

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071620\
 Data File : VN062548.D
 Acq On : 16 Jul 2020 15:22
 Operator : JC/MD
 Sample : L3321-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 200715084-02-VOA

Quant Time: Jul 16 18:34:20 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	38766	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	208031	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	189652	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.99	65	100260	30.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.37%
60) 4-Bromofluorobenzene	12.38	95	91107	28.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.10%
63) Toluene-d8	10.06	98	264126	29.47	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.23%

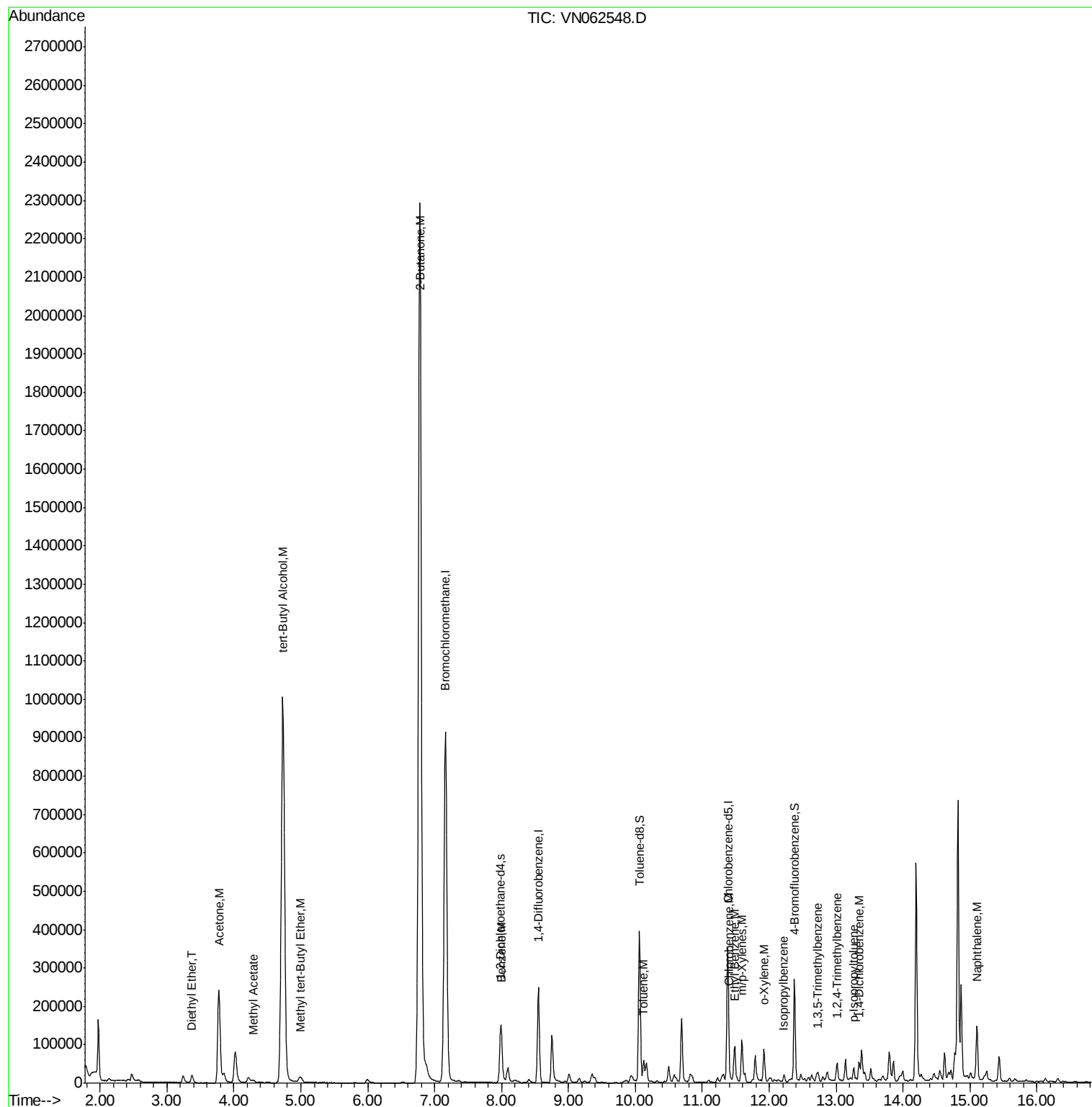
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Diethyl Ether	3.37	74	8934	5.490	ug/l	85
12) Methyl Acetate	4.29	43	11567	3.864	ug/l	96
15) Acetone	3.77	58	116471	272.487	ug/l	95
23) tert-Butyl Alcohol	4.73	59	1969793	4227.172	ug/l #	100
24) Methyl tert-Butyl Ether	5.00	73	23164	2.815	ug/l	98
30) 2-Butanone	6.78	43	1293527	691.204	ug/l	99
34) Benzene	8.00	78	40060	3.821	ug/l #	57
62) Toluene	10.13	91	39943	3.712	ug/l	99
64) Chlorobenzene	11.41	112	7140	1.129	ug/l	95
66) Ethyl Benzene	11.48	91	58425	4.904	ug/l	96
67) m/p-Xylenes	11.59	106	33462	7.738	ug/l	96
68) o-Xylene	11.92	106	19698	4.746	ug/l	96
70) Isopropylbenzene	12.22	105	6401	0.575	ug/l	99
76) 1,3,5-Trimethylbenzene	12.71	105	5875	0.619	ug/l	98
80) 1,2,4-Trimethylbenzene	13.01	105	21919	2.348	ug/l	99
82) p-Isopropyltoluene	13.26	119	17951	1.927	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	12834	2.903	ug/l	94
91) Naphthalene	15.10	128	117833	20.261	ug/l	99

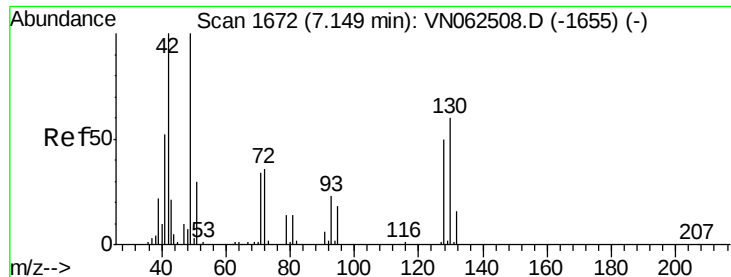
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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# 1672

Delta R.T. -0.00 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

200715084-02-VOA

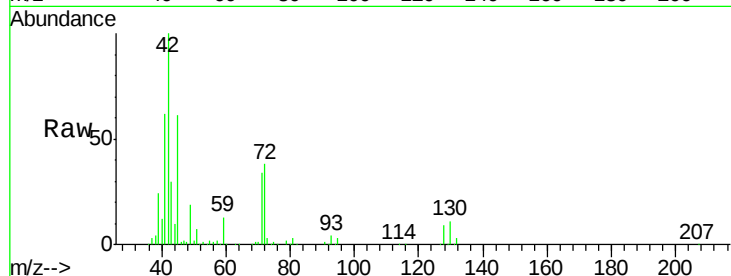
Tot Ion:128 Resp: 38766

Ion Ratio Lower Upper

128 100

49 212.5 0.0 525.0

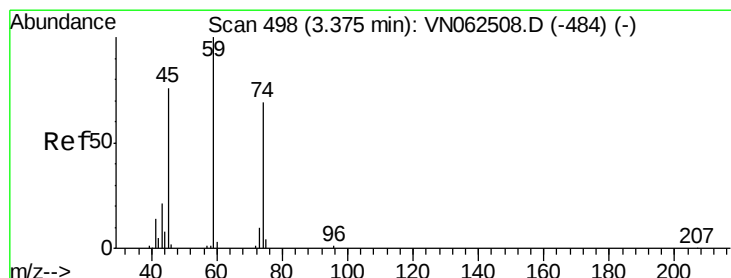
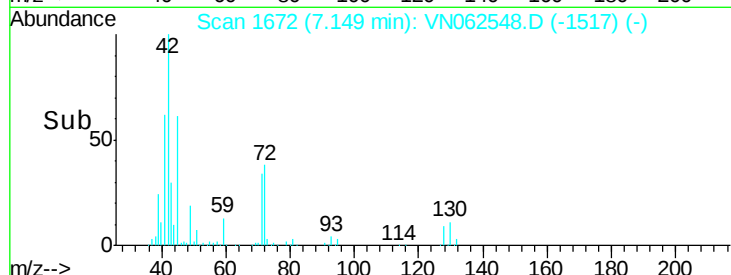
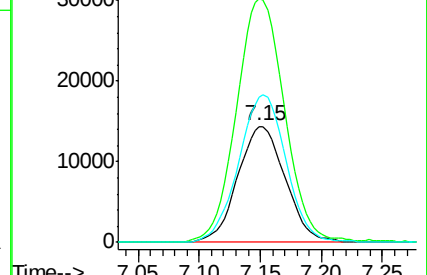
130 126.9 0.0 319.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#8

