

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063522.D
 Acq On : 22 Sep 2020 6:53
 Operator : JC/MD
 Sample : L4082-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20200916

Quant Time: Sep 22 07:23:15 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	214925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	399641	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	394774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	172882	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	179030	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
35) Dibromofluoromethane	7.55	113	129483	46.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.60%	
50) Toluene-d8	10.06	98	511075	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	12.38	95	204529	53.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.26%	

Target Compounds

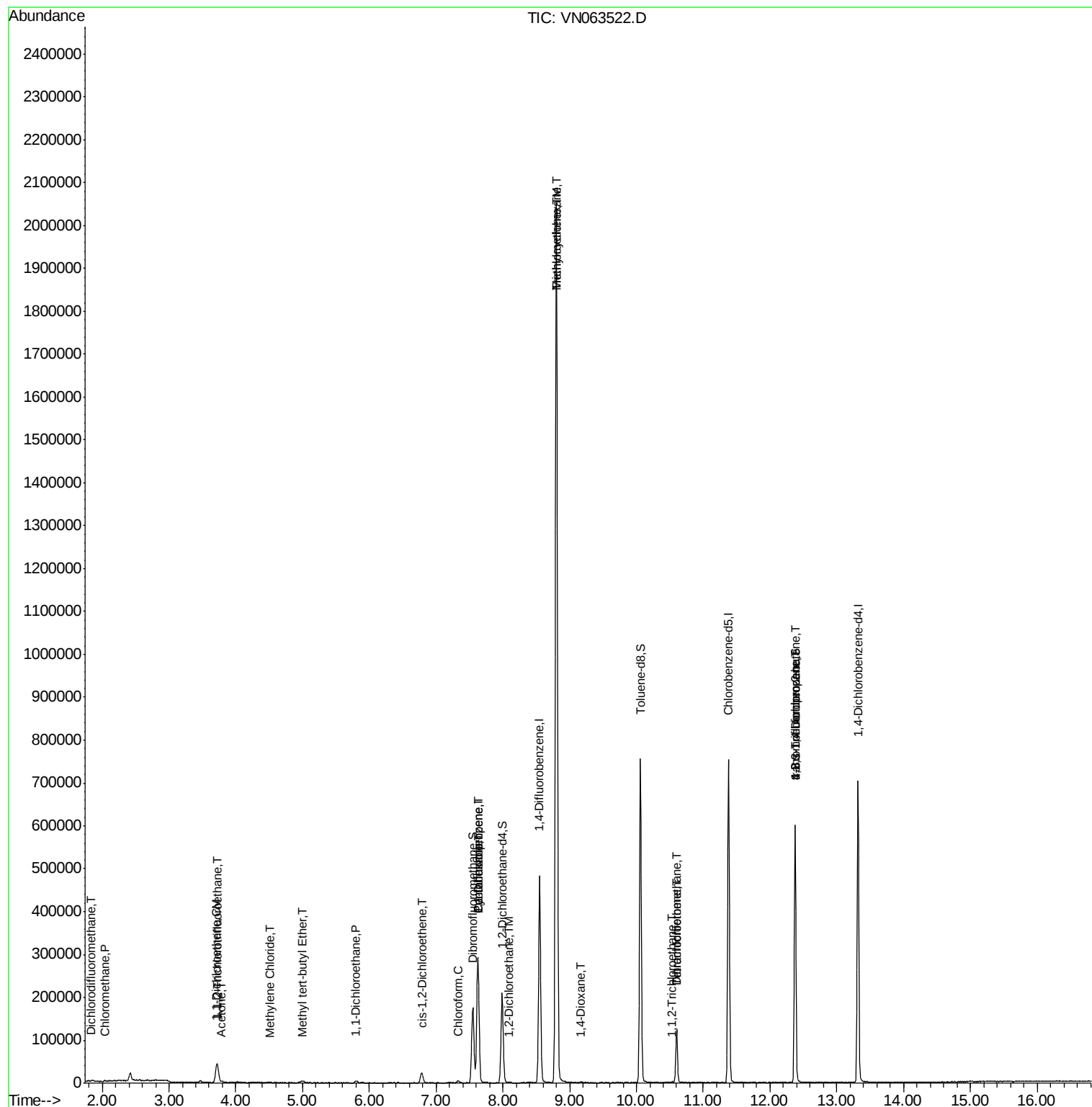
						Qvalue
2) Dichlorodifluoromethane	1.83	85	1012	0.416	ug/l #	61
3) Chloromethane	2.04	50	1529	0.475	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.72	101	23832	9.953	ug/l	97
12) 1,1-Dichloroethene	3.70	96	5311	2.190	ug/l	87
16) Acetone	3.79	43	5263	4.476	ug/l #	69
19) Methyl tert-butyl Ether	4.99	73	4694	0.519	ug/l #	87
20) Methylene Chloride	4.50	84	848	0.285	ug/l #	32
24) 1,1-Dichloroethane	5.80	63	6900	1.292	ug/l #	93
27) cis-1,2-Dichloroethene	6.78	96	14117	4.641	ug/l	87
30) Chloroform	7.33	83	2507	0.468	ug/l	92
31) Cyclohexane	7.63	56	6340	1.255	ug/l #	35
36) 1,1-Dichloropropene	7.62	75	20720	4.867	ug/l #	51
39) Methylcyclohexane	8.80	83	9331	2.019	ug/l #	1
42) 1,2-Dichloroethane	8.08	62	1258	0.257	ug/l #	78
44) Trichloroethene	8.80	130	686923	233.023	ug/l	100
49) 1,4-Dioxane	9.16	88	576	10.934	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	618	0.213	ug/l #	68
60) Dibromochloromethane	10.60	129	25063	7.643	ug/l #	10
64) Tetrachloroethene	10.60	164	24571	9.141	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	113111	26.434	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113111	72.471	ug/l #	7

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

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QLast Update : Wed Sep 16 13:05:20 2020
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: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

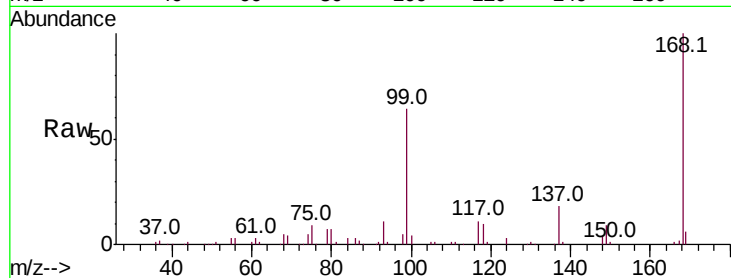
RE125D1-20200916

Tot Ion:168 Resp: 214925

Ion Ratio Lower Upper

168 100

99 64.3 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

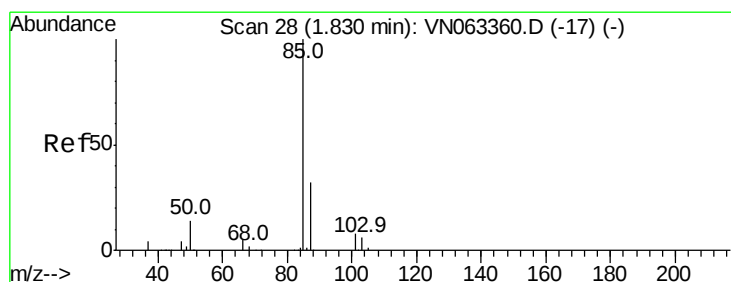
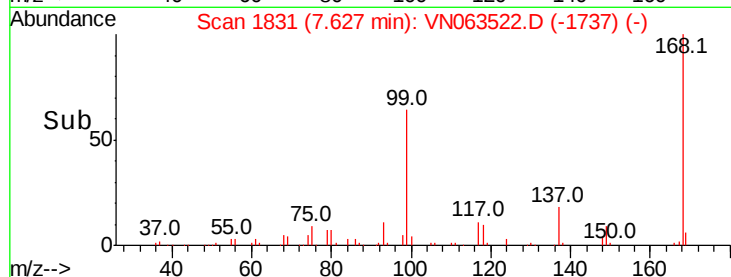
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.416 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063522.D

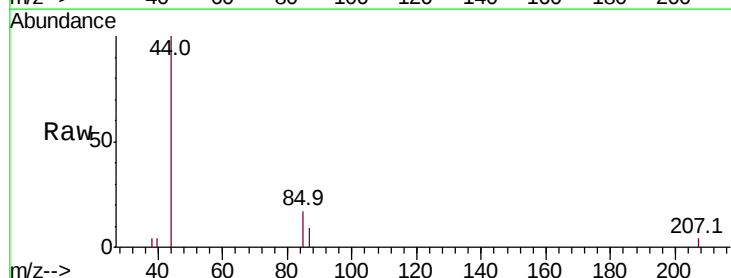
Acq: 22 Sep 2020 6:53

Tgt Ion: 85 Resp: 1012

Ion Ratio Lower Upper

85 100

87 53.1 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

800

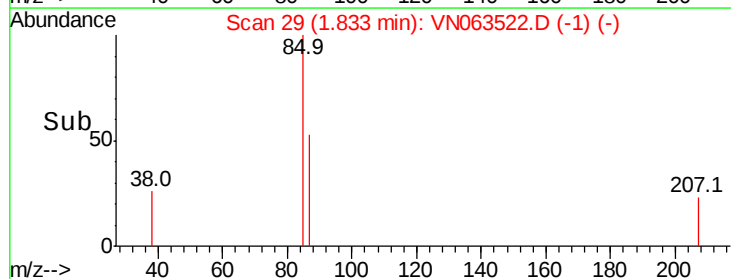
600

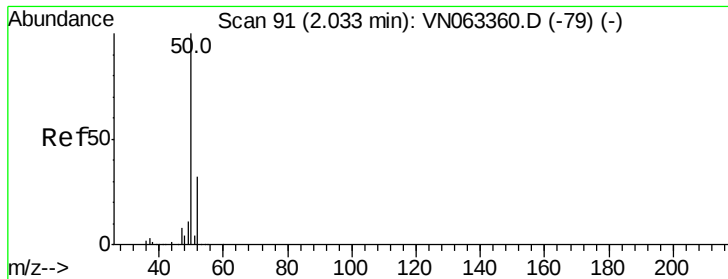
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.475 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

