

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059797.D
 Acq On : 20 Jan 2020 19:14
 Operator : JC/MD
 Sample : PB126173ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:20:51 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	201707	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	302448	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	265051	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	110163	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	105222	46.97	ug/l	0.00
Spiked Amount						
			Recovery	=	93.94%	
35) Dibromofluoromethane	7.57	113	93266	51.71	ug/l	0.00
Spiked Amount						
			Recovery	=	103.42%	
50) Toluene-d8	10.08	98	351284	50.27	ug/l	0.00
Spiked Amount						
			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.40	95	118199	46.92	ug/l	0.00
Spiked Amount						
			Recovery	=	93.84%	

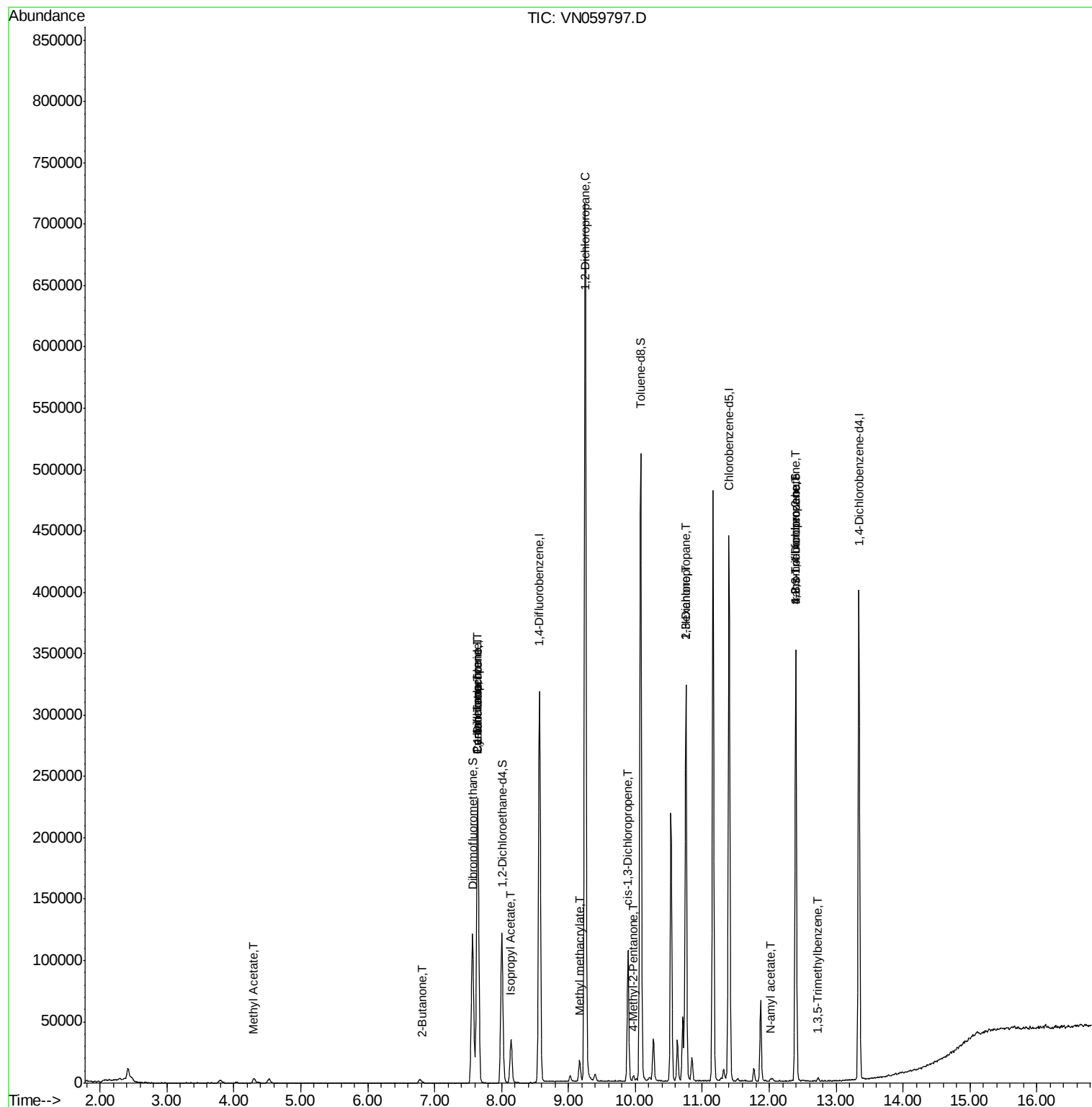
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4278	Below Cal		96
18) Methyl Acetate	4.30	43	6753	2.581	ug/l	92
25) 2-Butanone	6.82	43	403	0.318	ug/l #	50
31) Cyclohexane	7.64	56	3852	1.162	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13375	5.078	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18084	6.312	ug/l #	16
43) Isopropyl Acetate	8.14	43	42536	10.011	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	886	0.456	ug/l #	44
48) Methyl methacrylate	9.16	41	2314	1.218	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2603	1.060	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	20444	6.298	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3383	1.084	ug/l #	42
59) 2-Hexanone	10.75	43	44856	24.789	ug/l #	55
74) N-amyl acetate	12.02	43	1811	0.578	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	58005	31.288	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1945	0.286	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	58005	67.190	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.35	75	95	Below Cal	#	6

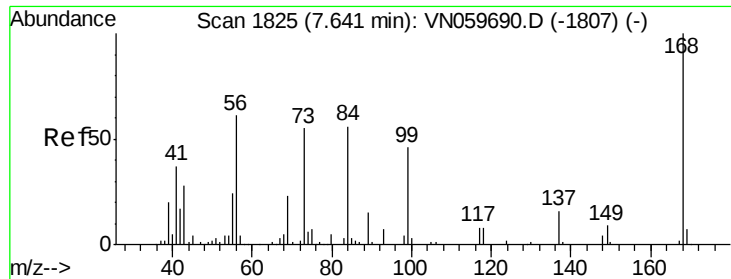
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

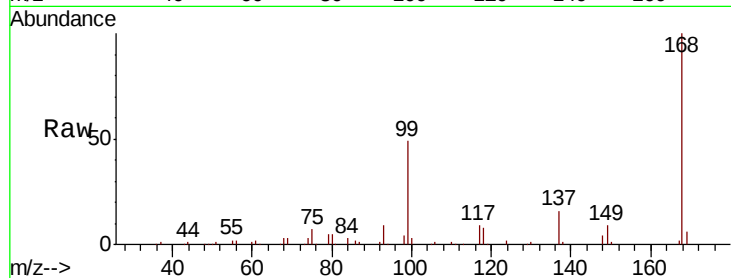
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 201707

Ion Ratio Lower Upper

168 100

99 49.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059797.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059797.D (-1732) (-)

7.64

80000

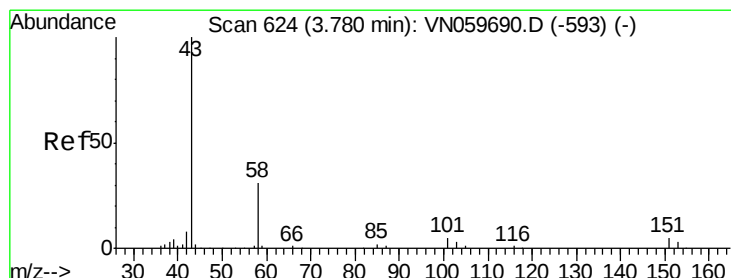
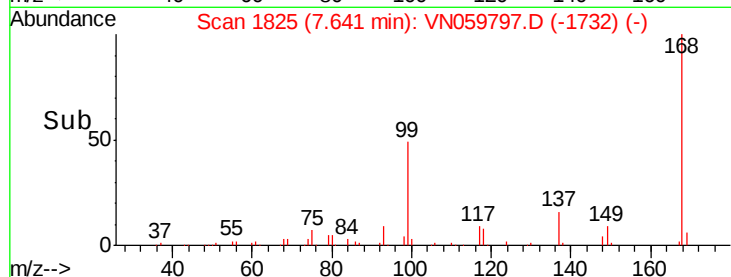
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059797.D

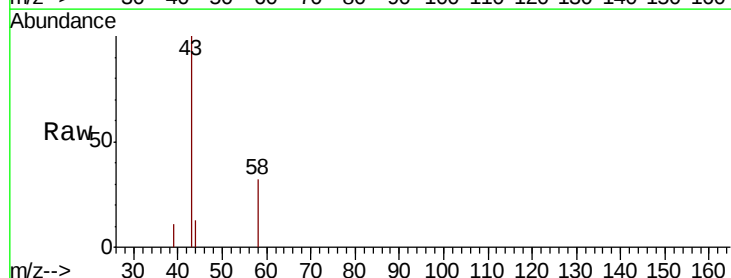
Acq: 20 Jan 2020 19:14

Tgt Ion: 43 Resp: 4278

Ion Ratio Lower Upper

43 100

58 31.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059797.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059797.D (-530) (-)

