

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063629.D
 Acq On : 24 Sep 2020 15:28
 Operator : JC/MD
 Sample : L4119-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D1-20200921

Quant Time: Sep 25 03:49:24 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	202476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	377502	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	385205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	162712	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	173953	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
35) Dibromofluoromethane	7.55	113	126055	48.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.46%	
50) Toluene-d8	10.06	98	492049	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.38	95	189664	52.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.30%	

Target Compounds

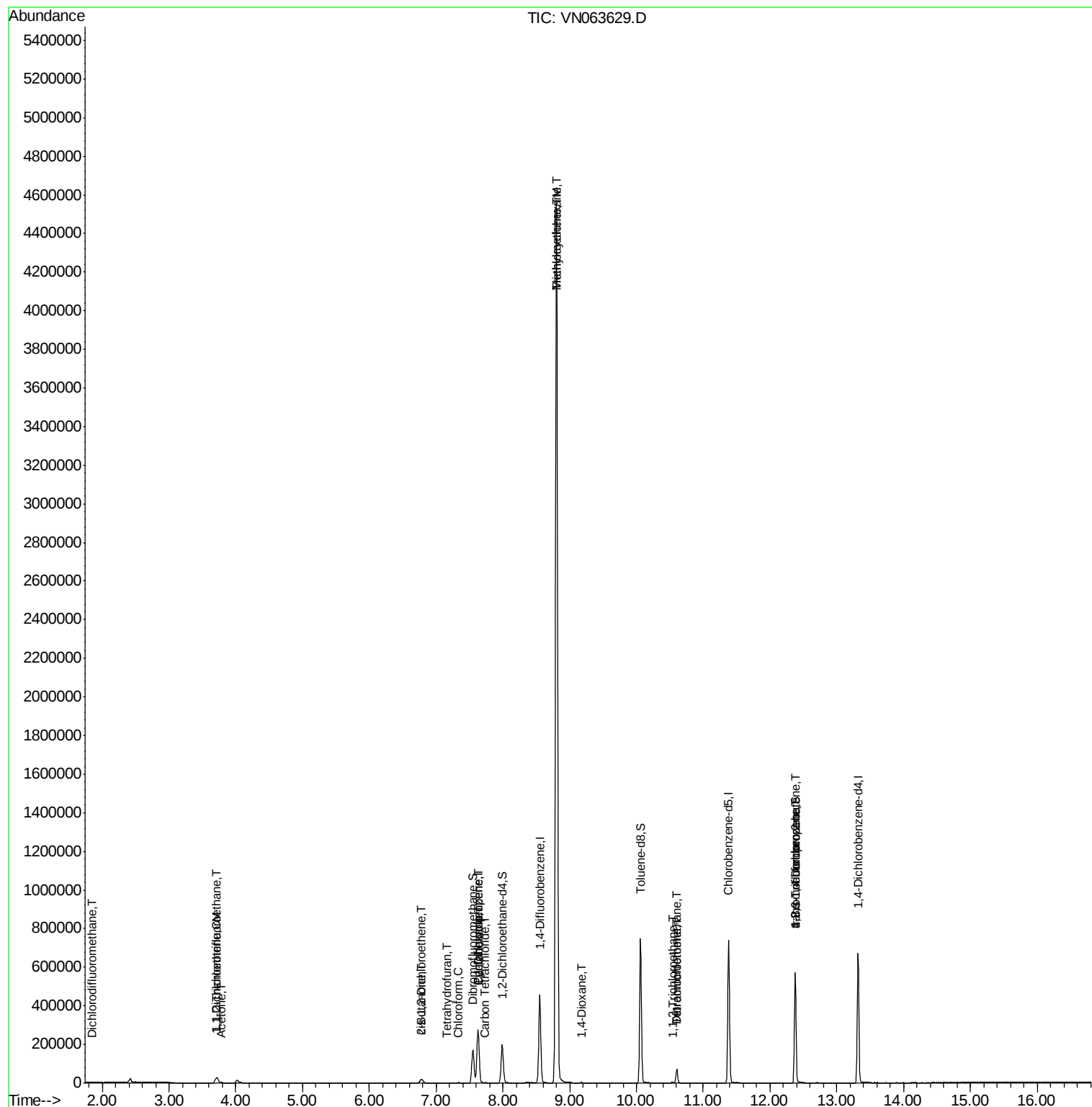
						Qvalue
2) Dichlorodifluoromethane	1.83	85	721	0.314	ug/l #	43
9) 1,1,2-Trichlorotrifluoroet	3.72	101	13341	5.914	ug/l	93
12) 1,1-Dichloroethene	3.70	96	6142	2.688	ug/l	98
16) Acetone	3.78	43	574	0.518	ug/l	94
25) 2-Butanone	6.78	43	442	0.259	ug/l #	51
27) cis-1,2-Dichloroethene	6.78	96	4899	1.710	ug/l	95
29) Tetrahydrofuran	7.17	42	533	0.458	ug/l #	36
30) Chloroform	7.33	83	2163	0.428	ug/l	94
31) Cyclohexane	7.63	56	6611	1.389	ug/l #	46
36) 1,1-Dichloropropene	7.62	75	18994	4.723	ug/l #	52
38) Carbon Tetrachloride	7.74	117	898	0.219	ug/l #	53
39) Methylcyclohexane	8.80	83	21488	4.923	ug/l #	1
44) Trichloroethene	8.80	130	1511835	542.932	ug/l	100
49) 1,4-Dioxane	9.18	88	990	19.895	ug/l #	34
55) 1,1,2-Trichloroethane	10.54	97	893	0.326	ug/l #	79
60) Dibromochloromethane	10.60	129	14278	4.610	ug/l #	10
64) Tetrachloroethene	10.60	164	14713	5.609	ug/l	92
76) 1,2,3-Trichloropropane	12.38	75	106022	26.326	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	106022	72.175	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: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

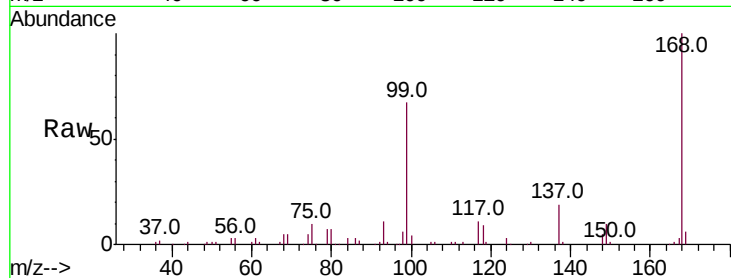
RE103D1-20200921

Tot Ion:168 Resp: 202476

Ion Ratio Lower Upper

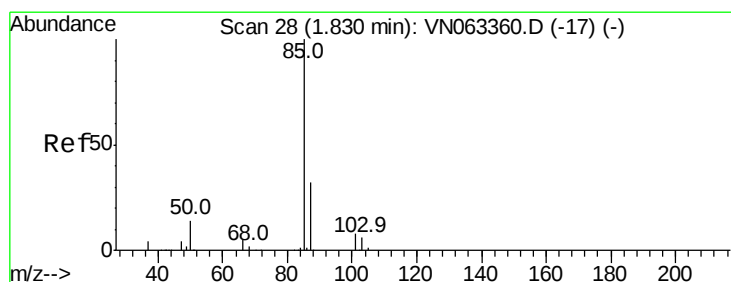
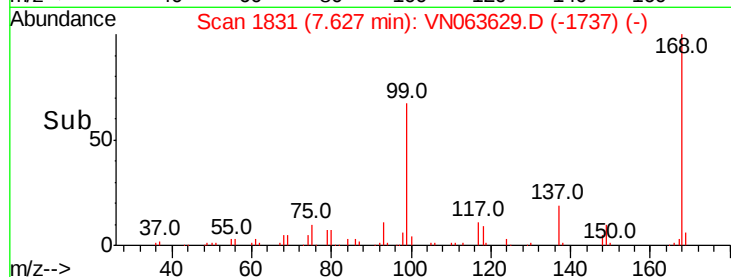
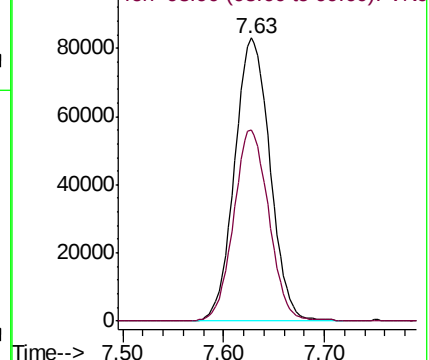
168 100

99 67.2 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#2

Dichlorodifluoromethane

Concen: 0.314 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063629.D

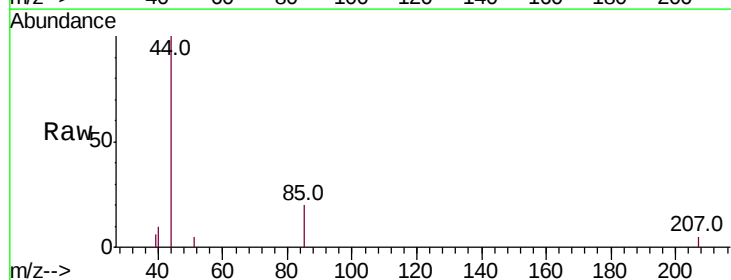
Acq: 24 Sep 2020 15:28

Tgt Ion: 85 Resp: 721

Ion Ratio Lower Upper

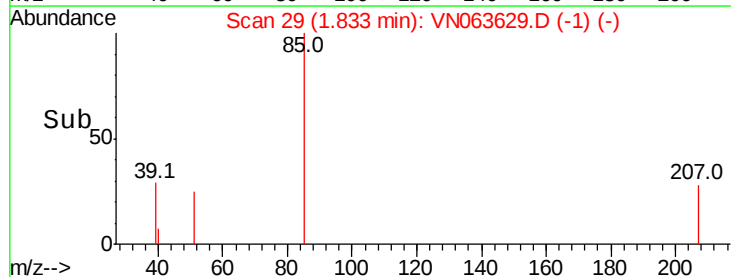
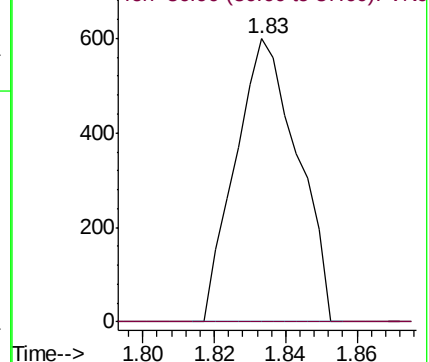
85 100

