

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN010319\
 Data File : VN053256.D
 Acq On : 3 Jan 2019 12:30
 Operator : MD\SY
 Sample : PB116111ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#01

Quant Time: Jan 04 00:53:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1179069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1842564	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1623890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	583267	50.00	ug/l	0.00

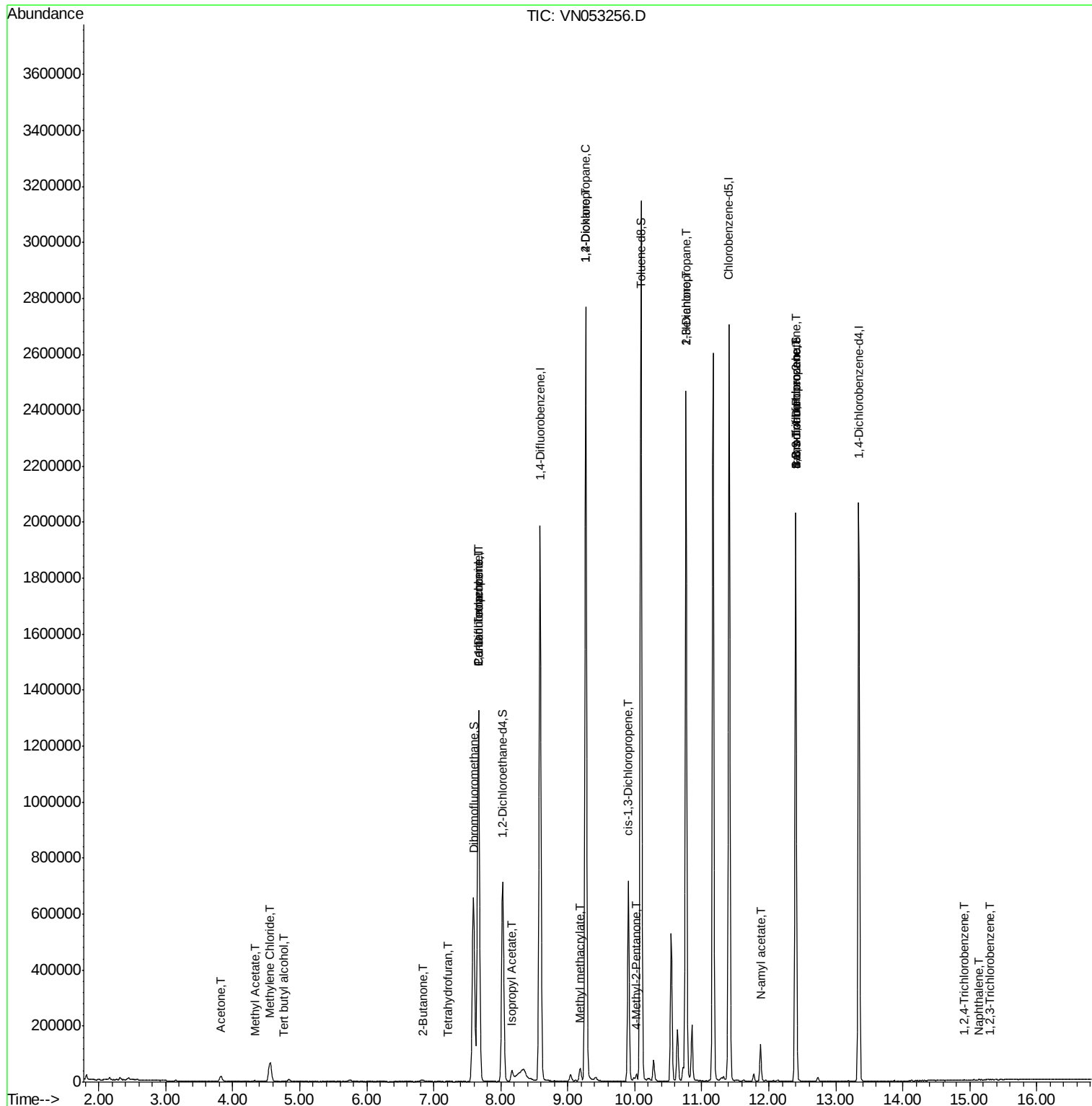
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	597740	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	7.59	113	508278	60.39	ug/l	0.00
Spiked Amount			Recovery	=	120.78%	
50) Toluene-d8	10.09	98	2235539	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	700652	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	

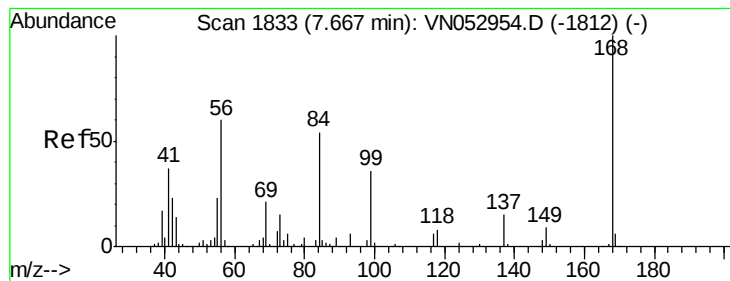
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	304	0.416	ug/l #	74
16) Acetone	3.82	43	33371	14.225	ug/l	95
18) Methyl Acetate	4.33	43	6989	1.635	ug/l #	90
20) Methylene Chloride	4.56	84	53373	4.171	ug/l	98
25) 2-Butanone	6.85	43	3723	0.946	ug/l #	79
29) Tetrahydrofuran	7.21	42	1454	0.494	ug/l #	73
31) Cyclohexane	7.66	56	19223	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	76207	4.309	ug/l #	48
38) Carbon Tetrachloride	7.67	117	102412	6.318	ug/l #	16
43) Isopropyl Acetate	8.17	43	54807	1.863	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	3602	0.263	ug/l #	44
48) Methyl methacrylate	9.18	41	16028	1.673	ug/l #	12
49) 1,4-Dioxane	9.28	88	236	1.947	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	20782	2.174	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	135477	6.615	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	26159	1.341	ug/l #	42
59) 2-Hexanone	10.76	43	352100	54.430	ug/l #	51
