

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063221.D
 Acq On : 3 Sep 2020 15:36
 Operator : JC/MD
 Sample : PB131386ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131386ZHE#10

Quant Time: Sep 04 04:04:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

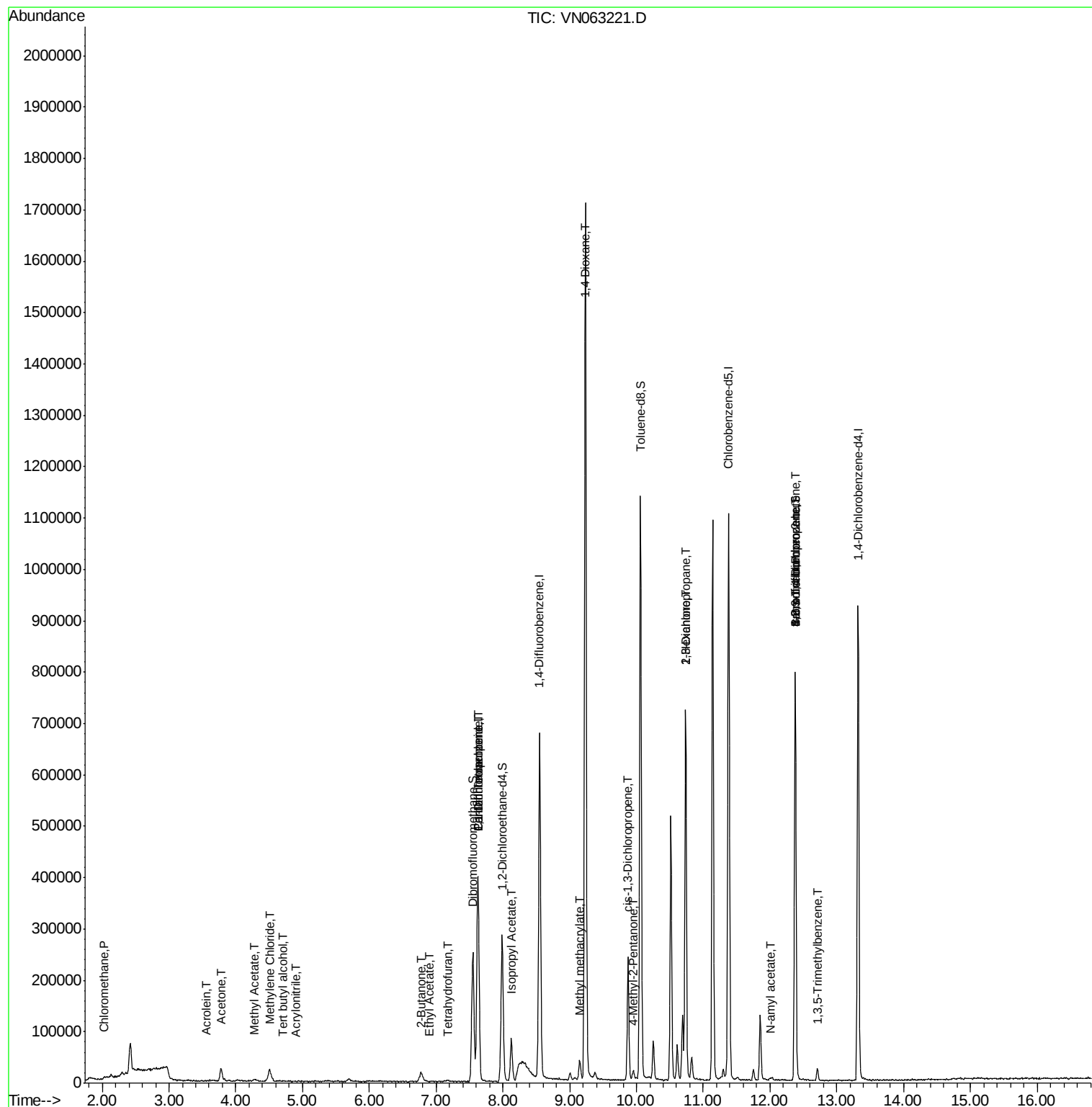
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	288619	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	582209	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	592446	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227755	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	235810	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
35) Dibromofluoromethane	7.55	113	183197	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
50) Toluene-d8	10.06	98	753418	52.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.82%	
62) 4-Bromofluorobenzene	12.38	95	255842	50.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.74%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	1819	0.439	ug/l #	87
7) Trichlorofluoromethane	2.99	101	29	Below Cal	#	19
11) Tert butyl alcohol	4.71	59	358	0.618	ug/l #	72
13) Acrolein	3.56	56	113	16.249	ug/l #	1
15) Acrylonitrile	4.91	53	69	2.446	ug/l #	37
16) Acetone	3.78	43	41357	30.836	ug/l	97
18) Methyl Acetate	4.28	43	5188	1.509	ug/l #	77
20) Methylene Chloride	4.51	84	16870	4.021	ug/l	92
25) 2-Butanone	6.78	43	1299	0.626	ug/l #	72
29) Tetrahydrofuran	7.17	42	486	0.338	ug/l #	8
31) Cyclohexane	7.63	56	9912	Below Cal	#	41
36) 1,1-Dichloropropene	7.63	75	28228	5.043	ug/l #	50
37) Ethyl Acetate	6.90	43	302	0.437	ug/l #	43
38) Carbon Tetrachloride	7.63	117	32404	5.709	ug/l #	15
43) Isopropyl Acetate	8.13	43	97794	10.714	ug/l #	88
48) Methyl methacrylate	9.14	41	4899	1.191	ug/l #	13
49) 1,4-Dioxane	9.22	88	67	1.053	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	13584	2.739	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	41254	5.808	ug/l #	66
57) 1,3-Dichloropropane	10.74	76	7065	1.011	ug/l #	45
59) 2-Hexanone	10.74	43	103071	29.567	ug/l #	54
71) Bromoform	12.38	173	1598	0.532	ug/l #	1
74) N-amyl acetate	12.01	43	2952	0.408	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	150051	33.532	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	10580	0.728	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	150051	81.045	ug/l #	10

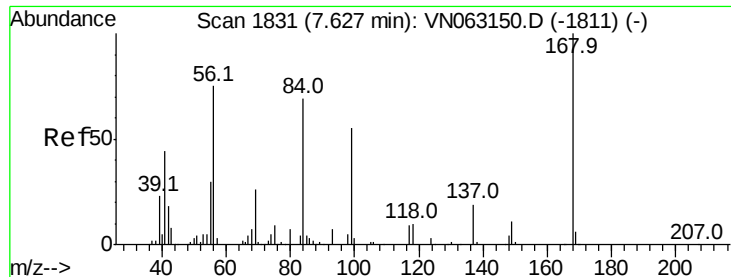
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 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: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

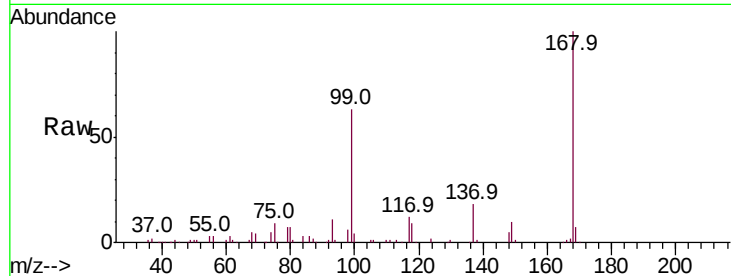
PB131386ZHE#10

Tot Ion:168 Resp: 288619

Ion Ratio Lower Upper

168 100

99 62.9 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

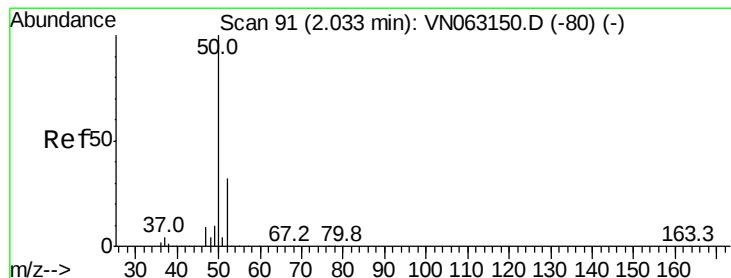
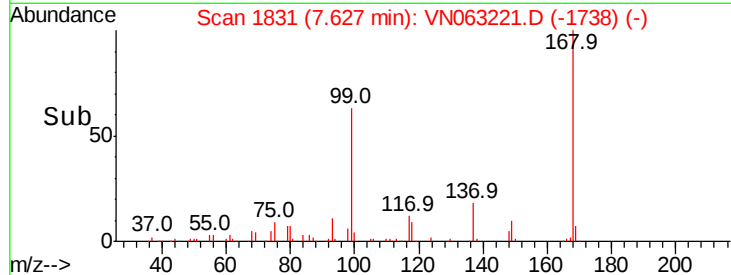
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.439 ug/l