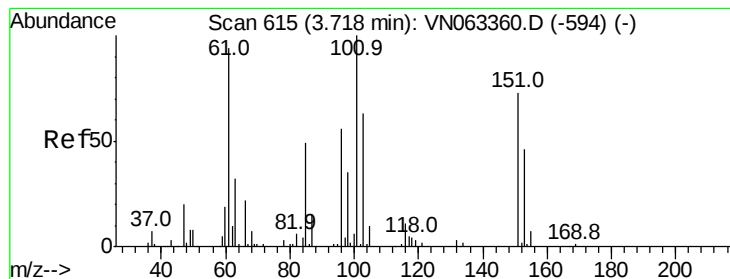
87 0.0 15.9 47.6#



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.914 ug/l

RT: 3.72 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

RE103D1-20200921

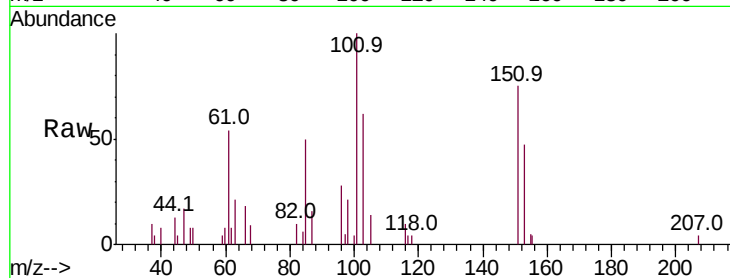
Tot Ion:101 Resp: 13341

Ion Ratio Lower Upper

101 100

85 42.2 37.7 56.5

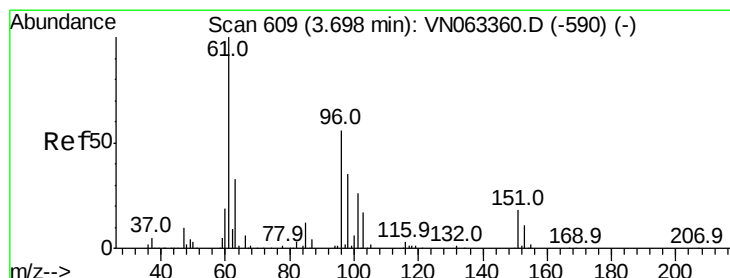
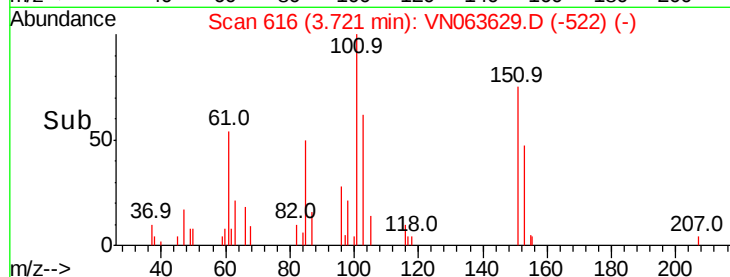
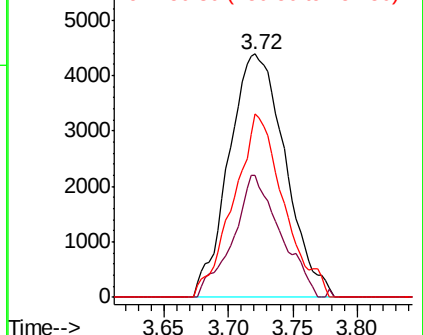
151 67.0 57.7 86.5



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: 2.688 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

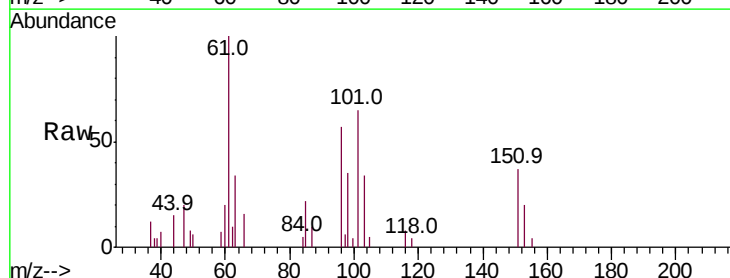
Tgt Ion: 96 Resp: 6142

Ion Ratio Lower Upper

96 100

61 176.9 143.4 215.2

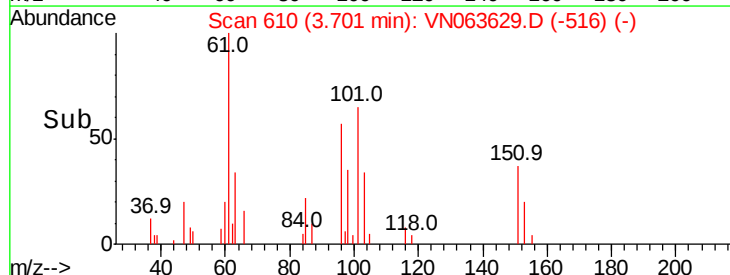
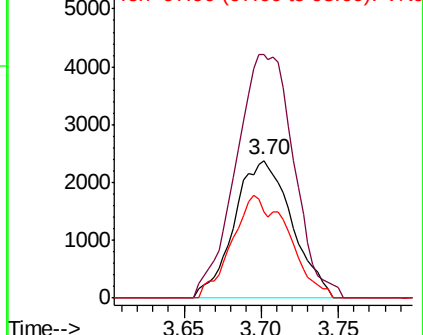
98 62.2 50.6 76.0

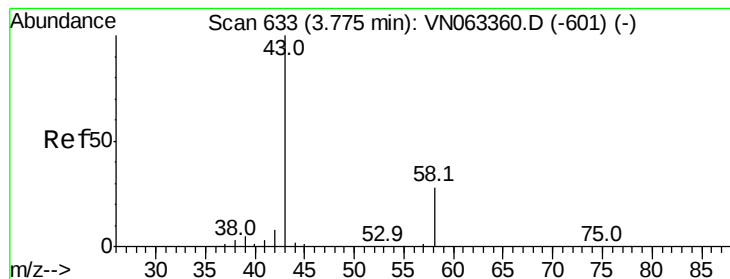


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#16

Acetone

Concen: 0.518 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

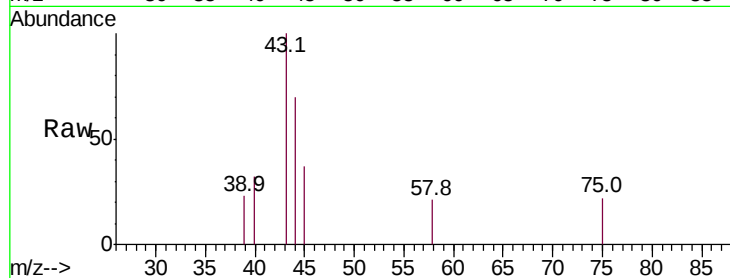
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20200921

Tot Ion: 43 Resp: 574

Ion Ratio Lower Upper

43 100

58 30.9 22.3 33.5

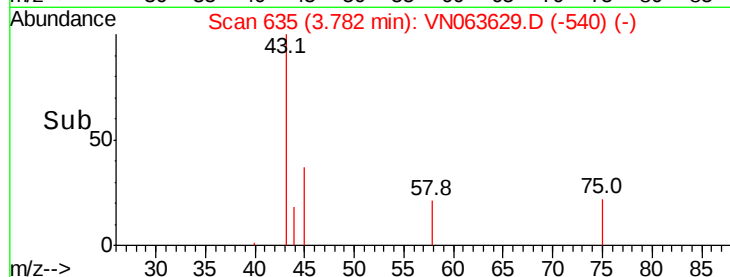


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-601) (-)

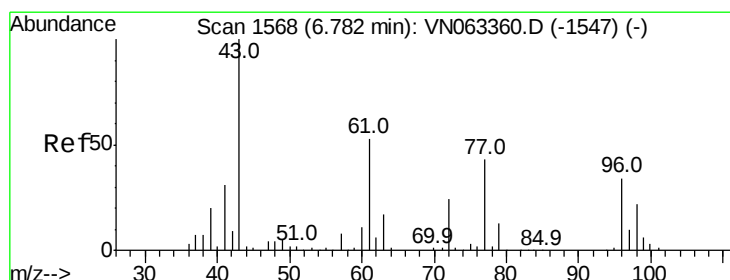
Ion 58.00 (57.70 to 58.70): VN063360.D (-601) (-)

