

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061793.D
 Acq On : 12 Jun 2020 16:00
 Operator : JC/MD
 Sample : L2988-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200609

Quant Time: Jun 13 05:12:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	273497	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	459368	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	455616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	201974	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	153830	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	7.55	113	131984	56.64	ug/l	0.00
Spiked Amount			Recovery	=	113.28%	
50) Toluene-d8	10.06	98	554273	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.38	95	190687	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	

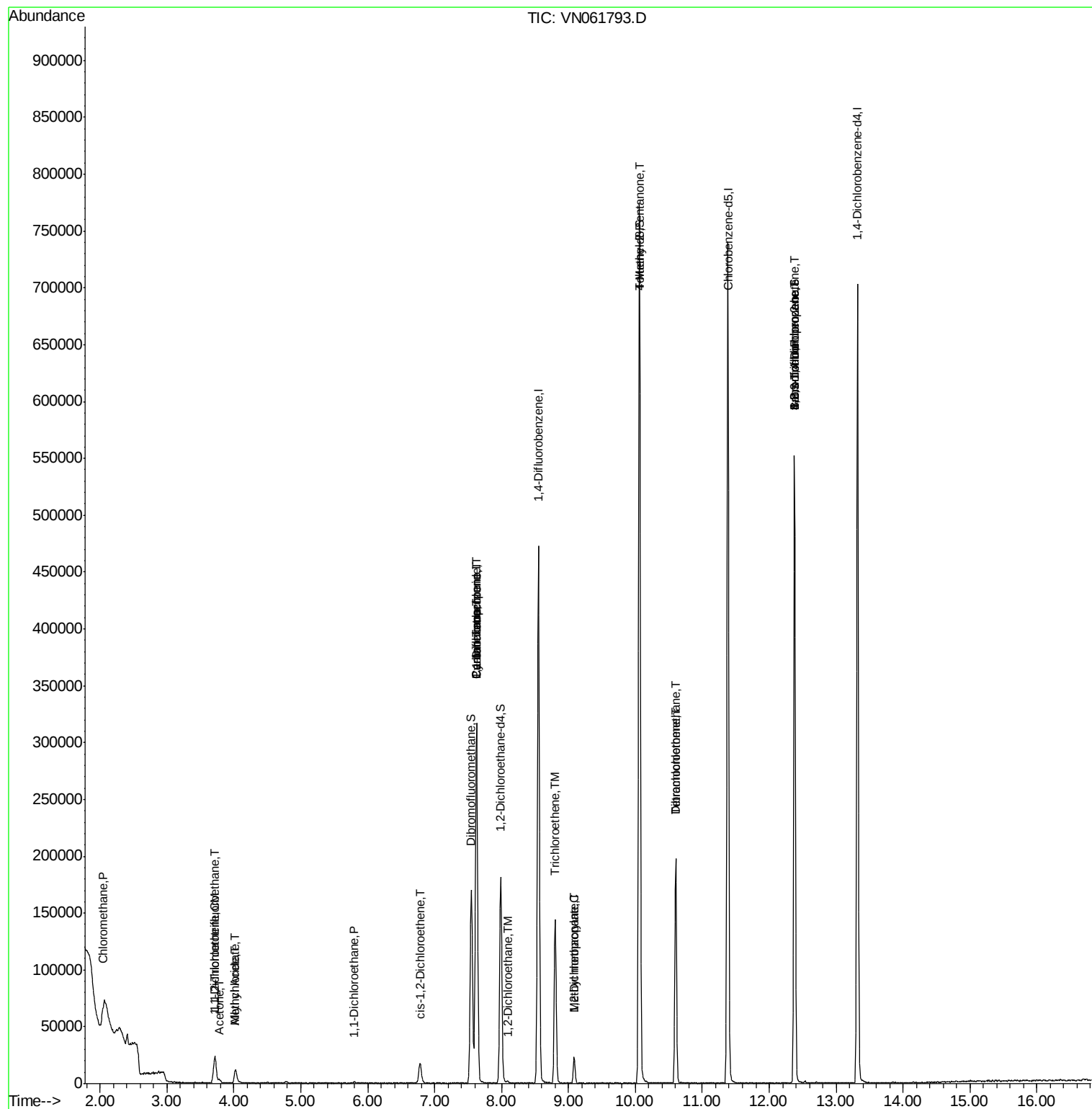
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	744	0.223	ug/l #	73
9) 1,1,2-Trichlorotrifluoroet	3.72	101	14097	5.389	ug/l	92
12) 1,1-Dichloroethene	3.70	96	1700	0.608	ug/l	82
14) Allyl chloride	4.01	41	1137	0.311	ug/l #	52
16) Acetone	3.78	43	5875	0.350	ug/l	97
18) Methyl Acetate	4.03	43	5741	1.946	ug/l #	46
20) Methylene Chloride	4.50	84	308	Below Cal	#	87
24) 1,1-Dichloroethane	5.79	63	1960	0.384	ug/l #	81
27) cis-1,2-Dichloroethene	6.79	96	13362	3.744	ug/l	90
31) Cyclohexane	7.63	56	4968	1.082	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	18110	4.453	ug/l #	49
38) Carbon Tetrachloride	7.63	117	24193	6.168	ug/l #	17
42) 1,2-Dichloroethane	8.09	62	1252	0.298	ug/l #	72
44) Trichloroethene	8.80	130	57483	14.907	ug/l	95
45) 1,2-Dichloropropane	9.08	63	9038	3.033	ug/l	94
48) Methyl methacrylate	9.08	41	4371	1.649	ug/l #	25
51) 4-Methyl-2-Pentanone	10.06	43	2046	0.616	ug/l #	1
60) Dibromochloromethane	10.60	129	42171	11.369	ug/l #	11
64) Tetrachloroethene	10.60	164	49593	11.563	ug/l	98
71) Bromoform	12.38	173	1988	0.732	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	90861	24.740	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	90861	63.266	ug/l #	15

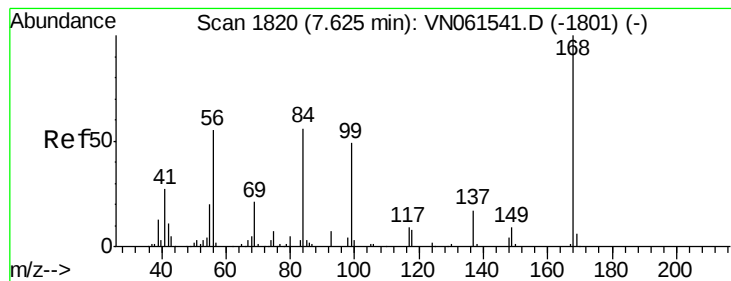
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

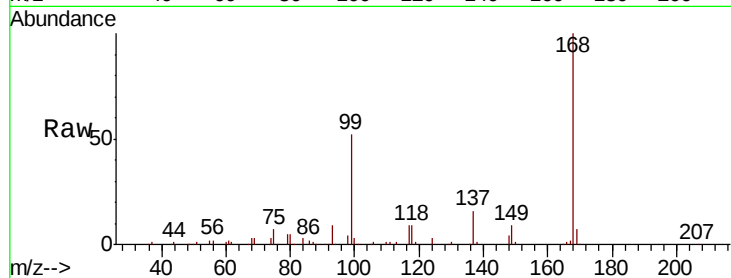
RE135D3-20200609

Tot Ion:168 Resp: 273497

Ion Ratio Lower Upper

168 100

99 52.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061793.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061793.D (-1727) (-)

7.63

120000

100000

80000

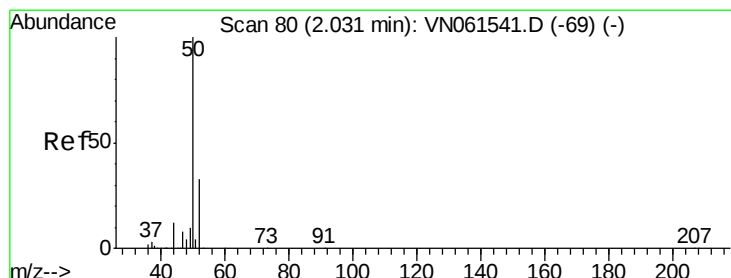
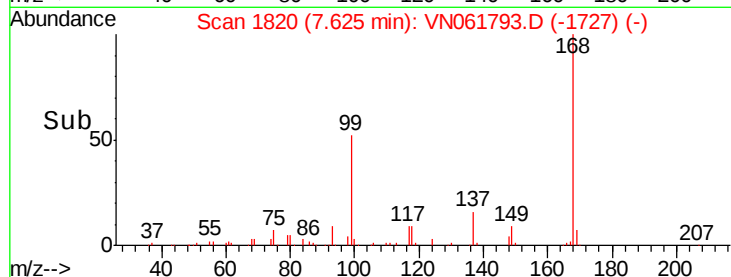
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.223 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061793.D

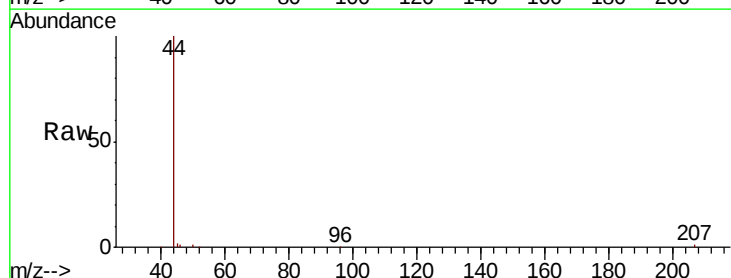
Acq: 12 Jun 2020 16:00

Tgt Ion: 50 Resp: 744

Ion Ratio Lower Upper

50 100

52 48.8 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN061793.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN061793.D (-1) (-)

2.03

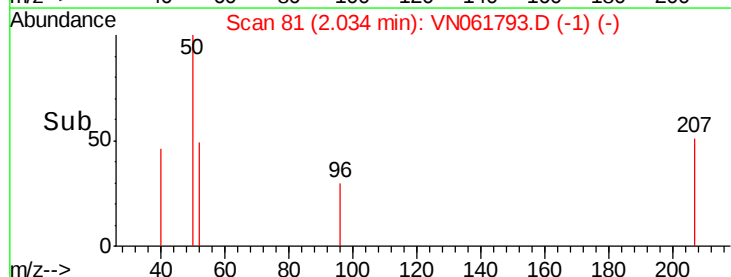
600

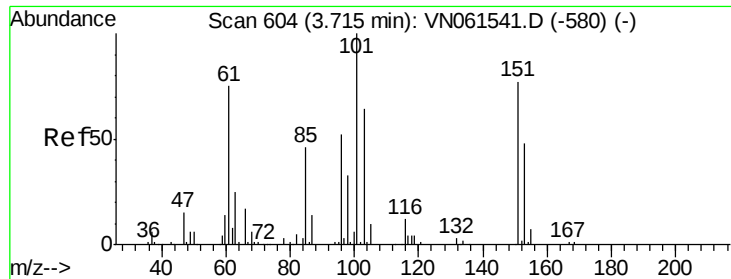
400

200

0

Time--> 2.00 2.02 2.04 2.06





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.389 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

