

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061846.D
 Acq On : 17 Jun 2020 14:15
 Operator : JC/MD
 Sample : L2989-11DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP01-20200608DL

Quant Time: Jun 18 03:53:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	135138	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	248438	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244177	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	100818	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	87286	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
35) Dibromofluoromethane	7.55	113	76773	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
50) Toluene-d8	10.06	98	310057	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.38	95	110573	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	

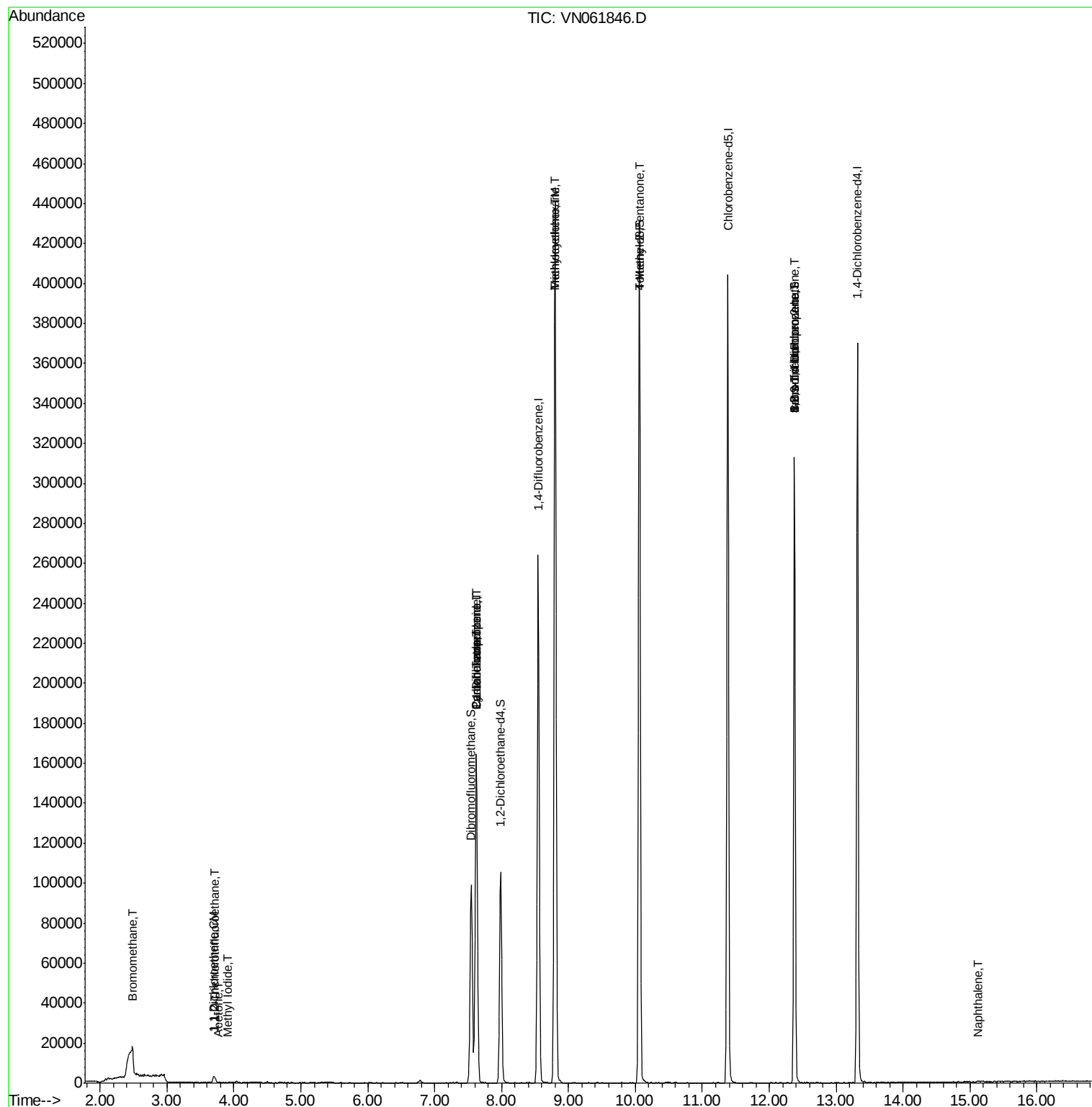
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.49	94	537	0.313	ug/l #	75
9) 1,1,2-Trichlorotrifluoroet	3.71	101	2334	1.703	ug/l #	84
10) Methyl Iodide	3.91	142	177	5.414	ug/l #	42
12) 1,1-Dichloroethene	3.69	96	567	0.413	ug/l #	38
16) Acetone	3.78	43	580	1.083	ug/l #	40
31) Cyclohexane	7.63	56	2798	1.171	ug/l #	14
36) 1,1-Dichloropropene	7.62	75	10460	4.616	ug/l #	50
38) Carbon Tetrachloride	7.62	117	13399	5.971	ug/l #	17
39) Methylcyclohexane	8.80	83	1866	0.765	ug/l #	1
44) Trichloroethene	8.80	130	166059	91.922	ug/l	96
51) 4-Methyl-2-Pentanone	10.06	43	1030	0.584	ug/l #	1
71) Bromoform	12.38	173	947	0.723	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	54360	27.464	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	54360	74.906	ug/l #	14
95) Naphthalene	15.12	128	279	3.535	ug/l #	69

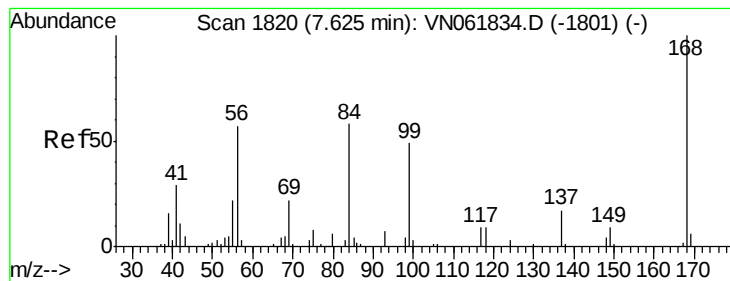
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 17 01:19:44 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: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

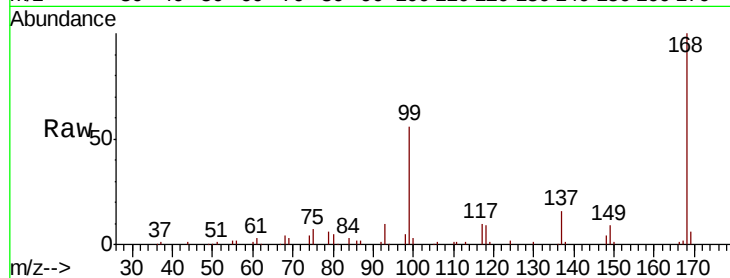
REDUP01-20200608DL

Tot Ion:168 Resp: 135138

Ion Ratio Lower Upper

168 100

99 56.3 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

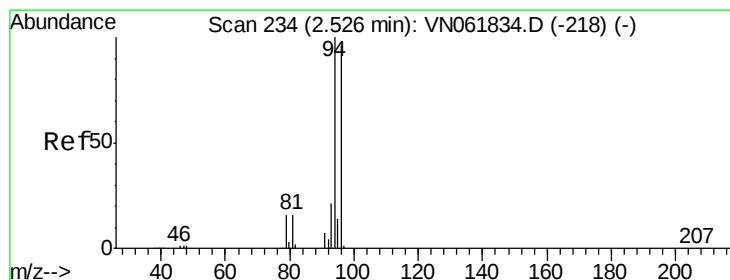
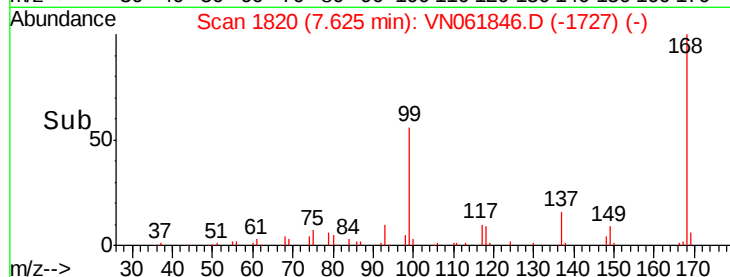
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.313 ug/l