Diethyl Ether

Concen: 5.490 ug/l

RT: 3.37 min Scan# 498

Delta R.T. -0.00 min

Lab File: VN062548.D

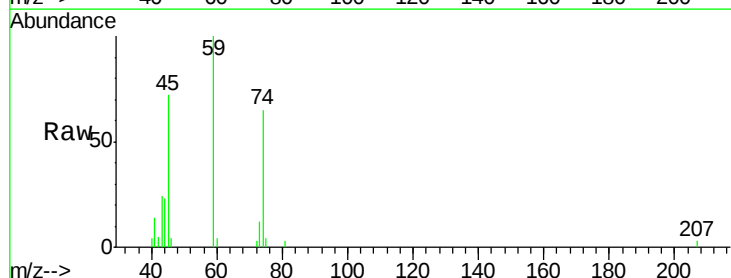
Acq: 16 Jul 2020 15:22

Tgt Ion: 74 Resp: 8934

Ion Ratio Lower Upper

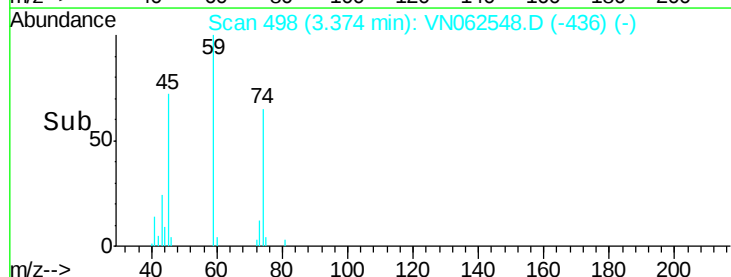
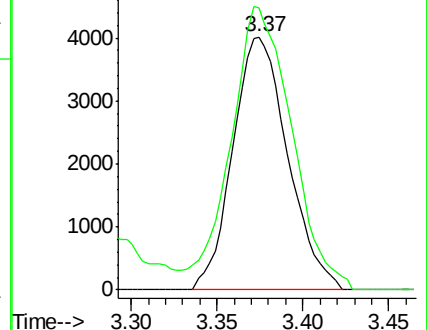
74 100

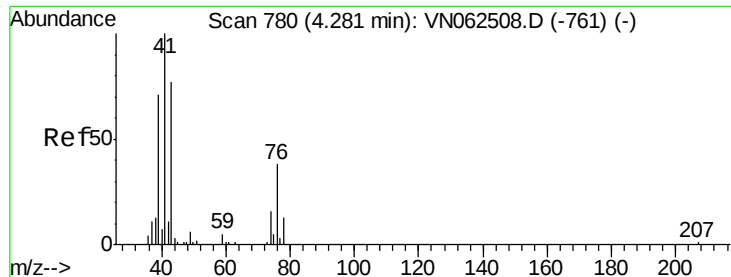
45 124.6 21.8 196.6



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#12

Methvl Acetate

Concen: 3.864 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

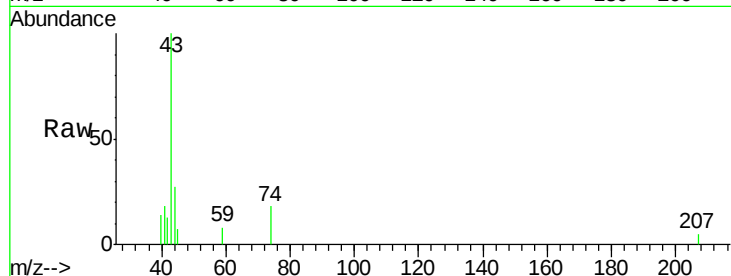
200715084-02-VOA

Tot Ion: 43 Resp: 11567

Ion Ratio Lower Upper

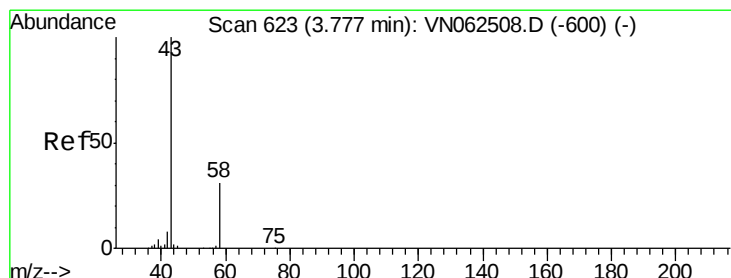
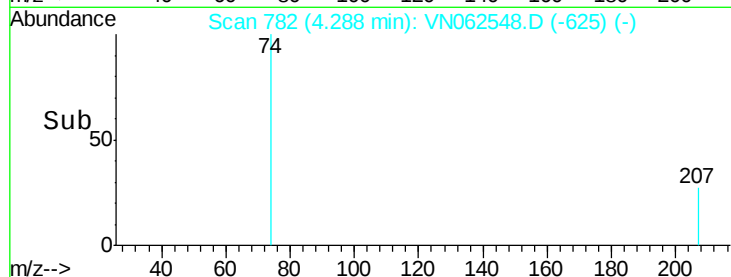
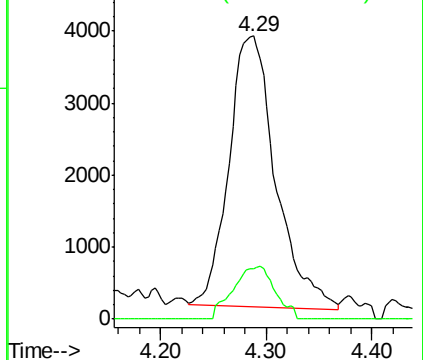
43 100

74 18.8 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#15

Acetone

Concen: 272.487 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN062548.D

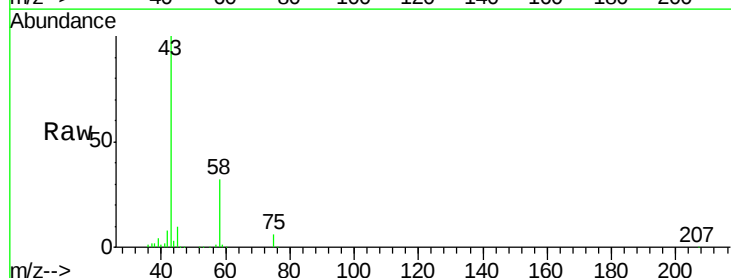
Acq: 16 Jul 2020 15:22

Tgt Ion: 58 Resp: 116471

Ion Ratio Lower Upper

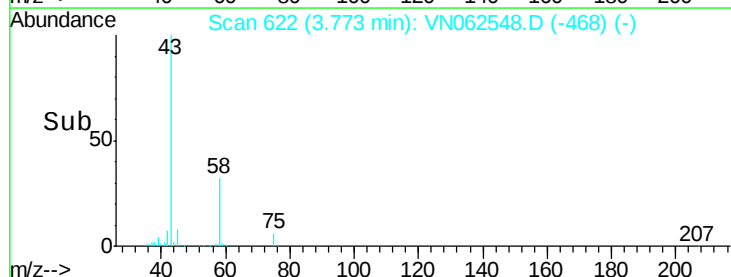
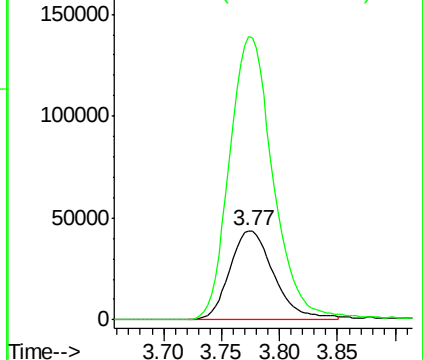
58 100

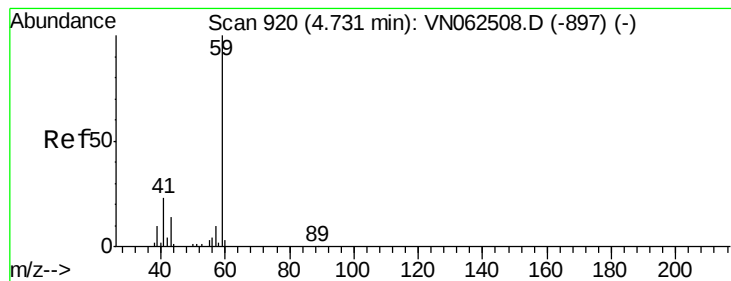
43 316.6 261.1 391.7



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#23

tert-Butyl Alcohol

Concen: 4227.172 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

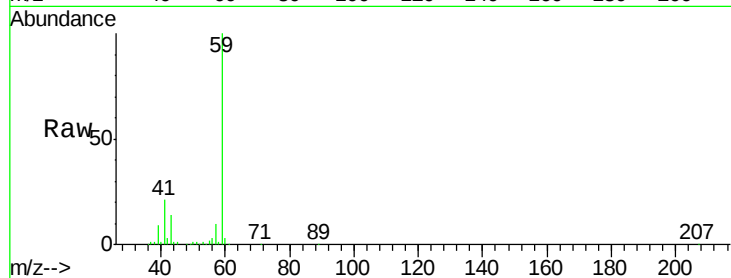
200715084-02-VOA

Tot Ion: 59 Resp: 1969793

Ion Ratio Lower Upper

59 100

52 0.1 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN062508.D (-897) (-)