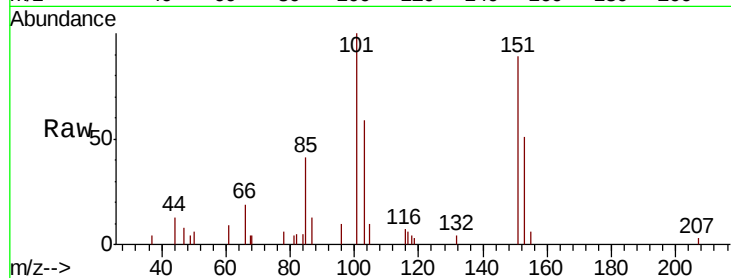
Tot Ion:101 Resp: 14097

Ion Ratio Lower Upper

101 100

85 43.2 35.2 52.8

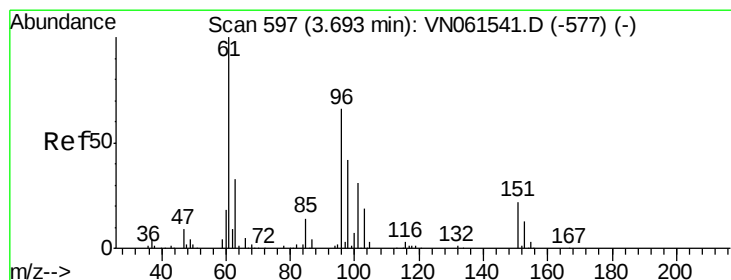
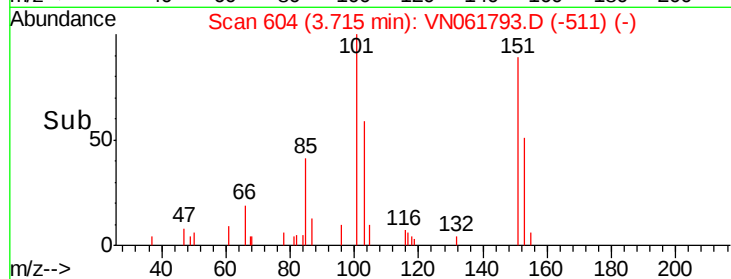
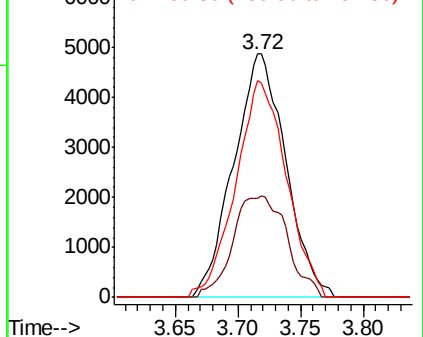
151 86.4 61.0 91.6



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: 0.608 ug/l

RT: 3.70 min Scan# 599

Delta R.T. 0.01 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

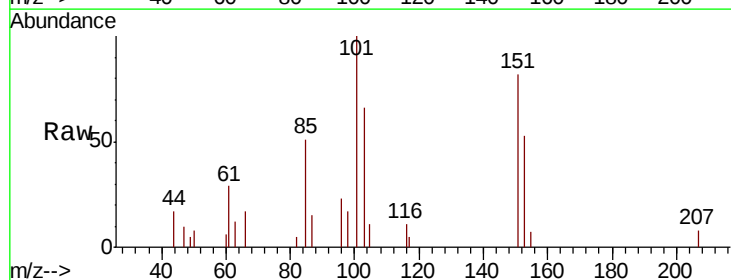
Tgt Ion: 96 Resp: 1700

Ion Ratio Lower Upper

96 100

61 124.6 120.5 180.7

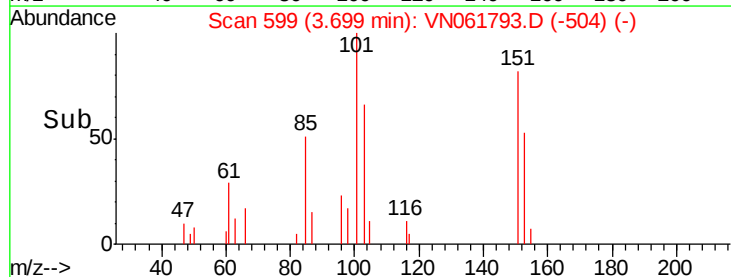
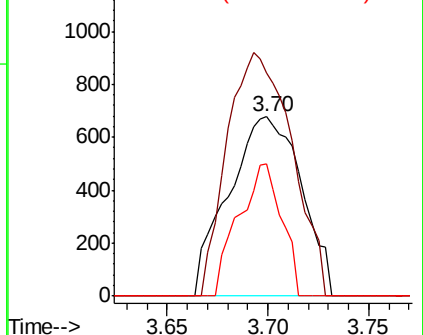
98 73.9 50.8 76.2

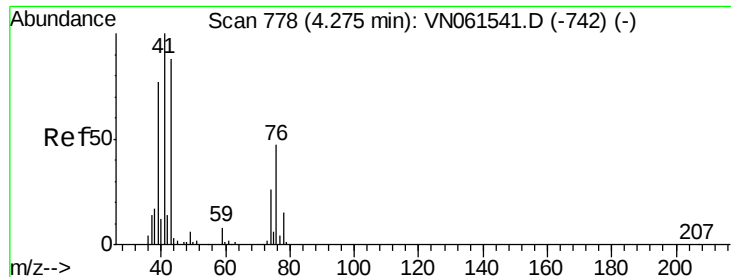


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#14

Allvl chloride

Concen: 0.311 ug/l

RT: 4.01 min Scan# 697

Delta R.T. -0.26 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

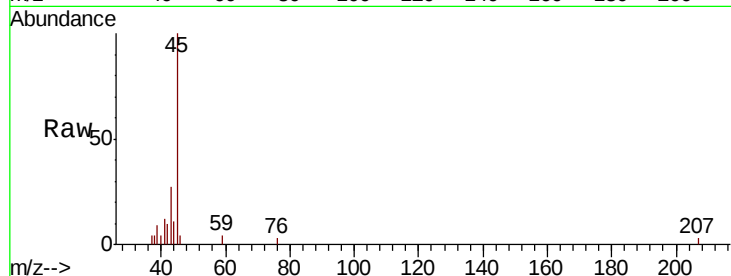
Tot Ion: 41 Resp: 1137

Ion Ratio Lower Upper

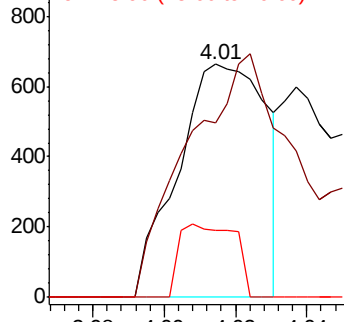
41 100

39 120.1 58.6 88.0#

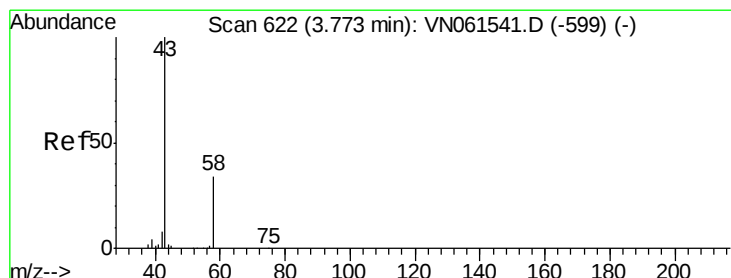
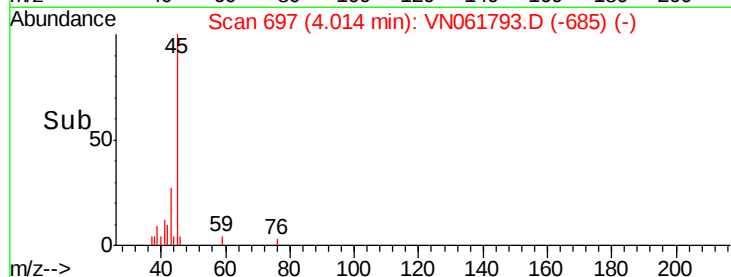
76 19.7 34.2 51.4#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