RT: 2.49 min Scan# 224

Delta R.T. -0.03 min

Lab File: VN061846.D

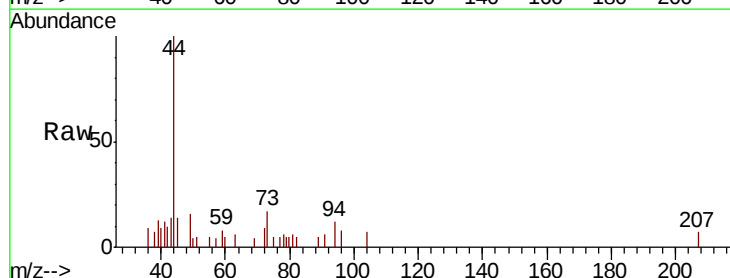
Acq: 17 Jun 2020 14:15

Tgt Ion: 94 Resp: 537

Ion Ratio Lower Upper

94 100

96 71.1 76.7 115.1#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

500

400

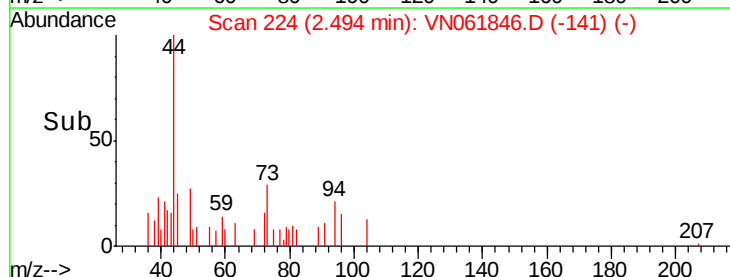
300

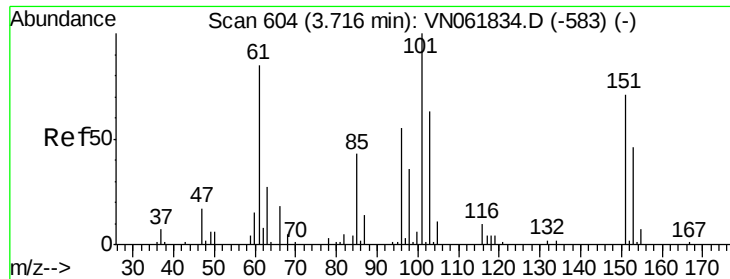
200

100

0

Time--> 2.46 2.48 2.50 2.52





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.703 ug/l

RT: 3.71 min Scan# 603

Delta R.T. -0.00 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

REDUP01-20200608DL

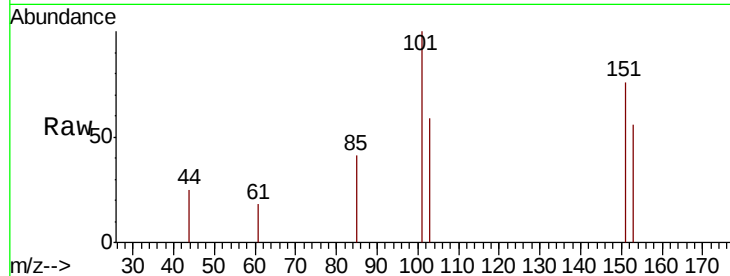
Tot Ion:101 Resp: 2334

Ion Ratio Lower Upper

101 100

85 24.4 35.0 52.6#

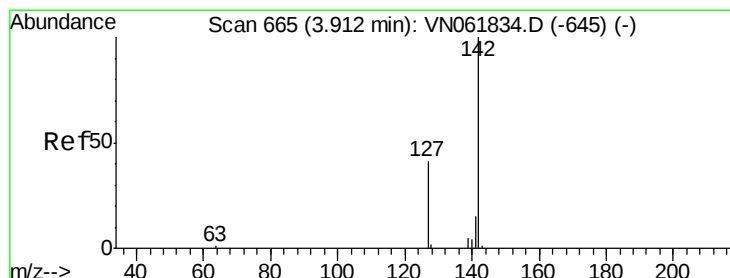
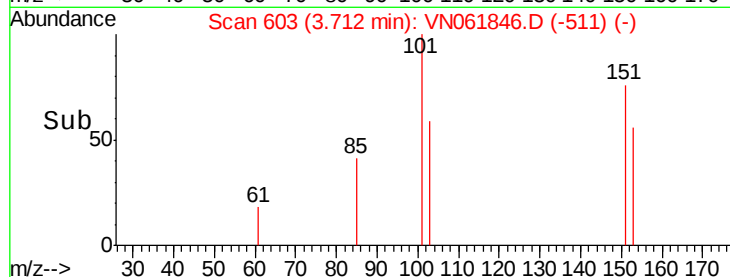
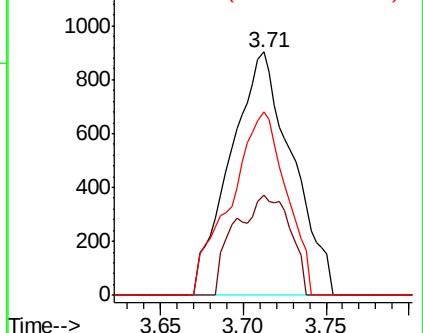
151 68.0 59.2 88.8



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 5.414 ug/l

RT: 3.91 min Scan# 665

Delta R.T. 0.00 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

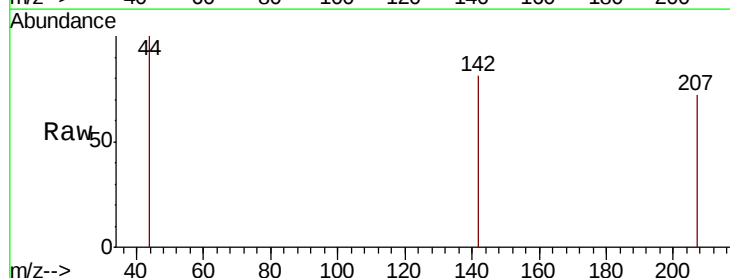
Tgt Ion:142 Resp: 177

Ion Ratio Lower Upper

142 100

127 0.0 33.4 50.0#

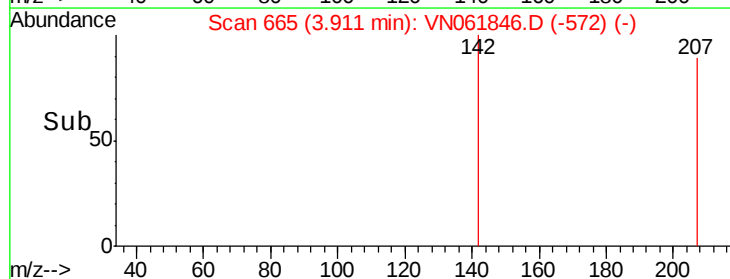
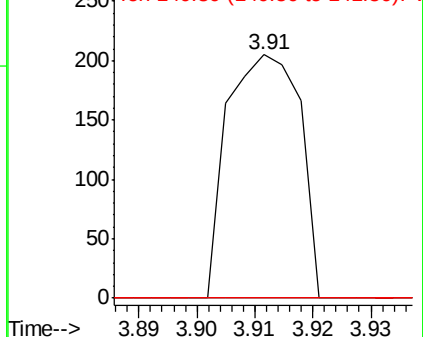
141 0.0 11.3 16.9#

