

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112118\
 Data File : VN052435.D
 Acq On : 21 Nov 2018 13:51
 Operator : MD\SY
 Sample : PB114992ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 23:57:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	309543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	521195	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	447111	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	153717	50.00	ug/l	0.00

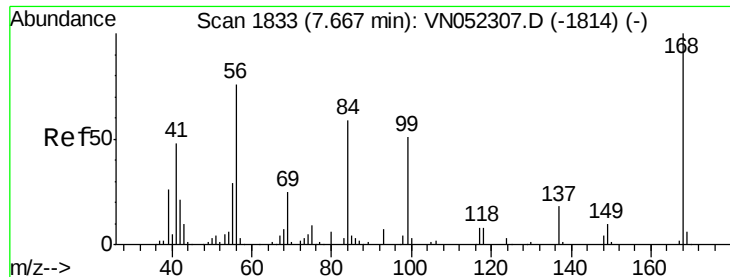
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	235951	53.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.94%	
35) Dibromofluoromethane	7.59	113	173649	51.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.32%	
50) Toluene-d8	10.09	98	668591	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.40	95	197646	45.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.86%	

Target Compounds

						Qvalue
13) Acrolein	3.61	56	129	22.109	ug/l #	68
16) Acetone	3.82	43	4977	4.135	ug/l	94
18) Methyl Acetate	4.33	43	568	0.599	ug/l #	57
20) Methylene Chloride	4.56	84	10560	2.214	ug/l	96
25) 2-Butanone	6.85	43	999	0.590	ug/l #	52
29) Tetrahydrofuran	7.21	42	294	0.264	ug/l #	40
31) Cyclohexane	7.67	56	9836	0.428	ug/l #	47
36) 1,1-Dichloropropene	7.66	75	30172	5.776	ug/l #	52
38) Carbon Tetrachloride	7.67	117	33452	6.970	ug/l #	15
41) Methacrylonitrile	7.17	41	275	3.816	ug/l #	100
43) Isopropyl Acetate	8.17	43	18425	2.519	ug/l	99
45) 1,2-Dichloropropane	9.27	63	978	0.231	ug/l #	44
48) Methyl methacrylate	9.18	41	4859	1.309	ug/l #	38
51) 4-Methyl-2-Pentanone	10.02	43	5239	1.423	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	33046	5.713	ug/l #	79
57) 1,3-Dichloropropane	10.77	76	6716	1.172	ug/l #	43
59) 2-Hexanone	10.77	43	122205	48.246	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	114795	44.012	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9307	0.947	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	114795	142.747	ug/l #	5
95) Naphthalene	15.14	128	111	2.624	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

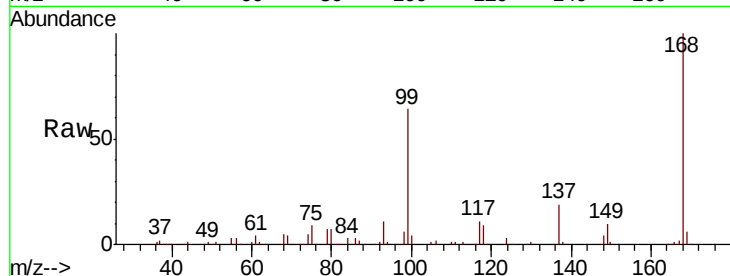
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 309543

Ion Ratio Lower Upper

168 100

99 64.4 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

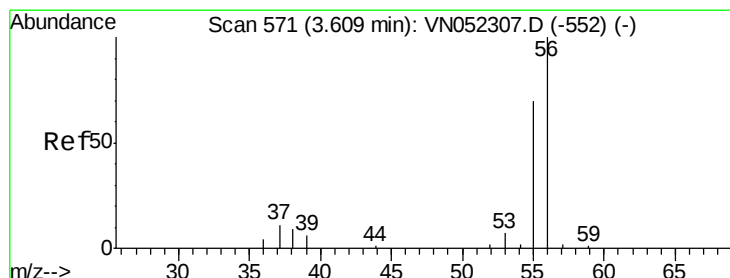
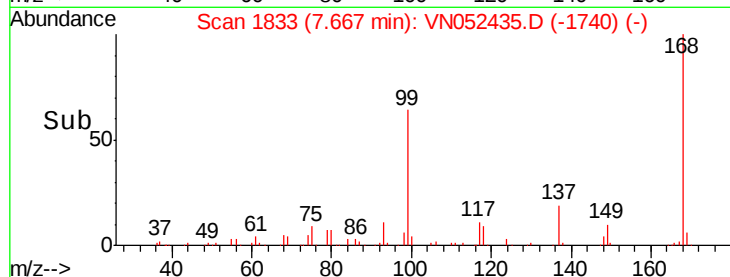
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 22.109 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052435.D

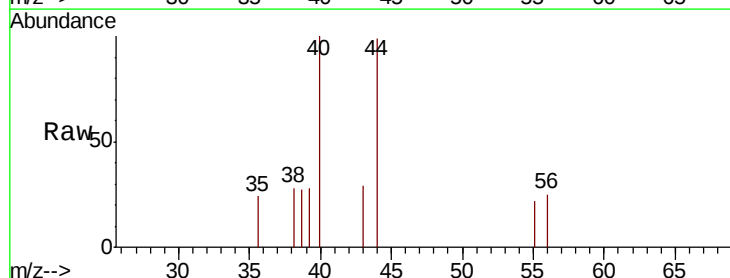
Acq: 21 Nov 2018 13:51

Tgt Ion: 56 Resp: 129

Ion Ratio Lower Upper

56 100

55 45.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-552) (-)

3.61

200

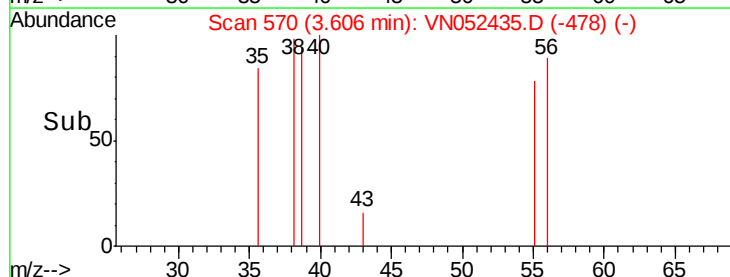
150

100

50

0

Time-->





#16

Acetone

Concen: 4.135 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

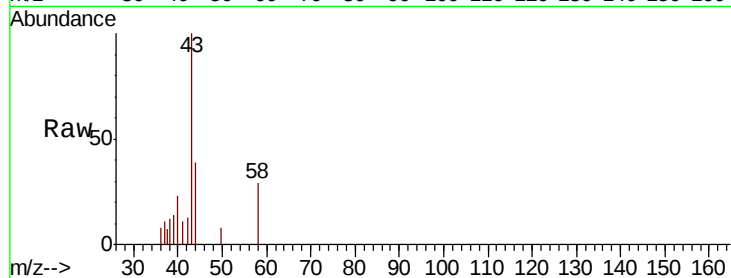
ClientSampled :

Tot Ion: 43 Resp: 4977

Ion Ratio Lower Upper

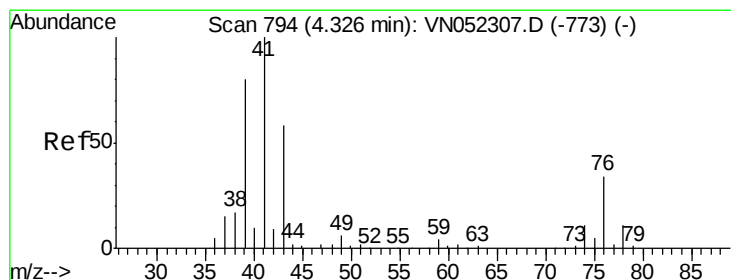
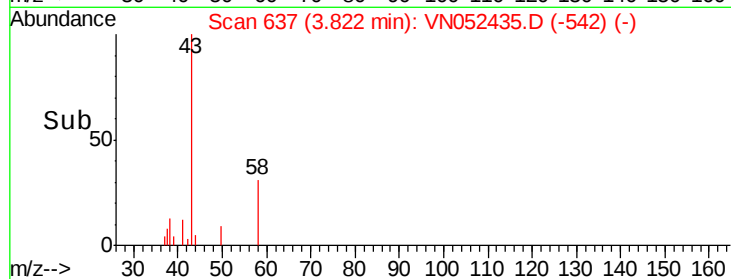
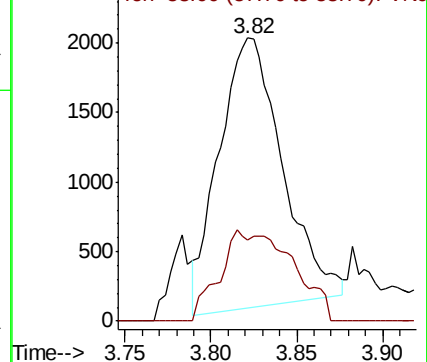
43 100

58 33.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.599 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052435.D

