

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059795.D
 Acq On : 20 Jan 2020 18:27
 Operator : JC/MD
 Sample : PB126173ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:20:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	196742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	294679	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	253624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	102720	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	102092	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	
35) Dibromofluoromethane	7.57	113	89535	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
50) Toluene-d8	10.08	98	344099	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.40	95	112525	45.84	ug/l	0.00
Spiked Amount			Recovery	=	91.68%	

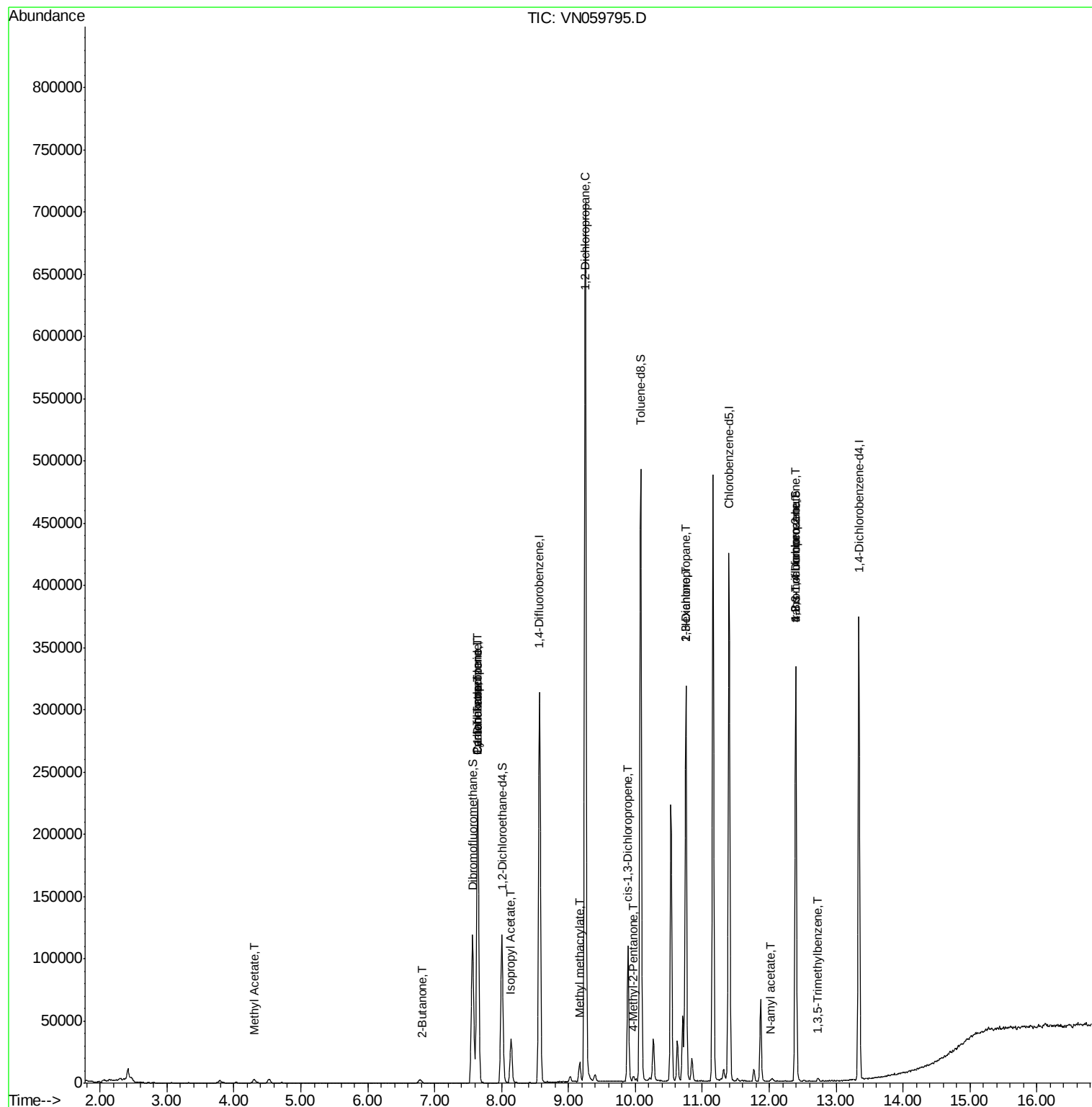
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4061	Below Cal		98
18) Methyl Acetate	4.29	43	5426	2.126	ug/l #	78
25) 2-Butanone	6.82	43	259	0.209	ug/l #	50
31) Cyclohexane	7.64	56	3795	1.174	ug/l #	6
36) 1,1-Dichloropropene	7.64	75	12780	4.980	ug/l #	52
38) Carbon Tetrachloride	7.64	117	17957	6.433	ug/l #	16
43) Isopropyl Acetate	8.14	43	41563	10.040	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	920	0.486	ug/l #	44
48) Methyl methacrylate	9.16	41	2286	1.235	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2556	1.068	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	20391	6.447	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3355	1.104	ug/l #	42
59) 2-Hexanone	10.75	43	43876	24.887	ug/l #	55
74) N-amyl acetate	12.02	43	2621	0.897	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	55955	32.369	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2045	0.323	ug/l	83
81) trans-1,4-Dichloro-2-buten	12.40	75	55955	69.512	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.33	75	62	Below Cal	#	6

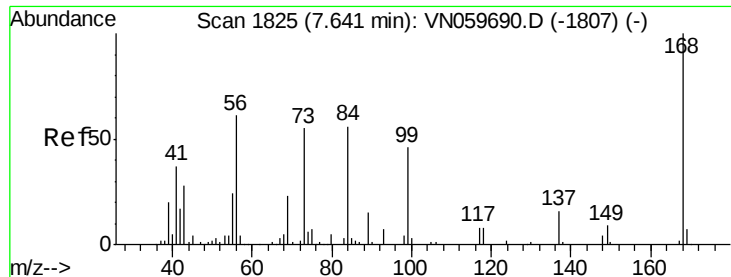
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

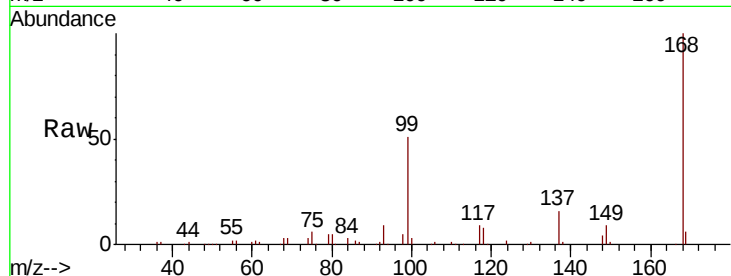
ClientSampleId :

Tot Ion:168 Resp: 196742

Ion Ratio Lower Upper

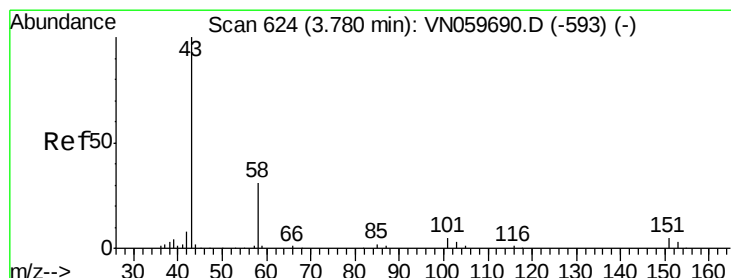
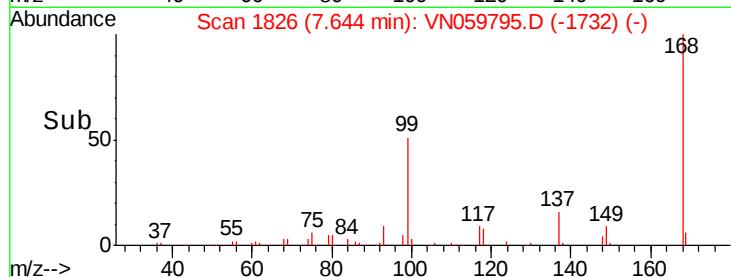
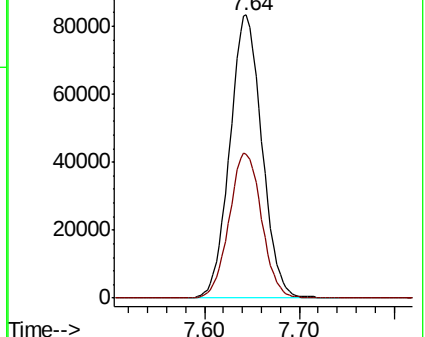
168 100

99 50.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059795.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059795.D (-1732) (-)



