

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082620\
 Data File : VN063139.D
 Acq On : 26 Aug 2020 17:47
 Operator : JC/MD
 Sample : L3792-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 COMP-1

Quant Time: Aug 27 01:31:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	161745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	273038	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	279330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	133702	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	99815	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
35) Dibromofluoromethane	7.55	113	88450	49.72	ug/l	0.00
Spiked Amount			Recovery	=	99.44%	
50) Toluene-d8	10.06	98	347838	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	12.38	95	134826	55.91	ug/l	0.00
Spiked Amount			Recovery	=	111.82%	

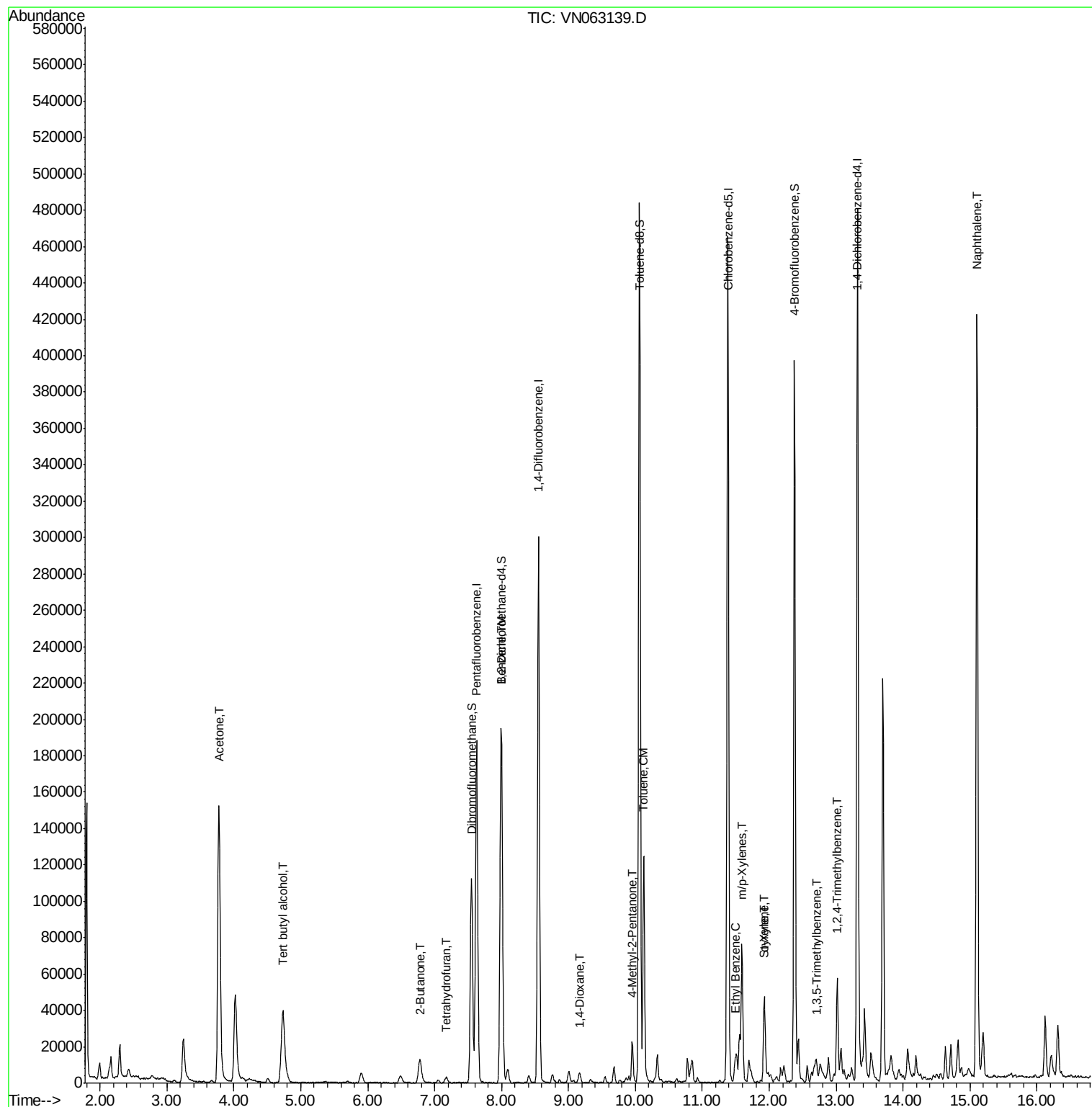
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	77755	286.357	ug/l	99
16) Acetone	3.78	43	260164	438.164	ug/l	99
25) 2-Butanone	6.79	43	10962	10.771	ug/l	98
29) Tetrahydrofuran	7.18	42	1607	2.447	ug/l #	88
40) Benzene	8.00	78	115391	15.120	ug/l	99
49) 1,4-Dioxane	9.17	88	3499	103.889	ug/l #	85
51) 4-Methyl-2-Pentanone	9.95	43	16299	6.904	ug/l	95
52) Toluene	10.13	92	56290	12.227	ug/l	99
67) Ethyl Benzene	11.49	91	12756	1.346	ug/l	97
68) m/p-Xylenes	11.59	106	24317	6.902	ug/l	98
69) o-Xylene	11.92	106	11723	3.465	ug/l	99
70) Styrene	11.94	104	10309	3.400	ug/l	87
80) 1,3,5-Trimethylbenzene	12.71	105	3958	0.523	ug/l	94
84) 1,2,4-Trimethylbenzene	13.02	105	32389	4.393	ug/l	97
95) Naphthalene	15.10	128	369713	67.126	ug/l	99

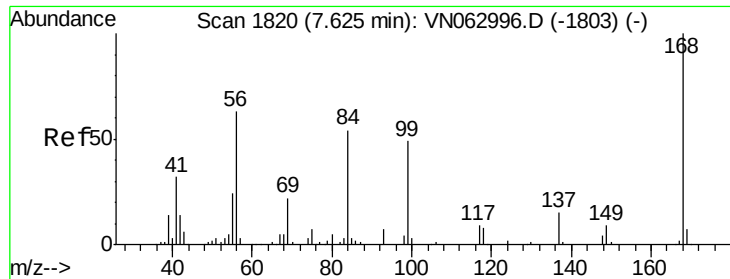
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

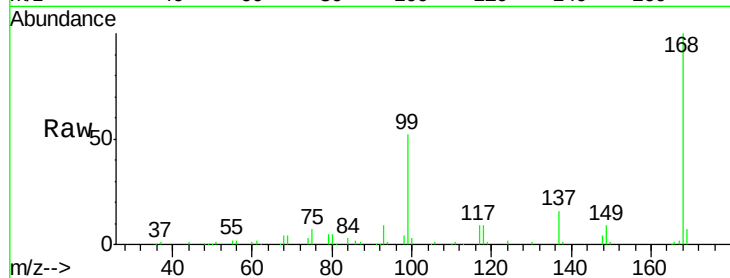
COMP-1

Tot Ion:168 Resp: 161745

Ion Ratio Lower Upper

168 100

99 52.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

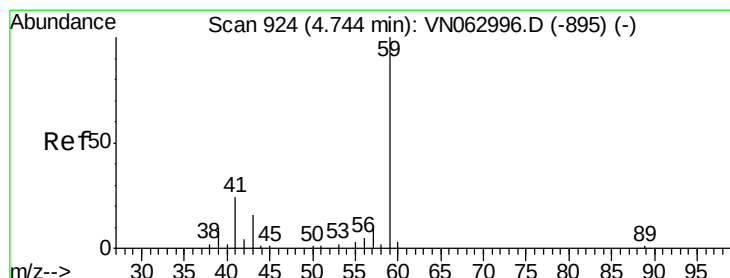
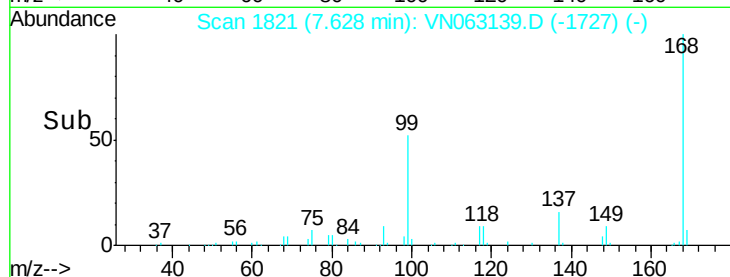
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 286.357 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.01 min

