

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063510.D
 Acq On : 22 Sep 2020 2:06
 Operator : JC/MD
 Sample : L4082-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20200915

Quant Time: Sep 22 04:59:56 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	229654	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	421550	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	427047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182497	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	185837	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
35) Dibromofluoromethane	7.55	113	134555	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	
50) Toluene-d8	10.06	98	544878	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
62) 4-Bromofluorobenzene	12.38	95	217313	54.02	ug/l	0.00
Spiked Amount			Recovery	=	108.04%	

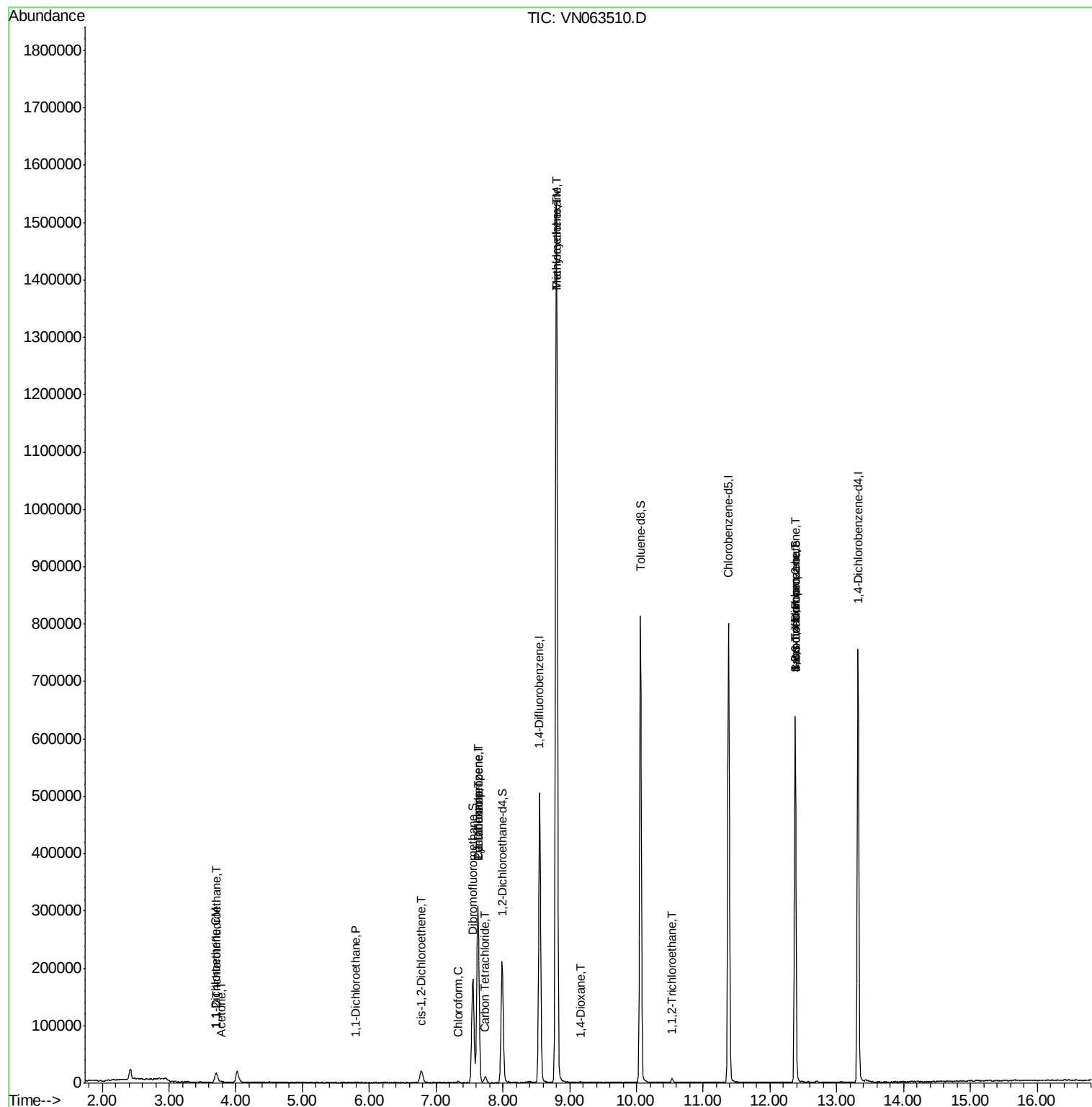
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) 1,1,2-Trichlorotrifluoroet	3.72	101	4916	1.921	ug/l	92
12) 1,1-Dichloroethene	3.70	96	5979	2.307	ug/l	79
16) Acetone	3.77	43	1547	1.231	ug/l	93
24) 1,1-Dichloroethane	5.80	63	1222	0.214	ug/l #	84
27) cis-1,2-Dichloroethene	6.78	96	2358	0.726	ug/l	76
30) Chloroform	7.33	83	2973	0.519	ug/l	86
31) Cyclohexane	7.62	56	6480	1.200	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	21072	4.692	ug/l #	52
38) Carbon Tetrachloride	7.73	117	7351	1.603	ug/l	88
39) Methylcyclohexane	8.80	83	7200	1.477	ug/l #	1
44) Trichloroethene	8.80	130	519194	166.971	ug/l	100
49) 1,4-Dioxane	9.17	88	64	1.152	ug/l #	36
55) 1,1,2-Trichloroethane	10.54	97	2101	0.686	ug/l	91
71) Bromoform	12.38	173	1244	0.503	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	119404	26.434	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119404	72.472	ug/l #	7

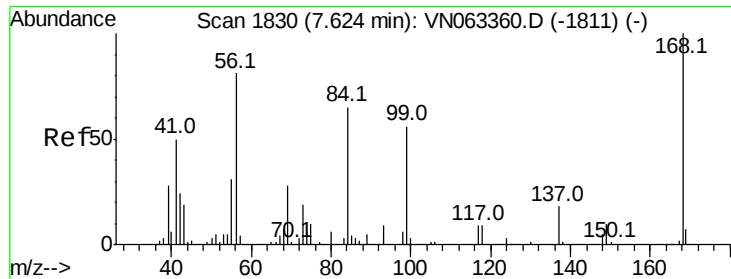
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

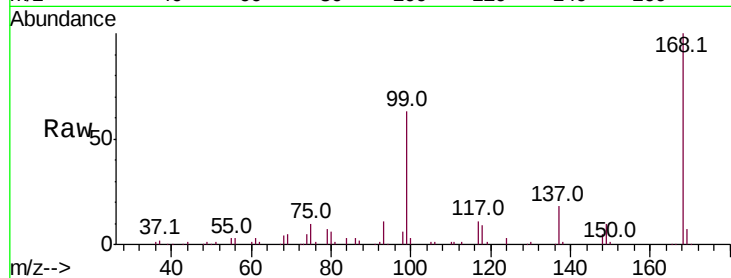
RE139D2-20200915

Tot Ion:168 Resp: 229654

Ion Ratio Lower Upper

168 100

99 63.1 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

100000

80000

60000

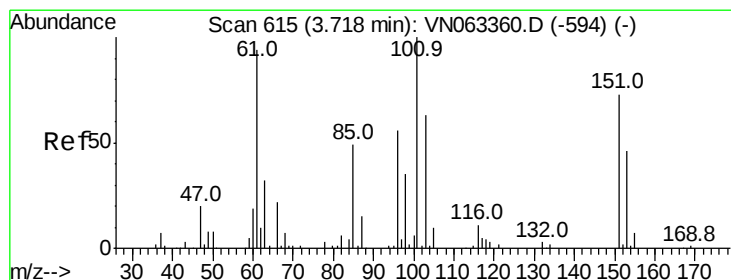
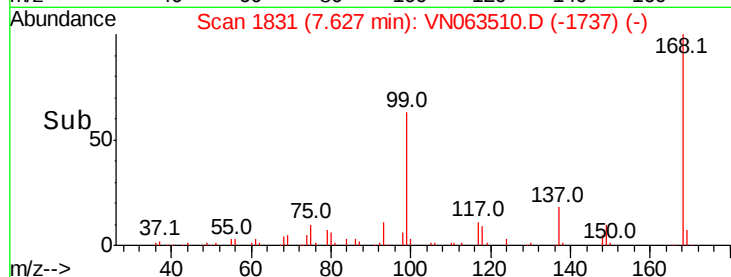
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.921 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

