

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063388.D
 Acq On : 17 Sep 2020 1:28
 Operator : JC/MD
 Sample : PB131646ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#15

Quant Time: Sep 17 05:12:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	240130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	449355	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	450224	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	194236	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	196962	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
35) Dibromofluoromethane	7.55	113	142557	45.83	ug/l	0.00
Spiked Amount			Recovery	=	91.66%	
50) Toluene-d8	10.06	98	586849	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	12.38	95	237087	55.29	ug/l	0.00
Spiked Amount			Recovery	=	110.58%	

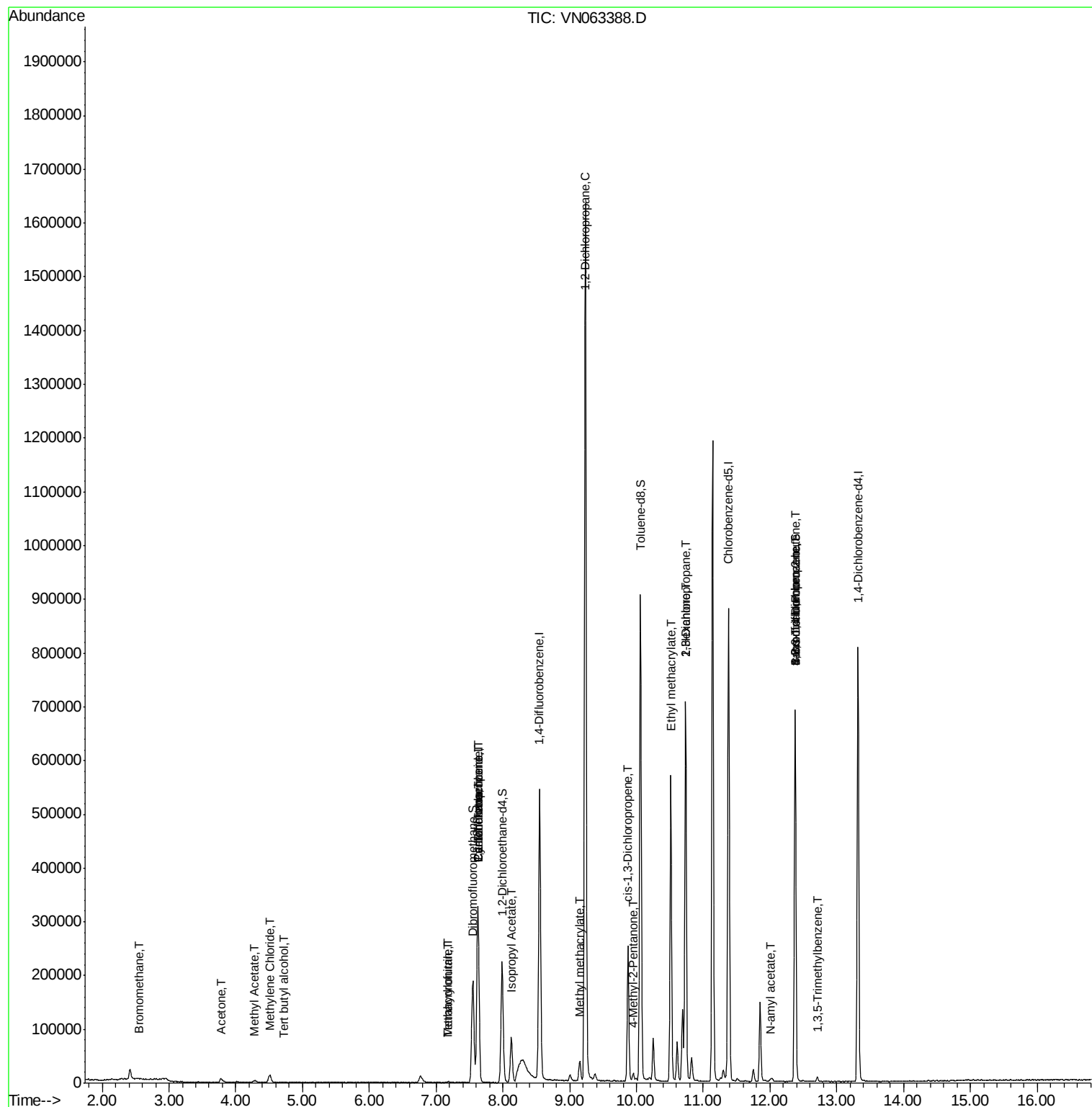
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	445	0.235	ug/l #	76
11) Tert butyl alcohol	4.72	59	163	0.288	ug/l #	72
16) Acetone	3.78	43	10855	8.263	ug/l	99
18) Methyl Acetate	4.29	43	4917	1.474	ug/l #	81
20) Methylene Chloride	4.50	84	8948	2.688	ug/l	92
29) Tetrahydrofuran	7.17	42	376	0.272	ug/l #	49
31) Cyclohexane	7.63	56	6820	1.208	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	23738	4.959	ug/l #	51
38) Carbon Tetrachloride	7.62	117	26576	5.438	ug/l #	16
41) Methacrylonitrile	7.17	41	1268	0.600	ug/l #	100
43) Isopropyl Acetate	8.13	43	100459	11.957	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1677	0.451	ug/l #	43
48) Methyl methacrylate	9.15	41	5831	1.413	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	10497	2.232	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	41455	6.927	ug/l #	62
56) Ethyl methacrylate	10.52	69	1667	0.327	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6764	1.149	ug/l #	42
59) 2-Hexanone	10.74	43	108545	31.855	ug/l #	53
71) Bromoform	12.37	173	1179	0.452	ug/l #	1
74) N-amyl acetate	12.01	43	3836	0.521	ug/l #	56
76) 1,2,3-Trichloropropane	12.38	75	130368	27.117	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4381	0.338	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	130368	74.345	ug/l #	7

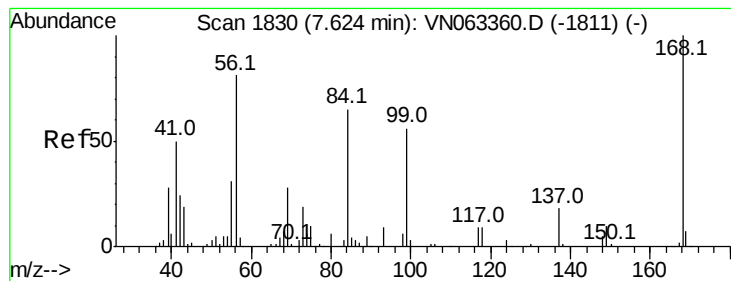
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

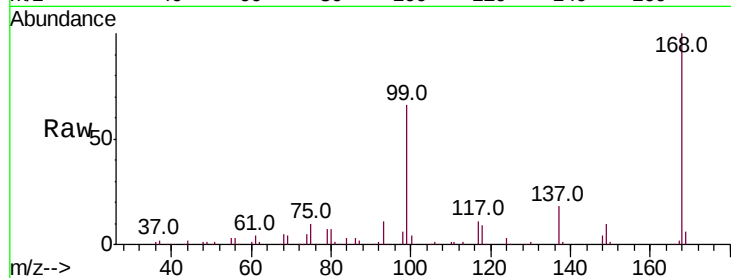
PB131646ZHE#15

Tot Ion:168 Resp: 240130

Ion Ratio Lower Upper

168 100

99 65.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): VN063360.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063360.D (-1811) (-)

7.63

100000

80000

60000

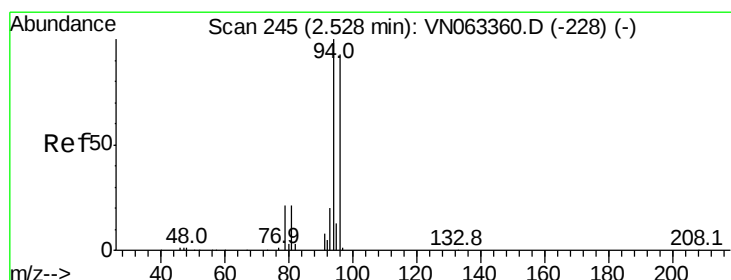
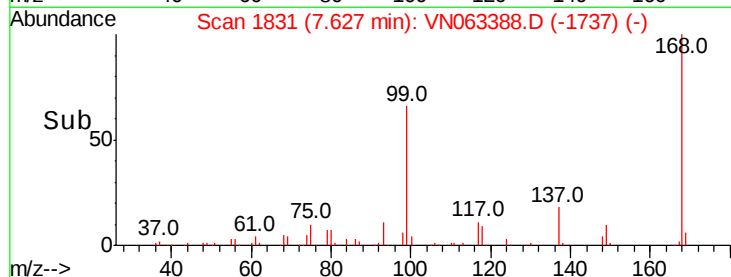
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#5

Bromomethane

Concen: 0.235 ug/l

RT: 2.55 min Scan# 252

Delta R.T. 0.02 min

Lab File: VN063388.D

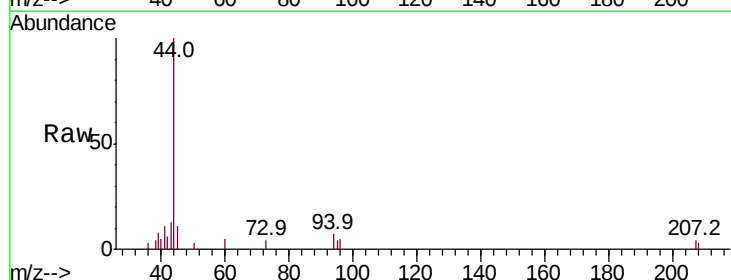
Acq: 17 Sep 2020 1:28

Tgt Ion: 94 Resp: 445

Ion Ratio Lower Upper

94 100

96 69.9 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VN063360.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN063360.D (-228) (-)

2.55

400

300

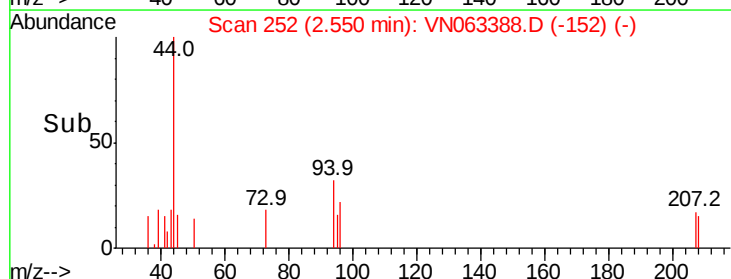
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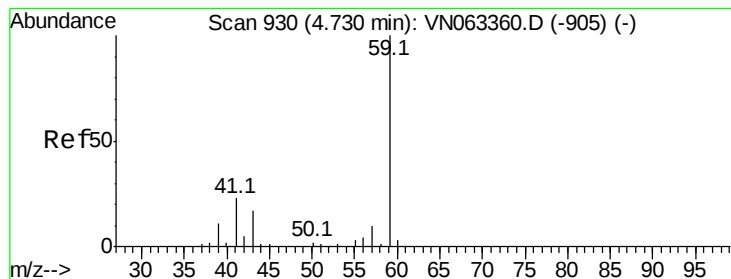
100

