

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053013.D
 Acq On : 19 Dec 2018 16:10
 Operator : MD\SY
 Sample : PB115821ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 20 05:21:36 2018
 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	1390192	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2114149	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1876404	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	699631	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	688957	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
35) Dibromofluoromethane	7.59	113	524526	54.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.62%	
50) Toluene-d8	10.09	98	2590713	49.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.40	95	823232	45.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.46%	

Target Compounds

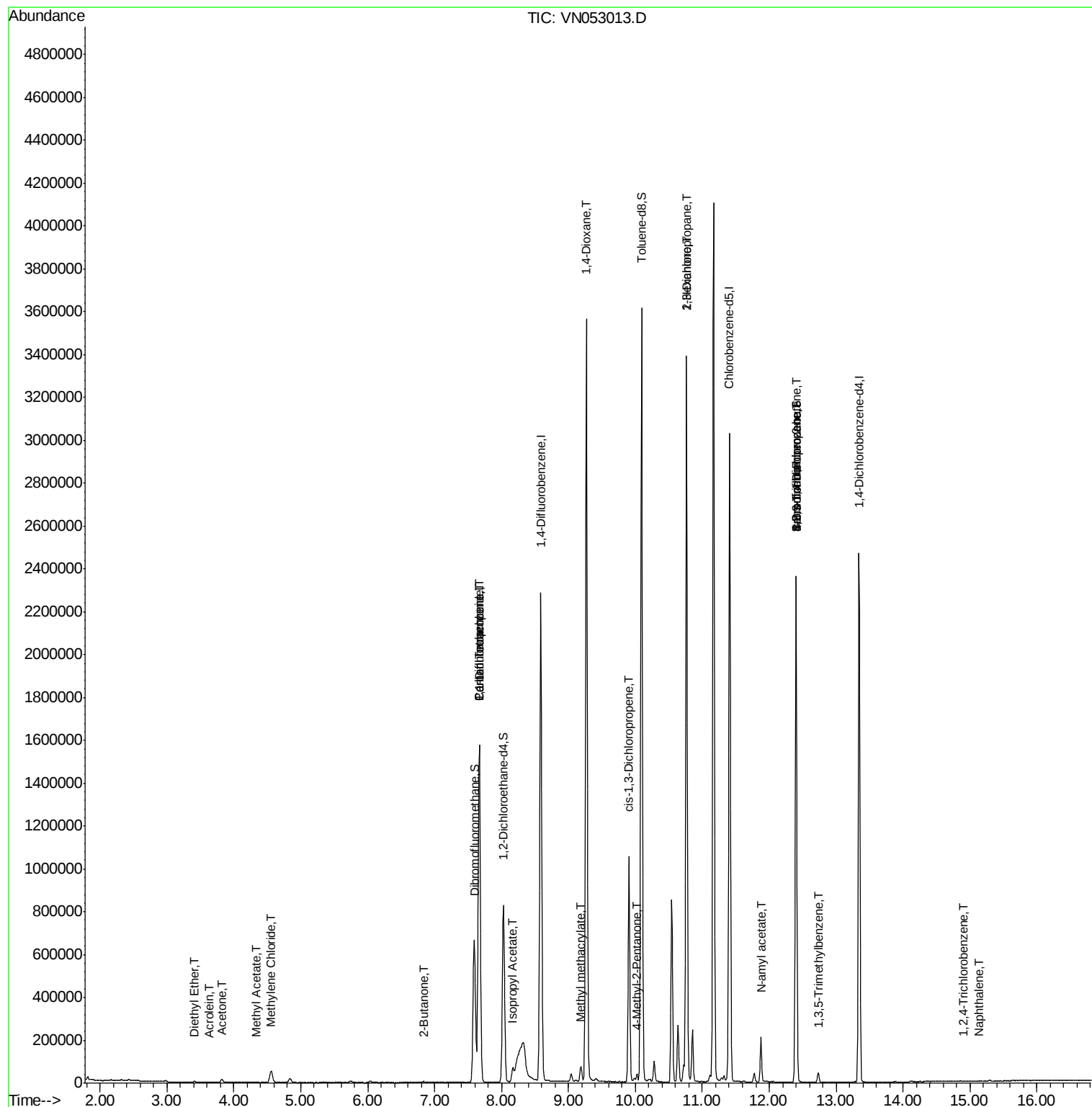
	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	2609	0.322	ug/l	94
13) Acrolein	3.62	56	207	0.265	ug/l #	32
16) Acetone	3.82	43	27269	9.858	ug/l	98
18) Methyl Acetate	4.32	43	2439	1.182	ug/l	96
20) Methylene Chloride	4.55	84	42349	2.807	ug/l	93
25) 2-Butanone	6.84	43	3223	0.694	ug/l	93
31) Cyclohexane	7.67	56	21781	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	90069	4.439	ug/l #	48
38) Carbon Tetrachloride	7.67	117	118697	6.382	ug/l #	16
43) Isopropyl Acetate	8.17	43	79933	2.657	ug/l #	85
48) Methyl methacrylate	9.18	41	24674	2.245	ug/l #	22
49) 1,4-Dioxane	9.26	88	556	3.999	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	28505	2.598	ug/l #	35
54) cis-1,3-Dichloropropene	9.91	75	198770	8.459	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	35519	1.587	ug/l #	42
59) 2-Hexanone	10.76	43	473417	63.783	ug/l #	50
71) Bromoform	12.41	173	5243	0.502	ug/l #	1
74) N-amyl acetate	11.88	43	62468	4.110	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	382693	32.493	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23071	0.517	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	382693	104.730	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.90	180	262	0.617	ug/l #	82
95) Naphthalene	15.13	128	1185	1.189	ug/l #	69

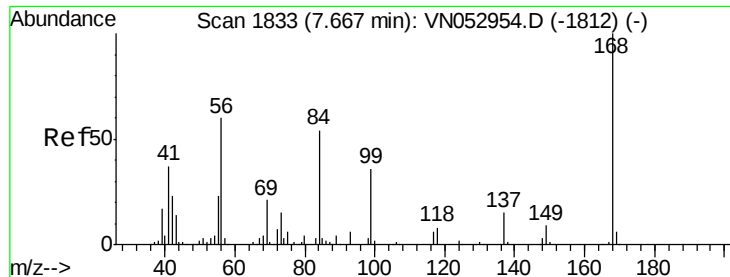
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN053013.D
Acq On : 19 Dec 2018 16:10
Operator : MD\SY
Sample : PB115821ZHE#03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 20 05:21:36 2018
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: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

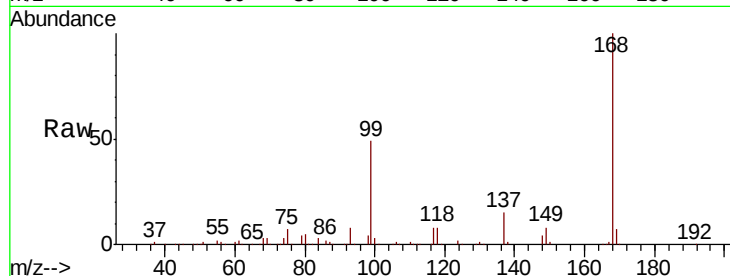
ClientSampleId :

Tot Ion:168 Resp: 1390192

Ion Ratio Lower Upper

168 100

99 49.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052954.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052954.D (-1812) (-)

7.67

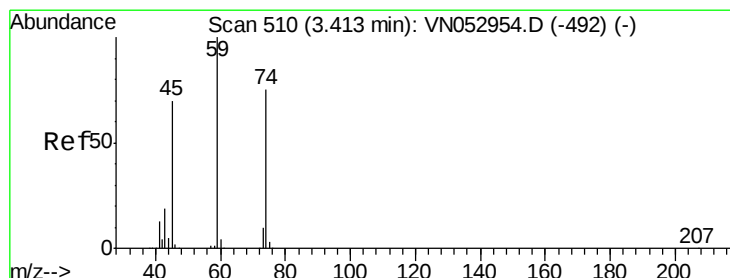
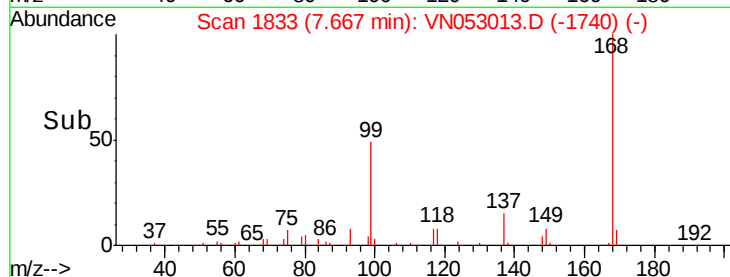
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.322 ug/l

RT: 3.41 min Scan# 510

Delta R.T. 0.00 min

Lab File: VN053013.D

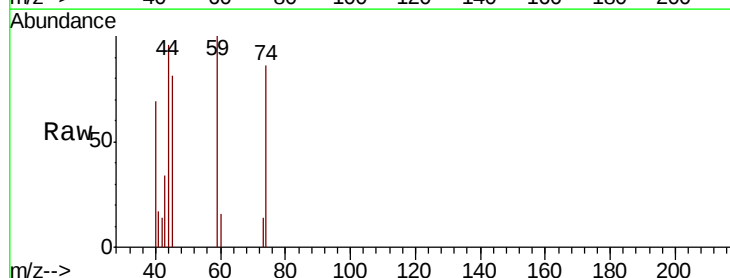
Acq: 19 Dec 2018 16:10

Tgt Ion: 74 Resp: 2609

Ion Ratio Lower Upper

74 100

45 93.1 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN052954.D (-492) (-)

Ion 45.00 (44.70 to 45.70): VN052954.D (-492) (-)