RT: 2.03 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN063221.D

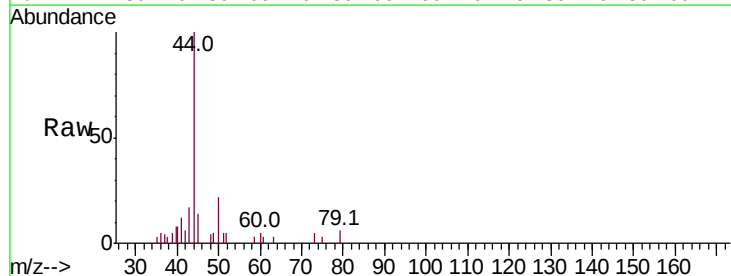
Acq: 3 Sep 2020 15:36

Tgt Ion: 50 Resp: 1819

Ion Ratio Lower Upper

50 100

52 25.2 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1200

1000

800

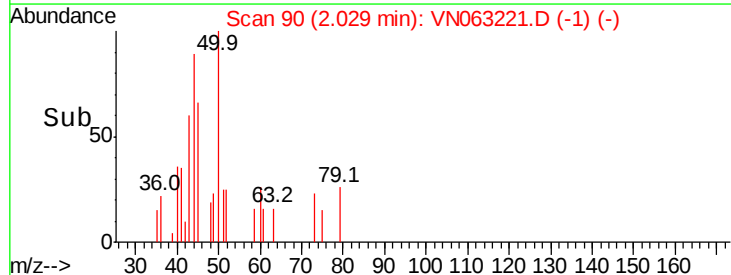
600

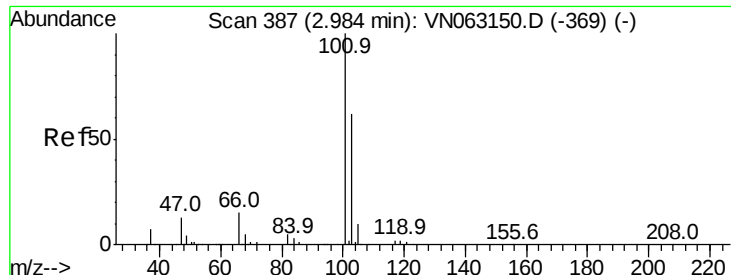
400

200

0

Time--> 2.00 2.05





#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.99 min Scan# 390

Delta R.T. 0.01 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

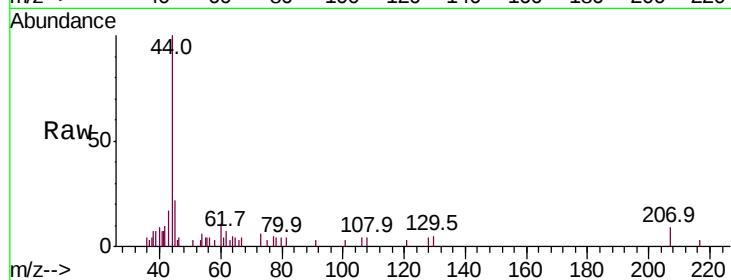
PB131386ZHE#10

Tot Ion:101 Resp: 29

Ion Ratio Lower Upper

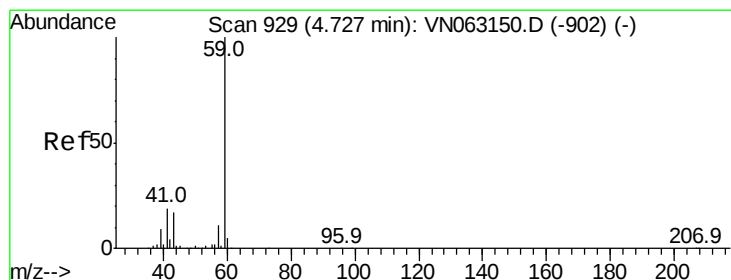
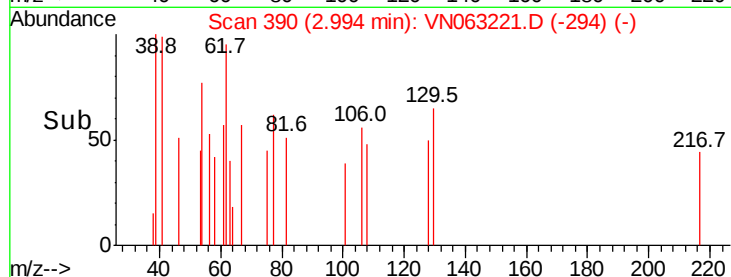
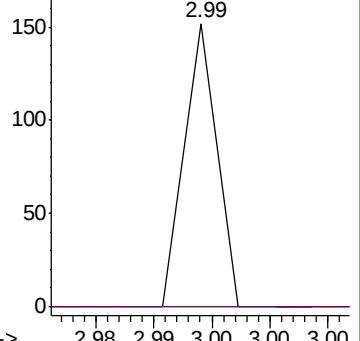
101 100

103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#11

Tert butyl alcohol

Concen: 0.618 ug/l

RT: 4.71 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN063221.D

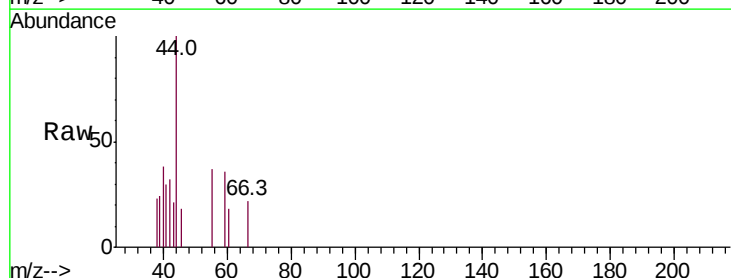
Acq: 3 Sep 2020 15:36

Tgt Ion: 59 Resp: 358

Ion Ratio Lower Upper

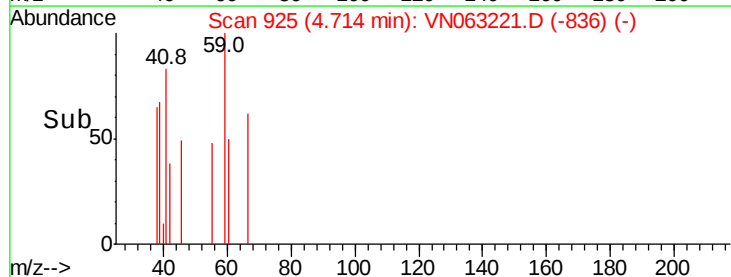
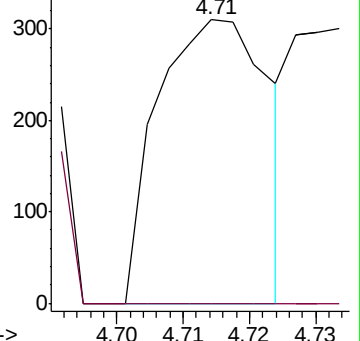
59 100

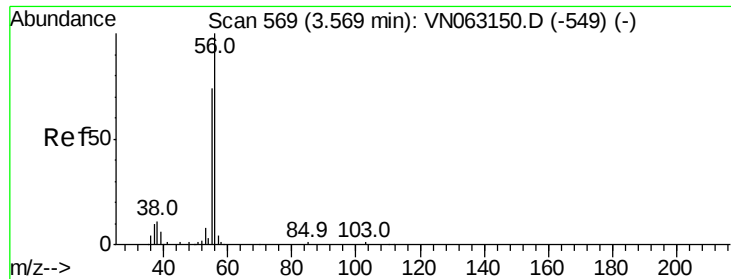
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 16.249 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

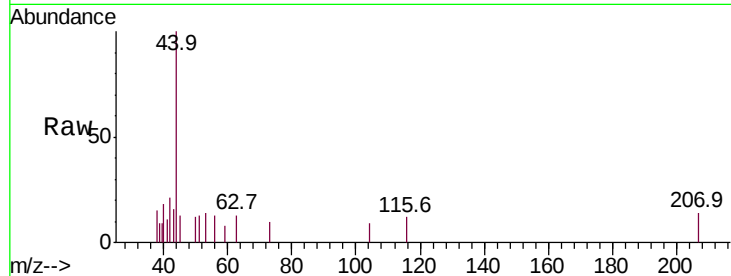
PB131386ZHE#10

Tot Ion: 56 Resp: 113

Ion Ratio Lower Upper

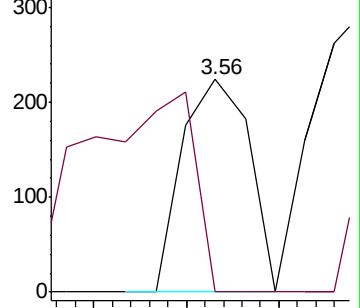
56 100

55 149.6 55.4 83.0#

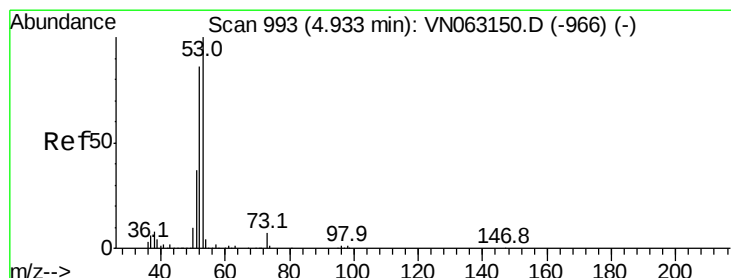
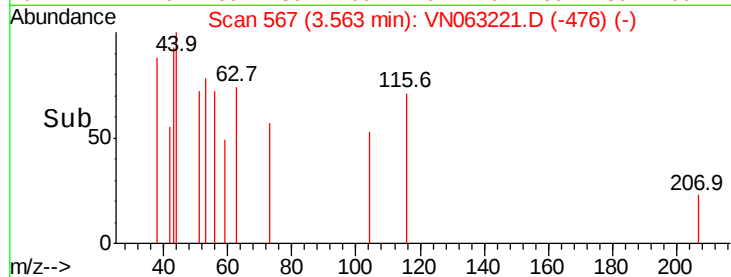


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#15

Acrylonitrile

Concen: 2.446 ug/l

RT: 4.91 min Scan# 985

Delta R.T. -0.02 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

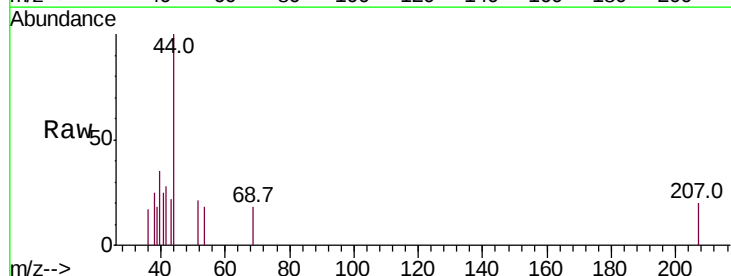
Tgt Ion: 53 Resp: 69

Ion Ratio Lower Upper

53 100

52 52.2 67.2 100.8#

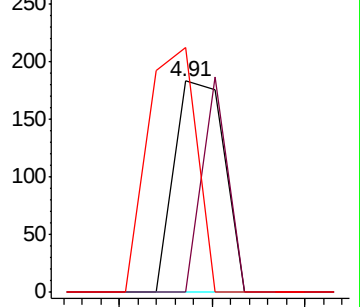
51 113.0 30.2 45.4#



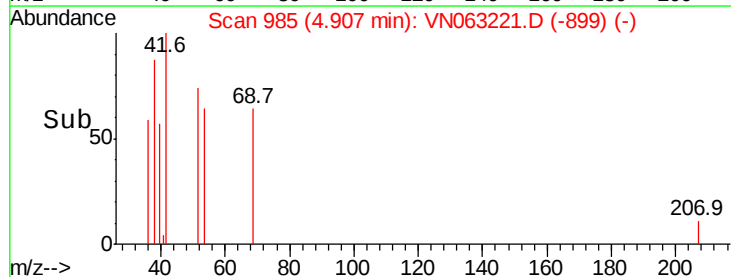
Abundance Ion 53.00 (52.70 to 53.70): VN0

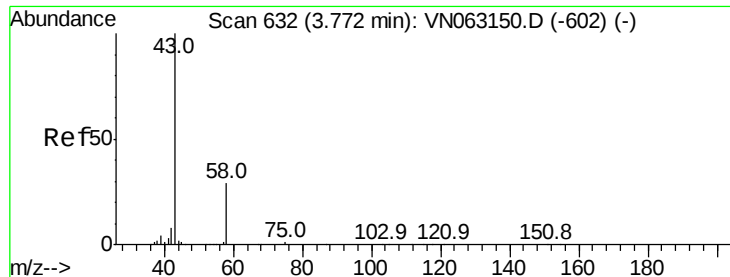
Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->





#16

Acetone

Concen: 30.836 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

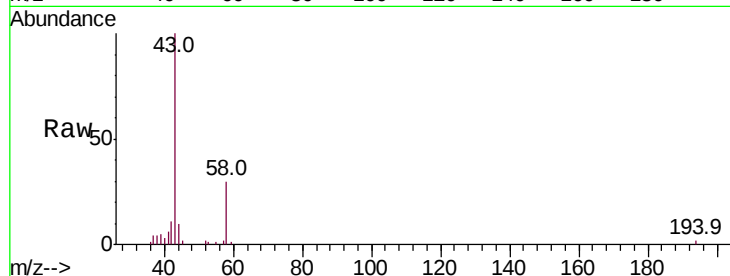
PB131386ZHE#10

Tot Ion: 43 Resp: 41357

Ion Ratio Lower Upper

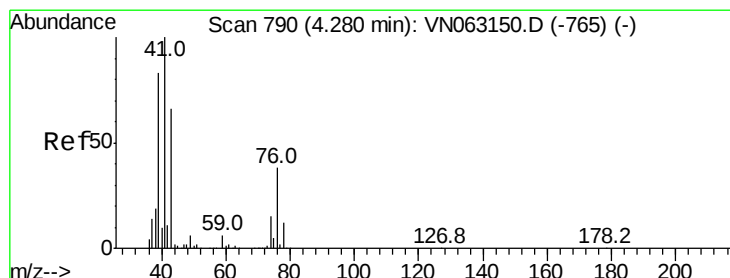
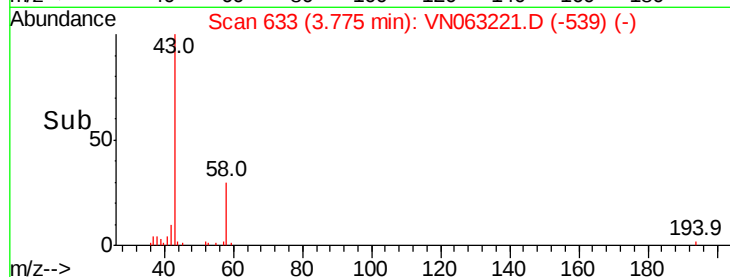
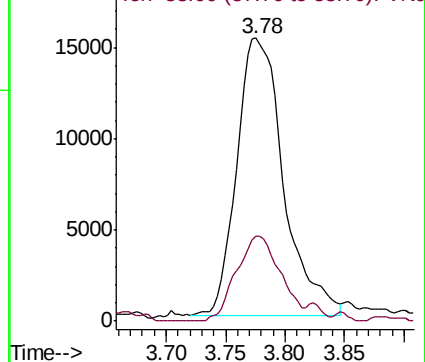
43 100

