

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062218\
 Data File : VX002843.D
 Acq On : 22 Jun 2018 20:52
 Operator : JC/MD
 Sample : J3592-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 23 00:26:51 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	238107	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336781	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	315960	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	177843	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	163736	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
35) Dibromofluoromethane	5.51	113	129610	48.22	ug/l	0.00
Spiked Amount			Recovery	=	96.44%	
50) Toluene-d8	8.72	98	480284	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
62) 4-Bromofluorobenzene	11.14	95	167157	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	

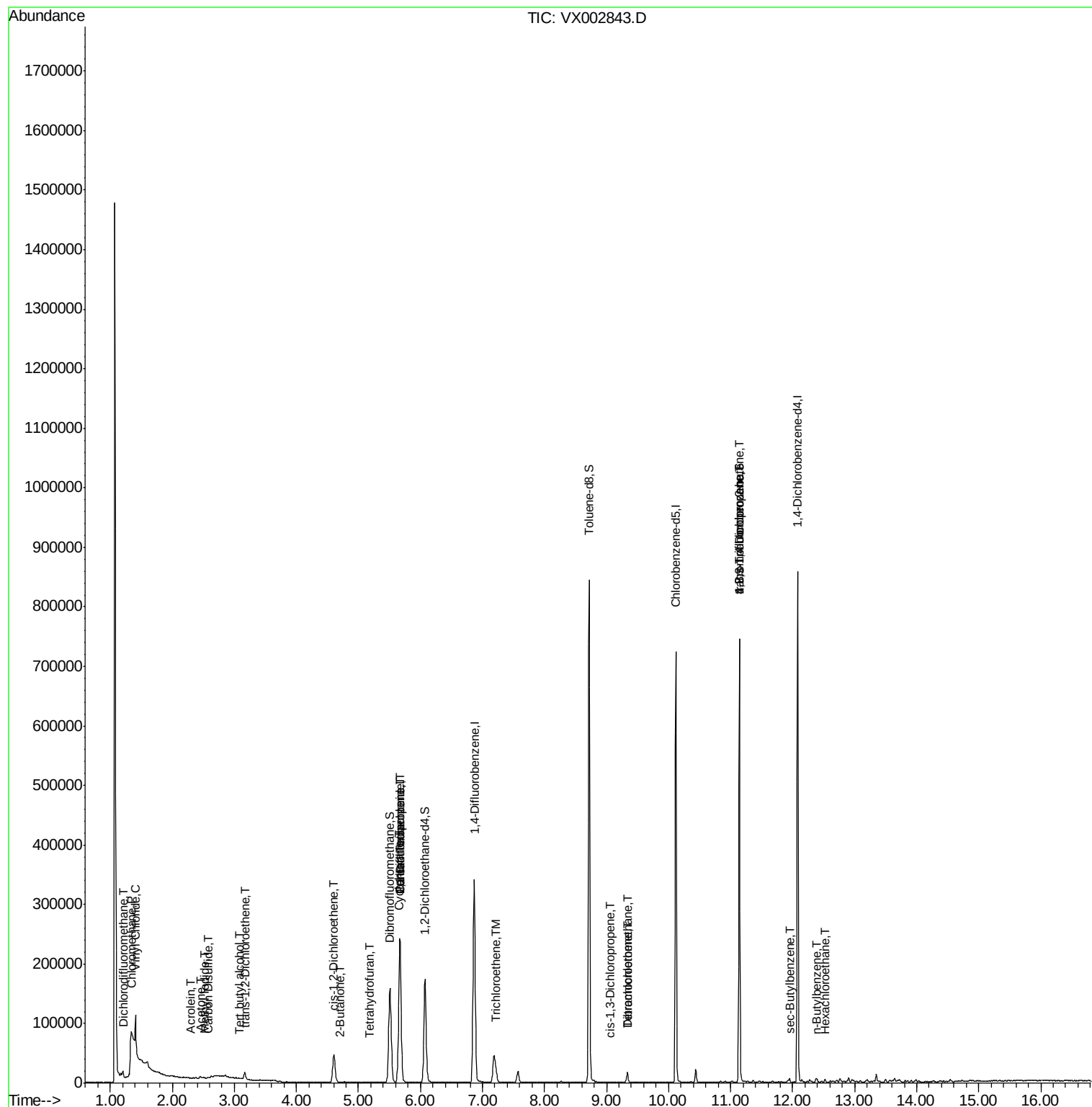
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	3774	1.49	ug/l	93
3) Chloromethane	1.33	50	4462	1.48	ug/l #	63
4) Vinyl Chloride	1.40	62	35739	11.45	ug/l #	39
10) Methyl Iodide	2.53	142	862	5.38	ug/l #	94
11) Tert butyl alcohol	3.09	59	486	0.65	ug/l #	73
13) Acrolein	2.30	56	179	7.36	ug/l #	14
16) Acetone	2.45	43	4125	2.58	ug/l	95
17) Carbon Disulfide	2.58	76	3126	0.50	ug/l #	94
21) trans-1,2-Dichloroethene	3.17	96	4399	1.52	ug/l	97
25) 2-Butanone	4.71	43	592	0.28	ug/l #	52
27) cis-1,2-Dichloroethene	4.60	96	27296	9.29	ug/l	98
29) Tetrahydrofuran	5.17	42	461	0.34	ug/l	93
31) Cyclohexane	5.65	56	5284	1.24	ug/l #	33
36) 1,1-Dichloropropene	5.67	75	17018	4.76	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22273	6.25	ug/l #	18
44) Trichloroethene	7.22	130	6471	2.09	ug/l	97
54) cis-1,3-Dichloropropene	9.05	75	82	3.23	ug/l #	37
60) Dibromochloromethane	9.34	129	2924	4.63	ug/l #	11
64) Tetrachloroethene	9.34	164	3276	0.93	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	89497	26.67	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	89497	82.38	ug/l #	7
85) sec-Butylbenzene	11.95	105	3138	0.26	ug/l	78
89) n-Butylbenzene	12.39	91	2293	0.24	ug/l #	72
90) Hexachloroethane	12.52	117	131	2.70	ug/l #	1

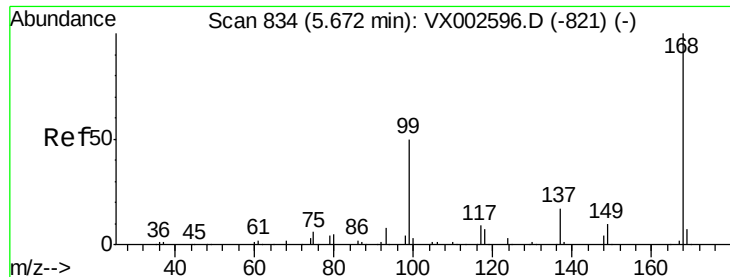
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062218\
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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# 834

Delta R.T. 0.00 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

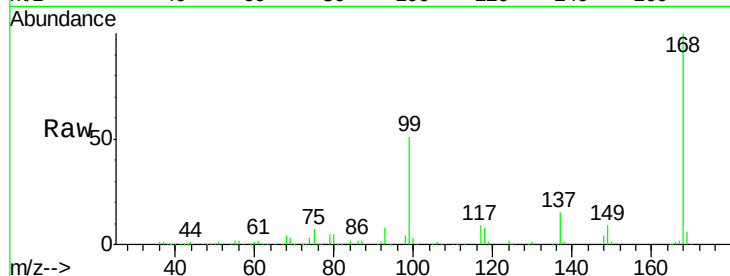
ClientSampleId :

Tot Ion:168 Resp: 238107

Ion Ratio Lower Upper

168 100

99 50.5 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

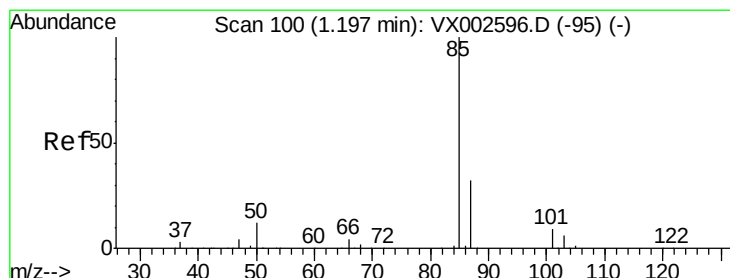
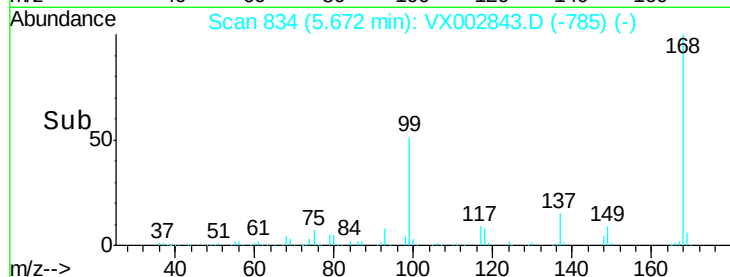
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 1.49 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002843.D

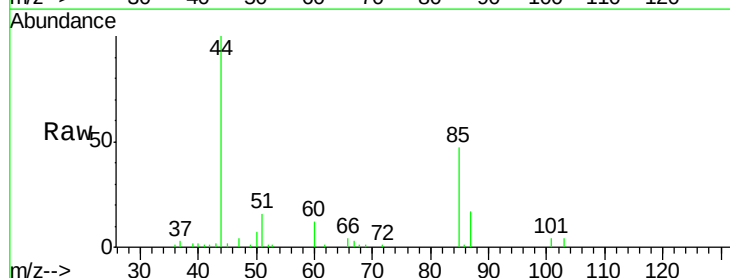
Acq: 22 Jun 2018 20:52

Tgt Ion: 85 Resp: 3774

Ion Ratio Lower Upper

85 100

87 35.9 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

4000

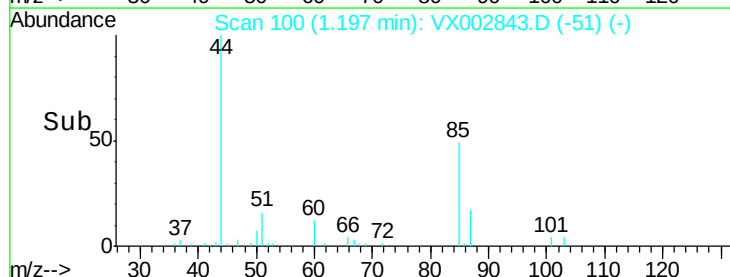
3000

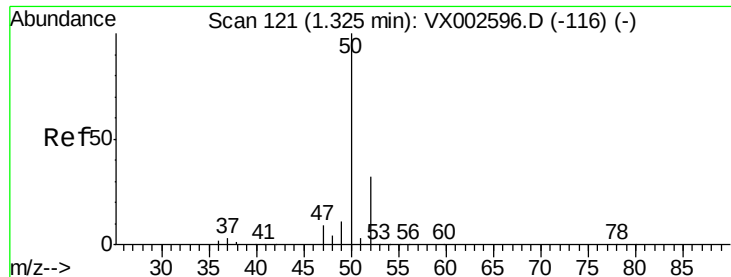
2000

1000

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 1.48 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