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059795.D

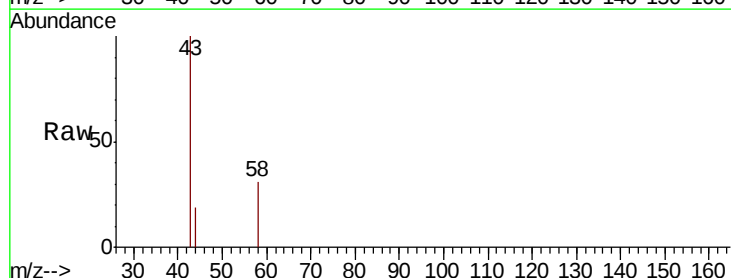
Acq: 20 Jan 2020 18:27

Tgt Ion: 43 Resp: 4061

Ion Ratio Lower Upper

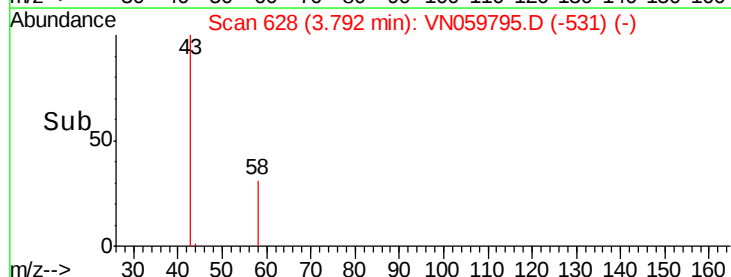
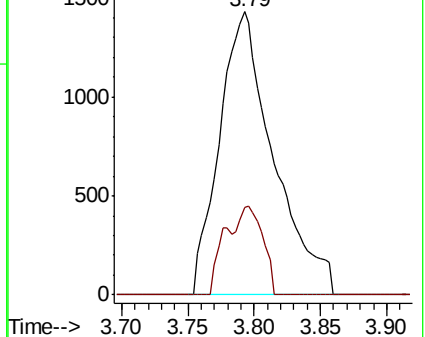
43 100

58 30.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059795.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN059795.D (-531) (-)

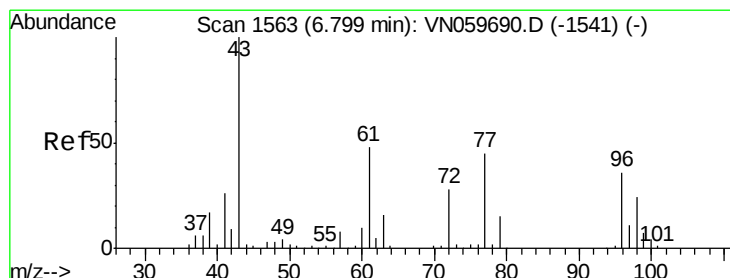
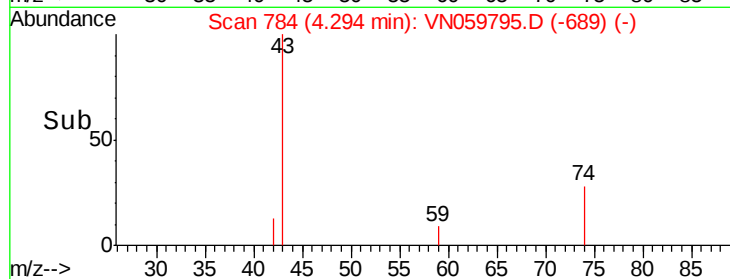
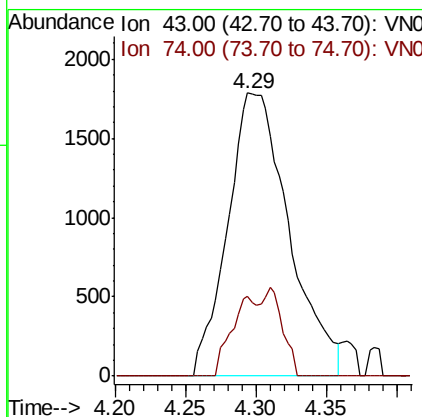
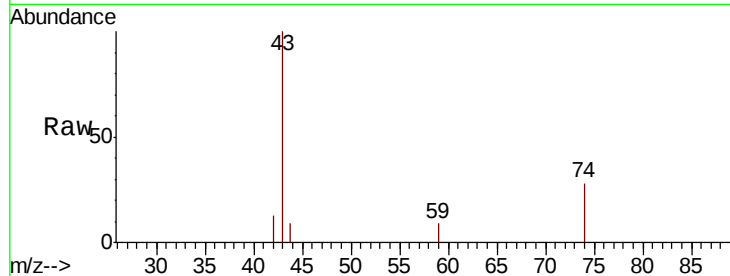




#18
Methyl Acetate
Concen: 2.126 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

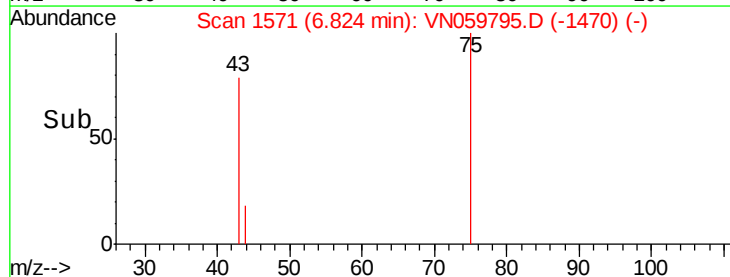
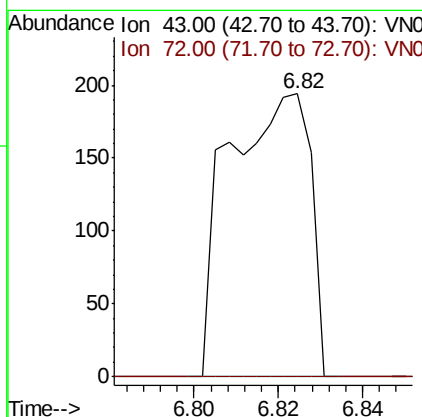
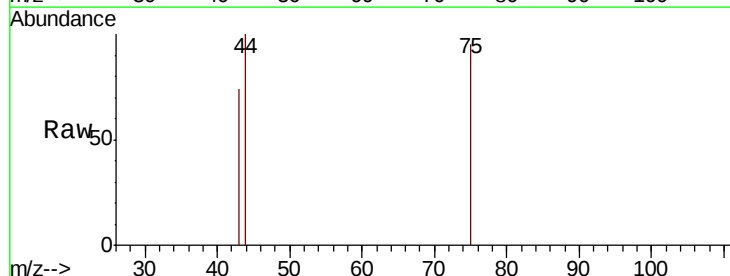
Instrument :
MSVOA_N
ClientSampled :

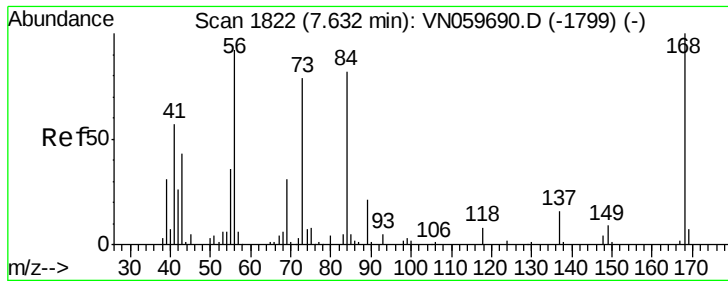
Tot Ion: 43 Resp: 5426
Ion Ratio Lower Upper
43 100
74 11.6 17.5 26.3#



#25
2-Butanone
Concen: 0.209 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.03 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Tgt Ion: 43 Resp: 259
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

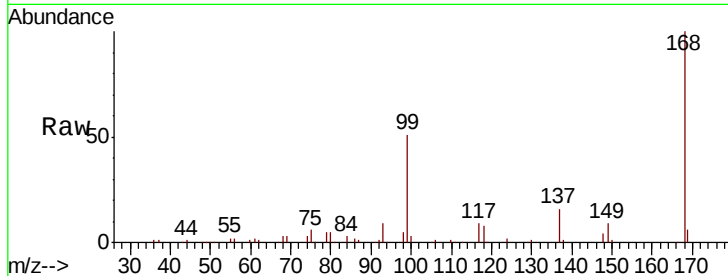




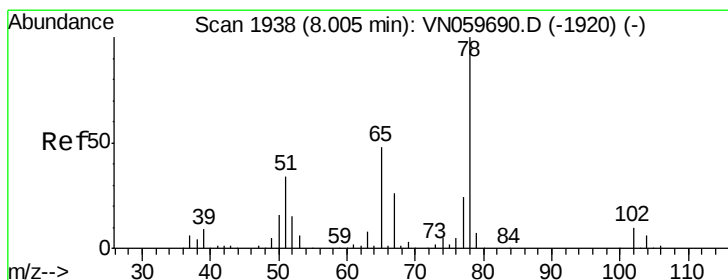
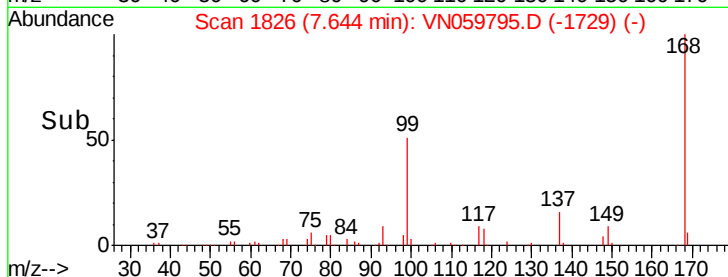
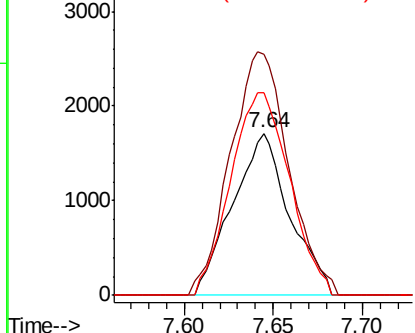
#31
Cyclohexane
Concen: 1.174 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3795
Ion Ratio Lower Upper
56 100
69 148.6 26.5 39.7#
84 125.1 65.3 97.9#

