

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041319\
 Data File : VN055017.D
 Acq On : 12 Apr 2019 23:18
 Operator : JC/SP
 Sample : K2377-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

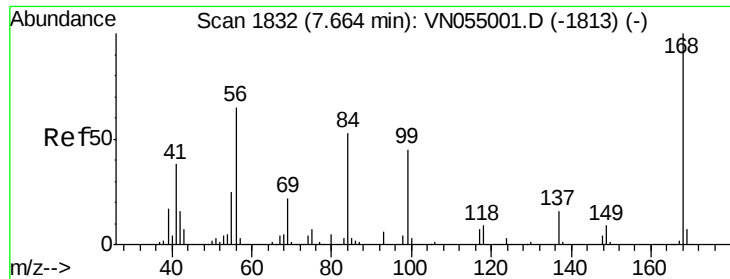
Quant Time: Apr 15 01:03:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 13 03:34:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	536829	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	877359	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	730247	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	239239	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	343729	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	7.59	113	278361	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
50) Toluene-d8	10.09	98	1039384	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	12.40	95	303979	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	260	0.520	ug/l	97
16) Acetone	3.82	43	9989	5.397	ug/l	95
18) Methyl Acetate	4.34	43	5075	0.885	ug/l #	80
20) Methylene Chloride	4.54	84	33273	4.151	ug/l	95
25) 2-Butanone	6.86	43	965	0.339	ug/l #	53
29) Tetrahydrofuran	7.23	42	715	0.383	ug/l #	81
31) Cyclohexane	7.67	56	11630	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	40028	4.936	ug/l #	50
38) Carbon Tetrachloride	7.67	117	50727	6.646	ug/l #	16
43) Isopropyl Acetate	8.17	43	15534	1.492	ug/l	98
48) Methyl methacrylate	9.18	41	8757	1.633	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	4469	0.733	ug/l	94
54) cis-1,3-Dichloropropene	9.91	75	49259	5.478	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	10909	1.171	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.90	63	61	18.221	ug/l #	50
59) 2-Hexanone	10.77	43	167552	43.995	ug/l #	55
71) Bromoform	12.38	173	95	2.610	ug/l #	29
74) N-amyl acetate	11.88	43	18588	3.032	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	154266	35.049	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5954	0.360	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	154266	144.665	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	3491	0.220	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	286	3.599	ug/l	70
94) Hexachlorobutadiene	15.01	225	60	Below Cal	#	18
95) Naphthalene	15.13	128	2502	4.924	ug/l #	81

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

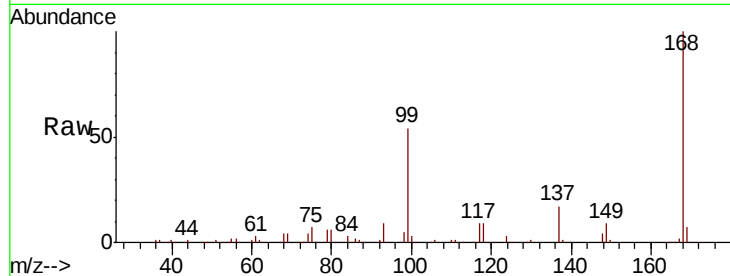
ClientSampleId :

Tot Ion:168 Resp: 536829

Ion Ratio Lower Upper

168 100

99 54.4 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055017.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN055017.D (-1739) (-)

7.67

250000

200000

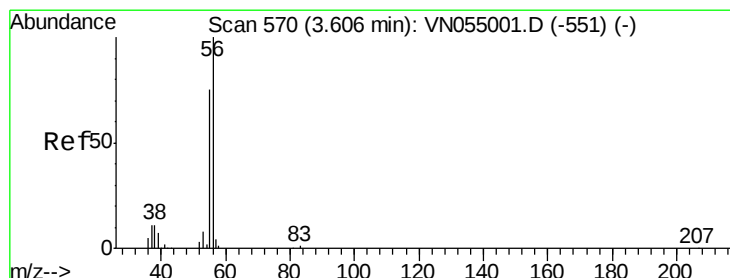
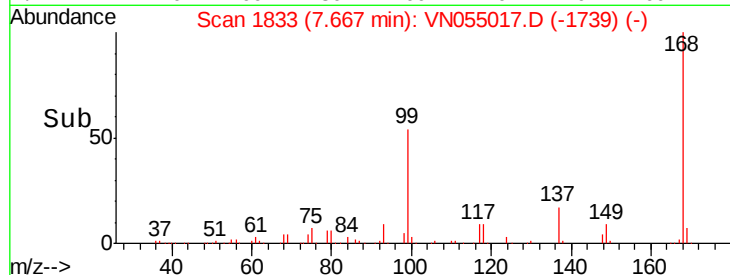
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.520 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN055017.D

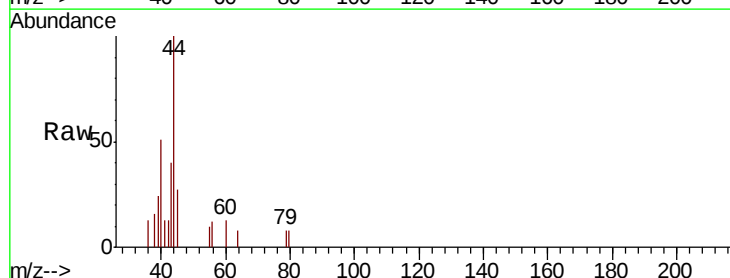
Acq: 12 Apr 2019 23:18

Tgt Ion: 56 Resp: 260

Ion Ratio Lower Upper

56 100

55 76.9 59.5 89.3



Abundance Ion 56.00 (55.70 to 56.70): VN055017.D (-477) (-)

Ion 55.00 (54.70 to 55.70): VN055017.D (-477) (-)

3.61

300

250

200

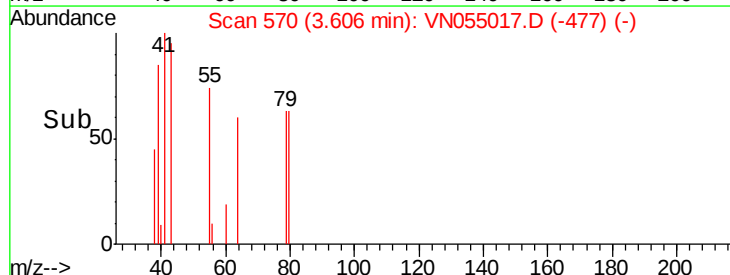
150

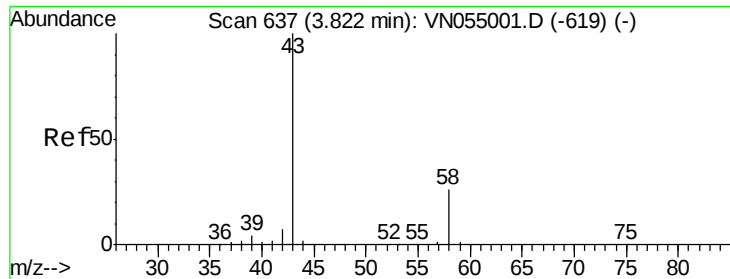
100

50

0

Time-->





#16

Acetone

Concen: 5.397 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

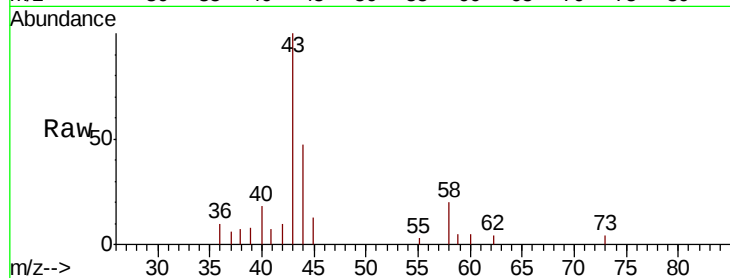
ClientSampled :

Tot Ion: 43 Resp: 9989

Ion Ratio Lower Upper

43 100

58 23.5 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

4000

3000

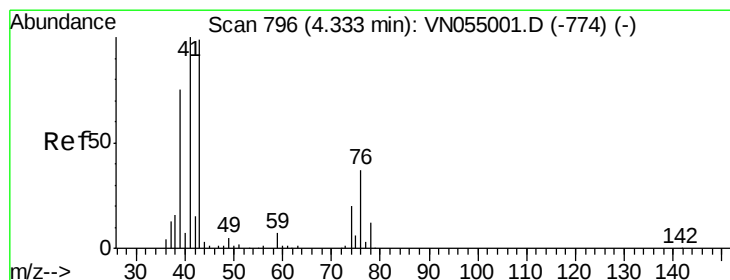
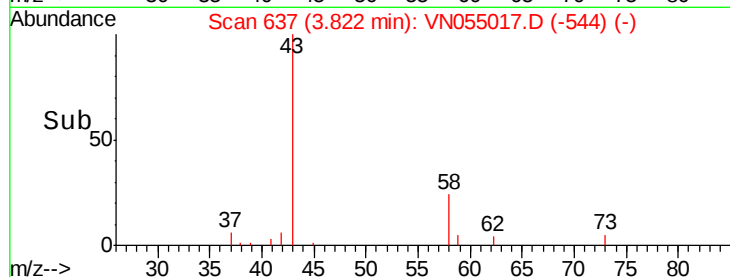
2000

