

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092520\
 Data File : VN063678.D
 Acq On : 25 Sep 2020 15:07
 Operator : JC/MD
 Sample : L4119-12DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921DL

Quant Time: Sep 28 02:02:31 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	196717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	361102	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	370023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156154	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	167927	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	7.55	113	120160	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
50) Toluene-d8	10.06	98	469764	49.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.96%	
62) 4-Bromofluorobenzene	12.38	95	183929	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	

Target Compounds

						Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.72	101	2142	0.977	ug/l #	79
11) Tert butyl alcohol	4.71	59	178	0.384	ug/l #	72
16) Acetone	3.79	43	1726	1.604	ug/l #	47
17) Carbon Disulfide	4.01	76	1955	0.303	ug/l #	75
25) 2-Butanone	6.77	43	650	0.393	ug/l #	51
31) Cyclohexane	7.63	56	5638	1.219	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	19499	5.069	ug/l #	48
38) Carbon Tetrachloride	7.63	117	21943	5.588	ug/l #	17
44) Trichloroethene	8.80	130	281306	105.611	ug/l	98
45) 1,2-Dichloropropane	8.80	63	1027	0.343	ug/l #	1
49) 1,4-Dioxane	9.16	88	106	2.227	ug/l #	16
60) Dibromochloromethane	10.60	129	755	0.255	ug/l #	10
64) Tetrachloroethene	10.60	164	748	0.297	ug/l #	74
76) 1,2,3-Trichloropropane	12.38	75	107629	27.847	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	107629	76.346	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.89	180	917	0.304	ug/l #	48
94) Hexachlorobutadiene	14.99	225	707	0.566	ug/l #	62
95) Naphthalene	15.10	128	3063	0.307	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.29	180	949	0.325	ug/l #	80

(#) = 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: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

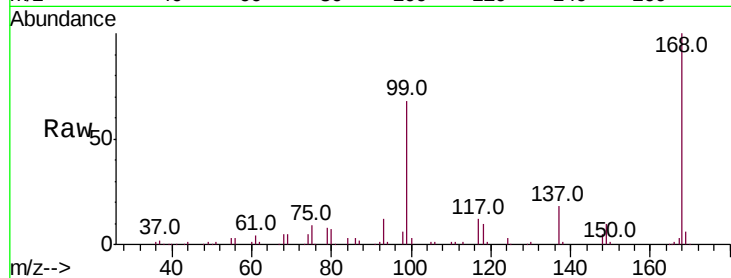
DUP05-20200921DL

Tot Ion:168 Resp: 196717

Ion Ratio Lower Upper

168 100

99 68.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

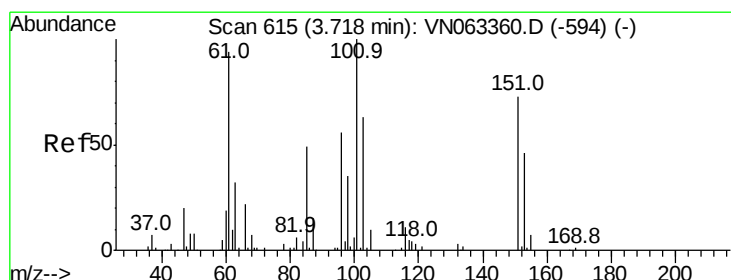
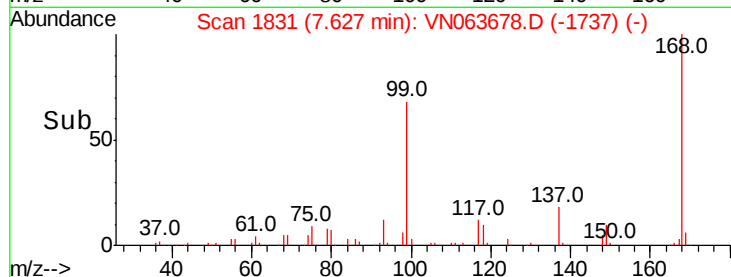
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.977 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

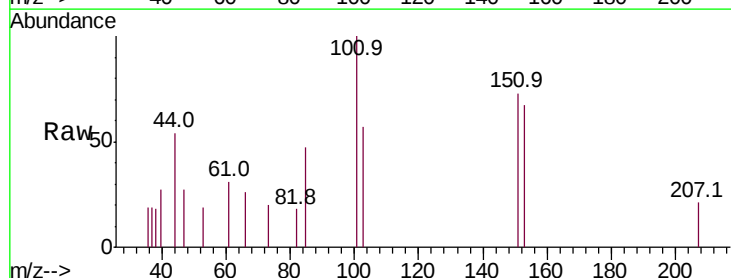
Tgt Ion:101 Resp: 2142

Ion Ratio Lower Upper

101 100

85 33.2 37.7 56.5#

151 54.6 57.7 86.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V

1000

800

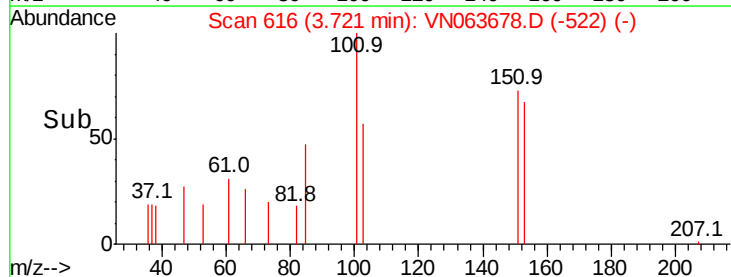
600

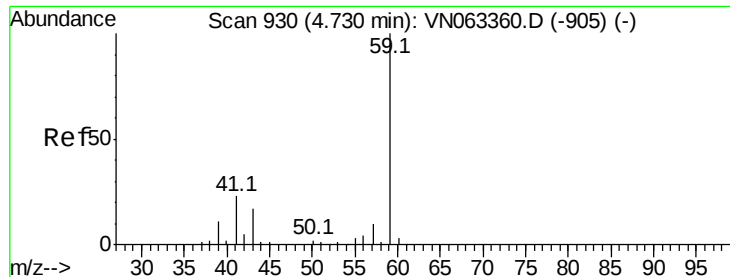
400

200

0

Time--> 3.65 3.70 3.75



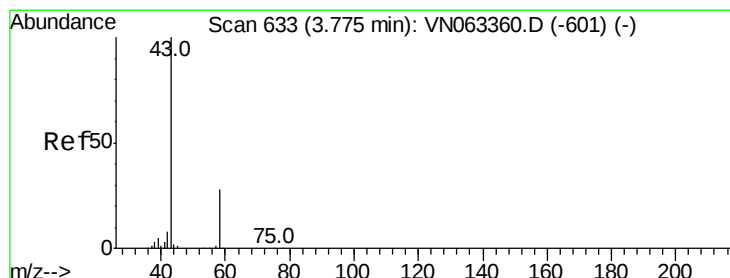
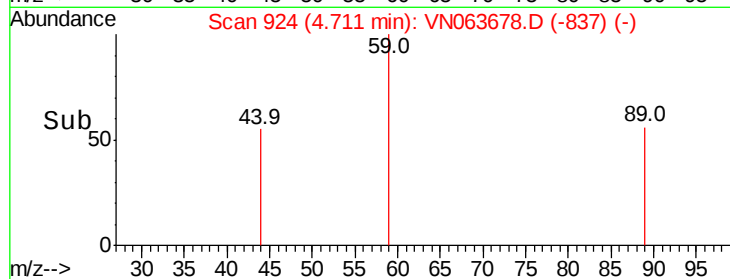
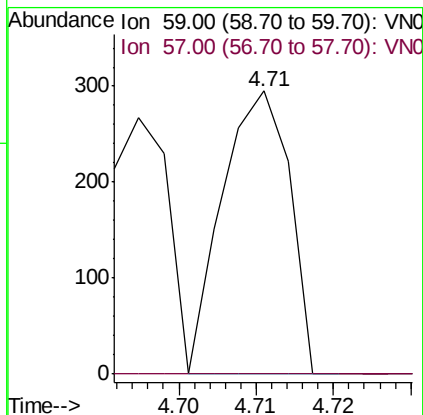
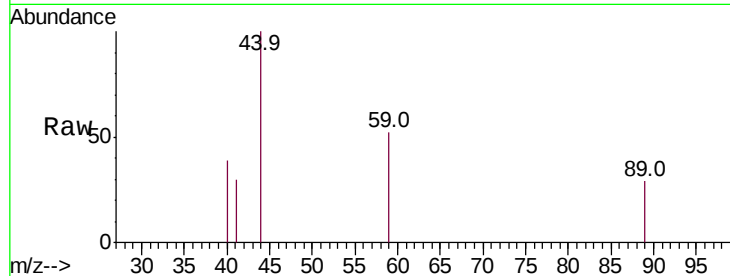


#11

Tert butyl alcohol
 Concen: 0.384 ug/l
 RT: 4.71 min Scan# 924
 Delta R.T. -0.02 min
 Lab File: VN063678.D
 Acq: 25 Sep 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921DL

