

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061938.D
 Acq On : 19 Jun 2020 7:42
 Operator : JC/MD
 Sample : L2809-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-061720

Quant Time: Jun 19 08:02:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	143835	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	272650	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	270336	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	99776	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	98989	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
35) Dibromofluoromethane	7.55	113	86052	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	10.06	98	349914	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.38	95	113028	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	

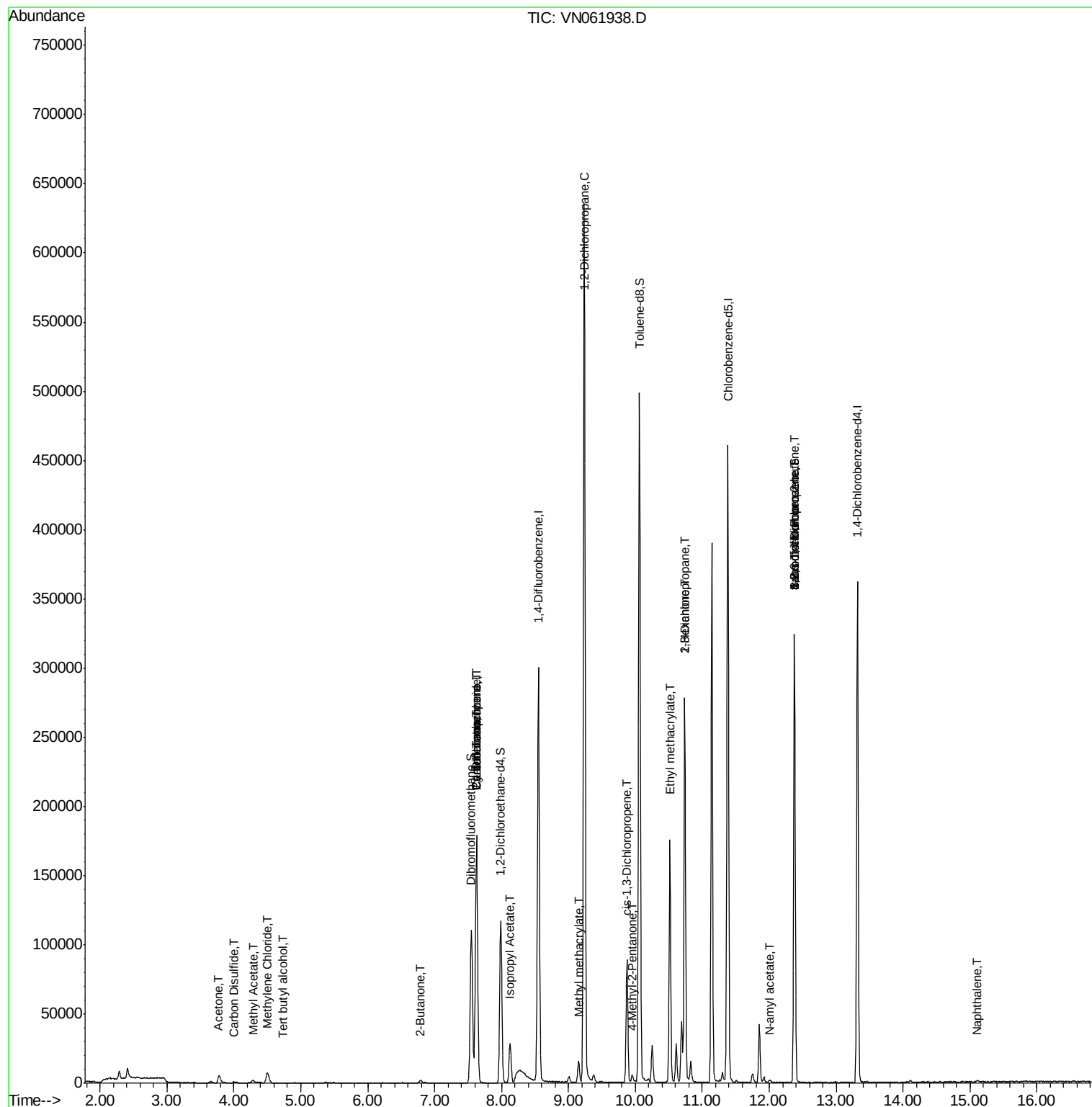
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	62	0.232	ug/l #	74
16) Acetone	3.77	43	9591	16.832	ug/l	98
17) Carbon Disulfide	4.00	76	1694	0.396	ug/l #	75
18) Methyl Acetate	4.28	43	3746	2.283	ug/l #	89
20) Methylene Chloride	4.50	84	6161	3.319	ug/l #	92
25) 2-Butanone	6.79	43	3075	3.699	ug/l	99
31) Cyclohexane	7.63	56	2984	1.174	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	11871	4.773	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15090	6.127	ug/l #	17
43) Isopropyl Acetate	8.13	43	32217	9.844	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	903	0.488	ug/l #	43
48) Methyl methacrylate	9.14	41	1829	1.229	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	3404	1.760	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	16670	5.416	ug/l #	68
56) Ethyl methacrylate	10.52	69	750	3.151	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3172	1.006	ug/l #	42
59) 2-Hexanone	10.73	43	35993	35.453	ug/l #	51
71) Bromoform	12.38	173	560	0.386	ug/l #	1
74) N-amyl acetate	12.00	43	1514	3.618	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	56231	28.706	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	56231	78.294	ug/l #	14
95) Naphthalene	15.11	128	1601	3.783	ug/l #	71

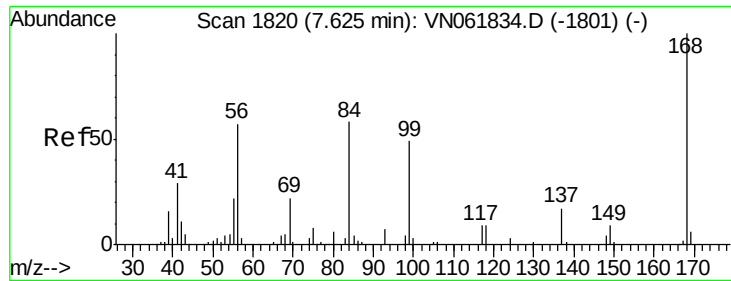
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

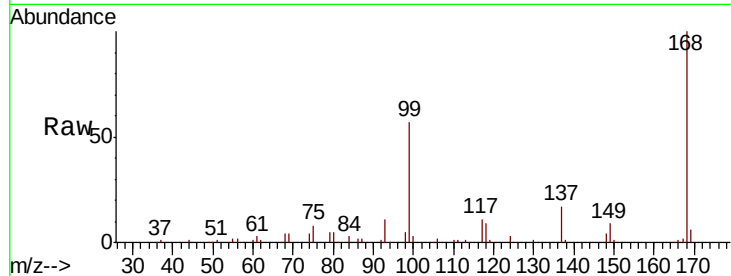
HD-01-061720

Tot Ion:168 Resp: 143835

Ion Ratio Lower Upper

168 100

99 57.4 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

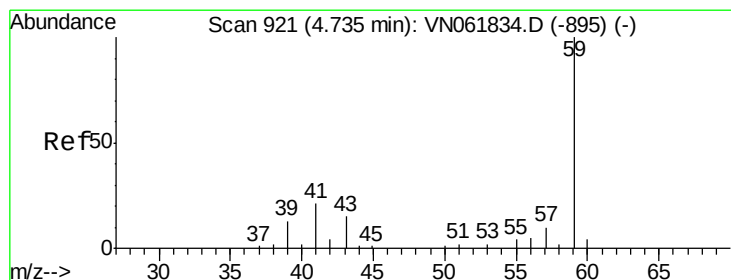
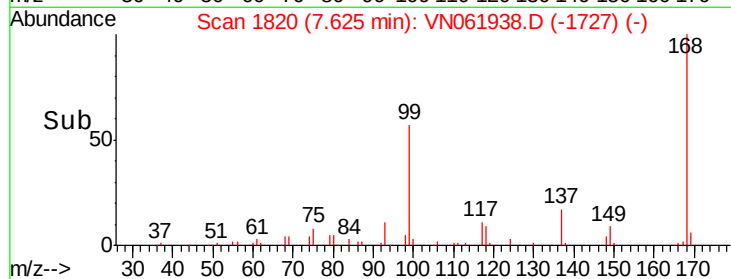
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.232 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN061938.D

