

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005026.D
 Acq On : 04 Oct 2018 18:41
 Operator : JC/MD
 Sample : J5204-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 05 03:23:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

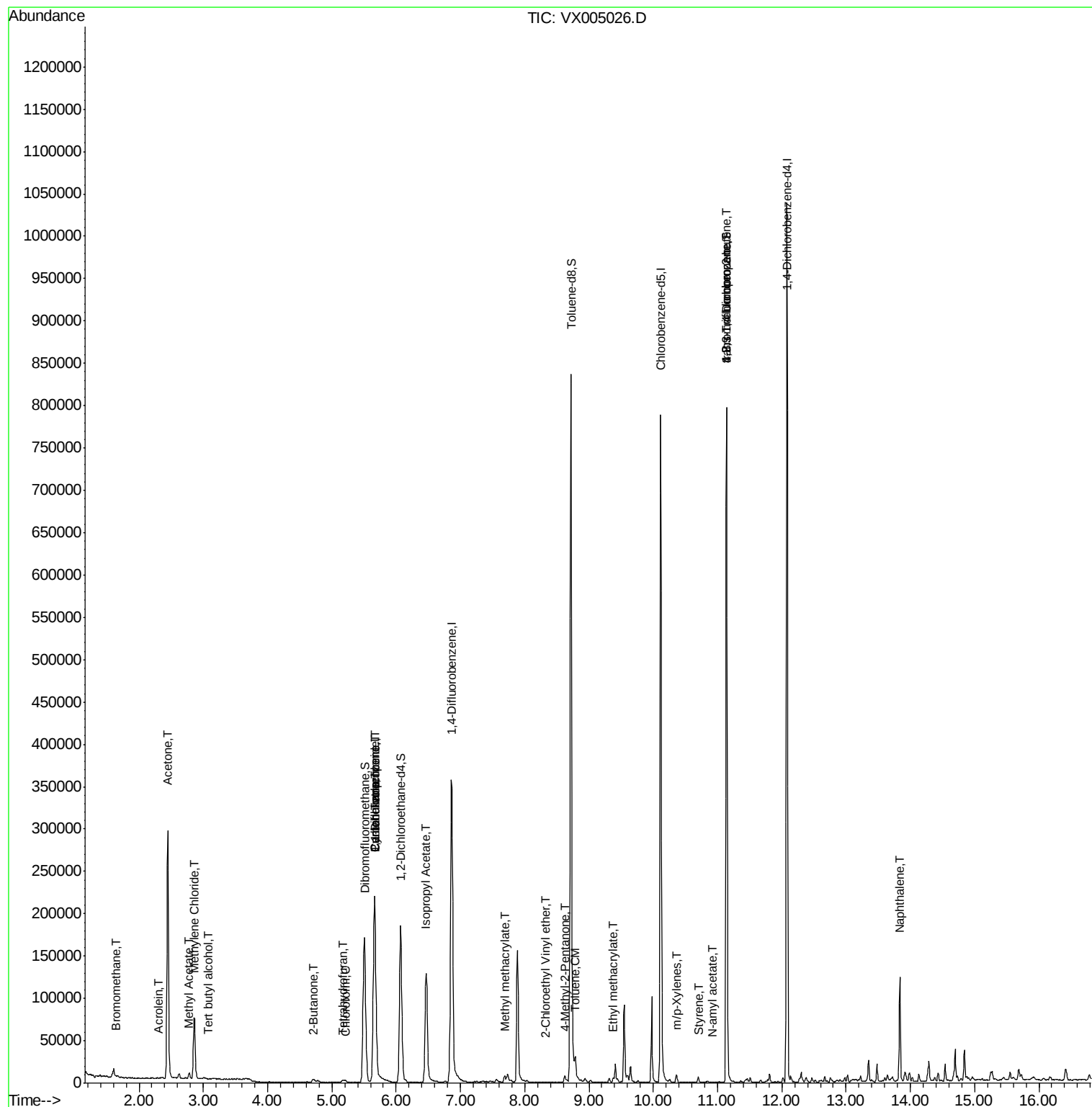
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	390833	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	385407	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216384	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	172930	50.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.38%	
35) Dibromofluoromethane	5.51	113	147465	44.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.04%	
50) Toluene-d8	8.72	98	555393	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	11.14	95	207901	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	538	0.242	ug/l	87
6) Chloroethane	1.73	64	53	Below Cal	#	45
11) Tert butyl alcohol	3.07	59	521	0.541	ug/l #	60
13) Acrolein	2.30	56	138	0.201	ug/l #	10
16) Acetone	2.45	43	310815	154.526	ug/l	92
18) Methyl Acetate	2.78	43	7426	1.457	ug/l	98
20) Methylene Chloride	2.86	84	33960	10.957	ug/l	92
25) 2-Butanone	4.71	43	6467	2.181	ug/l #	85
29) Tetrahydrofuran	5.17	42	2875	1.560	ug/l #	63
30) Chloroform	5.21	83	2016	0.372	ug/l	96
31) Cyclohexane	5.67	56	4196	0.957	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16240	3.593	ug/l #	45
38) Carbon Tetrachloride	5.66	117	21288	4.481	ug/l #	17
43) Isopropyl Acetate	6.46	43	185190	21.388	ug/l	97
48) Methyl methacrylate	7.69	41	8642	2.199	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2364	0.434	ug/l #	37
52) Toluene	8.79	92	5868	0.755	ug/l	100
56) Ethyl methacrylate	9.37	69	142	2.886	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.32	63	22	14.249	ug/l #	49
68) m/p-Xylenes	10.36	106	2149	0.350	ug/l	77
70) Styrene	10.72	104	369	2.174	ug/l #	51
74) N-amyl acetate	10.92	43	92	1.760	ug/l #	10
76) 1,2,3-Trichloropropane	11.14	75	99859	20.590	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1956	Below Cal		95
81) trans-1,4-Dichloro-2-buten	11.14	75	99859	55.911	ug/l #	10
95) Naphthalene	13.83	128	76565	4.912	ug/l	99

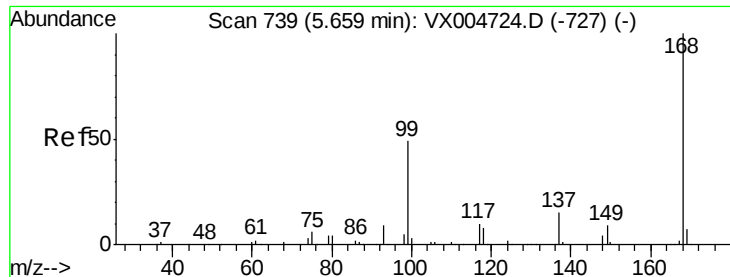
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

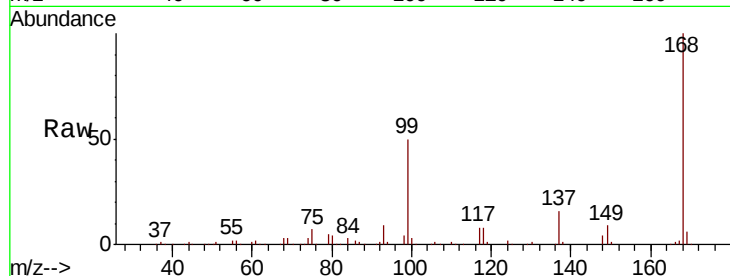
ClientSampled :

Tot Ion:168 Resp: 241180

Ion Ratio Lower Upper

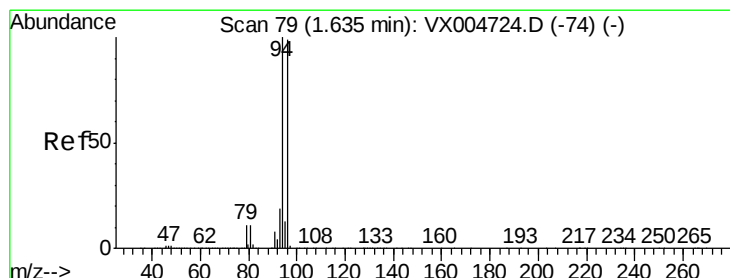
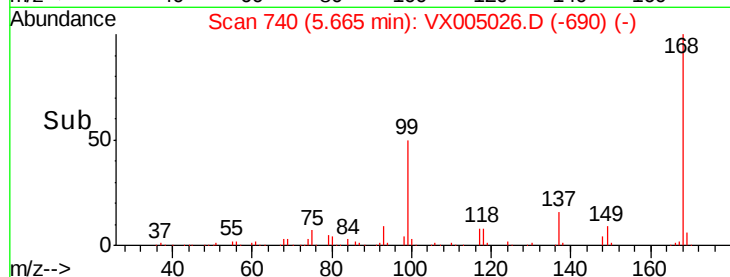
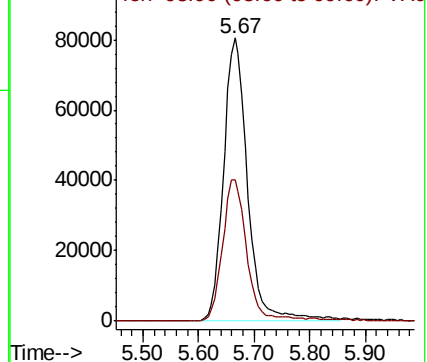
168 100

99 49.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.242 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005026.D

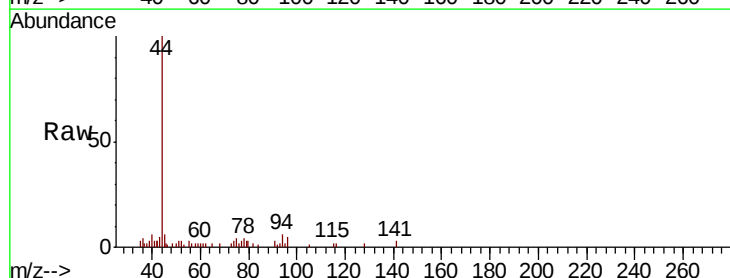
Acq: 04 Oct 2018 18:41

Tgt Ion: 94 Resp: 538

Ion Ratio Lower Upper

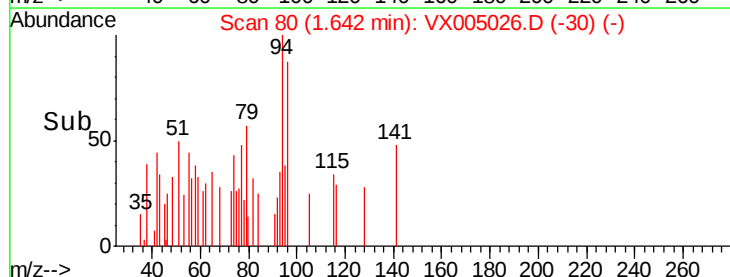
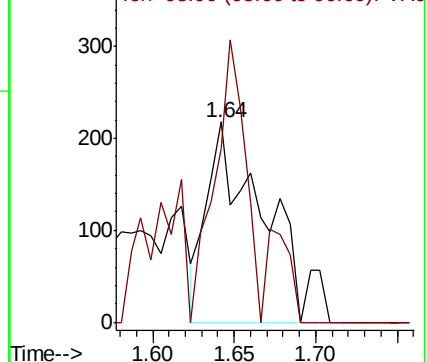
94 100

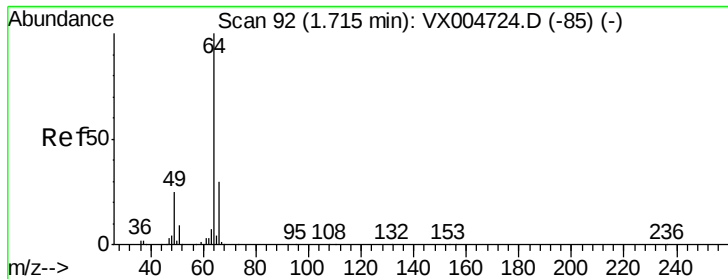
96 86.7 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