3.79

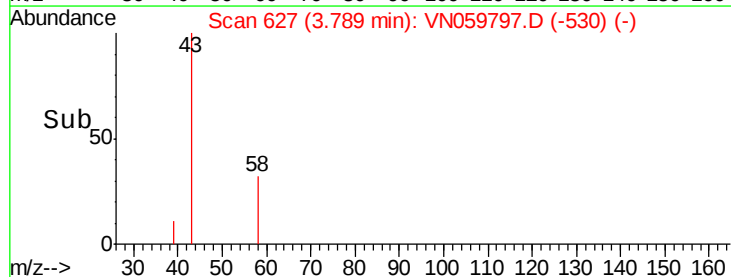
1500

1000

500

0

Time--> 3.70 3.75 3.80 3.85 3.90

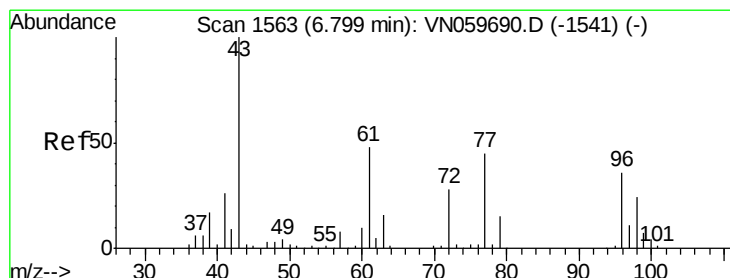
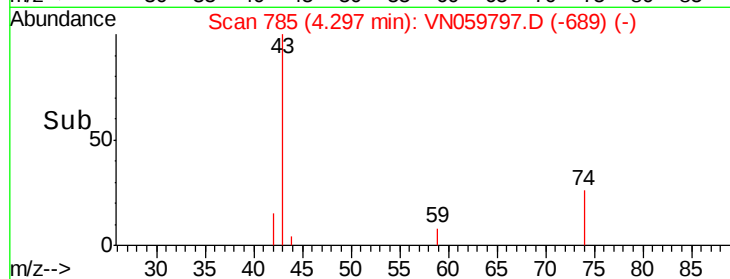
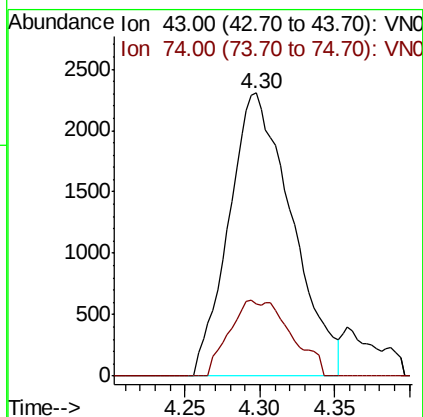
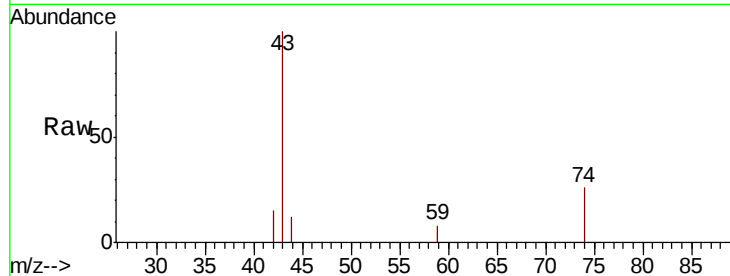




#18
Methvl Acetate
Concen: 2.581 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

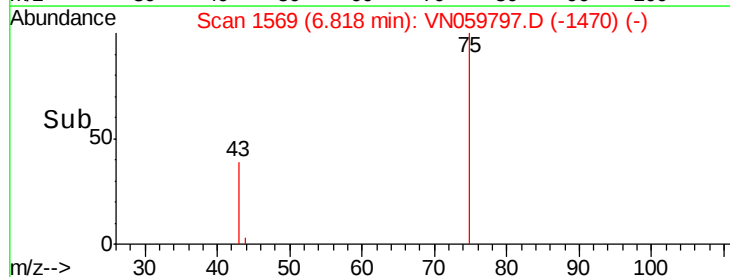
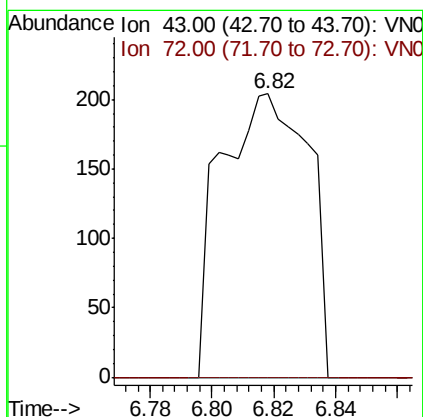
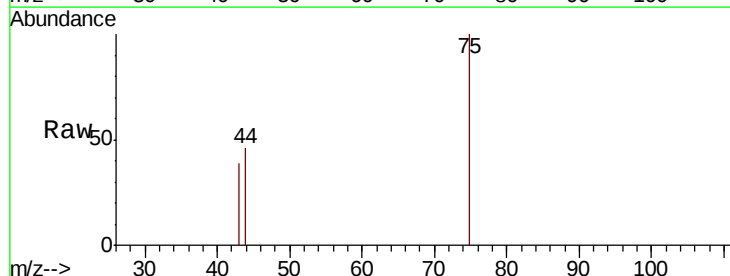
Instrument :
MSVOA_N
ClientSampled :

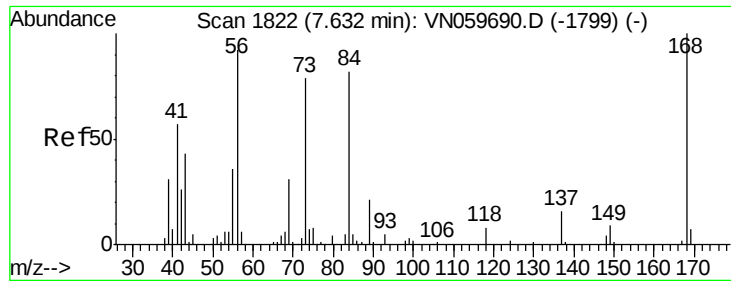
Tot Ion: 43 Resp: 6753
Ion Ratio Lower Upper
43 100
74 25.9 17.5 26.3



#25
2-Butanone
Concen: 0.318 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Tgt Ion: 43 Resp: 403
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

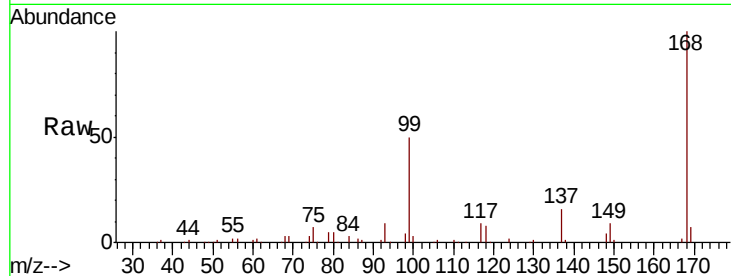




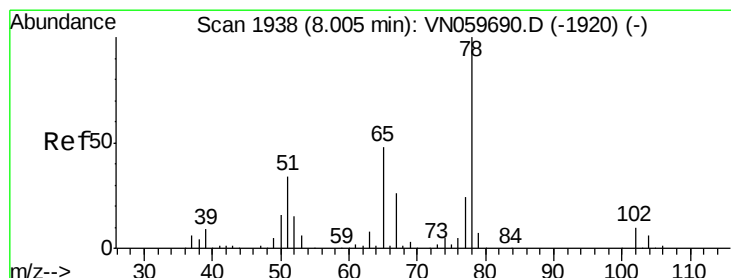
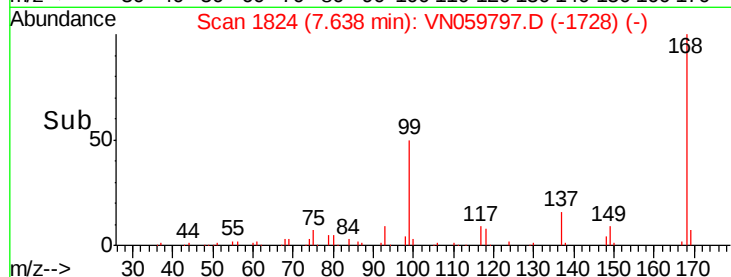
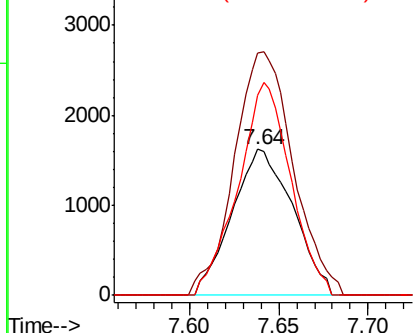
#31
Cyclohexane
Concen: 1.162 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3852
Ion Ratio Lower Upper
56 100
69 166.4 26.5 39.7#
84 137.1 65.3 97.9#

