

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120720\
 Data File : VN064941.D
 Acq On : 7 Dec 2020 13:35
 Operator : JC/MD
 Sample : L4954-05RE
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 15 04:05:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 10 14:02:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	181221	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	321745	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	343975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159786	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	109183	51.82	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	103.64%
35) Dibromofluoromethane	7.55	113	100941	52.43	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.86%
50) Toluene-d8	10.06	98	402798	51.21	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.42%
62) 4-Bromofluorobenzene	12.38	95	165179	58.67	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	117.34%

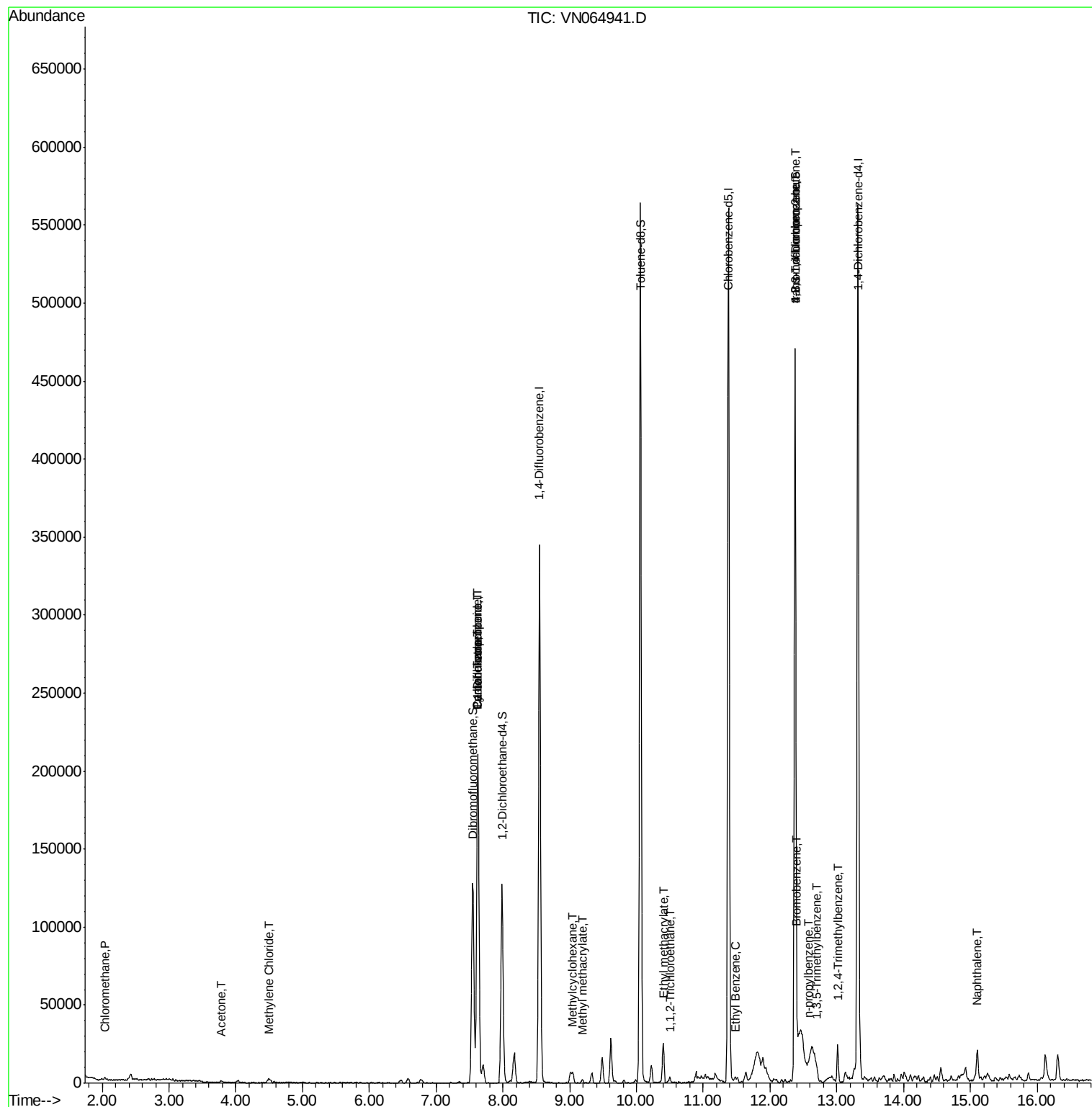
Target Compounds

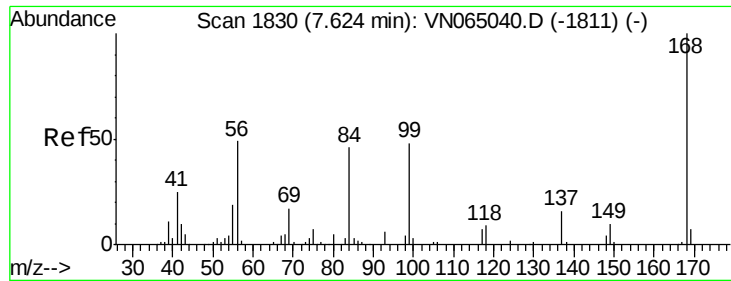
					Qvalue	
3) Chloromethane	2.04	50	1423	0.697	ug/l	92
16) Acetone	3.77	43	946	1.366	ug/l	95
20) Methylene Chloride	4.51	84	1623	0.748	ug/l #	82
31) Cyclohexane	7.62	56	5187	1.766	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	12481	4.185	ug/l #	49
38) Carbon Tetrachloride	7.63	117	16399	5.285	ug/l #	16
39) Methylcyclohexane	9.03	83	3029	0.943	ug/l #	88
48) Methyl methacrylate	9.18	41	647	0.293	ug/l #	12
55) 1,1,2-Trichloroethane	10.50	97	1233	0.533	ug/l #	14
56) Ethyl methacrylate	10.40	69	2924	0.916	ug/l #	22
67) Ethyl Benzene	11.48	91	2658	0.215	ug/l	93
76) 1,2,3-Trichloropropane	12.38	75	81238	23.608	ug/l #	100
77) Bromobenzene	12.41	156	17116	5.712	ug/l #	1
78) n-propylbenzene	12.57	91	2794	0.221	ug/l	90
80) 1,3,5-Trimethylbenzene	12.70	105	2007	0.217	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	81238	64.704	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.01	105	14194	1.520	ug/l	97
95) Naphthalene	15.10	128	21344	2.203	ug/l	98

(#) = 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# 1831

Delta R.T. 0.00 min

Lab File: VN064941.D

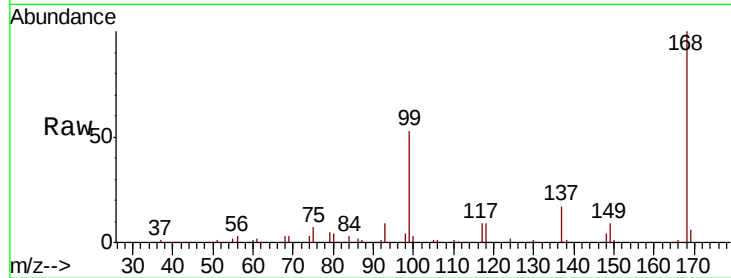
Acq: 7 Dec 2020 13:35

Tot Ion:168 Resp: 181221

Ion Ratio Lower Upper

168 100

99 52.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN065040.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN065040.D (-1811) (-)

7.63

80000

60000

40000

20000

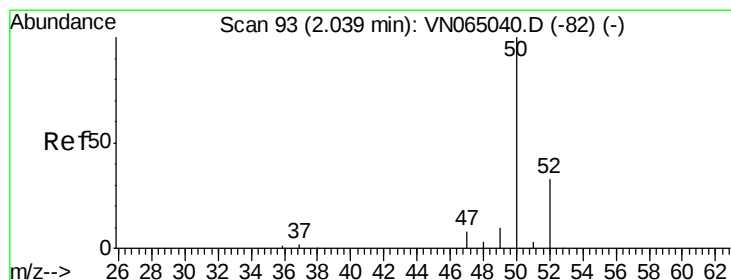
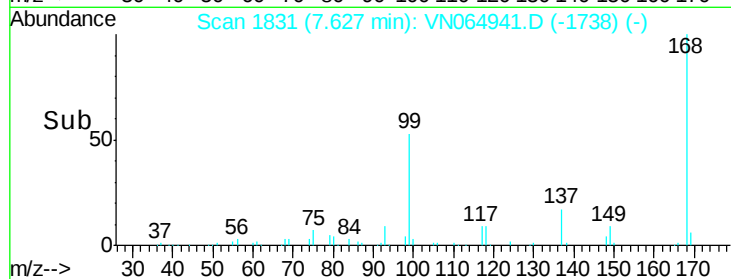
0

Time-->

7.50

7.60

7.70



#3

Chloromethane

Concen: 0.697 ug/l

RT: 2.04 min Scan# 92

Delta R.T. -0.00 min

Lab File: VN064941.D

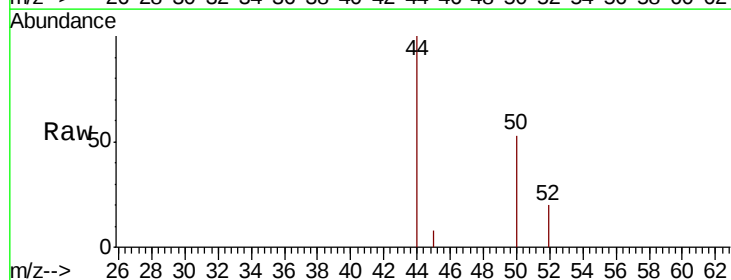
Acq: 7 Dec 2020 13:35

Tgt Ion: 50 Resp: 1423

Ion Ratio Lower Upper

50 100

52 37.9 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VN065040.D (-82) (-)

