

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061020\
 Data File : VN061739.D
 Acq On : 10 Jun 2020 16:05
 Operator : JC/MD
 Sample : L2955-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Jun 11 02:46:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N061020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 10 12:28:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	57491	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	297579	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	270546	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	108033	30.13	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.43%
60) 4-Bromofluorobenzene	12.38	95	105377	26.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.10%
63) Toluene-d8	10.06	98	344905	30.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.03%

Target Compounds

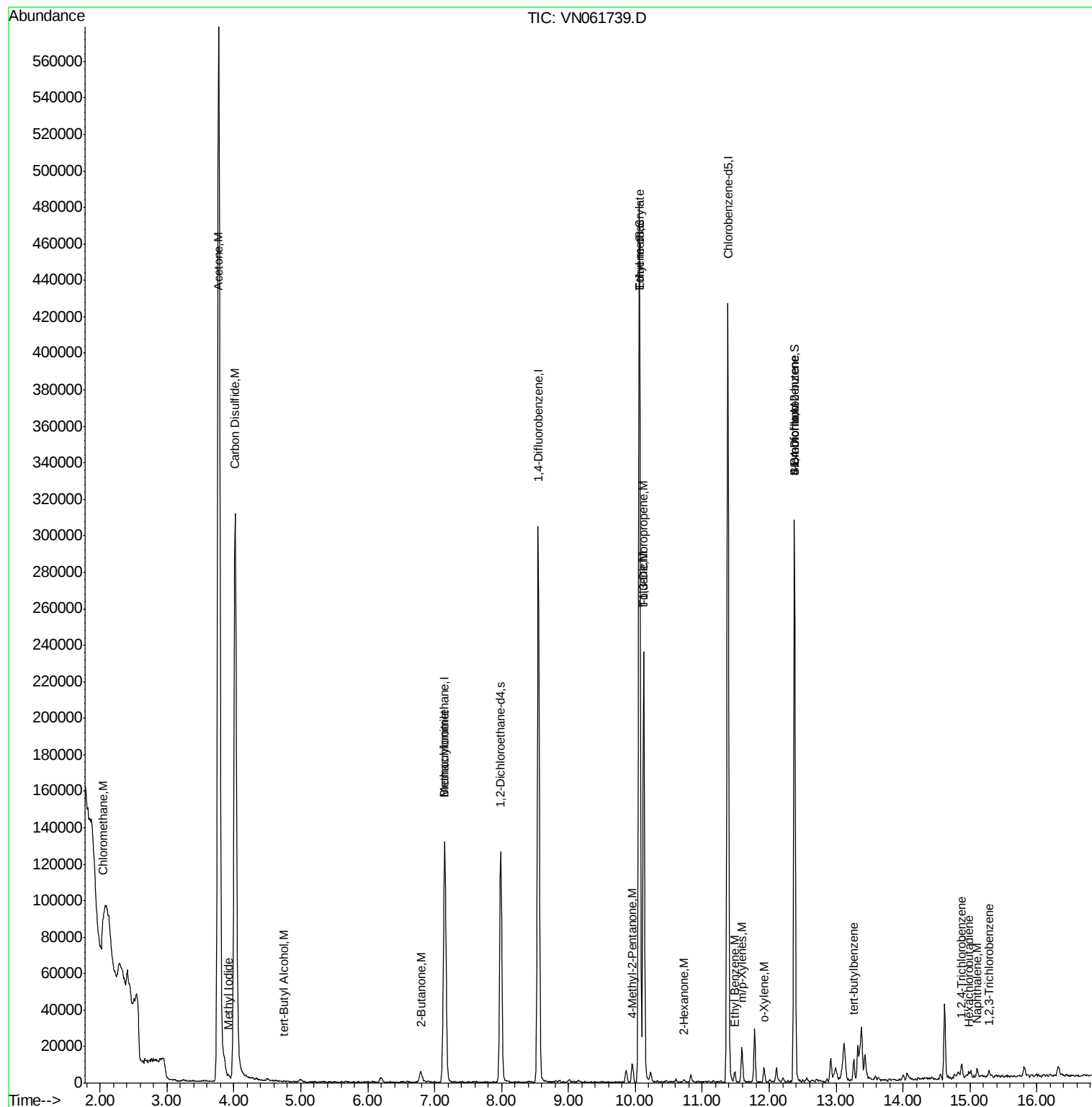
					Ovalue
3) Chloromethane	2.03	50	1043	0.367	ug/l 90
11) Methyl Iodide	3.92	142	957	0.243	ug/l # 57
15) Acetone	3.77	58	339675	956.699	ug/l 92
16) Carbon Disulfide	4.01	76	2277	0.380	ug/l # 74
23) tert-Butyl Alcohol	4.74	59	99	0.216	ug/l # 100
30) 2-Butanone	6.79	43	10396	7.505	ug/l # 90
35) Methacrylonitrile	7.15	41	264	0.205	ug/l # 31
48) t-1,3-Dichloropropene	10.13	75	1002	0.212	ug/l # 1
51) Ethyl methacrylate	10.07	69	1116	0.264	ug/l 89
56) Bromoform	12.38	173	897	0.335	ug/l # 1
58) 4-Methyl-2-Pentanone	9.95	43	7330	2.620	ug/l # 96
59) 2-Hexanone	10.72	43	459	0.226	ug/l # 28
62) Toluene	10.12	91	187684	13.817	ug/l 99
66) Ethyl Benzene	11.49	91	4198	0.282	ug/l 100
67) m/p-Xylenes	11.59	106	6340	1.072	ug/l 95
68) o-Xylene	11.92	106	2365	0.423	ug/l 83
77) t-1,4-Dichloro-2-butene	12.38	75	52923	39.703	ug/l # 14
79) tert-butylbenzene	13.27	119	2370	0.223	ug/l 68
89) 1,2,4-Trichlorobenzene	14.88	180	1082	0.273	ug/l # 84
90) Hexachlorobutadiene	14.98	225	418	0.243	ug/l 56
91) Naphthalene	15.10	128	4479	0.407	ug/l 98
92) 1,2,3-Trichlorobenzene	15.29	180	1188	0.306	ug/l 71

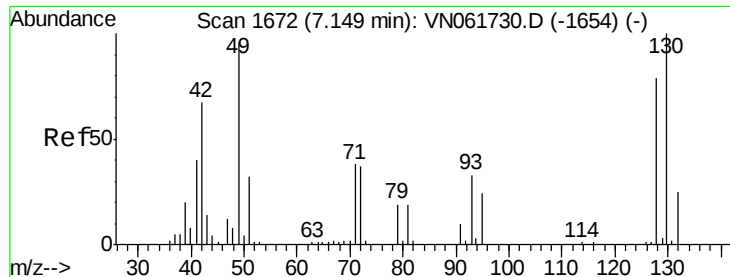
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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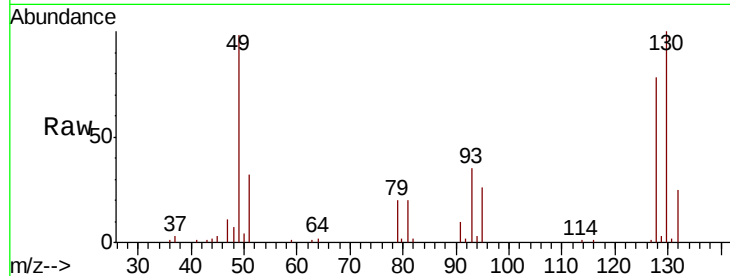




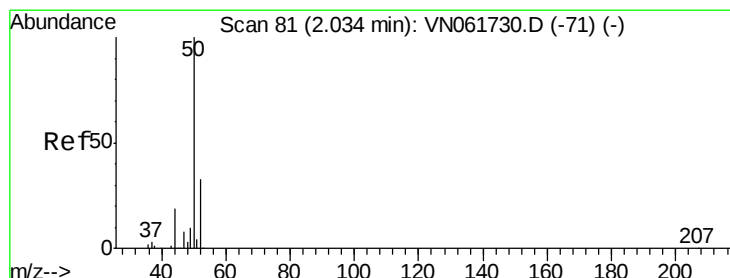
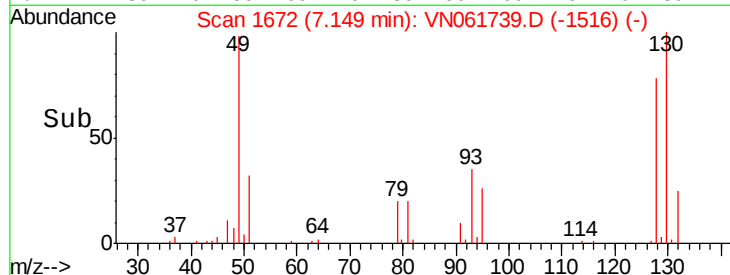
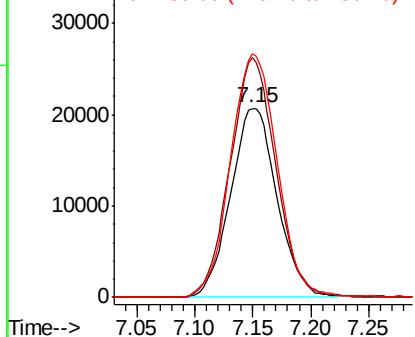
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.15 min Scan# 1672
Delta R.T. 0.00 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

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

Tot Ion:128 Resp: 57491
Ion Ratio Lower Upper
128 100
49 125.3 0.0 312.3
130 129.3 0.0 328.7

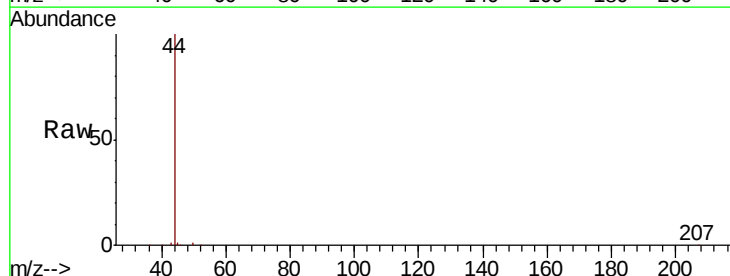


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

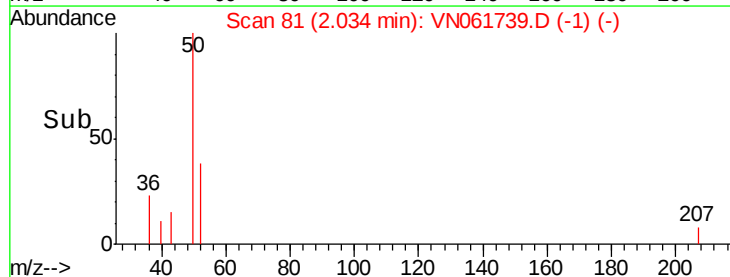
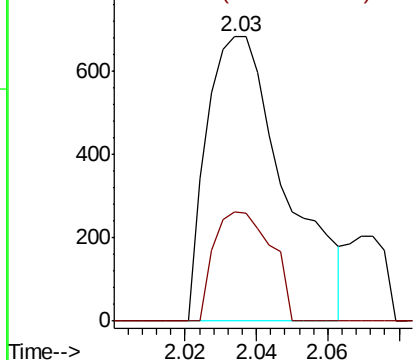


