

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052920\
 Data File : VN061568.D
 Acq On : 29 May 2020 15:35
 Operator : JC/MD
 Sample : PB129155TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 30 04:43:25 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	276806	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	497122	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	503527	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	224107	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	175041	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
35) Dibromofluoromethane	7.55	113	130192	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
50) Toluene-d8	10.06	98	622343	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	12.38	95	234112	54.91	ug/l	0.00
Spiked Amount			Recovery	=	109.82%	

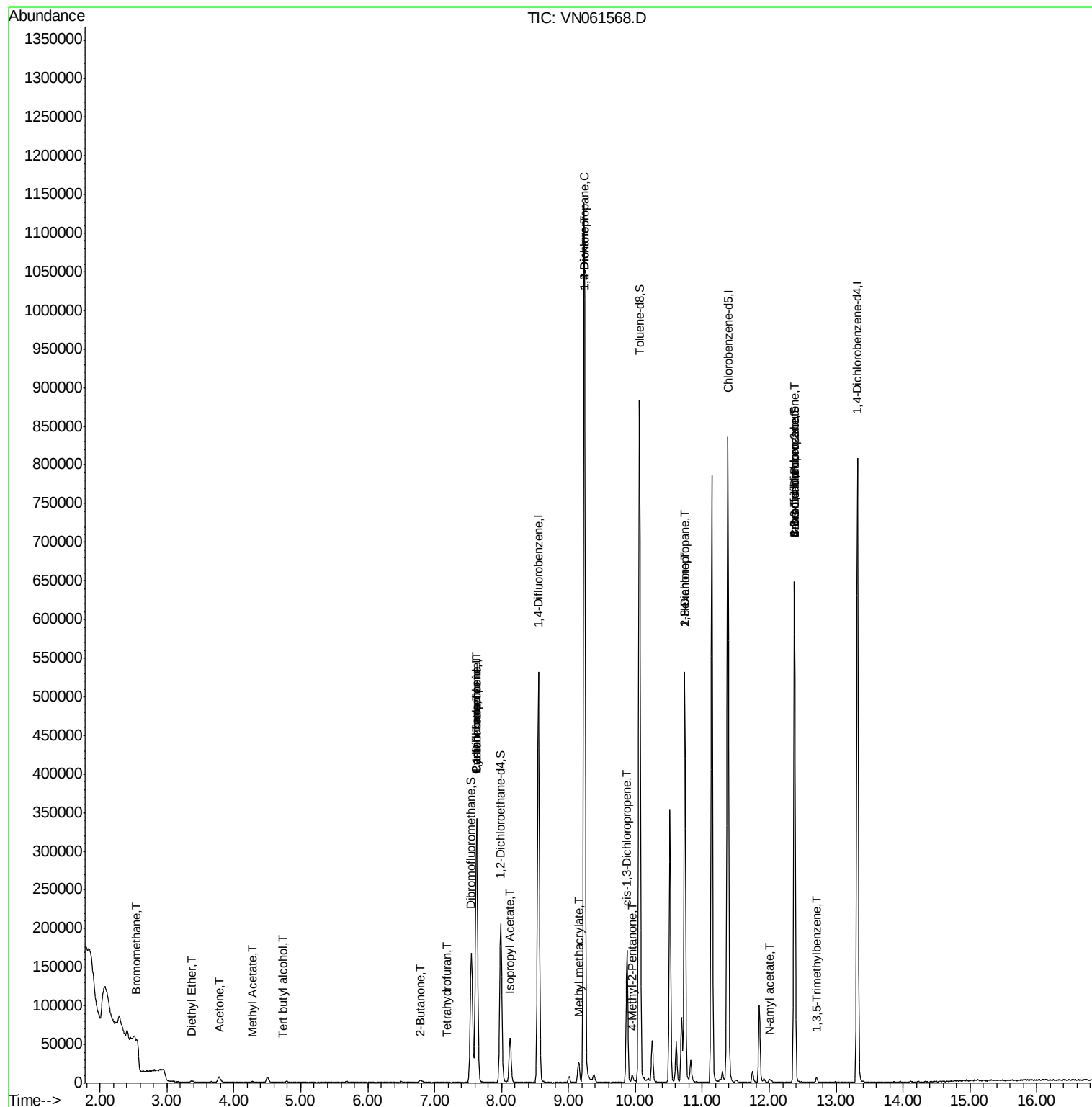
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	686	0.258	ug/l #	36
8) Diethyl Ether	3.38	74	888	0.487	ug/l	66
11) Tert butyl alcohol	4.73	59	233	0.531	ug/l #	72
16) Acetone	3.78	43	12313	7.533	ug/l	98
18) Methyl Acetate	4.28	43	1490	0.499	ug/l #	73
25) 2-Butanone	6.79	43	2424	1.551	ug/l #	83
29) Tetrahydrofuran	7.17	42	615	0.597	ug/l #	29
31) Cyclohexane	7.63	56	5800	1.248	ug/l #	13
36) 1,1-Dichloropropene	7.62	75	21319	4.844	ug/l #	49
38) Carbon Tetrachloride	7.62	117	28310	6.669	ug/l #	16
43) Isopropyl Acetate	8.13	43	66150	10.373	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1480	0.459	ug/l #	44
48) Methyl methacrylate	9.15	41	3868	1.348	ug/l #	5
49) 1,4-Dioxane	9.24	88	29	0.652	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	4513	1.256	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	34271	6.039	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	5685	1.007	ug/l #	42
59) 2-Hexanone	10.74	43	69513	26.934	ug/l #	47
71) Bromoform	12.37	173	1528	0.509	ug/l #	1
74) N-amyl acetate	12.00	43	2921	0.567	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	120003	29.448	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3923	0.287	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	120003	75.305	ug/l #	15

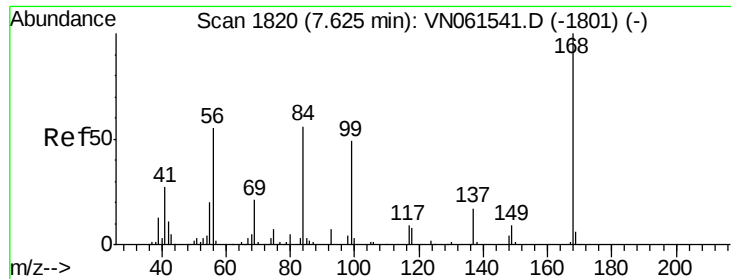
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
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: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

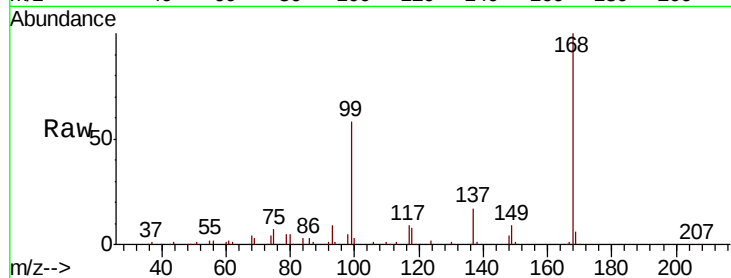
ClientSampled :

Tot Ion:168 Resp: 276806

Ion Ratio Lower Upper

168 100

99 58.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

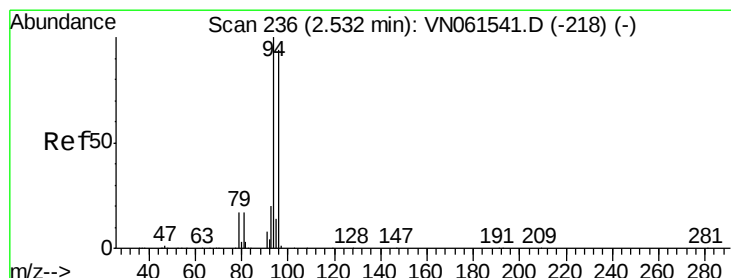
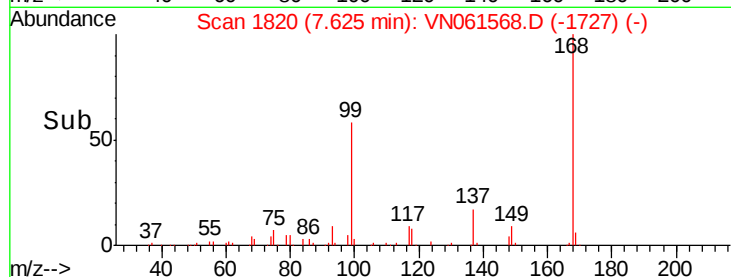
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.258 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN061568.D

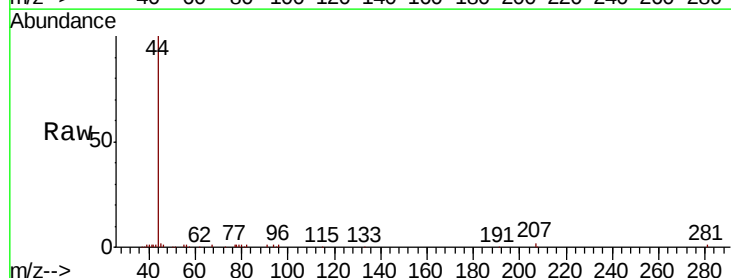
Acq: 29 May 2020 15:35

Tgt Ion: 94 Resp: 686

Ion Ratio Lower Upper

94 100

96 31.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

400

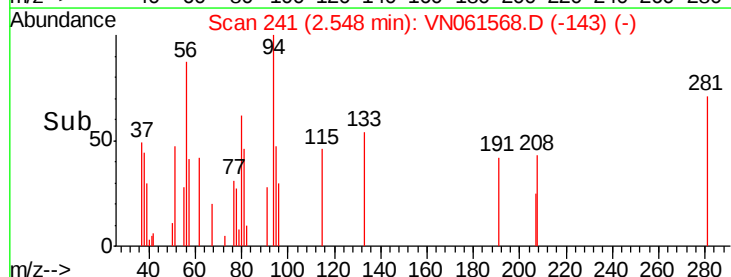
300

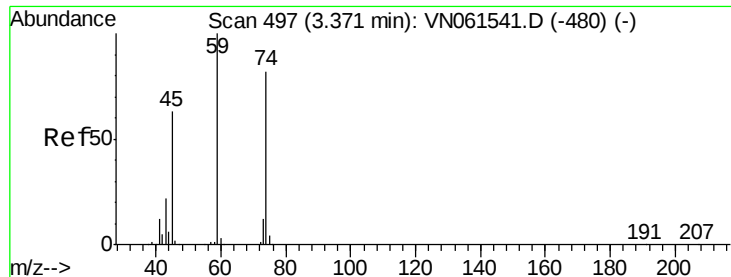
200

100

0

Time--> 2.50 2.52 2.54 2.56 2.58





#8

Diethyl Ether

Concen: 0.487 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.01 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

