

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033120\
 Data File : VN060795.D
 Acq On : 31 Mar 2020 18:44
 Operator : JC/MD
 Sample : PB127897ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 08:25:11 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	209902	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	348950	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	332453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153495	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	135122	46.89	ug/l	0.00
Spiked Amount			Recovery	=	93.78%	
35) Dibromofluoromethane	7.56	113	103276	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
50) Toluene-d8	10.08	98	434536	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
62) 4-Bromofluorobenzene	12.40	95	164071	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	104	0.245	ug/l #	72
16) Acetone	3.79	43	6132	6.008	ug/l	99
18) Methyl Acetate	4.29	43	1925	0.670	ug/l #	74
20) Methylene Chloride	4.52	84	2053	0.818	ug/l	99
25) 2-Butanone	6.80	43	3089	1.870	ug/l	93
26) 2,2-Dichloropropane	6.78	77	924	0.255	ug/l #	53
31) Cyclohexane	7.64	56	4339	0.935	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16262	4.813	ug/l #	49
37) Ethyl Acetate	6.80	43	3089	0.846	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20058	6.623	ug/l #	16
43) Isopropyl Acetate	8.14	43	59908	9.950	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1107	0.411	ug/l #	43
48) Methyl methacrylate	9.16	41	3345	1.248	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4777	1.394	ug/l #	87
52) Toluene	10.14	92	1348	0.219	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	24863	5.835	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4168	1.013	ug/l #	42
59) 2-Hexanone	10.75	43	63636	25.783	ug/l #	52
71) Bromoform	12.39	173	238	1.796	ug/l #	1
74) N-amyl acetate	12.02	43	3439	0.646	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	84277	25.445	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4541	0.465	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	84277	65.351	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

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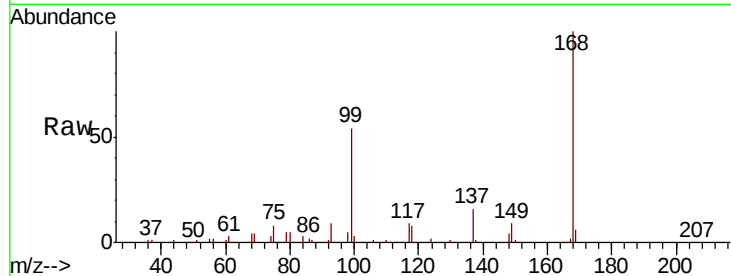
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 209902

Ion Ratio Lower Upper

168 100

99 54.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

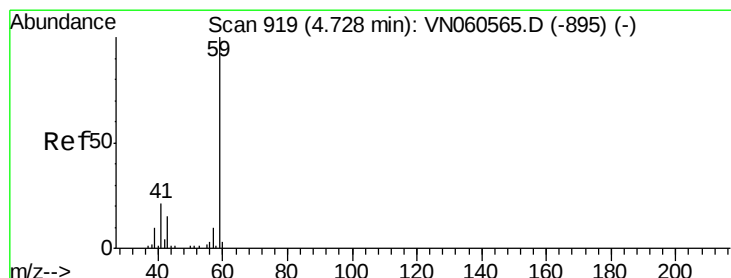
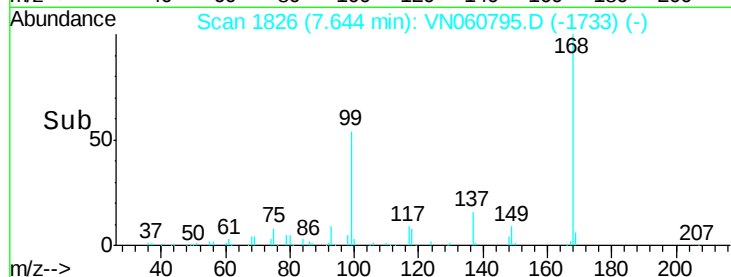
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.245 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060795.D

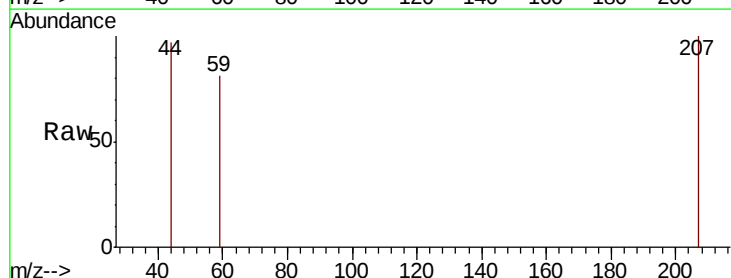
Acq: 31 Mar 2020 18:44

Tgt Ion: 59 Resp: 104

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

200

150

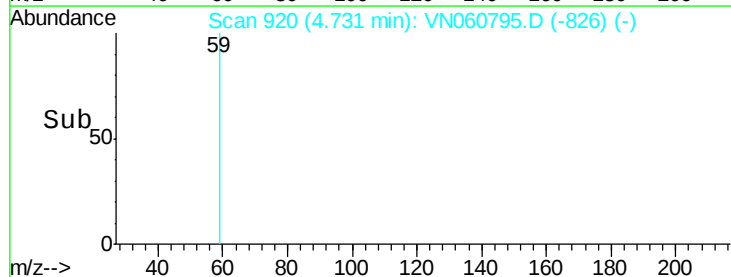
100

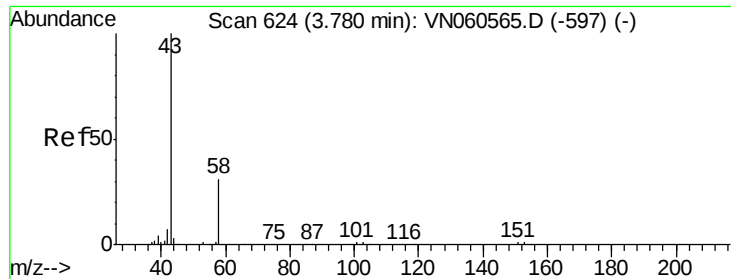
50

0

4.72 4.73 4.74

Time-->

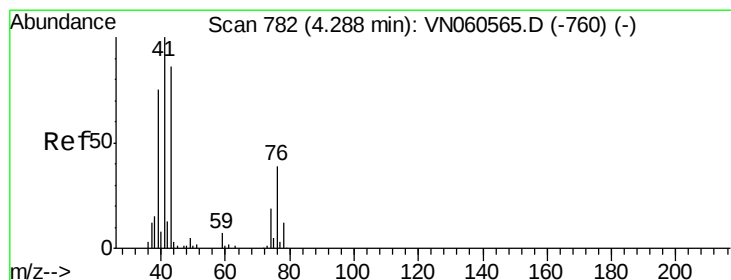
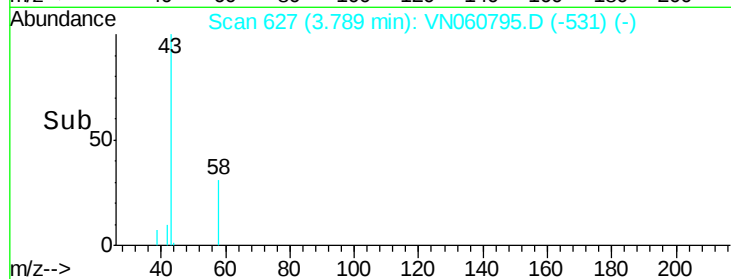
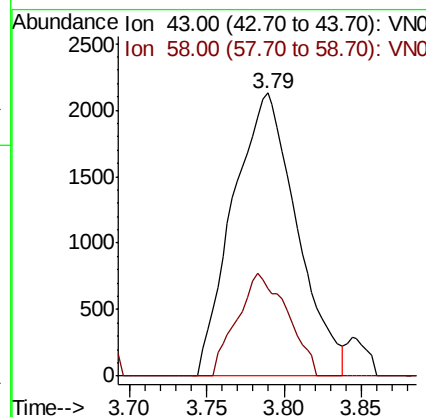
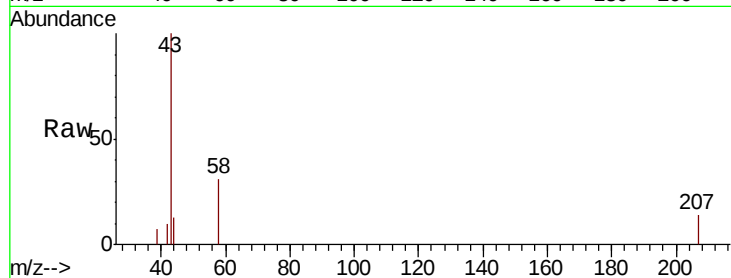




#16
Acetone
Concen: 6.008 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

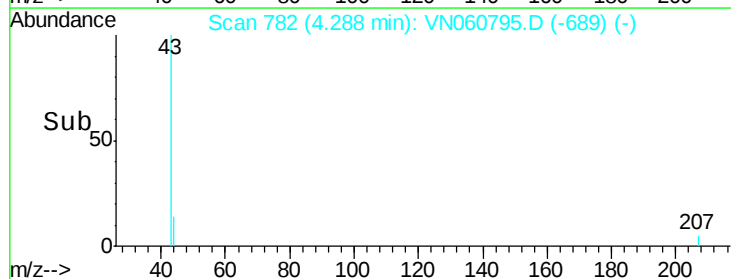
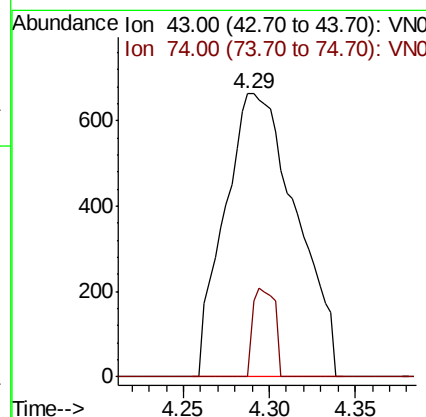
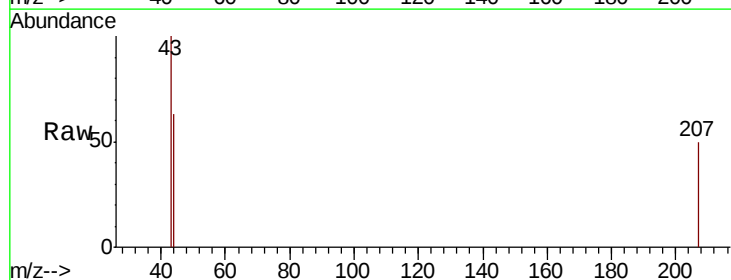
Instrument :
MSVOA_N
ClientSampleId :

