

Data File : VN057777.D
Acq On : 8 Sep 2019 1:01
Operator : JC/SP
Sample : K4601-26
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-E1-(2.7)

Quant Time: Sep 08 06:45:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	199687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	322029	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	295777	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	153858	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	239500	49.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.60%	
35) Dibromofluoromethane	7.58	113	145758	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
50) Toluene-d8	10.09	98	542648	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	200085	44.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.80%	

Target Compounds

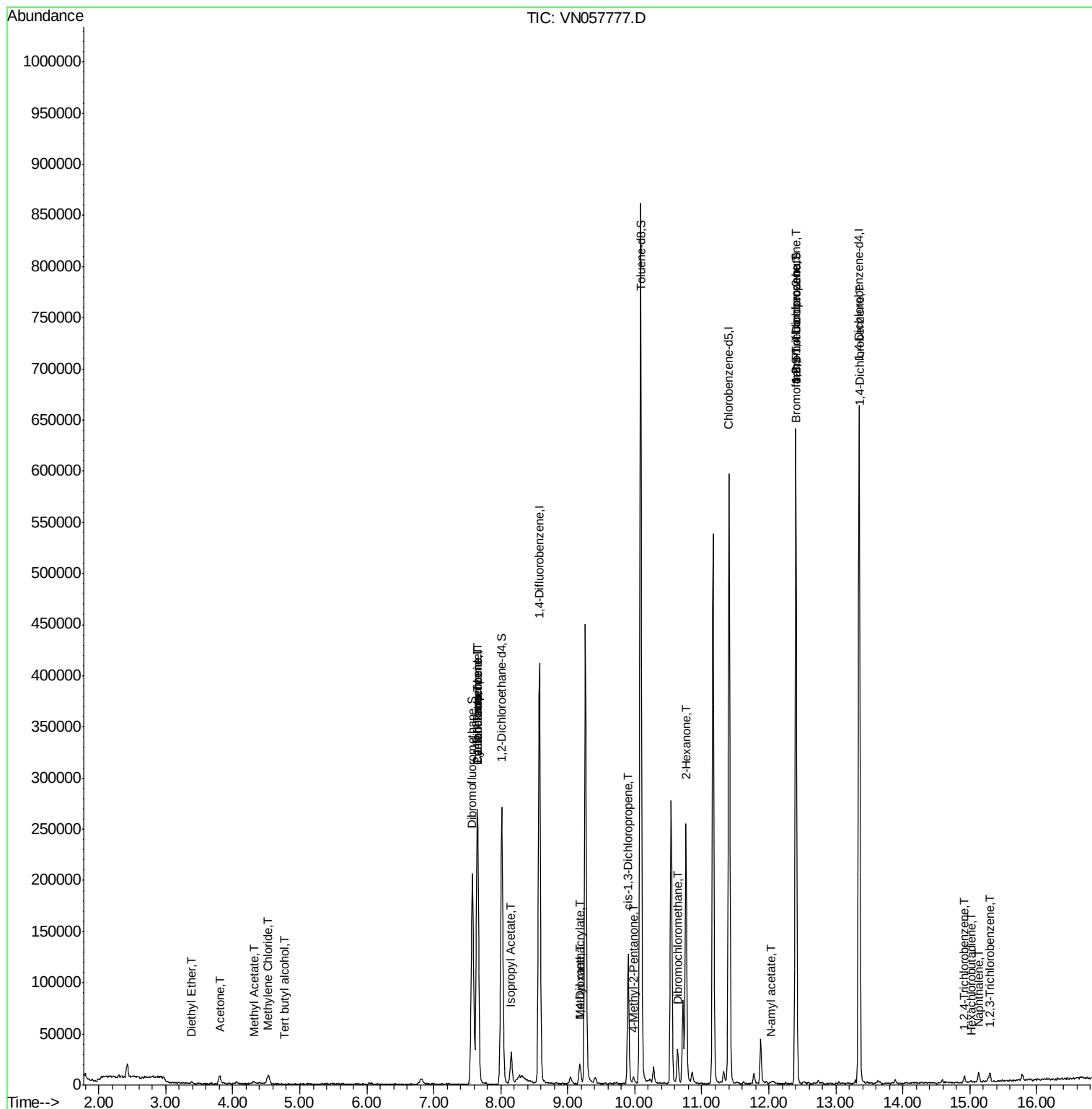
					Qvalue	
3) Chloromethane	2.03	50	637	Below Cal	#	82
8) Diethyl Ether	3.39	74	516	0.293	ug/l #	45
11) Tert butyl alcohol	4.76	59	143	0.259	ug/l #	71
16) Acetone	3.81	43	11088	7.417	ug/l	93
18) Methyl Acetate	4.32	43	3287	0.809	ug/l #	71
20) Methylene Chloride	4.53	84	5608	1.735	ug/l	96
31) Cyclohexane	7.65	56	6660	1.221	ug/l #	45
36) 1,1-Dichloropropene	7.65	75	18815	4.392	ug/l #	54
38) Carbon Tetrachloride	7.65	117	22386	5.457	ug/l #	15
43) Isopropyl Acetate	8.16	43	37548	4.599	ug/l	99
48) Methyl methacrylate	9.17	41	3434	0.818	ug/l #	41
49) 1,4-Dioxane	9.18	88	113	2.313	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3331	0.735	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	17880	3.570	ug/l #	62
59) 2-Hexanone	10.76	43	43454	13.592	ug/l #	57
60) Dibromochloromethane	10.63	129	31	1.863	ug/l #	11
71) Bromoform	12.39	173	76	3.277	ug/l #	1
74) N-amyl acetate	12.04	43	1717	0.253	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	118736	33.606	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	118736	104.516	ug/l #	1
88) 1,4-Dichlorobenzene	13.36	146	1276	0.231	ug/l #	22
93) 1,2,4-Trichlorobenzene	14.92	180	1978	0.608	ug/l	92
94) Hexachlorobutadiene	15.01	225	445	0.281	ug/l #	56
95) Naphthalene	15.13	128	7951	0.842	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	2107	0.676	ug/l	75

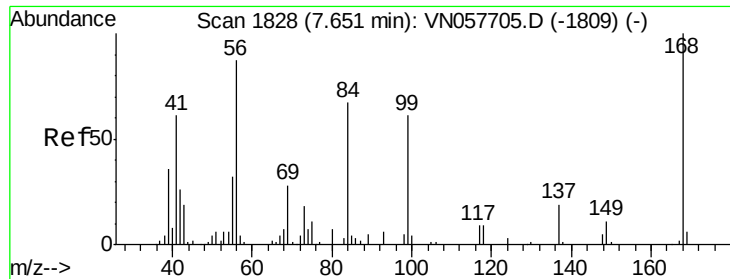
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampleId :

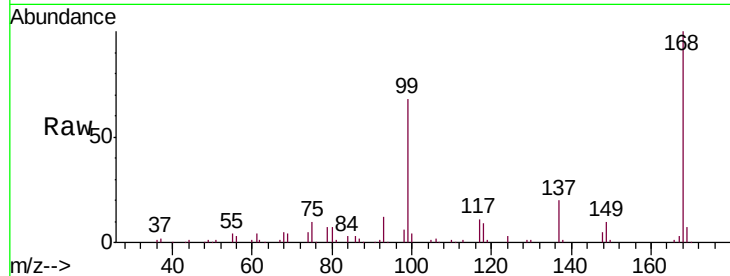
T12-E1-(2.7)

Tgt Ion:168 Resp: 199687

Ion Ratio Lower Upper

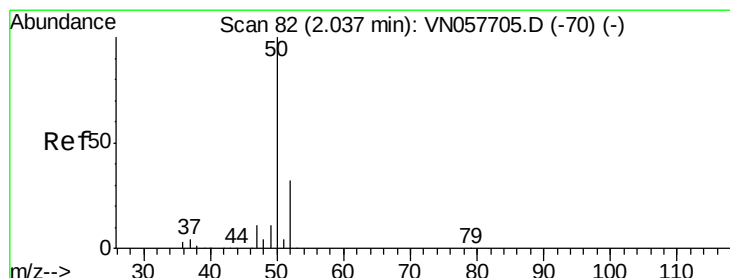
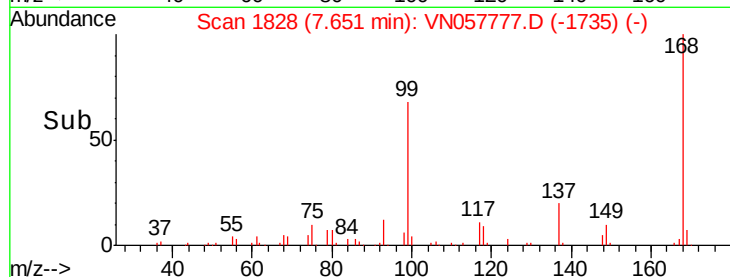
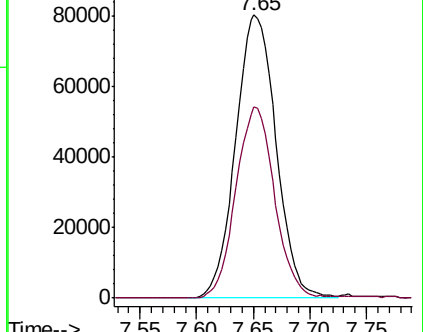
168 100

99 67.7 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): VN057777.D (-1735) (-)

Ion 98.90 (98.60 to 99.60): VN057777.D (-1735) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057777.D

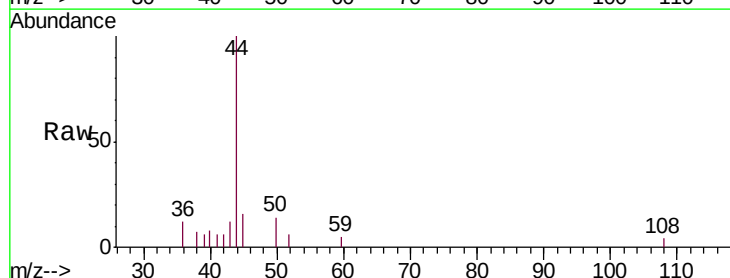
Acq: 8 Sep 2019 1:01

Tgt Ion: 50 Resp: 637

Ion Ratio Lower Upper

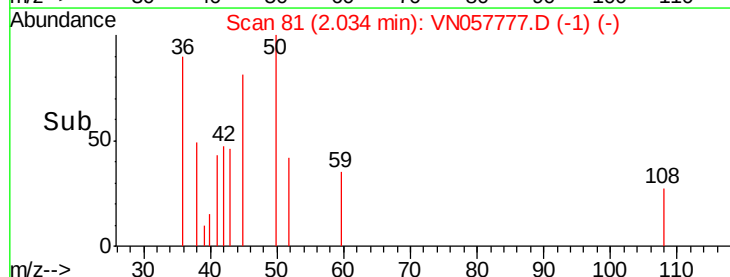
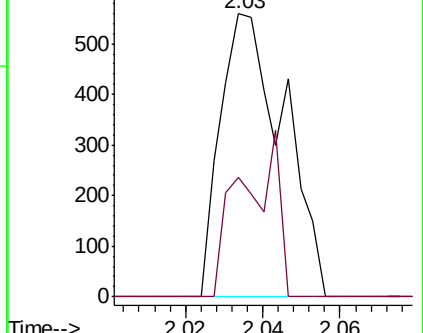
50 100

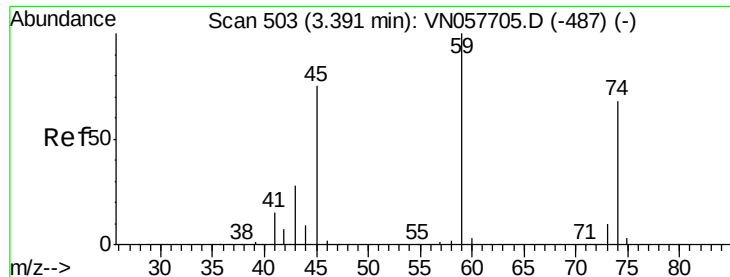
52 42.4 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN057777.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN057777.D (-1) (-)