Ion 52.00 (51.70 to 52.70): VN062508.D (-897) (-)

4.73

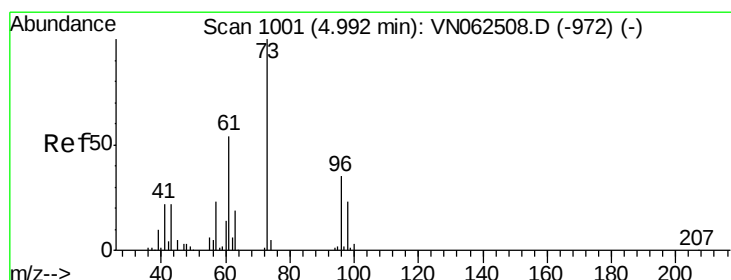
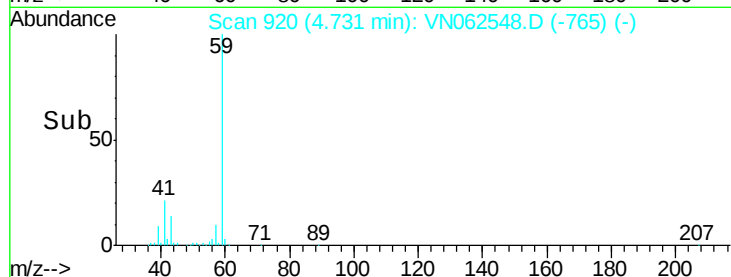
600000

400000

200000

0

Time-->



#24

Methyl tert-Butyl Ether

Concen: 2.815 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN062548.D

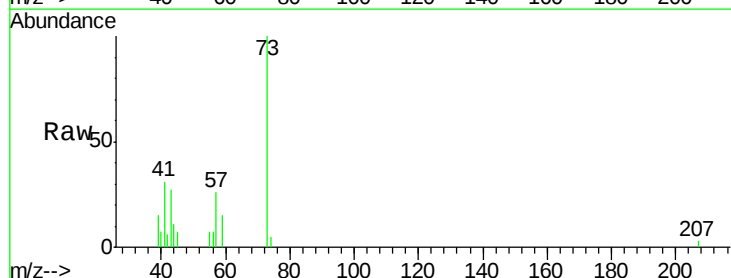
Acq: 16 Jul 2020 15:22

Tgt Ion: 73 Resp: 23164

Ion Ratio Lower Upper

73 100

43 20.2 16.9 25.3



Abundance Ion 73.00 (72.70 to 73.70): VN062508.D (-972) (-)

Ion 43.00 (42.70 to 43.70): VN062508.D (-972) (-)

5.00

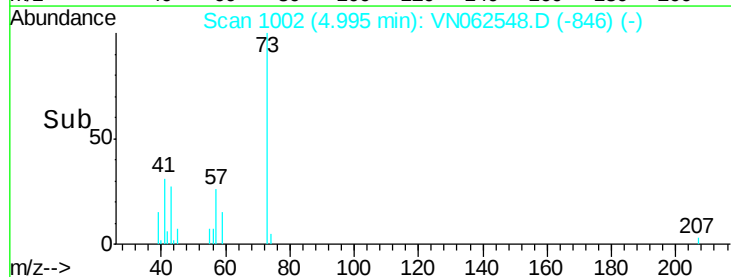
6000

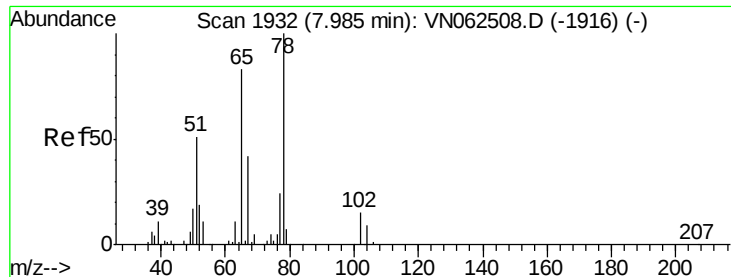
4000

2000

0

Time-->

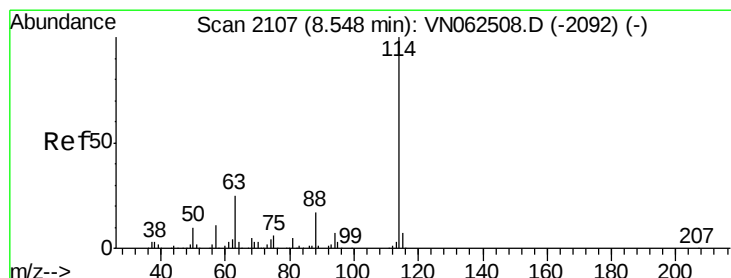
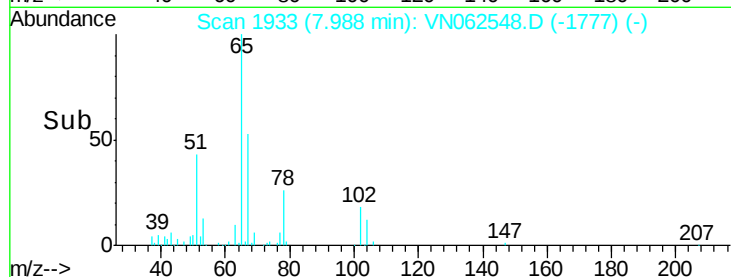
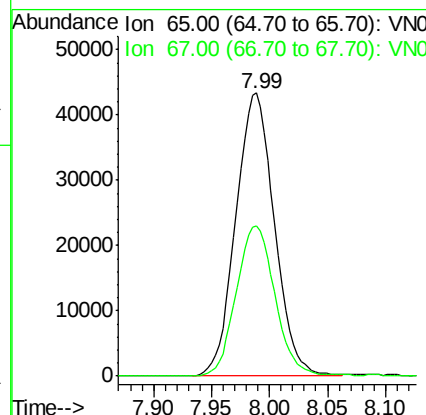
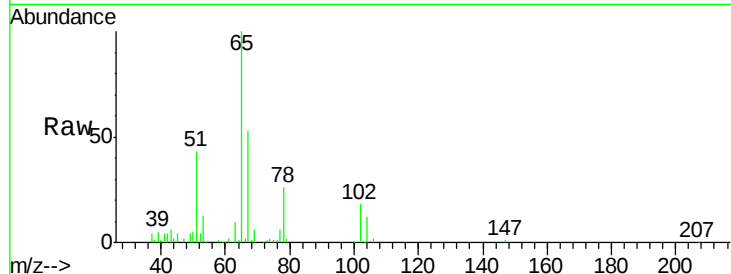




#27
 1,2-Dichloroethane-d4
 Concen: 30.106 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

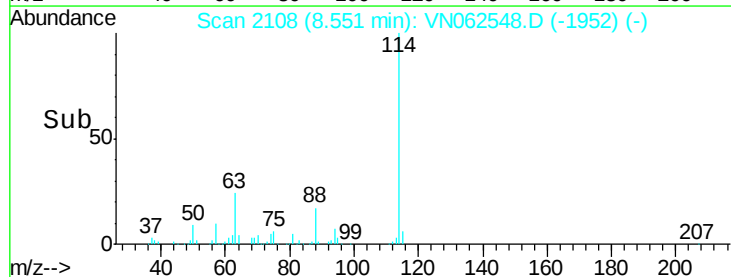
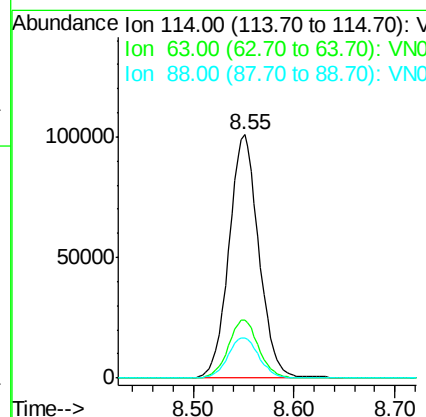
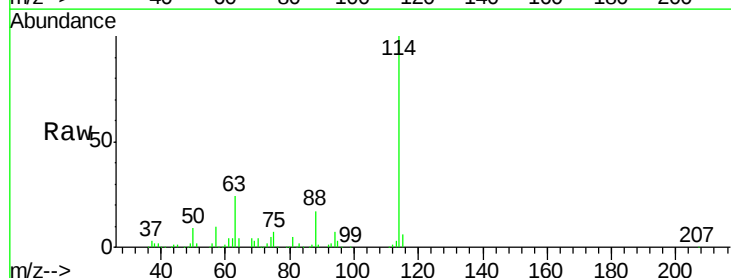
Instrument :
 MSVOA_N
 ClientSampleId :
 200715084-02-VOA