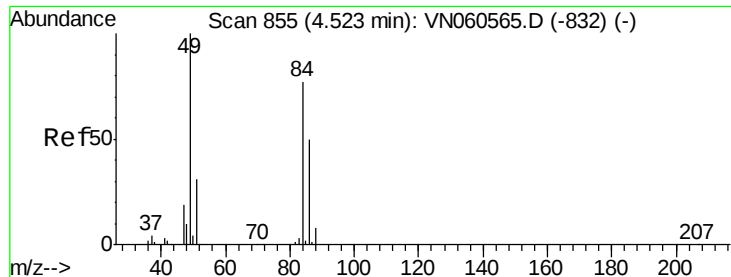
Tot Ion: 43 Resp: 6132
Ion Ratio Lower Upper
43 100
58 30.9 25.1 37.7



#18
Methyl Acetate
Concen: 0.670 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion: 43 Resp: 1925
Ion Ratio Lower Upper
43 100
74 9.6 17.5 26.3#

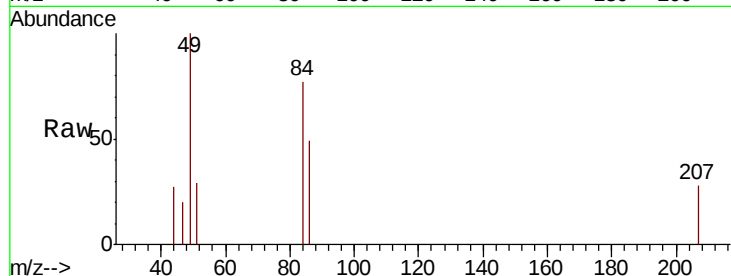




#20
Methylene Chloride
Concen: 0.818 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	2053
Ion	Ratio	Lower	Upper
84	100		
49	130.1	103.3	154.9
51	38.0	31.6	47.4
86	63.8	52.0	78.0



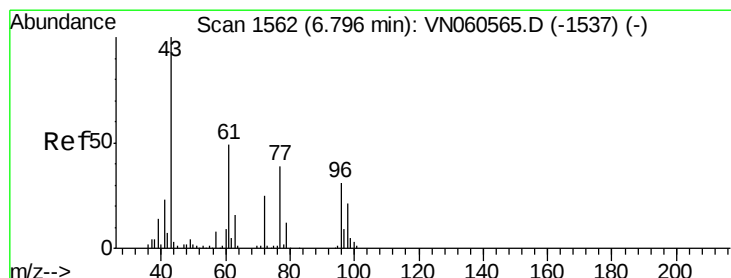
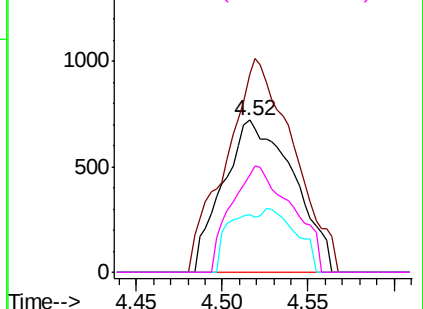
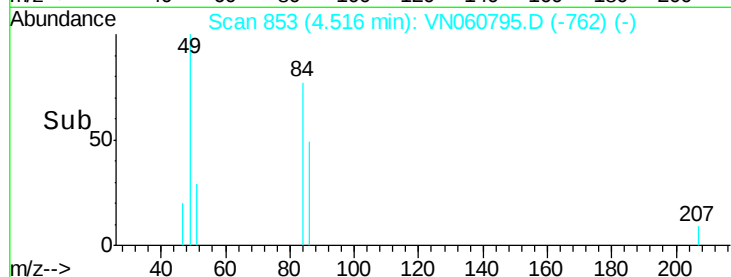
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

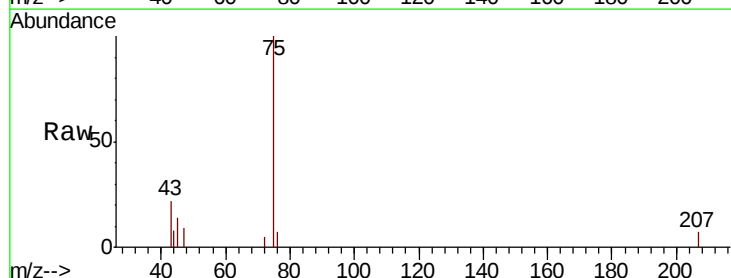
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 1.870 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

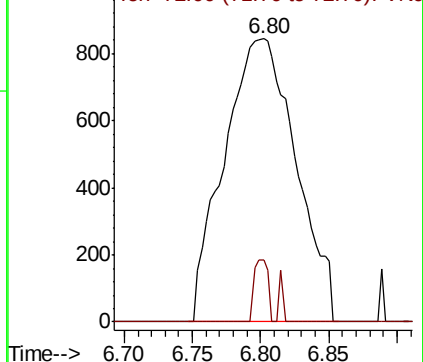
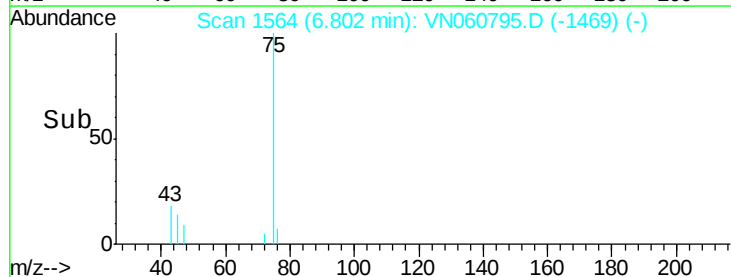
Tgt Ion:	43	Resp:	3089
Ion	Ratio	Lower	Upper
43	100		
72	21.9	20.4	30.6

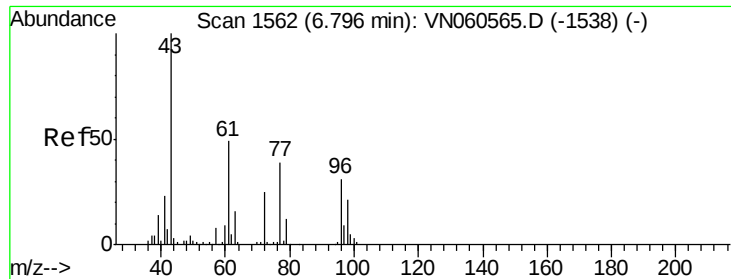


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

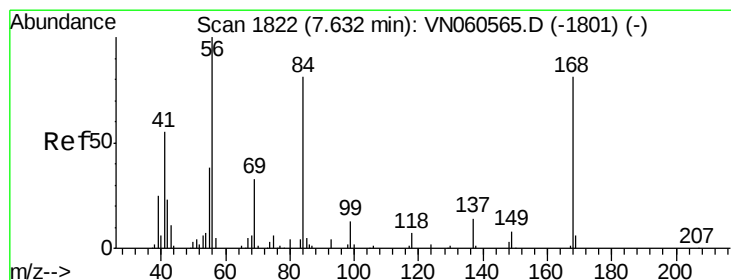
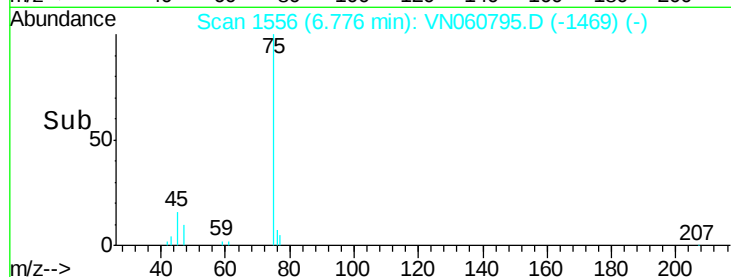
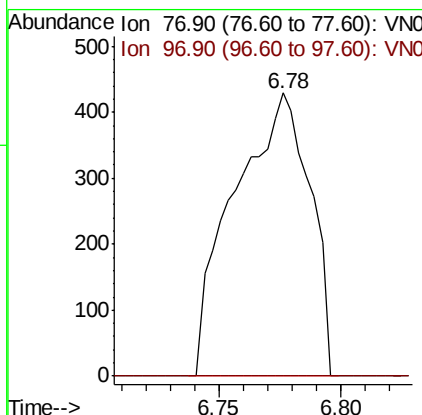
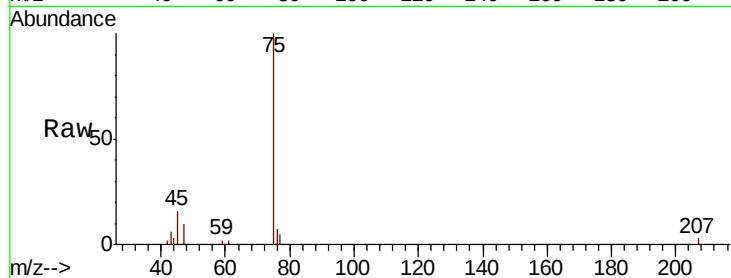




#26
2,2-Dichloropropane
Concen: 0.255 ug/l
RT: 6.78 min Scan# 1556
Delta R.T. -0.02 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

