

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN010319\
 Data File : VN053264.D
 Acq On : 3 Jan 2019 16:04
 Operator : MD\SY
 Sample : PB116111ZHE#09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116111ZHE#09

Quant Time: Jan 04 00:55:08 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

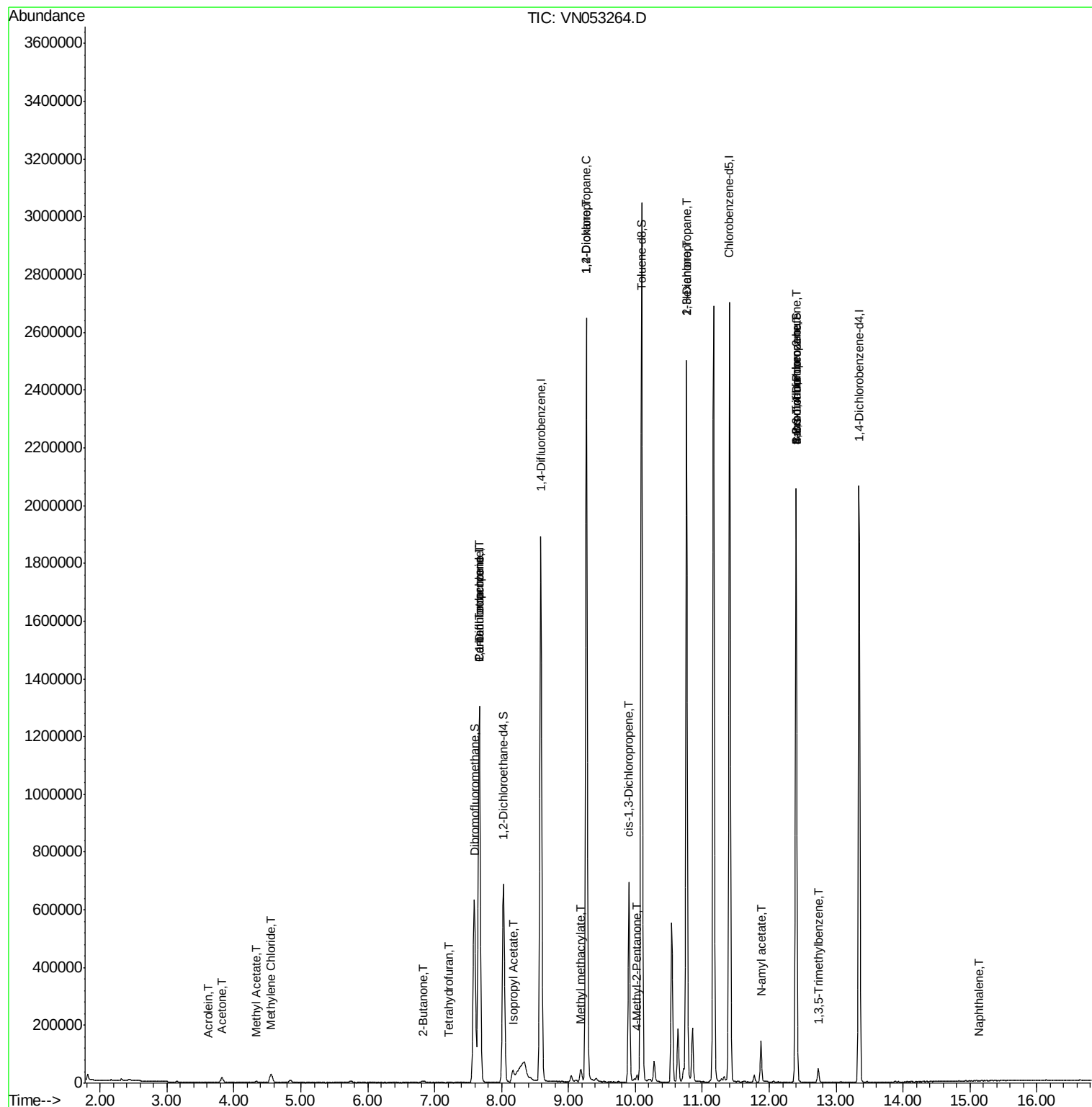
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1152017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1783383	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1625092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	590187	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	567390	48.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.06%	
35) Dibromofluoromethane	7.59	113	482938	59.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.56%	
50) Toluene-d8	10.09	98	2198730	50.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	706425	46.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.02%	
Target Compounds						
					Qvalue	
13) Acrolein	3.61	56	170	0.263	ug/l #	14
16) Acetone	3.82	43	30011	13.093	ug/l	92
18) Methyl Acetate	4.33	43	7752	1.722	ug/l #	89
20) Methylene Chloride	4.56	84	21866	1.749	ug/l	97
25) 2-Butanone	6.84	43	2061	0.536	ug/l	99
29) Tetrahydrofuran	7.20	42	715	0.249	ug/l #	14
31) Cyclohexane	7.66	56	18772	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	74966	4.380	ug/l #	49
38) Carbon Tetrachloride	7.67	117	98423	6.273	ug/l #	16
43) Isopropyl Acetate	8.17	43	56646	2.062	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	3523	0.266	ug/l #	44
48) Methyl methacrylate	9.18	41	14419	1.555	ug/l #	12
49) 1,4-Dioxane	9.26	88	29	0.247	ug/l #	22
51) 4-Methyl-2-Pentanone	10.02	43	19532	2.111	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	133526	6.736	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	26546	1.406	ug/l #	42
59) 2-Hexanone	10.76	43	346372	55.321	ug/l #	51
71) Bromoform	12.40	173	4446	0.491	ug/l #	1
74) N-amyl acetate	11.88	43	42799	3.338	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	328187	33.033	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	24240	0.644	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	328187	106.469	ug/l #	12
95) Naphthalene	15.13	128	154	1.153	ug/l #	69

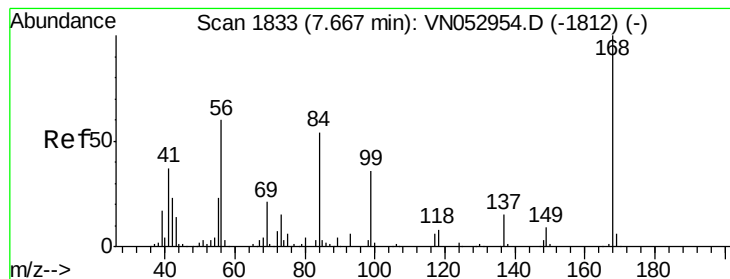
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

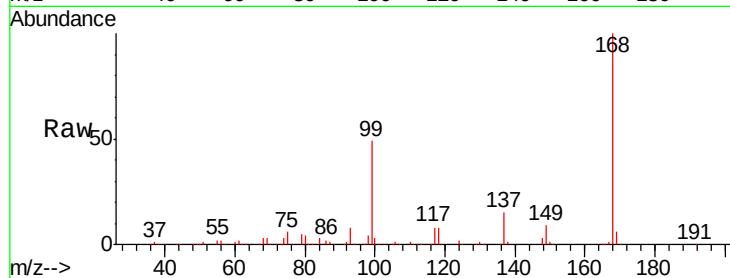
PB116111ZHE#09

Tgt Ion:168 Resp: 1152017

Ion Ratio Lower Upper

168 100

99 48.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

500000

400000

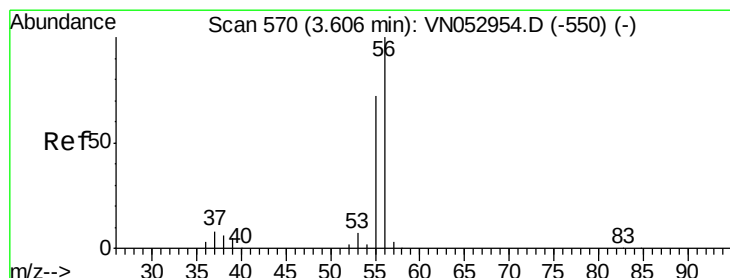
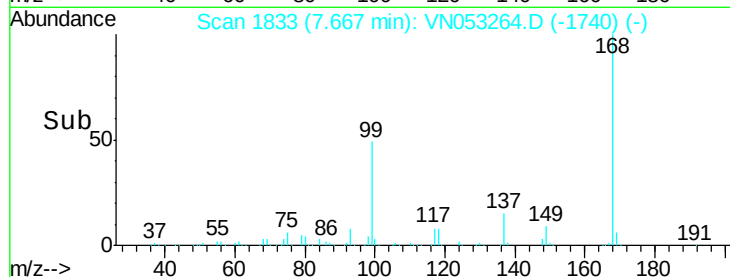
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.263 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN053264.D