Time-->



#16

Acetone

Concen: 0.350 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061793.D

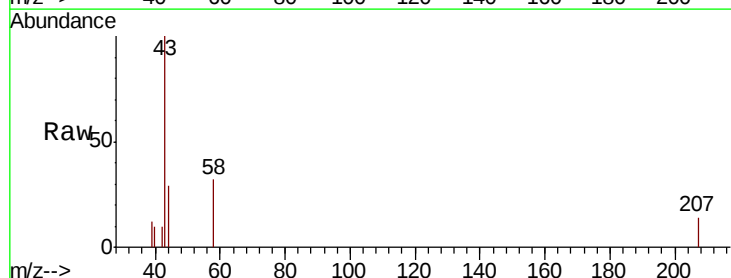
Acq: 12 Jun 2020 16:00

Tgt Ion: 43 Resp: 5875

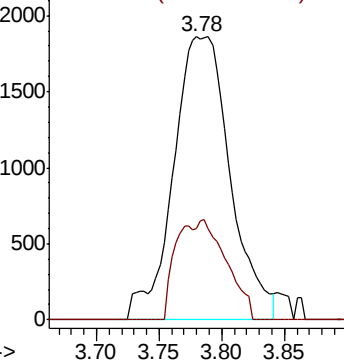
Ion Ratio Lower Upper

43 100

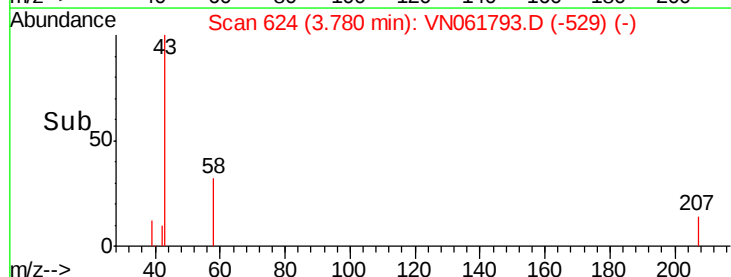
58 32.4 27.2 40.8

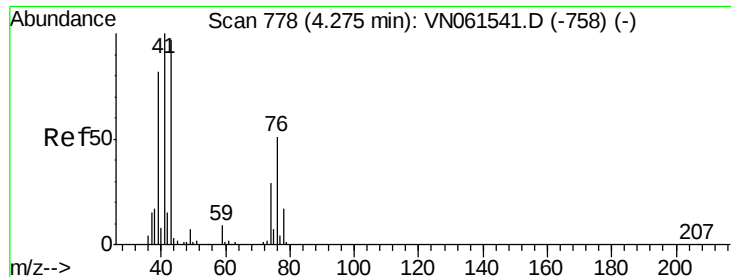


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0



Time-->

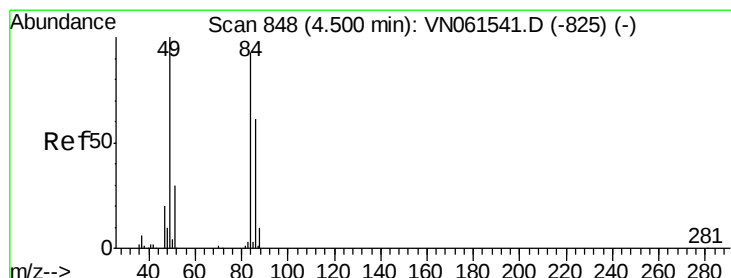
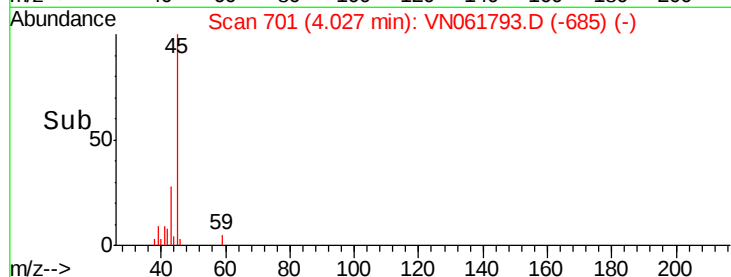
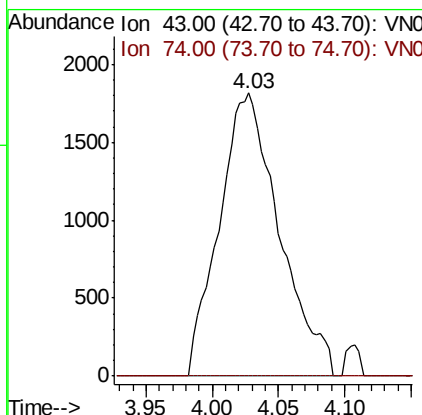
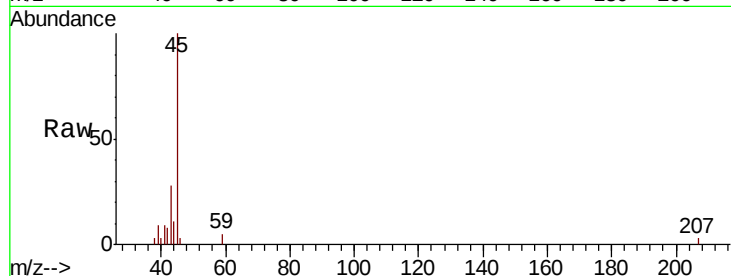




#18
Methyl Acetate
Concen: 1.946 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.25 min
Lab File: VN061793.D
Acq: 12 Jun 2020 16:00

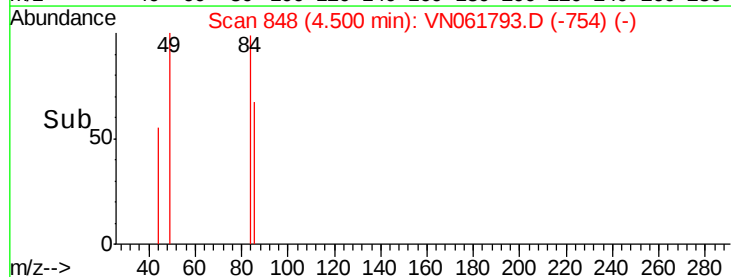
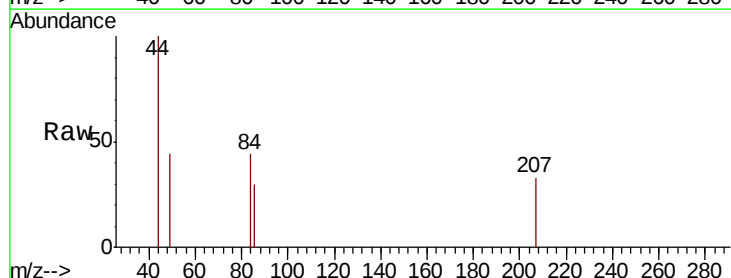
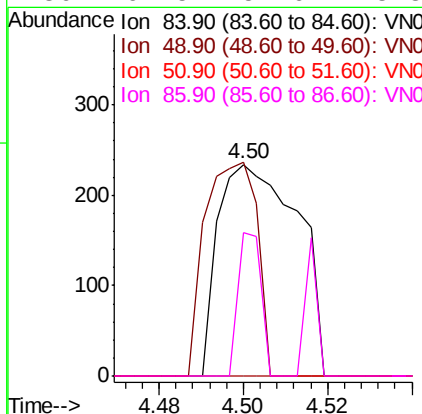
Instrument :
MSVOA_N
ClientSampleId :
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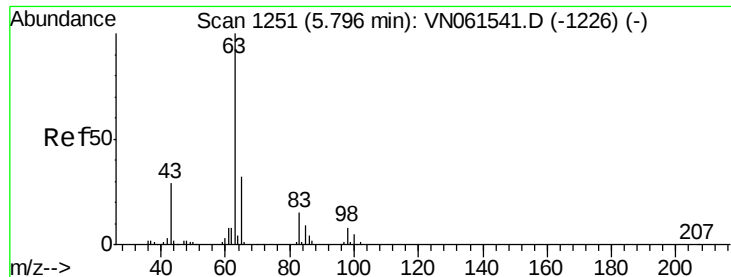
Tot Ion: 43 Resp: 5741
Ion Ratio Lower Upper
43 100
74 0.0 23.2 34.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN061793.D
Acq: 12 Jun 2020 16:00

Tgt Ion: 84 Resp: 308
Ion Ratio Lower Upper
84 100
49 100.9 85.8 128.8
51 0.0 26.2 39.2#
86 67.5 52.6 78.8





#24

1,1-Dichloroethane

Concen: 0.384 ug/l

RT: 5.79 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

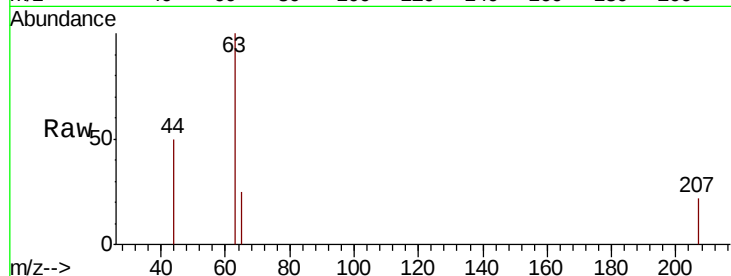
Tot Ion: 63 Resp: 1960

Ion Ratio Lower Upper

63 100

98 0.0 3.8 11.4#

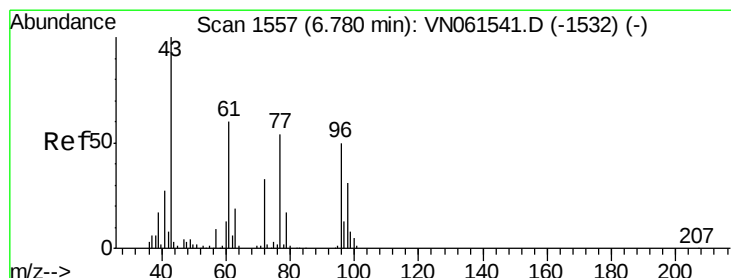
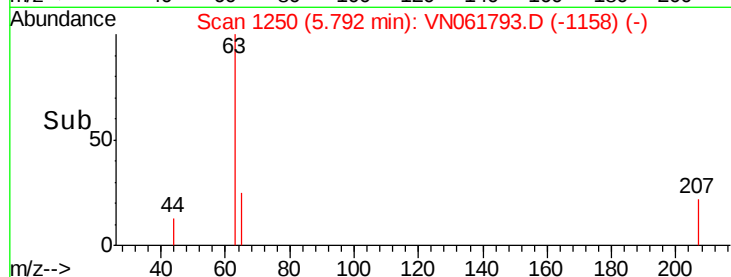
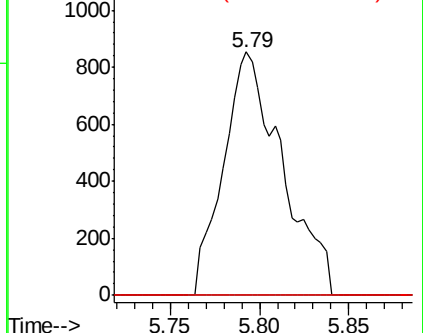
100 0.0 2.5 7.6#



Abundance Ion 62.90 (62.60 to 63.60): VN061793.D (-1158) (-)

Ion 97.90 (97.60 to 98.60): VN061793.D (-1158) (-)

Ion 99.90 (99.60 to 100.60): VN061793.D (-1158) (-)



#27

cis-1,2-Dichloroethene

Concen: 3.744 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.01 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

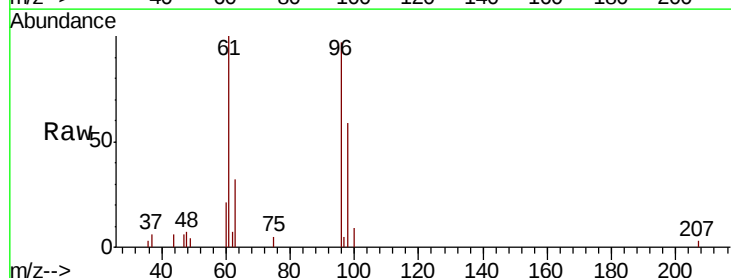
Tgt Ion: 96 Resp: 13362

Ion Ratio Lower Upper

96 100

61 110.3 0.0 252.2

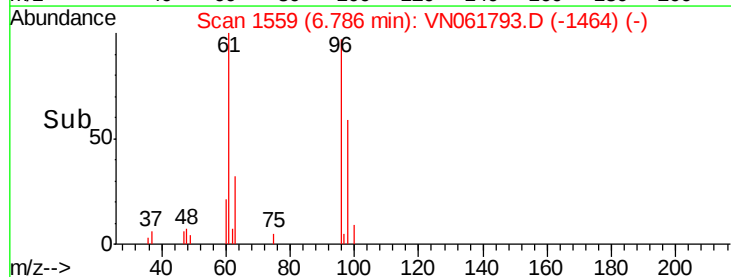
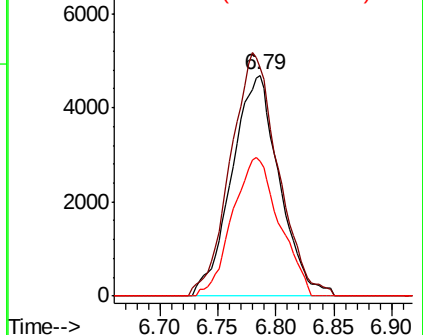
98 61.8 0.0 129.2