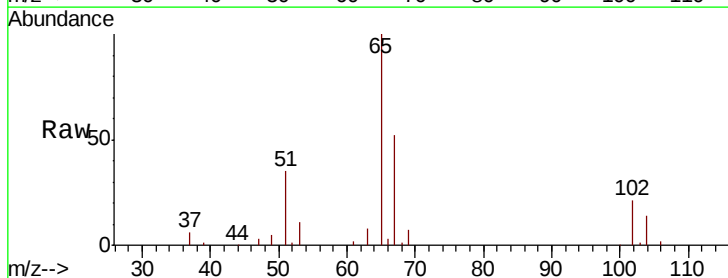


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

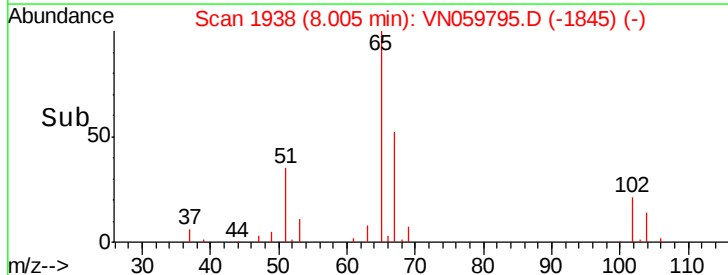
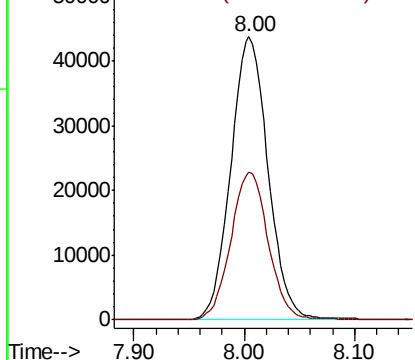


#33
1,2-Dichloroethane-d4
Concen: 46.727 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Tgt Ion: 65 Resp: 102092
Ion Ratio Lower Upper
65 100
67 52.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

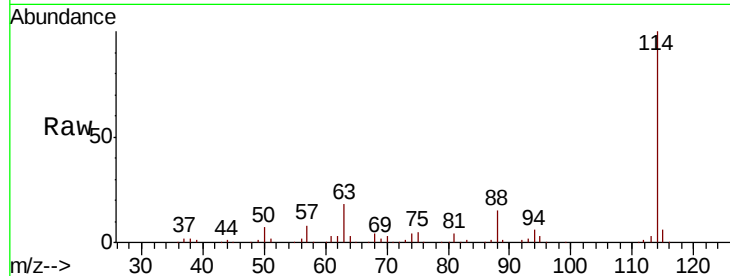
Tot Ion:114 Resp: 294679

Ion Ratio Lower Upper

114 100

63 18.1 0.0 43.6

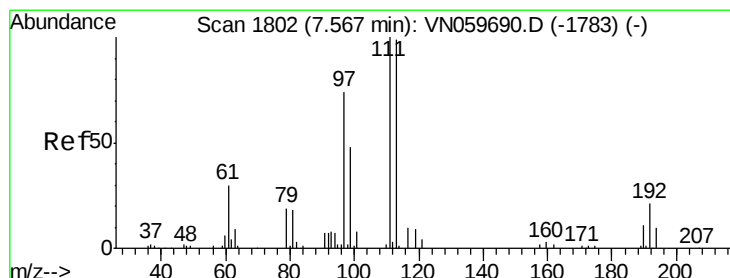
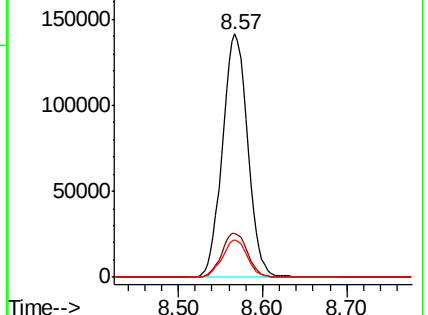
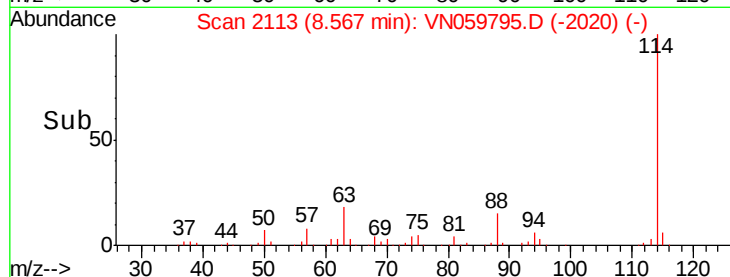
88 15.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.950 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

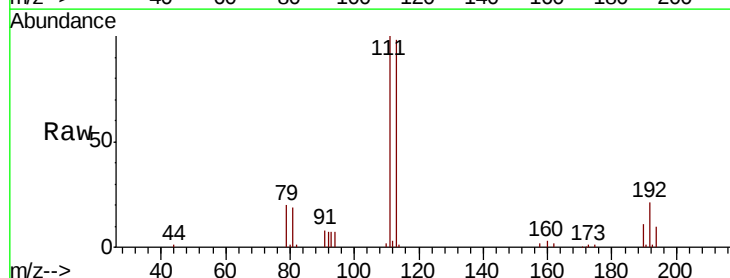
Tgt Ion:113 Resp: 89535

Ion Ratio Lower Upper

113 100

111 101.5 83.5 125.3

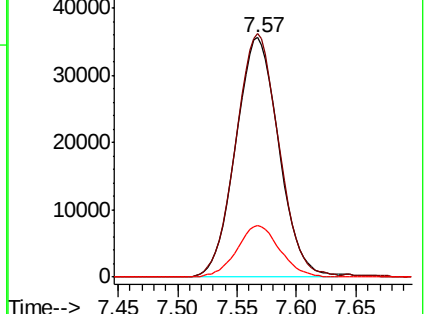
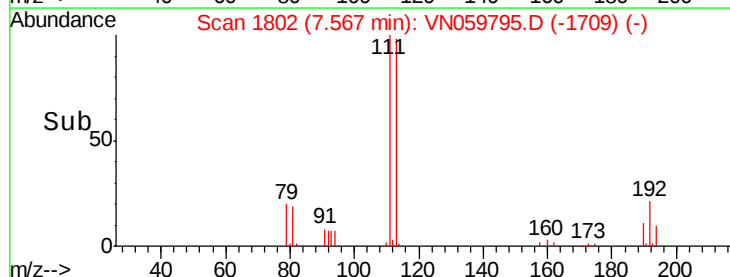
192 21.2 15.4 23.2

