

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\
 Data File : VN063614.D
 Acq On : 24 Sep 2020 2:29
 Operator : JC/MD
 Sample : PB131813ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131813ZHE#13

Quant Time: Sep 24 05:04:20 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	211155	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	404811	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	421733	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177968	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	181877	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
35) Dibromofluoromethane	7.55	113	131125	46.79	ug/l	0.00
Spiked Amount			Recovery	=	93.58%	
50) Toluene-d8	10.06	98	527882	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	
62) 4-Bromofluorobenzene	12.38	95	211404	54.73	ug/l	0.00
Spiked Amount			Recovery	=	109.46%	

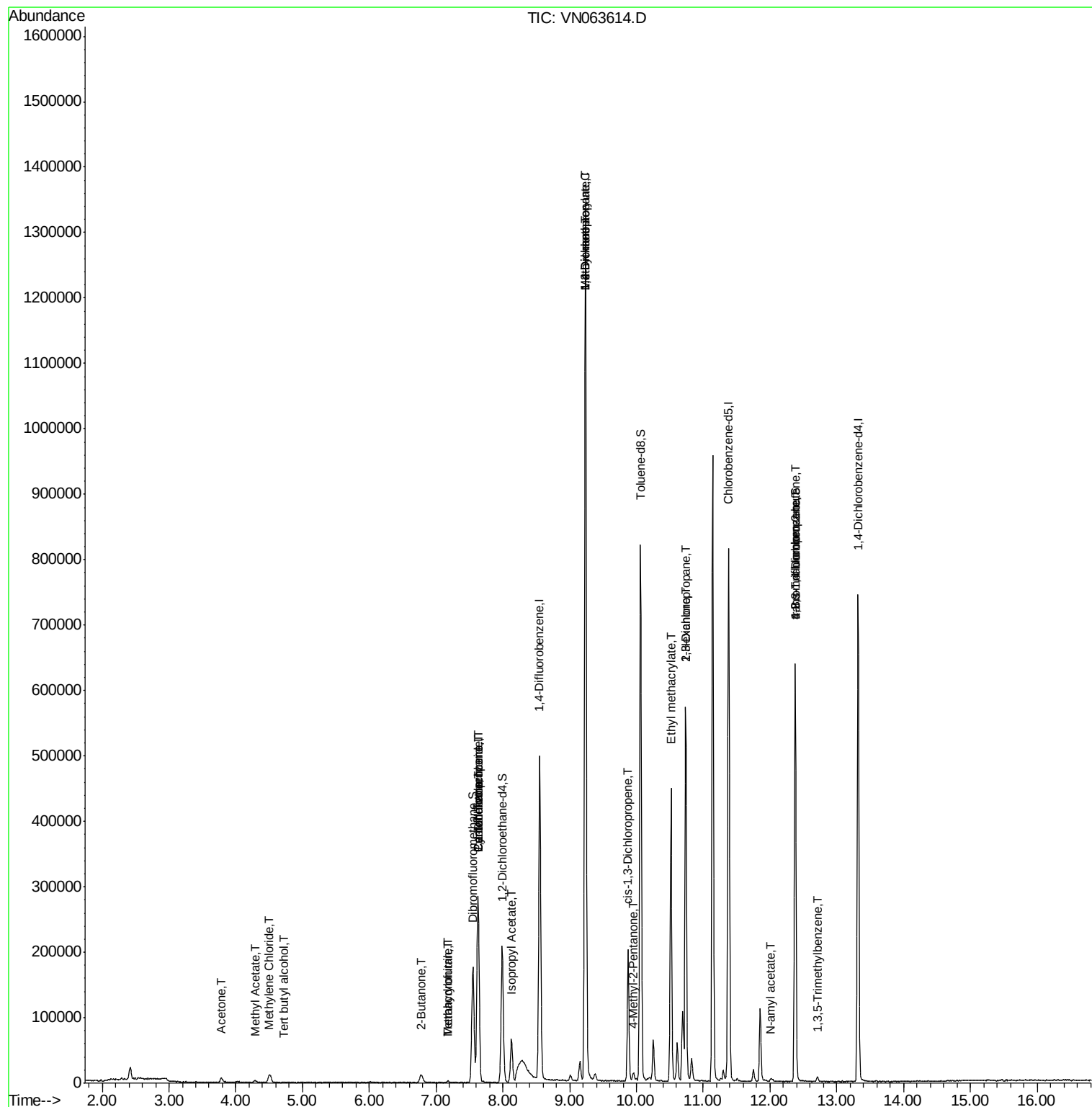
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	270	0.542	ug/l #	72
16) Acetone	3.78	43	11108	9.616	ug/l	100
18) Methyl Acetate	4.29	43	2506	0.855	ug/l	94
20) Methylene Chloride	4.51	84	8936	3.053	ug/l	93
25) 2-Butanone	6.78	43	1503	0.846	ug/l #	51
29) Tetrahydrofuran	7.17	42	1338	1.103	ug/l #	77
31) Cyclohexane	7.62	56	5601	1.128	ug/l #	10
36) 1,1-Dichloropropene	7.63	75	19731	4.575	ug/l #	51
38) Carbon Tetrachloride	7.63	117	23487	5.335	ug/l #	18
41) Methacrylonitrile	7.18	41	854	0.449	ug/l #	100
43) Isopropyl Acetate	8.13	43	80327	10.613	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1913	0.571	ug/l #	43
48) Methyl methacrylate	9.24	41	137643	37.016	ug/l #	49
49) 1,4-Dioxane	9.24	88	30	0.562	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9646	2.277	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	33409	6.197	ug/l #	68
56) Ethyl methacrylate	10.51	69	1871	0.408	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5557	1.048	ug/l #	42
59) 2-Hexanone	10.74	43	91714	29.877	ug/l #	54
74) N-amyl acetate	12.01	43	3233	0.479	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	121549	27.594	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3928	0.330	ug/l	65
81) trans-1,4-Dichloro-2-buten	12.38	75	121549	75.651	ug/l #	7

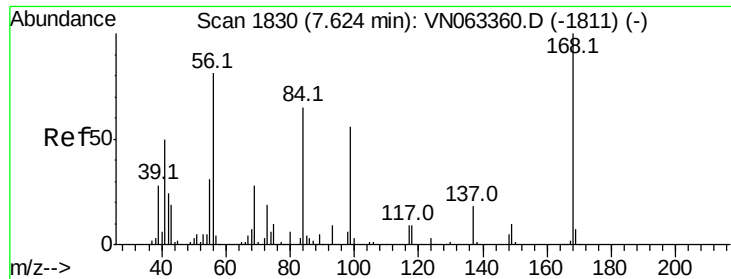
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

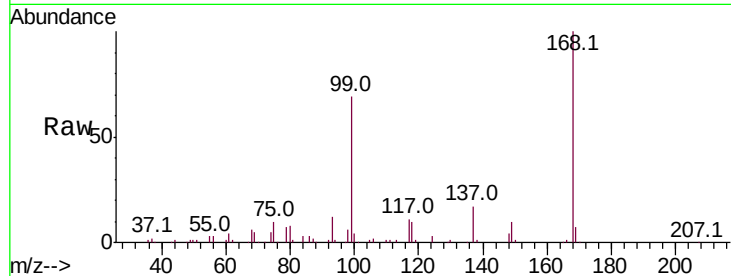
PB131813ZHE#13

Tot Ion:168 Resp: 211155

Ion Ratio Lower Upper

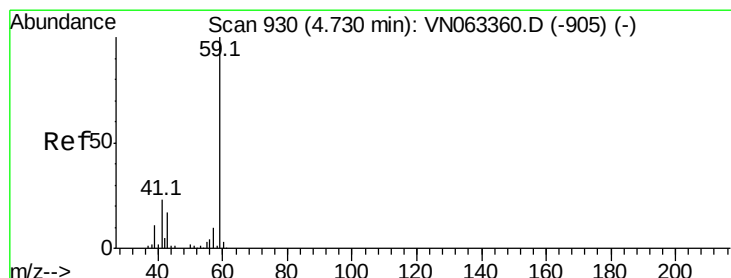
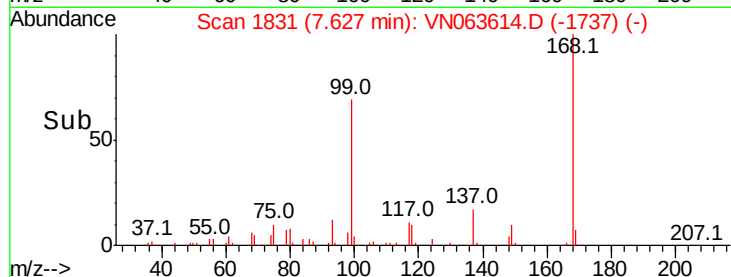
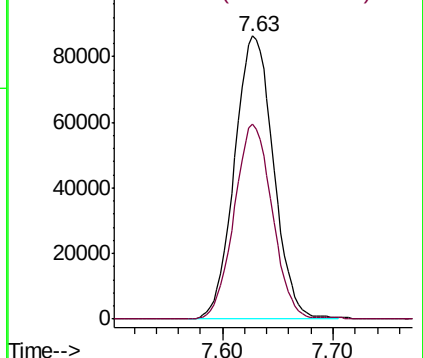
168 100

99 69.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.542 ug/l

RT: 4.72 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN063614.D

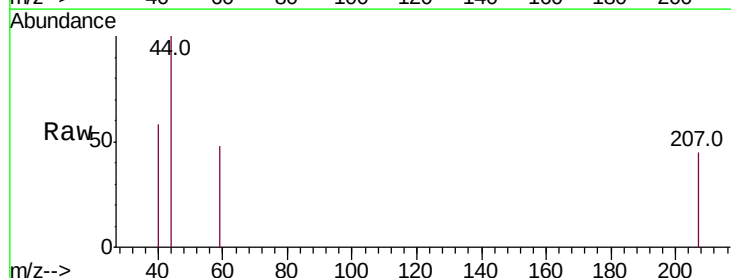
Acq: 24 Sep 2020 2:29

Tgt Ion: 59 Resp: 270

Ion Ratio Lower Upper

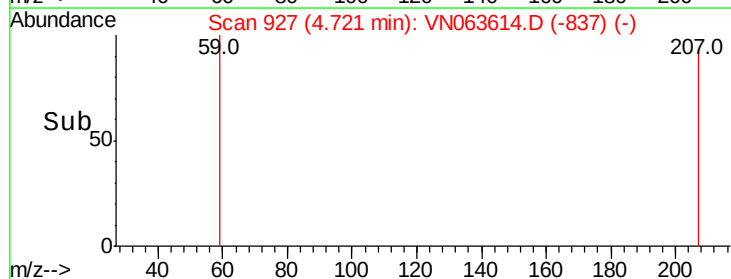
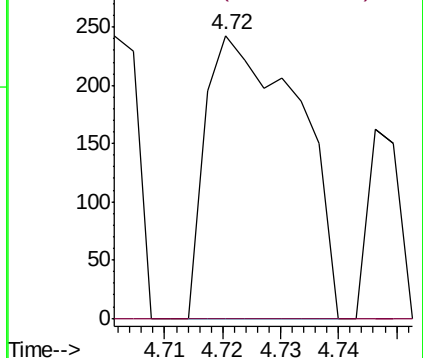
59 100

