

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063786.D
 Acq On : 1 Oct 2020 20:57
 Operator : JC/MD
 Sample : PB132009ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#08

Quant Time: Oct 02 02:17:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	220166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	423689	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	438609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	175363	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	190846	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
35) Dibromofluoromethane	7.55	113	137030	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	
50) Toluene-d8	10.06	98	533287	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
62) 4-Bromofluorobenzene	12.38	95	213710	51.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.02%	

Target Compounds						Qvalue
16) Acetone	3.77	43	21356	19.073	ug/l	97
17) Carbon Disulfide	4.00	76	124	0.721	ug/l #	76
18) Methyl Acetate	4.29	43	4157	1.430	ug/l #	64
20) Methylene Chloride	4.51	84	7099	2.861	ug/l #	81
25) 2-Butanone	6.80	43	2053	1.293	ug/l	91
31) Cyclohexane	7.62	56	6586	1.560	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	21636	5.041	ug/l #	50
38) Carbon Tetrachloride	7.63	117	25311	5.259	ug/l #	16
43) Isopropyl Acetate	8.13	43	77501	11.018	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1760	0.532	ug/l #	44
48) Methyl methacrylate	9.23	41	139965	40.274	ug/l #	47
49) 1,4-Dioxane	9.23	88	128	2.592	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6830	1.655	ug/l #	74
54) cis-1,3-Dichloropropene	9.87	75	32007	6.065	ug/l #	69
56) Ethyl methacrylate	10.51	69	1027	0.238	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5396	1.049	ug/l #	43
59) 2-Hexanone	10.74	43	90686	29.573	ug/l #	53
74) N-amyl acetate	12.01	43	4088	2.873	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	122054	31.574	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	6106	0.569	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	122054	90.937	ug/l #	6
95) Naphthalene	15.11	128	62	1.931	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

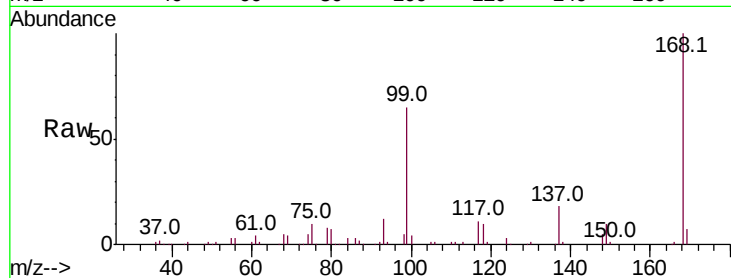
PB132009ZHE#08

Tot Ion:168 Resp: 220166

Ion Ratio Lower Upper

168 100

99 64.7 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

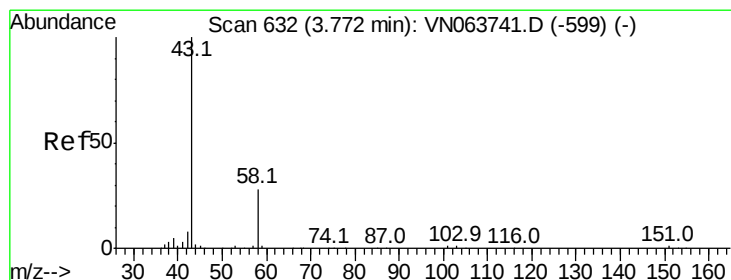
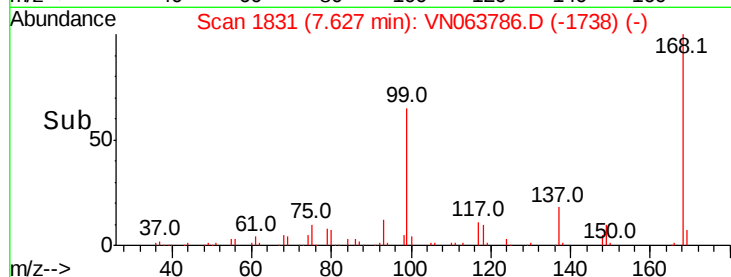
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 19.073 ug/l

RT: 3.77 min Scan# 632

Delta R.T. 0.00 min

Lab File: VN063786.D

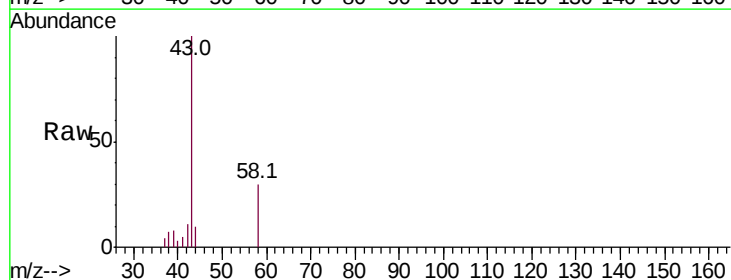
Acq: 1 Oct 2020 20:57

Tgt Ion: 43 Resp: 21356

Ion Ratio Lower Upper

43 100

58 29.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.77

8000

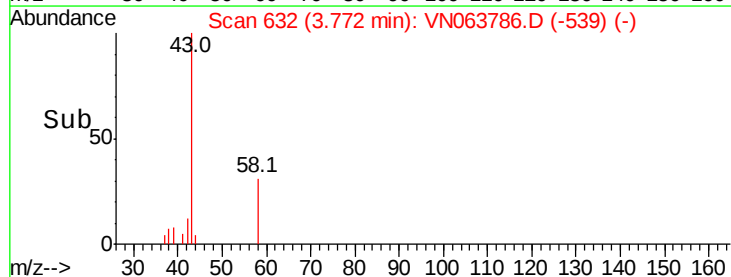
6000

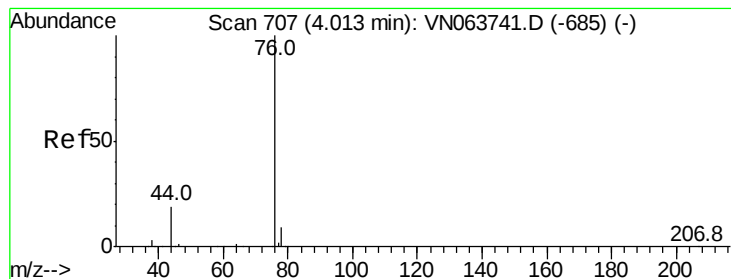
4000

2000

0

Time--> 3.70 3.80 3.90





#17

Carbon Disulfide

Concen: 0.721 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

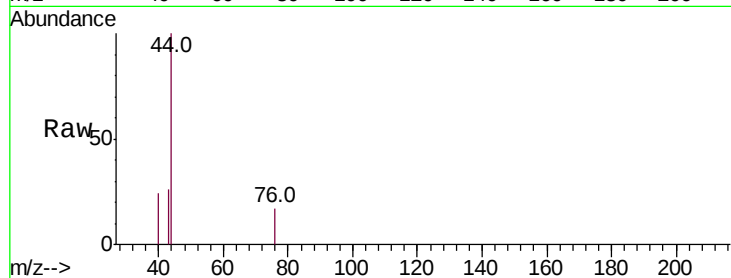
PB132009ZHE#08

Tot Ion: 76 Resp: 124

Ion Ratio Lower Upper

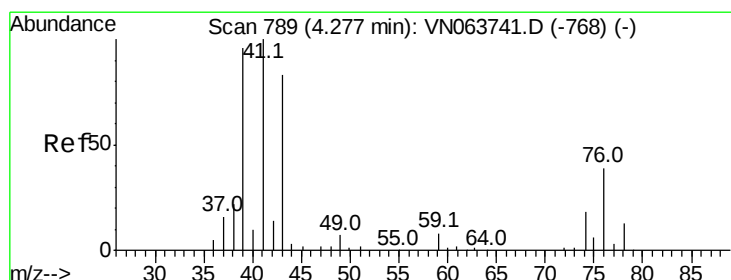
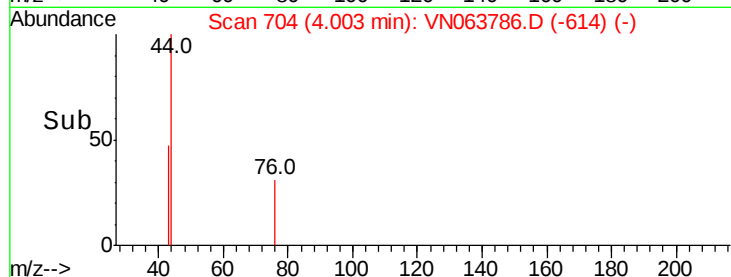
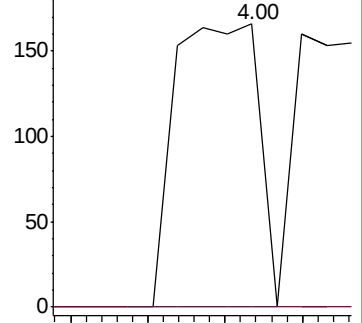
76 100

78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.430 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN063786.D

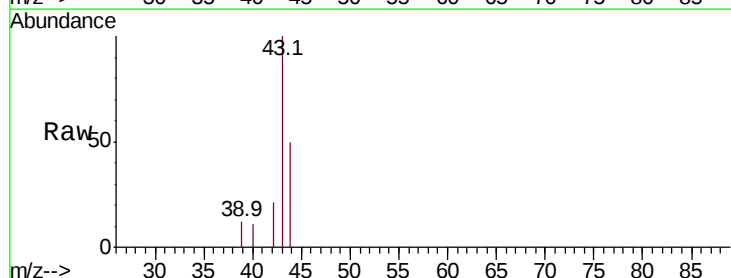
Acq: 1 Oct 2020 20:57

Tgt Ion: 43 Resp: 4157

Ion Ratio Lower Upper

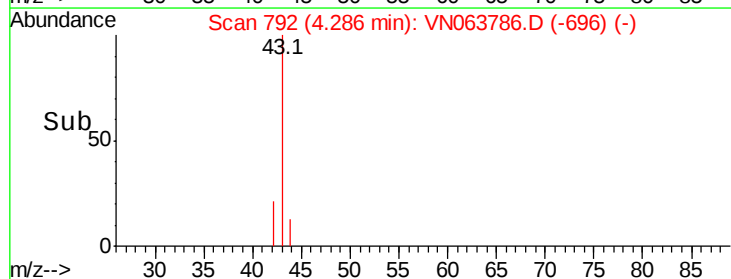
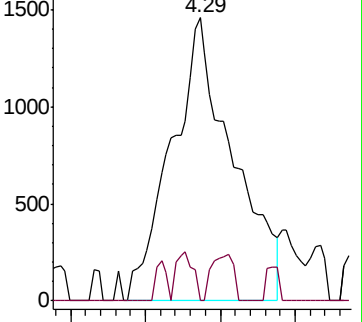
43 100

