

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060620.D
 Acq On : 19 Mar 2020 2:59
 Operator : JC/MD
 Sample : L1954-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11A

Quant Time: Mar 19 05:08:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	203495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	337957	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	318482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	146196	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	132099	47.29	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.58%	
35) Dibromofluoromethane	7.57	113	100362	49.11	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.22%	
50) Toluene-d8	10.08	98	418351	50.12	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.39	95	158763	51.90	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.80%	

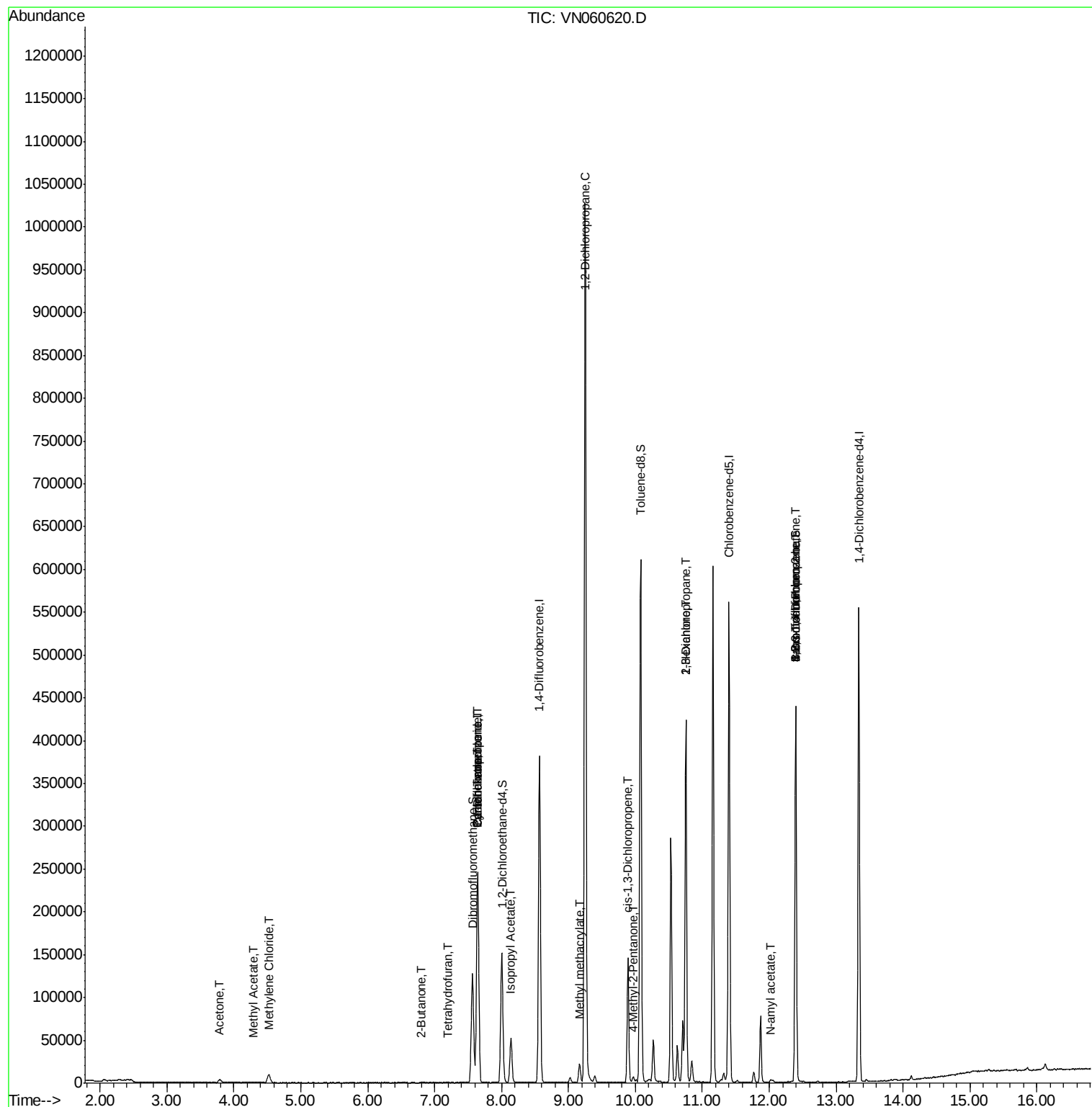
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6835	6.907	ug/l	100
18) Methyl Acetate	4.29	43	688	0.247	ug/l #	54
20) Methylene Chloride	4.52	84	7628	3.134	ug/l	90
25) 2-Butanone	6.81	43	595	0.372	ug/l #	50
29) Tetrahydrofuran	7.19	42	305	0.269	ug/l #	35
31) Cyclohexane	7.64	56	4162	0.925	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15484	4.732	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19156	6.531	ug/l #	17
43) Isopropyl Acetate	8.14	43	62081	10.646	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1235	0.474	ug/l #	43
48) Methyl methacrylate	9.16	41	3115	1.200	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5015	1.511	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	26032	6.308	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4088	1.026	ug/l #	42
59) 2-Hexanone	10.75	43	62918	26.321	ug/l #	51
71) Bromoform	12.39	173	290	1.828	ug/l #	1
74) N-amyl acetate	12.02	43	3288	0.649	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	79447	25.184	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	79447	64.681	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

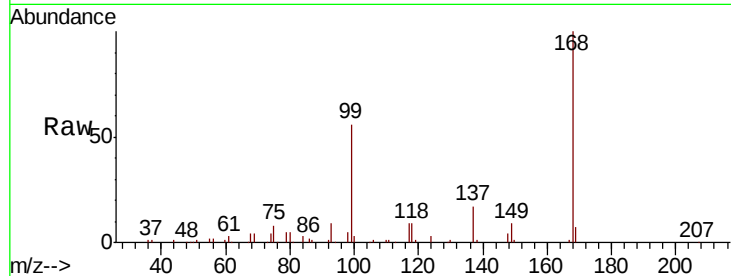
TP-11A

Tot Ion:168 Resp: 203495

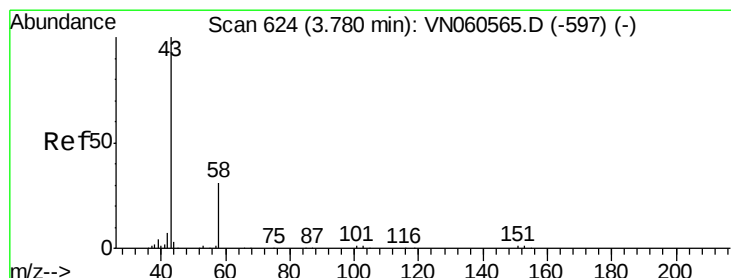
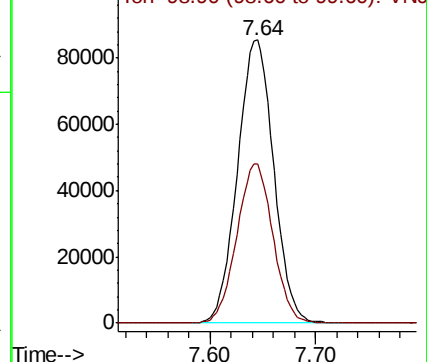
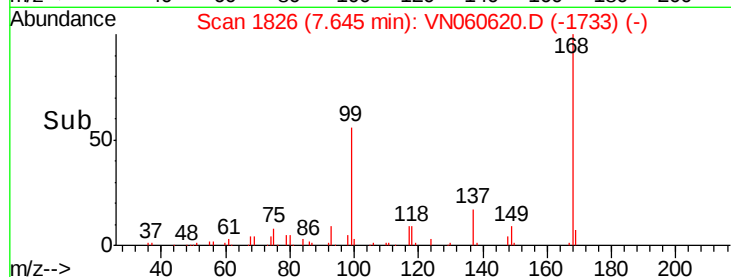
Ion Ratio Lower Upper

168 100

99 56.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060620.D (-1733) (-)



#16

Acetone

Concen: 6.907 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060620.D

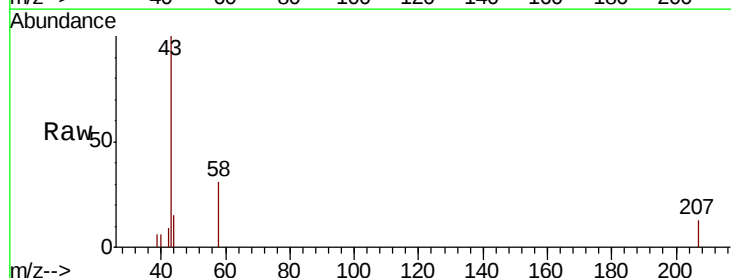
Acq: 19 Mar 2020 2:59

Tgt Ion: 43 Resp: 6835

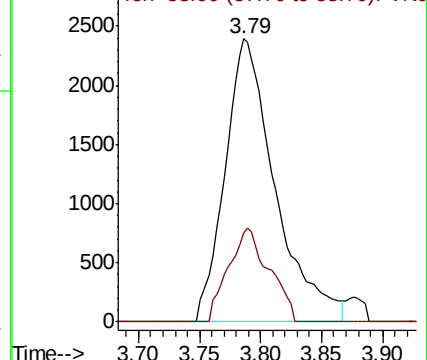
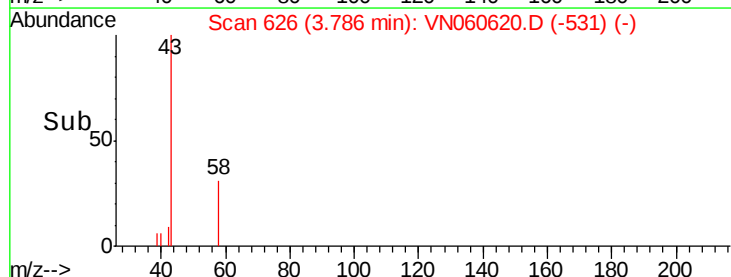
Ion Ratio Lower Upper

