

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072020\
 Data File : VN062559.D
 Acq On : 20 Jul 2020 14:05
 Operator : JC/MD
 Sample : L3331-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

Quant Time: Jul 21 00:55:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jul 14 00:52:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	36059	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	187426	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	176340	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	96141	31.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.47%
60) 4-Bromofluorobenzene	12.38	95	78823	26.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.57%
63) Toluene-d8	10.06	98	240514	28.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.20%

Target Compounds

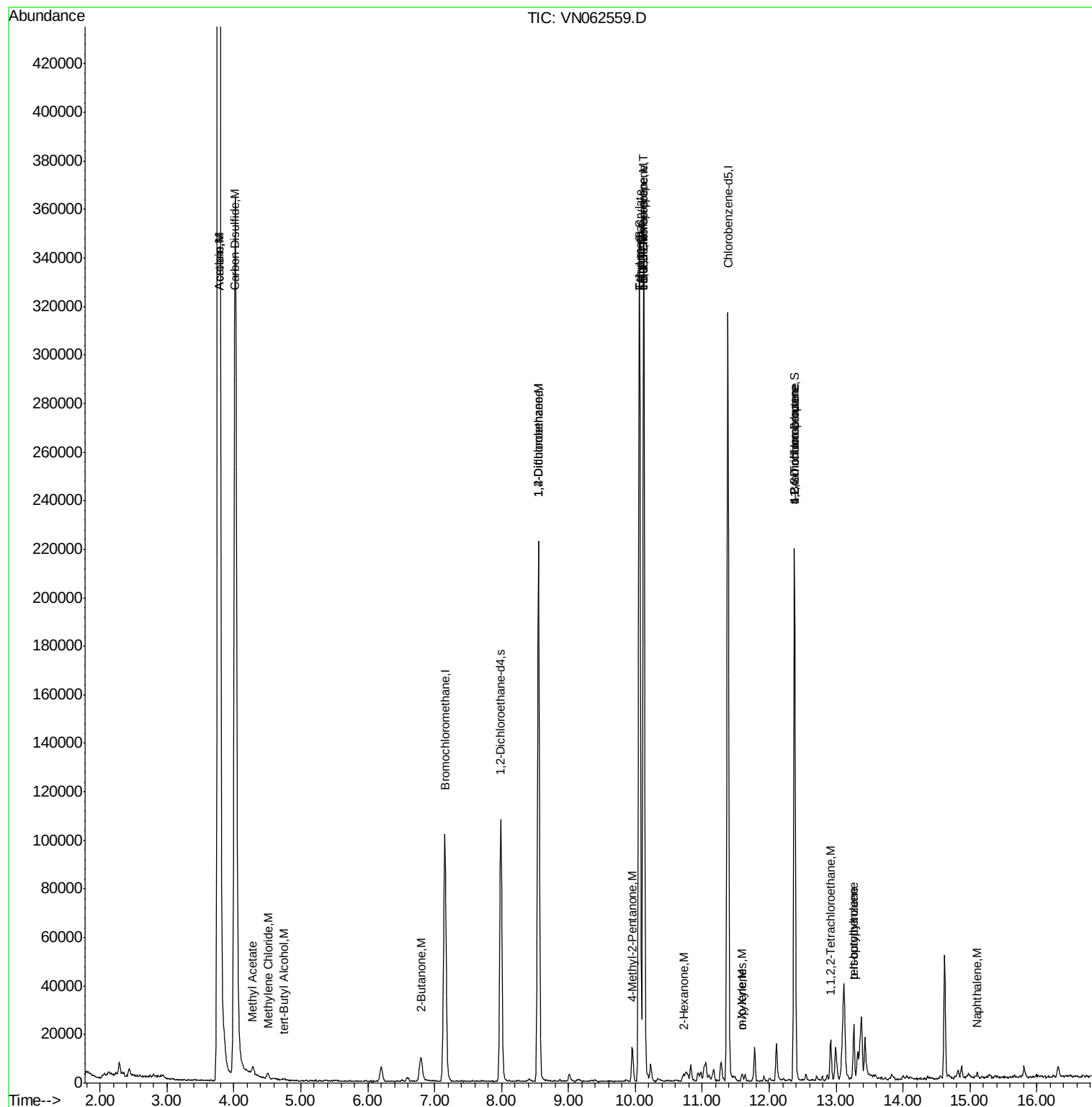
					Ovalue	
12) Methyl Acetate	4.28	43	2572	0.924	ug/l #	81
13) Acrolein	3.77	56	101	0.243	ug/l #	1
15) Acetone	3.78	58	516875	1300.023	ug/l	98
16) Carbon Disulfide	4.01	76	3298	0.487	ug/l #	75
18) Methylene Chloride	4.50	84	719	0.281	ug/l	89
23) tert-Butyl Alcohol	4.75	59	263	0.607	ug/l #	100
30) 2-Butanone	6.80	43	18839	11.173	ug/l #	96
36) 1,2-Dichloroethane	8.55	62	7209	2.124	ug/l #	77
48) t-1,3-Dichloropropene	10.13	75	1746	0.455	ug/l #	1
49) cis-1,3-Dichloropropene	10.13	75	1746	0.422	ug/l #	1
51) Ethyl methacrylate	10.07	69	790	0.216	ug/l	81
58) 4-Methyl-2-Pentanone	9.96	43	10883	3.168	ug/l	98
59) 2-Hexanone	10.73	43	1997	0.793	ug/l #	71
62) Toluene	10.13	91	272819	27.271	ug/l	98
67) m/p-Xylenes	11.60	106	1169	0.291	ug/l	82
68) o-Xylene	11.60	106	1169	0.303	ug/l	92
71) 1,1,2,2-Tetrachloroethane	12.92	83	1052	0.314	ug/l #	45
72) 1,2,3-Trichloropropane	12.38	75	41790	12.833	ug/l	1
77) t-1,4-Dichloro-2-butene	12.38	75	41790	34.312	ug/l #	11
79) tert-butylbenzene	13.27	119	2044	0.280	ug/l	62
82) p-Isopropyltoluene	13.27	119	2044	0.236	ug/l	91
91) Naphthalene	15.11	128	3002	0.555	ug/l #	81

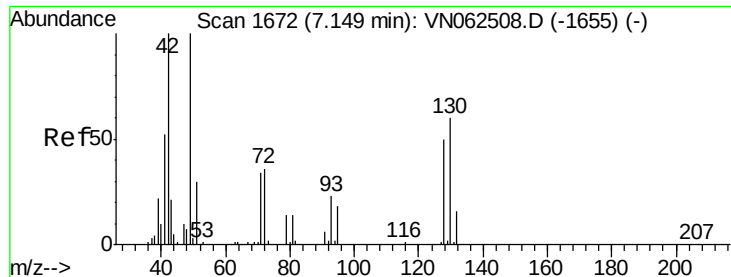
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 20 Jul 2020 14:05
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Quant Time: Jul 21 00:55:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071320W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Jul 14 00:52:57 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.15 min Scan# 1673

Delta R.T. 0.00 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE-(JULY)

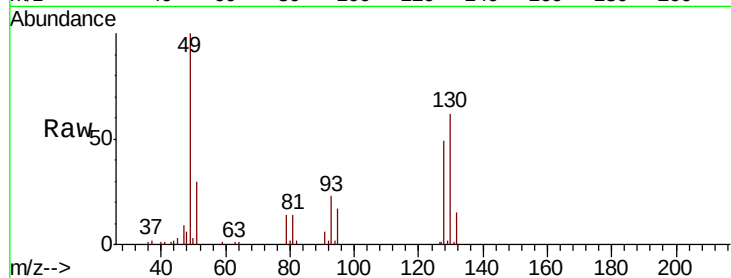
Tot Ion:128 Resp: 36059

Ion Ratio Lower Upper

128 100

49 203.1 0.0 525.0

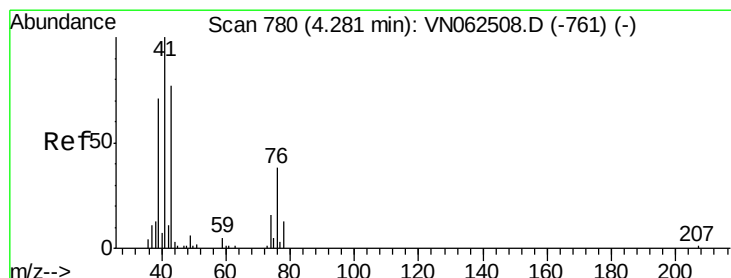
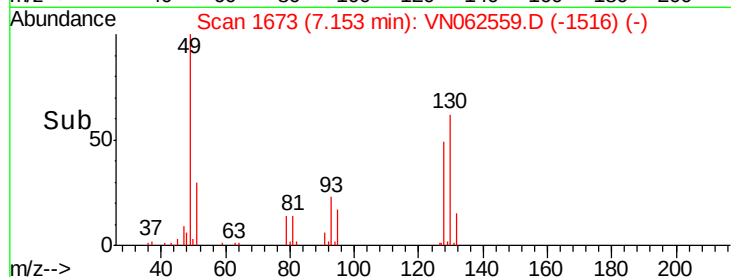
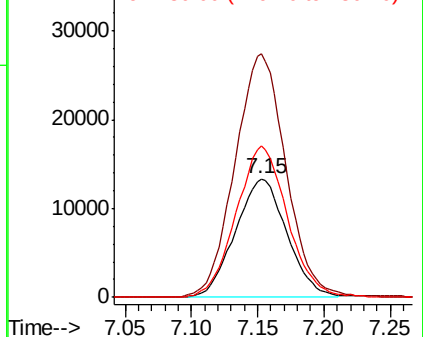
130 126.9 0.0 319.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.924 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.00 min