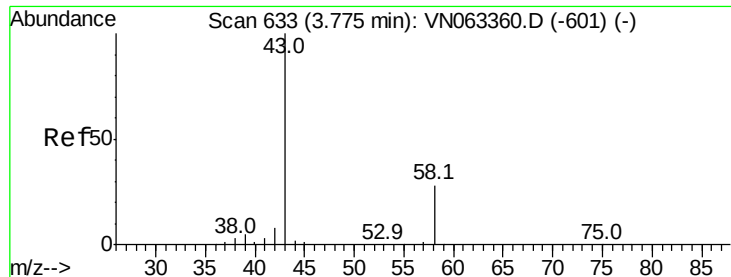
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 9.616 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

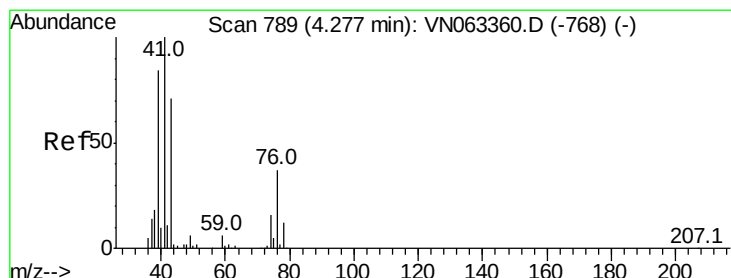
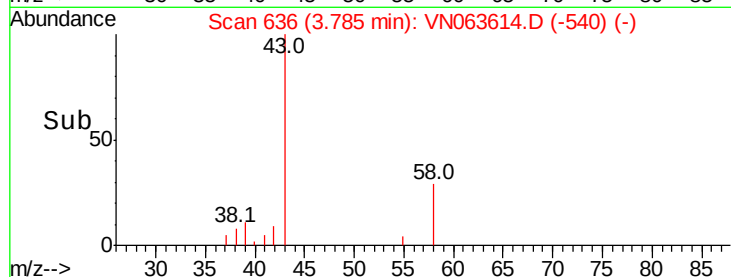
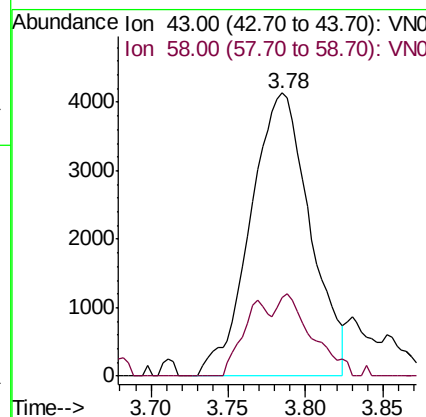
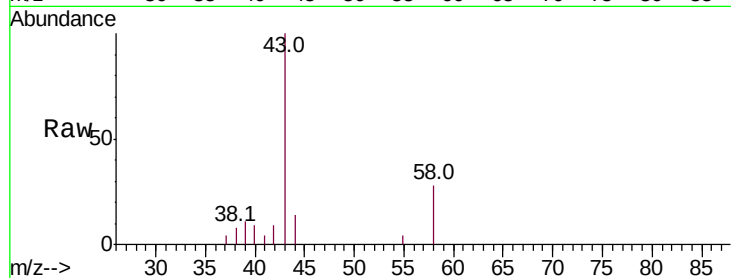
PB131813ZHE#13

Tot Ion: 43 Resp: 11108

Ion Ratio Lower Upper

43 100

58 28.0 22.3 33.5



#18

Methyl Acetate

Concen: 0.855 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN063614.D

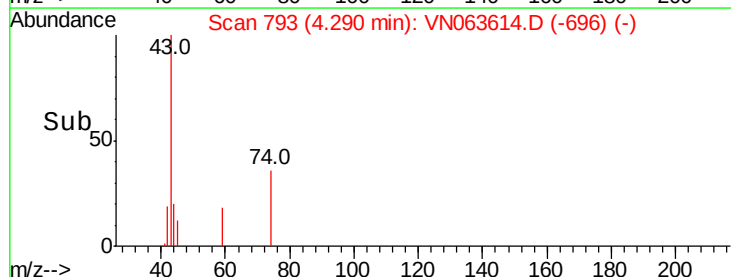
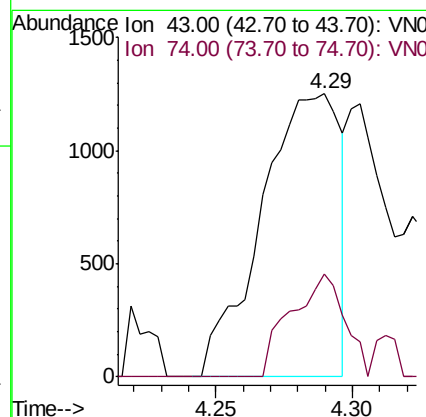
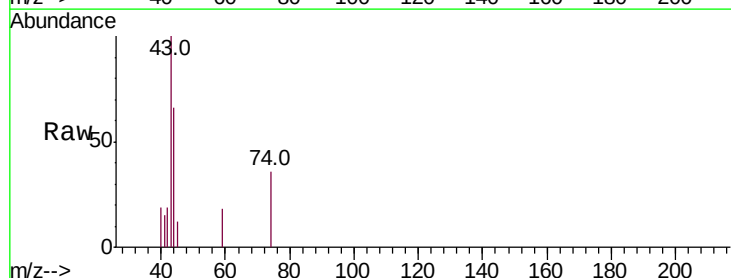
Acq: 24 Sep 2020 2:29

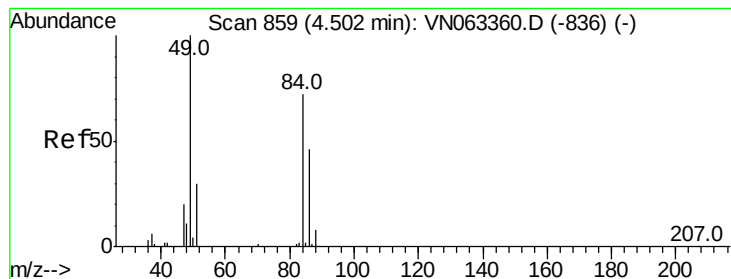
Tgt Ion: 43 Resp: 2506

Ion Ratio Lower Upper

43 100

74 24.7 17.4 26.2





#20

Methvlene Chloride

Concen: 3.053 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

Tot Ion: 84 Resp: 8936

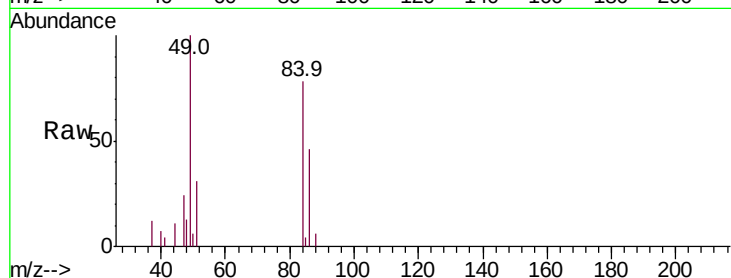
Ion Ratio Lower Upper

84 100

49 128.4 110.7 166.1

51 40.0 32.9 49.3

86 59.4 51.1 76.7

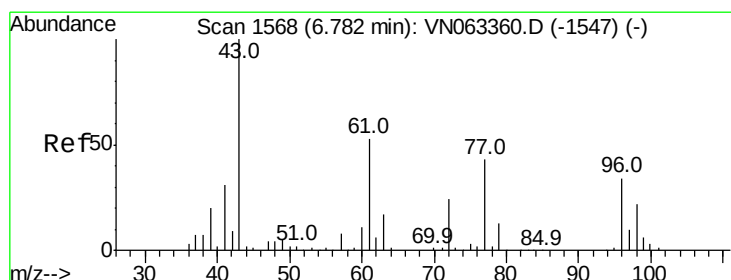
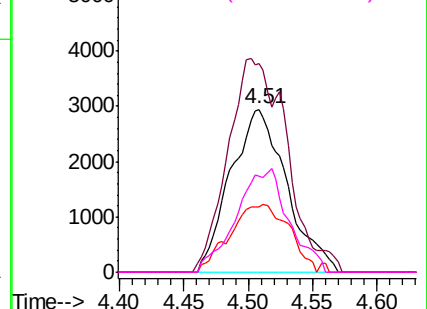
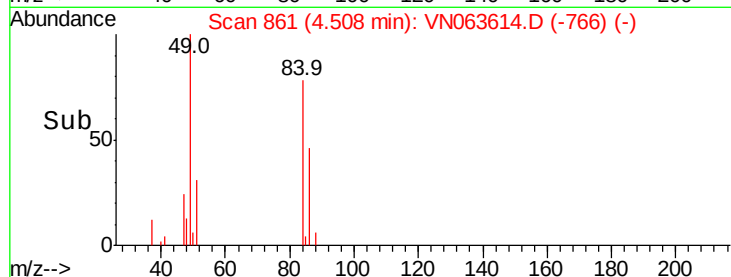


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 0.846 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN063614.D

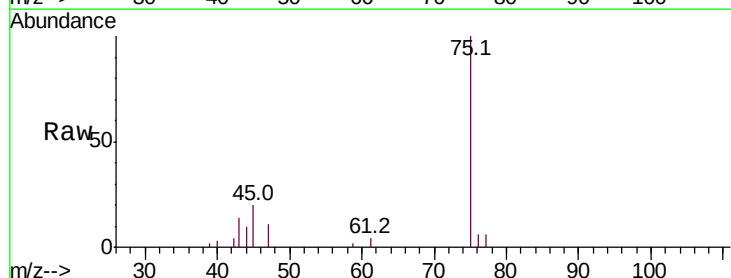
Acq: 24 Sep 2020 2:29

Tgt Ion: 43 Resp: 1503

Ion Ratio Lower Upper

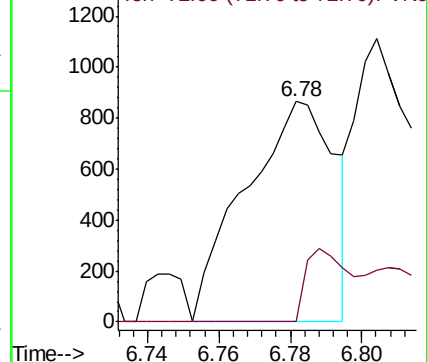
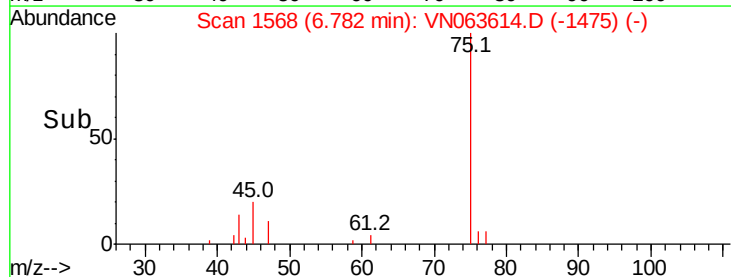
43 100