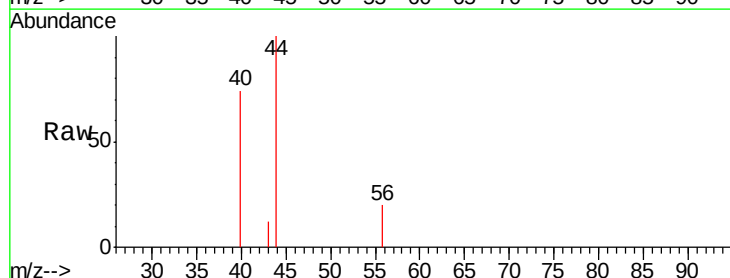
Acq: 3 Jan 2019 16:04

Tgt Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.61

300

250

200

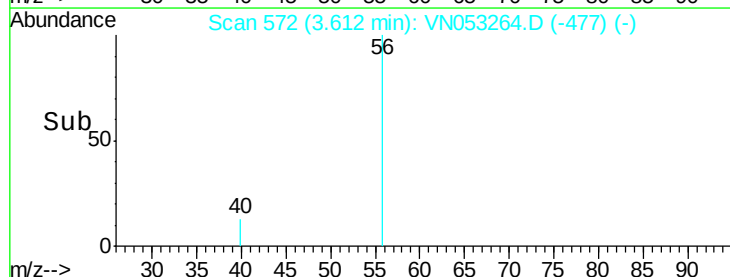
150

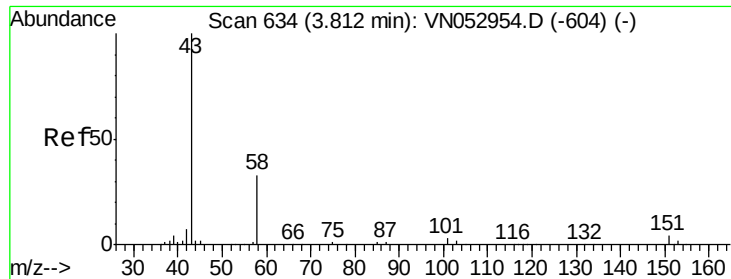
100

50

0

Time-->





#16

Acetone

Concen: 13.093 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

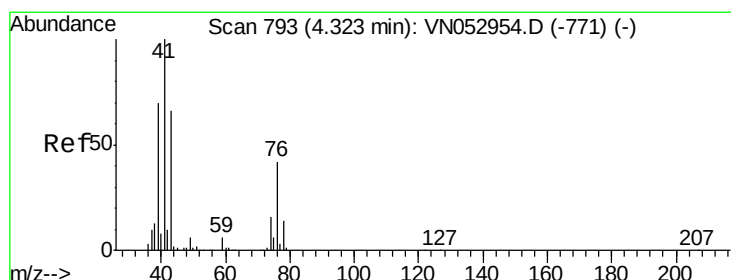
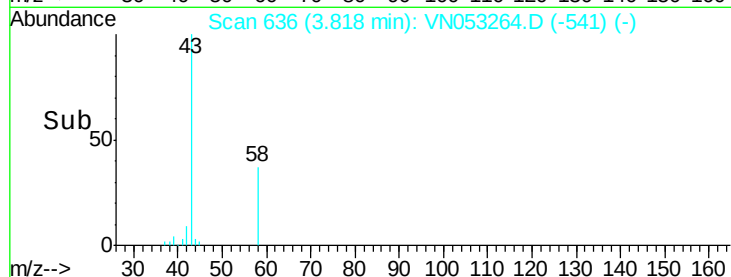
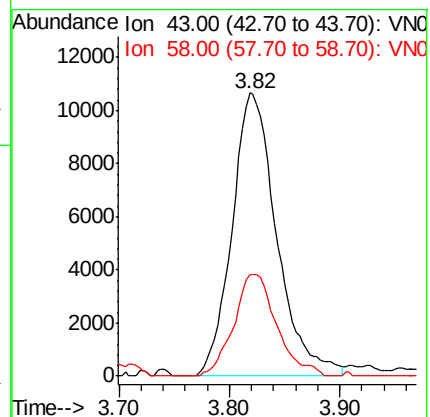
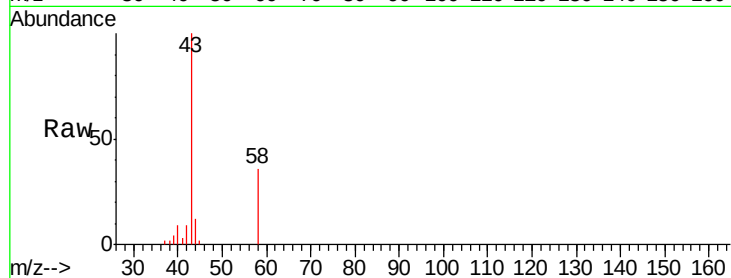
PB116111ZHE#09

Tgt Ion: 43 Resp: 30011

Ion Ratio Lower Upper

43 100

58 36.0 25.4 38.0



#18

Methyl Acetate

Concen: 1.722 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN053264.D

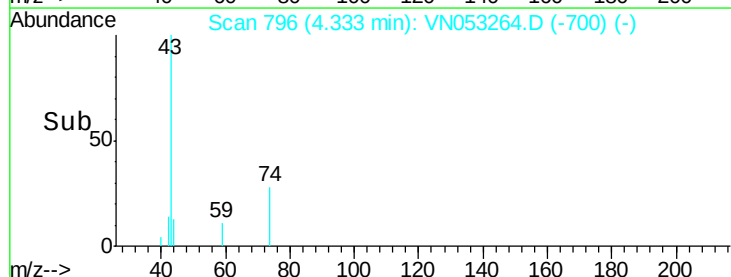
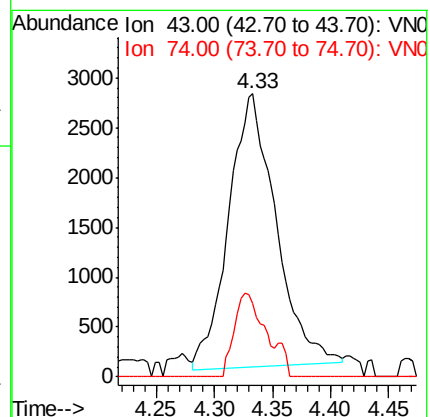
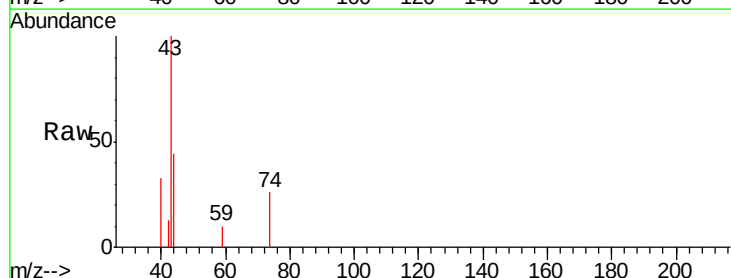
Acq: 3 Jan 2019 16:04

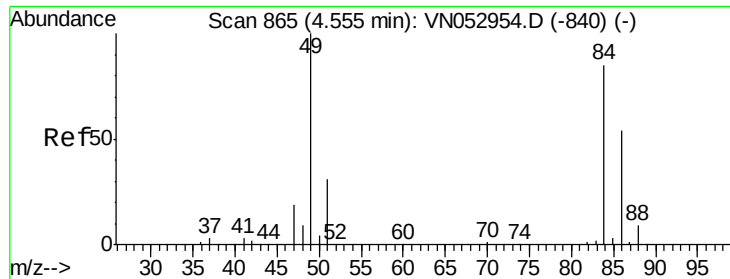
Tgt Ion: 43 Resp: 7752

Ion Ratio Lower Upper

43 100

74 18.5 19.2 28.8#

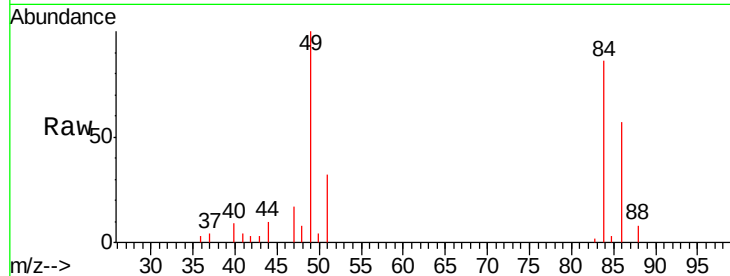




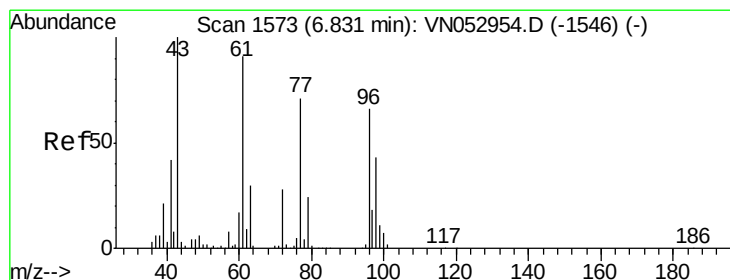
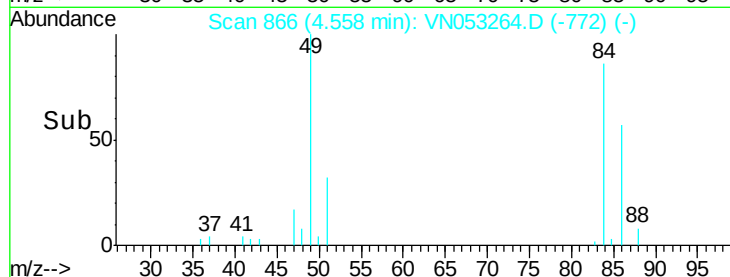
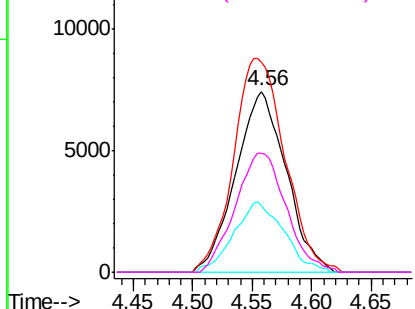
#20
Methylene Chloride
Concen: 1.749 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#09

Tgt Ion: 84 Resp: 21866
Ion Ratio Lower Upper
84 100
49 115.8 96.8 145.2
51 36.7 29.9 44.9
86 66.0 51.8 77.6

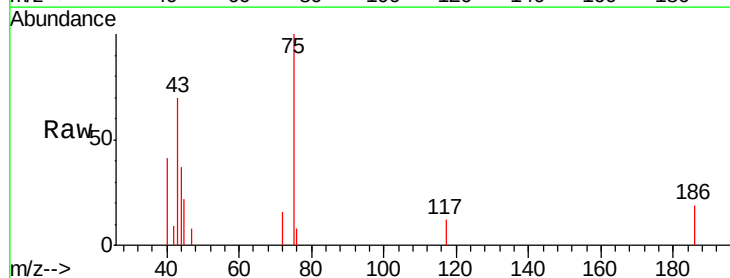


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

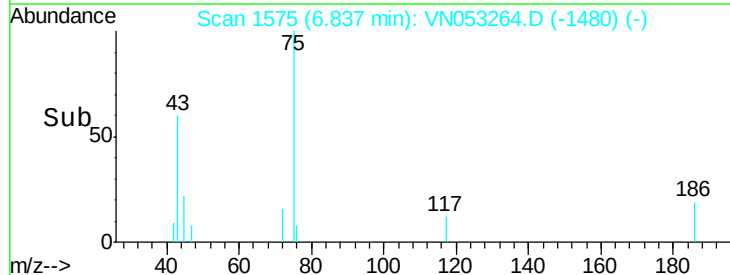
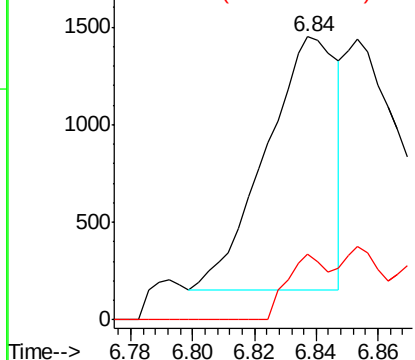