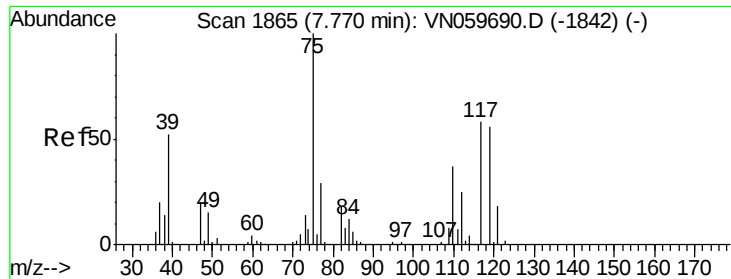


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

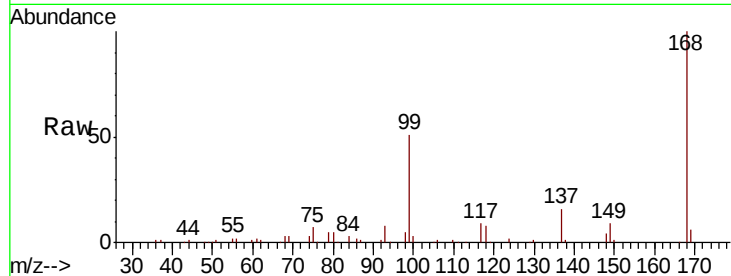




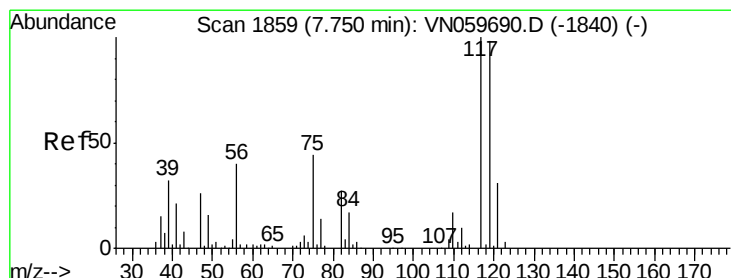
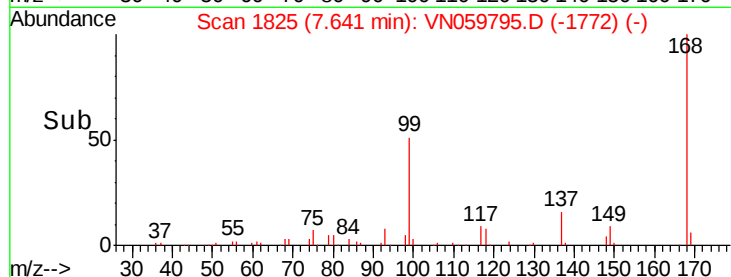
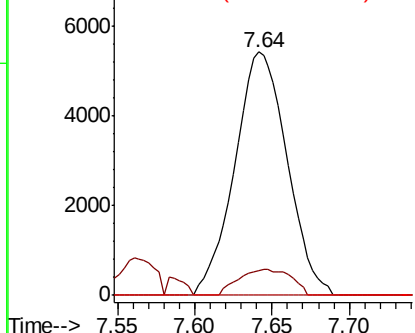
#36
 1,1-Dichloropropene
 Concen: 4.980 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059795.D
 Acq: 20 Jan 2020 18:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 12780
 Ion Ratio Lower Upper
 75 100
 110 10.7 16.6 49.7#
 77 0.0 25.1 37.7#

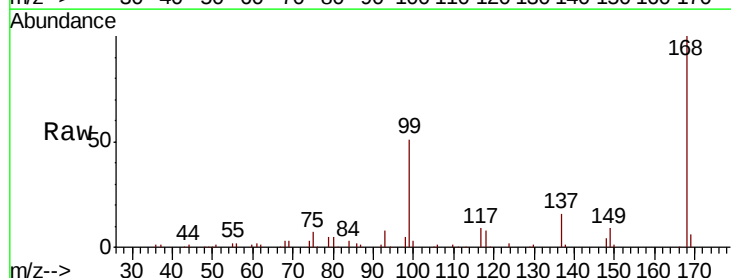


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

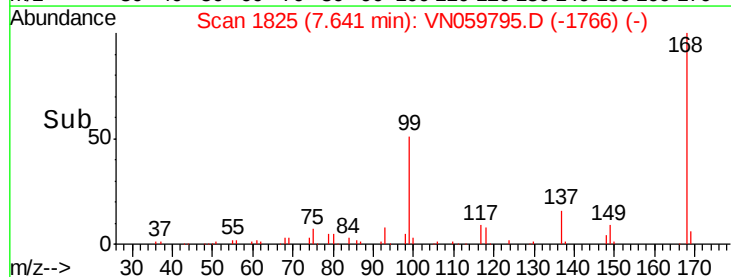
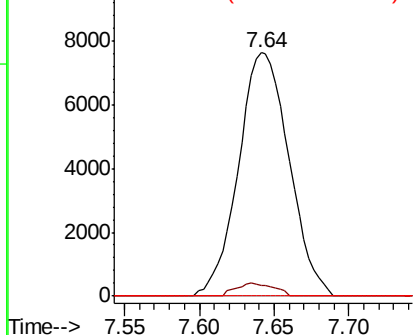


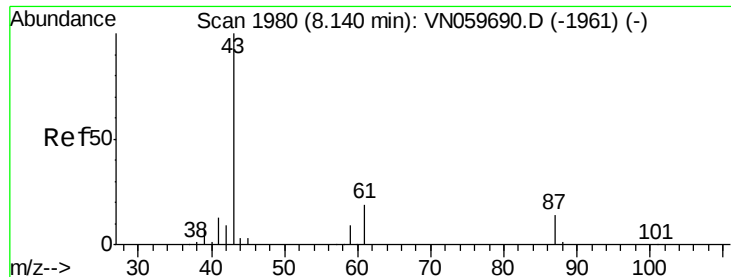
#38
 Carbon Tetrachloride
 Concen: 6.433 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059795.D
 Acq: 20 Jan 2020 18:27

Tgt Ion: 117 Resp: 17957
 Ion Ratio Lower Upper
 117 100
 119 4.6 76.5 114.7#
 121 0.0 25.1 37.7#



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





#43

Isopropyl Acetate

Concen: 10.040 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

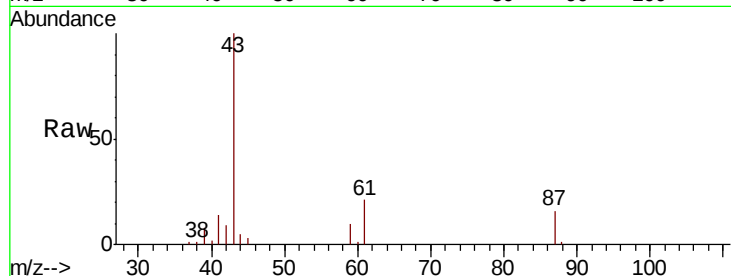
Tot Ion: 43 Resp: 41563

Ion Ratio Lower Upper

43 100

61 20.6 20.2 30.2

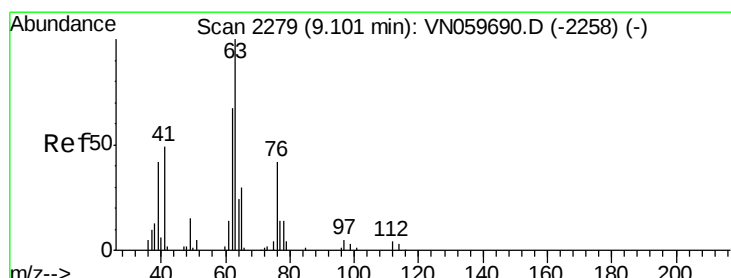
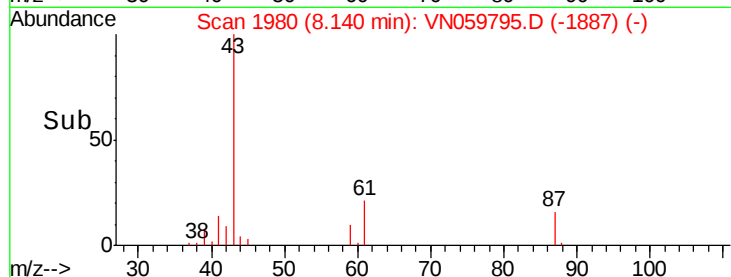
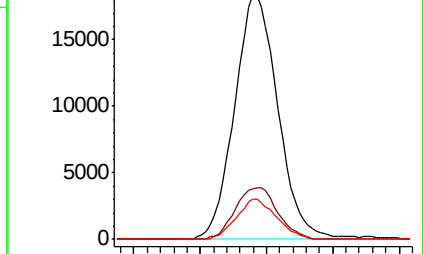
87 15.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059795.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059795.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059795.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.486 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059795.D

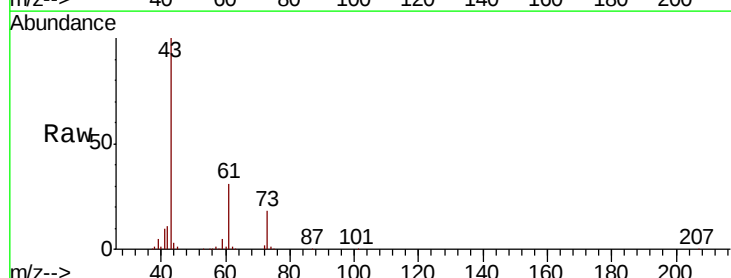
Acq: 20 Jan 2020 18:27

Tgt Ion: 63 Resp: 920

Ion Ratio Lower Upper

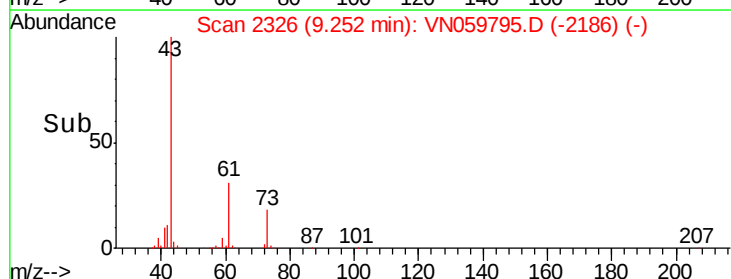
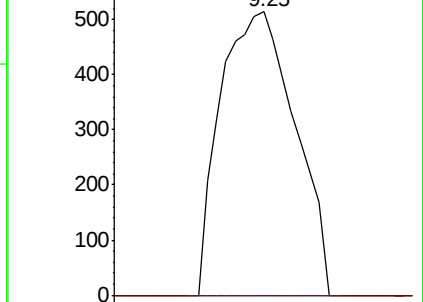
63 100

