

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063513.D
 Acq On : 22 Sep 2020 3:18
 Operator : JC/MD
 Sample : L4082-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D1-20200915

Quant Time: Sep 22 05:00:20 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	223561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	419991	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	426248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179210	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	183497	48.22	ug/l	0.00
Spiked Amount 50.000			Recovery =	96.44%		
35) Dibromofluoromethane	7.55	113	133967	46.08	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.16%		
50) Toluene-d8	10.06	98	536046	49.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.06%		
62) 4-Bromofluorobenzene	12.38	95	209639	52.31	ug/l	0.00
Spiked Amount 50.000			Recovery =	104.62%		

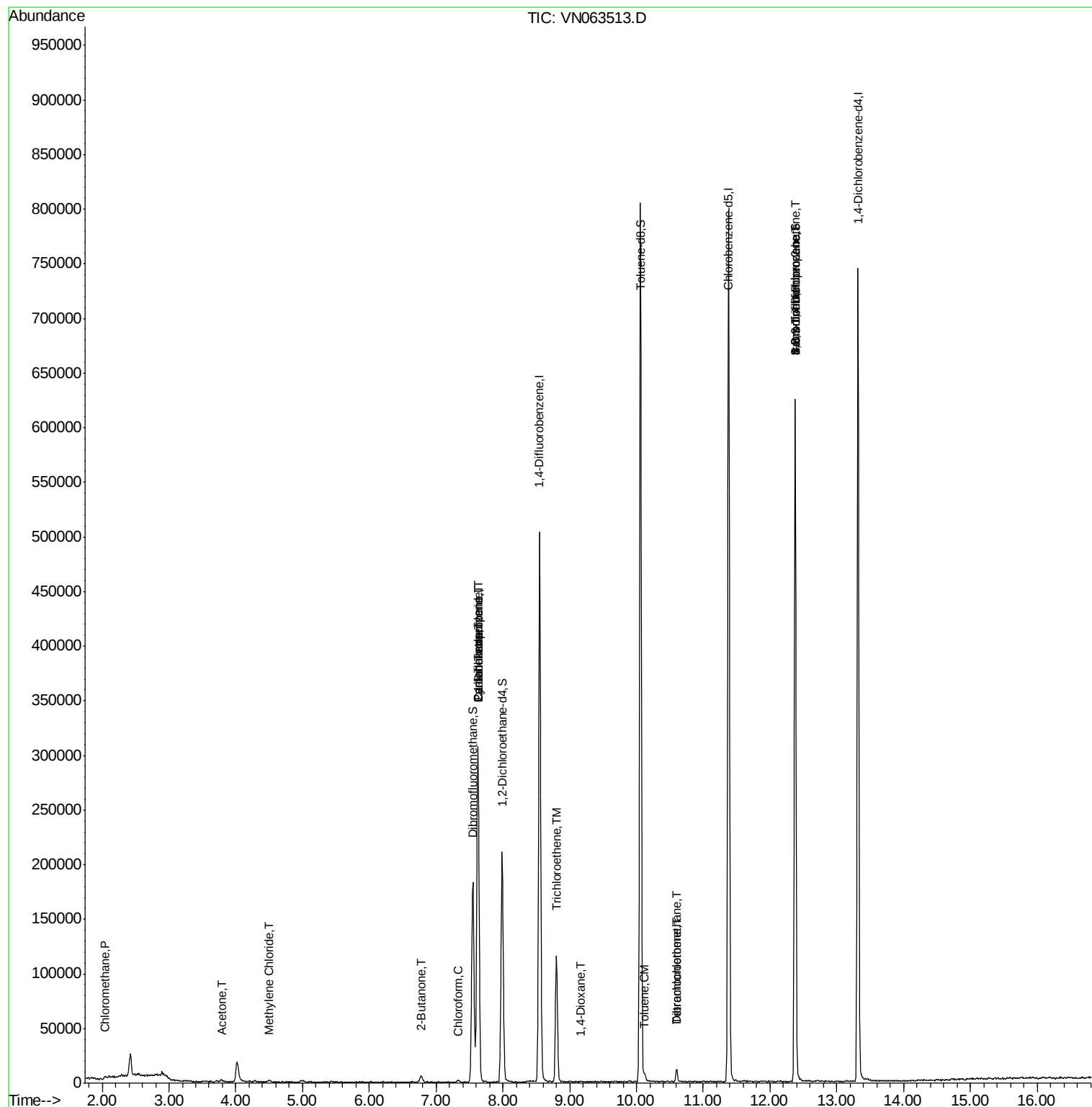
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	943	0.281	ug/l #	88
16) Acetone	3.79	43	1641	1.342	ug/l	98
20) Methylene Chloride	4.50	84	754	0.243	ug/l #	56
25) 2-Butanone	6.77	43	466	0.248	ug/l #	51
30) Chloroform	7.33	83	1841	0.330	ug/l	99
31) Cyclohexane	7.62	56	6232	1.186	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	20992	4.692	ug/l #	48
38) Carbon Tetrachloride	7.63	117	25720	5.631	ug/l #	16
44) Trichloroethene	8.80	130	37842	12.215	ug/l	95
49) 1,4-Dioxane	9.16	88	96	1.734	ug/l #	1
52) Toluene	10.12	92	1969	0.256	ug/l	90
60) Dibromochloromethane	10.60	129	2753	0.799	ug/l #	10
64) Tetrachloroethene	10.61	164	2470	0.851	ug/l #	81
71) Bromoform	12.38	173	1119	0.453	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	119643	26.973	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	119643	73.949	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: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

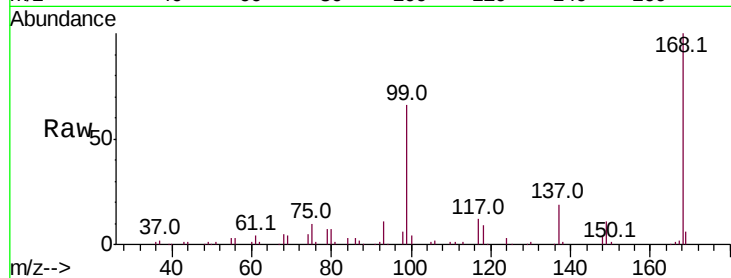
RE134D1-20200915

Tot Ion:168 Resp: 223561

Ion Ratio Lower Upper

168 100

99 65.9 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

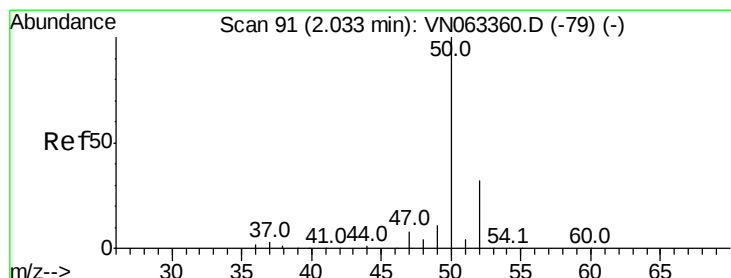
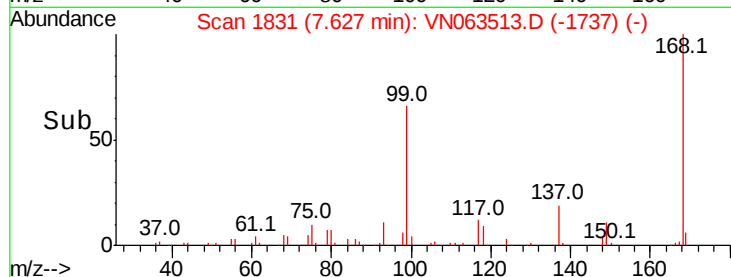
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.281 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063513.D