71) Bromoform	12.40	173	4859	0.537	ug/l #	1
74) N-amyl acetate	11.88	43	38952	3.074	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	326150	33.217	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	326150	107.063	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	306	0.625	ug/l #	69
95) Naphthalene	15.13	128	690	1.176	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	299	0.539	ug/l #	41

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

```
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Acq On    : 3 Jan 2019 12:30
Operator  : MD\SY
Sample    : PB116111ZHE#01
Misc      : 5.00mL/MSVOA_N/WATER
ALS Vial  : 9 Sample Multiplier: 28
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Quant Time: Jan 04 00:53:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 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: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

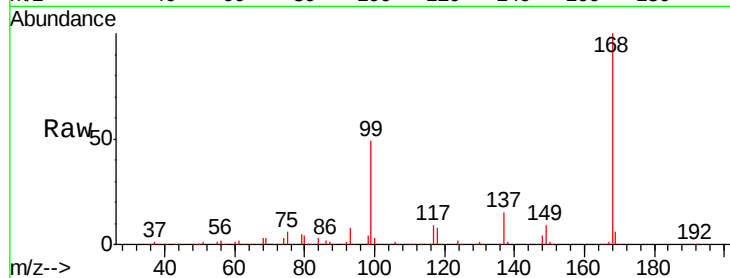
PB116111ZHE#01

Tgt Ion:168 Resp: 1179069

Ion Ratio Lower Upper

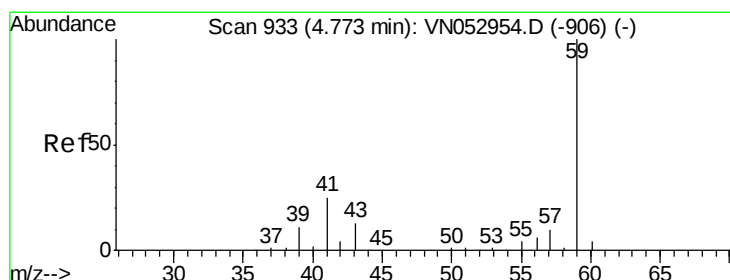
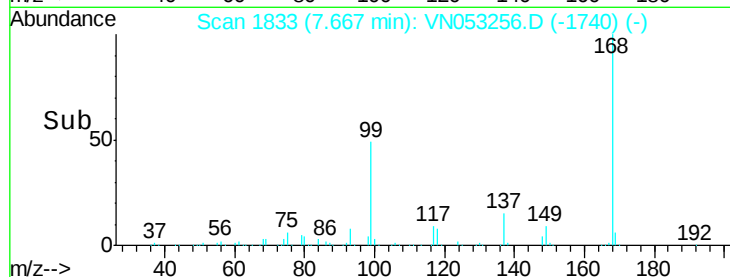
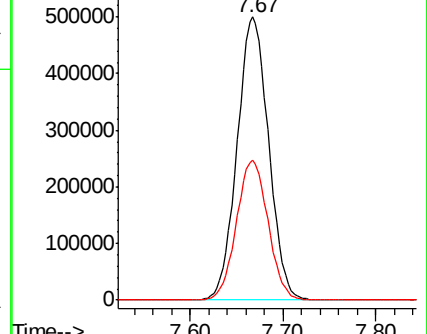
168 100

99 49.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.416 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.01 min

Lab File: VN053256.D

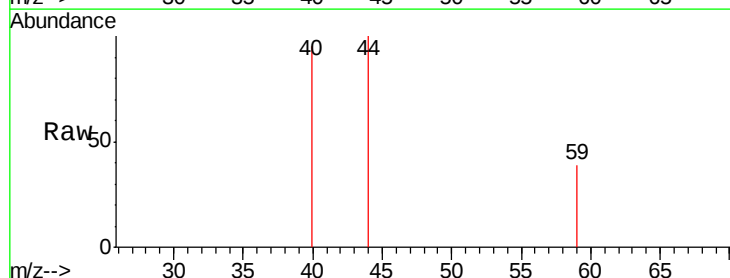
Acq: 3 Jan 2019 12:30

Tgt Ion: 59 Resp: 304

Ion Ratio Lower Upper

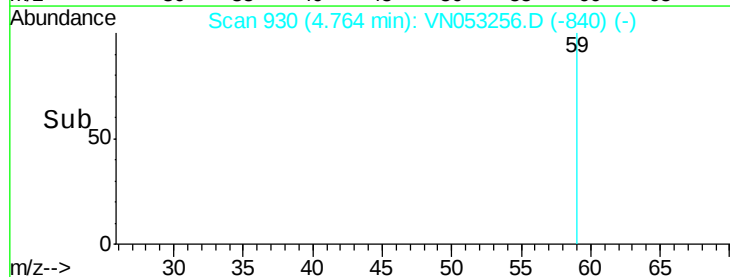
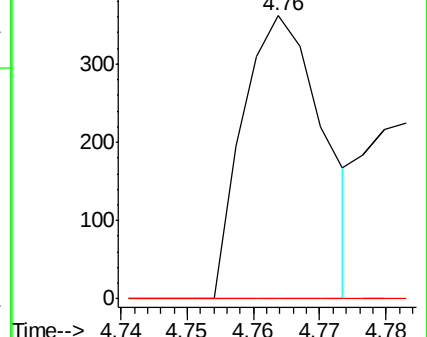
59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 14.225 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

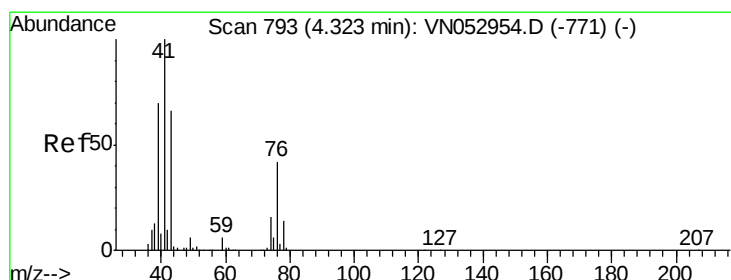
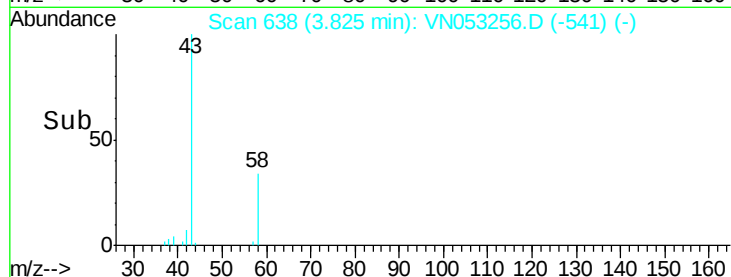
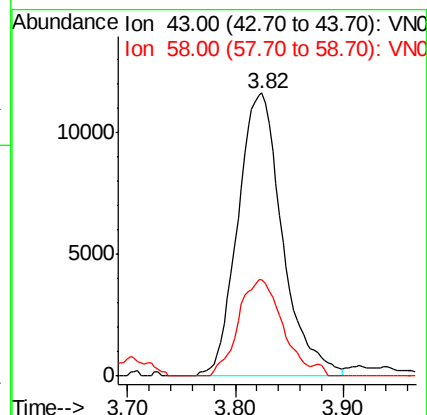
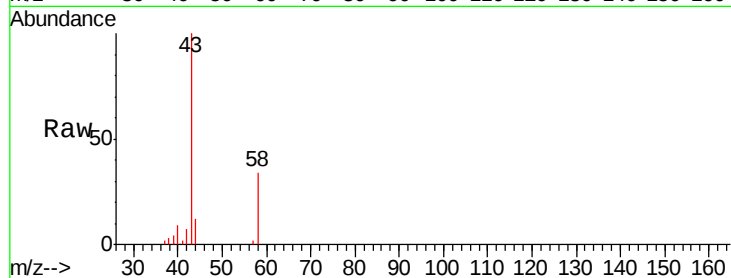
PB116111ZHE#01

Tgt Ion: 43 Resp: 33371

Ion Ratio Lower Upper

43 100

58 34.3 25.4 38.0



