

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063651.D
 Acq On : 25 Sep 2020 1:26
 Operator : JC/MD
 Sample : PB131859TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131859TB

Quant Time: Sep 25 05:36:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	190521	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	355616	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	356622	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	144530	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	163954	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
35) Dibromofluoromethane	7.55	113	120160	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	10.06	98	456522	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
62) 4-Bromofluorobenzene	12.38	95	174124	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	

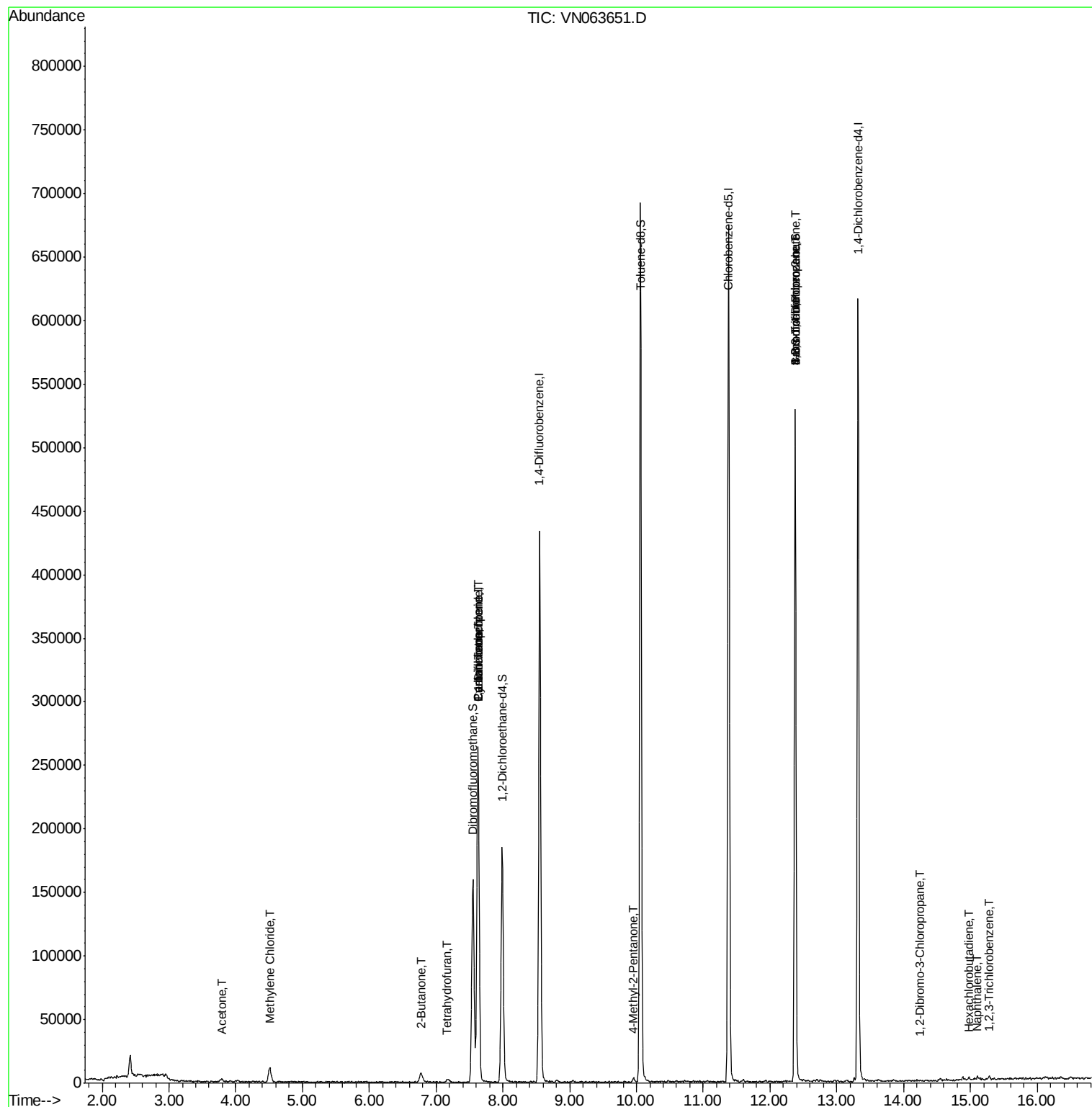
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	3746	3.594	ug/l	95
20) Methylene Chloride	4.51	84	7431	2.814	ug/l	90
25) 2-Butanone	6.78	43	843	0.526	ug/l #	51
29) Tetrahydrofuran	7.16	42	431	0.394	ug/l #	35
31) Cyclohexane	7.63	56	5829	1.301	ug/l #	43
36) 1,1-Dichloropropene	7.63	75	17780	4.693	ug/l #	52
38) Carbon Tetrachloride	7.63	117	21426	5.540	ug/l #	18
51) 4-Methyl-2-Pentanone	9.96	43	3135	0.842	ug/l #	86
71) Bromoform	12.37	173	492	0.238	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	97338	27.210	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	97338	74.599	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.24	75	179	0.210	ug/l #	10
94) Hexachlorobutadiene	14.98	225	437	0.378	ug/l	67
95) Naphthalene	15.11	128	3094	0.335	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.29	180	789	0.292	ug/l	84

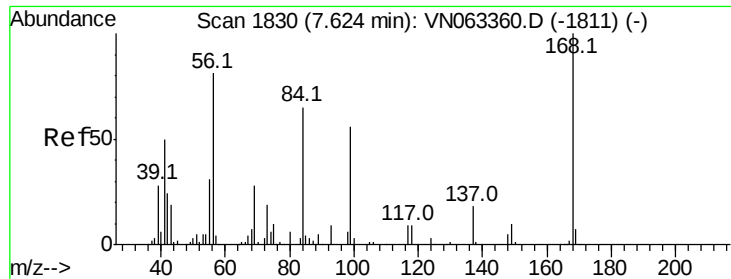
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

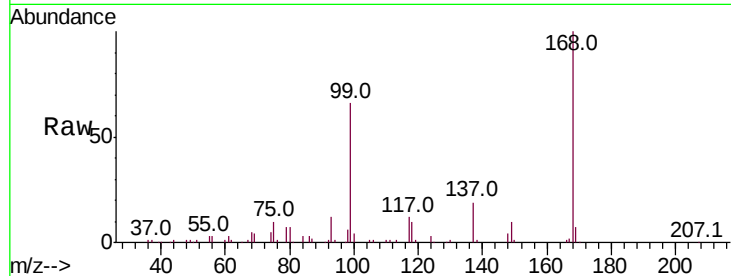
PB131859TB

Tot Ion:168 Resp: 190521

Ion Ratio Lower Upper

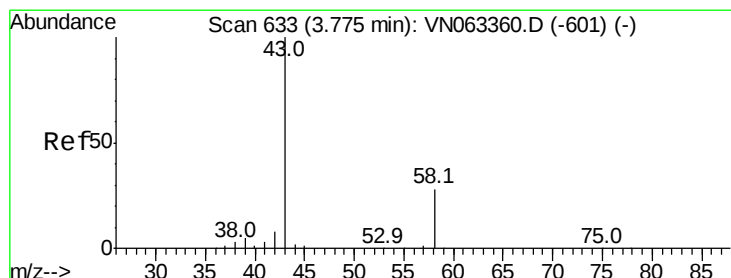
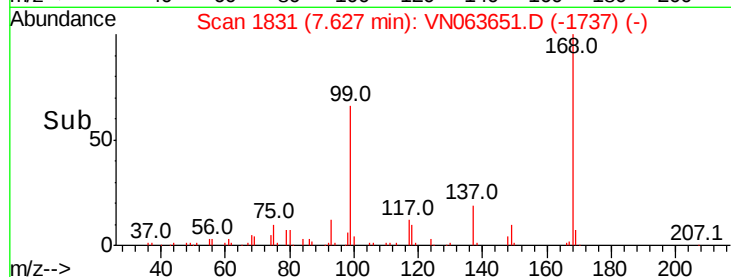
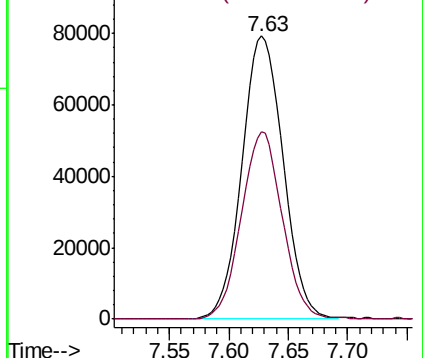
168 100