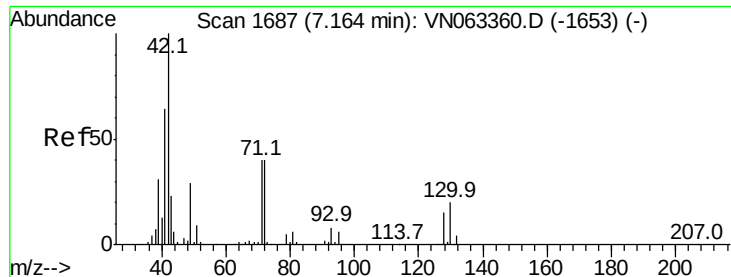
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.103 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

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ClientSampleId :

PB131813ZHE#13

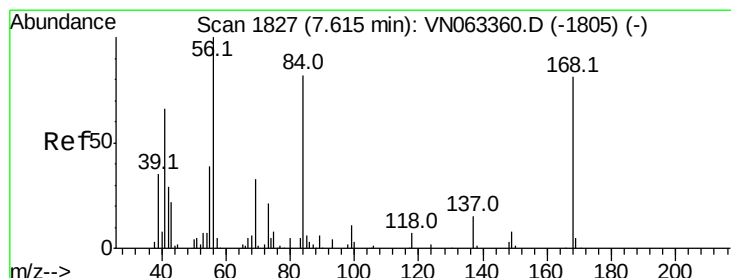
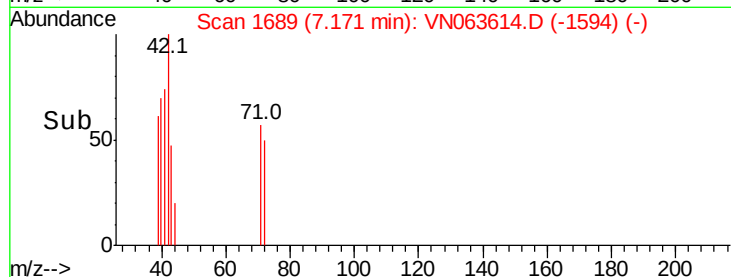
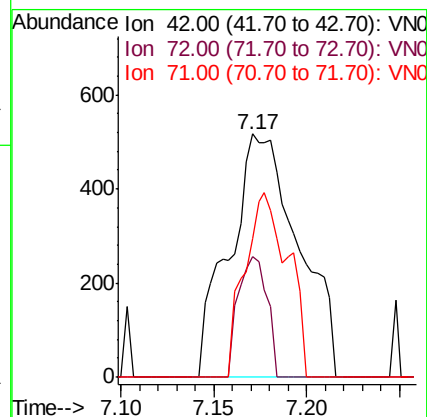
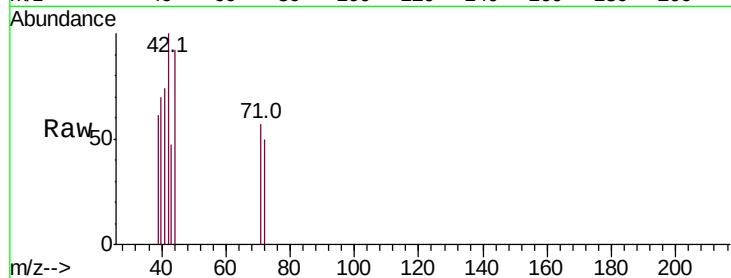
Tot Ion: 42 Resp: 1338

Ion Ratio Lower Upper

42 100

72 20.4 32.1 48.1#

71 47.2 31.2 46.8#



#31

Cyclohexane

Concen: 1.128 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

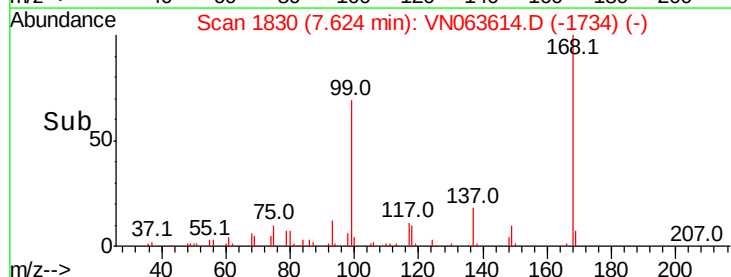
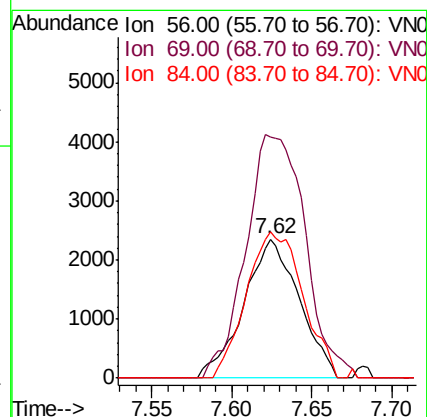
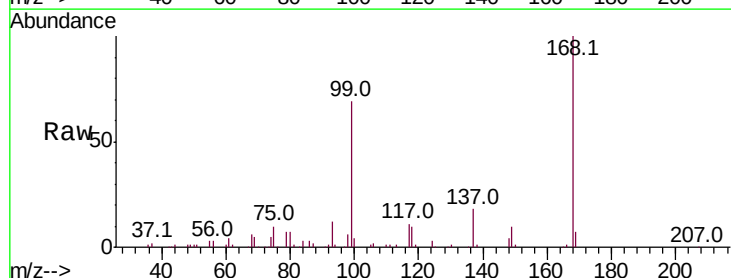
Tgt Ion: 56 Resp: 5601

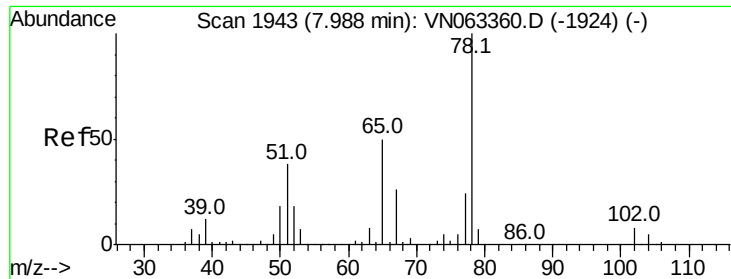
Ion Ratio Lower Upper

56 100

69 173.2 26.1 39.1#

84 104.7 65.4 98.2#

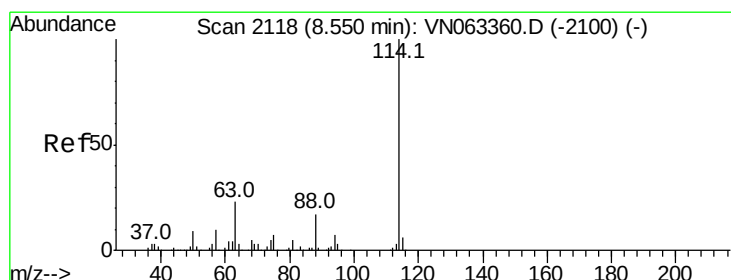
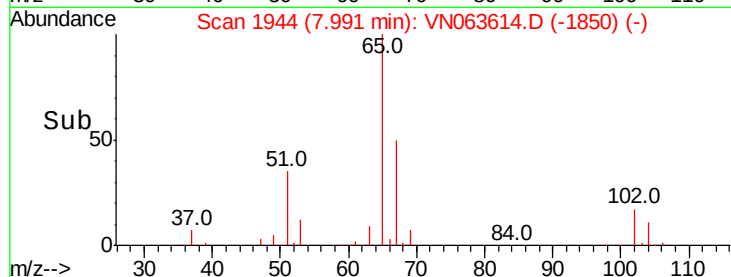
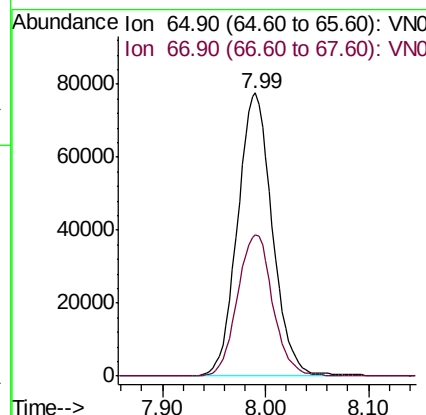
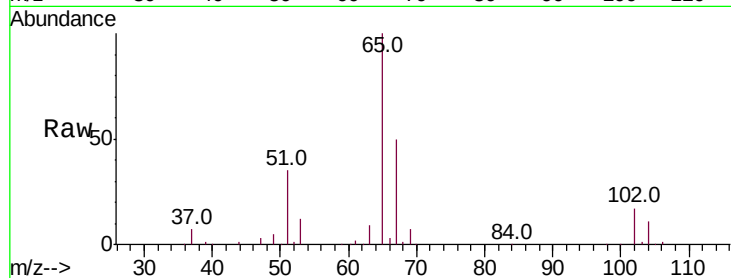




#33
 1,2-Dichloroethane-d4
 Concen: 50.600 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN063614.D
 Acq: 24 Sep 2020 2:29

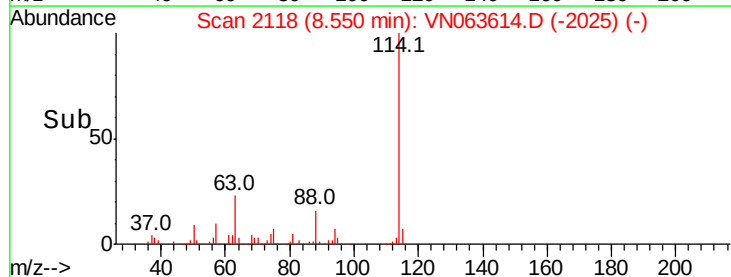
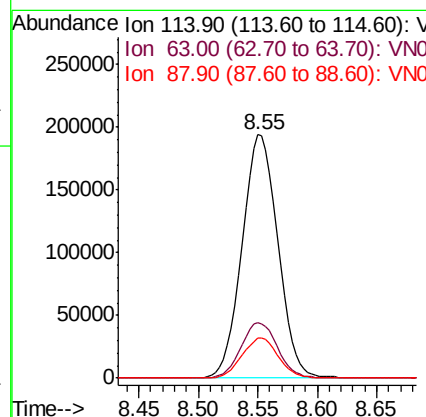
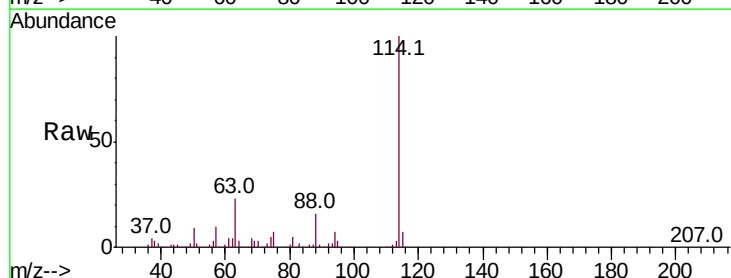
Instrument :
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 PB131813ZHE#13

