

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021120\
 Data File : VN060061.D
 Acq On : 11 Feb 2020 13:34
 Operator : JC/MD
 Sample : PB126730ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 12 04:23:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	198980	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313655	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293325	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	130964	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	115098	52.09	ug/l	0.00
Spiked Amount			Recovery	=	104.18%	
35) Dibromofluoromethane	7.57	113	94861	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.08	98	376392	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
62) 4-Bromofluorobenzene	12.40	95	135989	52.05	ug/l	0.00
Spiked Amount			Recovery	=	104.10%	

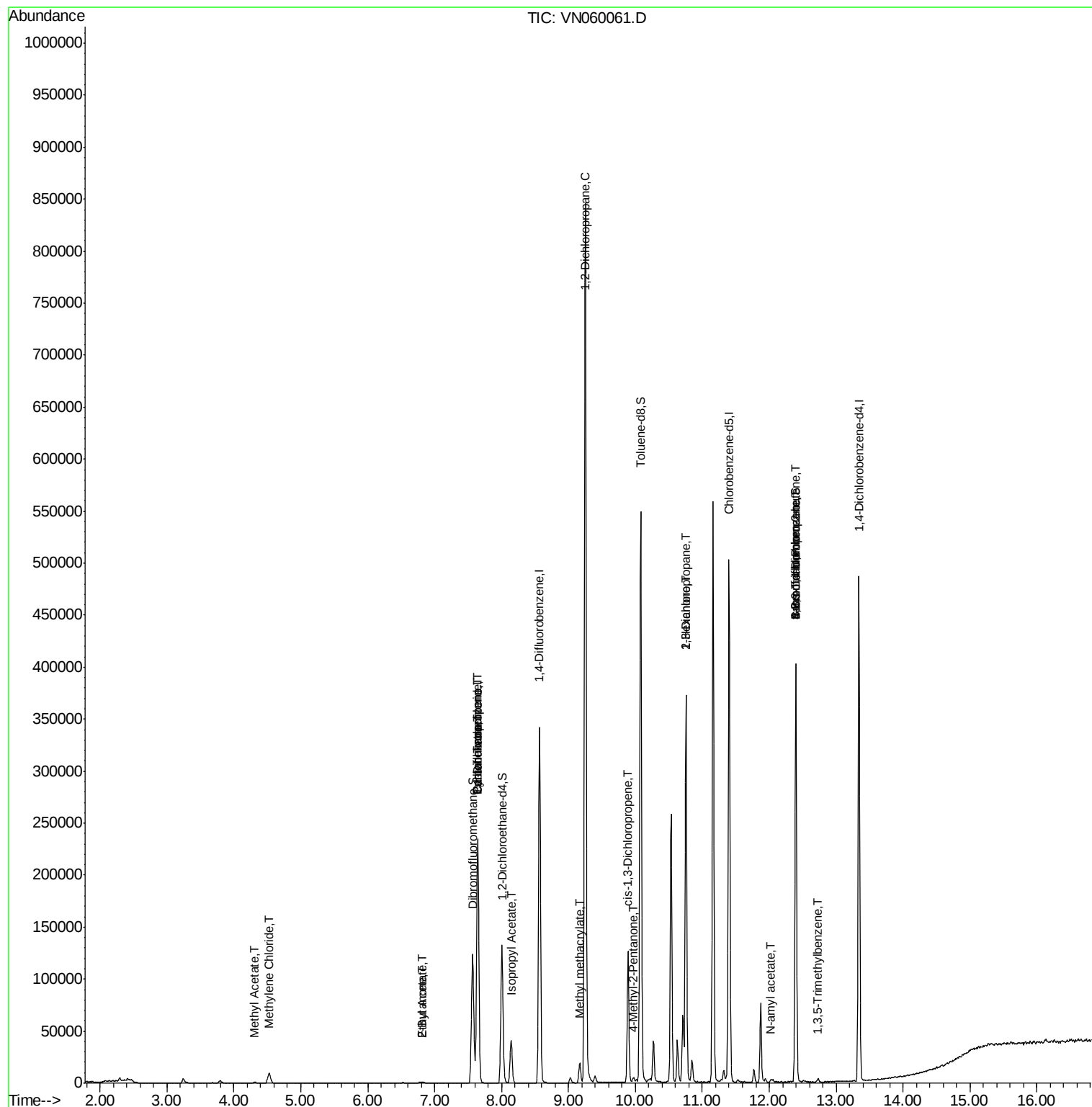
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	4066	Below Cal		92
18) Methyl Acetate	4.30	43	1309	0.507	ug/l #	54
20) Methylene Chloride	4.52	84	7529	2.538	ug/l	86
25) 2-Butanone	6.82	43	1417	1.132	ug/l #	50
31) Cyclohexane	7.64	56	4009	1.226	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14135	5.175	ug/l #	50
37) Ethyl Acetate	6.82	43	1417	0.553	ug/l #	69
38) Carbon Tetrachloride	7.64	117	19066	6.417	ug/l #	16
43) Isopropyl Acetate	8.14	43	49374	11.205	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1075	0.533	ug/l #	44
48) Methyl methacrylate	9.16	41	2815	1.428	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3225	1.266	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	24059	7.147	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	3998	1.236	ug/l #	42
59) 2-Hexanone	10.75	43	54527	29.057	ug/l #	54
71) Bromoform	12.39	173	551	0.309	ug/l #	1
74) N-amyl acetate	12.03	43	2714	0.728	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	70539	32.005	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1953	0.242	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	70539	68.731	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	121	Below Cal	#	6

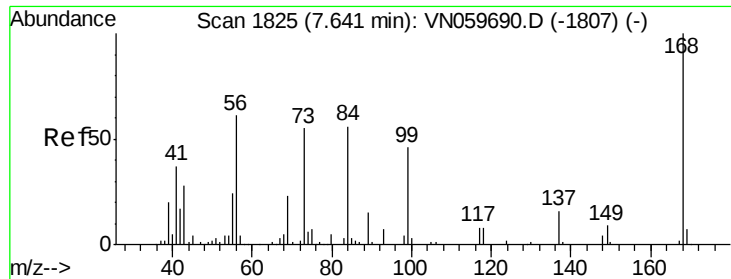
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

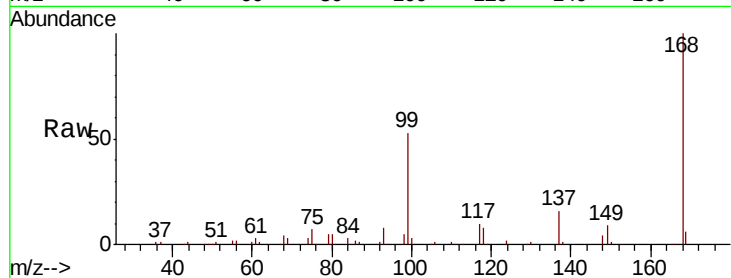
ClientSampled :

Tot Ion:168 Resp: 198980

Ion Ratio Lower Upper

168 100

99 53.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

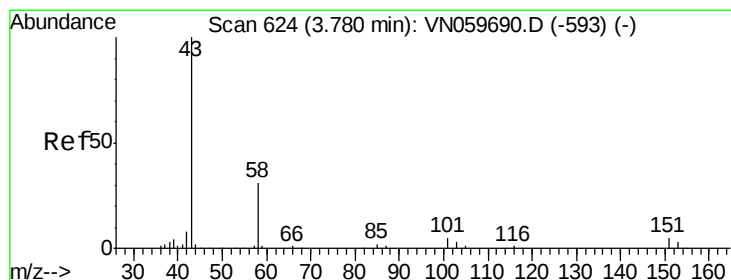
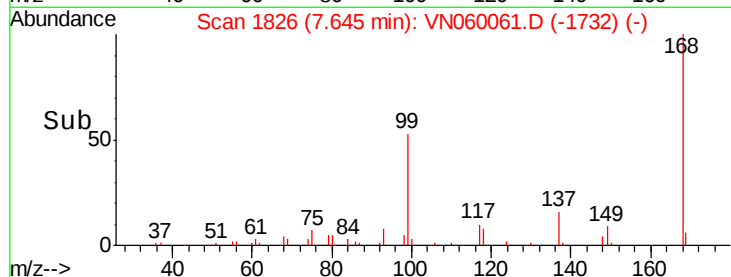
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060061.D

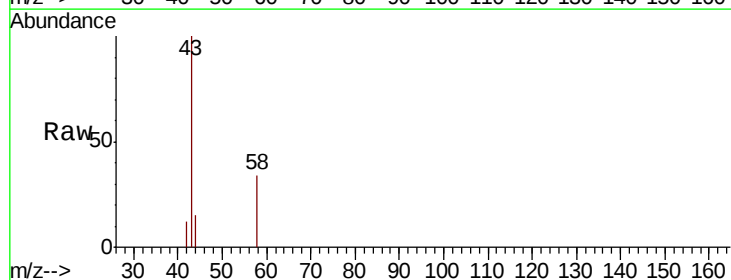
Acq: 11 Feb 2020 13:34

Tgt Ion: 43 Resp: 4066

Ion Ratio Lower Upper

43 100

58 33.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

1500

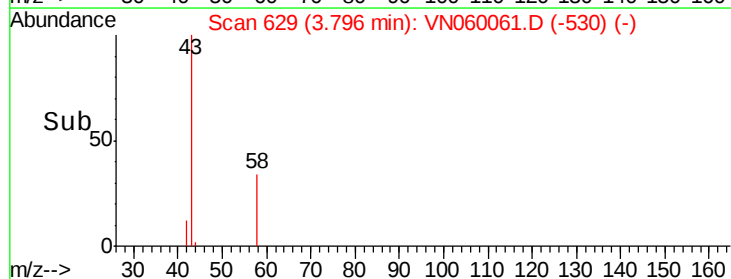
1000

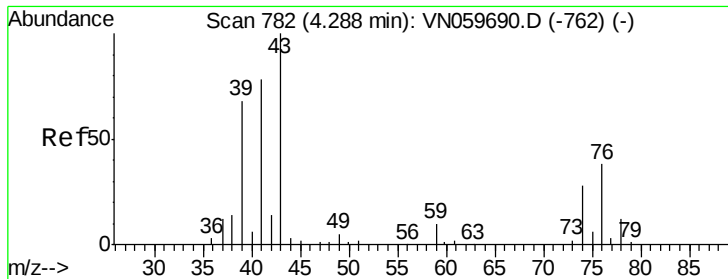
500

0

3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 0.507 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