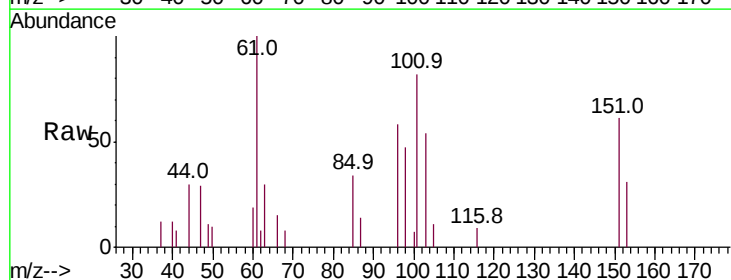
Tgt Ion:101 Resp: 4916

Ion Ratio Lower Upper

101 100

85 53.7 37.7 56.5

151 77.7 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

3.72

2000

1500

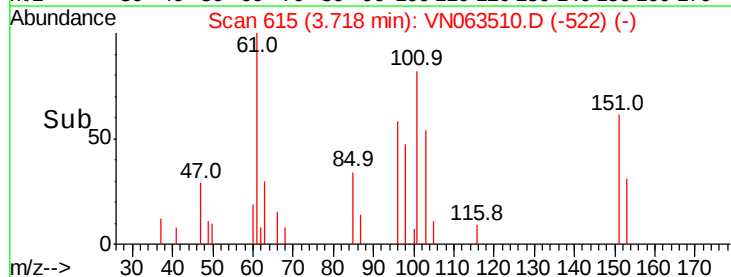
1000

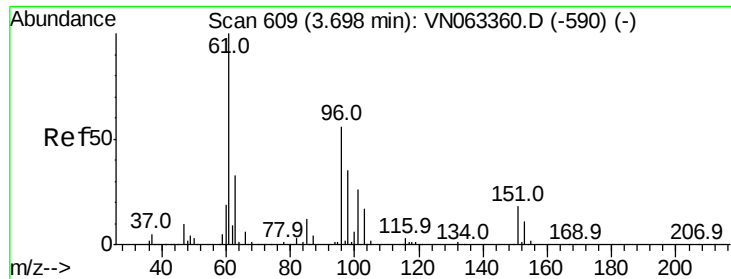
500

0

Time-->

3.65 3.70 3.75 3.80

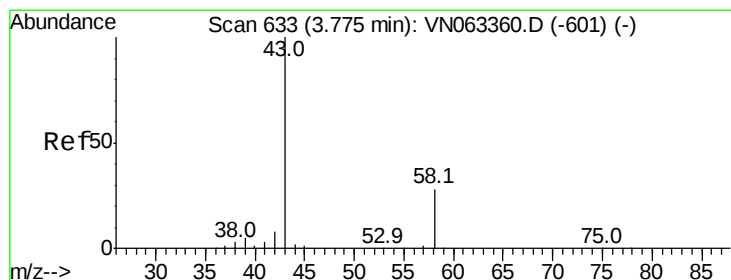
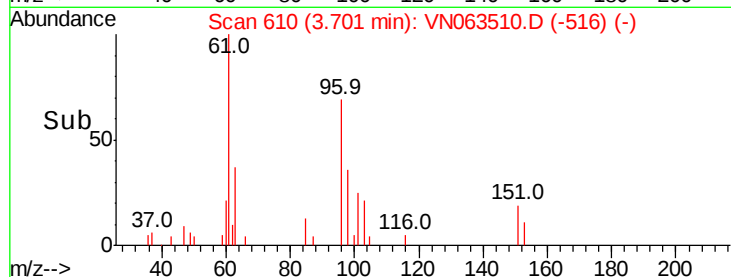
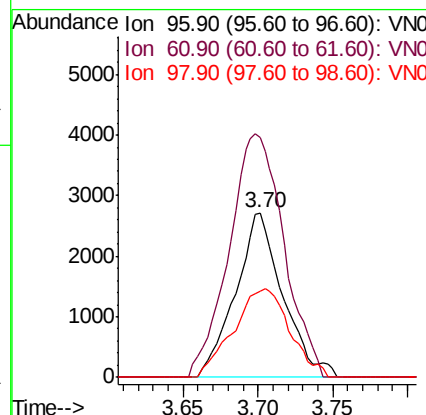
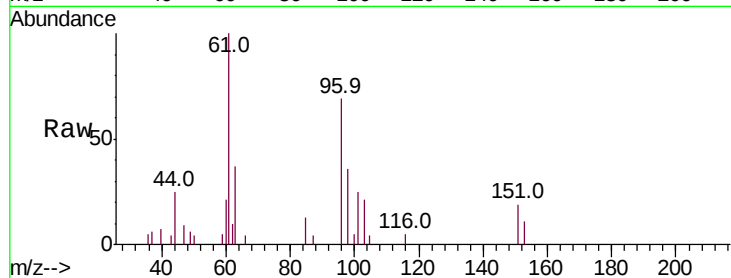




#12
 1,1-Dichloroethene
 Concen: 2.307 ug/l
 RT: 3.70 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN063510.D
 Acq: 22 Sep 2020 2:06

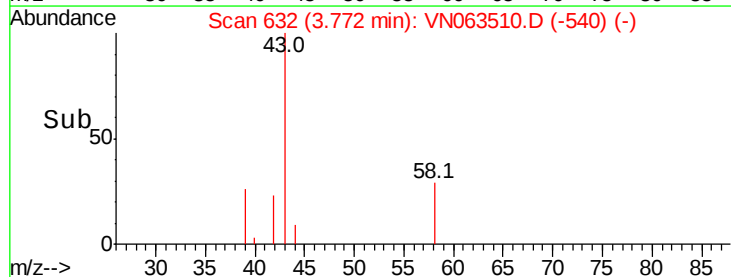
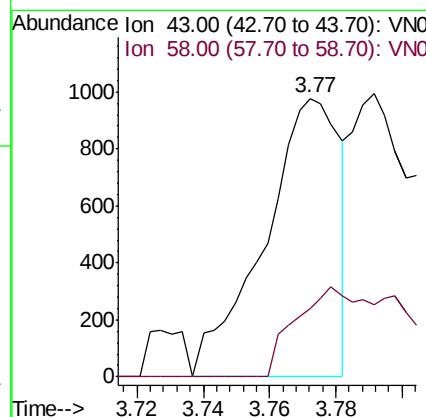
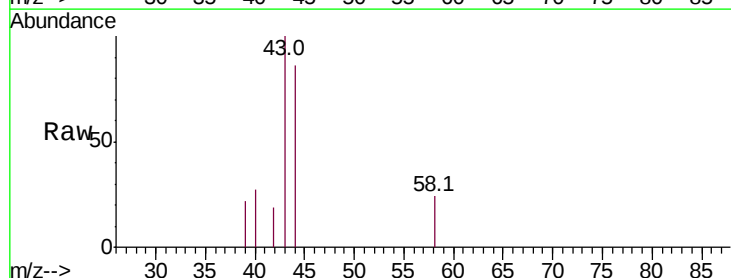
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20200915

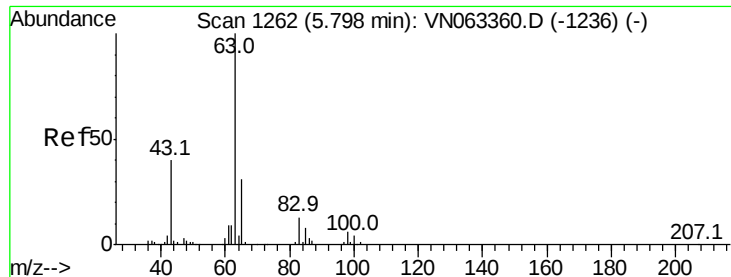
Tot Ion	96	Resp	5979
Ion	Ratio	Lower	Upper
96	100		
61	145.9	143.4	215.2
98	52.3	50.6	76.0



#16
 Acetone
 Concen: 1.231 ug/l
 RT: 3.77 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: VN063510.D
 Acq: 22 Sep 2020 2:06