Lab File: VN062559.D

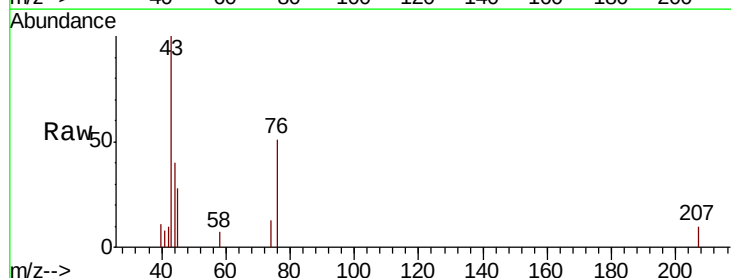
Acq: 20 Jul 2020 14:05

Tgt Ion: 43 Resp: 2572

Ion Ratio Lower Upper

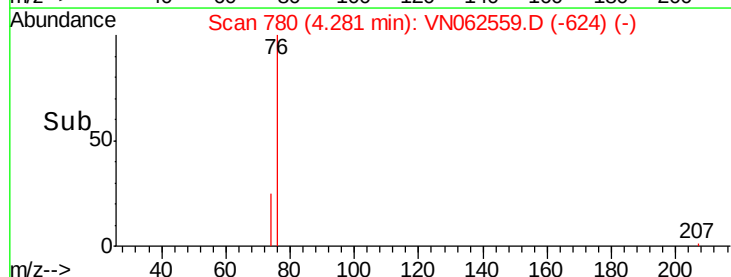
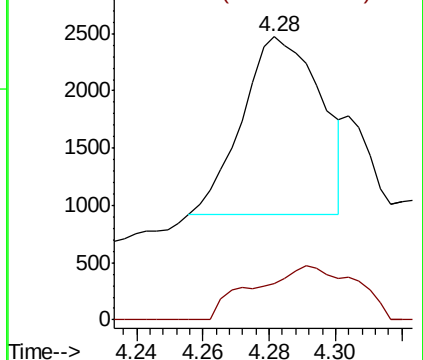
43 100

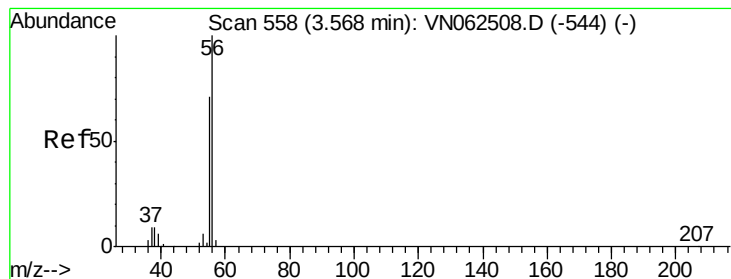
74 11.9 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.243 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.20 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

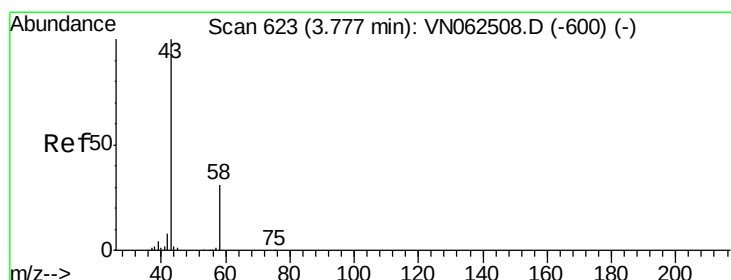
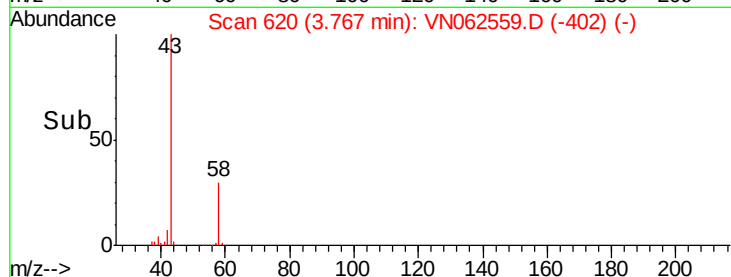
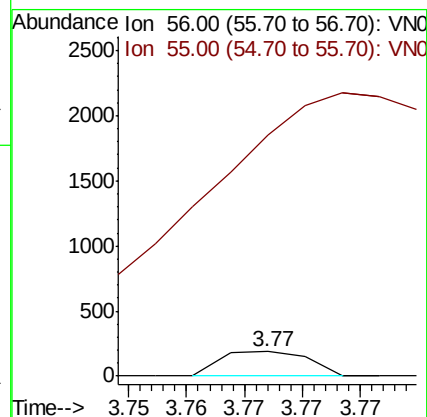
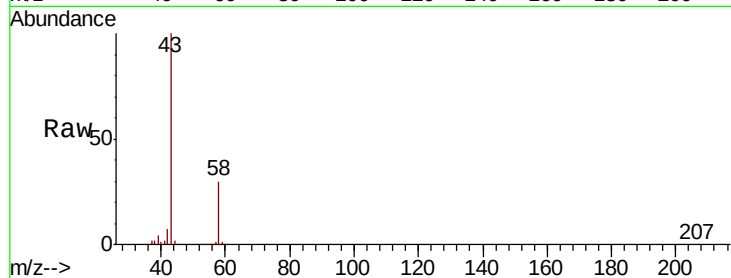
002-35TH-AVE-(JULY)

Tot Ion: 56 Resp: 101

Ion Ratio Lower Upper

56 100

55 5100.0 56.0 84.0#



#15

Acetone

Concen: 1300.023 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN062559.D

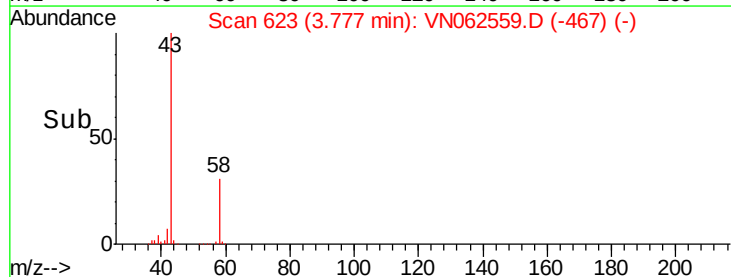
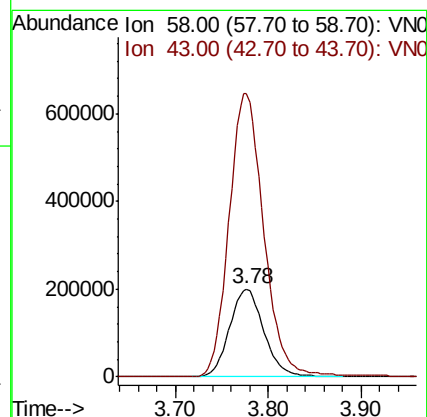
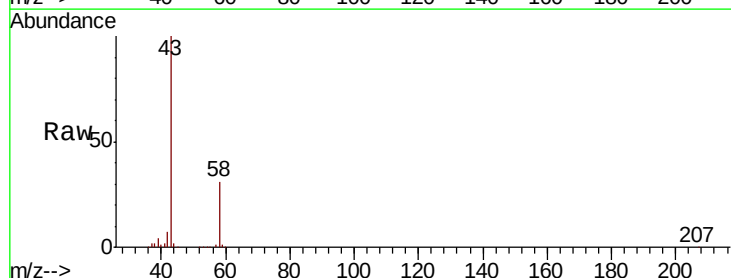
Acq: 20 Jul 2020 14:05

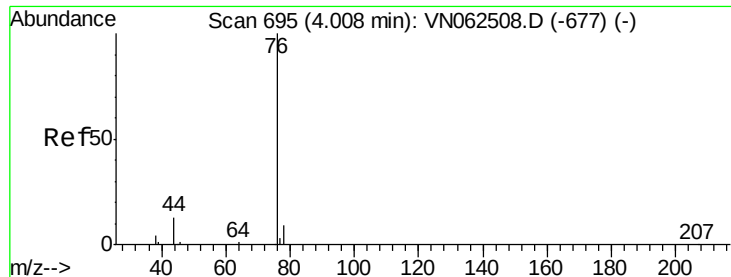
Tgt Ion: 58 Resp: 516875

Ion Ratio Lower Upper

58 100

43 321.5 261.1 391.7

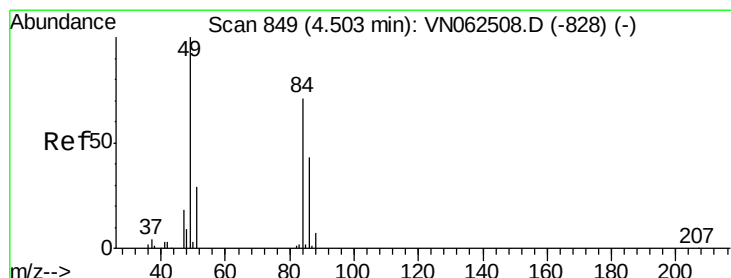
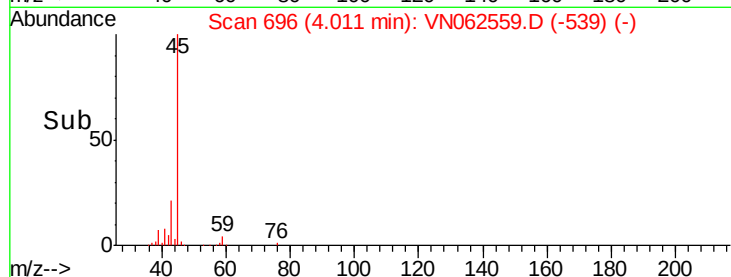
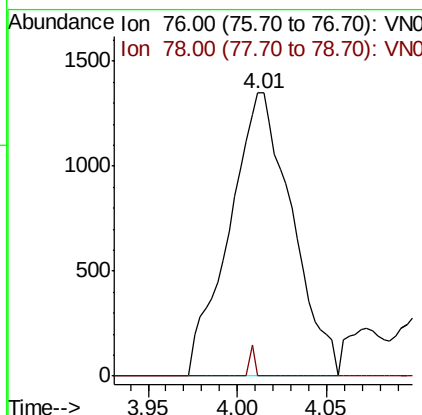
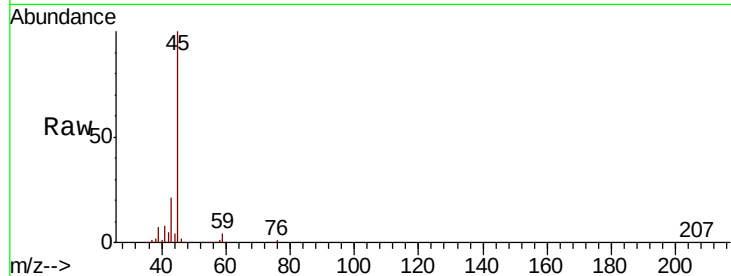




#16
Carbon Disulfide
Concen: 0.487 ug/l
RT: 4.01 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