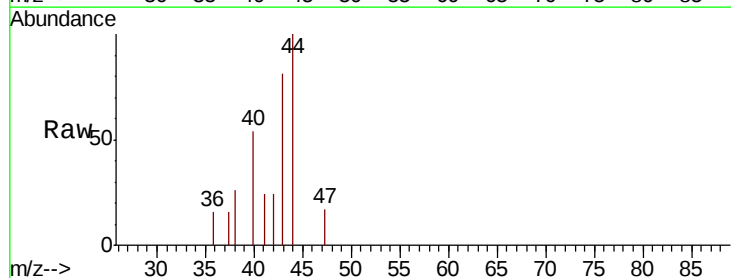
Acq: 21 Nov 2018 13:51

Tgt Ion: 43 Resp: 568

Ion Ratio Lower Upper

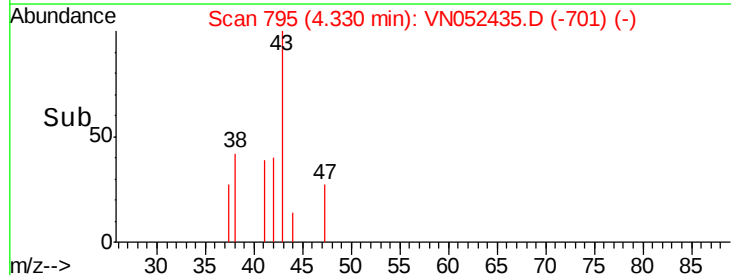
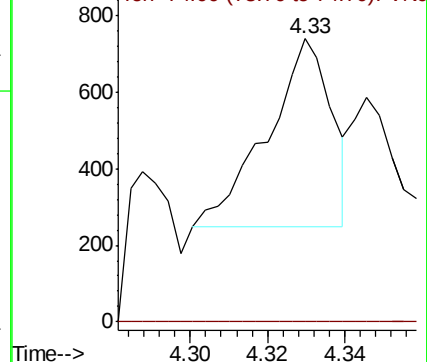
43 100

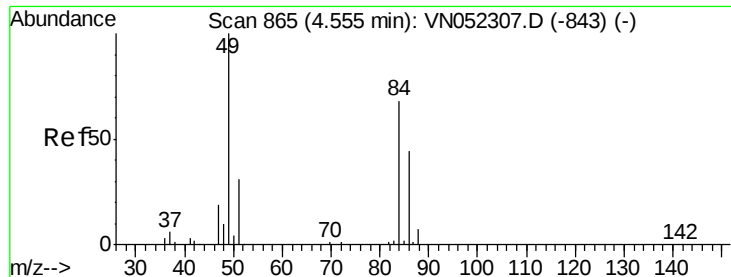
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

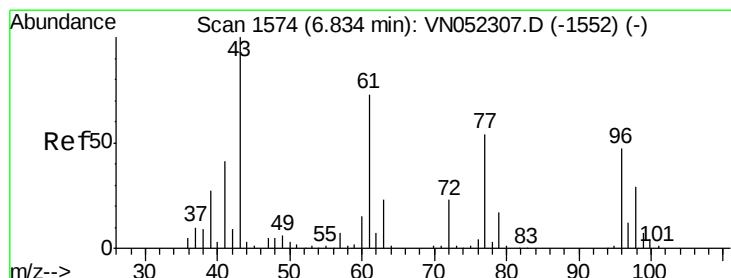
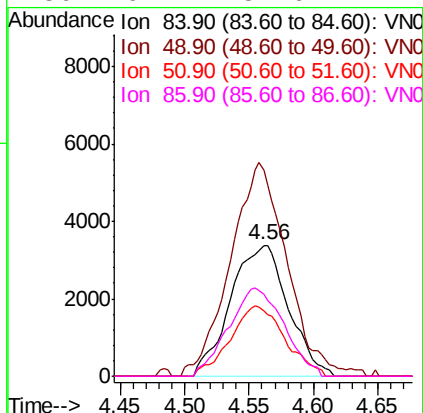
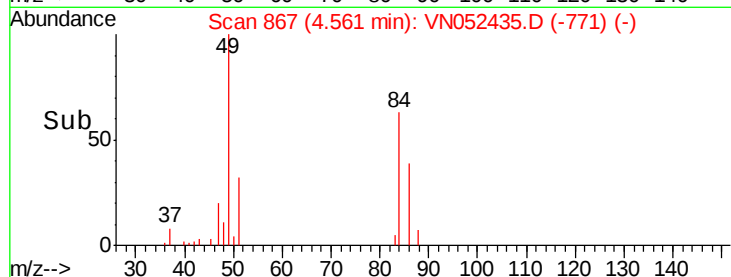
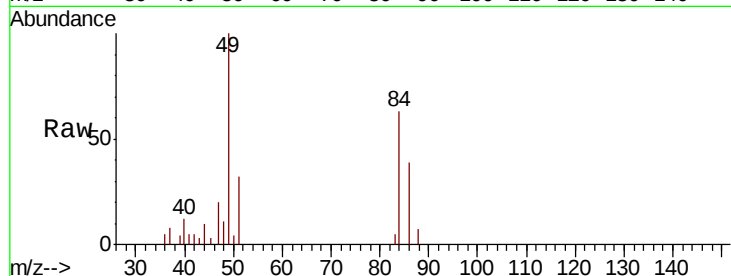




#20
Methvlene Chloride
Concen: 2.214 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

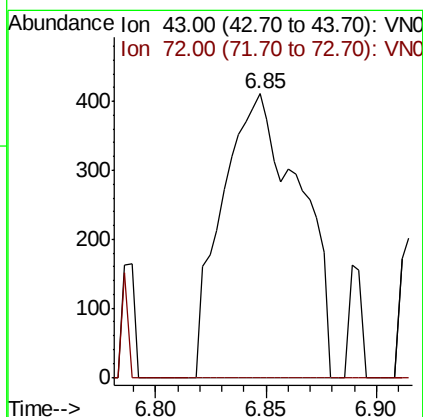
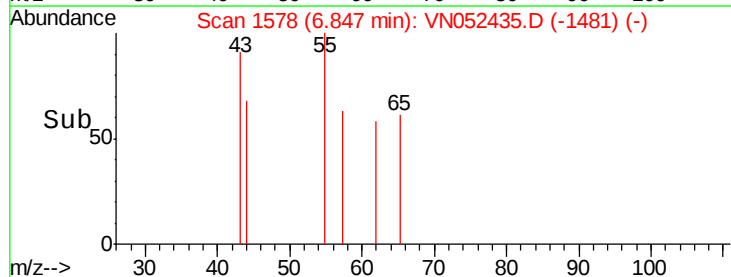
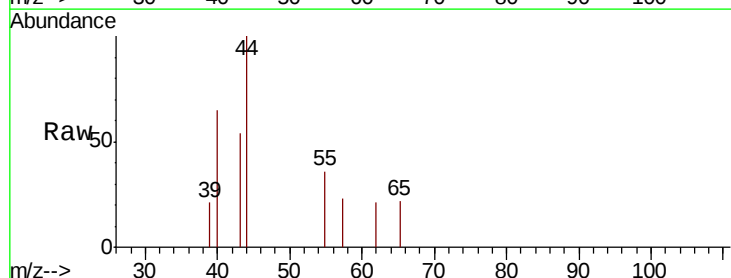
Instrument :
MSVOA_N
ClientSampled :

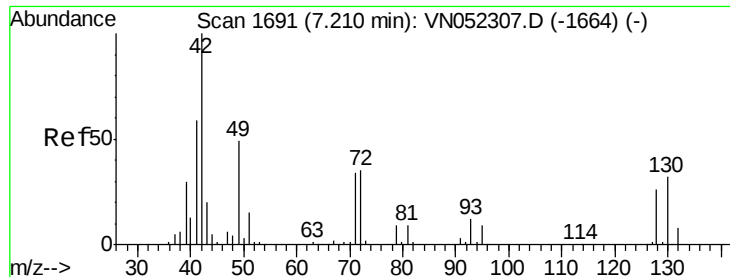
Tot Ion: 84 Resp: 10560
Ion Ratio Lower Upper
84 100
49 151.4 118.2 177.2
51 50.1 36.1 54.1
86 62.2 51.6 77.4



#25
2-Butanone
Concen: 0.590 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

Tgt Ion: 43 Resp: 999
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#





#29

Tetrahydrofuran

Concen: 0.264 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

ClientSampled :

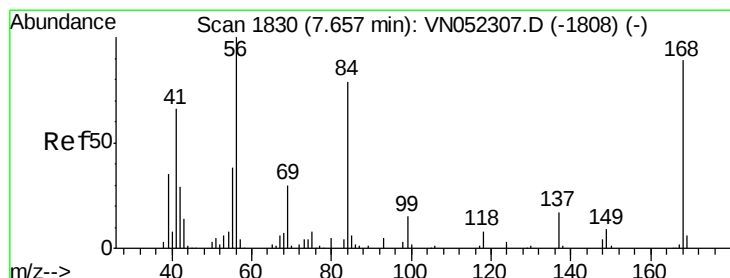
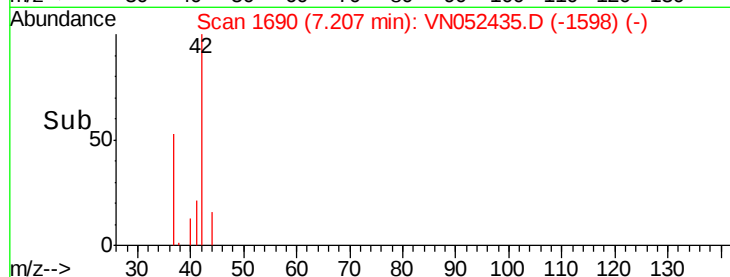
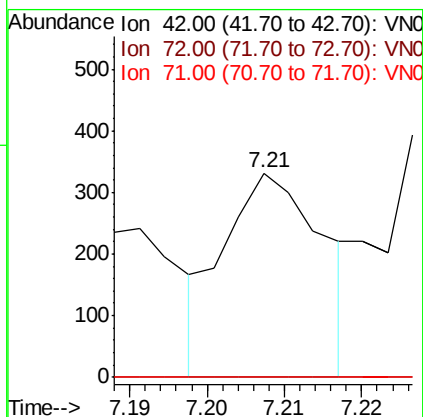
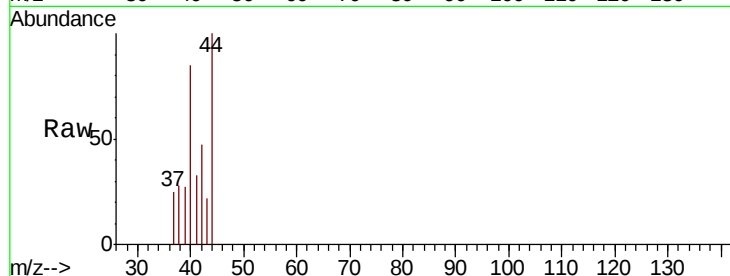
Tot Ion: 42 Resp: 294