Tgt Ion	43	Resp	1547
Ion	Ratio	Lower	Upper
43	100		
58	24.5	22.3	33.5





#24

1,1-Dichloroethane

Concen: 0.214 ug/l

RT: 5.80 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200915

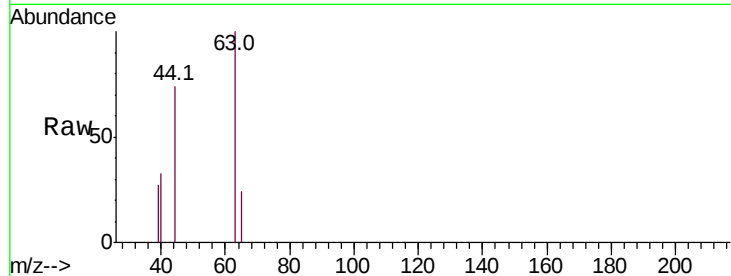
Tot Ion: 63 Resp: 1222

Ion Ratio Lower Upper

63 100

98 0.0 2.9 8.8#

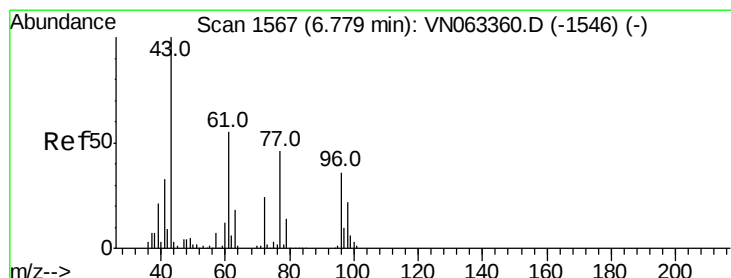
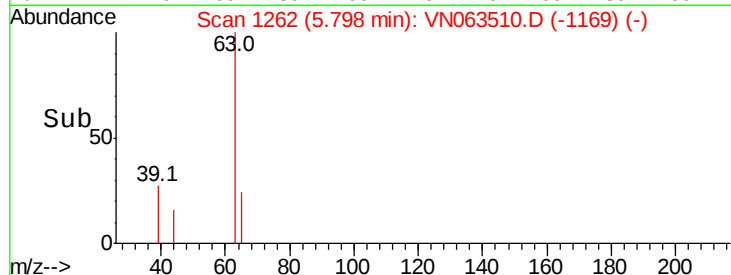
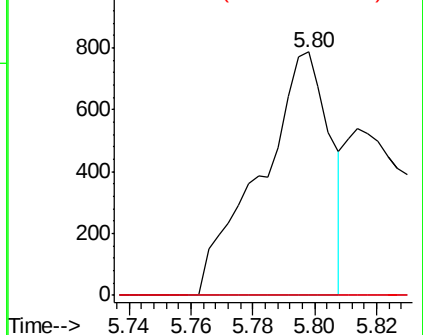
100 0.0 2.1 6.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



#27

cis-1,2-Dichloroethene

Concen: 0.726 ug/l

RT: 6.78 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

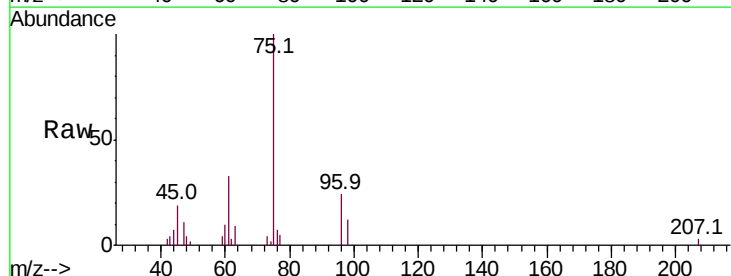
Tgt Ion: 96 Resp: 2358

Ion Ratio Lower Upper

96 100

61 174.3 0.0 319.6

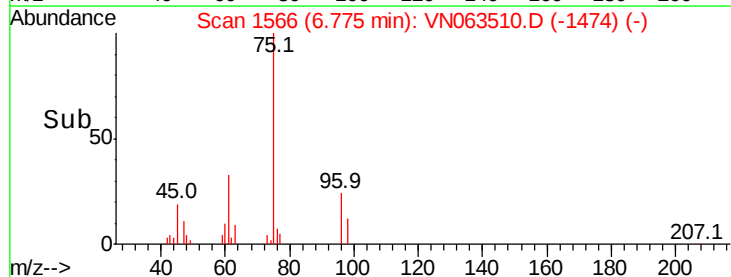
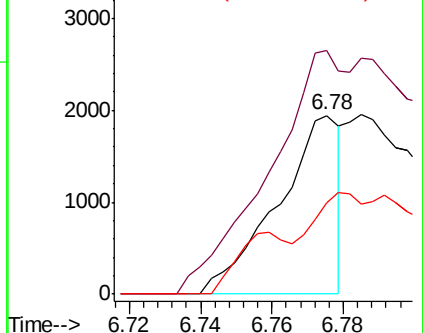
98 18.7 0.0 127.8

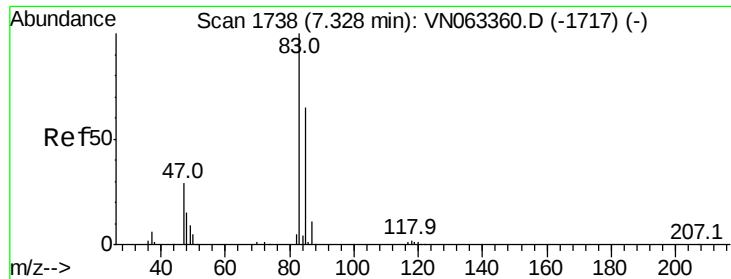


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

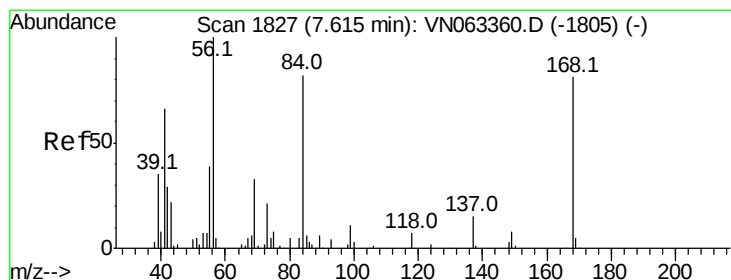
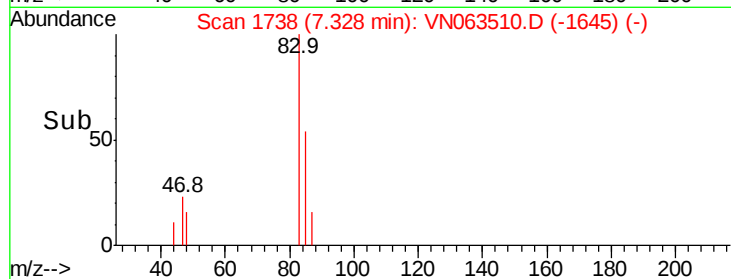
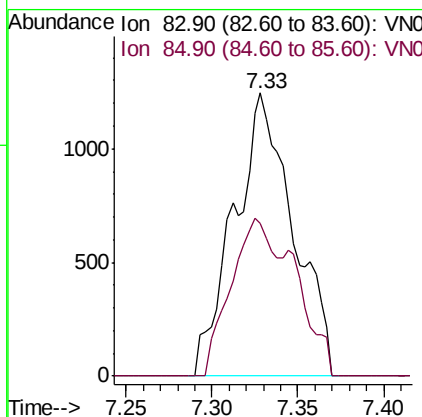
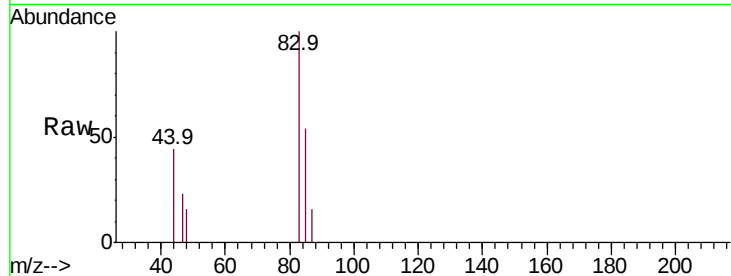




#30
Chloroform
Concen: 0.519 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN063510.D
Acq: 22 Sep 2020 2:06