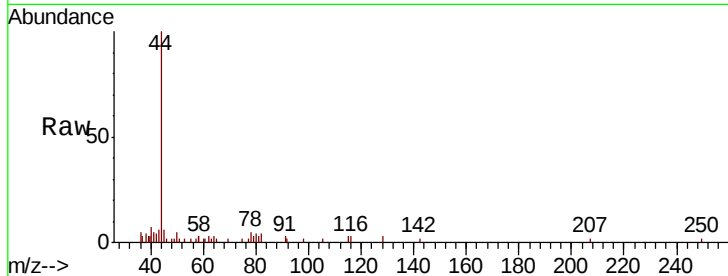
ClientSampled :

Tot Ion: 64 Resp: 53

Ion Ratio Lower Upper

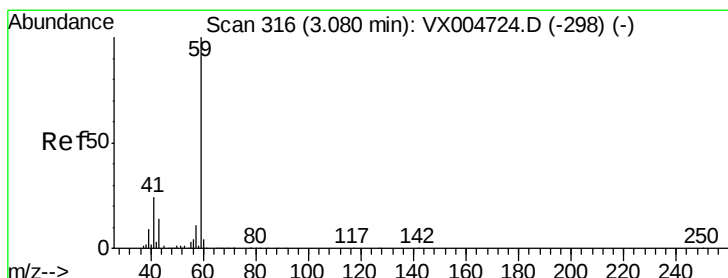
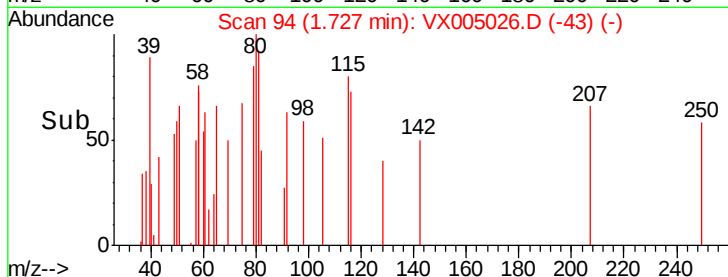
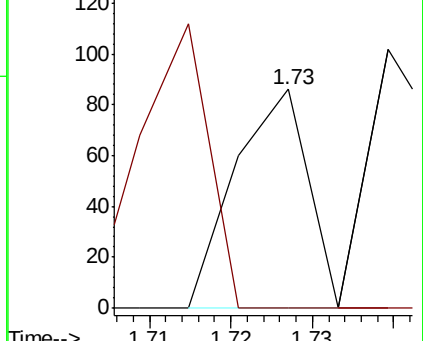
64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.541 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX005026.D

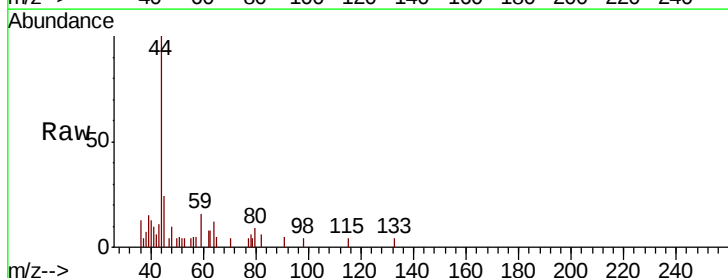
Acq: 04 Oct 2018 18:41

Tgt Ion: 59 Resp: 521

Ion Ratio Lower Upper

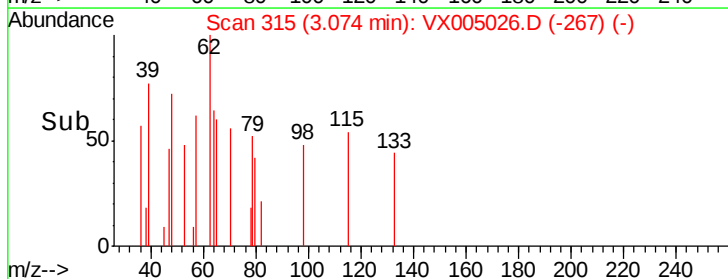
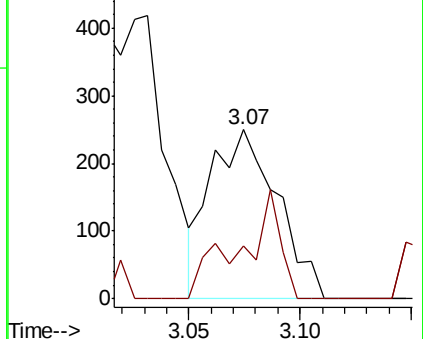
59 100

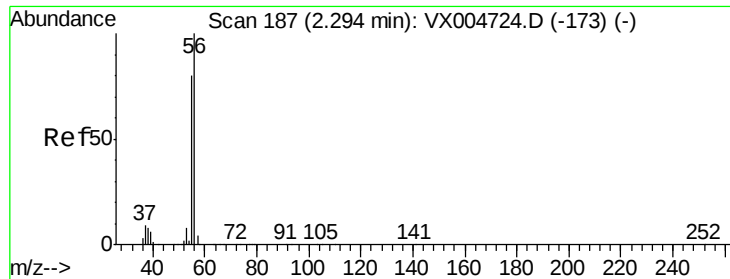
57 25.7 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.201 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

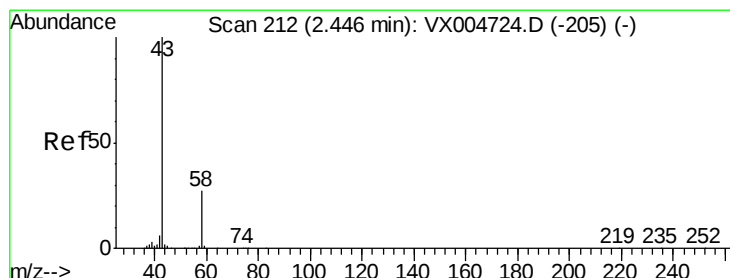
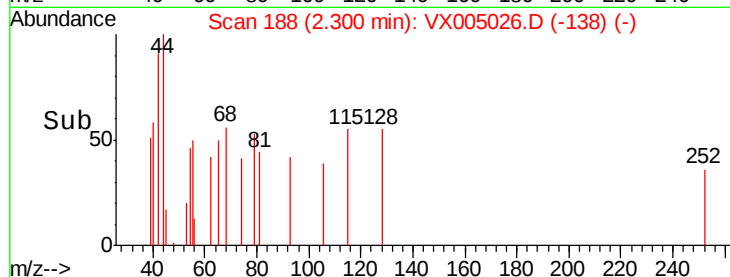
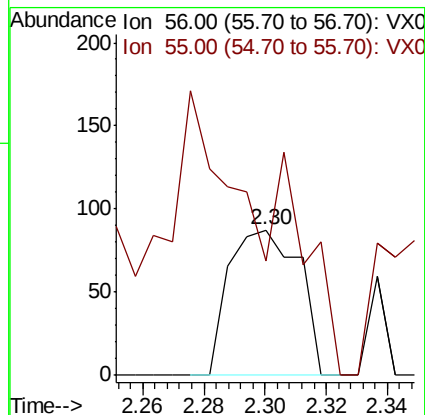
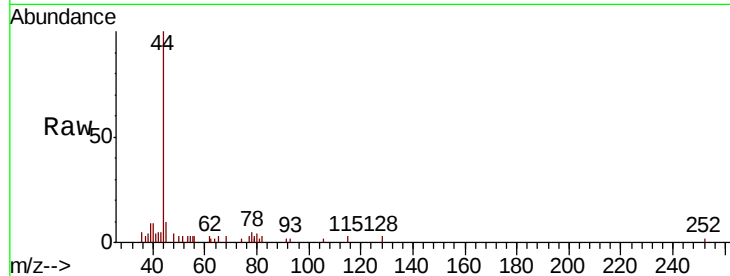
ClientSampled :

Tot Ion: 56 Resp: 138

Ion Ratio Lower Upper

56 100

55 0.0 63.4 95.2#



#16

Acetone

Concen: 154.526 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005026.D

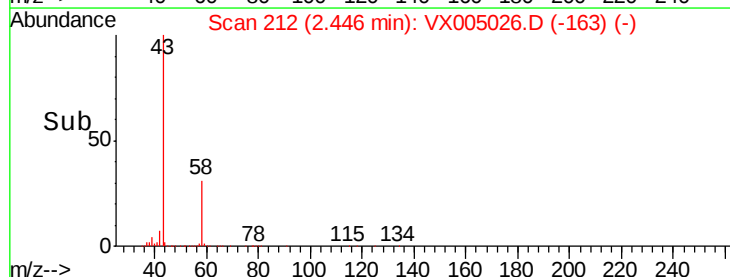
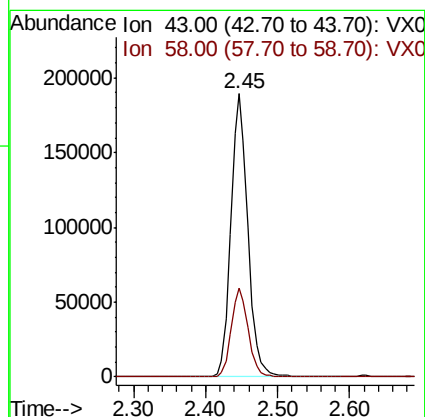
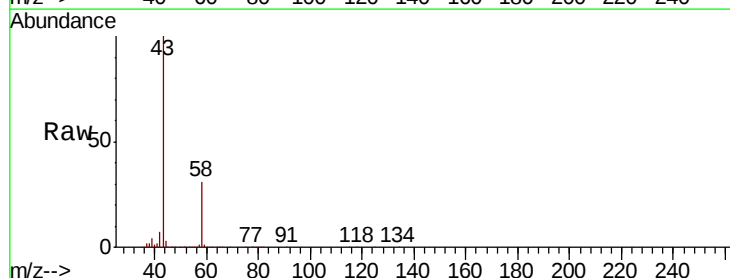
Acq: 04 Oct 2018 18:41

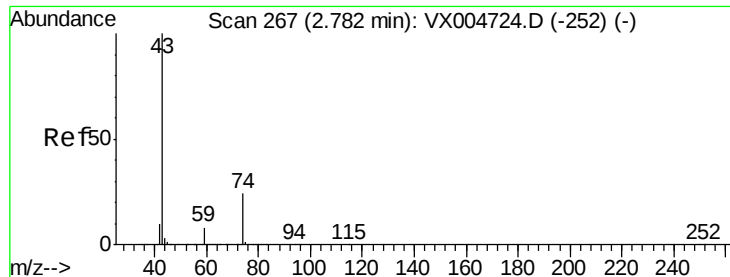
Tgt Ion: 43 Resp: 310815

Ion Ratio Lower Upper

43 100

58 31.3 21.8 32.6

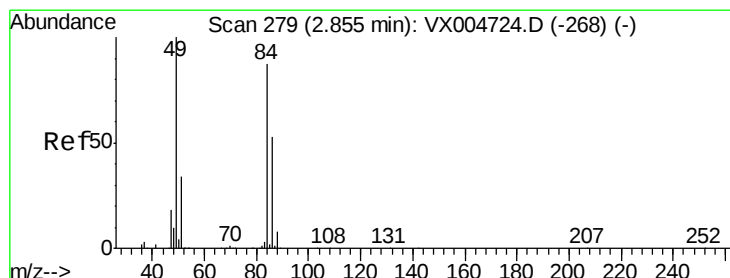
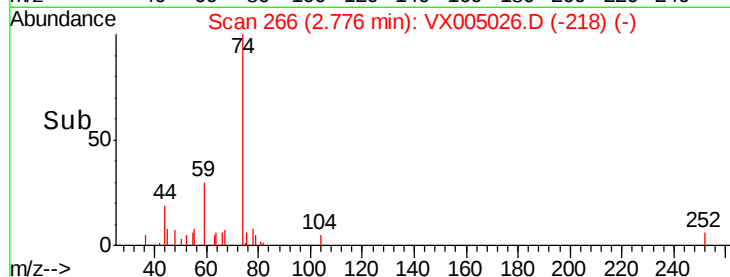
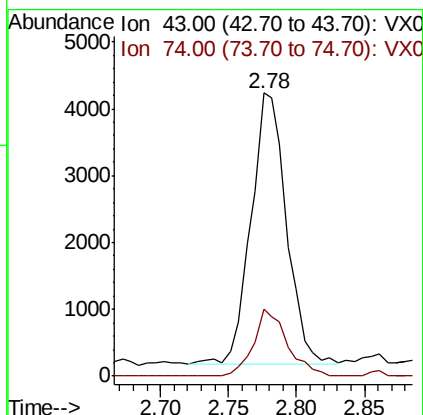
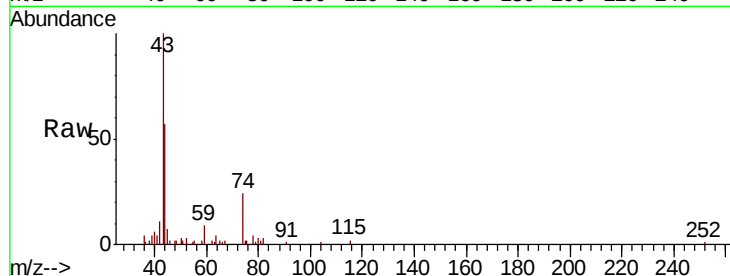