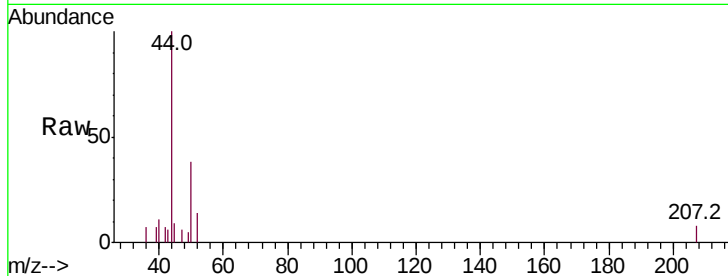
RE125D1-20200916

Tot Ion: 50 Resp: 1529

Ion Ratio Lower Upper

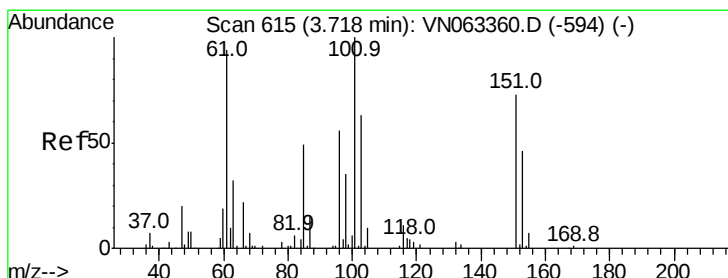
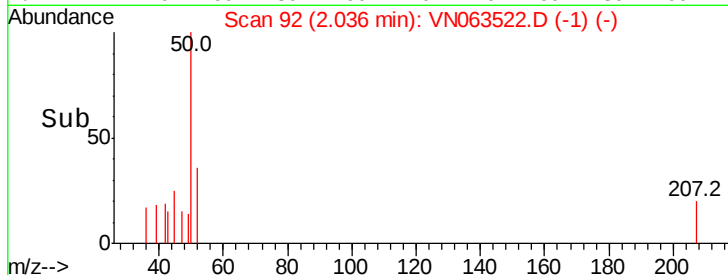
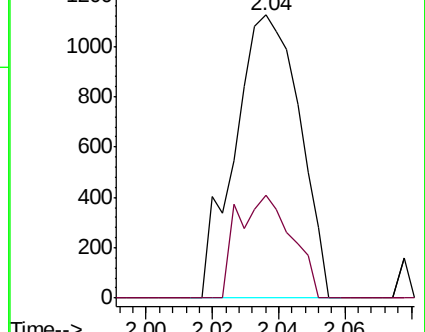
50 100

52 36.4 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN063360.D (-79) (-)

Ion 51.90 (51.60 to 52.60): VN063360.D (-79) (-)



#9

1,1,2-Trichlorotrifluoroethane

Concen: 9.953 ug/l

RT: 3.72 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

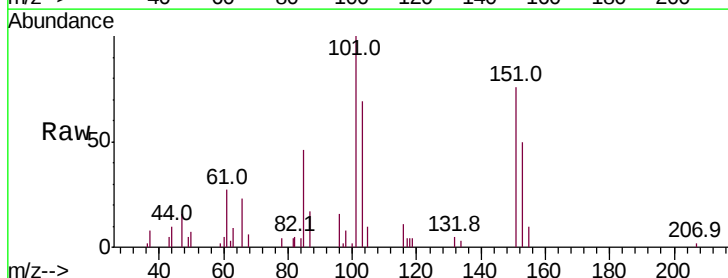
Tgt Ion: 101 Resp: 23832

Ion Ratio Lower Upper

101 100

85 47.0 37.7 56.5

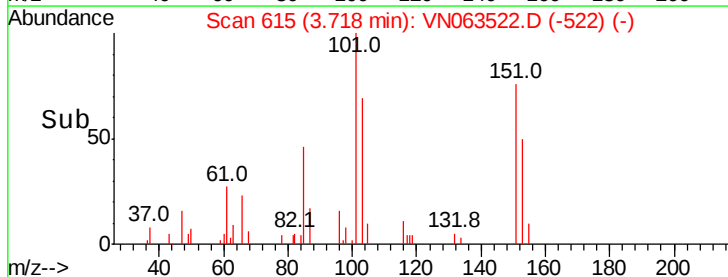
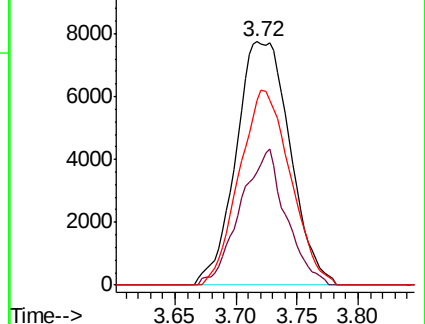
151 75.7 57.7 86.5

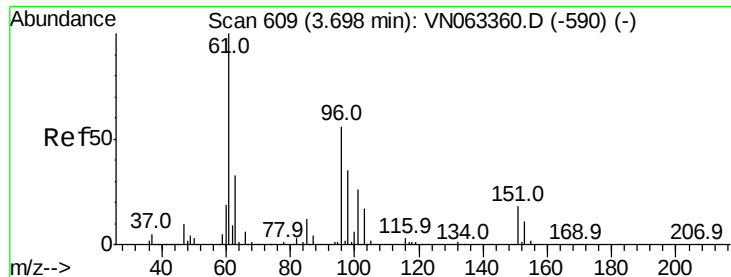


Abundance Ion 100.90 (100.60 to 101.60): VN063360.D (-594) (-)

Ion 84.90 (84.60 to 85.60): VN063360.D (-594) (-)

Ion 150.80 (150.50 to 151.50): VN063360.D (-594) (-)





#12

1,1-Dichloroethene

Concen: 2.190 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

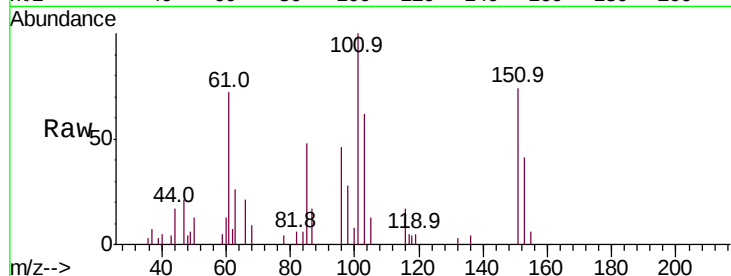
Tot Ion: 96 Resp: 5311

Ion Ratio Lower Upper

96 100

61 157.0 143.4 215.2

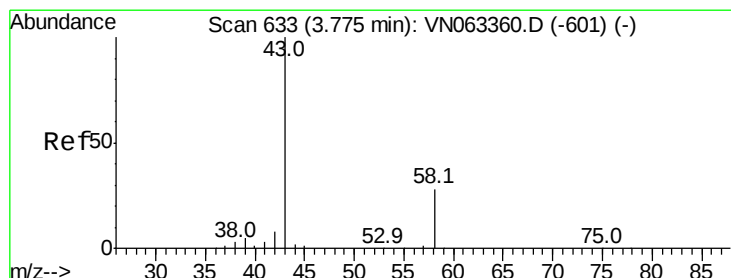
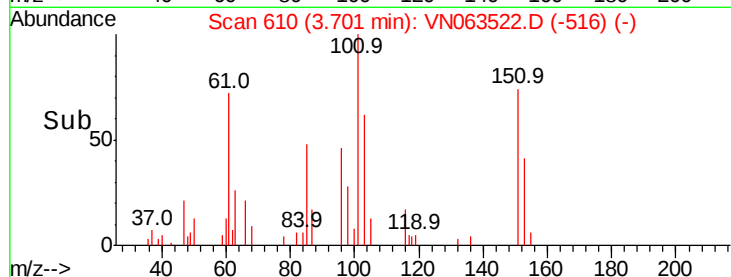
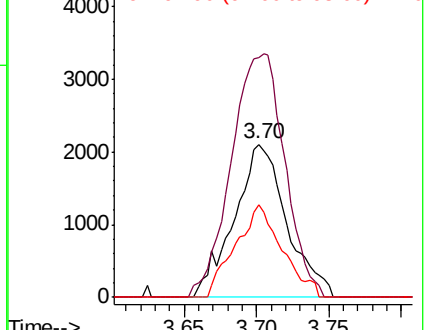
98 60.8 50.6 76.0



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



#16

Acetone

Concen: 4.476 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN063522.D

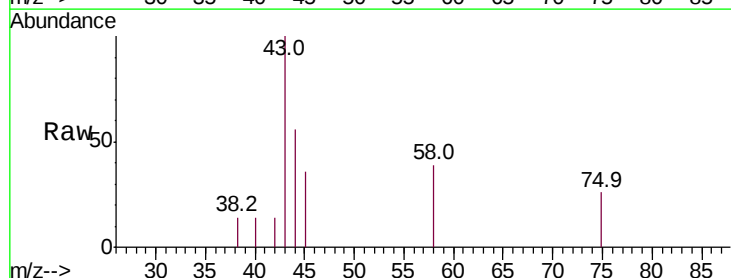
Acq: 22 Sep 2020 6:53

Tgt Ion: 43 Resp: 5263

Ion Ratio Lower Upper

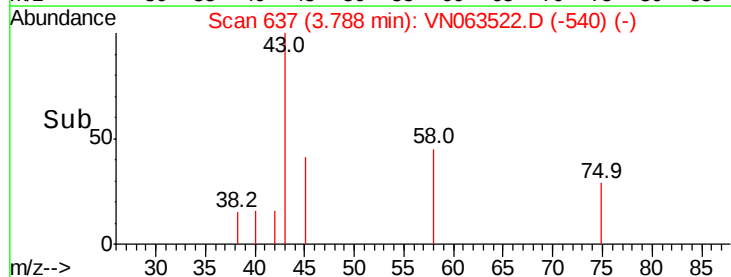
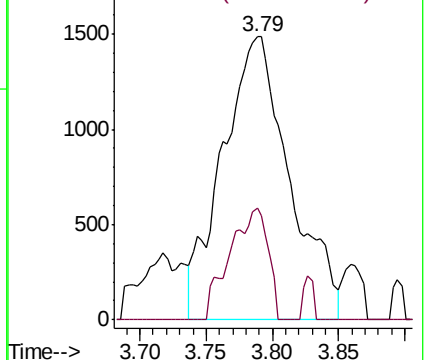
43 100