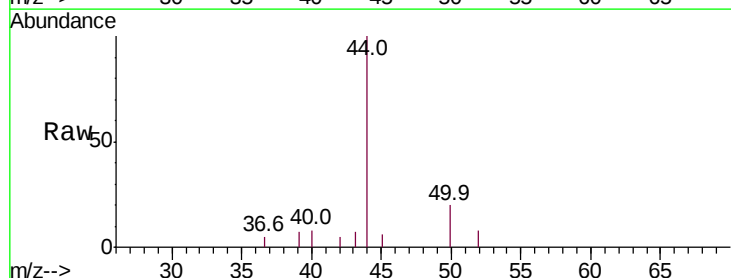
Acq: 22 Sep 2020 3:18

Tgt Ion: 50 Resp: 943

Ion Ratio Lower Upper

50 100

52 39.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

800

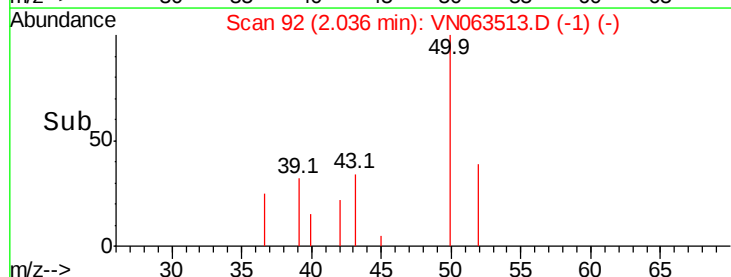
600

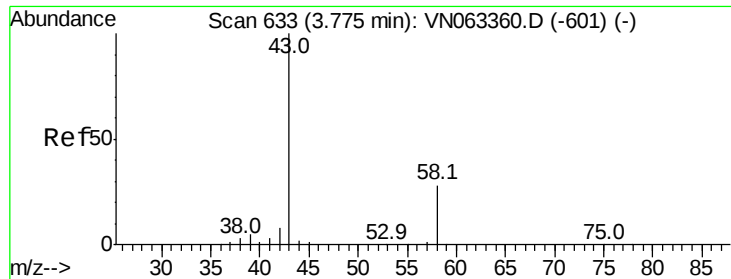
400

200

0

Time--> 2.00 2.02 2.04 2.06





#16

Acetone

Concen: 1.342 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

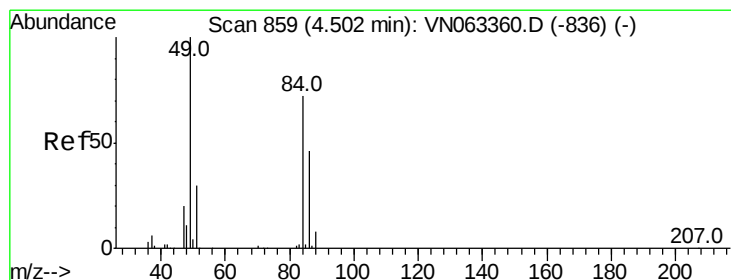
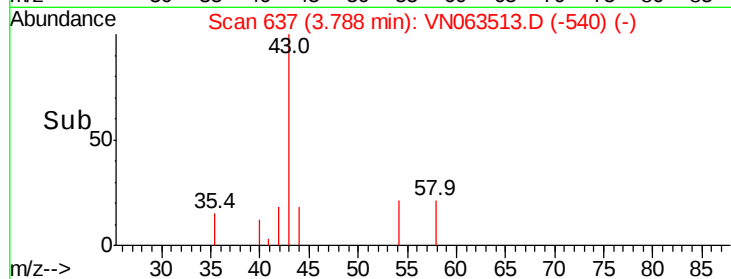
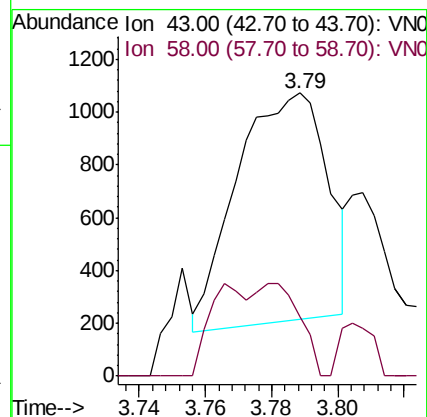
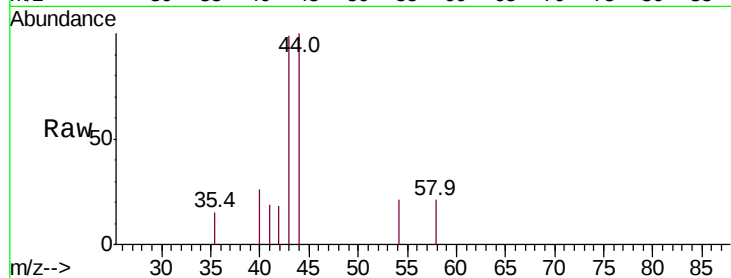
RE134D1-20200915

Tot Ion: 43 Resp: 1641

Ion Ratio Lower Upper

43 100

58 26.8 22.3 33.5



#20

Methylene Chloride

Concen: 0.243 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.01 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Tgt Ion: 84 Resp: 754

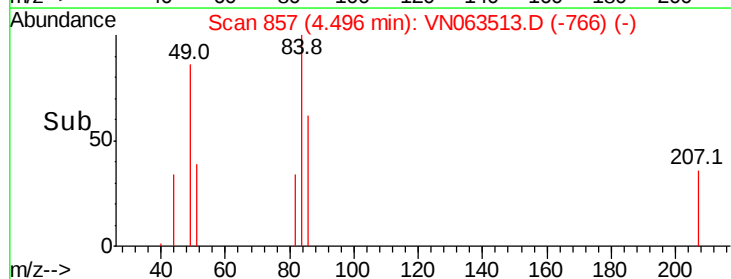
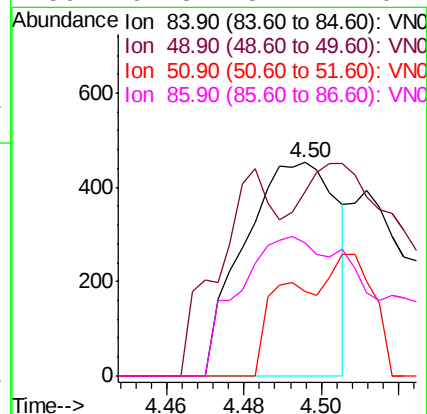
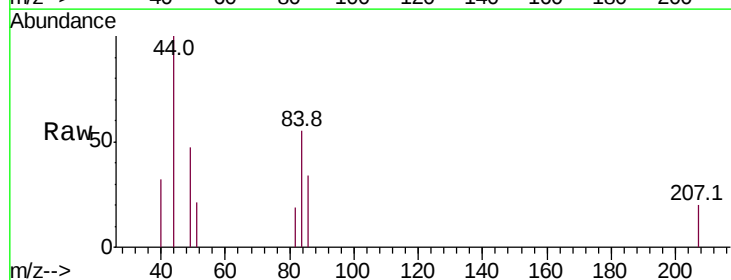
Ion Ratio Lower Upper

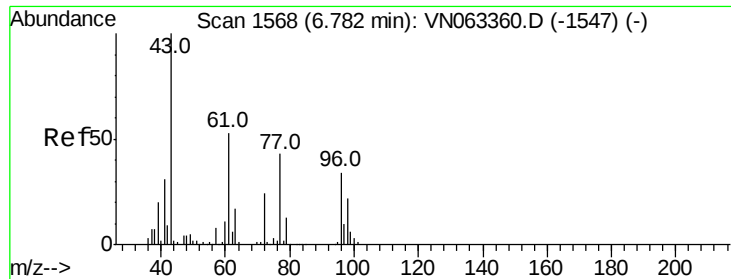
84 100

49 47.0 110.7 166.1#

51 39.3 32.9 49.3

86 62.3 51.1 76.7

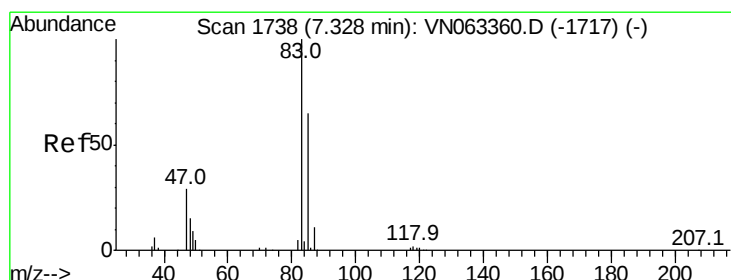
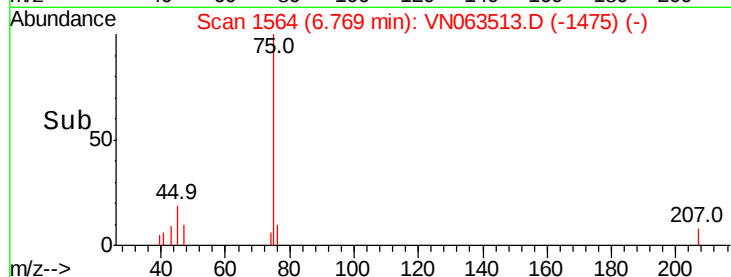
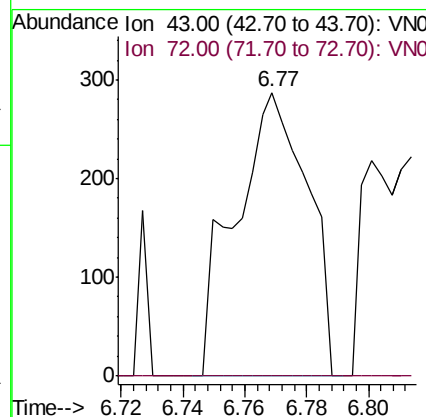
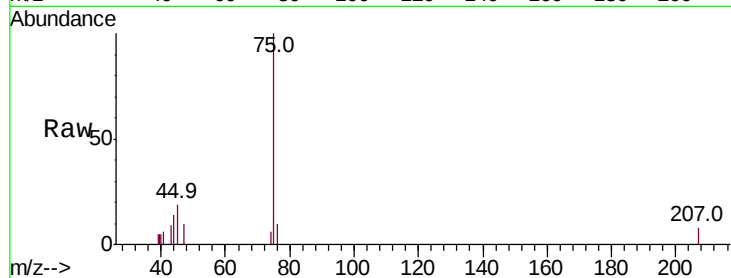




