

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082020\
 Data File : VN063065.D
 Acq On : 21 Aug 2020 4:05
 Operator : JC/MD
 Sample : PB131102TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131102TB

Quant Time: Aug 21 06:42:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	145284	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	245688	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	271581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	95322	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	99842	57.98	ug/l	0.00
Spiked Amount			Recovery	=	115.96%	
35) Dibromofluoromethane	7.55	113	84300	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
50) Toluene-d8	10.06	98	334102	54.33	ug/l	0.00
Spiked Amount			Recovery	=	108.66%	
62) 4-Bromofluorobenzene	12.38	95	111038	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	

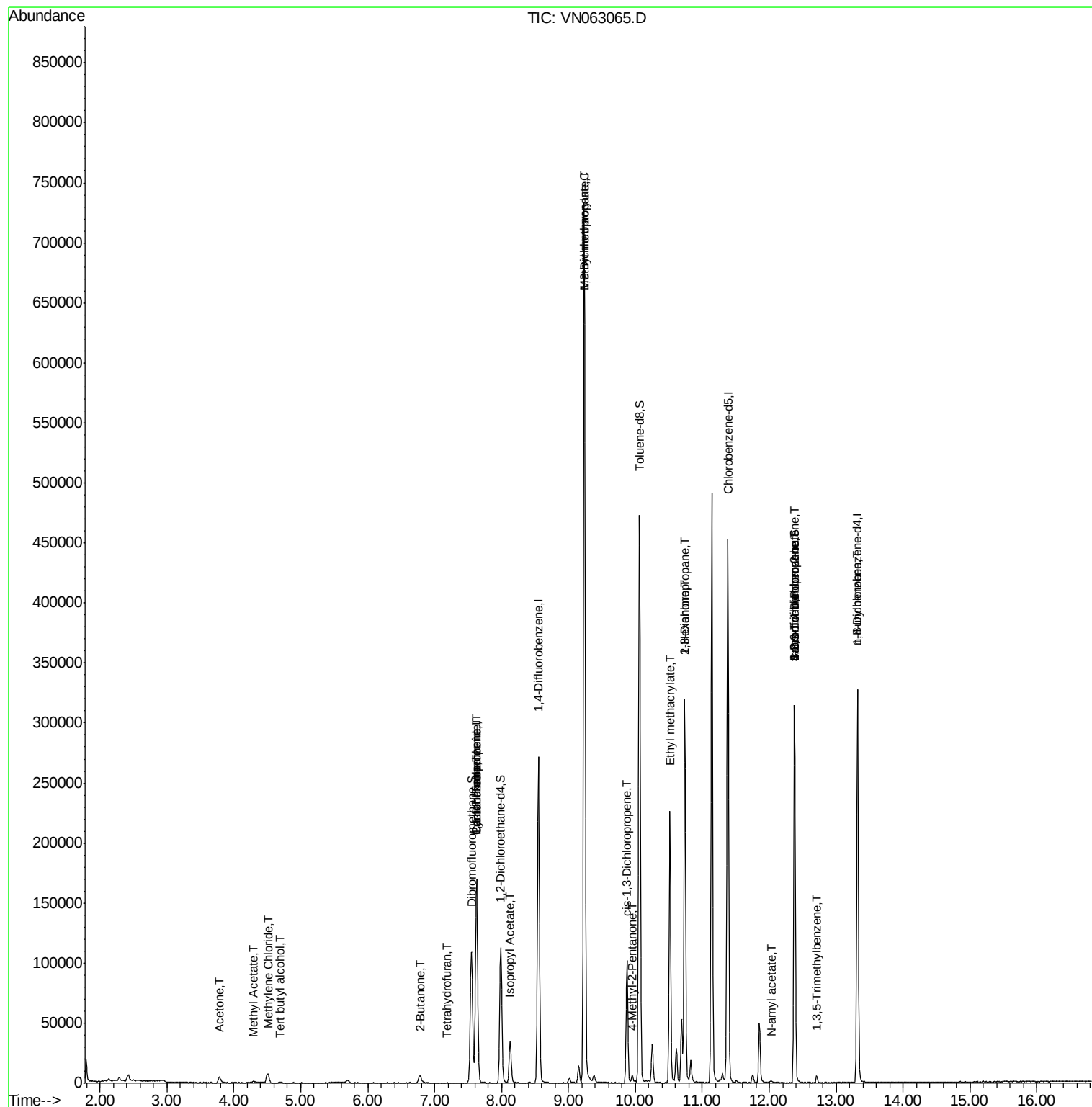
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	502	2.058	ug/l #	74
16) Acetone	3.79	43	8485	12.069	ug/l	97
18) Methyl Acetate	4.28	43	639	0.373	ug/l #	88
20) Methylene Chloride	4.51	84	5957	2.659	ug/l	97
25) 2-Butanone	6.80	43	836	0.915	ug/l #	48
29) Tetrahydrofuran	7.18	42	160	0.271	ug/l #	34
31) Cyclohexane	7.63	56	2618	1.032	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10387	4.797	ug/l #	48
38) Carbon Tetrachloride	7.62	117	13528	6.189	ug/l #	16
43) Isopropyl Acetate	8.13	43	39724	11.819	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	919	0.463	ug/l #	43
48) Methyl methacrylate	9.24	41	66709	41.948	ug/l #	37
51) 4-Methyl-2-Pentanone	9.96	43	3934	1.852	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	17766	6.236	ug/l #	69
56) Ethyl methacrylate	10.52	69	1409	2.238	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2930	0.996	ug/l #	42
59) 2-Hexanone	10.74	43	43950	29.659	ug/l #	52
71) Bromoform	12.38	173	1090	0.645	ug/l #	1
74) N-amyl acetate	12.02	43	1371	0.586	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	54152	29.226	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3583	0.664	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.38	75	54152	80.269	ug/l #	15
89) n-Butylbenzene	13.32	91	60	2.782	ug/l #	34

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 19 06:09:27 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

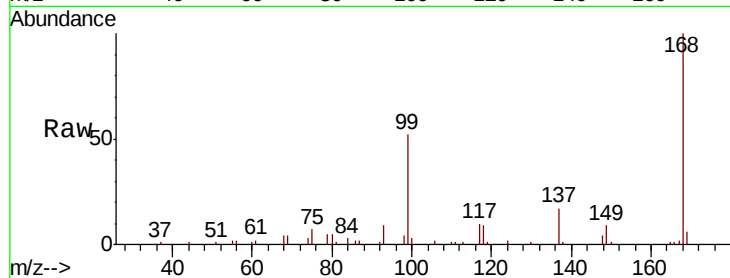
PB131102TB

Tot Ion:168 Resp: 145284

Ion Ratio Lower Upper

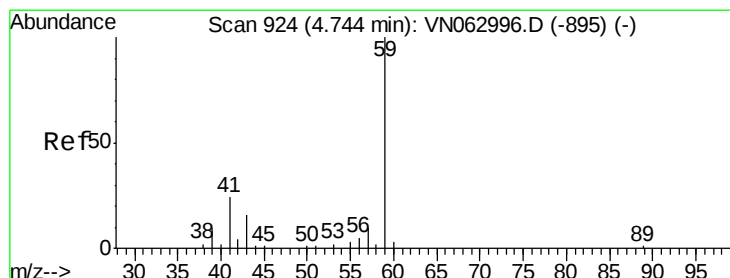
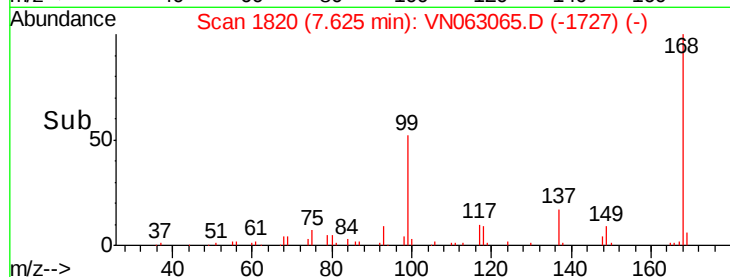
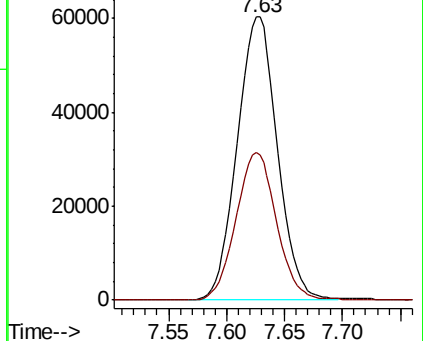
168 100

99 52.3 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 2.058 ug/l

RT: 4.69 min Scan# 906

Delta R.T. -0.06 min

Lab File: VN063065.D

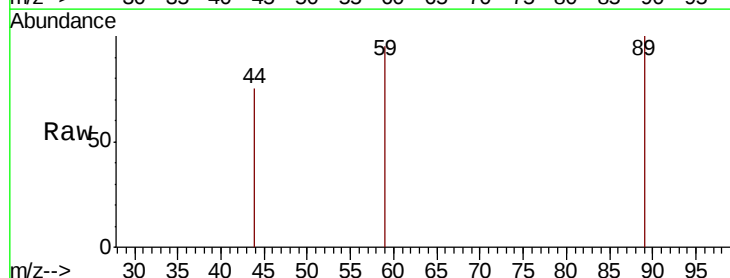
Acq: 21 Aug 2020 4:05

Tgt Ion: 59 Resp: 502

Ion Ratio Lower Upper

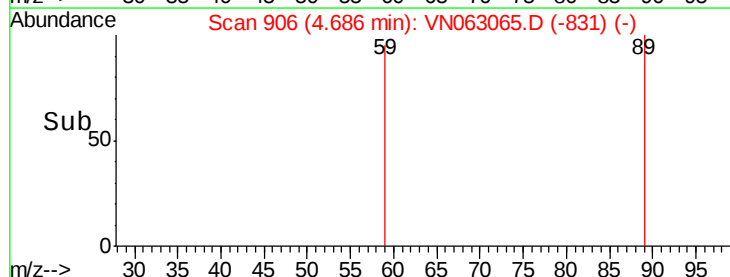
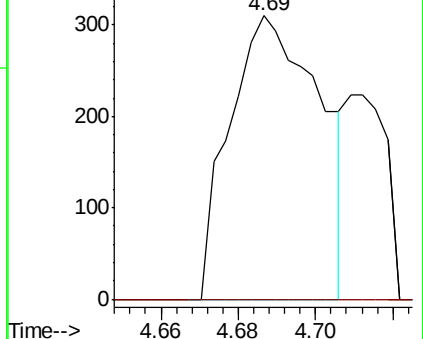
59 100

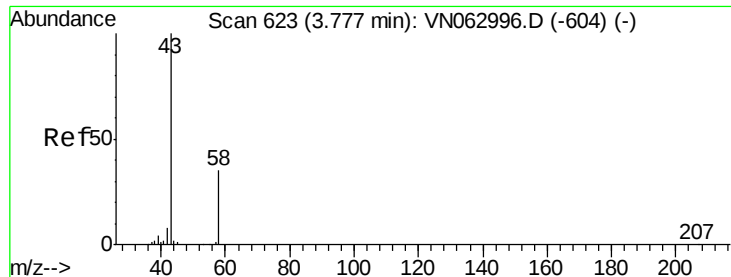
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 12.069 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