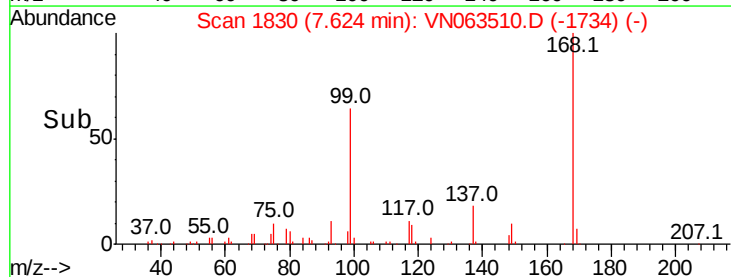
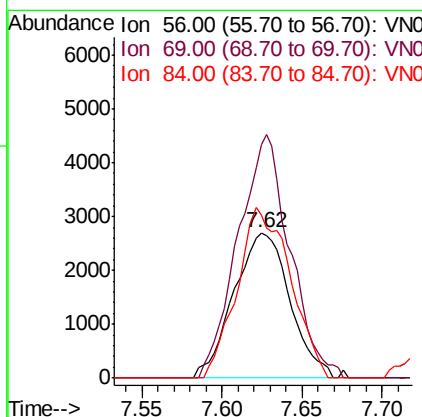
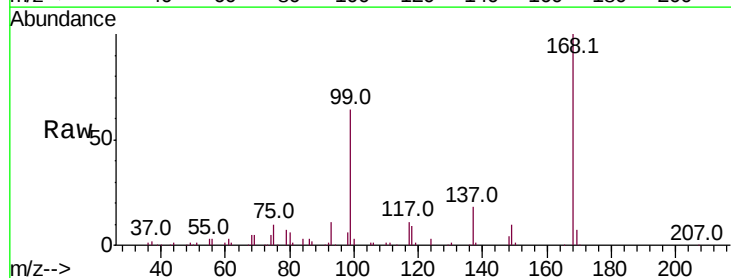
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20200915

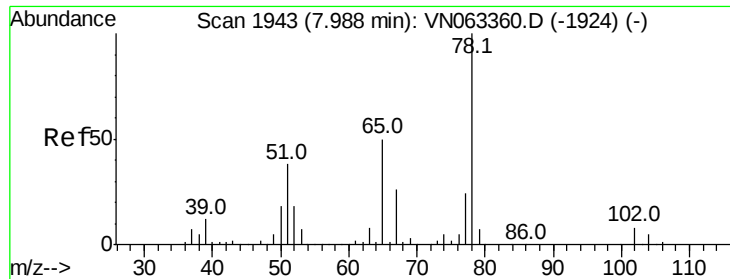
Tot Ion: 83 Resp: 2973
Ion Ratio Lower Upper
83 100
85 54.1 52.1 78.1



#31
Cyclohexane
Concen: 1.200 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN063510.D
Acq: 22 Sep 2020 2:06

Tgt Ion: 56 Resp: 6480
Ion Ratio Lower Upper
56 100
69 160.3 26.1 39.1#
84 112.1 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 47.537 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

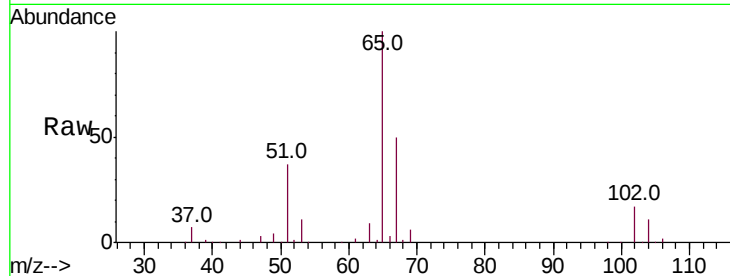
RE139D2-20200915

Tot Ion: 65 Resp: 185837

Ion Ratio Lower Upper

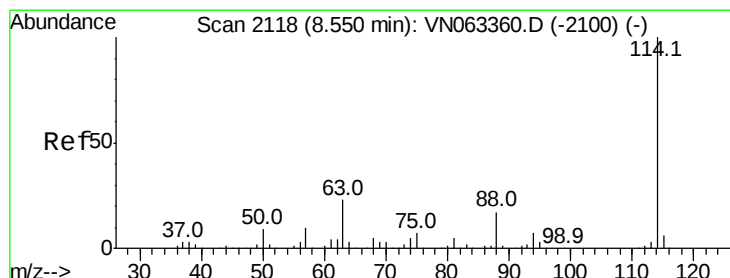
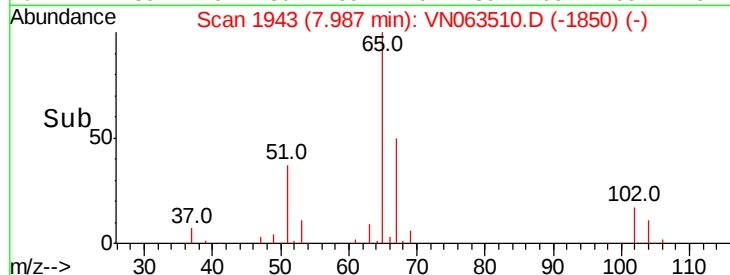
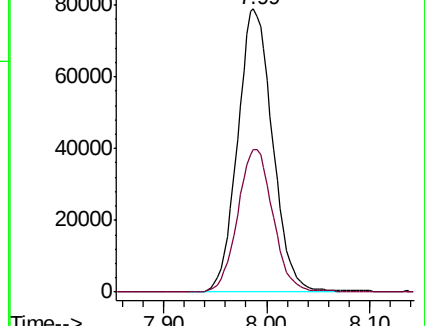
65 100

67 50.6 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# 2118

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

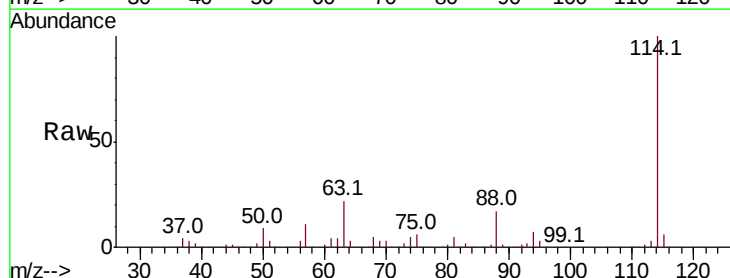
Tgt Ion: 114 Resp: 421550

Ion Ratio Lower Upper

114 100

63 22.4 0.0 46.4

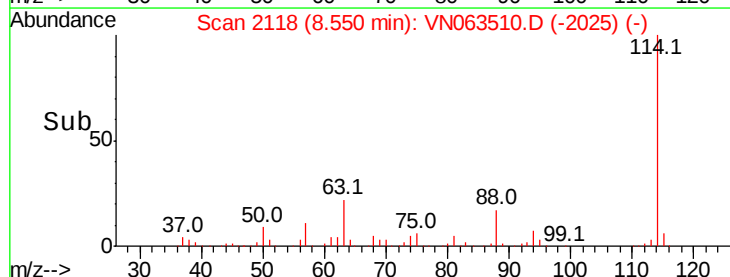
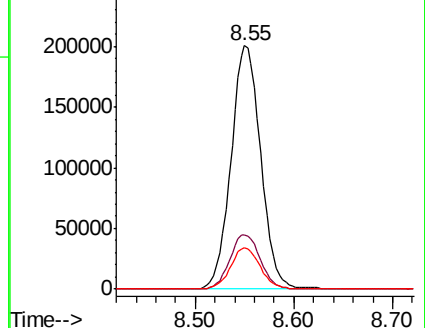
88 17.2 0.0 33.2

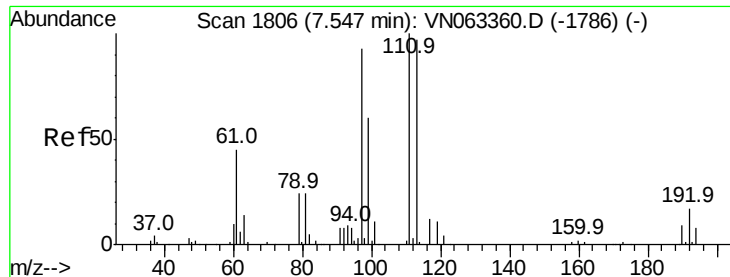


Abundance Ion 113.90 (113.60 to 114.60): VN063360.D (-2100) (-)

