

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052292.D
 Acq On : 13 Nov 2018 17:43
 Operator : MD\SY
 Sample : PB114744ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:10:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	325588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	546260	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466219	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158269	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	220700	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
35) Dibromofluoromethane	7.59	113	173399	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
50) Toluene-d8	10.09	98	682604	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	12.40	95	196511	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	

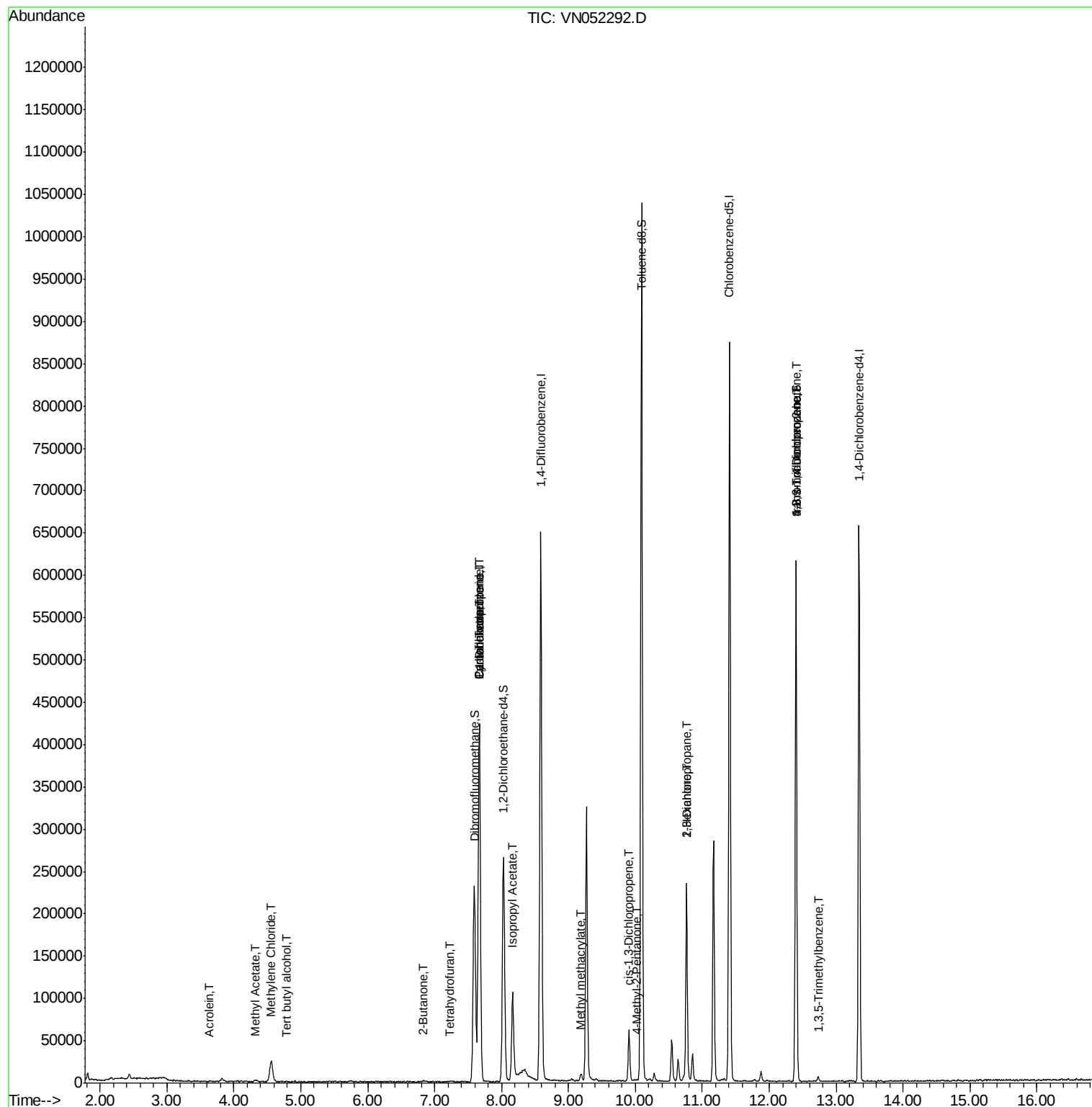
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	63	0.276	ug/l #	71
13) Acrolein	3.63	56	58	34.241	ug/l #	12
16) Acetone	3.82	43	3063	Below Cal		97
18) Methyl Acetate	4.33	43	2143	0.576	ug/l	97
20) Methylene Chloride	4.56	84	17078	4.207	ug/l	95
25) 2-Butanone	6.83	43	395	0.208	ug/l #	52
29) Tetrahydrofuran	7.22	42	380	0.307	ug/l #	40
31) Cyclohexane	7.67	56	8897	0.611	ug/l #	21
36) 1,1-Dichloropropene	7.67	75	27781	5.039	ug/l #	53
38) Carbon Tetrachloride	7.66	117	34400	6.885	ug/l #	17
43) Isopropyl Acetate	8.17	43	134340	18.585	ug/l	96
48) Methyl methacrylate	9.18	41	4735	1.243	ug/l #	15
51) 4-Methyl-2-Pentanone	10.02	43	1468	0.368	ug/l #	40
54) cis-1,3-Dichloropropene	9.91	75	9842	1.610	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	2367	0.384	ug/l #	43
59) 2-Hexanone	10.76	43	36204	12.919	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	109191	38.994	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2059	0.200	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	109191	133.104	ug/l #	8

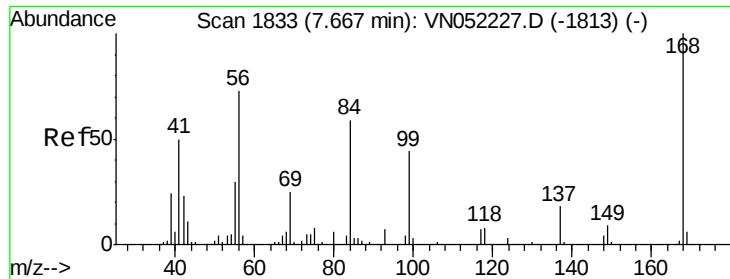
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Nov 14 00:10:13 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

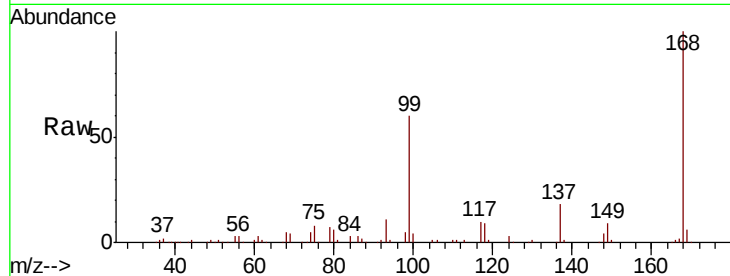
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 325588

Ion Ratio Lower Upper

168 100

99 60.3 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

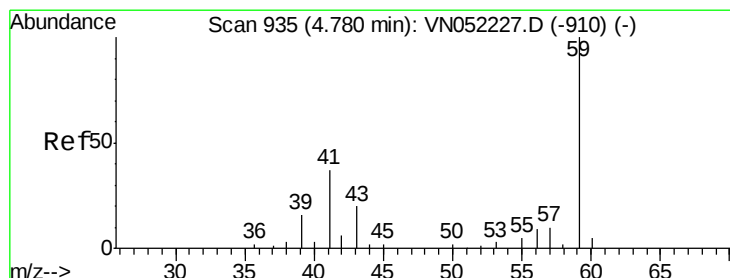
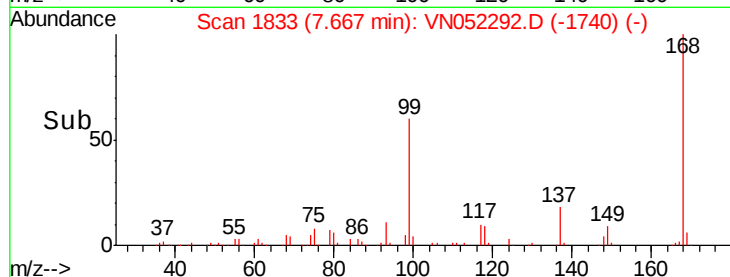
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.276 ug/l