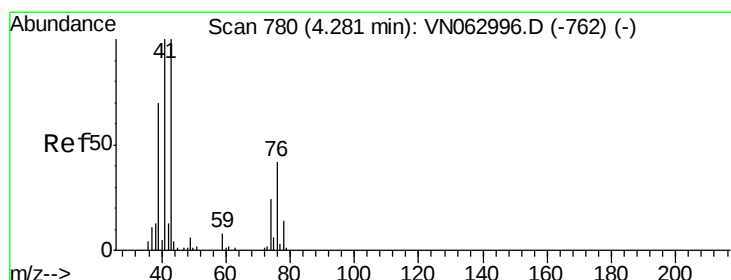
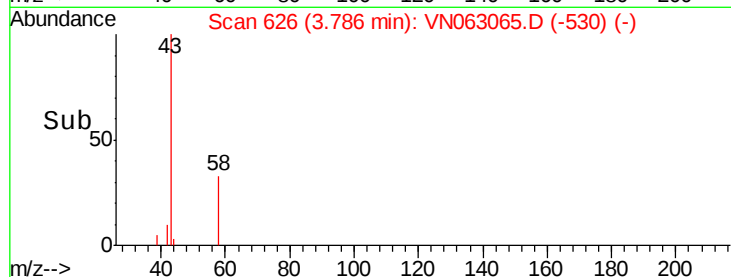
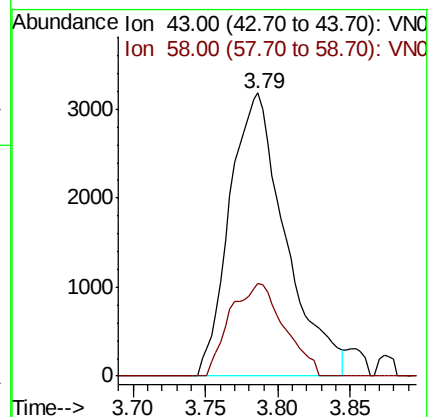
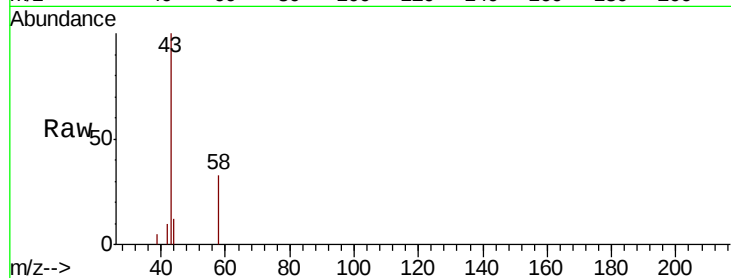
PB131102TB

Tot Ion: 43 Resp: 8485

Ion Ratio Lower Upper

43 100

58 32.9 27.8 41.6



#18

Methyl Acetate

Concen: 0.373 ug/l

RT: 4.28 min Scan# 779

Delta R.T. -0.00 min

Lab File: VN063065.D

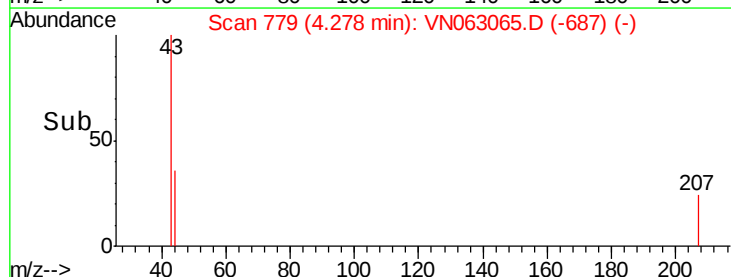
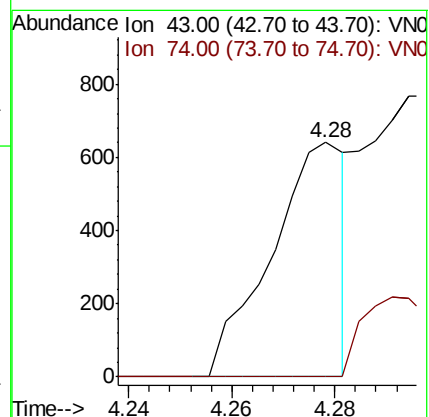
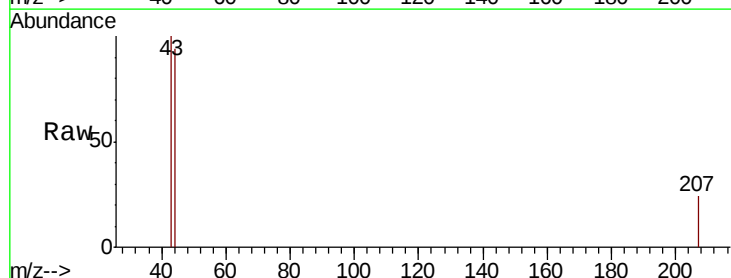
Acq: 21 Aug 2020 4:05

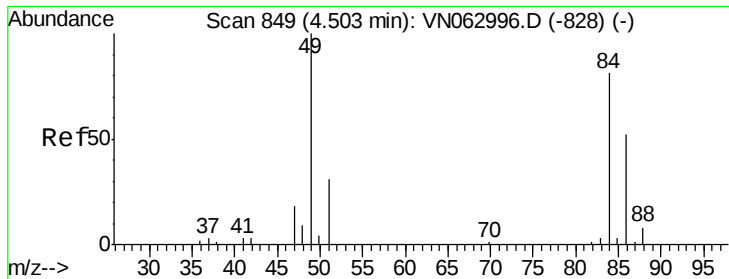
Tgt Ion: 43 Resp: 639

Ion Ratio Lower Upper

43 100

74 29.0 18.6 28.0#

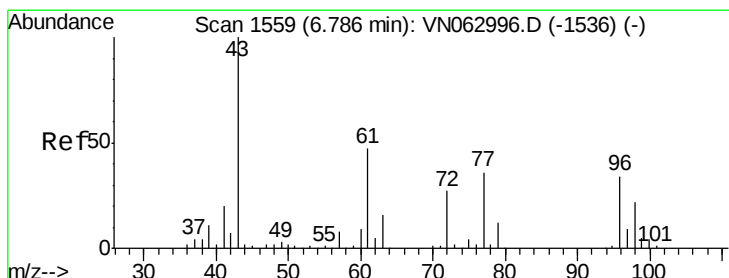
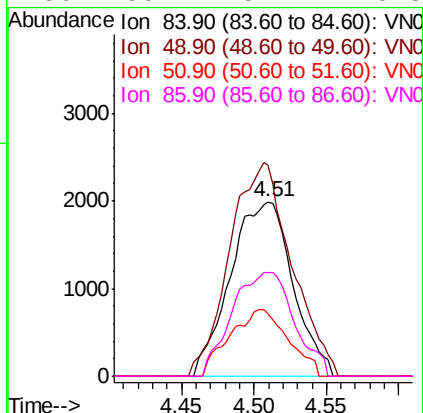
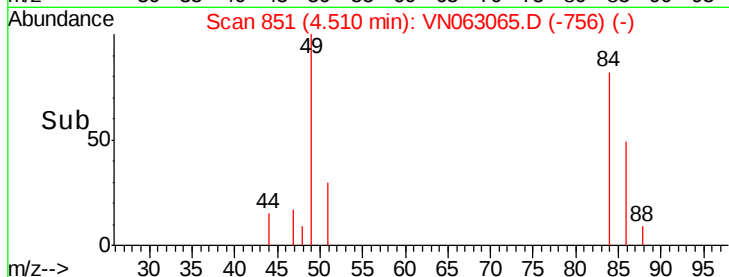
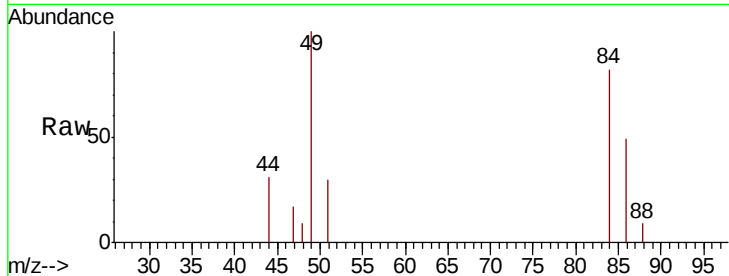




#20
Methvlene Chloride
Concen: 2.659 ug/l
RT: 4.51 min Scan# 851
Delta R.T. 0.01 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

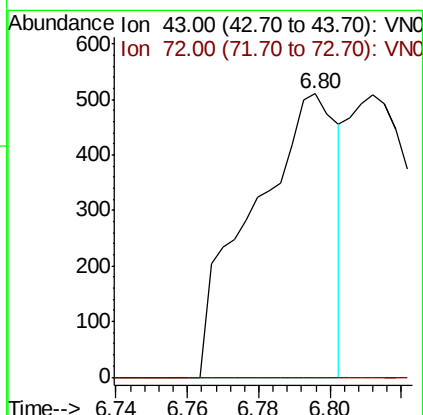
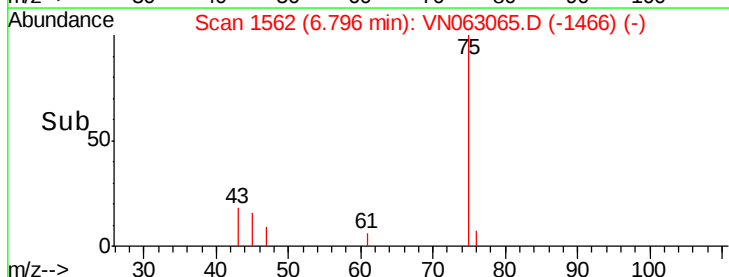
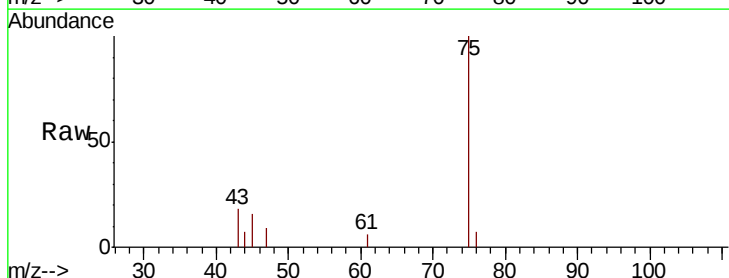
Instrument :
MSVOA_N
ClientSampleId :
PB131102TB

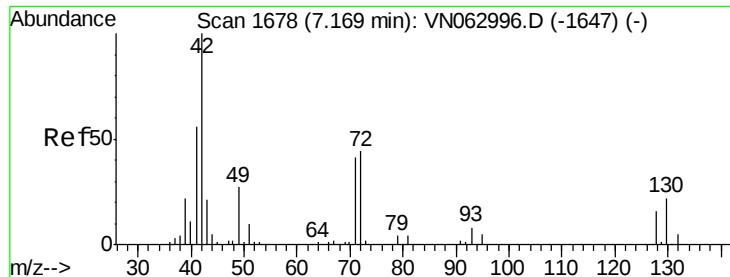
Tot Ion:	84	Resp:	5957
Ion	Ratio	Lower	Upper
84	100		
49	121.4	98.7	148.1
51	36.2	30.8	46.2
86	59.7	51.2	76.8



