

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061220\
 Data File : VN061803.D
 Acq On : 12 Jun 2020 19:54
 Operator : JC/MD
 Sample : L2989-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20200609

Quant Time: Jun 13 05:15:18 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

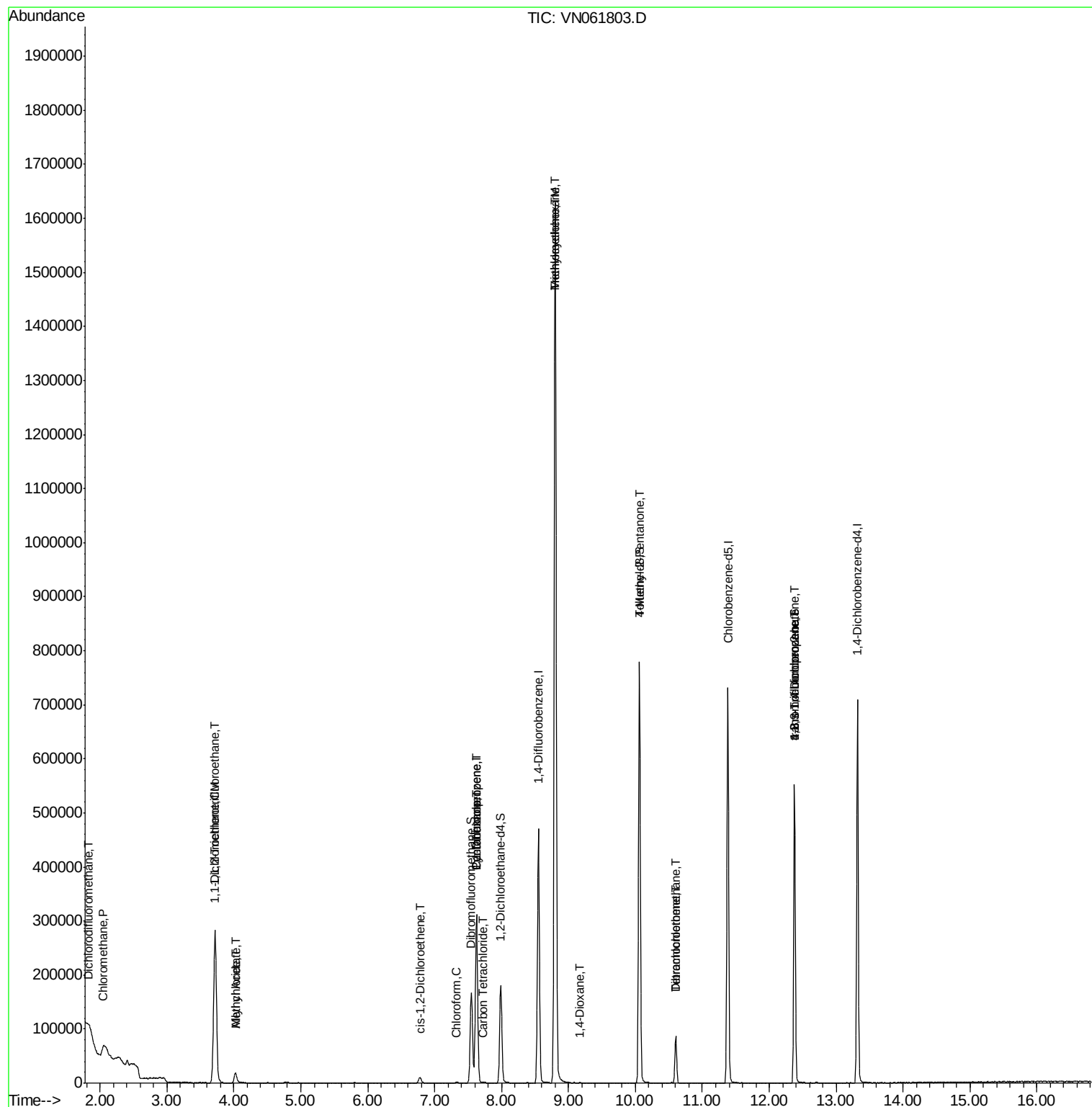
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	264390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458763	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	459184	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	200424	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	155190	49.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.54%	
35) Dibromofluoromethane	7.55	113	129671	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.44%	
50) Toluene-d8	10.06	98	557522	51.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.40%	
62) 4-Bromofluorobenzene	12.38	95	190594	48.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.88%	
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	1.83	85	853	1.421	ug/l	87
3) Chloromethane	2.04	50	836	0.259	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.72	101	174082	68.842	ug/l	96
12) 1,1-Dichloroethene	3.70	96	1893	0.701	ug/l #	65
14) Allyl chloride	4.02	41	1280	0.362	ug/l #	1
16) Acetone	3.78	43	4543	Below Cal		96
18) Methyl Acetate	4.02	43	7473	2.621	ug/l #	46
20) Methylene Chloride	4.50	84	99	Below Cal	#	58
27) cis-1,2-Dichloroethene	6.78	96	6716	1.947	ug/l	90
30) Chloroform	7.33	83	1160	0.212	ug/l #	81
31) Cyclohexane	7.62	56	4549	1.025	ug/l #	27
36) 1,1-Dichloropropene	7.63	75	18205	4.483	ug/l #	48
38) Carbon Tetrachloride	7.73	117	1644	0.420	ug/l #	80
39) Methylcyclohexane	8.80	83	6985	1.395	ug/l #	1
44) Trichloroethene	8.80	130	648389	168.368	ug/l	95
49) 1,4-Dioxane	9.17	88	506	12.336	ug/l #	60
51) 4-Methyl-2-Pentanone	10.06	43	1762	0.531	ug/l #	1
60) Dibromochloromethane	10.60	129	18270	4.932	ug/l #	11
64) Tetrachloroethene	10.60	164	20769	4.805	ug/l	94
76) 1,2,3-Trichloropropane	12.38	75	92159	25.287	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	92159	64.666	ug/l #	15

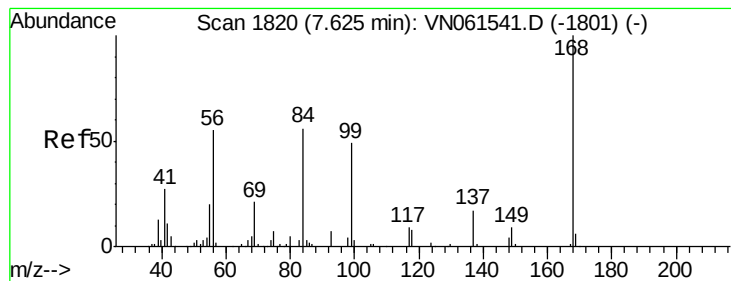
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

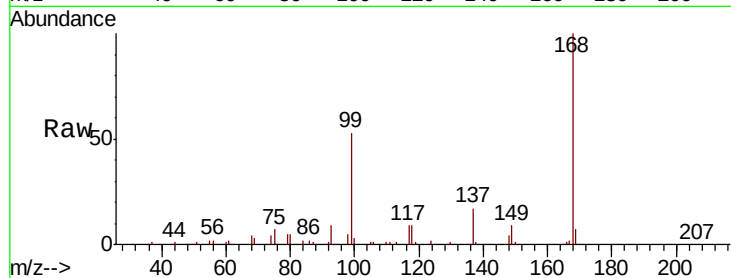
RE125D3-20200609

Tot Ion:168 Resp: 264390

Ion Ratio Lower Upper

168 100

99 53.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

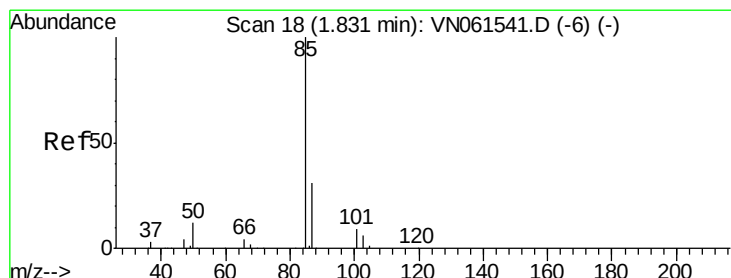
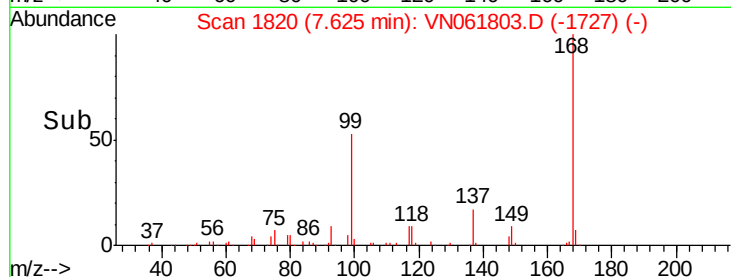
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.421 ug/l

RT: 1.83 min Scan# 18

Delta R.T. 0.00 min

Lab File: VN061803.D

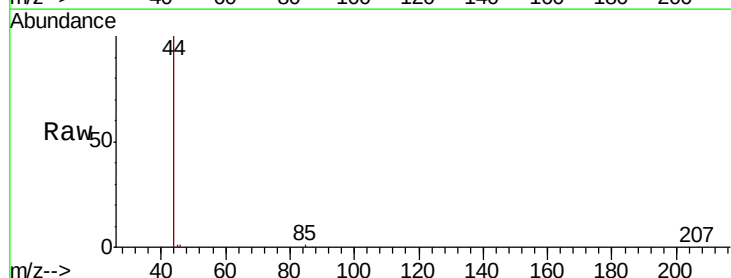
Acq: 12 Jun 2020 19:54

Tgt Ion: 85 Resp: 853

Ion Ratio Lower Upper

85 100

87 38.2 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

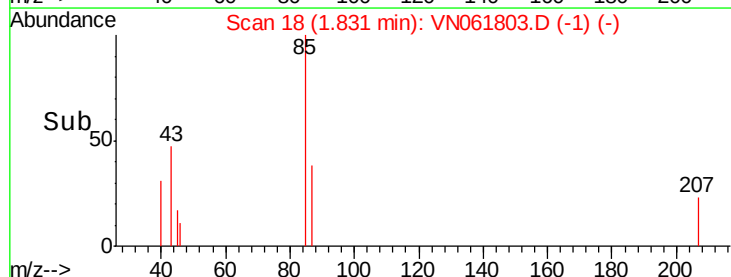
600

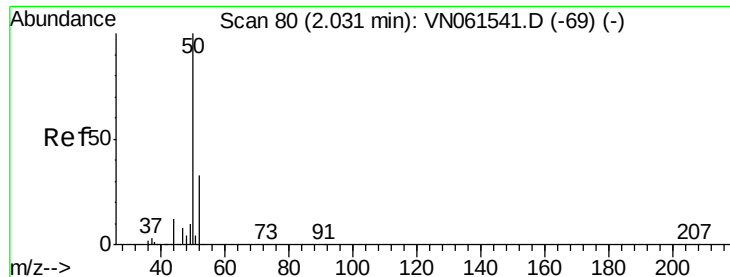
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.259 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.01 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