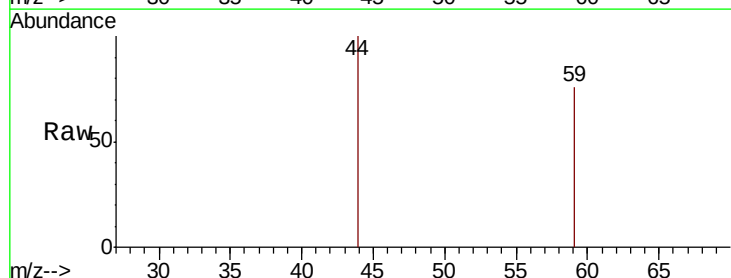
Acq: 19 Jun 2020 7:42

Tgt Ion: 59 Resp: 62

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

150

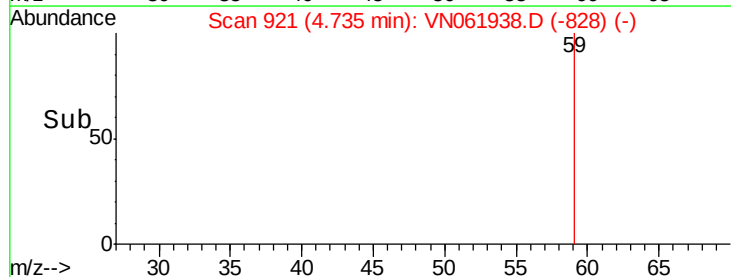
100

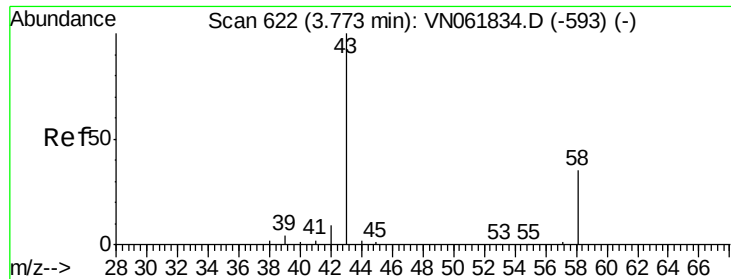
50

0

Time-->

4.72 4.73 4.74





#16

Acetone

Concen: 16.832 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

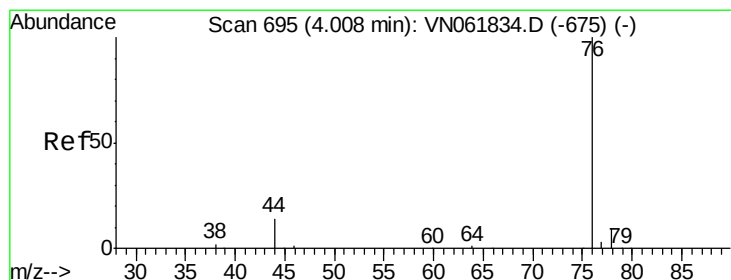
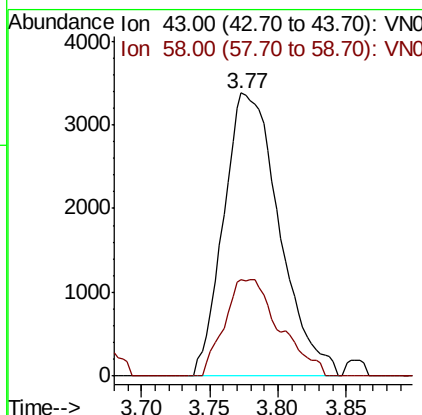
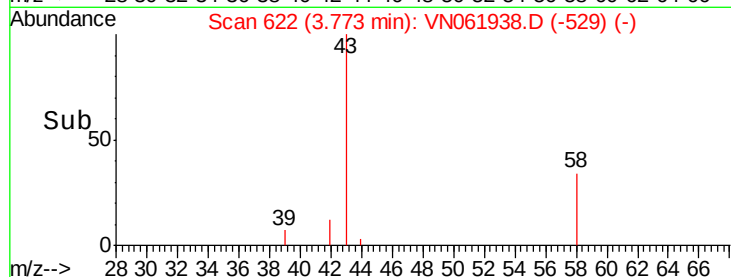
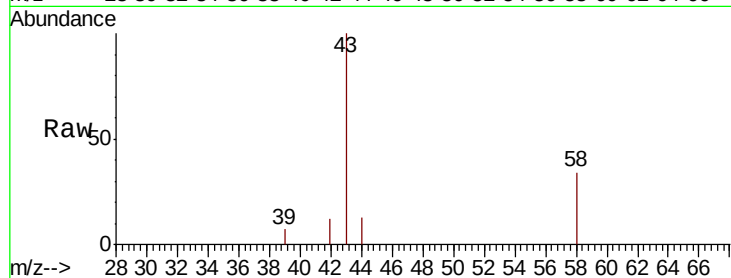
HD-01-061720

Tot Ion: 43 Resp: 9591

Ion Ratio Lower Upper

43 100

58 33.9 27.8 41.8



#17

Carbon Disulfide

Concen: 0.396 ug/l

RT: 4.00 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN061938.D

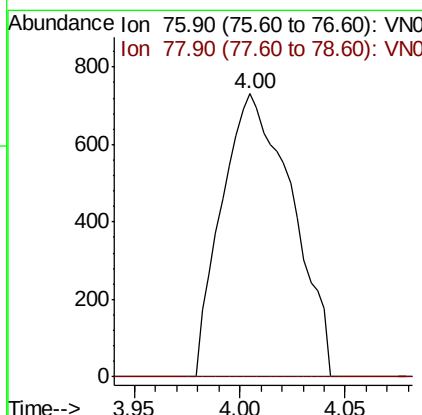
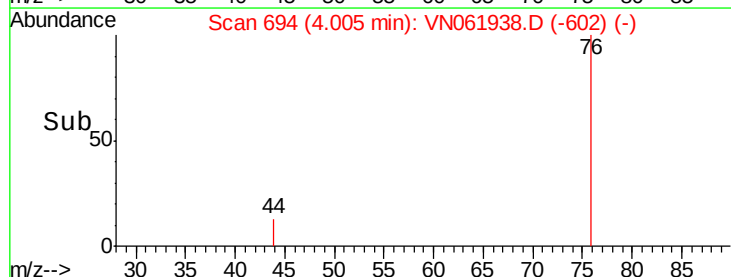
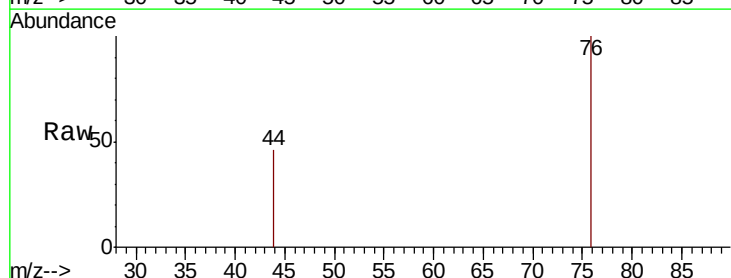
Acq: 19 Jun 2020 7:42

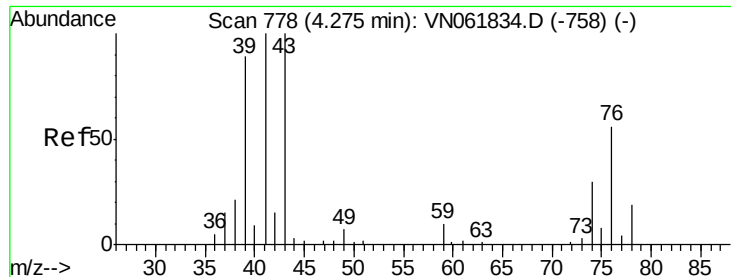
Tgt Ion: 76 Resp: 1694

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

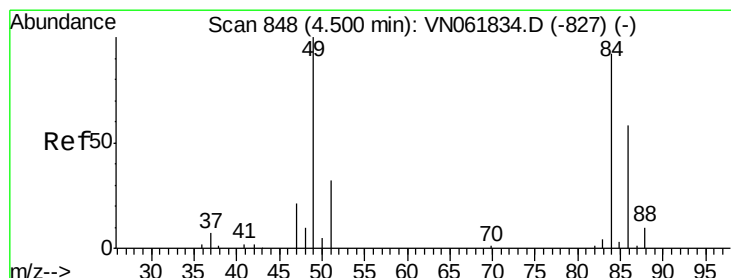
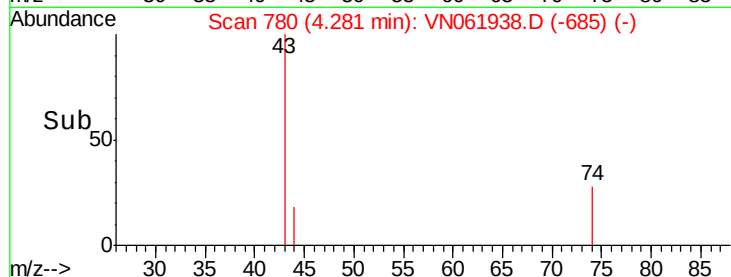
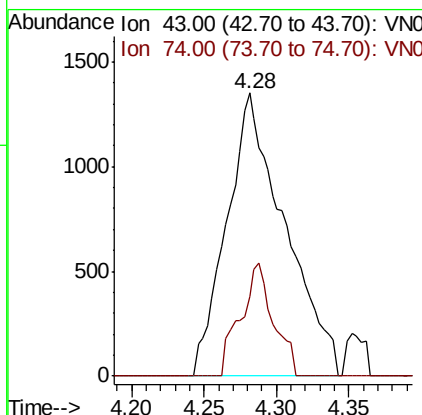
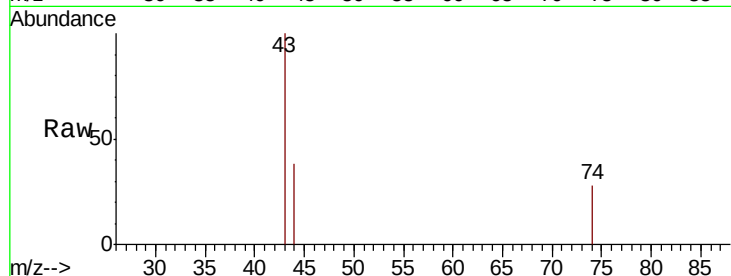




#18
Methyl Acetate
Concen: 2.283 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061938.D
Acq: 19 Jun 2020 7:42

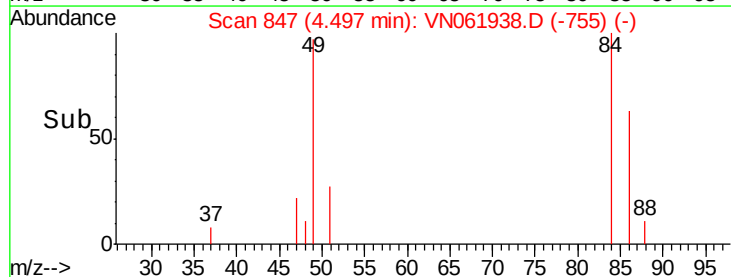
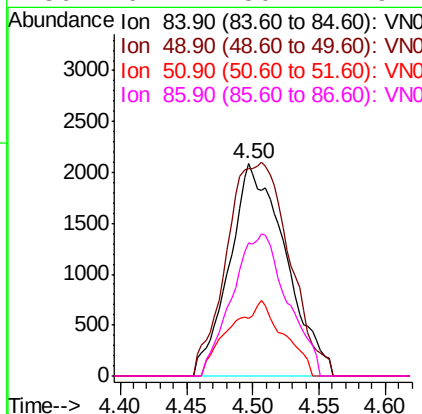
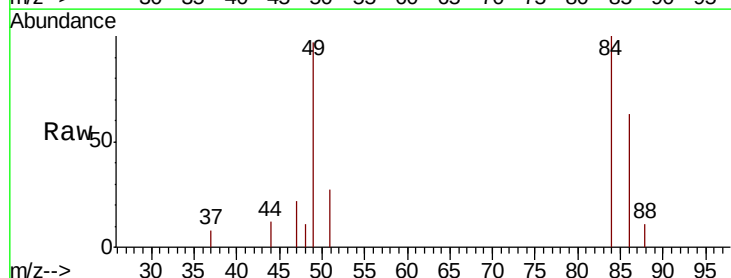
Instrument :
MSVOA_N
ClientSampled :
HD-01-061720

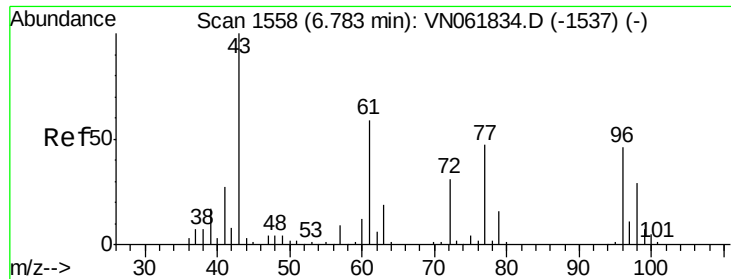
Tot Ion: 43 Resp: 3746
Ion Ratio Lower Upper
43 100
74 22.6 23.0 34.4#