#25
2-Butanone
Concen: 0.248 ug/l
RT: 6.77 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VN063513.D
Acq: 22 Sep 2020 3:18

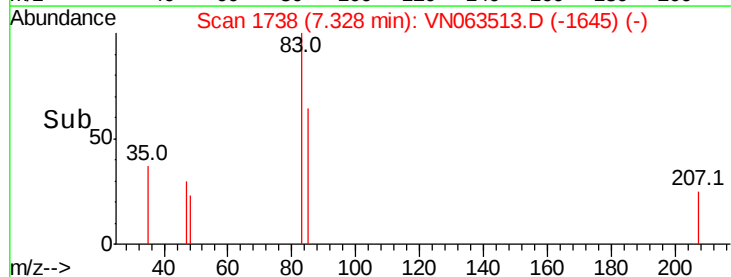
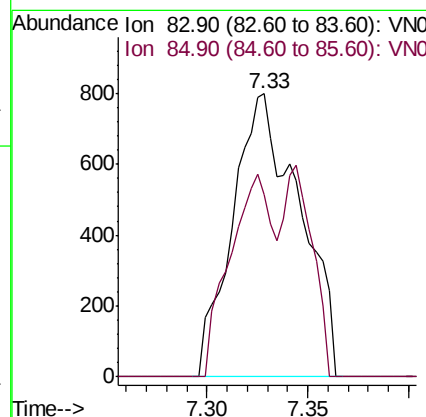
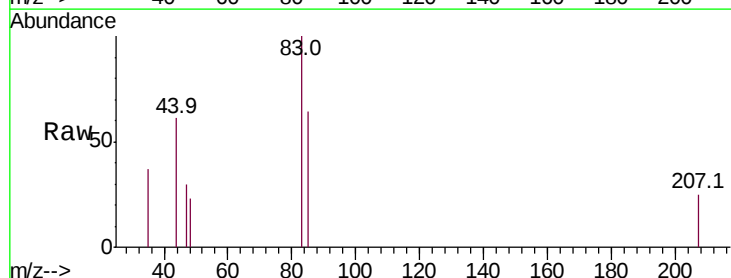
Instrument :
MSVOA_N
ClientSampleId :
RE134D1-20200915

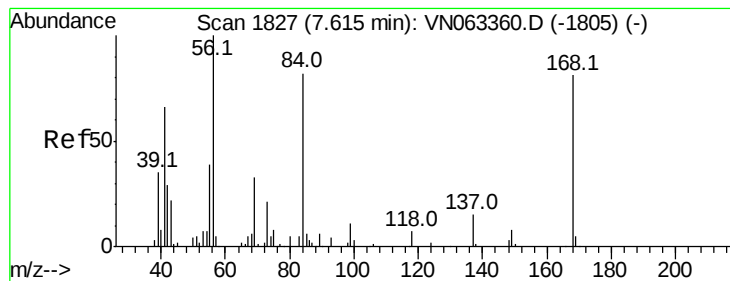
Tot Ion: 43 Resp: 466
Ion Ratio Lower Upper
43 100
72 0.0 19.2 28.8#



#30
Chloroform
Concen: 0.330 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN063513.D
Acq: 22 Sep 2020 3:18

Tgt Ion: 83 Resp: 1841
Ion Ratio Lower Upper
83 100
85 64.4 52.1 78.1





#31

Cyclohexane

Concen: 1.186 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

RE134D1-20200915

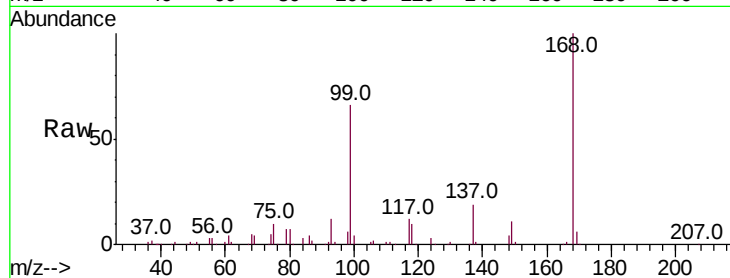
Tot Ion: 56 Resp: 6232

Ion Ratio Lower Upper

56 100

69 166.2 26.1 39.1#

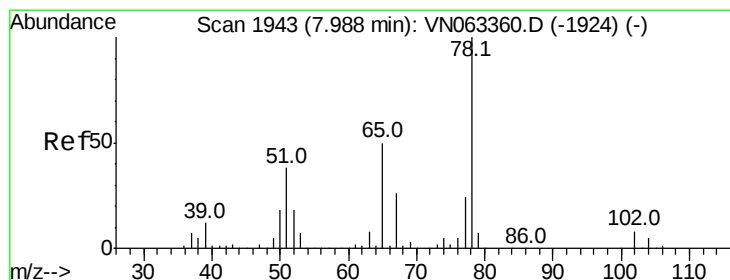
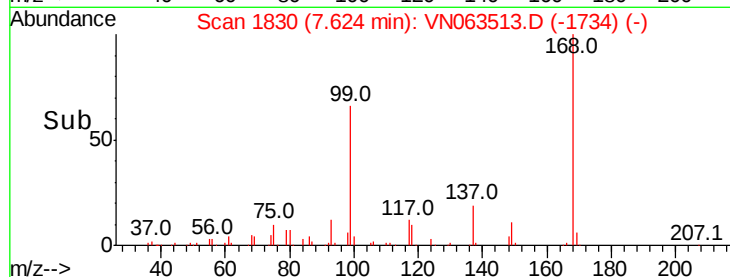
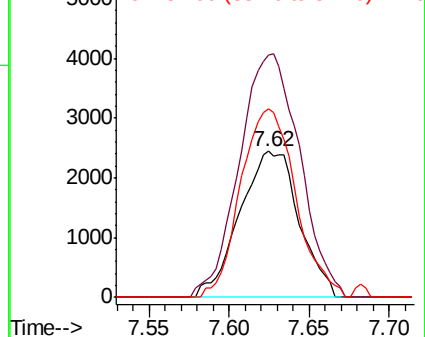
84 129.4 65.4 98.2#



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: 48.218 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063513.D

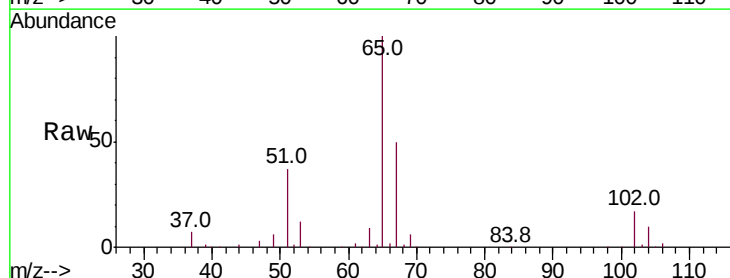
Acq: 22 Sep 2020 3:18

Tgt Ion: 65 Resp: 183497

Ion Ratio Lower Upper

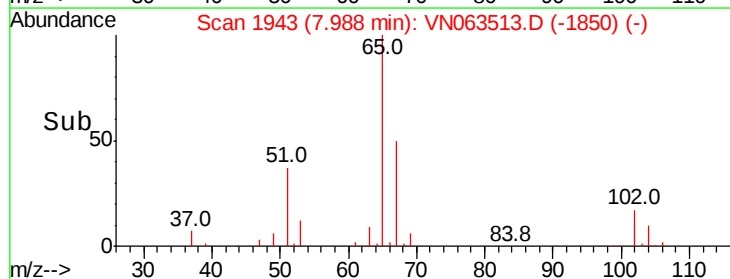
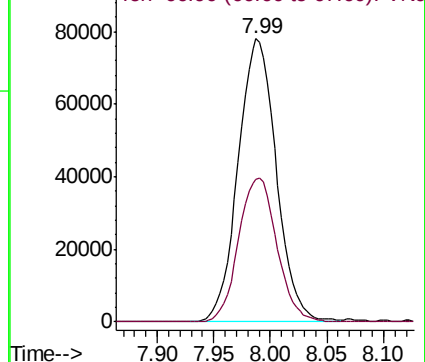
65 100