0

Time-->

2.52 2.54 2.56



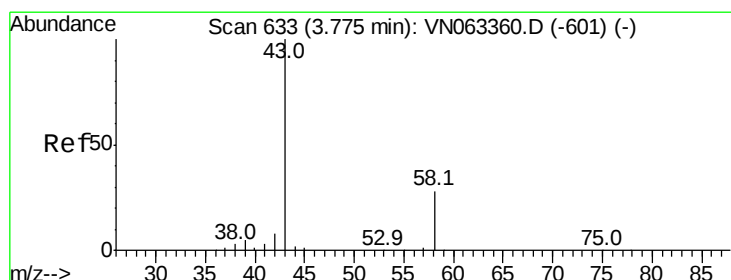
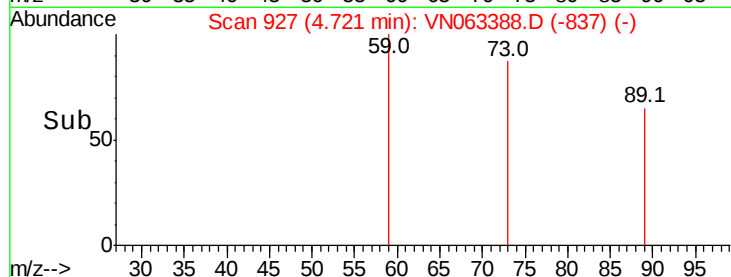
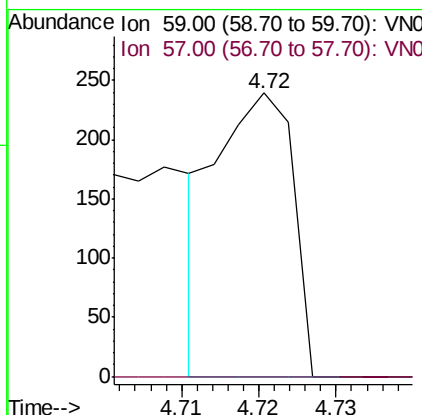
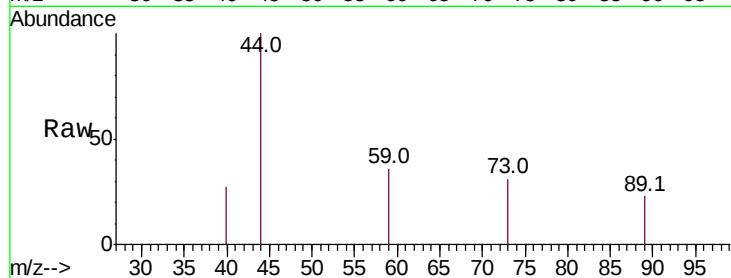


#11

Tert butyl alcohol
 Concen: 0.288 ug/l
 RT: 4.72 min Scan# 927
 Delta R.T. -0.01 min
 Lab File: VN063388.D
 Acq: 17 Sep 2020 1:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131646ZHE#15

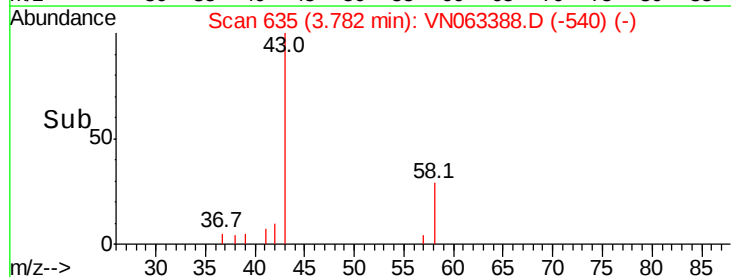
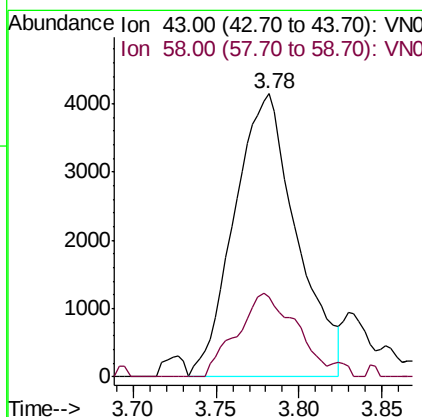
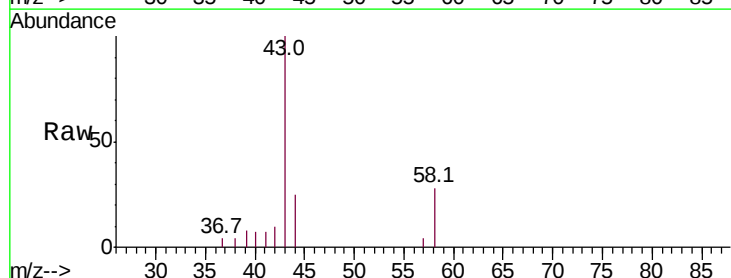
Tot Ion: 59 Resp: 163
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

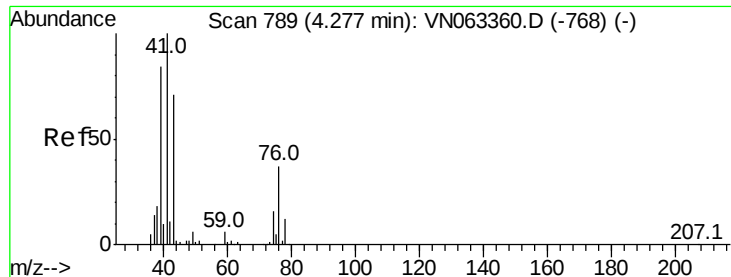


#16

Acetone
 Concen: 8.263 ug/l
 RT: 3.78 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VN063388.D
 Acq: 17 Sep 2020 1:28

Tgt Ion: 43 Resp: 10855
 Ion Ratio Lower Upper
 43 100
 58 28.2 22.3 33.5

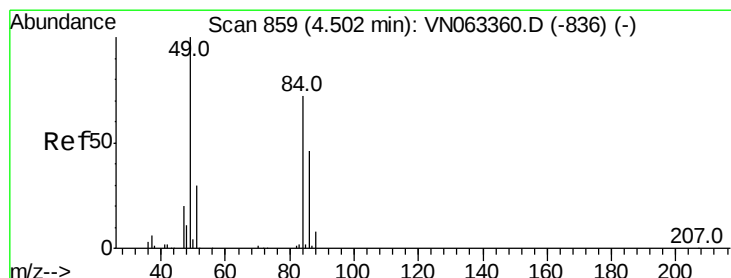
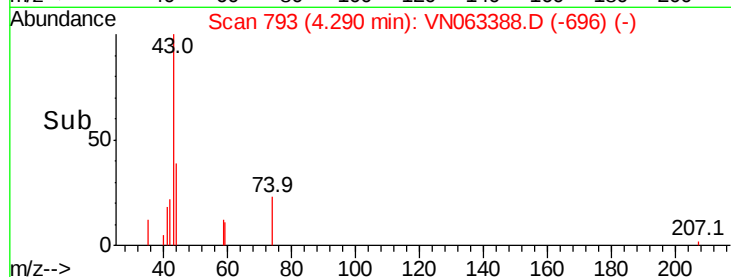
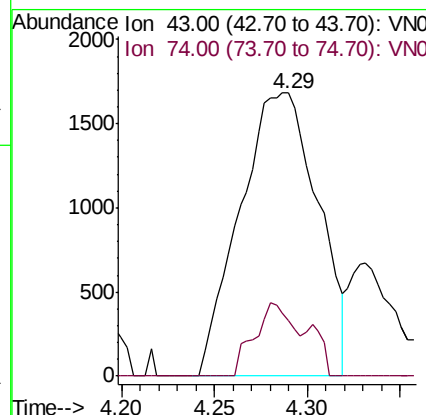
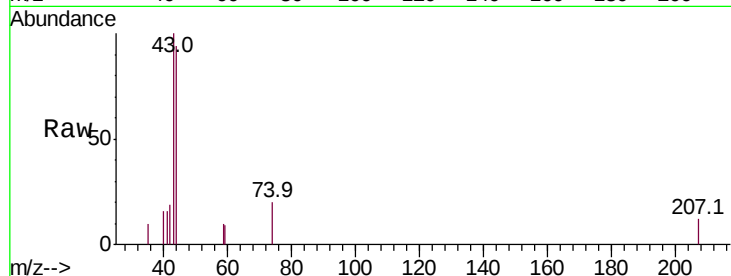




#18
Methyl Acetate
Concen: 1.474 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063388.D
Acq: 17 Sep 2020 1:28

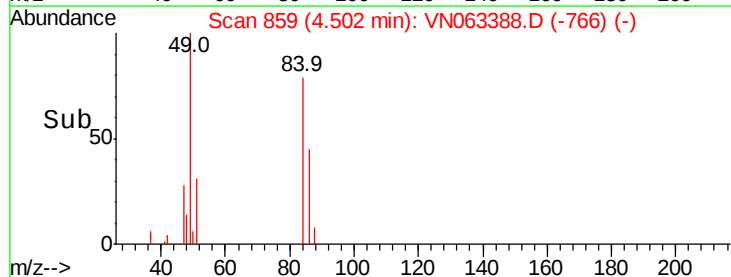
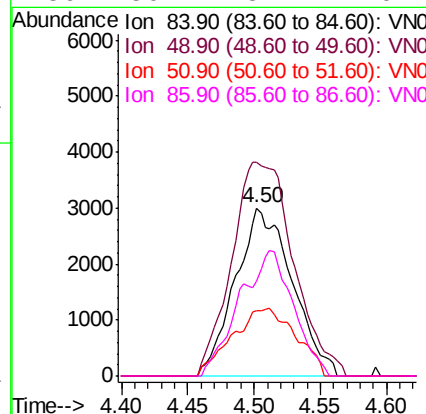
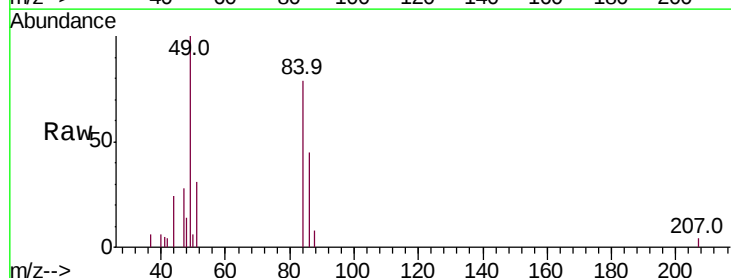
Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#15

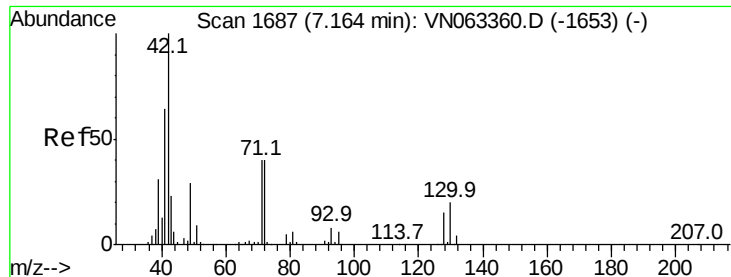
Tot Ion: 43 Resp: 4917
Ion Ratio Lower Upper
43 100
74 12.9 17.4 26.2#