#20
Methylene Chloride
Concen: 3.319 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.00 min
Lab File: VN061938.D
Acq: 19 Jun 2020 7:42

Tgt Ion: 84 Resp: 6161
Ion Ratio Lower Upper
84 100
49 97.5 87.0 130.4
51 27.1 27.8 41.6#
86 62.7 50.2 75.2

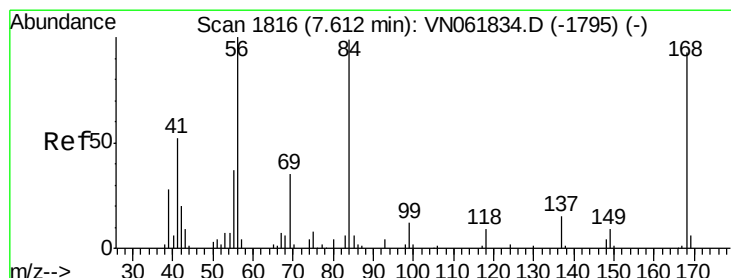
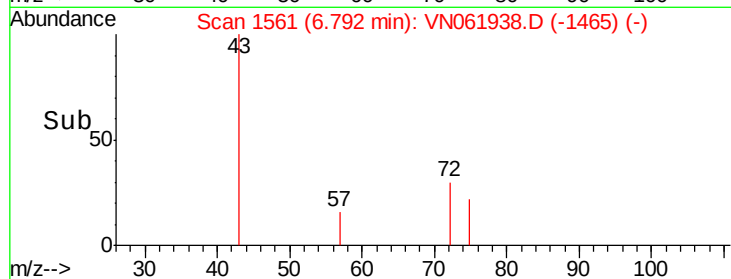
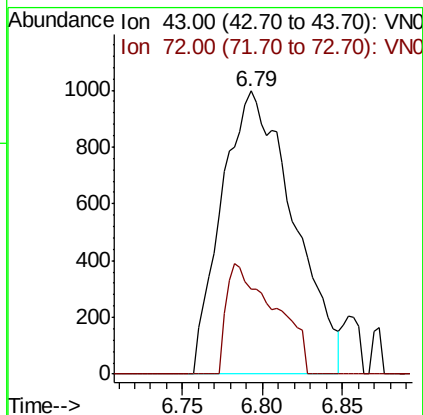
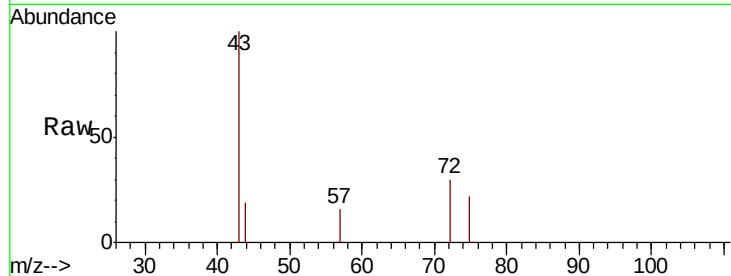




#25
2-Butanone
Concen: 3.699 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061938.D
Acq: 19 Jun 2020 7:42

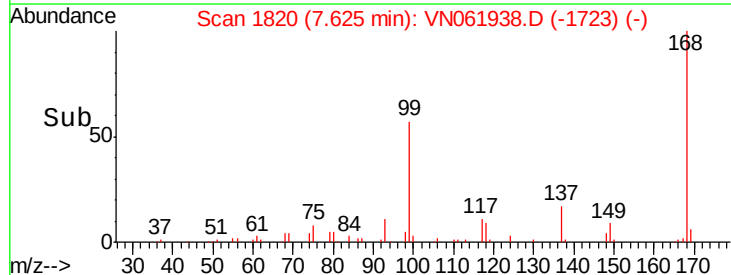
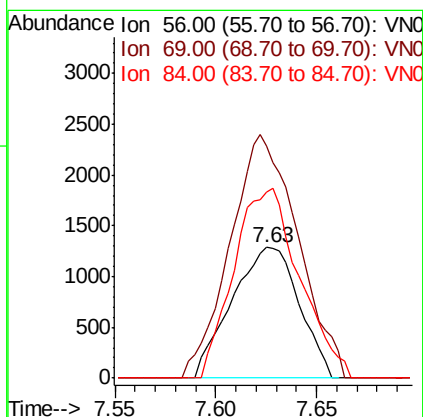
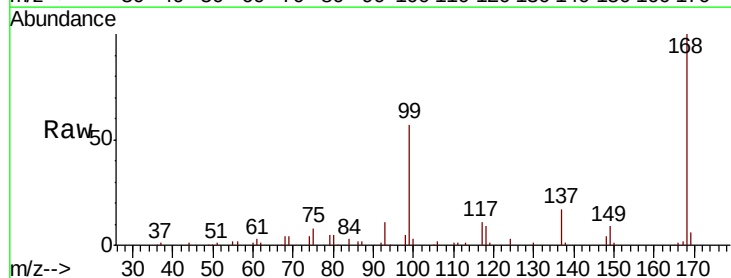
Instrument :
MSVOA_N
ClientSampled :
HD-01-061720

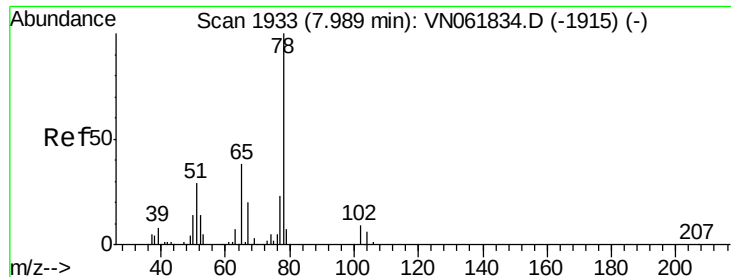
Tot Ion: 43 Resp: 3075
Ion Ratio Lower Upper
43 100
72 30.0 24.6 37.0



#31
Cyclohexane
Concen: 1.174 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061938.D
Acq: 19 Jun 2020 7:42

Tgt Ion: 56 Resp: 2984
Ion Ratio Lower Upper
56 100
69 165.0 27.7 41.5#
84 142.3 79.1 118.7#

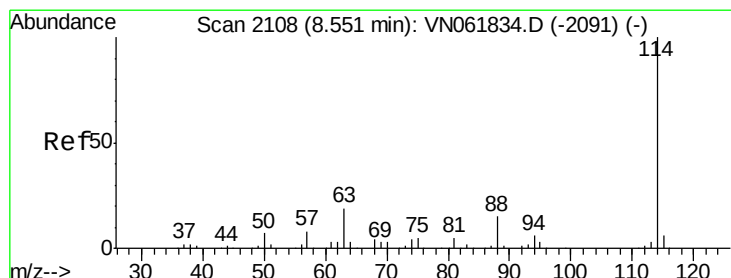
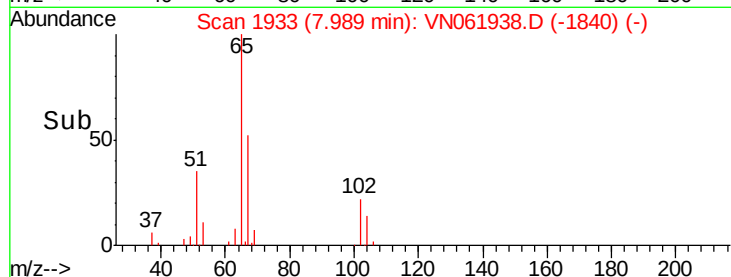
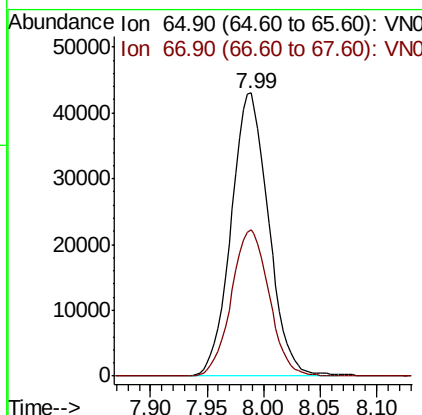
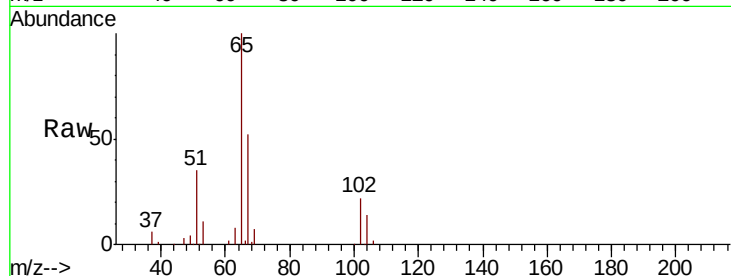




#33
 1,2-Dichloroethane-d4
 Concen: 51.315 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

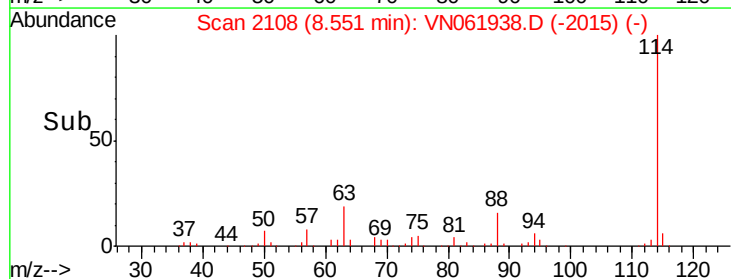
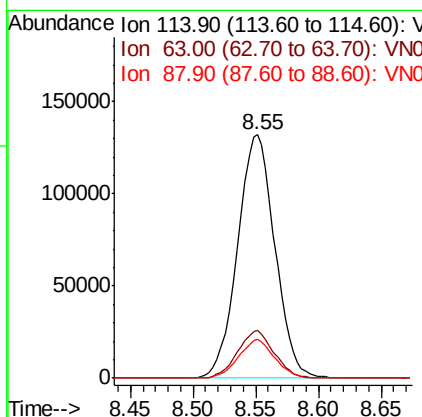
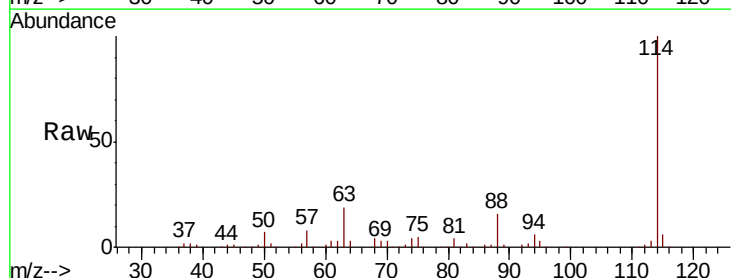
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 ClientSampleId :
 HD-01-061720

