

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092120\
 Data File : VN063516.D
 Acq On : 22 Sep 2020 4:29
 Operator : JC/MD
 Sample : L4082-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915

Quant Time: Sep 22 05:00:56 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	221581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414625	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	410358	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	176641	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	183456	48.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.28%	
35) Dibromofluoromethane	7.55	113	132911	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	
50) Toluene-d8	10.06	98	527161	48.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.68%	
62) 4-Bromofluorobenzene	12.38	95	208884	52.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.58%	

Target Compounds

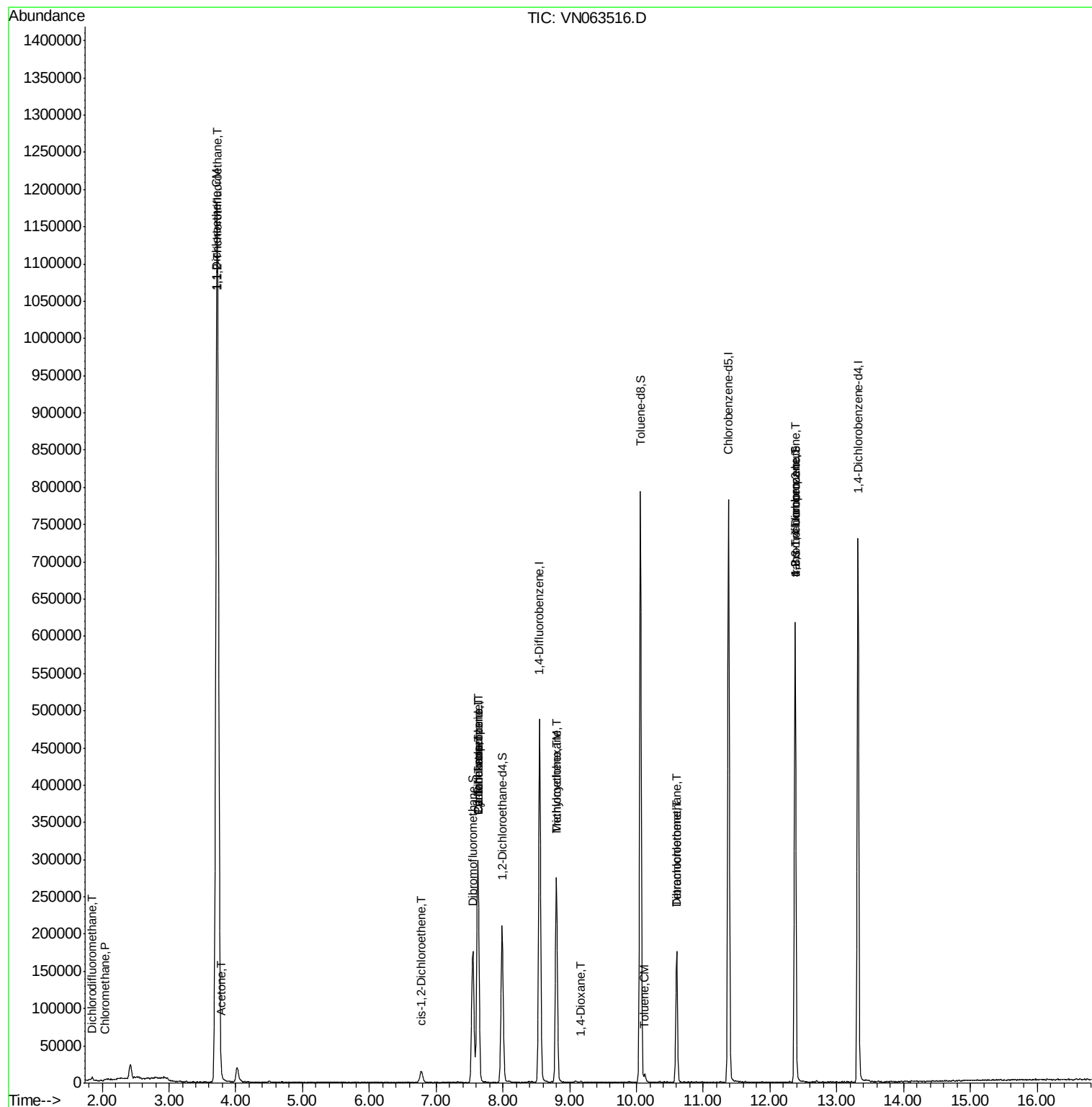
						Qvalue
2) Dichlorodifluoromethane	1.83	85	856	0.341	ug/l	93
3) Chloromethane	2.03	50	731	0.220	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.72	101	724994	293.672	ug/l	99
12) 1,1-Dichloroethene	3.71	96	4610	1.844	ug/l #	58
16) Acetone	3.79	43	950	0.784	ug/l #	49
27) cis-1,2-Dichloroethene	6.78	96	3788	1.208	ug/l	77
31) Cyclohexane	7.63	56	6405	1.230	ug/l #	31
36) 1,1-Dichloropropene	7.63	75	21388	4.842	ug/l #	50
38) Carbon Tetrachloride	7.62	117	25496	5.654	ug/l #	18
39) Methylcyclohexane	8.79	83	1699	0.354	ug/l #	1
44) Trichloroethene	8.80	130	92555	30.263	ug/l	98
49) 1,4-Dioxane	9.17	88	382	6.989	ug/l	90
52) Toluene	10.12	92	3184	0.420	ug/l	100
60) Dibromochloromethane	10.60	129	36282	10.665	ug/l #	10
64) Tetrachloroethene	10.60	164	36756	13.154	ug/l	97
76) 1,2,3-Trichloropropane	12.38	75	113964	26.066	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113964	71.463	ug/l #	7

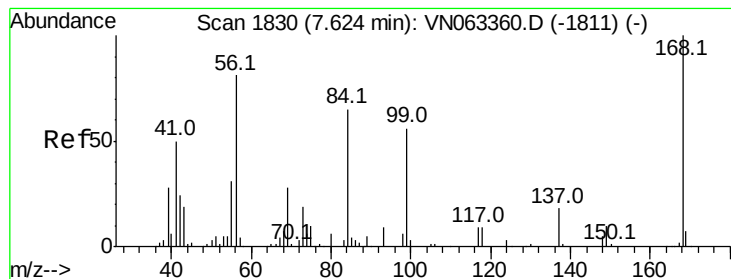
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

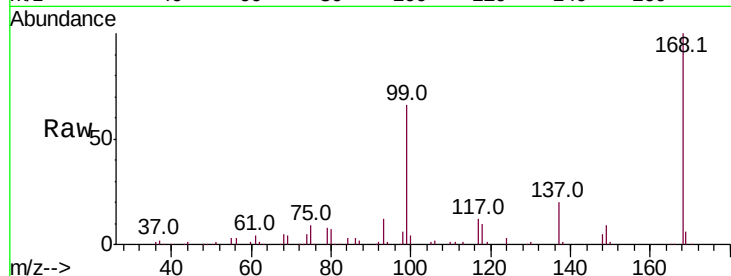
RE134D4-20200915

Tot Ion:168 Resp: 221581

Ion Ratio Lower Upper

168 100

99 66.2 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

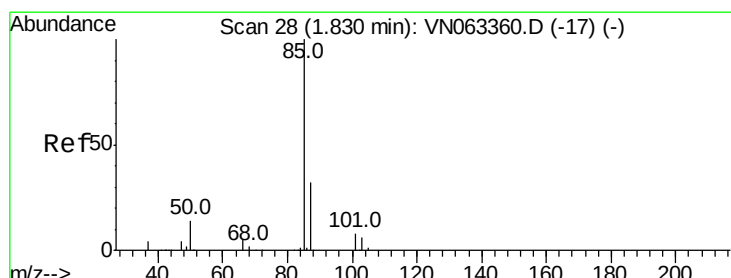
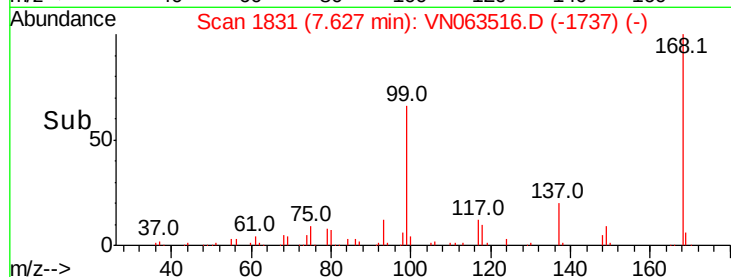
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.341 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063516.D