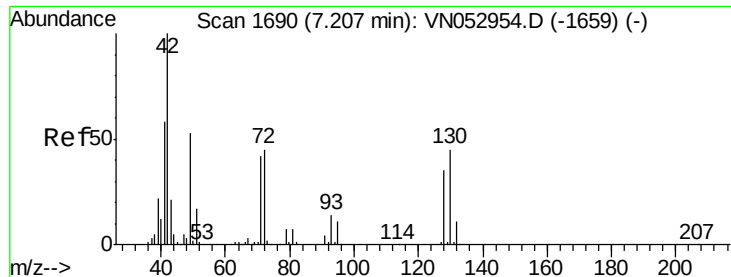
#25
2-Butanone
Concen: 0.536 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Tgt Ion: 43 Resp: 2061
Ion Ratio Lower Upper
43 100
72 26.0 21.0 31.6



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

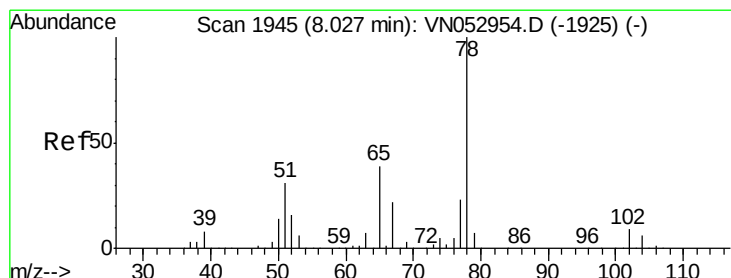
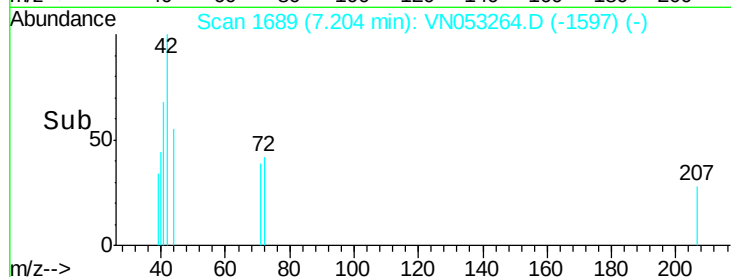
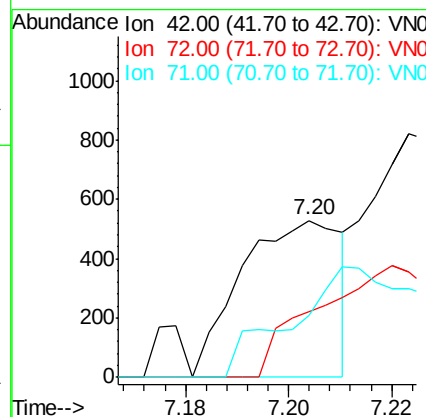
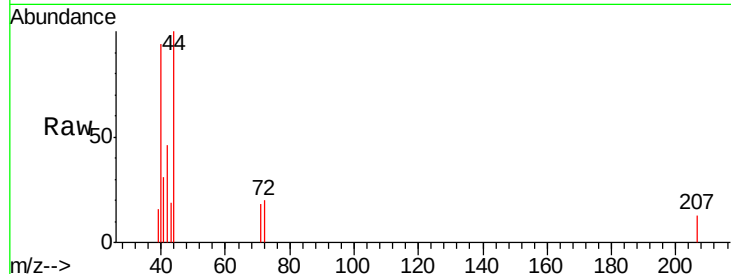




#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

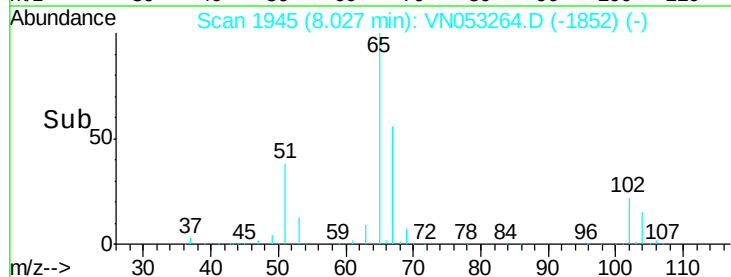
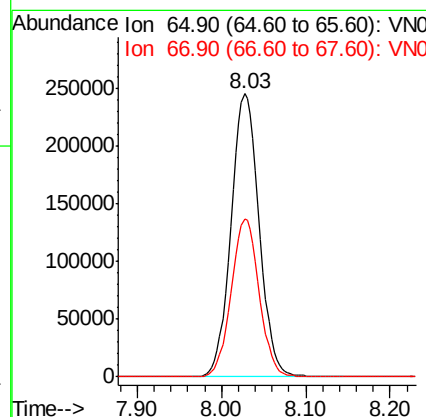
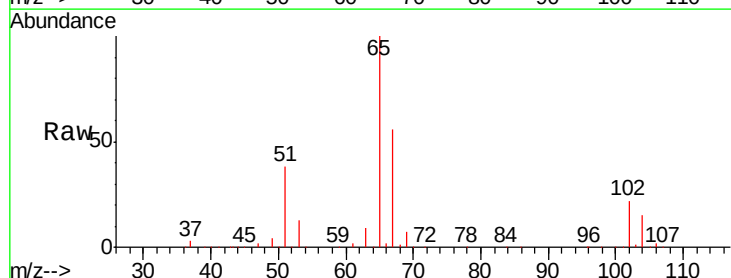
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#09

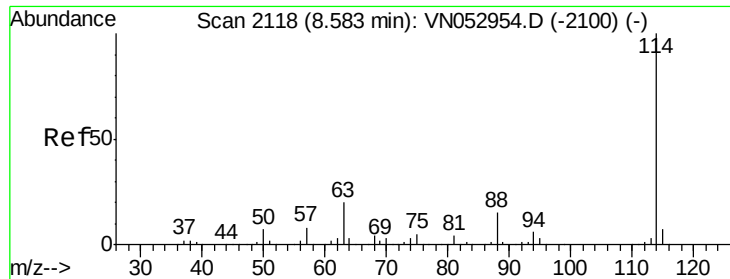
Tgt Ion: 42 Resp: 715
Ion Ratio Lower Upper
42 100
72 0.0 34.7 52.1#
71 106.7 32.3 48.5#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Tgt Ion: 65 Resp: 567390
Ion Ratio Lower Upper
65 100
67 55.5 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: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#09

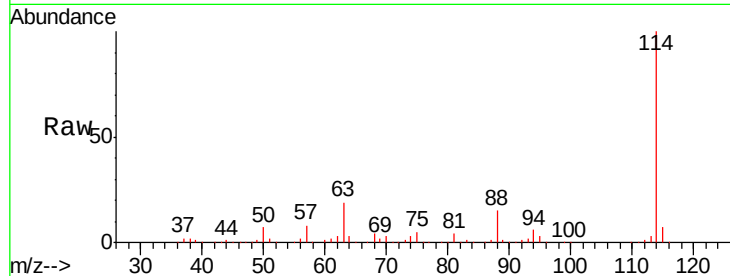
Tgt Ion:114 Resp: 1783383

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.8

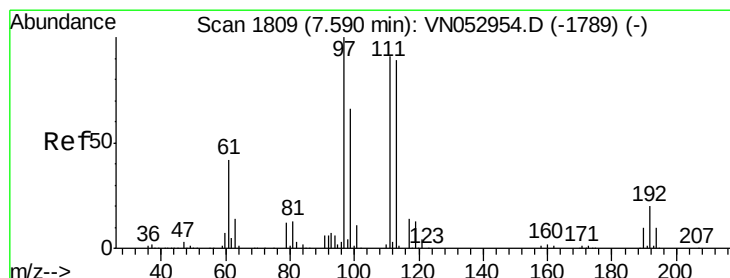
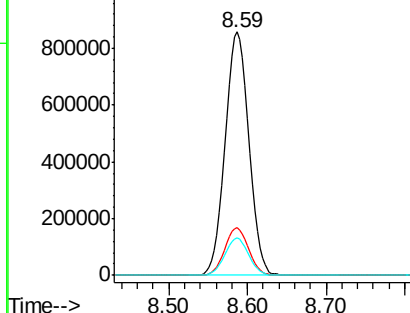
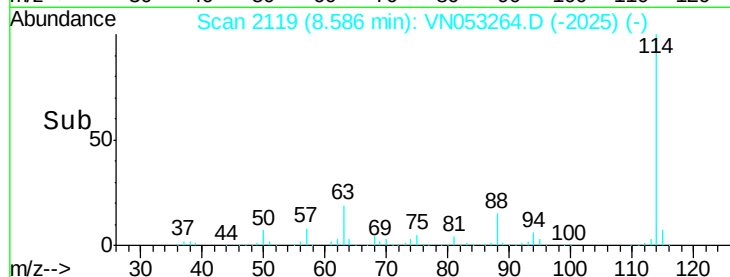
88 15.3 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

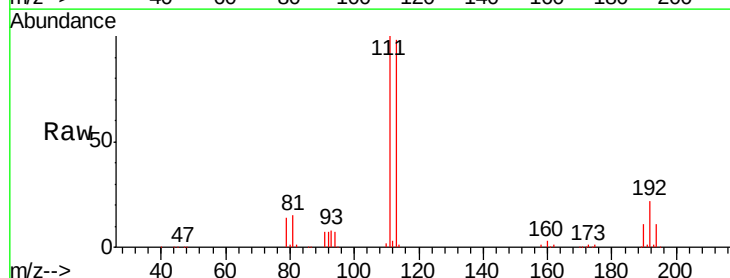
Tgt Ion:113 Resp: 482938

Ion Ratio Lower Upper

113 100

111 103.2 83.0 124.4

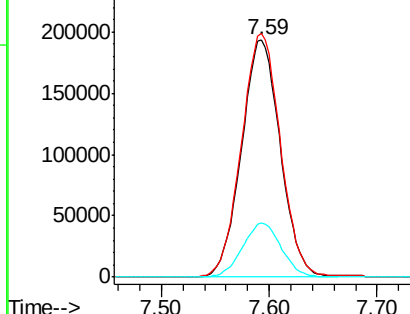
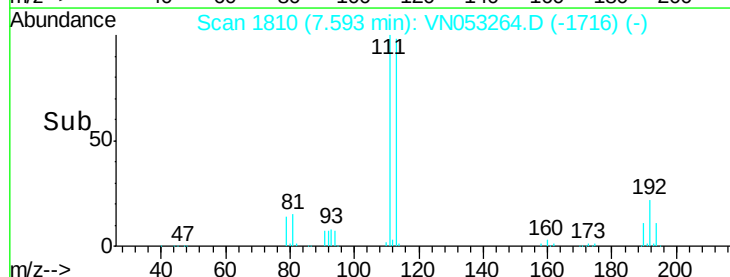
192 22.6 17.5 26.3