Ion 51.90 (51.60 to 52.60): VN065040.D (-82) (-)

2.04

1200

1000

800

600

400

200

0

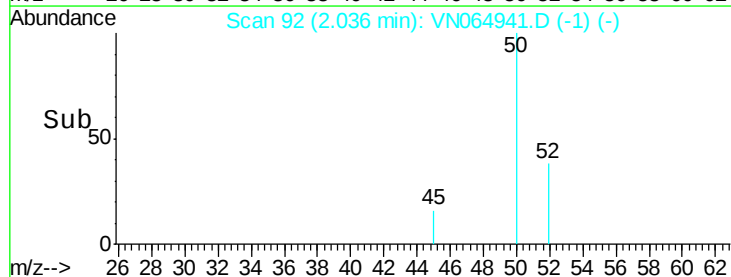
Time-->

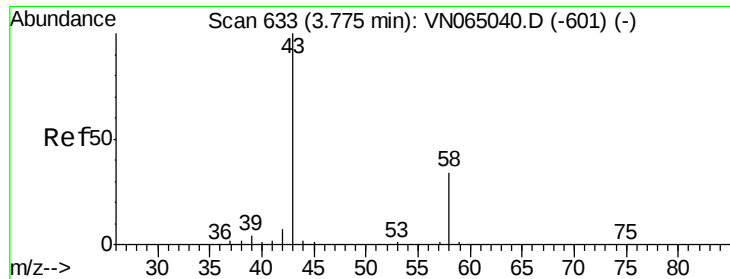
2.00

2.02

2.04

2.06





#16

Acetone

Concen: 1.366 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN064941.D

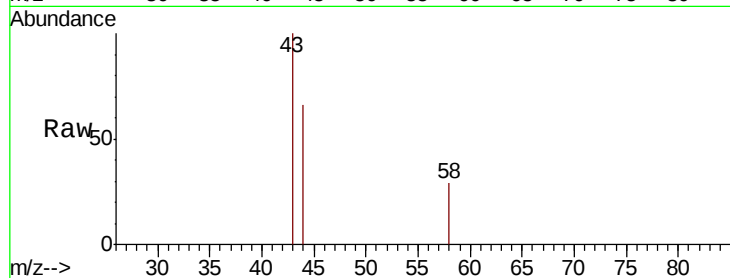
Acq: 7 Dec 2020 13:35

Tot Ion: 43 Resp: 946

Ion Ratio Lower Upper

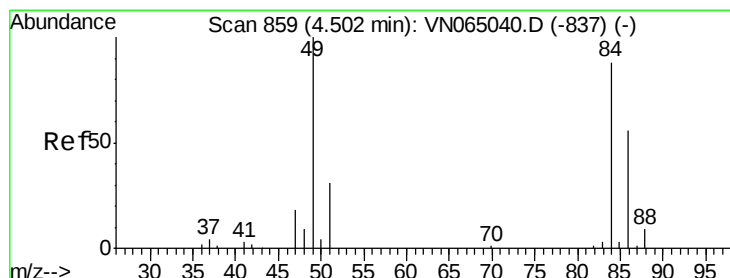
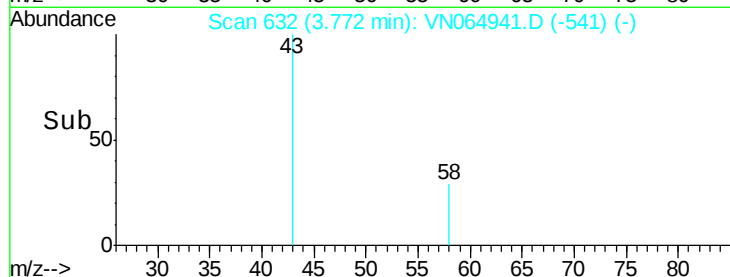
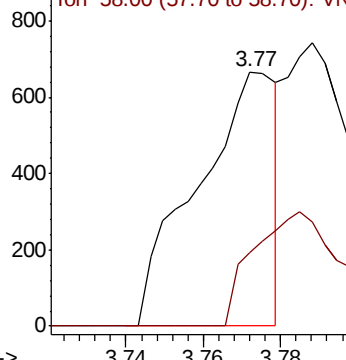
43 100

58 29.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.748 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

Tgt Ion: 84 Resp: 1623

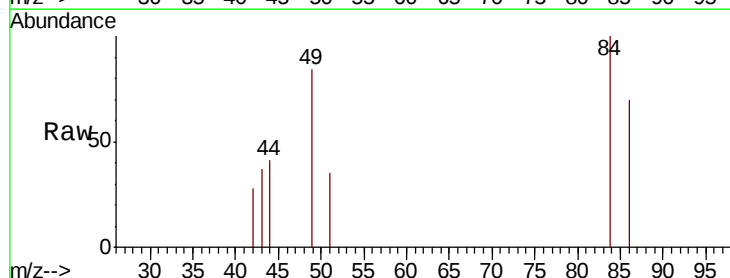
Ion Ratio Lower Upper

84 100

49 84.4 93.4 140.0#

51 34.7 28.2 42.4

86 70.0 51.7 77.5

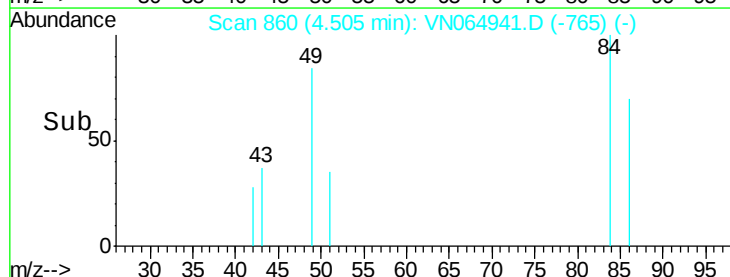
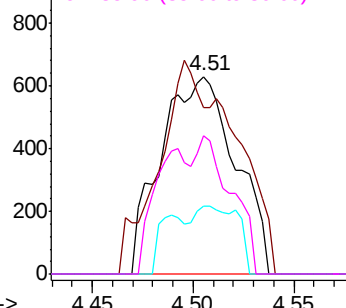


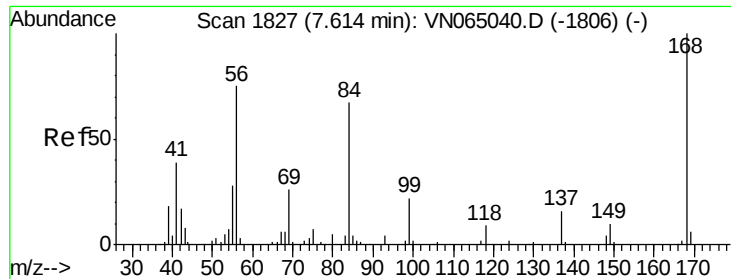
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

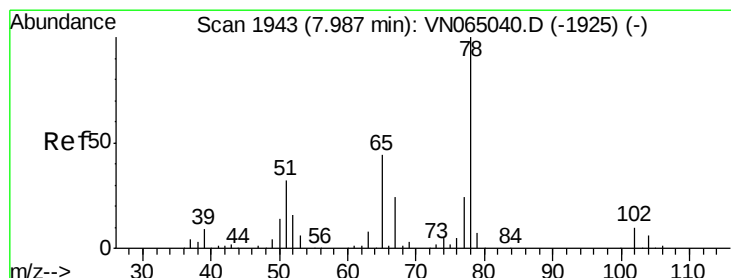
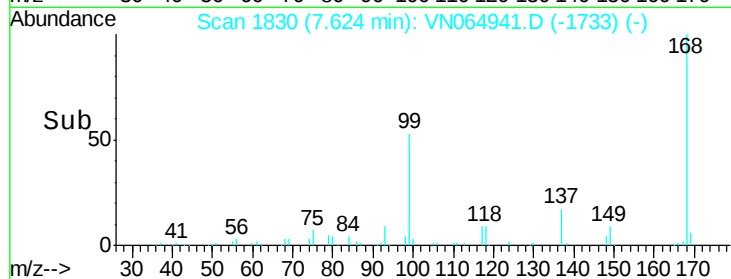
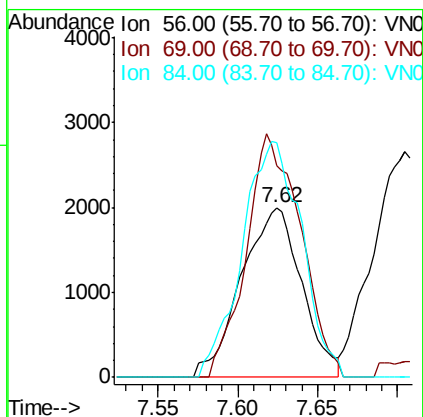
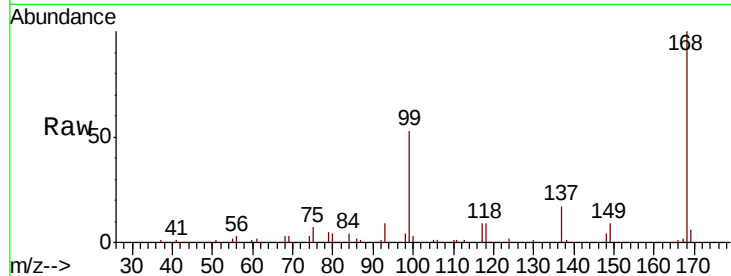
Ion 85.90 (85.60 to 86.60): VN0