Lab File: VN063139.D

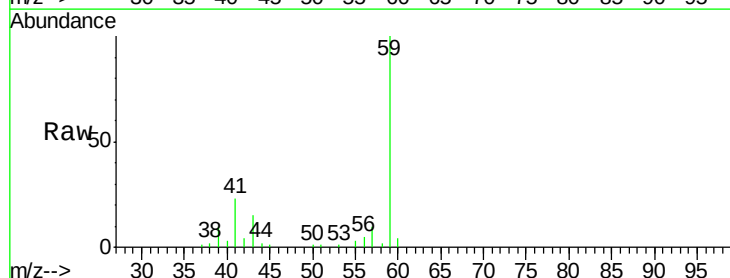
Acq: 26 Aug 2020 17:47

Tgt Ion: 59 Resp: 77755

Ion Ratio Lower Upper

59 100

57 10.1 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

25000

20000

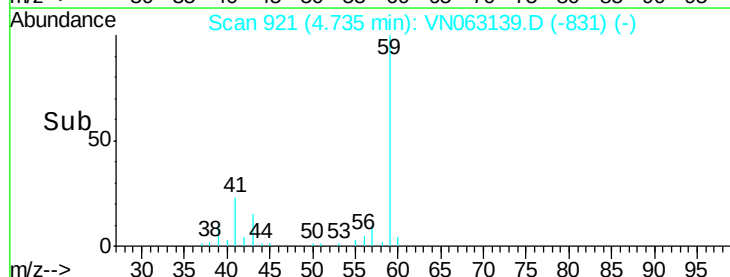
15000

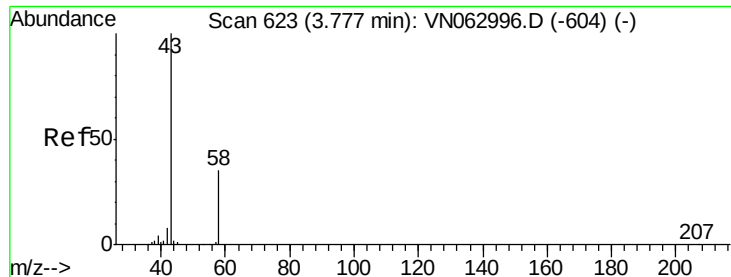
10000

5000

0

Time--> 4.60 4.70 4.80 4.90





#16

Acetone

Concen: 438.164 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

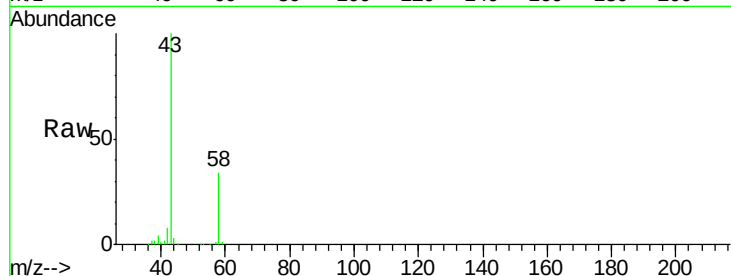
COMP-1

Tot Ion: 43 Resp: 260164

Ion Ratio Lower Upper

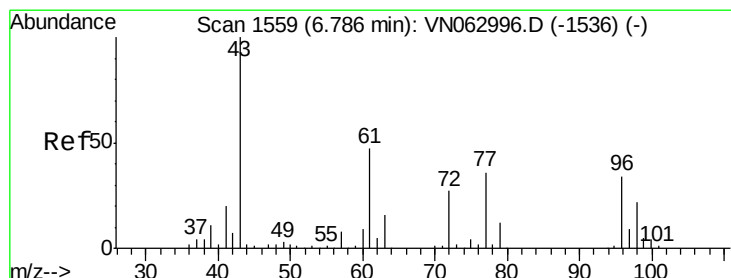
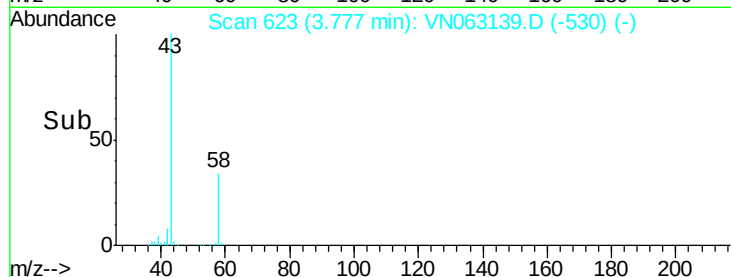
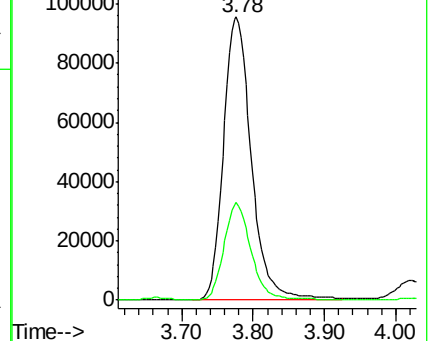
43 100

58 34.4 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#25

2-Butanone

Concen: 10.771 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN063139.D

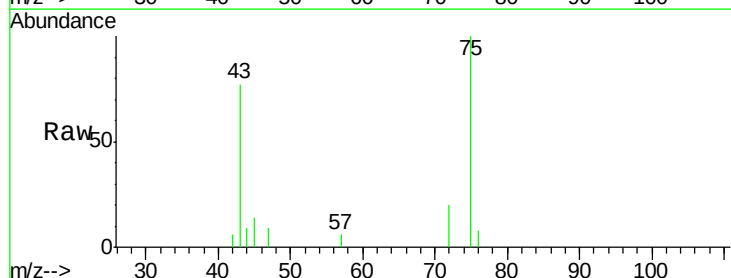
Acq: 26 Aug 2020 17:47

Tgt Ion: 43 Resp: 10962

Ion Ratio Lower Upper

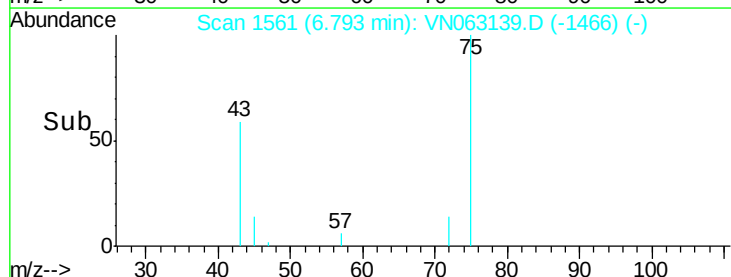
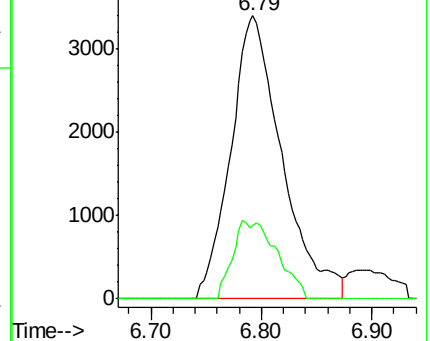
43 100

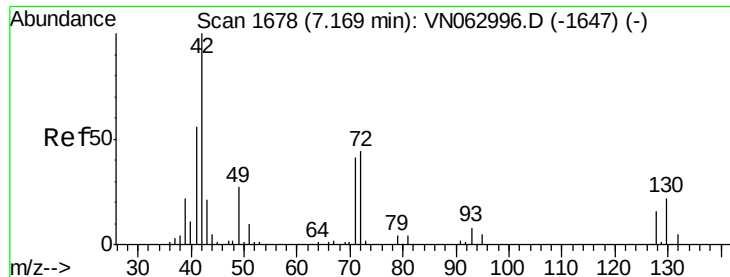
72 26.1 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 2.447 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

