

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060122.D
 Acq On : 17 Feb 2020 16:15
 Operator : JC/MD
 Sample : PB126834ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

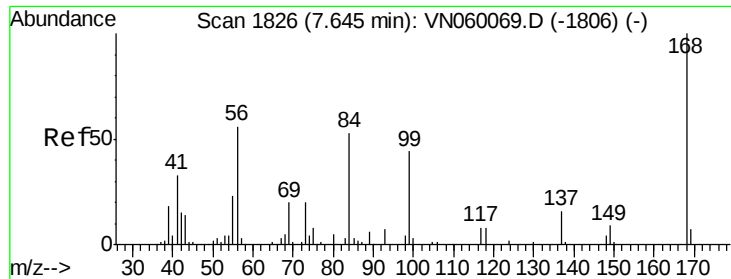
Quant Time: Feb 17 16:57:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	171288	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	277987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	266546	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119794	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	108360	51.99	ug/l	0.00
Spiked Amount			Recovery	=	103.98%	
35) Dibromofluoromethane	7.57	113	85744	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
50) Toluene-d8	10.08	98	341315	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	12.40	95	126635	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	381	0.382	ug/l	54
11) Tert butyl alcohol	4.72	59	343	1.100	ug/l #	72
16) Acetone	3.79	43	5776	6.353	ug/l	93
18) Methyl Acetate	4.29	43	579	0.339	ug/l #	50
20) Methylene Chloride	4.53	84	8281	4.565	ug/l	92
25) 2-Butanone	6.81	43	4484	3.922	ug/l	96
31) Cyclohexane	7.64	56	3719	1.262	ug/l #	8
36) 1,1-Dichloropropene	7.64	75	13017	5.055	ug/l #	47
37) Ethyl Acetate	6.81	43	4484	1.927	ug/l #	68
38) Carbon Tetrachloride	7.64	117	16377	5.857	ug/l #	15
43) Isopropyl Acetate	8.14	43	53604	13.475	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1037	0.548	ug/l #	43
48) Methyl methacrylate	9.16	41	3925	2.199	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3094	1.344	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	23450	7.262	ug/l #	62
56) Ethyl methacrylate	10.54	69	559	0.207	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	3799	1.205	ug/l #	43
59) 2-Hexanone	10.75	43	55719	31.327	ug/l #	53
74) N-amyl acetate	12.02	43	3313	1.027	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	65525	28.590	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1589	0.214	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65525	70.002	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	94	Below Cal	#	1

(#) = 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: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

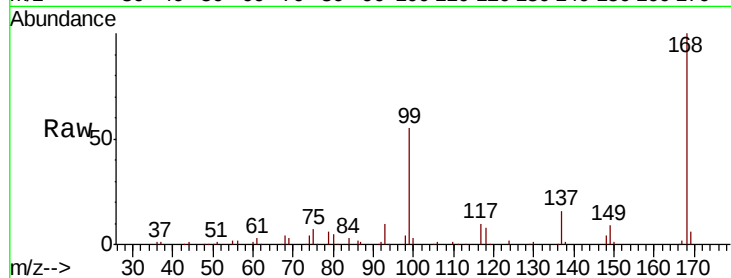
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Tot Ion:168 Resp: 171288

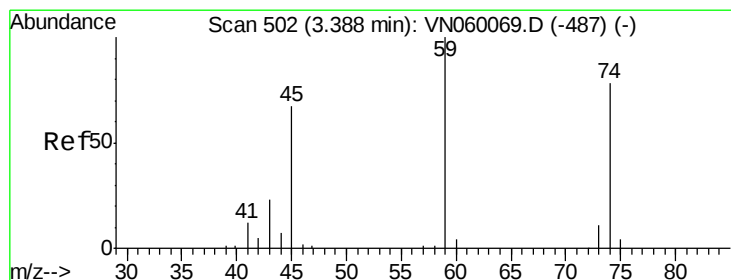
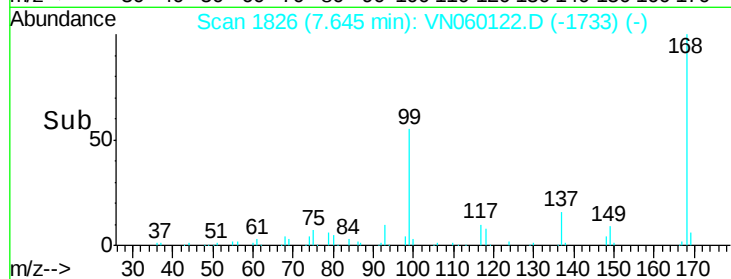
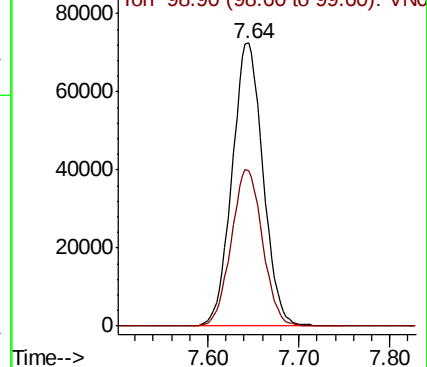
Ion Ratio Lower Upper

168 100

99 54.9 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060122.D (-1733) (-)



#8

Diethyl Ether

Concen: 0.382 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN060122.D

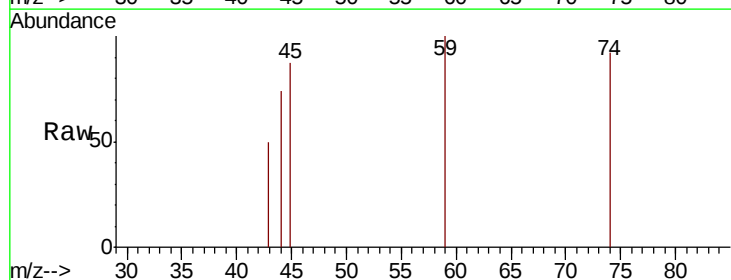
Acq: 17 Feb 2020 16:15

Tgt Ion: 74 Resp: 381

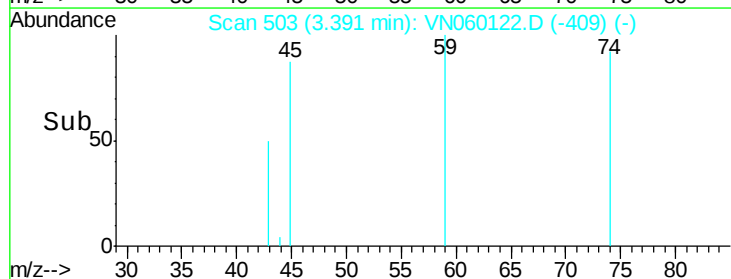
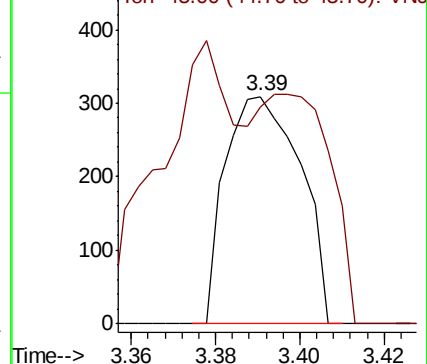
Ion Ratio Lower Upper

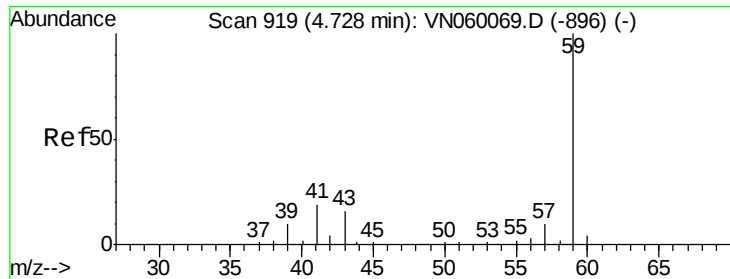
74 100

45 132.5 44.7 134.1



Abundance Ion 74.00 (73.70 to 74.70): VN060122.D (-409) (-)

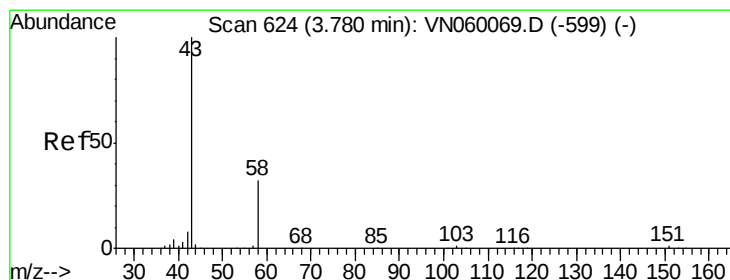
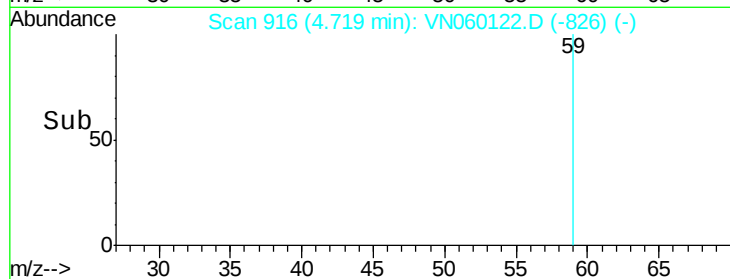
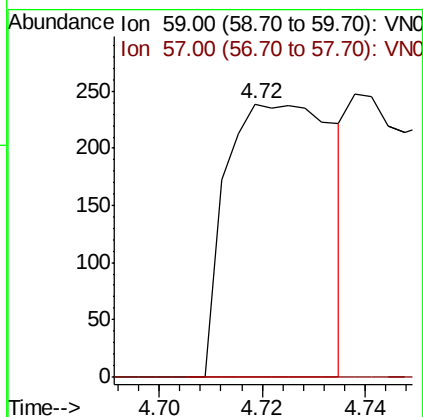
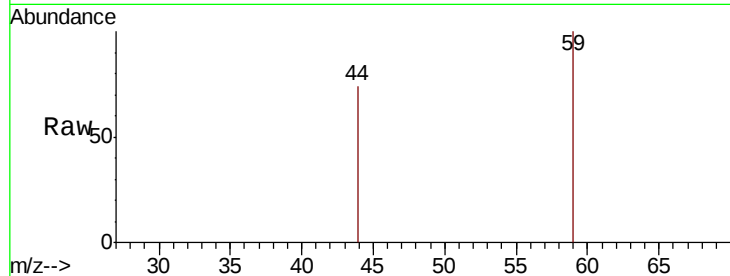




#11
Tert butyl alcohol
Concen: 1.100 ug/l
RT: 4.72 min Scan# 916
Delta R.T. -0.01 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