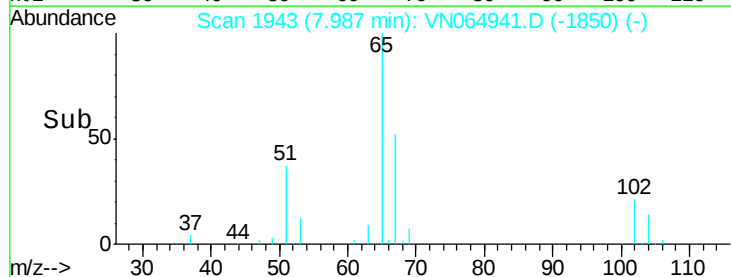
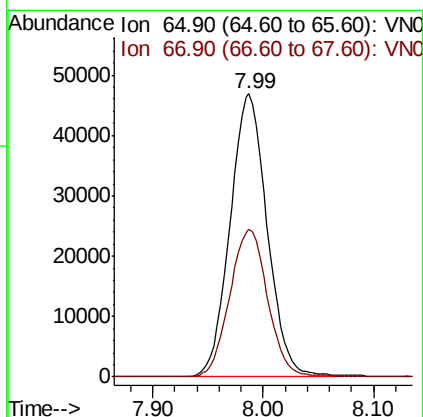
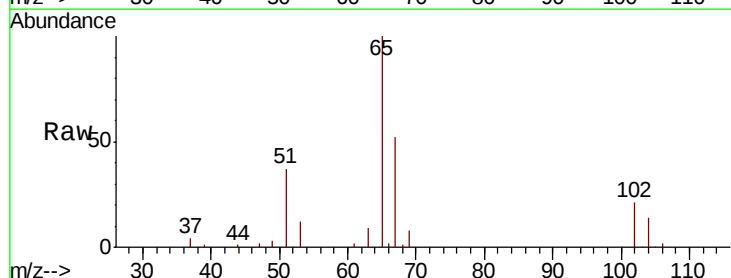
#31
Cyclohexane
Concen: 1.766 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

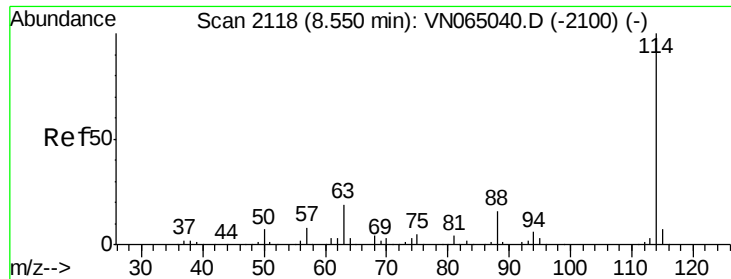
Tot Ion: 56 Resp: 5187
Ion Ratio Lower Upper
56 100
69 125.2 27.5 41.3#
84 138.4 73.9 110.9#



#33
1,2-Dichloroethane-d4
Concen: 51.824 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

Tgt Ion: 65 Resp: 109183
Ion Ratio Lower Upper
65 100
67 53.2 0.0 108.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

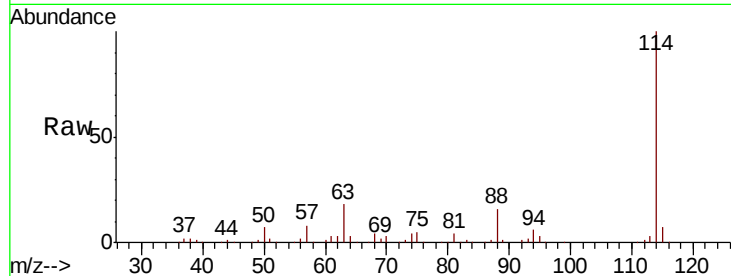
Tot Ion:114 Resp: 321745

Ion Ratio Lower Upper

114 100

63 18.5 0.0 38.6

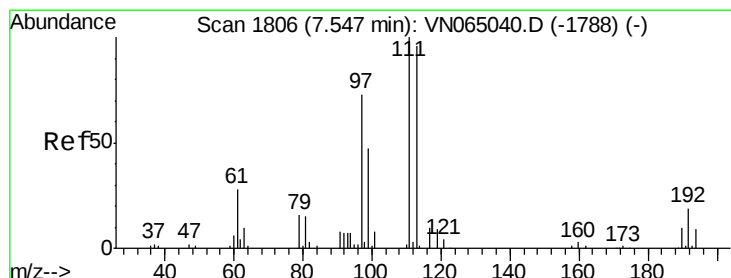
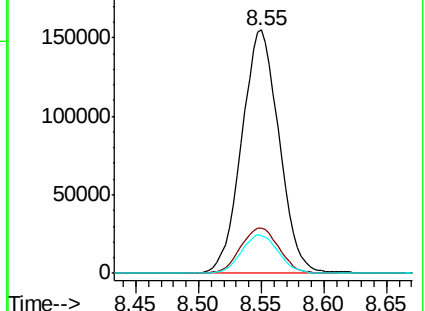
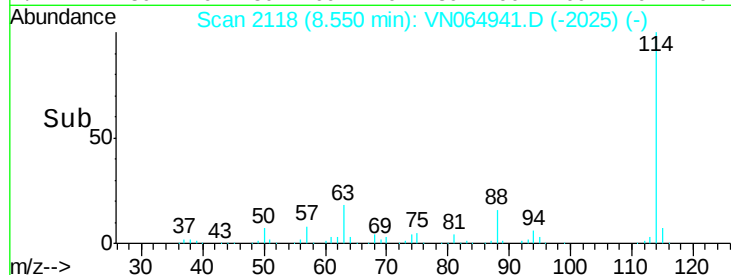
88 15.6 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 52.431 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

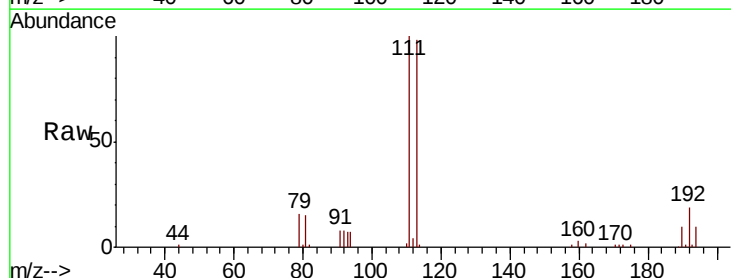
Tgt Ion:113 Resp: 100941

Ion Ratio Lower Upper

113 100

111 103.7 81.6 122.4

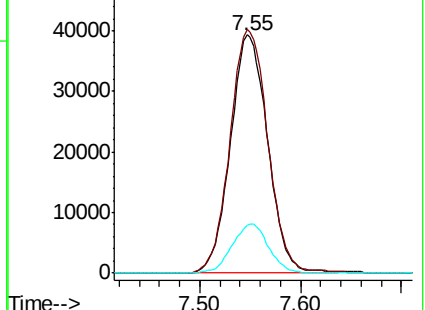
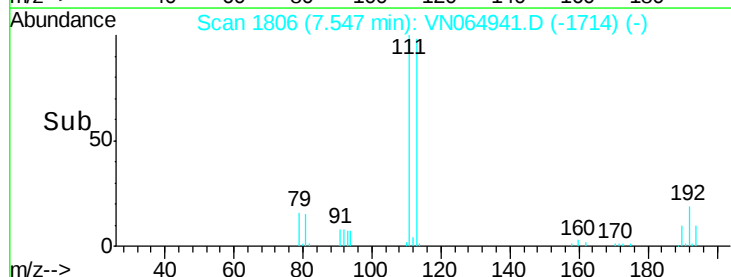
192 20.0 16.2 24.2