99 66.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 3.594 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063651.D

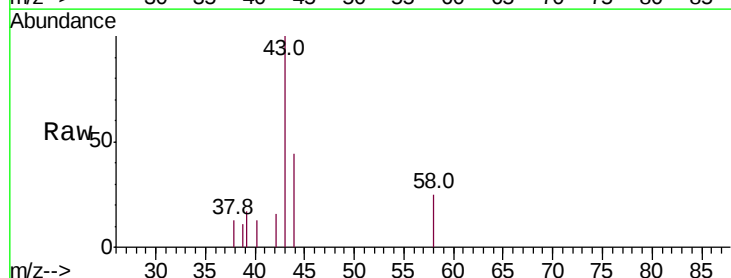
Acq: 25 Sep 2020 1:26

Tgt Ion: 43 Resp: 3746

Ion Ratio Lower Upper

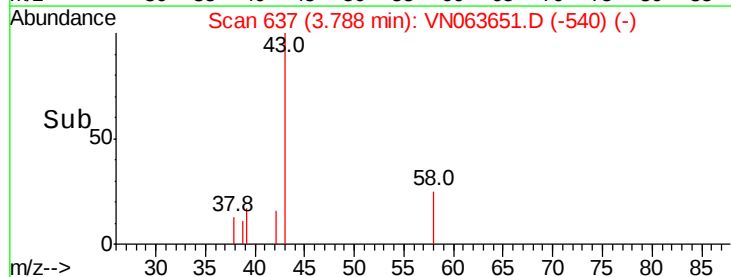
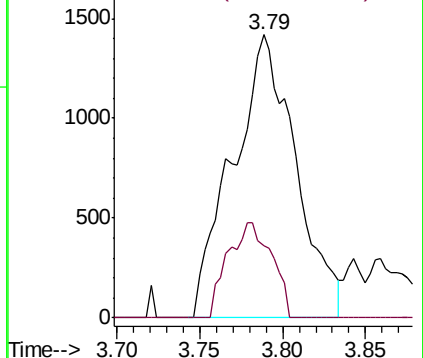
43 100

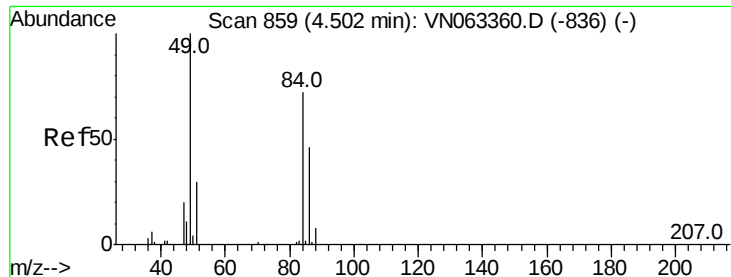
58 25.5 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#20

Methylene Chloride

Concen: 2.814 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleID :

PB131859TB

Tot Ion: 84 Resp: 7431

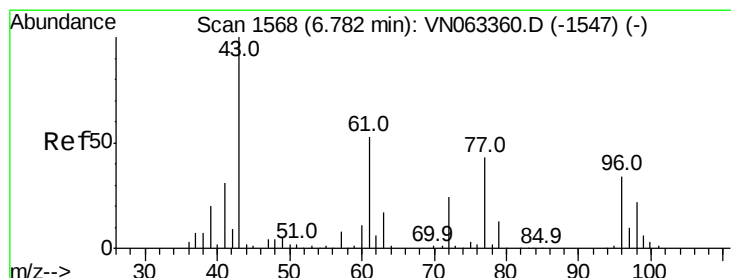
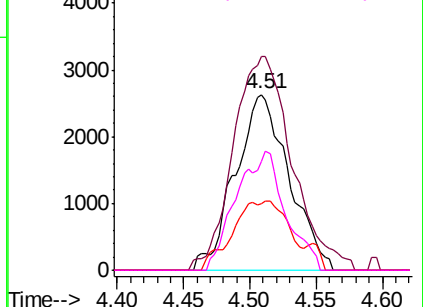
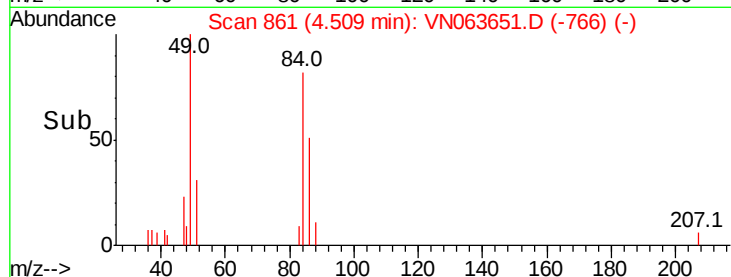
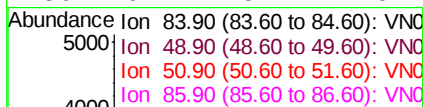
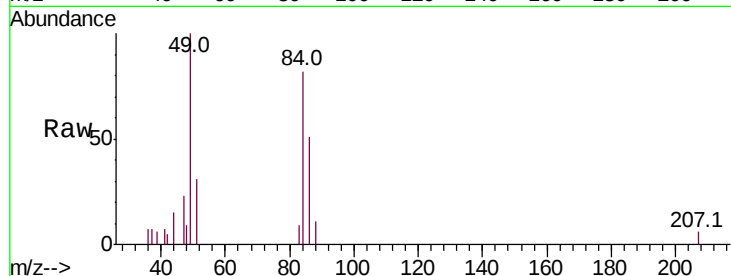
Ion Ratio Lower Upper

84 100

49 121.4 110.7 166.1

51 37.7 32.9 49.3

86 62.2 51.1 76.7



#25

2-Butanone

Concen: 0.526 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VN063651.D

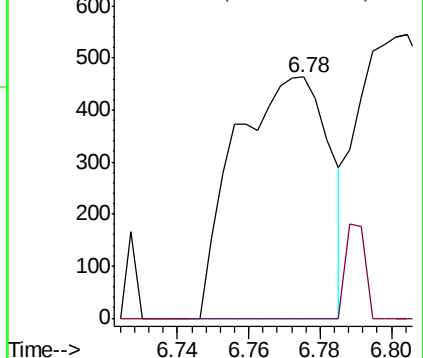
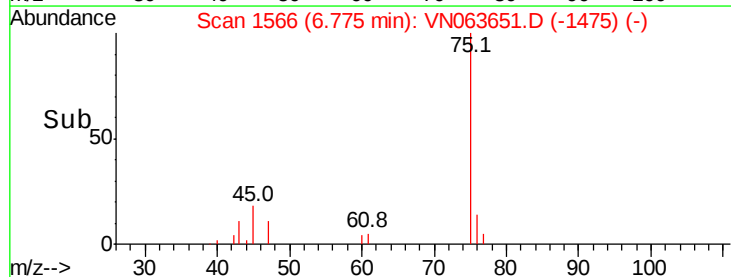
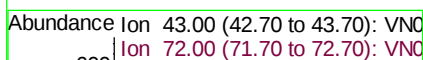
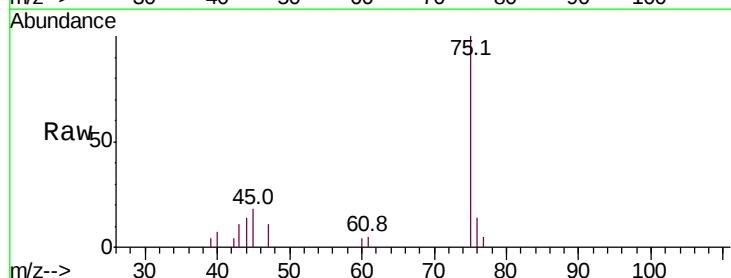
Acq: 25 Sep 2020 1:26

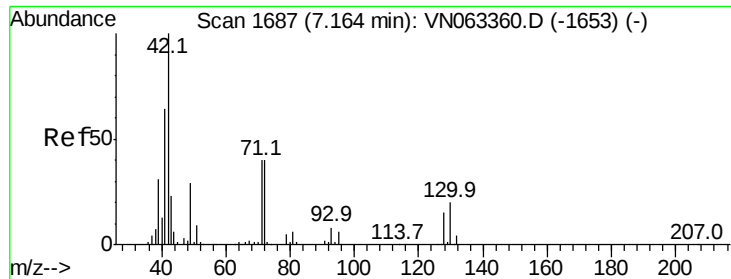
Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.394 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