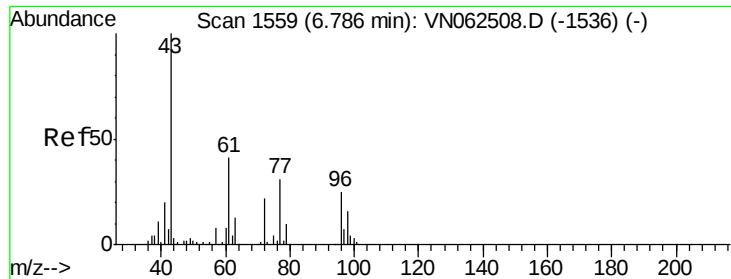
Tot Ion: 65 Resp: 100260
 Ion Ratio Lower Upper
 65 100
 67 53.1 41.7 62.5



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

Tgt Ion: 114 Resp: 208031
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.4 29.0
 88 17.2 13.5 20.3

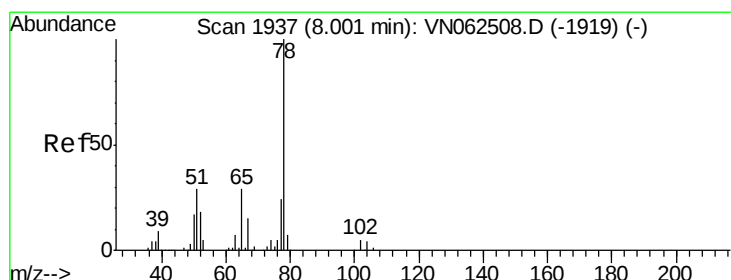
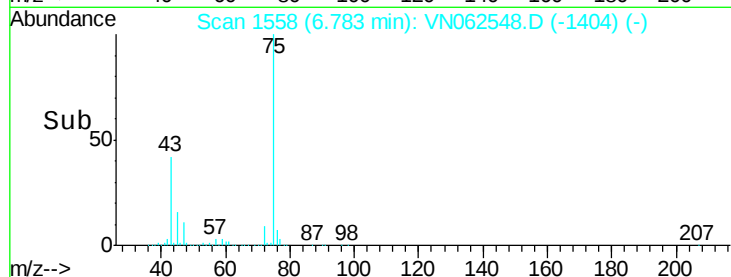
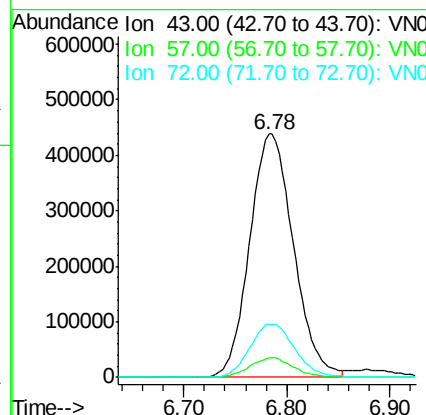
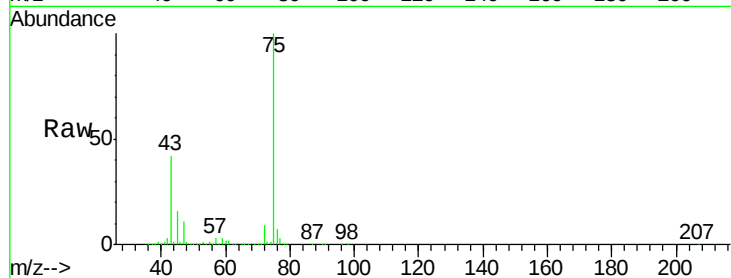




#30
2-Butanone
Concen: 691.204 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

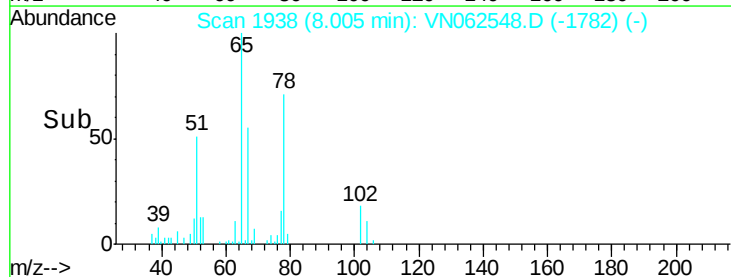
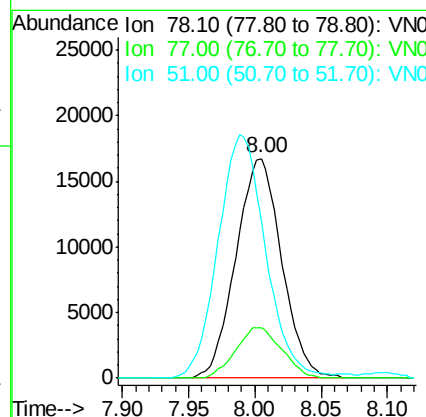
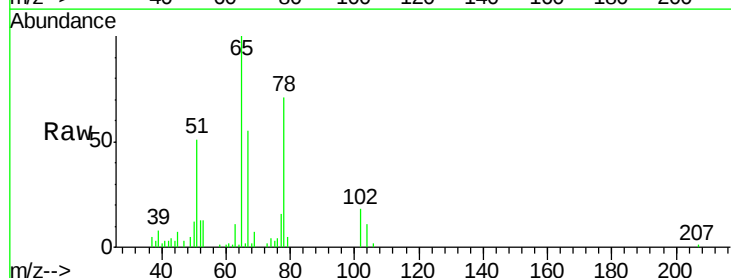
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200715084-02-VOA

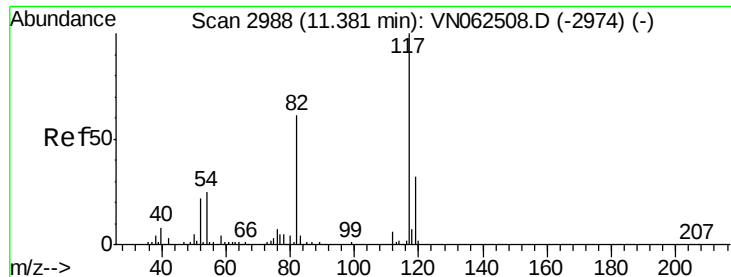
Tot Ion: 43 Resp: 1293527
Ion Ratio Lower Upper
43 100
57 8.0 6.6 9.8
72 22.5 18.5 27.7



#34
Benzene
Concen: 3.821 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

Tgt Ion: 78 Resp: 40060
Ion Ratio Lower Upper
78 100
77 22.9 18.9 28.3
51 69.7 23.1 34.7#

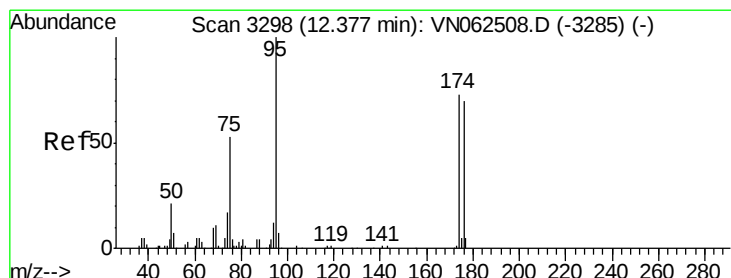
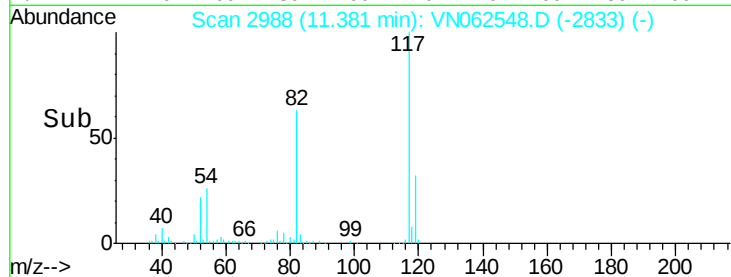
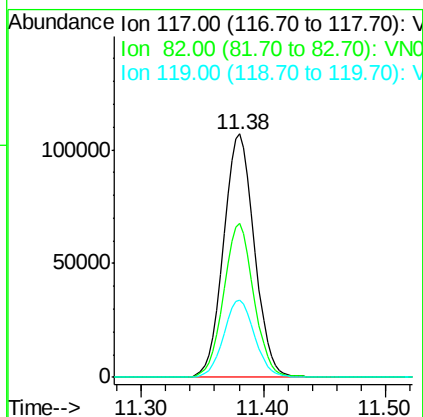
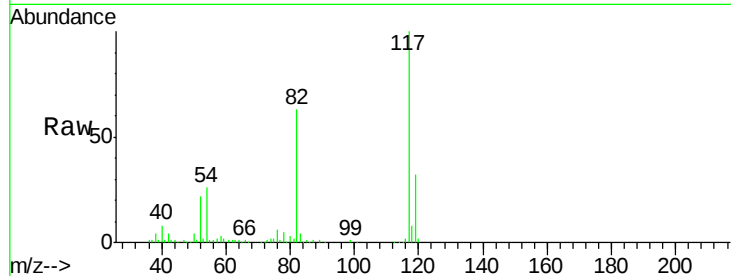