1000

0

Time-->

3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.885 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.00 min

Lab File: VN055017.D

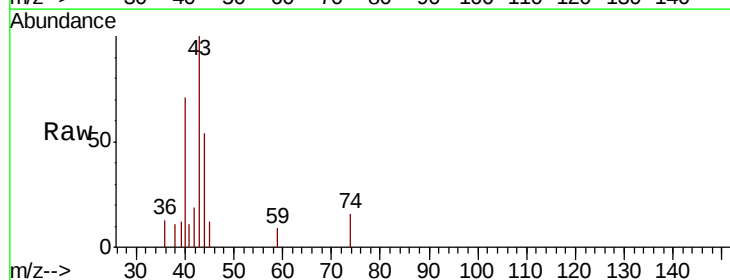
Acq: 12 Apr 2019 23:18

Tgt Ion: 43 Resp: 5075

Ion Ratio Lower Upper

43 100

74 11.0 16.1 24.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

2000

1500

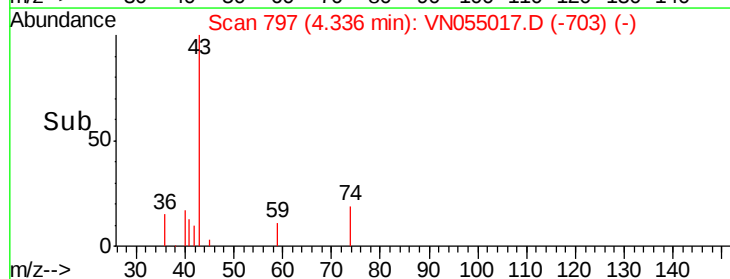
1000

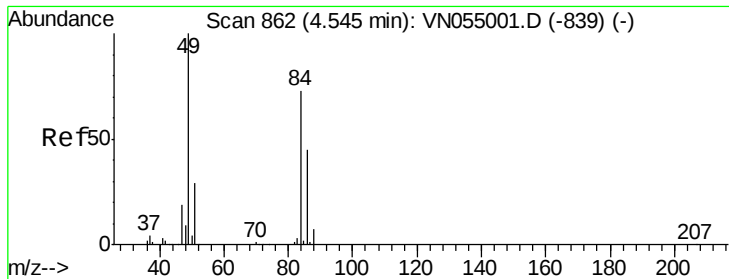
500

0

Time-->

4.25 4.30 4.35 4.40

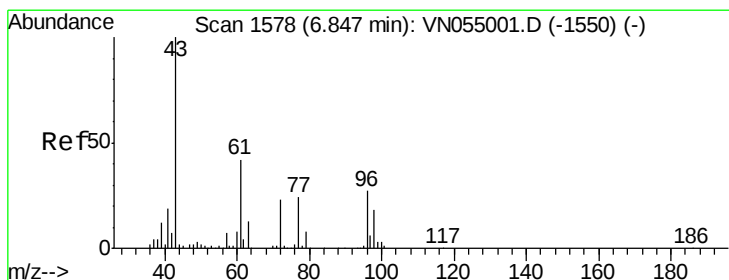
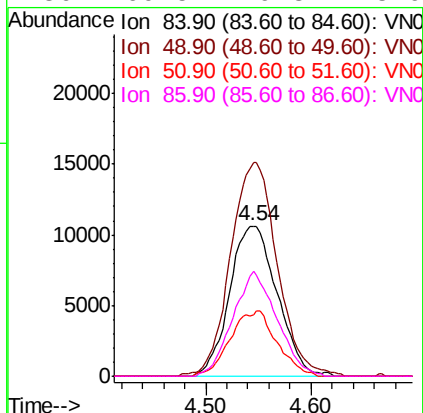
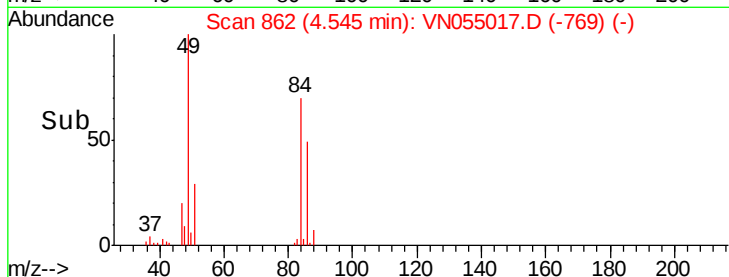
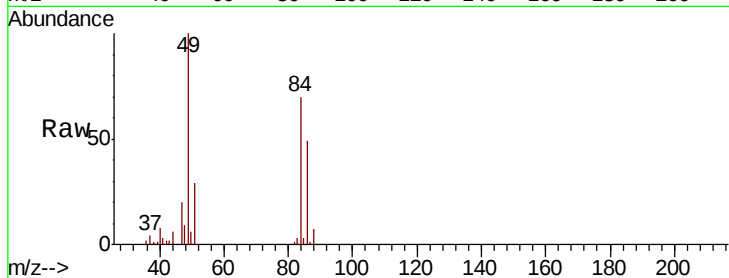




#20
Methvlene Chloride
Concen: 4.151 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

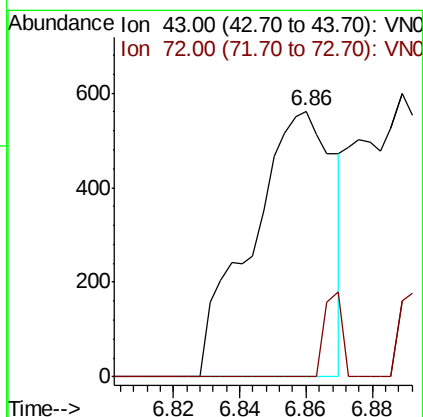
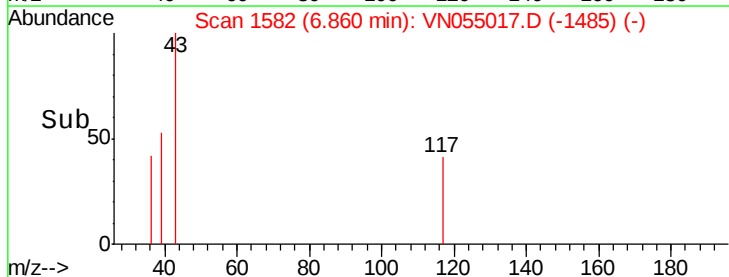
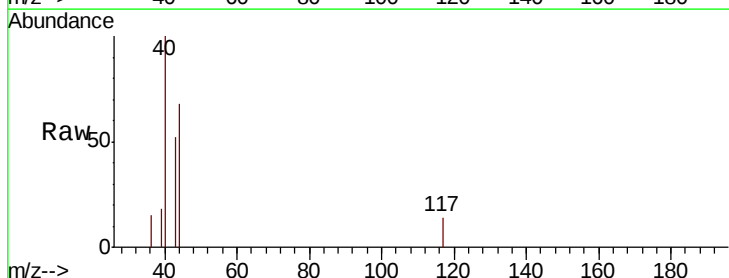
Instrument :
MSVOA_N
ClientSampleId :

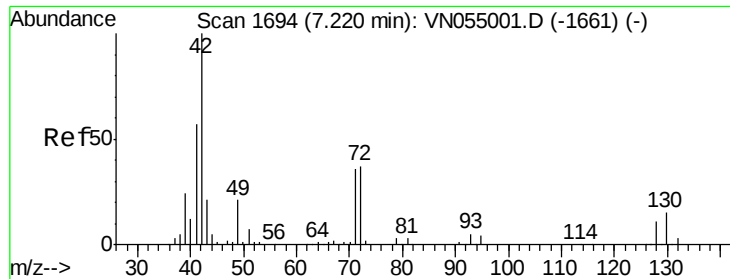
Tot Ion: 84 Resp: 33273
Ion Ratio Lower Upper
84 100
49 140.6 109.4 164.2
51 41.2 32.2 48.4
86 69.5 49.3 73.9