#18
Methvl Acetate
Concen: 1.457 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

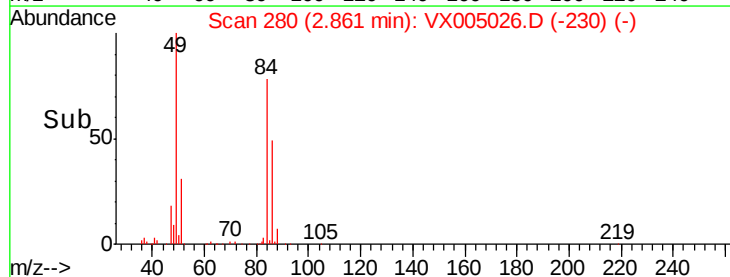
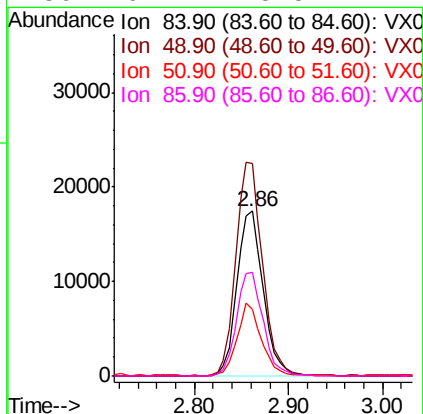
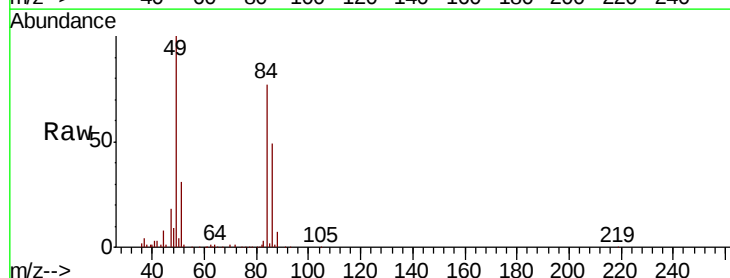
Instrument :
MSVOA_X
ClientSampleId :

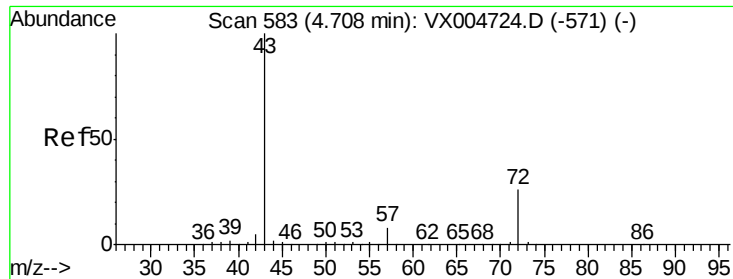
Tot Ion: 43 Resp: 7426
Ion Ratio Lower Upper
43 100
74 23.5 17.8 26.8



#20
Methylene Chloride
Concen: 10.957 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion: 84 Resp: 33960
Ion Ratio Lower Upper
84 100
49 129.3 92.3 138.5
51 40.2 31.8 47.6
86 62.7 48.5 72.7

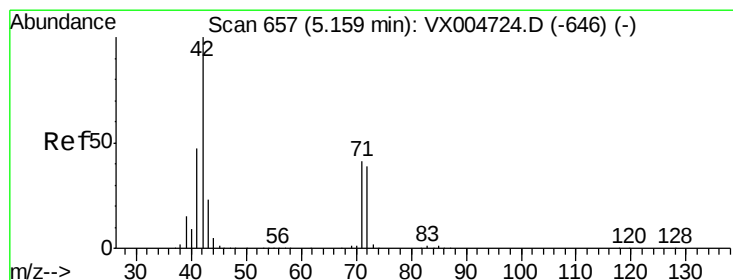
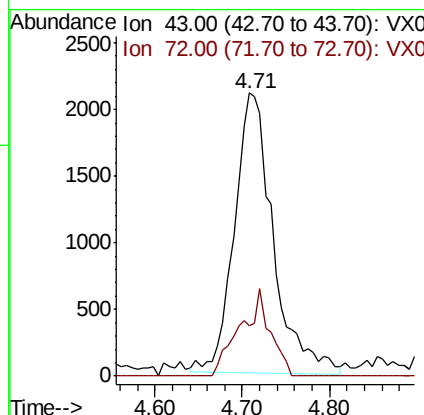
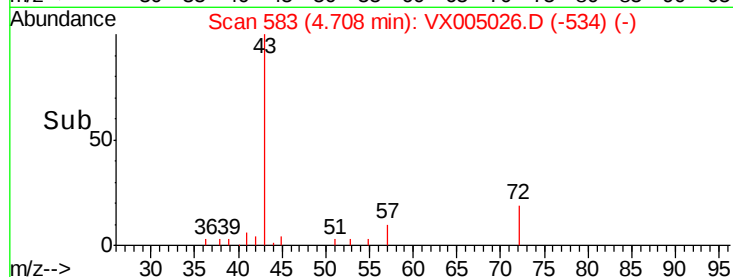
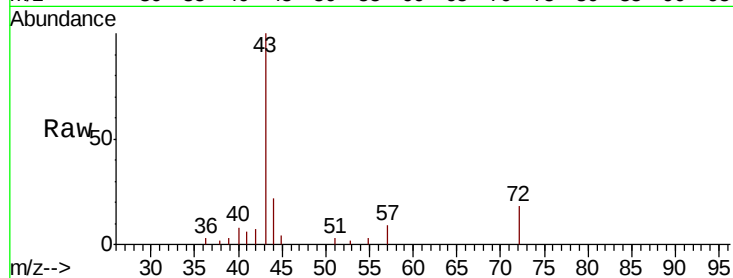




#25
2-Butanone
Concen: 2.181 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

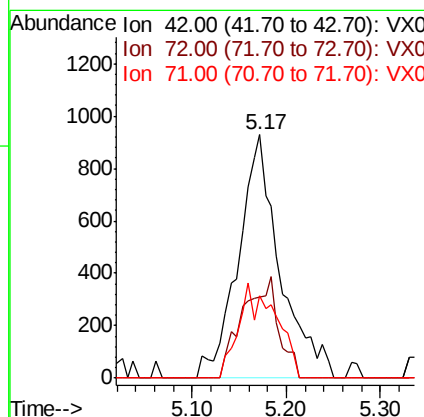
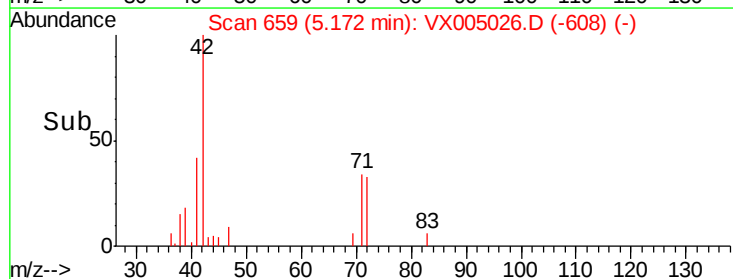
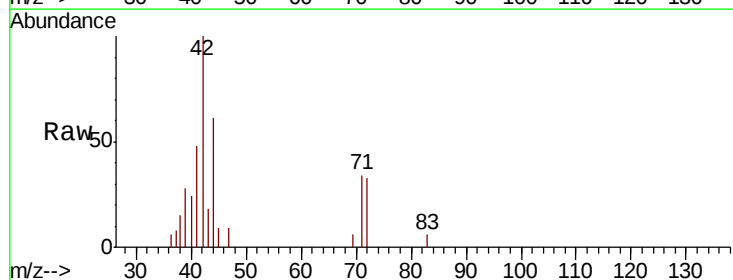
Instrument :
MSVOA_X
ClientSampleId :

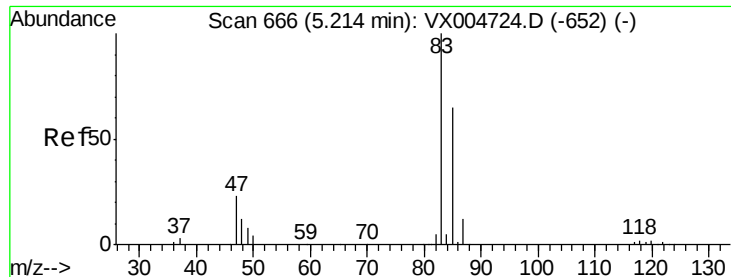
Tot Ion: 43 Resp: 6467
Ion Ratio Lower Upper
43 100
72 18.3 20.8 31.2#



#29
Tetrahydrofuran
Concen: 1.560 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion: 42 Resp: 2875
Ion Ratio Lower Upper
42 100
72 35.9 33.7 50.5
71 0.0 32.2 48.4#

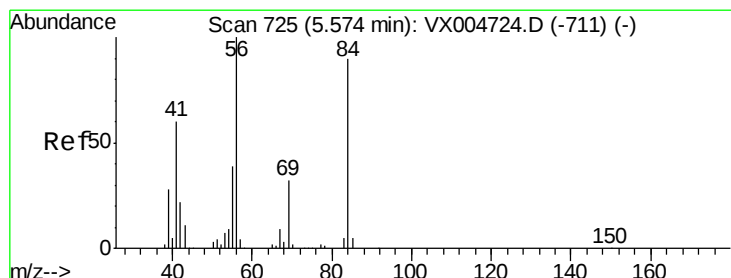
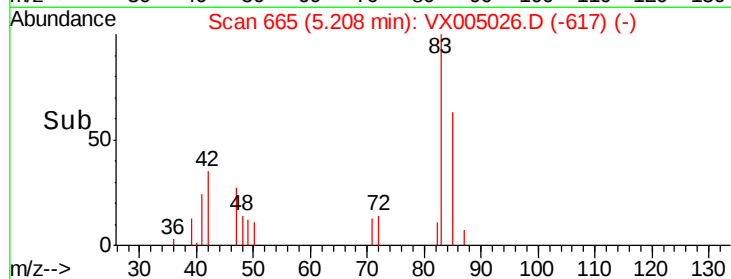
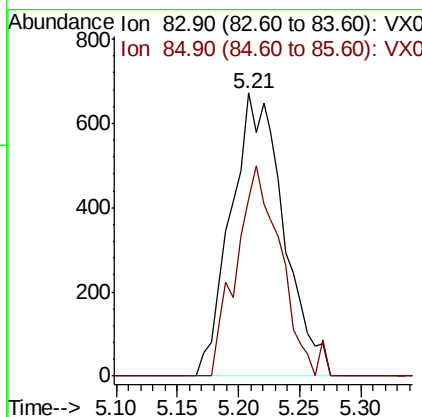
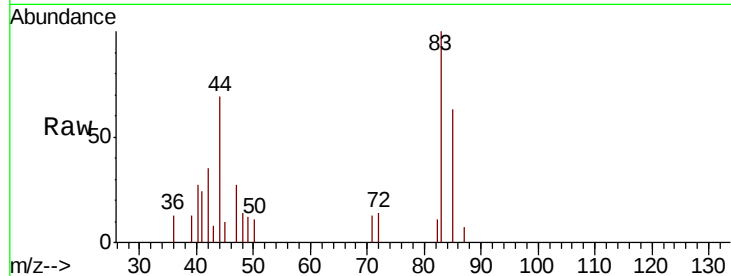