RT: 4.80 min Scan# 941

Delta R.T. 0.02 min

Lab File: VN052292.D

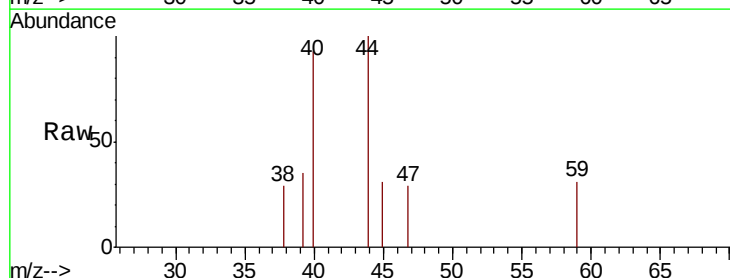
Acq: 13 Nov 2018 17:43

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

200

150

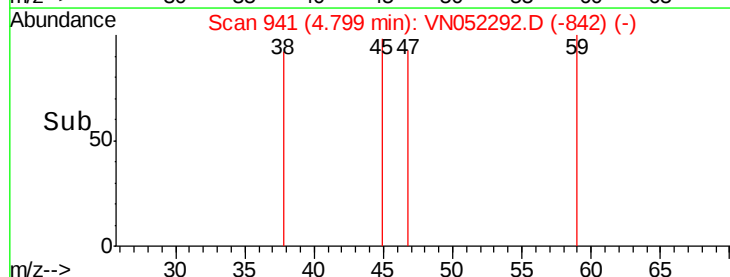
100

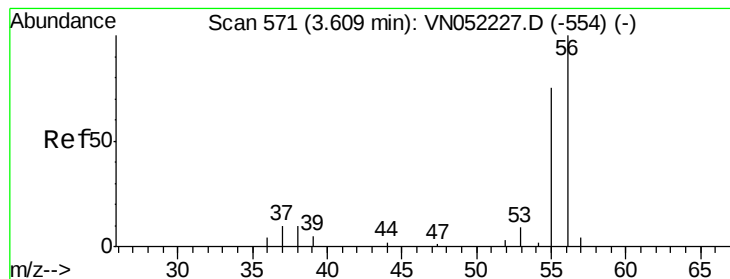
50

0

Time-->

4.79 4.80 4.81





#13

Acrolein

Concen: 34.241 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

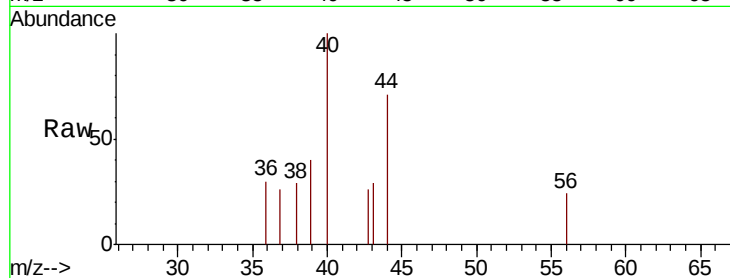
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 58

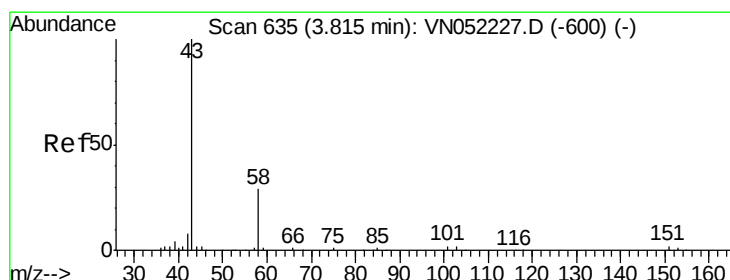
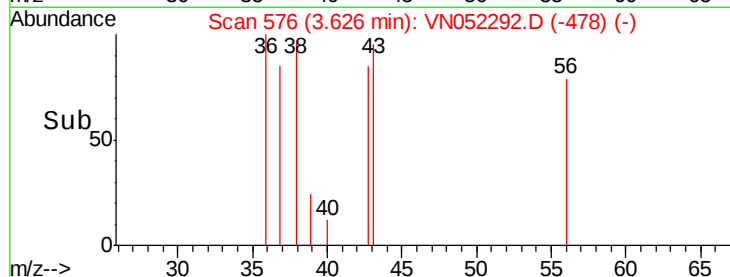
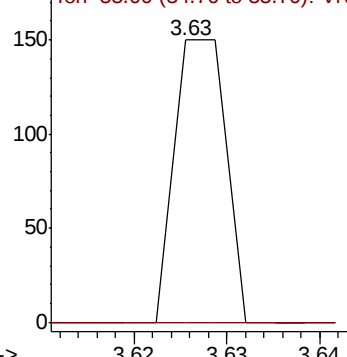
Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN052292.D (-554) (-)



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052292.D

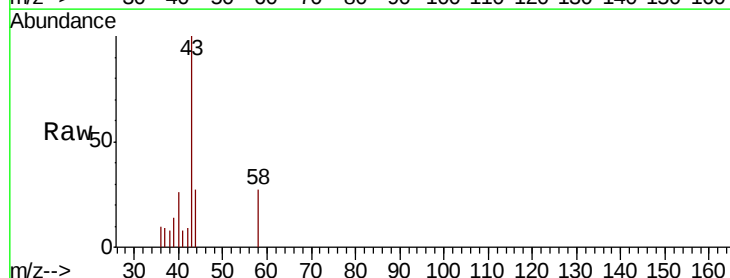
Acq: 13 Nov 2018 17:43

Tgt Ion: 43 Resp: 3063

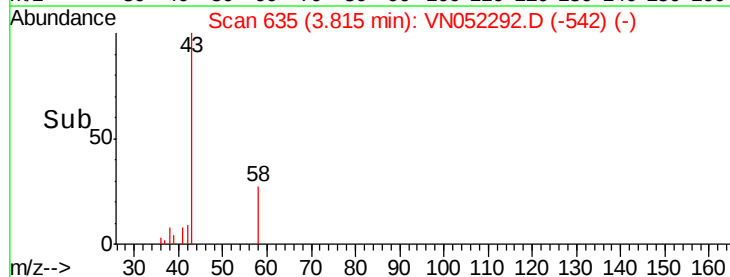
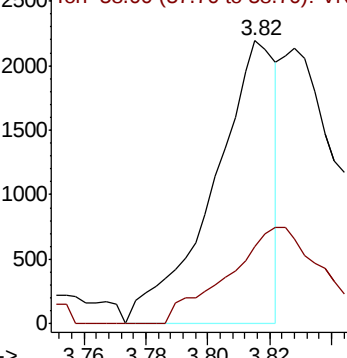
Ion Ratio Lower Upper

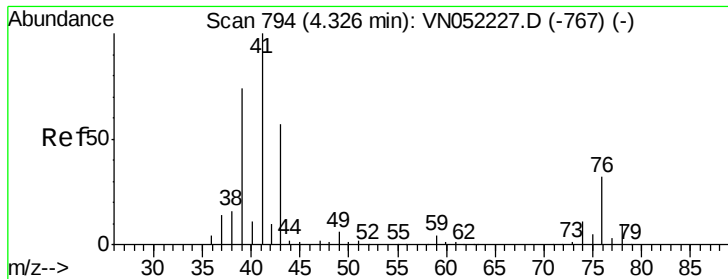
43 100

58 27.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN052292.D (-600) (-)

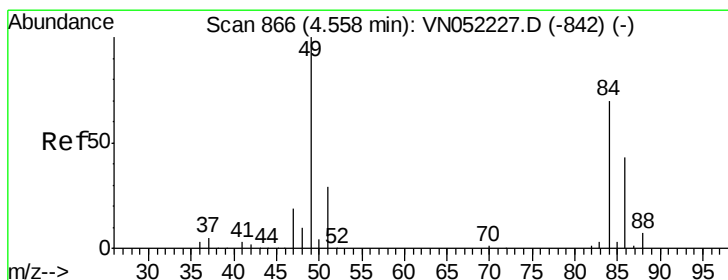
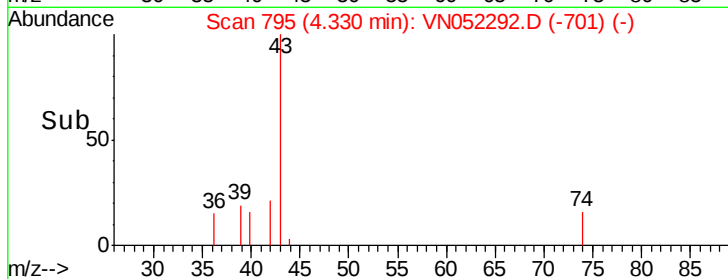
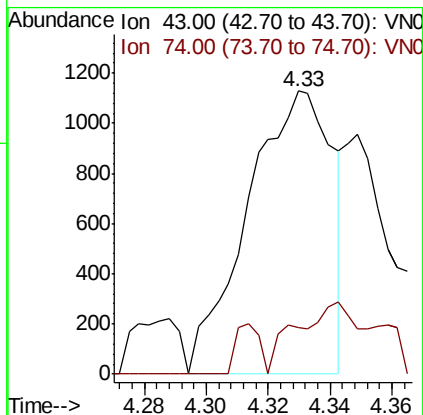
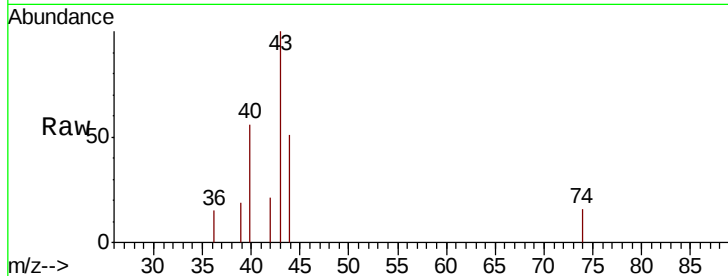




#18
Methyl Acetate
Concen: 0.576 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

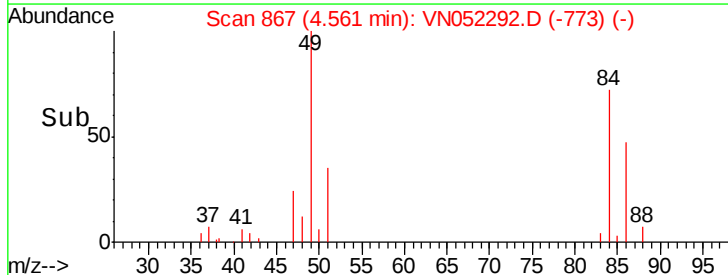
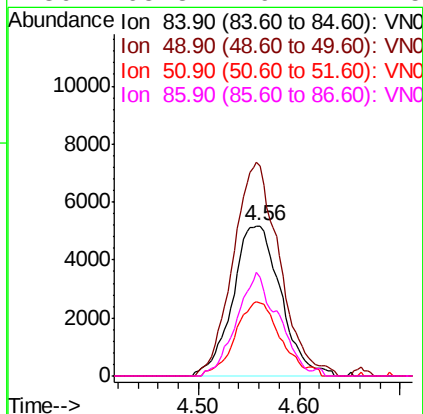
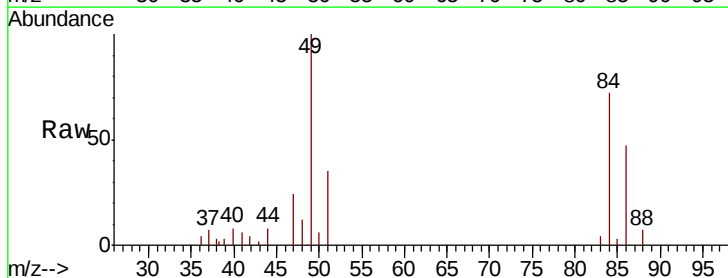
Instrument :
MSVOA_N
ClientSampled :