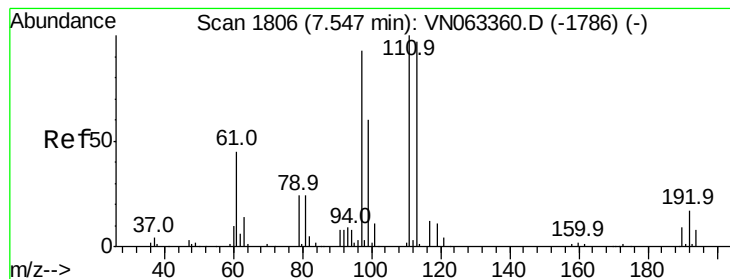
Tot Ion: 65 Resp: 181877
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063614.D
 Acq: 24 Sep 2020 2:29

Tgt Ion: 114 Resp: 404811
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.4
 88 16.3 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.790 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

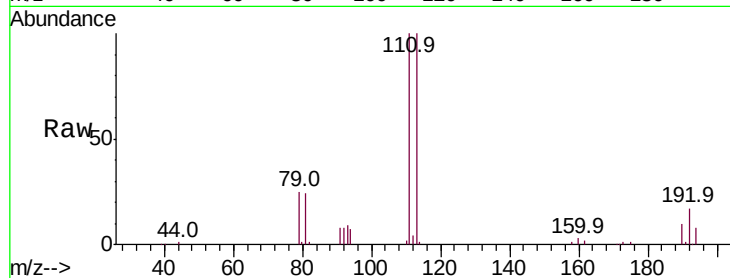
Tot Ion:113 Resp: 131125

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

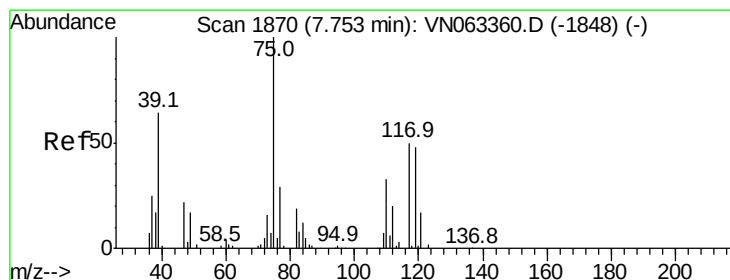
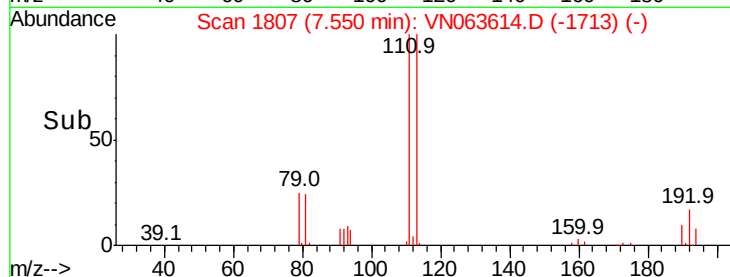
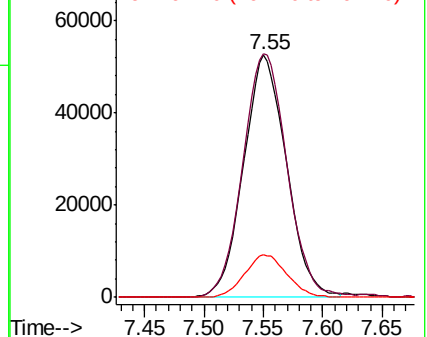
192 17.3 13.9 20.9



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: 4.575 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

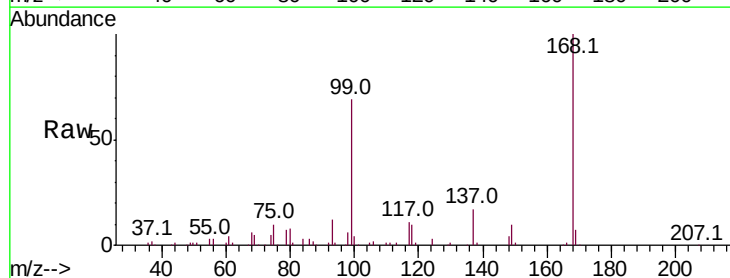
Tgt Ion: 75 Resp: 19731

Ion Ratio Lower Upper

75 100

110 9.5 16.5 49.5#

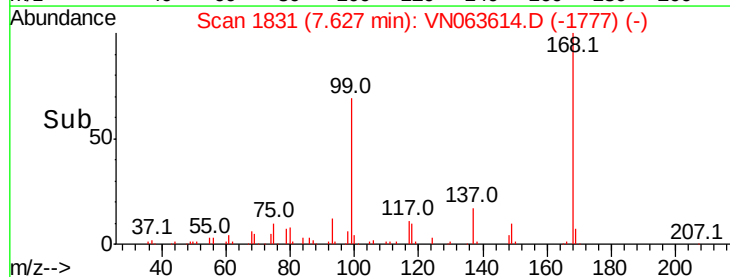
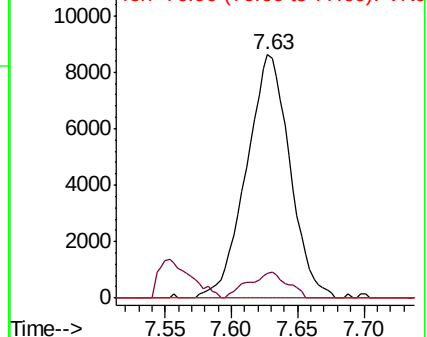
77 0.0 24.6 36.8#

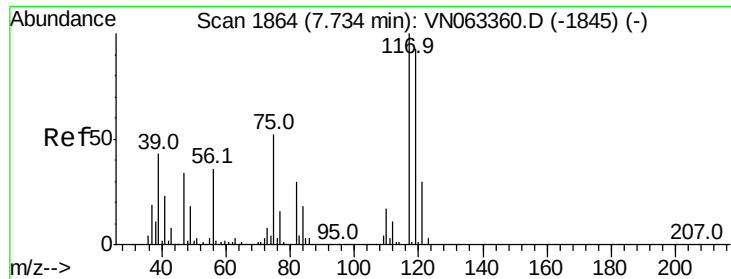


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.335 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

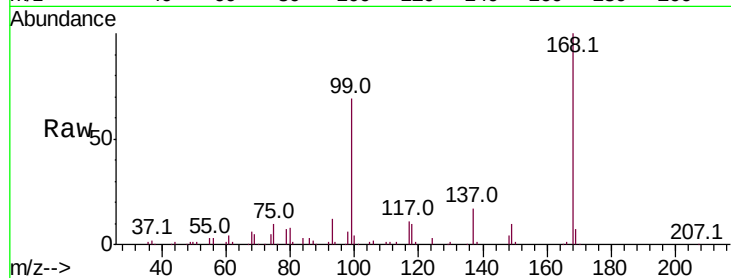
Tot Ion:117 Resp: 23487

Ion Ratio Lower Upper

117 100

119 6.1 74.5 111.7#

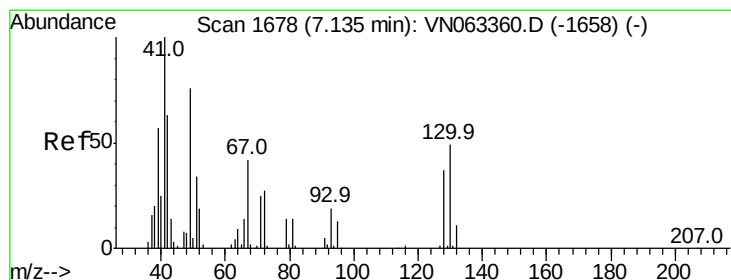
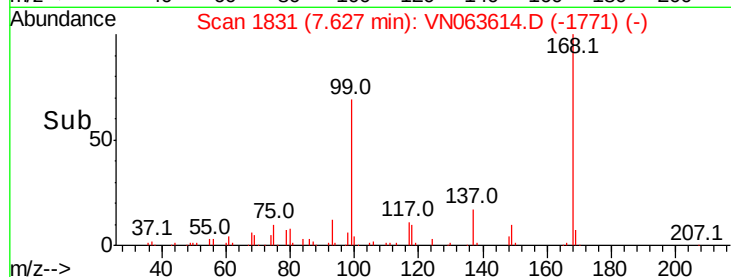
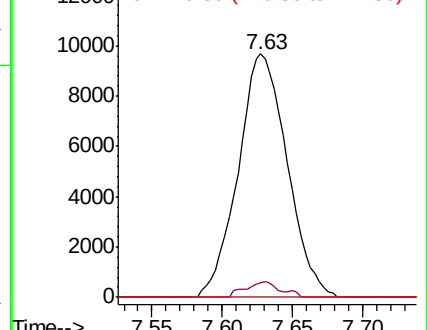
121 0.0 24.1 36.1#



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: 0.449 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.04 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Tgt Ion: 41 Resp: 854

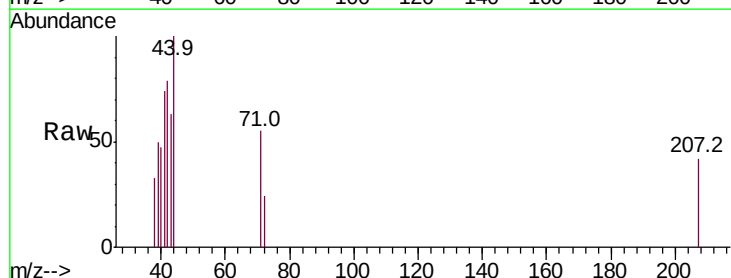
Ion Ratio Lower Upper

41 100

39 19.1 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

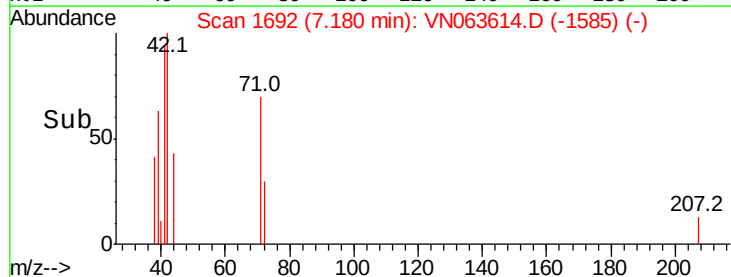
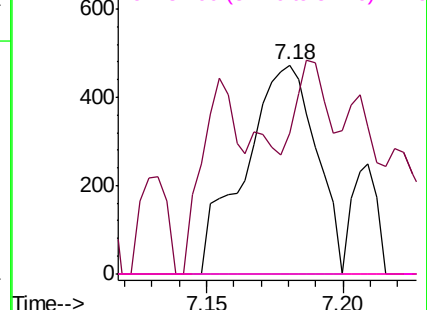