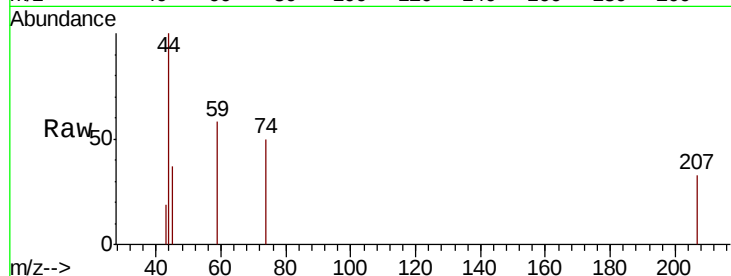
ClientSampleId :

Tot Ion: 74 Resp: 888

Ion Ratio Lower Upper

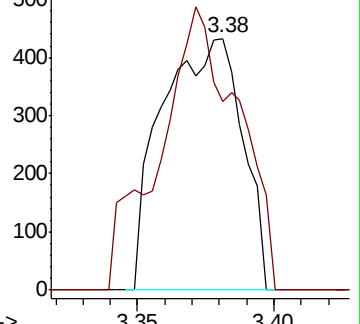
74 100

45 110.0 39.9 119.7

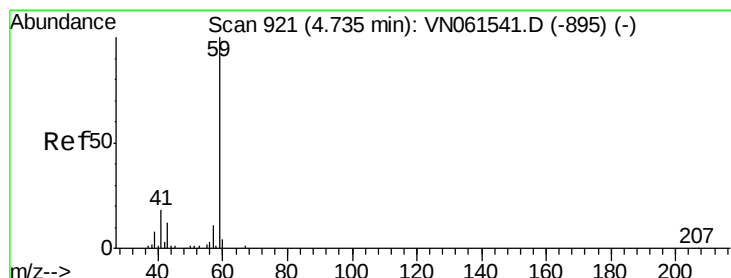
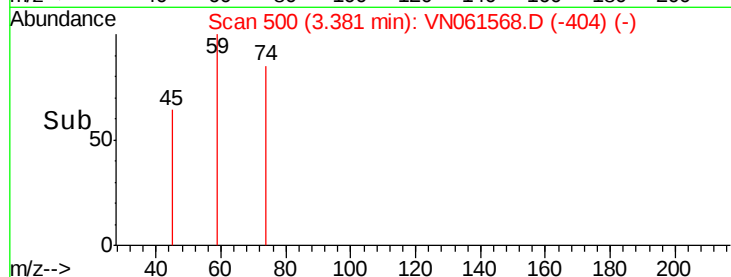


Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



Time-->



#11

Tert butyl alcohol

Concen: 0.531 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.00 min

Lab File: VN061568.D

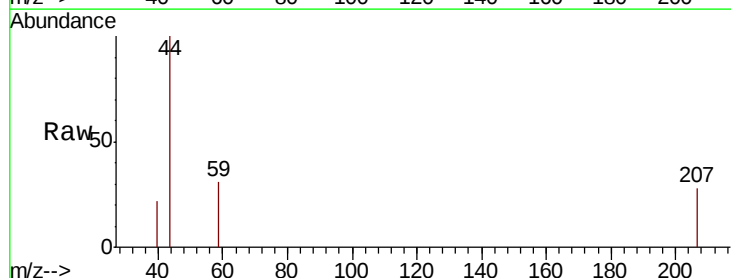
Acq: 29 May 2020 15:35

Tgt Ion: 59 Resp: 233

Ion Ratio Lower Upper

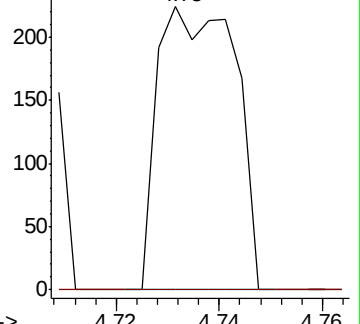
59 100

57 0.0 8.4 12.6#

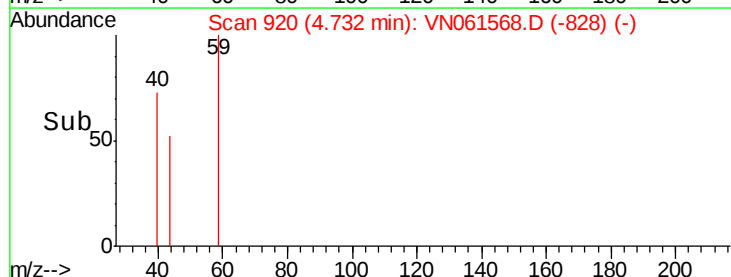


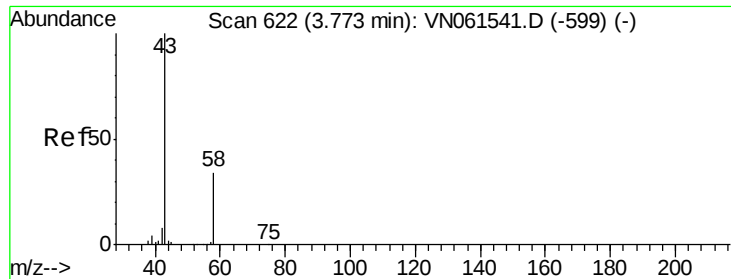
Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->





#16

Acetone

Concen: 7.533 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

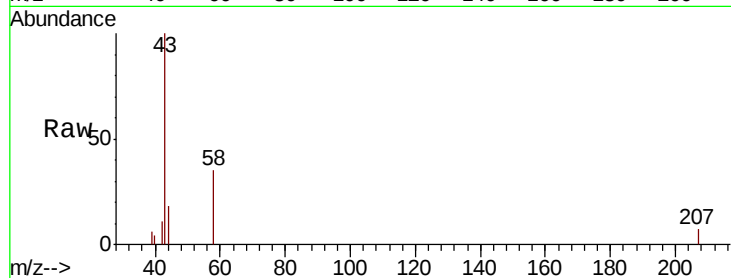
ClientSampled :

Tot Ion: 43 Resp: 12313

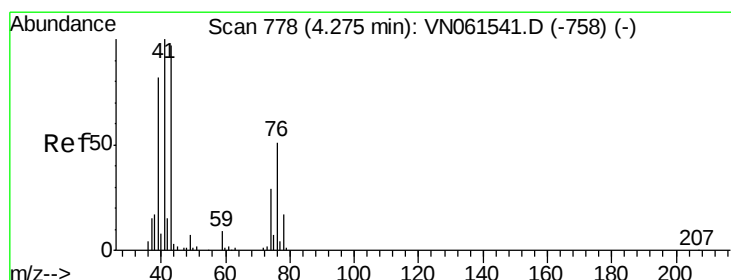
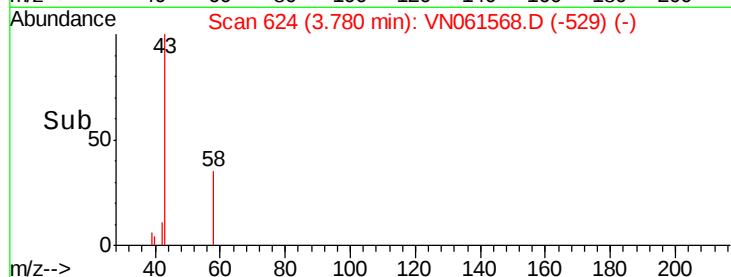
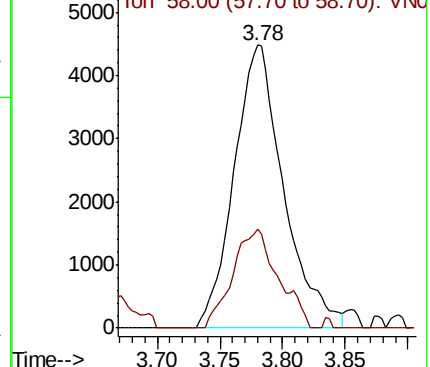
Ion Ratio Lower Upper

43 100

58 35.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN061568.D (-529) (-)



#18

Methyl Acetate

Concen: 0.499 ug/l

RT: 4.28 min Scan# 779

Delta R.T. 0.00 min

Lab File: VN061568.D

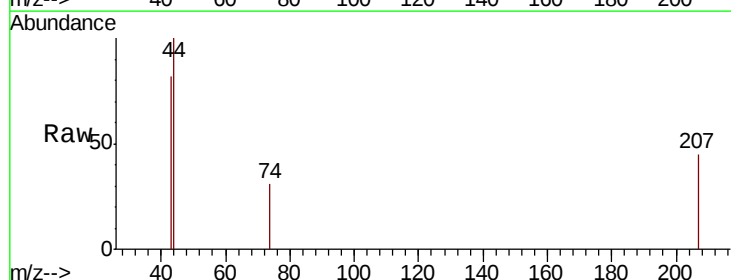
Acq: 29 May 2020 15:35

Tgt Ion: 43 Resp: 1490

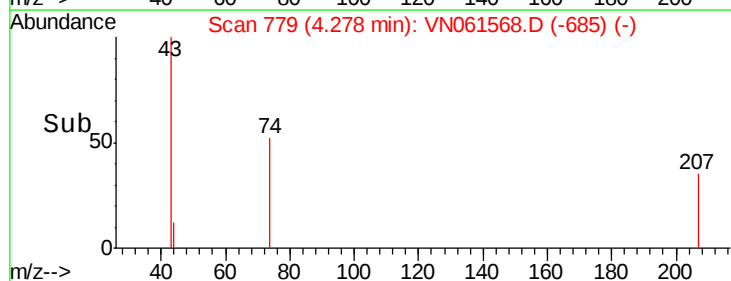
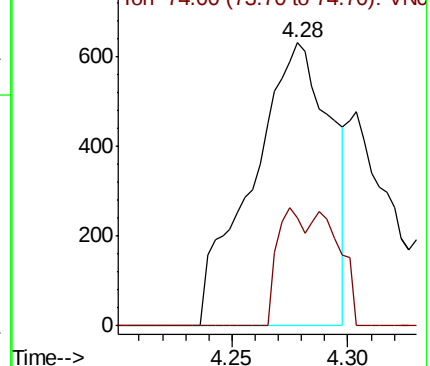
Ion Ratio Lower Upper

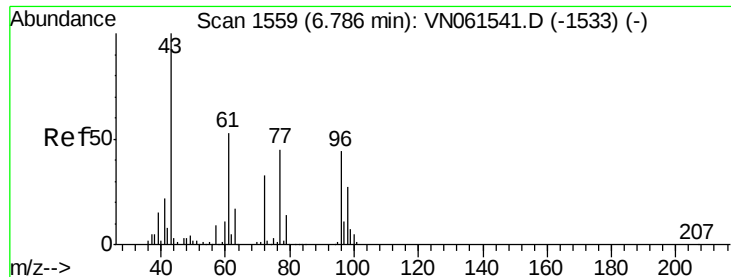
43 100

74 14.4 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VN061568.D (-685) (-)