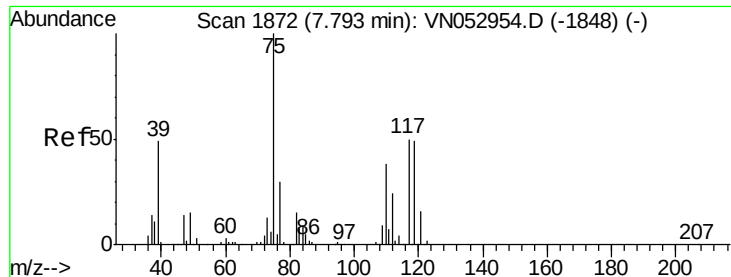


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

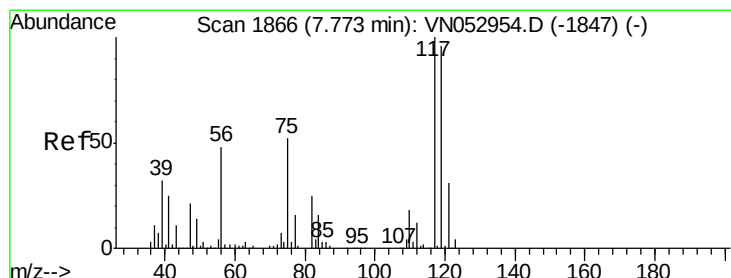
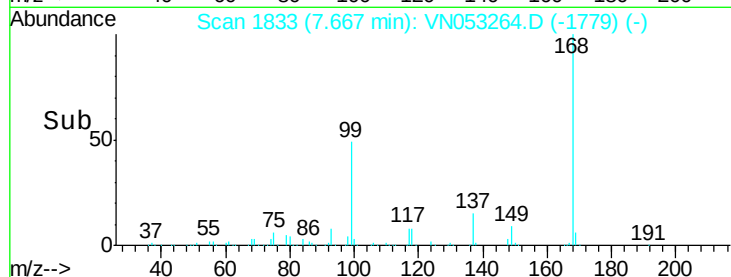
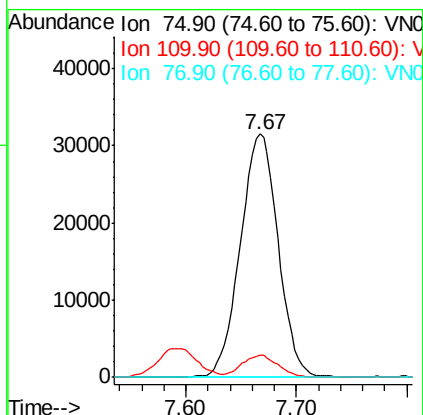
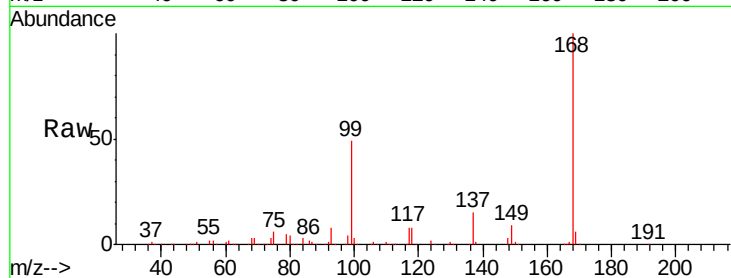




#36
 1,1-Dichloropropene
 Concen: 4.380 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053264.D
 Acq: 3 Jan 2019 16:04

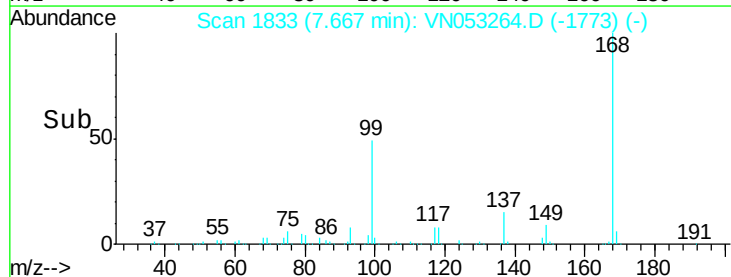
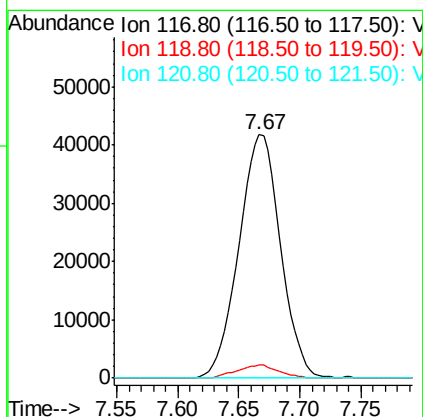
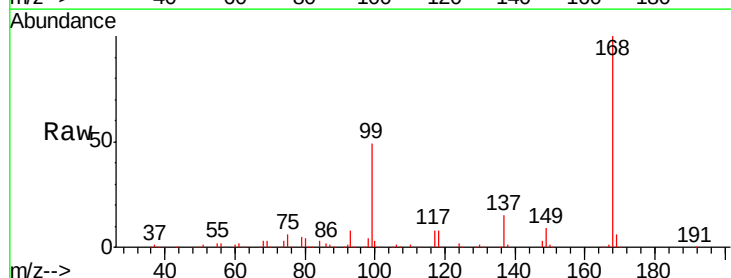
Instrument :
 MSVOA_N
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 PB116111ZHE#09

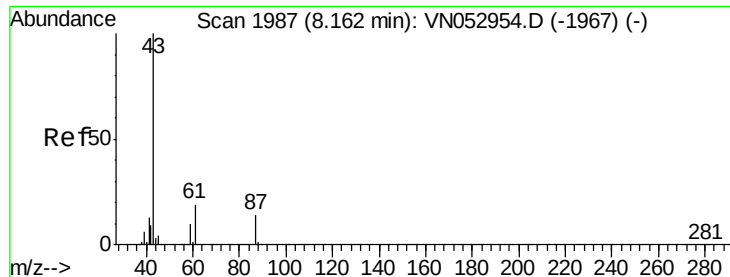
Tgt Ion: 75 Resp: 74966
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.2 54.6#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.273 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053264.D
 Acq: 3 Jan 2019 16:04

Tgt Ion: 117 Resp: 98423
 Ion Ratio Lower Upper
 117 100
 119 5.5 77.1 115.7#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 2.062 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#09

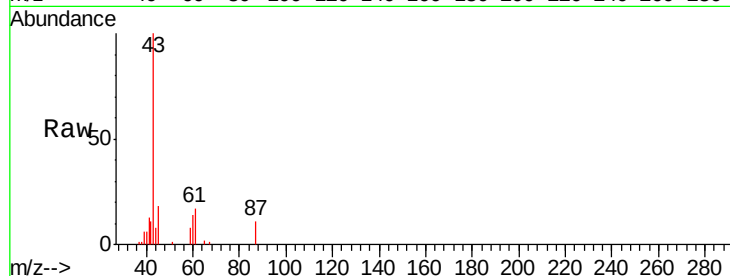
Tgt Ion: 43 Resp: 56646

Ion Ratio Lower Upper

43 100

61 17.3 22.9 34.3#

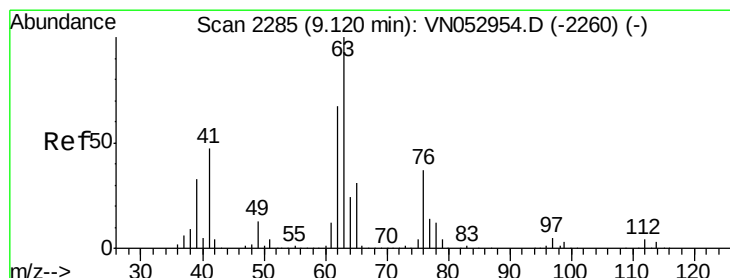
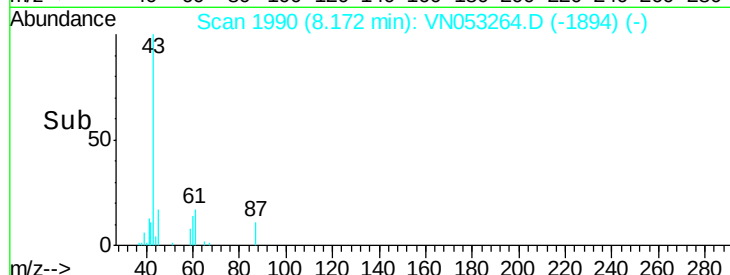
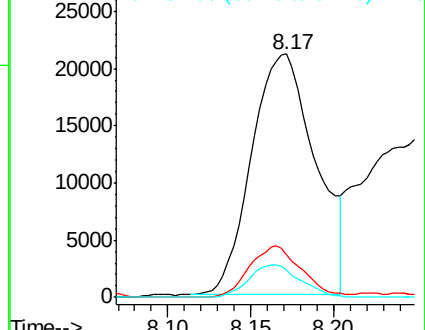
87 10.7 10.6 15.8



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: 0.266 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053264.D

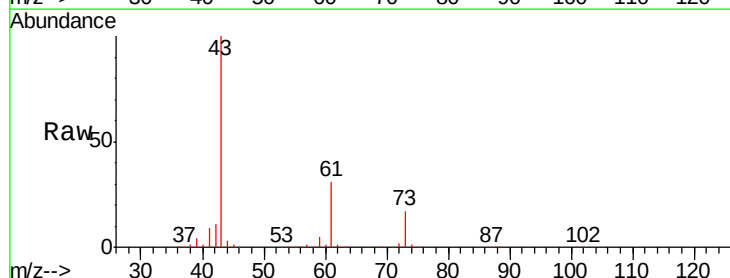
Acq: 3 Jan 2019 16:04

Tgt Ion: 63 Resp: 3523

Ion Ratio Lower Upper

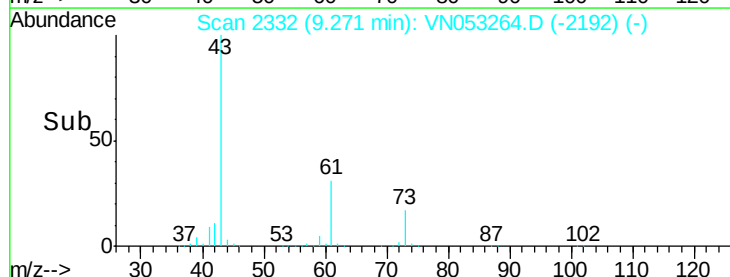
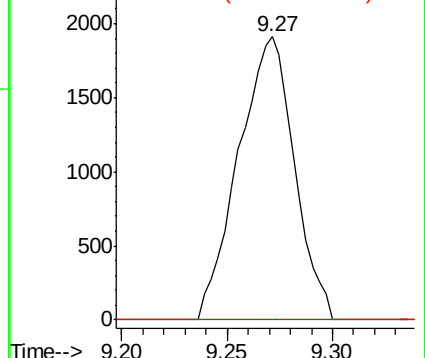
63 100