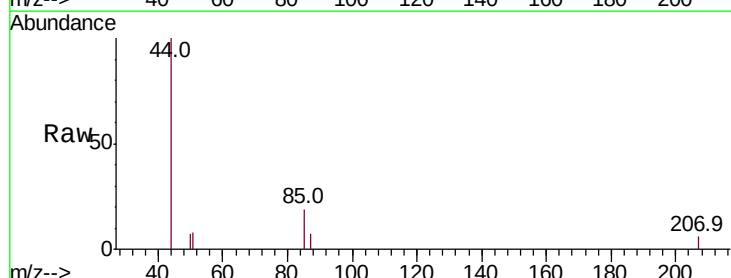
Acq: 22 Sep 2020 4:29

Tgt Ion: 85 Resp: 856

Ion Ratio Lower Upper

85 100

87 35.4 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

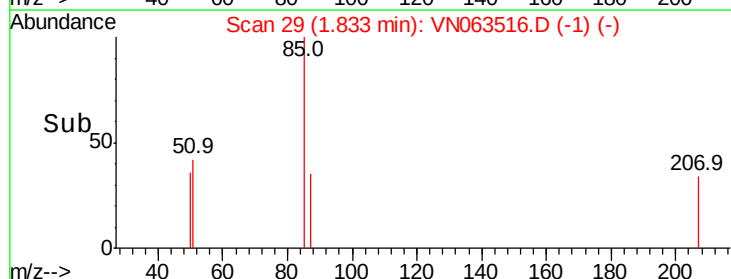
600

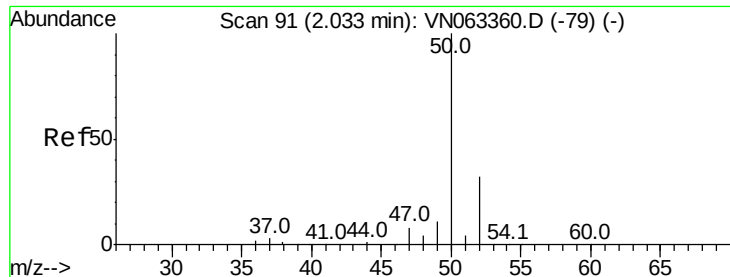
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.220 ug/l

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

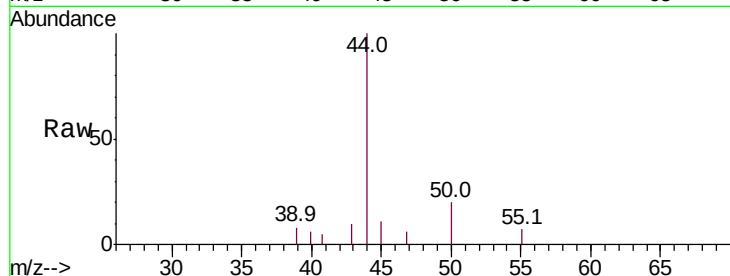
RE134D4-20200915

Tot Ion: 50 Resp: 731

Ion Ratio Lower Upper

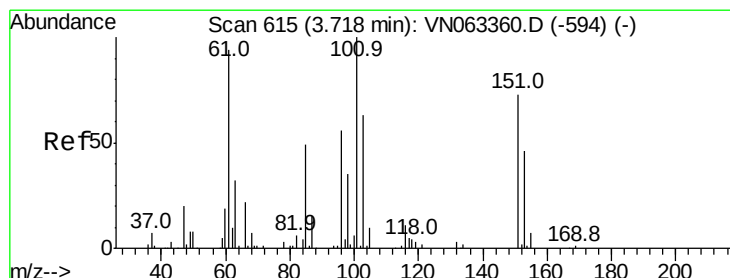
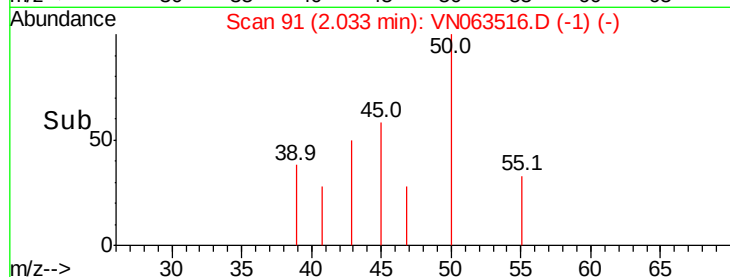
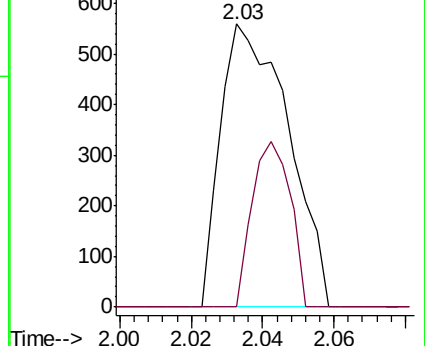
50 100

52 0.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 293.672 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

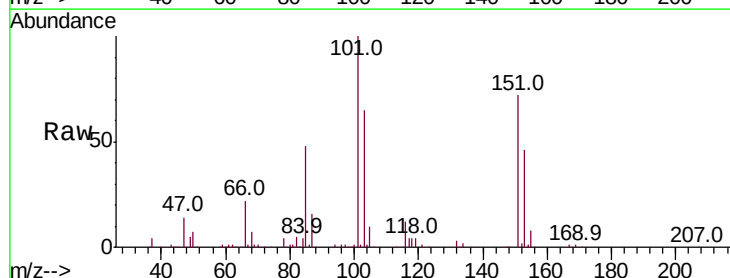
Tgt Ion: 101 Resp: 724994

Ion Ratio Lower Upper

101 100

85 48.1 37.7 56.5

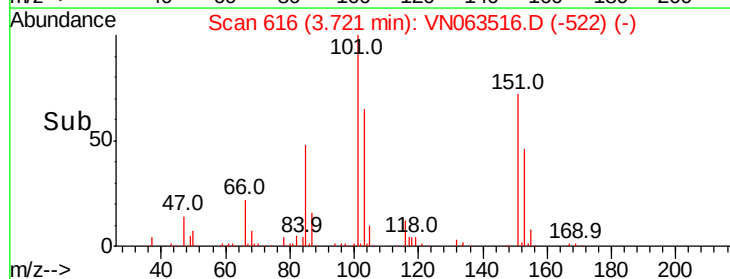
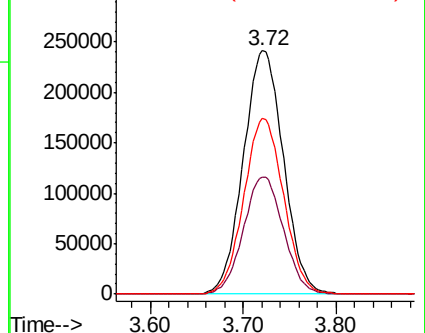
151 71.8 57.7 86.5

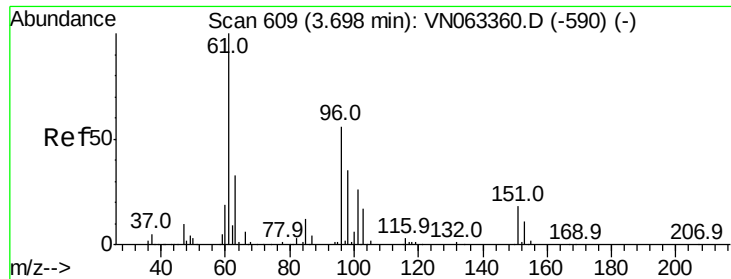


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

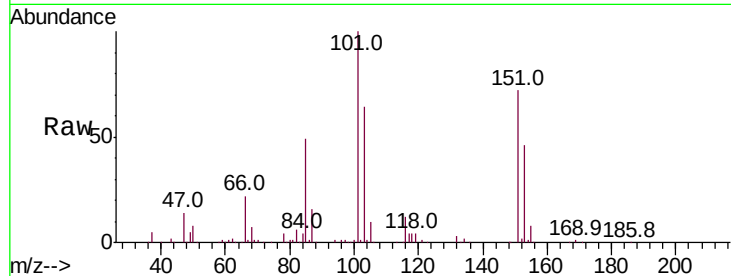




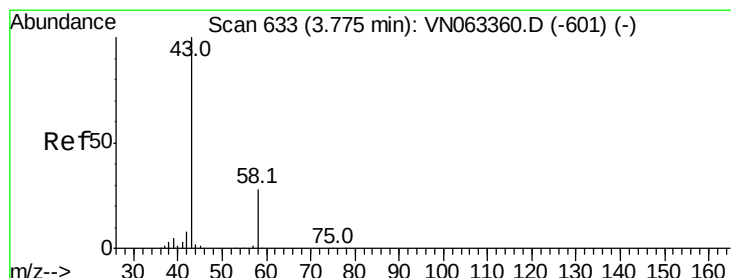
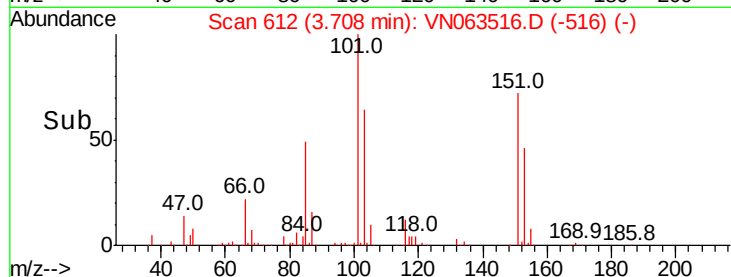
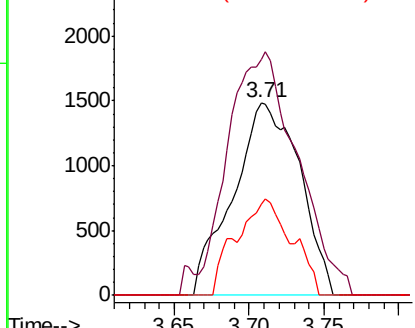
#12
 1,1-Dichloroethene
 Concen: 1.844 ug/l
 RT: 3.71 min Scan# 612
 Delta R.T. 0.01 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915