58 30.6 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.509 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.00 min

Lab File: VN063221.D

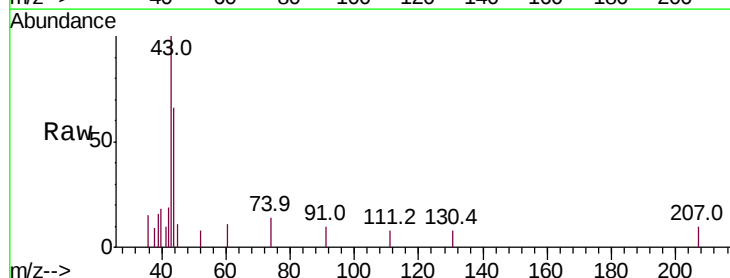
Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 5188

Ion Ratio Lower Upper

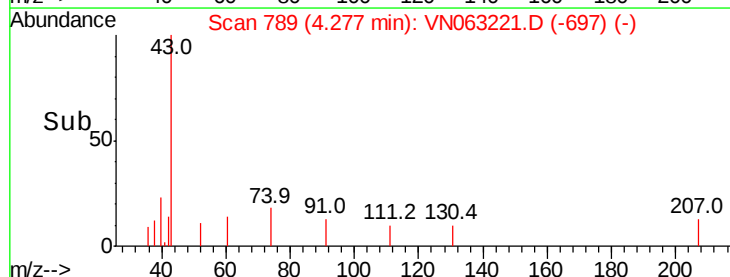
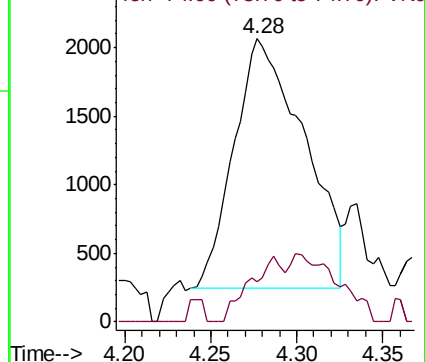
43 100

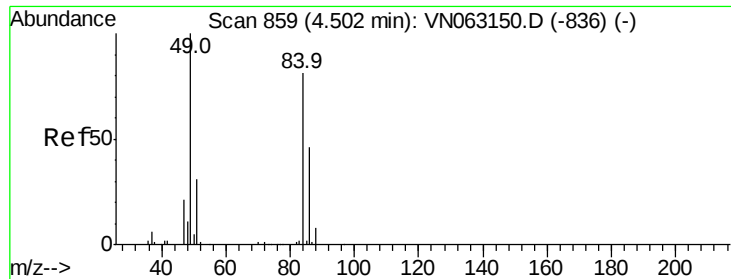
74 12.6 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 4.021 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB131386ZHE#10

Tot Ion: 84 Resp: 16870

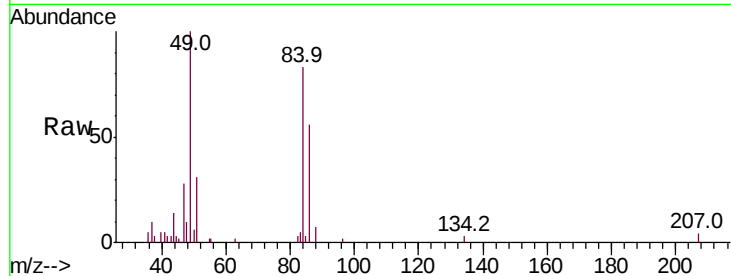
Ion Ratio Lower Upper

84 100

49 115.8 98.4 147.6

51 36.9 30.4 45.6

86 67.3 45.7 68.5

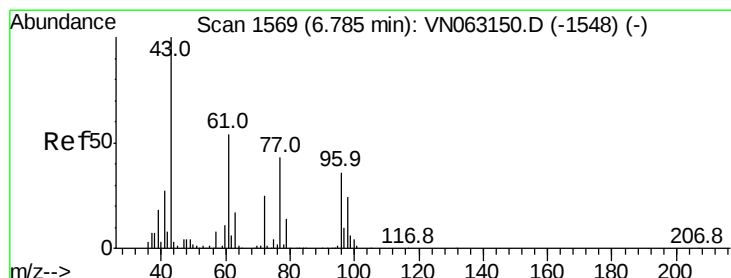
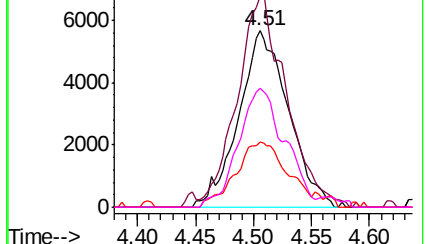
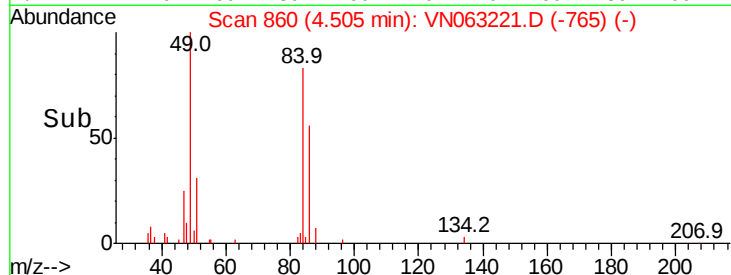


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#25

2-Butanone

Concen: 0.626 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN063221.D

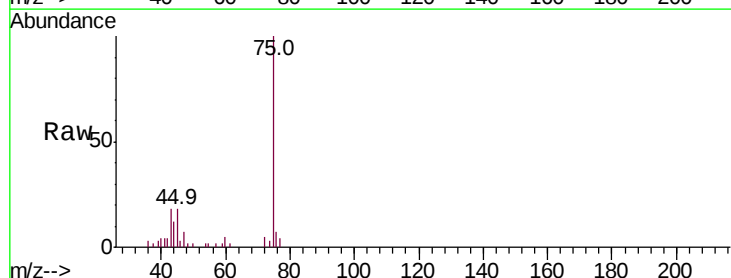
Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 1299

Ion Ratio Lower Upper

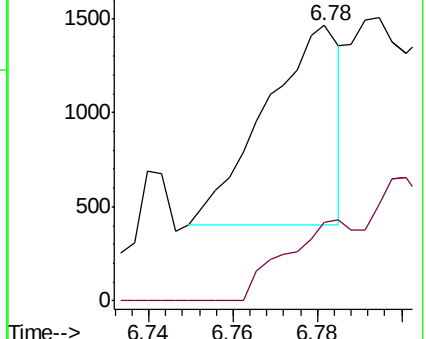
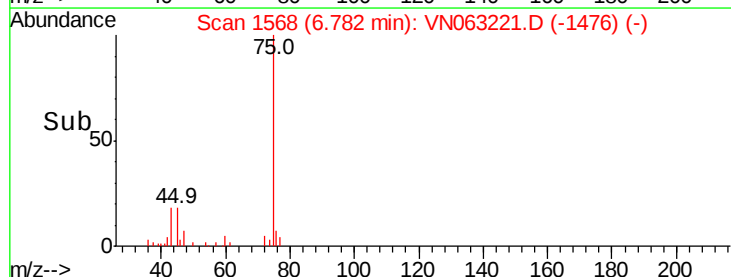
43 100

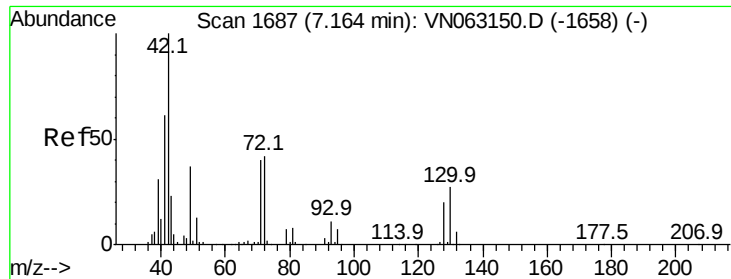
72 39.2 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.338 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN063221.D

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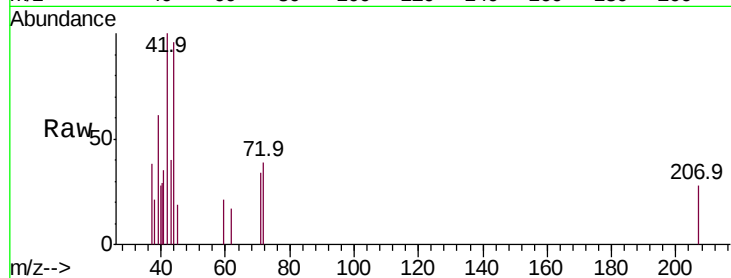
Tot Ion: 42 Resp: 486

Ion Ratio Lower Upper

42 100

72 103.9 33.9 50.9#

71 93.0 31.9 47.9#

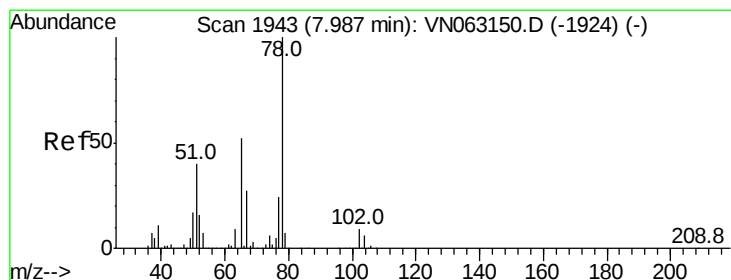
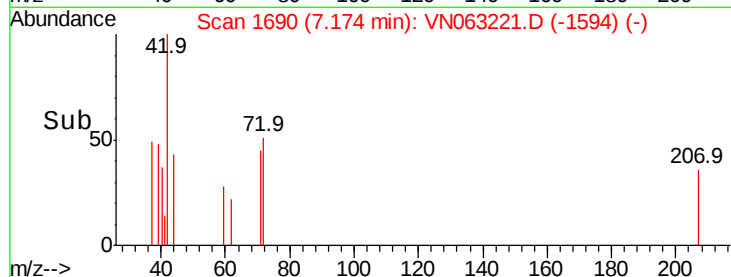
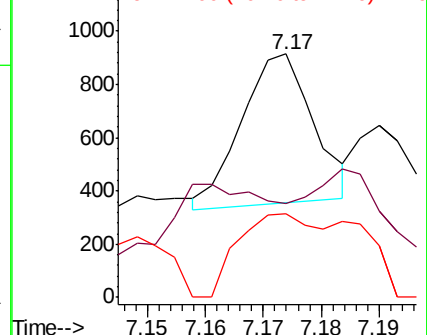


Abundance

Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 49.980 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063221.D