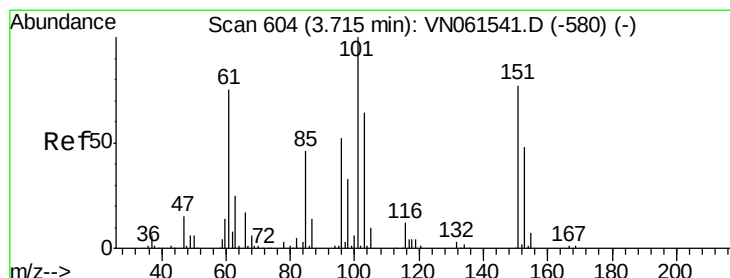
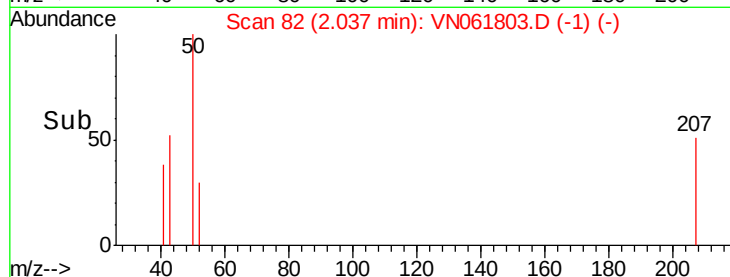
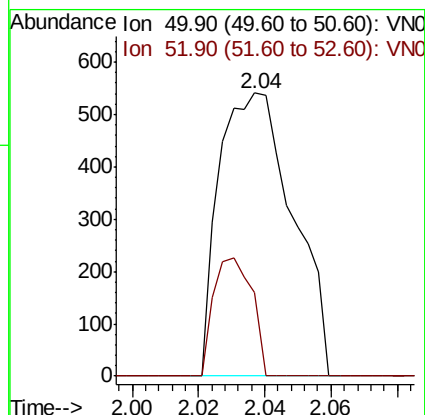
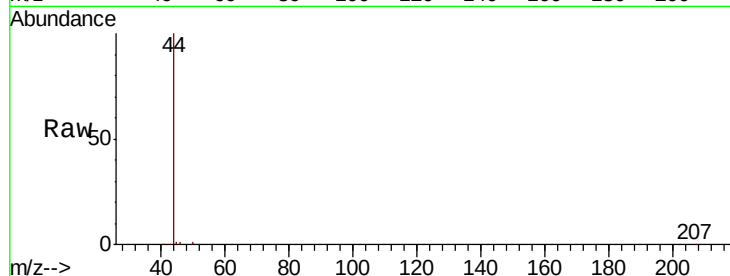
RE125D3-20200609

Tot Ion: 50 Resp: 836

Ion Ratio Lower Upper

50 100

52 29.8 26.7 40.1



#9

1,1,2-Trichlorotrifluoroethane

Concen: 68.842 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

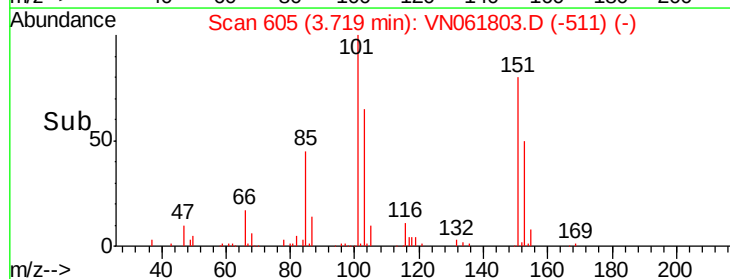
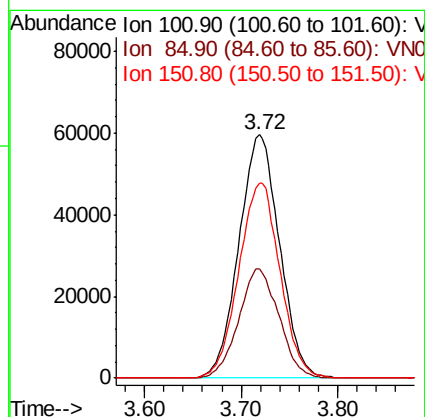
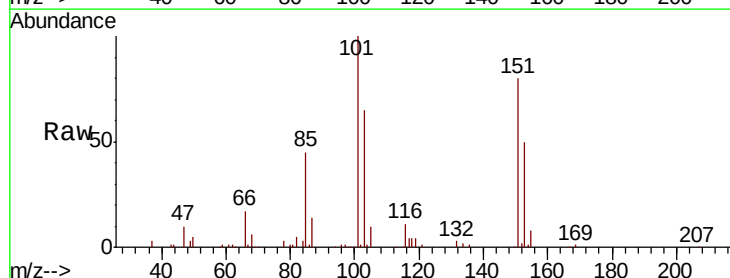
Tgt Ion: 101 Resp: 174082

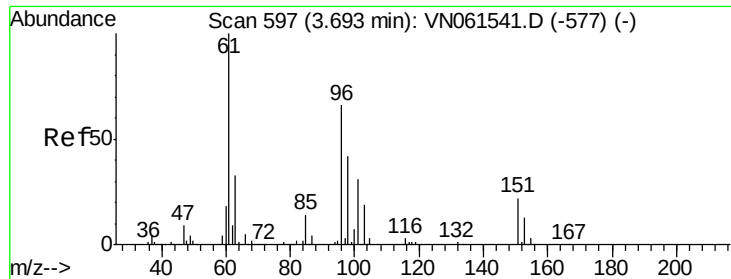
Ion Ratio Lower Upper

101 100

85 44.4 35.2 52.8

151 81.2 61.0 91.6

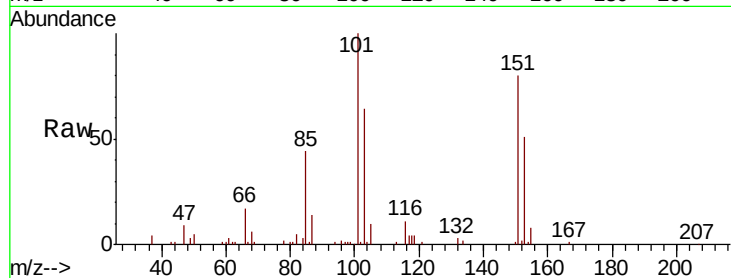




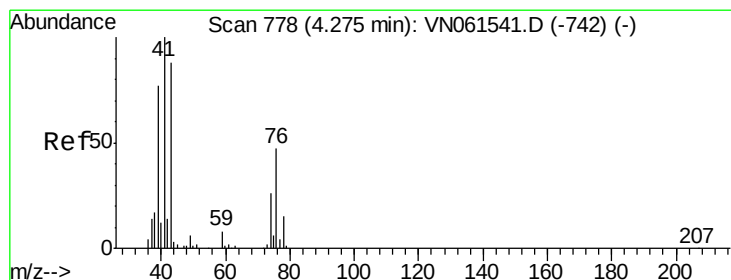
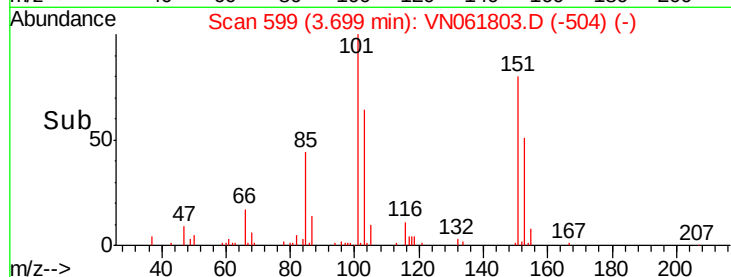
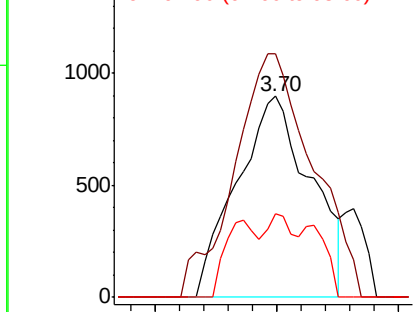
#12
 1,1-Dichloroethene
 Concen: 0.701 ug/l
 RT: 3.70 min Scan# 599
 Delta R.T. 0.01 min
 Lab File: VN061803.D
 Acq: 12 Jun 2020 19:54

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20200609

Tot Ion	96	Resp	1893
Ion	Ratio	Lower	Upper
96	100		
61	102.0	120.5	180.7#
98	41.7	50.8	76.2#

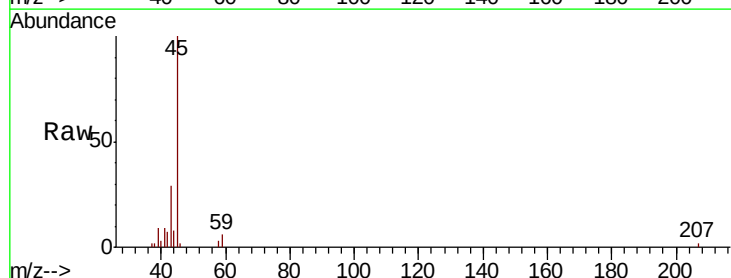


Abundance Ion 95.90 (95.60 to 96.60): VNO
 Ion 60.90 (60.60 to 61.60): VNO
 Ion 97.90 (97.60 to 98.60): VNO