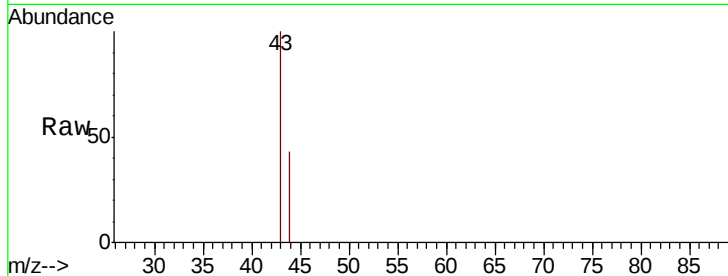
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1309

Ion Ratio Lower Upper

43 100

74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

500

400

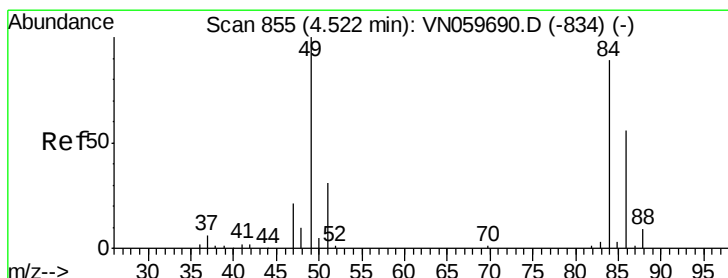
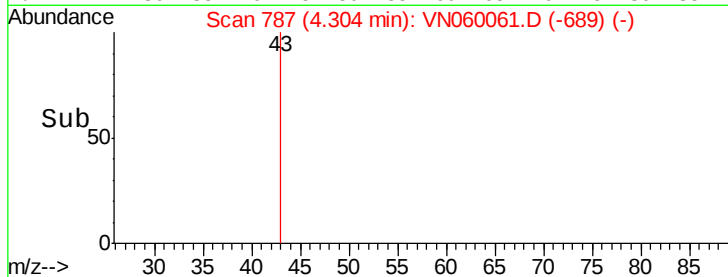
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: 2.538 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Tgt Ion: 84 Resp: 7529

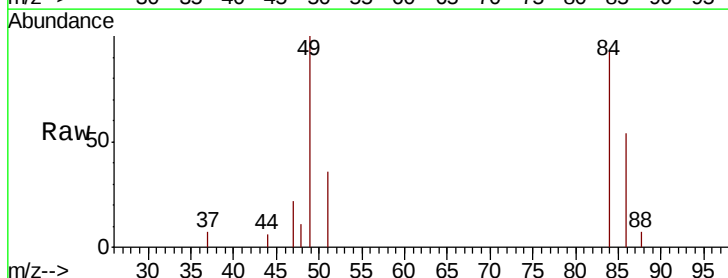
Ion Ratio Lower Upper

84 100

49 107.7 106.6 160.0

51 38.9 31.9 47.9

86 58.2 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

4000

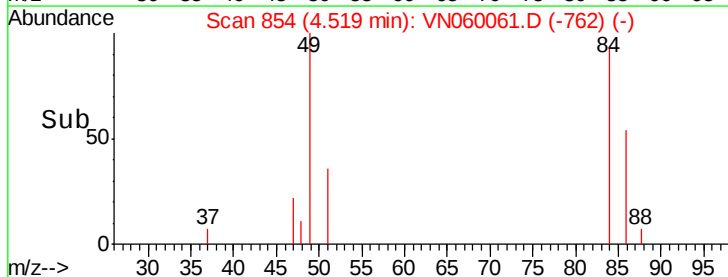
3000

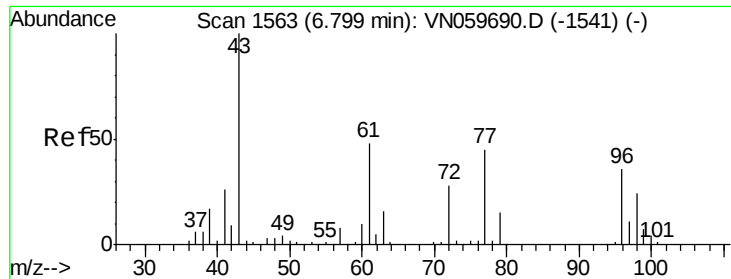
2000

1000

0

Time-->





#25

2-Butanone

Concen: 1.132 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.02 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

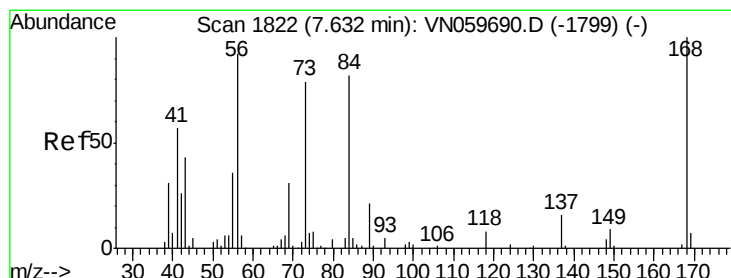
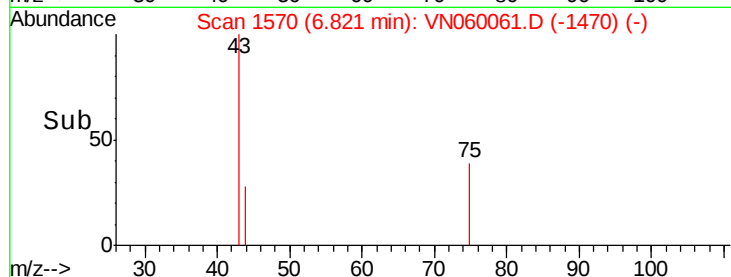
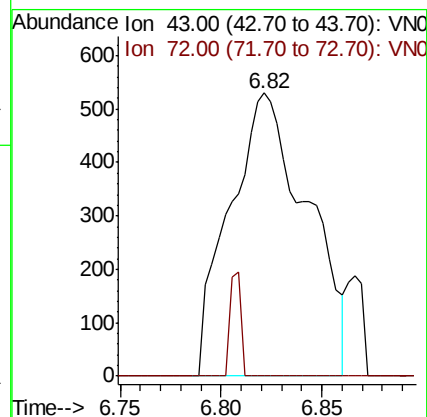
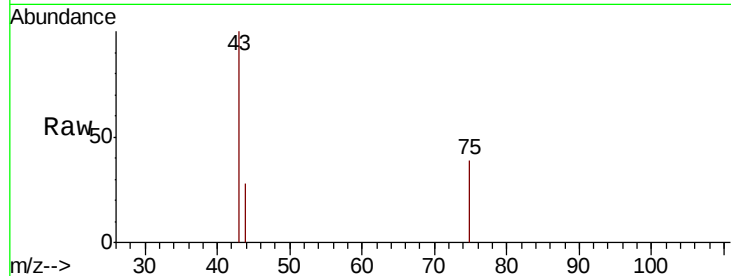
ClientSampleId :

Tot Ion: 43 Resp: 1417

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



#31

Cyclohexane

Concen: 1.226 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

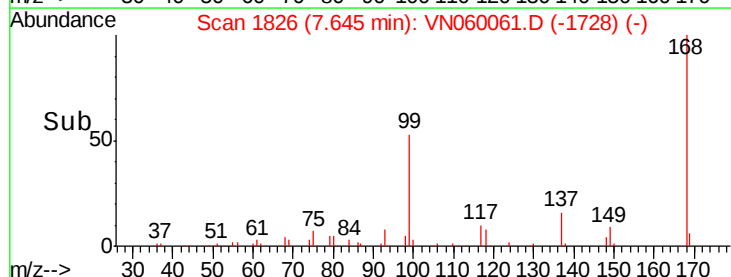
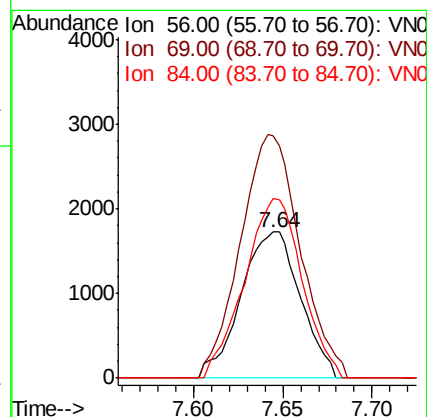
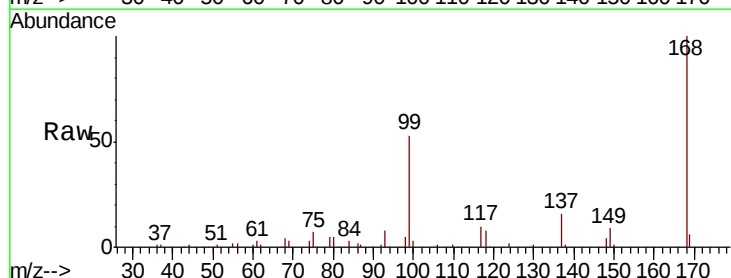
Tgt Ion: 56 Resp: 4009

