

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072820\
 Data File : VN062634.D
 Acq On : 28 Jul 2020 16:19
 Operator : JC/MD
 Sample : PB130523ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 29 04:27:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	165757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	296461	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	272466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	112588	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	138489	53.78	ug/l	0.00
Spiked Amount			Recovery	=	107.56%	
35) Dibromofluoromethane	7.55	113	97661	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	10.06	98	392508	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.38	95	128901	45.37	ug/l	0.00
Spiked Amount			Recovery	=	90.74%	

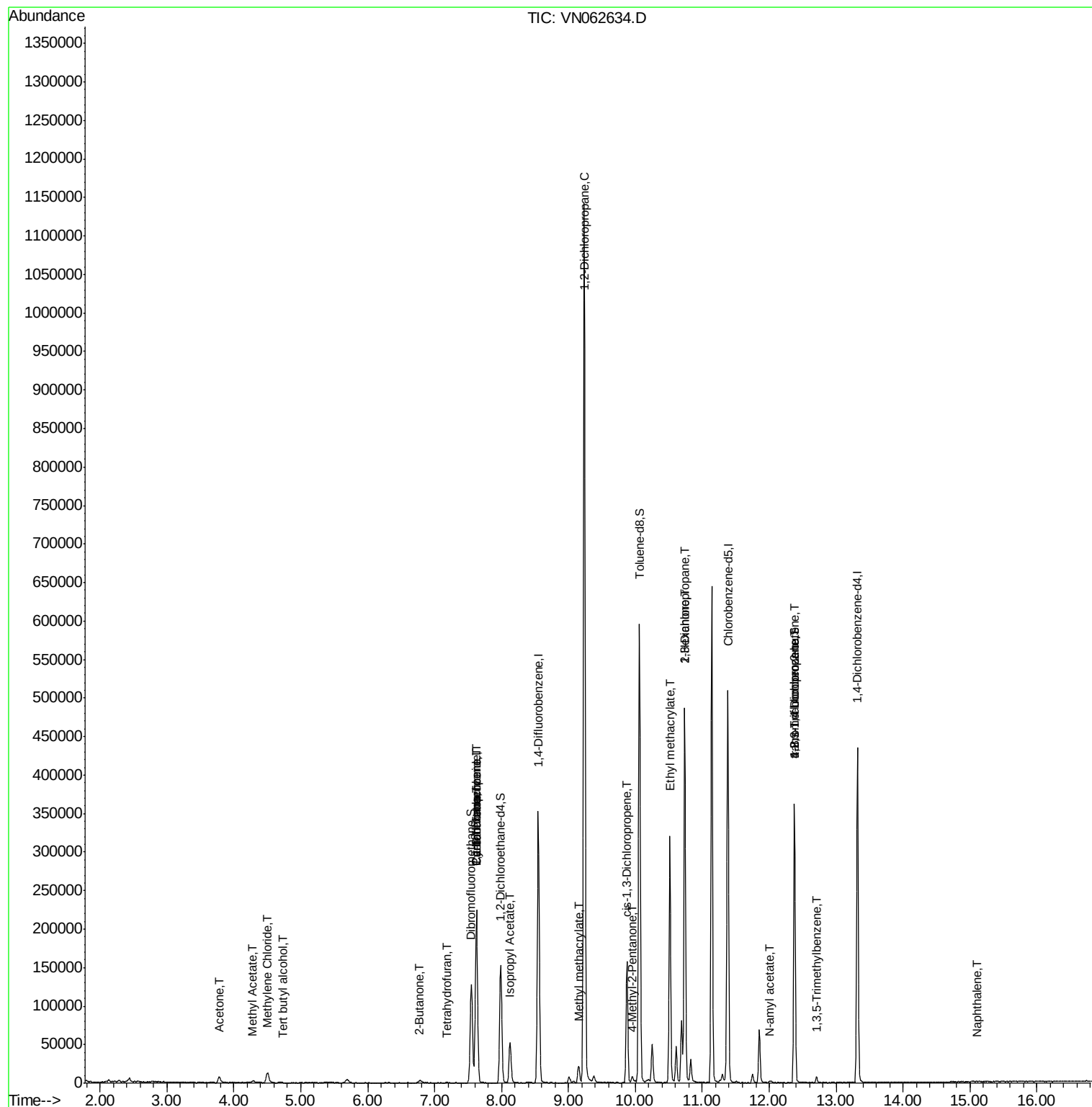
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	219	0.535	ug/l #	73
16) Acetone	3.78	43	12797	13.207	ug/l	97
18) Methyl Acetate	4.28	43	4505	1.837	ug/l #	87
20) Methylene Chloride	4.51	84	9779	4.208	ug/l	95
25) 2-Butanone	6.79	43	647	0.438	ug/l #	52
29) Tetrahydrofuran	7.18	42	266	0.266	ug/l #	38
31) Cyclohexane	7.63	56	4060	1.070	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	15158	4.797	ug/l #	50
38) Carbon Tetrachloride	7.62	117	17612	5.798	ug/l #	18
43) Isopropyl Acetate	8.13	43	63531	11.570	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1190	0.443	ug/l #	44
48) Methyl methacrylate	9.15	41	3753	1.438	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	7024	2.138	ug/l #	86
54) cis-1,3-Dichloropropene	9.87	75	26749	6.658	ug/l #	63
56) Ethyl methacrylate	10.51	69	1253	2.081	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4826	1.223	ug/l #	42
59) 2-Hexanone	10.74	43	73981	31.730	ug/l #	52
74) N-amyl acetate	12.01	43	2298	0.578	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	70885	24.735	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4679	0.634	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	70885	68.857	ug/l #	12
95) Naphthalene	15.11	128	203	3.799	ug/l #	69

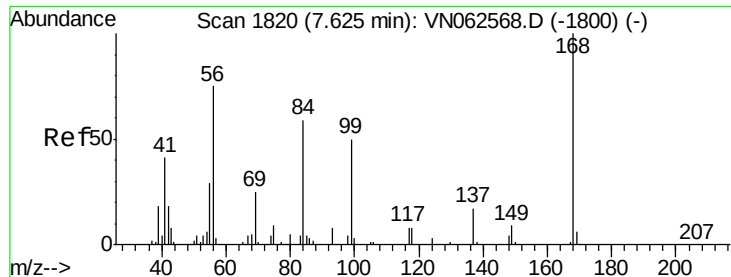
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 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: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

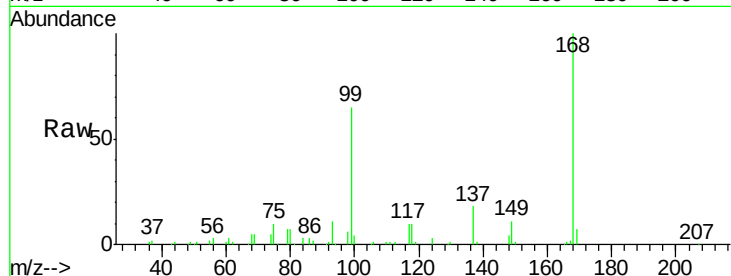
ClientSampleId :

Tot Ion:168 Resp: 165757

Ion Ratio Lower Upper

168 100

99 64.9 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

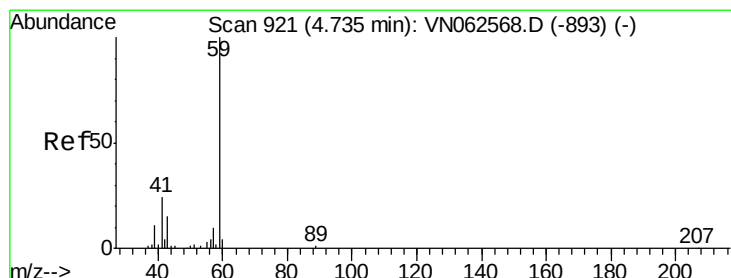
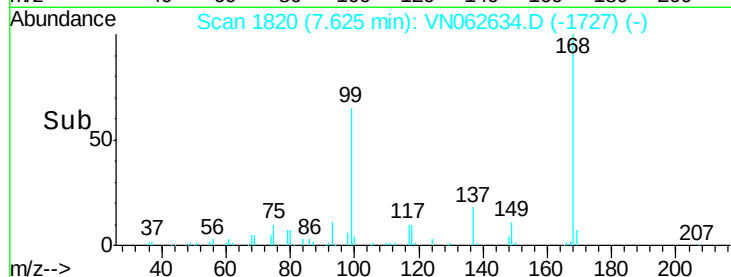
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.535 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062634.D

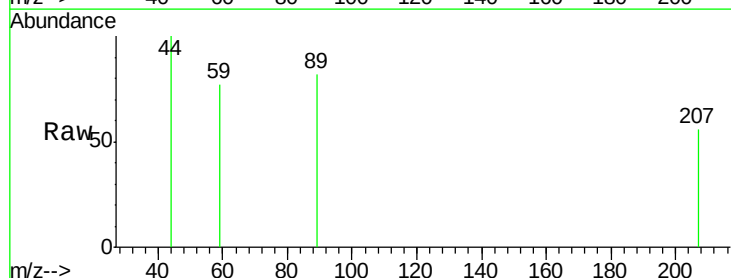
Acq: 28 Jul 2020 16:19

Tgt Ion: 59 Resp: 219

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

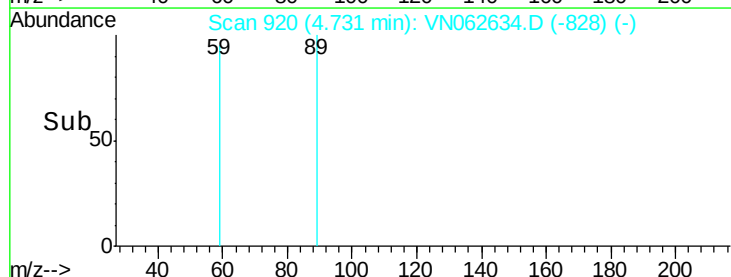
300

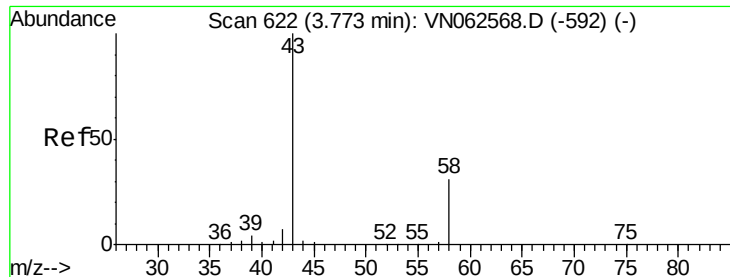
200

100

0

Time--> 4.72 4.73 4.74 4.75 4.76





#16

Acetone

Concen: 13.207 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

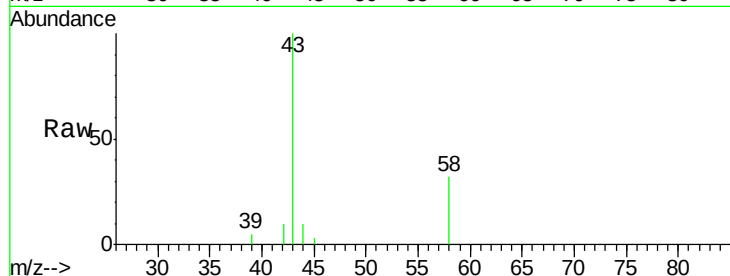
ClientSampleId :

