

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN010319\
 Data File : VN053263.D
 Acq On : 3 Jan 2019 15:37
 Operator : MD\SY
 Sample : PB116111ZHE#08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#08

Quant Time: Jan 04 00:54:53 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	1113688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1742616	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1625569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	667539	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	561406	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
35) Dibromofluoromethane	7.59	113	478352	60.09	ug/l	0.00
Spiked Amount			Recovery	=	120.18%	
50) Toluene-d8	10.09	98	2165664	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
62) 4-Bromofluorobenzene	12.40	95	734730	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	

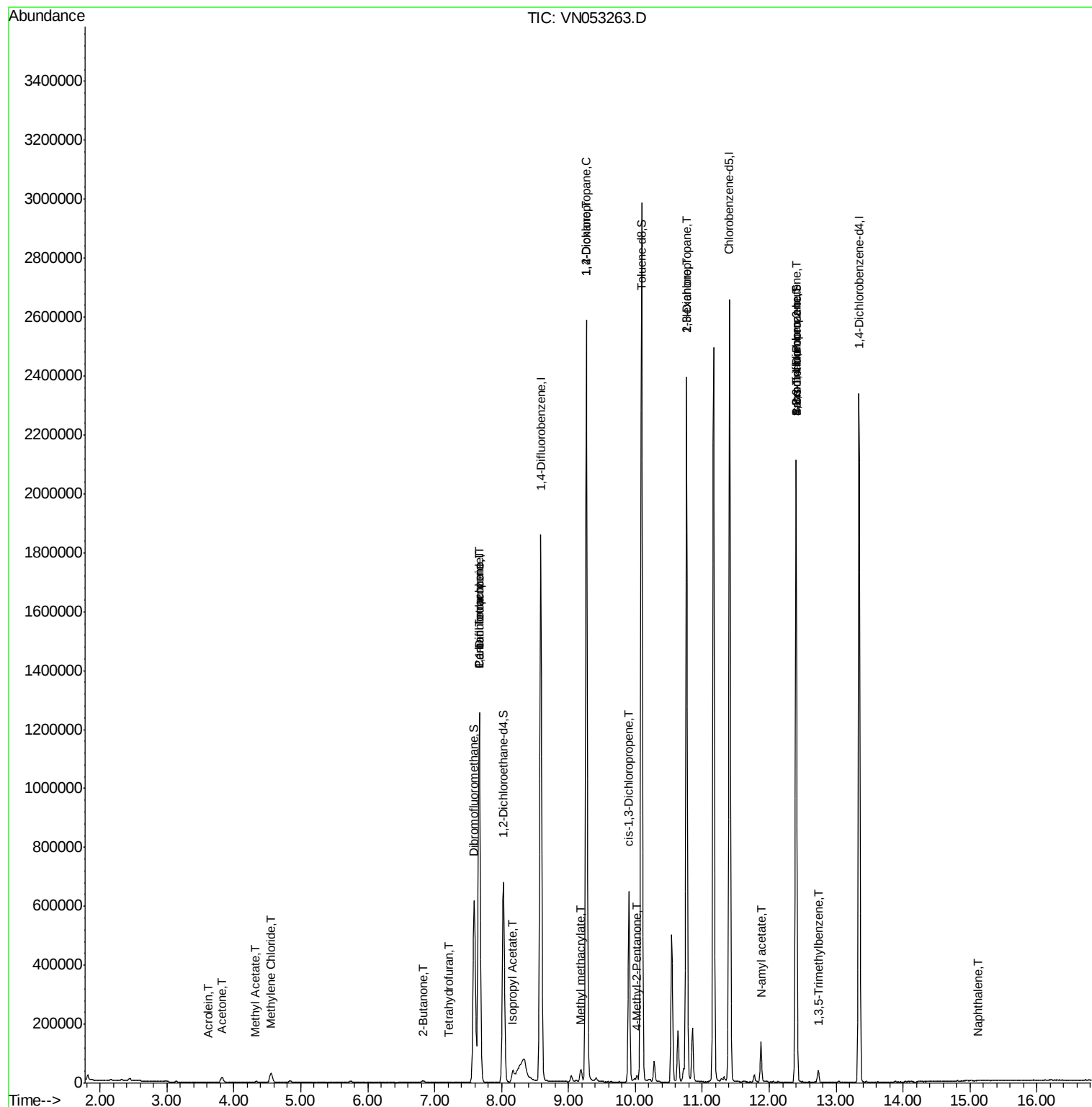
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	150	0.240	ug/l #	14
16) Acetone	3.82	43	31091	14.031	ug/l	97
18) Methyl Acetate	4.33	43	7993	1.771	ug/l #	68
20) Methylene Chloride	4.55	84	25426	2.103	ug/l	90
25) 2-Butanone	6.84	43	4201	1.130	ug/l	95
29) Tetrahydrofuran	7.22	42	2298	0.827	ug/l #	86
31) Cyclohexane	7.67	56	17327	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	73283	4.381	ug/l #	48
38) Carbon Tetrachloride	7.66	117	95300	6.216	ug/l #	16
43) Isopropyl Acetate	8.17	43	55822	2.088	ug/l #	81
45) 1,2-Dichloropropane	9.27	63	3241	0.250	ug/l #	44
48) Methyl methacrylate	9.18	41	14175	1.564	ug/l #	12
49) 1,4-Dioxane	9.27	88	410	3.577	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	18779	2.077	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	121478	6.272	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	24712	1.340	ug/l #	42
59) 2-Hexanone	10.76	43	330360	53.998	ug/l #	51
71) Bromoform	12.40	173	4518	0.499	ug/l #	1
74) N-amyl acetate	11.88	43	40484	2.792	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	347083	30.887	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	21731	0.510	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	347083	99.551	ug/l #	12
95) Naphthalene	15.13	128	275	1.157	ug/l #	69

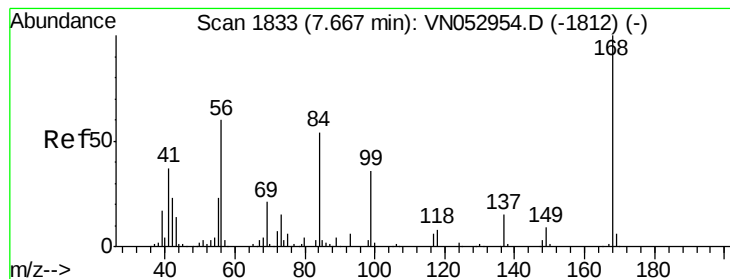
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

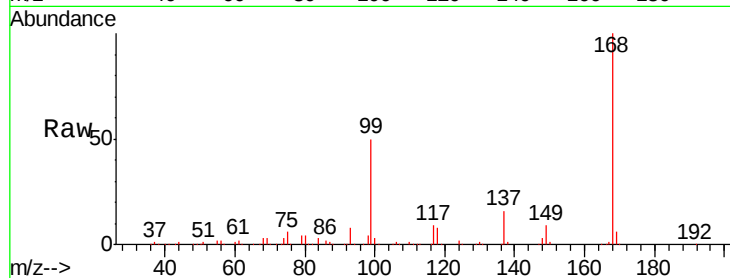
PB116111ZHE#08

Tgt Ion:168 Resp: 1113688

Ion Ratio Lower Upper

168 100

99 49.6 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

400000

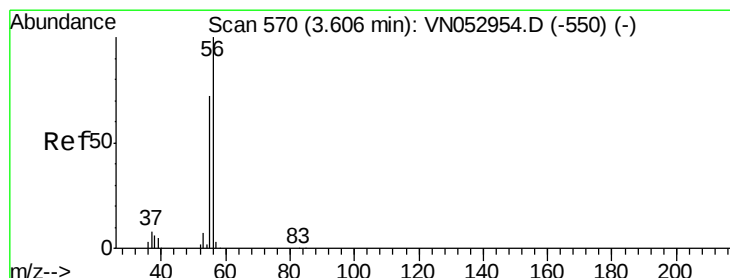
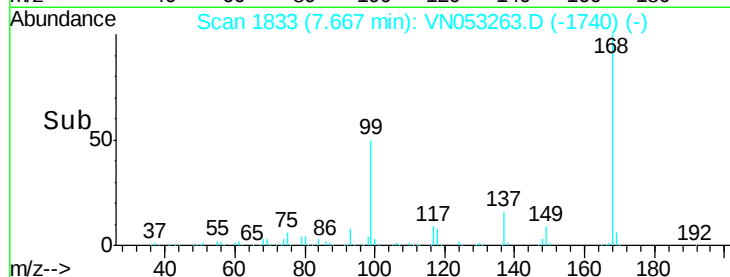
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.240 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN053263.D

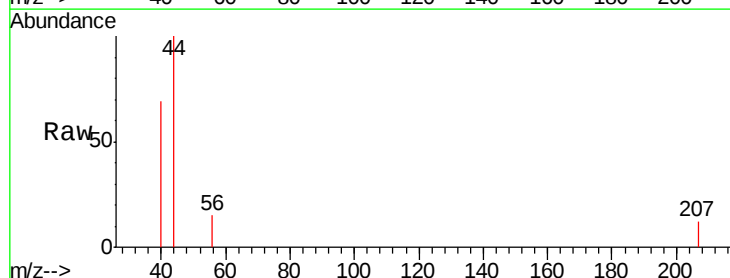
Acq: 3 Jan 2019 15:37

Tgt Ion: 56 Resp: 150

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052954.D (-550) (-)

Ion 55.00 (54.70 to 55.70): VN052954.D (-550) (-)

