

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054837.D
 Acq On : 31 Mar 2019 7:30
 Operator : JC/SP
 Sample : K2164-07DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 01:42:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	529651	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	843796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	711731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249786	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	346423	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
35) Dibromofluoromethane	7.59	113	273235	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	10.09	98	1020974	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
62) 4-Bromofluorobenzene	12.40	95	307786	44.25	ug/l	0.00
Spiked Amount			Recovery	=	88.50%	

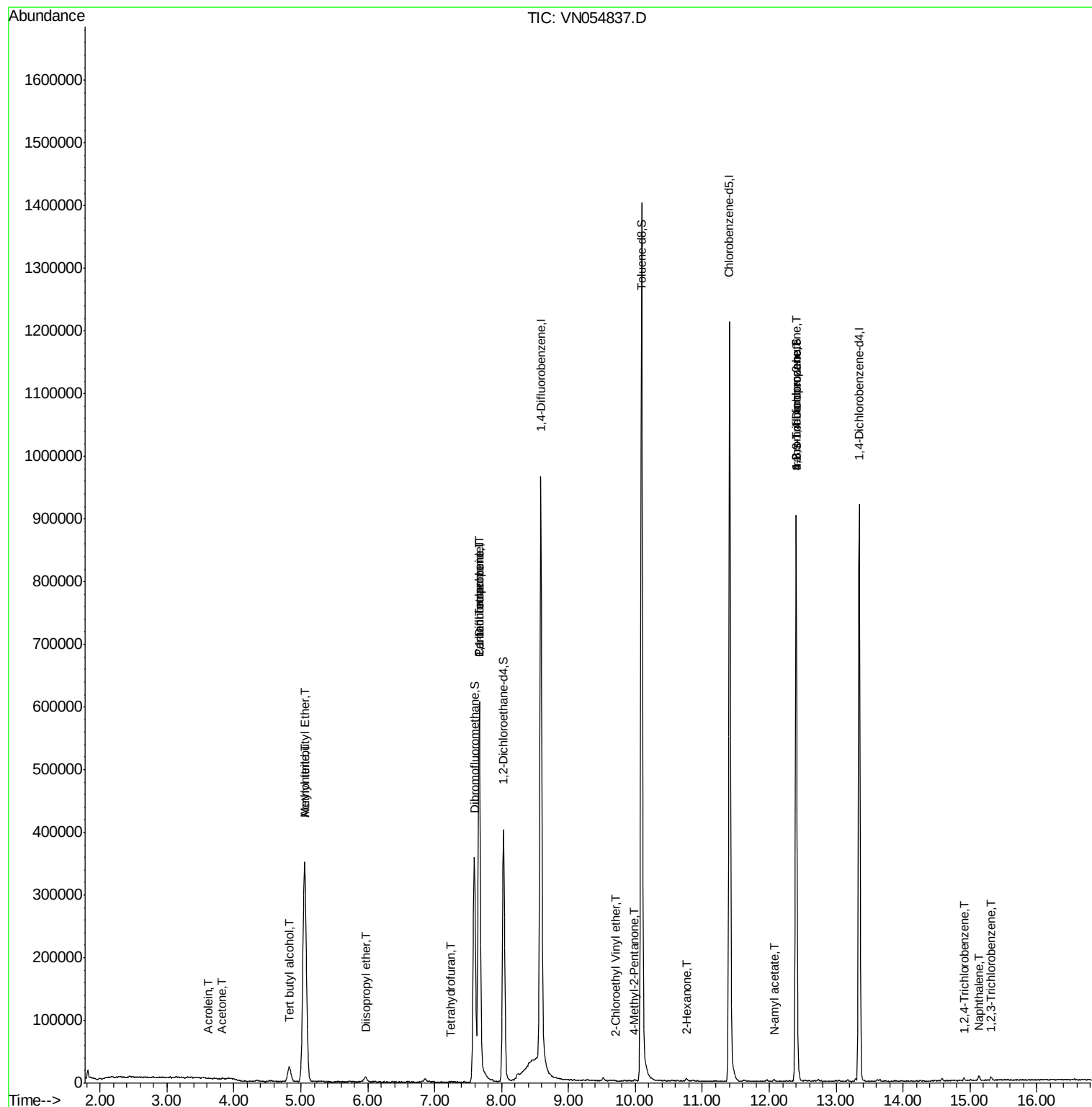
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	113	Below Cal		88
11) Tert butyl alcohol	4.83	59	38333	103.046	ug/l #	70
13) Acrolein	3.61	56	307	0.923	ug/l #	64
15) Acrylonitrile	5.05	53	7962	3.851	ug/l #	16
16) Acetone	3.82	43	550	0.323	ug/l #	26
18) Methyl Acetate	4.33	43	2925	Below Cal	#	78
19) Methyl tert-butyl Ether	5.06	73	565598	38.837	ug/l	94
22) Diisopropyl ether	5.97	45	12103	0.597	ug/l #	89
29) Tetrahydrofuran	7.24	42	595	0.340	ug/l #	30
31) Cyclohexane	7.66	56	11962	Below Cal	#	24
36) 1,1-Dichloropropene	7.66	75	41217	5.242	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50511	6.614	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1645	0.312	ug/l #	82
58) 2-Chloroethyl Vinyl ether	9.71	63	65	10.377	ug/l #	44
59) 2-Hexanone	10.76	43	3199	0.949	ug/l	76
74) N-amyl acetate	12.07	43	1660	0.261	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	184	Below Cal	#	65
76) 1,2,3-Trichloropropane	12.40	75	160968	37.095	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160968	144.290	ug/l #	11
83) tert-Butylbenzene	12.99	119	960	Below Cal		91
93) 1,2,4-Trichlorobenzene	14.91	180	1550	0.386	ug/l	99
94) Hexachlorobutadiene	15.01	225	336	Below Cal	#	77
95) Naphthalene	15.14	128	5604	0.622	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	1803	0.445	ug/l	92

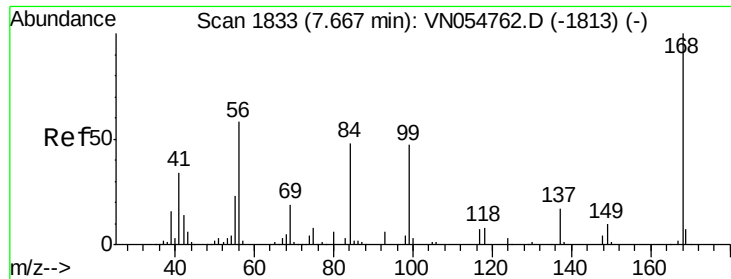
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :

MSVOA_N

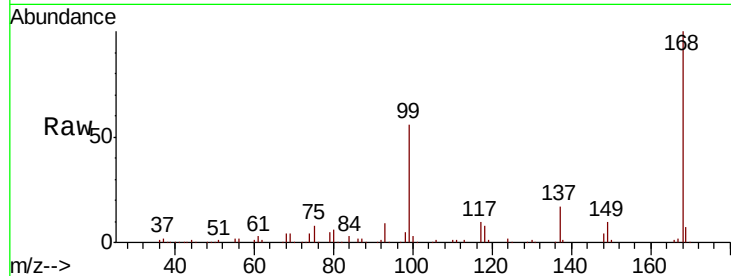
ClientSampled :

Tot Ion:168 Resp: 529651

Ion Ratio Lower Upper

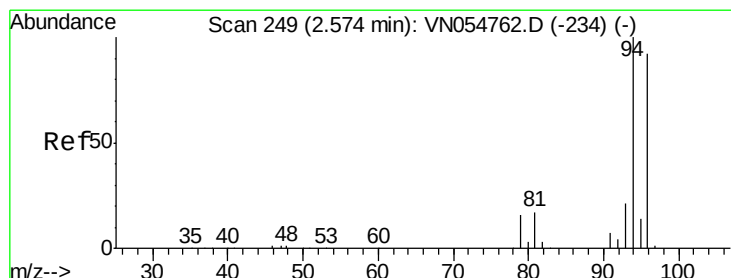
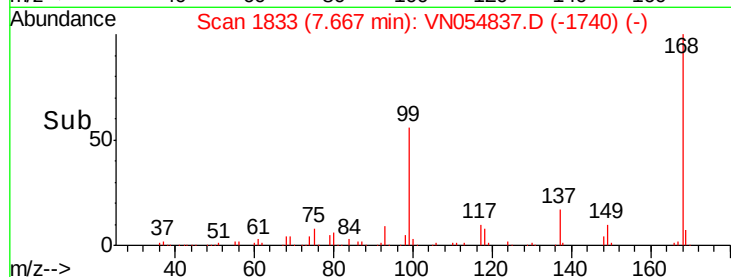
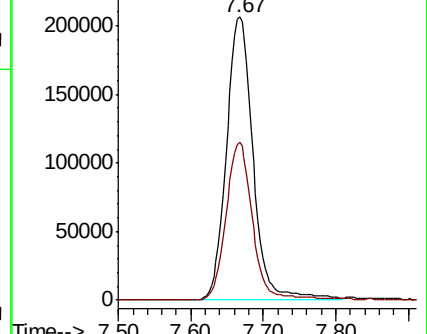
168 100

99 55.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN054837.D

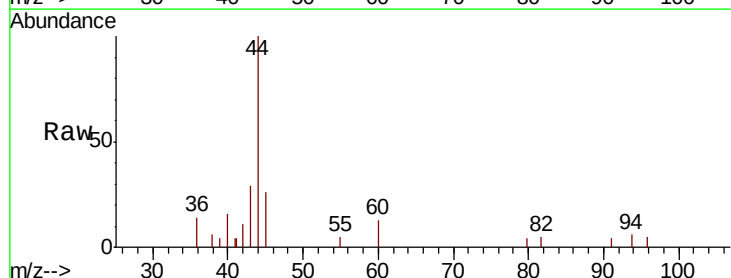
Acq: 31 Mar 2019 7:30

Tgt Ion: 94 Resp: 113

Ion Ratio Lower Upper

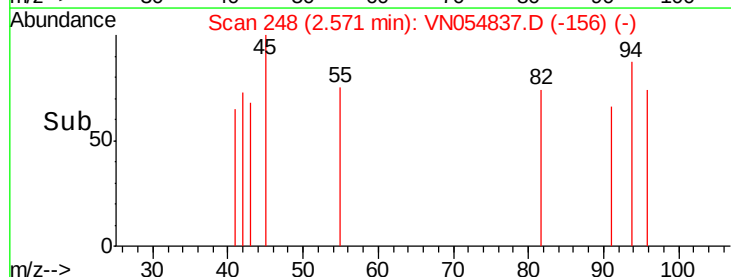
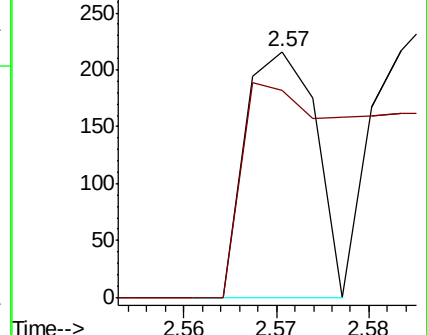
94 100

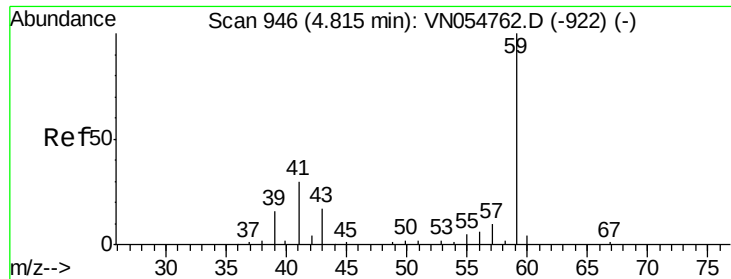
96 84.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