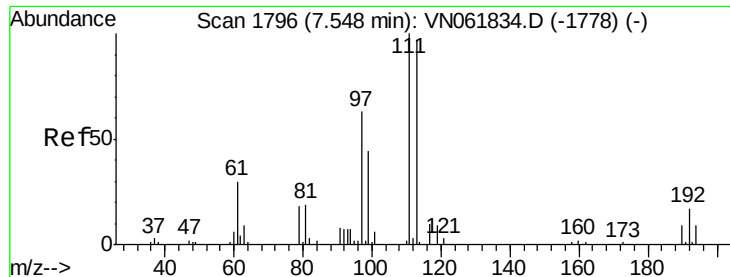
Tot Ion: 65 Resp: 98989
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

Tgt Ion: 114 Resp: 272650
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 37.6
 88 15.9 0.0 31.0

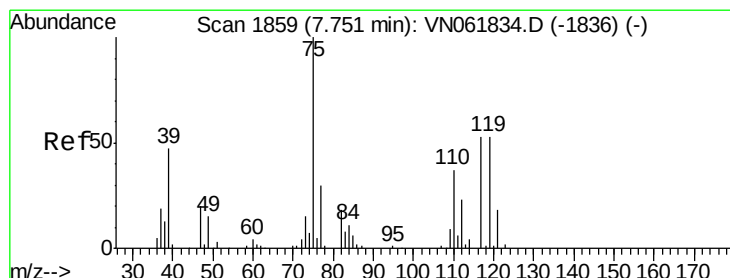
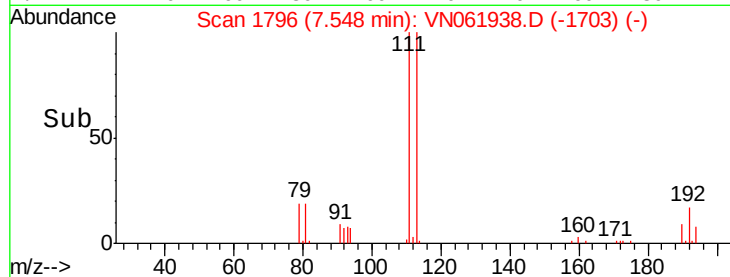
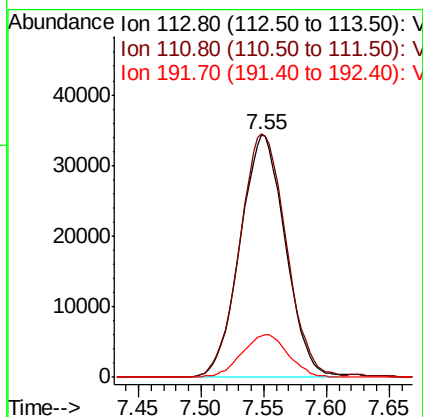
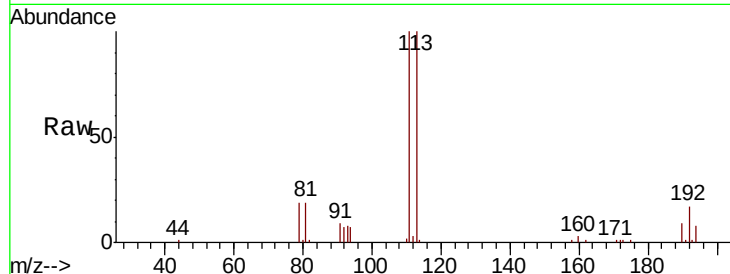




#35
 Dibromofluoromethane
 Concen: 49.334 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

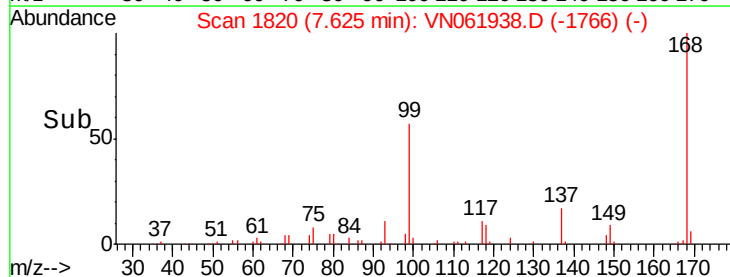
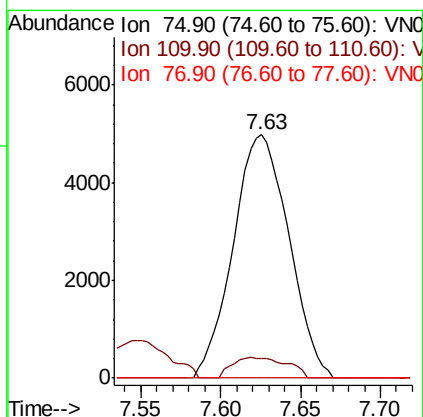
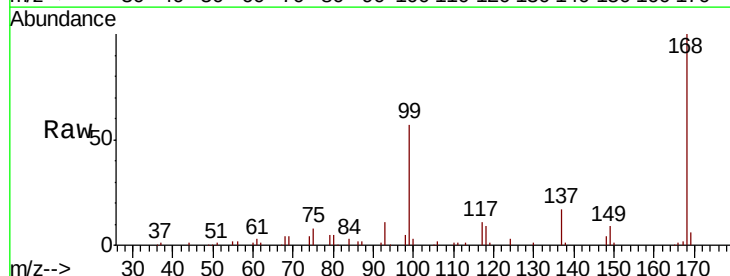
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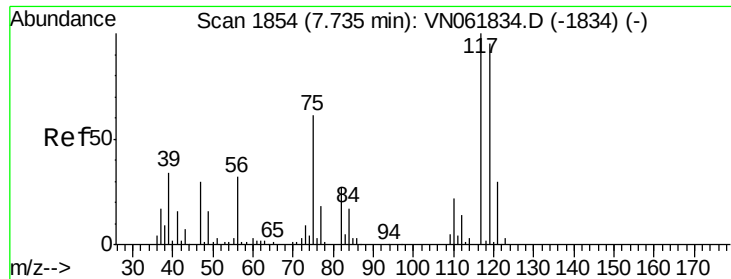
Tot Ion:113 Resp: 86052
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.7 125.5
 192 18.0 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.773 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

Tgt Ion: 75 Resp: 11871
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.2 54.6#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.127 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

HD-01-061720

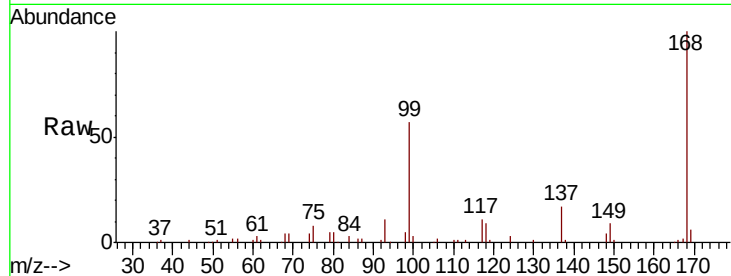
Tot Ion:117 Resp: 15090

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

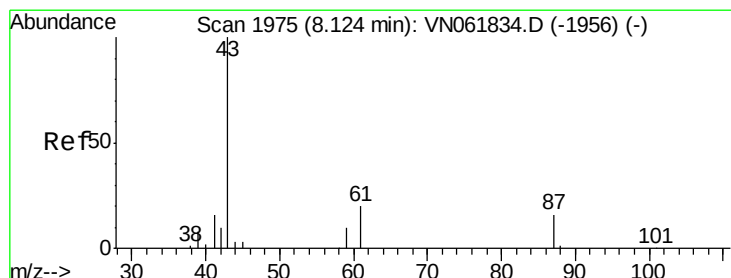
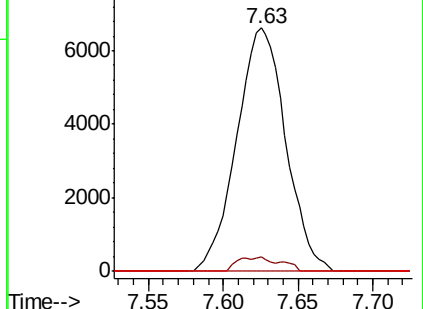
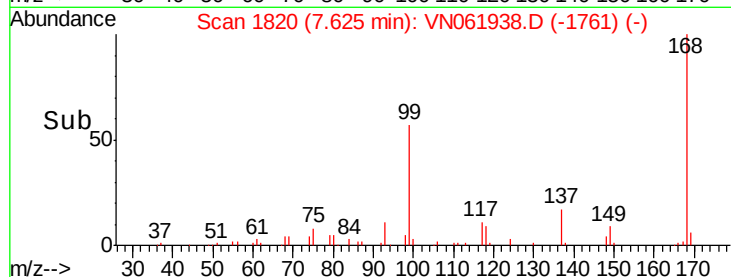
121 0.0 23.8 35.6#



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: 9.844 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

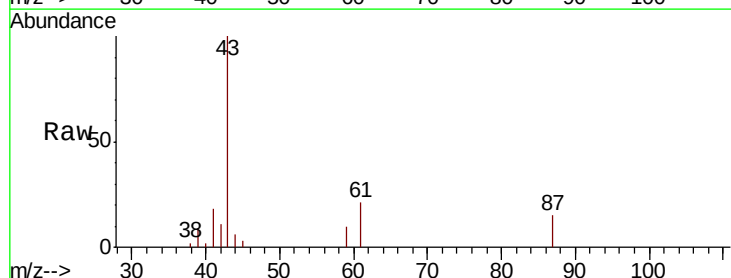
Tgt Ion: 43 Resp: 32217

Ion Ratio Lower Upper

43 100

61 21.9 24.0 36.0#

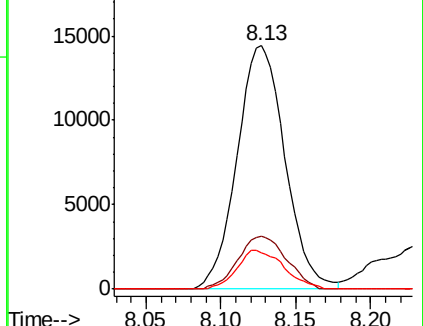
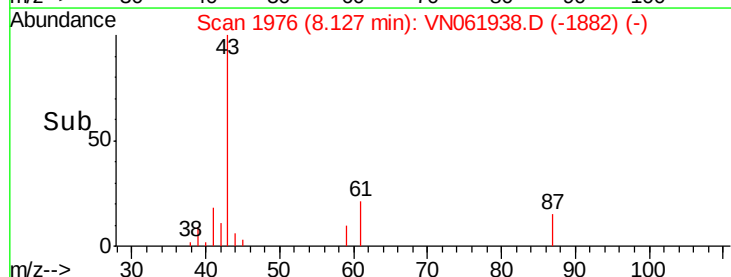
87 15.7 12.5 18.7