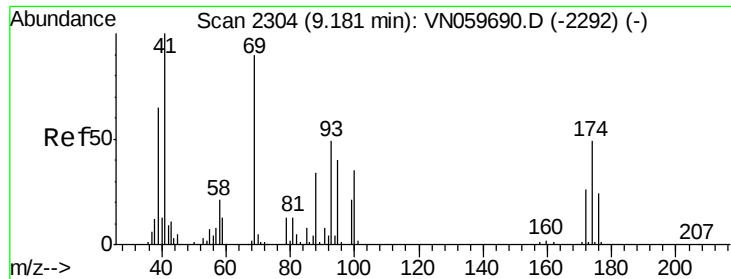
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059795.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059795.D (-2186) (-)

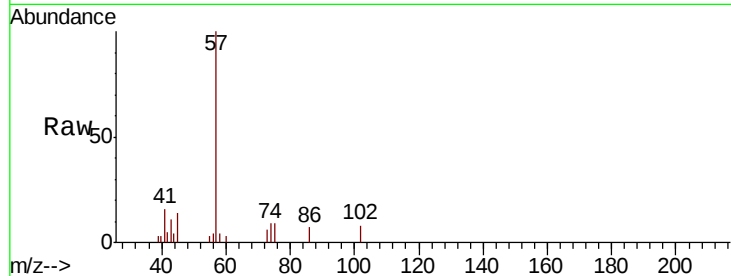




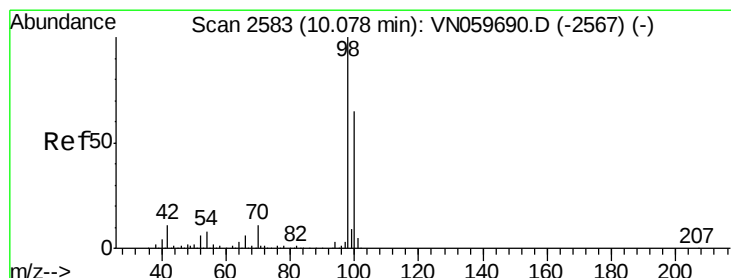
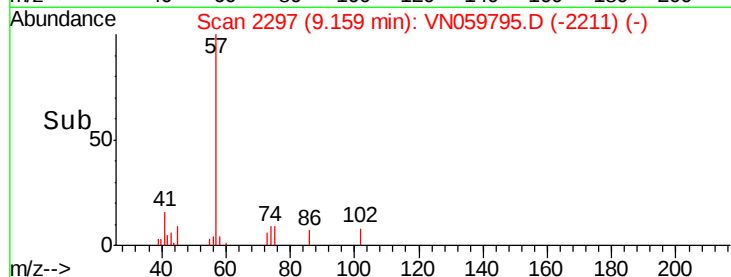
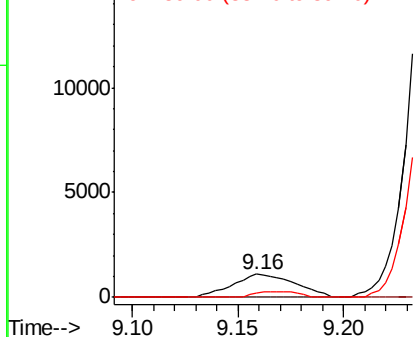
#48
Methvl methacrylate
Concen: 1.235 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2286
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

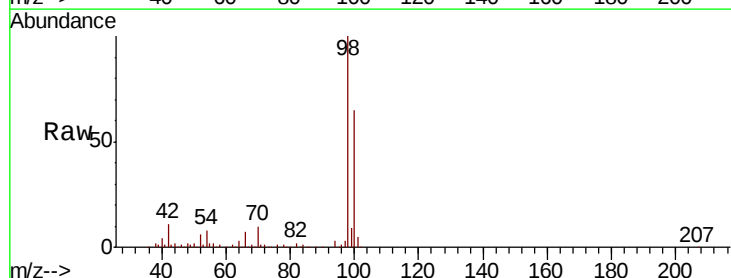


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

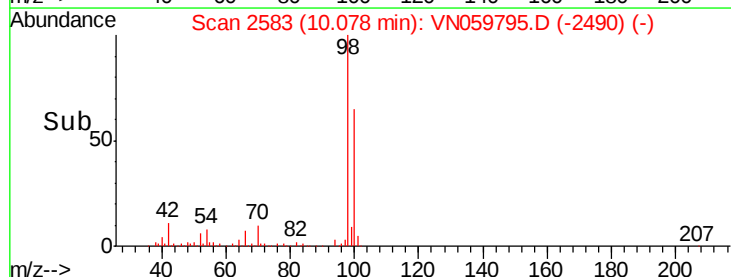
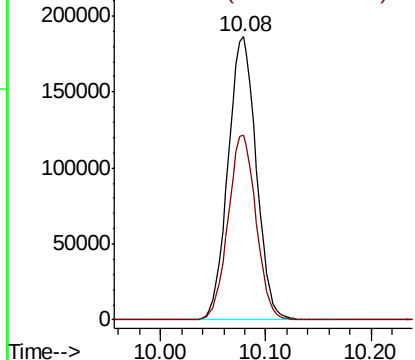


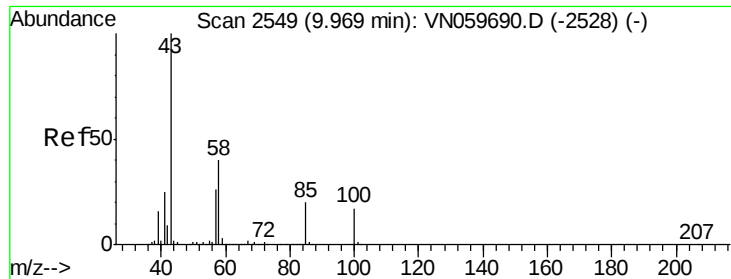
#50
Toluene-d8
Concen: 50.538 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Tgt Ion: 98 Resp: 344099
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.068 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

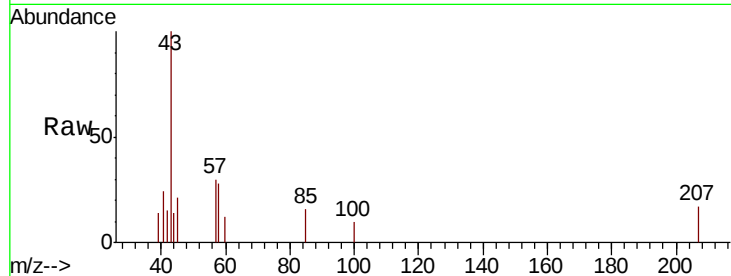
ClientSampleId :

Tot Ion: 43 Resp: 2556

Ion Ratio Lower Upper

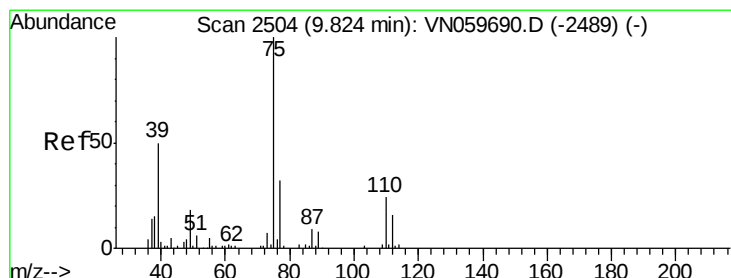
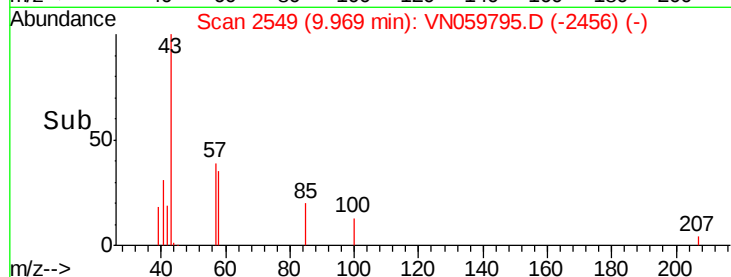
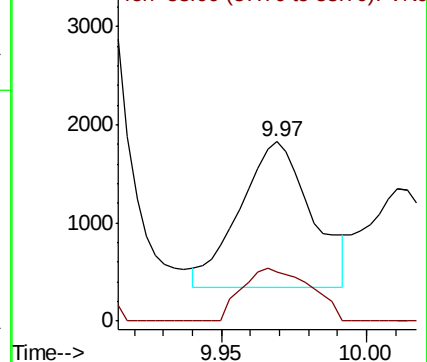
43 100