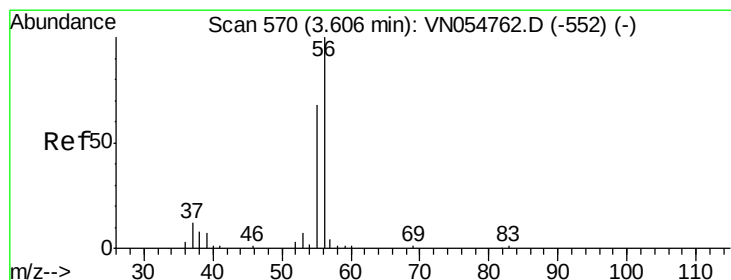
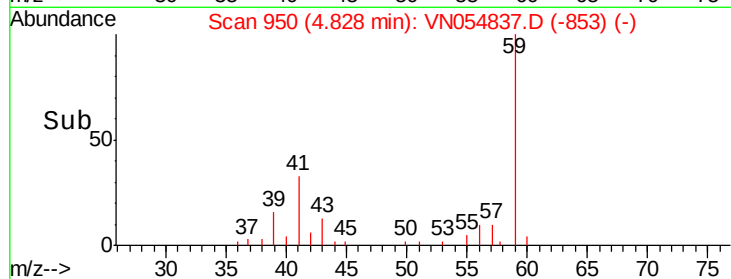
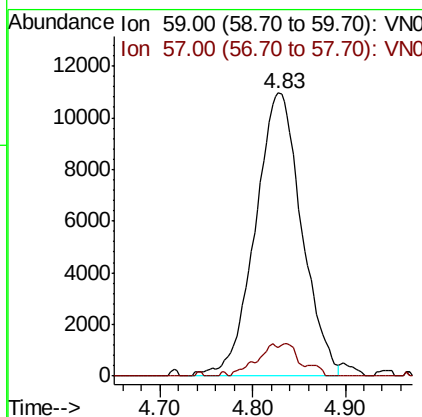
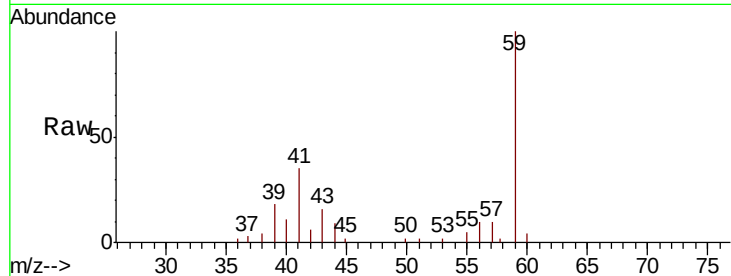




#11
Tert butyl alcohol
Concen: 103.046 ug/l
RT: 4.83 min Scan# 950
Delta R.T. 0.01 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

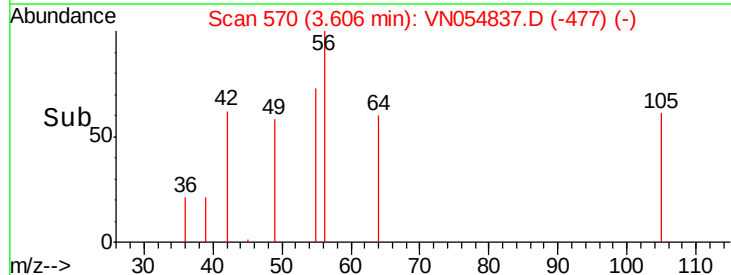
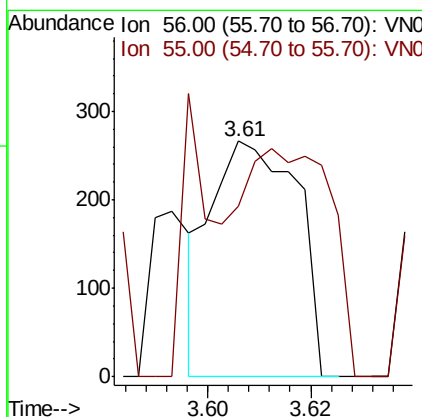
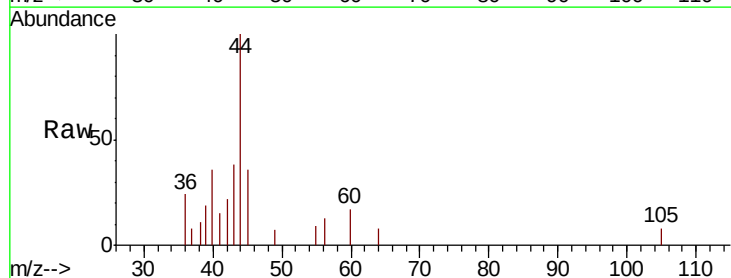
Instrument :
MSVOA_N
ClientSampled :

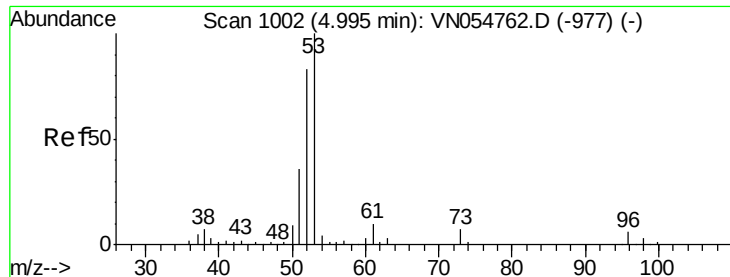
Tot Ion: 59 Resp: 38333
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#13
Acrolein
Concen: 0.923 ug/l
RT: 3.61 min Scan# 570
Delta R.T. -0.00 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

Tgt Ion: 56 Resp: 307
Ion Ratio Lower Upper
56 100
55 101.0 56.7 85.1#





#15

Acrylonitrile

Concen: 3.851 ug/l

RT: 5.05 min Scan# 1020

Delta R.T. 0.06 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :

MSVOA_N

ClientSampled :

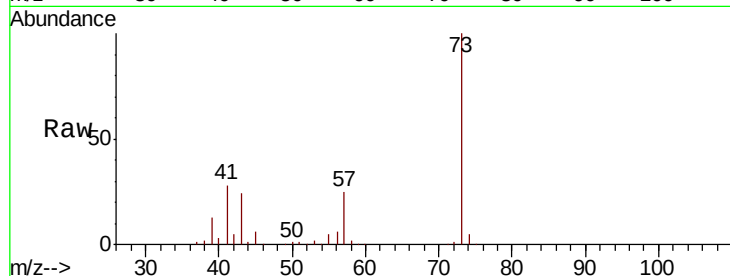
Tot Ion: 53 Resp: 7962

Ion Ratio Lower Upper

53 100

52 2.8 66.4 99.6#

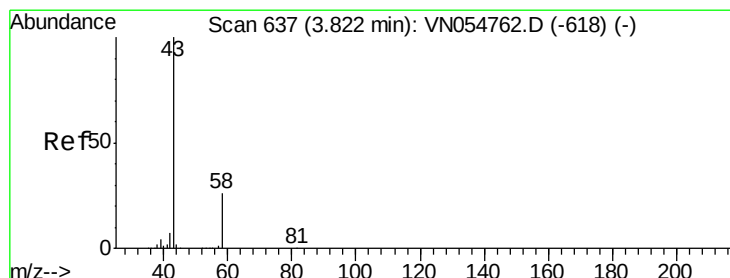
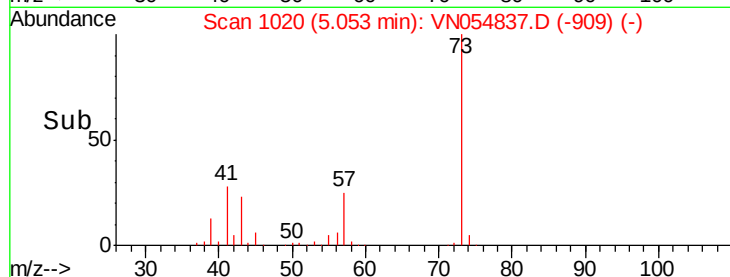
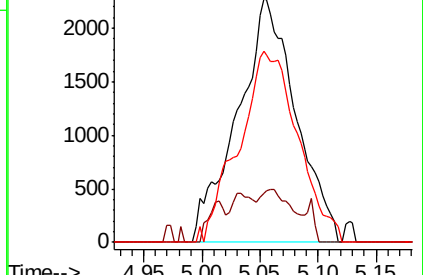
51 79.5 29.6 44.4#



Abundance Ion 53.00 (52.70 to 53.70): VN054837.D (-909) (-)

Ion 52.00 (51.70 to 52.70): VN054837.D (-909) (-)

Ion 51.00 (50.70 to 51.70): VN054837.D (-909) (-)



#16

Acetone

Concen: 0.323 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054837.D

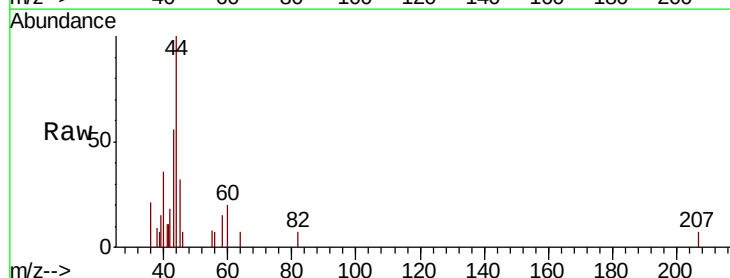
Acq: 31 Mar 2019 7:30

Tgt Ion: 43 Resp: 550

Ion Ratio Lower Upper

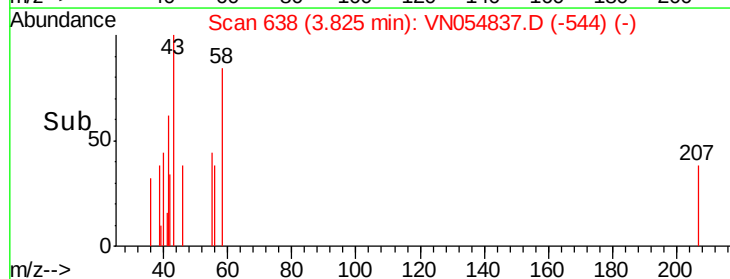
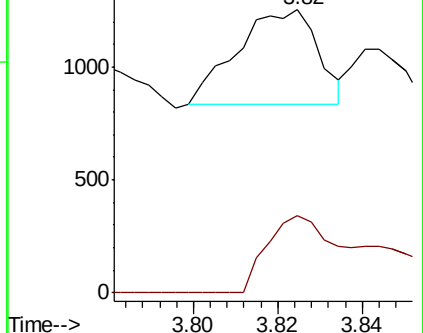
43 100

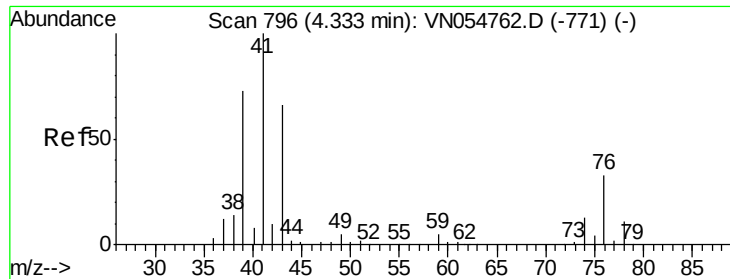
58 81.8 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN054837.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN054837.D (-544) (-)