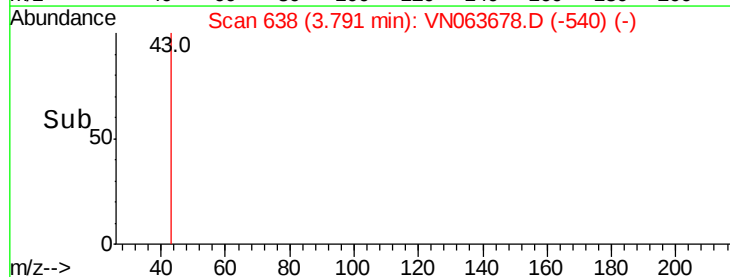
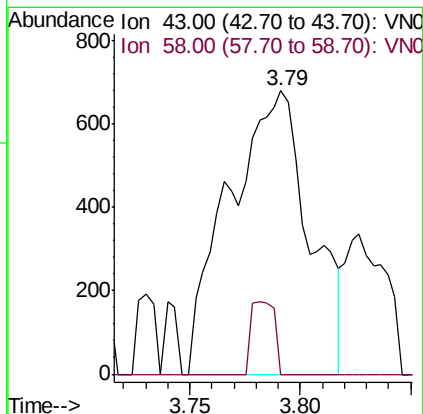
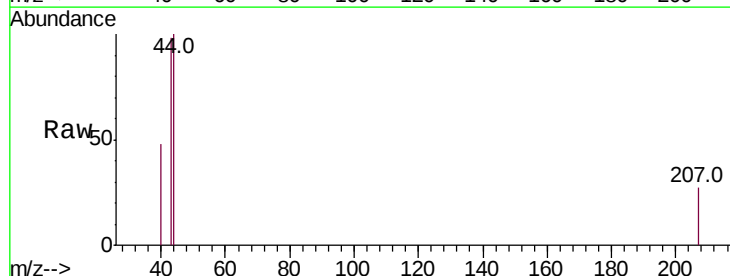
Tot Ion: 59 Resp: 178
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

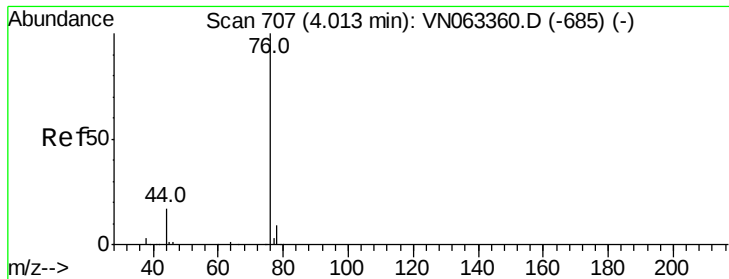


#16

Acetone
 Concen: 1.604 ug/l
 RT: 3.79 min Scan# 638
 Delta R.T. 0.02 min
 Lab File: VN063678.D
 Acq: 25 Sep 2020 15:07

Tgt Ion: 43 Resp: 1726
 Ion Ratio Lower Upper
 43 100
 58 0.0 22.3 33.5#





#17

Carbon Disulfide

Concen: 0.303 ug/l

RT: 4.01 min Scan# 705

Delta R.T. -0.01 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

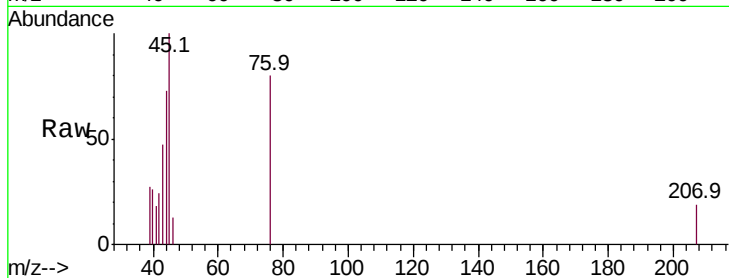
DUP05-20200921DL

Tot Ion: 76 Resp: 1955

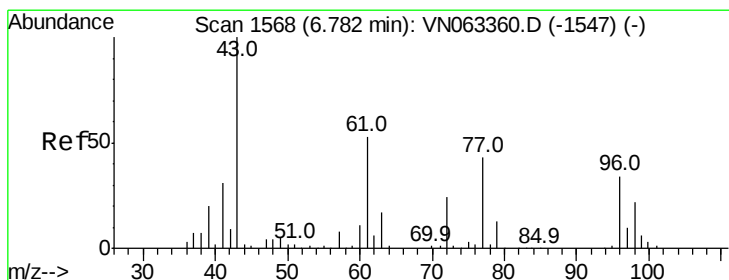
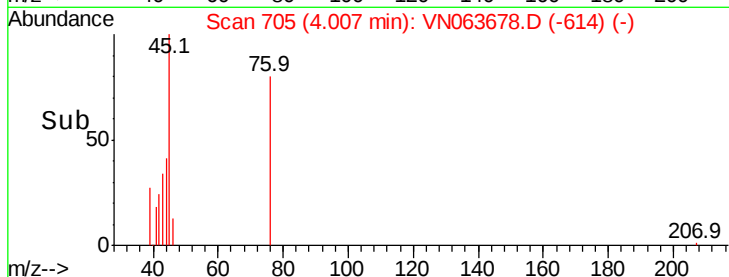
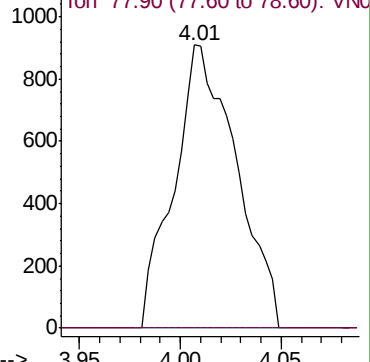
Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN063360.D (-685) (-)



#25

2-Butanone

Concen: 0.393 ug/l

RT: 6.77 min Scan# 1564

Delta R.T. -0.01 min

Lab File: VN063678.D

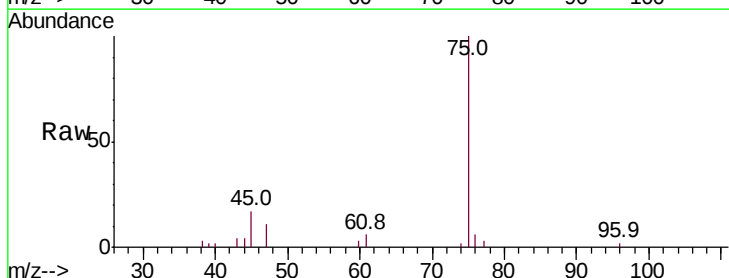
Acq: 25 Sep 2020 15:07

Tgt Ion: 43 Resp: 650

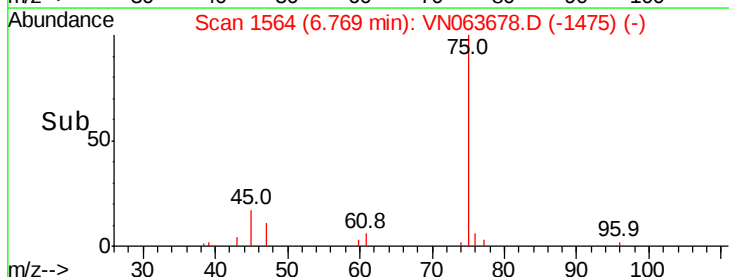
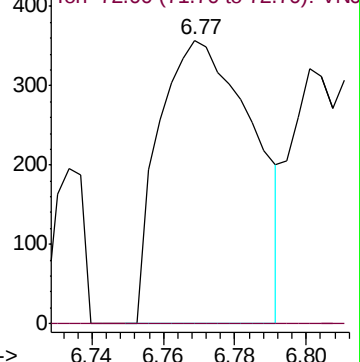
Ion Ratio Lower Upper

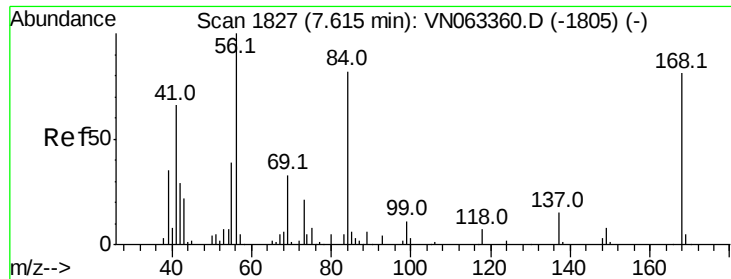
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1547) (-)