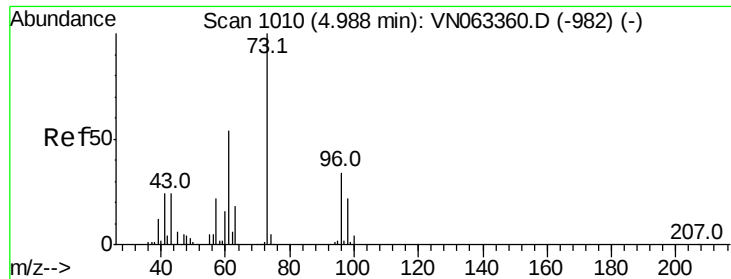
58 44.2 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

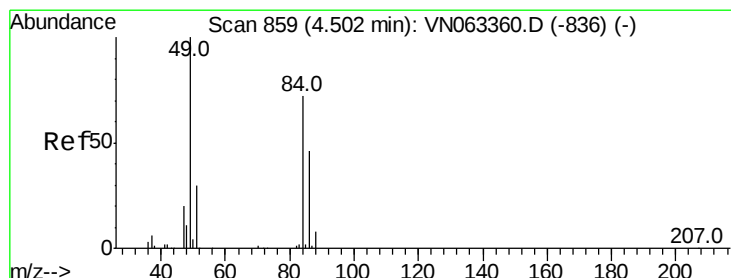
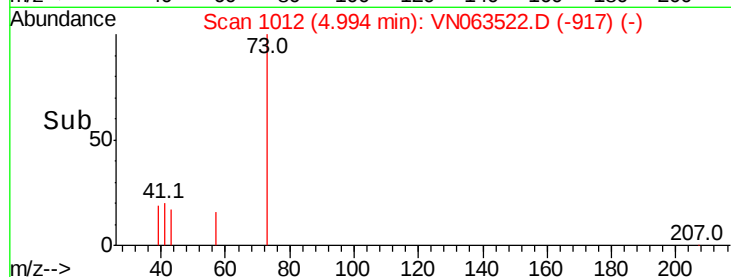
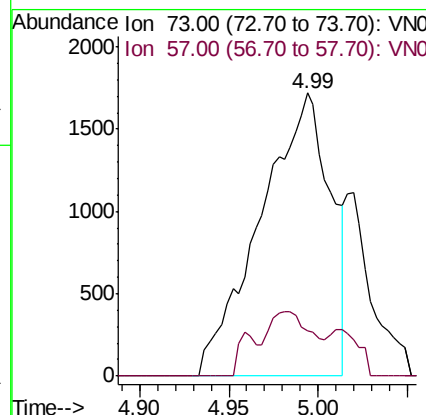
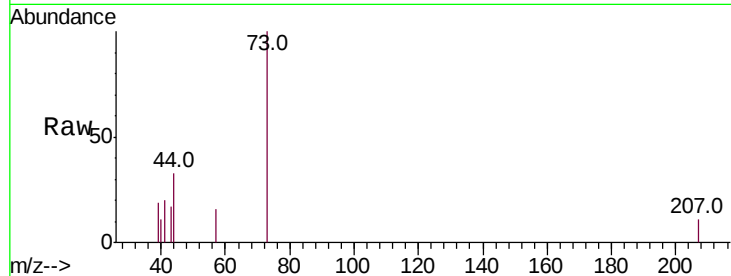




#19
Methvl tert-butvl Ether
Concen: 0.519 ug/l
RT: 4.99 min Scan# 1012
Delta R.T. 0.01 min
Lab File: VN063522.D
Acq: 22 Sep 2020 6:53

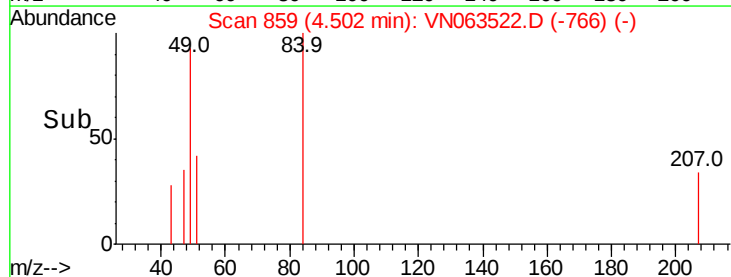
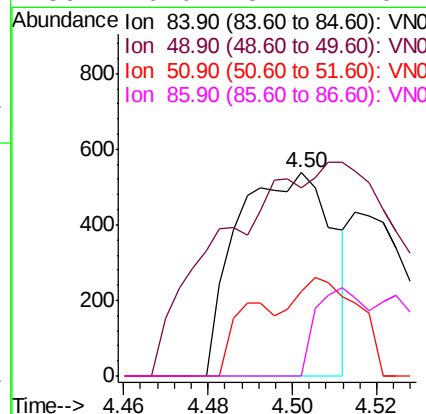
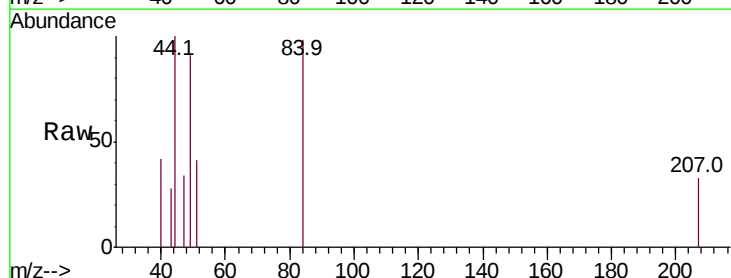
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20200916

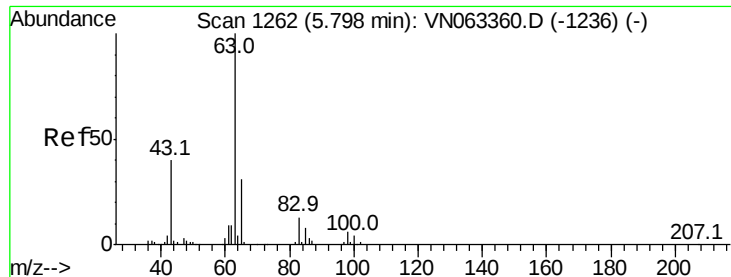
Tot Ion: 73 Resp: 4694
Ion Ratio Lower Upper
73 100
57 16.1 17.9 26.9#



#20
Methylene Chloride
Concen: 0.285 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063522.D
Acq: 22 Sep 2020 6:53

Tgt Ion: 84 Resp: 848
Ion Ratio Lower Upper
84 100
49 39.9 110.7 166.1#
51 41.7 32.9 49.3
86 0.0 51.1 76.7#





#24

1,1-Dichloroethane

Concen: 1.292 ug/l

RT: 5.80 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

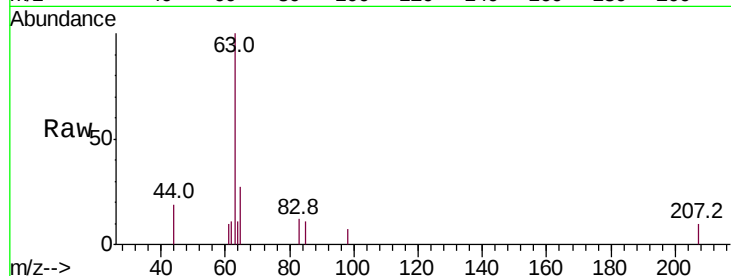
Tot Ion: 63 Resp: 6900

Ion Ratio Lower Upper

63 100

98 7.1 2.9 8.8

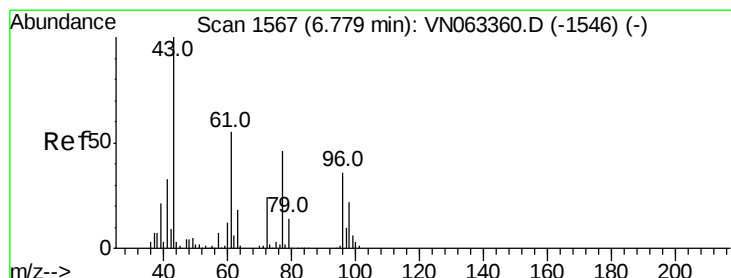
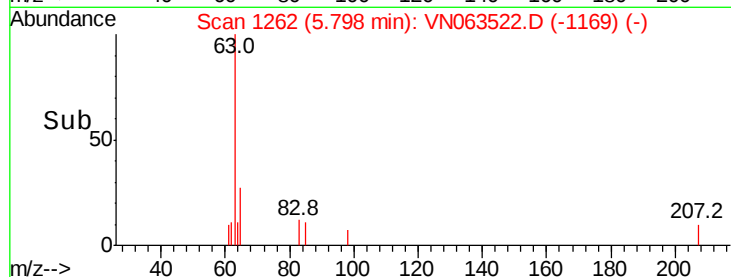
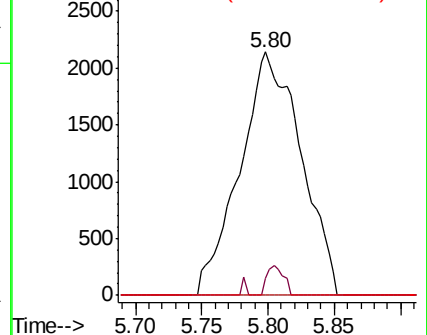
100 0.0 2.1 6.3#



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: 4.641 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

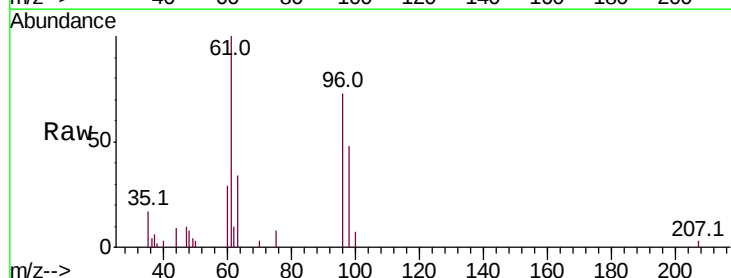
Tgt Ion: 96 Resp: 14117

Ion Ratio Lower Upper

96 100

61 138.2 0.0 319.6

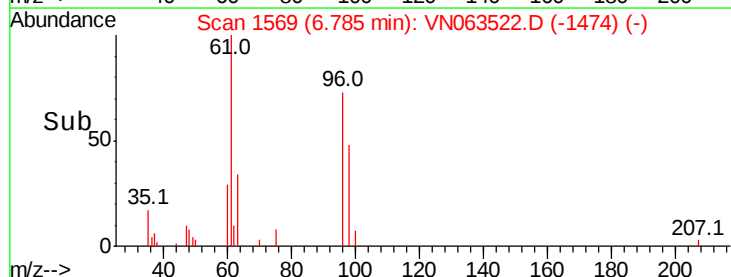
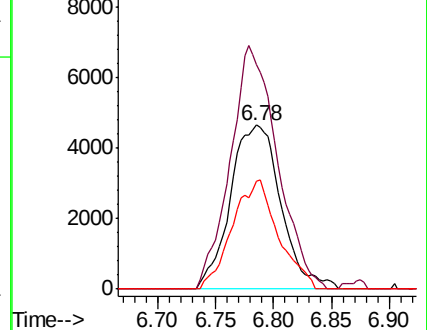
98 60.3 0.0 127.8