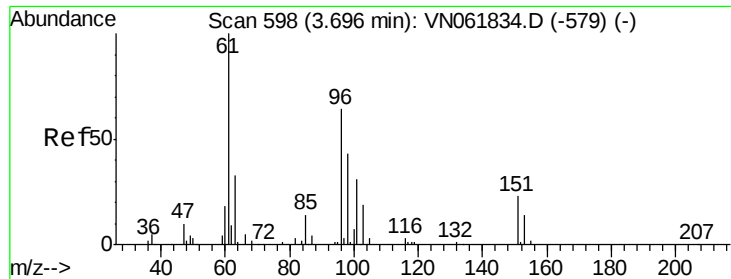


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.413 ug/l

RT: 3.69 min Scan# 597

Delta R.T. -0.00 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

REDUP01-20200608DL

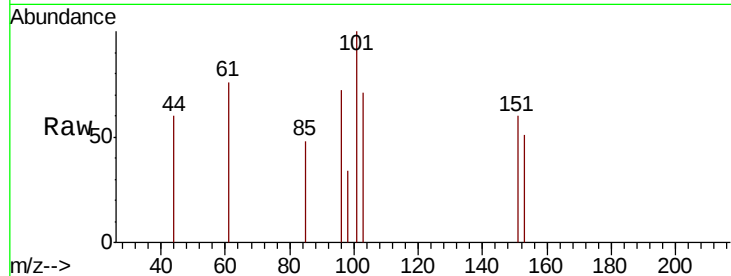
Tot Ion: 96 Resp: 567

Ion Ratio Lower Upper

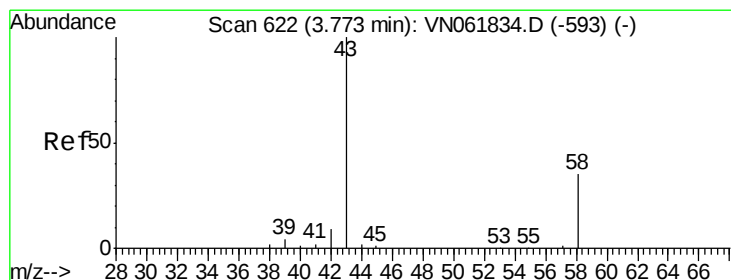
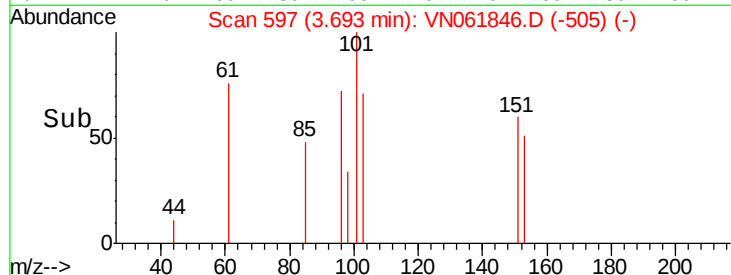
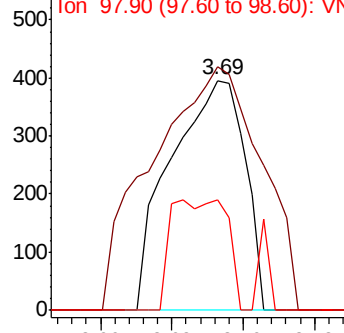
96 100

61 54.3 124.3 186.5#

98 47.7 53.1 79.7#



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



#16

Acetone

Concen: 1.083 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061846.D

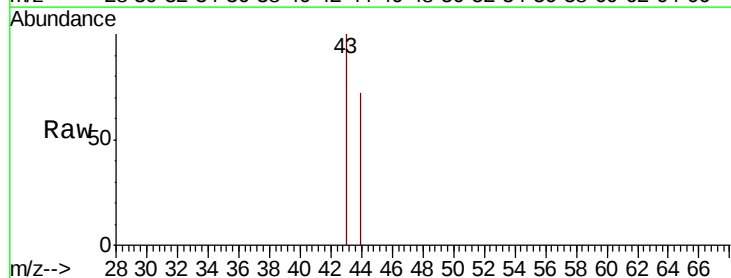
Acq: 17 Jun 2020 14:15

Tgt Ion: 43 Resp: 580

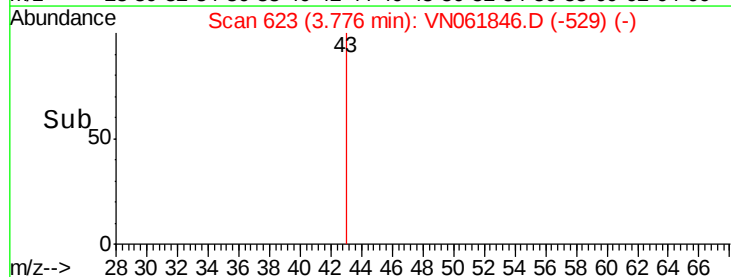
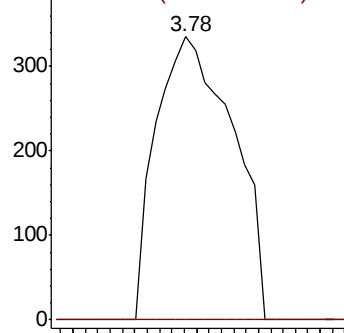
Ion Ratio Lower Upper

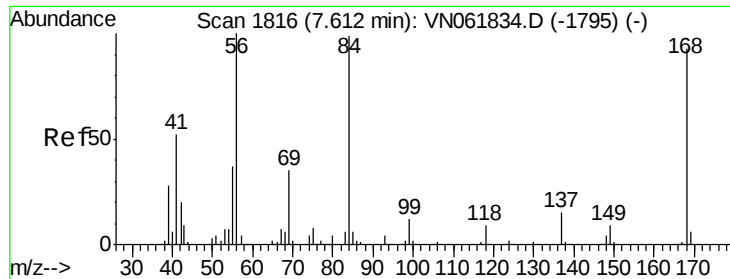
43 100

58 0.0 27.8 41.8#



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

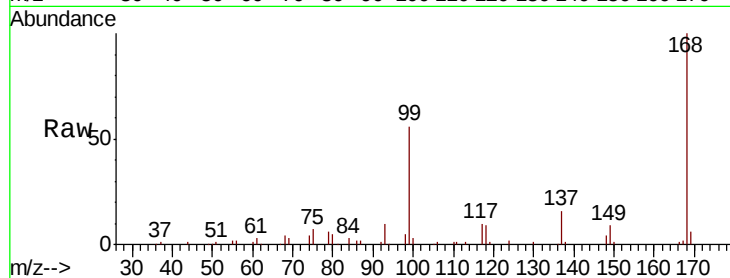




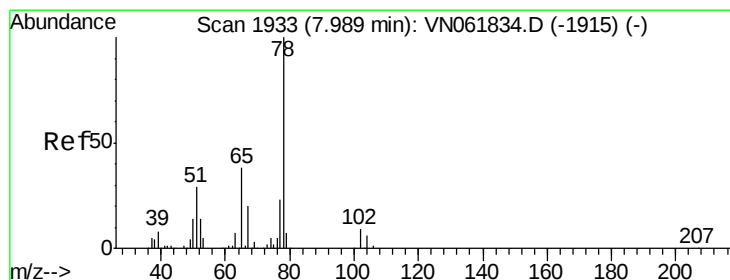
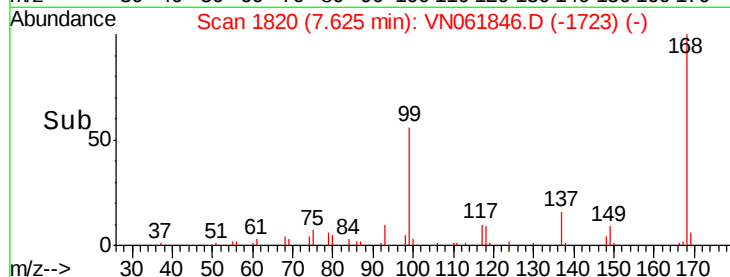
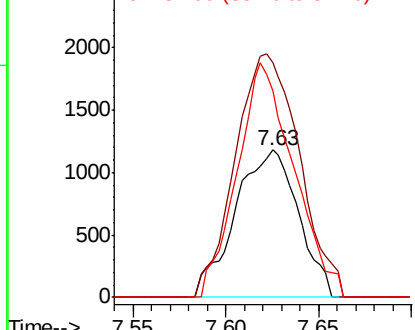
#31
Cyclohexane
Concen: 1.171 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061846.D
Acq: 17 Jun 2020 14:15

Instrument :
MSVOA_N
ClientSampleId :
REDUP01-20200608DL

Tot Ion: 56 Resp: 2798
Ion Ratio Lower Upper
56 100
69 158.7 27.7 41.5#
84 139.7 79.1 118.7#