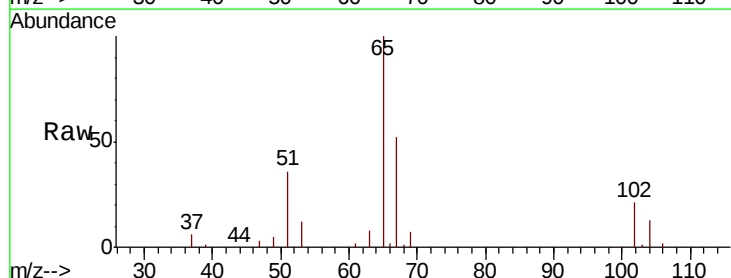


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

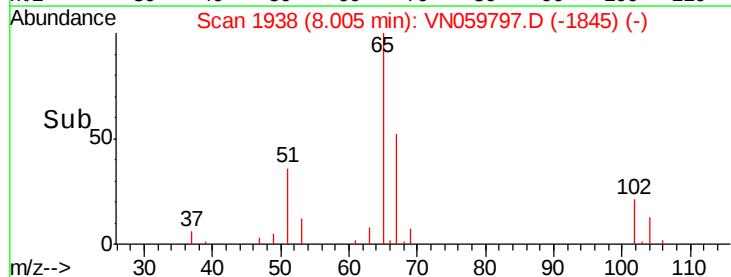
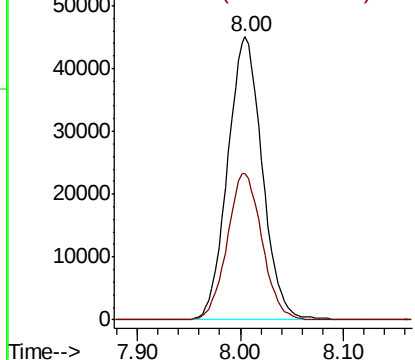


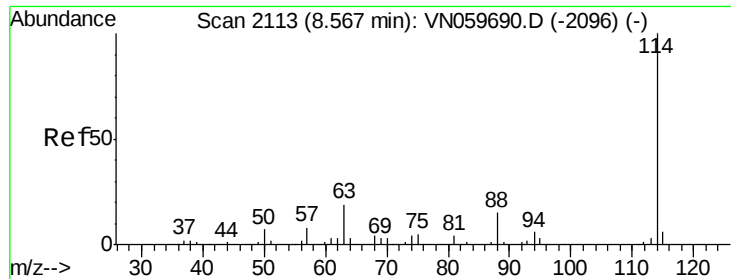
#33
1,2-Dichloroethane-d4
Concen: 46.974 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Tgt Ion: 65 Resp: 105222
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.0



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

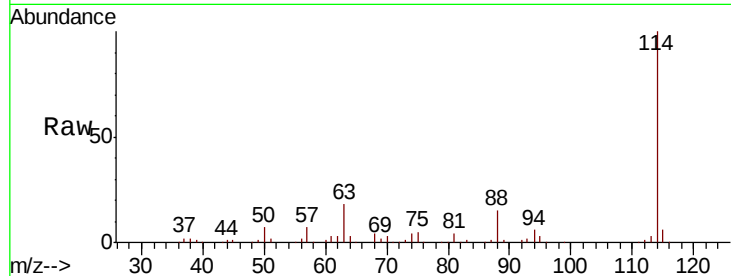




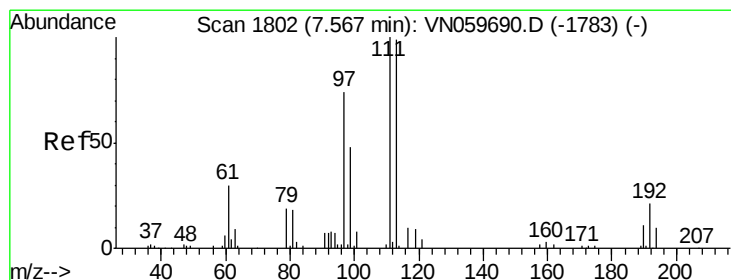
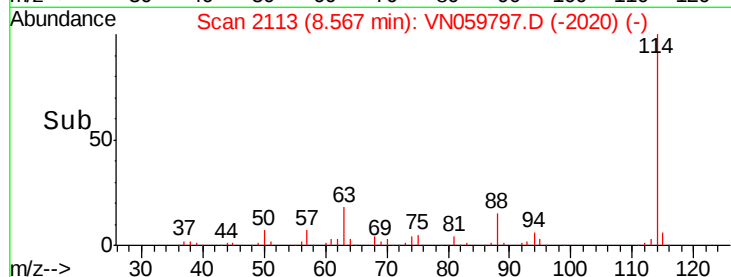
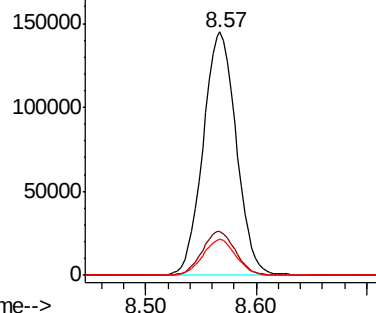
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 302448
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 43.6
 88 15.1 0.0 31.4

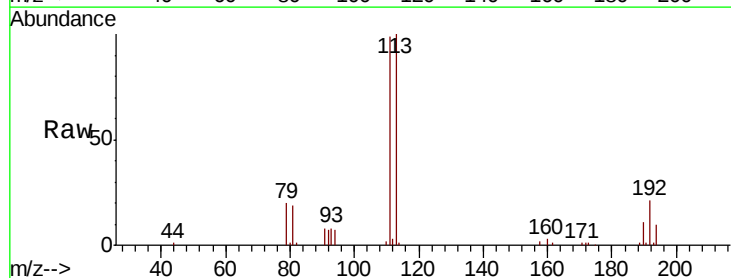


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

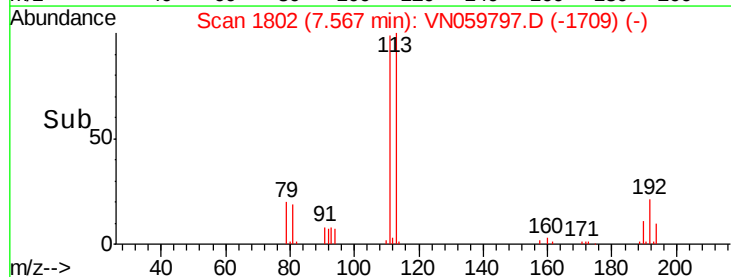
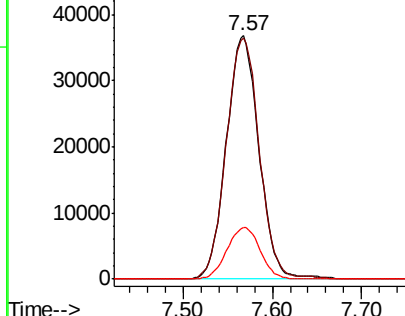


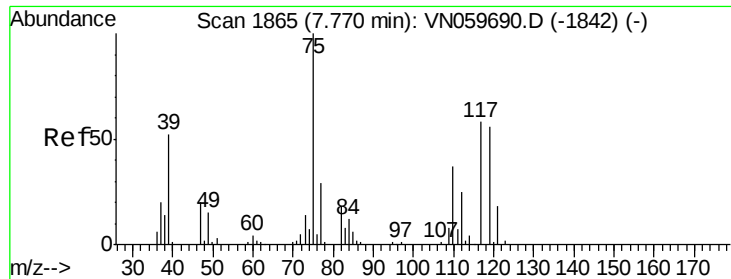
#35
 Dibromofluoromethane
 Concen: 51.710 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

Tgt Ion:113 Resp: 93266
 Ion Ratio Lower Upper
 113 100
 111 100.0 83.5 125.3
 192 21.6 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