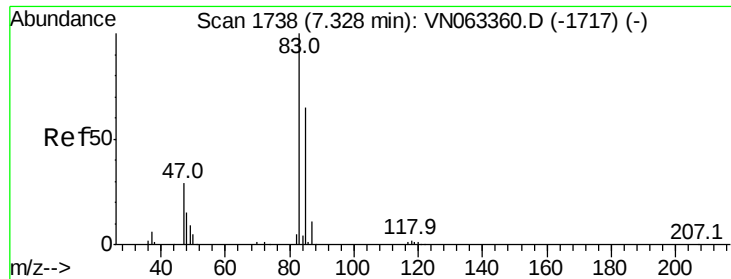


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#30

Chloroform

Concen: 0.468 ug/l

RT: 7.33 min Scan# 1737

Delta R.T. -0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

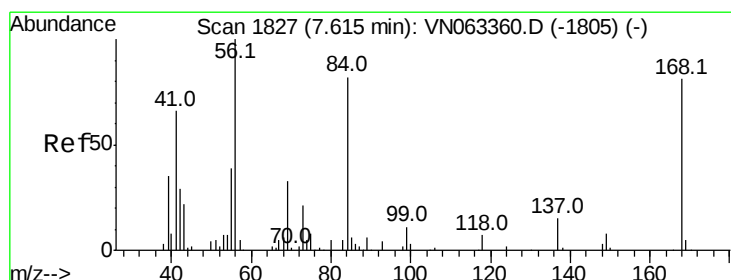
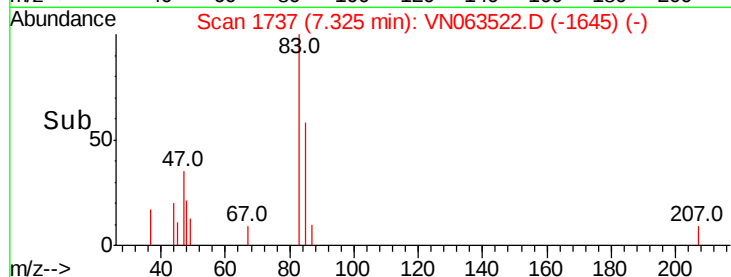
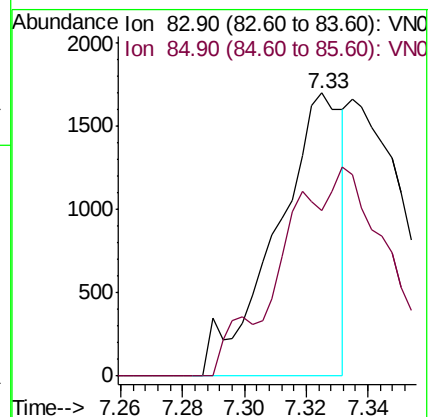
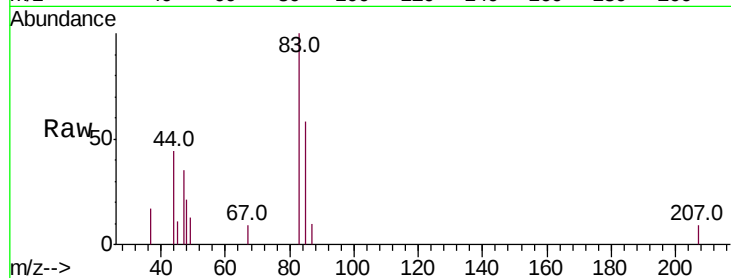
RE125D1-20200916

Tot Ion: 83 Resp: 2507

Ion Ratio Lower Upper

83 100

85 58.4 52.1 78.1



#31

Cyclohexane

Concen: 1.255 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

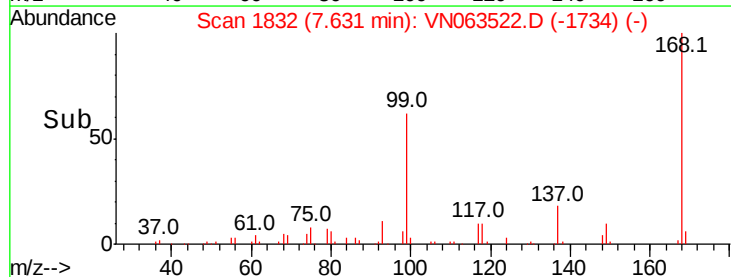
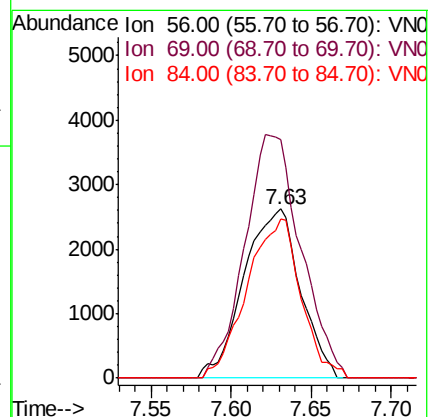
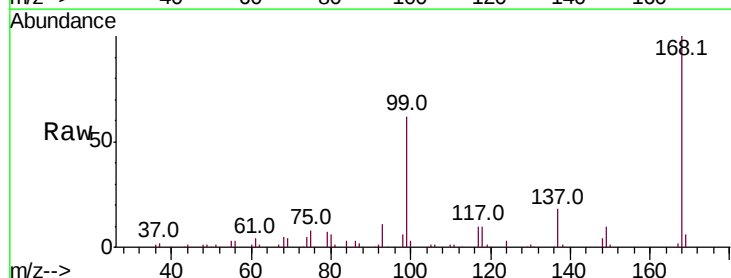
Tgt Ion: 56 Resp: 6340

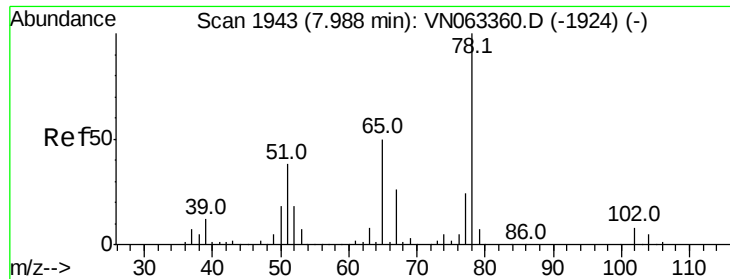
Ion Ratio Lower Upper

56 100

69 141.0 26.1 39.1#

84 94.0 65.4 98.2

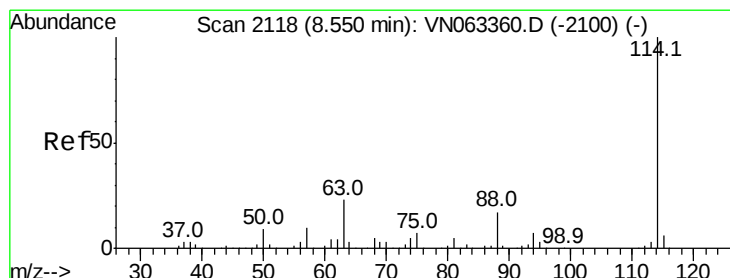
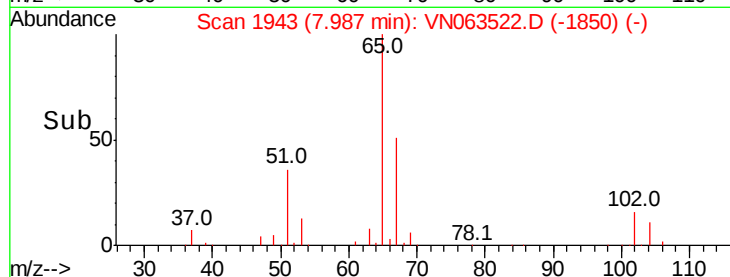
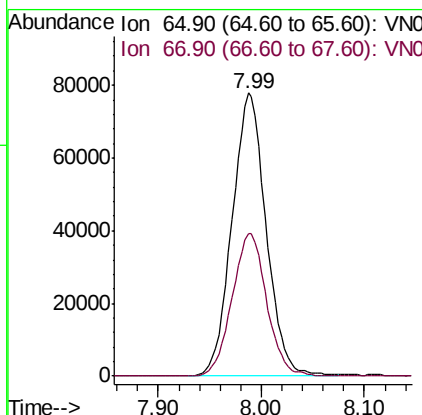
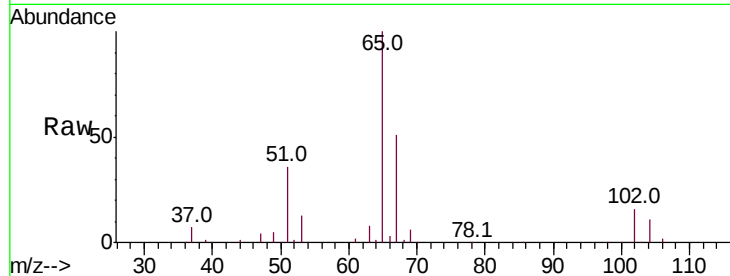




#33
 1,2-Dichloroethane-d4
 Concen: 48.934 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063522.D
 Acq: 22 Sep 2020 6:53

