

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060420\
 Data File : VN061654.D
 Acq On : 4 Jun 2020 15:37
 Operator : JC/MD
 Sample : L2814-13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 05 07:29:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	307171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	534823	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	542555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	255361	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	176097	48.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.24%	
35) Dibromofluoromethane	7.55	113	147077	54.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.42%	
50) Toluene-d8	10.06	98	647722	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
62) 4-Bromofluorobenzene	12.38	95	249130	54.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.62%	

Target Compounds

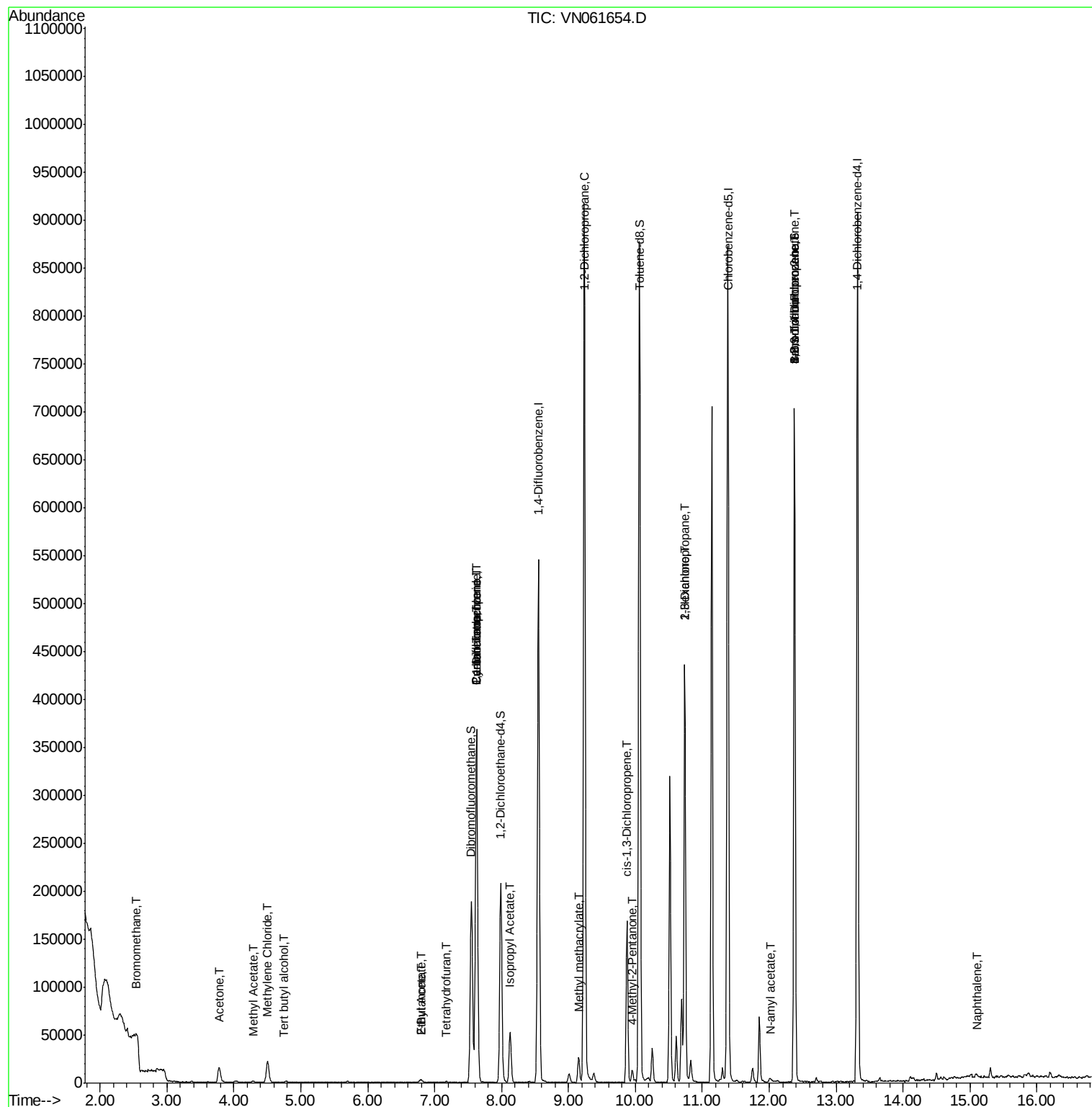
						Qvalue
5) Bromomethane	2.55	94	742	0.252	ug/l #	52
11) Tert butyl alcohol	4.73	59	750	1.541	ug/l #	72
16) Acetone	3.78	43	26981	21.072	ug/l	99
18) Methyl Acetate	4.28	43	2318	0.700	ug/l #	66
20) Methylene Chloride	4.51	84	17737	3.722	ug/l	95
25) 2-Butanone	6.80	43	4696	2.707	ug/l	94
29) Tetrahydrofuran	7.18	42	784	0.685	ug/l #	65
31) Cyclohexane	7.63	56	5638	1.093	ug/l #	16
36) 1,1-Dichloropropene	7.63	75	21357	4.511	ug/l #	49
37) Ethyl Acetate	6.80	43	4696	1.231	ug/l #	66
38) Carbon Tetrachloride	7.63	117	30530	6.685	ug/l #	16
43) Isopropyl Acetate	8.13	43	61238	8.926	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1246	0.359	ug/l #	44
48) Methyl methacrylate	9.15	41	3405	1.103	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	8572	2.217	ug/l	96
54) cis-1,3-Dichloropropene	9.88	75	34323	5.622	ug/l #	59
57) 1,3-Dichloropropane	10.73	76	4997	0.822	ug/l #	42
59) 2-Hexanone	10.74	43	56519	20.356	ug/l #	49
71) Bromoform	12.38	173	1917	0.592	ug/l #	1
74) N-amyl acetate	12.00	43	2761	0.470	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	119507	25.737	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119507	65.816	ug/l #	15
95) Naphthalene	15.11	128	3326	0.232	ug/l #	90

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

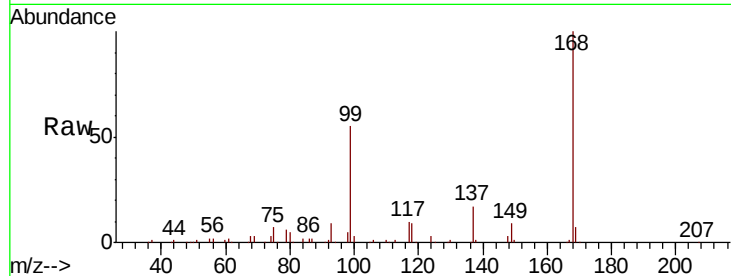
ClientSampled :

Tot Ion:168 Resp: 307171

Ion Ratio Lower Upper

168 100

99 54.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

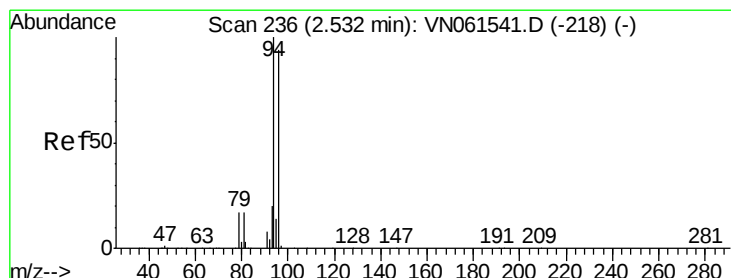
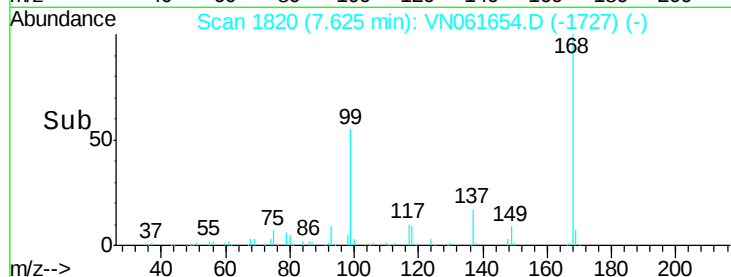
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.252 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN061654.D