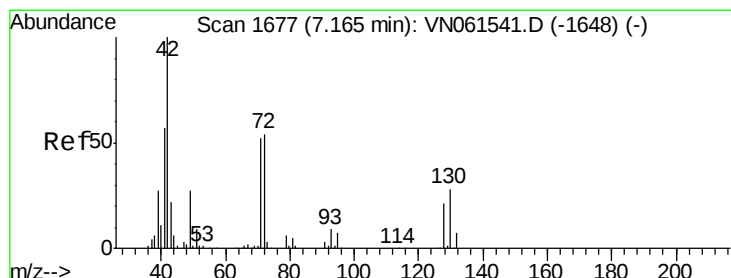
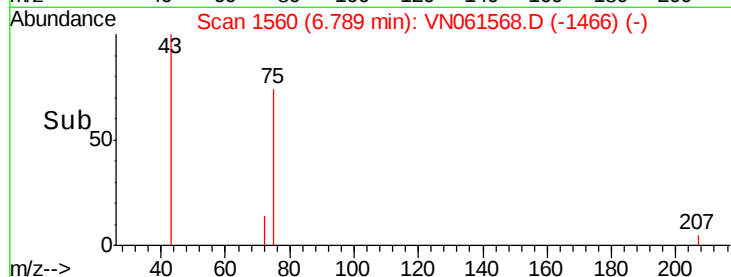
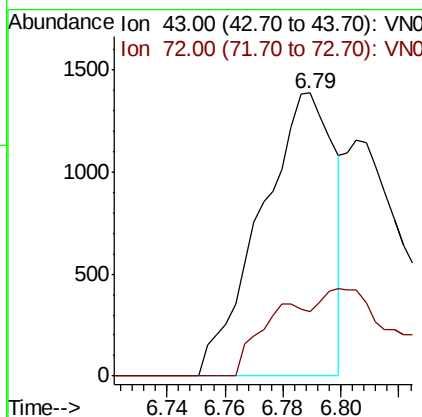
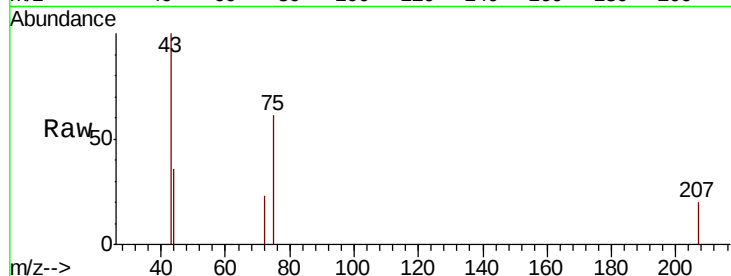




#25
2-Butanone
Concen: 1.551 ug/l
RT: 6.79 min Scan# 1560
Delta R.T. 0.00 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

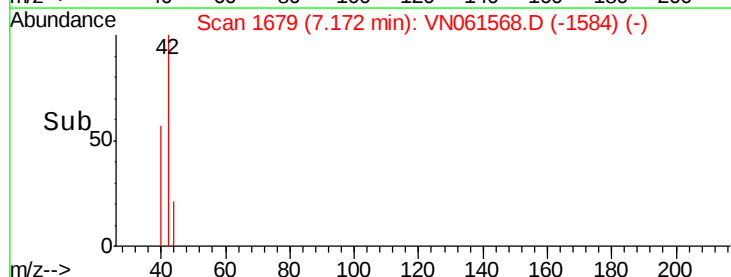
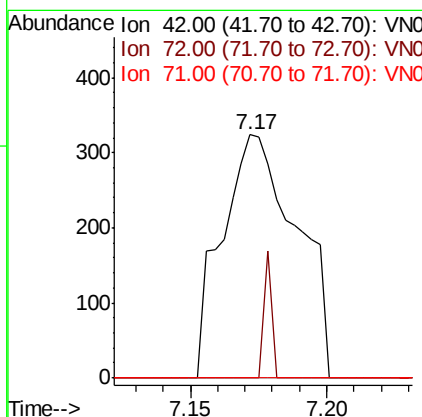
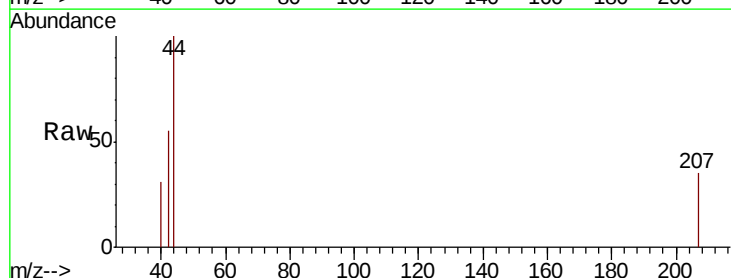
Instrument :
MSVOA_N
ClientSampled :

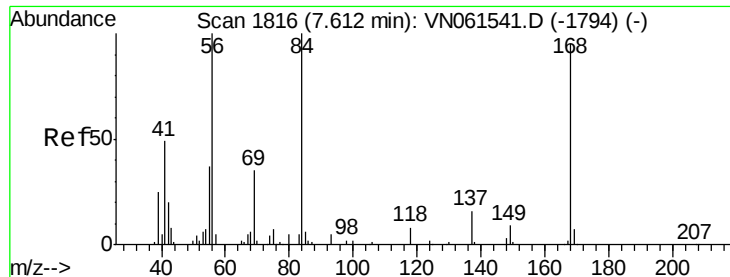
Tot Ion: 43 Resp: 2424
Ion Ratio Lower Upper
43 100
72 22.8 26.0 39.0#



#29
Tetrahydrofuran
Concen: 0.597 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Tgt Ion: 42 Resp: 615
Ion Ratio Lower Upper
42 100
72 5.4 43.6 65.4#
71 0.0 41.2 61.8#

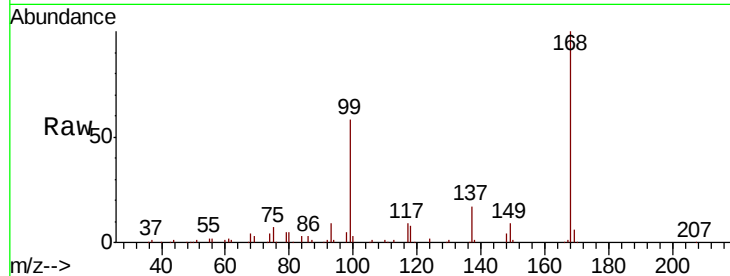




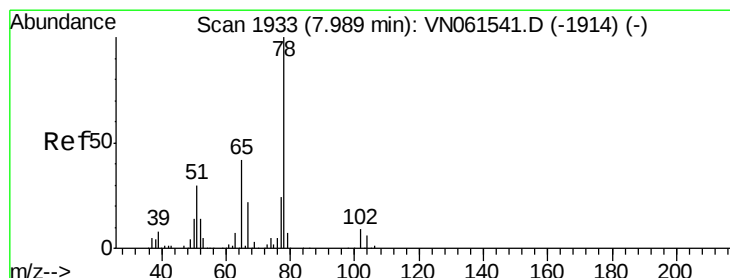
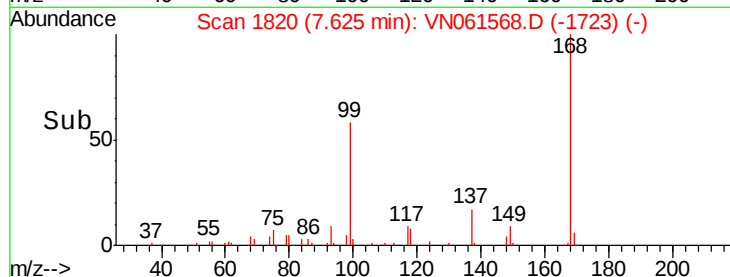
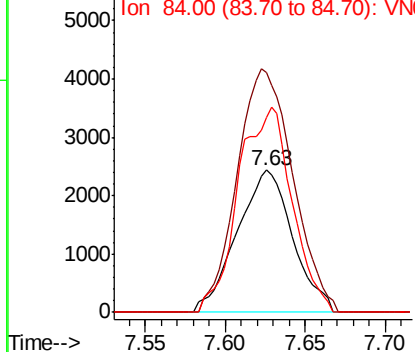
#31
Cyclohexane
Concen: 1.248 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 5800
Ion Ratio Lower Upper
56 100
69 168.7 27.8 41.8#
84 137.1 79.9 119.9#

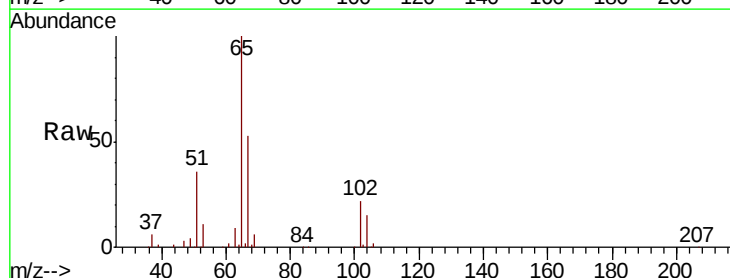


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

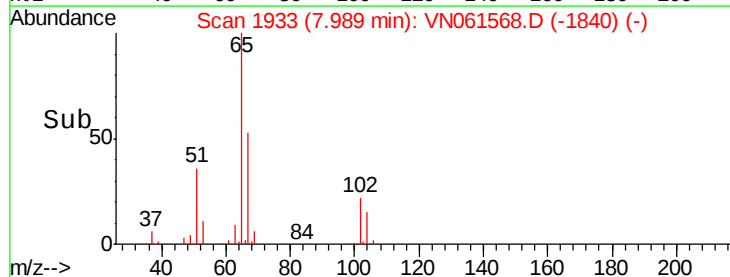
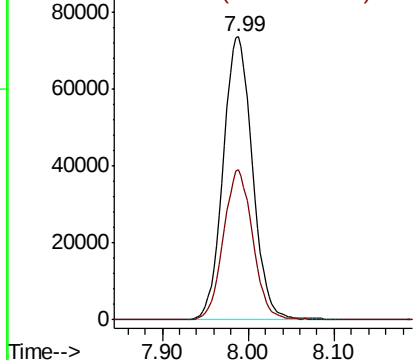


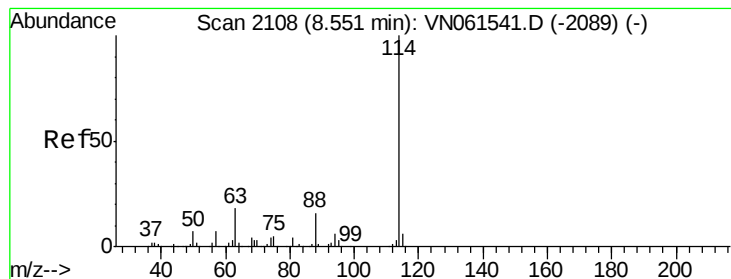
#33
1,2-Dichloroethane-d4
Concen: 53.075 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Tgt Ion: 65 Resp: 175041
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.8