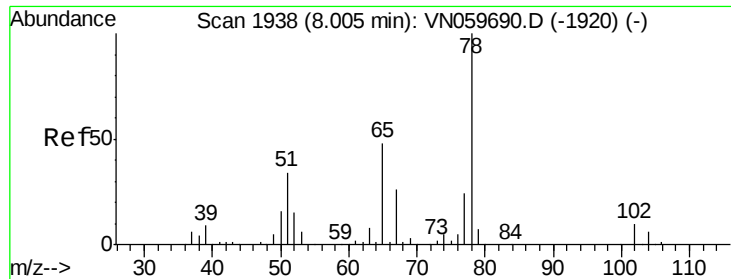
Ion Ratio Lower Upper

56 100

69 166.0 26.5 39.7#

84 123.0 65.3 97.9#

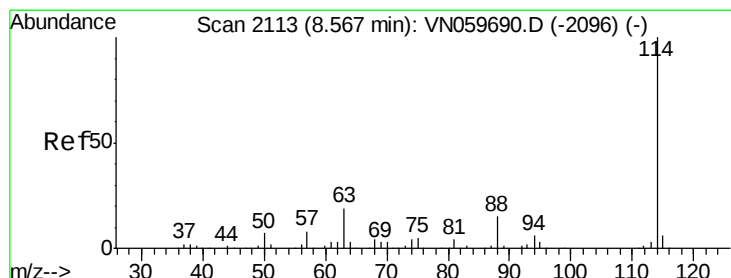
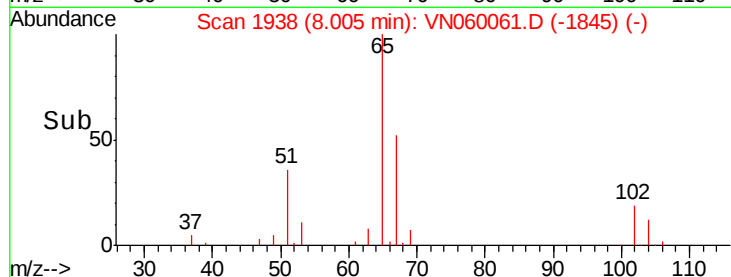
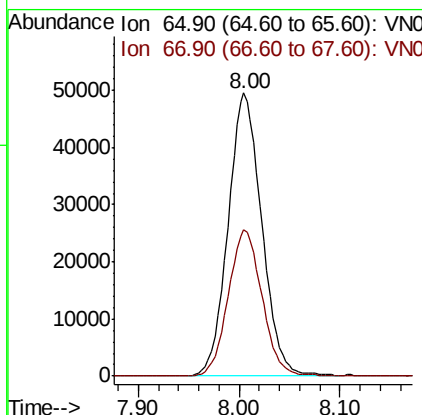
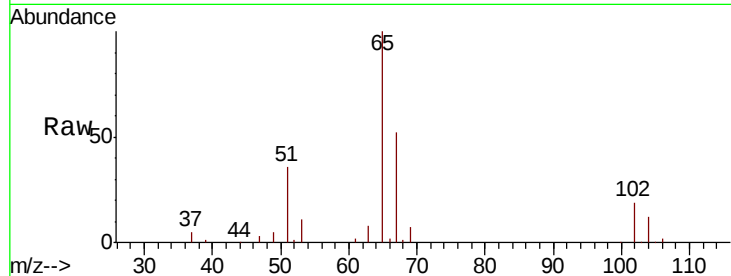




#33
 1,2-Dichloroethane-d4
 Concen: 52.087 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060061.D
 Acq: 11 Feb 2020 13:34

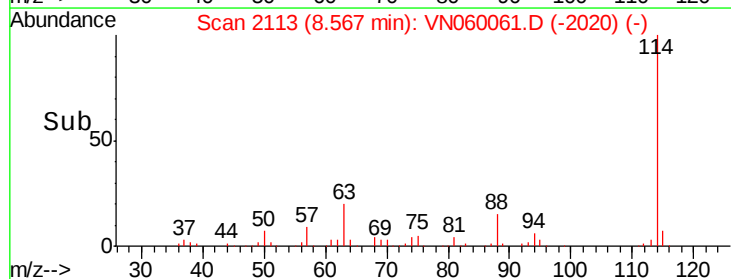
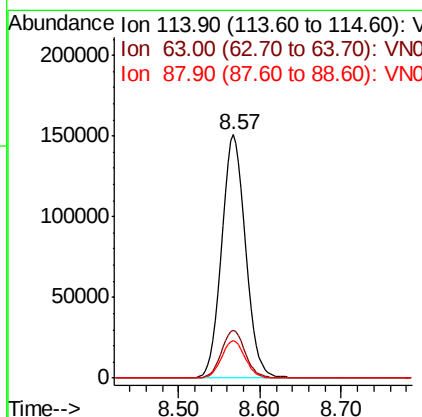
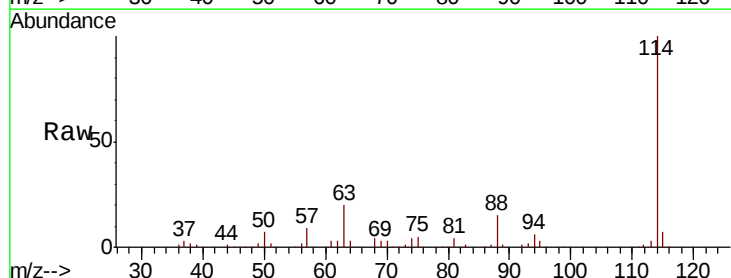
Instrument :
 MSVOA_N
 ClientSampleId :

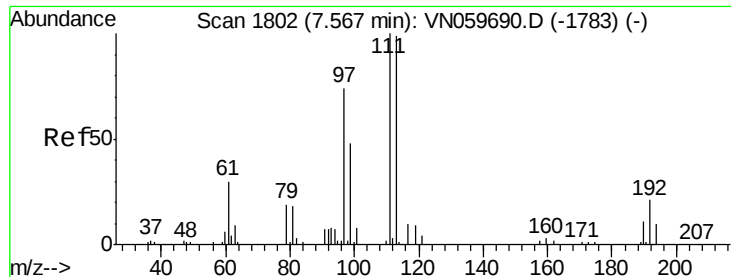
Tot Ion: 65 Resp: 115098
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060061.D
 Acq: 11 Feb 2020 13:34

Tgt Ion: 114 Resp: 313655
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 43.6
 88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.715 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

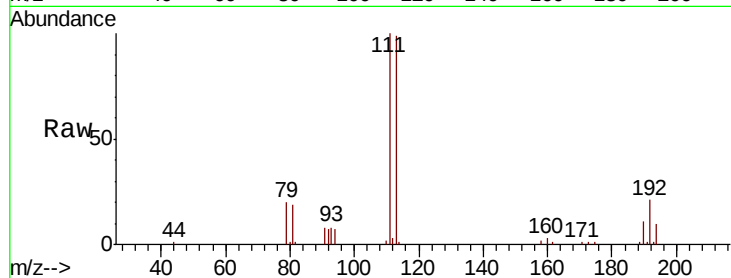
Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 94861

Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.5	125.3
192	20.6	15.4	23.2

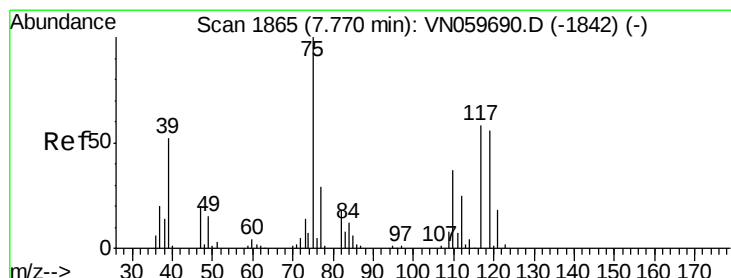
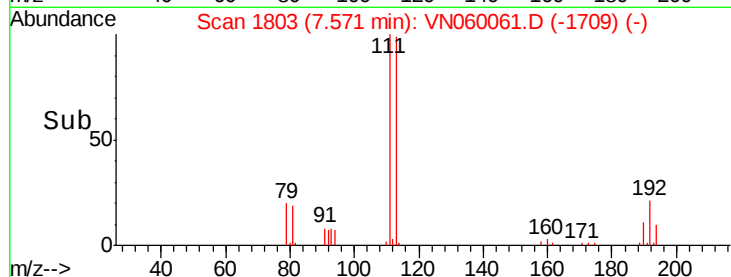
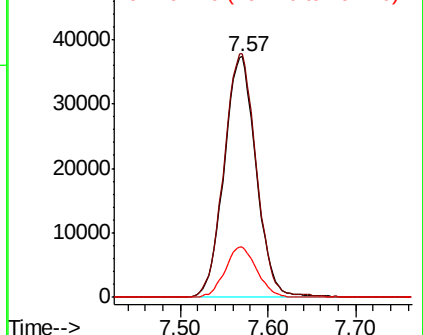


Abundance

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: 5.175 ug/l

RT: 7.64 min Scan# 1825

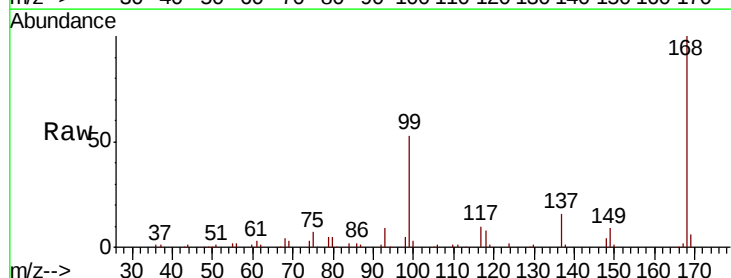
Delta R.T. -0.13 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Tgt Ion: 75 Resp: 14135

