

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100118\
 Data File : VN051631.D
 Acq On : 1 Oct 2018 12:25
 Operator : MD\SY
 Sample : J5088-01
 Misc : Sample
 ALS Vial : 7 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

Quant Time: Oct 02 01:00:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 01:07:29 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	99679	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	467266	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	397735	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	213718	30.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.63%
60) 4-Bromofluorobenzene	12.40	95	124701	20.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	67.97%
63) Toluene-d8	10.09	98	523809	27.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	93.03%

Target Compounds

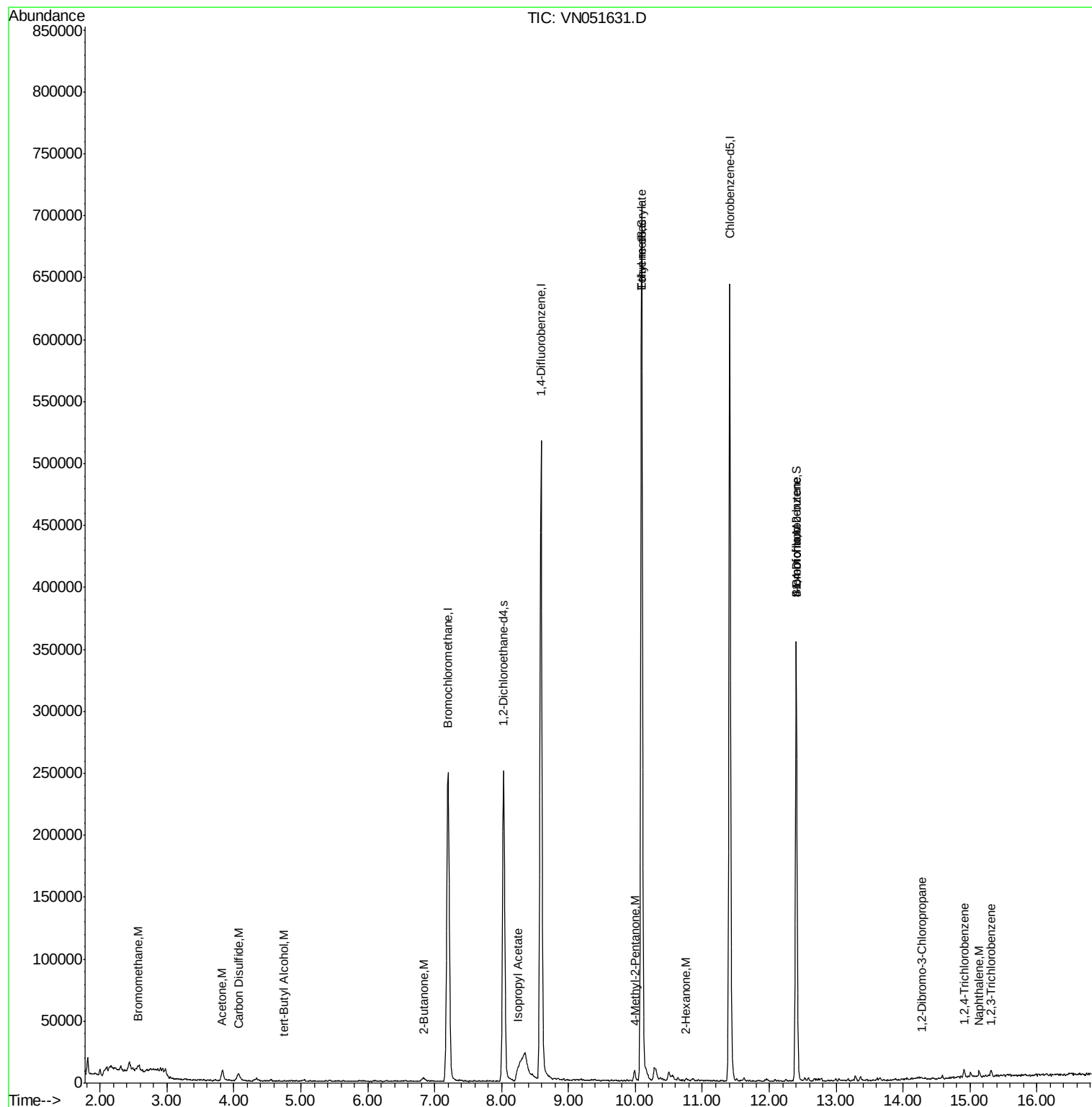
					Ovalue	
5) Bromomethane	2.57	94	1126	0.226	ug/l	85
15) Acetone	3.83	58	3892	6.978	ug/l	84
16) Carbon Disulfide	4.06	76	5454	0.281	ug/l	98
23) tert-Butyl Alcohol	4.75	59	191	0.469	ug/l #	100
30) 2-Butanone	6.85	43	869	0.401	ug/l #	87
44) Isopropyl Acetate	8.24	43	5405	0.601	ug/l #	60
51) Ethyl methacrylate	10.09	69	1659	0.269	ug/l	78
56) Bromoform	12.40	173	1192	0.310	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	6284	1.392	ug/l #	77
59) 2-Hexanone	10.76	43	1242	0.418	ug/l #	75
77) t-1,4-Dichloro-2-butene	12.40	75	59830	37.284	ug/l #	11
88) 1,2-Dibromo-3-Chloropropan	14.27	75	257	0.298	ug/l #	2
89) 1,2,4-Trichlorobenzene	14.91	180	2016	0.415	ug/l	87
91) Naphthalene	15.14	128	4452	8.584	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.31	180	1405	0.287	ug/l	73

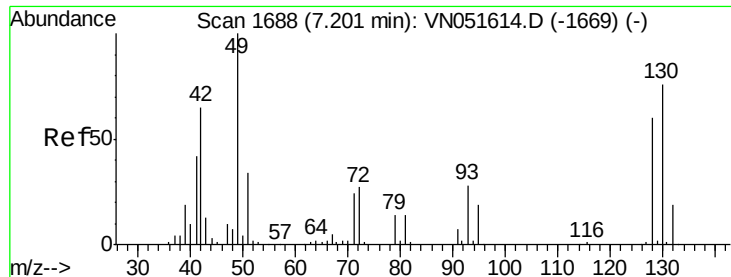
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051631.D

Acq: 1 Oct 2018 12:25

Instrument :
MSVOA_N
ClientSampled :
OF-1

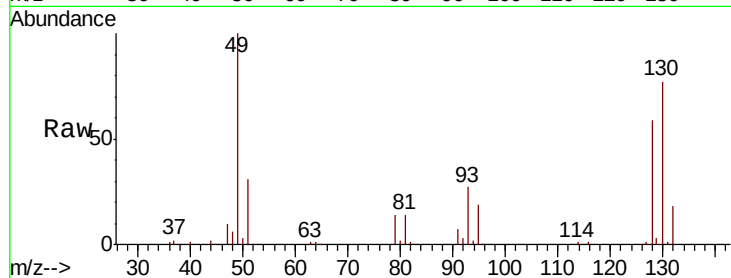
Tot Ion:128 Resp: 99679

Ion Ratio Lower Upper

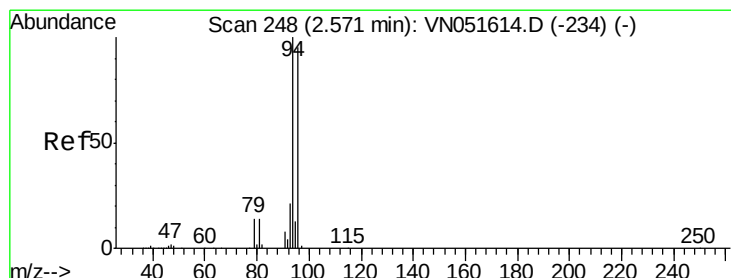
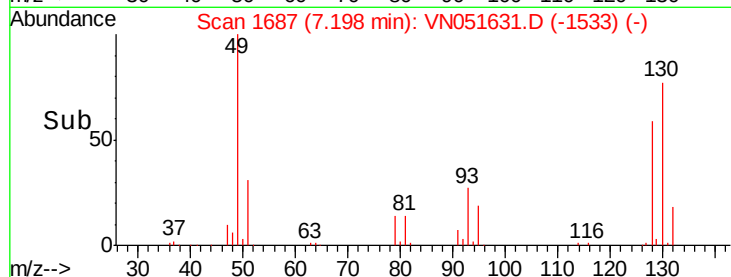
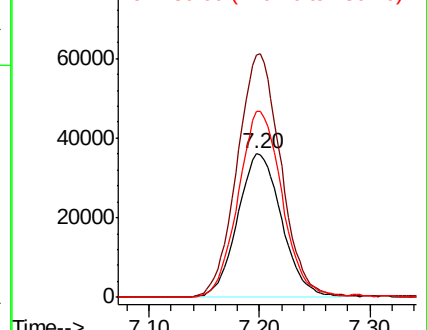
128 100