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

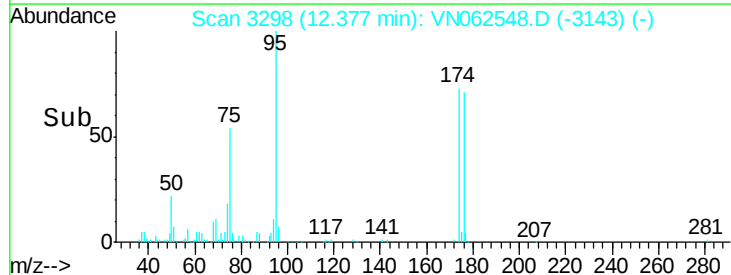
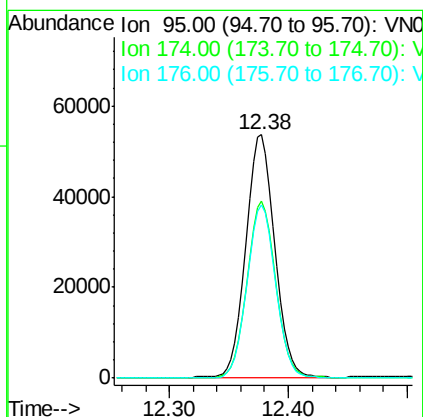
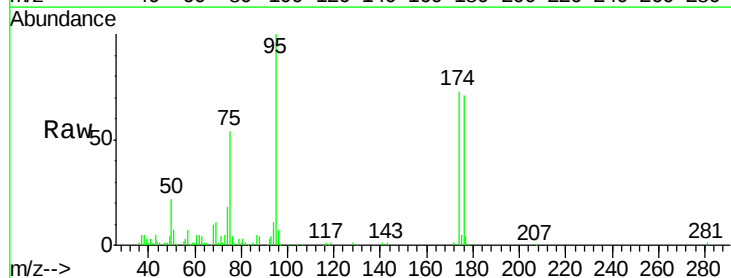
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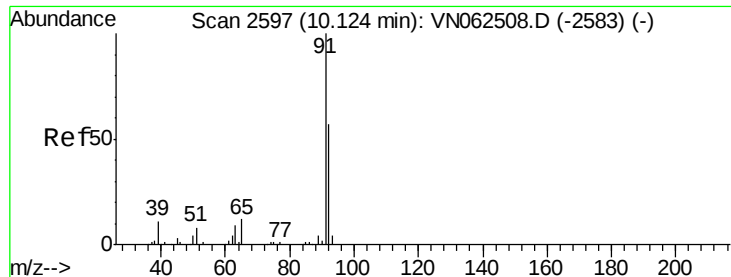
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.9	49.0	73.6
119	32.0	25.6	38.4



#60
4-Bromofluorobenzene
Concen: 28.229 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.4	57.5	86.3
176	70.0	56.3	84.5





#62

Toluene

Concen: 3.712 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

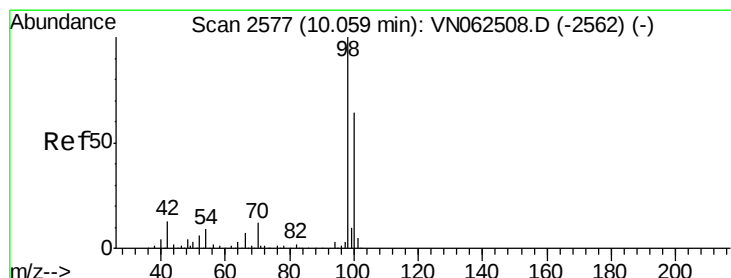
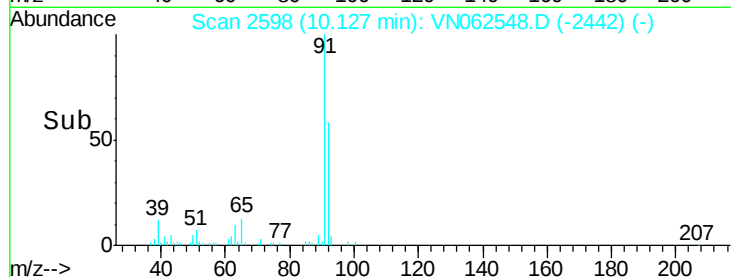
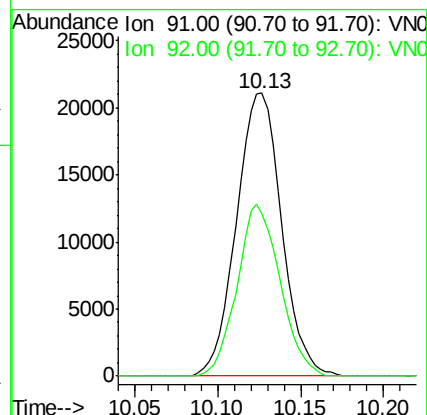
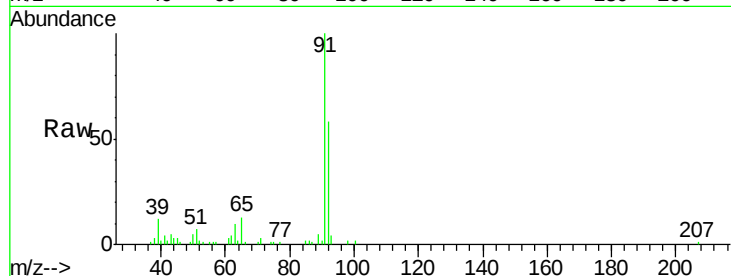
200715084-02-VOA

Tot Ion: 91 Resp: 39943

Ion Ratio Lower Upper

91 100

92 57.9 45.8 68.6



#63

Toluene-d8

Concen: 29.473 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062548.D

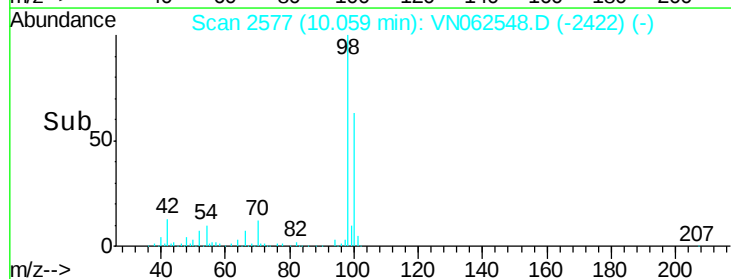
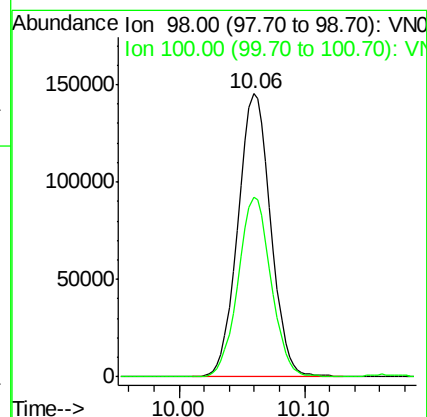
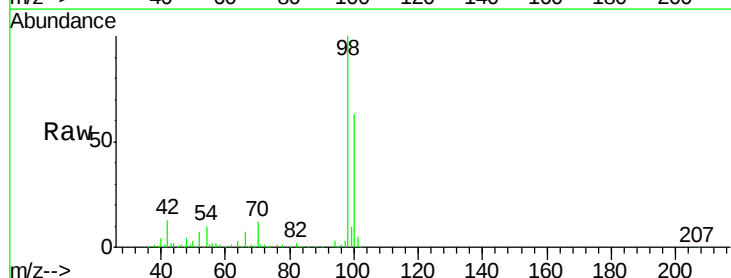
Acq: 16 Jul 2020 15:22