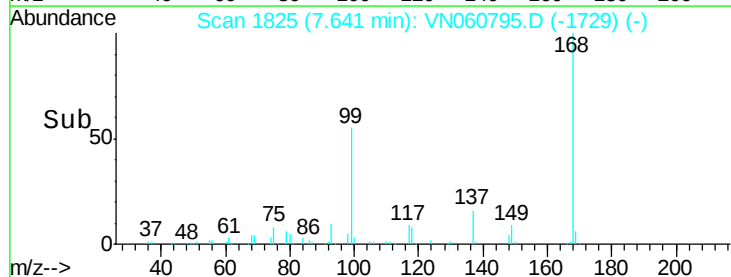
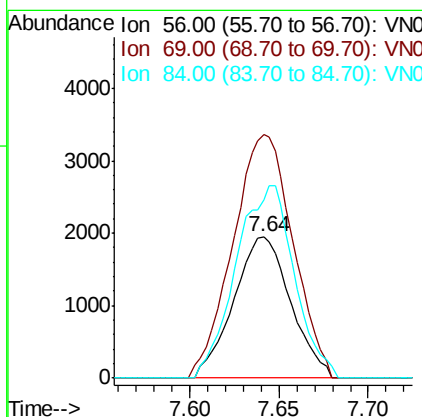
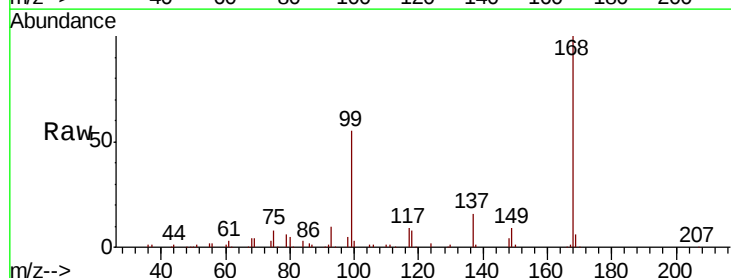
Instrument :
MSVOA_N
ClientSampleId :

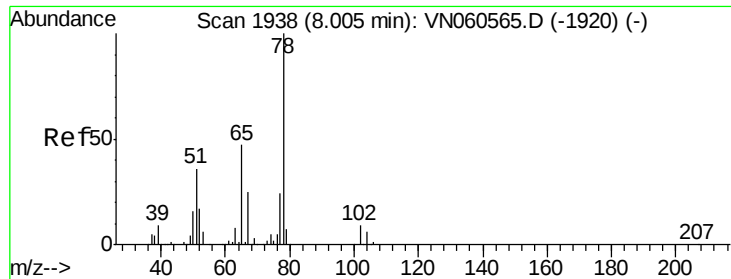
Tot Ion: 77 Resp: 924
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.1#



#31
Cyclohexane
Concen: 0.935 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion: 56 Resp: 4339
Ion Ratio Lower Upper
56 100
69 171.7 26.6 40.0#
84 125.5 64.3 96.5#

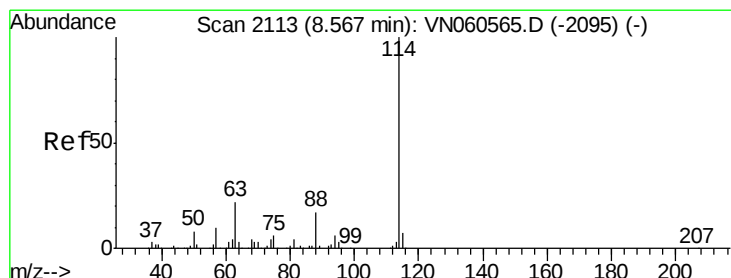
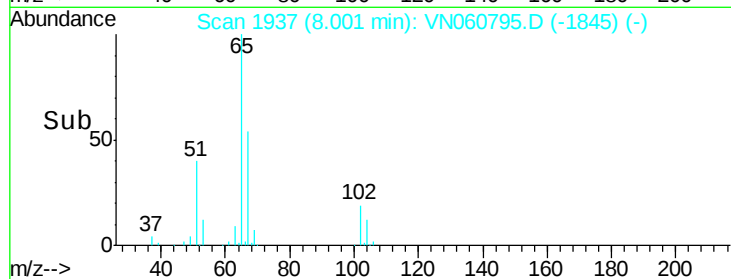
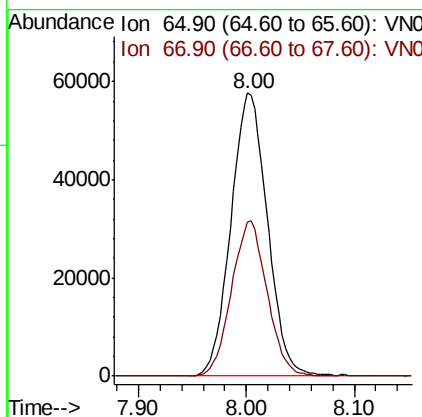
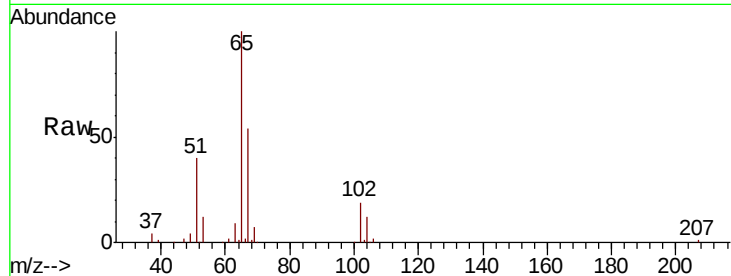




#33
 1,2-Dichloroethane-d4
 Concen: 46.893 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060795.D
 Acq: 31 Mar 2020 18:44

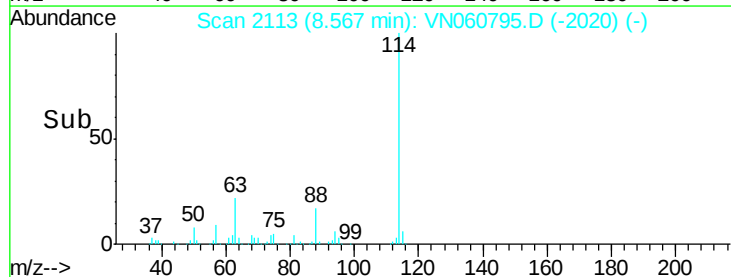
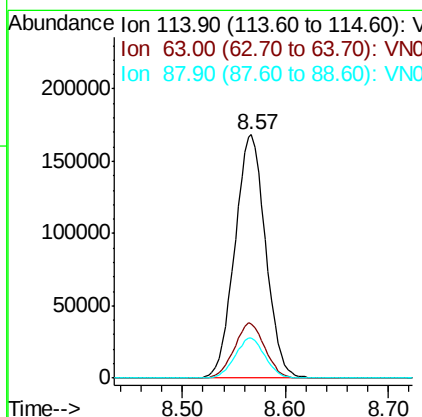
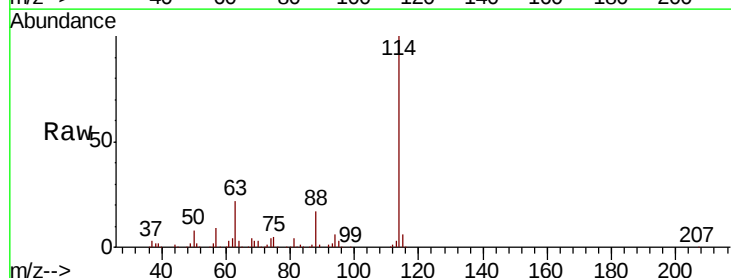
Instrument :
 MSVOA_N
 ClientSampleId :

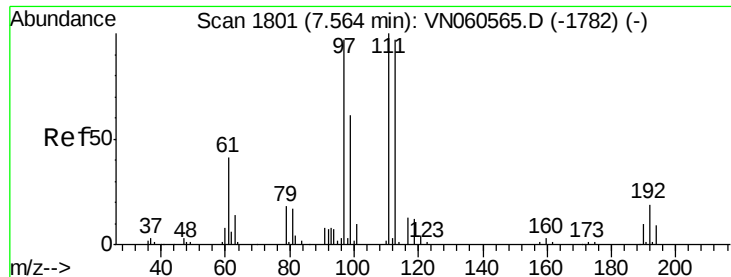
Tot Ion: 65 Resp: 135122
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060795.D
 Acq: 31 Mar 2020 18:44

Tgt Ion: 114 Resp: 348950
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.8
 88 16.5 0.0 33.0

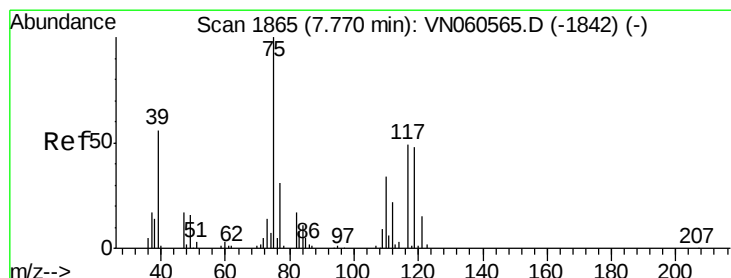
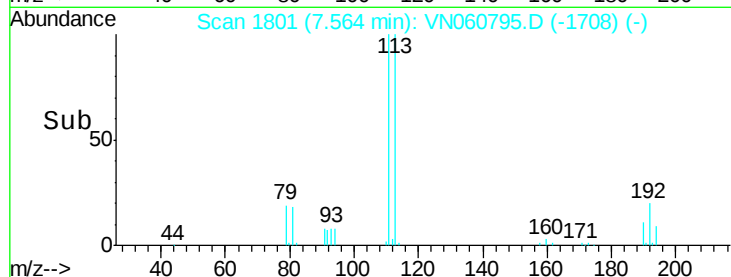
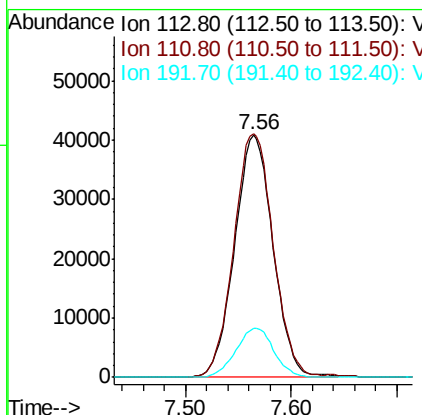
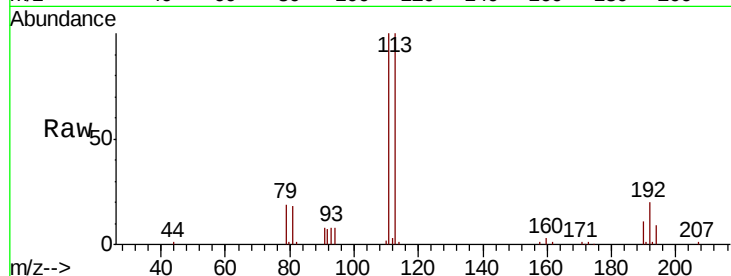