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# 2108

Delta R.T. 0.00 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

ClientSampleId :

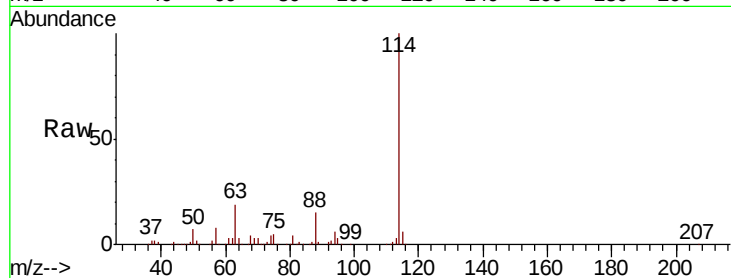
Tot Ion:114 Resp: 497122

Ion Ratio Lower Upper

114 100

63 18.9 0.0 35.8

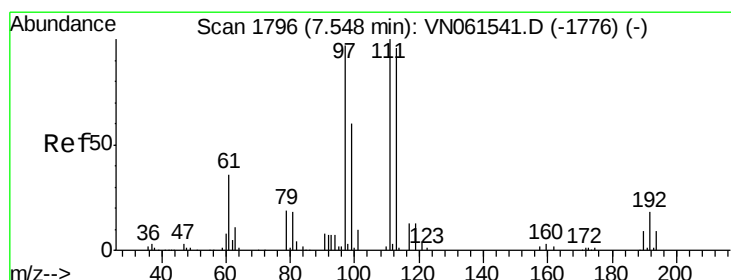
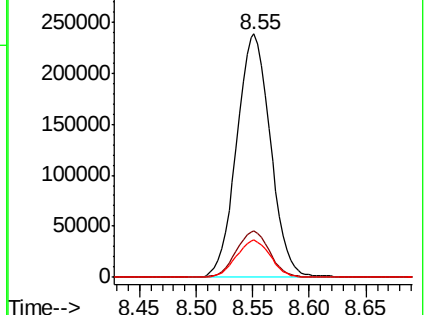
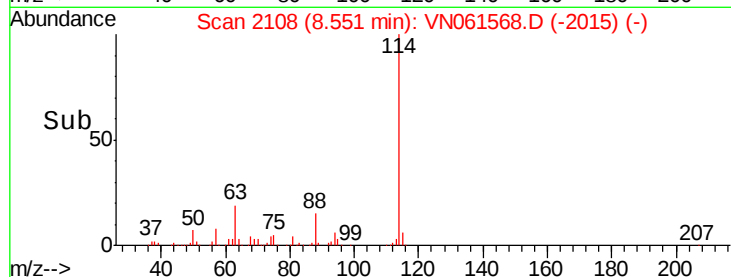
88 15.3 0.0 31.0



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: 51.626 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

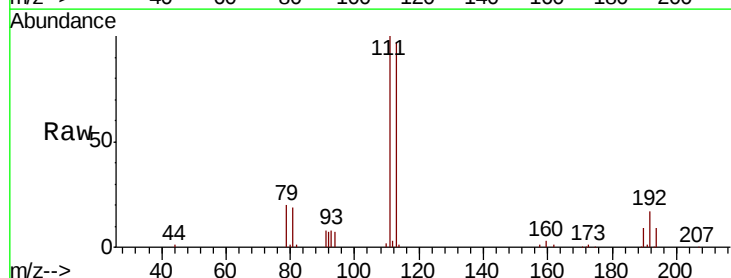
Tgt Ion:113 Resp: 130192

Ion Ratio Lower Upper

113 100

111 102.1 83.4 125.0

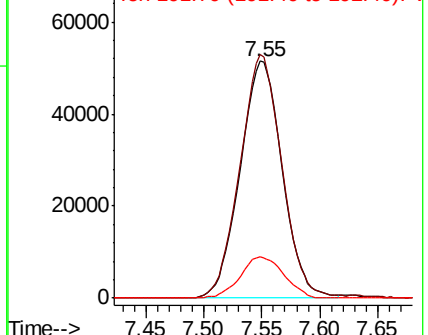
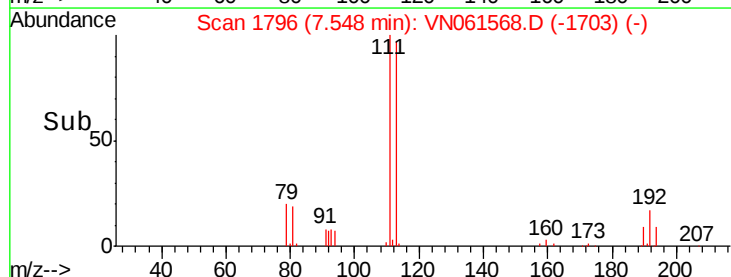
192 18.1 15.4 23.2

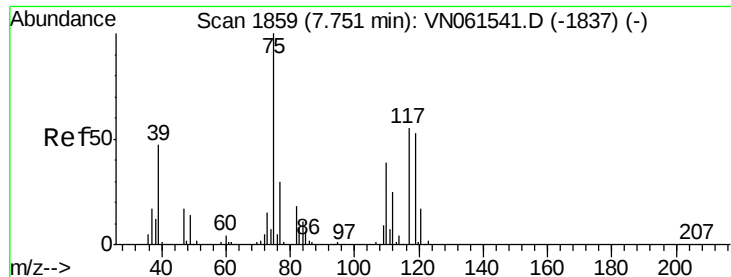


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

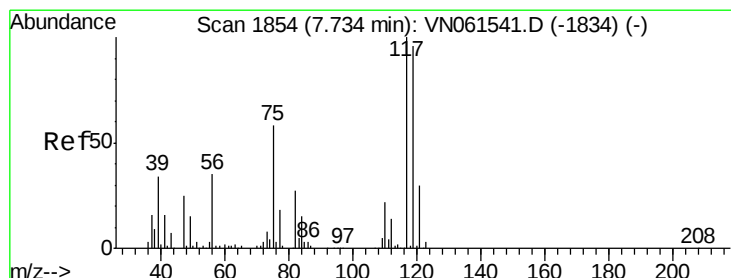
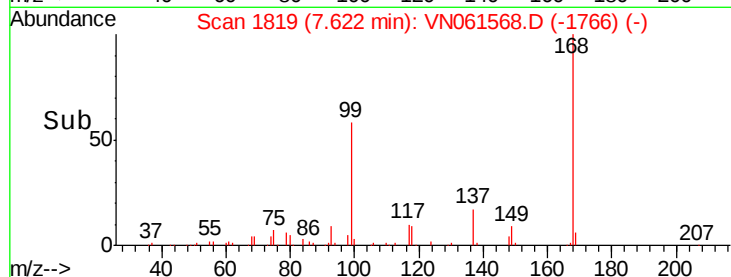
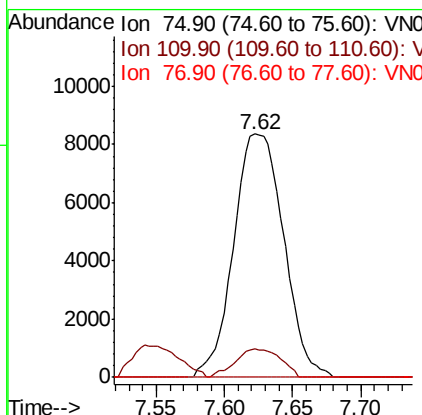
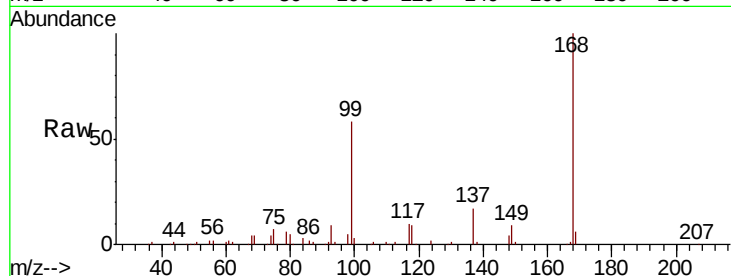




#36
 1,1-Dichloropropene
 Concen: 4.844 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061568.D
 Acq: 29 May 2020 15:35

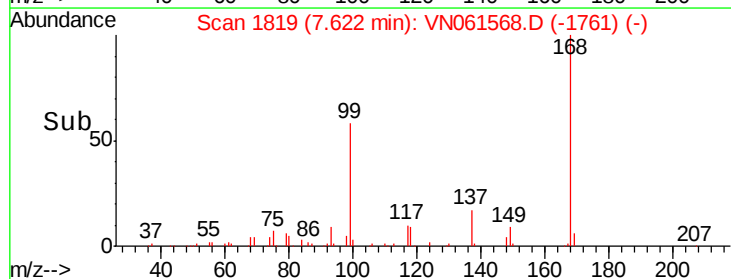
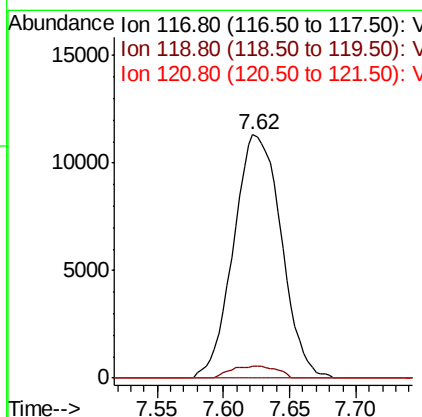
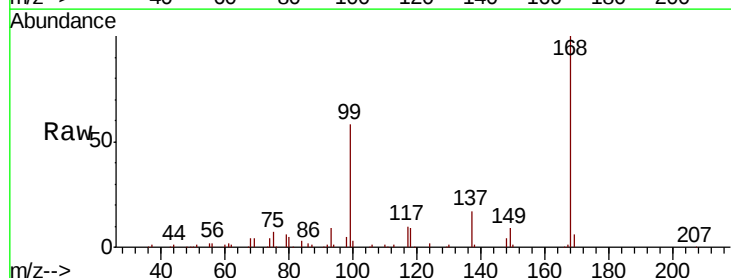
Instrument :
 MSVOA_N
 ClientSampled :

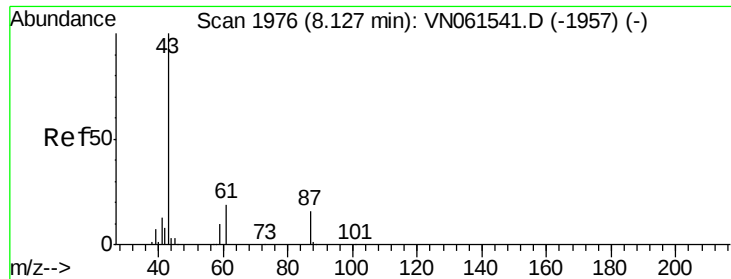
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.669 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.11 min
 Lab File: VN061568.D
 Acq: 29 May 2020 15:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.5	114.7#
121	0.0	24.1	36.1#