49 168.5 0.0 426.8

130 129.0 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.226 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN051631.D

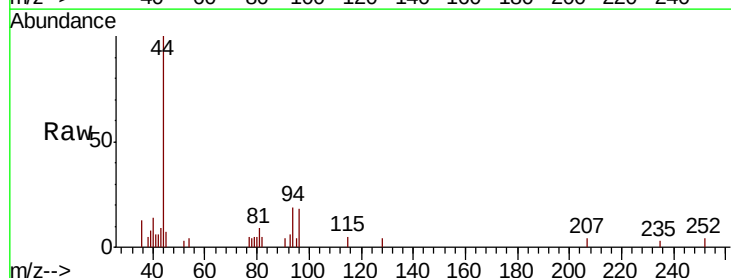
Acq: 1 Oct 2018 12:25

Tgt Ion: 94 Resp: 1126

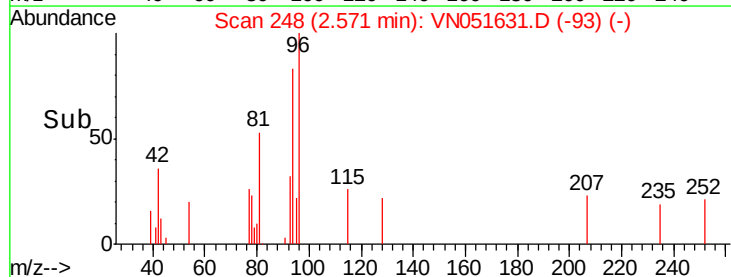
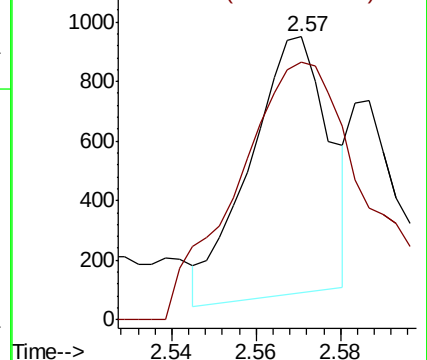
Ion Ratio Lower Upper

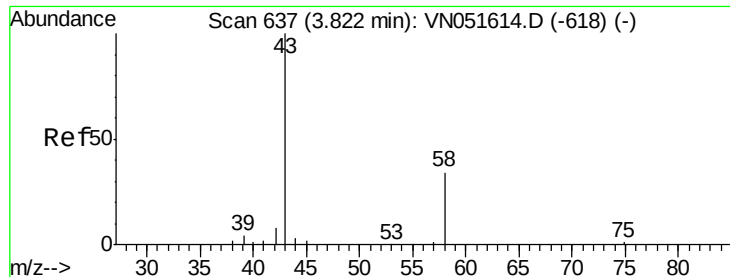
94 100

96 80.6 75.8 113.6



Abundance Ion 94.00 (93.70 to 94.70): VN
Ion 96.00 (95.70 to 96.70): VN





#15

Acetone

Concen: 6.978 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051631.D

Acq: 1 Oct 2018 12:25

Instrument :

MSVOA_N

ClientSampled :

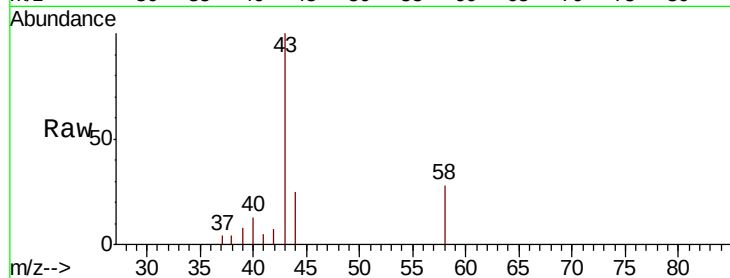
OF-1

Tot Ion: 58 Resp: 3892

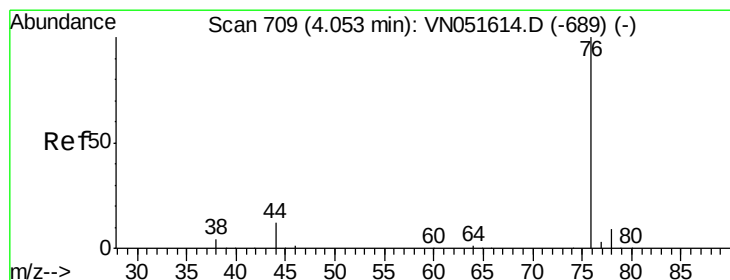
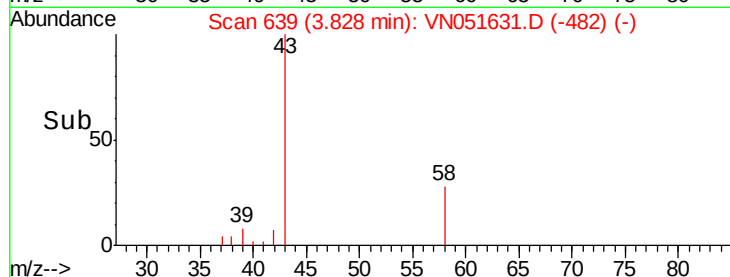
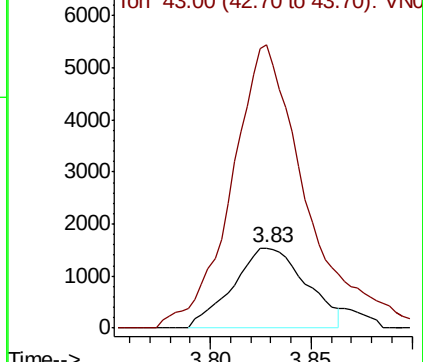
Ion Ratio Lower Upper

58 100

43 328.9 238.0 357.0



Abundance Ion 58.00 (57.70 to 58.70): VN051631.D (-482) (-)



#16

Carbon Disulfide

Concen: 0.281 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.01 min

Lab File: VN051631.D

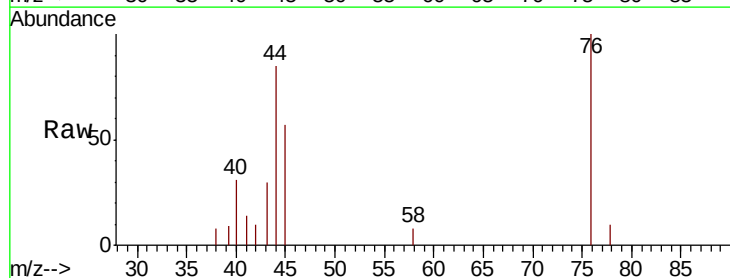
Acq: 1 Oct 2018 12:25

Tgt Ion: 76 Resp: 5454

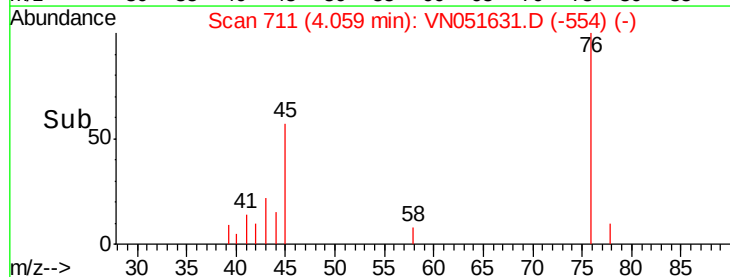
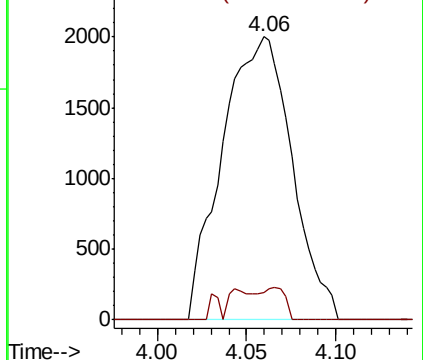
Ion Ratio Lower Upper