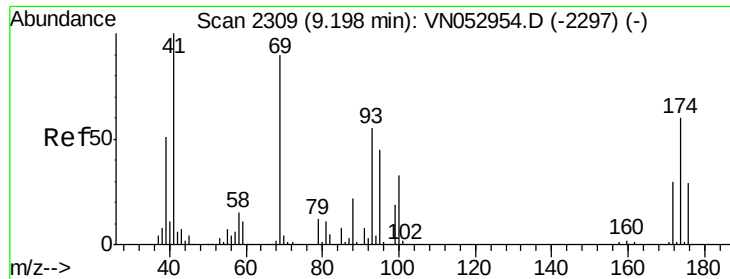
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

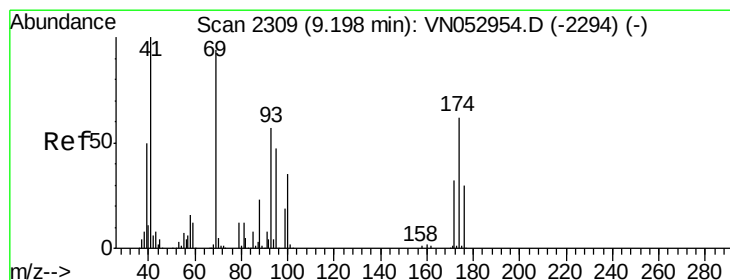
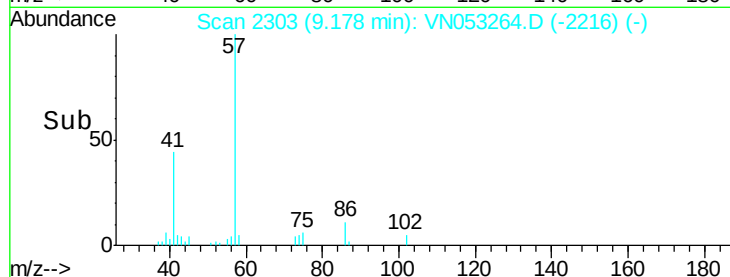
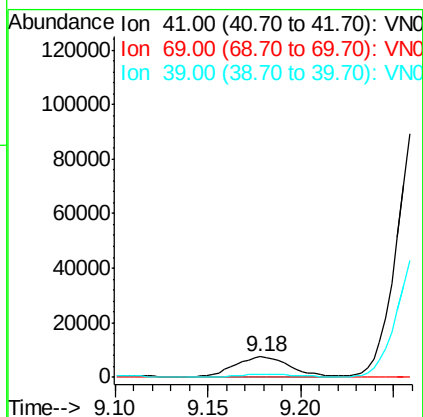
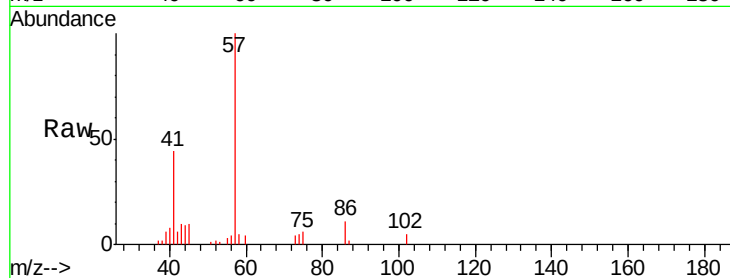




#48
Methyl methacrylate
Concen: 1.555 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

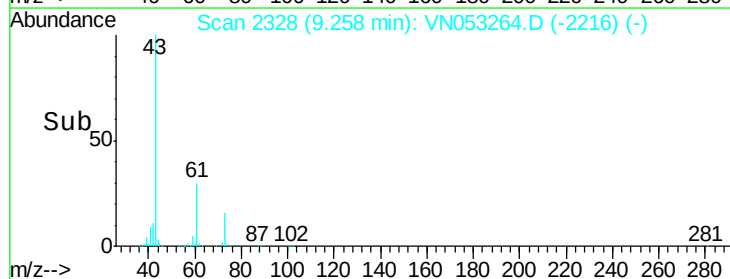
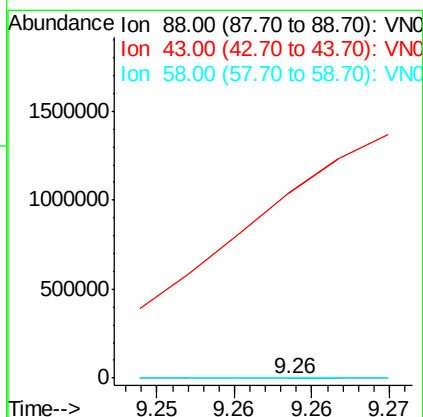
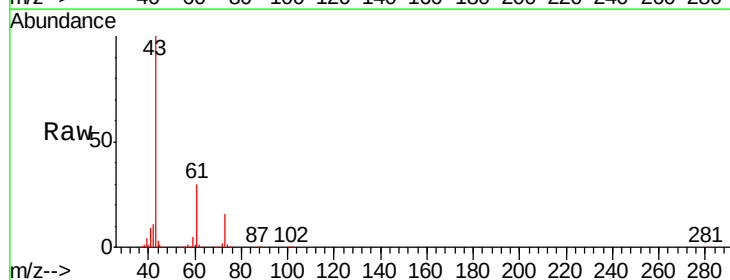
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#09

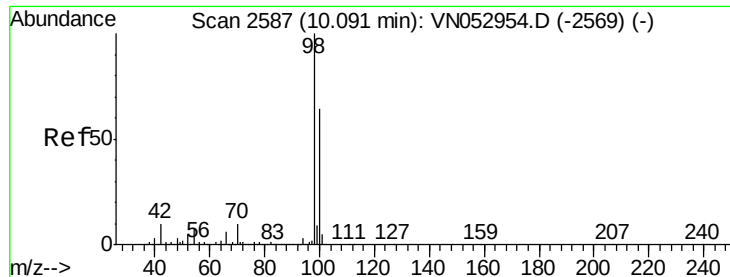
Tgt Ion: 41 Resp: 14419
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 0.247 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 26.6 40.0#
58 0.0 58.4 87.6#





#50

Toluene-d8

Concen: 0.247 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

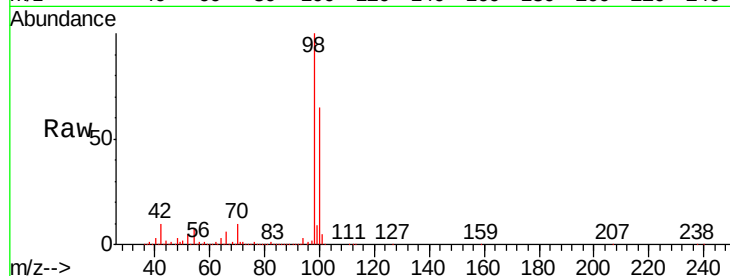
PB116111ZHE#09

Tgt Ion: 98 Resp: 2198730

Ion Ratio Lower Upper

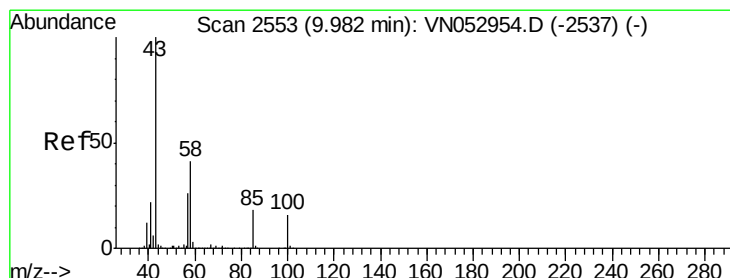
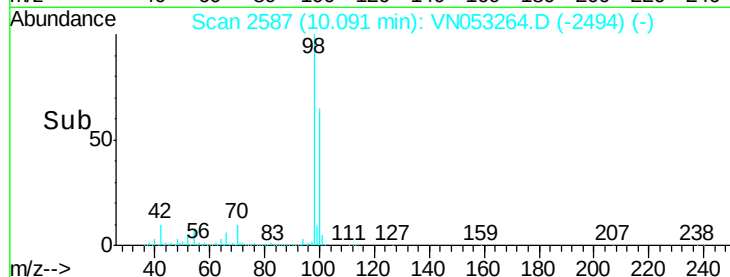
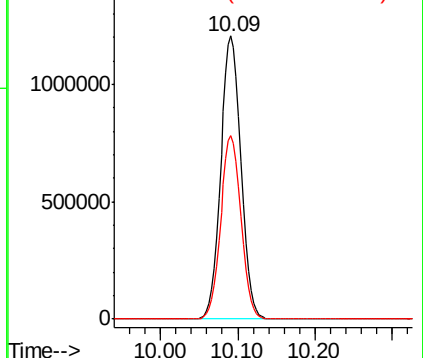
98 100

100 65.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.111 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053264.D