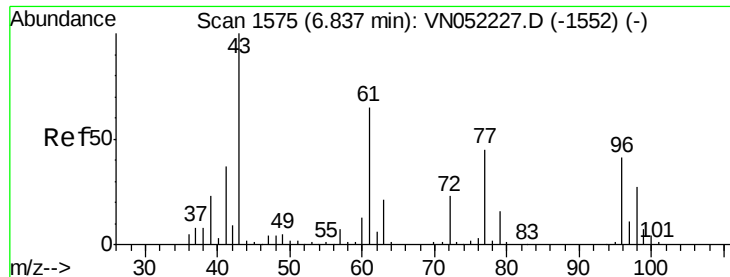
Tot Ion: 43 Resp: 2143
Ion Ratio Lower Upper
43 100
74 18.7 16.2 24.2



#20
Methylene Chloride
Concen: 4.207 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Tgt Ion: 84 Resp: 17078
Ion Ratio Lower Upper
84 100
49 139.6 114.8 172.2
51 48.7 33.1 49.7
86 65.8 49.7 74.5

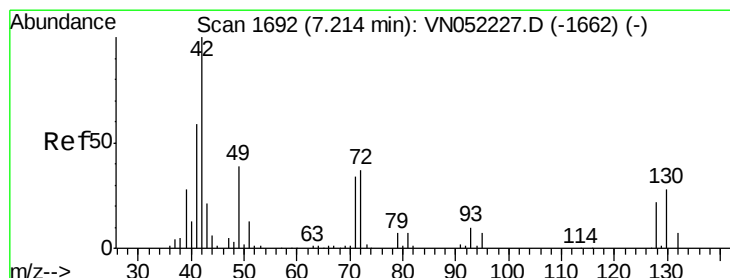
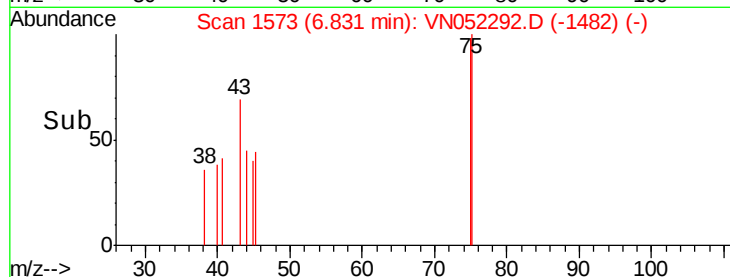
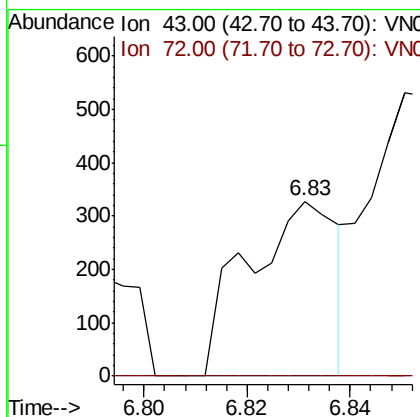
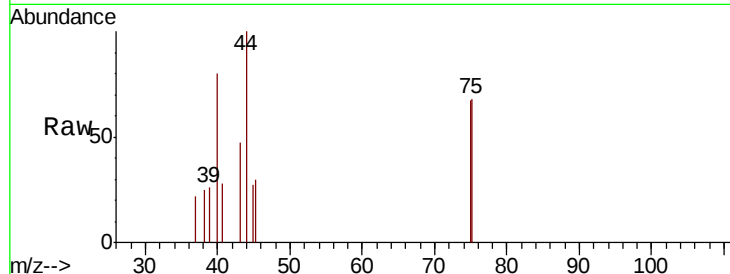




#25
 2-Butanone
 Concen: 0.208 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VN052292.D
 Acq: 13 Nov 2018 17:43

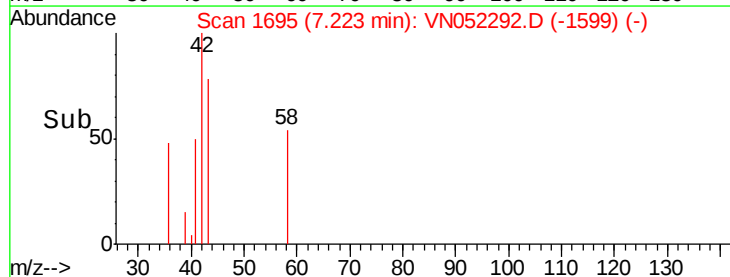
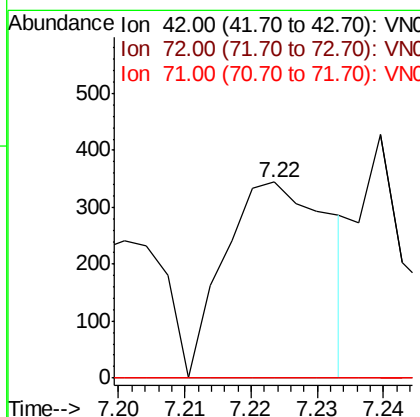
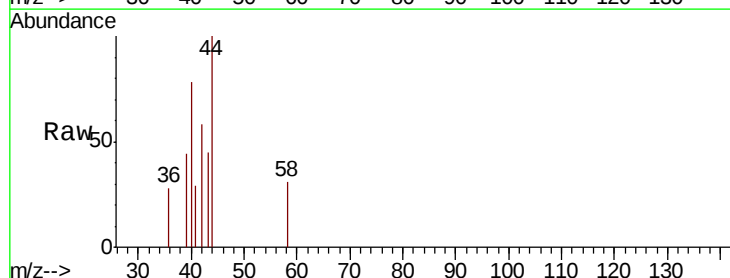
Instrument :
 MSVOA_N
 ClientSampled :

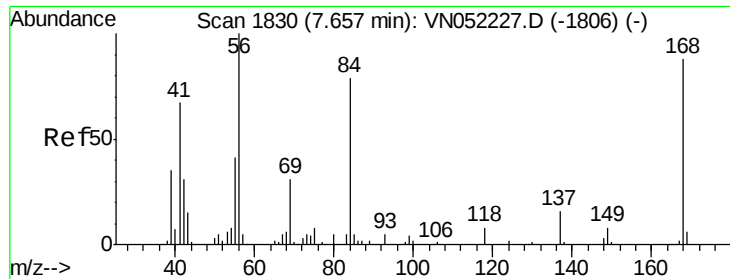
Tot Ion: 43 Resp: 395
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.6 27.8#



#29
 Tetrahydrofuran
 Concen: 0.307 ug/l
 RT: 7.22 min Scan# 1695
 Delta R.T. 0.01 min
 Lab File: VN052292.D
 Acq: 13 Nov 2018 17:43

Tgt Ion: 42 Resp: 380
 Ion Ratio Lower Upper
 42 100
 72 0.0 28.6 43.0#
 71 0.0 27.1 40.7#

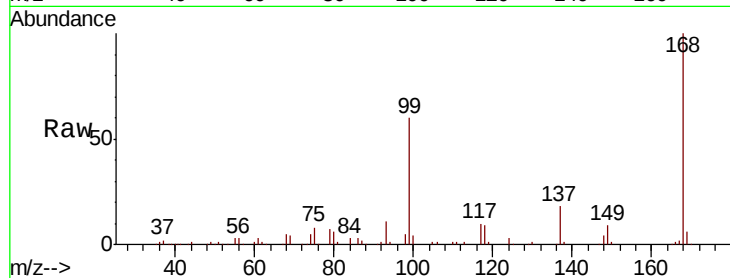




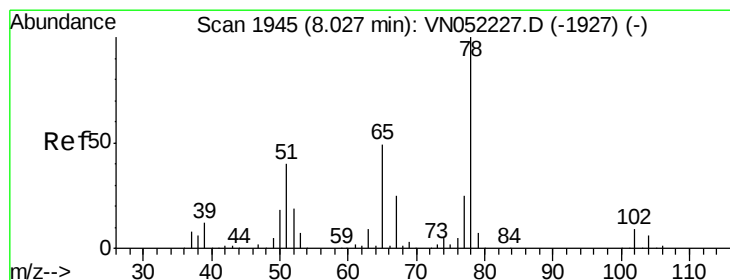
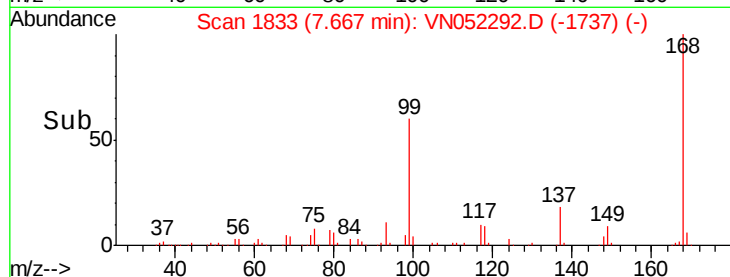
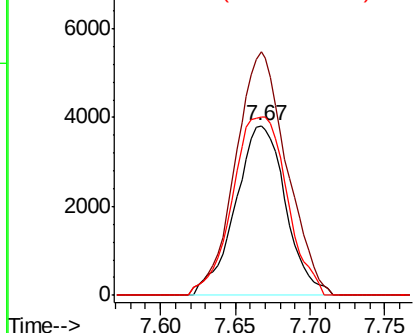
#31
Cyclohexane
Concen: 0.611 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 8897
Ion Ratio Lower Upper
56 100
69 143.3 24.8 37.2#
84 104.7 63.1 94.7#