COMP-1

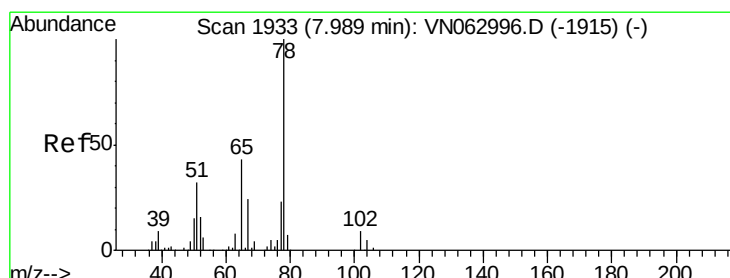
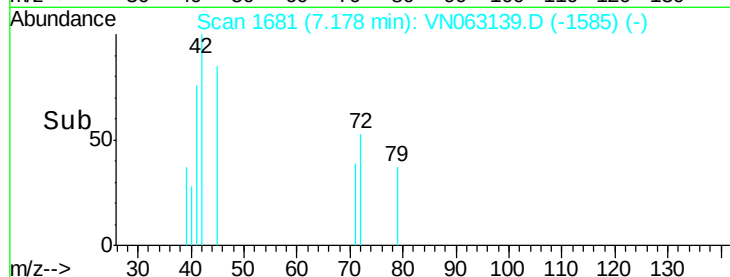
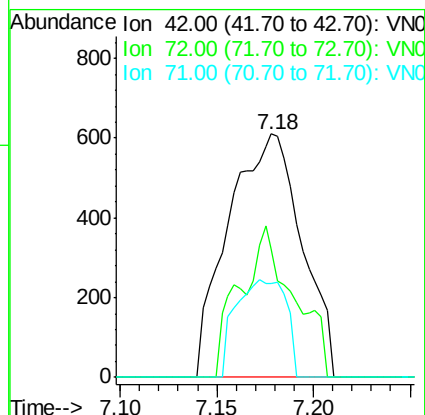
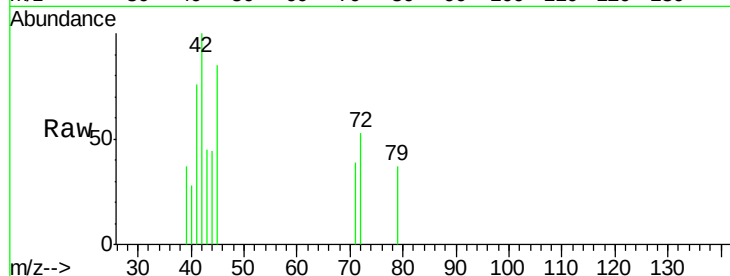
Tot Ion: 42 Resp: 1607

Ion Ratio Lower Upper

42 100

72 45.9 34.6 52.0

71 27.4 32.3 48.5#



#33

1,2-Dichloroethane-d4

Concen: 52.069 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN063139.D

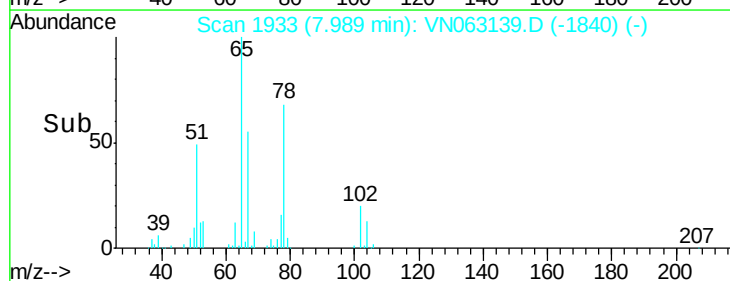
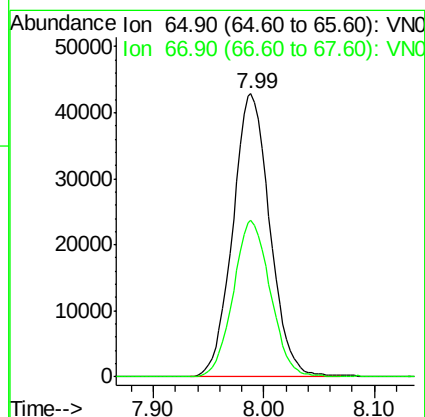
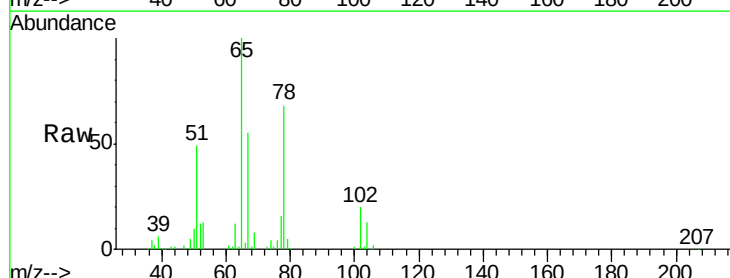
Acq: 26 Aug 2020 17:47

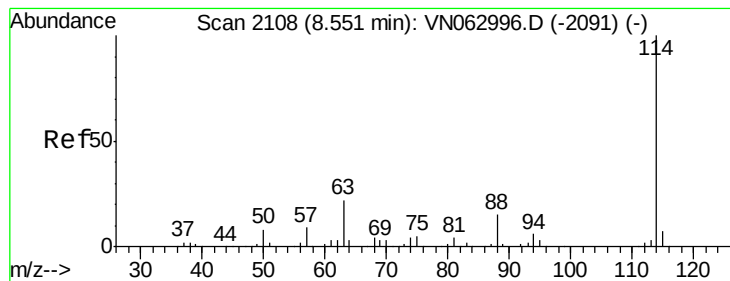
Tgt Ion: 65 Resp: 99815

Ion Ratio Lower Upper

65 100

67 55.2 0.0 112.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1

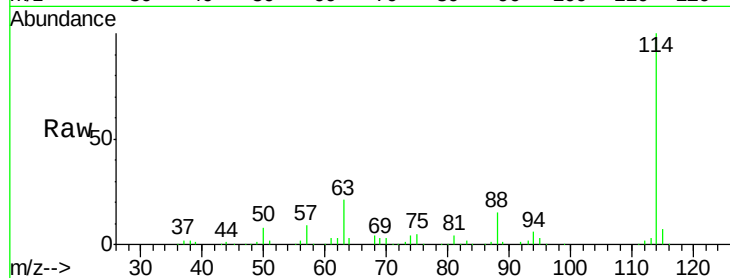
Tot Ion:114 Resp: 273038

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

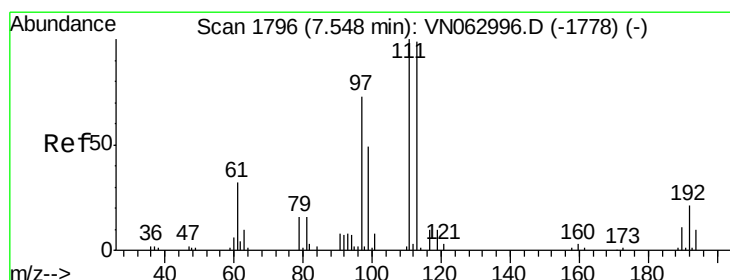
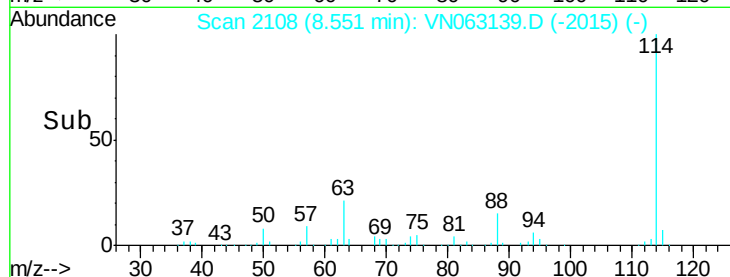
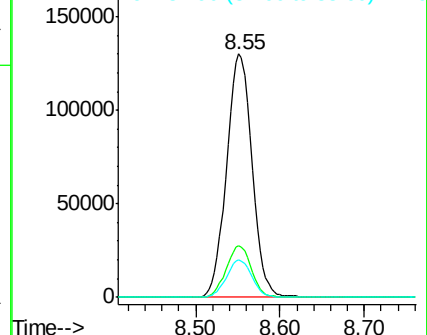
88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.716 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