PB131859TB

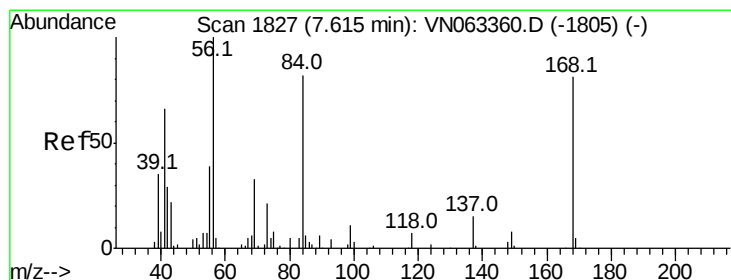
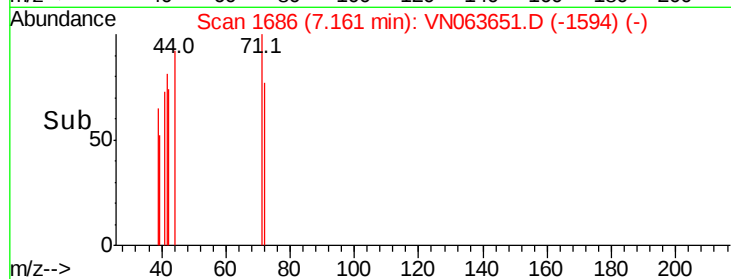
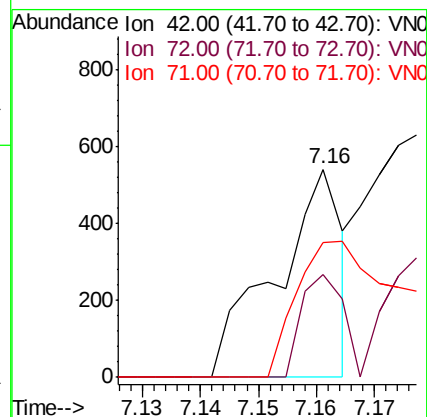
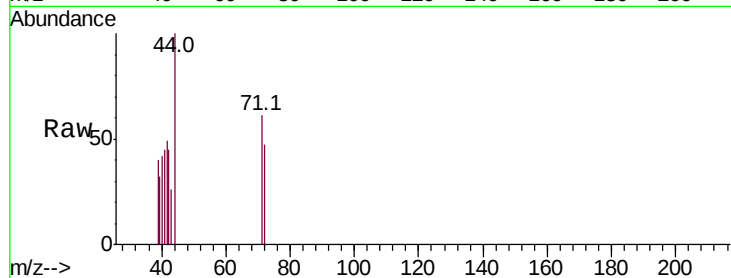
Tot Ion: 42 Resp: 431

Ion Ratio Lower Upper

42 100

72 31.1 32.1 48.1#

71 110.0 31.2 46.8#



#31

Cyclohexane

Concen: 1.301 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

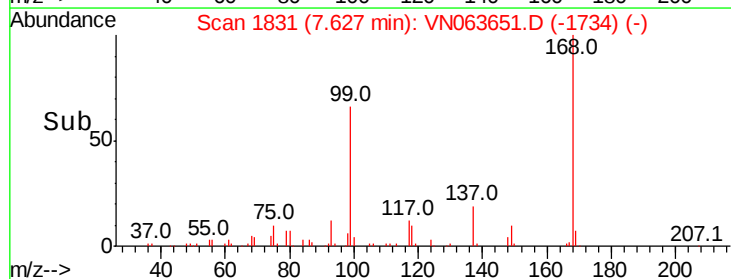
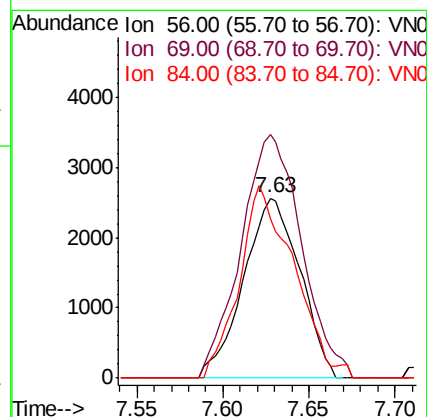
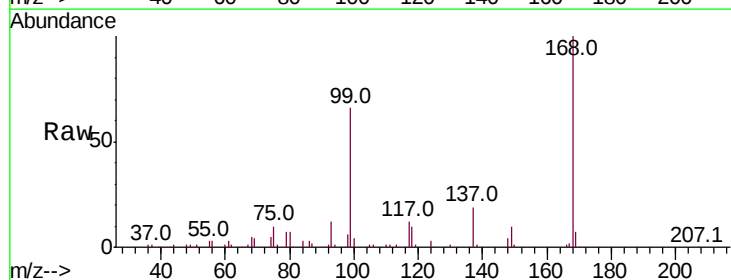
Tgt Ion: 56 Resp: 5829

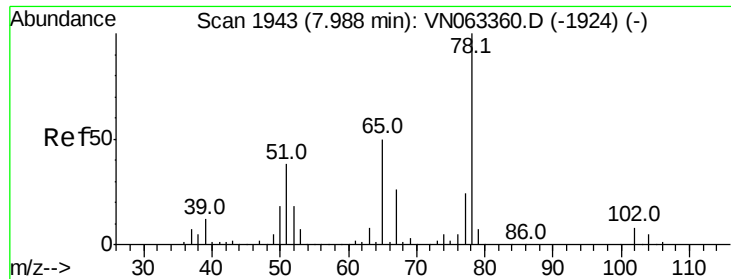
Ion Ratio Lower Upper

56 100

69 135.2 26.1 39.1#

84 88.5 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 50.554 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

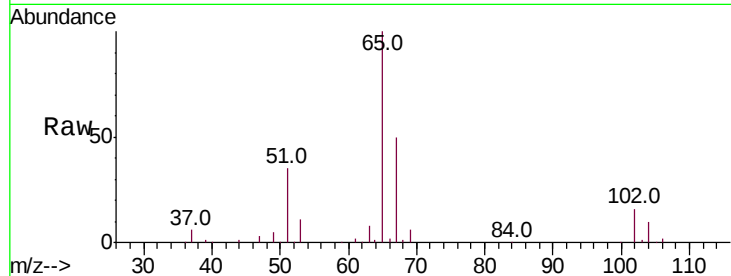
PB131859TB

Tot Ion: 65 Resp: 163954

Ion Ratio Lower Upper

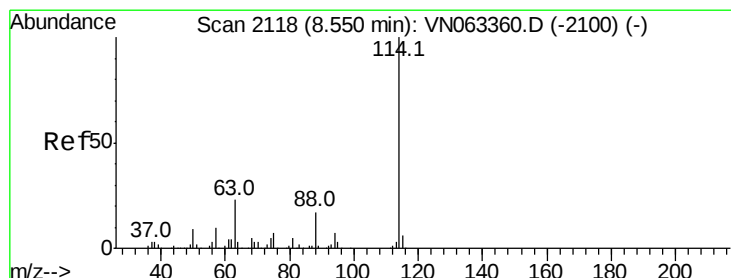
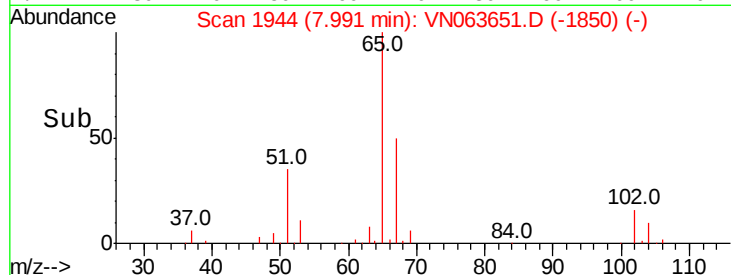
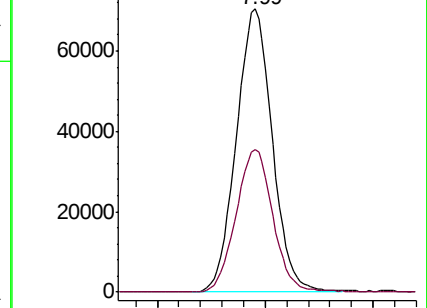
65 100

67 51.4 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN063360.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063360.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