43 100

58 31.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060620.D (-531) (-)

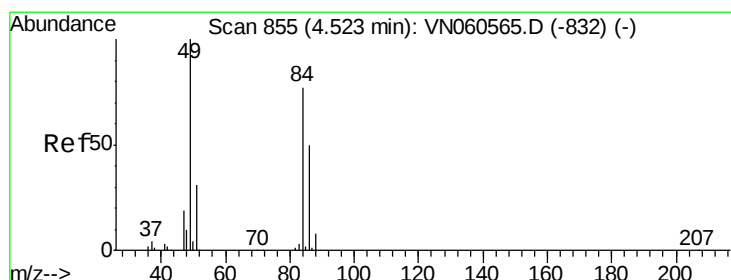
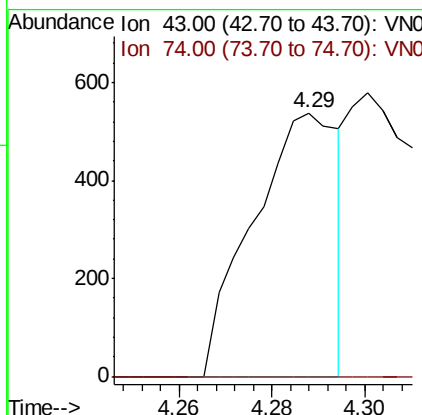
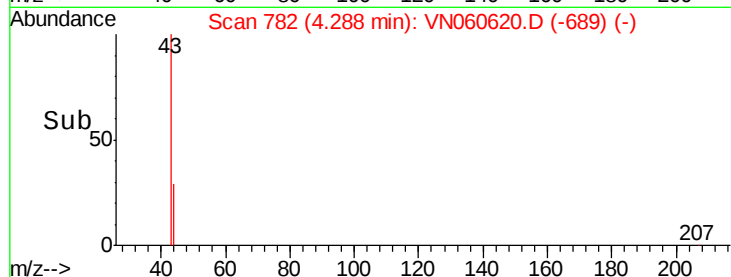
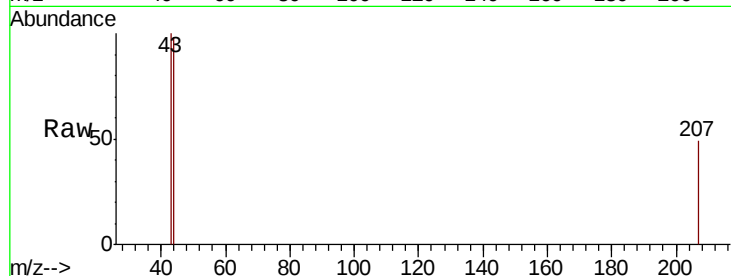




#18
Methyl Acetate
Concen: 0.247 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

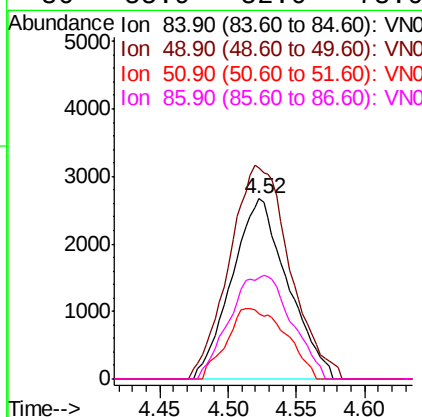
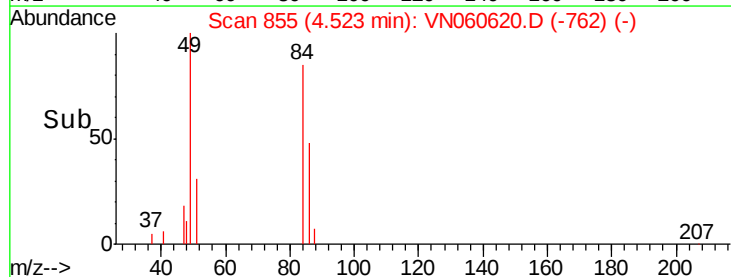
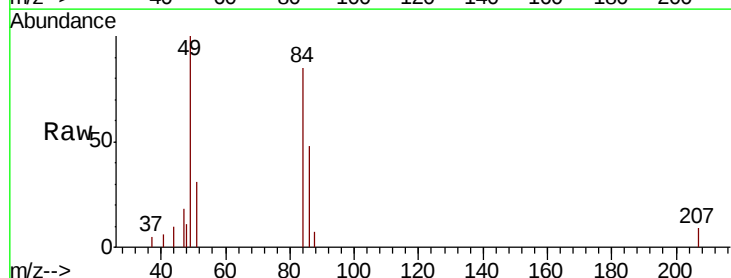
Instrument :
MSVOA_N
ClientSampled :
TP-11A

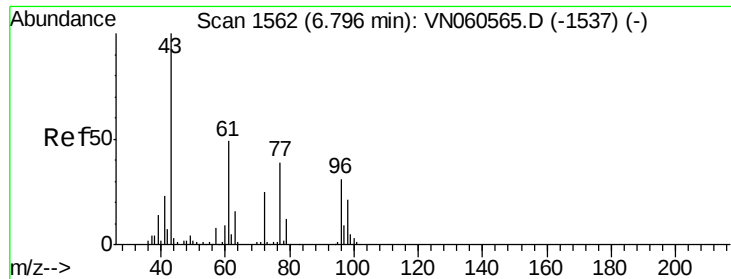
Tot Ion: 43 Resp: 688
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.134 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

Tgt Ion: 84 Resp: 7628
Ion Ratio Lower Upper
84 100
49 117.0 103.3 154.9
51 36.2 31.6 47.4
86 55.9 52.0 78.0





#25

2-Butanone

Concen: 0.372 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

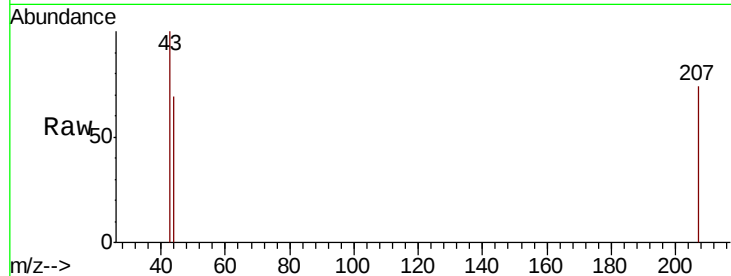
TP-11A

Tot Ion: 43 Resp: 595

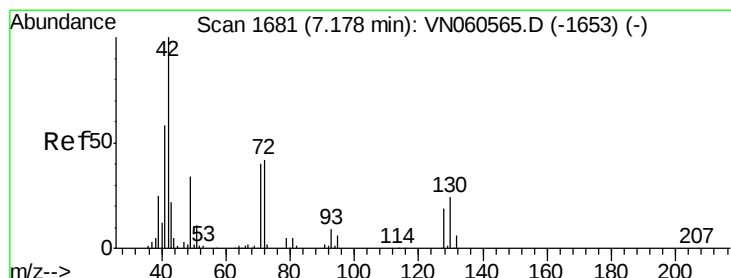
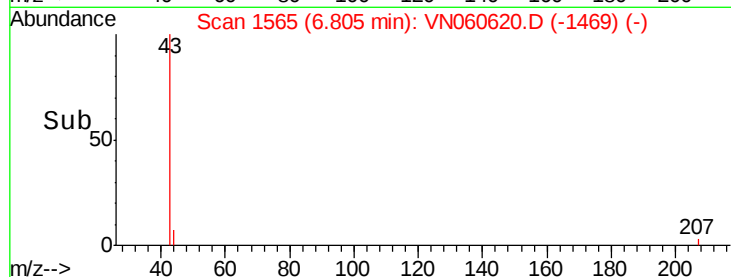
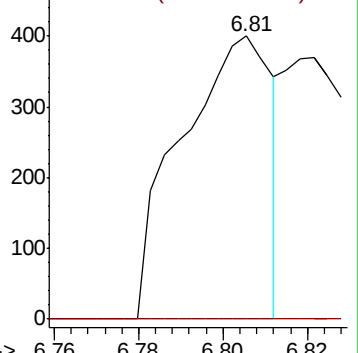
Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060620.D (-1537) (-)



#29

Tetrahydrofuran

Concen: 0.269 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.02 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