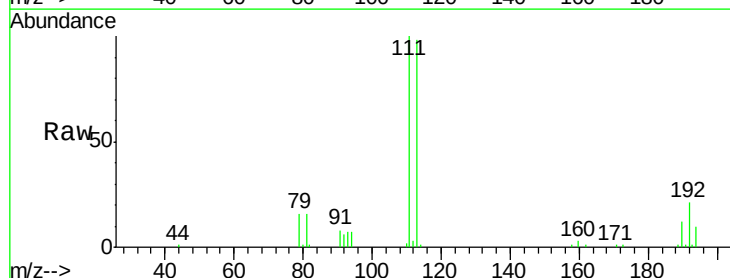
Tgt Ion:113 Resp: 88450

Ion Ratio Lower Upper

113 100

111 100.9 81.7 122.5

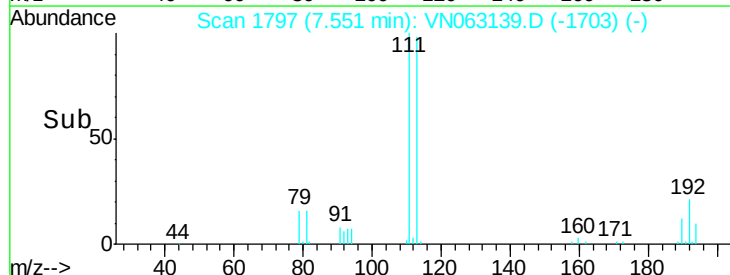
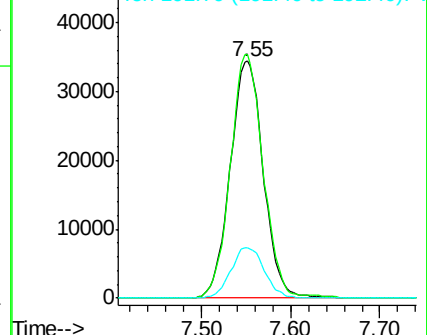
192 21.3 17.5 26.3

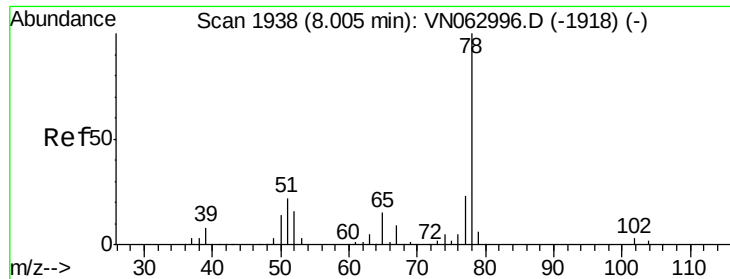


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 15.120 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

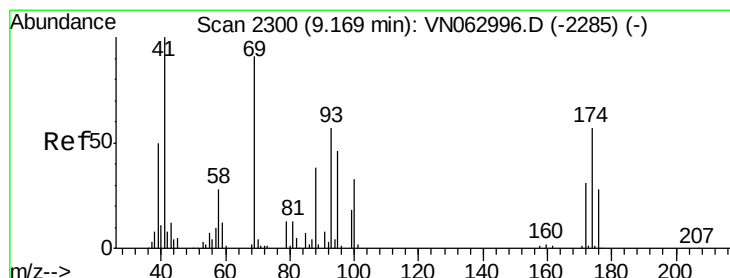
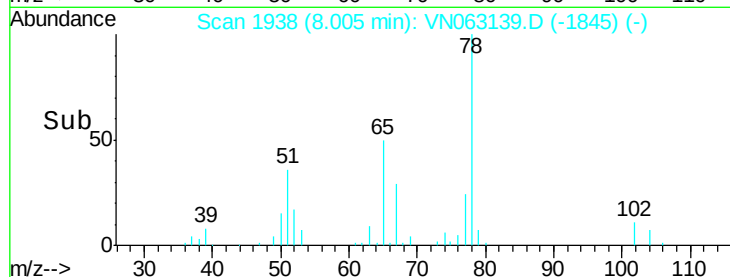
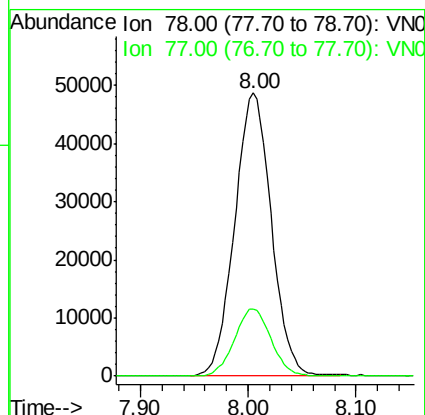
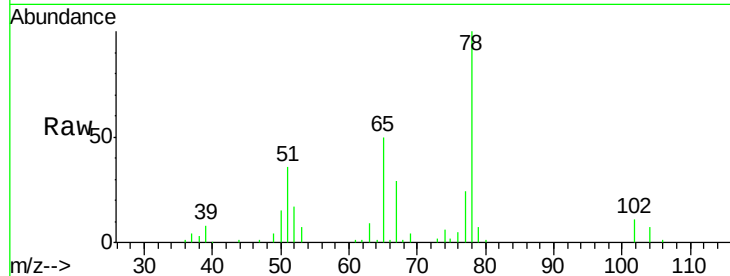
COMP-1

Tot Ion: 78 Resp: 115391

Ion Ratio Lower Upper

78 100

77 23.8 18.8 28.2



#49

1,4-Dioxane

Concen: 103.889 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

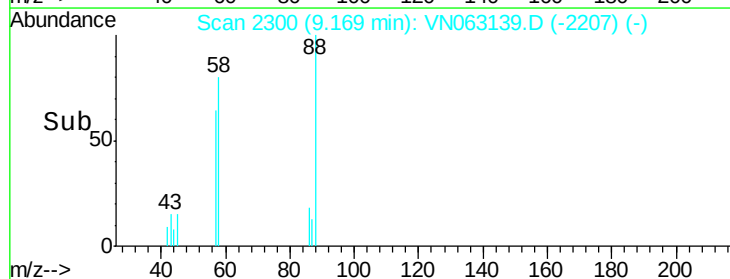
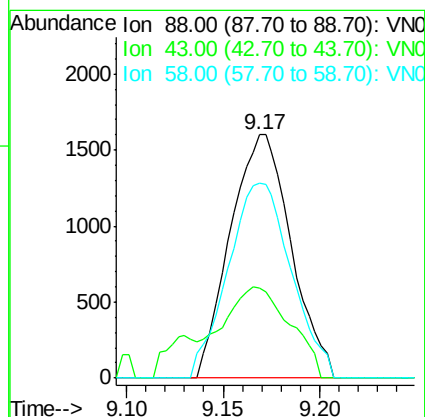
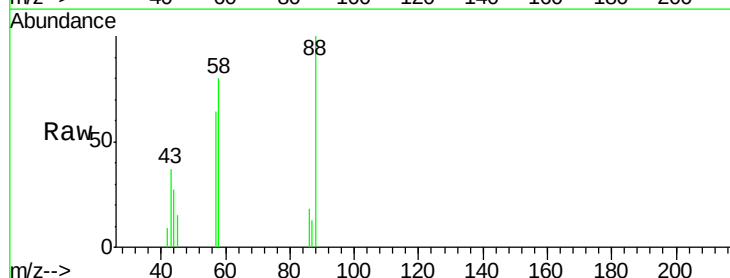
Tgt Ion: 88 Resp: 3499