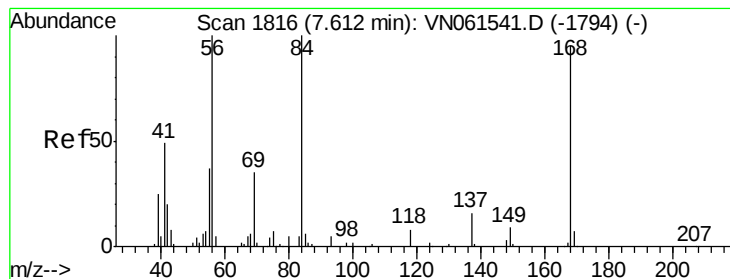


Abundance Ion 95.90 (95.60 to 96.60): VN061793.D (-1464) (-)

Ion 60.90 (60.60 to 61.60): VN061793.D (-1464) (-)

Ion 97.90 (97.60 to 98.60): VN061793.D (-1464) (-)





#31

Cyclohexane

Concen: 1.082 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

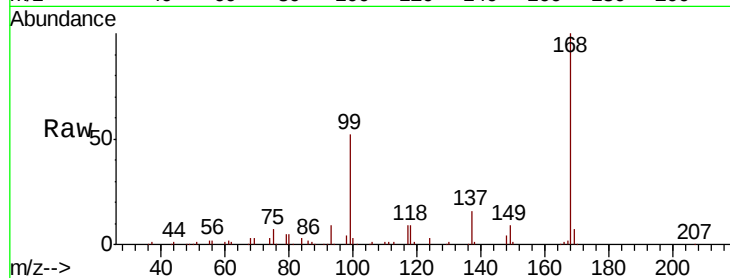
Tot Ion: 56 Resp: 4968

Ion Ratio Lower Upper

56 100

69 164.1 27.8 41.8#

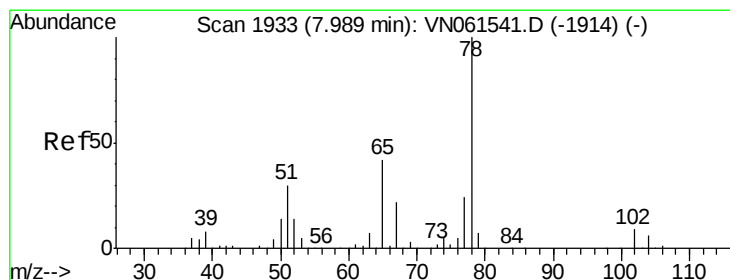
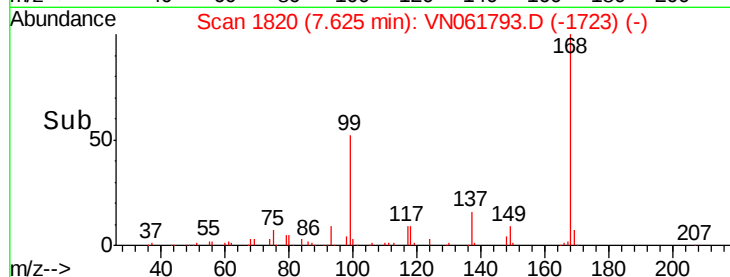
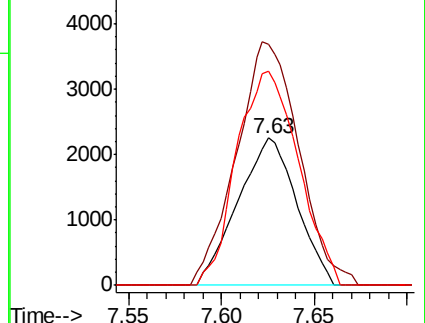
84 145.2 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061793.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061793.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061793.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.208 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061793.D

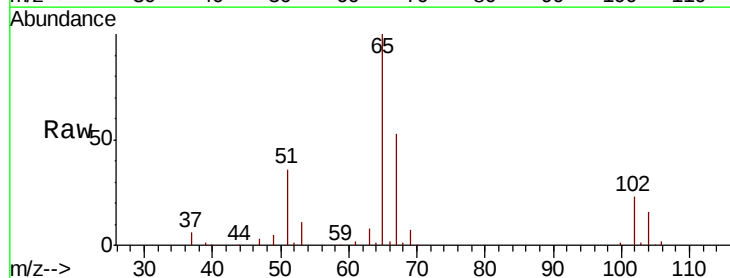
Acq: 12 Jun 2020 16:00

Tgt Ion: 65 Resp: 153830

Ion Ratio Lower Upper

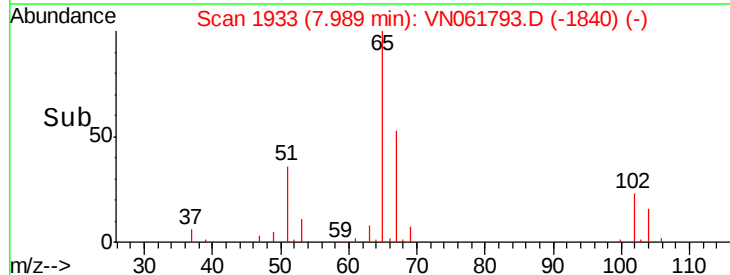
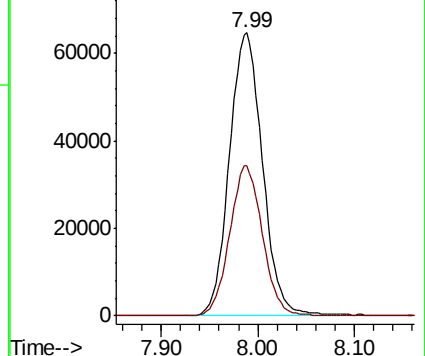
65 100

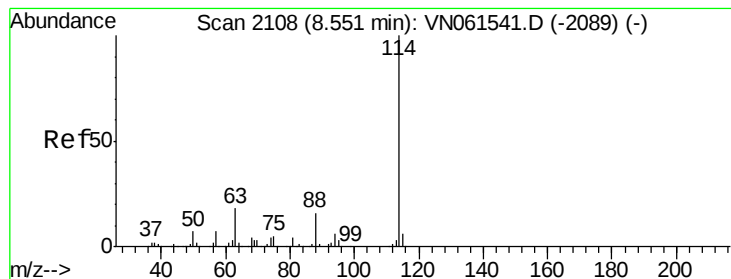
67 52.4 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061793.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061793.D (-1840) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

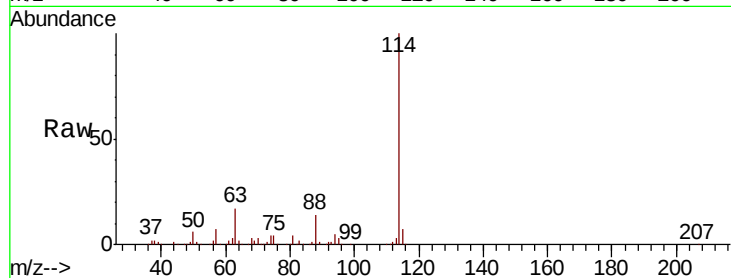
Tot Ion:114 Resp: 459368

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.8

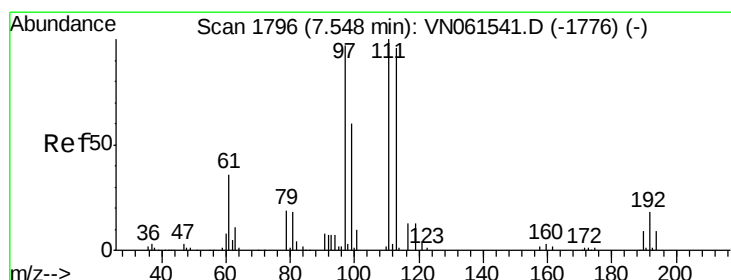
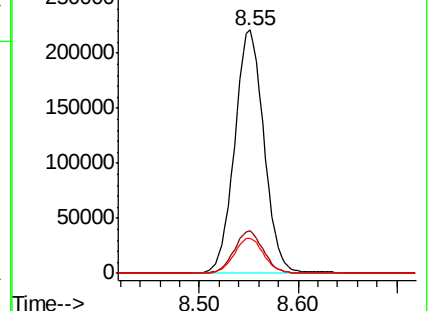
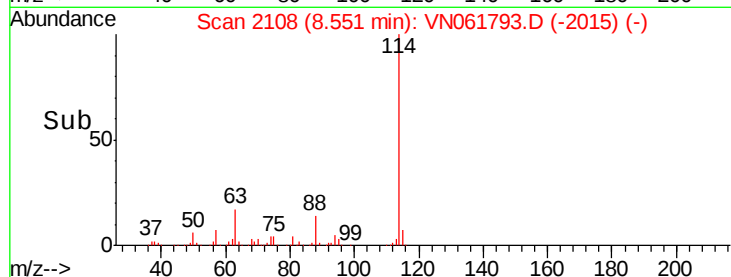
88 14.3 0.0 31.0



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: 56.638 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

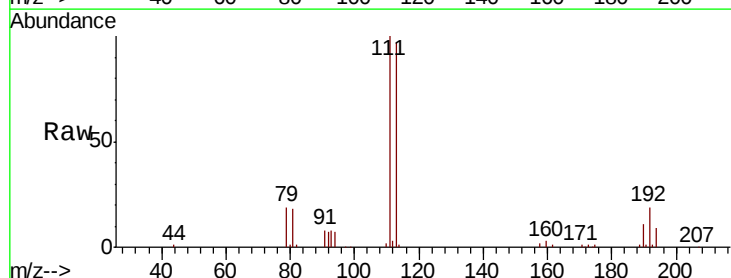
Tgt Ion:113 Resp: 131984

Ion Ratio Lower Upper

113 100

111 100.8 83.4 125.0

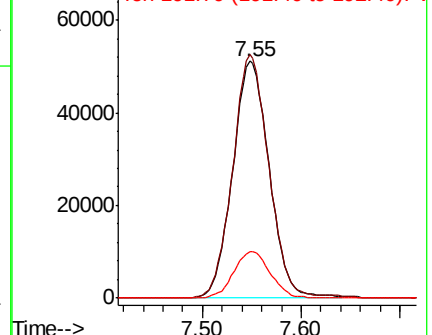
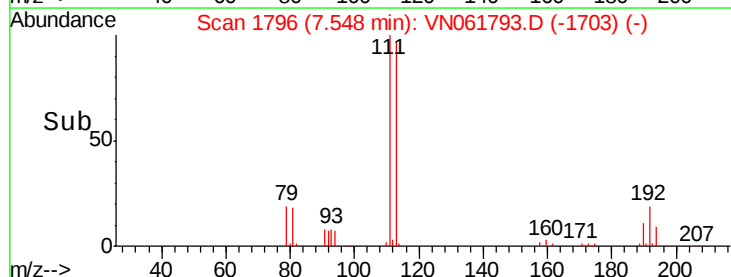
192 19.6 15.4 23.2