Time-->

3.76 3.77 3.78 3.79 3.80



Time-->



#25

2-Butanone

Concen: 0.259 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.00 min

Lab File: VN063629.D

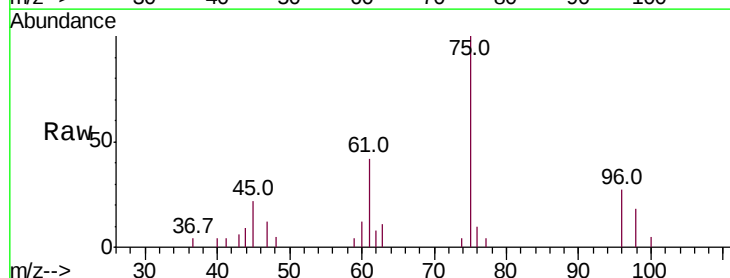
Acq: 24 Sep 2020 15:28

Tgt Ion: 43 Resp: 442

Ion Ratio Lower Upper

43 100

72 0.0 19.2 28.8#

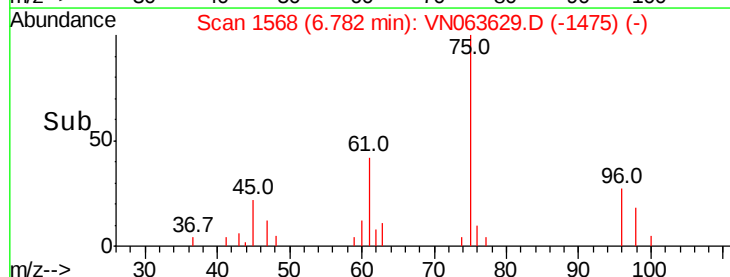


Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1547) (-)

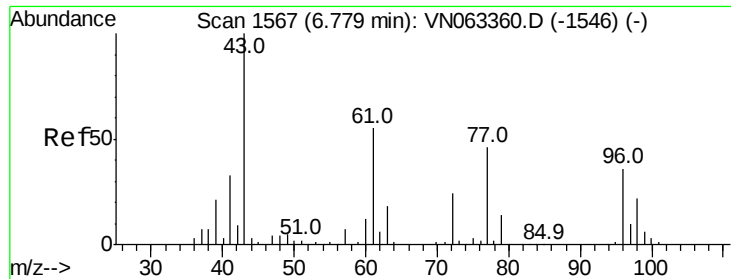
Ion 72.00 (71.70 to 72.70): VN063360.D (-1547) (-)

Time-->

6.76 6.77 6.78 6.79 6.80



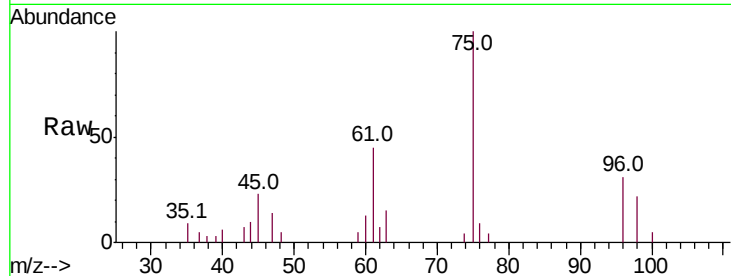
Time-->



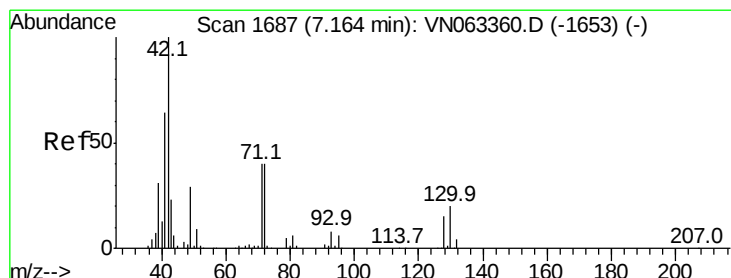
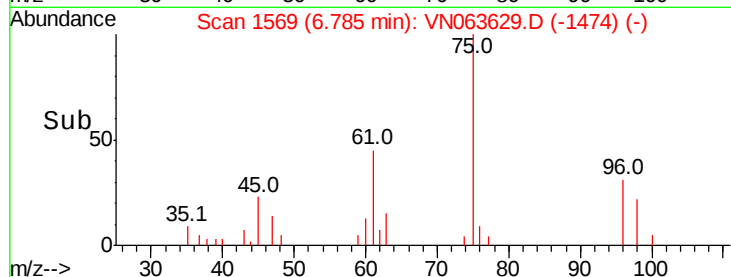
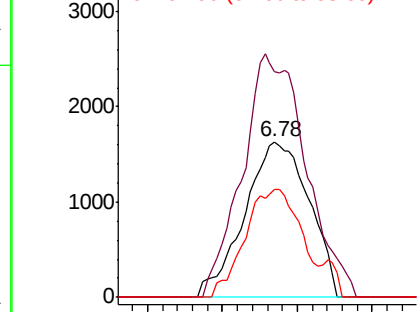
#27
 cis-1,2-Dichloroethene
 Concen: 1.710 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. 0.01 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D1-20200921

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.0	0.0	319.6
98	59.5	0.0	127.8

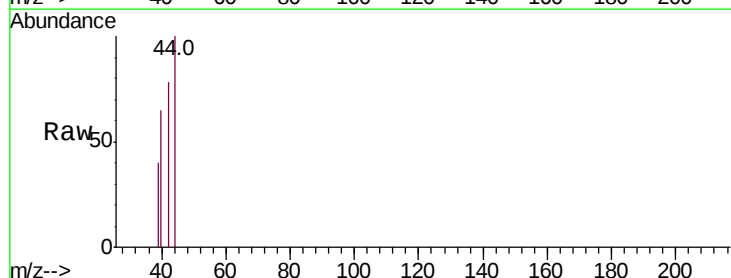


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

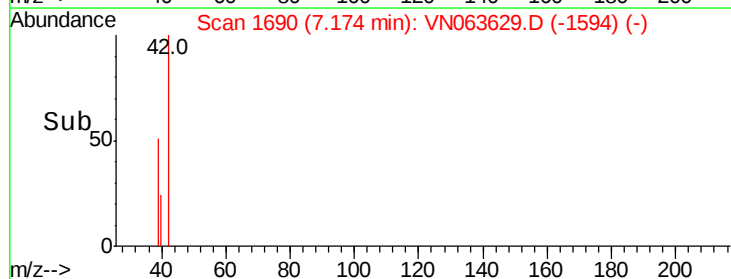
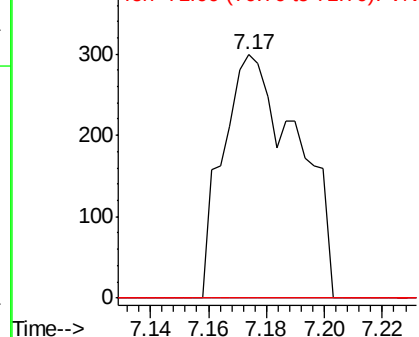


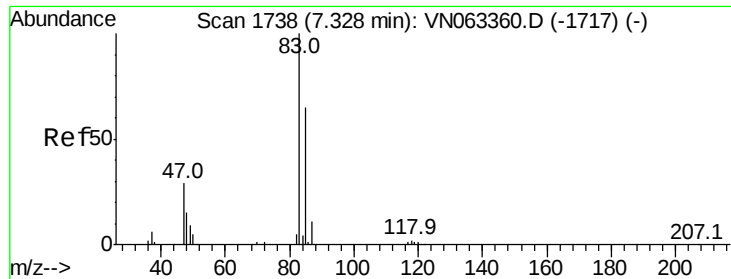
#29
 Tetrahydrofuran
 Concen: 0.458 ug/l
 RT: 7.17 min Scan# 1690
 Delta R.T. 0.01 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.1	48.1#
71	0.0	31.2	46.8#



Abundance Ion 42.00 (41.70 to 42.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0
 Ion 71.00 (70.70 to 71.70): VN0

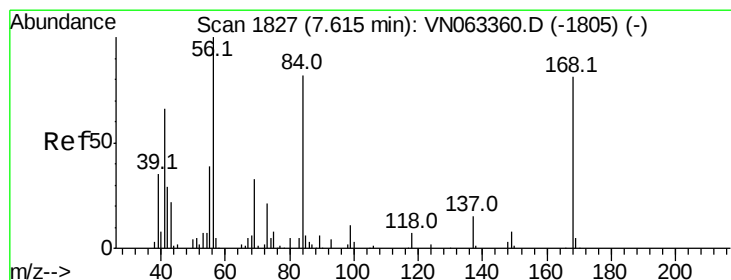
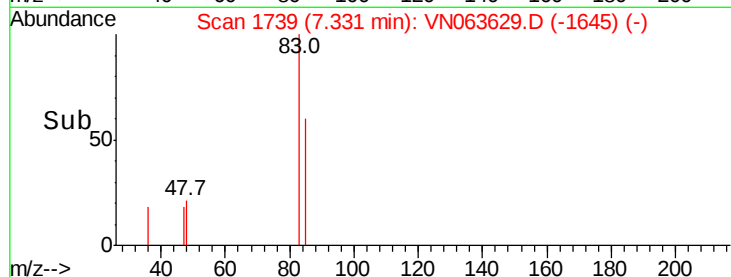
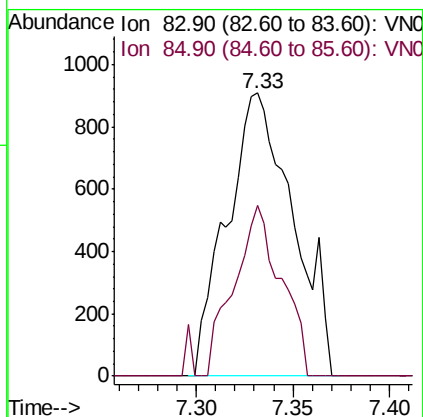
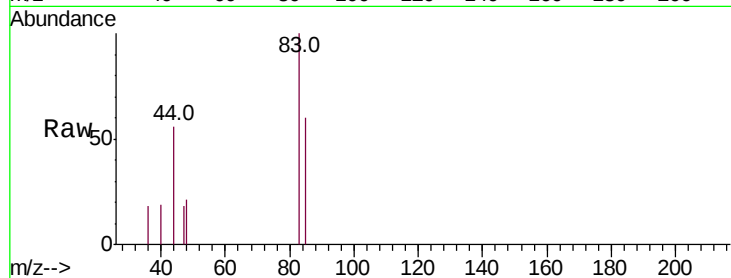