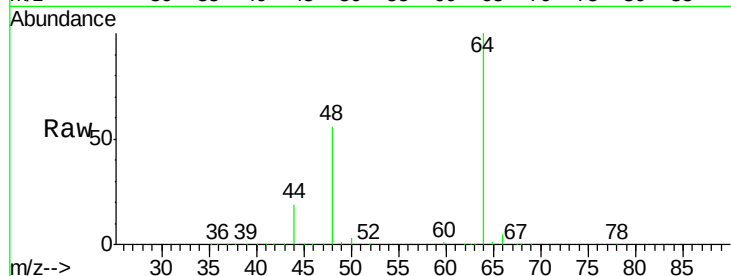
ClientSampleId :

Tot Ion: 50 Resp: 4462

Ion Ratio Lower Upper

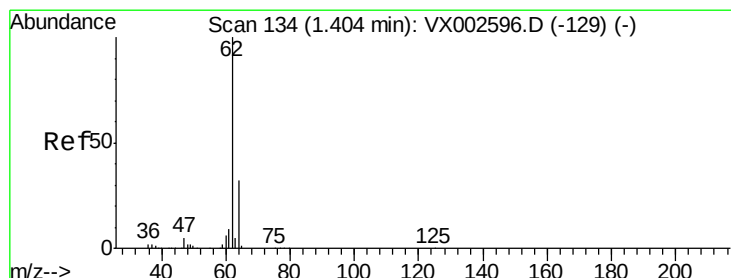
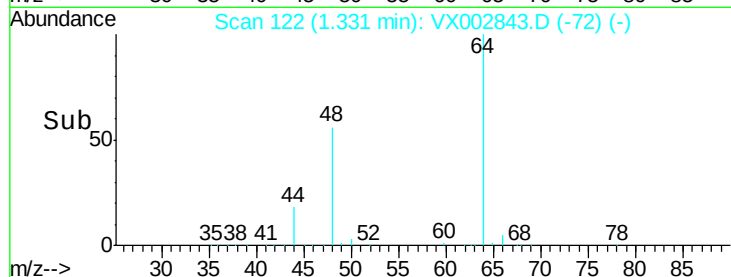
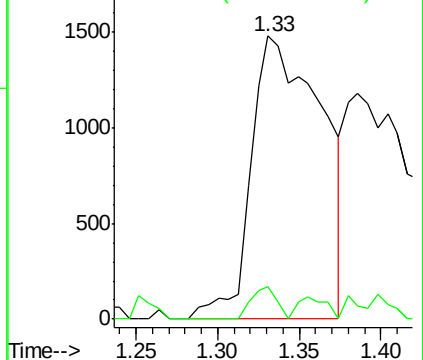
50 100

52 11.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 11.45 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX002843.D

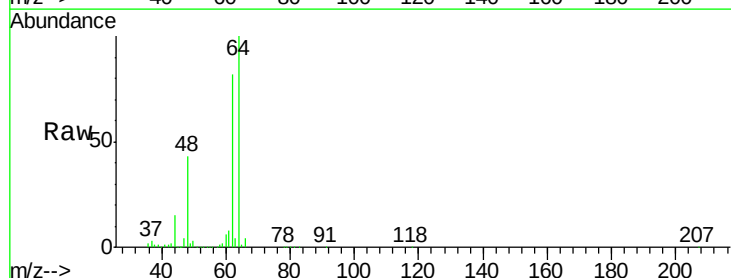
Acq: 22 Jun 2018 20:52

Tgt Ion: 62 Resp: 35739

Ion Ratio Lower Upper

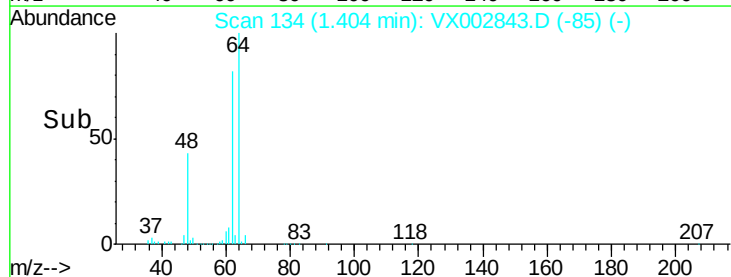
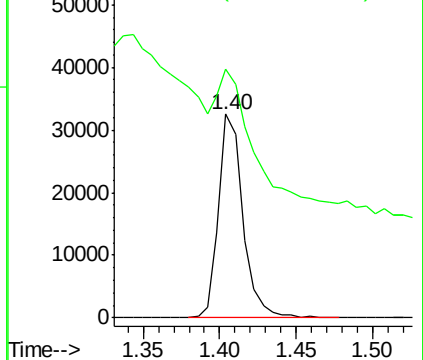
62 100

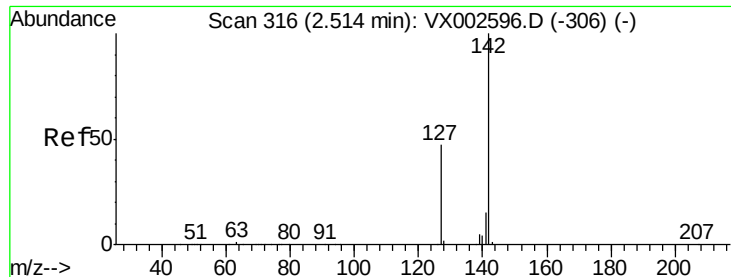
64 65.7 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

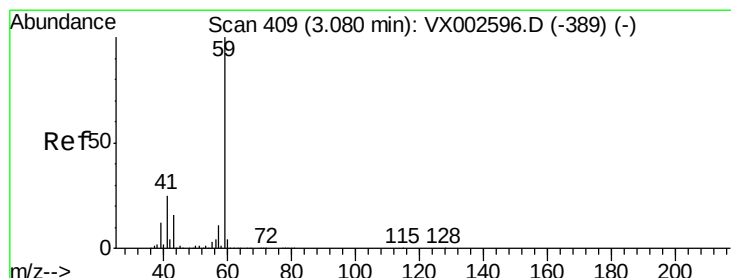
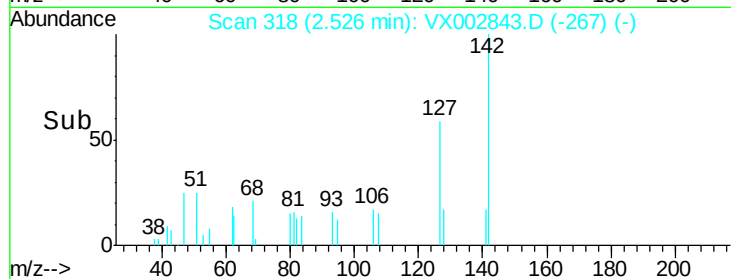
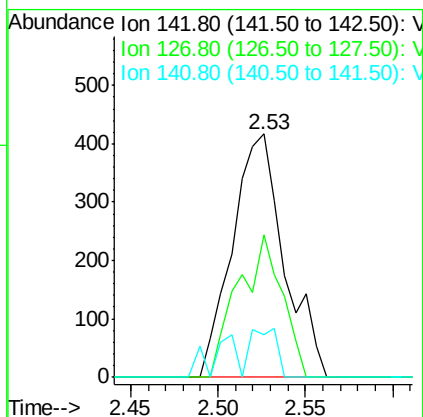
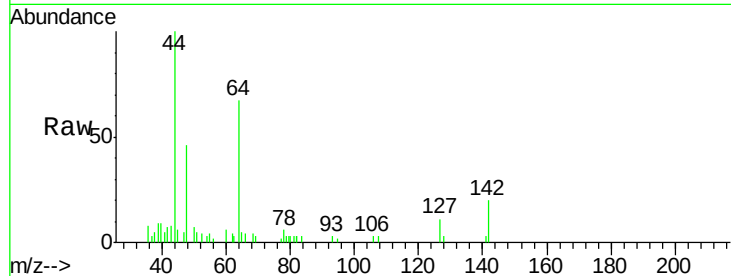




#10
Methvl Iodide
Concen: 5.38 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

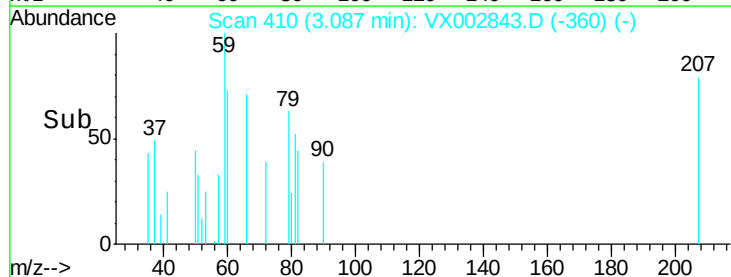
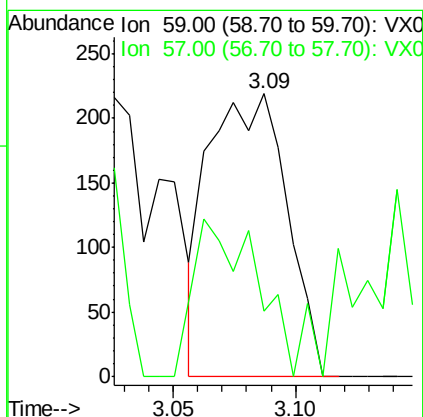
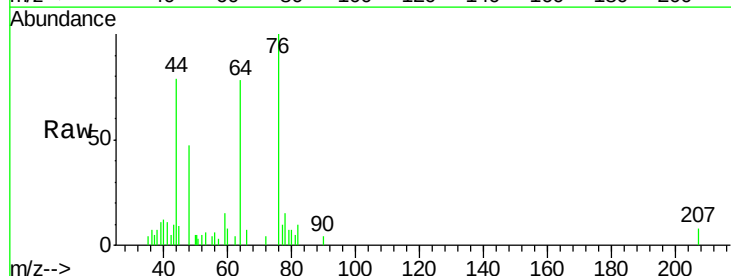
Instrument :
MSVOA_X
ClientSampled :

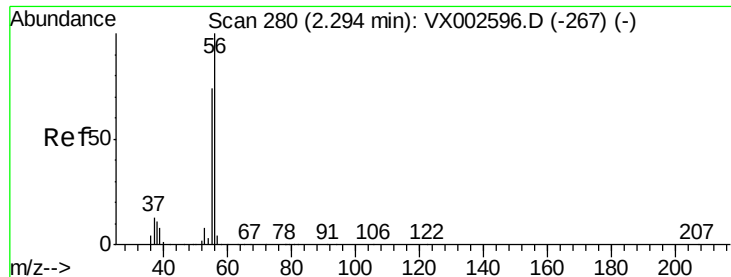
Tot Ion:142 Resp: 862
Ion Ratio Lower Upper
142 100
127 49.2 36.6 55.0
141 10.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.65 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion: 59 Resp: 486
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 7.36 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