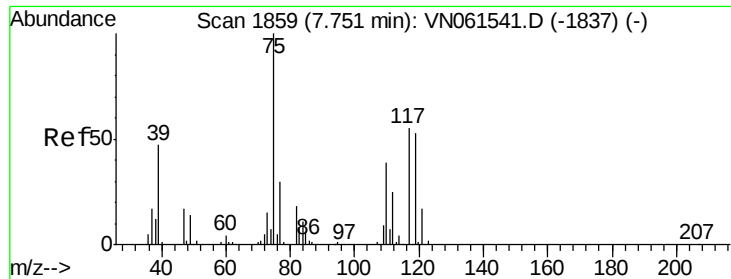


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

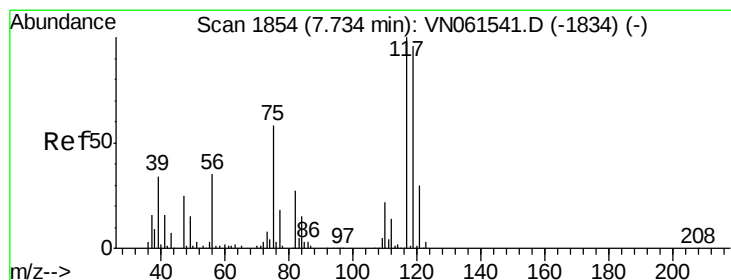
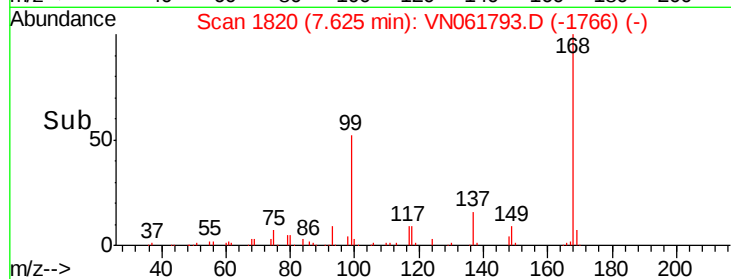
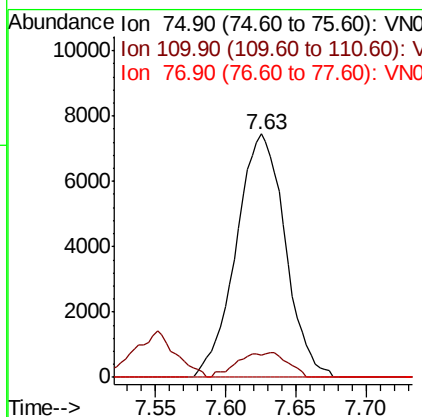
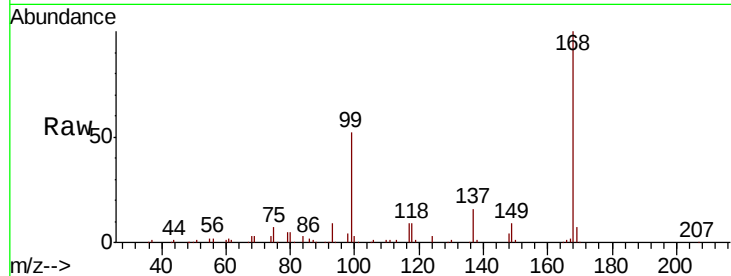




#36
 1,1-Dichloropropene
 Concen: 4.453 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

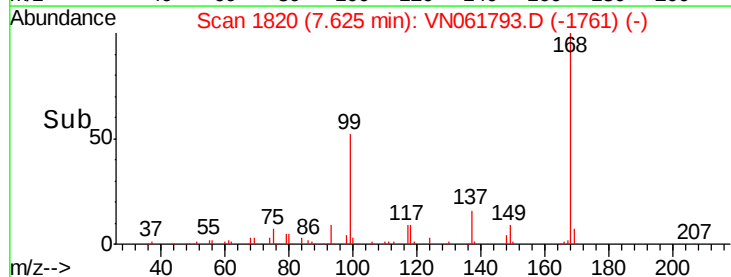
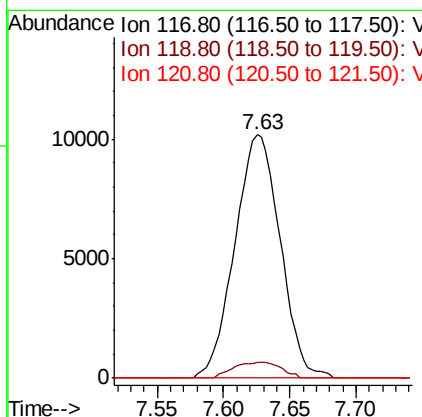
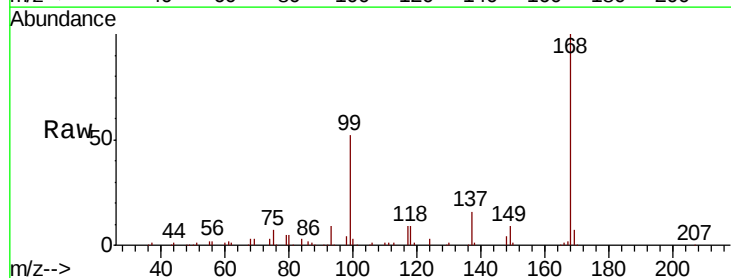
Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200609

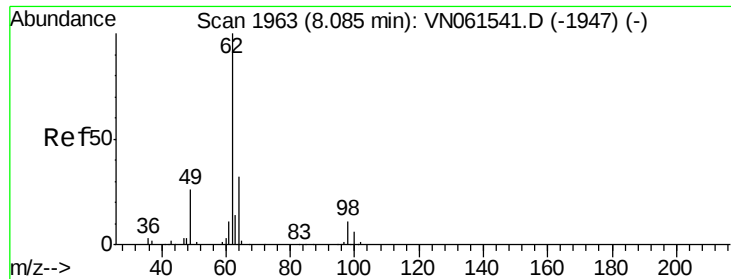
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.3	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.168 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	76.5	114.7#
121	0.0	24.1	36.1#

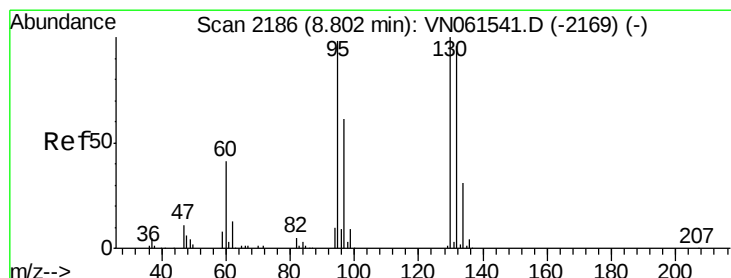
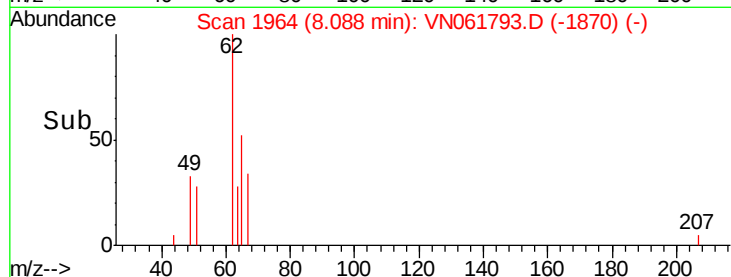
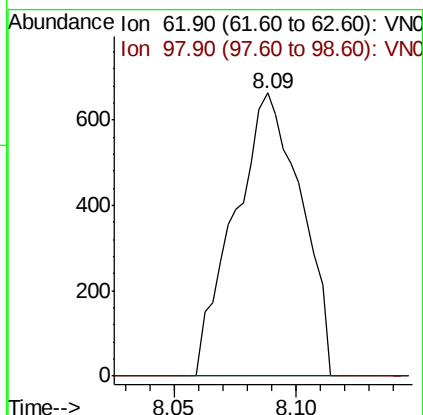
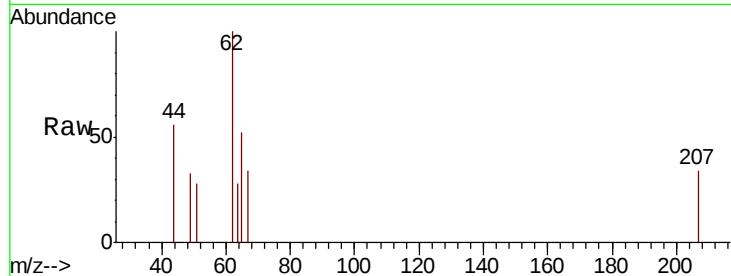




#42
 1,2-Dichloroethane
 Concen: 0.298 ug/l
 RT: 8.09 min Scan# 1964
 Delta R.T. 0.00 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

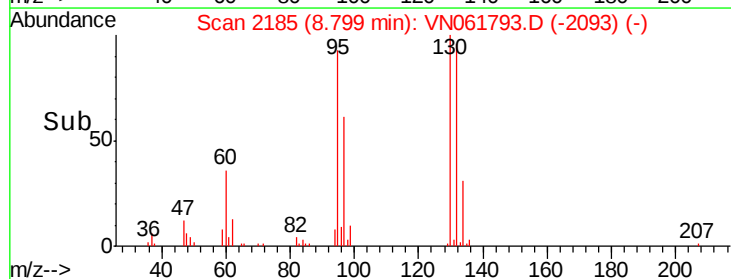
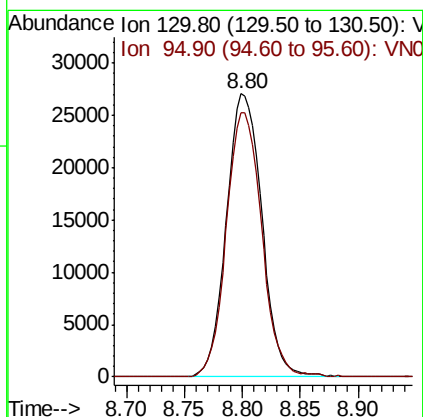
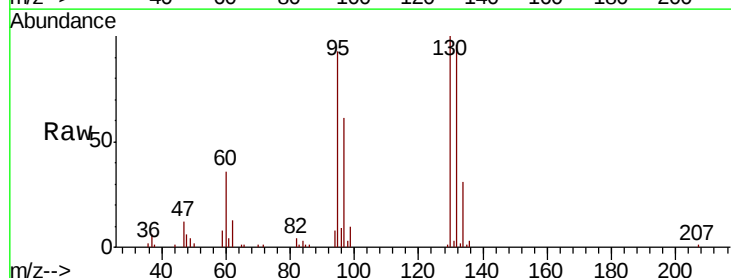
Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200609