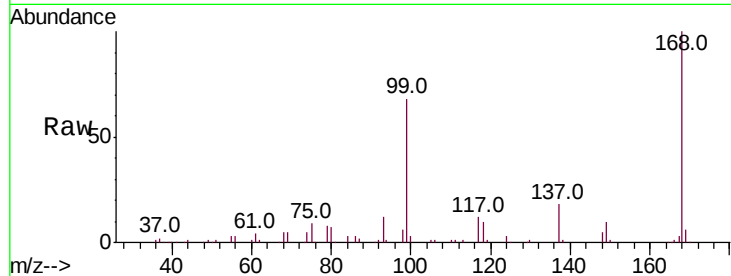




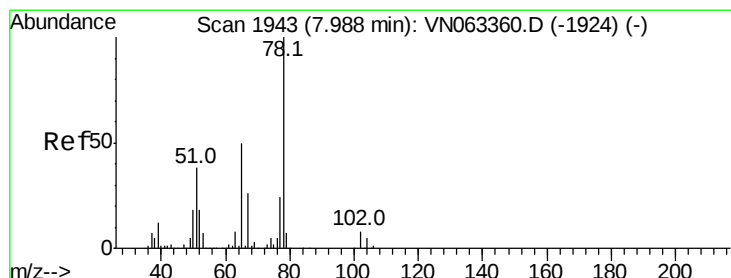
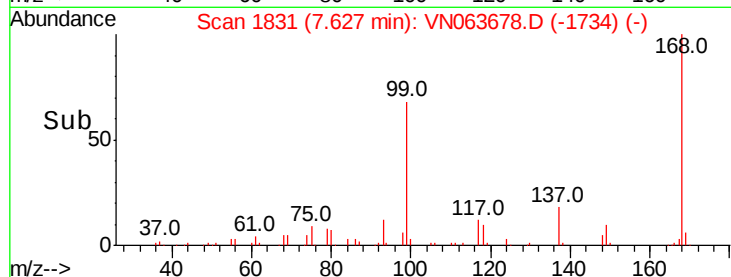
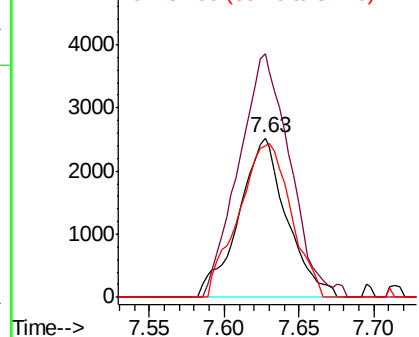
#31
Cyclohexane
Concen: 1.219 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921DL

Tot Ion: 56 Resp: 5638
Ion Ratio Lower Upper
56 100
69 152.4 26.1 39.1#
84 95.2 65.4 98.2

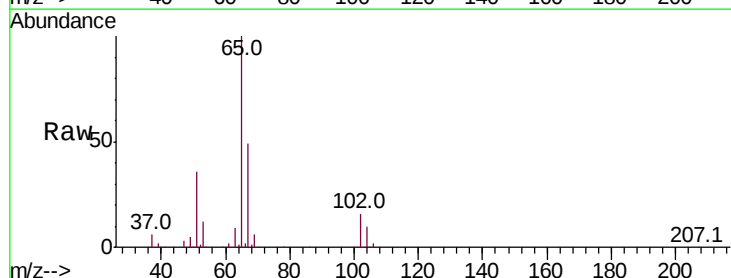


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

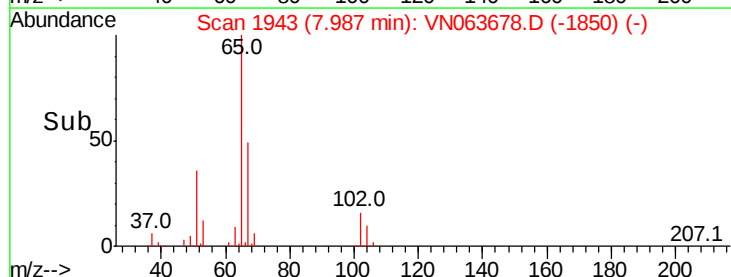
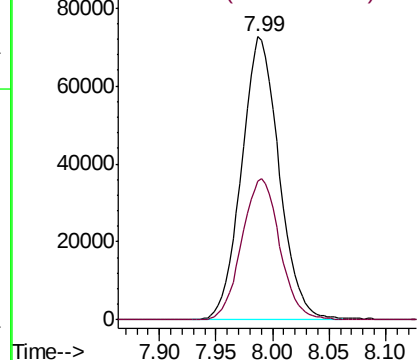


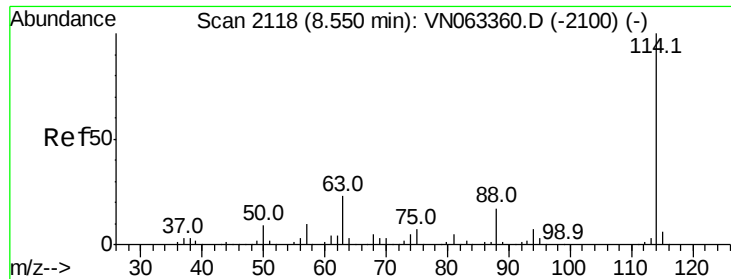
#33
1,2-Dichloroethane-d4
Concen: 50.148 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

Tgt Ion: 65 Resp: 167927
Ion Ratio Lower Upper
65 100
67 50.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

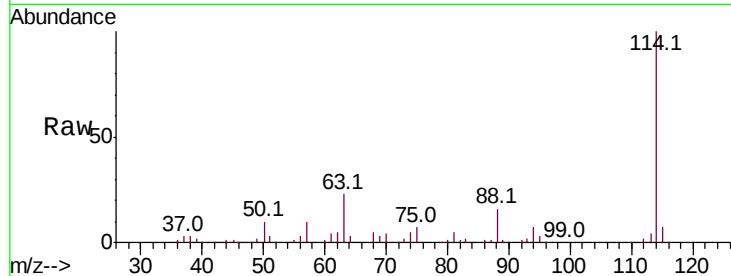




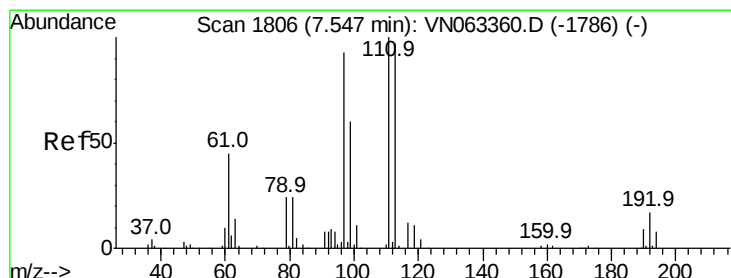
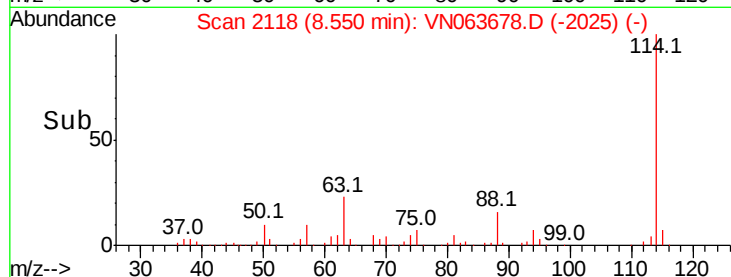
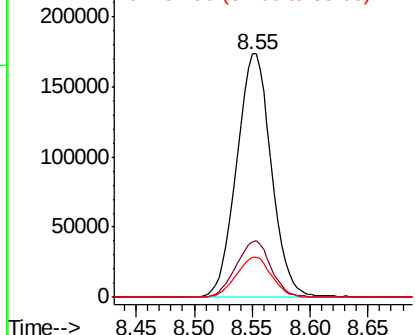
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063678.D
 Acq: 25 Sep 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921DL

Tot Ion:	114	Resp:	361102
Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	46.4
88	16.5	0.0	33.2

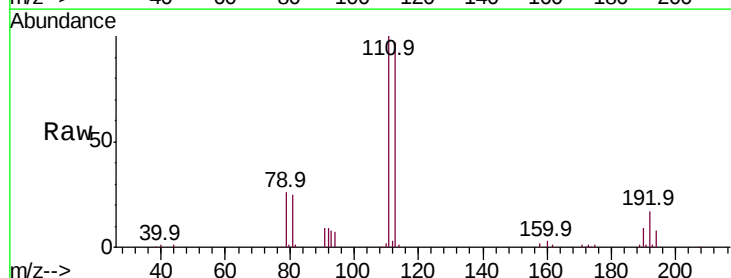


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

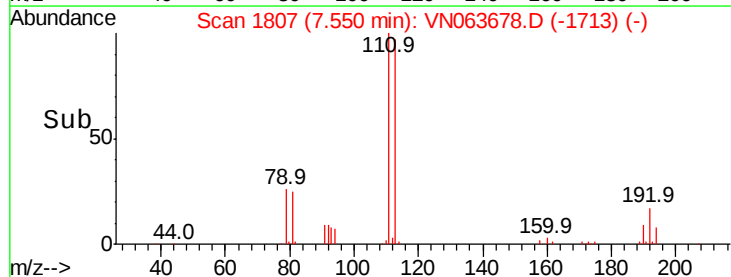
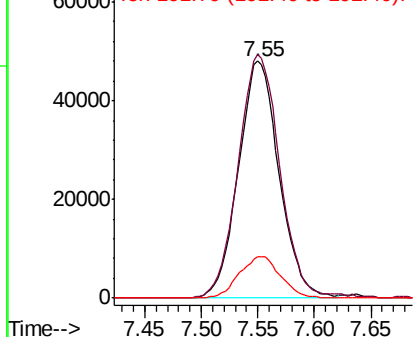