#35
 Dibromofluoromethane
 Concen: 48.946 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060795.D
 Acq: 31 Mar 2020 18:44

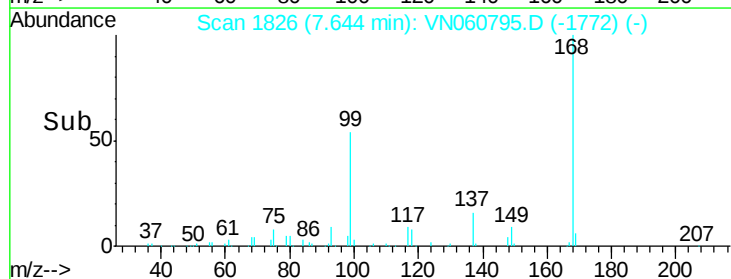
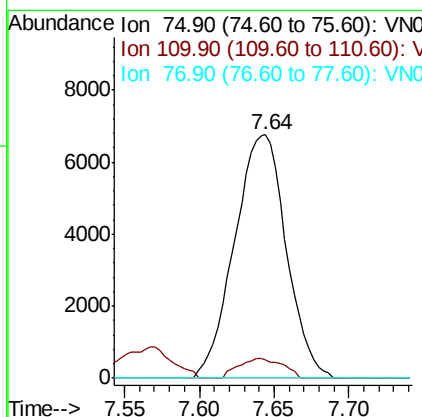
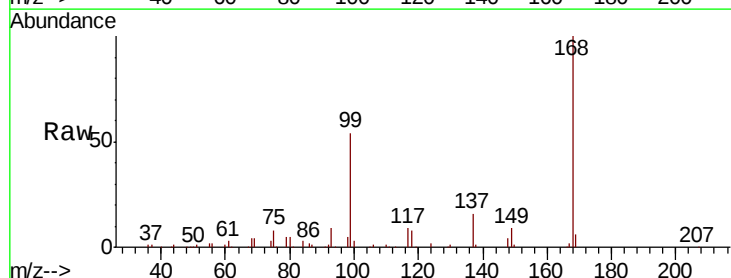
Instrument :
 MSVOA_N
 ClientSampleId :

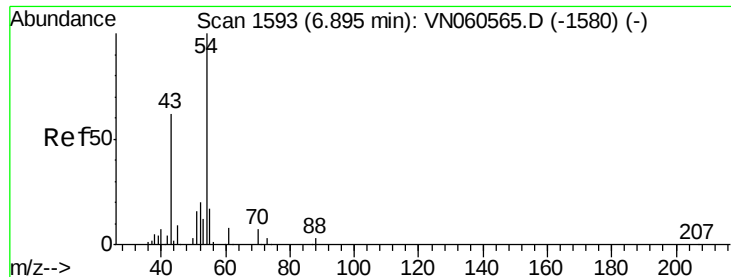
Tot Ion:113 Resp: 103276
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.9 124.3
 192 20.0 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.813 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060795.D
 Acq: 31 Mar 2020 18:44

Tgt Ion: 75 Resp: 16262
 Ion Ratio Lower Upper
 75 100
 110 6.9 16.9 50.6#
 77 0.0 24.6 36.8#

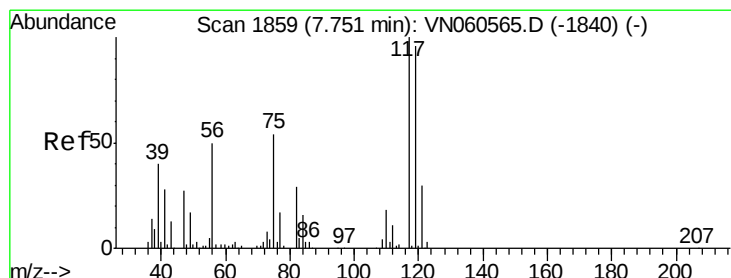
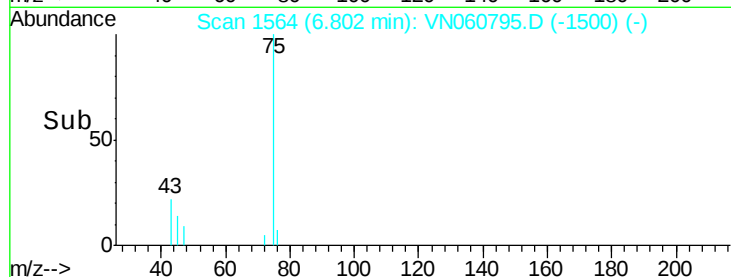
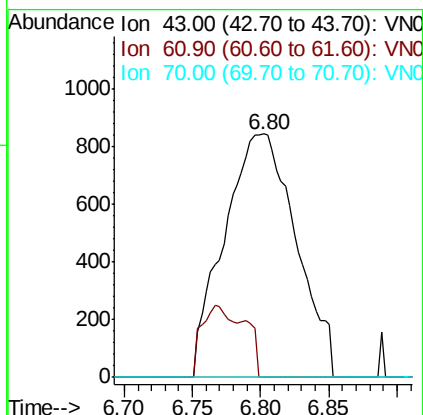
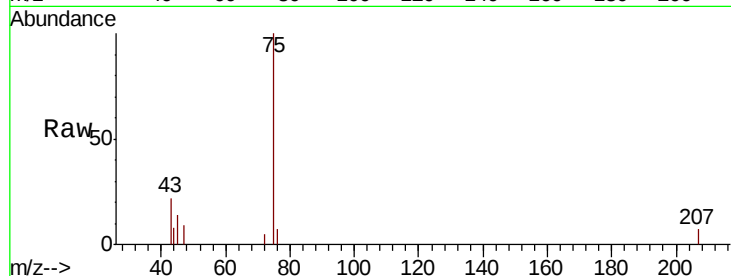




#37
Ethyl Acetate
Concen: 0.846 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

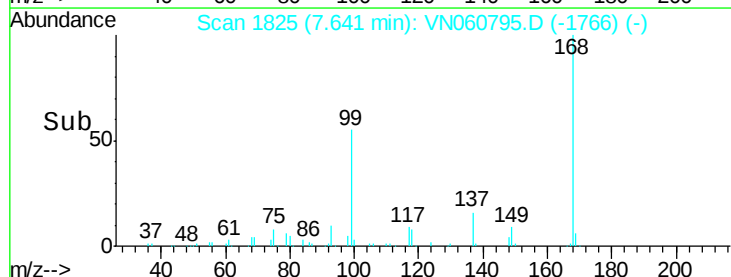
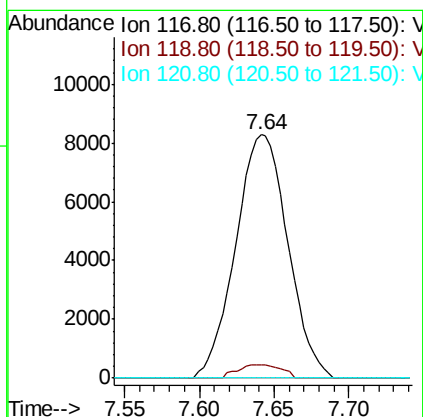
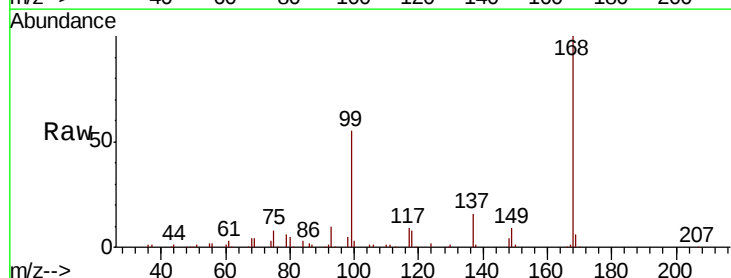
Instrument :
MSVOA_N
ClientSampled :

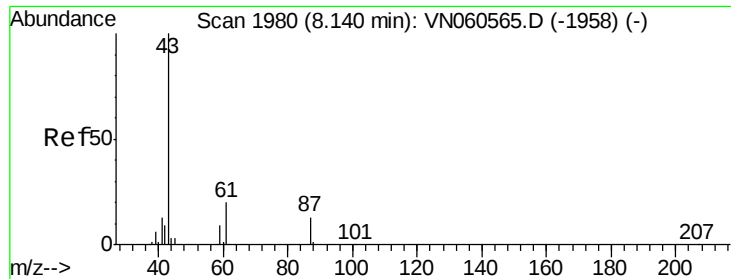
Tot Ion: 43 Resp: 3089
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.623 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion: 117 Resp: 20058
Ion Ratio Lower Upper
117 100
119 5.2 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.950 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Instrument :

MSVOA_N

ClientSampleId :

