

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031920\
 Data File : VN060633.D
 Acq On : 19 Mar 2020 13:52
 Operator : JC/MD
 Sample : PB127661ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 01:49:08 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	205453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	340156	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	324618	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145371	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	134158	47.57	ug/l	0.00
Spiked Amount						
			Recovery	=	95.14%	
35) Dibromofluoromethane	7.56	113	99719	48.48	ug/l	0.00
Spiked Amount						
			Recovery	=	96.96%	
50) Toluene-d8	10.08	98	422002	50.23	ug/l	0.00
Spiked Amount						
			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	12.40	95	158181	51.37	ug/l	0.00
Spiked Amount						
			Recovery	=	102.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6269	6.275	ug/l	98
18) Methyl Acetate	4.30	43	1863	0.663	ug/l #	54
20) Methylene Chloride	4.53	84	6579	2.677	ug/l	91
25) 2-Butanone	6.81	43	859	0.531	ug/l #	50
31) Cyclohexane	7.64	56	4117	0.906	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15699	4.766	ug/l #	50
37) Ethyl Acetate	6.81	43	859	0.241	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19257	6.523	ug/l #	17
43) Isopropyl Acetate	8.14	43	62426	10.636	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1347	0.513	ug/l #	43
48) Methyl methacrylate	9.16	41	2996	1.146	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4932	1.477	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	26325	6.338	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	4260	1.063	ug/l #	42
59) 2-Hexanone	10.75	43	64871	26.963	ug/l #	52
71) Bromoform	12.39	173	105	1.733	ug/l #	1
74) N-amyl acetate	12.02	43	3383	0.671	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	80783	25.753	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3281	0.354	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	80783	66.142	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

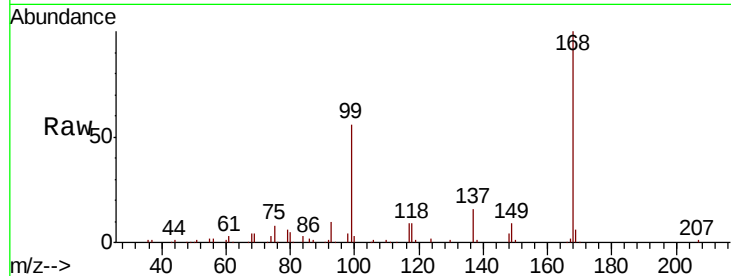
ClientSampleId :

Tot Ion:168 Resp: 205453

Ion Ratio Lower Upper

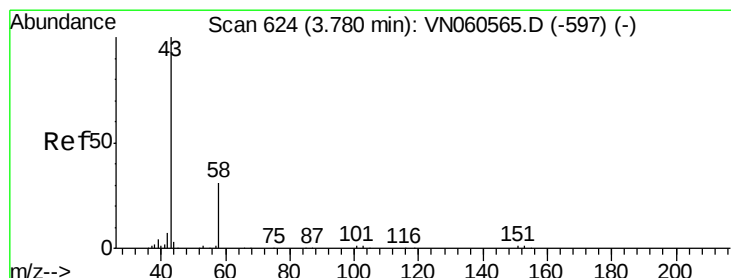
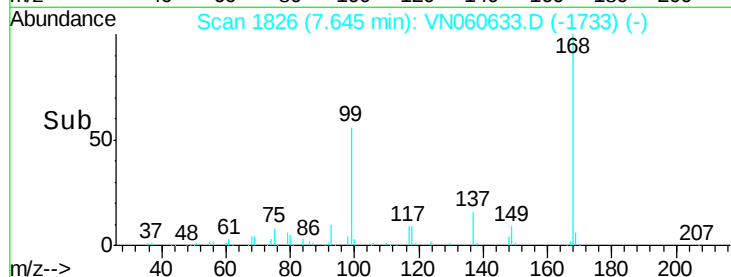
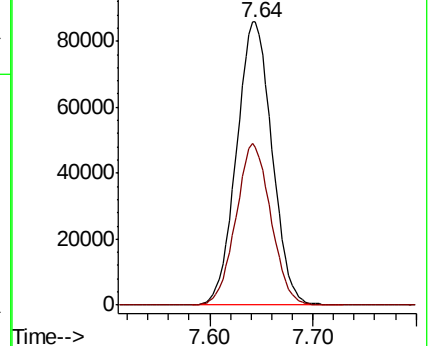
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060565.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN060565.D (-1807) (-)



#16

Acetone

Concen: 6.275 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060633.D

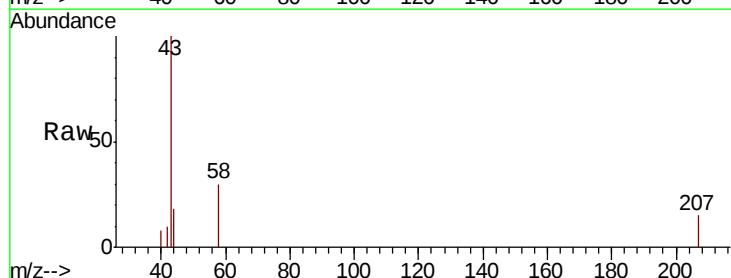
Acq: 19 Mar 2020 13:52

Tgt Ion: 43 Resp: 6269

Ion Ratio Lower Upper

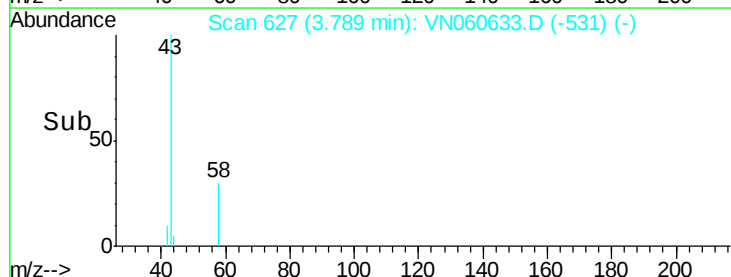
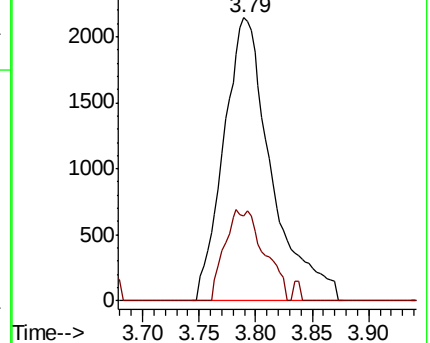
43 100

58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-597) (-)

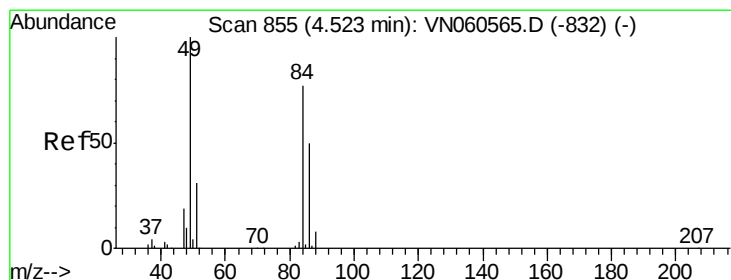
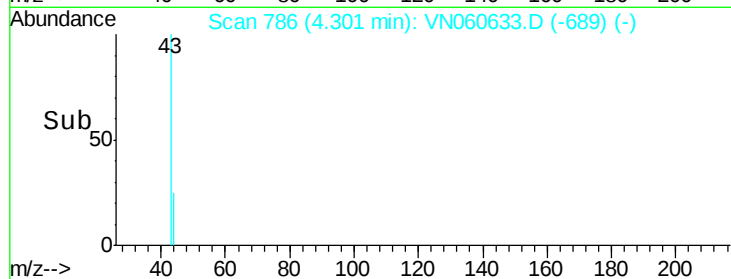
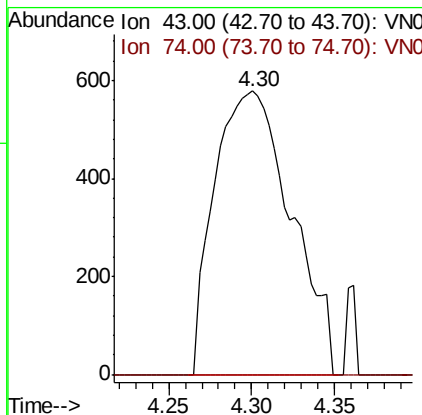
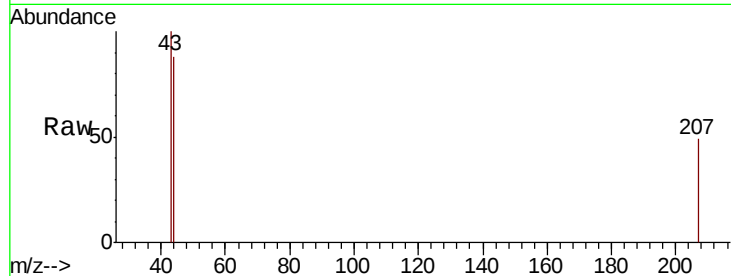




#18
Methyl Acetate
Concen: 0.663 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