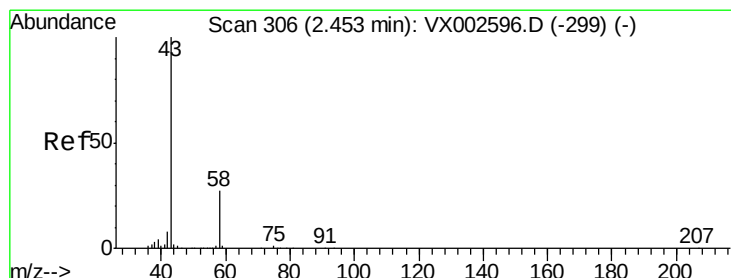
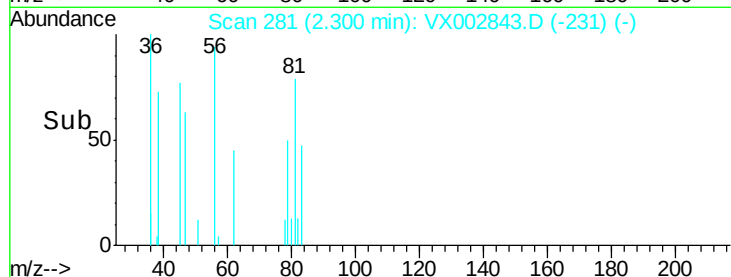
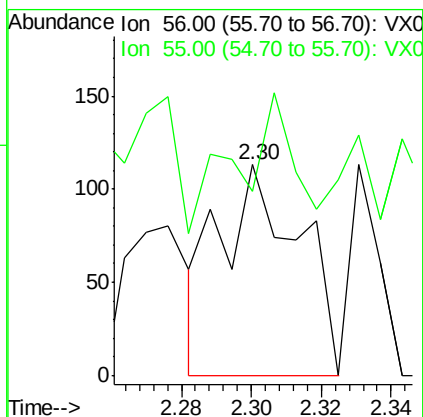
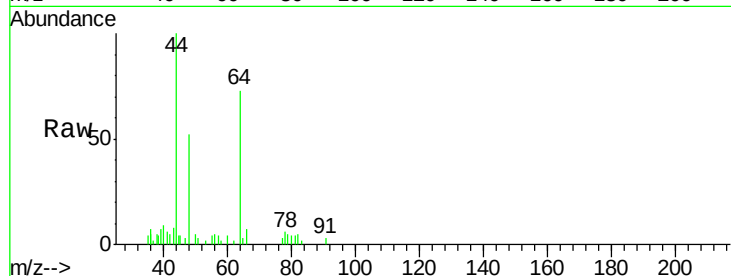
ClientSampleId :

Tot Ion: 56 Resp: 179

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 2.58 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002843.D

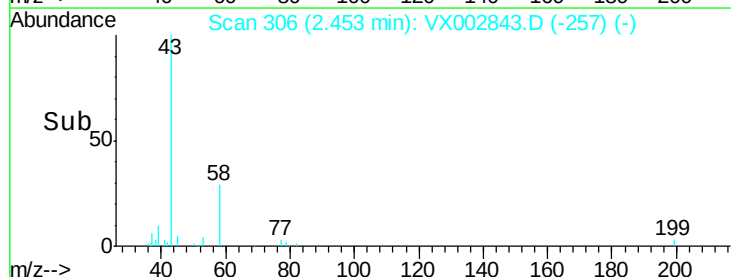
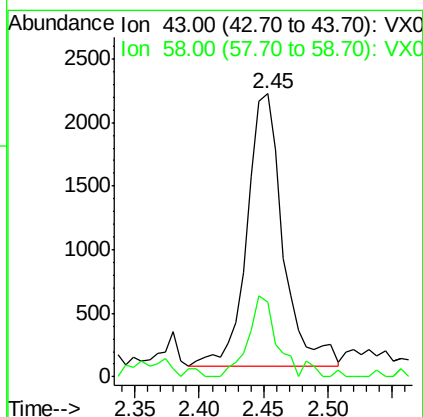
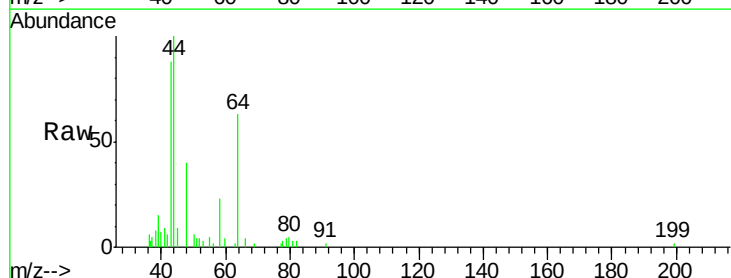
Acq: 22 Jun 2018 20:52

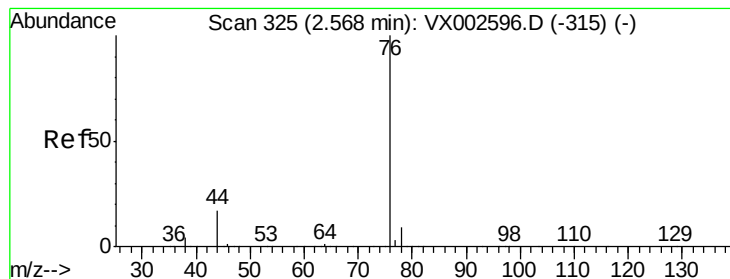
Tgt Ion: 43 Resp: 4125

Ion Ratio Lower Upper

43 100

58 25.2 22.1 33.1





#17

Carbon Disulfide

Concen: 0.50 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

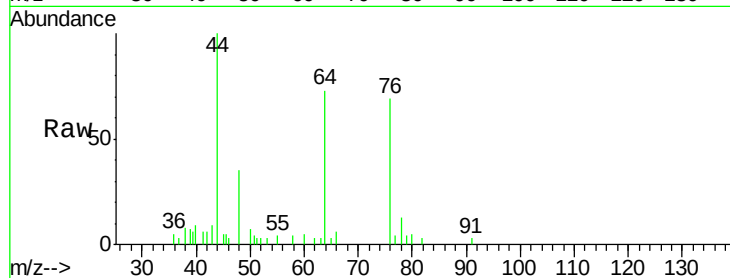
ClientSampled :

Tot Ion: 76 Resp: 3126

Ion Ratio Lower Upper

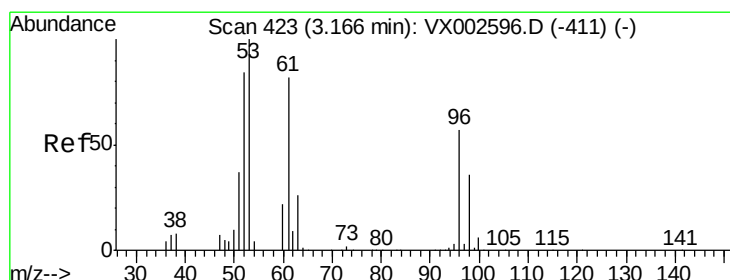
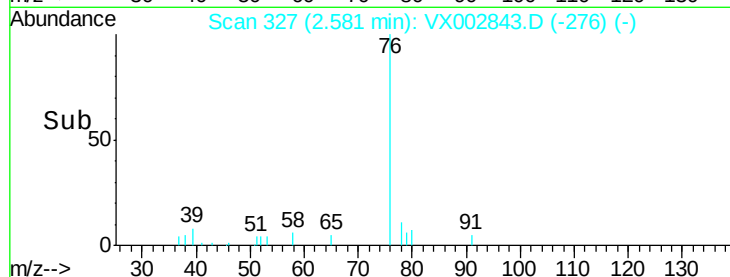
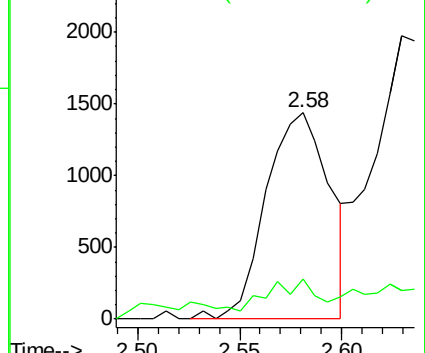
76 100

78 10.7 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 1.52 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

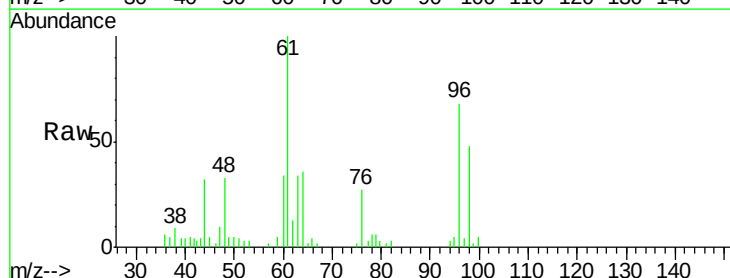
Tgt Ion: 96 Resp: 4399

Ion Ratio Lower Upper

96 100

61 148.1 117.0 175.4

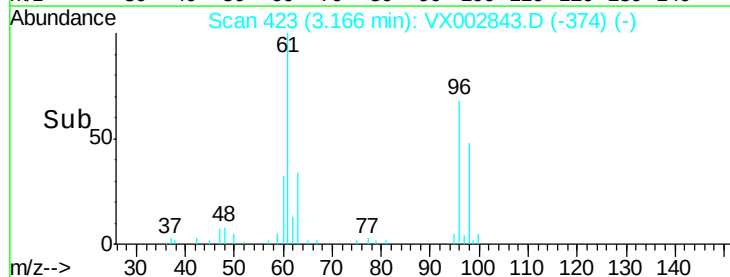
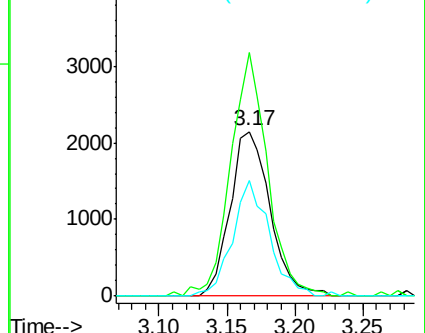
98 70.4 52.4 78.6

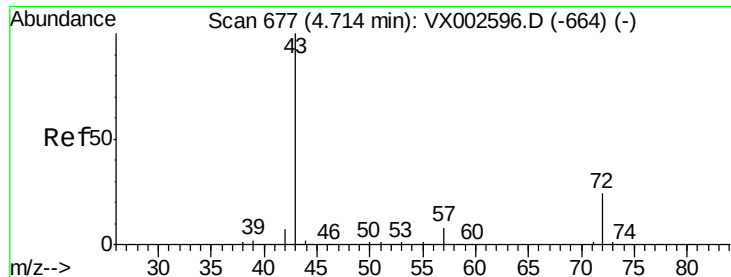


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

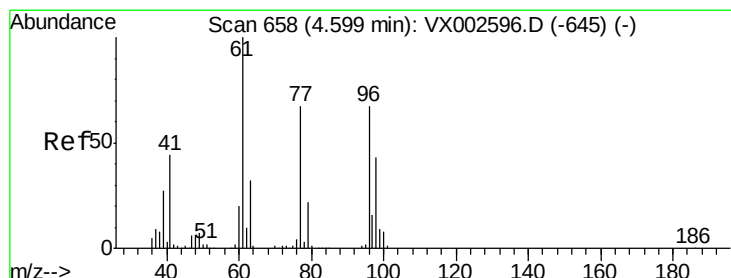
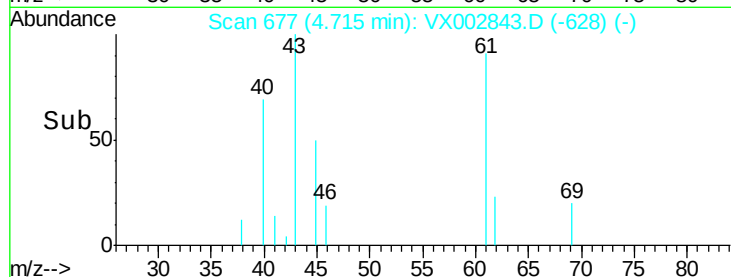
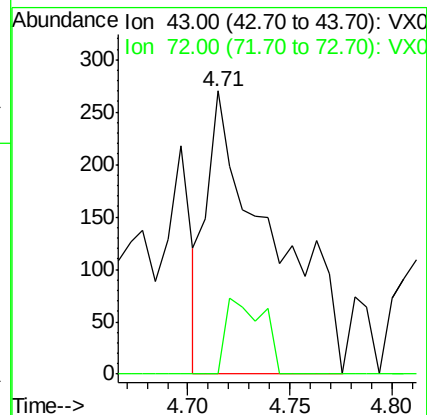
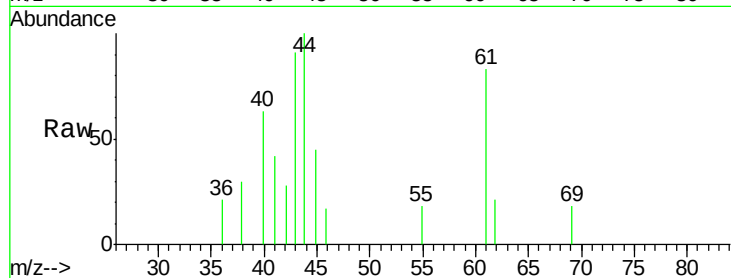
ClientSampled :