#18

Methyl Acetate

Concen: 1.635 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053256.D

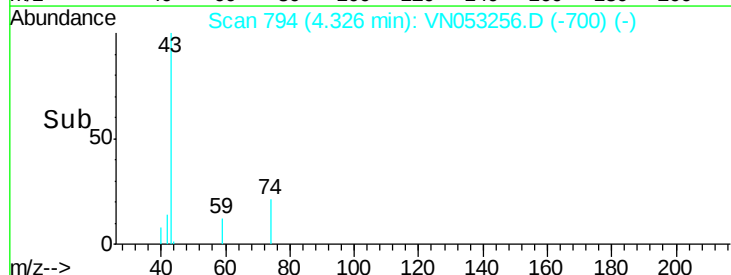
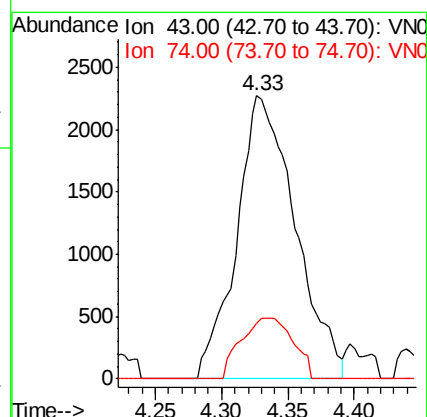
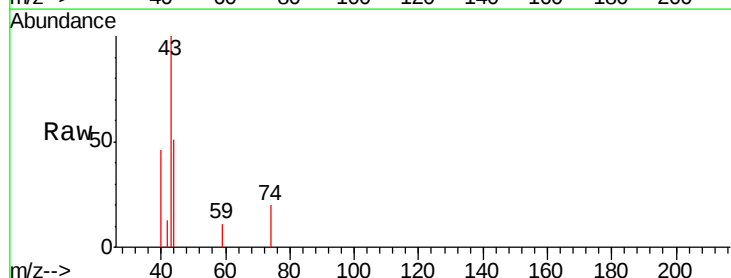
Acq: 3 Jan 2019 12:30

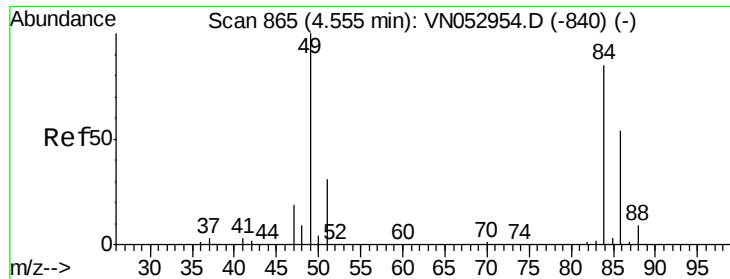
Tgt Ion: 43 Resp: 6989

Ion Ratio Lower Upper

43 100

74 19.1 19.2 28.8#

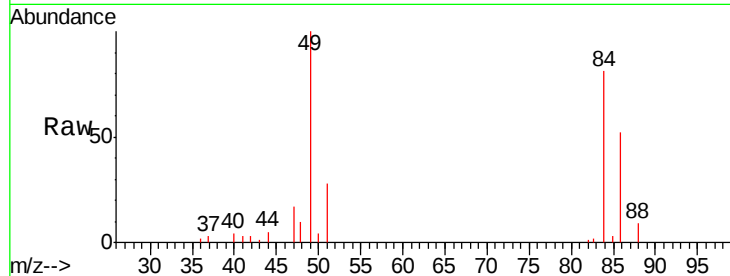




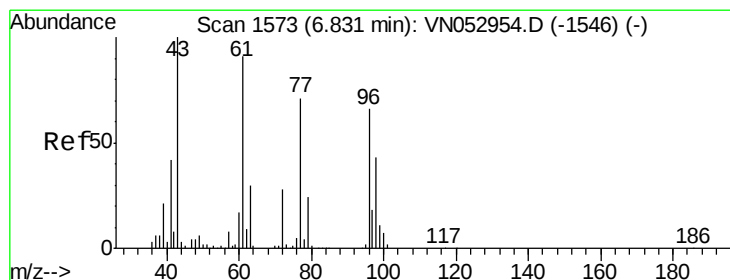
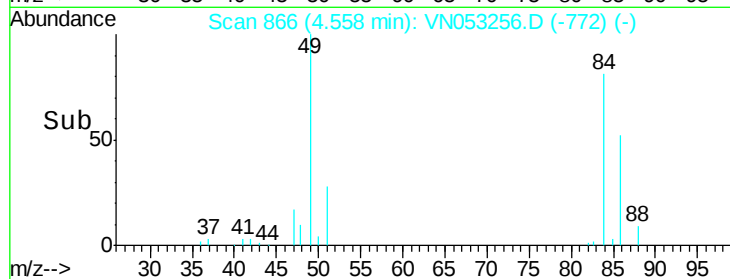
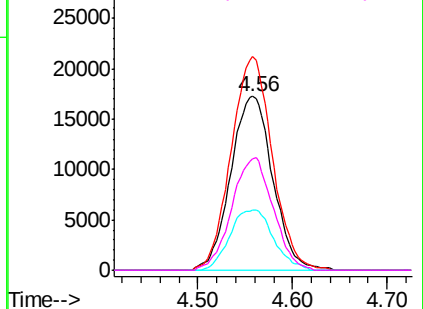
#20
Methylene Chloride
Concen: 4.171 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#01

Tgt Ion: 84 Resp: 53373
Ion Ratio Lower Upper
84 100
49 123.1 96.8 145.2
51 34.8 29.9 44.9
86 64.5 51.8 77.6

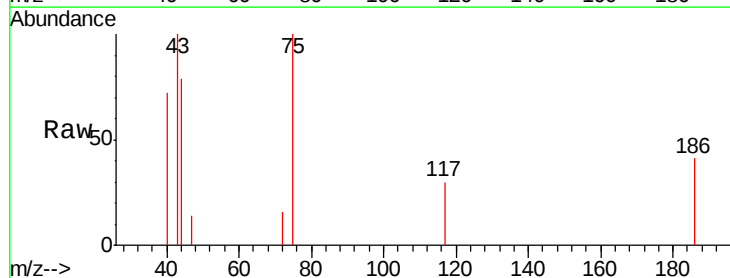


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

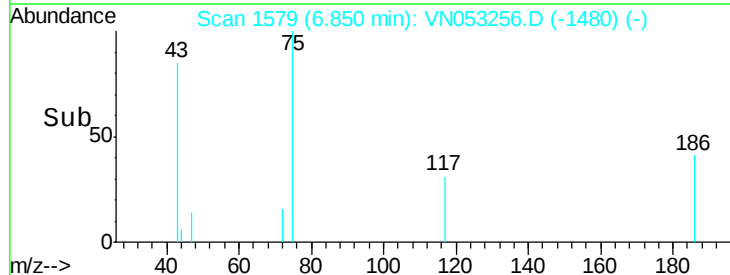
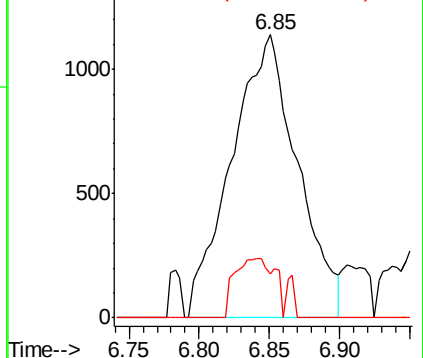


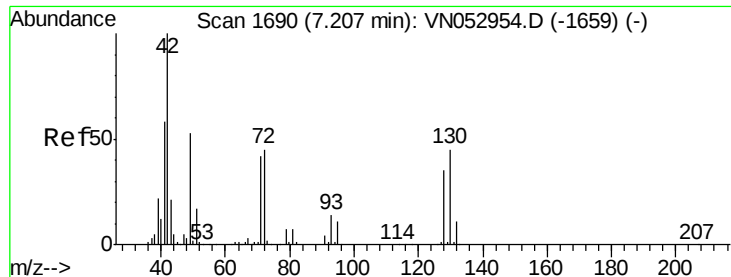
#25
2-Butanone
Concen: 0.946 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Tgt Ion: 43 Resp: 3723
Ion Ratio Lower Upper
43 100
72 15.7 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

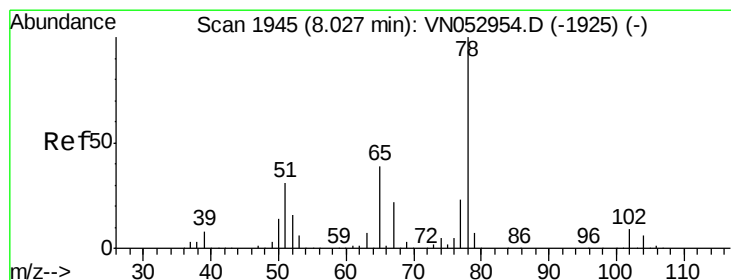
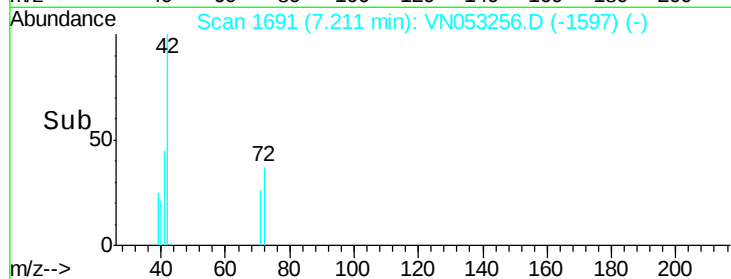
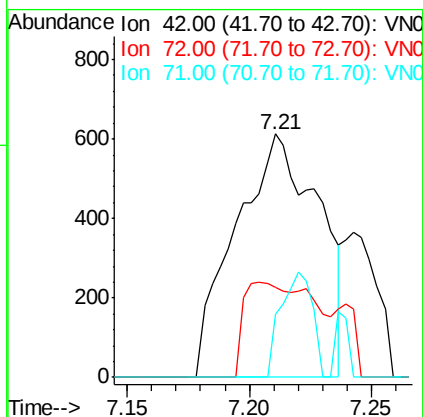
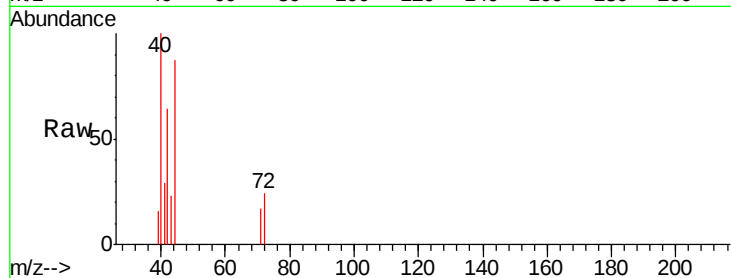




#29
Tetrahydrofuran
Concen: 0.494 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

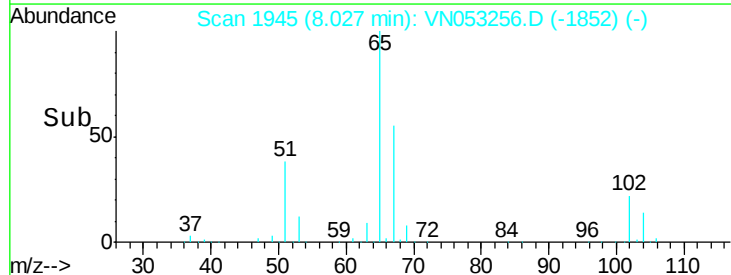
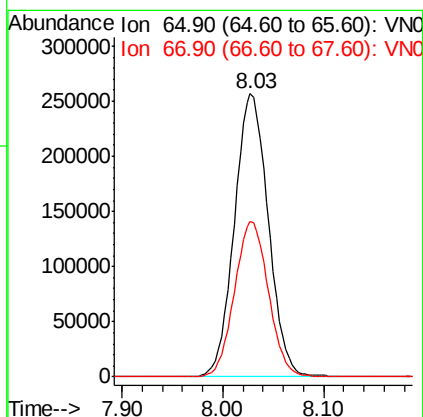
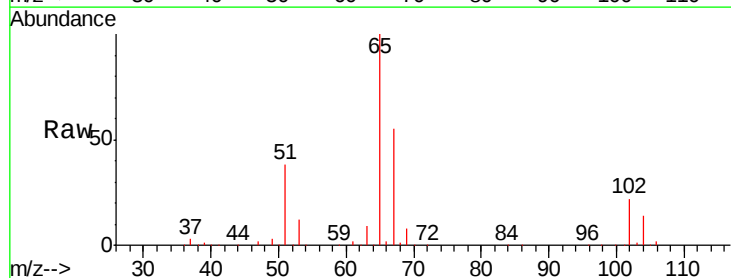
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#01

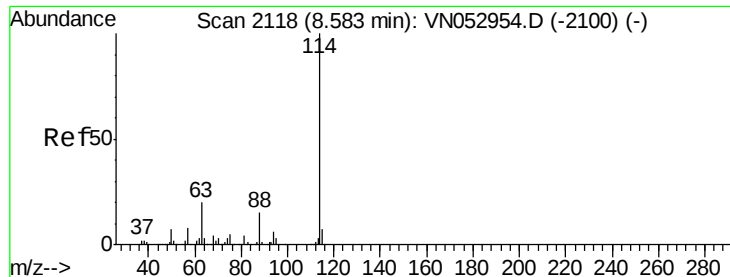
Tgt Ion: 42 Resp: 1454
Ion Ratio Lower Upper
42 100
72 33.4 34.7 52.1#
71 16.6 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Tgt Ion: 65 Resp: 597740
Ion Ratio Lower Upper
65 100
67 55.1 0.0 110.4