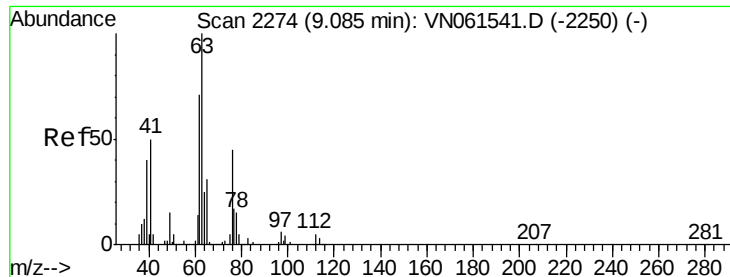
Tot Ion: 62 Resp: 1252
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 21.4



#44
 Trichloroethene
 Concen: 14.907 ug/l
 RT: 8.80 min Scan# 2185
 Delta R.T. -0.00 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

Tgt Ion:130 Resp: 57483
 Ion Ratio Lower Upper
 130 100
 95 93.3 0.0 196.6

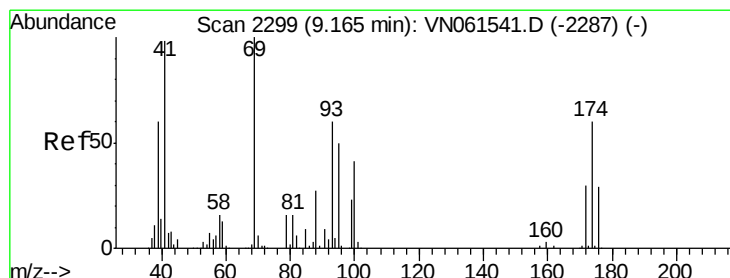
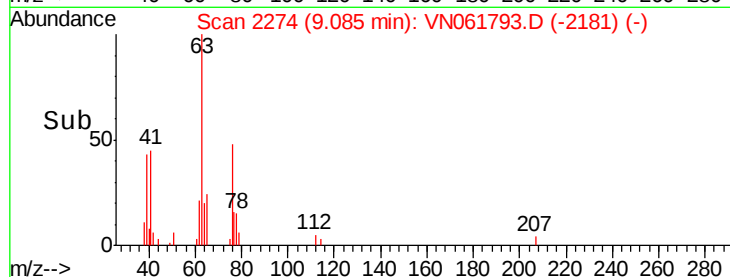
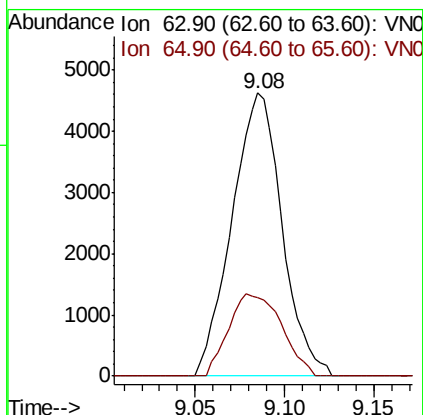
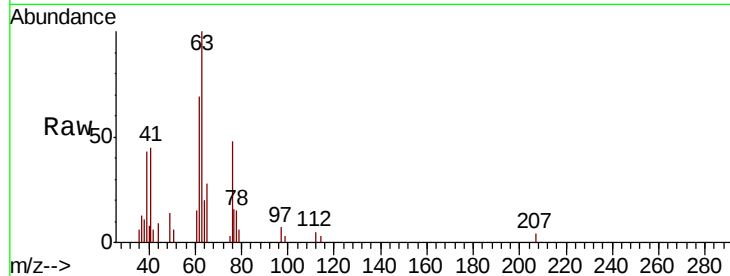




#45
 1,2-Dichloropropane
 Concen: 3.033 ug/l
 RT: 9.08 min Scan# 2274
 Delta R.T. 0.00 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

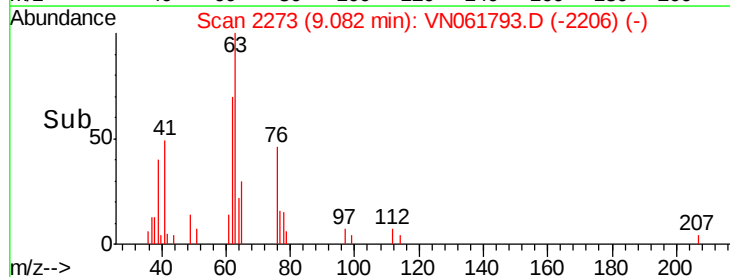
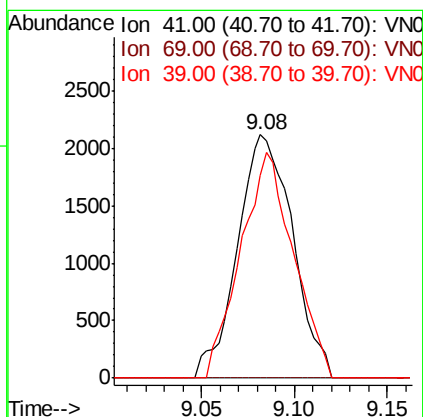
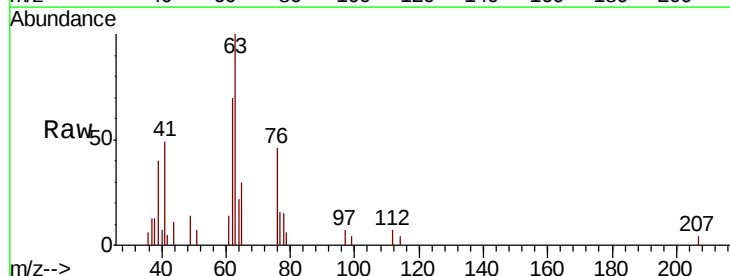
Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200609

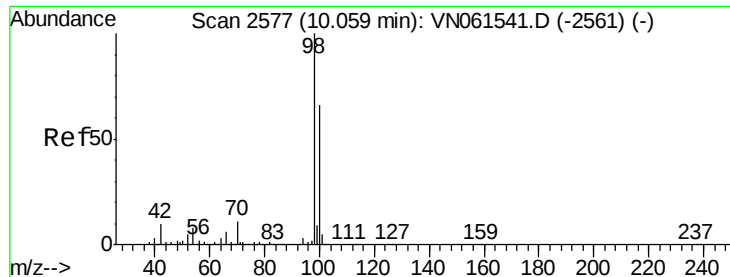
Tot Ion: 63 Resp: 9038
 Ion Ratio Lower Upper
 63 100
 65 27.8 24.7 37.1



#48
 Methyl methacrylate
 Concen: 1.649 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. -0.08 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

Tgt Ion: 41 Resp: 4371
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.9 125.9#
 39 88.9 52.1 78.1#





#50

Toluene-d8

Concen: 51.327 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

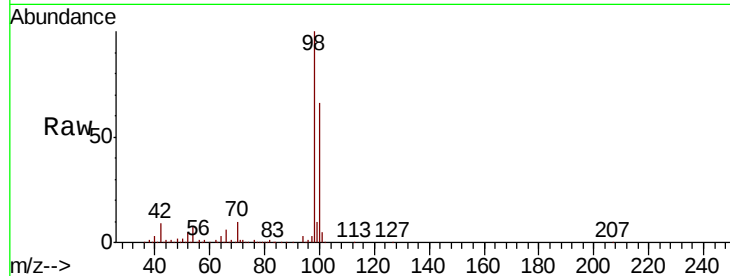
RE135D3-20200609

Tot Ion: 98 Resp: 554273

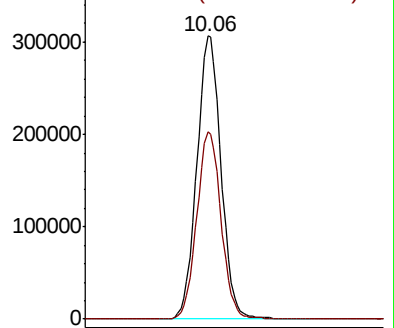
Ion Ratio Lower Upper

98 100

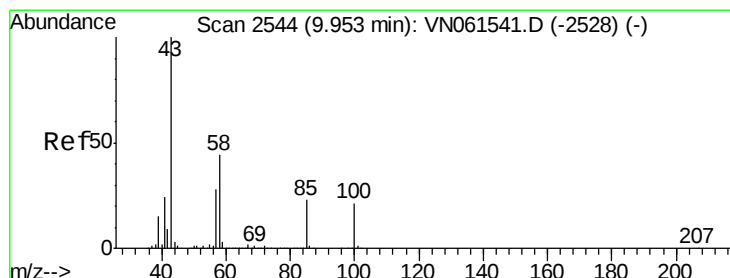
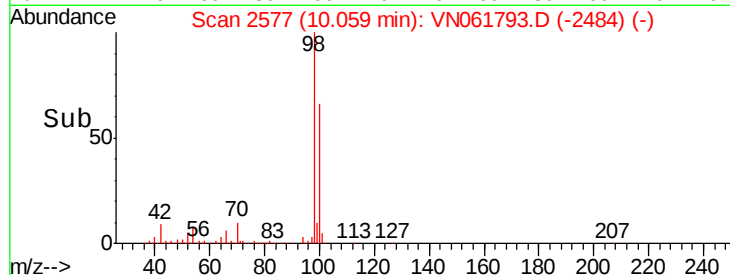
100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.616 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061793.D

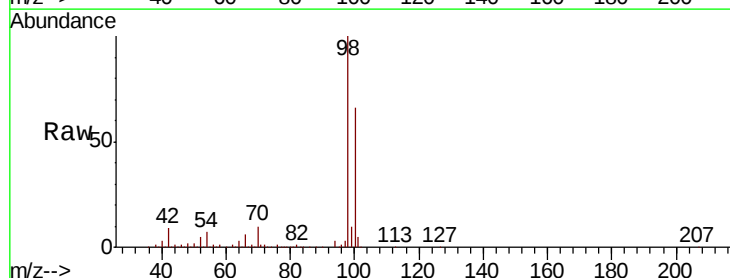
Acq: 12 Jun 2020 16:00

Tgt Ion: 43 Resp: 2046

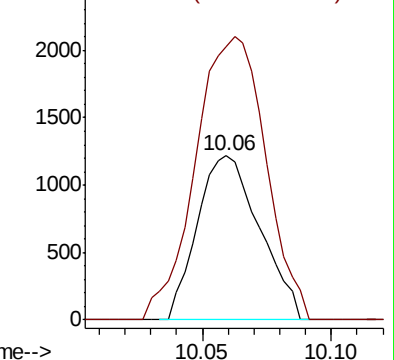
Ion Ratio Lower Upper

43 100

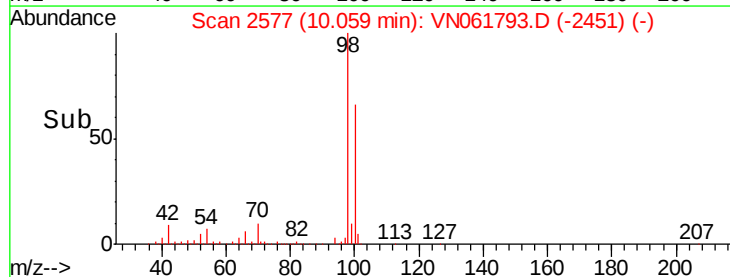
58 194.4 35.0 52.6#

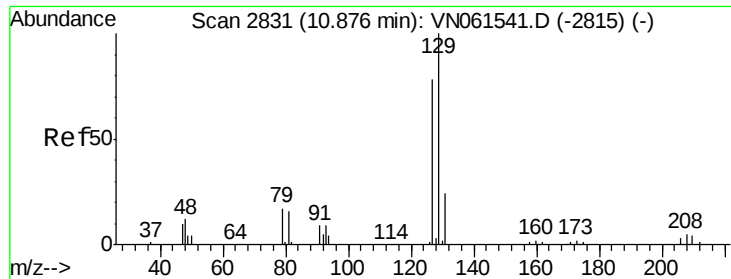


Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)