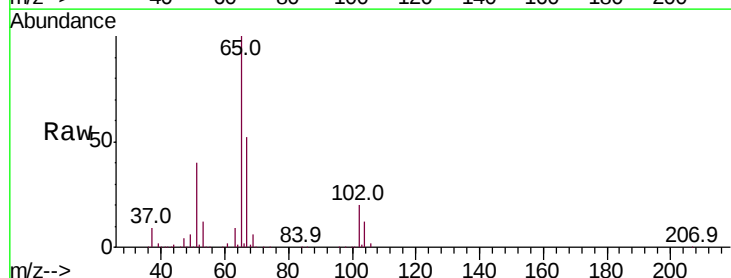
Acq: 3 Sep 2020 15:36

Tgt Ion: 65 Resp: 235810

Ion Ratio Lower Upper

65 100

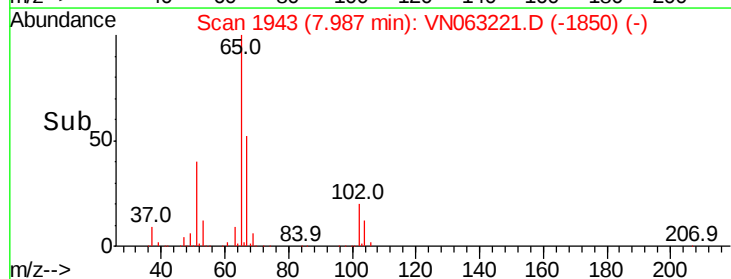
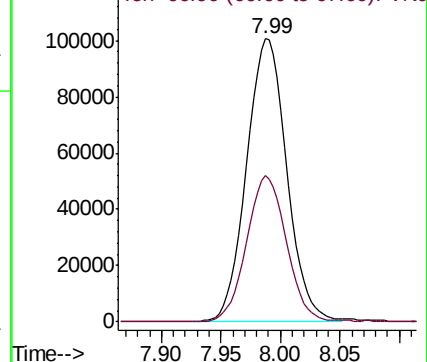
67 51.2 0.0 104.4

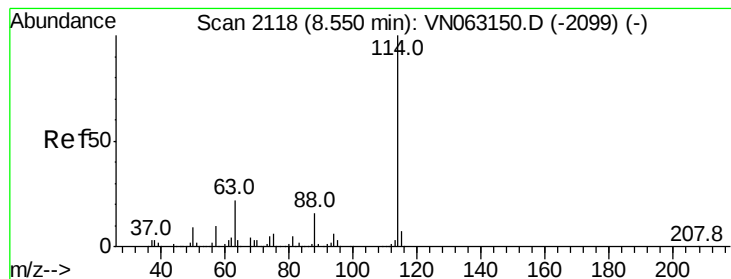


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

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ClientSampleId :

PB131386ZHE#10

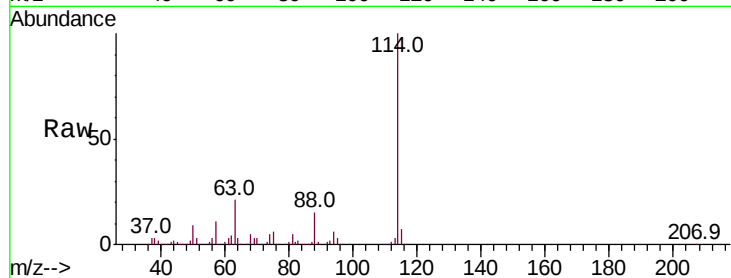
Tot Ion:114 Resp: 582209

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

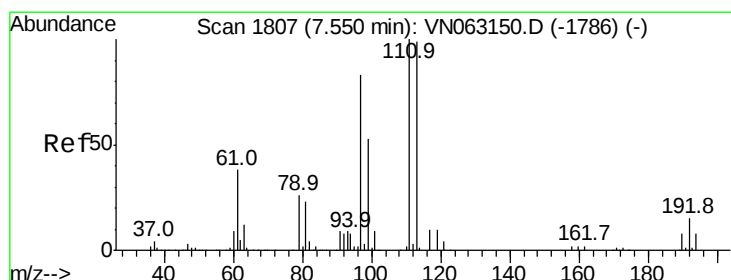
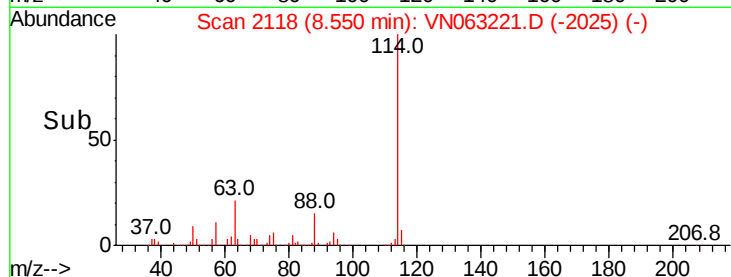
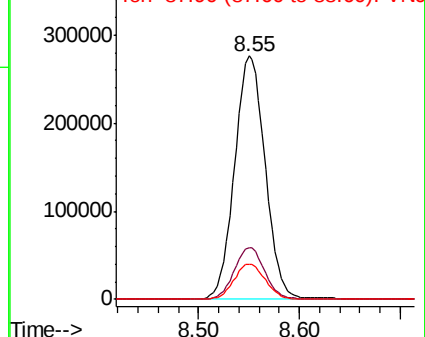
88 14.6 0.0 31.6



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: 49.047 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

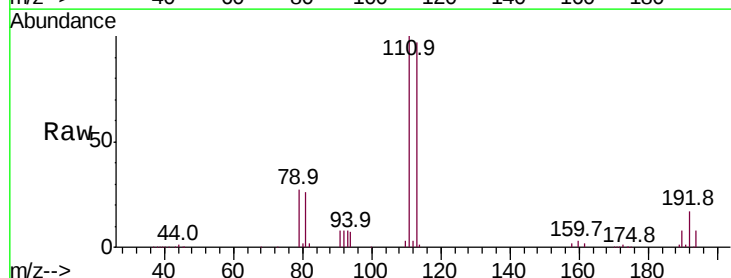
Tgt Ion:113 Resp: 183197

Ion Ratio Lower Upper

113 100

111 101.6 80.7 121.1

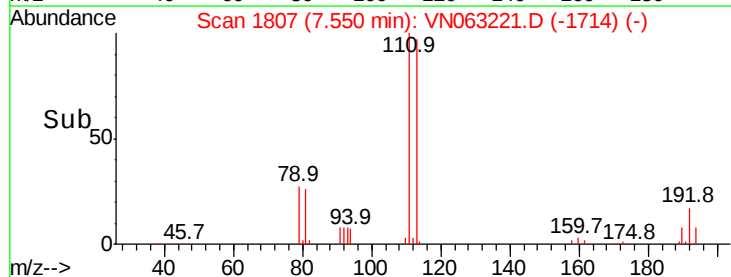
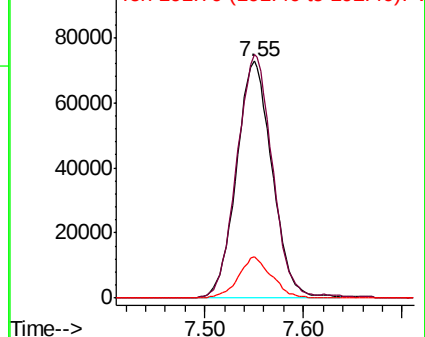
192 16.1 12.6 19.0

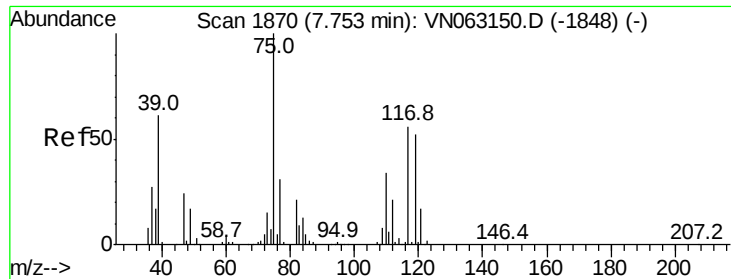


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

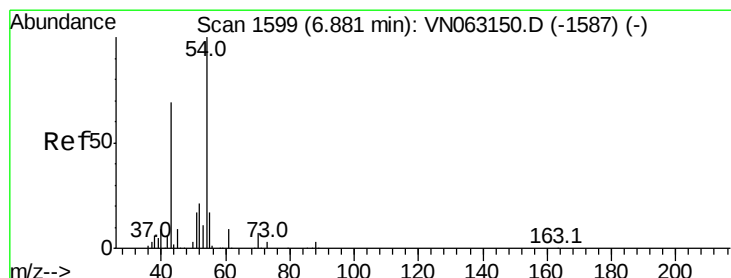
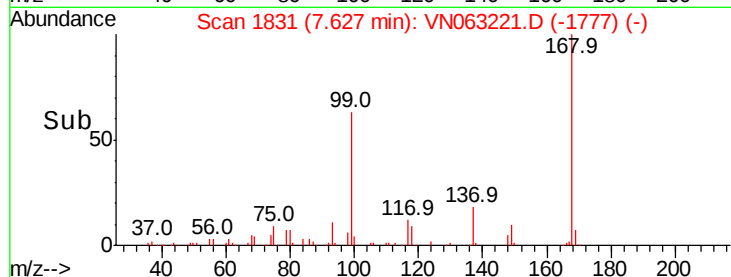
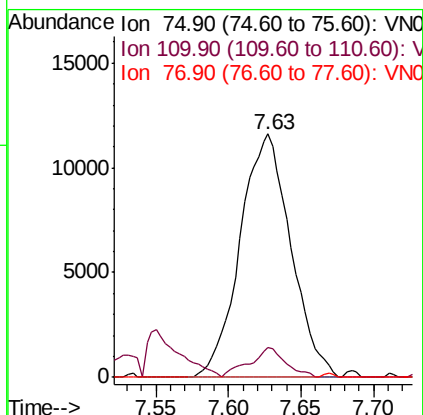
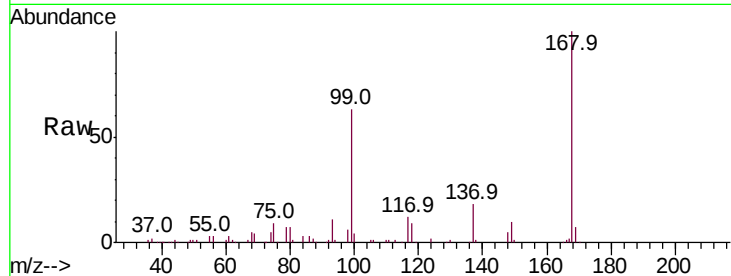




#36
 1,1-Dichloropropene
 Concen: 5.043 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063221.D
 Acq: 3 Sep 2020 15:36