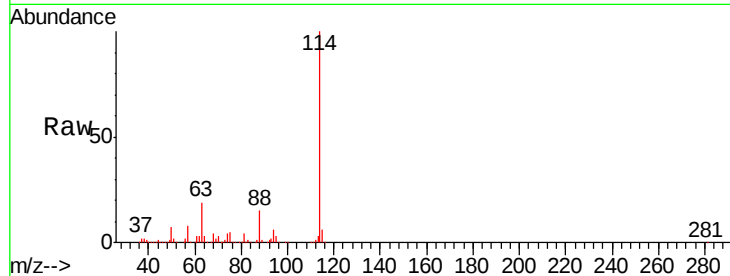




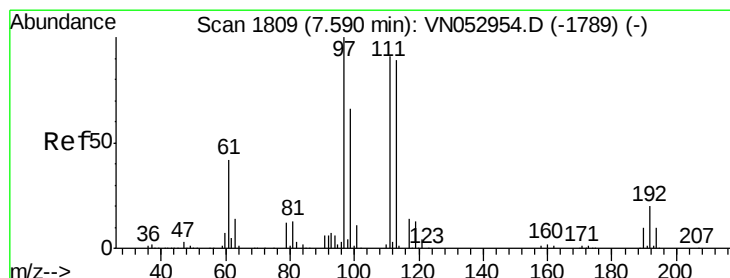
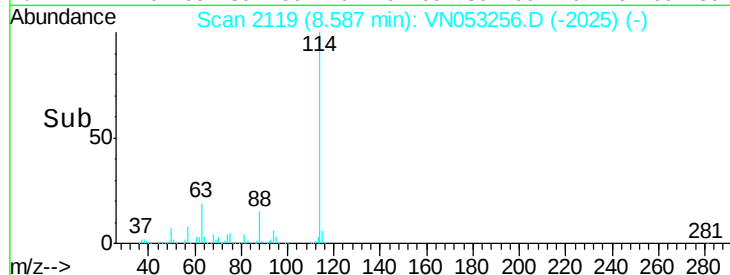
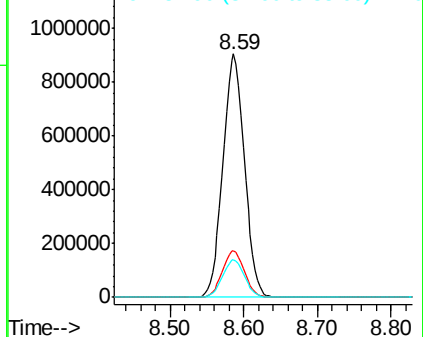
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053256.D
 Acq: 3 Jan 2019 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#01

Tgt Ion:114 Resp: 1842564
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.8
 88 15.4 0.0 31.0

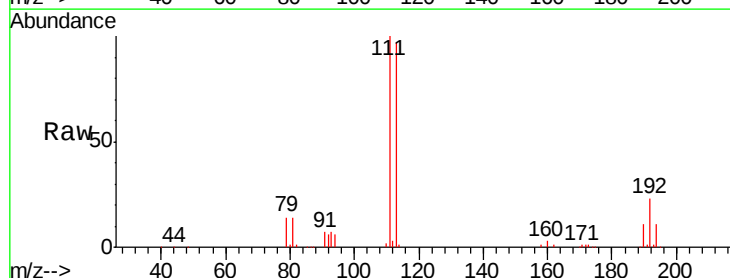


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

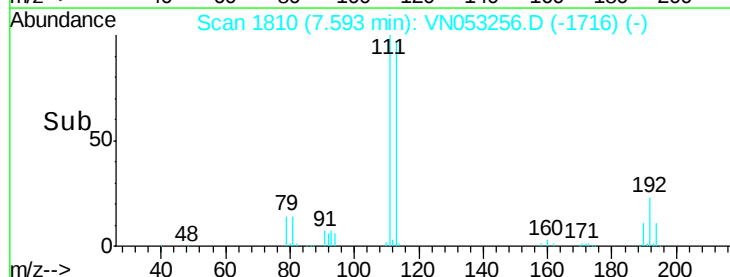
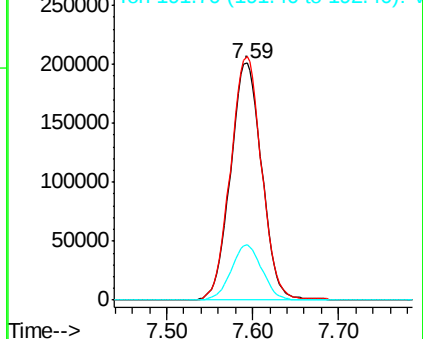


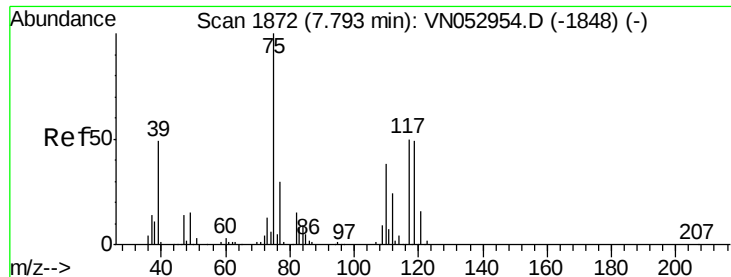
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053256.D
 Acq: 3 Jan 2019 12:30

Tgt Ion:113 Resp: 508278
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.0 124.4
 192 22.9 17.5 26.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.309 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#01

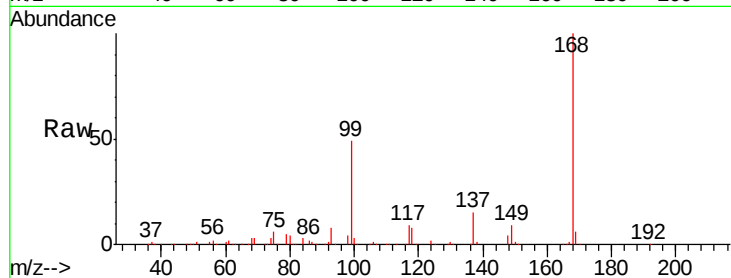
Tgt Ion: 75 Resp: 76207

Ion Ratio Lower Upper

75 100

110 8.2 18.2 54.6#

77 0.0 24.9 37.3#

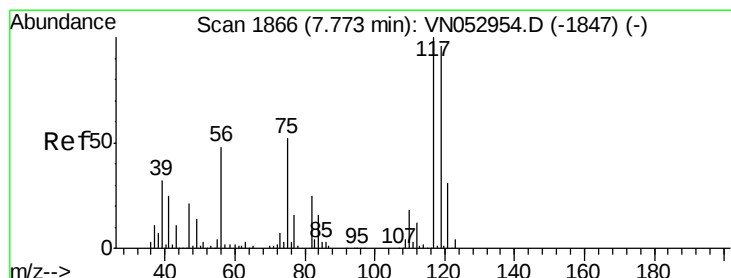
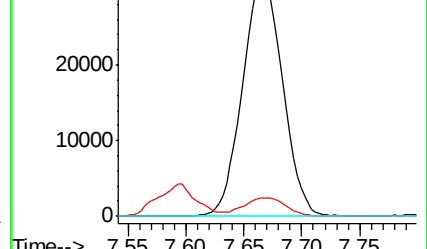
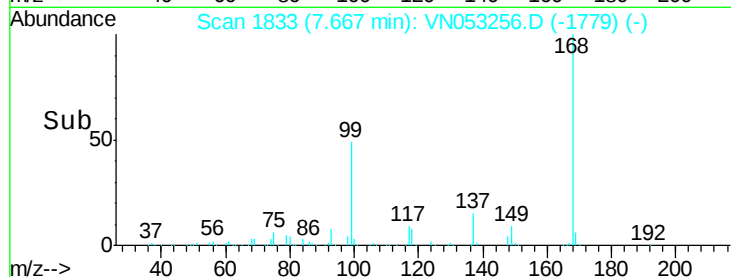


Abundance Ion 74.90 (74.60 to 75.60): VN053256.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053256.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053256.D (-1779) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.318 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

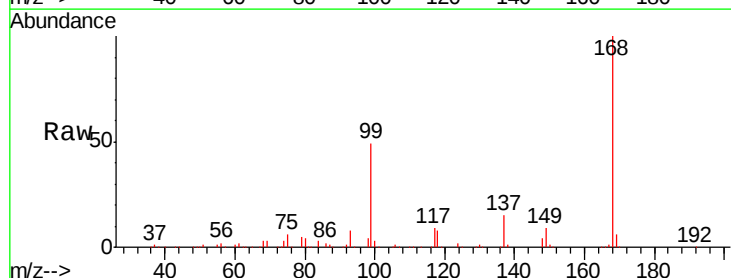
Tgt Ion: 117 Resp: 102412

Ion Ratio Lower Upper

117 100

119 5.1 77.1 115.7#

121 0.0 24.9 37.3#

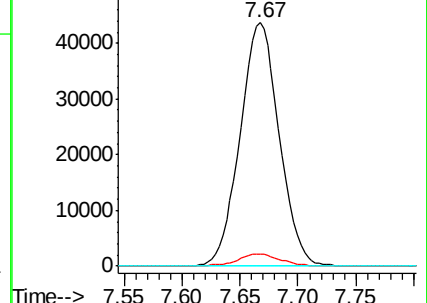
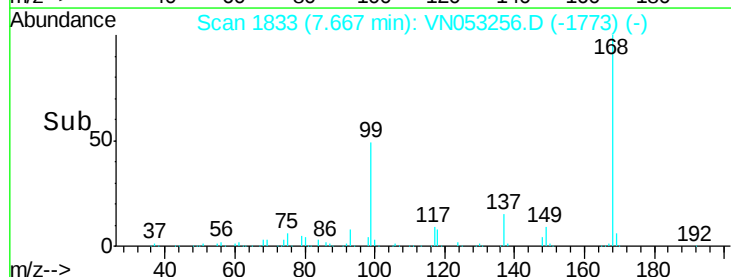


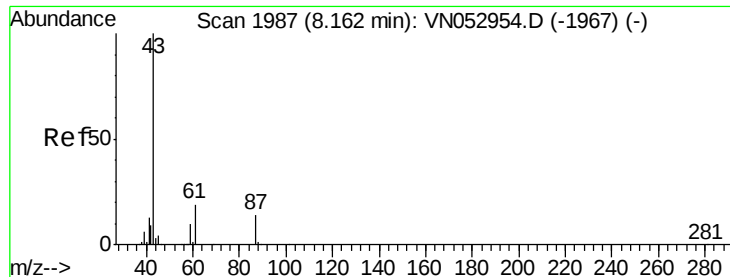
Abundance Ion 116.80 (116.50 to 117.50): VN053256.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053256.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053256.D (-1773) (-)