#30
Chloroform
Concen: 0.372 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

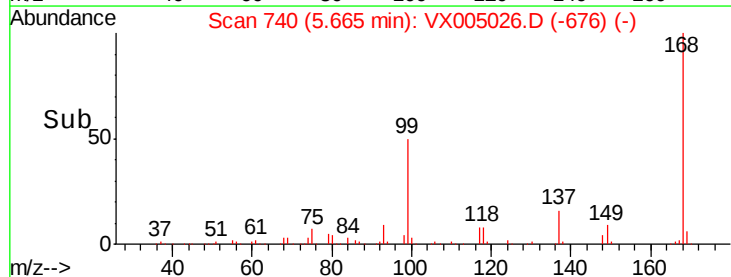
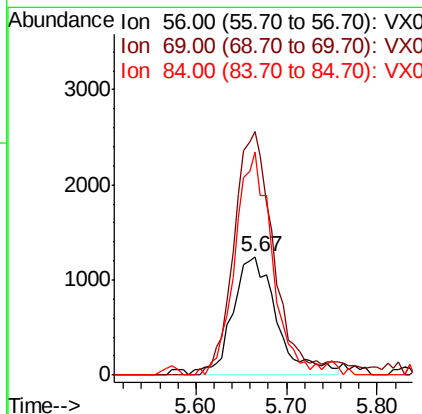
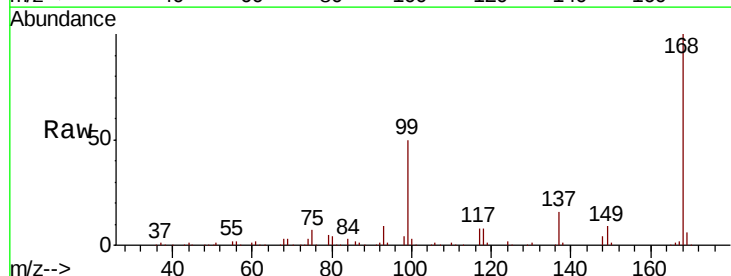
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MSVOA_X
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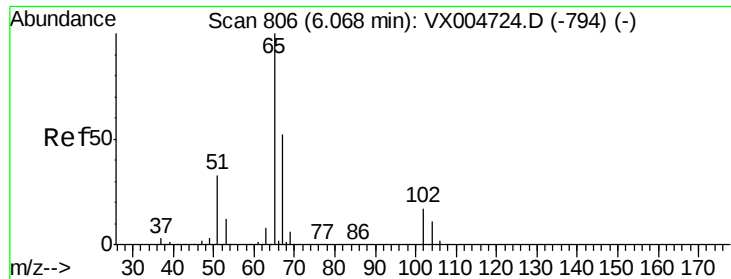
Tot Ion: 83 Resp: 2016
Ion Ratio Lower Upper
83 100
85 62.5 52.4 78.6



#31
Cyclohexane
Concen: 0.957 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion: 56 Resp: 4196
Ion Ratio Lower Upper
56 100
69 205.7 25.9 38.9#
84 188.8 71.9 107.9#

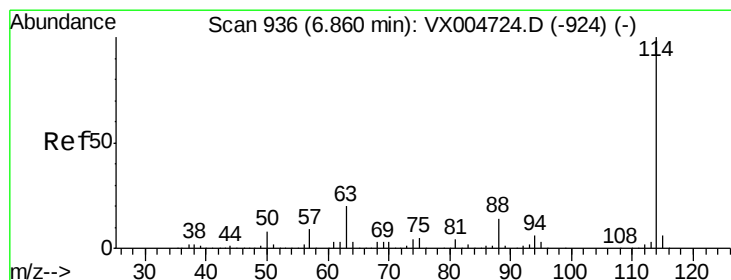
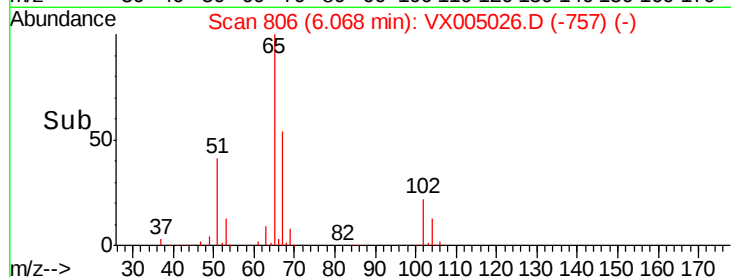
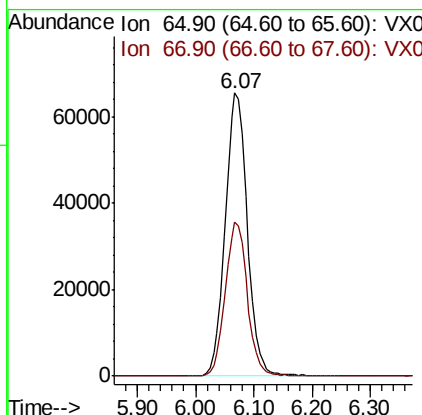
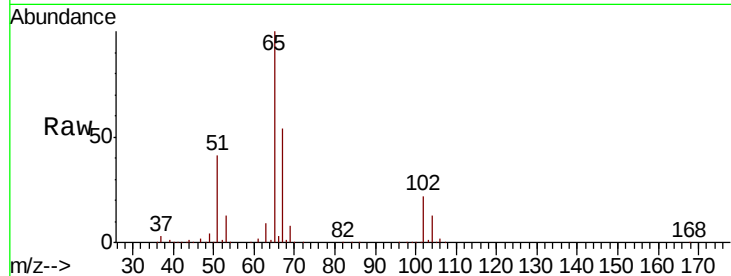




#33
 1,2-Dichloroethane-d4
 Concen: 50.194 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005026.D
 Acq: 04 Oct 2018 18:41

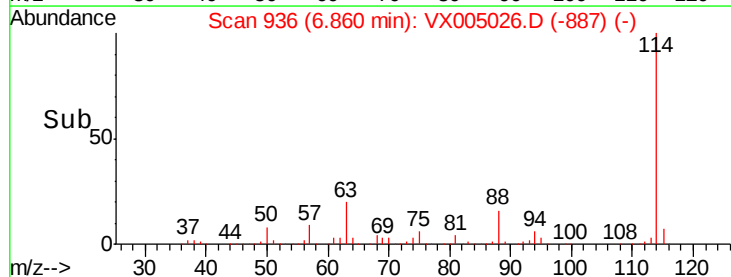
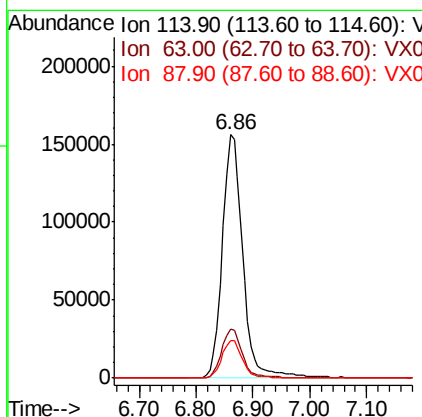
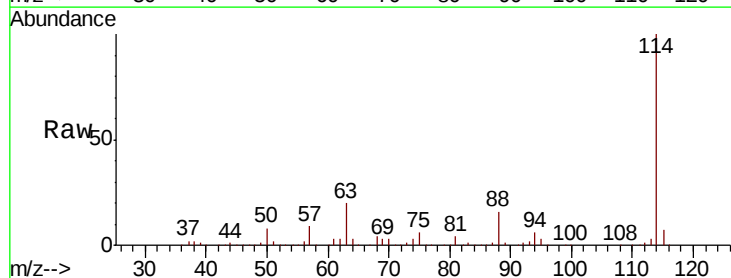
Instrument :
 MSVOA_X
 ClientSampleId :

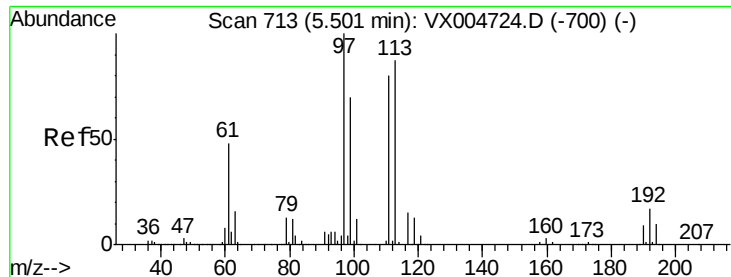
Tot Ion: 65 Resp: 172930
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005026.D
 Acq: 04 Oct 2018 18:41

Tgt Ion: 114 Resp: 390833
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 39.8
 88 15.5 0.0 27.0





#35

Dibromofluoromethane

Concen: 44.520 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :
MSVOA_X
ClientSampleId :

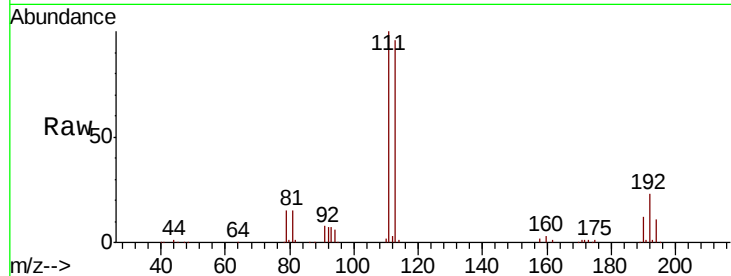
Tot Ion:113 Resp: 147465

Ion Ratio Lower Upper

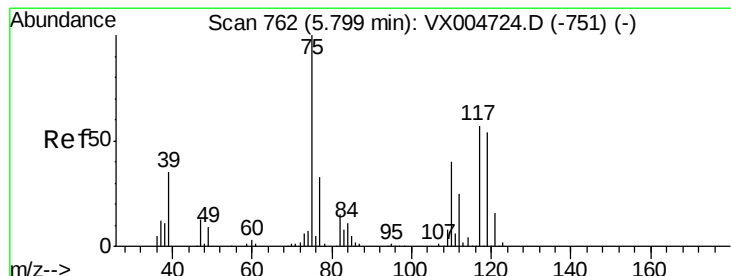
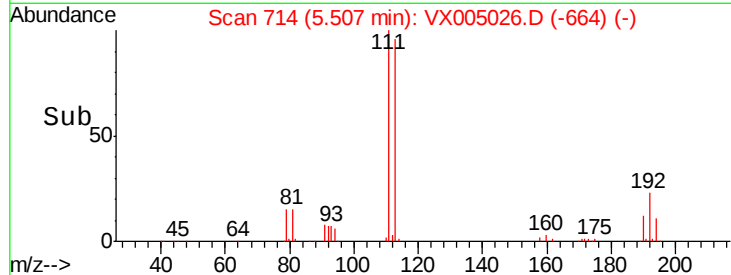
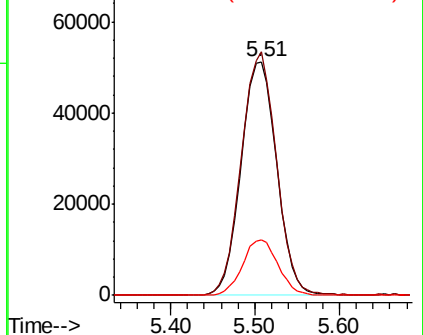
113 100