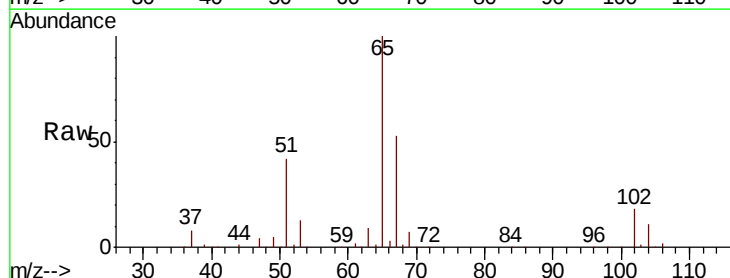


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

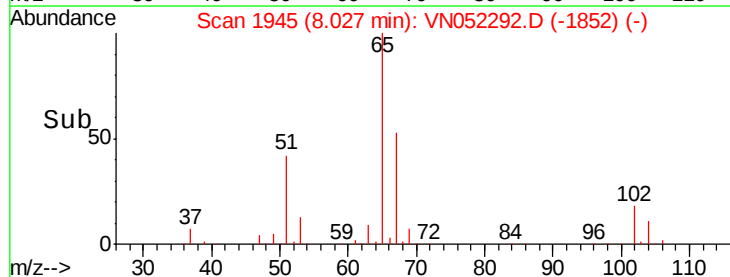
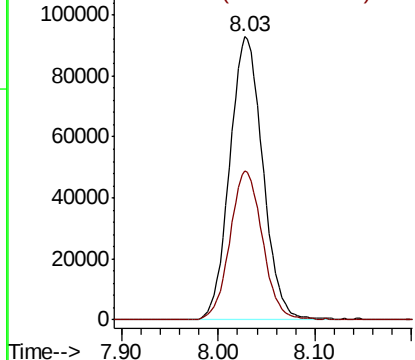


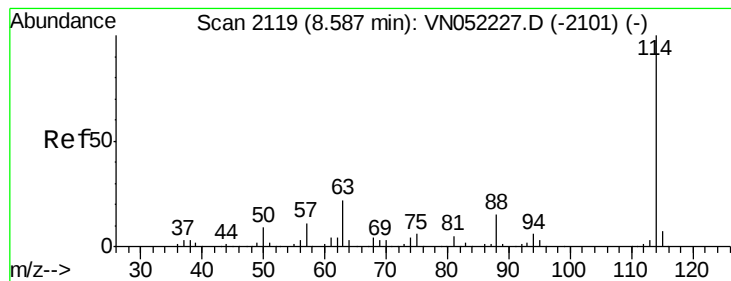
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Tgt Ion: 65 Resp: 220700
Ion Ratio Lower Upper
65 100
67 51.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

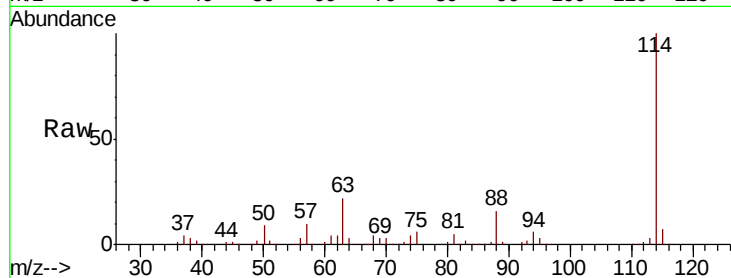
Tot Ion:114 Resp: 546260

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.4

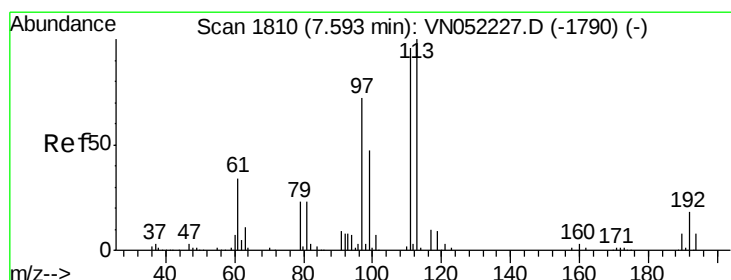
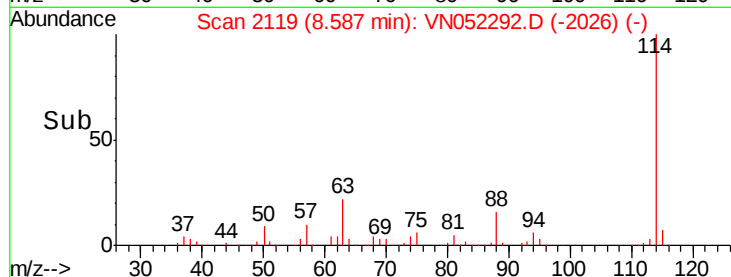
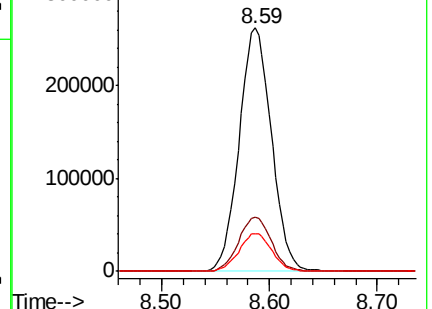
88 15.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

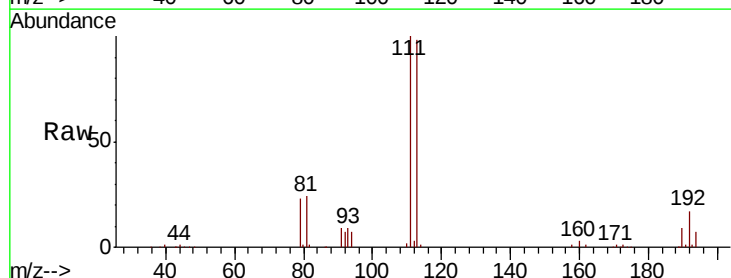
Tgt Ion:113 Resp: 173399

Ion Ratio Lower Upper

113 100

111 102.9 80.2 120.4

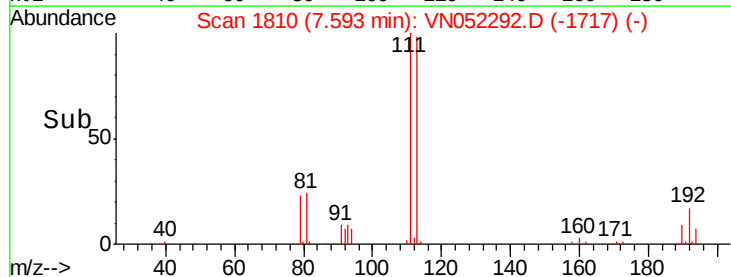
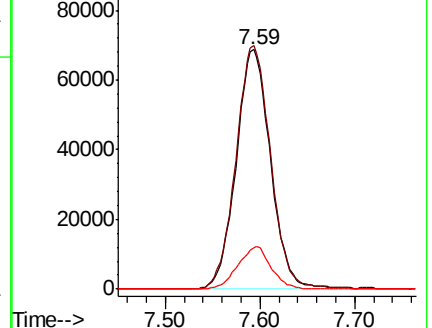
192 17.1 14.1 21.1

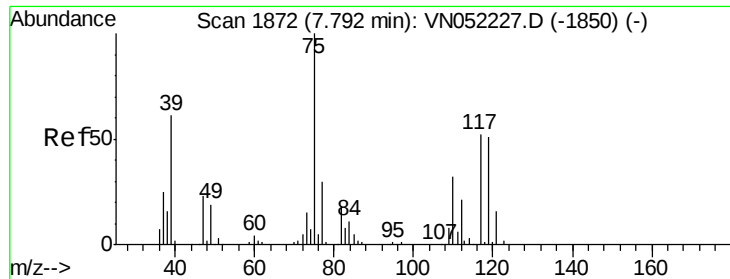


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

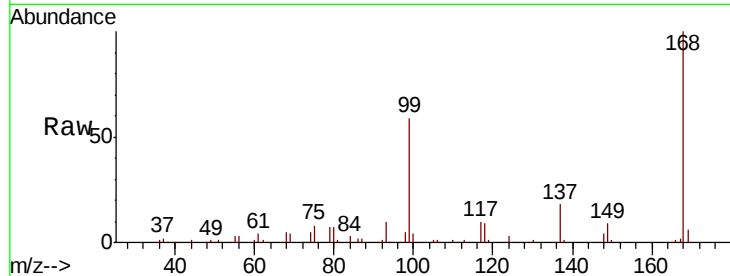




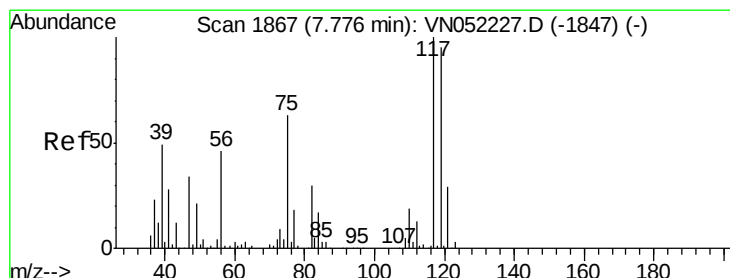
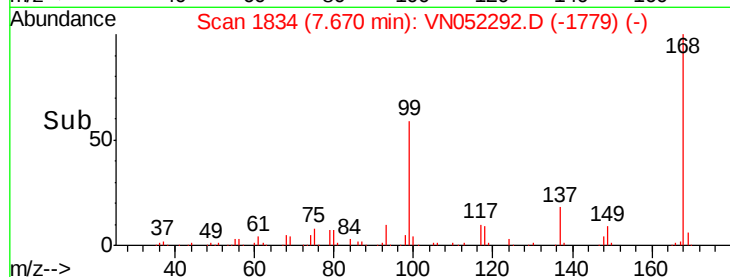
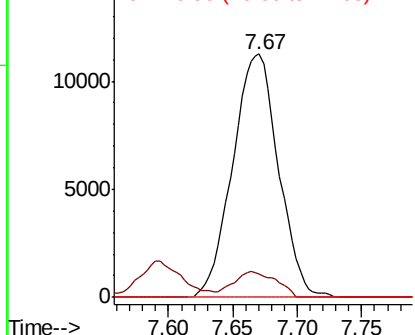
#36
 1,1-Dichloropropene
 Concen: 5.039 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN052292.D
 Acq: 13 Nov 2018 17:43