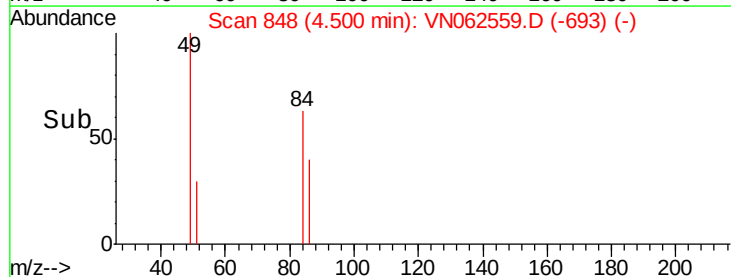
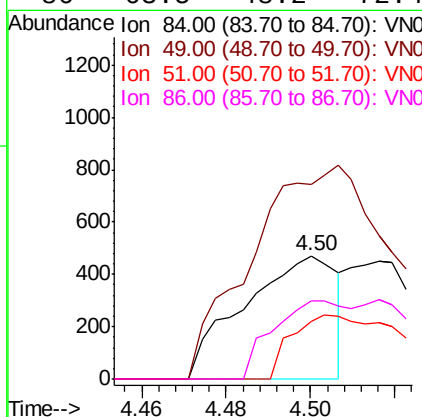
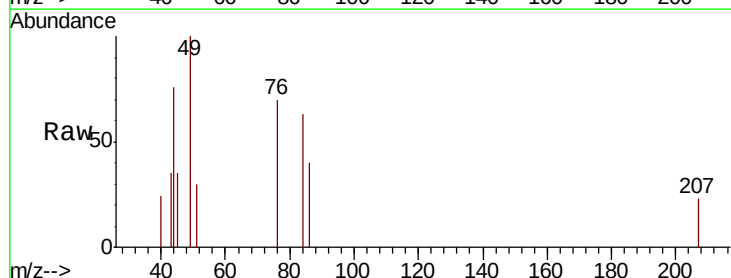
Instrument :
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002-35TH-AVE-(JULY)

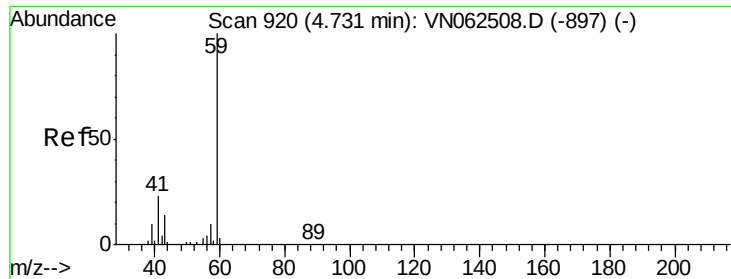
Tot Ion: 76 Resp: 3298
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methylene Chloride
Concen: 0.281 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Tgt Ion: 84 Resp: 719
Ion Ratio Lower Upper
84 100
49 158.0 112.1 168.1
51 46.9 33.0 49.4
86 63.5 48.2 72.4



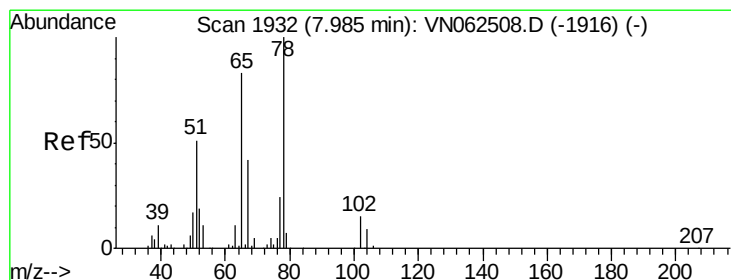
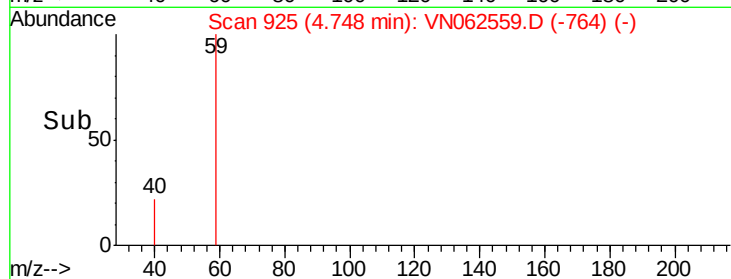
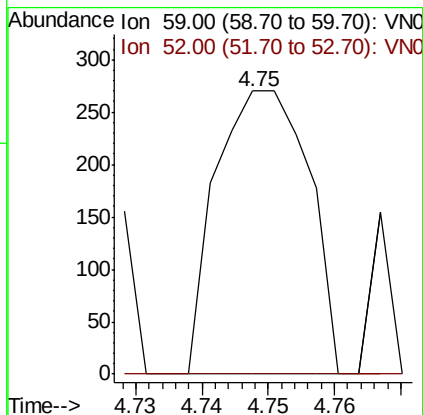
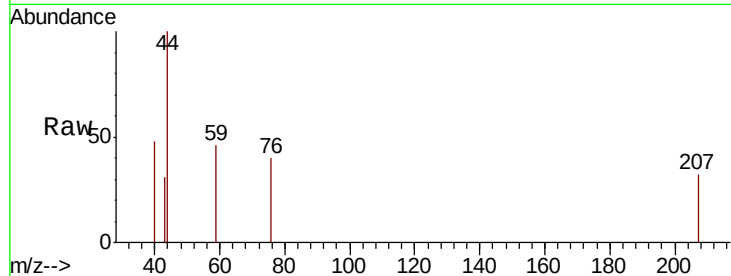


#23

tert-Butyl Alcohol
 Concen: 0.607 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

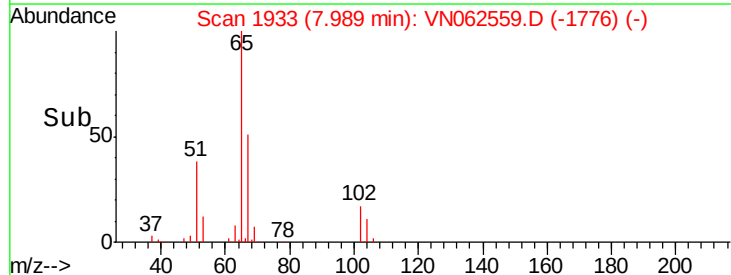
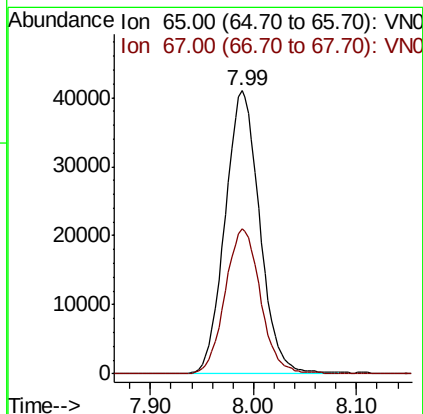
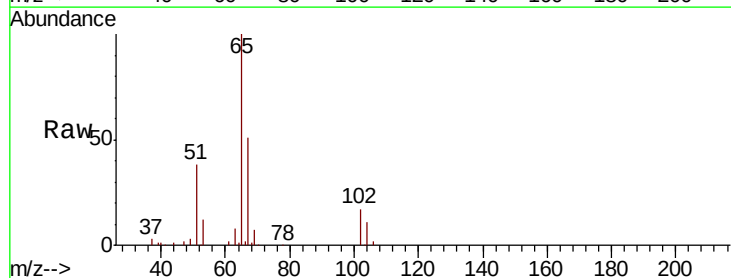
Tot Ion: 59 Resp: 263
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

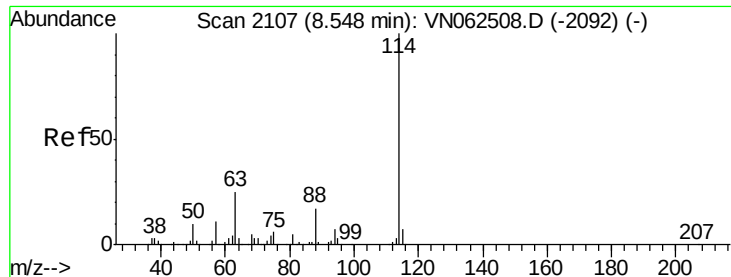


#27

1,2-Dichloroethane-d4
 Concen: 31.036 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Tgt Ion: 65 Resp: 96141
 Ion Ratio Lower Upper
 65 100
 67 52.1 41.7 62.5

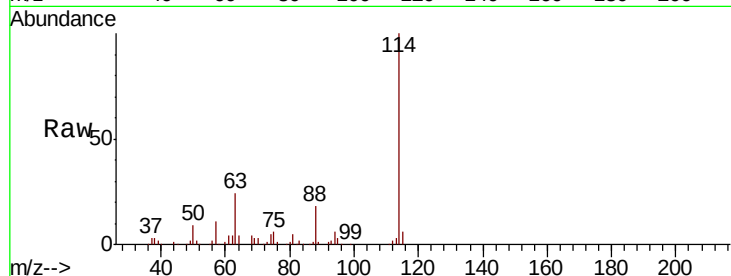




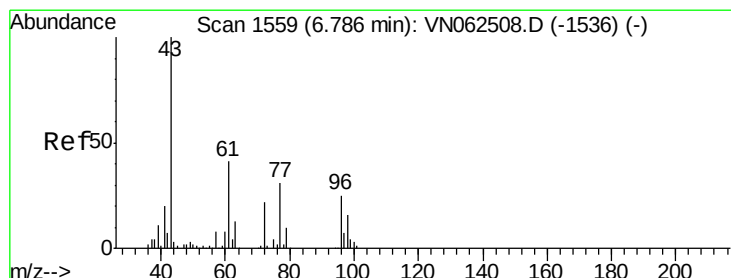
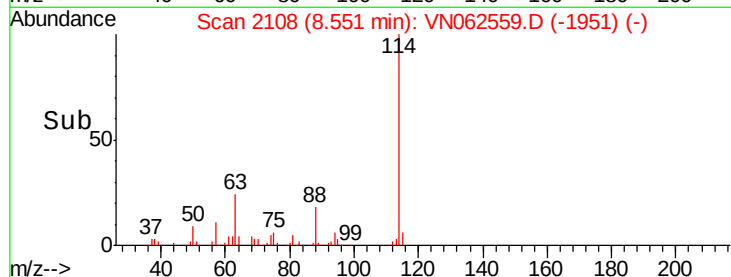
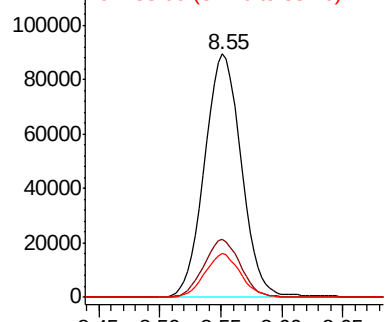
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.0
88	17.4	13.5	20.3

