

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061896.D
 Acq On : 18 Jun 2020 13:38
 Operator : JC/MD
 Sample : L3011-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB-20200611

Quant Time: Jun 19 05:25:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	126344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	228487	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	210506	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	76358	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	81894	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
35) Dibromofluoromethane	7.55	113	72813	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	10.06	98	278050	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.38	95	86598	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

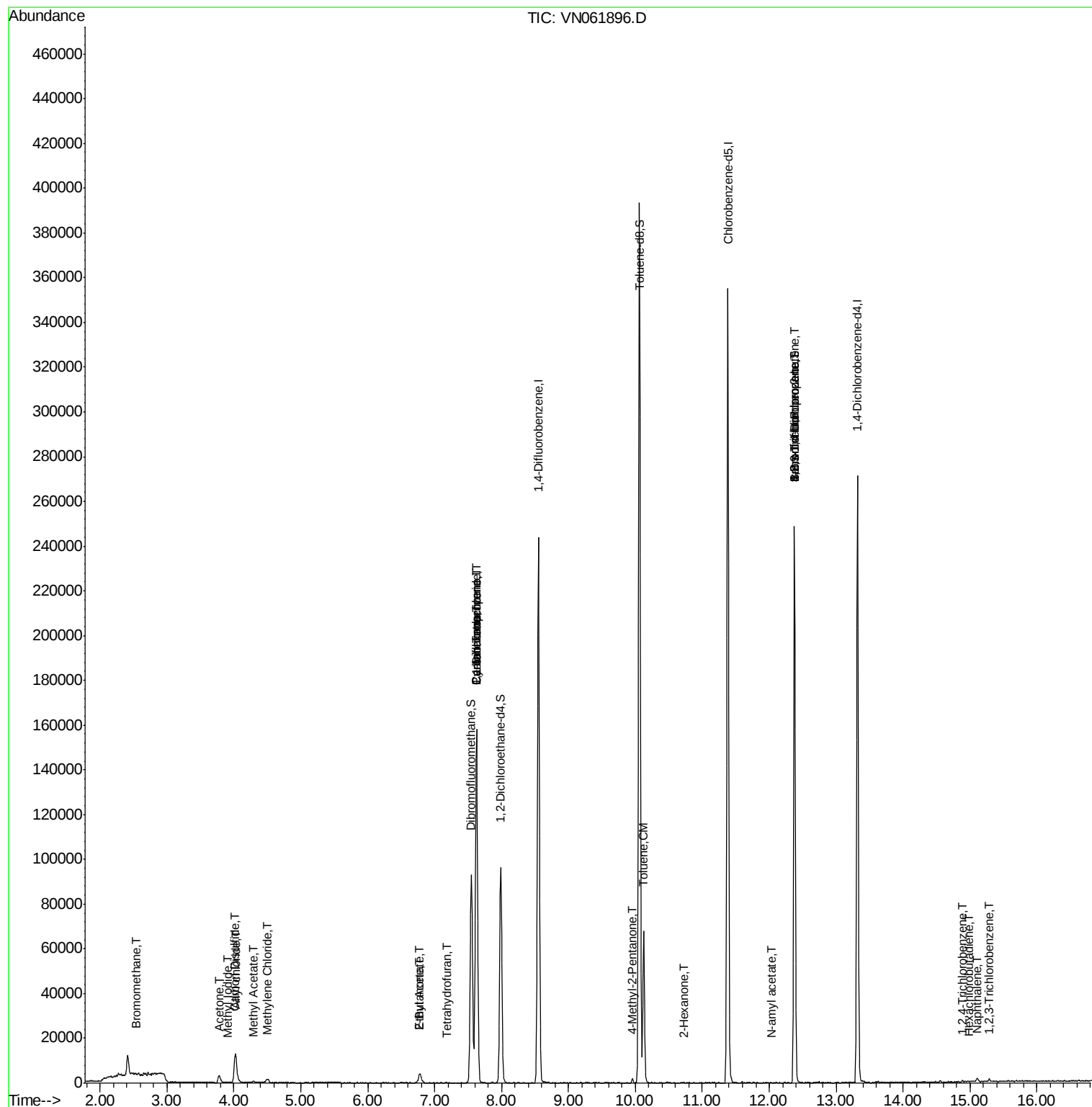
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	436	0.272	ug/l	84
10) Methyl Iodide	3.91	142	97	5.375	ug/l #	42
14) Allyl chloride	4.03	41	2237	1.313	ug/l #	83
16) Acetone	3.79	43	5665	11.318	ug/l	98
17) Carbon Disulfide	4.01	76	1156	0.308	ug/l #	75
18) Methyl Acetate	4.29	43	836	0.580	ug/l #	46
20) Methylene Chloride	4.50	84	760	0.466	ug/l #	92
25) 2-Butanone	6.78	43	542	0.742	ug/l #	44
29) Tetrahydrofuran	7.17	42	260	0.541	ug/l #	26
31) Cyclohexane	7.62	56	2579	1.155	ug/l #	10
36) 1,1-Dichloropropene	7.63	75	9637	4.624	ug/l #	47
37) Ethyl Acetate	6.78	43	542	0.333	ug/l #	65
38) Carbon Tetrachloride	7.63	117	12541	6.077	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	1080	0.666	ug/l	95
52) Toluene	10.13	92	29854	7.530	ug/l	96
59) 2-Hexanone	10.73	43	62	13.452	ug/l #	20
71) Bromoform	12.37	173	750	0.664	ug/l #	1
74) N-amyl acetate	12.03	43	30	3.079	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	43559	29.057	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	43559	79.250	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.89	180	378	0.333	ug/l #	59
94) Hexachlorobutadiene	14.99	225	125	0.280	ug/l #	20
95) Naphthalene	15.11	128	2524	4.101	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.29	180	666	0.593	ug/l #	87

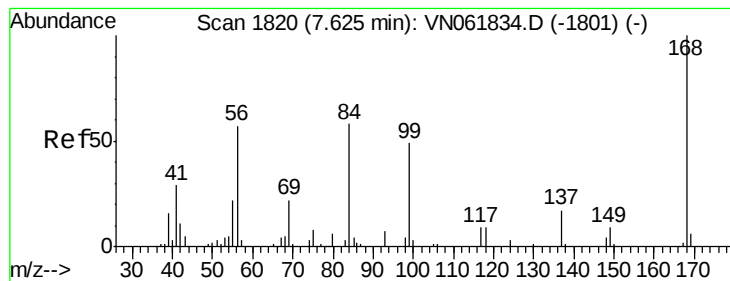
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampled :

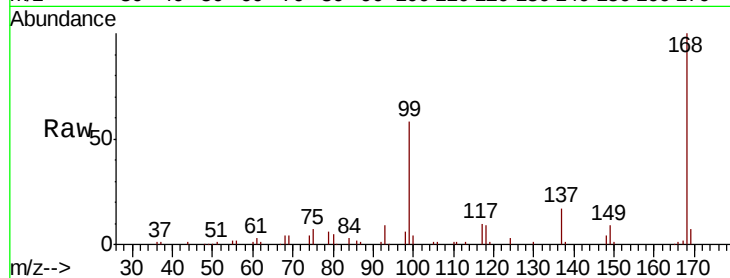
EB-20200611

Tot Ion:168 Resp: 126344

Ion Ratio Lower Upper

168 100

99 57.9 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

30000

20000

10000

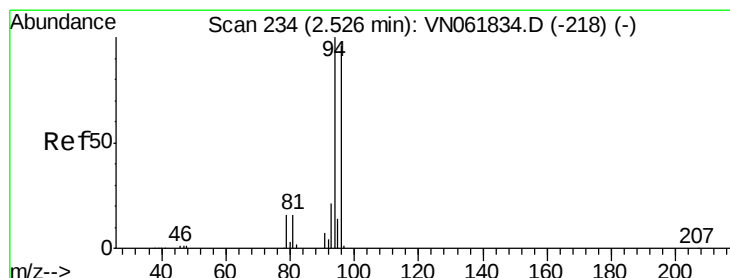
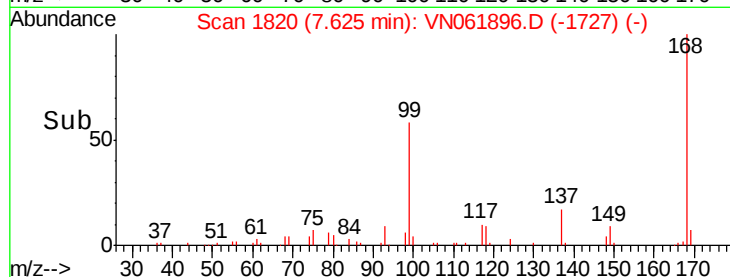
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Time-->

7.50

7.60

7.70



#5

Bromomethane

Concen: 0.272 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.02 min

Lab File: VN061896.D

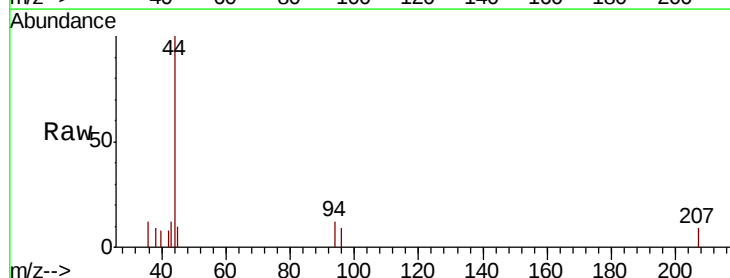
Acq: 18 Jun 2020 13:38

Tgt Ion: 94 Resp: 436

Ion Ratio Lower Upper

94 100

96 80.5 76.7 115.1



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

150

100

50

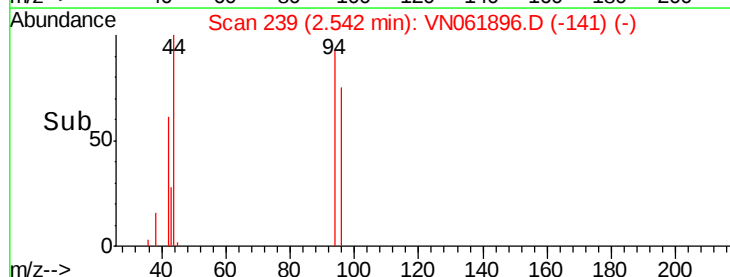
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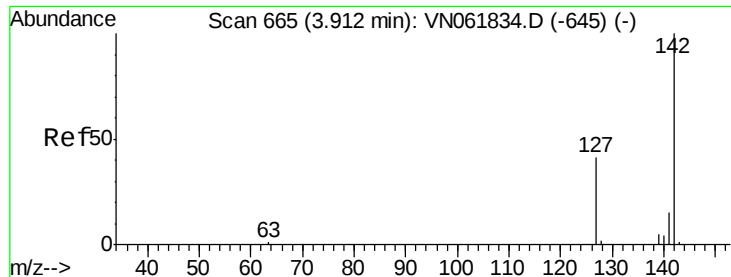
Time-->