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 27781
 Ion Ratio Lower Upper
 75 100
 110 10.1 16.4 49.4#
 77 0.0 23.9 35.9#

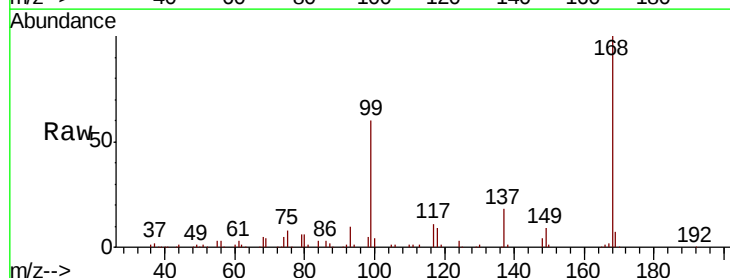


Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-1850) (-)
 Ion 109.90 (109.60 to 110.60): VN052227.D (-1850) (-)
 Ion 76.90 (76.60 to 77.60): VN052227.D (-1850) (-)

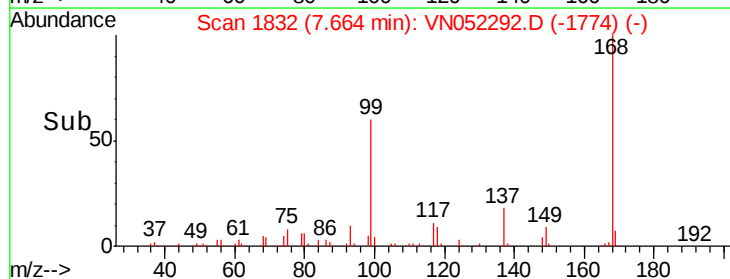
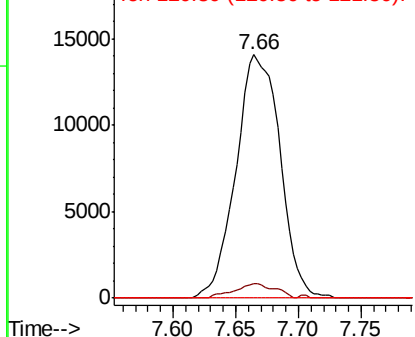


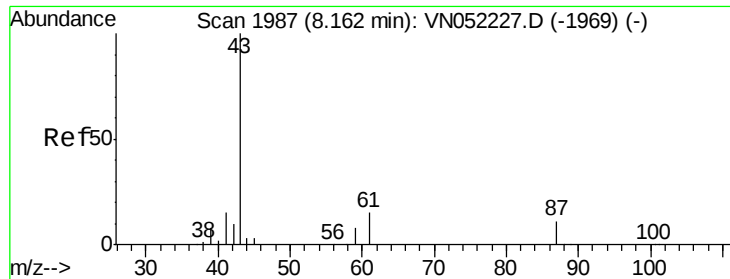
#38
 Carbon Tetrachloride
 Concen: 6.885 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052292.D
 Acq: 13 Nov 2018 17:43

Tgt Ion: 117 Resp: 34400
 Ion Ratio Lower Upper
 117 100
 119 5.9 75.8 113.8#
 121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN052227.D (-1847) (-)
 Ion 118.80 (118.50 to 119.50): VN052227.D (-1847) (-)
 Ion 120.80 (120.50 to 121.50): VN052227.D (-1847) (-)

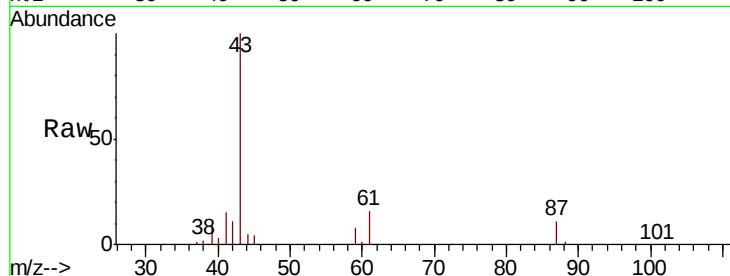




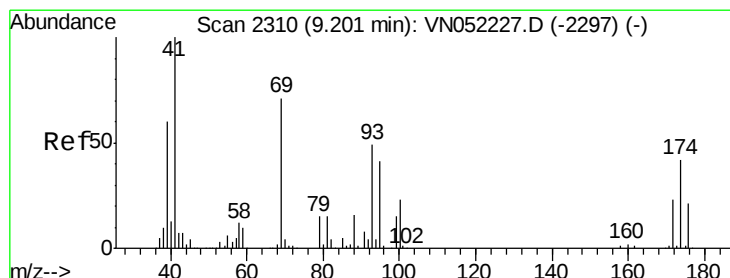
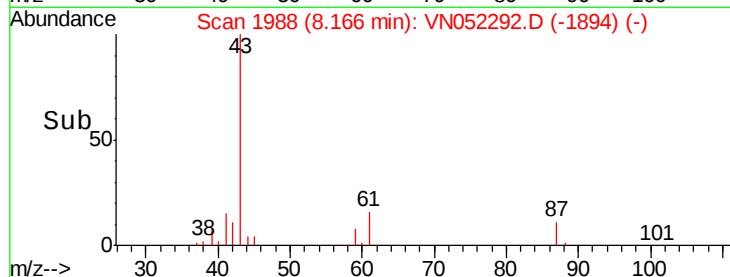
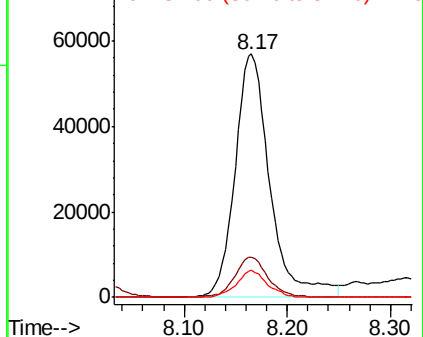
#43
Isopropyl Acetate
Concen: 18.585 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 134340
Ion Ratio Lower Upper
43 100
61 15.6 14.2 21.4
87 9.8 8.4 12.6

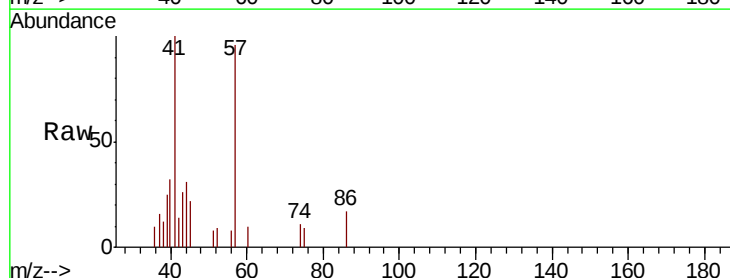


Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC

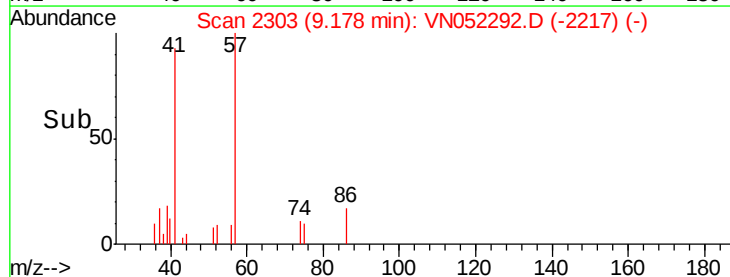
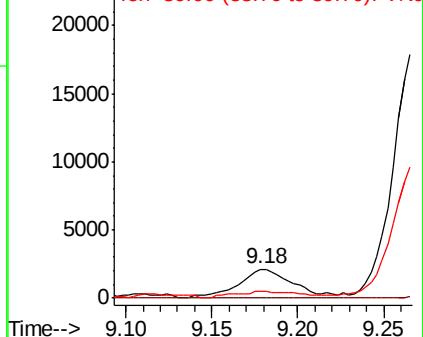


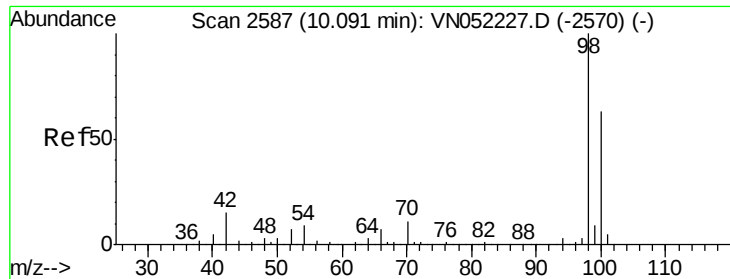
#48
Methyl methacrylate
Concen: 1.243 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Tgt Ion: 41 Resp: 4735
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