#8

Diethyl Ether

Concen: 0.293 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampled :

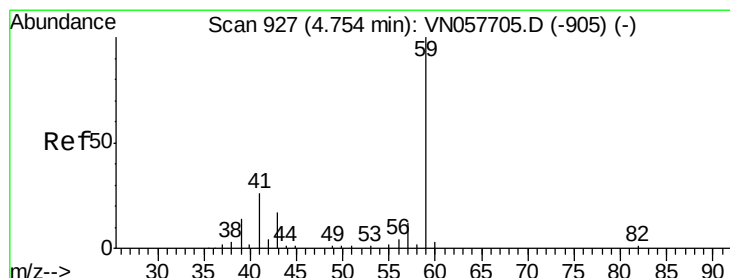
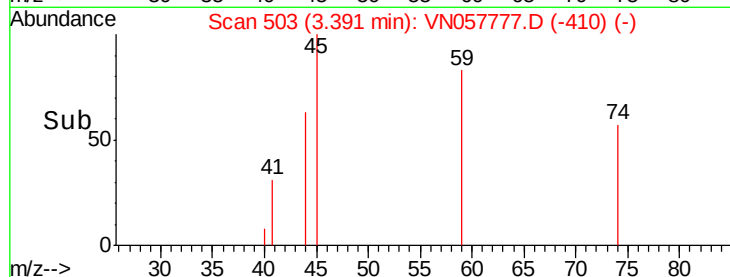
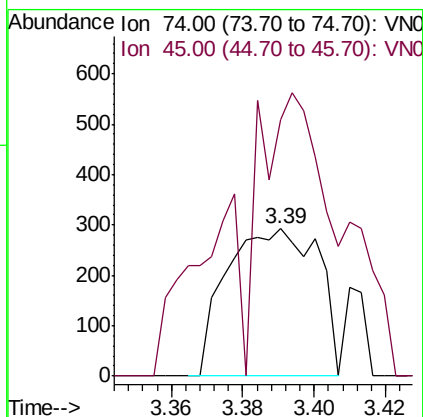
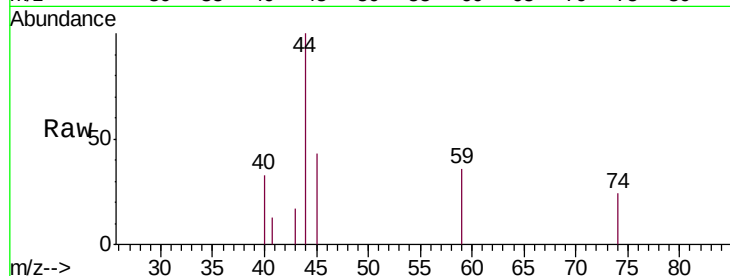
T12-E1-(2.7)

Tgt Ion: 74 Resp: 516

Ion Ratio Lower Upper

74 100

45 169.2 55.4 166.0#



#11

Tert butyl alcohol

Concen: 0.259 ug/l

RT: 4.76 min Scan# 930

Delta R.T. 0.01 min

Lab File: VN057777.D

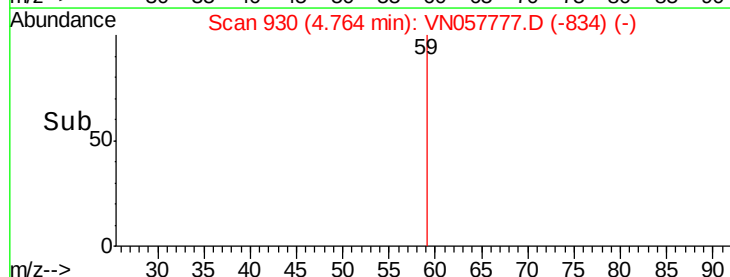
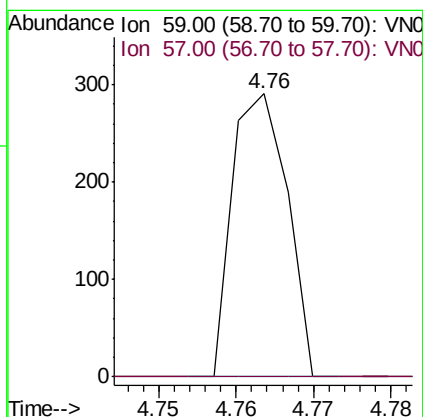
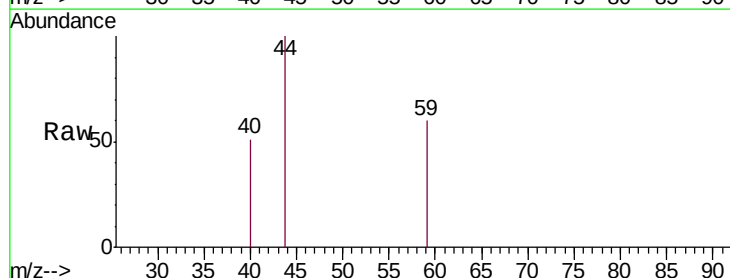
Acq: 8 Sep 2019 1:01

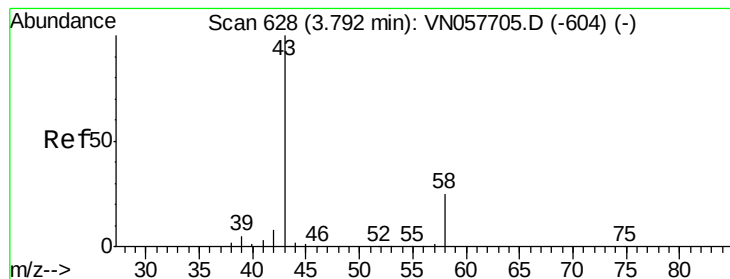
Tgt Ion: 59 Resp: 143

Ion Ratio Lower Upper

59 100

57 0.0 8.9 13.3#





#16

Acetone

Concen: 7.417 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampleId :

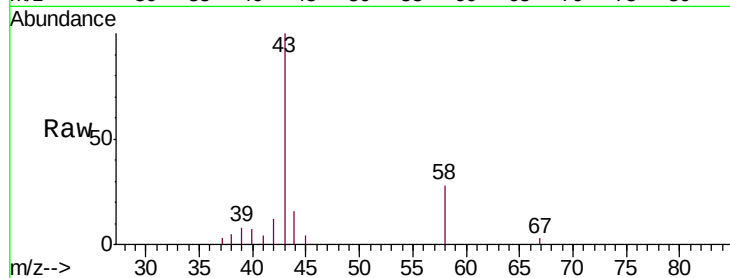
T12-E1-(2.7)

Tgt Ion: 43 Resp: 11088

Ion Ratio Lower Upper

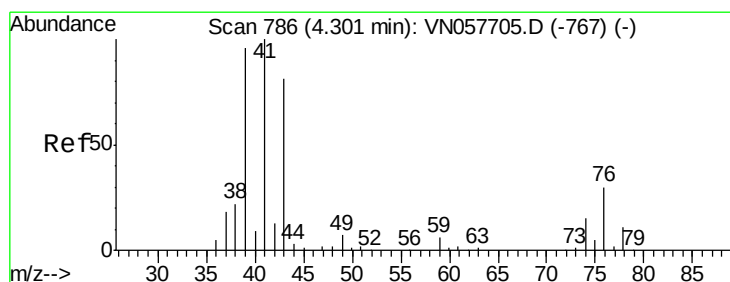
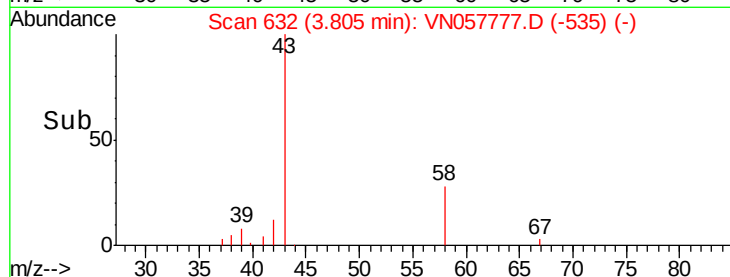
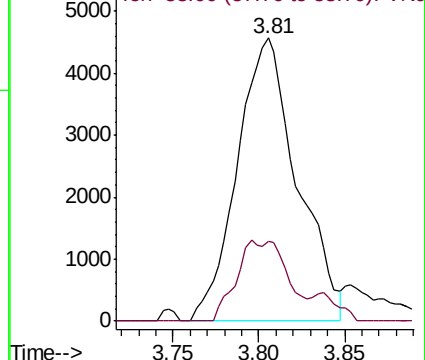
43 100

58 28.1 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN057777.D (-632) (-)

Ion 58.00 (57.70 to 58.70): VN057777.D (-632) (-)



#18

Methyl Acetate

Concen: 0.809 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.02 min

Lab File: VN057777.D

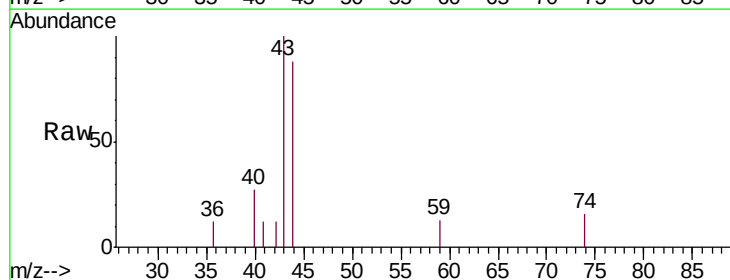
Acq: 8 Sep 2019 1:01

Tgt Ion: 43 Resp: 3287

Ion Ratio Lower Upper

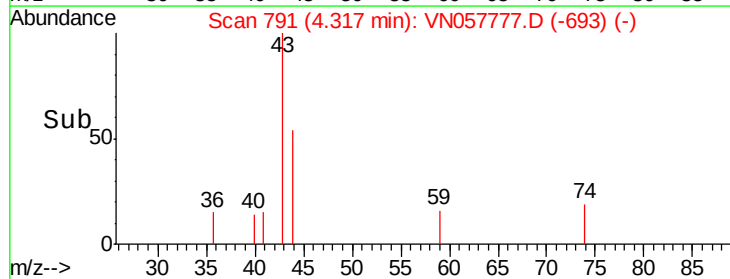
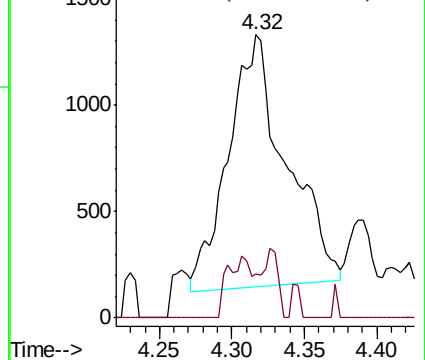
43 100

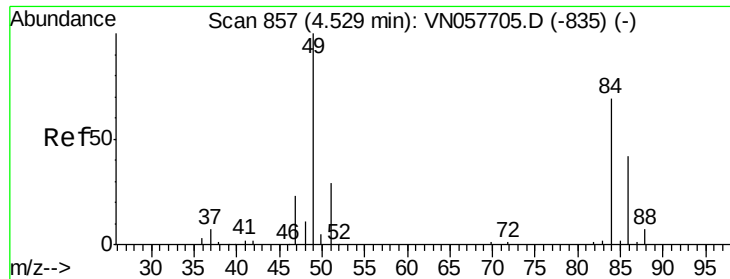
74 6.2 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057777.D (-693) (-)

Ion 74.00 (73.70 to 74.70): VN057777.D (-693) (-)