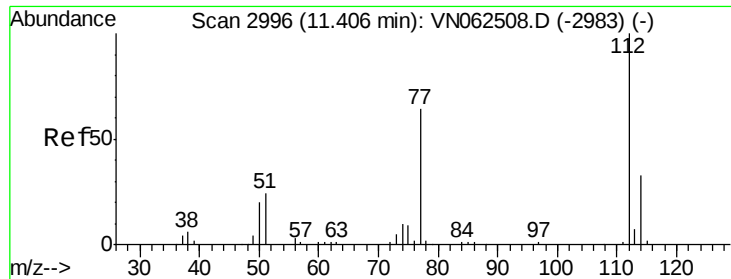
Tgt Ion: 98 Resp: 264126

Ion Ratio Lower Upper

98 100

100 64.0 50.4 75.6

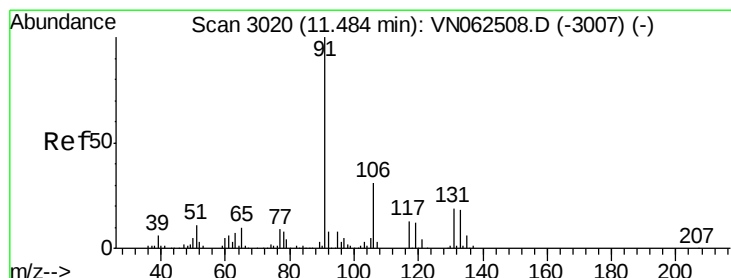
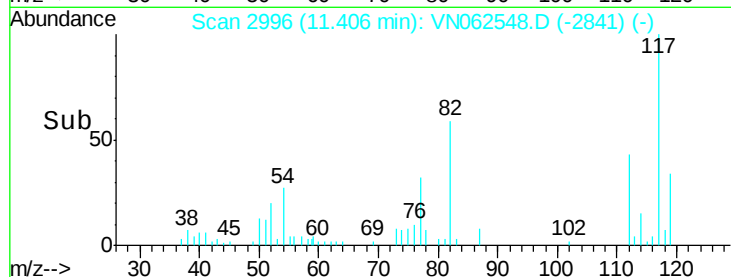
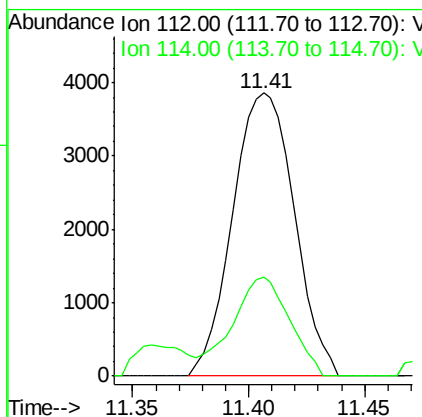
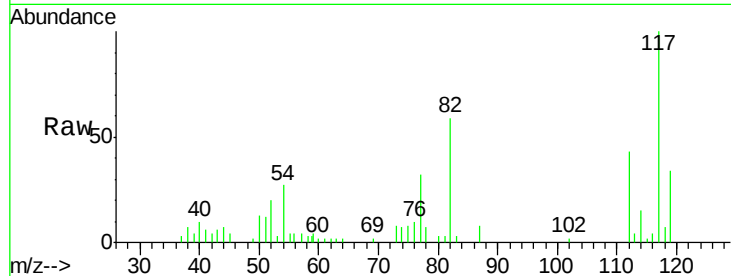




#64
Chlorobenzene
Concen: 1.129 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

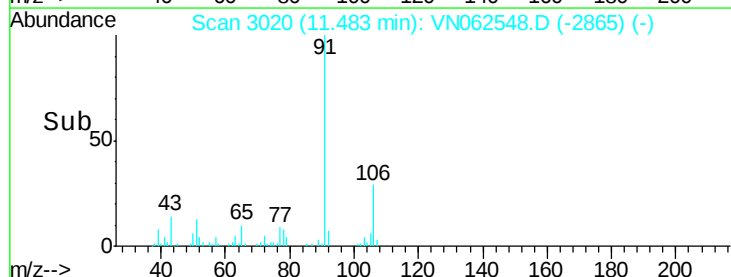
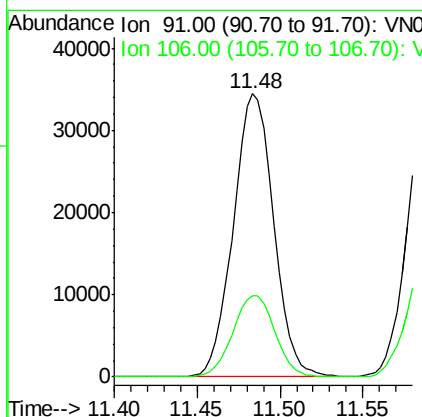
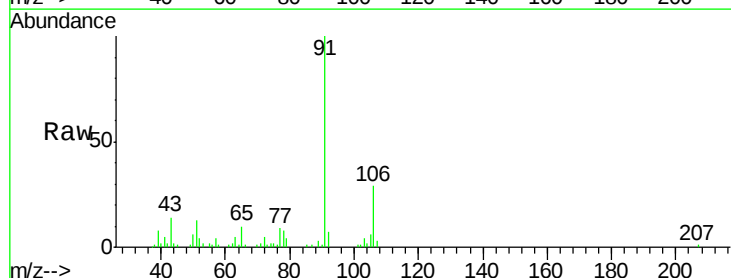
Instrument :
MSVOA_N
ClientSampleId :
200715084-02-VOA

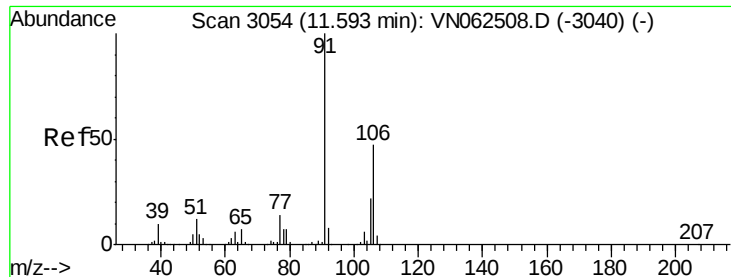
Tot Ion:112 Resp: 7140
Ion Ratio Lower Upper
112 100
114 35.2 26.0 39.0



#66
Ethyl Benzene
Concen: 4.904 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. -0.00 min
Lab File: VN062548.D
Acq: 16 Jul 2020 15:22

Tgt Ion: 91 Resp: 58425
Ion Ratio Lower Upper
91 100
106 28.6 24.6 36.8





#67

m/p-Xylenes

Concen: 7.738 ug/l

RT: 11.59 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

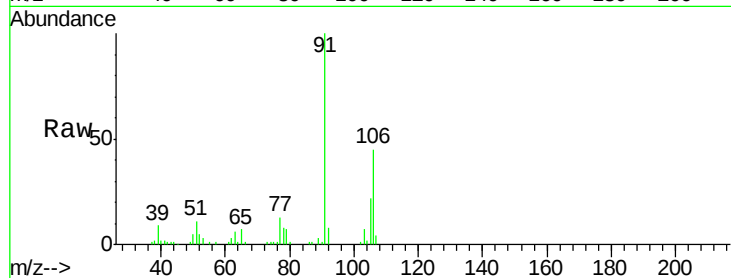
200715084-02-VOA

Tot Ion:106 Resp: 33462

Ion Ratio Lower Upper

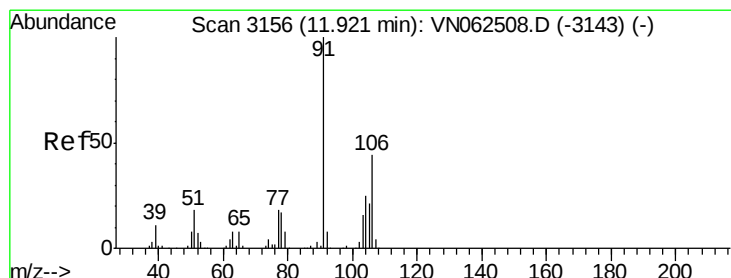
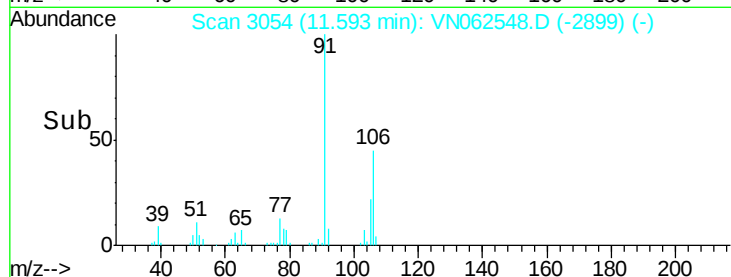
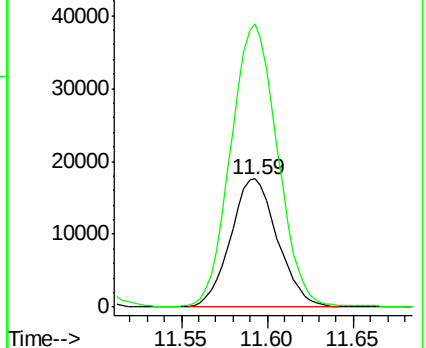
106 100

91 219.7 170.7 256.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 4.746 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VN062548.D