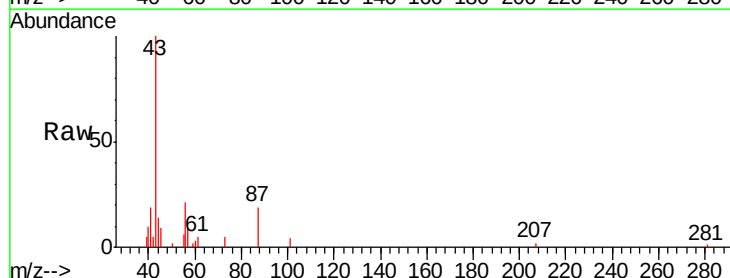
Acq: 3 Jan 2019 16:04

Tgt Ion: 43 Resp: 19532

Ion Ratio Lower Upper

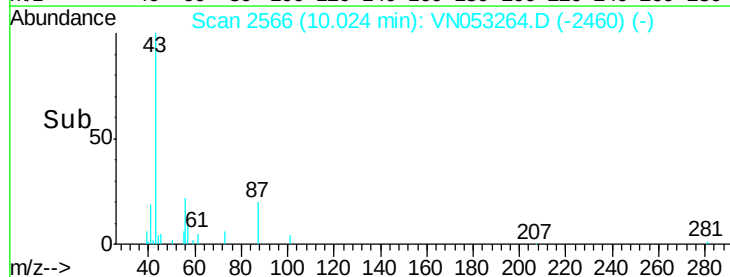
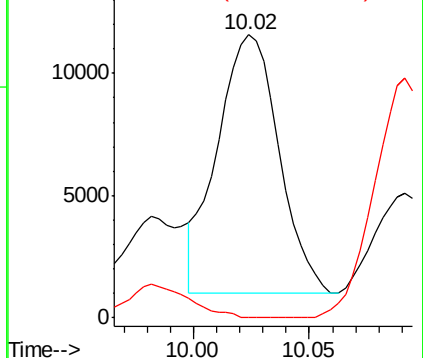
43 100

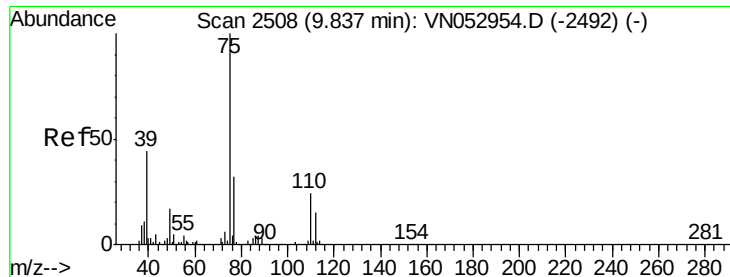
58 0.0 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.736 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#09

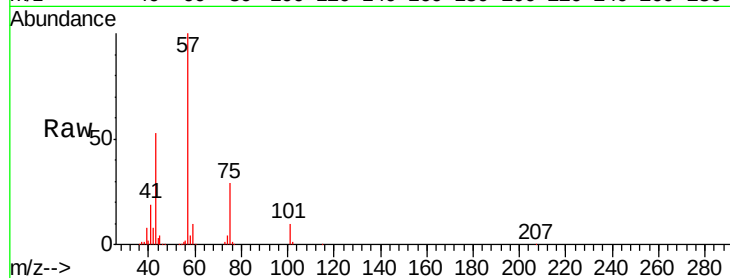
Tgt Ion: 75 Resp: 133526

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.8#

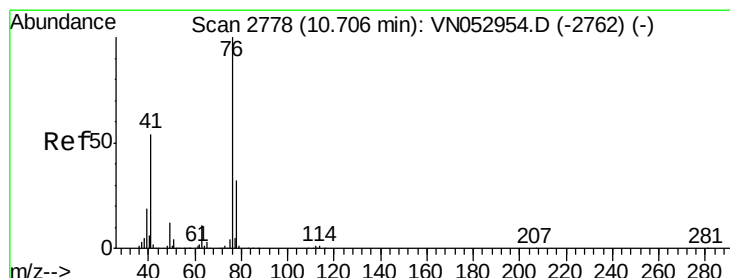
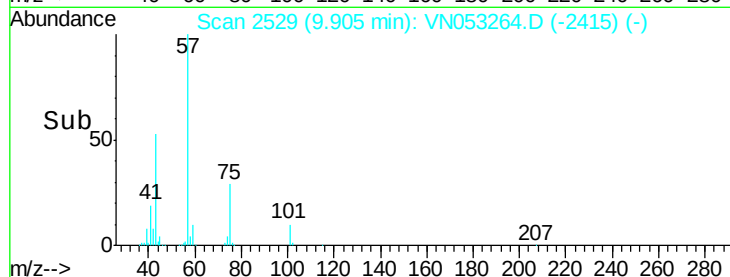
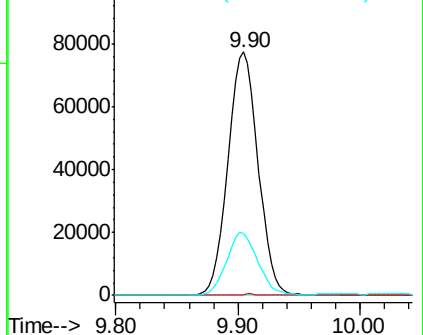
39 25.6 34.8 52.2#



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: 1.406 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053264.D

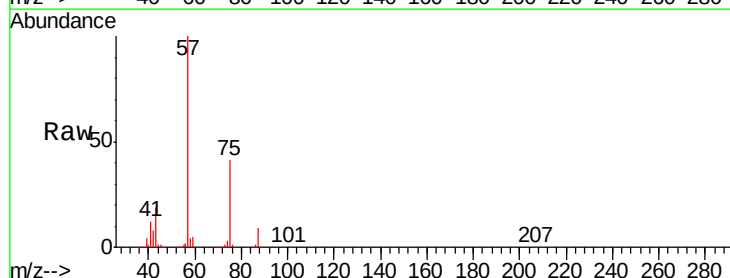
Acq: 3 Jan 2019 16:04

Tgt Ion: 76 Resp: 26546

Ion Ratio Lower Upper

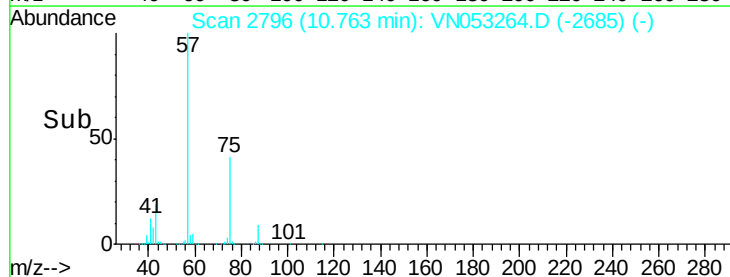
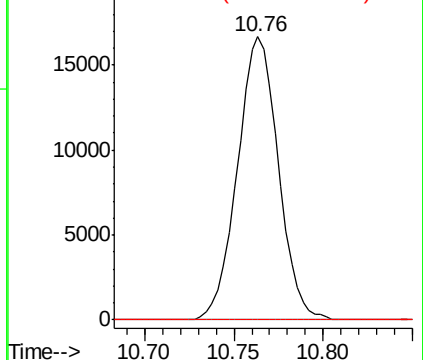
76 100

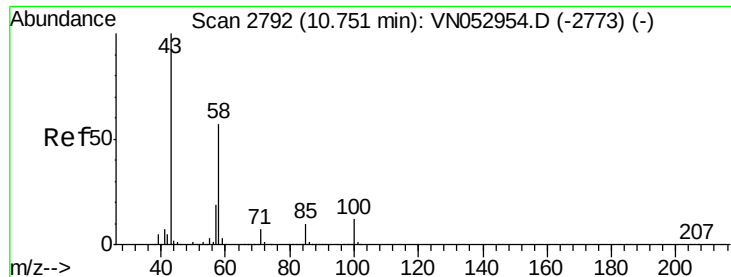
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

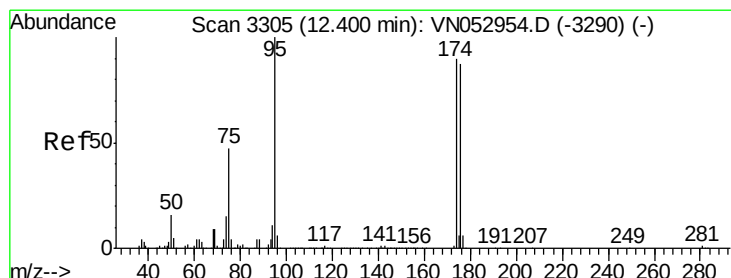
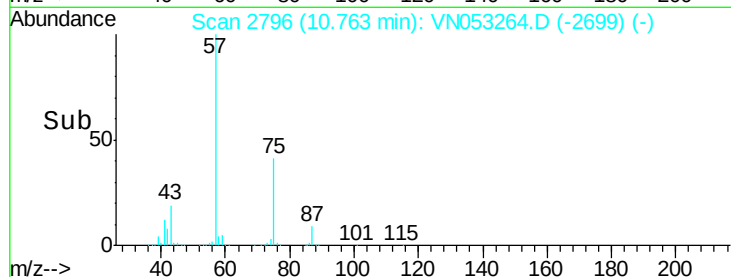
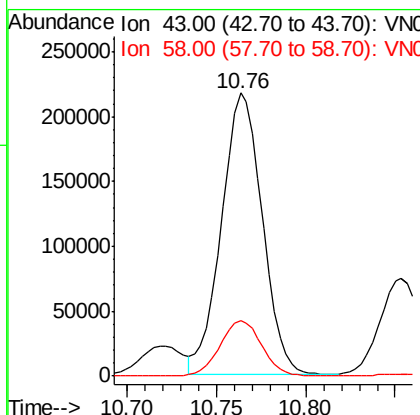
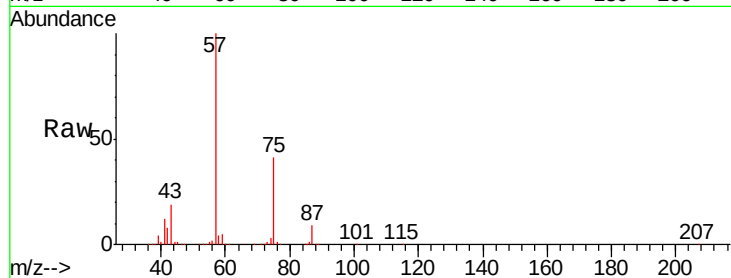




#59
2-Hexanone
Concen: 55.321 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