#25
2-Butanone
Concen: 0.339 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 43 Resp: 965
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1#

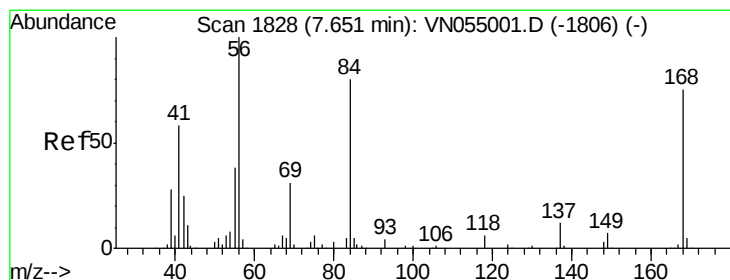
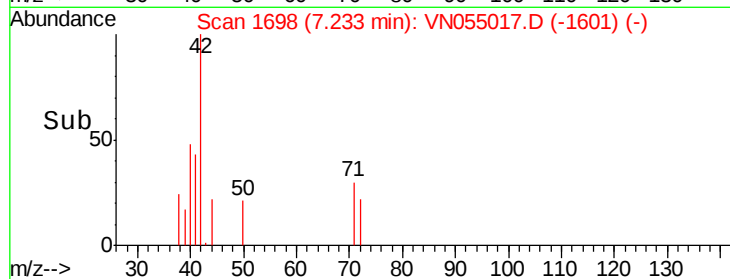
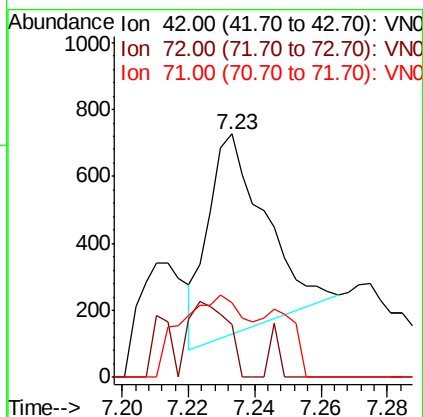
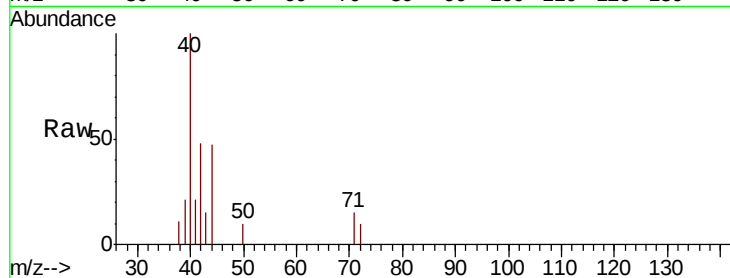




#29
Tetrahydrofuran
Concen: 0.383 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

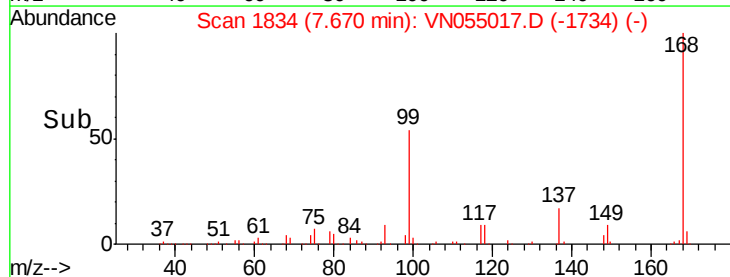
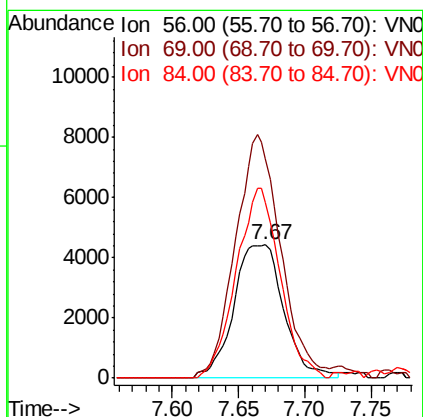
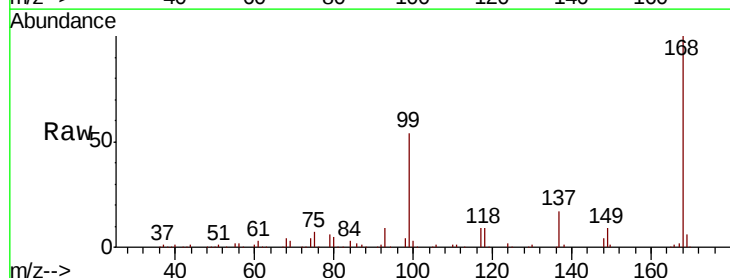
Instrument :
MSVOA_N
ClientSampled :

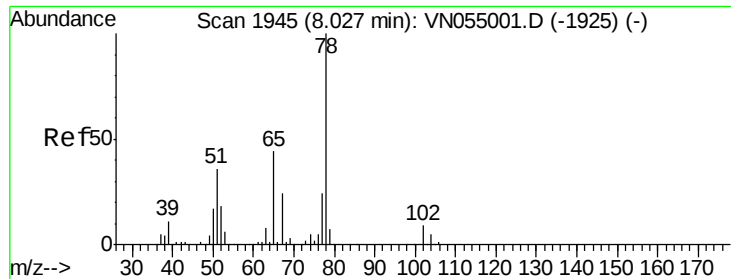
Tot Ion: 42 Resp: 715
Ion Ratio Lower Upper
42 100
72 25.9 29.4 44.0#
71 46.7 27.8 41.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 56 Resp: 11630
Ion Ratio Lower Upper
56 100
69 165.4 24.5 36.7#
84 132.5 62.9 94.3#

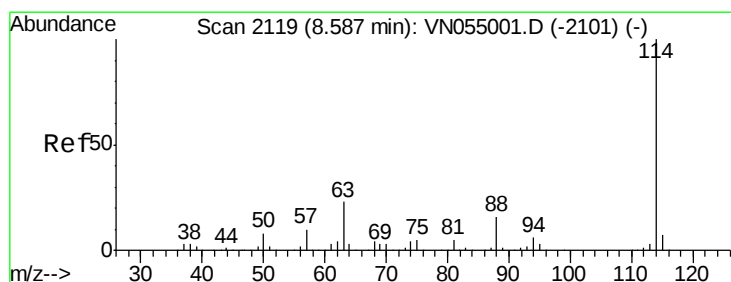
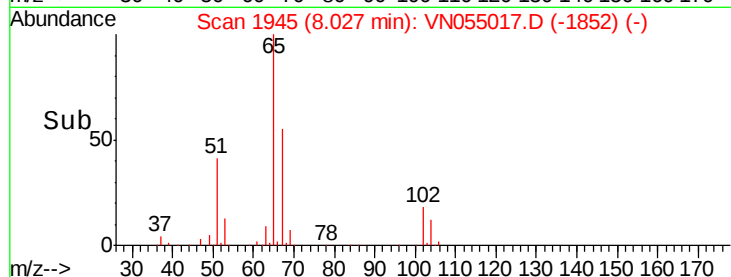
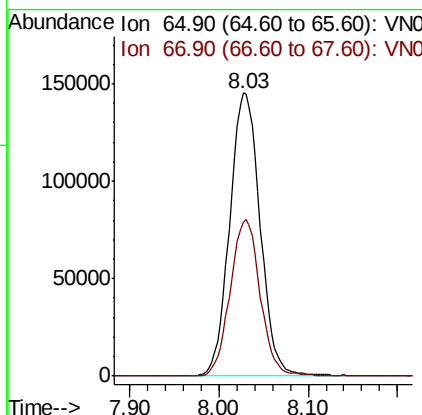
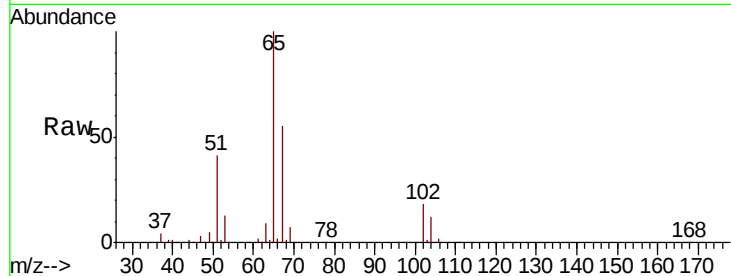




#33
 1,2-Dichloroethane-d4
 Concen: 51.022 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