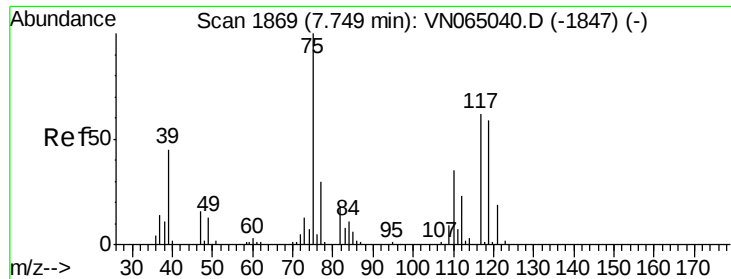


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

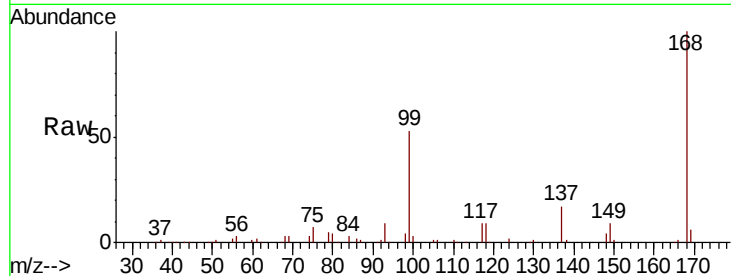
Ion 191.70 (191.40 to 192.40): V



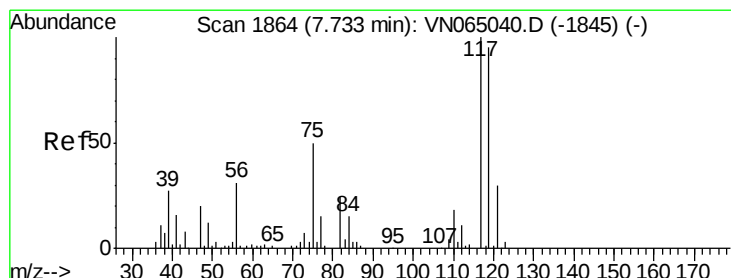
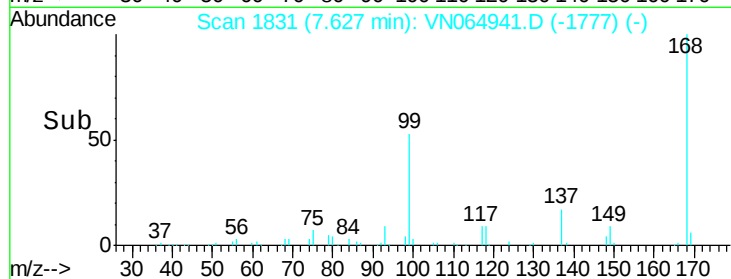
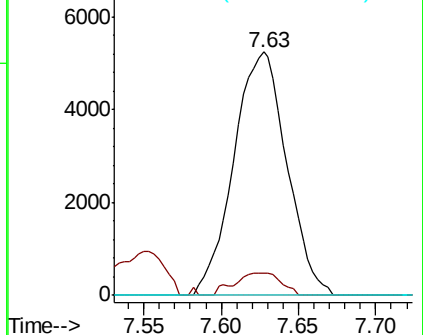


#36
 1,1-Dichloropropene
 Concen: 4.185 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064941.D
 Acq: 7 Dec 2020 13:35

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	17.8	53.3#
77	0.0	25.0	37.4#

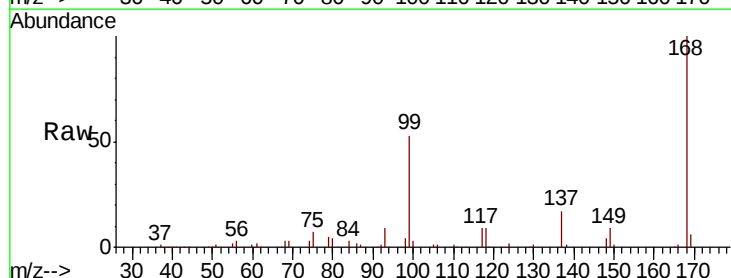


Abundance Ion 74.90 (74.60 to 75.60): VN065040.D (-1847) (-)
 Ion 109.90 (109.60 to 110.60): VN065040.D (-1847) (-)
 Ion 76.90 (76.60 to 77.60): VN065040.D (-1847) (-)

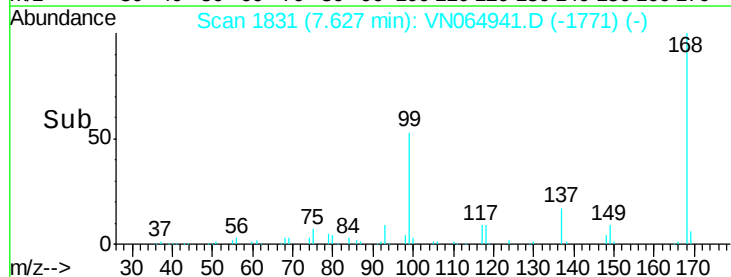
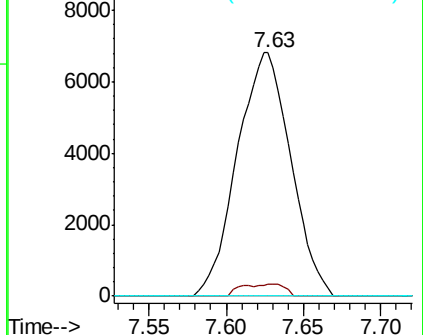


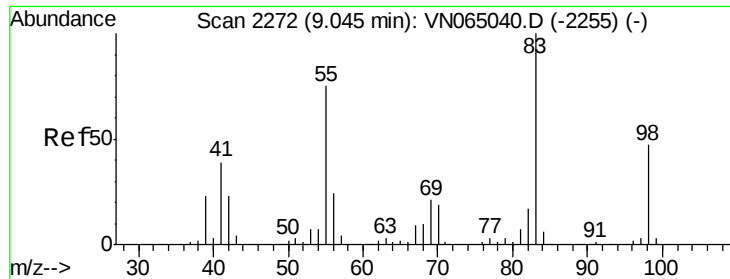
#38
 Carbon Tetrachloride
 Concen: 5.285 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064941.D
 Acq: 7 Dec 2020 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.7	115.1#
121	0.0	25.4	38.2#



Abundance Ion 116.80 (116.50 to 117.50): VN065040.D (-1845) (-)
 Ion 118.80 (118.50 to 119.50): VN065040.D (-1845) (-)
 Ion 120.80 (120.50 to 121.50): VN065040.D (-1845) (-)





#39

Methylcyclohexane

Concen: 0.943 ug/l

RT: 9.03 min Scan# 2268

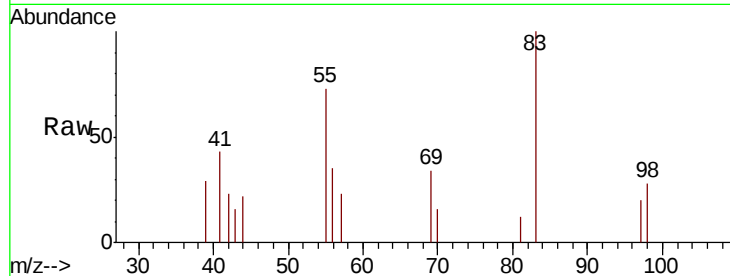
Delta R.T. -0.01 min

Lab File: VN064941.D

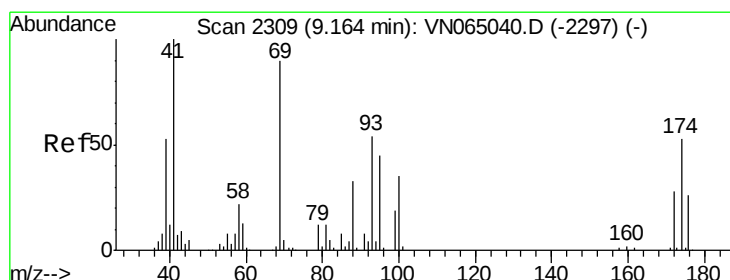
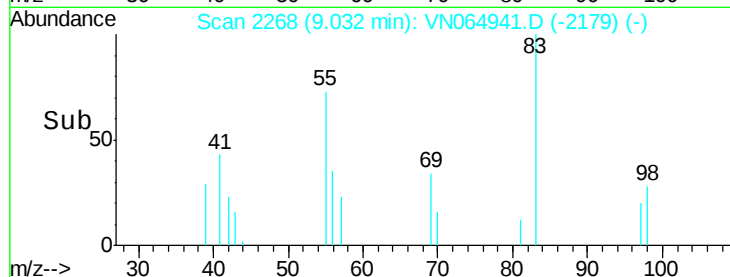
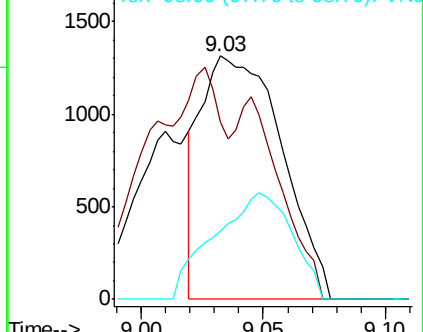
Acq: 7 Dec 2020 13:35

Tot Ion: 83 Resp: 3029

Ion	Ratio	Lower	Upper
83	100		
55	72.9	60.2	90.2
98	28.3	37.4	56.2#



Abundance Ion 83.00 (82.70 to 83.70): VN065040.D (-2255) (-)