Tot Ion: 96 Resp: 4610
 Ion Ratio Lower Upper
 96 100
 61 108.7 143.4 215.2#
 98 47.2 50.6 76.0#

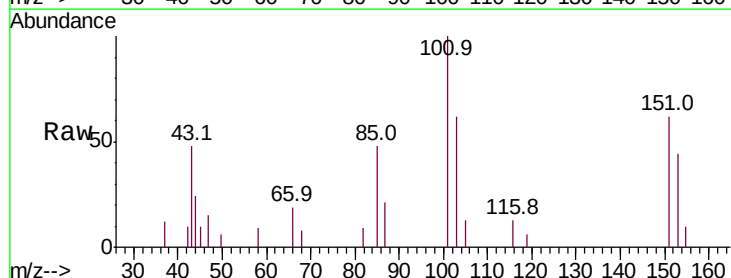


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

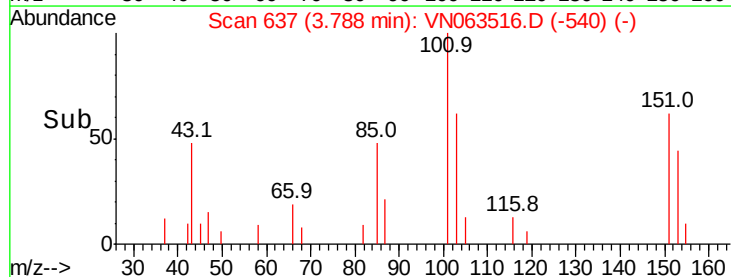
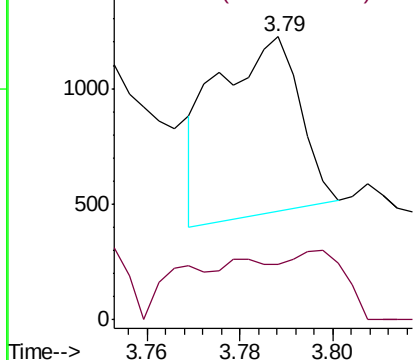


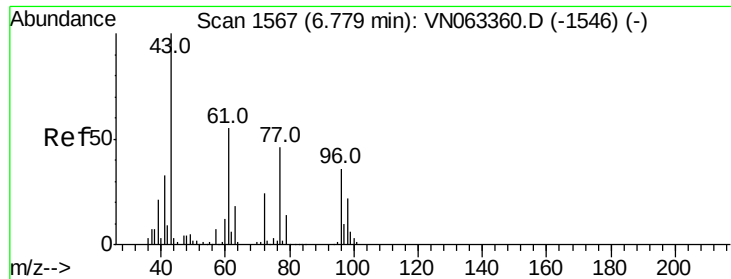
#16
 Acetone
 Concen: 0.784 ug/l
 RT: 3.79 min Scan# 637
 Delta R.T. 0.01 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

Tgt Ion: 43 Resp: 950
 Ion Ratio Lower Upper
 43 100
 58 1.0 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

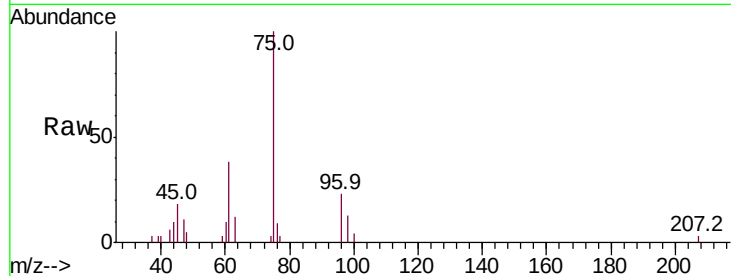




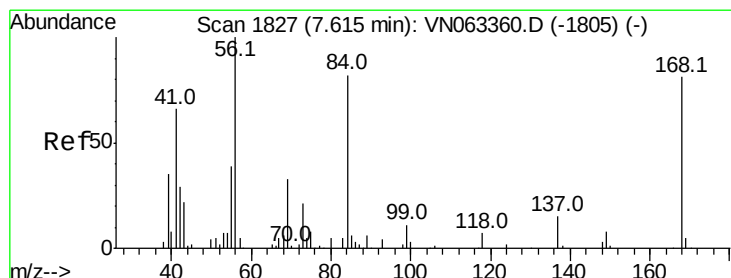
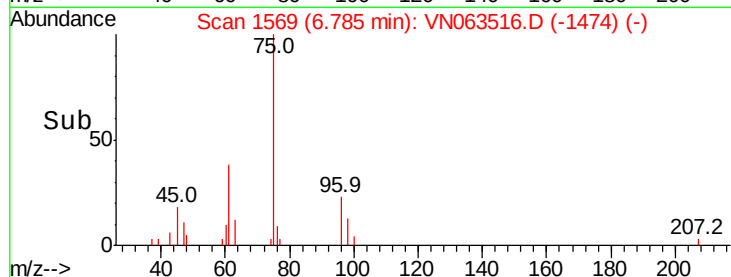
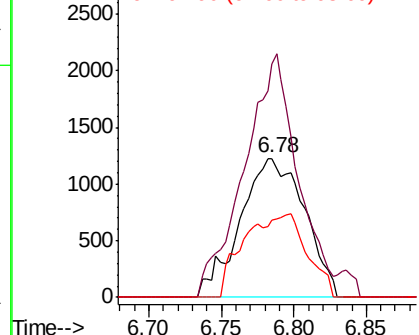
#27
 cis-1,2-Dichloroethene
 Concen: 1.208 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915

Tot Ion: 96 Resp: 3788
 Ion Ratio Lower Upper
 96 100
 61 145.4 0.0 319.6
 98 22.6 0.0 127.8

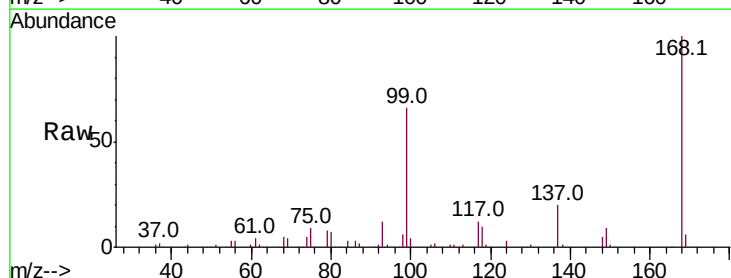


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

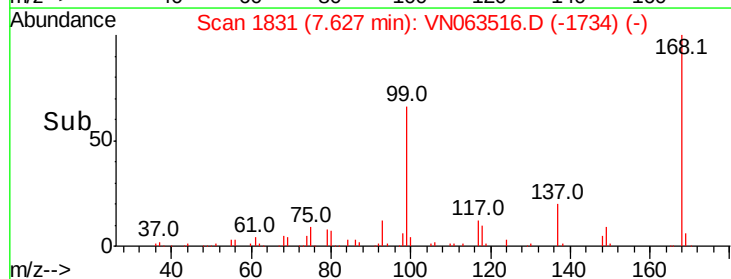
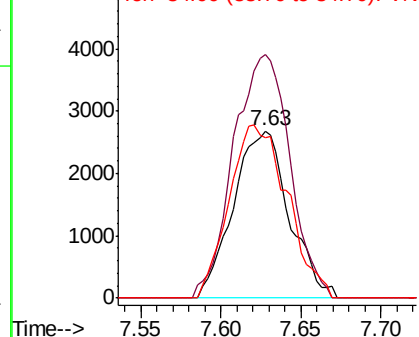


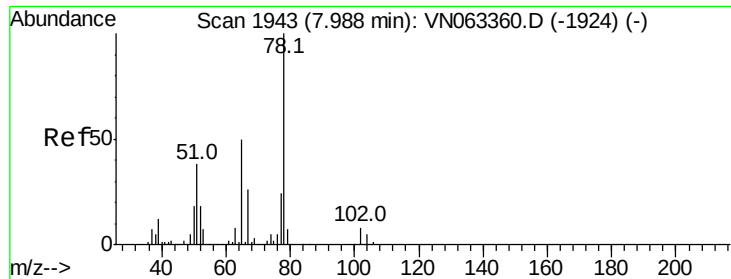
#31
 Cyclohexane
 Concen: 1.230 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. 0.01 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