Time-->





#43

Isopropyl Acetate

Concen: 1.863 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#01

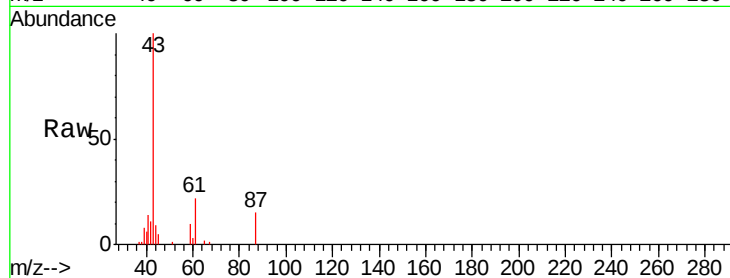
Tgt Ion: 43 Resp: 54807

Ion Ratio Lower Upper

43 100

61 17.6 22.9 34.3#

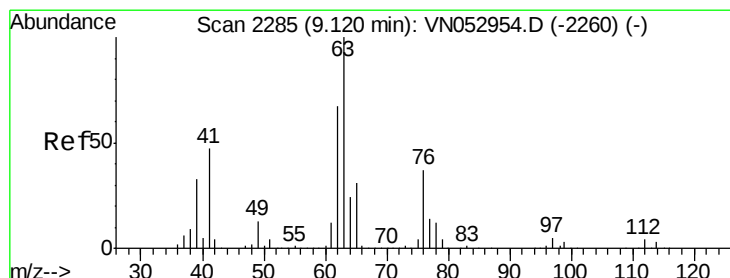
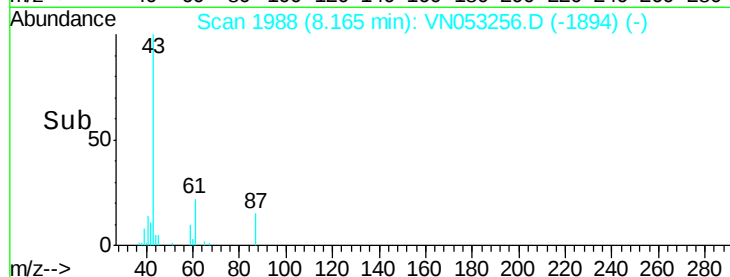
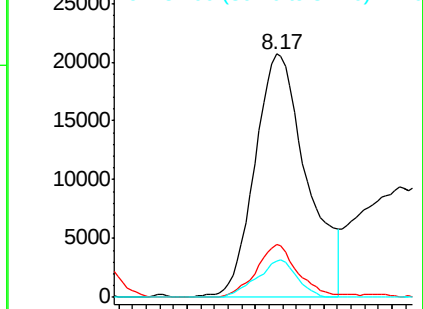
87 11.7 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.263 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053256.D

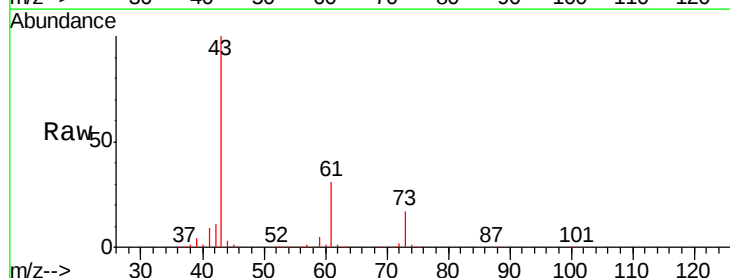
Acq: 3 Jan 2019 12:30

Tgt Ion: 63 Resp: 3602

Ion Ratio Lower Upper

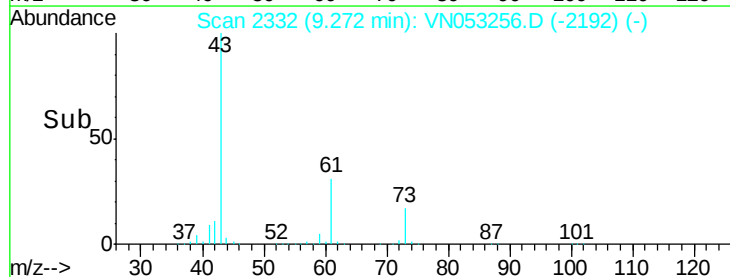
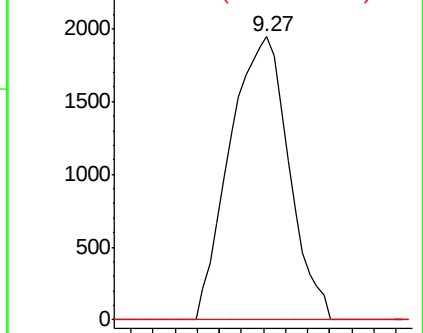
63 100

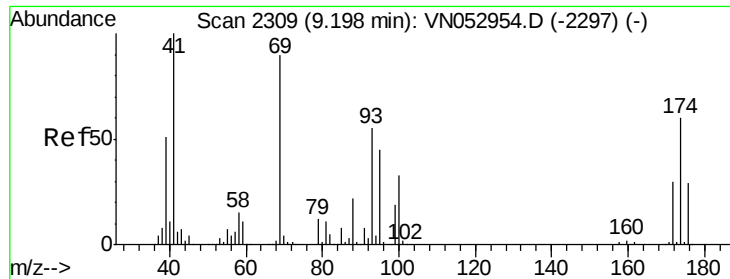
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

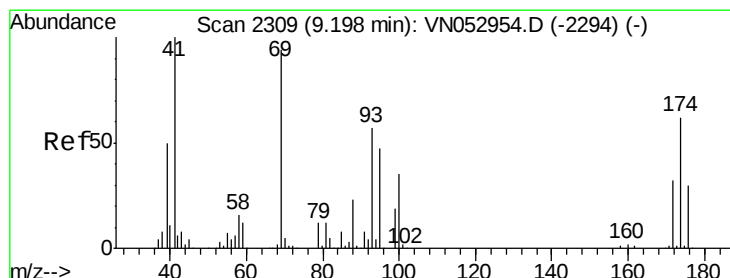
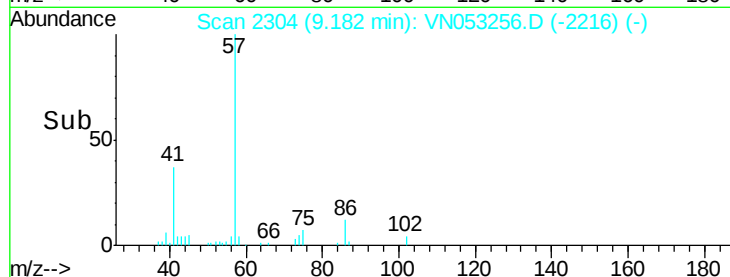
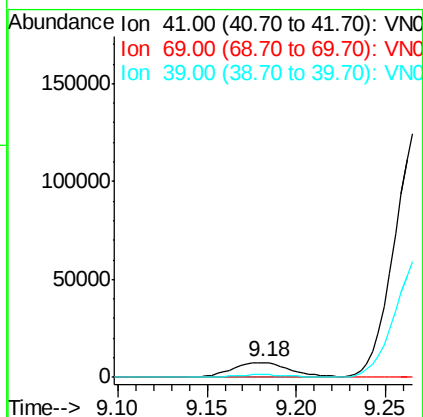
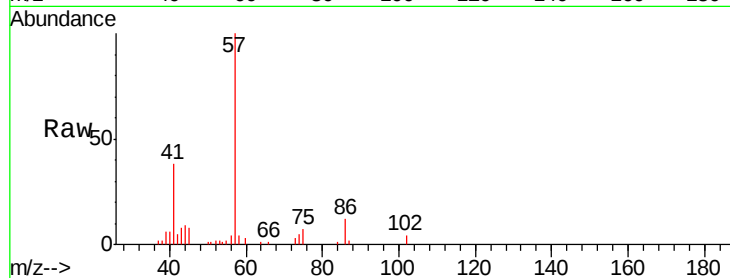




#48
Methyl methacrylate
Concen: 1.673 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

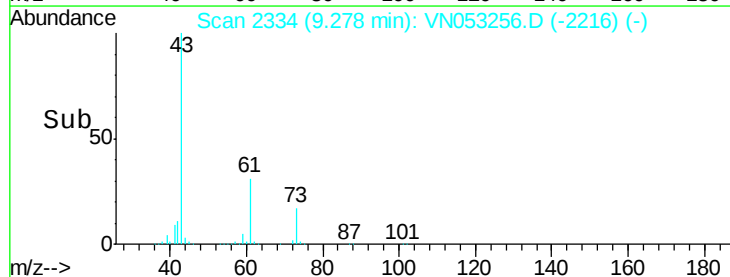
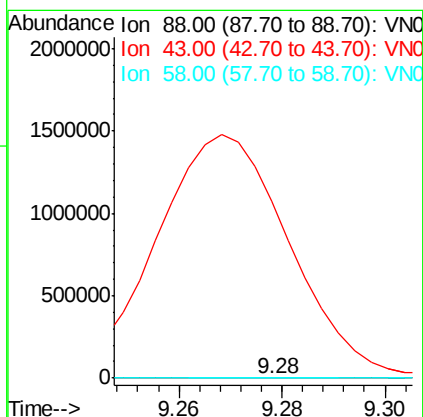
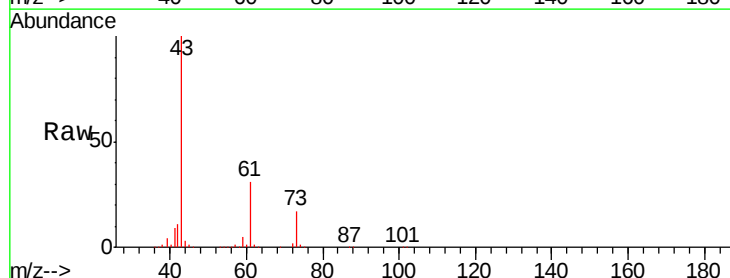
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#01

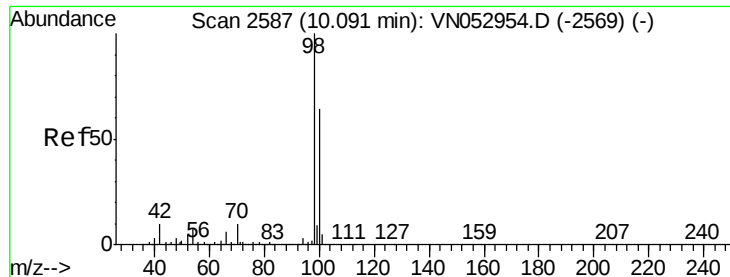
Tgt Ion: 41 Resp: 16028
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 1.947 ug/l
RT: 9.28 min Scan# 2334
Delta R.T. 0.08 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Tgt Ion: 88 Resp: 236
Ion Ratio Lower Upper
88 100
43 1144667.4 26.6 40.0#
58 4858.9 58.4 87.6#





#50

Toluene-d8

Concen: 1.947 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

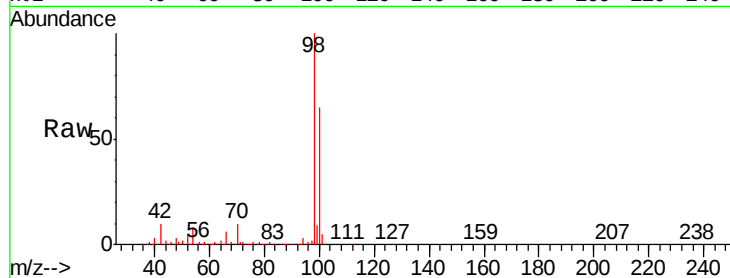
PB116111ZHE#01

Tgt Ion: 98 Resp: 2235539

Ion Ratio Lower Upper

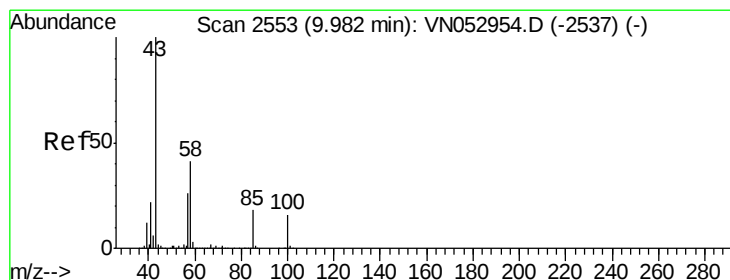