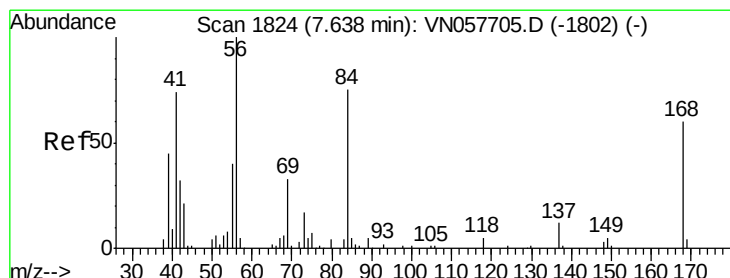
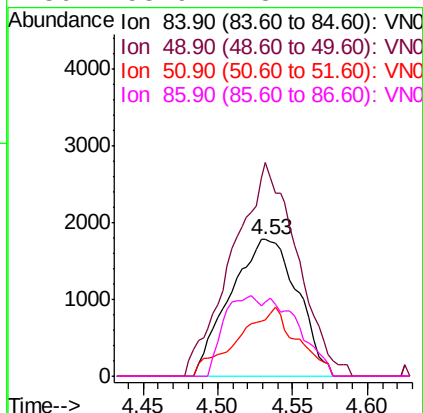
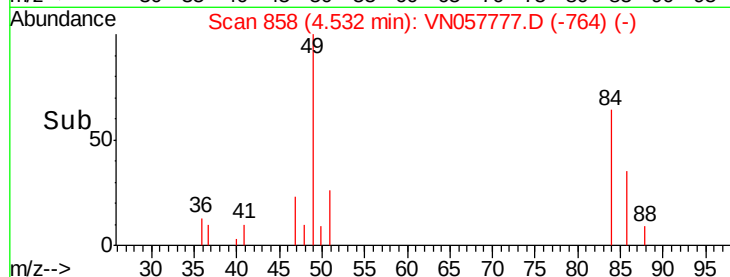
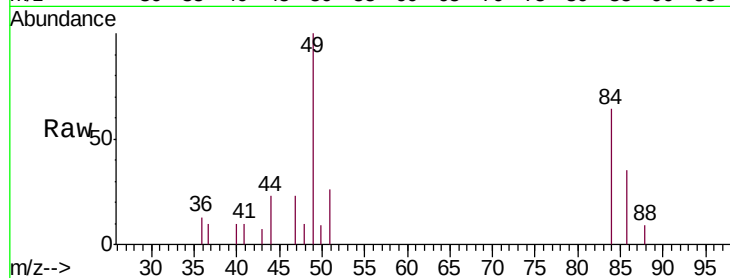




#20
Methylene Chloride
Concen: 1.735 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

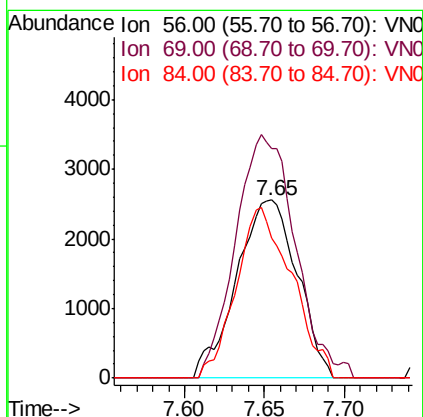
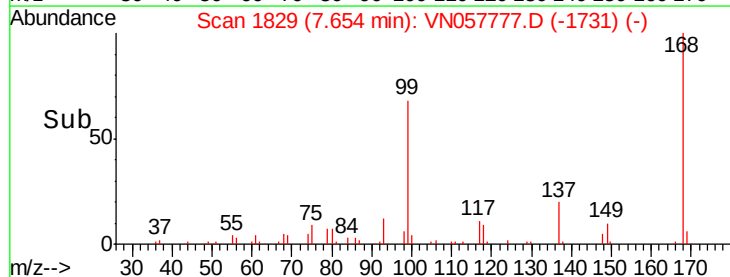
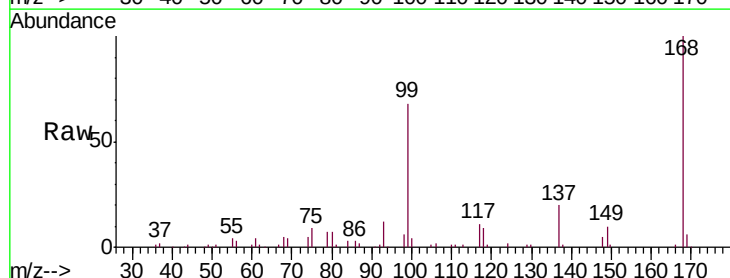
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MSVOA_N
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T12-E1-(2.7)

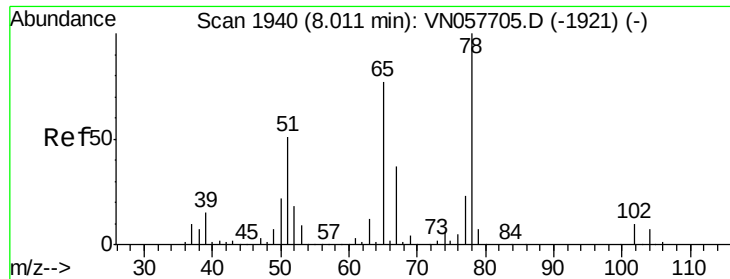
Tgt Ion:	84	Resp:	5608
Ion	Ratio	Lower	Upper
84	100		
49	147.6	115.0	172.6
51	41.2	33.8	50.8
86	53.9	48.2	72.2



#31
Cyclohexane
Concen: 1.221 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

Tgt Ion:	56	Resp:	6660
Ion	Ratio	Lower	Upper
56	100		
69	128.8	26.2	39.2#
84	78.9	59.8	89.8

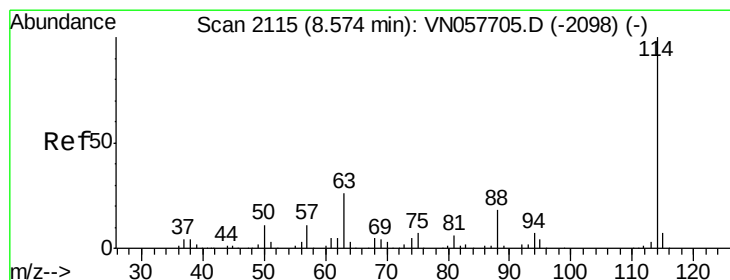
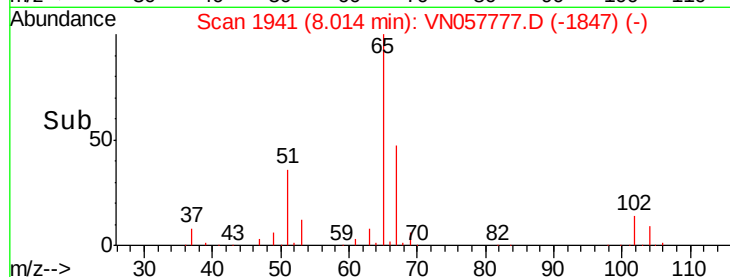
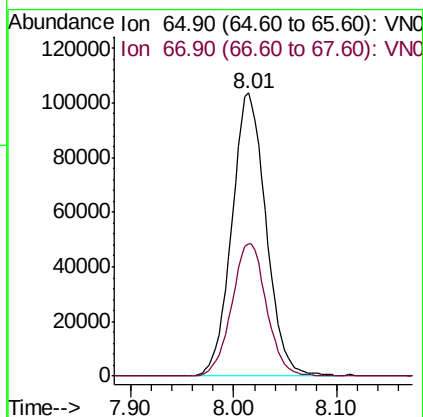
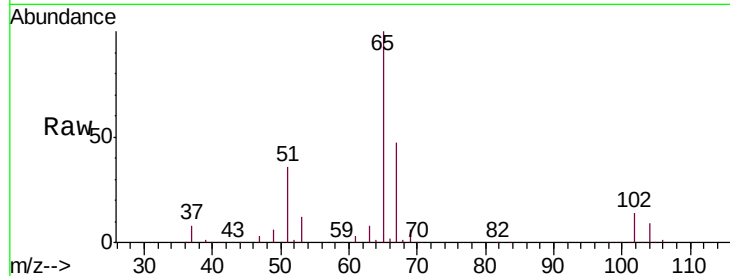




#33
 1,2-Dichloroethane-d4
 Concen: 49.302 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

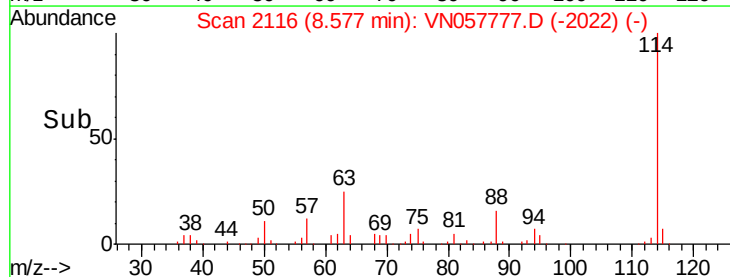
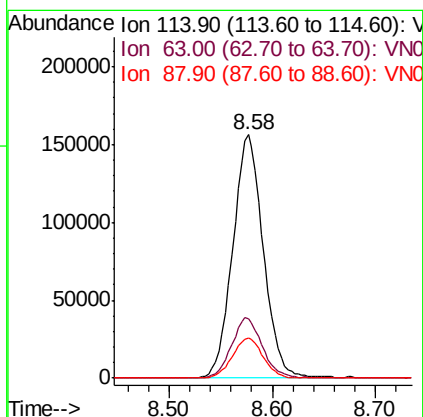
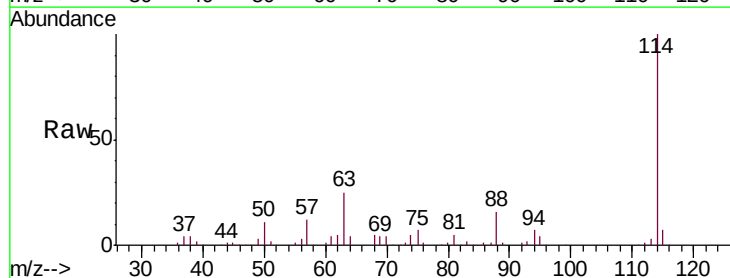
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(2.7)

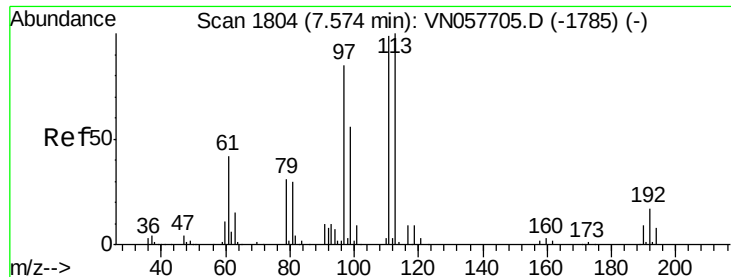
Tgt Ion: 65 Resp: 239500
 Ion Ratio Lower Upper
 65 100
 67 47.5 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

Tgt Ion: 114 Resp: 322029
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 52.4
 88 16.5 0.0 35.4