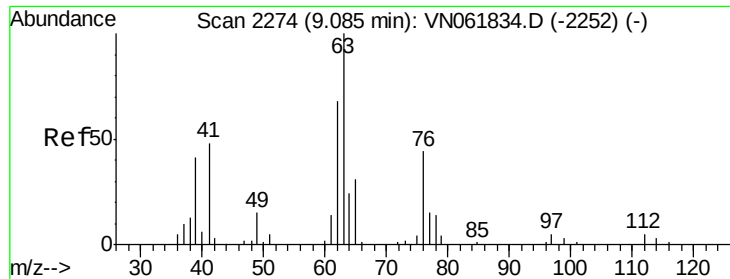


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

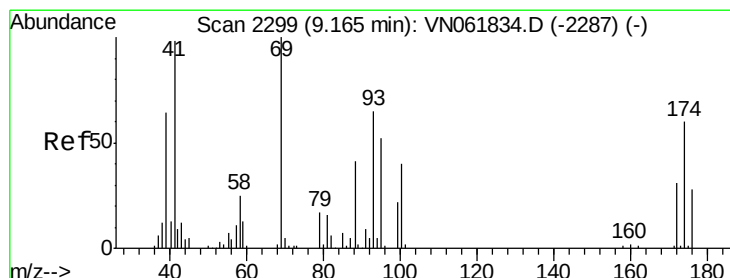
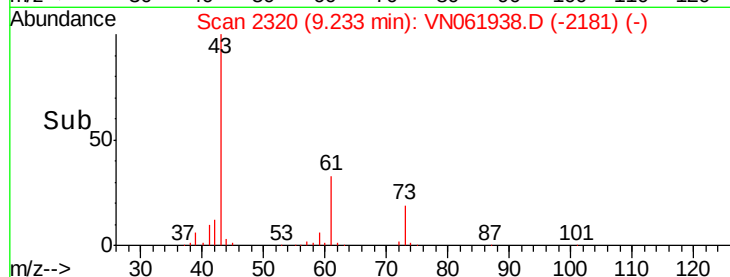
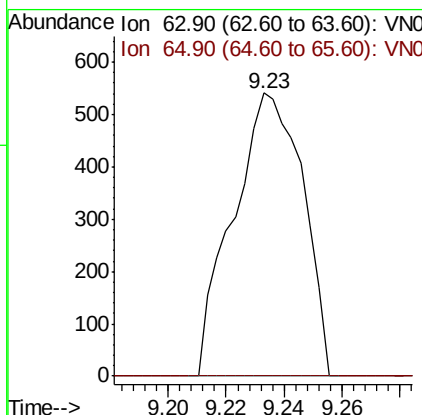
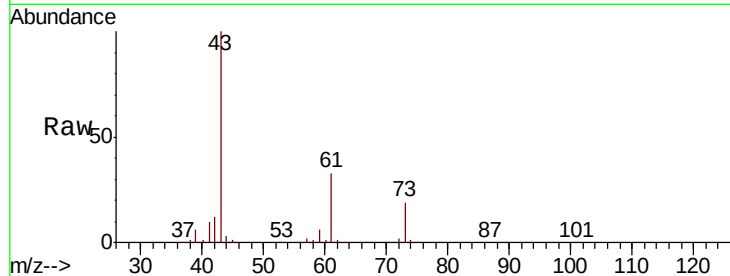




#45
 1,2-Dichloropropane
 Concen: 0.488 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

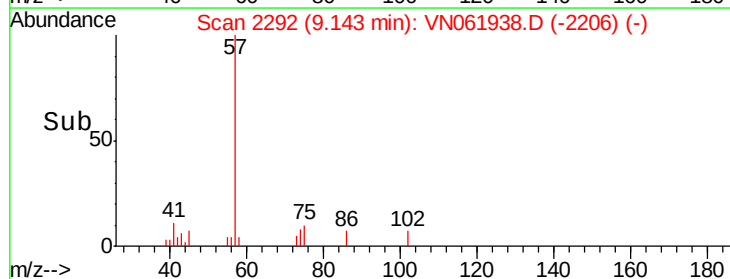
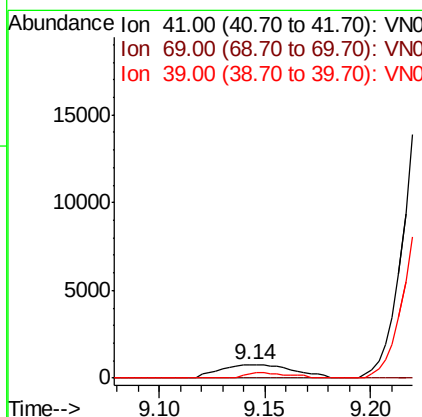
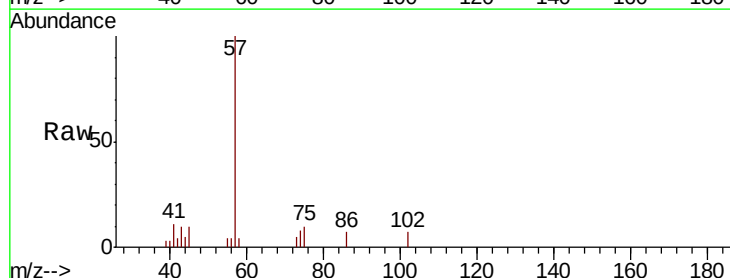
Instrument :
 MSVOA_N
 ClientSampleId :
 HD-01-061720

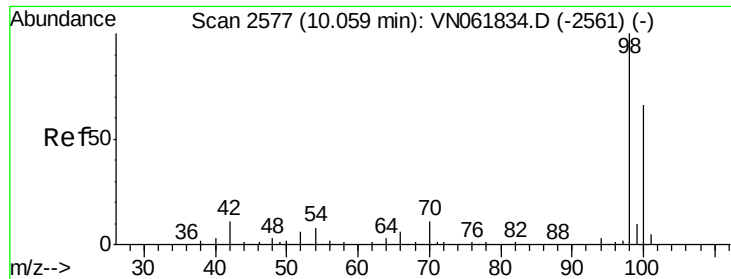
Tot Ion: 63 Resp: 903
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 1.229 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

Tgt Ion: 41 Resp: 1829
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.0 124.4#
 39 0.0 55.1 82.7#





#50

Toluene-d8

Concen: 51.027 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

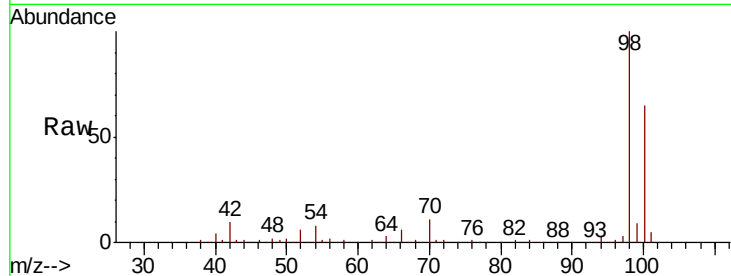
HD-01-061720

Tot Ion: 98 Resp: 349914

Ion Ratio Lower Upper

98 100

100 65.3 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061938.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061938.D (-2561) (-)

10.06

200000

150000

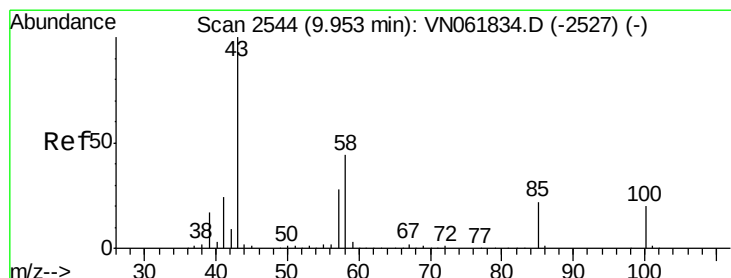
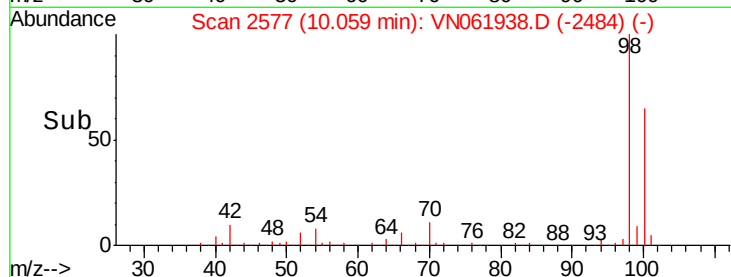
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.760 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061938.D

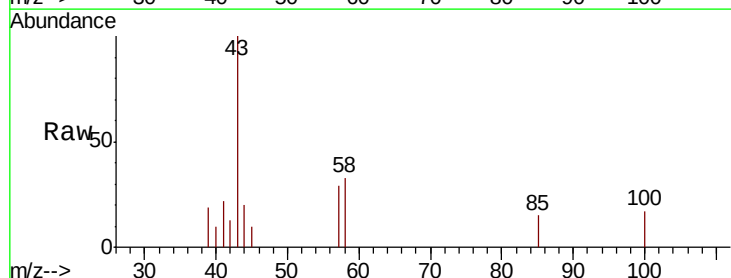
Acq: 19 Jun 2020 7:42

Tgt Ion: 43 Resp: 3404

Ion Ratio Lower Upper

43 100

58 40.2 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN061938.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061938.D (-2527) (-)