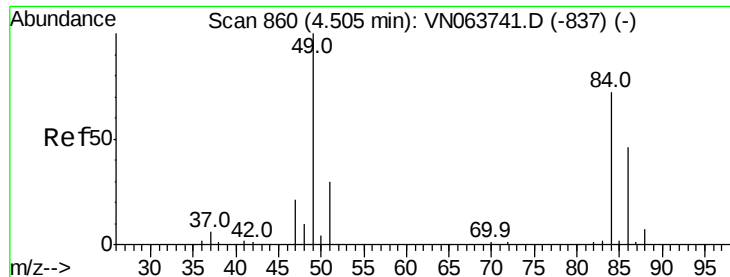
74 4.7 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

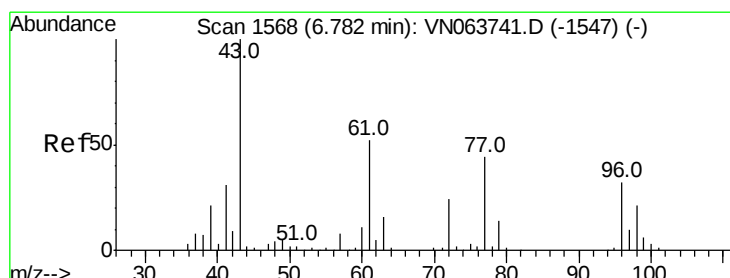
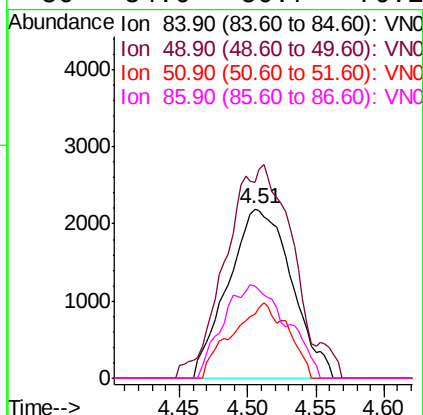
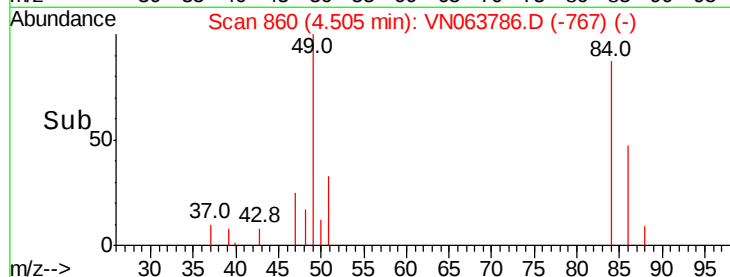
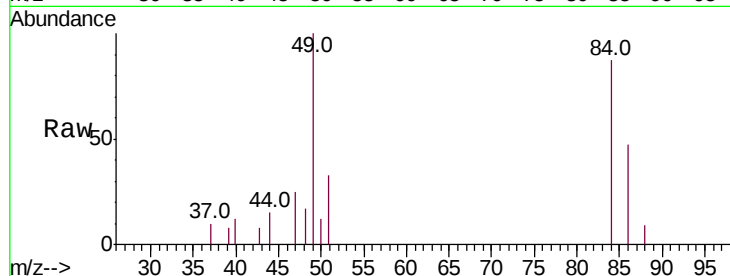




#20
Methvlene Chloride
Concen: 2.861 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063786.D
Acq: 1 Oct 2020 20:57

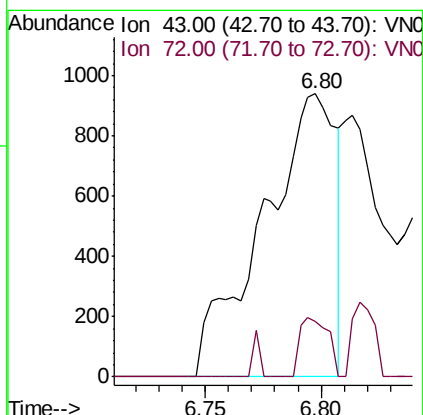
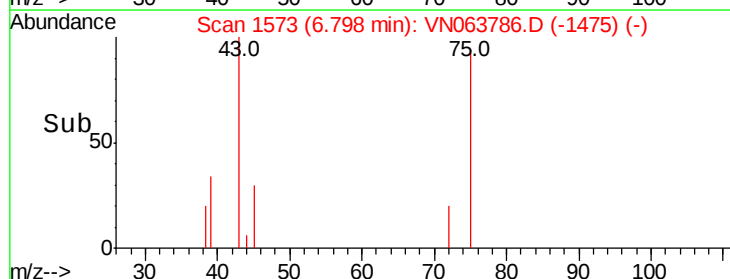
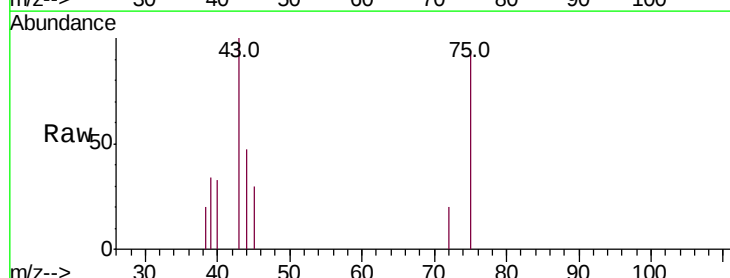
Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#08

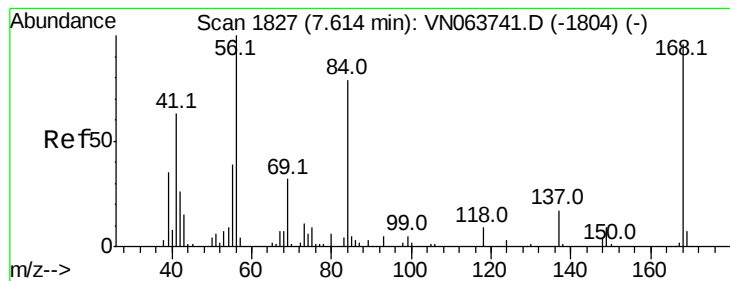
Tot Ion: 84 Resp: 7099
Ion Ratio Lower Upper
84 100
49 105.5 110.4 165.6#
51 37.6 33.3 49.9
86 54.6 50.7 76.1



#25
2-Butanone
Concen: 1.293 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.02 min
Lab File: VN063786.D
Acq: 1 Oct 2020 20:57

Tgt Ion: 43 Resp: 2053
Ion Ratio Lower Upper
43 100
72 19.7 19.3 28.9





#31

Cyclohexane

Concen: 1.560 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

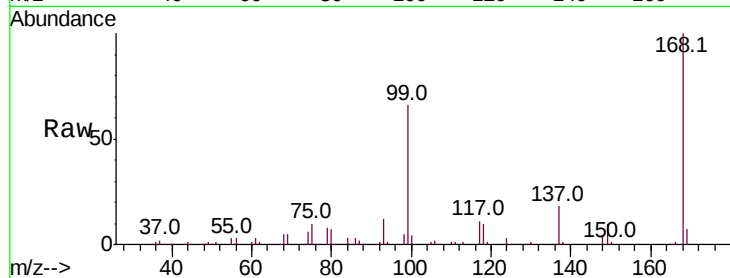
Tot Ion: 56 Resp: 6586

Ion Ratio Lower Upper

56 100

69 158.2 25.4 38.2#

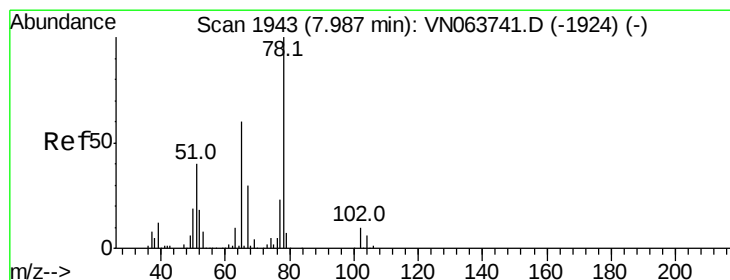
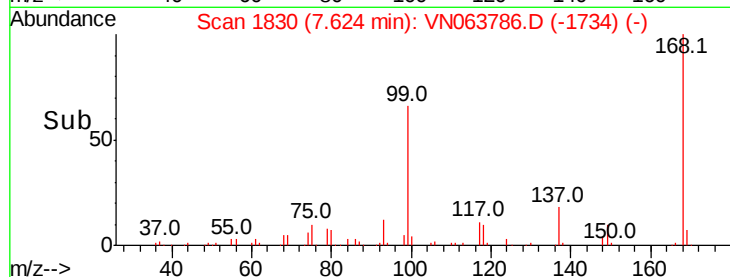
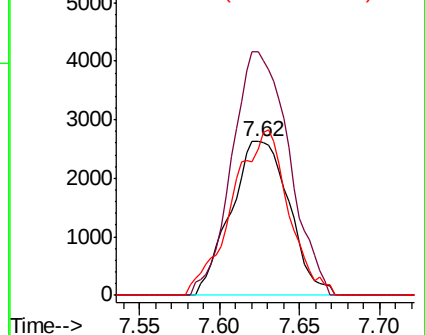
84 95.0 63.3 94.9#



Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.469 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063786.D