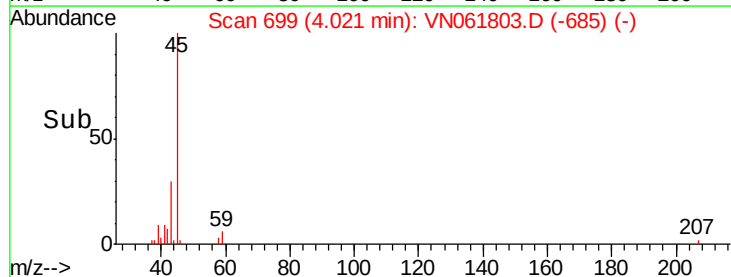
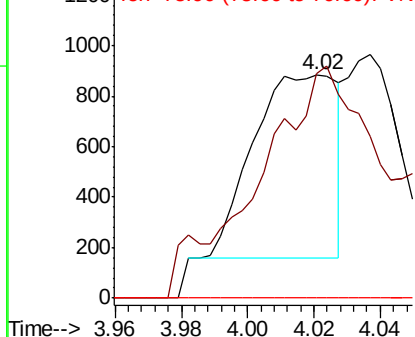


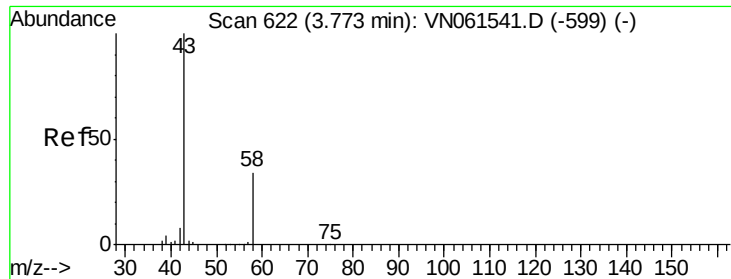
#14
 Allyl chloride
 Concen: 0.362 ug/l
 RT: 4.02 min Scan# 699
 Delta R.T. -0.25 min
 Lab File: VN061803.D
 Acq: 12 Jun 2020 19:54

Tgt Ion	41	Resp	1280
Ion	Ratio	Lower	Upper
41	100		
39	193.3	58.6	88.0#
76	0.0	34.2	51.4#



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





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

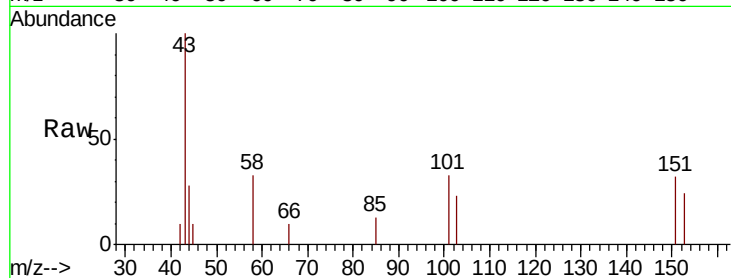
RE125D3-20200609

Tot Ion: 43 Resp: 4543

Ion Ratio Lower Upper

43 100

58 36.5 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN061541.D (-599) (-)

3.78

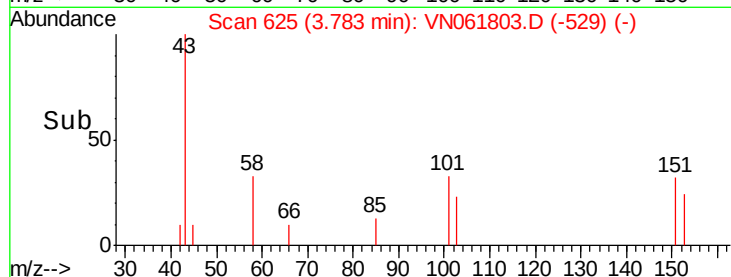
1500

1000

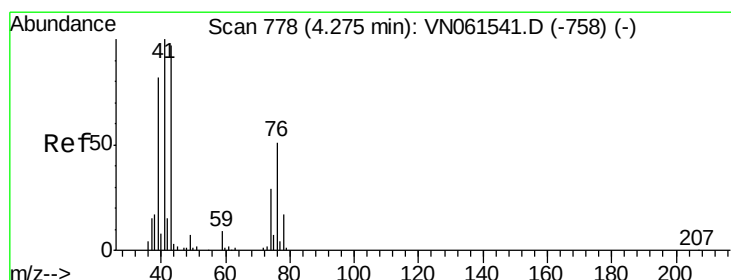
500

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 2.621 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.25 min

Lab File: VN061803.D

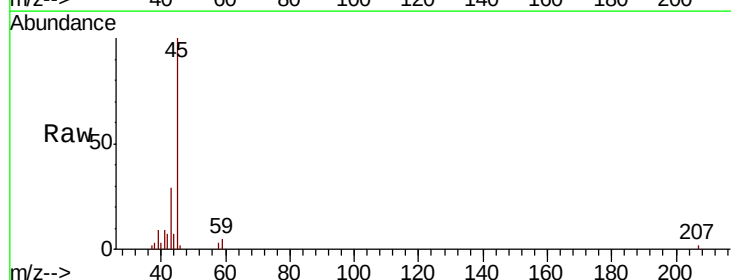
Acq: 12 Jun 2020 19:54

Tgt Ion: 43 Resp: 7473

Ion Ratio Lower Upper

43 100

74 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-758) (-)

Ion 74.00 (73.70 to 74.70): VN061541.D (-758) (-)

4.02

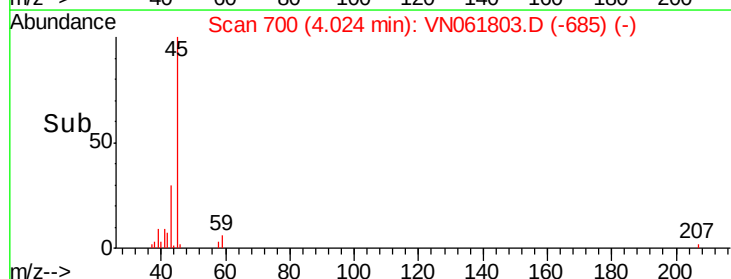
3000

2000

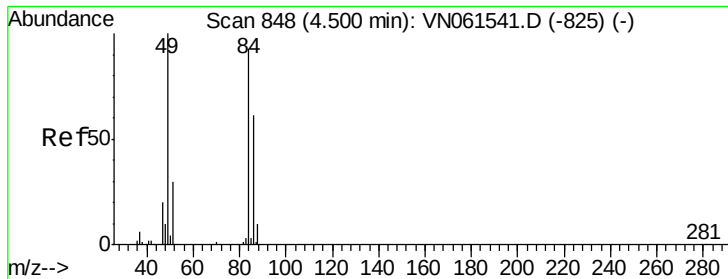
1000

0

Time-->



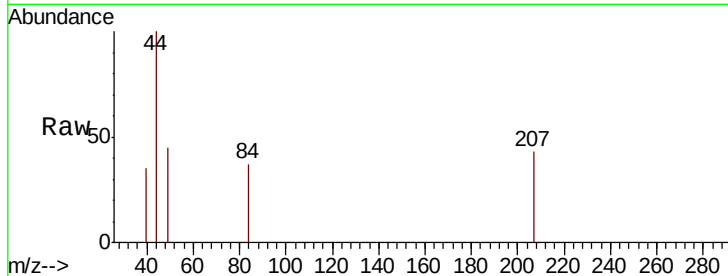
Time-->



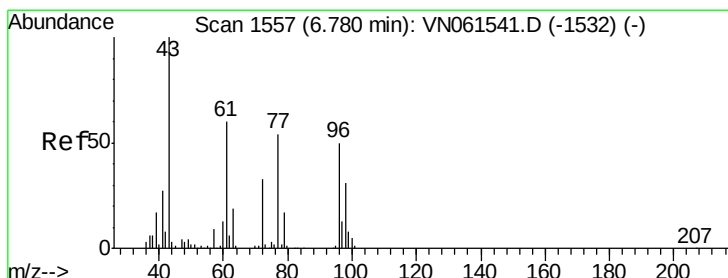
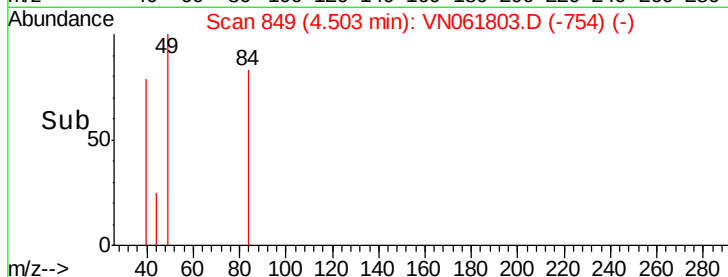
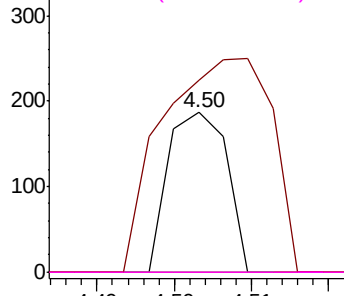
#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200609

Tot Ion: 84 Resp: 99
Ion Ratio Lower Upper
84 100
49 120.3 85.8 128.8
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#

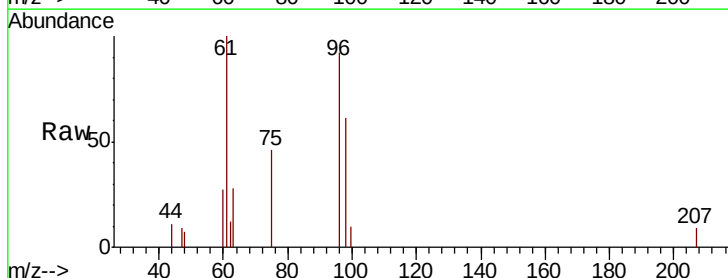


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

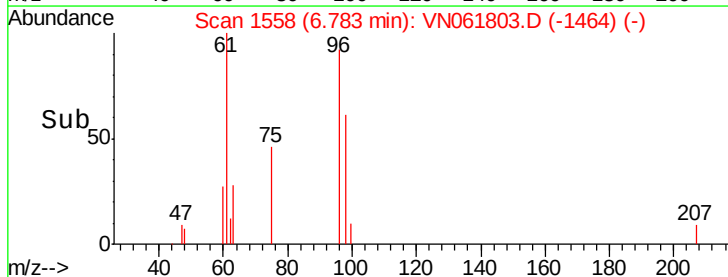
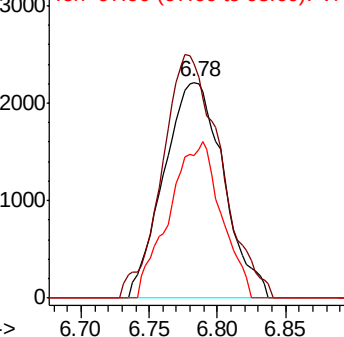