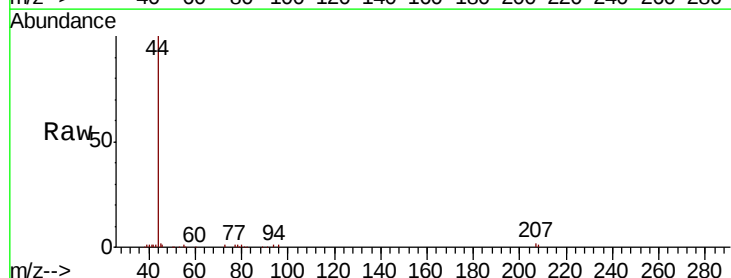
Acq: 4 Jun 2020 15:37

Tgt Ion: 94 Resp: 742

Ion Ratio Lower Upper

94 100

96 47.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

400

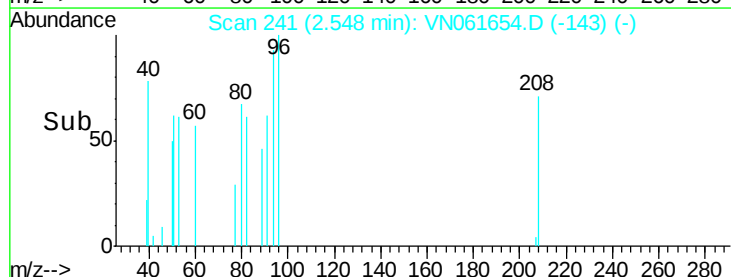
300

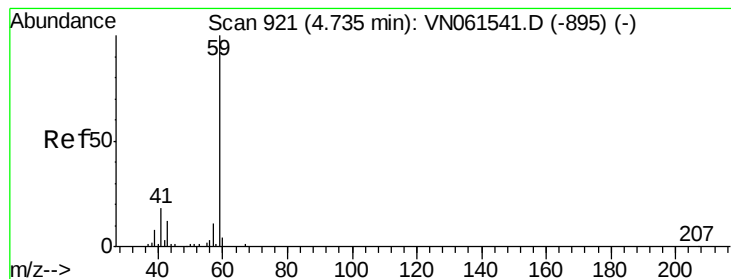
200

100

0

Time--> 2.50 2.55



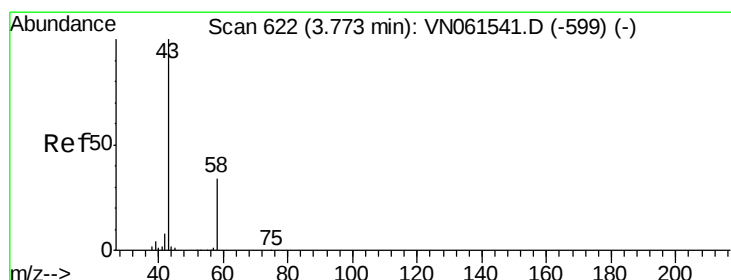
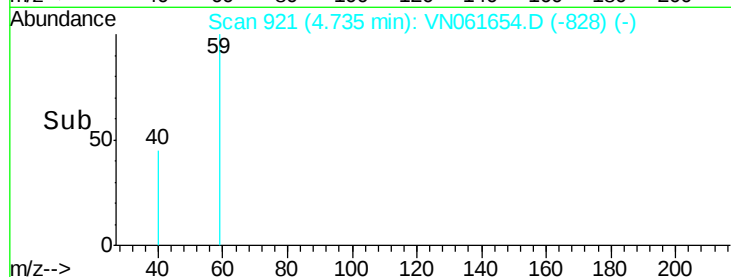
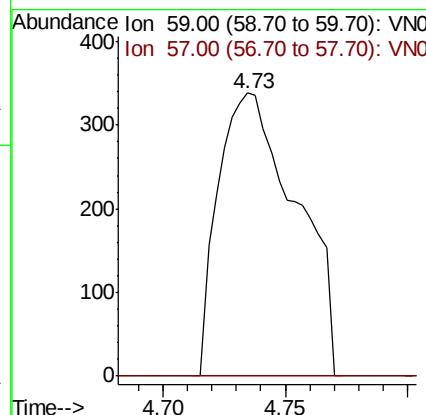
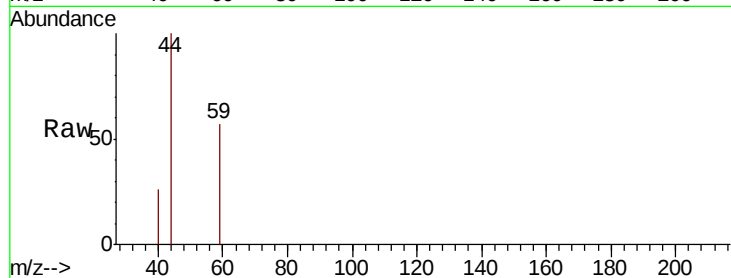


#11

Tert butyl alcohol
 Concen: 1.541 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Instrument :
 MSVOA_N
 ClientSampleId :

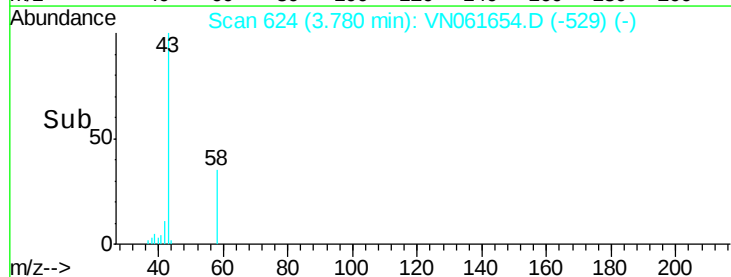
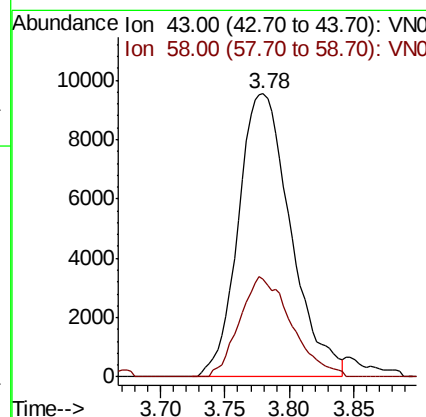
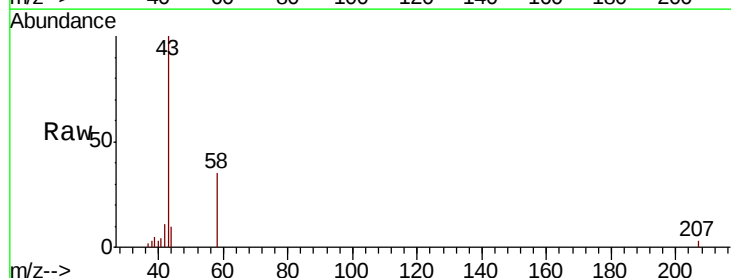
Tot Ion: 59 Resp: 750
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

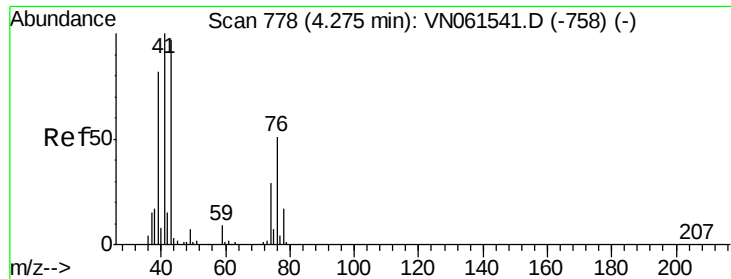


#16

Acetone
 Concen: 21.072 ug/l
 RT: 3.78 min Scan# 624
 Delta R.T. 0.01 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Tgt Ion: 43 Resp: 26981
 Ion Ratio Lower Upper
 43 100
 58 34.8 27.2 40.8

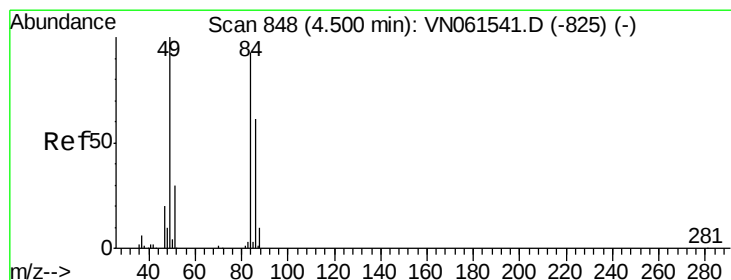
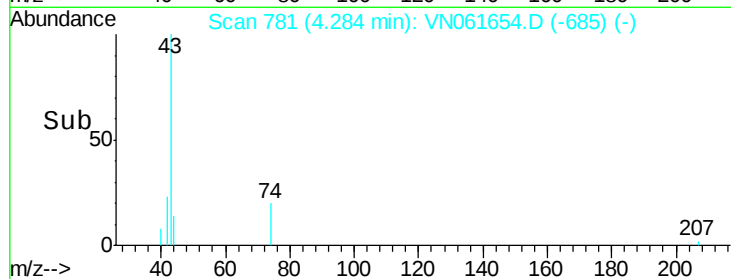
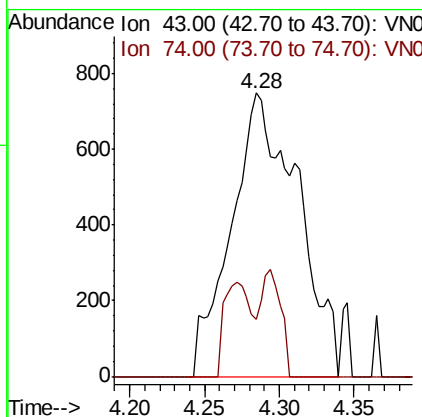
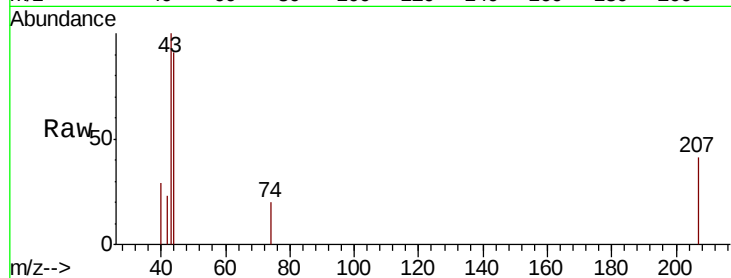




#18
Methyl Acetate
Concen: 0.700 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

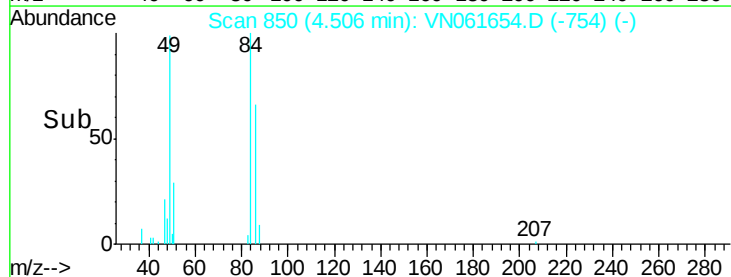
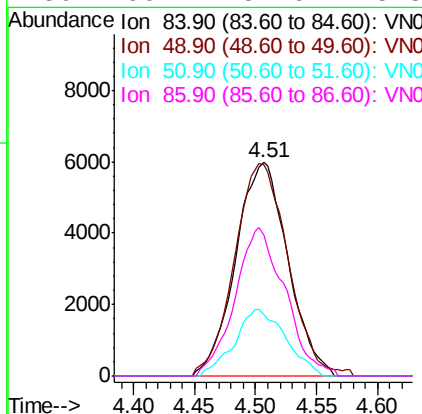
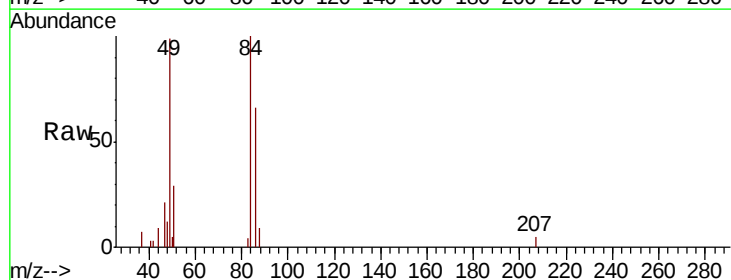
Instrument :
MSVOA_N
ClientSampled :

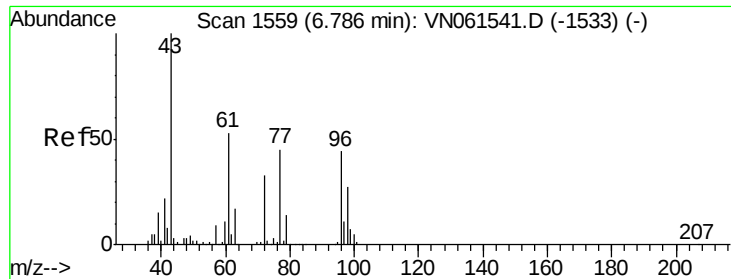
Tot Ion: 43 Resp: 2318
Ion Ratio Lower Upper
43 100
74 11.0 23.2 34.8#



#20
Methylene Chloride
Concen: 3.722 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

Tgt Ion: 84 Resp: 17737
Ion Ratio Lower Upper
84 100
49 99.1 85.8 128.8
51 28.8 26.2 39.2
86 66.1 52.6 78.8

