

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054838.D
 Acq On : 31 Mar 2019 7:56
 Operator : JC/SP
 Sample : K2164-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 01 01:42:56 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	530889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	866357	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	710709	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246863	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	352877	49.31	ug/l	0.00
Spiked Amount						
			Recovery	=	98.62%	
35) Dibromofluoromethane	7.59	113	274370	47.50	ug/l	0.00
Spiked Amount						
			Recovery	=	95.00%	
50) Toluene-d8	10.09	98	1023778	47.68	ug/l	0.00
Spiked Amount						
			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	12.40	95	305845	42.83	ug/l	0.00
Spiked Amount						
			Recovery	=	85.66%	

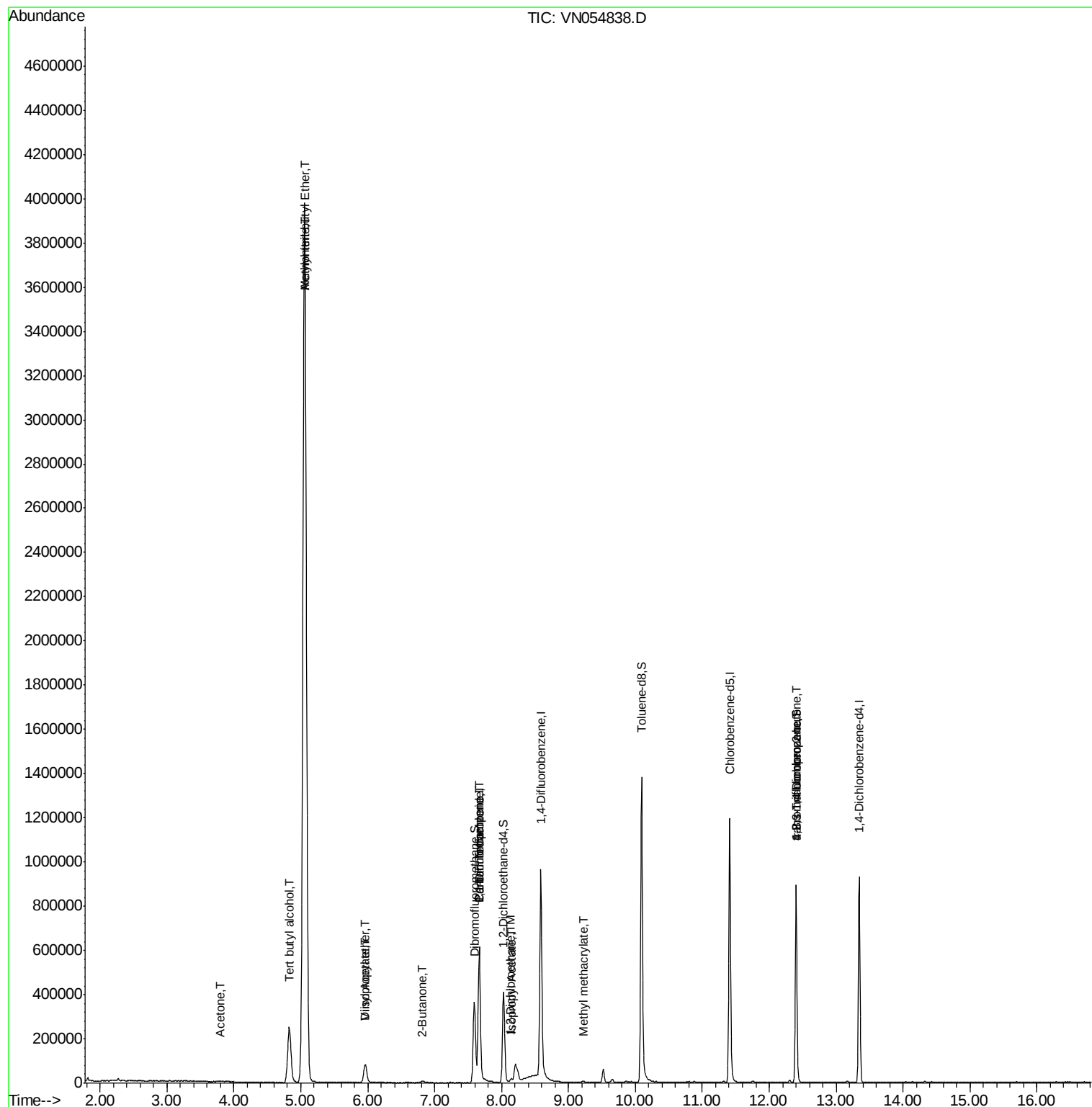
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	232	Below Cal	#	75
11) Tert butyl alcohol	4.83	59	422770	1133.832	ug/l #	70
15) Acrylonitrile	5.06	53	74602	35.996	ug/l #	30
16) Acetone	3.79	43	600	0.352	ug/l #	38
18) Methyl Acetate	4.34	43	2120	Below Cal	#	49
19) Methyl tert-butyl Ether	5.06	73	6505989	445.693	ug/l	93
22) Diisopropyl ether	5.97	45	113935	5.604	ug/l #	85
23) Vinyl Acetate	5.96	43	58669	4.147	ug/l #	74
25) 2-Butanone	6.81	43	3382	1.341	ug/l #	46
31) Cyclohexane	7.66	56	11067	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40808	5.055	ug/l #	42
38) Carbon Tetrachloride	7.67	117	48728	6.215	ug/l #	17
42) 1,2-Dichloroethane	8.13	62	5682	0.689	ug/l	83
43) Isopropyl Acetate	8.16	43	2026	0.211	ug/l #	60
48) Methyl methacrylate	9.22	41	2197	0.421	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	12.55	83	65	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	159071	37.092	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	159071	144.277	ug/l #	11
83) tert-Butylbenzene	12.99	119	1511	Below Cal		72
94) Hexachlorobutadiene	15.01	225	63	Below Cal	#	19

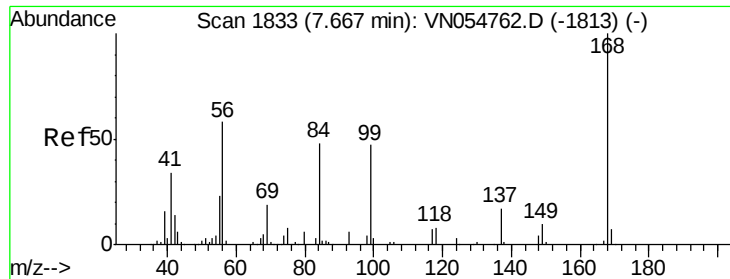
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054838.D

Acq: 31 Mar 2019 7:56

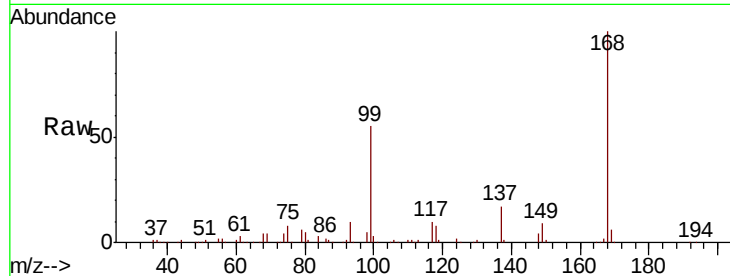
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 530889

Ion Ratio Lower Upper

168 100

99 54.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

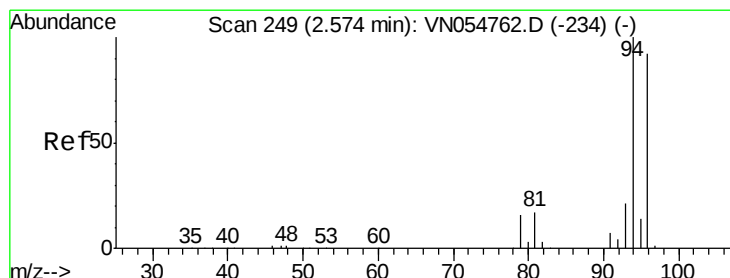
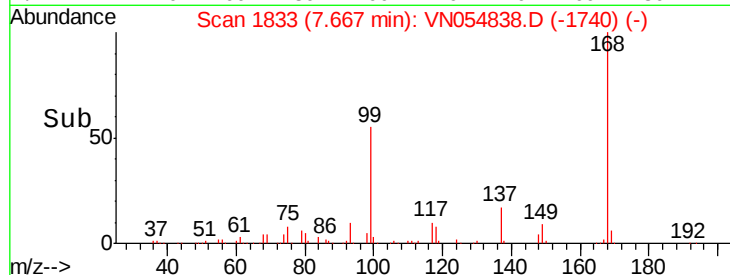
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054838.D