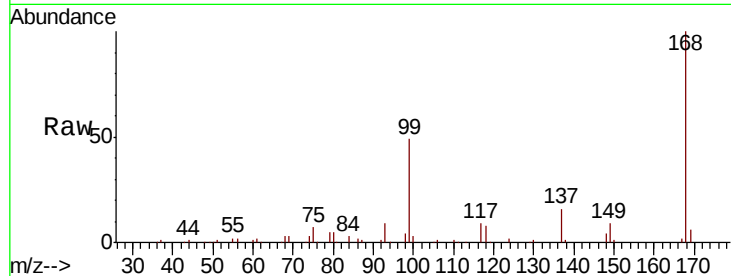




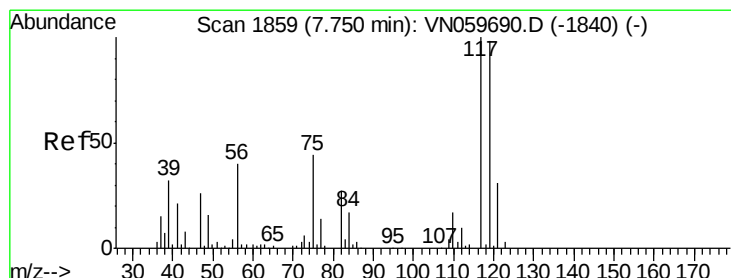
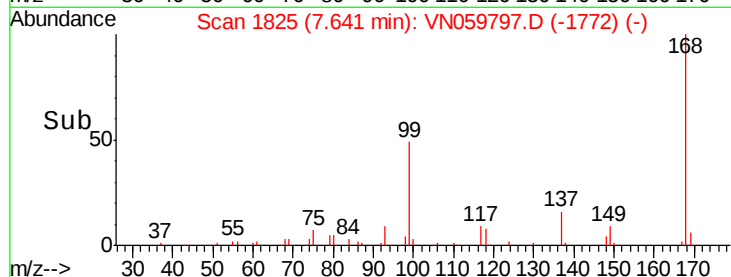
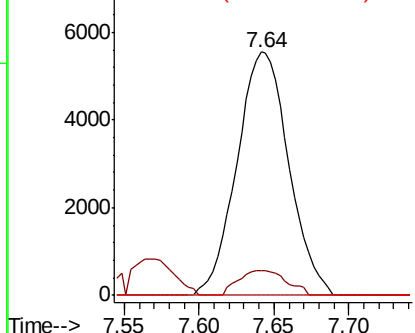
#36
 1,1-Dichloropropene
 Concen: 5.078 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.6	49.7#
77	0.0	25.1	37.7#

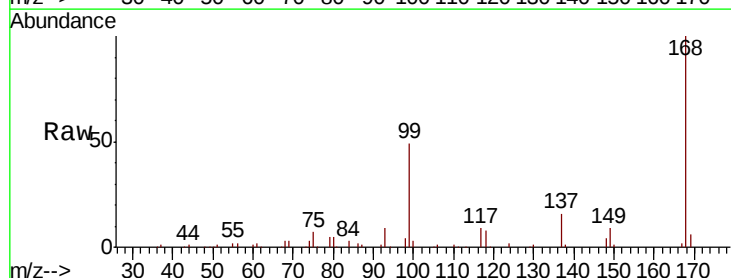


Abundance Ion 74.90 (74.60 to 75.60): VN059797.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN059797.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN059797.D (-1772) (-)

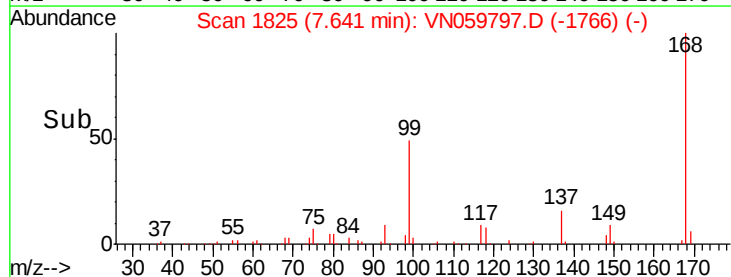
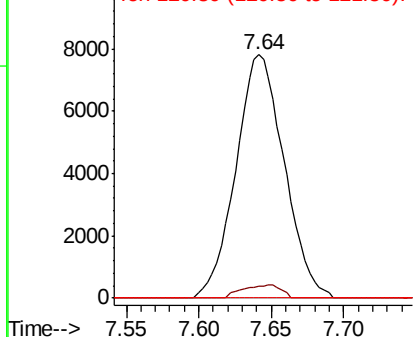


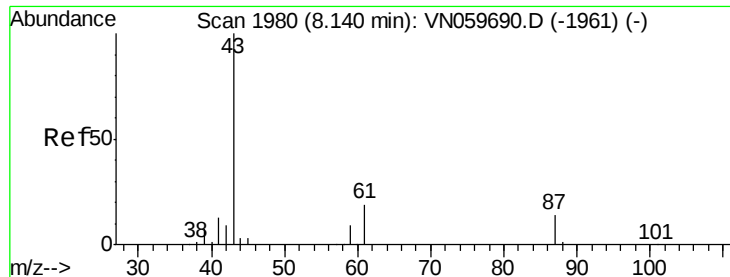
#38
 Carbon Tetrachloride
 Concen: 6.312 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059797.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN059797.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN059797.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 10.011 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

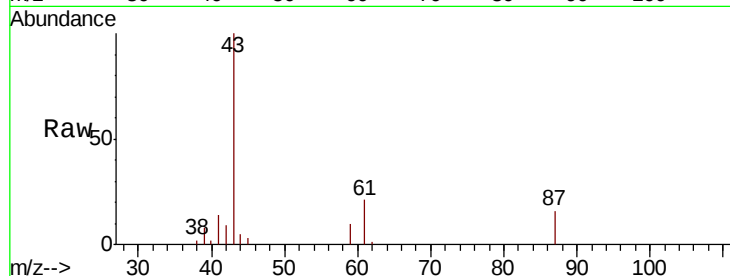
Tot Ion: 43 Resp: 42536

Ion Ratio Lower Upper

43 100

61 20.1 20.2 30.2#

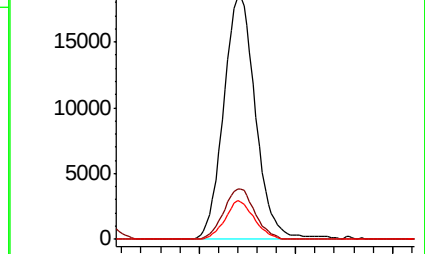
87 14.3 9.5 14.3#



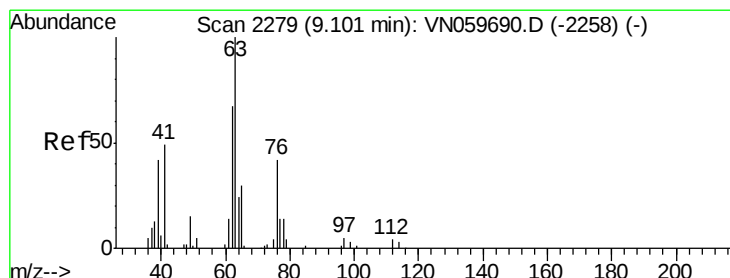
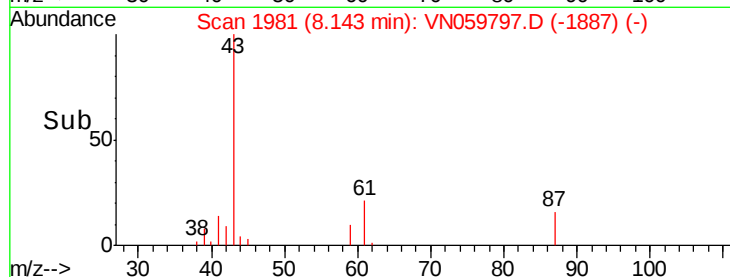
Abundance Ion 43.00 (42.70 to 43.70): VN059797.D (-1987) (-)

Ion 61.00 (60.70 to 61.70): VN059797.D (-1987) (-)

Ion 87.00 (86.70 to 87.70): VN059797.D (-1987) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.456 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059797.D

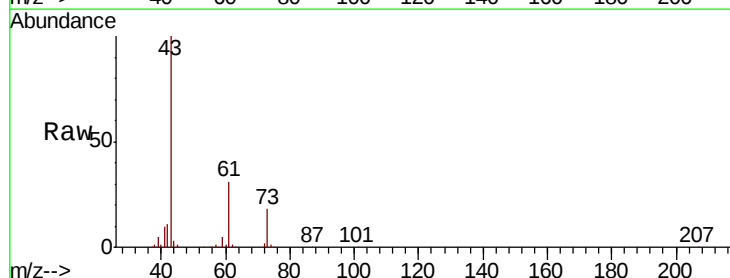
Acq: 20 Jan 2020 19:14

Tgt Ion: 63 Resp: 886

Ion Ratio Lower Upper

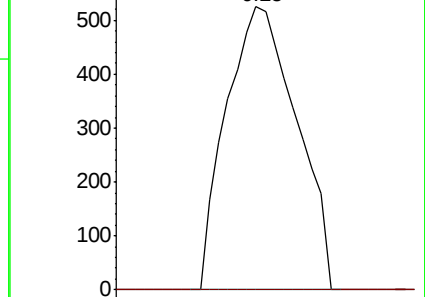
63 100

65 0.0 24.9 37.3#

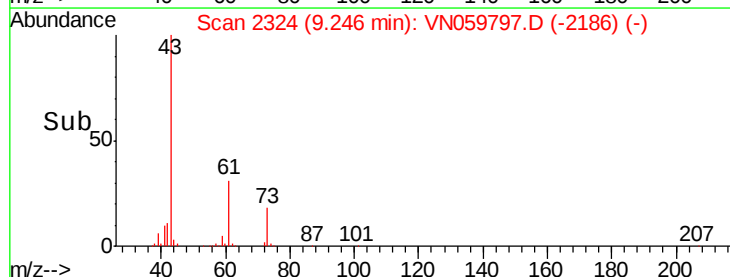


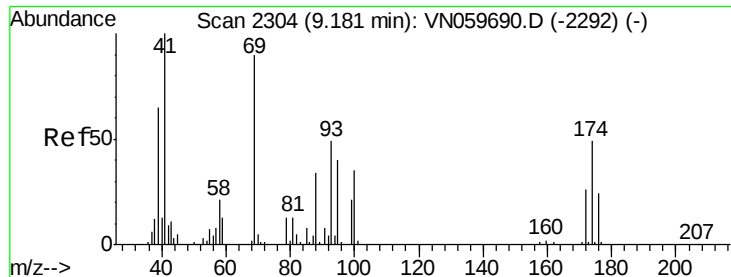
Abundance Ion 62.90 (62.60 to 63.60): VN059797.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059797.D (-2186) (-)