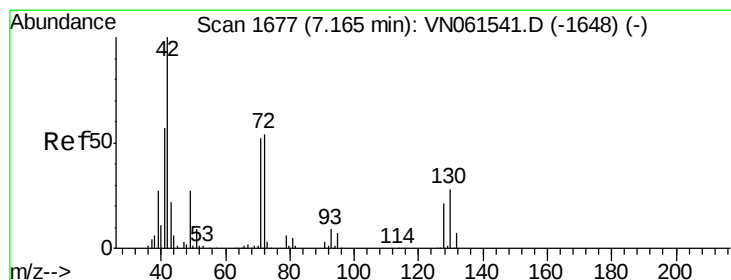
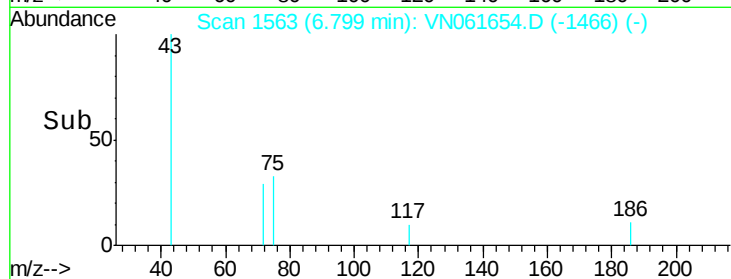
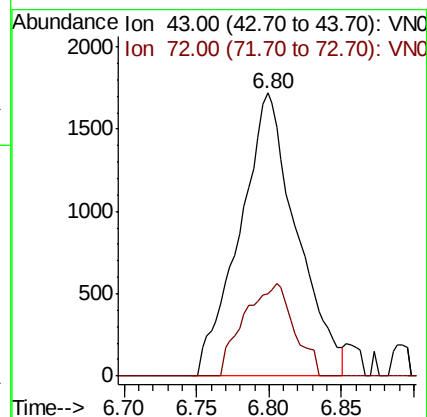
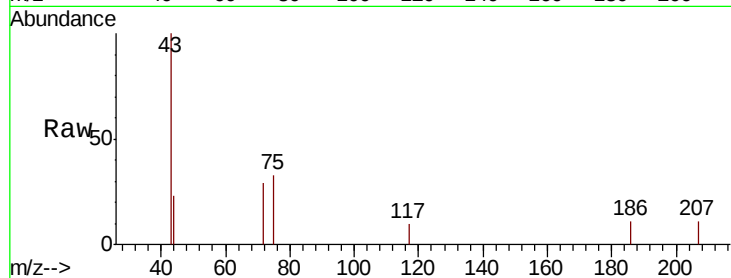




#25
2-Butanone
Concen: 2.707 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

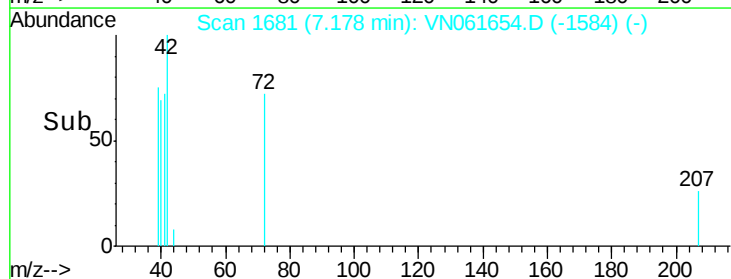
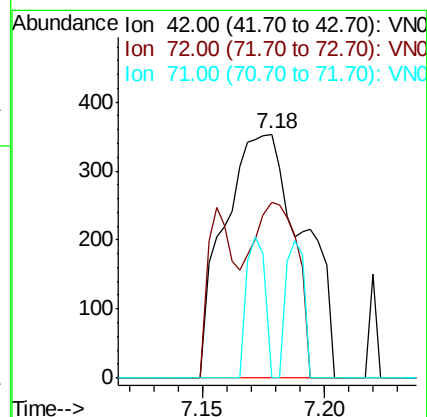
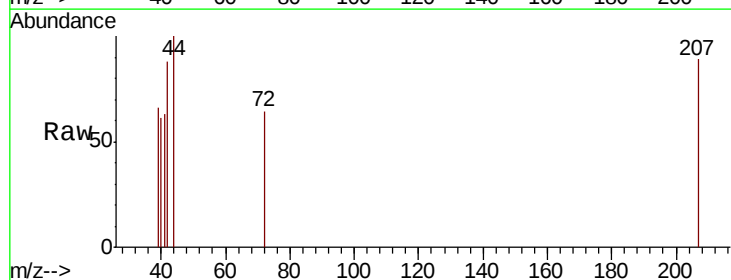
Instrument :
MSVOA_N
ClientSampled :

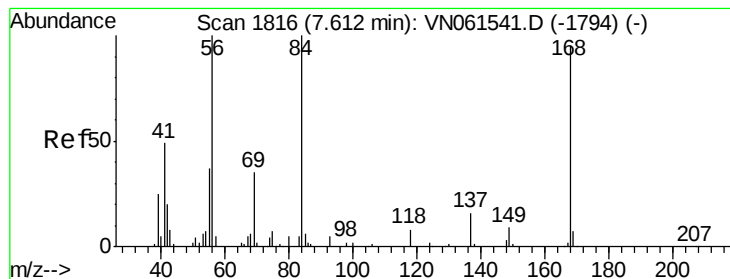
Tot Ion: 43 Resp: 4696
Ion Ratio Lower Upper
43 100
72 29.2 26.0 39.0



#29
Tetrahydrofuran
Concen: 0.685 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

Tgt Ion: 42 Resp: 784
Ion Ratio Lower Upper
42 100
72 42.2 43.6 65.4#
71 13.6 41.2 61.8#





#31

Cyclohexane

Concen: 1.093 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

ClientSampled :

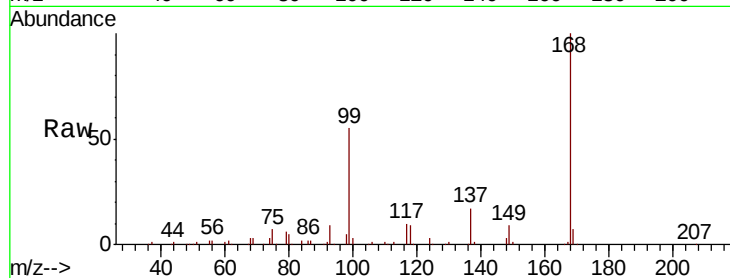
Tot Ion: 56 Resp: 5638

Ion Ratio Lower Upper

56 100

69 171.5 27.8 41.8#

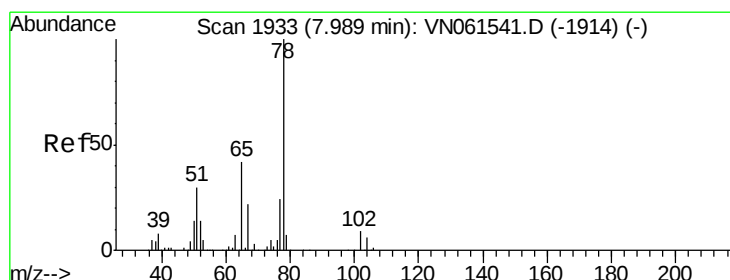
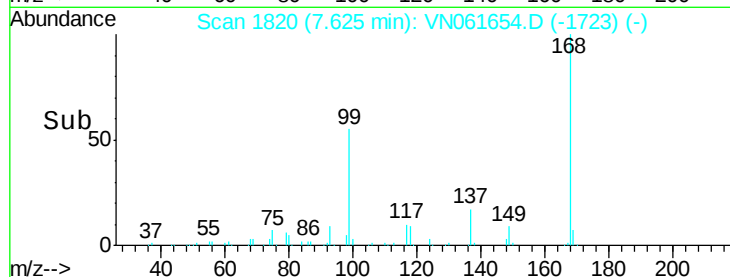
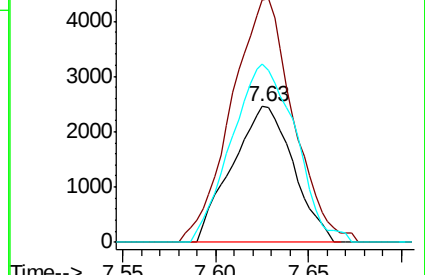
84 131.5 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061654.D (-1794) (-)

Ion 69.00 (68.70 to 69.70): VN061654.D (-1794) (-)

Ion 84.00 (83.70 to 84.70): VN061654.D (-1794) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.117 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061654.D

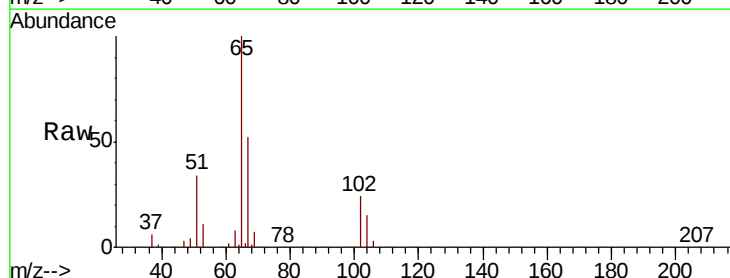
Acq: 4 Jun 2020 15:37

Tgt Ion: 65 Resp: 176097

Ion Ratio Lower Upper

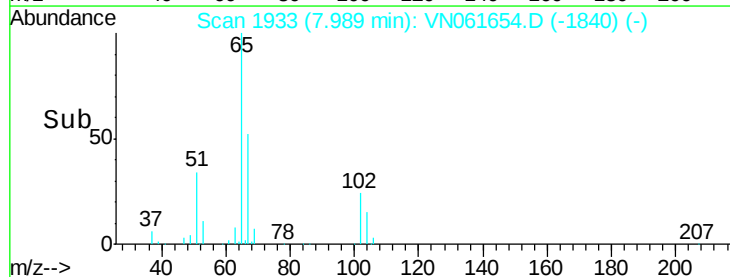
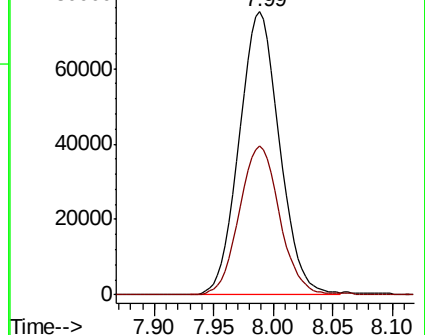
65 100

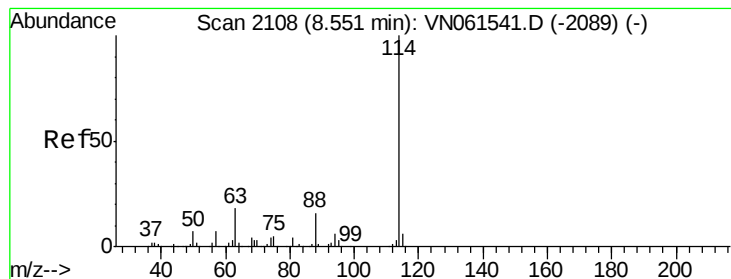
67 52.8 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061654.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061654.D (-1840) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