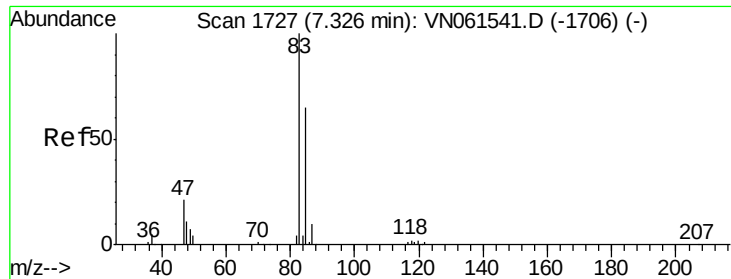
#27
cis-1,2-Dichloroethene
Concen: 1.947 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. 0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion: 96 Resp: 6716
Ion Ratio Lower Upper
96 100
61 110.4 0.0 252.2
98 63.1 0.0 129.2



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

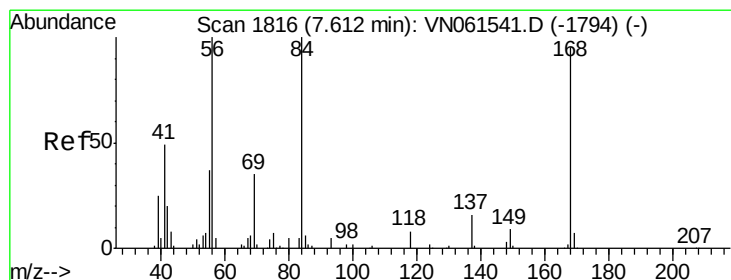
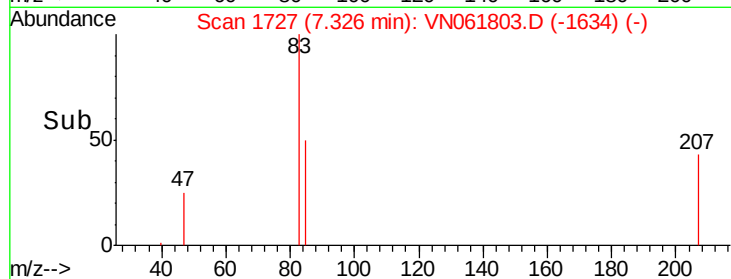
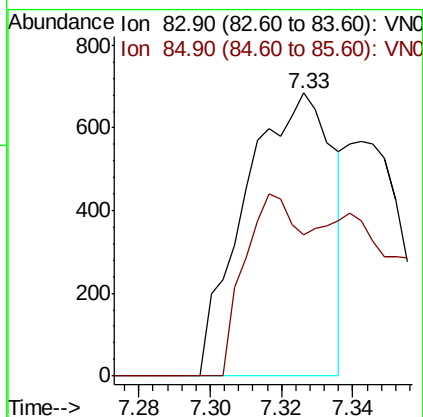
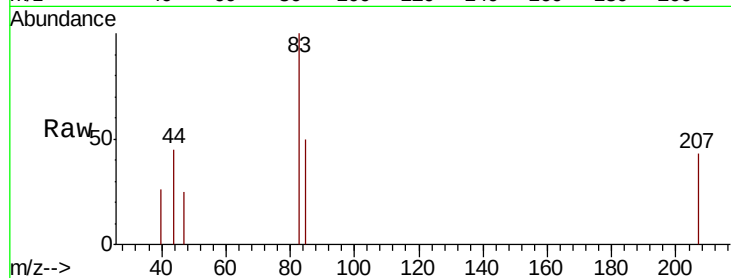




#30
Chloroform
Concen: 0.212 ug/l
RT: 7.33 min Scan# 1727
Delta R.T. -0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

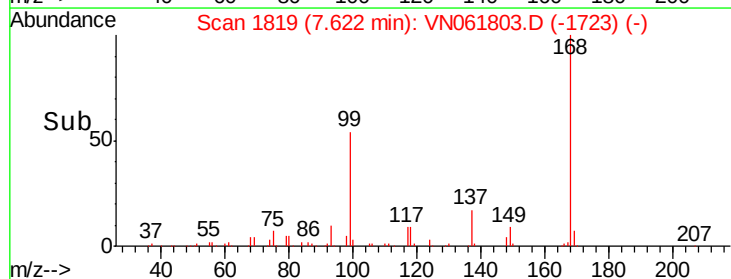
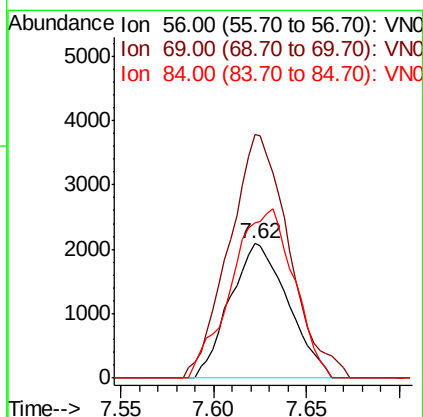
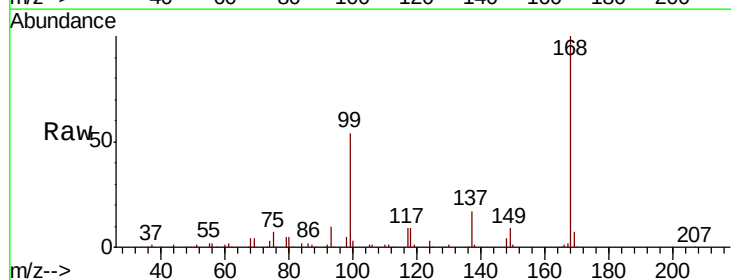
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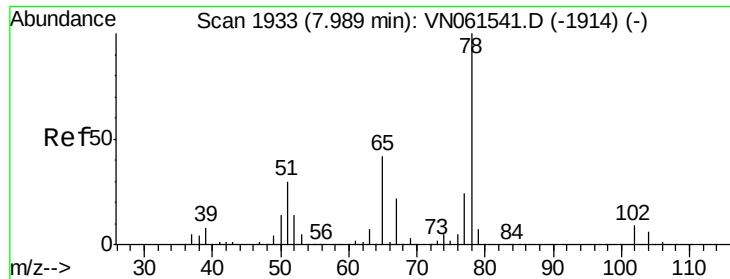
Tot Ion: 83 Resp: 1160
Ion Ratio Lower Upper
83 100
85 49.9 51.7 77.5#



#31
Cyclohexane
Concen: 1.025 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion: 56 Resp: 4549
Ion Ratio Lower Upper
56 100
69 173.4 27.8 41.8#
84 115.1 79.9 119.9

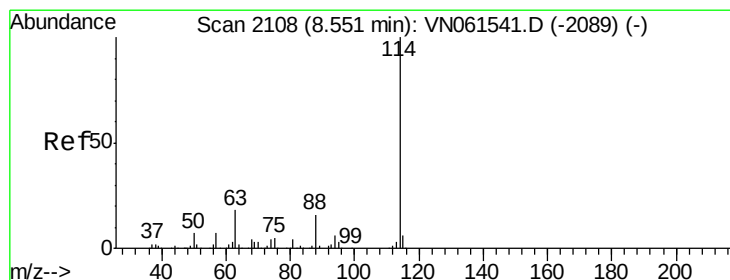
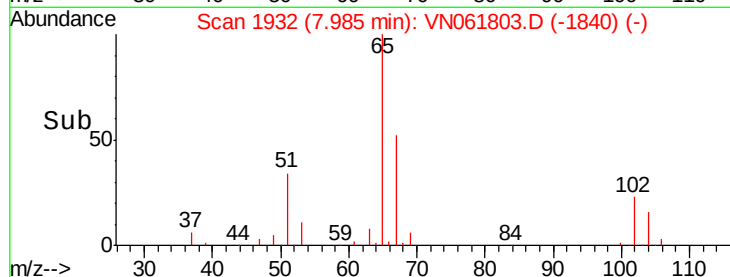
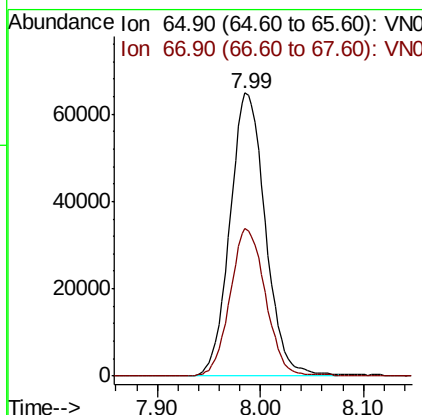
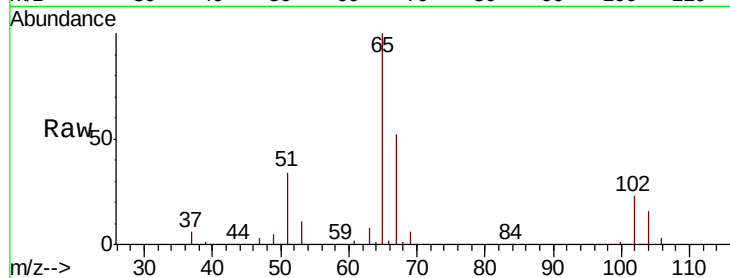




#33
 1,2-Dichloroethane-d4
 Concen: 49.266 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061803.D
 Acq: 12 Jun 2020 19:54