2.52

2.54

2.56

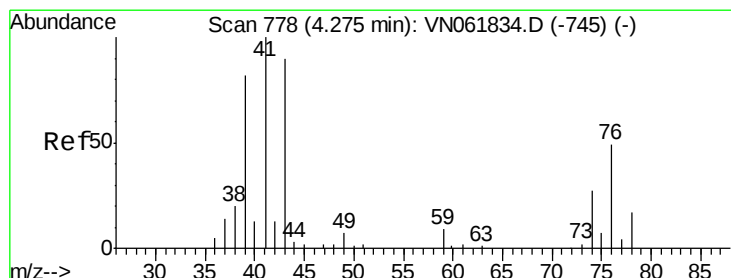
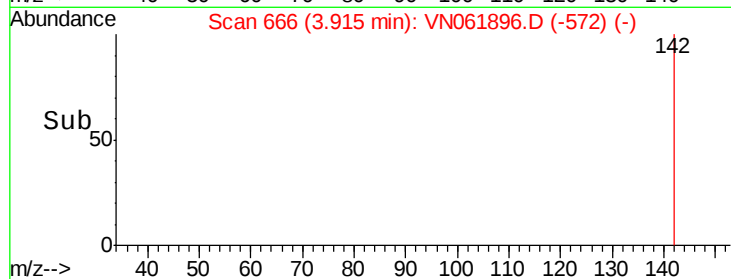
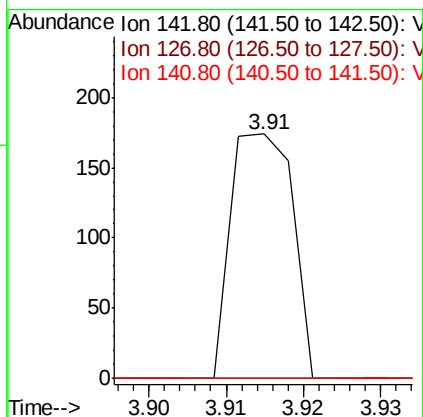
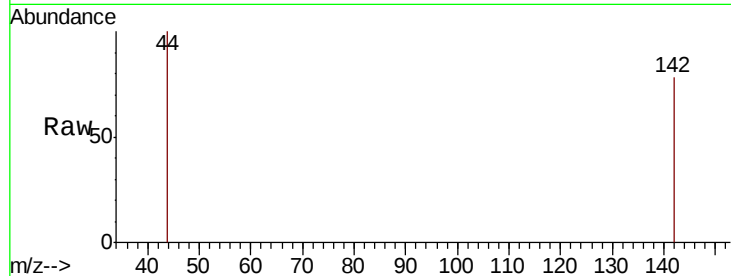




#10
Methyl Iodide
Concen: 5.375 ug/l
RT: 3.91 min Scan# 666
Delta R.T. 0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

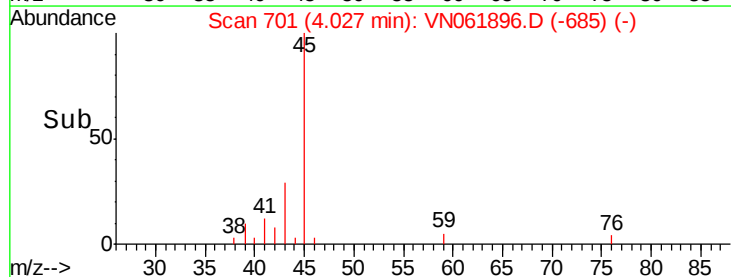
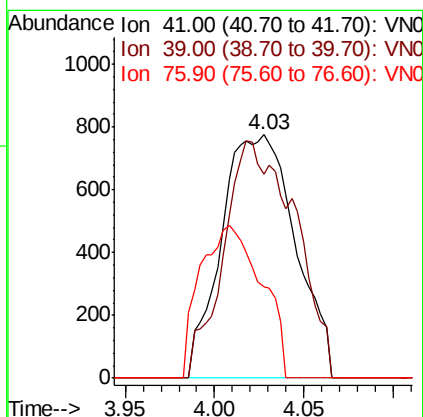
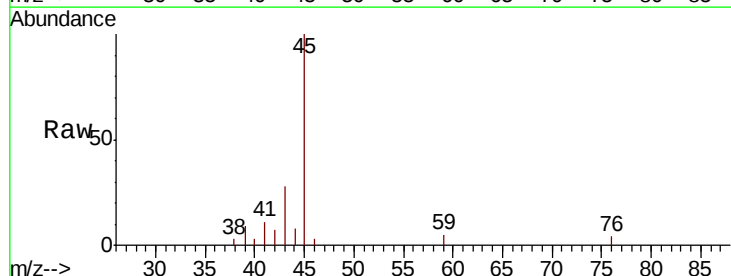
Instrument :
MSVOA_N
ClientSampled :
EB-20200611

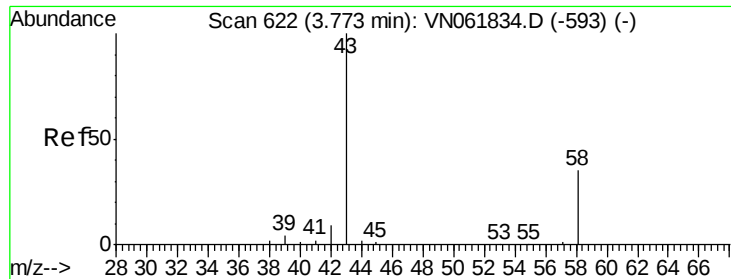
Tot Ion:142 Resp: 97
Ion Ratio Lower Upper
142 100
127 0.0 33.4 50.0#
141 0.0 11.3 16.9#



#14
Allyl chloride
Concen: 1.313 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.25 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion: 41 Resp: 2237
Ion Ratio Lower Upper
41 100
39 94.0 60.2 90.2#
76 51.7 36.3 54.5





#16

Acetone

Concen: 11.318 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampleId :

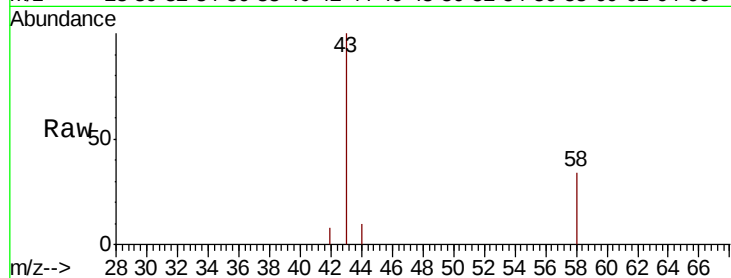
EB-20200611

Tot Ion: 43 Resp: 5665

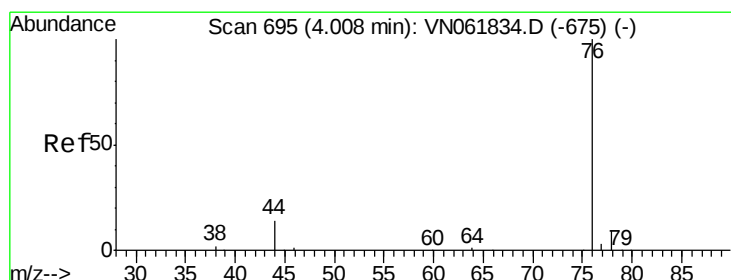
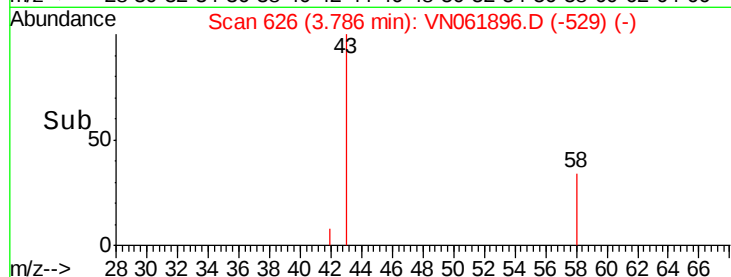
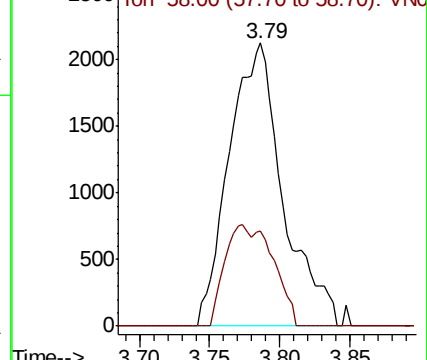
Ion Ratio Lower Upper

43 100

58 33.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)



#17

Carbon Disulfide

Concen: 0.308 ug/l

RT: 4.01 min Scan# 695

Delta R.T. -0.00 min

Lab File: VN061896.D

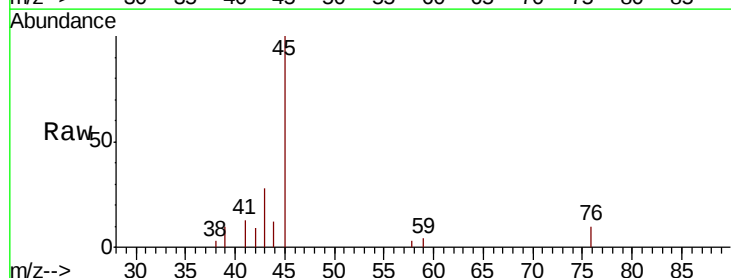
Acq: 18 Jun 2020 13:38

Tgt Ion: 76 Resp: 1156

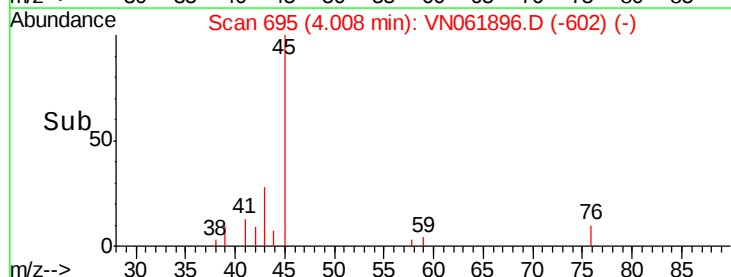
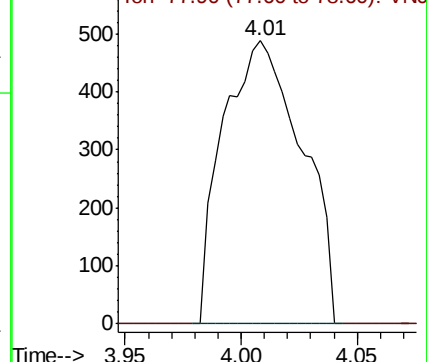
Ion Ratio Lower Upper

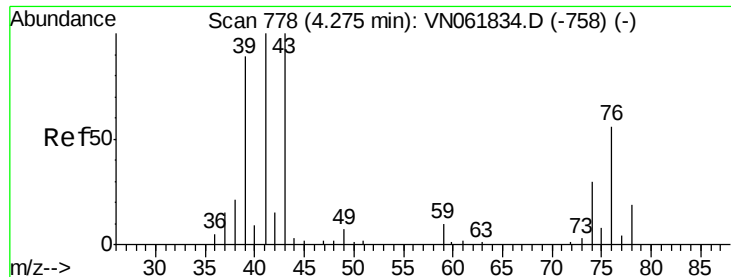
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN061834.D (-675) (-)