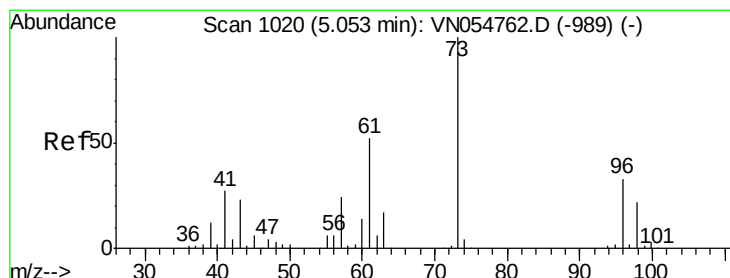
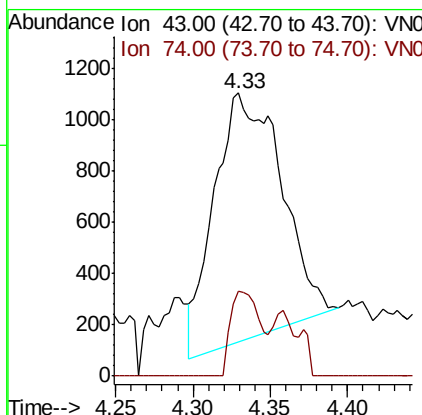
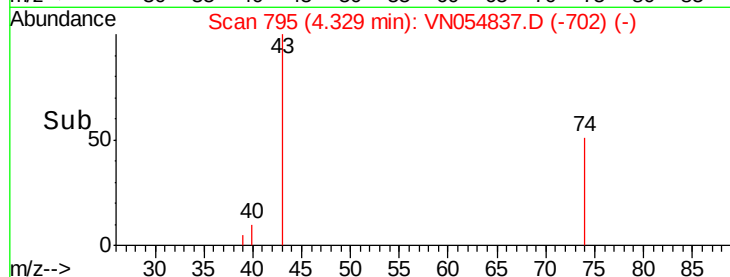
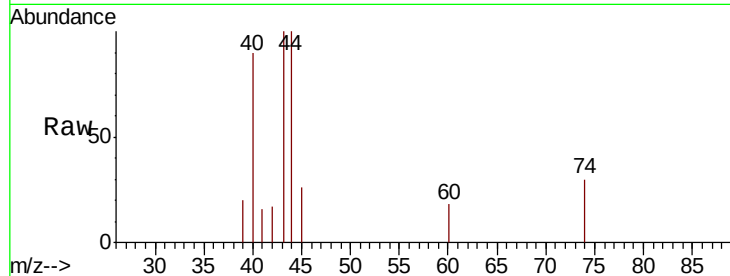




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

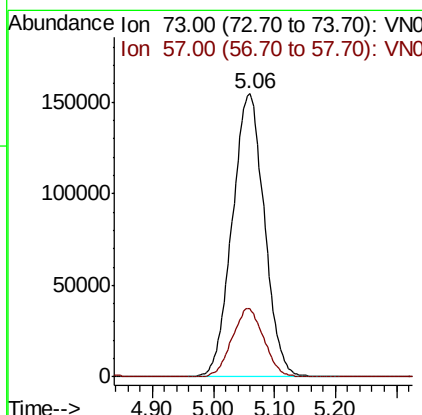
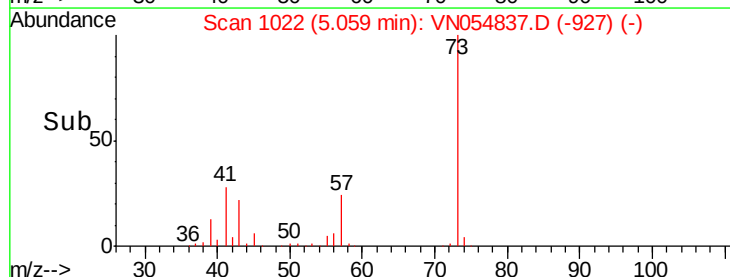
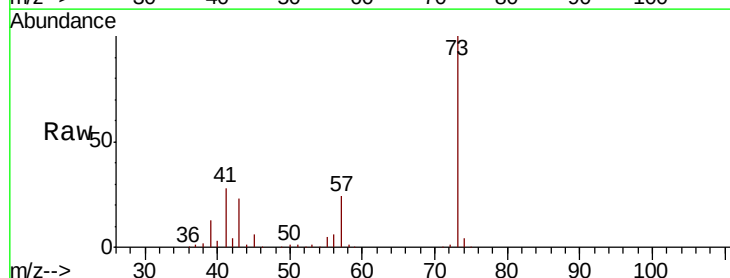
Instrument :
MSVOA_N
ClientSampled :

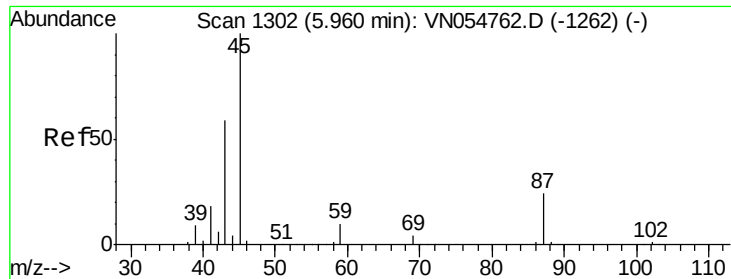
Tot Ion: 43 Resp: 2925
Ion Ratio Lower Upper
43 100
74 15.0 20.8 31.2#



#19
Methyl tert-butyl Ether
Concen: 38.837 ug/l
RT: 5.06 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

Tgt Ion: 73 Resp: 565598
Ion Ratio Lower Upper
73 100
57 23.9 16.8 25.2





#22

Diisopropyl ether

Concen: 0.597 ug/l

RT: 5.97 min Scan# 1305

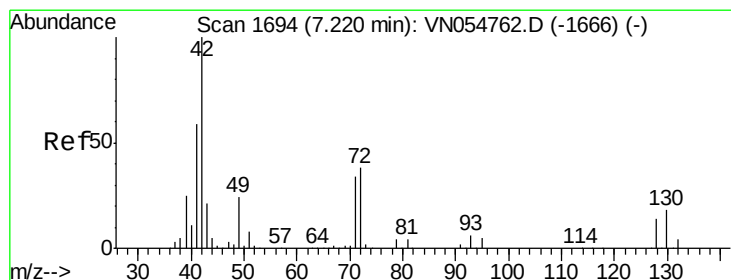
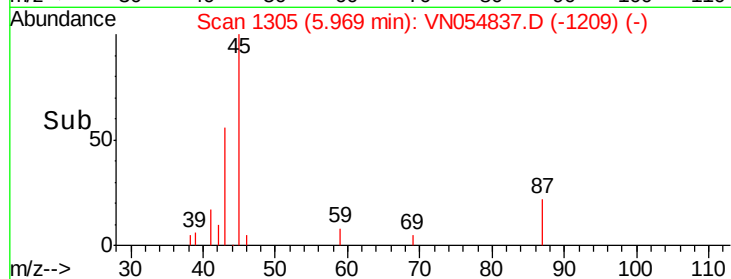
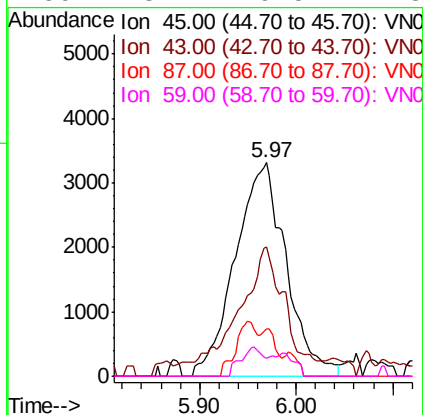
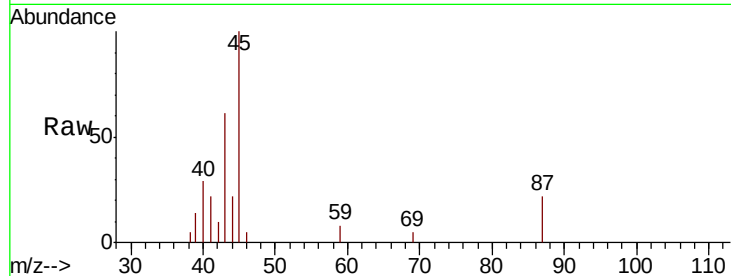
Delta R.T. 0.01 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	45	Resp:	12103
Ion	Ratio	Lower	Upper
45	100		
43	54.0	48.2	72.2
87	22.3	24.9	37.3#
59	8.2	9.5	14.3#



#29

Tetrahydrofuran

Concen: 0.340 ug/l

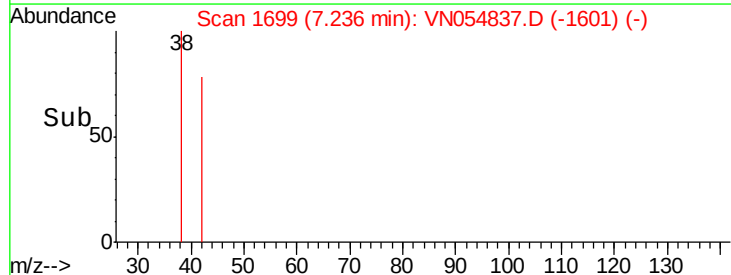
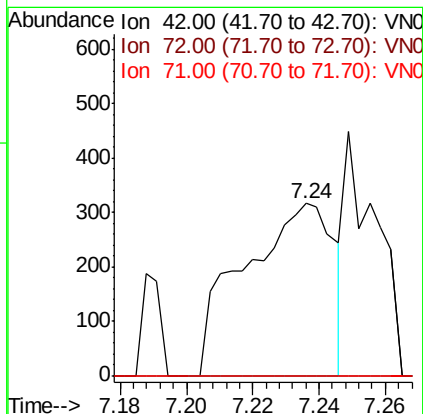
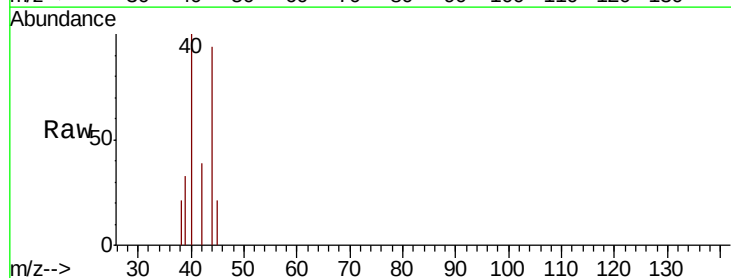
RT: 7.24 min Scan# 1699

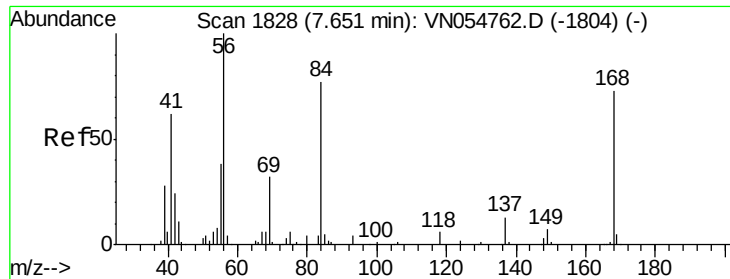
Delta R.T. 0.02 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Tgt Ion:	42	Resp:	595
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.8	56.6#
71	0.0	36.2	54.2#