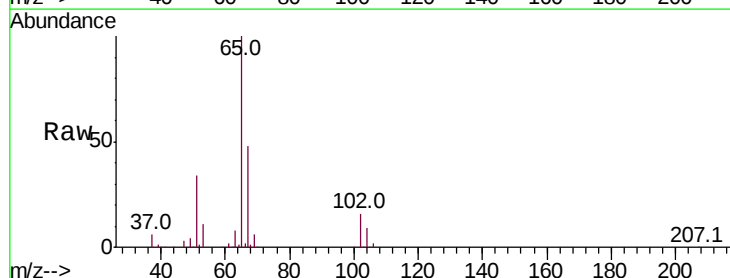
Acq: 1 Oct 2020 20:57

Tgt Ion: 65 Resp: 190846

Ion Ratio Lower Upper

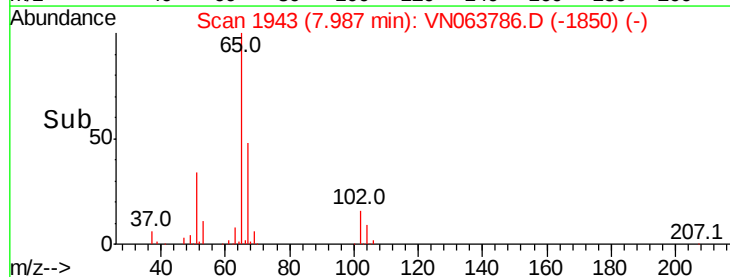
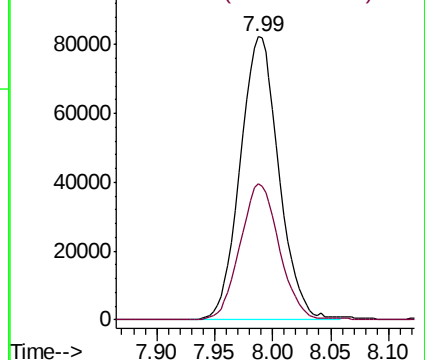
65 100

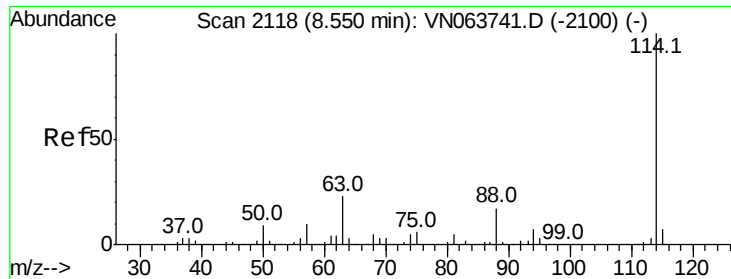
67 48.6 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

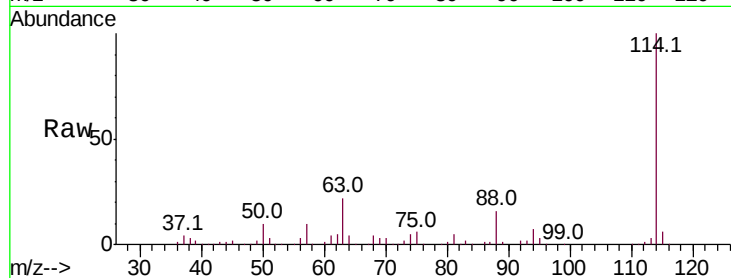
Tot Ion:114 Resp: 423689

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.0

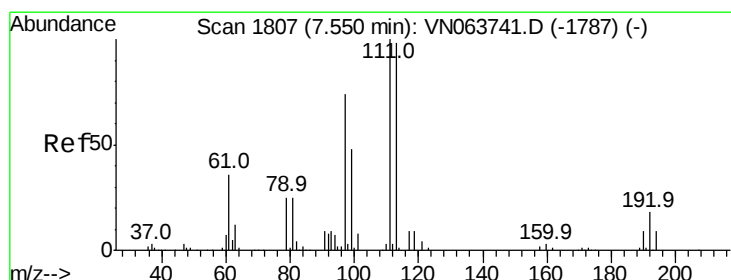
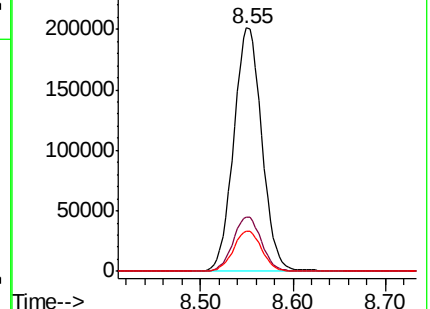
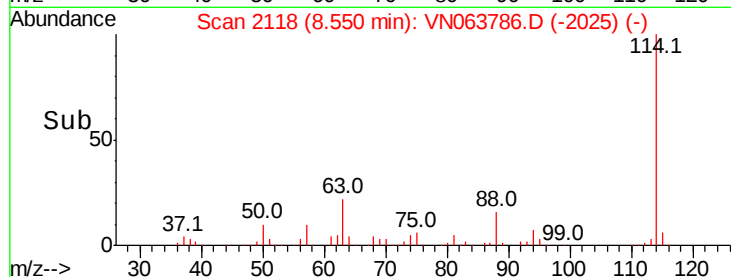
88 16.4 0.0 34.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.611 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

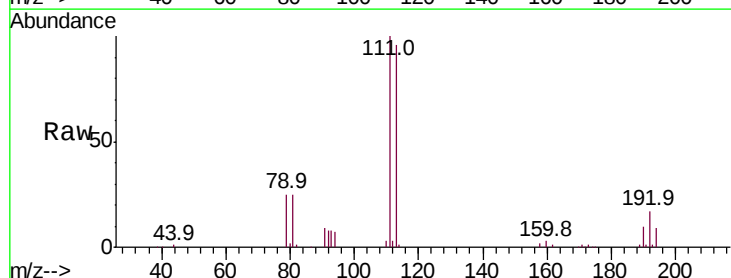
Tgt Ion:113 Resp: 137030

Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

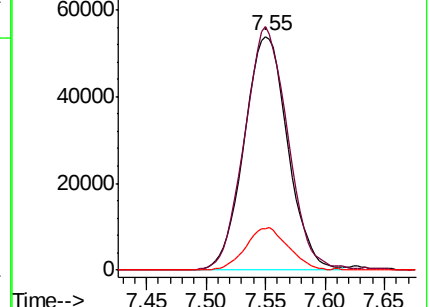
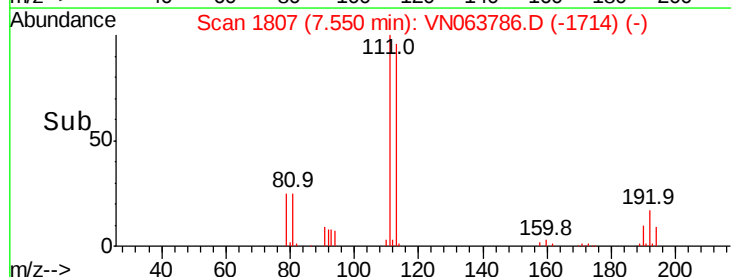
192 17.9 14.2 21.2

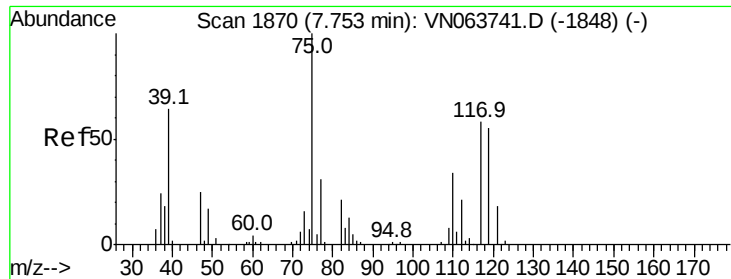


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

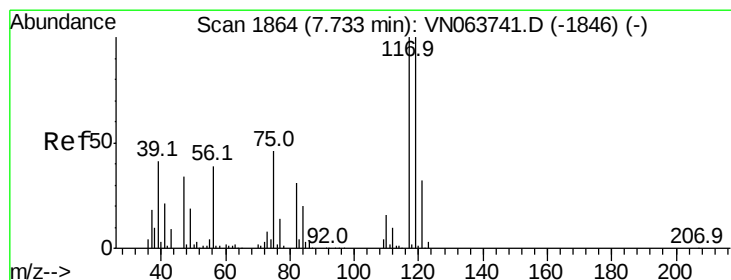
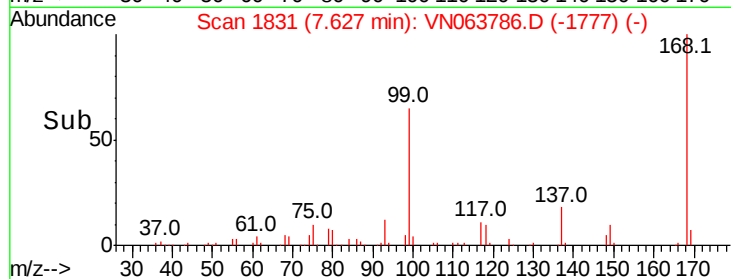
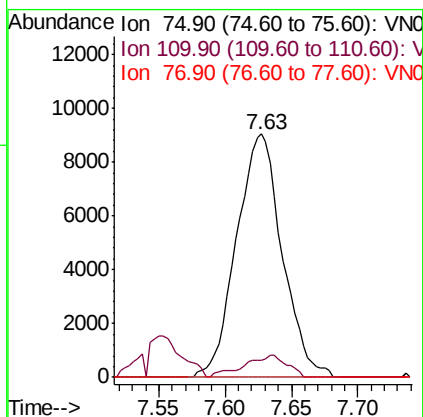
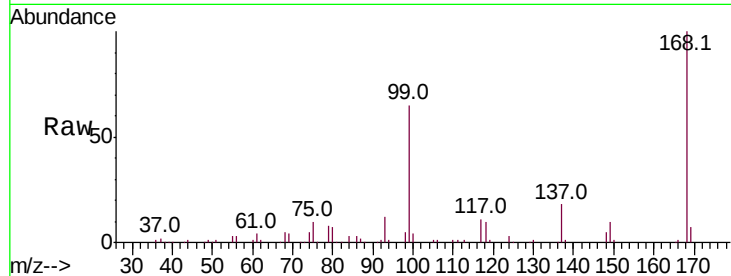