58 34.7 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.447 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

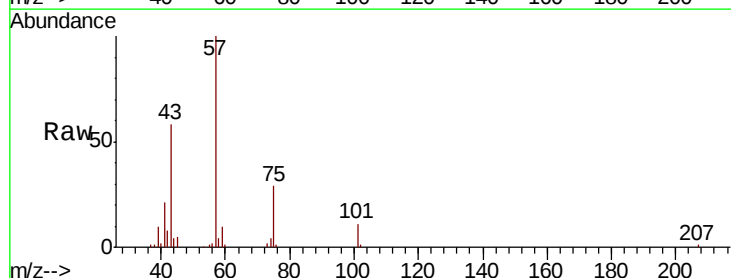
Tgt Ion: 75 Resp: 20391

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

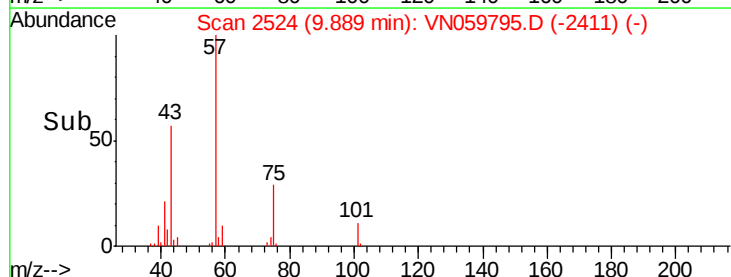
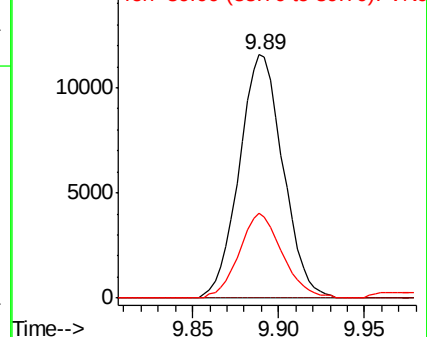
39 35.1 46.1 69.1#

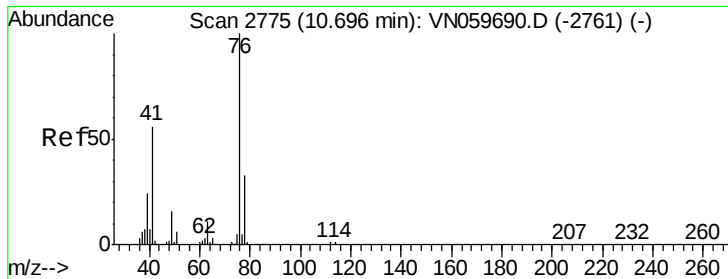


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.104 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

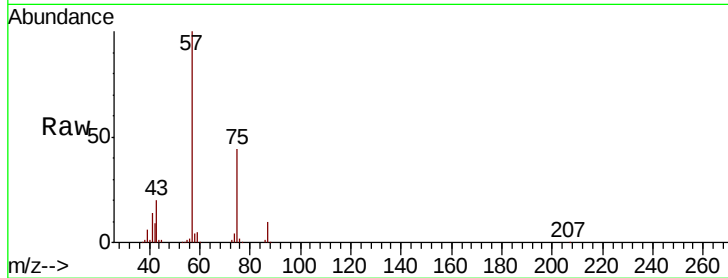
ClientSampled :

Tot Ion: 76 Resp: 3355

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.75

2500

2000

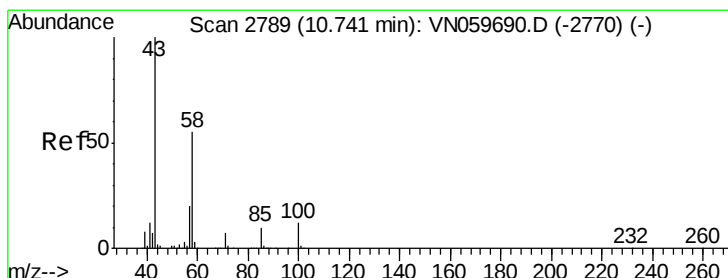
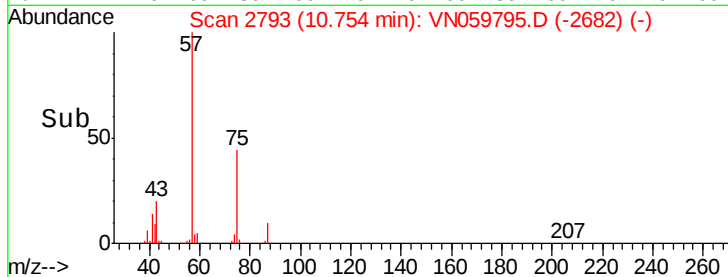
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 24.887 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059795.D

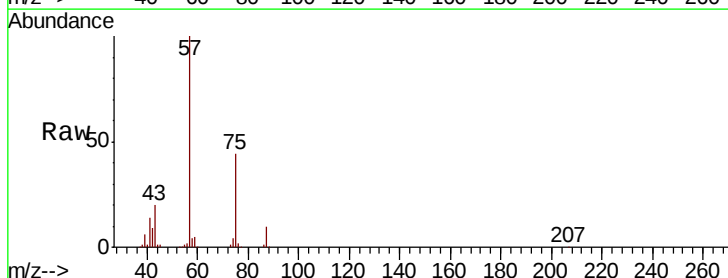
Acq: 20 Jan 2020 18:27

Tgt Ion: 43 Resp: 43876

Ion Ratio Lower Upper

43 100

58 20.2 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.75

30000

25000

20000

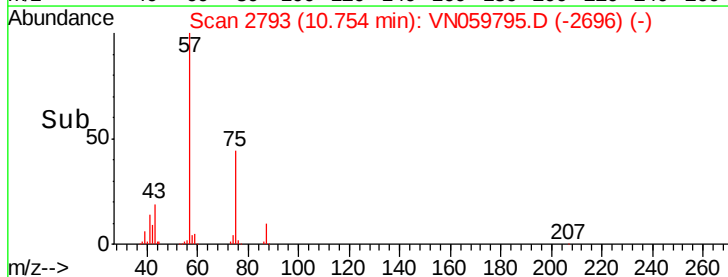
15000

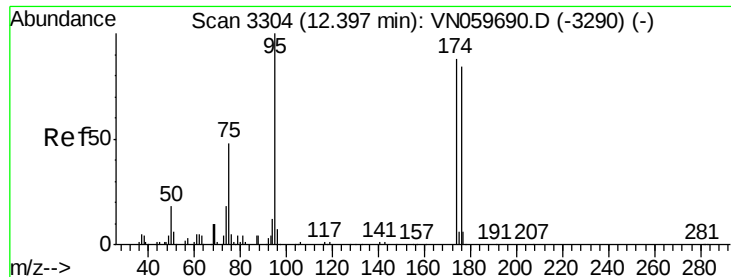
10000

5000

0

Time--> 10.70 10.75 10.80

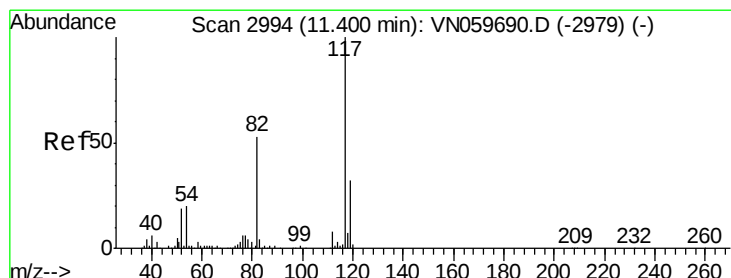
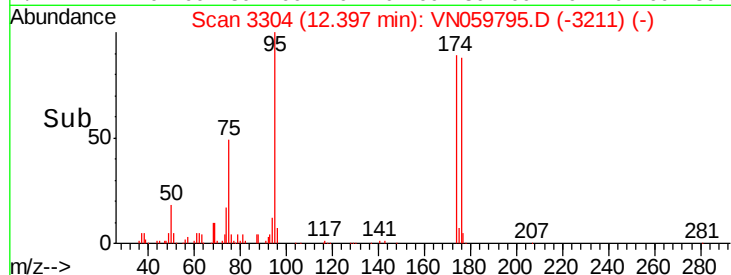
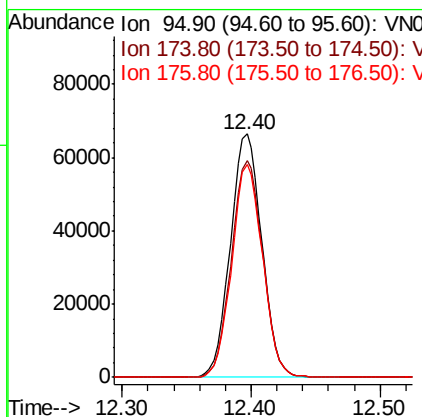
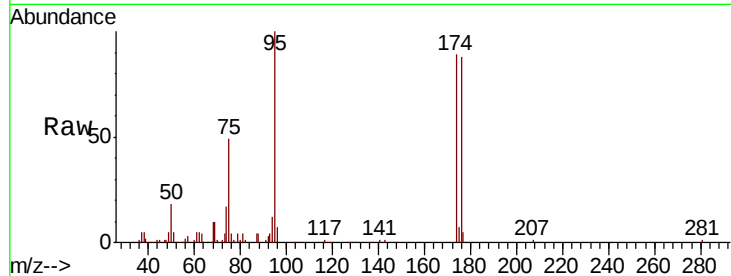