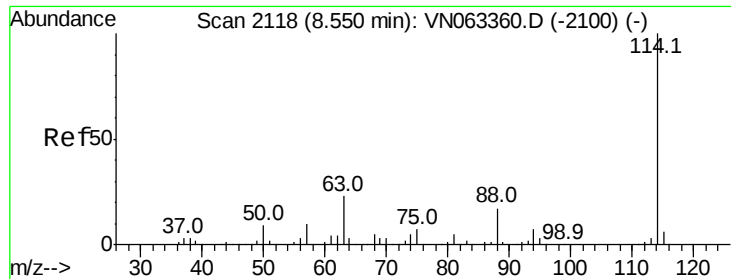
67 50.8 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

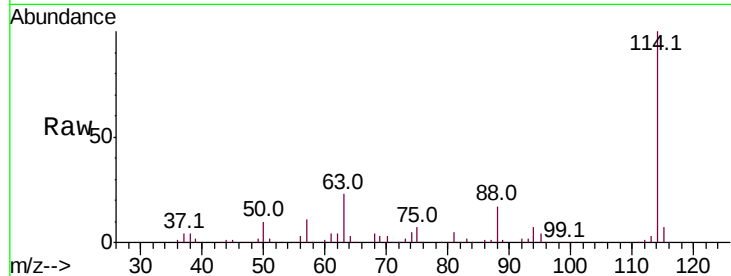




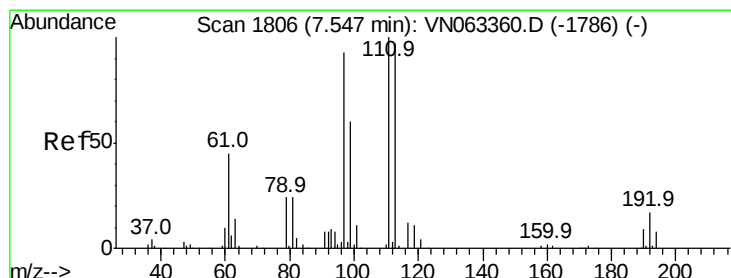
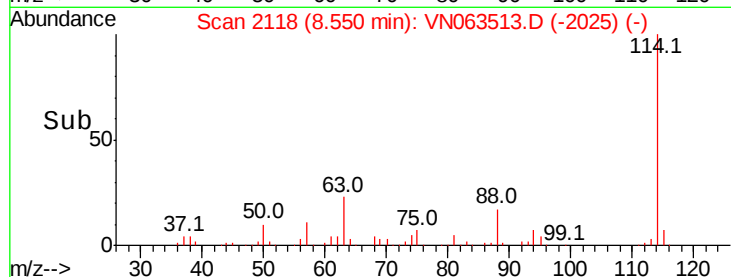
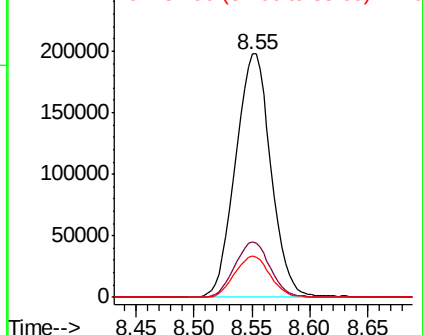
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063513.D
 Acq: 22 Sep 2020 3:18

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D1-20200915

Tot Ion:	114	Resp:	419991
Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	46.4
88	17.2	0.0	33.2

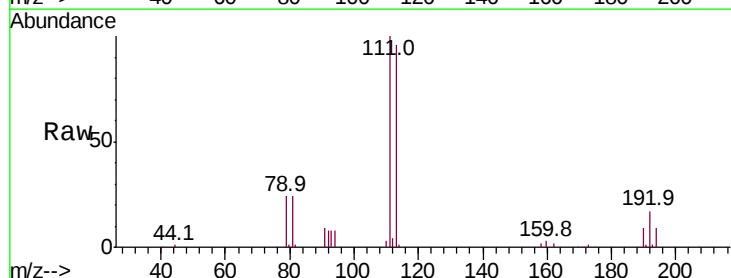


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

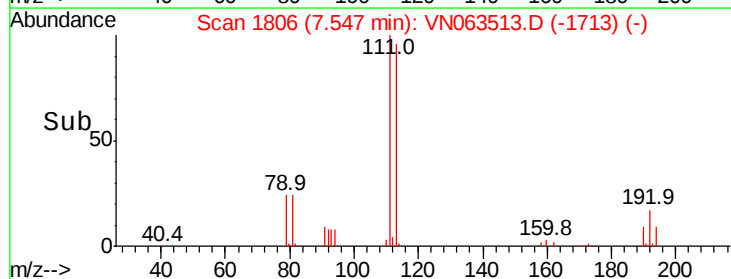
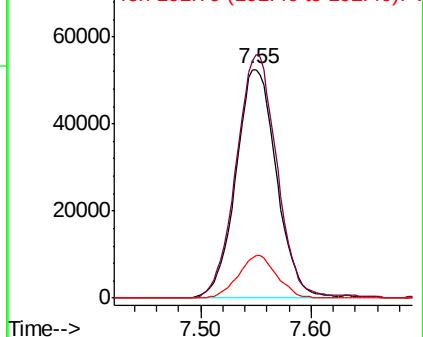


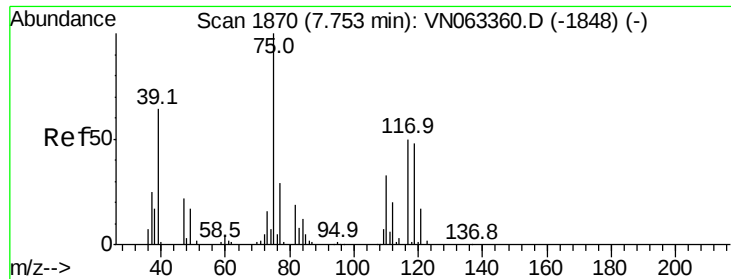
#35
 Dibromofluoromethane
 Concen: 46.076 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN063513.D
 Acq: 22 Sep 2020 3:18

Tgt Ion:	113	Resp:	133967
Ion	Ratio	Lower	Upper
113	100		
111	106.4	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: 4.692 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

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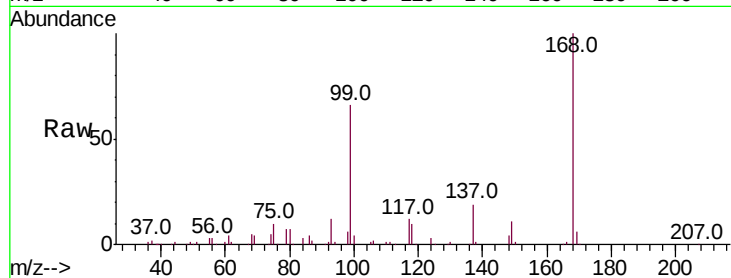
Tot Ion: 75 Resp: 20992

Ion Ratio Lower Upper

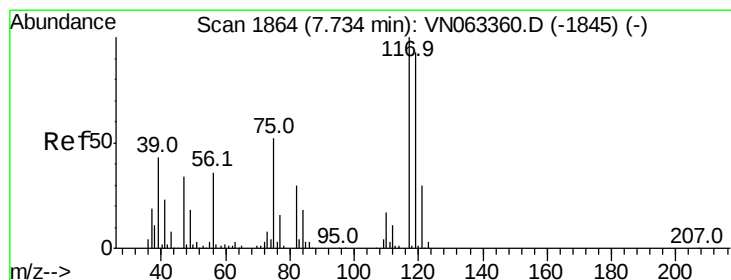
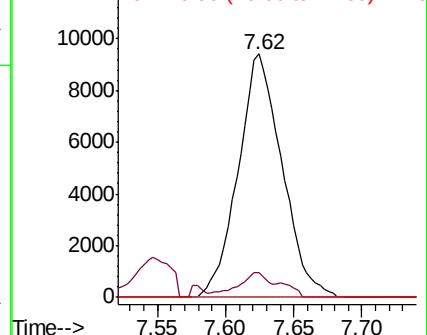
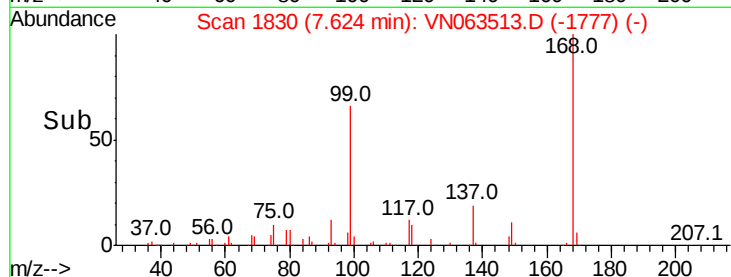
75 100