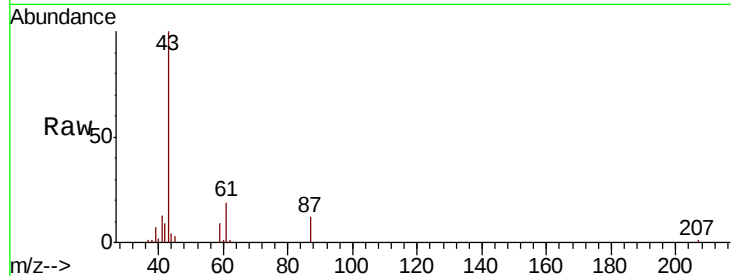
Tot Ion: 43 Resp: 59908

Ion Ratio Lower Upper

43 100

61 18.7 20.7 31.1#

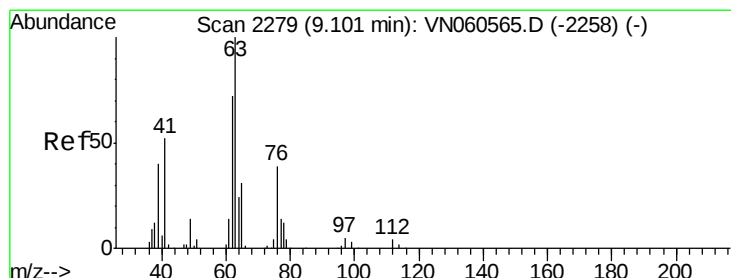
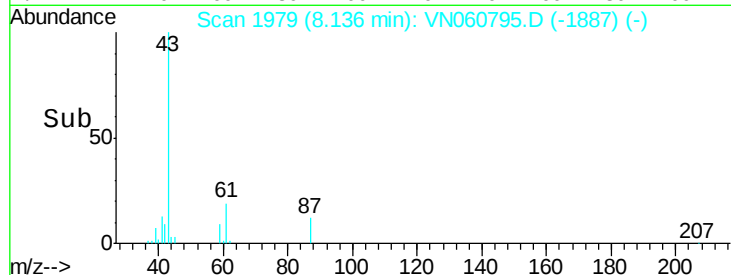
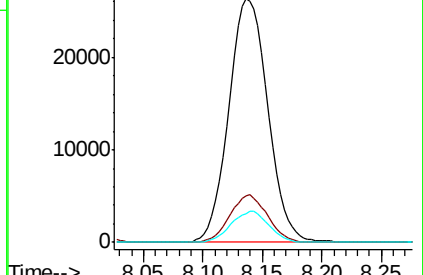
87 12.2 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060795.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060795.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060795.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.411 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060795.D

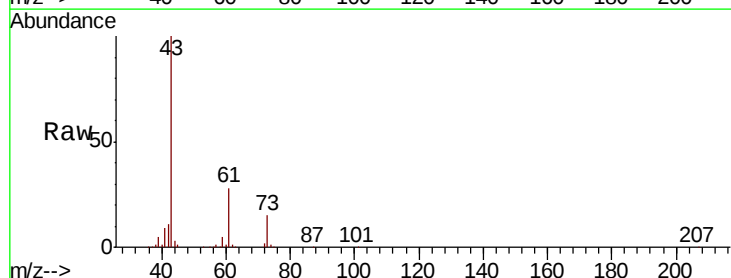
Acq: 31 Mar 2020 18:44

Tgt Ion: 63 Resp: 1107

Ion Ratio Lower Upper

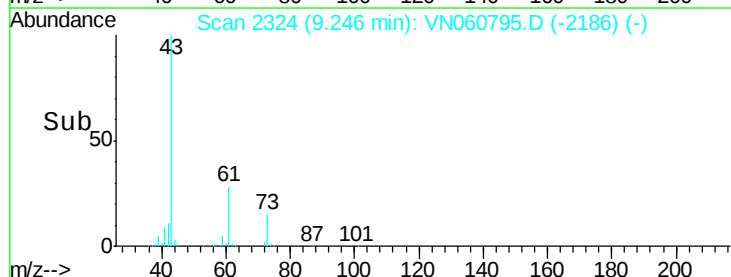
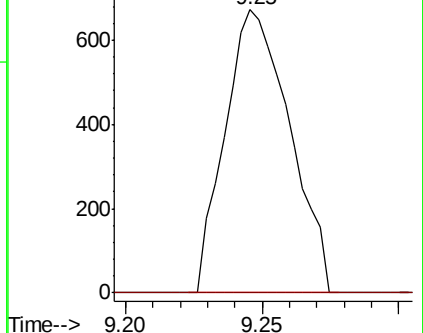
63 100

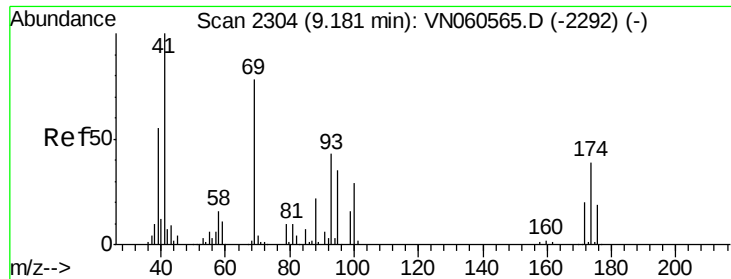
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060795.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060795.D (-2186) (-)

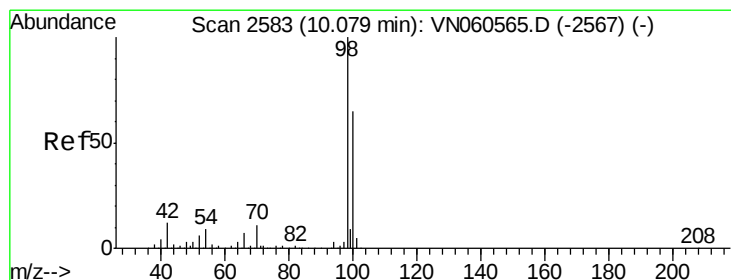
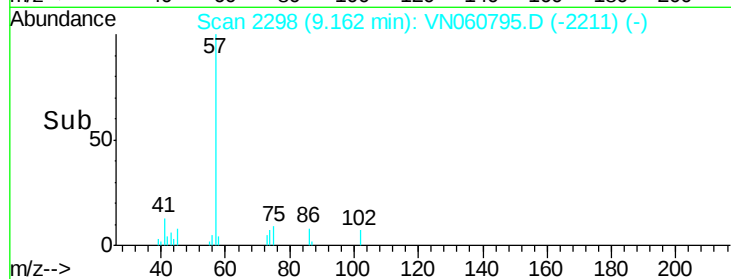
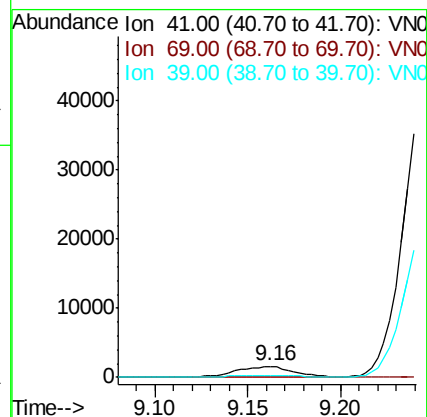
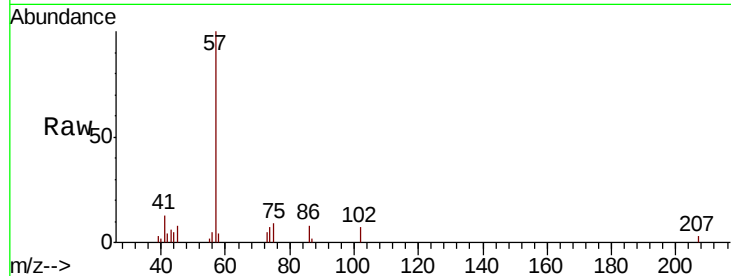




#48
Methvl methacrylate
Concen: 1.248 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

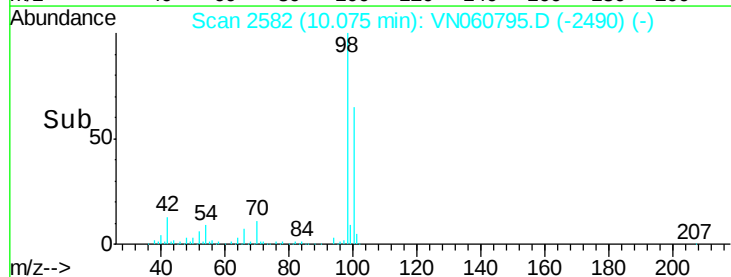
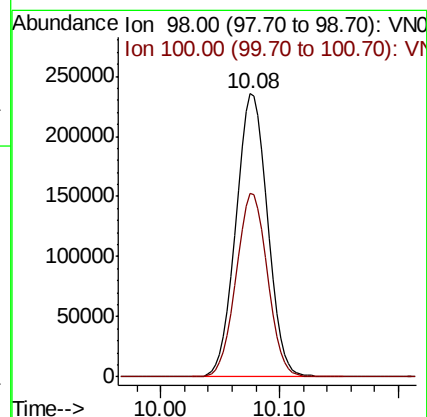
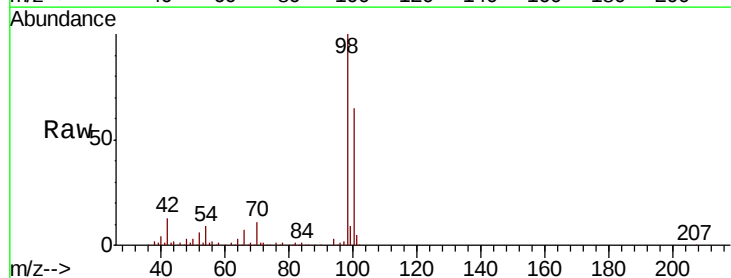
Instrument :
MSVOA_N
ClientSampleId :

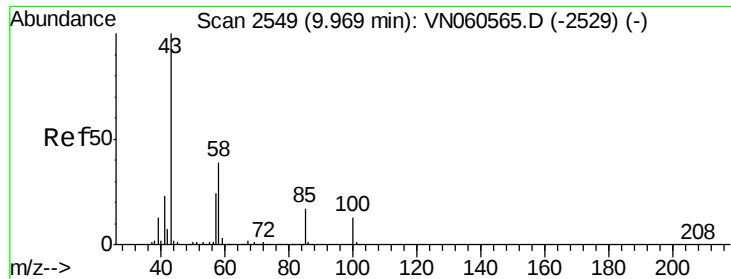
Tot Ion: 41 Resp: 3345
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.419 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion: 98 Resp: 434536
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.394 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Instrument :

MSVOA_N

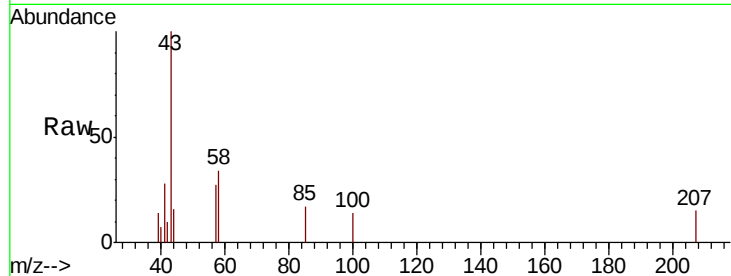
ClientSampled :