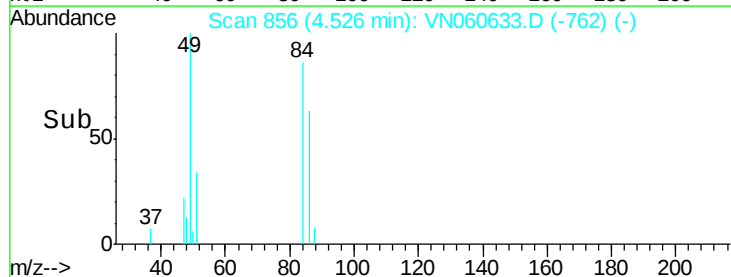
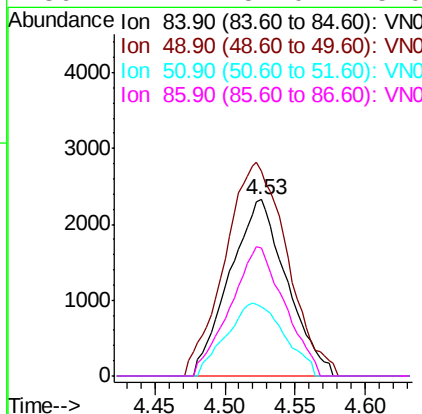
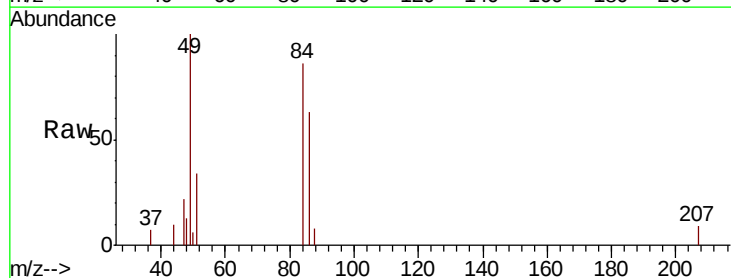
Instrument :
MSVOA_N
ClientSampleId :

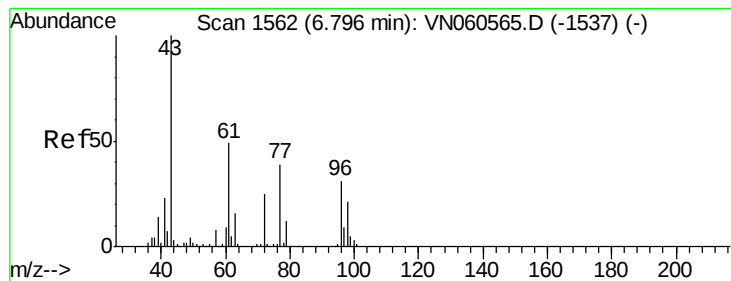
Tot Ion: 43 Resp: 1863
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.677 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Tgt Ion: 84 Resp: 6579
Ion Ratio Lower Upper
84 100
49 115.9 103.3 154.9
51 38.8 31.6 47.4
86 72.7 52.0 78.0





#25

2-Butanone

Concen: 0.531 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

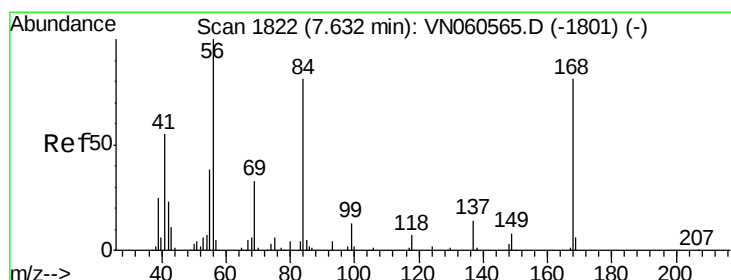
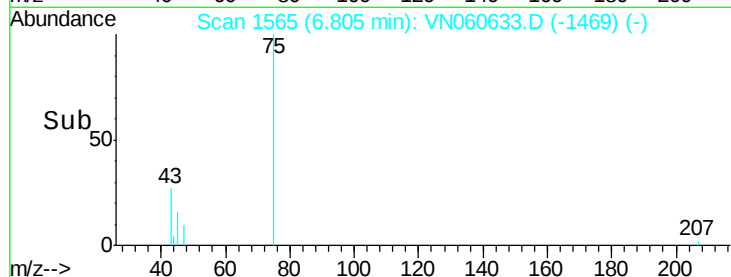
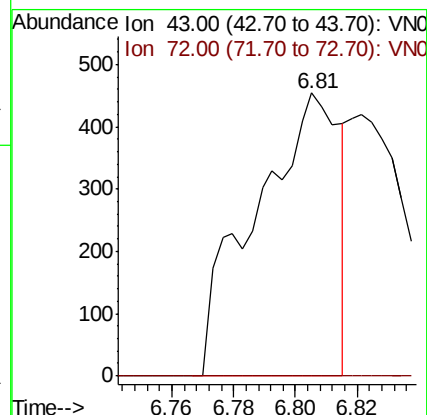
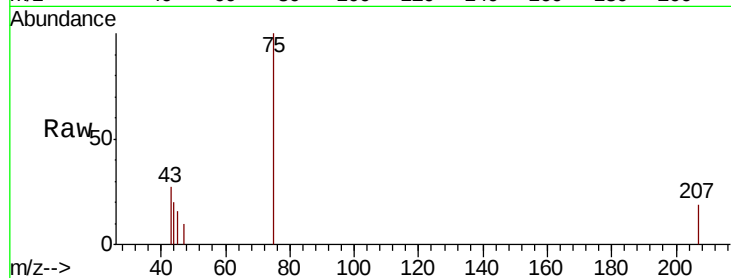
ClientSampleId :

Tot Ion: 43 Resp: 859

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



#31

Cyclohexane

Concen: 0.906 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

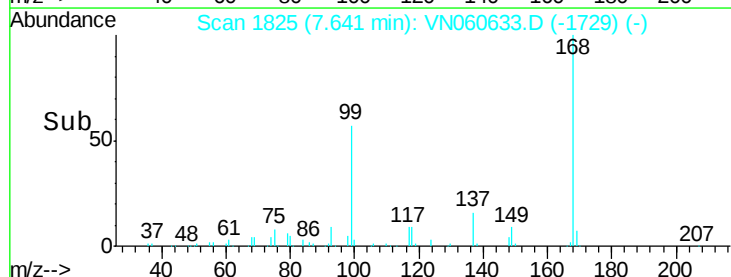
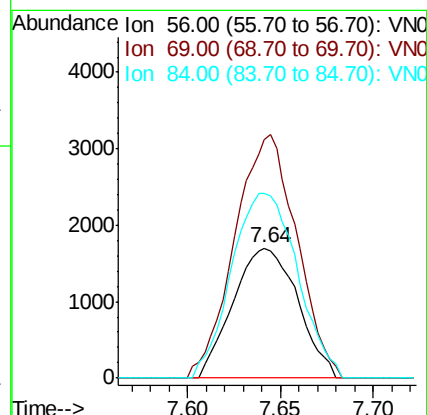
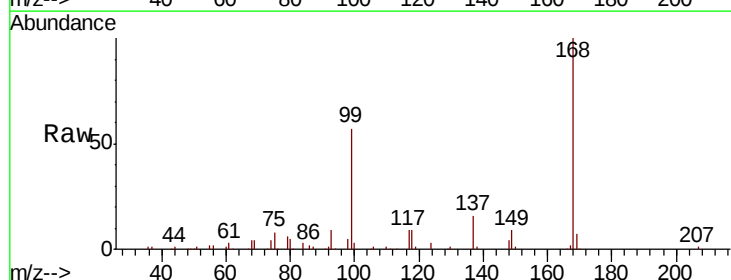
Tgt Ion: 56 Resp: 4117

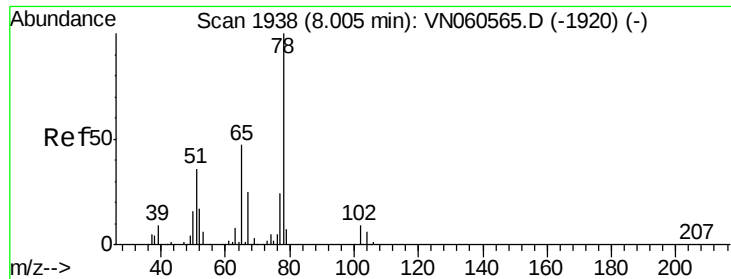
Ion Ratio Lower Upper

56 100

69 183.6 26.6 40.0#

84 142.6 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 47.567 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