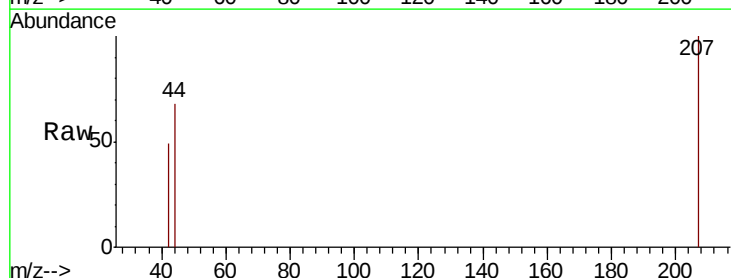
Tgt Ion: 42 Resp: 305

Ion Ratio Lower Upper

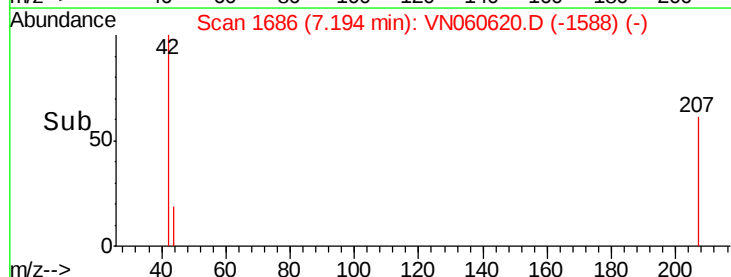
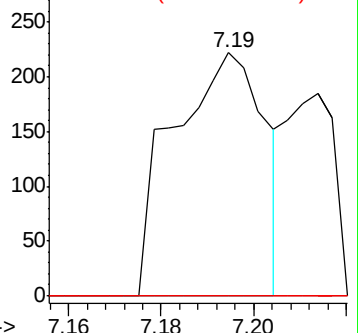
42 100

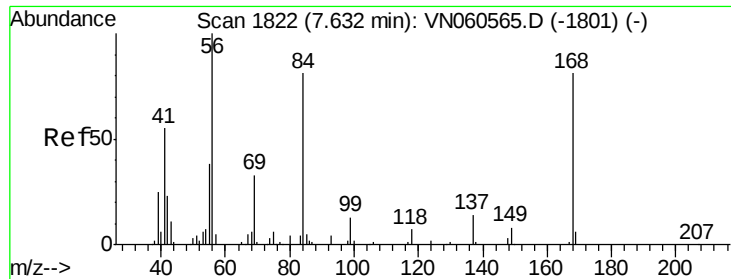
72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN060620.D (-1653) (-)

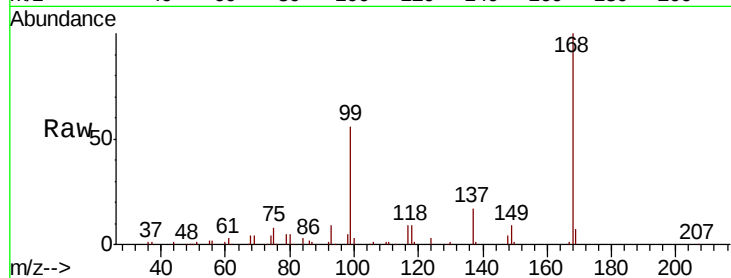




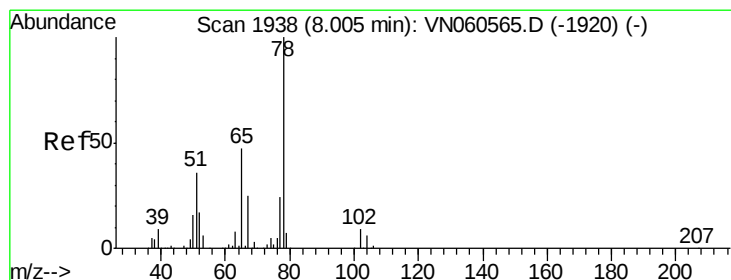
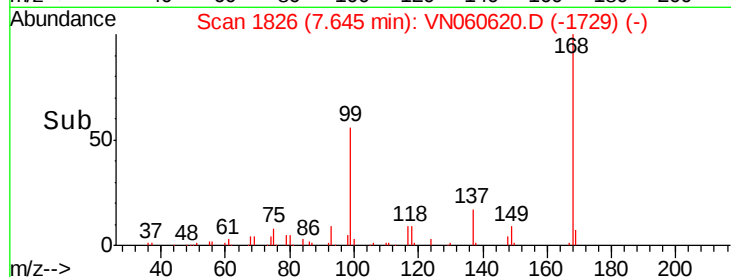
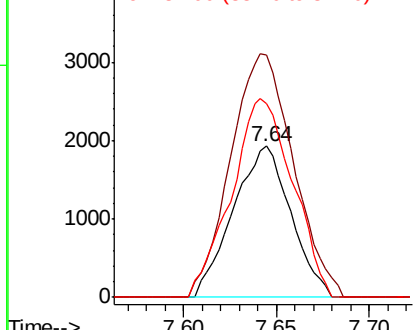
#31
Cyclohexane
Concen: 0.925 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

Instrument :
MSVOA_N
ClientSampled :
TP-11A

Tot Ion: 56 Resp: 4162
Ion Ratio Lower Upper
56 100
69 160.1 26.6 40.0#
84 128.5 64.3 96.5#

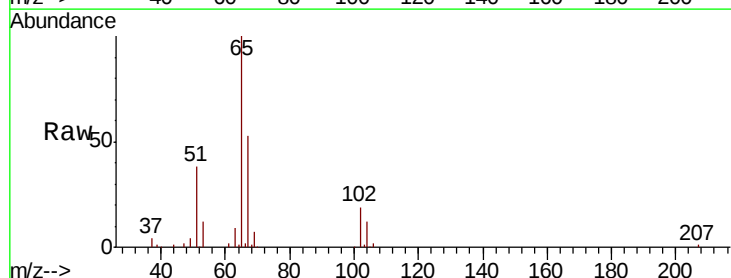


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

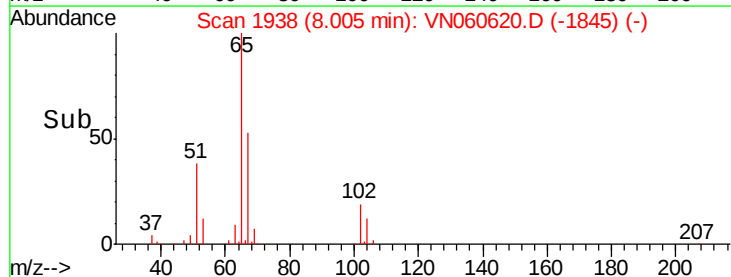
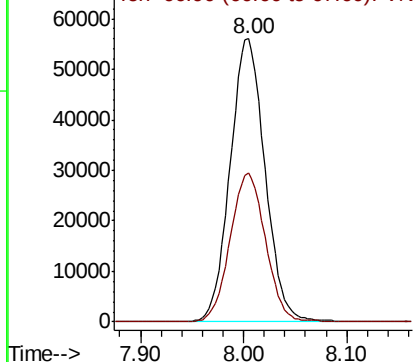


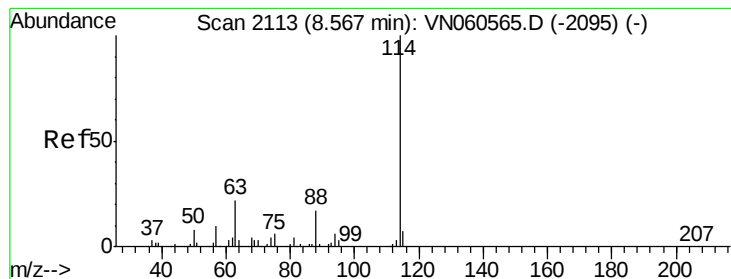
#33
1,2-Dichloroethane-d4
Concen: 47.288 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

Tgt Ion: 65 Resp: 132099
Ion Ratio Lower Upper
65 100
67 53.3 0.0 107.6



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: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