#25
2-Butanone
Concen: 0.915 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

Tgt Ion:	43	Resp:	836
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.8	32.6#





#29

Tetrahydrofuran

Concen: 0.271 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

PB131102TB

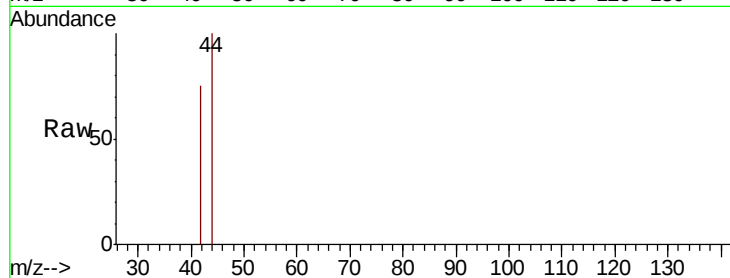
Tot Ion: 42 Resp: 160

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

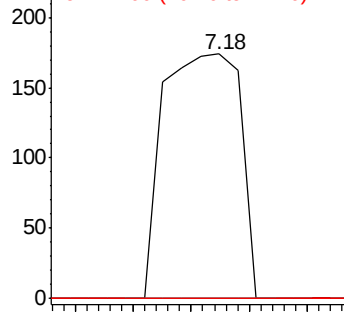
71 0.0 32.3 48.5#



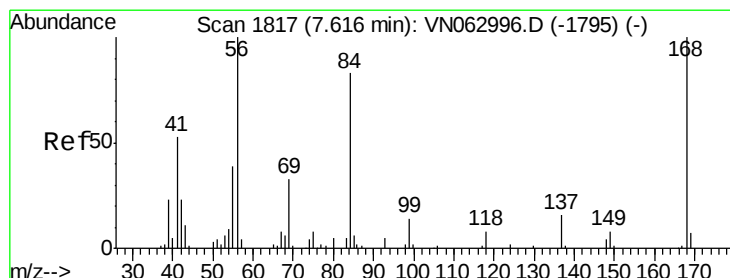
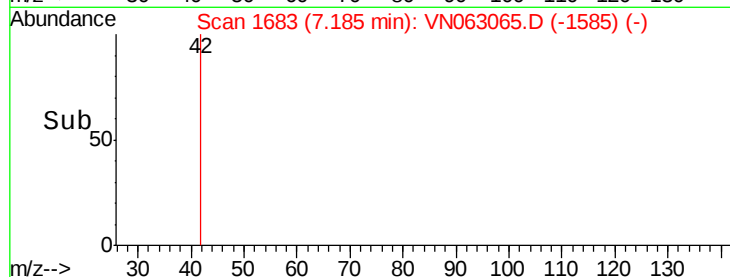
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time--> 7.16 7.17 7.18 7.19 7.20



#31

Cyclohexane

Concen: 1.032 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

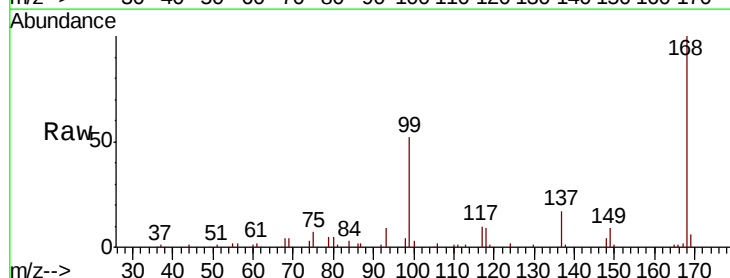
Tgt Ion: 56 Resp: 2618

Ion Ratio Lower Upper

56 100

69 180.3 26.6 40.0#

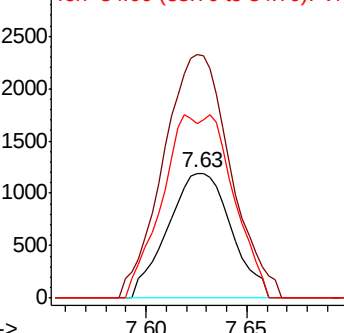
84 139.2 66.4 99.6#



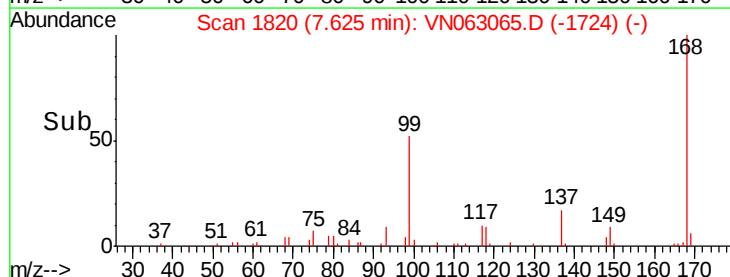
Abundance Ion 56.00 (55.70 to 56.70): VN0

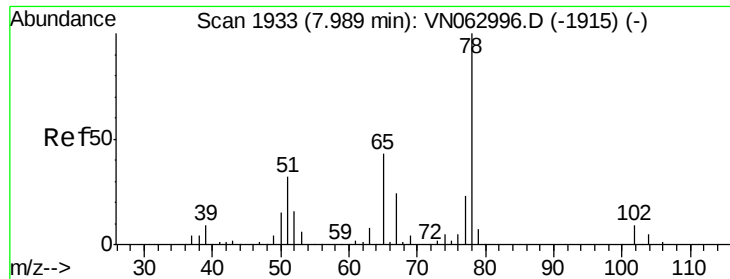
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time--> 7.60 7.65





#33

1,2-Dichloroethane-d4

Concen: 57.984 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

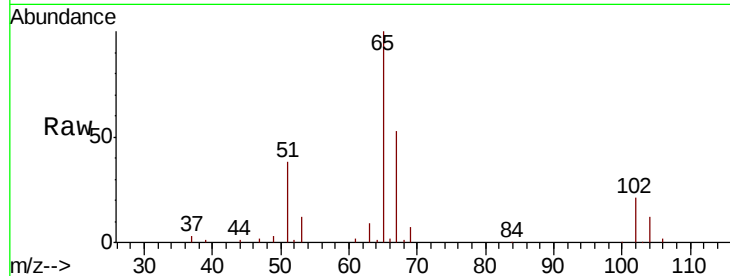
PB131102TB

Tot Ion: 65 Resp: 99842

Ion Ratio Lower Upper

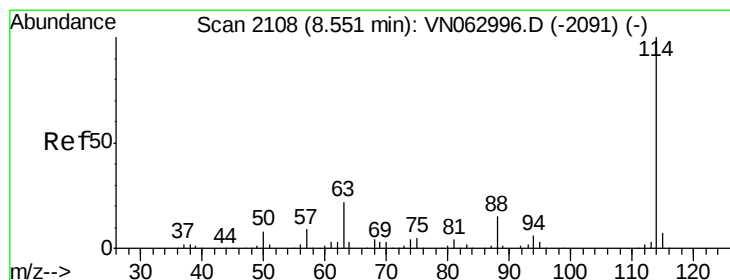
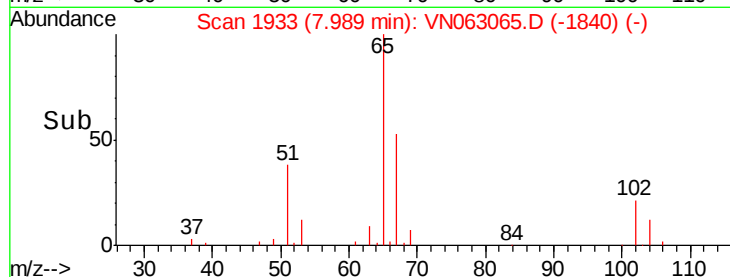
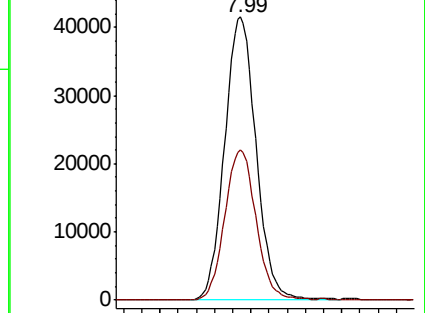
65 100

67 52.6 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN062996.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN062996.D (-1915) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

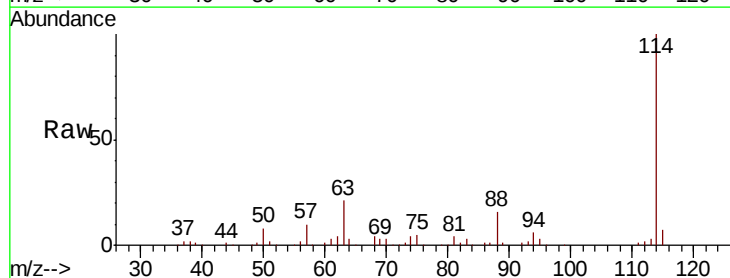
Tgt Ion: 114 Resp: 245688

Ion Ratio Lower Upper

114 100

63 20.5 0.0 43.2

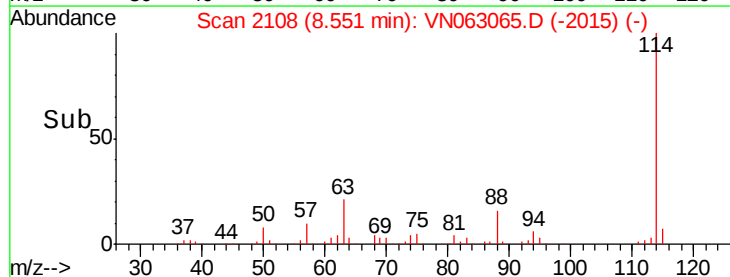
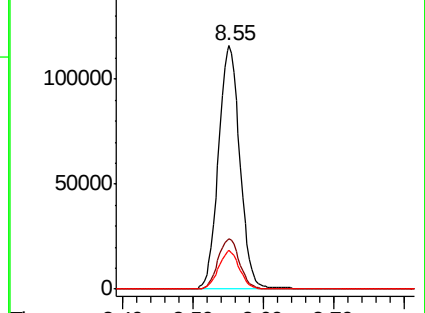
88 15.7 0.0 30.6

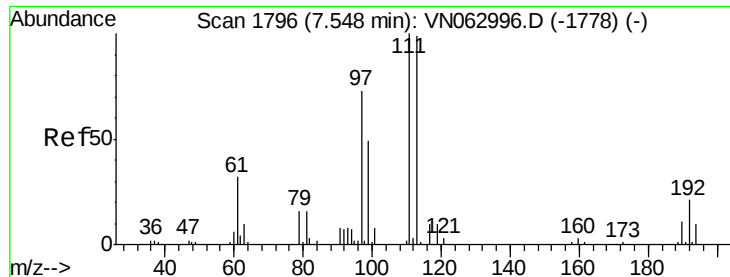


Abundance Ion 113.90 (113.60 to 114.60): VN062996.D (-2091) (-)