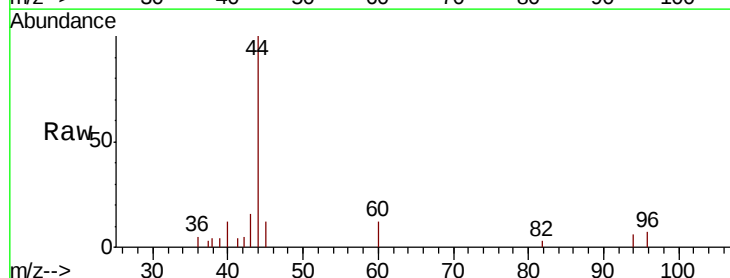
Acq: 31 Mar 2019 7:56

Tgt Ion: 94 Resp: 232

Ion Ratio Lower Upper

94 100

96 120.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

400

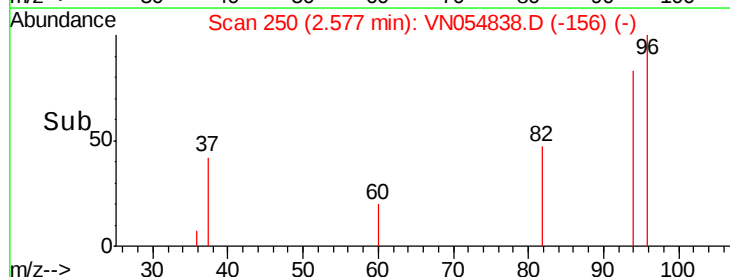
300

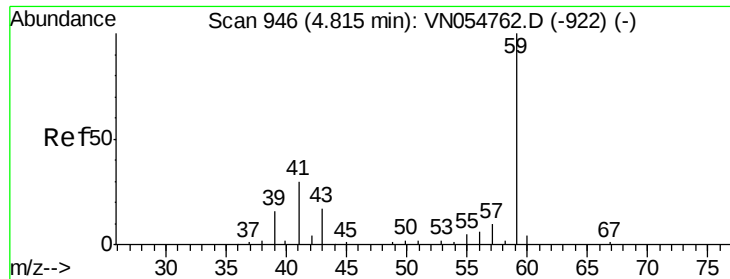
200

100

0

Time-->



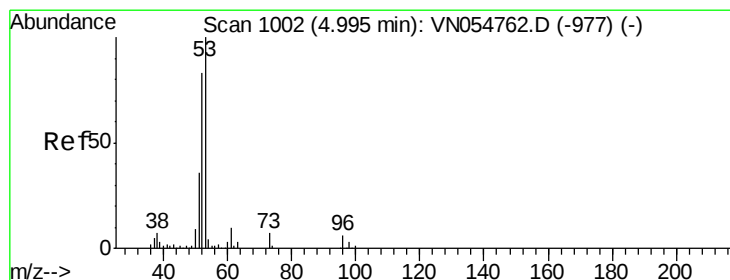
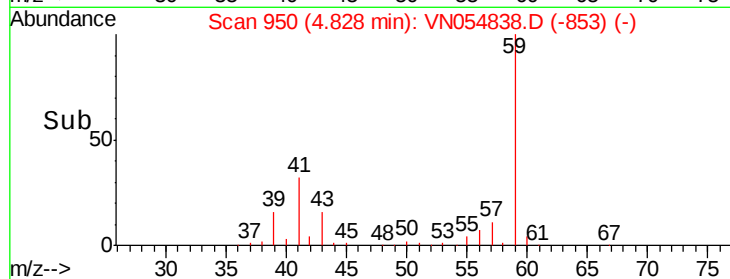
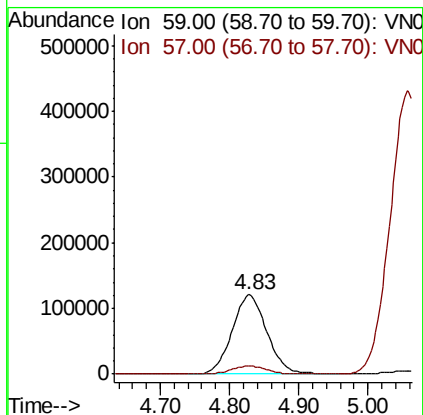
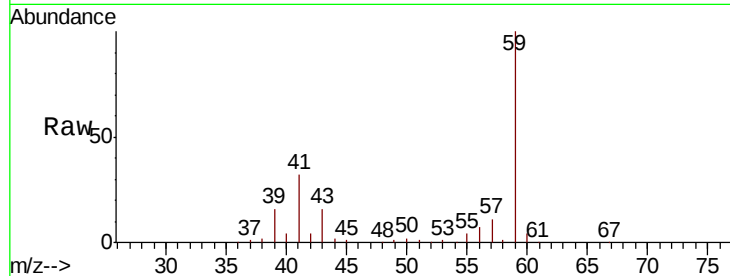


#11

Tert butyl alcohol
 Concen: 1133.832 ug/l
 RT: 4.83 min Scan# 950
 Delta R.T. 0.01 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

Instrument :
 MSVOA_N
 ClientSampled :

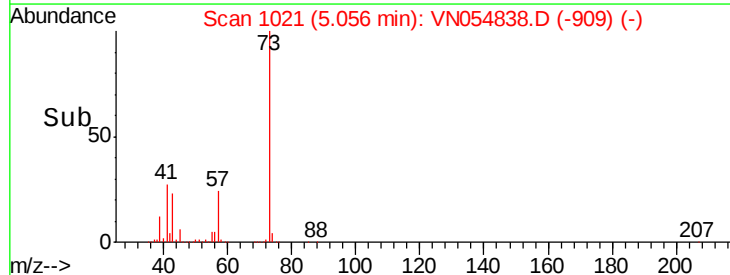
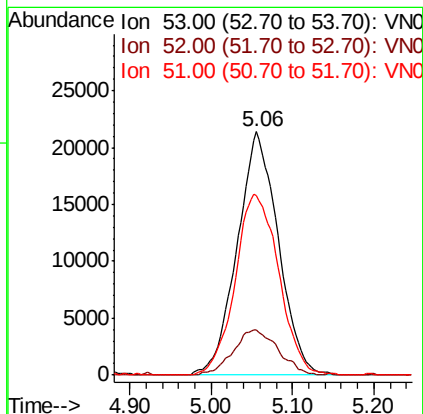
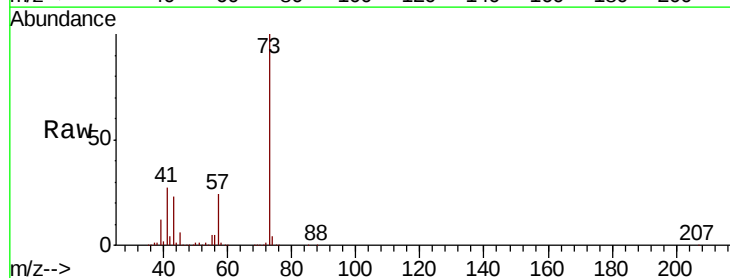
Tot Ion: 59 Resp: 422770
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

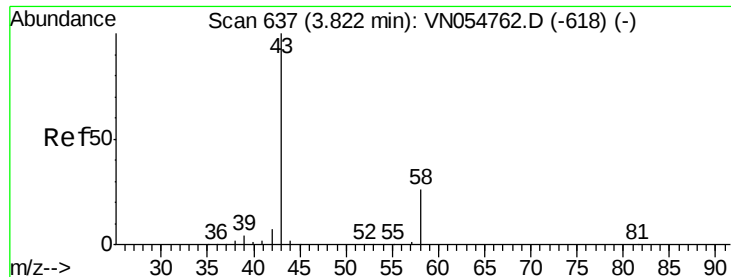


#15

Acrylonitrile
 Concen: 35.996 ug/l
 RT: 5.06 min Scan# 1021
 Delta R.T. 0.06 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

Tgt Ion: 53 Resp: 74602
 Ion Ratio Lower Upper
 53 100
 52 20.3 66.4 99.6#
 51 79.0 29.6 44.4#

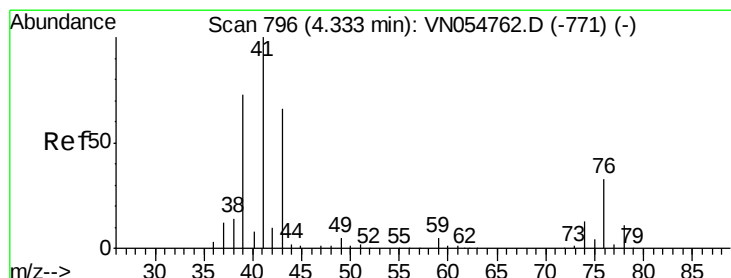
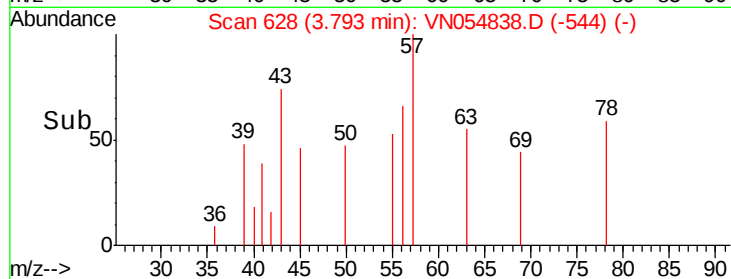
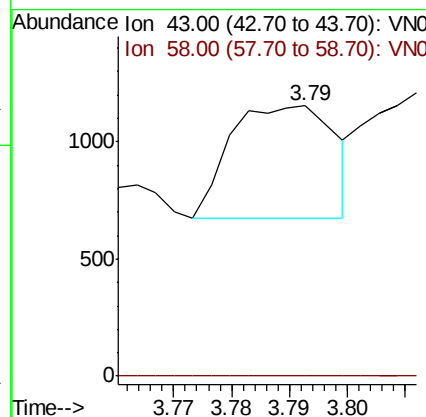
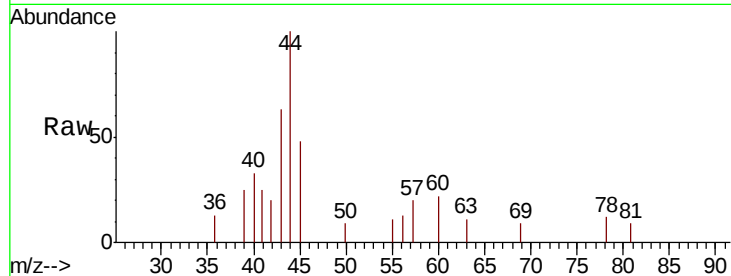




#16
Acetone
Concen: 0.352 ug/l
RT: 3.79 min Scan# 628
Delta R.T. -0.03 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