TP-11A

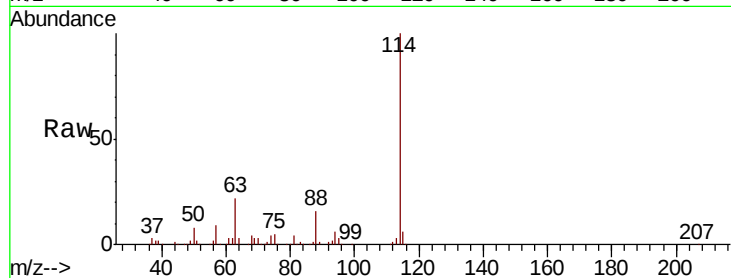
Tot Ion:114 Resp: 337957

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.8

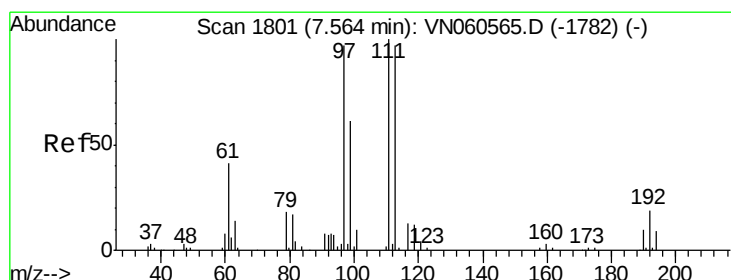
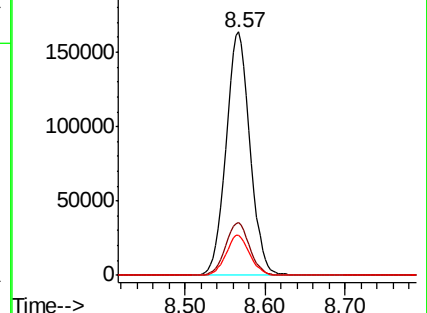
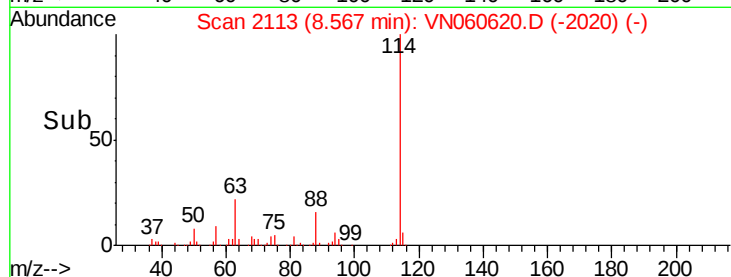
88 16.4 0.0 33.0



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: 49.112 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

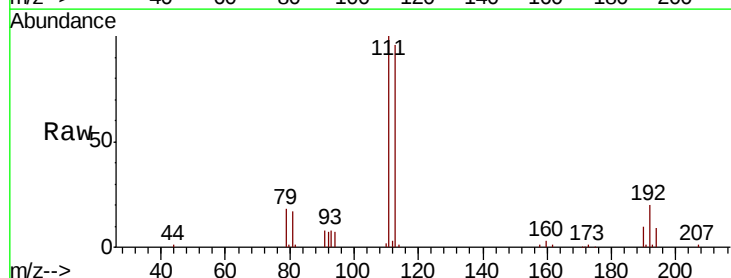
Tgt Ion:113 Resp: 100362

Ion Ratio Lower Upper

113 100

111 102.7 82.9 124.3

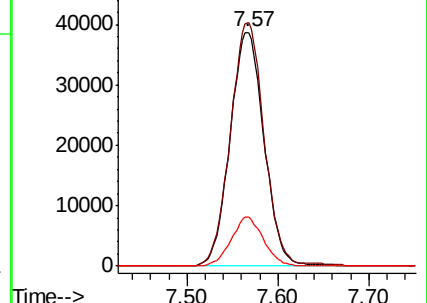
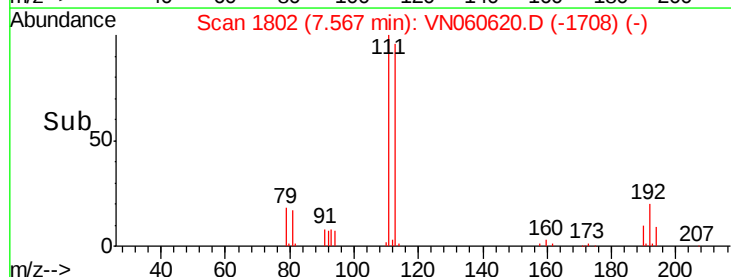
192 19.9 15.8 23.8

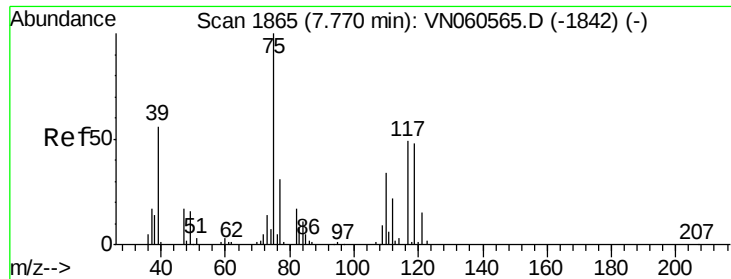


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

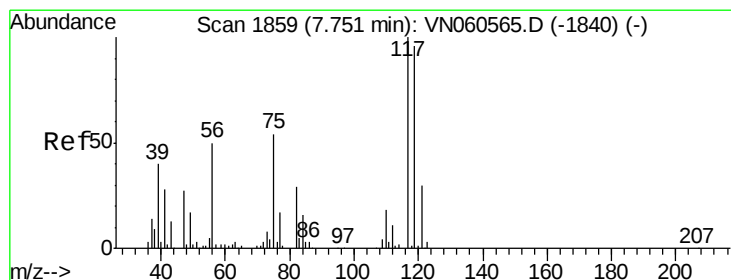
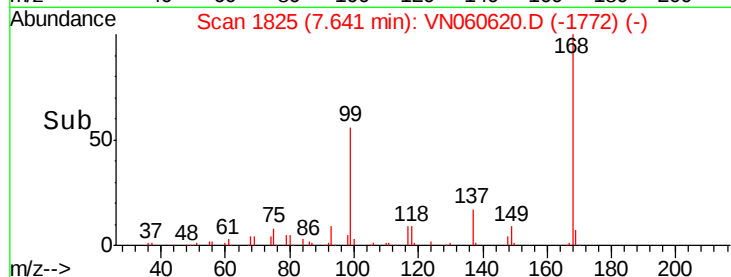
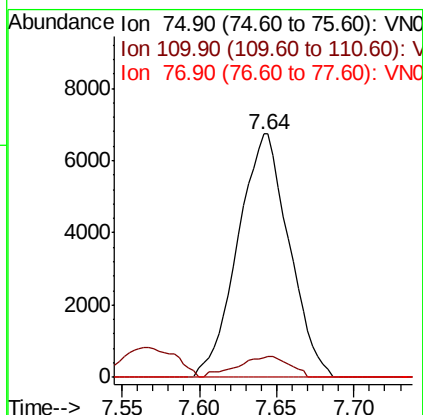
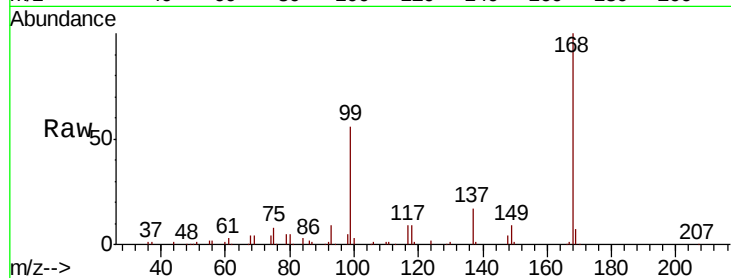




#36
 1,1-Dichloropropene
 Concen: 4.732 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060620.D
 Acq: 19 Mar 2020 2:59

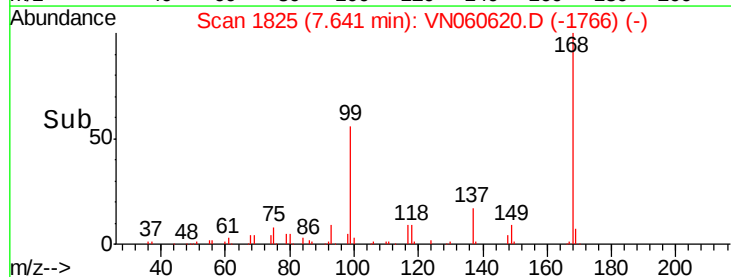
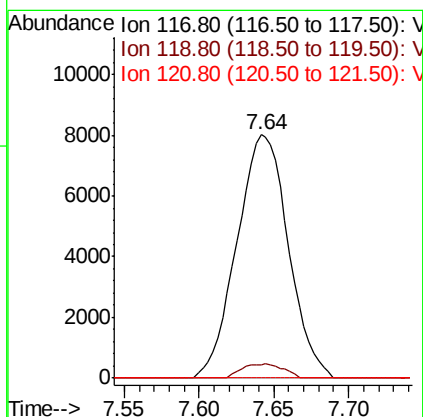
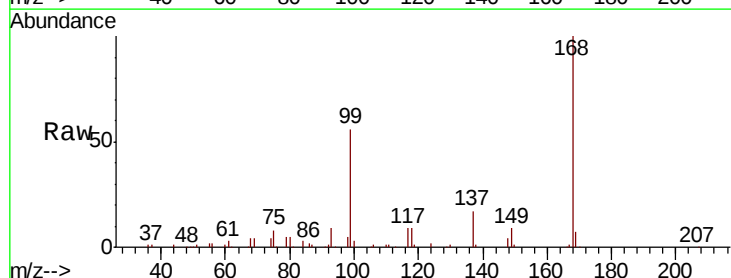
Instrument :
 MSVOA_N
 ClientSampled :
 TP-11A