111 102.4 77.0 115.4

192 23.6 17.0 25.6



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: 3.593 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

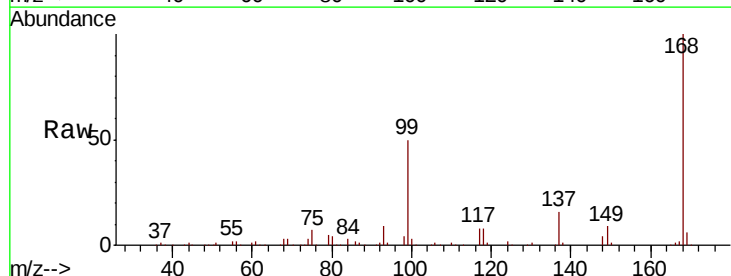
Tgt Ion: 75 Resp: 16240

Ion Ratio Lower Upper

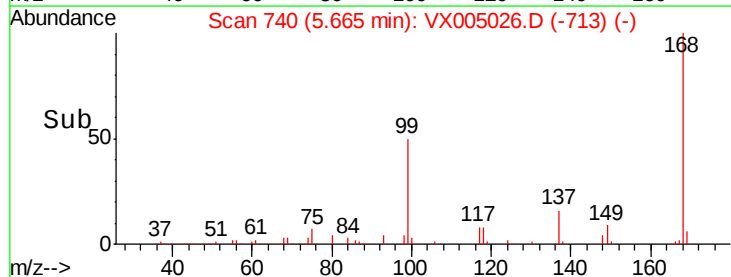
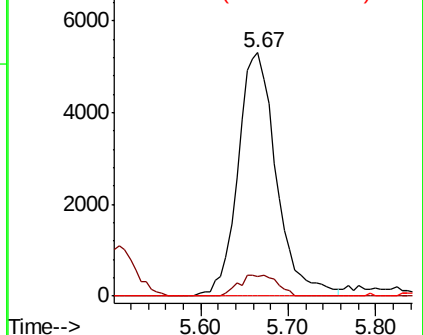
75 100

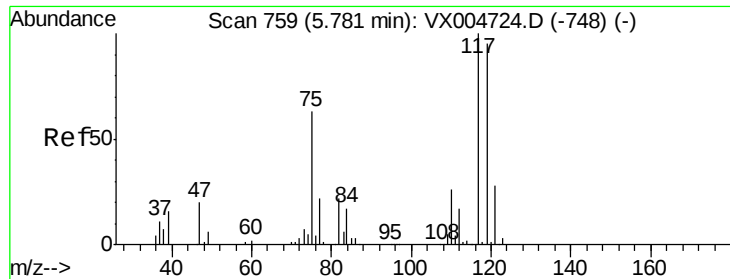
110 8.7 20.0 59.9#

77 0.0 27.1 40.7#



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

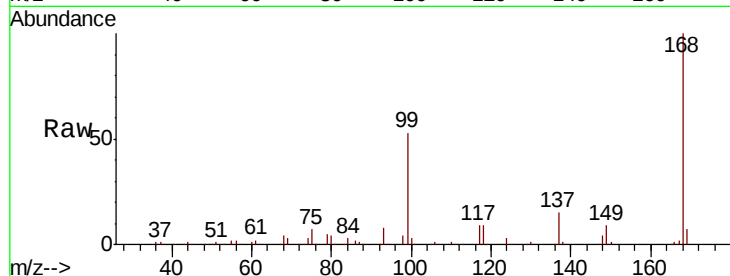




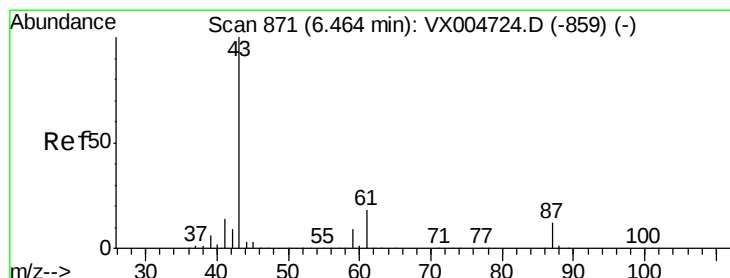
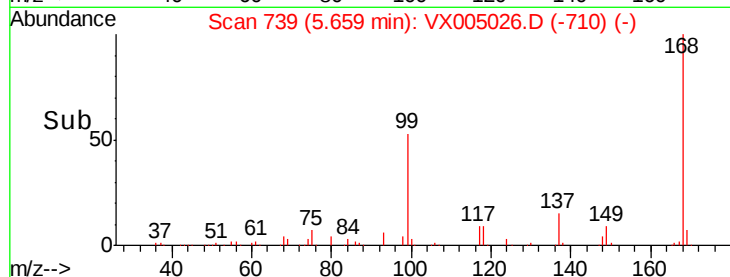
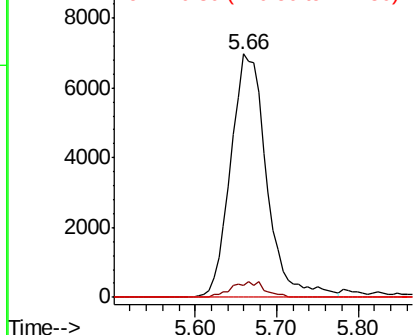
#38
Carbon Tetrachloride
Concen: 4.481 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 21288
Ion Ratio Lower Upper
117 100
119 5.2 75.2 112.8#
121 0.0 22.5 33.7#

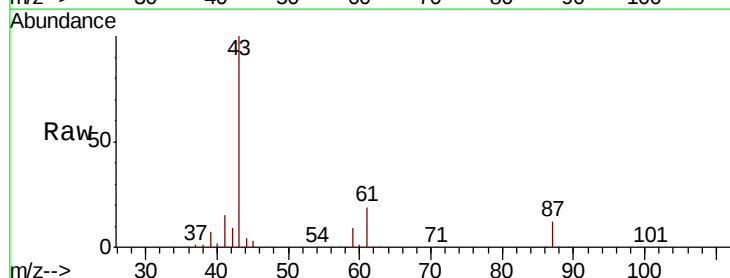


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

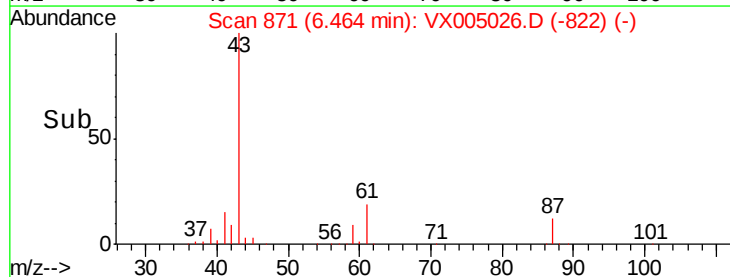
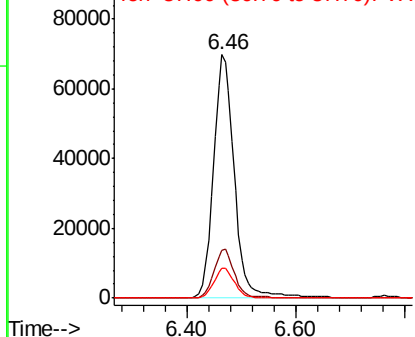


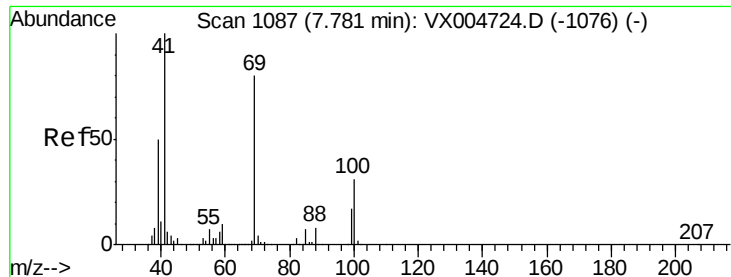
#43
Isopropyl Acetate
Concen: 21.388 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.00 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion: 43 Resp: 185190
Ion Ratio Lower Upper
43 100
61 19.6 14.2 21.4
87 12.3 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

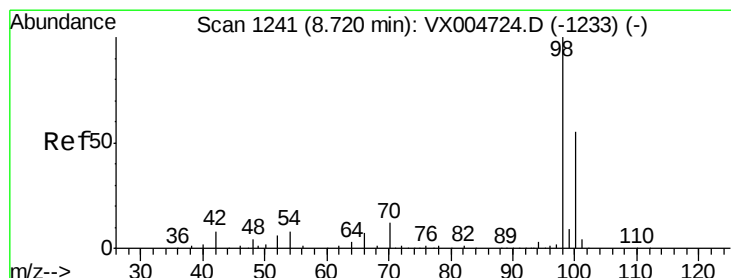
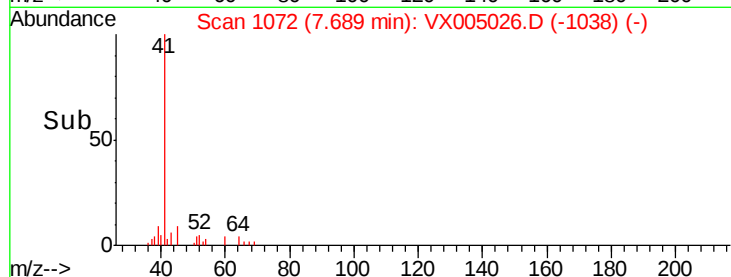
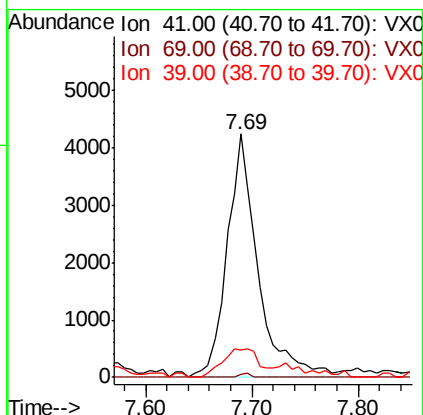
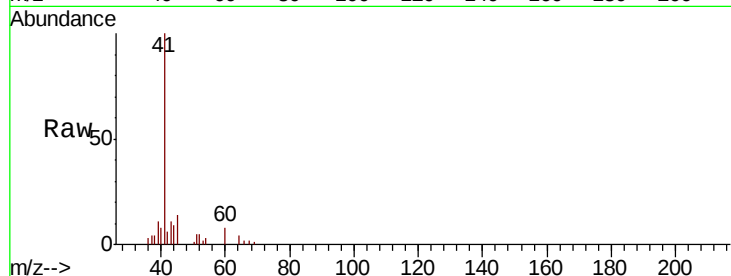




#48
Methyl methacrylate
Concen: 2.199 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