3.62

250

200

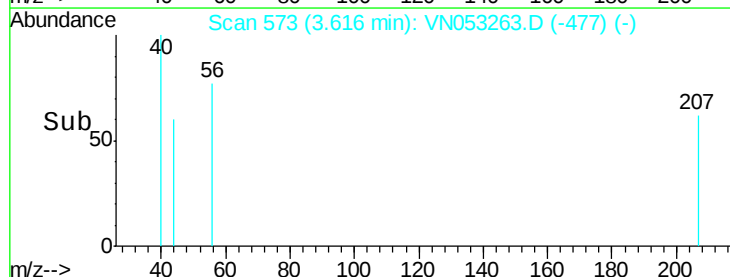
150

100

50

0

Time-->





#16

Acetone

Concen: 14.031 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

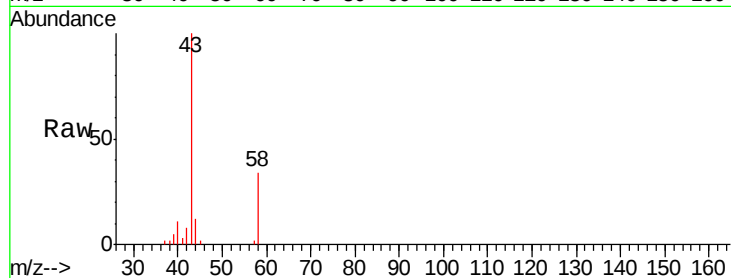
PB116111ZHE#08

Tgt Ion: 43 Resp: 31091

Ion Ratio Lower Upper

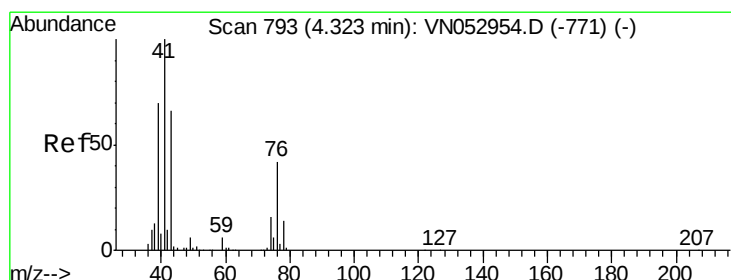
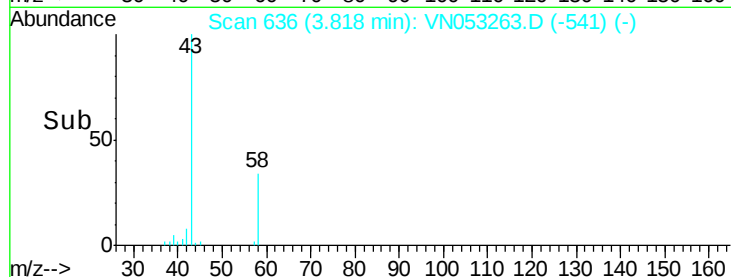
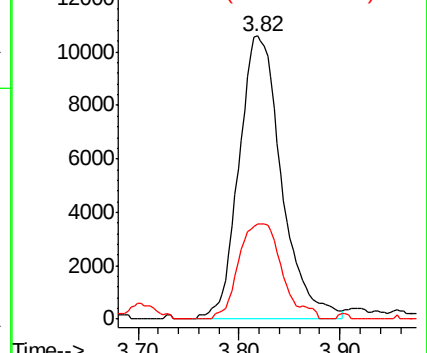
43 100

58 33.6 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.771 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053263.D

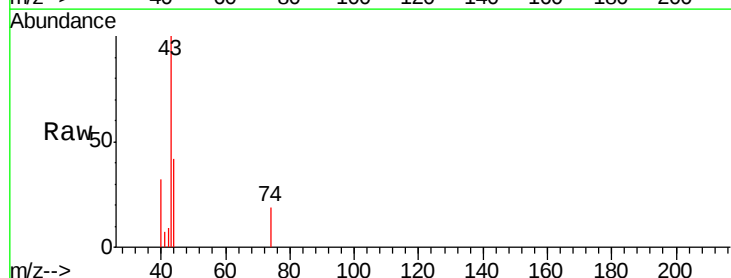
Acq: 3 Jan 2019 15:37

Tgt Ion: 43 Resp: 7993

Ion Ratio Lower Upper

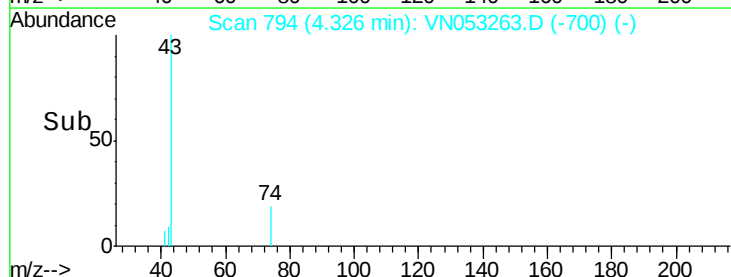
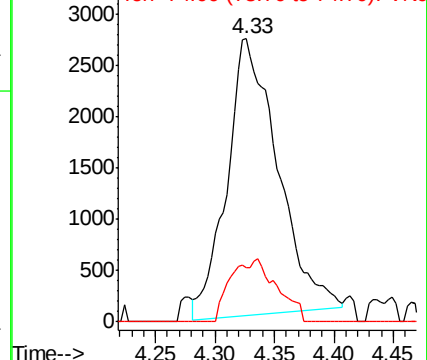
43 100

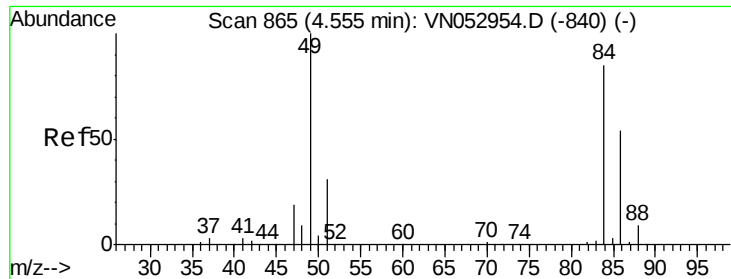
74 8.2 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

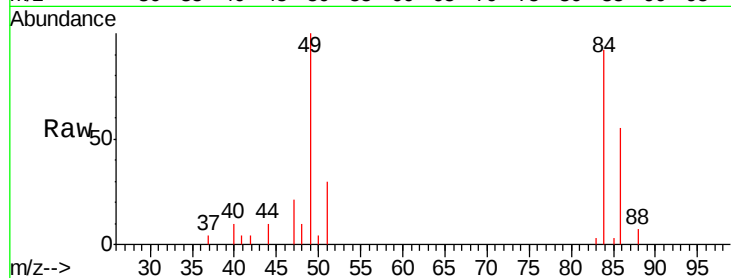




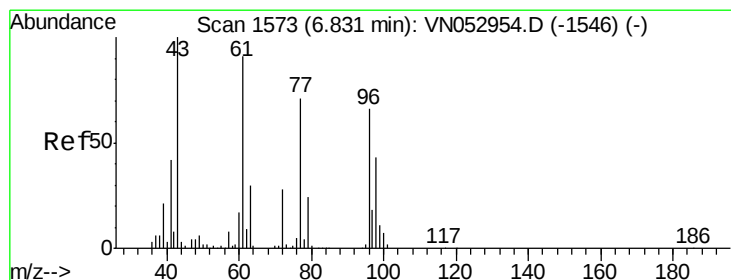
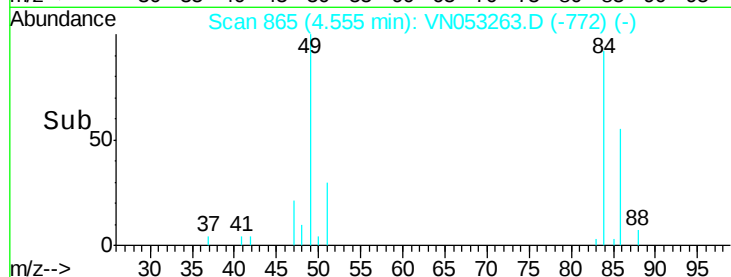
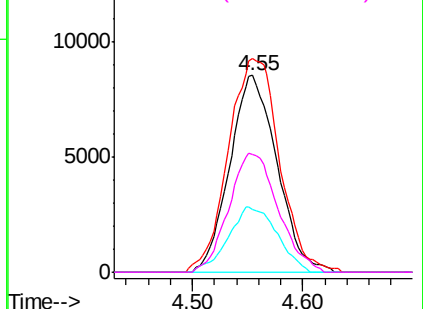
#20
Methylene Chloride
Concen: 2.103 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

Tgt Ion: 84 Resp: 25426
Ion Ratio Lower Upper
84 100
49 106.6 96.8 145.2
51 32.2 29.9 44.9
86 59.9 51.8 77.6

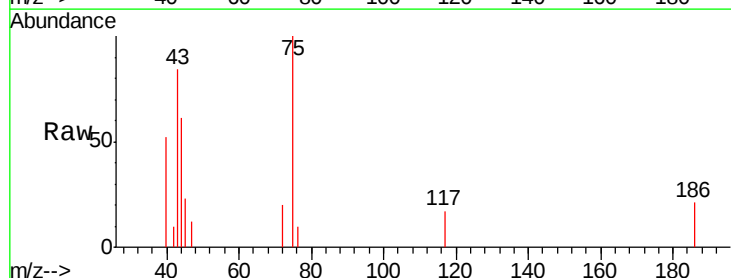


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

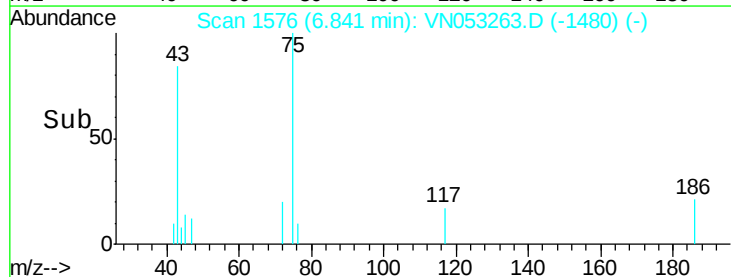
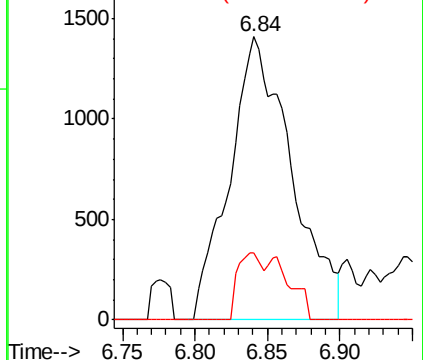


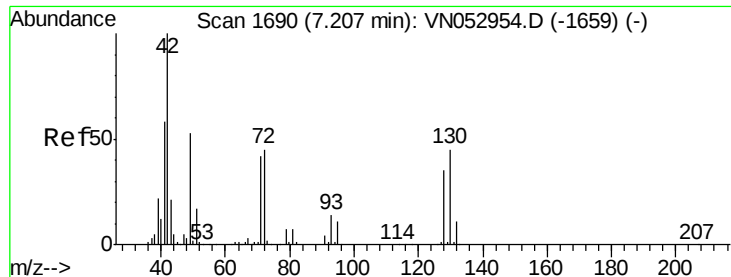
#25
2-Butanone
Concen: 1.130 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion: 43 Resp: 4201
Ion Ratio Lower Upper
43 100
72 23.7 21.0 31.6