Ion	Ratio	Lower	Upper
75	100		
110	7.9	16.6	49.7#
77	0.0	25.1	37.7#

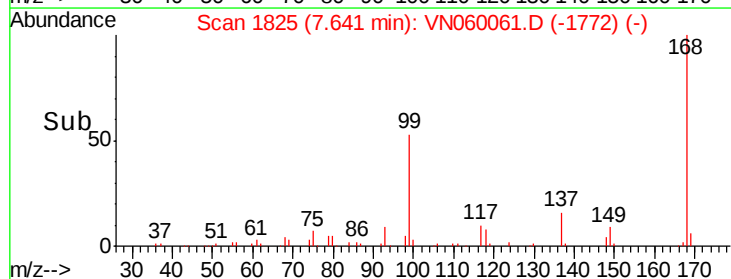
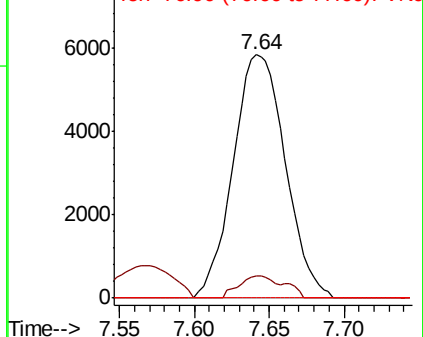


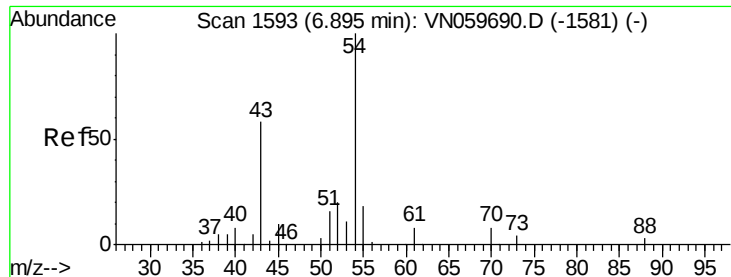
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

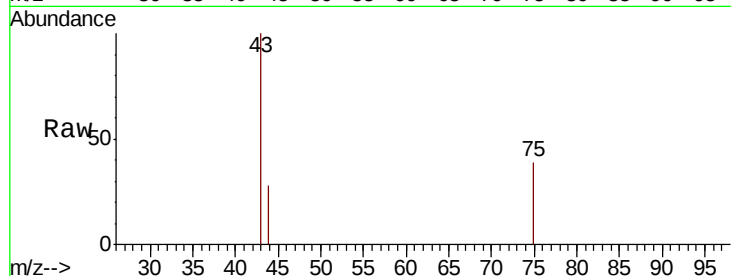




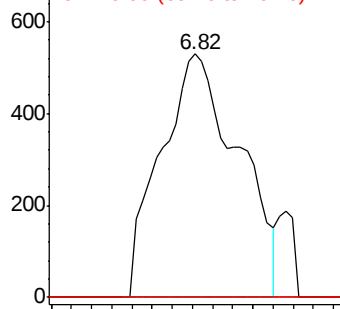
#37
Ethyl Acetate
Concen: 0.553 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.07 min
Lab File: VN060061.D
Acq: 11 Feb 2020 13:34

Instrument :
MSVOA_N
ClientSampleId :

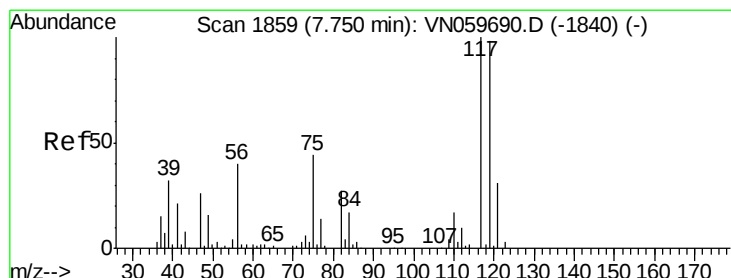
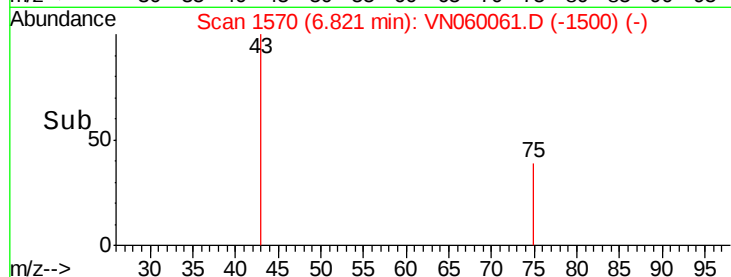
Tot Ion: 43 Resp: 1417
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

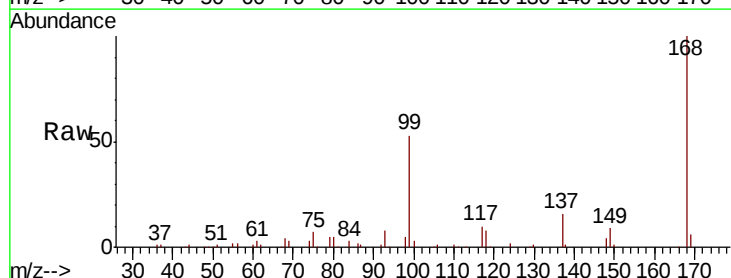


Time--> 6.75 6.80 6.85

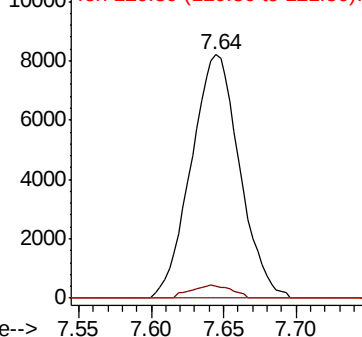


#38
Carbon Tetrachloride
Concen: 6.417 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060061.D
Acq: 11 Feb 2020 13:34

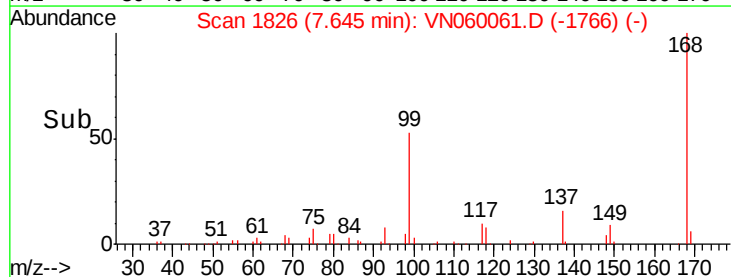
Tgt Ion: 117 Resp: 19066
Ion Ratio Lower Upper
117 100
119 4.9 76.5 114.7#
121 0.0 25.1 37.7#

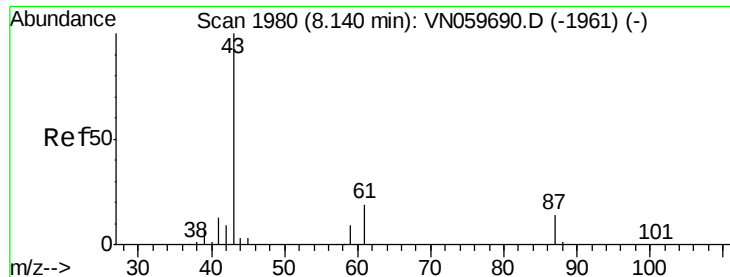


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



Time--> 7.55 7.60 7.65 7.70





#43

Isopropyl Acetate

Concen: 11.205 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

ClientSampled :

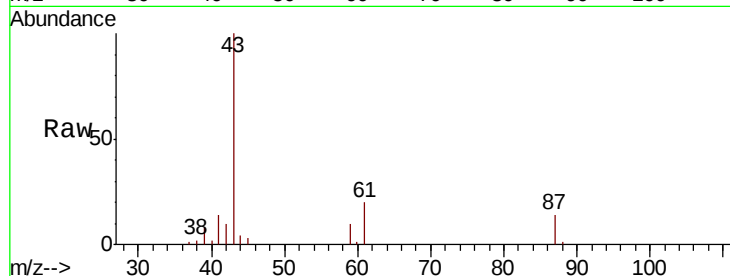
Tot Ion: 43 Resp: 49374

Ion Ratio Lower Upper

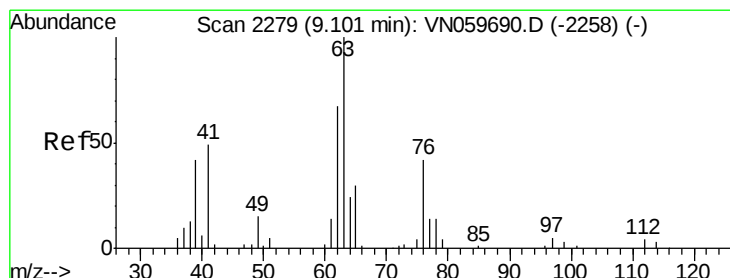
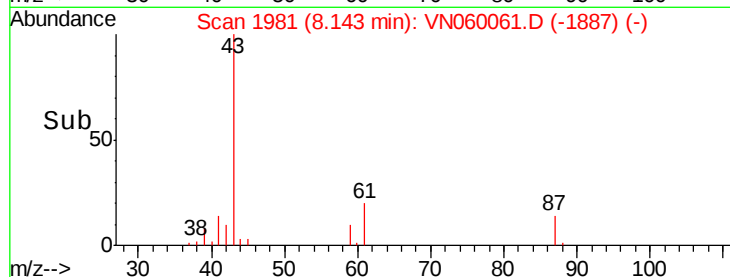
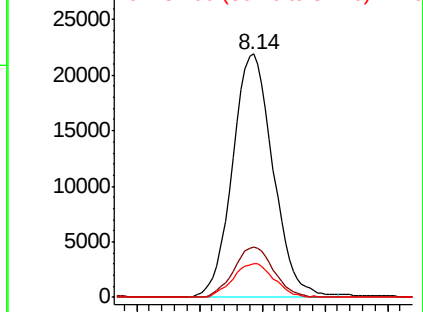
43 100