#36
 1,1-Dichloropropene
 Concen: 5.041 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

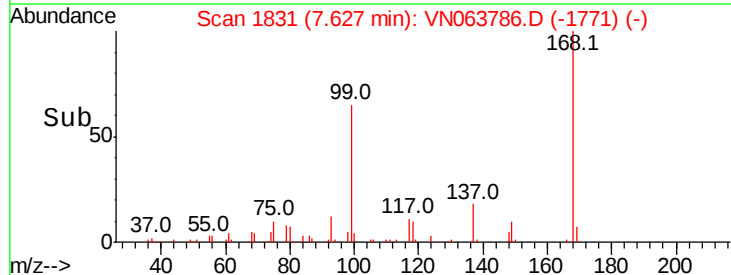
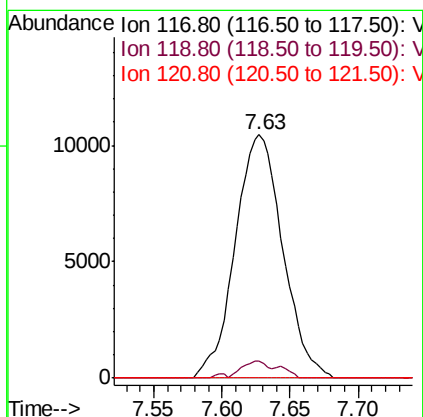
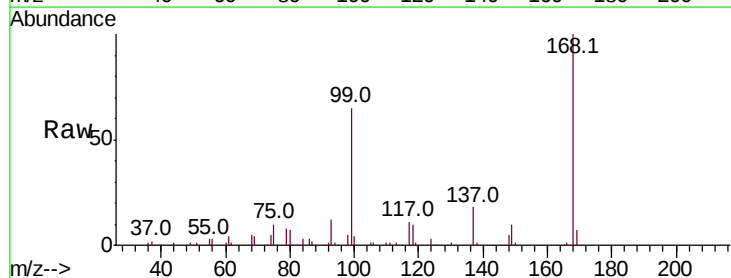
Instrument :
 MSVOA_N
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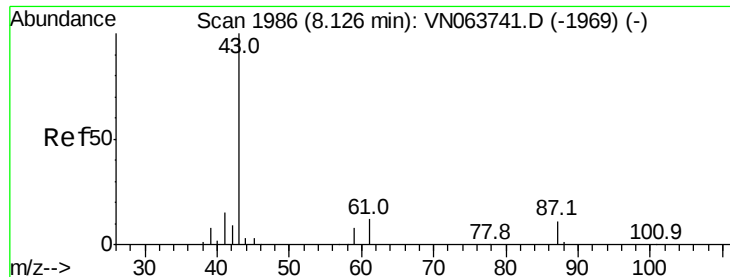
Tot Ion: 75 Resp: 21636
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.259 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

Tgt Ion: 117 Resp: 25311
 Ion Ratio Lower Upper
 117 100
 119 7.0 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 11.018 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

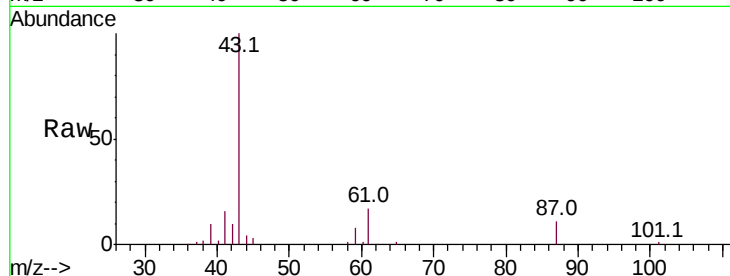
Tot Ion: 43 Resp: 77501

Ion Ratio Lower Upper

43 100

61 16.8 14.2 21.4

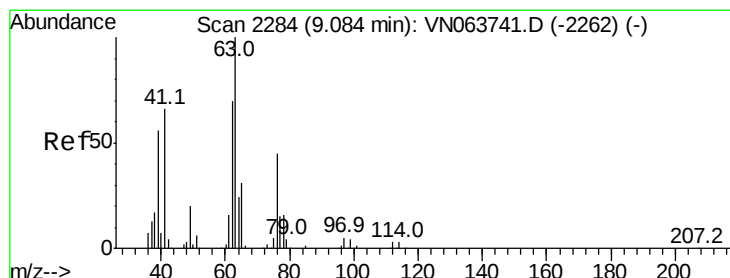
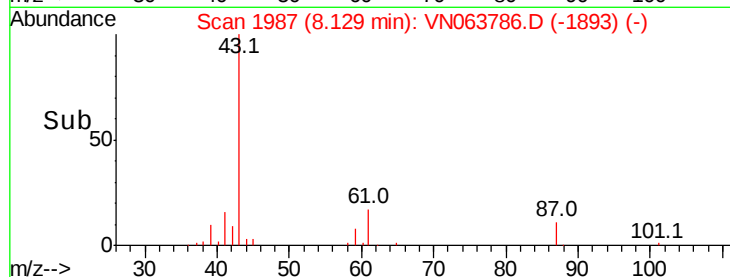
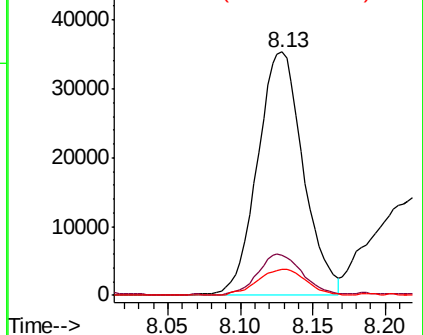
87 11.3 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.532 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063786.D

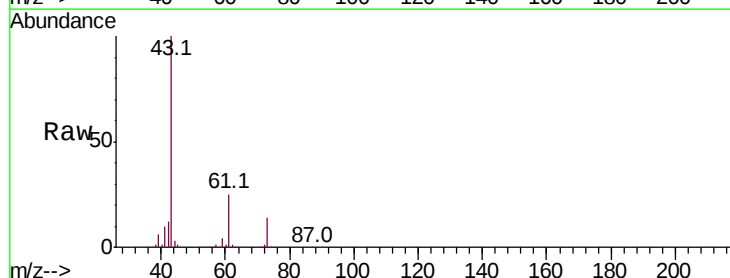
Acq: 1 Oct 2020 20:57

Tgt Ion: 63 Resp: 1760

Ion Ratio Lower Upper

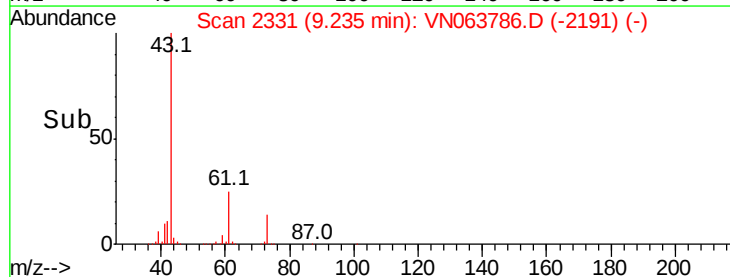
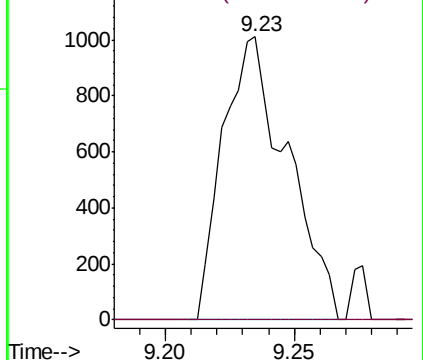
63 100

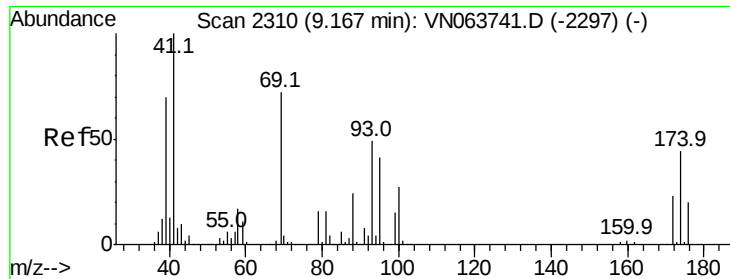
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO





#48

Methyl methacrylate

Concen: 40.274 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

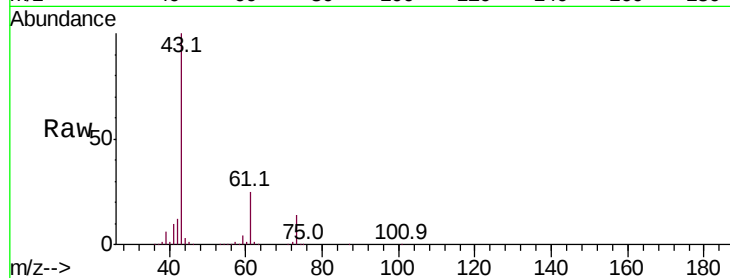
Tot Ion: 41 Resp: 139965

Ion Ratio Lower Upper

41 100

69 0.0 60.9 91.3#

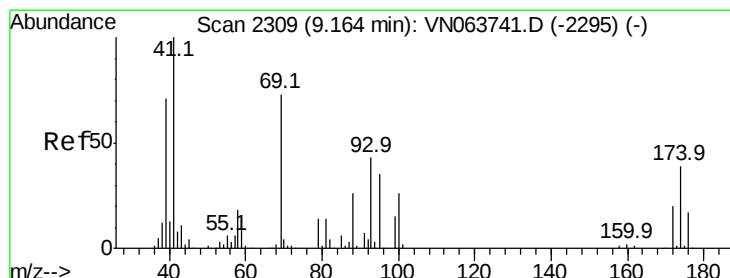
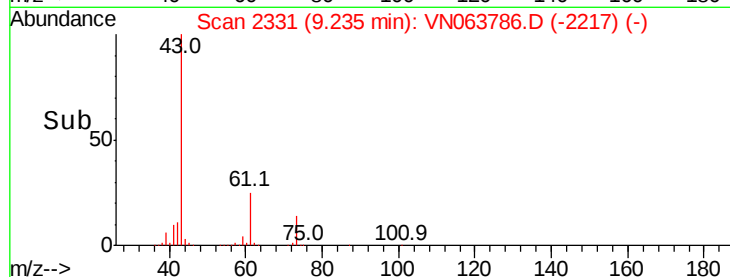
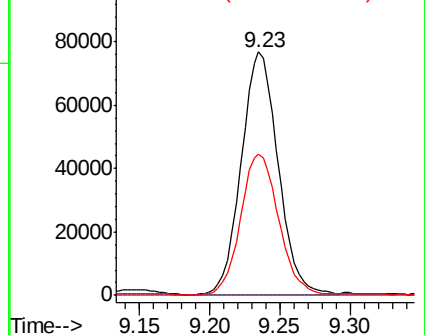
39 60.0 57.5 86.3