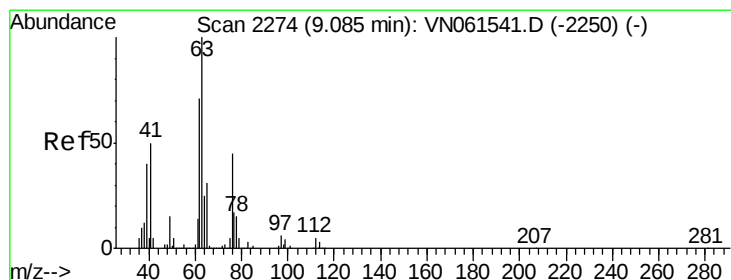
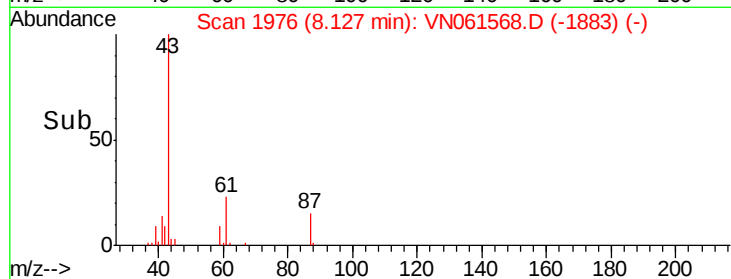
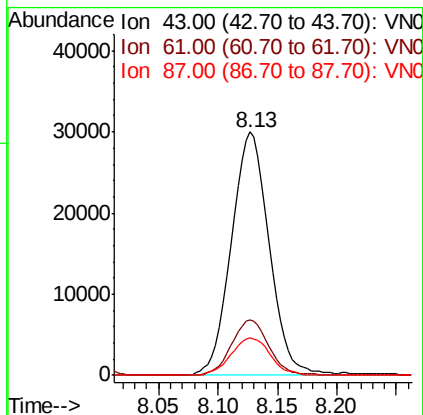
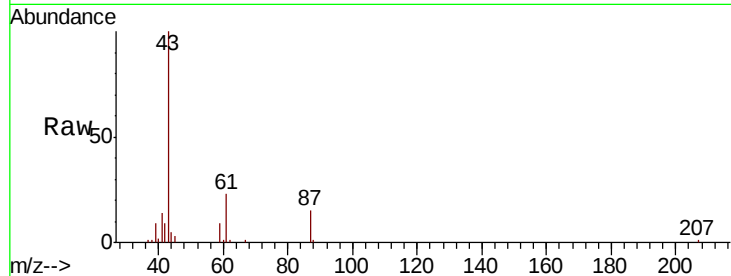


#43

Isopropyl Acetate
 Concen: 10.373 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VN061568.D
 Acq: 29 May 2020 15:35

Instrument :
 MSVOA_N
 ClientSampleId :

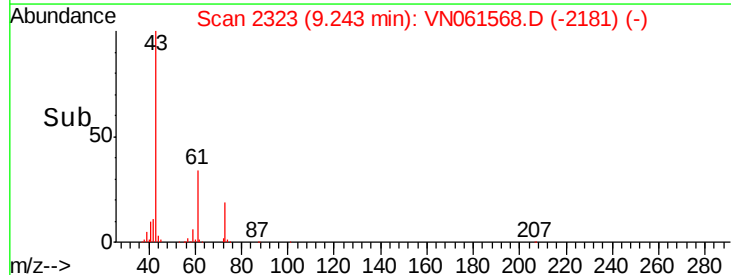
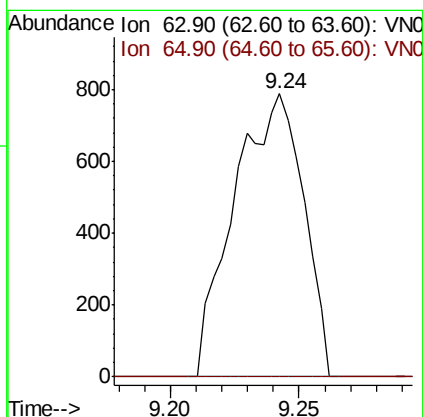
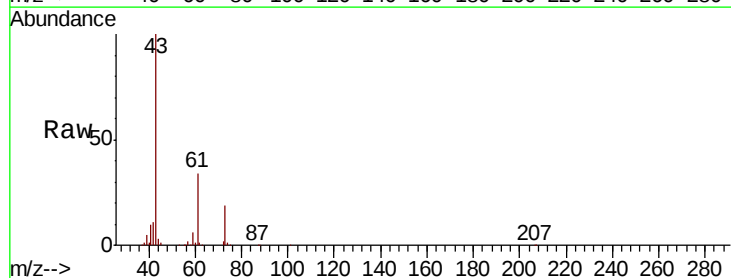
Tot Ion	Ratio	Lower	Upper
43	100		
61	22.2	23.6	35.4#
87	15.8	13.0	19.6

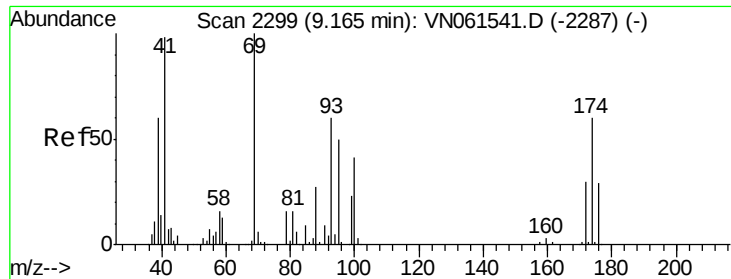


#45

1,2-Dichloropropane
 Concen: 0.459 ug/l
 RT: 9.24 min Scan# 2323
 Delta R.T. 0.16 min
 Lab File: VN061568.D
 Acq: 29 May 2020 15:35

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.7	37.1#

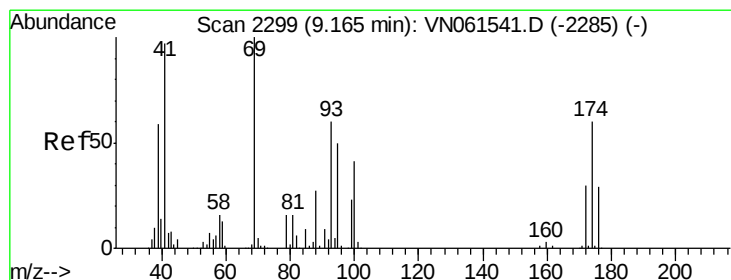
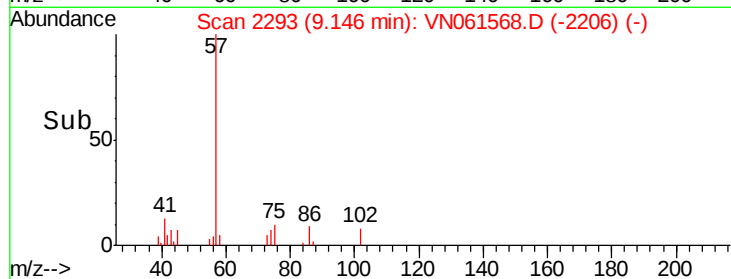
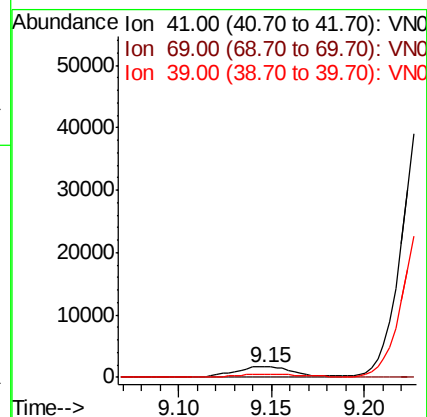
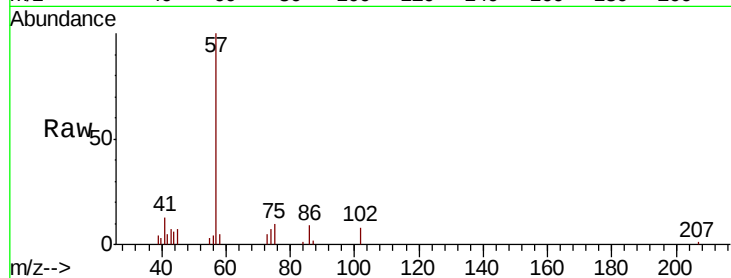




#48
Methvl methacrylate
Concen: 1.348 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

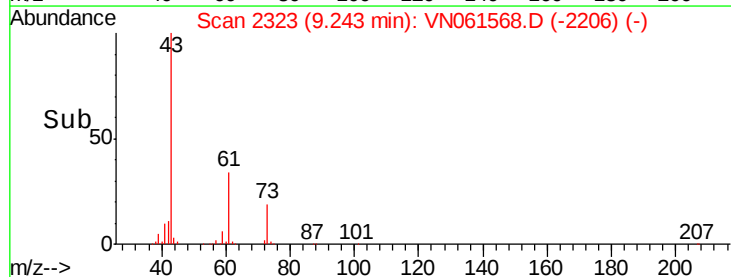
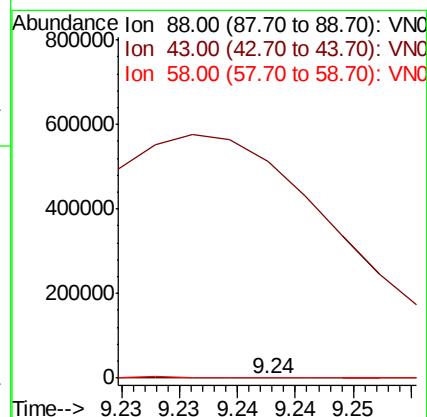
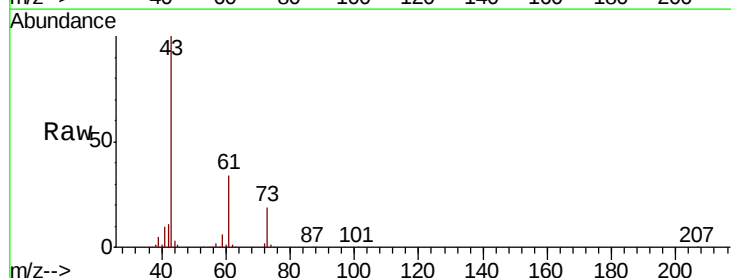
Instrument :
MSVOA_N
ClientSampled :