Ion 63.00 (62.70 to 63.70): VN062996.D (-2091) (-)

Ion 87.90 (87.60 to 88.60): VN062996.D (-2091) (-)

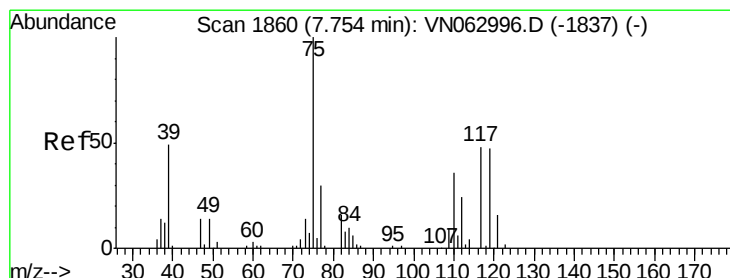
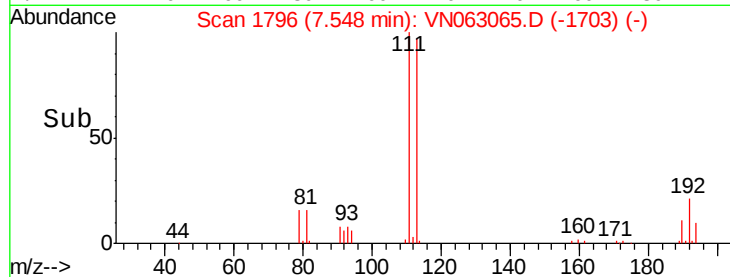
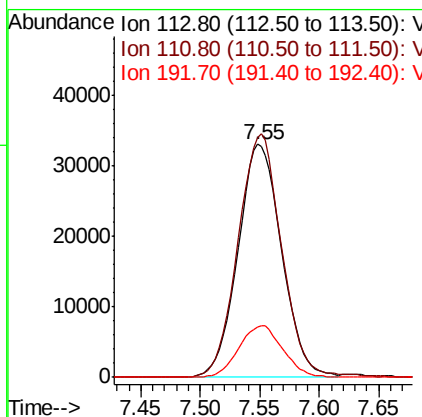
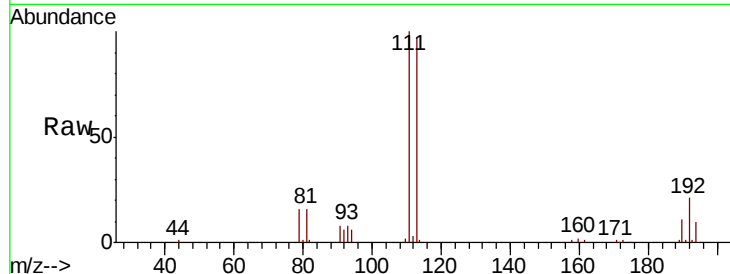




#35
 Dibromofluoromethane
 Concen: 52.658 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

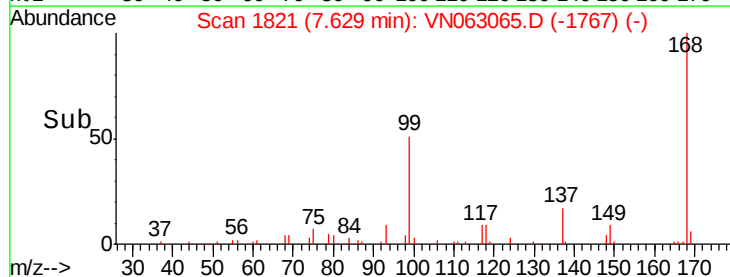
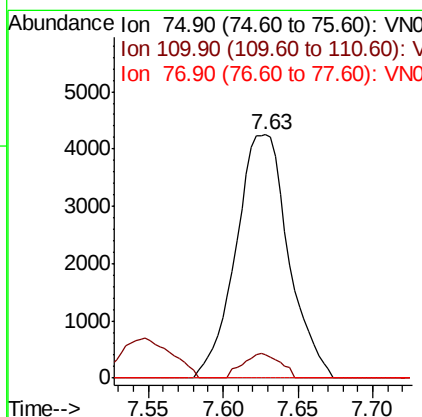
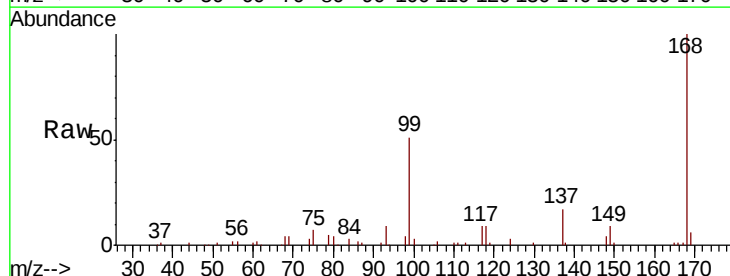
Instrument :
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 PB131102TB

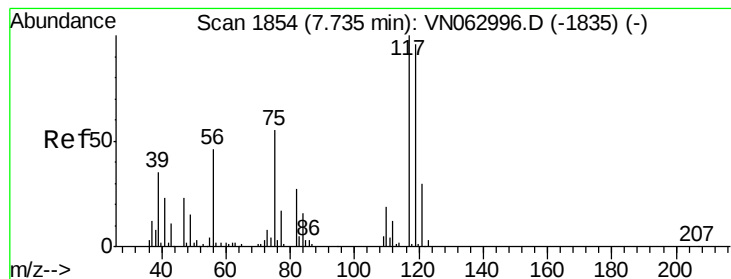
Tot Ion:113 Resp: 84300
 Ion Ratio Lower Upper
 113 100
 111 104.3 81.7 122.5
 192 22.3 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.797 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.13 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

Tgt Ion: 75 Resp: 10387
 Ion Ratio Lower Upper
 75 100
 110 7.1 17.5 52.6#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.189 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

PB131102TB

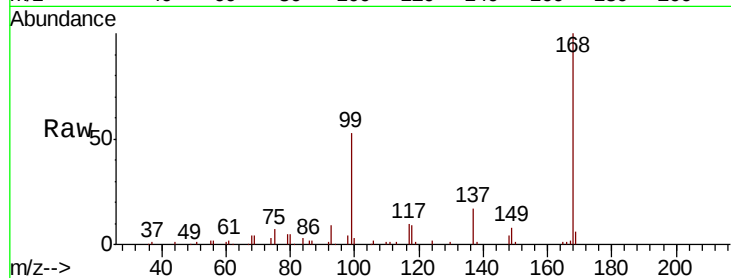
Tot Ion:117 Resp: 13528

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.4#

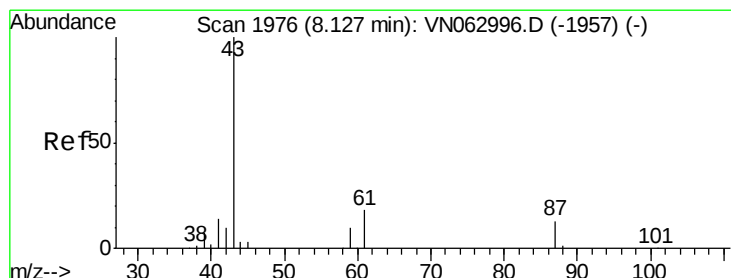
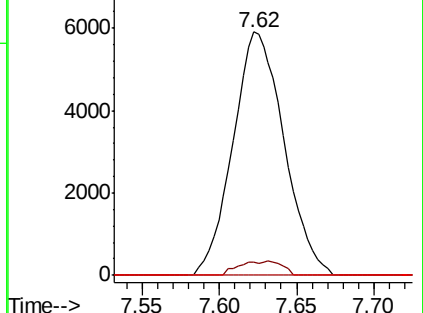
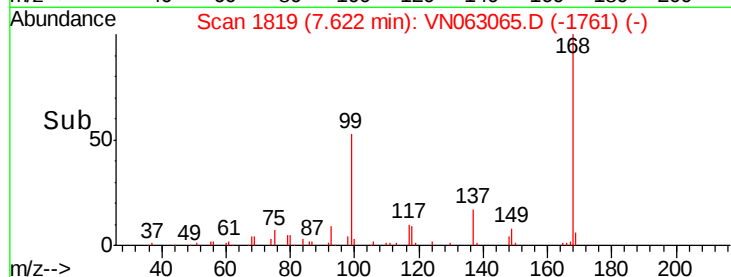
121 0.0 24.2 36.2#



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



#43

Isopropyl Acetate

Concen: 11.819 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

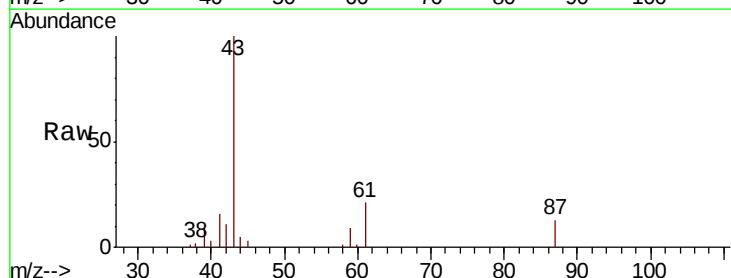
Tgt Ion: 43 Resp: 39724

Ion Ratio Lower Upper

43 100

61 20.0 22.6 33.8#

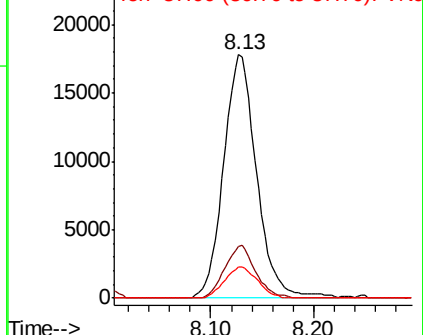
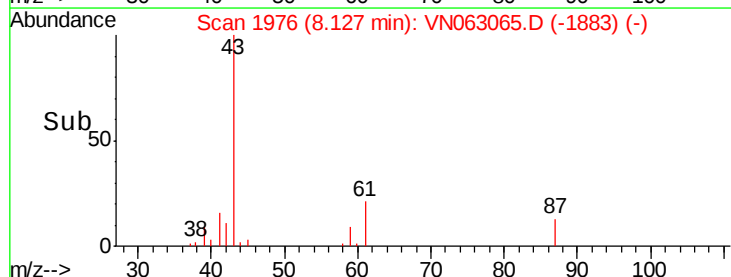
87 12.6 10.5 15.7