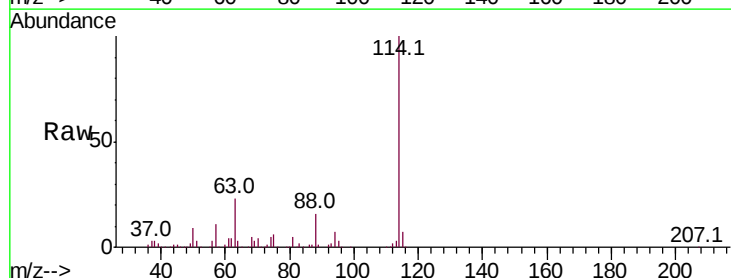
Tgt Ion: 114 Resp: 355616

Ion Ratio Lower Upper

114 100

63 22.9 0.0 46.4

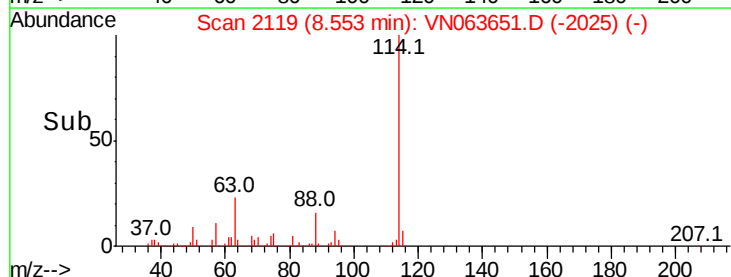
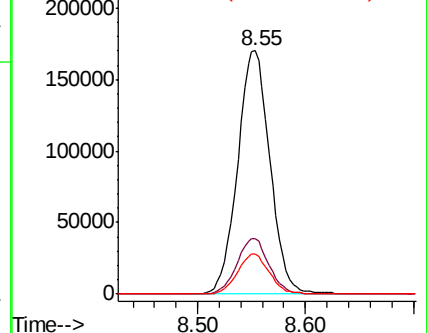
88 16.4 0.0 33.2

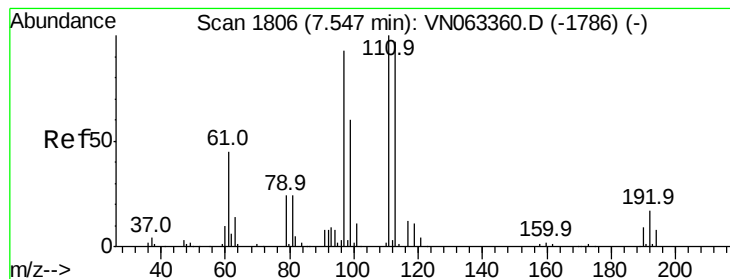


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063360.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063360.D (-2100) (-)





#35

Dibromofluoromethane

Concen: 48.809 ug/l

RT: 7.55 min Scan# 1808

Delta R.T. 0.01 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

PB131859TB

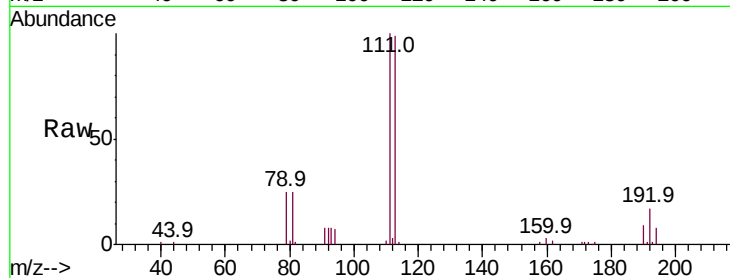
Tot Ion:113 Resp: 120160

Ion Ratio Lower Upper

113 100

111 101.5 82.9 124.3

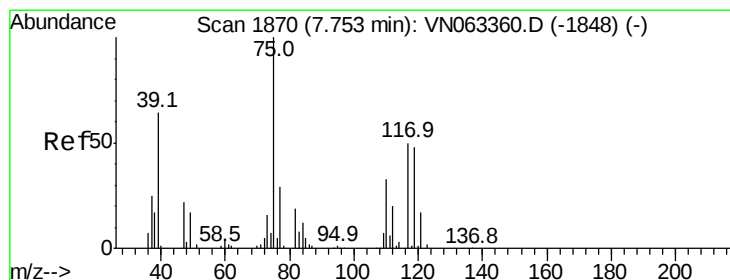
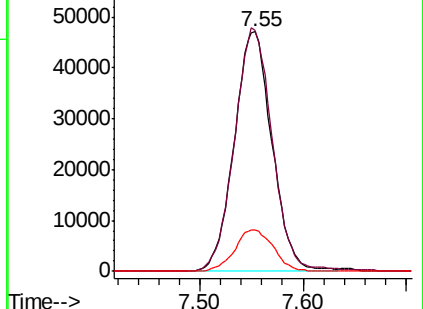
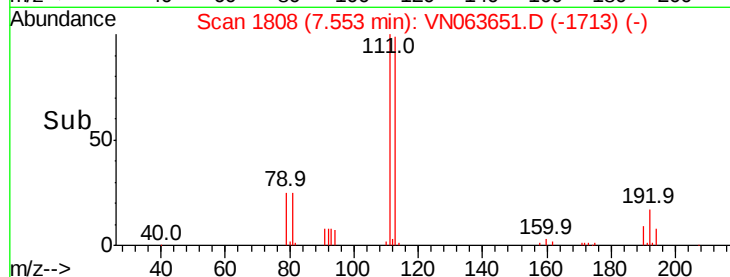
192 17.6 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.693 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

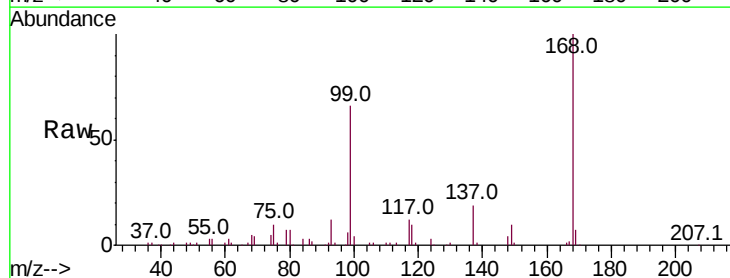
Tgt Ion: 75 Resp: 17780

Ion Ratio Lower Upper

75 100

110 10.3 16.5 49.5#

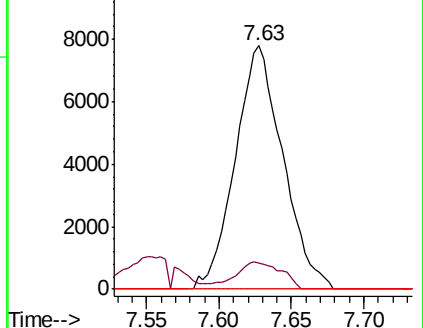
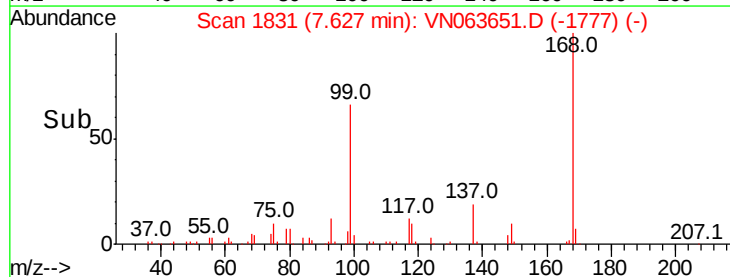
77 0.0 24.6 36.8#