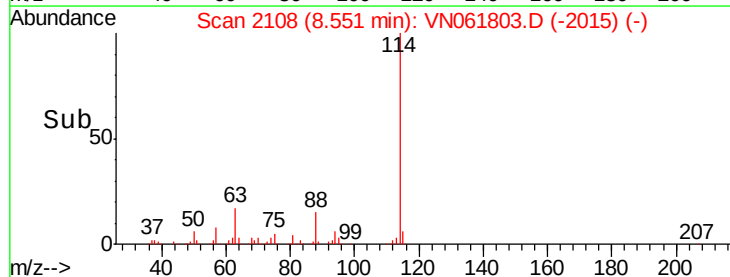
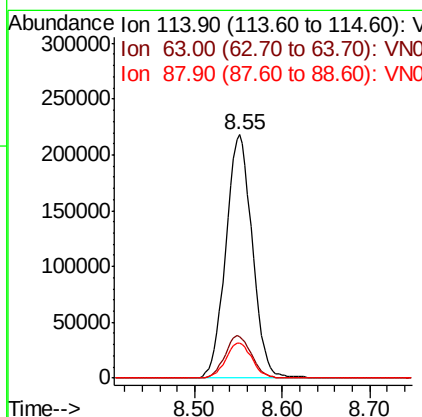
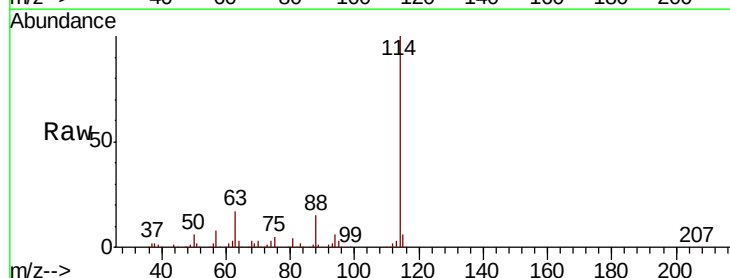
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20200609

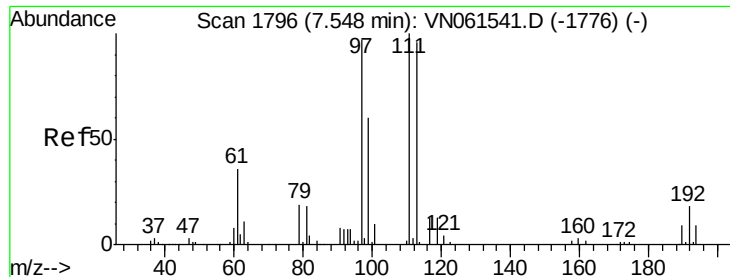
Tot Ion: 65 Resp: 155190
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061803.D
 Acq: 12 Jun 2020 19:54

Tgt Ion: 114 Resp: 458763
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.8
 88 14.6 0.0 31.0

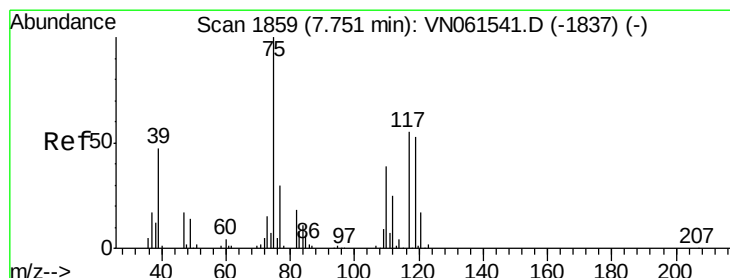
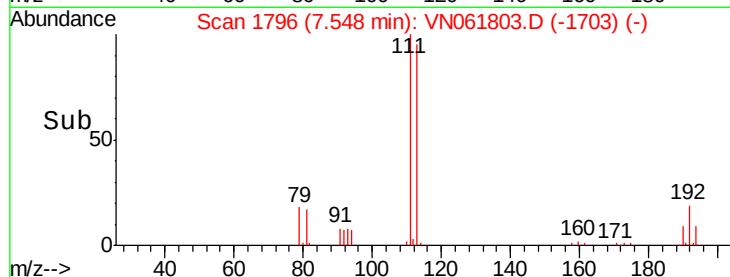
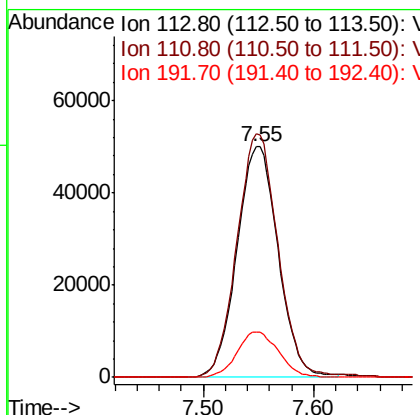
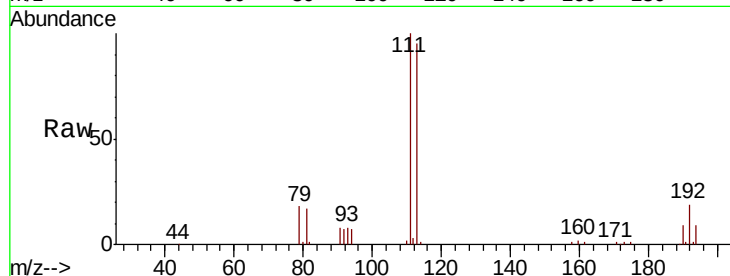




#35
Dibromofluoromethane
Concen: 55.719 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

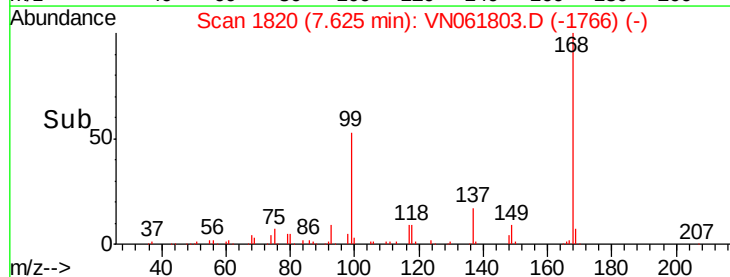
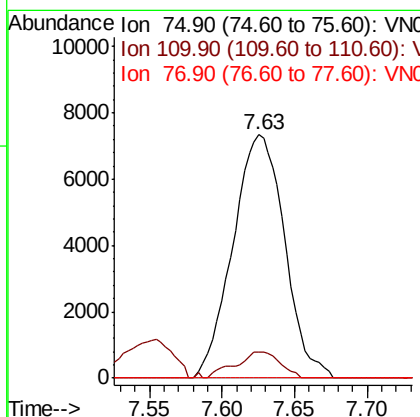
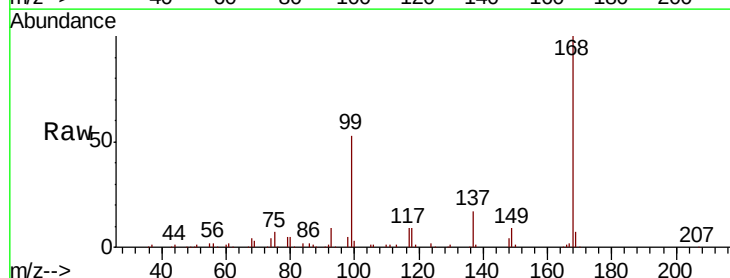
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200609

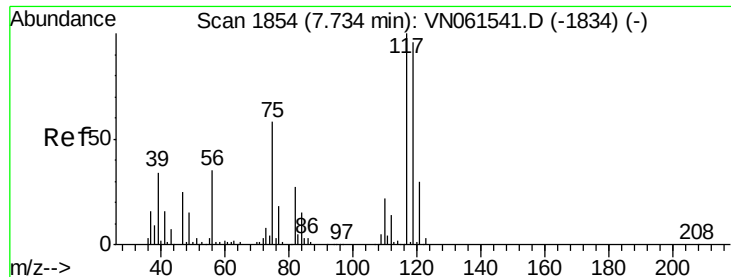
Tot Ion:113 Resp: 129671
Ion Ratio Lower Upper
113 100
111 104.4 83.4 125.0
192 19.9 15.4 23.2



#36
1,1-Dichloropropene
Concen: 4.483 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.13 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion: 75 Resp: 18205
Ion Ratio Lower Upper
75 100
110 9.3 19.5 58.5#
77 0.0 24.7 37.1#

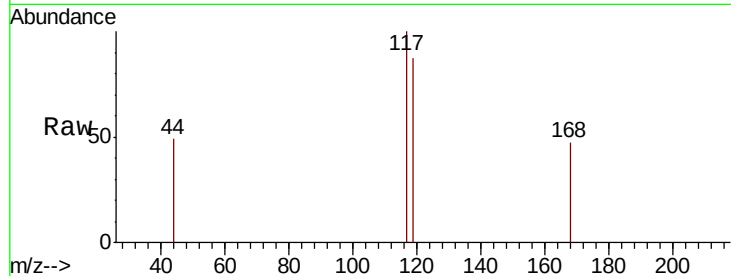




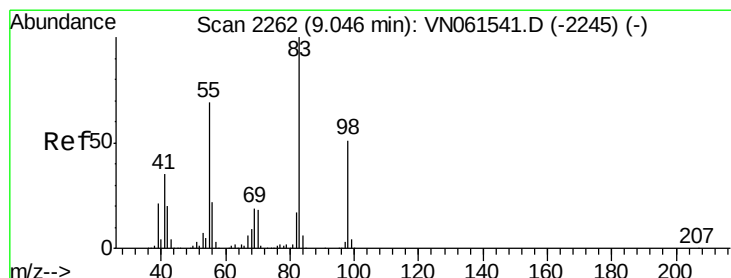
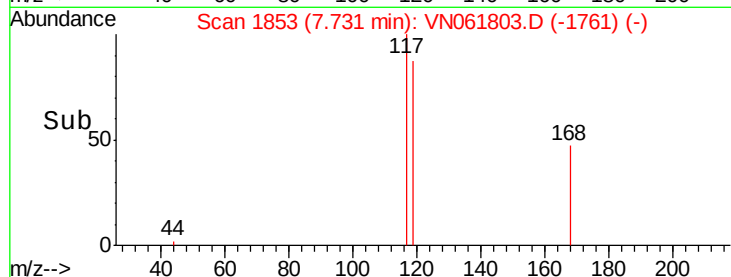
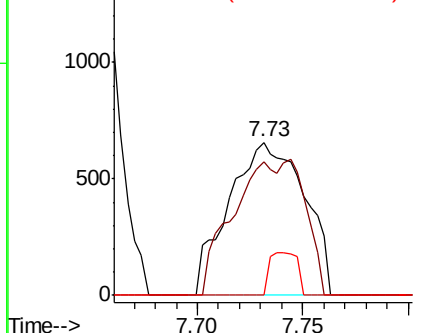
#38
Carbon Tetrachloride
Concen: 0.420 ug/l
RT: 7.73 min Scan# 1853
Delta R.T. -0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200609