#20
Methylene Chloride
Concen: 2.688 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063388.D
Acq: 17 Sep 2020 1:28

Tgt Ion: 84 Resp: 8948
Ion Ratio Lower Upper
84 100
49 127.2 110.7 166.1
51 39.0 32.9 49.3
86 56.7 51.1 76.7





#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

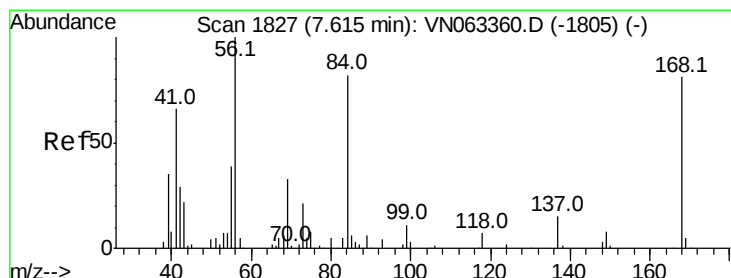
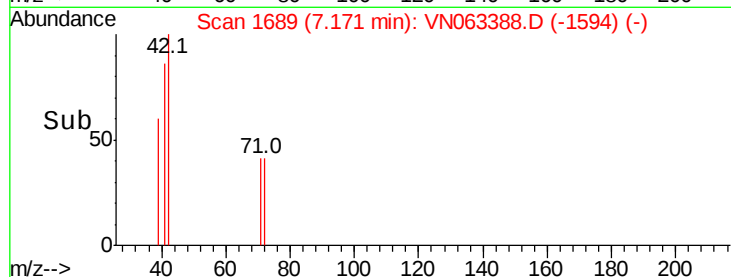
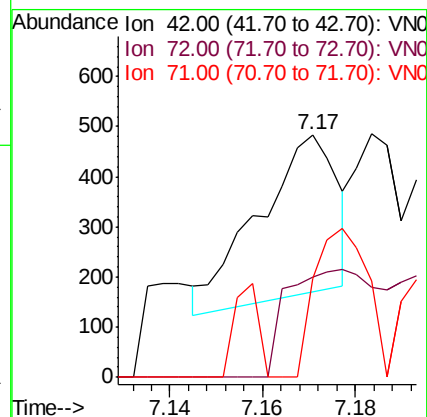
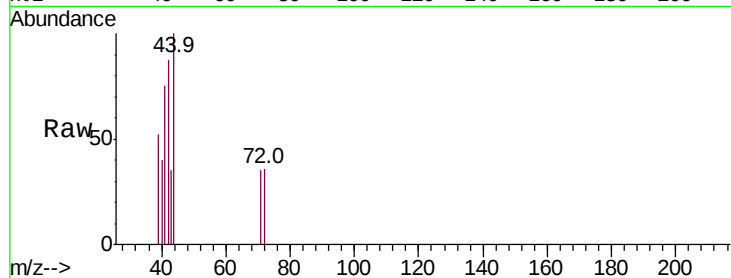
Tot Ion: 42 Resp: 376

Ion Ratio Lower Upper

42 100

72 79.0 32.1 48.1#

71 62.2 31.2 46.8#



#31

Cyclohexane

Concen: 1.208 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

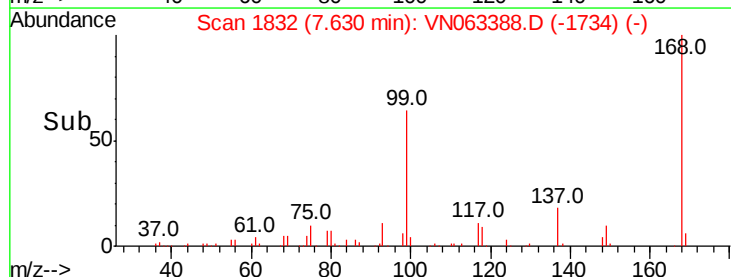
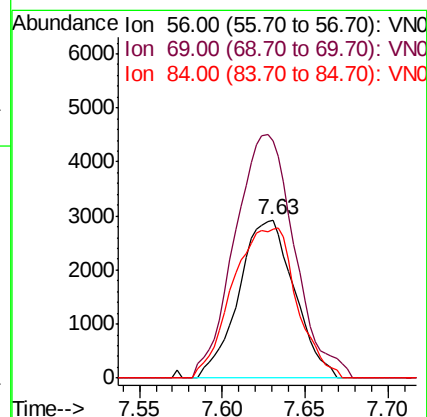
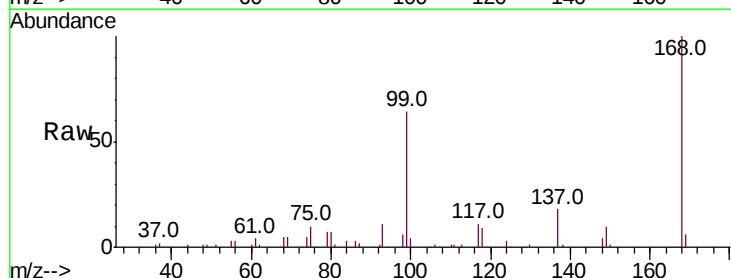
Tgt Ion: 56 Resp: 6820

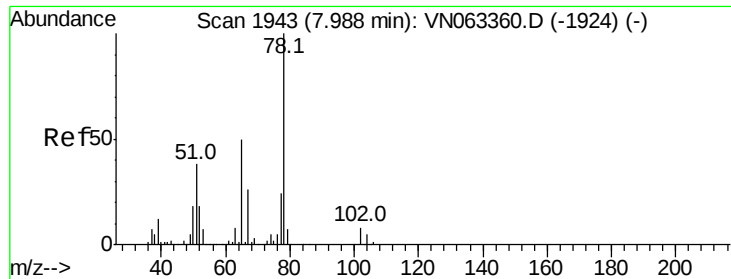
Ion Ratio Lower Upper

56 100

69 150.3 26.1 39.1#

84 94.4 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 48.185 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

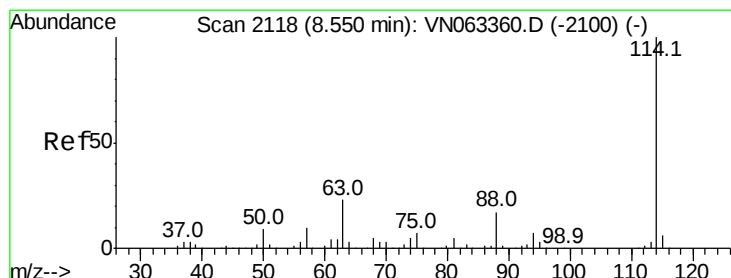
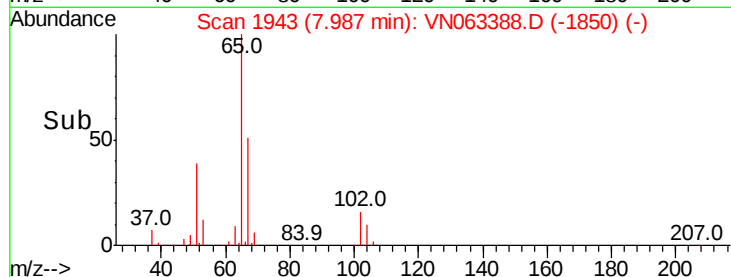
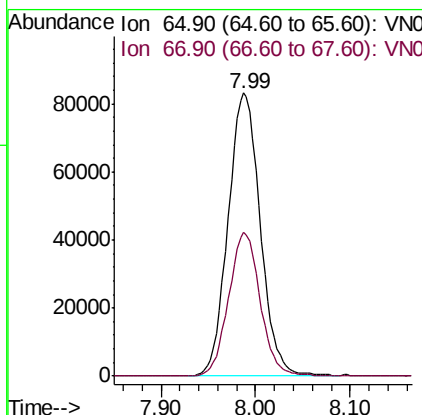
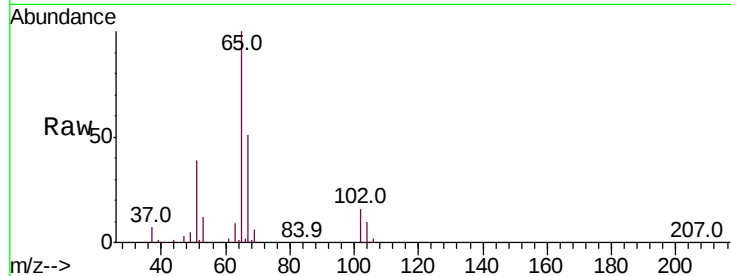
Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

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PB131646ZHE#15

Tot Ion: 65 Resp: 196962

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

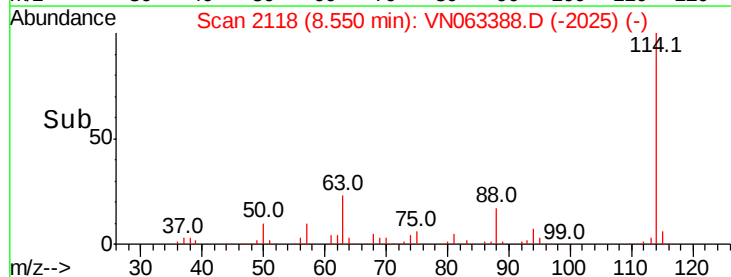
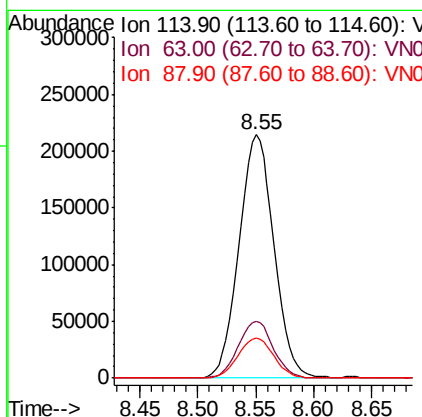
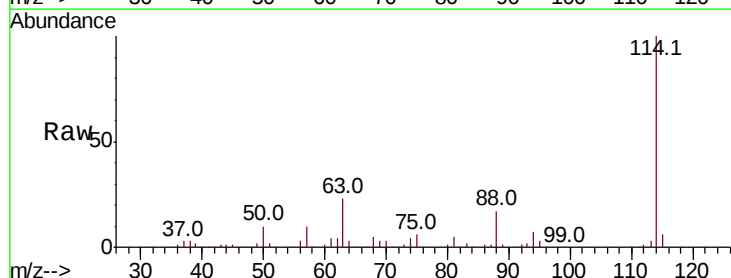
Delta R.T. -0.00 min