Tgt Ion: 56 Resp: 6405
 Ion Ratio Lower Upper
 56 100
 69 145.5 26.1 39.1#
 84 95.9 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

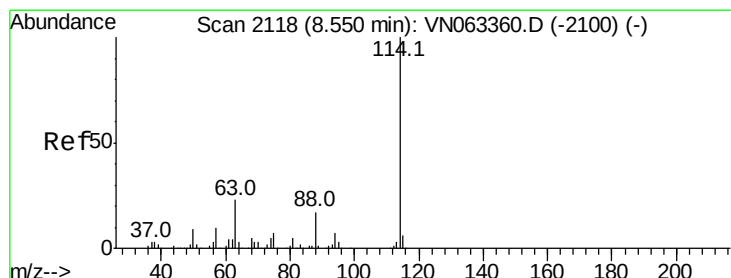
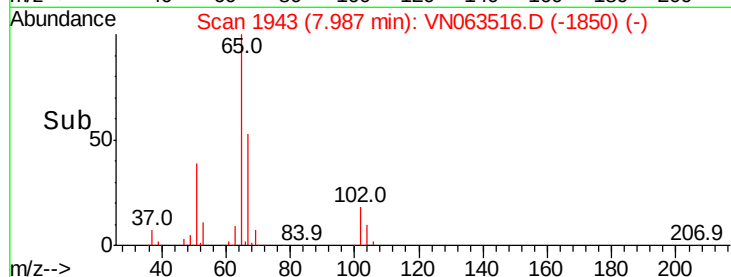
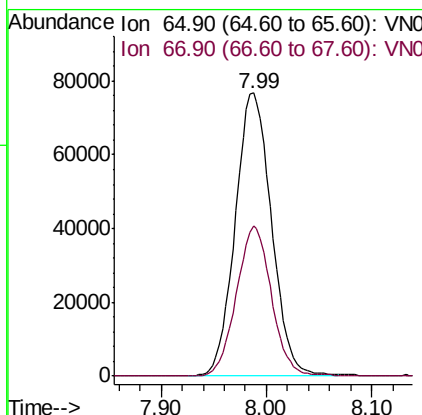
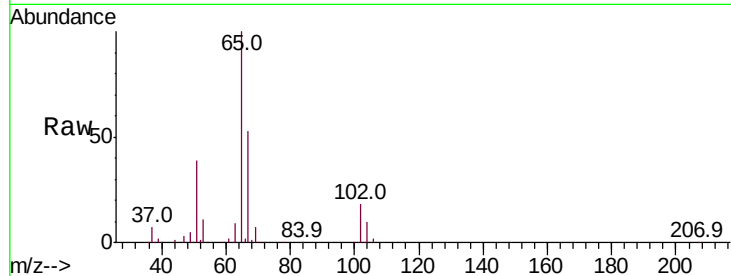




#33
 1,2-Dichloroethane-d4
 Concen: 48.638 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

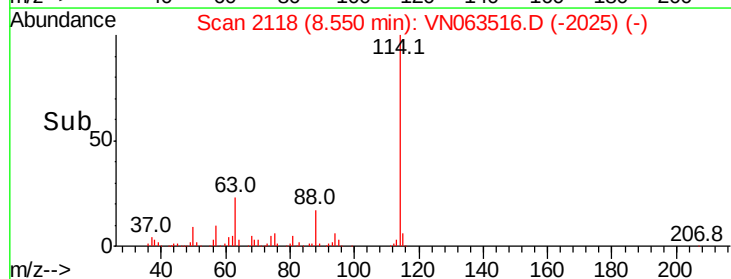
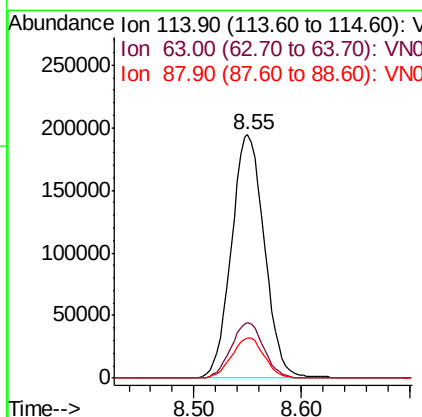
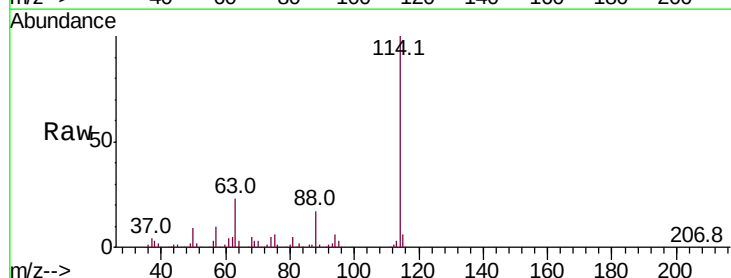
Instrument :
 MSVOA_N
 ClientSampleId :
 RE134D4-20200915

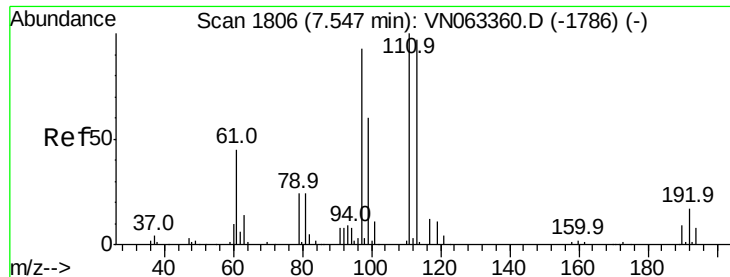
Tot Ion: 65 Resp: 183456
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063516.D
 Acq: 22 Sep 2020 4:29

Tgt Ion: 114 Resp: 414625
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.4
 88 16.7 0.0 33.2





#35

Dibromofluoromethane

Concen: 46.305 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915

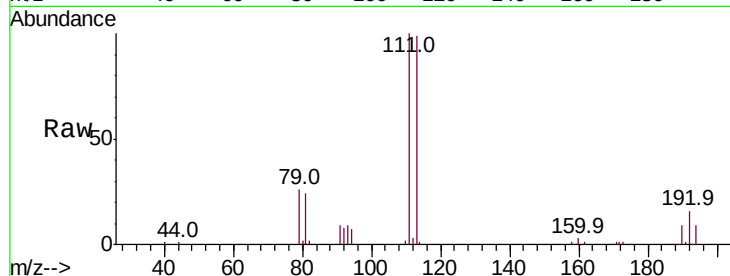
Tot Ion:113 Resp: 132911

Ion Ratio Lower Upper

113 100

111 103.7 82.9 124.3

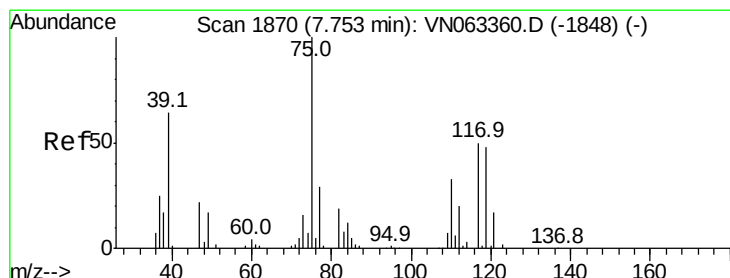
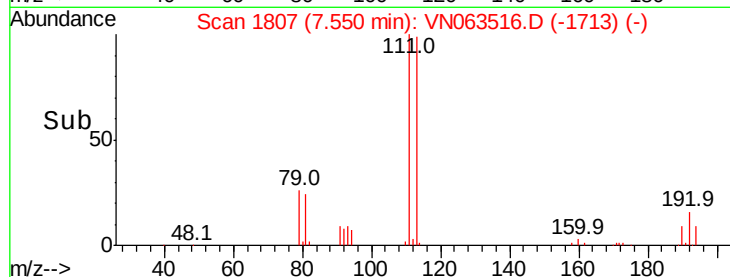
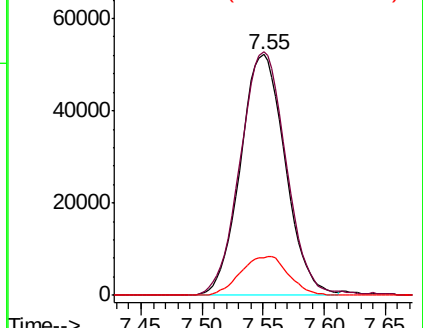
192 17.3 13.9 20.9



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: 4.842 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