61 20.0 20.2 30.2#

87 13.9 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.533 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060061.D

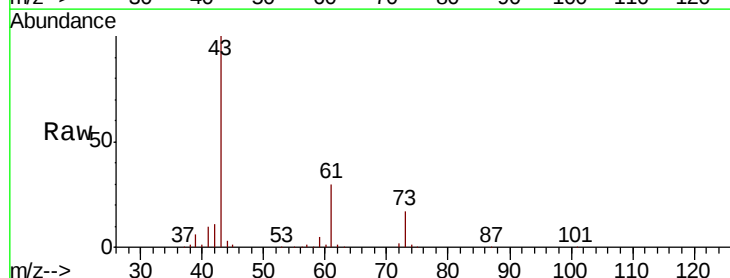
Acq: 11 Feb 2020 13:34

Tgt Ion: 63 Resp: 1075

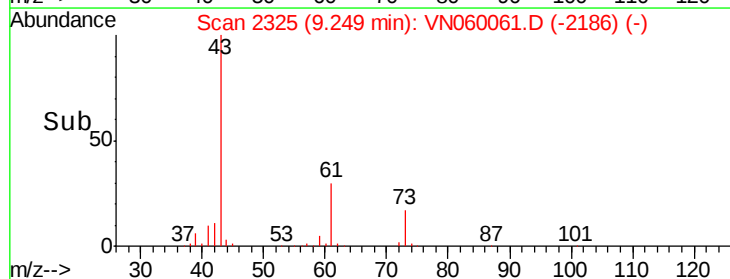
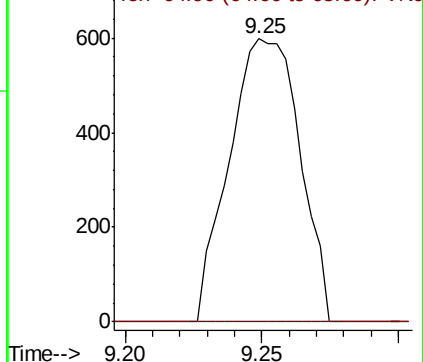
Ion Ratio Lower Upper

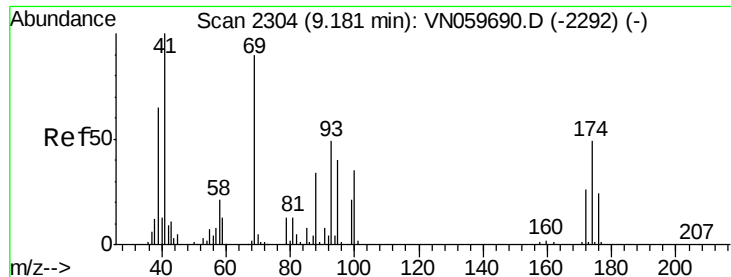
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

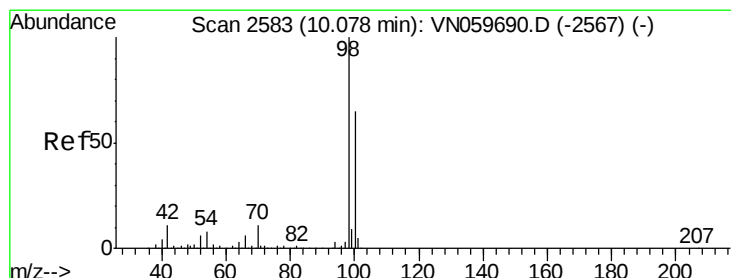
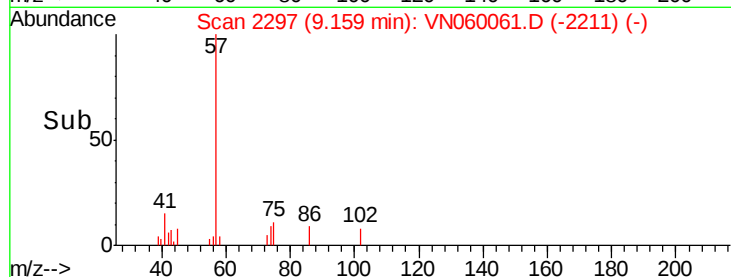
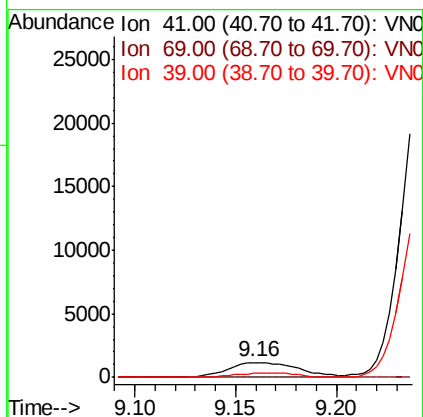
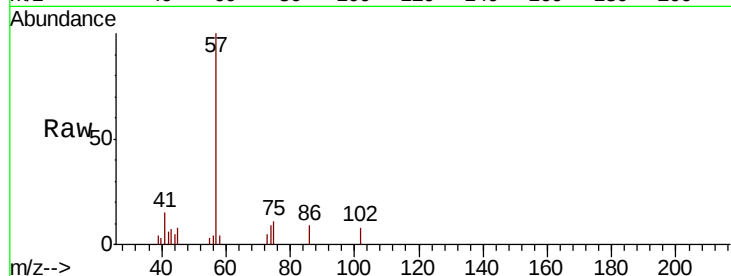




#48
Methvl methacrylate
Concen: 1.428 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060061.D
Acq: 11 Feb 2020 13:34

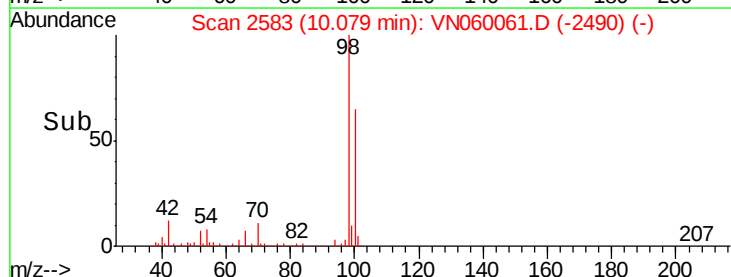
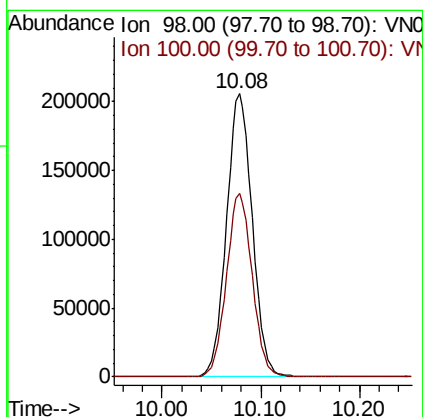
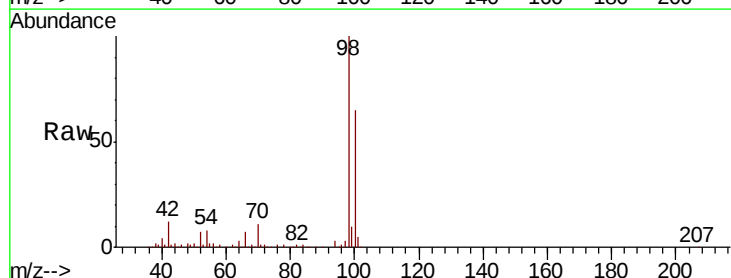
Instrument :
MSVOA_N
ClientSampled :

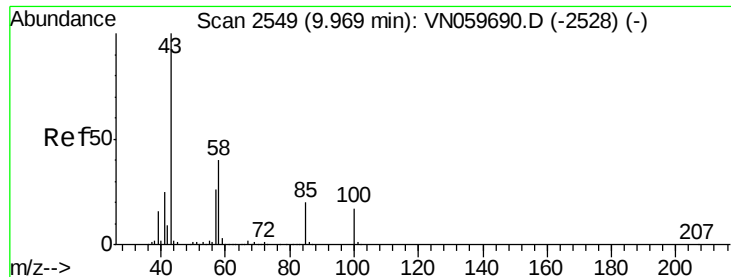
Tot Ion: 41 Resp: 2815
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.937 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060061.D
Acq: 11 Feb 2020 13:34

Tgt Ion: 98 Resp: 376392
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.266 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

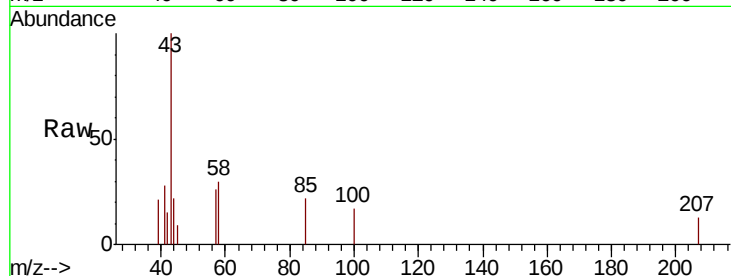
ClientSampled :

Tot Ion: 43 Resp: 3225

Ion Ratio Lower Upper

43 100

58 34.5 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000

1500

1000

500

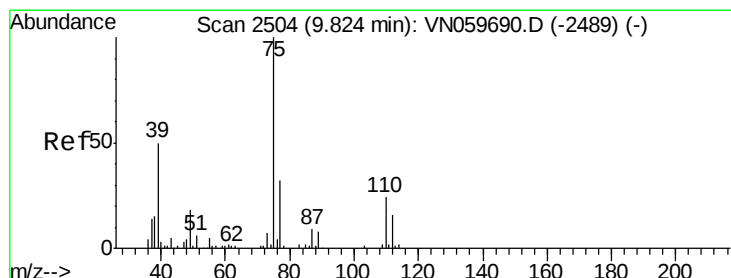
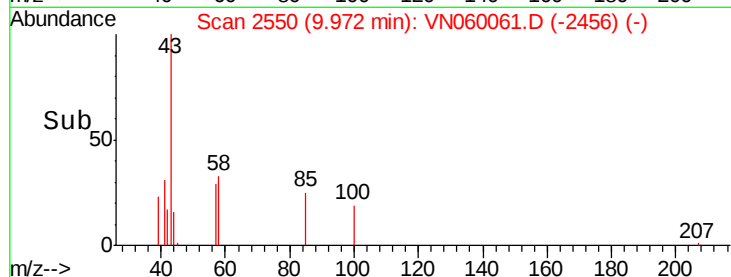
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.147 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