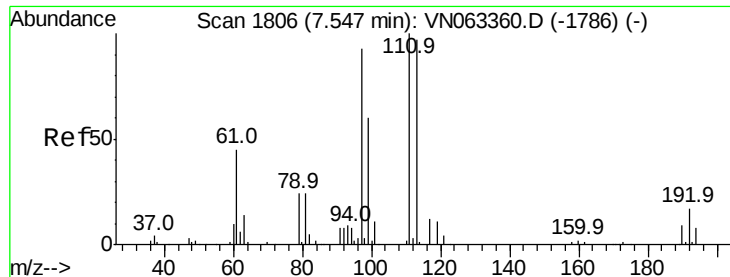
Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Tgt Ion: 114 Resp: 449355

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	46.4
88	16.5	0.0	33.2

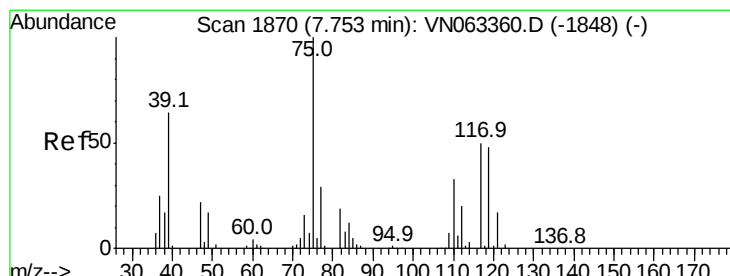
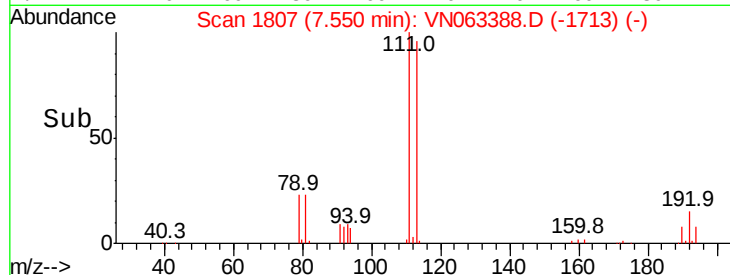
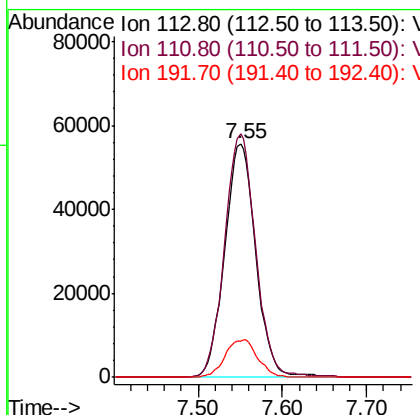
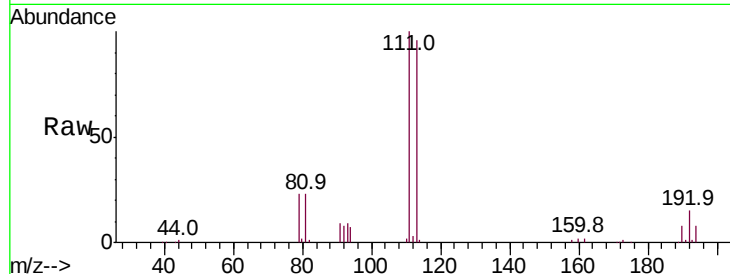




#35
 Dibromofluoromethane
 Concen: 45.827 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063388.D
 Acq: 17 Sep 2020 1:28

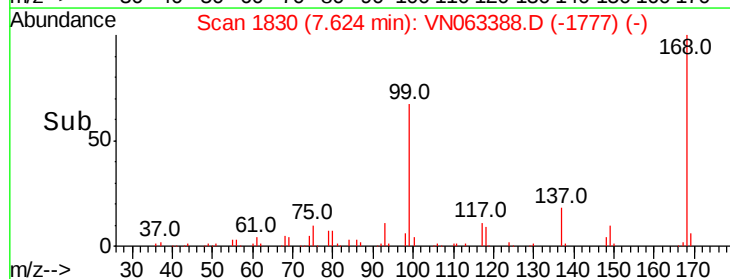
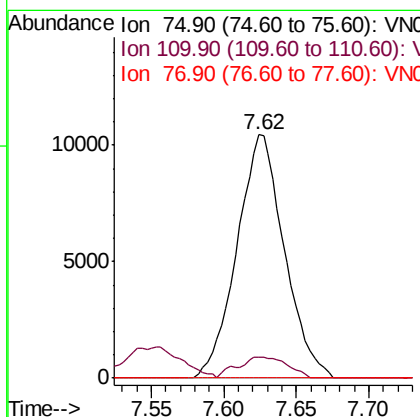
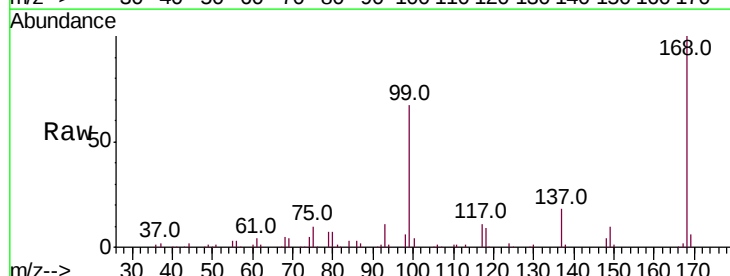
Instrument :
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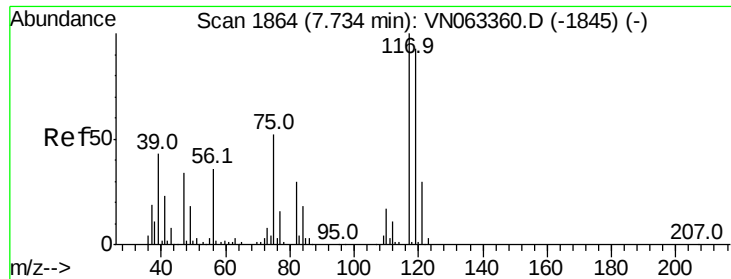
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.9	124.3
192	16.8	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063388.D
 Acq: 17 Sep 2020 1:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.5	49.5#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.438 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

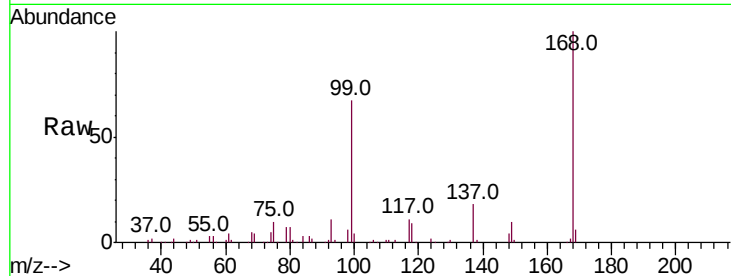
Tot Ion:117 Resp: 26576

Ion Ratio Lower Upper

117 100

119 3.9 74.5 111.7#

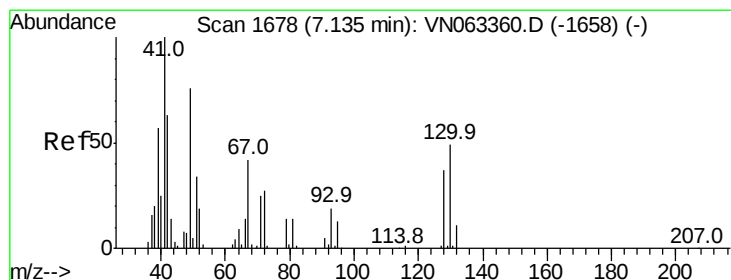
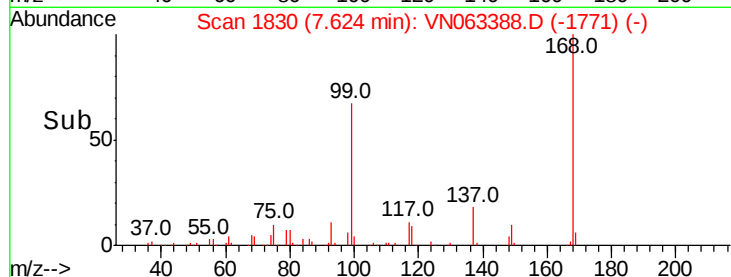
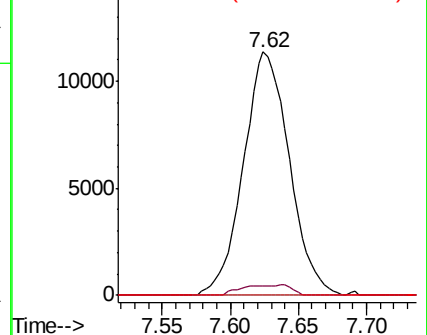
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.600 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.04 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Tgt Ion: 41 Resp: 1268

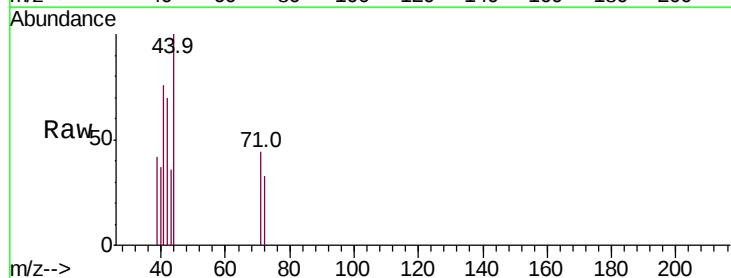
Ion Ratio Lower Upper

41 100

39 17.4 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

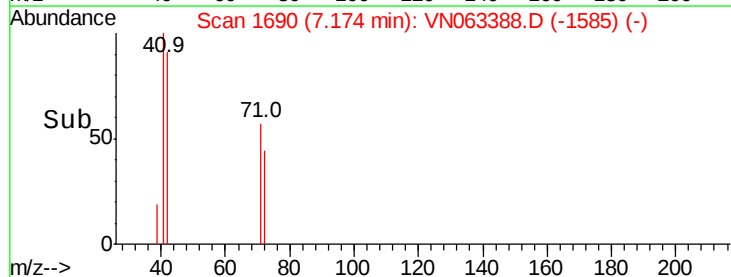
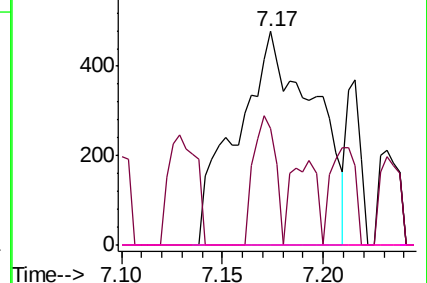


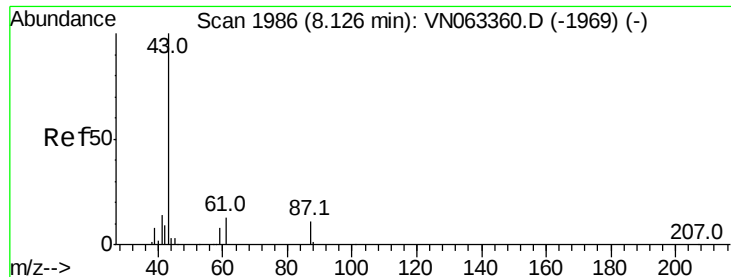
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 11.957 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