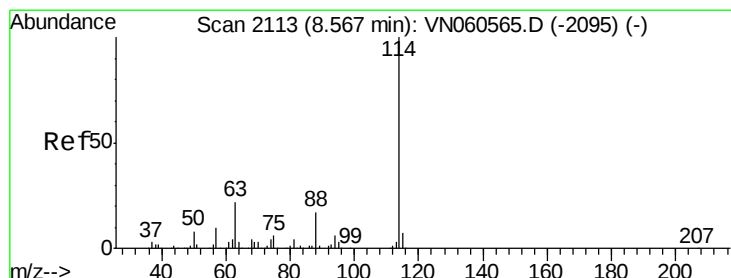
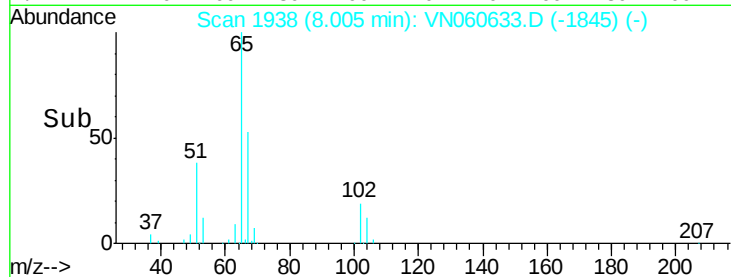
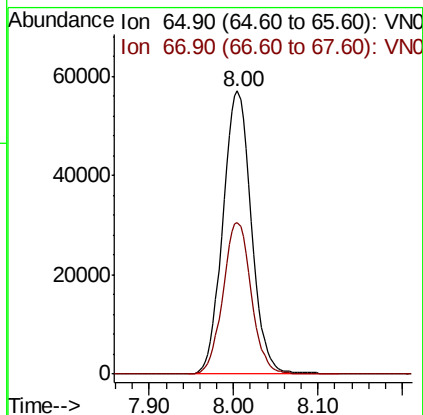
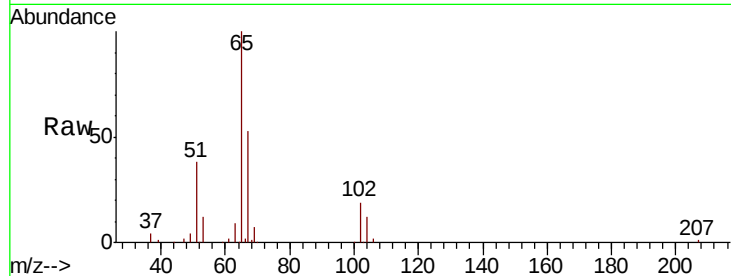
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 134158

Ion Ratio Lower Upper

65 100

67 52.9 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

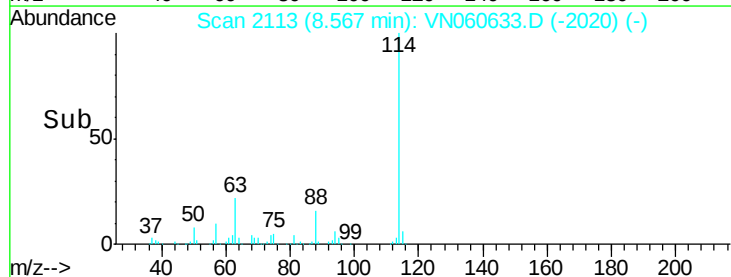
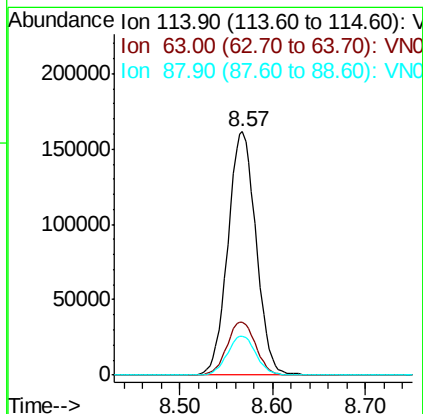
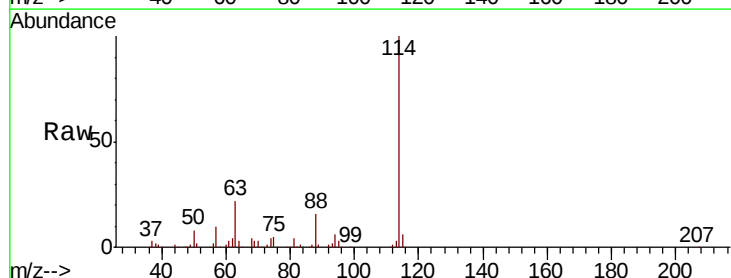
Tgt Ion: 114 Resp: 340156

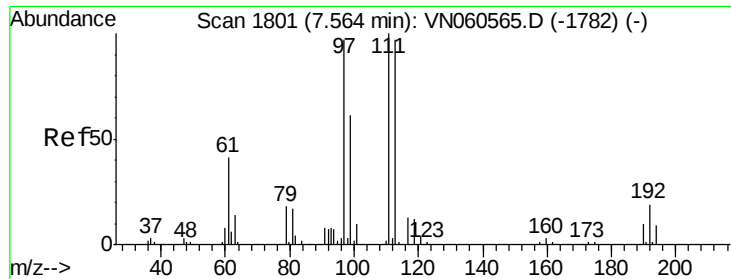
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.8

88 16.2 0.0 33.0

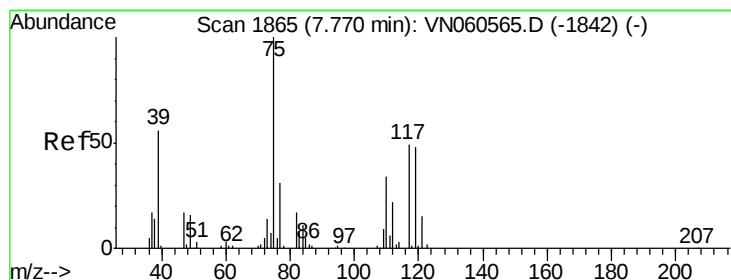
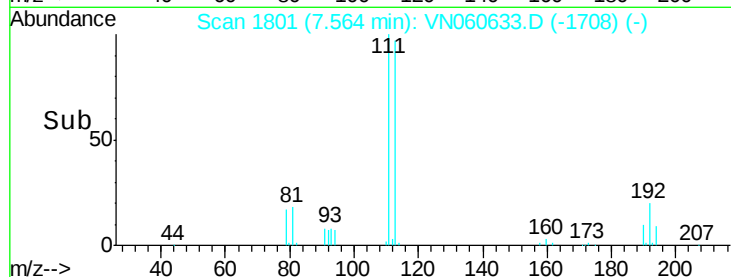
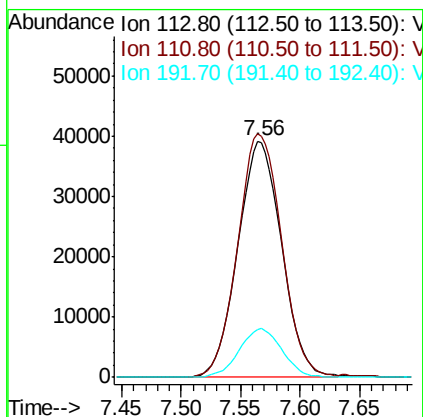
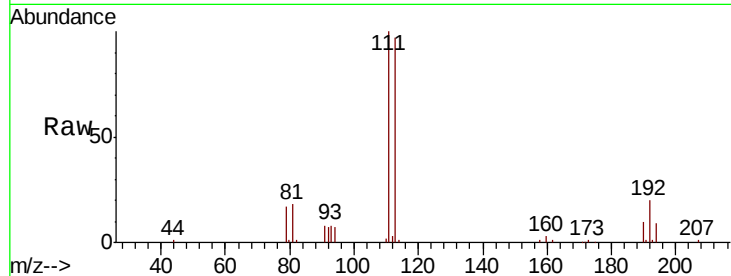




#35
 Dibromofluoromethane
 Concen: 48.482 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060633.D
 Acq: 19 Mar 2020 13:52

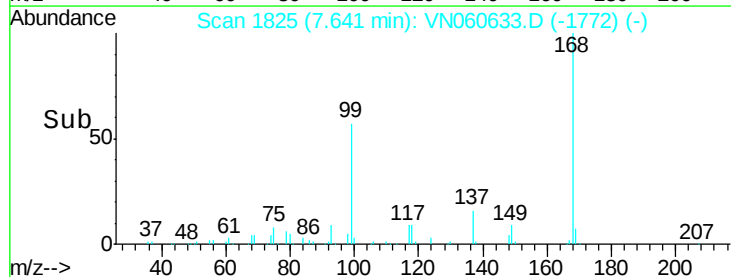
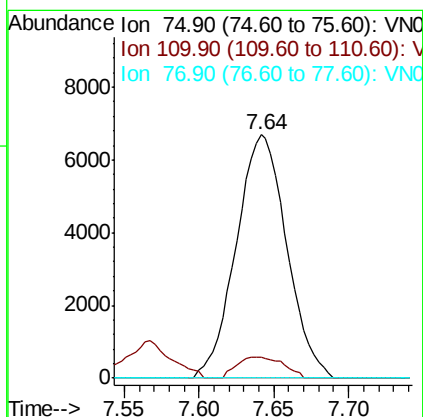
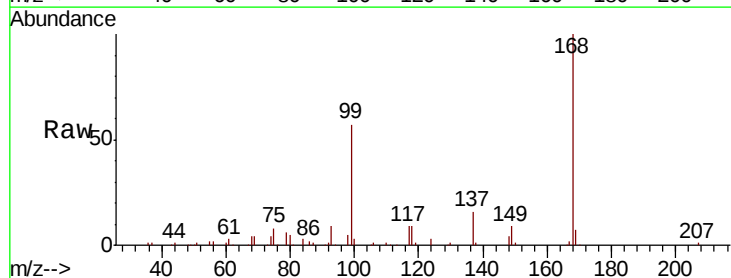
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 99719
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.9 124.3
 192 20.1 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.766 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060633.D
 Acq: 19 Mar 2020 13:52