110 5.3 16.5 49.5#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN063513.D (-1777) (-)



#38

Carbon Tetrachloride

Concen: 5.631 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

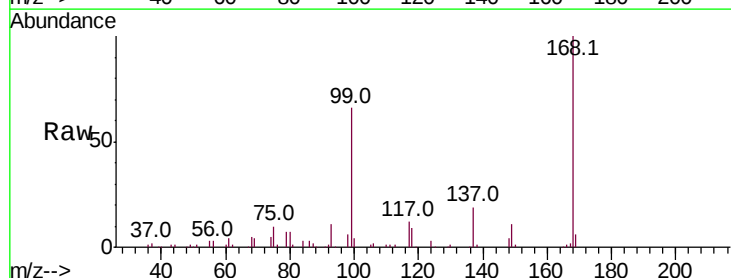
Tgt Ion: 117 Resp: 25720

Ion Ratio Lower Upper

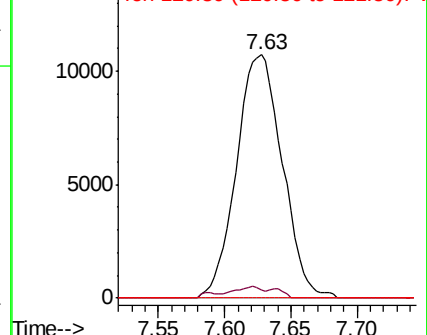
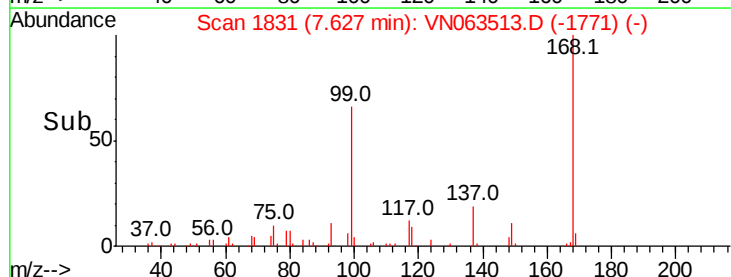
117 100

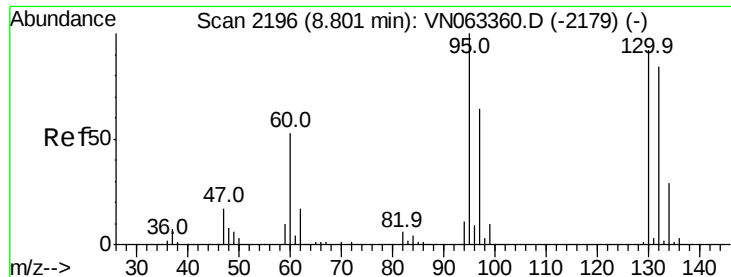
119 3.1 74.5 111.7#

121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): VN063513.D (-1771) (-)





#44

Trichloroethene

Concen: 12.215 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

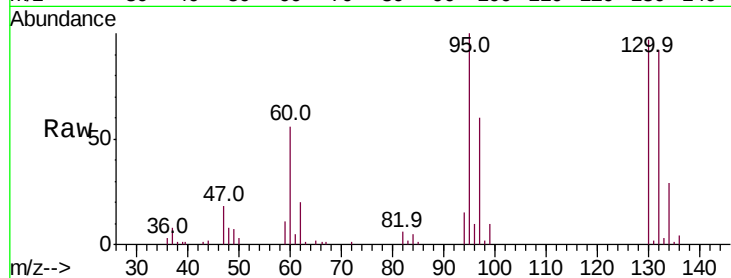
RE134D1-20200915

Tot Ion:130 Resp: 37842

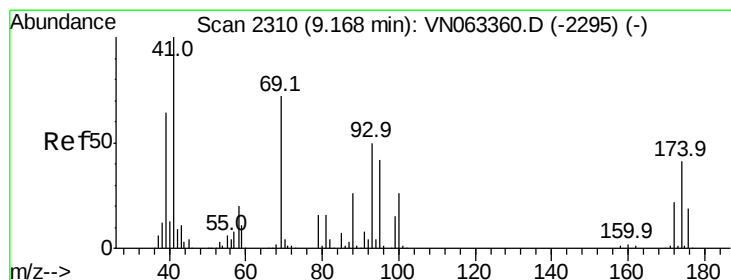
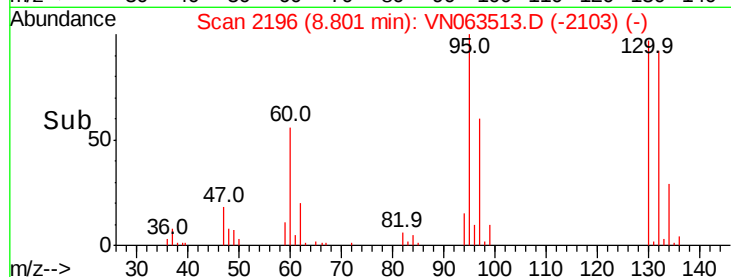
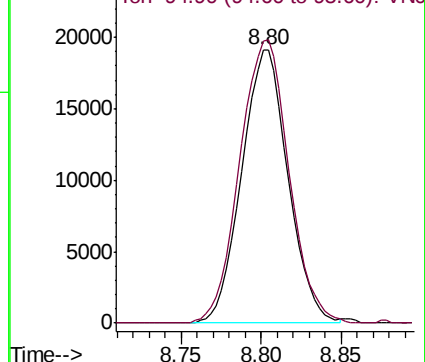
Ion Ratio Lower Upper

130 100

95 103.2 0.0 217.4



Abundance Ion 129.80 (129.50 to 130.50): VN063513.D (-2103) (-)



#49

1,4-Dioxane

Concen: 1.734 ug/l

RT: 9.16 min Scan# 2308

Delta R.T. -0.01 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

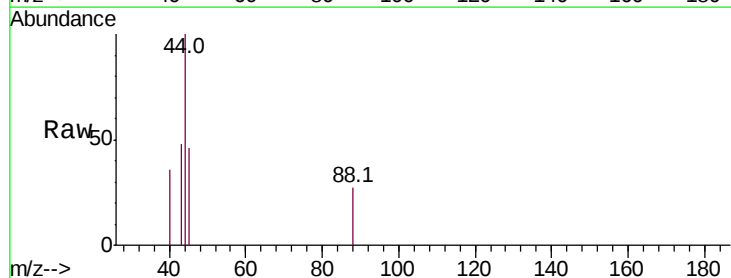
Tgt Ion: 88 Resp: 96

Ion Ratio Lower Upper

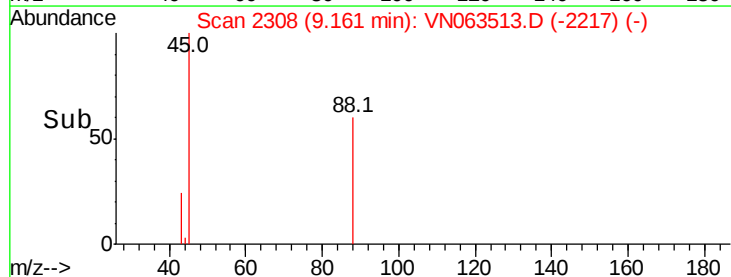
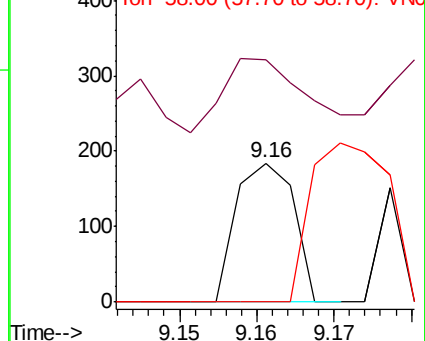
88 100