Tot Ion: 43 Resp: 4777

Ion Ratio Lower Upper

43 100

58 30.5 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN060795.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060795.D (-2456) (-)

12000

10000

8000

6000

4000

2000

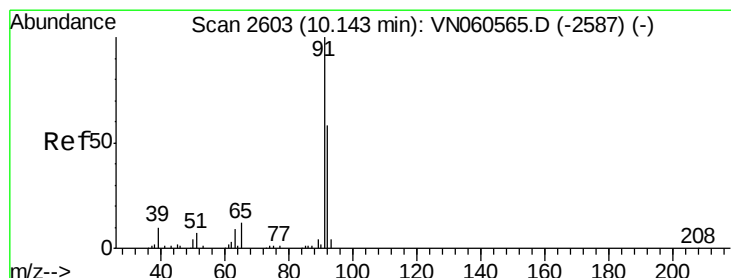
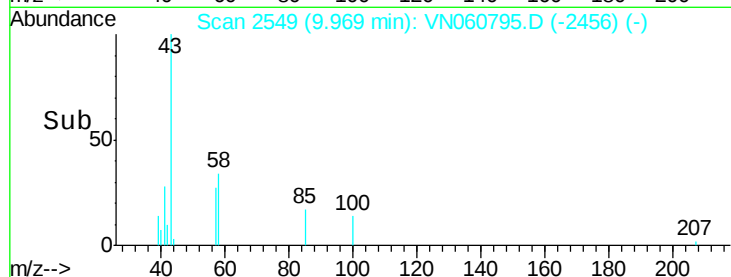
0

9.95

9.97

10.00

Time-->



#52

Toluene

Concen: 0.219 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060795.D

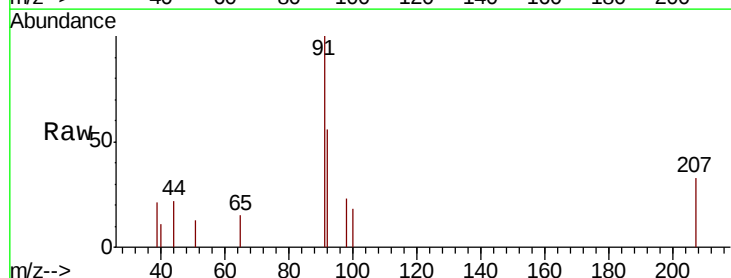
Acq: 31 Mar 2020 18:44

Tgt Ion: 92 Resp: 1348

Ion Ratio Lower Upper

92 100

91 187.7 137.6 206.4



Abundance Ion 92.00 (91.70 to 92.70): VN060795.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN060795.D (-2510) (-)

1500

1000

500

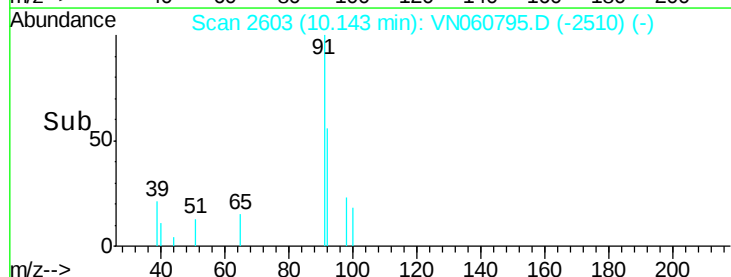
0

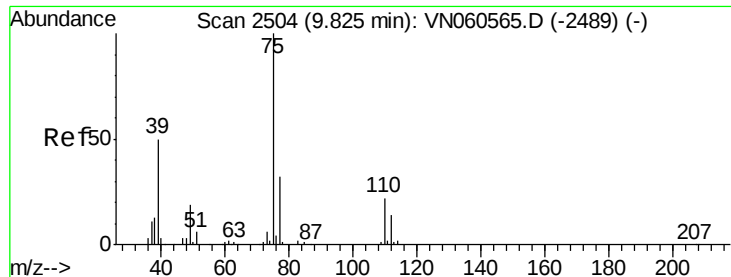
10.10

10.14

10.15

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.835 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Instrument :

MSVOA_N

ClientSampleId :

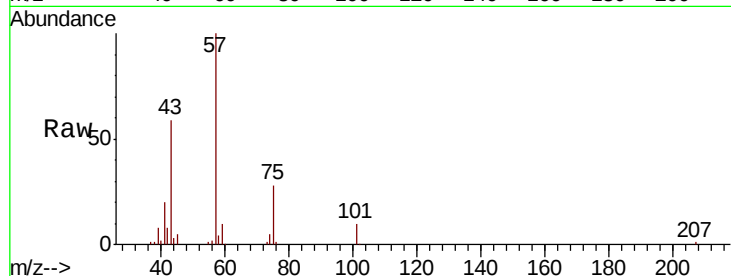
Tot Ion: 75 Resp: 24863

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

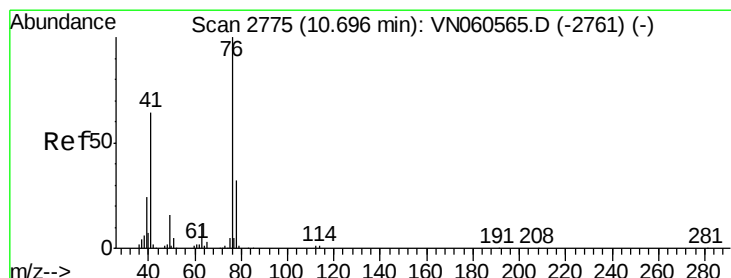
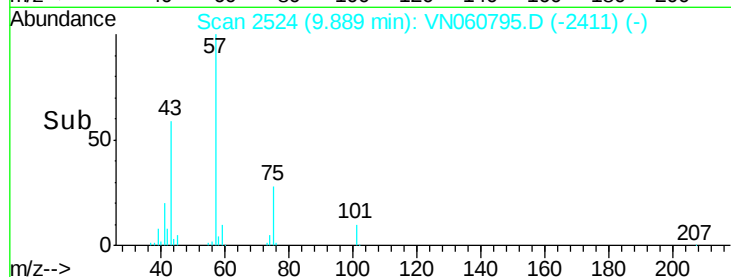
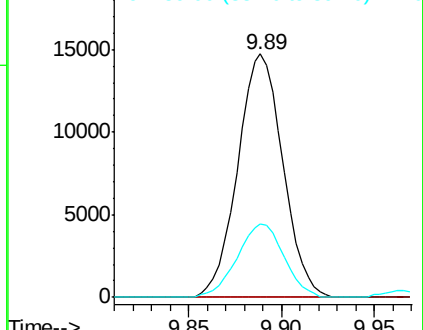
39 30.3 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060795.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060795.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060795.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 1.013 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060795.D

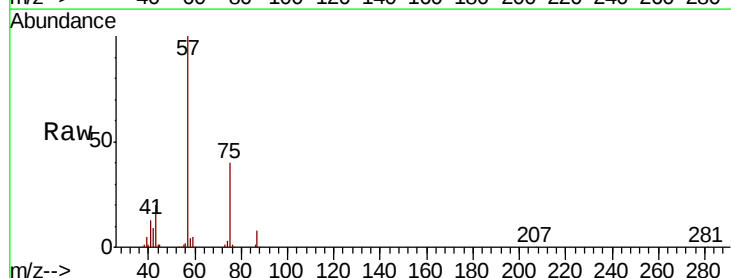
Acq: 31 Mar 2020 18:44

Tgt Ion: 76 Resp: 4168

Ion Ratio Lower Upper

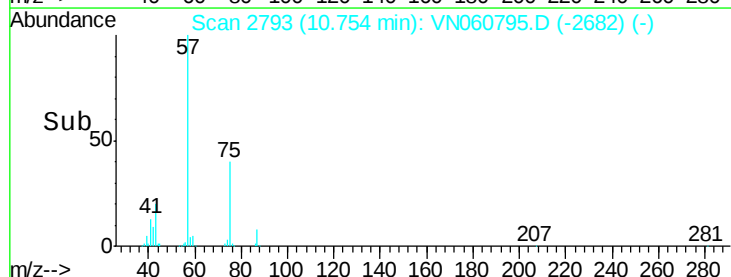
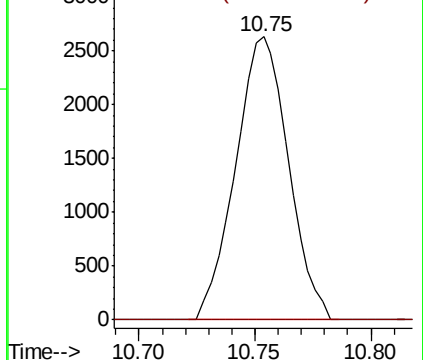
76 100

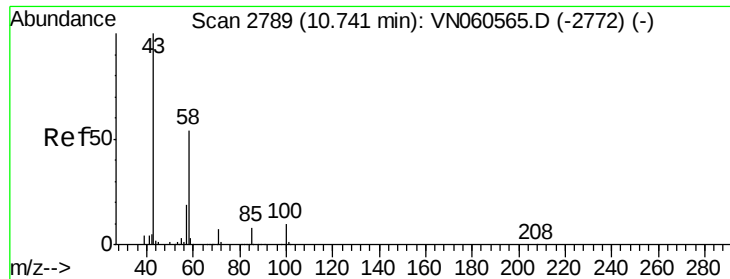
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060795.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060795.D (-2682) (-)