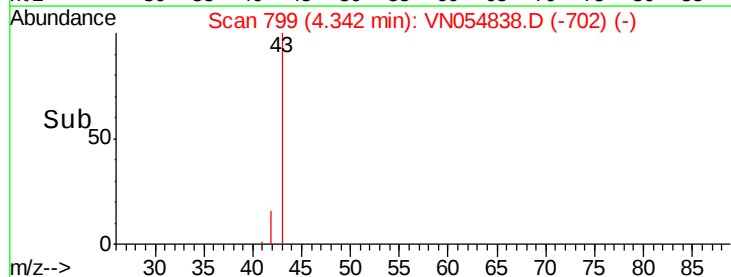
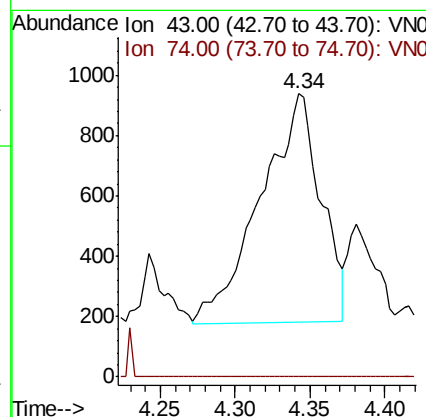
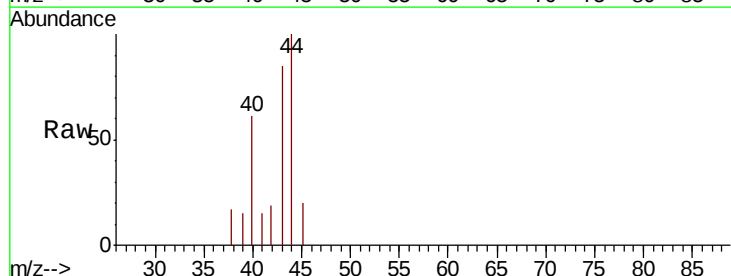
Instrument :
MSVOA_N
ClientSampled :

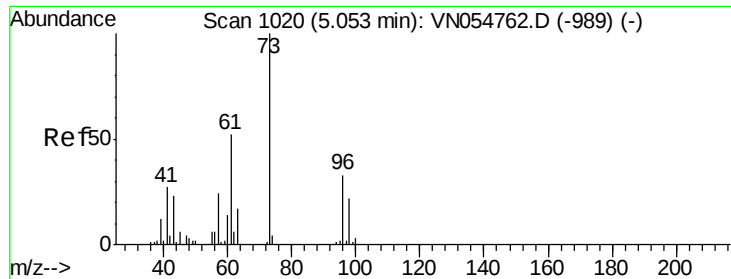
Tot Ion: 43 Resp: 600
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

Tgt Ion: 43 Resp: 2120
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#

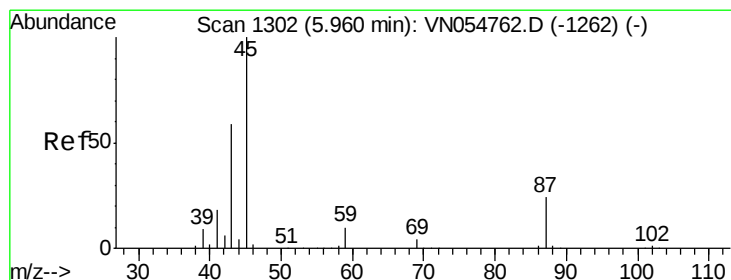
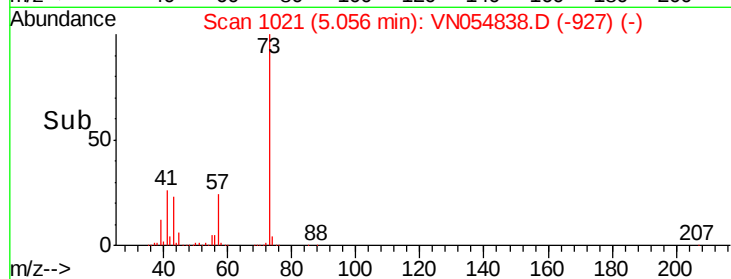
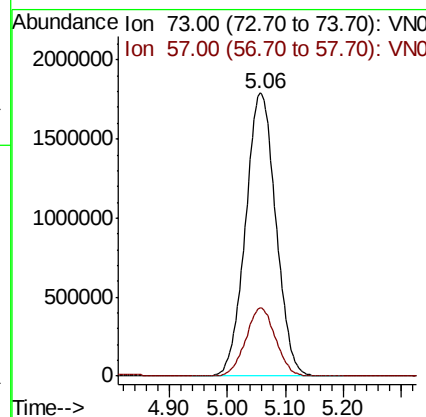
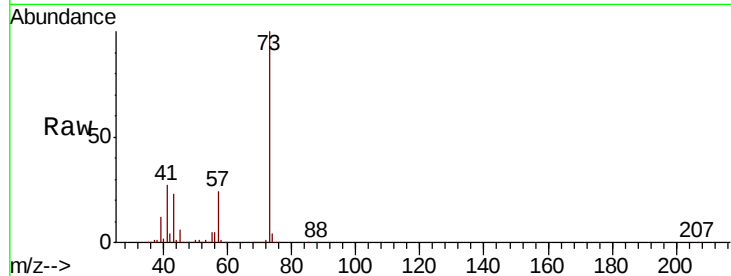




#19
Methvl tert-butvl Ether
Concen: 445.693 ug/l
RT: 5.06 min Scan# 1021
Delta R.T. 0.00 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

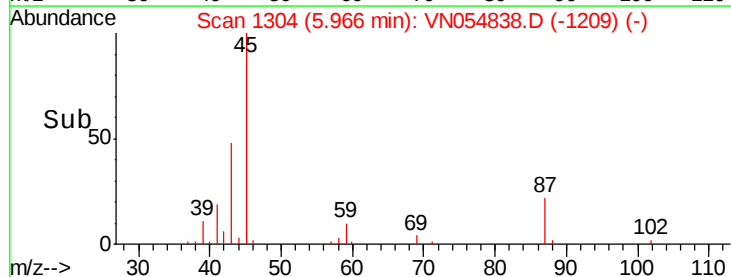
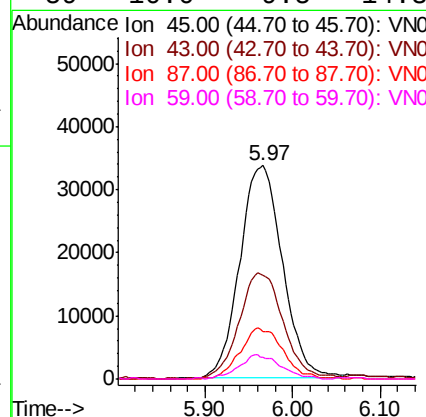
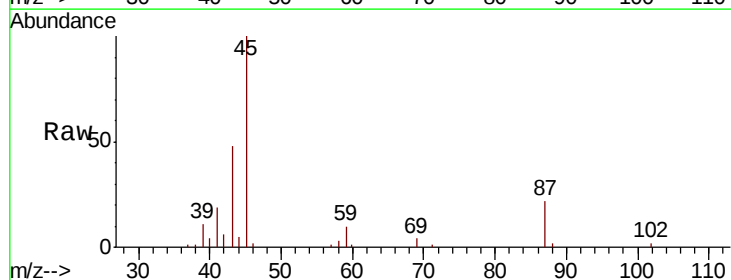
Instrument :
MSVOA_N
ClientSampleId :

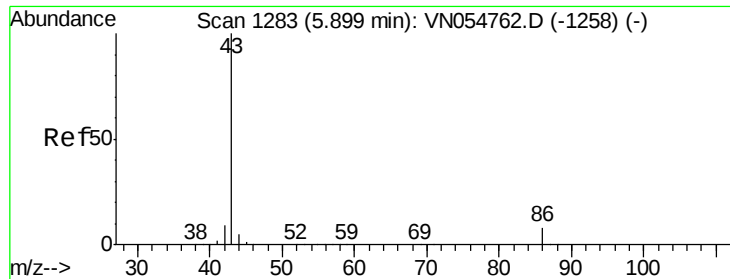
Tot Ion: 73 Resp: 6505989
Ion Ratio Lower Upper
73 100
57 24.0 16.8 25.2



#22
Diisopropyl ether
Concen: 5.604 ug/l
RT: 5.97 min Scan# 1304
Delta R.T. 0.01 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

Tgt Ion: 45 Resp: 113935
Ion Ratio Lower Upper
45 100
43 47.9 48.2 72.2#
87 22.0 24.9 37.3#
59 10.0 9.5 14.3

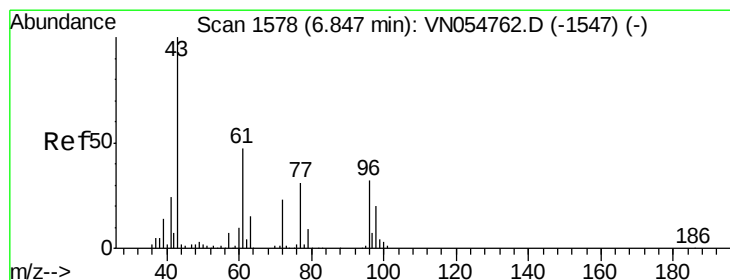
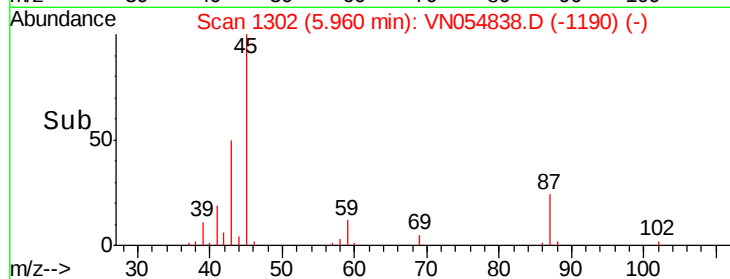
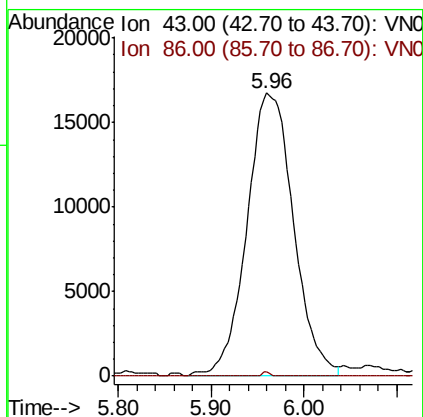
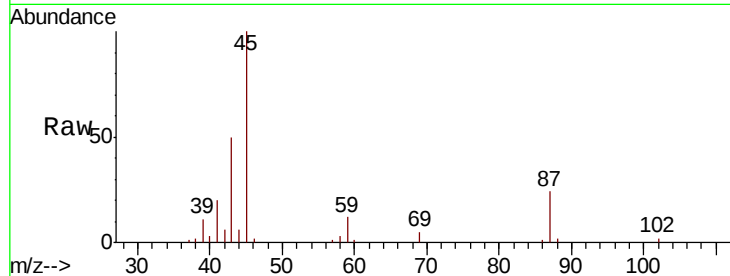