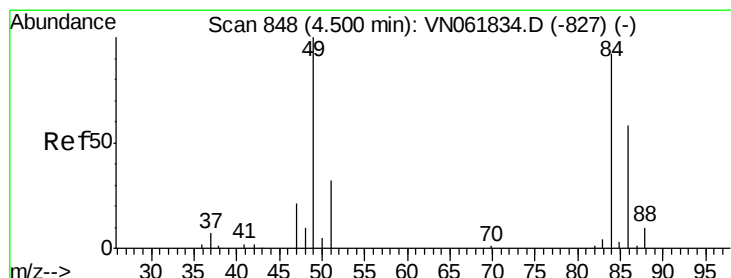
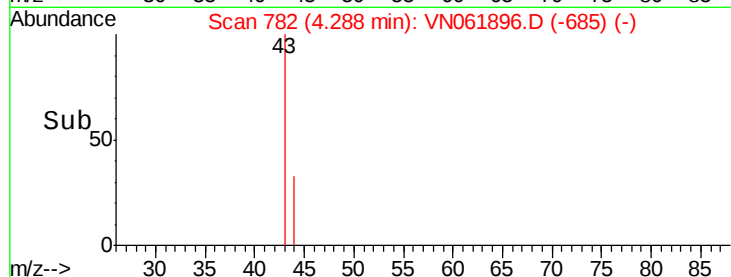
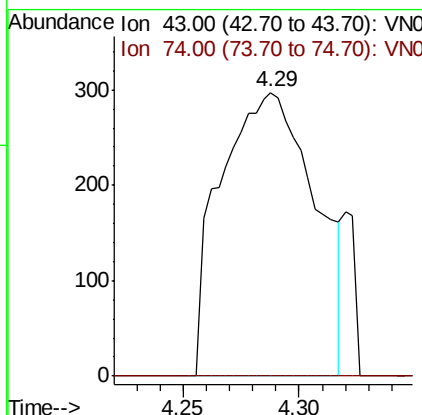
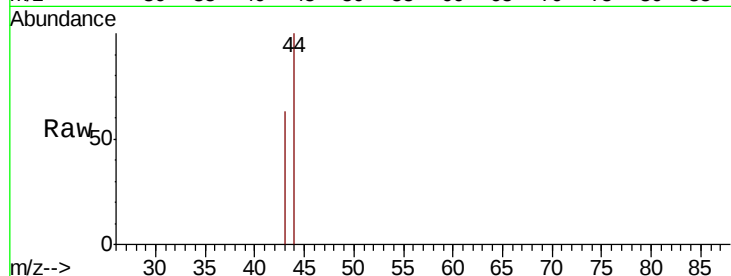




#18
Methvl Acetate
Concen: 0.580 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

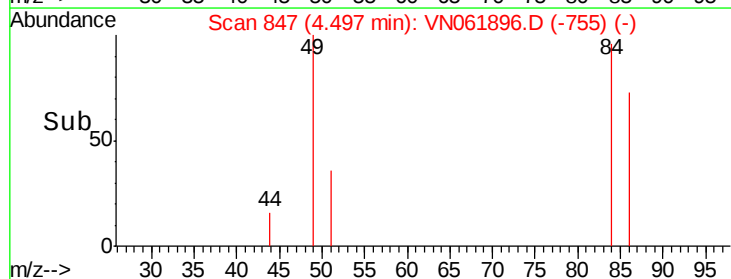
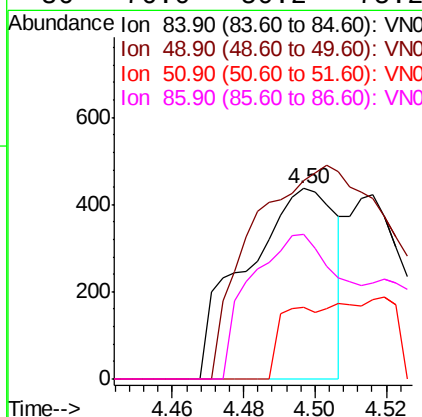
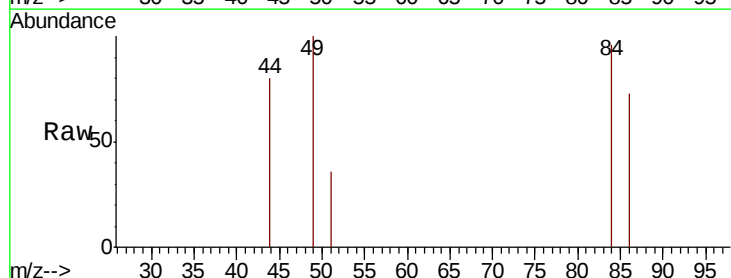
Instrument :
MSVOA_N
ClientSampled :
EB-20200611

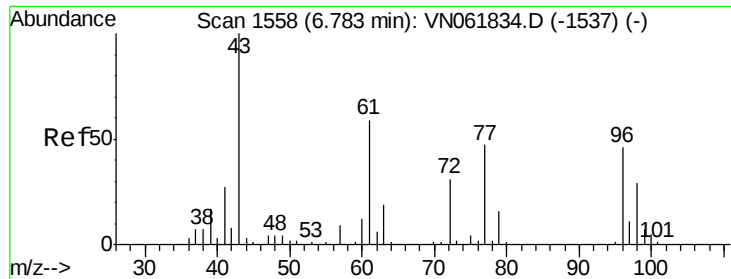
Tot Ion: 43 Resp: 836
Ion Ratio Lower Upper
43 100
74 0.0 23.0 34.4#



#20
Methylene Chloride
Concen: 0.466 ug/l
RT: 4.50 min Scan# 847
Delta R.T. -0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion: 84 Resp: 760
Ion Ratio Lower Upper
84 100
49 104.3 87.0 130.4
51 37.5 27.8 41.6
86 76.0 50.2 75.2#

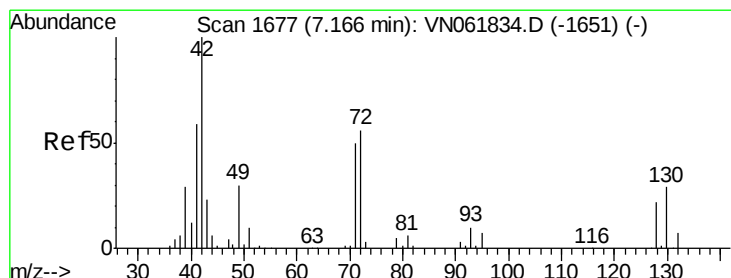
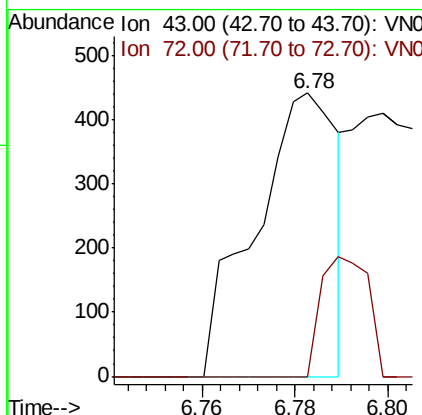
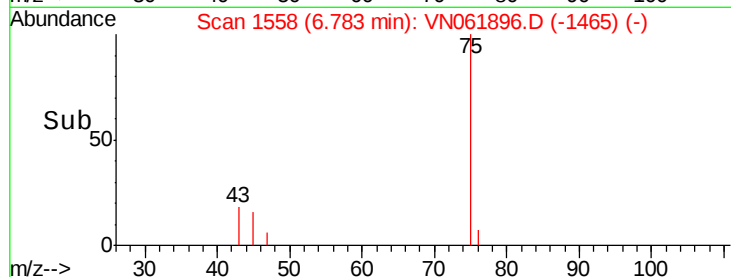
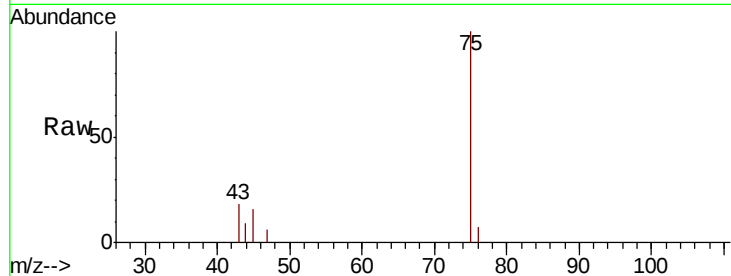




#25
2-Butanone
Concen: 0.742 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

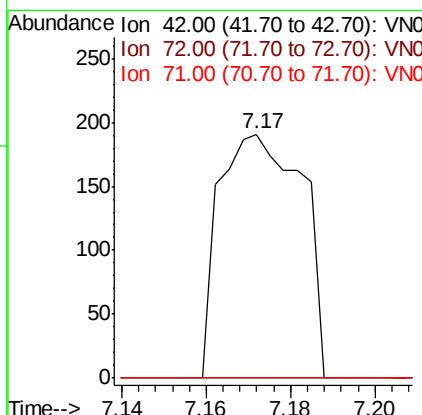
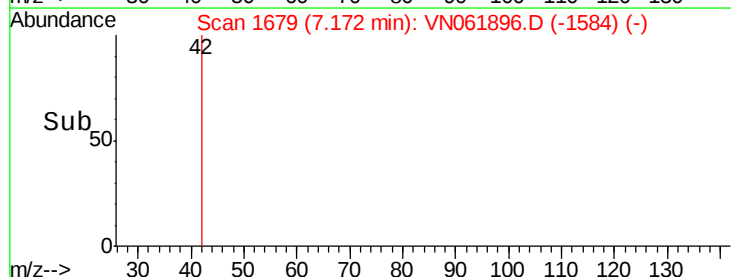
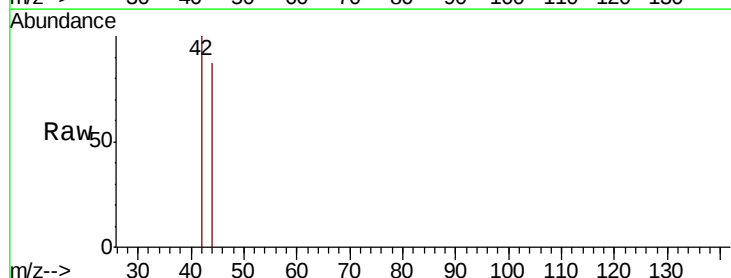
Instrument :
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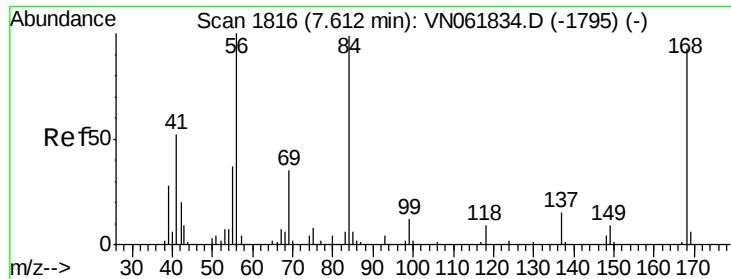
Tot Ion: 43 Resp: 542
Ion Ratio Lower Upper
43 100
72 0.0 24.6 37.0#



#29
Tetrahydrofuran
Concen: 0.541 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion: 42 Resp: 260
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