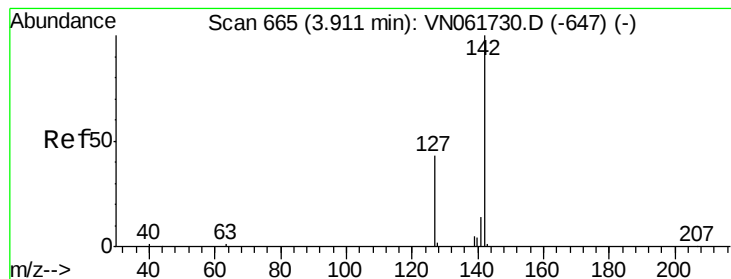
#3
Chloromethane
Concen: 0.367 ug/l
RT: 2.03 min Scan# 81
Delta R.T. 0.00 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

Tgt Ion: 50 Resp: 1043
Ion Ratio Lower Upper
50 100
52 38.2 26.2 39.2



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#11

Methvl Iodide

Concen: 0.243 ug/l

RT: 3.92 min Scan# 667

Delta R.T. 0.01 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

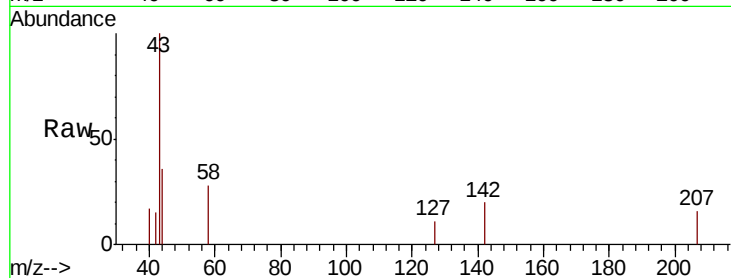
Tot Ion:142 Resp: 957

Ion Ratio Lower Upper

142 100

127 72.7 21.6 64.6#

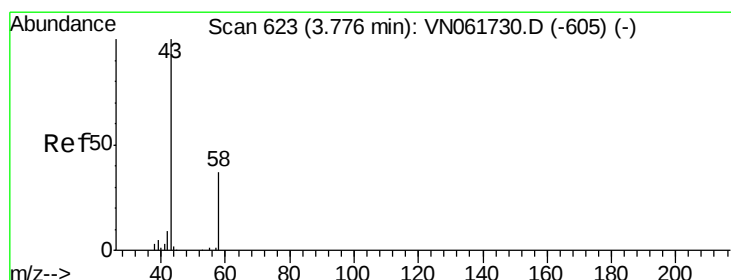
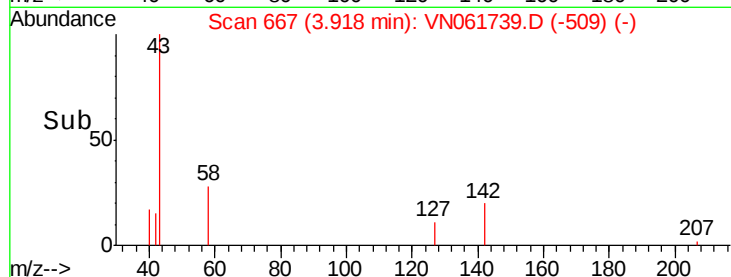
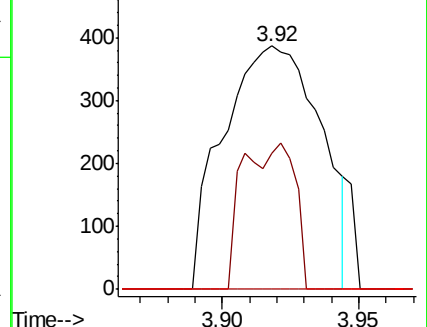
141 0.0 7.2 21.6#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



#15

Acetone

Concen: 956.699 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061739.D

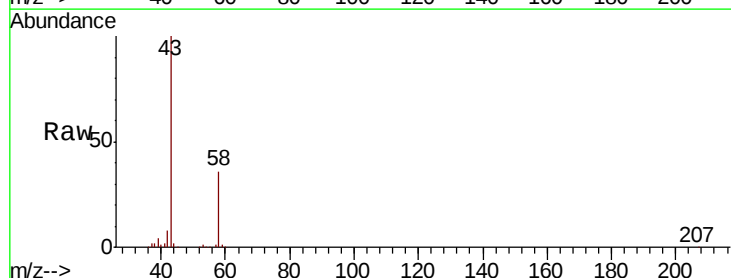
Acq: 10 Jun 2020 16:05

Tgt Ion: 58 Resp: 339675

Ion Ratio Lower Upper

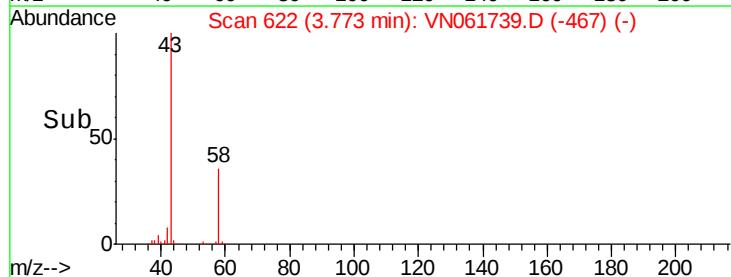
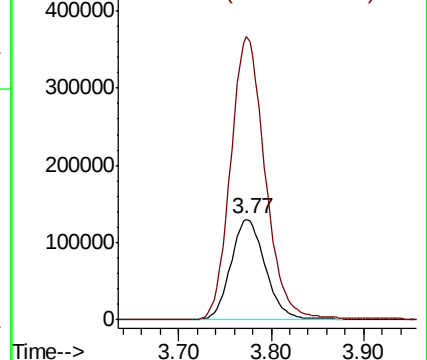
58 100

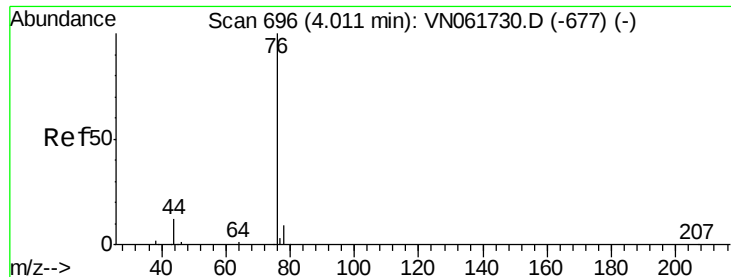
43 281.2 213.7 320.5



Abundance Ion 58.00 (57.70 to 58.70): V

Ion 43.00 (42.70 to 43.70): V

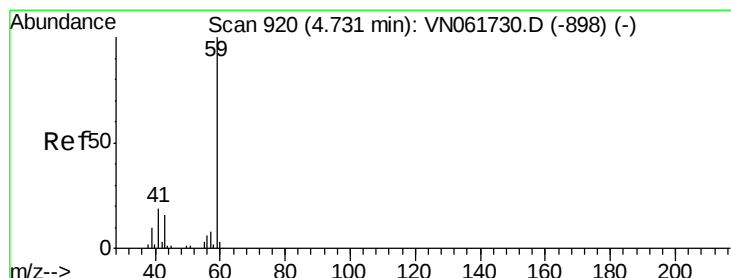
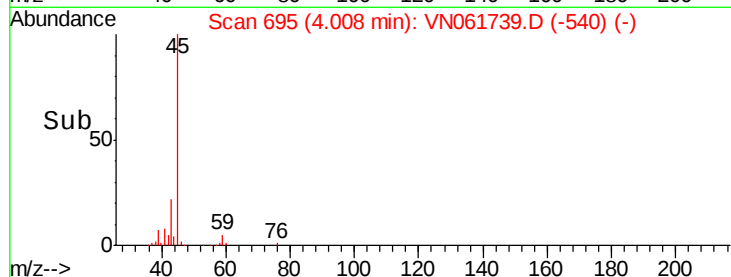
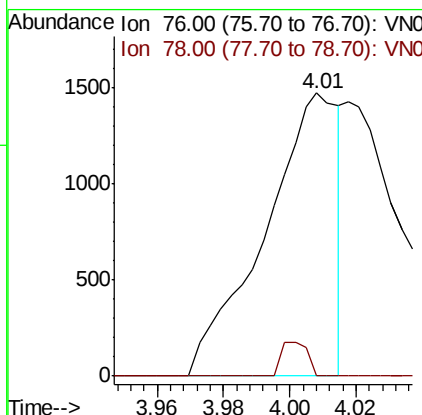
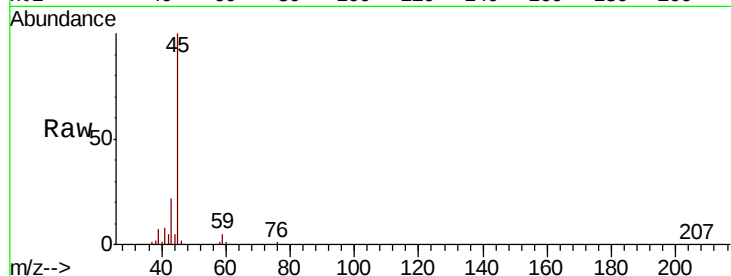




#16
Carbon Disulfide
Concen: 0.380 ug/l
RT: 4.01 min Scan# 695
Delta R.T. -0.00 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