Tot Ion: 43 Resp: 12797

Ion Ratio Lower Upper

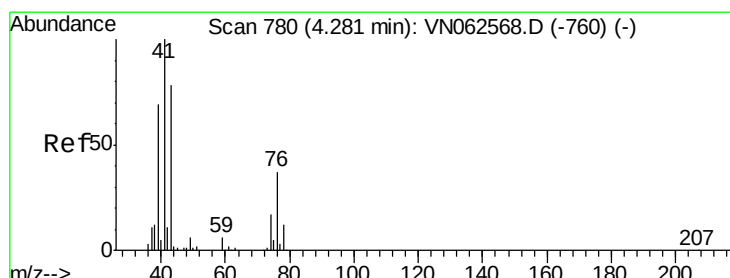
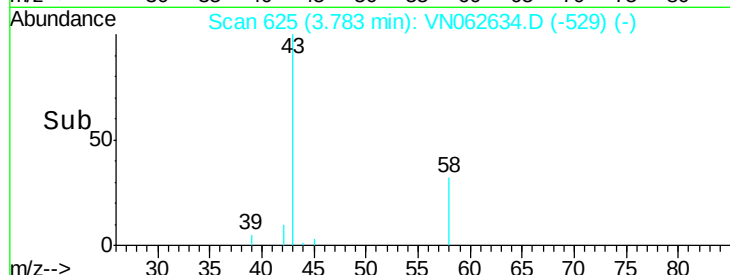
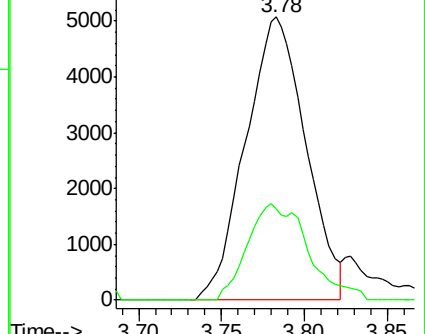
43 100

58 32.4 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.837 ug/l

RT: 4.28 min Scan# 779

Delta R.T. -0.00 min

Lab File: VN062634.D

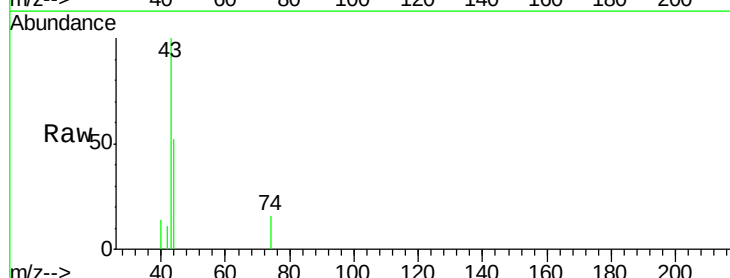
Acq: 28 Jul 2020 16:19

Tgt Ion: 43 Resp: 4505

Ion Ratio Lower Upper

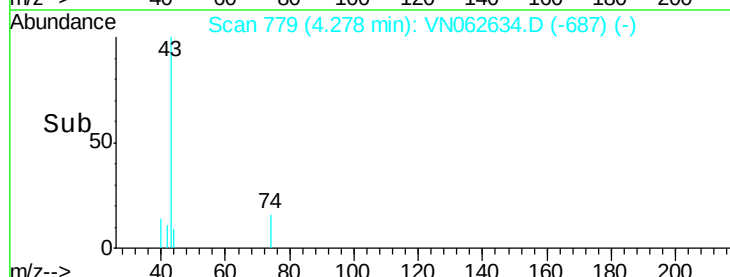
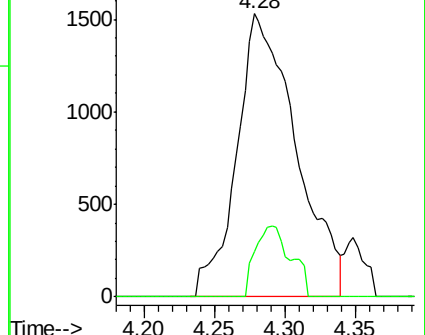
43 100

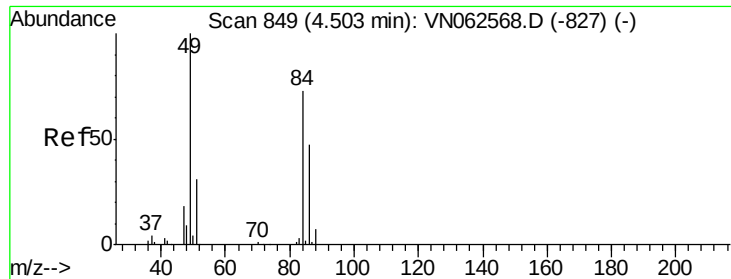
74 14.9 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

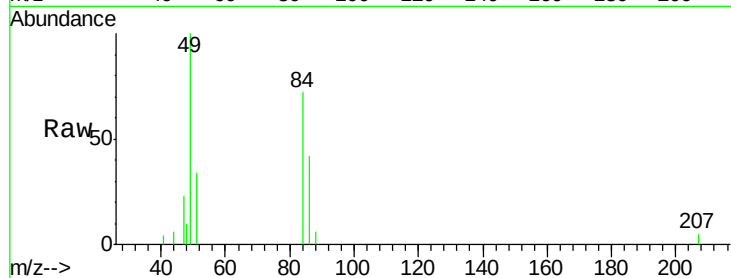




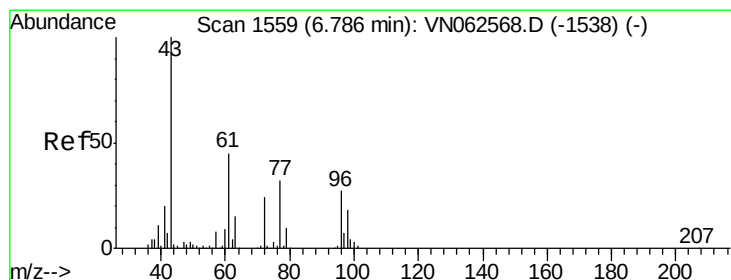
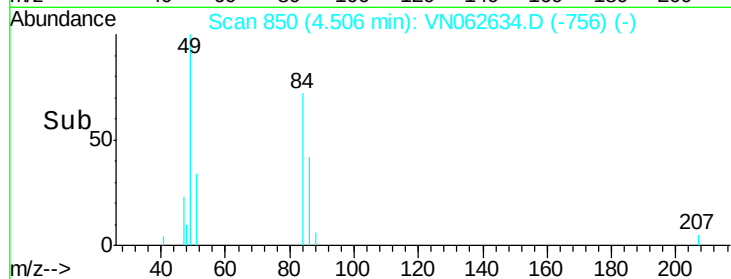
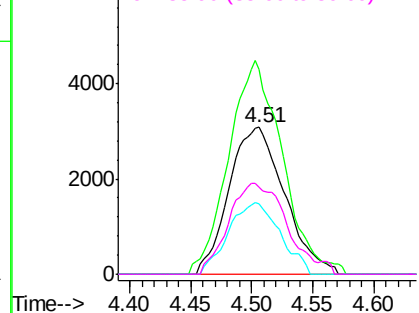
#20
Methvlene Chloride
Concen: 4.208 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN062634.D
Acq: 28 Jul 2020 16:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	9779
Ion	Ratio	Lower	Upper
84	100		
49	134.0	109.4	164.0
51	47.8	33.6	50.4
86	59.0	51.4	77.2

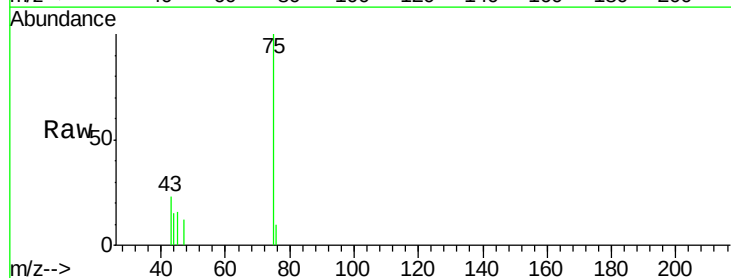


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

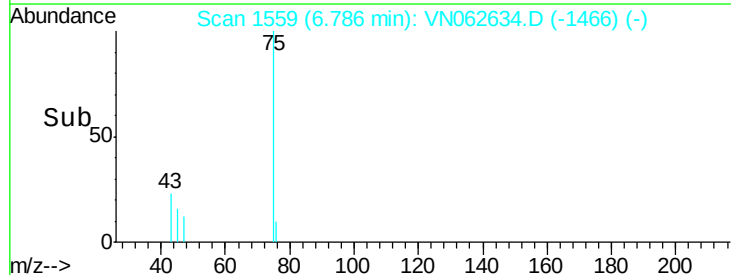
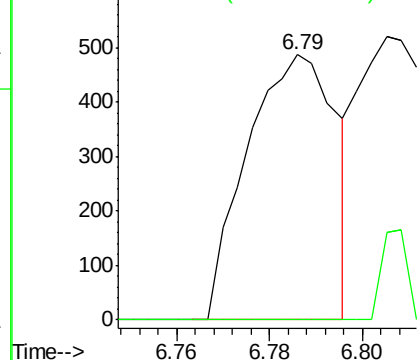


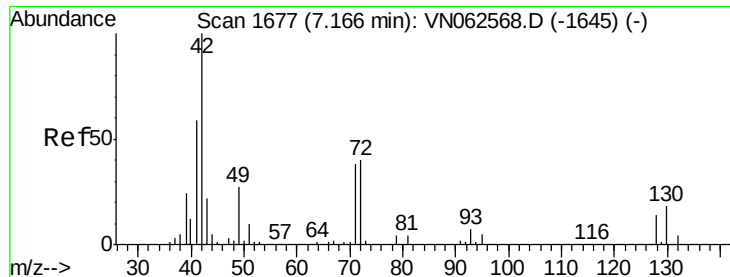
#25
2-Butanone
Concen: 0.438 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. -0.00 min
Lab File: VN062634.D
Acq: 28 Jul 2020 16:19

Tgt Ion:	43	Resp:	647
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.0	28.6#