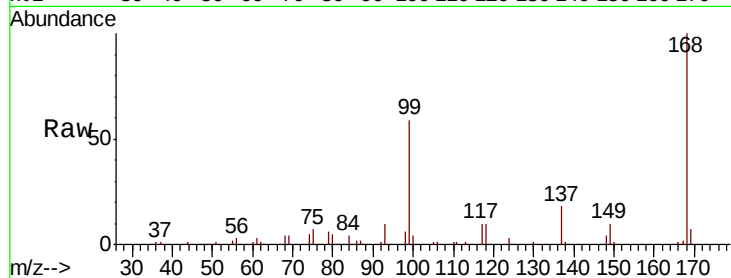




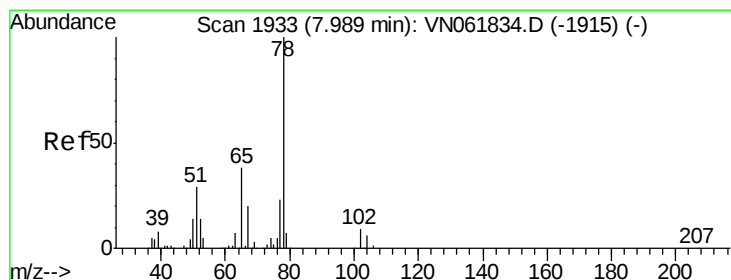
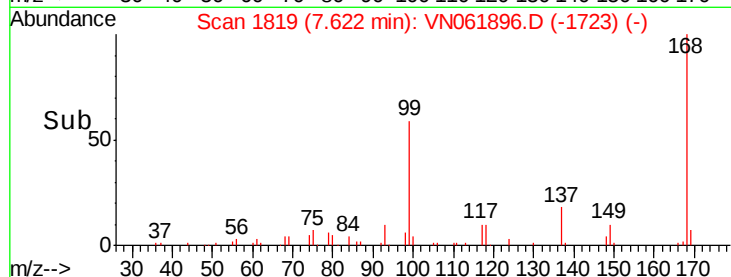
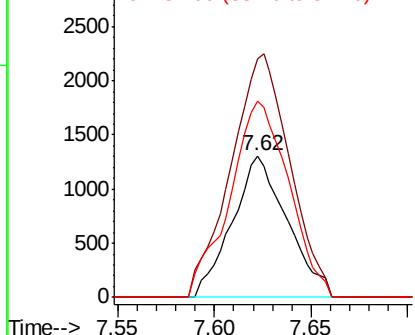
#31
Cyclohexane
Concen: 1.155 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Instrument :
MSVOA_N
ClientSampleId :
EB-20200611

Tot Ion: 56 Resp: 2579
Ion Ratio Lower Upper
56 100
69 168.7 27.7 41.5#
84 138.5 79.1 118.7#

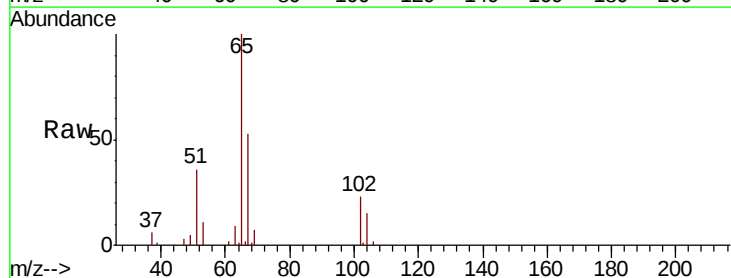


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

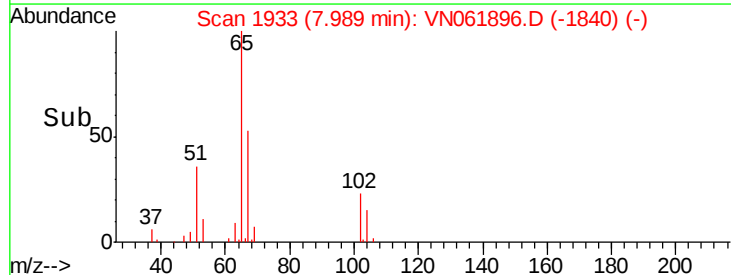
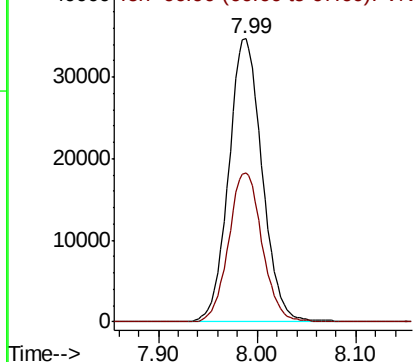


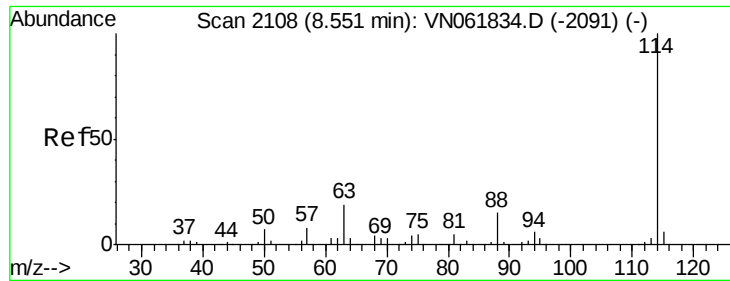
#33
1,2-Dichloroethane-d4
Concen: 48.330 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion: 65 Resp: 81894
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

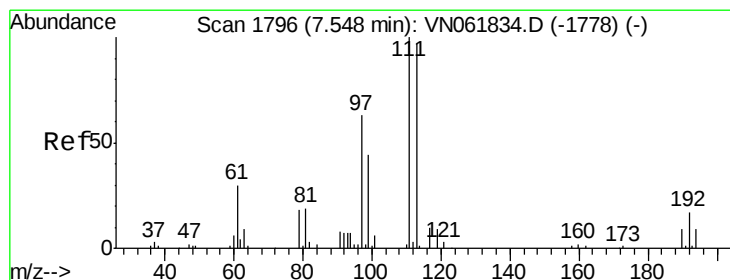
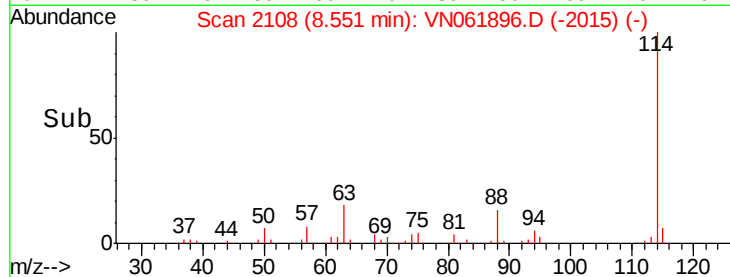
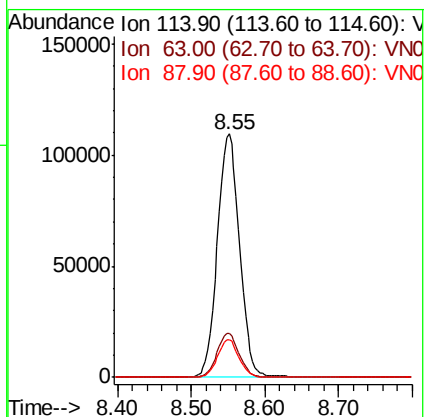
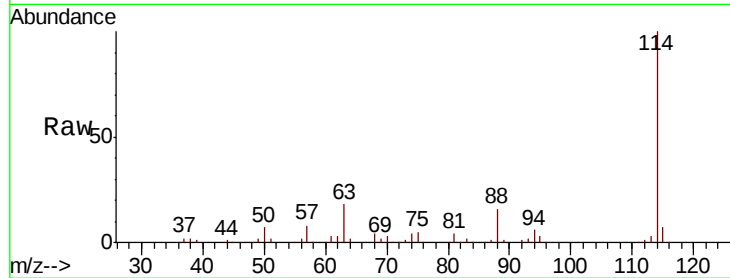




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061896.D
 Acq: 18 Jun 2020 13:38

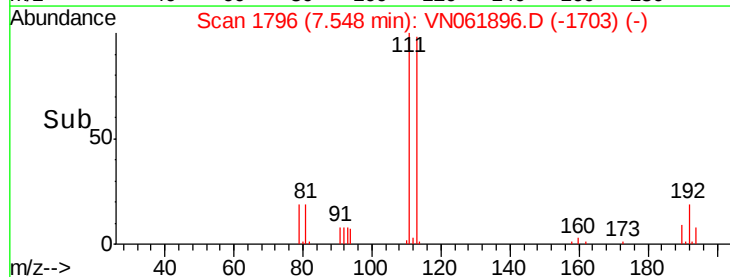
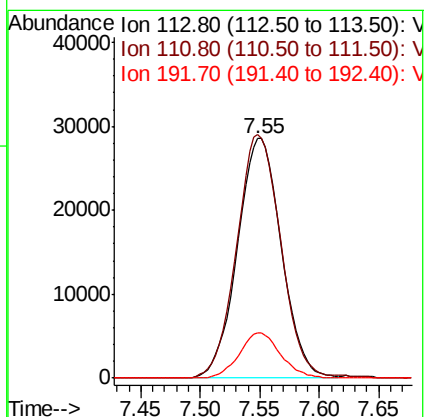
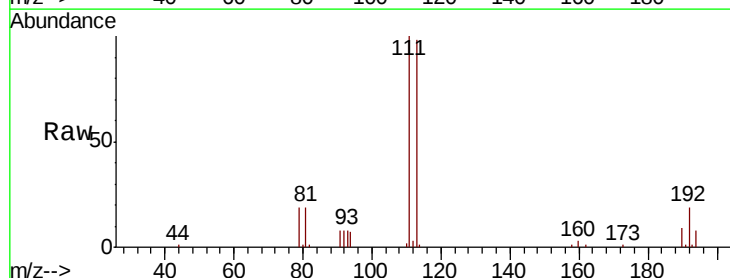
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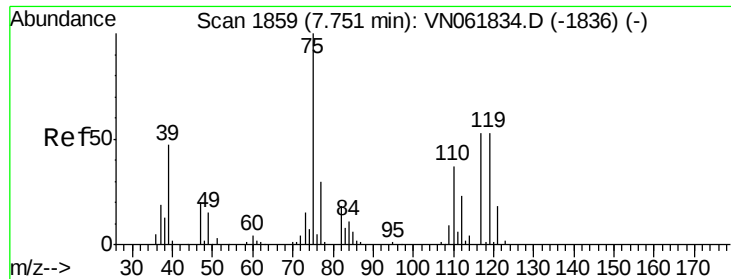
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	37.6
88	15.6	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 49.813 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061896.D
 Acq: 18 Jun 2020 13:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.7	125.5
192	17.8	13.9	20.9





#36

1,1-Dichloropropene

Concen: 4.624 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampleId :