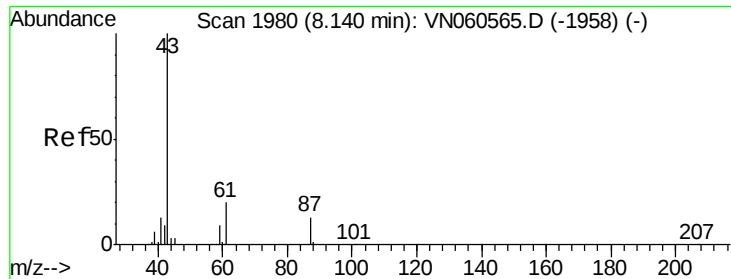
Tot Ion: 75 Resp: 15484
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.9 50.6#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.531 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060620.D
 Acq: 19 Mar 2020 2:59

Tgt Ion: 117 Resp: 19156
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.2 114.2#
 121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.646 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampled :

TP-11A

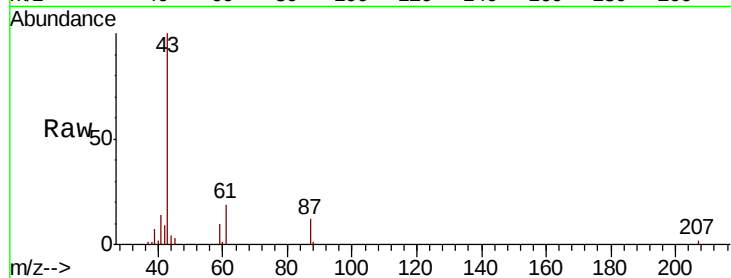
Tot Ion: 43 Resp: 62081

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

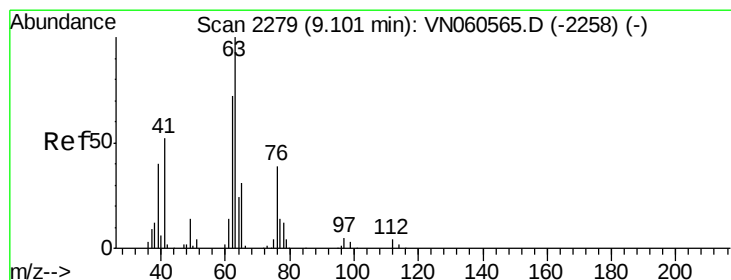
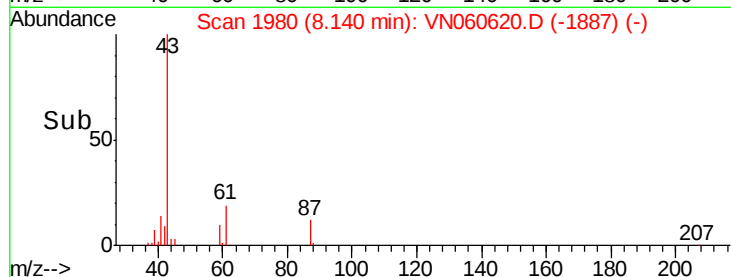
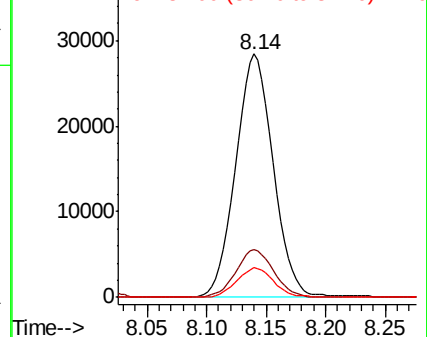
87 11.8 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060620.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060620.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060620.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.474 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060620.D

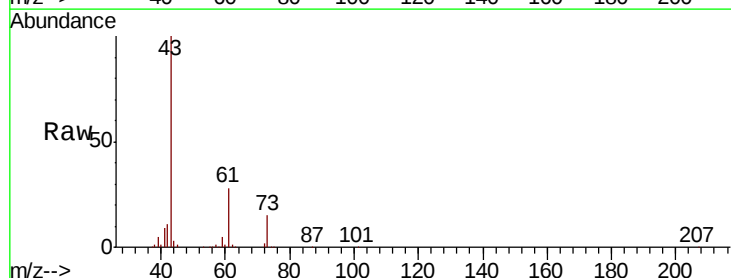
Acq: 19 Mar 2020 2:59

Tgt Ion: 63 Resp: 1235

Ion Ratio Lower Upper

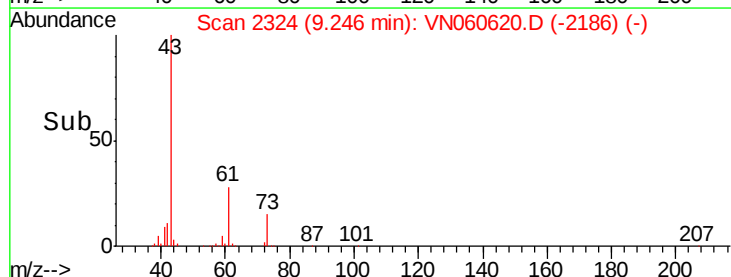
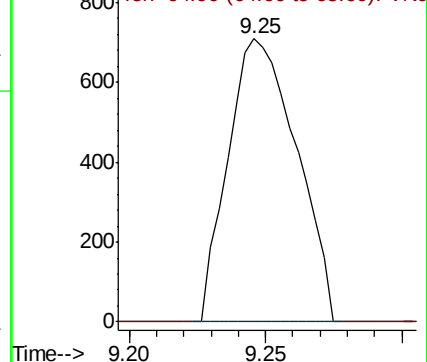
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060620.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060620.D (-2186) (-)

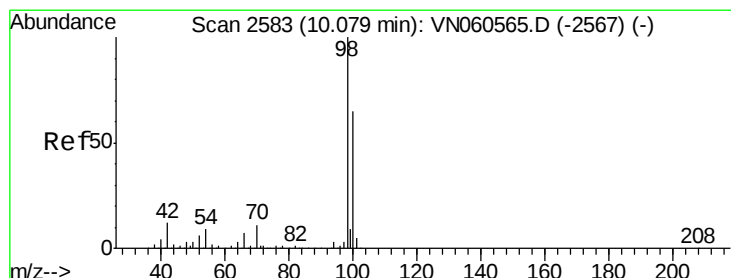
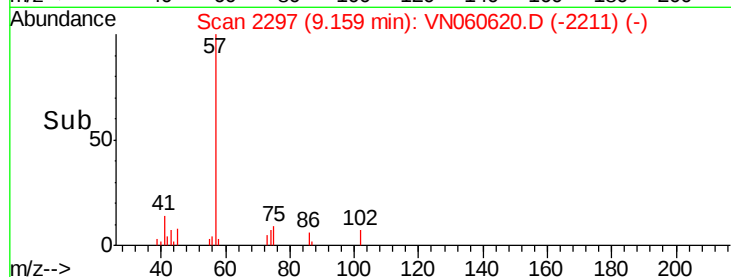
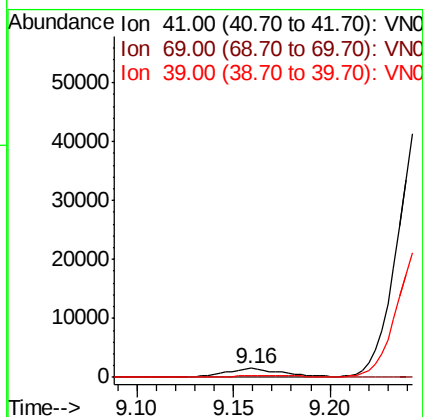
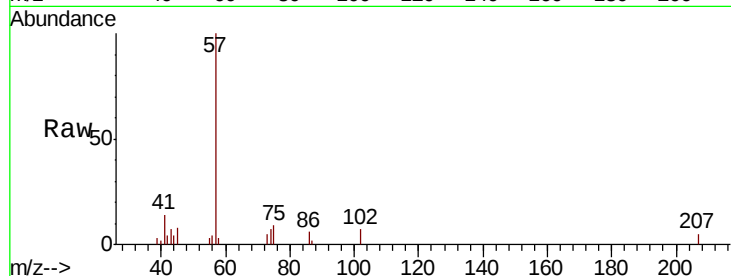




#48
Methvl methacrylate
Concen: 1.200 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

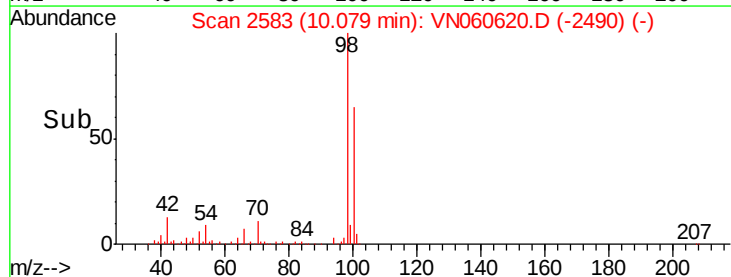
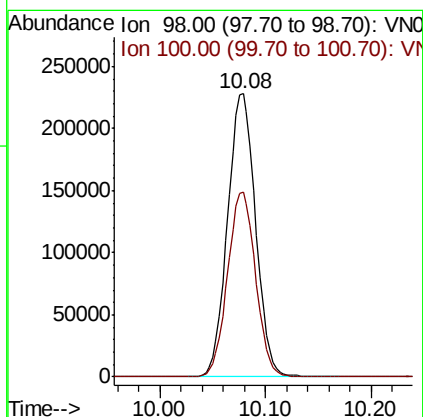
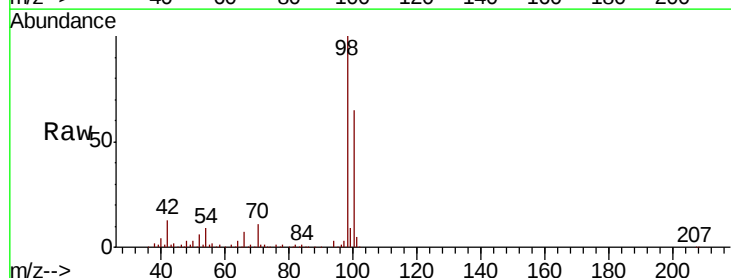
Instrument :
MSVOA_N
ClientSampled :
TP-11A