Tgt Ion: 75 Resp: 15699
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.9 50.6#
 77 0.0 24.6 36.8#

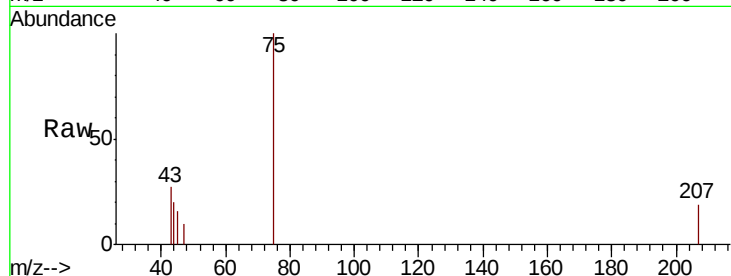




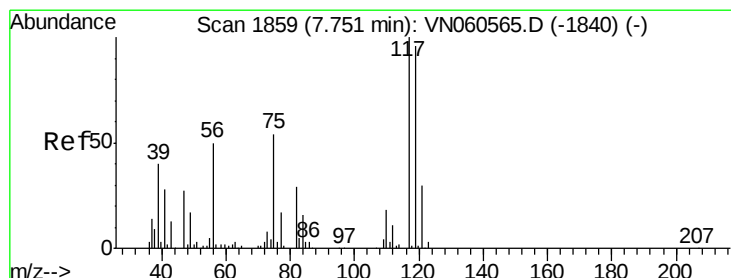
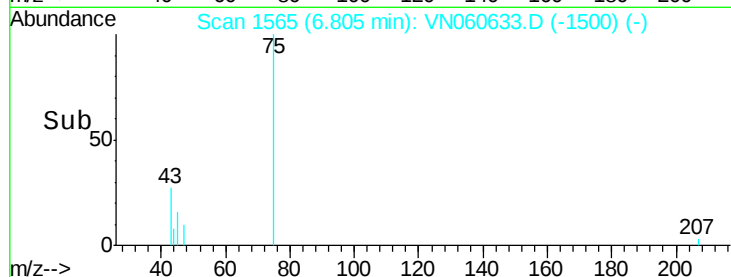
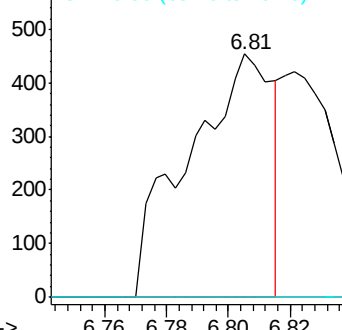
#37
Ethyl Acetate
Concen: 0.241 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 859
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

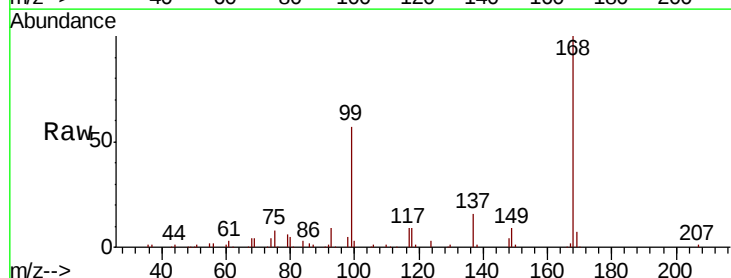


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

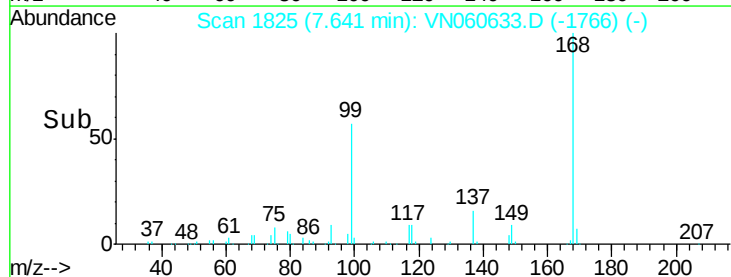
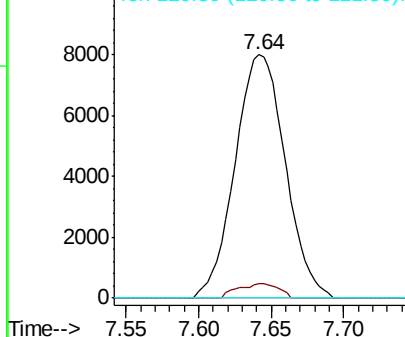


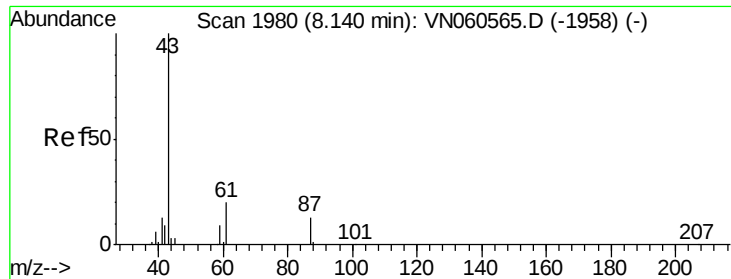
#38
Carbon Tetrachloride
Concen: 6.523 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Tgt Ion: 117 Resp: 19257
Ion Ratio Lower Upper
117 100
119 6.1 76.2 114.2#
121 0.0 23.7 35.5#



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





#43

Isopropyl Acetate

Concen: 10.636 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

ClientSampleId :

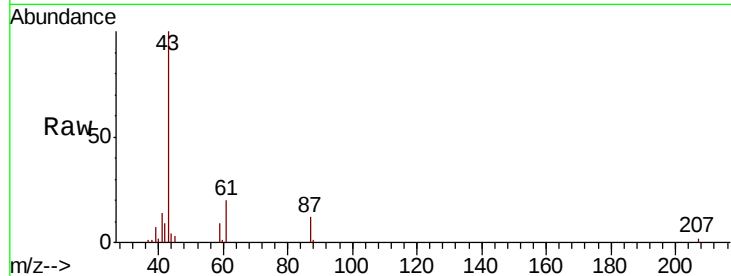
Tot Ion: 43 Resp: 62426

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

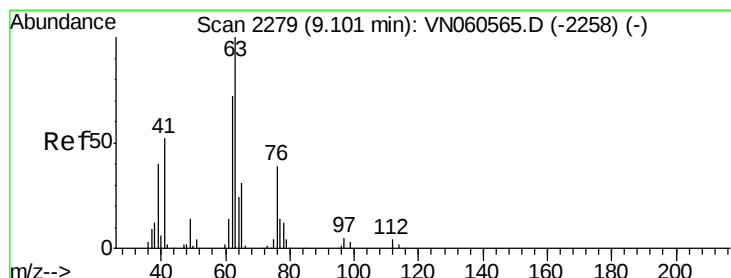
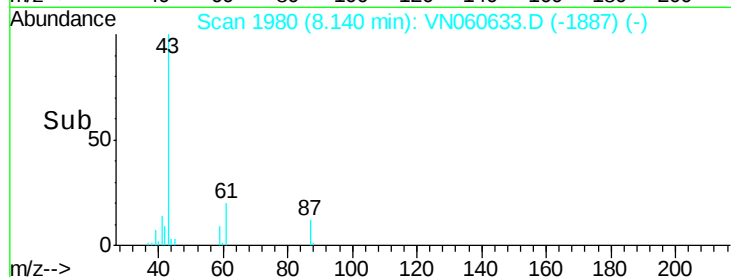
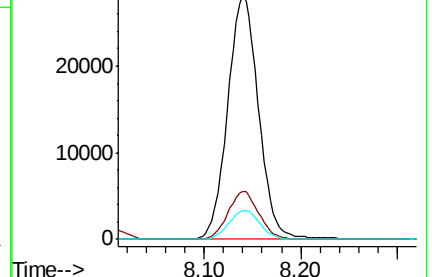
87 11.8 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060565.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060565.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.513 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060633.D