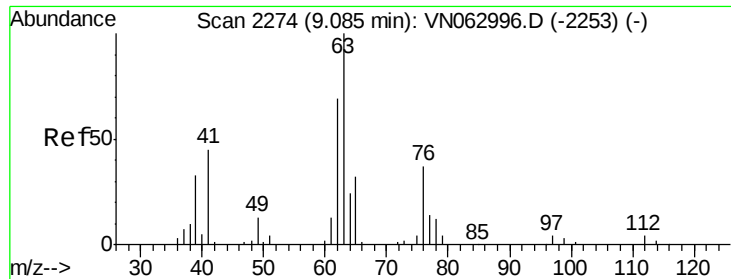


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

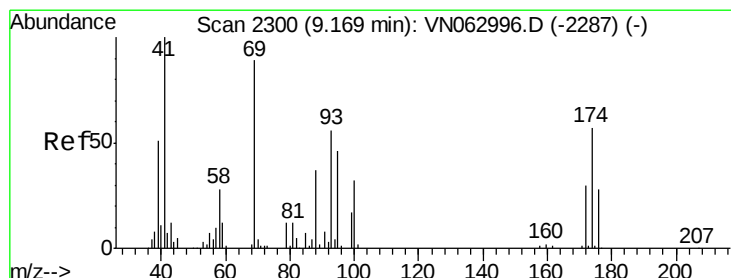
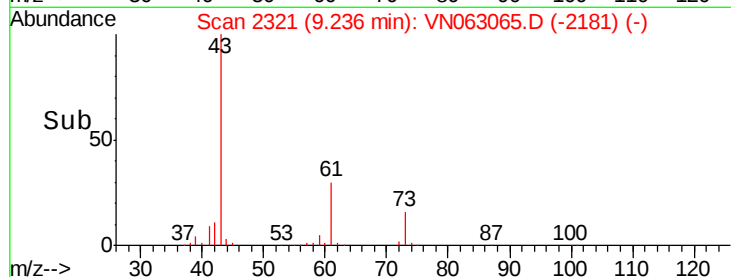
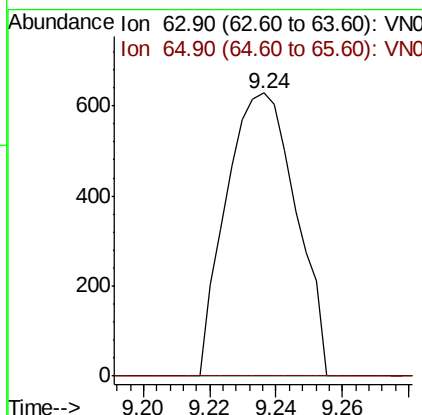
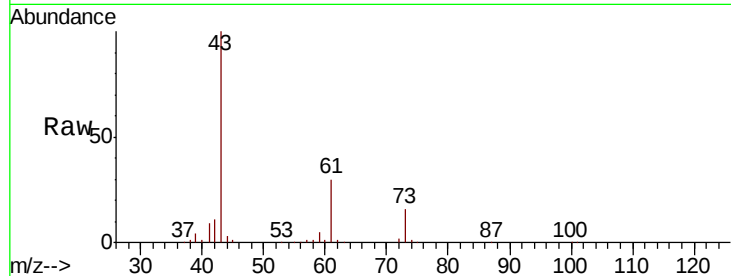




#45
 1,2-Dichloropropane
 Concen: 0.463 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

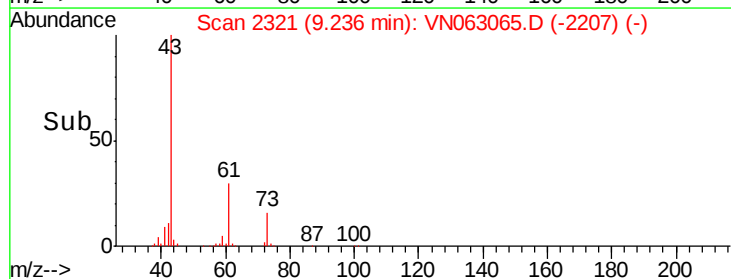
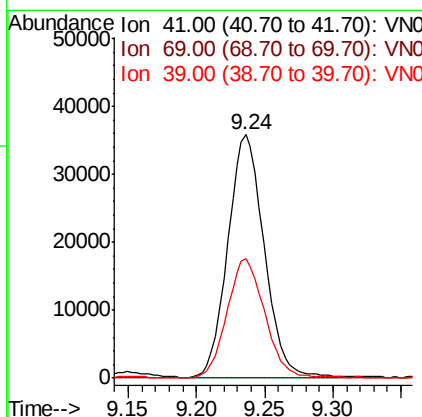
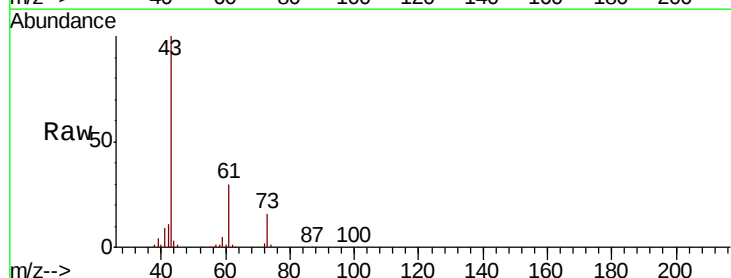
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131102TB

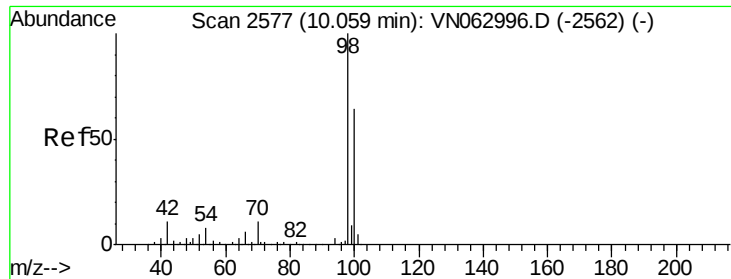
Tot Ion: 63 Resp: 919
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.6 38.4#



#48
 Methyl methacrylate
 Concen: 41.948 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.07 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

Tgt Ion: 41 Resp: 66709
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.2 111.4#
 39 50.4 42.5 63.7





#50

Toluene-d8

Concen: 54.333 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

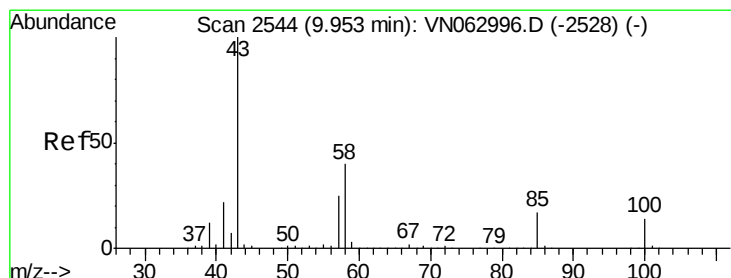
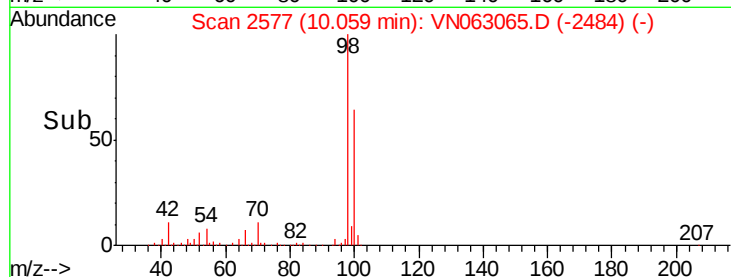
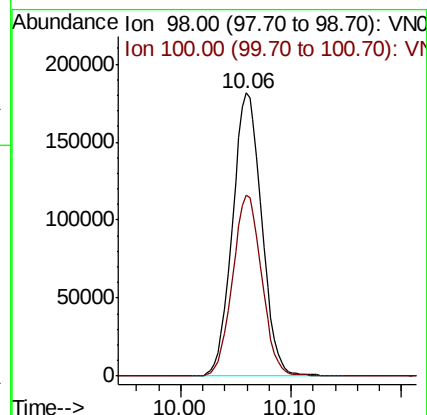
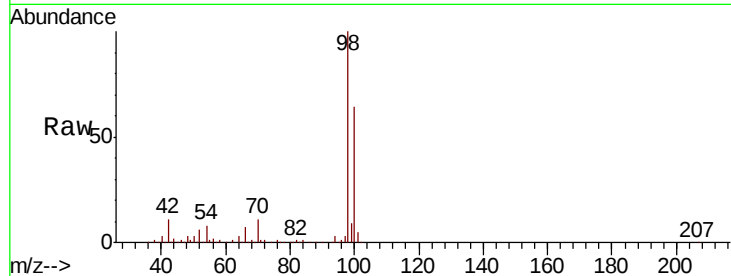
PB131102TB

Tot Ion: 98 Resp: 334102

Ion Ratio Lower Upper

98 100

100 63.8 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.852 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN063065.D

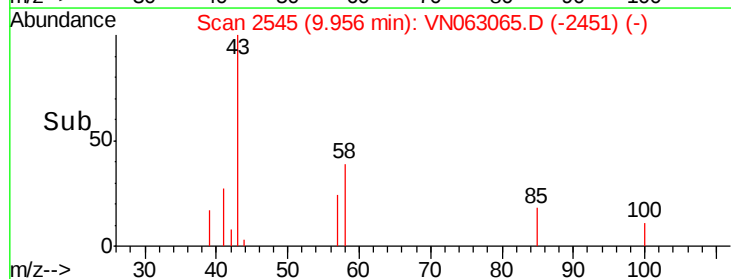
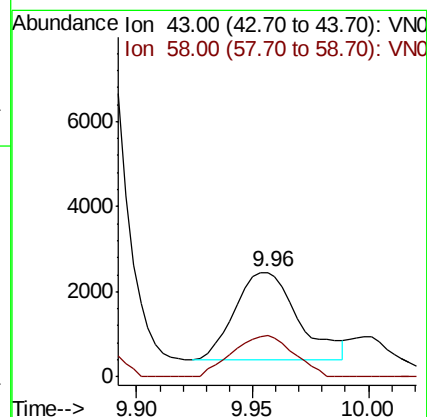
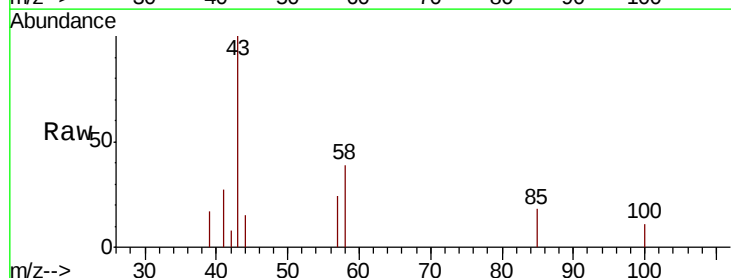
Acq: 21 Aug 2020 4:05