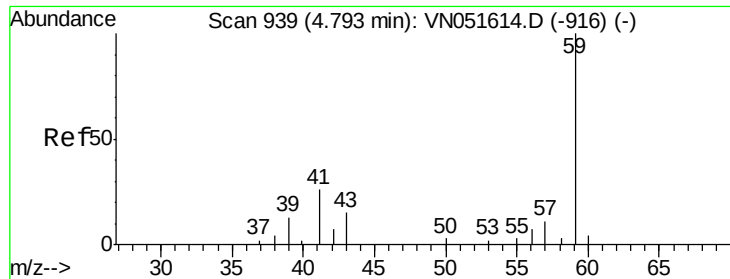
76 100

78 9.6 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN051631.D (-554) (-)

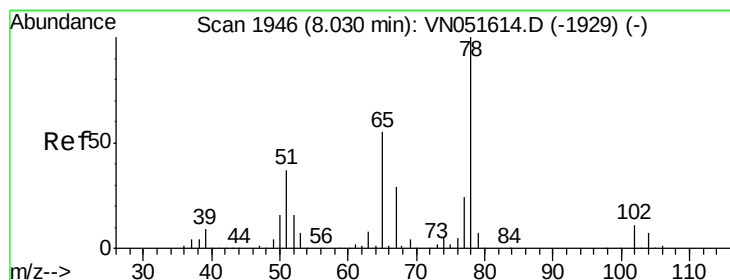
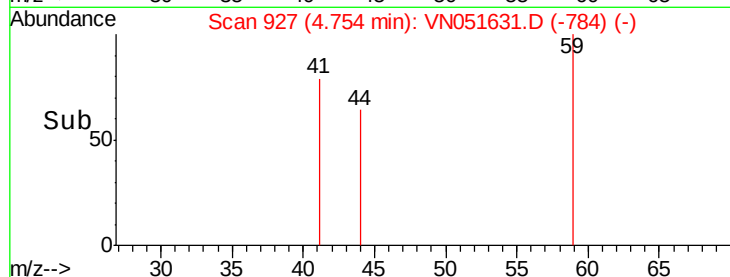
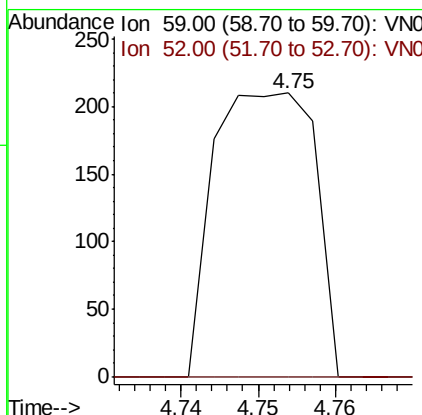
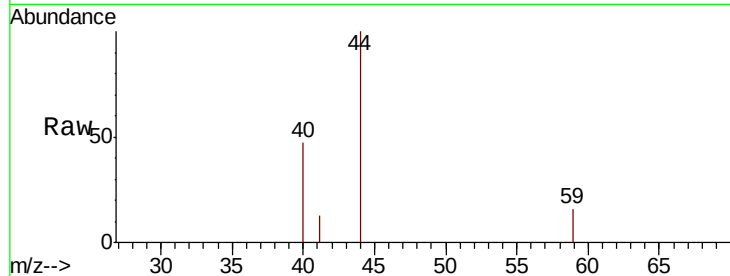




#23
 tert-Butyl Alcohol
 Concen: 0.469 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.04 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

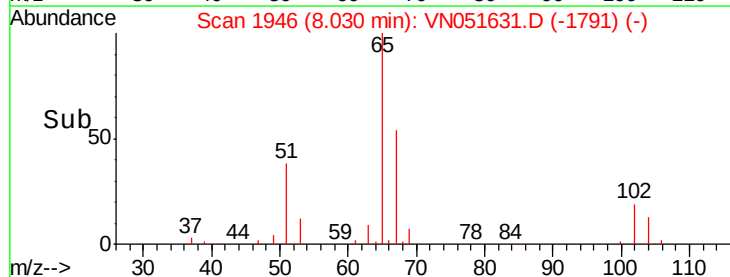
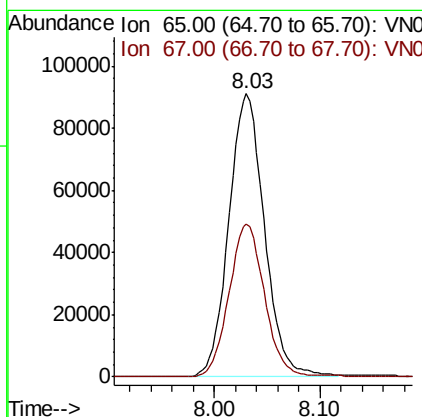
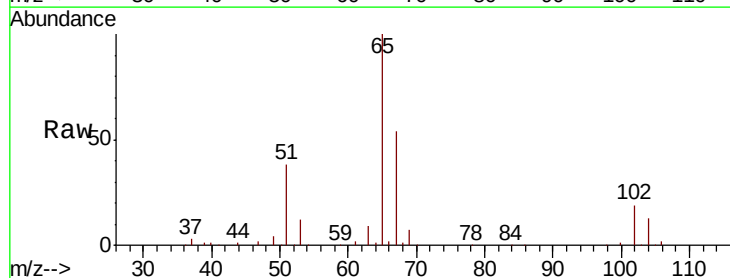
Instrument :
 MSVOA_N
 ClientSampled :
 OF-1

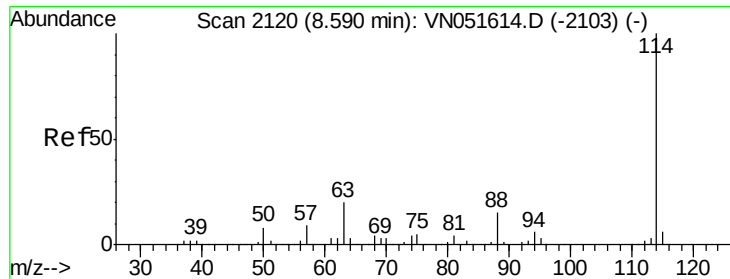
Tot Ion: 59 Resp: 191
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. -0.00 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Tgt Ion: 65 Resp: 213718
 Ion Ratio Lower Upper
 65 100
 67 53.6 43.1 64.7