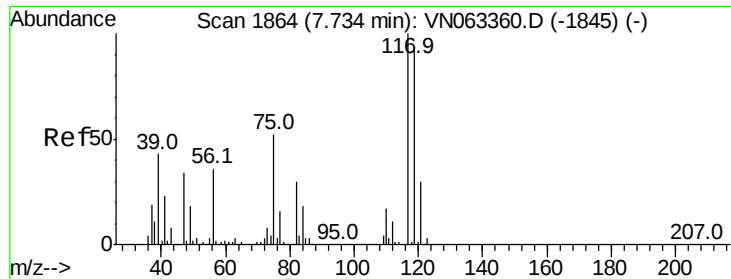


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

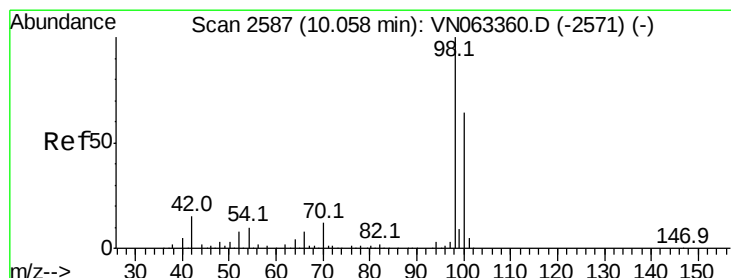
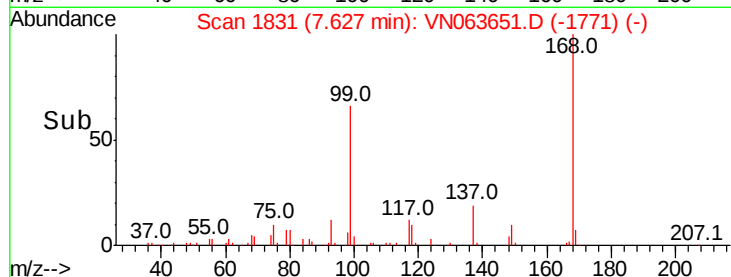
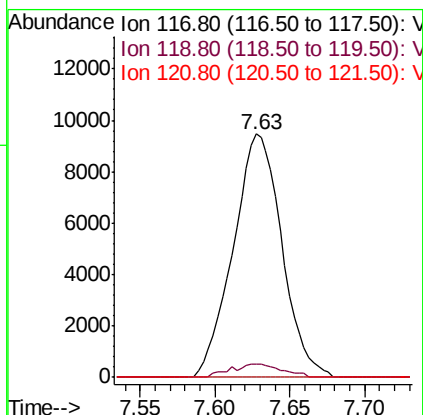
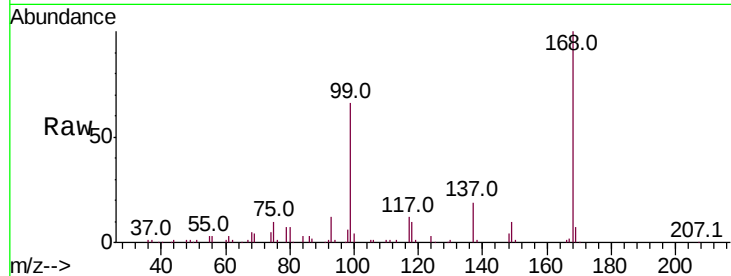




#38
Carbon Tetrachloride
Concen: 5.540 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN063651.D
Acq: 25 Sep 2020 1:26

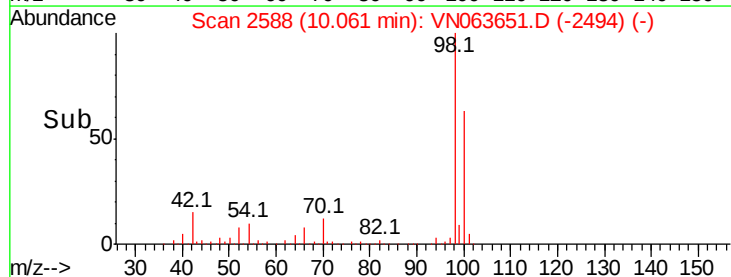
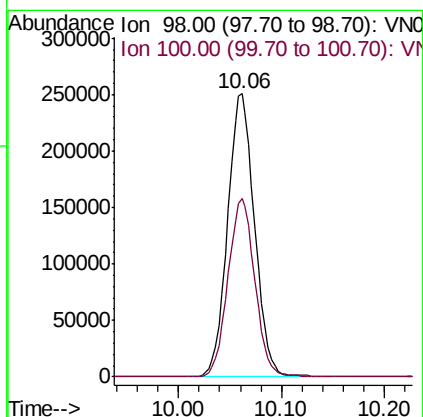
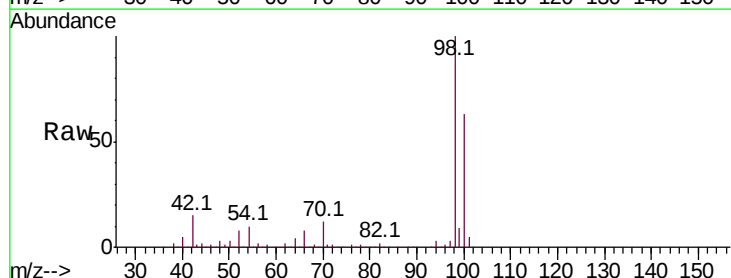
Instrument :
MSVOA_N
ClientSampleId :
PB131859TB

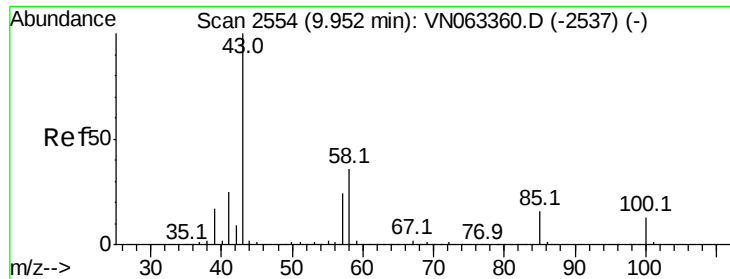
Tot Ion:117 Resp: 21426
Ion Ratio Lower Upper
117 100
119 5.6 74.5 111.7#
121 0.0 24.1 36.1#



#50
Toluene-d8
Concen: 49.316 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063651.D
Acq: 25 Sep 2020 1:26

Tgt Ion: 98 Resp: 456522
Ion Ratio Lower Upper
98 100
100 62.8 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.842 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

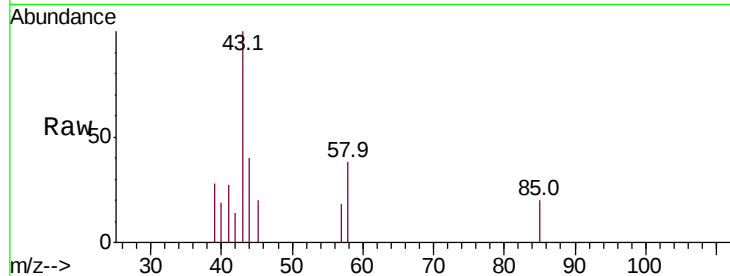
PB131859TB

Tot Ion: 43 Resp: 3135

Ion Ratio Lower Upper

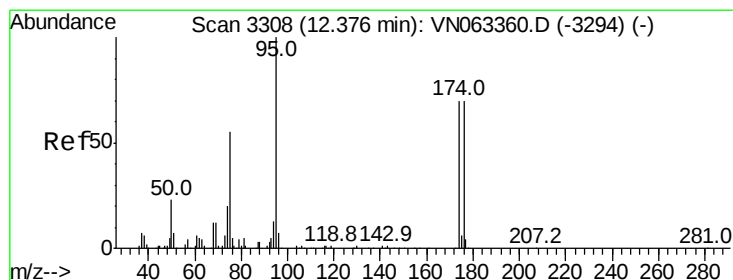
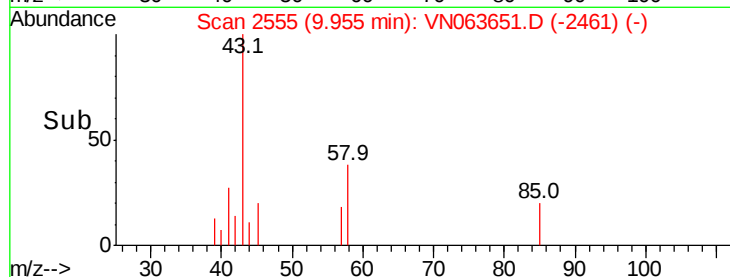
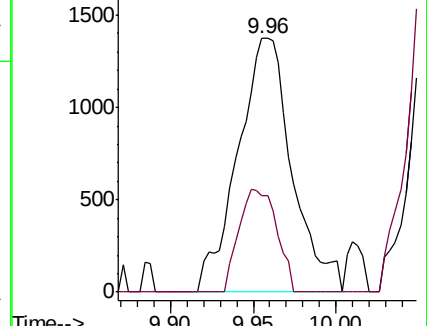
43 100