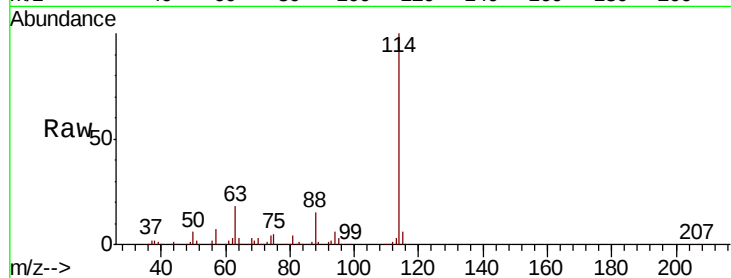
Tot Ion:114 Resp: 534823

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.8

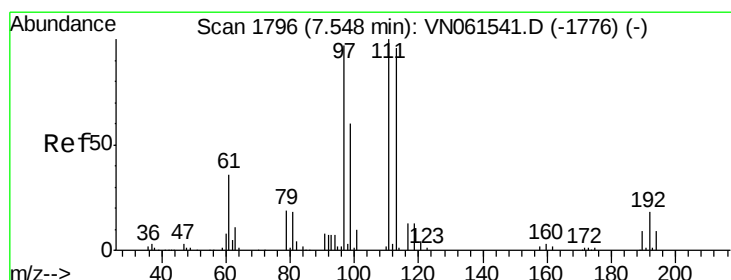
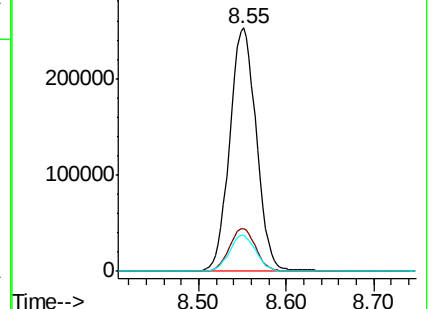
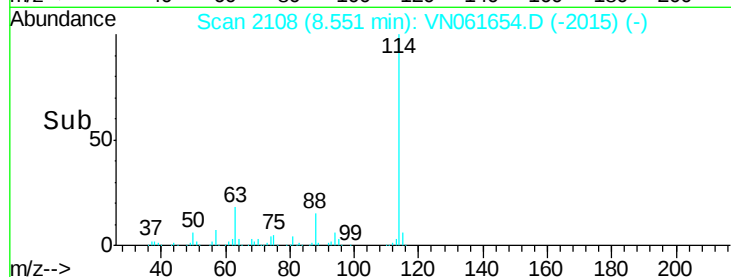
88 14.8 0.0 31.0



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: 54.211 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

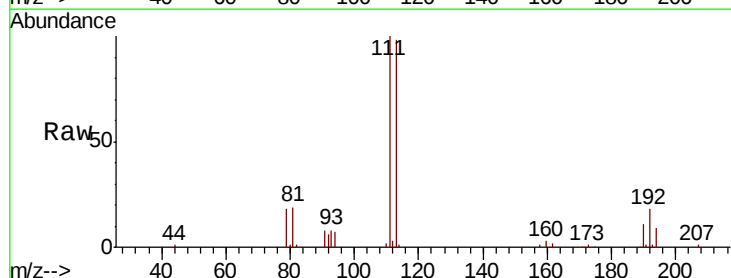
Tgt Ion:113 Resp: 147077

Ion Ratio Lower Upper

113 100

111 102.7 83.4 125.0

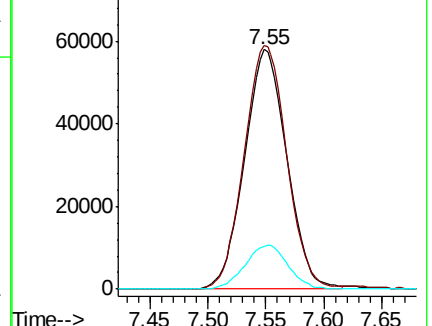
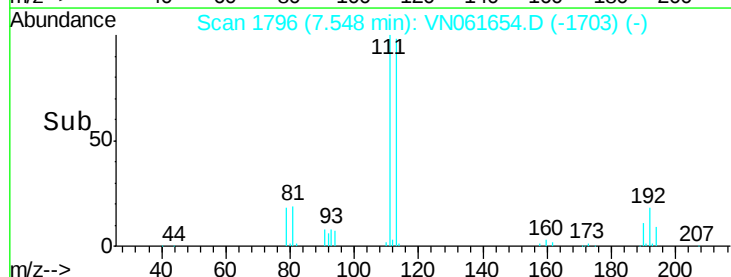
192 18.7 15.4 23.2

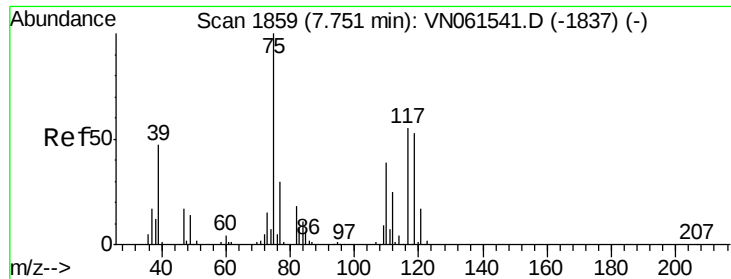


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

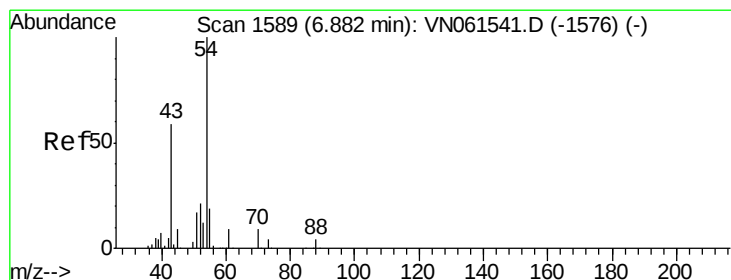
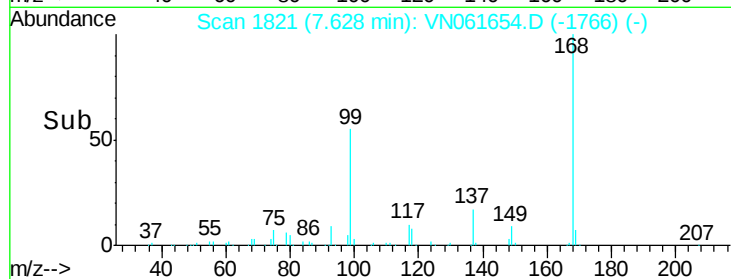
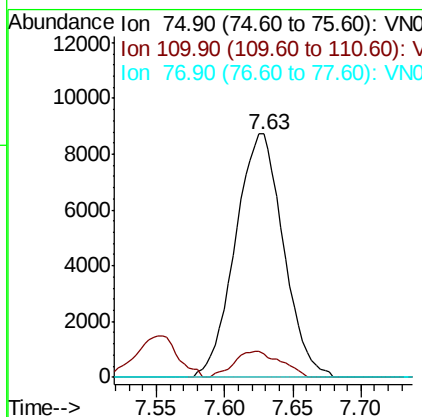
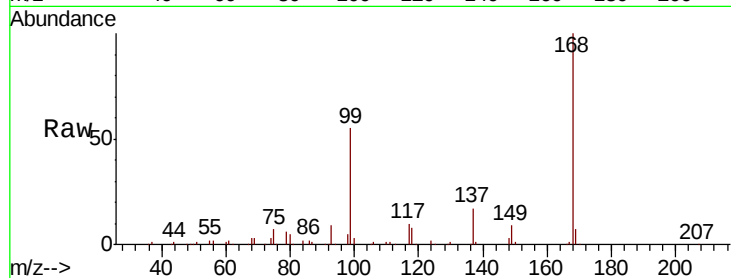




#36
 1,1-Dichloropropene
 Concen: 4.511 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

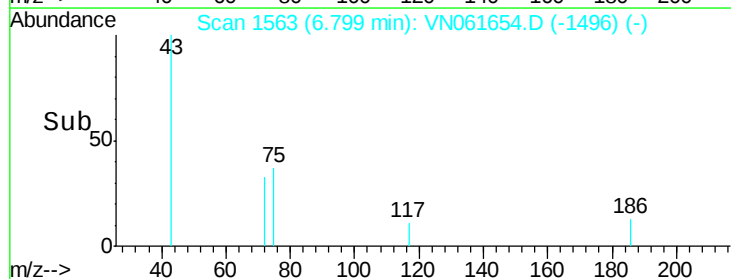
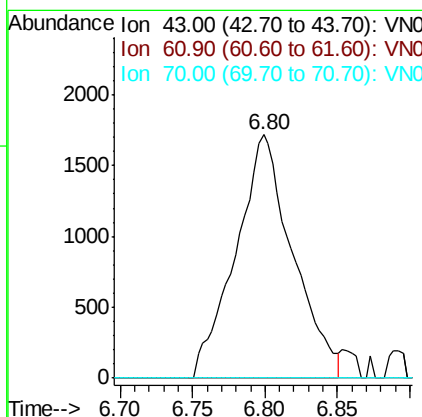
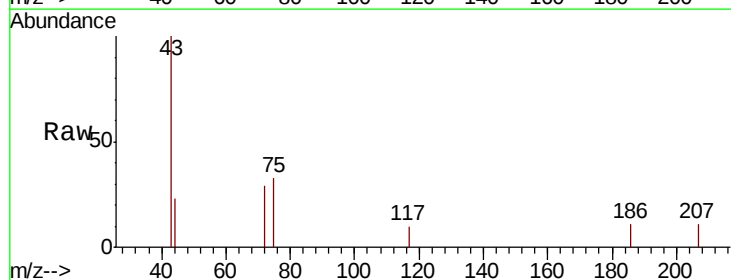
Instrument :
 MSVOA_N
 ClientSampleId :

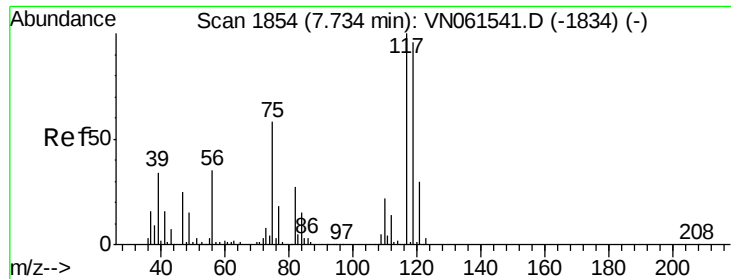
Tot Ion: 75 Resp: 21357
 Ion Ratio Lower Upper
 75 100
 110 10.4 19.5 58.5#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 1.231 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.08 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Tgt Ion: 43 Resp: 4696
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.2 18.4#
 70 0.0 9.4 14.2#