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

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

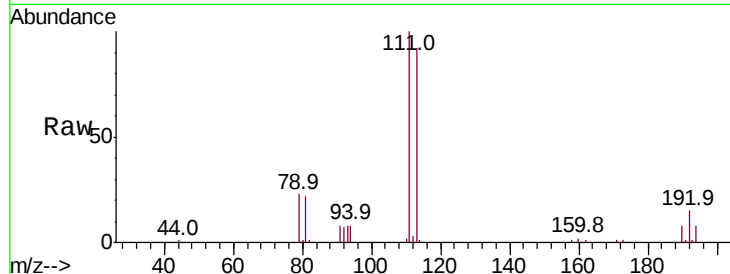




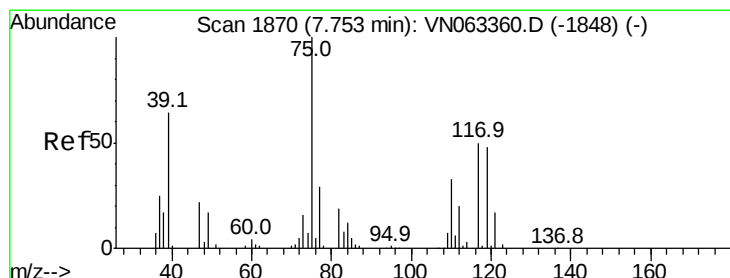
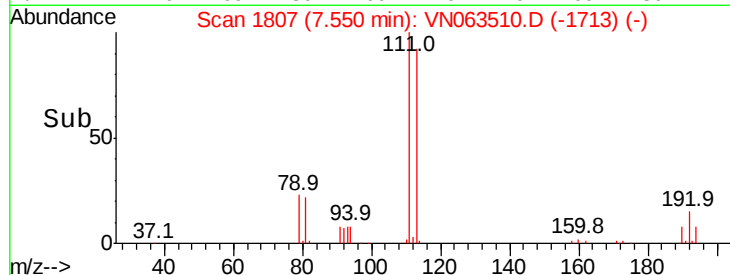
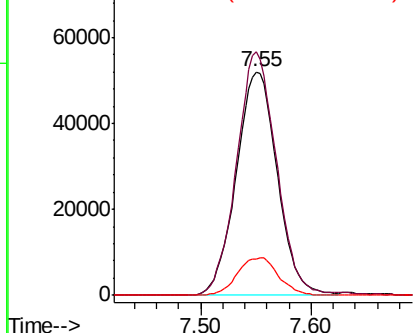
#35
 Dibromofluoromethane
 Concen: 46.107 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063510.D
 Acq: 22 Sep 2020 2:06

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Tot Ion	Ratio	Lower	Upper
113	100		
111	106.1	82.9	124.3
192	16.8	13.9	20.9

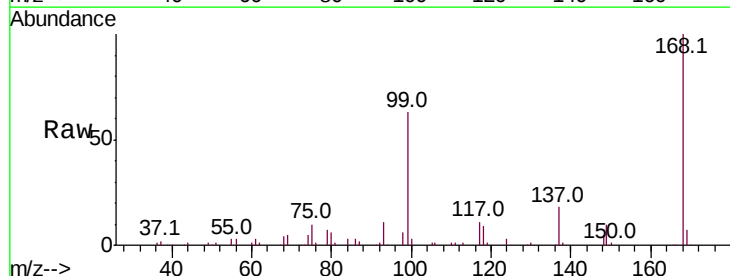


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

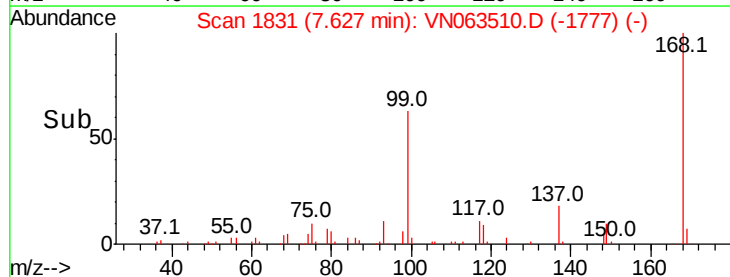
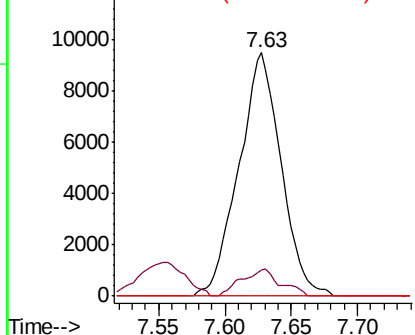


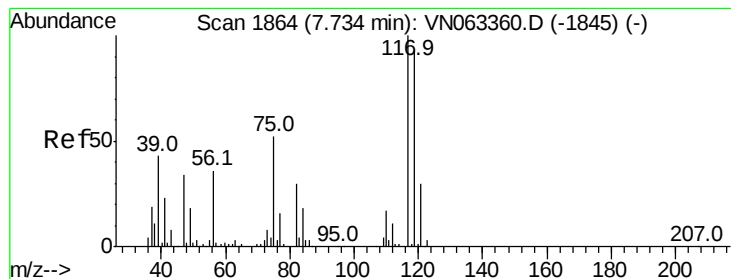
#36
 1,1-Dichloropropene
 Concen: 4.692 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063510.D
 Acq: 22 Sep 2020 2:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	16.5	49.5#
77	0.0	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 1.603 ug/l

RT: 7.73 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200915

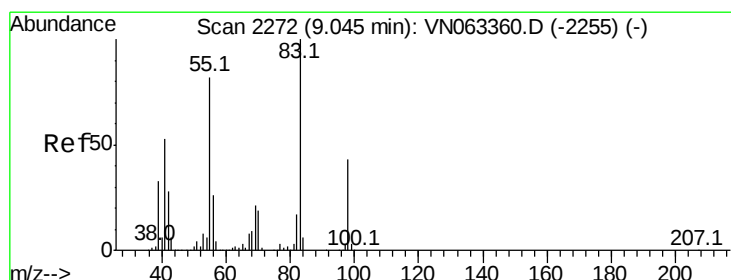
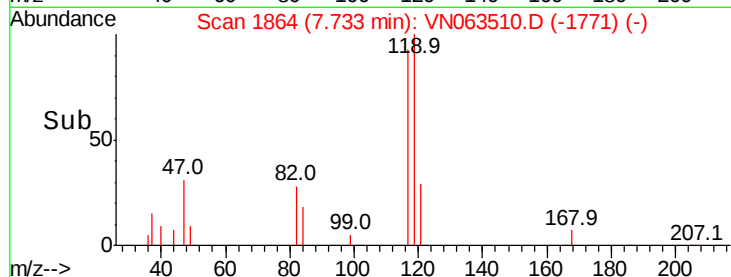
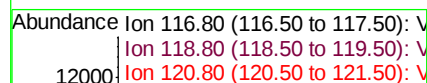
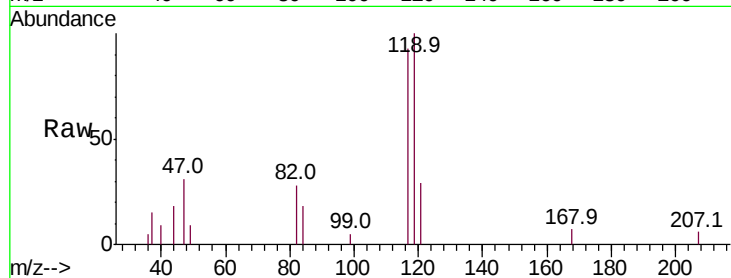
Tot Ion:117 Resp: 7351

Ion Ratio Lower Upper

117 100

119 107.8 74.5 111.7

121 31.5 24.1 36.1



#39

Methylcyclohexane

Concen: 1.477 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

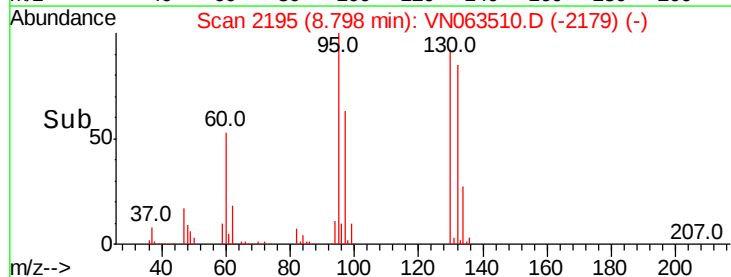
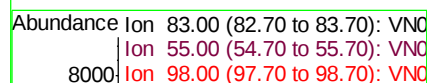
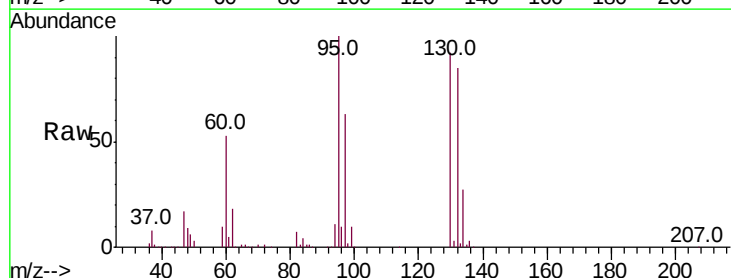
Tgt Ion: 83 Resp: 7200