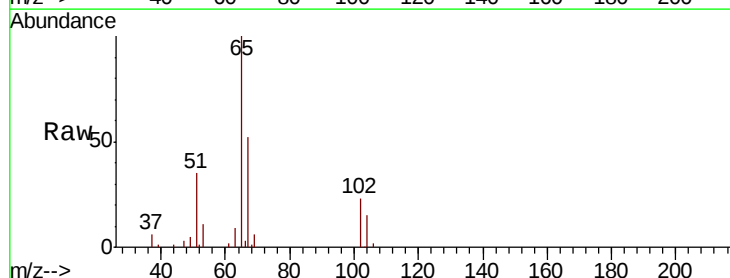


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

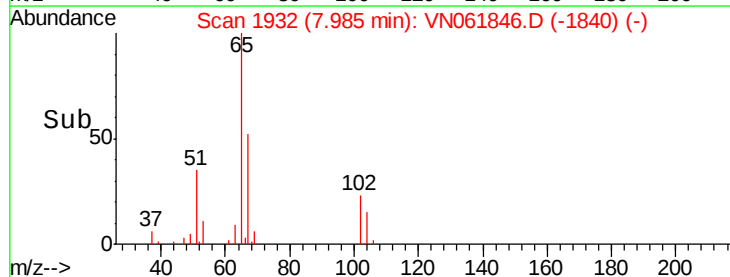
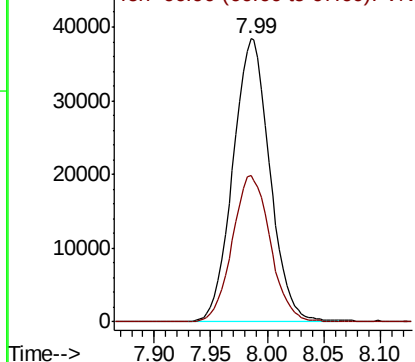


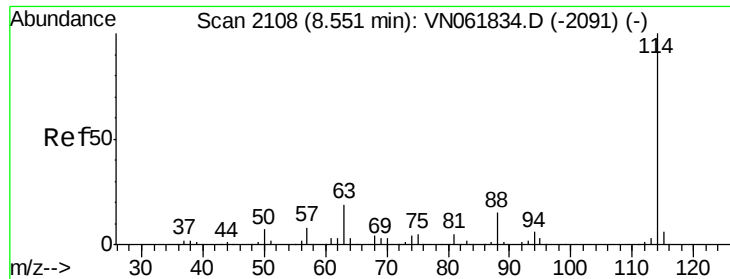
#33
1,2-Dichloroethane-d4
Concen: 48.160 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061846.D
Acq: 17 Jun 2020 14:15

Tgt Ion: 65 Resp: 87286
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

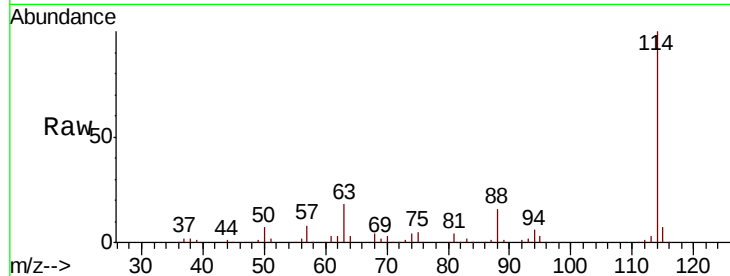




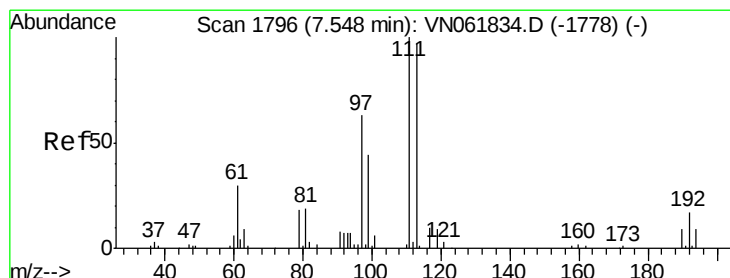
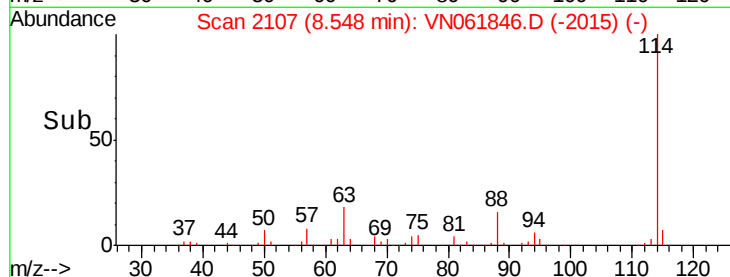
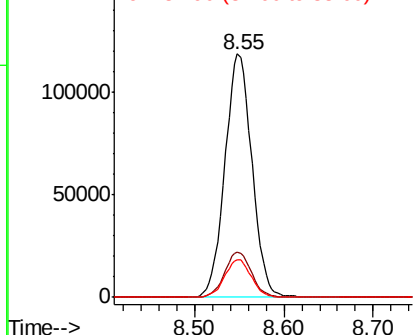
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2107
Delta R.T. -0.00 min
Lab File: VN061846.D
Acq: 17 Jun 2020 14:15

Instrument :
MSVOA_N
ClientSampleId :
REDUP01-20200608DL

Tot Ion:114 Resp: 248438
Ion Ratio Lower Upper
114 100
63 18.4 0.0 37.6
88 15.6 0.0 31.0

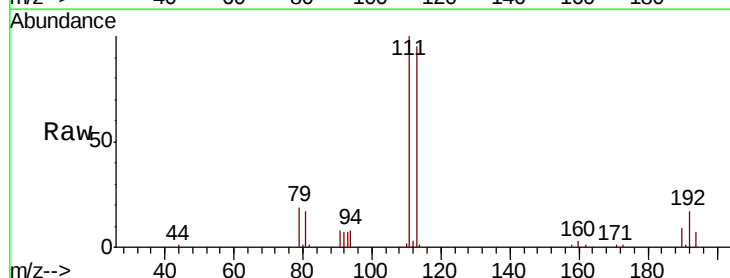


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

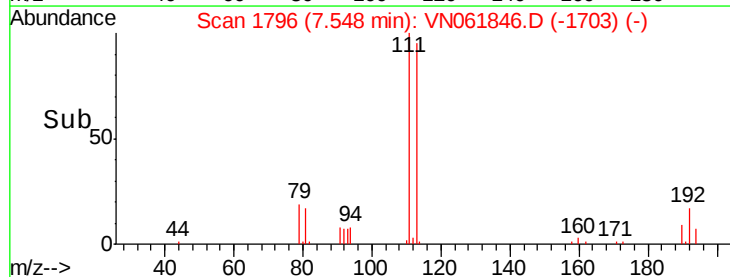
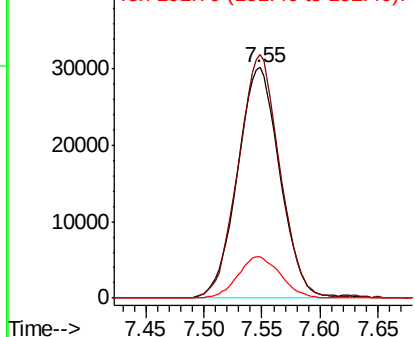


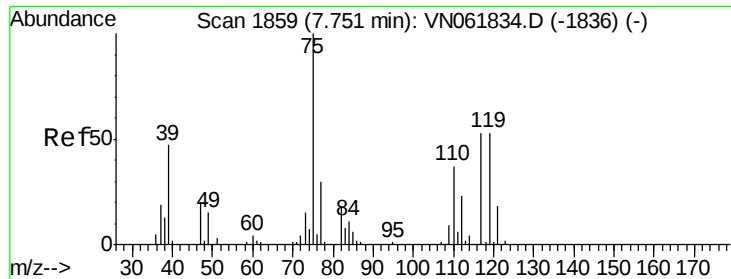
#35
Dibromofluoromethane
Concen: 48.304 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061846.D
Acq: 17 Jun 2020 14:15

Tgt Ion:113 Resp: 76773
Ion Ratio Lower Upper
113 100
111 102.9 83.7 125.5
192 17.9 13.9 20.9