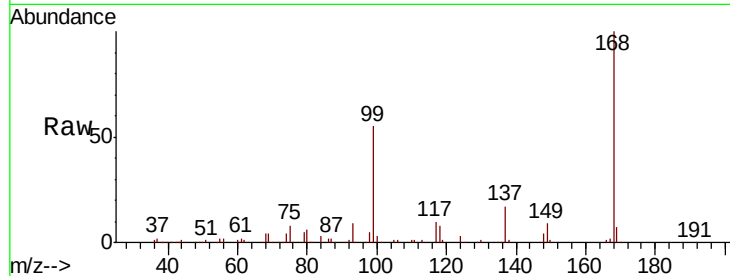




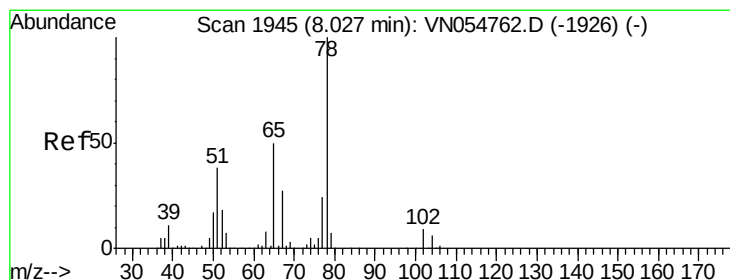
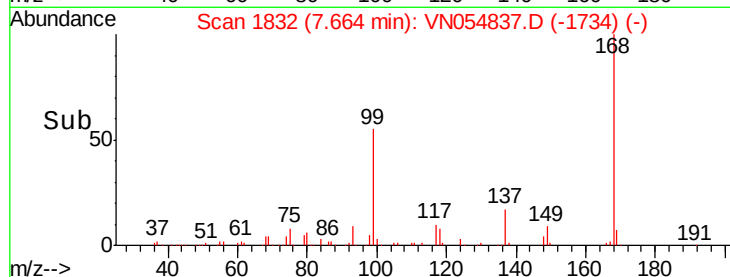
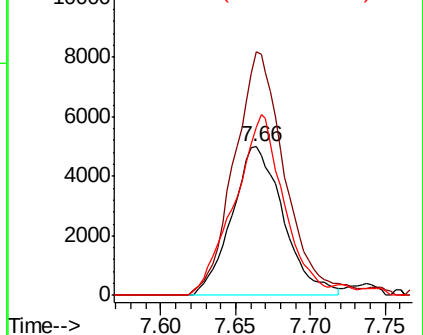
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11962
Ion Ratio Lower Upper
56 100
69 163.9 27.8 41.6#
84 113.5 74.6 111.8#

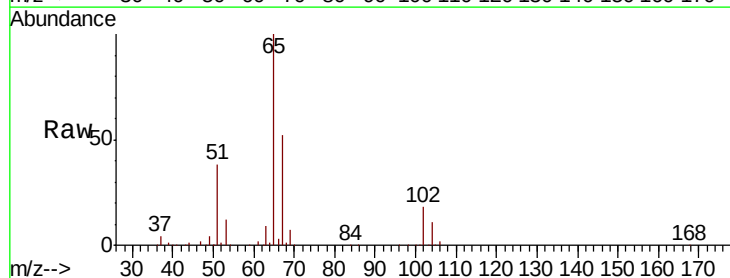


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

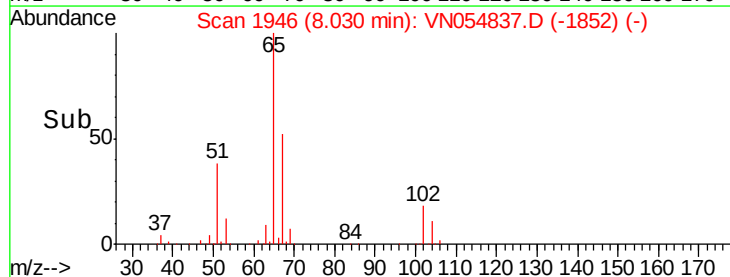
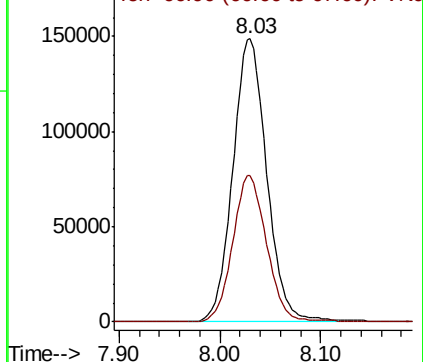


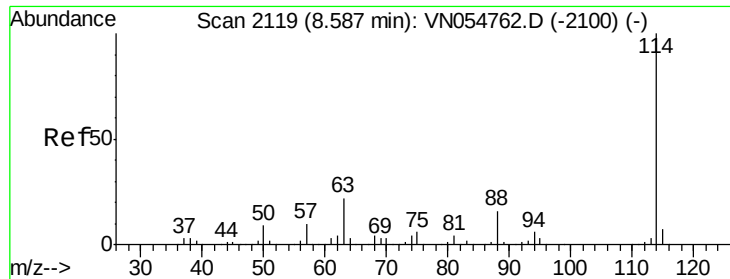
#33
1,2-Dichloroethane-d4
Concen: 48.520 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

Tgt Ion: 65 Resp: 346423
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.6



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

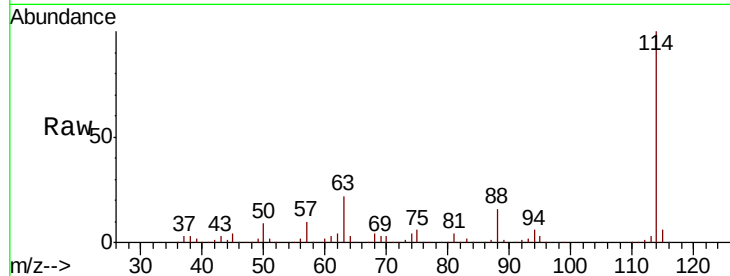




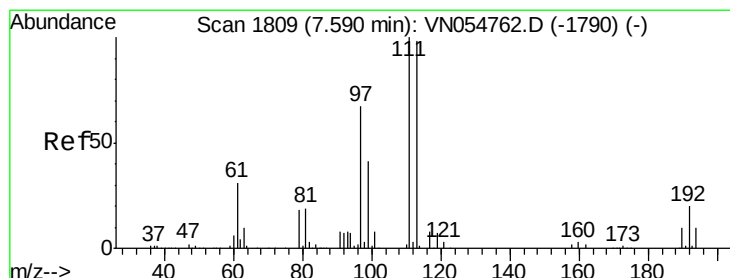
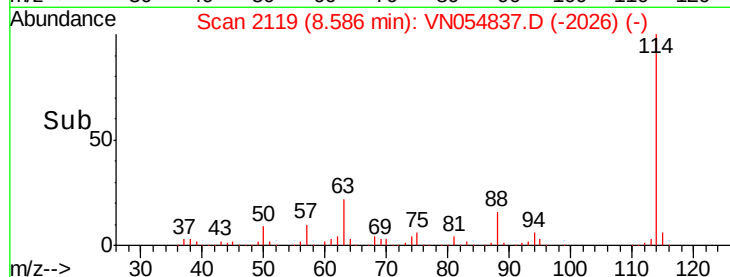
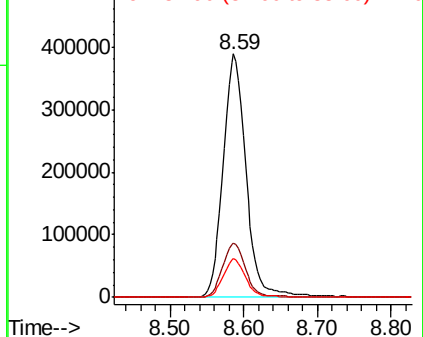
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 843796
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 35.2
 88 15.8 0.0 30.2

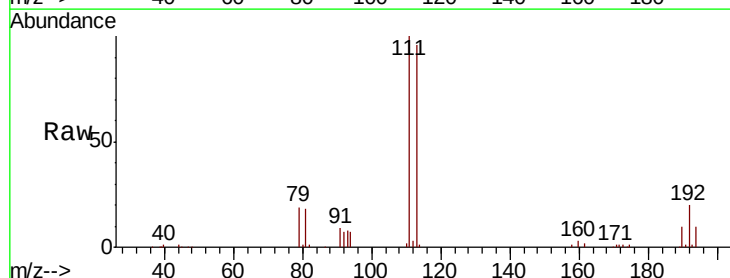


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

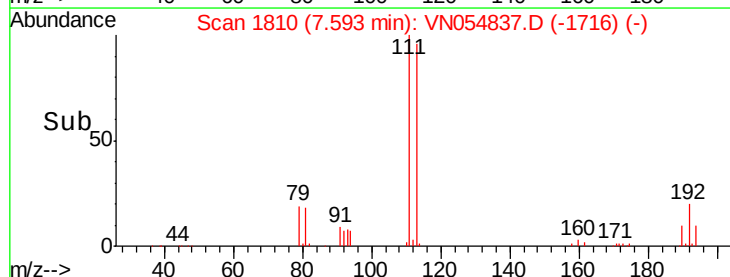
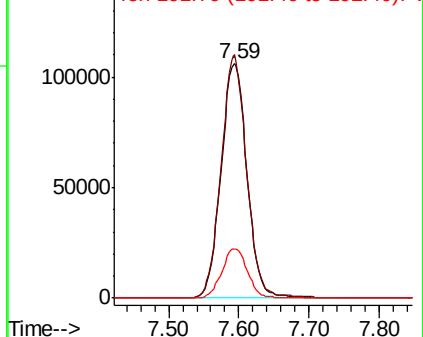


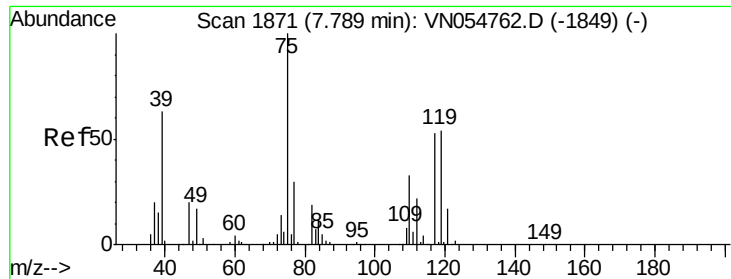
#35
 Dibromofluoromethane
 Concen: 48.571 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion:113 Resp: 273235
 Ion Ratio Lower Upper
 113 100
 111 101.5 82.2 123.4
 192 20.7 19.2 28.8