#38

Carbon Tetrachloride

Concen: 6.685 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

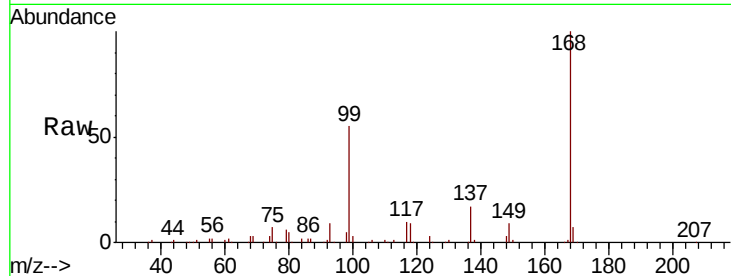
Tot Ion:117 Resp: 30530

Ion Ratio Lower Upper

117 100

119 4.6 76.5 114.7#

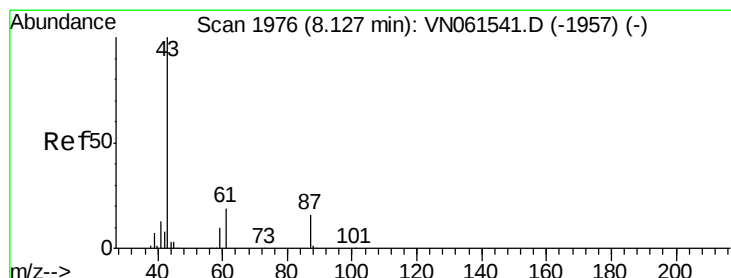
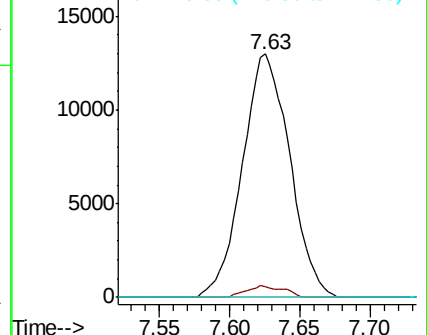
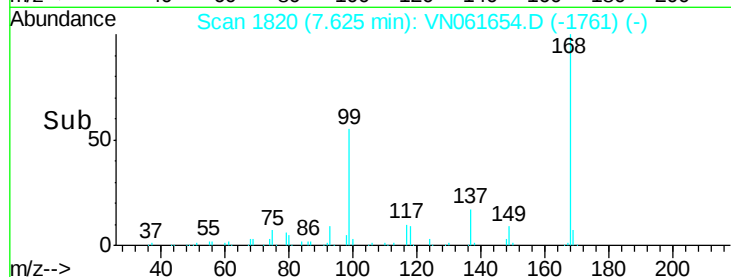
121 0.0 24.1 36.1#



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: 8.926 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

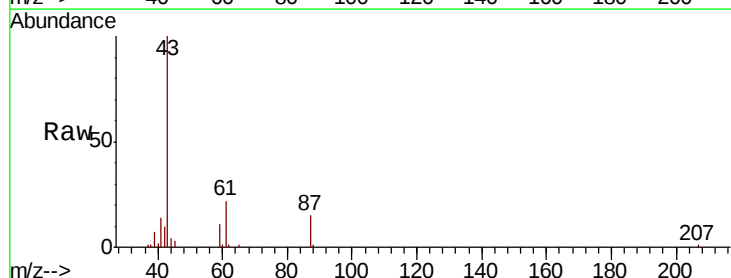
Tgt Ion: 43 Resp: 61238

Ion Ratio Lower Upper

43 100

61 21.2 23.6 35.4#

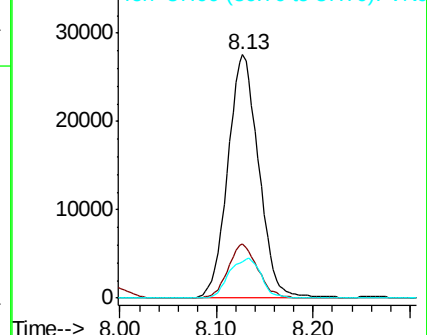
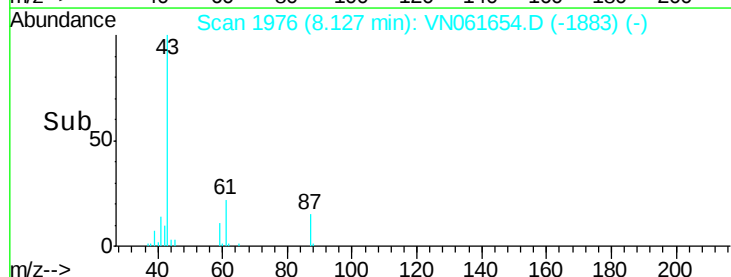
87 16.8 13.0 19.6

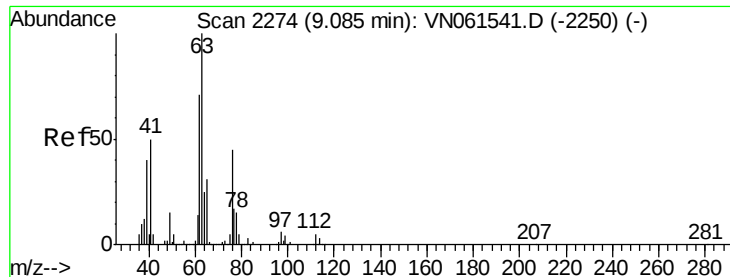


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

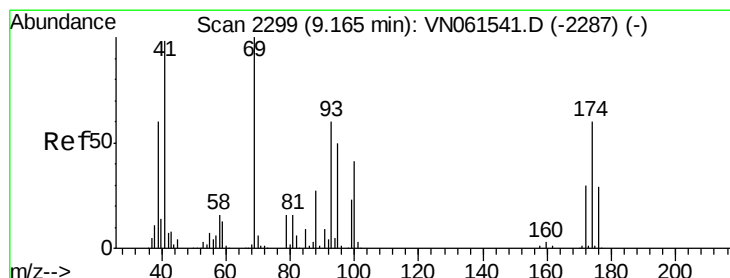
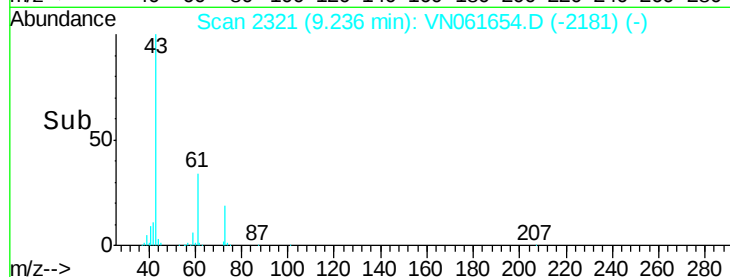
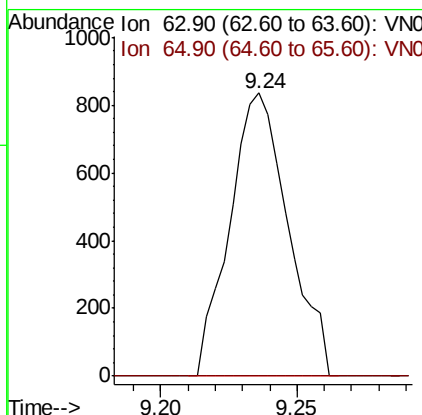
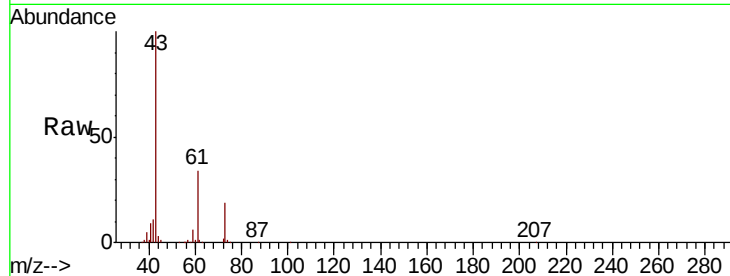




#45
 1,2-Dichloropropane
 Concen: 0.359 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

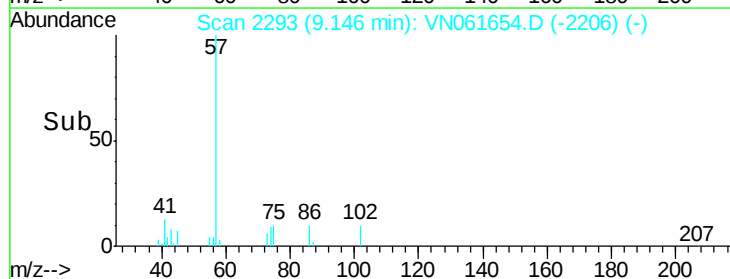
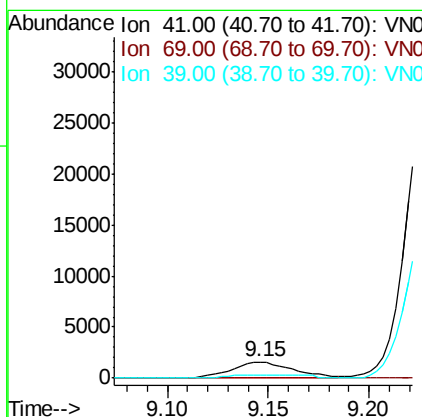
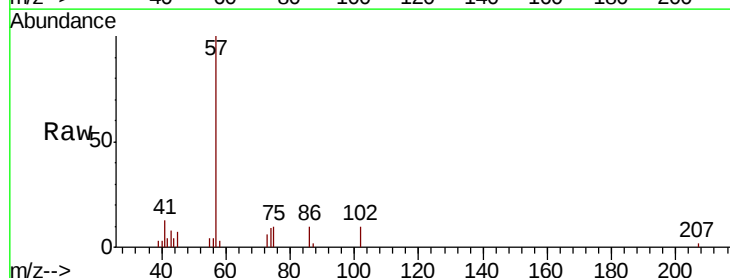
Instrument :
 MSVOA_N
 ClientSampled :

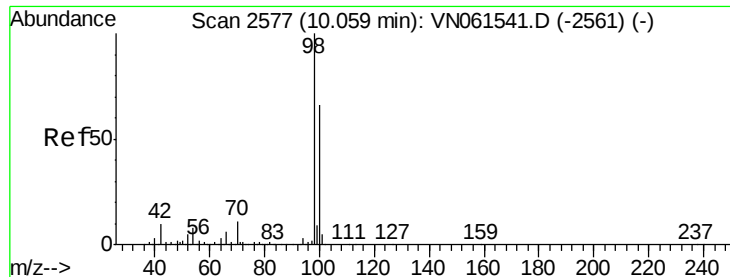
Tot Ion: 63 Resp: 1246
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 1.103 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Tgt Ion: 41 Resp: 3405
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.9 125.9#
 39 0.0 52.1 78.1#