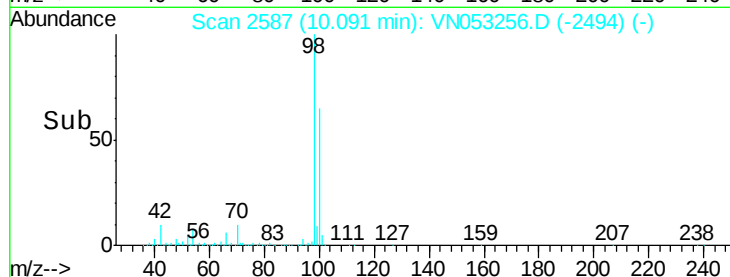
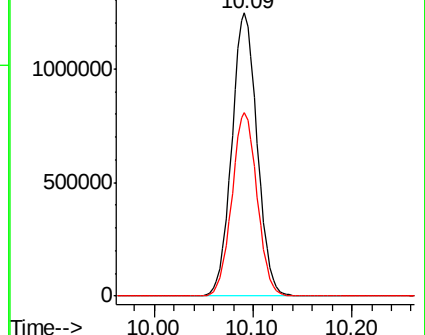
98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053256.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053256.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.174 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053256.D

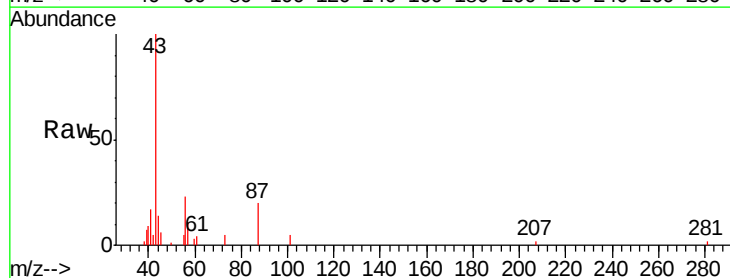
Acq: 3 Jan 2019 12:30

Tgt Ion: 43 Resp: 20782

Ion Ratio Lower Upper

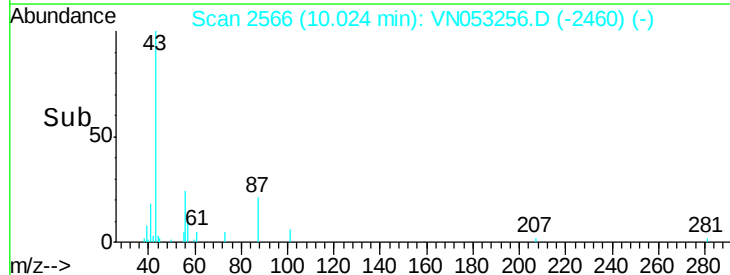
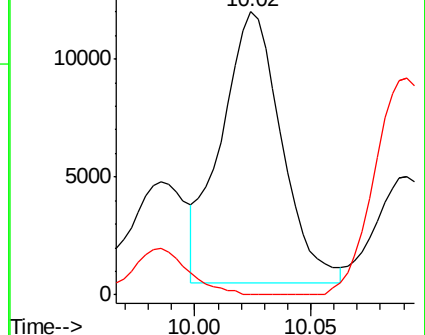
43 100

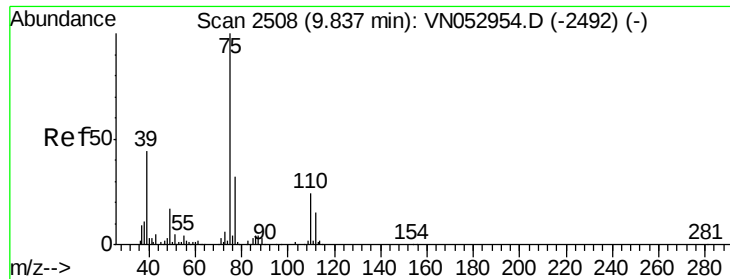
58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053256.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN053256.D (-2460) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.615 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#01

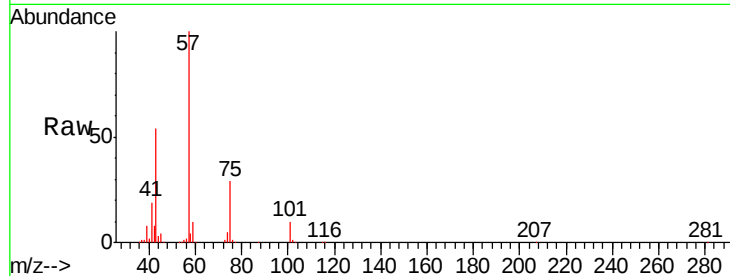
Tgt Ion: 75 Resp: 135477

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

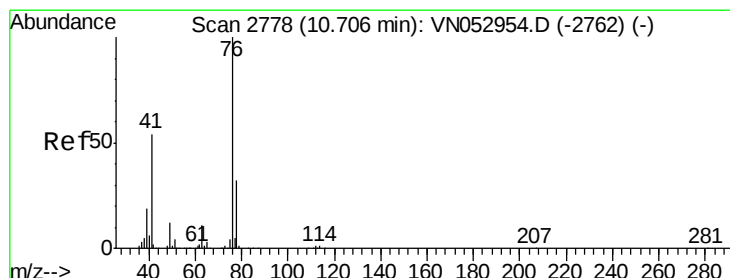
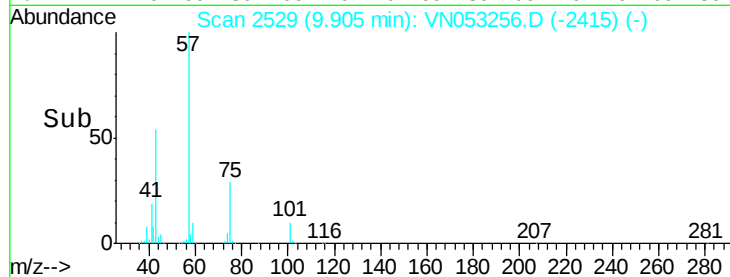
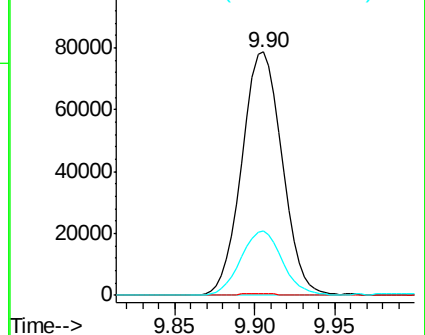
39 26.4 34.8 52.2#



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: 1.341 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053256.D

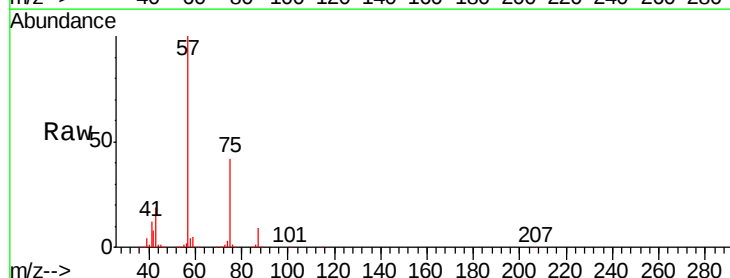
Acq: 3 Jan 2019 12:30

Tgt Ion: 76 Resp: 26159

Ion Ratio Lower Upper

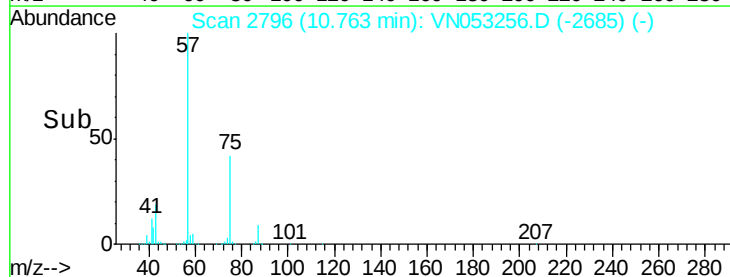
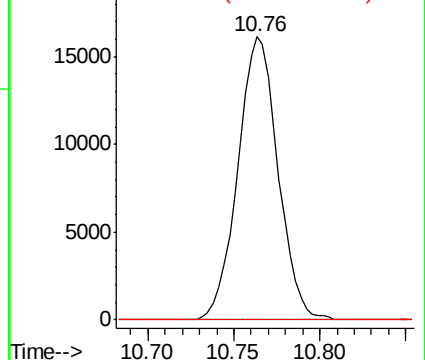
76 100

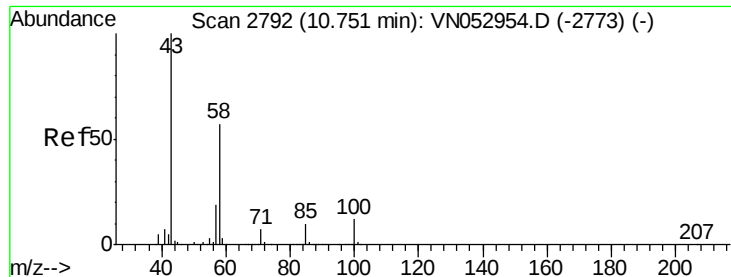
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

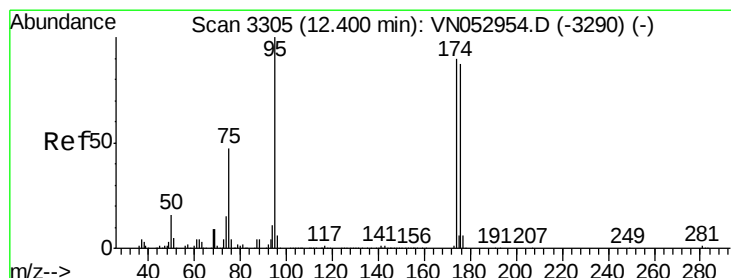
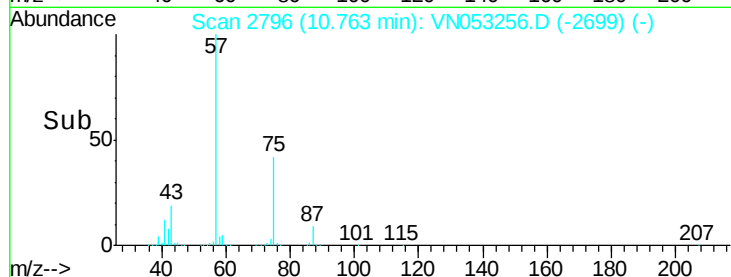
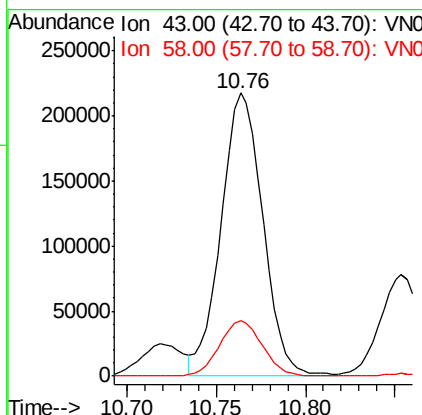
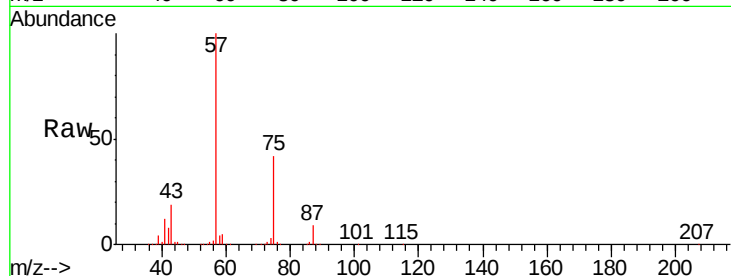




#59
2-Hexanone
Concen: 54.430 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

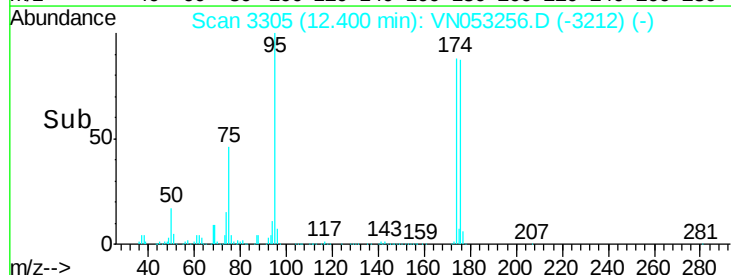
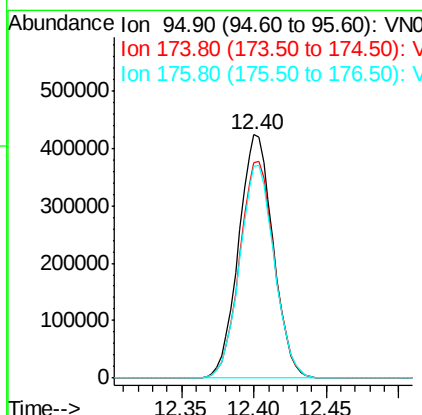