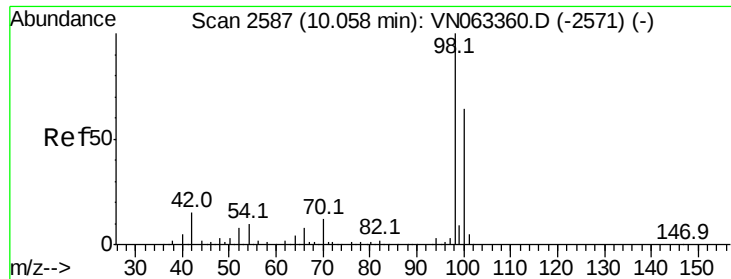
43 315.6 32.6 49.0#

58 0.0 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN063513.D (-2217) (-)





#50

Toluene-d8

Concen: 49.031 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

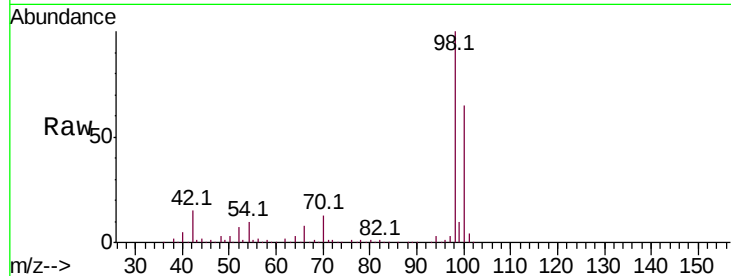
RE134D1-20200915

Tot Ion: 98 Resp: 536046

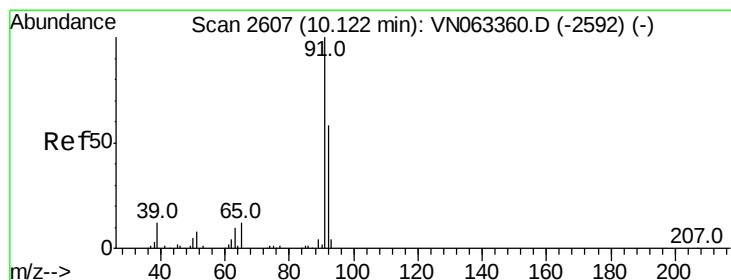
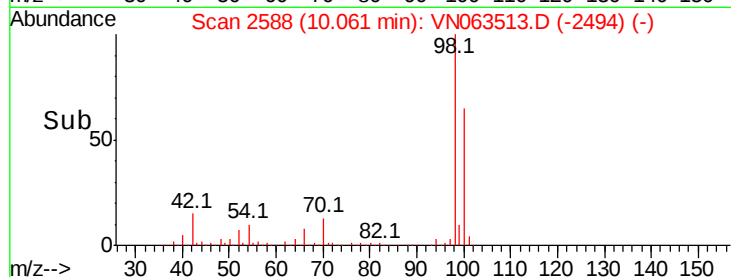
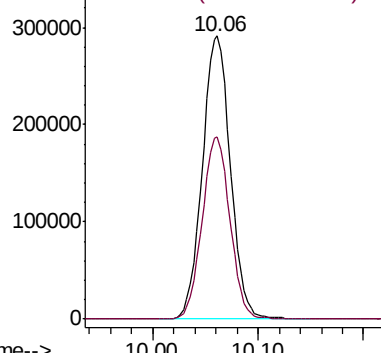
Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#52

Toluene

Concen: 0.256 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN063513.D

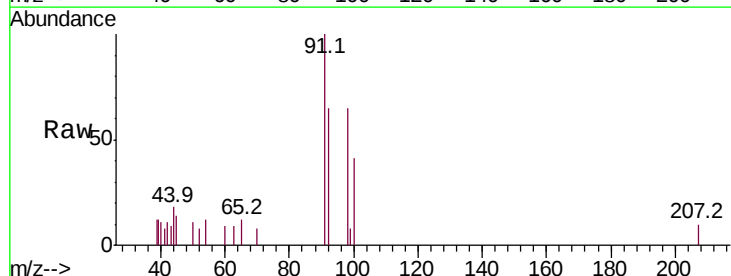
Acq: 22 Sep 2020 3:18

Tgt Ion: 92 Resp: 1969

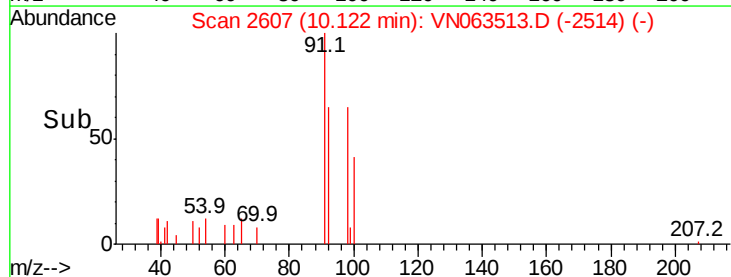
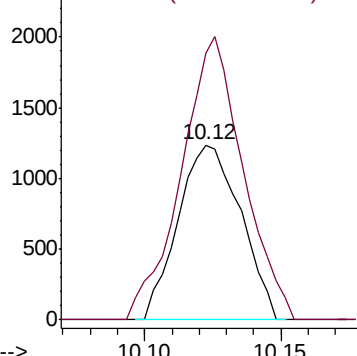
Ion Ratio Lower Upper

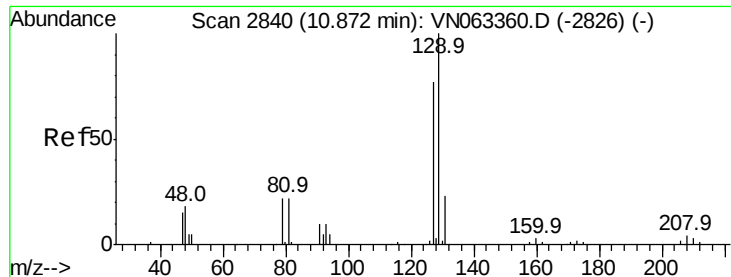
92 100

91 160.1 139.7 209.5



Abundance Ion 92.00 (91.70 to 92.70): VN063360.D (-2592) (-)





#60

Dibromochloromethane

Concen: 0.799 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

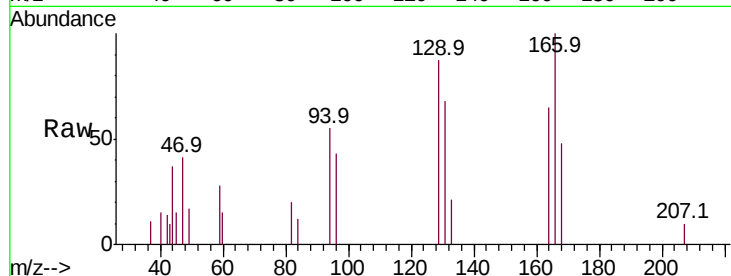
RE134D1-20200915

Tot Ion:129 Resp: 2753

Ion Ratio Lower Upper

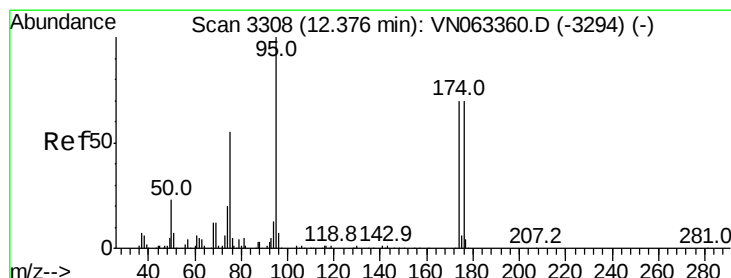
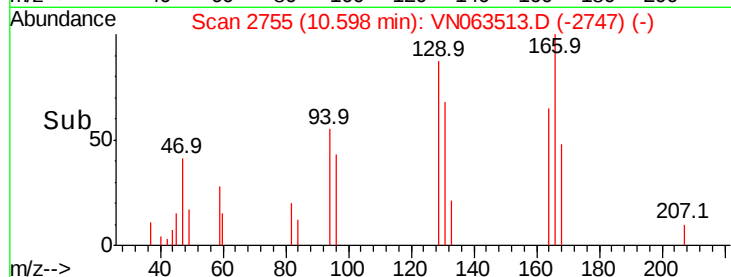
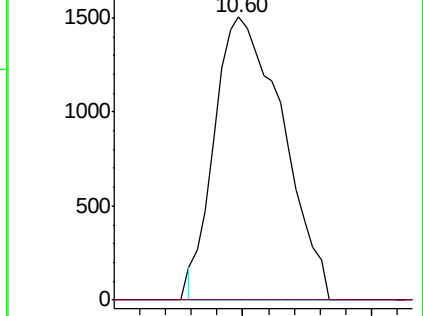
129 100