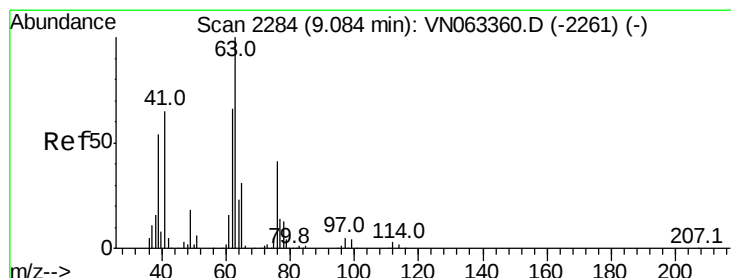
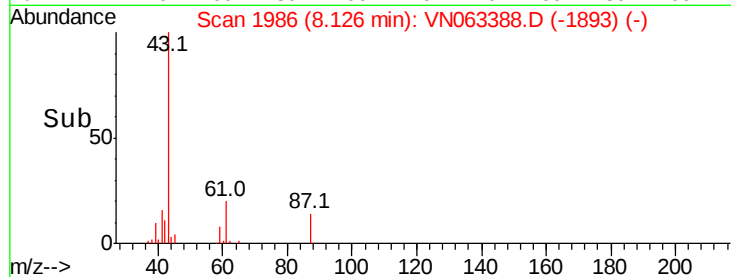
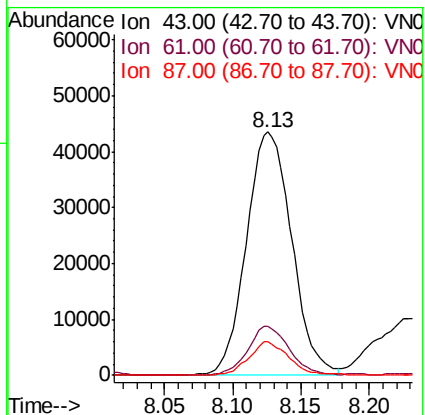
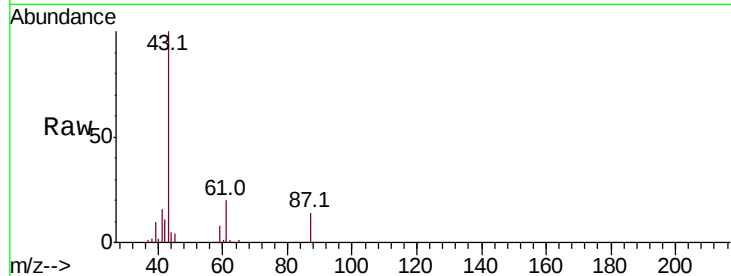
Tot Ion: 43 Resp: 100459

Ion Ratio Lower Upper

43 100

61 18.4 14.2 21.2

87 12.2 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.451 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063388.D

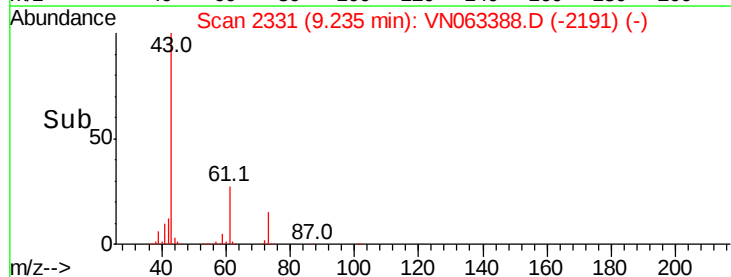
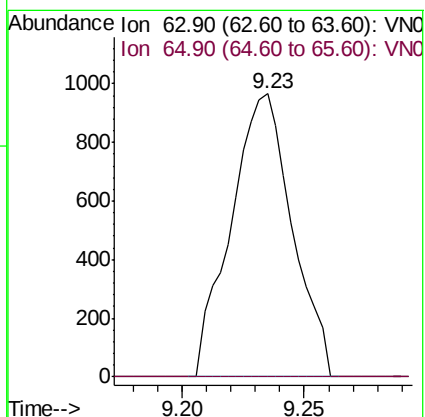
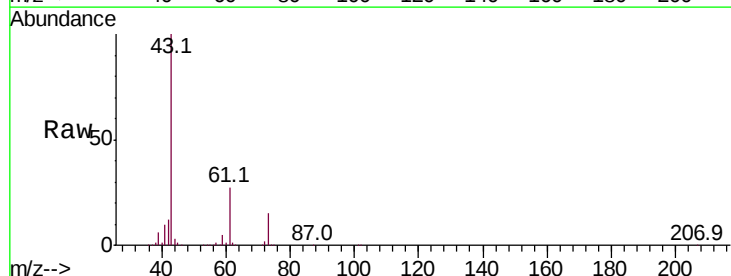
Acq: 17 Sep 2020 1:28

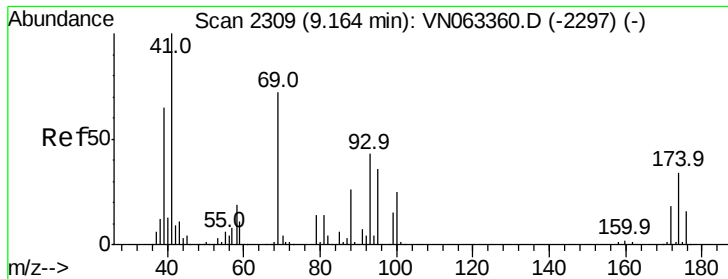
Tgt Ion: 63 Resp: 1677

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#





#48

Methyl methacrylate

Concen: 1.413 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

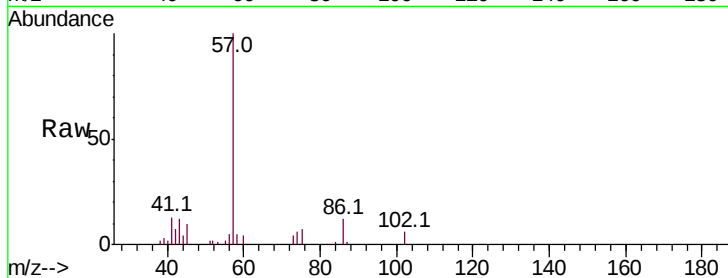
Tot Ion: 41 Resp: 5831

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#

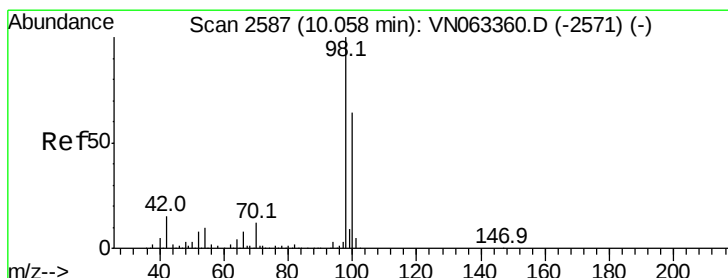
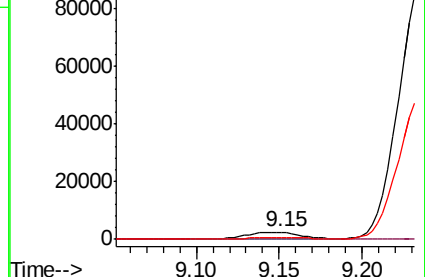
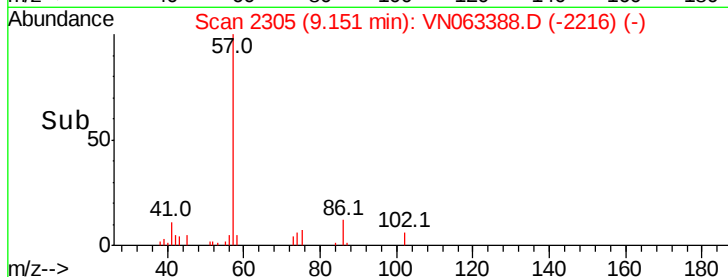


Abundance Ion 41.00 (40.70 to 41.70): VN063360.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN063360.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2297) (-)

Time-->



#50

Toluene-d8

Concen: 50.170 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063388.D

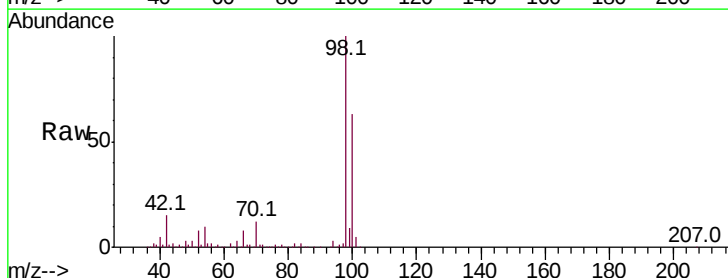
Acq: 17 Sep 2020 1:28

Tgt Ion: 98 Resp: 586849

Ion Ratio Lower Upper

98 100

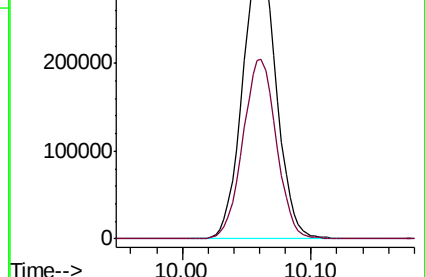
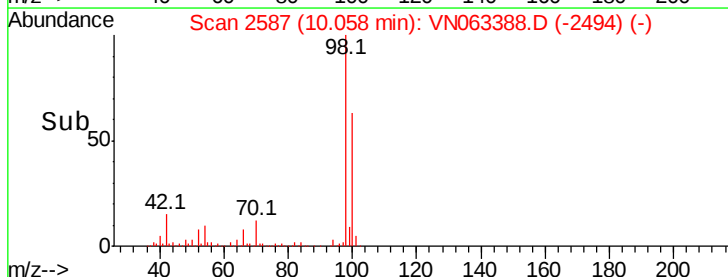
100 63.3 50.7 76.1

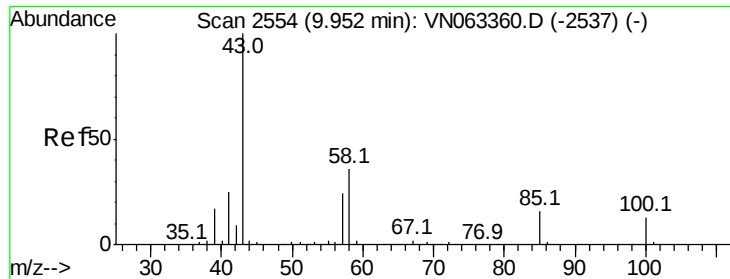


Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063360.D (-2571) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 2.232 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