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

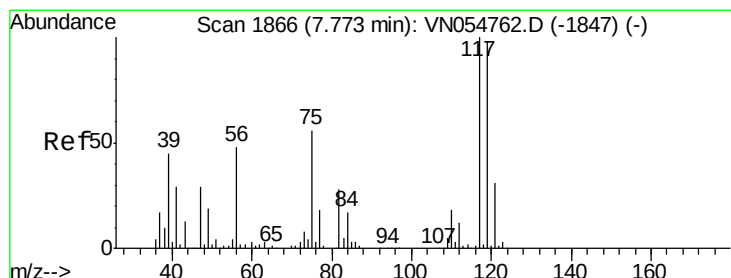
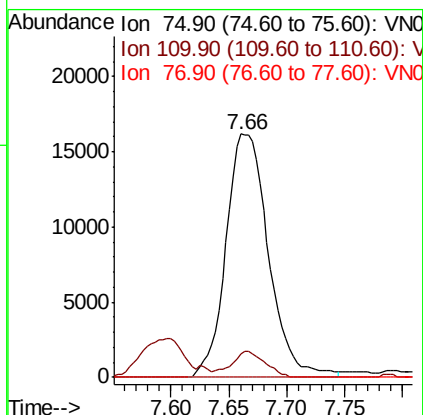
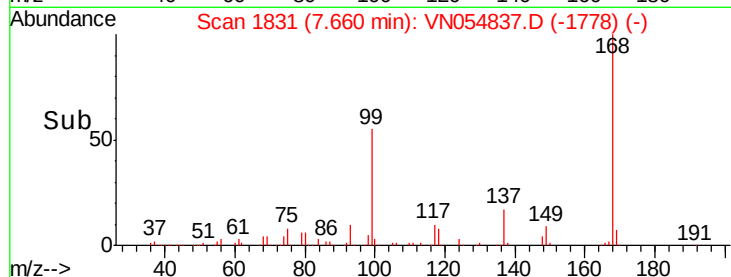
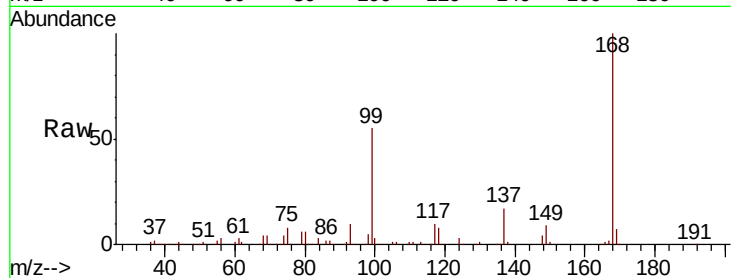




#36
 1,1-Dichloropropene
 Concen: 5.242 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

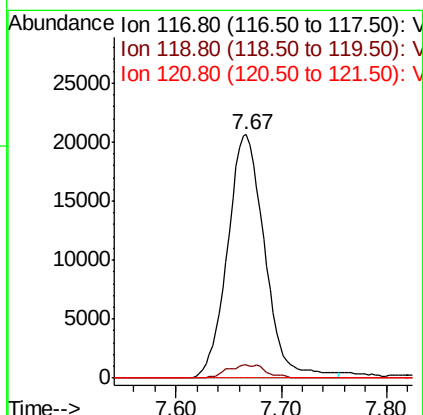
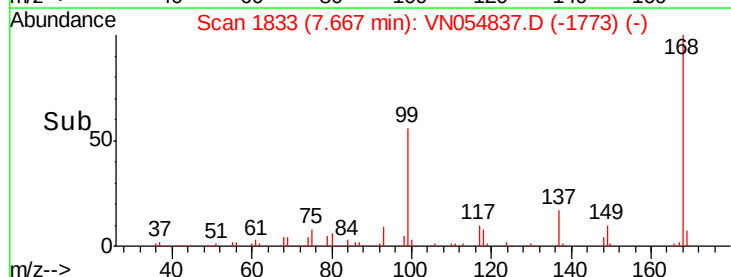
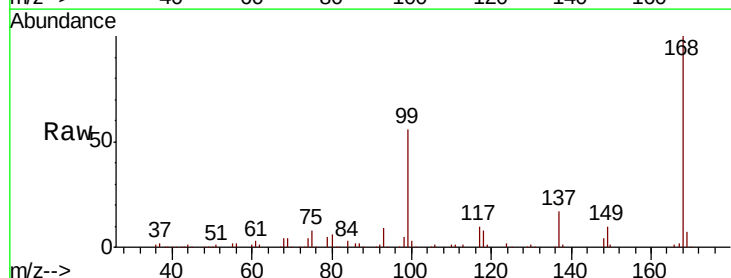
Instrument :
 MSVOA_N
 ClientSampleId :

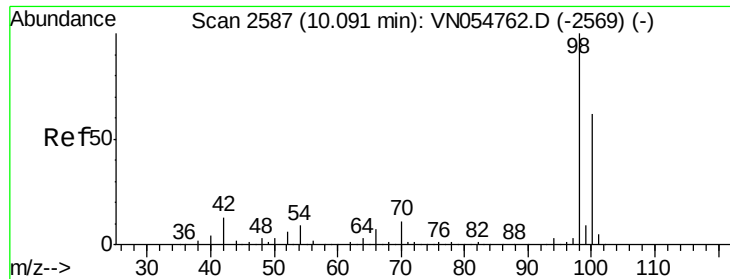
Tot Ion: 75 Resp: 41217
 Ion Ratio Lower Upper
 75 100
 110 8.3 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.614 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion: 117 Resp: 50511
 Ion Ratio Lower Upper
 117 100
 119 5.3 76.3 114.5#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 48.817 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :

MSVOA_N

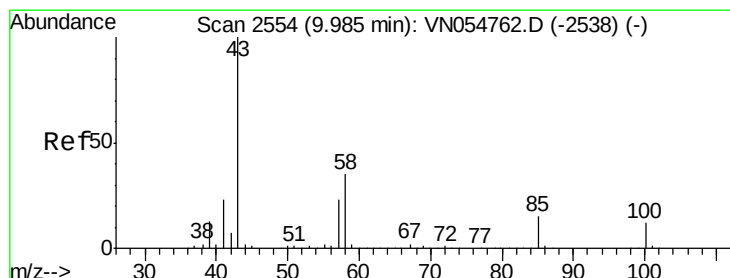
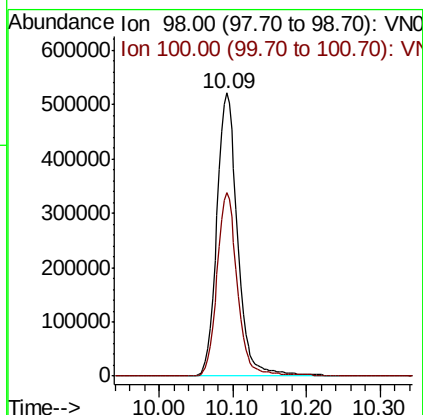
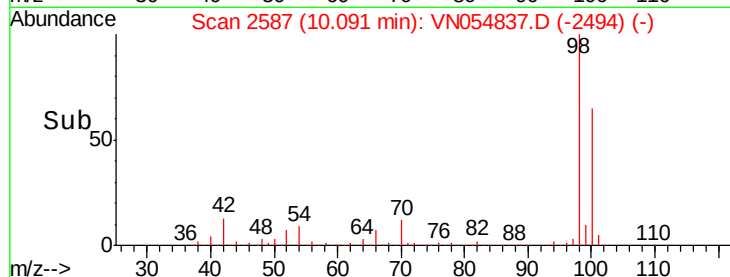
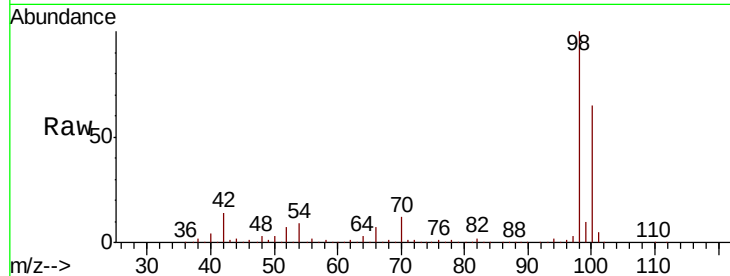
ClientSampled :

Tot Ion: 98 Resp: 1020974

Ion Ratio Lower Upper

98 100

100 63.3 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 0.312 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054837.D

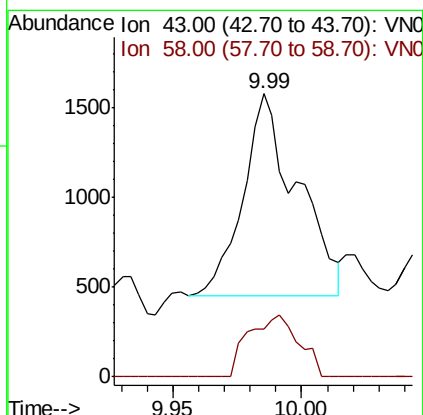
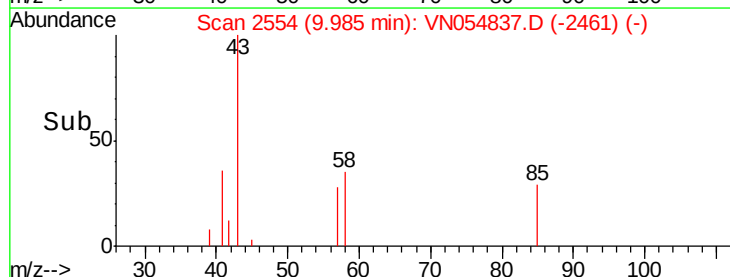
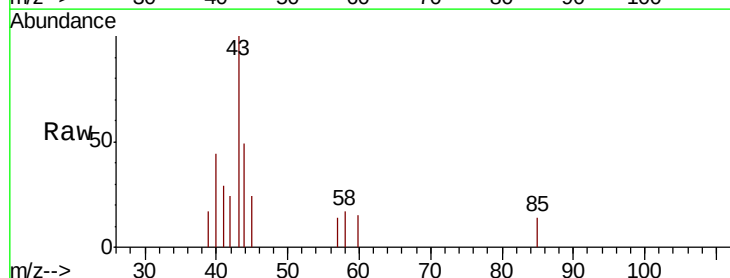
Acq: 31 Mar 2019 7:30

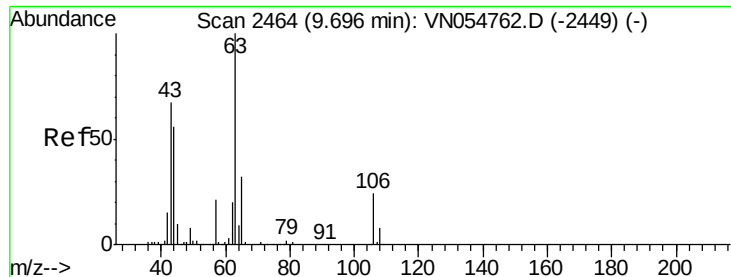
Tgt Ion: 43 Resp: 1645

Ion Ratio Lower Upper

43 100

58 28.5 31.8 47.6#

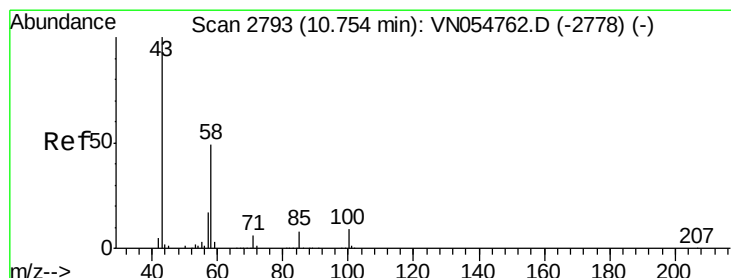
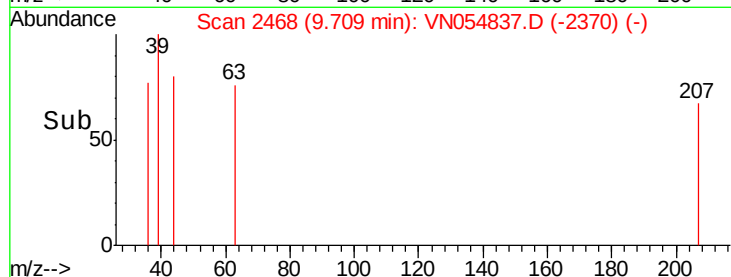
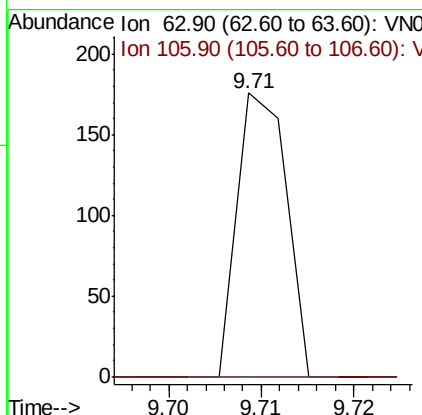
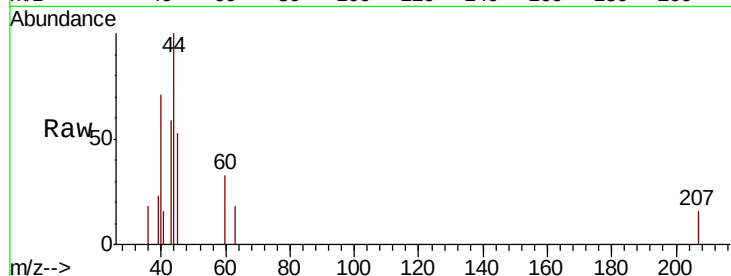