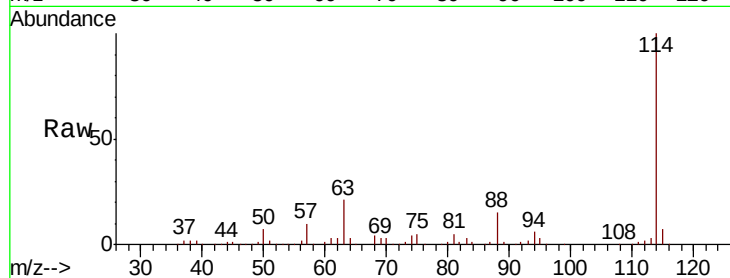




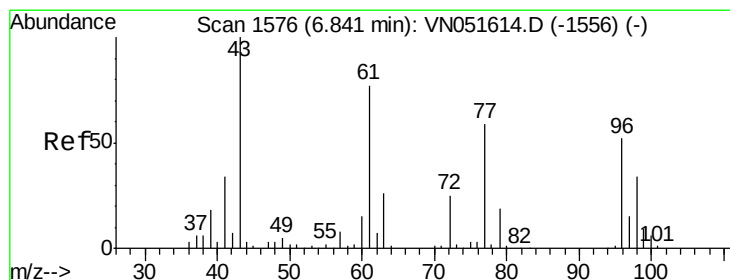
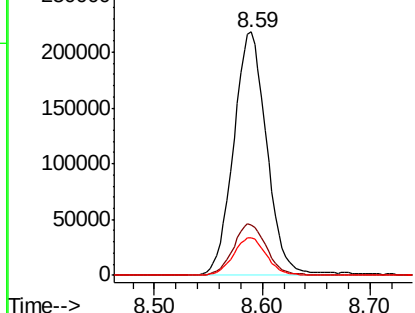
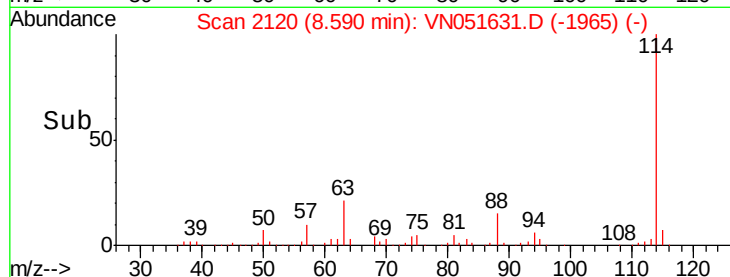
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. -0.00 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Instrument :
 MSVOA_N
 ClientSampled :
 OF-1

Tot Ion:114 Resp: 467266
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.4 24.6
 88 15.4 12.6 18.8

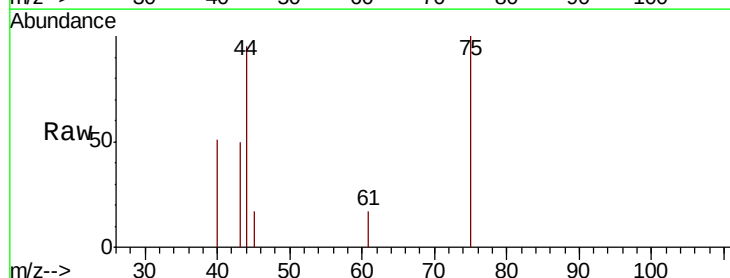


Abundance Ion 114.00 (113.70 to 114.70): VN051631.D (-1965) (-)
 Ion 63.00 (62.70 to 63.70): VN051631.D (-1965) (-)
 Ion 88.00 (87.70 to 88.70): VN051631.D (-1965) (-)

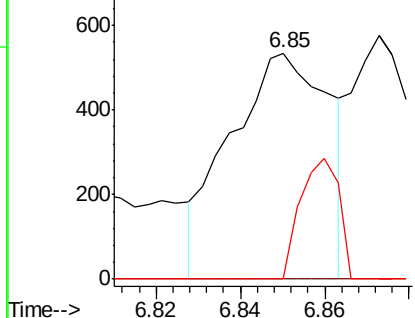
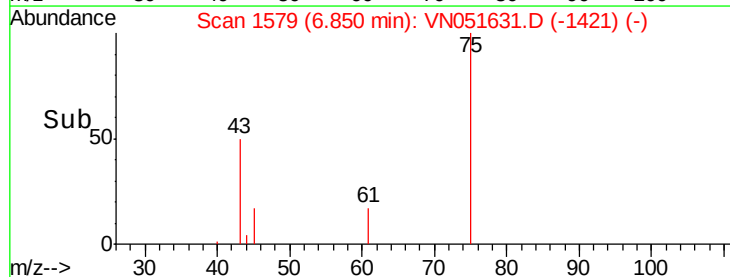


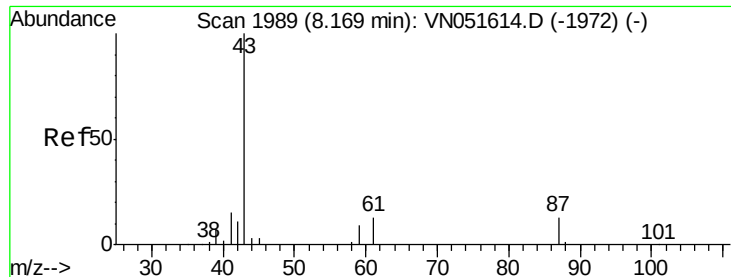
#30
 2-Butanone
 Concen: 0.401 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Tgt Ion: 43 Resp: 869
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.6 10.0#
 72 20.8 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VN051631.D (-1421) (-)
 Ion 57.00 (56.70 to 57.70): VN051631.D (-1421) (-)
 Ion 72.00 (71.70 to 72.70): VN051631.D (-1421) (-)





#44

Isopropyl Acetate

Concen: 0.601 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.07 min

Lab File: VN051631.D

Acq: 1 Oct 2018 12:25

Instrument :

MSVOA_N

ClientSampled :

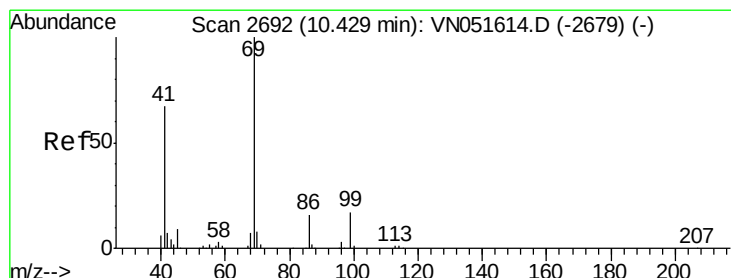
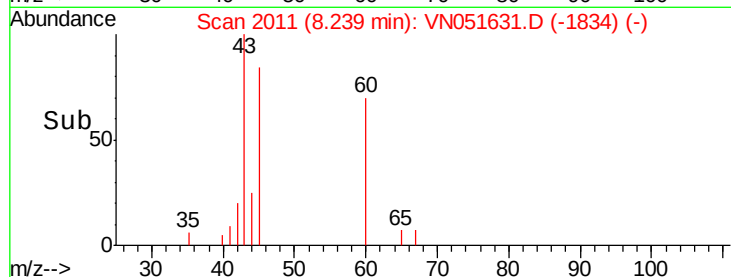
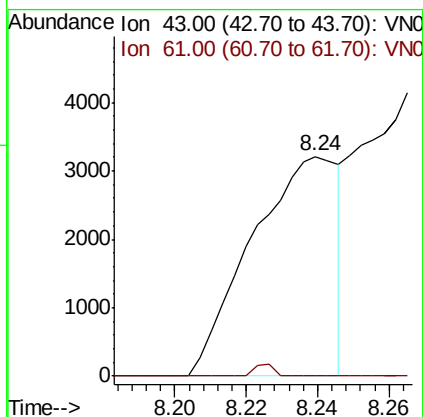
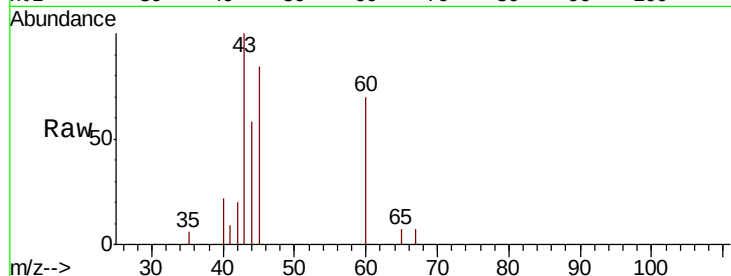
OF-1