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#49

1,4-Dioxane

Concen: 2.592 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

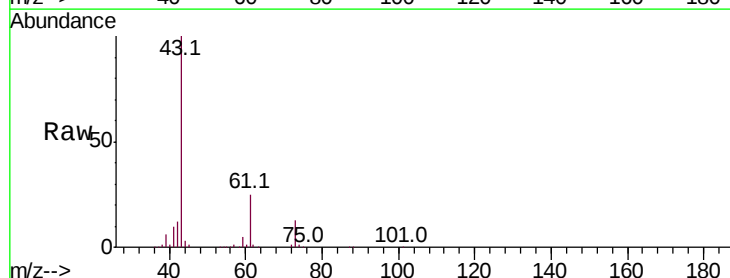
Tgt Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 1065022.7 33.1 49.7#

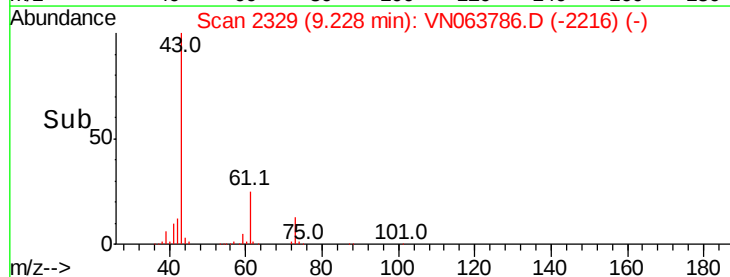
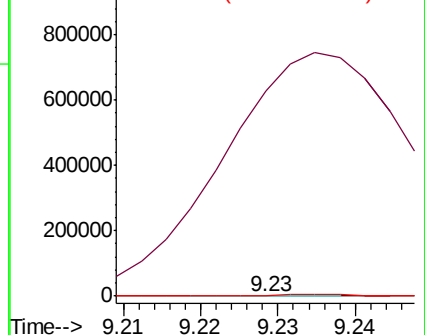
58 5062.5 58.9 88.3#

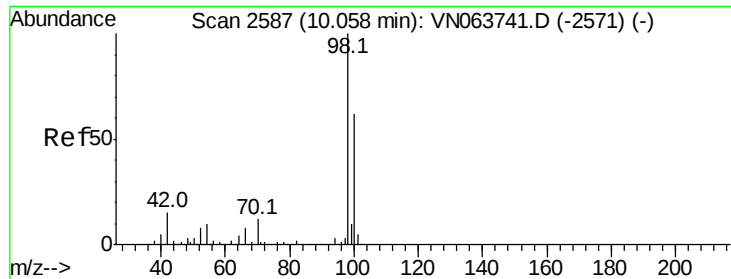


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 47.851 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

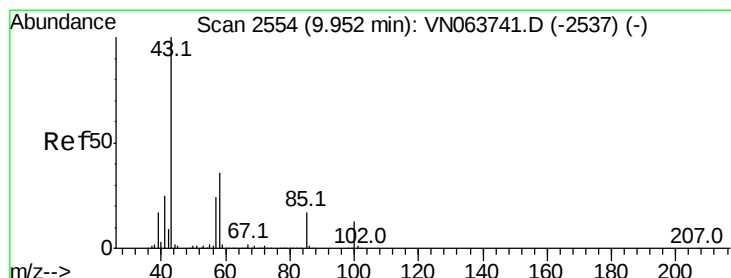
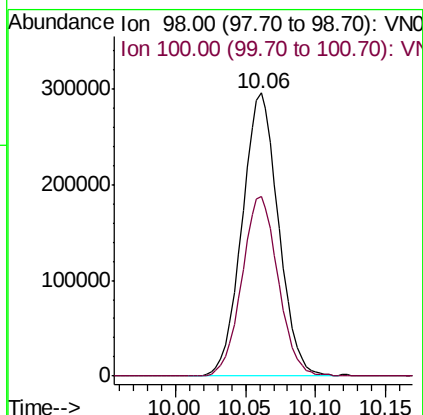
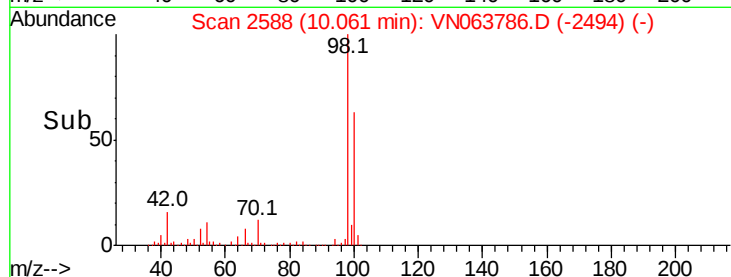
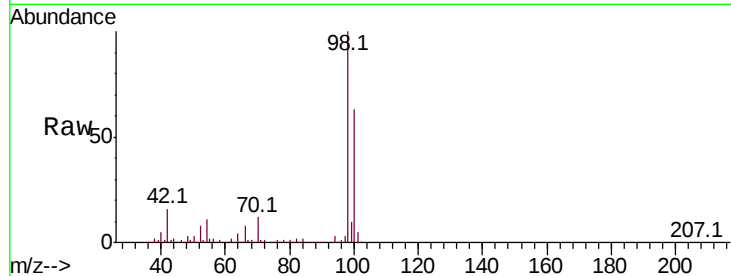
PB132009ZHE#08

Tot Ion: 98 Resp: 533287

Ion Ratio Lower Upper

98 100

100 63.4 49.8 74.6



#51

4-Methyl-2-Pentanone

Concen: 1.655 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063786.D

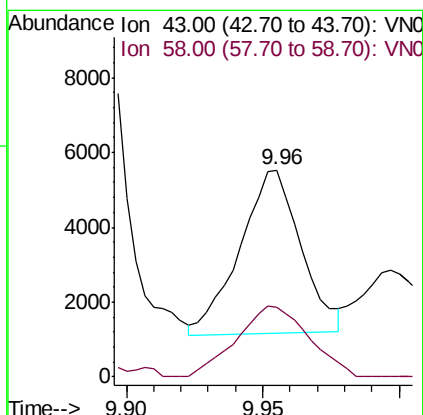
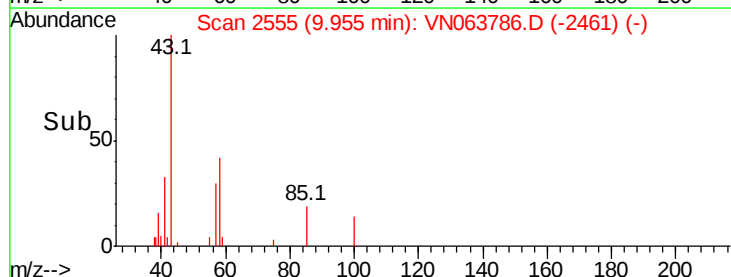
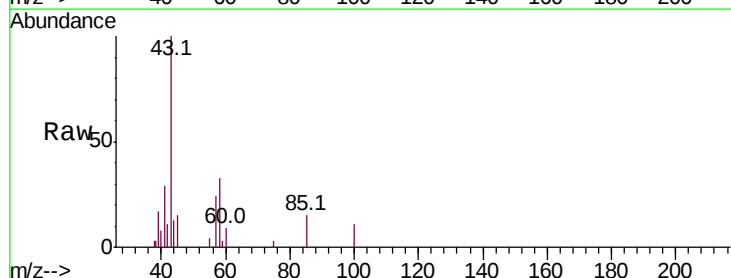
Acq: 1 Oct 2020 20:57