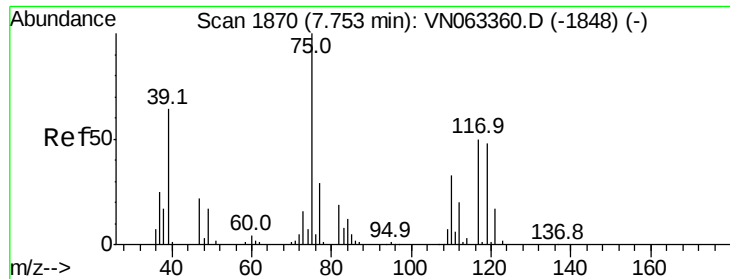
#35
 Dibromofluoromethane
 Concen: 48.067 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063678.D
 Acq: 25 Sep 2020 15:07

Tgt Ion:	113	Resp:	120160
Ion	Ratio	Lower	Upper
113	100		
111	104.6	82.9	124.3
192	17.8	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: 5.069 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.12 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921DL

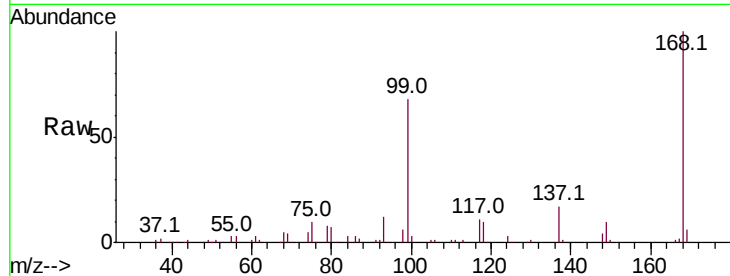
Tot Ion: 75 Resp: 19499

Ion Ratio Lower Upper

75 100

110 5.3 16.5 49.5#

77 0.0 24.6 36.8#

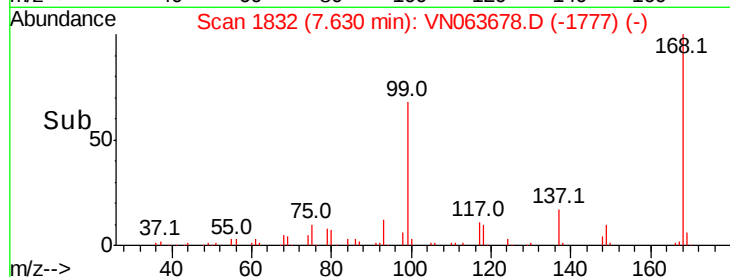


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063360.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-1848) (-)

Time-->

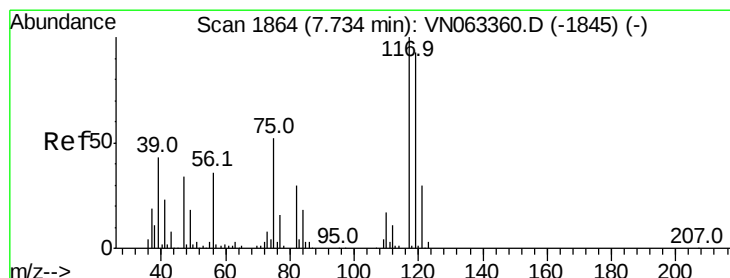


Abundance Ion 74.90 (74.60 to 75.60): VN063678.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN063678.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN063678.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.588 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

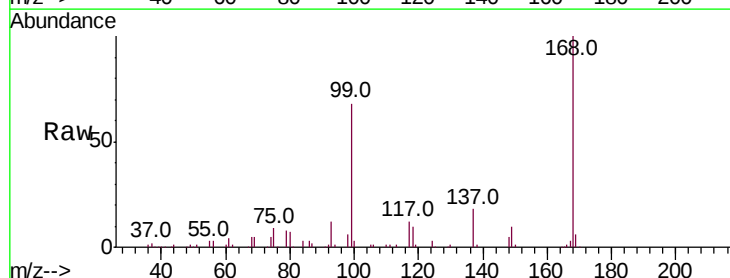
Tgt Ion: 117 Resp: 21943

Ion Ratio Lower Upper

117 100

119 4.4 74.5 111.7#

121 0.0 24.1 36.1#

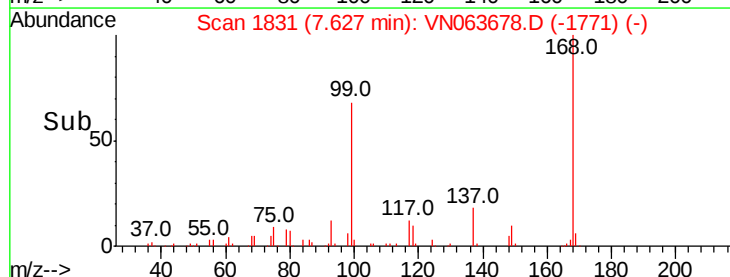


Abundance Ion 116.80 (116.50 to 117.50): VN063360.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN063360.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN063360.D (-1845) (-)

Time-->

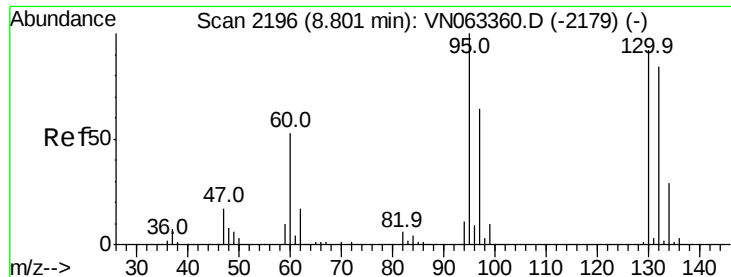


Abundance Ion 116.80 (116.50 to 117.50): VN063678.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN063678.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN063678.D (-1771) (-)

Time-->



#44

Trichloroethene

Concen: 105.611 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

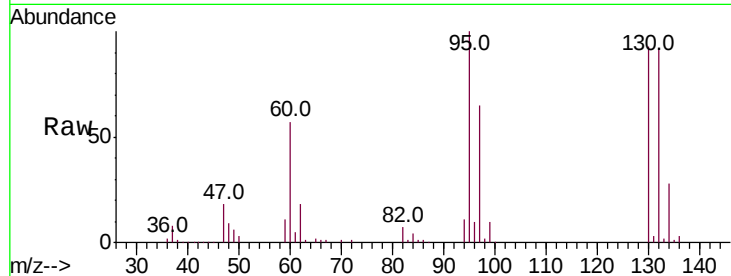
DUP05-20200921DL

Tot Ion:130 Resp: 281306

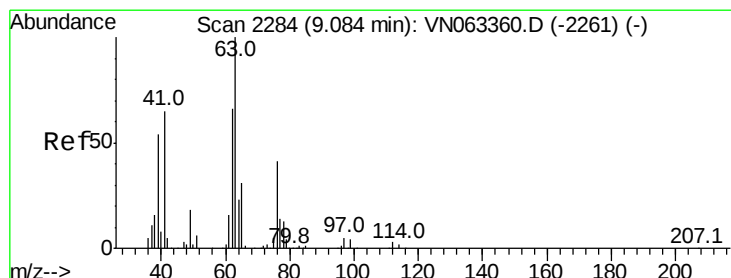
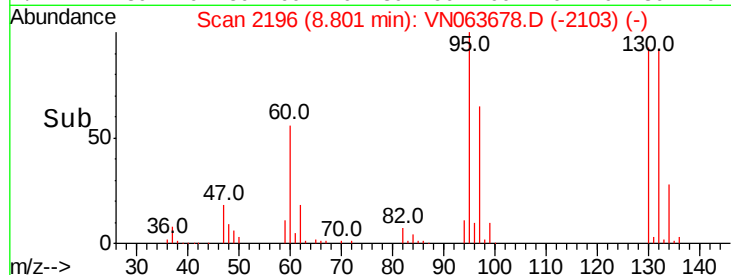
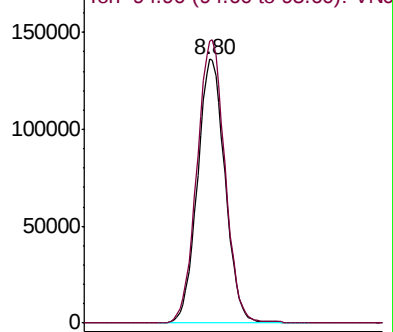
Ion Ratio Lower Upper

130 100

95 107.0 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063360.D (-2179) (-)