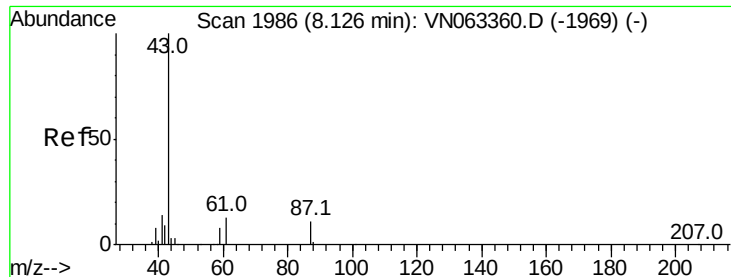
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#43

Isopropyl Acetate

Concen: 10.613 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

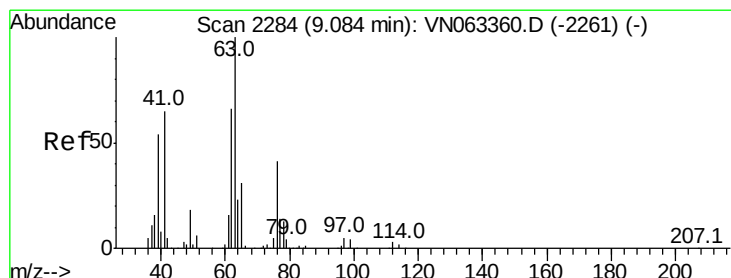
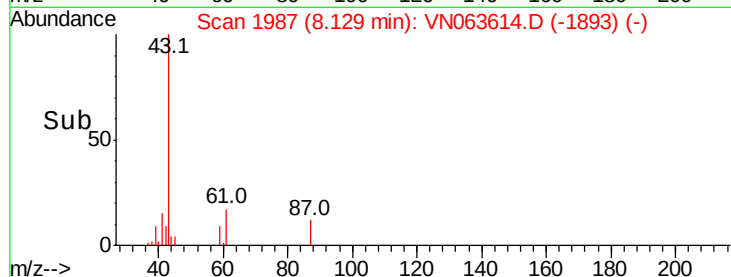
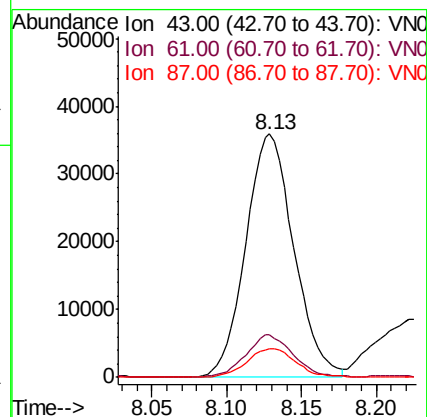
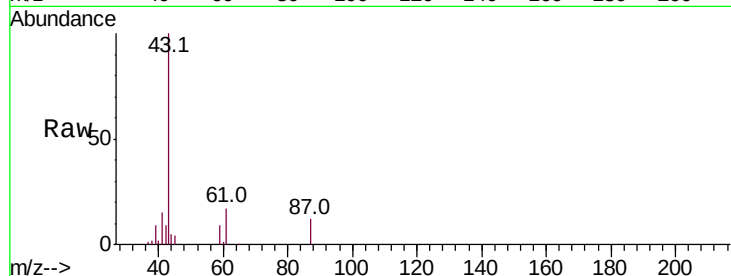
Tot Ion: 43 Resp: 80327

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.2

87 11.9 9.0 13.6



#45

1,2-Dichloropropane

Concen: 0.571 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN063614.D

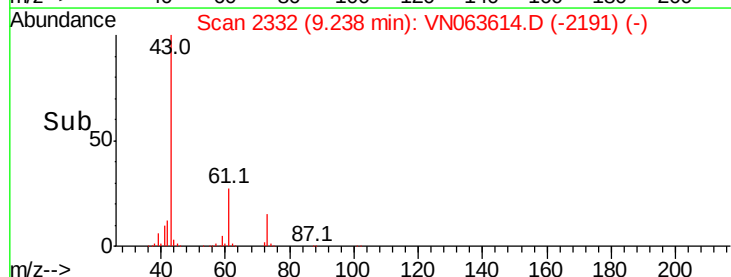
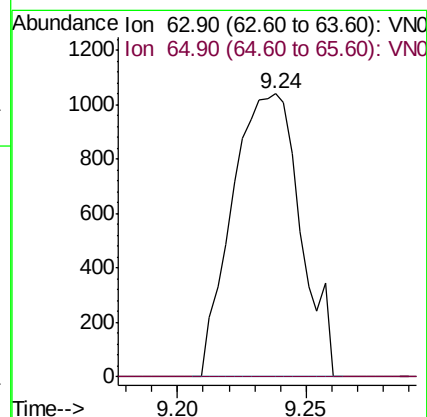
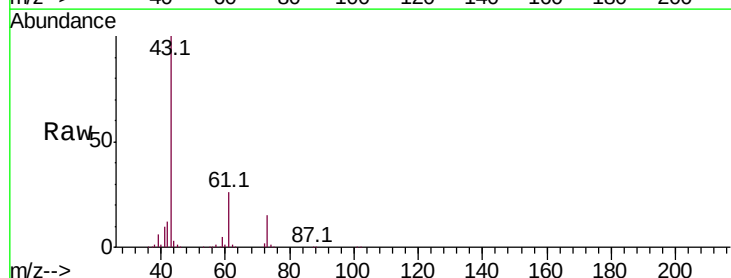
Acq: 24 Sep 2020 2:29

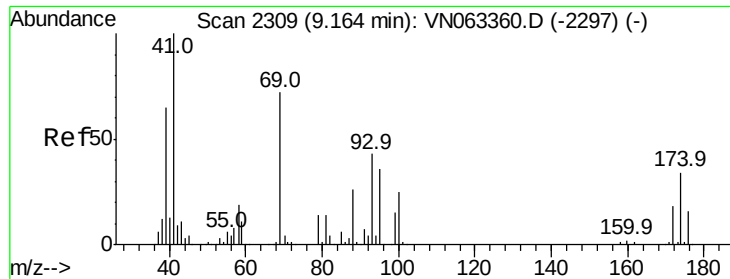
Tgt Ion: 63 Resp: 1913

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#





#48

Methyl methacrylate

Concen: 37.016 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

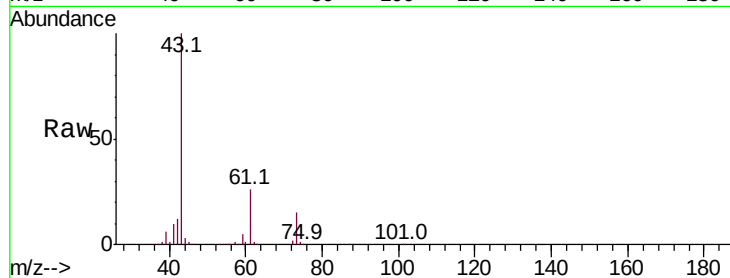
Tot Ion: 41 Resp: 137643

Ion Ratio Lower Upper

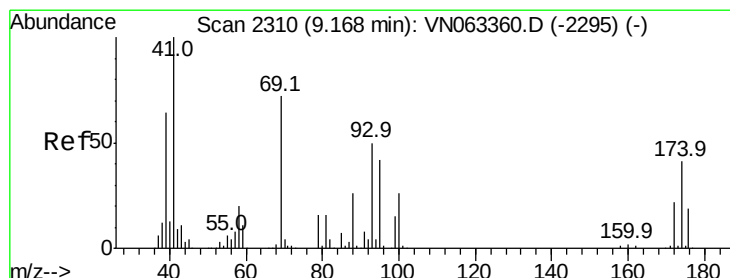
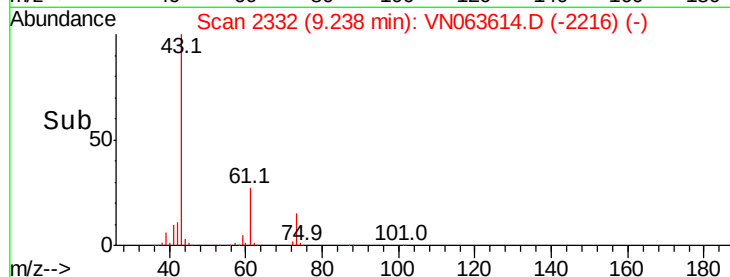
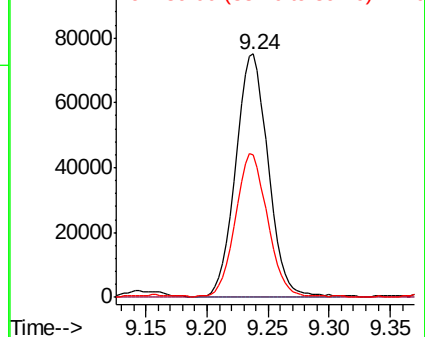
41 100

69 0.0 59.3 88.9#

39 58.0 52.9 79.3



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



#49

1,4-Dioxane

Concen: 0.562 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

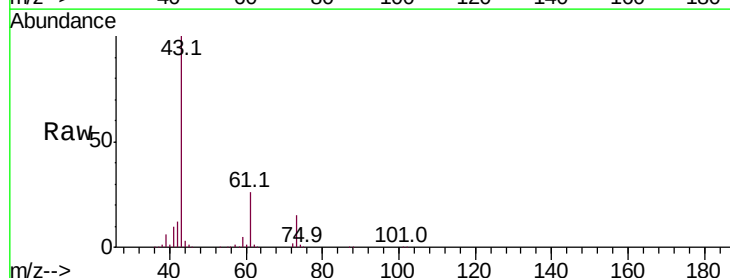
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

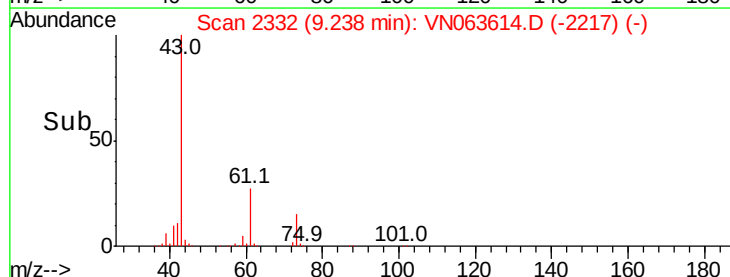
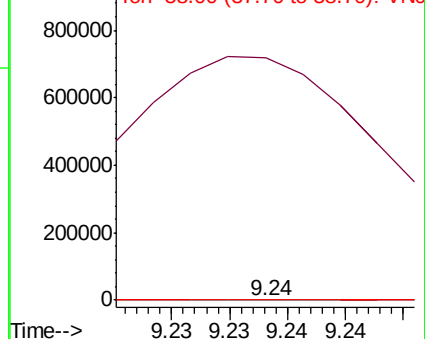
88 100

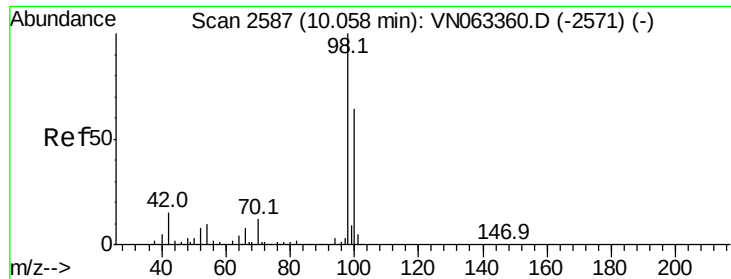
43 4438090.0 32.6 49.0#

58 18803.3 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 50.095 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