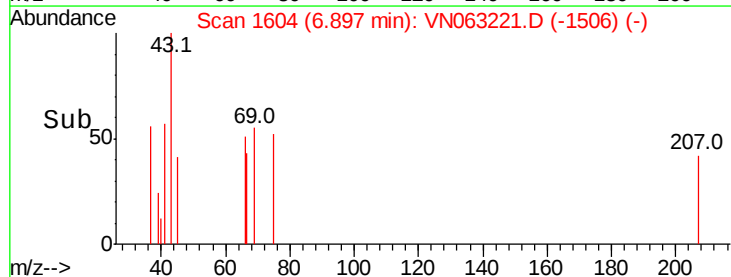
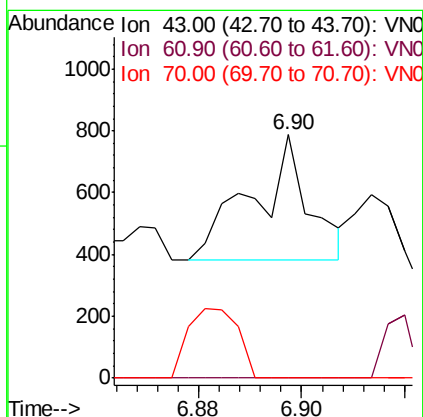
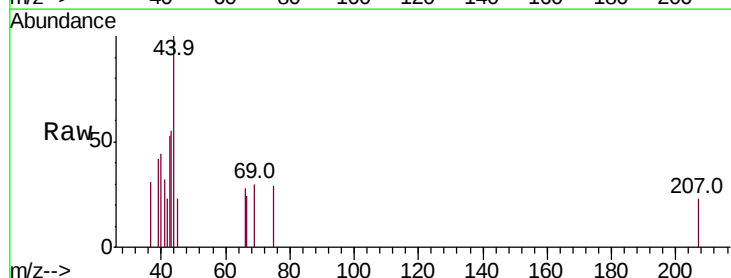
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131386ZHE#10

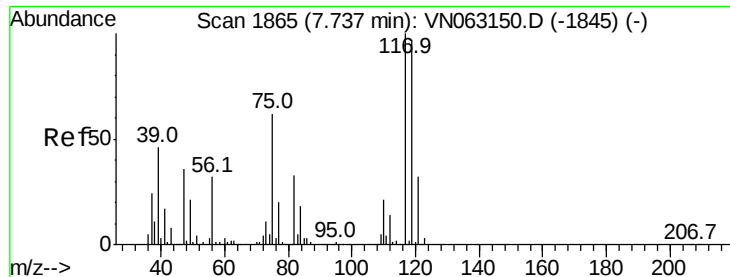
Tot Ion: 75 Resp: 28228
 Ion Ratio Lower Upper
 75 100
 110 8.8 16.6 49.8#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.437 ug/l
 RT: 6.90 min Scan# 1604
 Delta R.T. 0.02 min
 Lab File: VN063221.D
 Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 302
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 49.3 3.0 4.6#

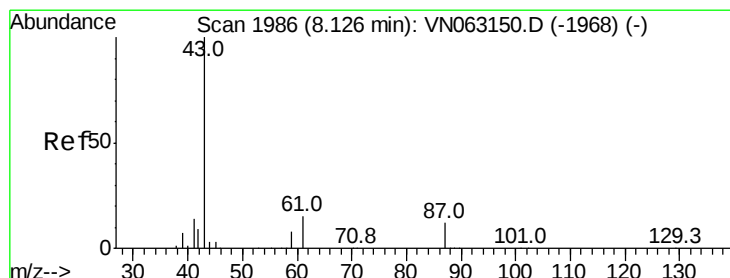
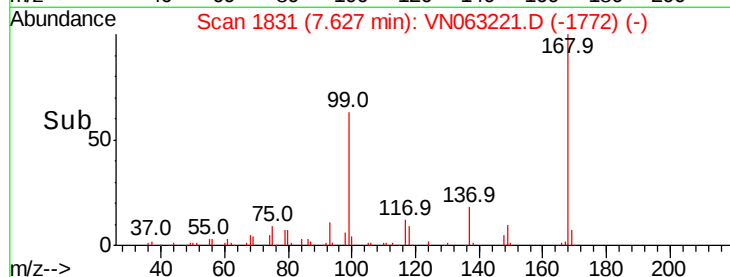
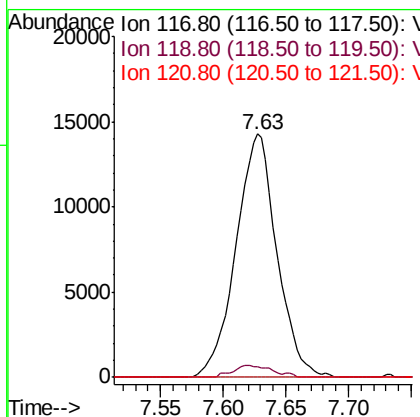
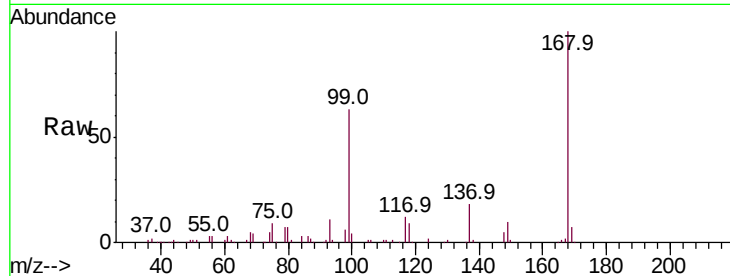




#38
Carbon Tetrachloride
Concen: 5.709 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

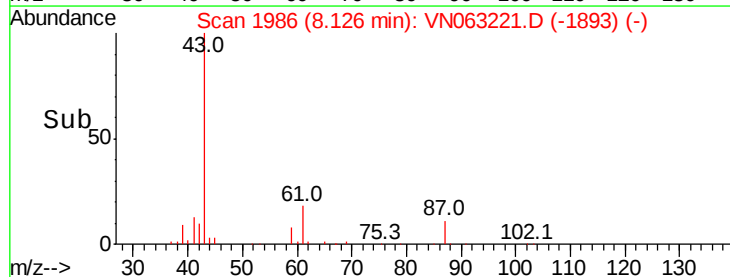
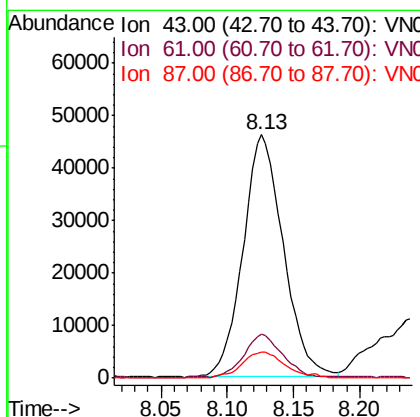
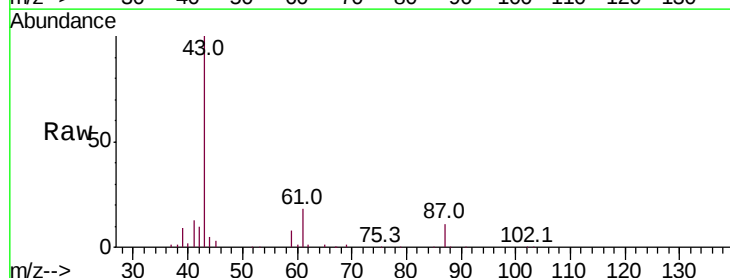
Instrument :
MSVOA_N
ClientSampleId :
PB131386ZHE#10

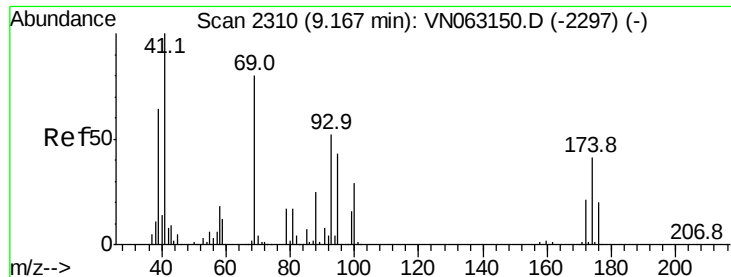
Tot Ion:117 Resp: 32404
Ion Ratio Lower Upper
117 100
119 4.2 77.2 115.8#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 10.714 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 97794
Ion Ratio Lower Upper
43 100
61 16.9 20.2 30.4#
87 11.1 9.8 14.6

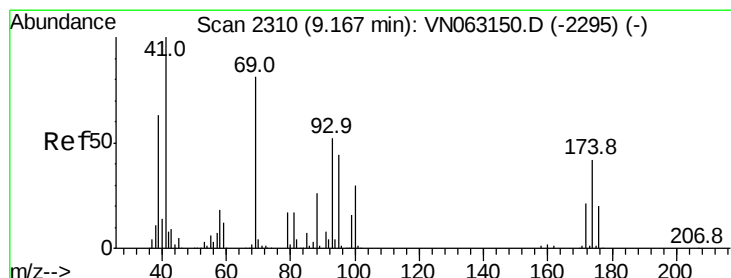
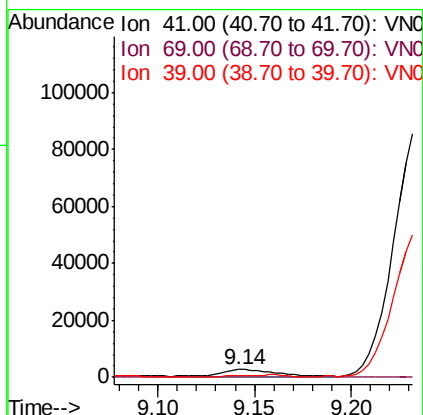
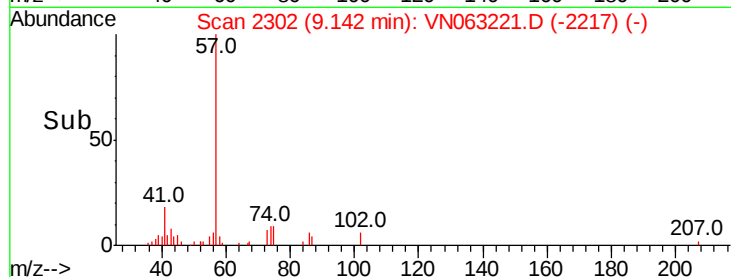
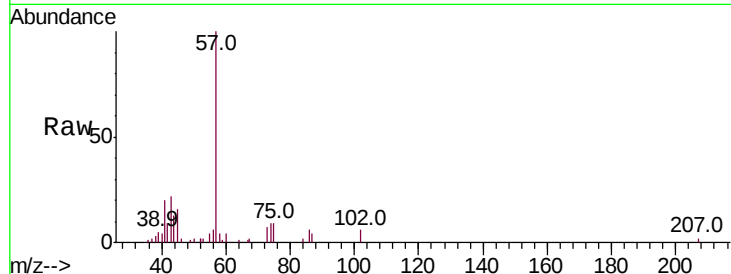




#48
Methvl methacrylate
Concen: 1.191 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

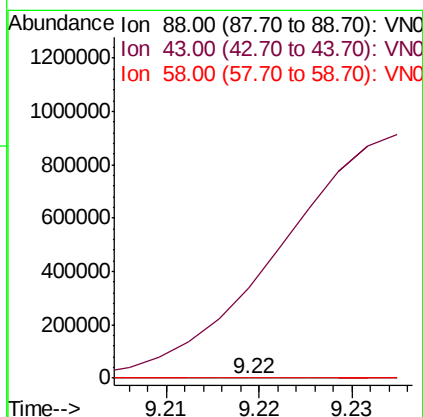
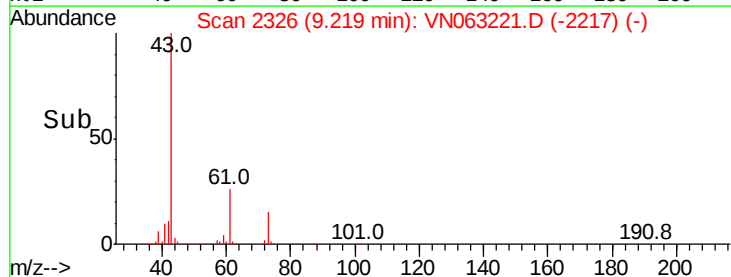
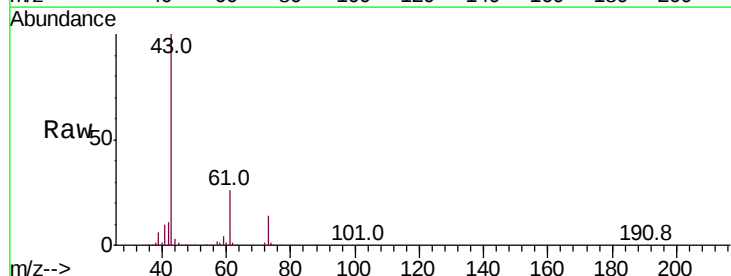
Instrument :
MSVOA_N
ClientSampleId :
PB131386ZHE#10