58 28.1 29.0 43.6#



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

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



#62

4-Bromofluorobenzene

Concen: 51.312 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

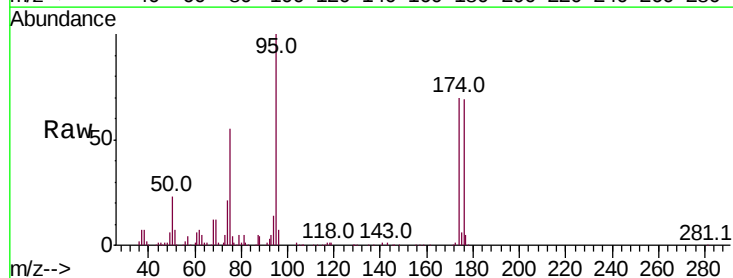
Tgt Ion: 95 Resp: 174124

Ion Ratio Lower Upper

95 100

174 71.5 0.0 140.8

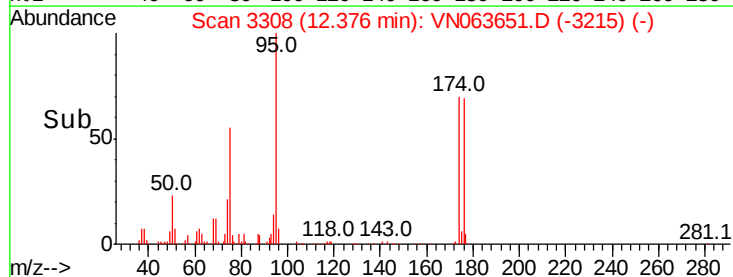
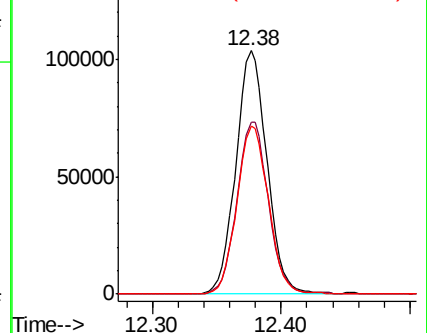
176 70.0 0.0 137.6

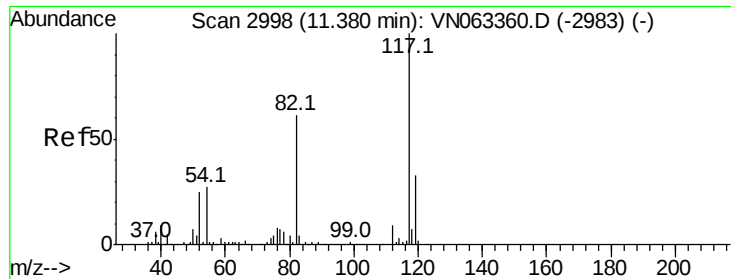


Abundance Ion 94.90 (94.60 to 95.60): VN063360.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063360.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063360.D (-3294) (-)

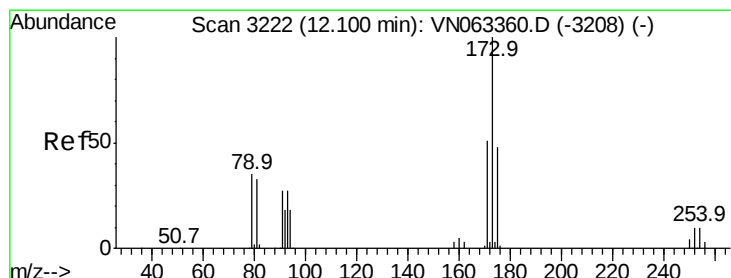
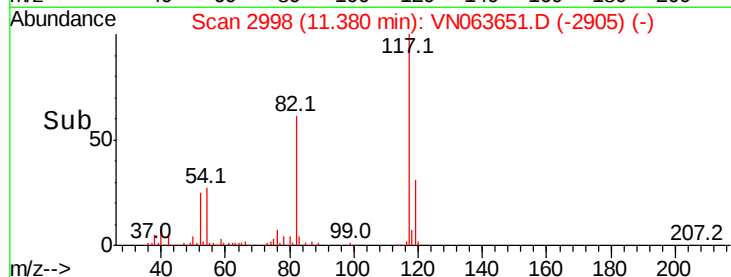
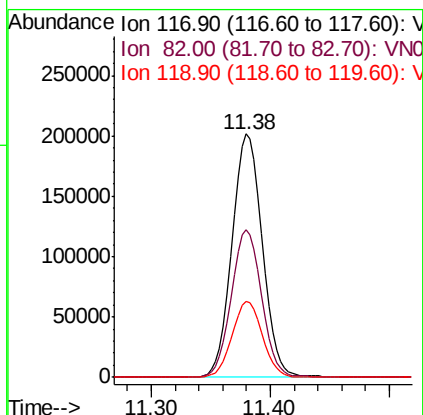
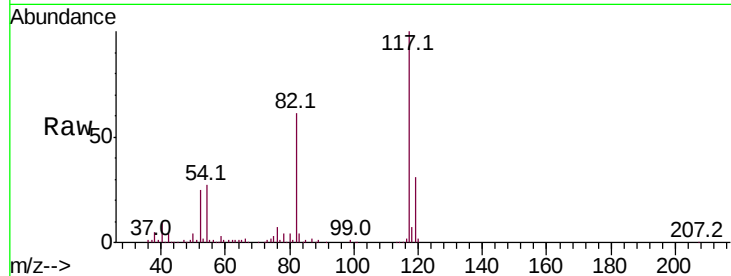




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063651.D
Acq: 25 Sep 2020 1:26

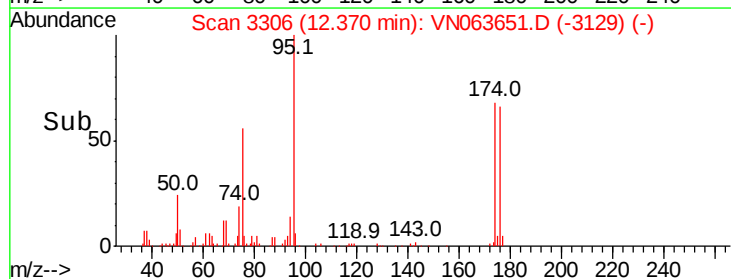
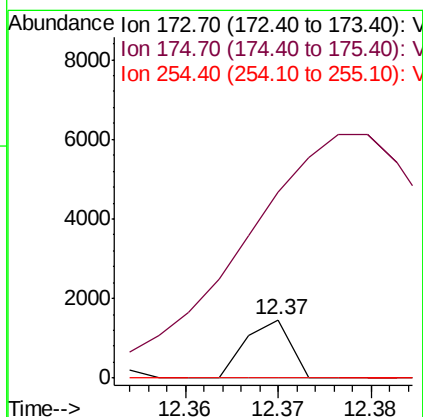
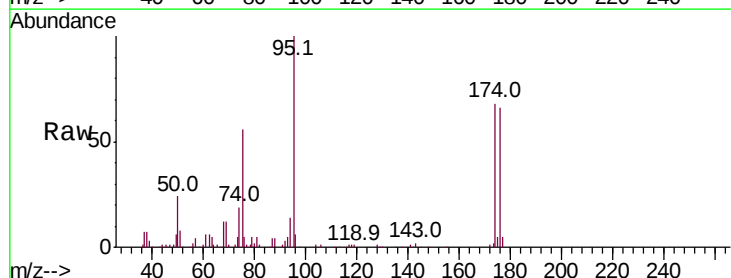
Instrument :
MSVOA_N
ClientSampled :
PB131859TB

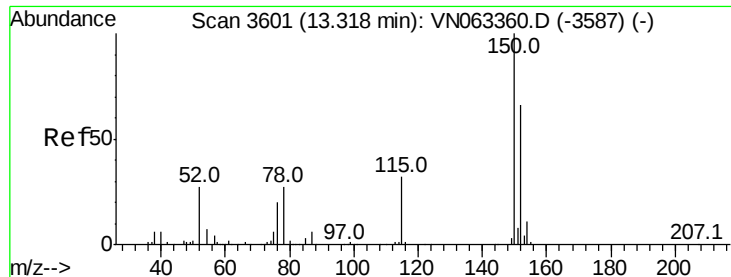
Tot Ion:117 Resp: 356622
Ion Ratio Lower Upper
117 100
82 60.8 49.2 73.8
119 31.4 26.2 39.4



#71
Bromoform
Concen: 0.238 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN063651.D
Acq: 25 Sep 2020 1:26

Tgt Ion:173 Resp: 492
Ion Ratio Lower Upper
173 100
175 1653.9 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