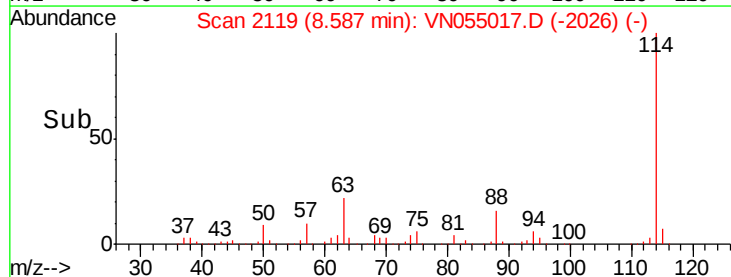
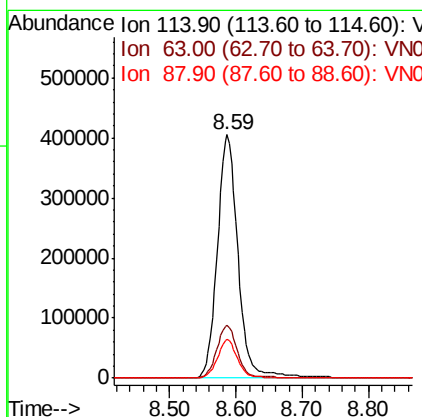
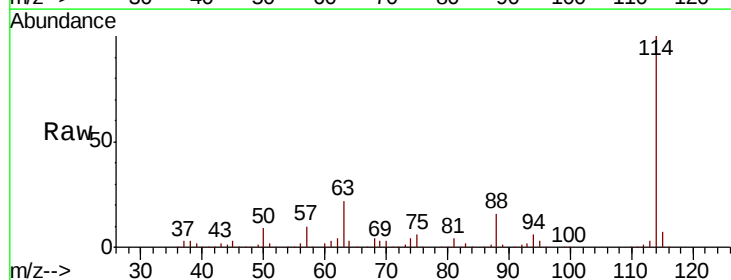
Instrument :
 MSVOA_N
 ClientSampleId :

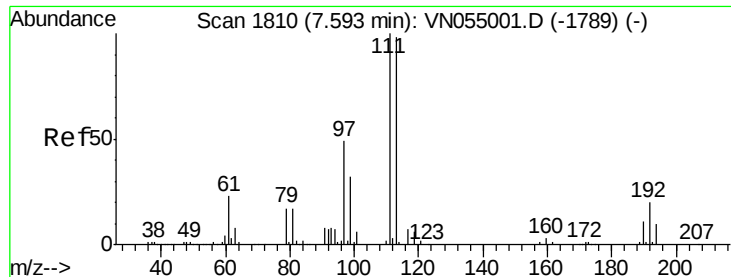
Tot Ion: 65 Resp: 343729
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

Tgt Ion: 114 Resp: 877359
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 45.2
 88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 49.770 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :
MSVOA_N
ClientSampleId :

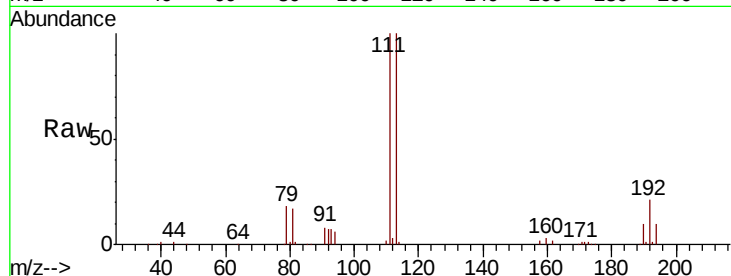
Tot Ion:113 Resp: 278361

Ion Ratio Lower Upper

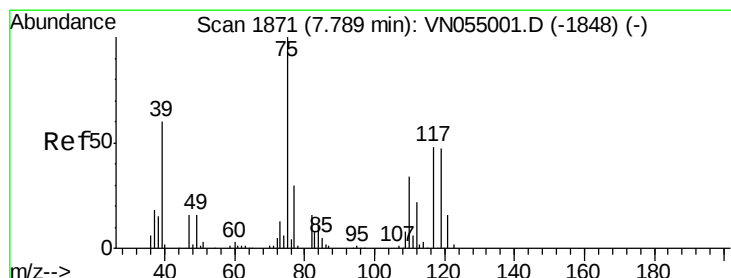
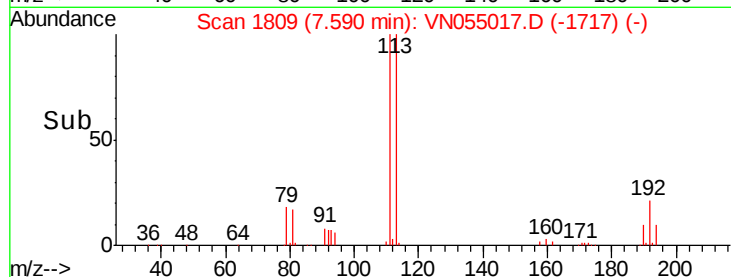
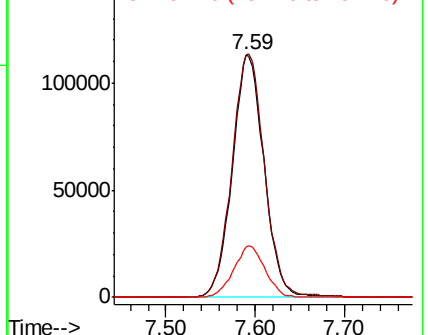
113 100

111 102.1 82.1 123.1

192 21.0 16.5 24.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.936 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

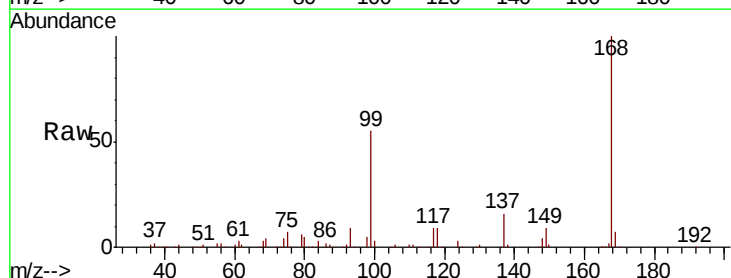
Tgt Ion: 75 Resp: 40028

Ion Ratio Lower Upper

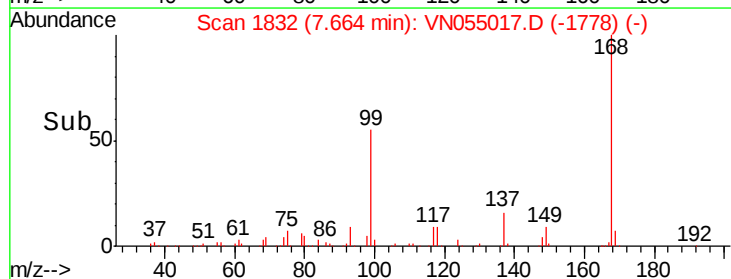
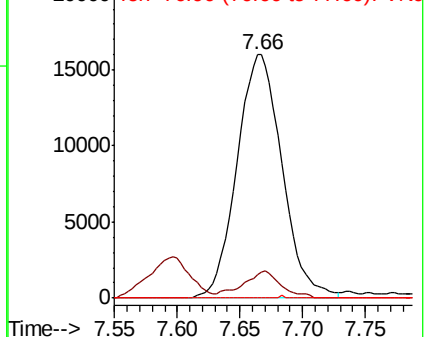
75 100