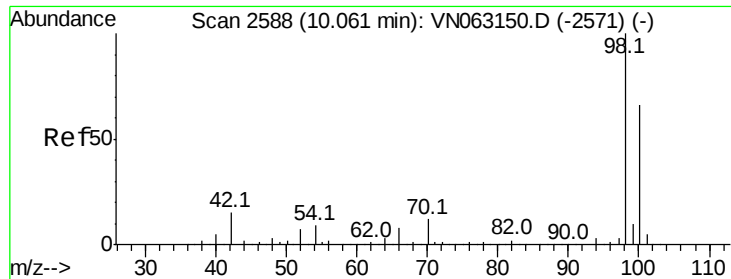
Tot Ion: 41 Resp: 4899
Ion Ratio Lower Upper
41 100
69 0.7 65.9 98.9#
39 0.0 52.0 78.0#



#49
1,4-Dioxane
Concen: 1.053 ug/l
RT: 9.22 min Scan# 2326
Delta R.T. 0.05 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

Tgt Ion: 88 Resp: 67
Ion Ratio Lower Upper
88 100
43 2503788.1 28.6 42.8#
58 11146.3 53.2 79.8#





#50

Toluene-d8

Concen: 52.406 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

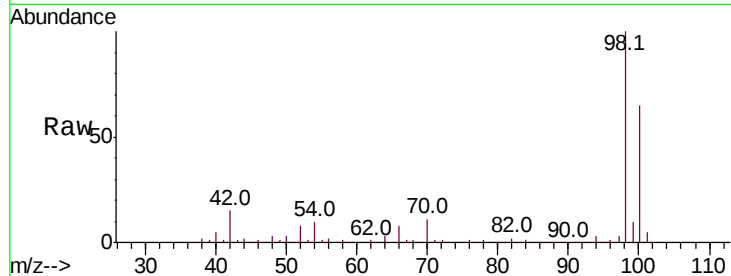
PB131386ZHE#10

Tot Ion: 98 Resp: 753418

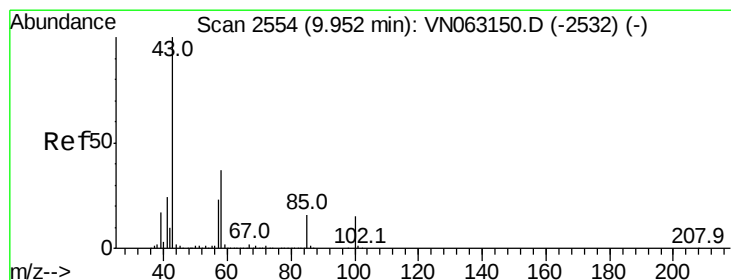
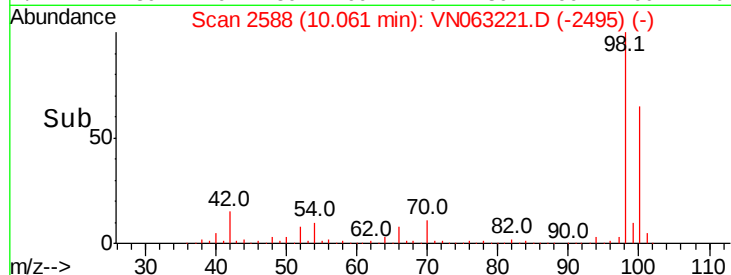
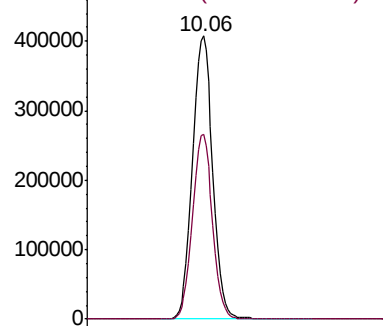
Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN063150.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.739 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN063221.D

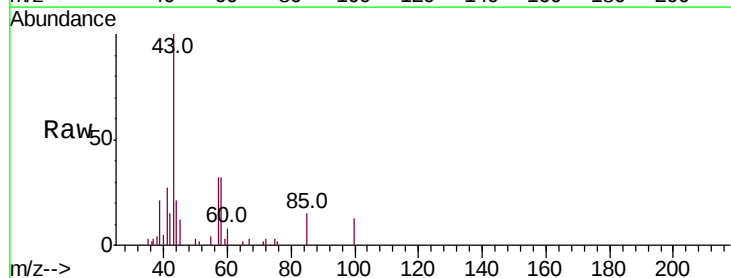
Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 13584

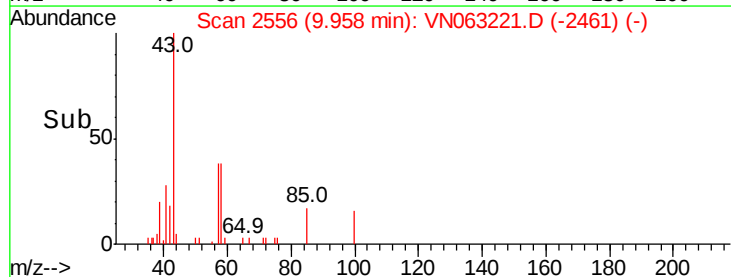
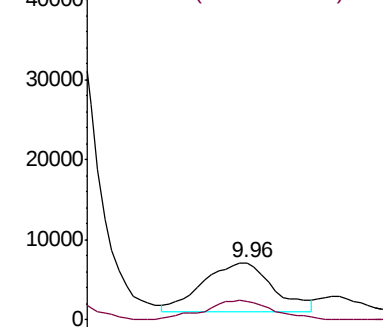
Ion Ratio Lower Upper

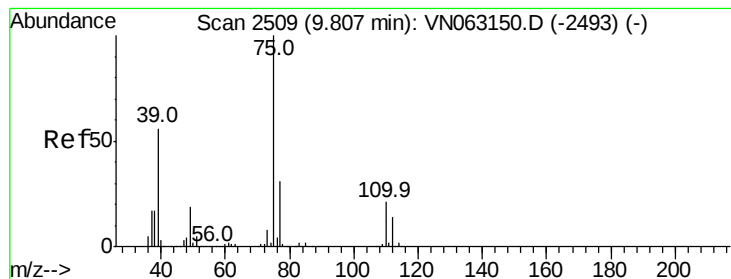
43 100

58 39.1 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-2532) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.808 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB131386ZHE#10

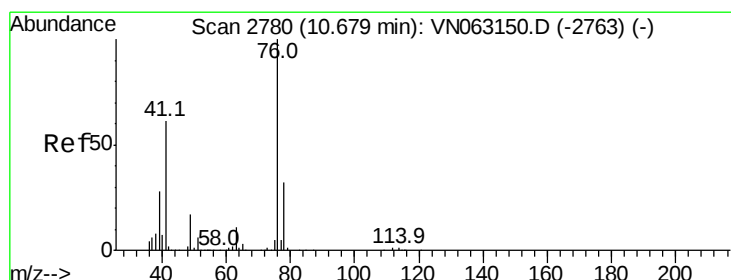
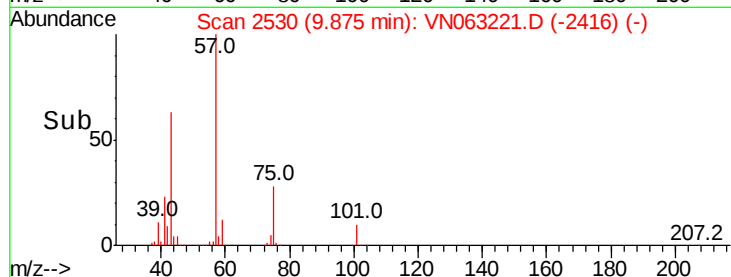
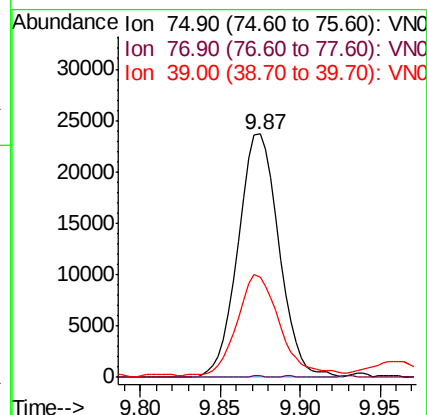
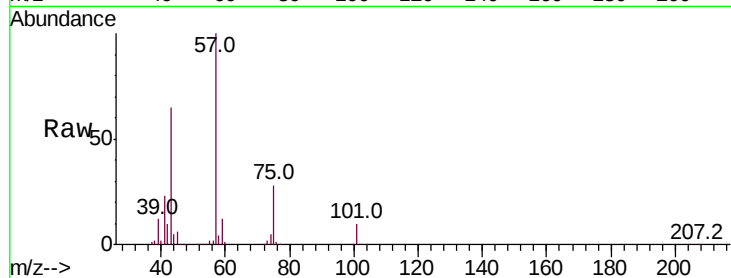
Tot Ion: 75 Resp: 41254

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

39 40.2 45.0 67.6#



#57

1,3-Dichloropropane

Concen: 1.011 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063221.D

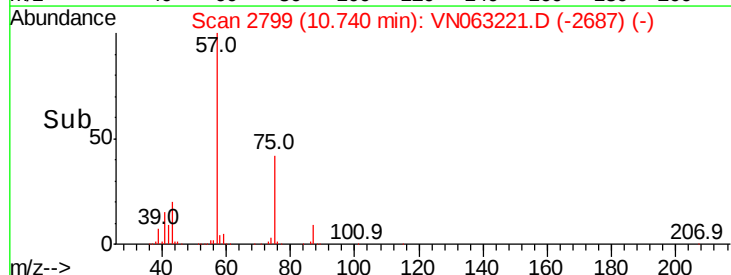
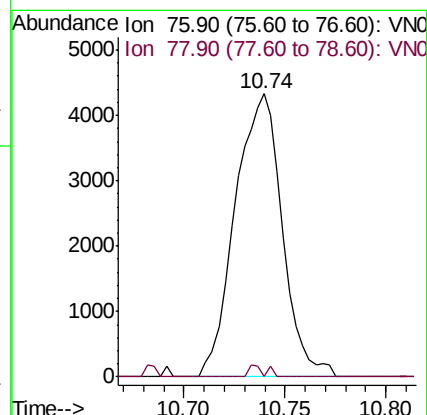
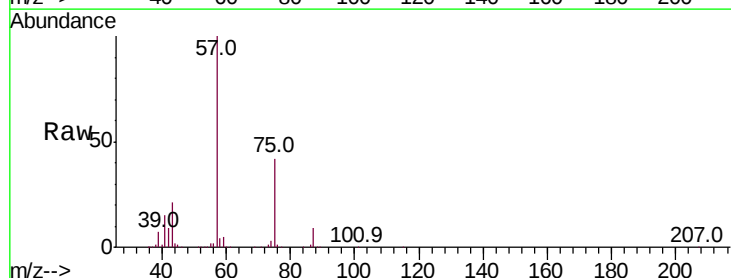
Acq: 3 Sep 2020 15:36