3.41

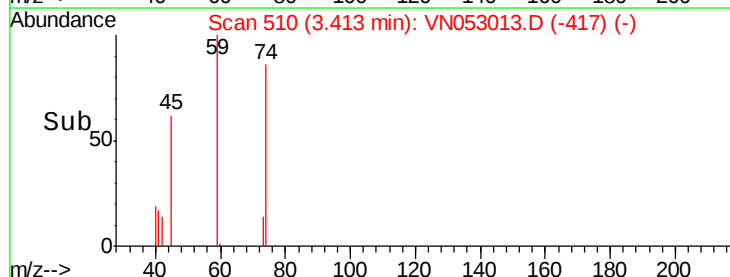
1500

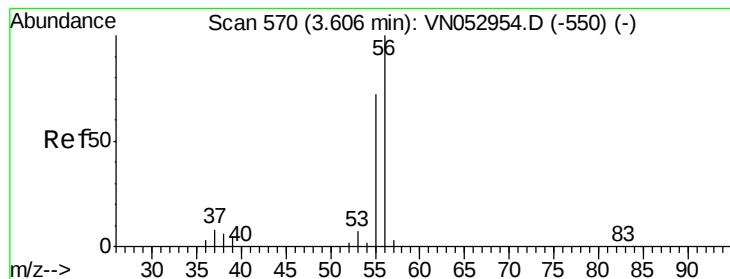
1000

500

0

Time-->





#13

Acrolein

Concen: 0.265 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

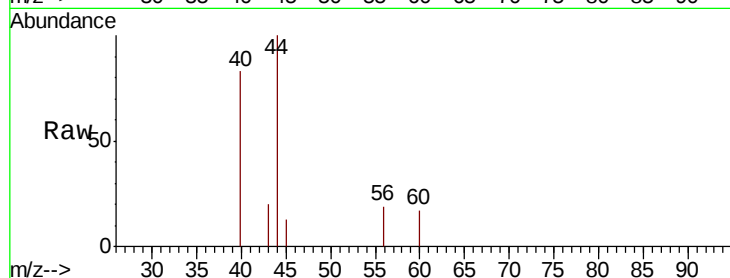
ClientSampled :

Tot Ion: 56 Resp: 207

Ion Ratio Lower Upper

56 100

55 14.5 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

250

200

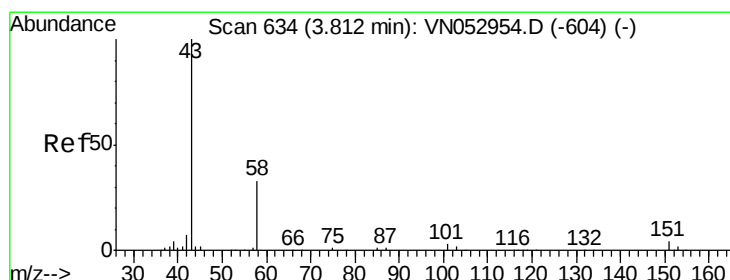
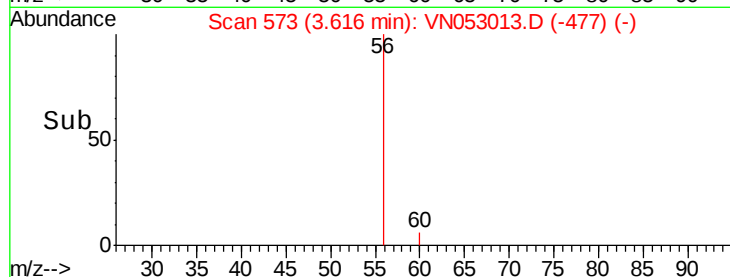
150

100

50

0

Time-->



#16

Acetone

Concen: 9.858 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053013.D

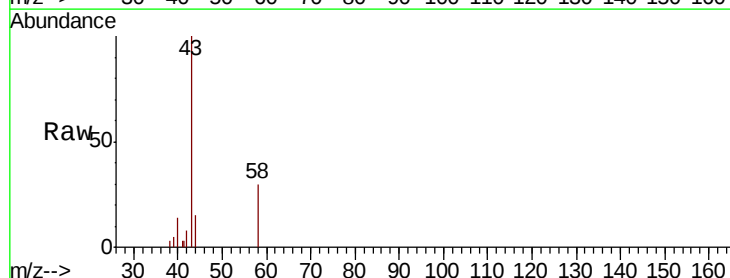
Acq: 19 Dec 2018 16:10

Tgt Ion: 43 Resp: 27269

Ion Ratio Lower Upper

43 100

58 30.4 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10000

8000

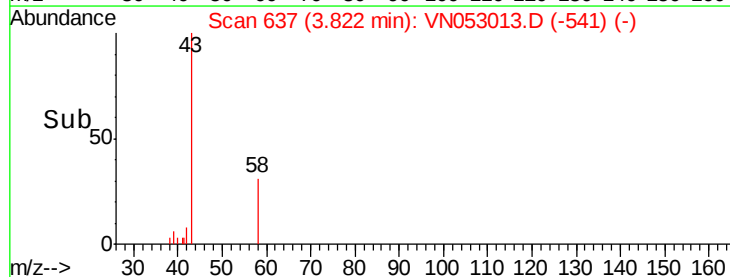
6000

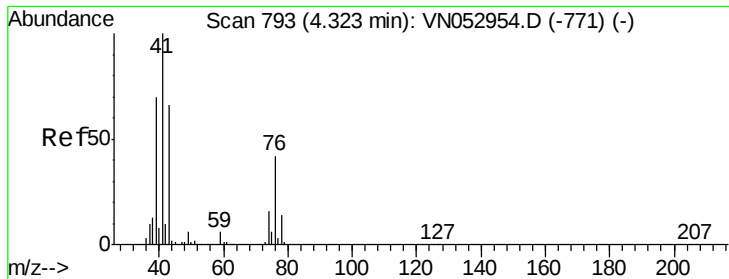
4000

2000

0

Time-->

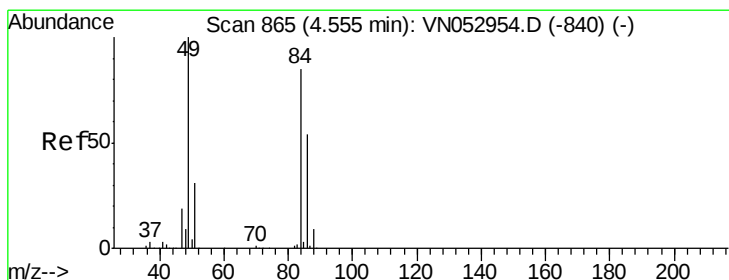
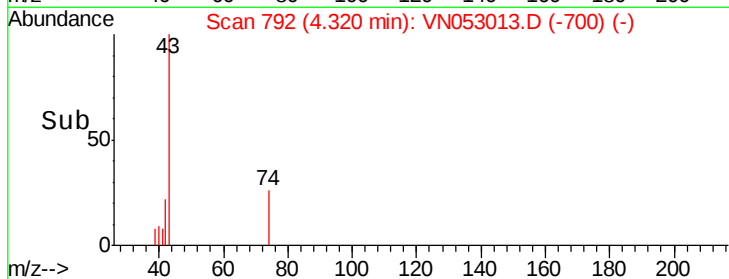
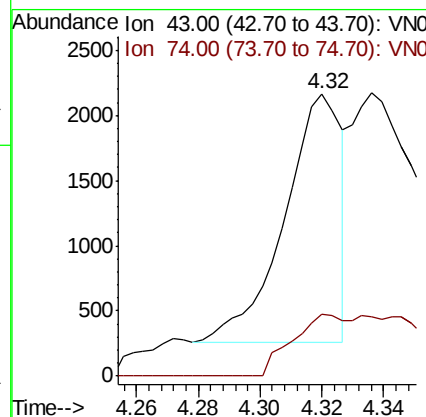
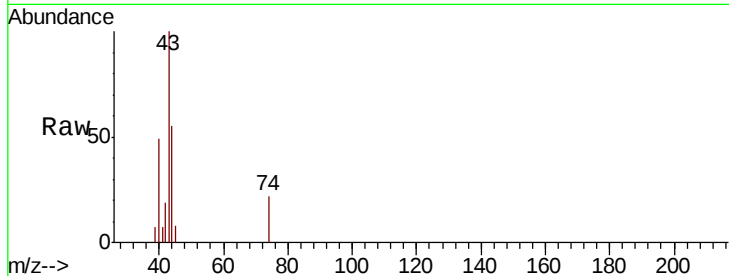




#18
Methvl Acetate
Concen: 1.182 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053013.D
Acq: 19 Dec 2018 16:10

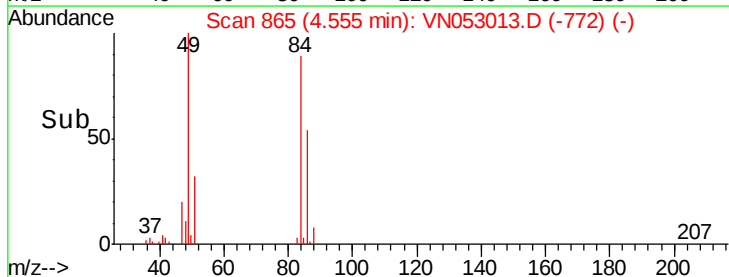
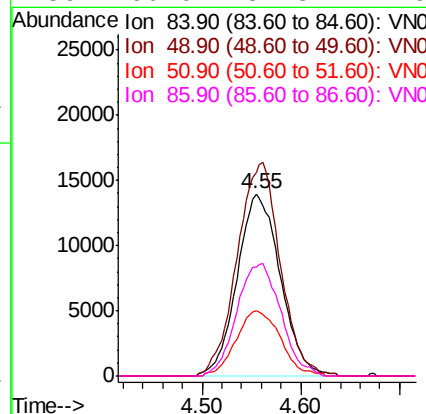
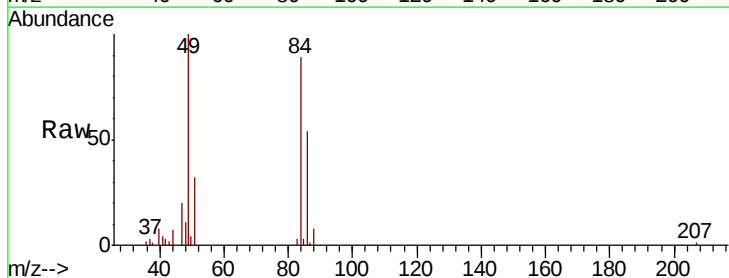
Instrument :
MSVOA_N
ClientSampleId :

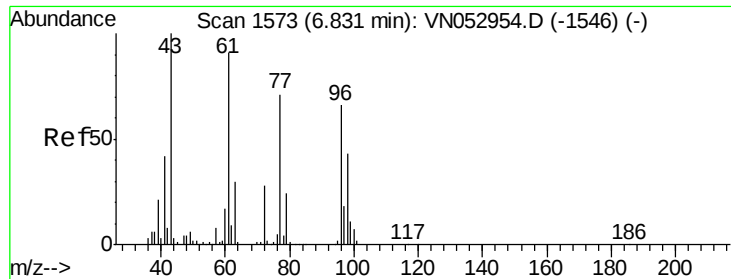
Tot Ion: 43 Resp: 2439
Ion Ratio Lower Upper
43 100
74 21.9 19.2 28.8



#20
Methylene Chloride
Concen: 2.807 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053013.D
Acq: 19 Dec 2018 16:10