#48

Methyl methacrylate

Concen: 0.293 ug/l

RT: 9.18 min Scan# 2315

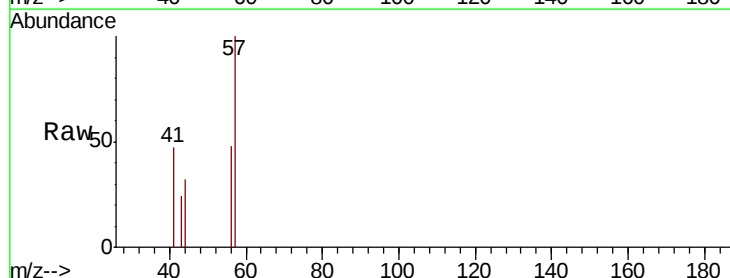
Delta R.T. 0.02 min

Lab File: VN064941.D

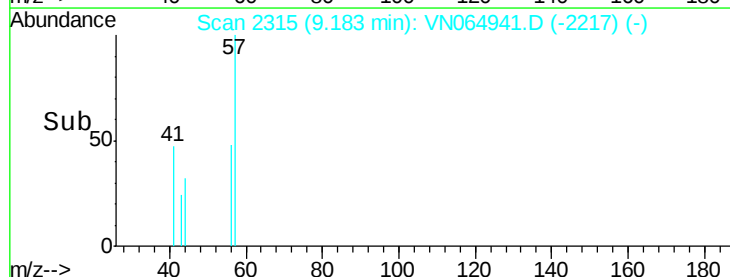
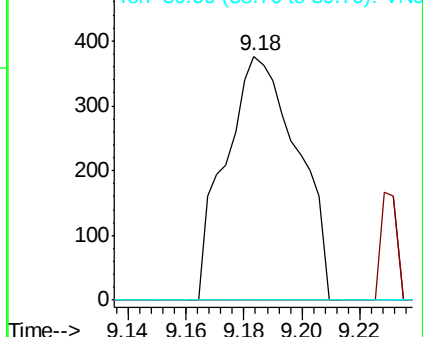
Acq: 7 Dec 2020 13:35

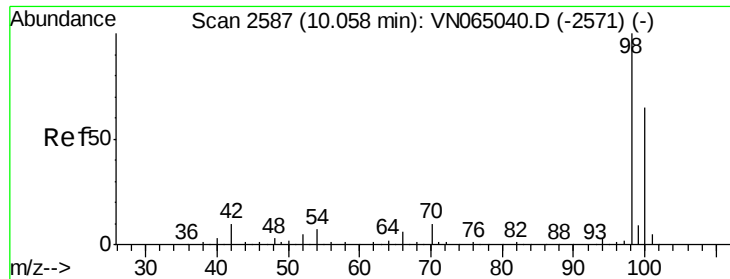
Tgt Ion: 41 Resp: 647

Ion	Ratio	Lower	Upper
41	100		
69	0.0	71.8	107.8#
39	0.0	44.1	66.1#



Abundance Ion 41.00 (40.70 to 41.70): VN065040.D (-2297) (-)





#50

Toluene-d8

Concen: 51.206 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064941.D

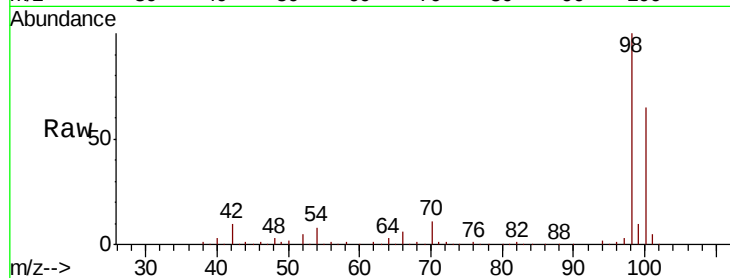
Acq: 7 Dec 2020 13:35

Tot Ion: 98 Resp: 402798

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

250000

200000

150000

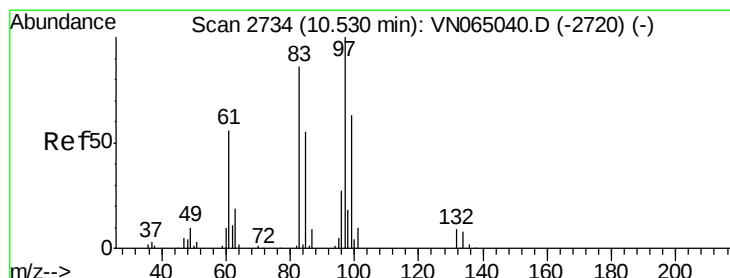
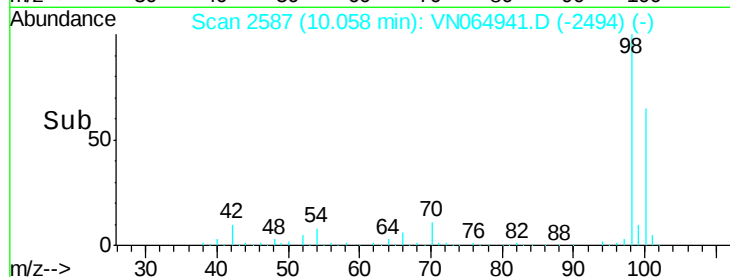
100000

50000

0

Time-->

10.00 10.10



#55

1,1,2-Trichloroethane

Concen: 0.533 ug/l

RT: 10.50 min Scan# 2725

Delta R.T. -0.03 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

Tgt Ion: 97 Resp: 1233

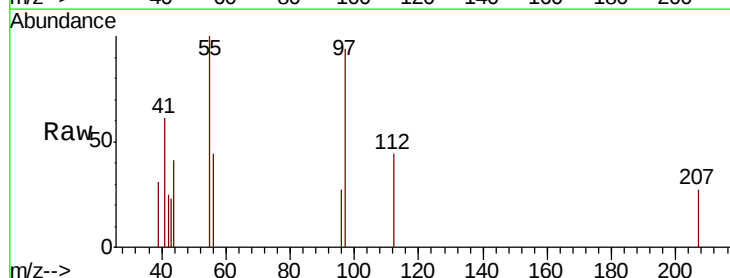
Ion Ratio Lower Upper

97 100

83 0.0 72.1 108.1#

85 0.0 46.8 70.2#

99 0.0 49.6 74.4#



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

1000

800

600

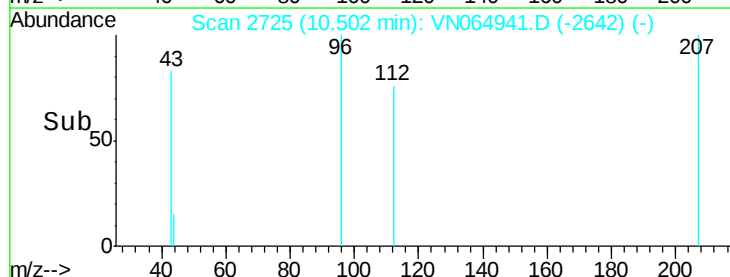
400

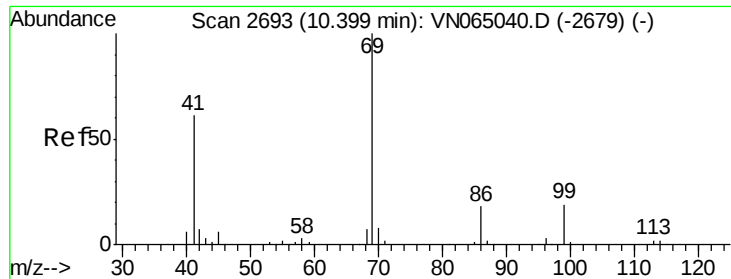
200

0

Time-->

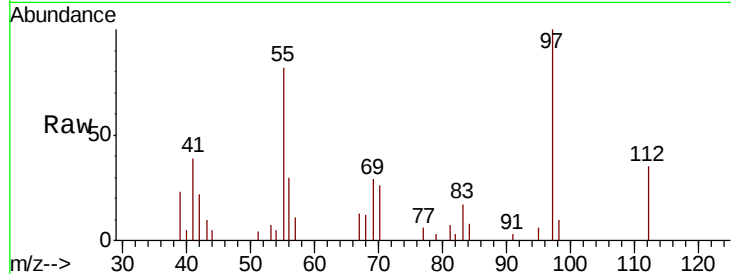
10.45 10.50



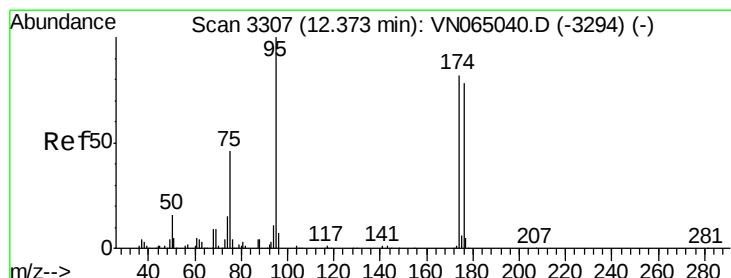
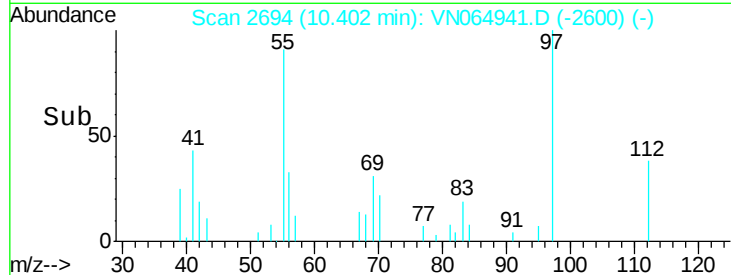
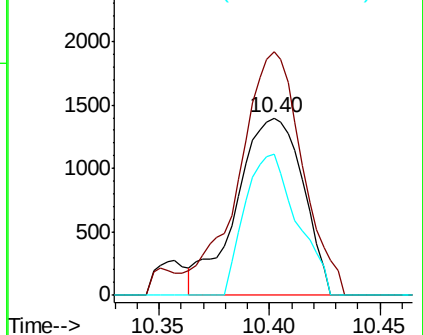


#56
Ethyl methacrylate
Concen: 0.916 ug/l
RT: 10.40 min Scan# 2694
Delta R.T. 0.00 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