EB-20200611

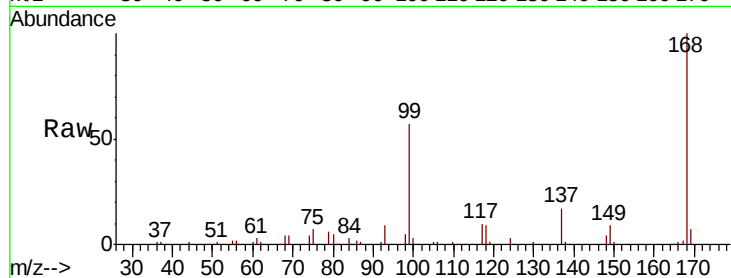
Tot Ion: 75 Resp: 9637

Ion Ratio Lower Upper

75 100

110 6.5 18.2 54.6#

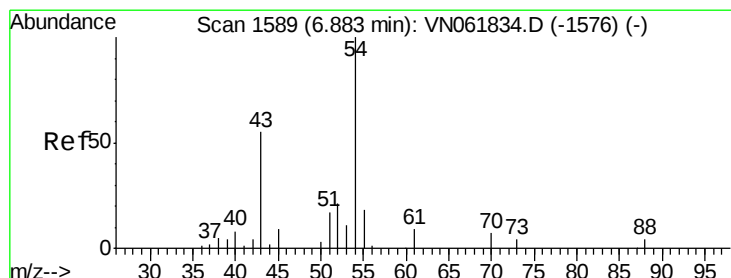
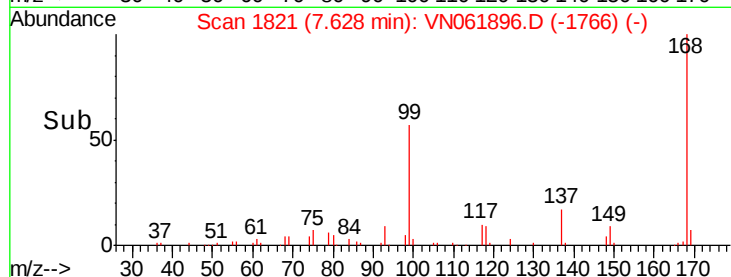
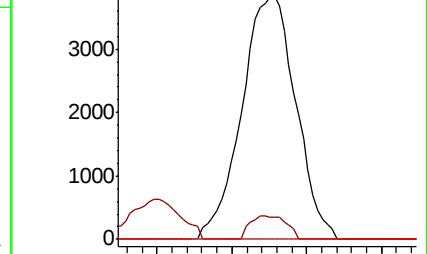
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.333 ug/l

RT: 6.78 min Scan# 1558

Delta R.T. -0.10 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

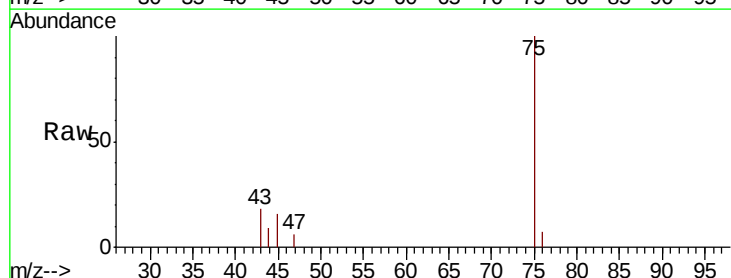
Tgt Ion: 43 Resp: 542

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

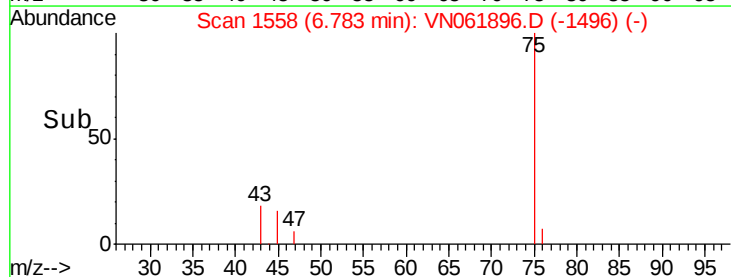
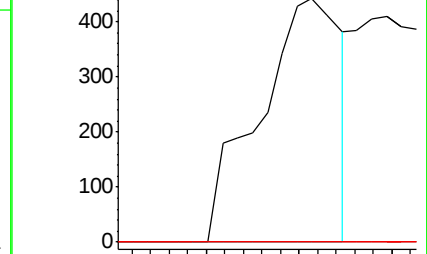
70 0.0 9.4 14.2#

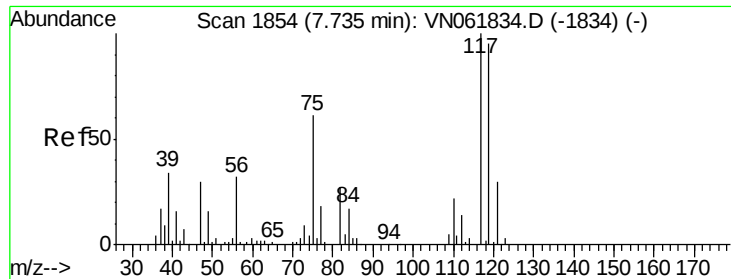


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 6.077 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampleId :

EB-20200611

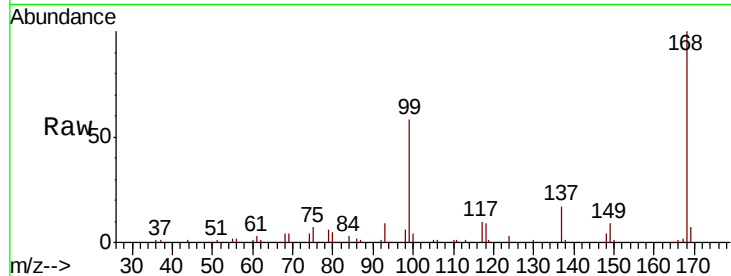
Tot Ion:117 Resp: 12541

Ion Ratio Lower Upper

117 100

119 5.1 75.8 113.6#

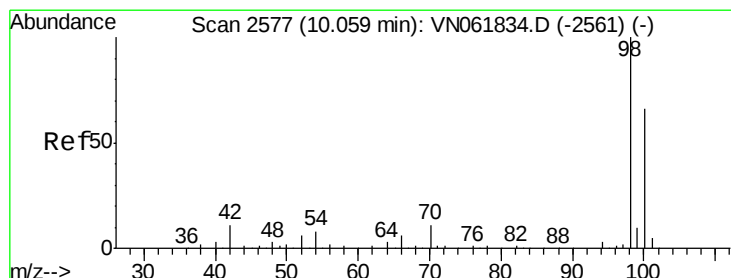
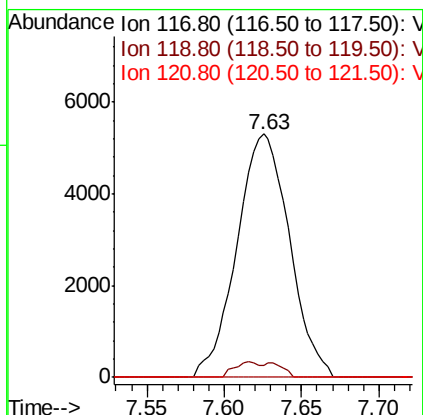
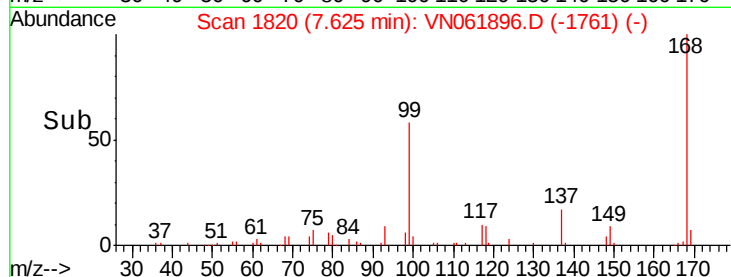
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.384 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061896.D

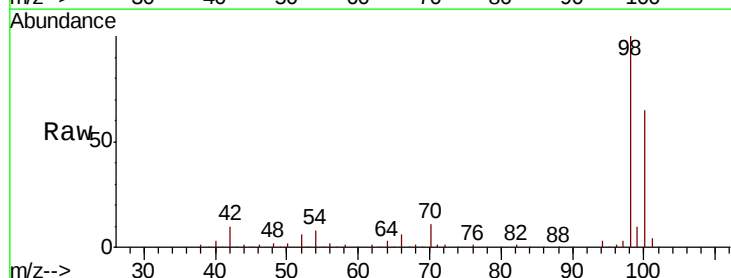
Acq: 18 Jun 2020 13:38

Tgt Ion: 98 Resp: 278050

Ion Ratio Lower Upper

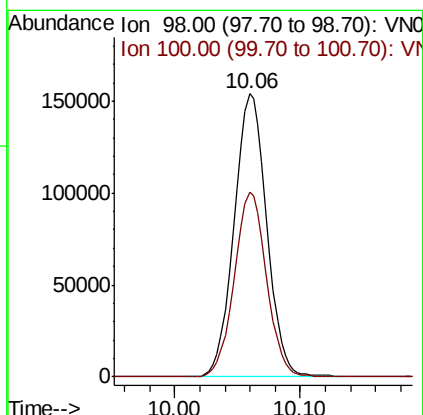
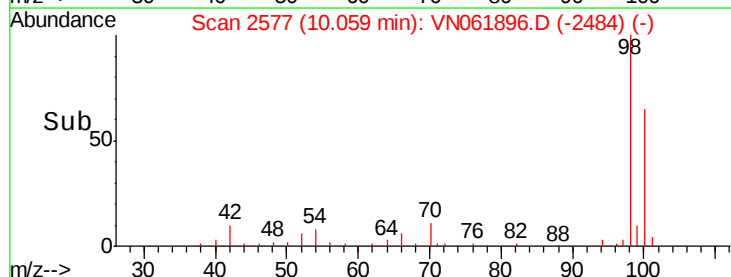
98 100

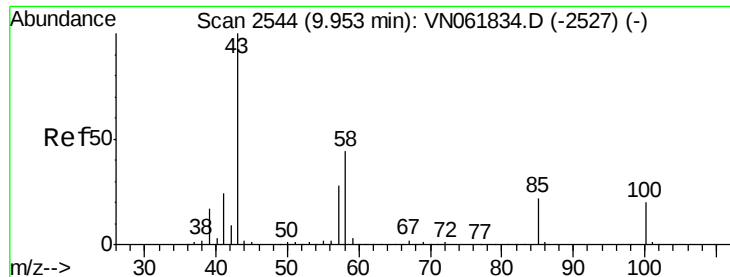
100 64.3 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.666 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampled :