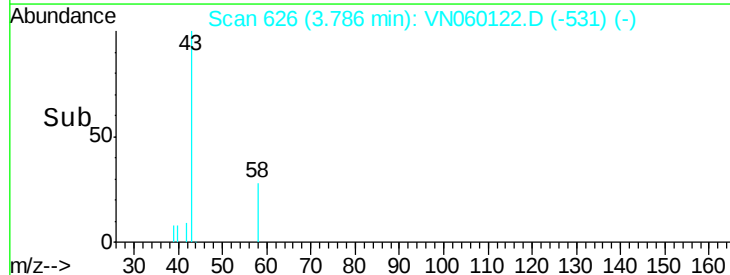
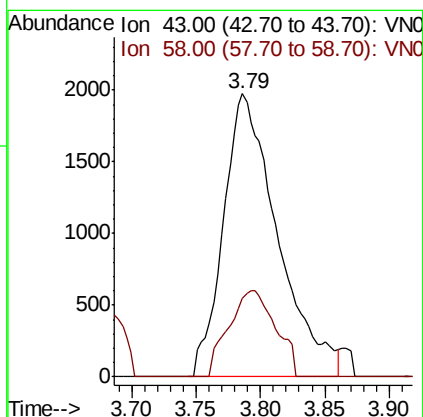
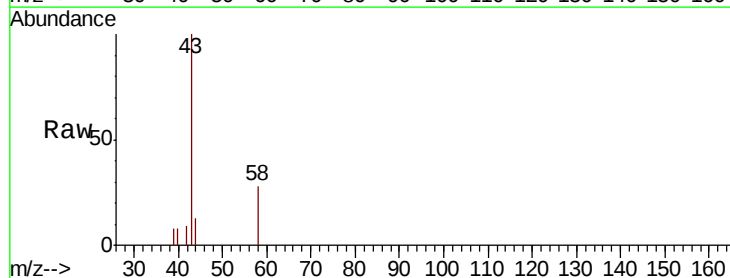
Instrument :
MSVOA_N
ClientSampled :

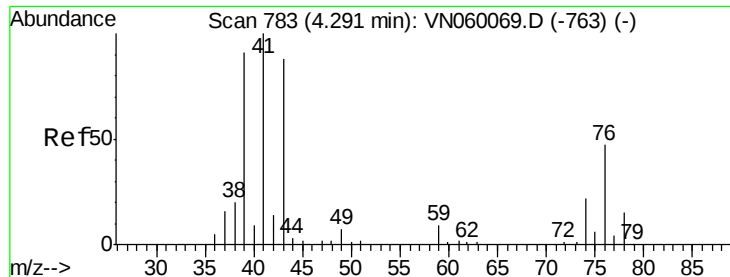
Tot Ion: 59 Resp: 343
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 6.353 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 43 Resp: 5776
Ion Ratio Lower Upper
43 100
58 27.6 25.2 37.8

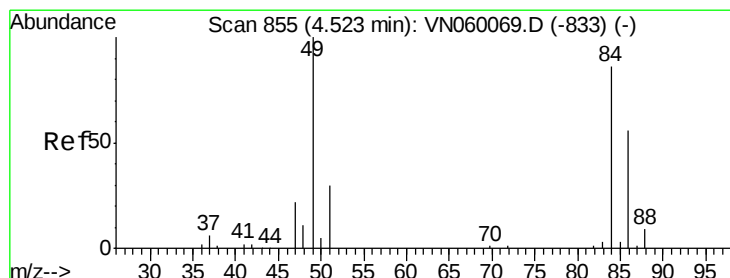
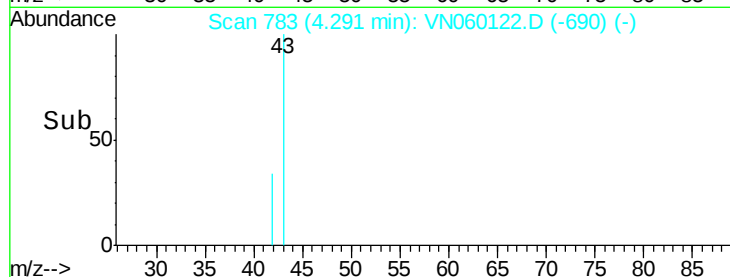
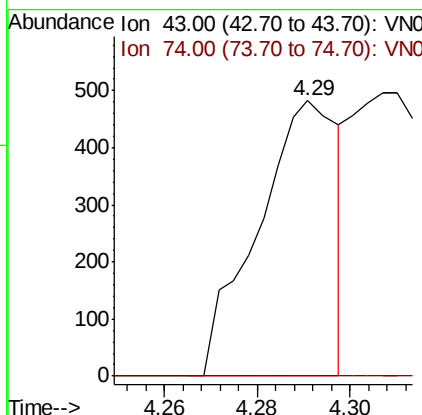
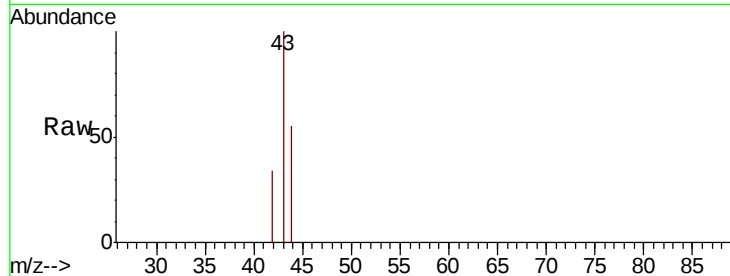




#18
Methyl Acetate
Concen: 0.339 ug/l
RT: 4.29 min Scan# 783
Delta R.T. -0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

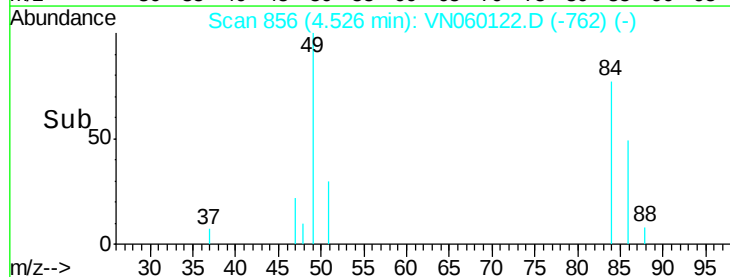
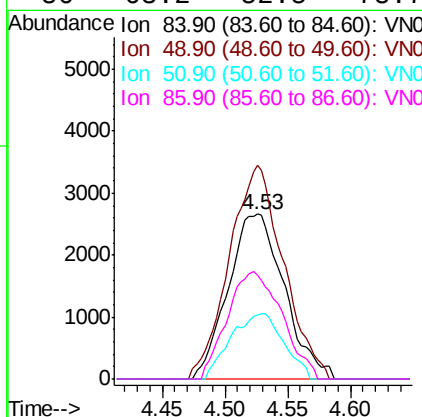
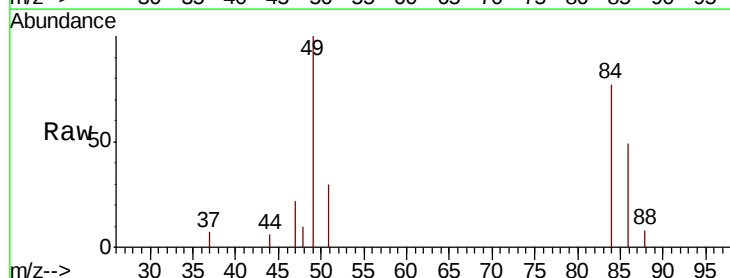
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MSVOA_N
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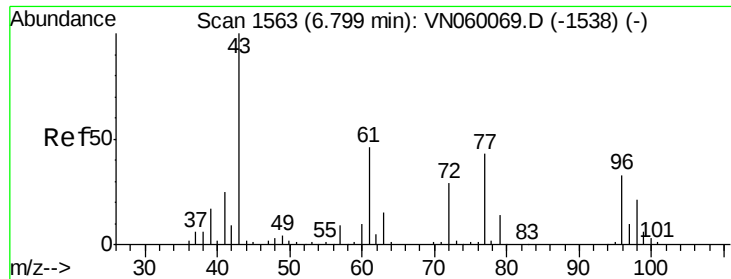
Tot Ion: 43 Resp: 579
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 4.565 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 84 Resp: 8281
Ion Ratio Lower Upper
84 100
49 129.4 93.4 140.0
51 39.1 28.4 42.6
86 63.2 52.5 78.7

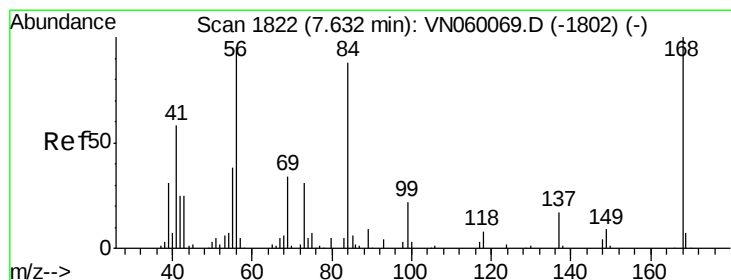
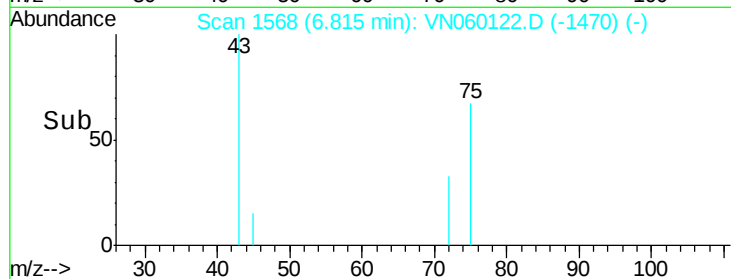
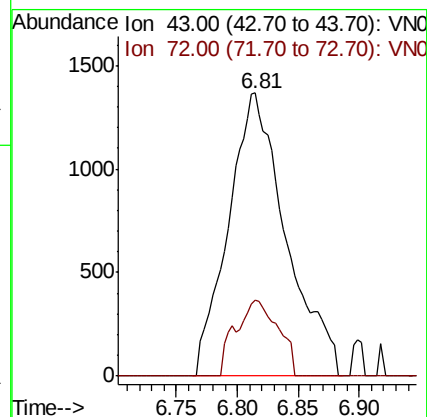
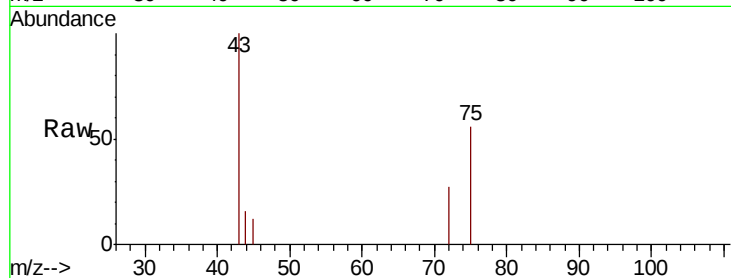