#45

1,2-Dichloropropane

Concen: 0.343 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.28 min

Lab File: VN063678.D

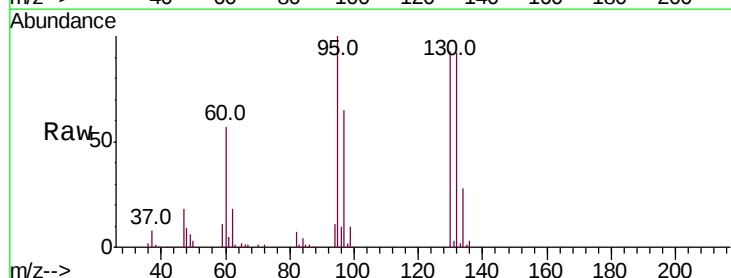
Acq: 25 Sep 2020 15:07

Tgt Ion: 63 Resp: 1027

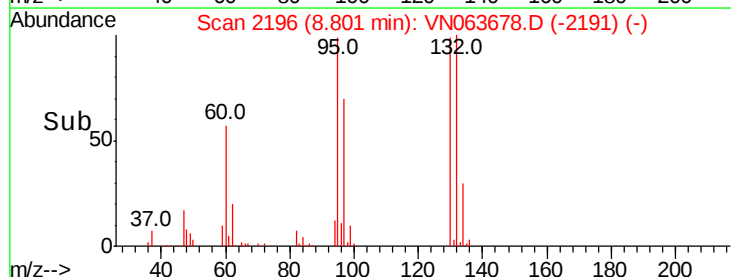
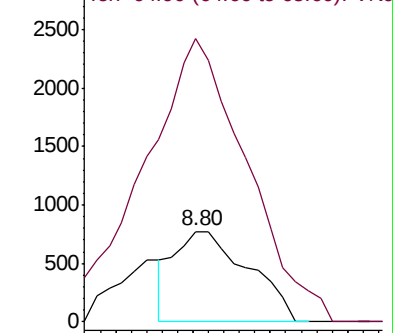
Ion Ratio Lower Upper

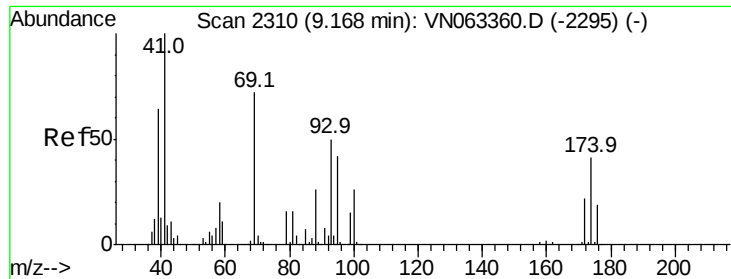
63 100

65 279.2 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

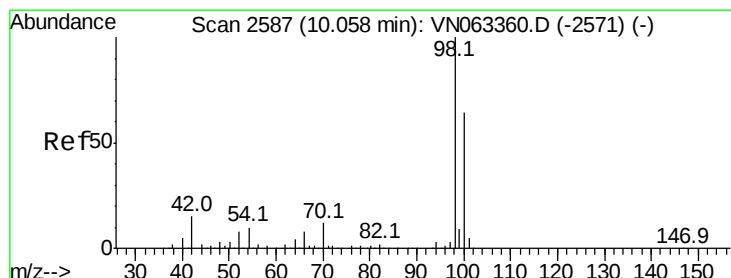
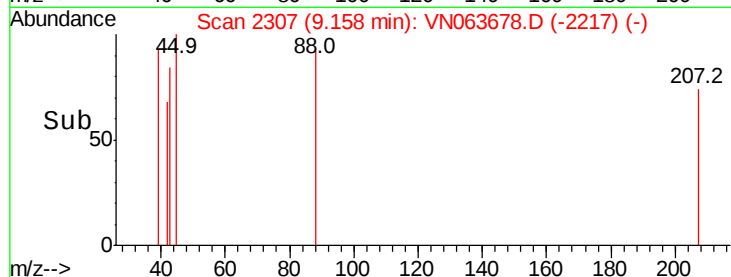
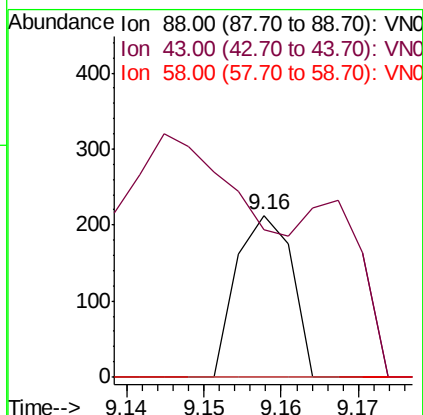
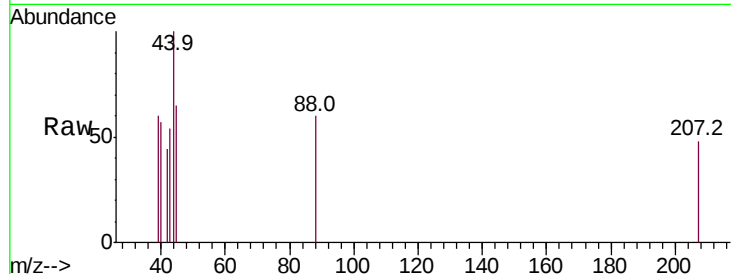




#49
1,4-Dioxane
Concen: 2.227 ug/l
RT: 9.16 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

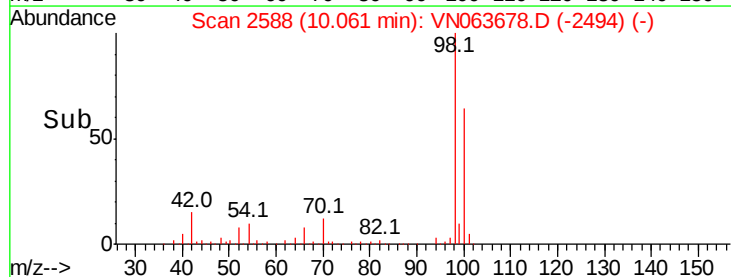
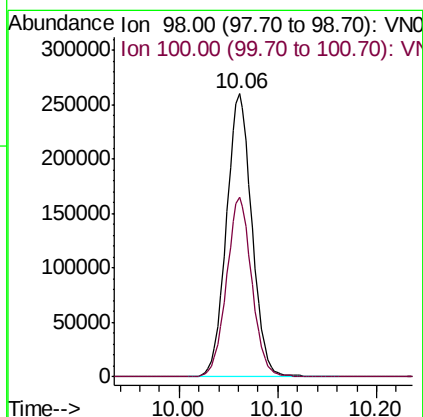
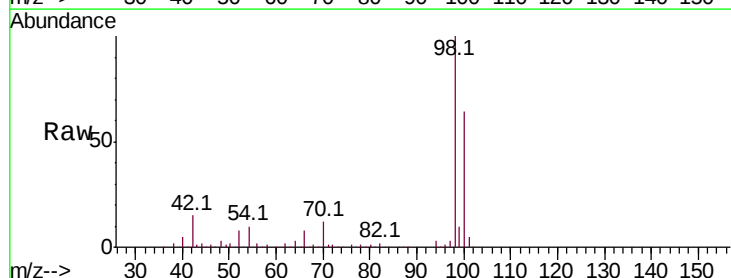
Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921DL

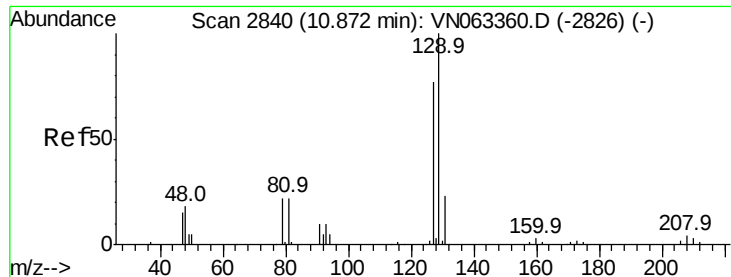
Tot Ion: 88 Resp: 106
Ion Ratio Lower Upper
88 100
43 88.7 32.6 49.0#
58 0.0 60.0 90.0#



#50
Toluene-d8
Concen: 49.976 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