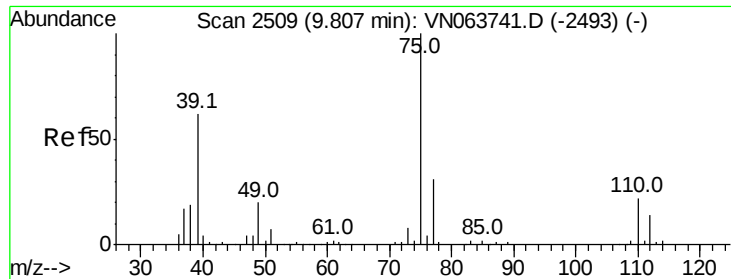
Tgt Ion: 43 Resp: 6830

Ion Ratio Lower Upper

43 100

58 50.8 28.4 42.6#



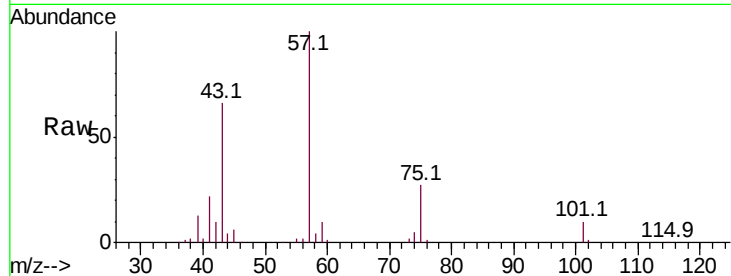


#54

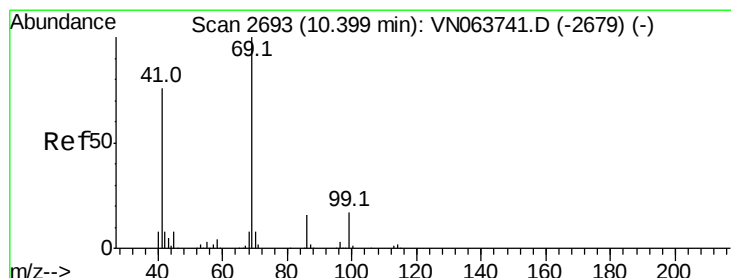
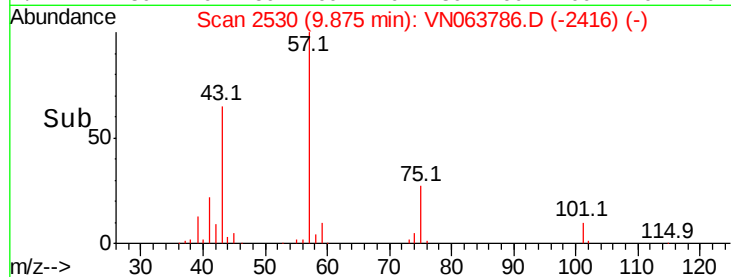
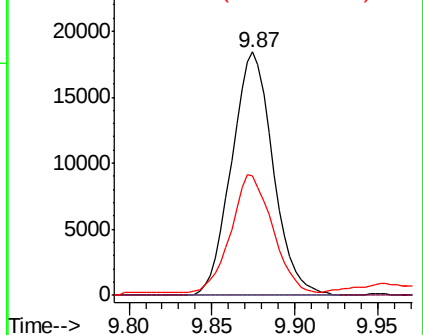
cis-1,3-Dichloropropene
 Concen: 6.065 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#08

Tot Ion: 75 Resp: 32007
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#
 39 47.7 49.7 74.5#



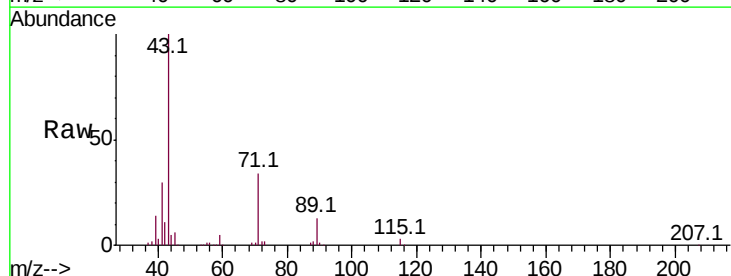
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



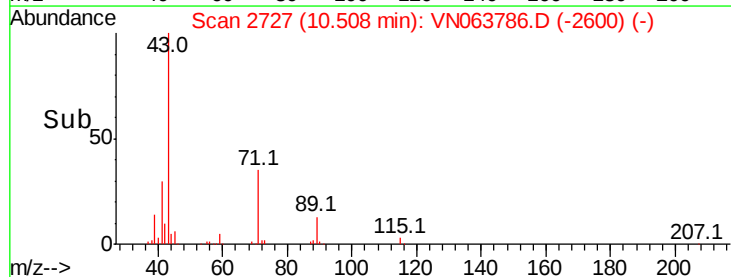
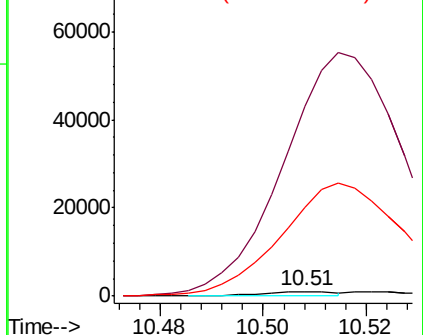
#56

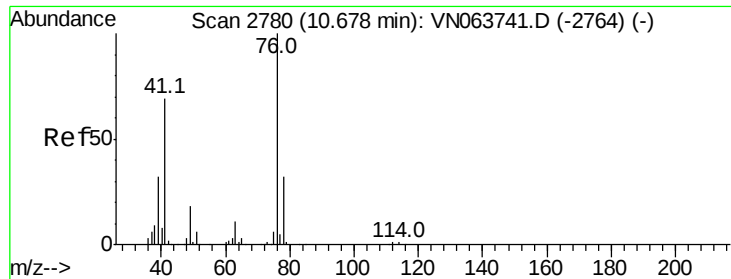
Ethyl methacrylate
 Concen: 0.238 ug/l
 RT: 10.51 min Scan# 2727
 Delta R.T. 0.11 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

Tgt Ion: 69 Resp: 1027
 Ion Ratio Lower Upper
 69 100
 41 8984.8 61.1 91.7#
 39 4137.6 42.2 63.4#



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





#57

1,3-Dichloropropane

Concen: 1.049 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

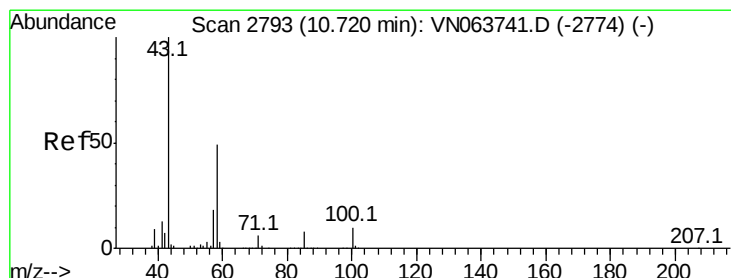
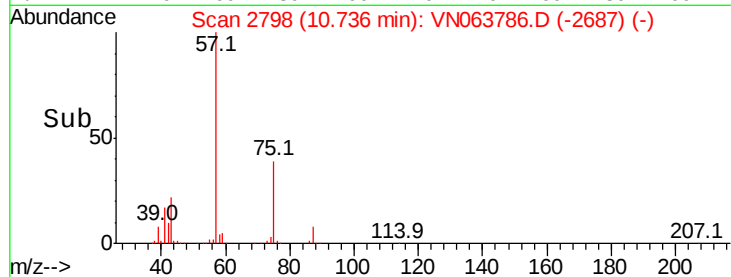
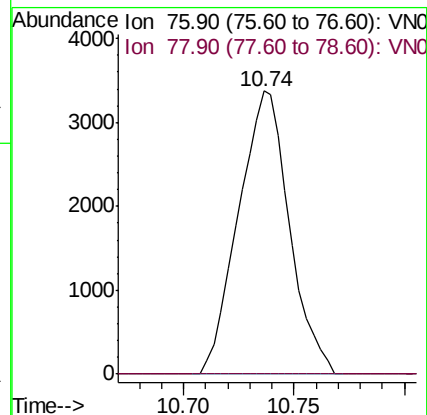
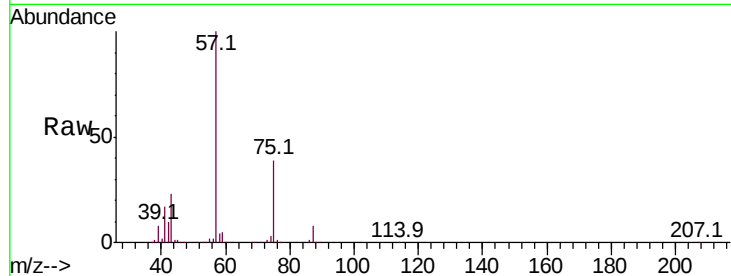
PB132009ZHE#08

Tot Ion: 76 Resp: 5396

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#



#59

2-Hexanone

Concen: 29.573 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063786.D

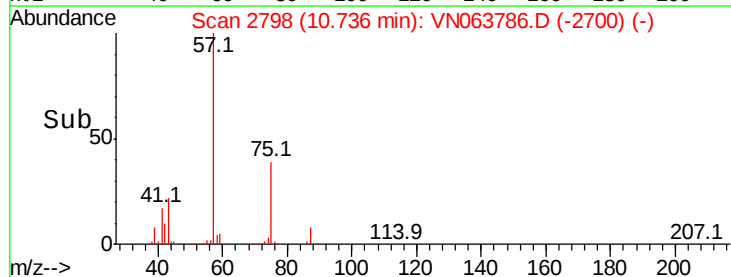
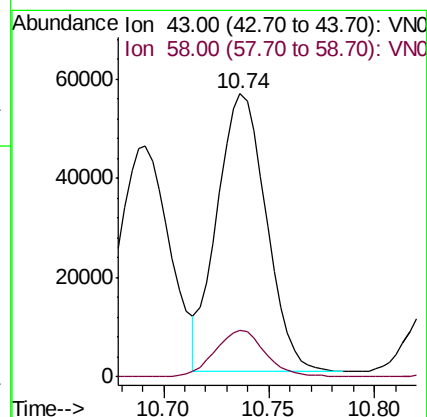
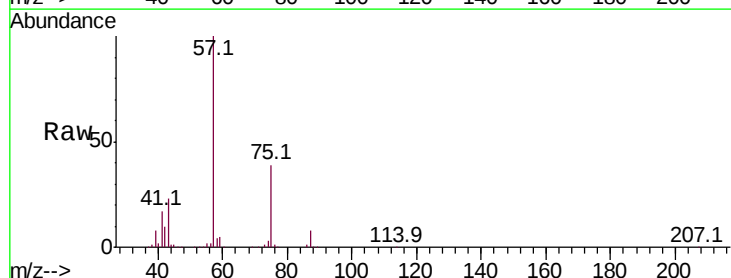
Acq: 1 Oct 2020 20:57