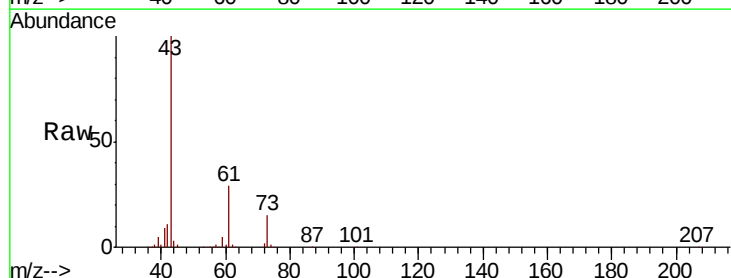
Acq: 19 Mar 2020 13:52

Tgt Ion: 63 Resp: 1347

Ion Ratio Lower Upper

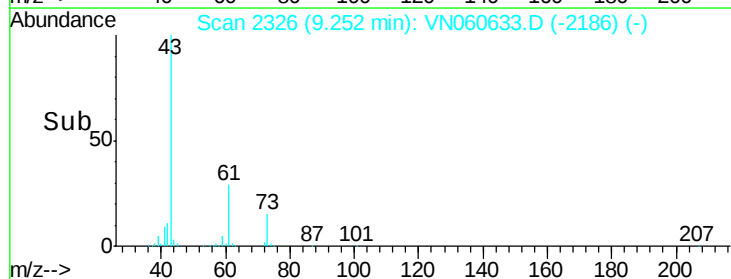
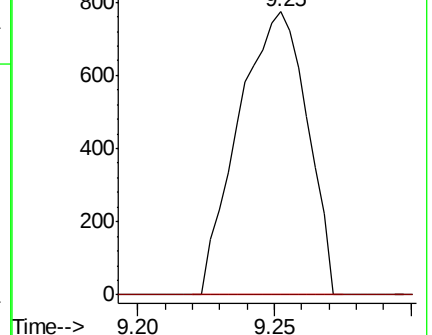
63 100

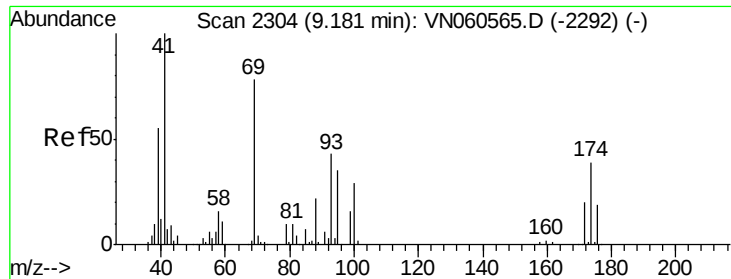
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060565.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060565.D (-2258) (-)

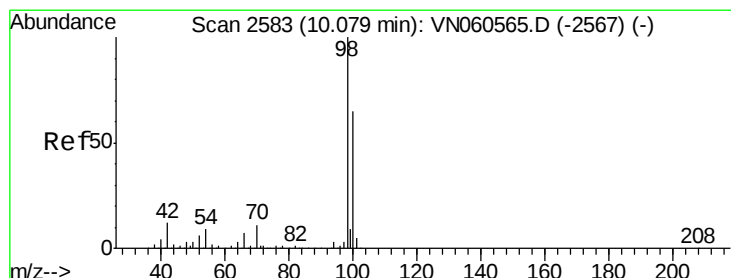
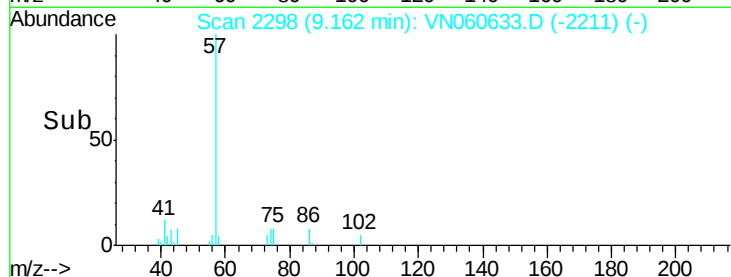
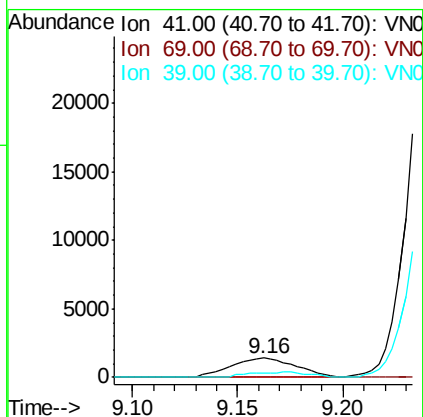
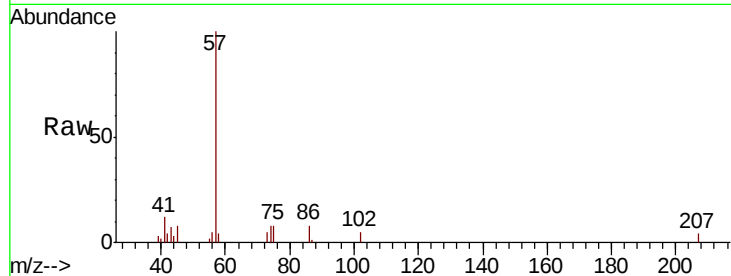




#48
Methvl methacrylate
Concen: 1.146 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

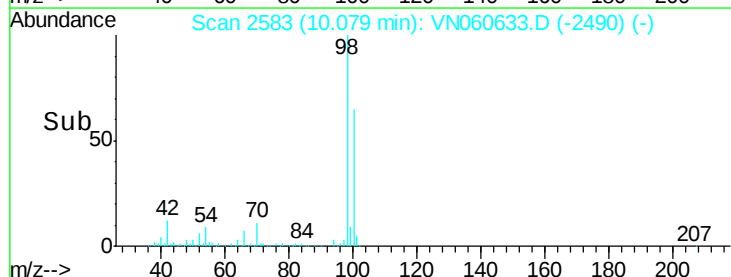
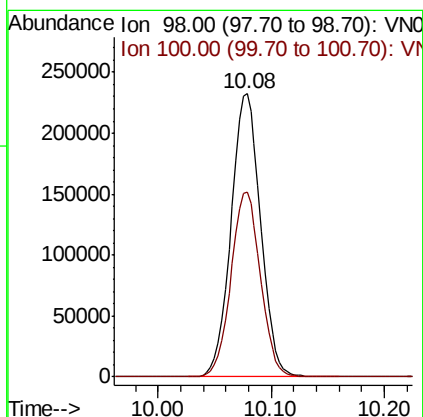
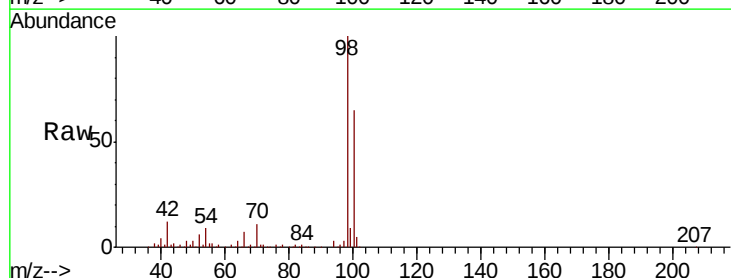
Instrument :
MSVOA_N
ClientSampleId :

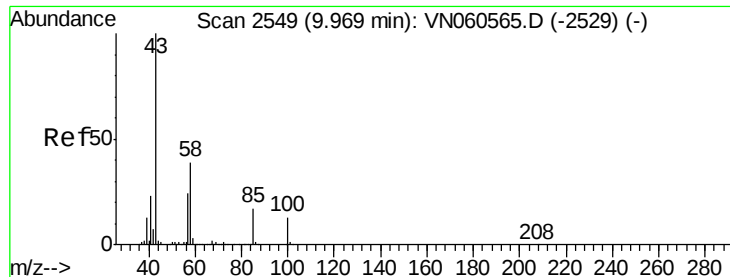
Tot Ion: 41 Resp: 2996
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.231 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Tgt Ion: 98 Resp: 422002
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.477 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

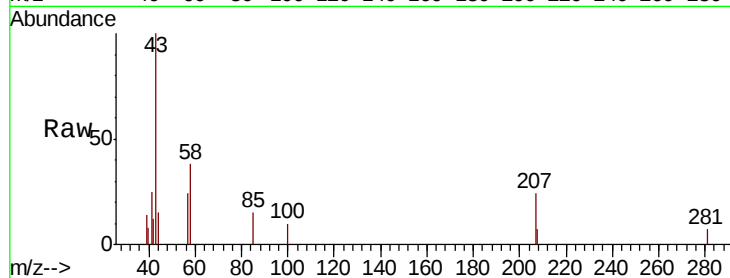
ClientSampled :

Tot Ion: 43 Resp: 4932

Ion Ratio Lower Upper

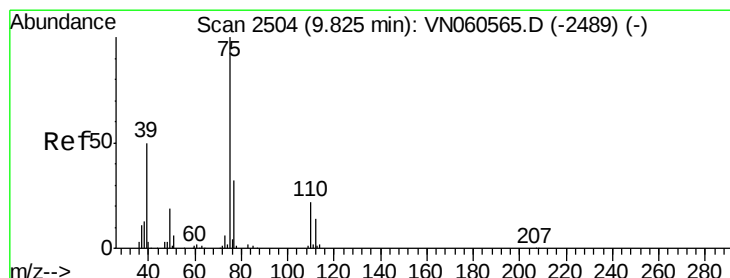
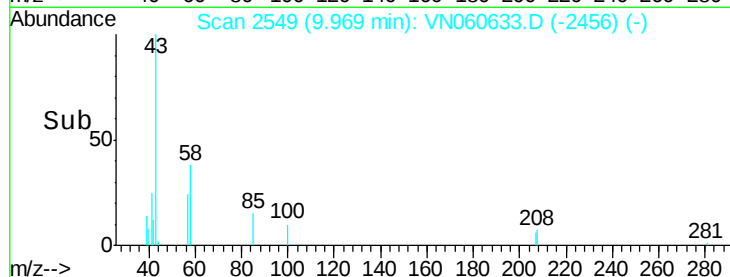
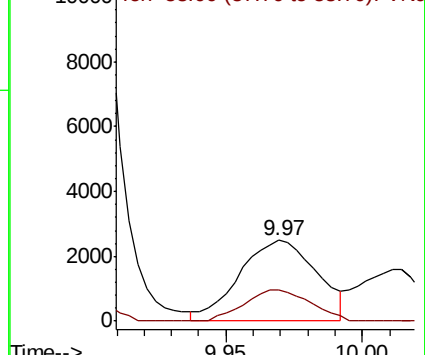
43 100