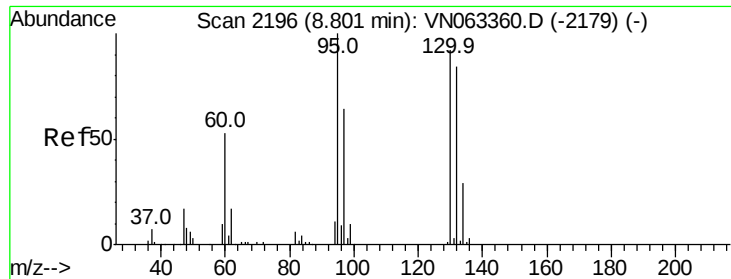
Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

98 175.9 34.2 51.4#





#44

Trichloroethene

Concen: 166.971 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

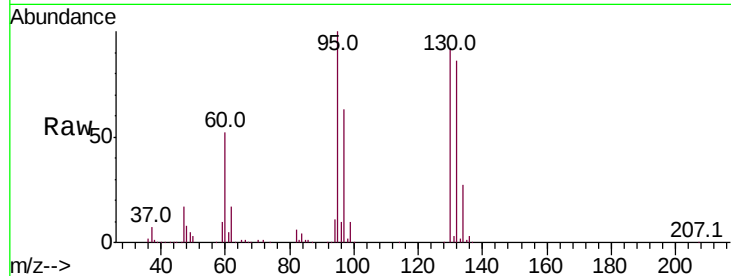
RE139D2-20200915

Tot Ion:130 Resp: 519194

Ion Ratio Lower Upper

130 100

95 108.3 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8/80

250000

200000

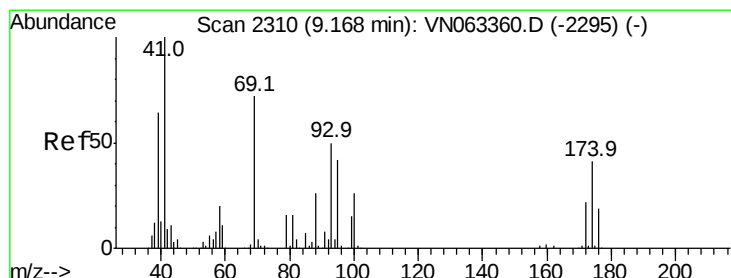
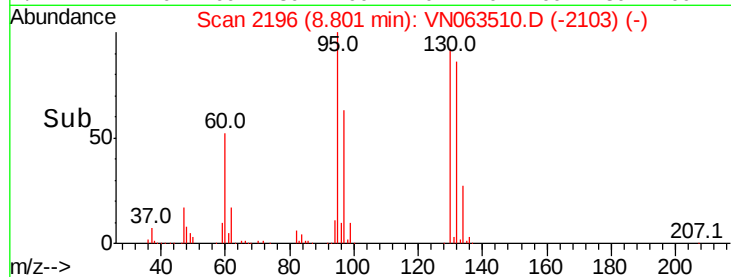
150000

100000

50000

0

Time--> 8.70 8.80 8.90



#49

1,4-Dioxane

Concen: 1.152 ug/l

RT: 9.17 min Scan# 2312

Delta R.T. 0.01 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

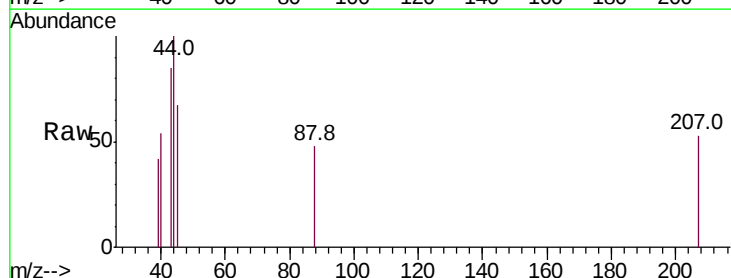
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 115.6 32.6 49.0#

58 46.9 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

400

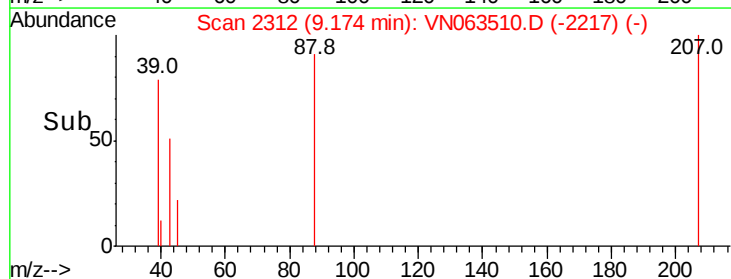
300

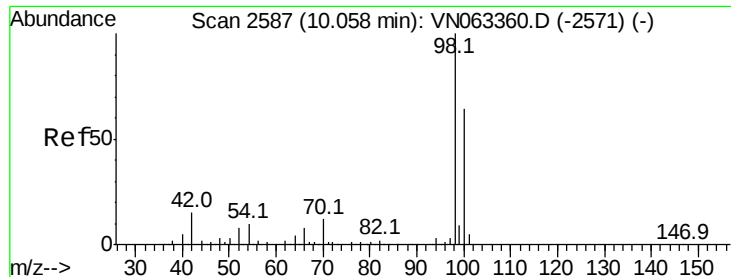
200

100

0

Time--> 9.16 9.17 9.18 9.18





#50

Toluene-d8

Concen: 49.655 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

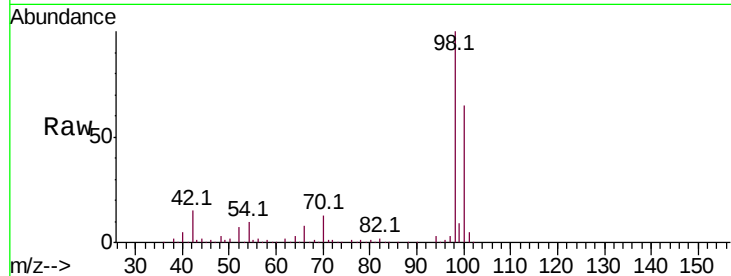
RE139D2-20200915

Tot Ion: 98 Resp: 544878

Ion Ratio Lower Upper

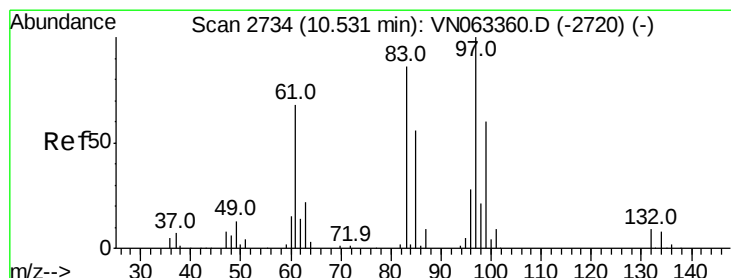
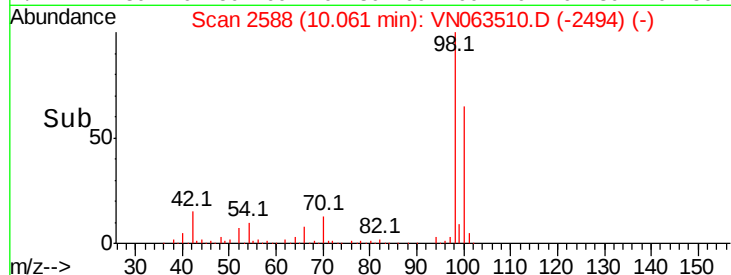
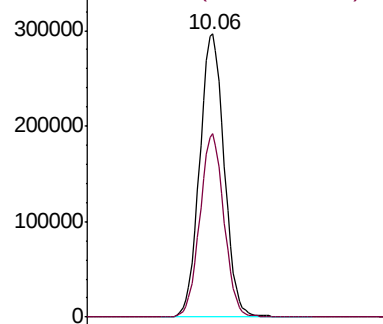
98 100