#58
 2-Chloroethyl Vinyl ether
 Concen: 10.377 ug/l
 RT: 9.71 min Scan# 2468
 Delta R.T. 0.01 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

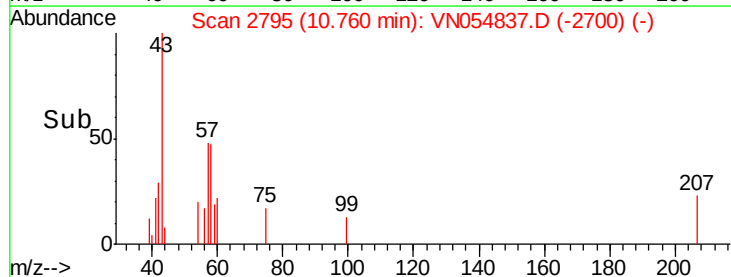
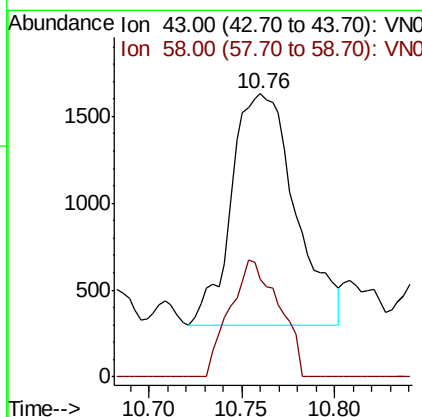
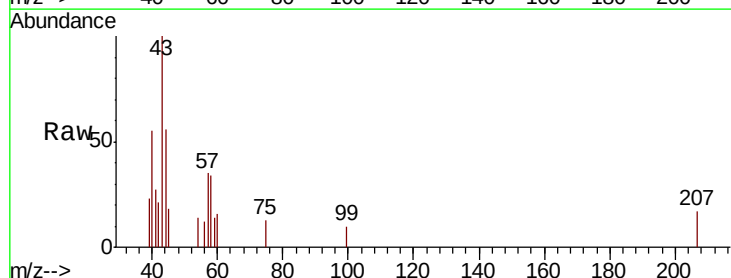
Instrument :
 MSVOA_N
 ClientSampled :

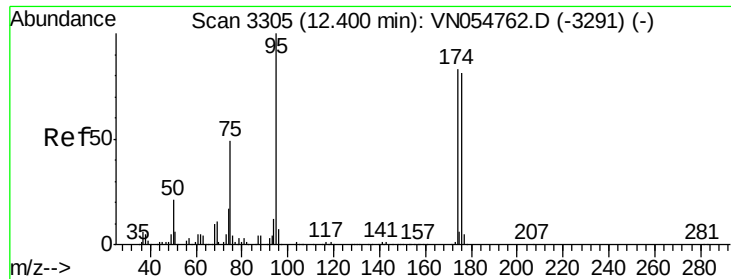
Tot Ion: 63 Resp: 65
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.4 36.6#



#59
 2-Hexanone
 Concen: 0.949 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.01 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion: 43 Resp: 3199
 Ion Ratio Lower Upper
 43 100
 58 38.7 28.0 83.9

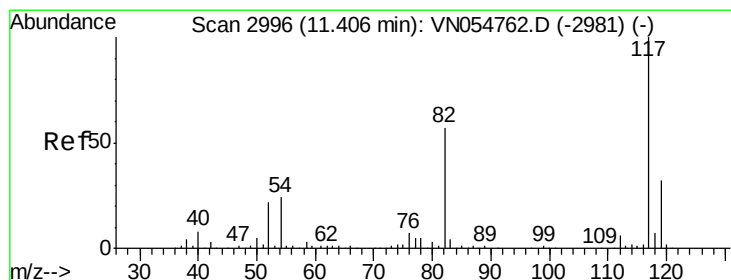
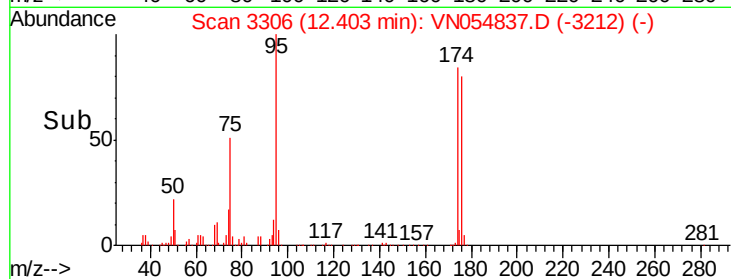
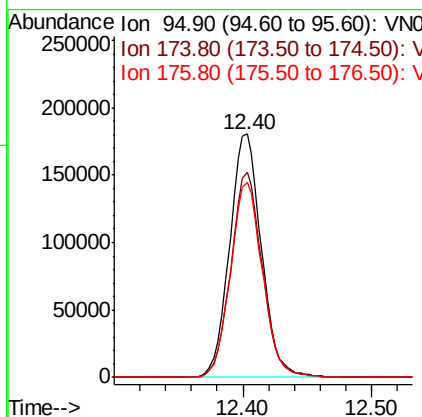
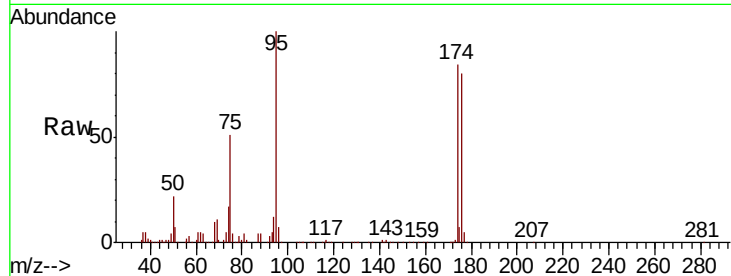




#62
4-Bromofluorobenzene
Concen: 44.250 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

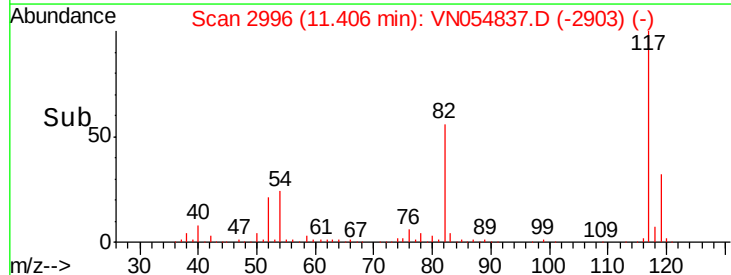
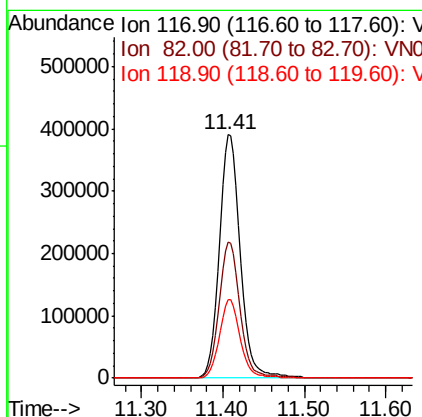
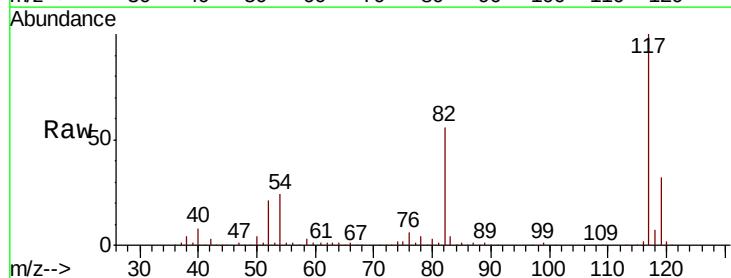
Instrument :
MSVOA_N
ClientSampled :

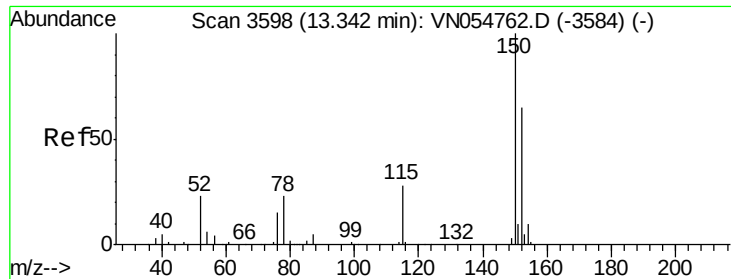
Tot Ion: 95 Resp: 307786
Ion Ratio Lower Upper
95 100
174 83.6 0.0 191.0
176 81.0 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054837.D
Acq: 31 Mar 2019 7:30

Tgt Ion: 117 Resp: 711731
Ion Ratio Lower Upper
117 100
82 56.1 40.0 60.0
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :

MSVOA_N

ClientSampled :

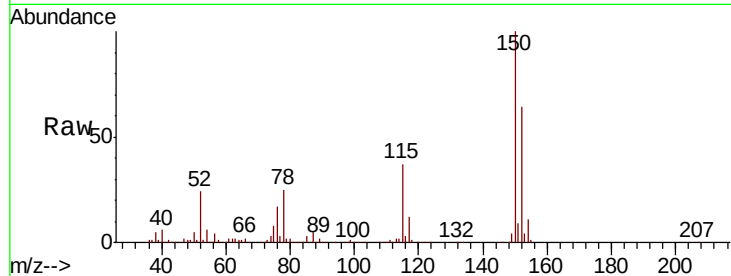
Tot Ion:152 Resp: 249786

Ion Ratio Lower Upper

152 100

115 57.5 27.2 81.6

150 156.0 0.0 349.2

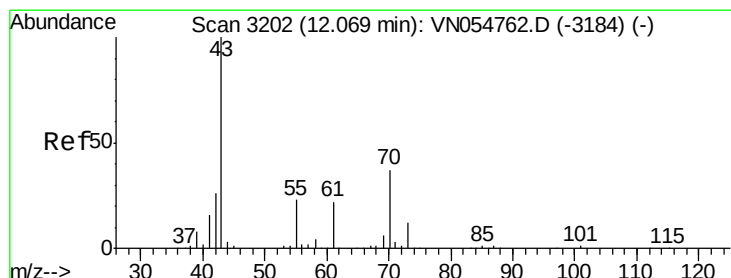
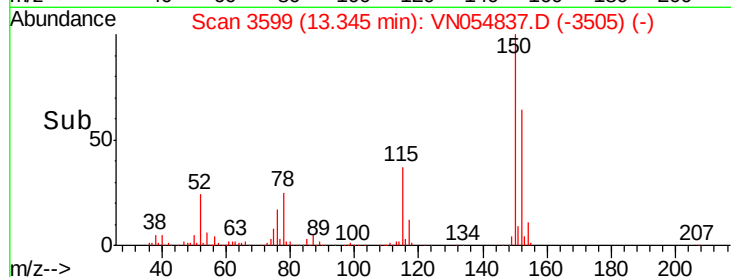
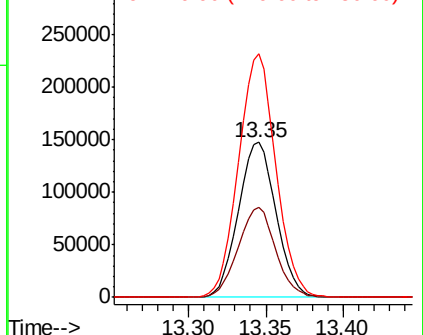