#25
2-Butanone
Concen: 3.922 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

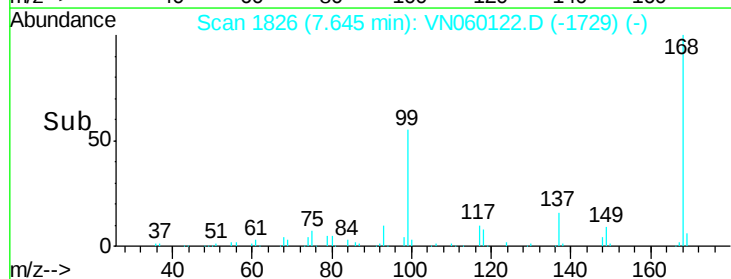
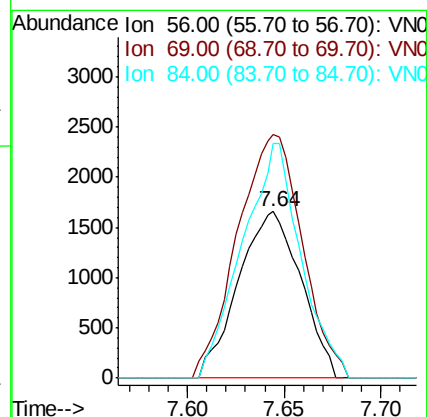
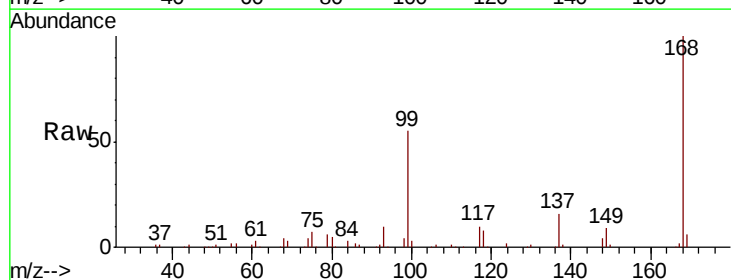
Instrument :
MSVOA_N
ClientSampleId :

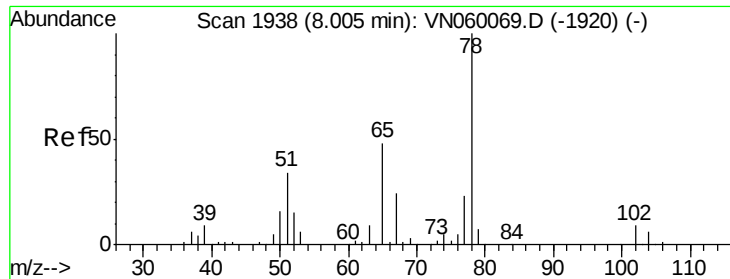
Tot Ion: 43 Resp: 4484
Ion Ratio Lower Upper
43 100
72 27.0 23.3 34.9



#31
Cyclohexane
Concen: 1.262 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 56 Resp: 3719
Ion Ratio Lower Upper
56 100
69 146.3 28.3 42.5#
84 141.0 72.6 108.8#

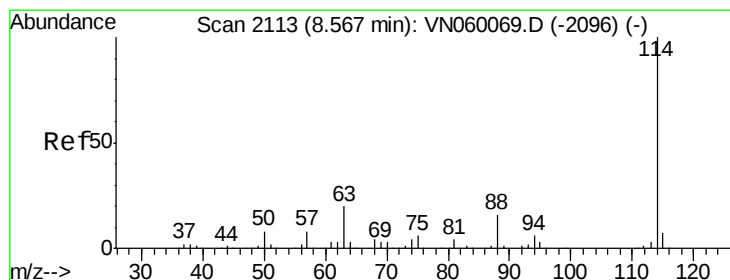
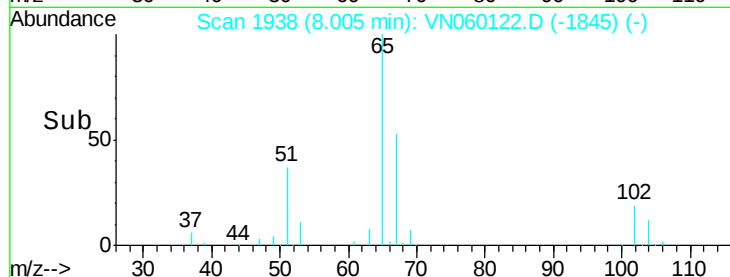
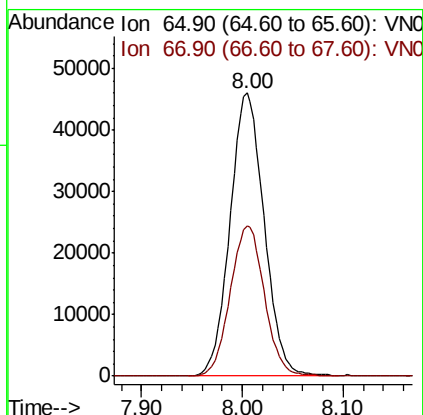
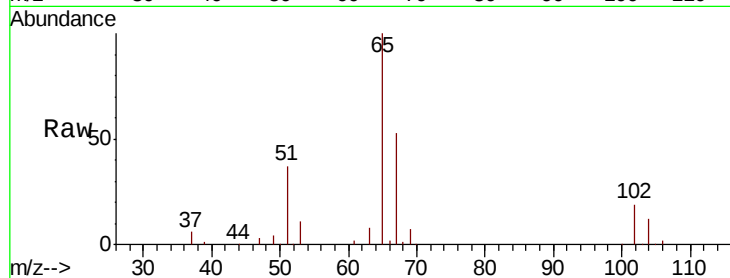




#33
 1,2-Dichloroethane-d4
 Concen: 51.989 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

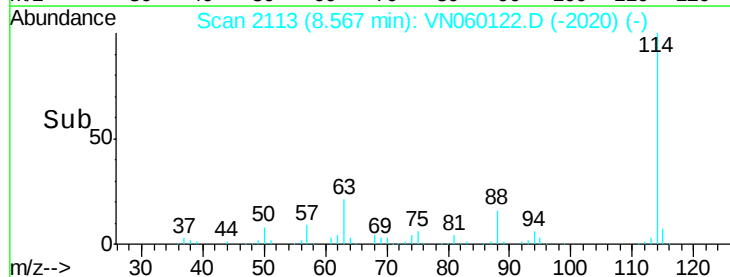
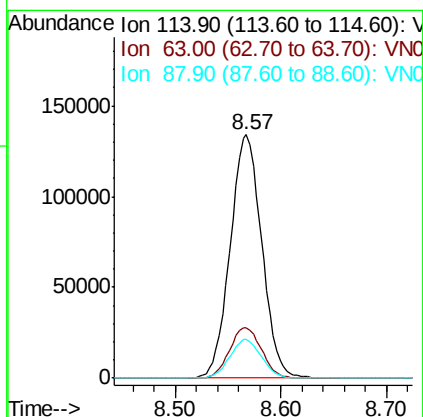
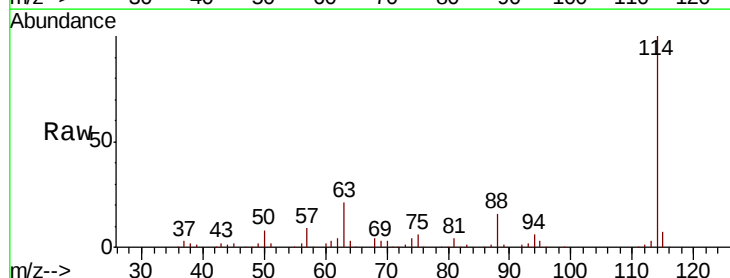
Instrument :
 MSVOA_N
 ClientSampled :

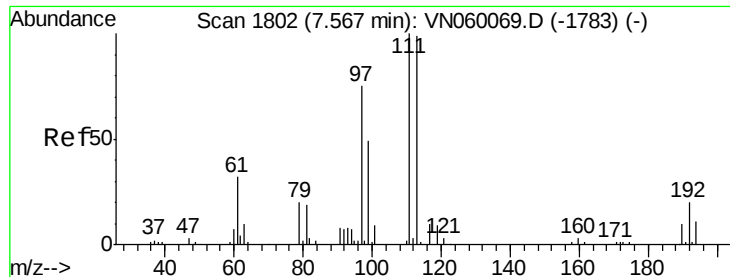
Tot Ion: 65 Resp: 108360
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

Tgt Ion: 114 Resp: 277987
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.0
 88 15.8 0.0 31.6

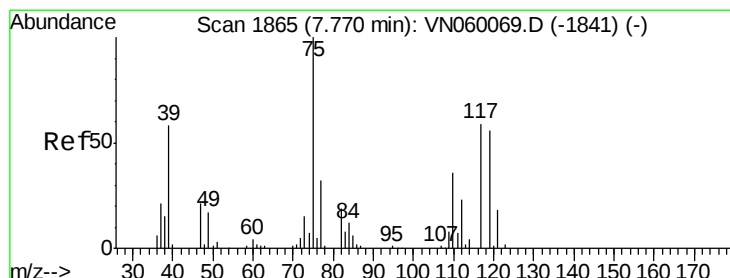
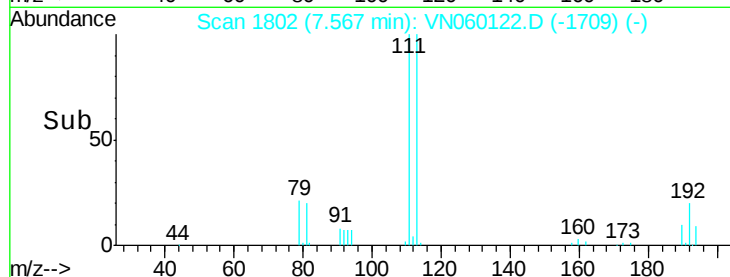
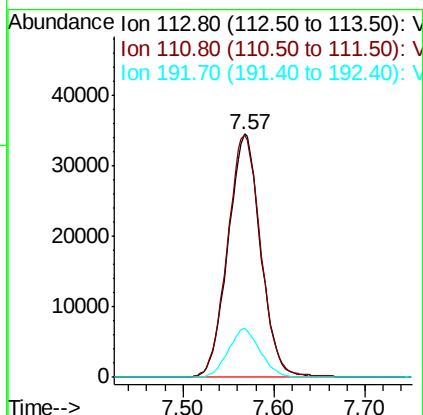
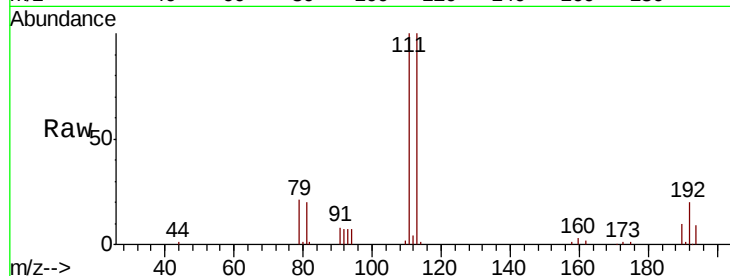