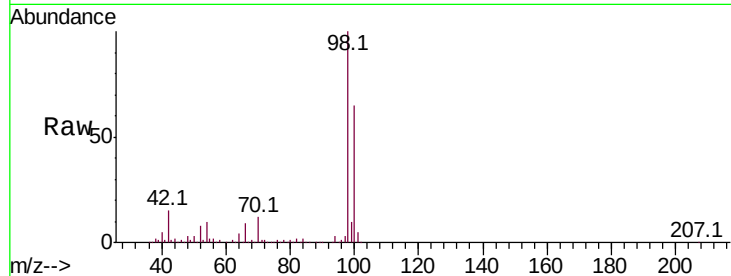
PB131813ZHE#13

Tot Ion: 98 Resp: 527882

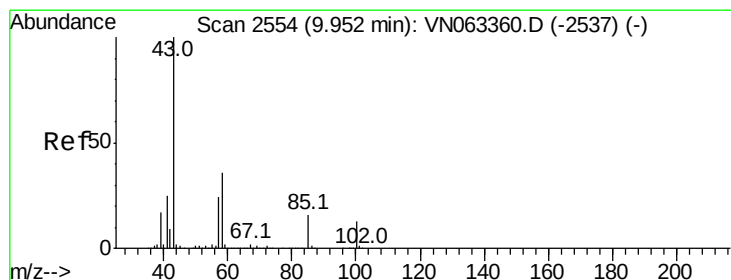
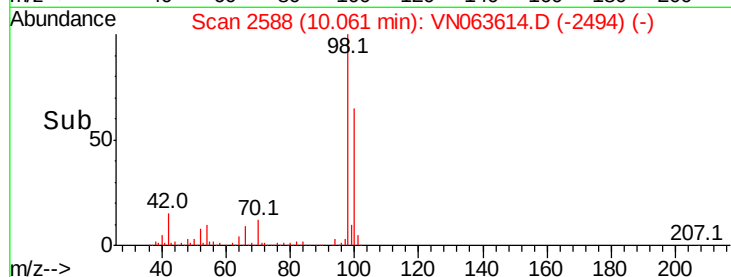
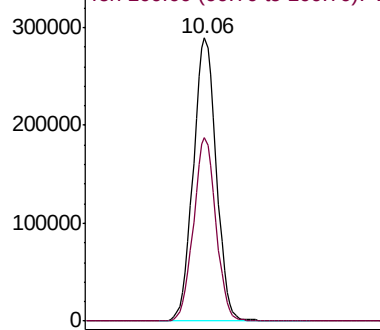
Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



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



#51

4-Methyl-2-Pentanone

Concen: 2.277 ug/l

RT: 9.96 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN063614.D

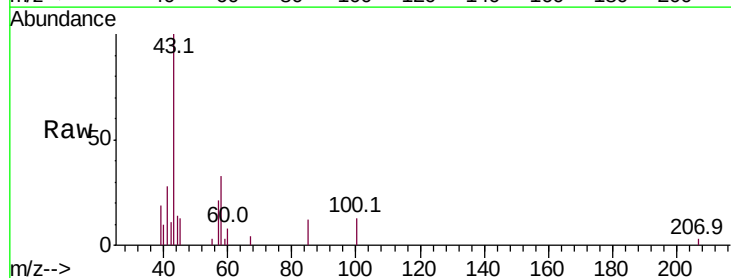
Acq: 24 Sep 2020 2:29

Tgt Ion: 43 Resp: 9646

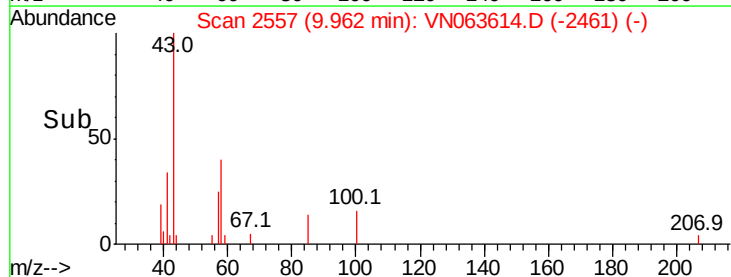
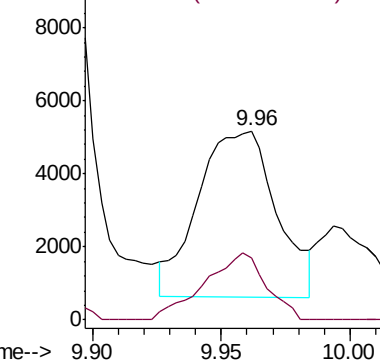
Ion Ratio Lower Upper

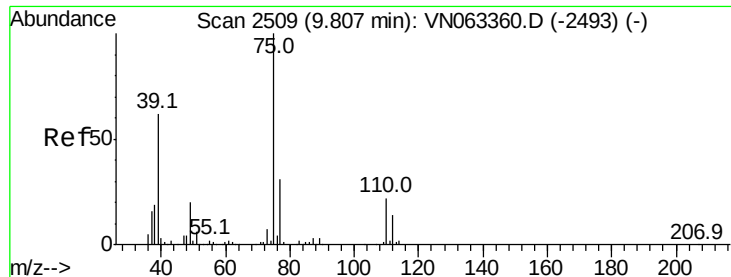
43 100

58 31.8 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.197 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

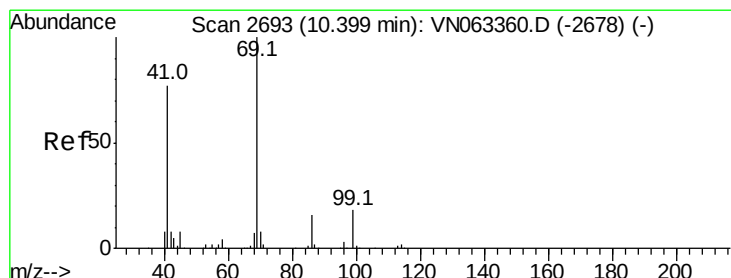
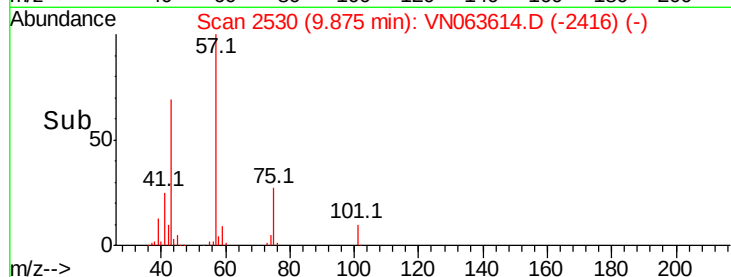
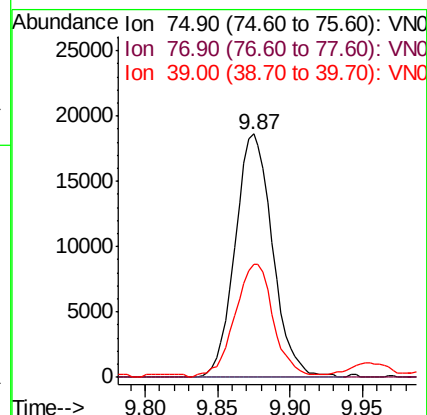
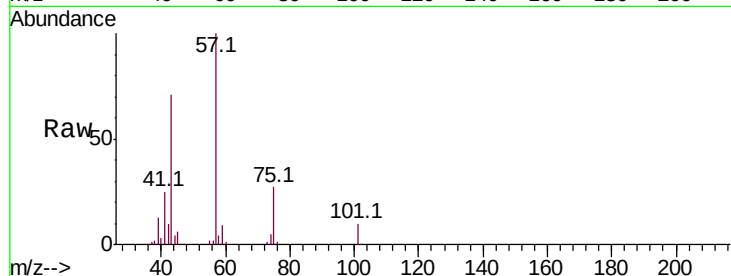
Tot Ion: 75 Resp: 33409

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

39 46.6 49.8 74.8#



#56

Ethyl methacrylate

Concen: 0.408 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

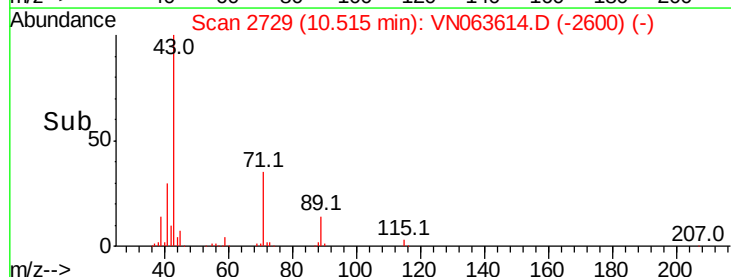
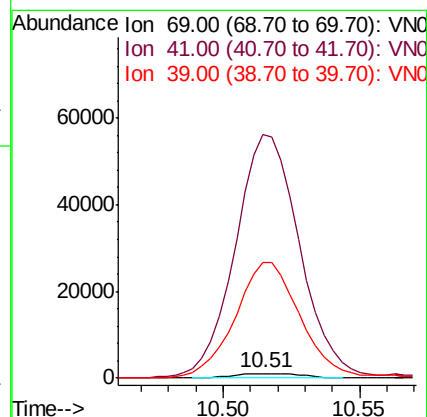
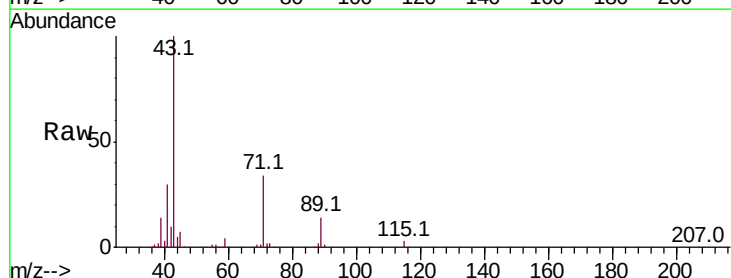
Tgt Ion: 69 Resp: 1871