Time-->

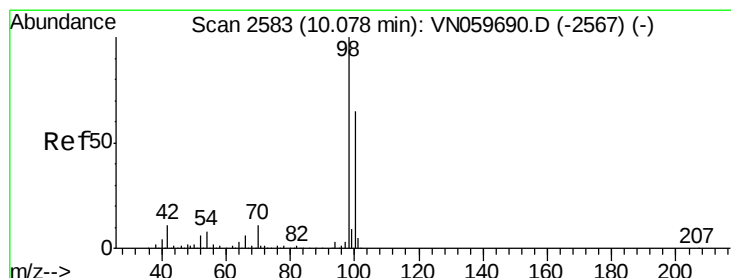
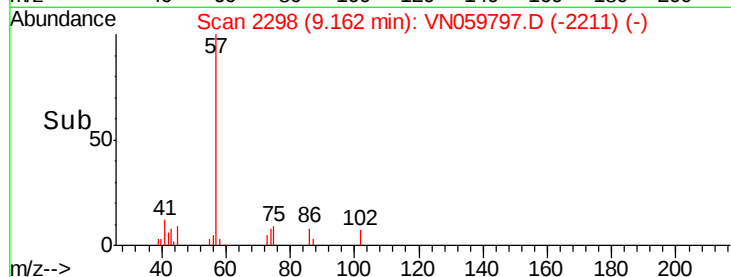
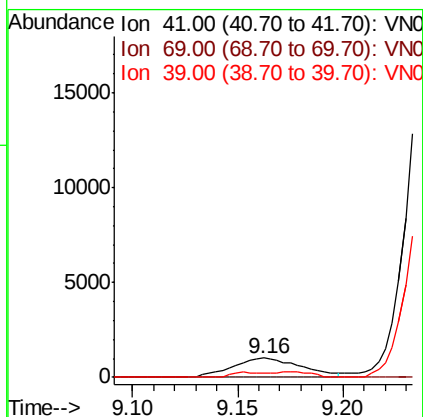
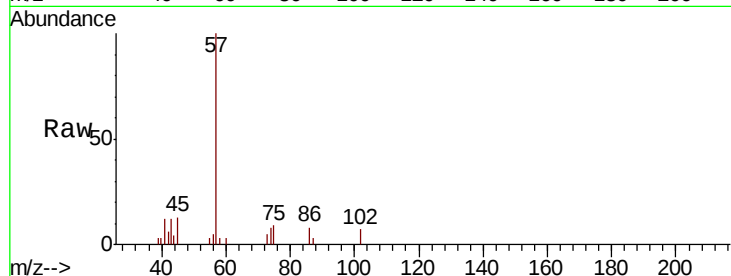




#48
Methvl methacrylate
Concen: 1.218 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

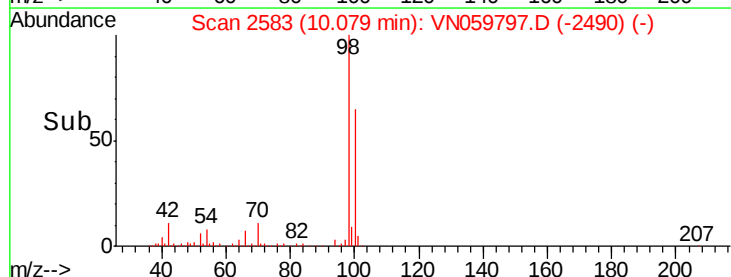
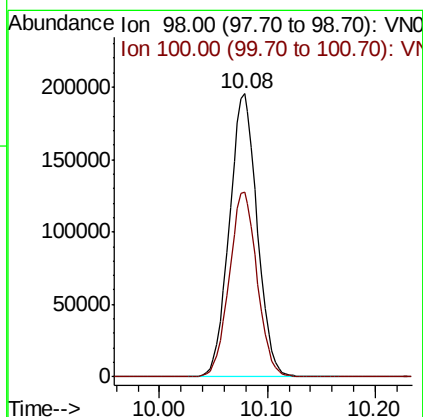
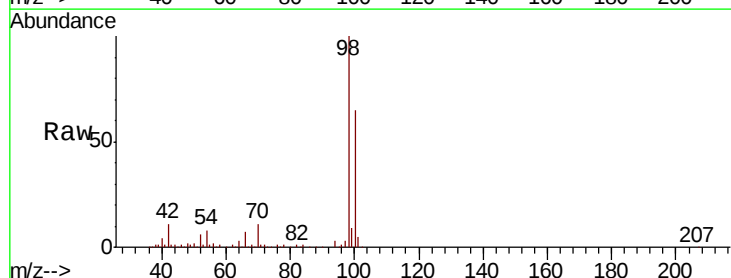
Instrument :
MSVOA_N
ClientSampleId :

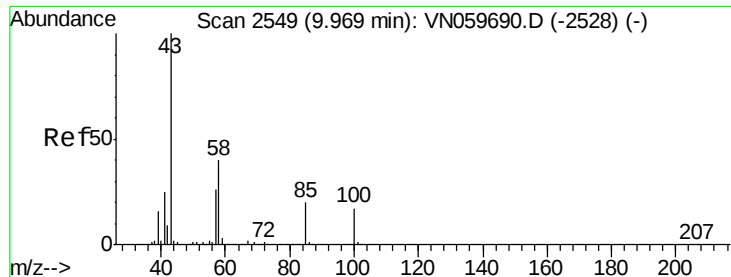
Tot Ion: 41 Resp: 2314
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.268 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Tgt Ion: 98 Resp: 351284
Ion Ratio Lower Upper
98 100
100 65.3 51.2 76.8

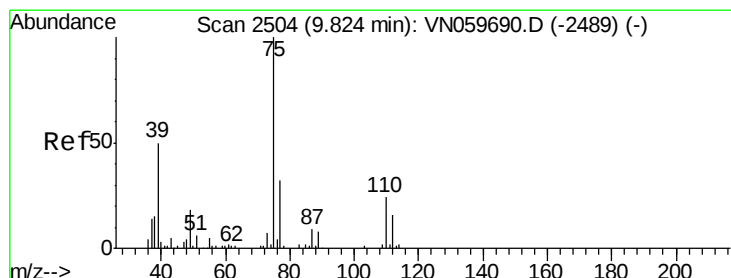
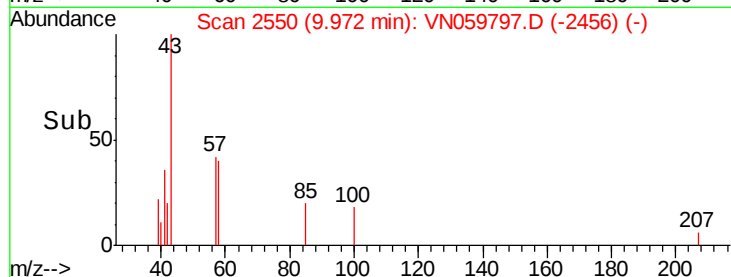
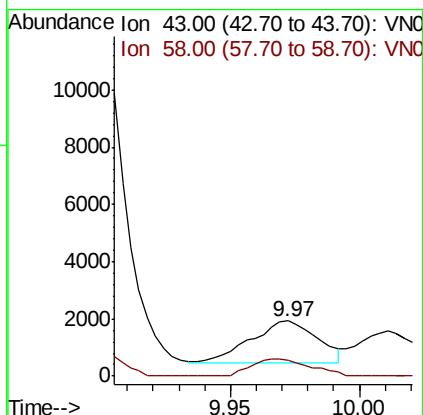
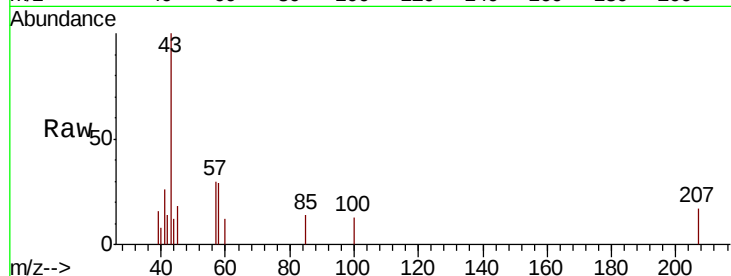