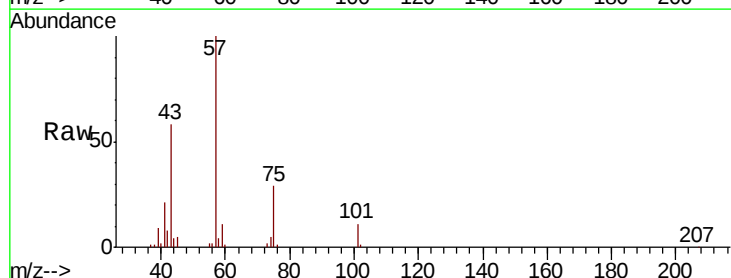
Tgt Ion: 75 Resp: 24059

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 32.2 46.1 69.1#



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

15000

10000

5000

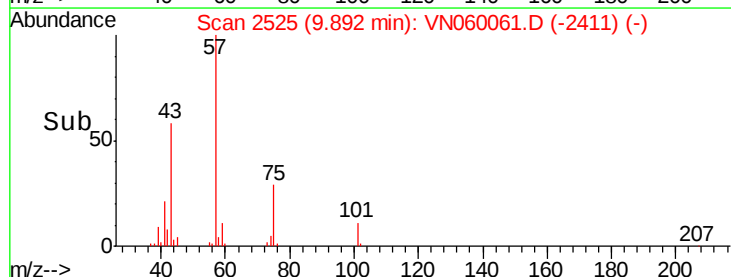
0

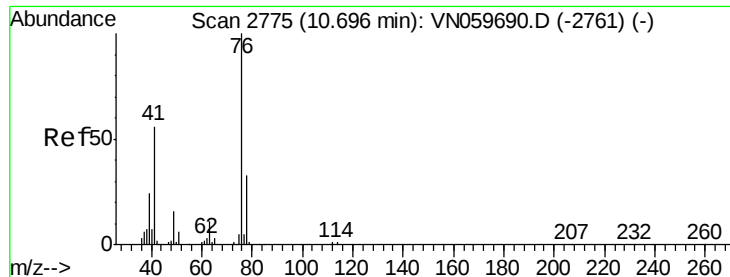
9.85

9.89

9.95

Time-->

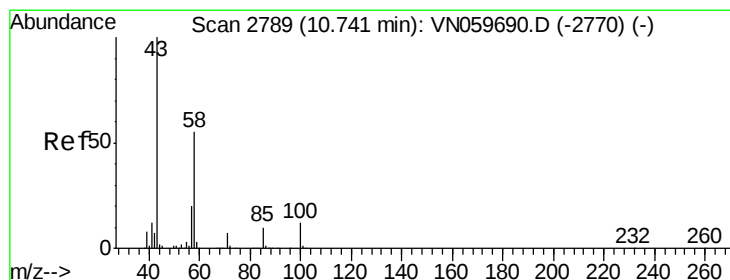
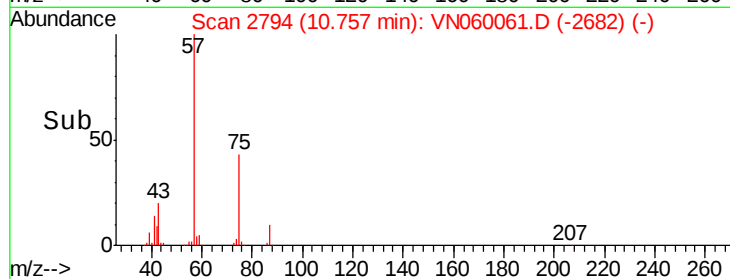
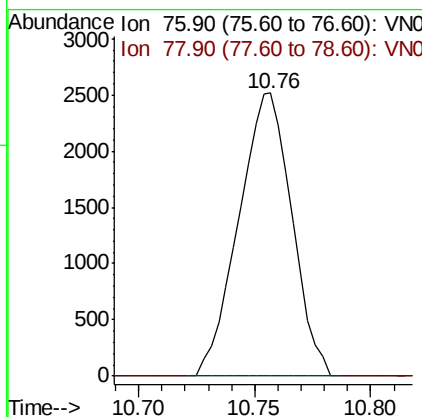
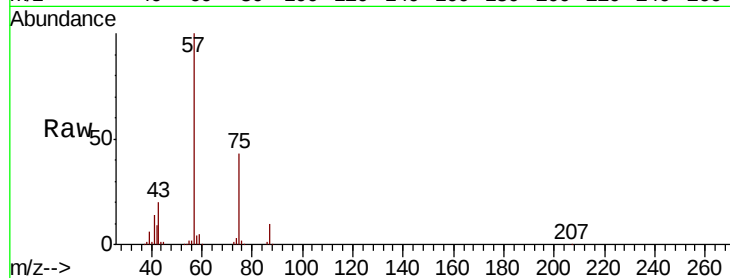




#57
 1,3-Dichloropropane
 Concen: 1.236 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN060061.D
 Acq: 11 Feb 2020 13:34

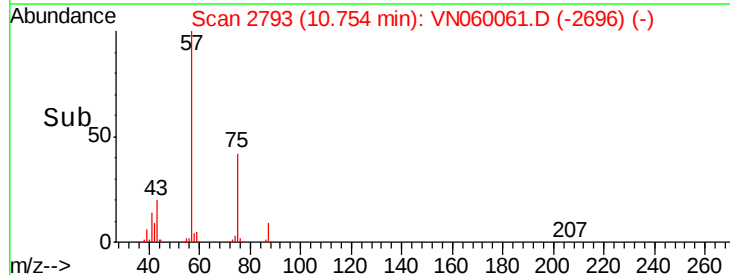
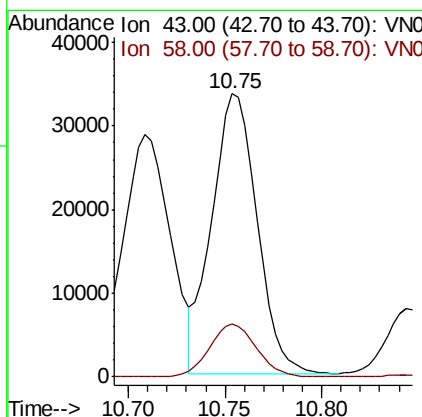
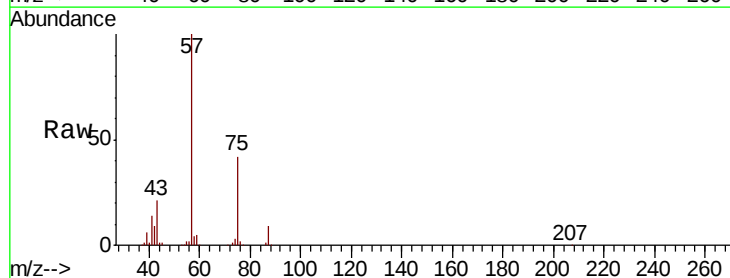
Instrument :
 MSVOA_N
 ClientSampled :

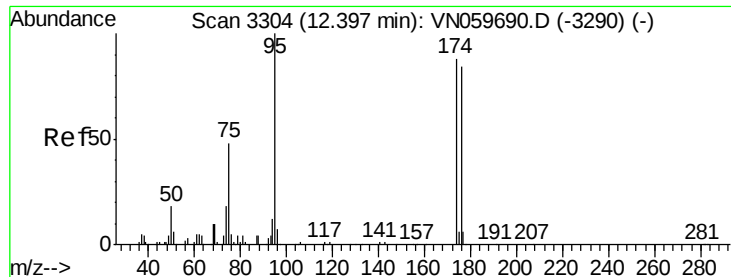
Tot Ion: 76 Resp: 3998
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 29.057 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060061.D
 Acq: 11 Feb 2020 13:34

Tgt Ion: 43 Resp: 54527
 Ion Ratio Lower Upper
 43 100
 58 19.5 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 52.052 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

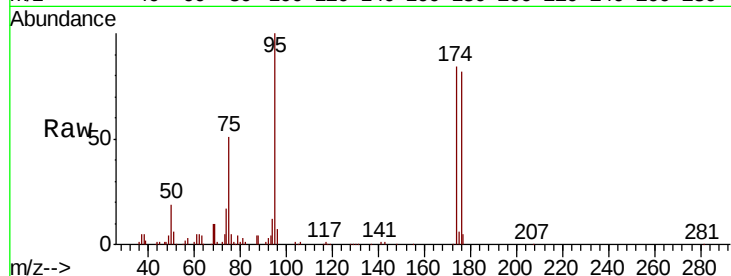
Tot Ion: 95 Resp: 135989

Ion Ratio Lower Upper

95 100

174 84.9 0.0 151.4

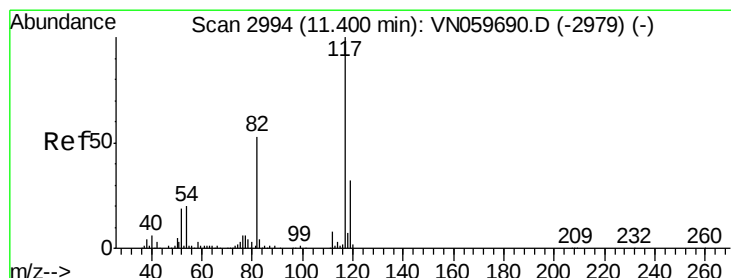
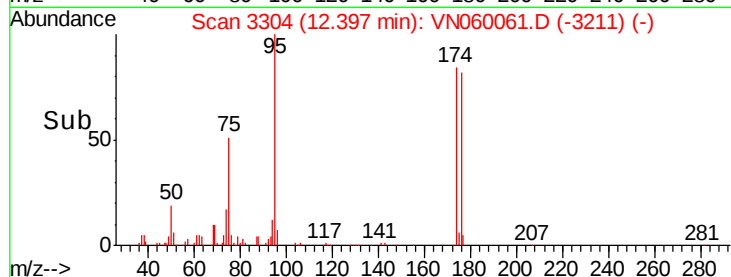
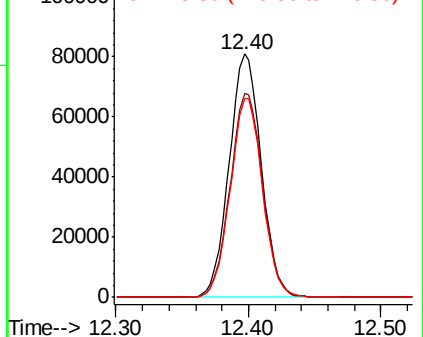
176 82.0 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