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





#29

Tetrahydrofuran

Concen: 0.266 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

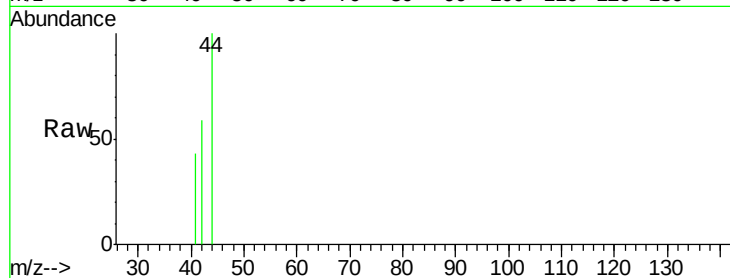
Tot Ion: 42 Resp: 266

Ion Ratio Lower Upper

42 100

72 0.0 30.7 46.1#

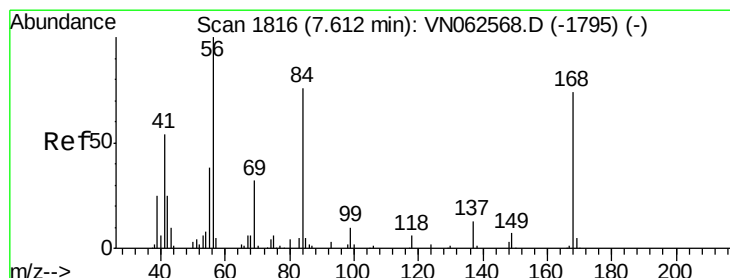
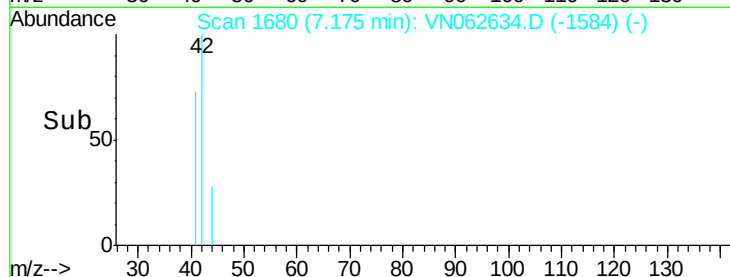
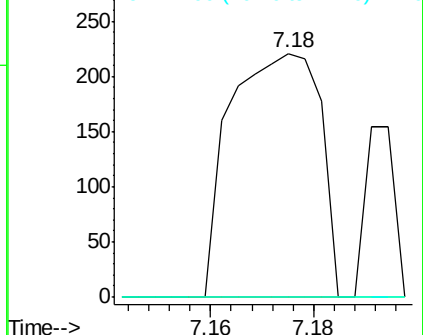
71 0.0 29.1 43.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.070 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

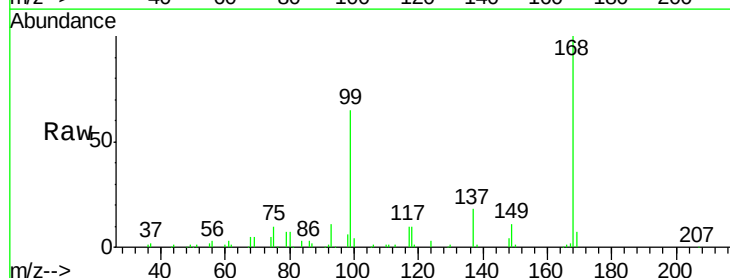
Tgt Ion: 56 Resp: 4060

Ion Ratio Lower Upper

56 100

69 173.6 25.3 37.9#

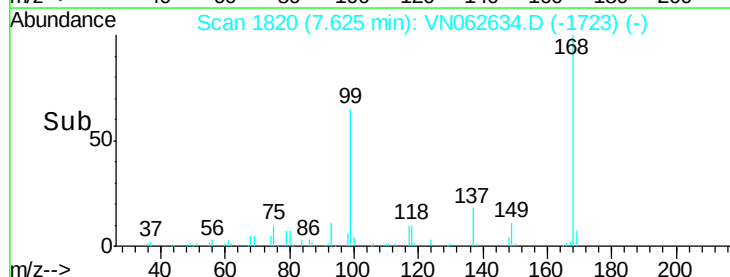
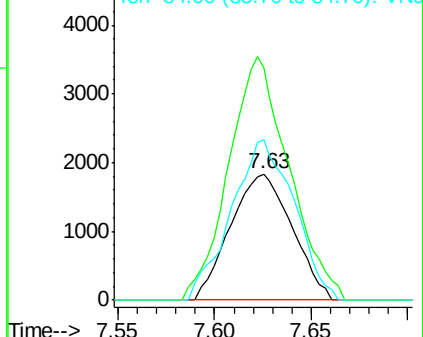
84 127.4 61.0 91.4#

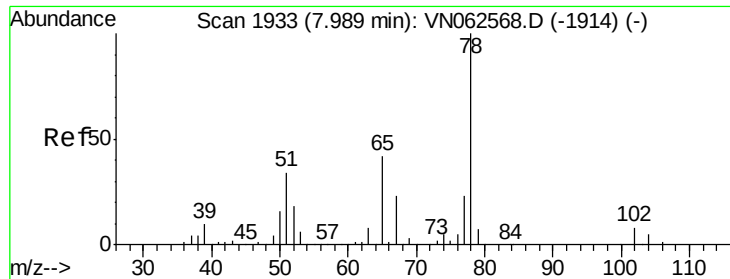


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

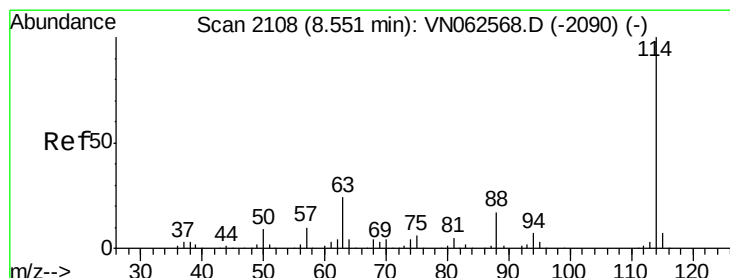
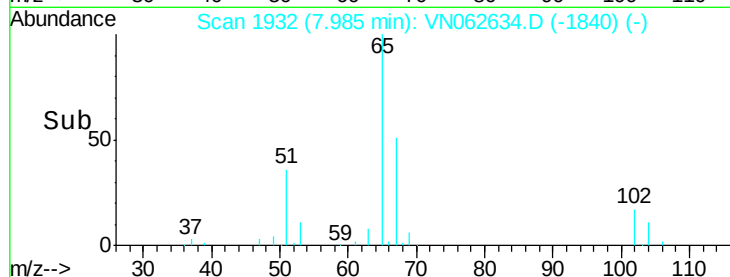
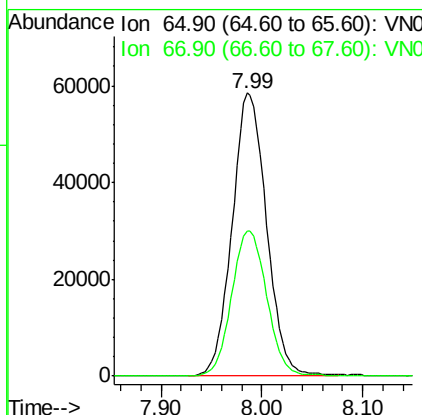
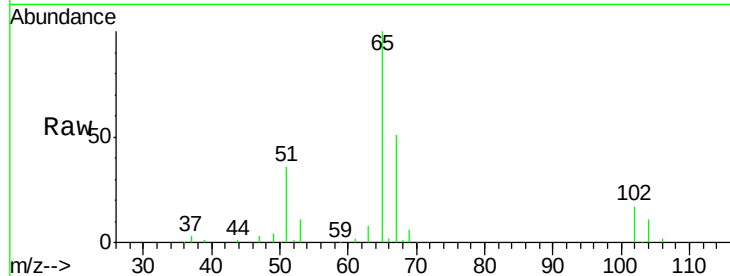




#33
 1,2-Dichloroethane-d4
 Concen: 53.783 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

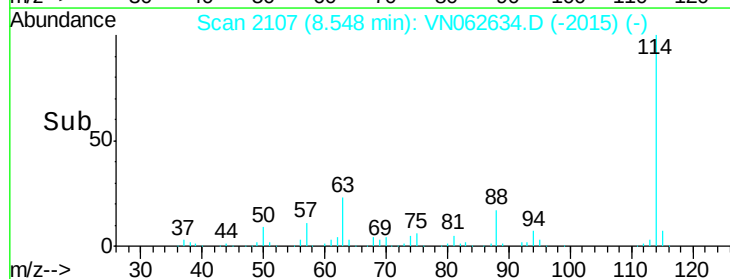
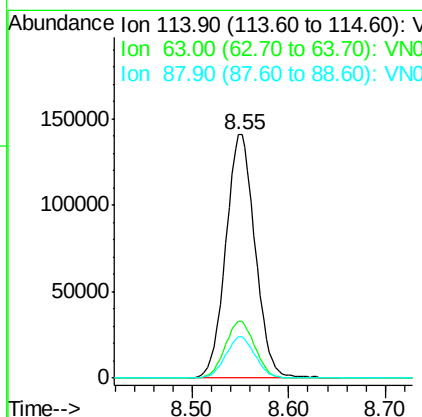
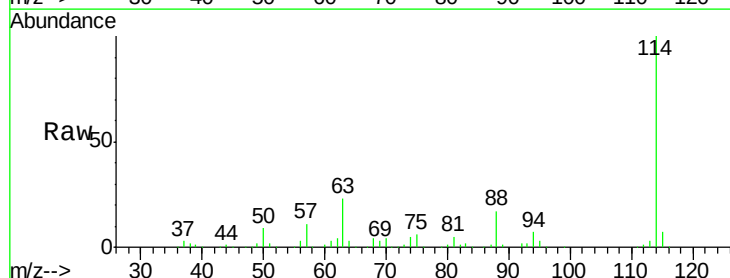
Instrument :
 MSVOA_N
 ClientSampleId :

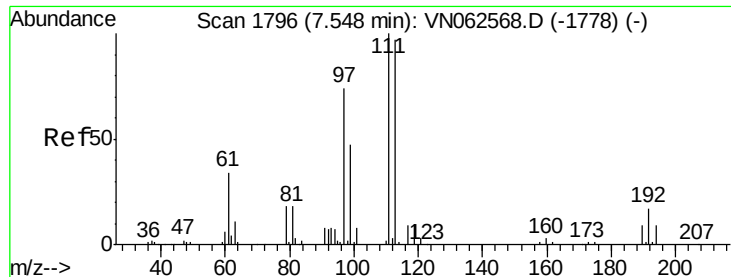
Tot Ion: 65 Resp: 138489
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Tgt Ion: 114 Resp: 296461
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 48.4
 88 17.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.151 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :
MSVOA_N
ClientSampleId :