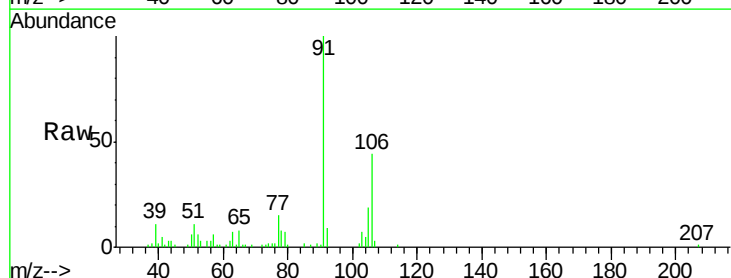
Acq: 16 Jul 2020 15:22

Tgt Ion:106 Resp: 19698

Ion Ratio Lower Upper

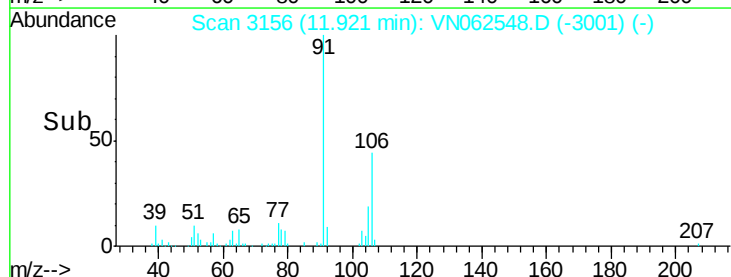
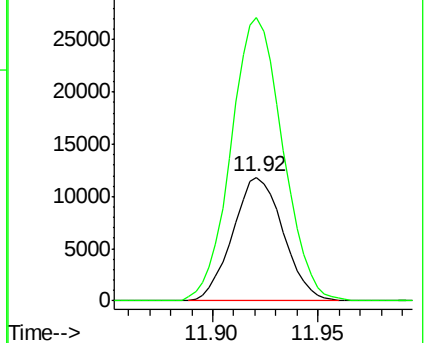
106 100

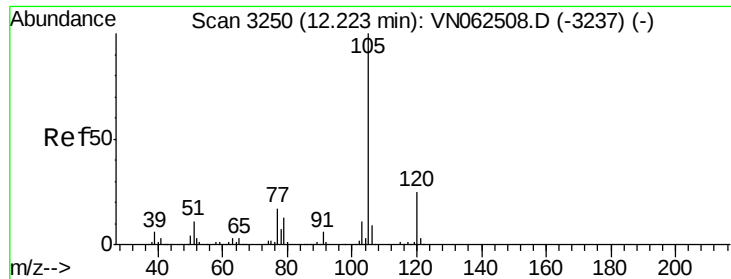
91 234.5 113.9 341.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#70

Isopropylbenzene

Concen: 0.575 ug/l

RT: 12.22 min Scan# 3250

Delta R.T. -0.00 min

Lab File: VN062548.D

Acq: 16 Jul 2020 15:22

Instrument :

MSVOA_N

ClientSampleId :

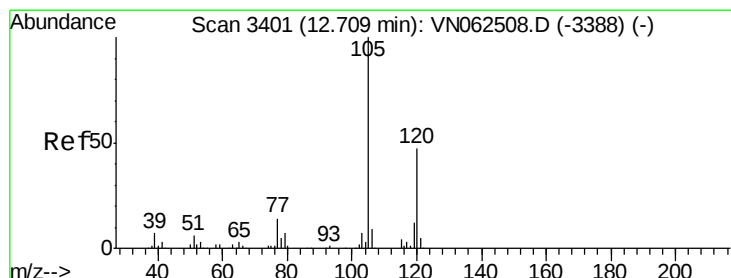
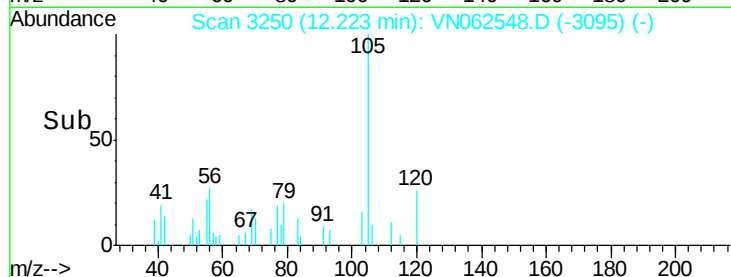
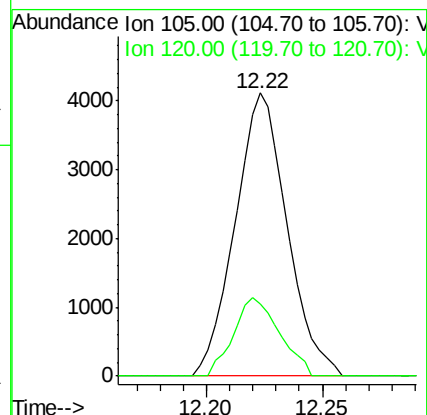
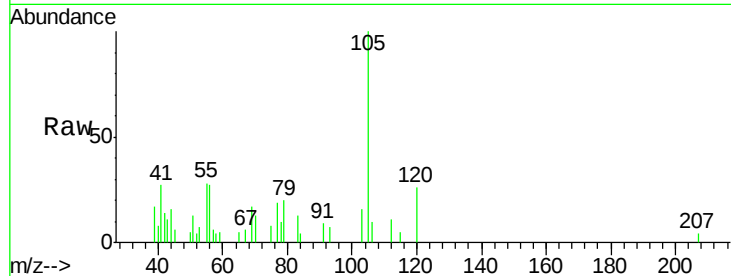
200715084-02-VOA

Tot Ion:105 Resp: 6401

Ion Ratio Lower Upper

105 100

120 24.4 17.6 32.8



#76

1,3,5-Trimethylbenzene

Concen: 0.619 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN062548.D

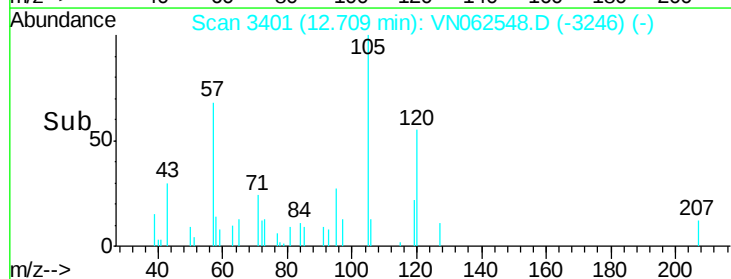
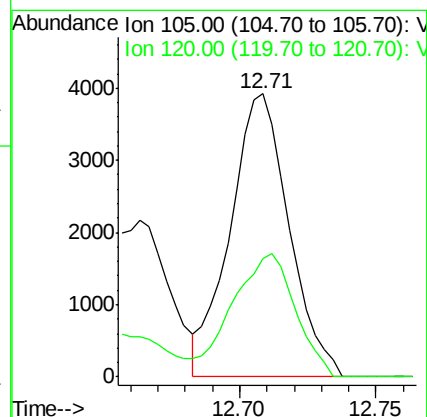
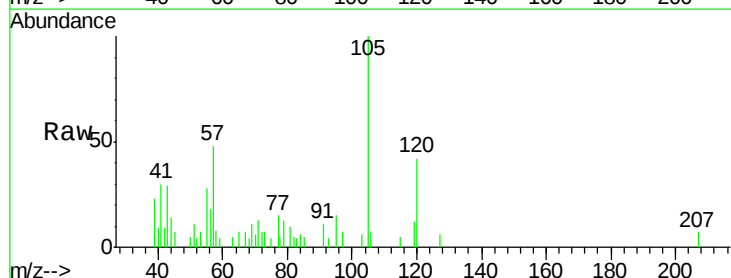
Acq: 16 Jul 2020 15:22