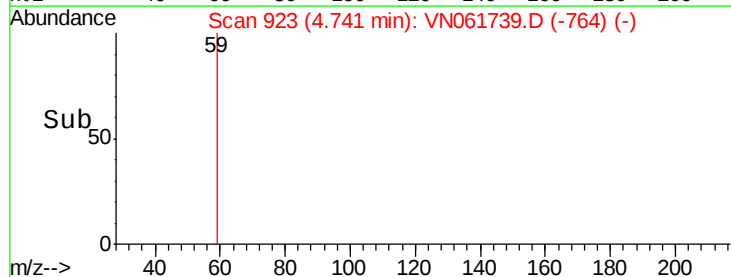
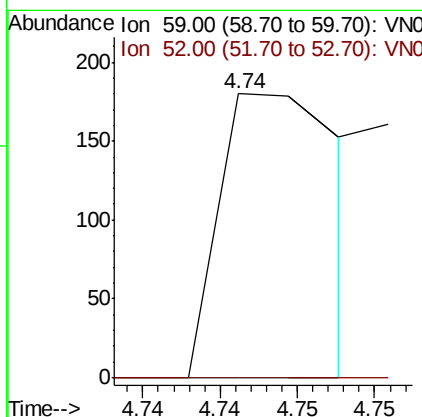
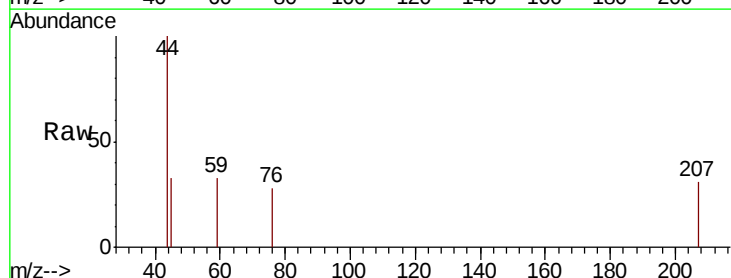
Instrument :
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002-35TH-AVE(JUNE)

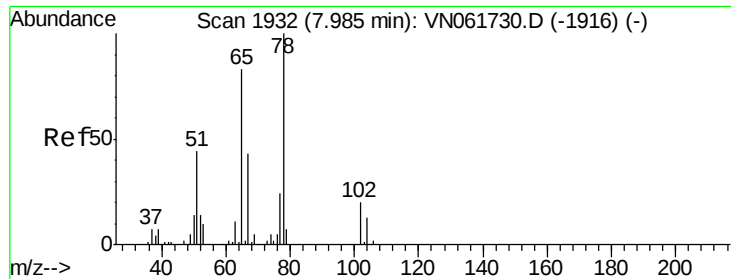
Tot Ion: 76 Resp: 2277
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#23
tert-Butyl Alcohol
Concen: 0.216 ug/l
RT: 4.74 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

Tgt Ion: 59 Resp: 99
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 30.127 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

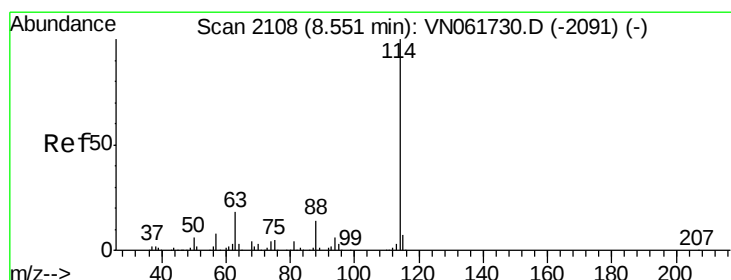
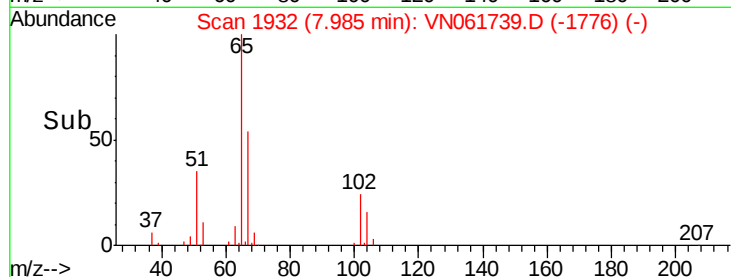
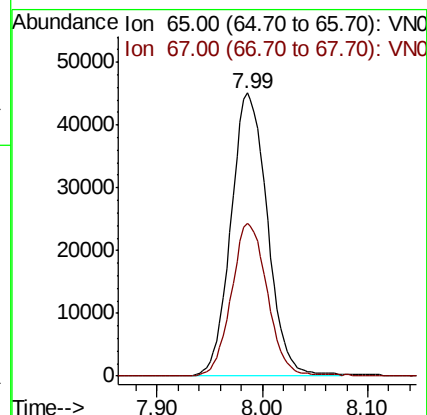
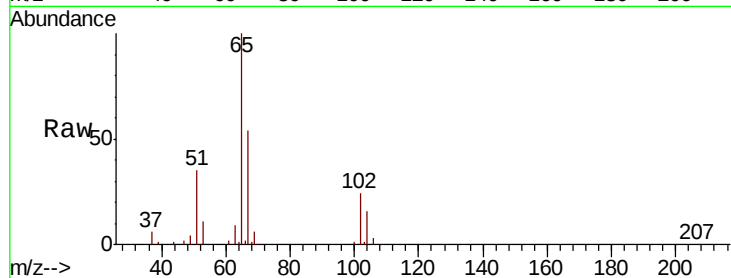
002-35TH-AVE(JUNE)

Tot Ion: 65 Resp: 108033

Ion Ratio Lower Upper

65 100

67 52.9 42.2 63.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2107

Delta R.T. -0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

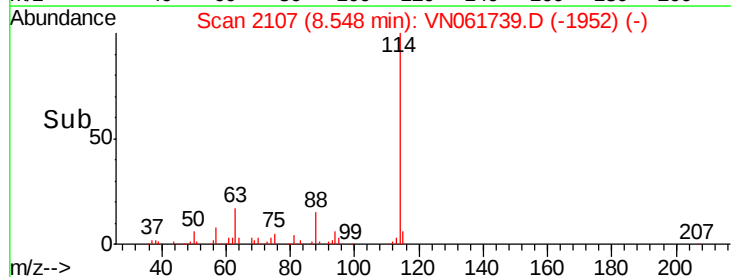
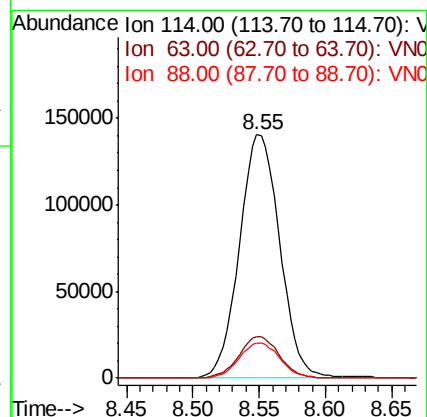
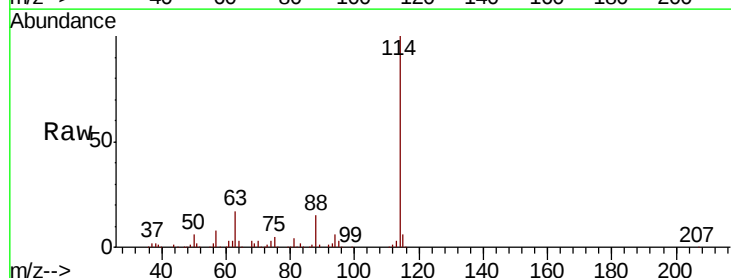
Tgt Ion: 114 Resp: 297579

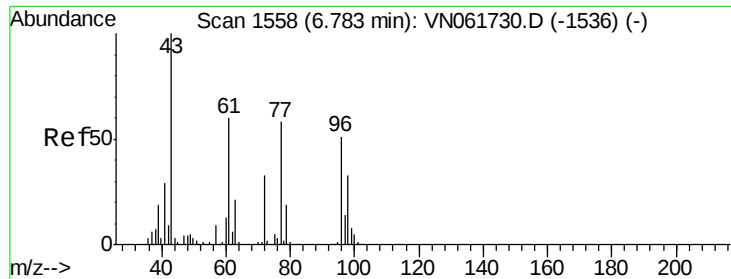
Ion Ratio Lower Upper

114 100

63 17.1 14.2 21.2

88 14.7 11.4 17.2

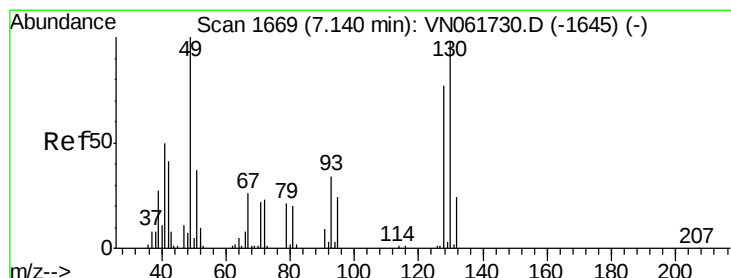
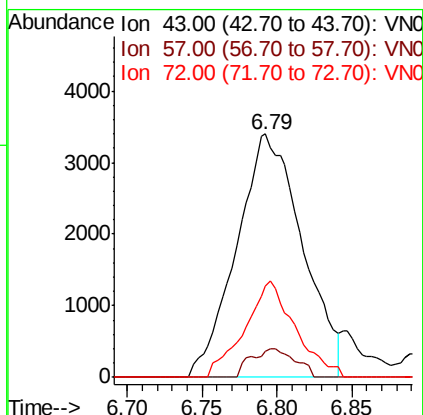
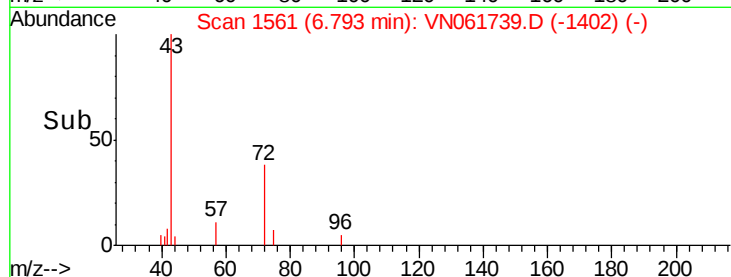
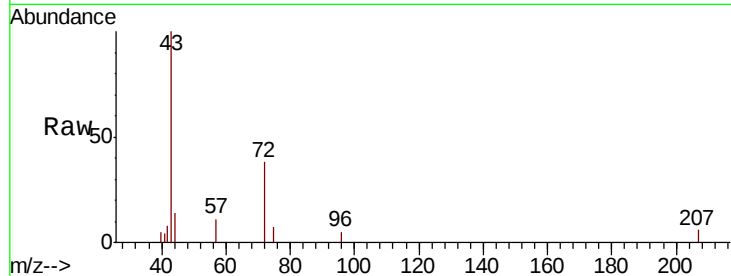