#62
4-Bromofluorobenzene
Concen: 45.844 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

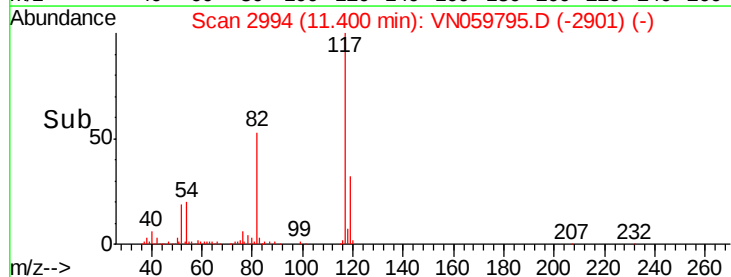
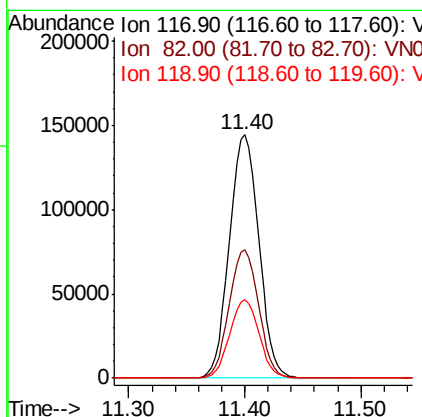
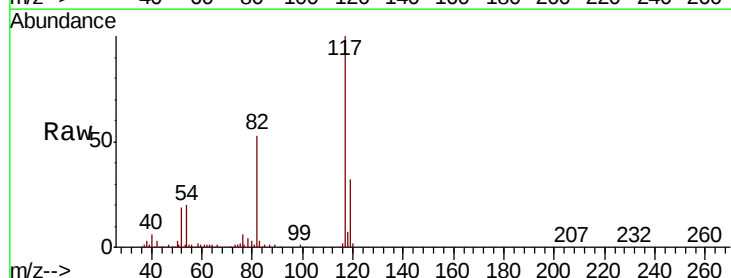
Instrument :
MSVOA_N
ClientSampled :

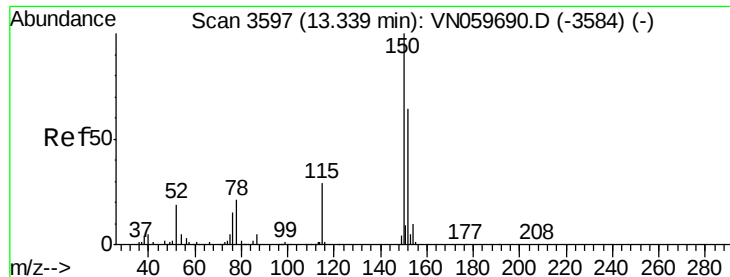
Tot Ion: 95 Resp: 112525
Ion Ratio Lower Upper
95 100
174 88.9 0.0 151.4
176 86.0 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Tgt Ion: 117 Resp: 253624
Ion Ratio Lower Upper
117 100
82 52.6 45.9 68.9
119 32.3 25.5 38.3



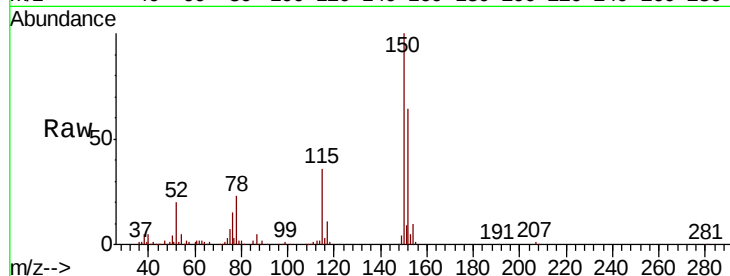


#72

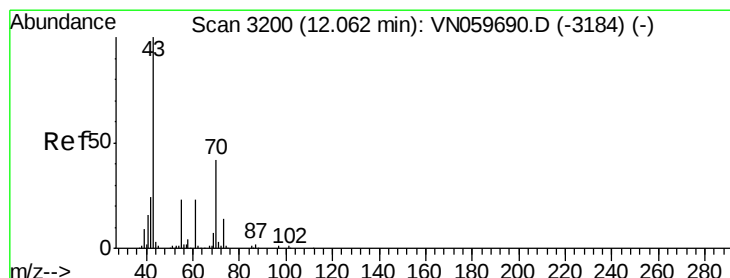
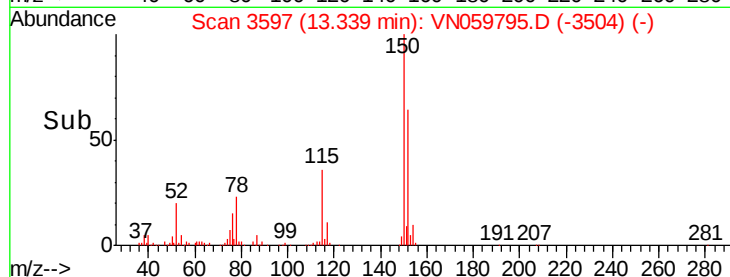
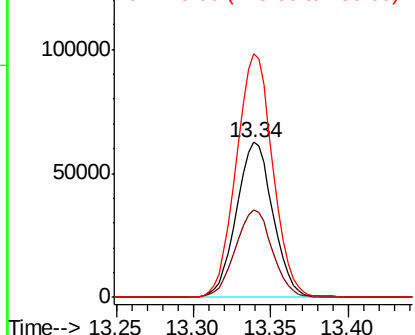
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.0	30.3	90.9
150	157.2	0.0	345.2



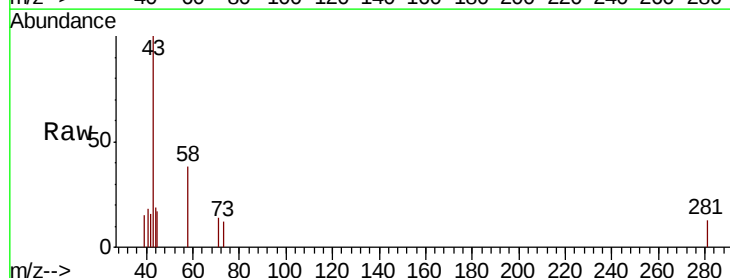
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



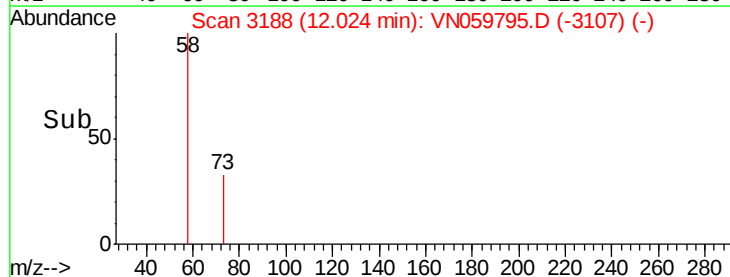
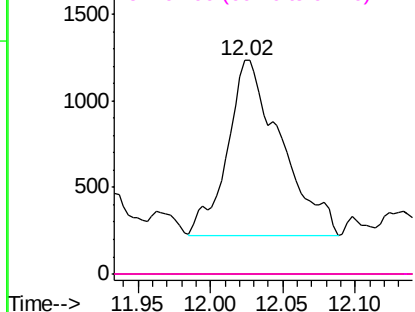
#74

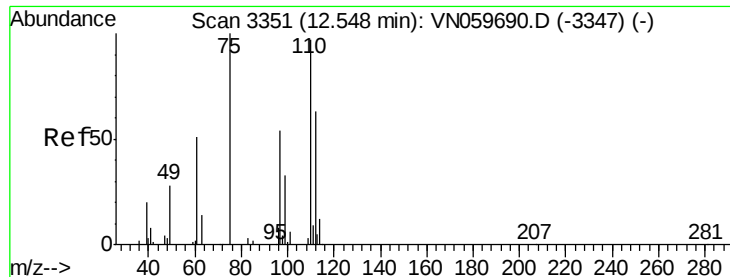
N-ethyl acetate
Concen: 0.897 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN059795.D
Acq: 20 Jan 2020 18:27