#23
 Vinyl Acetate
 Concen: 4.147 ug/l
 RT: 5.96 min Scan# 1302
 Delta R.T. 0.06 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

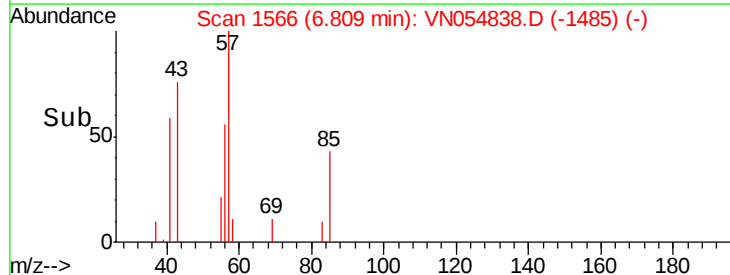
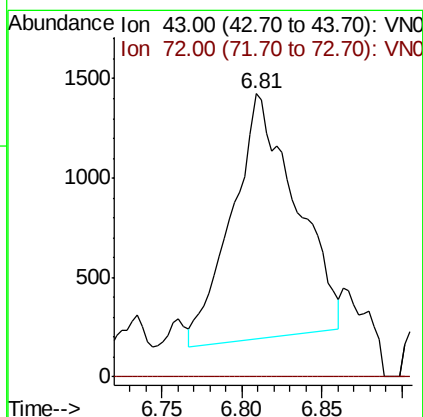
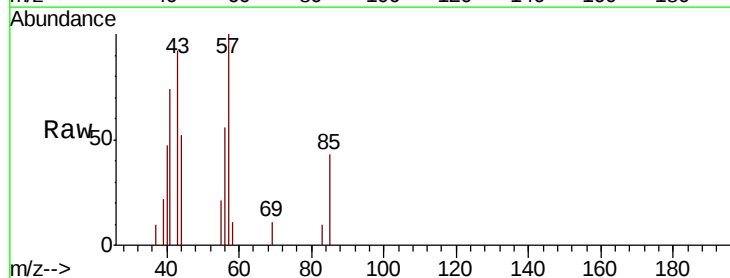
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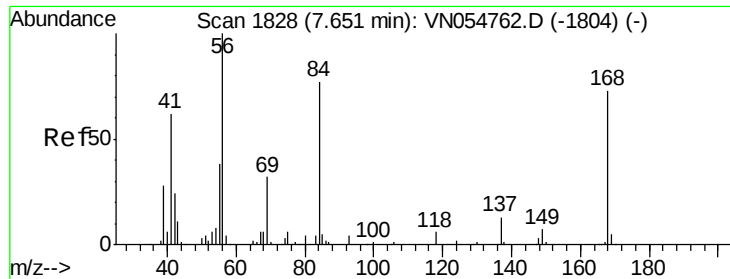
Tot Ion: 43 Resp: 58669
 Ion Ratio Lower Upper
 43 100
 86 1.5 9.1 13.7#



#25
 2-Butanone
 Concen: 1.341 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.04 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

Tgt Ion: 43 Resp: 3382
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.0 34.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

Instrument :
MSVOA_N
ClientSampled :

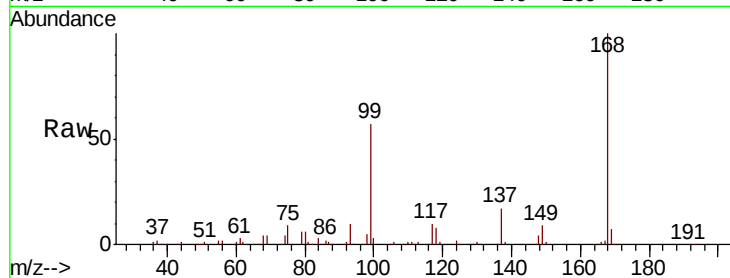
Tot Ion: 56 Resp: 11067

Ion Ratio Lower Upper

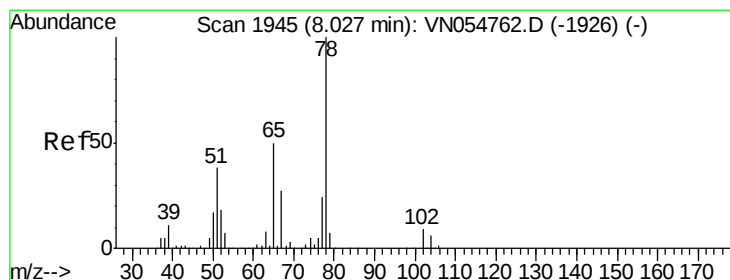
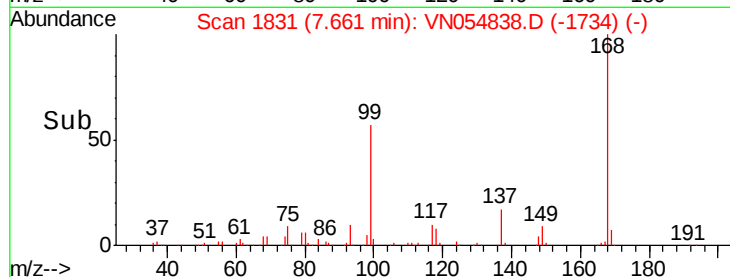
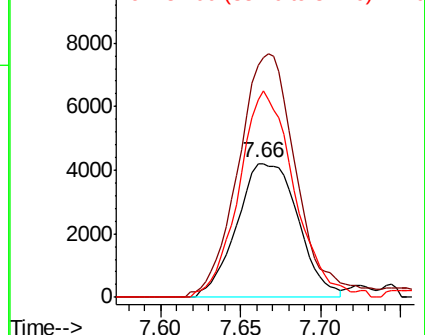
56 100

69 169.5 27.8 41.6#

84 147.6 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: 49.308 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054838.D

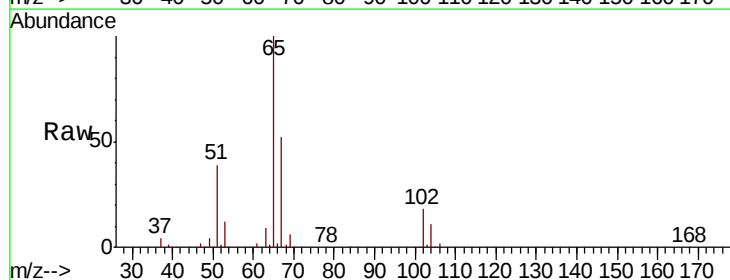
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Tgt Ion: 65 Resp: 352877

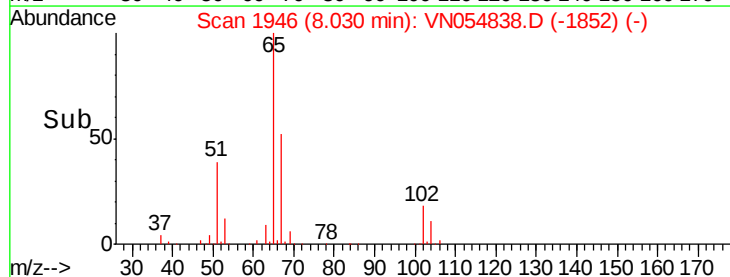
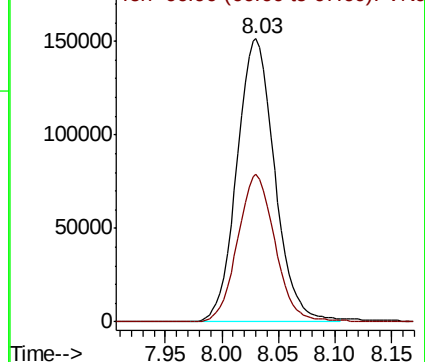
Ion Ratio Lower Upper

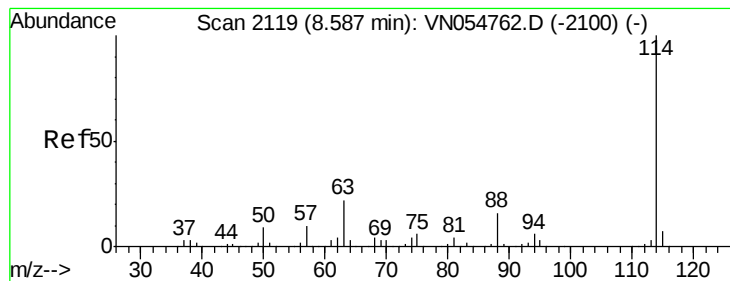
65 100

67 51.7 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: VN054838.D

Acq: 31 Mar 2019 7:56

Instrument :

MSVOA_N

ClientSampled :