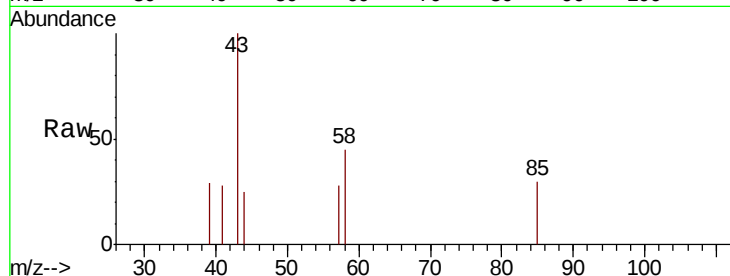
EB-20200611

Tot Ion: 43 Resp: 1080

Ion Ratio Lower Upper

43 100

58 40.3 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

9.95

600

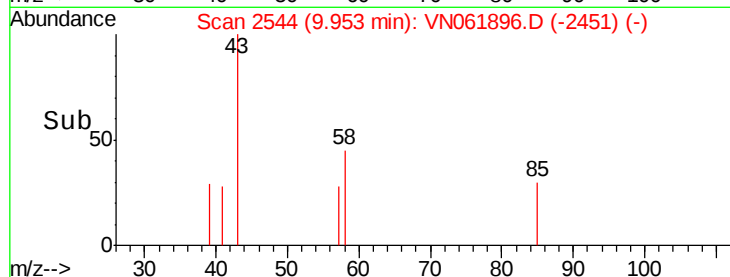
400

200

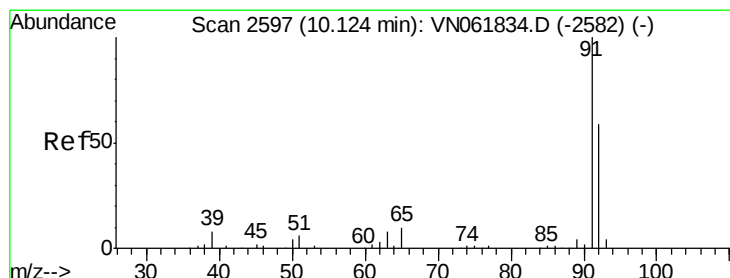
0

9.95

10.00



Time-->



#52

Toluene

Concen: 7.530 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN061896.D

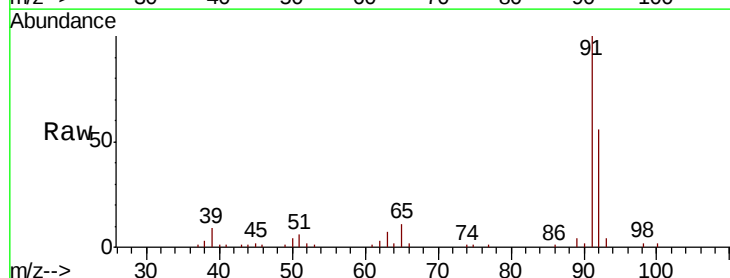
Acq: 18 Jun 2020 13:38

Tgt Ion: 92 Resp: 29854

Ion Ratio Lower Upper

92 100

91 176.7 137.1 205.7



Abundance Ion 92.00 (91.70 to 92.70): VN061834.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN061834.D (-2582) (-)

10.13

30000

20000

10000

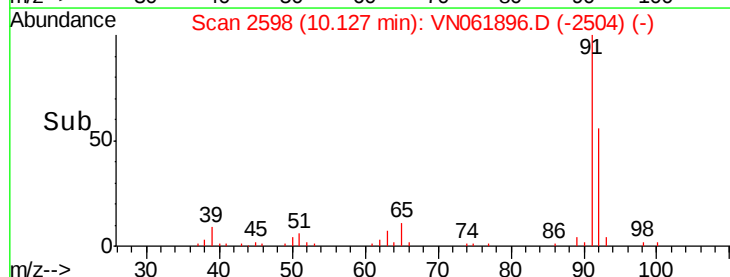
0

10.05

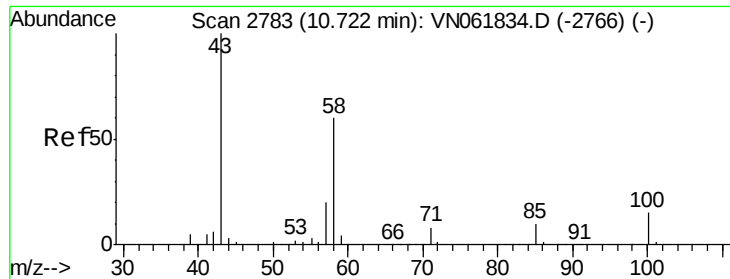
10.10

10.15

10.20



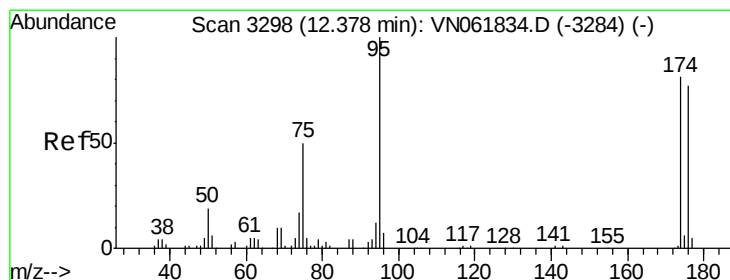
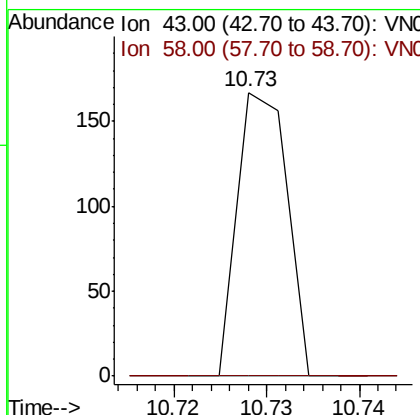
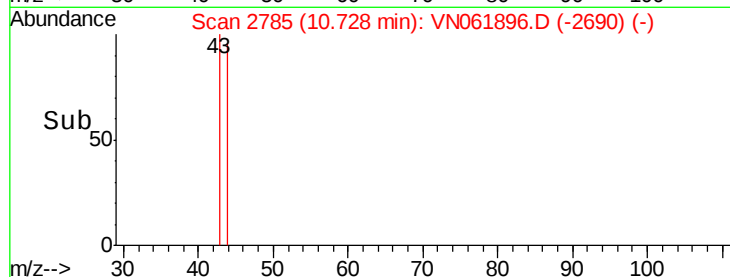
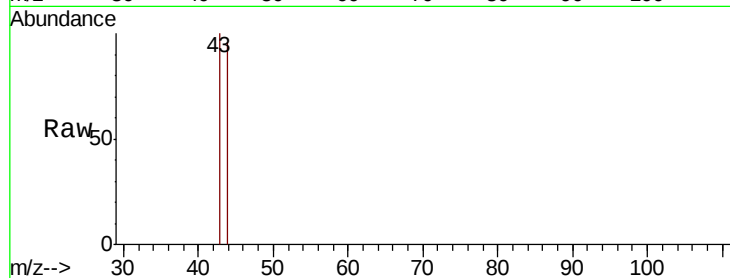
Time-->



#59
2-Hexanone
Concen: 13.452 ug/l
RT: 10.73 min Scan# 2785
Delta R.T. 0.01 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

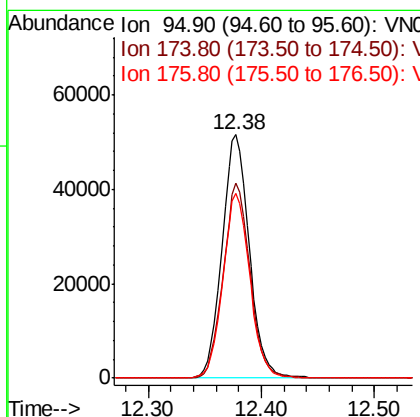
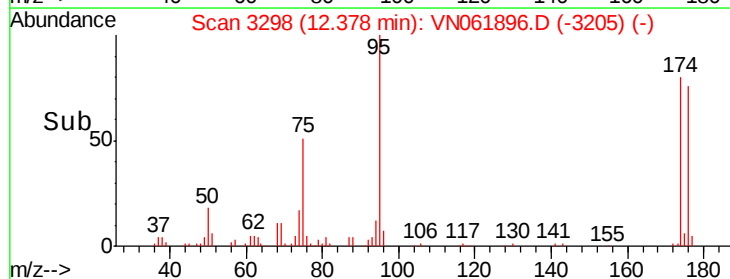
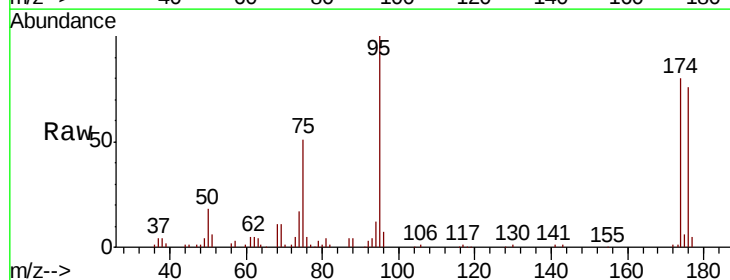
Instrument :
MSVOA_N
ClientSampleId :
EB-20200611

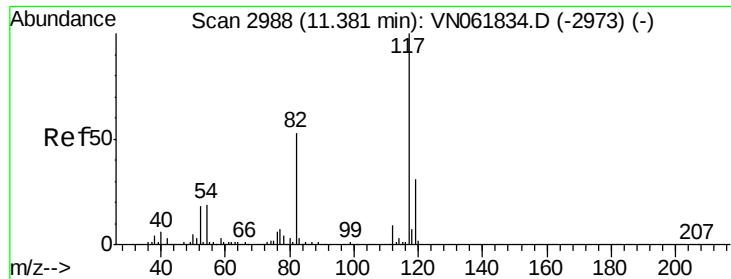
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 43.931 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion: 95 Resp: 86598
Ion Ratio Lower Upper
95 100
174 78.8 0.0 158.6
176 74.8 0.0 152.0

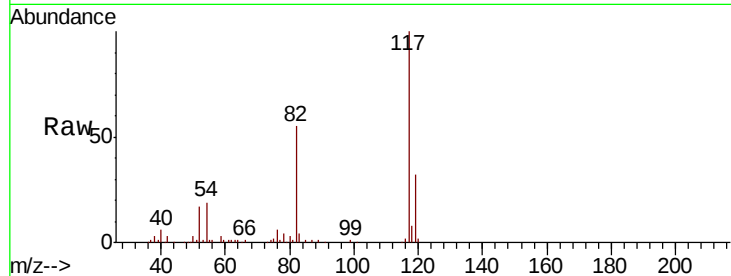




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Instrument :
MSVOA_N
ClientSampleId :
EB-20200611

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.0	42.6	64.0
119	32.4	24.7	37.1

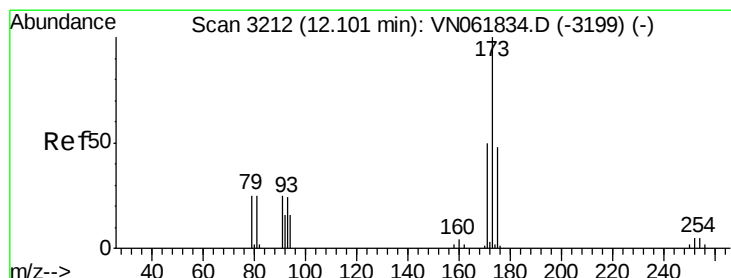
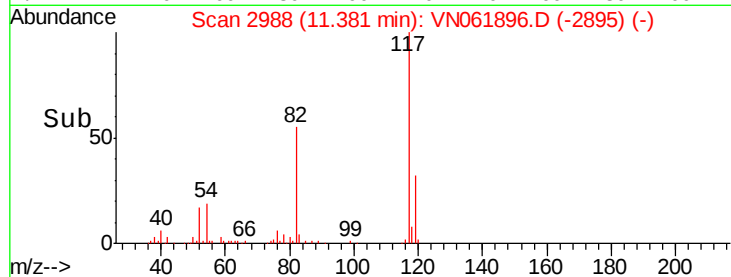
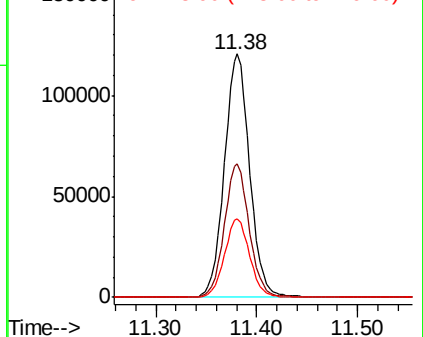