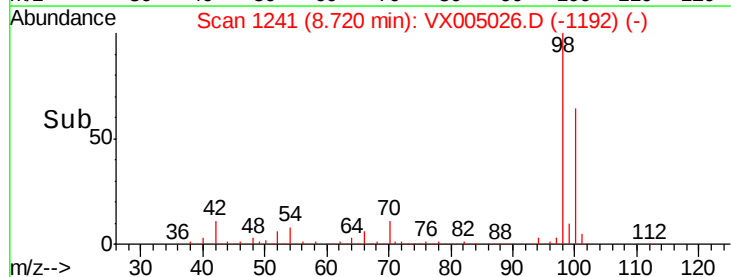
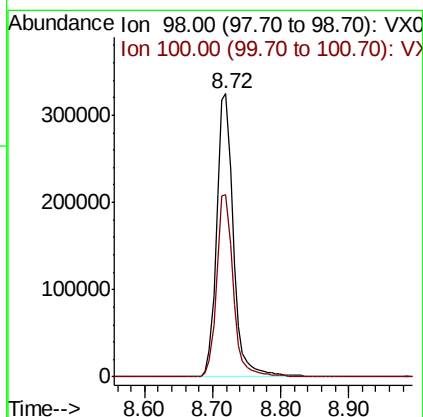
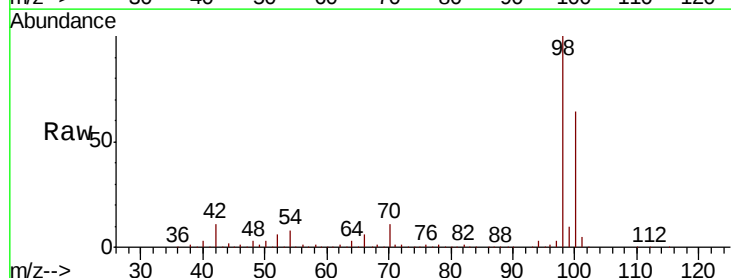
Instrument :
MSVOA_X
ClientSampled :

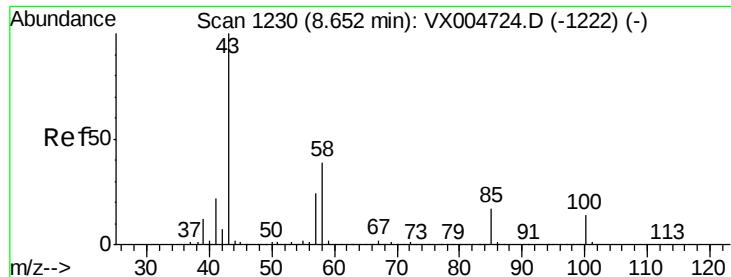
Tot Ion: 41 Resp: 8642
Ion Ratio Lower Upper
41 100
69 0.5 63.8 95.6#
39 13.4 40.7 61.1#



#50
Toluene-d8
Concen: 50.436 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion: 98 Resp: 555393
Ion Ratio Lower Upper
98 100
100 64.2 51.9 77.9





#51

4-Methyl-2-Pentanone

Concen: 0.434 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

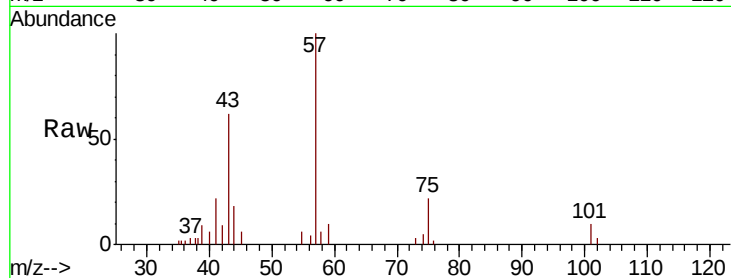
ClientSampled :

Tot Ion: 43 Resp: 2364

Ion Ratio Lower Upper

43 100

58 0.0 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VX004724.D (-1222) (-)

Ion 58.00 (57.70 to 58.70): VX004724.D (-1222) (-)

8.62

1500

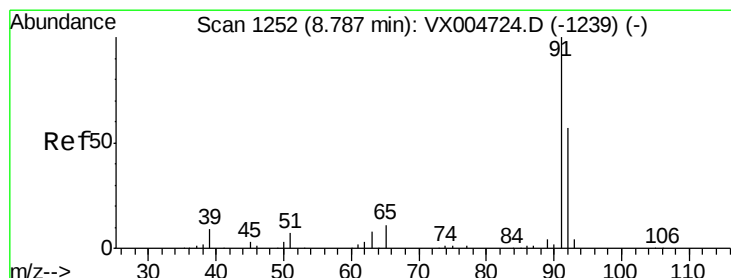
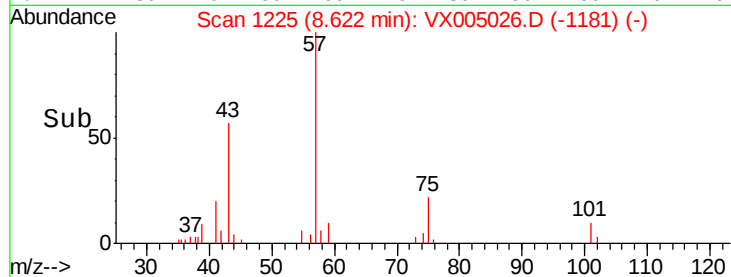
1000

500

0

8.55 8.60 8.65

Time-->



#52

Toluene

Concen: 0.755 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX005026.D

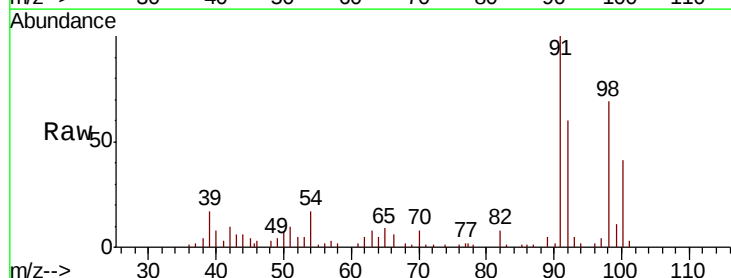
Acq: 04 Oct 2018 18:41

Tgt Ion: 92 Resp: 5868

Ion Ratio Lower Upper

92 100

91 171.4 136.7 205.1



Abundance Ion 92.00 (91.70 to 92.70): VX004724.D (-1239) (-)

Ion 91.00 (90.70 to 91.70): VX004724.D (-1239) (-)

8.79

6000

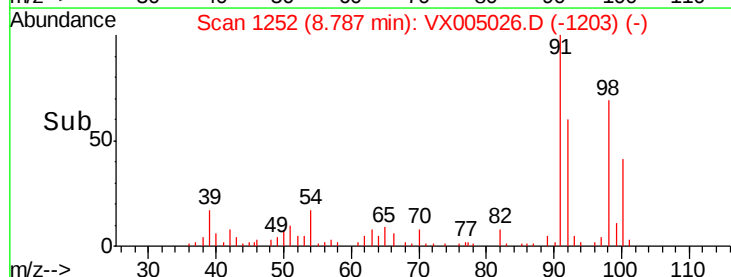
4000

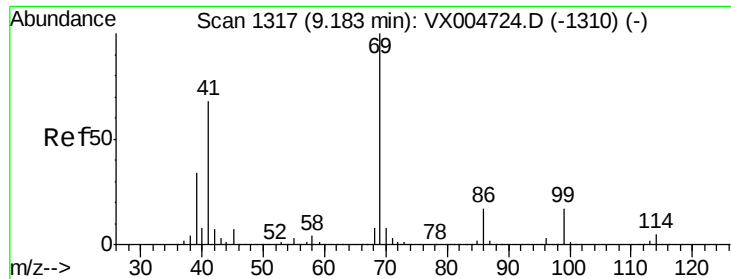
2000

0

8.70 8.75 8.80 8.85

Time-->





#56

Ethyl methacrylate

Concen: 2.886 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.19 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

ClientSampled :

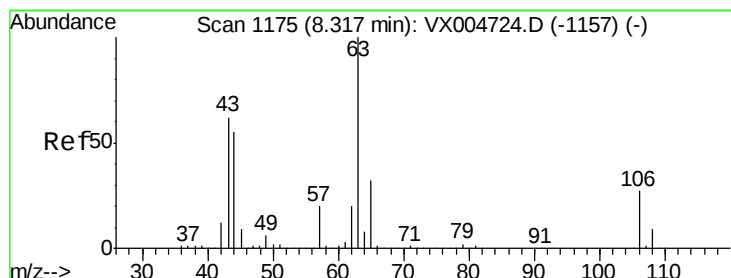
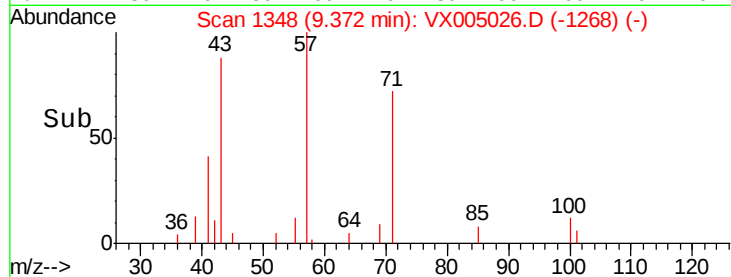
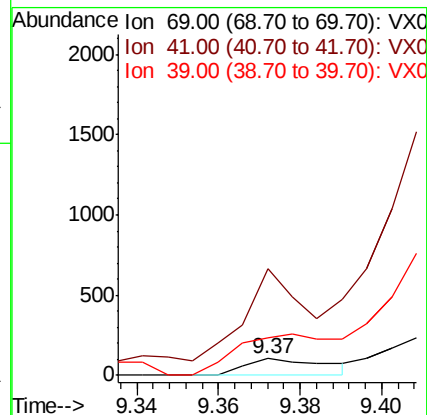
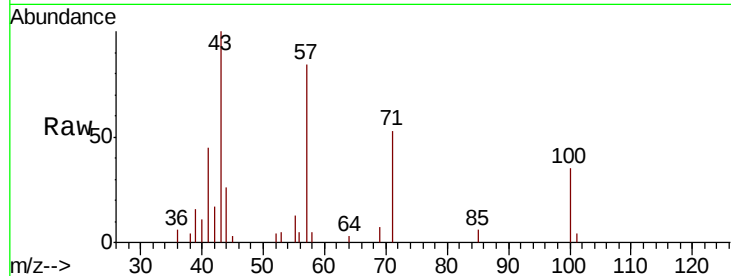
Tot Ion: 69 Resp: 142

Ion Ratio Lower Upper

69 100

41 404.9 56.9 85.3#

39 0.0 28.4 42.6#



#58

2-Chloroethyl Vinyl ether

Concen: 14.249 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX005026.D

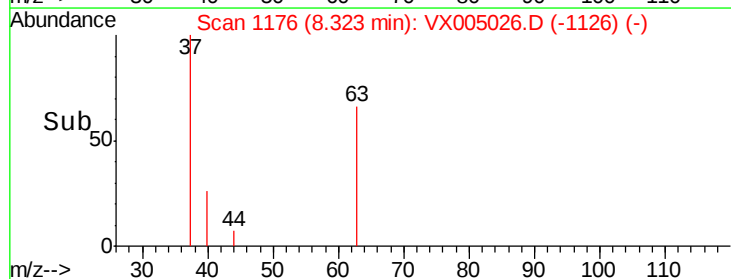
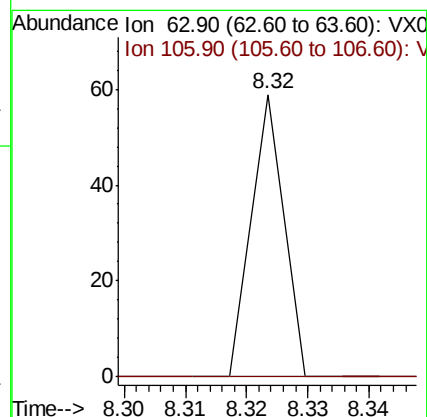
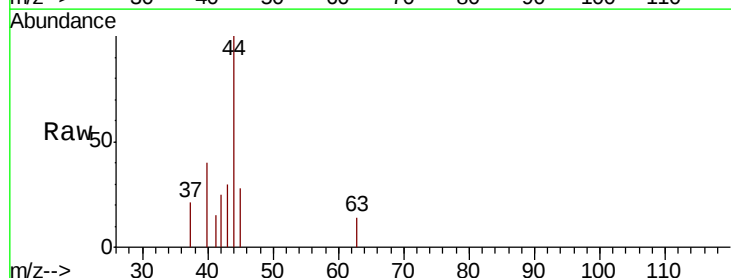
Acq: 04 Oct 2018 18:41