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

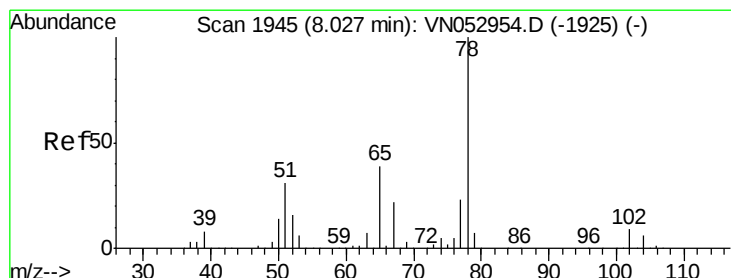
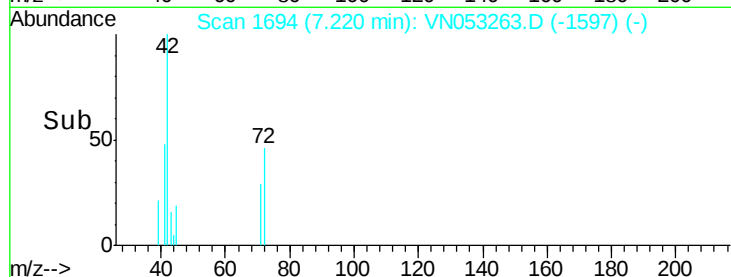
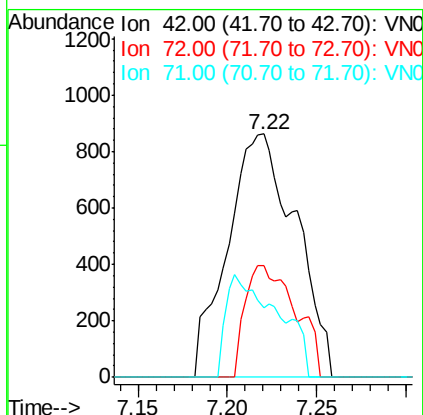
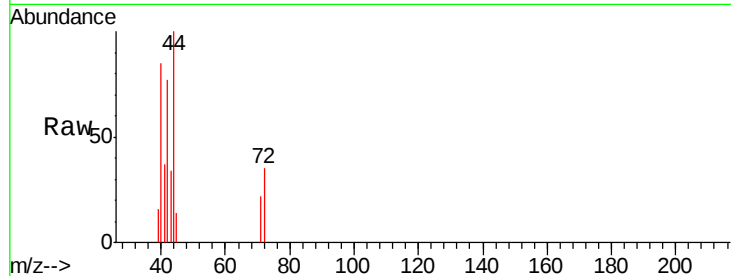




#29
Tetrahydrofuran
Concen: 0.827 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

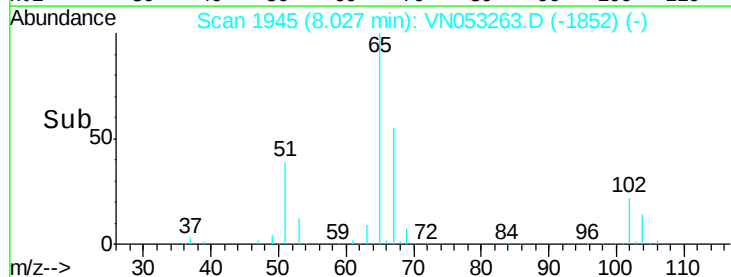
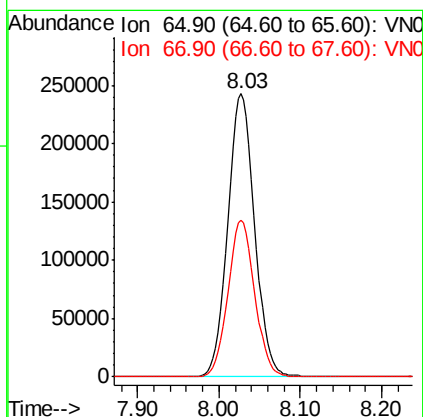
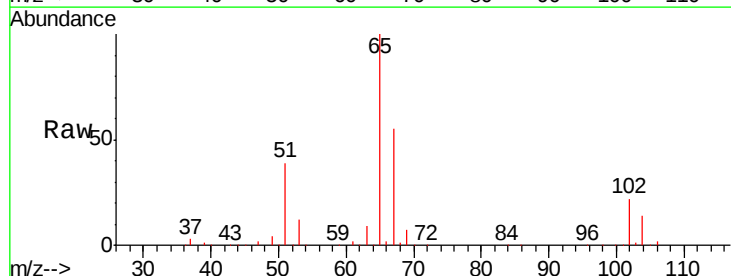
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

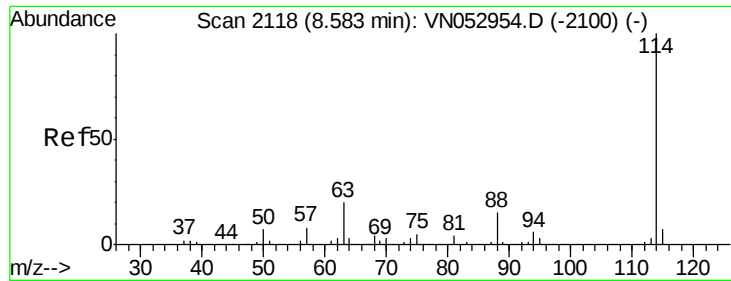
Tgt Ion: 42 Resp: 2298
Ion Ratio Lower Upper
42 100
72 33.8 34.7 52.1#
71 31.9 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion: 65 Resp: 561406
Ion Ratio Lower Upper
65 100
67 55.2 0.0 110.4

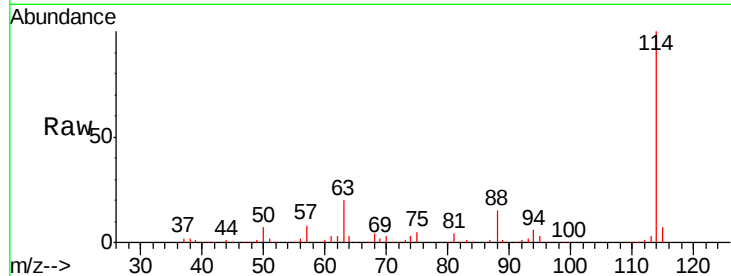




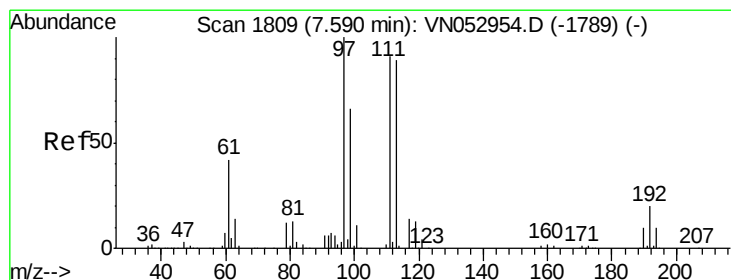
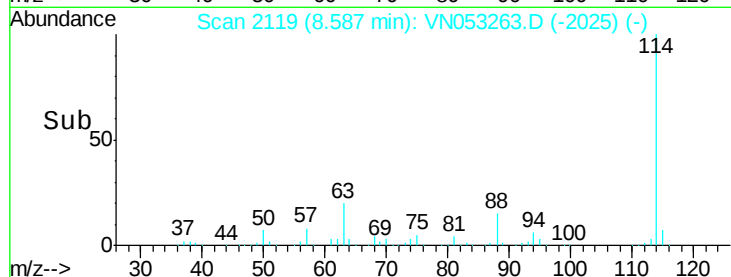
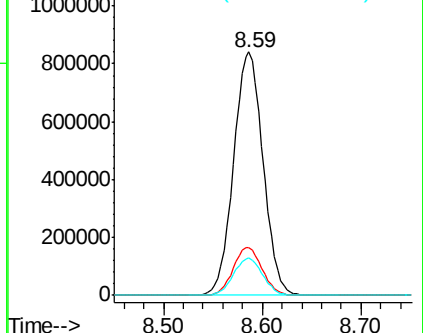
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053263.D
 Acq: 3 Jan 2019 15:37

Instrument :
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 PB116111ZHE#08

Tgt Ion:114 Resp: 1742616
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.3 0.0 31.0

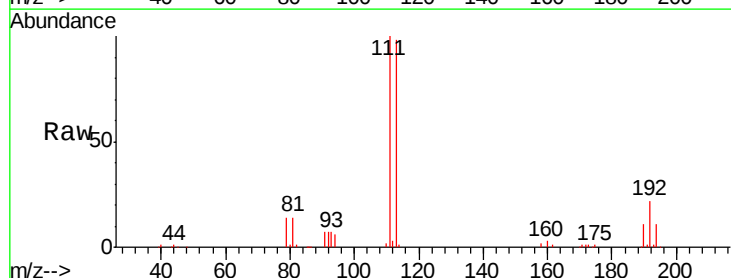


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

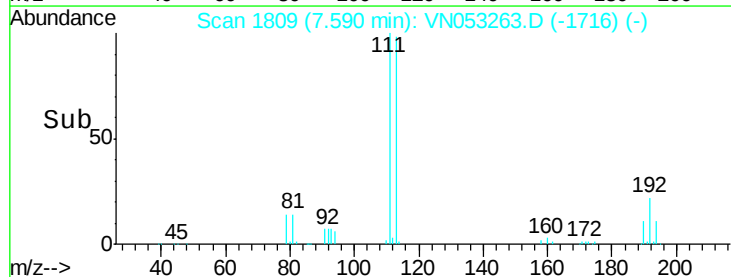
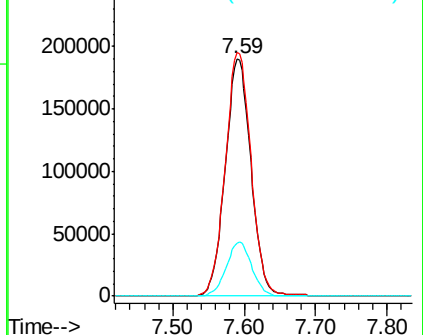


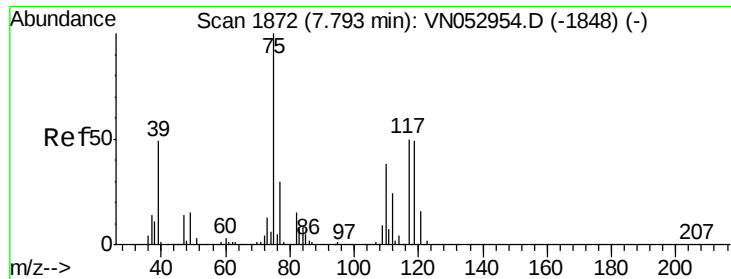
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053263.D
 Acq: 3 Jan 2019 15:37