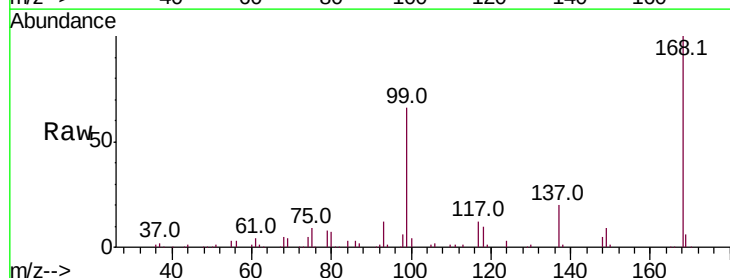
Tgt Ion: 75 Resp: 21388

Ion Ratio Lower Upper

75 100

110 7.5 16.5 49.5#

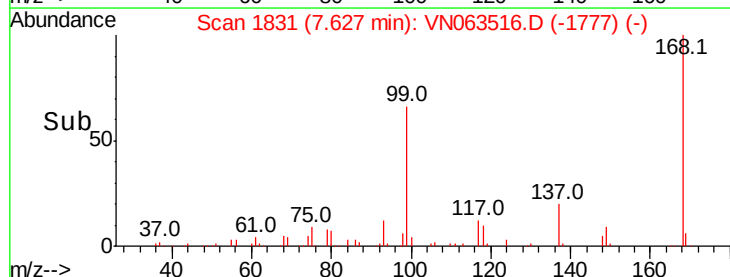
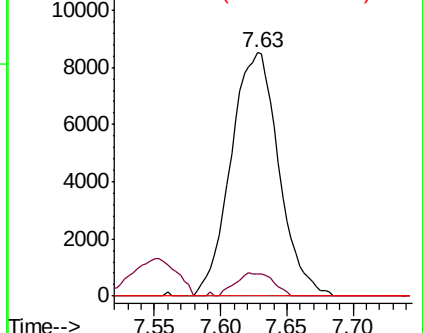
77 0.0 24.6 36.8#

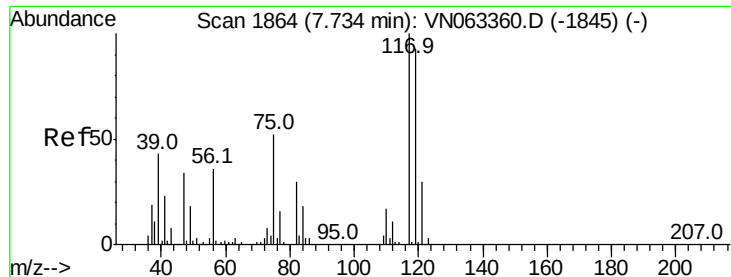


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.654 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915

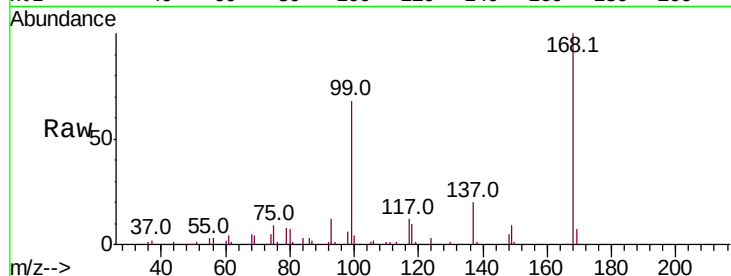
Tot Ion:117 Resp: 25496

Ion Ratio Lower Upper

117 100

119 5.6 74.5 111.7#

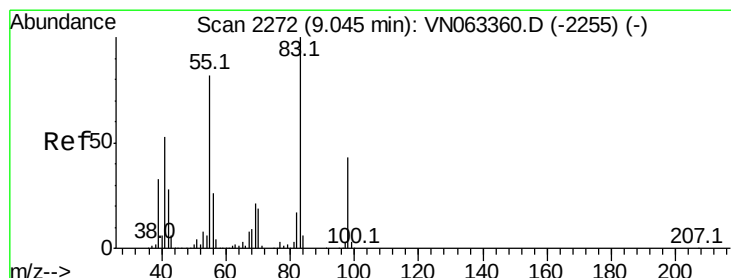
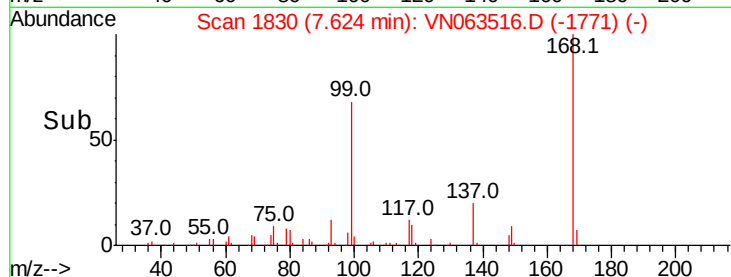
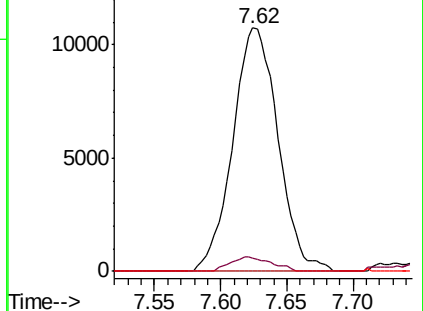
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.354 ug/l

RT: 8.79 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

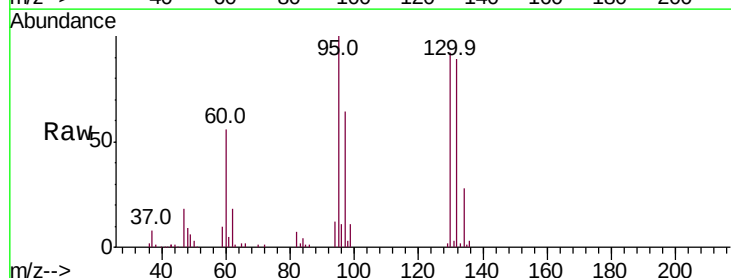
Tgt Ion: 83 Resp: 1699

Ion Ratio Lower Upper

83 100

55 0.0 65.5 98.3#

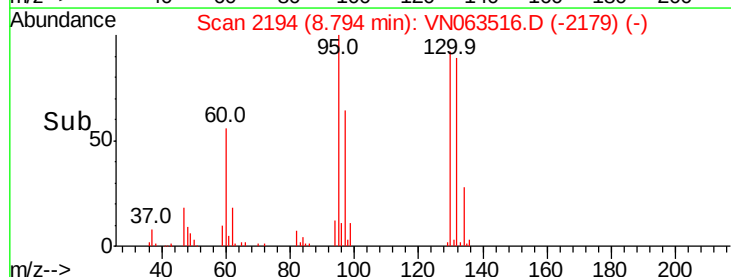
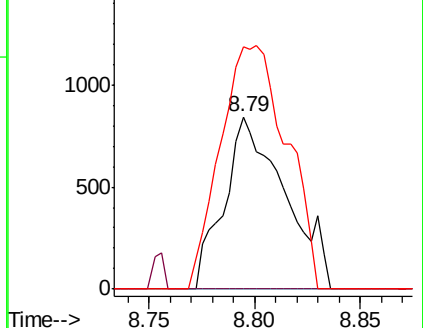
98 141.0 34.2 51.4#

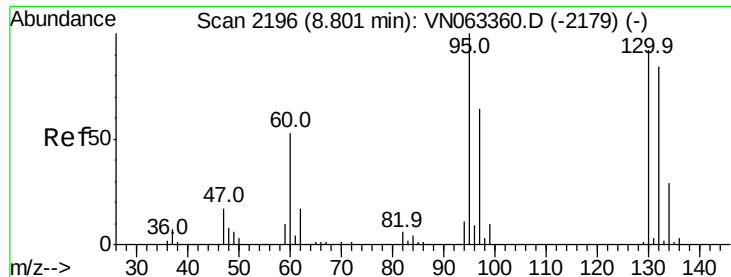


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 30.263 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