Tot Ion: 43 Resp: 592

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#27

cis-1,2-Dichloroethene

Concen: 9.29 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

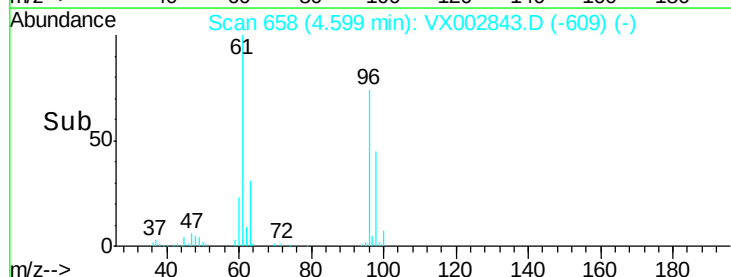
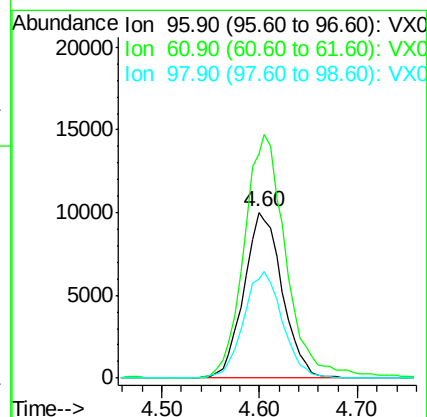
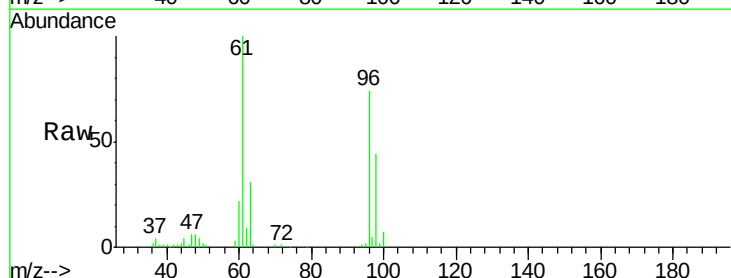
Tgt Ion: 96 Resp: 27296

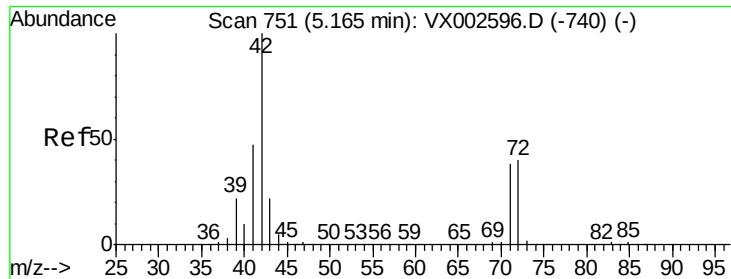
Ion Ratio Lower Upper

96 100

61 161.2 0.0 330.2

98 64.9 0.0 130.2





#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

ClientSampled :

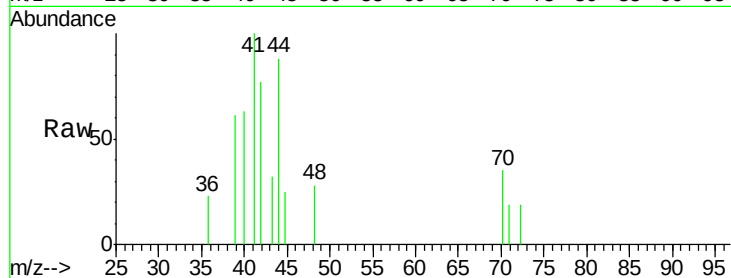
Tot Ion: 42 Resp: 461

Ion Ratio Lower Upper

42 100

72 38.0 32.0 48.0

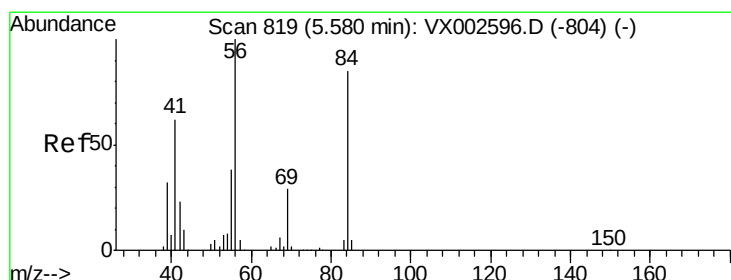
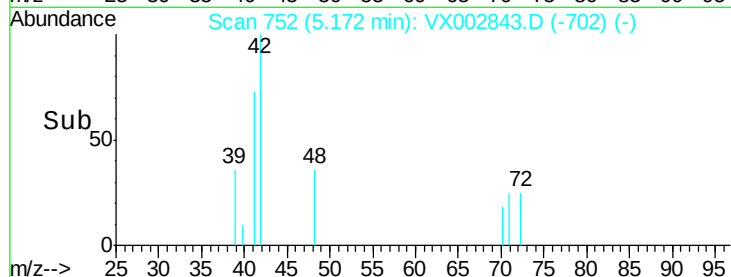
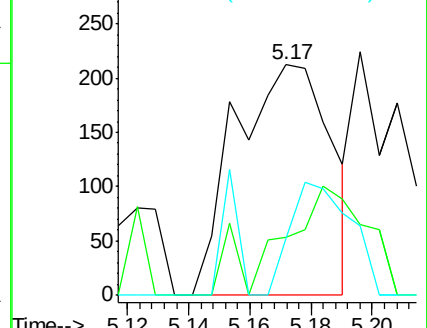
71 31.2 30.1 45.1



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: 1.24 ug/l

RT: 5.65 min Scan# 831

Delta R.T. 0.07 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

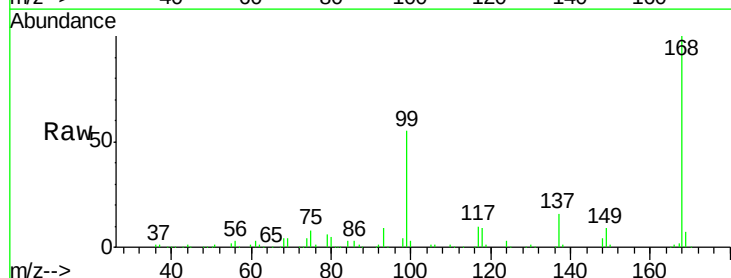
Tgt Ion: 56 Resp: 5284

Ion Ratio Lower Upper

56 100

69 132.3 23.7 35.5#

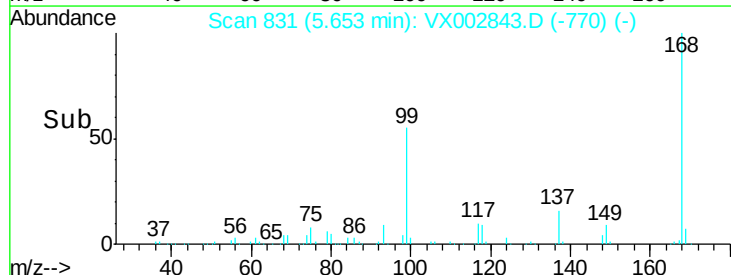
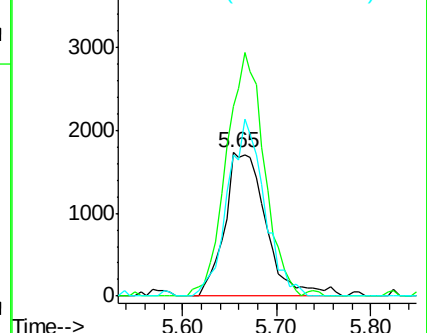
84 98.5 64.1 96.1#

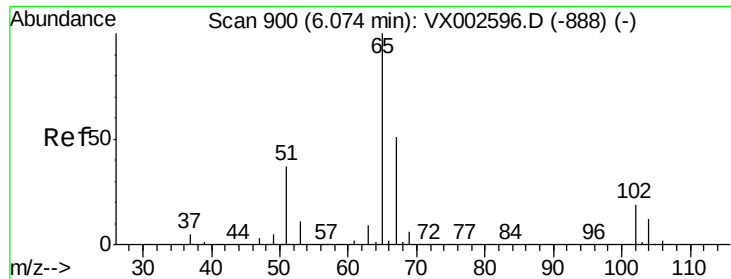


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

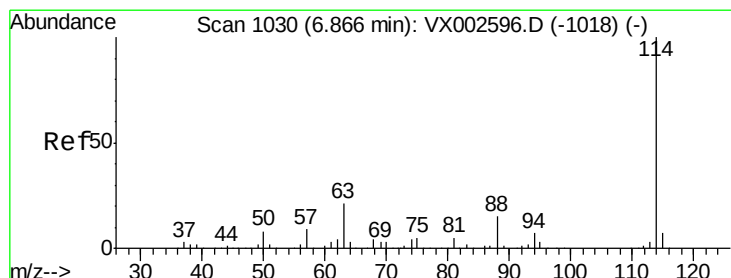
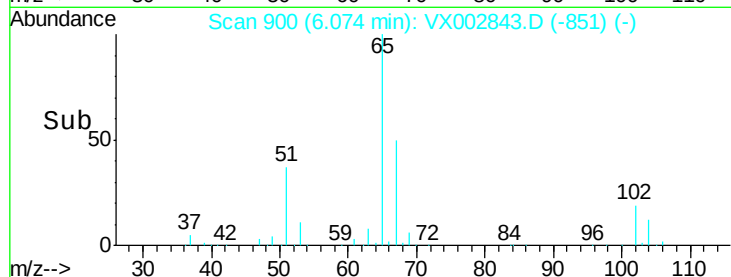
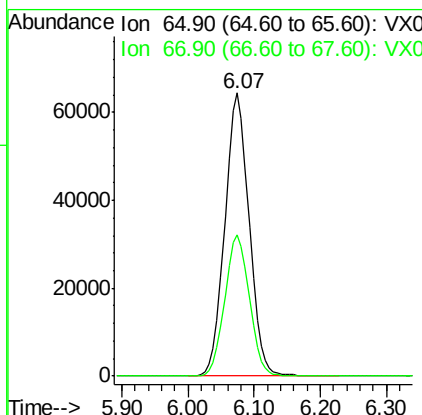
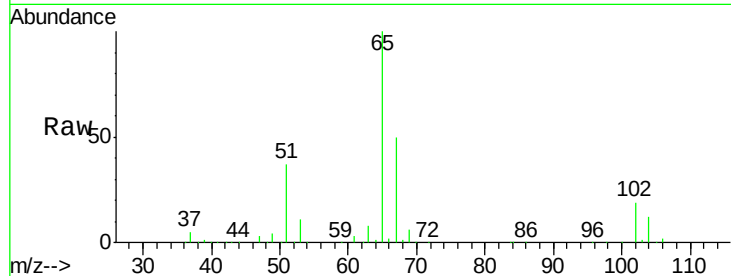