Instrument :

MSVOA_N

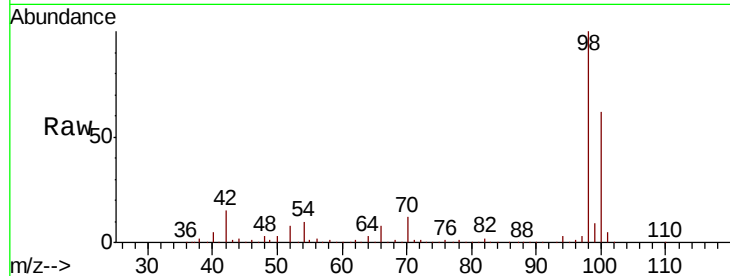
ClientSampleId :

Tot Ion: 98 Resp: 682604

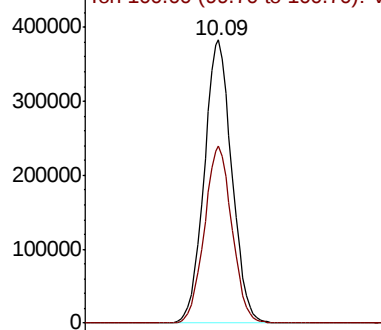
Ion Ratio Lower Upper

98 100

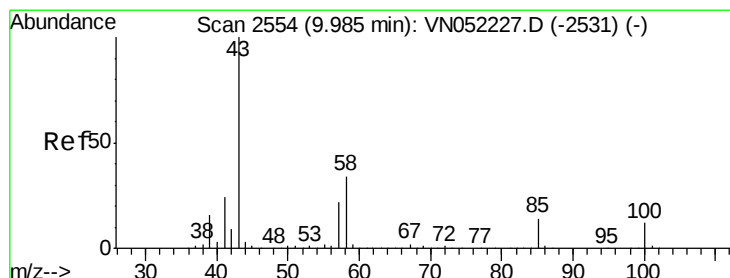
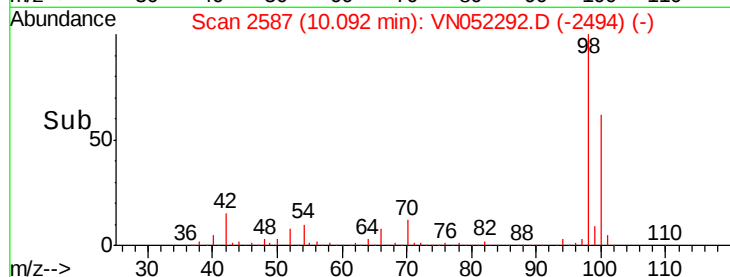
100 62.6 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN052227.D (-2570) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.368 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052292.D

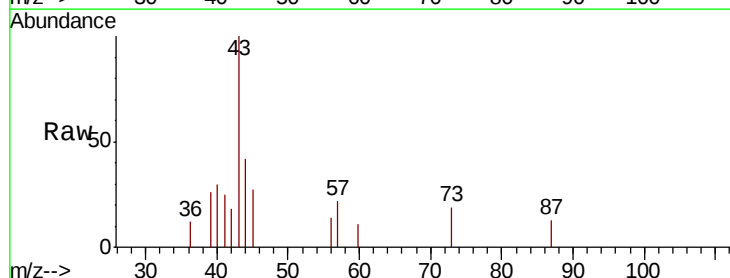
Acq: 13 Nov 2018 17:43

Tgt Ion: 43 Resp: 1468

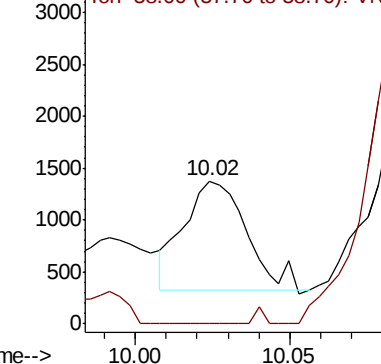
Ion Ratio Lower Upper

43 100

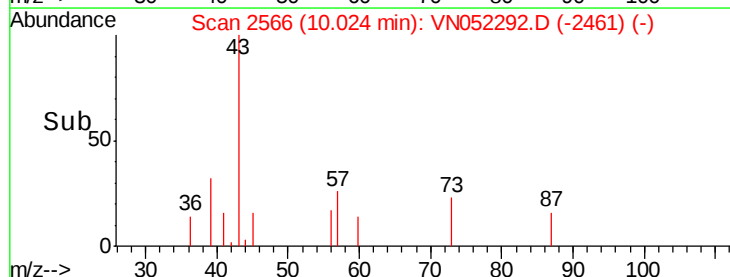
58 0.0 27.4 41.0#

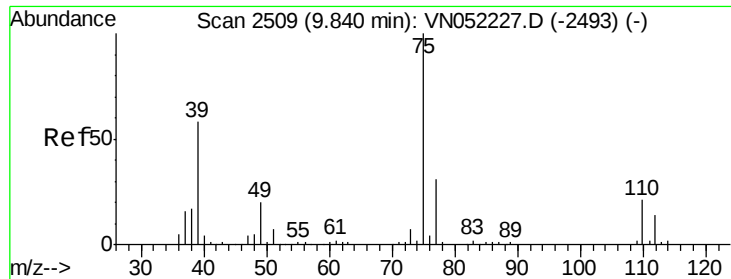


Abundance Ion 43.00 (42.70 to 43.70): VN052227.D (-2531) (-)



Time-->





#54

cis-1,3-Dichloropropene

Concen: 1.610 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

Instrument :

MSVOA_N

ClientSampled :

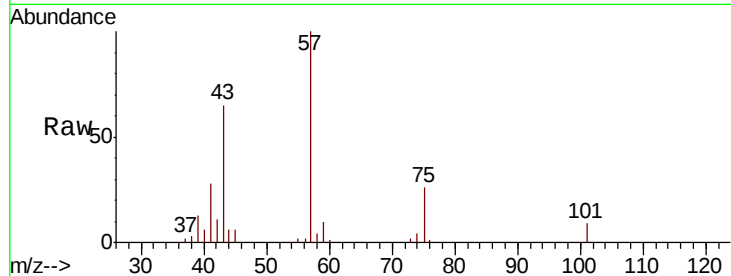
Tot Ion: 75 Resp: 9842

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

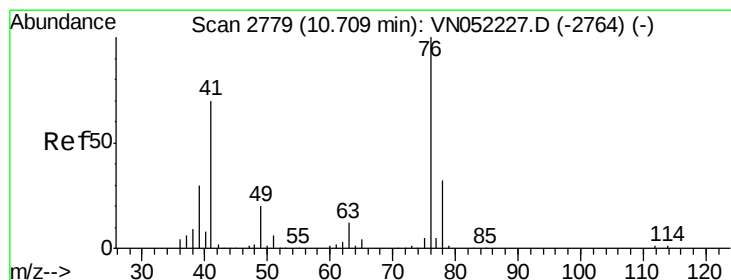
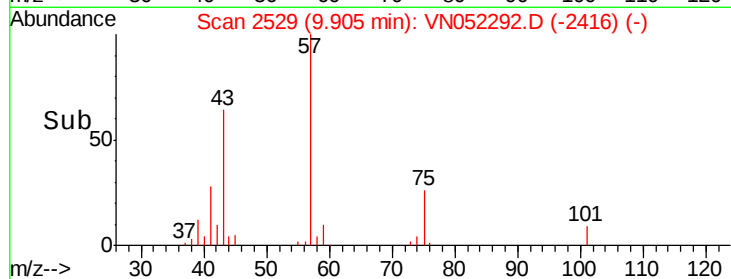
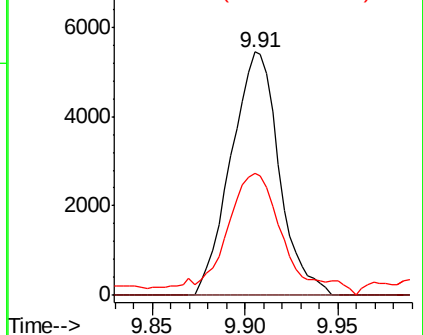
39 44.3 46.6 70.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.384 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052292.D

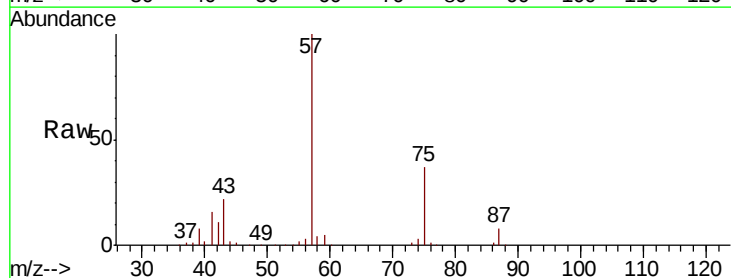
Acq: 13 Nov 2018 17:43

Tgt Ion: 76 Resp: 2367

Ion Ratio Lower Upper

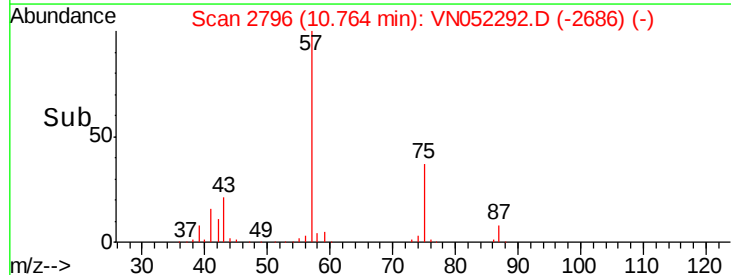
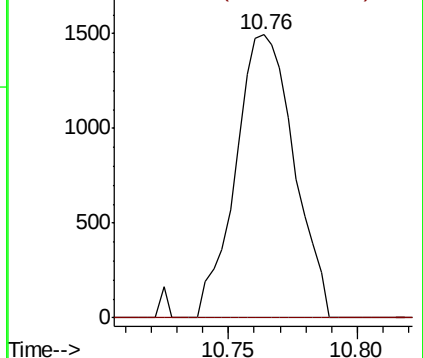
76 100