58 32.9 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060633.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060633.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.338 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

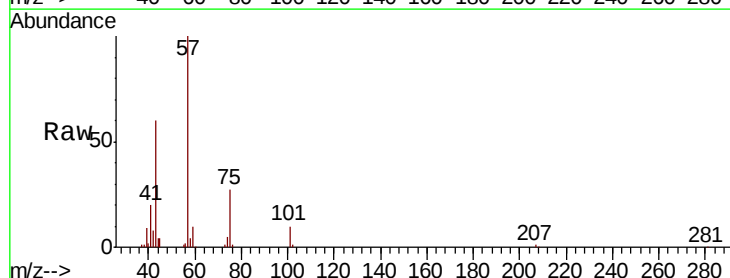
Tgt Ion: 75 Resp: 26325

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

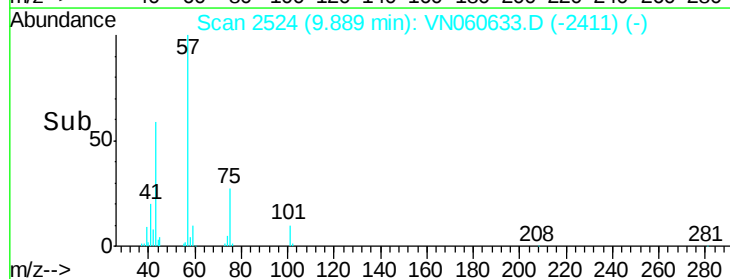
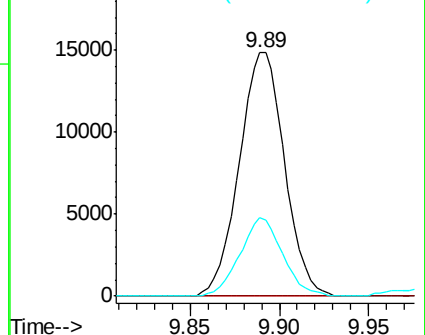
39 32.0 40.2 60.4#

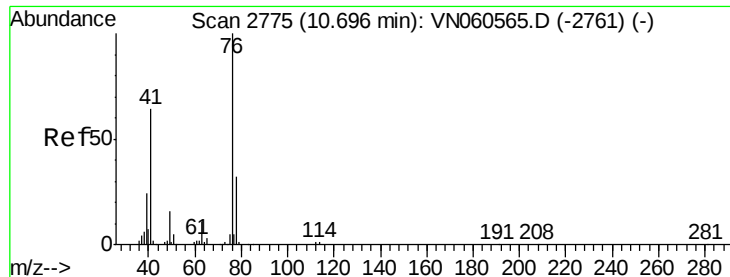


Abundance Ion 74.90 (74.60 to 75.60): VN060633.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060633.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060633.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 1.063 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

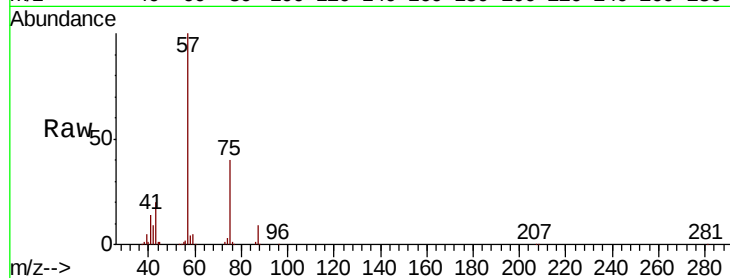
ClientSampleId :

Tot Ion: 76 Resp: 4260

Ion Ratio Lower Upper

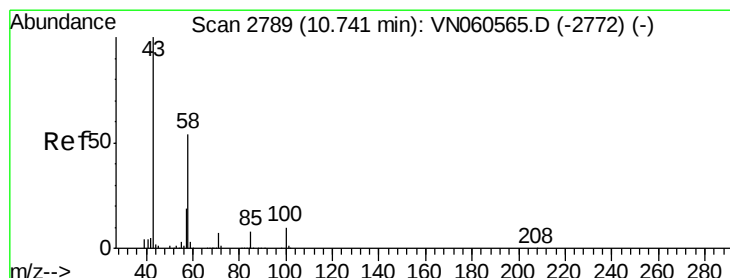
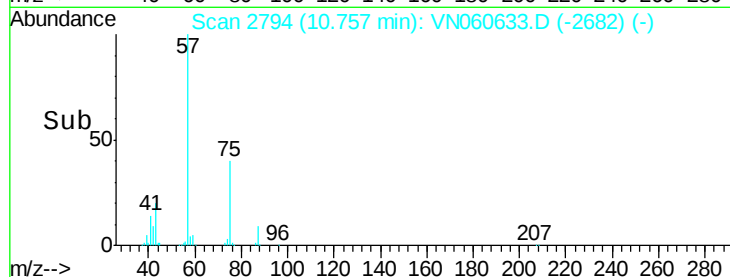
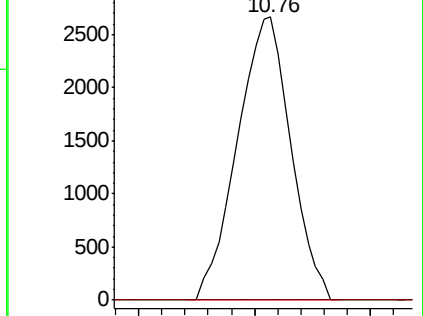
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.963 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060633.D

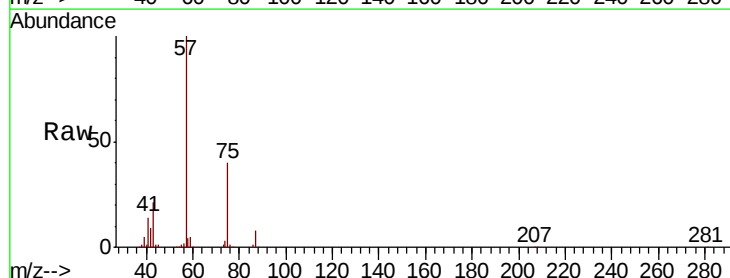
Acq: 19 Mar 2020 13:52

Tgt Ion: 43 Resp: 64871

Ion Ratio Lower Upper

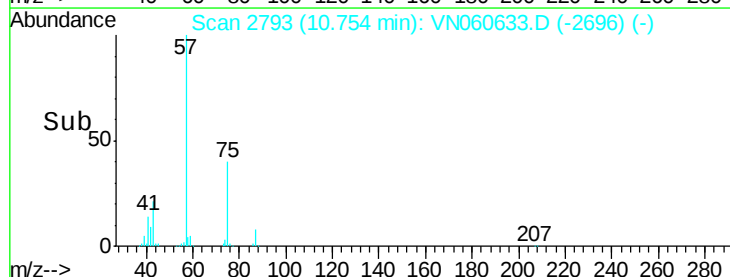
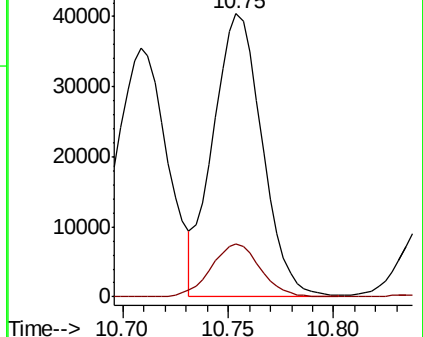
43 100

58 19.0 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.375 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

ClientSampleId :