Tgt Ion: 84 Resp: 42349
Ion Ratio Lower Upper
84 100
49 112.1 96.8 145.2
51 35.6 29.9 44.9
86 60.0 51.8 77.6

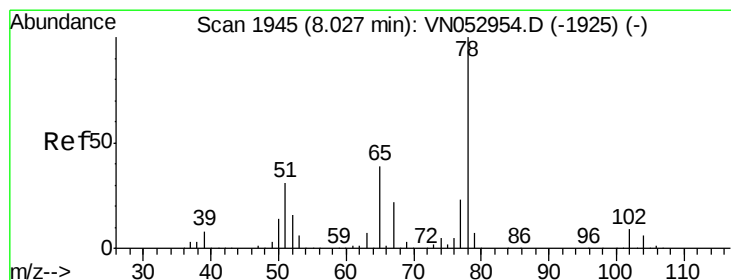
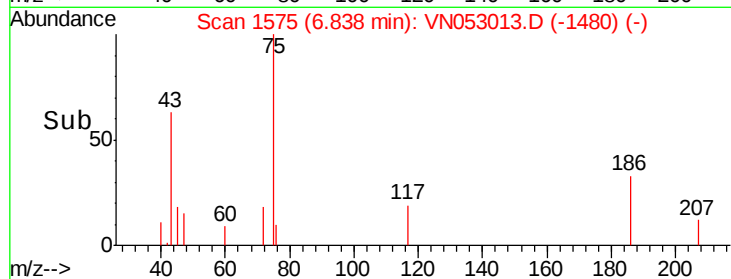
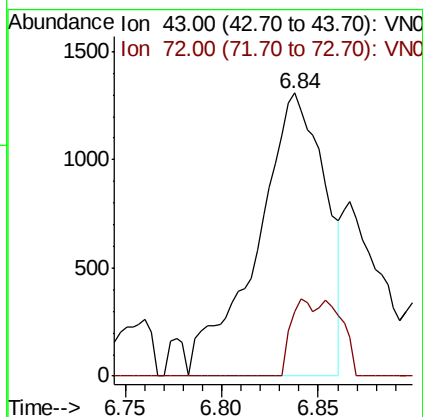
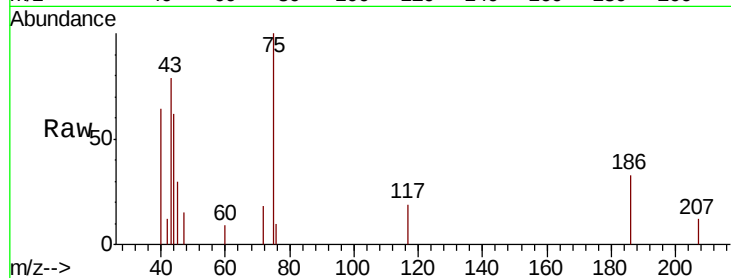




#25
2-Butanone
Concen: 0.694 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN053013.D
Acq: 19 Dec 2018 16:10

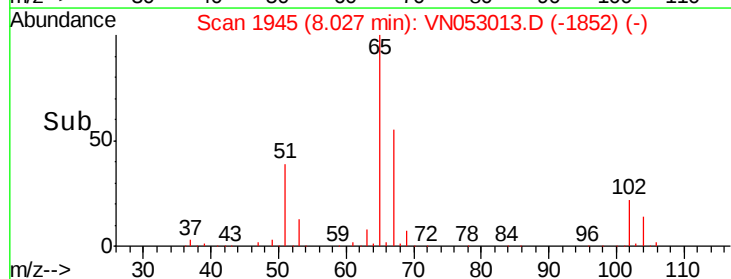
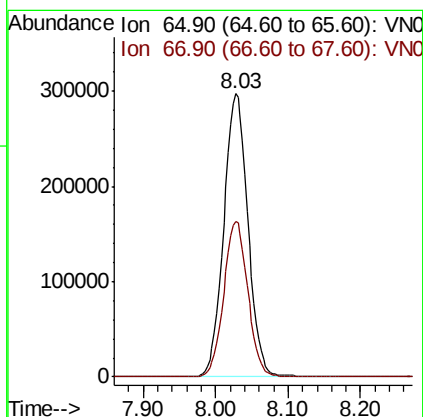
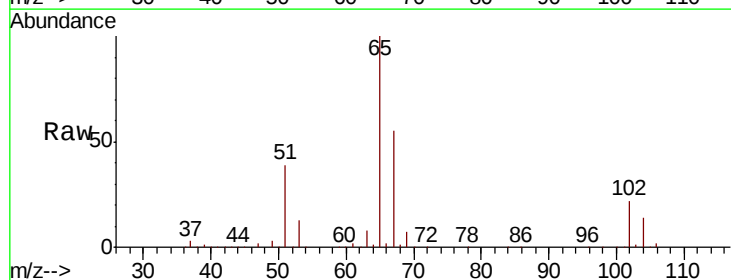
Instrument :
MSVOA_N
ClientSampled :

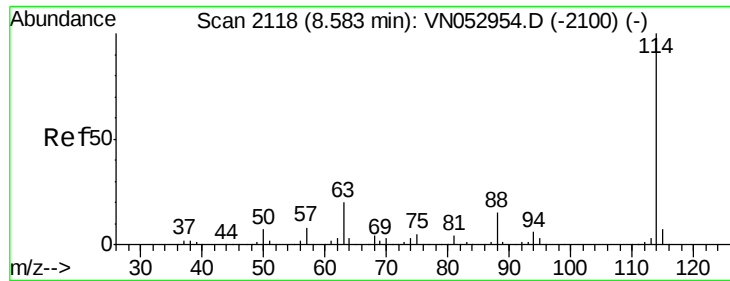
Tot Ion: 43 Resp: 3223
Ion Ratio Lower Upper
43 100
72 22.8 21.0 31.6



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053013.D
Acq: 19 Dec 2018 16:10

Tgt Ion: 65 Resp: 688957
Ion Ratio Lower Upper
65 100
67 54.5 0.0 110.4

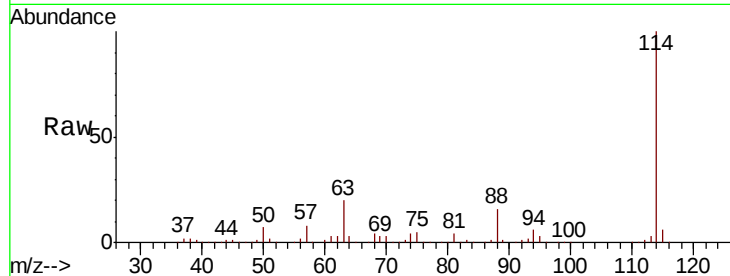




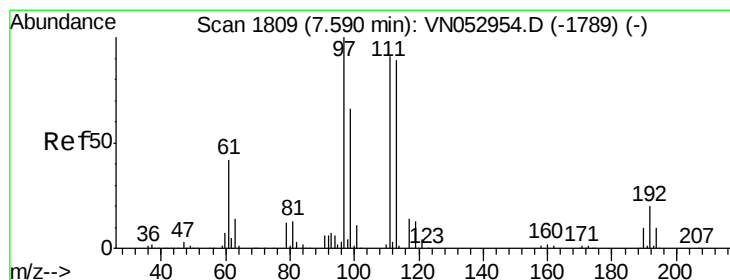
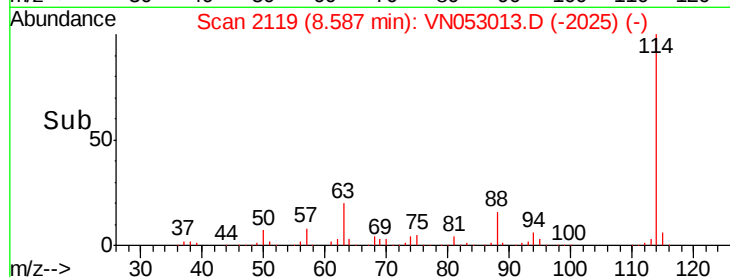
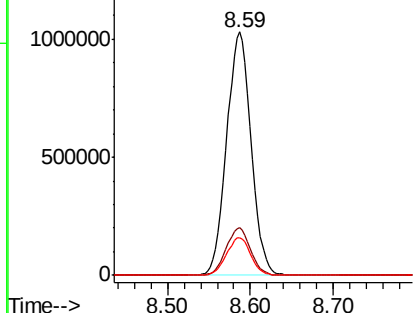
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 2114149
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.6 0.0 31.0

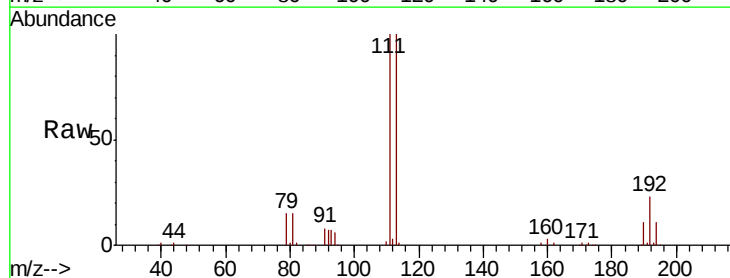


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

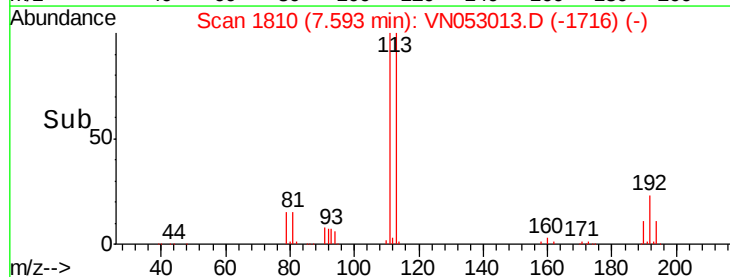
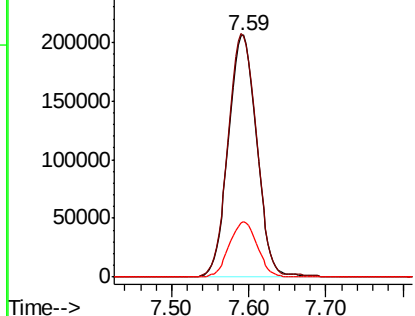