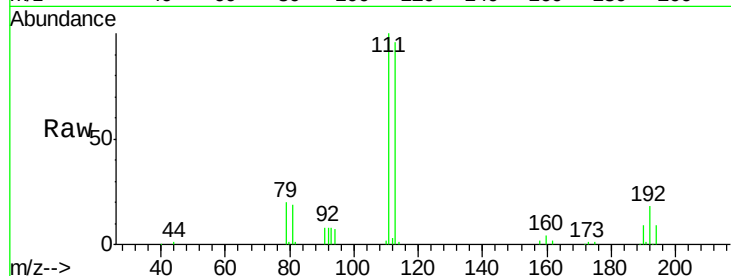
Tot Ion:113 Resp: 97661

Ion Ratio Lower Upper

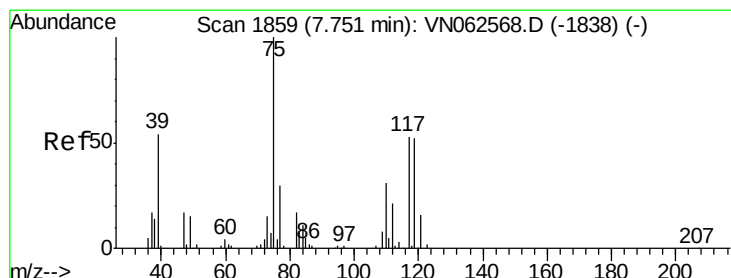
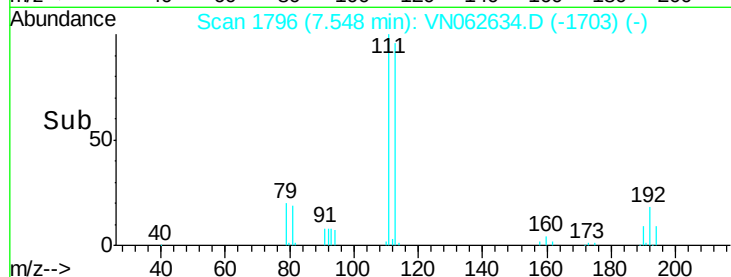
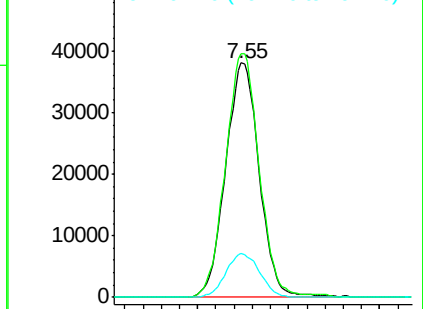
113 100

111 104.1 82.7 124.1

192 18.7 14.8 22.2



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: 4.797 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

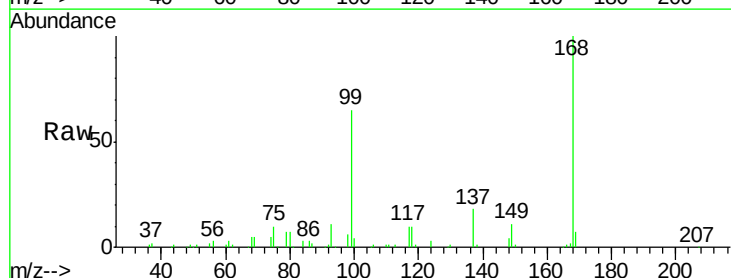
Tgt Ion: 75 Resp: 15158

Ion Ratio Lower Upper

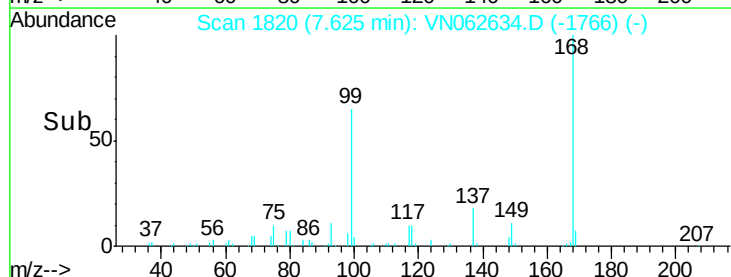
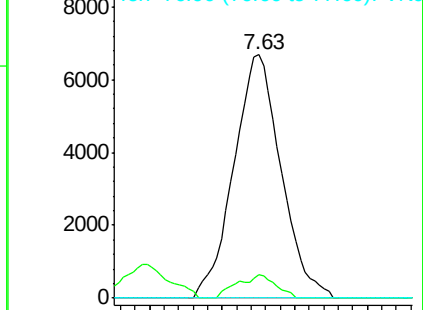
75 100

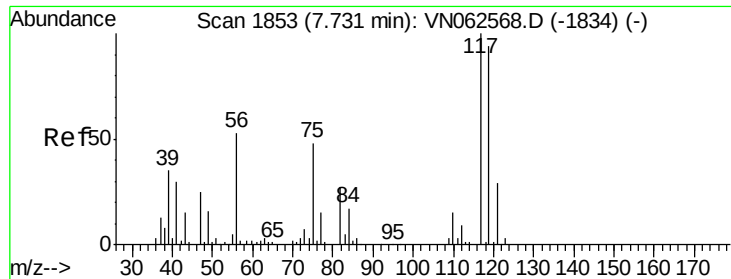
110 7.8 16.0 48.0#

77 0.0 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 5.798 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

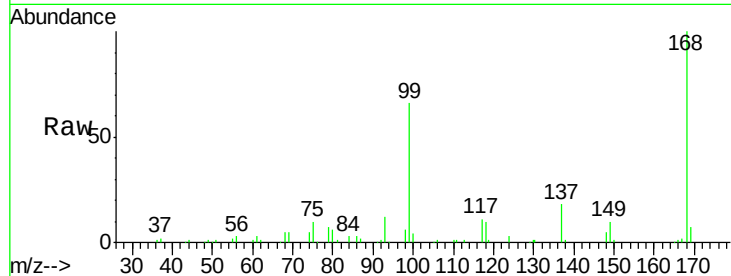
Tot Ion:117 Resp: 17612

Ion Ratio Lower Upper

117 100

119 6.3 74.8 112.2#

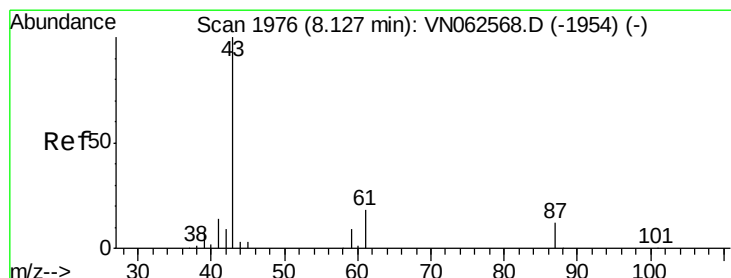
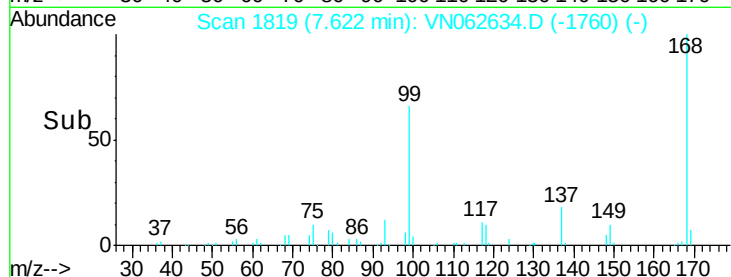
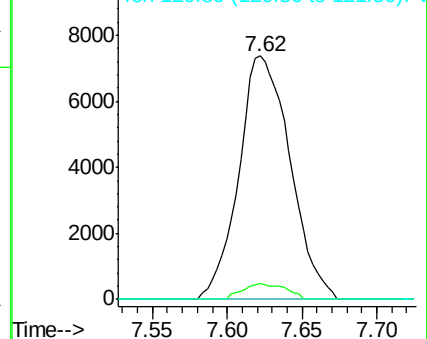
121 0.0 23.0 34.6#



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: 11.570 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

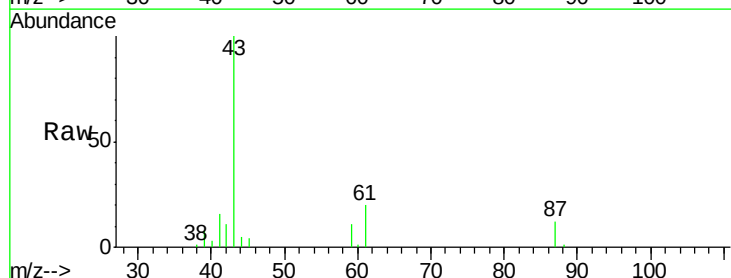
Tgt Ion: 43 Resp: 63531

Ion Ratio Lower Upper

43 100

61 19.6 20.8 31.2#

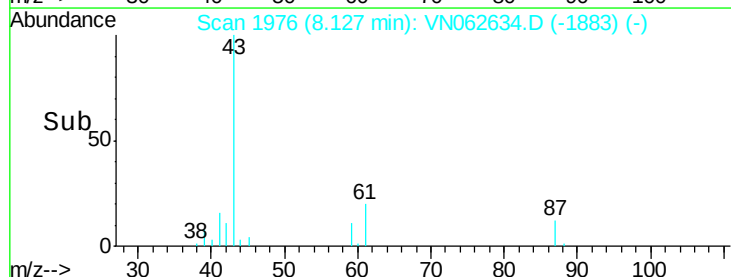
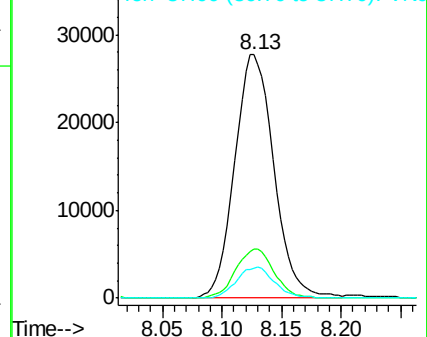
87 12.1 9.2 13.8