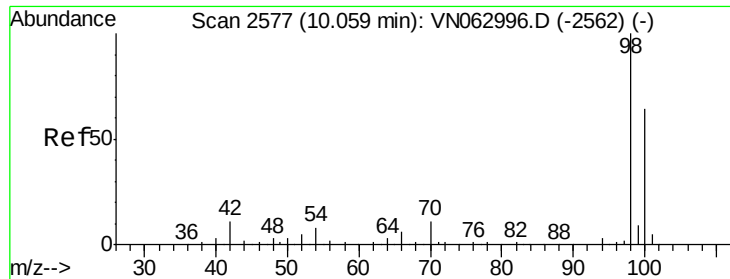
Ion Ratio Lower Upper

88 100

43 40.3 25.2 37.8#

58 83.4 56.7 85.1





#50

Toluene-d8

Concen: 50.901 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

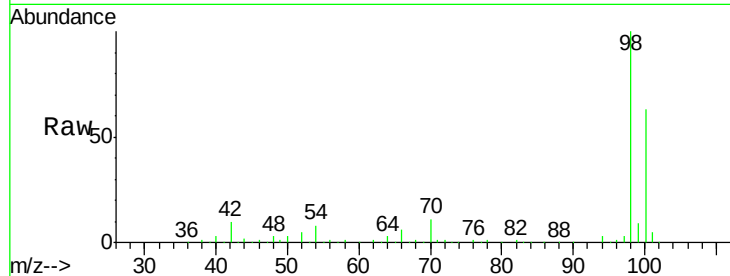
COMP-1

Tot Ion: 98 Resp: 347838

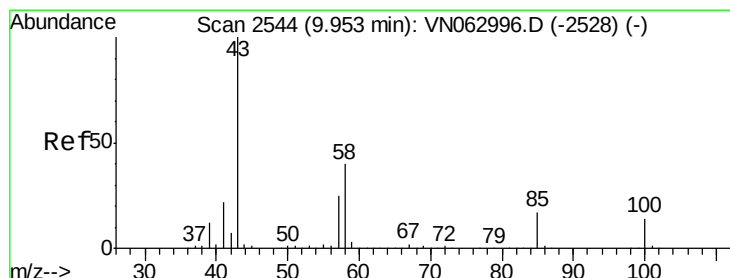
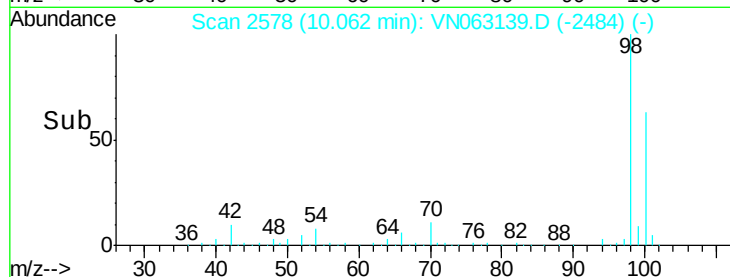
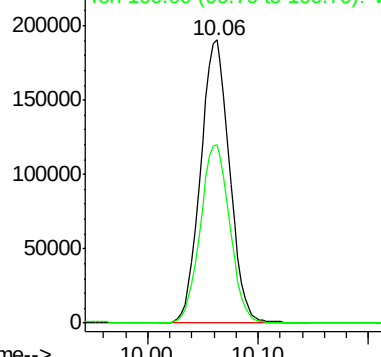
Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062996.D (-2562) (-)



#51

4-Methyl-2-Pentanone

Concen: 6.904 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN063139.D

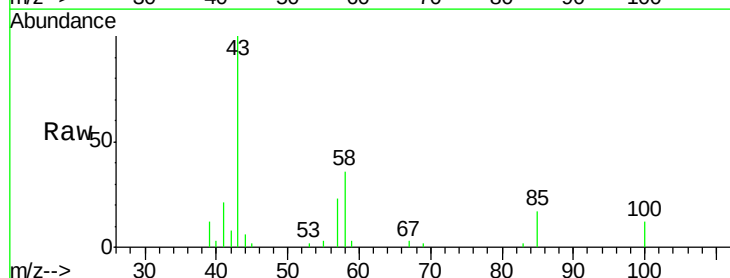
Acq: 26 Aug 2020 17:47

Tgt Ion: 43 Resp: 16299

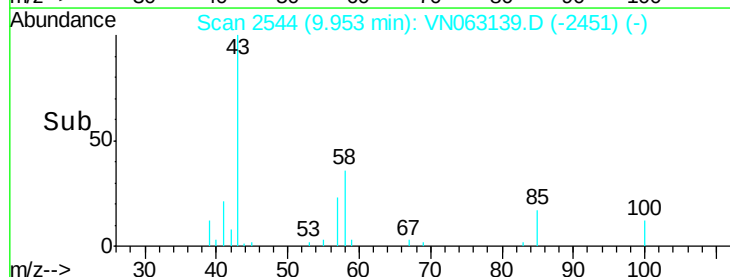
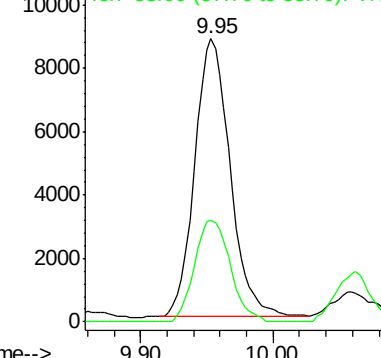
Ion Ratio Lower Upper

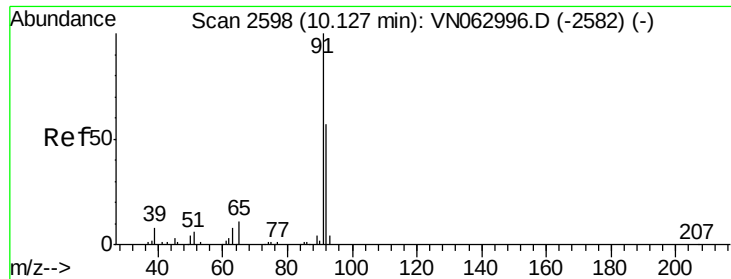
43 100

58 36.8 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2528) (-)





#52

Toluene

Concen: 12.227 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampleId :

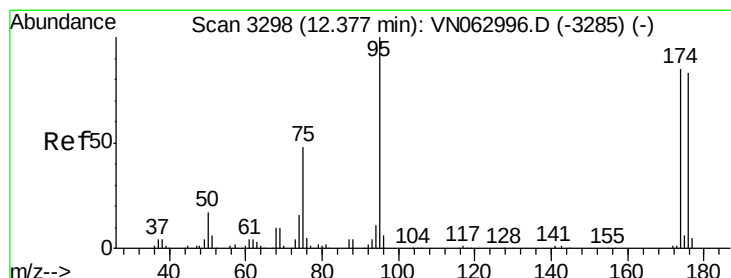
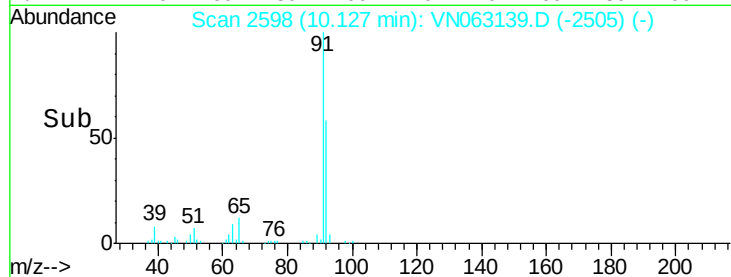
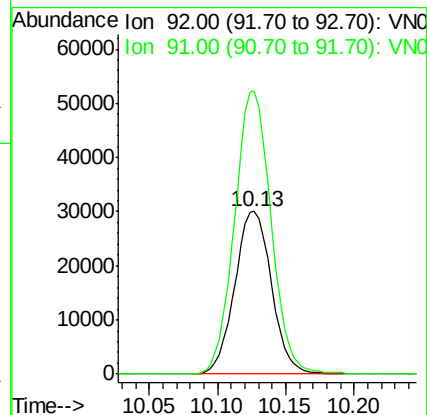
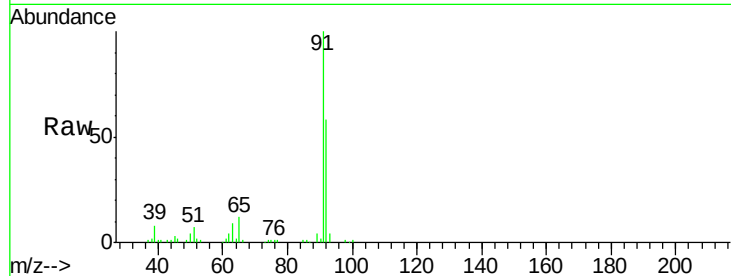
COMP-1

Tot Ion: 92 Resp: 56290

Ion Ratio Lower Upper

92 100

91 173.0 139.2 208.8



#62

4-Bromofluorobenzene

Concen: 55.910 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

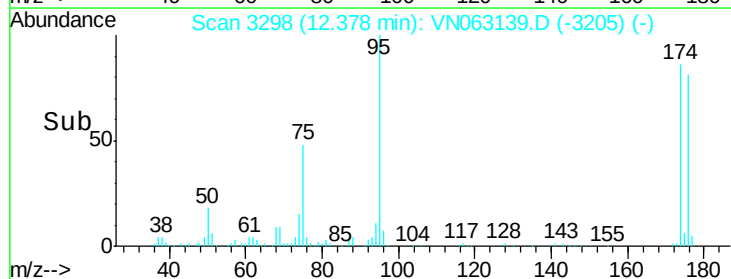
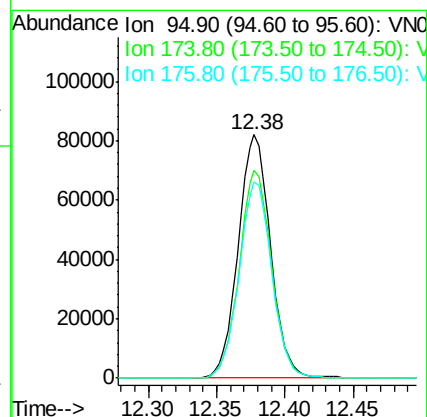
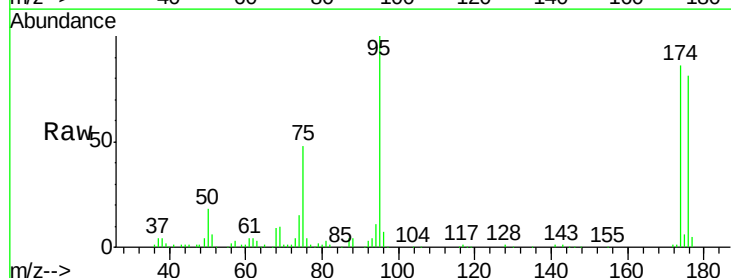
Tgt Ion: 95 Resp: 134826