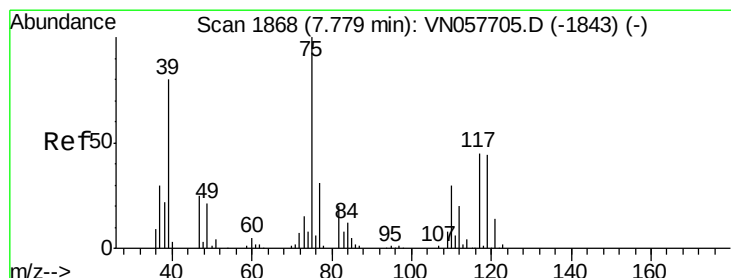
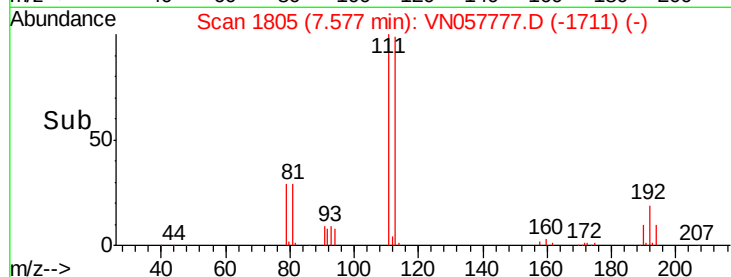
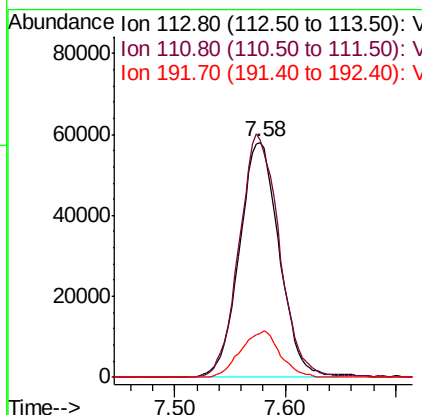
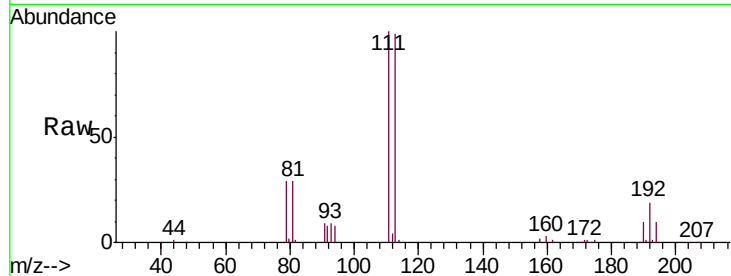




#35
 Dibromofluoromethane
 Concen: 49.693 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

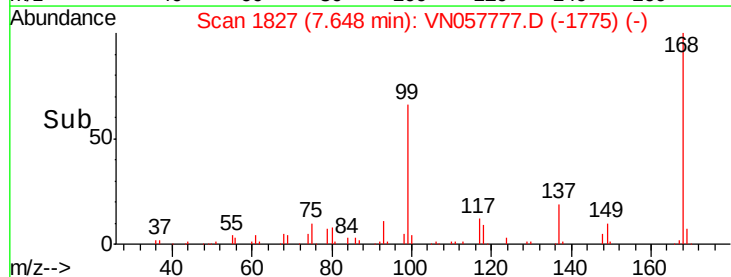
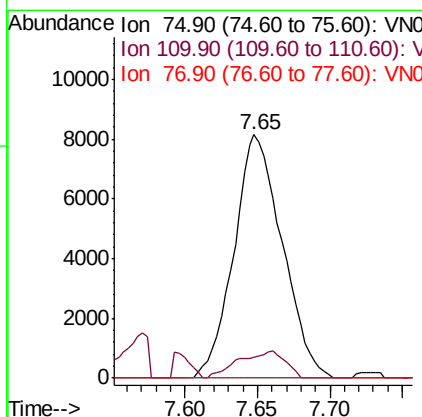
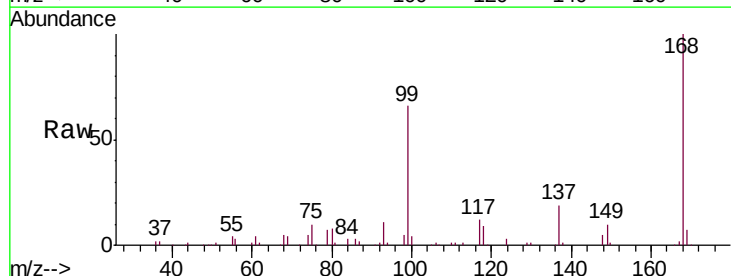
Instrument :
 MSVOA_N
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 T12-E1-(2.7)

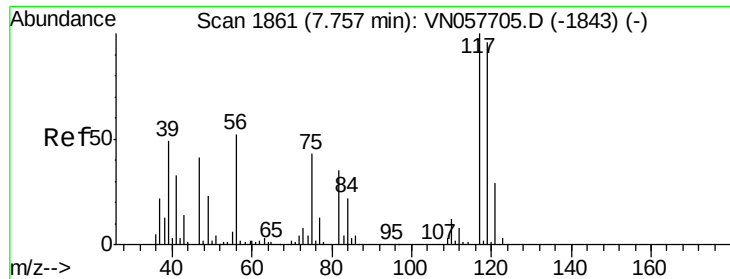
Tgt Ion: 113 Resp: 145758
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.7 124.1
 192 19.5 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 4.392 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

Tgt Ion: 75 Resp: 18815
 Ion Ratio Lower Upper
 75 100
 110 10.8 15.0 45.0#
 77 0.0 24.6 37.0#

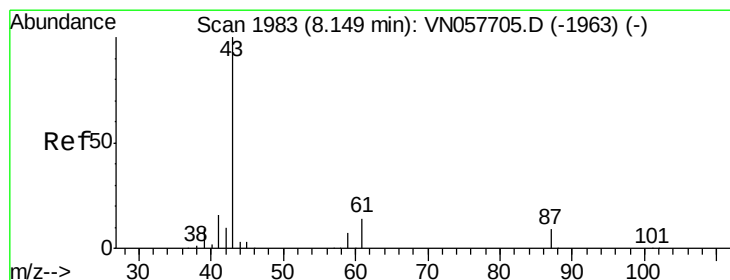
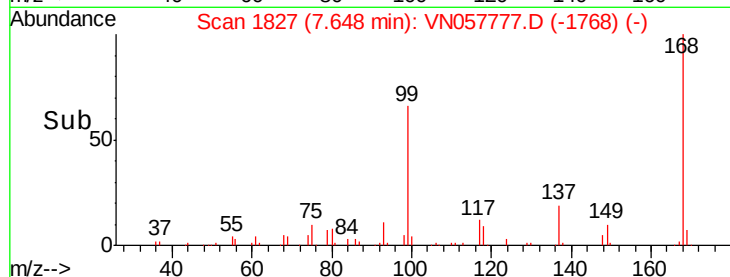
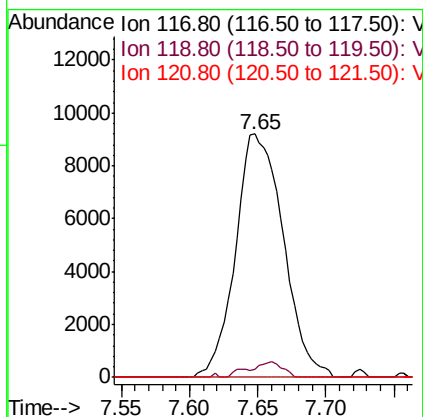
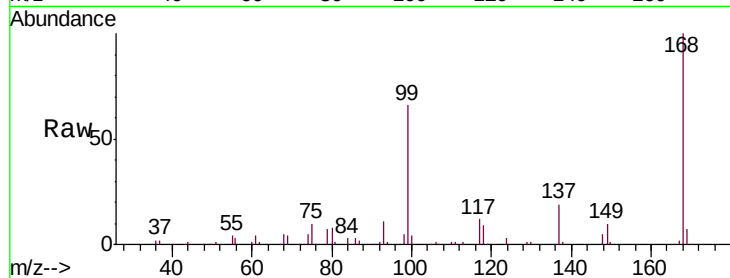




#38
Carbon Tetrachloride
Concen: 5.457 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

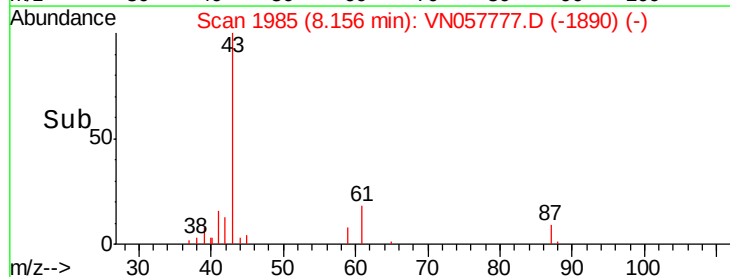
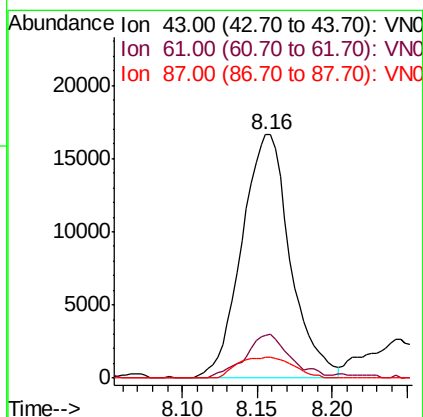
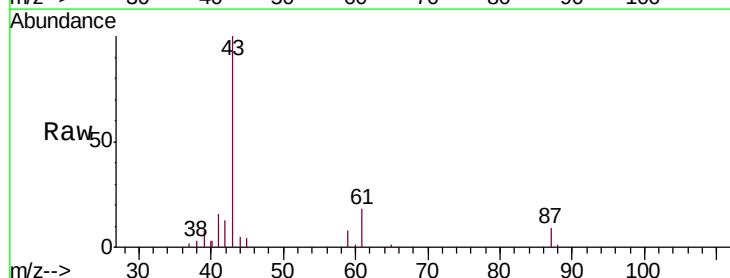
Instrument :
MSVOA_N
ClientSampled :
T12-E1-(2.7)

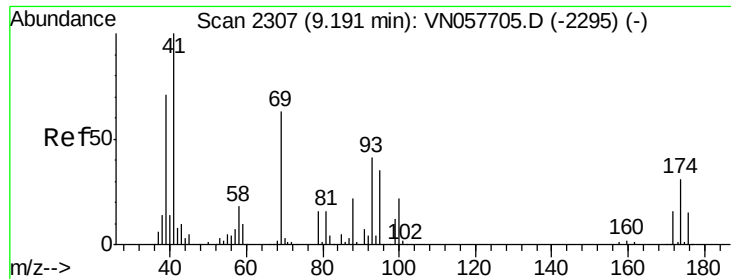
Tgt Ion:117 Resp: 22386
Ion Ratio Lower Upper
117 100
119 3.5 76.1 114.1#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 4.599 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.01 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

Tgt Ion: 43 Resp: 37548
Ion Ratio Lower Upper
43 100
61 16.5 12.8 19.2
87 9.8 7.8 11.8

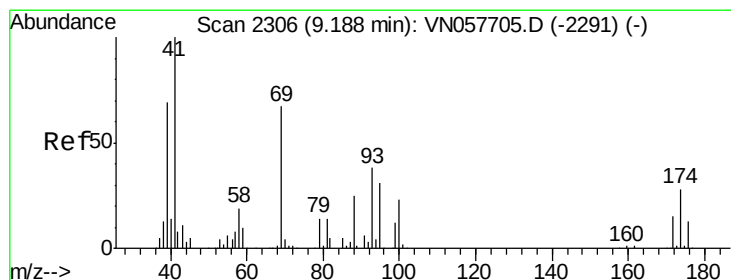
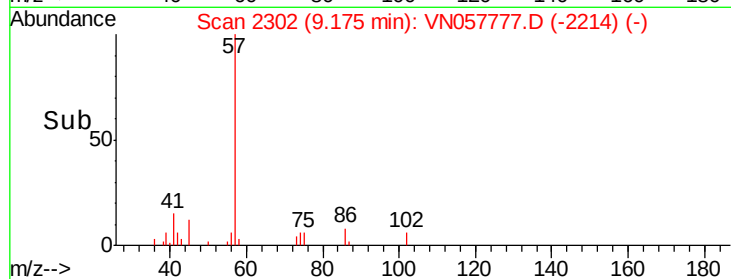
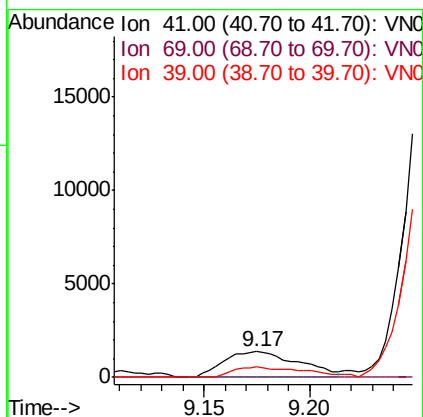
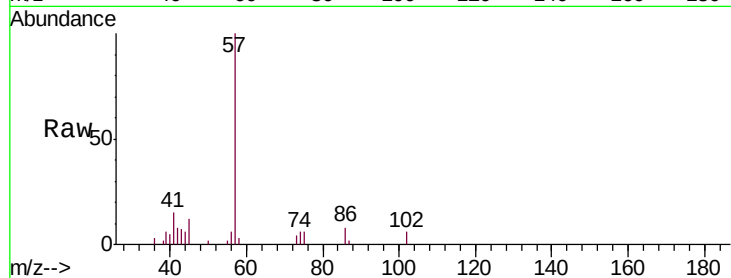