#30
2-Butanone
Concen: 7.505 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

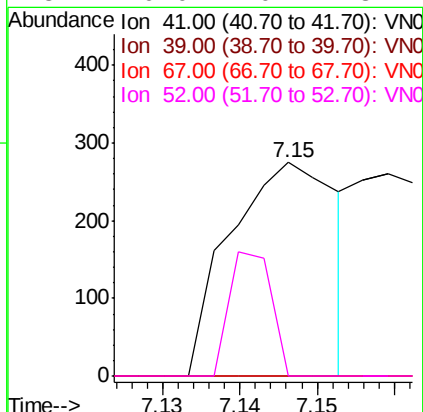
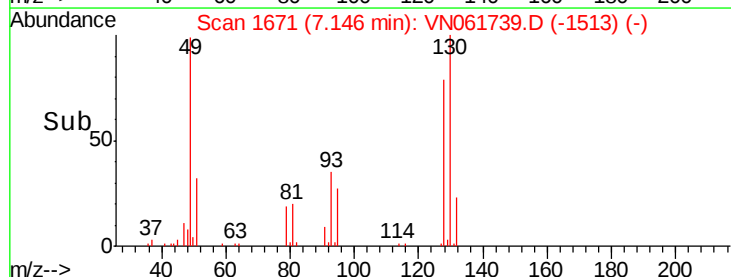
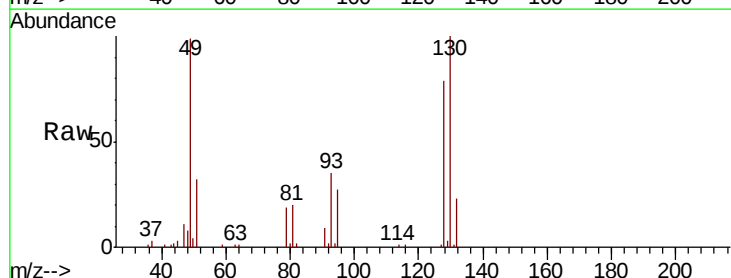
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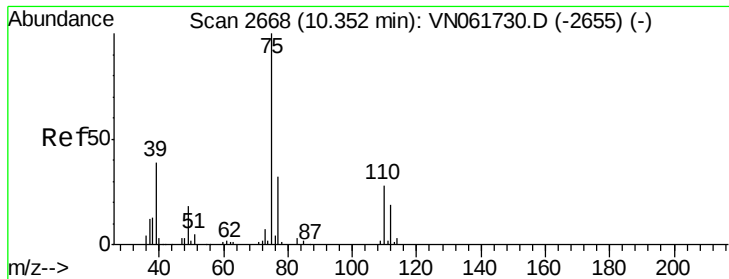
Tot Ion: 43 Resp: 10396
Ion Ratio Lower Upper
43 100
57 3.3 7.6 11.4#
72 30.0 27.8 41.6



#35
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. 0.01 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

Tgt Ion: 41 Resp: 264
Ion Ratio Lower Upper
41 100
39 0.0 26.5 79.5#
67 0.0 25.4 76.2#
52 0.0 10.4 31.2#





#48

t-1,3-Dichloropropene

Concen: 0.212 ug/l

RT: 10.13 min Scan# 2599

Delta R.T. -0.22 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

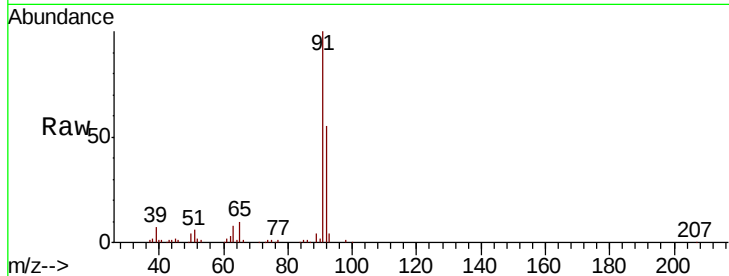
002-35TH-AVE(JUNE)

Tot Ion: 75 Resp: 1002

Ion Ratio Lower Upper

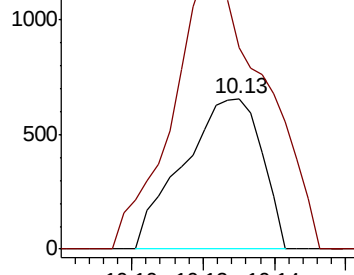
75 100

77 100.9 25.4 38.2#

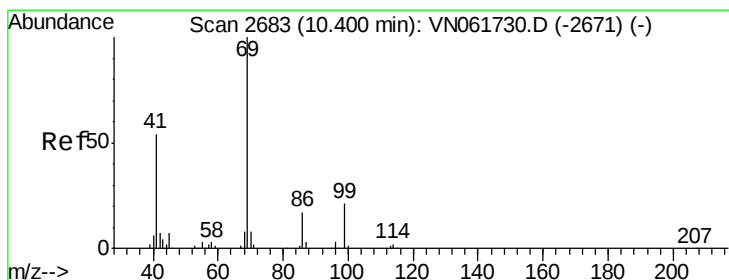
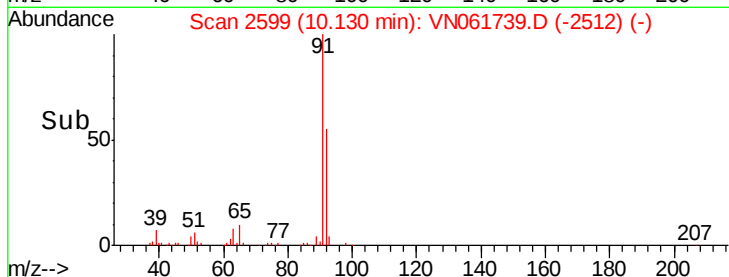


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#51

Ethyl methacrylate

Concen: 0.264 ug/l

RT: 10.07 min Scan# 2579

Delta R.T. -0.33 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

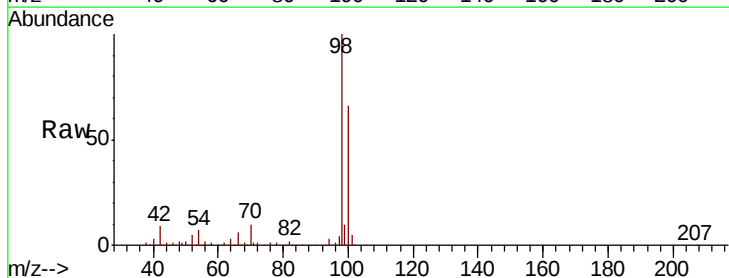
Tgt Ion: 69 Resp: 1116

Ion Ratio Lower Upper

69 100

41 65.6 26.9 80.7

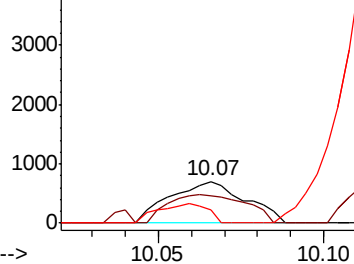
39 31.7 16.7 50.1



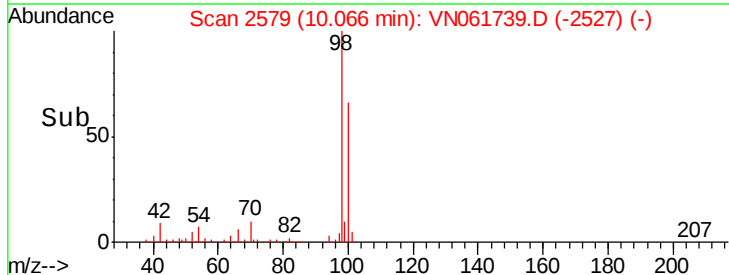
Abundance Ion 69.00 (68.70 to 69.70): VN0

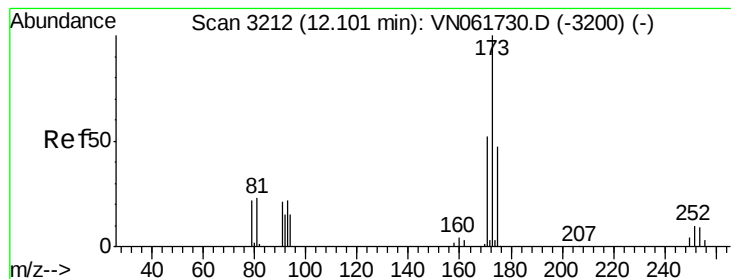
Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->





#56

Bromoform

Concen: 0.335 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

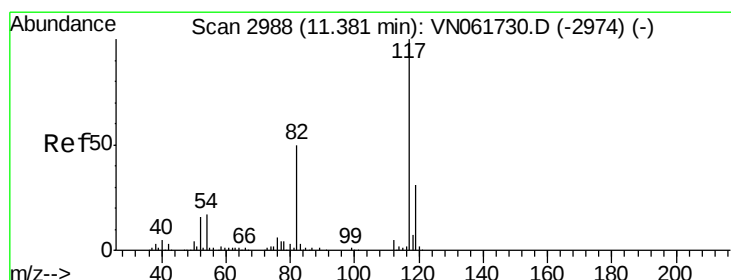
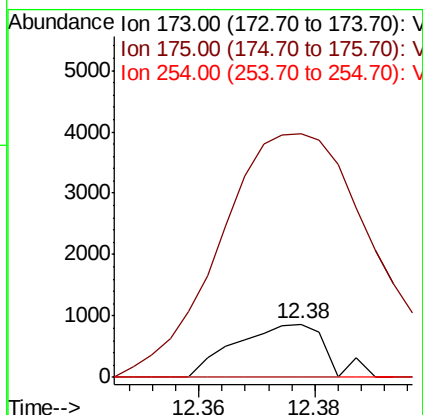
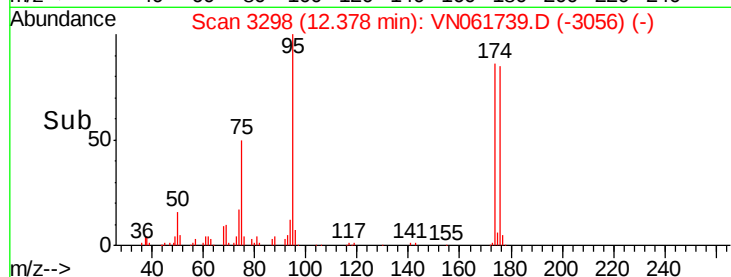
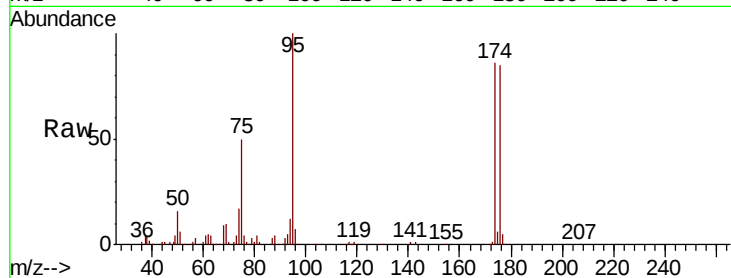
Tot Ion:173 Resp: 897