Time-->

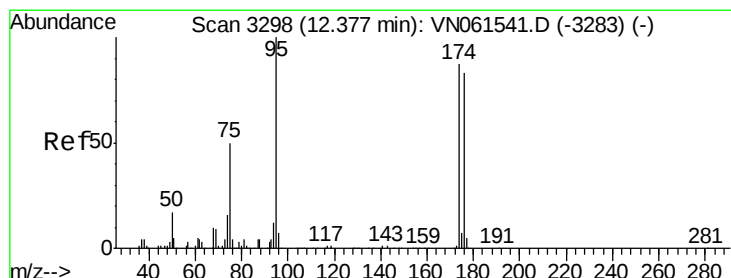
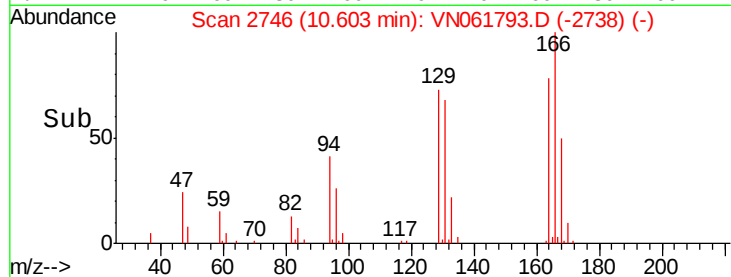
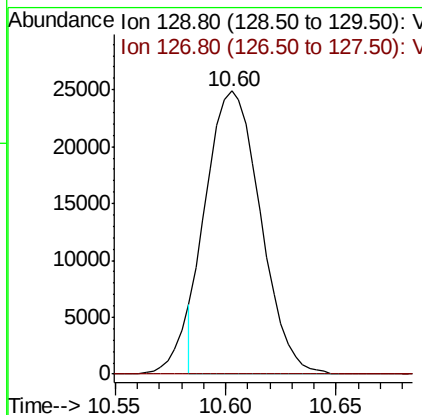
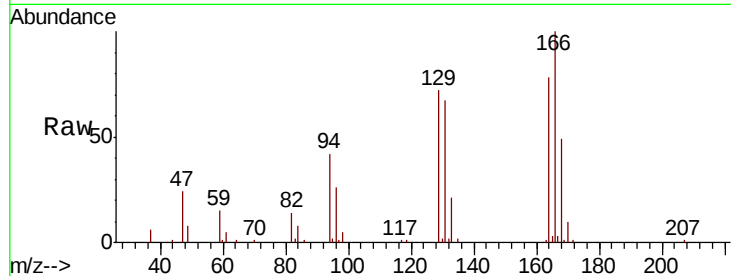




#60
 Dibromochloromethane
 Concen: 11.369 ug/l
 RT: 10.60 min Scan# 2746
 Delta R.T. -0.27 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

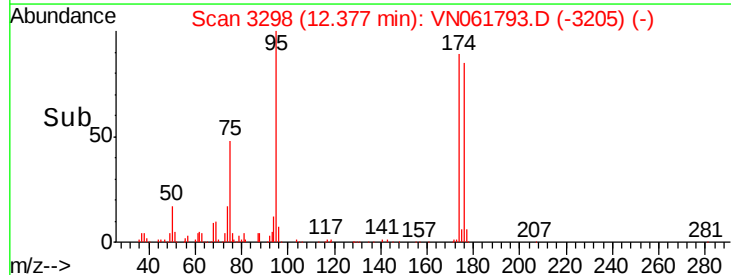
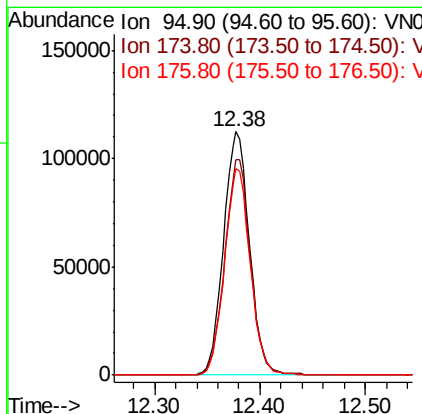
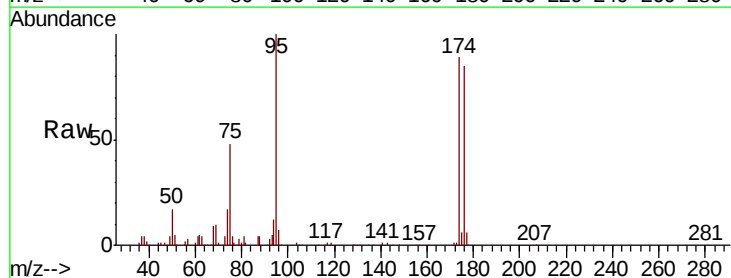
Instrument :
 MSVOA_N
 ClientSampleId :
 RE135D3-20200609

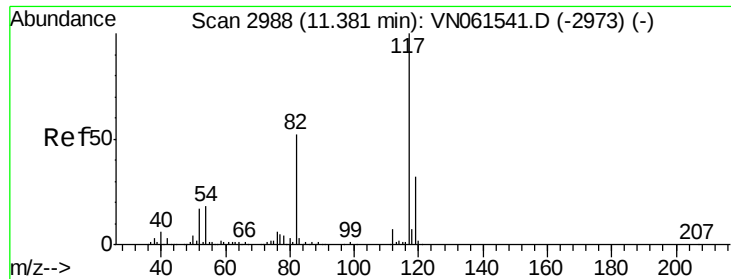
Tot Ion:129 Resp: 42171
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.3#



#62
 4-Bromofluorobenzene
 Concen: 48.400 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061793.D
 Acq: 12 Jun 2020 16:00

Tgt Ion: 95 Resp: 190687
 Ion Ratio Lower Upper
 95 100
 174 87.4 0.0 172.8
 176 83.8 0.0 164.8

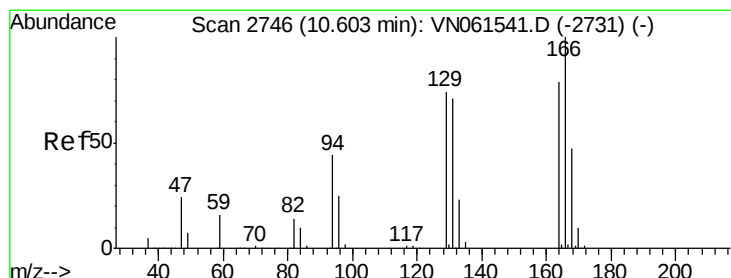
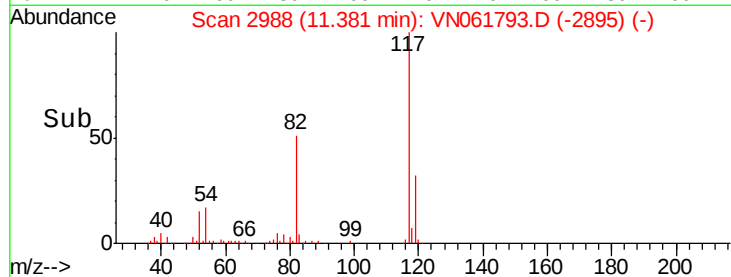
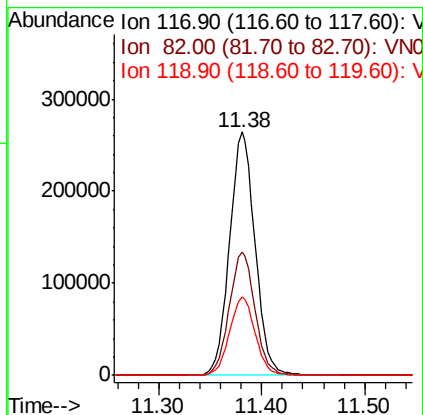
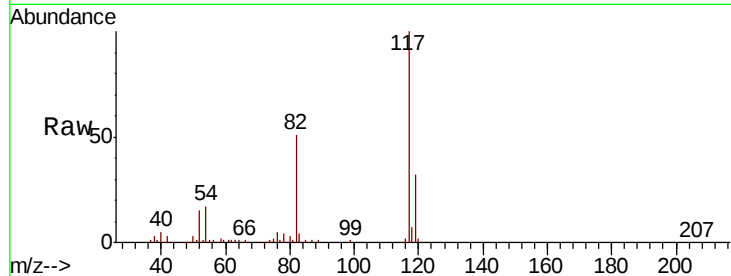




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061793.D
Acq: 12 Jun 2020 16:00

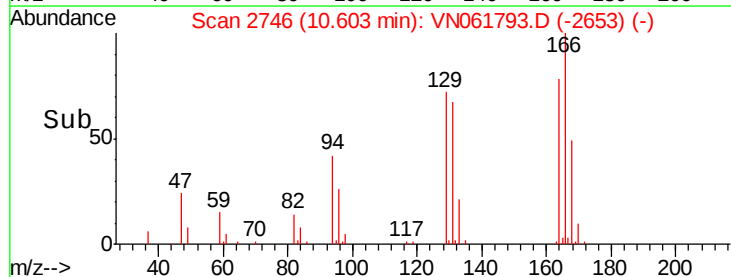
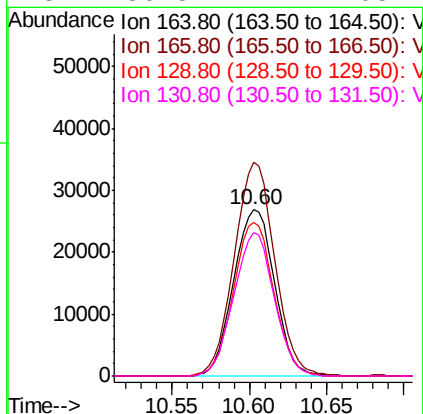
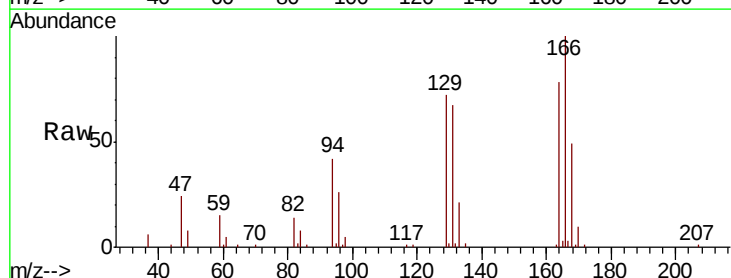
Instrument :
MSVOA_N
ClientSampleId :
RE135D3-20200609