Tgt Ion: 98 Resp: 469764
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1





#60

Dibromochloromethane

Concen: 0.255 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

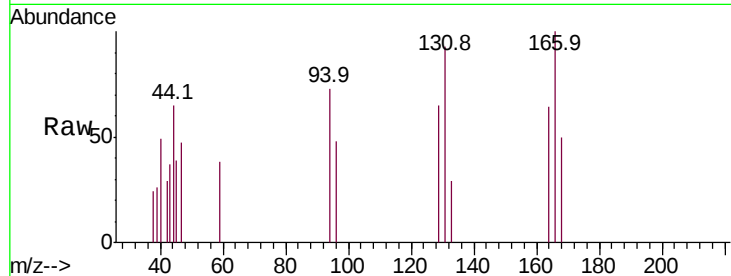
DUP05-20200921DL

Tot Ion:129 Resp: 755

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.60

400

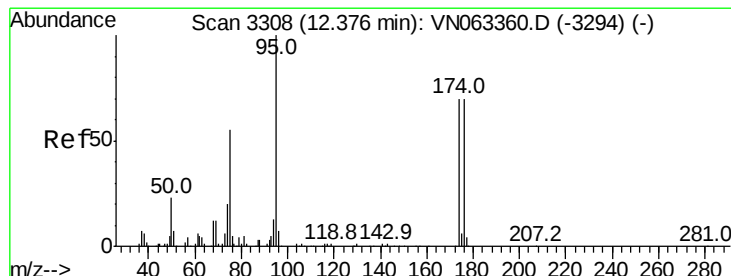
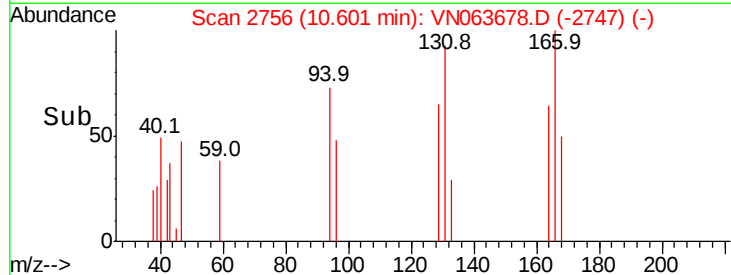
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.378 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

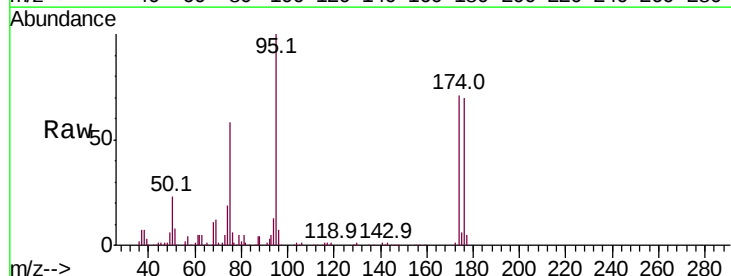
Tgt Ion: 95 Resp: 183929

Ion Ratio Lower Upper

95 100

174 72.9 0.0 140.8

176 71.2 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.38

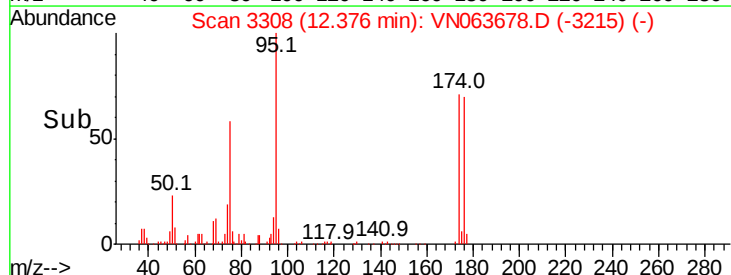
150000

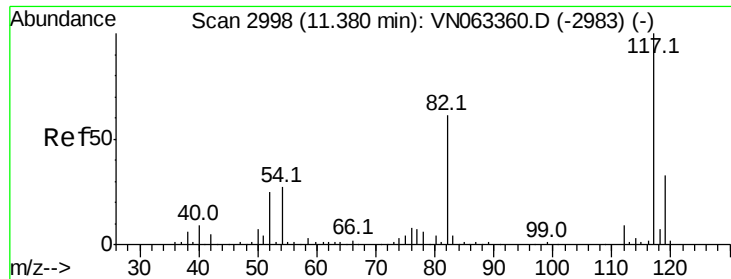
100000

50000

0

Time-->

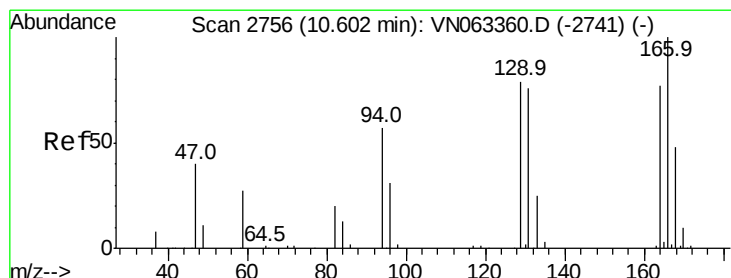
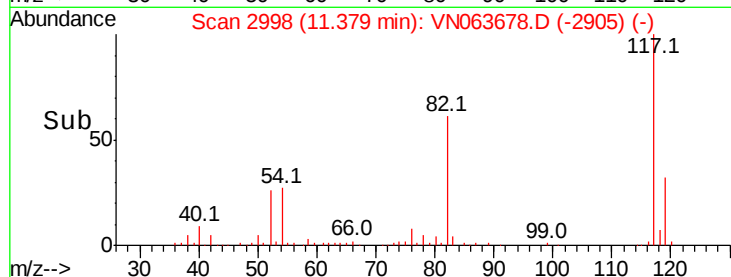
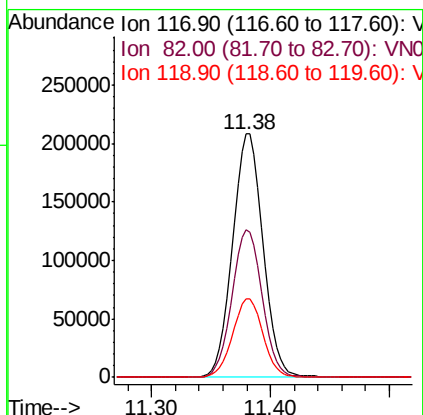
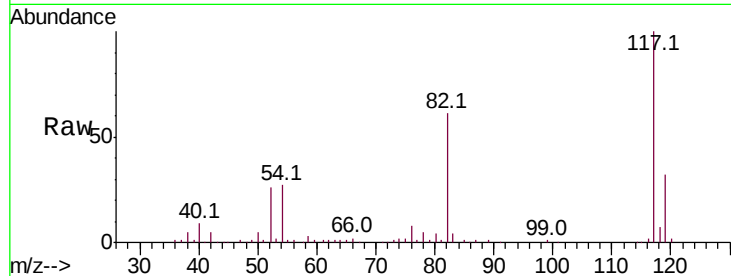




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

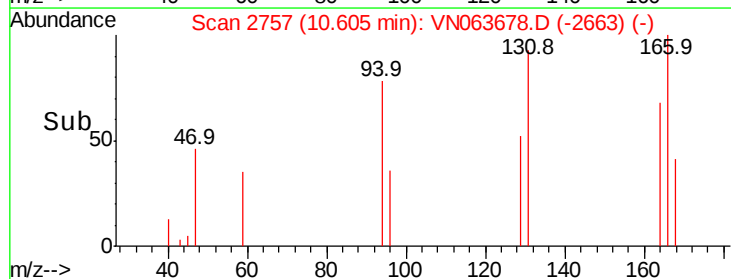
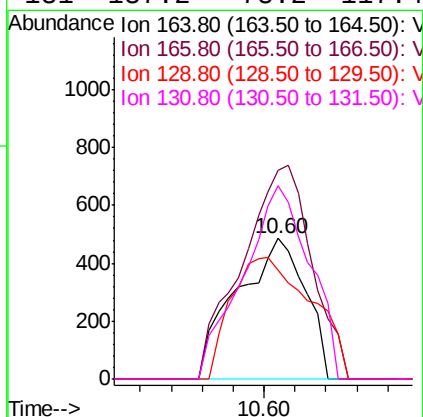
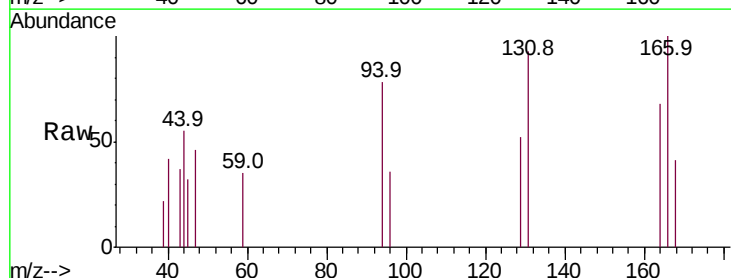
Instrument :
MSVOA_N
ClientSampleId :
DUP05-20200921DL

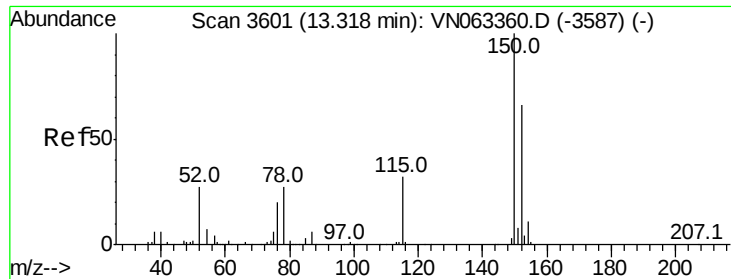
Tot Ion:117 Resp: 370023
Ion Ratio Lower Upper
117 100
82 60.7 49.2 73.8
119 32.5 26.2 39.4