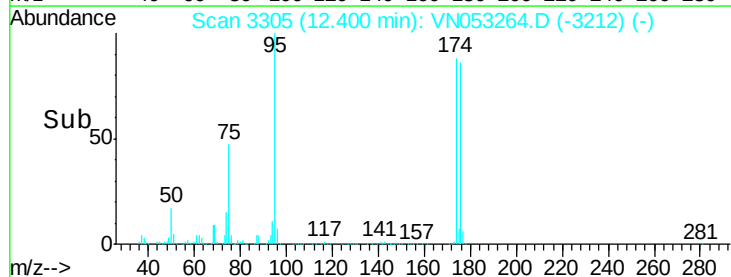
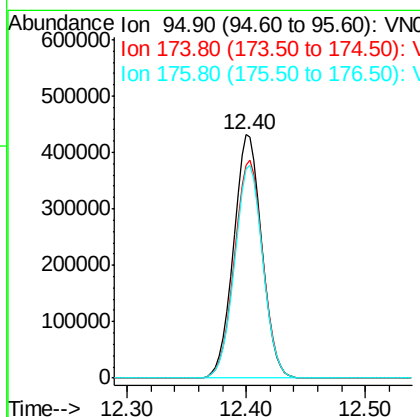
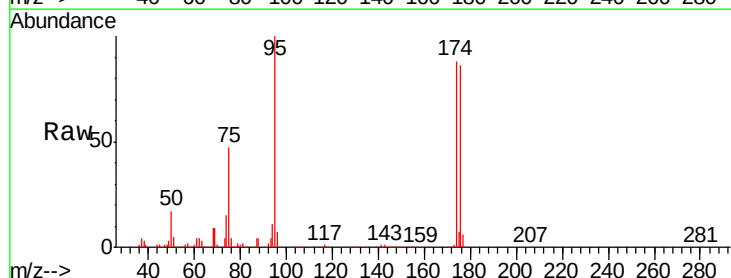
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#09

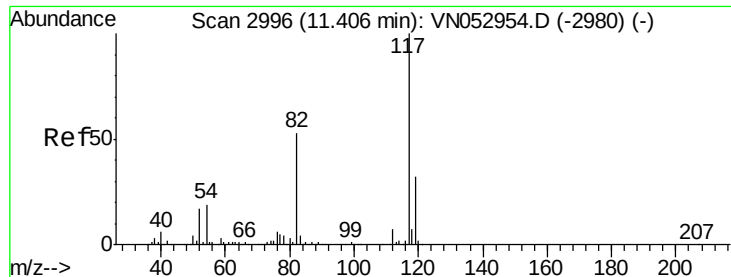
Tgt Ion: 43 Resp: 346372
Ion Ratio Lower Upper
43 100
58 20.2 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Tgt Ion: 95 Resp: 706425
Ion Ratio Lower Upper
95 100
174 90.5 0.0 178.8
176 87.6 0.0 173.8

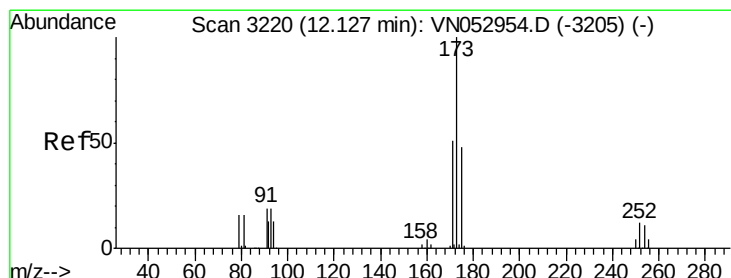
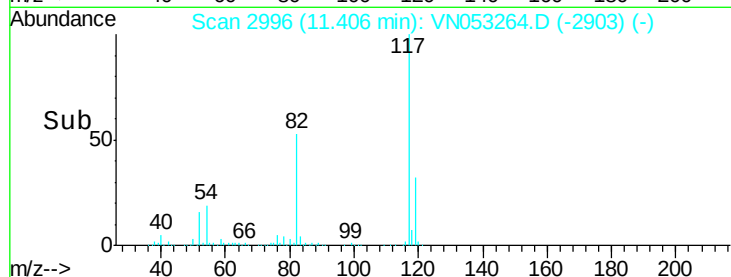
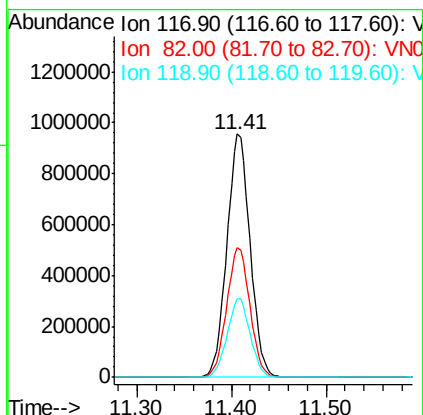
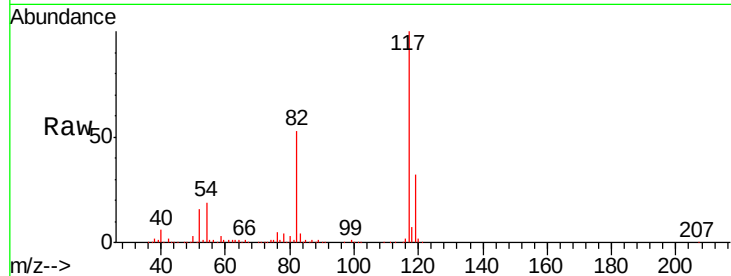




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

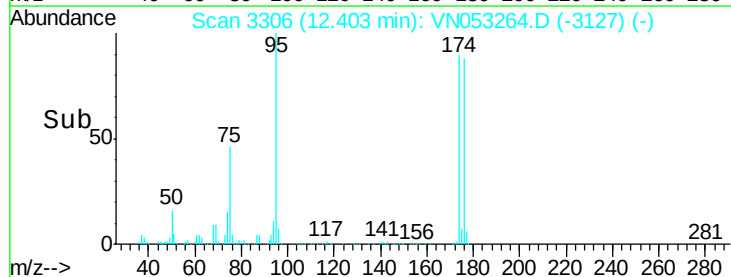
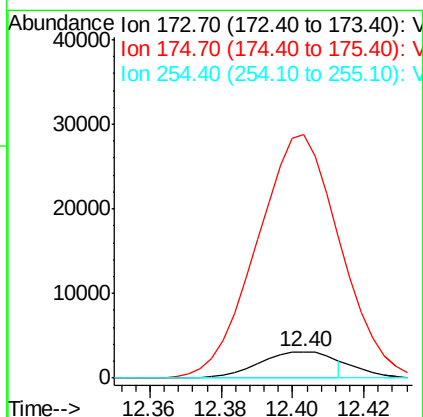
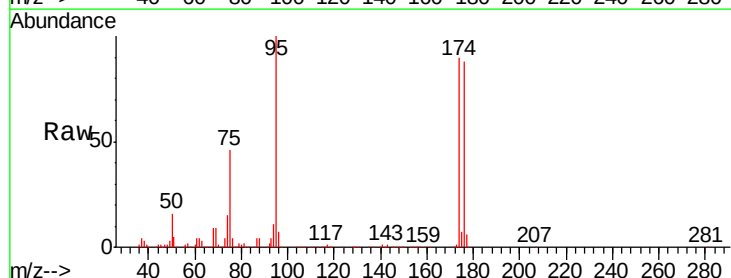
Instrument :
MSVOA_N
ClientSampleId :
PB116111ZHE#09

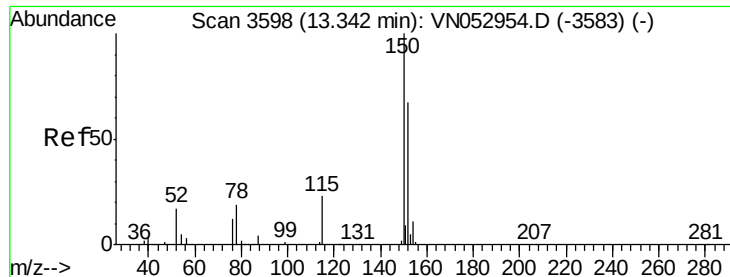
Tgt Ion:117 Resp: 1625092
Ion Ratio Lower Upper
117 100
82 53.2 42.8 64.2
119 32.2 25.5 38.3



#71
Bromoform
Concen: 0.491 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053264.D
Acq: 3 Jan 2019 16:04

Tgt Ion:173 Resp: 4446
Ion Ratio Lower Upper
173 100
175 919.6 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: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#09

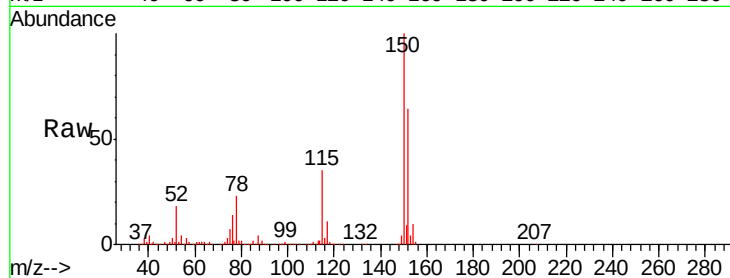
Tgt Ion:152 Resp: 590187

Ion Ratio Lower Upper

152 100

115 55.4 28.3 85.0

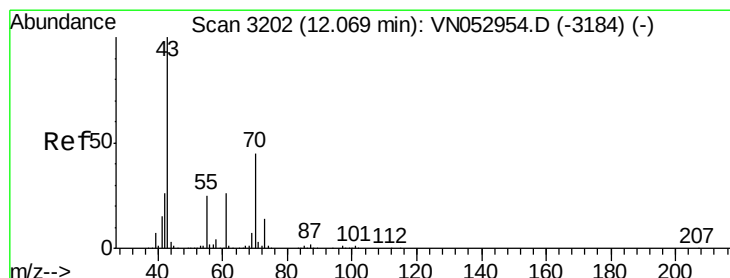
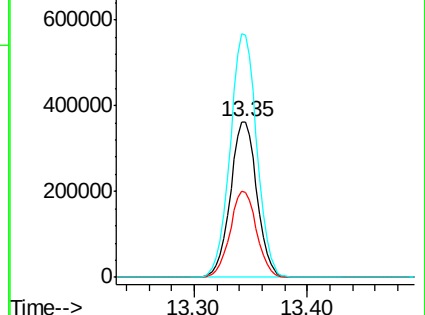
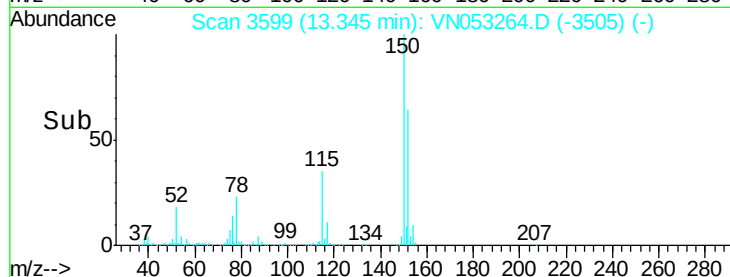
150 157.0 0.0 347.8



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: 3.338 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Tgt Ion: 43 Resp: 42799