Tgt Ion:113 Resp: 478352
 Ion Ratio Lower Upper
 113 100
 111 102.1 83.0 124.4
 192 22.5 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

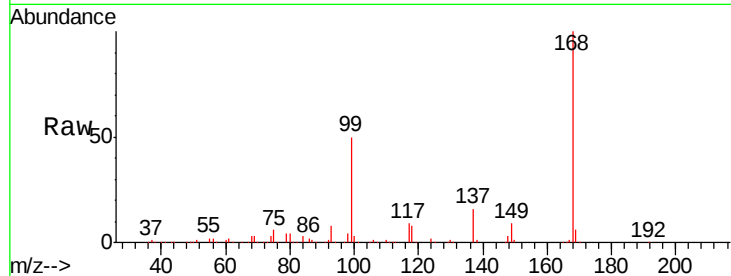




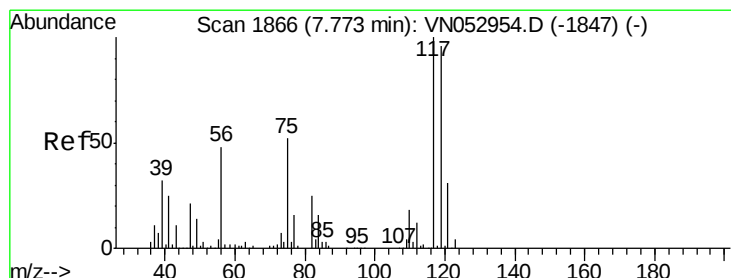
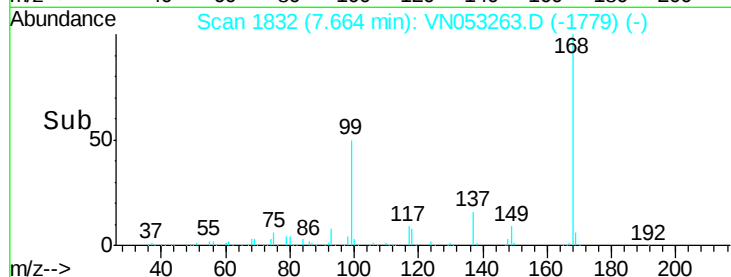
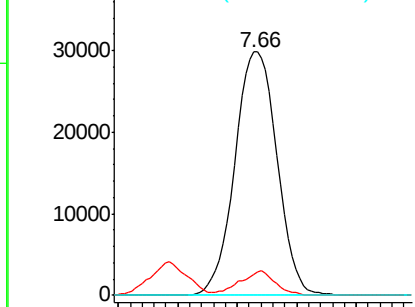
#36
 1,1-Dichloropropene
 Concen: 4.381 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053263.D
 Acq: 3 Jan 2019 15:37

Instrument :
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 PB116111ZHE#08

Tgt Ion: 75 Resp: 73283
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.2 54.6#
 77 0.0 24.9 37.3#

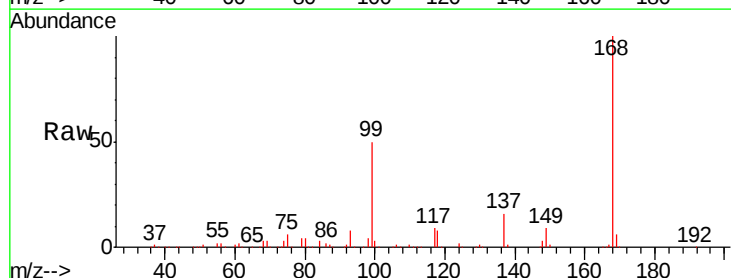


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

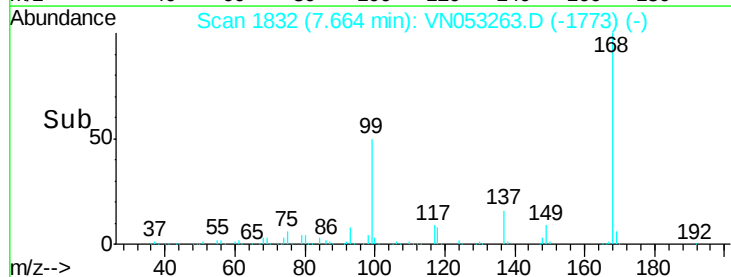
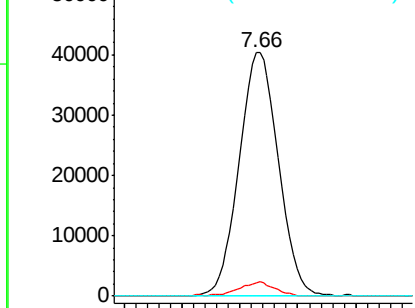


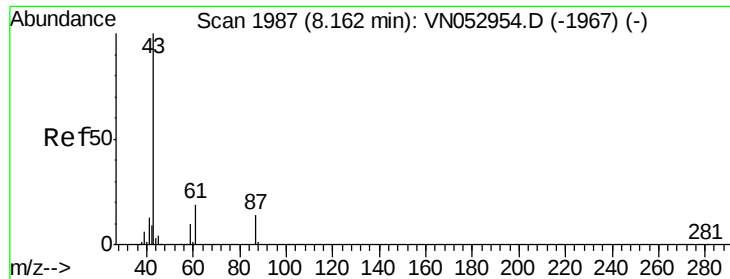
#38
 Carbon Tetrachloride
 Concen: 6.216 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN053263.D
 Acq: 3 Jan 2019 15:37

Tgt Ion: 117 Resp: 95300
 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

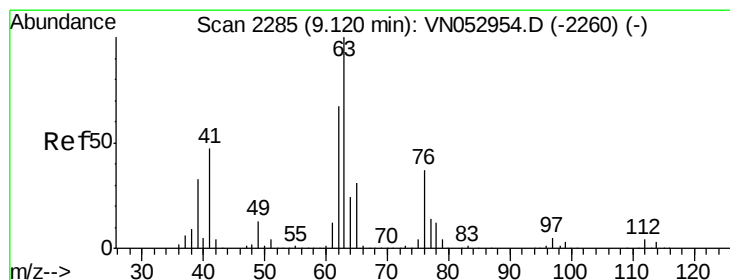
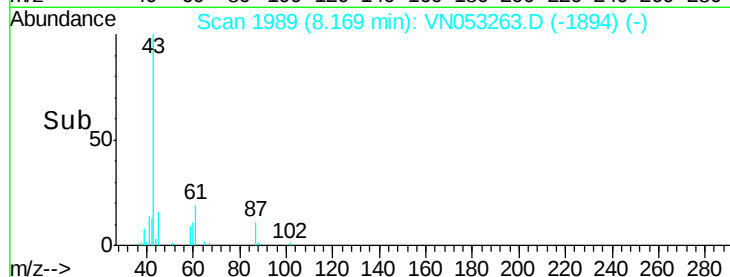
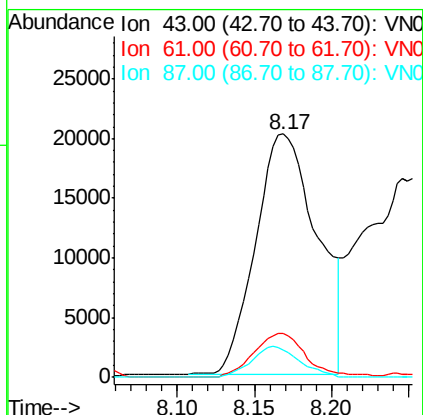
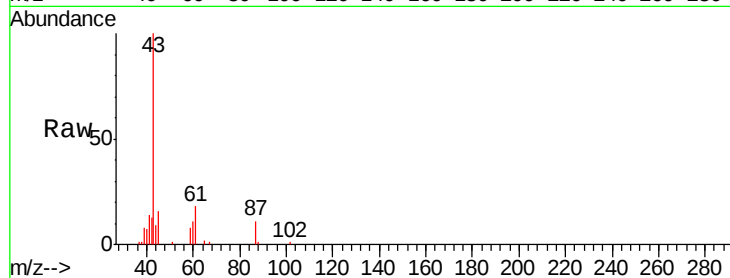




#43
Isopropyl Acetate
Concen: 2.088 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

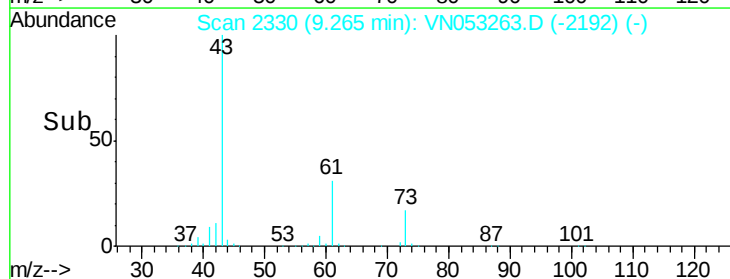
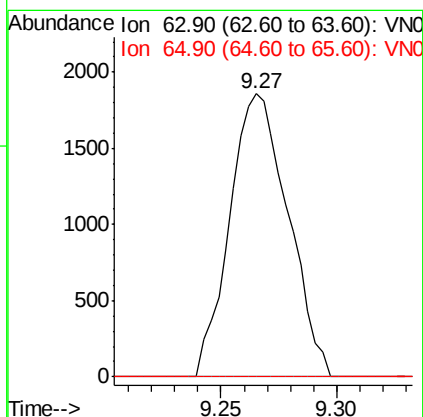
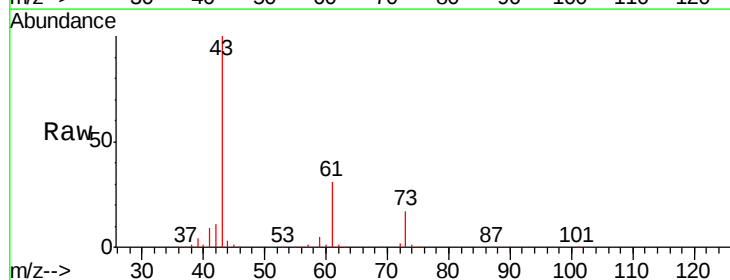
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