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

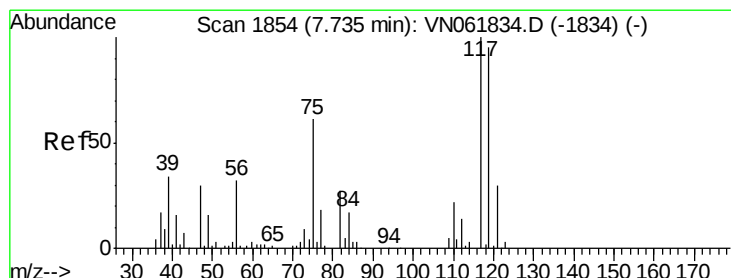
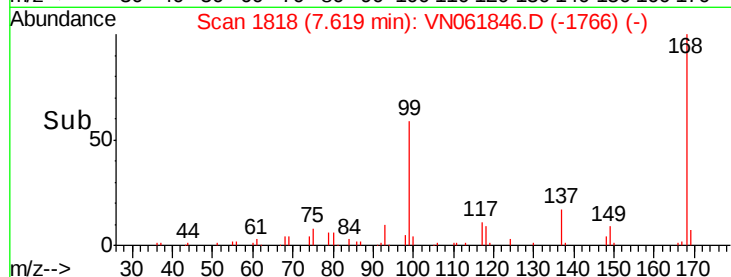
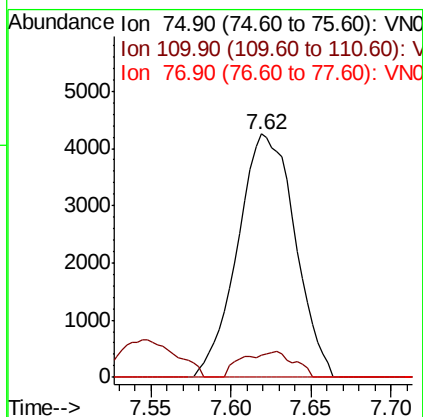
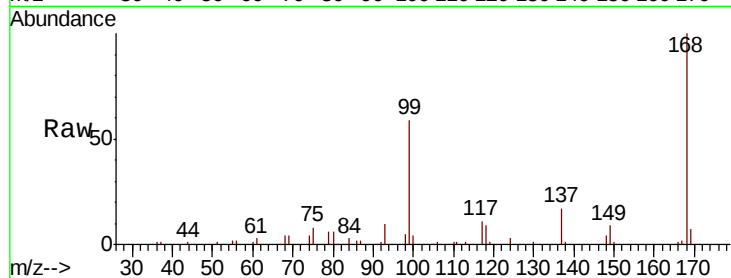




#36
 1,1-Dichloropropene
 Concen: 4.616 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.13 min
 Lab File: VN061846.D
 Acq: 17 Jun 2020 14:15

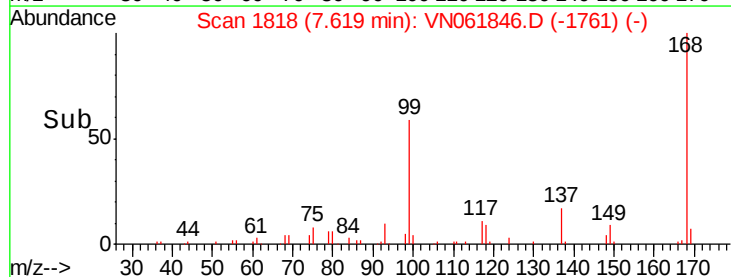
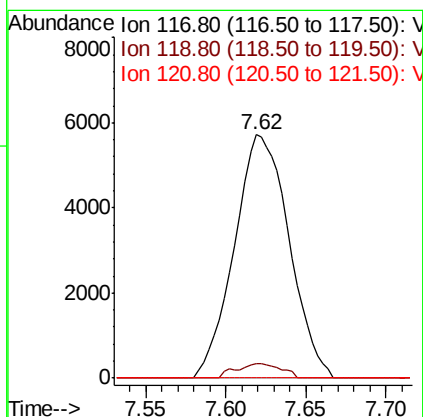
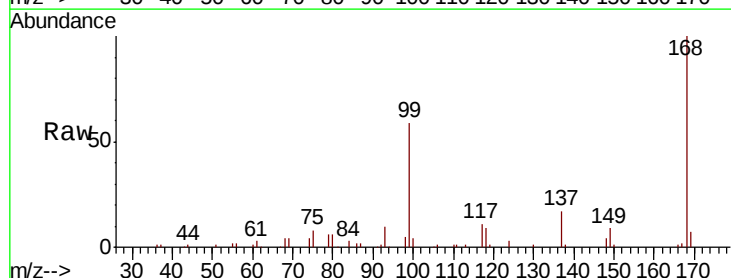
Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP01-20200608DL

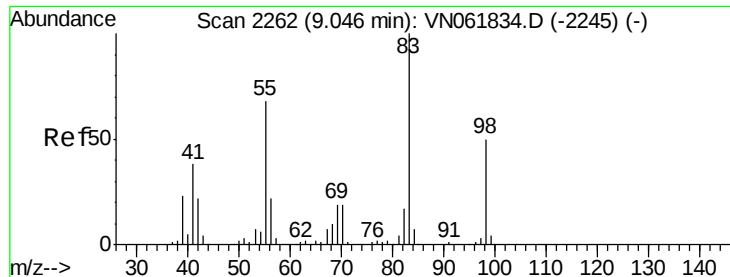
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.2	54.6#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.971 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.12 min
 Lab File: VN061846.D
 Acq: 17 Jun 2020 14:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.8	113.6#
121	0.0	23.8	35.6#





#39

Methylcyclohexane

Concen: 0.765 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.25 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleID :

REDUP01-20200608DL

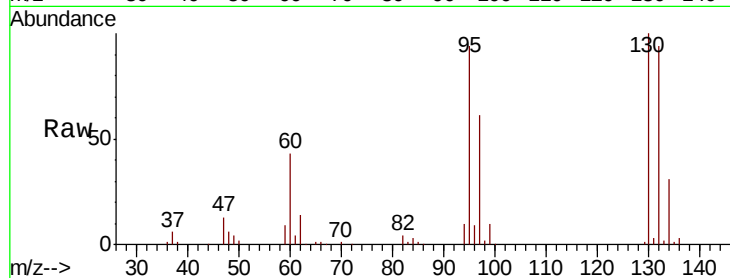
Tot Ion: 83 Resp: 1866

Ion Ratio Lower Upper

83 100

55 0.0 54.2 81.4#

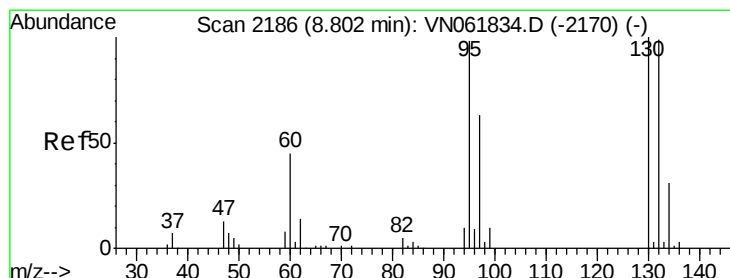
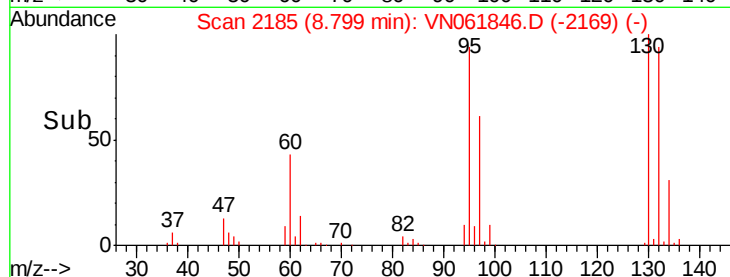
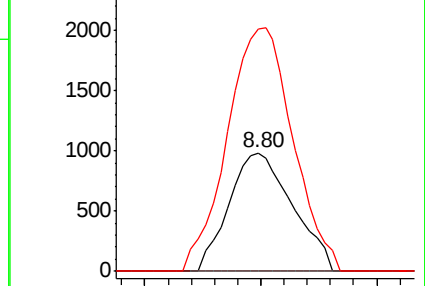
98 205.2 39.8 59.6#



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: 91.922 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VN061846.D