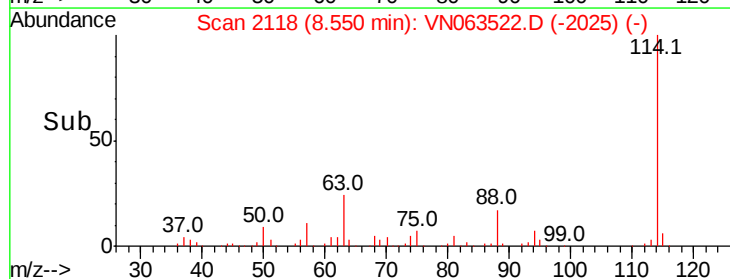
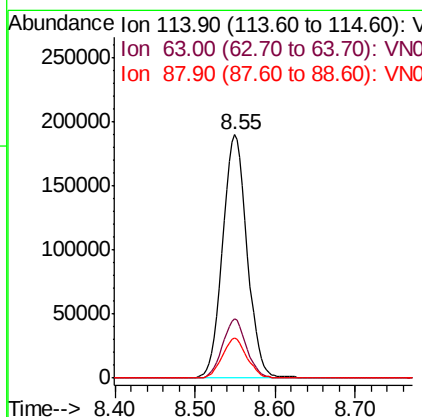
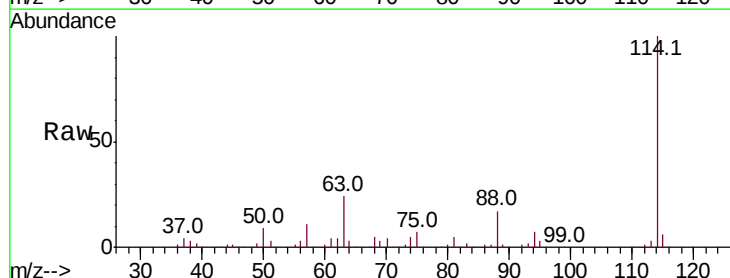
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20200916

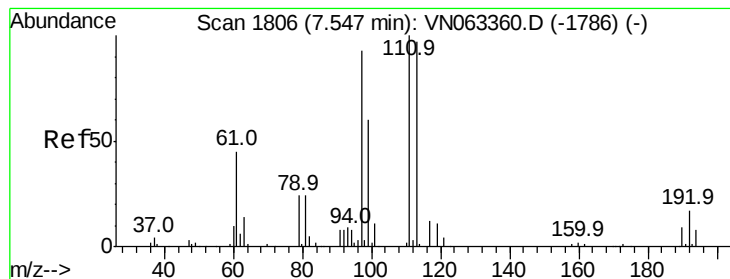
Tot Ion: 65 Resp: 179030
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063522.D
 Acq: 22 Sep 2020 6:53

Tgt Ion: 114 Resp: 399641
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 46.4
 88 16.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.802 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

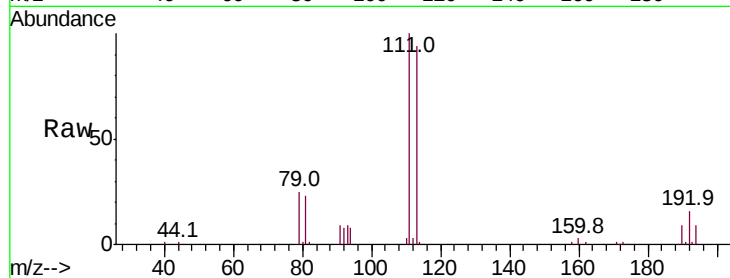
Tot Ion:113 Resp: 129483

Ion Ratio Lower Upper

113 100

111 103.9 82.9 124.3

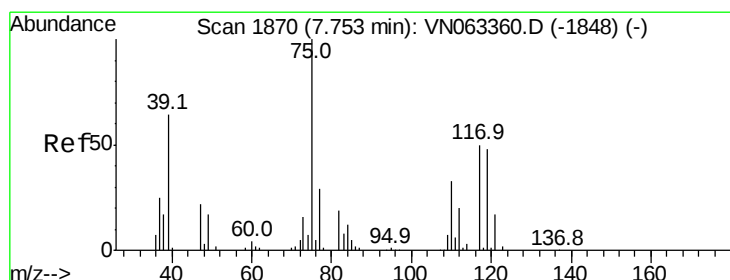
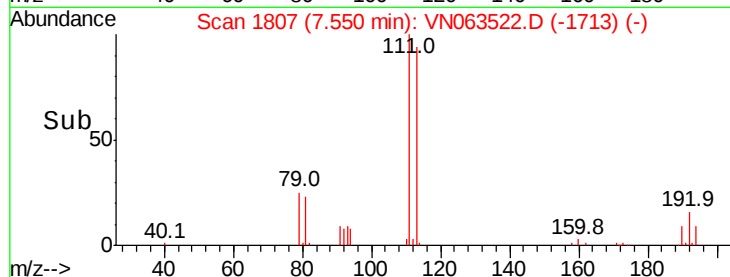
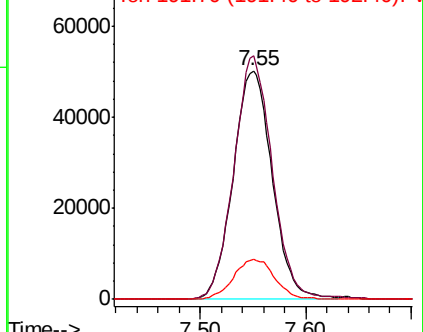
192 18.4 13.9 20.9



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: 4.867 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

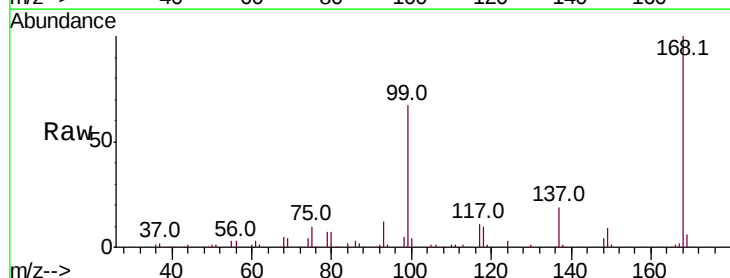
Tgt Ion: 75 Resp: 20720

Ion Ratio Lower Upper

75 100

110 9.3 16.5 49.5#

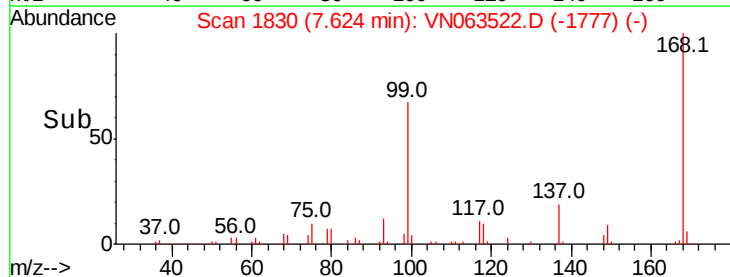
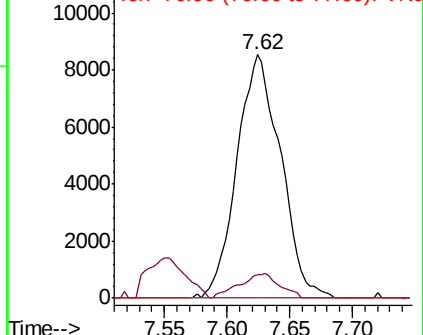
77 0.0 24.6 36.8#

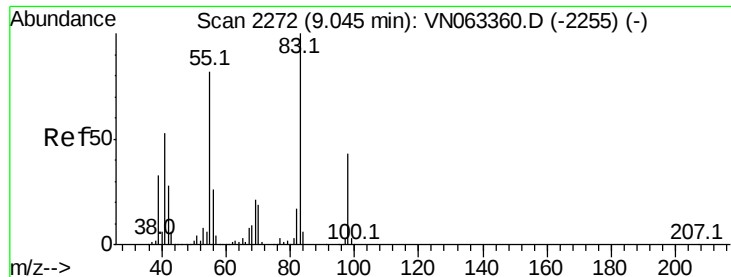


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0





#39

Methylcyclohexane

Concen: 2.019 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.24 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

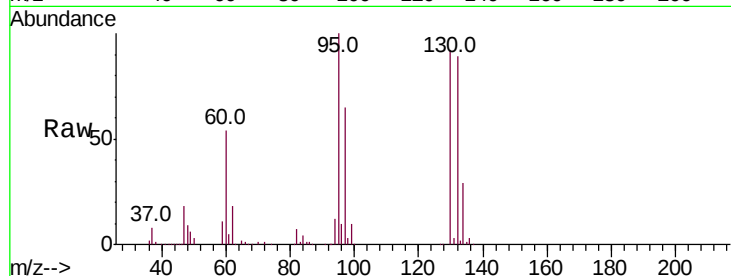
Tot Ion: 83 Resp: 9331

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

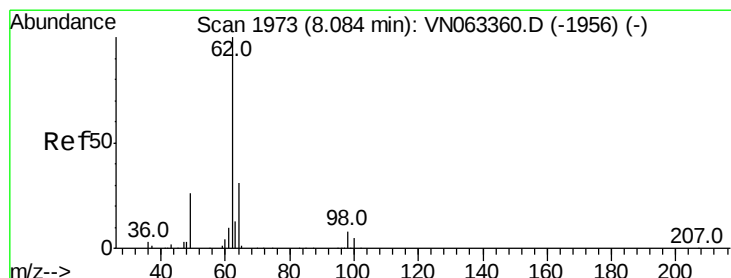
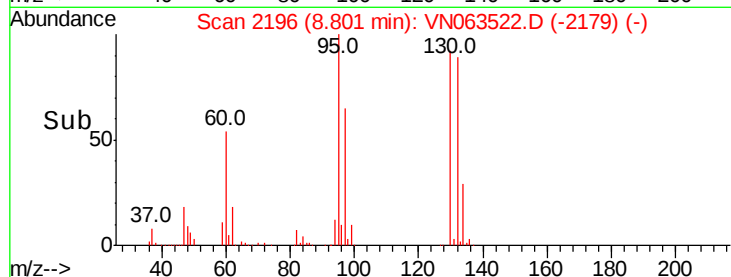
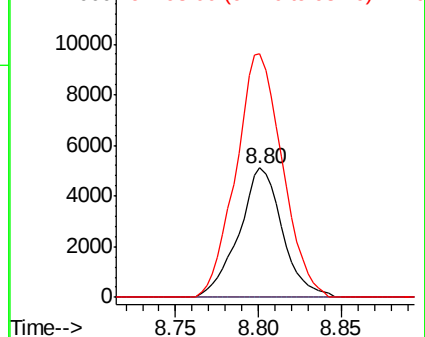
98 187.9 34.2 51.4#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#42