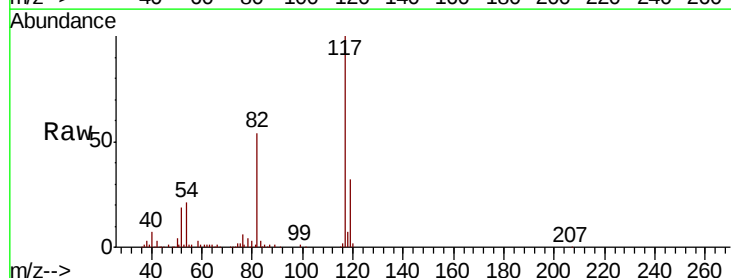
Tgt Ion: 117 Resp: 293325

Ion Ratio Lower Upper

117 100

82 54.4 45.9 68.9

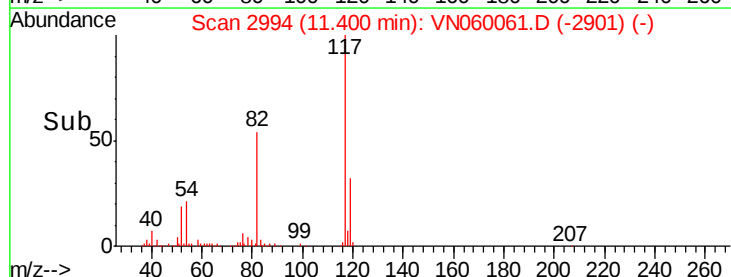
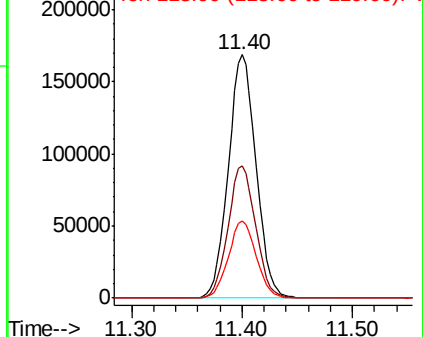
119 31.5 25.5 38.3

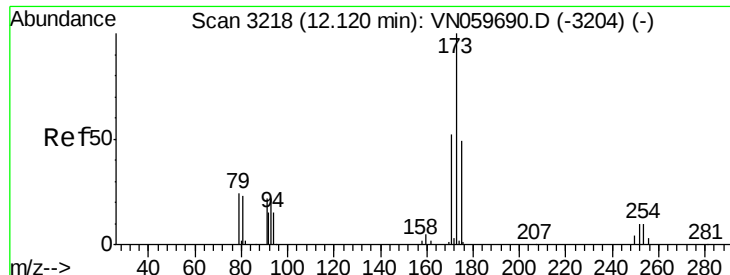


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.309 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

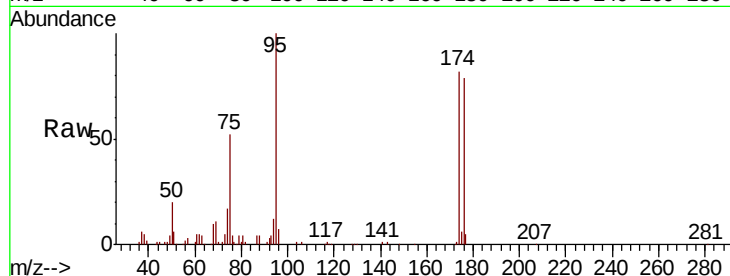
Tot Ion:173 Resp: 551

Ion Ratio Lower Upper

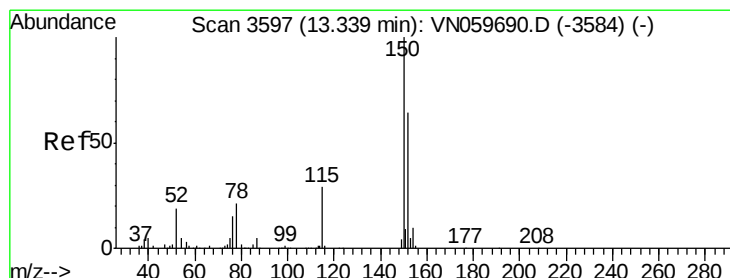
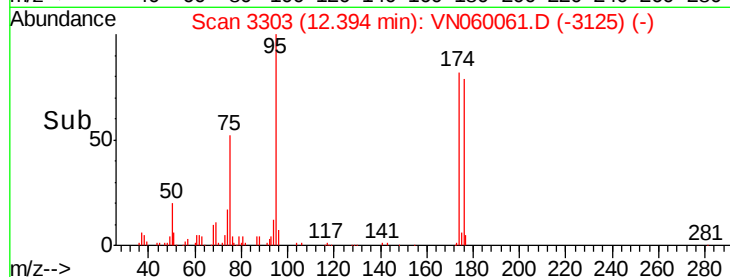
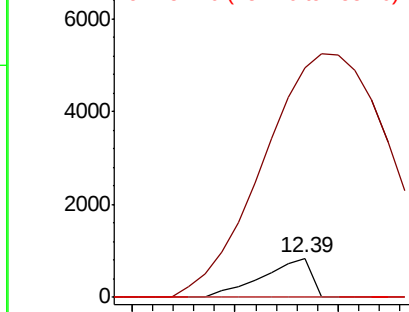
173 100

175 1334.5 23.8 71.4#

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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

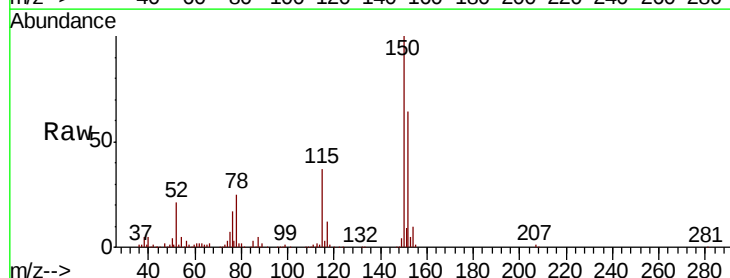
Tgt Ion:152 Resp: 130964

Ion Ratio Lower Upper

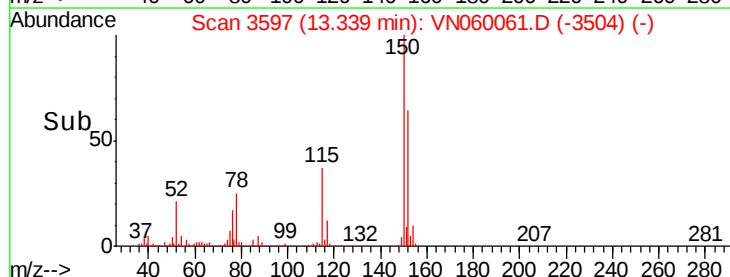
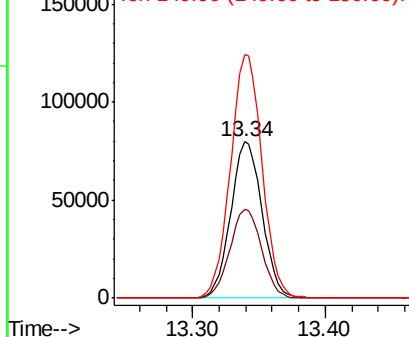
152 100

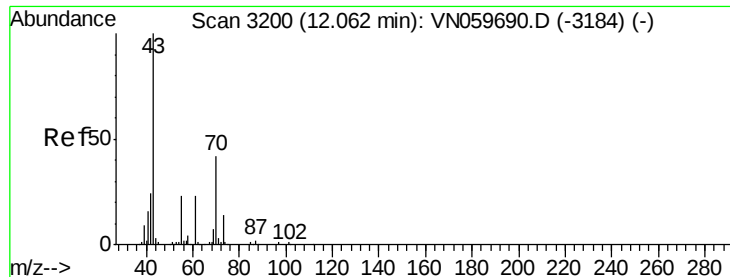
115 57.7 30.3 90.9

150 156.8 0.0 345.2



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-amvl acetate

Concen: 0.728 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2714

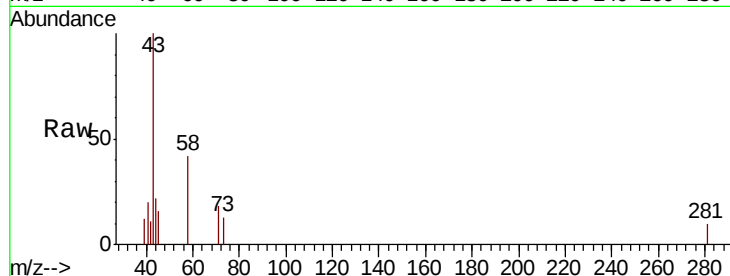
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