100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#55

1,1,2-Trichloroethane

Concen: 0.686 ug/l

RT: 10.54 min Scan# 2737

Delta R.T. 0.01 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Tgt Ion: 97 Resp: 2101

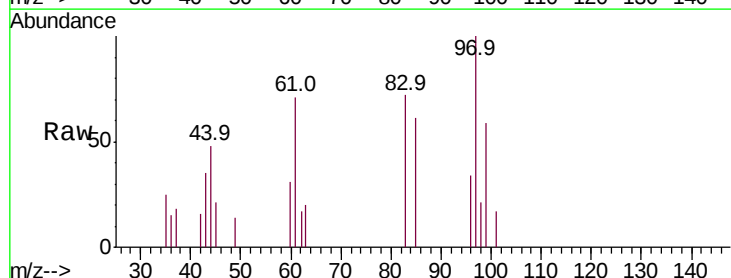
Ion Ratio Lower Upper

97 100

83 72.2 68.9 103.3

85 60.7 44.8 67.2

99 59.0 47.8 71.8

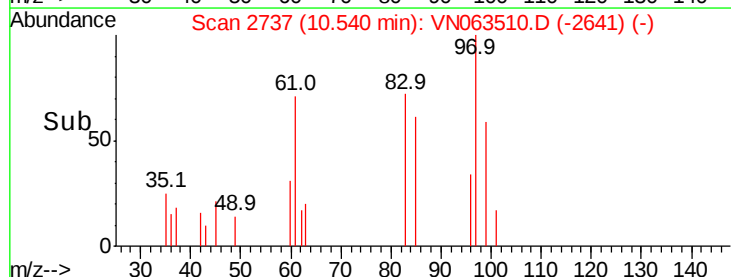
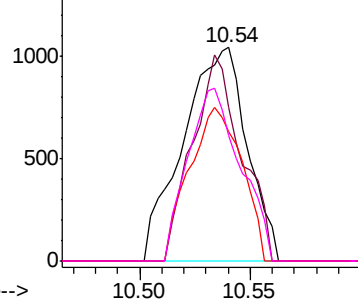


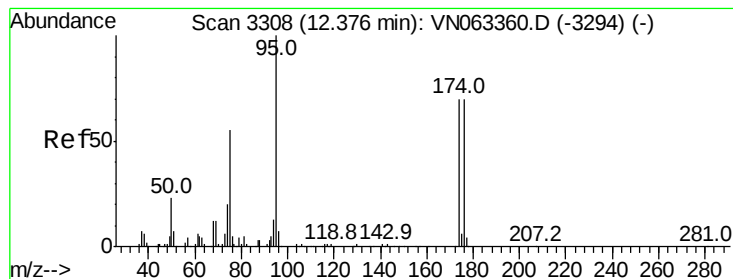
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#62

4-Bromofluorobenzene

Concen: 54.023 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200915

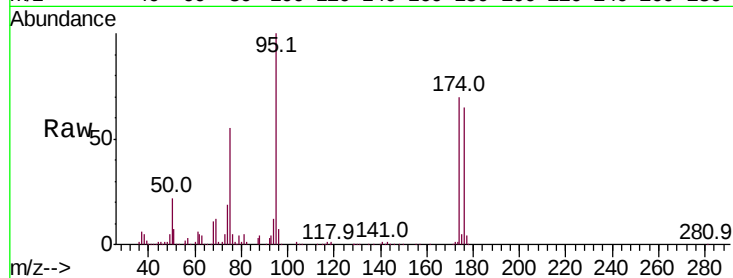
Tot Ion: 95 Resp: 217313

Ion Ratio Lower Upper

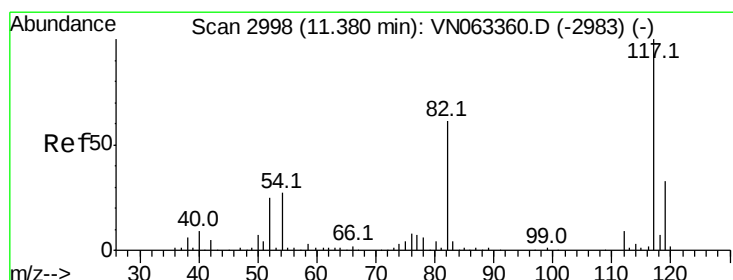
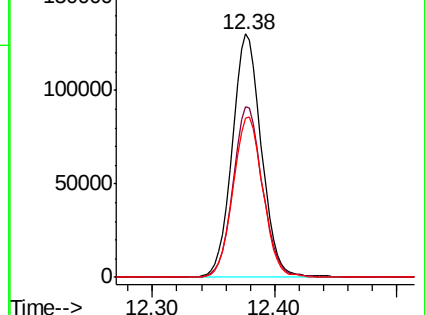
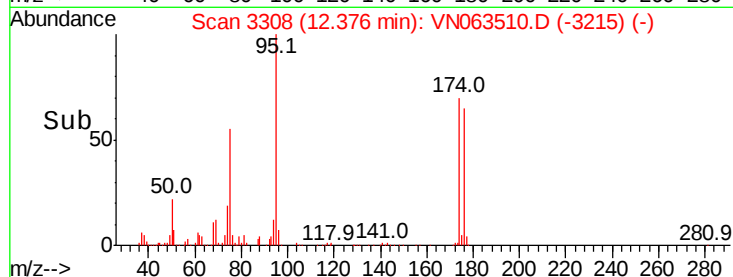
95 100

174 71.0 0.0 140.8

176 67.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN063510.D (-3215) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

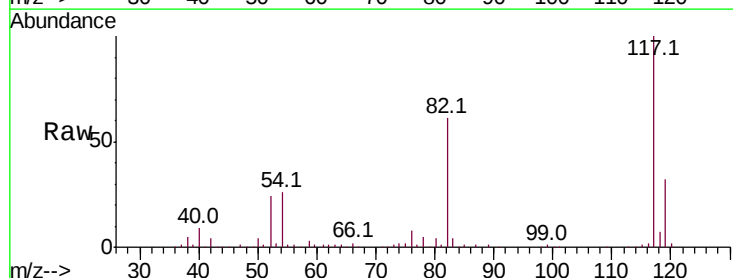
Tgt Ion: 117 Resp: 427047

Ion Ratio Lower Upper

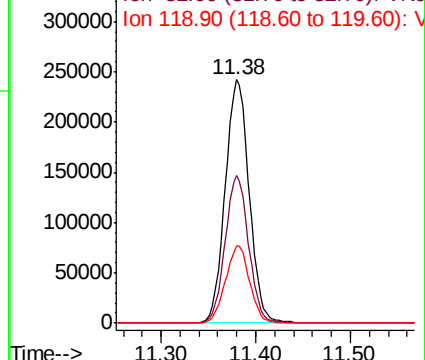
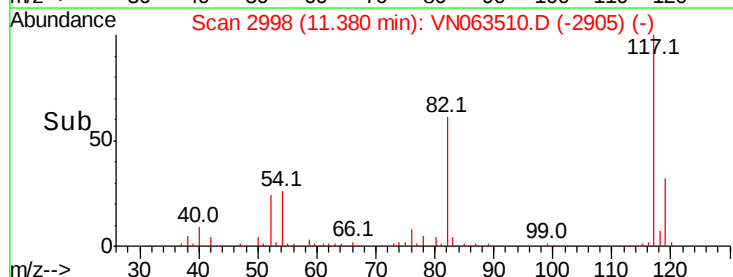
117 100

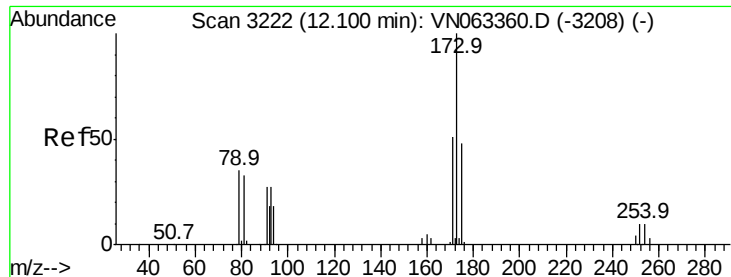
82 60.8 49.2 73.8

119 31.8 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN063510.D (-2905) (-)