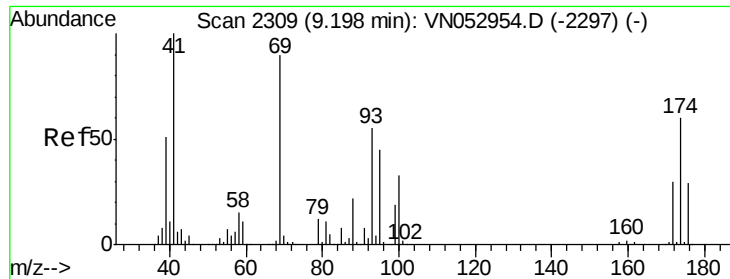
Tgt Ion: 43 Resp: 55822
Ion Ratio Lower Upper
43 100
61 15.6 22.9 34.3#
87 10.0 10.6 15.8#



#45
1,2-Dichloropropane
Concen: 0.250 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.14 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion: 63 Resp: 3241
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#

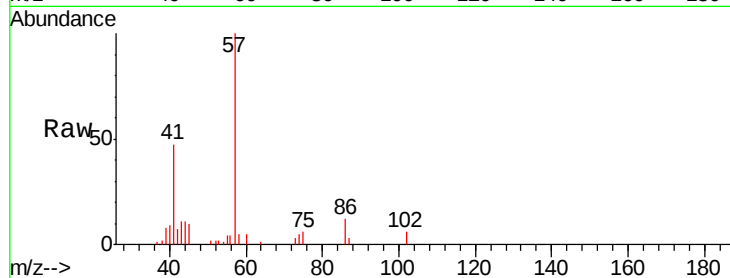




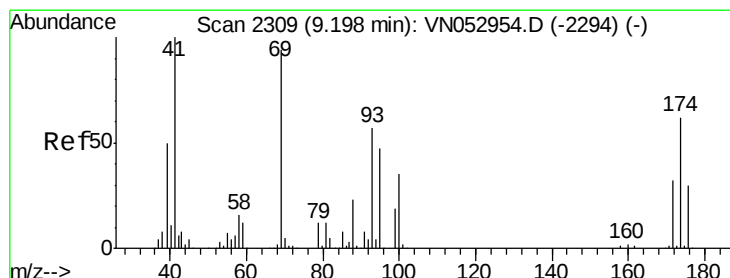
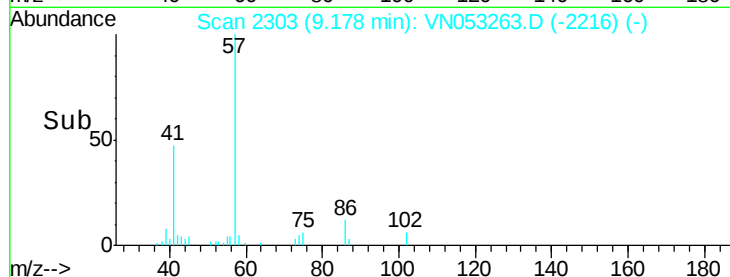
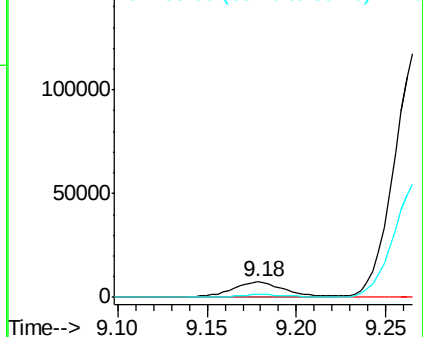
#48
Methyl methacrylate
Concen: 1.564 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

Tgt Ion: 41 Resp: 14175
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#

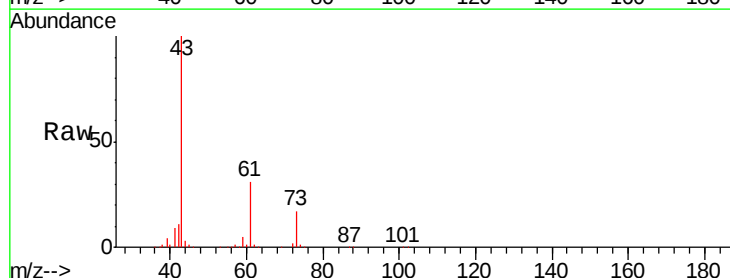


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

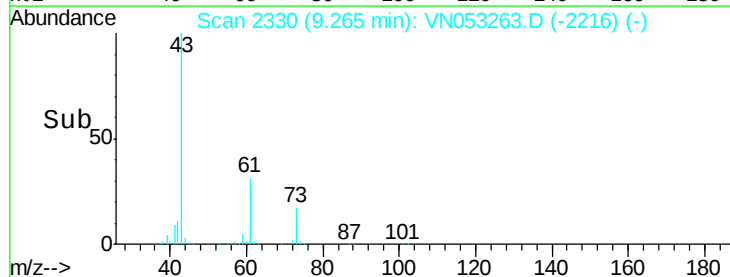
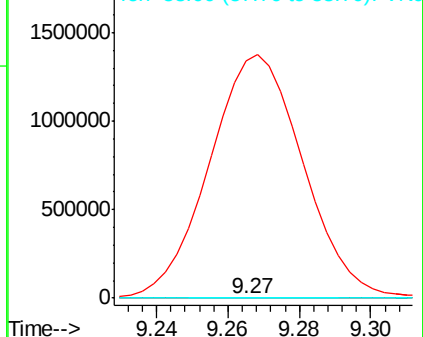


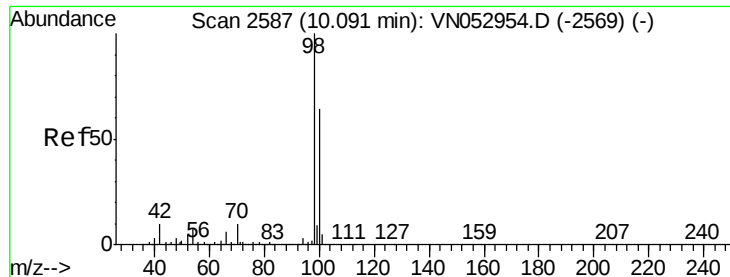
#49
1,4-Dioxane
Concen: 3.577 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion: 88 Resp: 410
Ion Ratio Lower Upper
88 100
43 615110.7 26.6 40.0#
58 2579.8 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 3.577 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

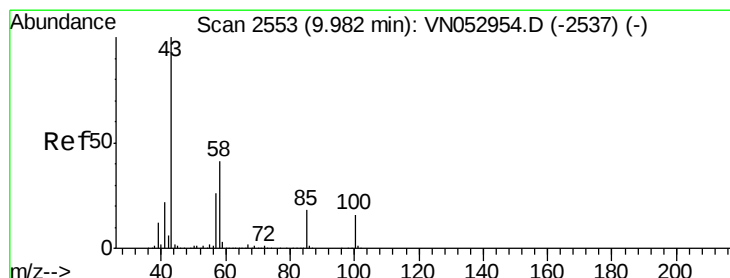
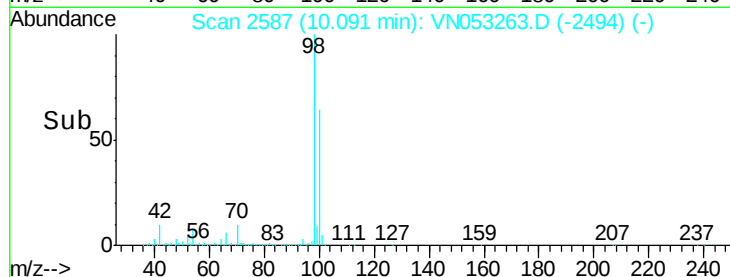
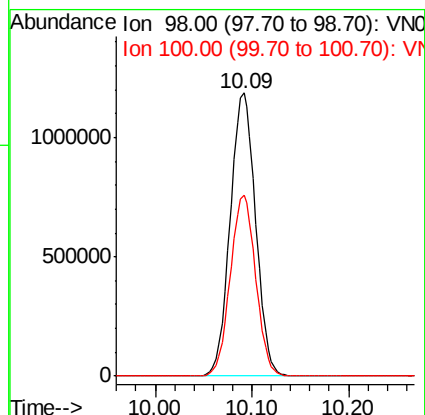
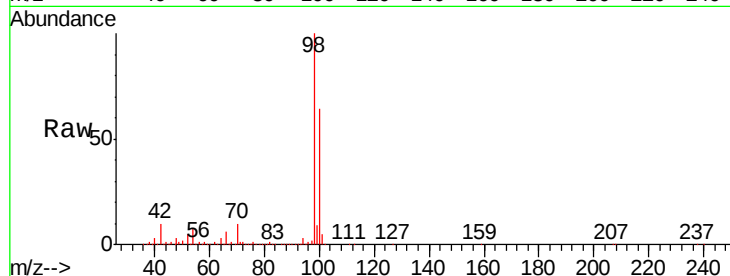
PB116111ZHE#08

Tgt Ion: 98 Resp: 2165664

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 2.077 ug/l

RT: 10.02 min Scan# 2565

Delta R.T. 0.04 min

Lab File: VN053263.D

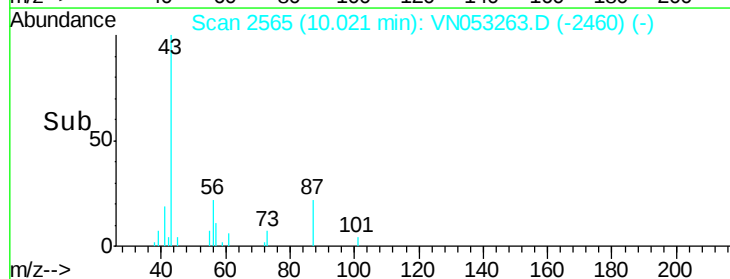
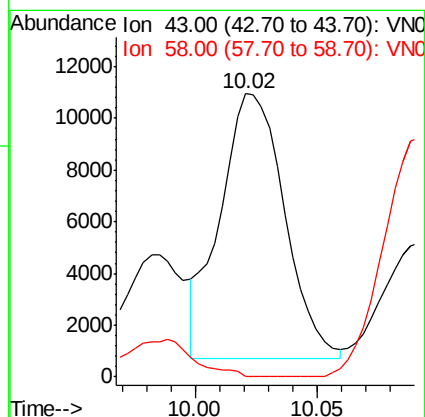
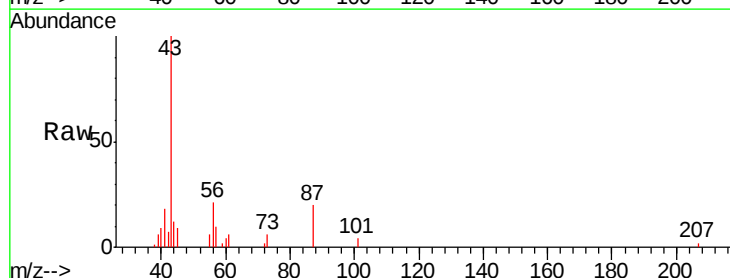
Acq: 3 Jan 2019 15:37