#33
 1,2-Dichloroethane-d4
 Concen: 45.25 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002843.D
 Acq: 22 Jun 2018 20:52

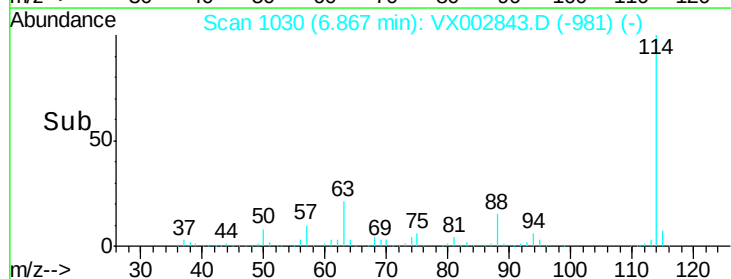
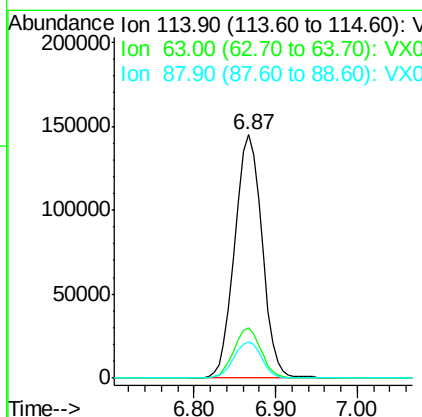
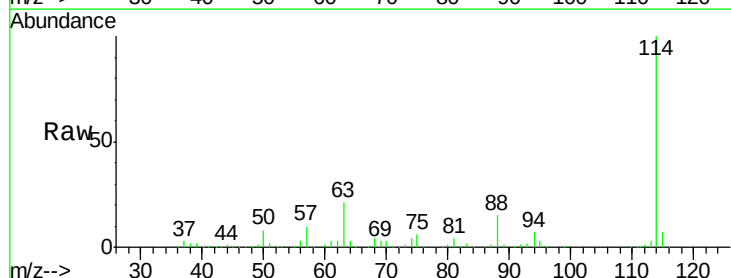
Instrument :
 MSVOA_X
 ClientSampleId :

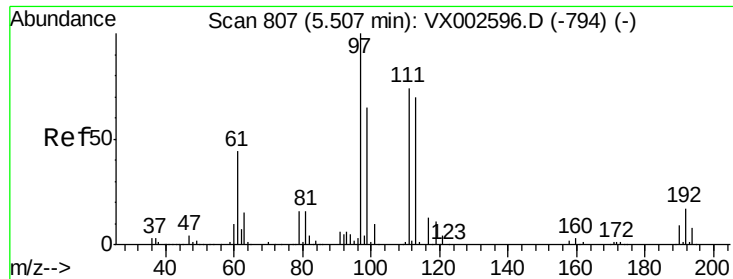
Tot Ion: 65 Resp: 163736
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002843.D
 Acq: 22 Jun 2018 20:52

Tgt Ion: 114 Resp: 336781
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.22 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

ClientSampleId :

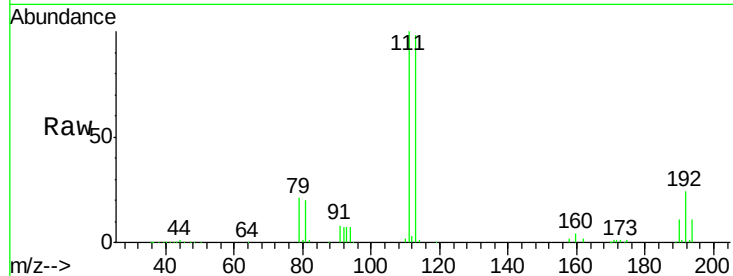
Tot Ion:113 Resp: 129610

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

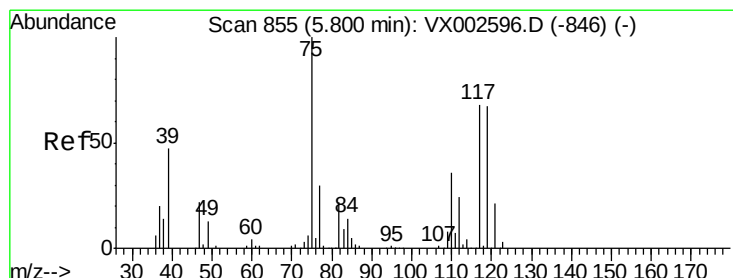
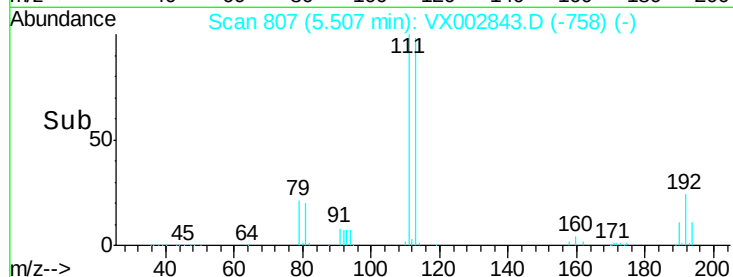
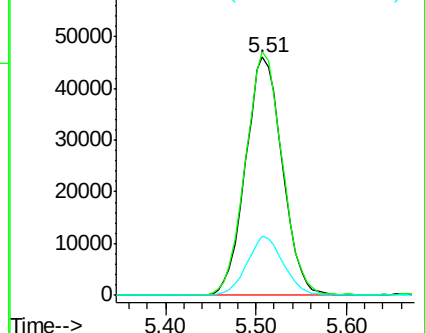
192 24.4 19.1 28.7



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: 4.76 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002843.D

Acq: 22 Jun 2018 20:52

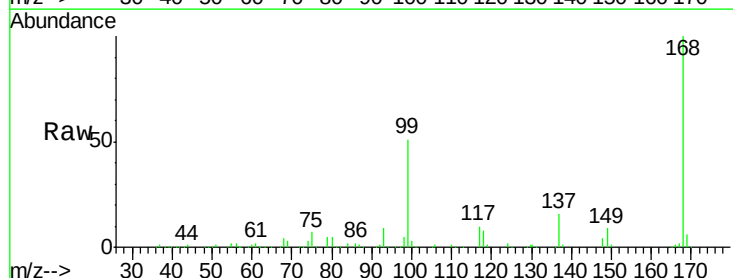
Tgt Ion: 75 Resp: 17018

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

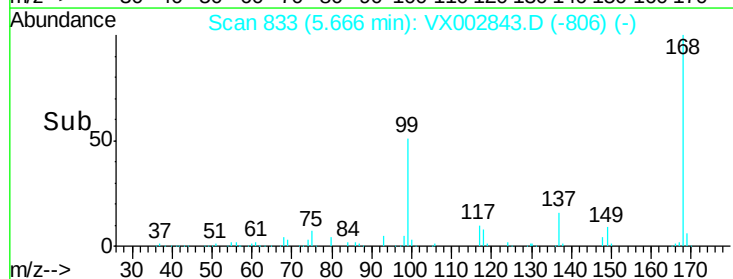
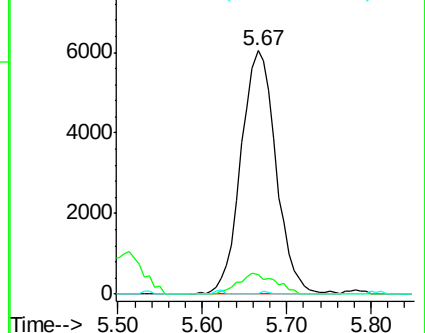
77 0.2 24.3 36.5#

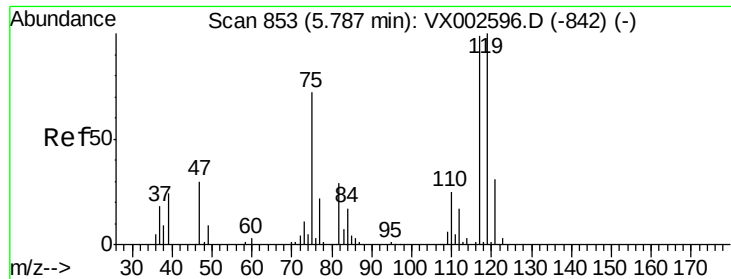


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

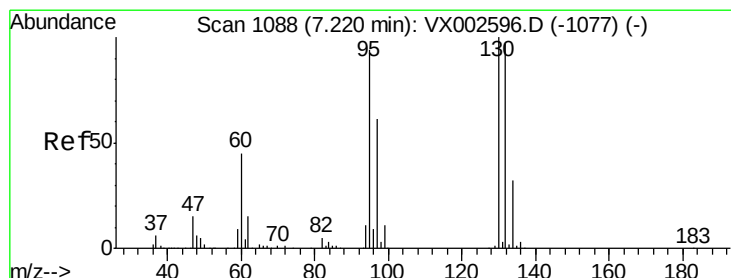
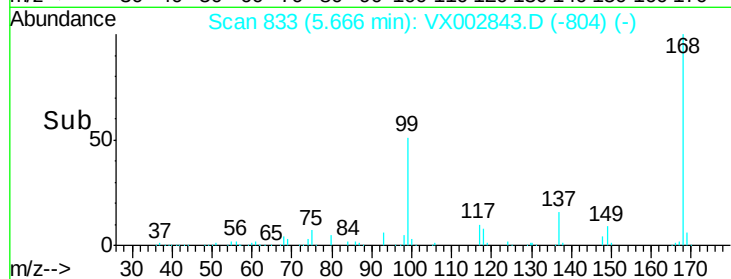
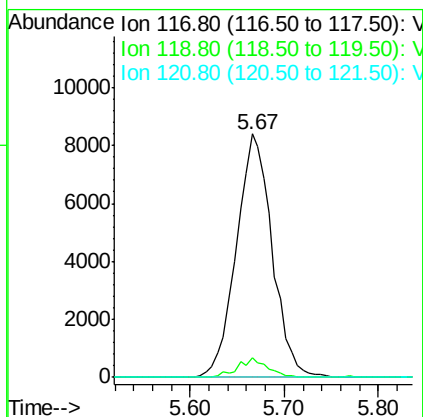
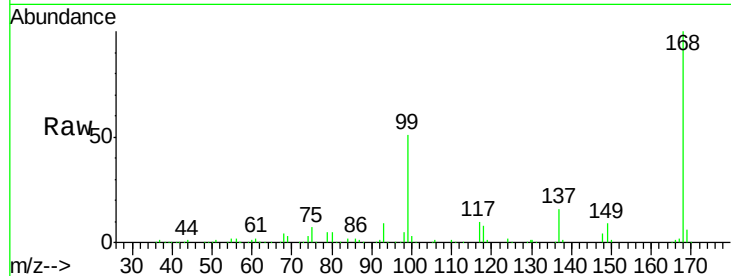