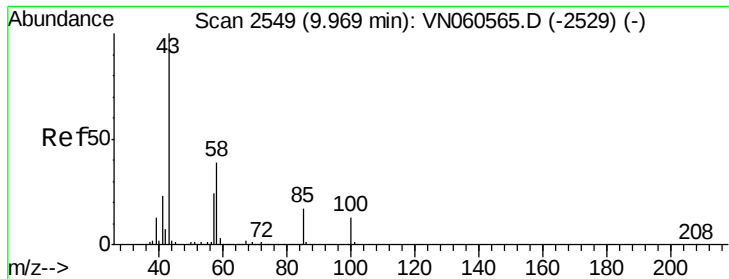
Tot Ion: 41 Resp: 3115
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.120 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060620.D
Acq: 19 Mar 2020 2:59

Tgt Ion: 98 Resp: 418351
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.511 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

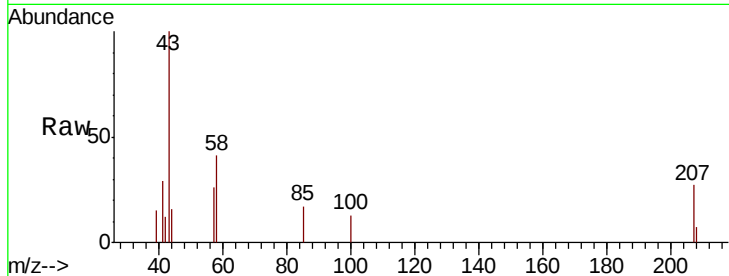
TP-11A

Tot Ion: 43 Resp: 5015

Ion Ratio Lower Upper

43 100

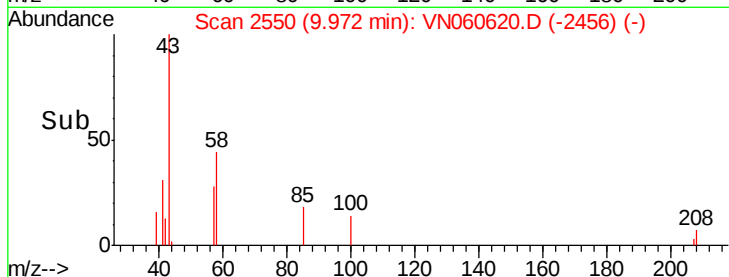
58 32.0 30.8 46.2



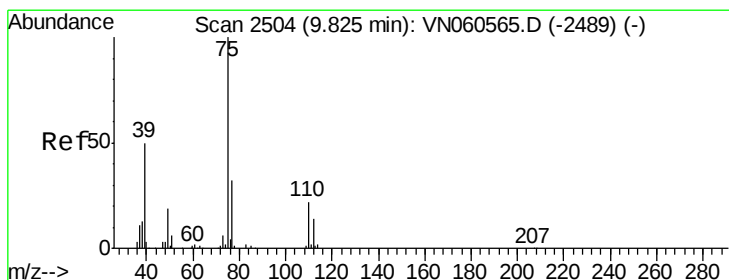
Abundance Ion 43.00 (42.70 to 43.70): VN060620.D (-2550) (-)

Ion 58.00 (57.70 to 58.70): VN060620.D (-2550) (-)

Time-->



Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.308 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

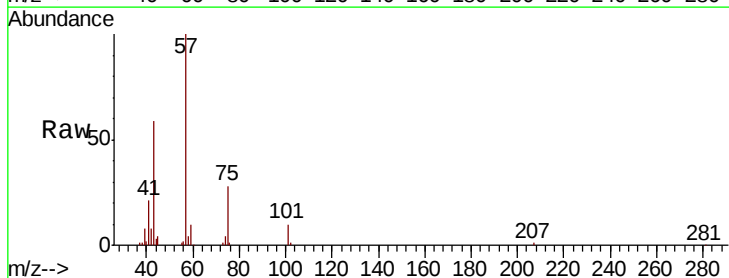
Tgt Ion: 75 Resp: 26032

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 29.7 40.2 60.4#

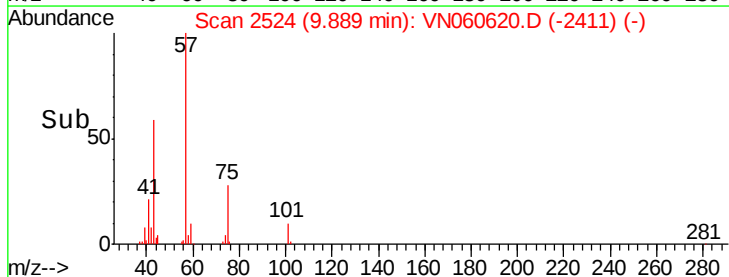


Abundance Ion 74.90 (74.60 to 75.60): VN060620.D (-2524) (-)

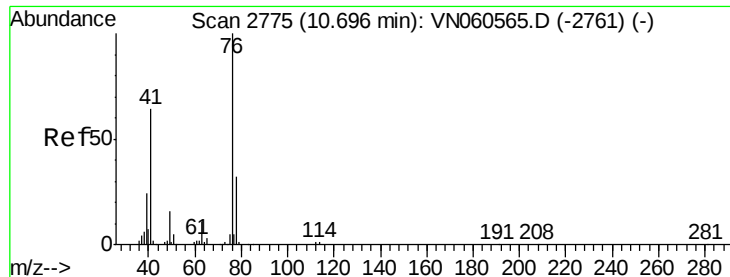
Ion 76.90 (76.60 to 77.60): VN060620.D (-2524) (-)

Ion 39.00 (38.70 to 39.70): VN060620.D (-2524) (-)

Time-->



Time-->



#57

1,3-Dichloropropane

Concen: 1.026 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampled :

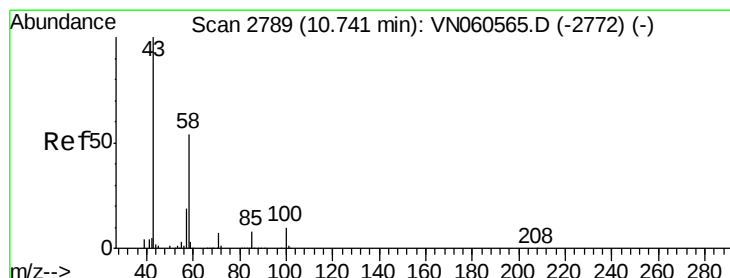
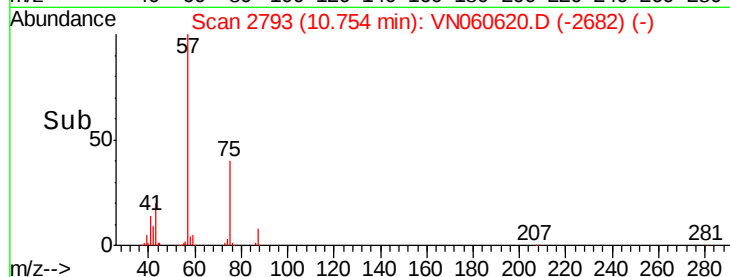
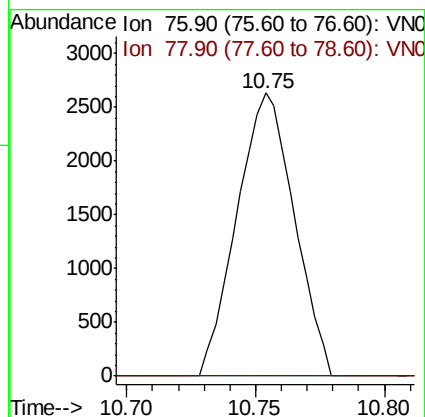
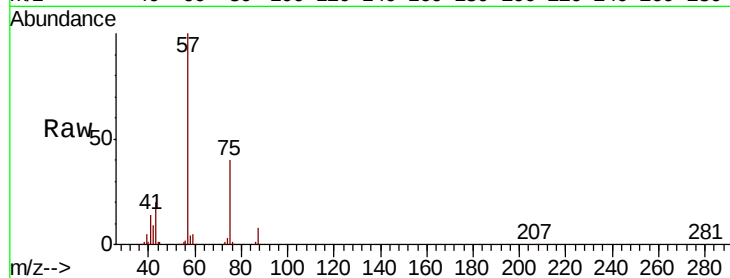
TP-11A

Tot Ion: 76 Resp: 4088

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 26.321 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060620.D