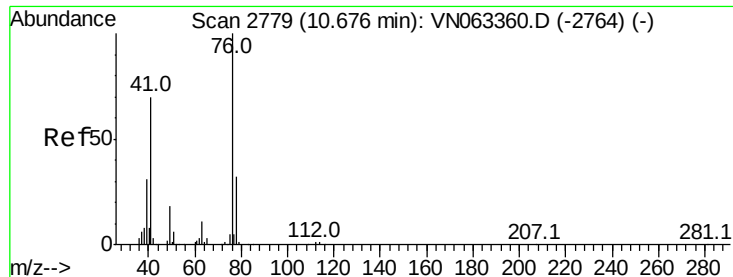
Ion Ratio Lower Upper

69 100

41 4944.5 61.0 91.6#

39 2399.1 39.2 58.8#





#57

1,3-Dichloropropane

Concen: 1.048 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

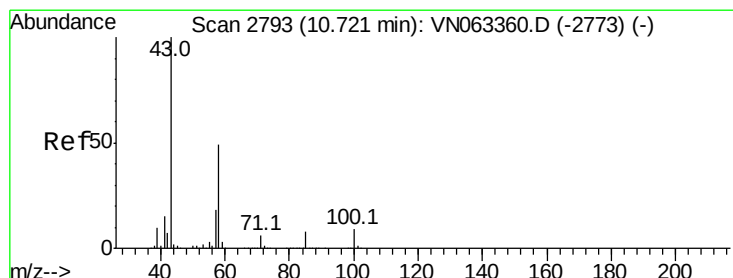
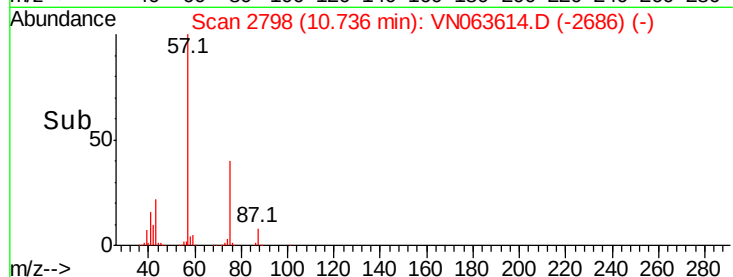
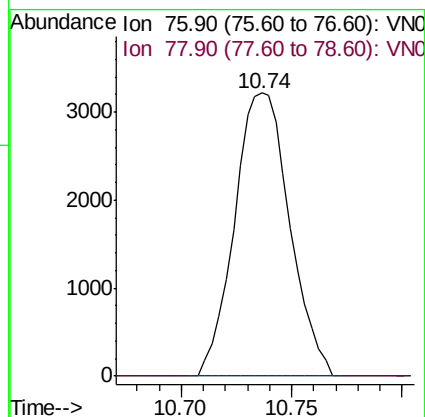
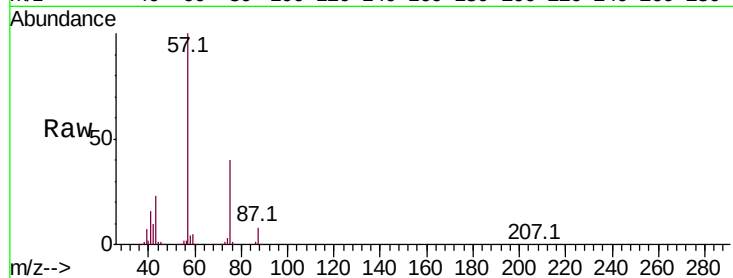
PB131813ZHE#13

Tot Ion: 76 Resp: 5557

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 29.877 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063614.D

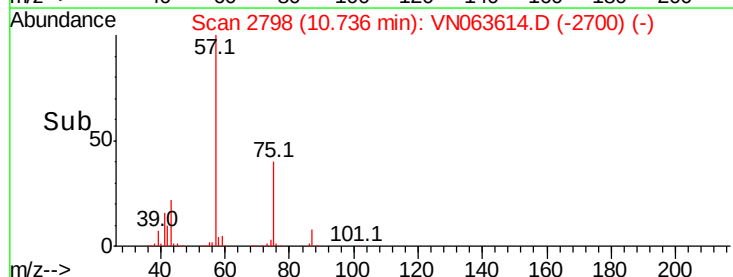
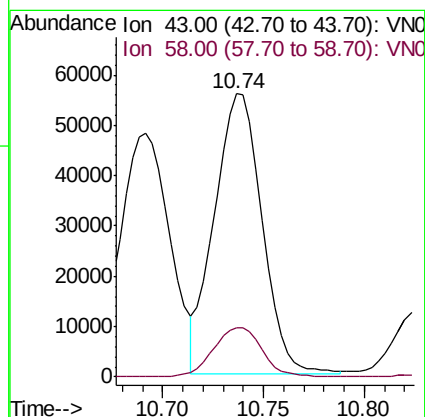
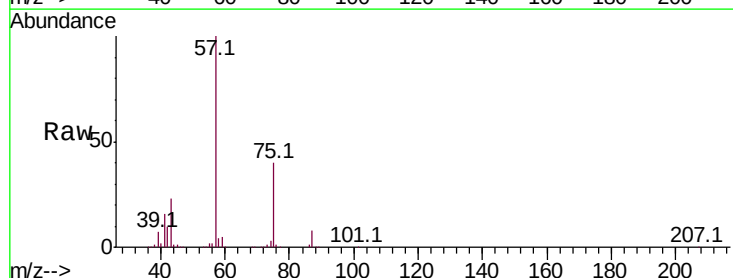
Acq: 24 Sep 2020 2:29

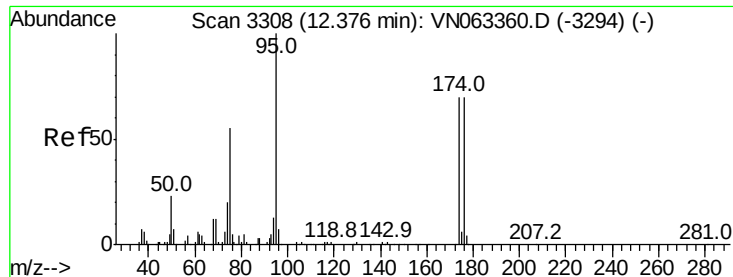
Tgt Ion: 43 Resp: 91714

Ion Ratio Lower Upper

43 100

58 17.9 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 54.727 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

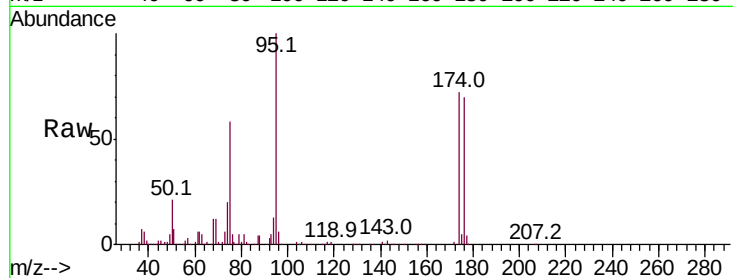
Tot Ion: 95 Resp: 211404

Ion Ratio Lower Upper

95 100

174 72.7 0.0 140.8

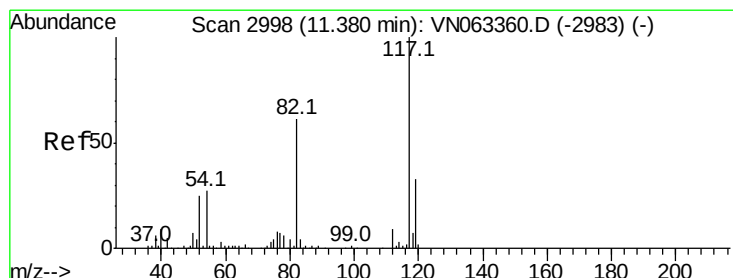
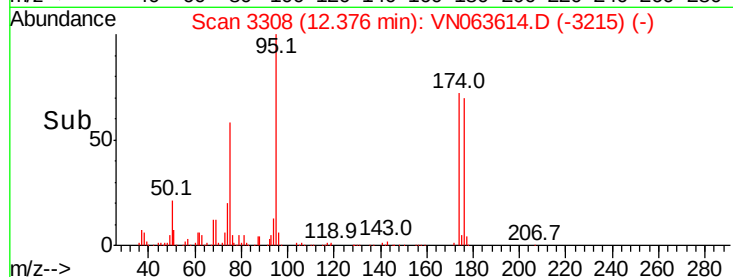
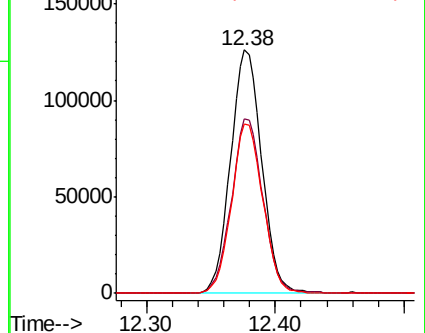
176 69.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

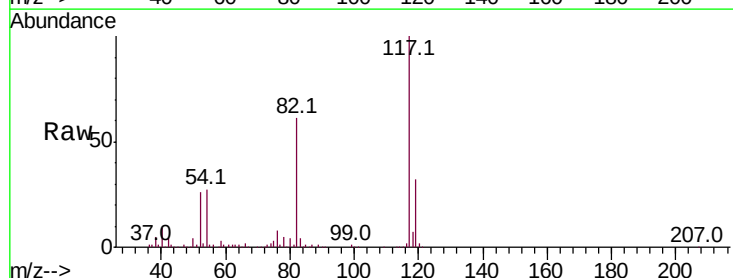
Tgt Ion: 117 Resp: 421733

Ion Ratio Lower Upper

117 100

82 60.5 49.2 73.8

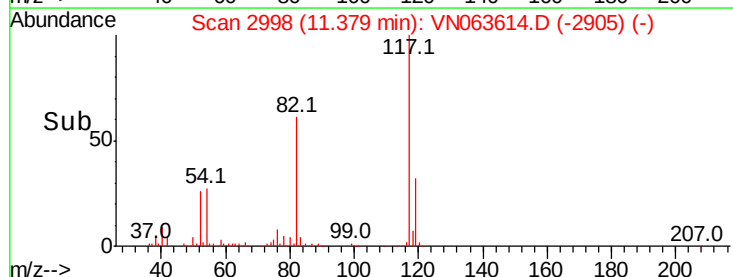
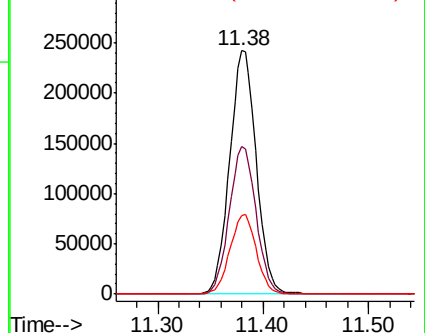
119 32.4 26.2 39.4