#50

Toluene-d8

Concen: 51.518 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

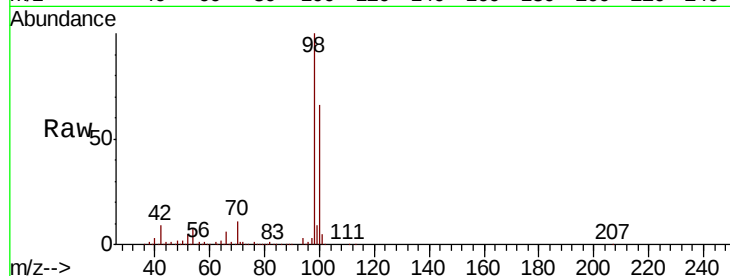
ClientSampled :

Tot Ion: 98 Resp: 647722

Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

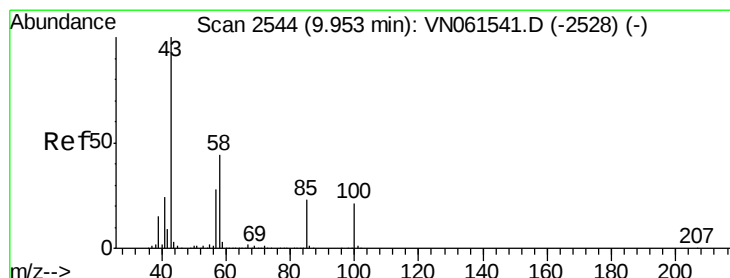
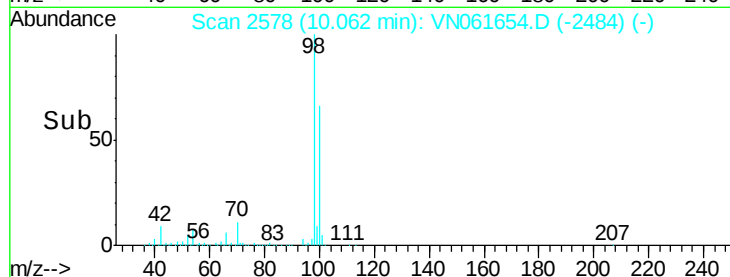
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.217 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061654.D

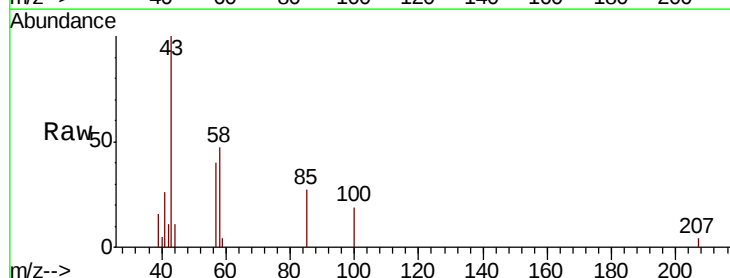
Acq: 4 Jun 2020 15:37

Tgt Ion: 43 Resp: 8572

Ion Ratio Lower Upper

43 100

58 46.2 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

25000

20000

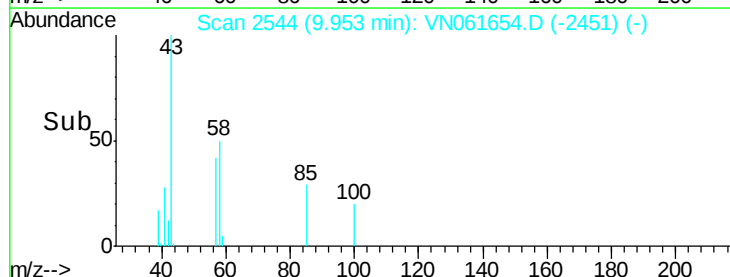
15000

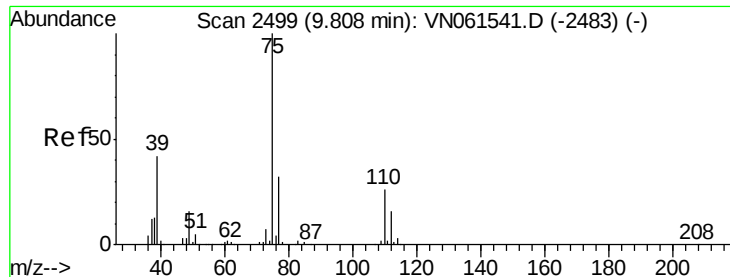
10000

5000

0

Time-->



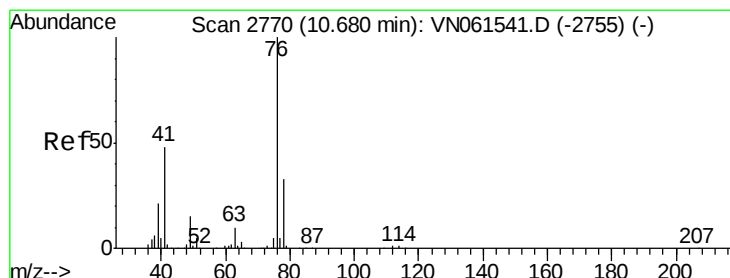
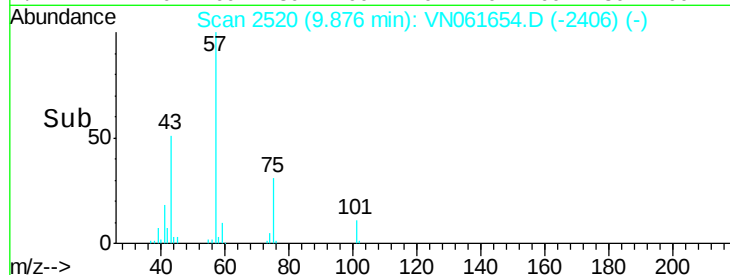
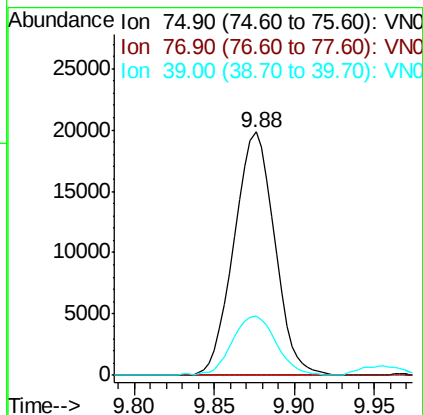
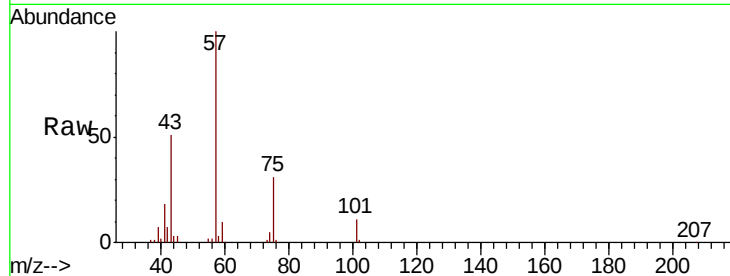


#54

cis-1,3-Dichloropropene
 Concen: 5.622 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Instrument :
 MSVOA_N
 ClientSampled :

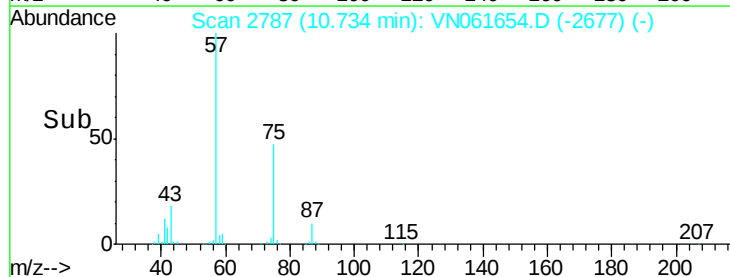
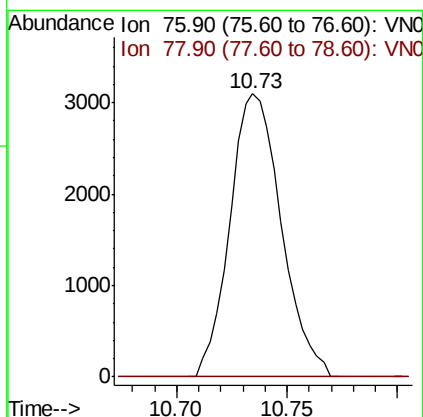
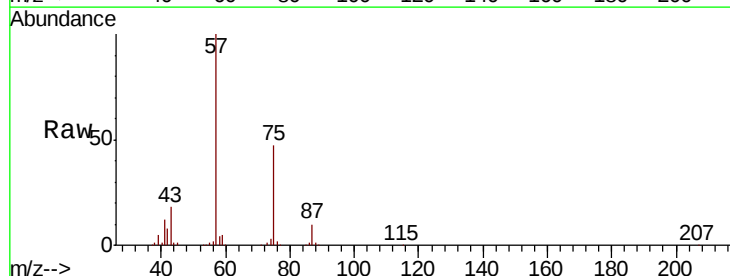
Tot Ion: 75 Resp: 34323
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 24.2 33.8 50.6#

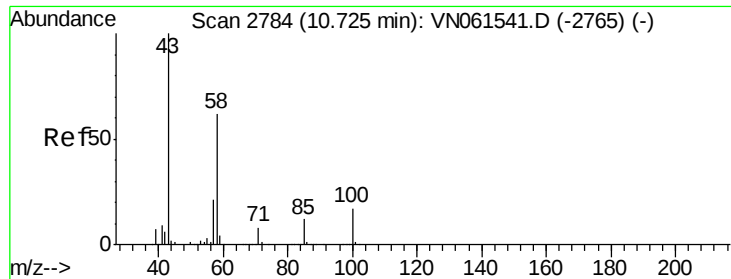


#57

1,3-Dichloropropane
 Concen: 0.822 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN061654.D
 Acq: 4 Jun 2020 15:37