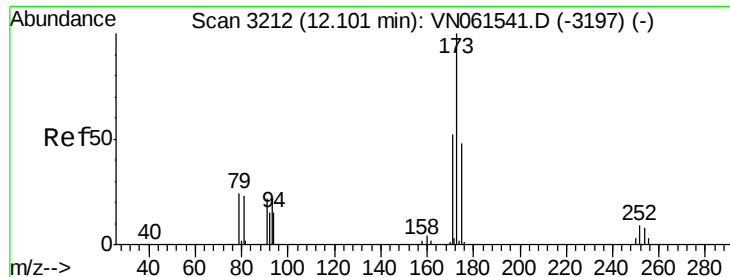
Tot Ion:117 Resp: 455616
Ion Ratio Lower Upper
117 100
82 50.7 41.5 62.3
119 32.0 25.6 38.4



#64
Tetrachloroethene
Concen: 11.563 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061793.D
Acq: 12 Jun 2020 16:00

Tgt Ion:164 Resp: 49593
Ion Ratio Lower Upper
164 100
166 128.8 101.5 152.3
129 92.8 74.9 112.3
131 86.8 72.2 108.2





#71

Bromoform

Concen: 0.732 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

RE135D3-20200609

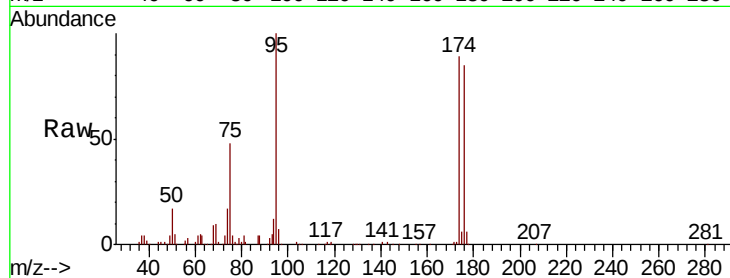
Tot Ion:173 Resp: 1988

Ion Ratio Lower Upper

173 100

175 511.3 24.4 73.2#

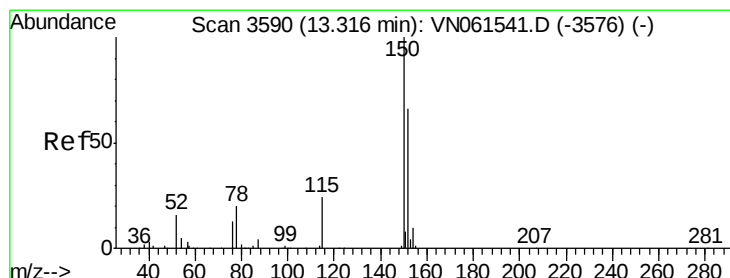
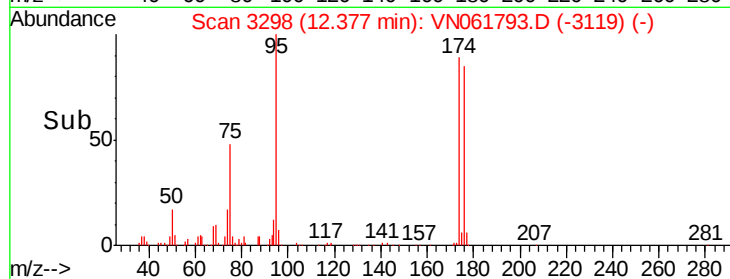
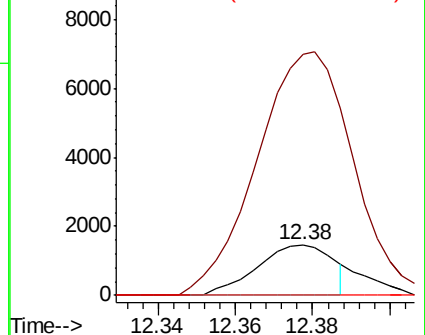
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

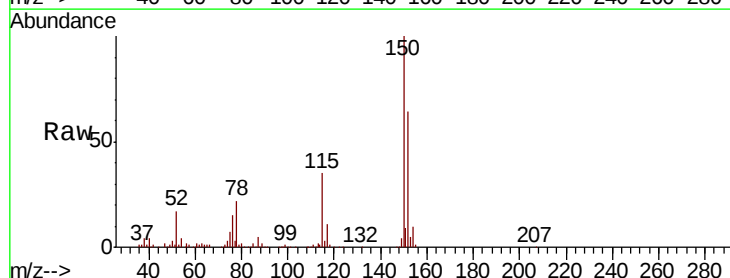
Tgt Ion:152 Resp: 201974

Ion Ratio Lower Upper

152 100

115 55.9 28.0 84.0

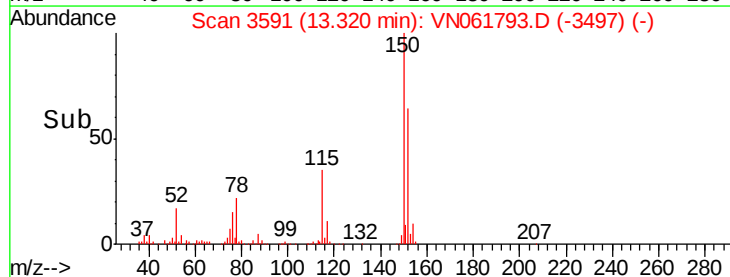
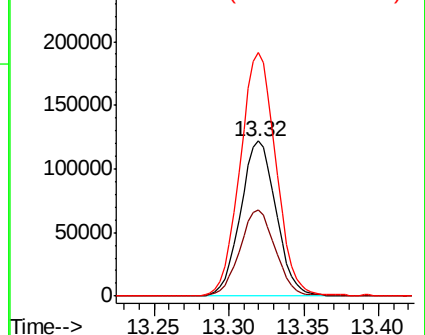
150 158.1 0.0 344.0

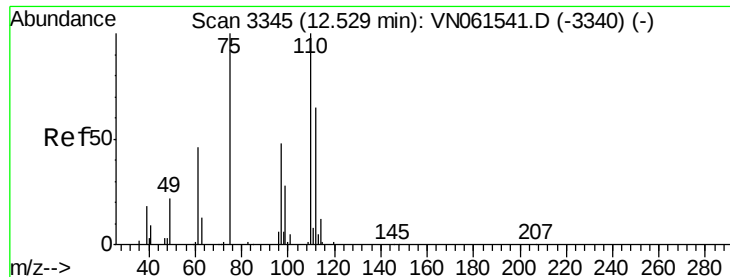


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.740 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

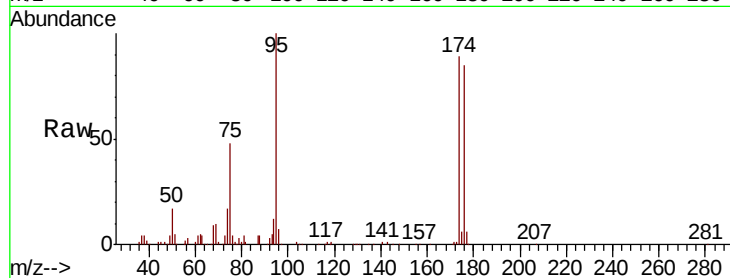
RE135D3-20200609

Tot Ion: 75 Resp: 90861

Ion Ratio Lower Upper

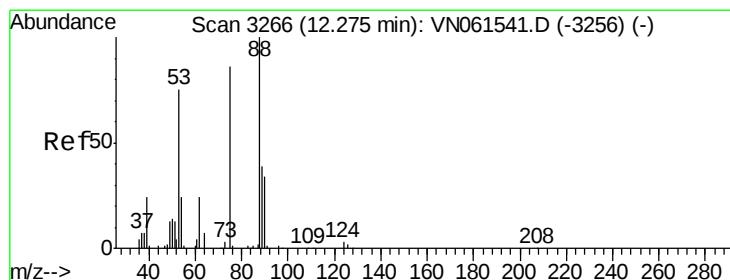
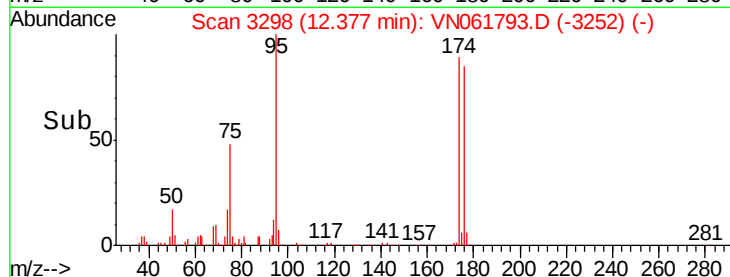
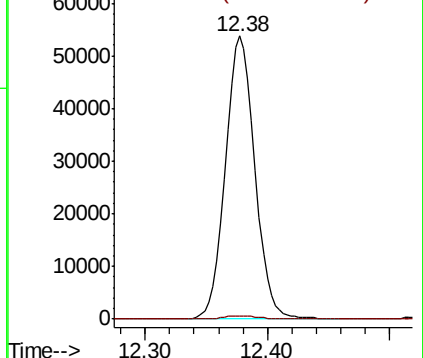
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 63.266 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061793.D

Acq: 12 Jun 2020 16:00

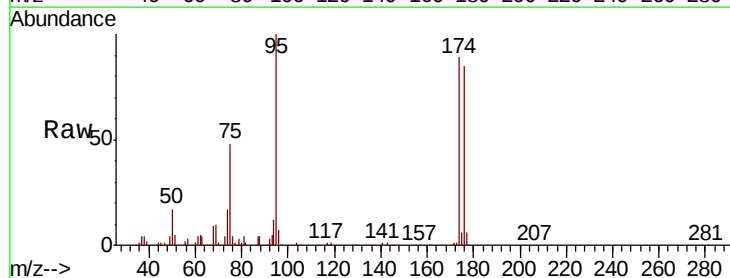
Tgt Ion: 75 Resp: 90861

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



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