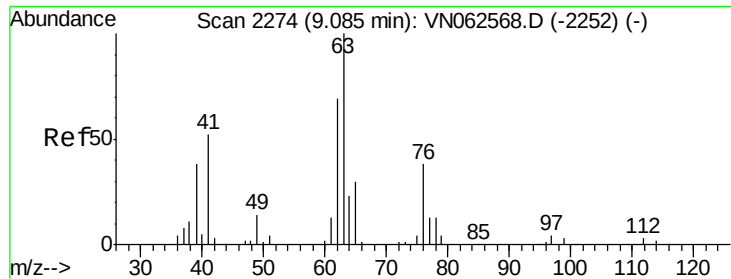


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

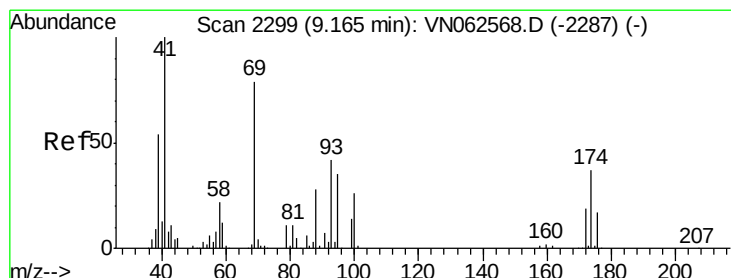
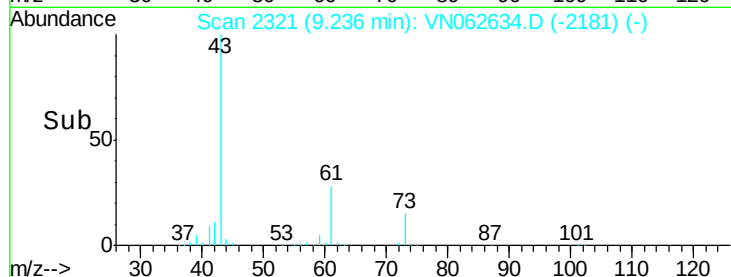
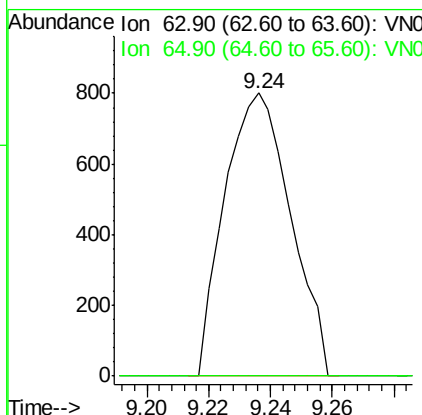
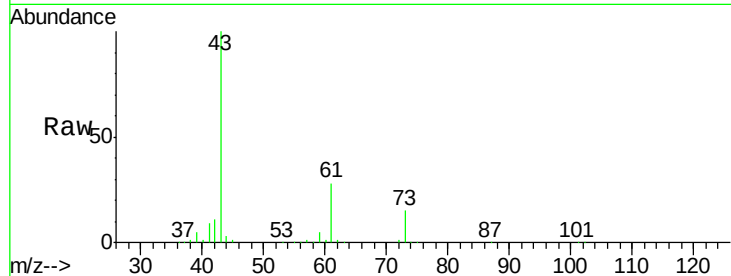




#45
 1,2-Dichloropropane
 Concen: 0.443 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

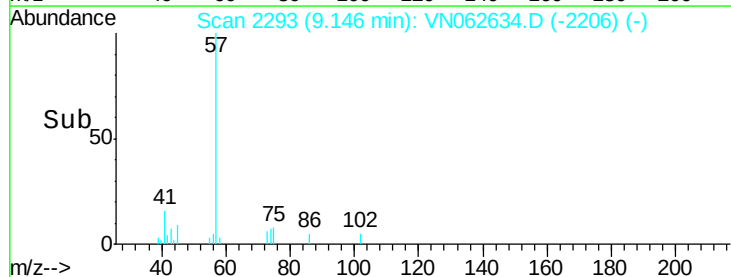
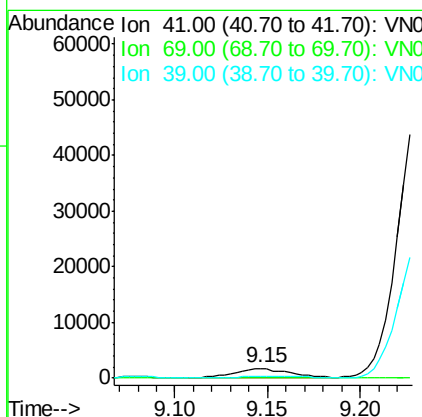
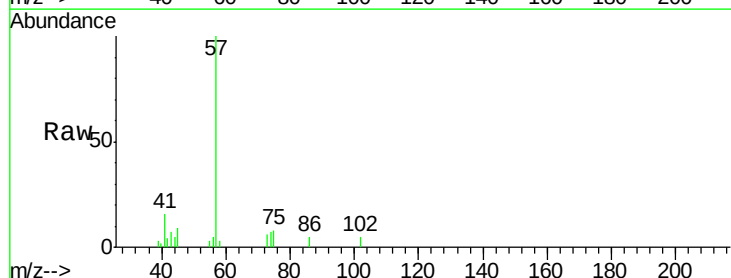
Instrument :
 MSVOA_N
 ClientSampleId :

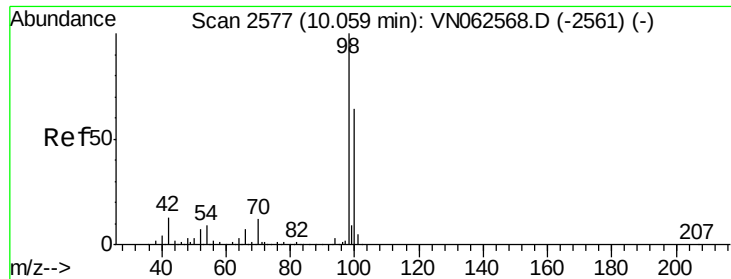
Tot Ion: 63 Resp: 1190
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.438 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Tgt Ion: 41 Resp: 3753
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 43.5 65.3#

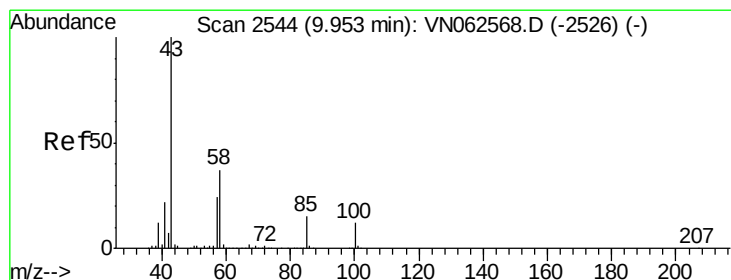
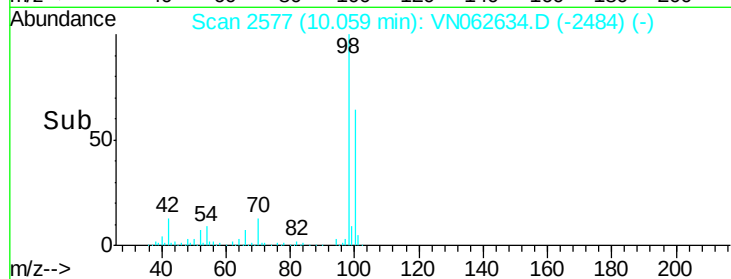
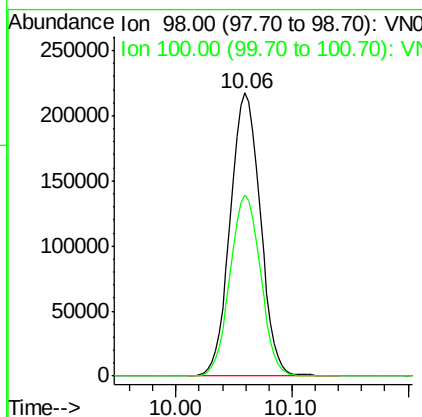
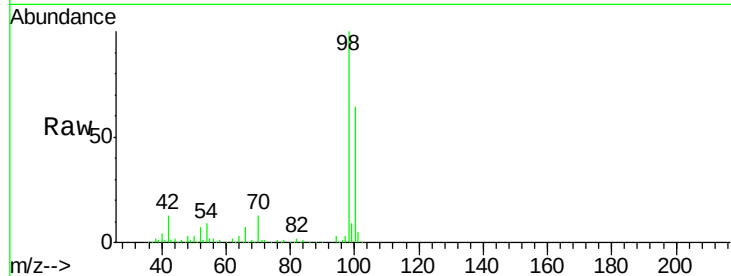




#50
Toluene-d8
Concen: 50.518 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062634.D
Acq: 28 Jul 2020 16:19

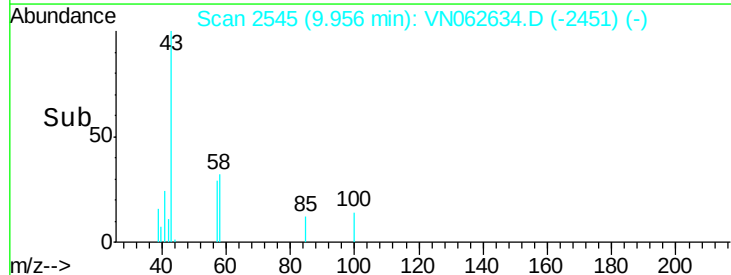
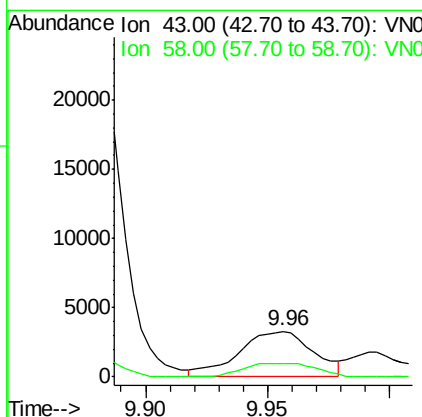
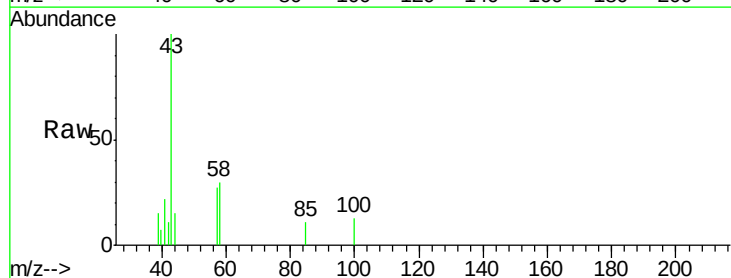
Instrument :
MSVOA_N
ClientSampleId :

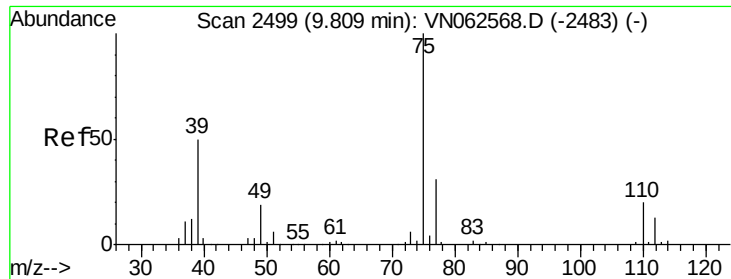
Tot Ion: 98 Resp: 392508
Ion Ratio Lower Upper
98 100
100 64.6 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 2.138 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062634.D
Acq: 28 Jul 2020 16:19