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



#62

4-Bromofluorobenzene

Concen: 52.308 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

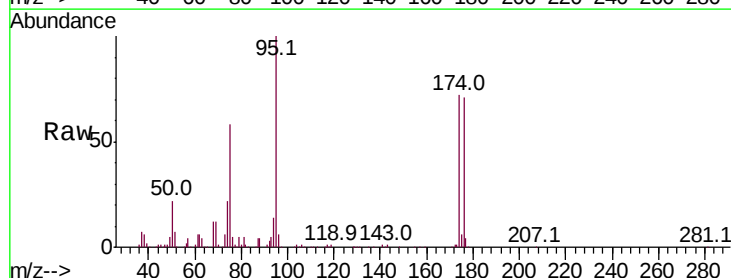
Tgt Ion: 95 Resp: 209639

Ion Ratio Lower Upper

95 100

174 72.5 0.0 140.8

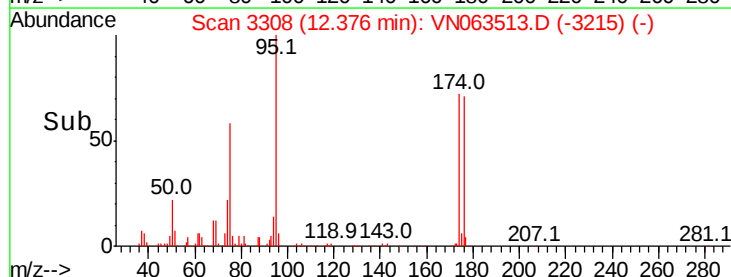
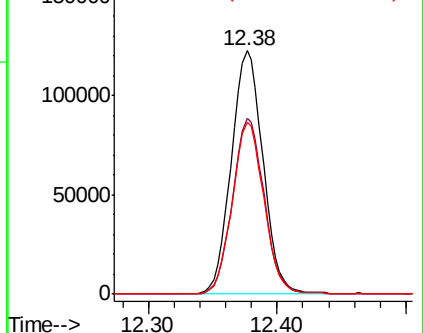
176 70.6 0.0 137.6

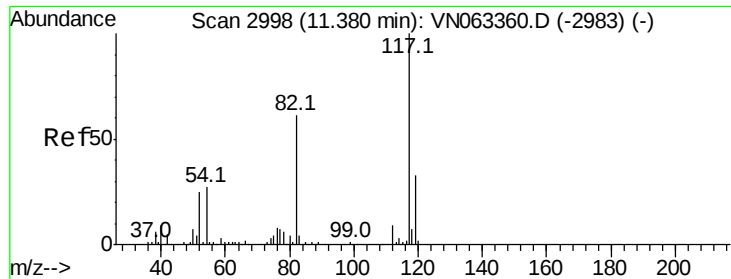


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

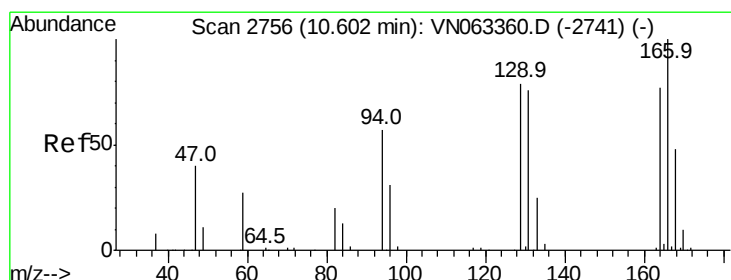
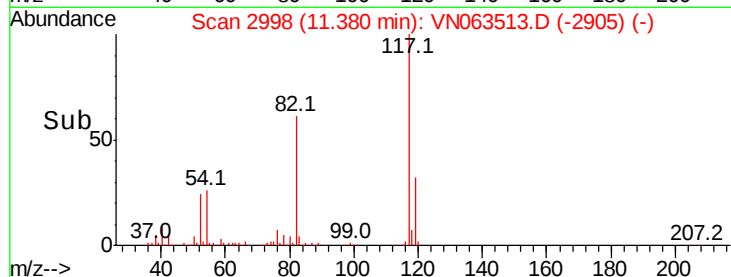
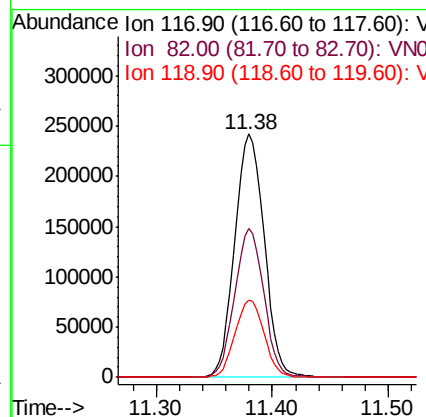
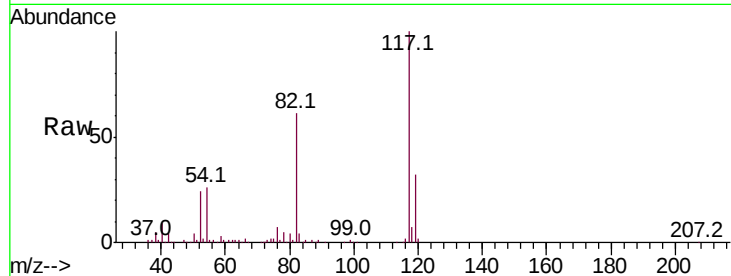




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063513.D
Acq: 22 Sep 2020 3:18

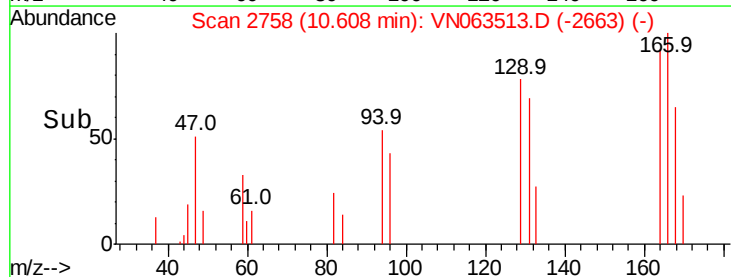
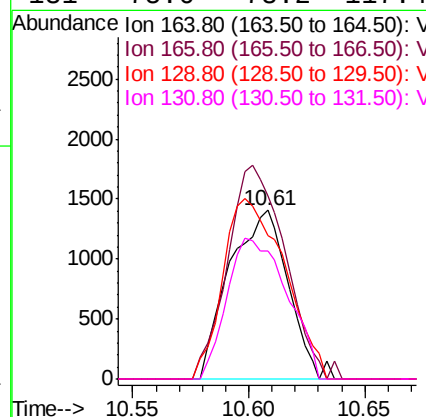
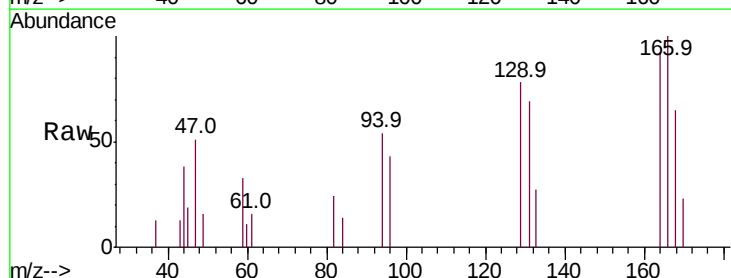
Instrument :
MSVOA_N
ClientSampleId :
RE134D1-20200915

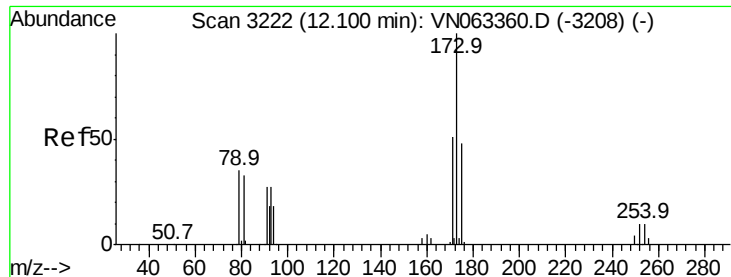
Tot Ion:117 Resp: 426248
Ion Ratio Lower Upper
117 100
82 61.1 49.2 73.8
119 31.9 26.2 39.4



#64
Tetrachloroethene
Concen: 0.851 ug/l
RT: 10.61 min Scan# 2758
Delta R.T. 0.01 min
Lab File: VN063513.D
Acq: 22 Sep 2020 3:18