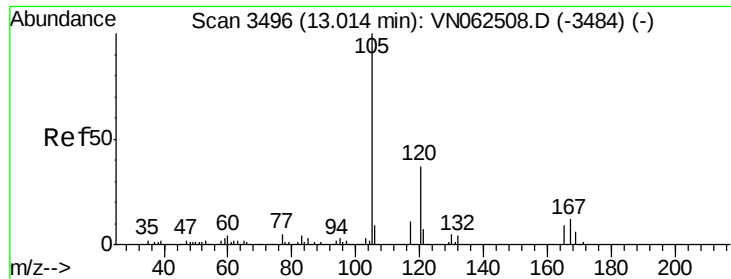
Tgt Ion:105 Resp: 5875

Ion Ratio Lower Upper

105 100

120 46.2 0.0 95.0

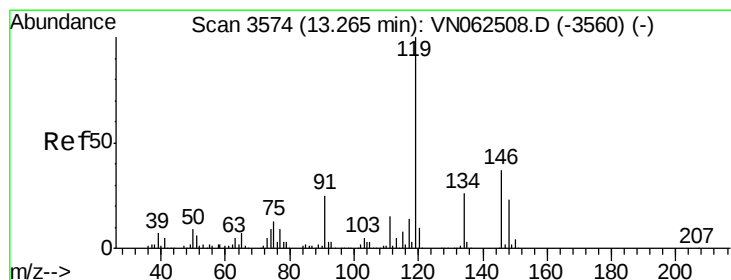
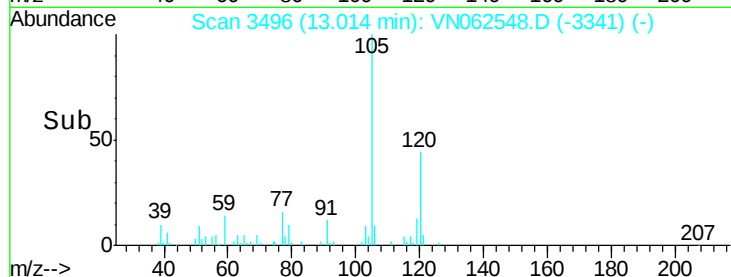
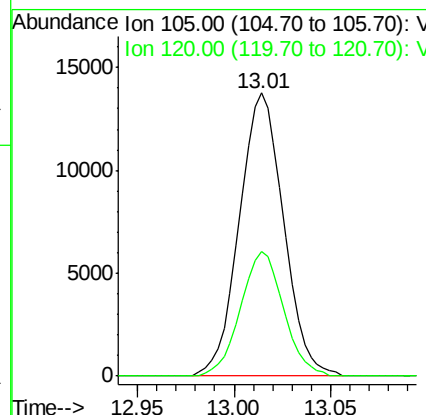
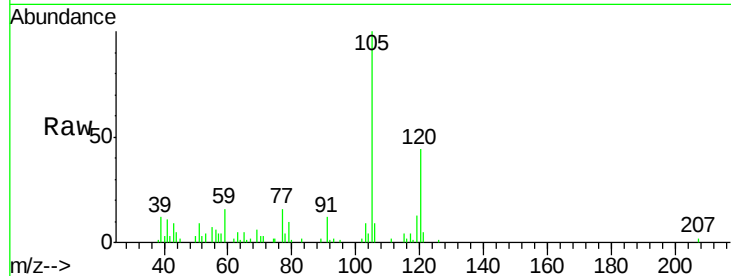




#80
 1,2,4-Trimethylbenzene
 Concen: 2.348 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. -0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

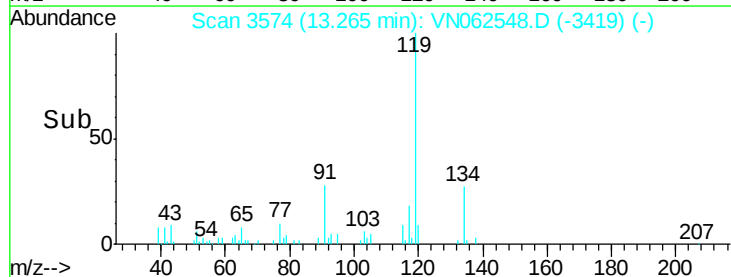
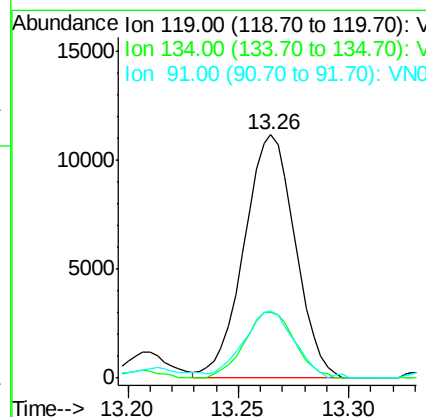
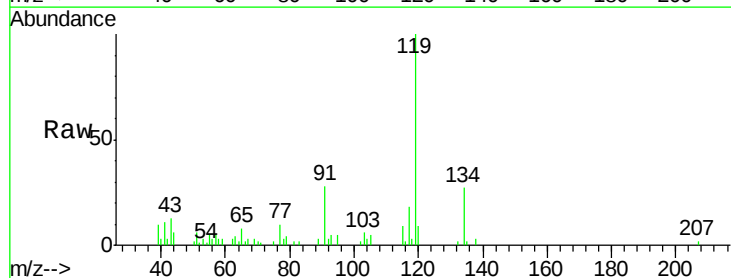
Instrument :
 MSVOA_N
 ClientSampleId :
 200715084-02-VOA

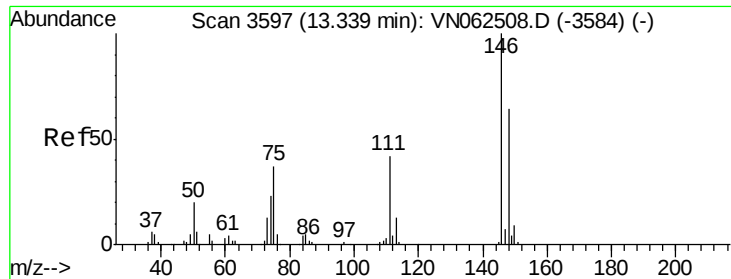
Tot Ion:105 Resp: 21919
 Ion Ratio Lower Upper
 105 100
 120 42.8 0.0 86.6



#82
 p-Isopropyltoluene
 Concen: 1.927 ug/l
 RT: 13.26 min Scan# 3574
 Delta R.T. -0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

Tgt Ion:119 Resp: 17951
 Ion Ratio Lower Upper
 119 100
 134 26.6 0.0 50.8
 91 27.2 0.0 51.2

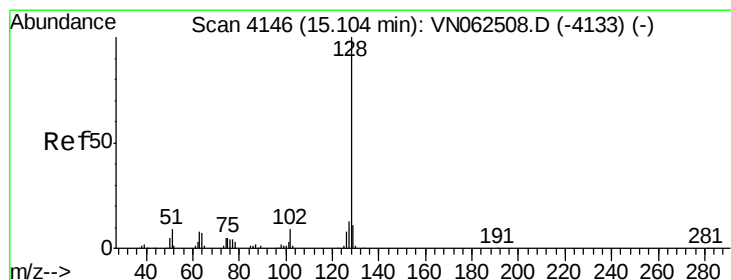
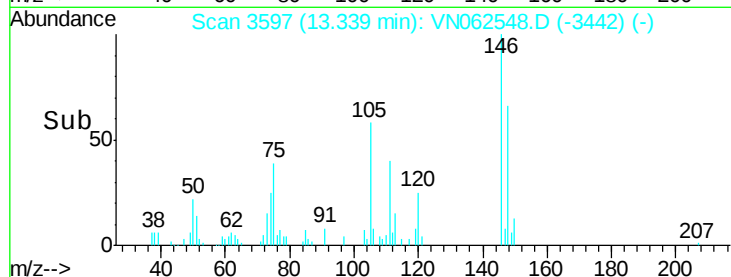
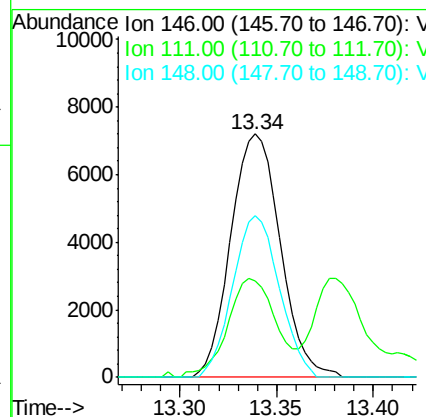
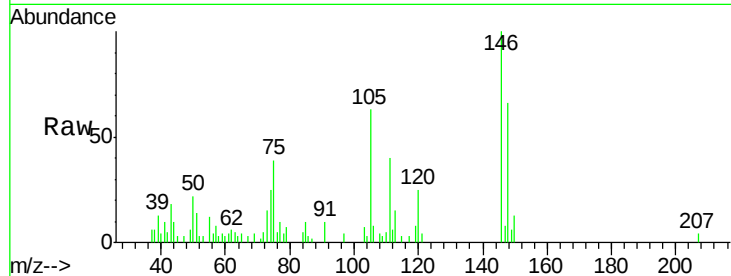




#84
 1,4-Dichlorobenzene
 Concen: 2.903 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

Instrument :
 MSVOA_N
 ClientSampleId :
 200715084-02-VOA

Tot Ion:146 Resp: 12834
 Ion Ratio Lower Upper
 146 100
 111 35.7 21.4 64.2
 148 62.4 32.4 97.2



#91
 Naphthalene
 Concen: 20.261 ug/l
 RT: 15.10 min Scan# 4146
 Delta R.T. -0.00 min
 Lab File: VN062548.D
 Acq: 16 Jul 2020 15:22

Tgt Ion:128 Resp: 117833
 Ion Ratio Lower Upper
 128 100
 127 12.7 10.0 15.0
 129 10.7 8.8 13.2