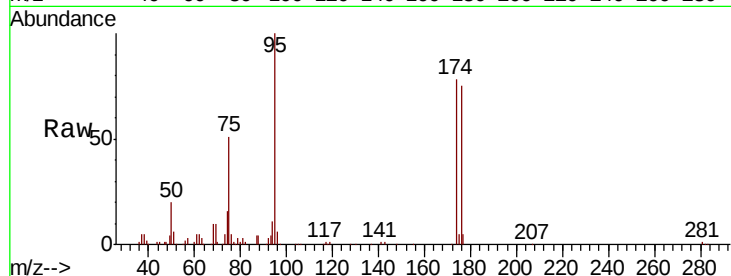
Tot Ion: 95 Resp: 158181

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

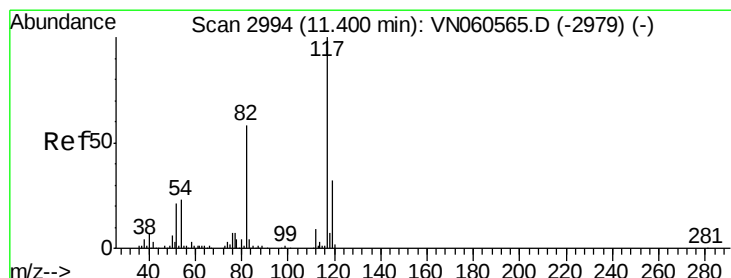
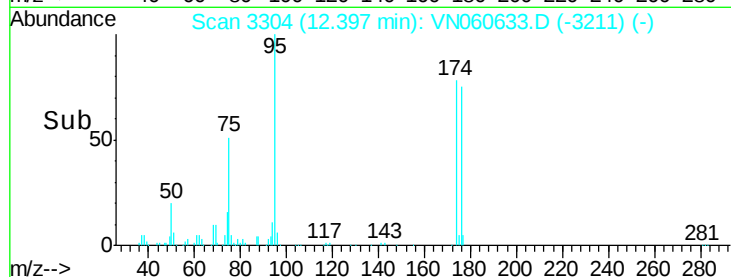
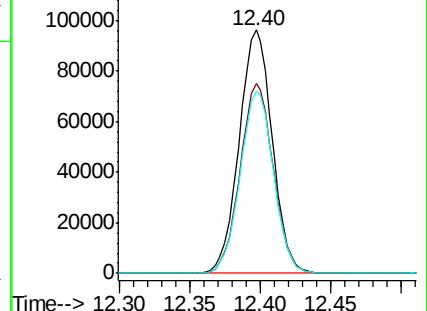
176 75.6 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060633.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060633.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060633.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

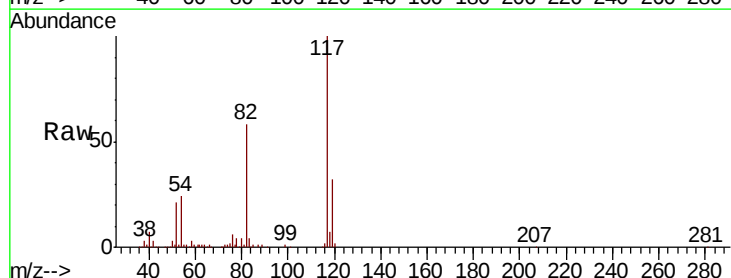
Tgt Ion: 117 Resp: 324618

Ion Ratio Lower Upper

117 100

82 57.6 46.7 70.1

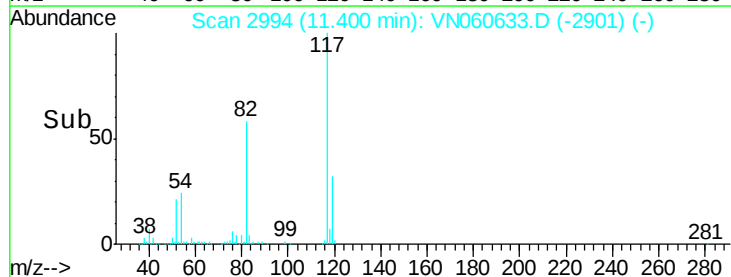
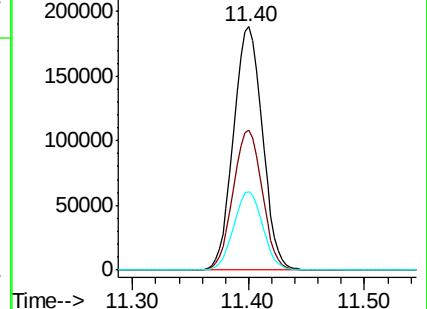
119 32.4 25.5 38.3

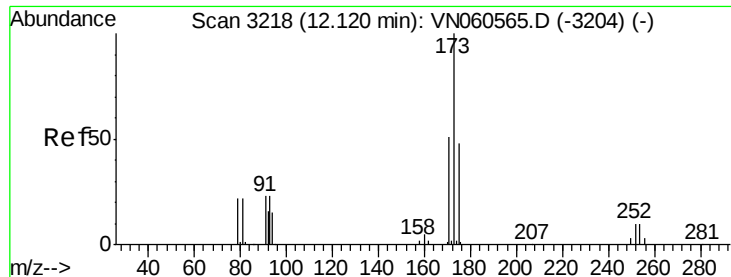


Abundance Ion 116.90 (116.60 to 117.60): VN060633.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060633.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060633.D (-2901) (-)

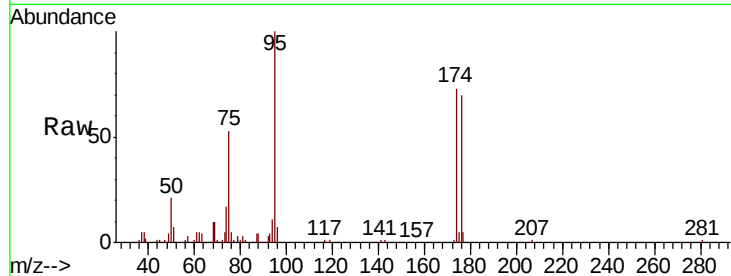




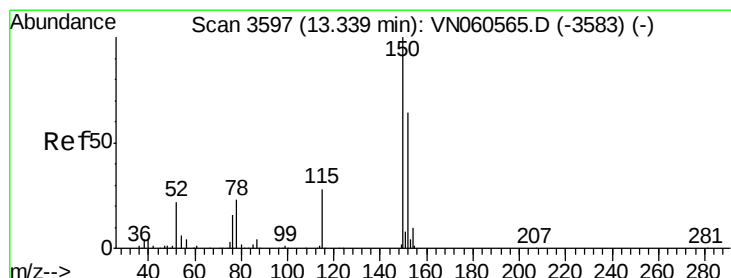
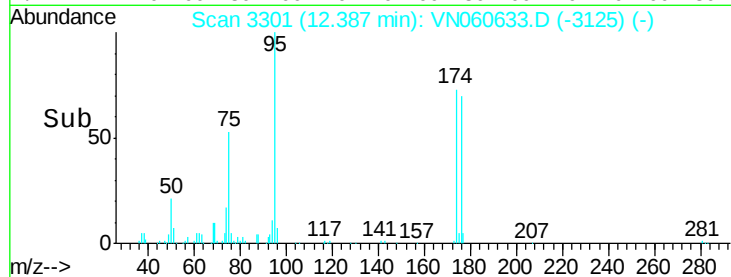
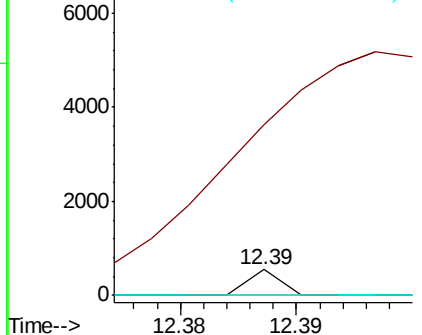
#71
Bromoform
Concen: 1.733 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.27 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 105
Ion Ratio Lower Upper
173 100
175 7068.6 24.1 72.4#
254 0.0 0.0 0.0

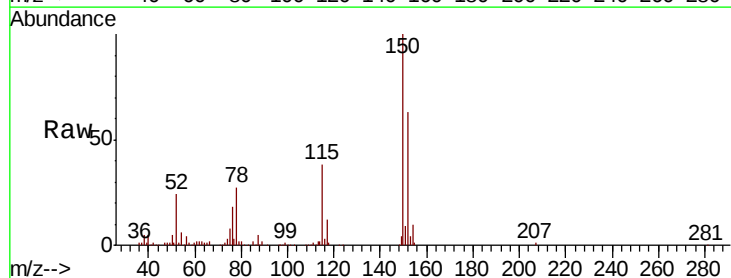


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

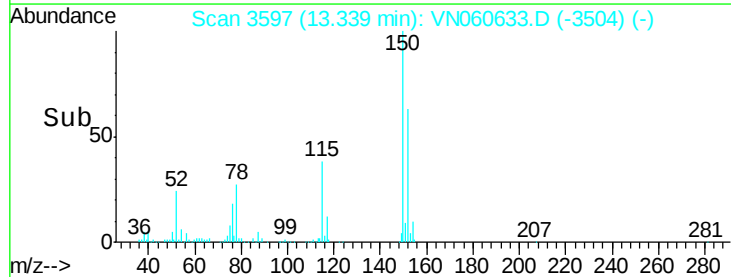
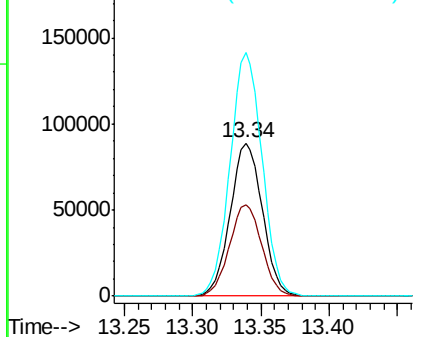