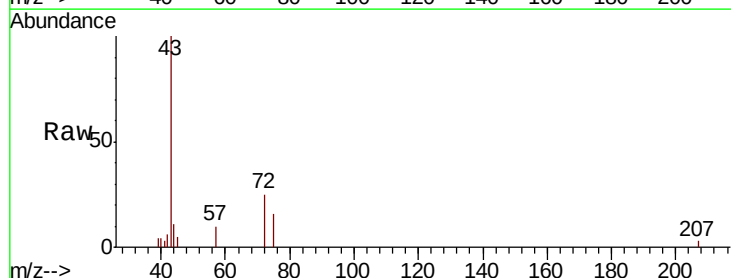


Abundance Ion 114.00 (113.70 to 114.70): VN062508.D (-2092) (-)

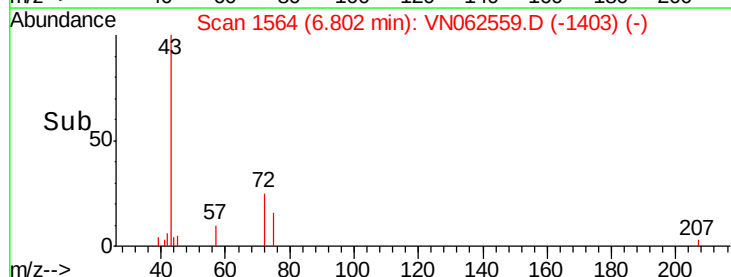
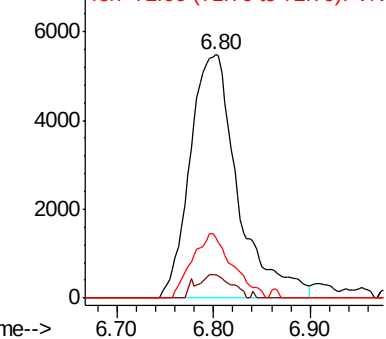


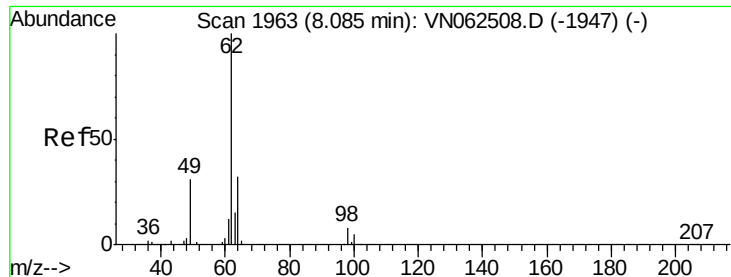
#30
 2-Butanone
 Concen: 11.173 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. 0.02 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Tgt Ion	Ratio	Lower	Upper
43	100		
57	6.1	6.6	9.8#
72	21.6	18.5	27.7



Abundance Ion 43.00 (42.70 to 43.70): VN062508.D (-1536) (-)

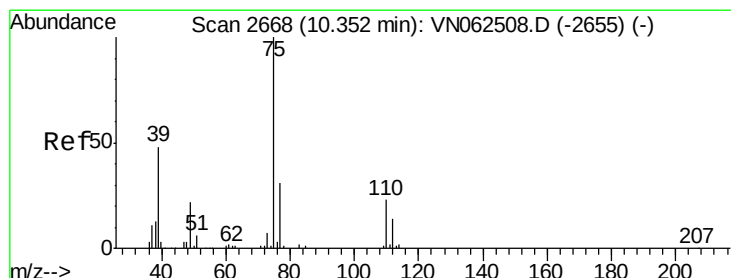
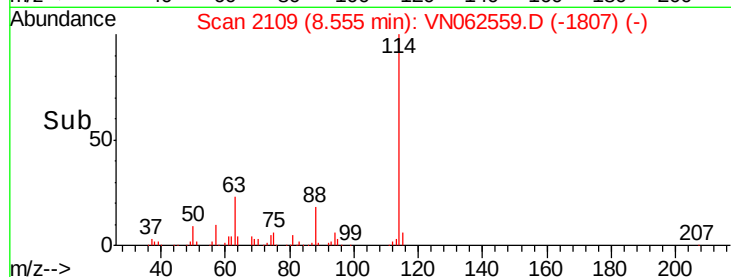
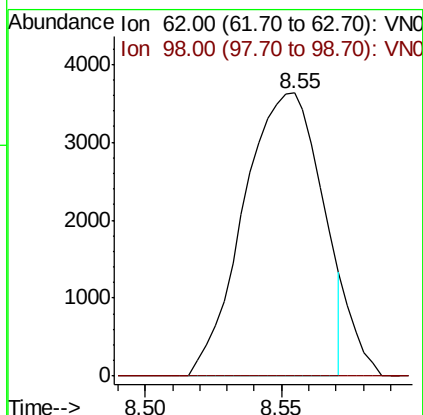
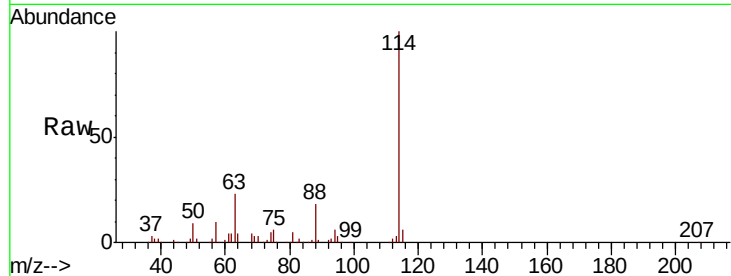




#36
 1,2-Dichloroethane
 Concen: 2.124 ug/l
 RT: 8.55 min Scan# 2109
 Delta R.T. 0.47 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

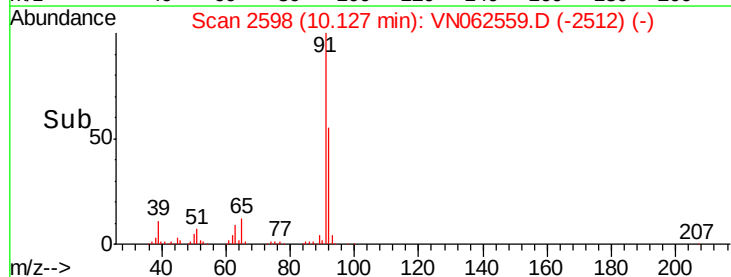
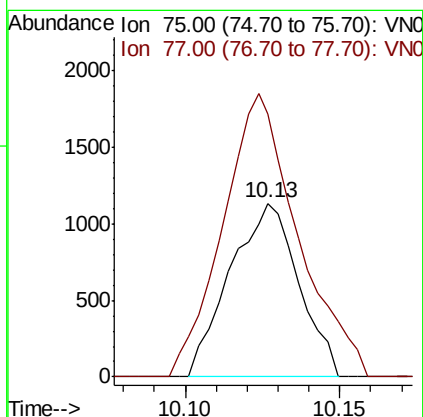
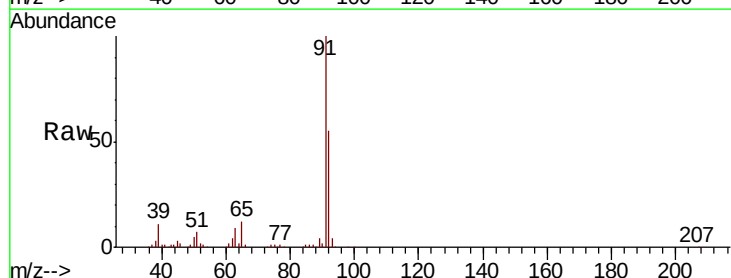
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

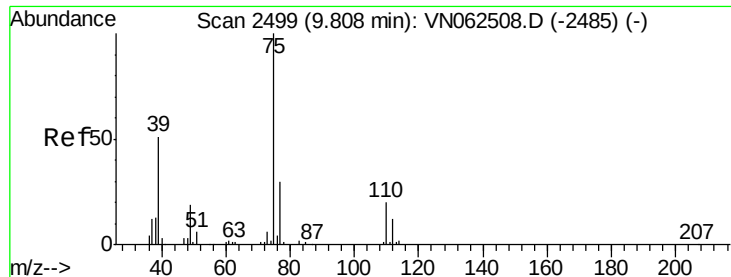
Tot Ion: 62 Resp: 7209
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.6 9.8#



#48
 t-1,3-Dichloropropene
 Concen: 0.455 ug/l
 RT: 10.13 min Scan# 2598
 Delta R.T. -0.22 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Tgt Ion: 75 Resp: 1746
 Ion Ratio Lower Upper
 75 100
 77 128.6 25.0 37.4#





#49

cis-1,3-Dichloropropene

Concen: 0.422 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.32 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE-(JULY)

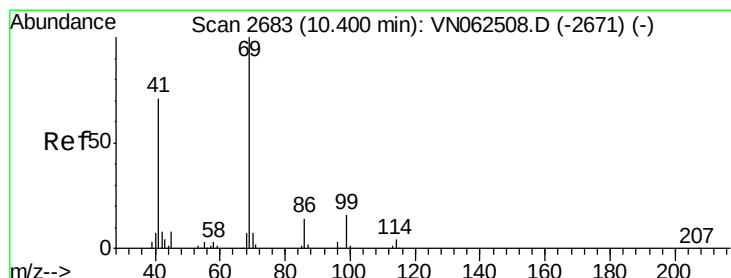
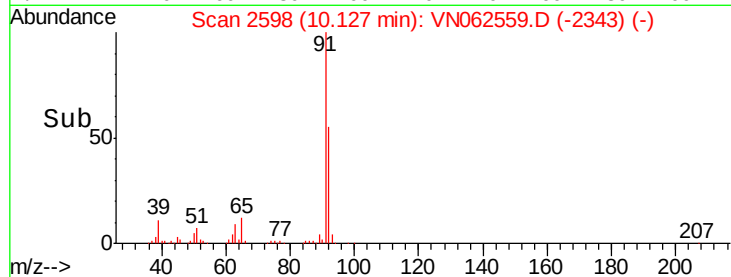
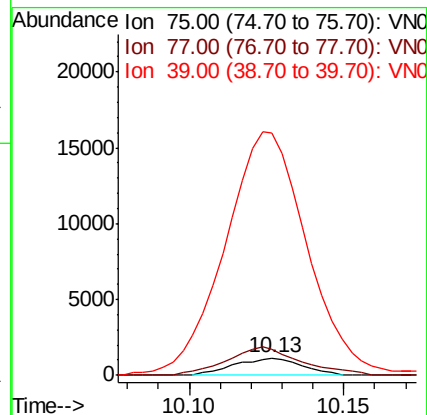
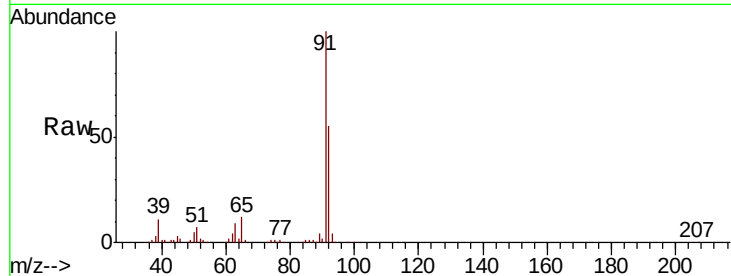
Tot Ion: 75 Resp: 1746