#51
4-Methyl-2-Pentanone
Concen: 1.060 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

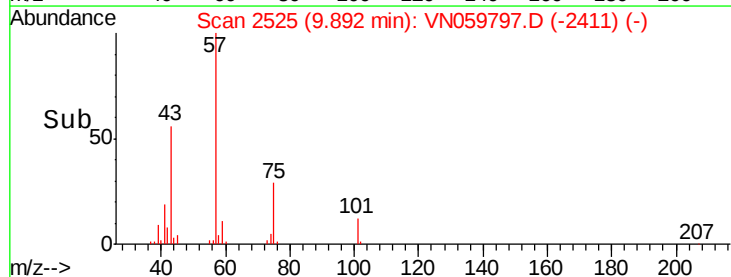
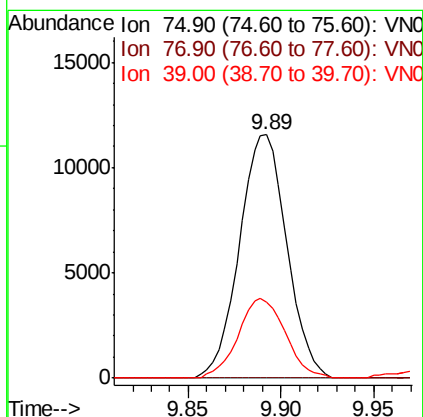
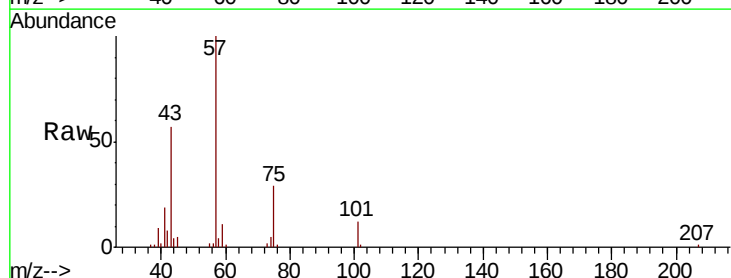
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2603
Ion Ratio Lower Upper
43 100
58 36.8 29.8 44.8



#54
cis-1,3-Dichloropropene
Concen: 6.298 ug/l
RT: 9.89 min Scan# 2525
Delta R.T. 0.07 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Tgt Ion: 75 Resp: 20444
Ion Ratio Lower Upper
75 100
77 0.0 25.1 37.7#
39 31.1 46.1 69.1#

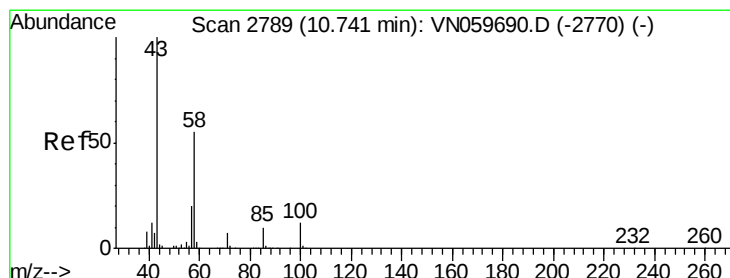
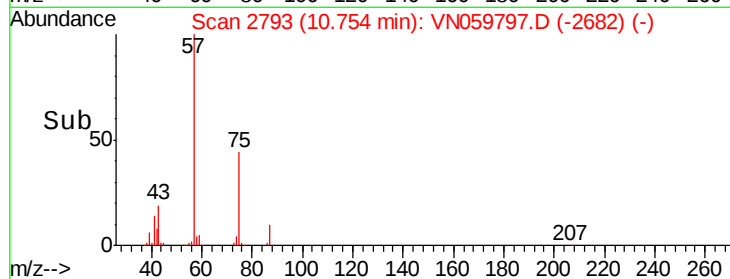
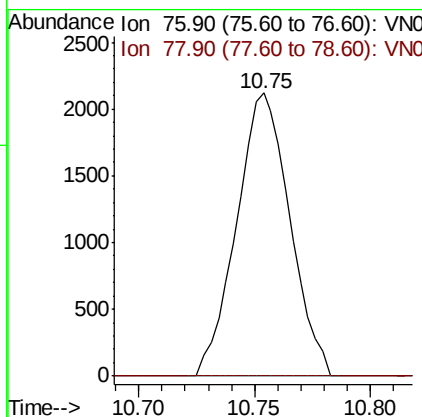
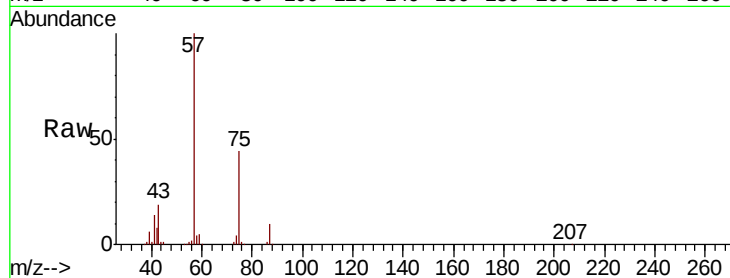




#57
 1,3-Dichloropropane
 Concen: 1.084 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

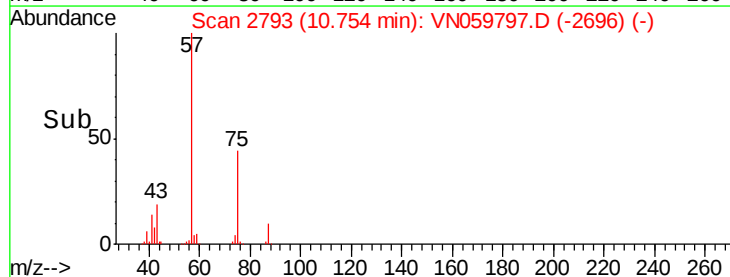
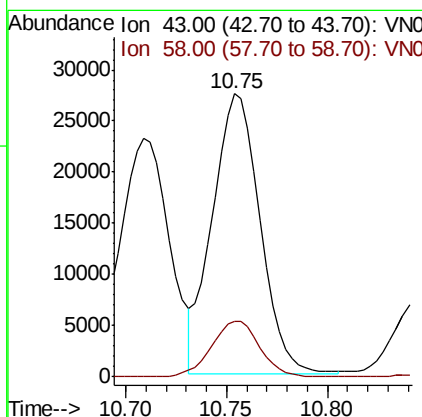
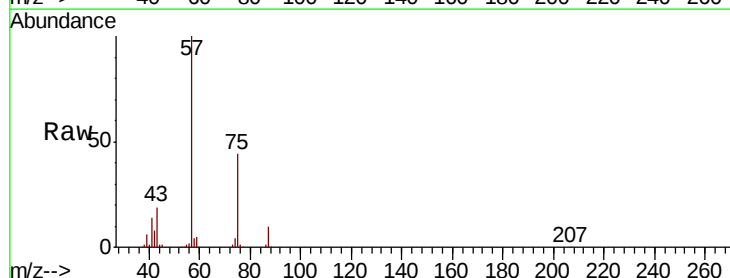
Instrument :
 MSVOA_N
 ClientSampleId :

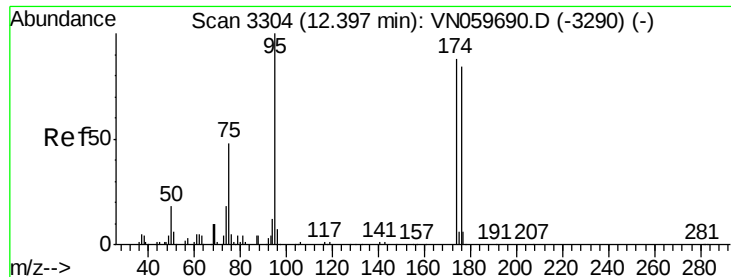
Tot Ion: 76 Resp: 3383
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.789 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059797.D
 Acq: 20 Jan 2020 19:14

Tgt Ion: 43 Resp: 44856
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.8 77.3#