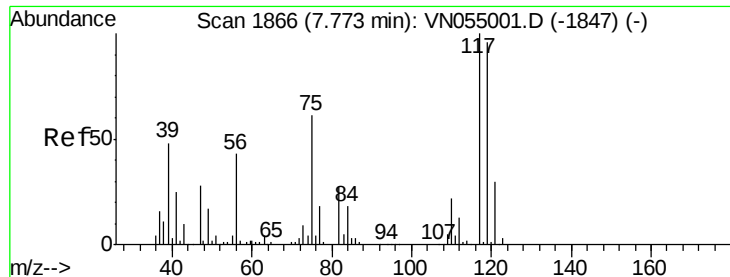
110 9.4 17.5 52.5#

77 0.1 24.9 37.3#



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

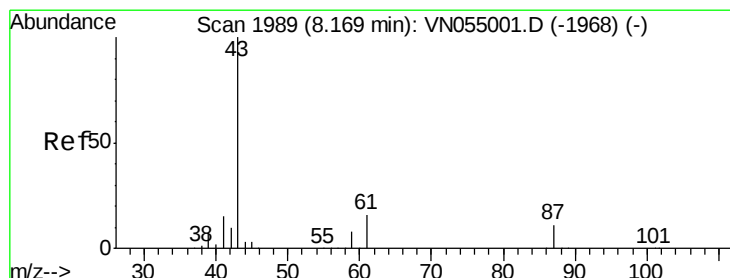
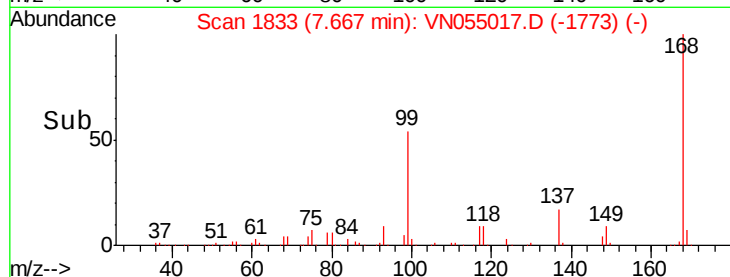
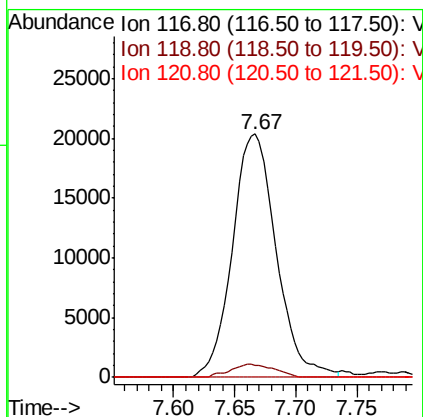
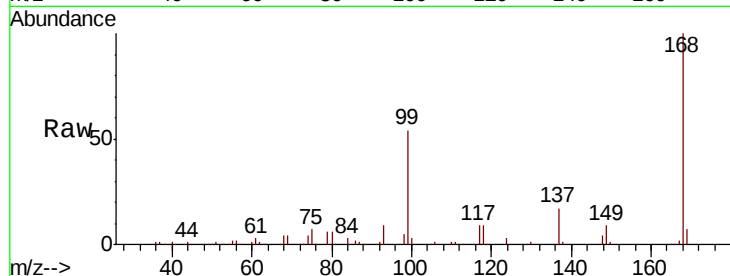




#38
Carbon Tetrachloride
Concen: 6.646 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

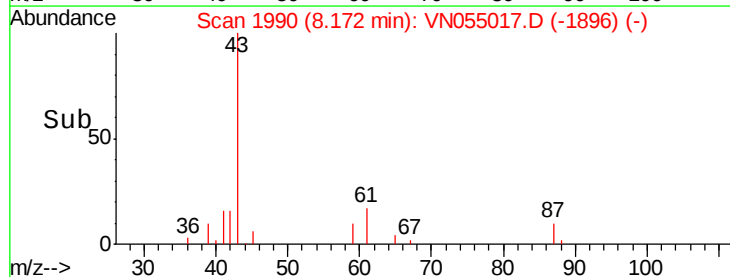
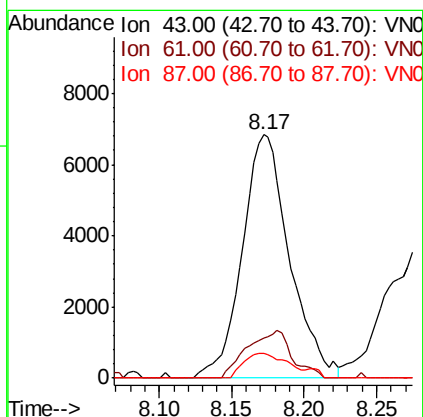
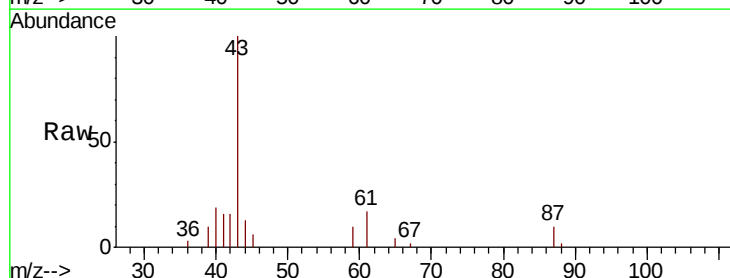
Instrument :
MSVOA_N
ClientSampled :

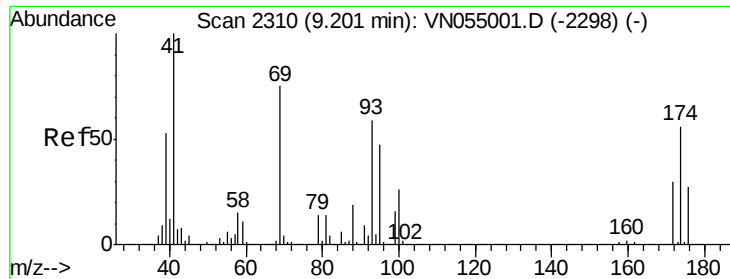
Tot Ion:117 Resp: 50727
Ion Ratio Lower Upper
117 100
119 5.1 76.3 114.5#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 1.492 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 43 Resp: 15534
Ion Ratio Lower Upper
43 100
61 18.4 14.3 21.5
87 9.4 8.6 13.0

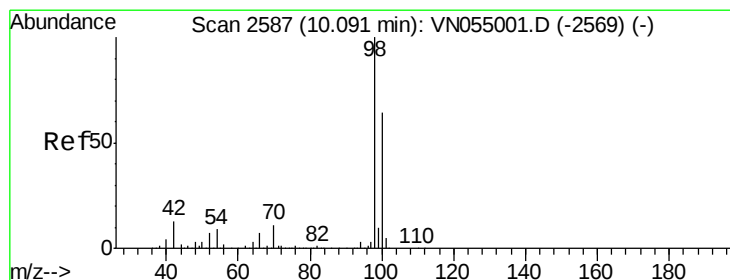
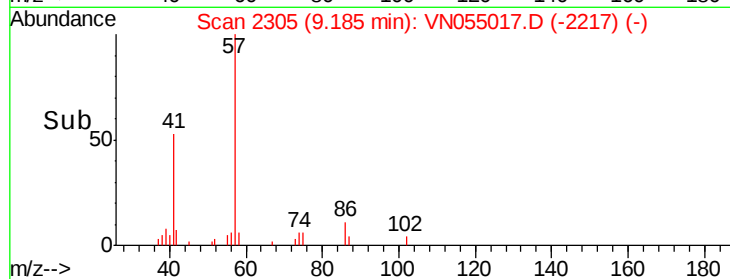
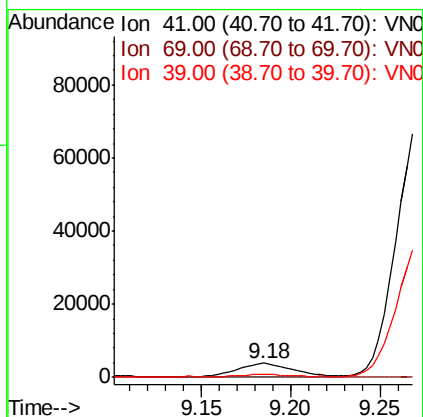
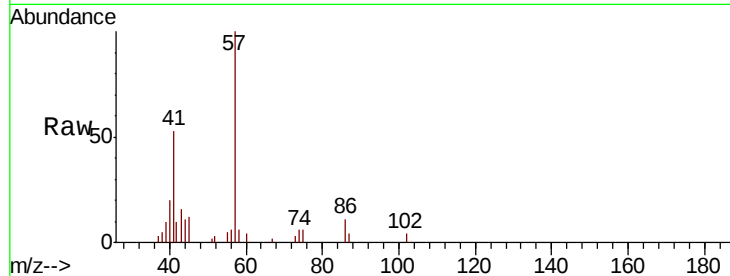




#48
Methyl methacrylate
Concen: 1.633 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