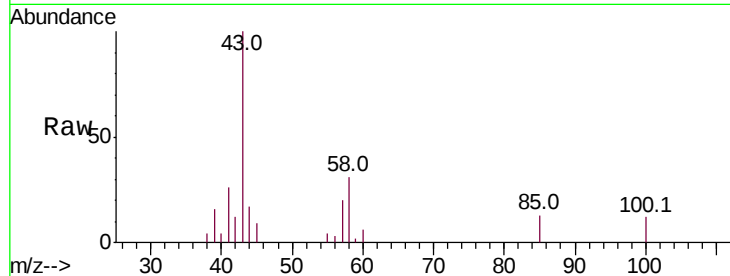
PB131646ZHE#15

Tot Ion: 43 Resp: 10497

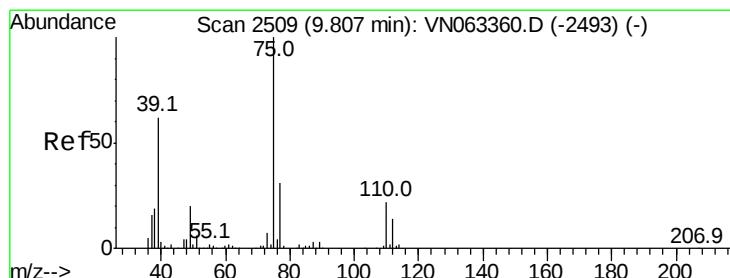
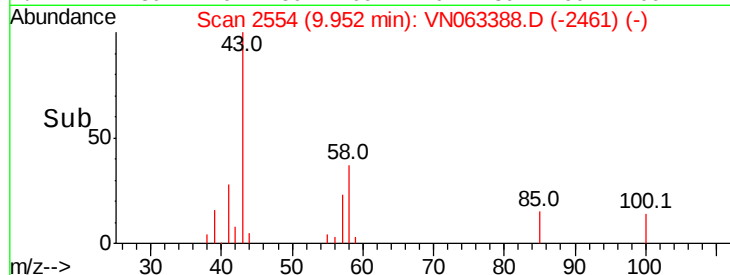
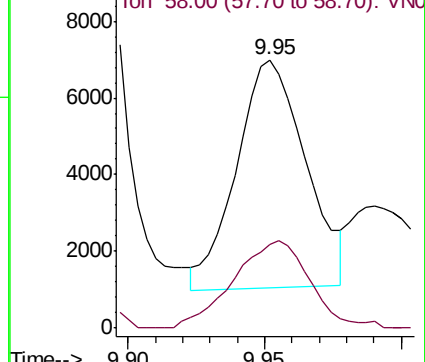
Ion Ratio Lower Upper

43 100

58 42.3 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.927 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

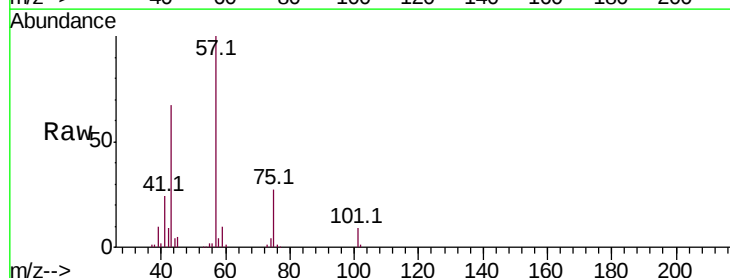
Tgt Ion: 75 Resp: 41455

Ion Ratio Lower Upper

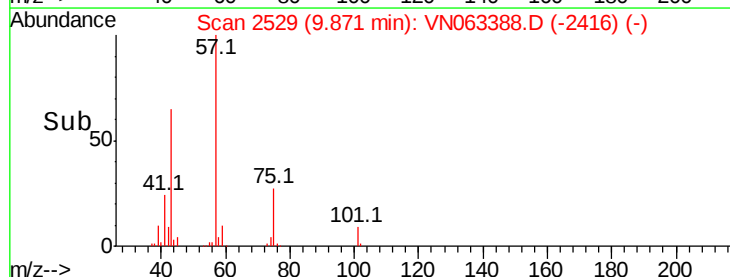
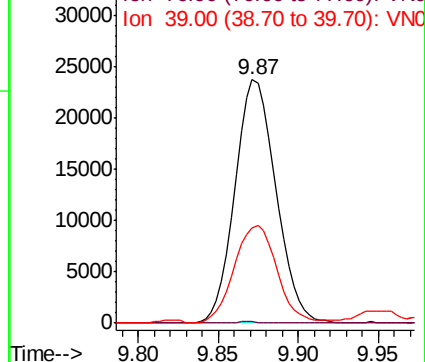
75 100

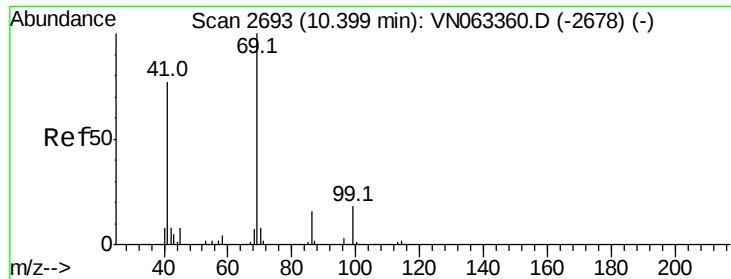
77 0.6 24.6 37.0#

39 39.3 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0





#56

Ethyl methacrylate

Concen: 0.327 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

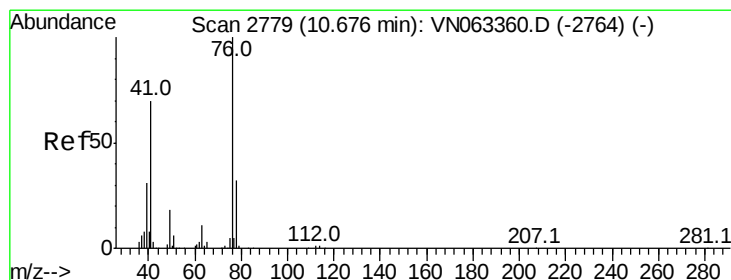
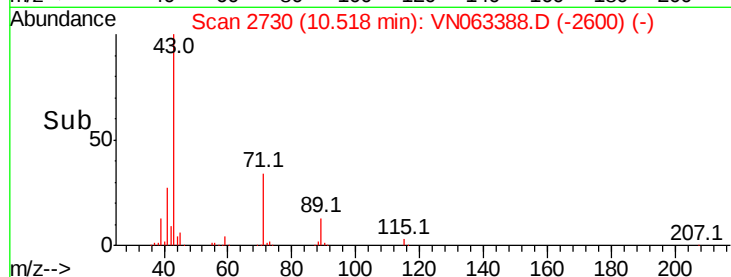
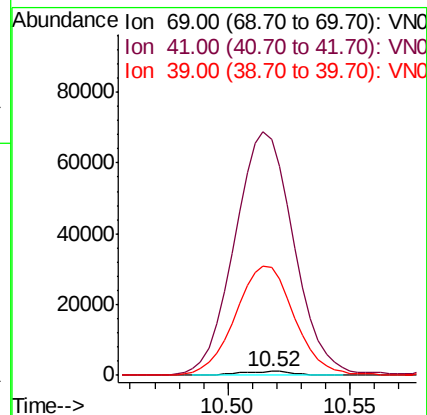
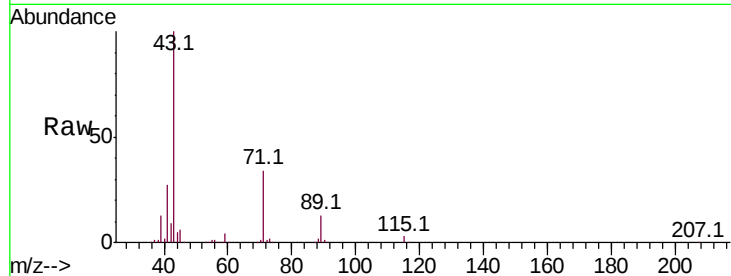
Tot Ion: 69 Resp: 1667

Ion Ratio Lower Upper

69 100

41 6989.7 61.0 91.6#

39 3138.8 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 1.149 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063388.D

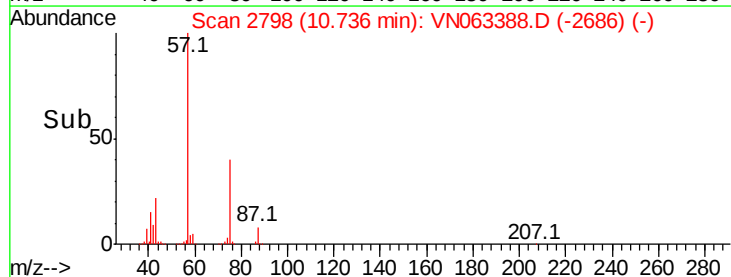
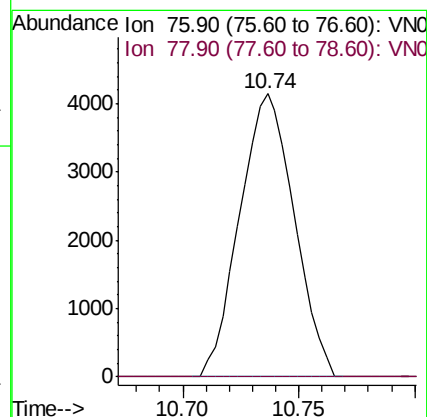
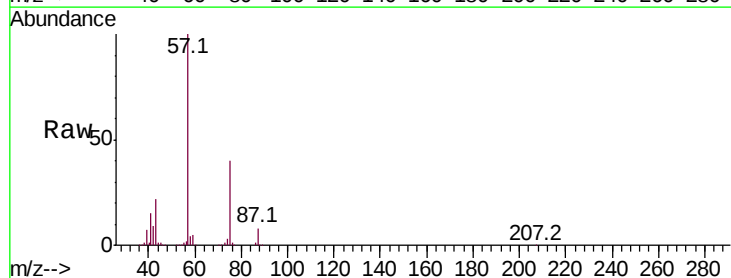
Acq: 17 Sep 2020 1:28

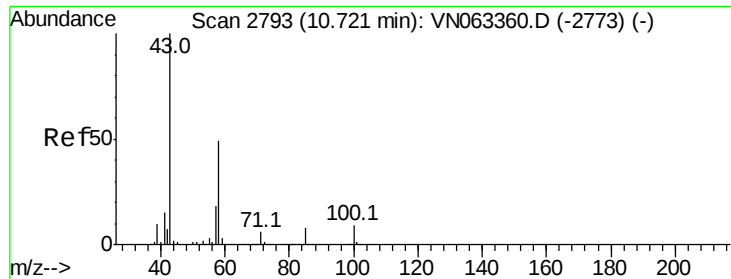
Tgt Ion: 76 Resp: 6764

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 31.855 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