Ion Ratio Lower Upper

75 100

77 128.6 23.7 35.5#

39 1200.7 40.5 60.7#



#51

Ethyl methacrylate

Concen: 0.216 ug/l

RT: 10.07 min Scan# 2579

Delta R.T. -0.33 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

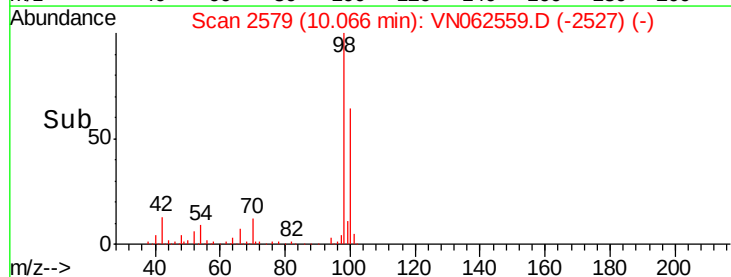
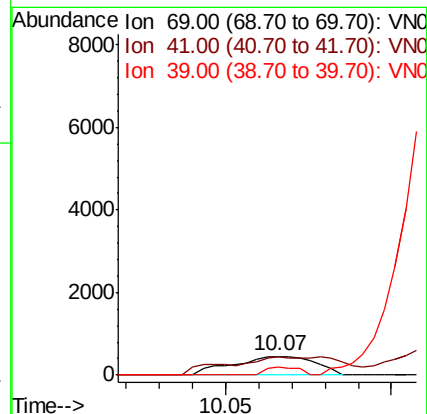
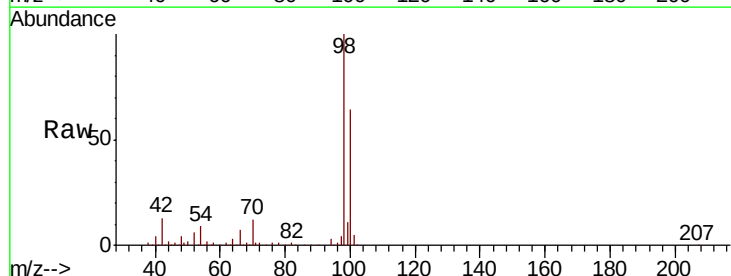
Tgt Ion: 69 Resp: 790

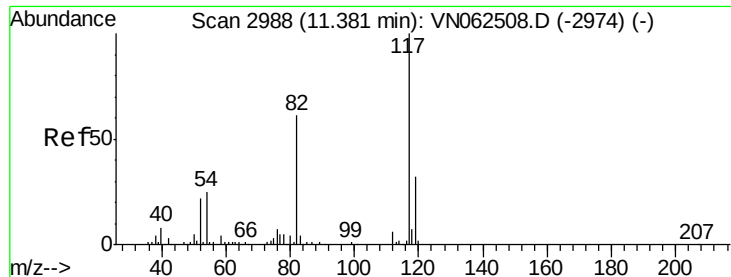
Ion Ratio Lower Upper

69 100

41 53.0 35.6 106.8

39 41.8 17.2 51.5

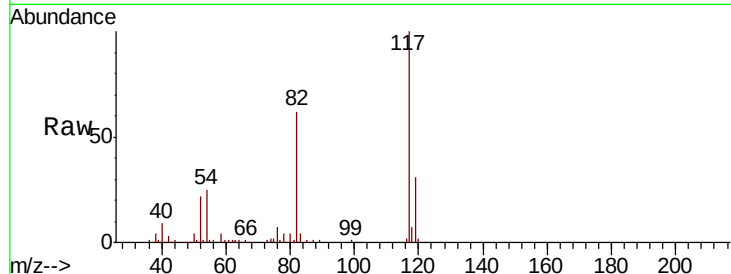




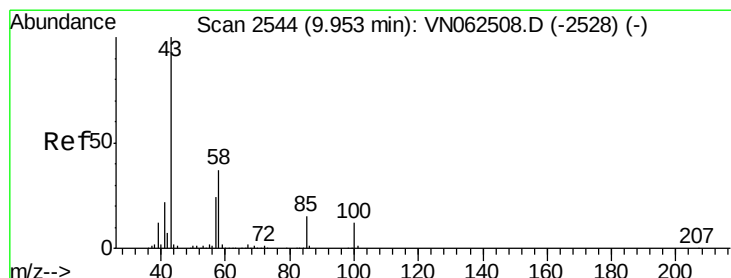
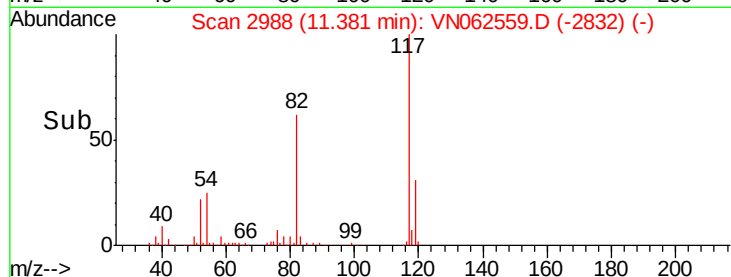
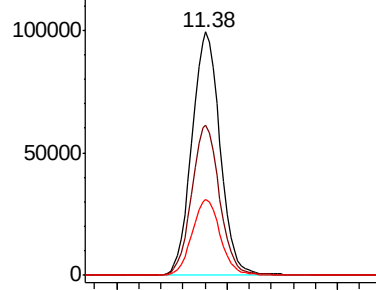
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	49.0	73.6
119	31.3	25.6	38.4

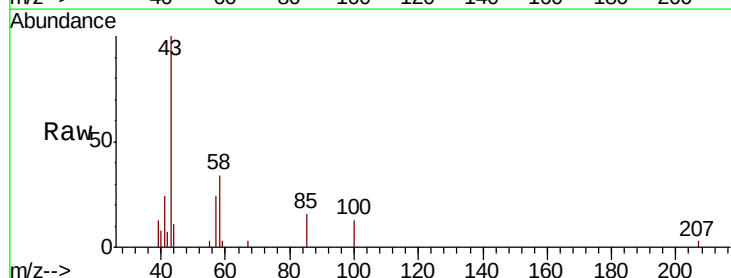


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

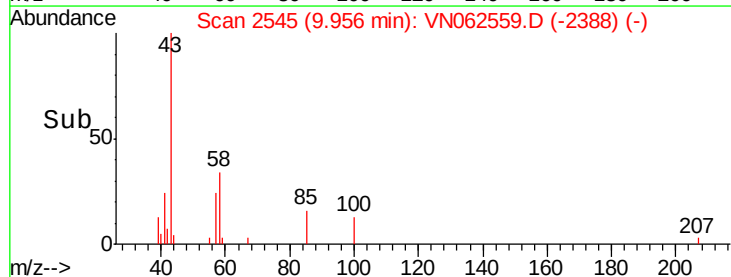
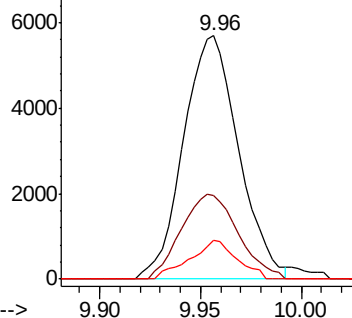


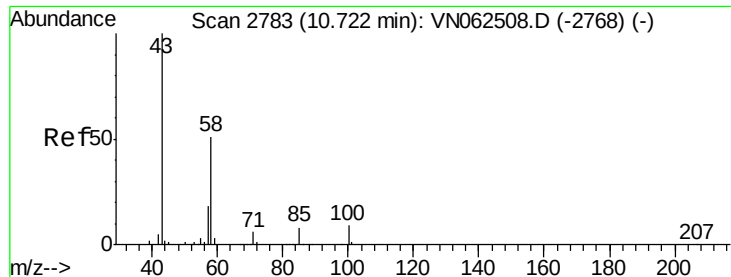
#58
4-Methyl-2-Pentanone
Concen: 3.168 ug/l
RT: 9.96 min Scan# 2545
Delta R.T. 0.00 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.6	44.4
85	13.6	12.0	18.0



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V





#59

2-Hexanone

Concen: 0.793 ug/l

RT: 10.73 min Scan# 2785

Delta R.T. 0.01 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE-(JULY)