Tgt Ion:164 Resp: 2470
Ion Ratio Lower Upper
164 100
166 108.9 103.4 155.0
129 84.9 81.8 122.6
131 75.6 78.2 117.4#





#71

Bromoform

Concen: 0.453 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

RE134D1-20200915

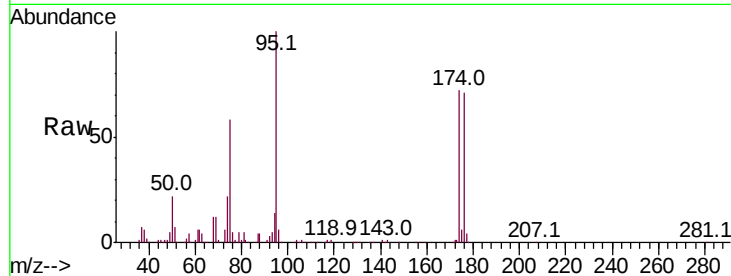
Tot Ion:173 Resp: 1119

Ion Ratio Lower Upper

173 100

175 845.0 24.0 72.0#

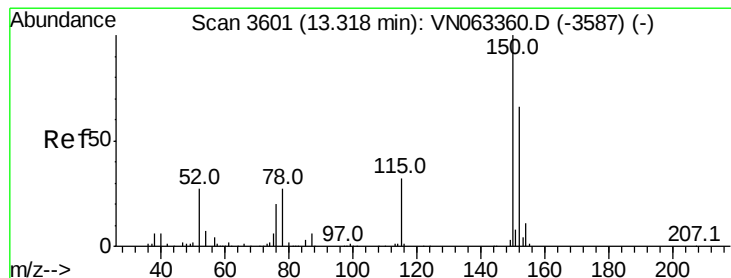
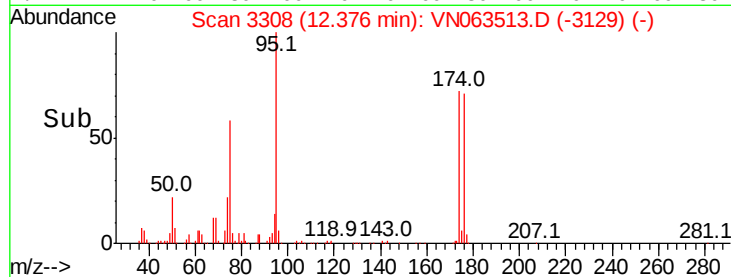
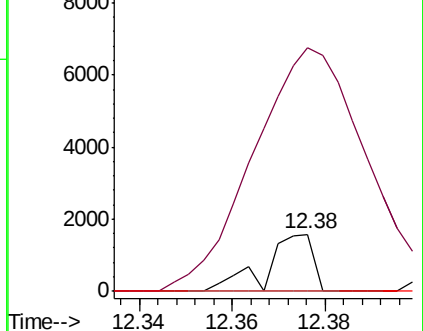
254 0.0 0.0 0.0



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: VN063513.D

Acq: 22 Sep 2020 3:18

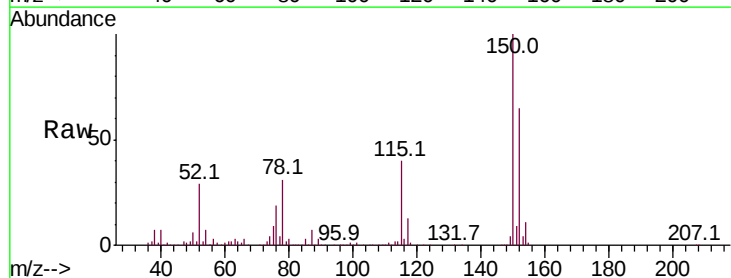
Tgt Ion:152 Resp: 179210

Ion Ratio Lower Upper

152 100

115 62.7 32.2 96.6

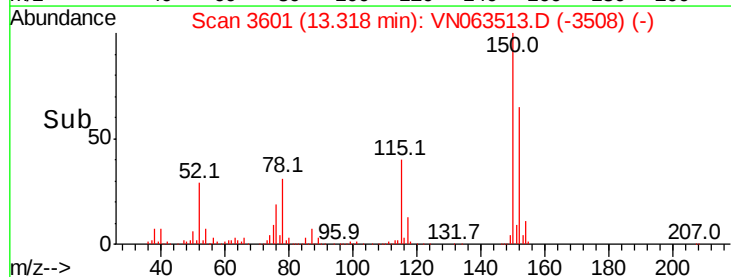
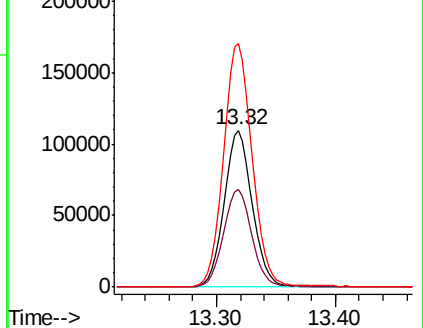
150 158.3 0.0 343.4

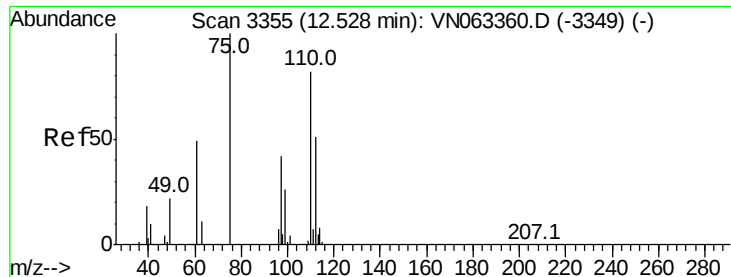


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.973 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Instrument :

MSVOA_N

ClientSampleId :

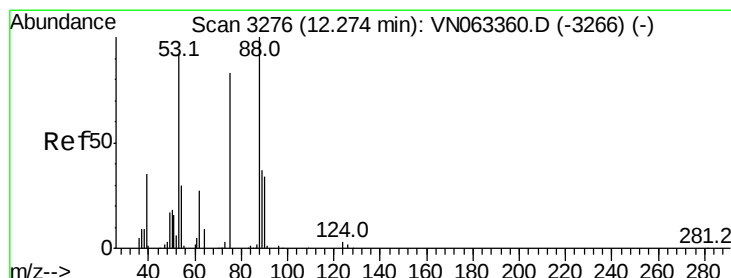
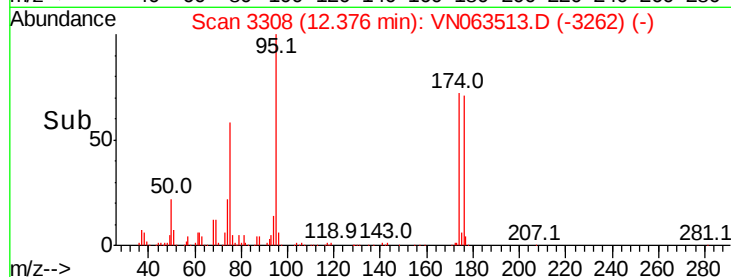
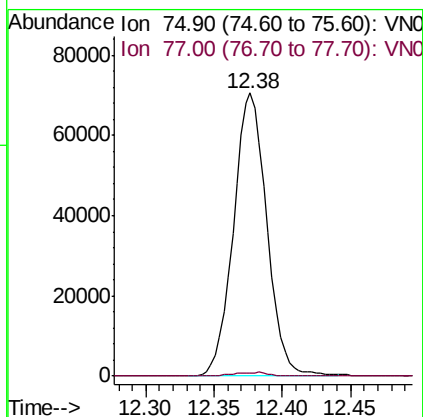
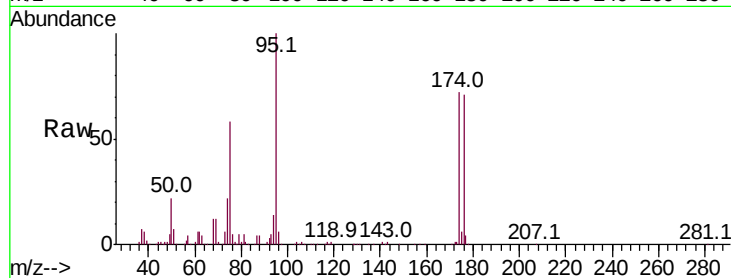
RE134D1-20200915

Tot Ion: 75 Resp: 119643

Ion Ratio Lower Upper

75 100

77 0.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.949 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063513.D

Acq: 22 Sep 2020 3:18

Tgt Ion: 75 Resp: 119643

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