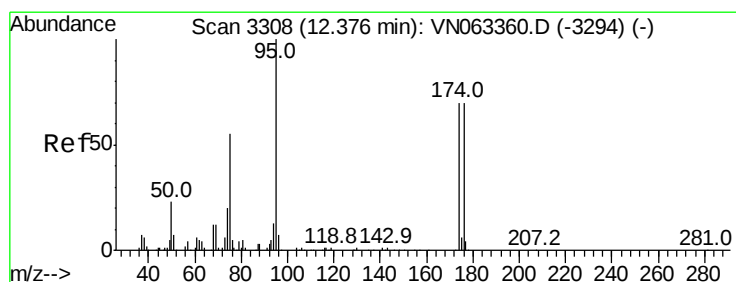
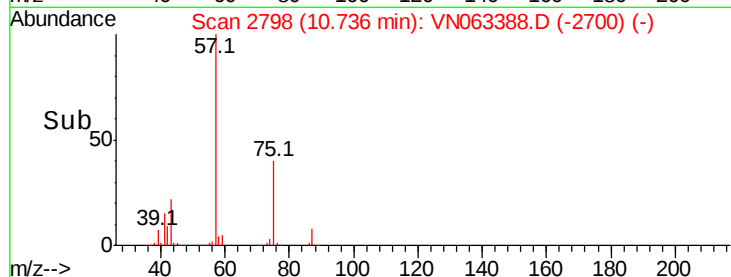
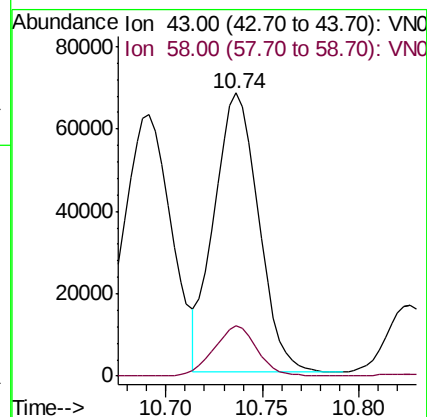
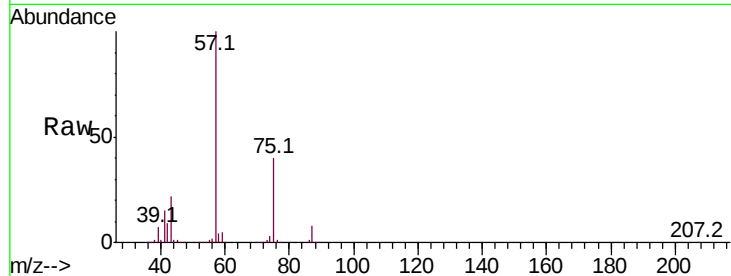
PB131646ZHE#15

Tot Ion: 43 Resp: 108545

Ion Ratio Lower Upper

43 100

58 17.5 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 55.291 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

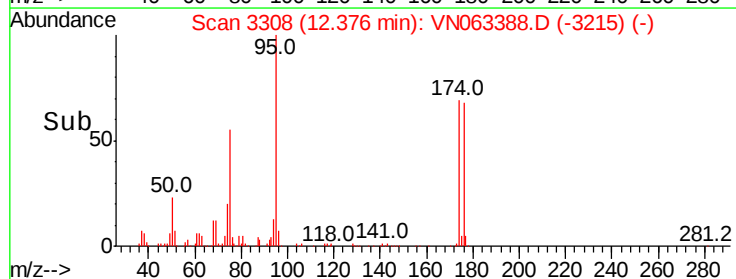
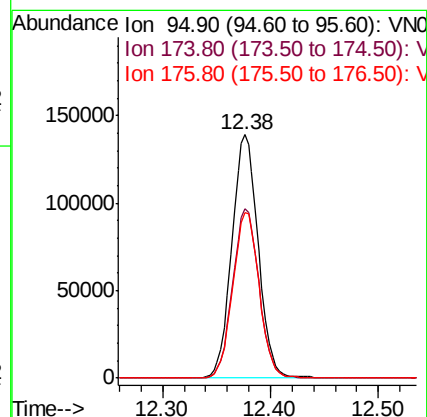
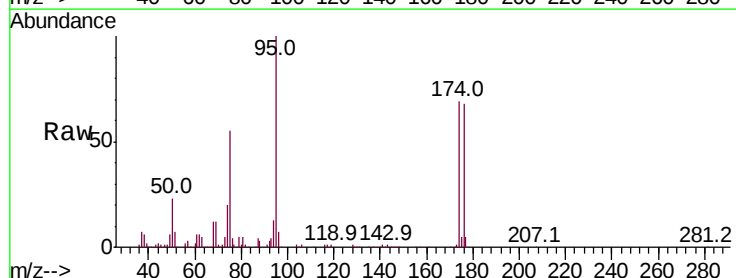
Tgt Ion: 95 Resp: 237087

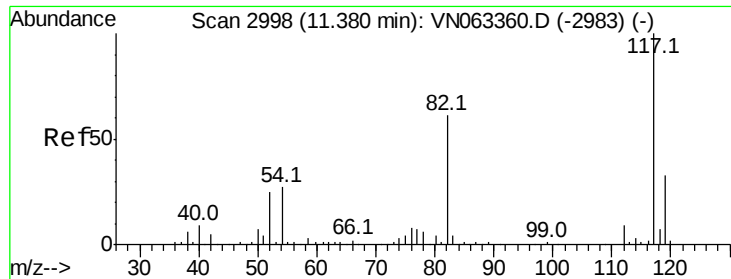
Ion Ratio Lower Upper

95 100

174 69.6 0.0 140.8

176 68.1 0.0 137.6

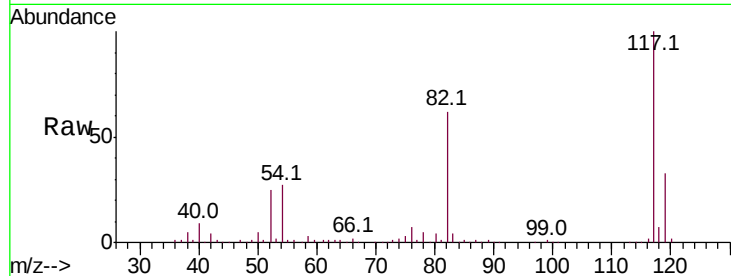




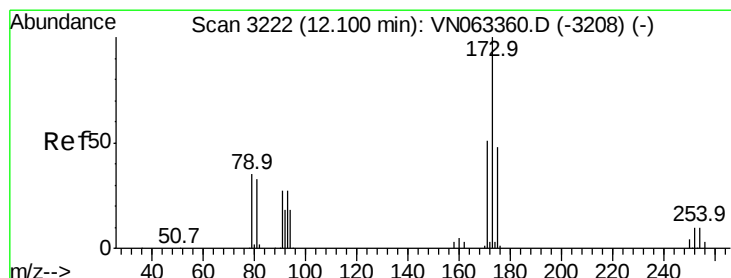
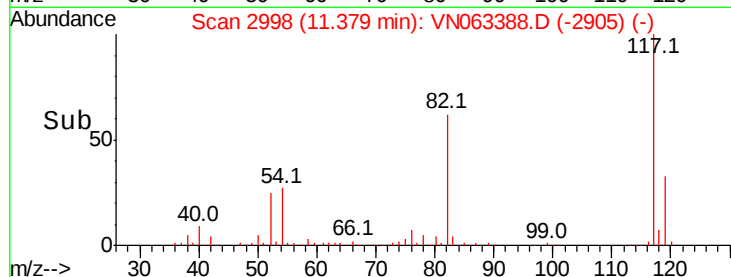
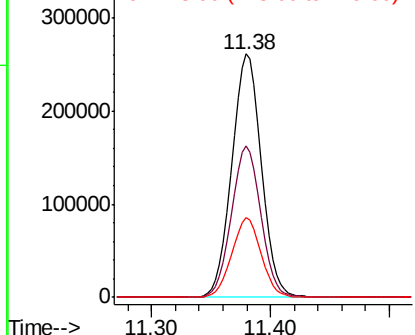
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063388.D
Acq: 17 Sep 2020 1:28

Instrument :
MSVOA_N
ClientSampleId :
PB131646ZHE#15

Tot Ion:117 Resp: 450224
Ion Ratio Lower Upper
117 100
82 62.1 49.2 73.8
119 32.5 26.2 39.4

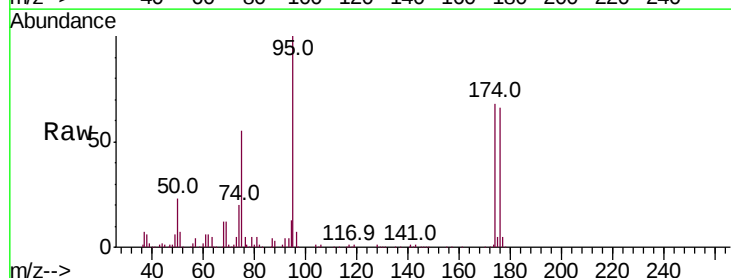


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

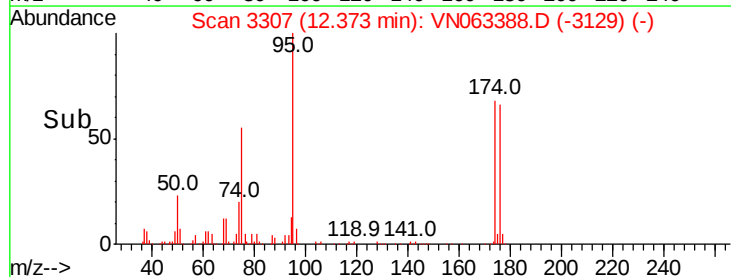
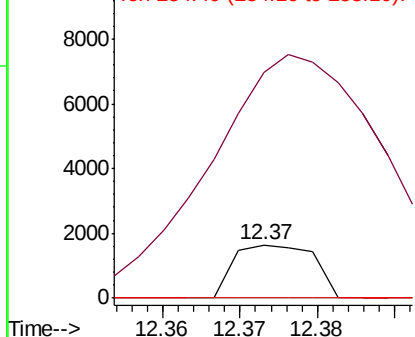


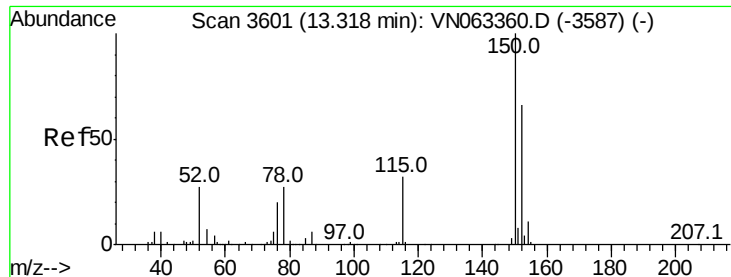
#71
Bromoform
Concen: 0.452 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN063388.D
Acq: 17 Sep 2020 1:28

Tgt Ion:173 Resp: 1179
Ion Ratio Lower Upper
173 100
175 844.5 24.0 72.0#
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# 3601