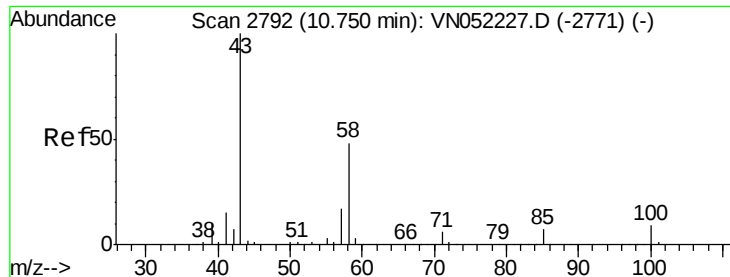
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

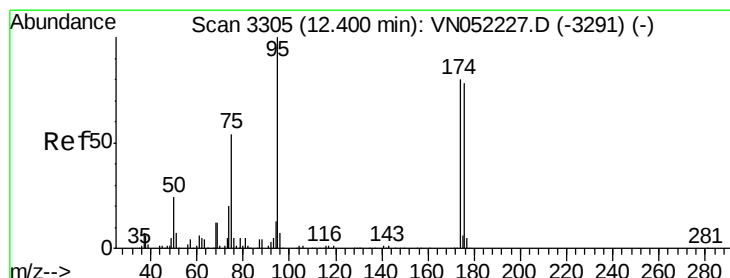
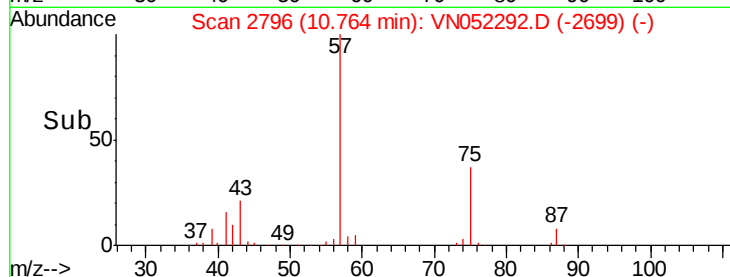
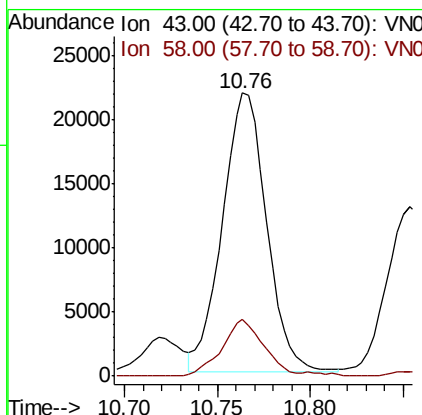
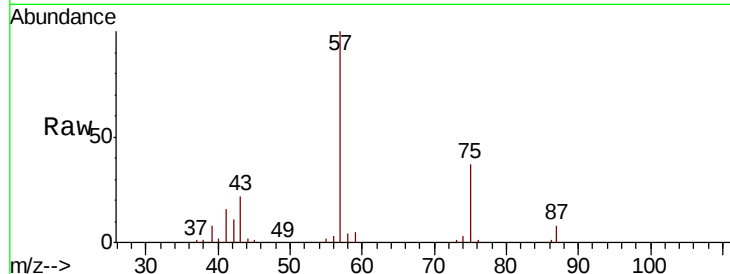




#59
2-Hexanone
Concen: 12.919 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

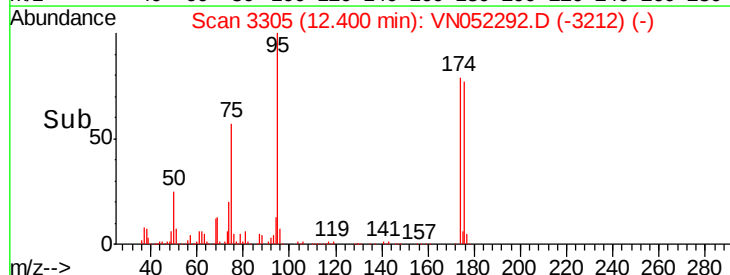
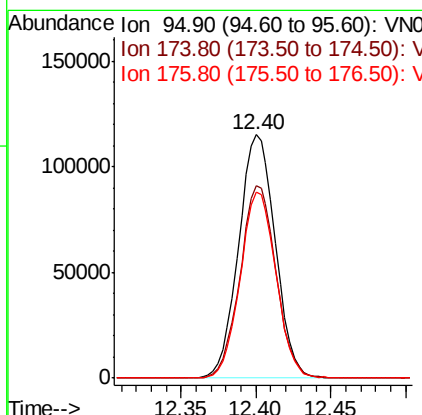
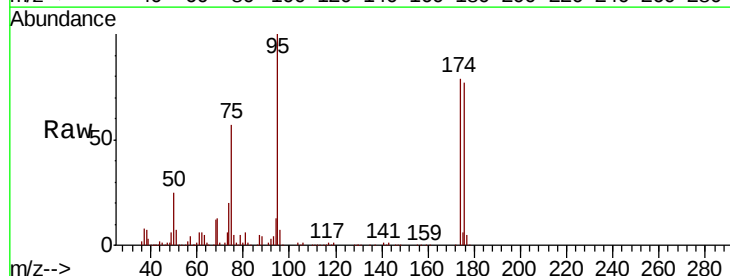
Instrument :
MSVOA_N
ClientSampled :

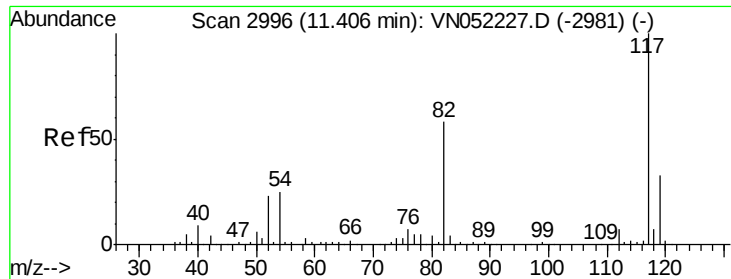
Tot Ion: 43 Resp: 36204
Ion Ratio Lower Upper
43 100
58 19.0 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Tgt Ion: 95 Resp: 196511
Ion Ratio Lower Upper
95 100
174 77.5 0.0 159.4
176 74.5 0.0 157.8

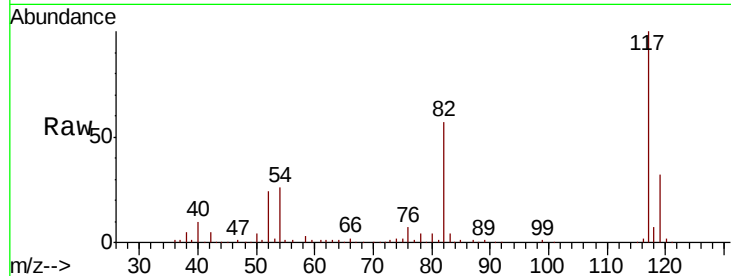




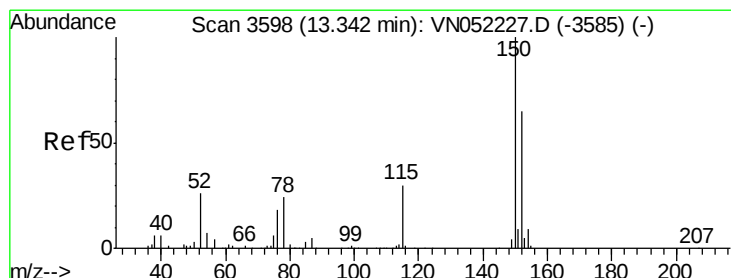
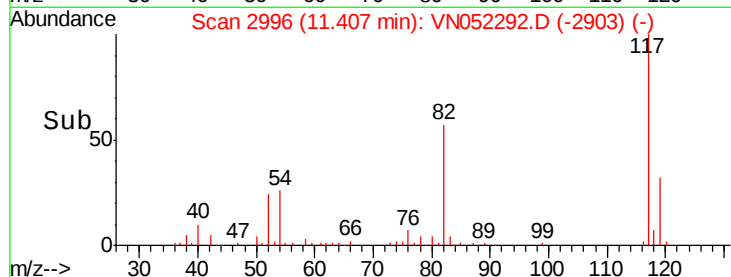
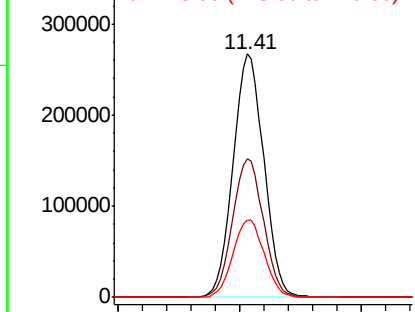
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 466219
Ion Ratio Lower Upper
117 100
82 57.0 46.2 69.2
119 31.9 26.2 39.4