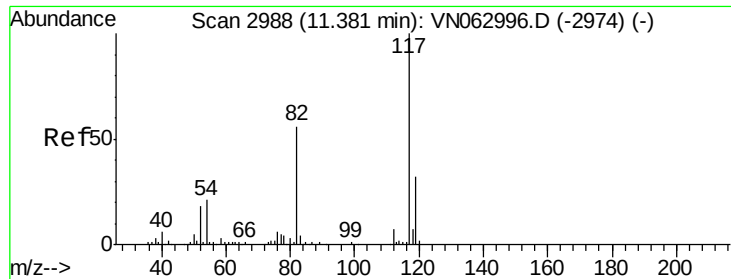
Ion Ratio Lower Upper

95 100

174 85.6 0.0 170.8

176 81.6 0.0 164.8

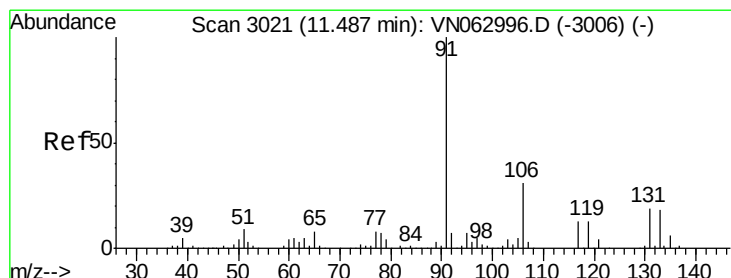
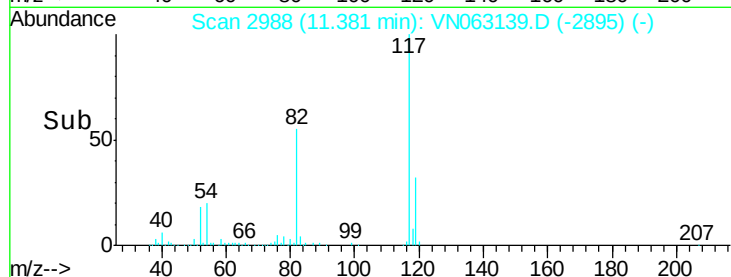
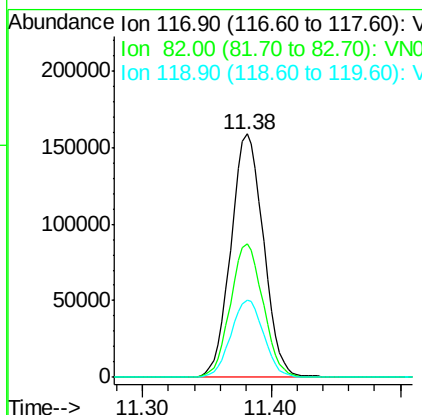
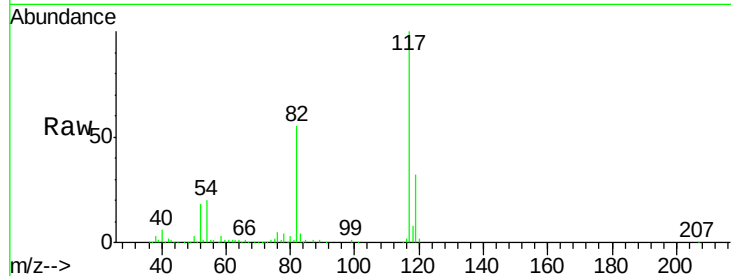




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063139.D
Acq: 26 Aug 2020 17:47

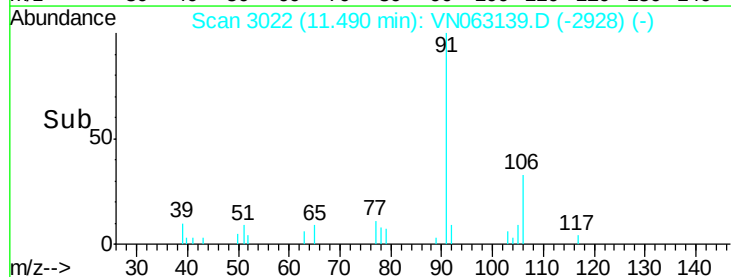
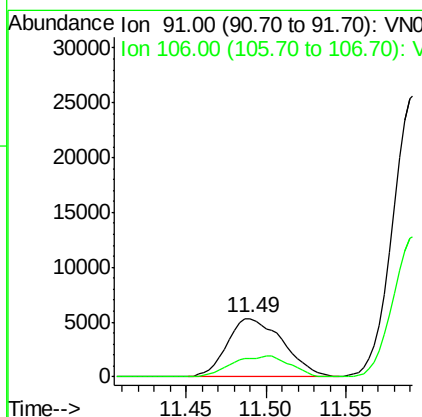
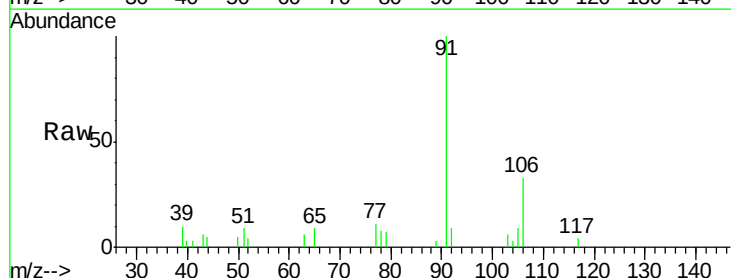
Instrument :
MSVOA_N
ClientSampleId :
COMP-1

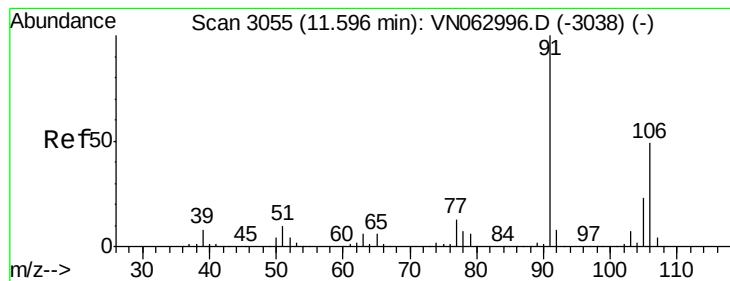
Tot Ion:117 Resp: 279330
Ion Ratio Lower Upper
117 100
82 55.0 44.5 66.7
119 31.8 25.5 38.3



#67
Ethyl Benzene
Concen: 1.346 ug/l
RT: 11.49 min Scan# 3022
Delta R.T. 0.00 min
Lab File: VN063139.D
Acq: 26 Aug 2020 17:47

Tgt Ion: 91 Resp: 12756
Ion Ratio Lower Upper
91 100
106 32.6 24.6 37.0





#68

m/p-Xylenes

Concen: 6.902 ug/l

RT: 11.59 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampleId :