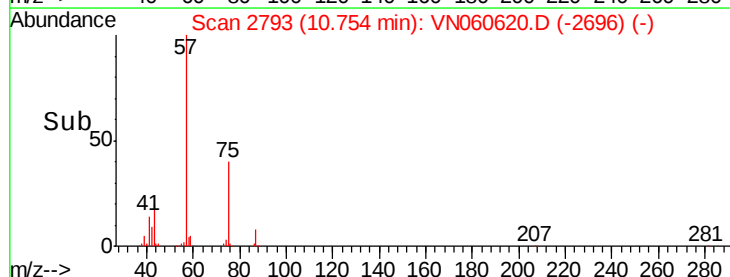
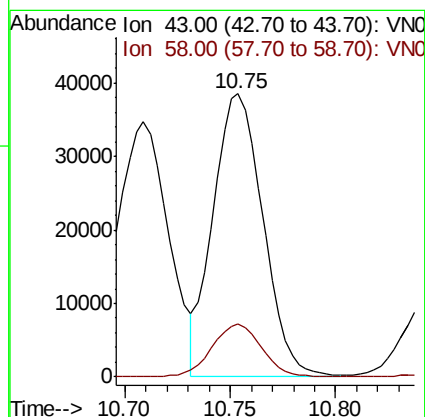
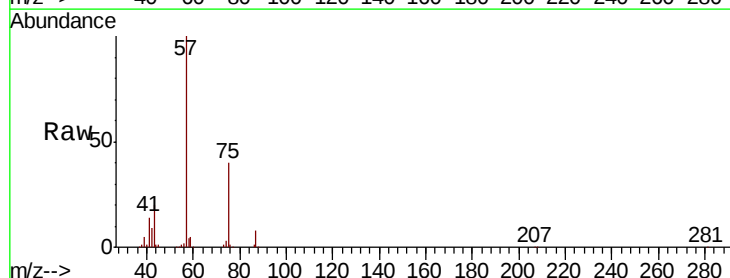
Acq: 19 Mar 2020 2:59

Tgt Ion: 43 Resp: 62918

Ion Ratio Lower Upper

43 100

58 18.6 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.899 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

TP-11A

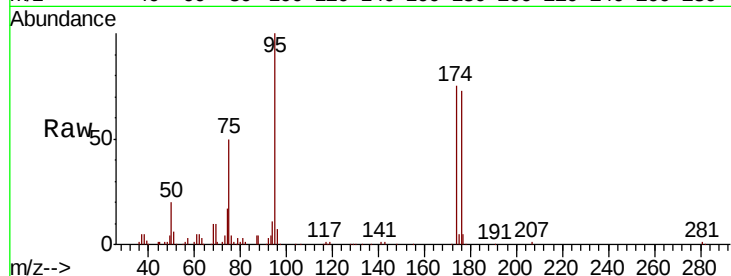
Tot Ion: 95 Resp: 158763

Ion Ratio Lower Upper

95 100

174 77.0 0.0 157.6

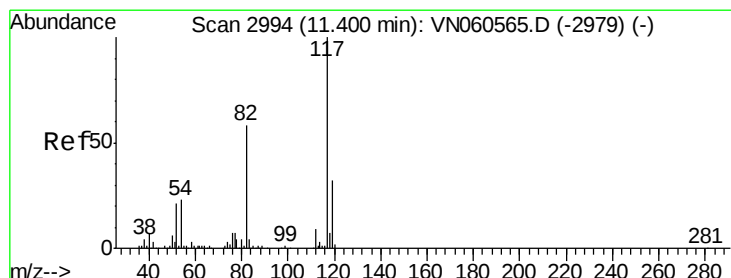
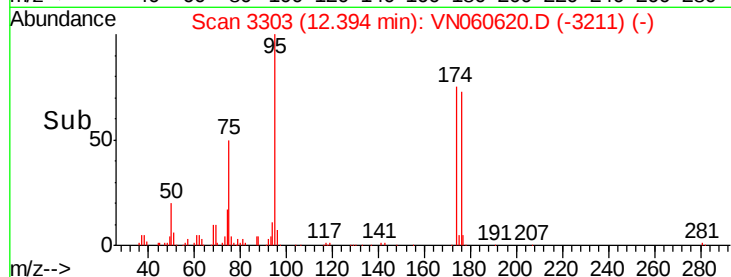
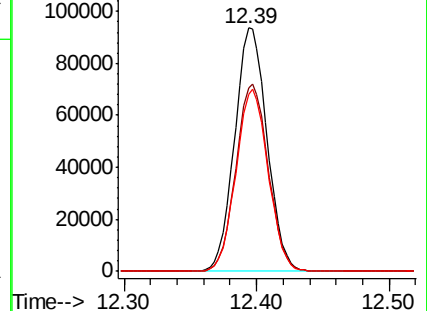
176 74.4 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060620.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060620.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060620.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

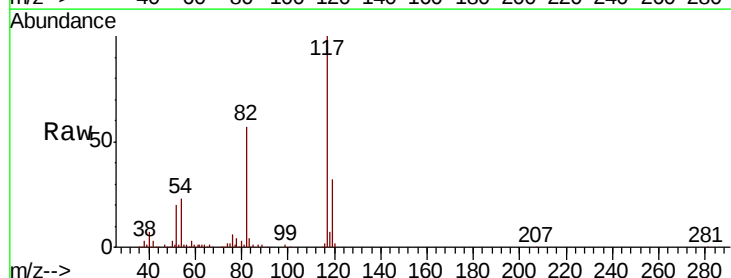
Tgt Ion: 117 Resp: 318482

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

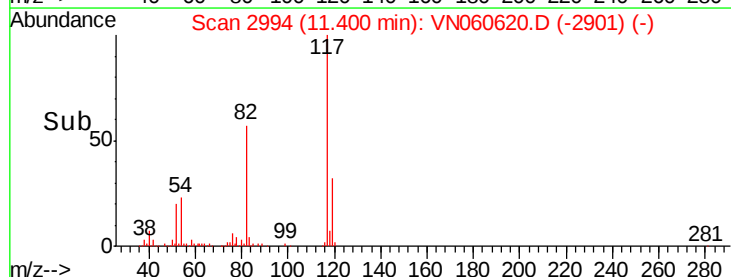
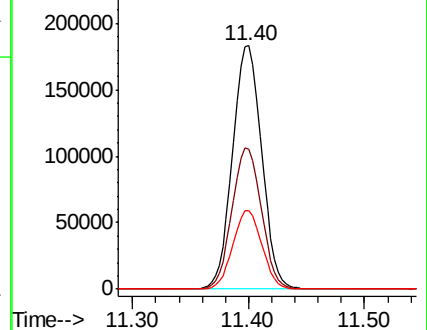
119 32.3 25.5 38.3

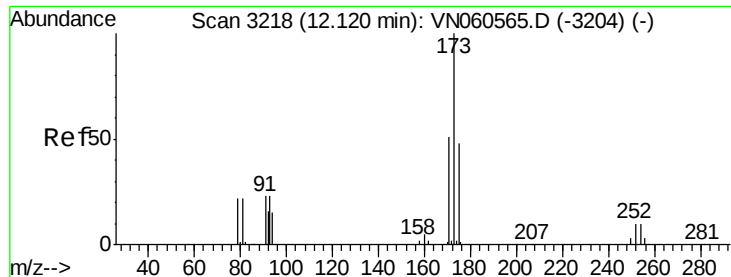


Abundance Ion 116.90 (116.60 to 117.60): VN060620.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060620.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060620.D (-2979) (-)





#71

Bromoform

Concen: 1.828 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

TP-11A

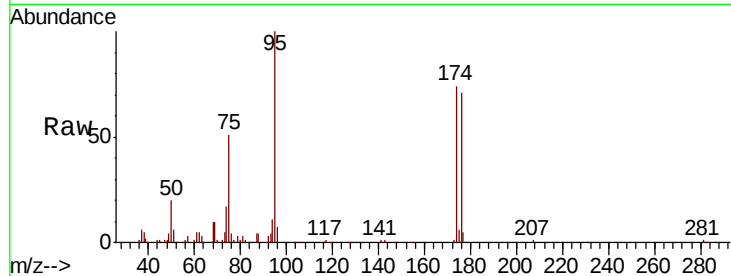
Tot Ion:173 Resp: 290

Ion Ratio Lower Upper

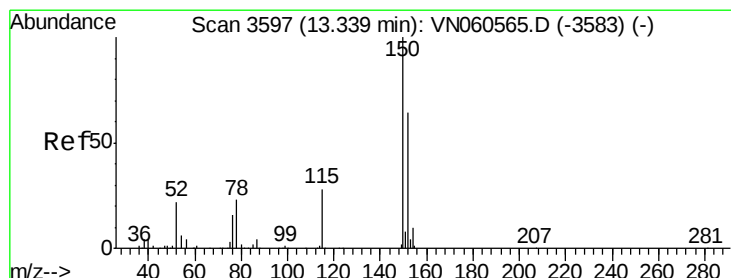
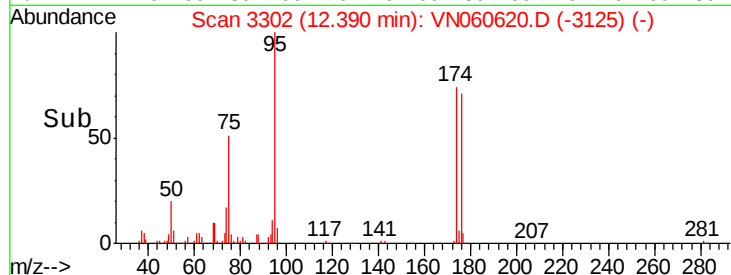
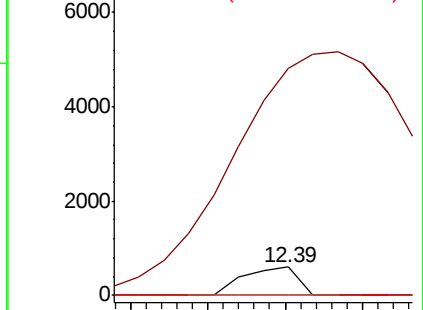
173 100