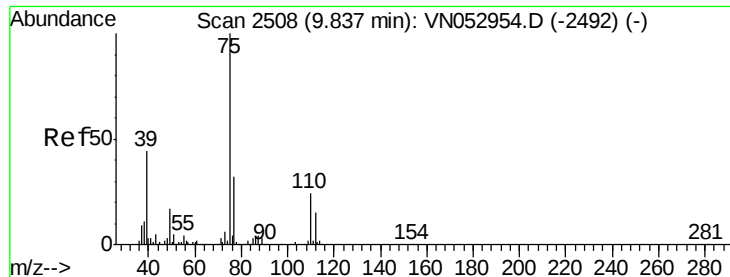
Tgt Ion: 43 Resp: 18779

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 6.272 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#08

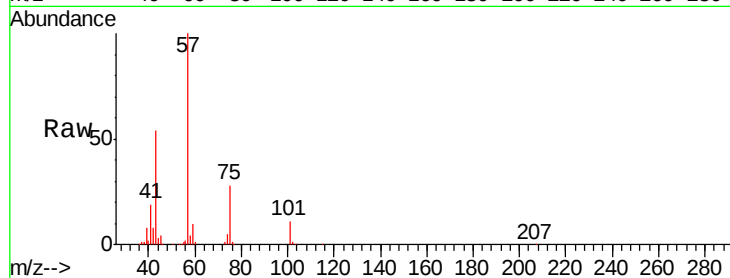
Tgt Ion: 75 Resp: 121478

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.8#

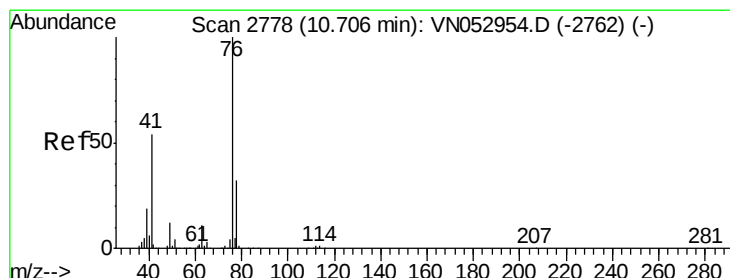
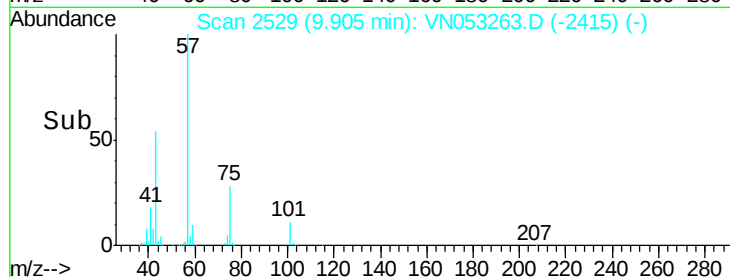
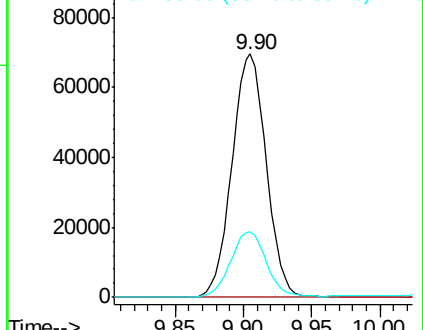
39 26.8 34.8 52.2#



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: 1.340 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053263.D

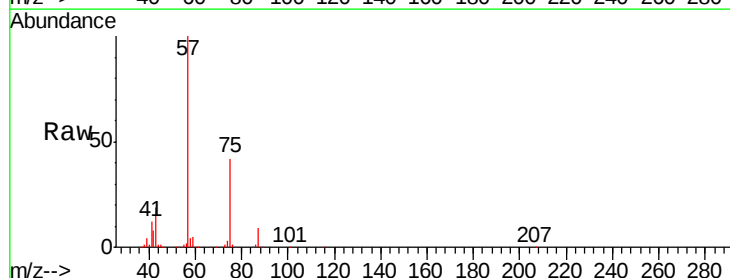
Acq: 3 Jan 2019 15:37

Tgt Ion: 76 Resp: 24712

Ion Ratio Lower Upper

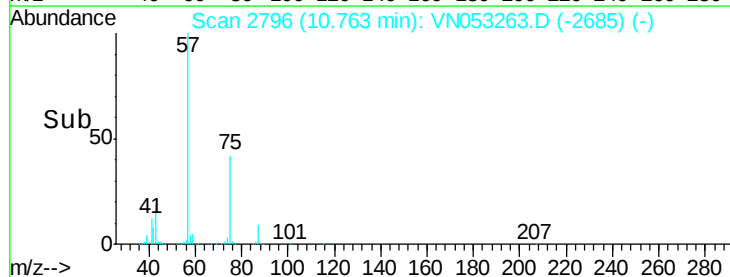
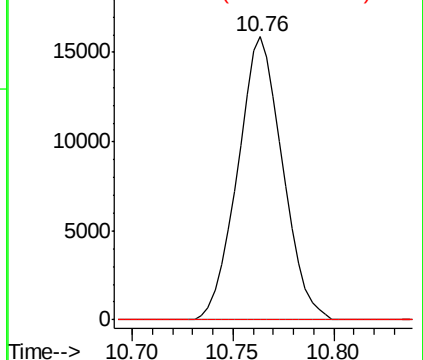
76 100

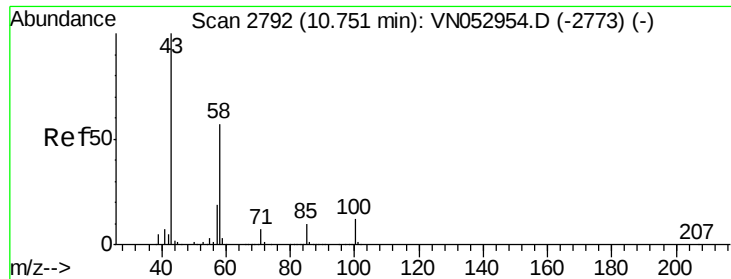
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

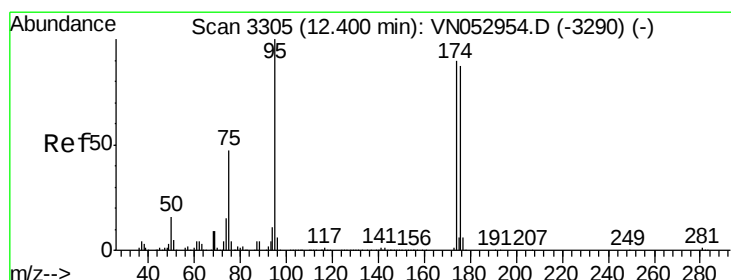
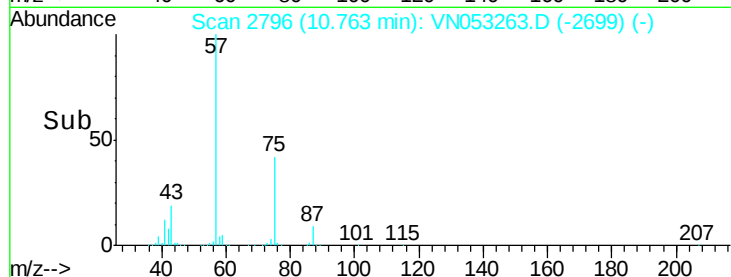
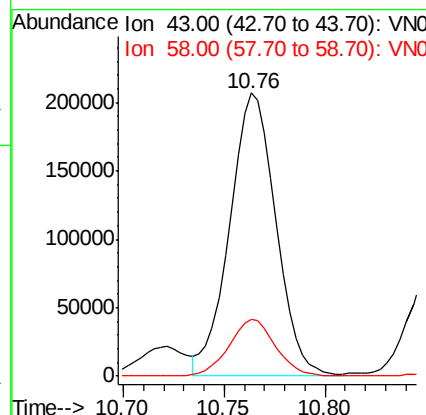
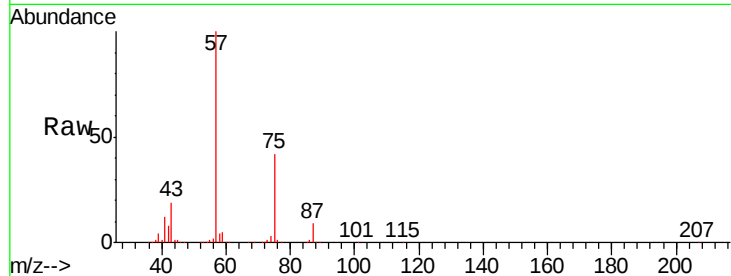




#59
2-Hexanone
Concen: 53.998 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

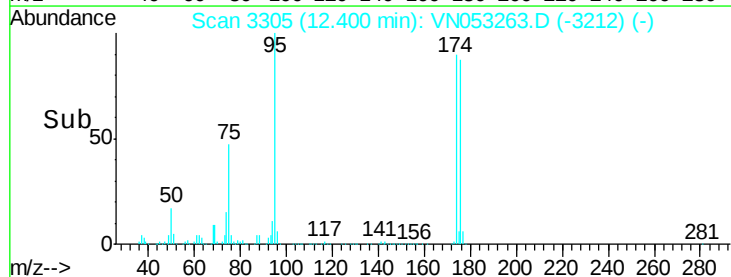
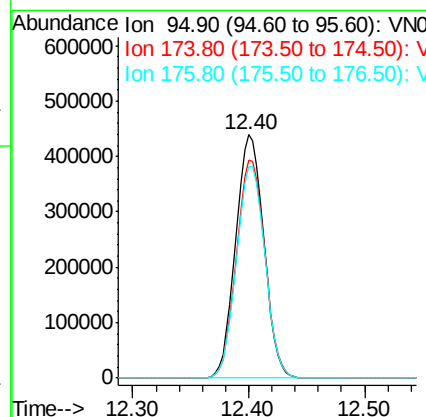
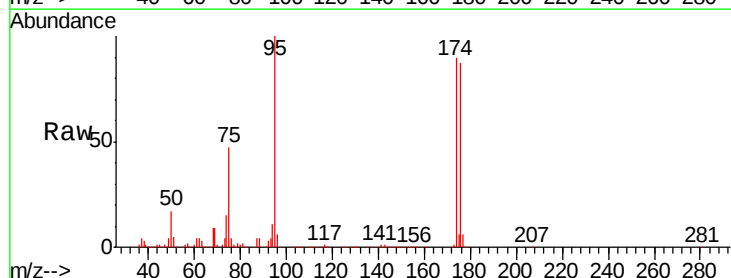
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