Tot Ion: 69 Resp: 2924
Ion Ratio Lower Upper
69 100
41 131.1 49.4 74.0#
39 62.4 25.9 38.9#

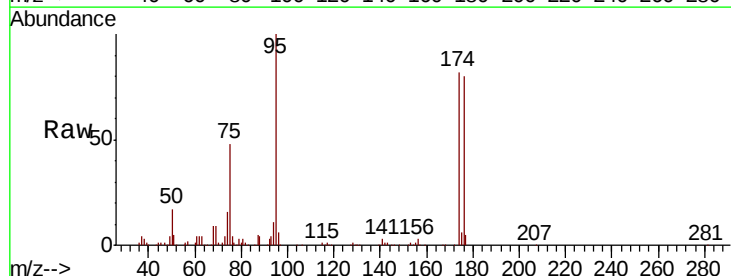


Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

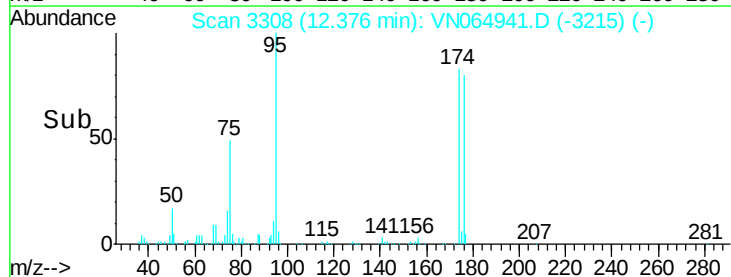
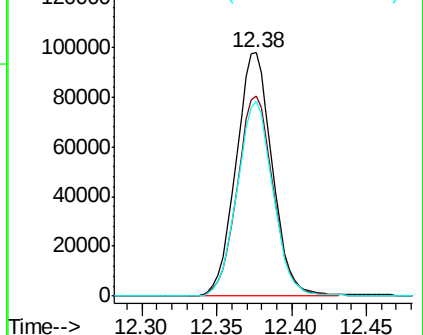


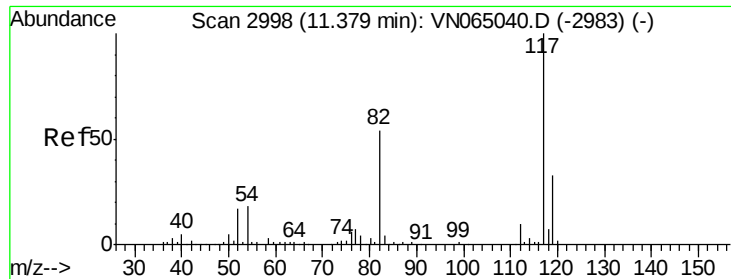
#62
4-Bromofluorobenzene
Concen: 58.674 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

Tgt Ion: 95 Resp: 165179
Ion Ratio Lower Upper
95 100
174 82.0 0.0 160.4
176 79.3 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

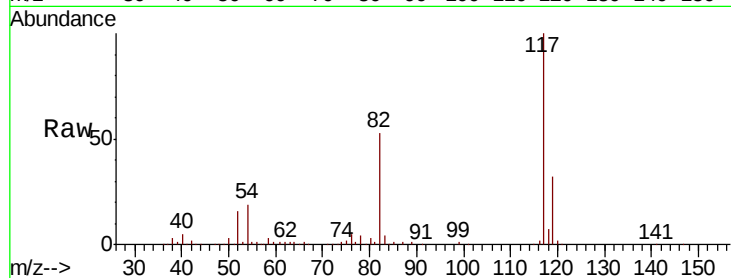
Tot Ion:117 Resp: 343975

Ion Ratio Lower Upper

117 100

82 53.4 44.2 66.2

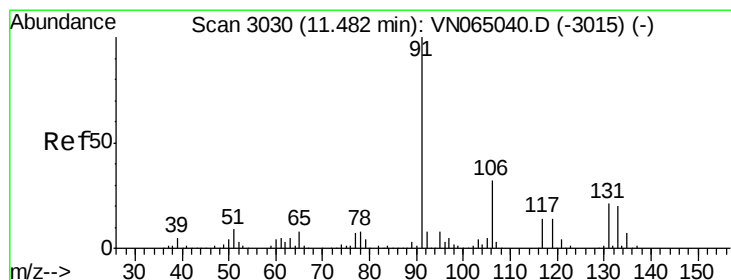
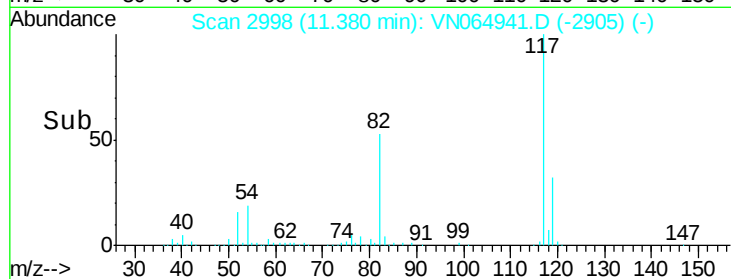
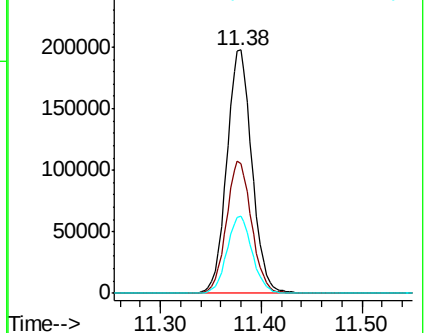
119 31.7 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 0.215 ug/l

RT: 11.48 min Scan# 3030

Delta R.T. 0.00 min

Lab File: VN064941.D

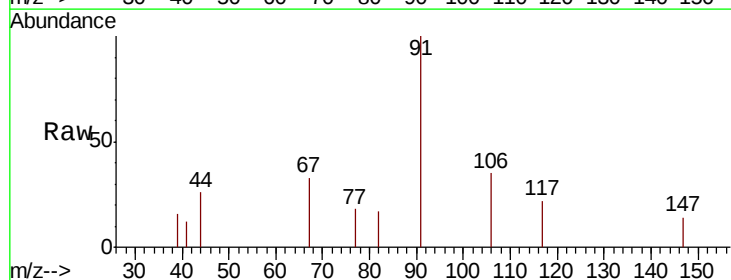
Acq: 7 Dec 2020 13:35

Tgt Ion: 91 Resp: 2658

Ion Ratio Lower Upper

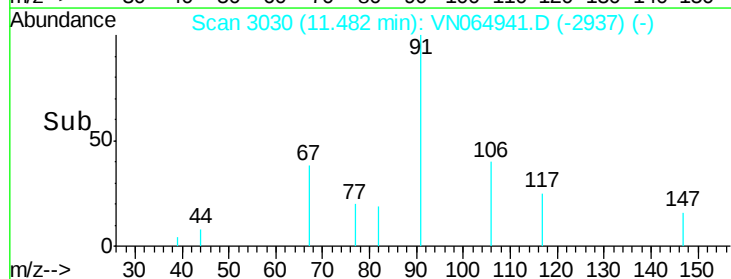
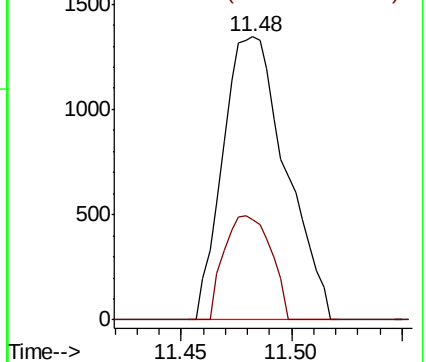
91 100

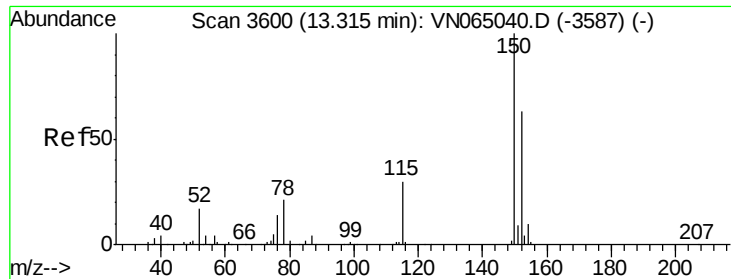
106 35.4 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 106.00 (105.70 to 106.70): V