Tgt Ion: 43 Resp: 7024
Ion Ratio Lower Upper
43 100
58 28.6 29.8 44.6#



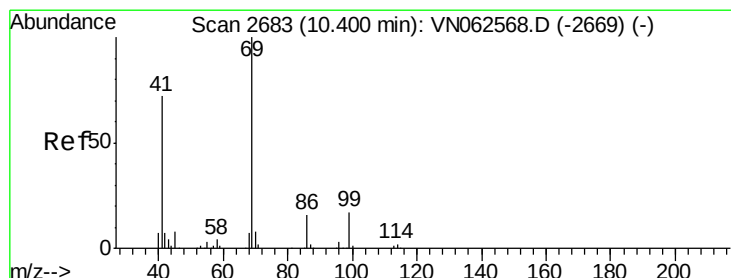
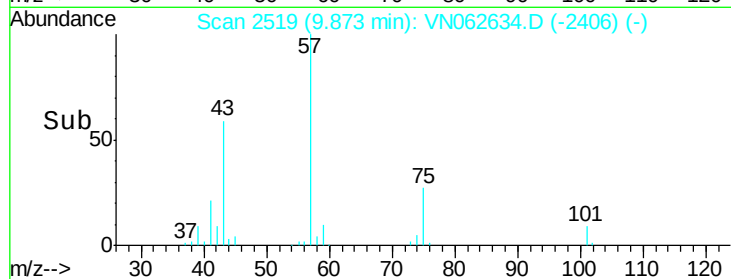
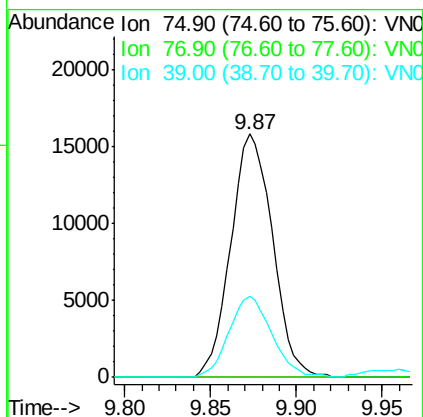
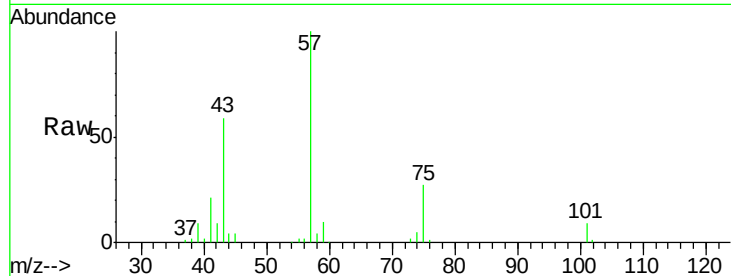


#54

cis-1,3-Dichloropropene
 Concen: 6.658 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Instrument :
 MSVOA_N
 ClientSampleId :

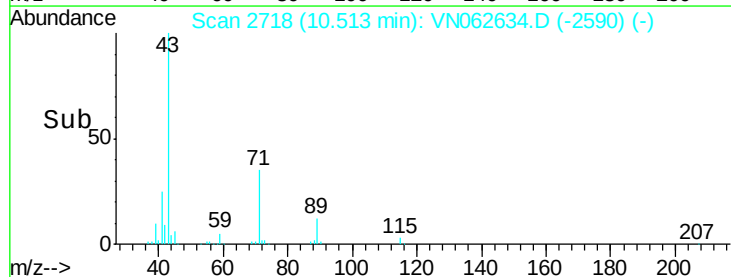
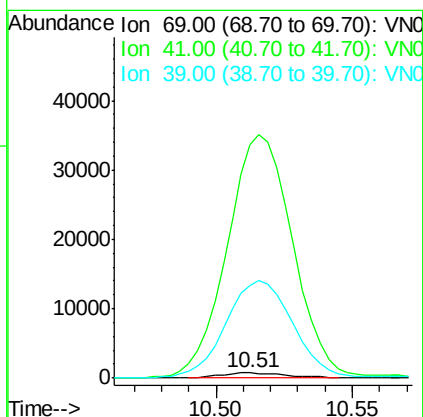
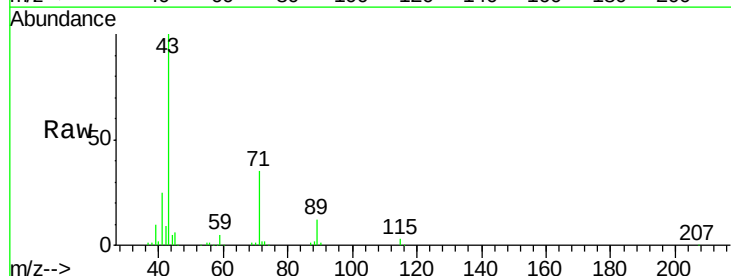
Tot Ion: 75 Resp: 26749
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 33.2 39.8 59.8#

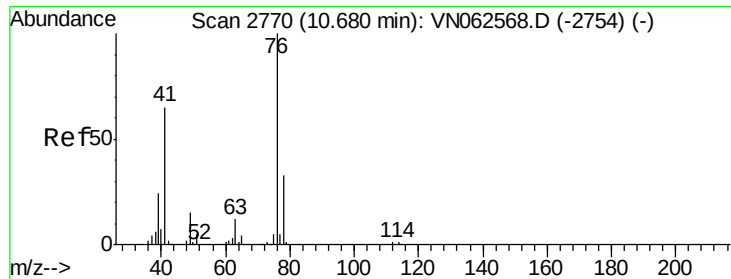


#56

Ethyl methacrylate
 Concen: 2.081 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Tgt Ion: 69 Resp: 1253
 Ion Ratio Lower Upper
 69 100
 41 4710.8 57.2 85.8#
 39 1939.6 28.6 43.0#

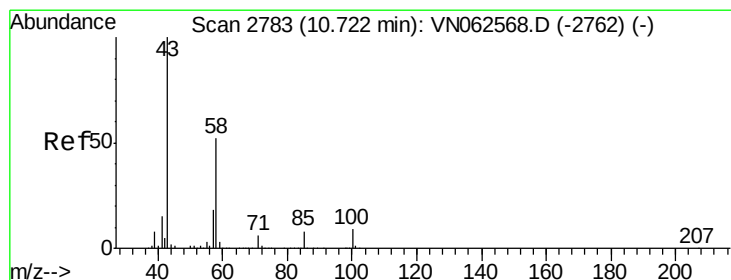
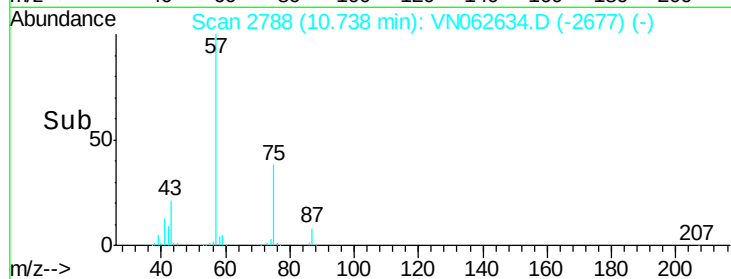
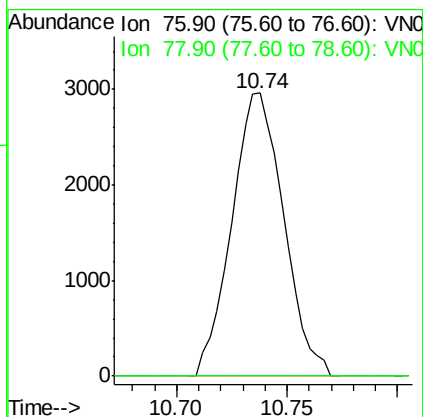
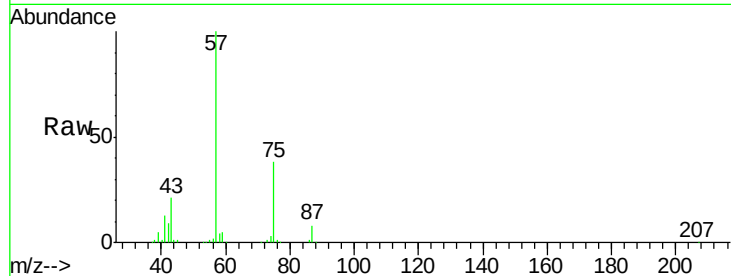




#57
 1,3-Dichloropropane
 Concen: 1.223 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

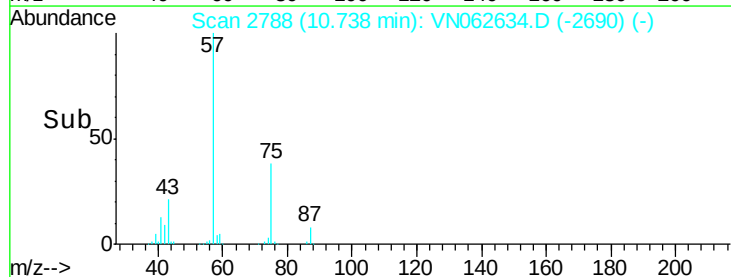
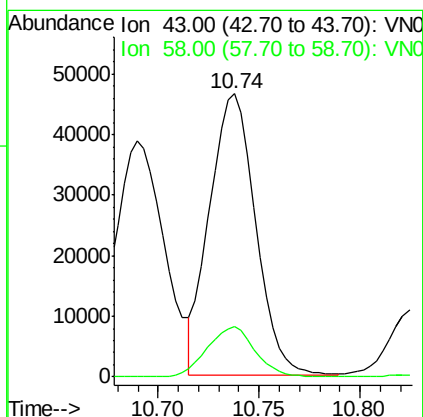
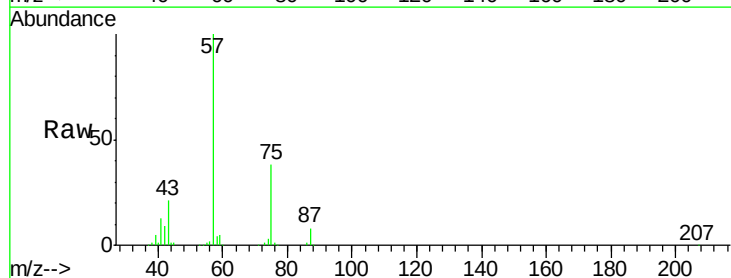
Instrument :
 MSVOA_N
 ClientSampleId :