9.95

4000

3000

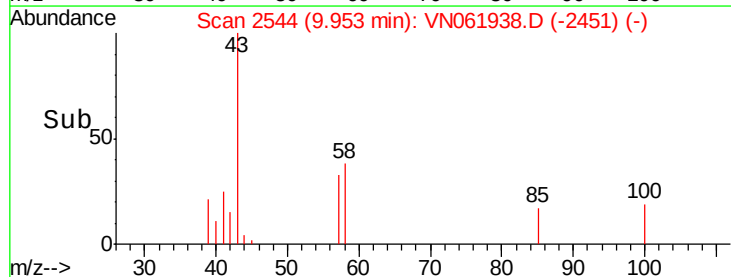
2000

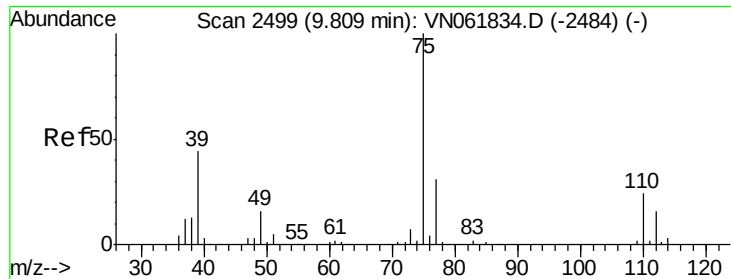
1000

0

9.90 9.95 10.00

Time-->



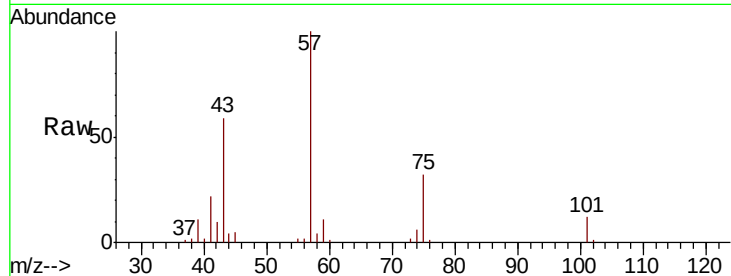


#54

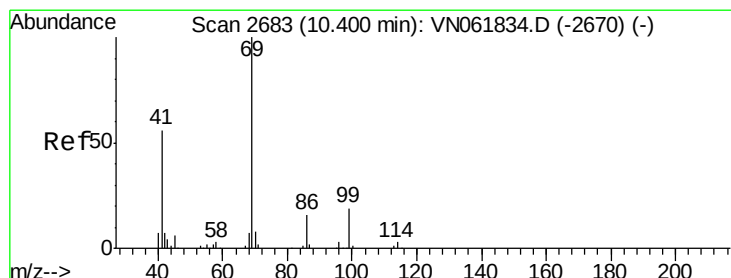
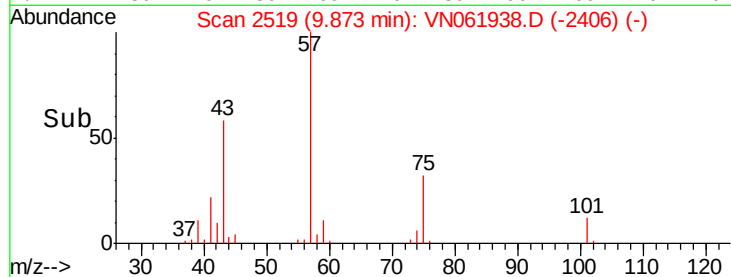
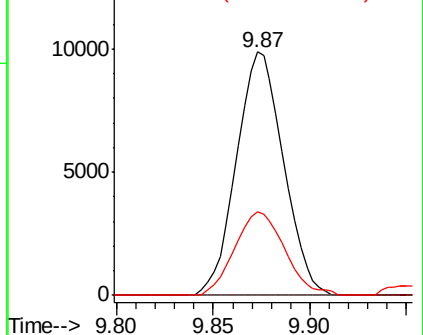
cis-1,3-Dichloropropene
 Concen: 5.416 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

Instrument :
 MSVOA_N
 ClientSampled :
 HD-01-061720

Tot Ion: 75 Resp: 16670
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.2 35.4 53.0#



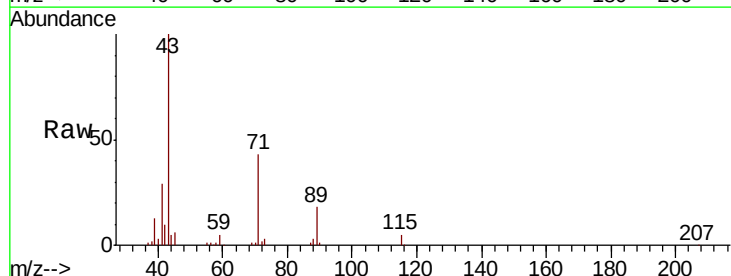
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



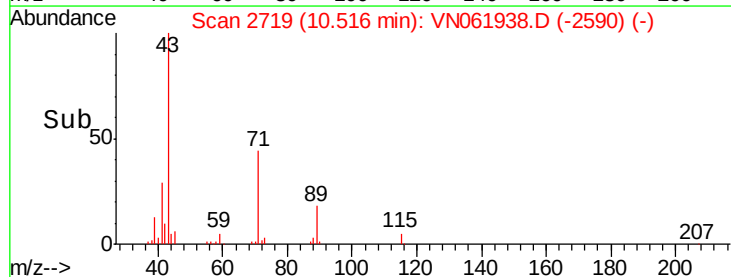
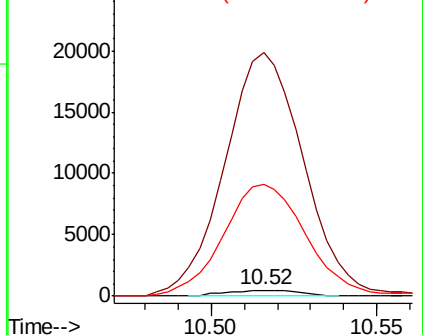
#56

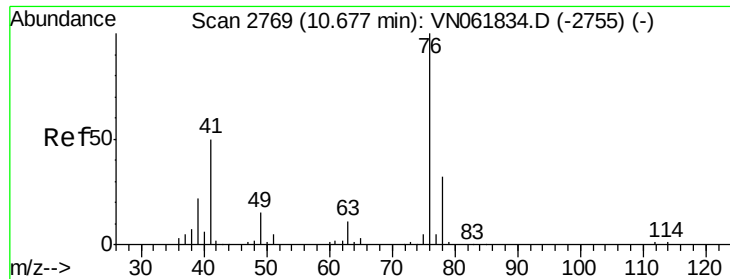
Ethyl methacrylate
 Concen: 3.151 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN061938.D
 Acq: 19 Jun 2020 7:42

Tgt Ion: 69 Resp: 750
 Ion Ratio Lower Upper
 69 100
 41 4404.1 44.9 67.3#
 39 2124.4 30.0 45.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.006 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampled :

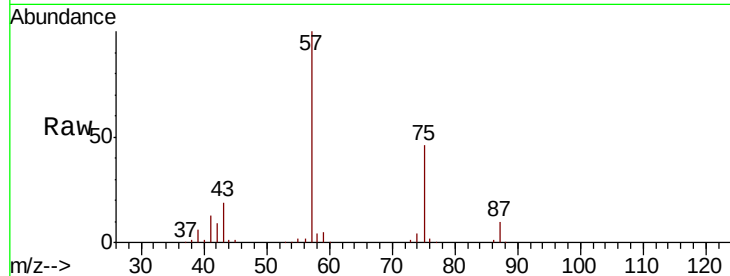
HD-01-061720

Tot Ion: 76 Resp: 3172

Ion Ratio Lower Upper

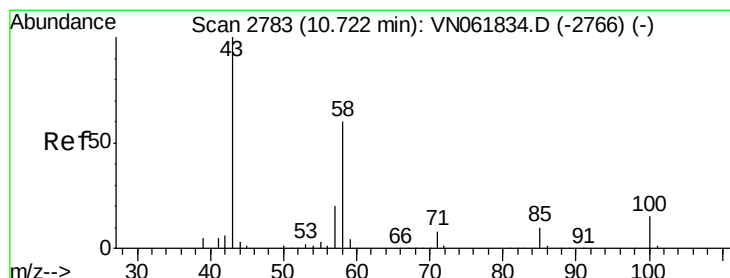
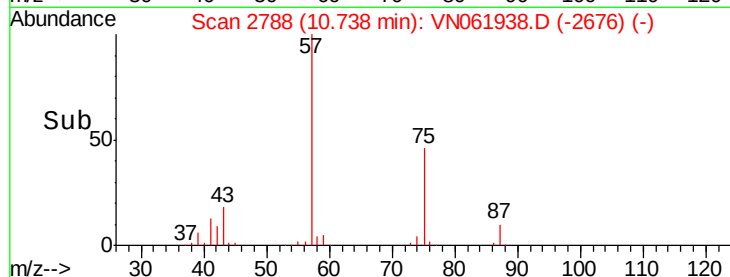
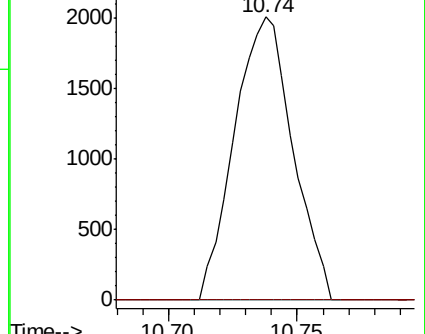
76 100

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: 35.453 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.01 min

Lab File: VN061938.D

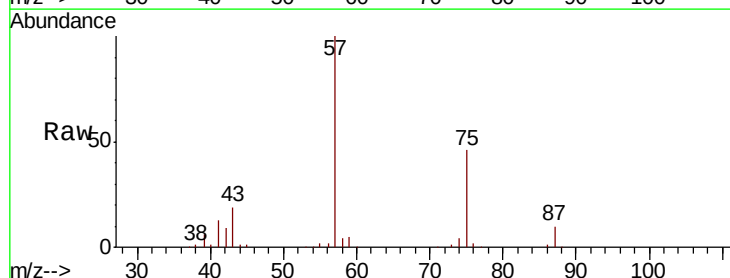
Acq: 19 Jun 2020 7:42

Tgt Ion: 43 Resp: 35993

Ion Ratio Lower Upper

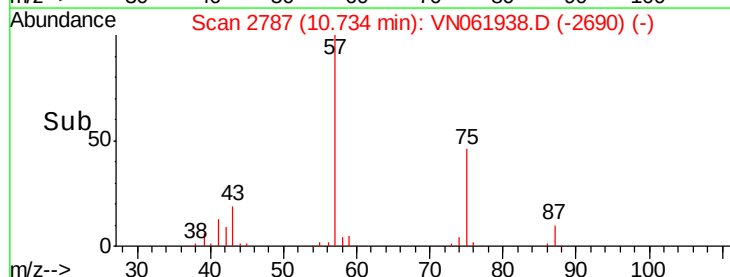
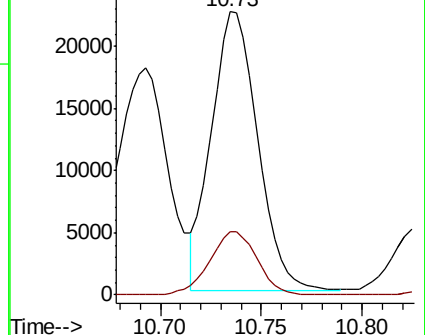
43 100