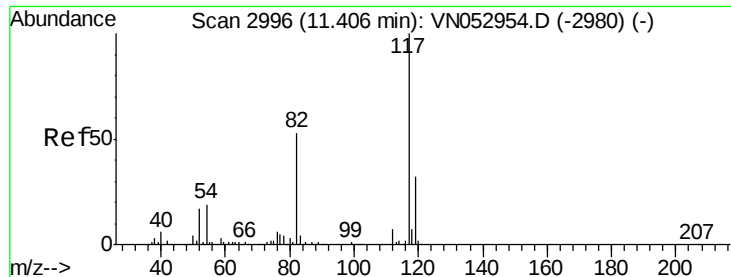
Tgt Ion: 43 Resp: 330360
Ion Ratio Lower Upper
43 100
58 20.2 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion: 95 Resp: 734730
Ion Ratio Lower Upper
95 100
174 90.7 0.0 178.8
176 88.3 0.0 173.8

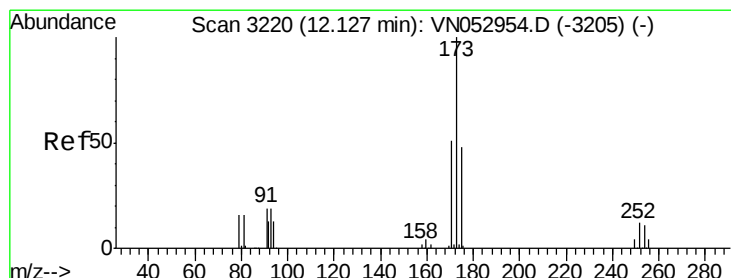
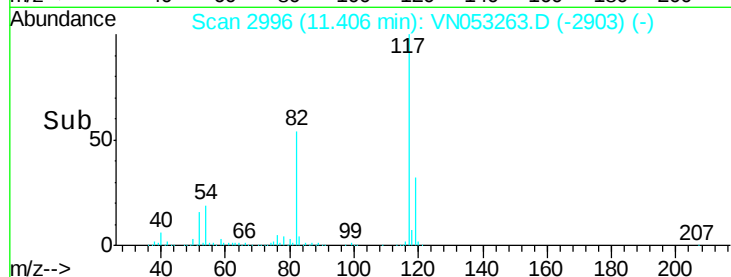
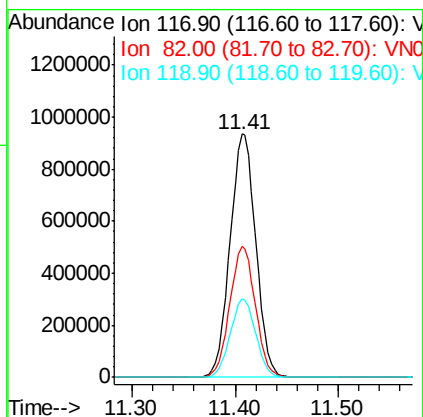
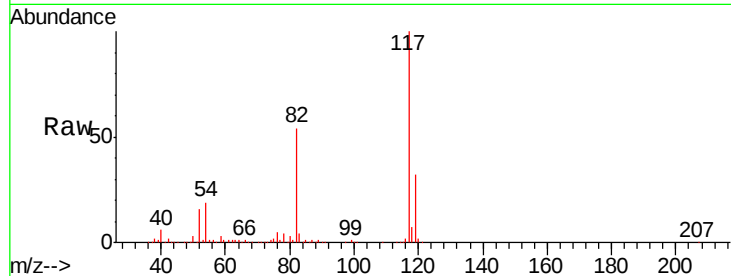




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

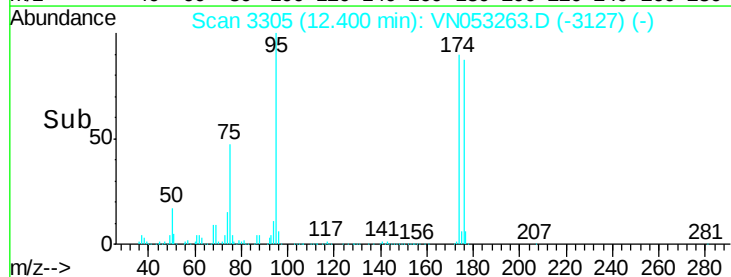
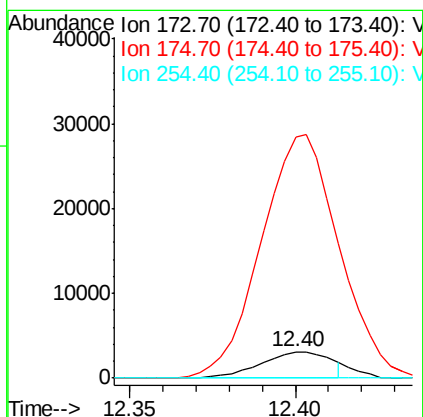
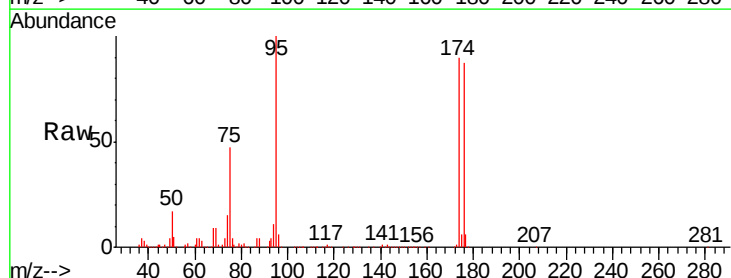
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#08

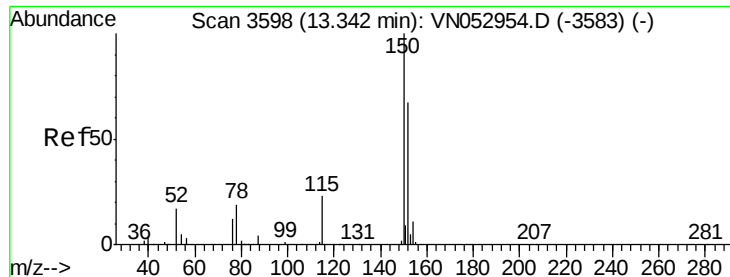
Tgt Ion:117 Resp: 1625569
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 32.0 25.5 38.3



#71
Bromoform
Concen: 0.499 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053263.D
Acq: 3 Jan 2019 15:37

Tgt Ion:173 Resp: 4518
Ion Ratio Lower Upper
173 100
175 913.6 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#08

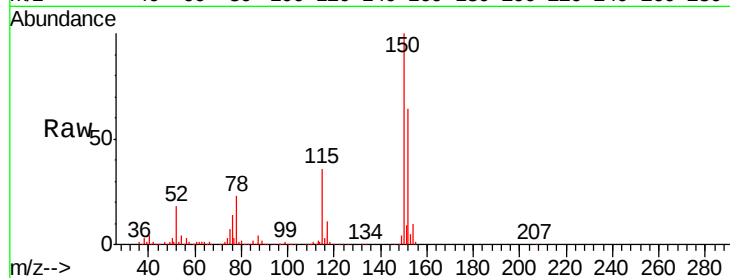
Tgt Ion:152 Resp: 667539

Ion Ratio Lower Upper

152 100

115 55.7 28.3 85.0

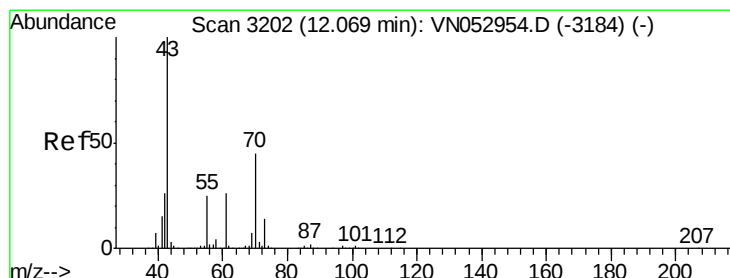
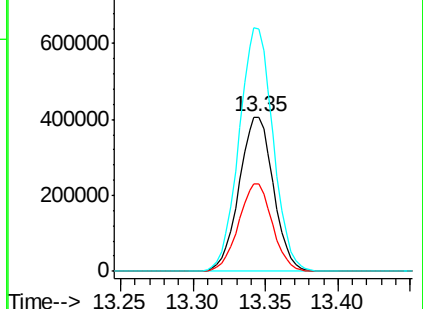
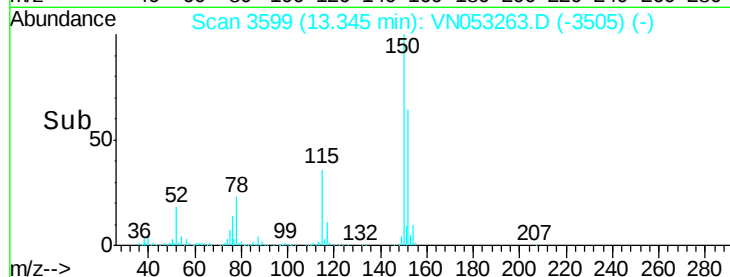
150 156.4 0.0 347.8



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: 2.792 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Tgt Ion: 43 Resp: 40484