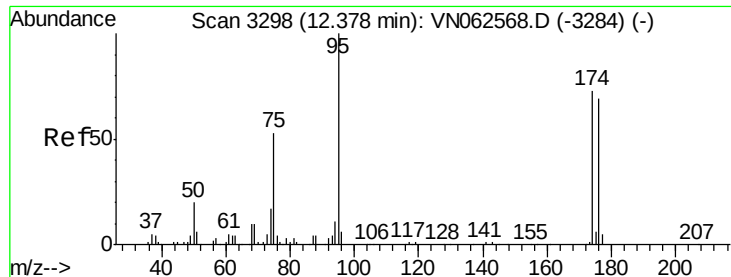
Tot Ion: 76 Resp: 4826
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 31.730 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Tgt Ion: 43 Resp: 73981
 Ion Ratio Lower Upper
 43 100
 58 18.4 26.0 78.0#





#62

4-Bromofluorobenzene

Concen: 45.373 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

ClientSampled :

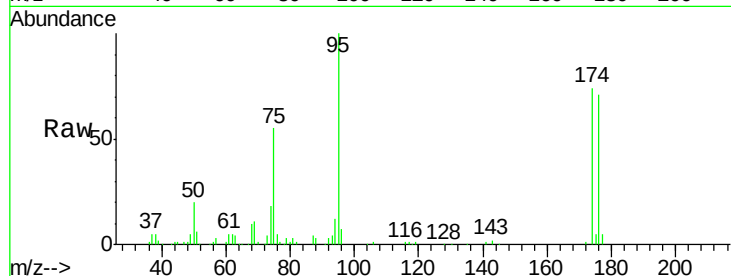
Tot Ion: 95 Resp: 128901

Ion Ratio Lower Upper

95 100

174 74.2 0.0 144.6

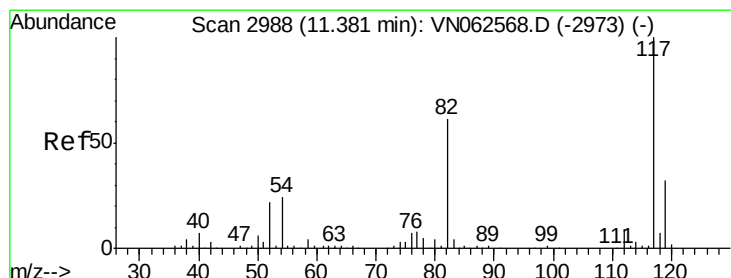
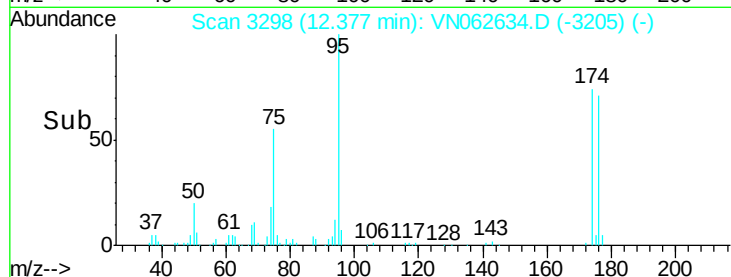
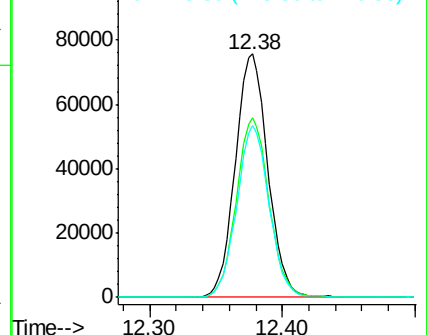
176 70.4 0.0 139.4



Abundance Ion 94.90 (94.60 to 95.60): VN062568.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN062568.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062568.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

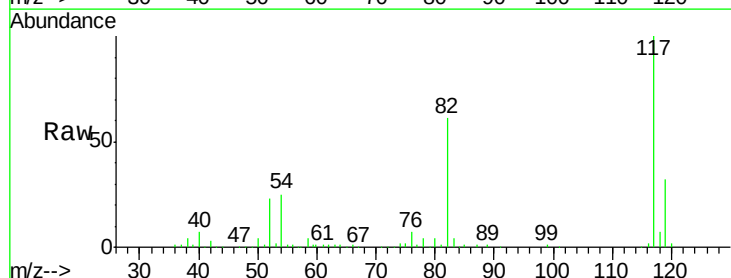
Tgt Ion: 117 Resp: 272466

Ion Ratio Lower Upper

117 100

82 61.3 49.0 73.6

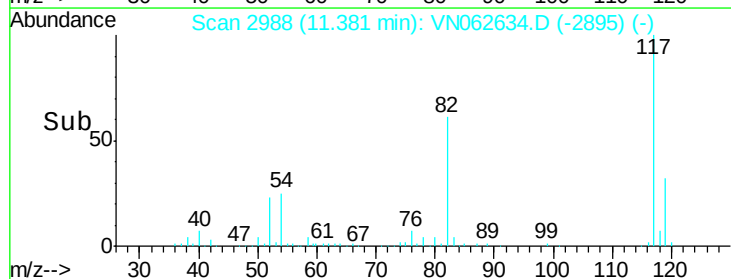
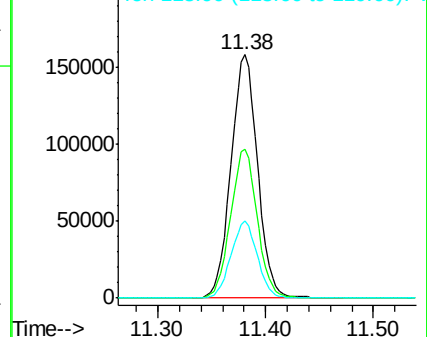
119 31.6 25.4 38.2

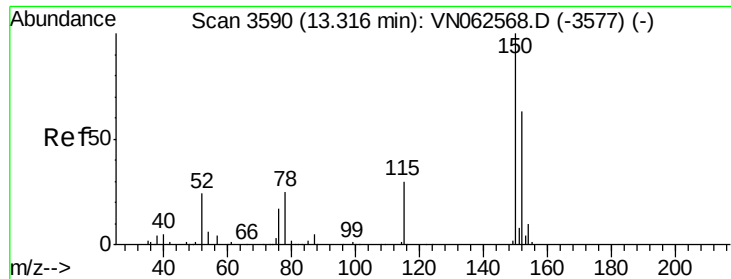


Abundance Ion 116.90 (116.60 to 117.60): VN062568.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN062568.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN062568.D (-2973) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

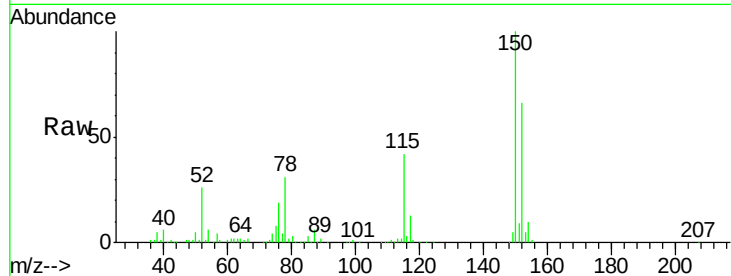
Tot Ion:152 Resp: 112588

Ion Ratio Lower Upper

152 100

115 63.2 31.8 95.4

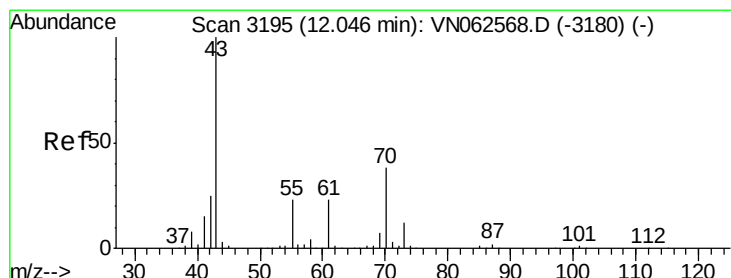
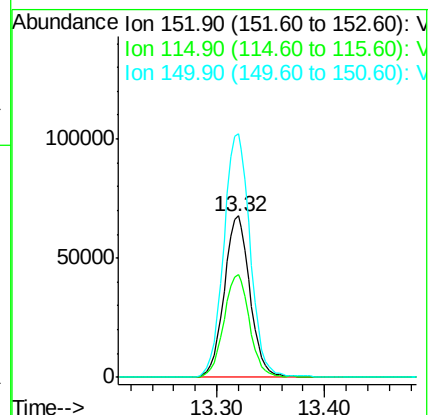
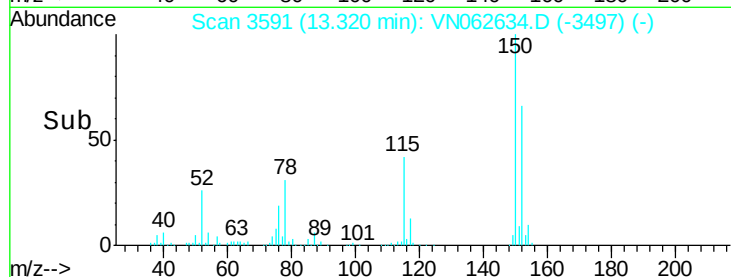
150 154.1 0.0 351.4



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: 0.578 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Tgt Ion: 43 Resp: 2298

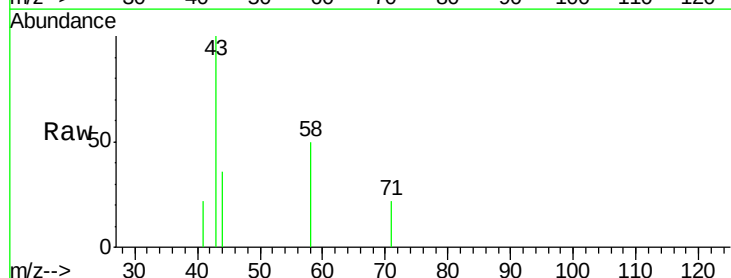
Ion Ratio Lower Upper

43 100

70 0.0 30.5 45.7#

55 0.0 19.0 28.6#

61 0.0 18.4 27.6#

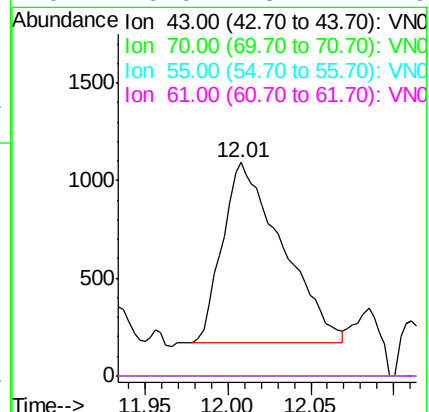
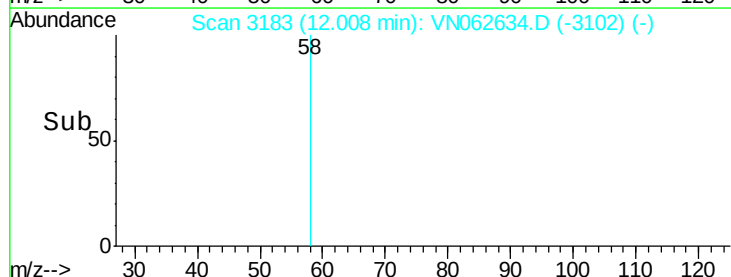