Tot Ion: 43 Resp: 5405

Ion Ratio Lower Upper

43 100

61 1.2 15.4 23.0#



#51

Ethyl methacrylate

Concen: 0.269 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN051631.D

Acq: 1 Oct 2018 12:25

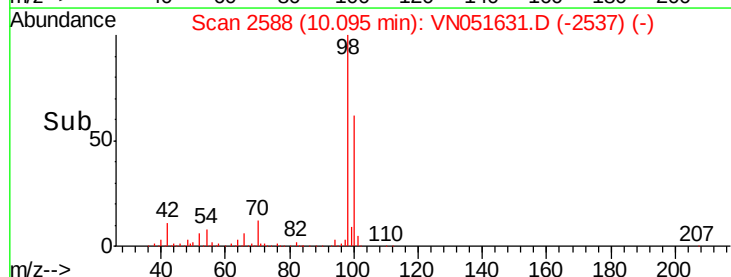
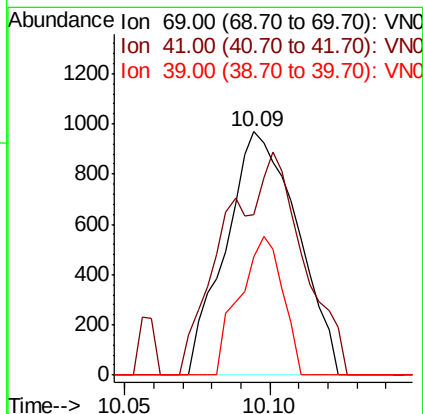
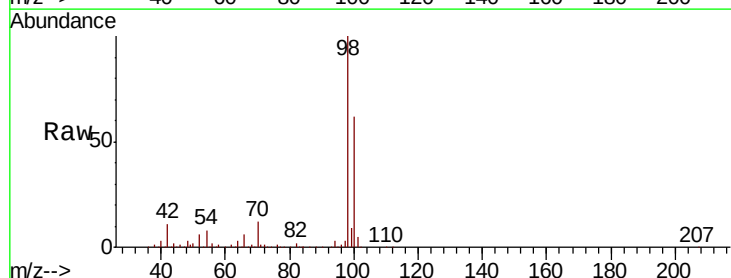
Tgt Ion: 69 Resp: 1659

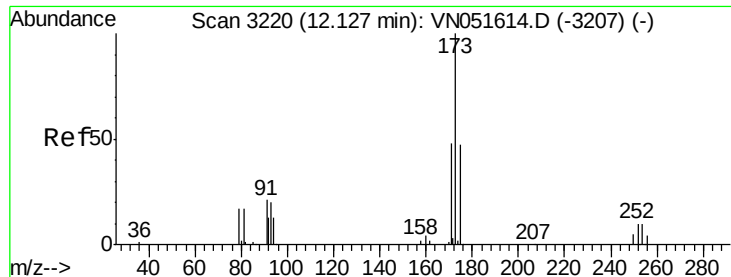
Ion Ratio Lower Upper

69 100

41 49.6 33.3 99.8

39 48.4 17.2 51.6

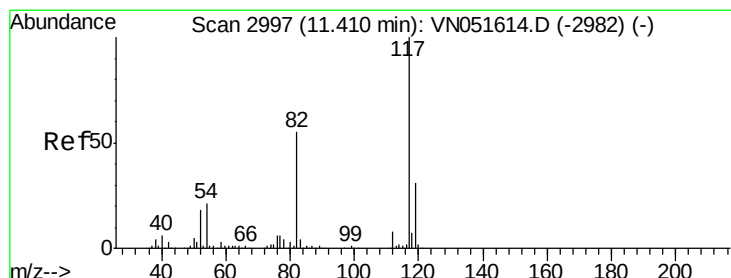
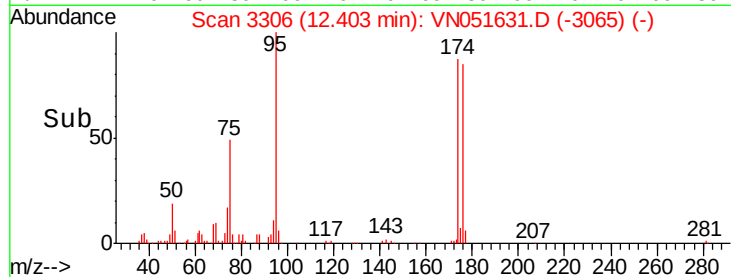
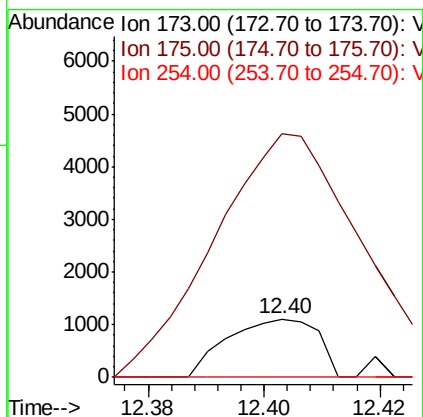
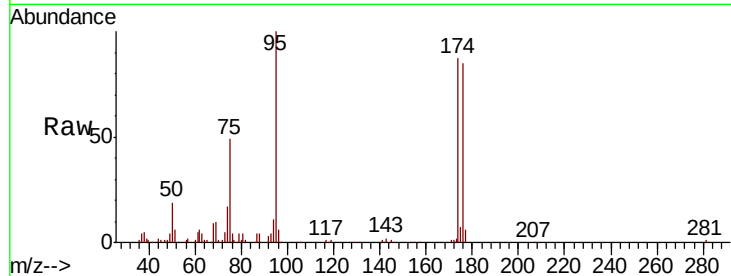




#56
Bromoform
Concen: 0.310 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

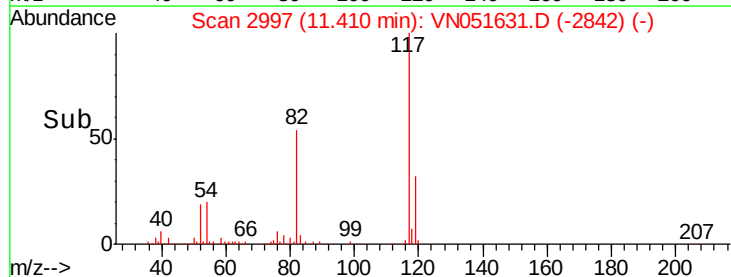
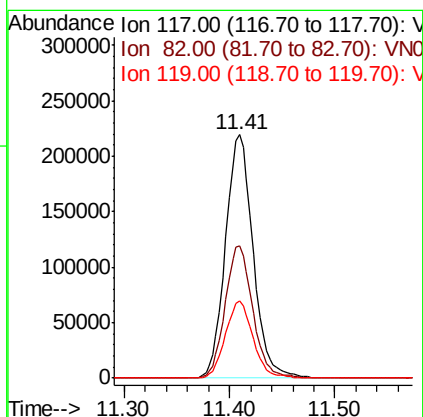
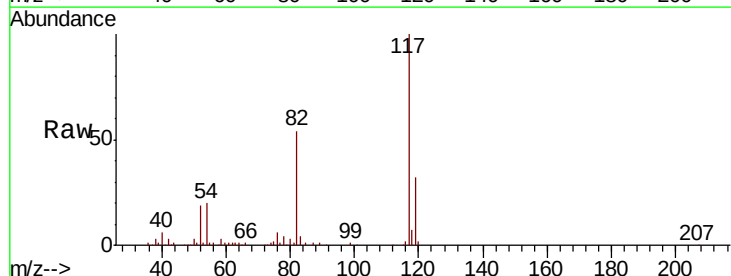
Instrument :
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OF-1