#64
Tetrachloroethene
Concen: 0.297 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063678.D
Acq: 25 Sep 2020 15:07

Tgt Ion:164 Resp: 748
Ion Ratio Lower Upper
164 100
166 148.1 103.4 155.0
129 77.6 81.8 122.6#
131 137.2 78.2 117.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. -0.00 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921DL

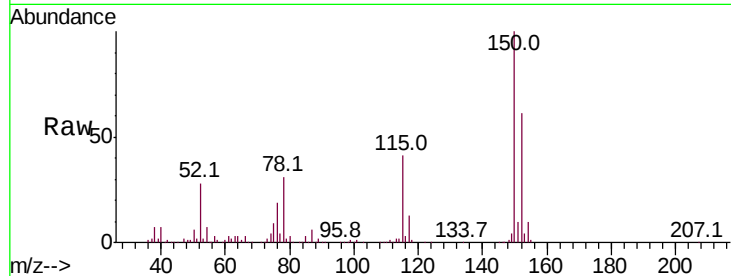
Tot Ion:152 Resp: 156154

Ion Ratio Lower Upper

152 100

115 64.5 32.2 96.6

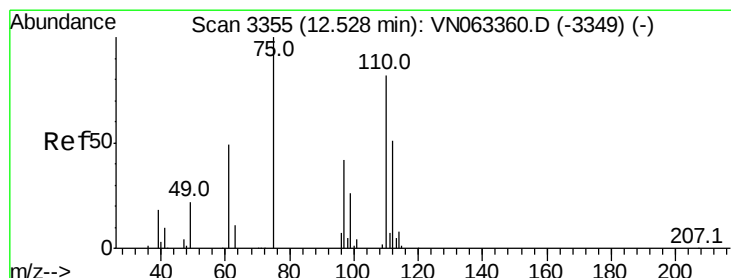
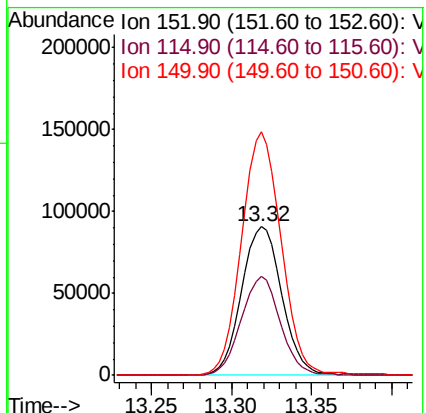
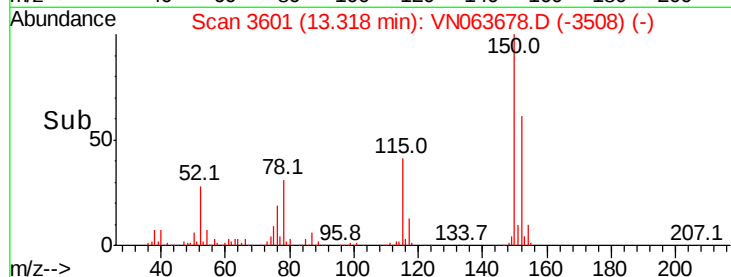
150 161.3 0.0 343.4



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: 27.847 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063678.D

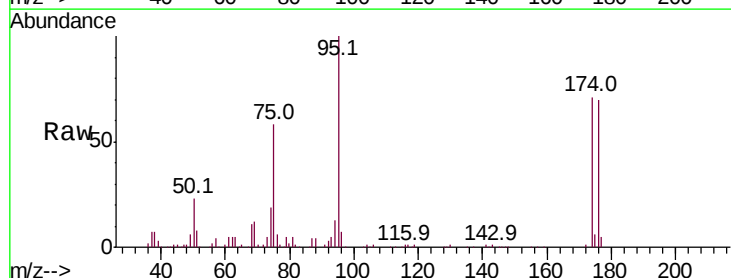
Acq: 25 Sep 2020 15:07

Tgt Ion: 75 Resp: 107629

Ion Ratio Lower Upper

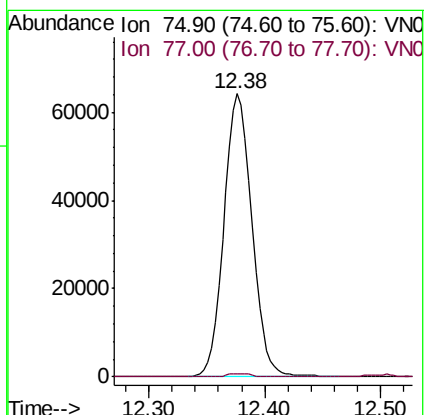
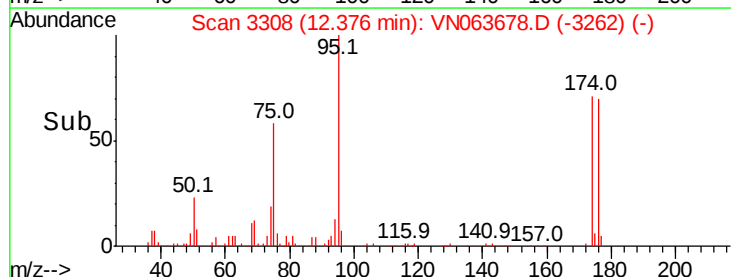
75 100

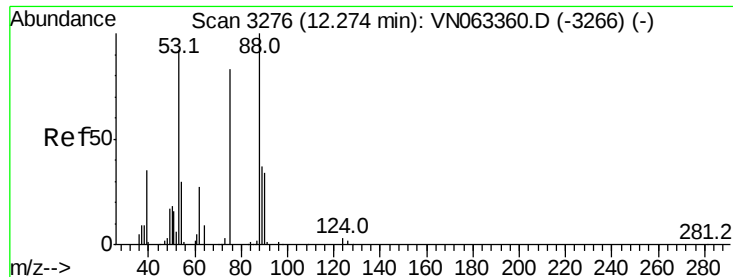
77 1.1 0.0 0.0#



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: 76.346 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921DL

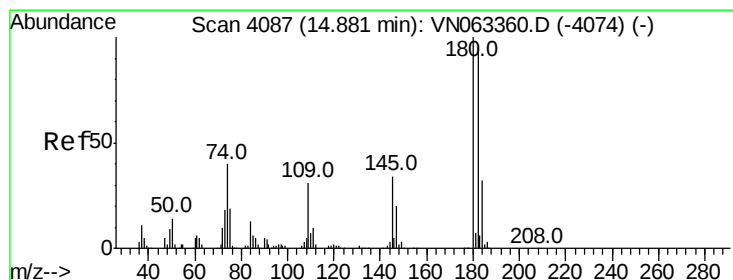
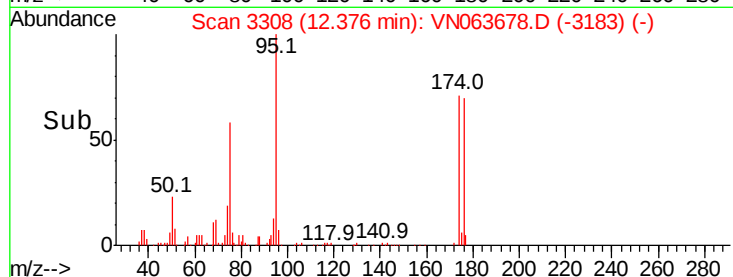
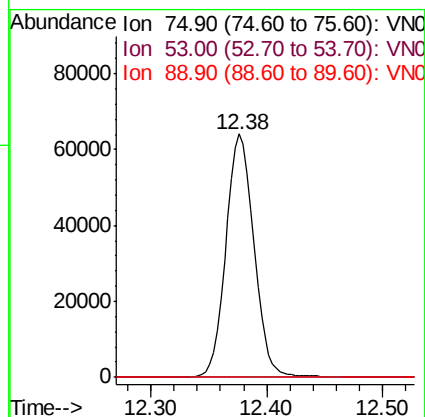
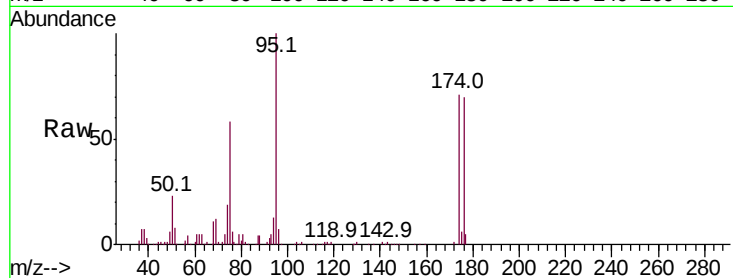
Tot Ion: 75 Resp: 107629