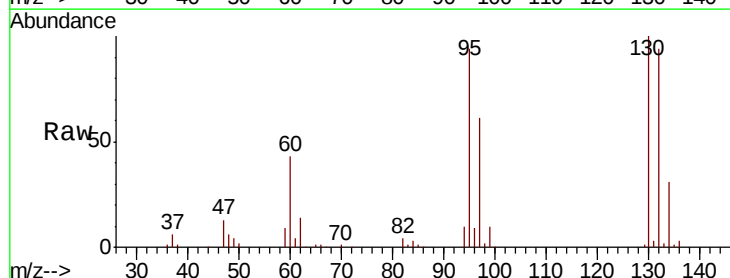
Acq: 17 Jun 2020 14:15

Tgt Ion:130 Resp: 166059

Ion Ratio Lower Upper

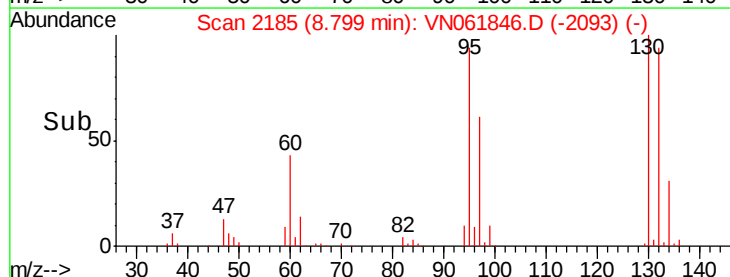
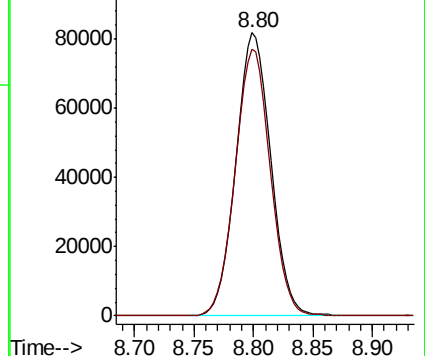
130 100

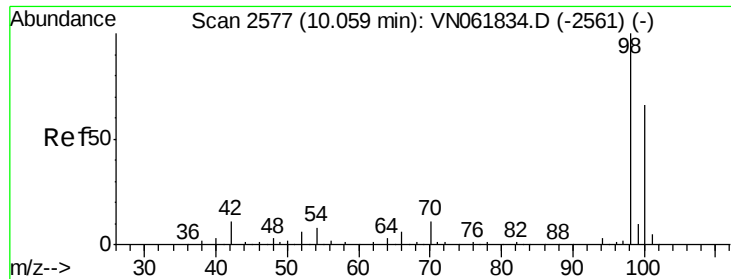
95 94.1 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 49.621 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

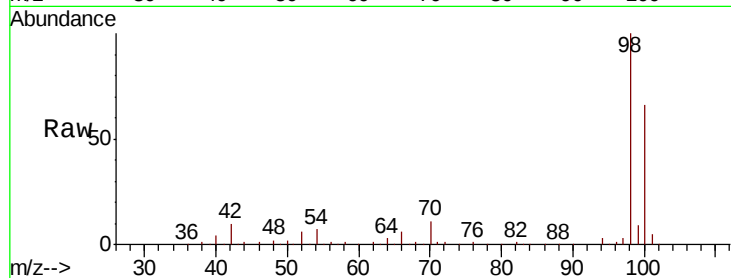
REDUP01-20200608DL

Tot Ion: 98 Resp: 310057

Ion Ratio Lower Upper

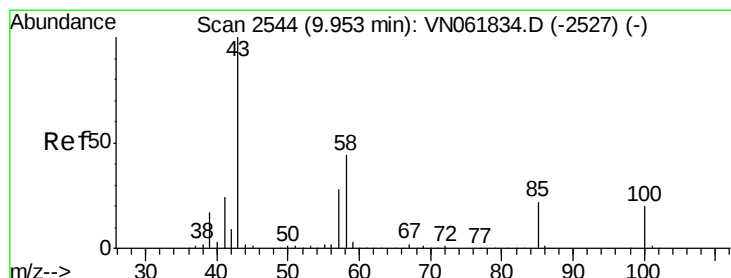
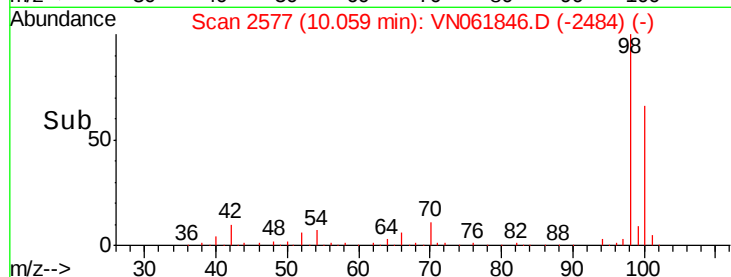
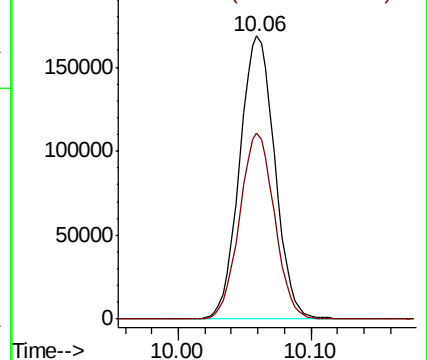
98 100

100 65.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.584 ug/l

RT: 10.06 min Scan# 2576

Delta R.T. 0.10 min

Lab File: VN061846.D

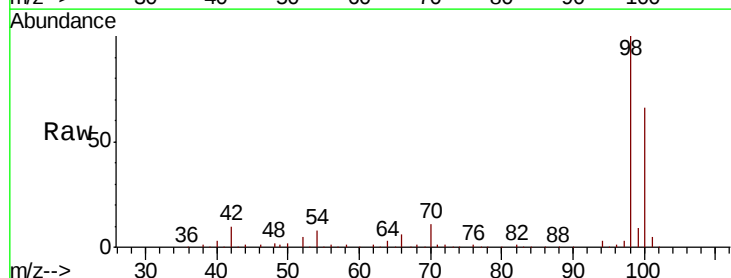
Acq: 17 Jun 2020 14:15

Tgt Ion: 43 Resp: 1030

Ion Ratio Lower Upper

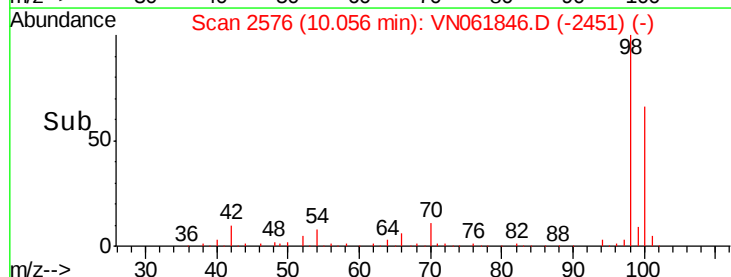
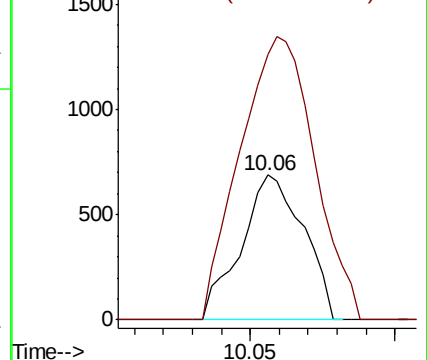
43 100

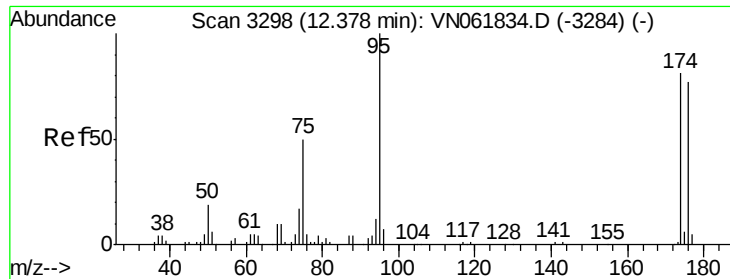
58 233.4 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