#35
 Dibromofluoromethane
 Concen: 50.178 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

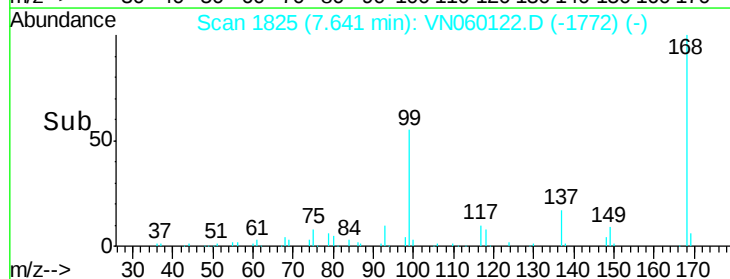
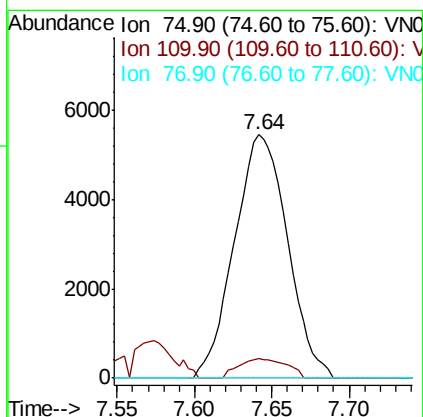
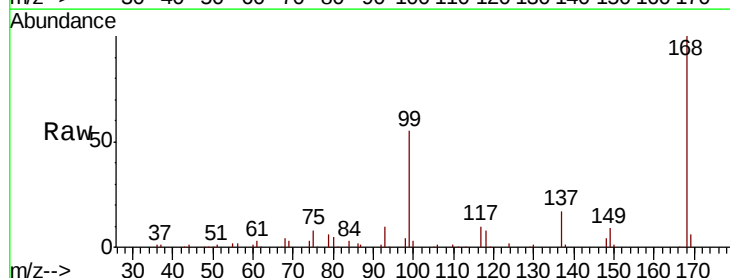
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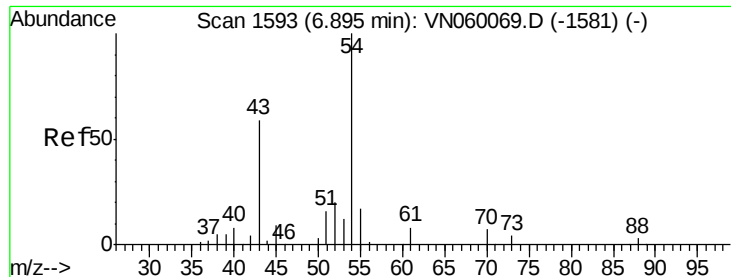
Tot Ion:113 Resp: 85744
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.4 122.2
 192 19.6 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.055 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

Tgt Ion: 75 Resp: 13017
 Ion Ratio Lower Upper
 75 100
 110 7.1 18.1 54.3#
 77 0.0 25.1 37.7#

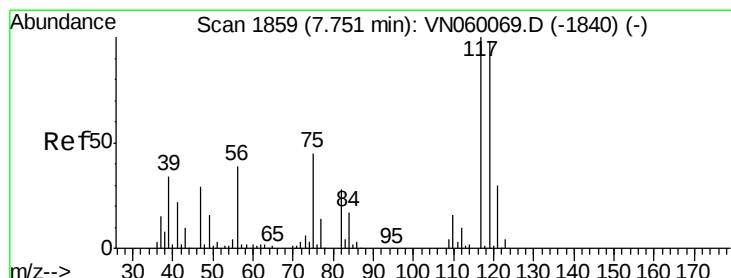
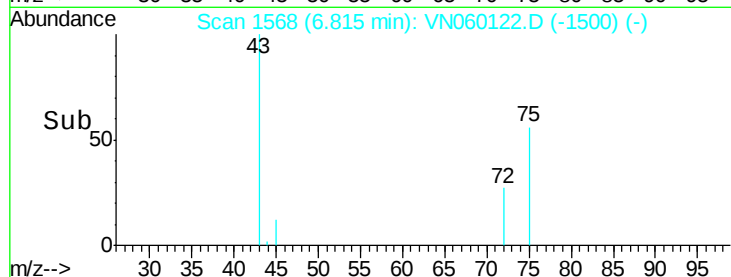
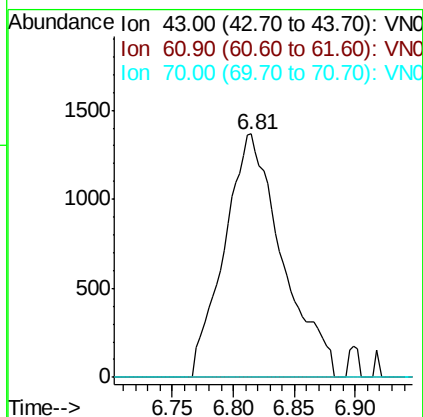
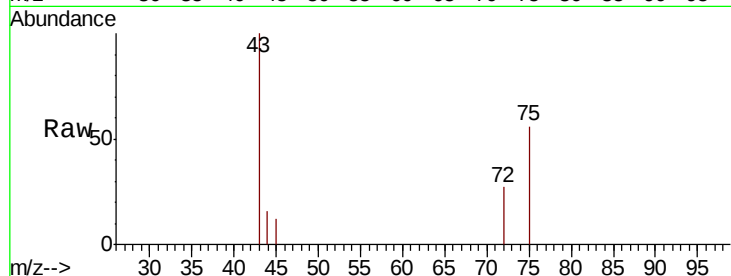




#37
Ethyl Acetate
Concen: 1.927 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. -0.08 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

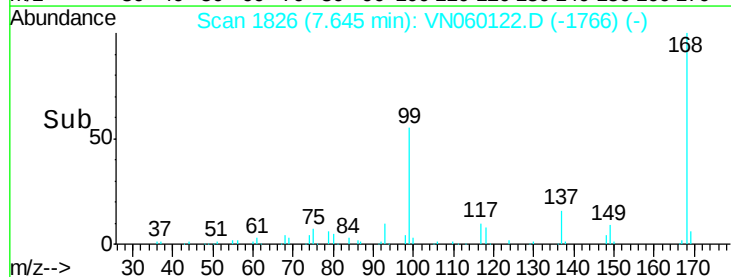
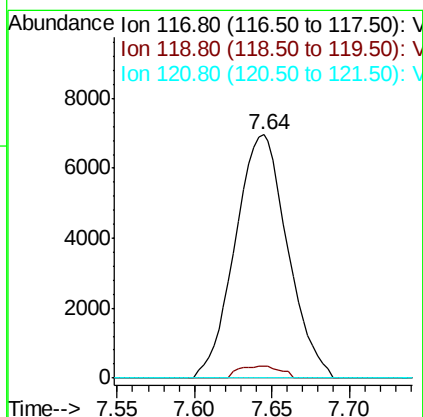
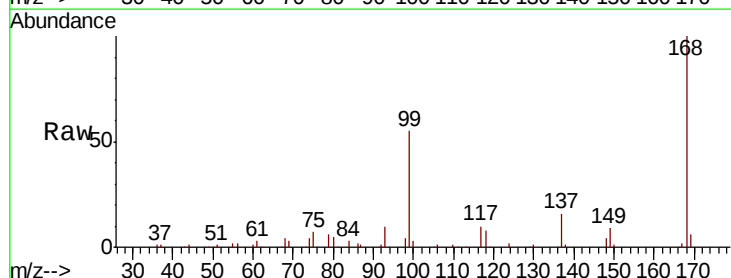
Instrument :
MSVOA_N
ClientSampled :

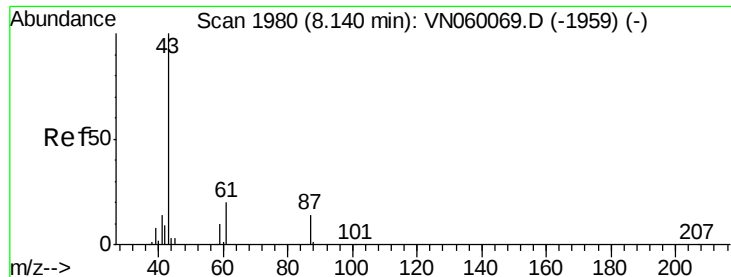
Tot Ion: 43 Resp: 4484
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.857 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 117 Resp: 16377
Ion Ratio Lower Upper
117 100
119 5.1 78.2 117.4#
121 0.0 24.2 36.2#



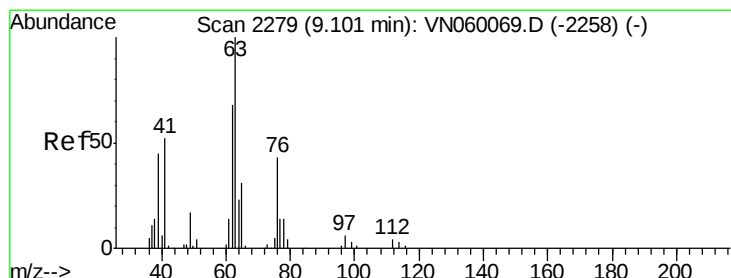
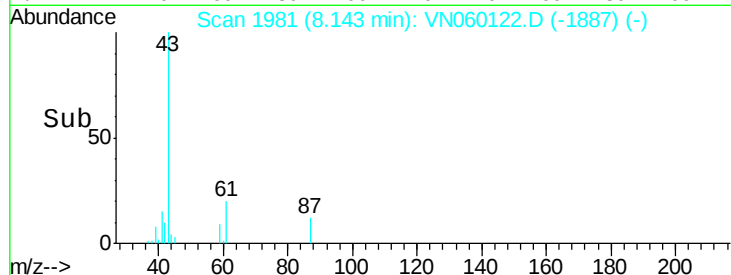
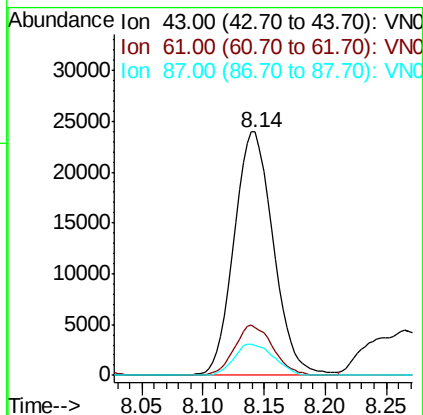
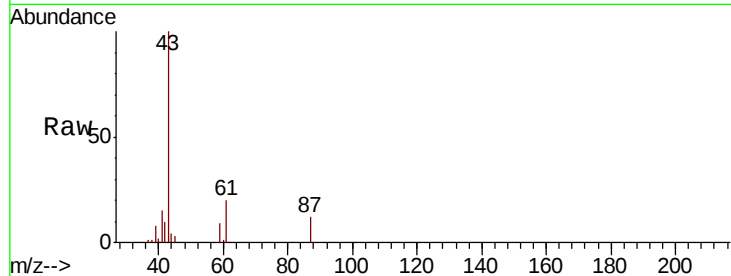