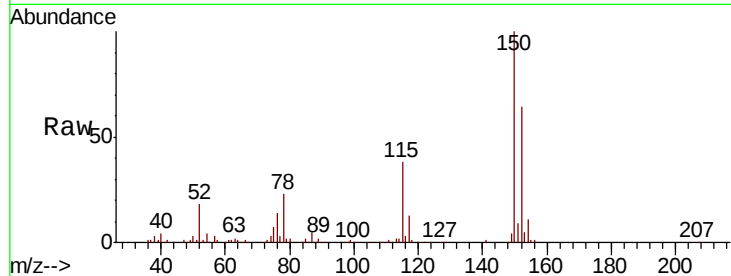




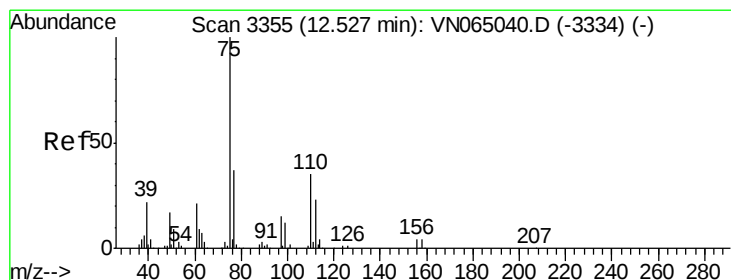
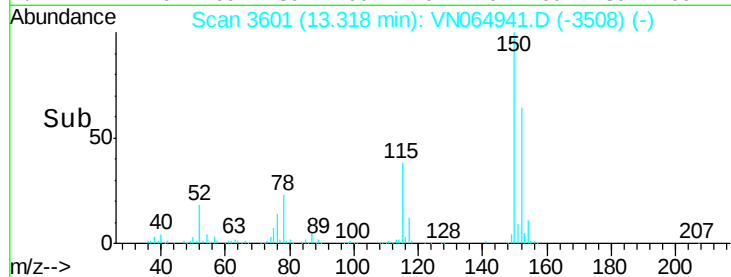
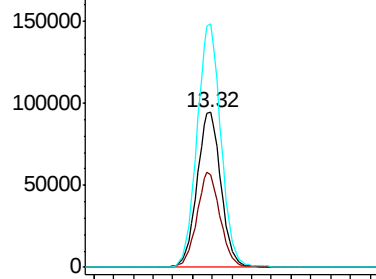
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.6	29.7	89.1
150	158.1	0.0	350.6



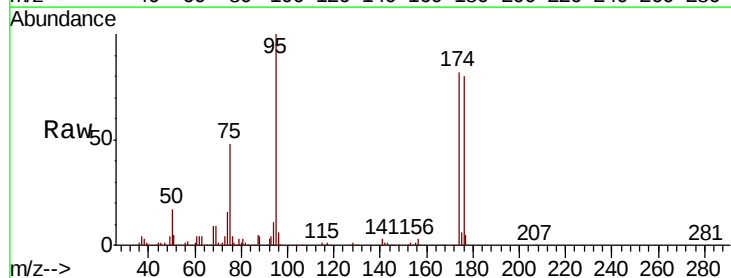
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



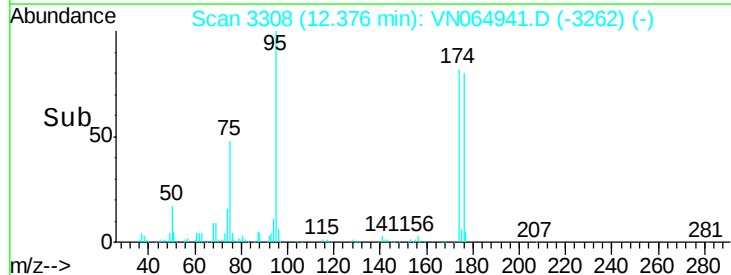
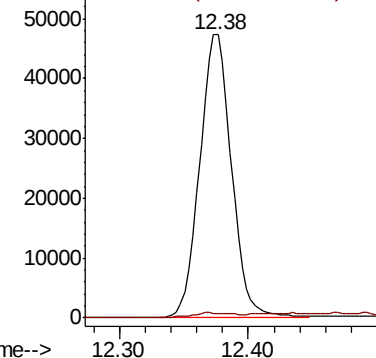
#76

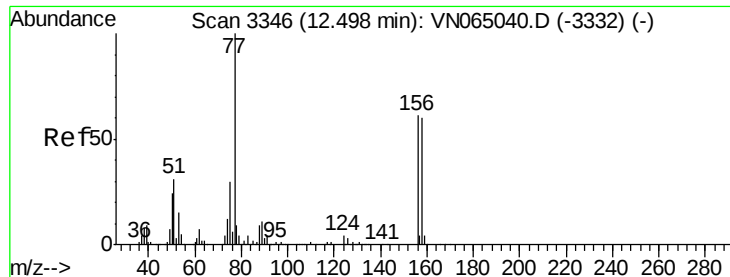
1,2,3-Trichloropropane
Concen: 23.608 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064941.D
Acq: 7 Dec 2020 13:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 5.712 ug/l

RT: 12.41 min Scan# 3318

Delta R.T. -0.09 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

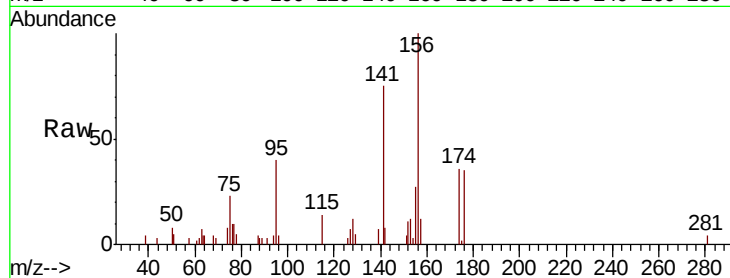
Tot Ion:156 Resp: 17116

Ion Ratio Lower Upper

156 100

77 0.0 101.3 303.7#

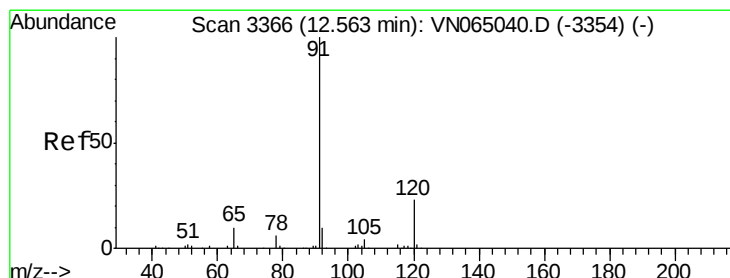
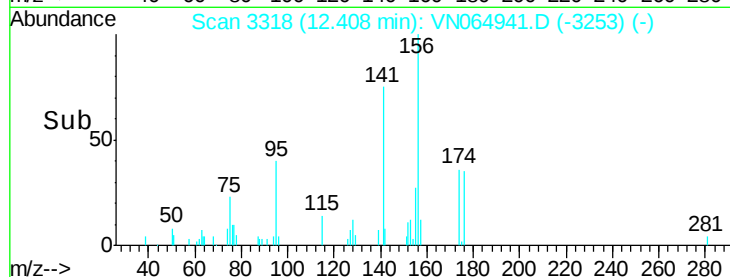
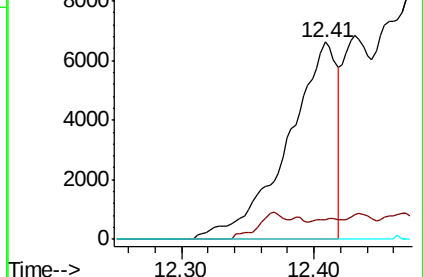
158 0.0 48.2 144.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.221 ug/l

RT: 12.57 min Scan# 3367

Delta R.T. 0.00 min

Lab File: VN064941.D

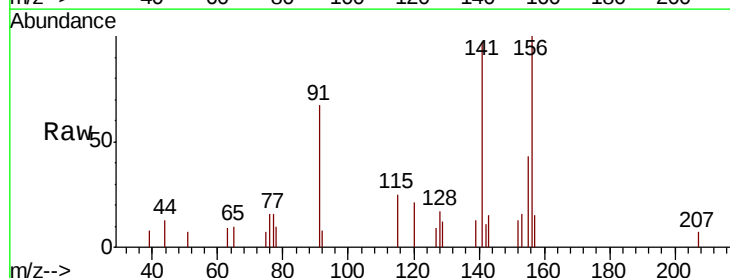
Acq: 7 Dec 2020 13:35

Tgt Ion: 91 Resp: 2794

Ion Ratio Lower Upper

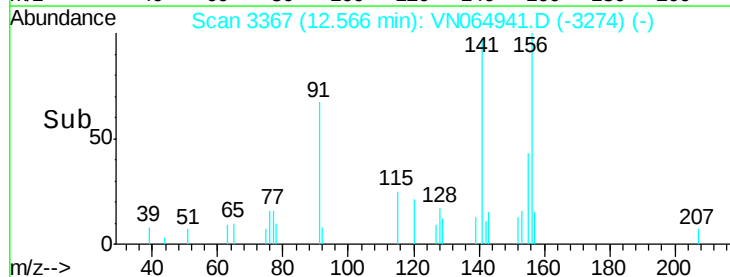
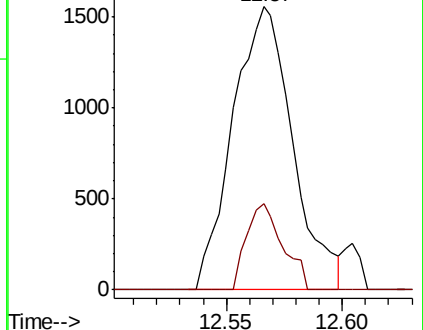
91 100

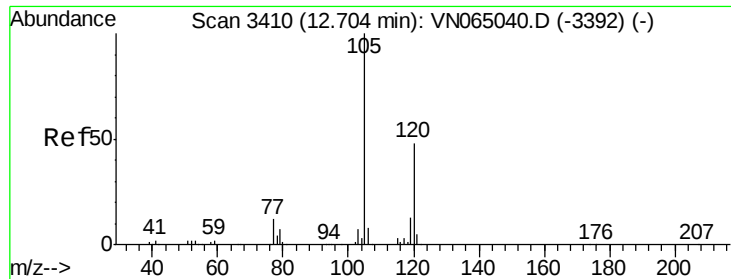
120 18.5 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VN0