Delta R.T. -0.00 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

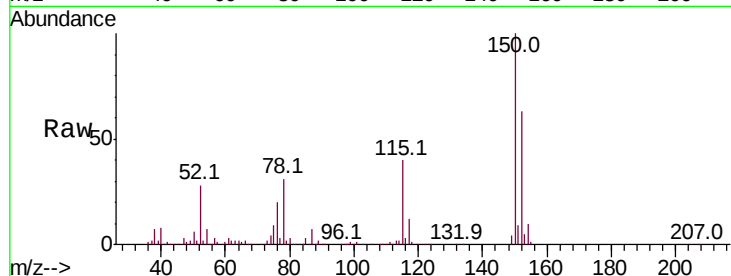
Tot Ion:152 Resp: 194236

Ion Ratio Lower Upper

152 100

115 62.6 32.2 96.6

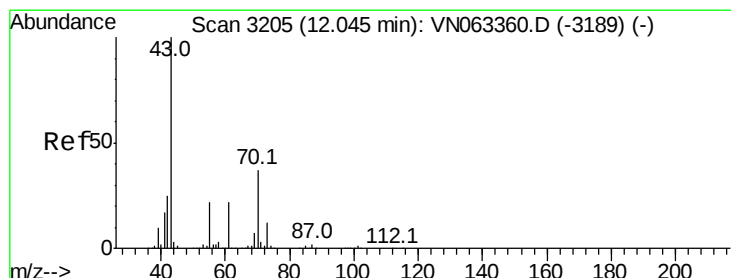
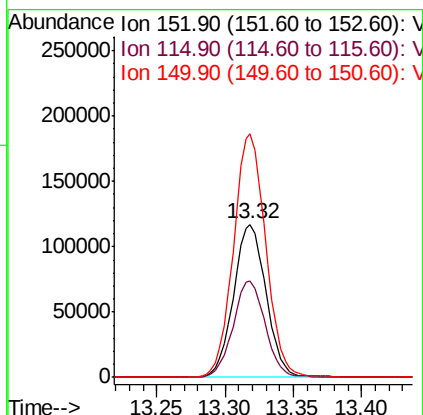
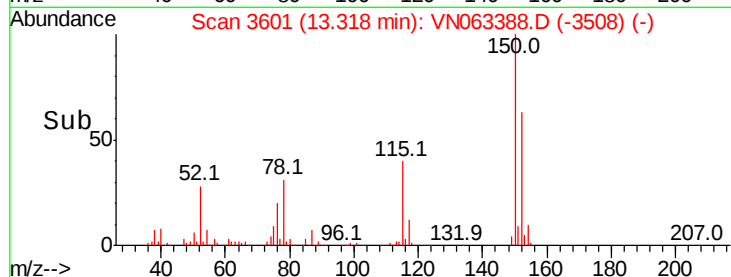
150 158.2 0.0 343.4



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: 0.521 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Tgt Ion: 43 Resp: 3836

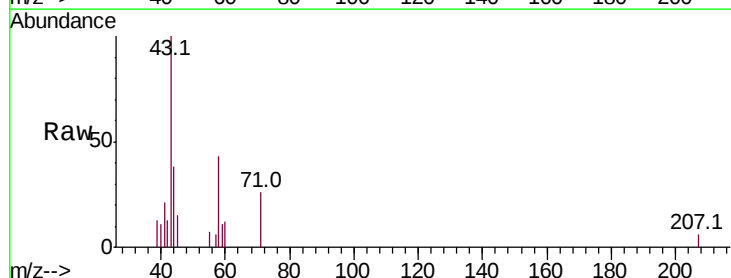
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 15.9 17.7 26.5#

61 0.0 17.4 26.2#

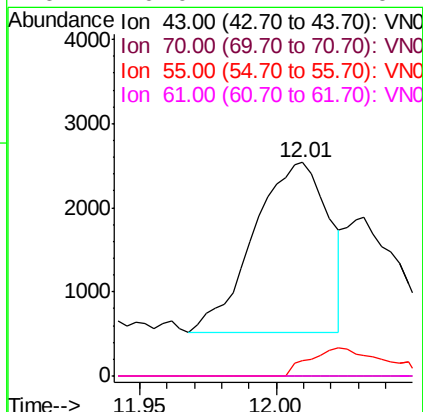
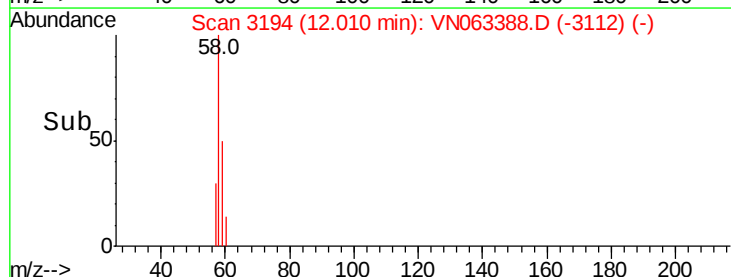


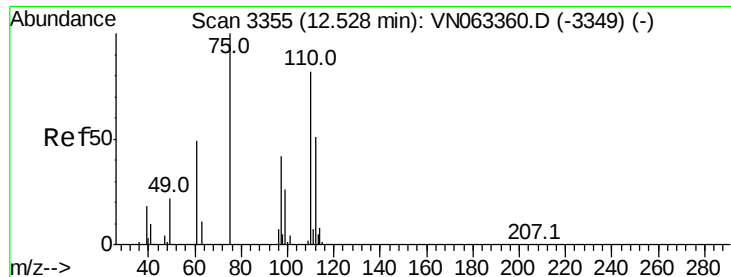
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 27.117 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

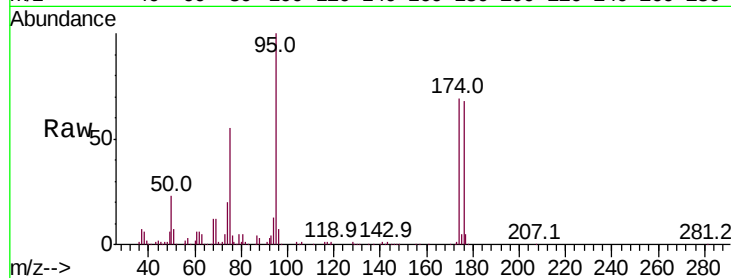
PB131646ZHE#15

Tot Ion: 75 Resp: 130368

Ion Ratio Lower Upper

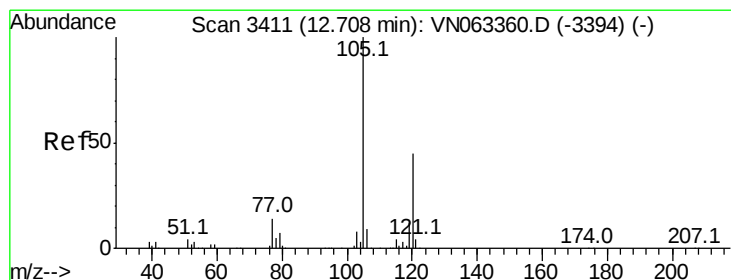
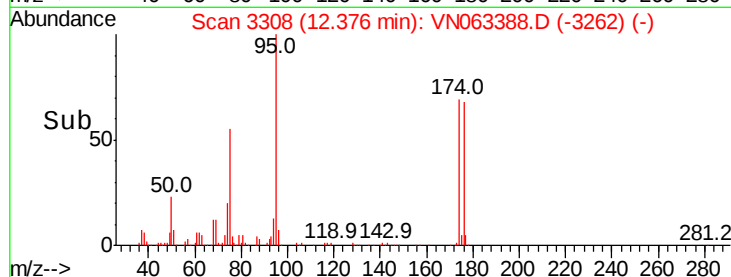
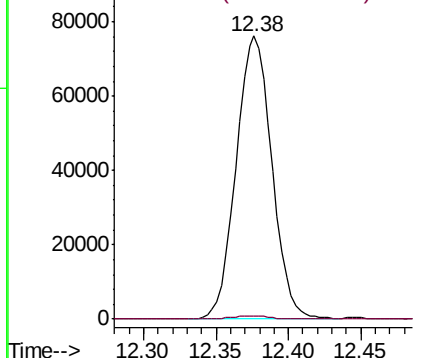
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.338 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063388.D

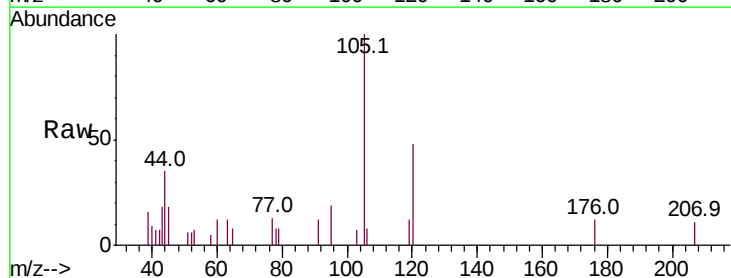
Acq: 17 Sep 2020 1:28

Tgt Ion: 105 Resp: 4381

Ion Ratio Lower Upper

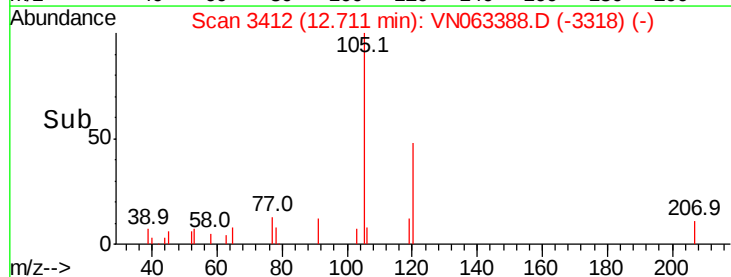
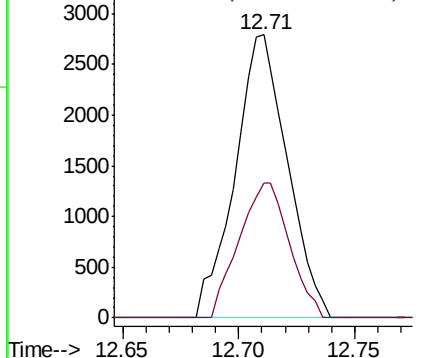
105 100

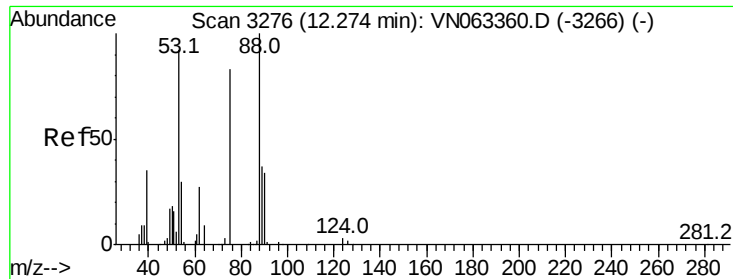
120 45.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.345 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063388.D

Acq: 17 Sep 2020 1:28

Instrument :

MSVOA_N

ClientSampleId :

PB131646ZHE#15

Tot Ion: 75 Resp: 130368

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