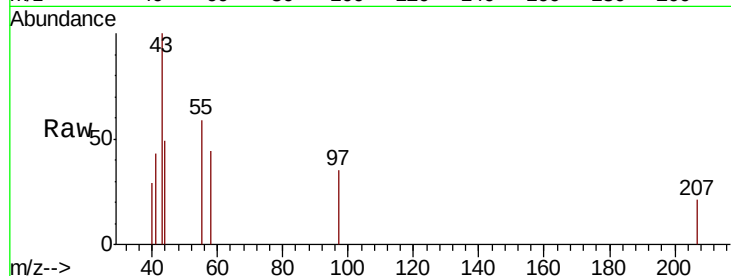
Tot Ion: 43 Resp: 1997

Ion Ratio Lower Upper

43 100

58 32.2 41.2 61.8#

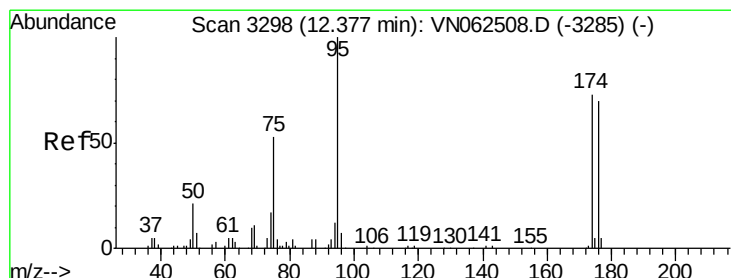
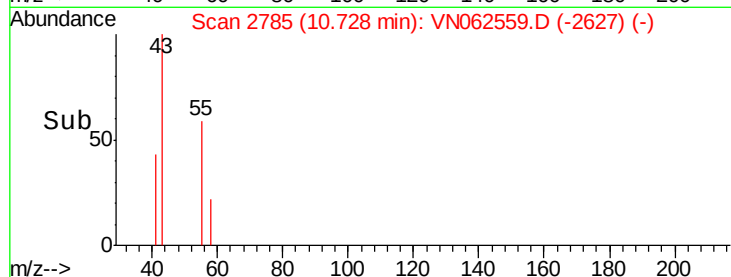
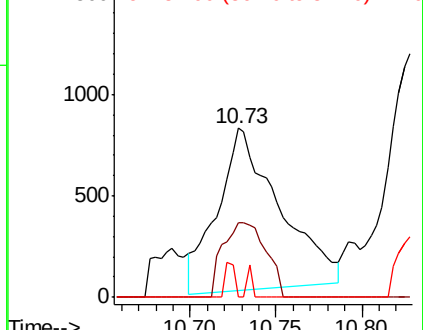
57 3.2 14.4 21.6#



Abundance Ion 43.00 (42.70 to 43.70): VN062508.D (-2768) (-)

Ion 58.00 (57.70 to 58.70): VN062508.D (-2768) (-)

Ion 57.00 (56.70 to 57.70): VN062508.D (-2768) (-)



#60

4-Bromofluorobenzene

Concen: 26.267 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

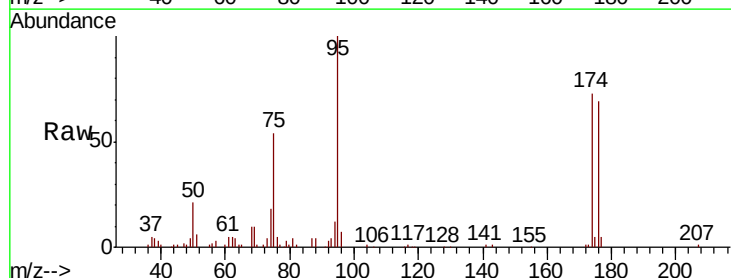
Tgt Ion: 95 Resp: 78823

Ion Ratio Lower Upper

95 100

174 74.0 57.5 86.3

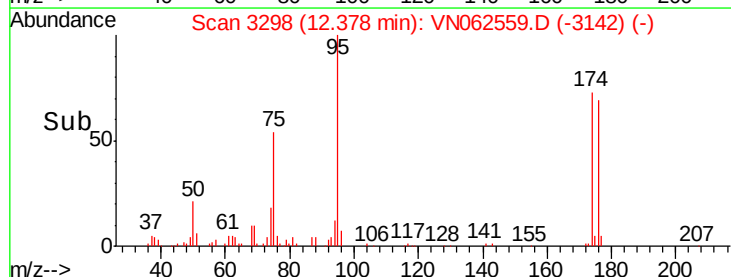
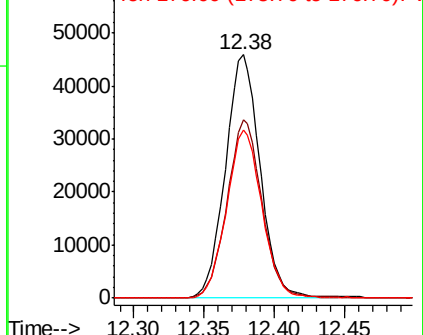
176 70.5 56.3 84.5

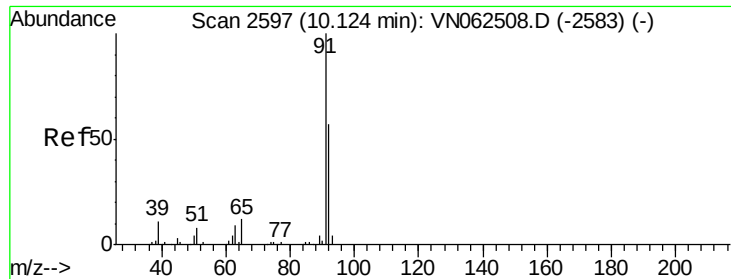


Abundance Ion 95.00 (94.70 to 95.70): VN062508.D (-3285) (-)

Ion 174.00 (173.70 to 174.70): VN062508.D (-3285) (-)

Ion 176.00 (175.70 to 176.70): VN062508.D (-3285) (-)





#62

Toluene

Concen: 27.271 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

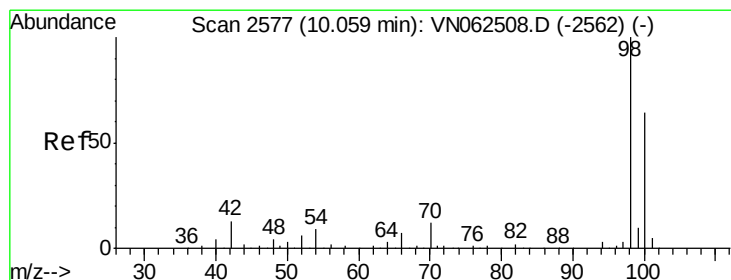
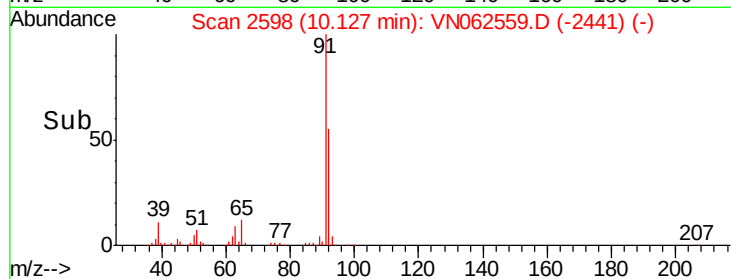
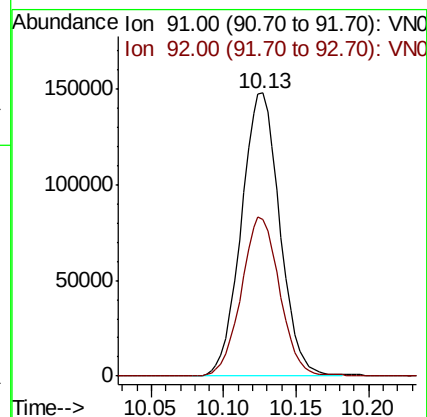
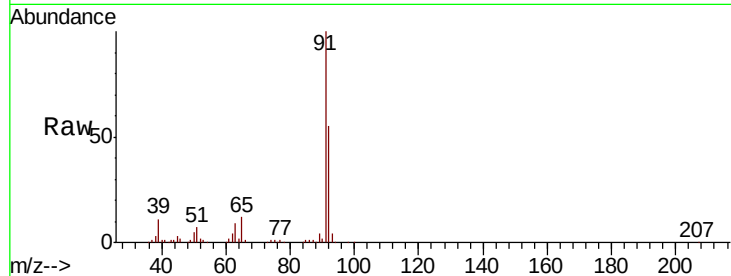
002-35TH-AVE-(JULY)

Tot Ion: 91 Resp: 272819

Ion Ratio Lower Upper

91 100

92 56.1 45.8 68.6



#63

Toluene-d8

Concen: 28.864 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062559.D

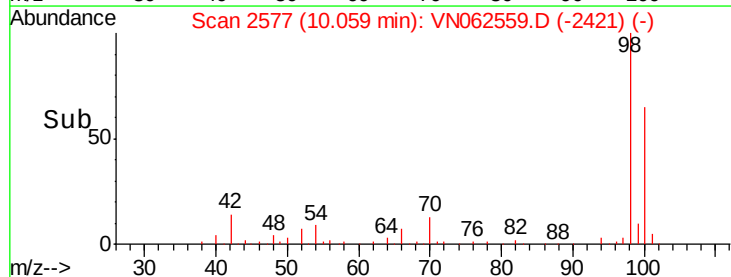
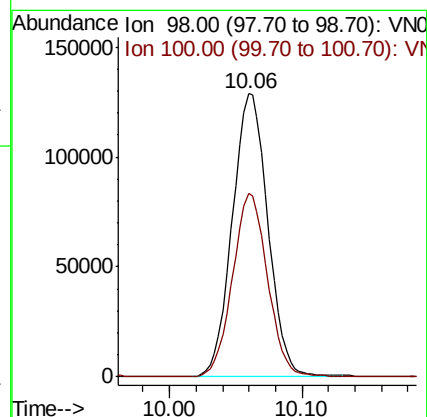
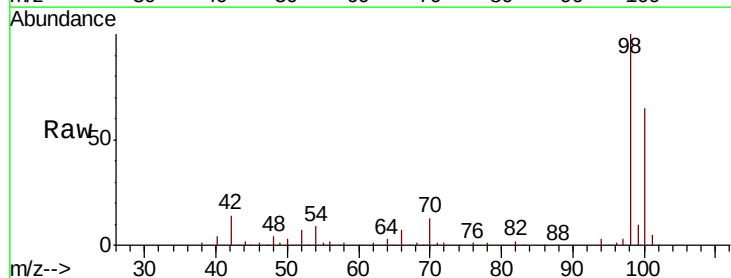
Acq: 20 Jul 2020 14:05