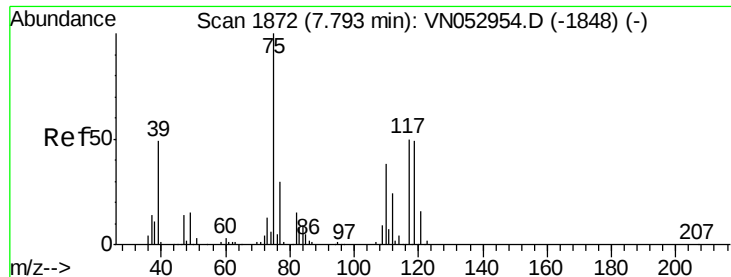
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Tgt Ion:113 Resp: 524526
 Ion Ratio Lower Upper
 113 100
 111 100.6 83.0 124.4
 192 22.6 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

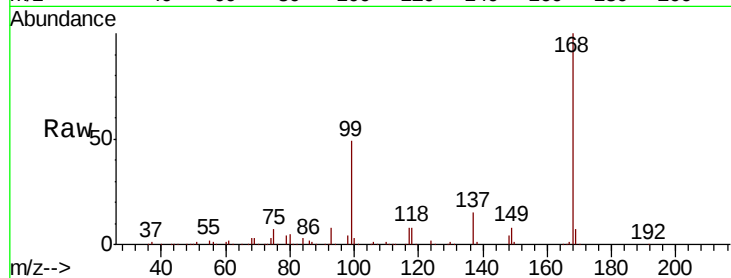




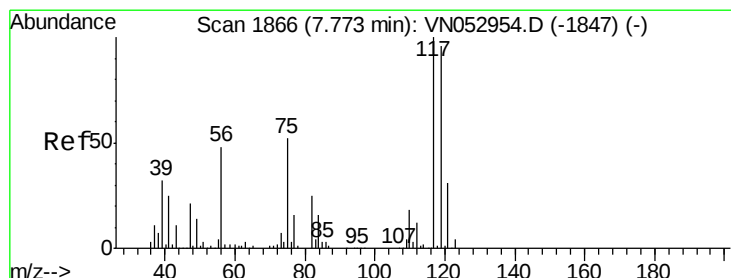
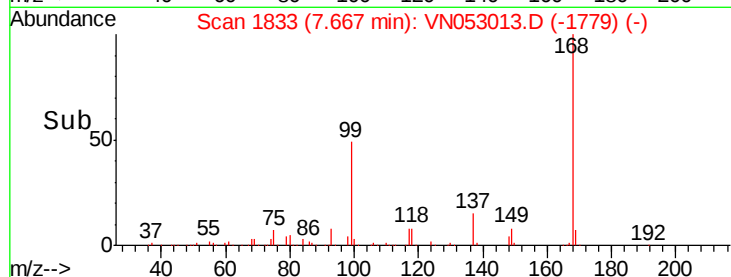
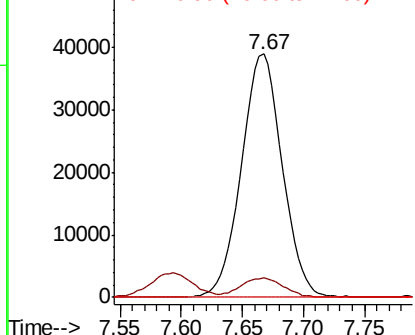
#36
 1,1-Dichloropropene
 Concen: 4.439 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	18.2	54.6#
77	0.0	24.9	37.3#

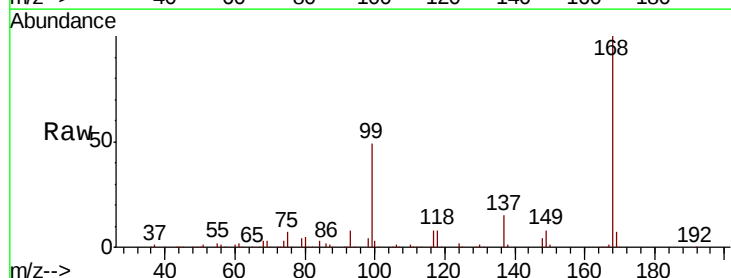


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

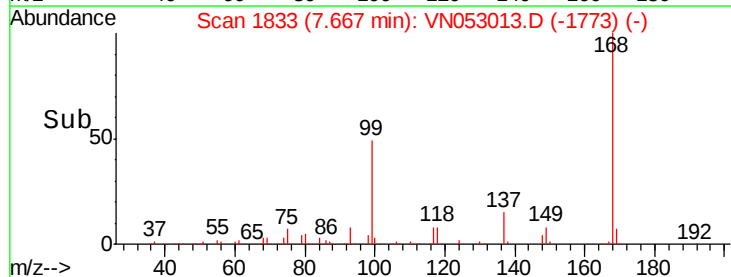
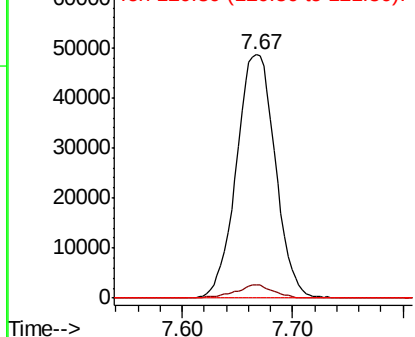


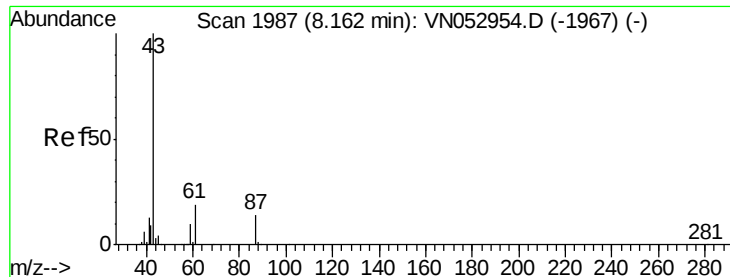
#38
 Carbon Tetrachloride
 Concen: 6.382 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	77.1	115.7#
121	0.0	24.9	37.3#



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





#43

Isopropyl Acetate

Concen: 2.657 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

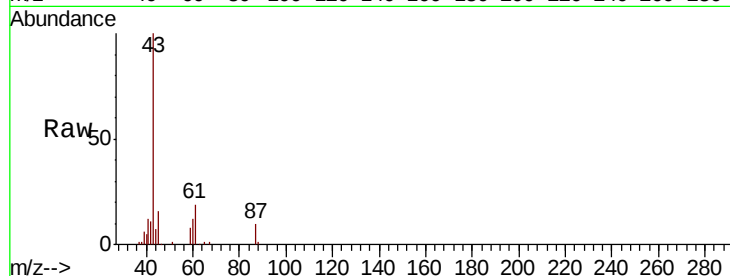
Tot Ion: 43 Resp: 79933

Ion Ratio Lower Upper

43 100

61 18.4 22.9 34.3#

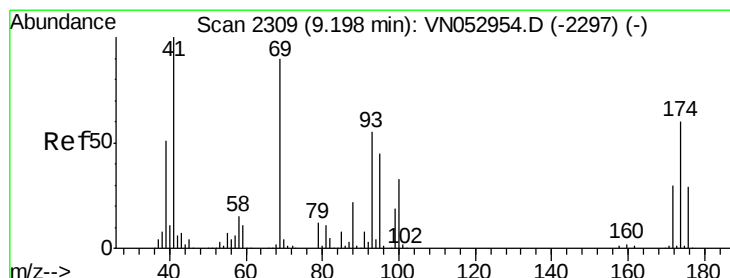
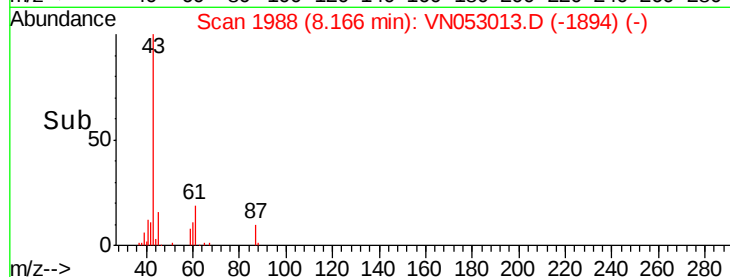
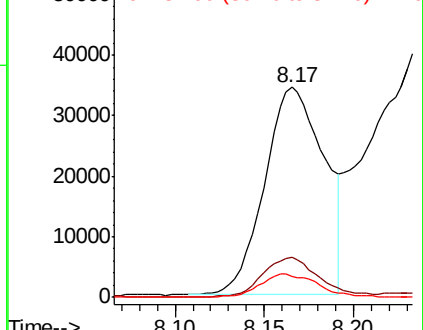
87 10.9 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052954.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052954.D (-1967) (-)



#48

Methyl methacrylate

Concen: 2.245 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

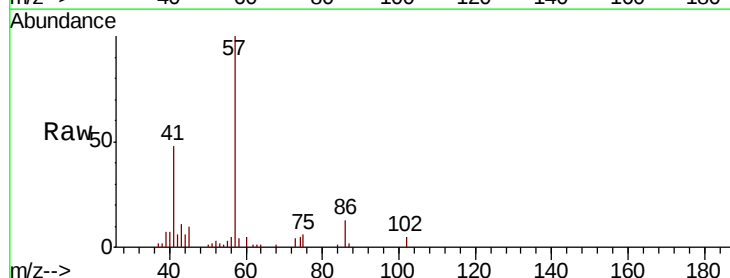
Tgt Ion: 41 Resp: 24674

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

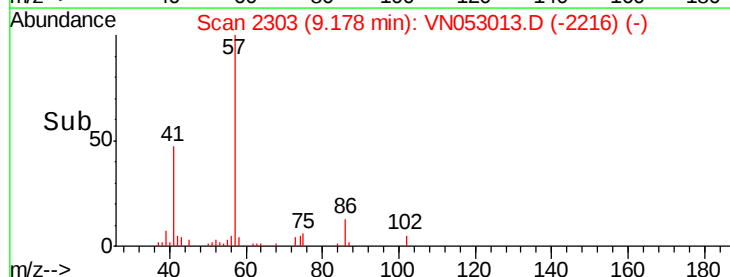
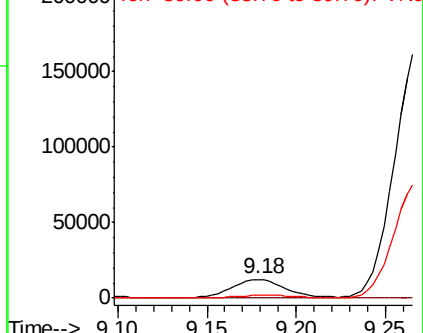
39 18.2 41.9 62.9#