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

71 0.0 26.7 40.1#



#31

Cyclohexane

Concen: 0.428 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

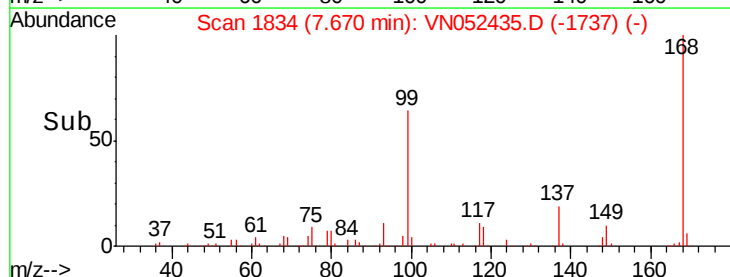
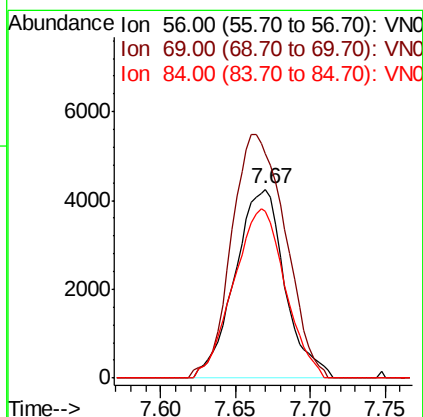
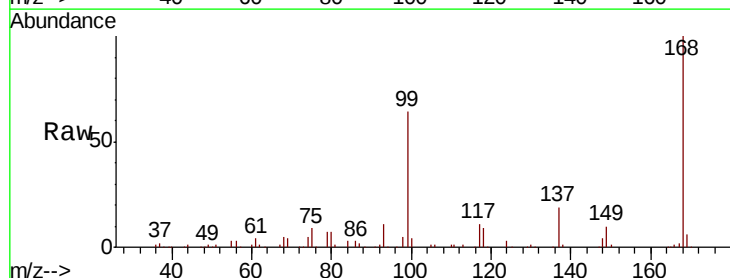
Tgt Ion: 56 Resp: 9836

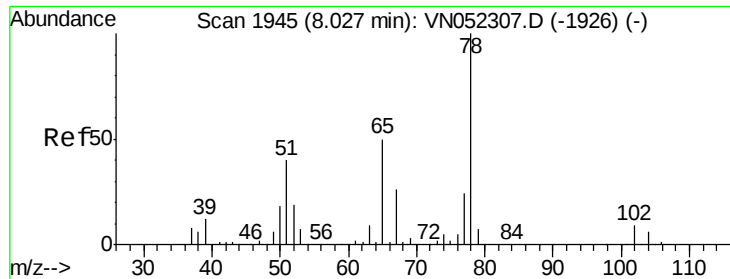
Ion Ratio Lower Upper

56 100

69 119.2 23.8 35.8#

84 88.3 63.0 94.6

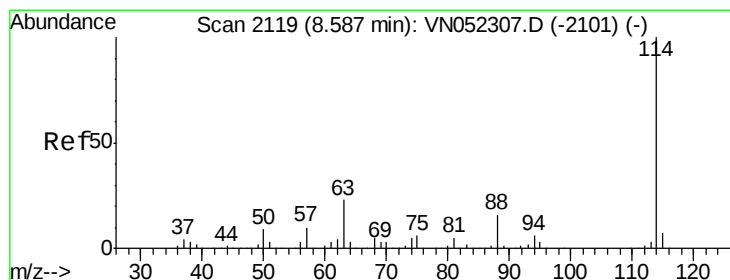
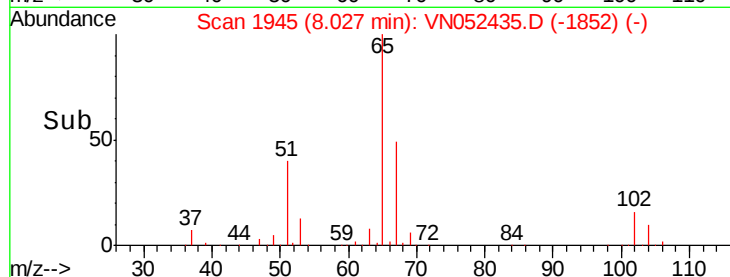
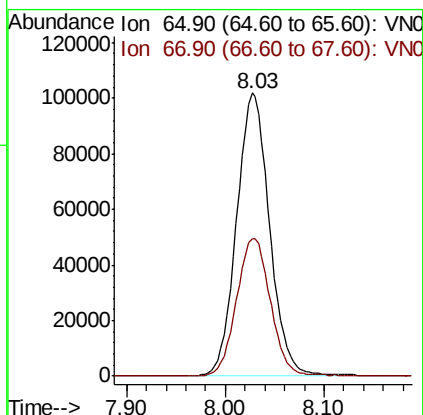
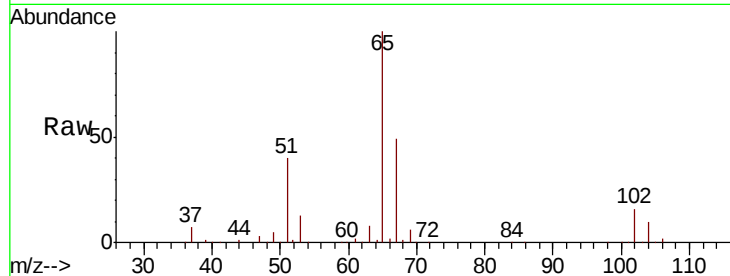




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052435.D
 Acq: 21 Nov 2018 13:51

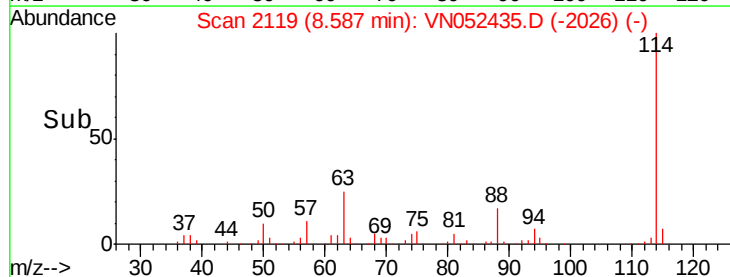
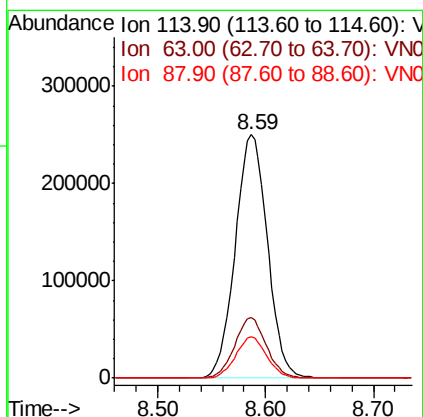
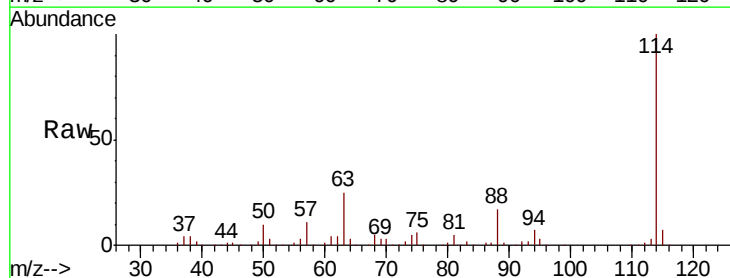
Instrument :
 MSVOA_N
 ClientSampled :

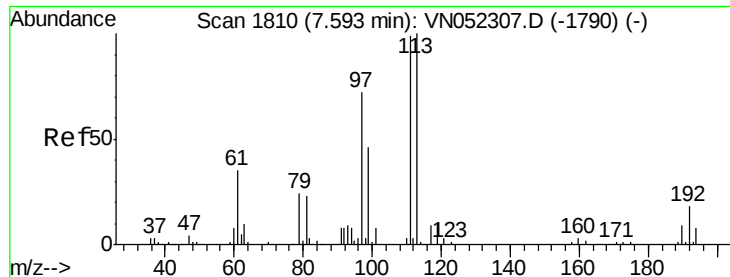
Tot Ion: 65 Resp: 235951
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052435.D
 Acq: 21 Nov 2018 13:51

Tgt Ion:114 Resp: 521195
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 45.4
 88 16.9 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :
MSVOA_N
ClientSampleId :