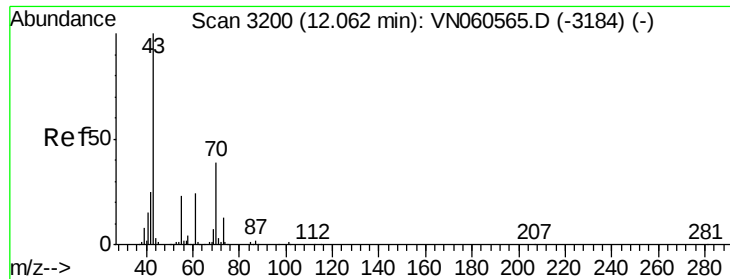
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060633.D
Acq: 19 Mar 2020 13:52

Tgt Ion:152 Resp: 145371
Ion Ratio Lower Upper
152 100
115 60.2 30.2 90.6
150 158.9 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: 0.671 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060633.D

Acq: 19 Mar 2020 13:52

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3383

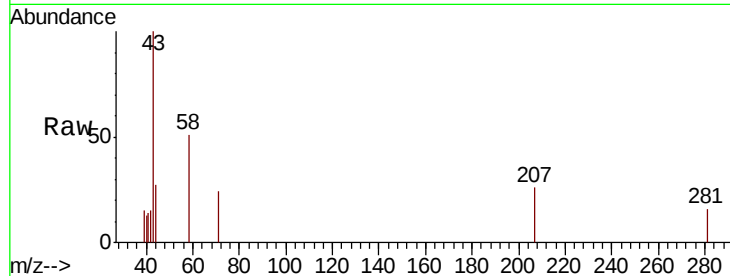
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

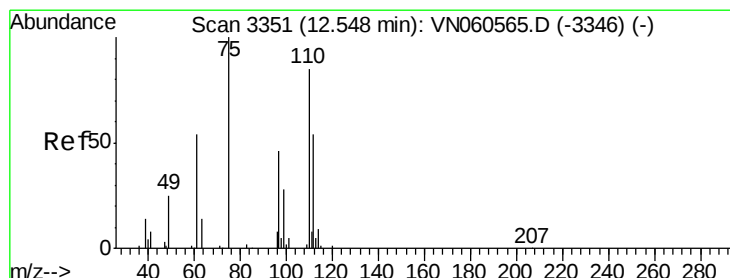
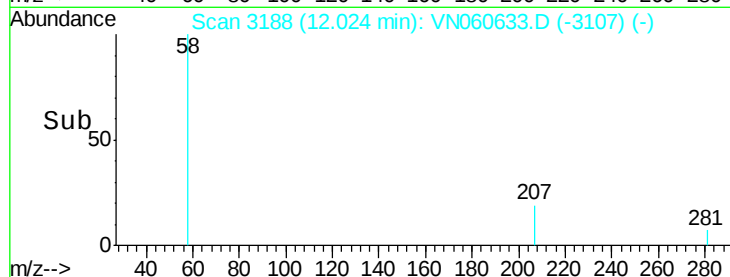
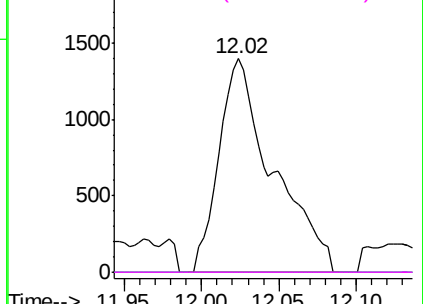


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 25.753 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060633.D

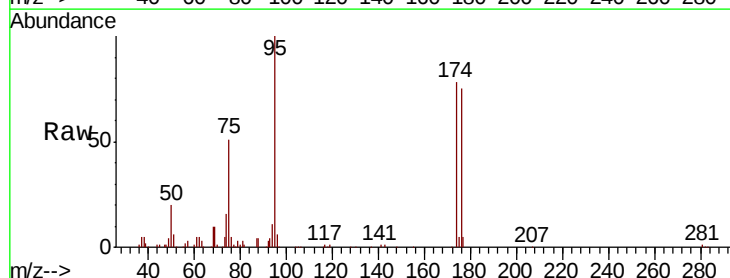
Acq: 19 Mar 2020 13:52

Tgt Ion: 75 Resp: 80783

Ion Ratio Lower Upper

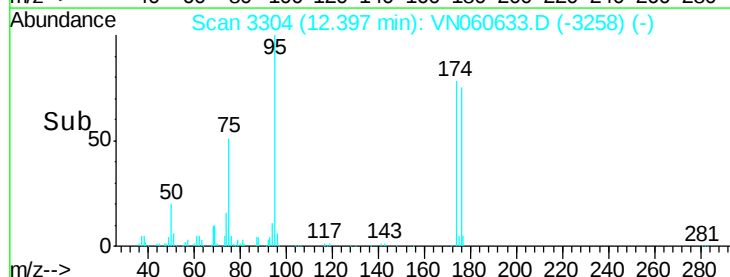
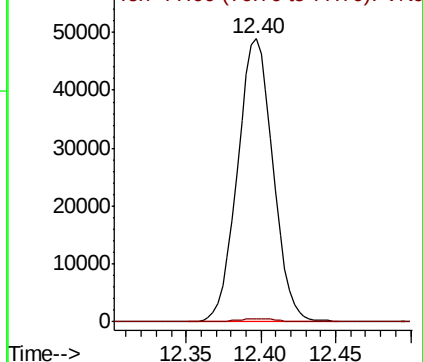
75 100

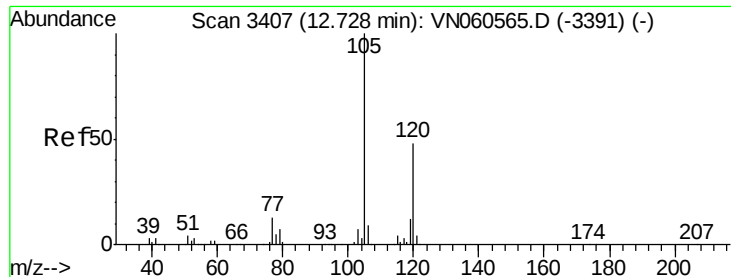
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC

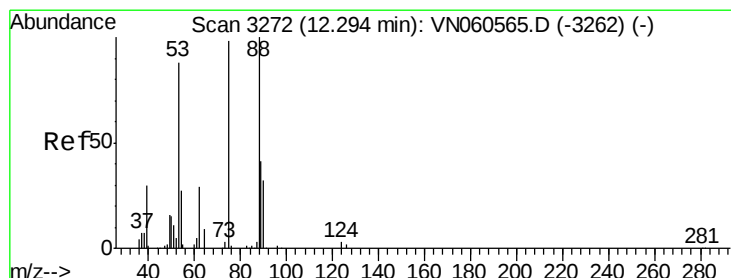
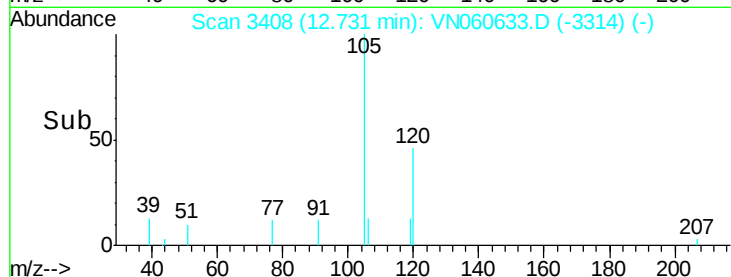
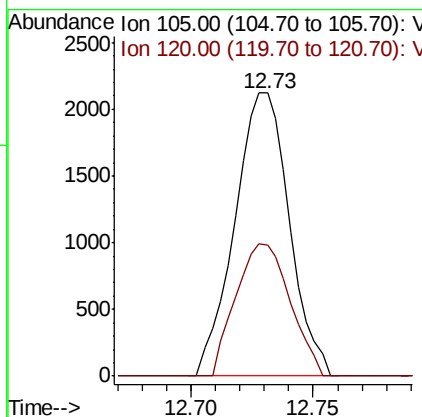
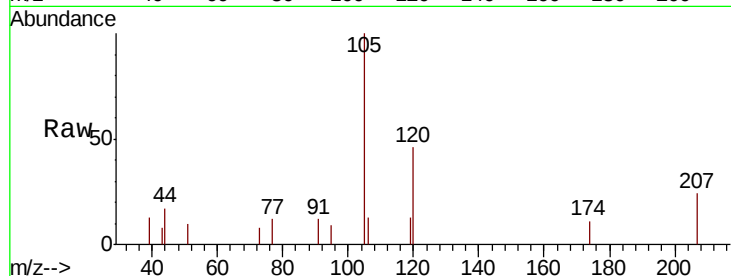




#80
 1,3,5-Trimethylbenzene
 Concen: 0.354 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN060633.D
 Acq: 19 Mar 2020 13:52

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:105 Resp: 3281
 Ion Ratio Lower Upper
 105 100
 120 46.5 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.142 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060633.D
 Acq: 19 Mar 2020 13:52

Tgt Ion: 75 Resp: 80783
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