Tot Ion:117 Resp: 1644
Ion Ratio Lower Upper
117 100
119 87.4 76.5 114.7
121 0.0 24.1 36.1#

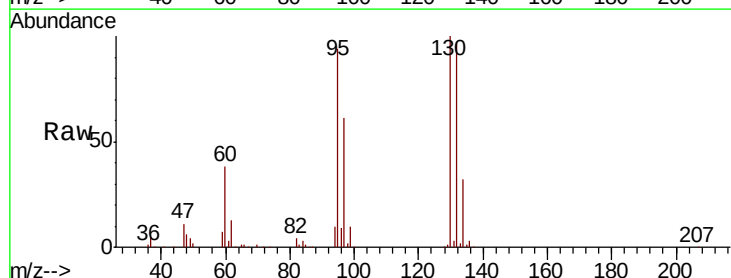


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

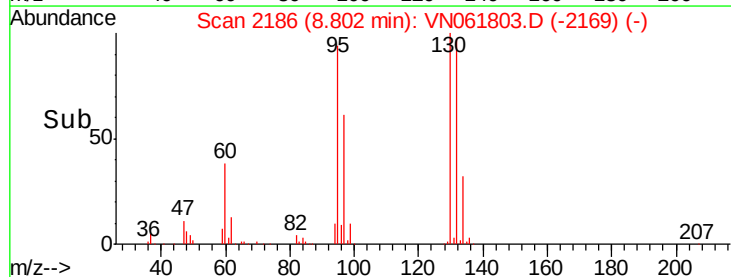
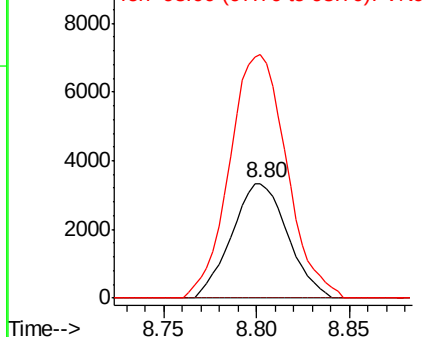


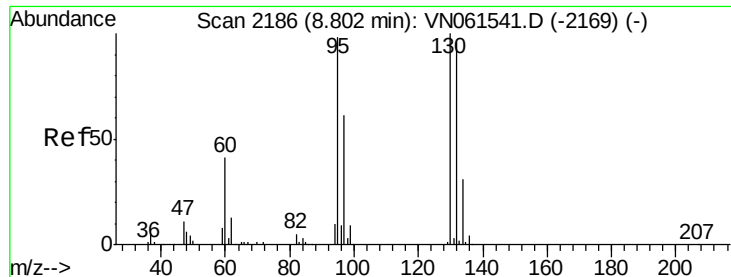
#39
Methylcyclohexane
Concen: 1.395 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion: 83 Resp: 6985
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 207.0 41.0 61.4#



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





#44

Trichloroethene

Concen: 168.368 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

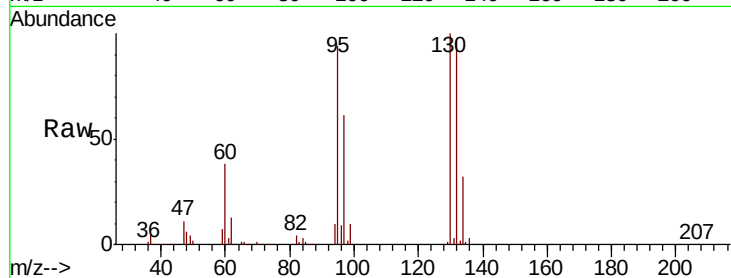
RE125D3-20200609

Tot Ion:130 Resp: 648389

Ion Ratio Lower Upper

130 100

95 93.8 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): VN061803.D (-2093) (-)

Ion 94.90 (94.60 to 95.60): VN061803.D (-2093) (-)

8.80

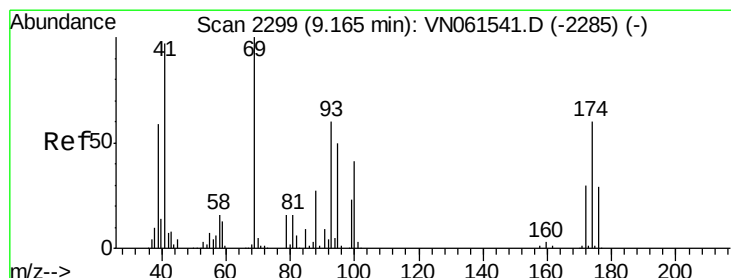
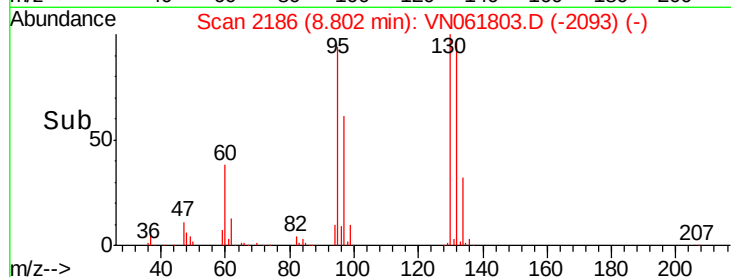
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 12.336 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. 0.01 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

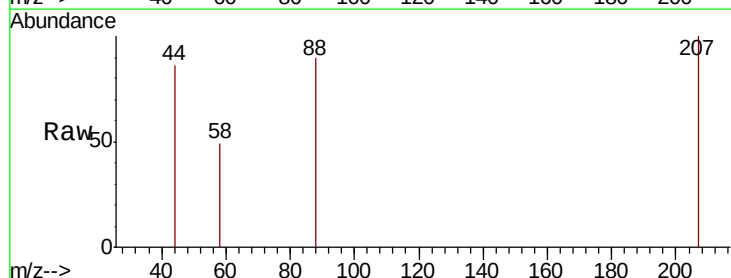
Tgt Ion: 88 Resp: 506

Ion Ratio Lower Upper

88 100

43 6.1 23.1 34.7#

58 31.4 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VN061803.D (-2206) (-)

Ion 43.00 (42.70 to 43.70): VN061803.D (-2206) (-)

Ion 58.00 (57.70 to 58.70): VN061803.D (-2206) (-)

9.17

400

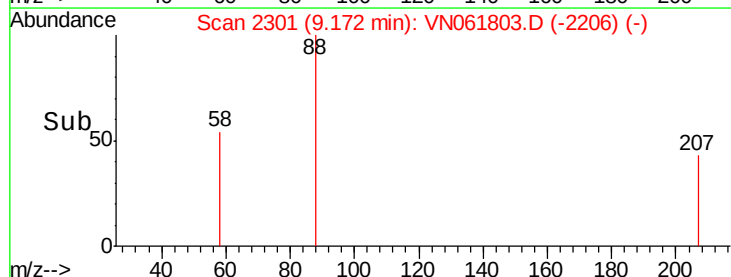
300

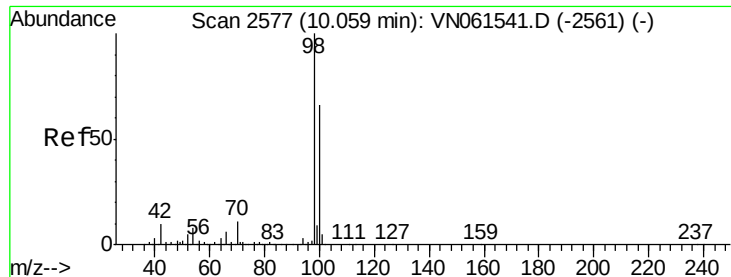
200

100

0

Time-->





#50

Toluene-d8

Concen: 51.696 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

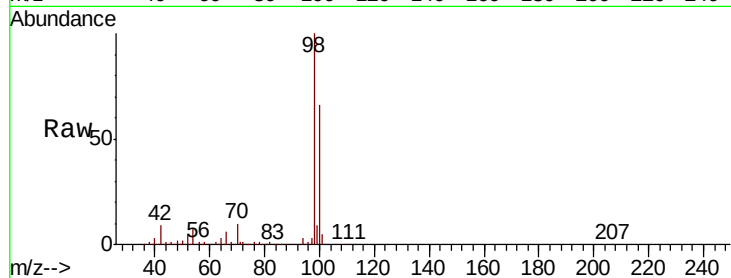
RE125D3-20200609

Tot Ion: 98 Resp: 557522

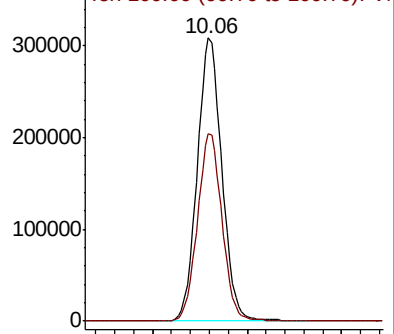
Ion Ratio Lower Upper

98 100

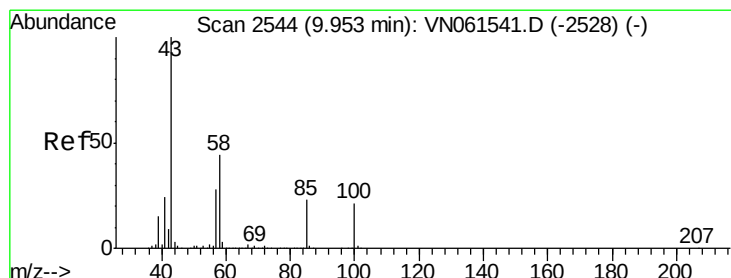
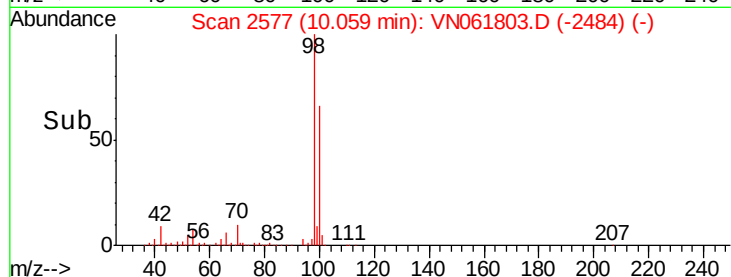
100 66.1 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061803.D (-2484) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.531 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN061803.D