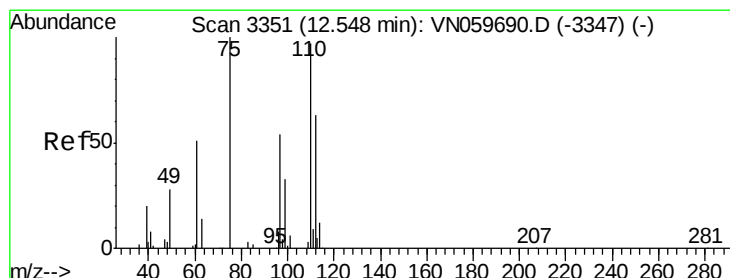
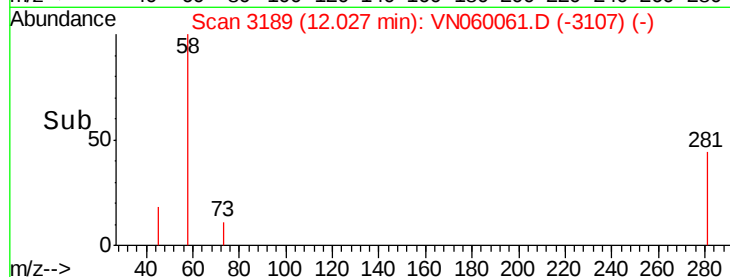
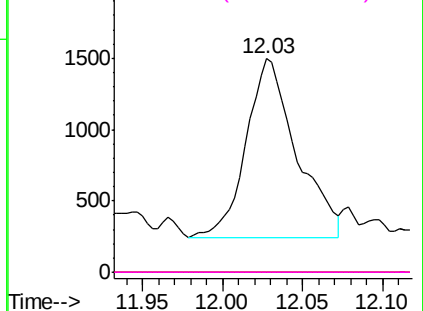


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 32.005 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060061.D

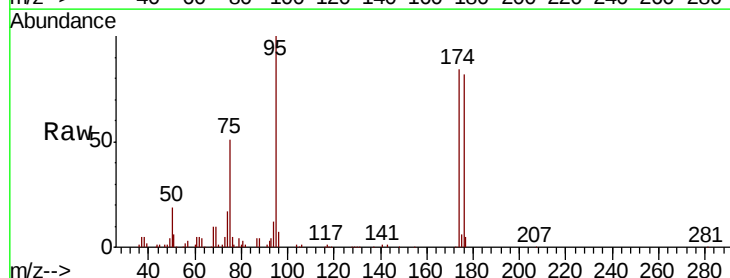
Acq: 11 Feb 2020 13:34

Tgt Ion: 75 Resp: 70539

Ion Ratio Lower Upper

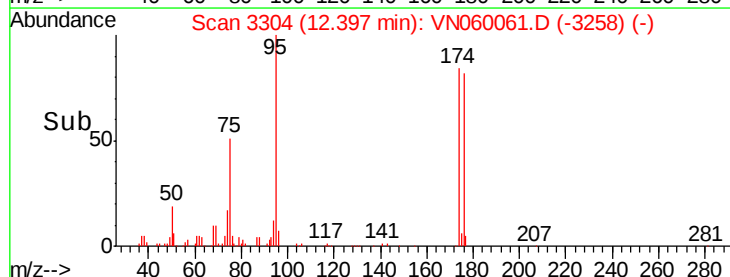
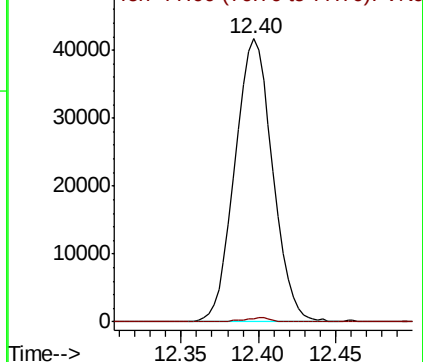
75 100

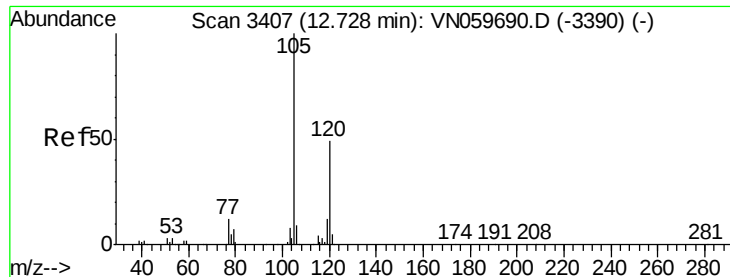
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.242 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

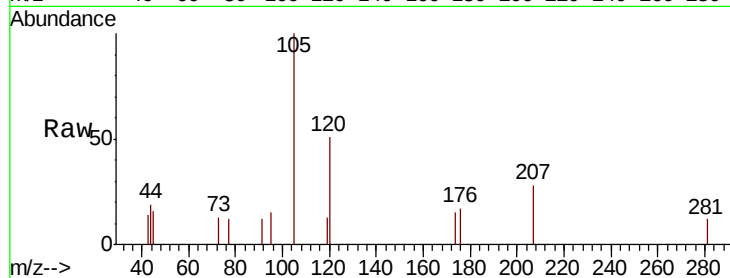
ClientSampled :

Tot Ion: 105 Resp: 1953

Ion Ratio Lower Upper

105 100

120 50.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

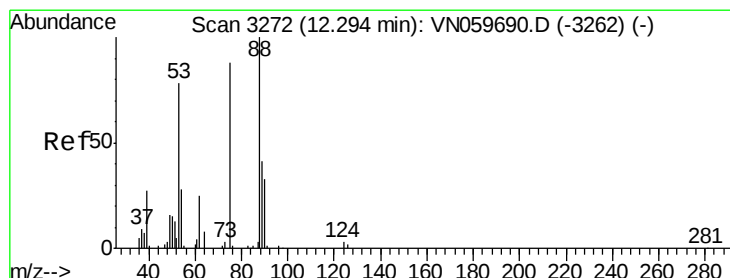
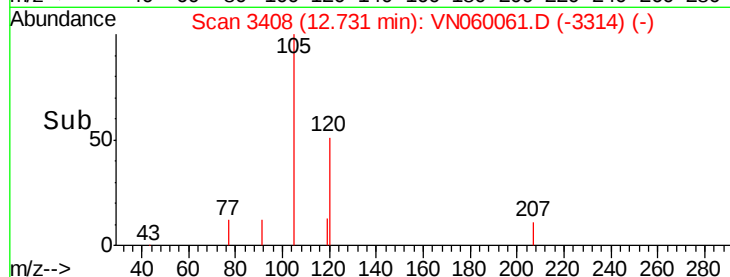
1000

500

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 68.731 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

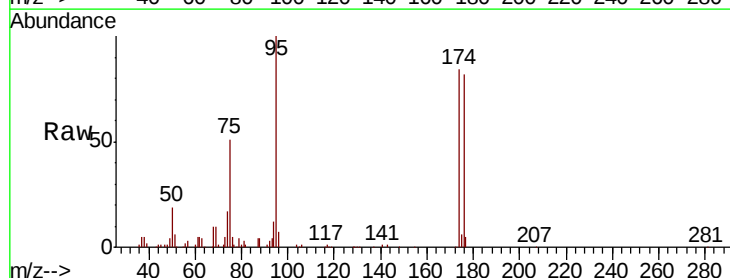
Tgt Ion: 75 Resp: 70539

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



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

50000

40000

30000

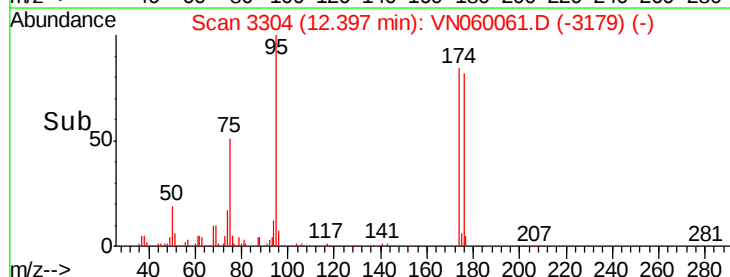
20000

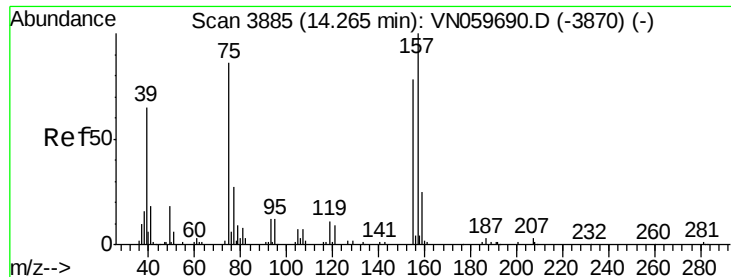
10000

0

Time-->

12.35 12.40 12.45





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN060061.D

Acq: 11 Feb 2020 13:34

Instrument :

MSVOA_N

ClientSampleId :

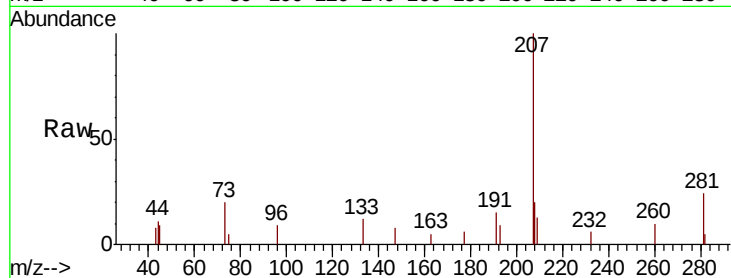
Tot Ion: 75 Resp: 121

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