PB131859TB

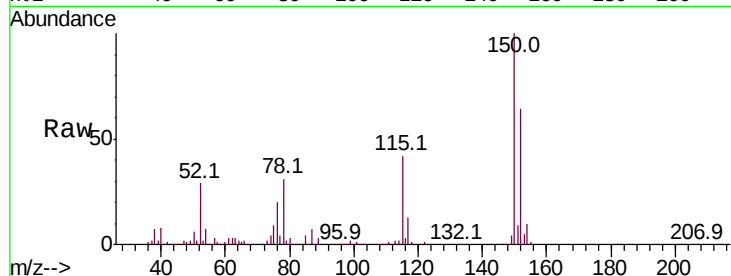
Tot Ion:152 Resp: 144530

Ion Ratio Lower Upper

152 100

115 63.9 32.2 96.6

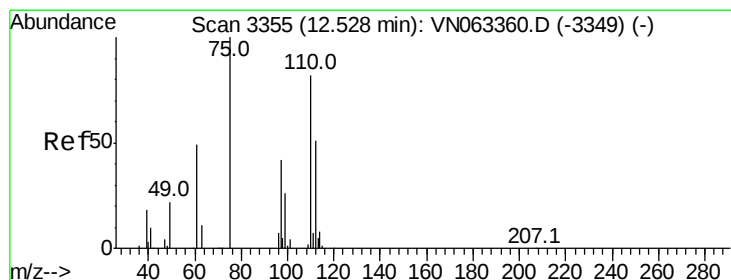
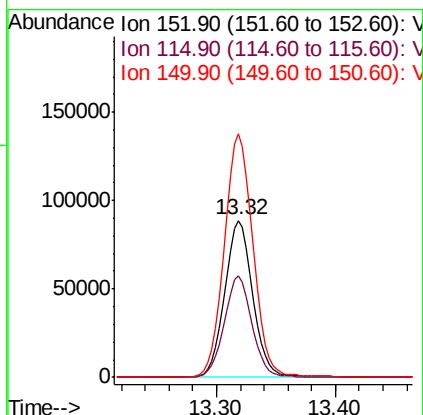
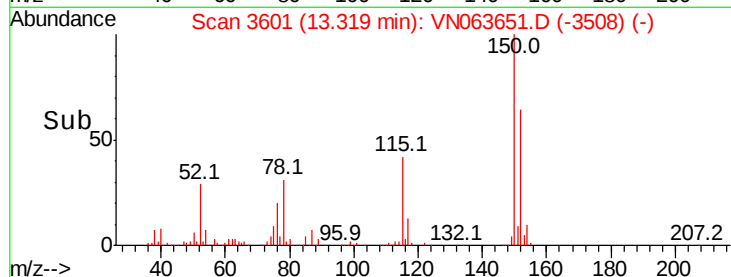
150 159.8 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.210 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063651.D

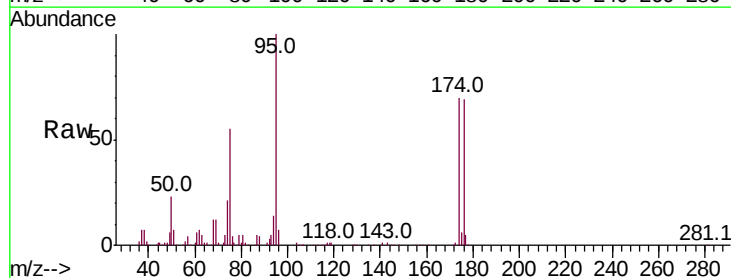
Acq: 25 Sep 2020 1:26

Tgt Ion: 75 Resp: 97338

Ion Ratio Lower Upper

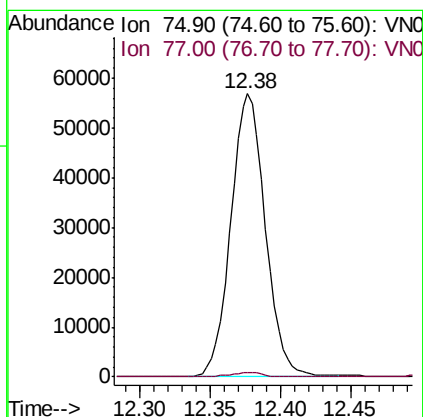
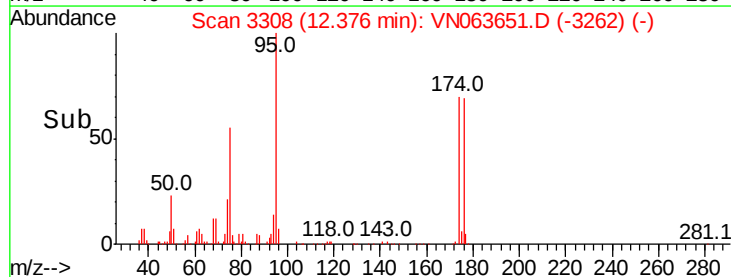
75 100

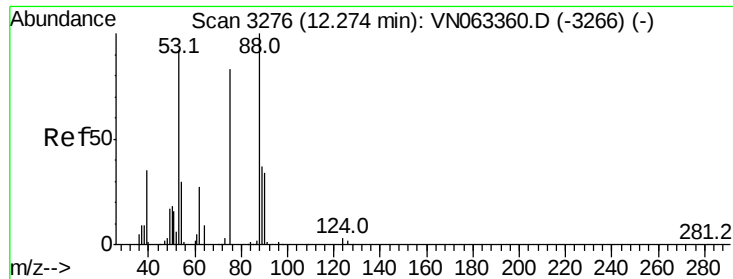
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 74.599 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampled :

PB131859TB

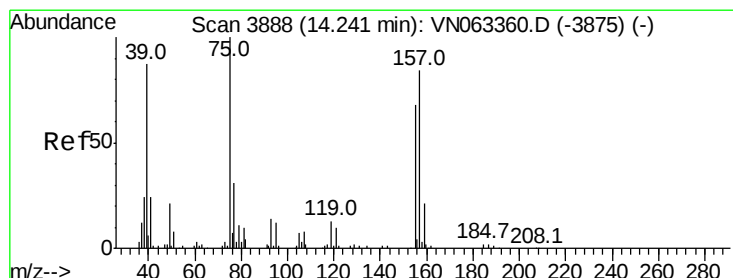
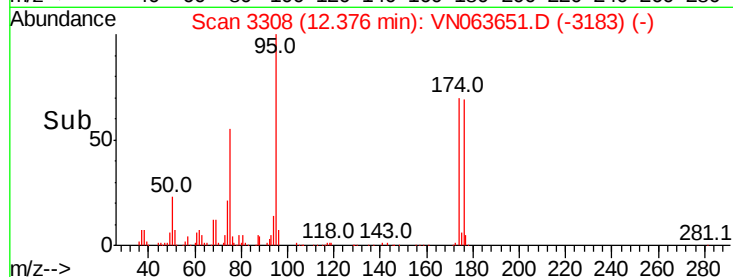
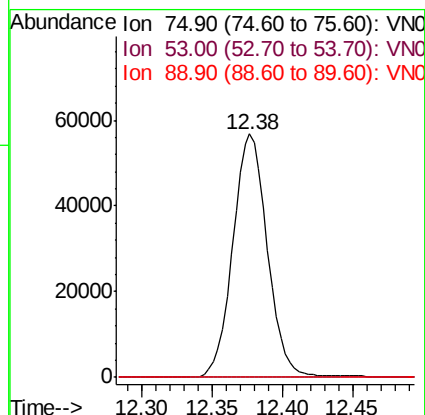
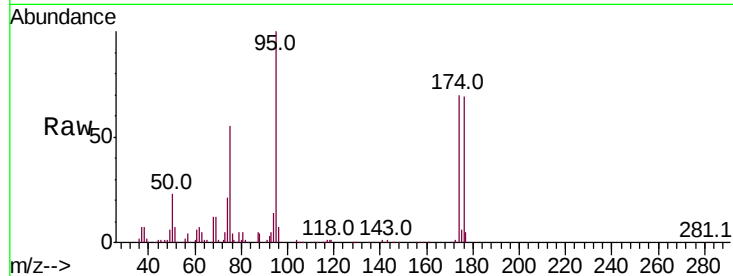
Tot Ion: 75 Resp: 97338