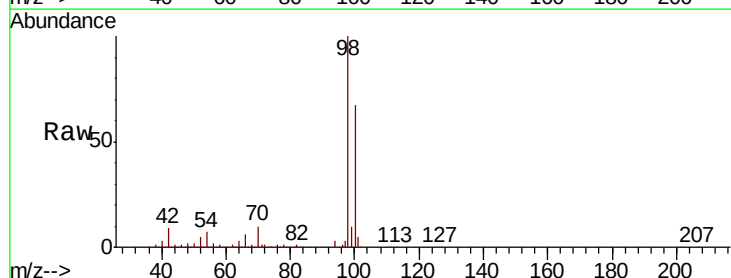
Acq: 12 Jun 2020 19:54

Tgt Ion: 43 Resp: 1762

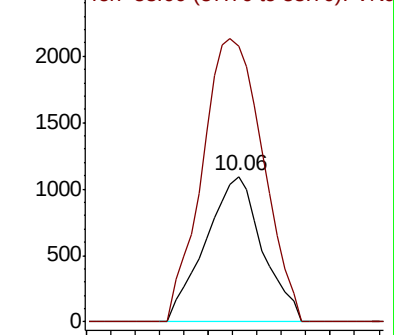
Ion Ratio Lower Upper

43 100

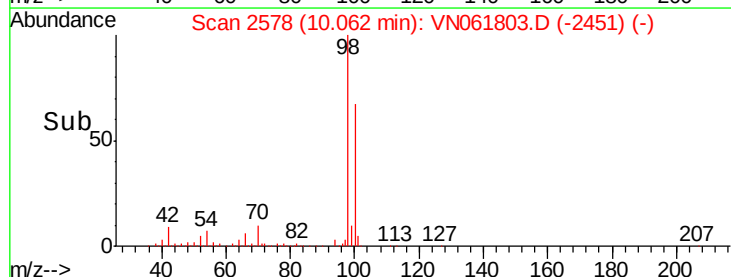
58 209.2 35.0 52.6#

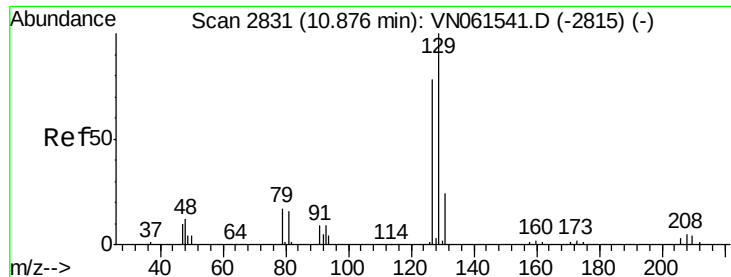


Abundance Ion 43.00 (42.70 to 43.70): VN061803.D (-2451) (-)



Time-->

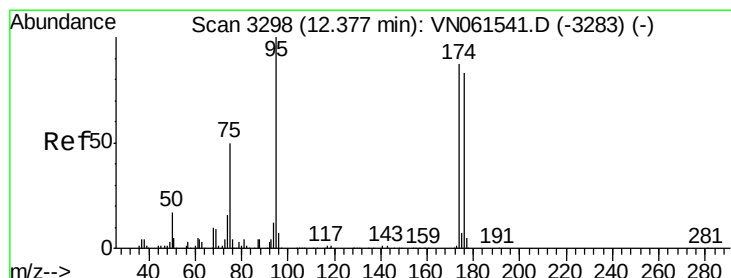
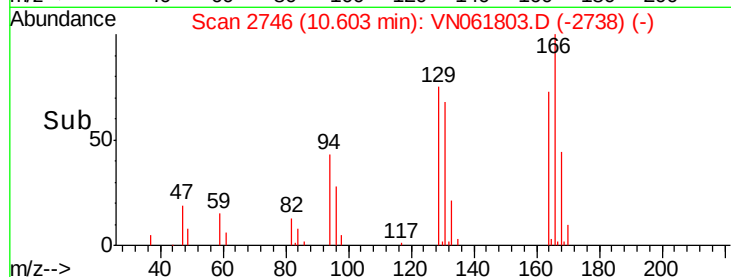
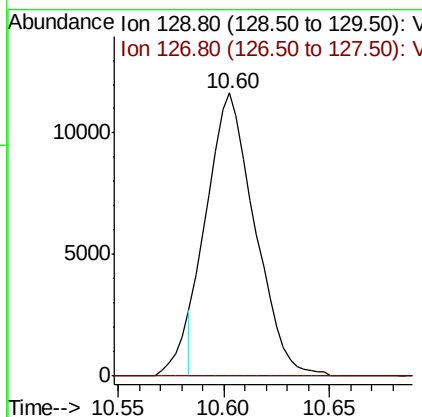
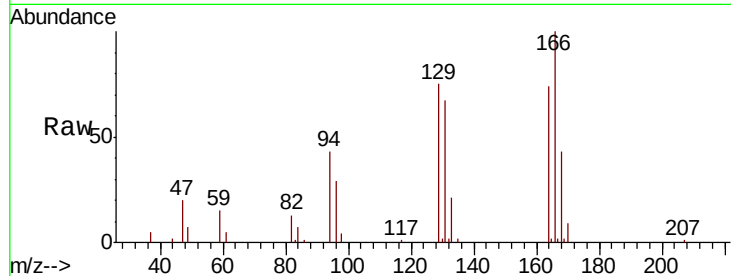




#60
Dibromochloromethane
Concen: 4.932 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. -0.27 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

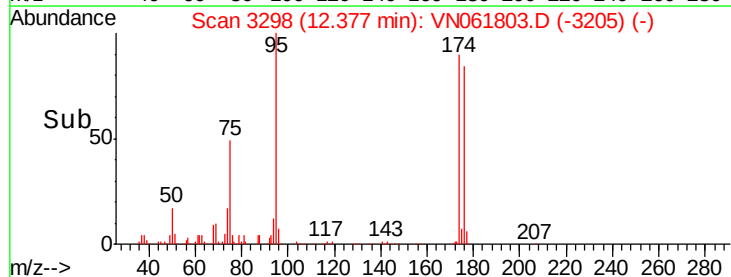
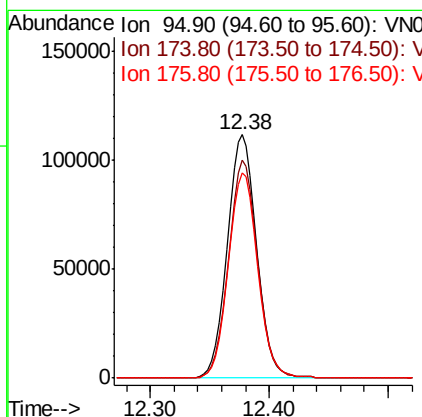
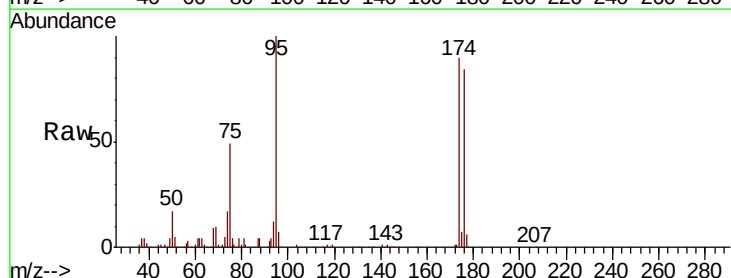
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200609

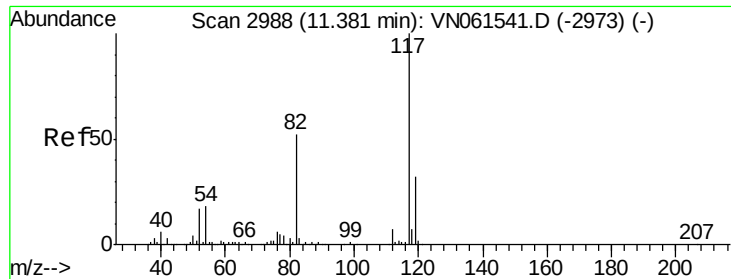
Tot Ion:129 Resp: 18270
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#



#62
4-Bromofluorobenzene
Concen: 48.440 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion: 95 Resp: 190594
Ion Ratio Lower Upper
95 100
174 88.9 0.0 172.8
176 84.7 0.0 164.8

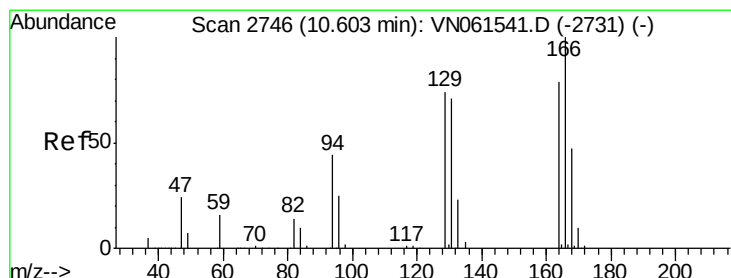
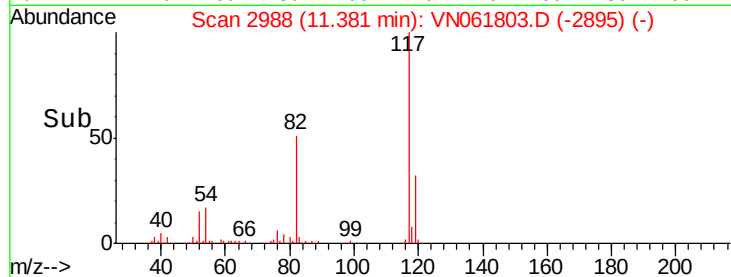
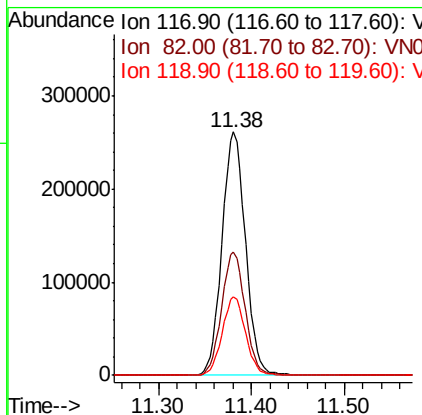
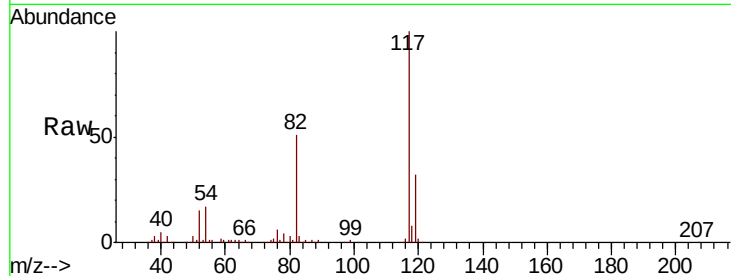