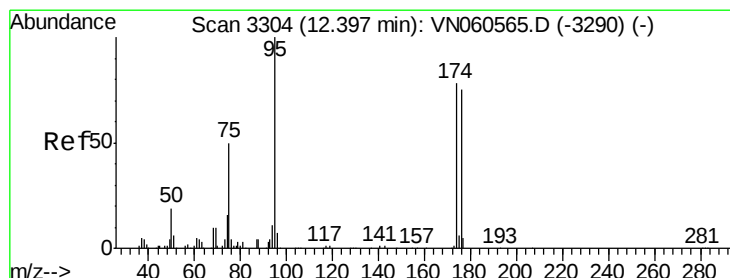
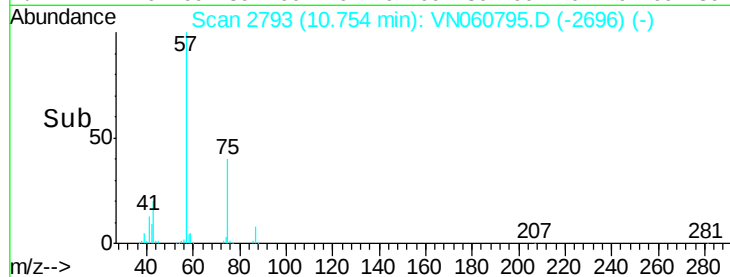
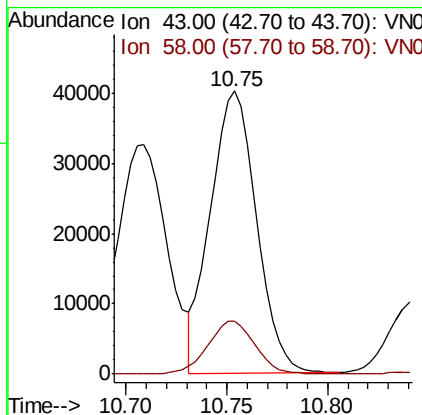
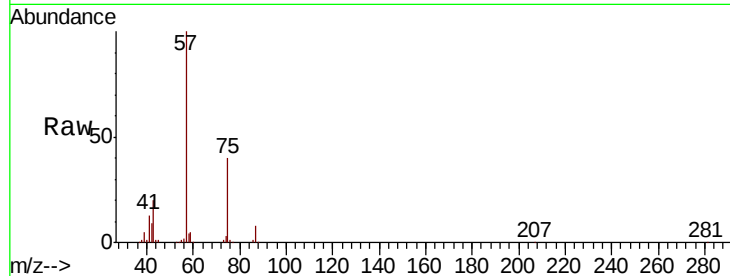




#59
2-Hexanone
Concen: 25.783 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

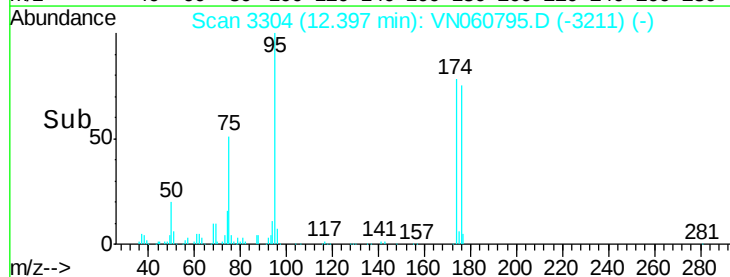
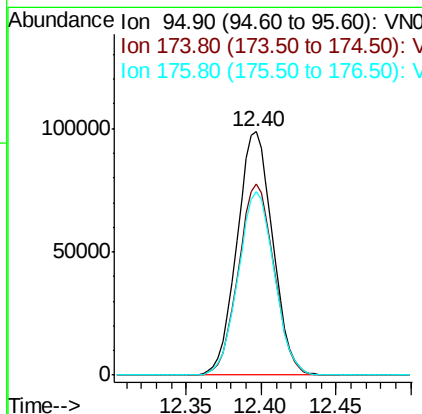
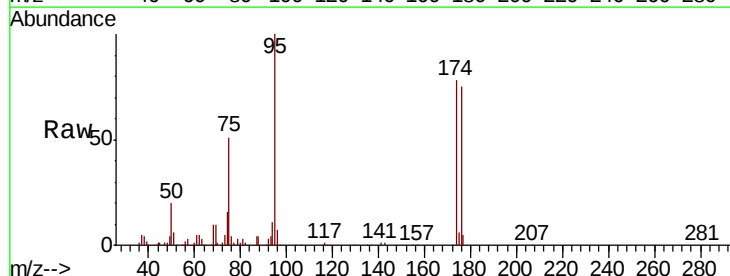
Instrument :
MSVOA_N
ClientSampleId :

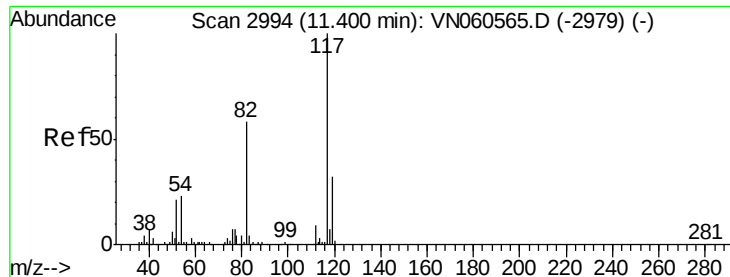
Tot Ion: 43 Resp: 63636
Ion Ratio Lower Upper
43 100
58 19.2 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.945 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion: 95 Resp: 164071
Ion Ratio Lower Upper
95 100
174 78.5 0.0 157.6
176 76.1 0.0 150.6

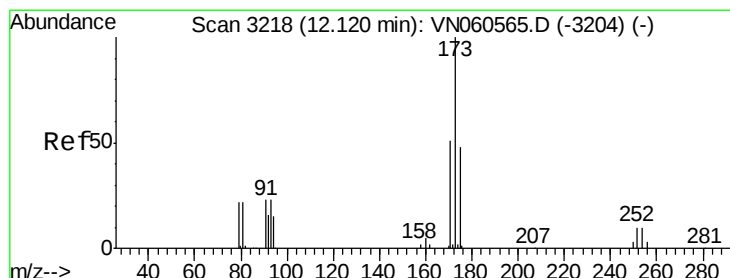
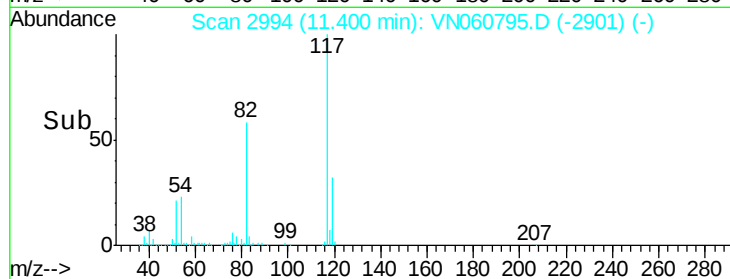
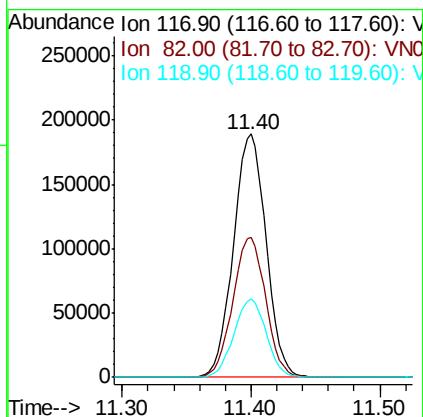
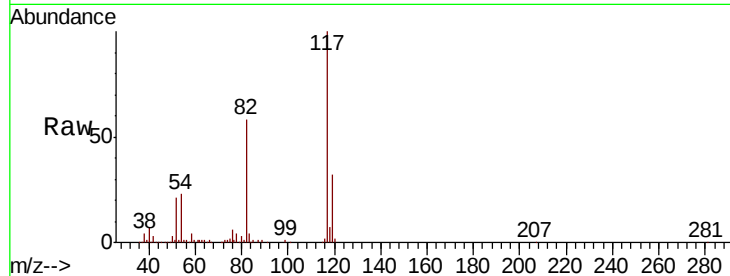




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

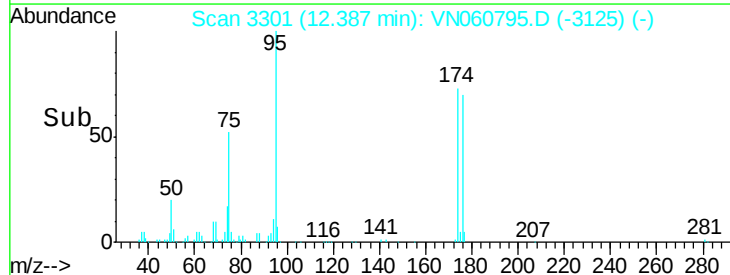
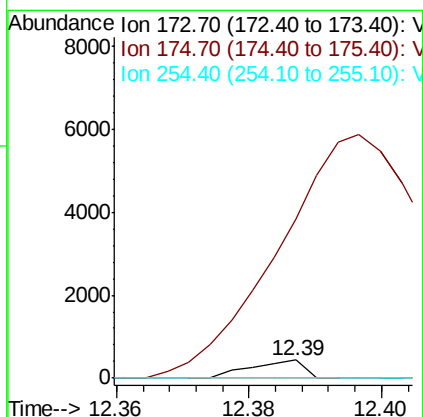
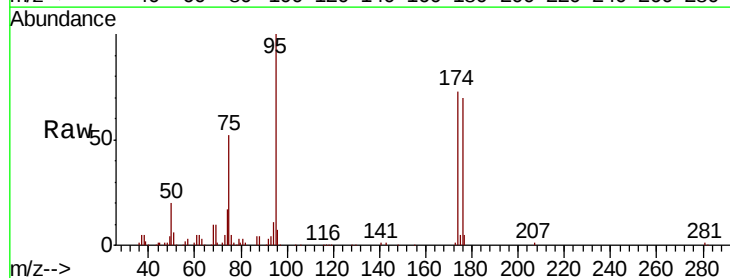
Instrument :
MSVOA_N
ClientSampled :

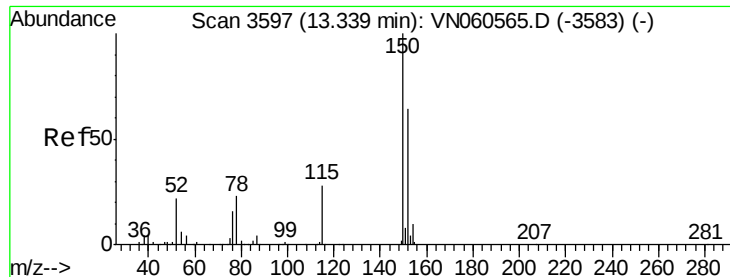
Tot Ion:117 Resp: 332453
Ion Ratio Lower Upper
117 100
82 57.6 46.7 70.1
119 32.1 25.5 38.3