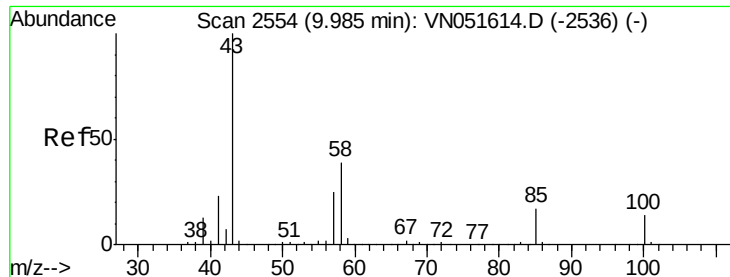
Tot Ion:173 Resp: 1192
Ion Ratio Lower Upper
173 100
175 680.0 39.0 58.4#
254 0.0 8.7 13.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

Tgt Ion:117 Resp: 397735
Ion Ratio Lower Upper
117 100
82 54.2 44.2 66.2
119 31.7 25.2 37.8

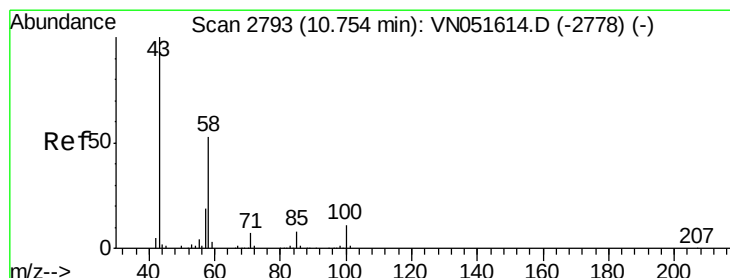
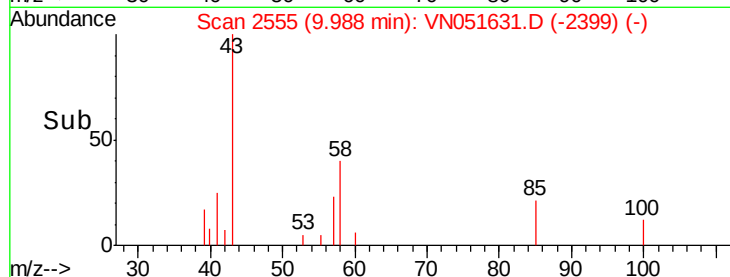
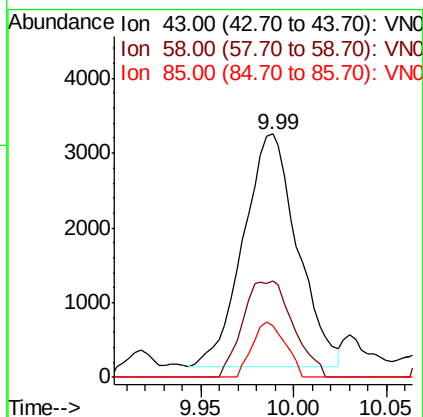
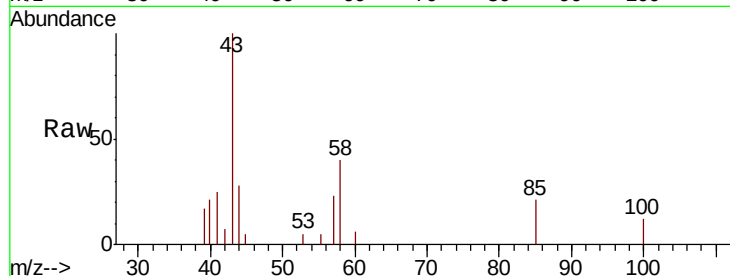




#58
4-Methyl-2-Pentanone
Concen: 1.392 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

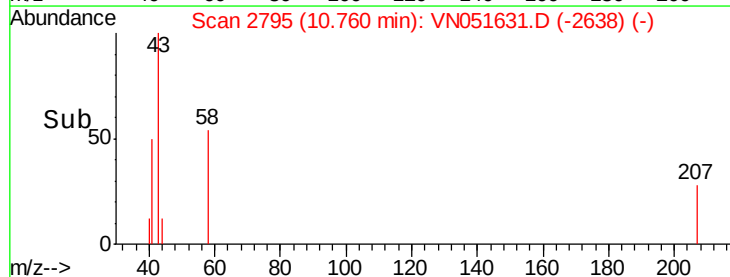
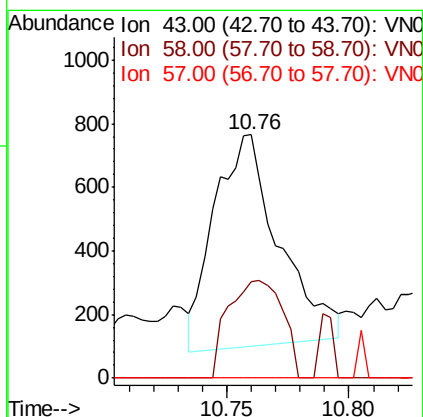
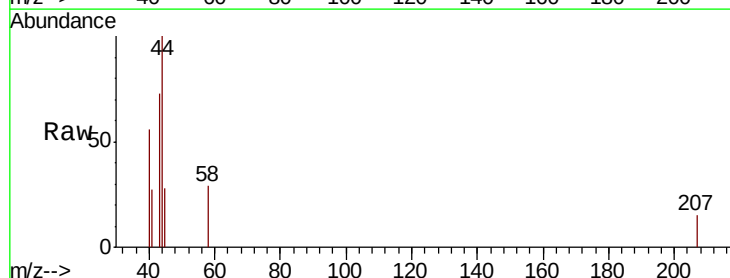
Instrument :
MSVOA_N
ClientSampleId :
OF-1

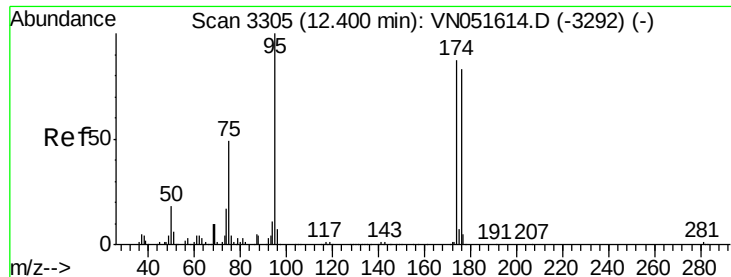
Tot Ion: 43 Resp: 6284
Ion Ratio Lower Upper
43 100
58 19.9 31.0 46.4#
85 14.4 13.4 20.2



#59
2-Hexanone
Concen: 0.418 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

Tgt Ion: 43 Resp: 1242
Ion Ratio Lower Upper
43 100
58 38.3 41.5 62.3#
57 0.0 14.2 21.4#