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

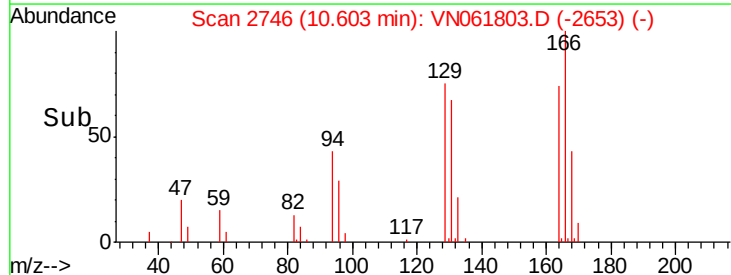
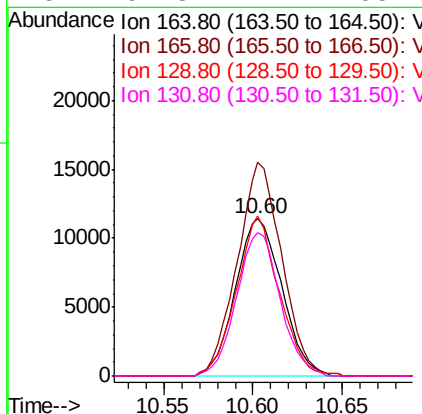
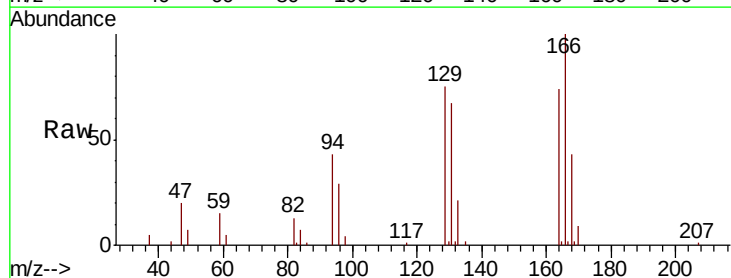
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20200609

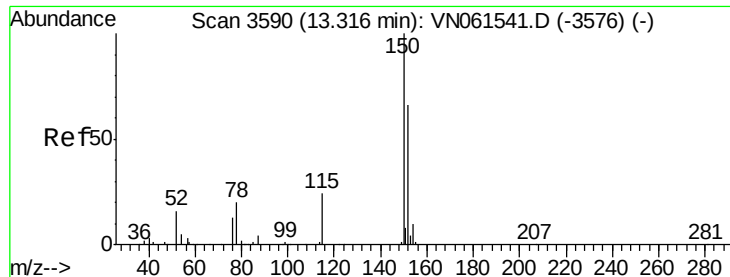
Tot Ion:117 Resp: 459184
Ion Ratio Lower Upper
117 100
82 50.8 41.5 62.3
119 32.4 25.6 38.4



#64
Tetrachloroethene
Concen: 4.805 ug/l
RT: 10.60 min Scan# 2746
Delta R.T. 0.00 min
Lab File: VN061803.D
Acq: 12 Jun 2020 19:54

Tgt Ion:164 Resp: 20769
Ion Ratio Lower Upper
164 100
166 135.8 101.5 152.3
129 101.9 74.9 112.3
131 91.3 72.2 108.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200609

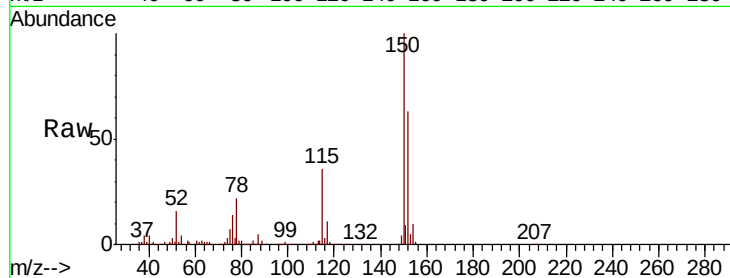
Tot Ion:152 Resp: 200424

Ion Ratio Lower Upper

152 100

115 57.0 28.0 84.0

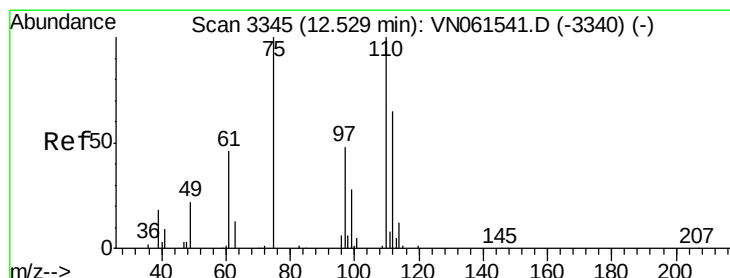
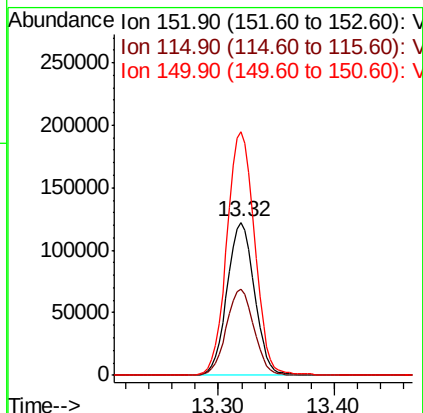
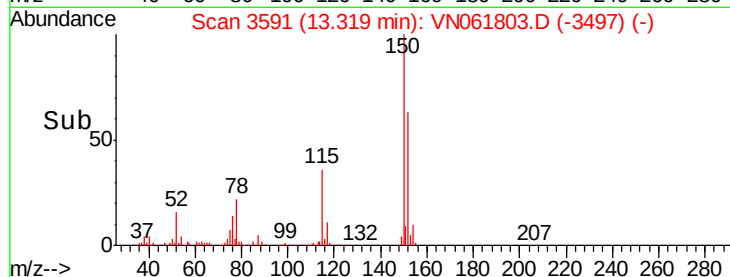
150 160.7 0.0 344.0



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: 25.287 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061803.D

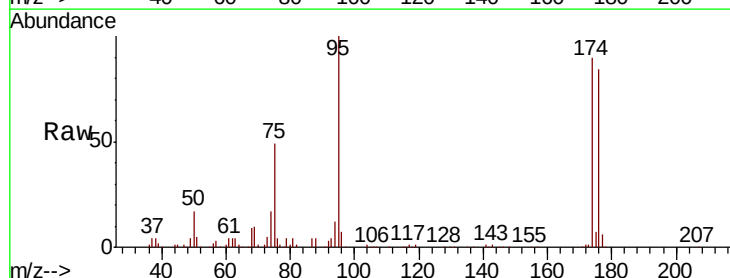
Acq: 12 Jun 2020 19:54

Tgt Ion: 75 Resp: 92159

Ion Ratio Lower Upper

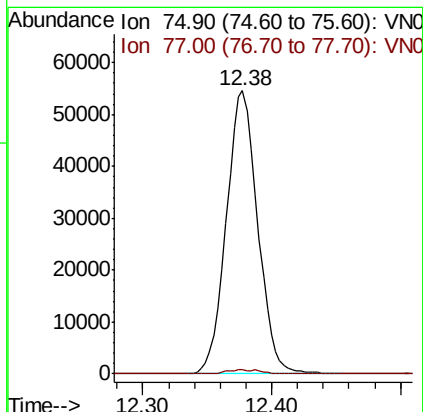
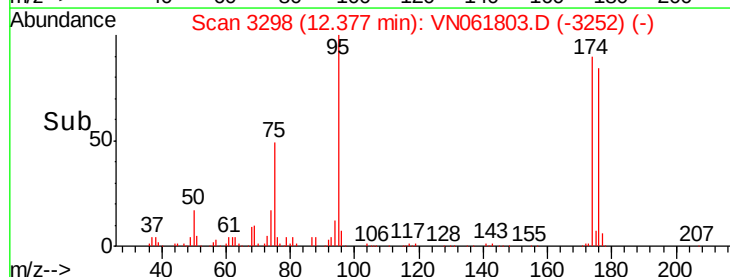
75 100

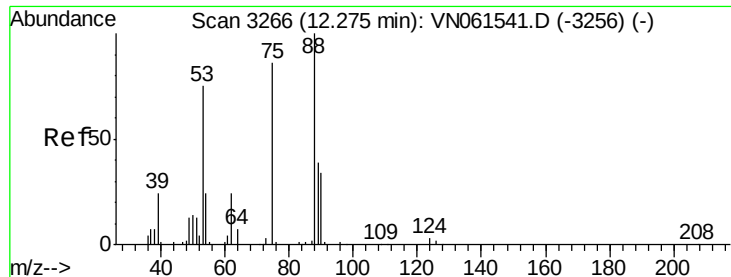
77 1.1 0.0 0.0#



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: 64.666 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061803.D

Acq: 12 Jun 2020 19:54

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20200609

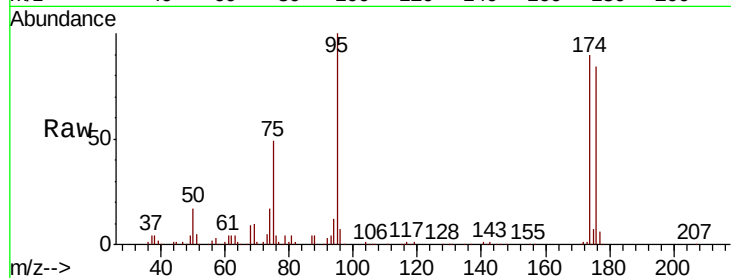
Tot Ion: 75 Resp: 92159

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