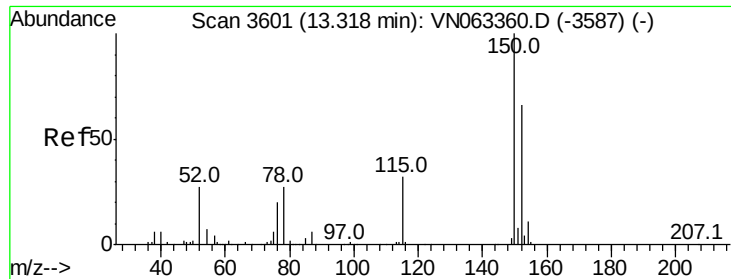


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

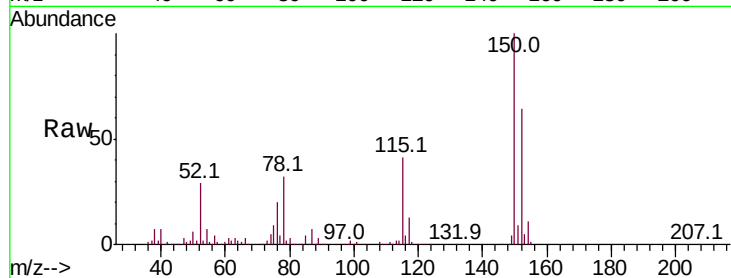
Tot Ion:152 Resp: 177968

Ion Ratio Lower Upper

152 100

115 63.5 32.2 96.6

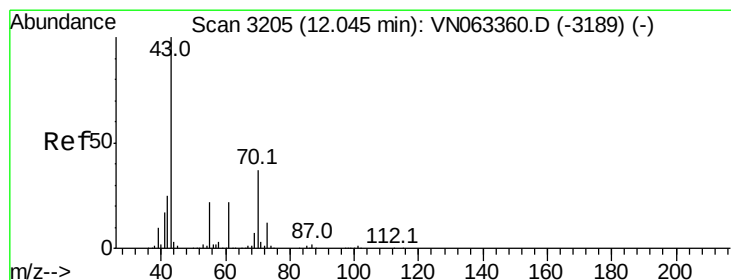
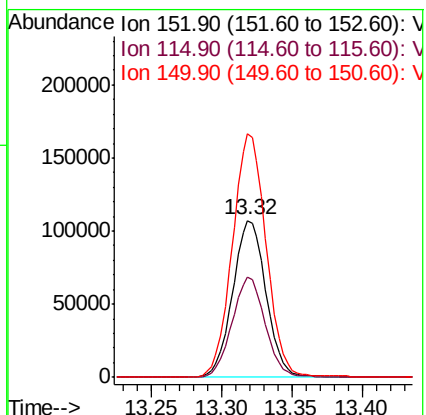
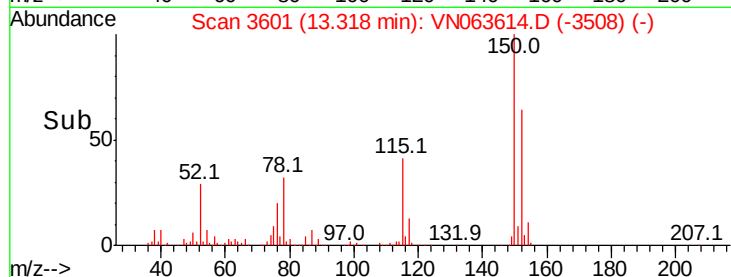
150 156.6 0.0 343.4



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: 0.479 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.04 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Tgt Ion: 43 Resp: 3233

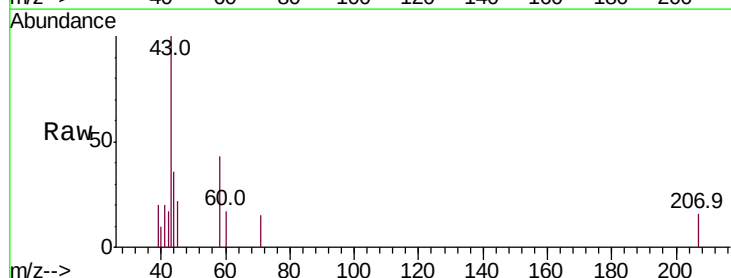
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.7 26.5#

61 0.0 17.4 26.2#

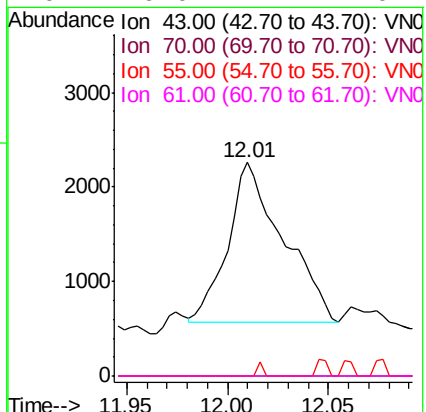
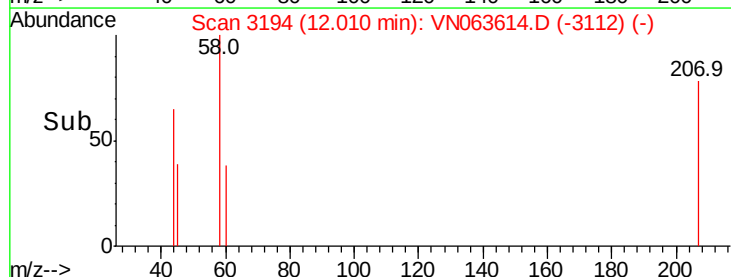


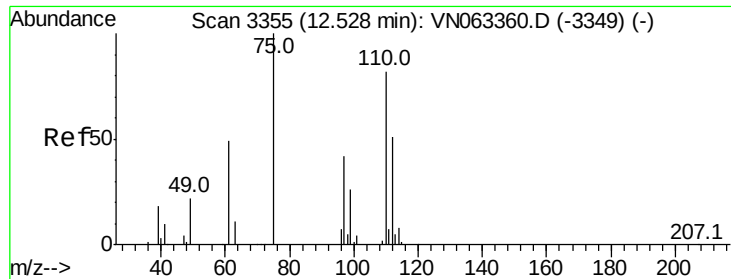
Abundance Ion 43.00 (42.70 to 43.70): V

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

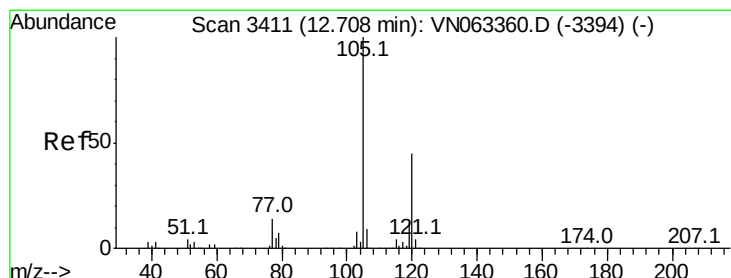
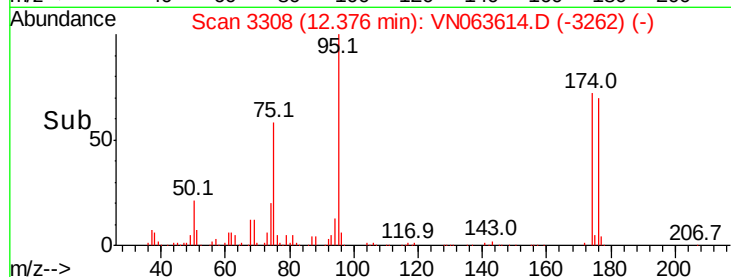
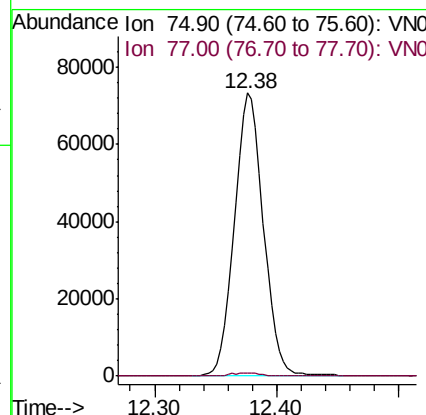
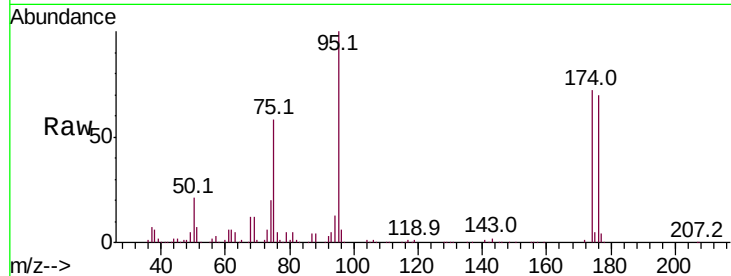




#76
 1,2,3-Trichloropropane
 Concen: 27.594 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063614.D
 Acq: 24 Sep 2020 2:29

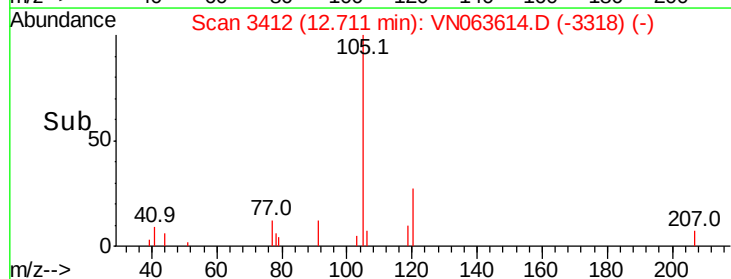
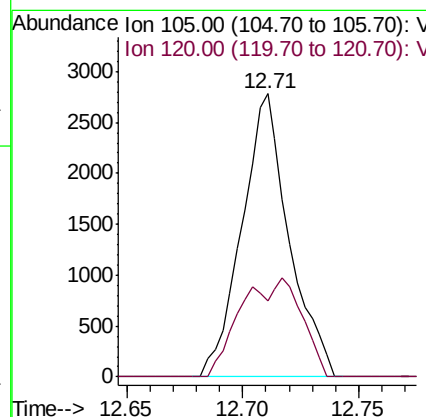
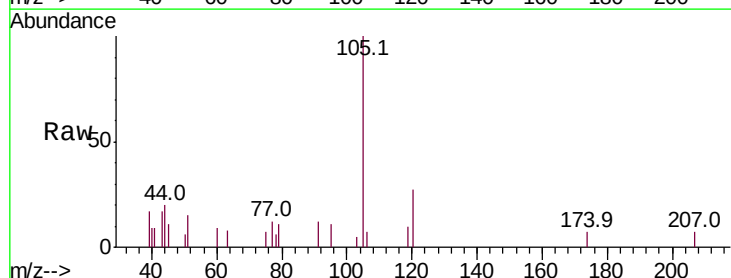
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131813ZHE#13

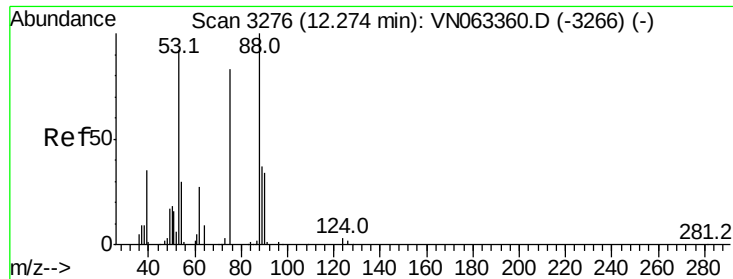
Tot Ion: 75 Resp: 121549
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.330 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063614.D
 Acq: 24 Sep 2020 2:29

Tgt Ion: 105 Resp: 3928
 Ion Ratio Lower Upper
 105 100
 120 23.0 22.9 68.8





#81

trans-1,4-Dichloro-2-butene

Concen: 75.651 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063614.D

Acq: 24 Sep 2020 2:29

Instrument :

MSVOA_N

ClientSampleId :

PB131813ZHE#13

Tot Ion: 75 Resp: 121549

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