#30
Chloroform
Concen: 0.428 ug/l
RT: 7.33 min Scan# 1739
Delta R.T. 0.00 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

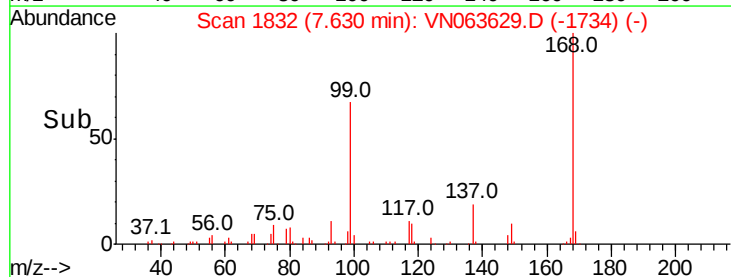
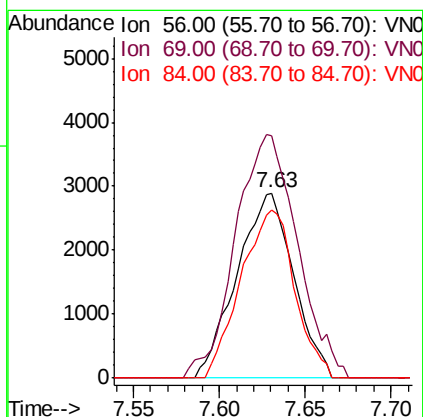
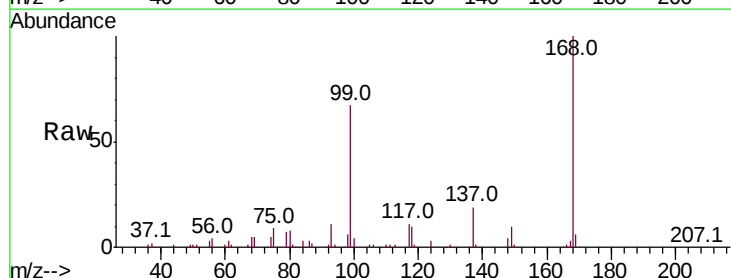
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20200921

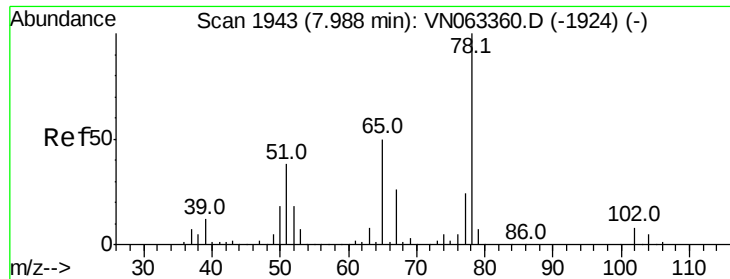
Tot Ion: 83 Resp: 2163
Ion Ratio Lower Upper
83 100
85 60.5 52.1 78.1



#31
Cyclohexane
Concen: 1.389 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

Tgt Ion: 56 Resp: 6611
Ion Ratio Lower Upper
56 100
69 125.1 26.1 39.1#
84 90.5 65.4 98.2

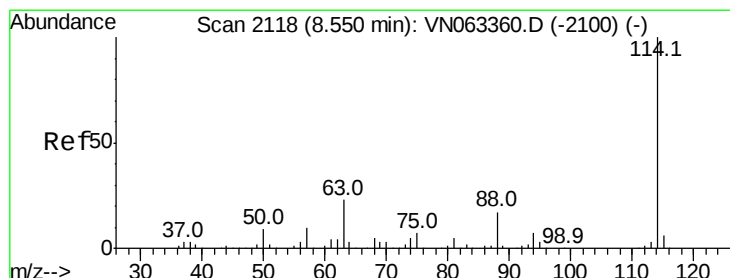
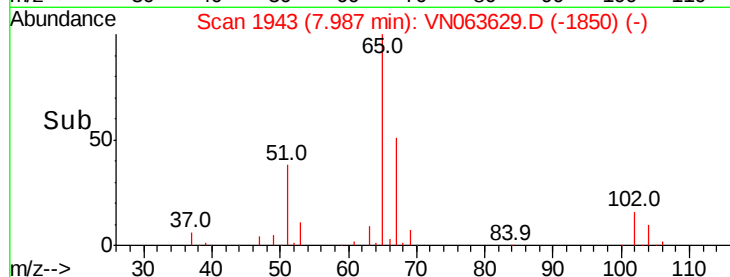
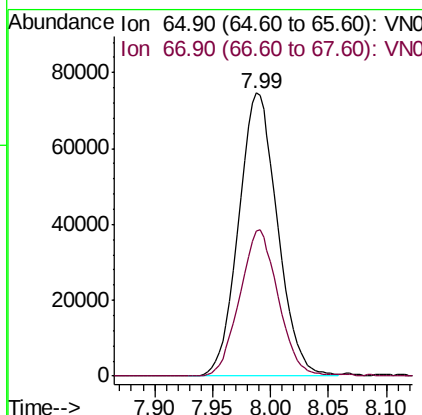
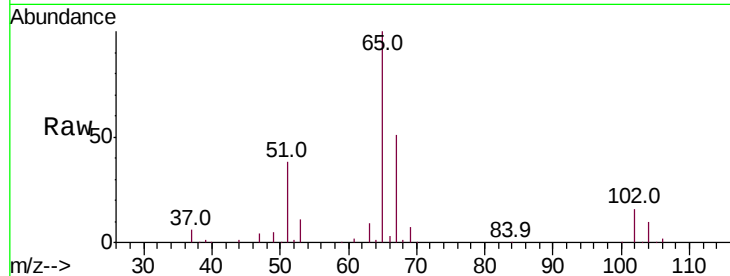




#33
 1,2-Dichloroethane-d4
 Concen: 50.470 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

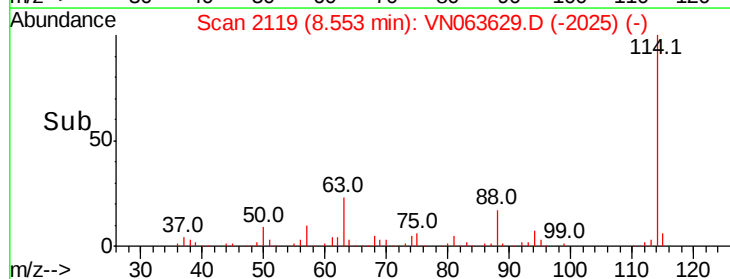
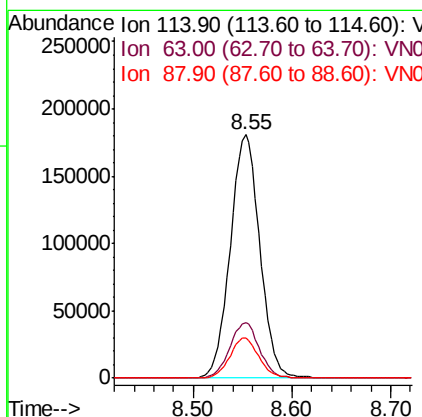
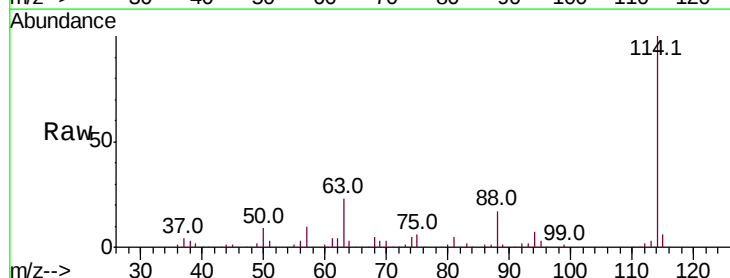
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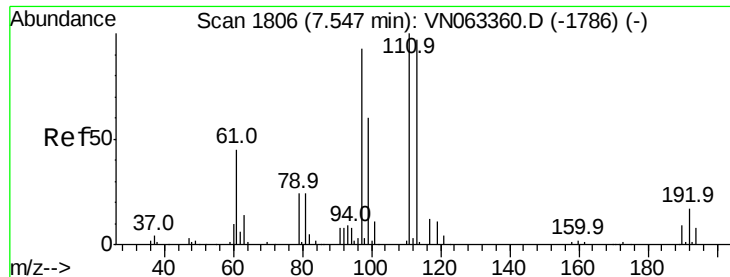
Tot Ion: 65 Resp: 173953
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

Tgt Ion: 114 Resp: 377502
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 46.4
 88 16.5 0.0 33.2