#43

Isopropyl Acetate
 Concen: 13.475 ug/l
 RT: 8.14 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

Instrument :
 MSVOA_N
 ClientSampleId :

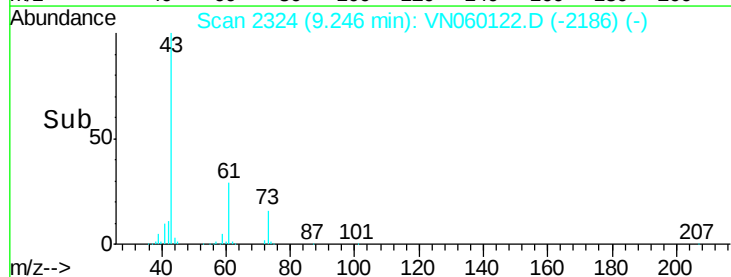
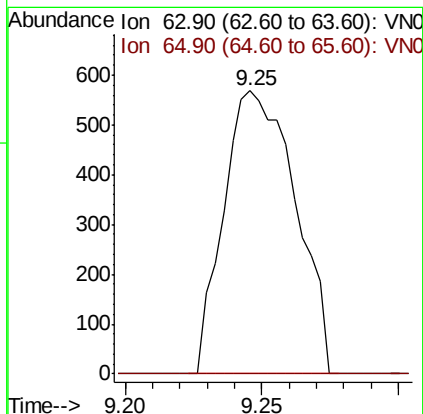
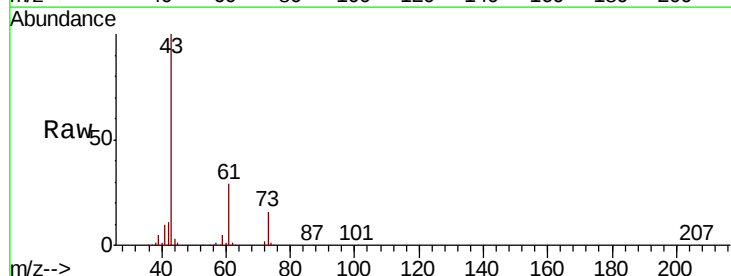
Tot Ion	43	Resp	53604
Ion Ratio	100	Lower	Upper
61	20.1	21.8	32.6#
87	12.8	11.4	17.2

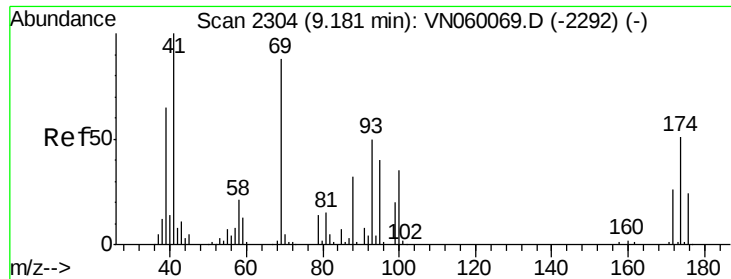


#45

1,2-Dichloropropane
 Concen: 0.548 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060122.D
 Acq: 17 Feb 2020 16:15

Tgt Ion	63	Resp	1037
Ion Ratio	100	Lower	Upper
65	0.0	25.0	37.4#

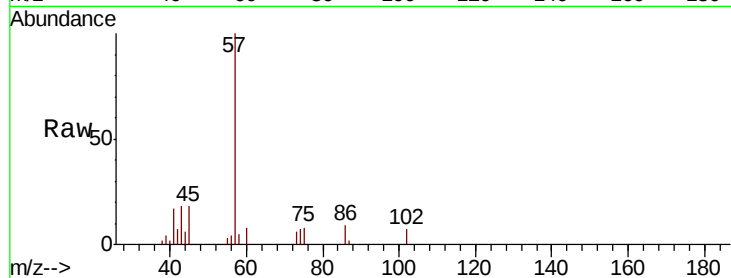




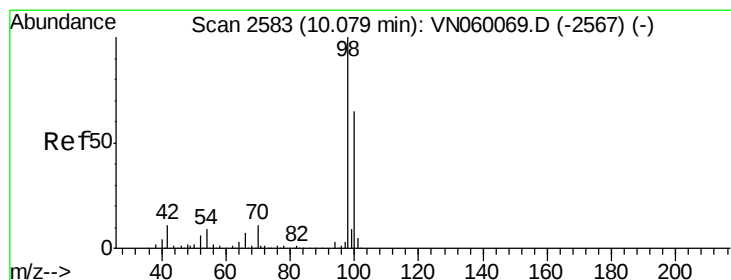
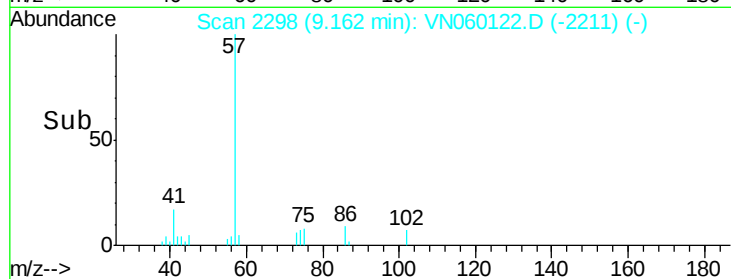
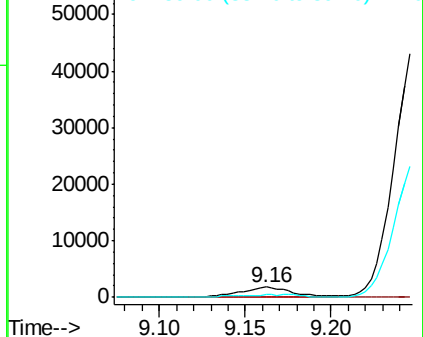
#48
Methyl methacrylate
Concen: 2.199 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3925
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

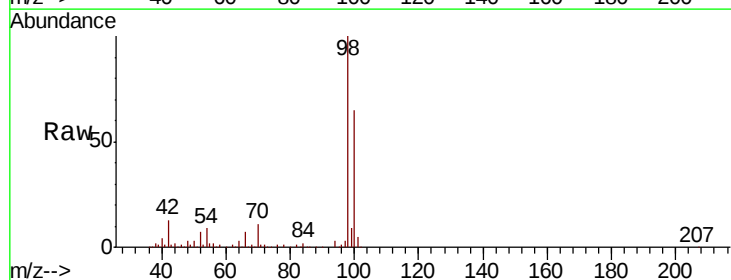


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

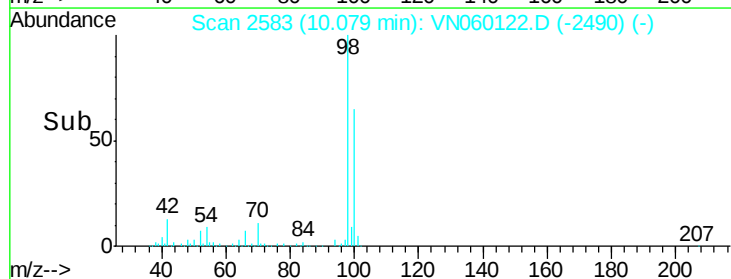
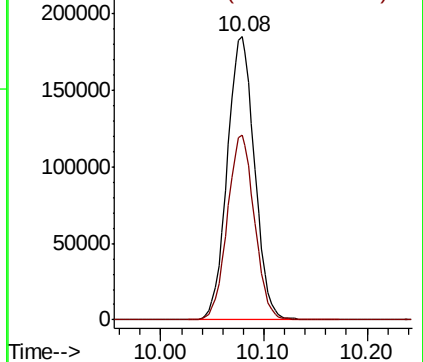


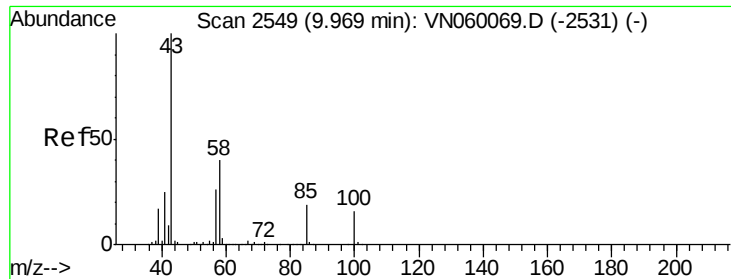
#50
Toluene-d8
Concen: 50.722 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 98 Resp: 341315
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.344 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

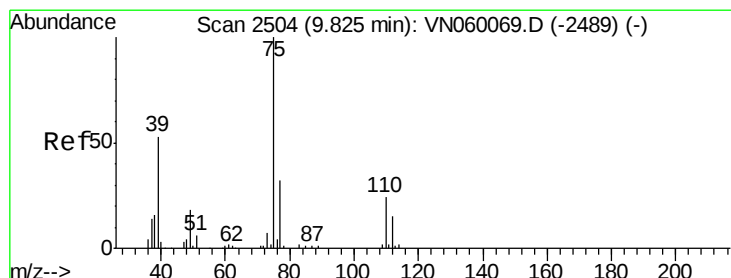
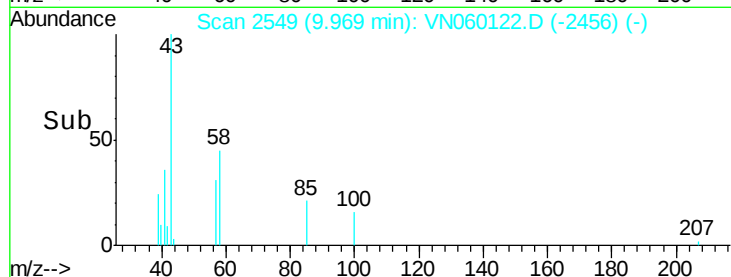
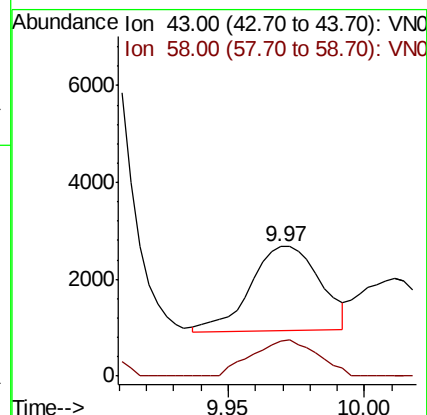
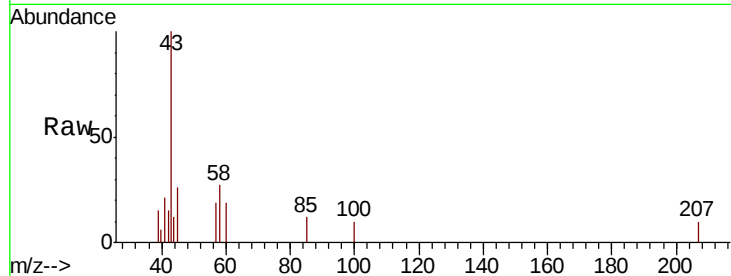
ClientSampled :