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	0.0	19.8	29.6#
61	0.0	18.3	27.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.369 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

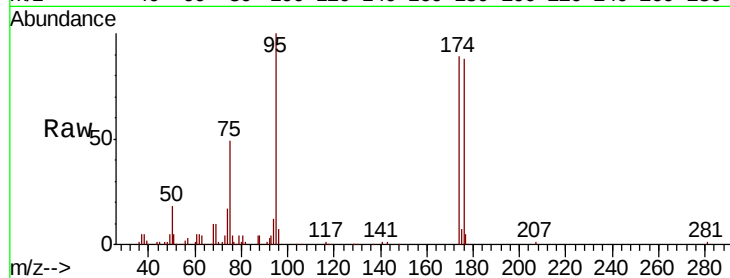
ClientSampled :

Tot Ion: 75 Resp: 55955

Ion Ratio Lower Upper

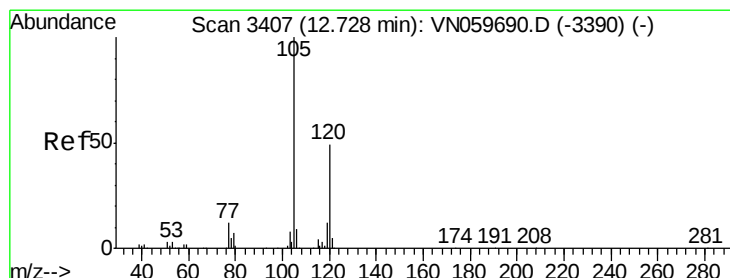
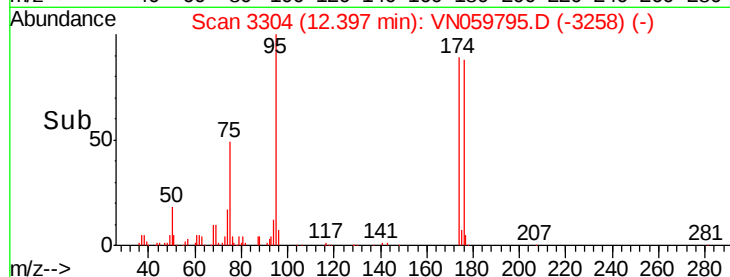
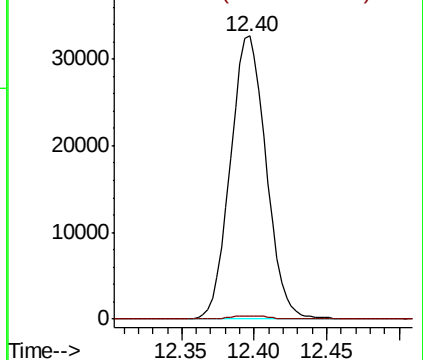
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059690.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.323 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059795.D

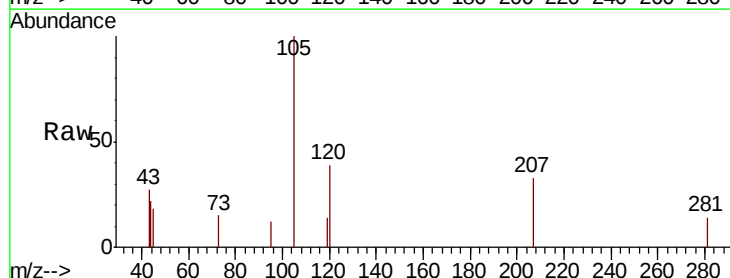
Acq: 20 Jan 2020 18:27

Tgt Ion: 105 Resp: 2045

Ion Ratio Lower Upper

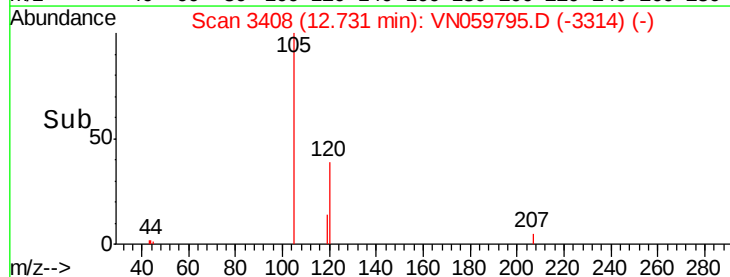
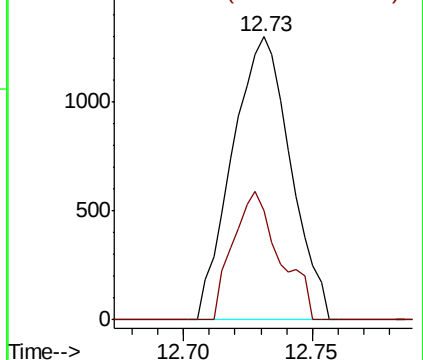
105 100

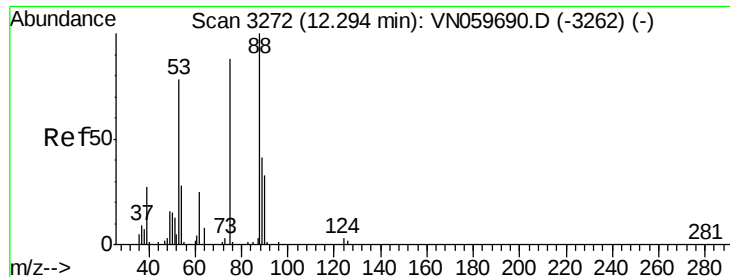
120 36.5 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059690.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059690.D (-3390) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 69.512 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

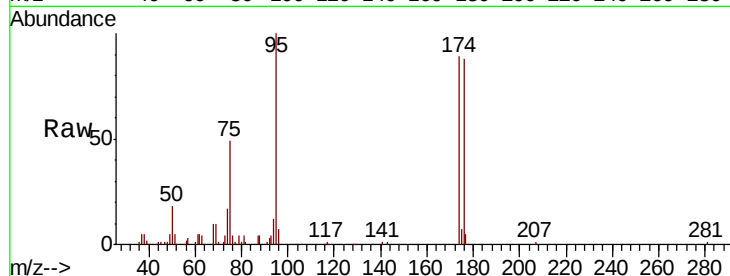
Tot Ion: 75 Resp: 55955

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

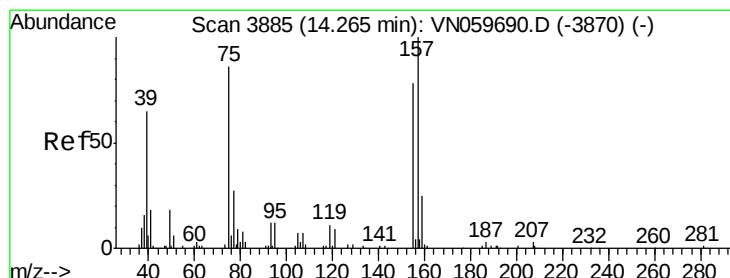
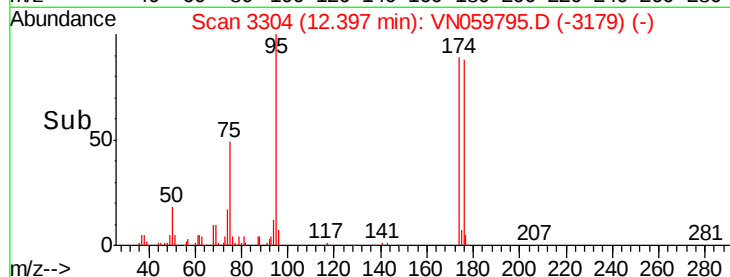
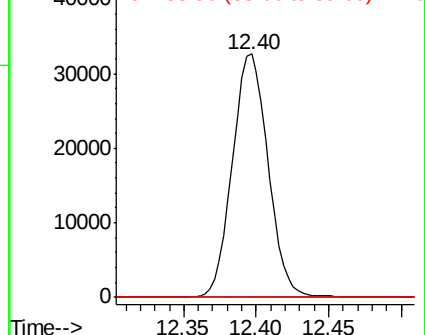
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): 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: 14.33 min Scan# 3905

Delta R.T. 0.07 min

Lab File: VN059795.D

Acq: 20 Jan 2020 18:27

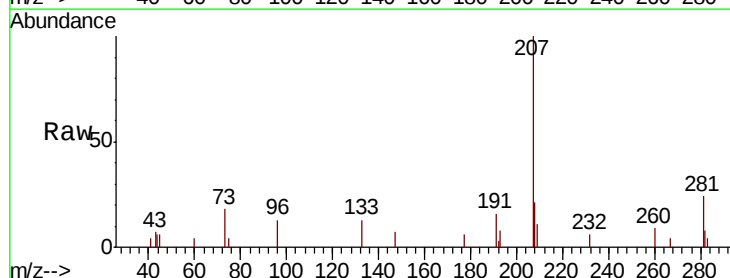
Tgt Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