Abundance

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: 0.261 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Tgt Ion: 43 Resp: 1660

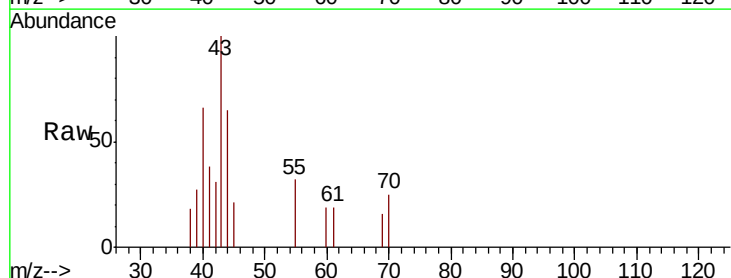
Ion Ratio Lower Upper

43 100

70 41.3 35.4 53.0

55 27.6 19.8 29.6

61 24.8 19.8 29.6



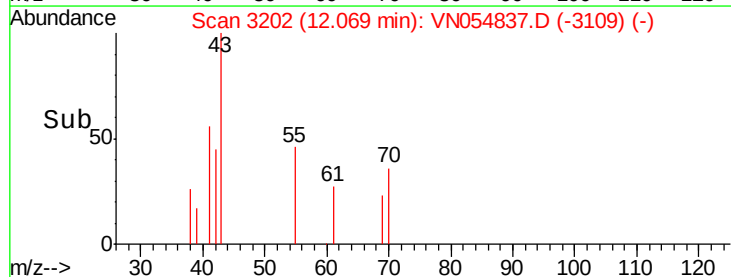
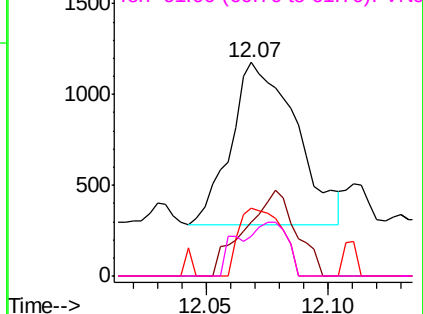
Abundance

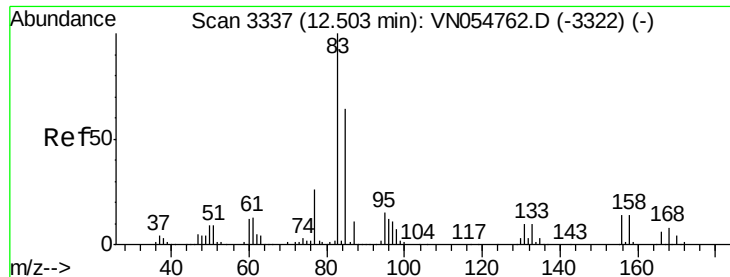
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

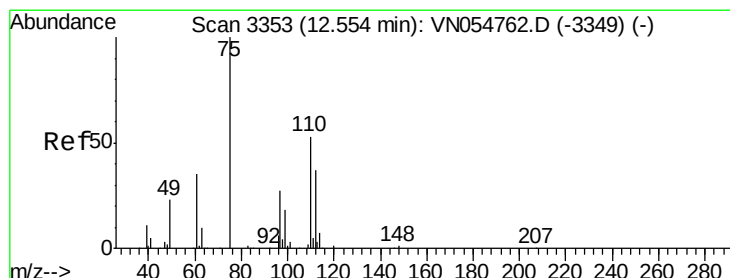
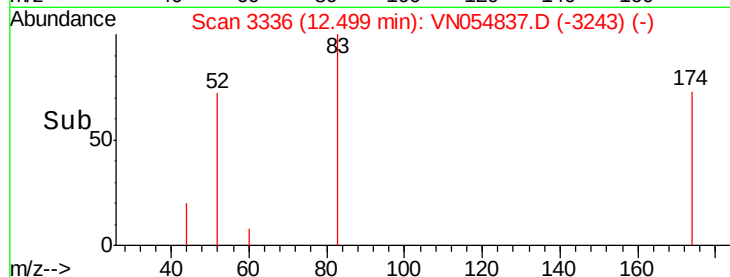
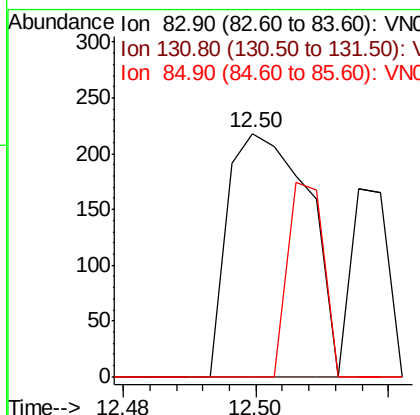
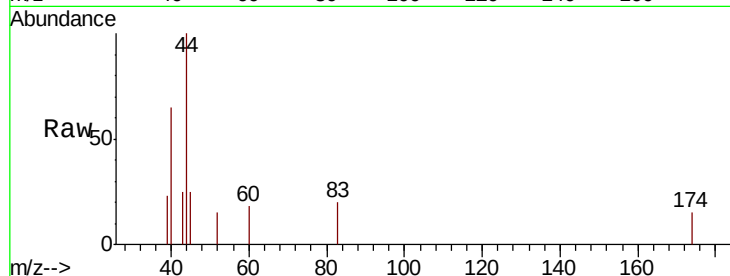




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.50 min Scan# 3336
 Delta R.T. -0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

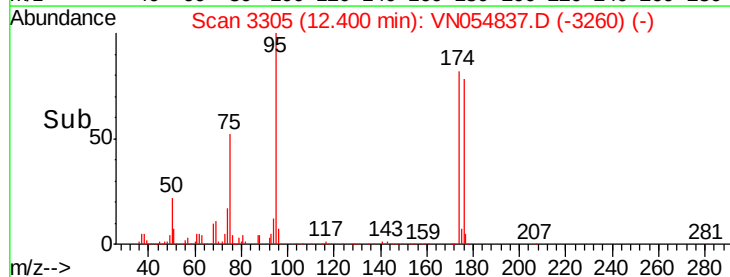
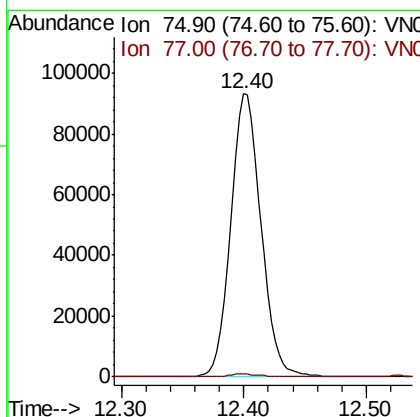
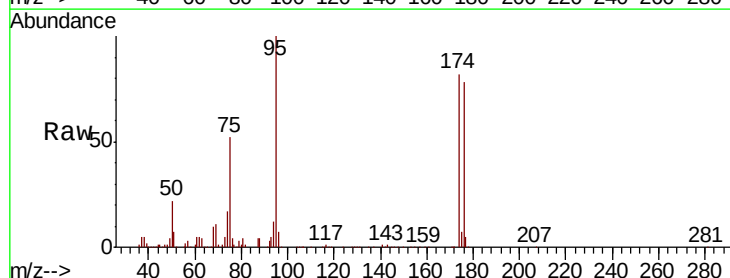
Instrument :
 MSVOA_N
 ClientSampleId :

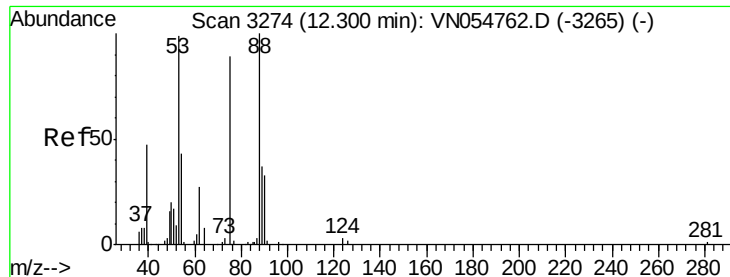
Tot Ion: 83 Resp: 184
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.8 17.4#
 85 35.9 32.2 96.6



#76
 1,2,3-Trichloropropane
 Concen: 37.095 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion: 75 Resp: 160968
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#

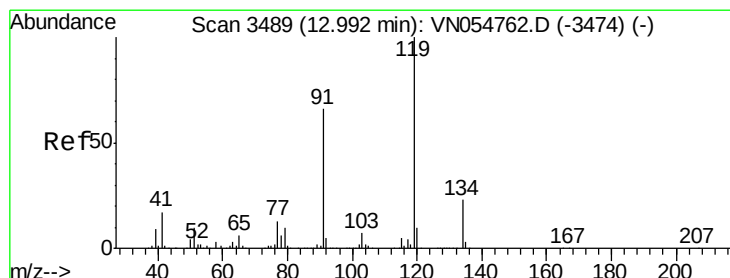
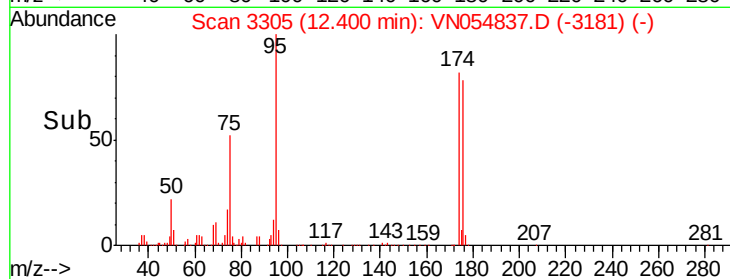
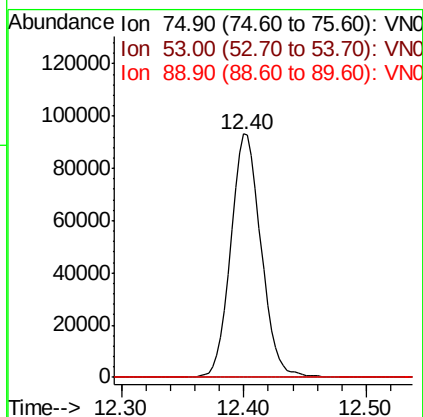
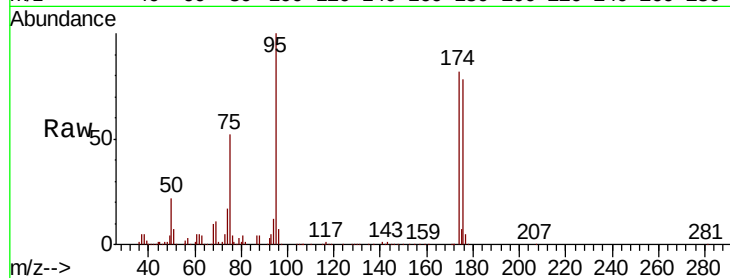




#81
 trans-1,4-Dichloro-2-butene
 Concen: 144.290 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