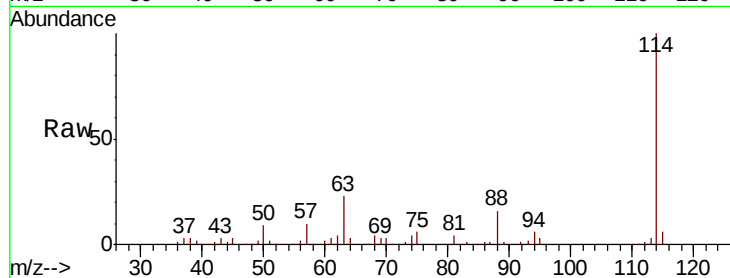
Tot Ion:114 Resp: 866357

Ion Ratio Lower Upper

114 100

63 22.8 0.0 35.2

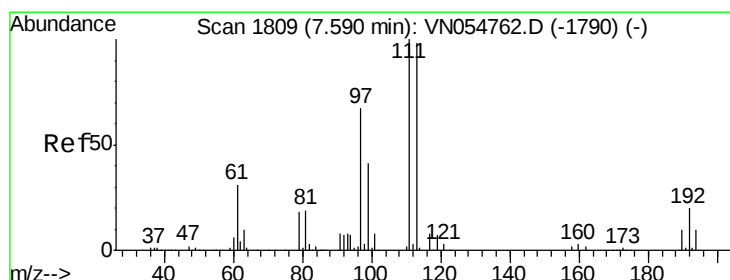
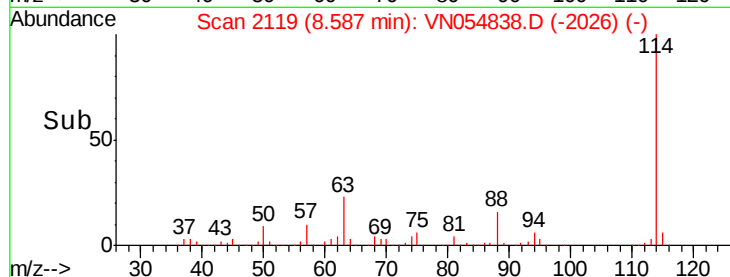
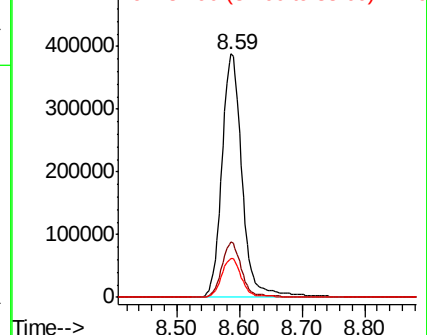
88 15.9 0.0 30.2



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: 47.502 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

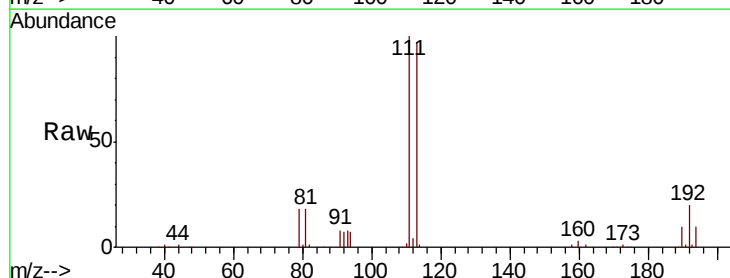
Tgt Ion:113 Resp: 274370

Ion Ratio Lower Upper

113 100

111 104.9 82.2 123.4

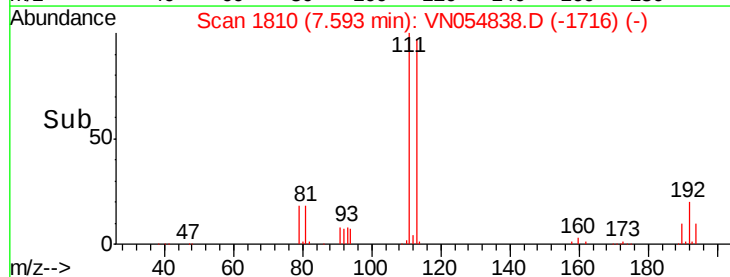
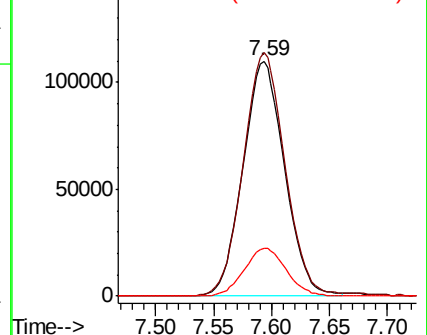
192 20.8 19.2 28.8

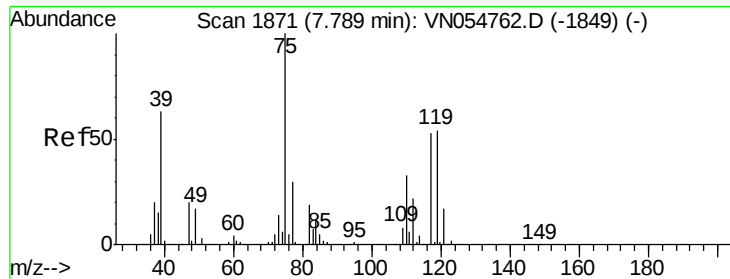


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

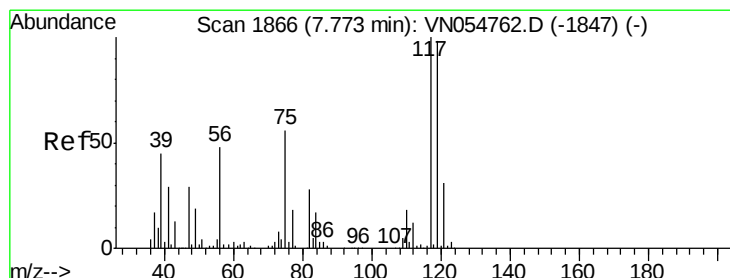
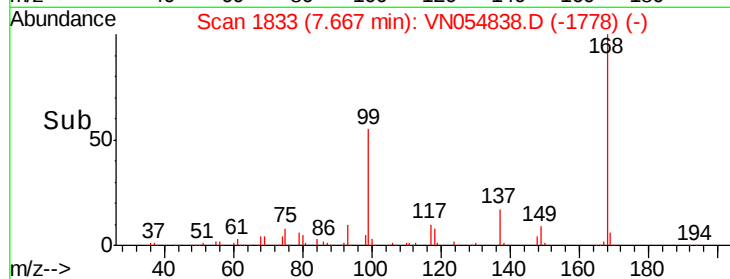
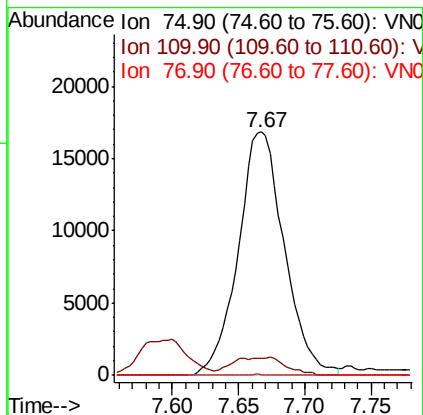
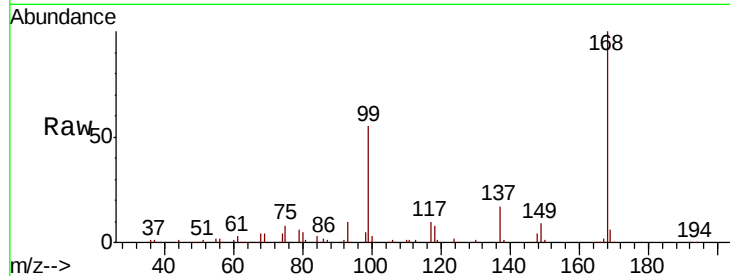




#36
 1,1-Dichloropropene
 Concen: 5.055 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

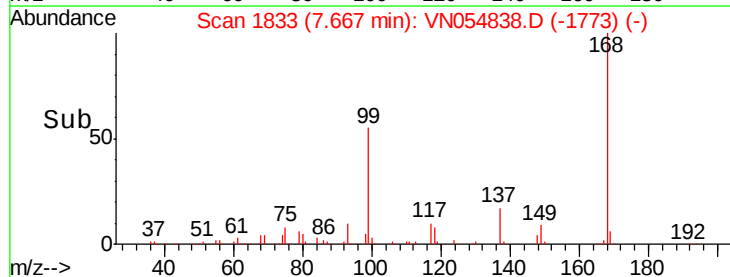
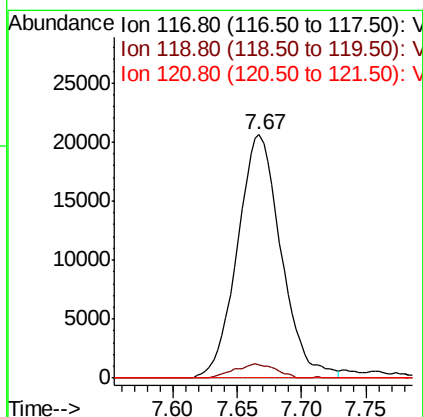
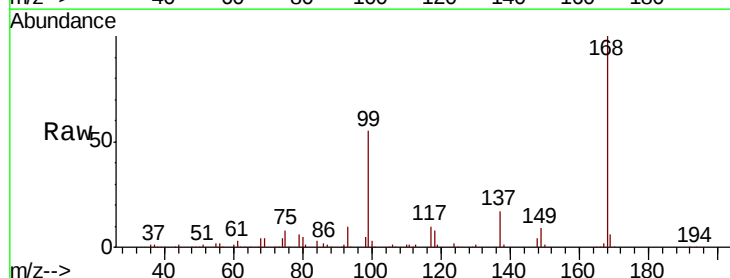
Instrument :
 MSVOA_N
 ClientSampleId :

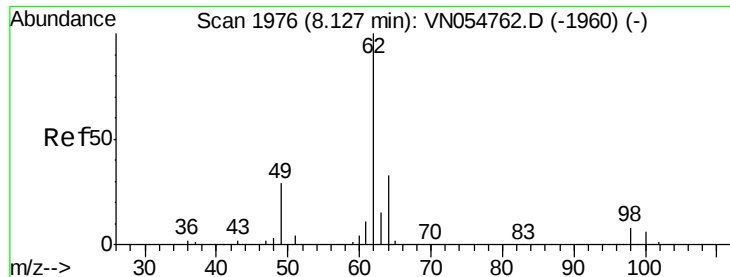
Tot Ion	75	Resp	40808
Ion Ratio	100	Lower	Upper
75	100		
110	2.0	19.1	57.5#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.215 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

Tgt Ion	117	Resp	48728
Ion Ratio	100	Lower	Upper
117	100		
119	5.6	76.3	114.5#
121	0.0	24.6	36.8#