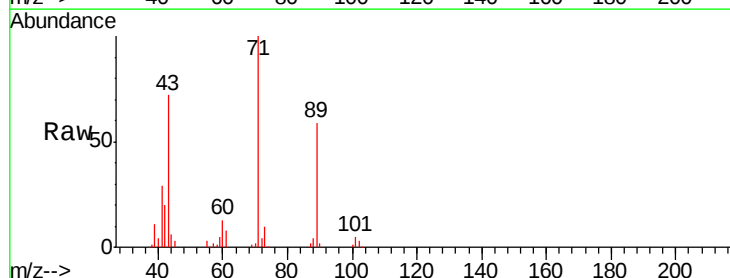
Ion Ratio Lower Upper

43 100

70 2.2 34.2 51.4#

55 4.2 20.3 30.5#

61 11.1 20.0 30.0#

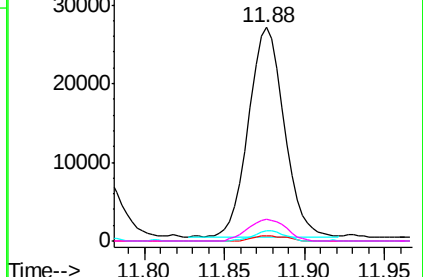
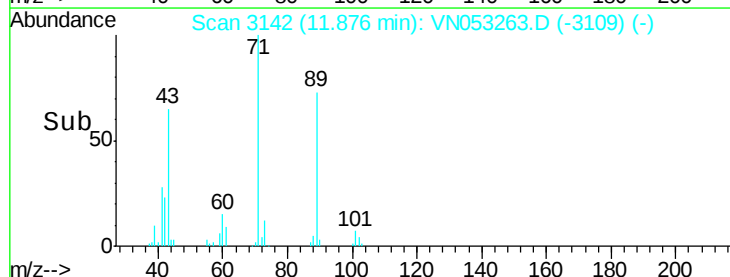


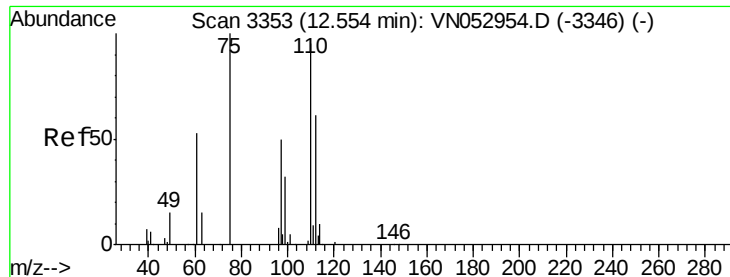
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.887 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

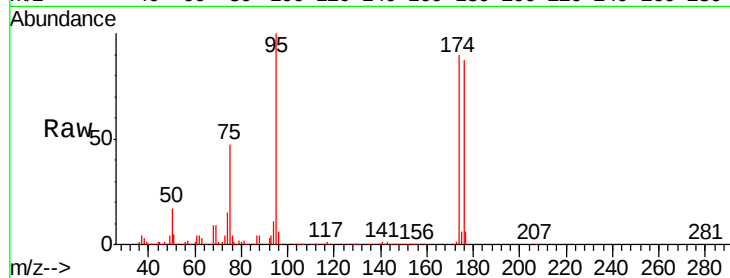
PB116111ZHE#08

Tgt Ion: 75 Resp: 347083

Ion Ratio Lower Upper

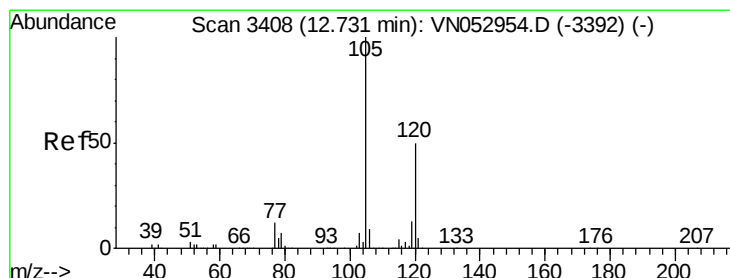
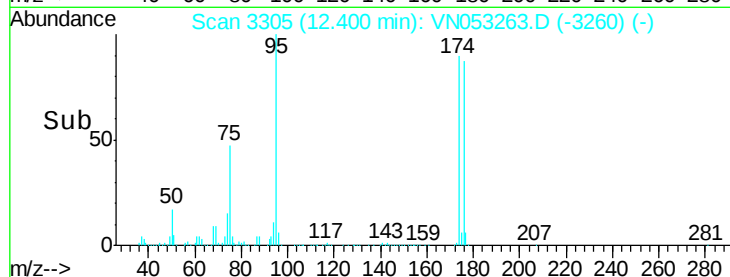
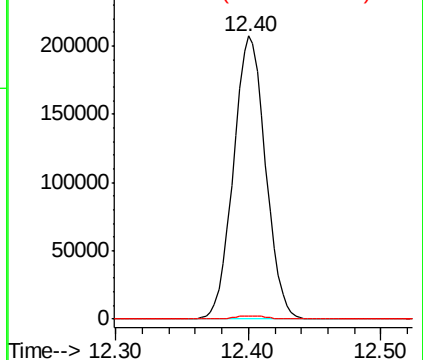
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053263.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN053263.D (-3260) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.510 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053263.D

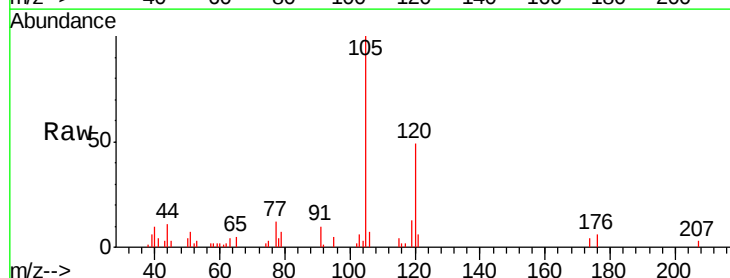
Acq: 3 Jan 2019 15:37

Tgt Ion: 105 Resp: 21731

Ion Ratio Lower Upper

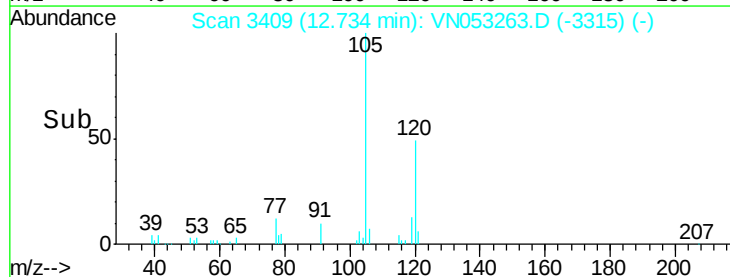
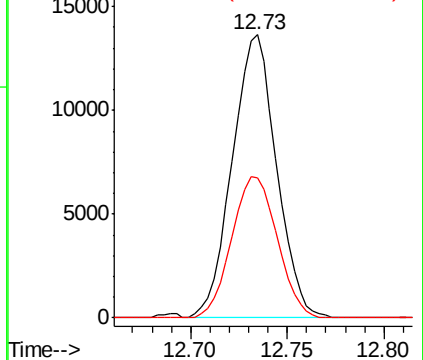
105 100

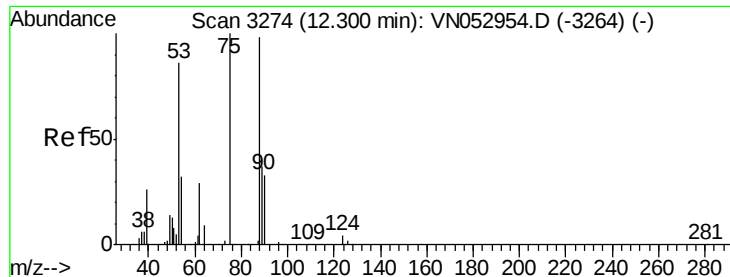
120 51.4 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN053263.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053263.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 99.551 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#08

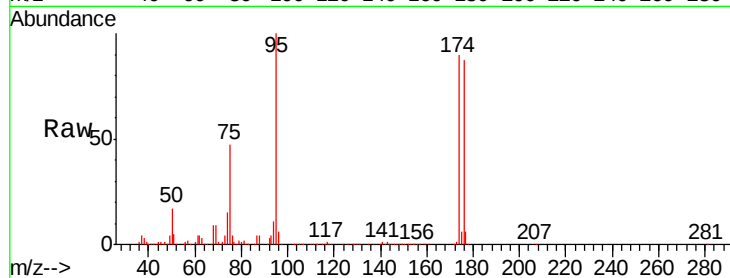
Tgt Ion: 75 Resp: 347083

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

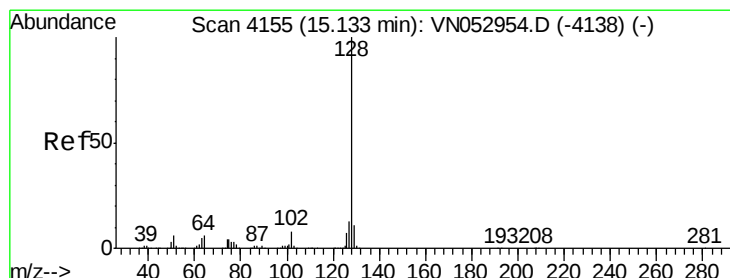
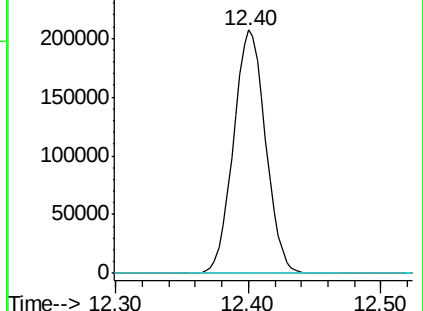
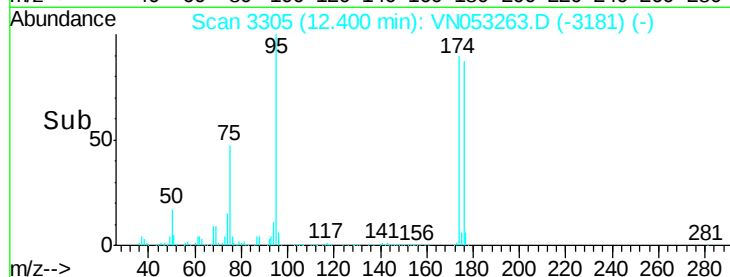
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN053263.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053263.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053263.D (-3181) (-)



#95

Naphthalene

Concen: 1.157 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN053263.D

Acq: 3 Jan 2019 15:37

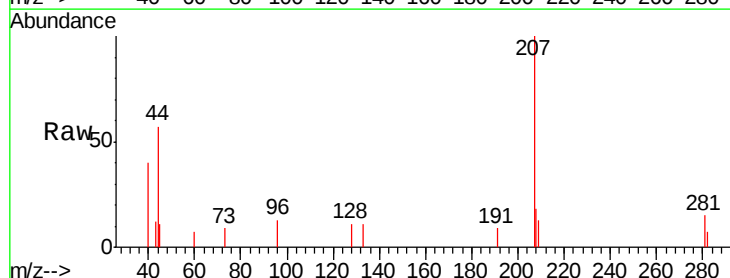
Tgt Ion: 128 Resp: 275

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): VN053263.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN053263.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN053263.D (-4062) (-)