#71
Bromoform
Concen: 1.796 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.27 min
Lab File: VN060795.D
Acq: 31 Mar 2020 18:44

Tgt Ion:173 Resp: 238
Ion Ratio Lower Upper
173 100
175 3410.1 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Instrument :

MSVOA_N

ClientSampleId :

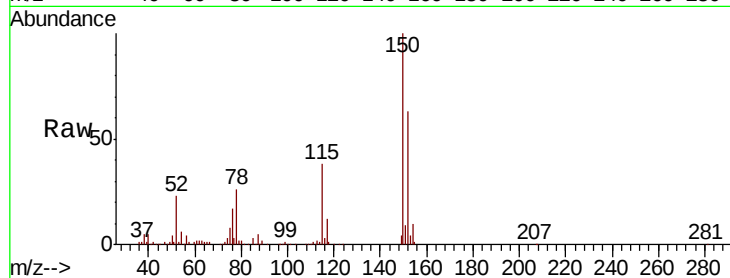
Tot Ion:152 Resp: 153495

Ion Ratio Lower Upper

152 100

115 60.6 30.2 90.6

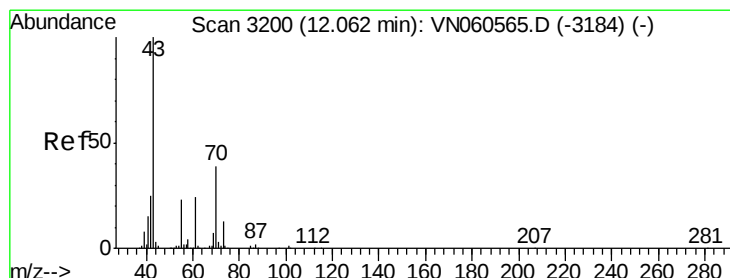
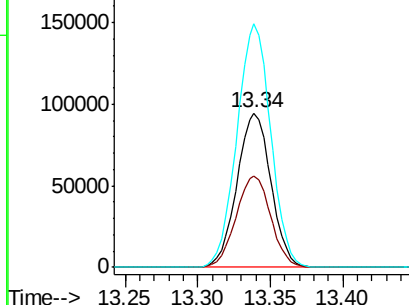
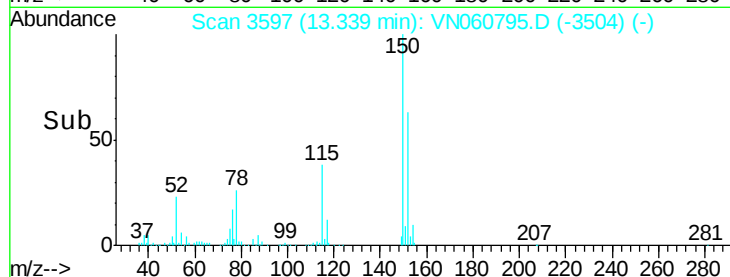
150 157.7 0.0 350.2



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-ethyl acetate

Concen: 0.646 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Tgt Ion: 43 Resp: 3439

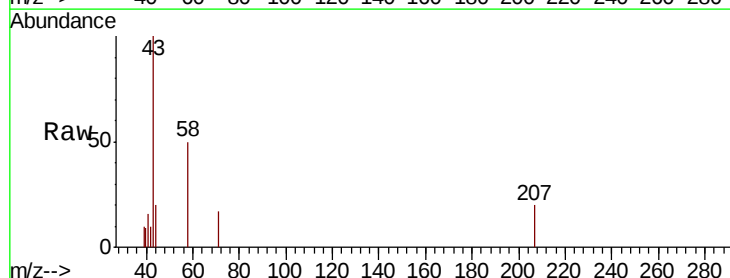
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

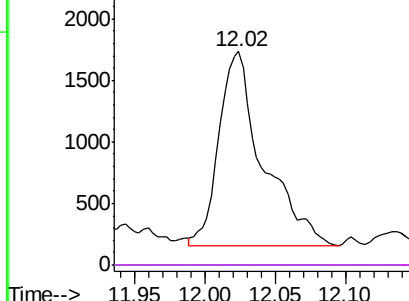
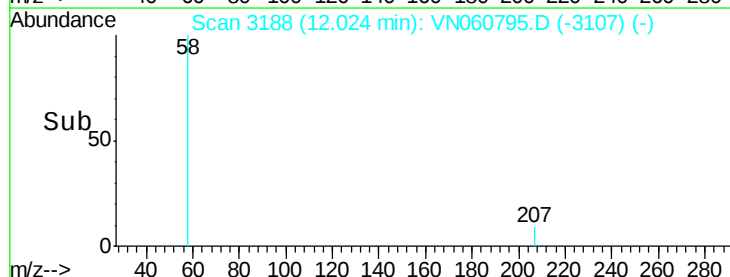


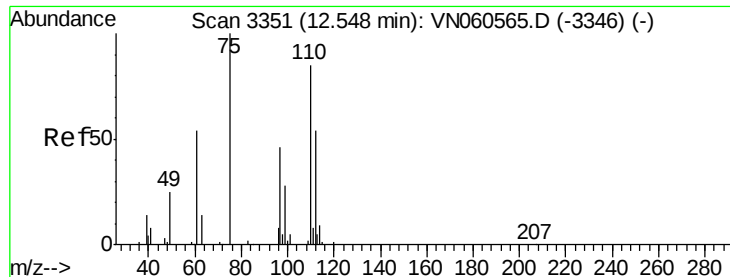
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.445 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060795.D

Acq: 31 Mar 2020 18:44

Instrument :

MSVOA_N

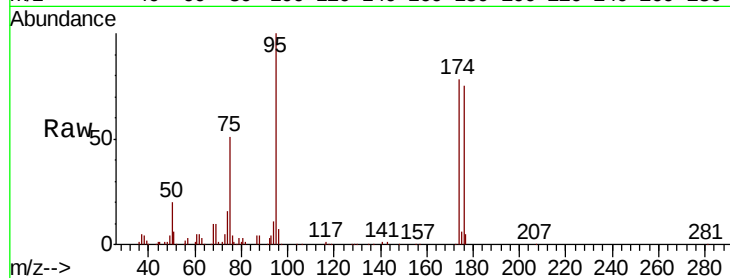
ClientSampleId :

Tot Ion: 75 Resp: 84277

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060795.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060795.D (-3304) (-)

12.40

50000

40000

30000

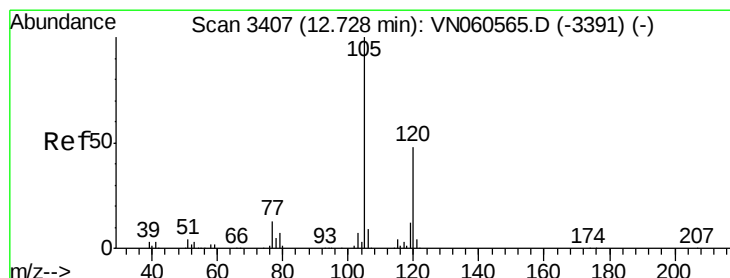
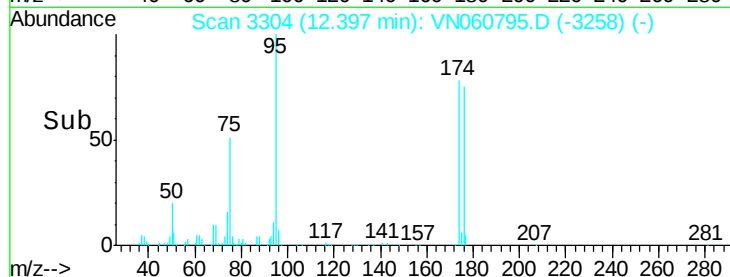
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.465 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060795.D

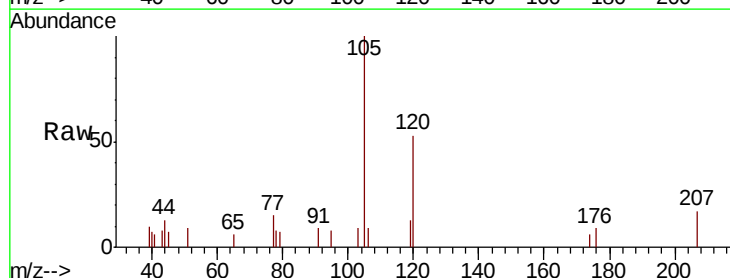
Acq: 31 Mar 2020 18:44

Tgt Ion: 105 Resp: 4541

Ion Ratio Lower Upper

105 100

120 45.3 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): VN060795.D (-3314) (-)

Ion 120.00 (119.70 to 120.70): VN060795.D (-3314) (-)

12.73

3000

2500

2000

1500

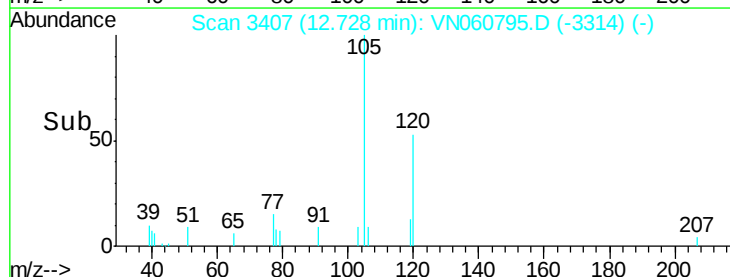
1000

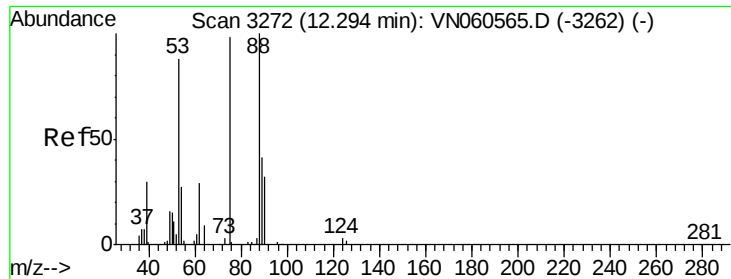
500

0

12.70 12.75

Time-->





#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.351 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060795.D
 Acq: 31 Mar 2020 18:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 84277
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