#48
Methyl methacrylate
Concen: 0.818 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

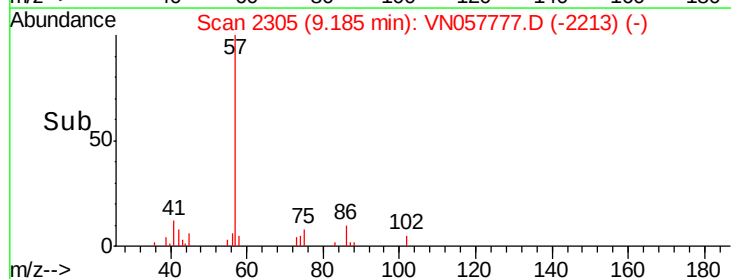
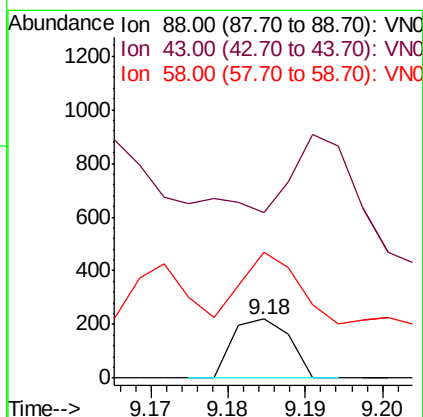
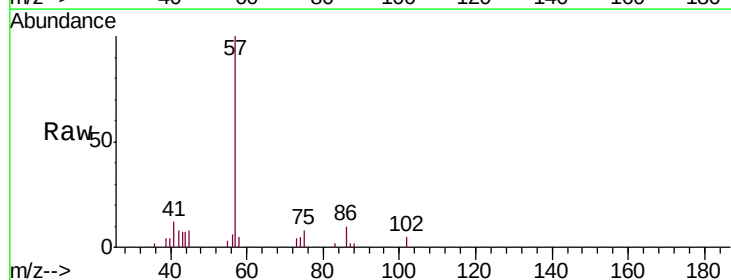
Instrument :
MSVOA_N
ClientSampled :
T12-E1-(2.7)

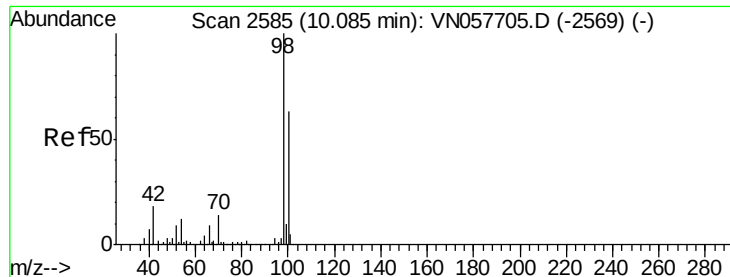
Tgt Ion: 41 Resp: 3434
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 39.3 57.3 85.9#



#49
1,4-Dioxane
Concen: 2.313 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.00 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 0.0 35.4 53.2#
58 428.3 61.5 92.3#





#50

Toluene-d8

Concen: 50.011 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampled :

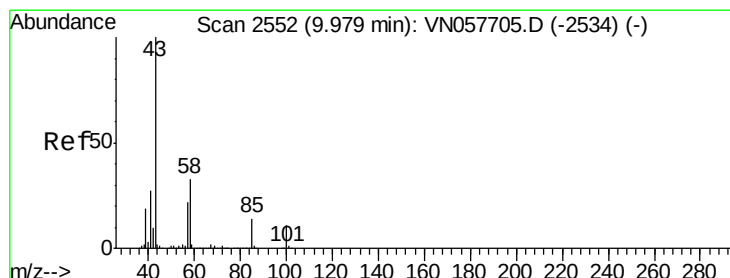
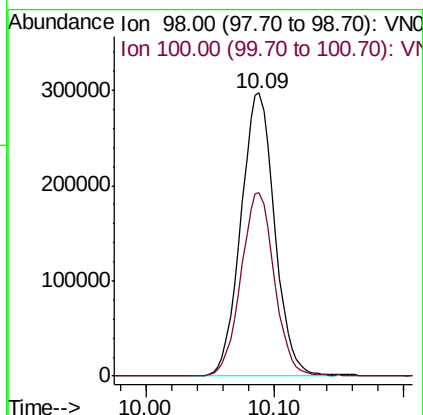
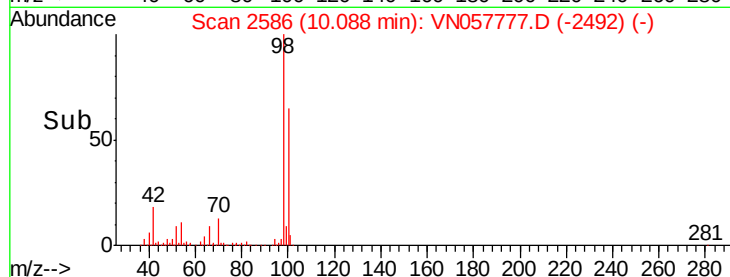
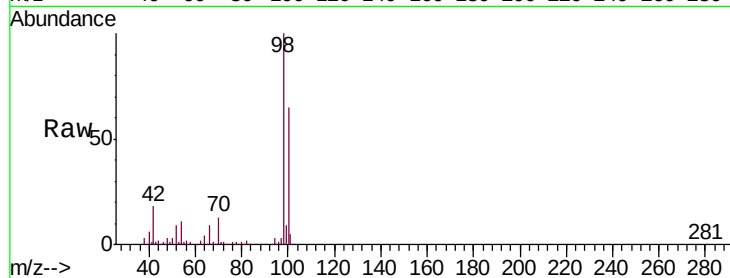
T12-E1-(2.7)

Tgt Ion: 98 Resp: 542648

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.735 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN057777.D

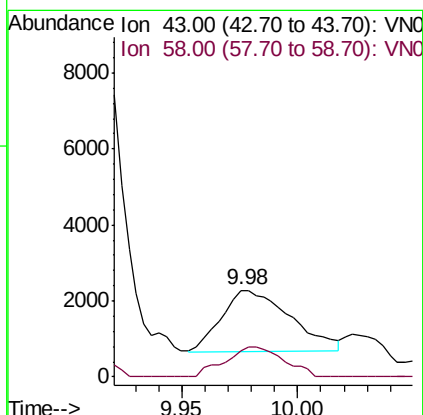
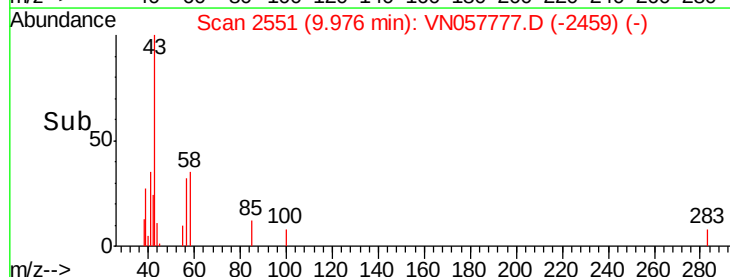
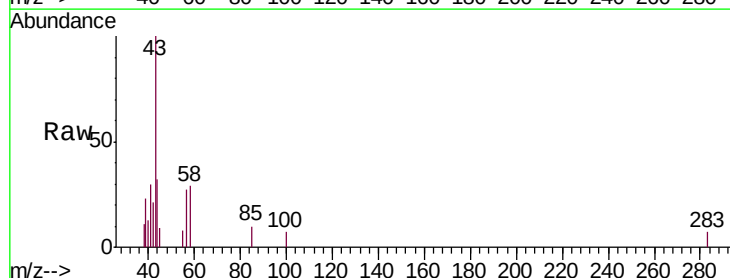
Acq: 8 Sep 2019 1:01

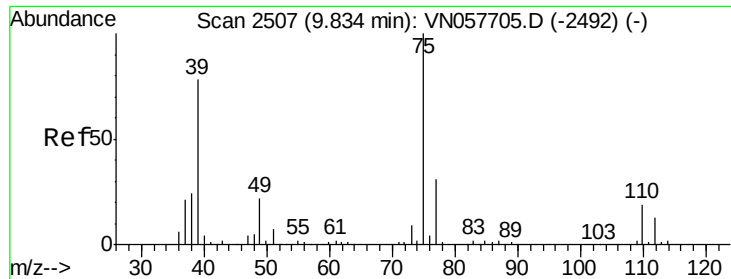
Tgt Ion: 43 Resp: 3331

Ion Ratio Lower Upper

43 100

58 41.4 25.8 38.8#

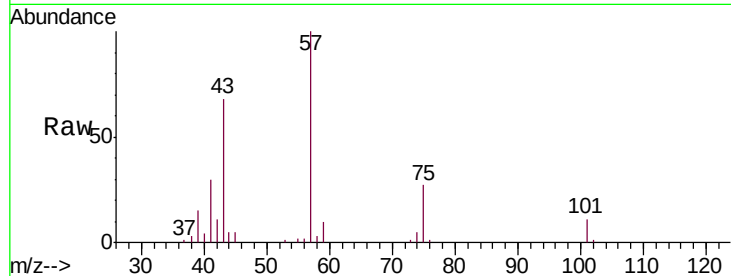




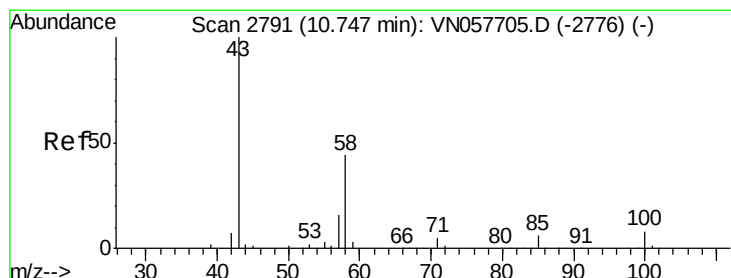
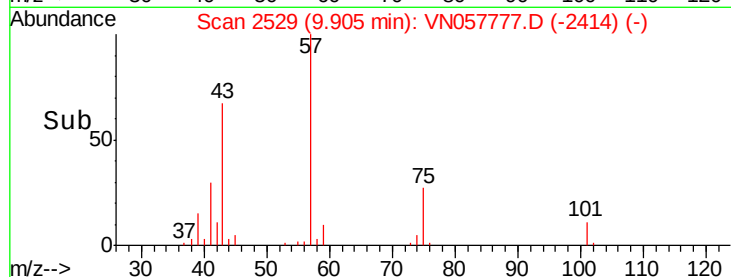
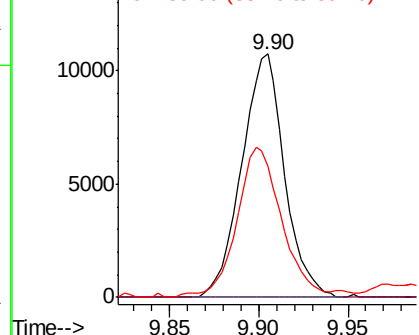
#54
 cis-1,3-Dichloropropene
 Concen: 3.570 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(2.7)

Tgt Ion: 75 Resp: 17880
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 52.1 62.4 93.6#