#38
Carbon Tetrachloride
Concen: 6.25 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

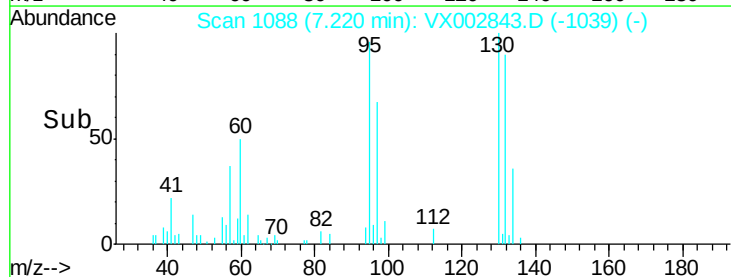
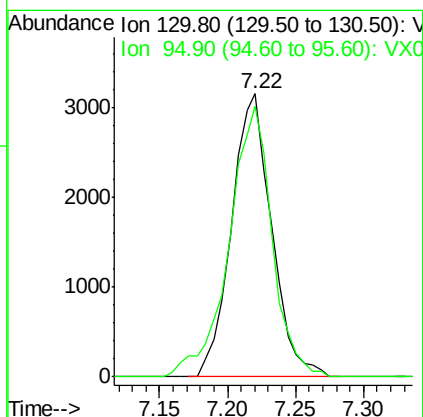
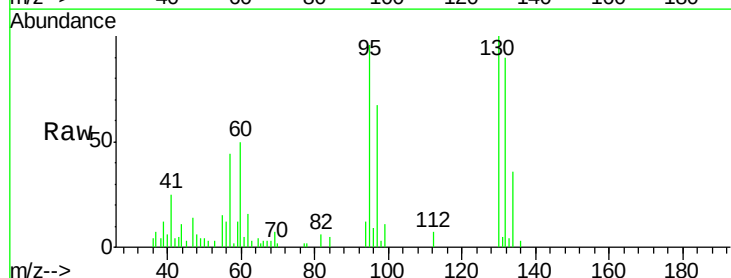
Instrument :
MSVOA_X
ClientSampled :

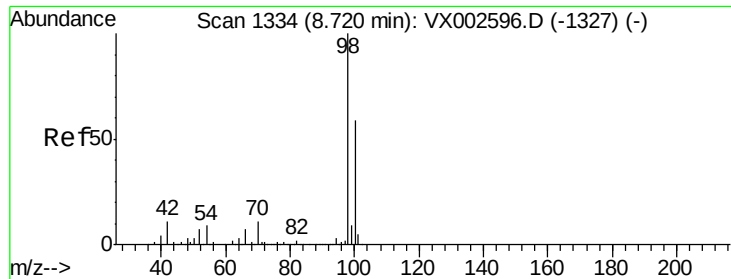
Tot Ion:117 Resp: 22273
Ion Ratio Lower Upper
117 100
119 8.2 77.4 116.0#
121 0.0 24.4 36.6#



#44
Trichloroethene
Concen: 2.09 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion:130 Resp: 6471
Ion Ratio Lower Upper
130 100
95 95.6 0.0 185.4

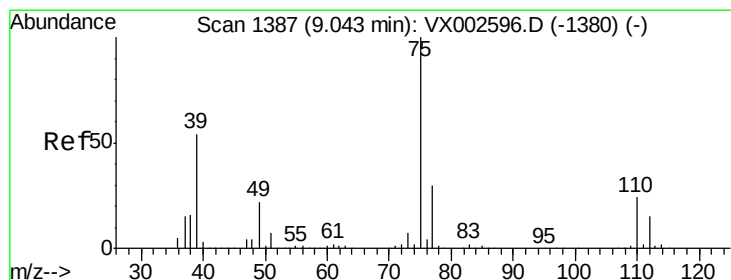
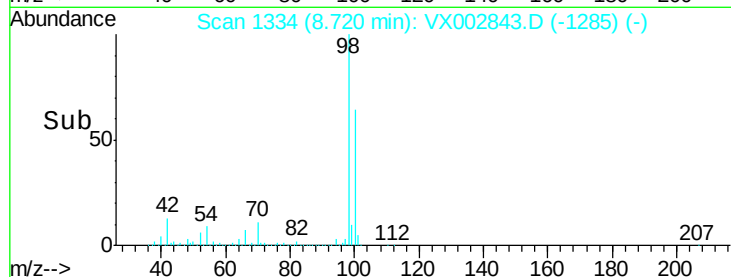
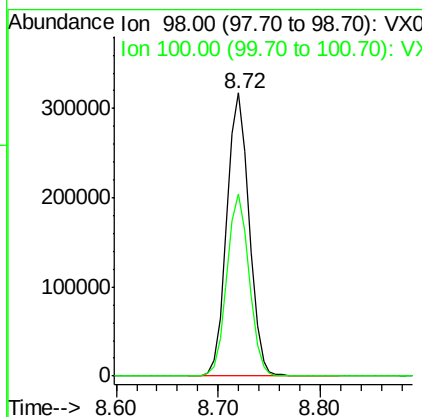
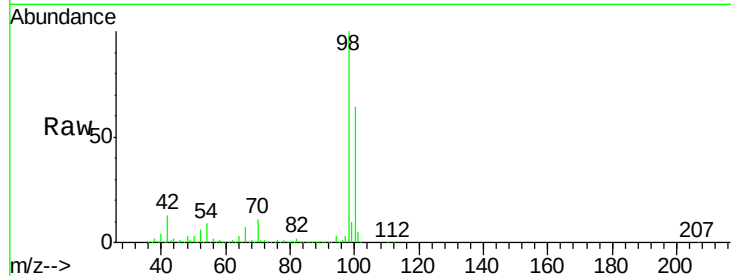




#50
Toluene-d8
Concen: 47.06 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

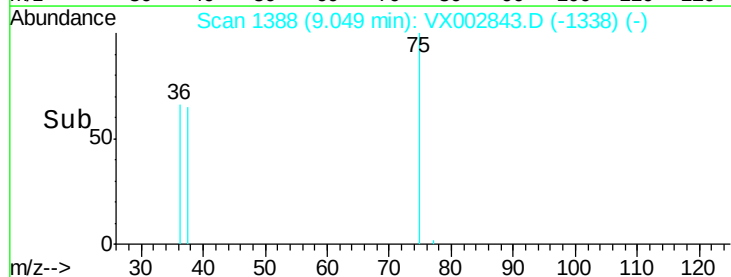
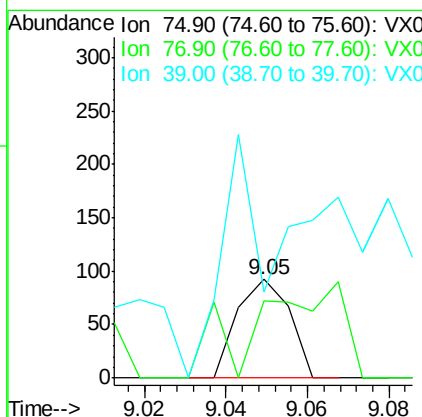
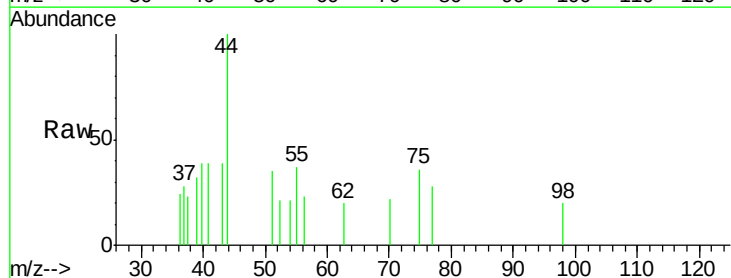
Instrument :
MSVOA_X
ClientSampled :

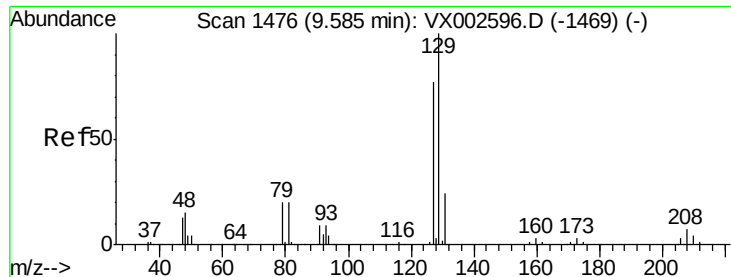
Tot Ion: 98 Resp: 480284
Ion Ratio Lower Upper
98 100
100 64.1 50.9 76.3



#54
cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion: 75 Resp: 82
Ion Ratio Lower Upper
75 100
77 78.3 24.8 37.2#
39 88.0 42.4 63.6#

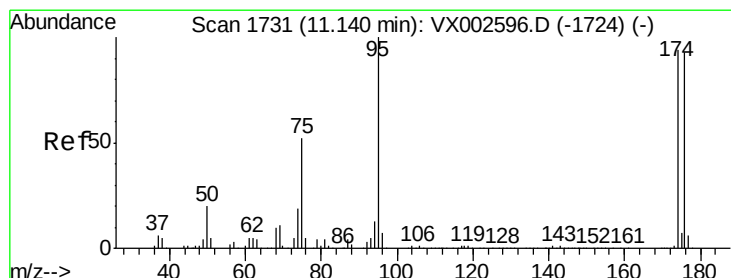
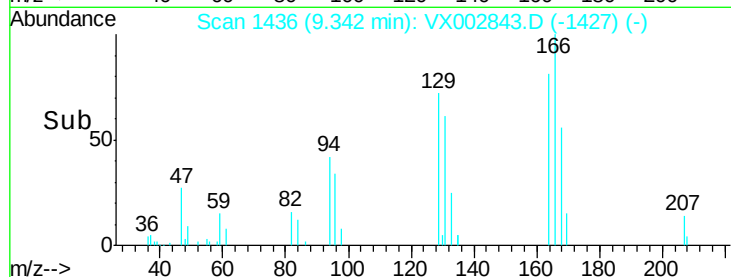
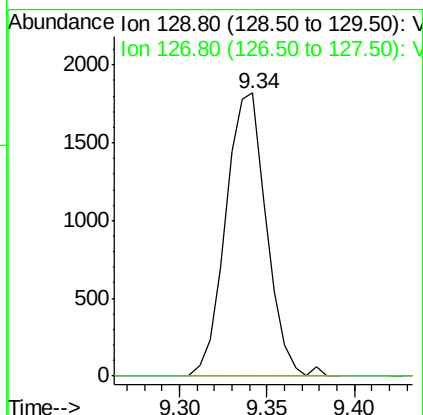
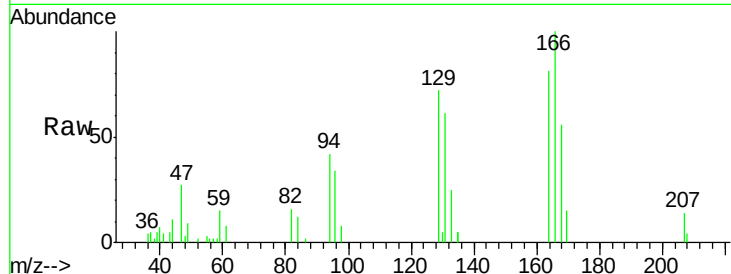