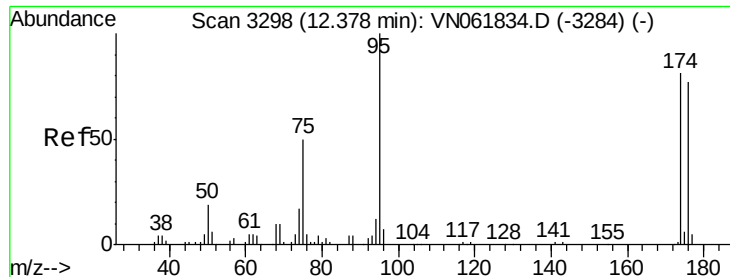
58 23.1 30.1 90.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 48.052 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

HD-01-061720

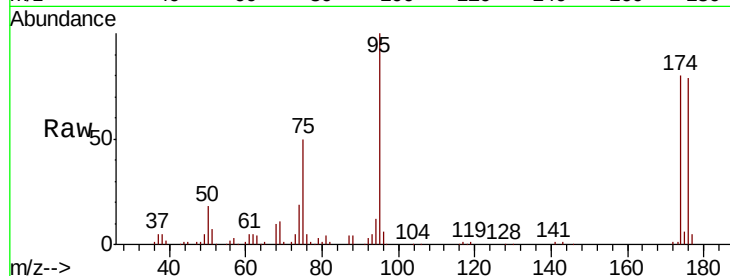
Tot Ion: 95 Resp: 113028

Ion Ratio Lower Upper

95 100

174 79.7 0.0 158.6

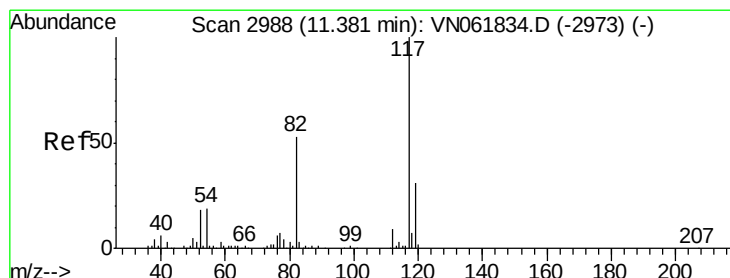
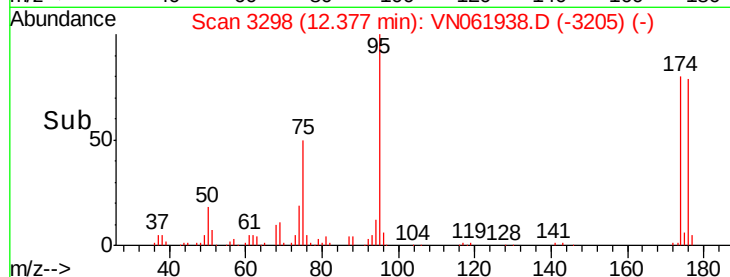
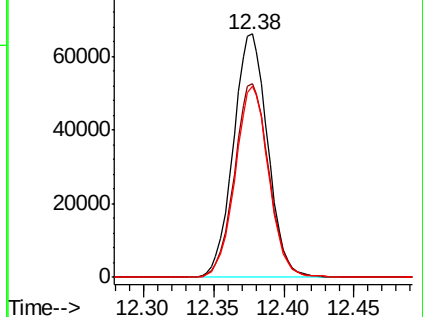
176 76.5 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061938.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN061938.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN061938.D (-3205) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

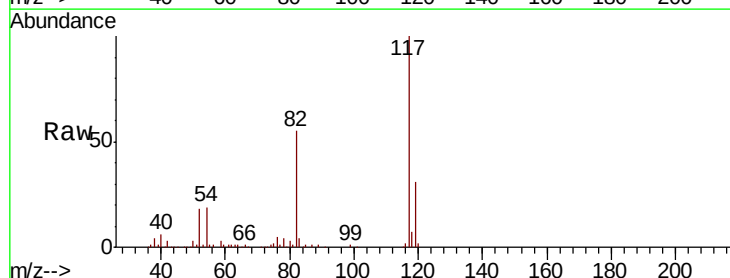
Tgt Ion: 117 Resp: 270336

Ion Ratio Lower Upper

117 100

82 54.7 42.6 64.0

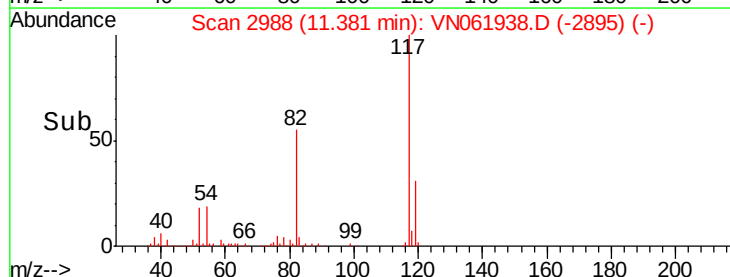
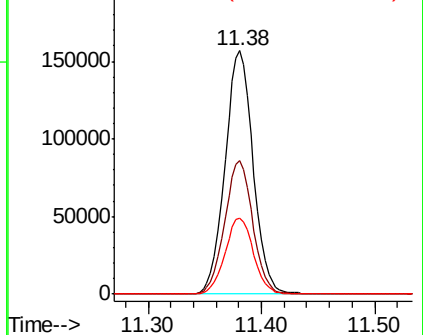
119 31.4 24.7 37.1

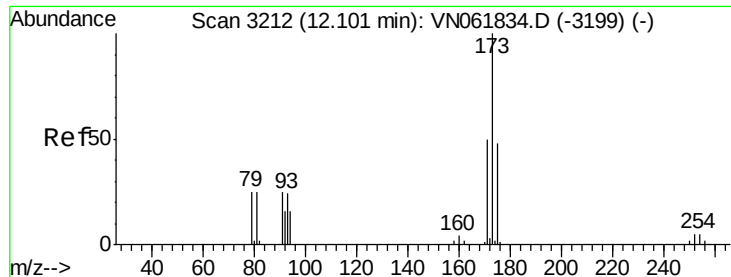


Abundance Ion 116.90 (116.60 to 117.60): VN061938.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061938.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061938.D (-2895) (-)





#71

Bromoform

Concen: 0.386 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

HD-01-061720

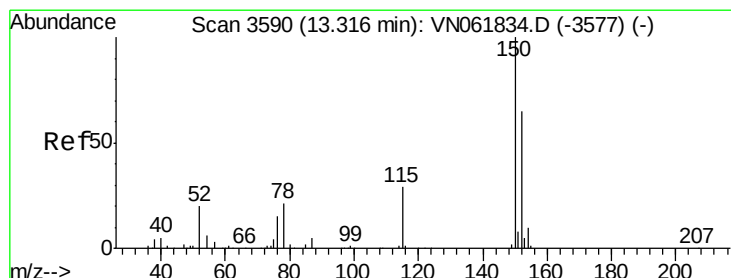
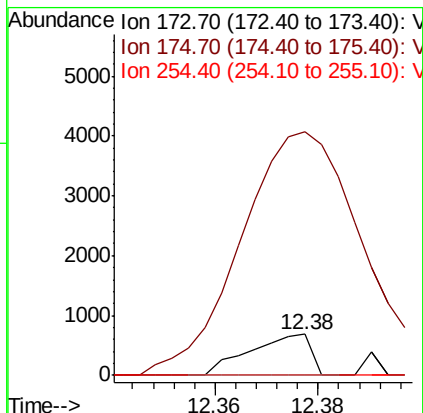
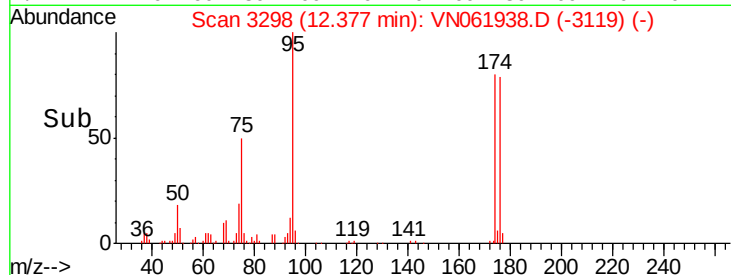
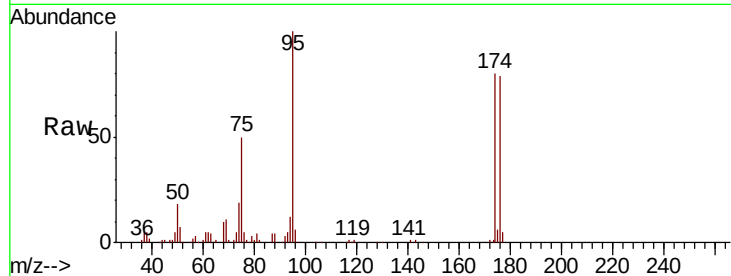
Tot Ion:173 Resp: 560

Ion Ratio Lower Upper

173 100

175 1017.3 23.9 71.7#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

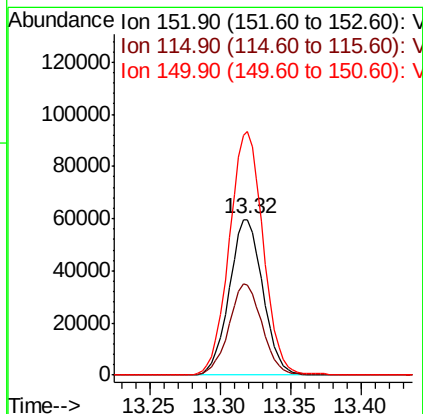
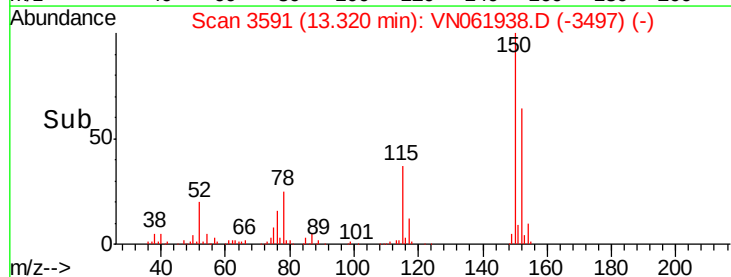
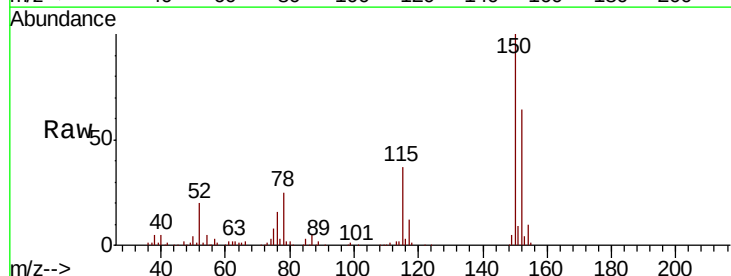
Tgt Ion:152 Resp: 99776