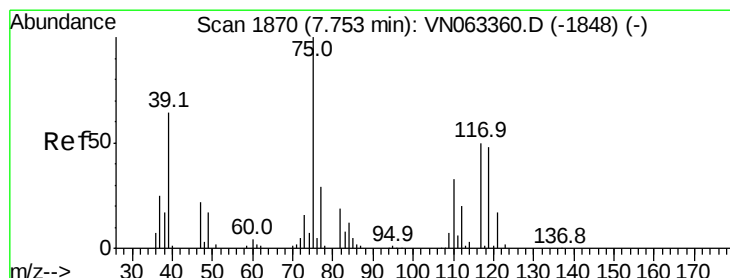
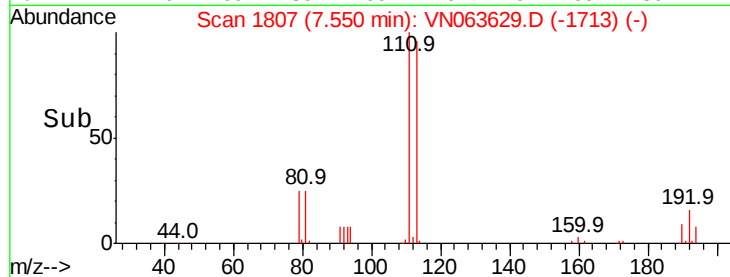
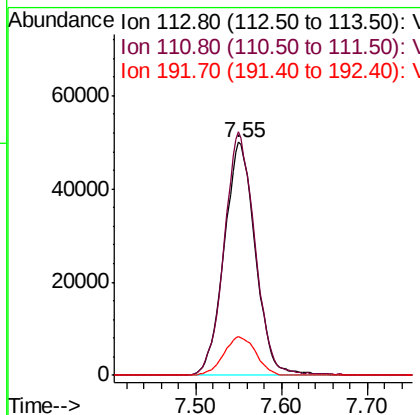
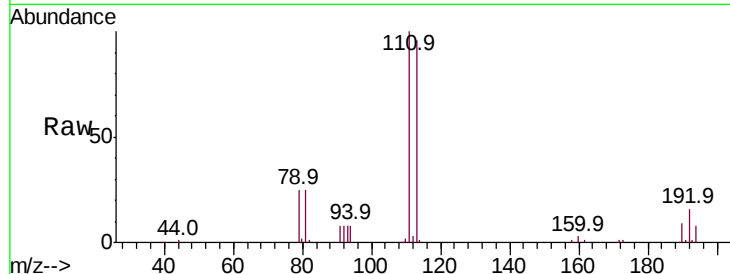




#35
Dibromofluoromethane
Concen: 48.235 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

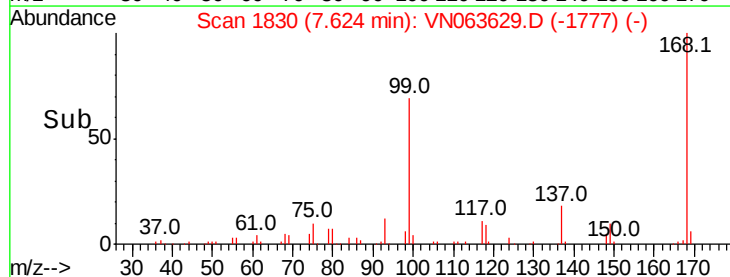
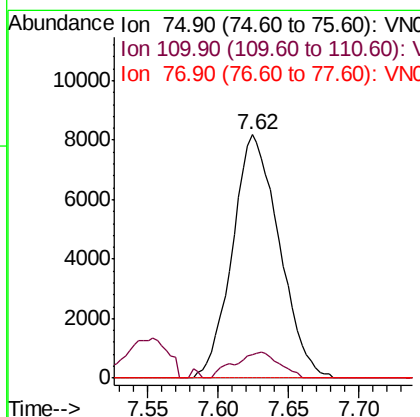
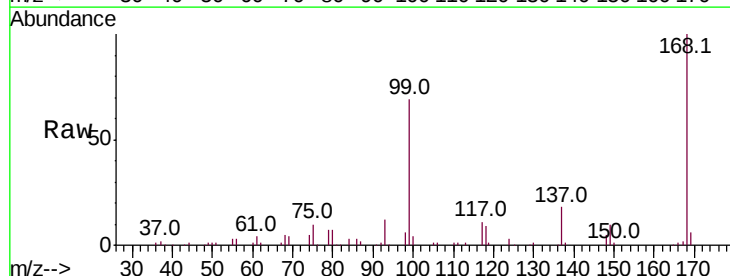
Instrument :
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RE103D1-20200921

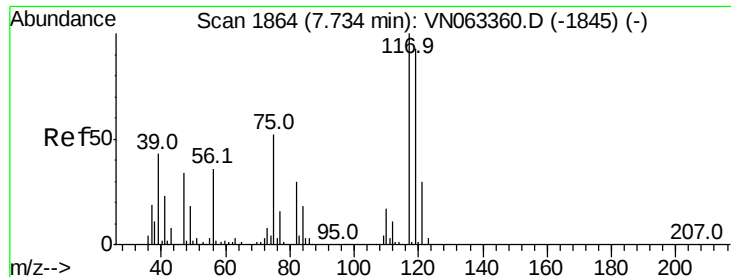
Tot Ion:113 Resp: 126055
Ion Ratio Lower Upper
113 100
111 102.3 82.9 124.3
192 17.1 13.9 20.9



#36
1,1-Dichloropropene
Concen: 4.723 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.13 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

Tgt Ion: 75 Resp: 18994
Ion Ratio Lower Upper
75 100
110 10.1 16.5 49.5#
77 0.0 24.6 36.8#

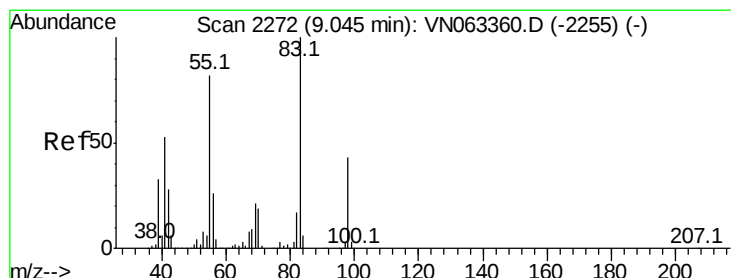
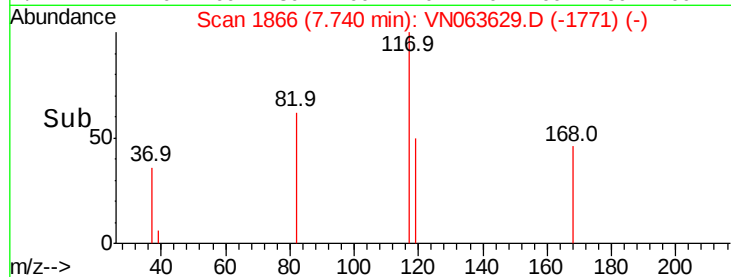
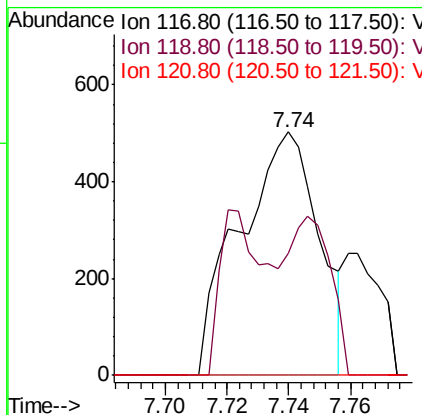
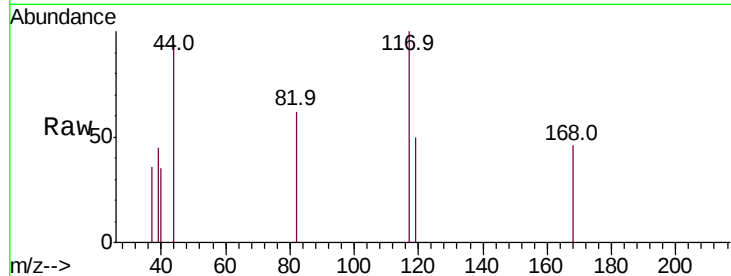




#38
Carbon Tetrachloride
Concen: 0.219 ug/l
RT: 7.74 min Scan# 1866
Delta R.T. 0.01 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

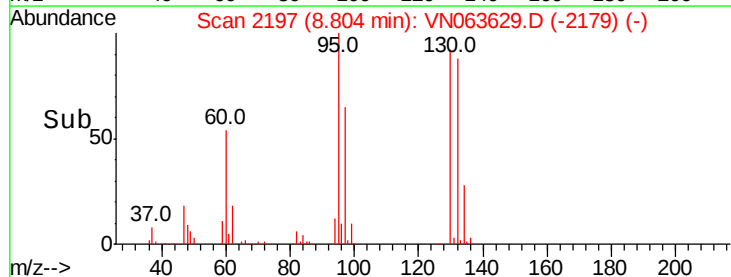
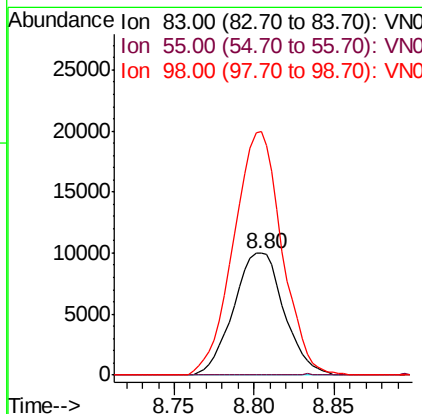
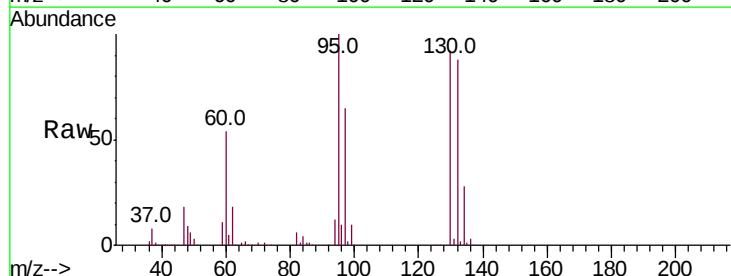
Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20200921