Abundance

Ion 116.90 (116.60 to 117.60): V

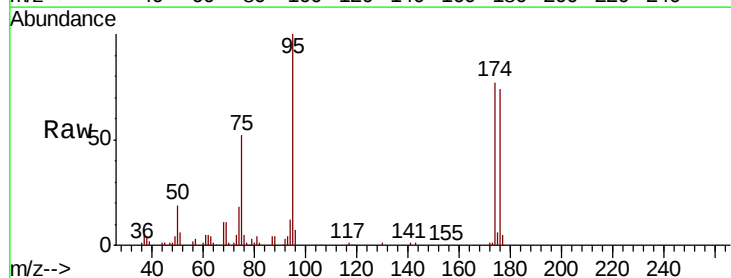
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71
Bromoform
Concen: 0.664 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion	Ratio	Lower	Upper
173	100		
175	578.7	23.9	71.7#
254	0.0	0.0	0.0

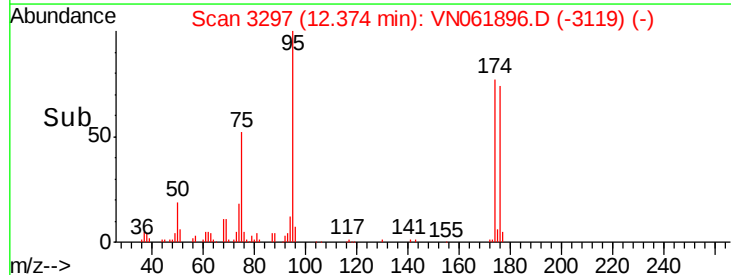
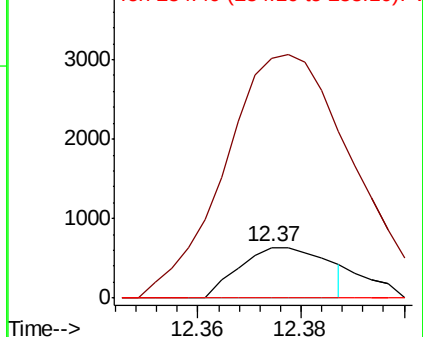


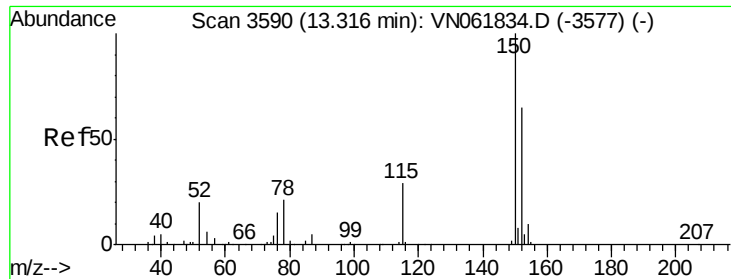
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampleId :

EB-20200611

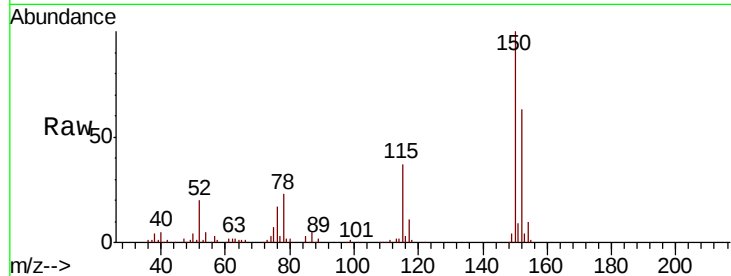
Tot Ion:152 Resp: 76358

Ion Ratio Lower Upper

152 100

115 58.5 29.1 87.3

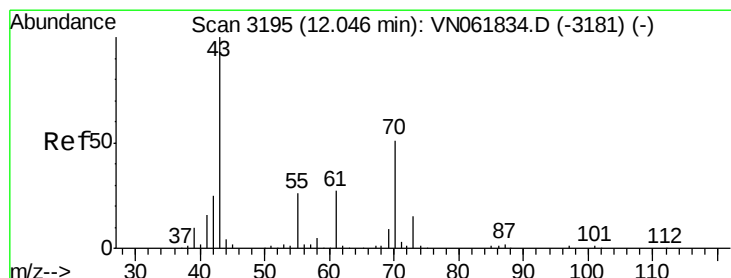
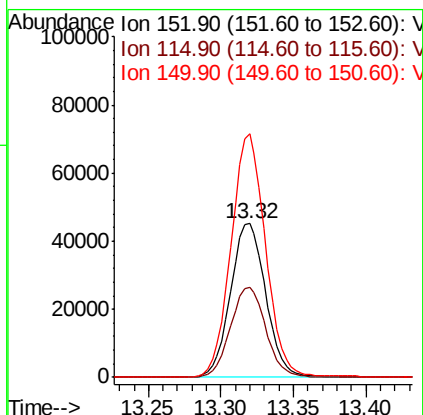
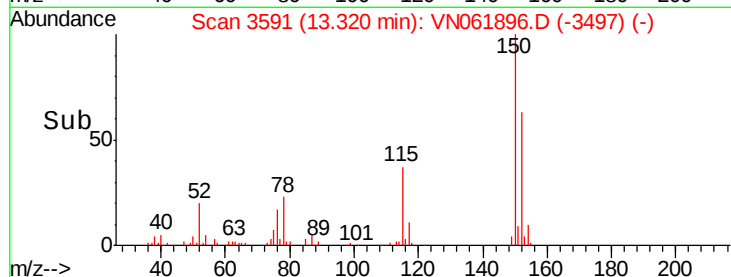
150 154.5 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 3.079 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.01 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Tgt Ion: 43 Resp: 30

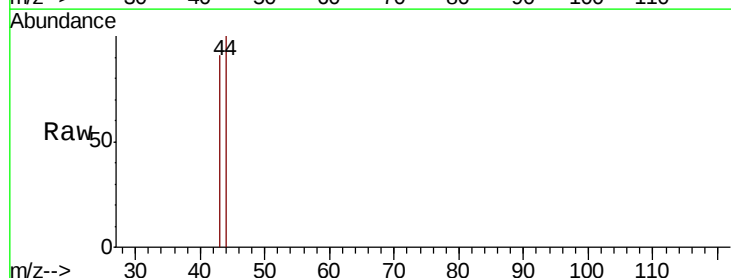
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

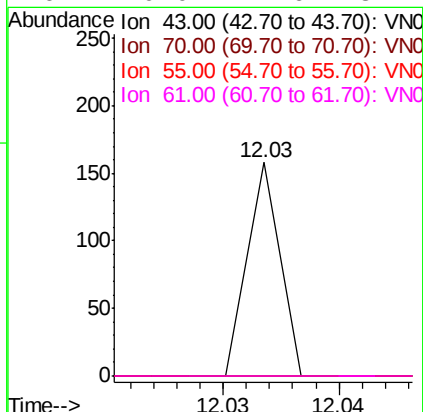
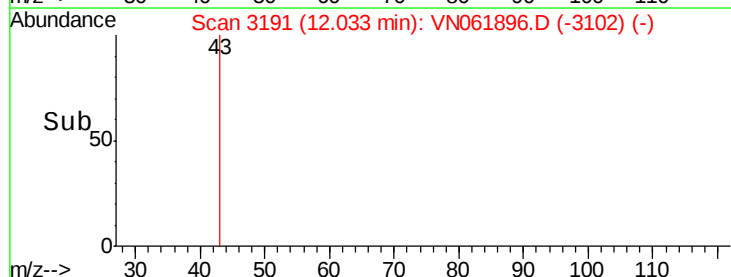


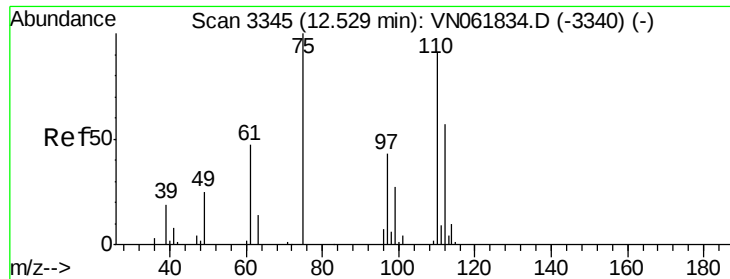
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.057 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

Instrument :

MSVOA_N

ClientSampled :

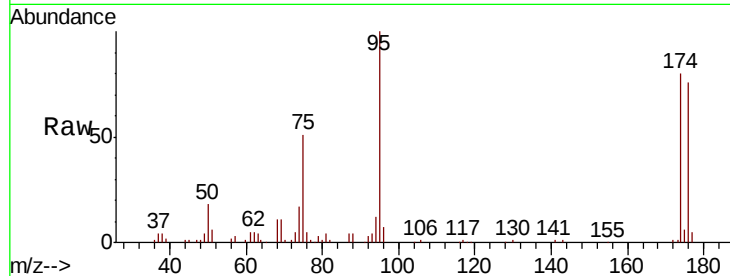
EB-20200611

Tot Ion: 75 Resp: 43559

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061896.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN061896.D (-3252) (-)

12.38

25000

20000

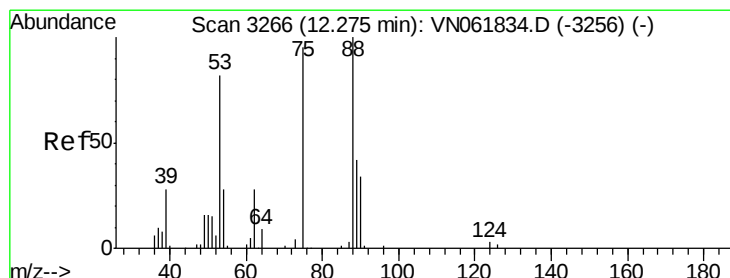
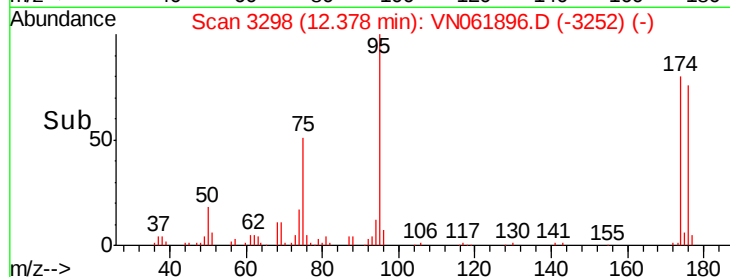
15000

10000

5000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 79.250 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061896.D