1,2-Dichloroethane

Concen: 0.257 ug/l

RT: 8.08 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VN063522.D

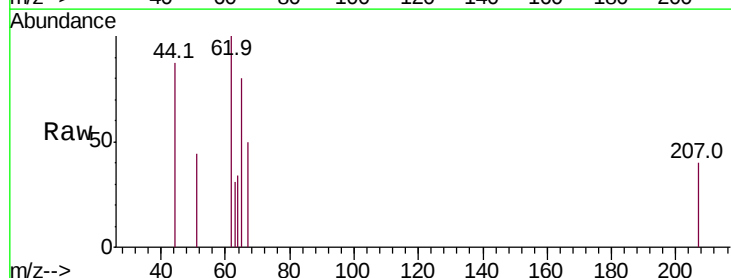
Acq: 22 Sep 2020 6:53

Tgt Ion: 62 Resp: 1258

Ion Ratio Lower Upper

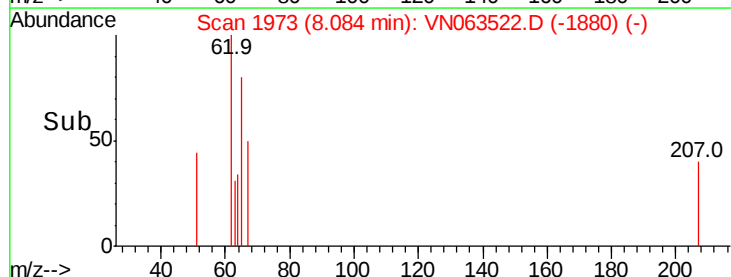
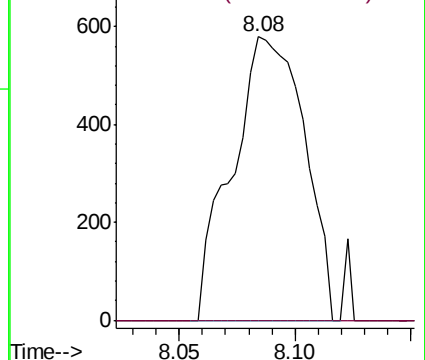
62 100

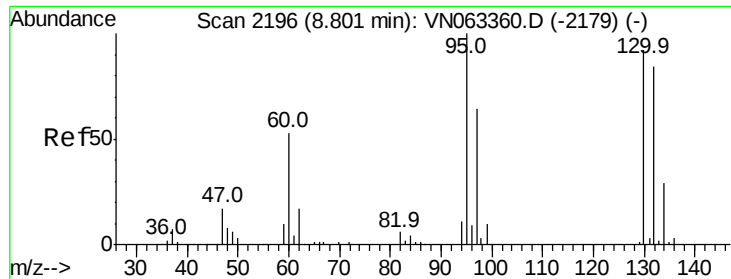
98 0.0 0.0 15.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

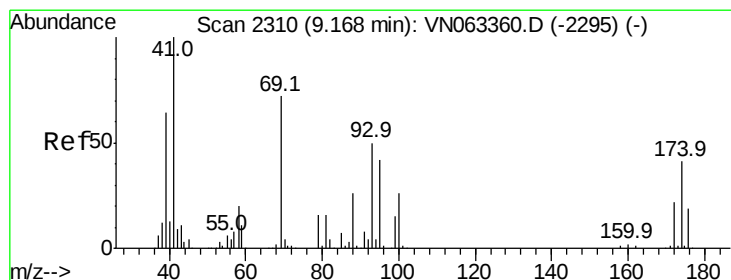
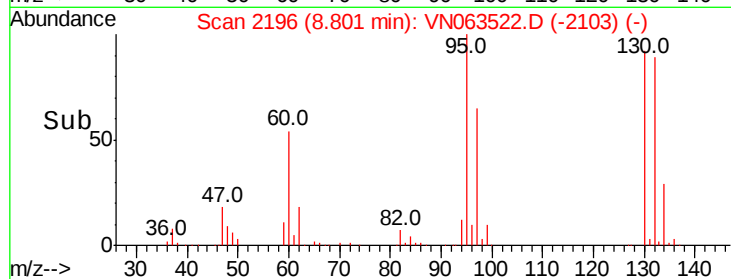
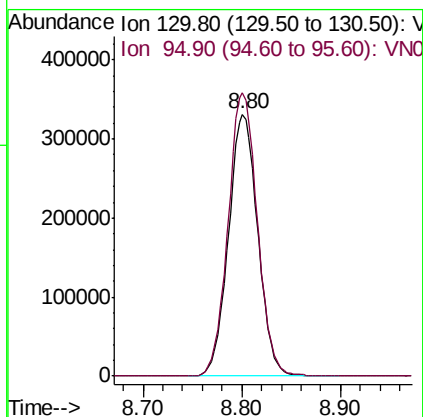
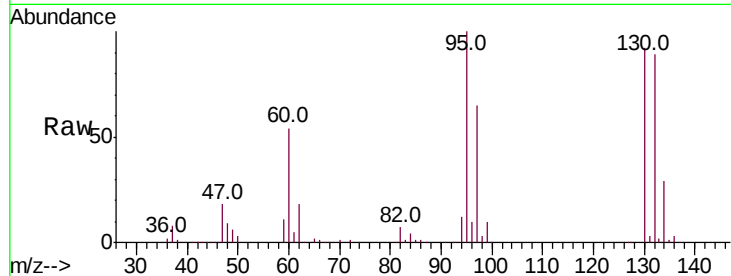




#44
 Trichloroethene
 Concen: 233.023 ug/l
 RT: 8.80 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN063522.D
 Acq: 22 Sep 2020 6:53

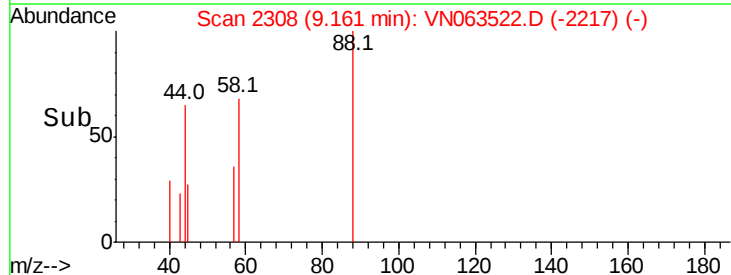
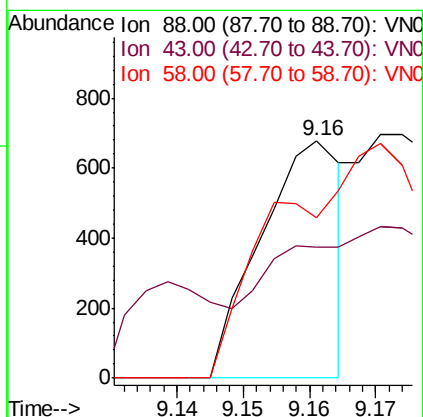
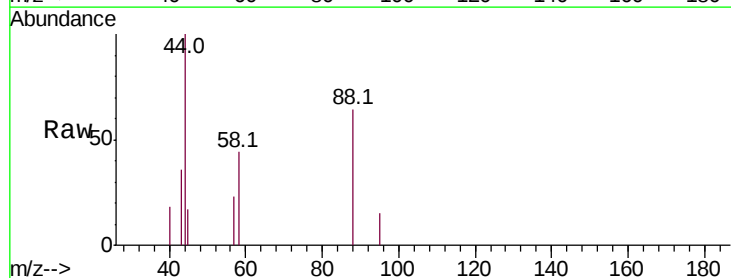
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20200916

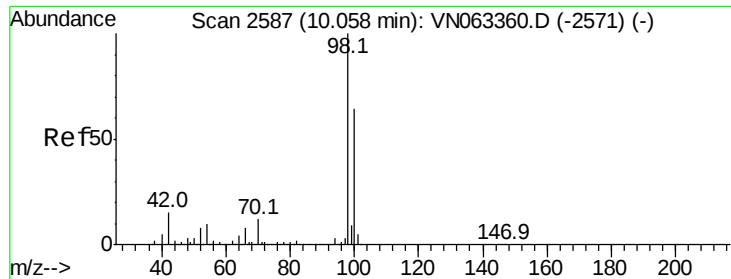
Tot Ion:130 Resp: 686923
 Ion Ratio Lower Upper
 130 100
 95 108.2 0.0 217.4



#49
 1,4-Dioxane
 Concen: 10.934 ug/l
 RT: 9.16 min Scan# 2308
 Delta R.T. -0.01 min
 Lab File: VN063522.D
 Acq: 22 Sep 2020 6:53

Tgt Ion: 88 Resp: 576
 Ion Ratio Lower Upper
 88 100
 43 101.2 32.6 49.0#
 58 200.9 60.0 90.0#





#50

Toluene-d8

Concen: 49.127 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

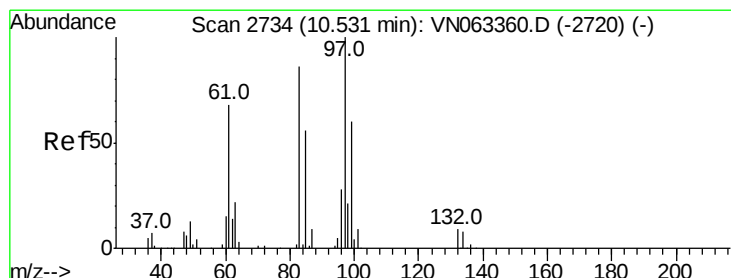
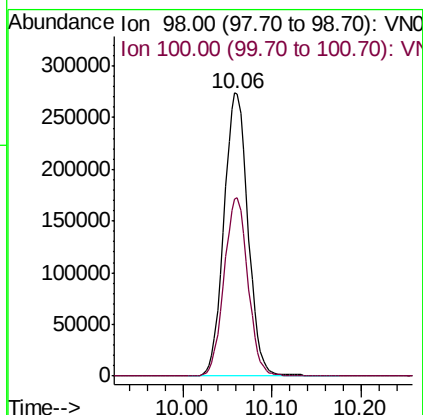
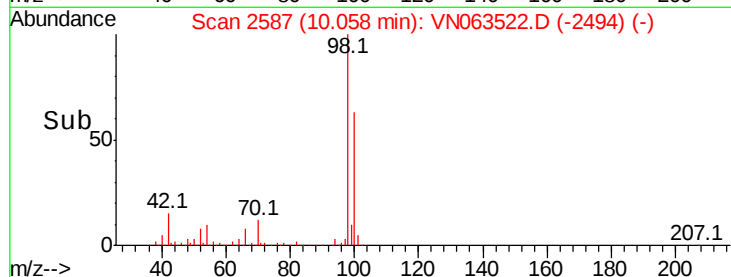
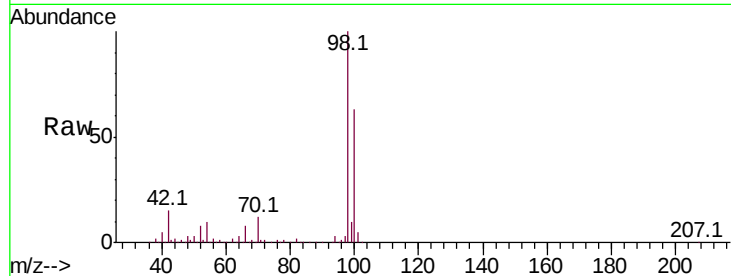
RE125D1-20200916