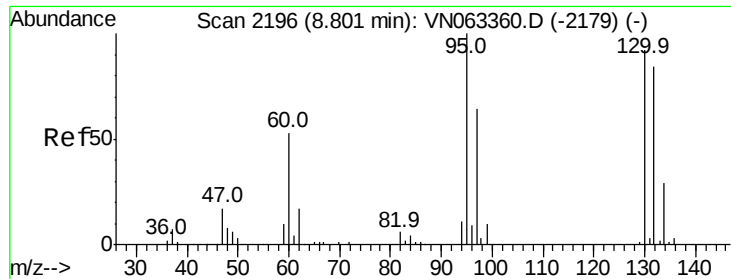
Tot Ion:117 Resp: 898
Ion Ratio Lower Upper
117 100
119 50.1 74.5 111.7#
121 0.0 24.1 36.1#



#39
Methylcyclohexane
Concen: 4.923 ug/l
RT: 8.80 min Scan# 2197
Delta R.T. -0.24 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

Tgt Ion: 83 Resp: 21488
Ion Ratio Lower Upper
83 100
55 0.0 65.5 98.3#
98 199.6 34.2 51.4#

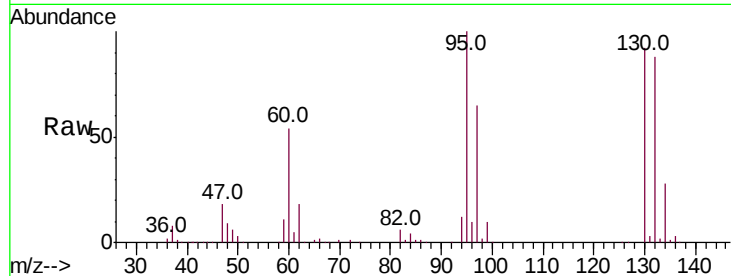




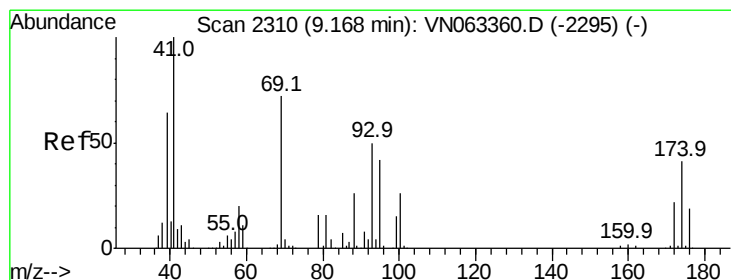
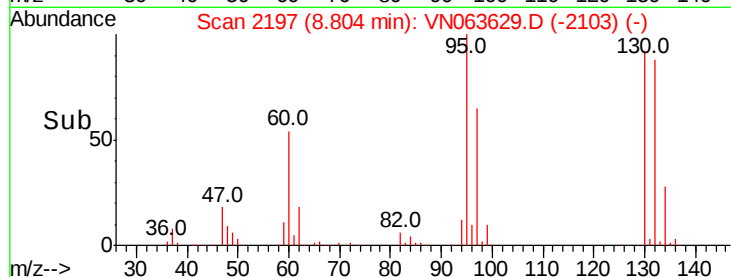
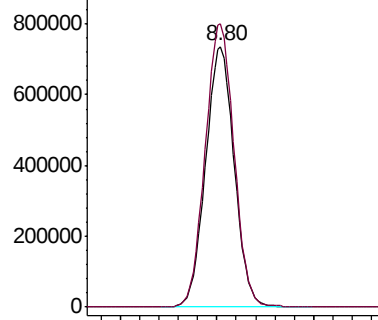
#44
 Trichloroethene
 Concen: 542.932 ug/l
 RT: 8.80 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

Instrument :
 MSVOA_N
 ClientSampleId :
 RE103D1-20200921

Tot Ion:130 Resp: 1511835
 Ion Ratio Lower Upper
 130 100
 95 108.5 0.0 217.4

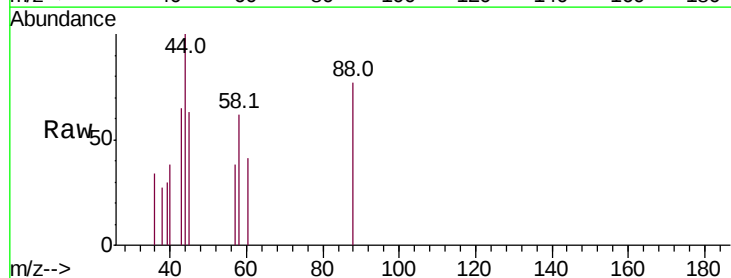


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

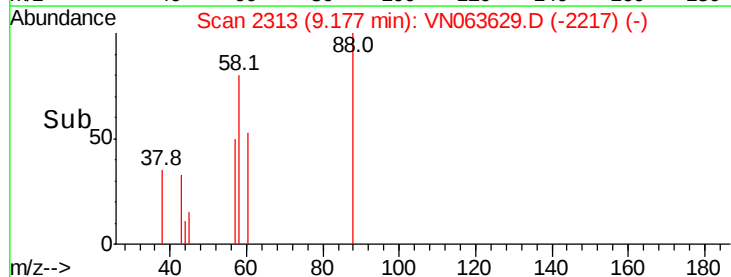
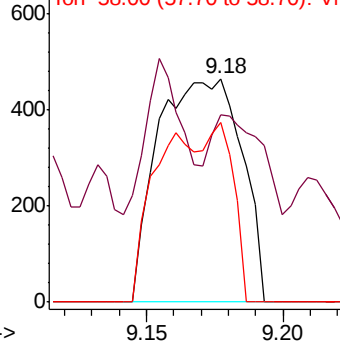


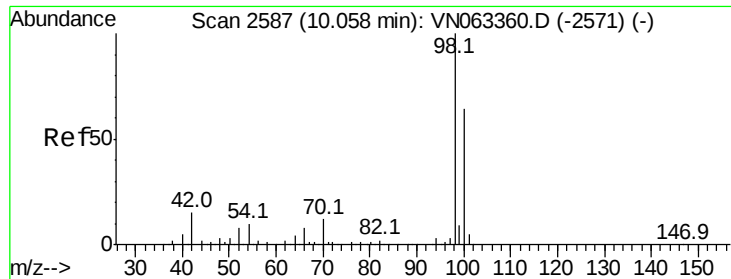
#49
 1,4-Dioxane
 Concen: 19.895 ug/l
 RT: 9.18 min Scan# 2313
 Delta R.T. 0.01 min
 Lab File: VN063629.D
 Acq: 24 Sep 2020 15:28

Tgt Ion: 88 Resp: 990
 Ion Ratio Lower Upper
 88 100
 43 25.7 32.6 49.0#
 58 0.0 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





#50

Toluene-d8

Concen: 50.072 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

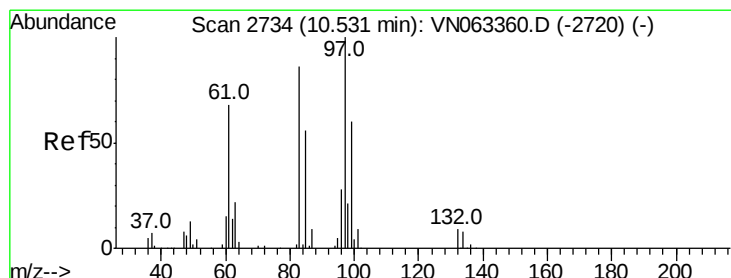
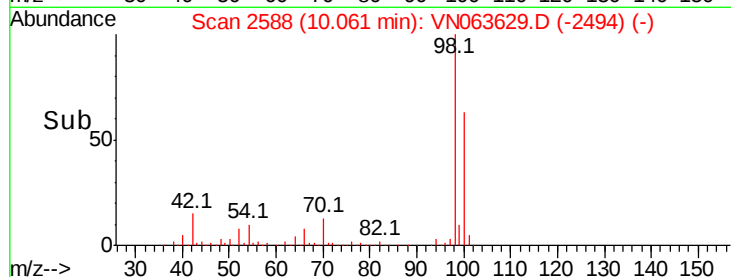
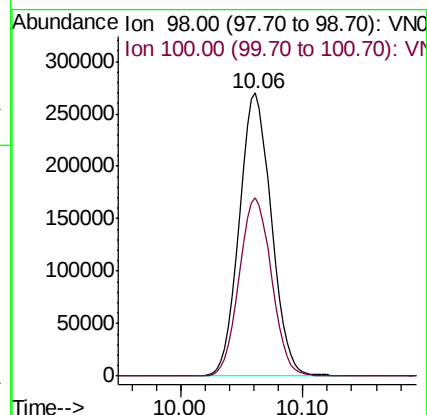
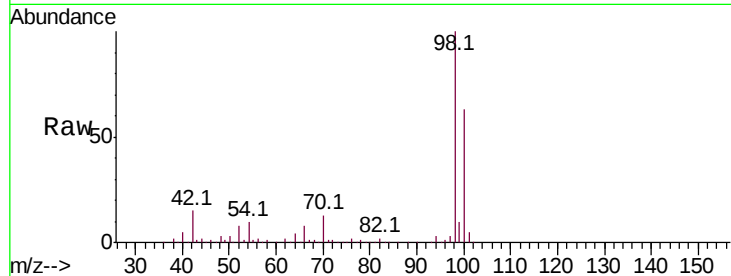
RE103D1-20200921