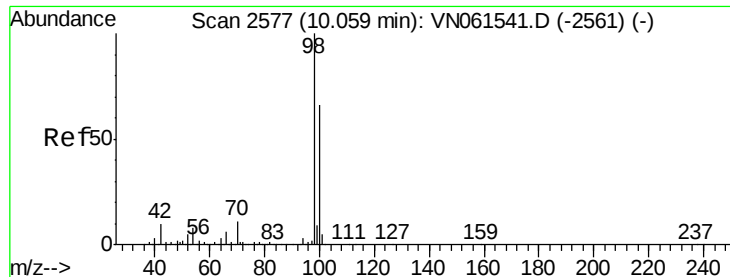
Tot Ion: 41 Resp: 3868
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#49
1,4-Dioxane
Concen: 0.652 ug/l
RT: 9.24 min Scan# 2323
Delta R.T. 0.08 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 3692210.3 23.1 34.7#
58 16955.2 48.3 72.5#





#50

Toluene-d8

Concen: 53.254 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

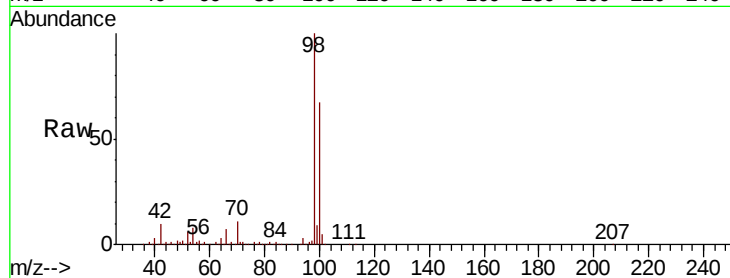
ClientSampleId :

Tot Ion: 98 Resp: 622343

Ion Ratio Lower Upper

98 100

100 65.9 52.8 79.2



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

Ion 100.00 (99.70 to 100.70): VN061541.D (-2561) (-)

10.06

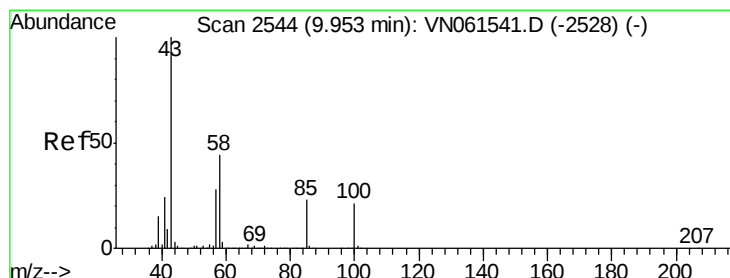
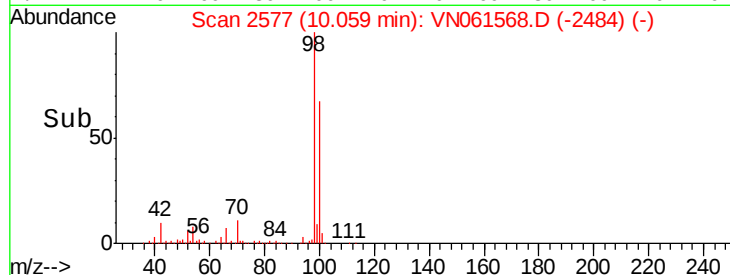
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.256 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061568.D

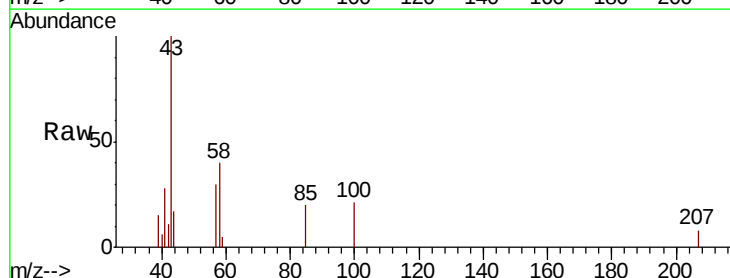
Acq: 29 May 2020 15:35

Tgt Ion: 43 Resp: 4513

Ion Ratio Lower Upper

43 100

58 51.6 35.0 52.6



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

Ion 58.00 (57.70 to 58.70): VN061541.D (-2528) (-)

9.96

4000

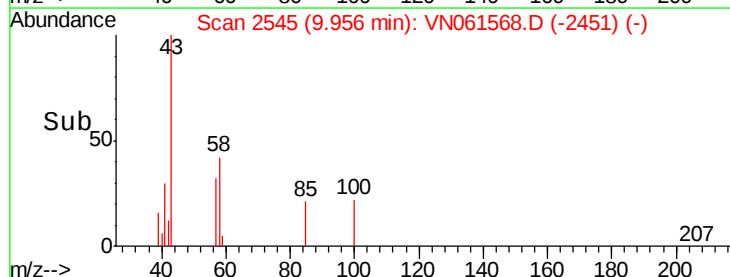
3000

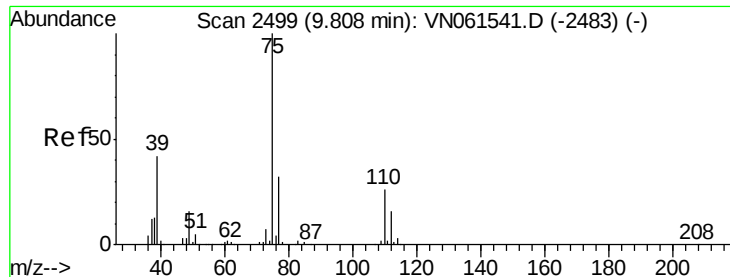
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.039 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

ClientSampleId :

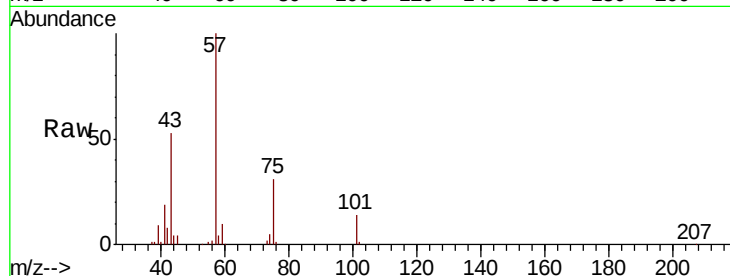
Tot Ion: 75 Resp: 34271

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

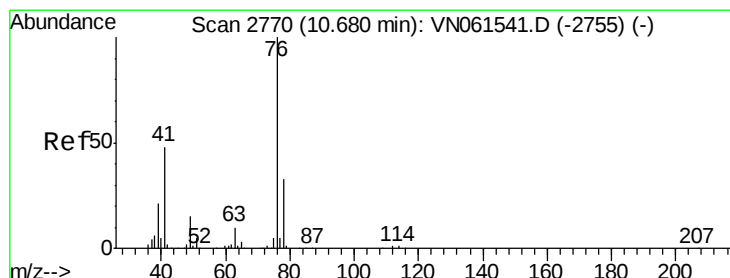
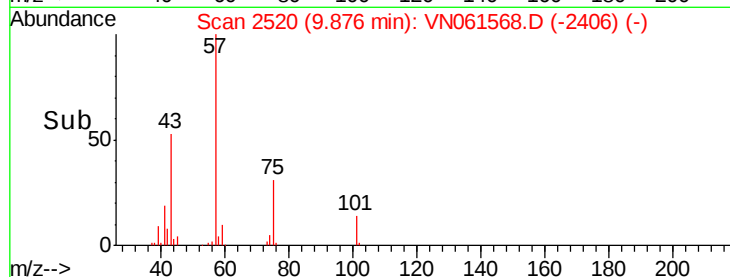
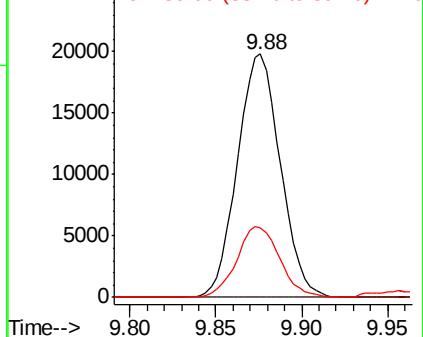
39 28.6 33.8 50.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.007 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061568.D

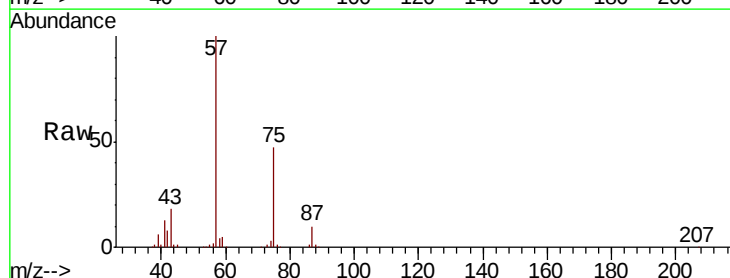
Acq: 29 May 2020 15:35

Tgt Ion: 76 Resp: 5685

Ion Ratio Lower Upper

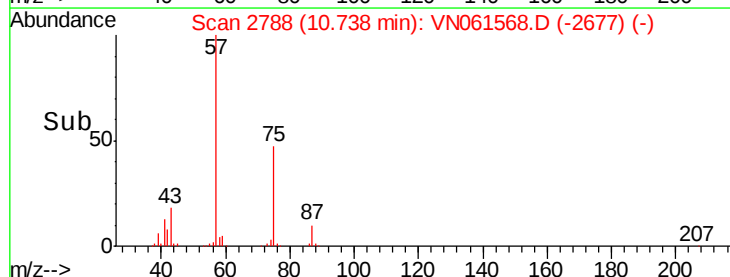
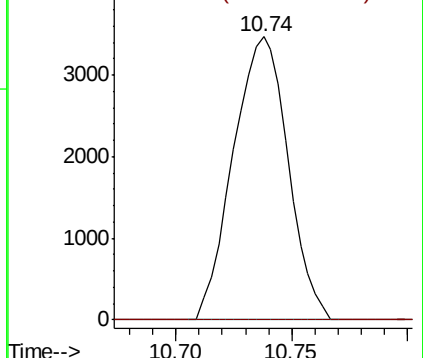
76 100

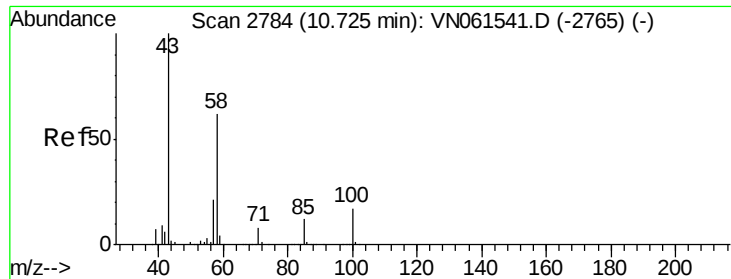
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