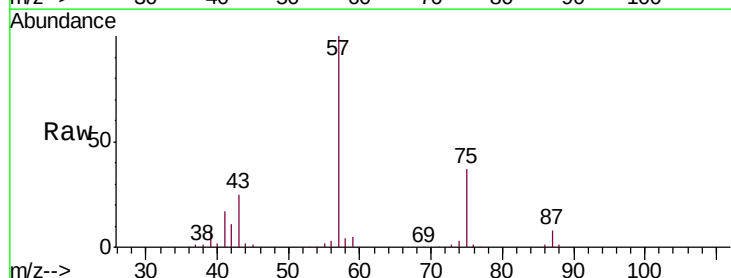


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0

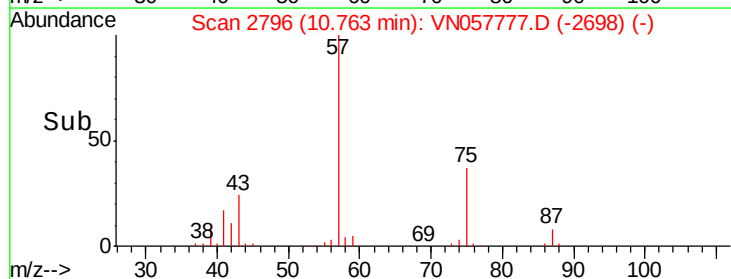
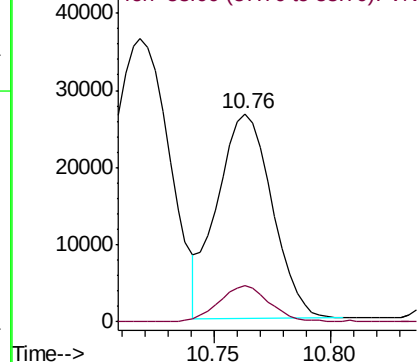


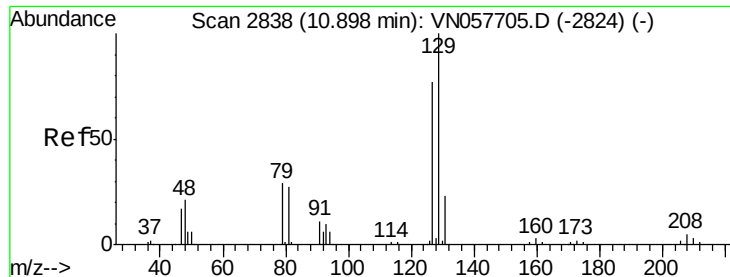
#59
 2-Hexanone
 Concen: 13.592 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.02 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

Tgt Ion: 43 Resp: 43454
 Ion Ratio Lower Upper
 43 100
 58 16.5 22.1 66.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 1.863 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampleId :

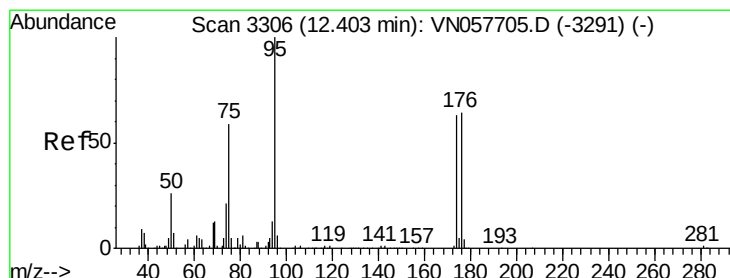
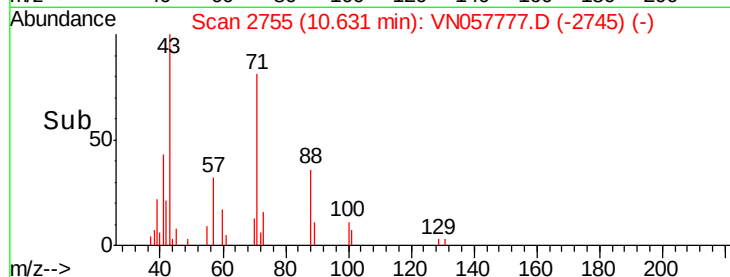
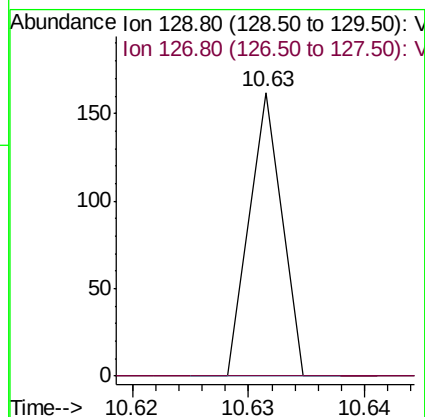
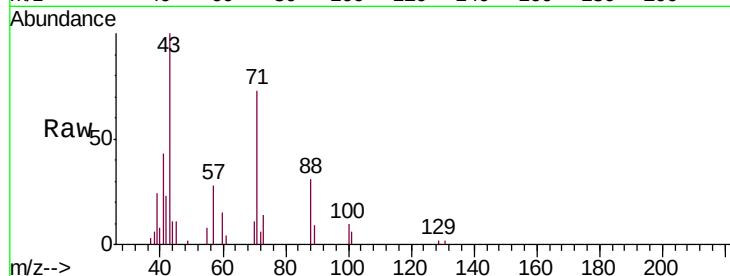
T12-E1-(2.7)

Tgt Ion:129 Resp: 31

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 44.396 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

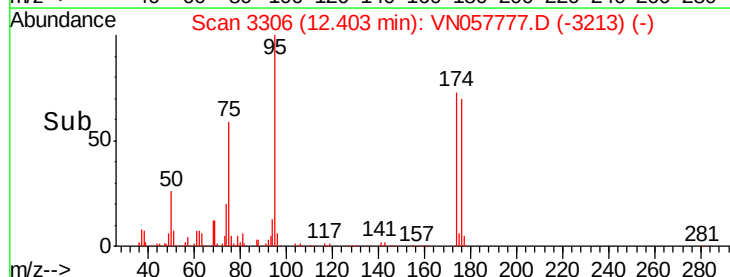
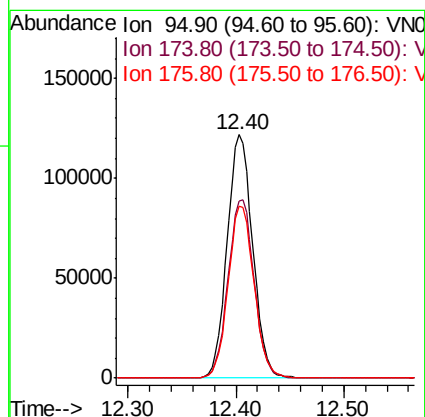
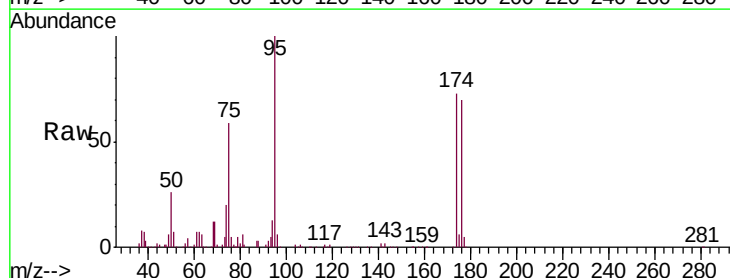
Tgt Ion: 95 Resp: 200085

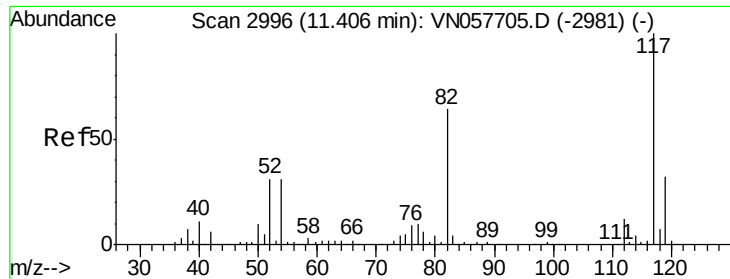
Ion Ratio Lower Upper

95 100

174 74.6 0.0 128.0

176 71.8 0.0 128.0

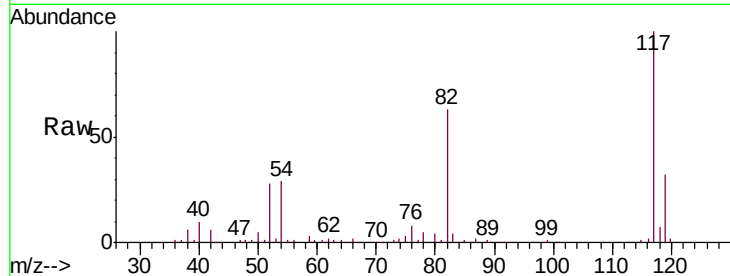




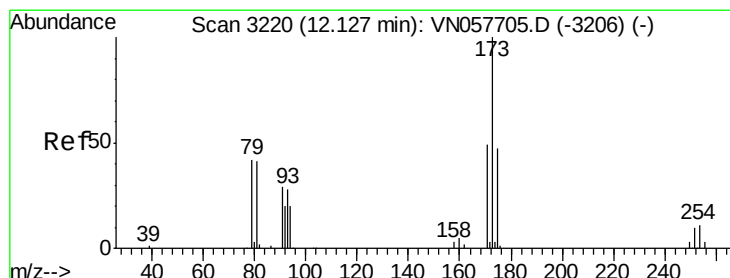
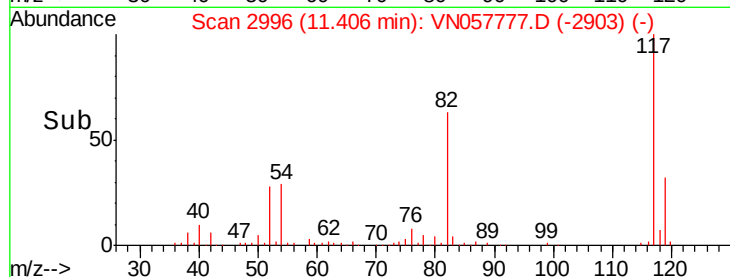
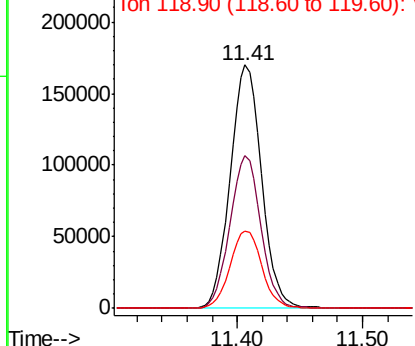
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

Instrument :
MSVOA_N
ClientSampled :
T12-E1-(2.7)

Tgt Ion:117 Resp: 295777
Ion Ratio Lower Upper
117 100
82 62.6 51.4 77.0
119 31.9 25.4 38.2

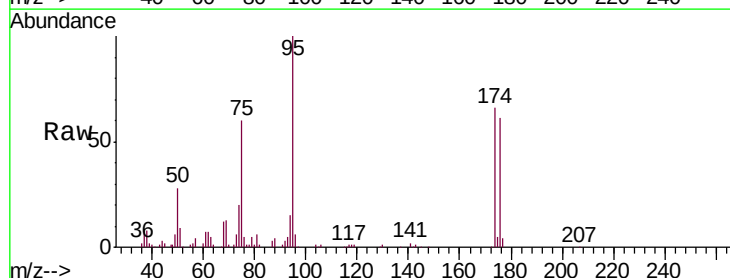


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

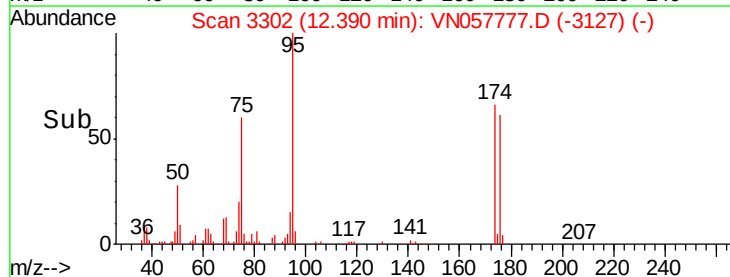
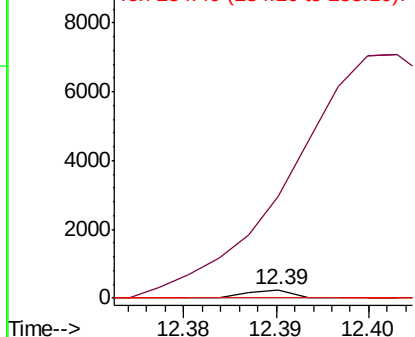