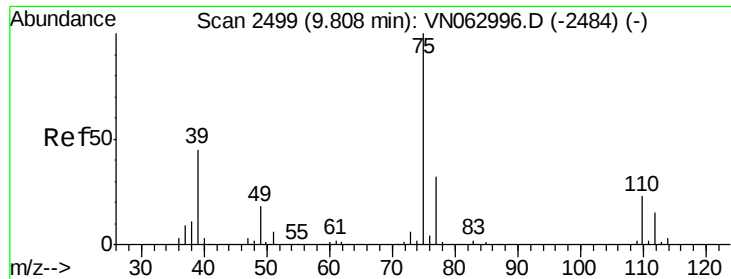
Tgt Ion: 43 Resp: 3934

Ion Ratio Lower Upper

43 100

58 45.2 32.2 48.2

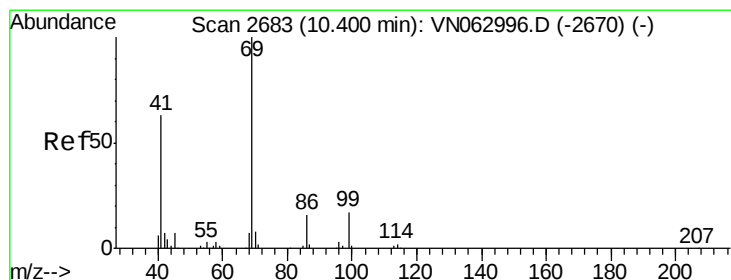
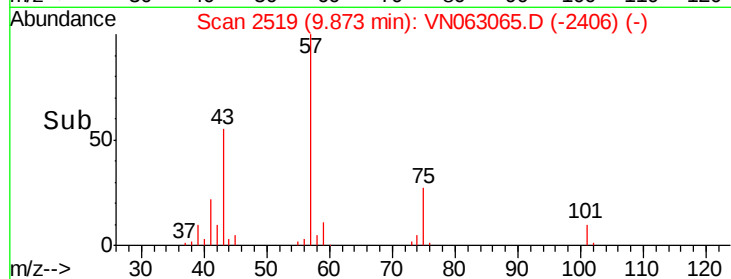
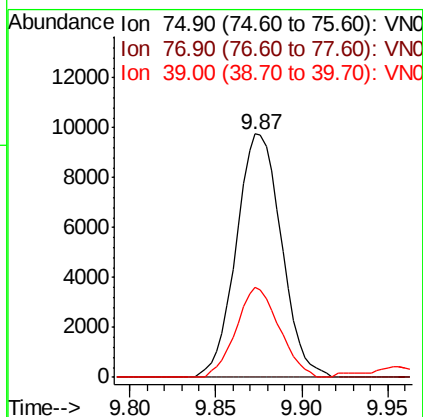
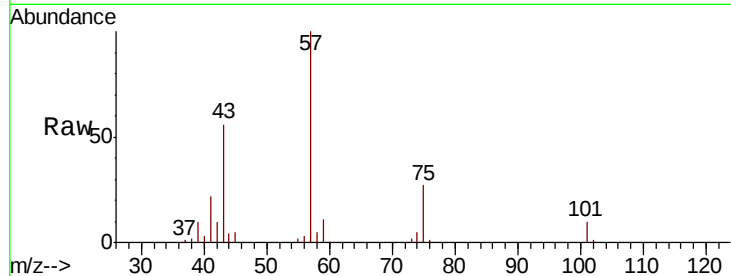




#54
 cis-1,3-Dichloropropene
 Concen: 6.236 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

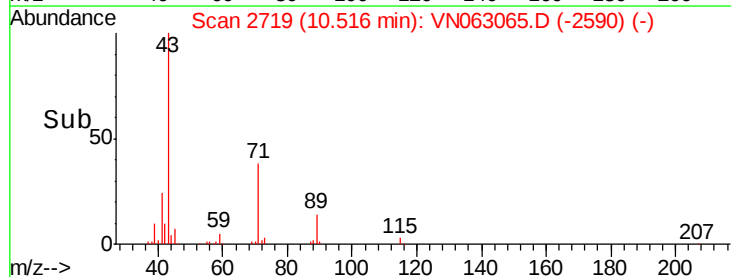
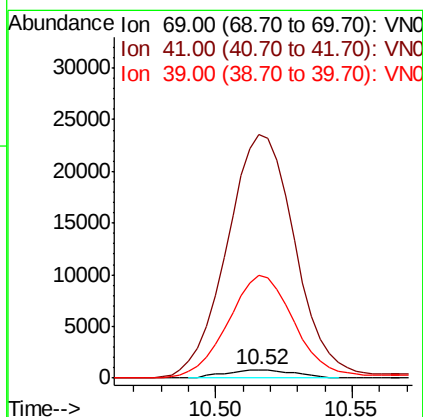
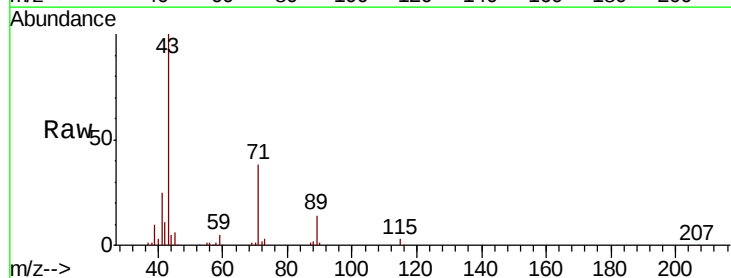
Instrument :
 MSVOA_N
 ClientSampleId :
 PB131102TB

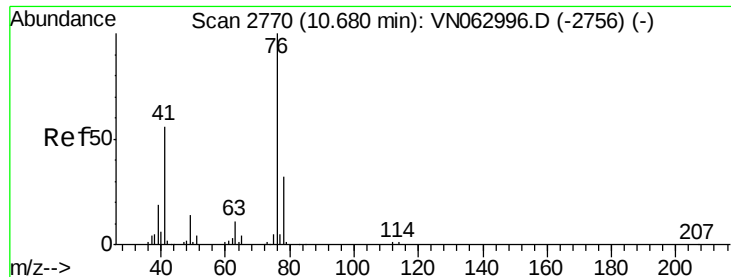
Tot Ion: 75 Resp: 17766
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 36.8 35.7 53.5



#56
 Ethyl methacrylate
 Concen: 2.238 ug/l
 RT: 10.52 min Scan# 2719
 Delta R.T. 0.12 min
 Lab File: VN063065.D
 Acq: 21 Aug 2020 4:05

Tgt Ion: 69 Resp: 1409
 Ion Ratio Lower Upper
 69 100
 41 2915.1 50.2 75.2#
 39 1201.6 24.2 36.4#





#57

1,3-Dichloropropane

Concen: 0.996 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampled :

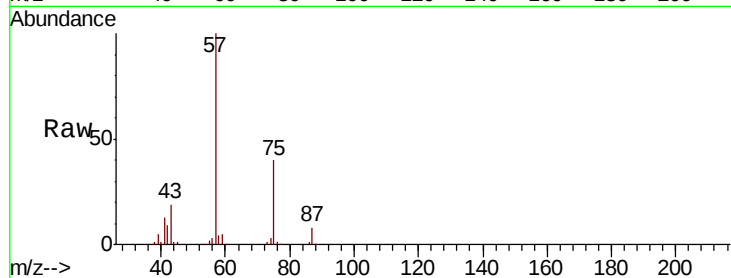
PB131102TB

Tot Ion: 76 Resp: 2930

Ion Ratio Lower Upper

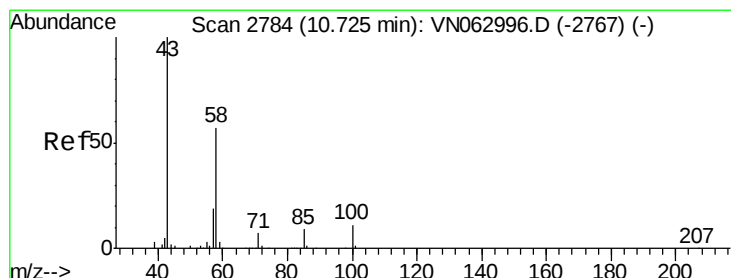
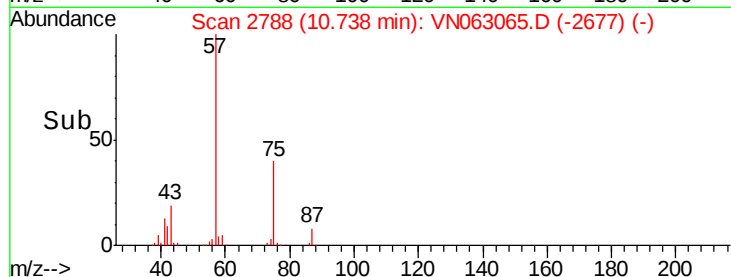
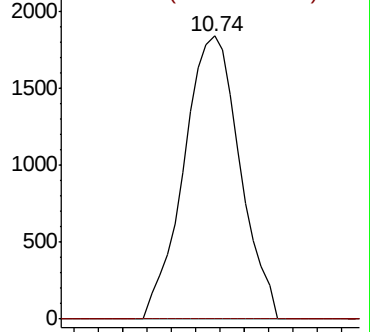
76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 29.659 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN063065.D

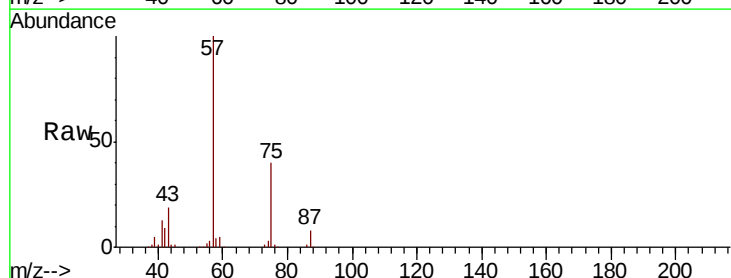
Acq: 21 Aug 2020 4:05

Tgt Ion: 43 Resp: 43950

Ion Ratio Lower Upper

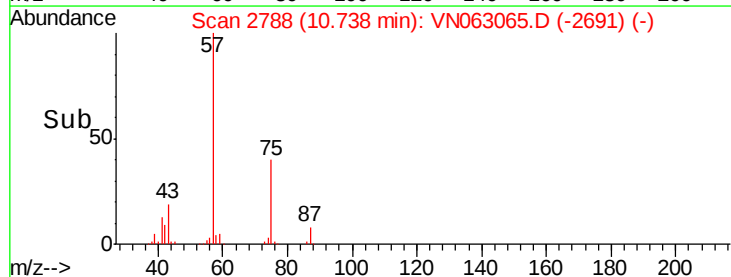
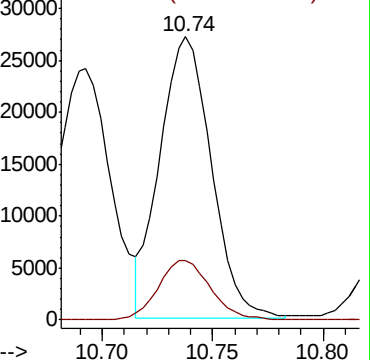
43 100

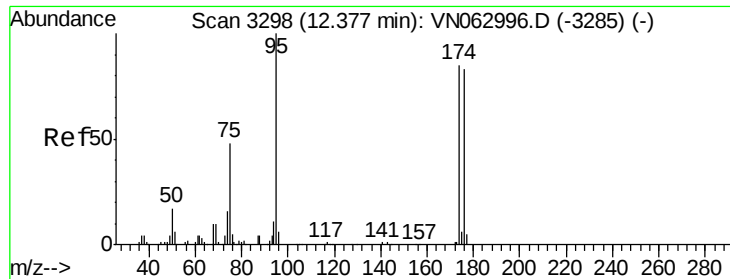
58 21.4 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