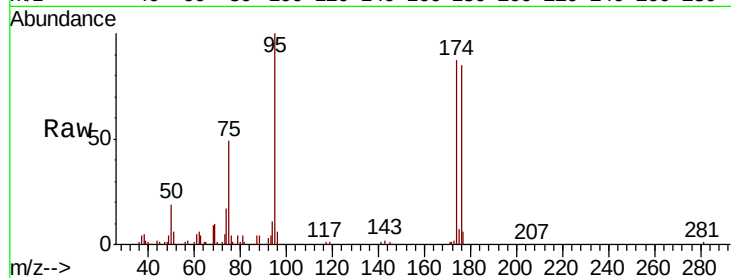




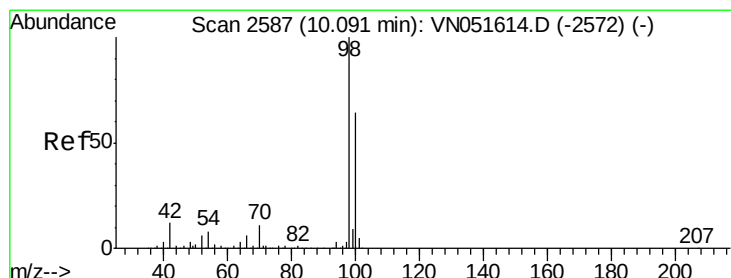
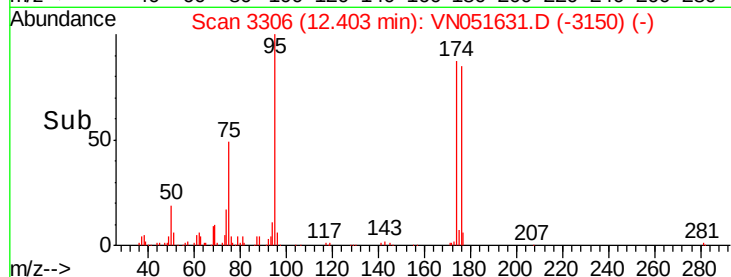
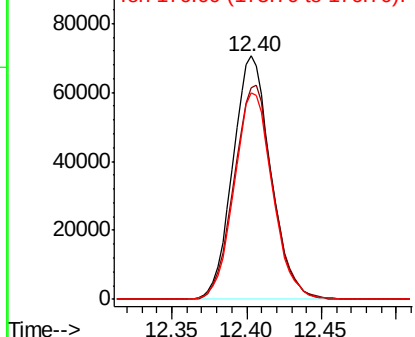
#60
4-Bromofluorobenzene
Concen: 0.418 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

Instrument :
MSVOA_N
ClientSampleId :
OF-1

Tot Ion: 95 Resp: 124701
Ion Ratio Lower Upper
95 100
174 89.7 71.2 106.8
176 85.7 67.8 101.8

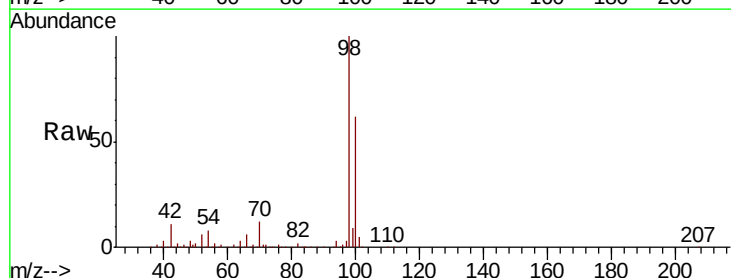


Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

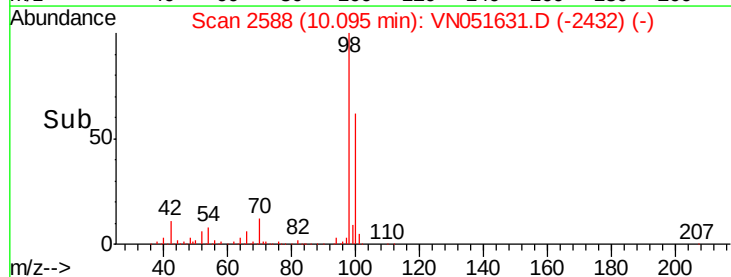
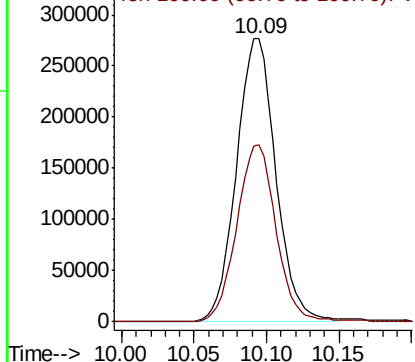


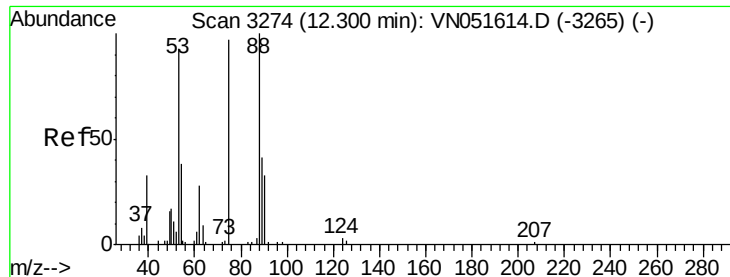
#63
Toluene-d8
Concen: Below ug/l
RT: 10.09 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

Tgt Ion: 98 Resp: 523809
Ion Ratio Lower Upper
98 100
100 62.1 51.4 77.0



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

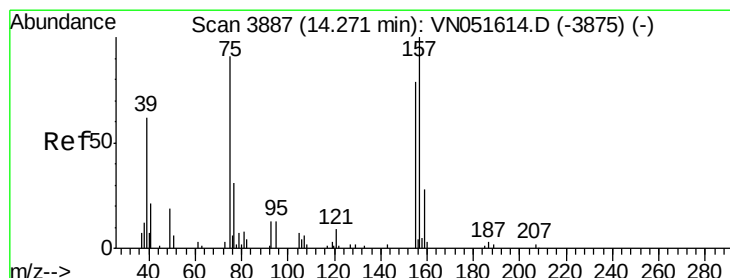
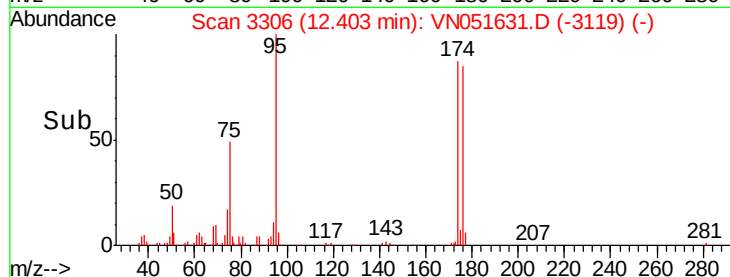
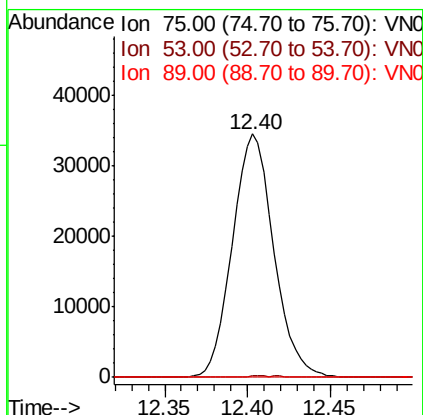
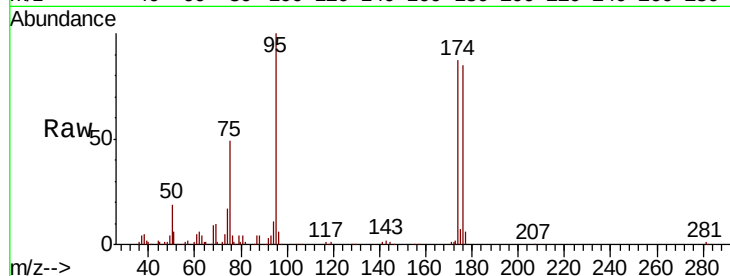




#77
t-1,4-Dichloro-2-butene
Concen: 37.284 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

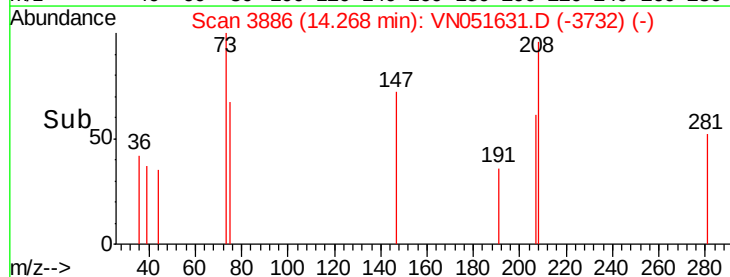
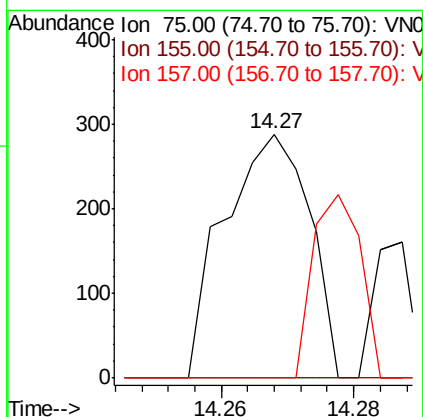
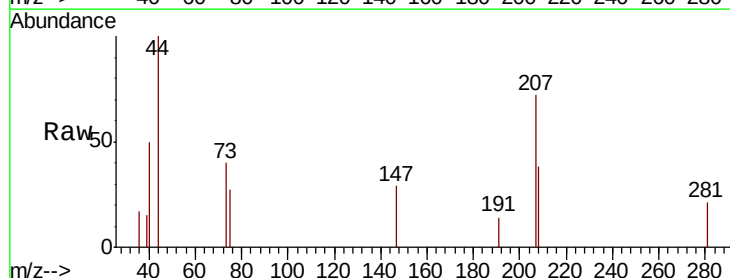
Instrument :
MSVOA_N
ClientSampleId :
OF-1