Tot Ion: 98 Resp: 492049

Ion Ratio Lower Upper

98 100

100 63.5 50.7 76.1



#55

1,1,2-Trichloroethane

Concen: 0.326 ug/l

RT: 10.54 min Scan# 2736

Delta R.T. 0.01 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

Tgt Ion: 97 Resp: 893

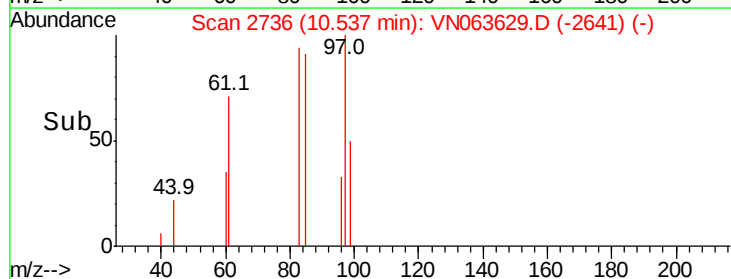
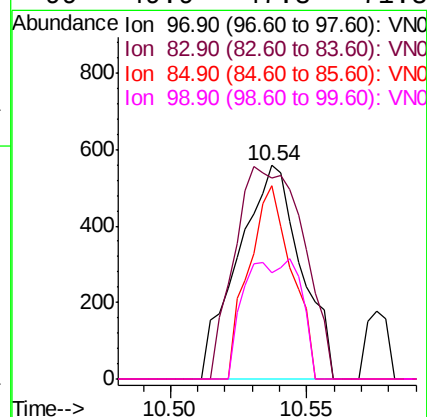
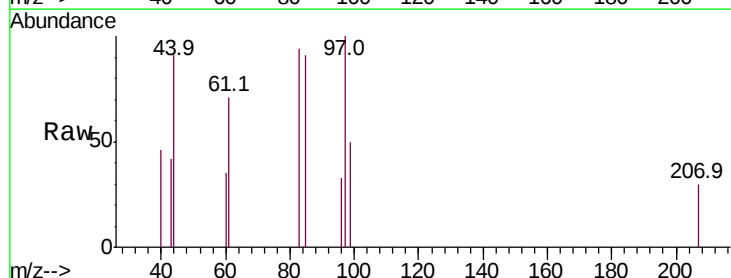
Ion Ratio Lower Upper

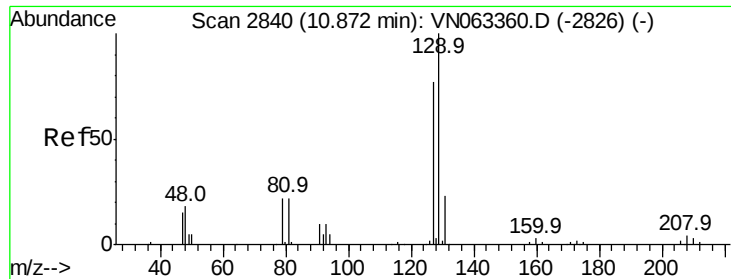
97 100

83 93.9 68.9 103.3

85 90.7 44.8 67.2#

99 49.9 47.8 71.8





#60

Dibromochloromethane

Concen: 4.610 ug/l

RT: 10.60 min Scan# 2757

Delta R.T. -0.27 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

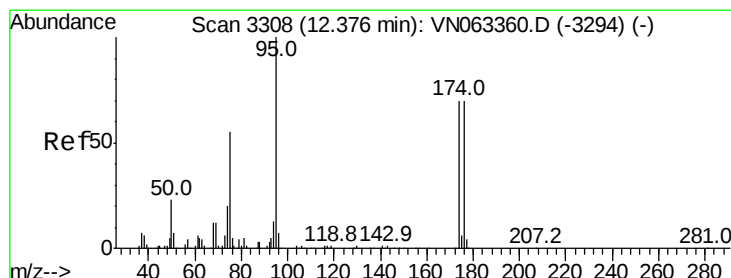
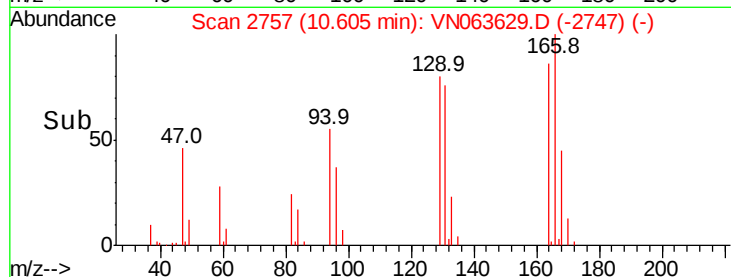
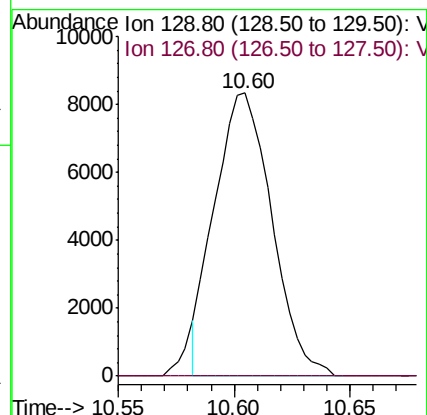
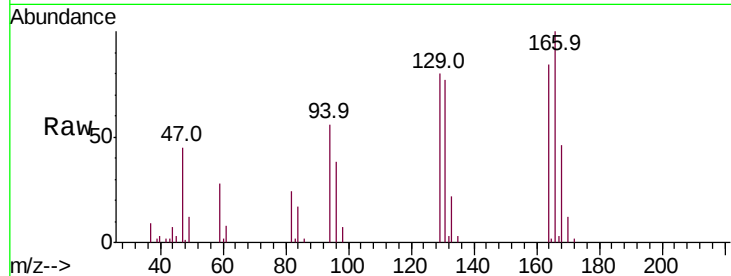
RE103D1-20200921

Tot Ion:129 Resp: 14278

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



#62

4-Bromofluorobenzene

Concen: 52.651 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

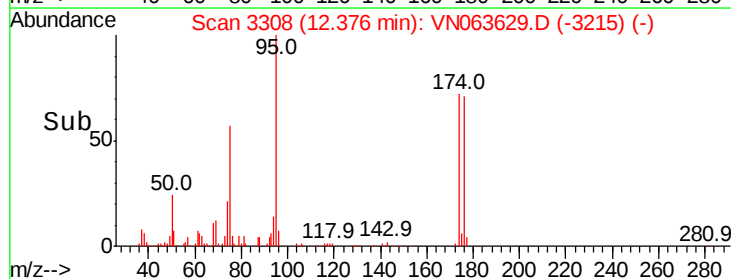
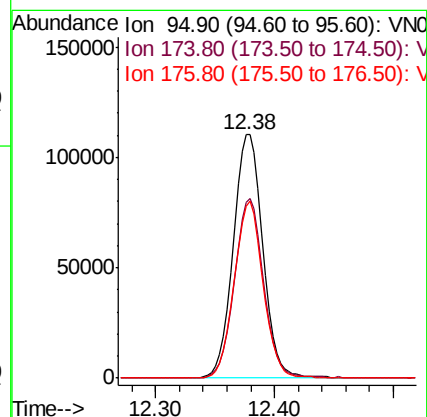
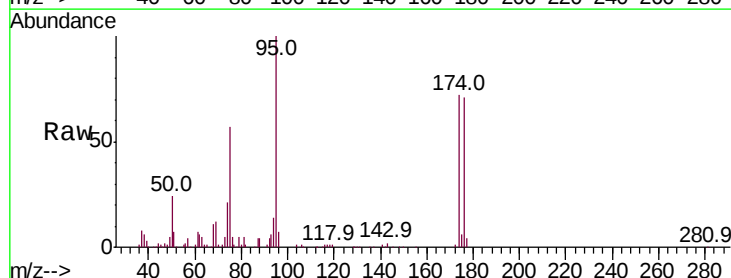
Tgt Ion: 95 Resp: 189664

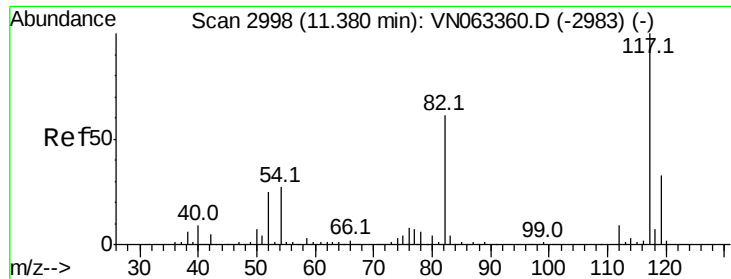
Ion Ratio Lower Upper

95 100

174 72.9 0.0 140.8

176 71.1 0.0 137.6

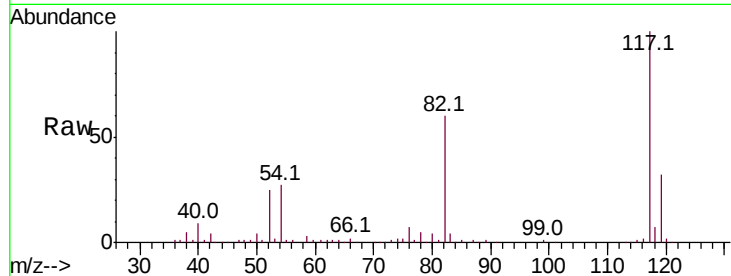




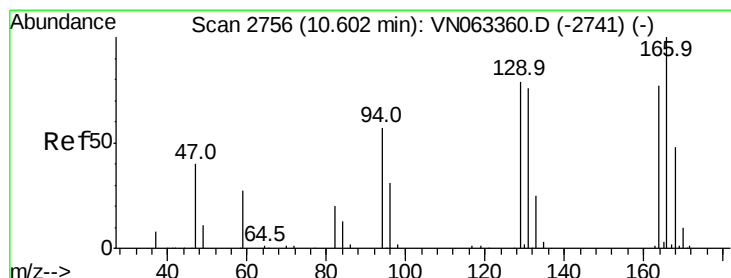
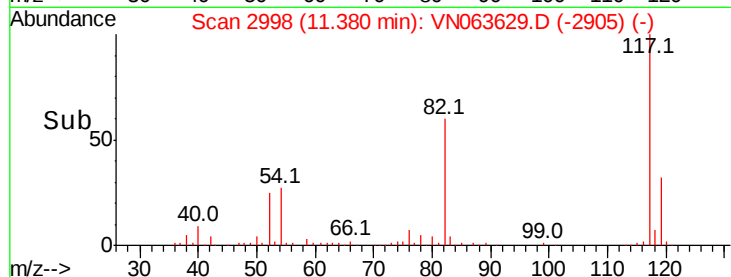
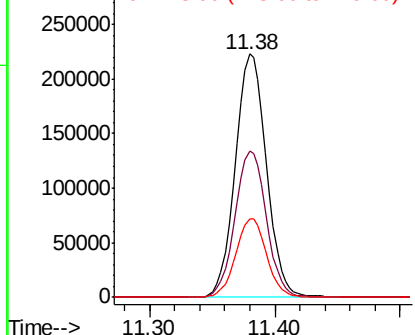
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