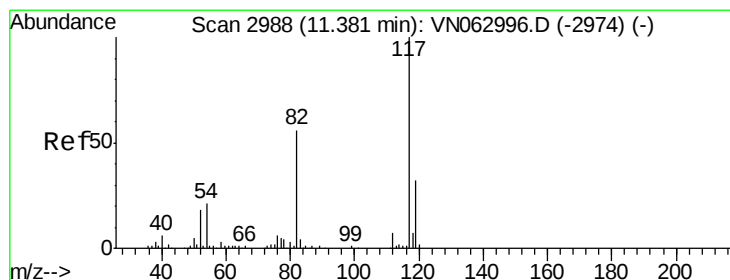
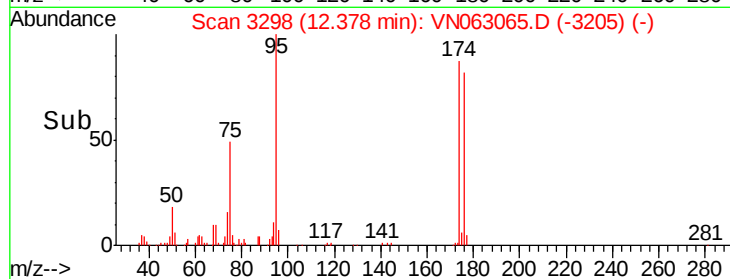
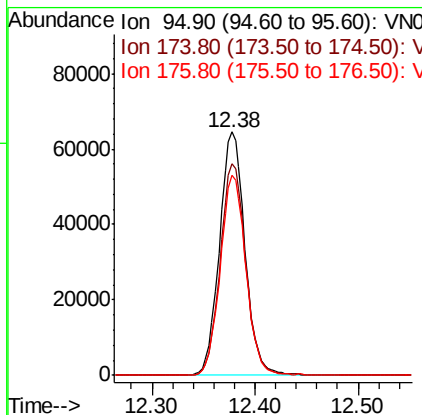
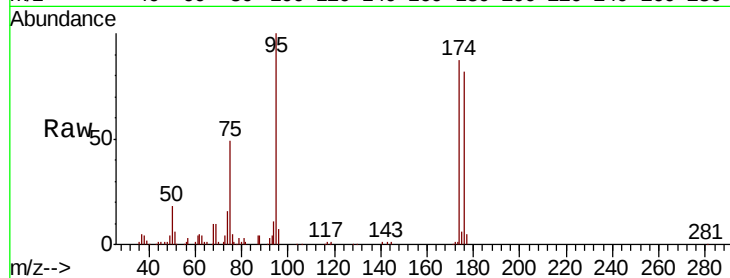




#62
4-Bromofluorobenzene
Concen: 51.171 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

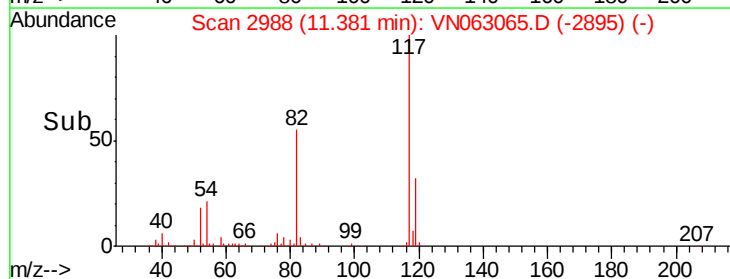
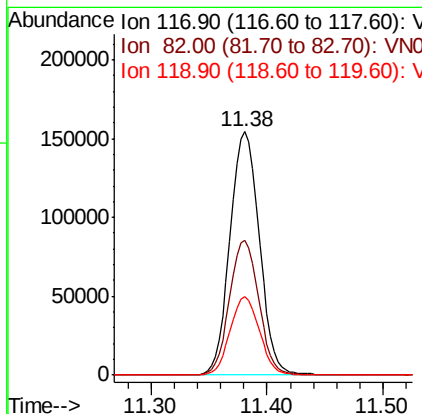
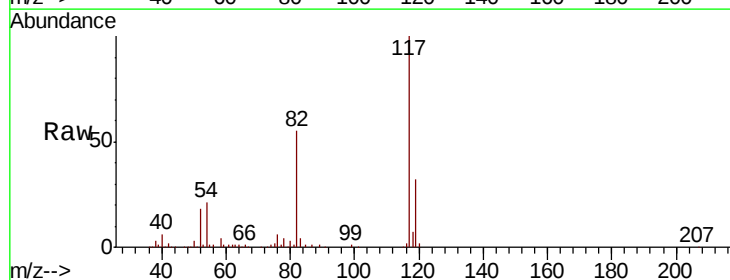
Instrument :
MSVOA_N
ClientSampleId :
PB131102TB

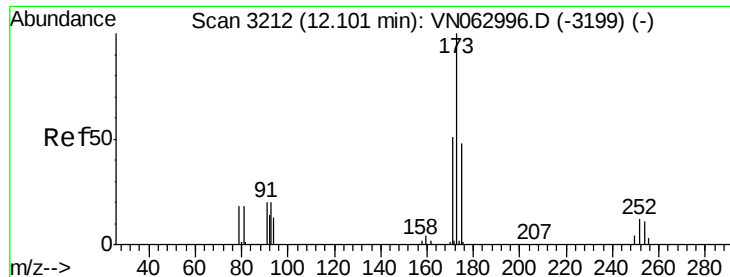
Tot Ion: 95 Resp: 111038
Ion Ratio Lower Upper
95 100
174 87.4 0.0 170.8
176 82.4 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

Tgt Ion: 117 Resp: 271581
Ion Ratio Lower Upper
117 100
82 55.2 44.5 66.7
119 32.2 25.5 38.3





#71

Bromoform

Concen: 0.645 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

PB131102TB

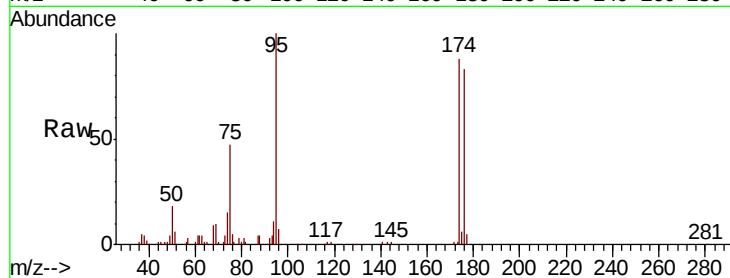
Tot Ion:173 Resp: 1090

Ion Ratio Lower Upper

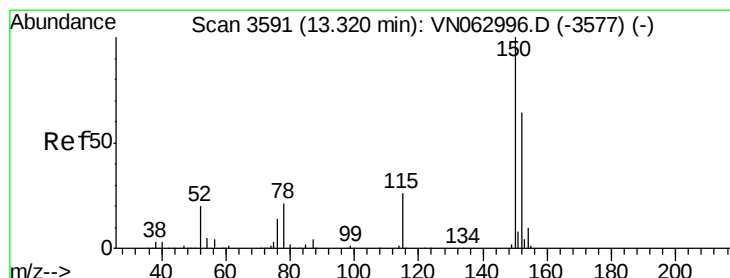
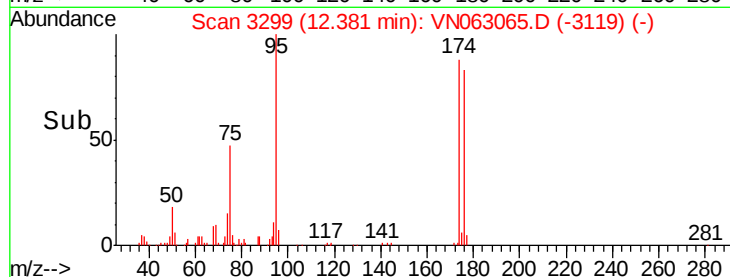
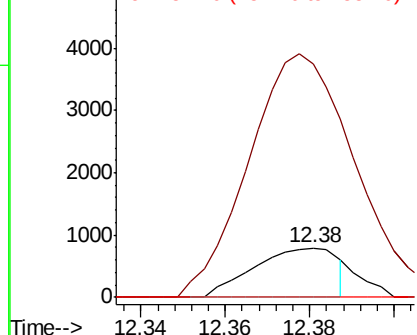
173 100

175 506.6 24.3 72.8#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

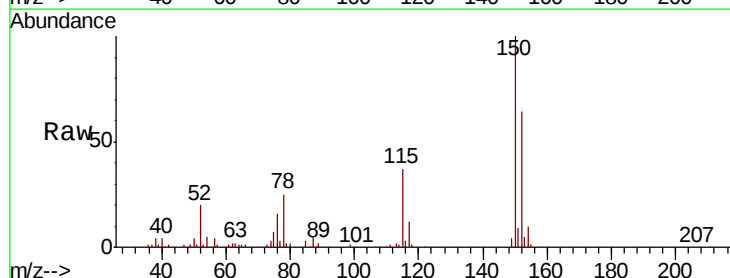
Tgt Ion:152 Resp: 95322

Ion Ratio Lower Upper

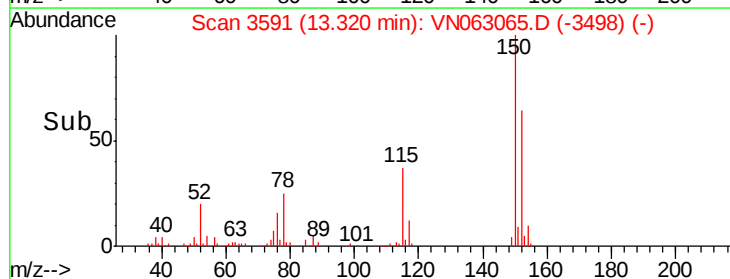
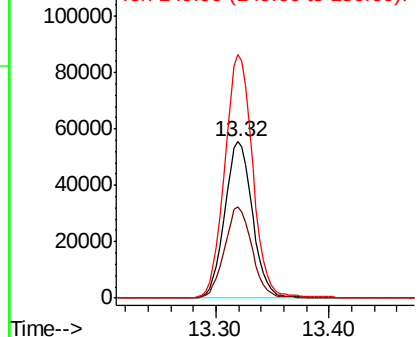
152 100