Acq: 18 Jun 2020 13:38

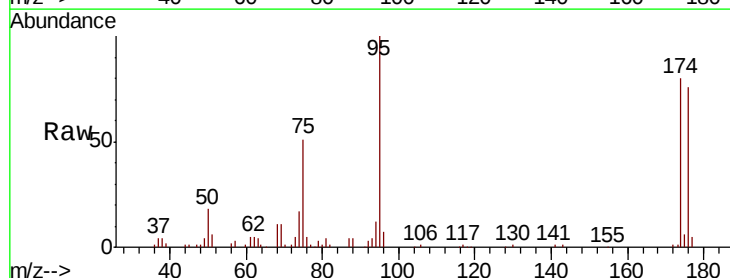
Tgt Ion: 75 Resp: 43559

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061896.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN061896.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN061896.D (-3173) (-)

12.38

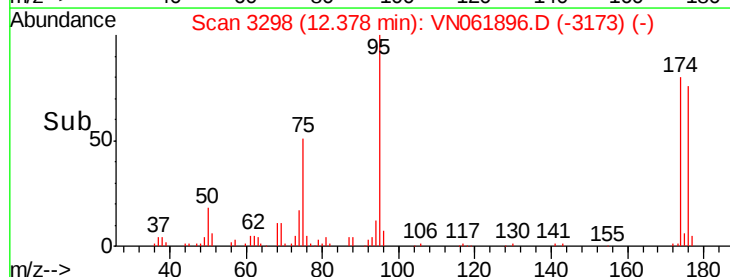
30000

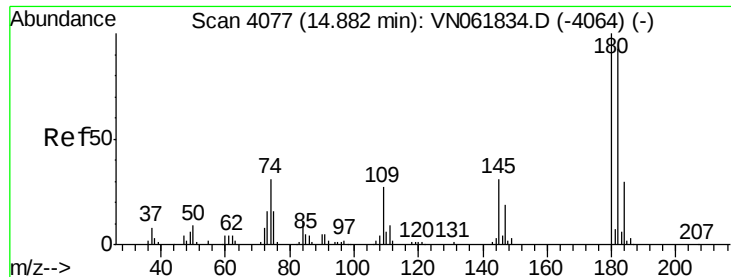
20000

10000

0

Time--> 12.30 12.35 12.40 12.45

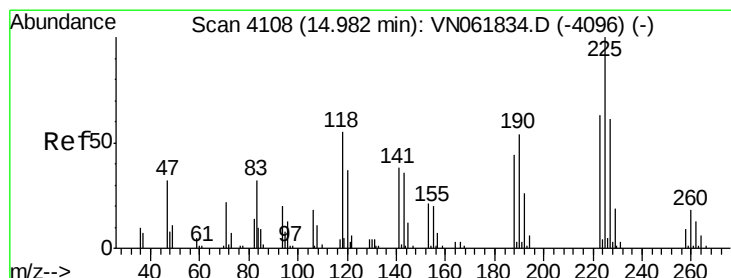
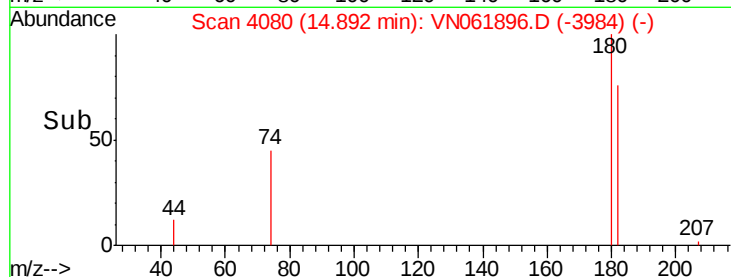
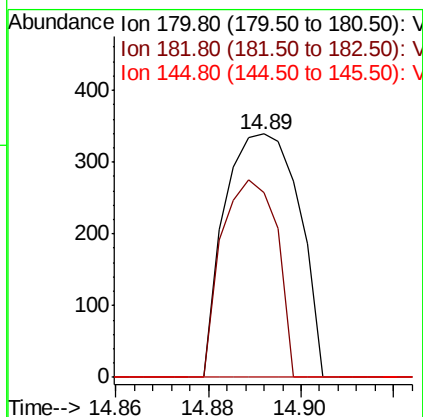
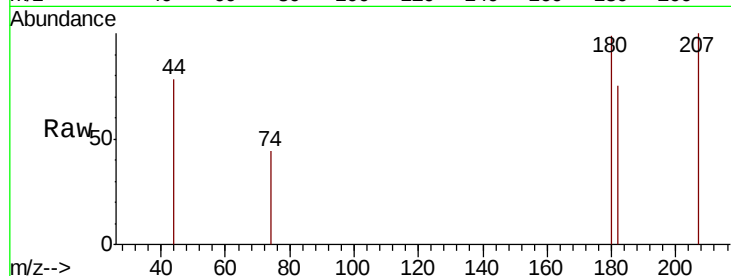




#93
 1,2,4-Trichlorobenzene
 Concen: 0.333 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. 0.01 min
 Lab File: VN061896.D
 Acq: 18 Jun 2020 13:38

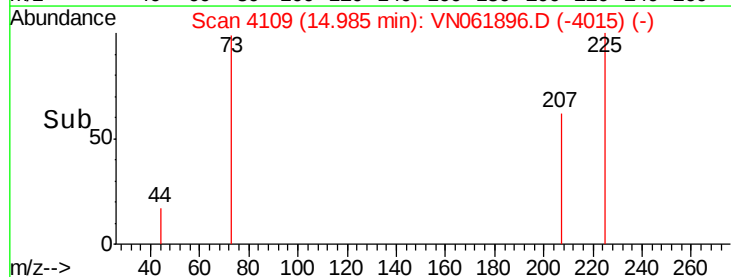
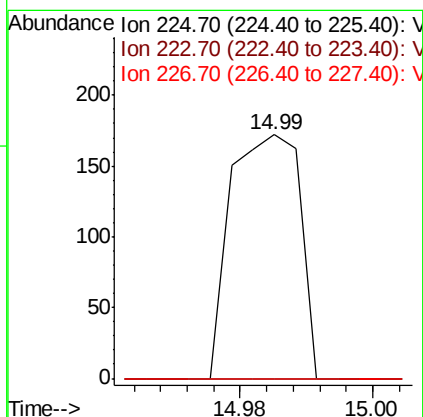
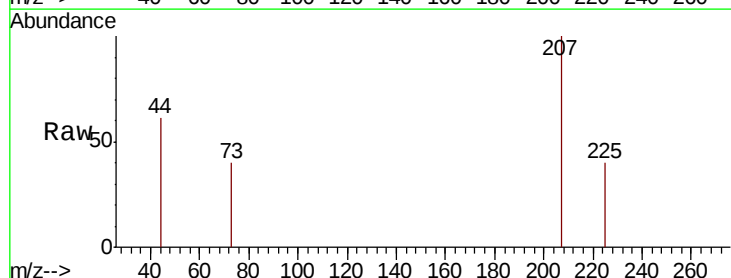
Instrument :
 MSVOA_N
 ClientSampled :
 EB-20200611

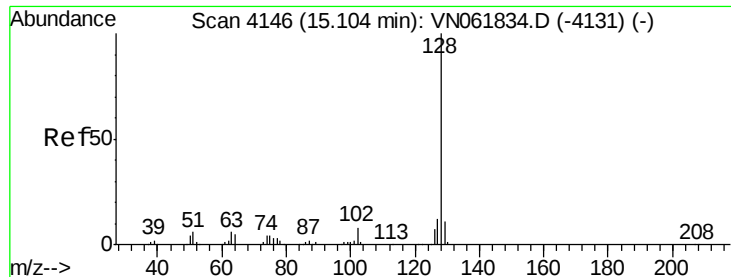
Tot Ion:180 Resp: 378
 Ion Ratio Lower Upper
 180 100
 182 60.1 47.0 141.2
 145 0.0 15.8 47.3#



#94
 Hexachlorobutadiene
 Concen: 0.280 ug/l
 RT: 14.99 min Scan# 4109
 Delta R.T. 0.00 min
 Lab File: VN061896.D
 Acq: 18 Jun 2020 13:38

Tgt Ion:225 Resp: 125
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.7 95.1#
 227 0.0 30.1 90.3#

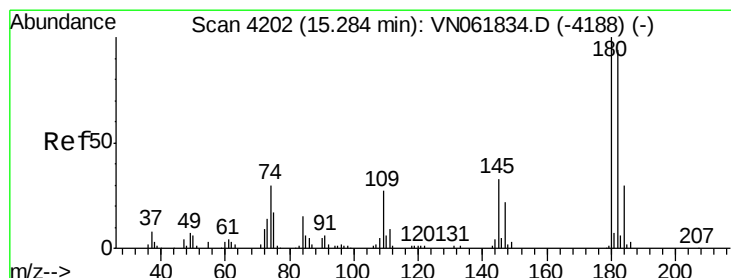
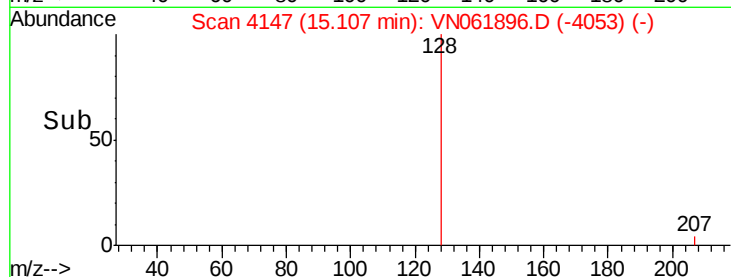
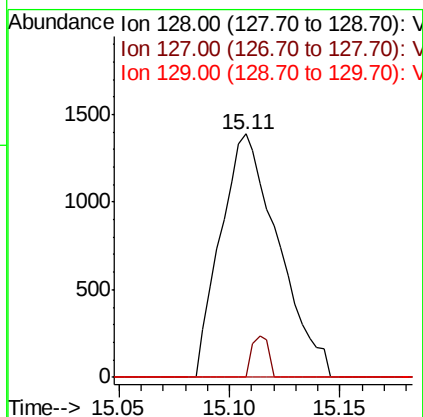
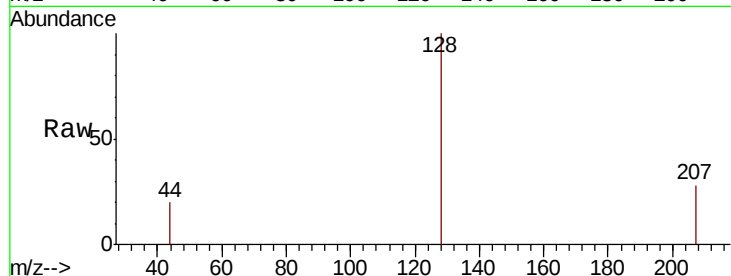




#95
Naphthalene
Concen: 4.101 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Instrument :
MSVOA_N
ClientSampled :
EB-20200611

Tot Ion:128 Resp: 2524
Ion Ratio Lower Upper
128 100
127 4.9 10.3 15.5#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.593 ug/l
RT: 15.29 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061896.D
Acq: 18 Jun 2020 13:38

Tgt Ion:180 Resp: 666
Ion Ratio Lower Upper
180 100
182 95.6 47.9 143.6
145 4.8 16.5 49.5#