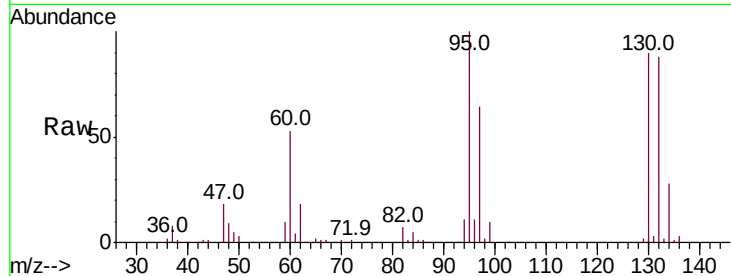
RE134D4-20200915

Tot Ion:130 Resp: 92555

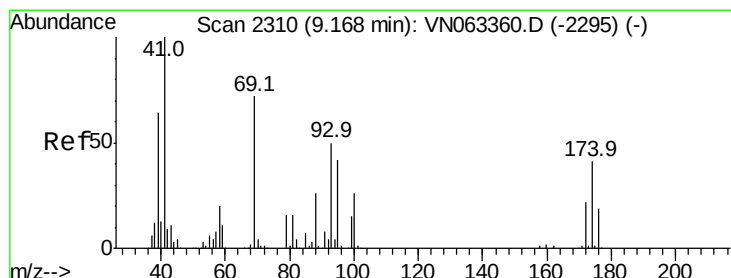
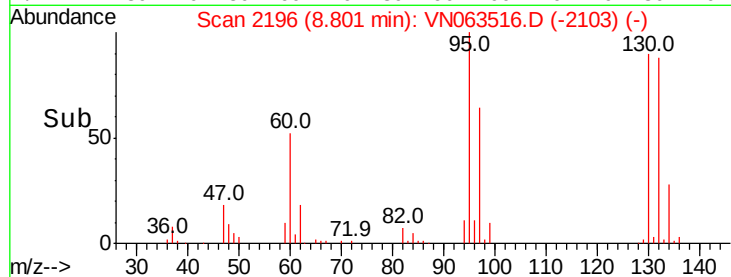
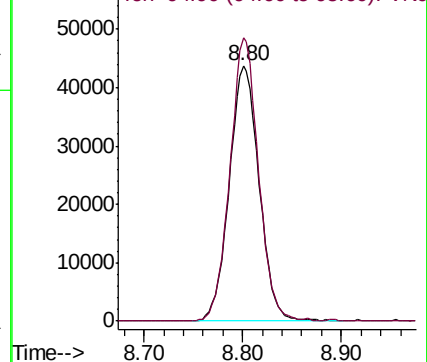
Ion Ratio Lower Upper

130 100

95 110.9 0.0 217.4



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



#49

1,4-Dioxane

Concen: 6.989 ug/l

RT: 9.17 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

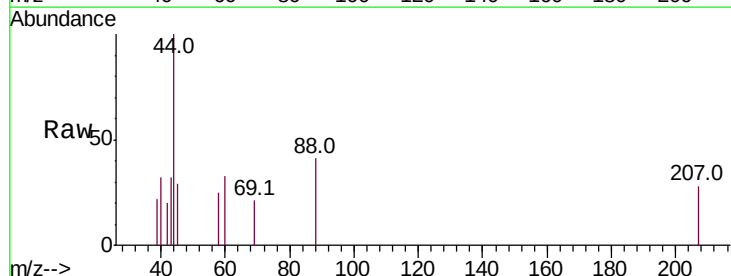
Tgt Ion: 88 Resp: 382

Ion Ratio Lower Upper

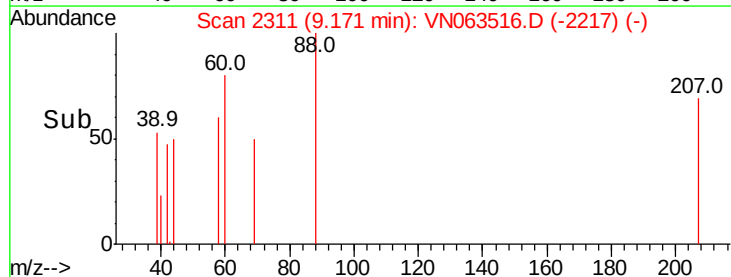
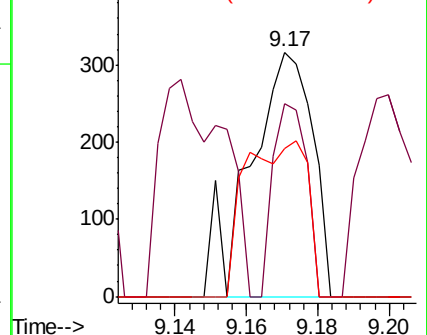
88 100

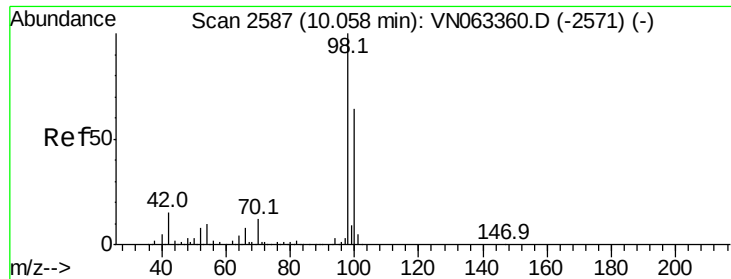
43 42.7 32.6 49.0

58 63.4 60.0 90.0



Abundance Ion 88.00 (87.70 to 88.70): VN063360.D (-2295) (-)

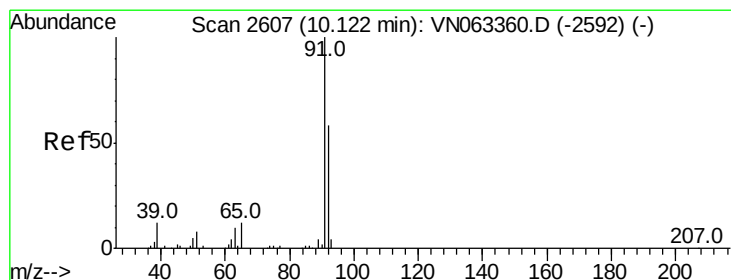
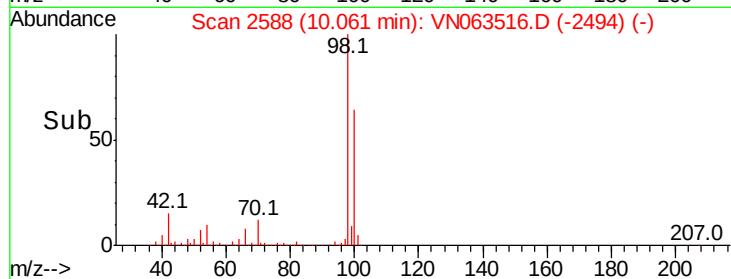
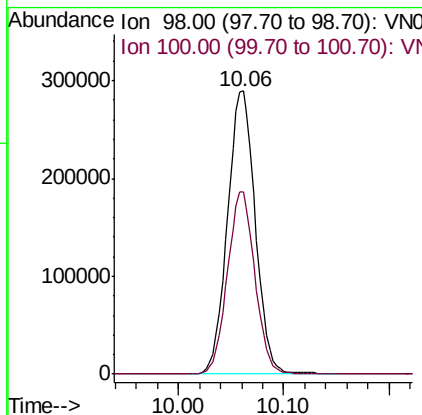
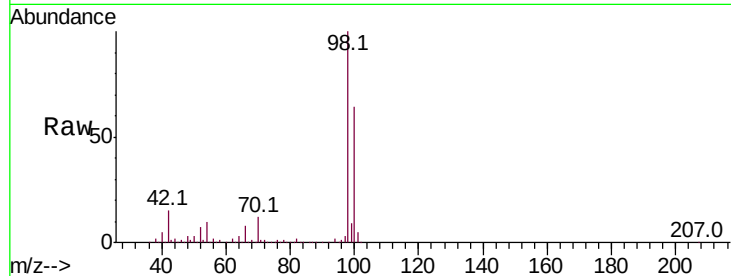




#50
Toluene-d8
Concen: 48.842 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063516.D
Acq: 22 Sep 2020 4:29

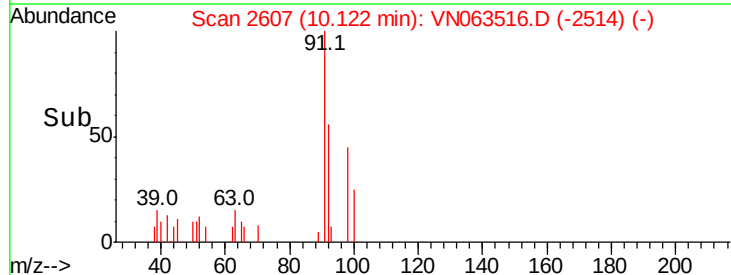
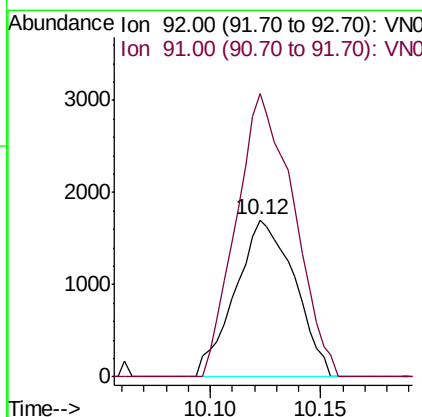
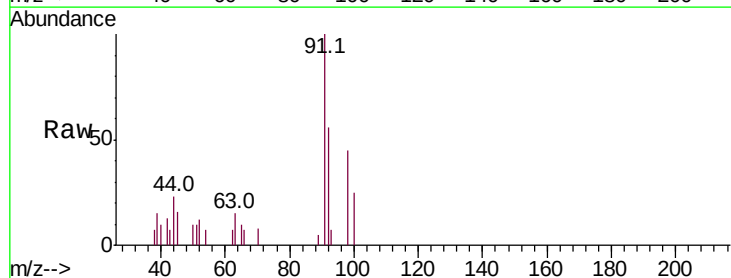
Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20200915

