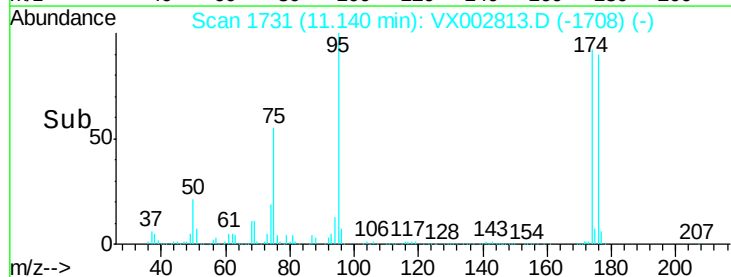
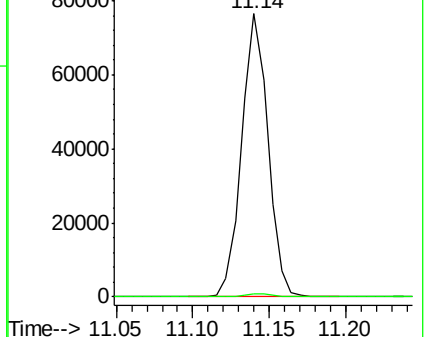
75 100

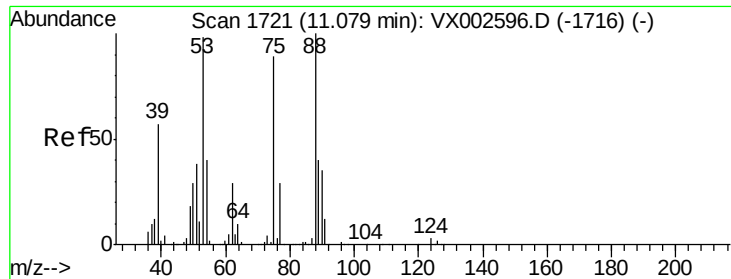
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

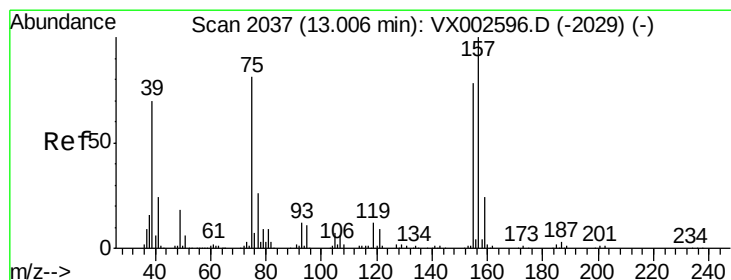
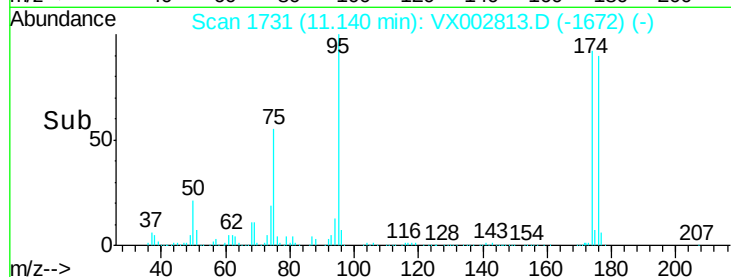
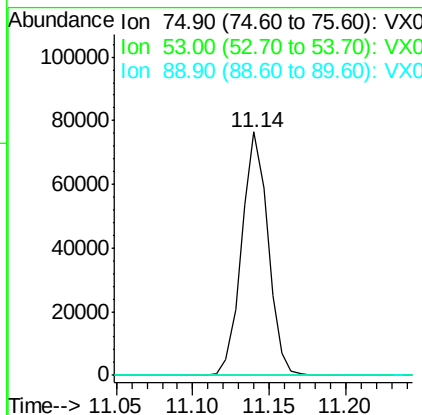
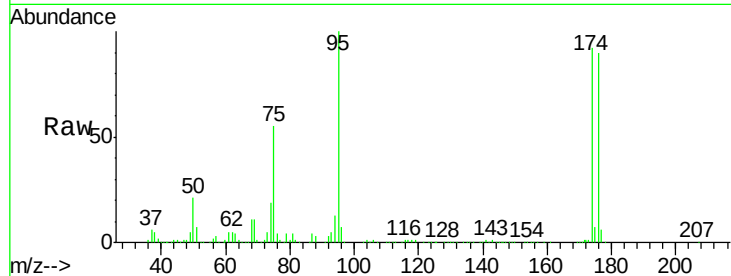




#81
trans-1,4-Dichloro-2-butene
Concen: 81.78 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#16

Tot Ion: 75 Resp: 91340
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.49 ug/l
RT: 12.98 min Scan# 2032
Delta R.T. -0.03 min
Lab File: VX002813.D
Acq: 22 Jun 2018 03:07

Tgt Ion: 75 Resp: 373
Ion Ratio Lower Upper
75 100
155 0.0 45.8 137.4#
157 0.0 60.1 180.3#