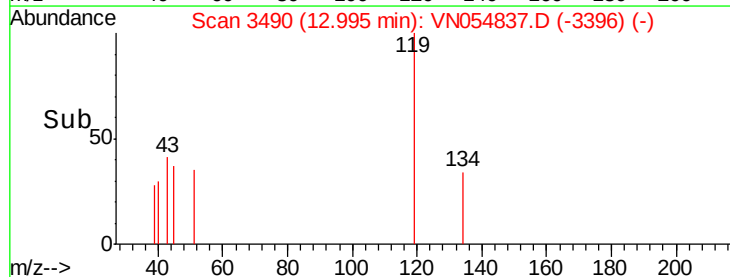
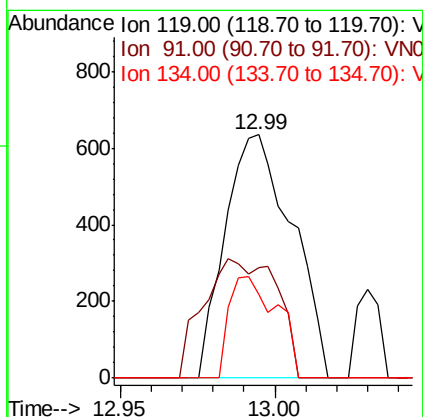
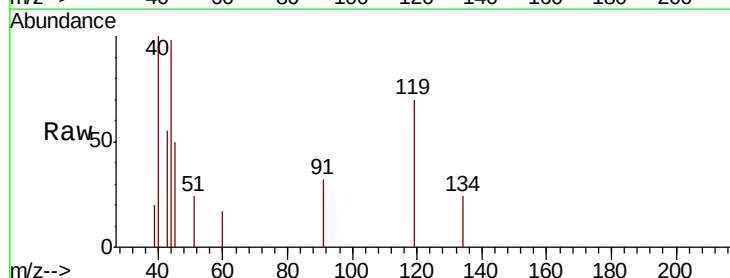
Instrument :
 MSVOA_N
 ClientSampled :

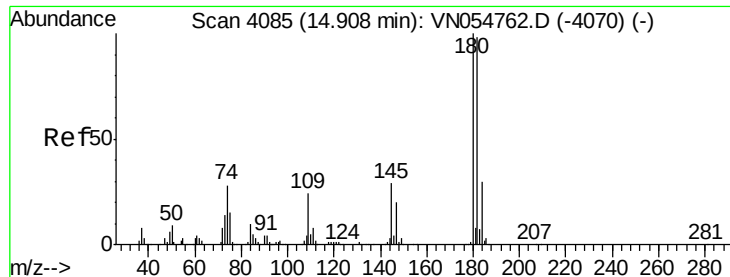
Tot Ion: 75 Resp: 160968
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion: 119 Resp: 960
 Ion Ratio Lower Upper
 119 100
 91 53.6 30.9 92.8
 134 29.5 13.2 39.6

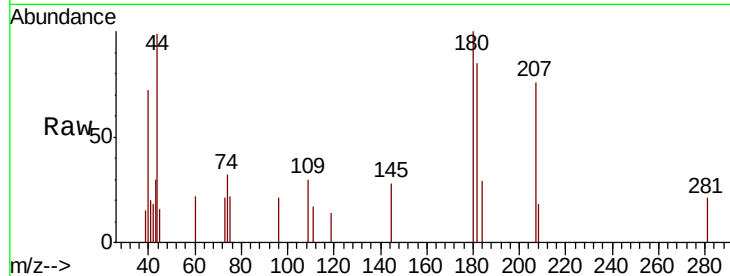




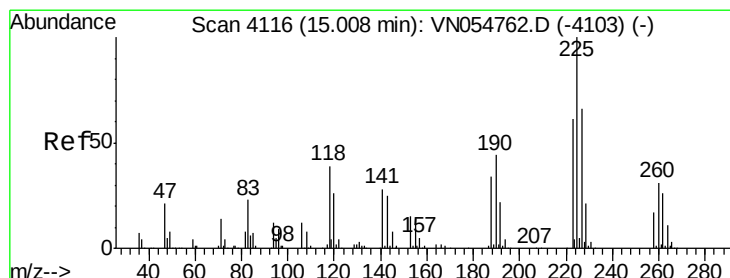
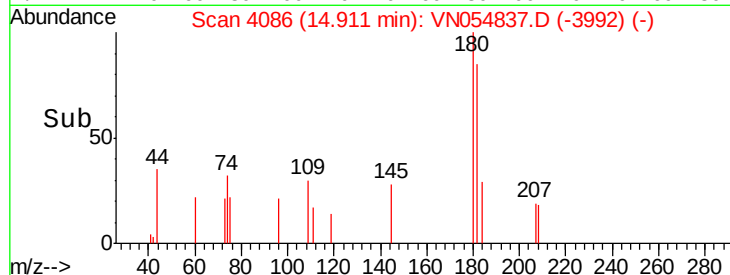
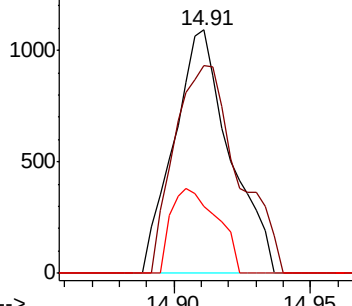
#93
 1,2,4-Trichlorobenzene
 Concen: 0.386 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 1550
 Ion Ratio Lower Upper
 180 100
 182 97.4 48.0 144.2
 145 29.0 14.2 42.8

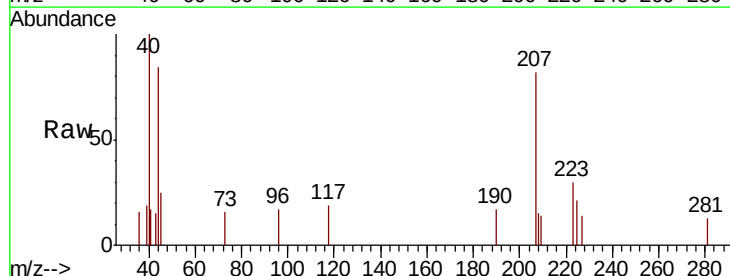


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

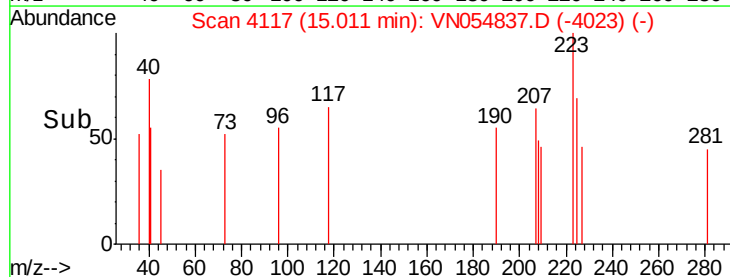
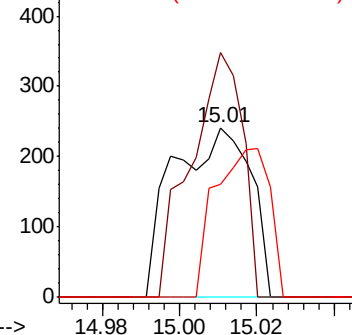


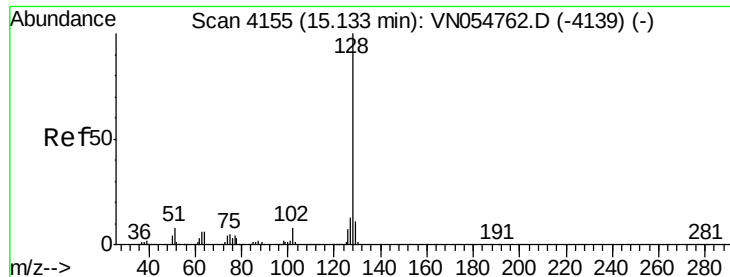
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054837.D
 Acq: 31 Mar 2019 7:30

Tgt Ion:225 Resp: 336
 Ion Ratio Lower Upper
 225 100
 223 96.4 31.1 93.5#
 227 61.9 31.9 95.9



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: 0.622 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

Instrument :

MSVOA_N

ClientSampleId :

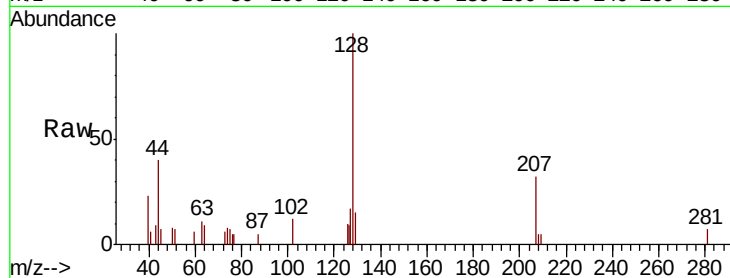
Tot Ion:128 Resp: 5604

Ion Ratio Lower Upper

128 100

127 11.3 10.1 15.1

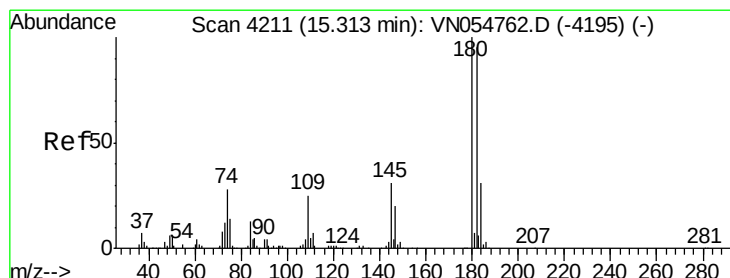
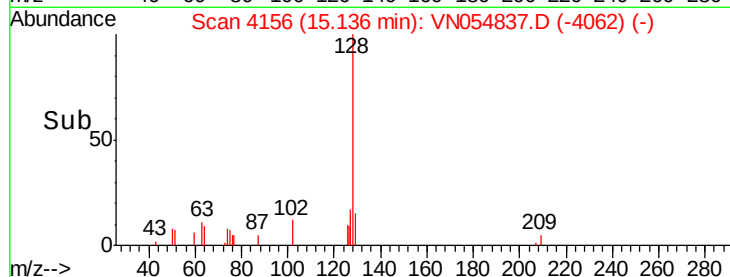
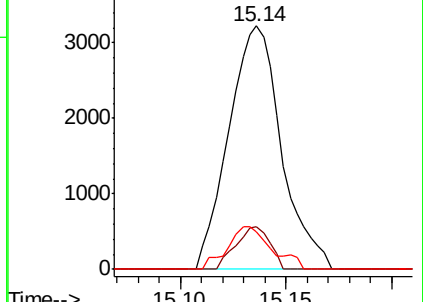
129 14.5 8.7 13.1#



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: 0.445 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054837.D

Acq: 31 Mar 2019 7:30

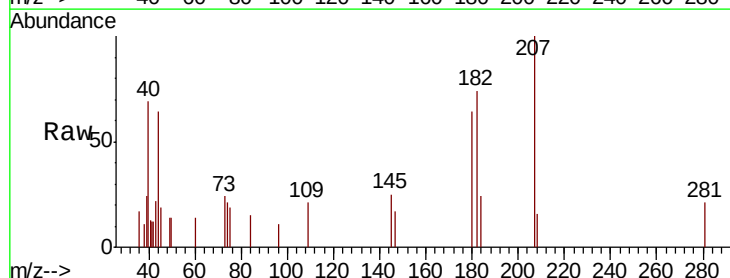
Tgt Ion:180 Resp: 1803

Ion Ratio Lower Upper

180 100

182 102.8 47.5 142.6

145 24.2 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