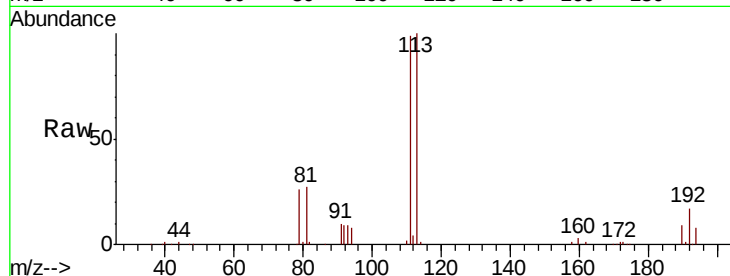
Tot Ion:113 Resp: 173649

Ion Ratio Lower Upper

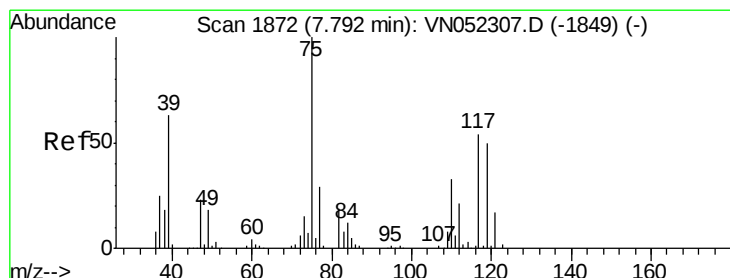
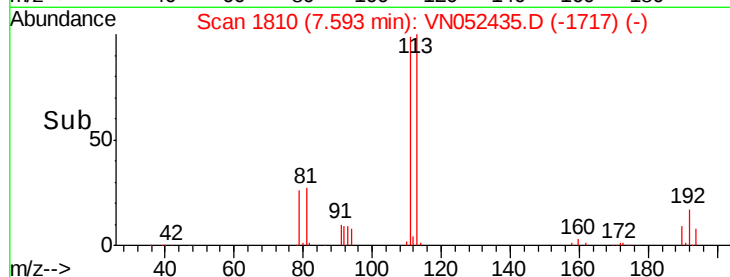
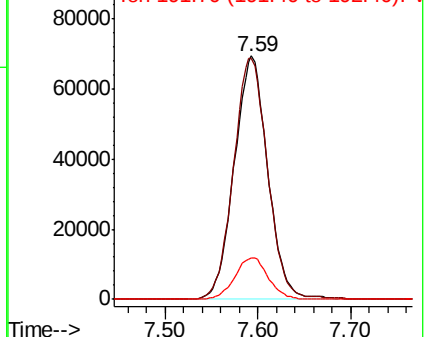
113 100

111 100.9 81.0 121.6

192 17.1 13.8 20.6



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: 5.776 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

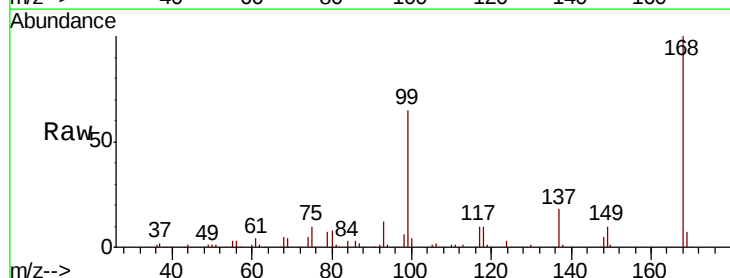
Tgt Ion: 75 Resp: 30172

Ion Ratio Lower Upper

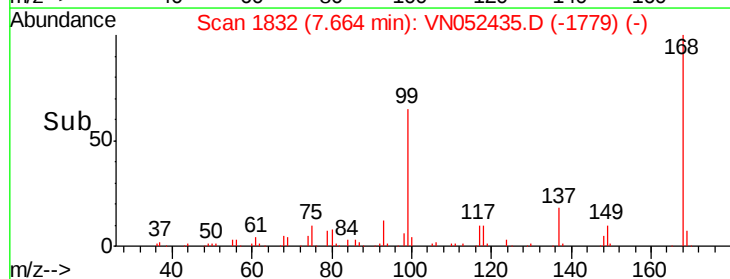
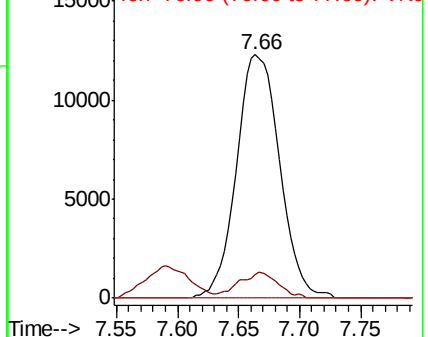
75 100

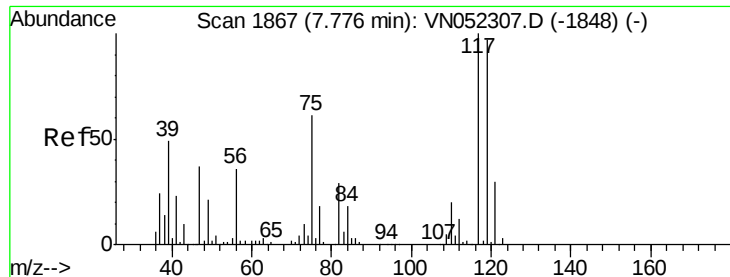
110 9.5 16.5 49.5#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.970 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

ClientSampleId :

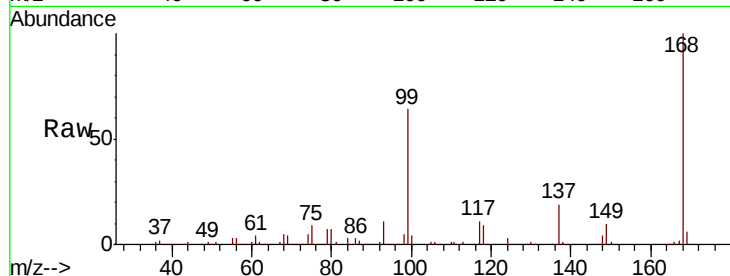
Tot Ion:117 Resp: 33452

Ion Ratio Lower Upper

117 100

119 4.3 77.4 116.0#

121 0.0 24.0 36.0#

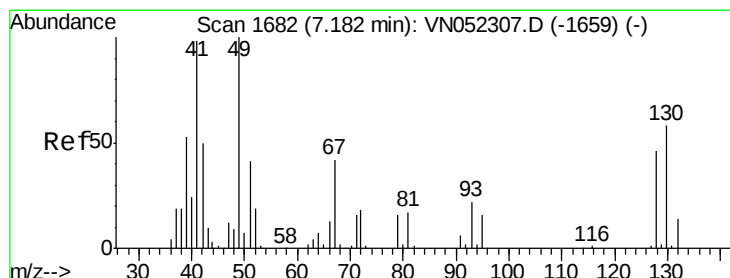
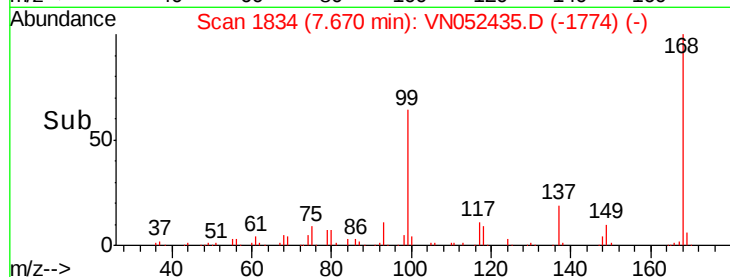
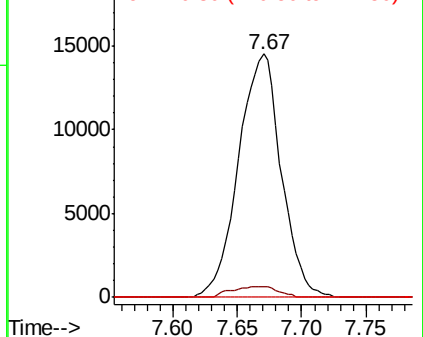


Abundance

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



#41

Methacrylonitrile

Concen: 3.816 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. -0.01 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Tgt Ion: 41 Resp: 275

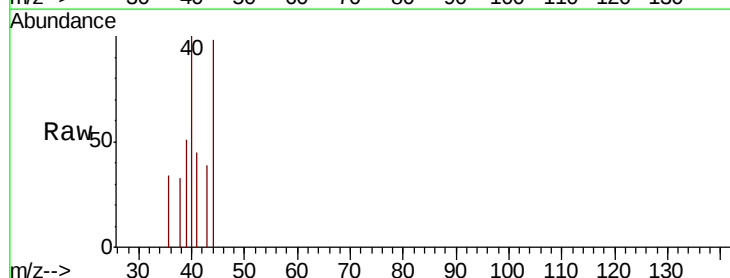
Ion Ratio Lower Upper

41 100

39 44.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0



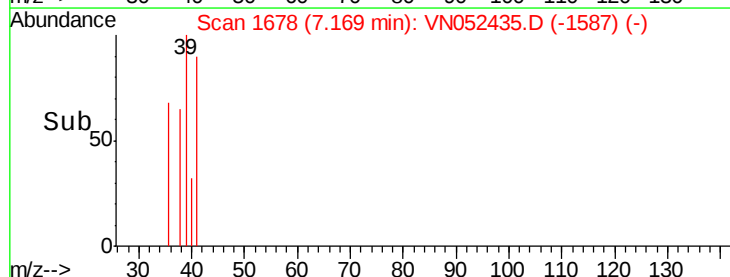
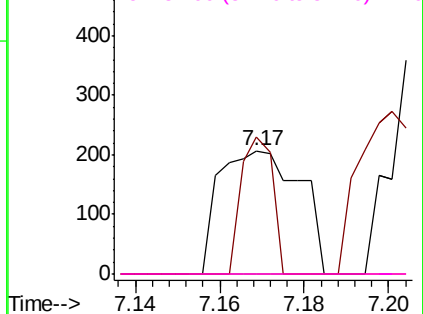
Abundance

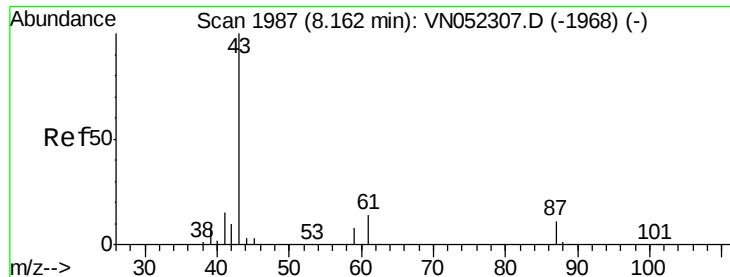
Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.519 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

ClientSampleId :