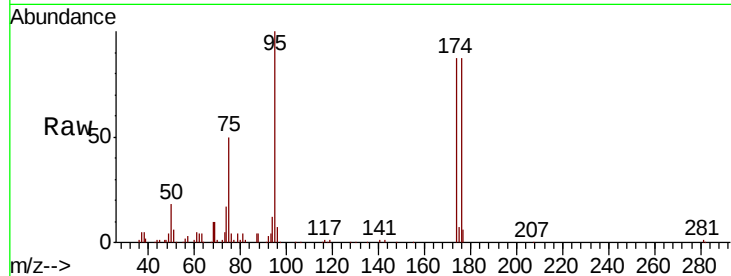




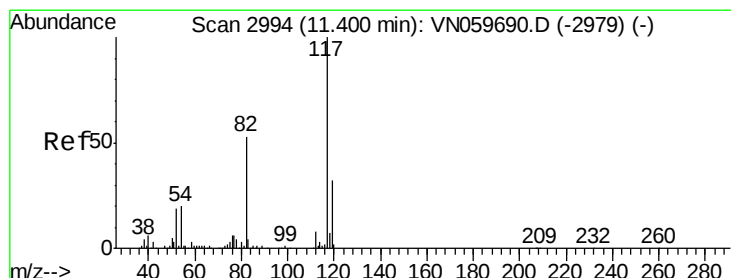
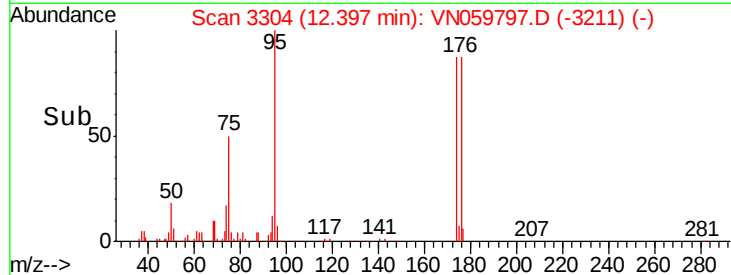
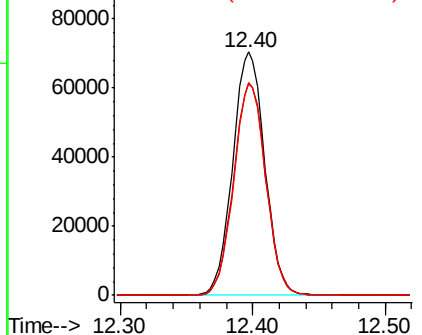
#62
4-Bromofluorobenzene
Concen: 46.919 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 118199
Ion Ratio Lower Upper
95 100
174 87.8 0.0 151.4
176 86.5 0.0 146.0

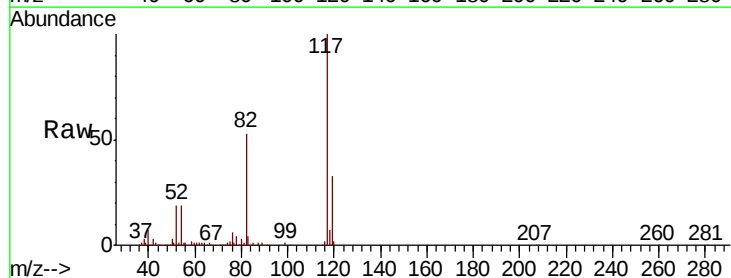


Abundance Ion 94.90 (94.60 to 95.60): VN059690.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN059690.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN059690.D (-3290) (-)

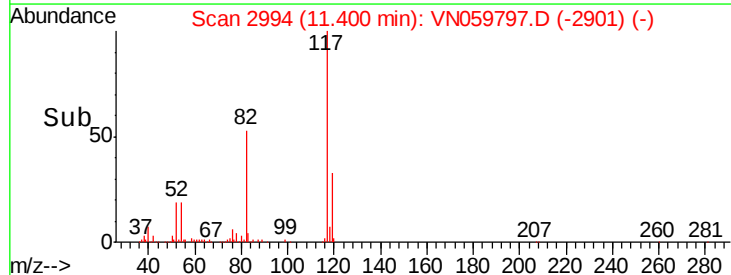
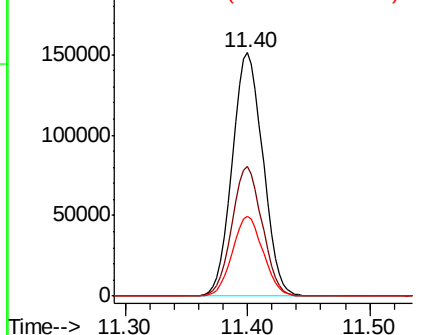


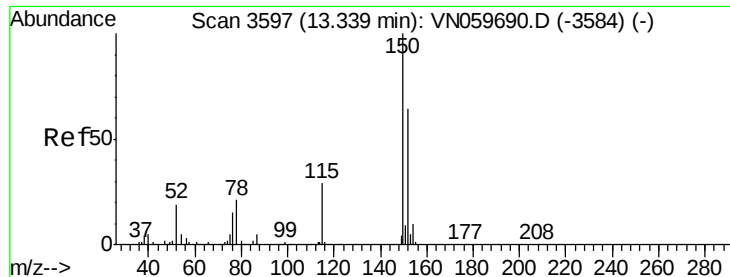
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059797.D
Acq: 20 Jan 2020 19:14

Tgt Ion: 117 Resp: 265051
Ion Ratio Lower Upper
117 100
82 53.0 45.9 68.9
119 33.0 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN059690.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059690.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059690.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

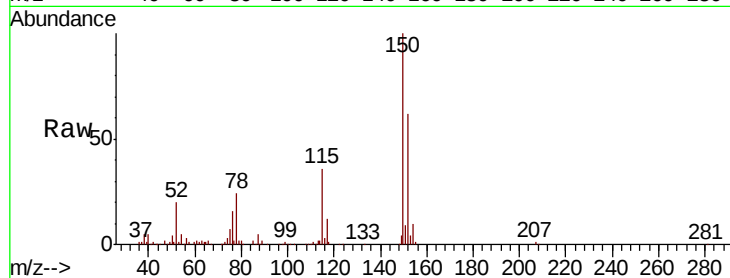
Tot Ion:152 Resp: 110163

Ion Ratio Lower Upper

152 100

115 57.3 30.3 90.9

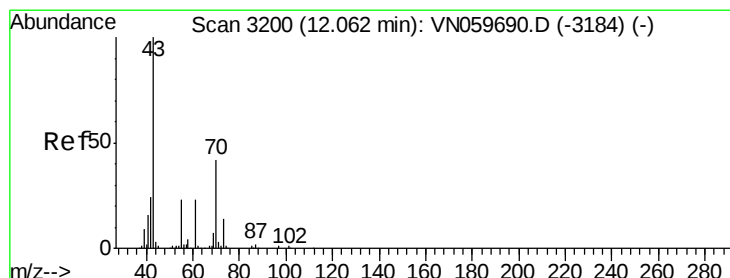
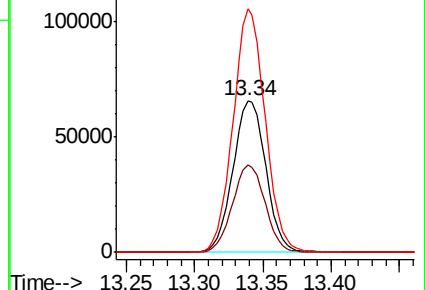
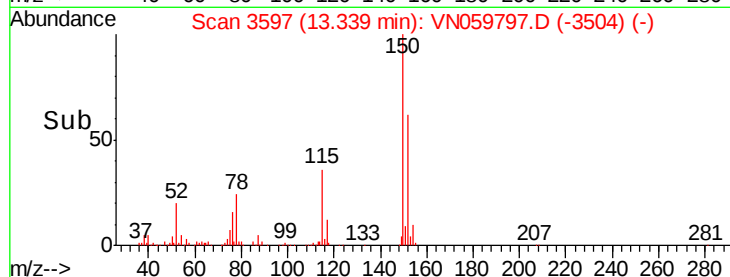
150 156.5 0.0 345.2



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: 0.578 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

Tgt Ion: 43 Resp: 1811

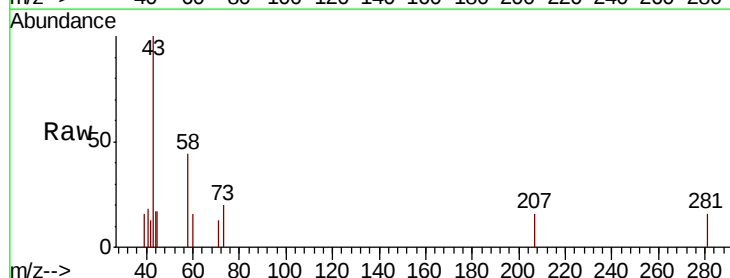
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

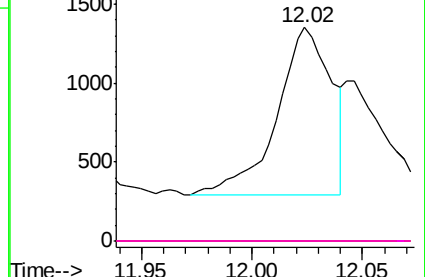
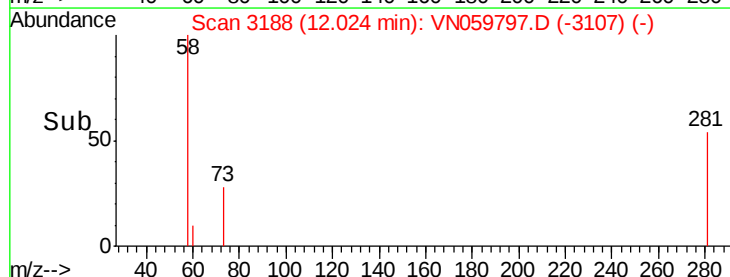