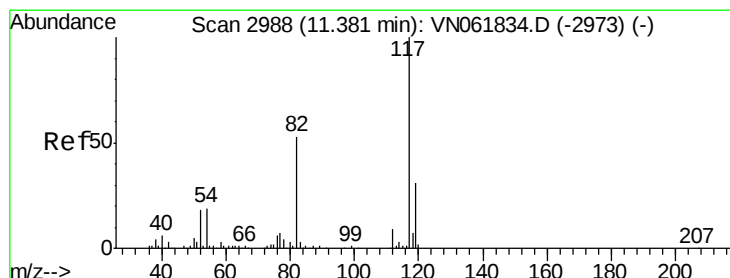
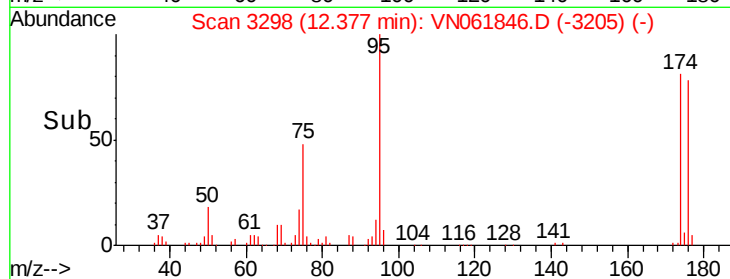
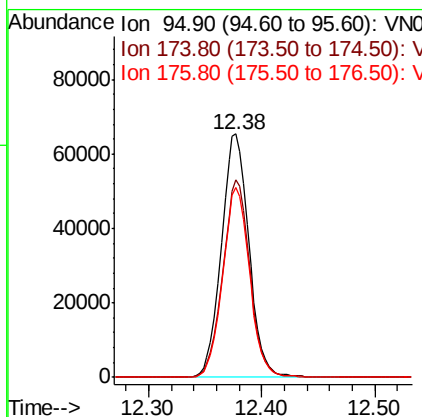
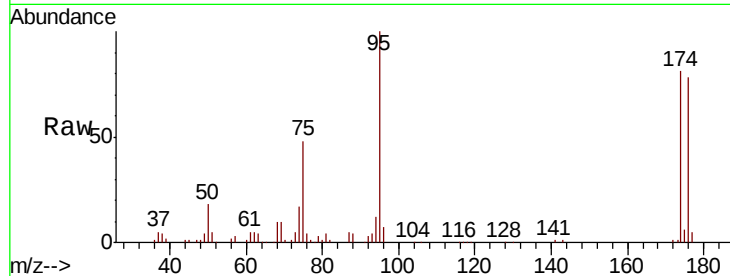




#62
 4-Bromofluorobenzene
 Concen: 51.589 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN061846.D
 Acq: 17 Jun 2020 14:15

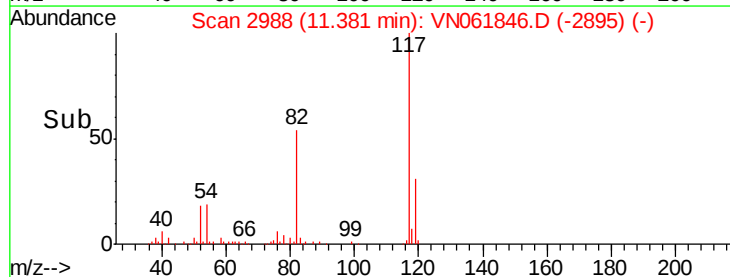
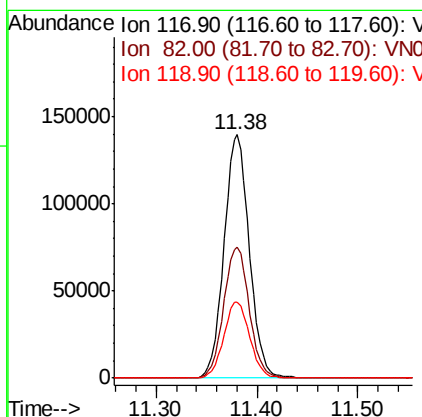
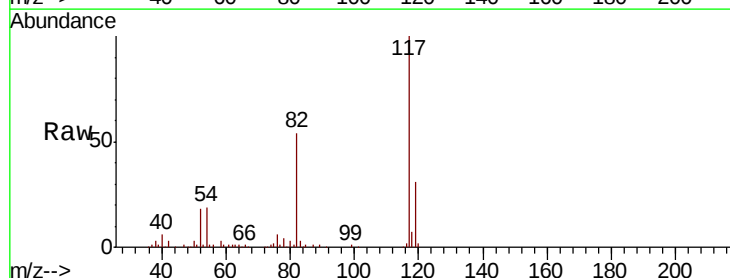
Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP01-20200608DL

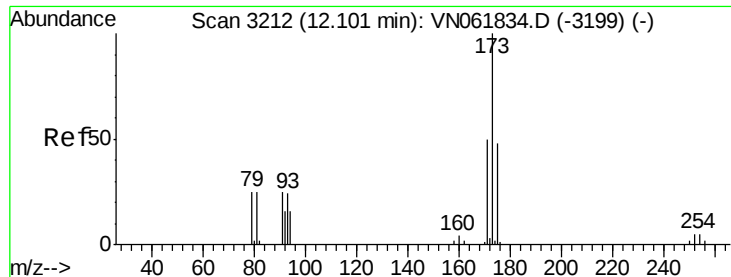
Tot Ion: 95 Resp: 110573
 Ion Ratio Lower Upper
 95 100
 174 79.7 0.0 158.6
 176 76.2 0.0 152.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061846.D
 Acq: 17 Jun 2020 14:15

Tgt Ion: 117 Resp: 244177
 Ion Ratio Lower Upper
 117 100
 82 53.5 42.6 64.0
 119 31.3 24.7 37.1





#71

Bromoform

Concen: 0.723 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

REDUP01-20200608DL

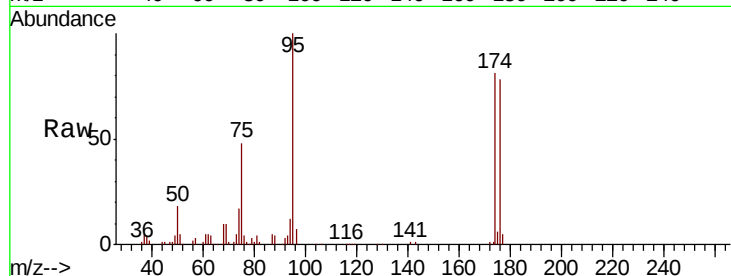
Tot Ion:173 Resp: 947

Ion Ratio Lower Upper

173 100

175 546.3 23.9 71.7#

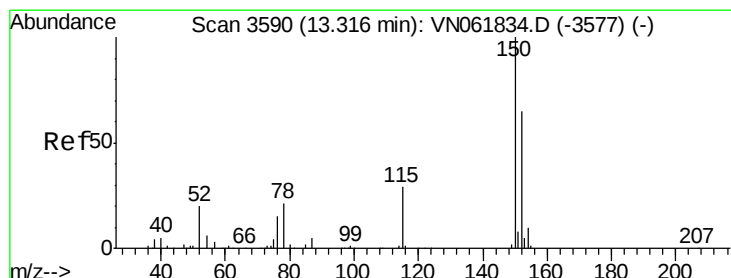
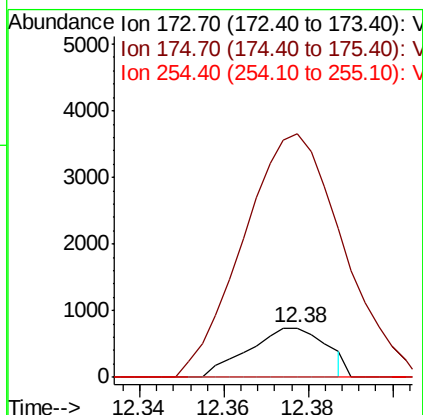
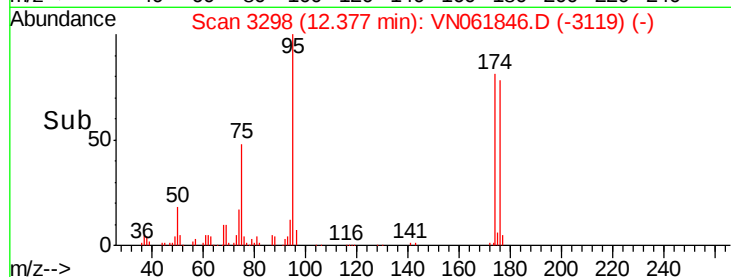
254 0.0 0.0 0.0