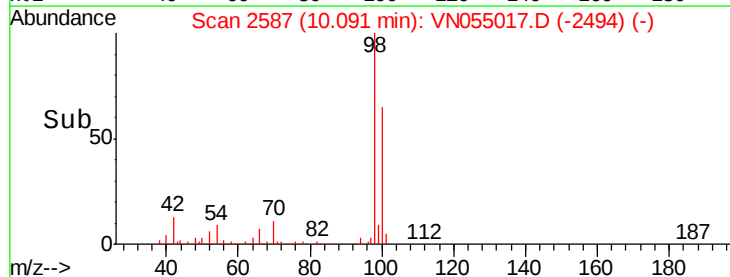
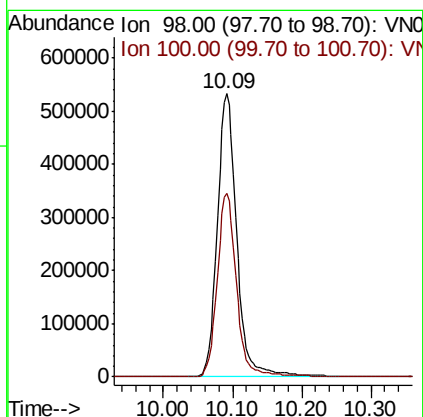
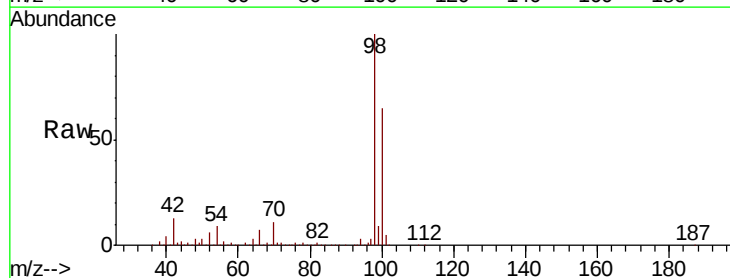
Instrument :
MSVOA_N
ClientSampled :

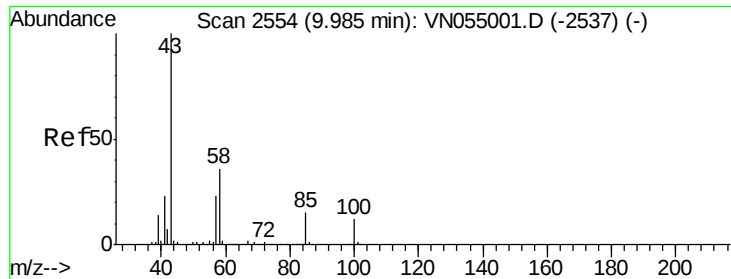
Tot Ion: 41 Resp: 8757
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#



#50
Toluene-d8
Concen: 50.598 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 98 Resp: 1039384
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7





#51

4-Methyl-2-Pentanone

Concen: 0.733 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

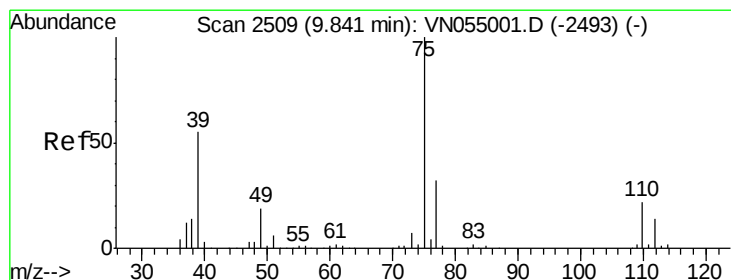
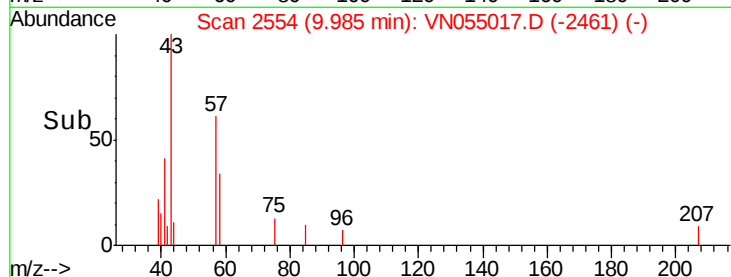
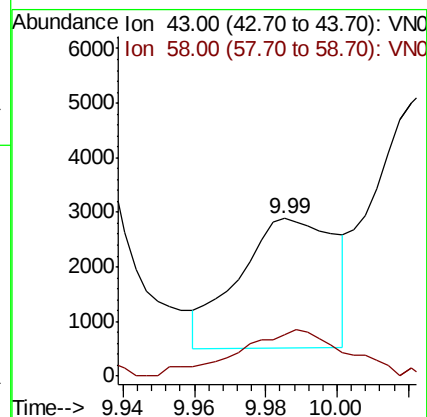
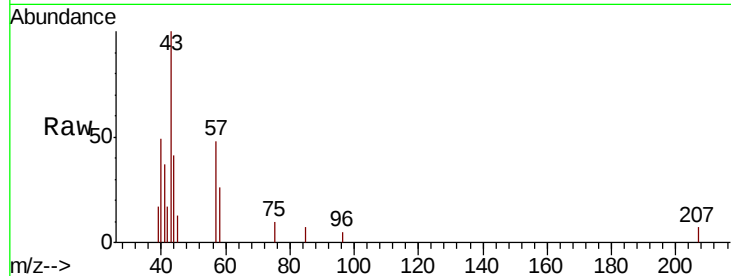
ClientSampled :

Tot Ion: 43 Resp: 4469

Ion Ratio Lower Upper

43 100

58 39.9 29.0 43.4



#54

cis-1,3-Dichloropropene

Concen: 5.478 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

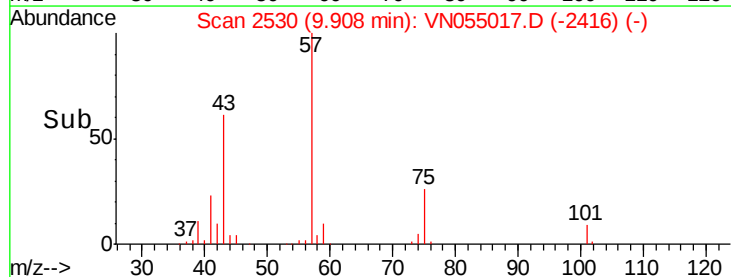
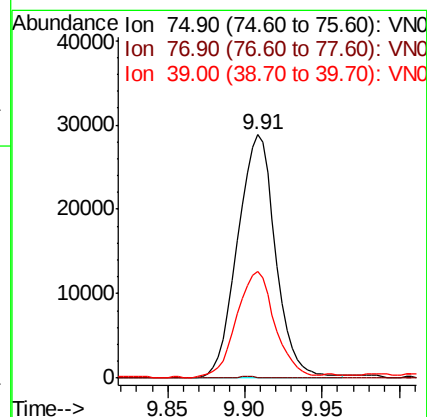
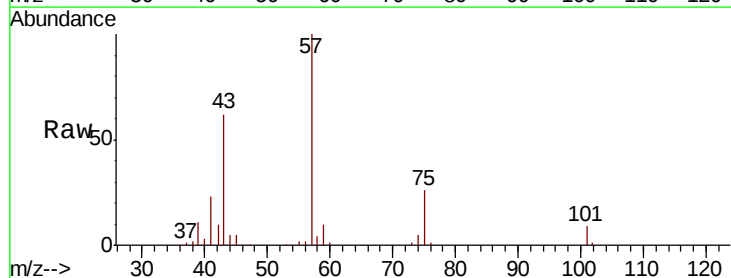
Tgt Ion: 75 Resp: 49259

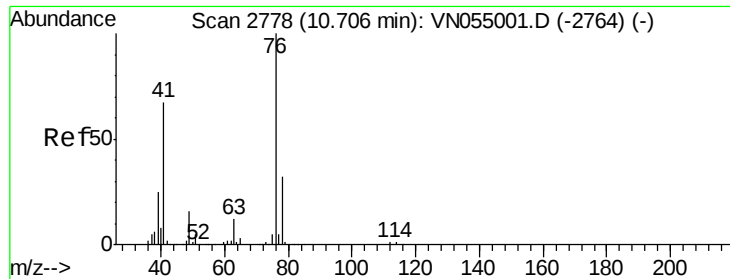
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 43.9 43.8 65.8