Tot Ion: 43 Resp: 3094

Ion Ratio Lower Upper

43 100

58 40.1 31.8 47.8



#54

cis-1,3-Dichloropropene

Concen: 7.262 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

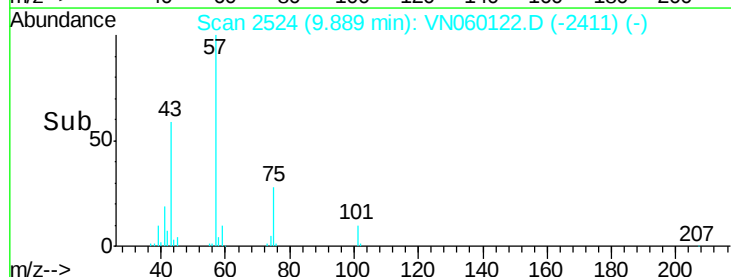
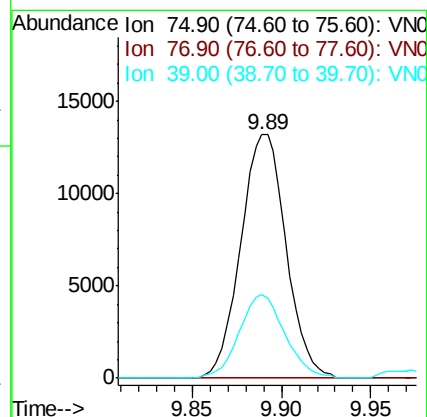
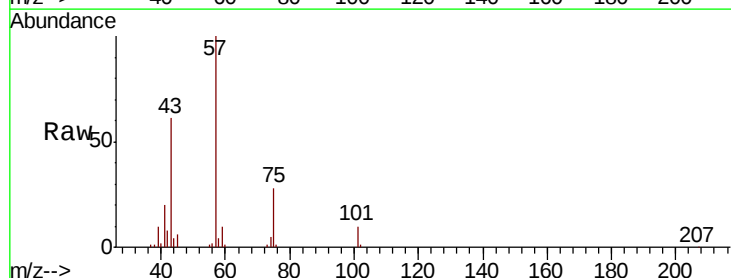
Tgt Ion: 75 Resp: 23450

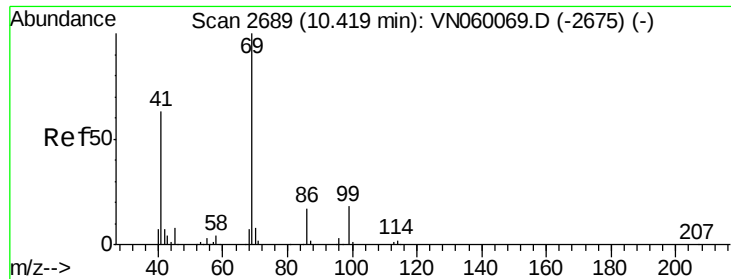
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 34.2 42.2 63.4#





#56

Ethyl methacrylate

Concen: 0.207 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

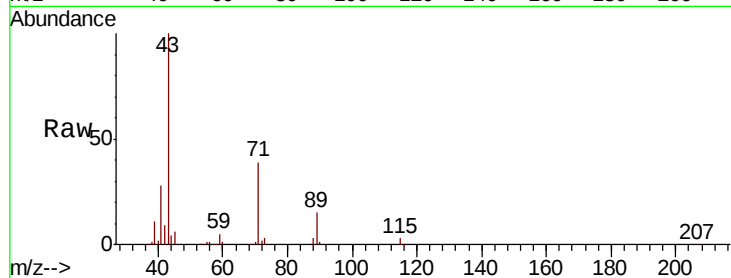
Tot Ion: 69.00 Resp: 559

Ion Ratio Lower Upper

69 100

41 8531.5 51.1 76.7#

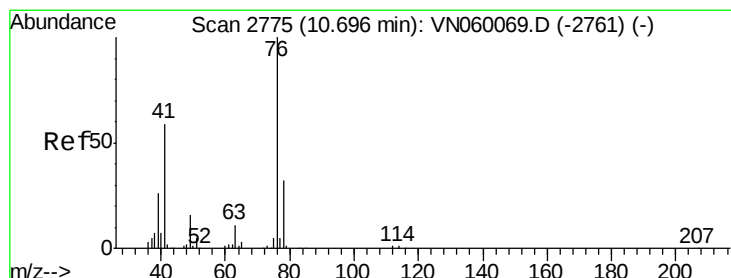
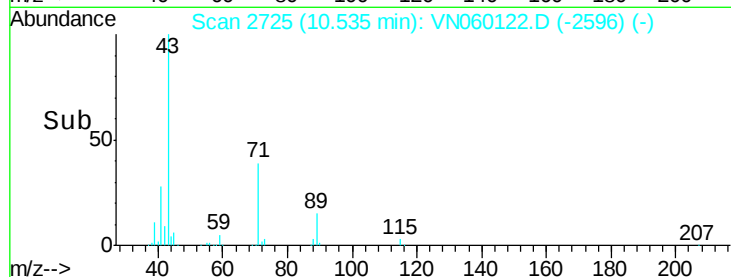
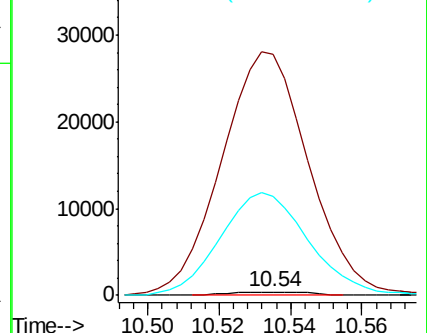
39 3660.3 33.8 50.8#



Abundance Ion 69.00 (68.70 to 69.70): VN060122.D (-2596) (-)

Ion 41.00 (40.70 to 41.70): VN060122.D (-2596) (-)

Ion 39.00 (38.70 to 39.70): VN060122.D (-2596) (-)



#57

1,3-Dichloropropane

Concen: 1.205 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060122.D

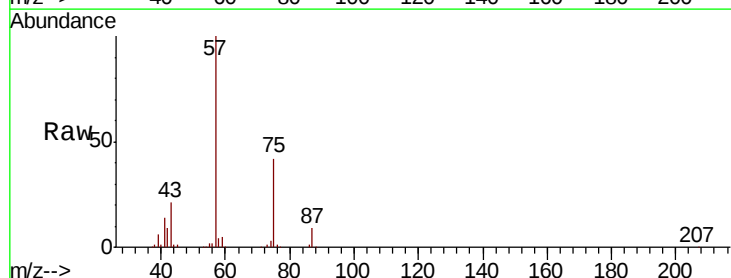
Acq: 17 Feb 2020 16:15

Tgt Ion: 76 Resp: 3799

Ion Ratio Lower Upper

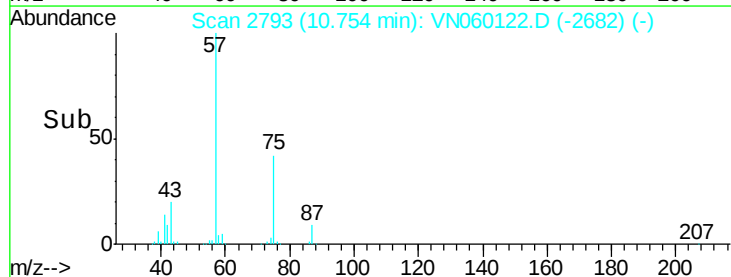
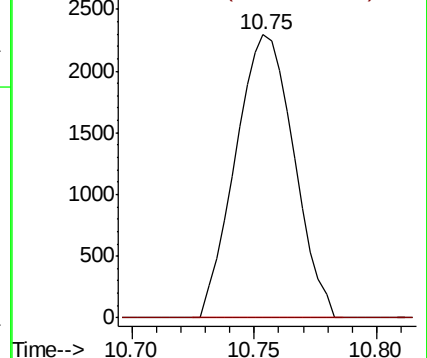
76 100

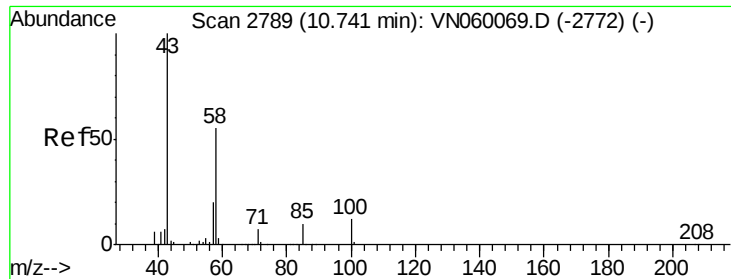
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN060122.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060122.D (-2682) (-)

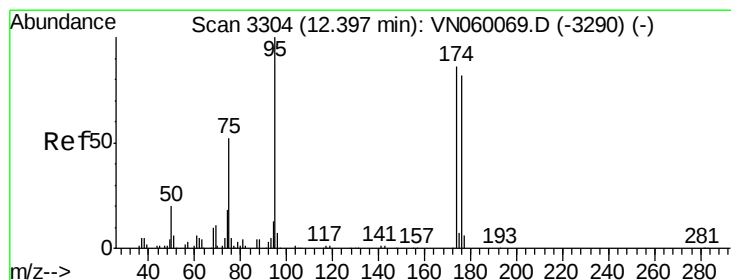
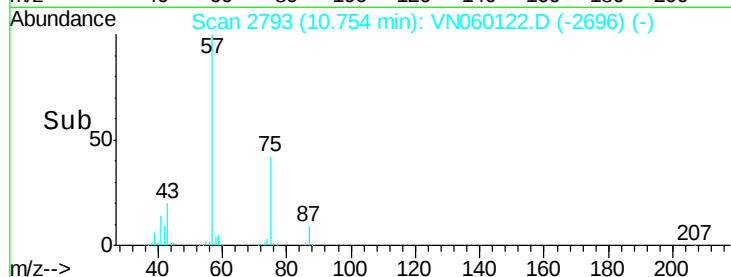
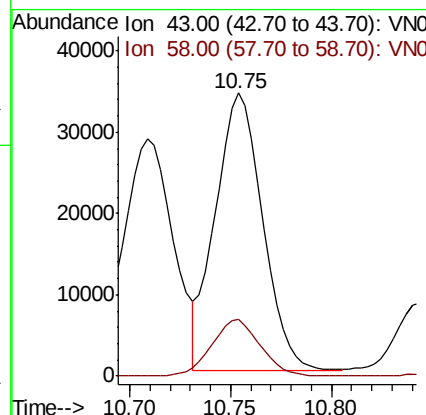
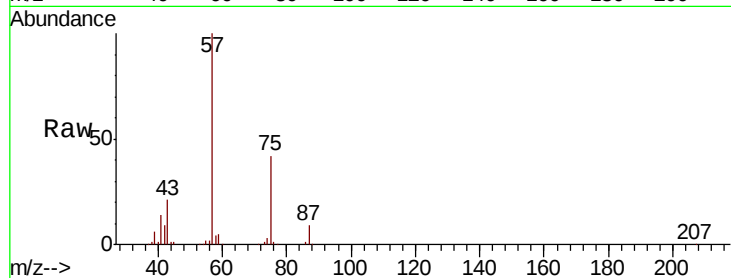