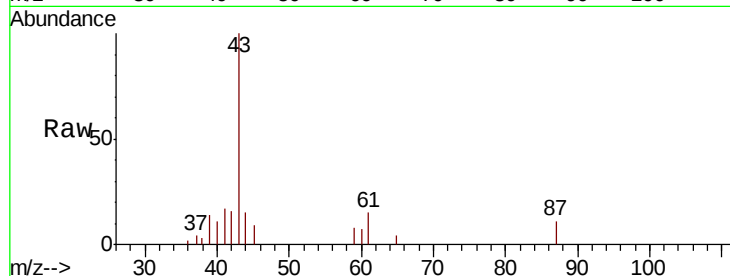
Tot Ion: 43 Resp: 18425

Ion Ratio Lower Upper

43 100

61 15.1 12.0 18.0

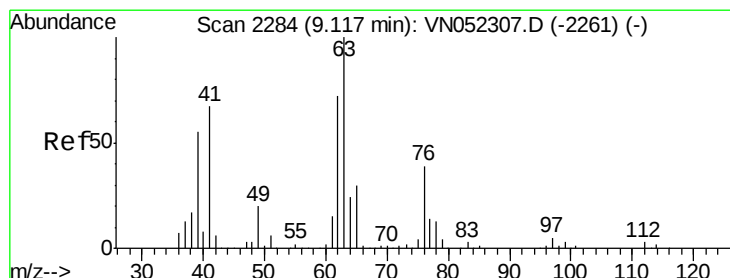
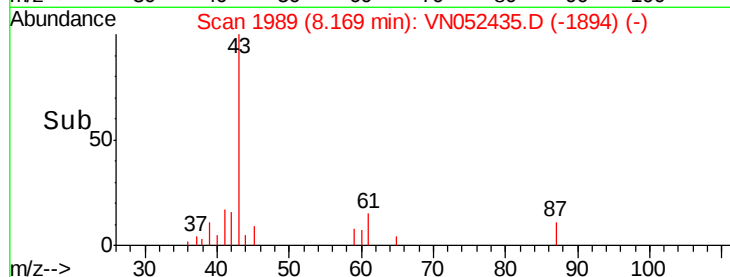
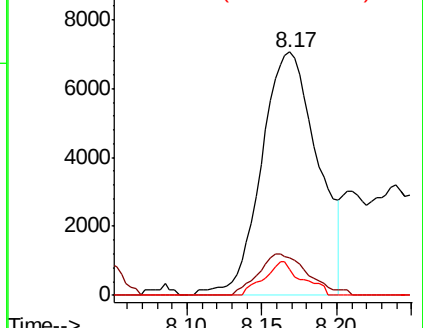
87 9.2 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052435.D

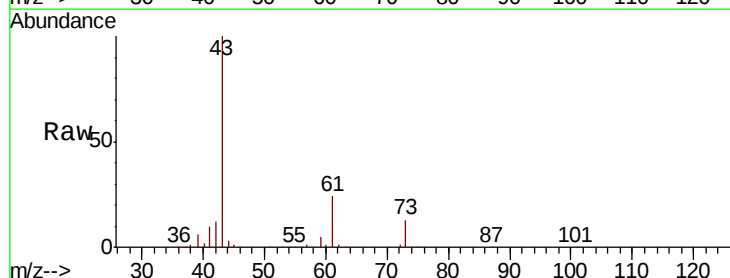
Acq: 21 Nov 2018 13:51

Tgt Ion: 63 Resp: 978

Ion Ratio Lower Upper

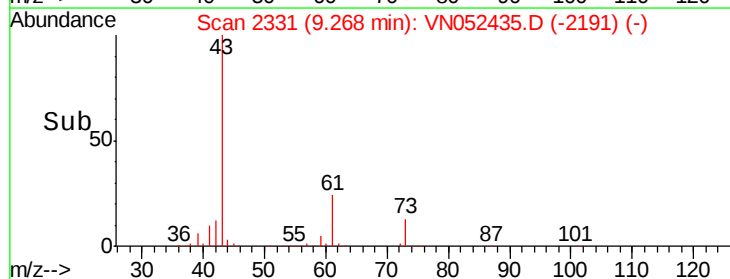
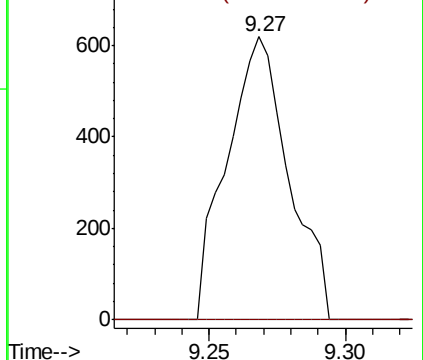
63 100

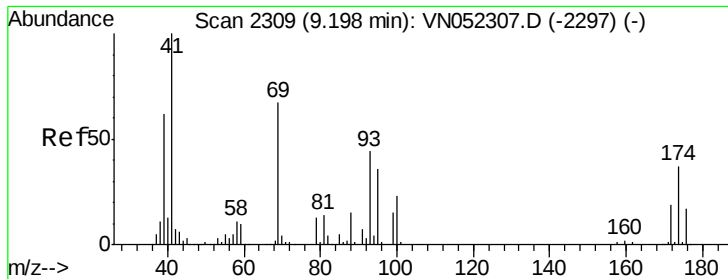
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN052307.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN052307.D (-2261) (-)

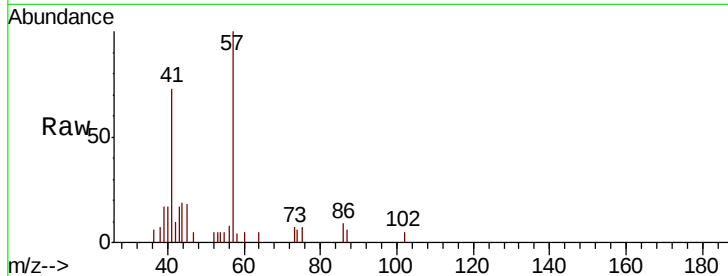




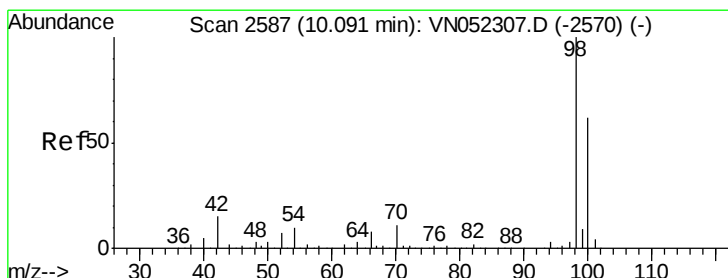
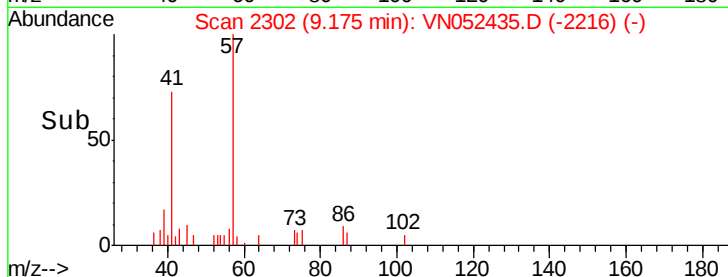
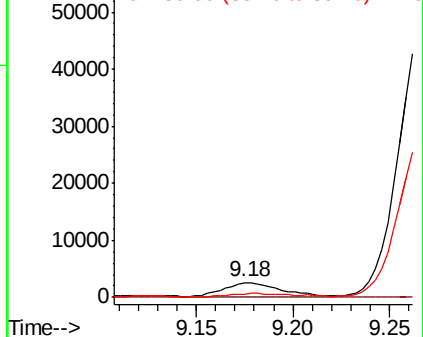
#48
Methyl methacrylate
Concen: 1.309 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 4859
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 36.6 52.5 78.7#

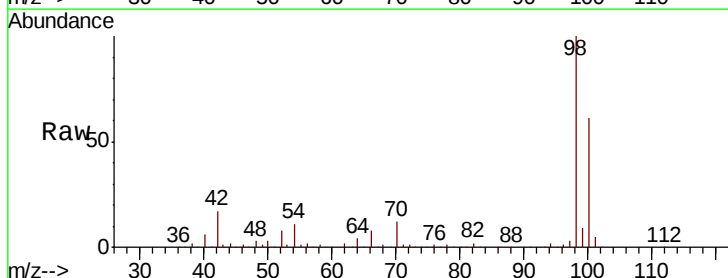


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

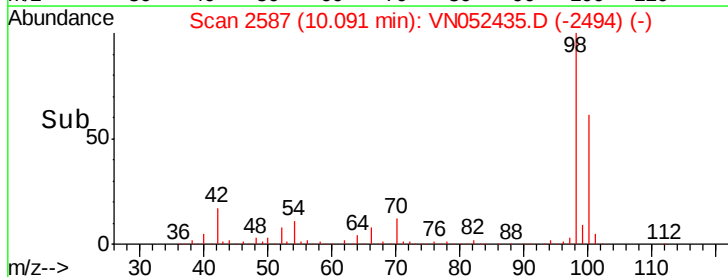
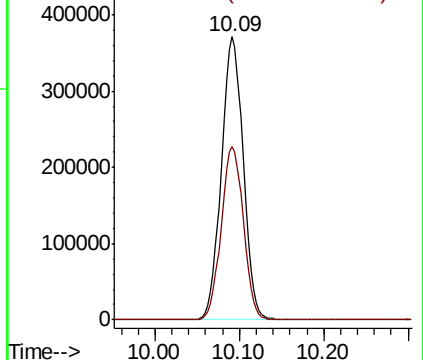


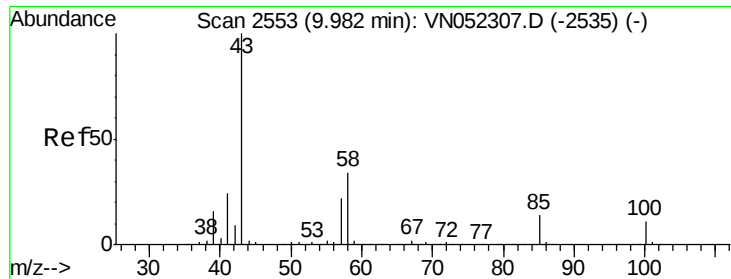
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