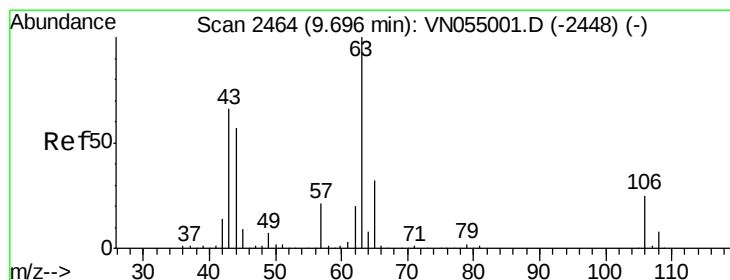
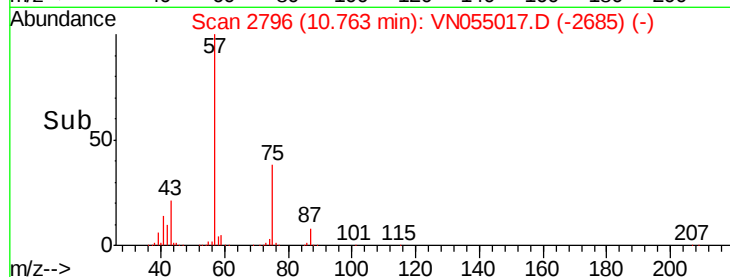
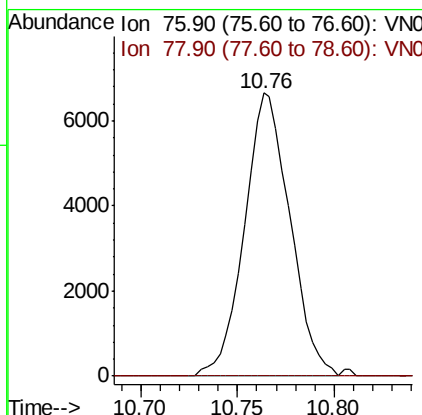
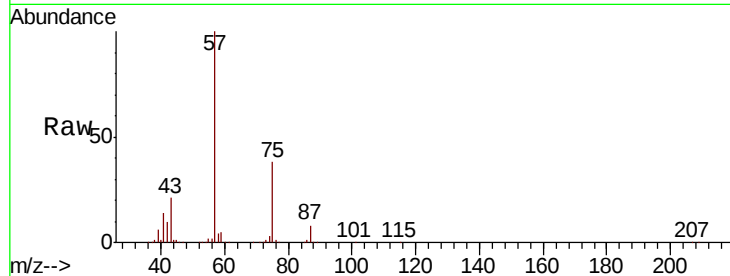




#57
 1,3-Dichloropropane
 Concen: 1.171 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

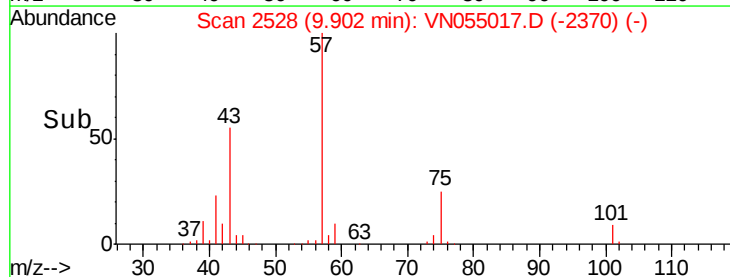
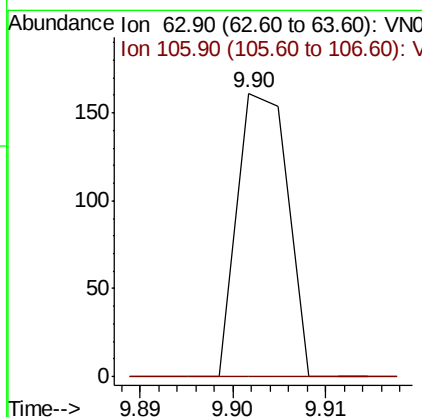
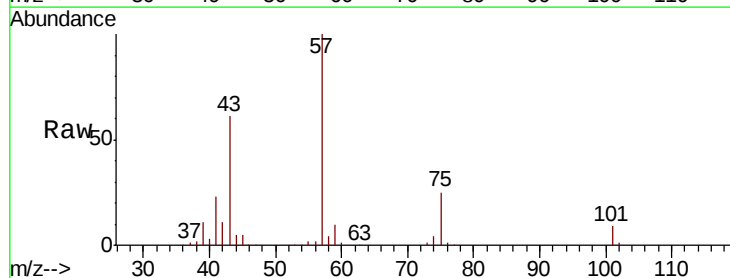
Instrument :
 MSVOA_N
 ClientSampleId :

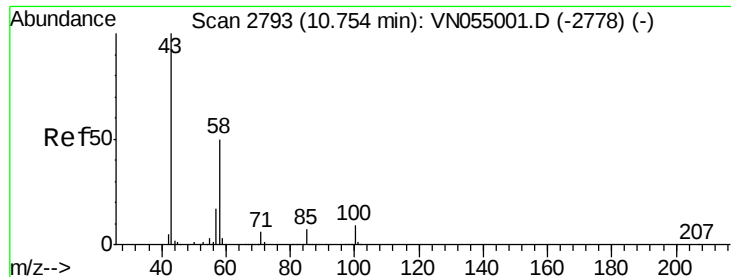
Tot Ion: 76 Resp: 10909
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.221 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.21 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

Tgt Ion: 63 Resp: 61
 Ion Ratio Lower Upper
 63 100
 106 0.0 20.0 30.0#

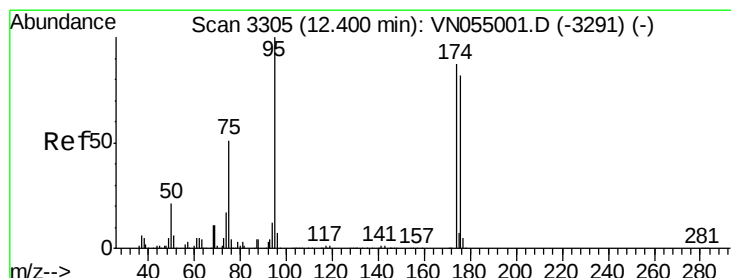
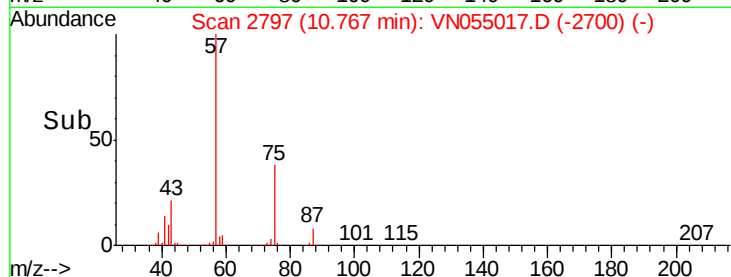
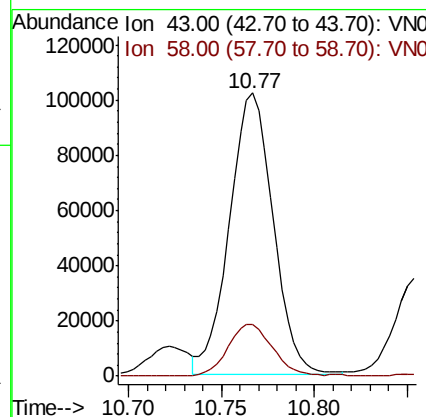
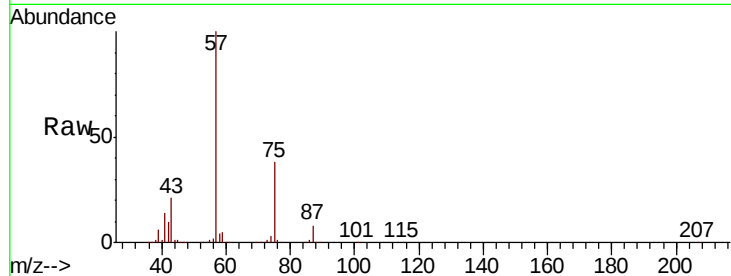




#59
2-Hexanone
Concen: 43.995 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

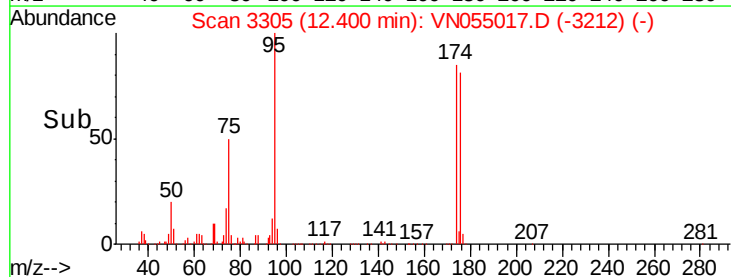
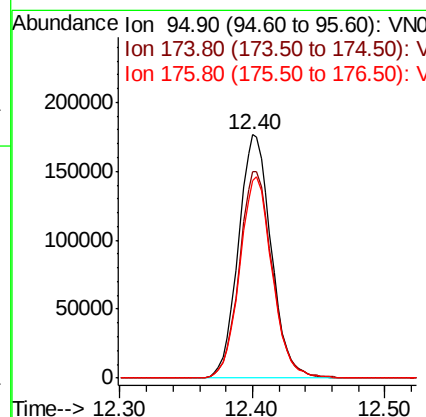
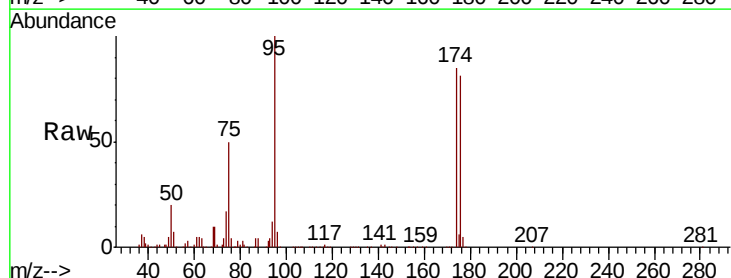
Instrument :
MSVOA_N
ClientSampleId :