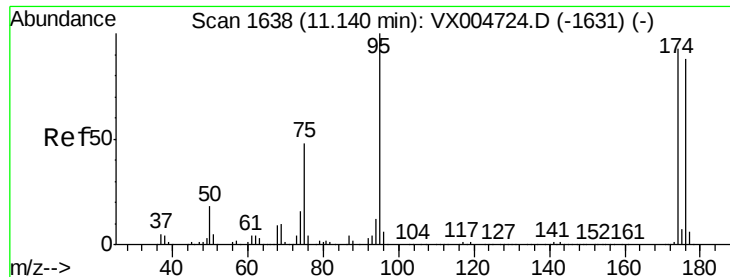
Tgt Ion: 63 Resp: 22

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#





#62

4-Bromofluorobenzene

Concen: 52.406 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

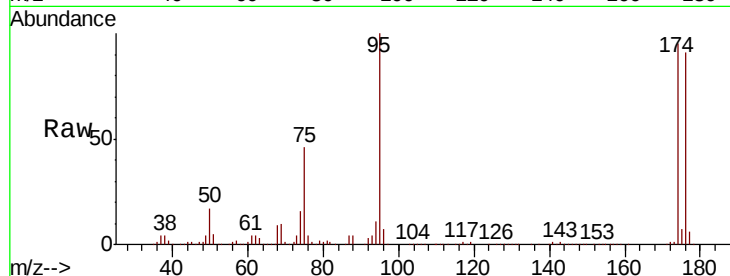
Tot Ion: 95 Resp: 207901

Ion Ratio Lower Upper

95 100

174 92.7 0.0 185.0

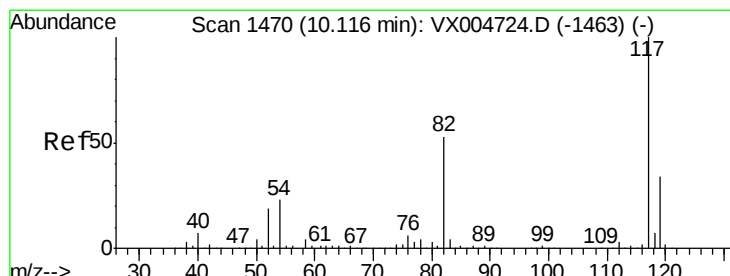
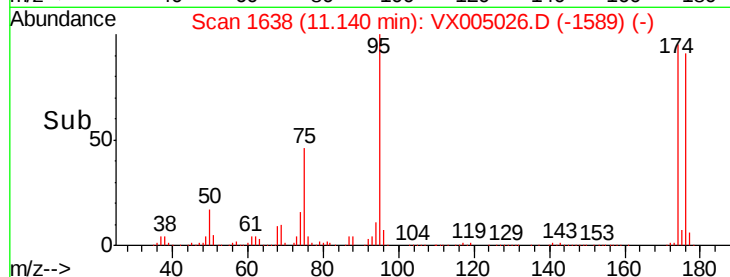
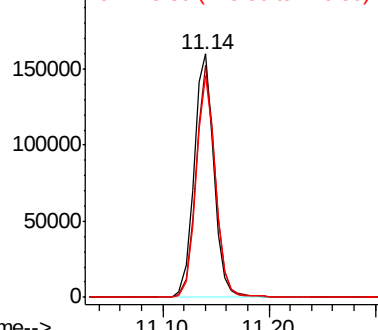
176 89.1 0.0 180.2



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

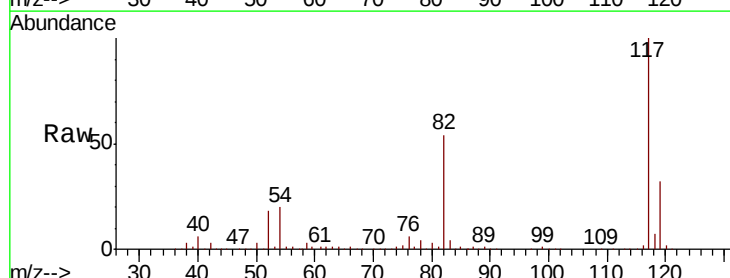
Tgt Ion: 117 Resp: 385407

Ion Ratio Lower Upper

117 100

82 54.0 42.2 63.4

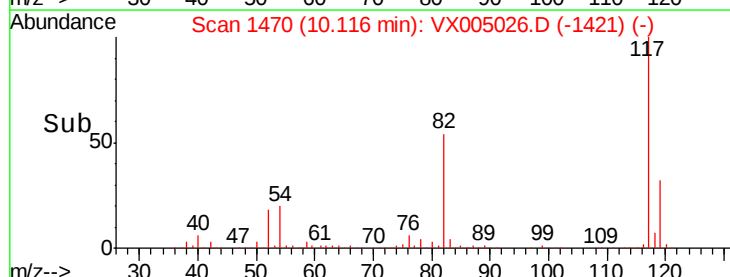
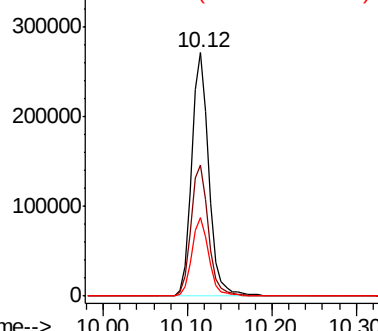
119 32.1 27.4 41.0

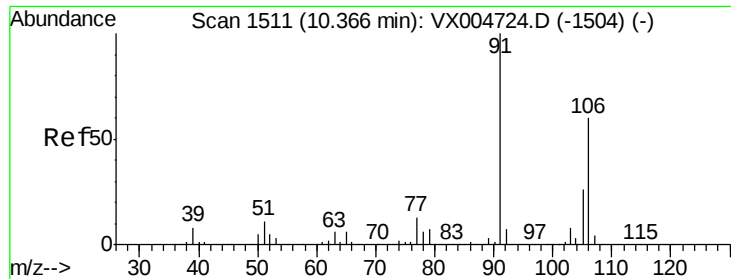


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

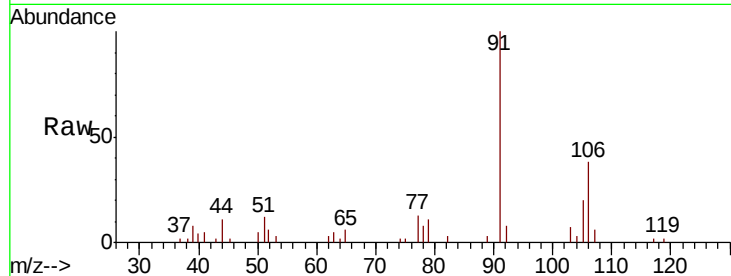




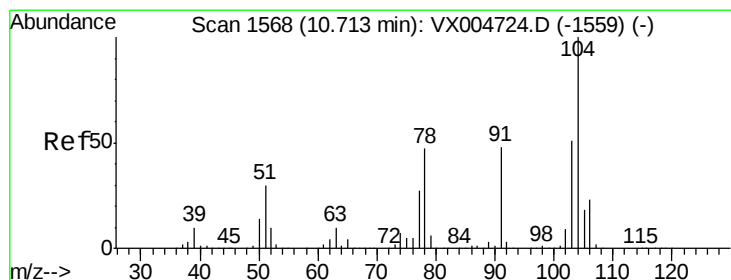
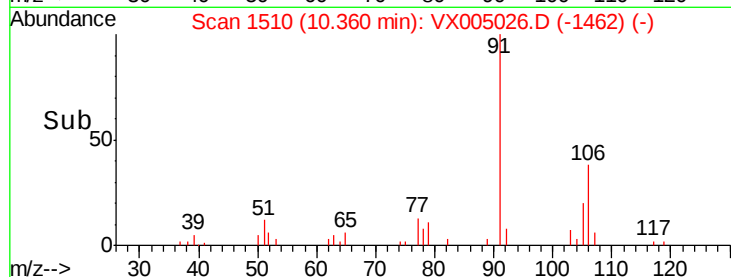
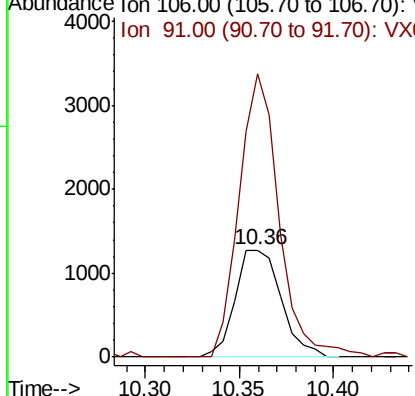
#68
m/p-Xvlenes
Concen: 0.350 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 2149
Ion Ratio Lower Upper
106 100
91 231.1 157.5 236.3

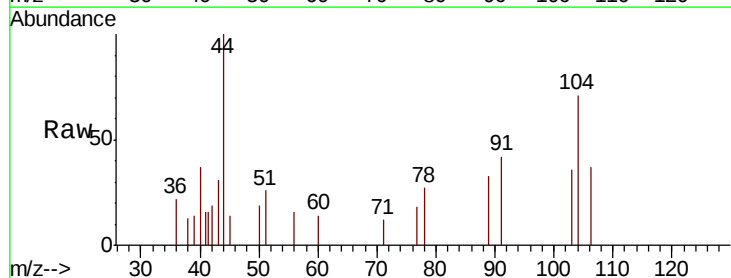


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

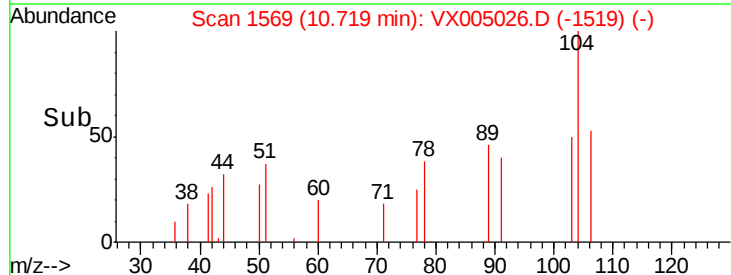
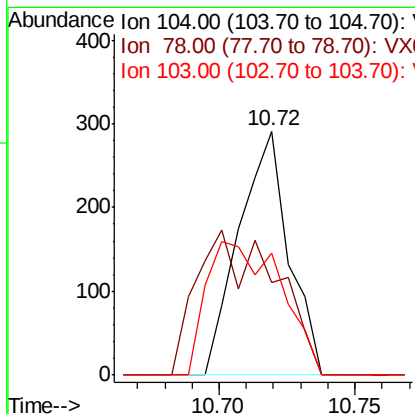


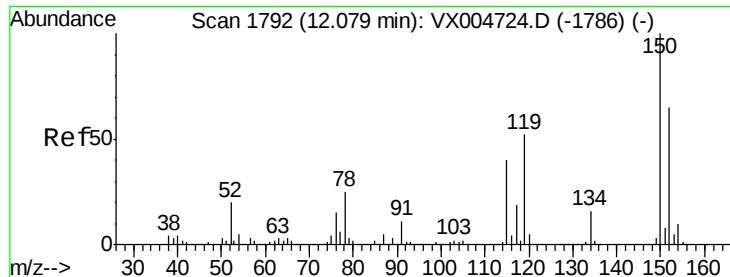
#70
Styrene
Concen: 2.174 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Tgt Ion:104 Resp: 369
Ion Ratio Lower Upper
104 100
78 93.8 40.0 60.0#
103 81.6 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX005026.D