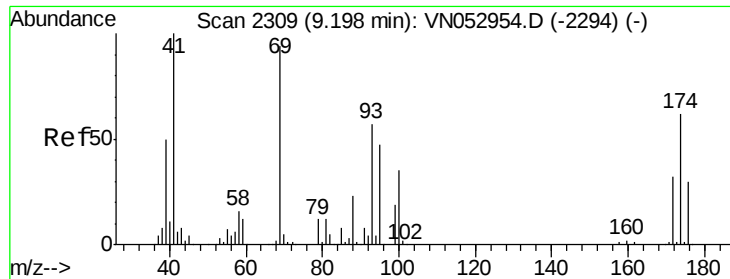


Abundance Ion 41.00 (40.70 to 41.70): VN052954.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN052954.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN052954.D (-2297) (-)





#49

1,4-Dioxane

Concen: 3.999 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

ClientSampled :

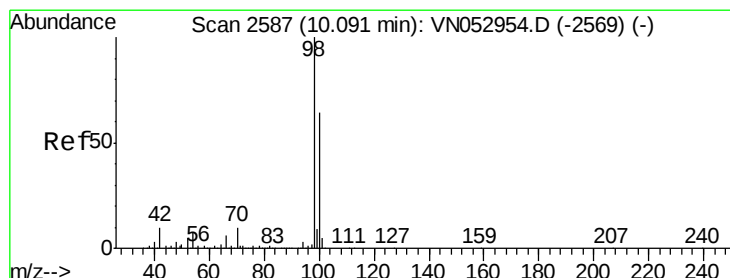
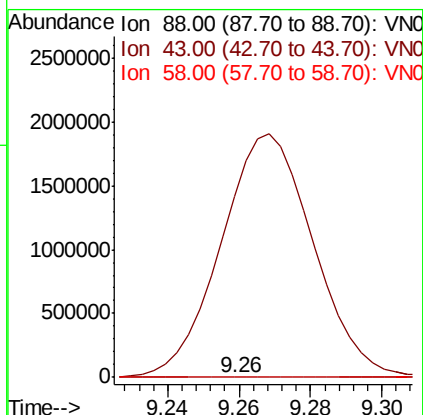
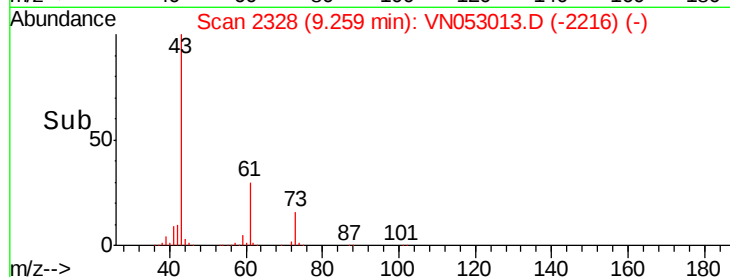
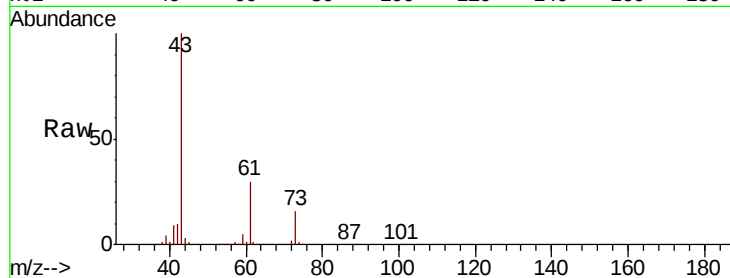
Tot Ion: 88 Resp: 556

Ion Ratio Lower Upper

88 100

43 617889.7 26.6 40.0#

58 2649.3 58.4 87.6#



#50

Toluene-d8

Concen: 3.999 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053013.D

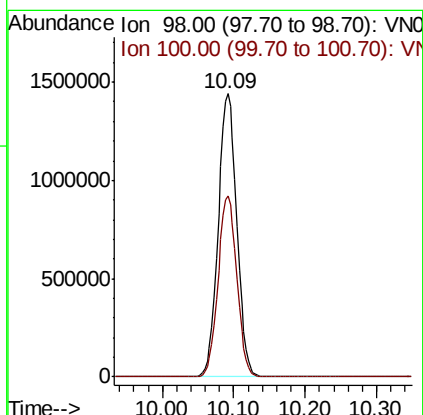
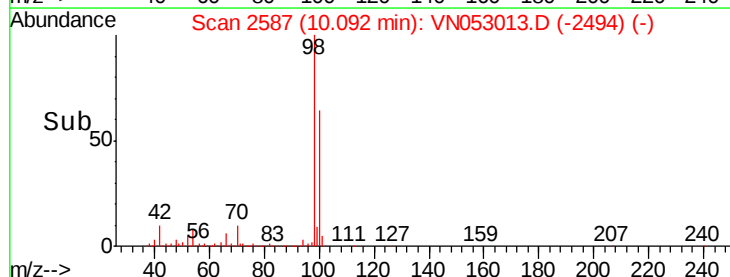
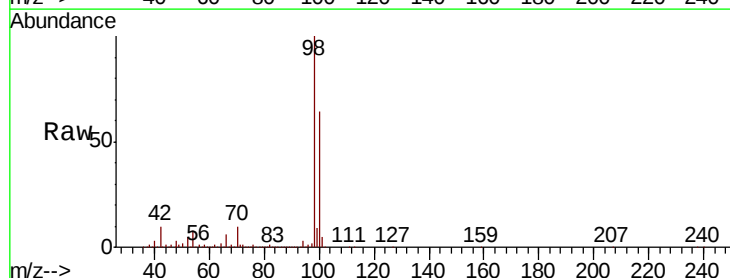
Acq: 19 Dec 2018 16:10

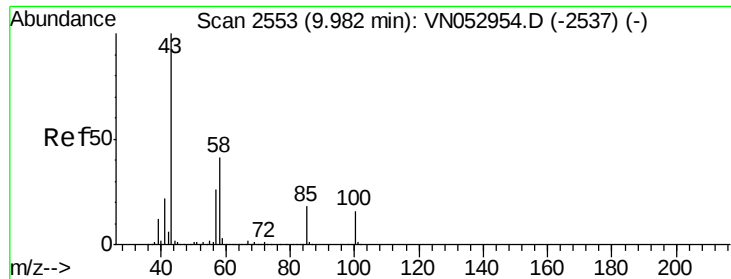
Tgt Ion: 98 Resp: 2590713

Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 2.598 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

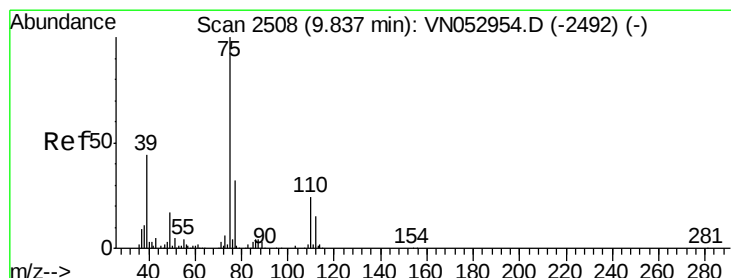
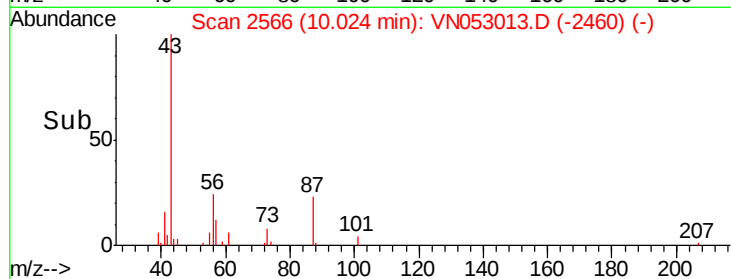
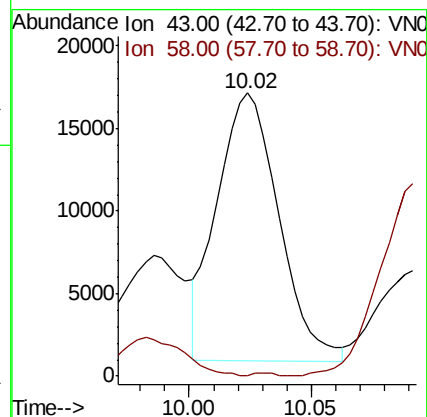
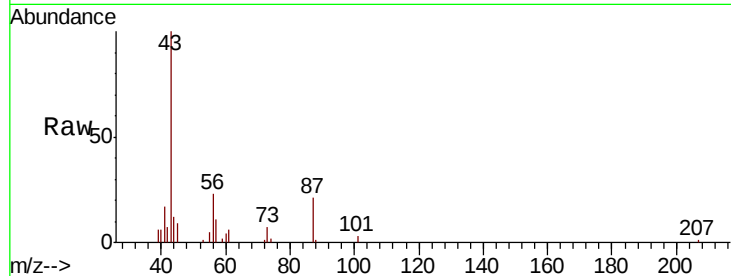
ClientSampleId :

Tot Ion: 43 Resp: 28505

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.459 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

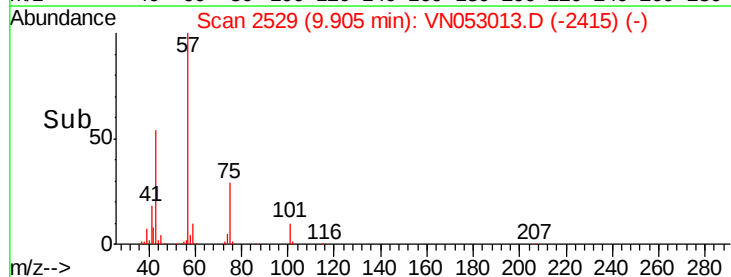
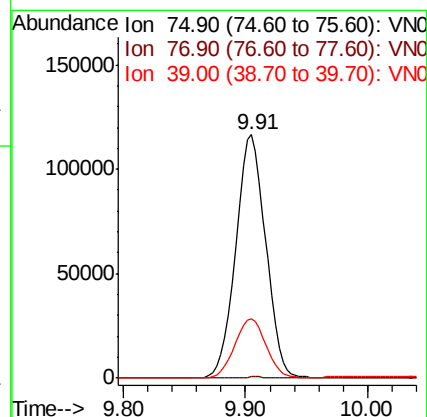
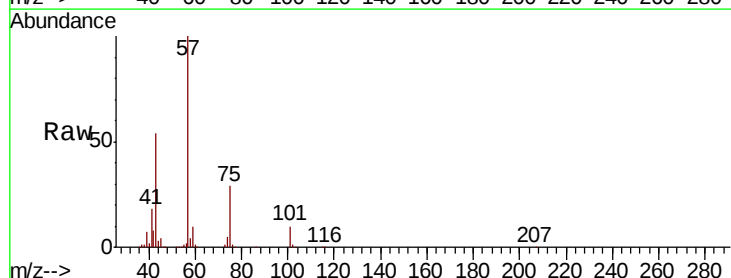
Tgt Ion: 75 Resp: 198770