#60
Dibromochloromethane
Concen: 4.63 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

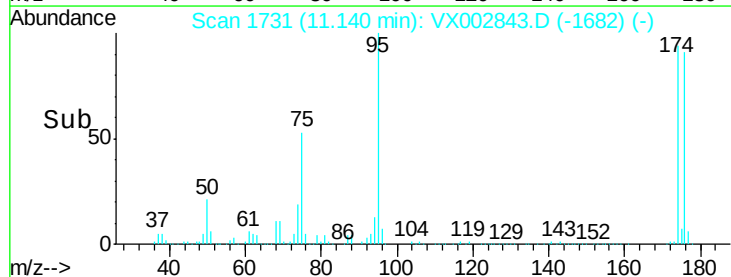
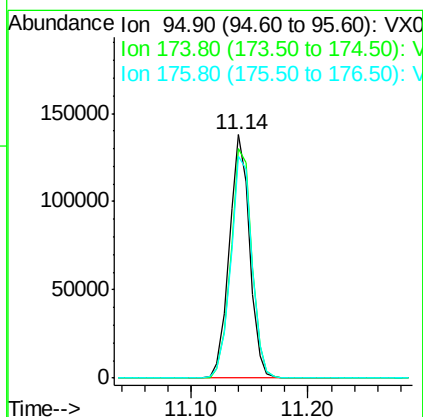
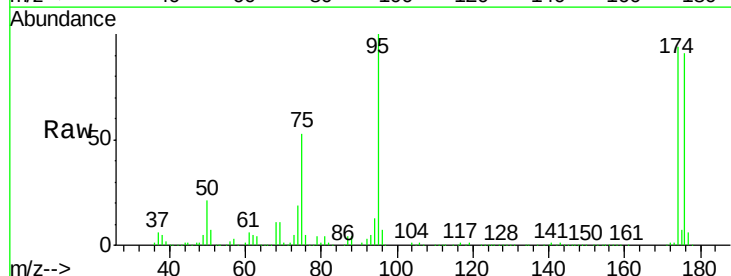
Instrument :
MSVOA_X
ClientSampleId :

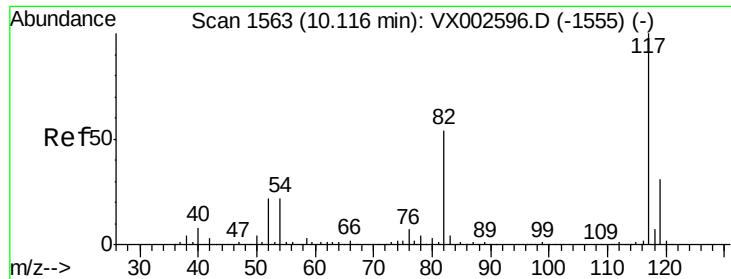
Tot Ion:129 Resp: 2924
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#



#62
4-Bromofluorobenzene
Concen: 43.22 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion: 95 Resp: 167157
Ion Ratio Lower Upper
95 100
174 98.0 0.0 187.4
176 95.2 0.0 181.0

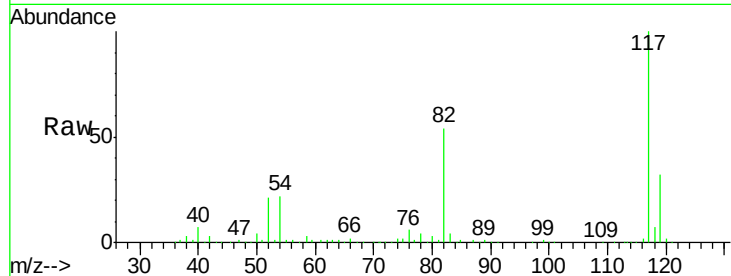




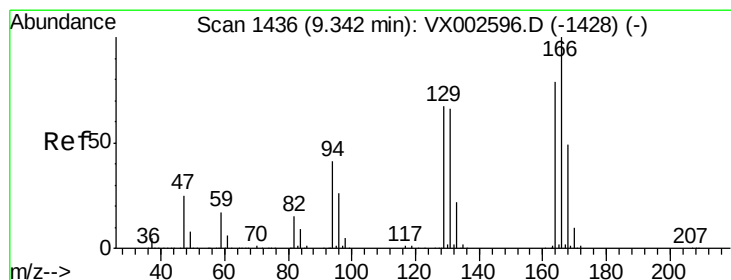
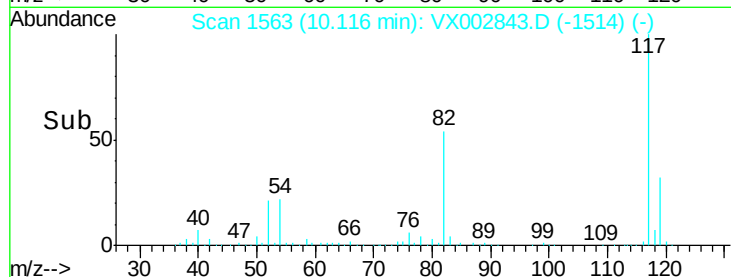
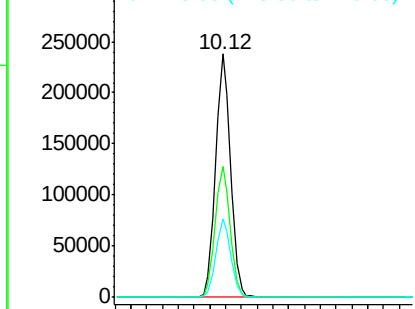
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 315960
Ion Ratio Lower Upper
117 100
82 53.6 45.0 67.4
119 32.3 25.8 38.6

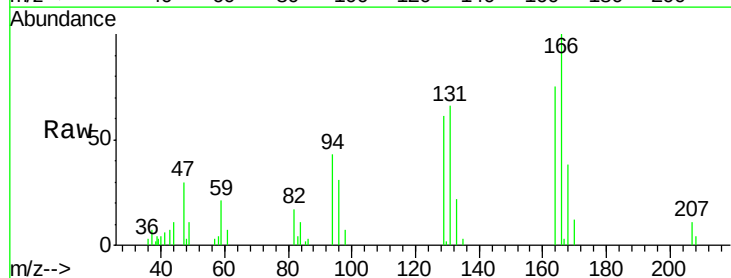


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

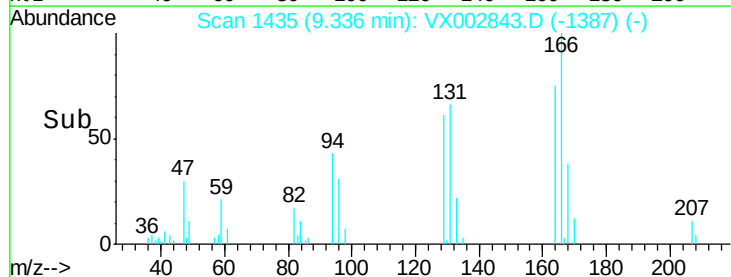
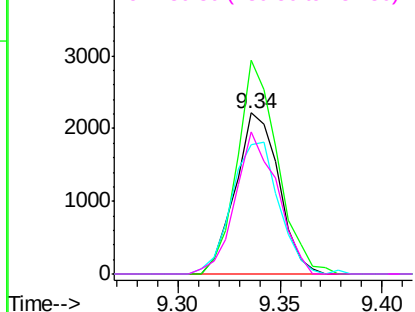


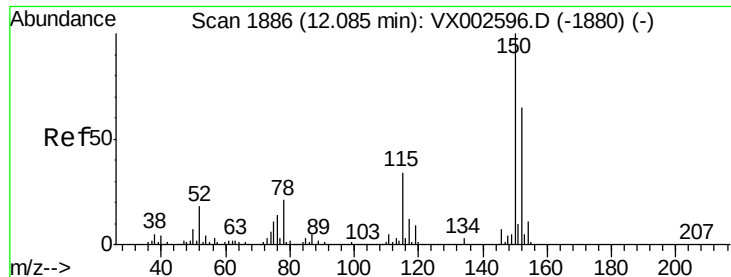
#64
Tetrachloroethene
Concen: 0.93 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion:164 Resp: 3276
Ion Ratio Lower Upper
164 100
166 132.9 102.9 154.3
129 80.5 68.6 102.8
131 88.2 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX002843.D

Acq: 22 Jun 2018 20:52

Instrument :

MSVOA_X

ClientSampleId :

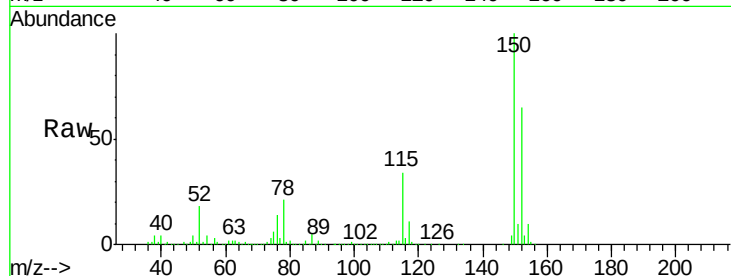
Tot Ion:152 Resp: 177843

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

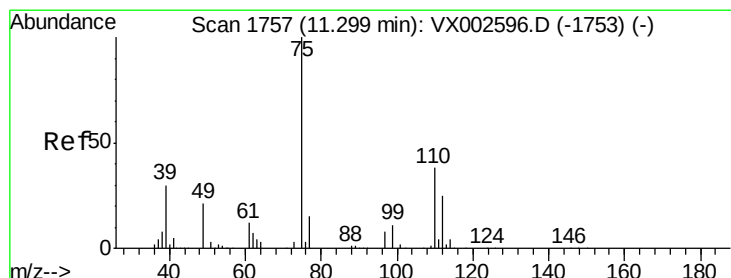
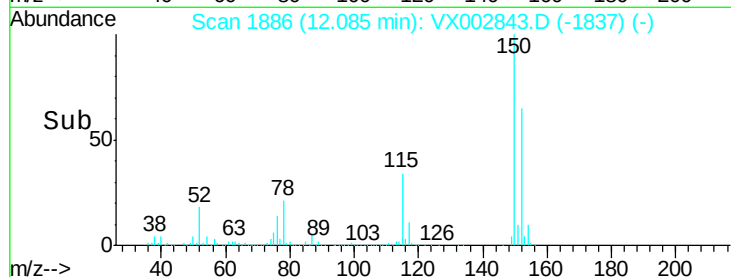
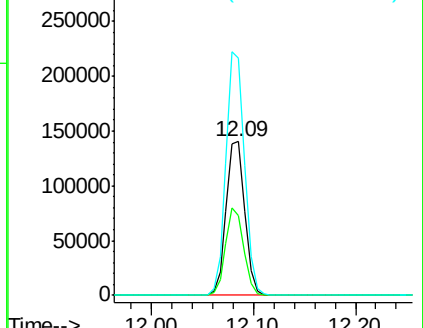
150 157.7 0.0 347.2