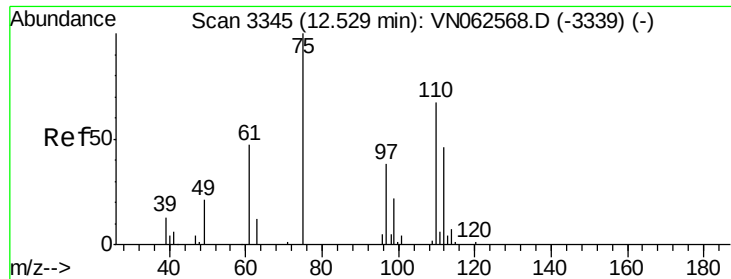
Abundance Ion 43.00 (42.70 to 43.70): V

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

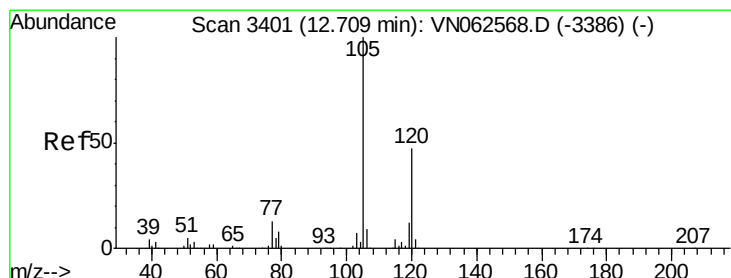
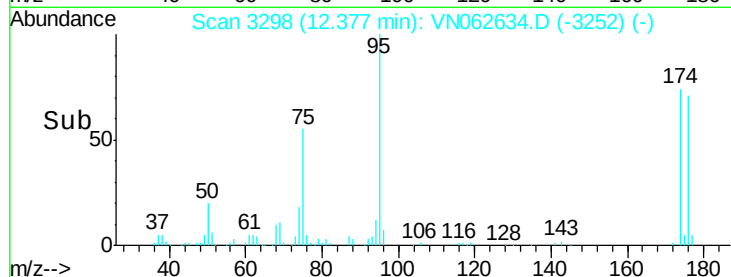
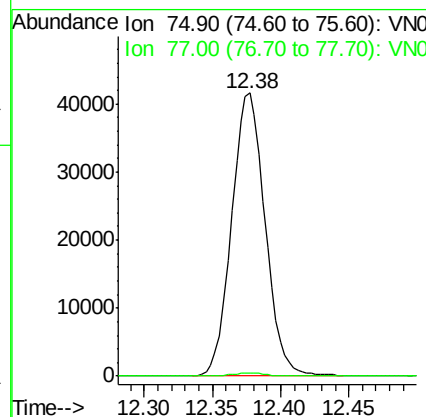
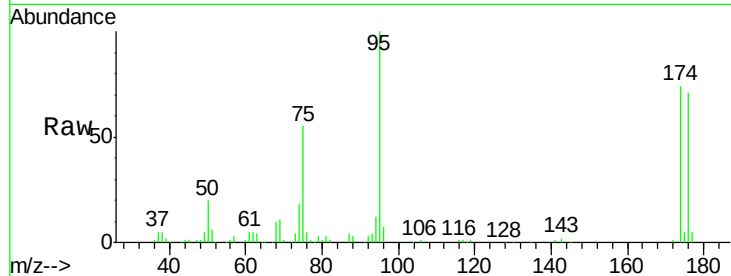




#76
 1,2,3-Trichloropropane
 Concen: 24.735 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

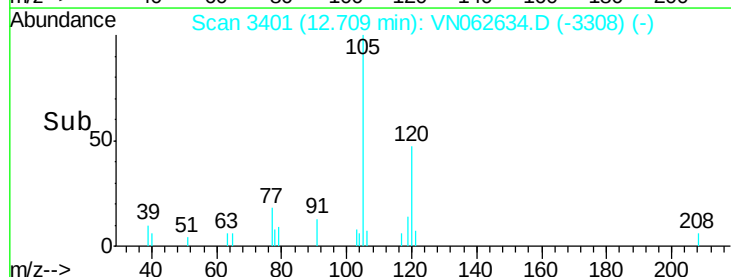
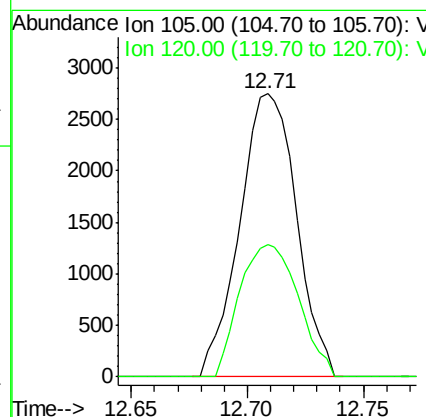
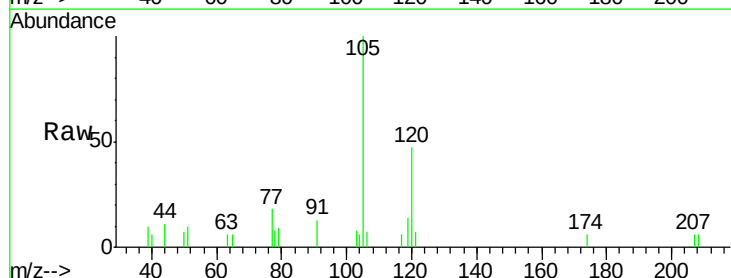
Instrument :
 MSVOA_N
 ClientSampleId :

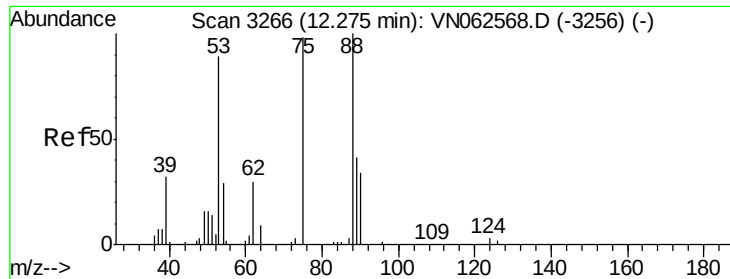
Tot Ion: 75 Resp: 70885
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.634 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN062634.D
 Acq: 28 Jul 2020 16:19

Tgt Ion: 105 Resp: 4679
 Ion Ratio Lower Upper
 105 100
 120 48.4 23.2 69.6





#81

trans-1,4-Dichloro-2-butene

Concen: 68.857 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

Instrument :

MSVOA_N

ClientSampleId :

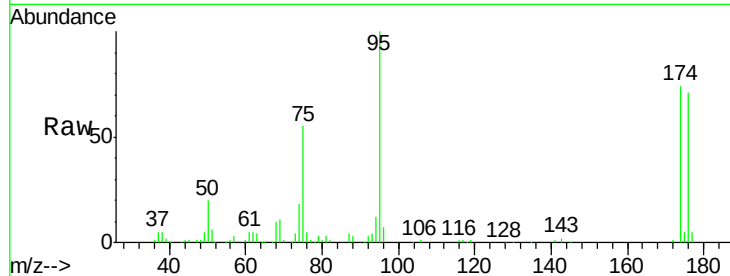
Tot Ion: 75 Resp: 70885

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

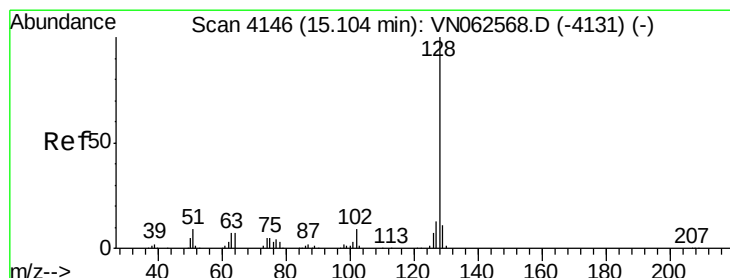
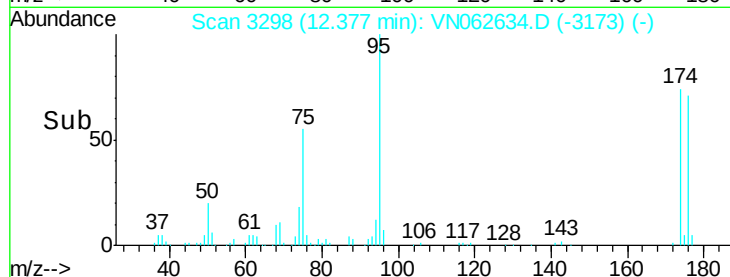
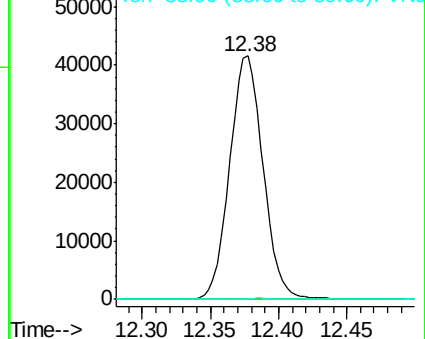
89 0.1 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VN062568.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN062568.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN062568.D (-3256) (-)



#95

Naphthalene

Concen: 3.799 ug/l

RT: 15.11 min Scan# 4149

Delta R.T. 0.01 min

Lab File: VN062634.D

Acq: 28 Jul 2020 16:19

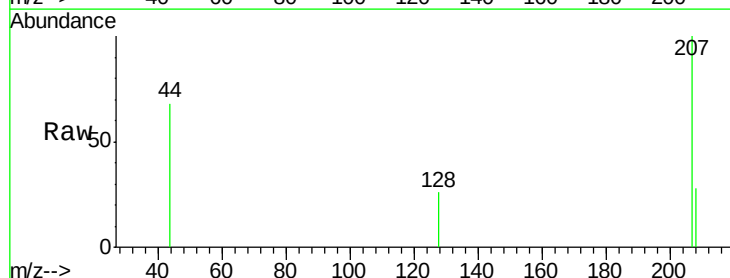
Tgt Ion: 128 Resp: 203

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN062568.D (-4131) (-)

Ion 127.00 (126.70 to 127.70): VN062568.D (-4131) (-)

Ion 129.00 (128.70 to 129.70): VN062568.D (-4131) (-)