#71

Bromoform

Concen: 0.503 ug/l

RT: 12.38 min Scan# 3310

Delta R.T. 0.28 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20200915

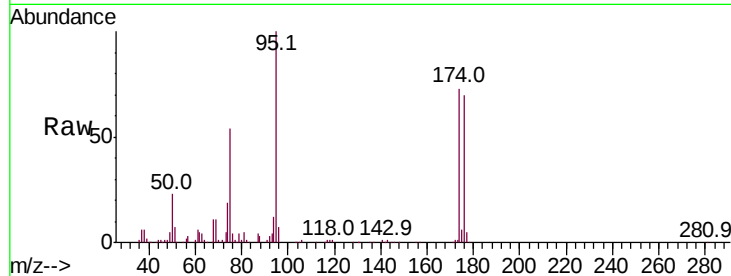
Tot Ion:173 Resp: 1244

Ion Ratio Lower Upper

173 100

175 778.3 24.0 72.0#

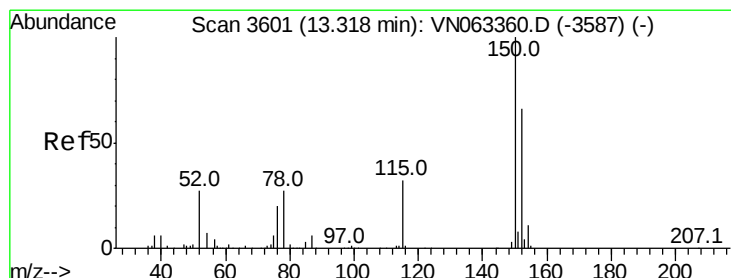
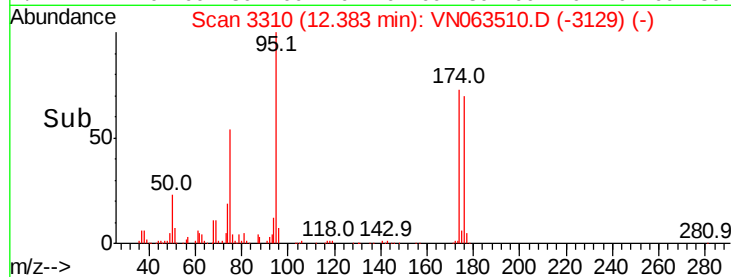
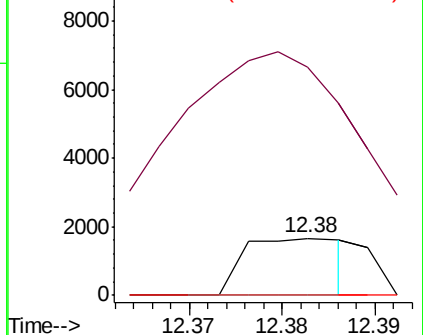
254 0.0 0.0 0.0



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# 3601

Delta R.T. -0.00 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

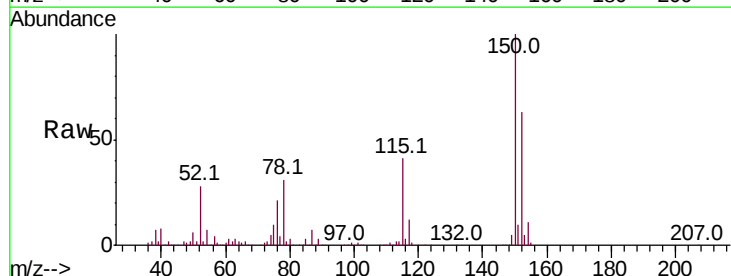
Tgt Ion:152 Resp: 182497

Ion Ratio Lower Upper

152 100

115 63.8 32.2 96.6

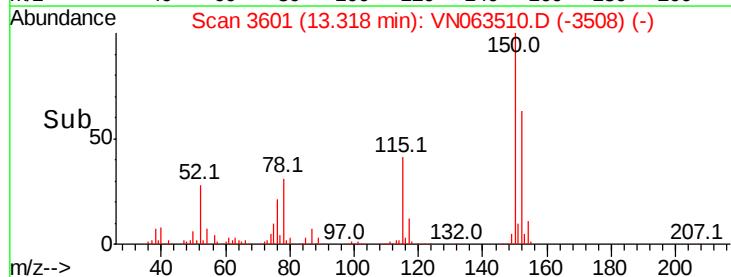
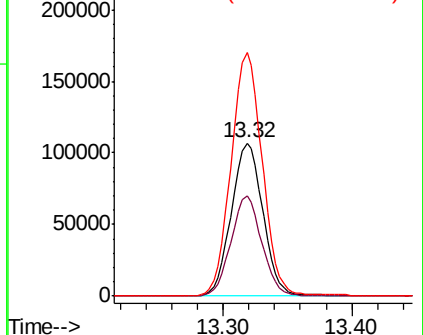
150 156.9 0.0 343.4

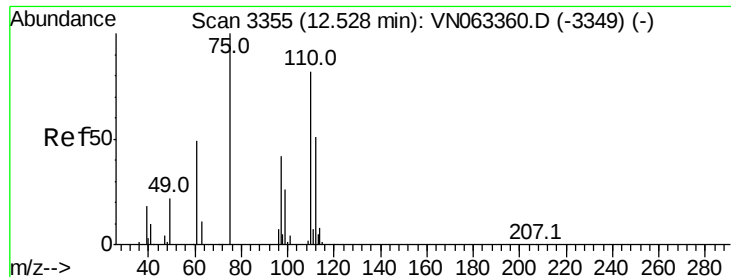


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.434 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Instrument :

MSVOA_N

ClientSampleId :

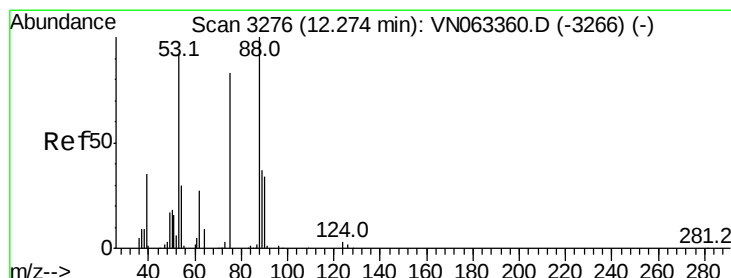
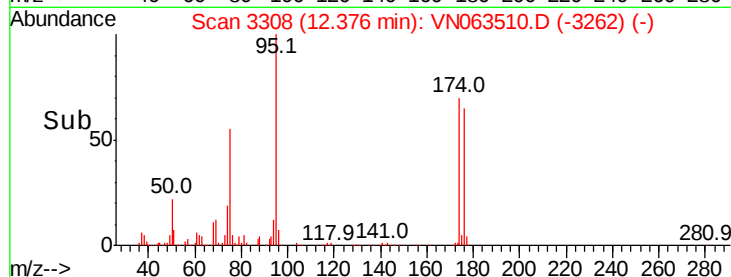
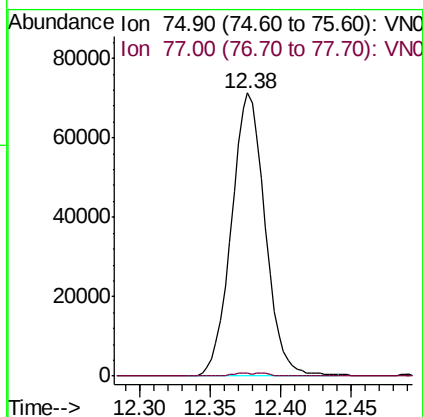
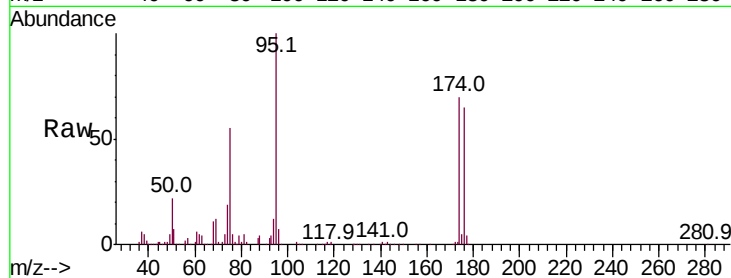
RE139D2-20200915

Tot Ion: 75 Resp: 119404

Ion Ratio Lower Upper

75 100

77 0.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.472 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063510.D

Acq: 22 Sep 2020 2:06

Tgt Ion: 75 Resp: 119404

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