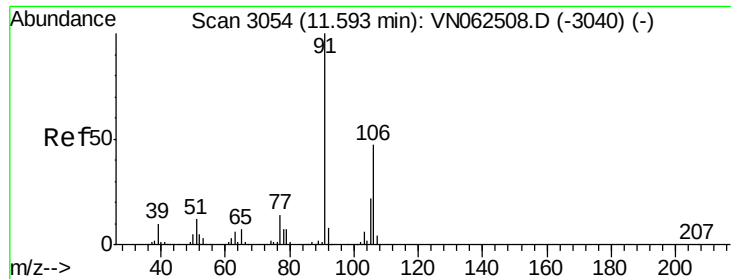
Tgt Ion: 98 Resp: 240514

Ion Ratio Lower Upper

98 100

100 63.7 50.4 75.6

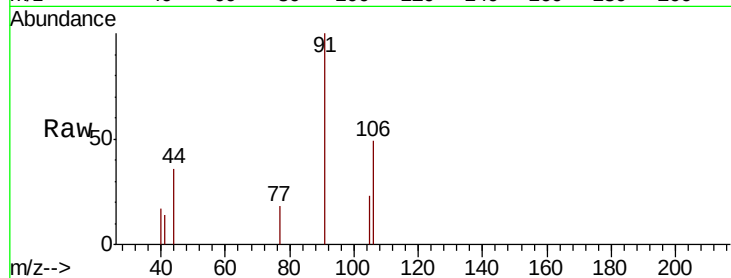




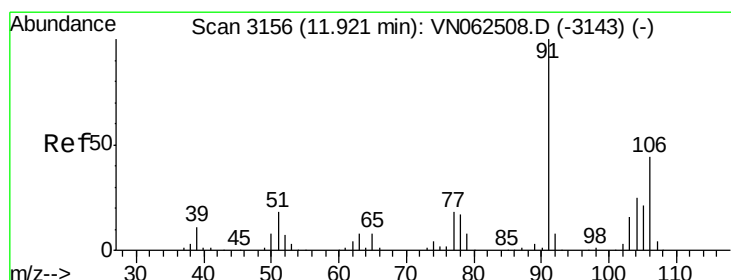
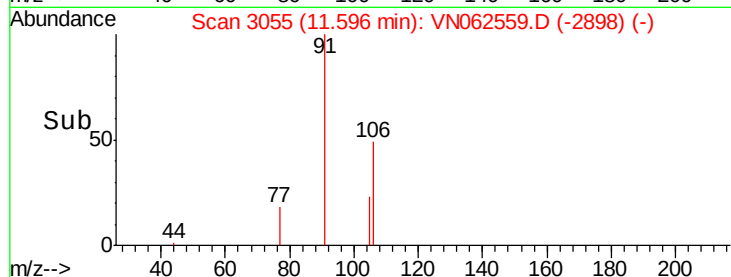
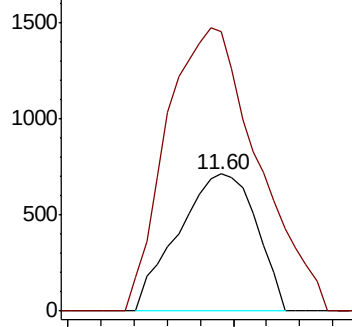
#67
m/p-Xylenes
Concen: 0.291 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. 0.00 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

Tot Ion:106 Resp: 1169
Ion Ratio Lower Upper
106 100
91 241.5 170.7 256.1

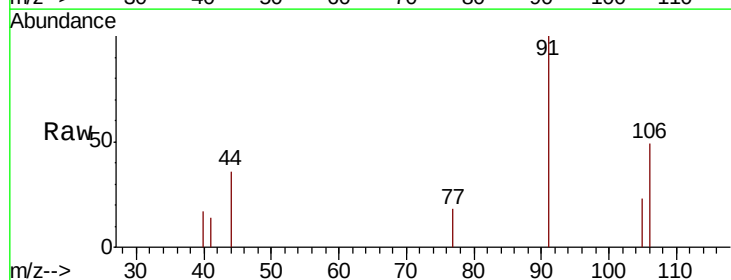


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

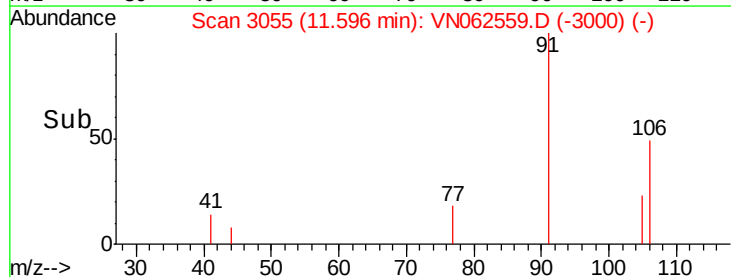
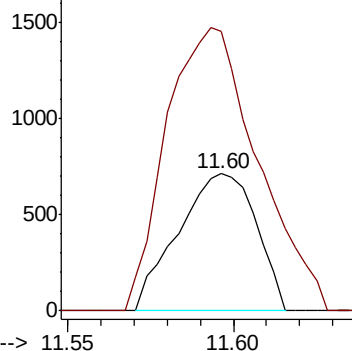


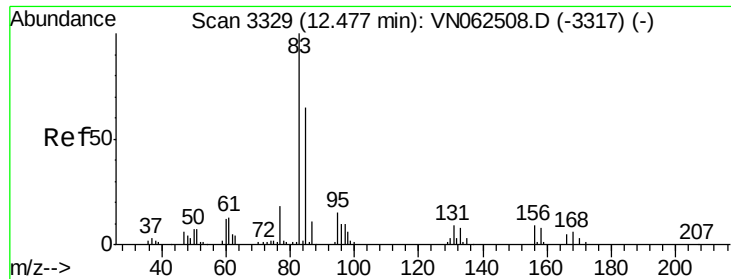
#68
o-Xylene
Concen: 0.303 ug/l
RT: 11.60 min Scan# 3055
Delta R.T. -0.32 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Tgt Ion:106 Resp: 1169
Ion Ratio Lower Upper
106 100
91 241.5 113.9 341.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

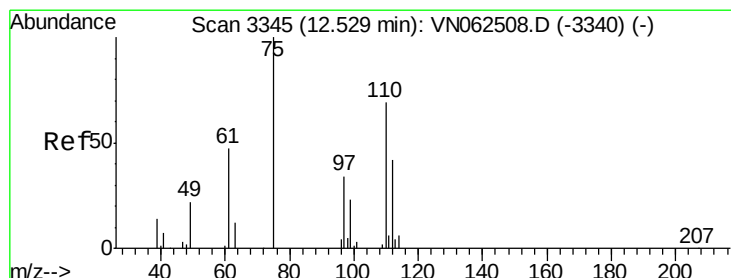
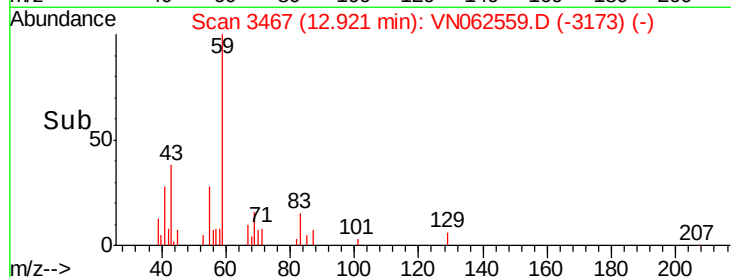
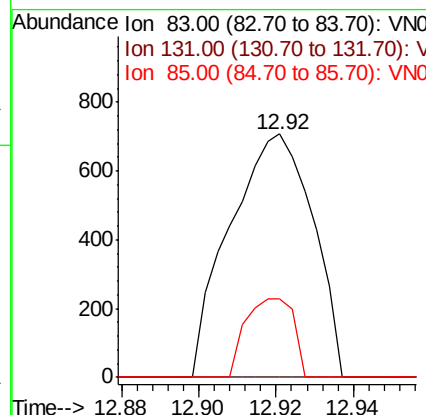
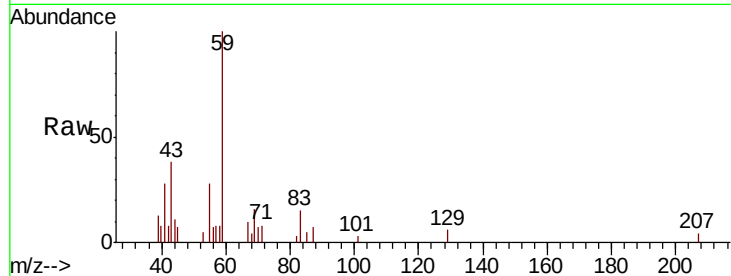




#71
 1,1,2,2-Tetrachloroethane
 Concen: 0.314 ug/l
 RT: 12.92 min Scan# 3467
 Delta R.T. 0.44 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

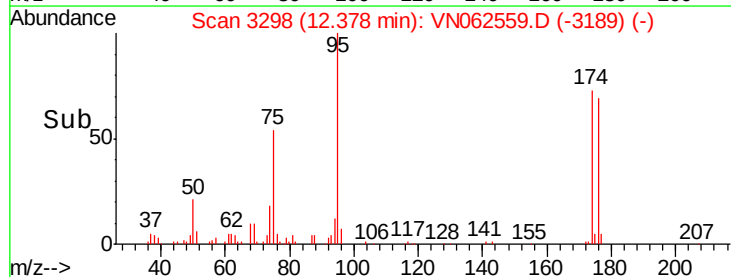
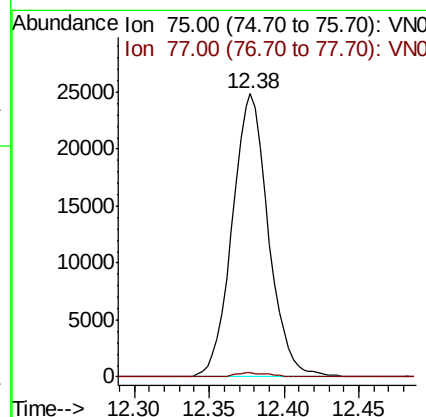
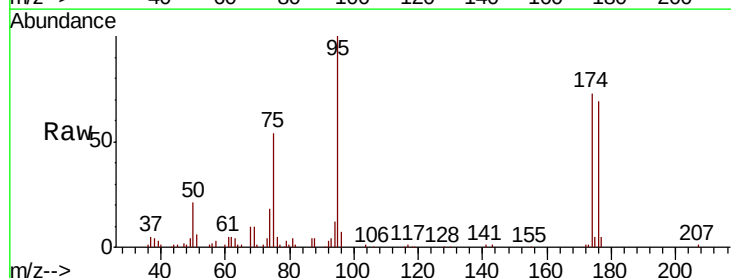
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE-(JULY)