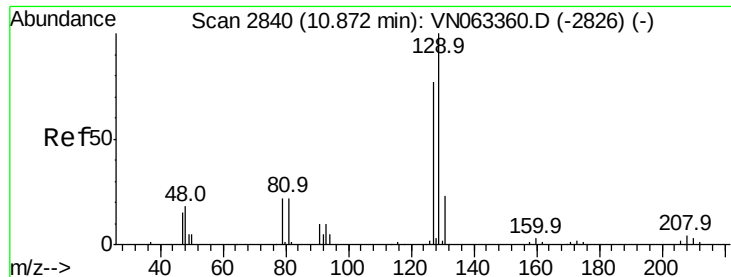
Tot Ion: 98 Resp: 527161
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



#52
Toluene
Concen: 0.420 ug/l
RT: 10.12 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN063516.D
Acq: 22 Sep 2020 4:29

Tgt Ion: 92 Resp: 3184
Ion Ratio Lower Upper
92 100
91 174.3 139.7 209.5





#60

Dibromochloromethane

Concen: 10.665 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

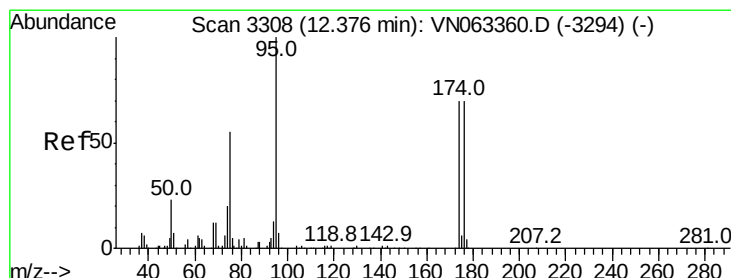
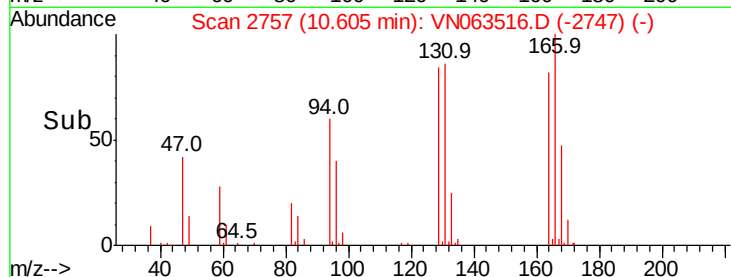
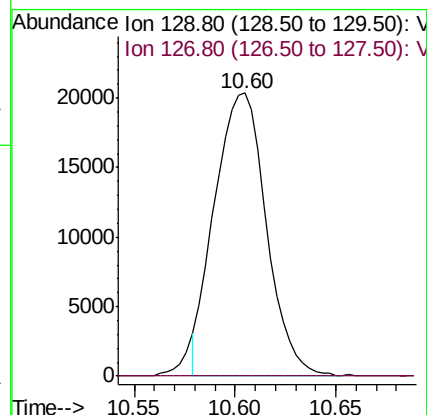
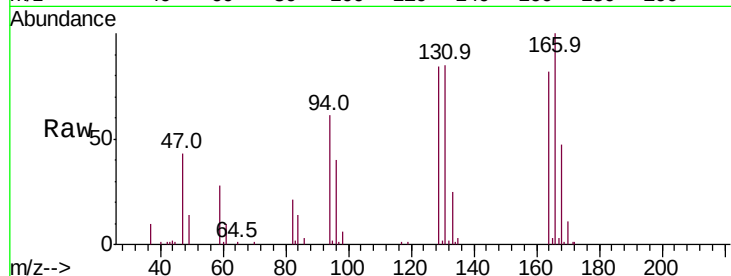
RE134D4-20200915

Tot Ion:129 Resp: 36282

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



#62

4-Bromofluorobenzene

Concen: 52.795 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

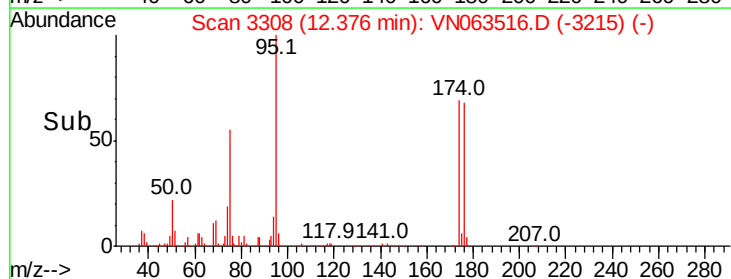
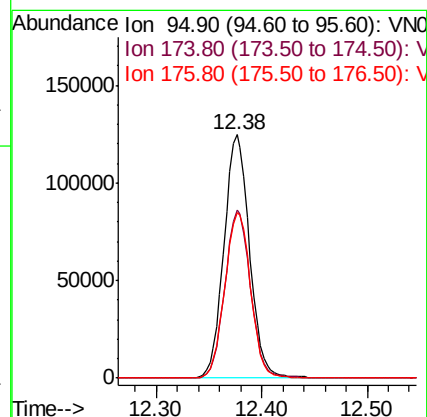
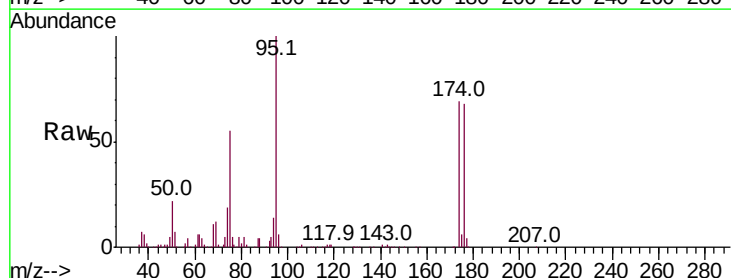
Tgt Ion: 95 Resp: 208884

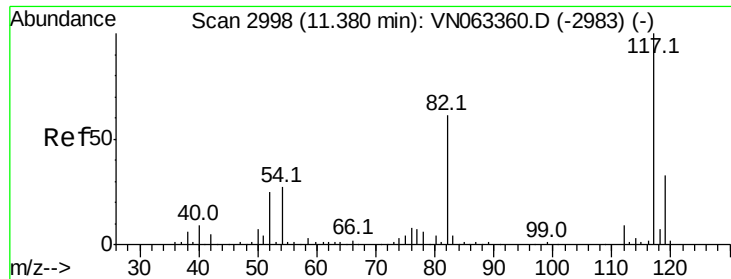
Ion Ratio Lower Upper

95 100

174 69.4 0.0 140.8

176 68.9 0.0 137.6

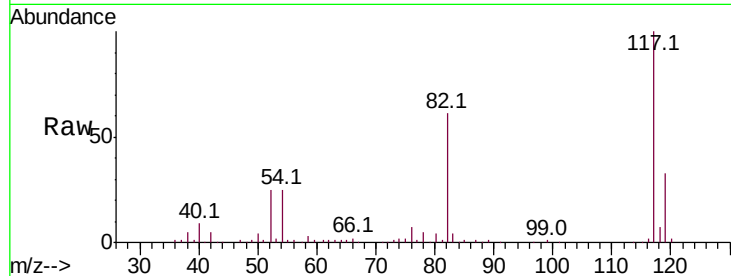




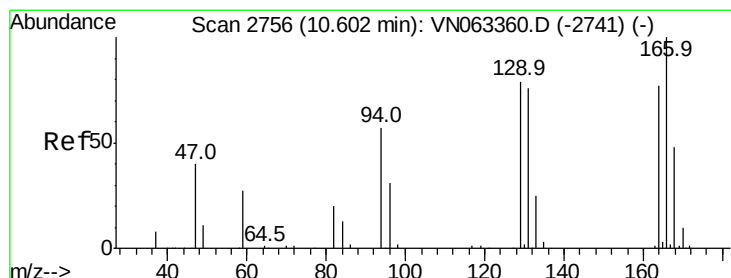
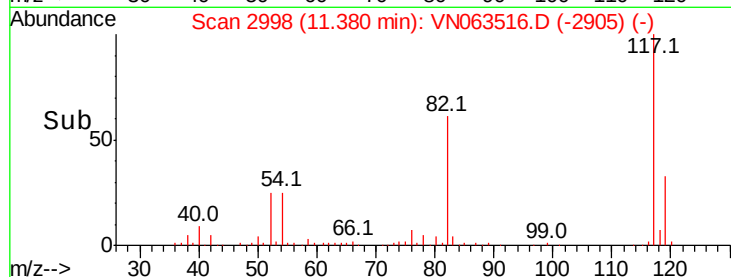
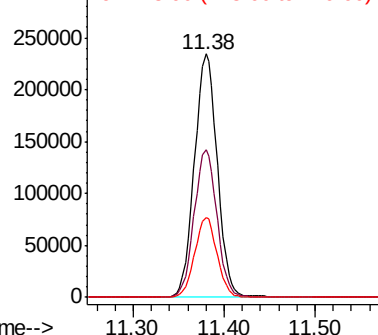
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063516.D
Acq: 22 Sep 2020 4:29