Tot Ion: 98 Resp: 511075

Ion Ratio Lower Upper

98 100

100 62.6 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.213 ug/l

RT: 10.54 min Scan# 2736

Delta R.T. 0.01 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Tgt Ion: 97 Resp: 618

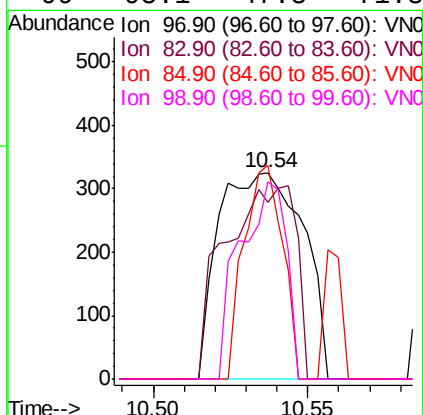
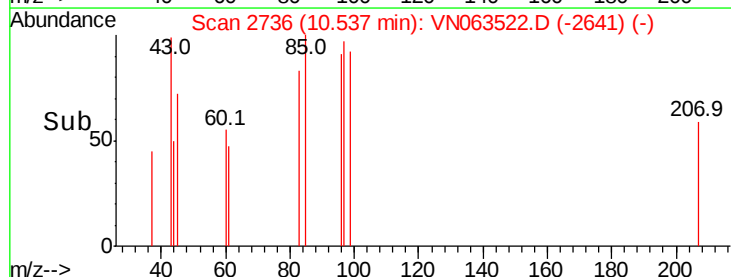
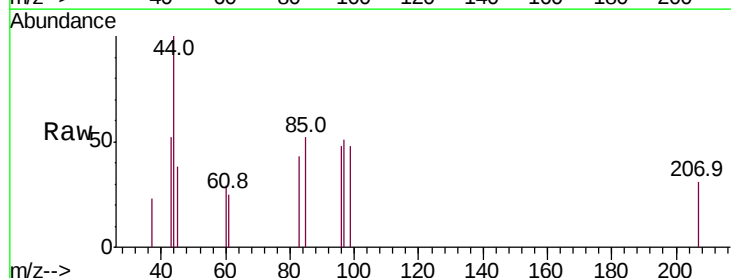
Ion Ratio Lower Upper

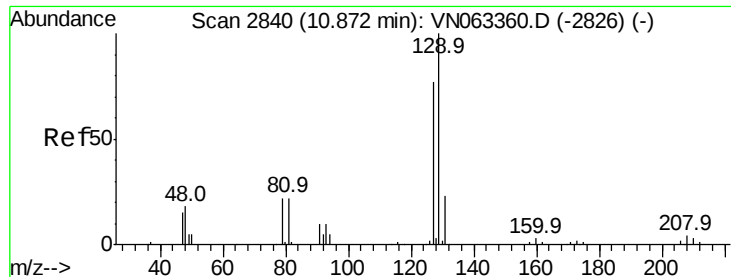
97 100

83 85.6 68.9 103.3

85 103.4 44.8 67.2#

99 95.1 47.8 71.8#





#60

Dibromochloromethane

Concen: 7.643 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

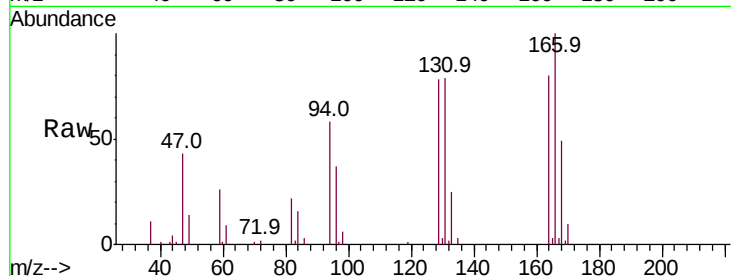
RE125D1-20200916

Tot Ion:129 Resp: 25063

Ion Ratio Lower Upper

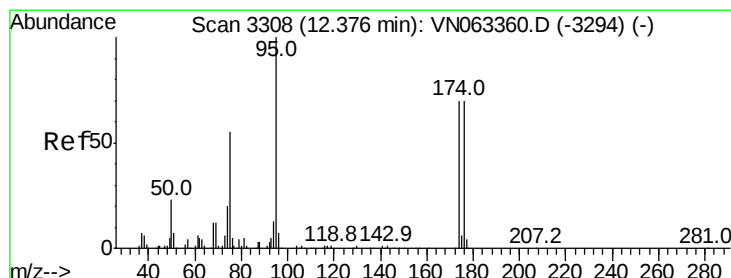
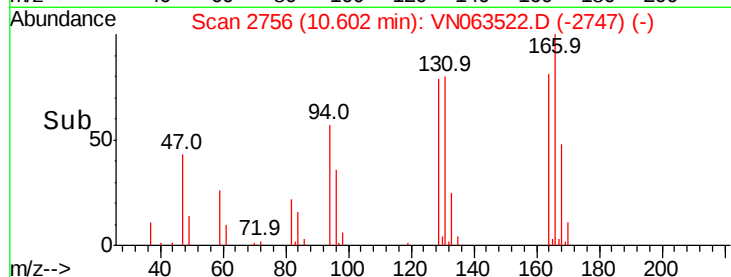
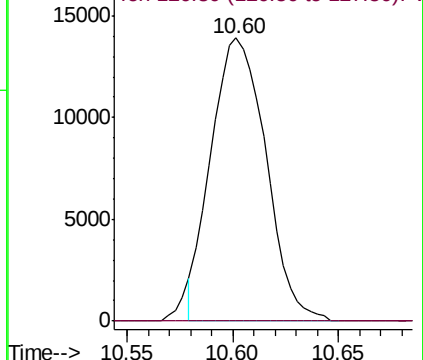
129 100

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: 53.632 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

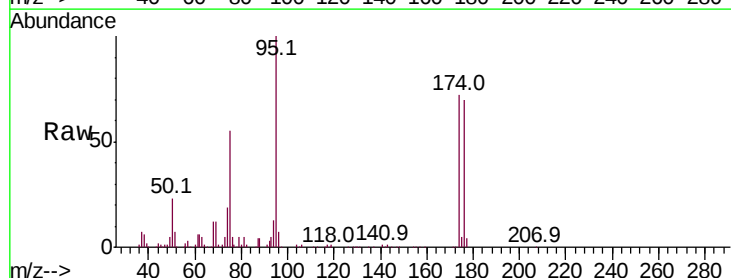
Tgt Ion: 95 Resp: 204529

Ion Ratio Lower Upper

95 100

174 70.1 0.0 140.8

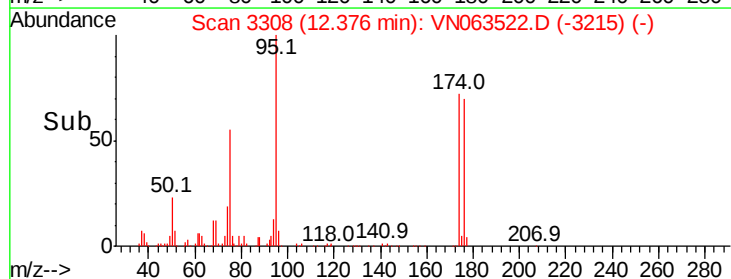
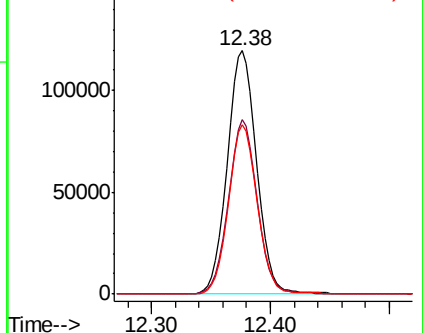
176 68.1 0.0 137.6

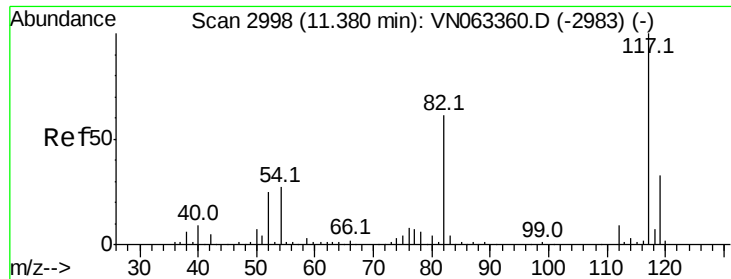


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

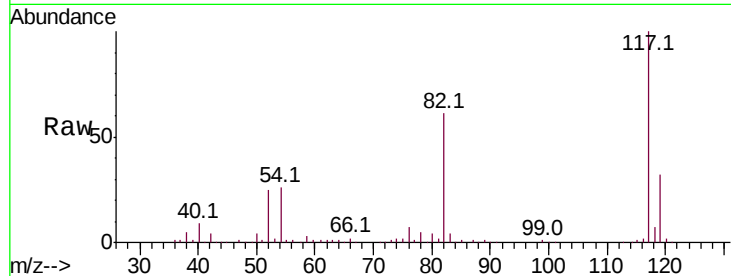




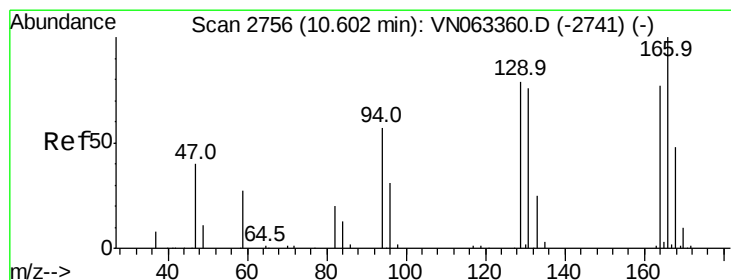
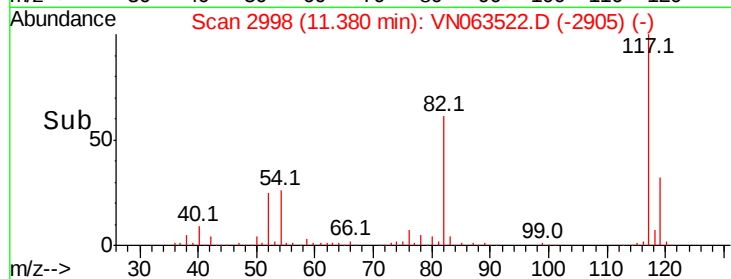
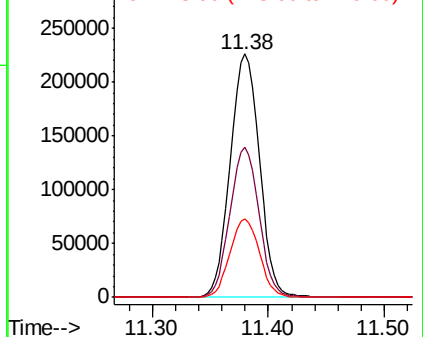
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063522.D
Acq: 22 Sep 2020 6:53

Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20200916

Tot Ion:117 Resp: 394774
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 32.3 26.2 39.4

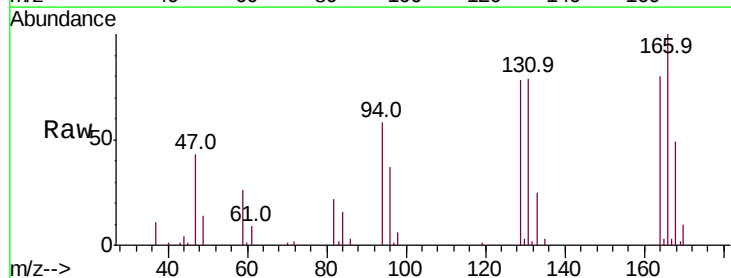


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

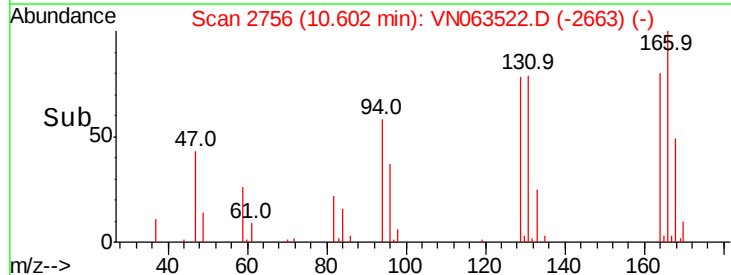
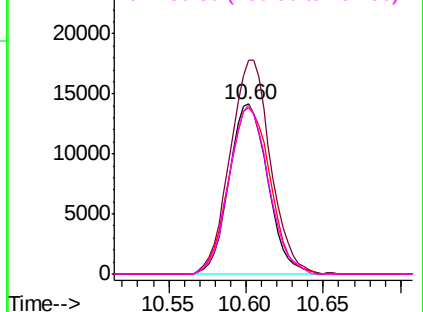


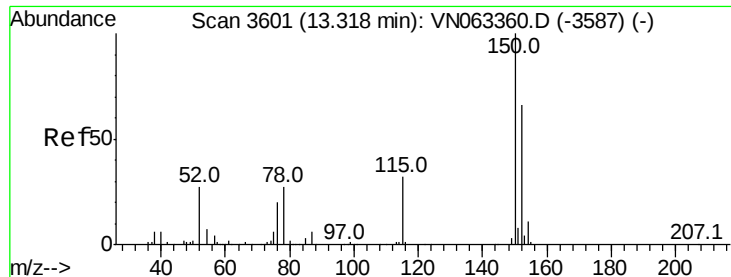
#64
Tetrachloroethene
Concen: 9.141 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VN063522.D
Acq: 22 Sep 2020 6:53

Tgt Ion:164 Resp: 24571
Ion Ratio Lower Upper
164 100
166 125.3 103.4 155.0
129 98.2 81.8 122.6
131 99.1 78.2 117.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

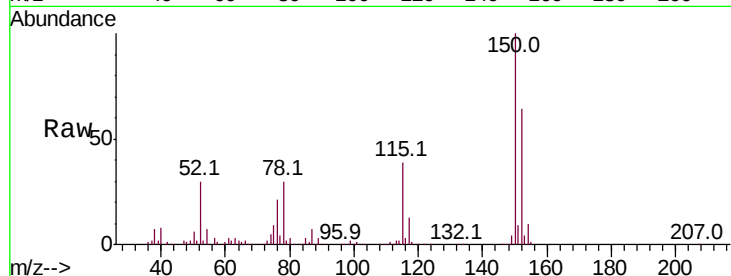
Tot Ion:152 Resp: 172882

Ion Ratio Lower Upper

152 100

115 62.0 32.2 96.6

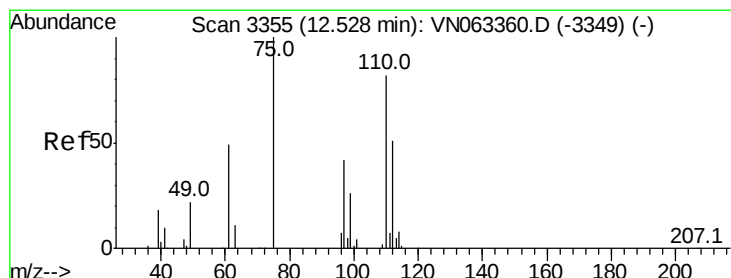
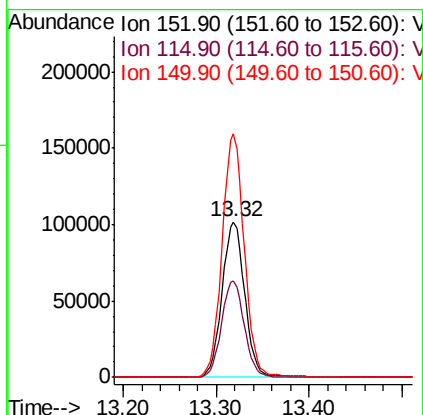
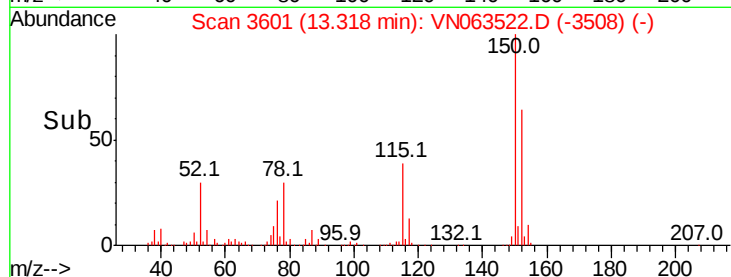
150 153.1 0.0 343.4



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: VN063522.D

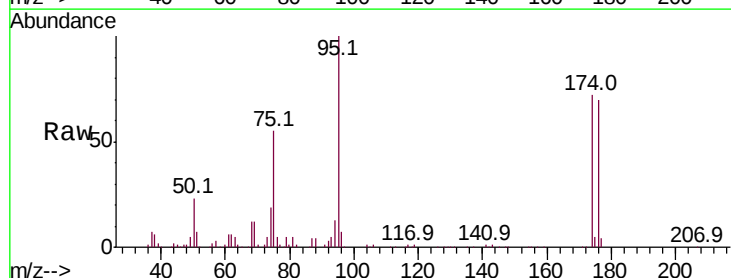
Acq: 22 Sep 2020 6:53

Tgt Ion: 75 Resp: 113111

Ion Ratio Lower Upper

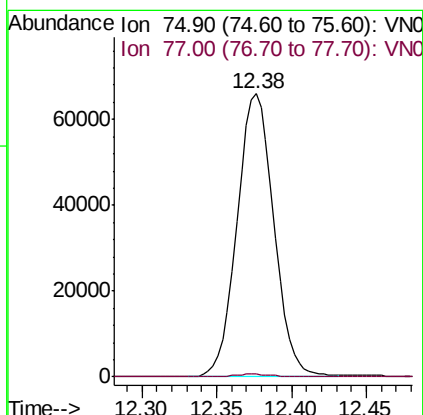
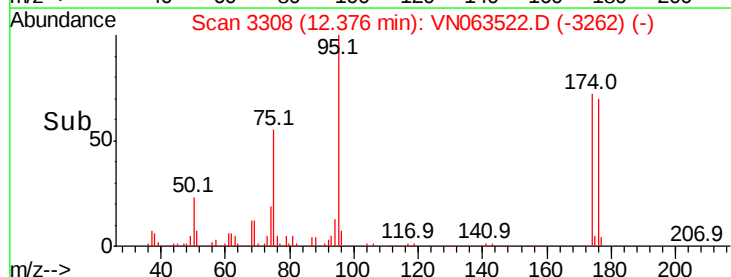
75 100

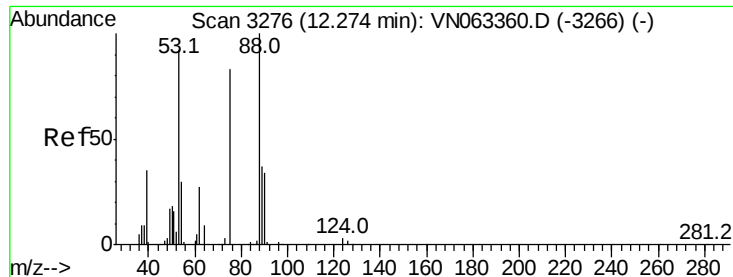
77 0.8 0.0 0.0#



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: 72.471 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063522.D

Acq: 22 Sep 2020 6:53

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20200916

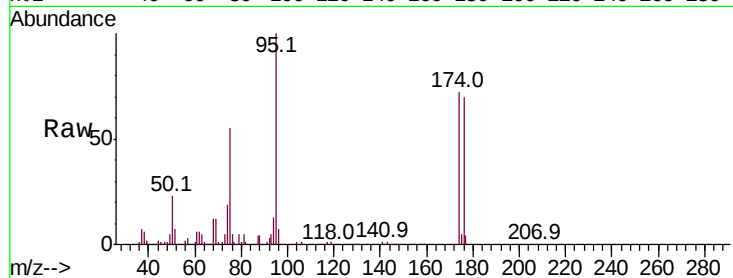
Tot Ion: 75 Resp: 113111

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