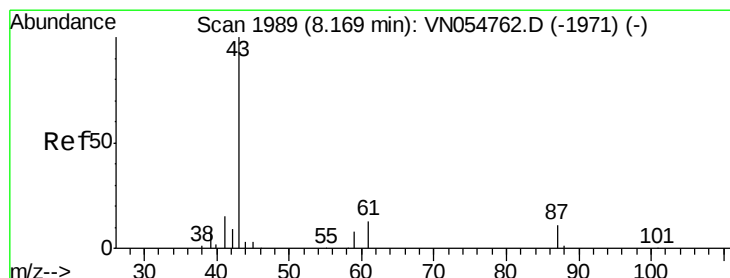
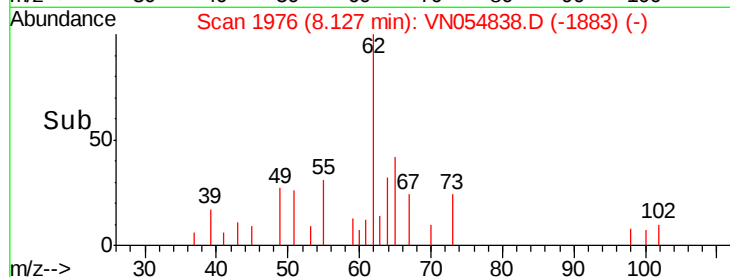
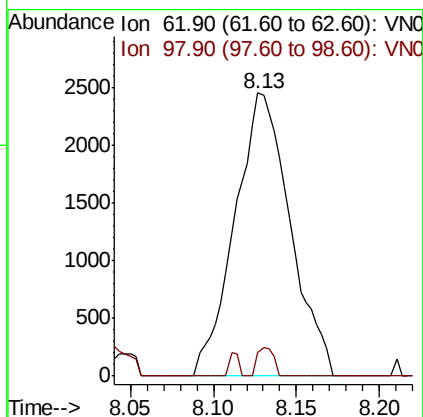
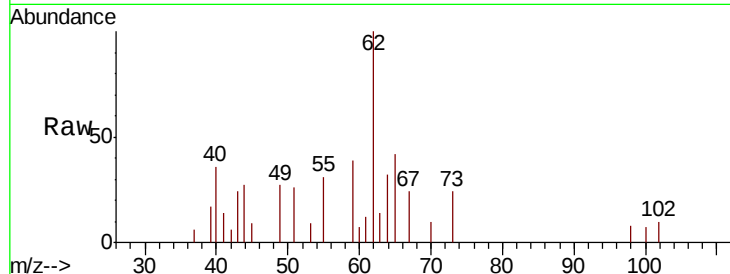




#42
 1,2-Dichloroethane
 Concen: 0.689 ug/l
 RT: 8.13 min Scan# 1976
 Delta R.T. -0.00 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

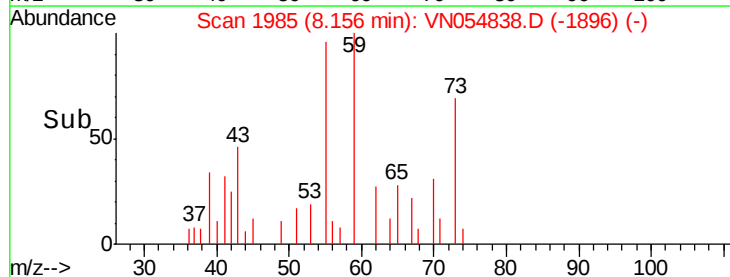
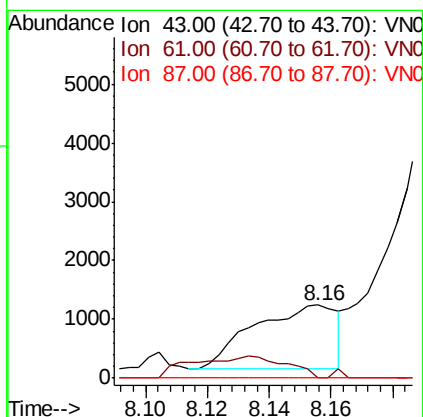
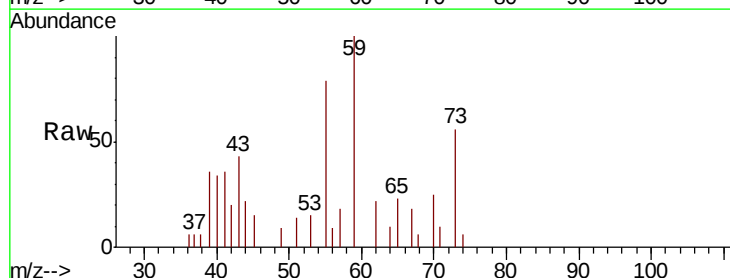
Instrument :
 MSVOA_N
 ClientSampled :

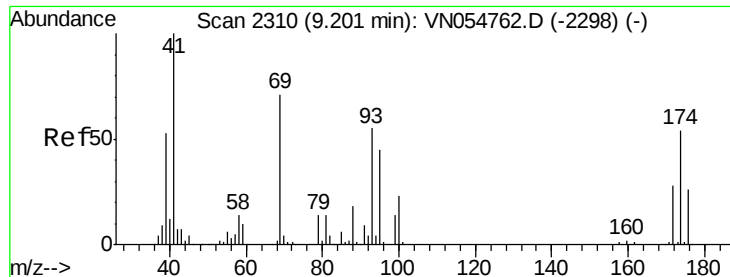
Tot Ion: 62 Resp: 5682
 Ion Ratio Lower Upper
 62 100
 98 2.9 0.0 18.4



#43
 Isopropyl Acetate
 Concen: 0.211 ug/l
 RT: 8.16 min Scan# 1985
 Delta R.T. -0.01 min
 Lab File: VN054838.D
 Acq: 31 Mar 2019 7:56

Tgt Ion: 43 Resp: 2026
 Ion Ratio Lower Upper
 43 100
 61 0.0 15.8 23.8#
 87 0.0 12.0 18.0#

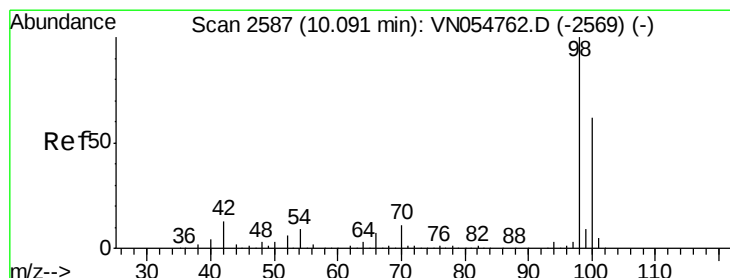
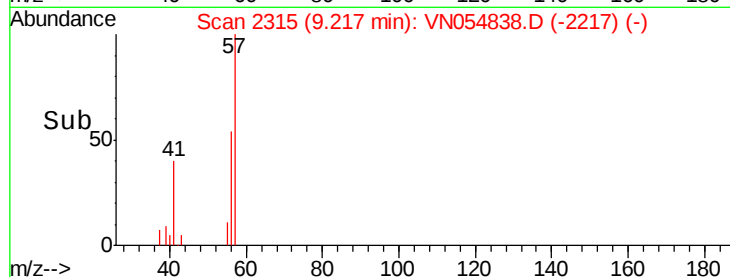
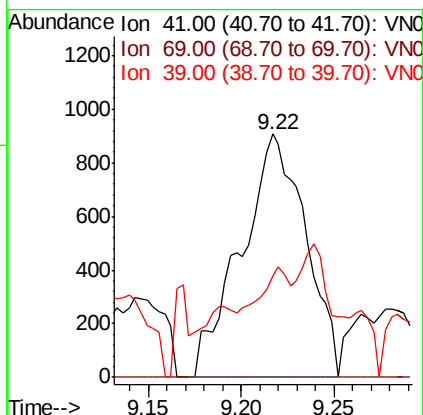
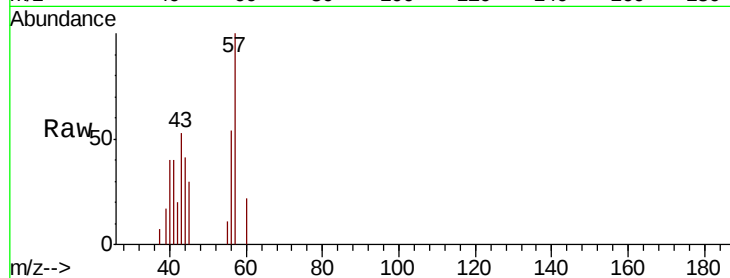




#48
Methyl methacrylate
Concen: 0.421 ug/l
RT: 9.22 min Scan# 2315
Delta R.T. 0.02 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

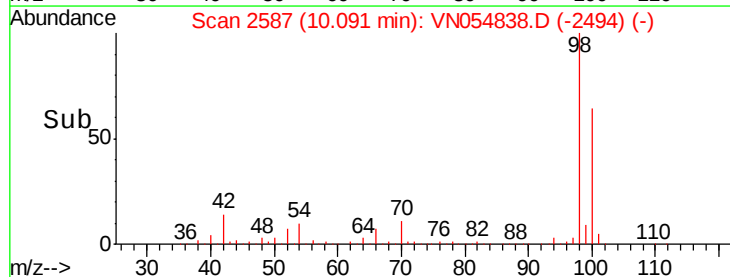
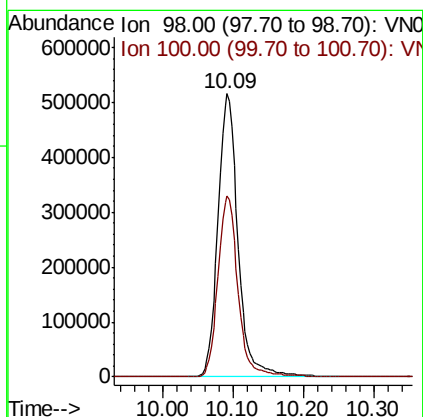
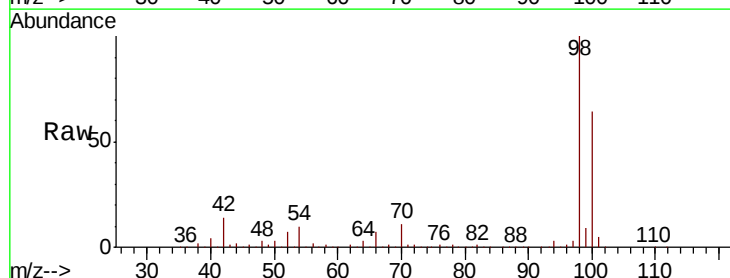
Instrument :
MSVOA_N
ClientSampled :