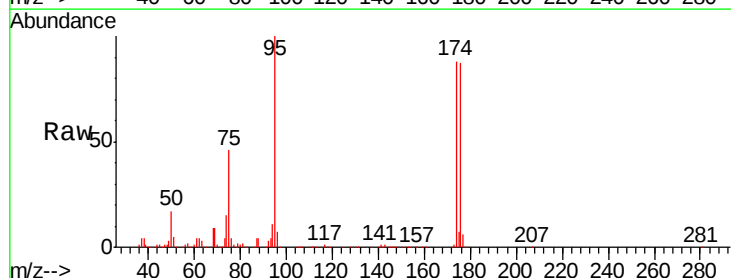
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#01

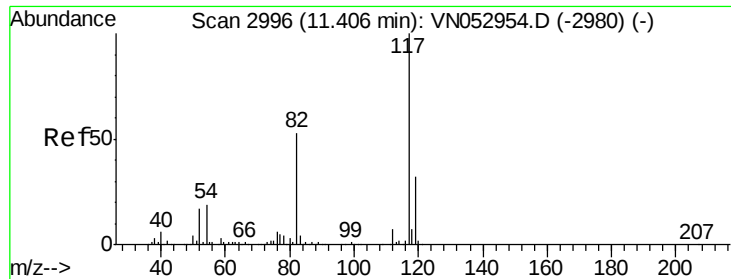
Tgt Ion: 43 Resp: 352100
Ion Ratio Lower Upper
43 100
58 20.3 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Tgt Ion: 95 Resp: 700652
Ion Ratio Lower Upper
95 100
174 89.6 0.0 178.8
176 87.6 0.0 173.8

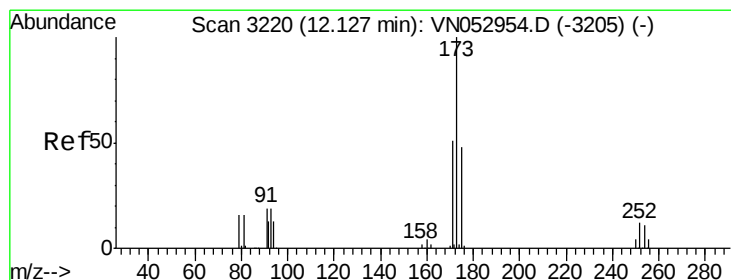
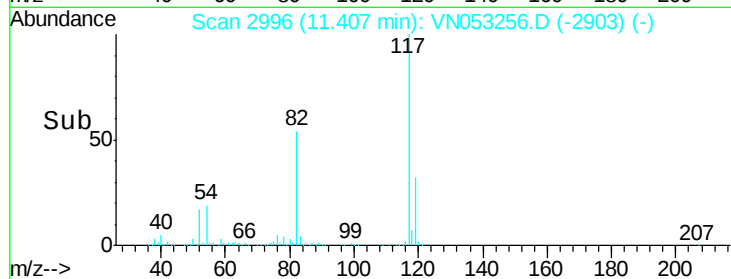
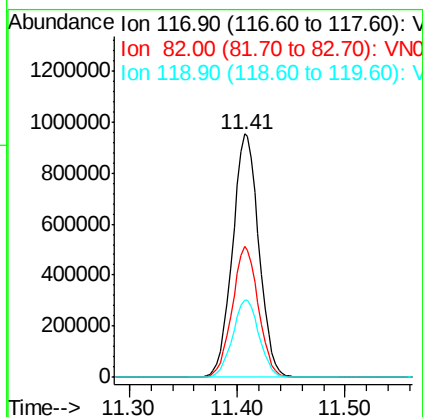
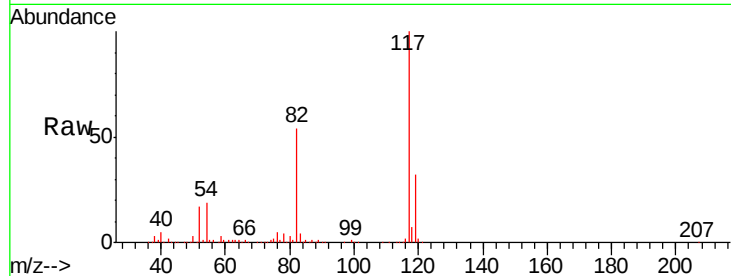




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

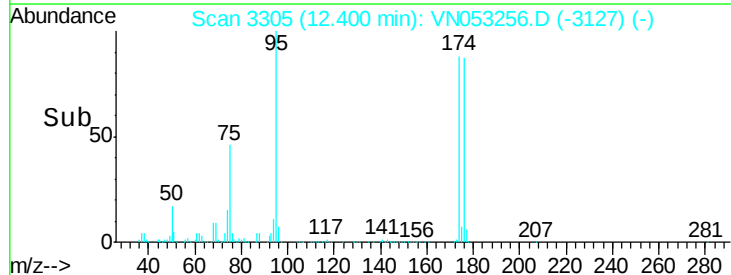
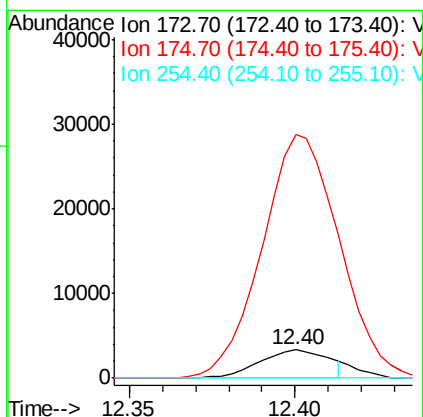
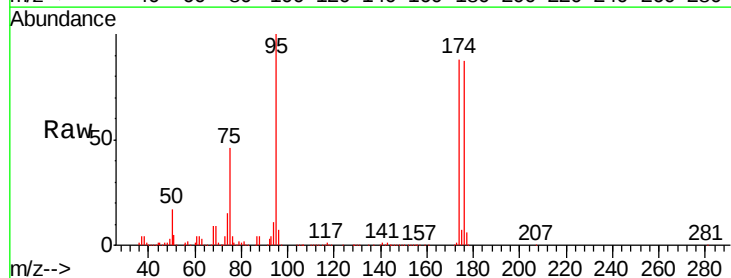
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#01

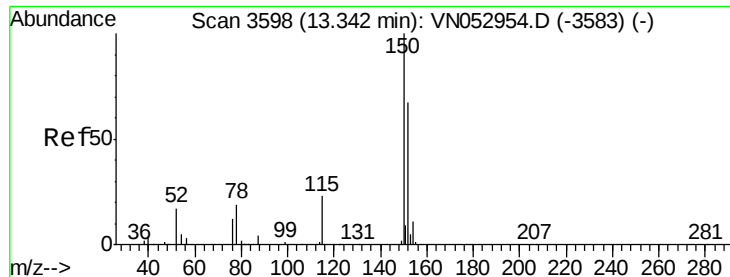
Tgt Ion:117 Resp: 1623890
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 31.8 25.5 38.3



#71
Bromoform
Concen: 0.537 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053256.D
Acq: 3 Jan 2019 12:30

Tgt Ion:173 Resp: 4859
Ion Ratio Lower Upper
173 100
175 843.2 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#01

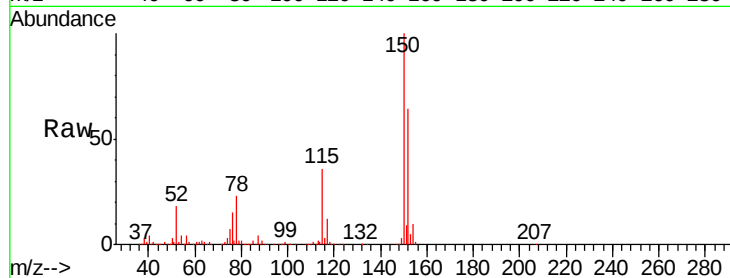
Tgt Ion:152 Resp: 583267

Ion Ratio Lower Upper

152 100

115 55.6 28.3 85.0

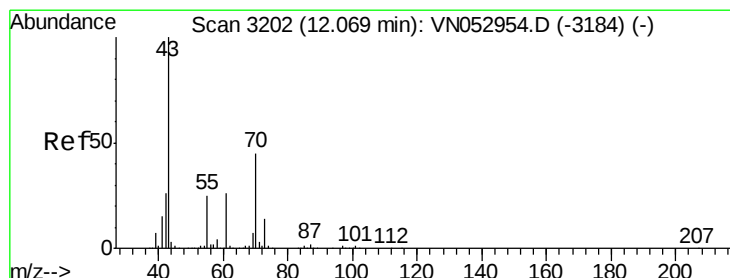
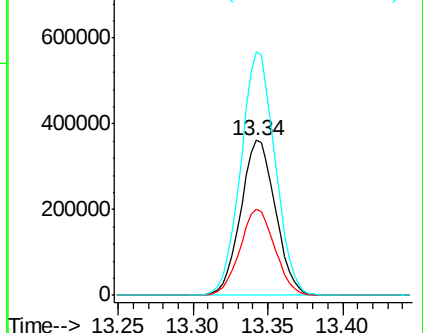
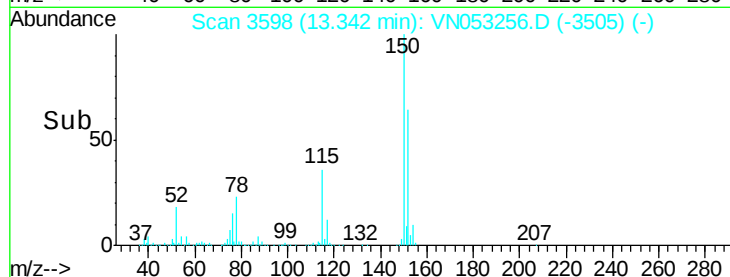
150 155.7 0.0 347.8



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: 3.074 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Tgt Ion: 43 Resp: 38952

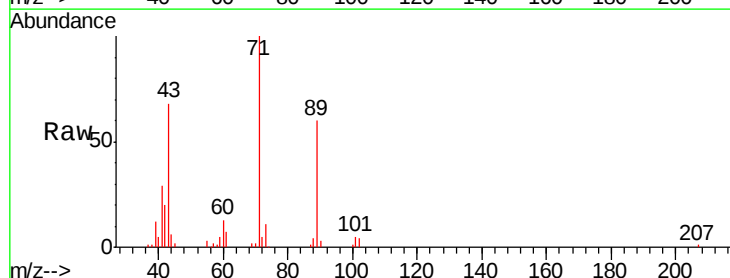
Ion Ratio Lower Upper

43 100

70 2.4 34.2 51.4#

55 4.7 20.3 30.5#

61 11.8 20.0 30.0#

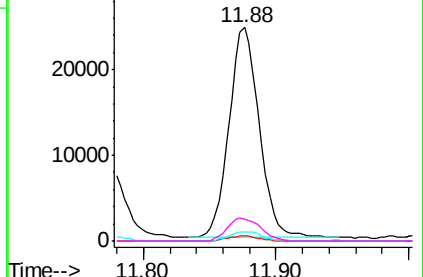
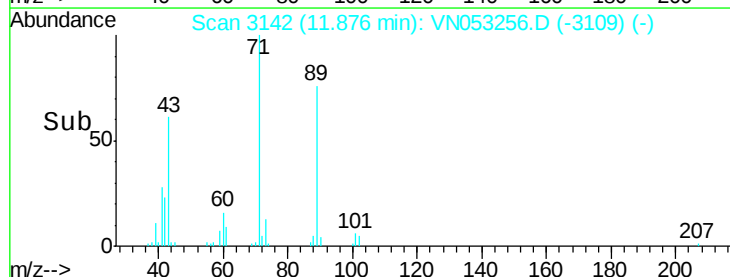


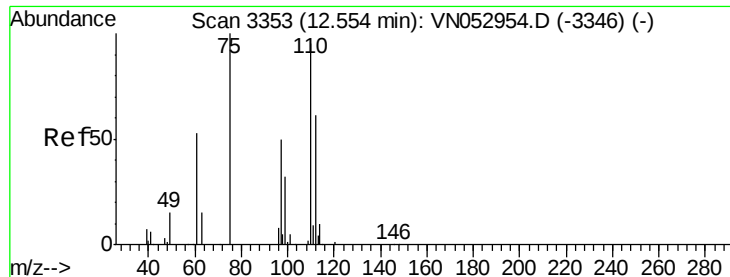
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 33.217 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