175 2643.4 24.1 72.4#

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: VN060620.D

Acq: 19 Mar 2020 2:59

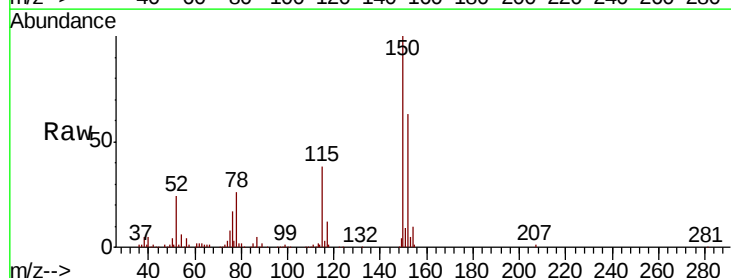
Tgt Ion:152 Resp: 146196

Ion Ratio Lower Upper

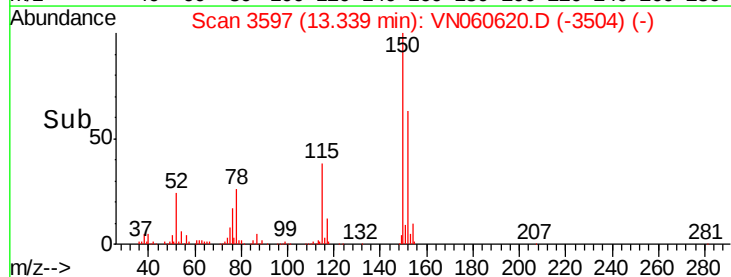
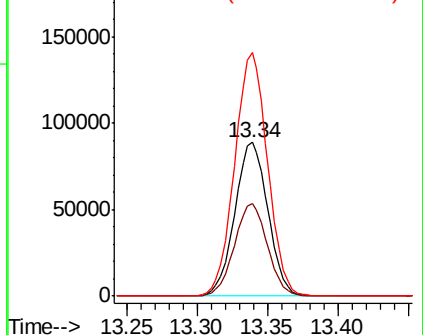
152 100

115 59.9 30.2 90.6

150 157.4 0.0 350.2



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: 0.649 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

TP-11A

Tot Ion: 43 Resp: 3288

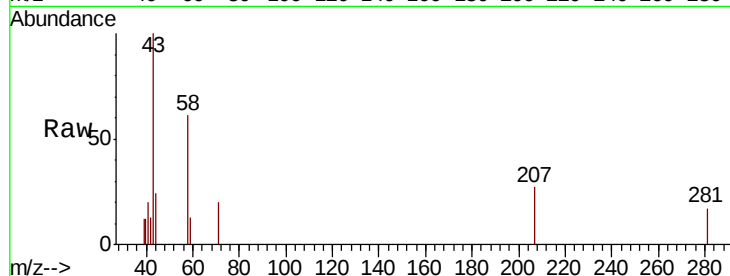
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

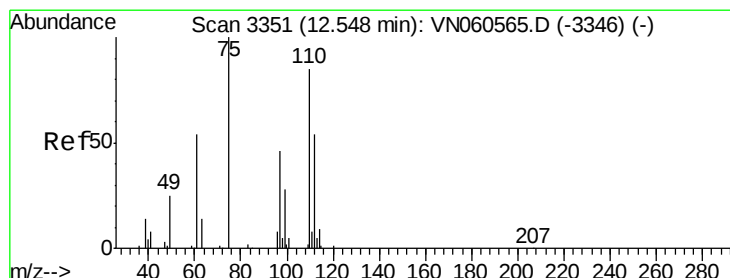
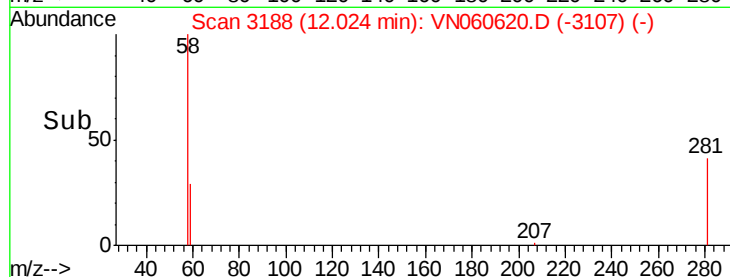
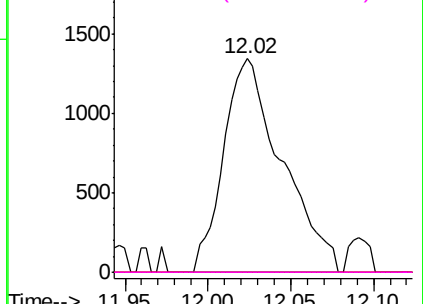


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.184 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060620.D

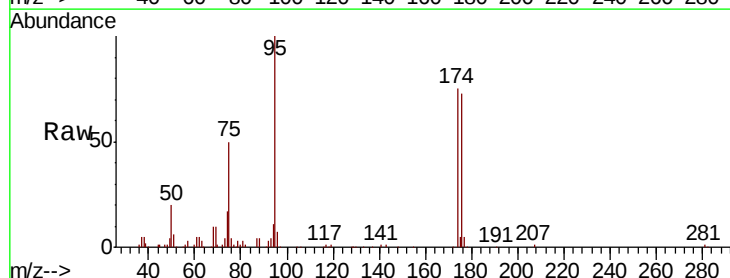
Acq: 19 Mar 2020 2:59

Tgt Ion: 75 Resp: 79447

Ion Ratio Lower Upper

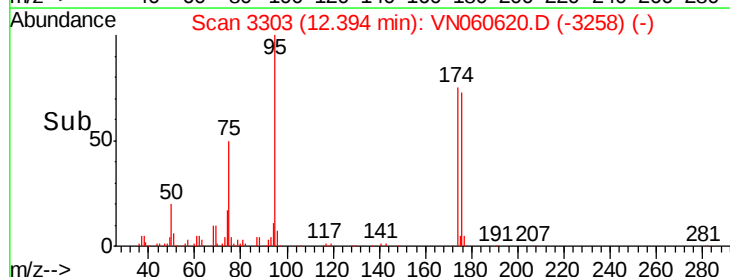
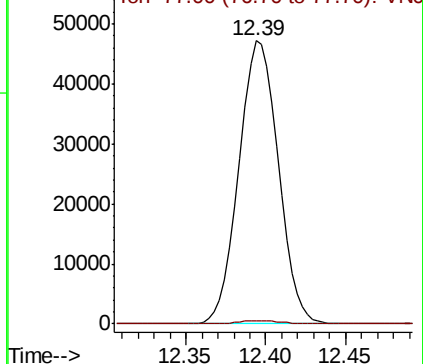
75 100

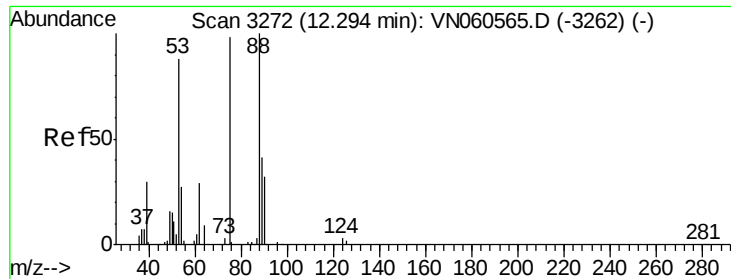
77 1.2 0.0 0.0#



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: 64.681 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060620.D

Acq: 19 Mar 2020 2:59

Instrument :

MSVOA_N

ClientSampleId :

TP-11A

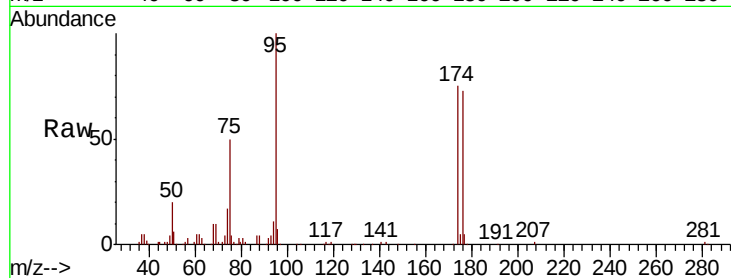
Tot Ion: 75 Resp: 79447

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



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