Ion Ratio Lower Upper

173 100

175 805.5 37.5 56.3#

254 0.0 6.9 10.3#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

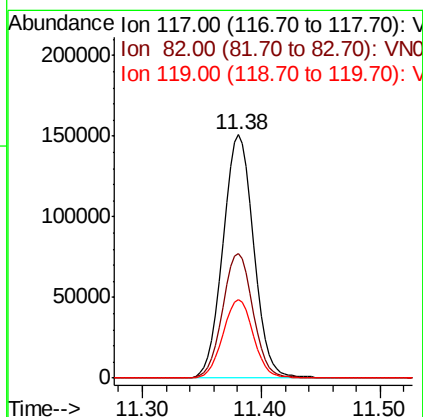
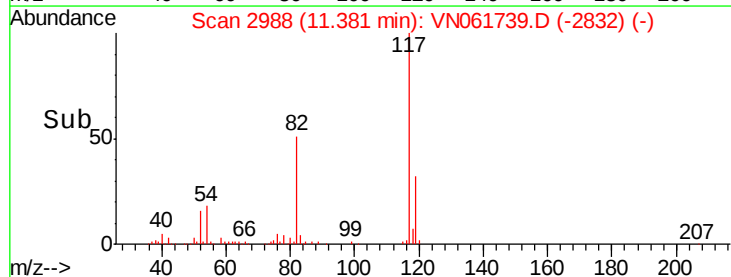
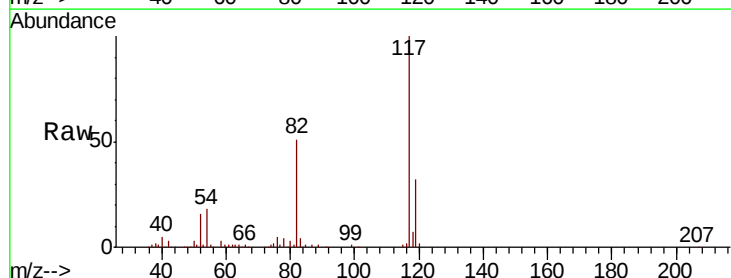
Tgt Ion:117 Resp: 270546

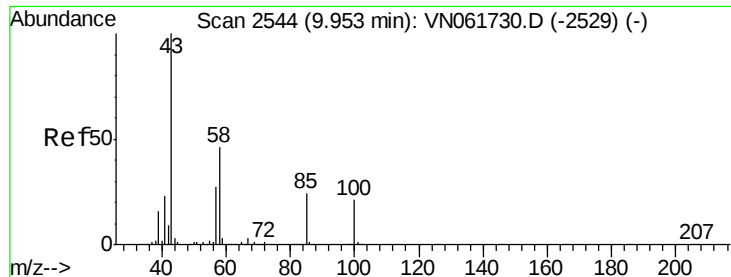
Ion Ratio Lower Upper

117 100

82 50.8 40.6 60.8

119 32.0 25.4 38.2

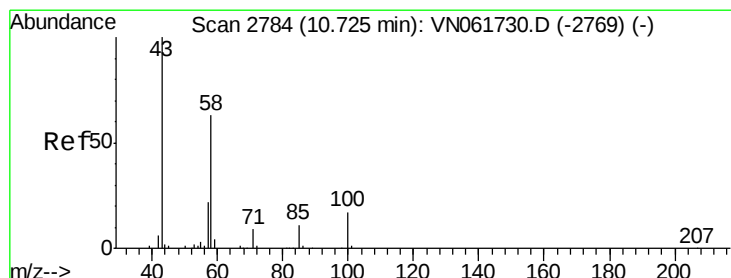
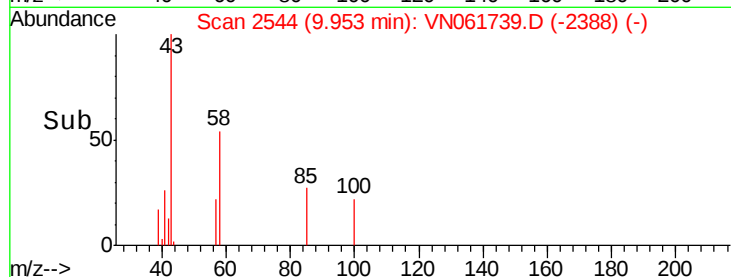
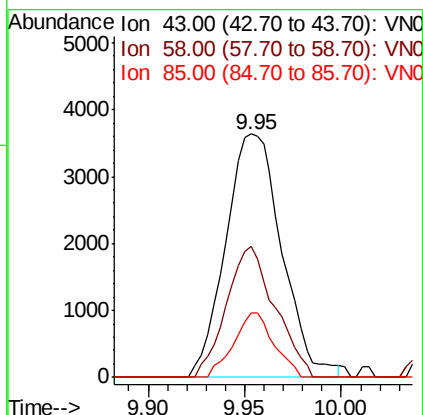
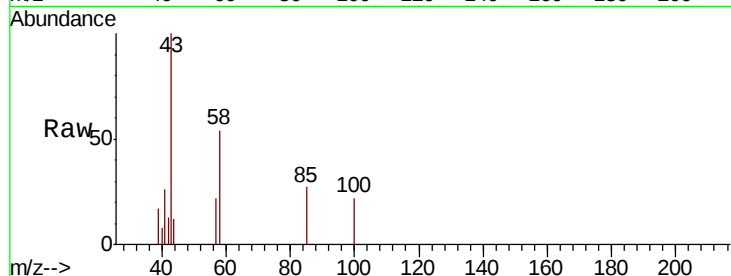




#58
4-Methyl-2-Pentanone
Concen: 2.620 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. 0.00 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

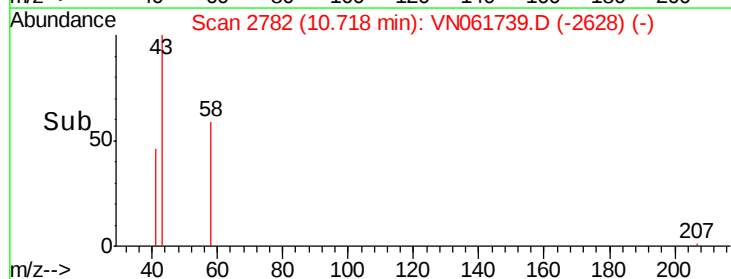
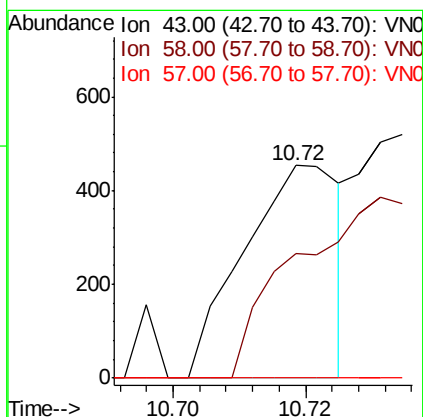
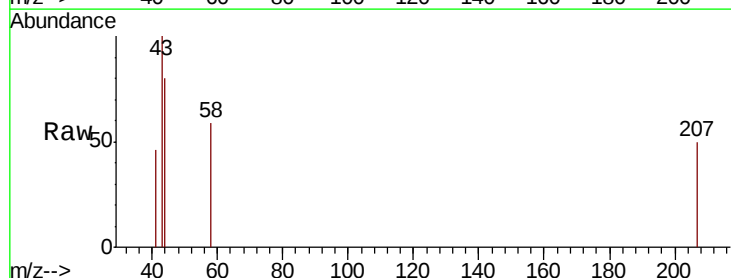
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(JUNE)

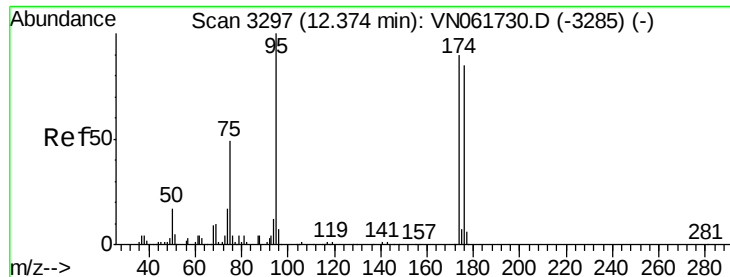
Tot Ion: 43 Resp: 7330
Ion Ratio Lower Upper
43 100
58 46.4 36.6 54.8
85 19.0 19.0 28.6#



#59
2-Hexanone
Concen: 0.226 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.01 min
Lab File: VN061739.D
Acq: 10 Jun 2020 16:05

Tgt Ion: 43 Resp: 459
Ion Ratio Lower Upper
43 100
58 0.0 50.4 75.6#
57 0.0 17.2 25.8#