#59
2-Hexanone
Concen: 31.327 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

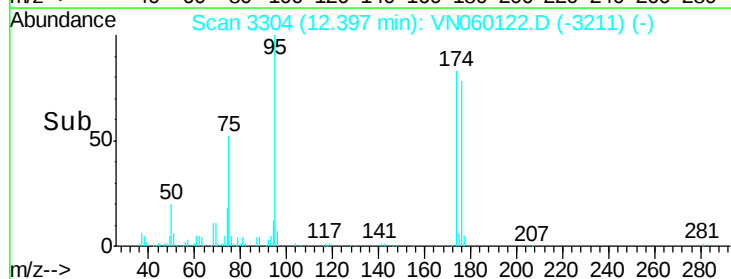
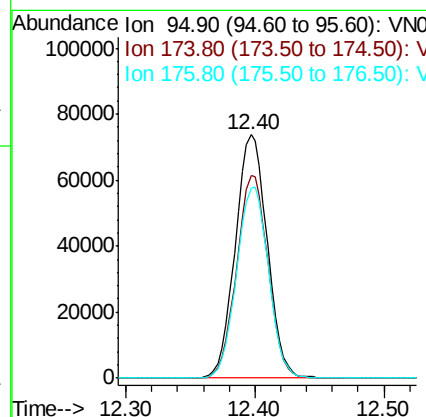
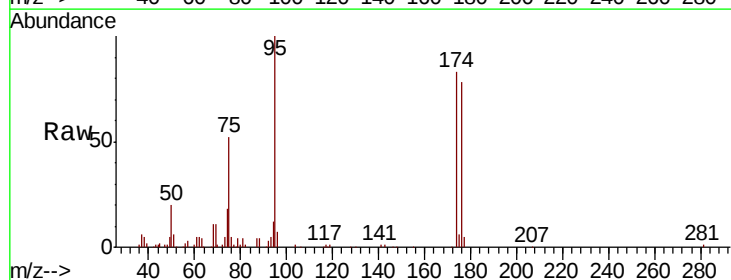
Instrument :
MSVOA_N
ClientSampleId :

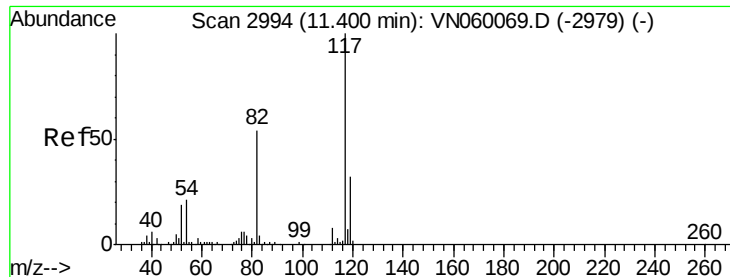
Tot Ion: 43 Resp: 55719
Ion Ratio Lower Upper
43 100
58 20.7 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 51.215 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion: 95 Resp: 126635
Ion Ratio Lower Upper
95 100
174 82.1 0.0 169.8
176 78.5 0.0 164.8

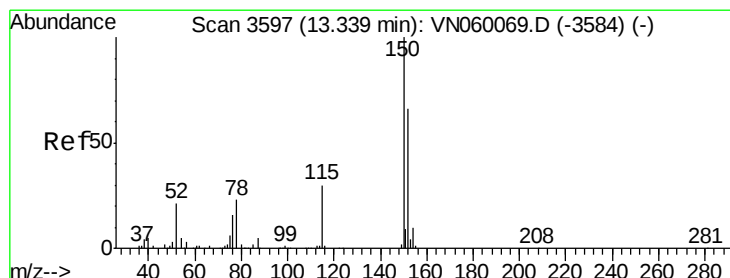
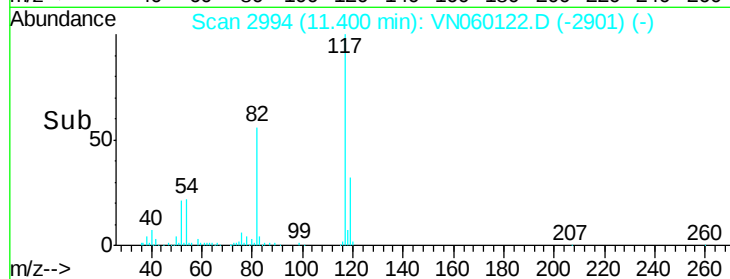
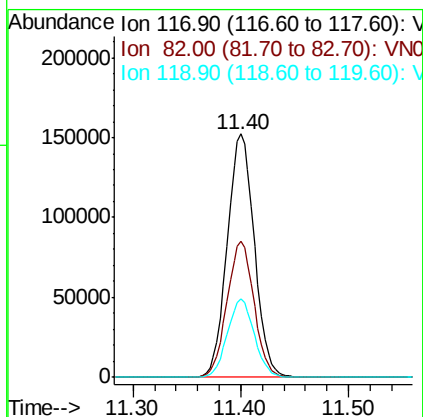
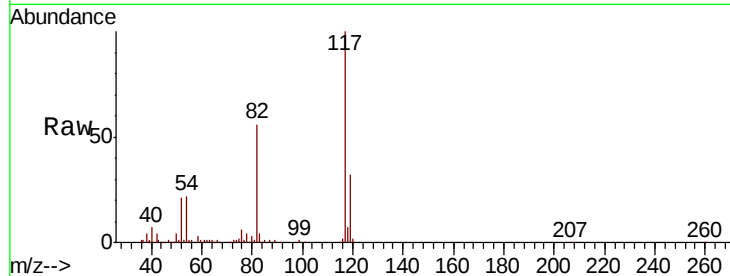




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

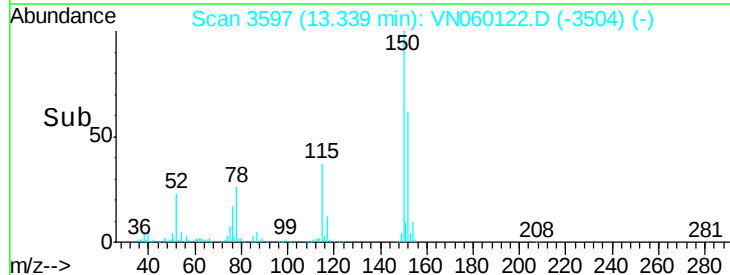
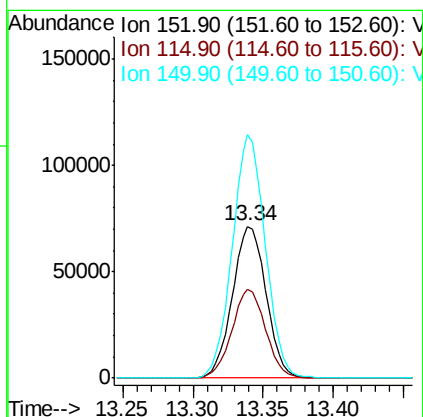
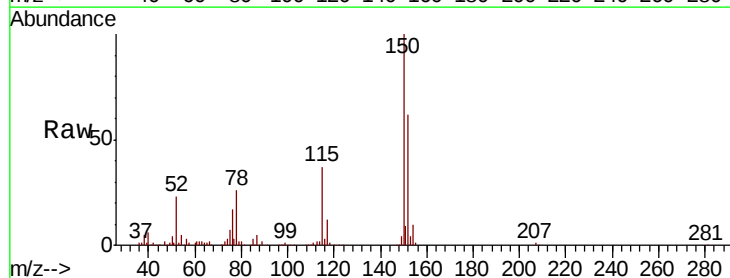
Instrument :
MSVOA_N
ClientSampleId :

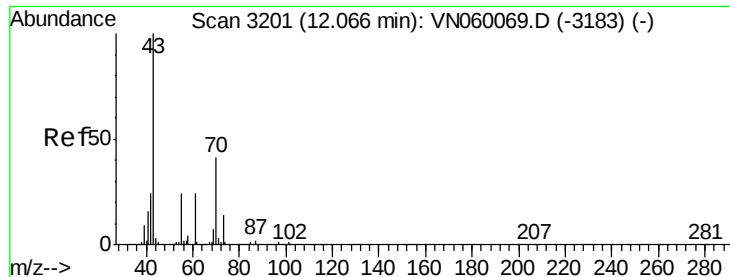
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.4	65.0
119	32.1	25.8	38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060122.D
Acq: 17 Feb 2020 16:15

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.9	86.8
150	157.1	0.0	342.4





#74

N-amvl acetate

Concen: 1.027 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.05 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3313

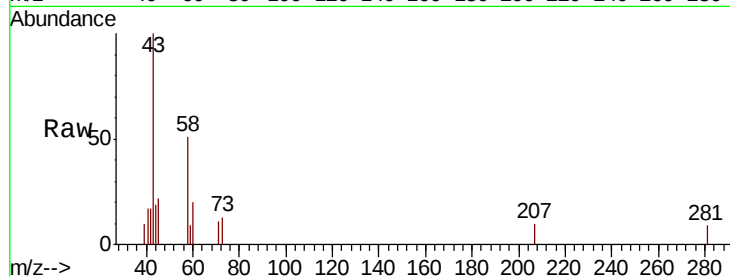
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