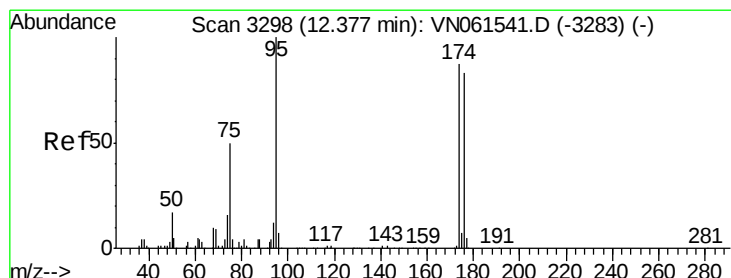
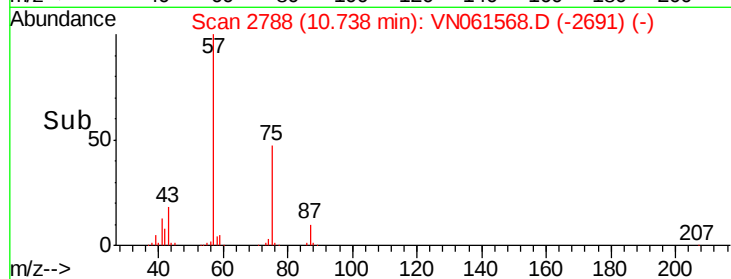
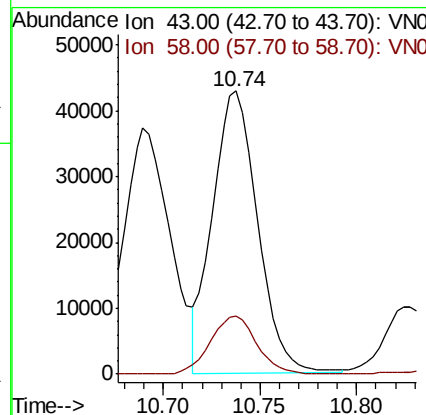
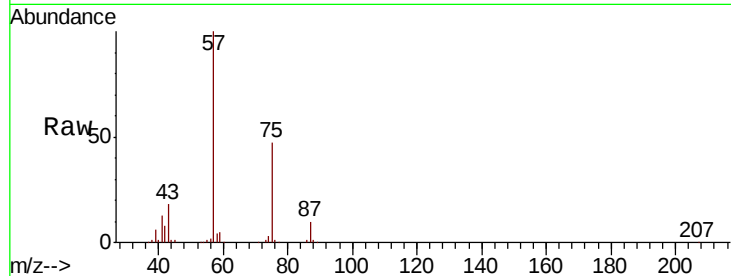




#59
2-Hexanone
Concen: 26.934 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

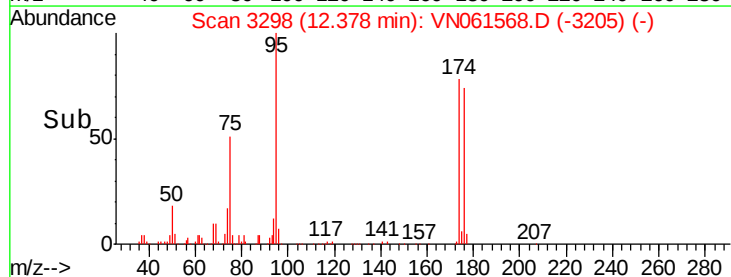
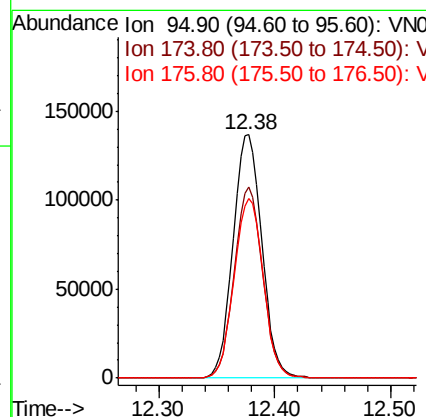
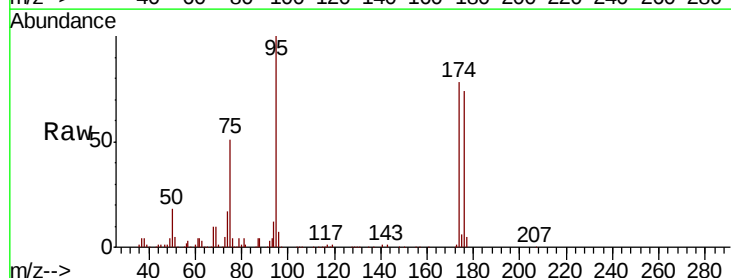
Instrument :
MSVOA_N
ClientSampled :

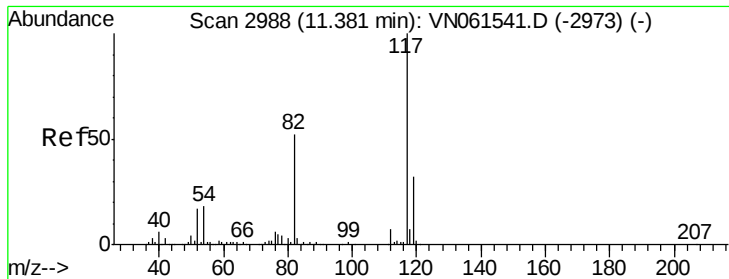
Tot Ion: 43 Resp: 69513
Ion Ratio Lower Upper
43 100
58 21.0 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 54.909 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Tgt Ion: 95 Resp: 234112
Ion Ratio Lower Upper
95 100
174 77.1 0.0 172.8
176 74.8 0.0 164.8

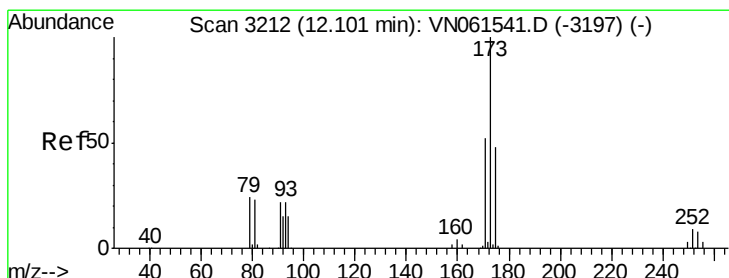
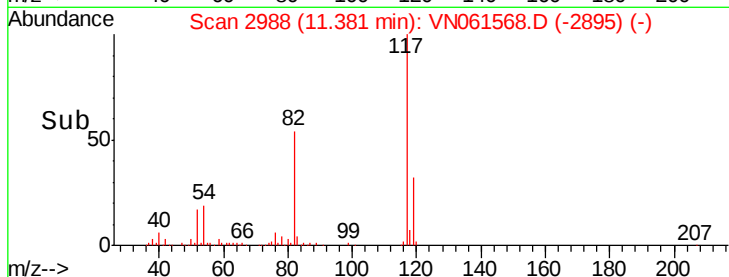
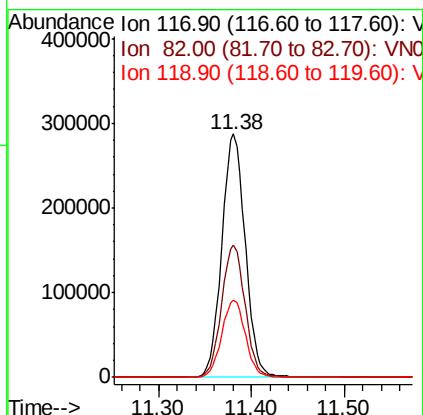
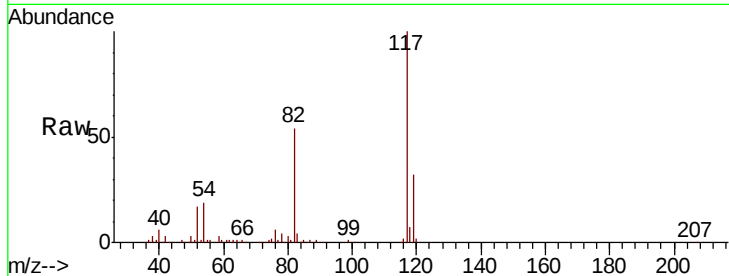




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

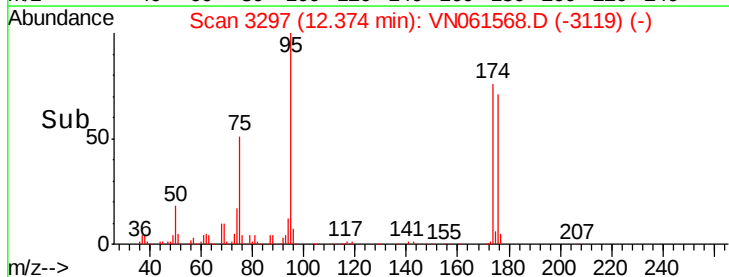
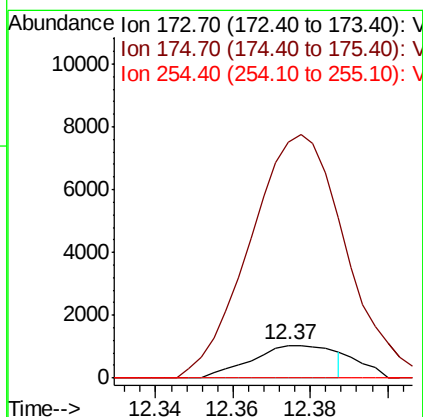
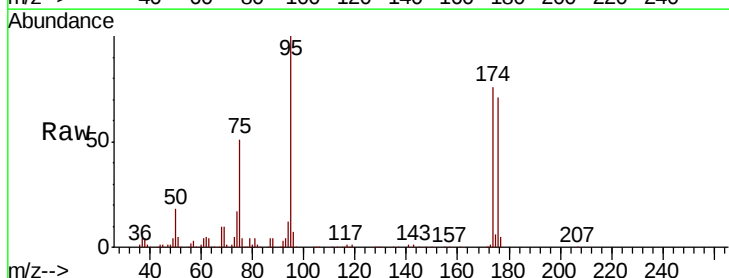
Instrument :
MSVOA_N
ClientSampleId :

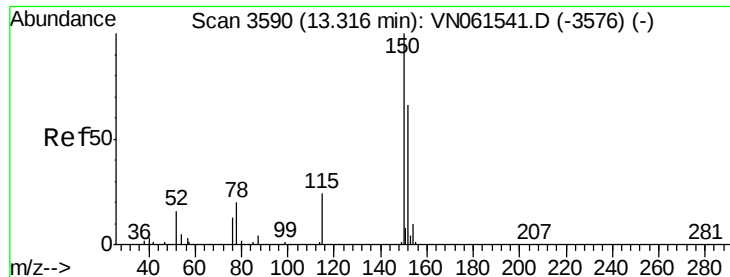
Tot Ion:117 Resp: 503527
Ion Ratio Lower Upper
117 100
82 54.3 41.5 62.3
119 32.0 25.6 38.4



#71
Bromoform
Concen: 0.509 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061568.D
Acq: 29 May 2020 15:35