Tgt Ion: 98 Resp: 668591
Ion Ratio Lower Upper
98 100
100 61.9 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.423 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

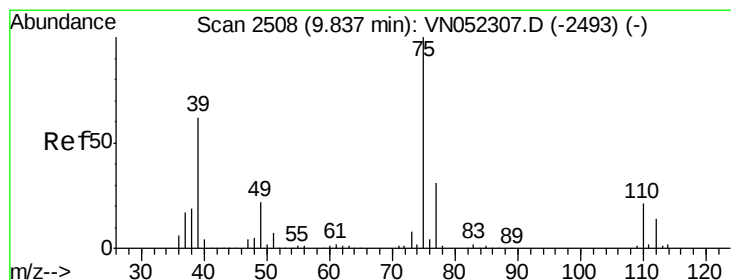
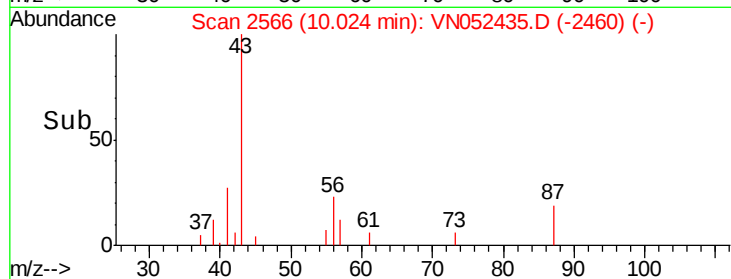
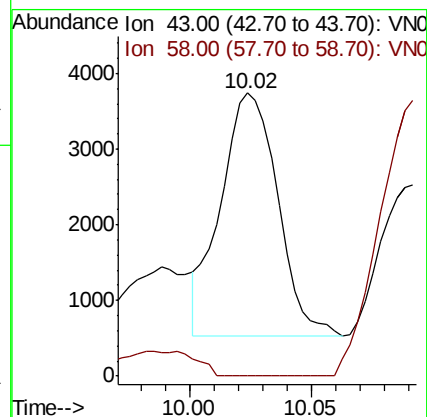
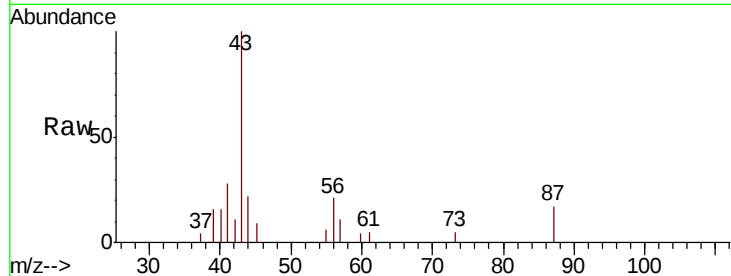
ClientSampled :

Tot Ion: 43 Resp: 5239

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.713 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

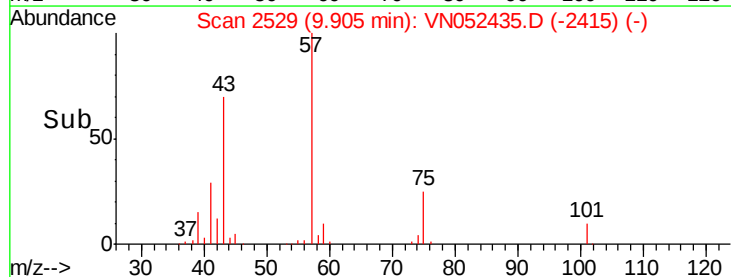
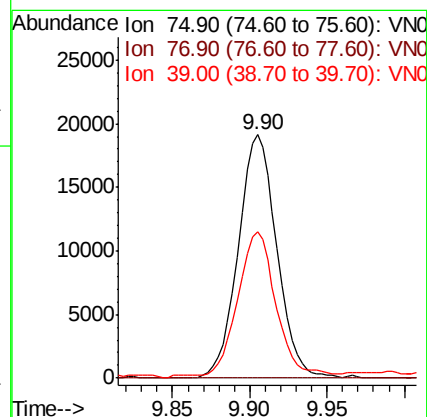
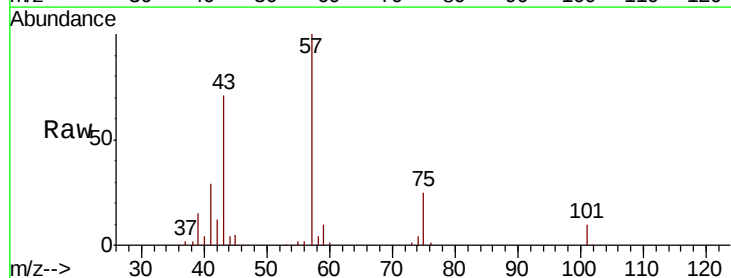
Tgt Ion: 75 Resp: 33046

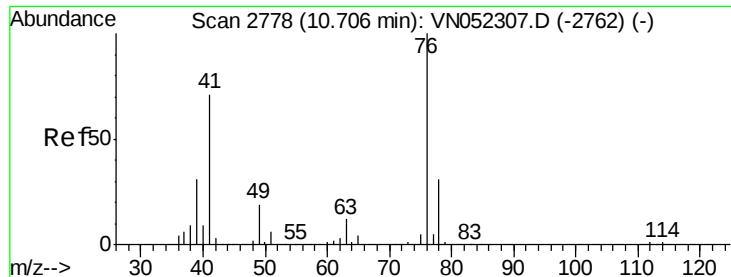
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 59.3 49.9 74.9

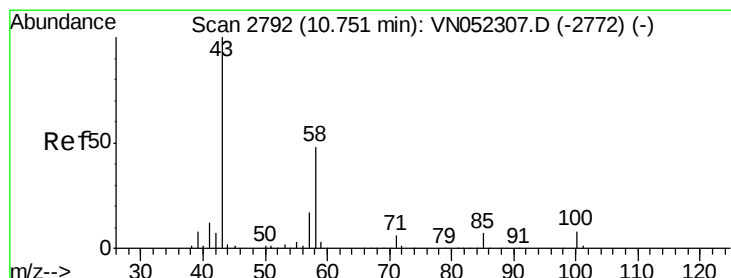
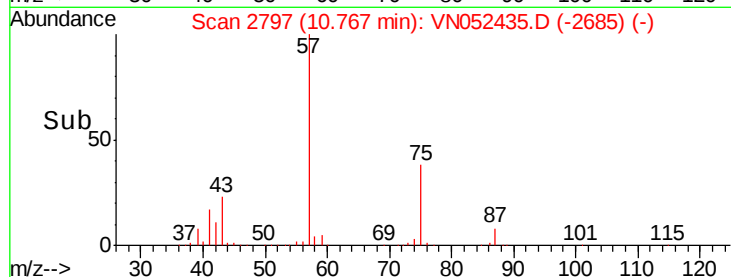
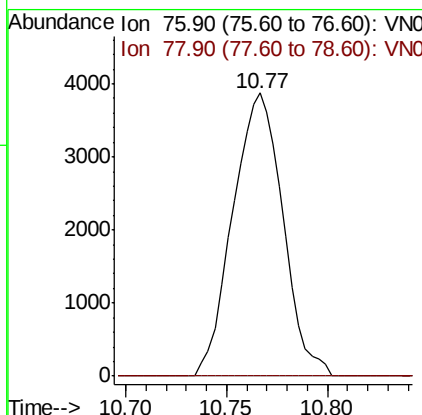
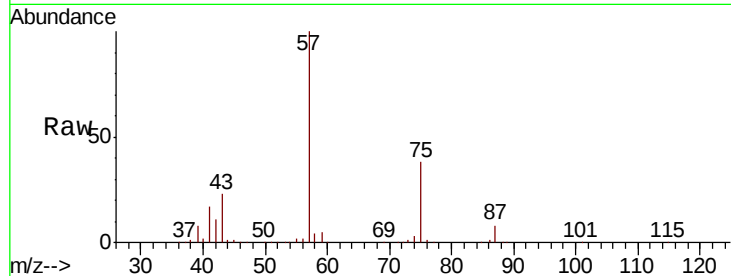




#57
 1,3-Dichloropropane
 Concen: 1.172 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052435.D
 Acq: 21 Nov 2018 13:51

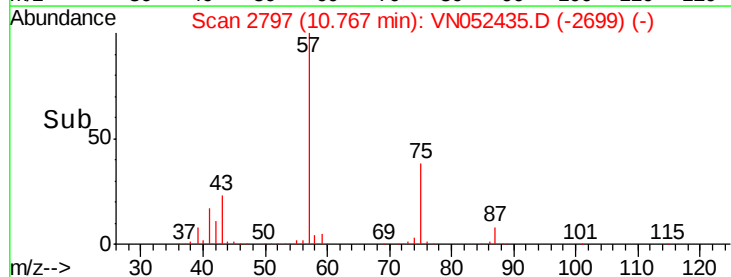
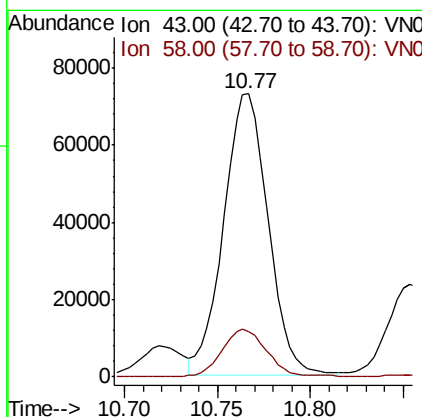
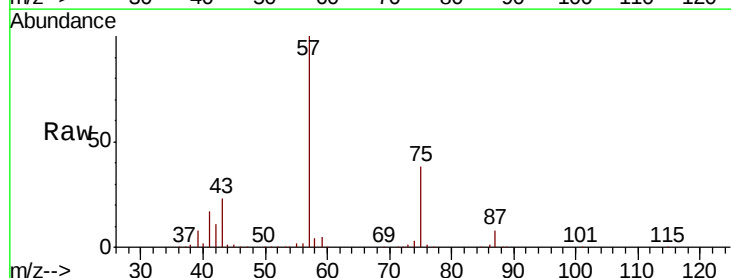
Instrument :
 MSVOA_N
 ClientSampled :