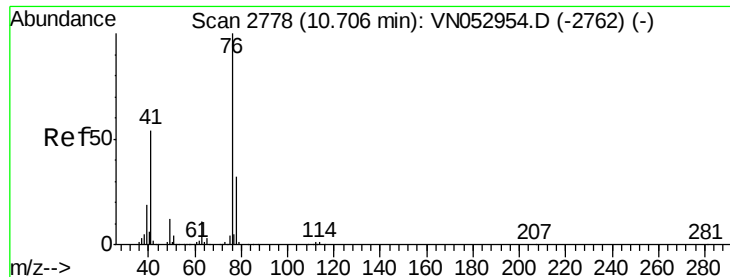
Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

39 24.4 34.8 52.2#

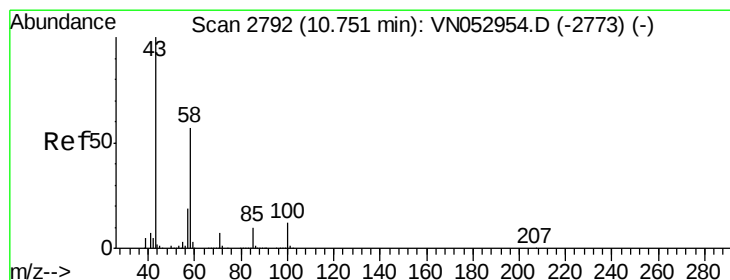
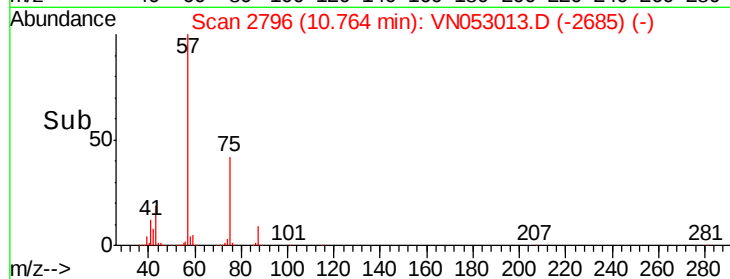
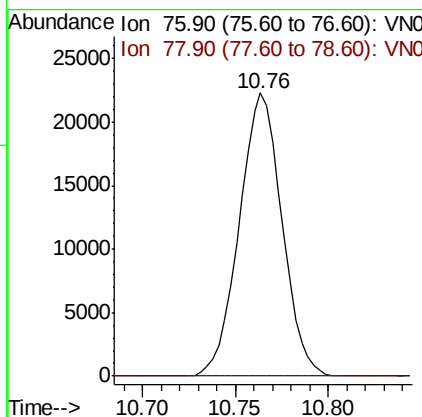
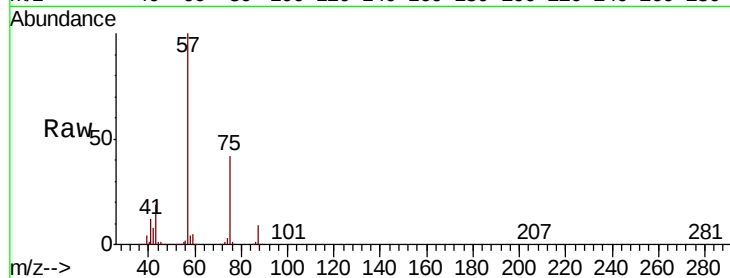




#57
 1,3-Dichloropropane
 Concen: 1.587 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

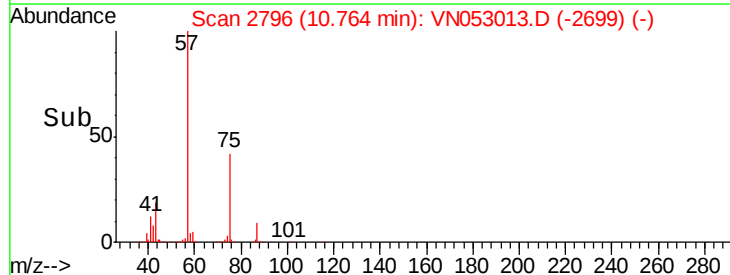
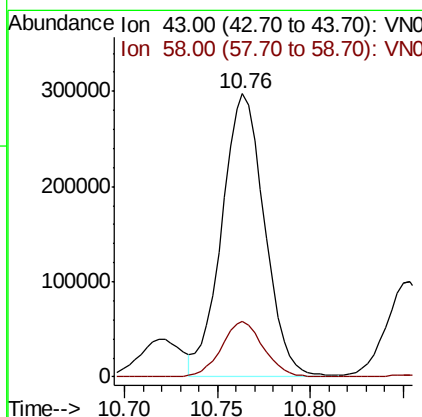
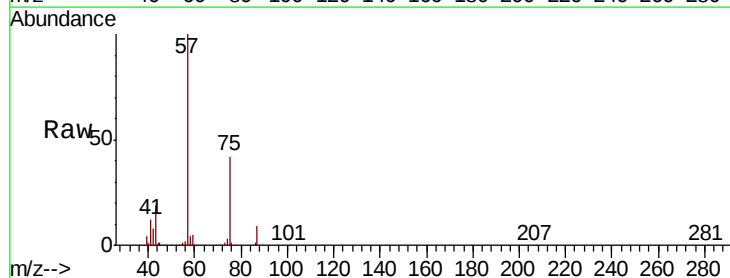
Instrument :
 MSVOA_N
 ClientSampleId :

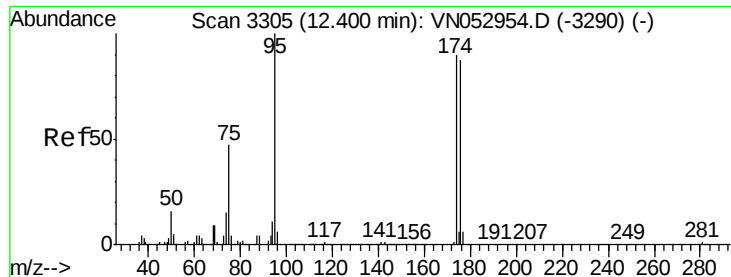
Tot Ion: 76 Resp: 35519
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 63.783 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Tgt Ion: 43 Resp: 473417
 Ion Ratio Lower Upper
 43 100
 58 19.5 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: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

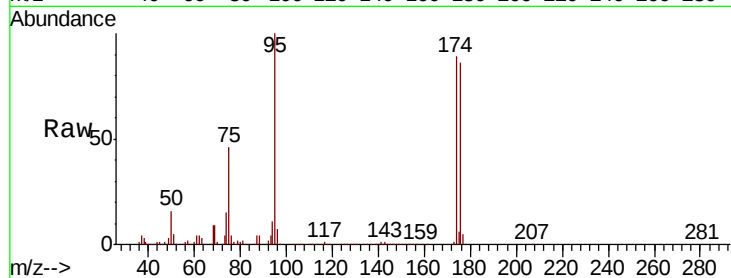
Tot Ion: 95 Resp: 823232

Ion Ratio Lower Upper

95 100

174 89.9 0.0 178.8

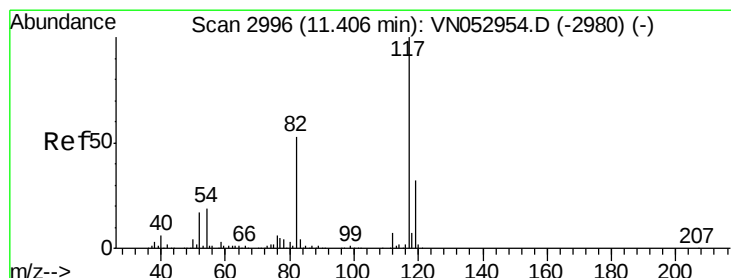
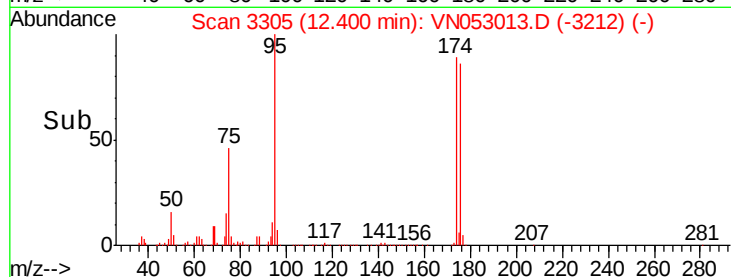
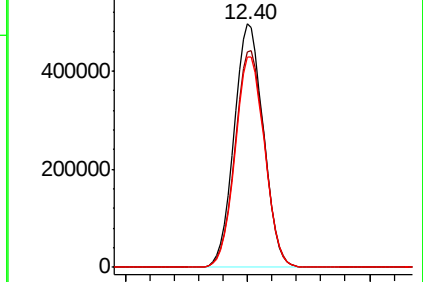
176 87.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

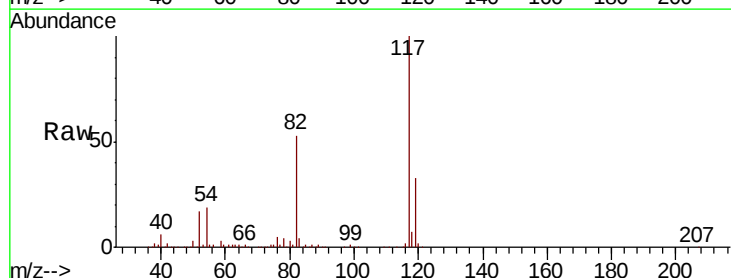
Tgt Ion: 117 Resp: 1876404

Ion Ratio Lower Upper

117 100

82 53.2 42.8 64.2

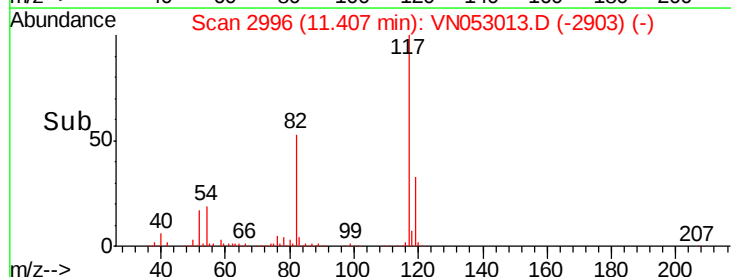
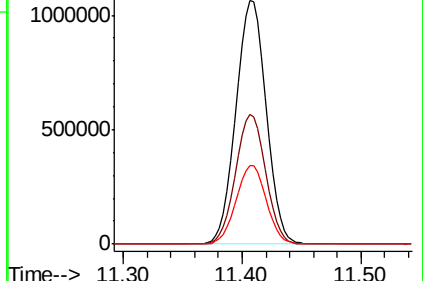
119 32.5 25.5 38.3