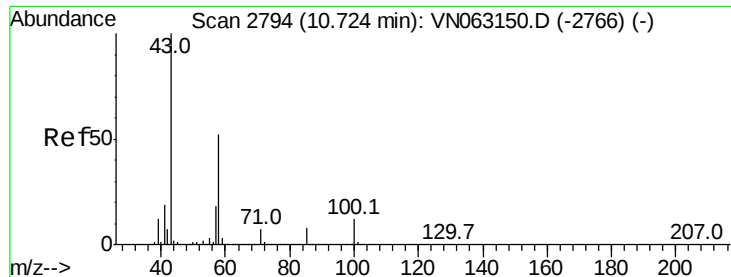
Tgt Ion: 76 Resp: 7065

Ion Ratio Lower Upper

76 100

78 1.4 25.5 38.3#

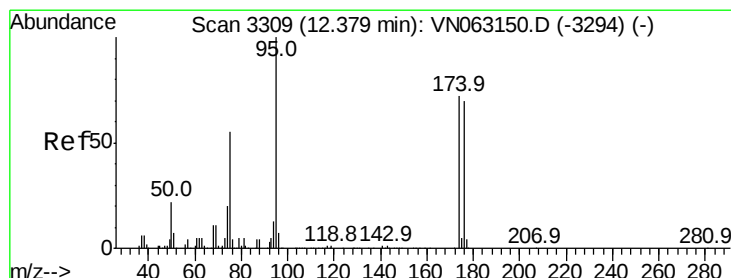
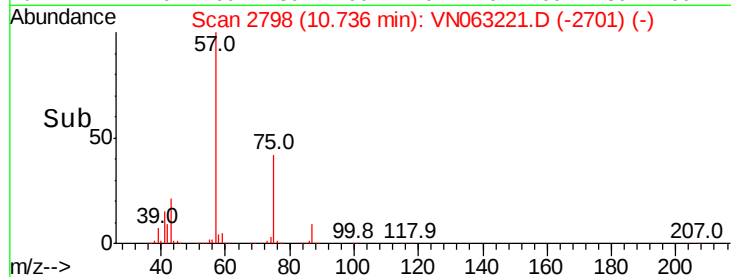
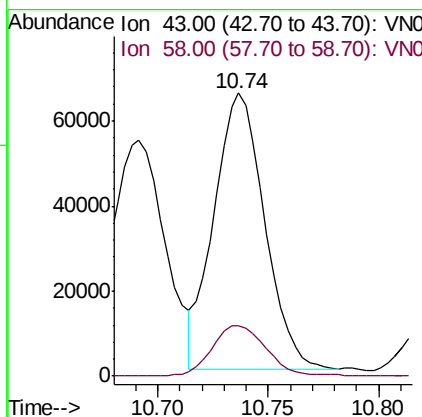
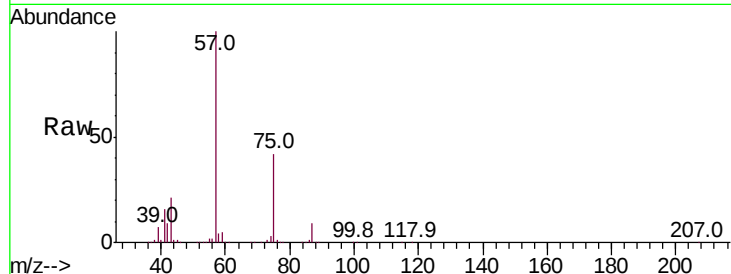




#59
2-Hexanone
Concen: 29.567 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

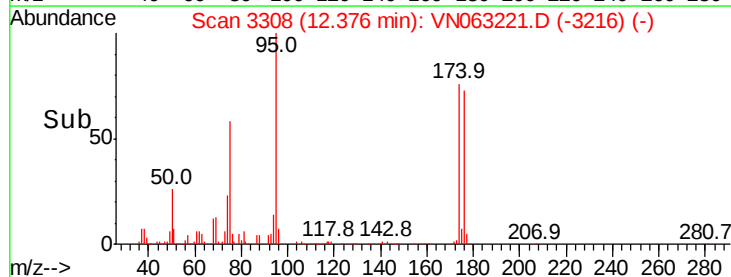
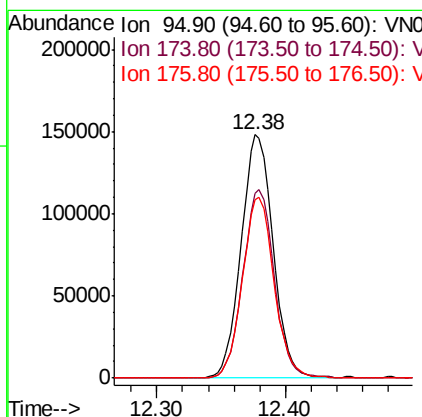
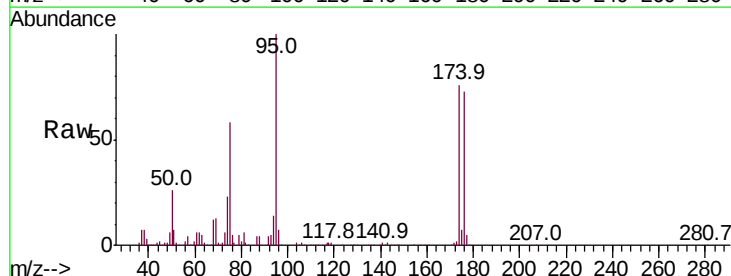
Instrument :
MSVOA_N
ClientSampleId :
PB131386ZHE#10

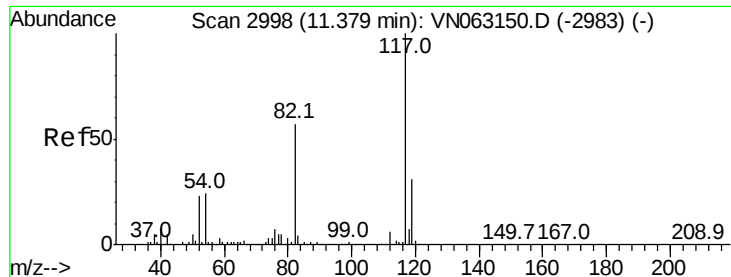
Tot Ion: 43 Resp: 103071
Ion Ratio Lower Upper
43 100
58 19.5 25.9 77.8#



#62
4-Bromofluorobenzene
Concen: 50.873 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

Tgt Ion: 95 Resp: 255842
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 73.6 0.0 138.4

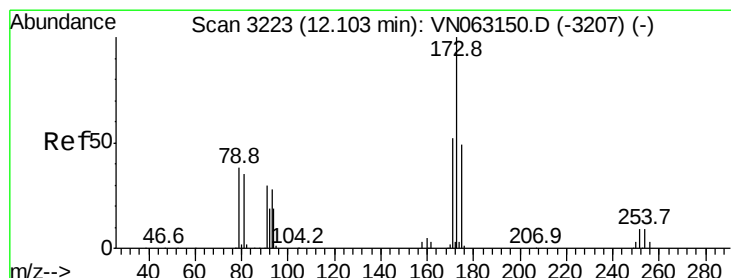
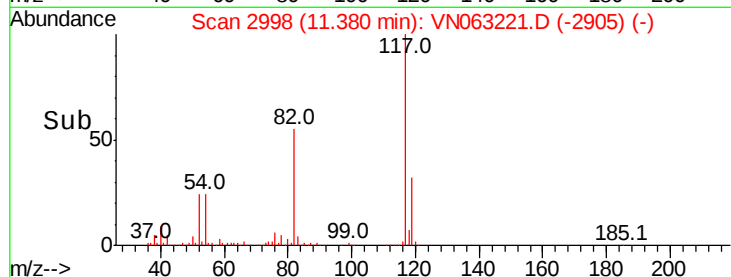
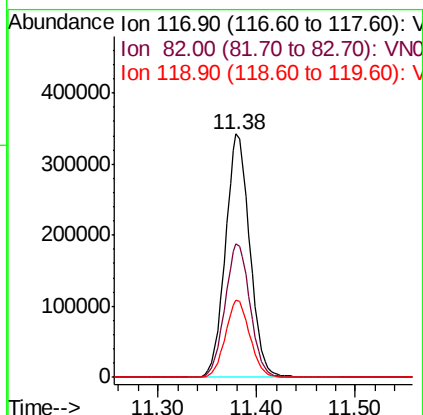
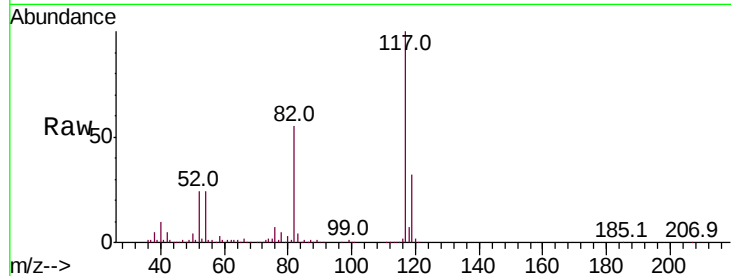




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

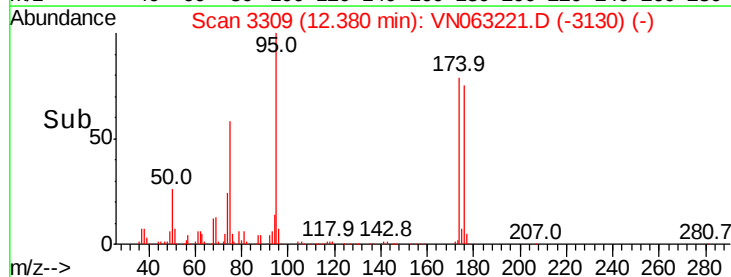
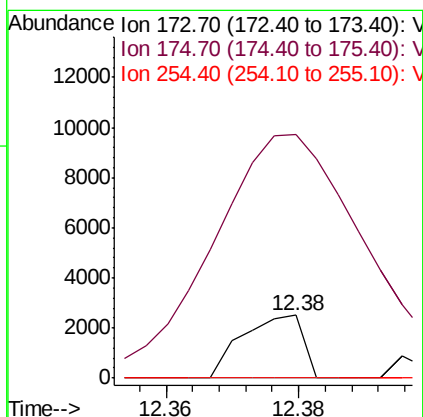
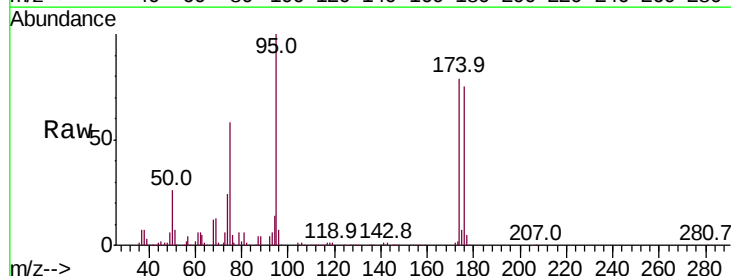
Instrument :
MSVOA_N
ClientSampleId :
PB131386ZHE#10

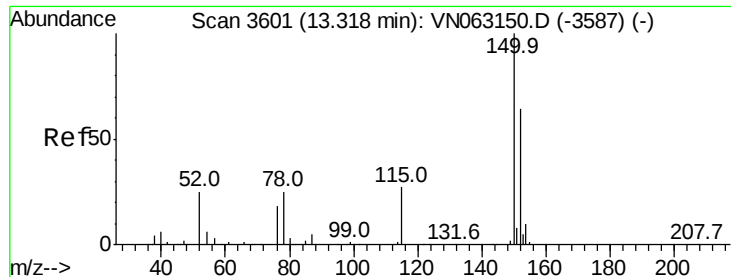
Tot Ion:117 Resp: 592446
Ion Ratio Lower Upper
117 100
82 54.8 45.4 68.0
119 31.7 24.6 37.0