Tgt Ion: 76 Resp: 4997
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

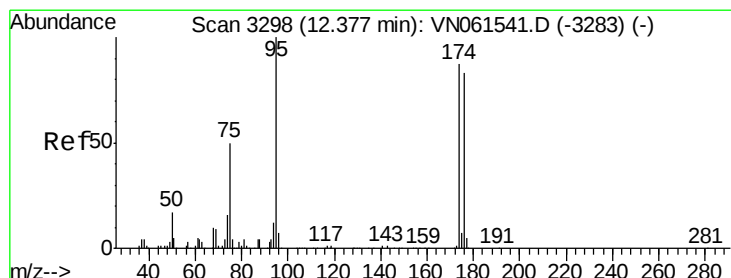
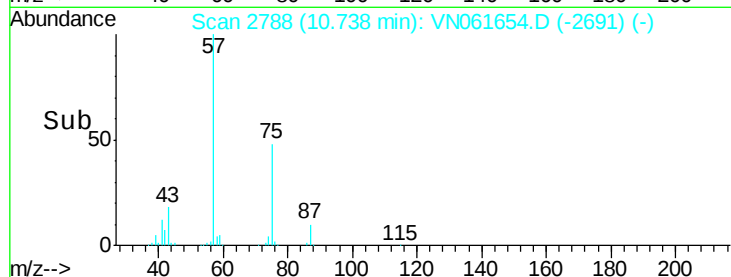
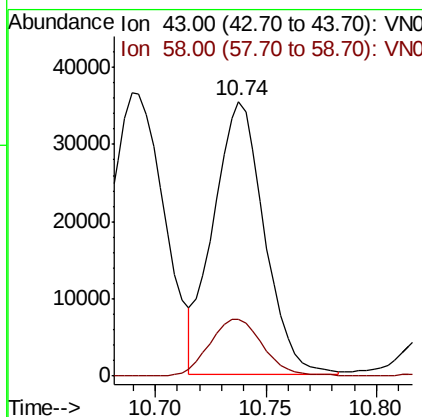
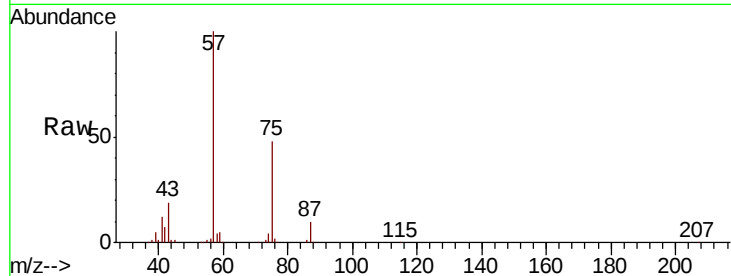




#59
2-Hexanone
Concen: 20.356 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

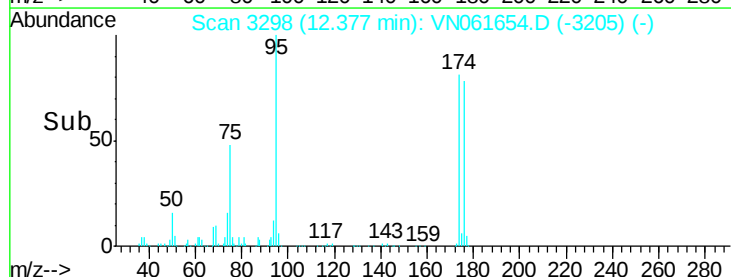
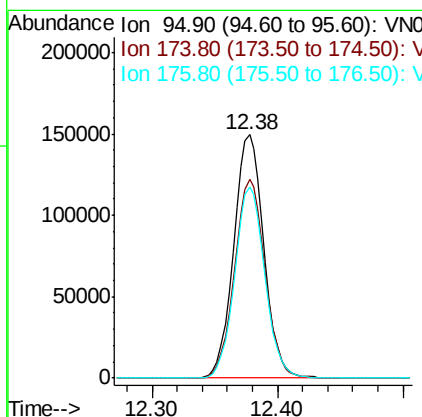
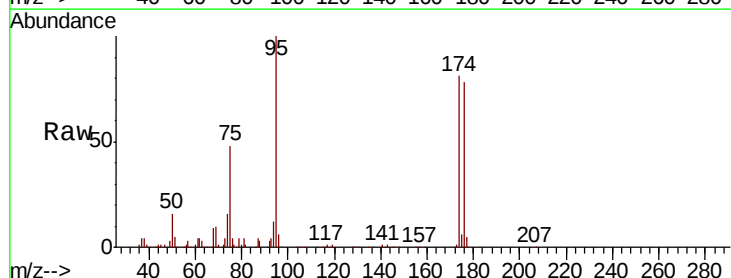
Instrument :
MSVOA_N
ClientSampled :

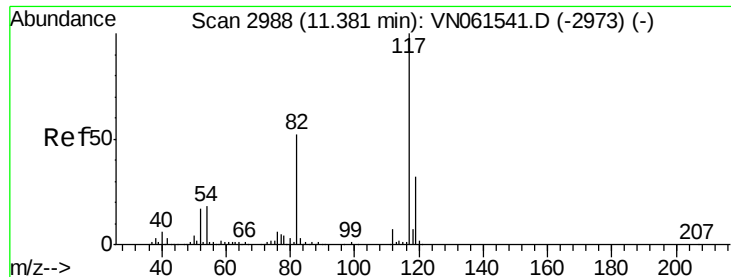
Tot Ion: 43 Resp: 56519
Ion Ratio Lower Upper
43 100
58 22.1 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 54.313 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

Tgt Ion: 95 Resp: 249130
Ion Ratio Lower Upper
95 100
174 82.7 0.0 172.8
176 78.7 0.0 164.8

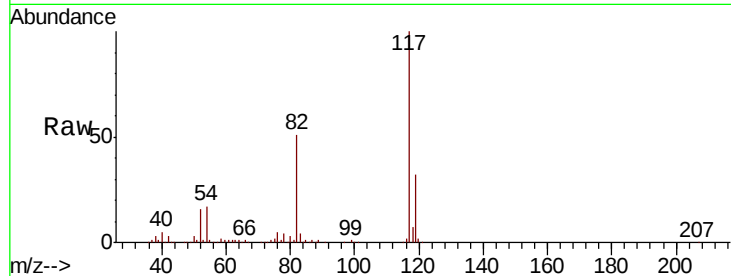




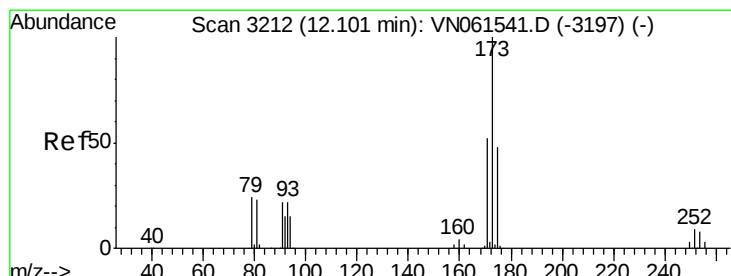
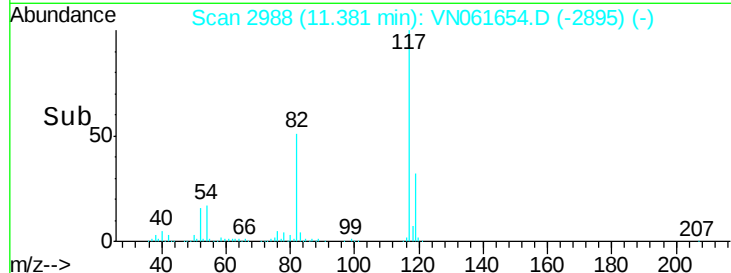
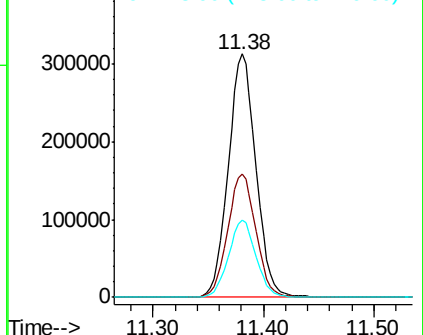
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 542555
Ion Ratio Lower Upper
117 100
82 50.6 41.5 62.3
119 31.7 25.6 38.4

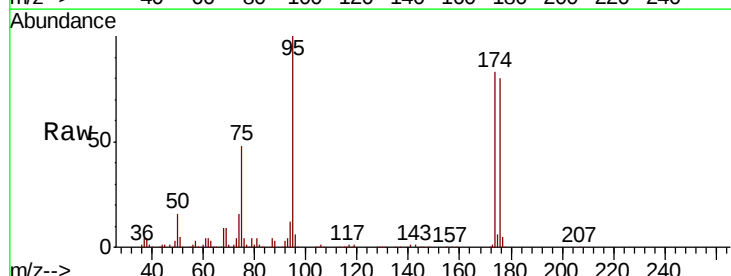


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

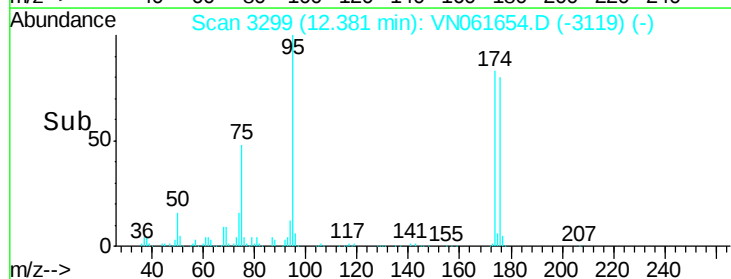
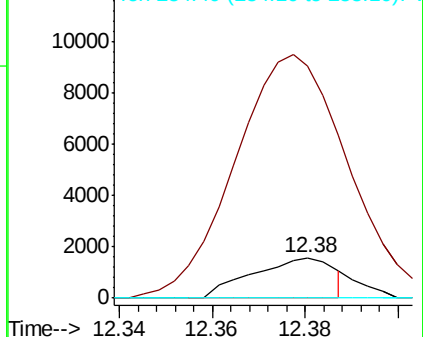


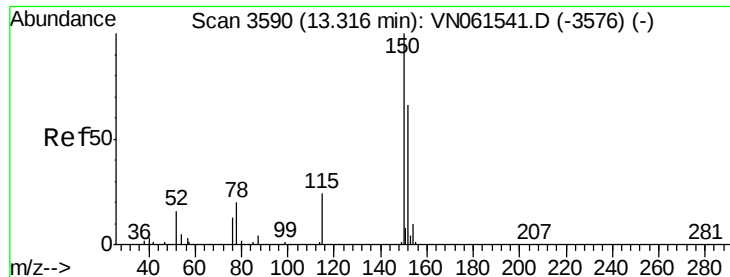
#71
Bromoform
Concen: 0.592 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061654.D
Acq: 4 Jun 2020 15:37

Tgt Ion:173 Resp: 1917
Ion Ratio Lower Upper
173 100
175 709.3 24.4 73.2#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