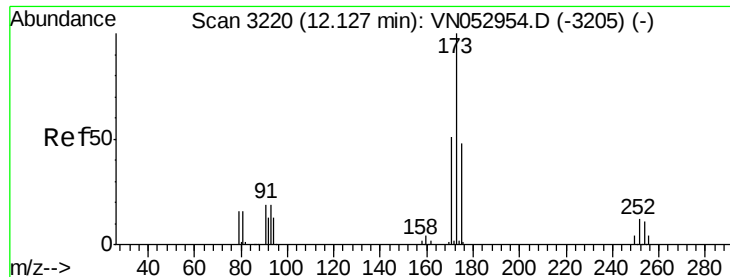


Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)





#71

Bromoform

Concen: 0.502 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

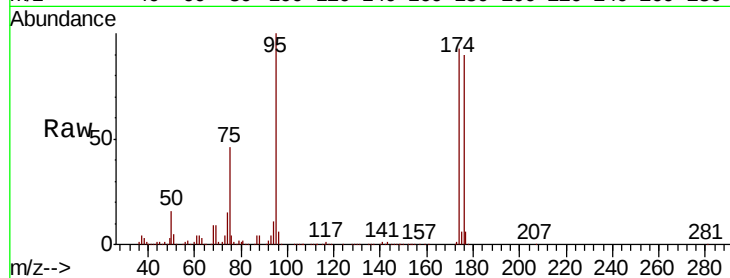
Tot Ion:173 Resp: 5243

Ion Ratio Lower Upper

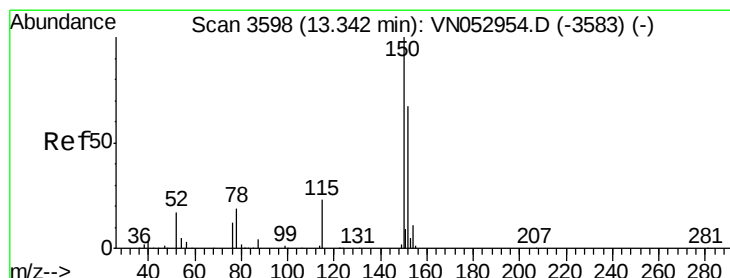
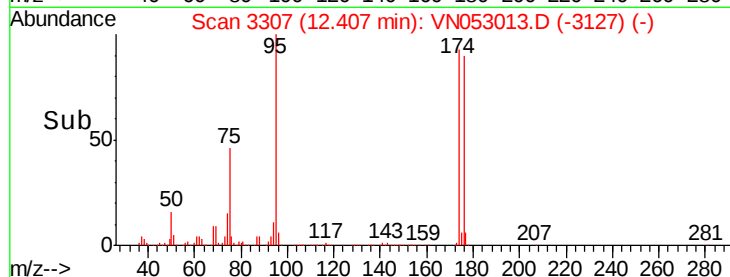
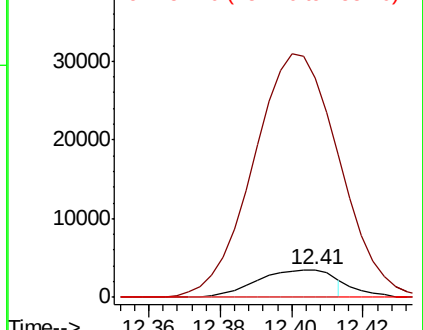
173 100

175 870.0 24.3 72.9#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VN053013.D

Acq: 19 Dec 2018 16:10

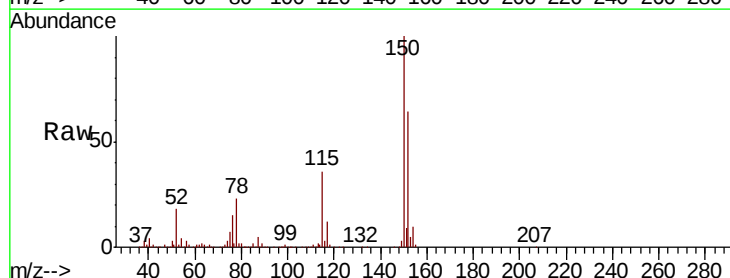
Tgt Ion:152 Resp: 699631

Ion Ratio Lower Upper

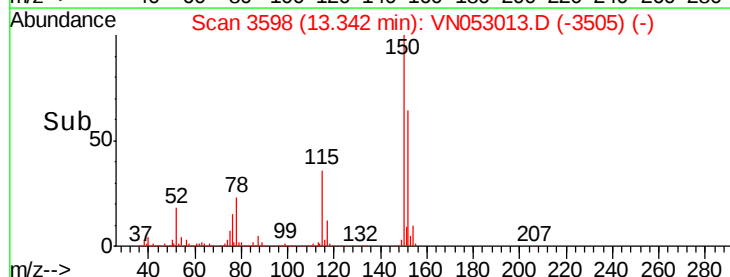
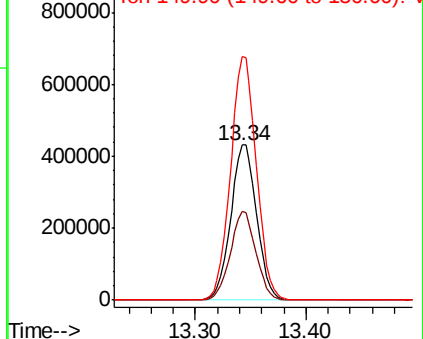
152 100

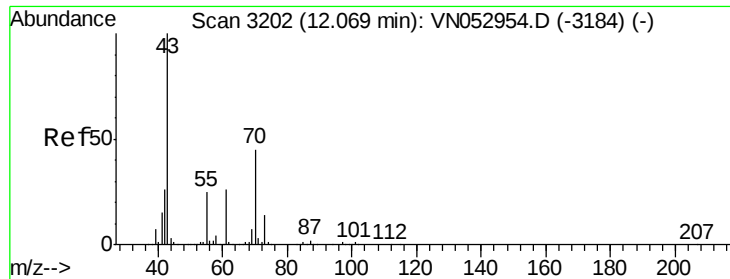
115 56.6 28.3 85.0

150 156.7 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-amyl acetate

Concen: 4.110 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 62468

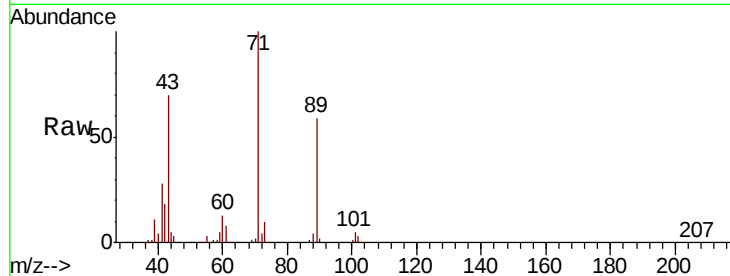
Ion Ratio Lower Upper

43 100

70 2.1 34.2 51.4#

55 4.9 20.3 30.5#

61 11.4 20.0 30.0#

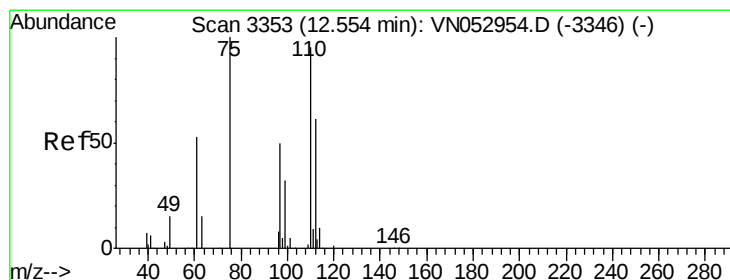
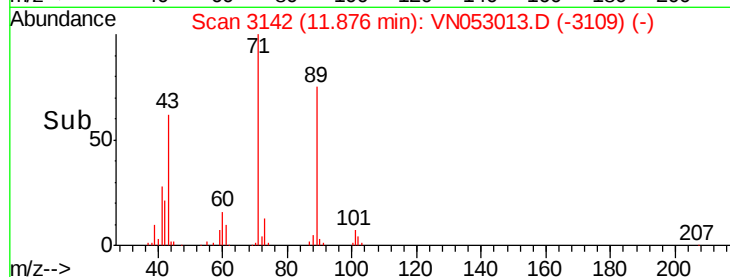
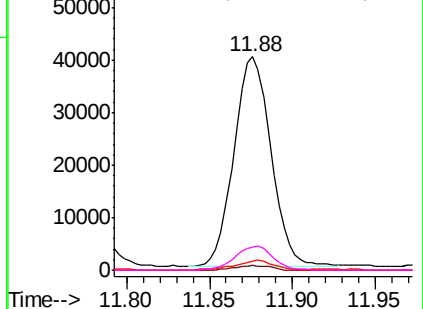


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.493 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053013.D

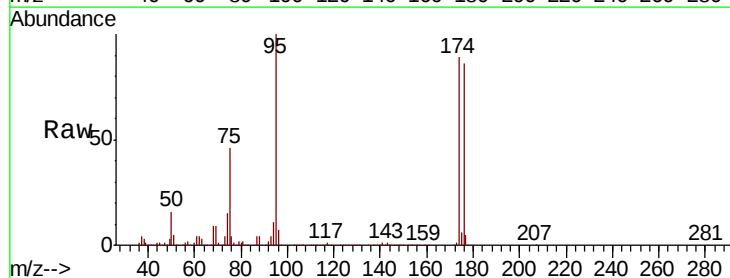
Acq: 19 Dec 2018 16:10

Tgt Ion: 75 Resp: 382693

Ion Ratio Lower Upper

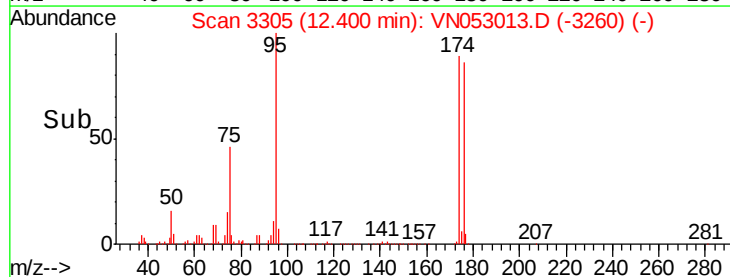
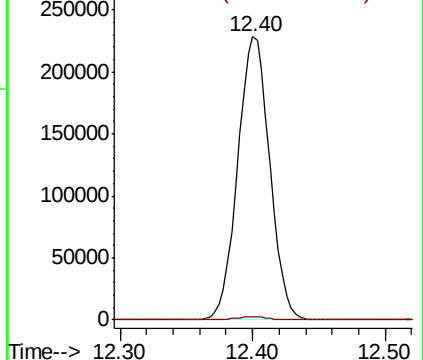
75 100