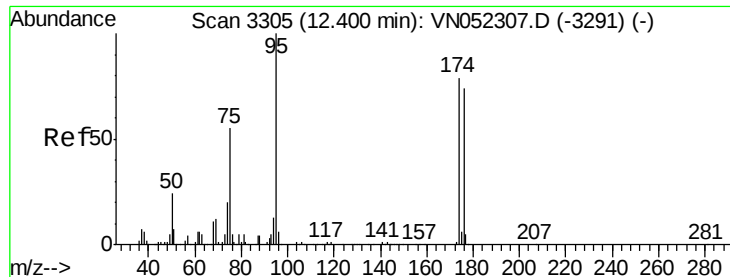
Tot Ion: 76 Resp: 6716
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 48.246 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN052435.D
 Acq: 21 Nov 2018 13:51

Tgt Ion: 43 Resp: 122205
 Ion Ratio Lower Upper
 43 100
 58 17.1 23.5 70.6#

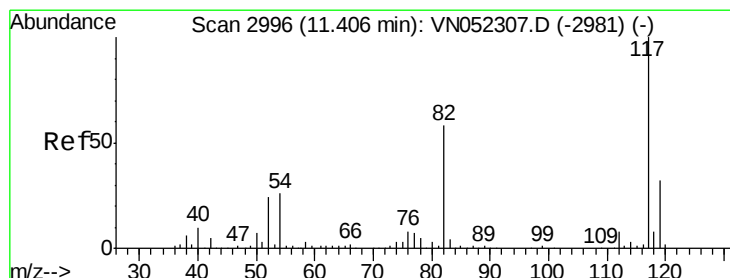
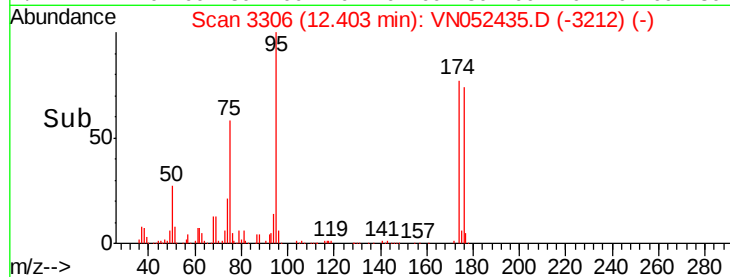
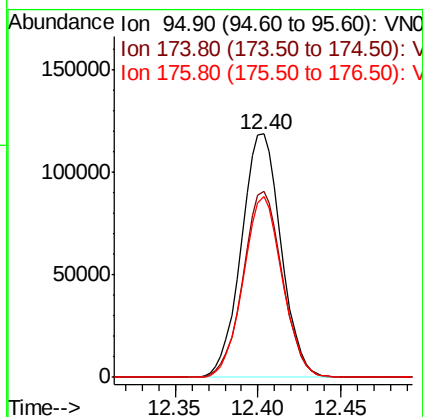
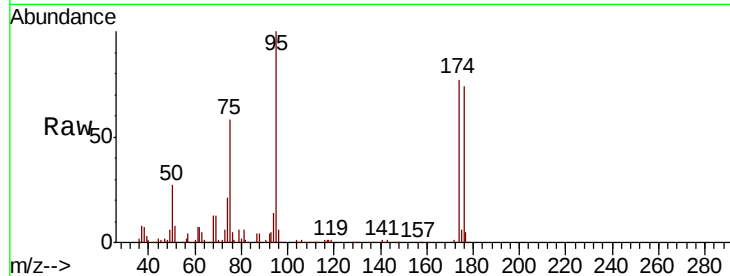




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

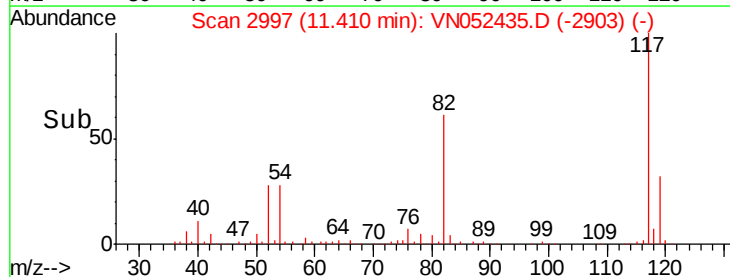
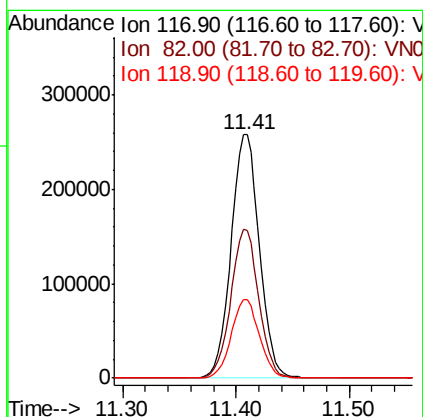
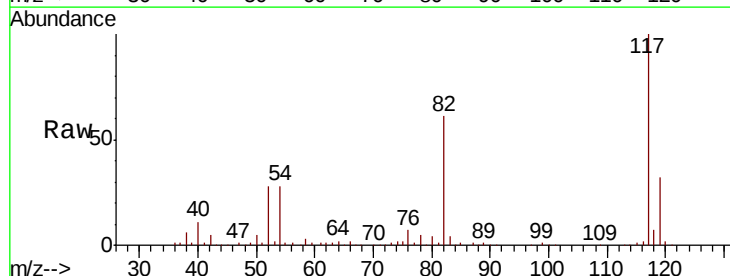
Instrument :
MSVOA_N
ClientSampleId :

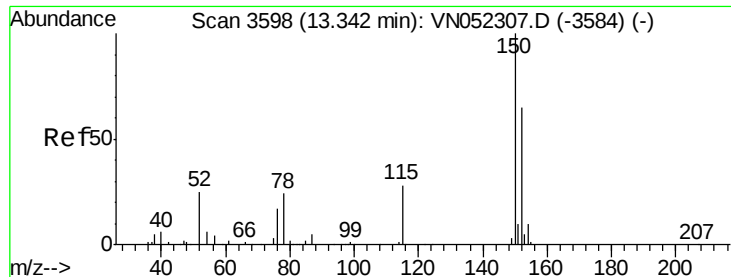
Tot Ion: 95 Resp: 197646
Ion Ratio Lower Upper
95 100
174 75.6 0.0 156.0
176 73.4 0.0 148.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052435.D
Acq: 21 Nov 2018 13:51

Tgt Ion: 117 Resp: 447111
Ion Ratio Lower Upper
117 100
82 60.7 46.5 69.7
119 32.1 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

ClientSampleId :

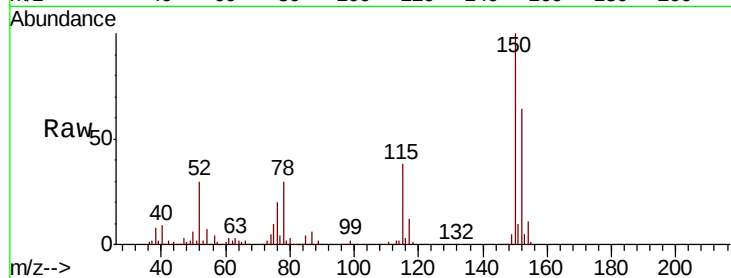
Tot Ion:152 Resp: 153717

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

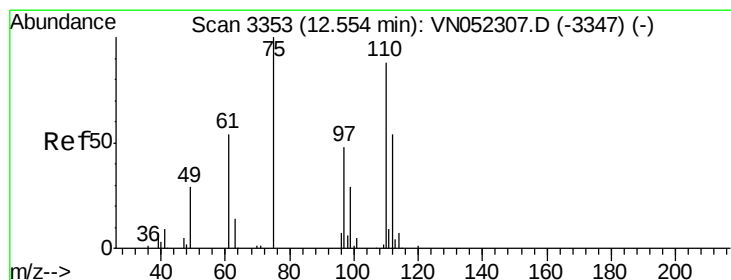
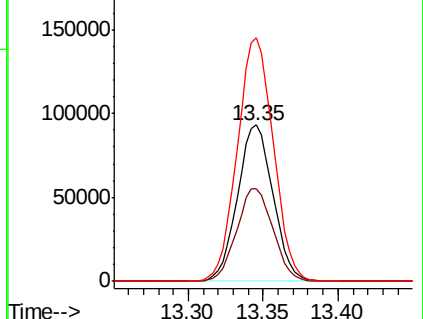
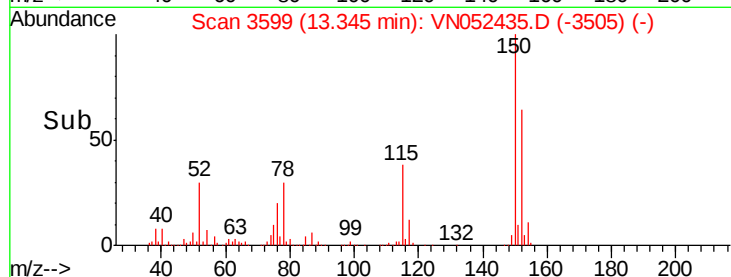
150 158.3 0.0 348.2



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: 44.012 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052435.D