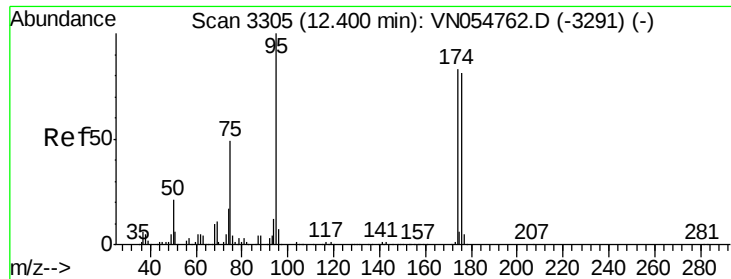
Tot Ion: 41 Resp: 2197
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 12.2 47.5 71.3#



#50
Toluene-d8
Concen: 47.676 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

Tgt Ion: 98 Resp: 1023778
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8

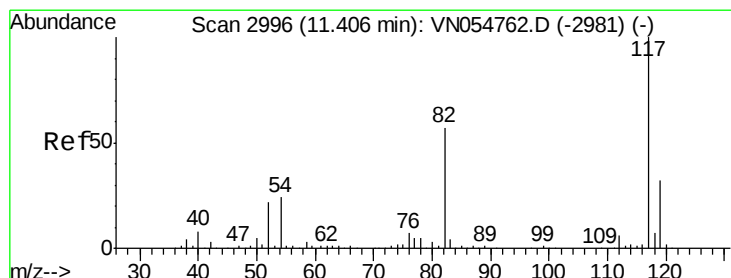
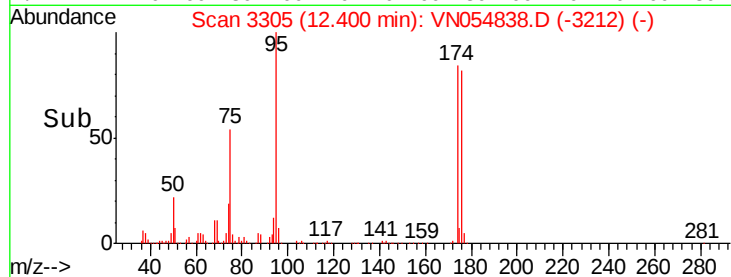
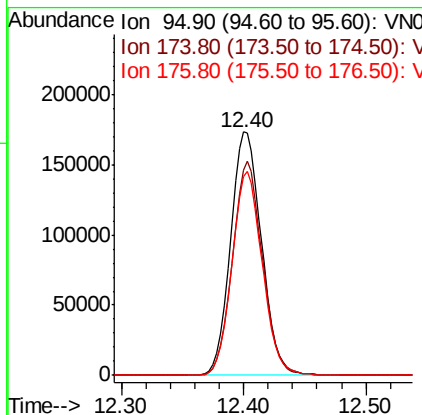
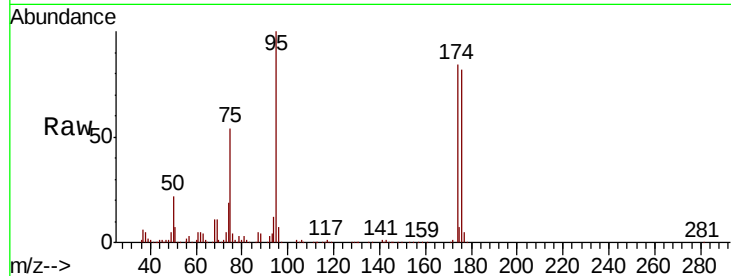




#62
4-Bromofluorobenzene
Concen: 42.826 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

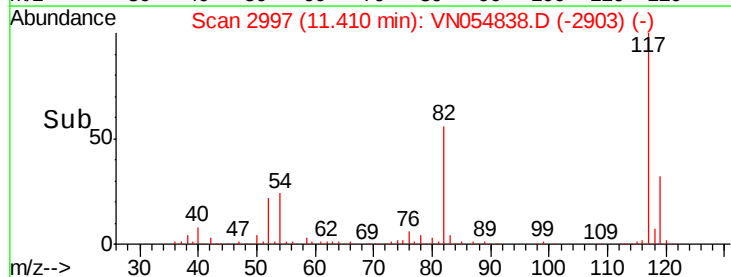
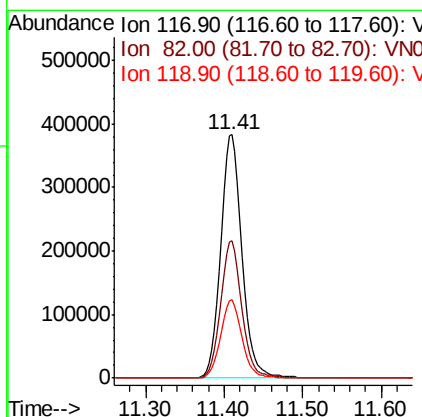
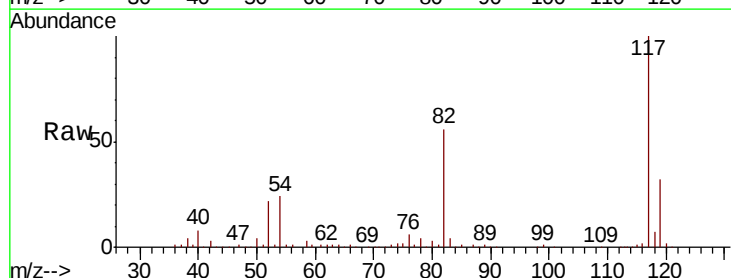
Instrument :
MSVOA_N
ClientSampleId :

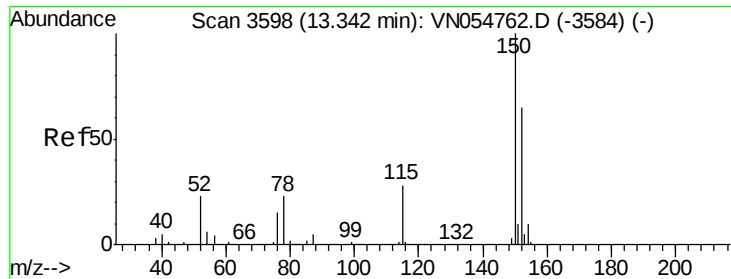
Tot Ion: 95 Resp: 305845
Ion Ratio Lower Upper
95 100
174 85.0 0.0 191.0
176 81.8 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054838.D
Acq: 31 Mar 2019 7:56

Tgt Ion: 117 Resp: 710709
Ion Ratio Lower Upper
117 100
82 56.5 40.0 60.0
119 32.0 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: VN054838.D

Acq: 31 Mar 2019 7:56

Instrument :

MSVOA_N

ClientSampled :

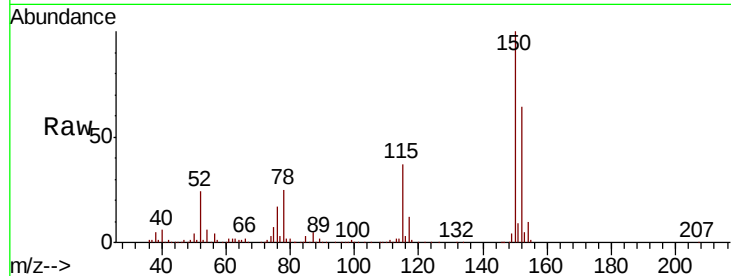
Tot Ion:152 Resp: 246863

Ion Ratio Lower Upper

152 100

115 58.5 27.2 81.6

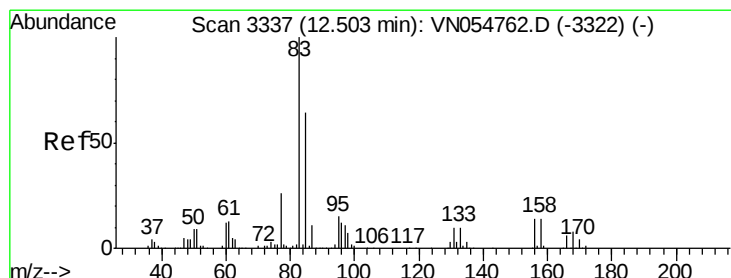
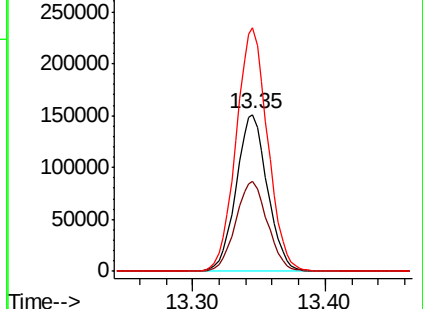
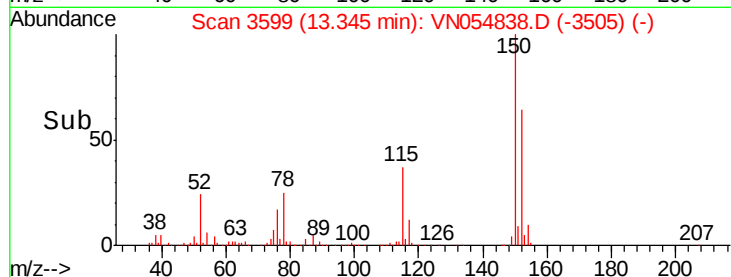
150 157.0 0.0 349.2