Acq: 04 Oct 2018 18:41

Instrument :

MSVOA_X

ClientSampleId :

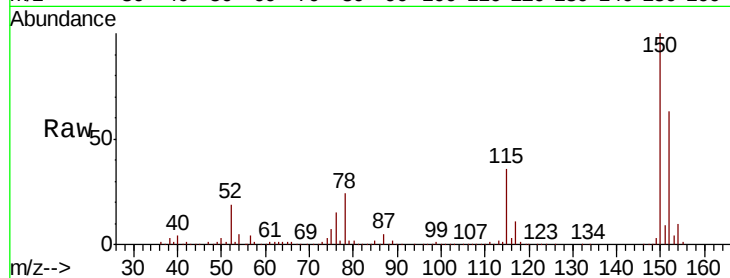
Tot Ion:152 Resp: 216384

Ion Ratio Lower Upper

152 100

115 55.3 40.2 120.6

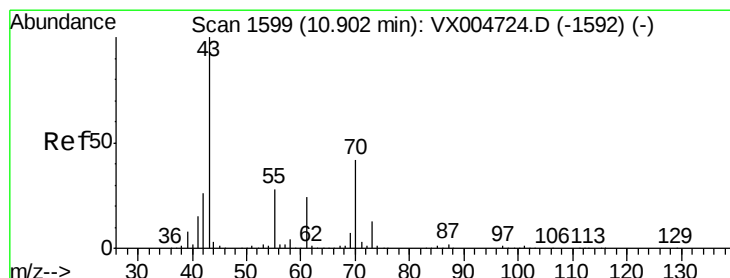
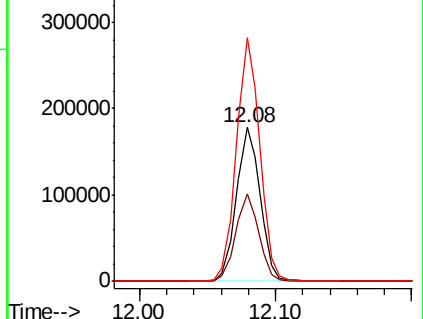
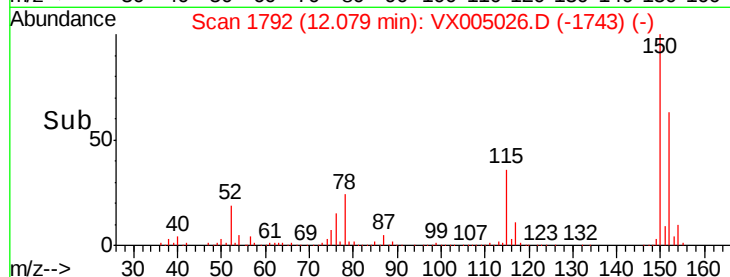
150 156.1 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.760 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005026.D

Acq: 04 Oct 2018 18:41

Tgt Ion: 43 Resp: 92

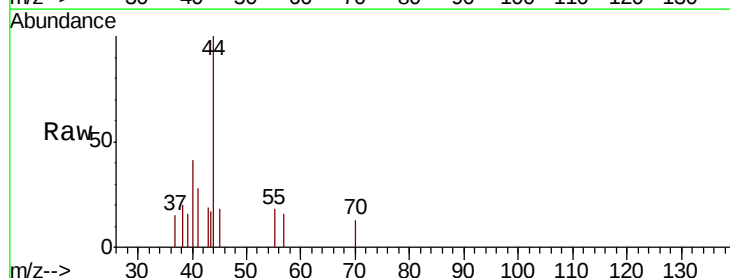
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 112.0 21.6 32.4#

61 0.0 19.1 28.7#

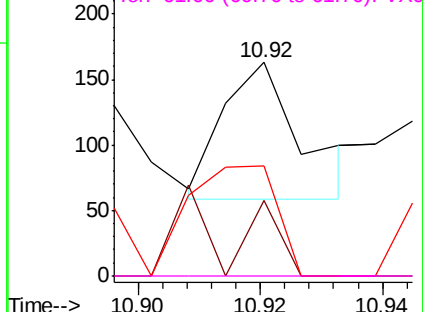
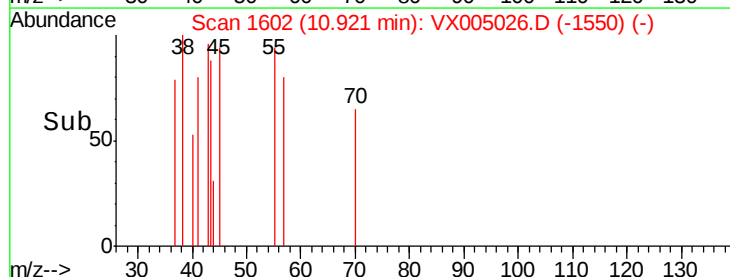


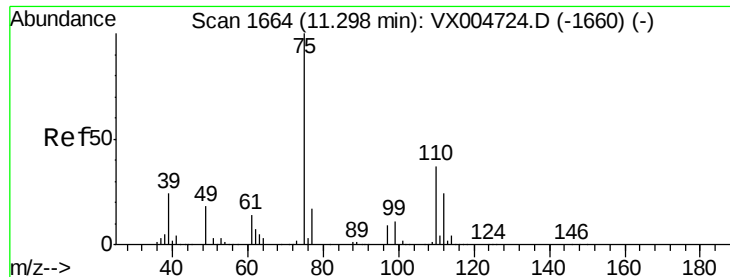
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

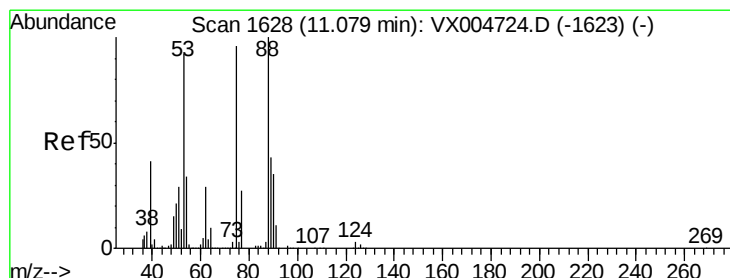
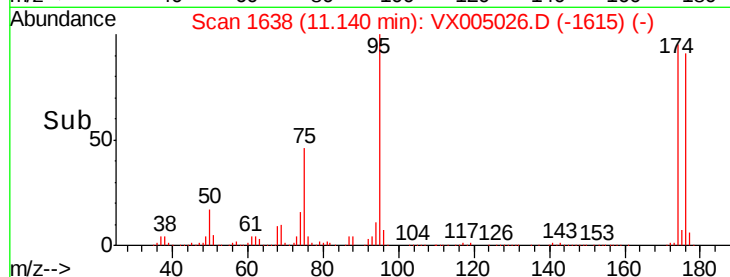
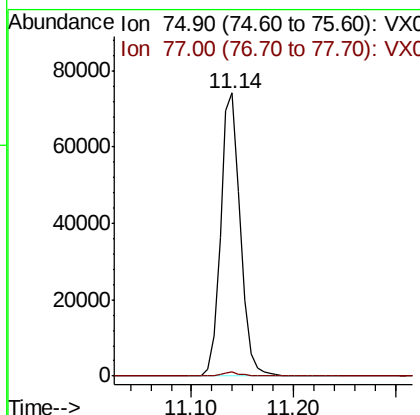
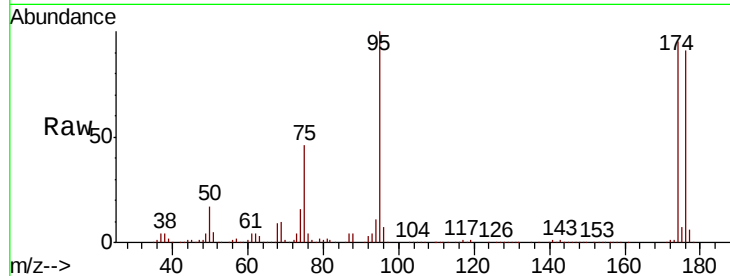




#76
 1,2,3-Trichloropropane
 Concen: 20.590 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005026.D
 Acq: 04 Oct 2018 18:41

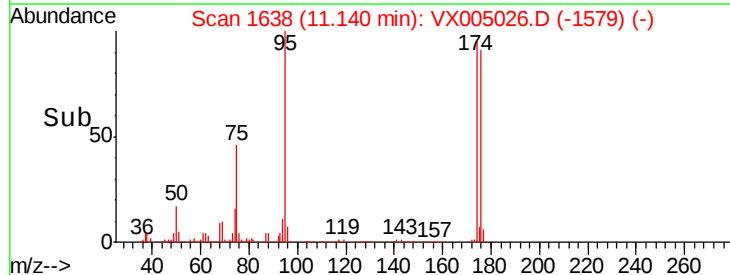
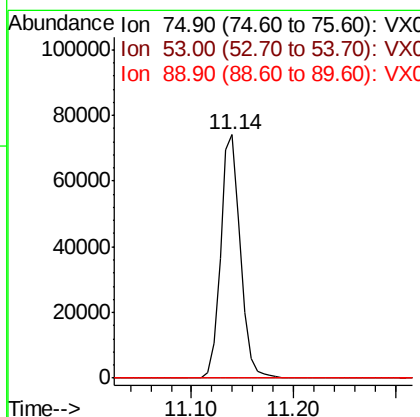
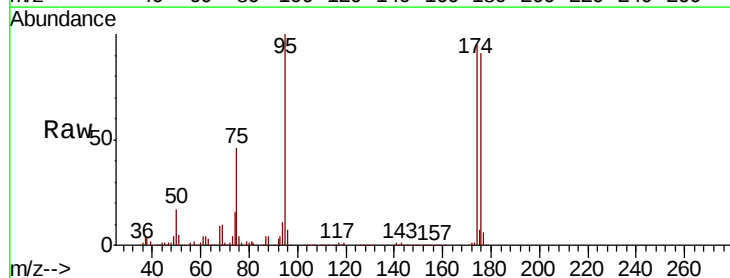
Instrument :
 MSVOA_X
 ClientSampleId :

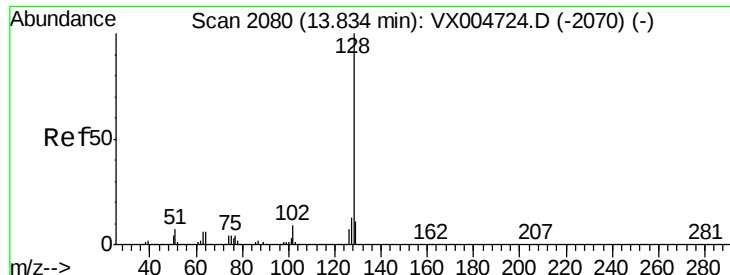
Tot Ion: 75 Resp: 99859
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.911 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005026.D
 Acq: 04 Oct 2018 18:41

Tgt Ion: 75 Resp: 99859
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.2 120.4#
 89 0.0 37.1 55.7#

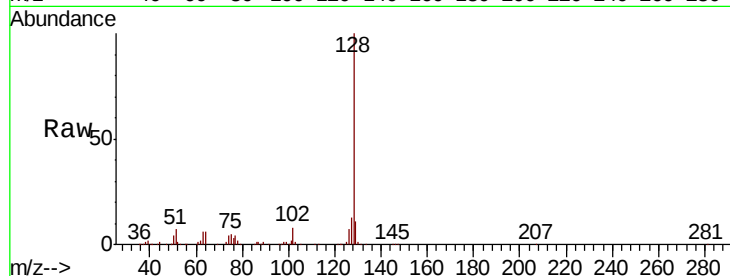




#95
Naphthalene
Concen: 4.912 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005026.D
Acq: 04 Oct 2018 18:41

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.3	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