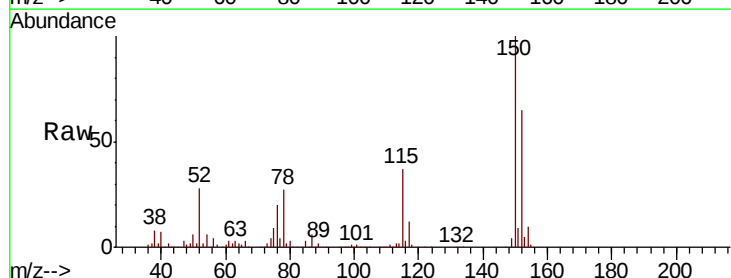


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

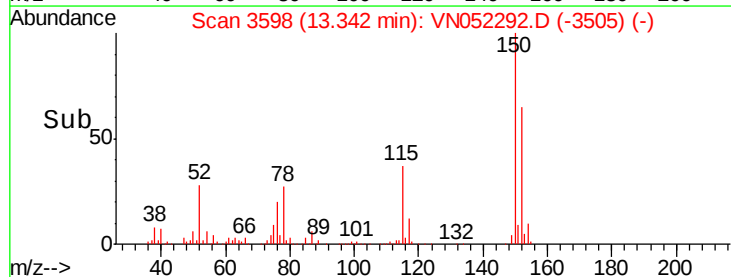
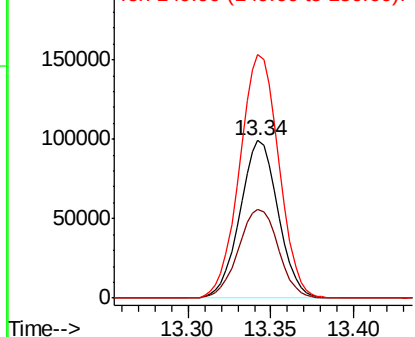


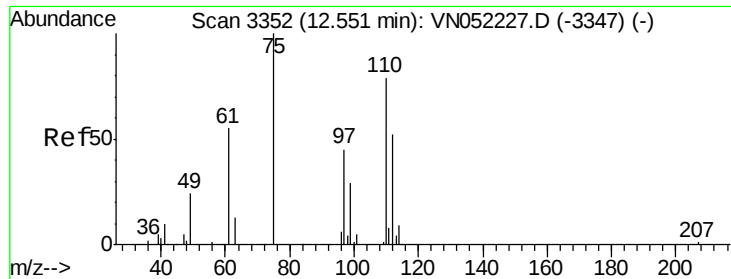
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052292.D
Acq: 13 Nov 2018 17:43

Tgt Ion:152 Resp: 158269
Ion Ratio Lower Upper
152 100
115 59.3 29.8 89.5
150 159.0 0.0 350.2



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: 38.994 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

Instrument :

MSVOA_N

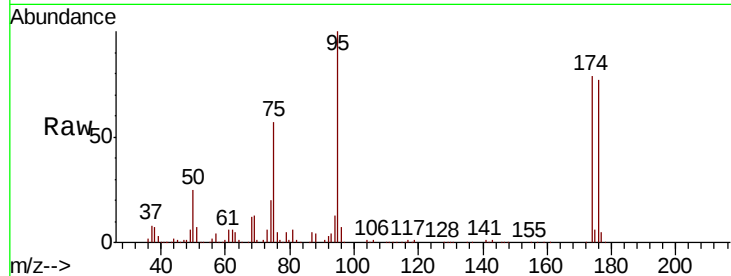
ClientSampled :

Tot Ion: 75 Resp: 109191

Ion Ratio Lower Upper

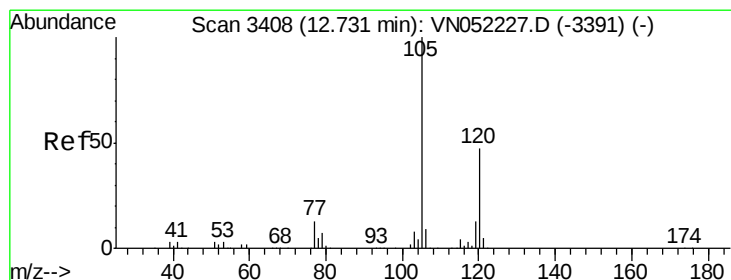
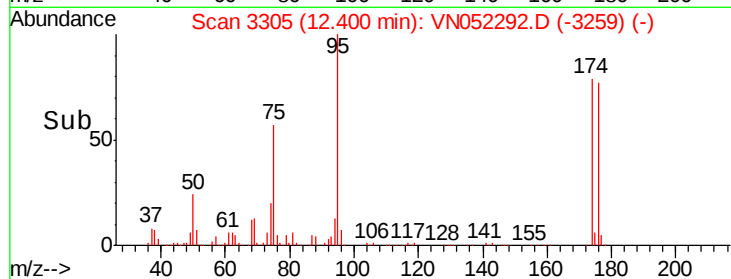
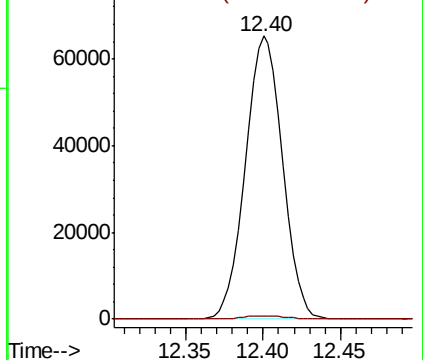
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN052227.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.200 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052292.D

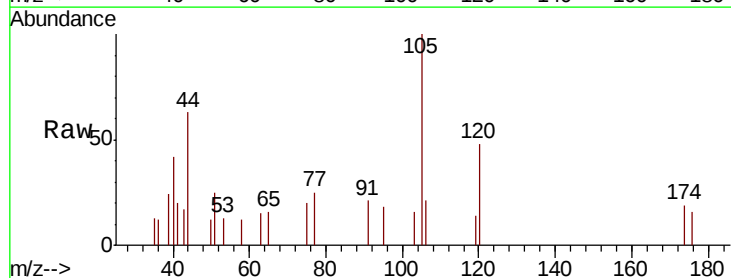
Acq: 13 Nov 2018 17:43

Tgt Ion: 105 Resp: 2059

Ion Ratio Lower Upper

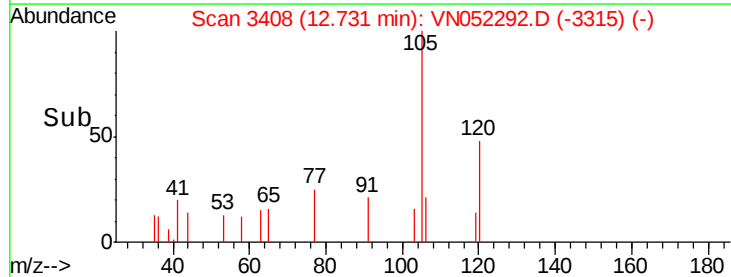
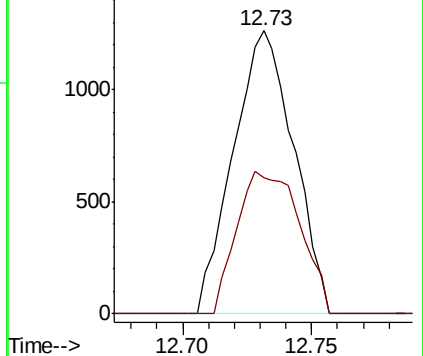
105 100

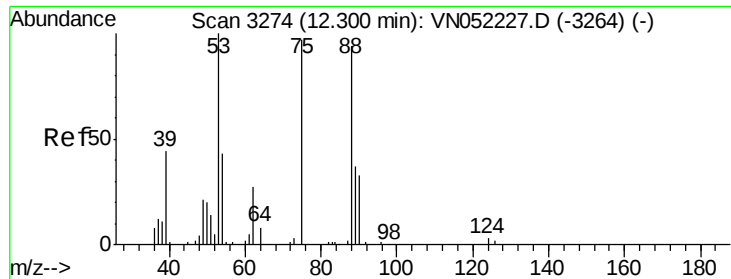
120 52.6 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN052227.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 133.104 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052292.D

Acq: 13 Nov 2018 17:43

Instrument :

MSVOA_N

ClientSampleId :

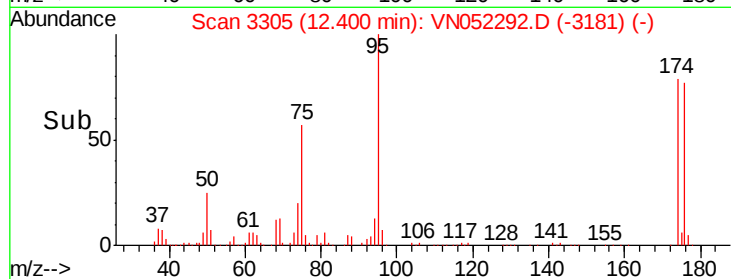
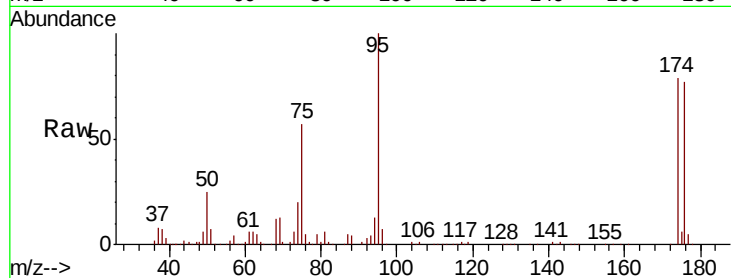
Tot Ion: 75 Resp: 109191

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 33.7 50.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