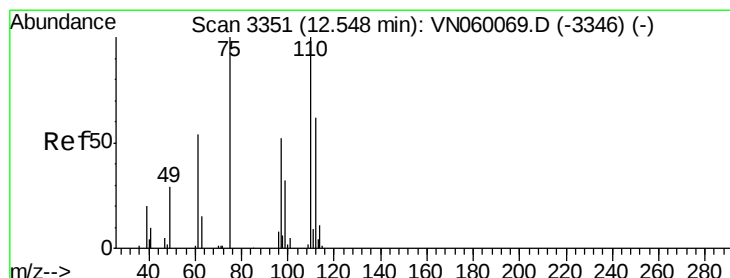
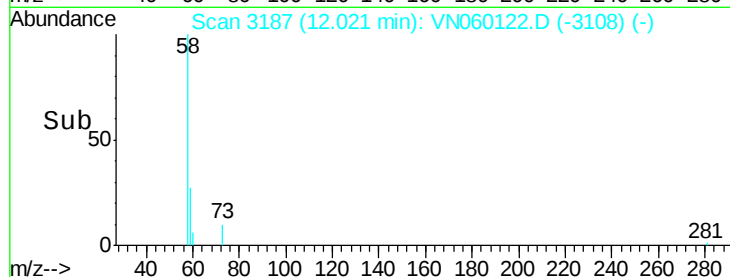
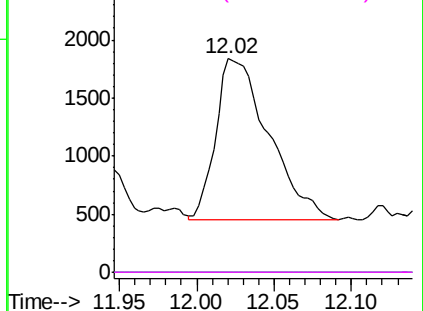


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.590 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060122.D

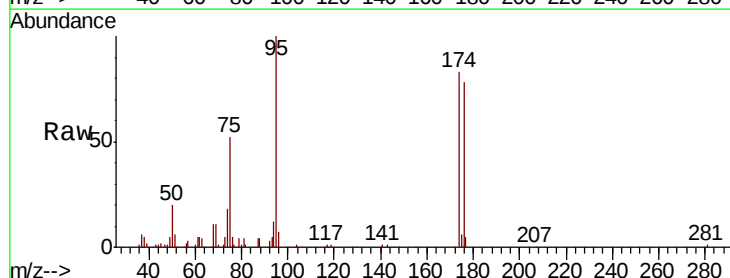
Acq: 17 Feb 2020 16:15

Tgt Ion: 75 Resp: 65525

Ion Ratio Lower Upper

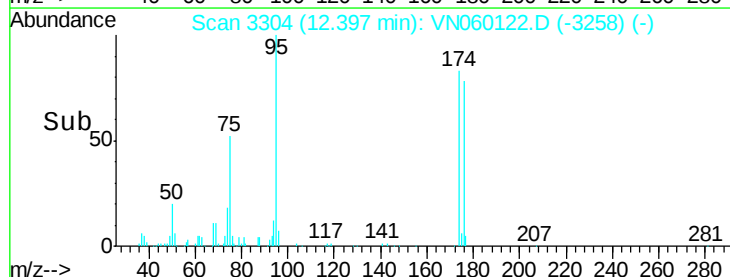
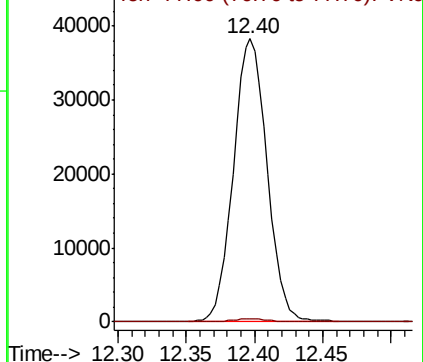
75 100

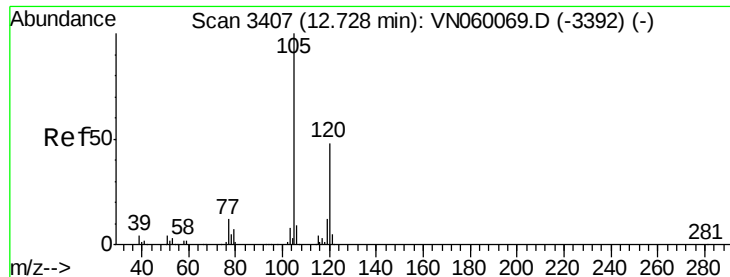
77 1.1 0.0 0.0#



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: 0.214 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

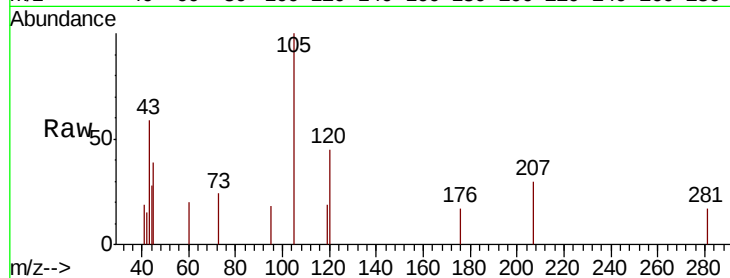
ClientSampled :

Tot Ion:105 Resp: 1589

Ion Ratio Lower Upper

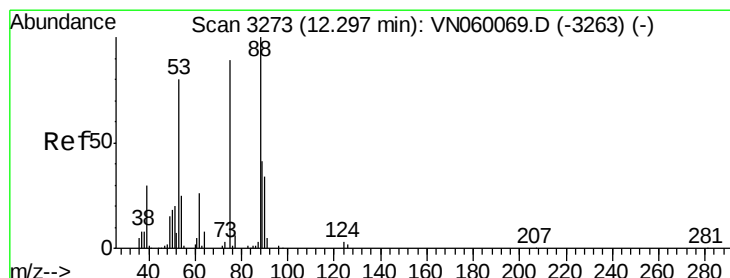
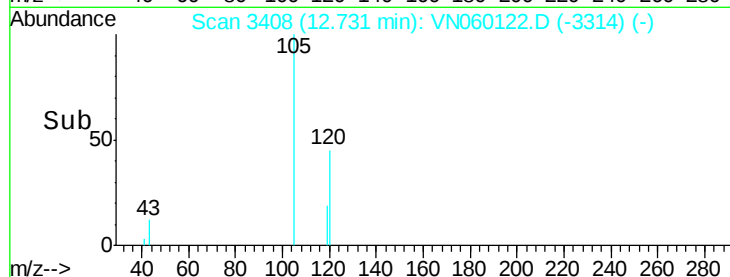
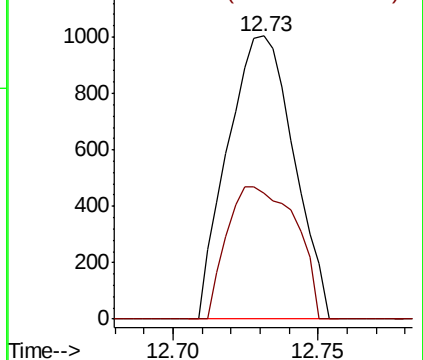
105 100

120 48.6 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 70.002 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

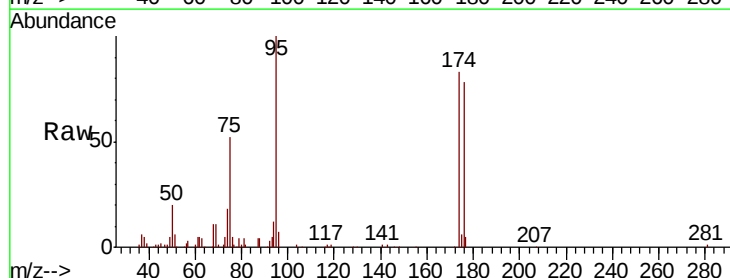
Tgt Ion: 75 Resp: 65525

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

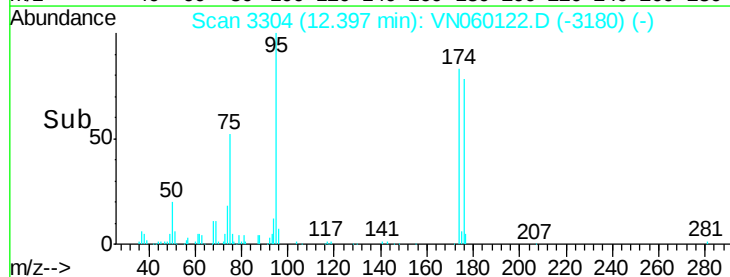
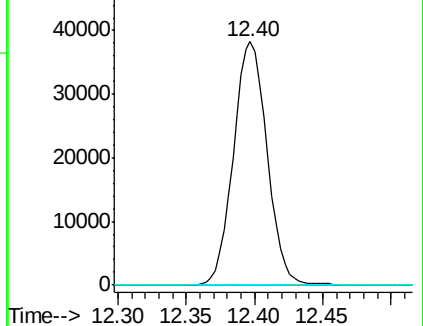
89 0.0 37.0 55.4#

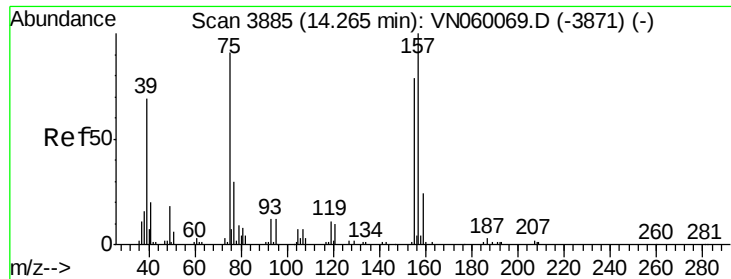


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VN060122.D

Acq: 17 Feb 2020 16:15

Instrument :

MSVOA_N

ClientSampleId :

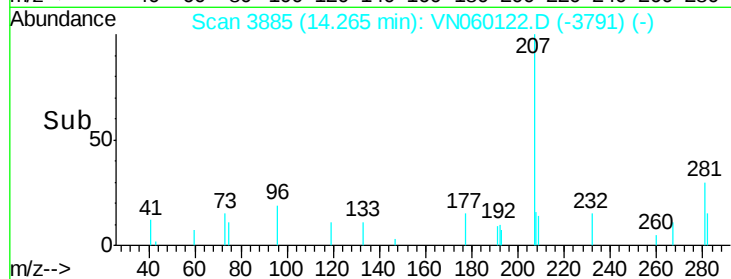
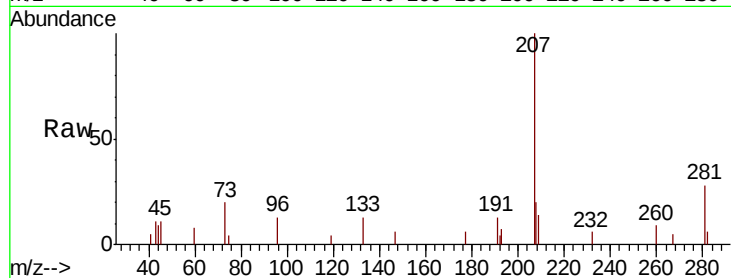
Tot Ion: 75 Resp: 94

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060122.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060122.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060122.D (-3791) (-)

Time-->

14.25 14.26 14.27 14.28

14.26

150

100

50

0