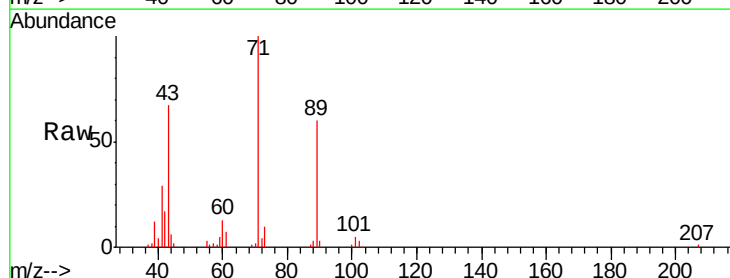
Ion Ratio Lower Upper

43 100

70 2.2 34.2 51.4#

55 4.3 20.3 30.5#

61 11.1 20.0 30.0#

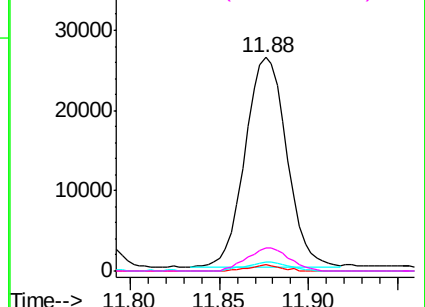
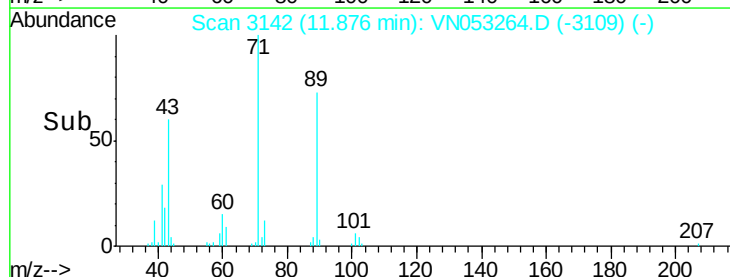


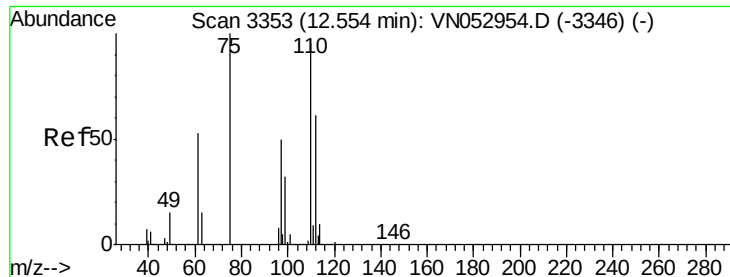
Abundance Ion 43.00 (42.70 to 43.70): V

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: 33.033 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

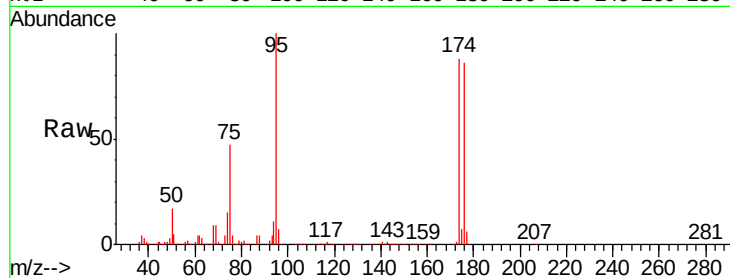
PB116111ZHE#09

Tgt Ion: 75 Resp: 328187

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053264.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN053264.D (-3260) (-)

12.40

200000

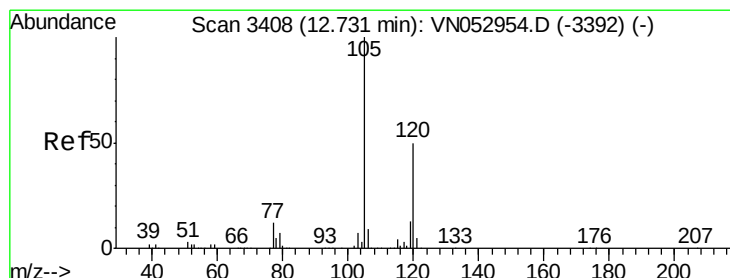
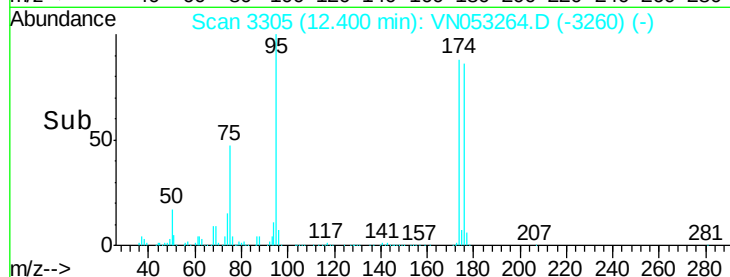
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.644 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053264.D

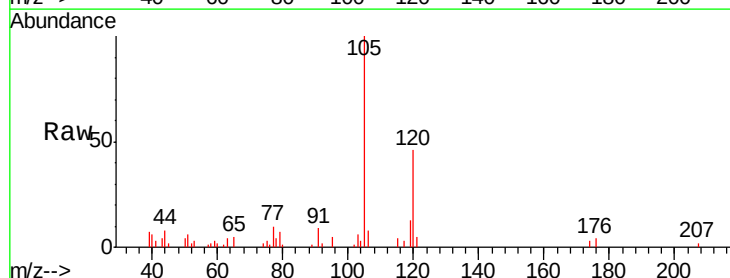
Acq: 3 Jan 2019 16:04

Tgt Ion: 105 Resp: 24240

Ion Ratio Lower Upper

105 100

120 46.5 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN053264.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053264.D (-3315) (-)

12.73

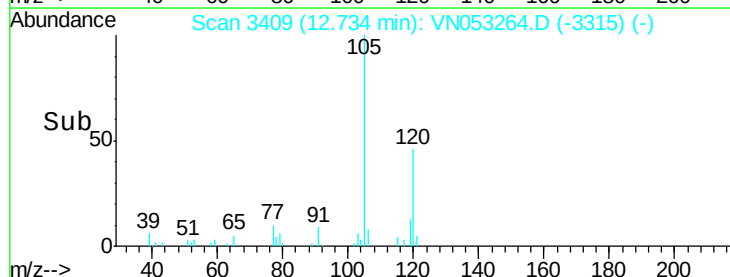
15000

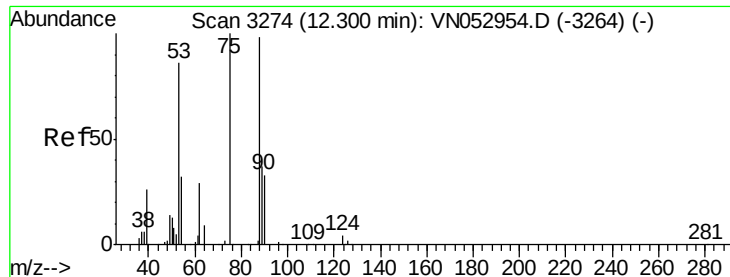
10000

5000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 106.469 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

Instrument :

MSVOA_N

ClientSampleId :

PB116111ZHE#09

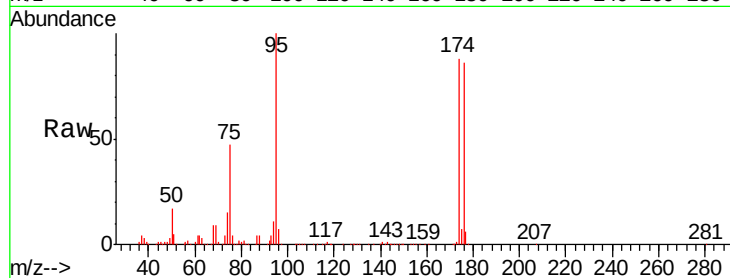
Tgt Ion: 75 Resp: 328187

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

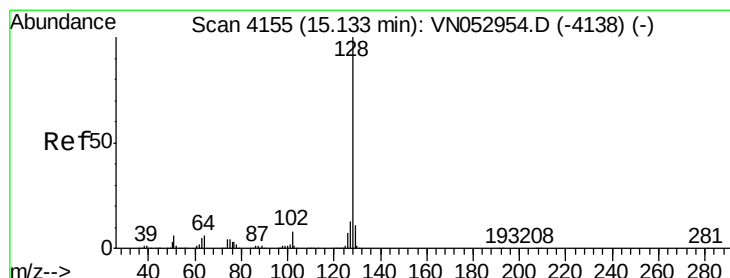
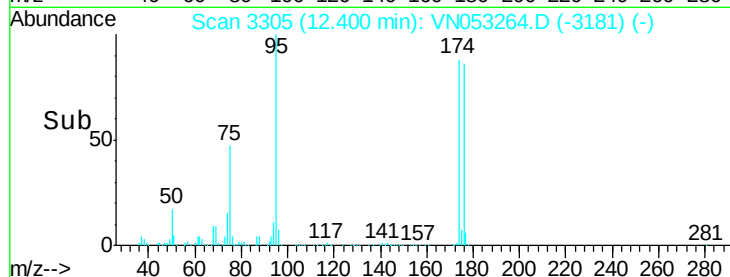
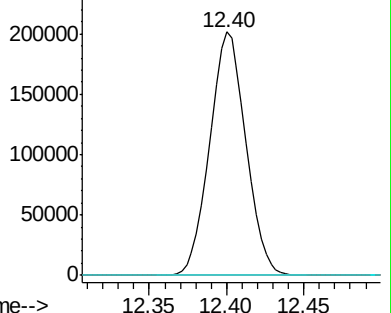
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN053264.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053264.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053264.D (-3181) (-)



#95

Naphthalene

Concen: 1.153 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053264.D

Acq: 3 Jan 2019 16:04

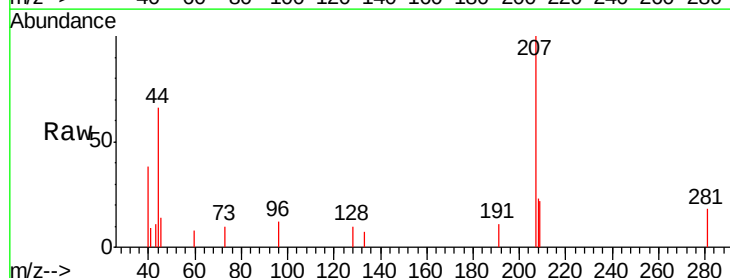
Tgt Ion: 128 Resp: 154

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): VN053264.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN053264.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN053264.D (-4062) (-)