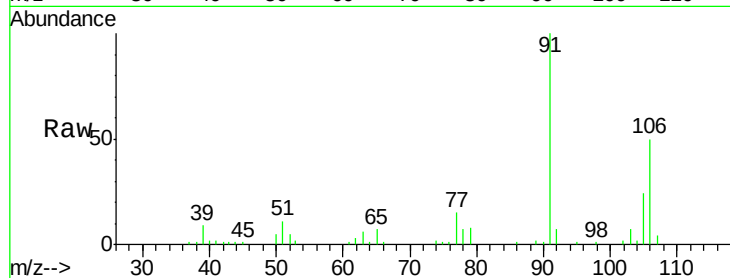
COMP-1

Tot Ion:106 Resp: 24317

Ion Ratio Lower Upper

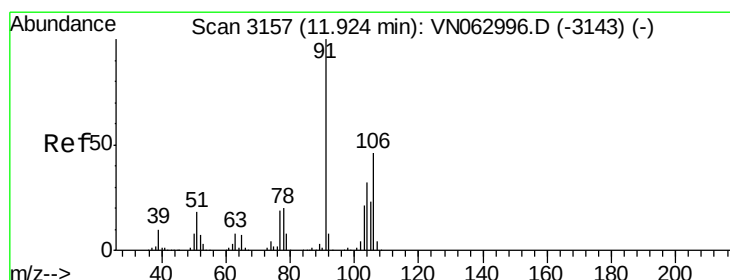
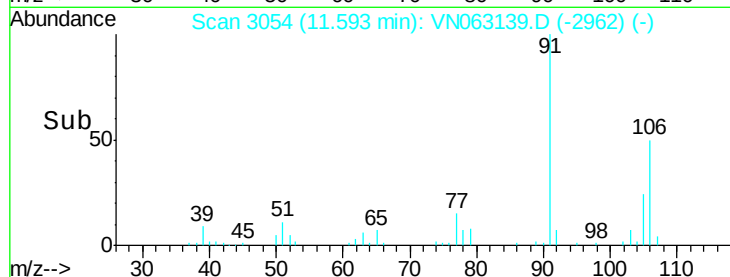
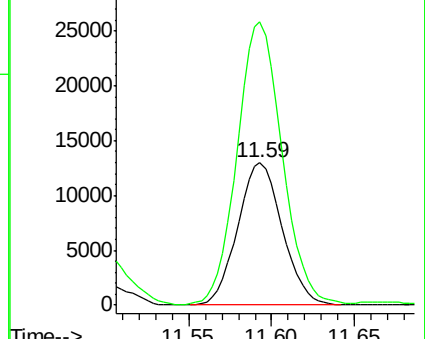
106 100

91 201.4 163.0 244.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 3.465 ug/l

RT: 11.92 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VN063139.D

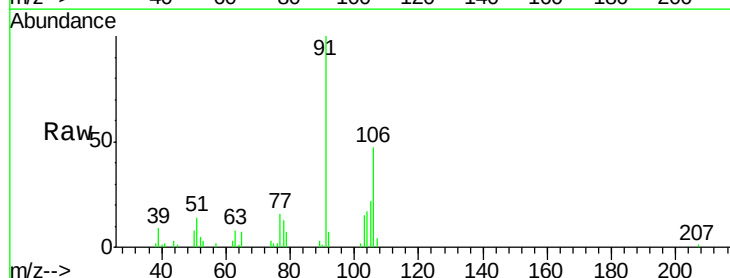
Acq: 26 Aug 2020 17:47

Tgt Ion:106 Resp: 11723

Ion Ratio Lower Upper

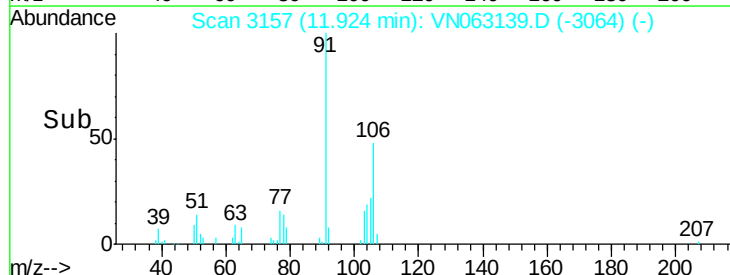
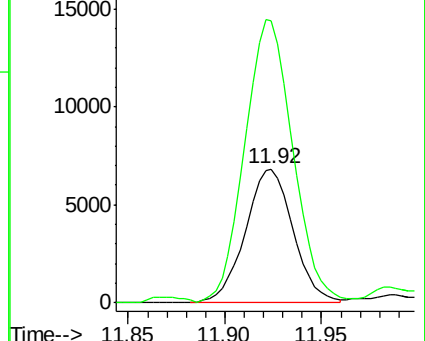
106 100

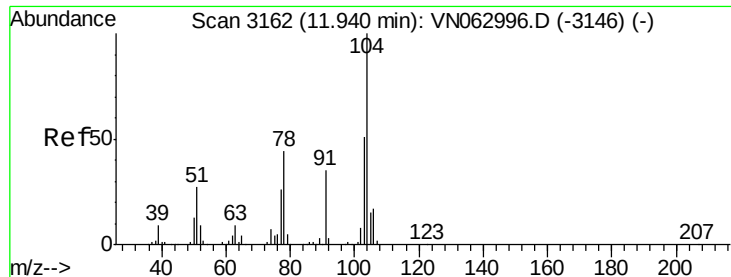
91 213.4 107.3 321.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#70

Stvrene

Concen: 3.400 ug/l

RT: 11.94 min Scan# 3162

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampled :

COMP-1

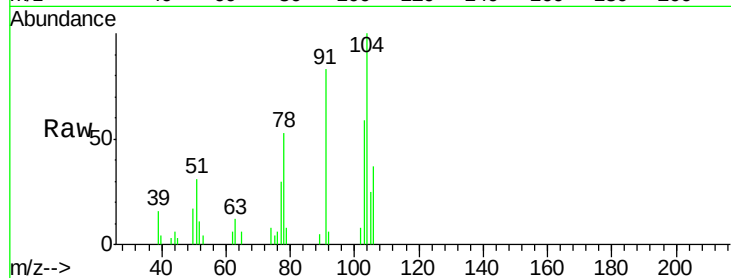
Tot Ion:104 Resp: 10309

Ion Ratio Lower Upper

104 100

78 58.1 39.0 58.6

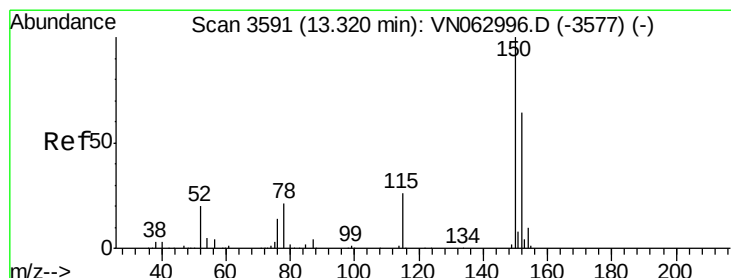
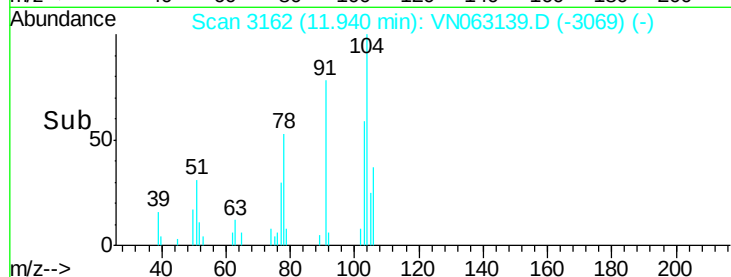
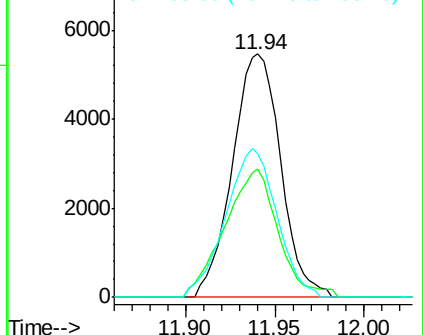
103 64.7 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