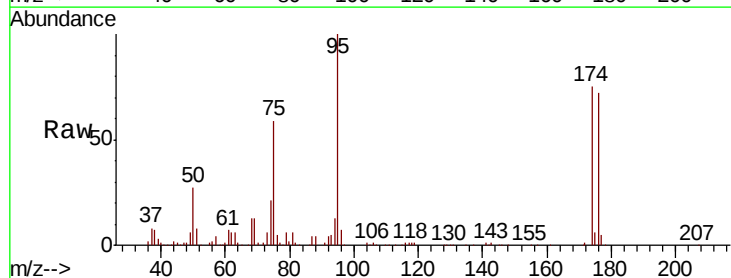
Acq: 21 Nov 2018 13:51

Tgt Ion: 75 Resp: 114795

Ion Ratio Lower Upper

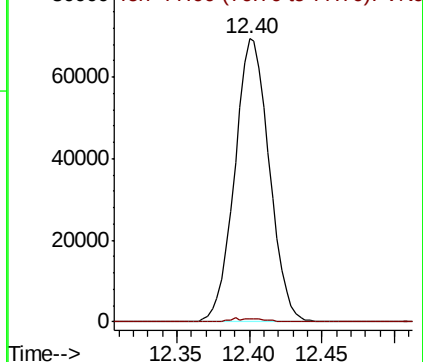
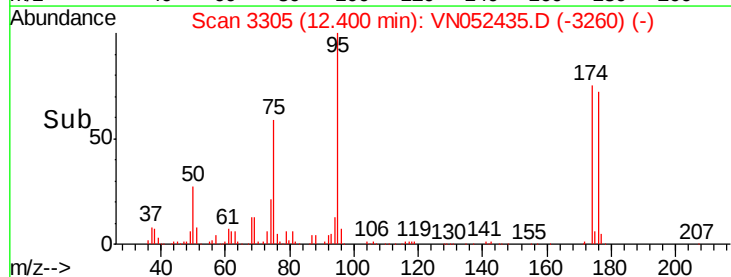
75 100

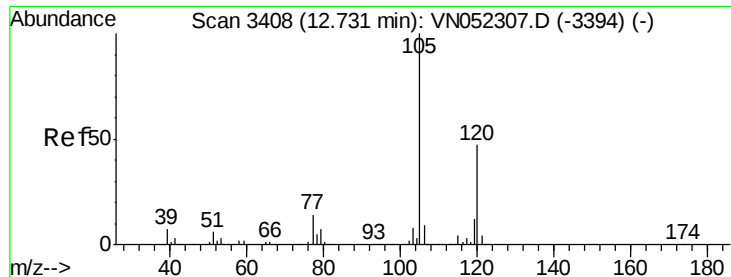
77 0.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.947 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

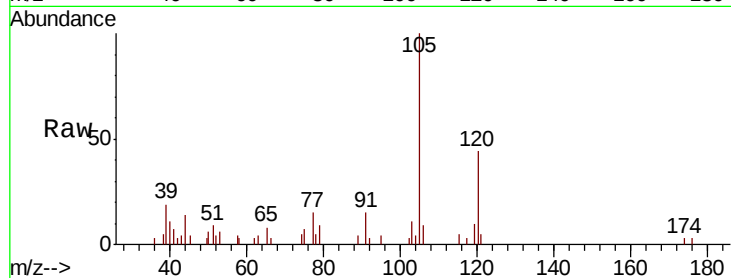
ClientSampleId :

Tot Ion:105 Resp: 9307

Ion Ratio Lower Upper

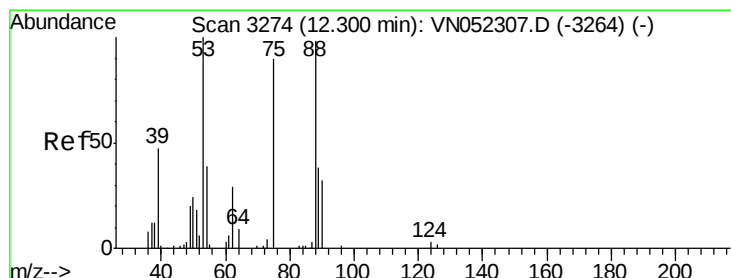
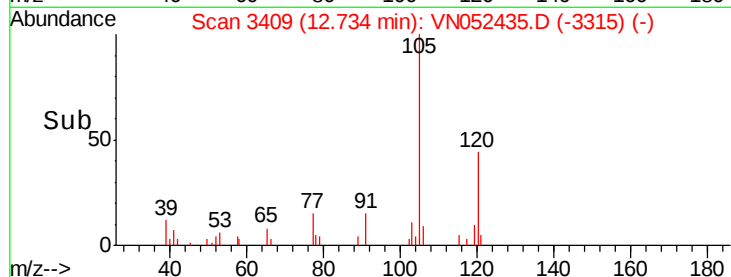
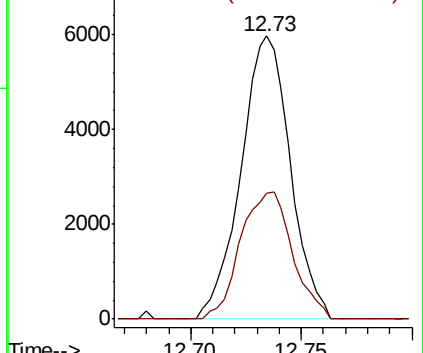
105 100

120 47.1 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 142.747 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

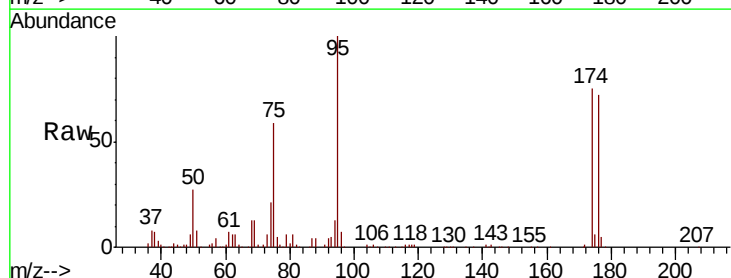
Tgt Ion: 75 Resp: 114795

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

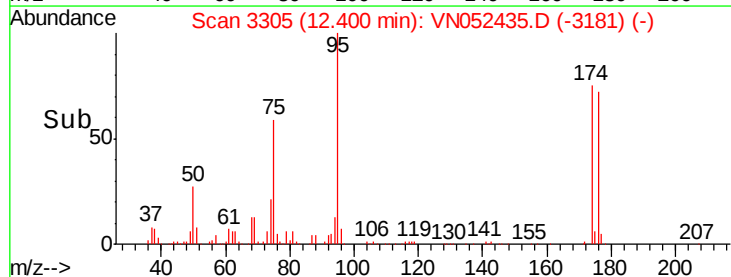
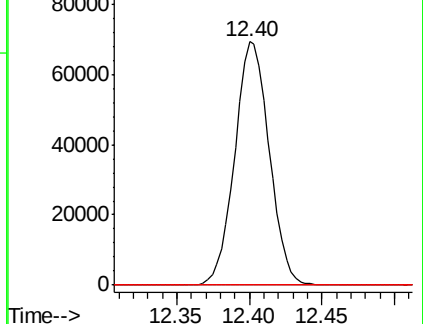
89 0.0 35.4 53.0#

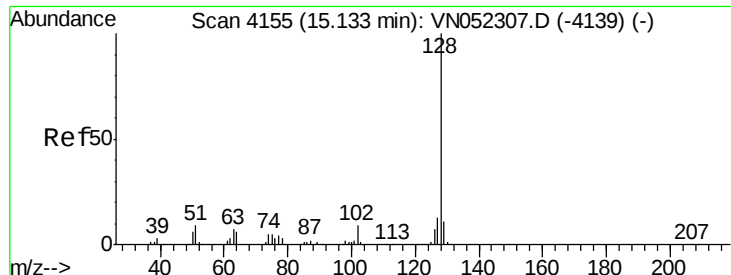


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#95

Naphthalene

Concen: 2.624 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

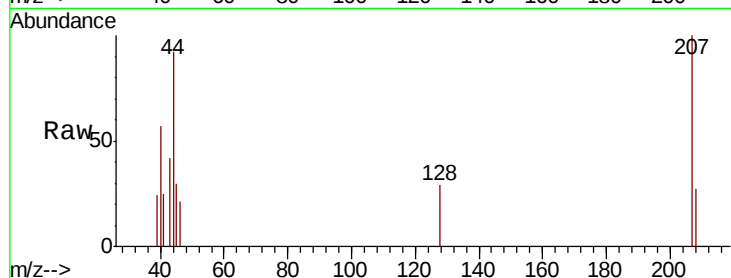
Lab File: VN052435.D

Acq: 21 Nov 2018 13:51

Instrument :

MSVOA_N

ClientSampleId :



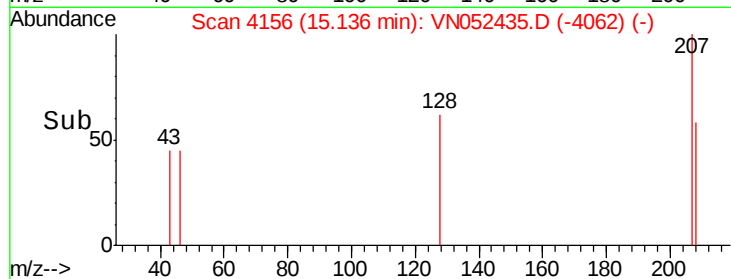
Tot Ion:128 Resp: 111

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

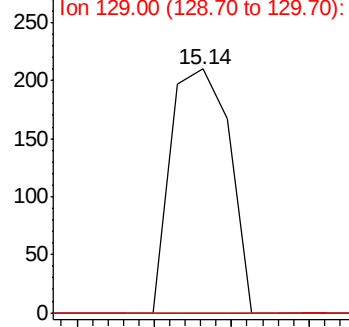
129 0.0 8.6 13.0#



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



Time-->