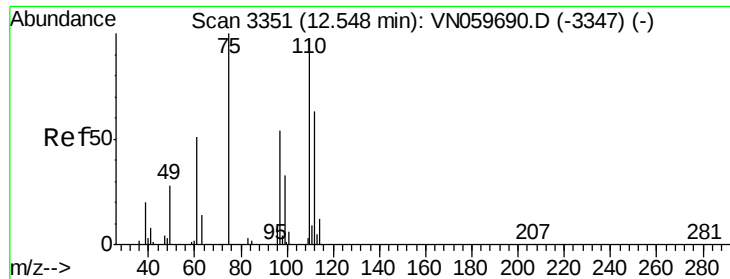
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.288 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

Instrument :

MSVOA_N

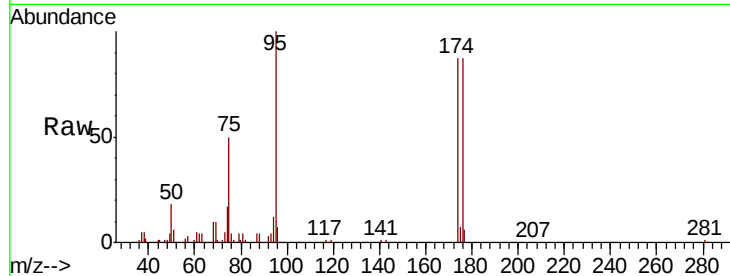
ClientSampled :

Tot Ion: 75 Resp: 58005

Ion Ratio Lower Upper

75 100

77 0.8 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) (-)

12.40

40000

30000

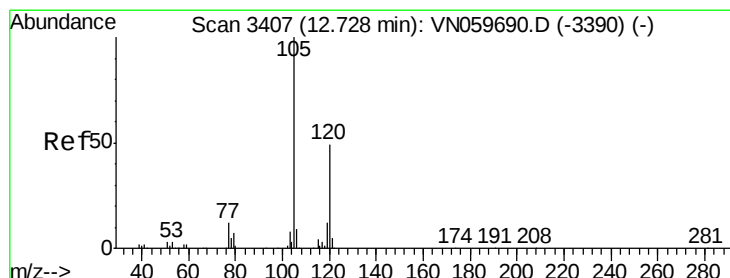
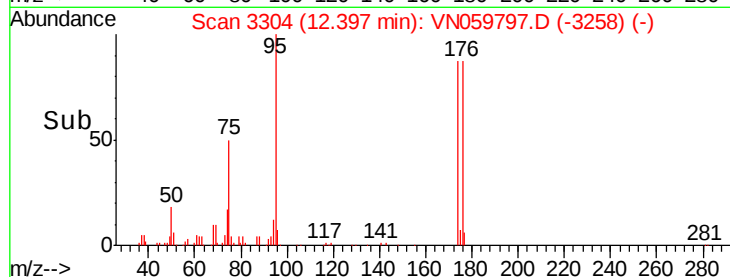
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.286 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059797.D

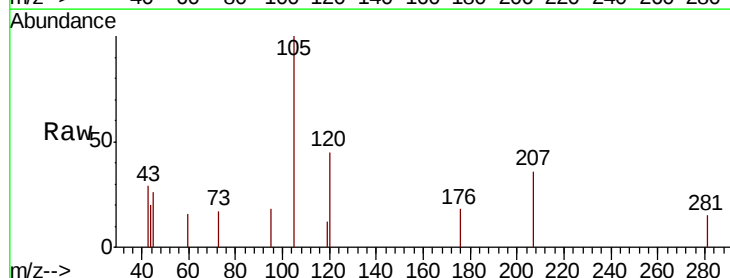
Acq: 20 Jan 2020 19:14

Tgt Ion: 105 Resp: 1945

Ion Ratio Lower Upper

105 100

120 47.4 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) (-)

12.73

1500

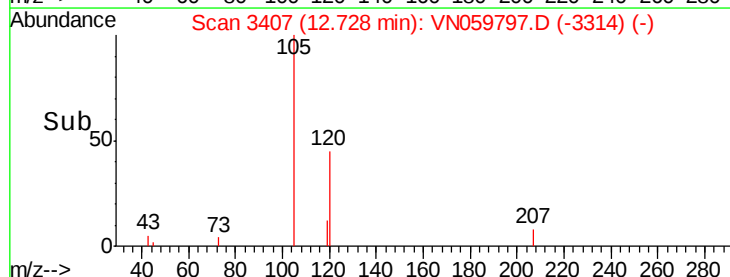
1000

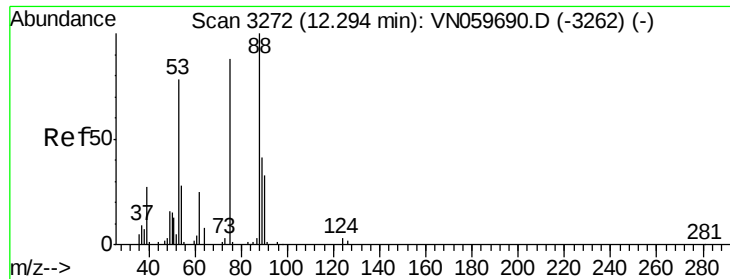
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 67.190 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

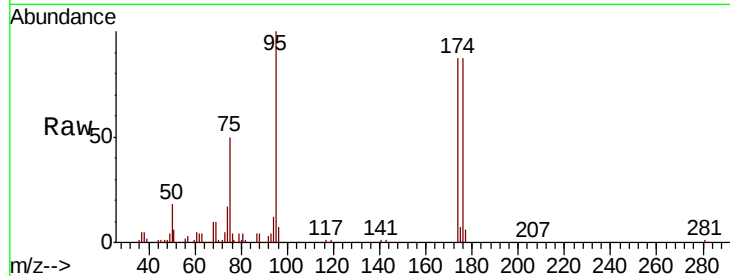
Tot Ion: 75 Resp: 58005

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

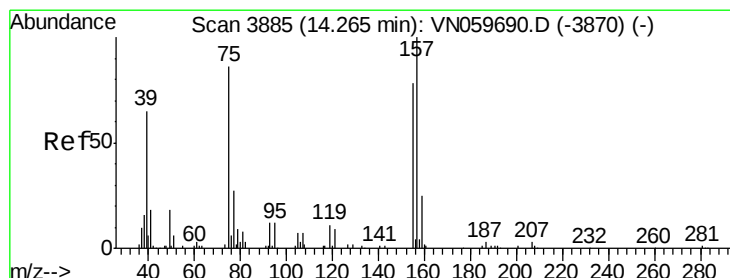
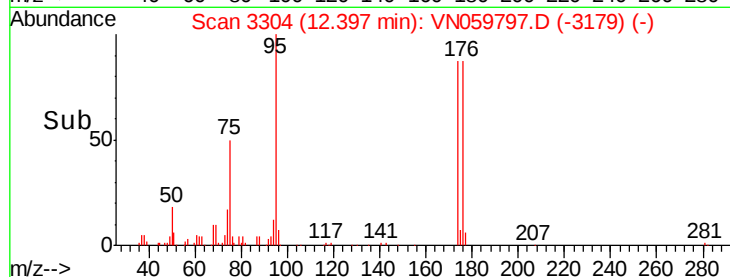
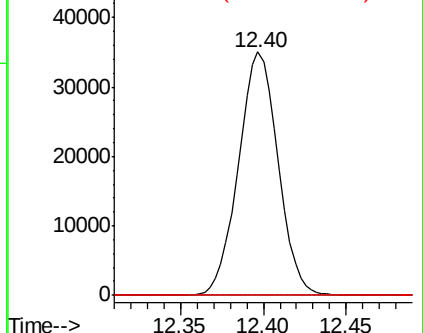
89 0.0 35.4 53.2#



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: 14.35 min Scan# 3912

Delta R.T. 0.09 min

Lab File: VN059797.D

Acq: 20 Jan 2020 19:14

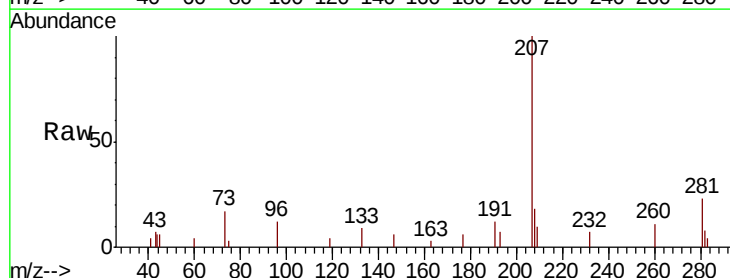
Tgt Ion: 75 Resp: 95

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