Instrument :

MSVOA_N

ClientSampleId :

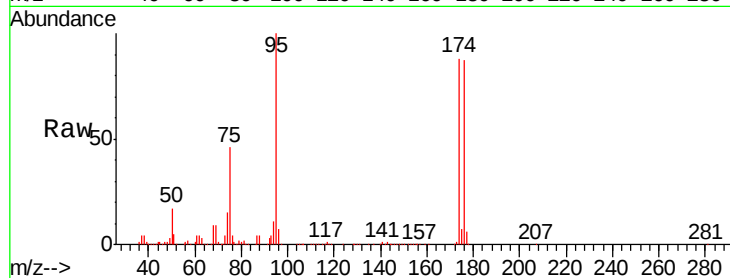
PB116111ZHE#01

Tgt Ion: 75 Resp: 326150

Ion Ratio Lower Upper

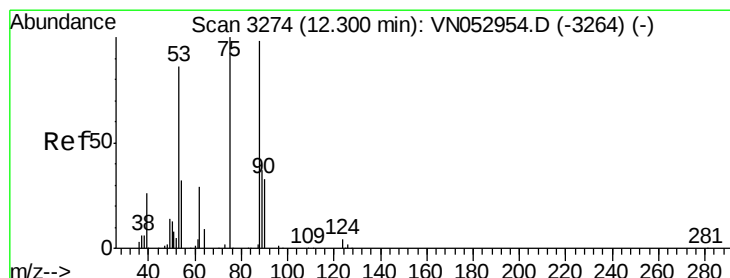
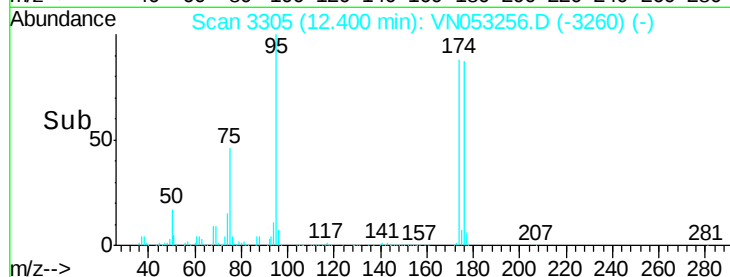
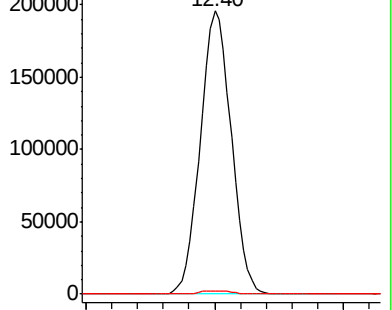
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 107.063 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053256.D

Acq: 3 Jan 2019 12:30

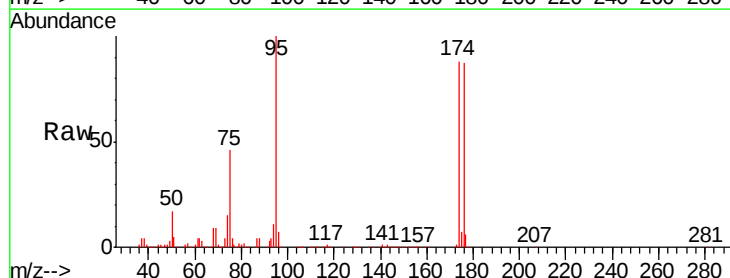
Tgt Ion: 75 Resp: 326150

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

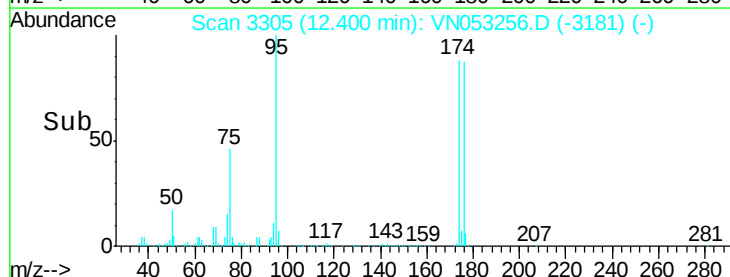
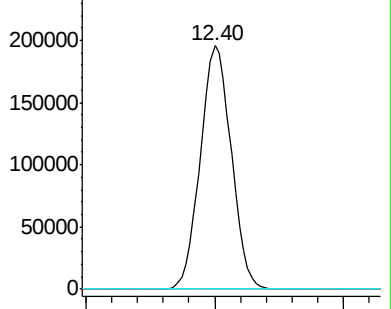
89 0.0 36.1 54.1#

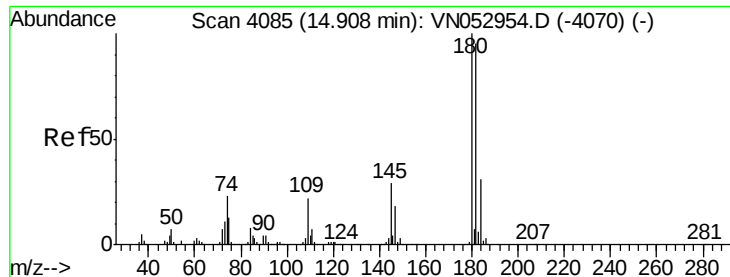


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

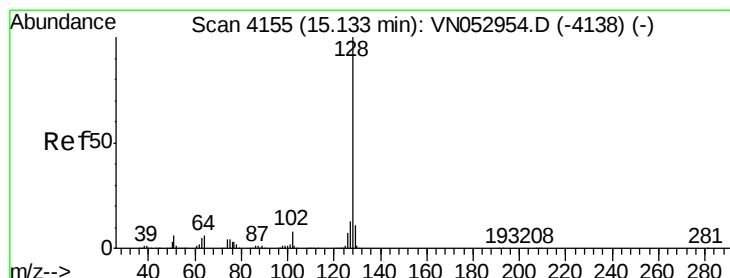
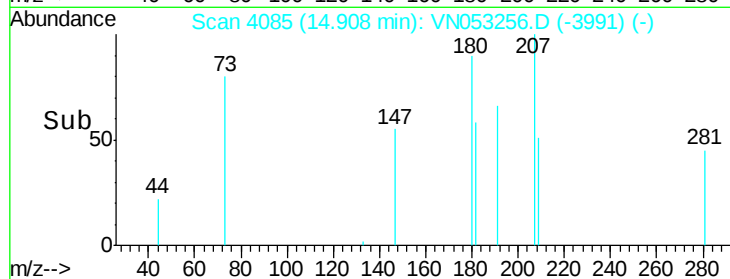
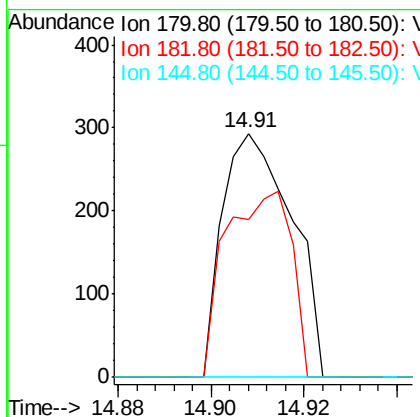
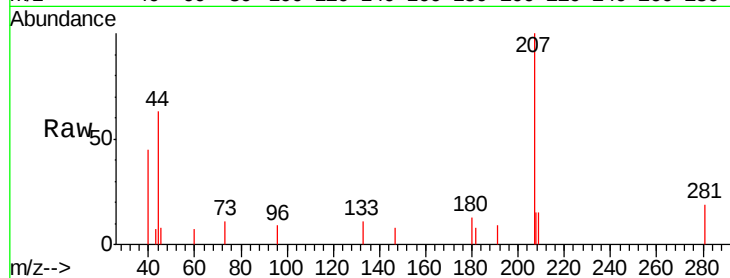




#93
 1,2,4-Trichlorobenzene
 Concen: 0.625 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053256.D
 Acq: 3 Jan 2019 12:30

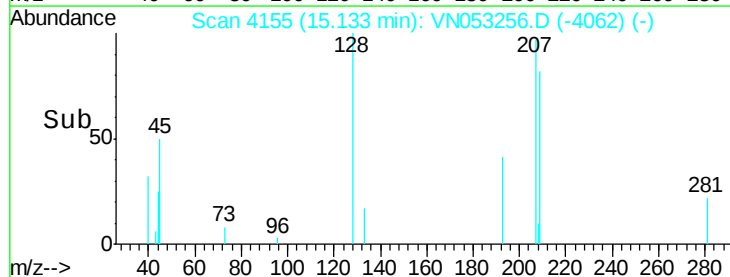
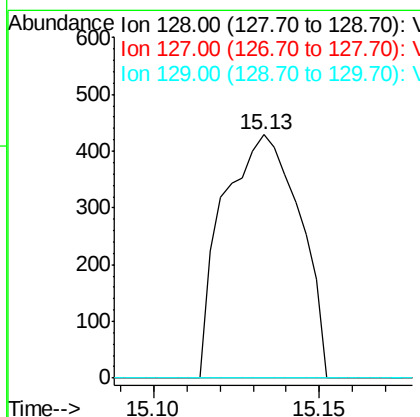
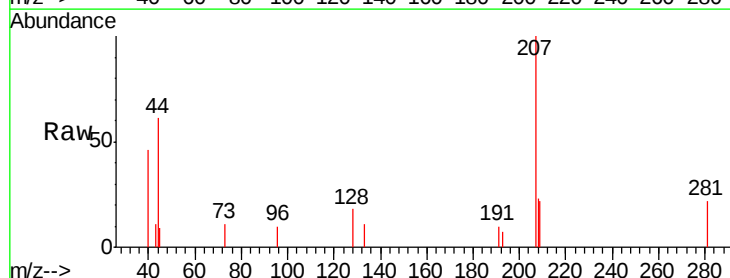
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#01

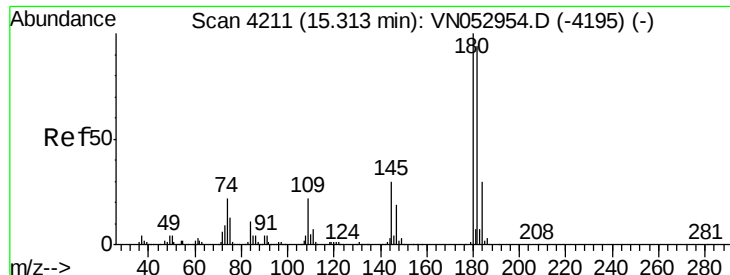
Tgt Ion:180 Resp: 306
 Ion Ratio Lower Upper
 180 100
 182 72.2 47.8 143.3
 145 0.0 14.2 42.6#



#95
 Naphthalene
 Concen: 1.176 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053256.D
 Acq: 3 Jan 2019 12:30

Tgt Ion:128 Resp: 690
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.539 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN053256.D
 Acq: 3 Jan 2019 12:30

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#01

Tgt Ion:180 Resp: 299
 Ion Ratio Lower Upper
 180 100
 182 37.5 47.9 143.7#
 145 0.0 15.0 45.0#