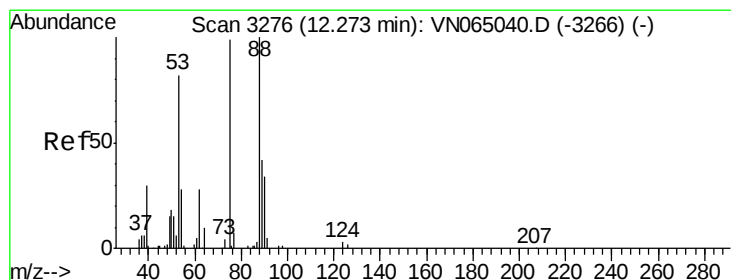
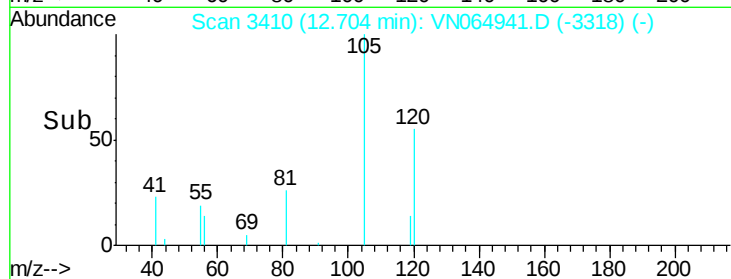
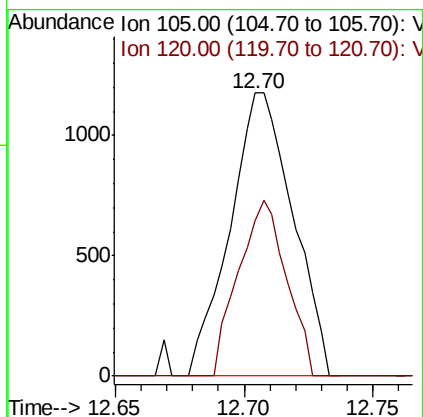
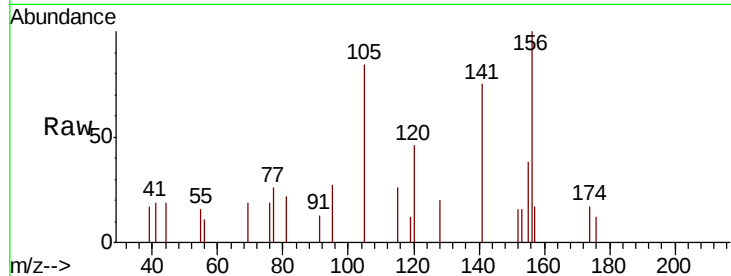
Ion 120.00 (119.70 to 120.70): V





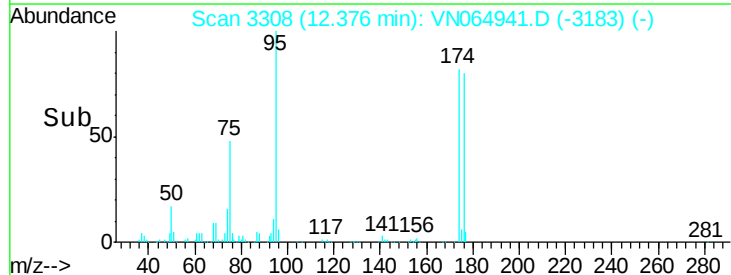
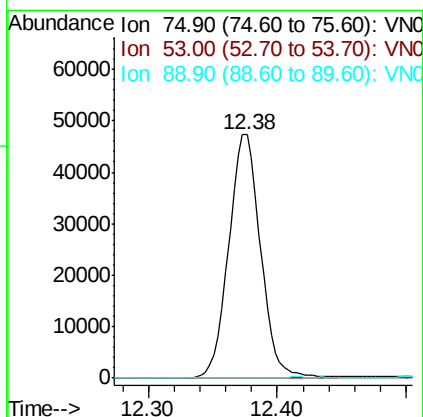
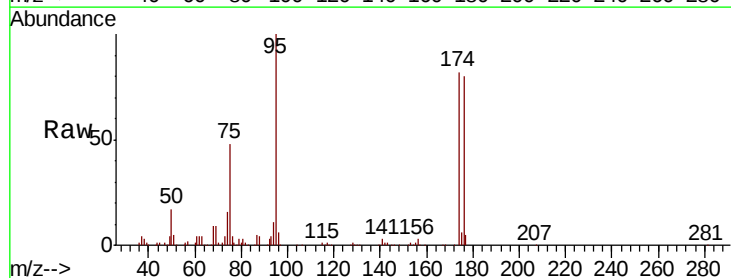
#80
 1,3,5-Trimethylbenzene
 Concen: 0.217 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN064941.D
 Acq: 7 Dec 2020 13:35

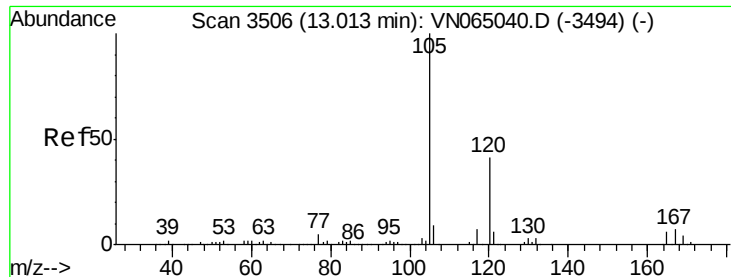
Tot Ion: 105 Resp: 2007
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.704 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064941.D
 Acq: 7 Dec 2020 13:35

Tgt Ion: 75 Resp: 81238
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.520 ug/l

RT: 13.01 min Scan# 3506

Delta R.T. 0.00 min

Lab File: VN064941.D

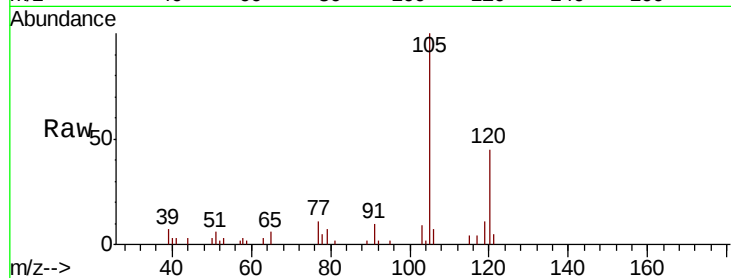
Acq: 7 Dec 2020 13:35

Tot Ion:105 Resp: 14194

Ion Ratio Lower Upper

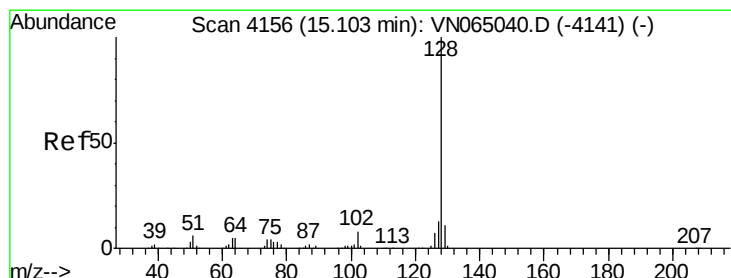
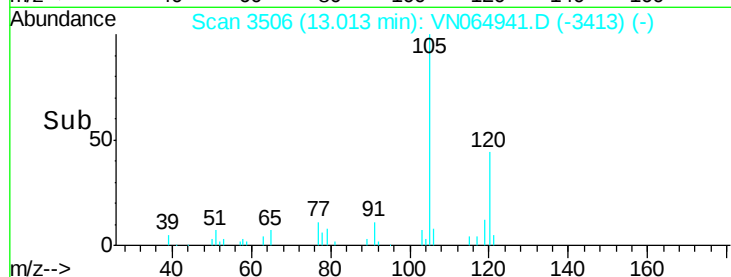
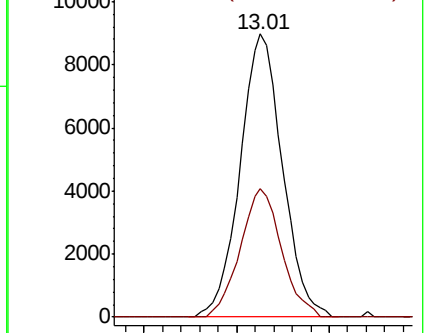
105 100

120 44.3 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 2.203 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN064941.D

Acq: 7 Dec 2020 13:35

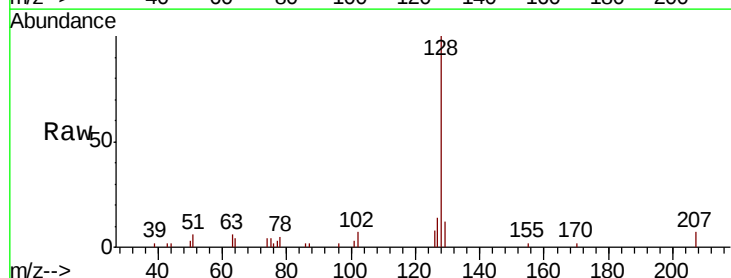
Tgt Ion:128 Resp: 21344

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 12.3 8.7 13.1



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