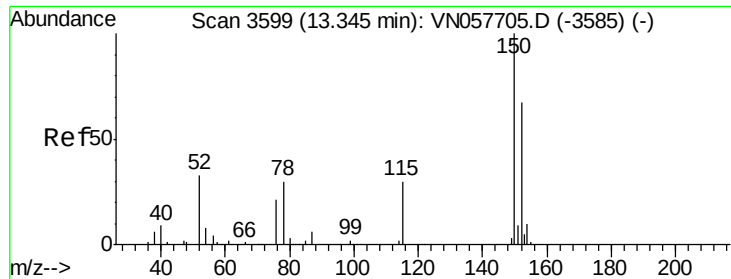
#71
Bromoform
Concen: 3.277 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN057777.D
Acq: 8 Sep 2019 1:01

Tgt Ion:173 Resp: 76
Ion Ratio Lower Upper
173 100
175 12386.8 24.6 73.8#
254 0.0 0.0 0.0



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampleId :

T12-E1-(2.7)

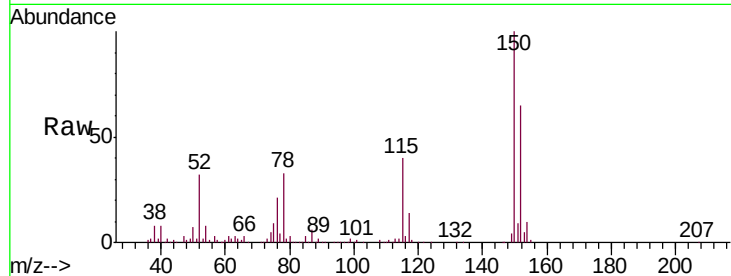
Tgt Ion:152 Resp: 153858

Ion Ratio Lower Upper

152 100

115 62.1 33.8 101.3

150 154.7 0.0 345.4

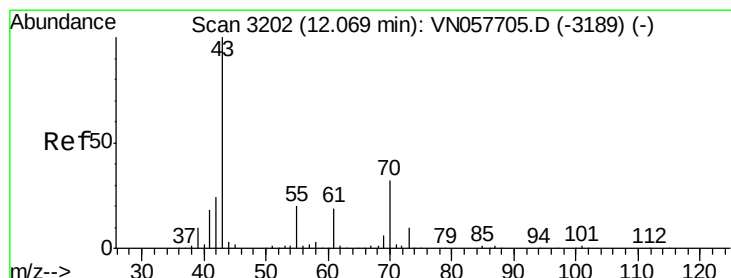
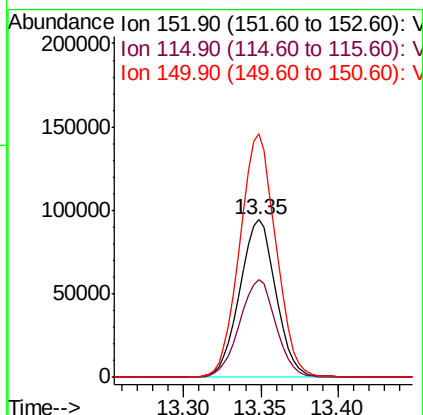
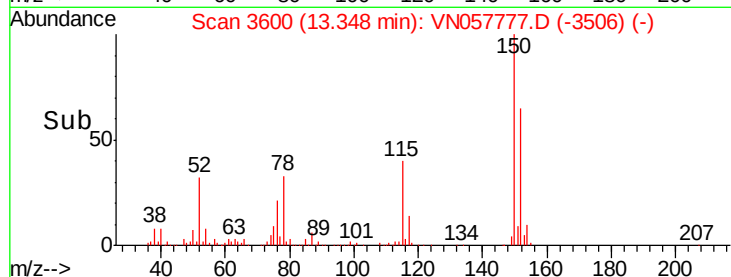


Abundance

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-amyl acetate

Concen: 0.253 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Tgt Ion: 43 Resp: 1717

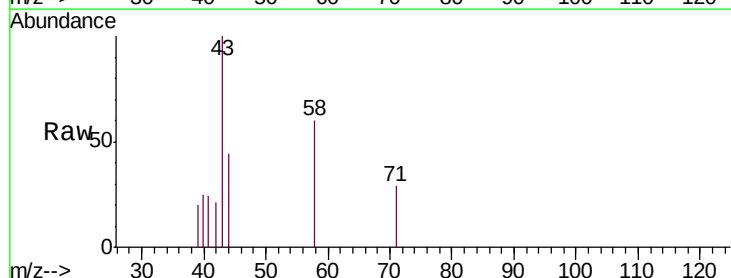
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 0.0 16.3 24.5#

61 0.0 15.0 22.4#



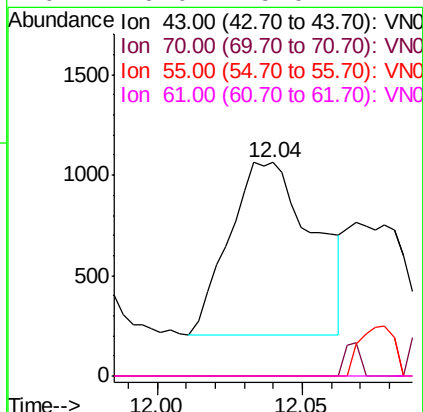
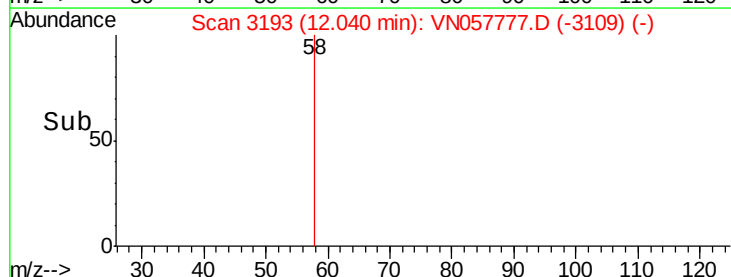
Abundance

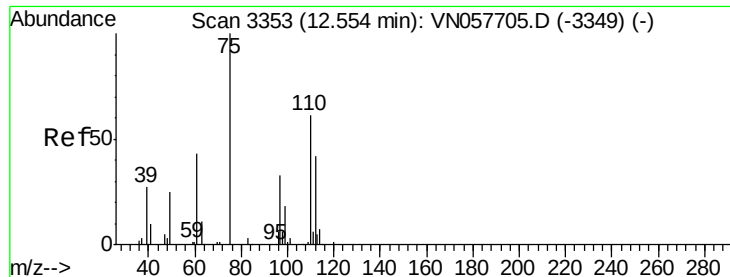
Ion 43.00 (42.70 to 43.70): VNO

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: 33.606 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampleId :

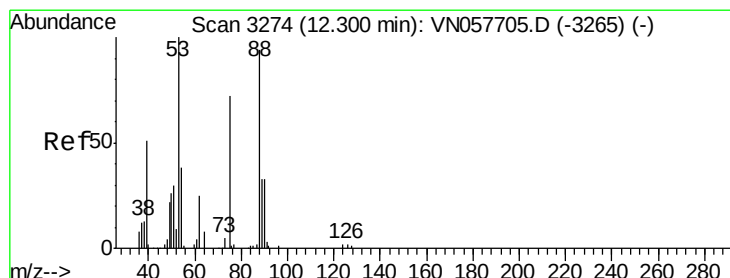
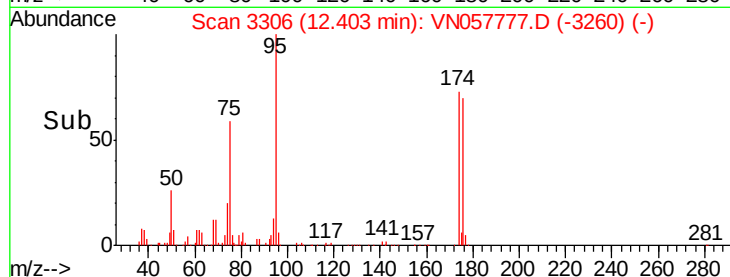
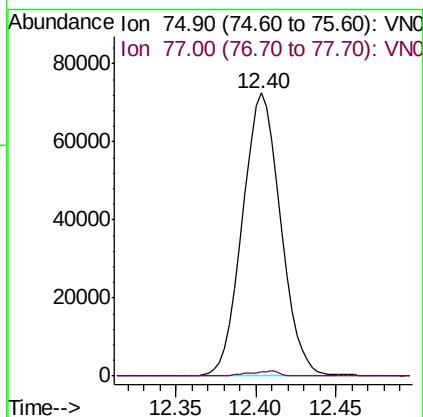
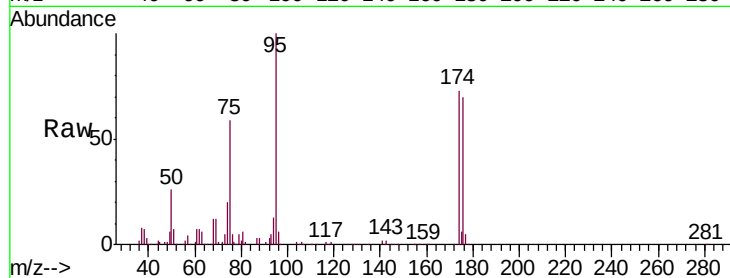
T12-E1-(2.7)

Tgt Ion: 75 Resp: 118736

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 104.516 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

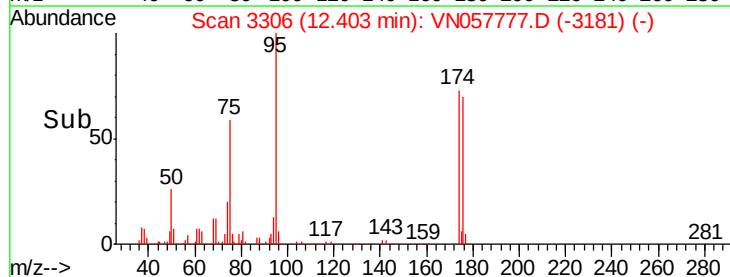
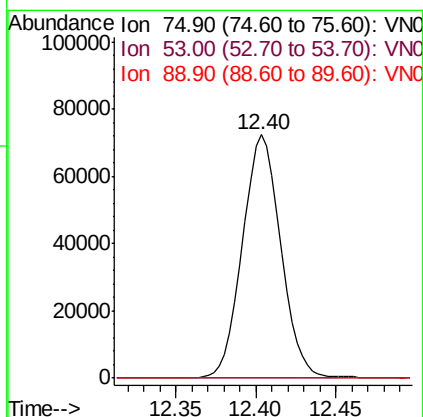
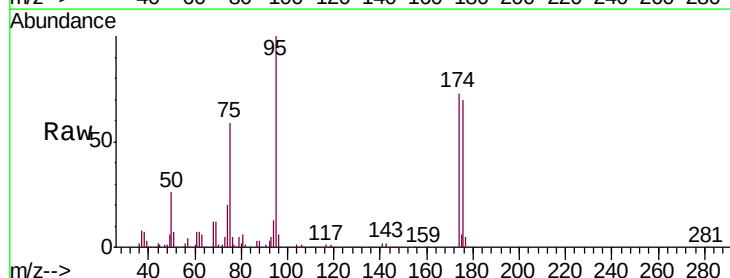
Tgt Ion: 75 Resp: 118736