Instrument :
MSVOA_N
ClientSampleId :
RE134D4-20200915

Tot Ion:117 Resp: 410358
Ion Ratio Lower Upper
117 100
82 60.6 49.2 73.8
119 33.0 26.2 39.4



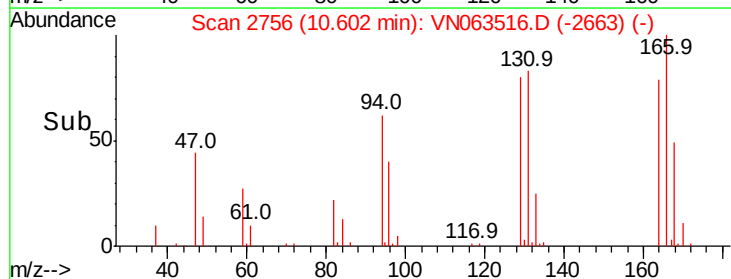
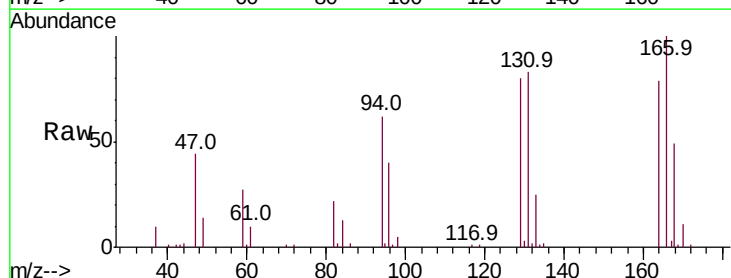
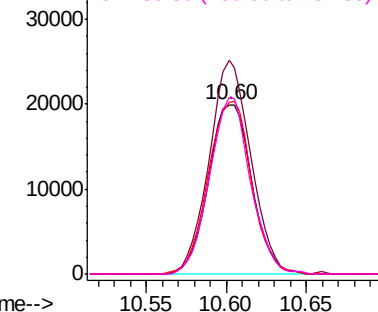
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

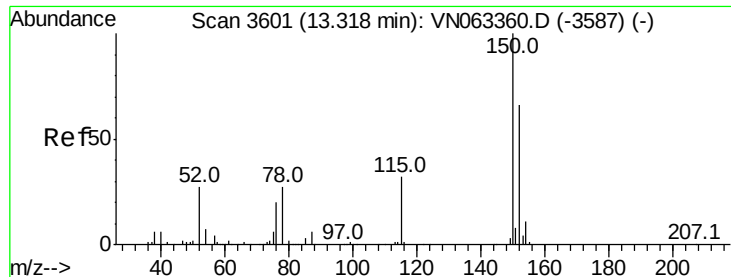


#64
Tetrachloroethene
Concen: 13.154 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VN063516.D
Acq: 22 Sep 2020 4:29

Tgt Ion:164 Resp: 36756
Ion Ratio Lower Upper
164 100
166 126.1 103.4 155.0
129 101.4 81.8 122.6
131 104.6 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: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915

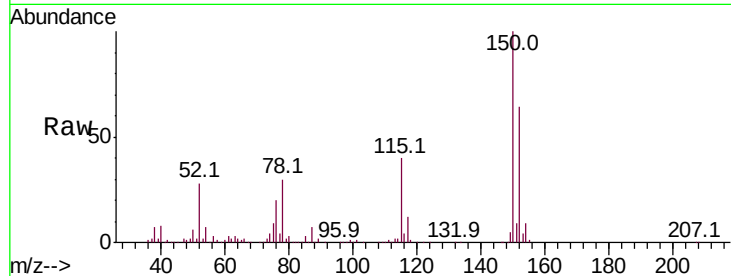
Tot Ion:152 Resp: 176641

Ion Ratio Lower Upper

152 100

115 63.9 32.2 96.6

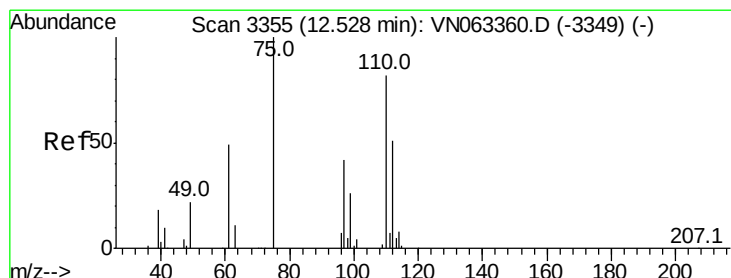
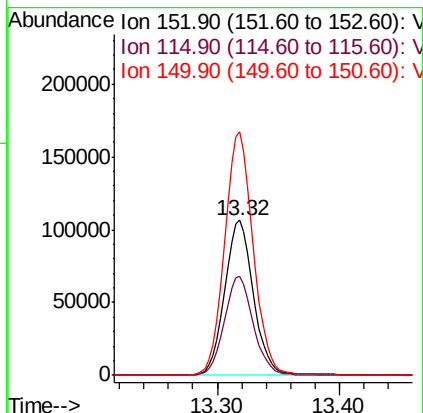
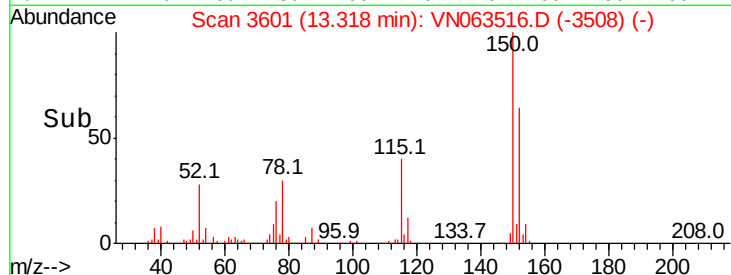
150 156.5 0.0 343.4



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: 26.066 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063516.D

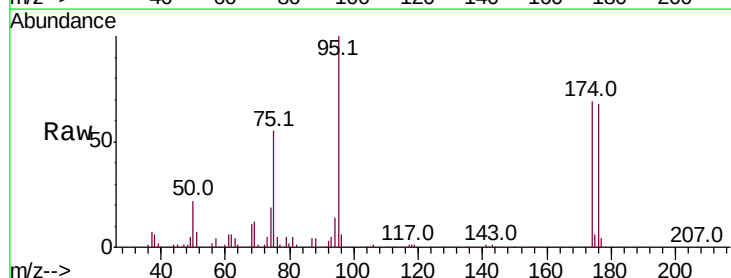
Acq: 22 Sep 2020 4:29

Tgt Ion: 75 Resp: 113964

Ion Ratio Lower Upper

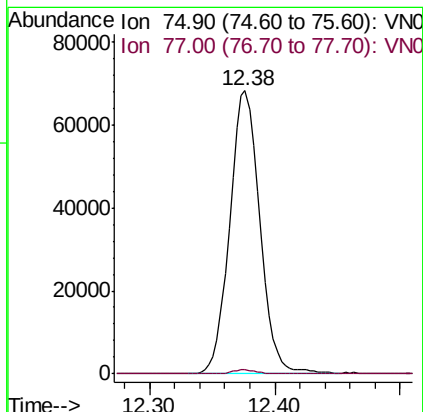
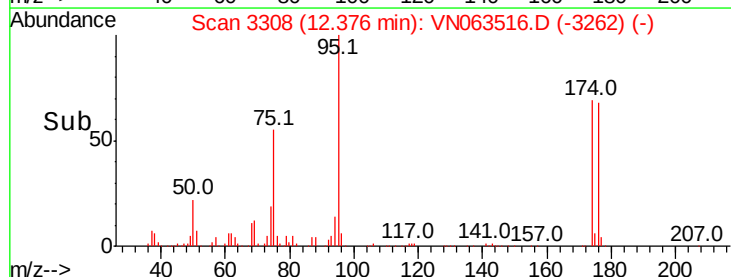
75 100

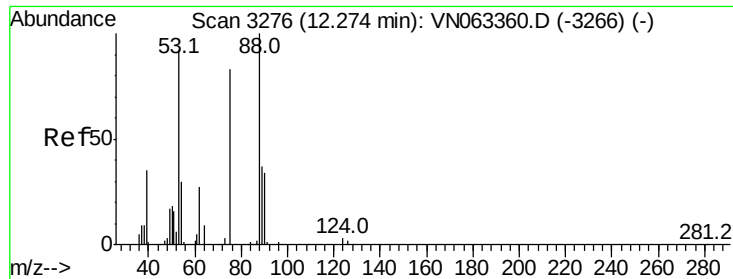
77 1.1 0.0 0.0#



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: 71.463 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063516.D

Acq: 22 Sep 2020 4:29

Instrument :

MSVOA_N

ClientSampleId :

RE134D4-20200915

Tot Ion: 75 Resp: 113964

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