Instrument :
MSVOA_N
ClientSampleId :
RE103D1-20200921

Tot Ion:117 Resp: 385205
Ion Ratio Lower Upper
117 100
82 60.0 49.2 73.8
119 32.1 26.2 39.4

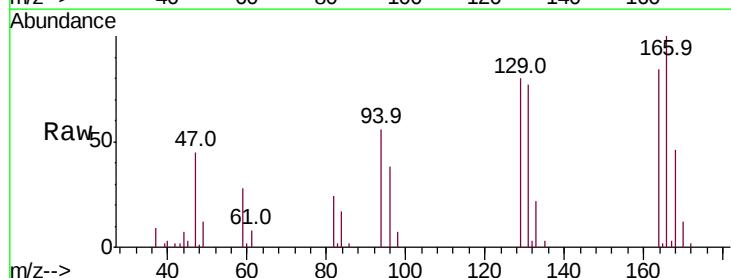


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

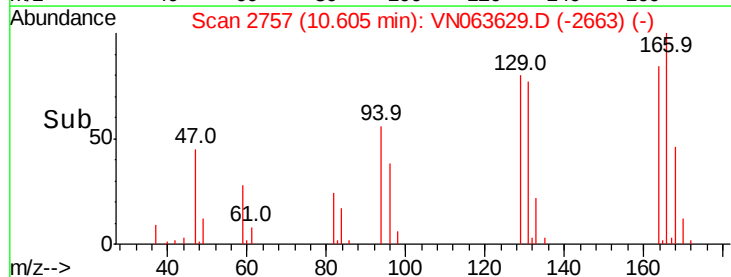
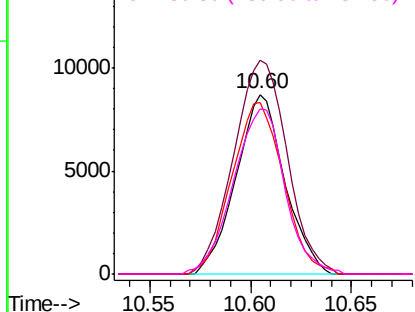


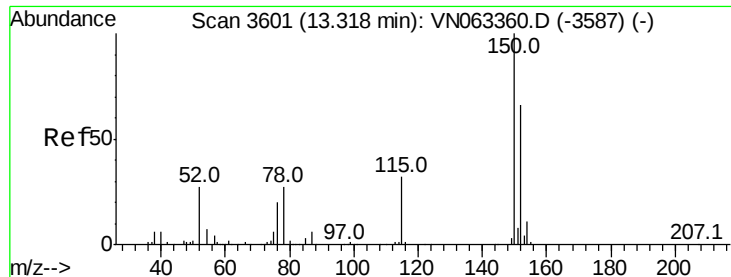
#64
Tetrachloroethene
Concen: 5.609 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN063629.D
Acq: 24 Sep 2020 15:28

Tgt Ion:164 Resp: 14713
Ion Ratio Lower Upper
164 100
166 118.8 103.4 155.0
129 95.6 81.8 122.6
131 89.7 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: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

RE103D1-20200921

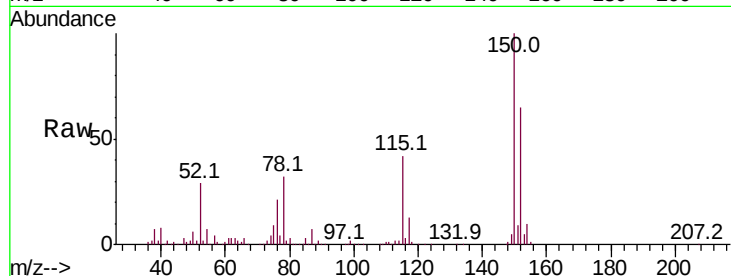
Tot Ion:152 Resp: 162712

Ion Ratio Lower Upper

152 100

115 63.5 32.2 96.6

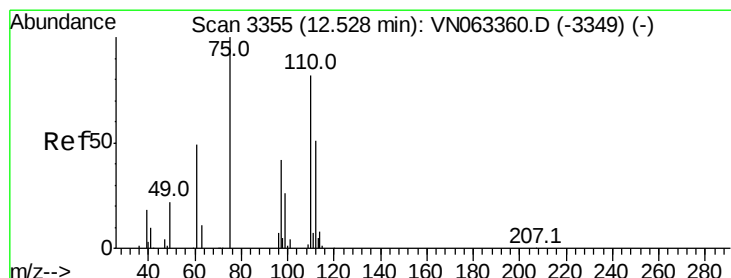
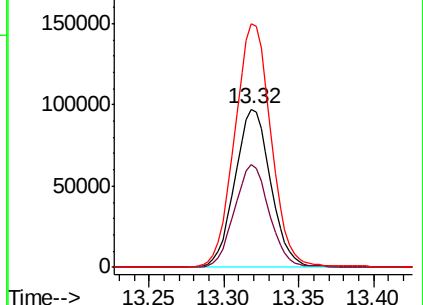
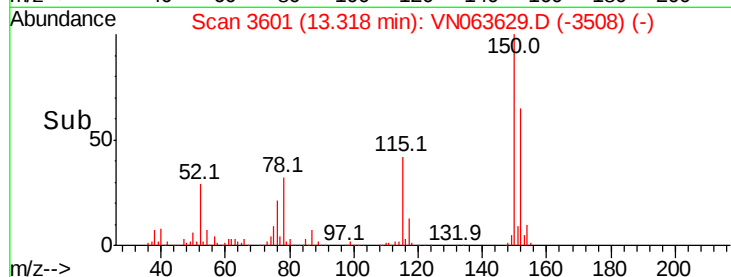
150 156.8 0.0 343.4



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: 26.326 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063629.D

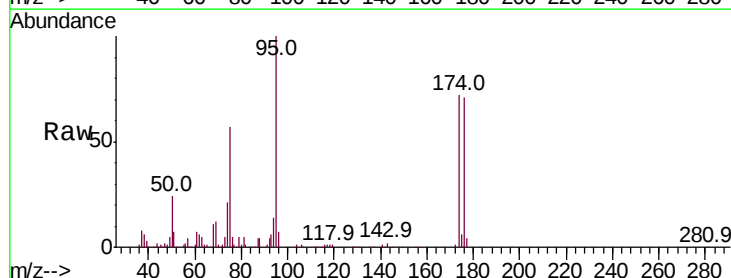
Acq: 24 Sep 2020 15:28

Tgt Ion: 75 Resp: 106022

Ion Ratio Lower Upper

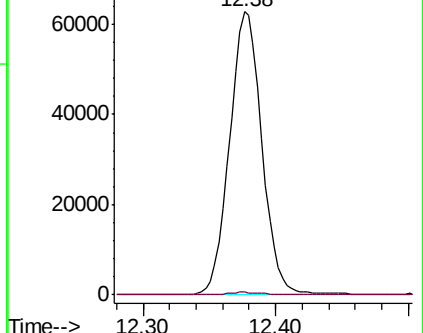
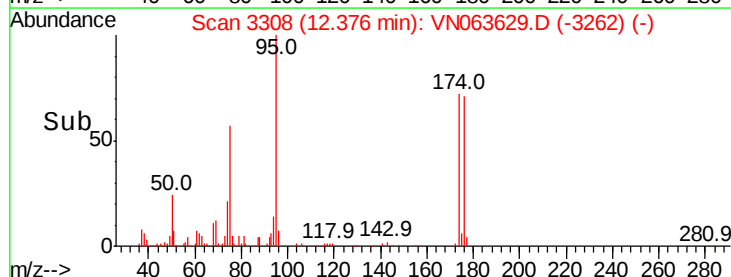
75 100

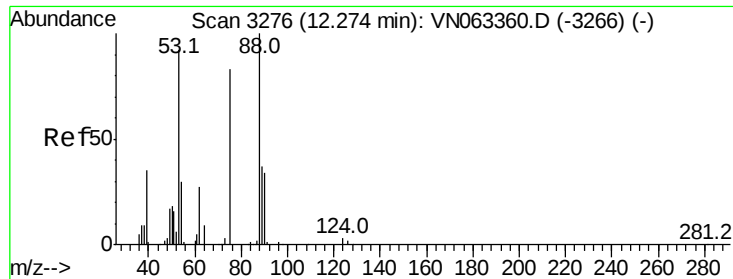
77 0.9 0.0 0.0#



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: 72.175 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063629.D

Acq: 24 Sep 2020 15:28

Instrument :

MSVOA_N

ClientSampleId :

RE103D1-20200921

Tot Ion: 75 Resp: 106022

Ion Ratio Lower Upper

75 100

53 0.0 85.7 128.5#

89 0.0 38.0 57.0#