#60

4-Bromofluorobenzene

Concen: 26.432 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

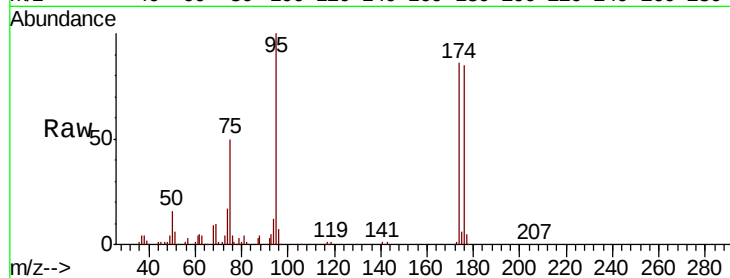
Tot Ion: 95 Resp: 105377

Ion Ratio Lower Upper

95 100

174 87.4 72.8 109.2

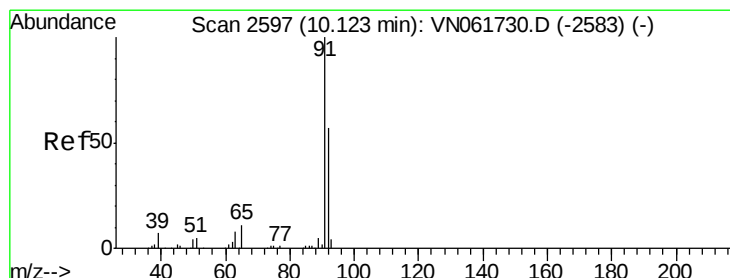
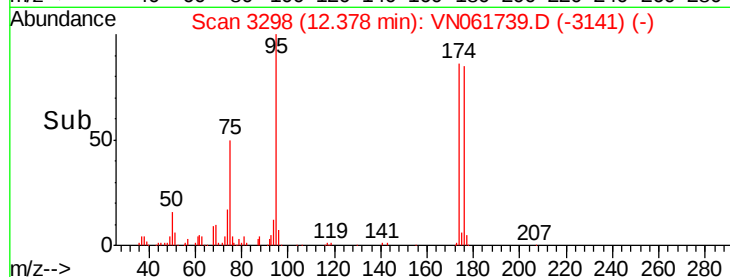
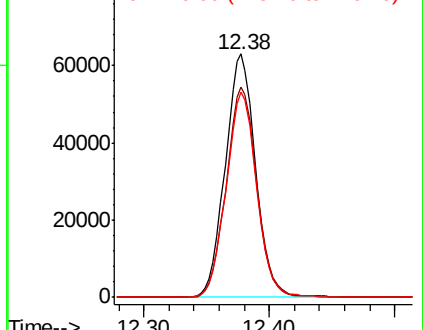
176 84.8 69.2 103.8



Abundance Ion 95.00 (94.70 to 95.70): VN061739.D (-3285) (-)

Ion 174.00 (173.70 to 174.70): VN061739.D (-3285) (-)

Ion 176.00 (175.70 to 176.70): VN061739.D (-3285) (-)



#62

Toluene

Concen: 13.817 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. 0.00 min

Lab File: VN061739.D

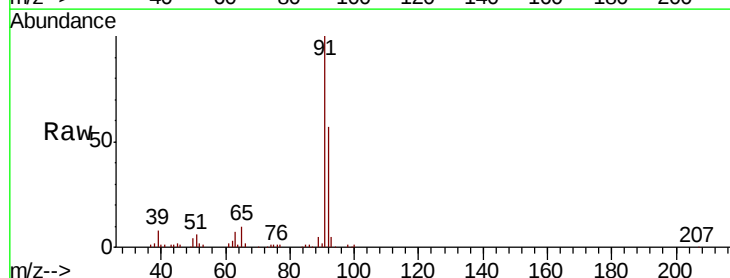
Acq: 10 Jun 2020 16:05

Tgt Ion: 91 Resp: 187684

Ion Ratio Lower Upper

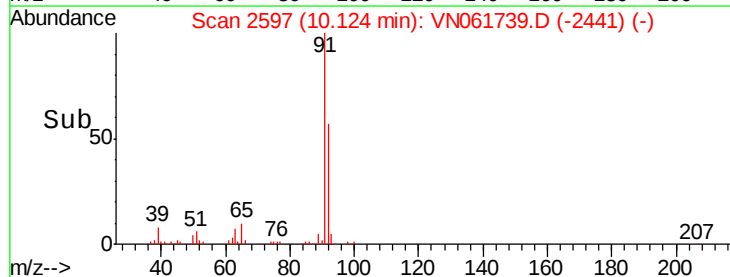
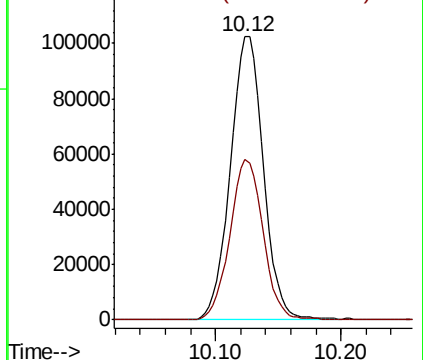
91 100

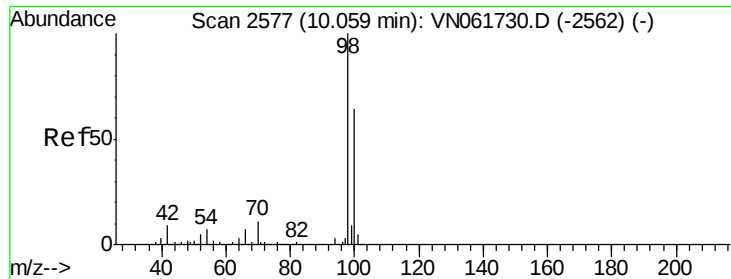
92 56.9 45.8 68.8



Abundance Ion 91.00 (90.70 to 91.70): VN061739.D (-2583) (-)

Ion 92.00 (91.70 to 92.70): VN061739.D (-2583) (-)





#63

Toluene-d8

Concen: 30.012 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

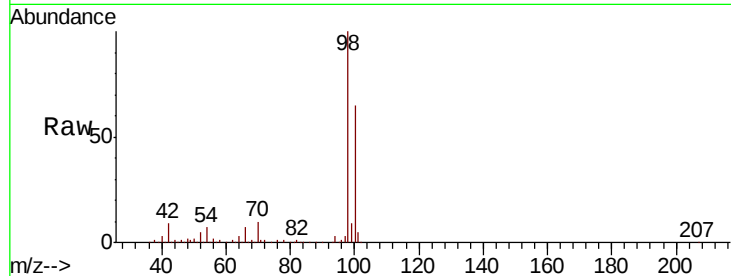
002-35TH-AVE(JUNE)

Tot Ion: 98 Resp: 344905

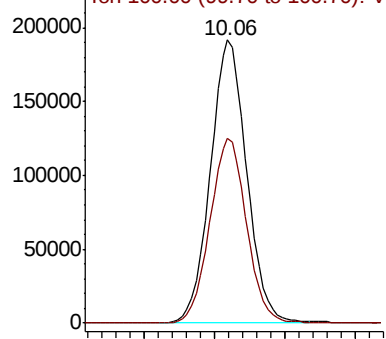
Ion Ratio Lower Upper

98 100

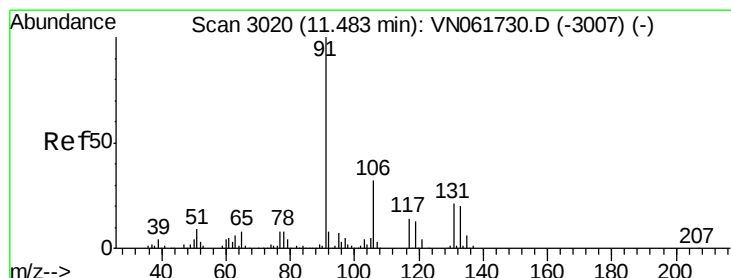
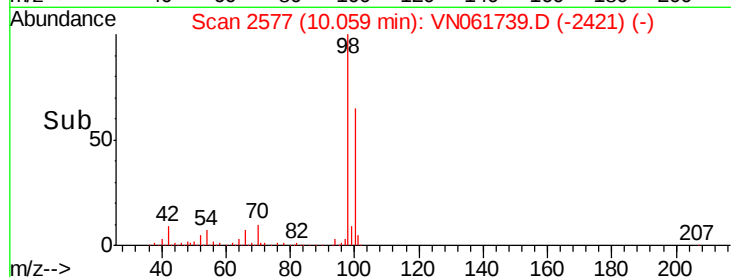
100 65.7 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VN061739.D (-2562) (-)



Time-->



#66

Ethyl Benzene

Concen: 0.282 ug/l

RT: 11.49 min Scan# 3021

Delta R.T. 0.00 min

Lab File: VN061739.D

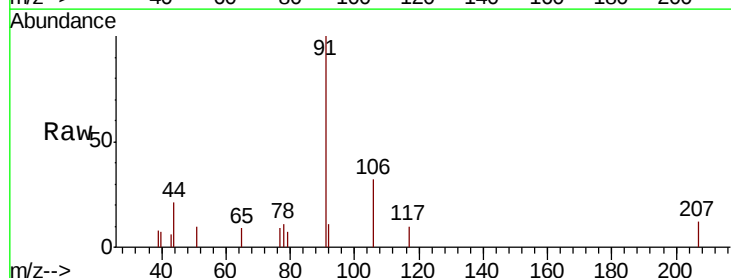
Acq: 10 Jun 2020 16:05

Tgt Ion: 91 Resp: 4198

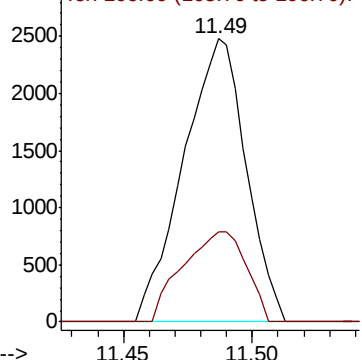
Ion Ratio Lower Upper

91 100

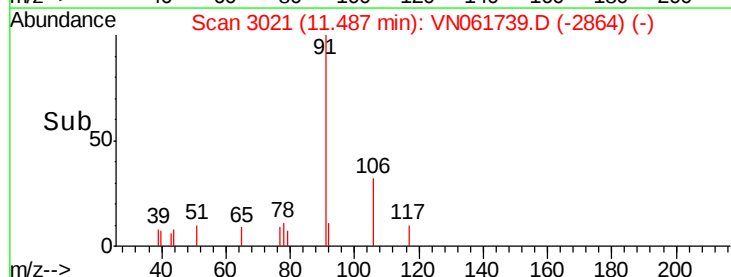
106 31.9 25.7 38.5

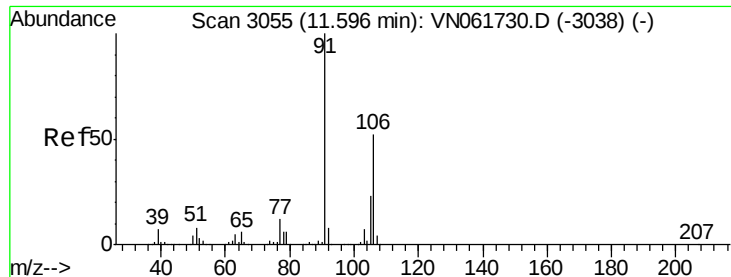


Abundance Ion 91.00 (90.70 to 91.70): VN061739.D (-3007) (-)