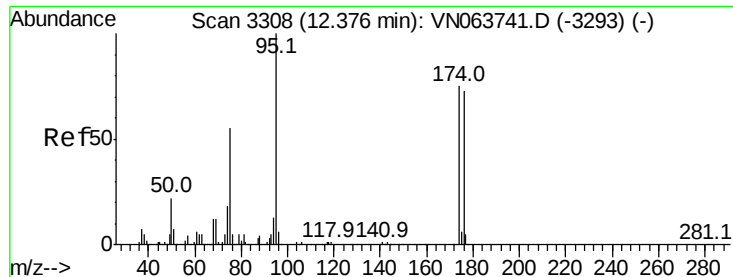
Tgt Ion: 43 Resp: 90686

Ion Ratio Lower Upper

43 100

58 17.3 24.6 73.8#

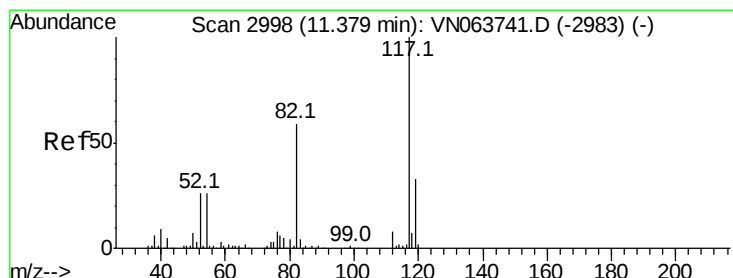
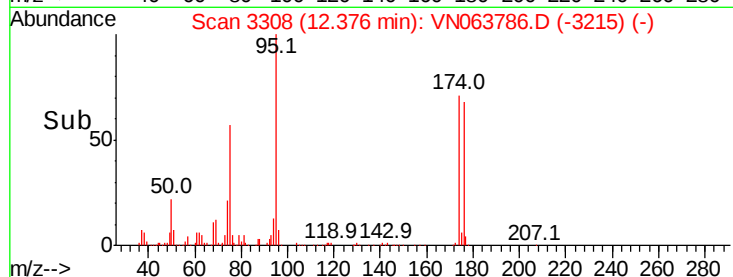
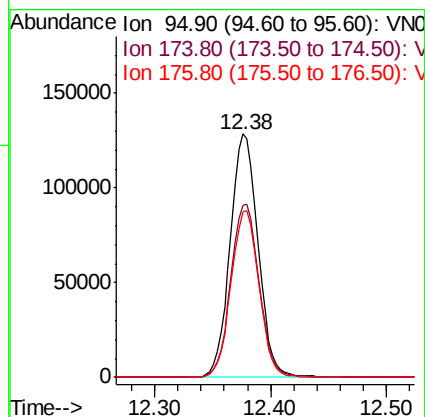
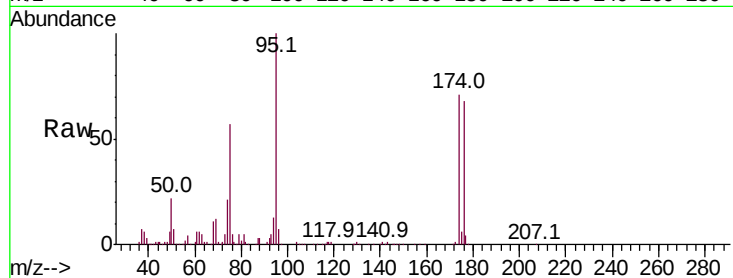




#62
4-Bromofluorobenzene
Concen: 51.012 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063786.D
Acq: 1 Oct 2020 20:57

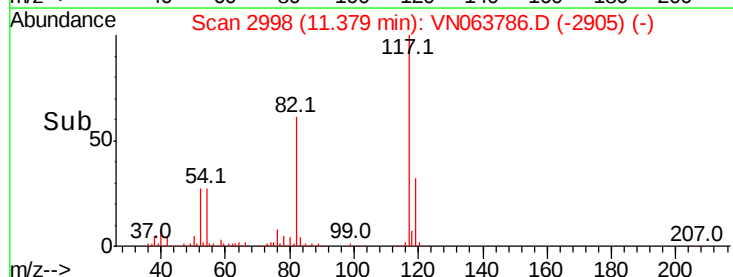
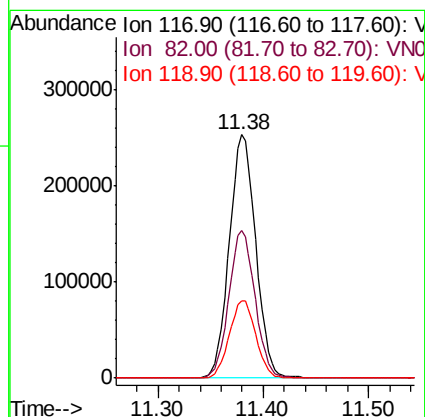
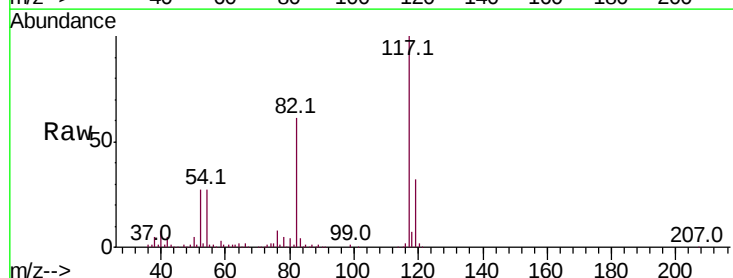
Instrument :
MSVOA_N
ClientSampleId :
PB132009ZHE#08

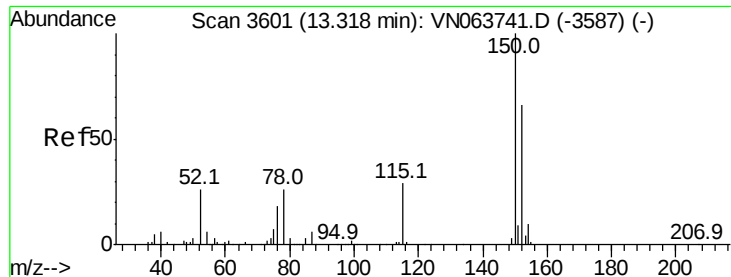
Tot Ion: 95 Resp: 213710
Ion Ratio Lower Upper
95 100
174 72.5 0.0 150.6
176 68.9 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063786.D
Acq: 1 Oct 2020 20:57

Tgt Ion: 117 Resp: 438609
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 31.9 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

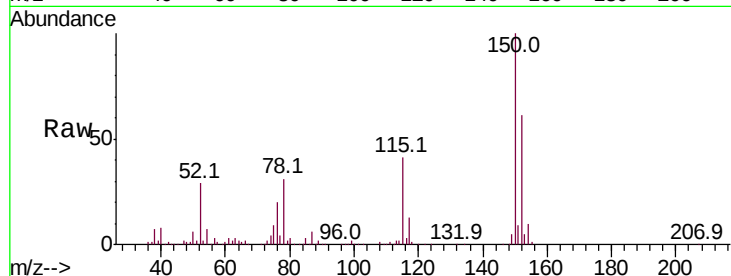
Tot Ion:152 Resp: 175363

Ion Ratio Lower Upper

152 100

115 63.9 31.3 93.8

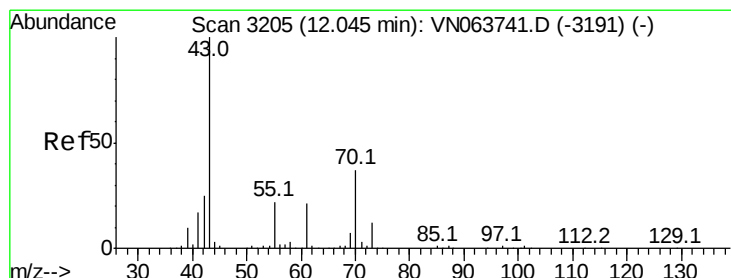
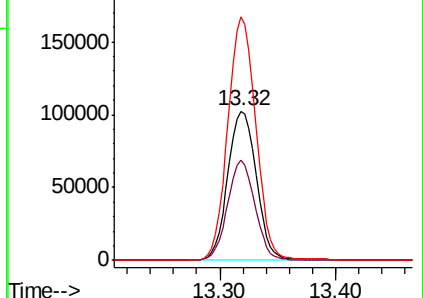
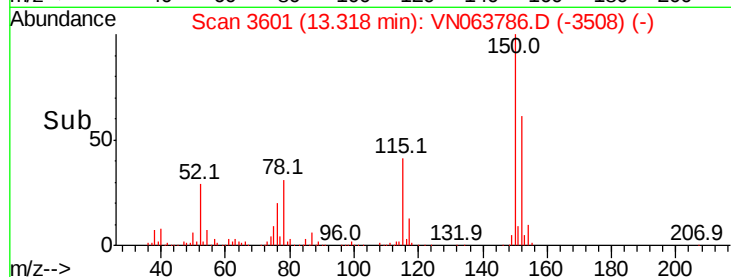
150 158.7 0.0 341.8



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: 2.873 ug/l

RT: 12.01 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Tgt Ion: 43 Resp: 4088

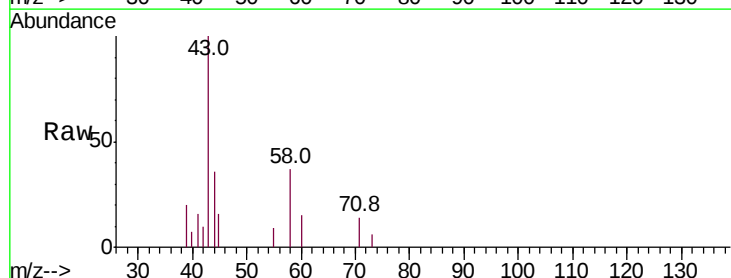
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 6.4 17.9 26.9#

61 0.0 17.0 25.4#

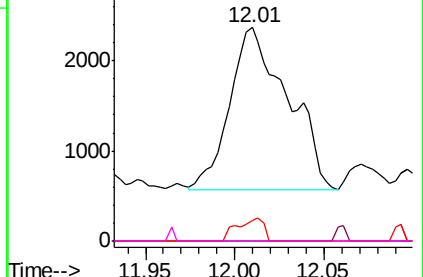
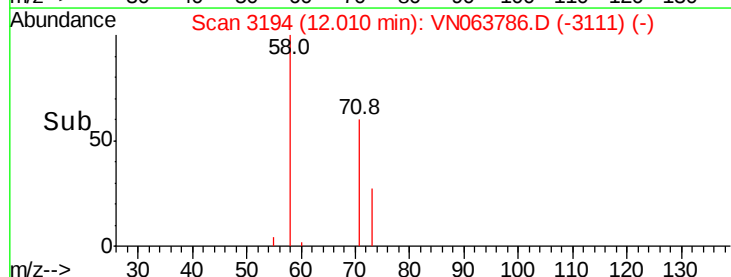