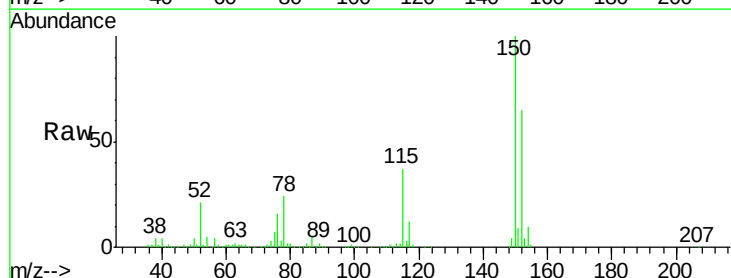
Tgt Ion:152 Resp: 133702

Ion Ratio Lower Upper

152 100

115 56.7 28.7 86.3

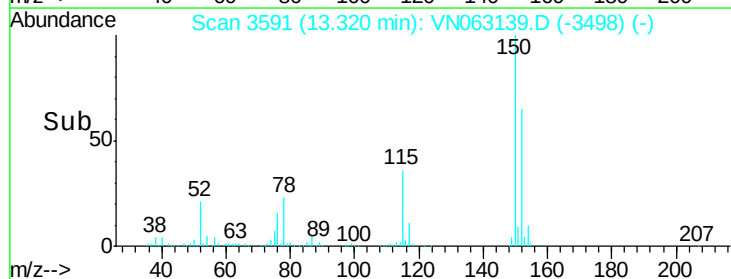
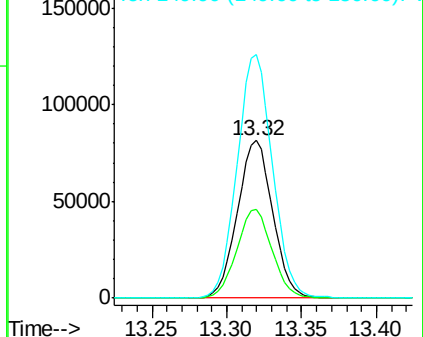
150 155.1 0.0 348.8

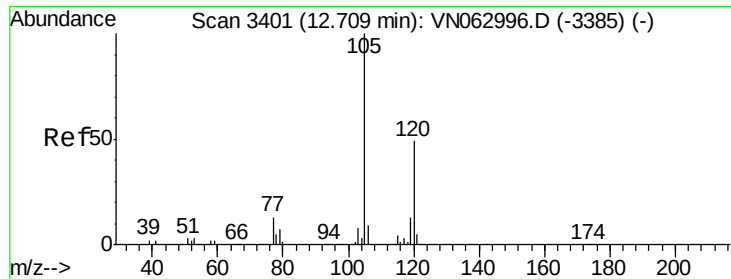


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

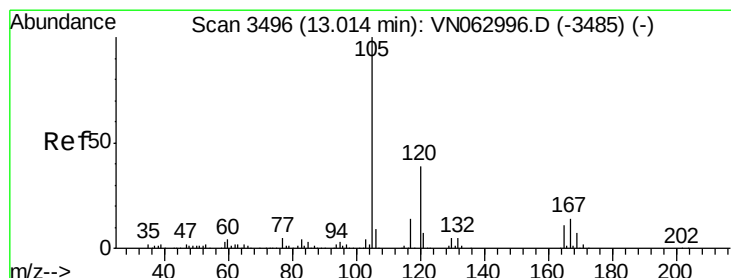
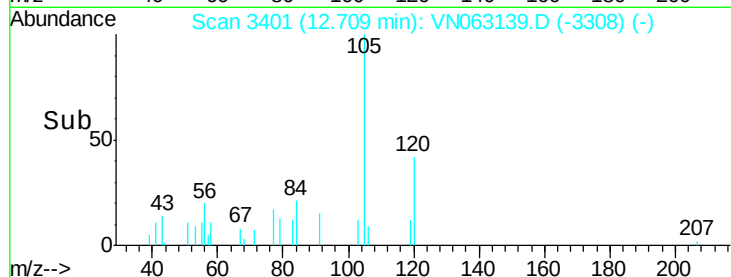
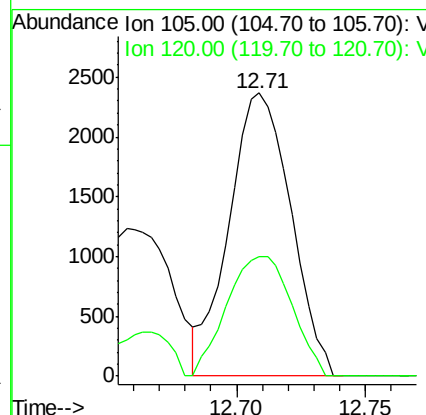
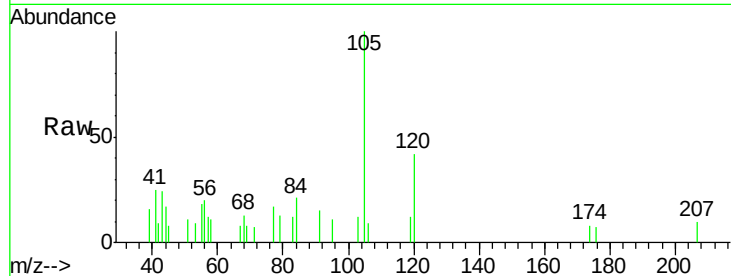




#80
 1,3,5-Trimethylbenzene
 Concen: 0.523 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN063139.D
 Acq: 26 Aug 2020 17:47

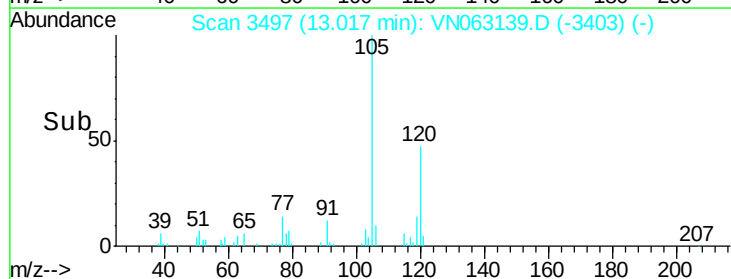
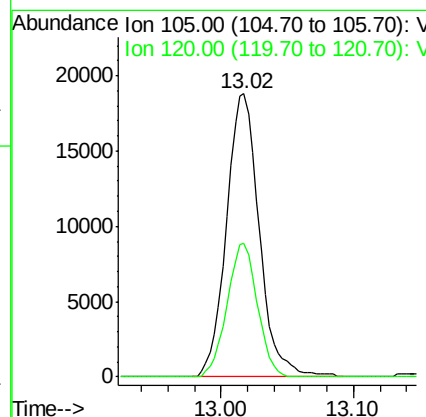
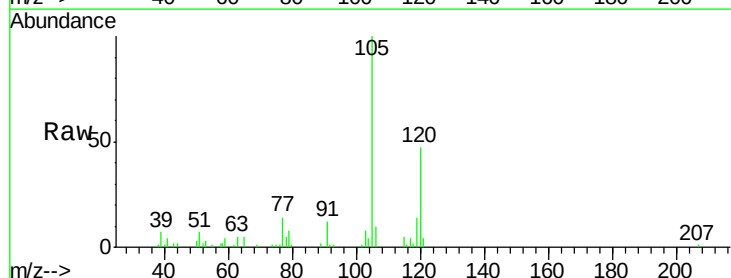
Instrument :
 MSVOA_N
 ClientSampled :
 COMP-1

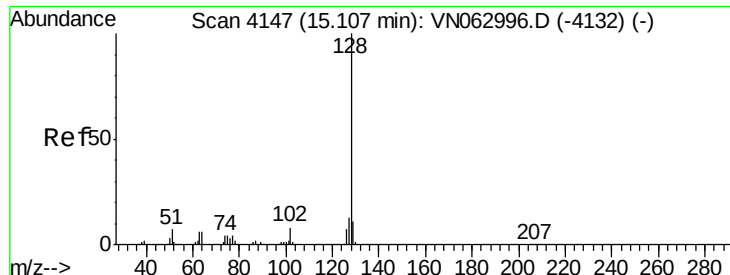
Tot Ion:105 Resp: 3958
 Ion Ratio Lower Upper
 105 100
 120 44.4 24.3 72.8



#84
 1,2,4-Trimethylbenzene
 Concen: 4.393 ug/l
 RT: 13.02 min Scan# 3497
 Delta R.T. 0.00 min
 Lab File: VN063139.D
 Acq: 26 Aug 2020 17:47

Tgt Ion:105 Resp: 32389
 Ion Ratio Lower Upper
 105 100
 120 43.2 22.5 67.5





#95

Naphthalene

Concen: 67.126 ug/l

RT: 15.10 min Scan# 4146

Delta R.T. -0.00 min

Lab File: VN063139.D

Acq: 26 Aug 2020 17:47

Instrument :

MSVOA_N

ClientSampleId :

COMP-1

Tot Ion:128 Resp: 369713

Ion Ratio Lower Upper

128 100

127 12.8 10.6 16.0

129 10.7 8.9 13.3