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.210 ug/l

RT: 14.24 min Scan# 3889

Delta R.T. 0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

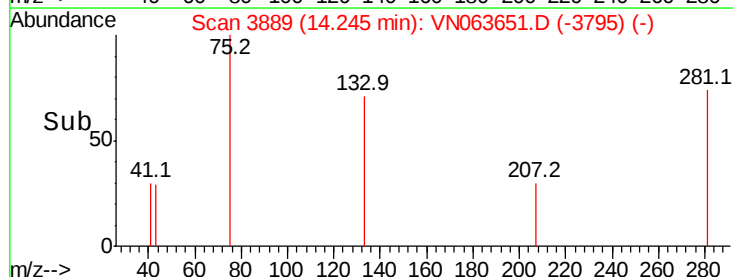
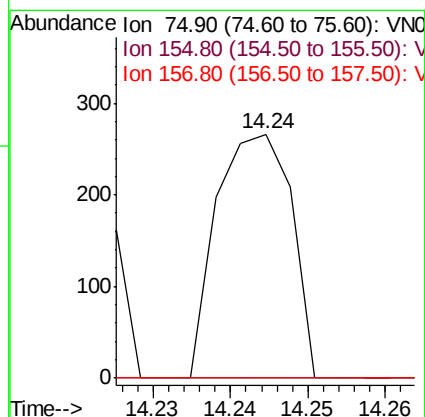
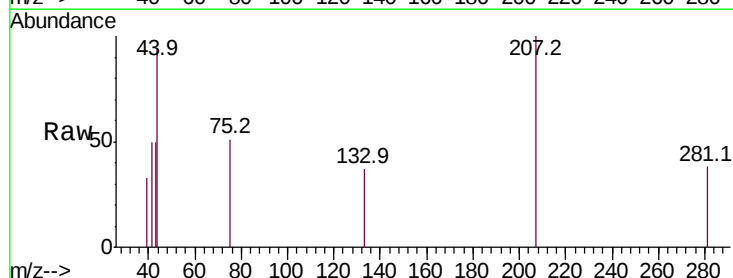
Tgt Ion: 75 Resp: 179

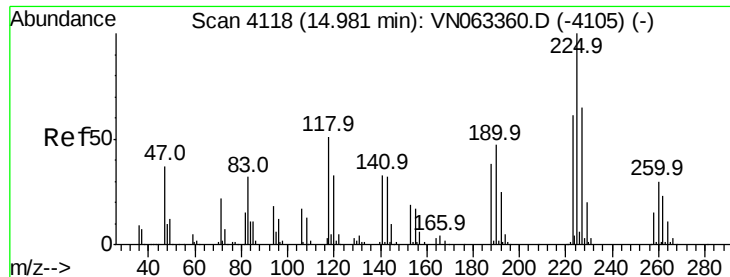
Ion Ratio Lower Upper

75 100

155 0.0 34.6 103.9#

157 0.0 43.7 131.1#





#94

Hexachlorobutadiene

Concen: 0.378 ug/l

RT: 14.98 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

Instrument :

MSVOA_N

ClientSampleId :

PB131859TB

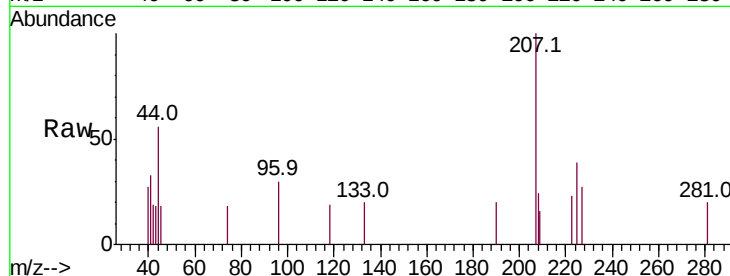
Tot Ion:225 Resp: 437

Ion Ratio Lower Upper

225 100

223 90.2 30.6 91.6

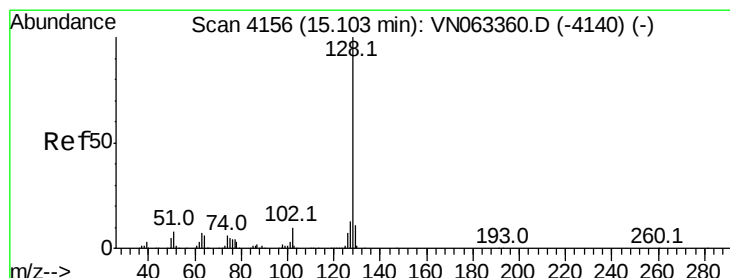
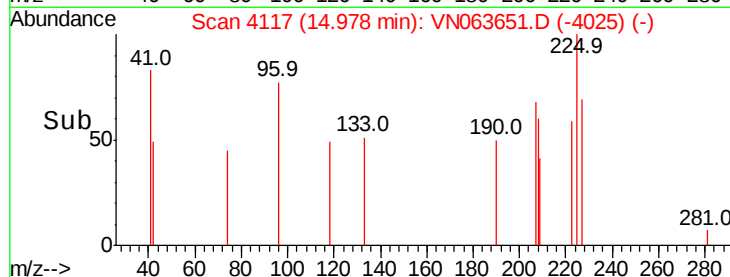
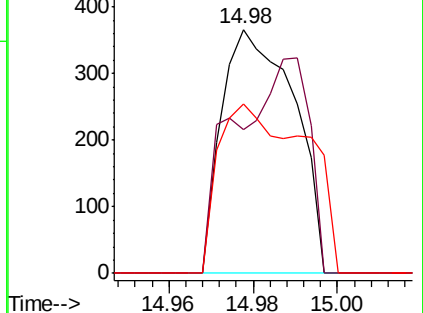
227 84.2 31.2 93.6



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.335 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063651.D

Acq: 25 Sep 2020 1:26

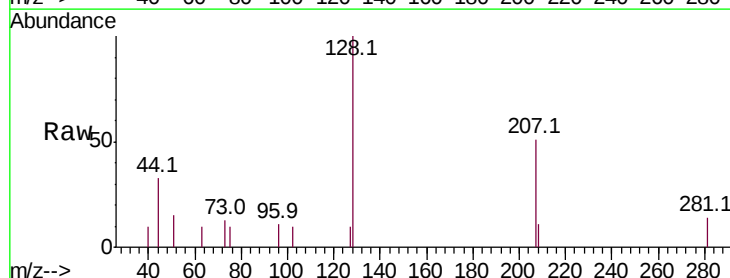
Tgt Ion:128 Resp: 3094

Ion Ratio Lower Upper

128 100

127 7.0 10.6 15.8#

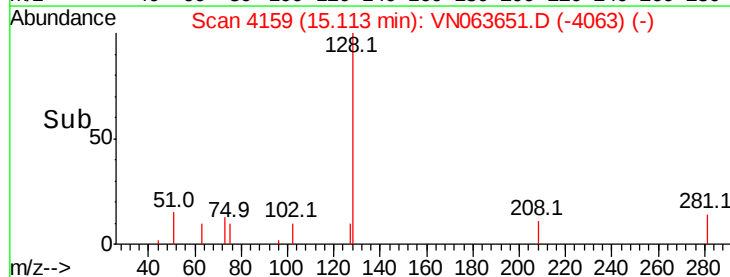
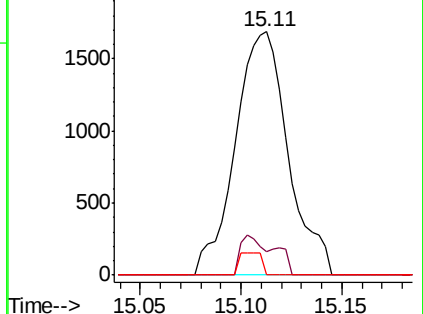
129 3.9 8.8 13.2#

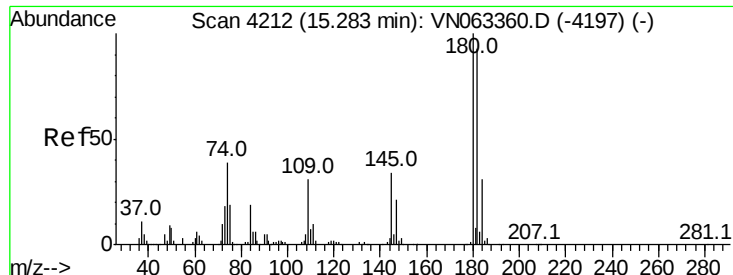


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.292 ug/l
 RT: 15.29 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN063651.D
 Acq: 25 Sep 2020 1:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB131859TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.8	46.7	140.1
145	17.5	16.8	50.3