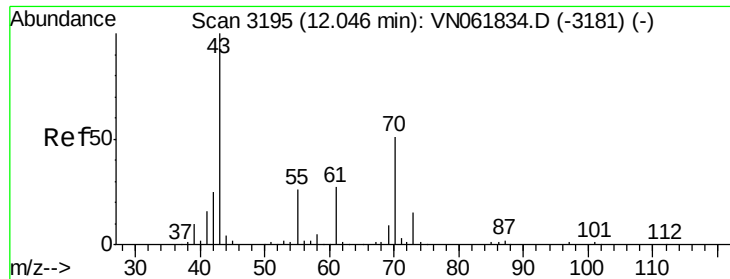
Ion Ratio Lower Upper

152 100

115 57.5 29.1 87.3

150 157.5 0.0 347.6





#74

N-amvl acetate

Concen: 3.618 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampled :

HD-01-061720

Tot Ion: 43 Resp: 1514

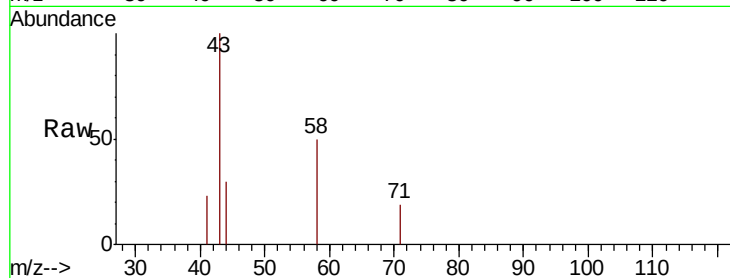
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

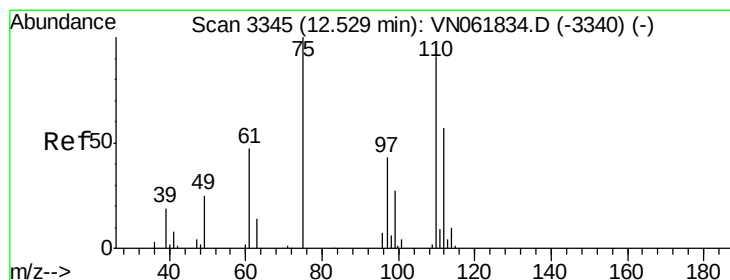
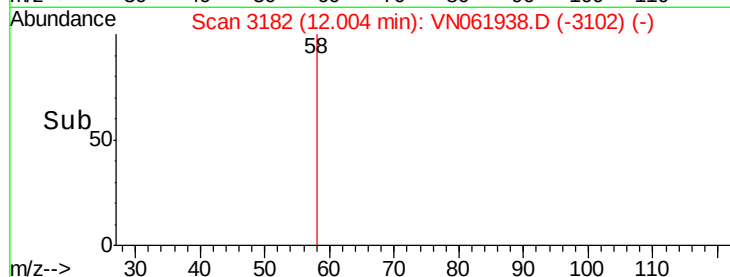
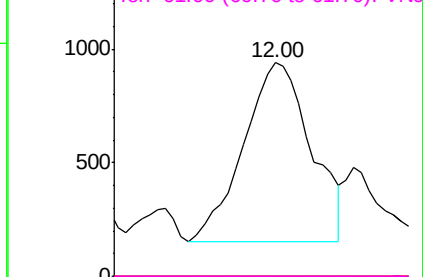


Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-3181) (-)

Ion 70.00 (69.70 to 70.70): VN061834.D (-3181) (-)

Ion 55.00 (54.70 to 55.70): VN061834.D (-3181) (-)

Ion 61.00 (60.70 to 61.70): VN061834.D (-3181) (-)



#76

1,2,3-Trichloropropane

Concen: 28.706 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061938.D

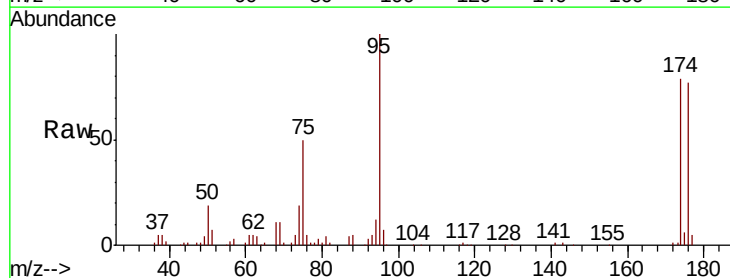
Acq: 19 Jun 2020 7:42

Tgt Ion: 75 Resp: 56231

Ion Ratio Lower Upper

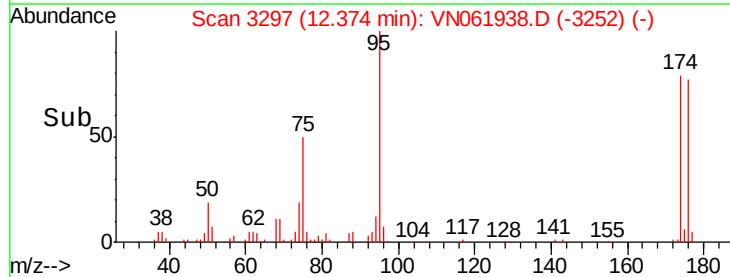
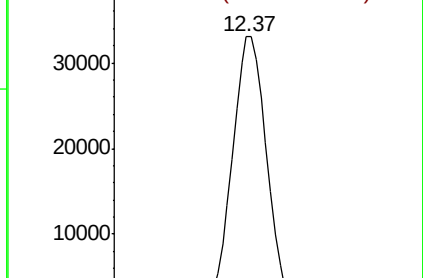
75 100

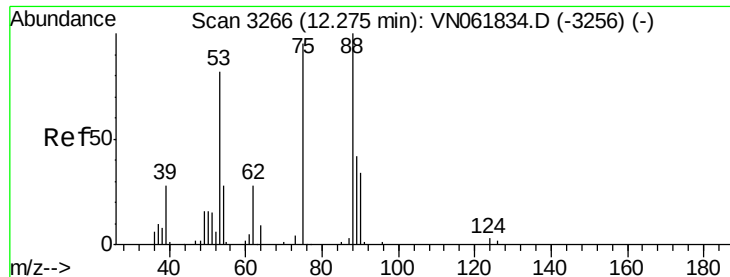
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061834.D (-3340) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 78.294 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

Instrument :

MSVOA_N

ClientSampleId :

HD-01-061720

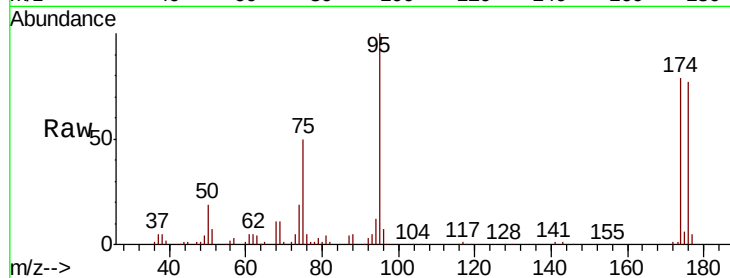
Tot Ion: 75 Resp: 56231

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

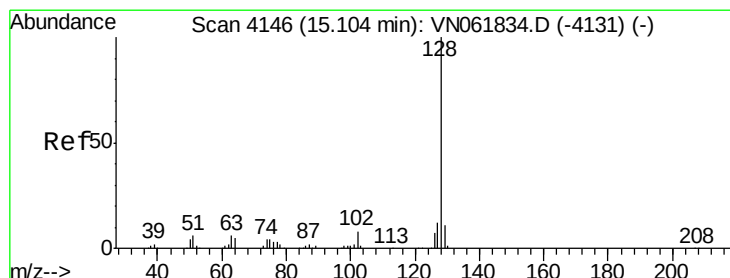
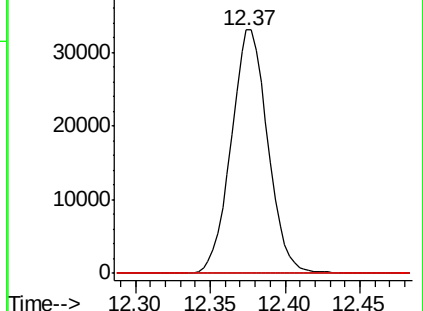
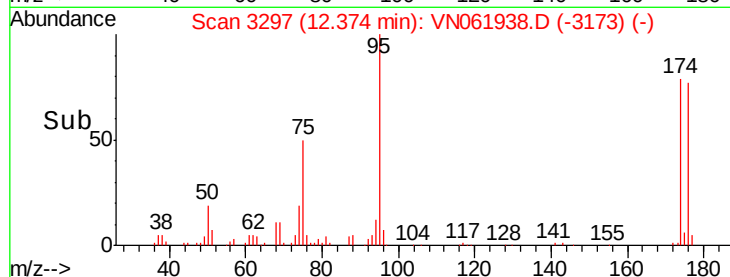
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061834.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061834.D (-3256) (-)



#95

Naphthalene

Concen: 3.783 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN061938.D

Acq: 19 Jun 2020 7:42

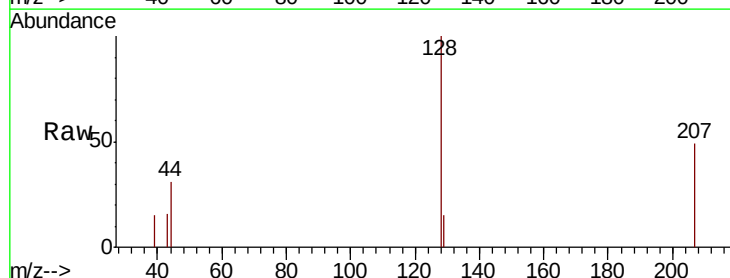
Tgt Ion: 128 Resp: 1601

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 1.8 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN061834.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN061834.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN061834.D (-4131) (-)