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: 26.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002843.D

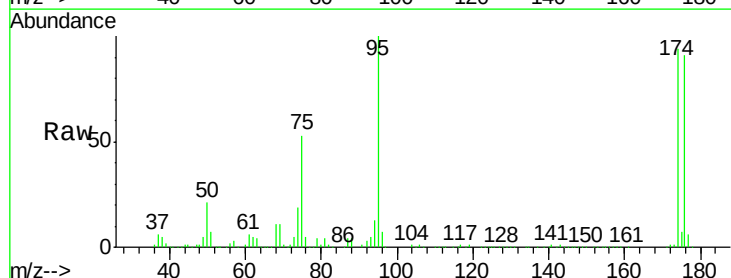
Acq: 22 Jun 2018 20:52

Tgt Ion: 75 Resp: 89497

Ion Ratio Lower Upper

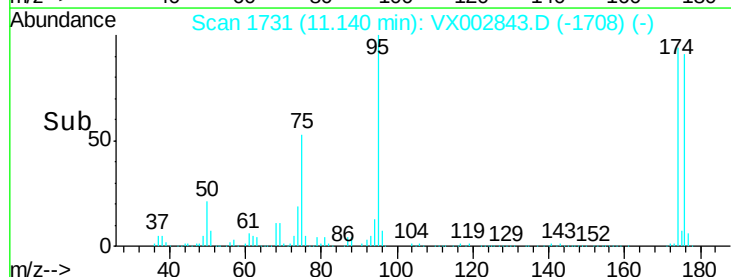
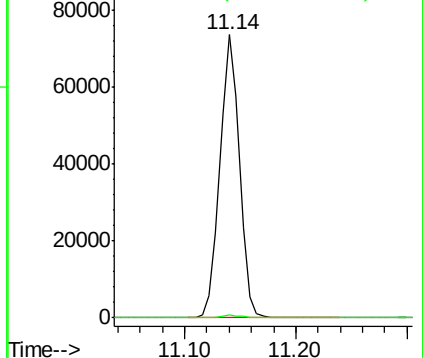
75 100

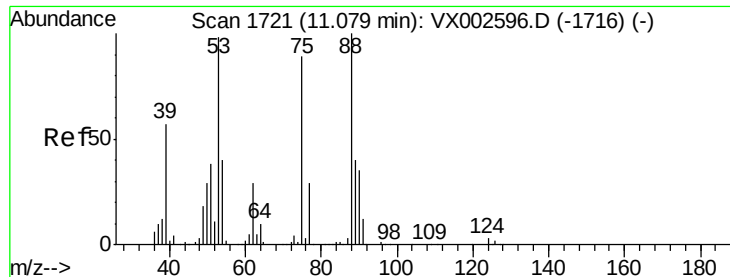
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

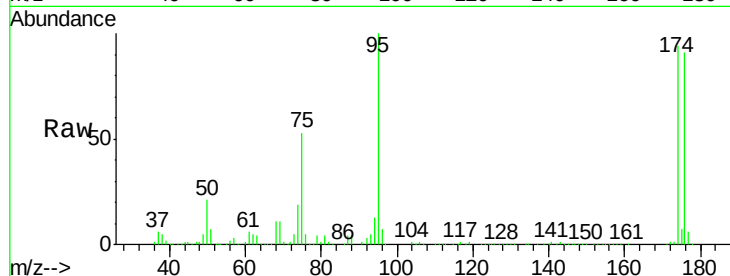




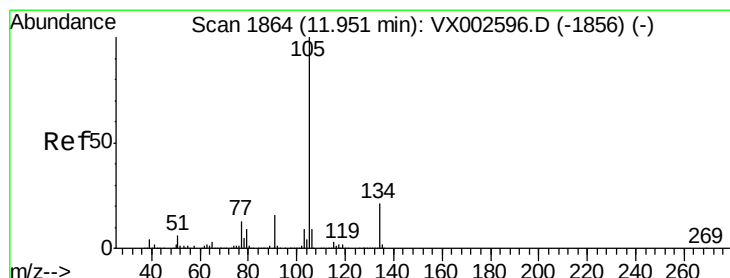
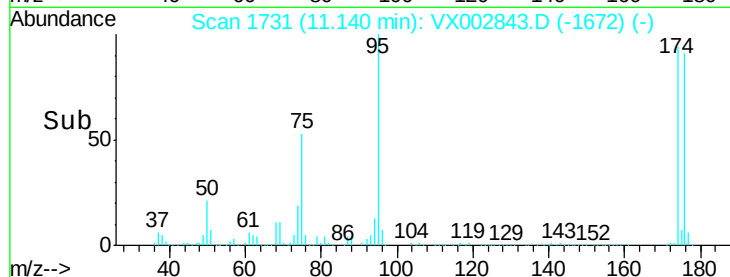
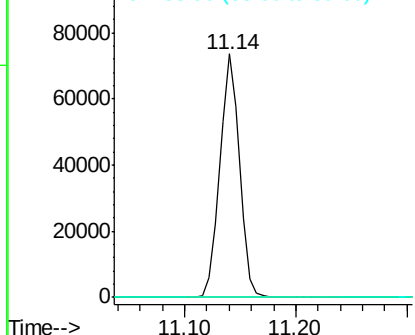
#81
trans-1,4-Dichloro-2-butene
Concen: 82.38 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 89497
Ion Ratio Lower Upper
75 100
53 0.2 86.8 130.2#
89 0.0 38.2 57.2#

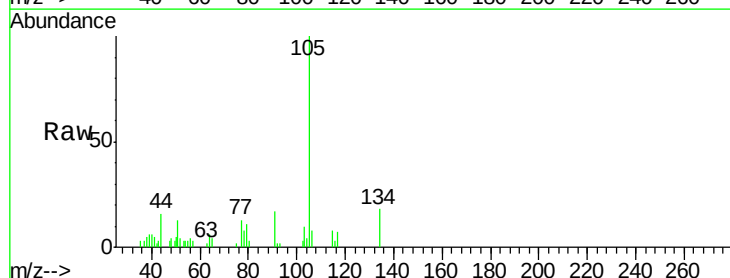


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0

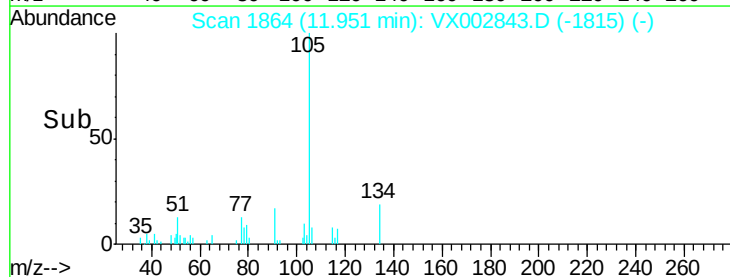
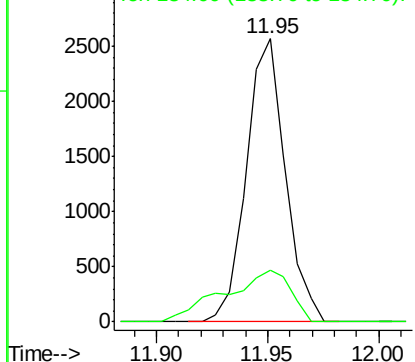


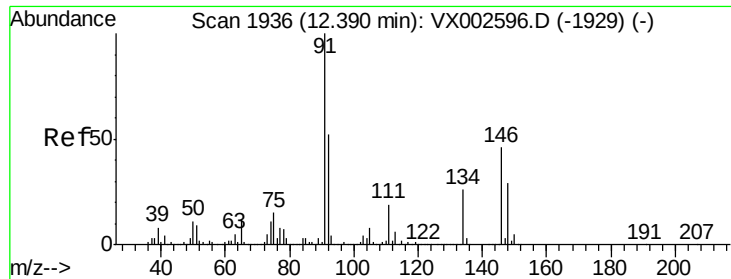
#85
sec-Butylbenzene
Concen: 0.26 ug/l
RT: 11.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion: 105 Resp: 3138
Ion Ratio Lower Upper
105 100
134 31.0 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V

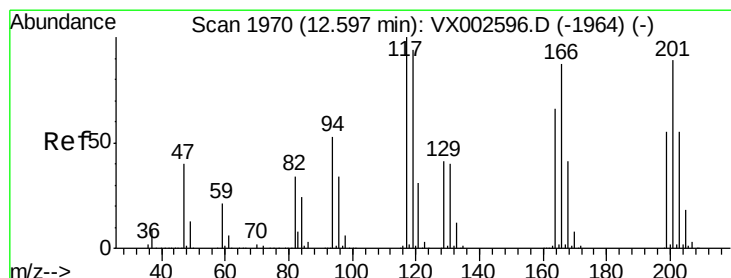
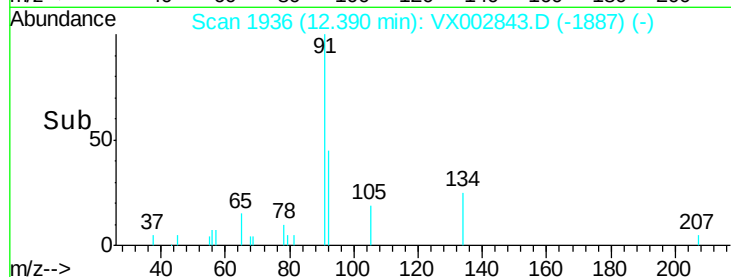
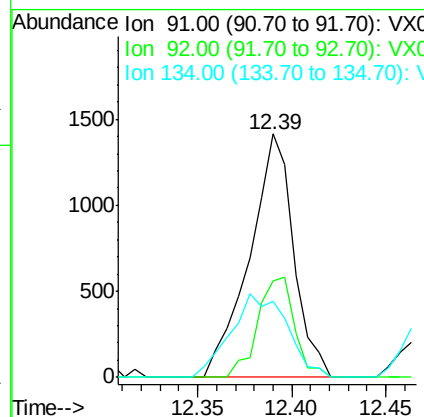
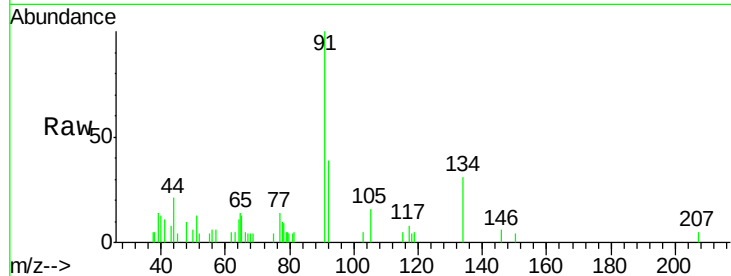




#89
n-Butylbenzene
Concen: 0.24 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 91 Resp: 2293
Ion Ratio Lower Upper
91 100
92 34.3 26.0 78.0
134 43.6 13.5 40.5#



#90
Hexachloroethane
Concen: 2.70 ug/l
RT: 12.52 min Scan# 1958
Delta R.T. -0.07 min
Lab File: VX002843.D
Acq: 22 Jun 2018 20:52

Tgt Ion: 117 Resp: 131
Ion Ratio Lower Upper
117 100
201 0.0 49.0 147.0#