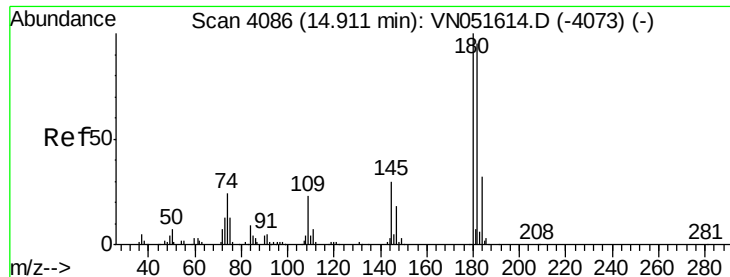
Tot Ion: 75 Resp: 59830
Ion Ratio Lower Upper
75 100
53 0.5 48.1 144.4#
89 0.0 22.4 67.3#



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.298 ug/l
RT: 14.27 min Scan# 3886
Delta R.T. -0.00 min
Lab File: VN051631.D
Acq: 1 Oct 2018 12:25

Tgt Ion: 75 Resp: 257
Ion Ratio Lower Upper
75 100
155 0.0 67.1 100.7#
157 0.0 85.8 128.6#

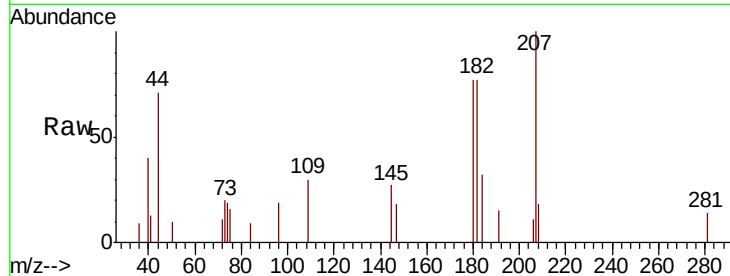




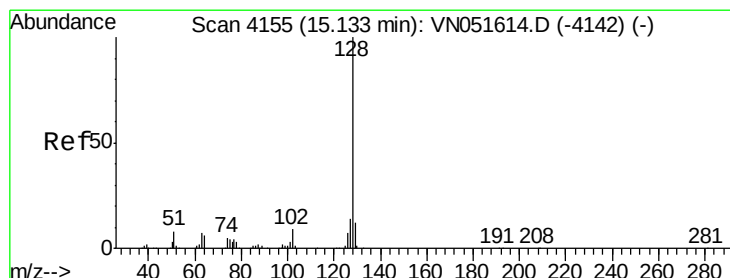
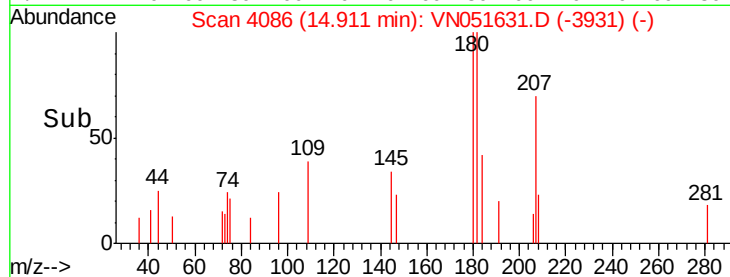
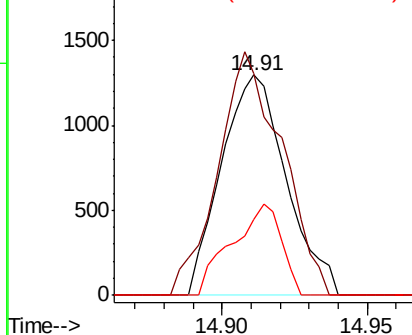
#89
 1,2,4-Trichlorobenzene
 Concen: 0.415 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Instrument :
 MSVOA_N
 ClientSampled :
 OF-1

Tot Ion:180 Resp: 2016
 Ion Ratio Lower Upper
 180 100
 182 108.3 75.2 112.8
 145 31.8 22.9 34.3

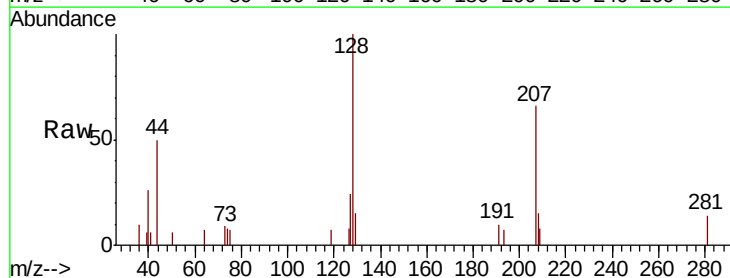


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

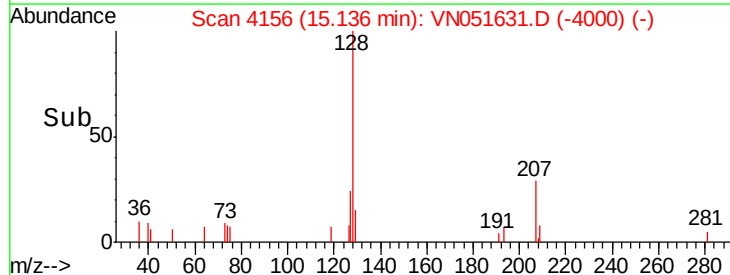
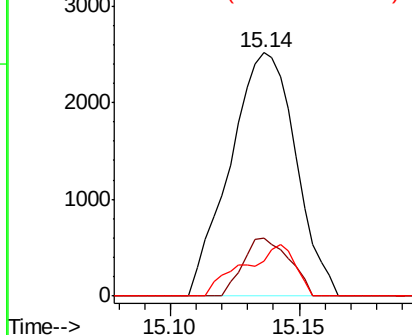


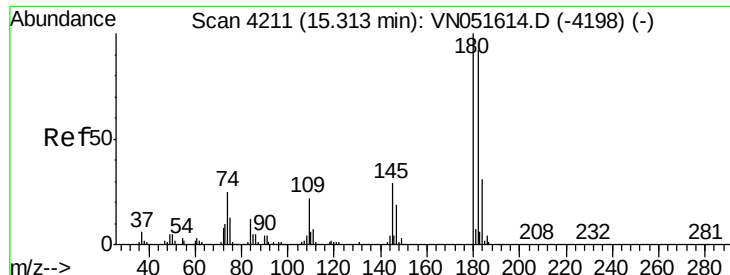
#91
 Naphthalene
 Concen: 8.584 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Tgt Ion:128 Resp: 4452
 Ion Ratio Lower Upper
 128 100
 127 16.9 10.8 16.2#
 129 10.1 9.1 13.7



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





#92
 1,2,3-Trichlorobenzene
 Concen: 0.287 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN051631.D
 Acq: 1 Oct 2018 12:25

Instrument :
 MSVOA_N
 ClientSampleId :
 OF-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	119.4	0.0	191.8
145	50.2	0.0	60.4