Time-->





#67

m/p-Xylenes

Concen: 1.072 ug/l

RT: 11.59 min Scan# 3053

Delta R.T. -0.01 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

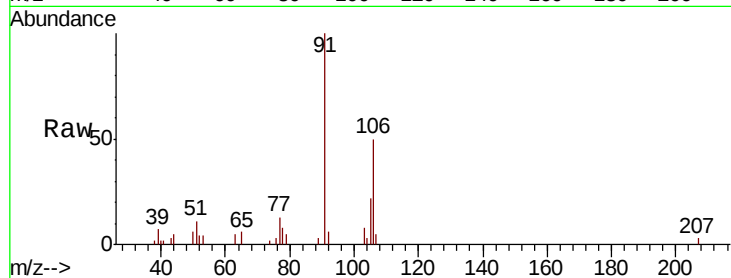
002-35TH-AVE(JUNE)

Tot Ion:106 Resp: 6340

Ion Ratio Lower Upper

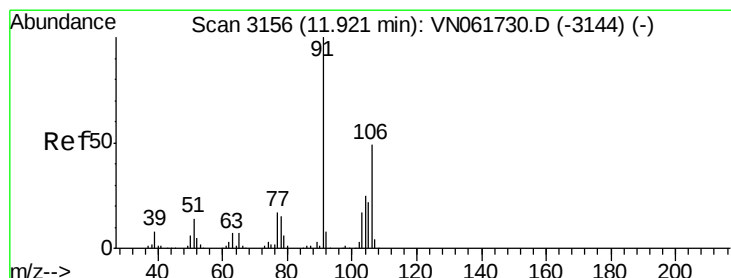
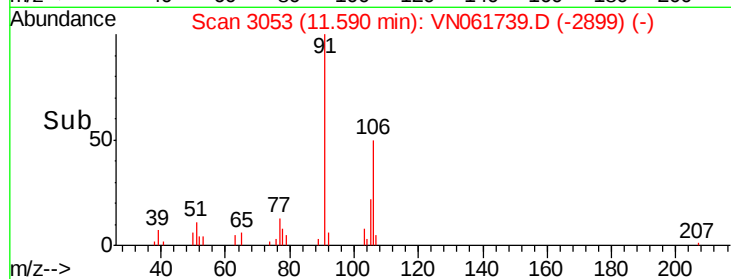
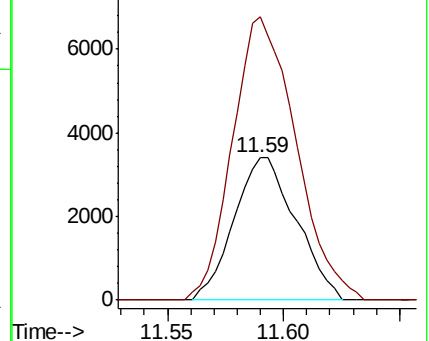
106 100

91 203.0 156.2 234.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 0.423 ug/l

RT: 11.92 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VN061739.D

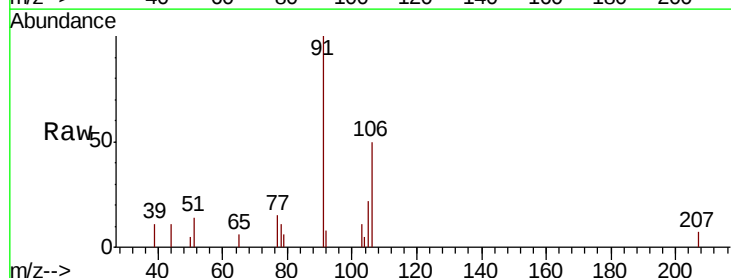
Acq: 10 Jun 2020 16:05

Tgt Ion:106 Resp: 2365

Ion Ratio Lower Upper

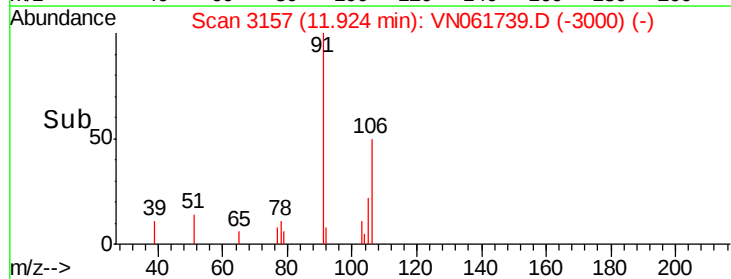
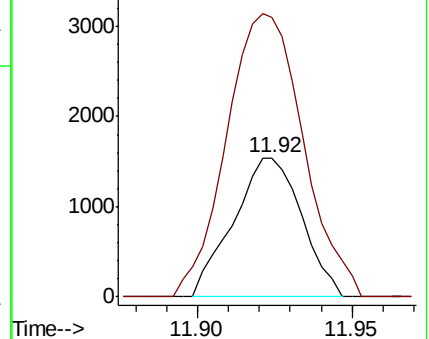
106 100

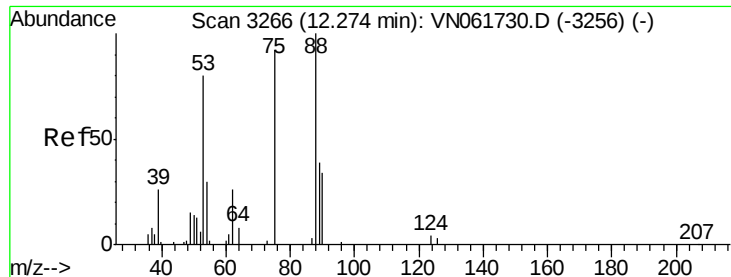
91 229.4 101.9 305.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#77

t-1,4-Dichloro-2-butene

Concen: 39.703 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

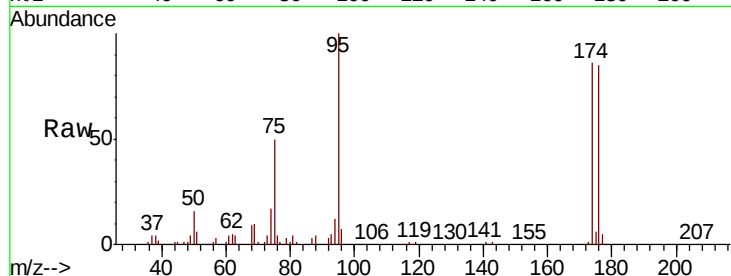
Tot Ion: 75 Resp: 52923

Ion Ratio Lower Upper

75 100

53 0.0 43.8 131.4#

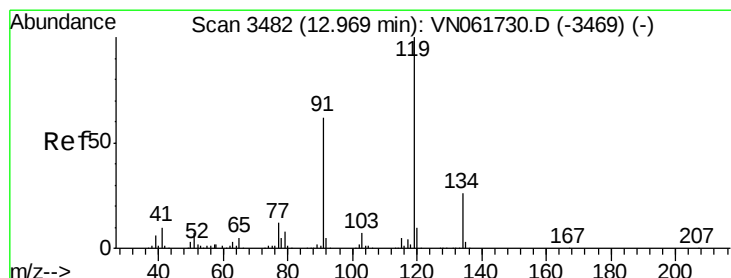
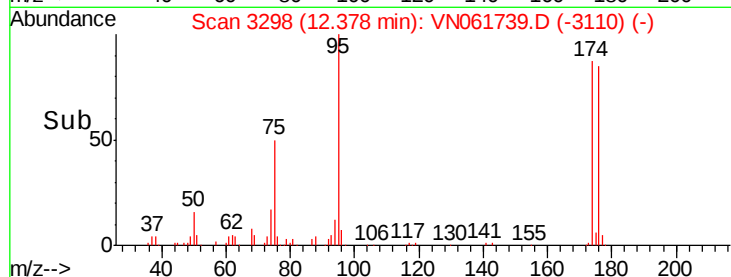
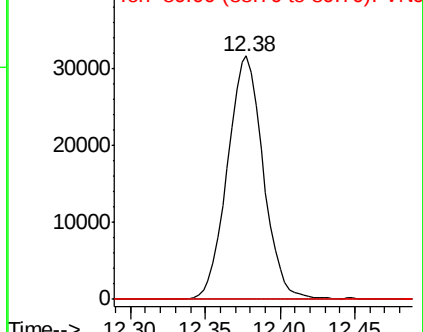
89 0.0 23.1 69.2#



Abundance Ion 75.00 (74.70 to 75.70): VN061739.D (-3110) (-)

Ion 53.00 (52.70 to 53.70): VN061739.D (-3110) (-)

Ion 89.00 (88.70 to 89.70): VN061739.D (-3110) (-)



#79

tert-butylbenzene

Concen: 0.223 ug/l

RT: 13.27 min Scan# 3575

Delta R.T. 0.30 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

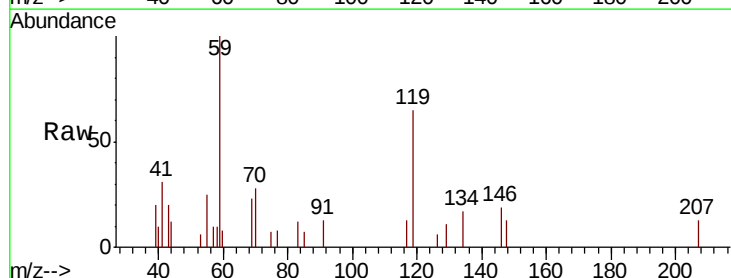
Tgt Ion: 119 Resp: 2370

Ion Ratio Lower Upper

119 100

91 27.1 0.0 124.6

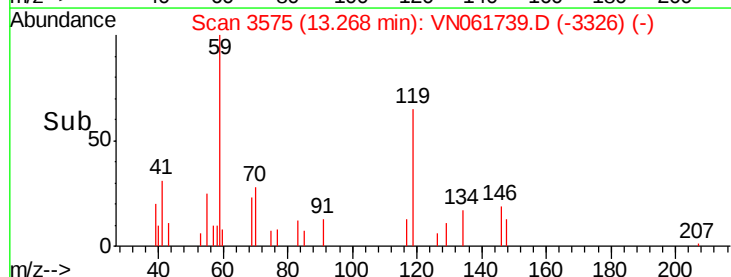
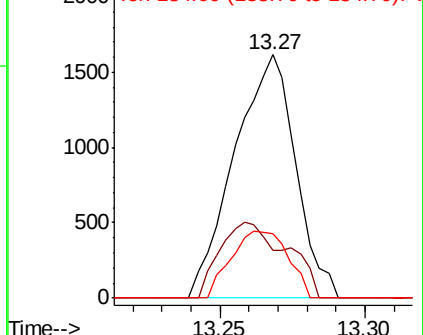
134 25.6 0.0 51.4