#71
Bromoform
Concen: 0.532 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. 0.28 min
Lab File: VN063221.D
Acq: 3 Sep 2020 15:36

Tgt Ion:173 Resp: 1598
Ion Ratio Lower Upper
173 100
175 843.8 24.6 73.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB131386ZHE#10

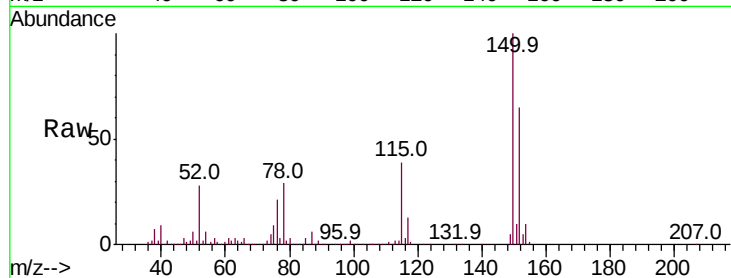
Tot Ion:152 Resp: 227755

Ion Ratio Lower Upper

152 100

115 61.0 32.0 96.2

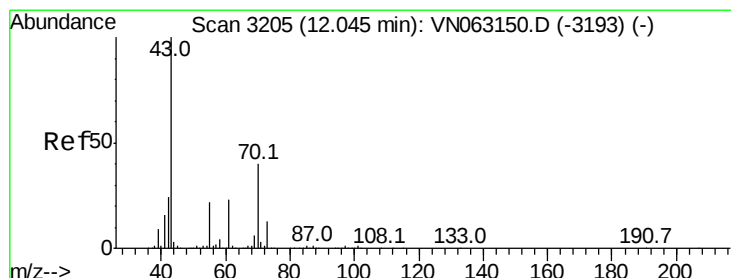
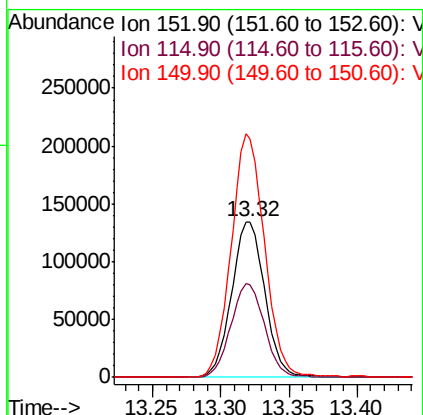
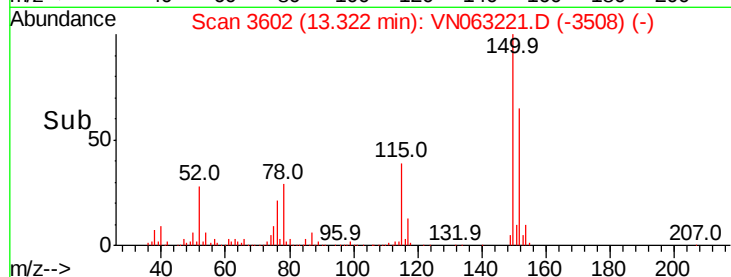
150 156.8 0.0 353.0



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: 0.408 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Tgt Ion: 43 Resp: 2952

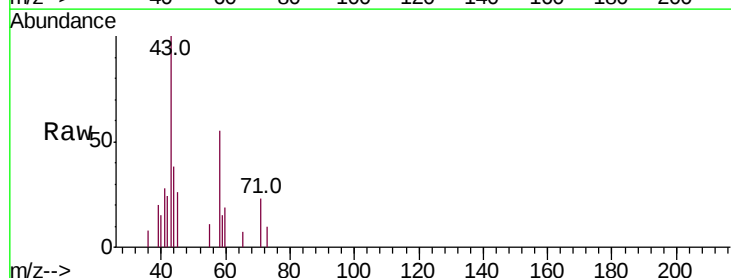
Ion Ratio Lower Upper

43 100

70 0.0 32.1 48.1#

55 8.7 17.4 26.0#

61 7.1 18.6 27.8#

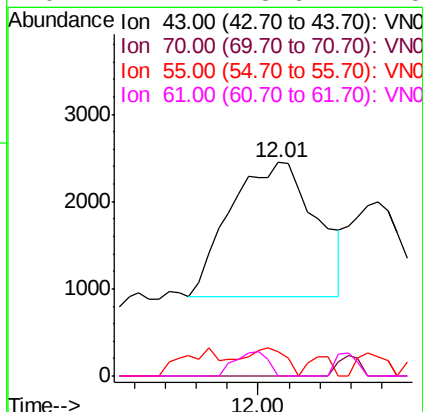
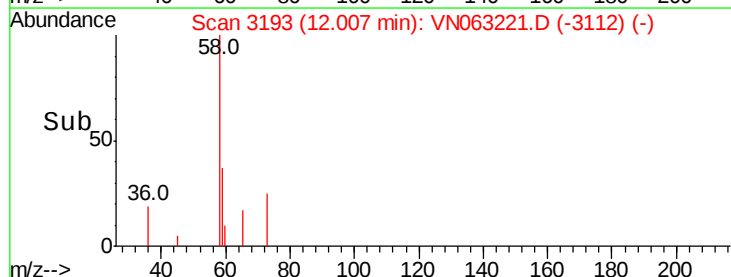


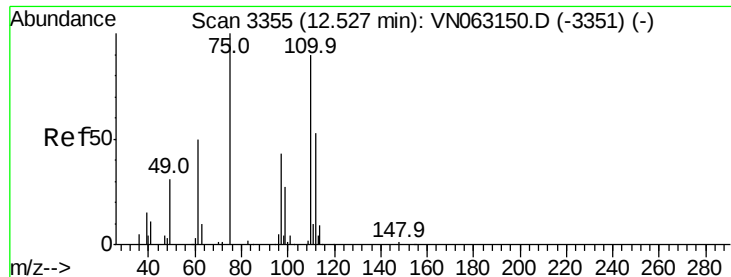
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 33.532 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

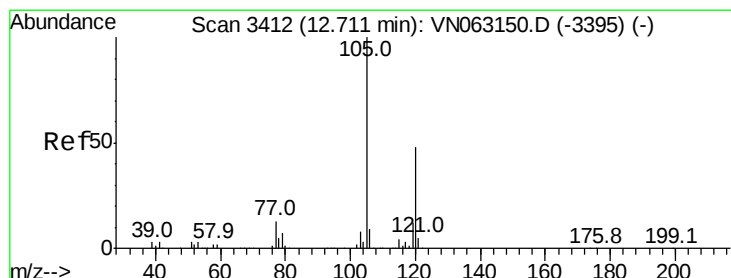
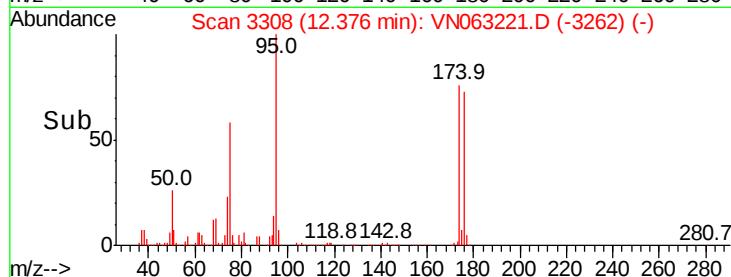
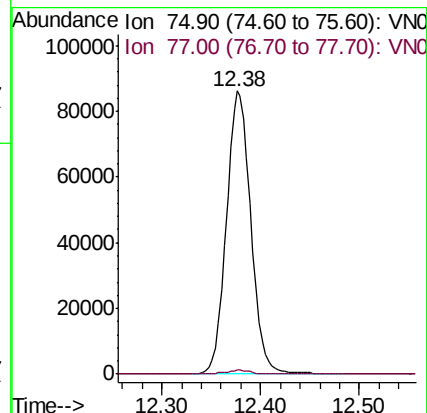
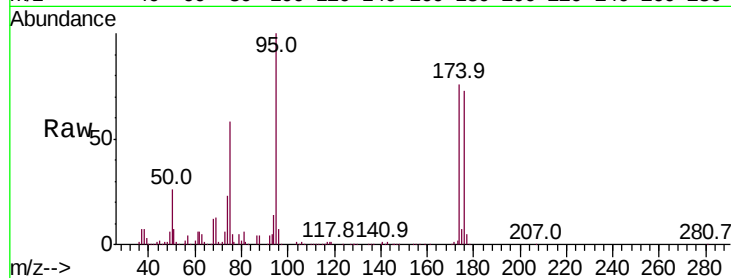
PB131386ZHE#10

Tot Ion: 75 Resp: 150051

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.728 ug/l

RT: 12.71 min Scan# 3412

Delta R.T. 0.00 min

Lab File: VN063221.D

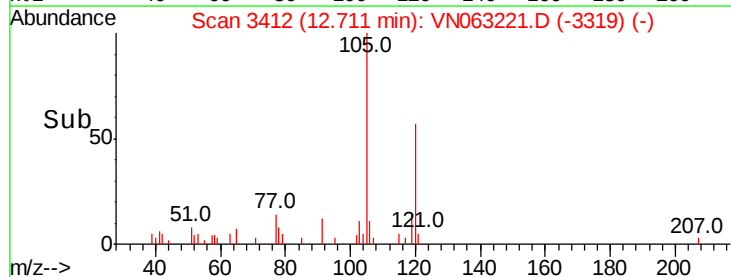
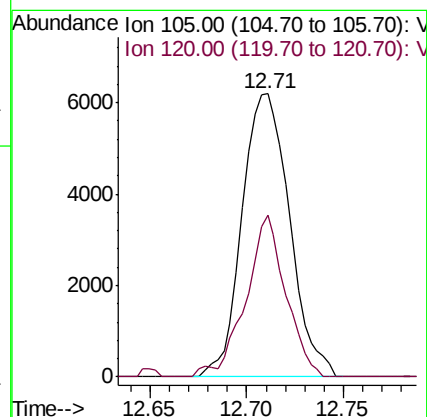
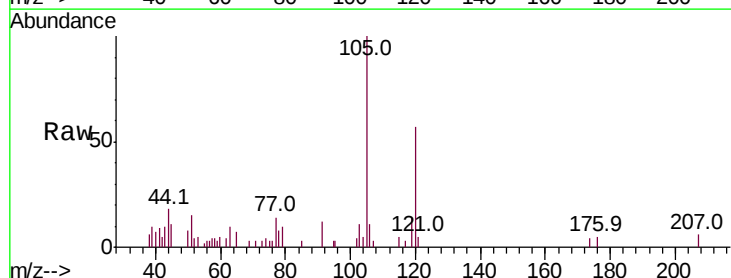
Acq: 3 Sep 2020 15:36

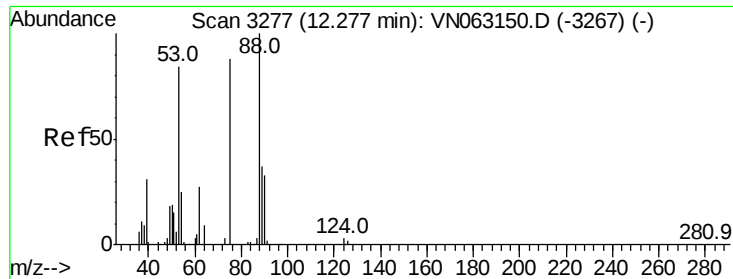
Tgt Ion: 105 Resp: 10580

Ion Ratio Lower Upper

105 100

120 48.1 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 81.045 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063221.D

Acq: 3 Sep 2020 15:36

Instrument :

MSVOA_N

ClientSampleId :

PB131386ZHE#10

Tot Ion: 75 Resp: 150051

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.1 35.3 52.9#