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



#93

1,2,4-Trichlorobenzene

Concen: 0.304 ug/l

RT: 14.89 min Scan# 4091

Delta R.T. 0.01 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

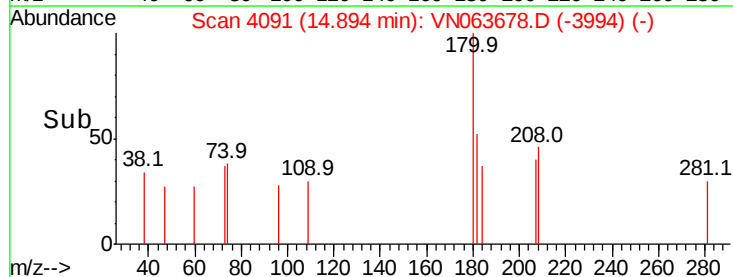
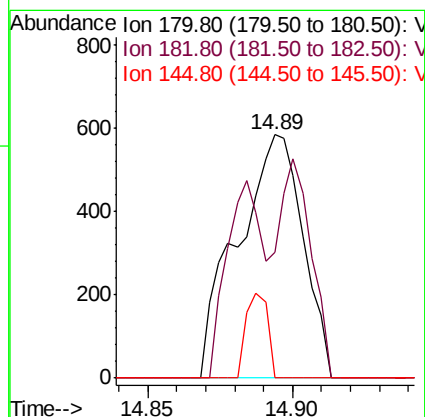
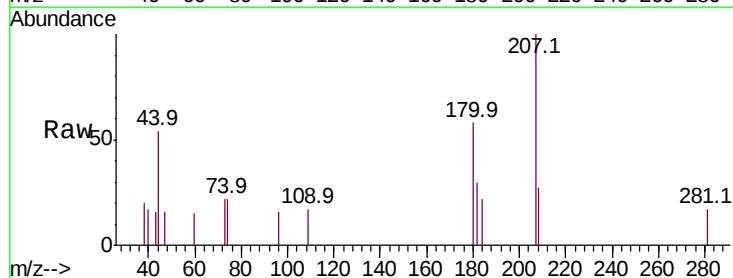
Tgt Ion: 180 Resp: 917

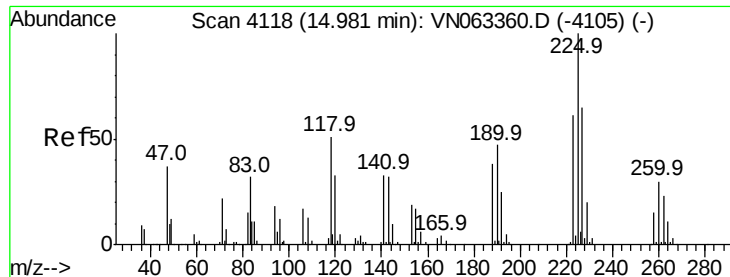
Ion Ratio Lower Upper

180 100

182 46.1 47.3 142.0#

145 0.0 16.6 49.7#





#94

Hexachlorobutadiene

Concen: 0.566 ug/l

RT: 14.99 min Scan# 4120

Delta R.T. 0.01 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

DUP05-20200921DL

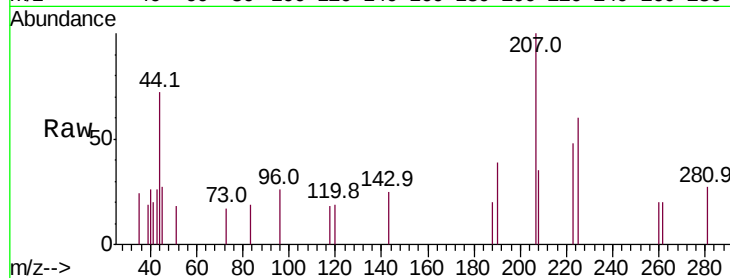
Tot Ion:225 Resp: 707

Ion Ratio Lower Upper

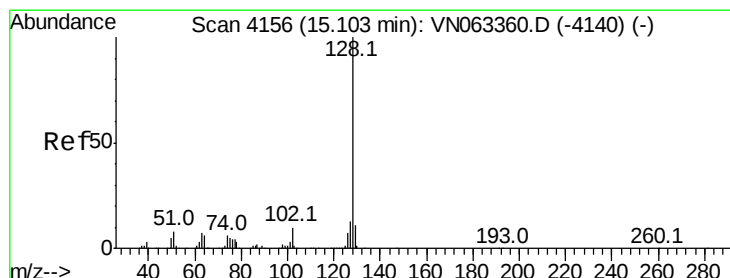
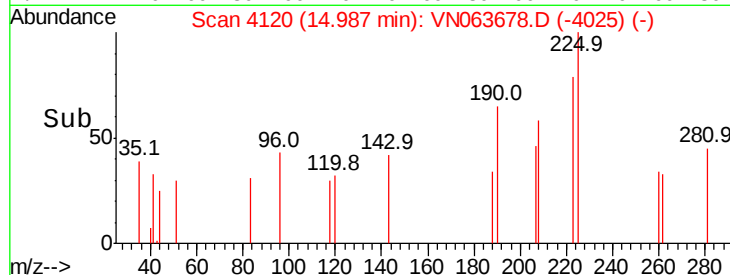
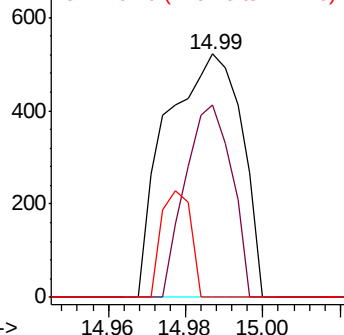
225 100

223 48.5 30.6 91.6

227 16.8 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: 0.307 ug/l

RT: 15.10 min Scan# 4156

Delta R.T. -0.00 min

Lab File: VN063678.D

Acq: 25 Sep 2020 15:07

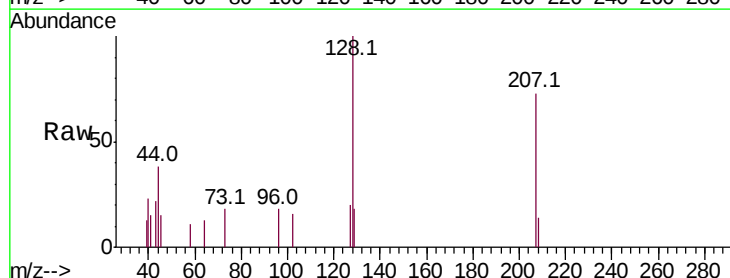
Tgt Ion:128 Resp: 3063

Ion Ratio Lower Upper

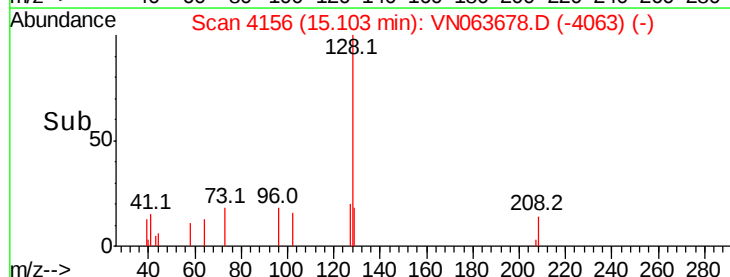
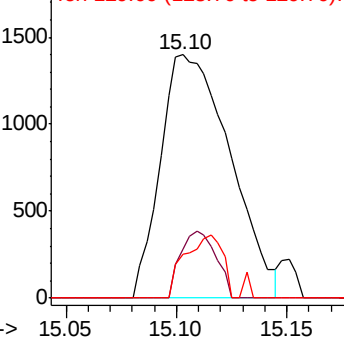
128 100

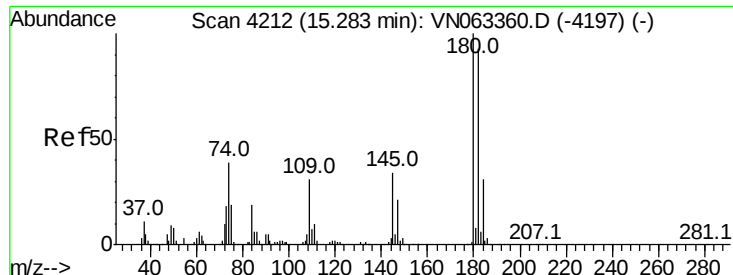
127 14.1 10.6 15.8

129 14.1 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

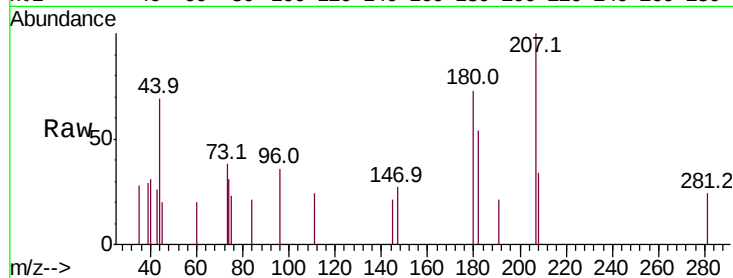




#96
 1,2,3-Trichlorobenzene
 Concen: 0.325 ug/l
 RT: 15.29 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN063678.D
 Acq: 25 Sep 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP05-20200921DL

Tot Ion:180 Resp: 949
 Ion Ratio Lower Upper
 180 100
 182 105.2 46.7 140.1
 145 10.9 16.8 50.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 800 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