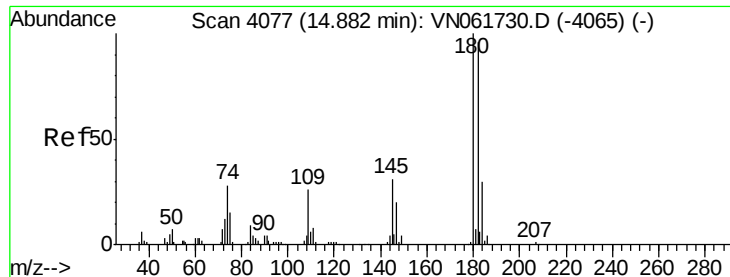


Abundance Ion 119.00 (118.70 to 119.70): VN061739.D (-3326) (-)

Ion 91.00 (90.70 to 91.70): VN061739.D (-3326) (-)

Ion 134.00 (133.70 to 134.70): VN061739.D (-3326) (-)

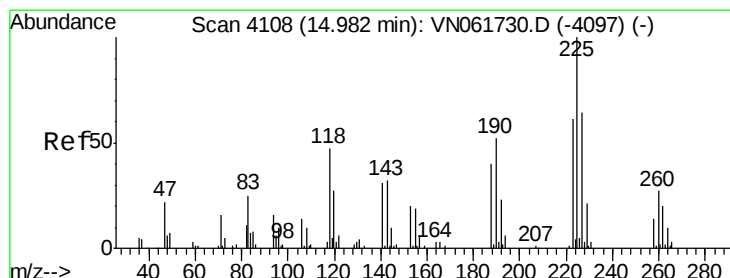
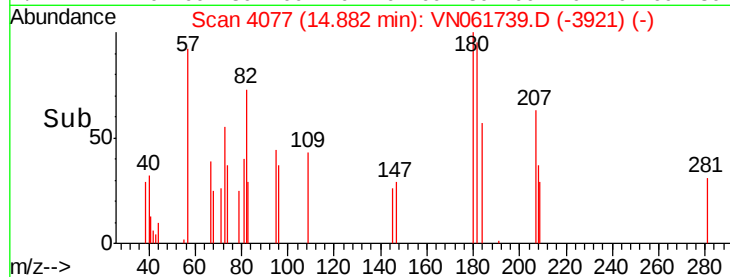
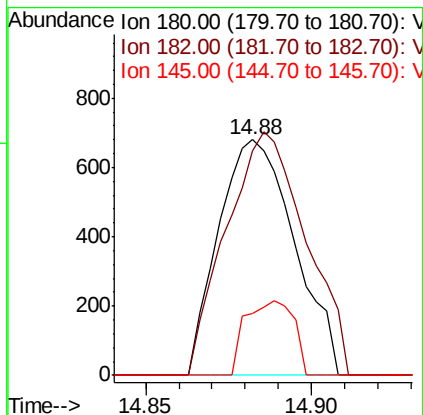
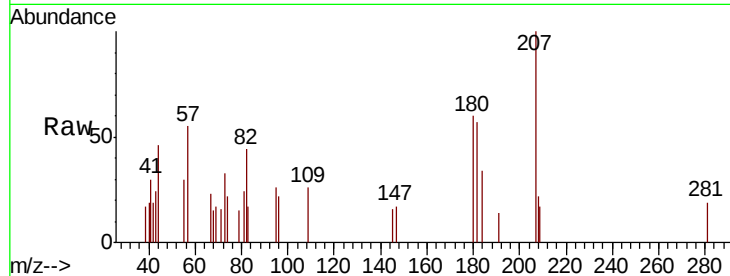




#89
 1,2,4-Trichlorobenzene
 Concen: 0.273 ug/l
 RT: 14.88 min Scan# 4077
 Delta R.T. 0.00 min
 Lab File: VN061739.D
 Acq: 10 Jun 2020 16:05

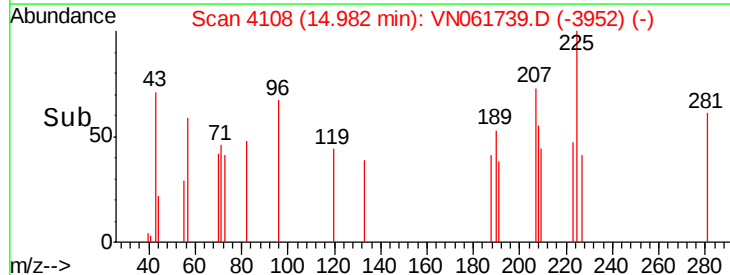
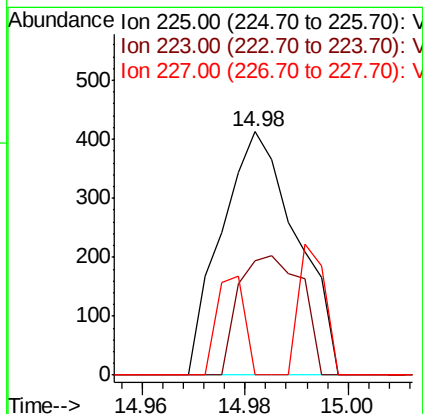
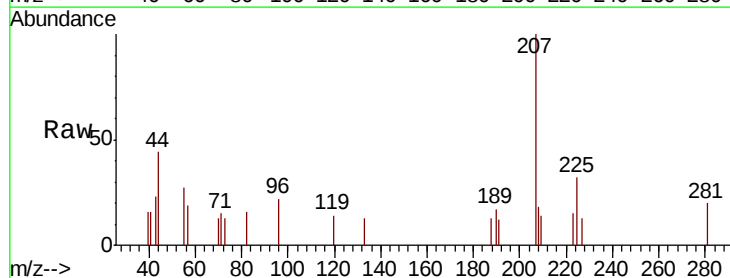
Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(JUNE)

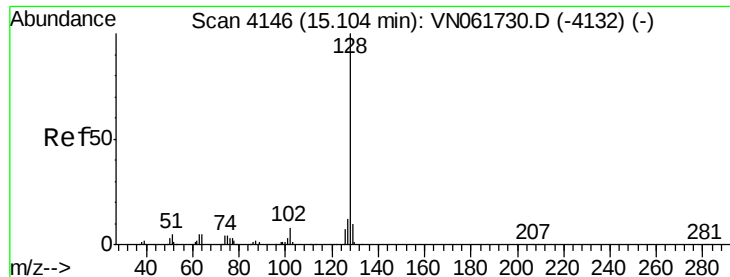
Tot Ion:180 Resp: 1082
 Ion Ratio Lower Upper
 180 100
 182 108.4 75.6 113.4
 145 20.1 24.5 36.7#



#90
 Hexachlorobutadiene
 Concen: 0.243 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. 0.00 min
 Lab File: VN061739.D
 Acq: 10 Jun 2020 16:05

Tgt Ion:225 Resp: 418
 Ion Ratio Lower Upper
 225 100
 223 41.1 0.0 121.6
 227 15.1 0.0 126.8





#91

Naphthalene

Concen: 0.407 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(JUNE)

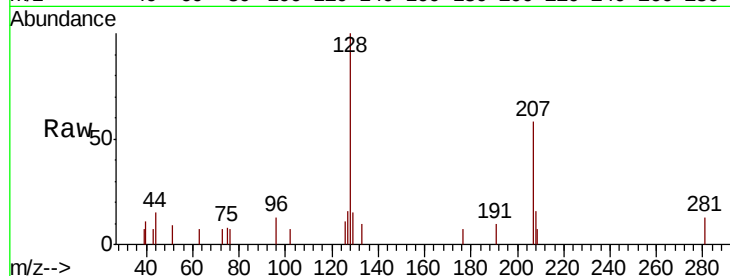
Tot Ion:128 Resp: 4479

Ion Ratio Lower Upper

128 100

127 11.7 10.2 15.2

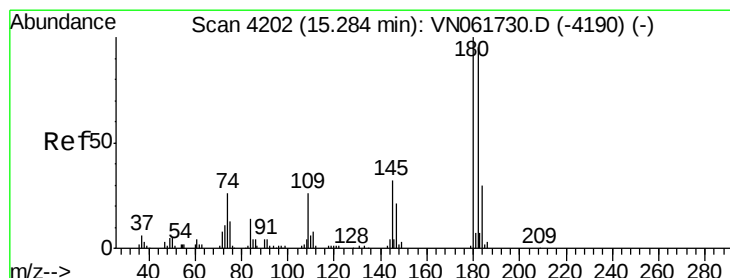
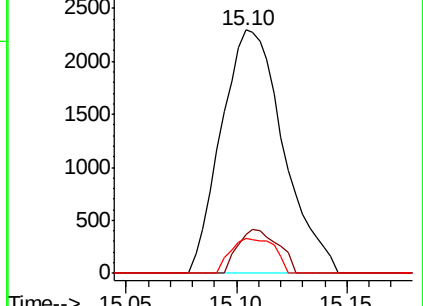
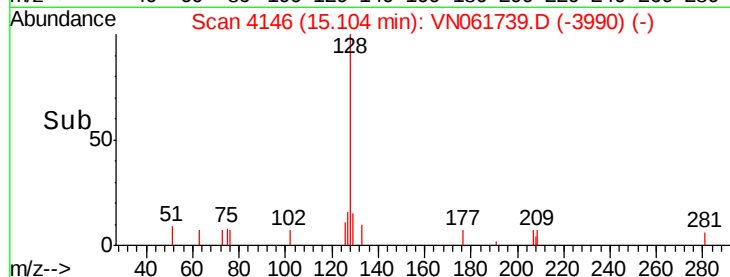
129 10.2 8.6 12.8



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



#92

1,2,3-Trichlorobenzene

Concen: 0.306 ug/l

RT: 15.29 min Scan# 4203

Delta R.T. 0.00 min

Lab File: VN061739.D

Acq: 10 Jun 2020 16:05

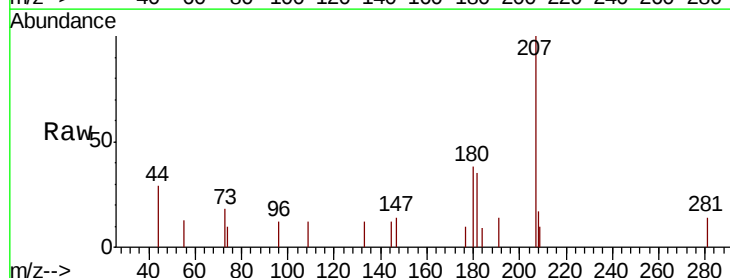
Tgt Ion:180 Resp: 1188

Ion Ratio Lower Upper

180 100

182 69.4 0.0 191.0

145 11.8 0.0 64.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