Tgt Ion:173 Resp: 1528
Ion Ratio Lower Upper
173 100
175 744.1 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

ClientSampleId :

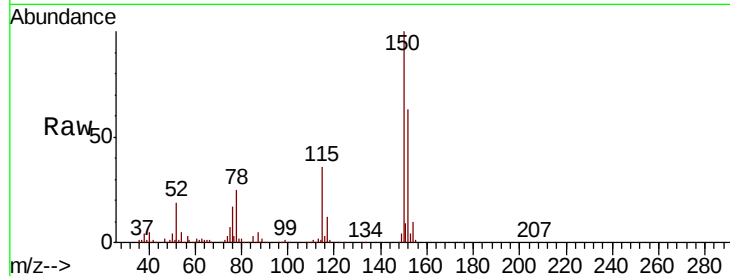
Tot Ion:152 Resp: 224107

Ion Ratio Lower Upper

152 100

115 58.4 28.0 84.0

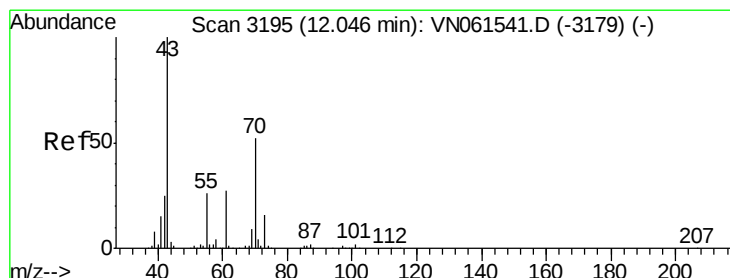
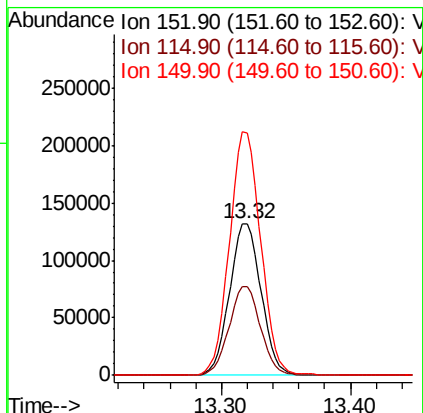
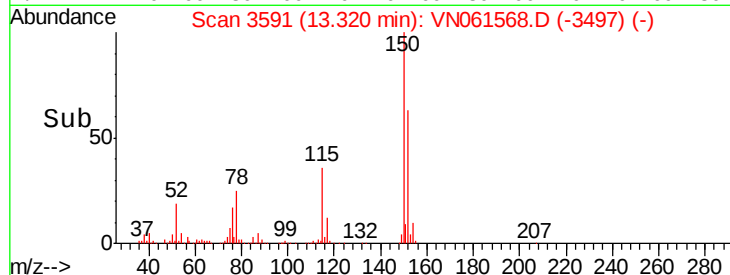
150 159.1 0.0 344.0



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



#74

N-ethyl acetate

Concen: 0.567 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Tgt Ion: 43 Resp: 2921

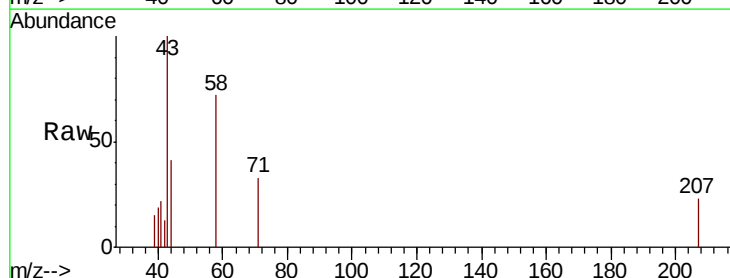
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

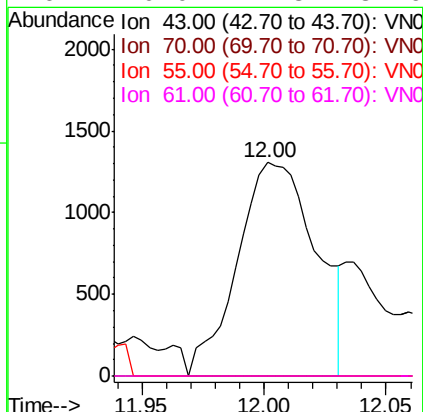
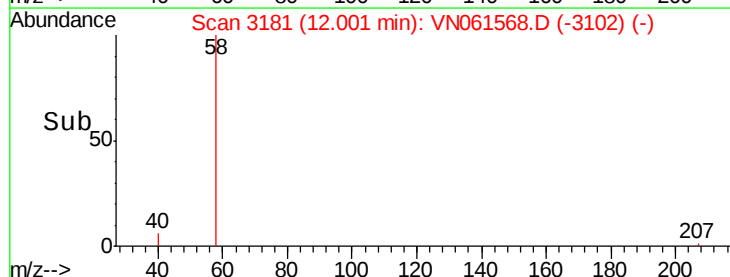


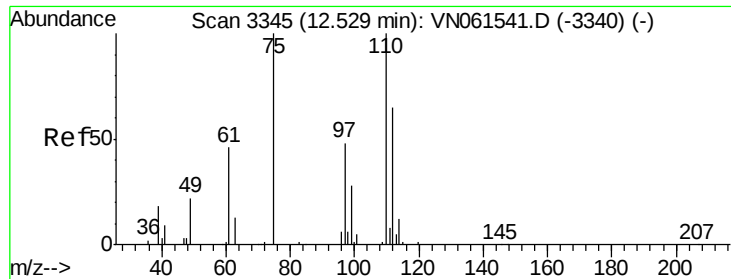
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.448 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

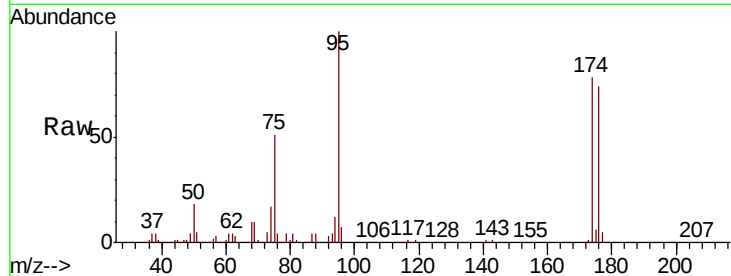
ClientSampleId :

Tot Ion: 75 Resp: 120003

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061541.D (-3340) (-)

12.38

80000

60000

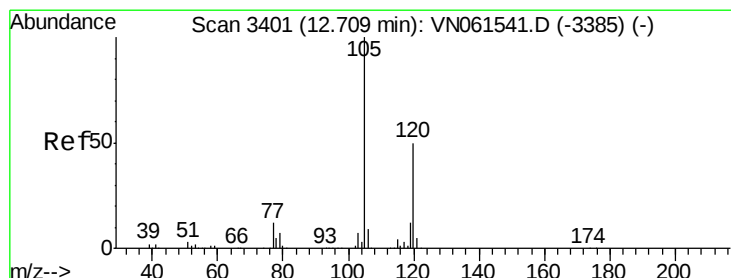
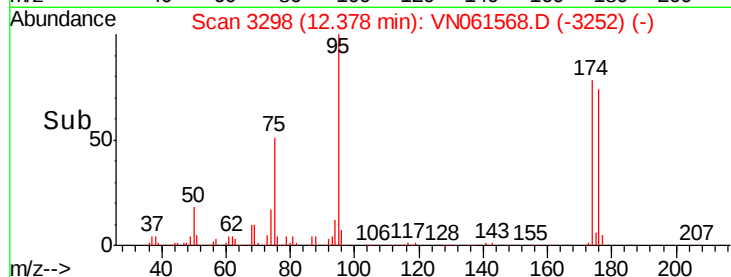
40000

20000

0

12.30 12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.287 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061568.D

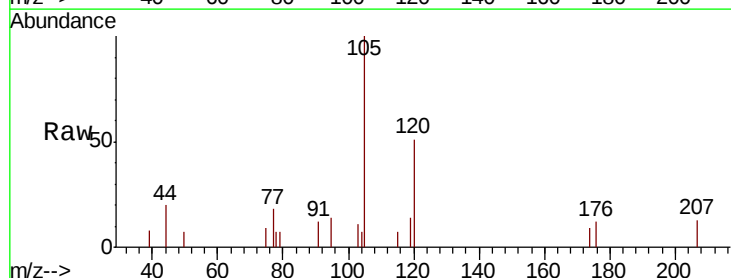
Acq: 29 May 2020 15:35

Tgt Ion:105 Resp: 3923

Ion Ratio Lower Upper

105 100

120 49.4 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)

12.71

2500

2000

1500

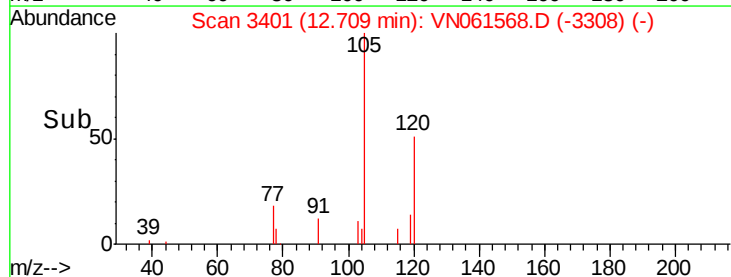
1000

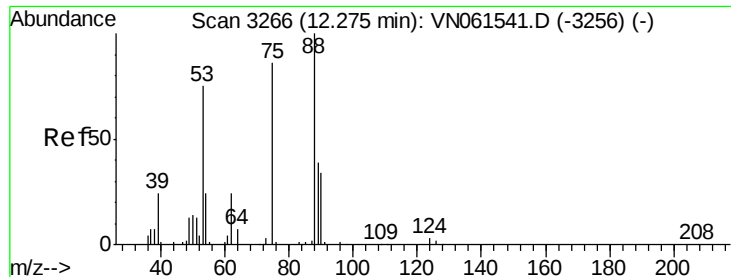
500

0

12.65 12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 75.305 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061568.D

Acq: 29 May 2020 15:35

Instrument :

MSVOA_N

ClientSampleId :

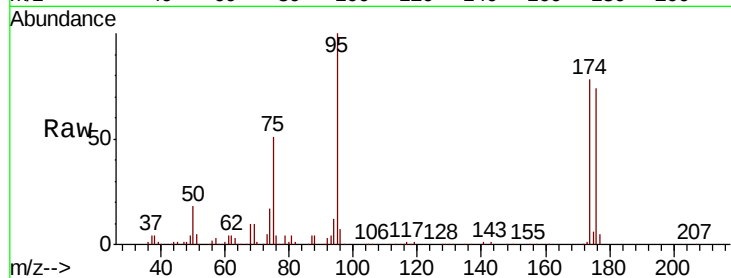
Tot Ion: 75 Resp: 120003

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