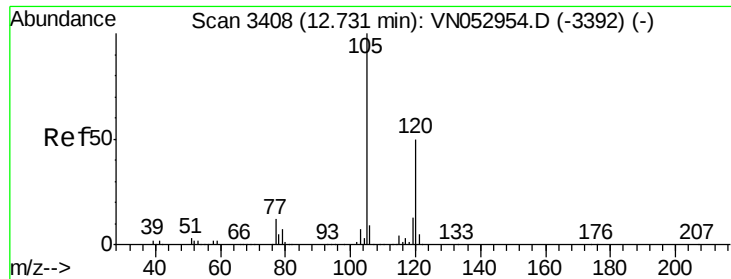
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.517 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

Instrument :

MSVOA_N

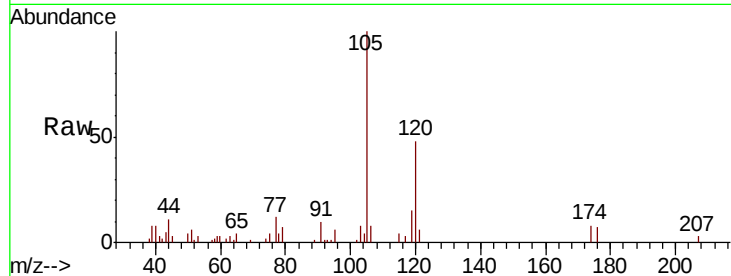
ClientSampleId :

Tot Ion:105 Resp: 23071

Ion Ratio Lower Upper

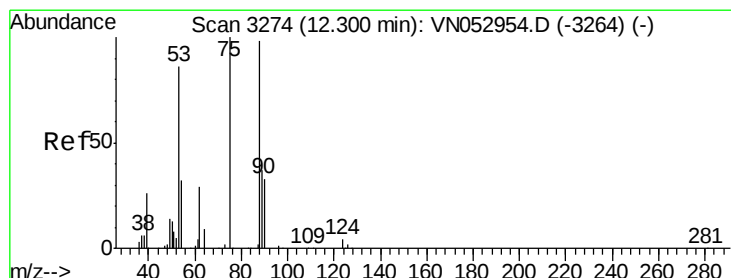
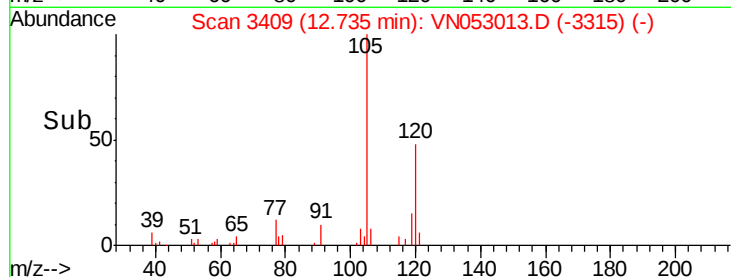
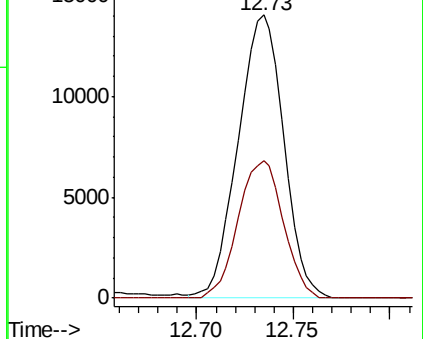
105 100

120 47.9 24.4 73.2



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: 104.730 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053013.D

Acq: 19 Dec 2018 16:10

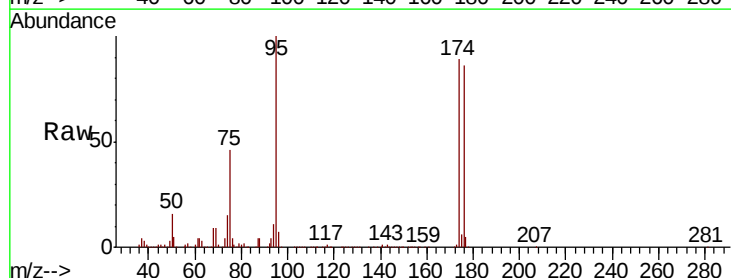
Tgt Ion: 75 Resp: 382693

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

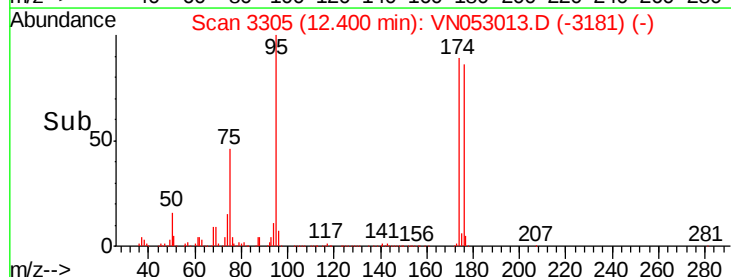
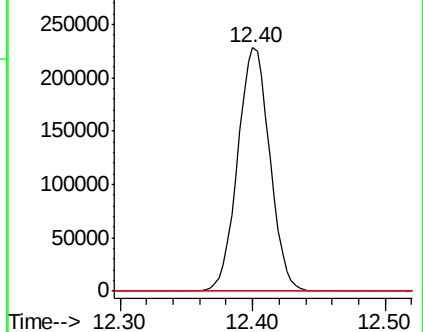
89 0.0 36.1 54.1#

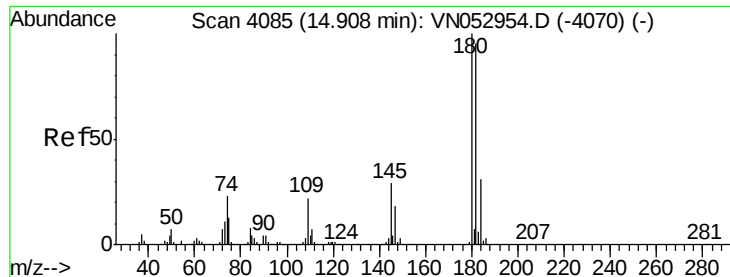


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

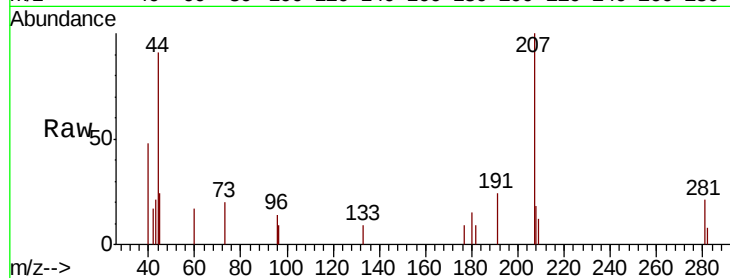




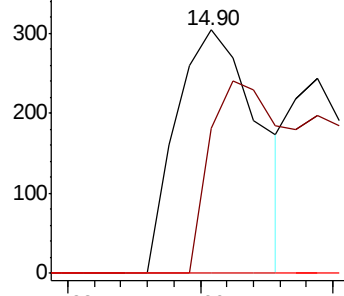
#93
 1,2,4-Trichlorobenzene
 Concen: 0.617 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Instrument :
 MSVOA_N
 ClientSampled :

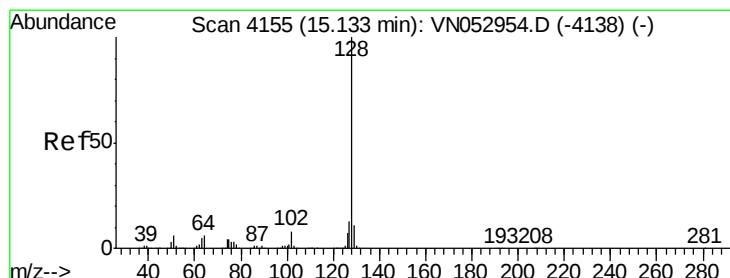
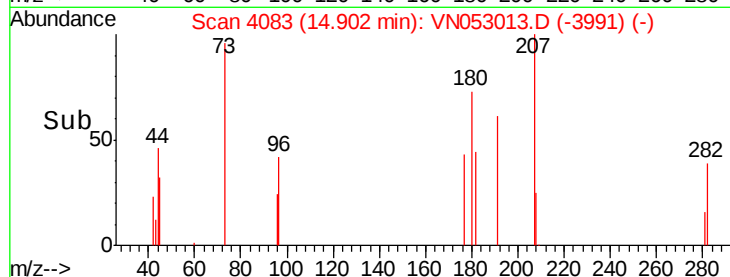
Tot Ion	Ratio	Lower	Upper
180	100		
182	102.7	47.8	143.3
145	0.0	14.2	42.6#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

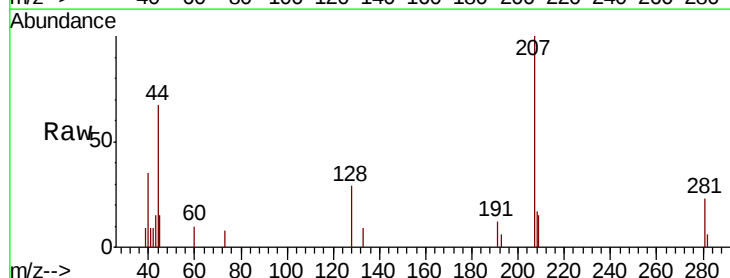


Time--> 14.88 14.90

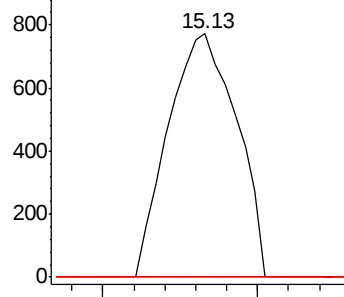


#95
 Naphthalene
 Concen: 1.189 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN053013.D
 Acq: 19 Dec 2018 16:10

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
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--> 15.10 15.15