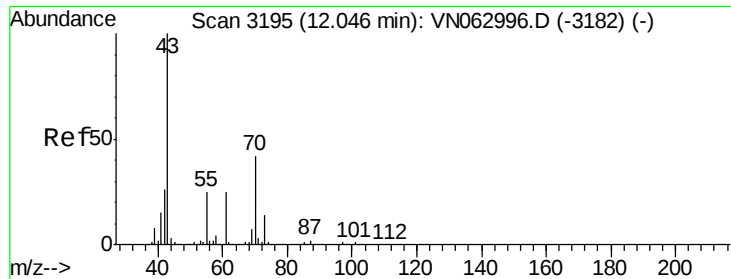
115 57.7 28.7 86.3

150 157.0 0.0 348.8



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

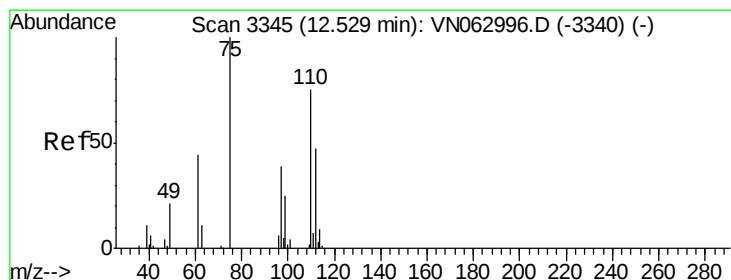
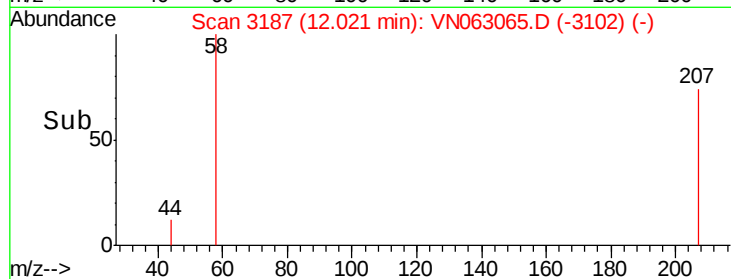
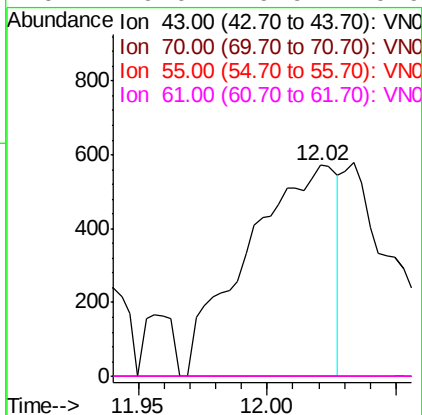
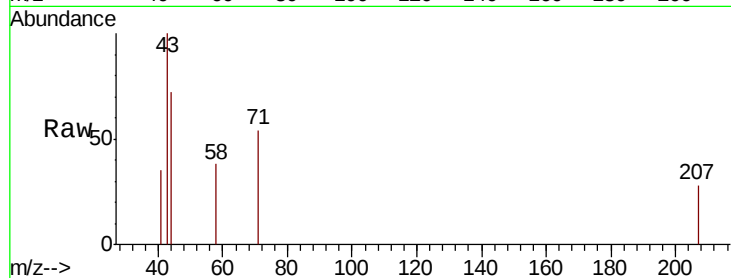




#74
N-amyl acetate
Concen: 0.586 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.03 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

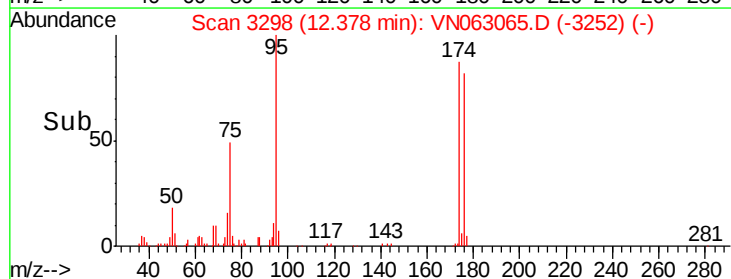
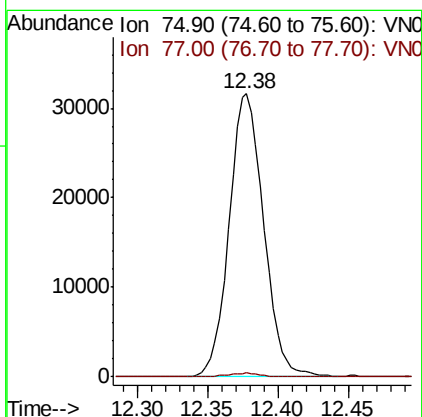
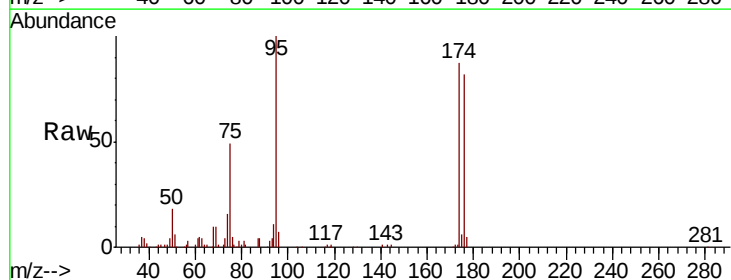
Instrument :
MSVOA_N
ClientSampled :
PB131102TB

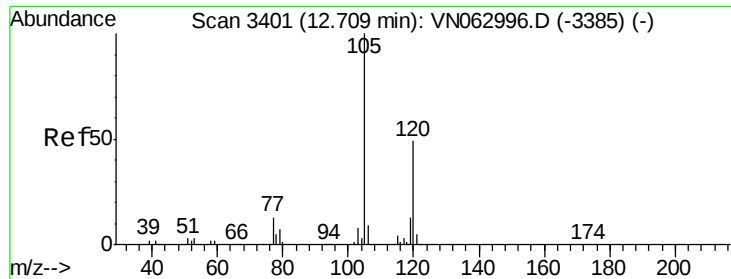
Tot Ion: 43 Resp: 1371
Ion Ratio Lower Upper
43 100
70 0.0 33.4 50.0#
55 0.0 20.2 30.2#
61 0.0 19.9 29.9#



#76
1,2,3-Trichloropropane
Concen: 29.226 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN063065.D
Acq: 21 Aug 2020 4:05

Tgt Ion: 75 Resp: 54152
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.664 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampled :

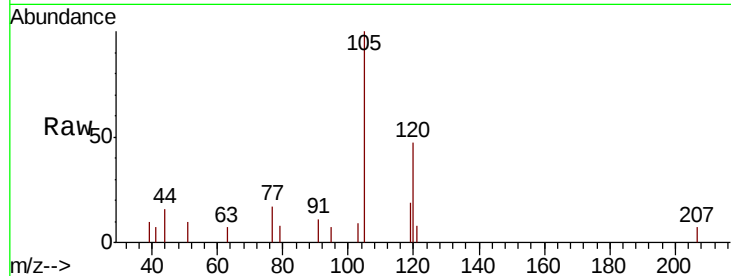
PB131102TB

Tot Ion:105 Resp: 3583

Ion Ratio Lower Upper

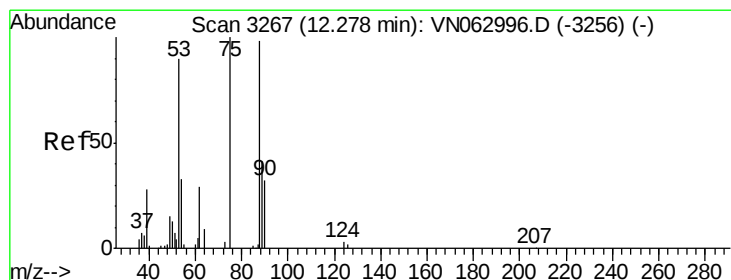
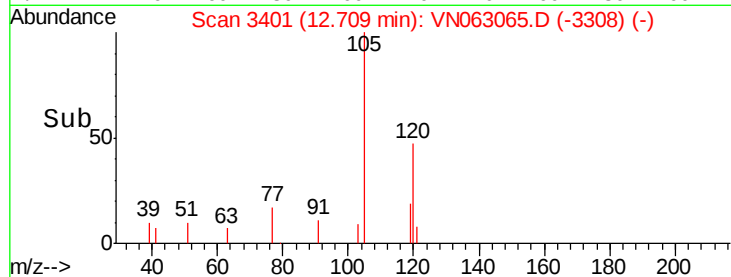
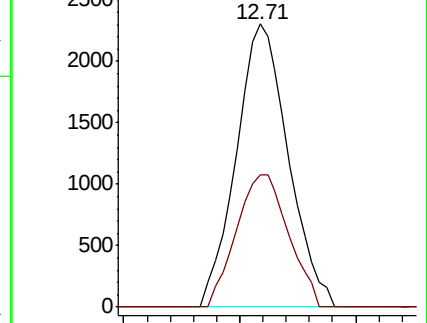
105 100

120 46.9 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 80.269 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

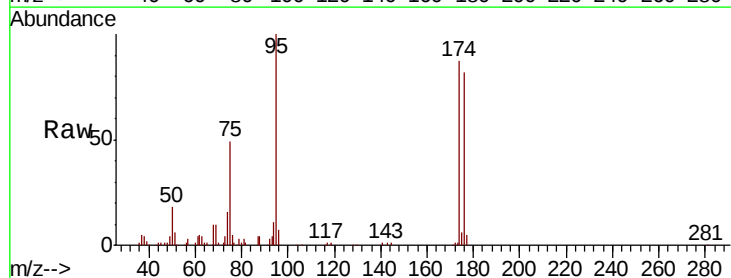
Tgt Ion: 75 Resp: 54152

Ion Ratio Lower Upper

75 100

53 0.0 69.2 103.8#

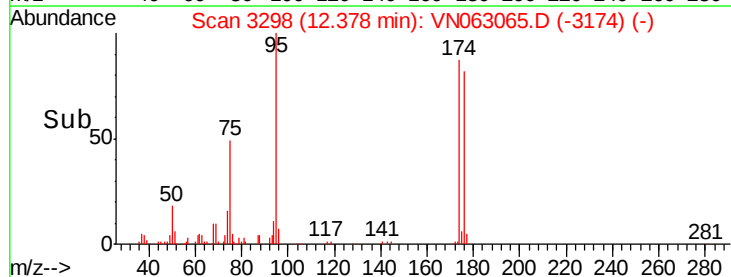
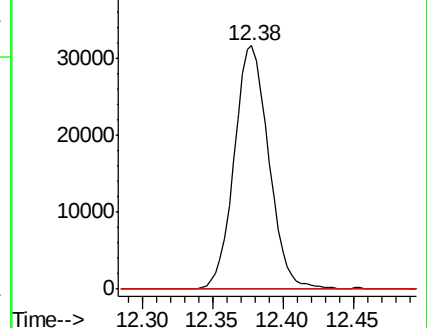
89 0.0 34.2 51.4#

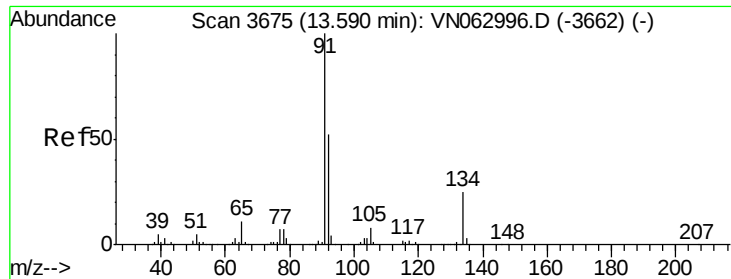


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#89

n-Butylbenzene

Concen: 2.782 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.27 min

Lab File: VN063065.D

Acq: 21 Aug 2020 4:05

Instrument :

MSVOA_N

ClientSampleId :

PB131102TB

Tot Ion: 91 Resp: 60

Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.6#

134 0.0 12.4 37.0#