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.55 min Scan# 3351

Delta R.T. 0.05 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

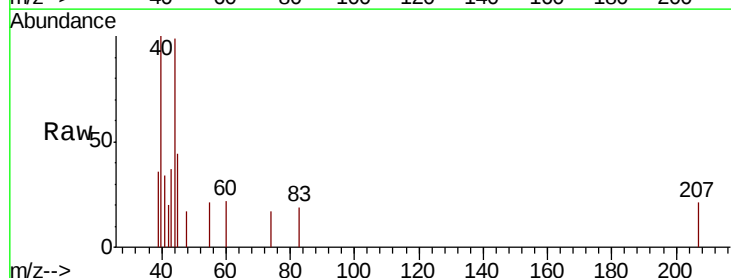
Tgt Ion: 83 Resp: 65

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

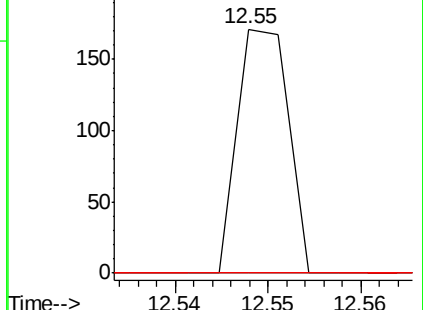
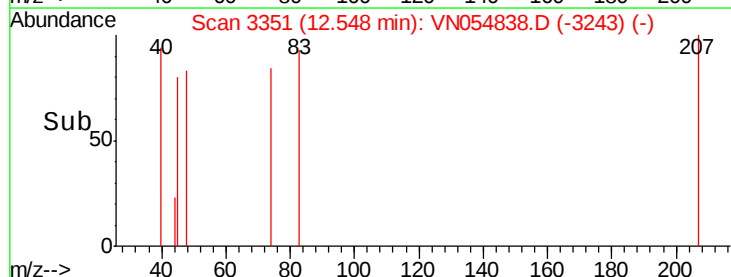
85 0.0 32.2 96.6#

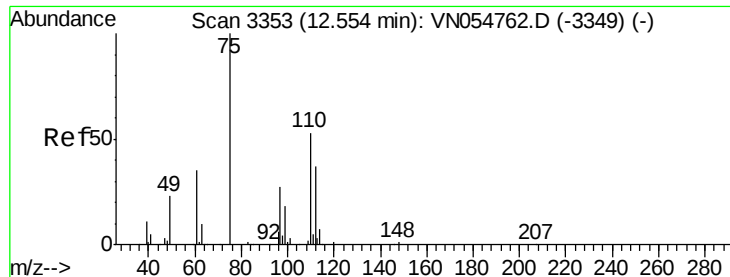


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 37.092 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

Instrument :

MSVOA_N

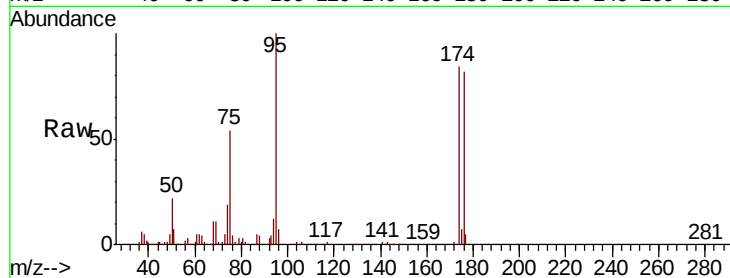
ClientSampled :

Tot Ion: 75 Resp: 159071

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

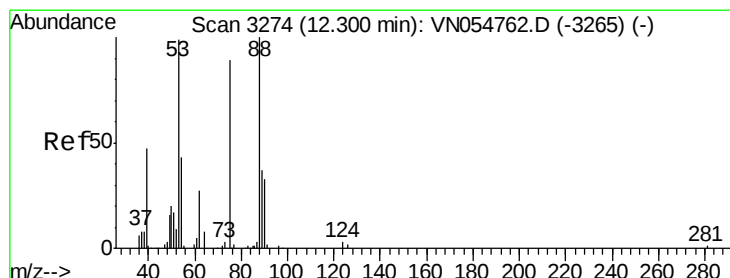
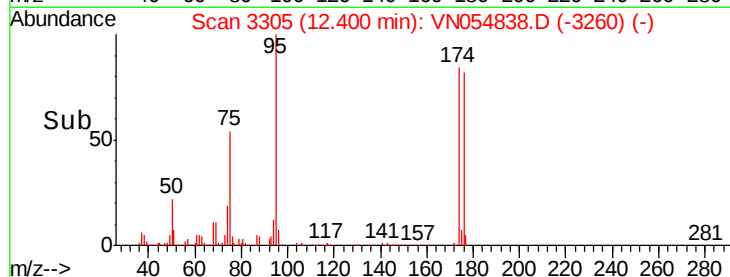
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 144.277 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

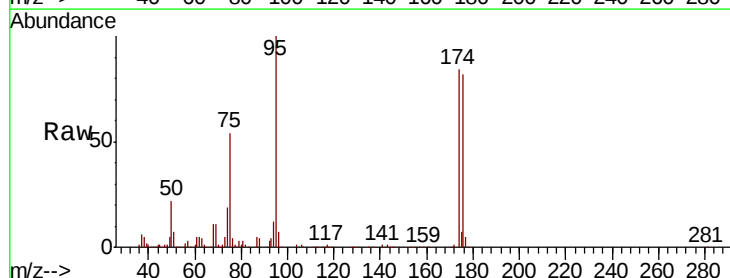
Tgt Ion: 75 Resp: 159071

Ion Ratio Lower Upper

75 100

53 0.2 76.2 114.2#

89 0.0 39.2 58.8#



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

12.40

120000

100000

80000

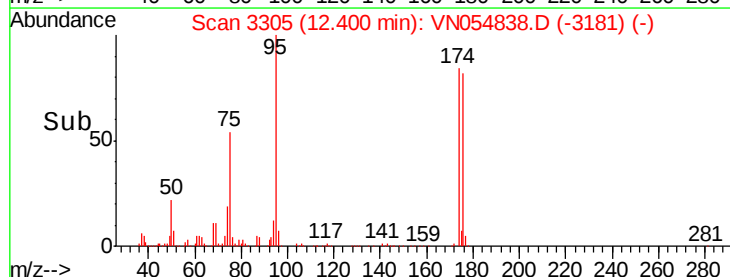
60000

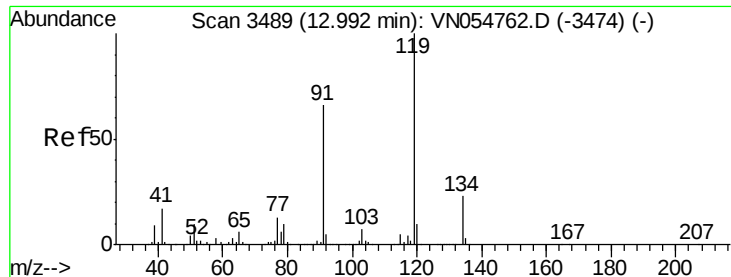
40000

20000

0

Time-->





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

Instrument :

MSVOA_N

ClientSampled :

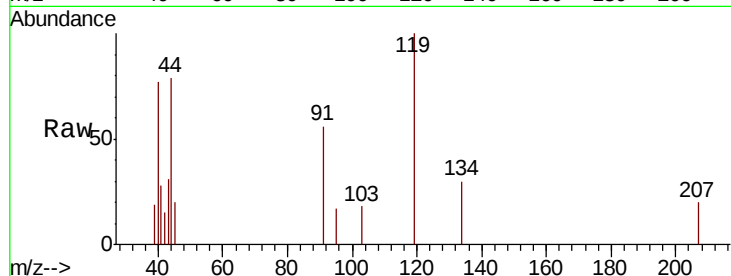
Tot Ion:119 Resp: 1511

Ion Ratio Lower Upper

119 100

91 32.2 30.9 92.8

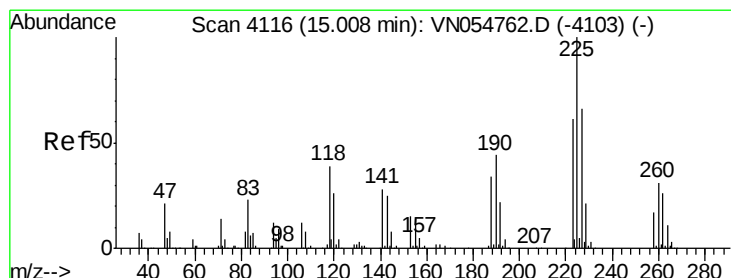
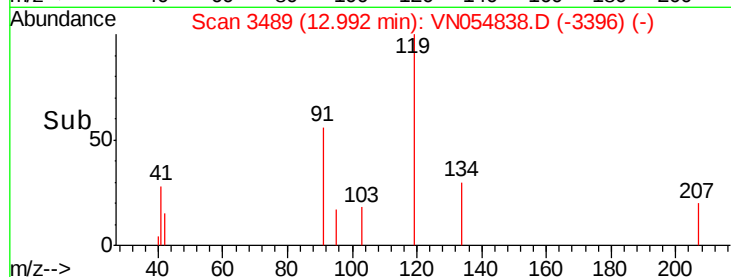
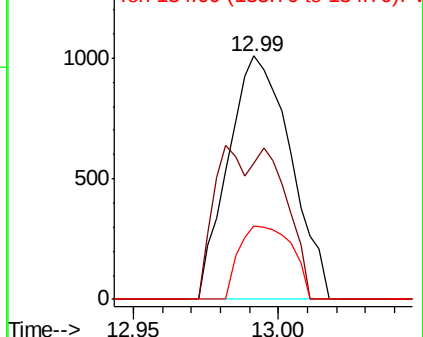
134 25.3 13.2 39.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054838.D

Acq: 31 Mar 2019 7:56

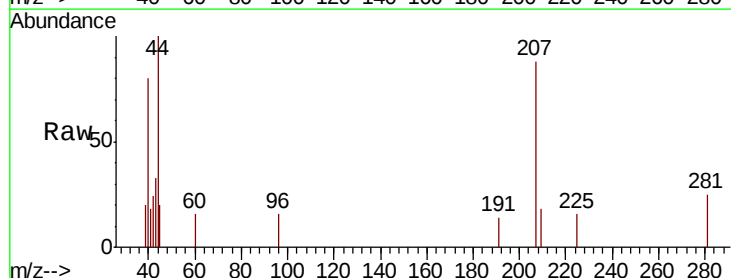
Tgt Ion:225 Resp: 63

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 0.0 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