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: VN061846.D

Acq: 17 Jun 2020 14:15

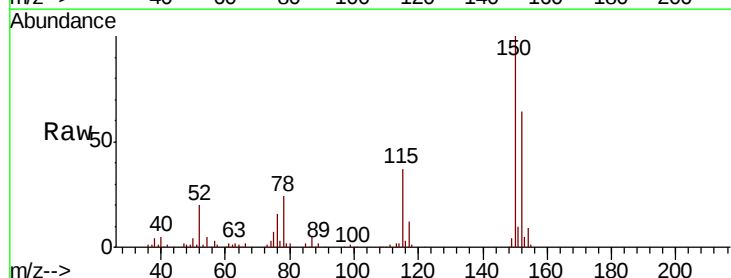
Tgt Ion:152 Resp: 100818

Ion Ratio Lower Upper

152 100

115 58.8 29.1 87.3

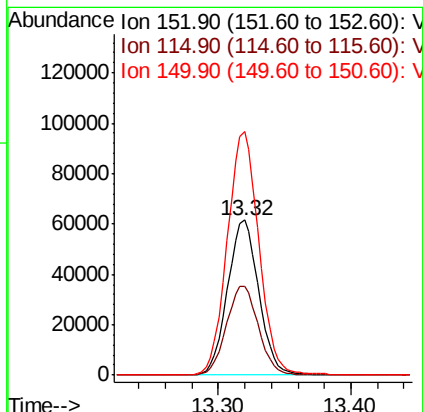
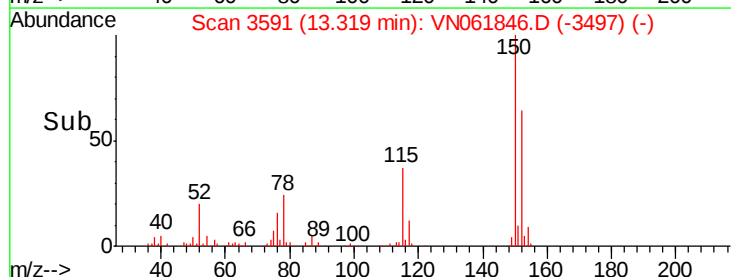
150 159.0 0.0 347.6

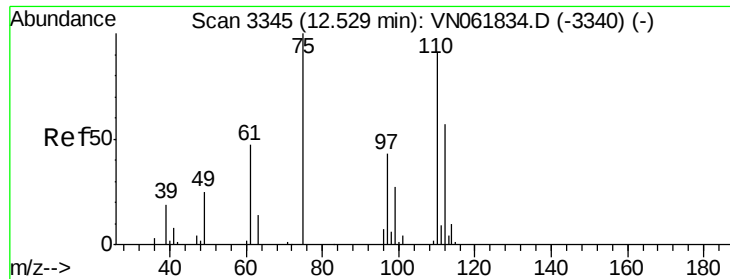


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.464 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

Instrument :

MSVOA_N

ClientSampleId :

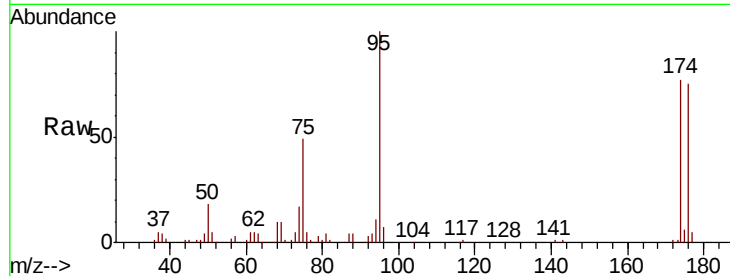
REDUP01-20200608DL

Tot Ion: 75 Resp: 54360

Ion Ratio Lower Upper

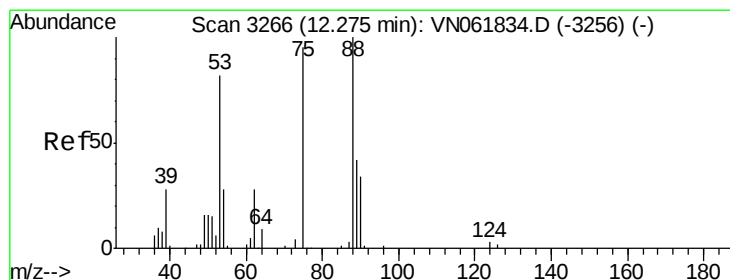
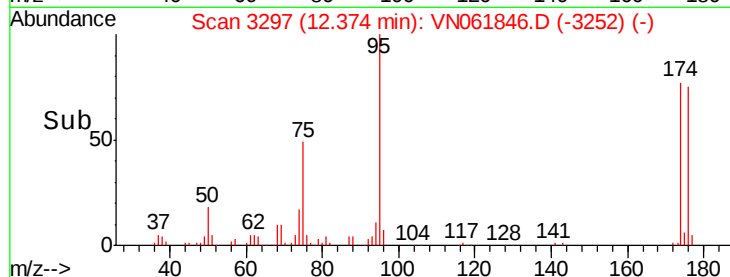
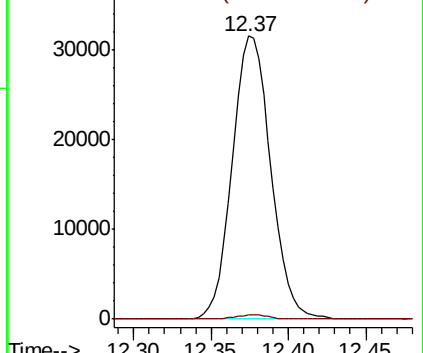
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 74.906 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061846.D

Acq: 17 Jun 2020 14:15

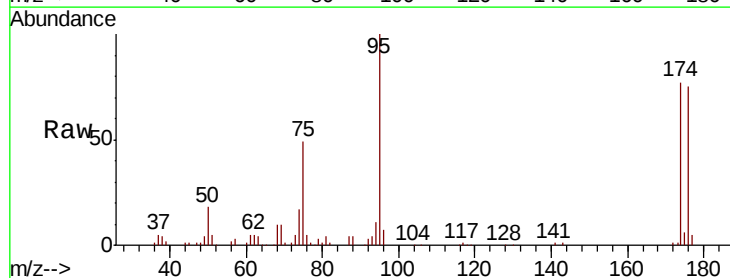
Tgt Ion: 75 Resp: 54360

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

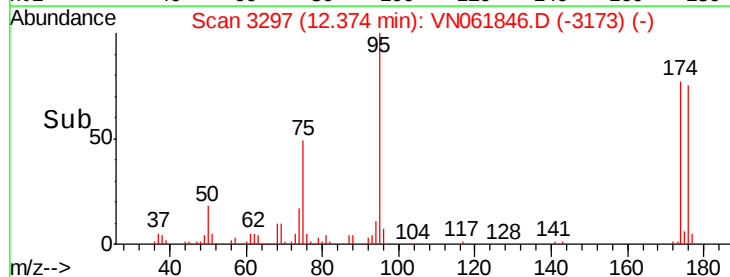
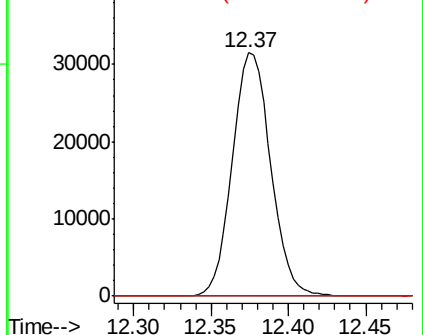
89 0.0 36.0 54.0#

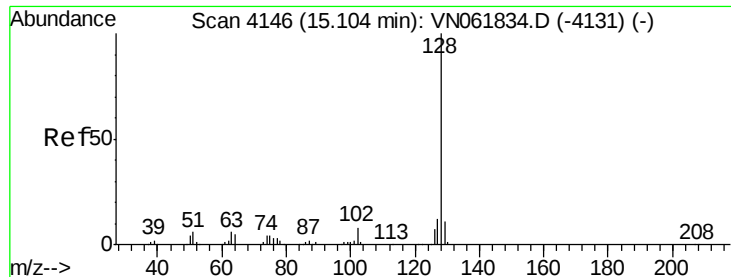


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95
 Naphthalene
 Concen: 3.535 ug/l
 RT: 15.12 min Scan# 4150
 Delta R.T. 0.01 min
 Lab File: VN061846.D
 Acq: 17 Jun 2020 14:15

Instrument :
 MSVOA_N
 ClientSampleId :
 REDUP01-20200608DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