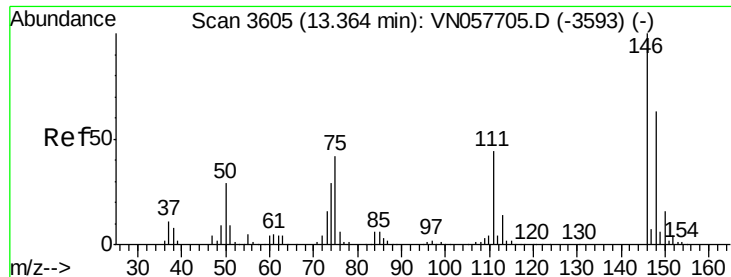
Ion Ratio Lower Upper

75 100

53 0.0 107.0 160.6#

89 0.0 36.5 54.7#





#88

1,4-Dichlorobenzene

Concen: 0.231 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

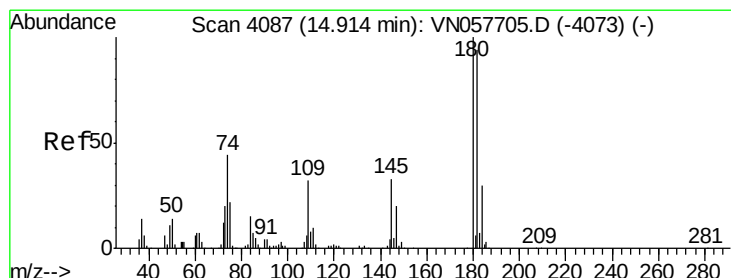
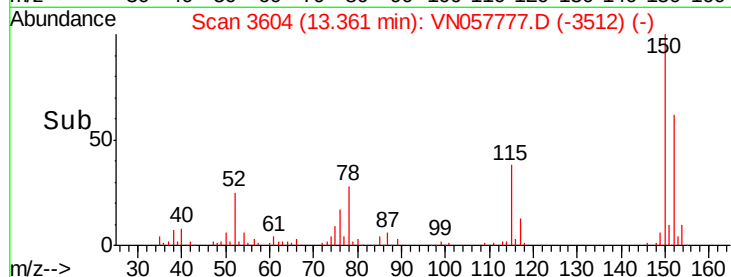
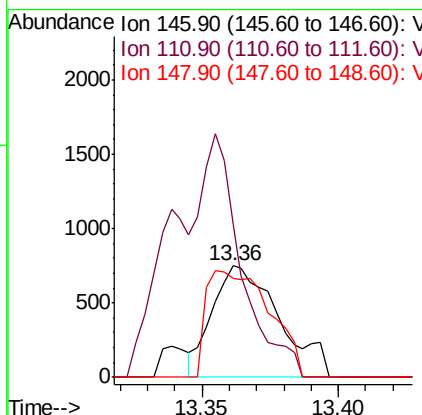
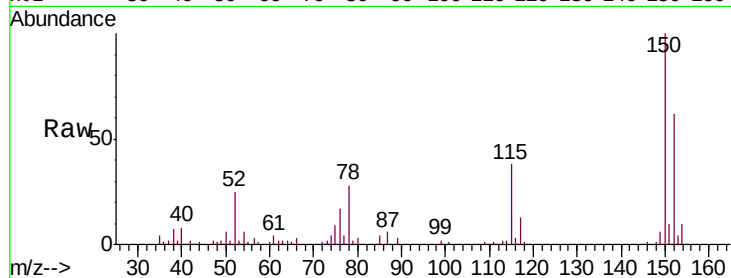
Instrument :

MSVOA_N

ClientSampled :

T12-E1-(2.7)

Tgt Ion:	146	Resp:	1276
Ion	Ratio	Lower	Upper
146	100		
111	135.9	22.3	66.9#
148	90.6	31.9	95.7



#93

1,2,4-Trichlorobenzene

Concen: 0.608 ug/l

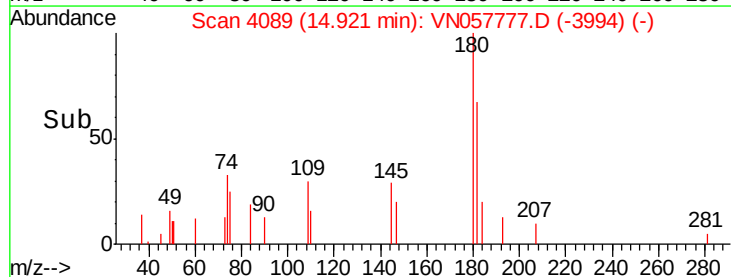
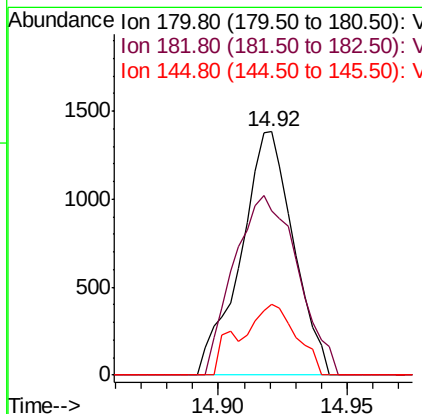
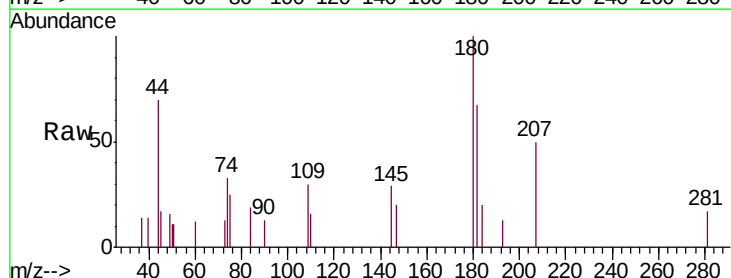
RT: 14.92 min Scan# 4089

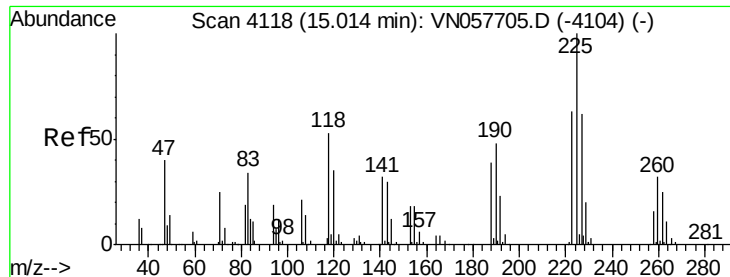
Delta R.T. 0.01 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Tgt Ion:	180	Resp:	1978
Ion	Ratio	Lower	Upper
180	100		
182	89.4	47.6	142.9
145	24.5	16.6	49.7





#94

Hexachlorobutadiene

Concen: 0.281 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

Instrument :

MSVOA_N

ClientSampled :

T12-E1-(2.7)

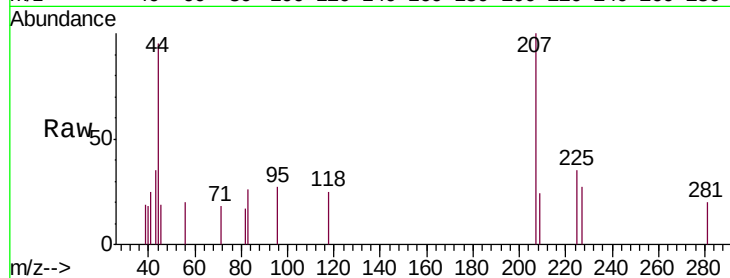
Tgt Ion:225 Resp: 445

Ion Ratio Lower Upper

225 100

223 15.3 31.6 95.0#

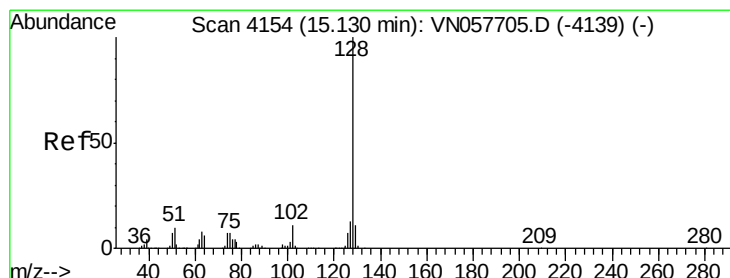
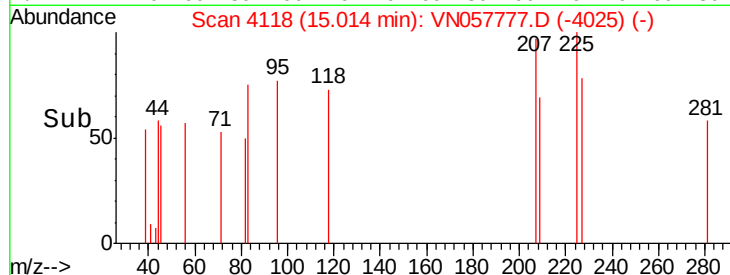
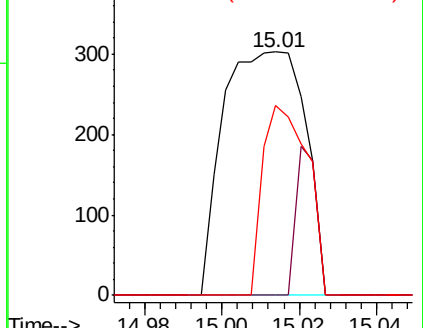
227 43.4 31.7 95.1



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.842 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057777.D

Acq: 8 Sep 2019 1:01

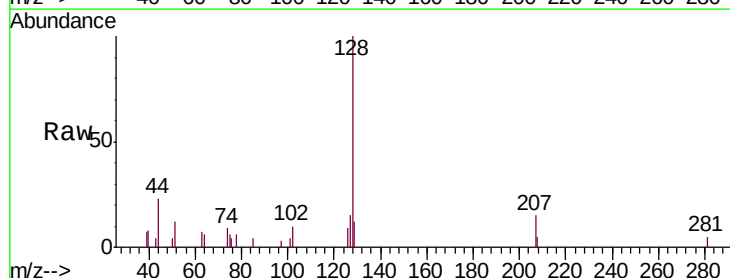
Tgt Ion:128 Resp: 7951

Ion Ratio Lower Upper

128 100

127 11.9 10.6 15.8

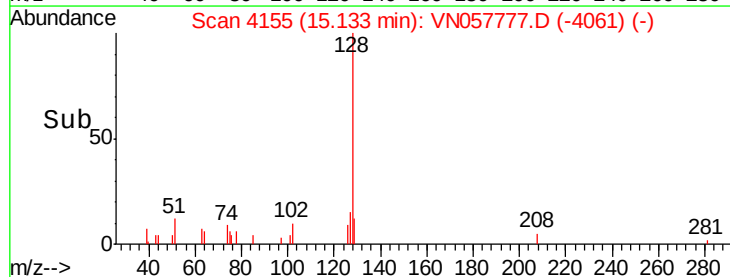
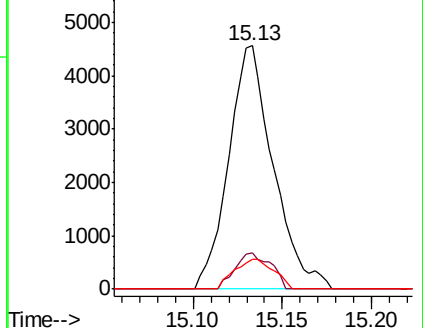
129 10.9 8.4 12.6

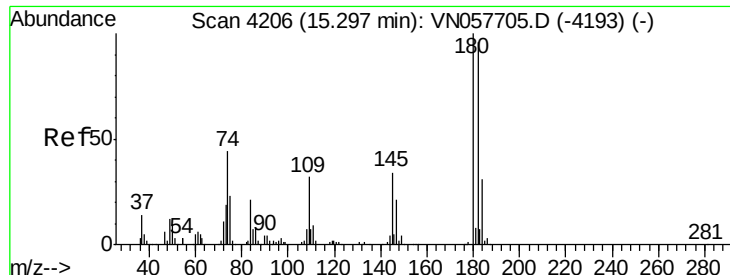


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.676 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057777.D
 Acq: 8 Sep 2019 1:01

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-E1-(2.7)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	121.1	47.0	141.2
145	45.4	17.5	52.6