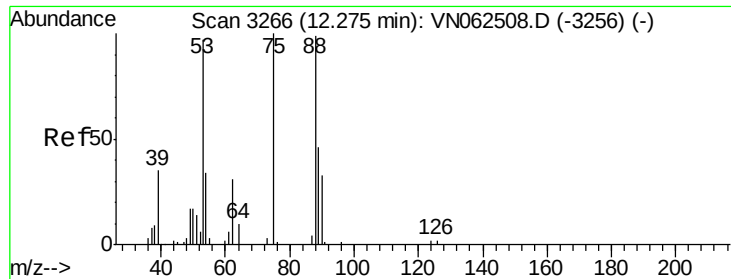
Tot Ion: 83 Resp: 1052
 Ion Ratio Lower Upper
 83 100
 131 0.0 4.5 13.7#
 85 18.6 32.5 97.4#



#72
 1,2,3-Trichloropropane
 Concen: 12.833 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062559.D
 Acq: 20 Jul 2020 14:05

Tgt Ion: 75 Resp: 41790
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 376.2

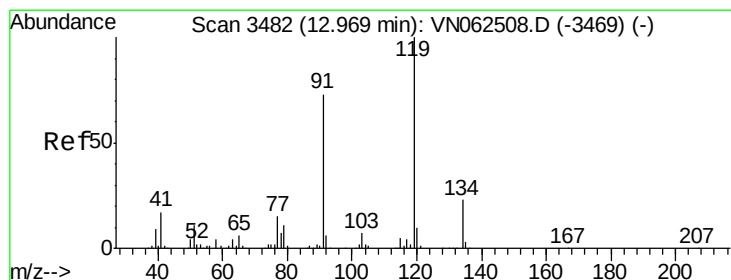
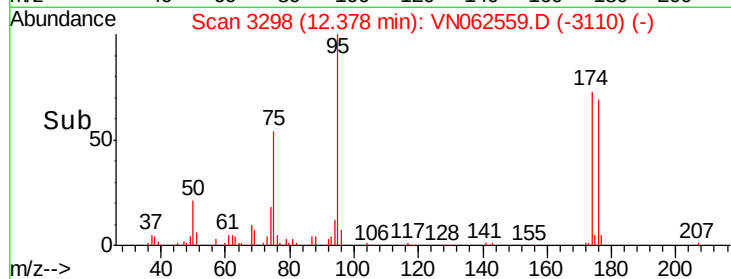
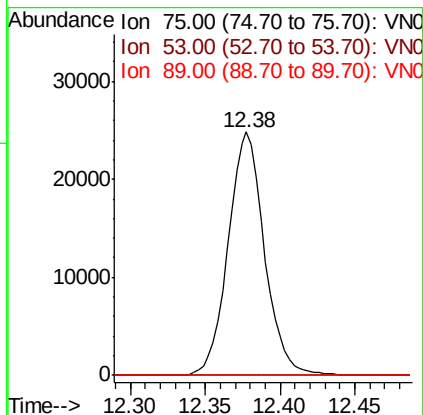
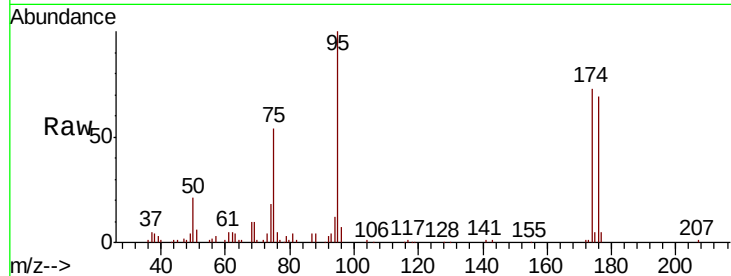




#77
t-1,4-Dichloro-2-butene
Concen: 34.312 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

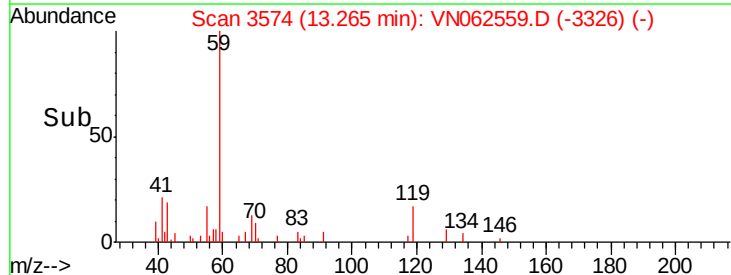
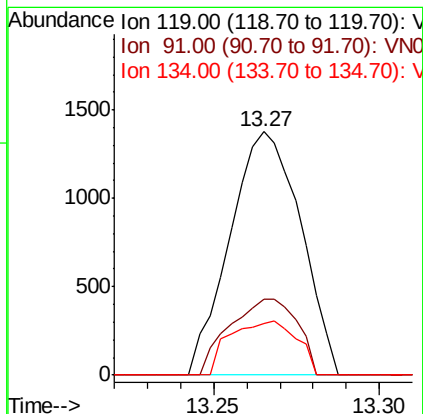
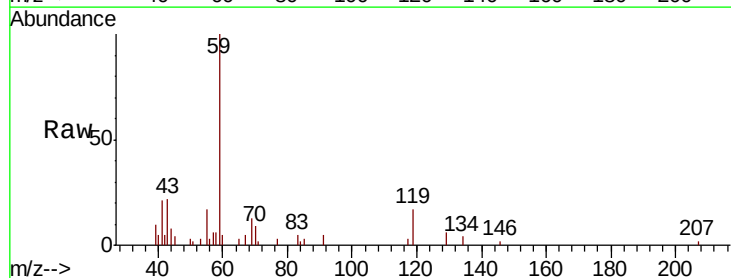
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE-(JULY)

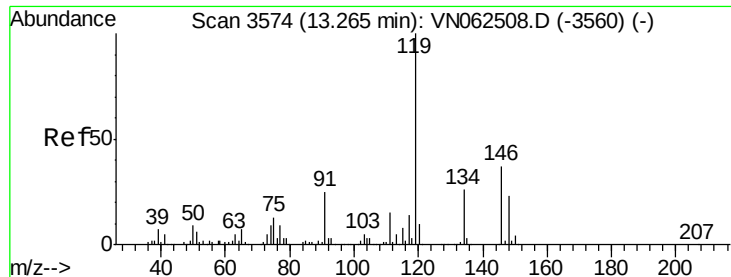
Tot Ion: 75 Resp: 41790
Ion Ratio Lower Upper
75 100
53 0.0 48.3 144.8#
89 0.0 23.3 69.8#



#79
tert-butylbenzene
Concen: 0.280 ug/l
RT: 13.27 min Scan# 3574
Delta R.T. 0.30 min
Lab File: VN062559.D
Acq: 20 Jul 2020 14:05

Tgt Ion: 119 Resp: 2044
Ion Ratio Lower Upper
119 100
91 29.9 0.0 139.8
134 20.9 0.0 45.0





#82

p-Isopropyltoluene

Concen: 0.236 ug/l

RT: 13.27 min Scan# 3574

Delta R.T. 0.00 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE-(JULY)

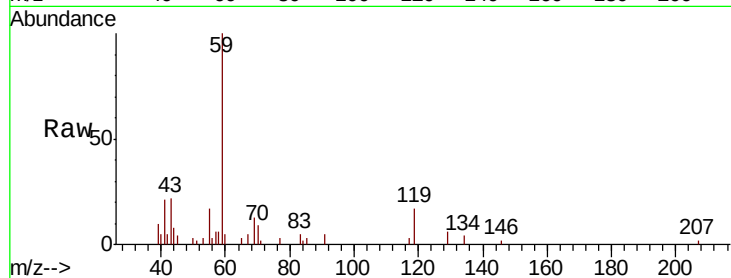
Tot Ion:119 Resp: 2044

Ion Ratio Lower Upper

119 100

134 20.9 0.0 50.8

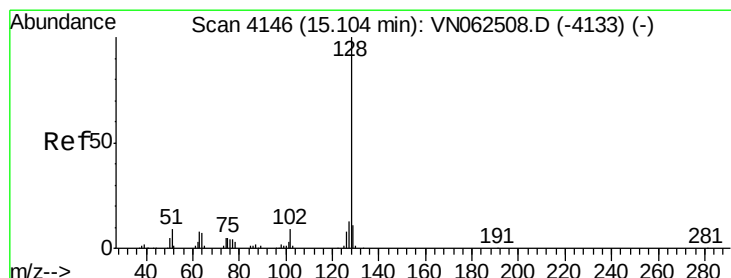
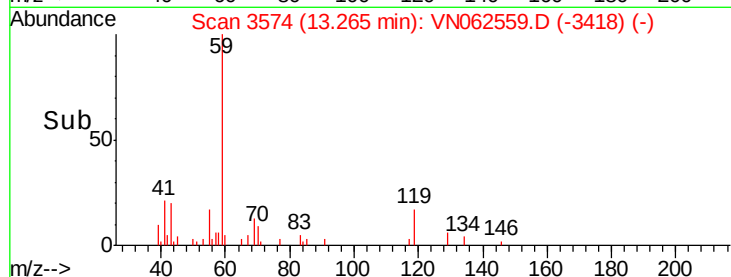
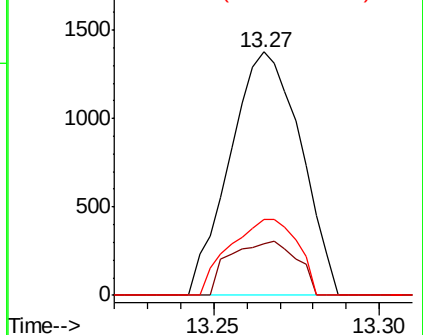
91 29.9 0.0 51.2



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#91

Naphthalene

Concen: 0.555 ug/l

RT: 15.11 min Scan# 4147

Delta R.T. 0.00 min

Lab File: VN062559.D

Acq: 20 Jul 2020 14:05

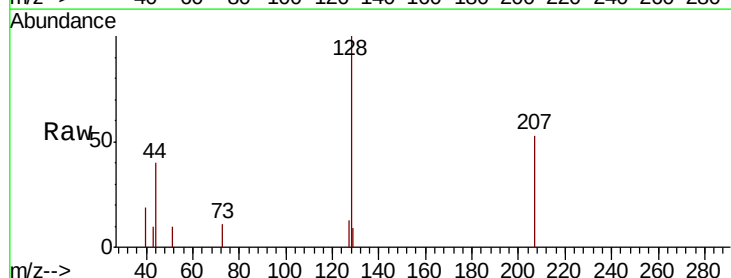
Tgt Ion:128 Resp: 3002

Ion Ratio Lower Upper

128 100

127 5.4 10.0 15.0#

129 3.4 8.8 13.2#



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