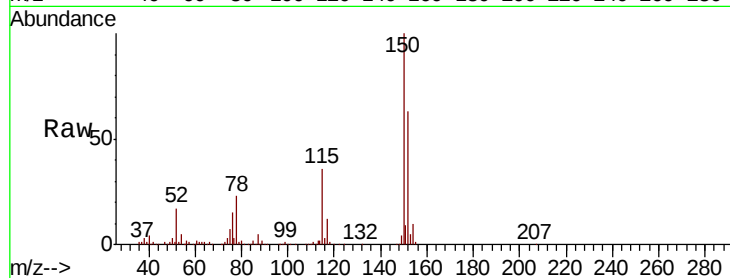
Tot Ion:152 Resp: 255361

Ion Ratio Lower Upper

152 100

115 57.3 28.0 84.0

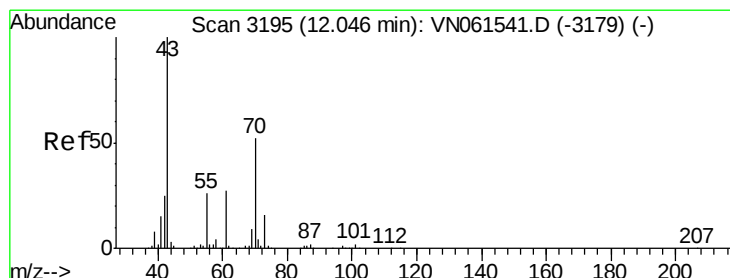
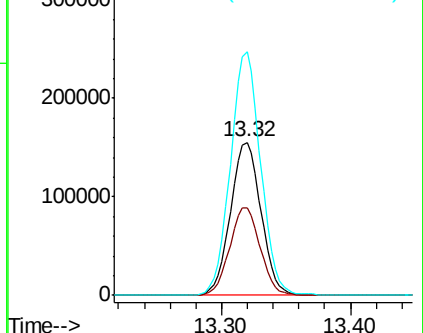
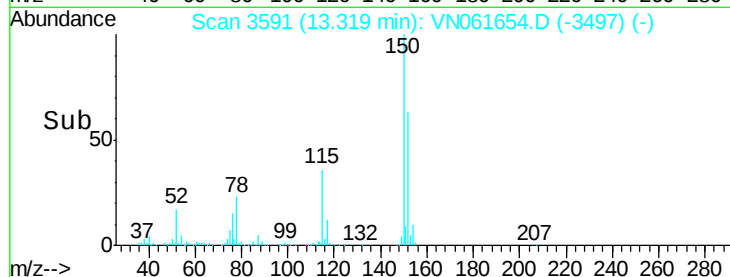
150 157.8 0.0 344.0



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: 0.470 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Tgt Ion: 43 Resp: 2761

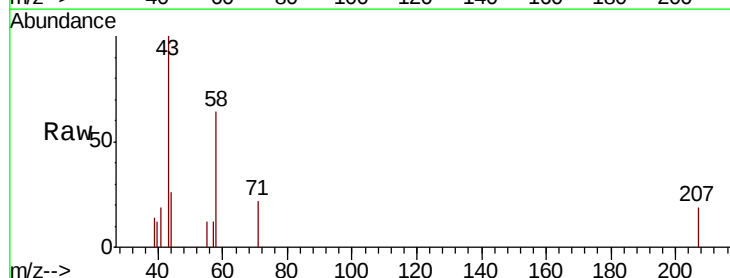
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 5.0 20.6 31.0#

61 0.0 21.8 32.6#

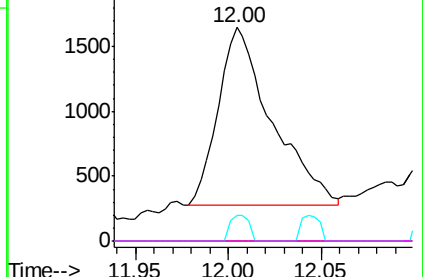
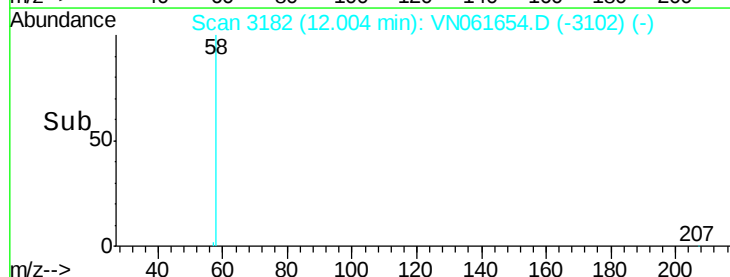


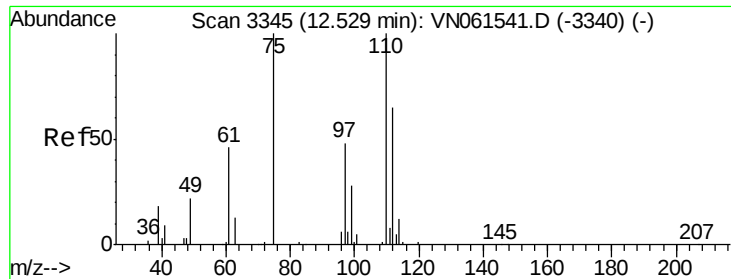
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 25.737 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

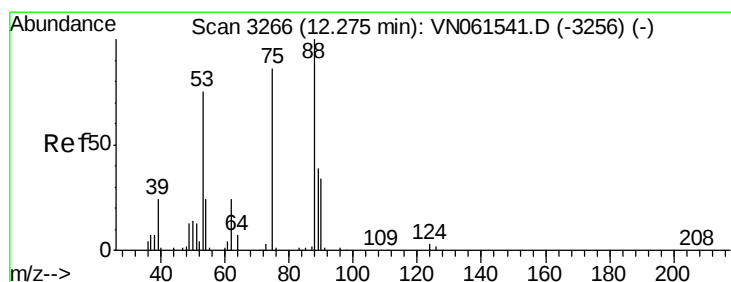
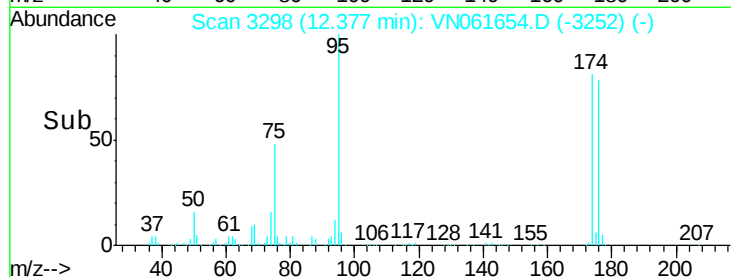
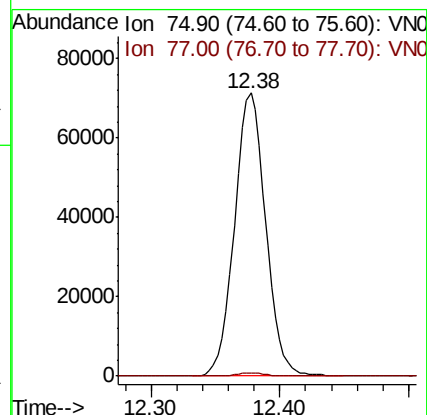
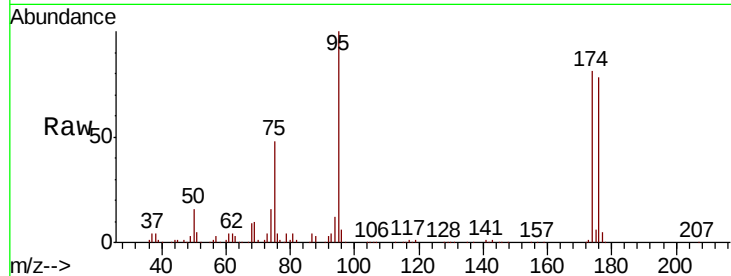
ClientSampleId :

Tot Ion: 75 Resp: 119507

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.816 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

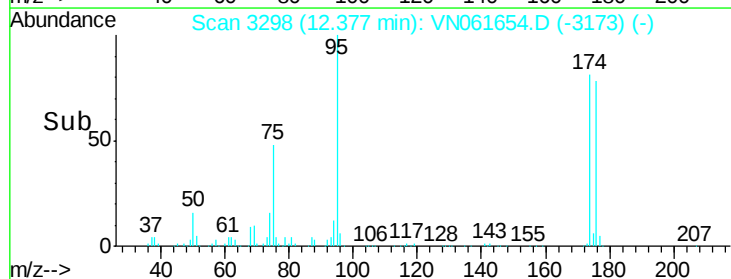
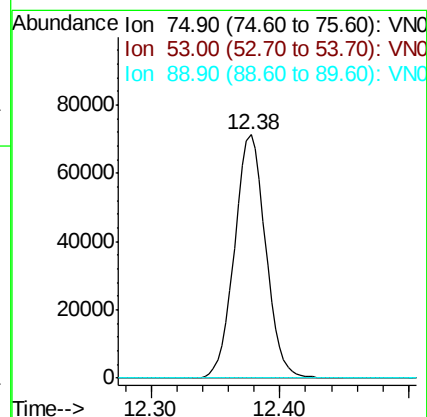
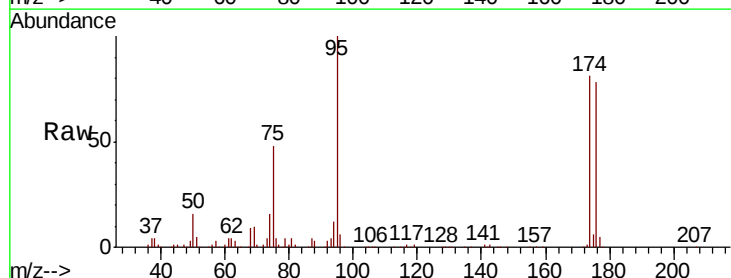
Tgt Ion: 75 Resp: 119507

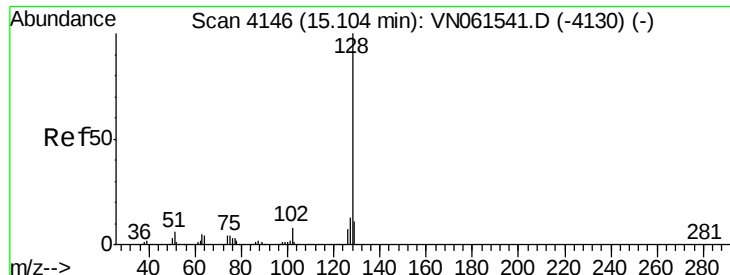
Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#





#95

Naphthalene

Concen: 0.232 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

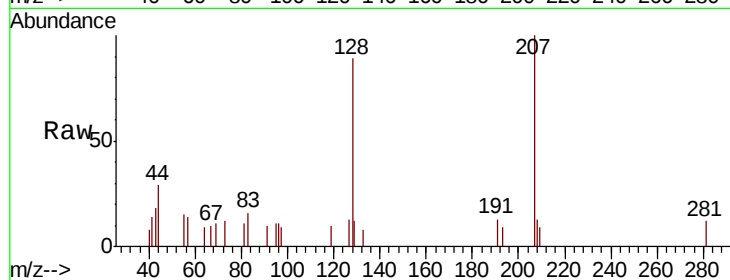
Lab File: VN061654.D

Acq: 4 Jun 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :



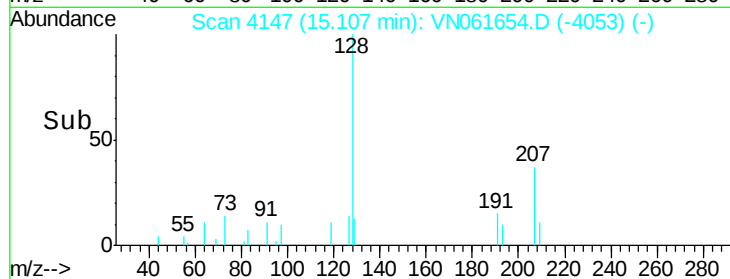
Tot Ion:128 Resp: 3326

Ion Ratio Lower Upper

128 100

127 6.9 10.0 15.0#

129 8.4 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