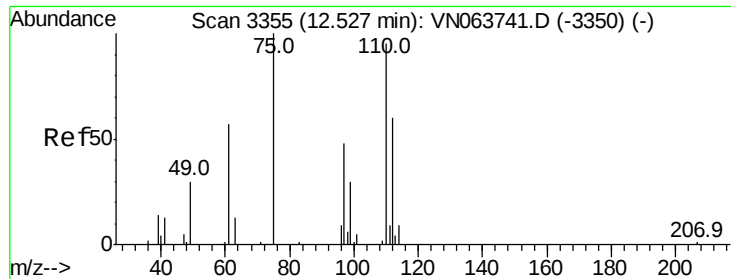
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

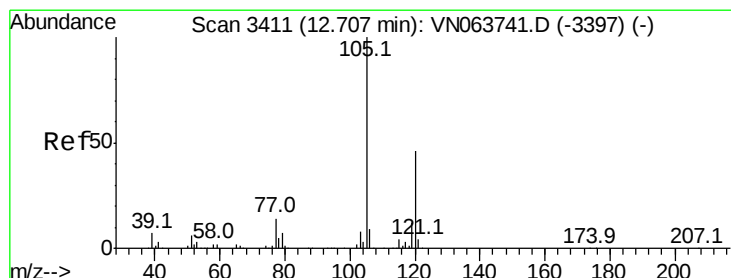
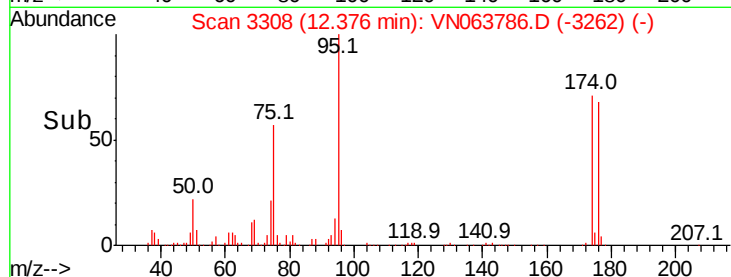
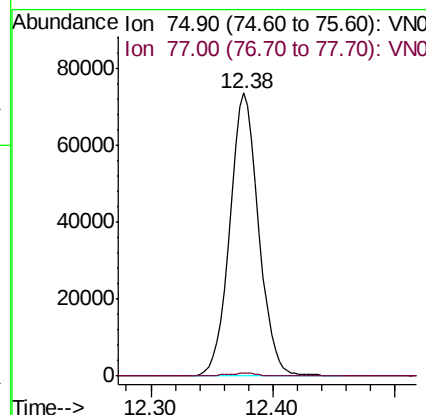
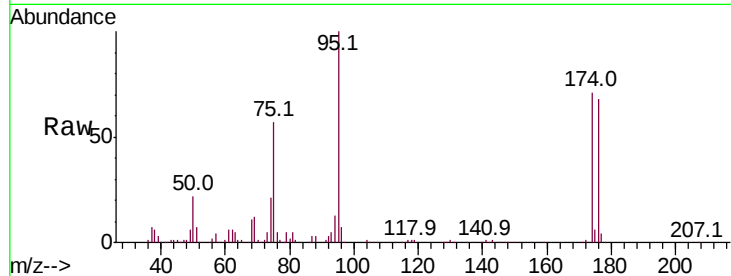




#76
 1,2,3-Trichloropropane
 Concen: 31.574 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

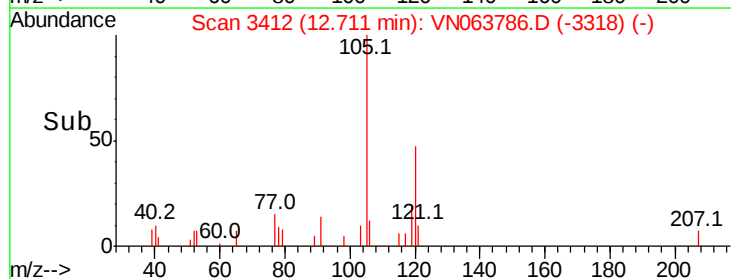
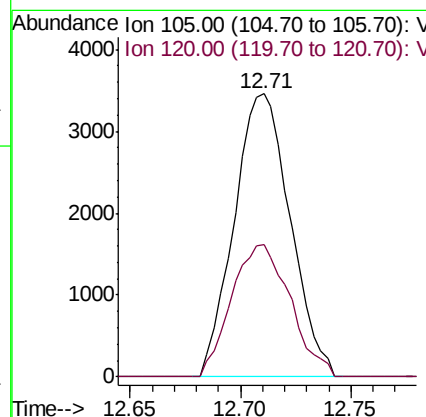
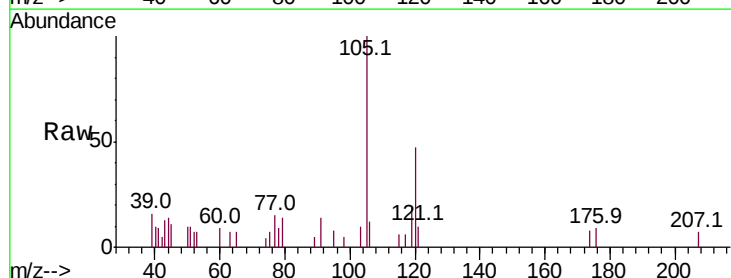
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132009ZHE#08

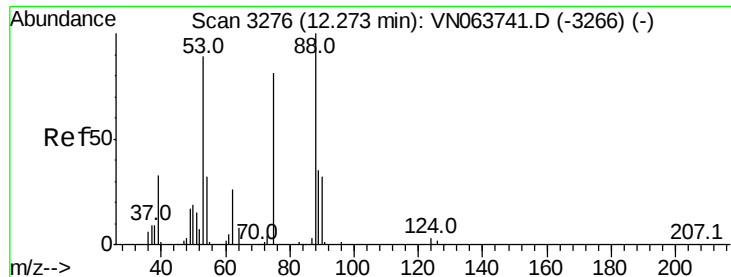
Tot Ion: 75 Resp: 122054
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.569 ug/l
 RT: 12.71 min Scan# 3412
 Delta R.T. 0.00 min
 Lab File: VN063786.D
 Acq: 1 Oct 2020 20:57

Tgt Ion: 105 Resp: 6106
 Ion Ratio Lower Upper
 105 100
 120 49.0 23.3 69.9





#81

trans-1,4-Dichloro-2-butene

Concen: 90.937 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

Instrument :

MSVOA_N

ClientSampleId :

PB132009ZHE#08

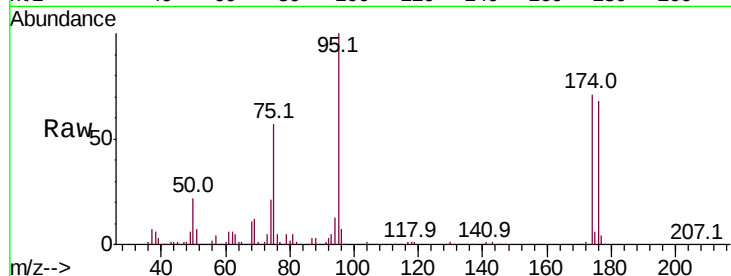
Tot Ion: 75 Resp: 122054

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

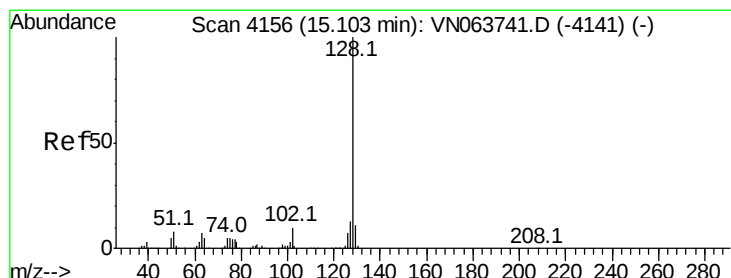
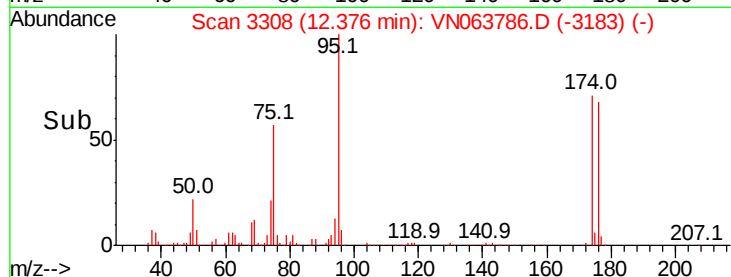
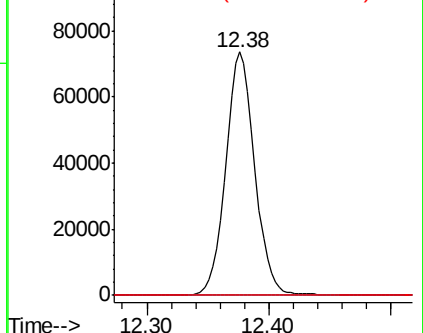
89 0.1 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN063741.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN063741.D (-3266) (-)



#95

Naphthalene

Concen: 1.931 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063786.D

Acq: 1 Oct 2020 20:57

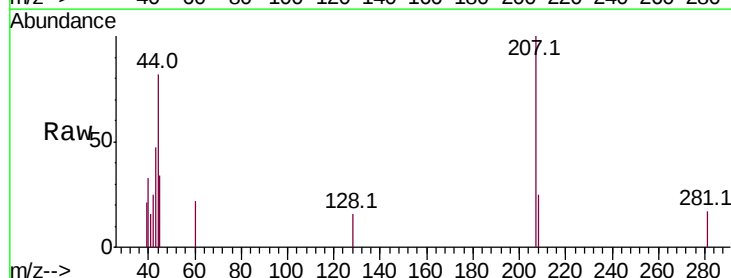
Tgt Ion: 128 Resp: 62

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN063741.D (-4141) (-)

Ion 127.00 (126.70 to 127.70): VN063741.D (-4141) (-)

Ion 129.00 (128.70 to 129.70): VN063741.D (-4141) (-)