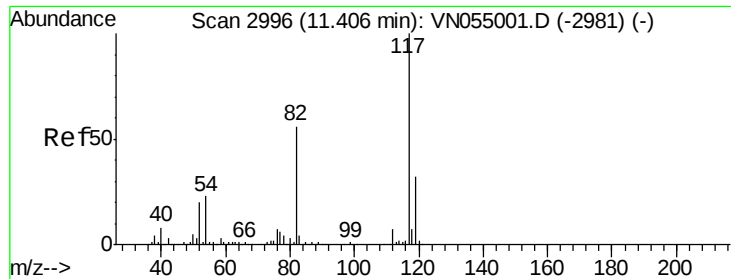
Tot Ion: 43 Resp: 167552
Ion Ratio Lower Upper
43 100
58 18.7 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 43.931 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion: 95 Resp: 303979
Ion Ratio Lower Upper
95 100
174 85.0 0.0 174.4
176 81.9 0.0 166.8

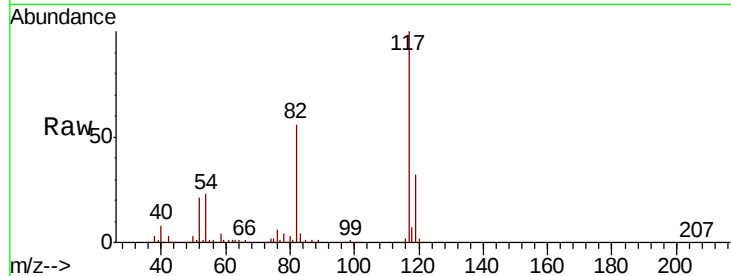




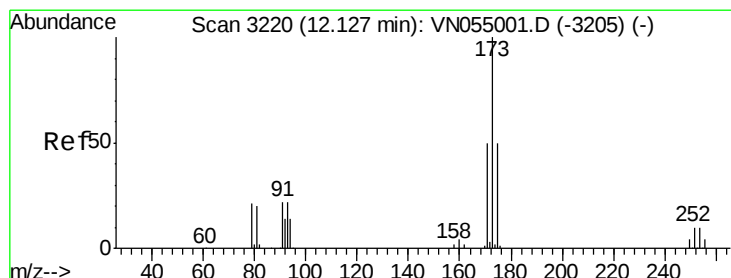
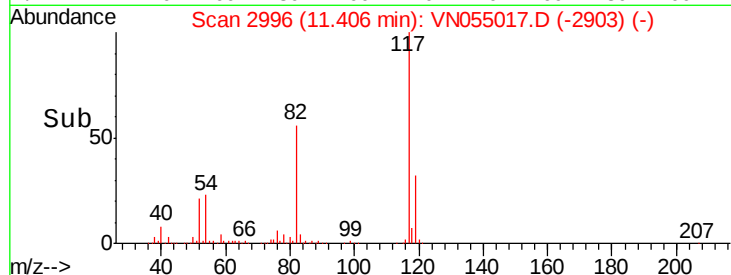
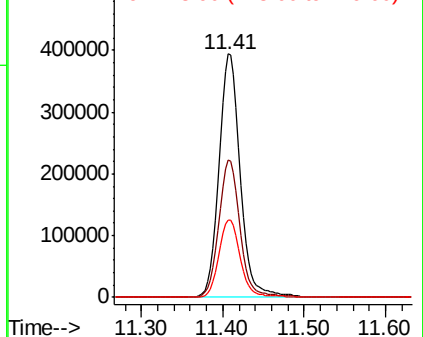
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 730247
Ion Ratio Lower Upper
117 100
82 56.3 44.6 66.8
119 31.8 25.5 38.3

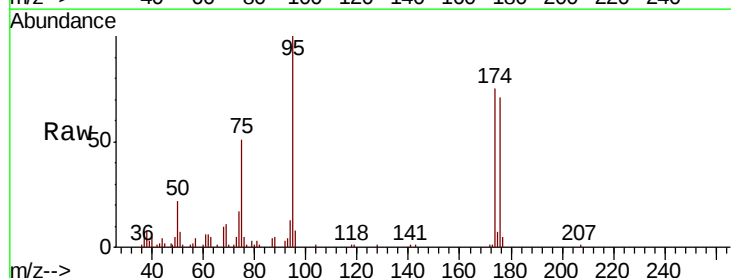


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

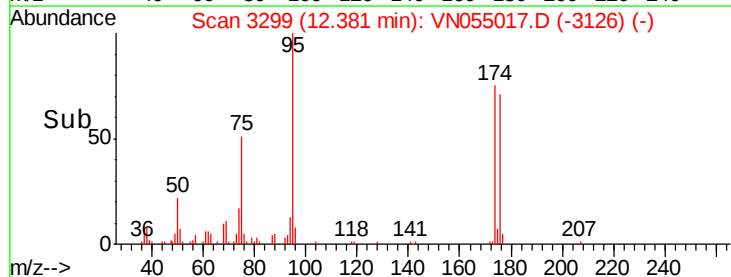
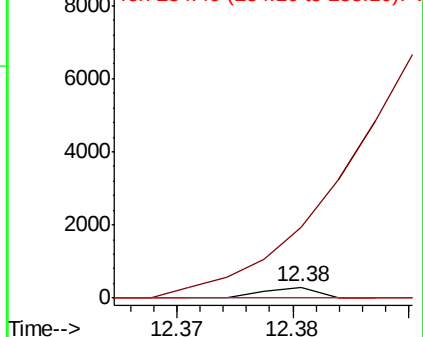


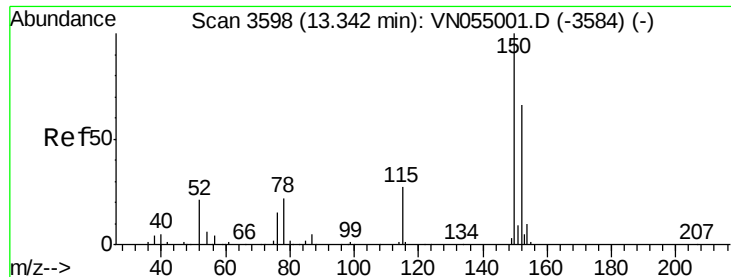
#71
Bromoform
Concen: 2.610 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion:173 Resp: 95
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#



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



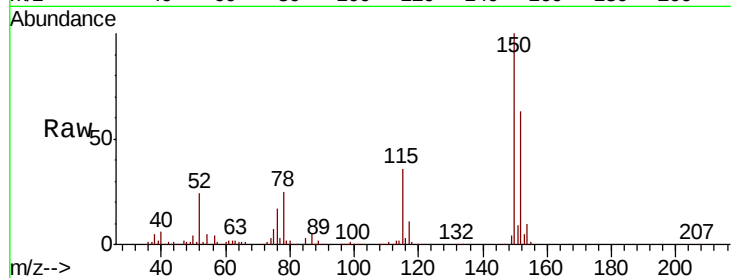


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.8	28.5	85.6
150	157.9	0.0	347.2

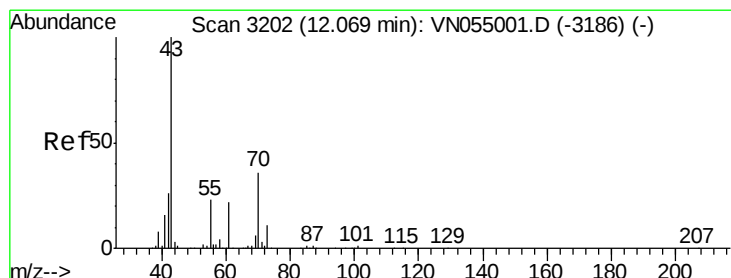
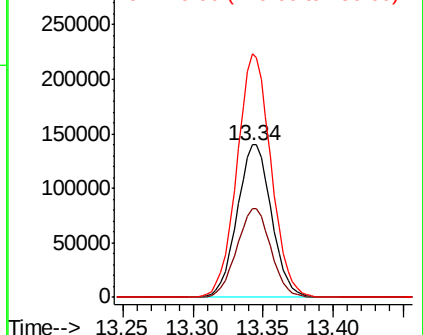
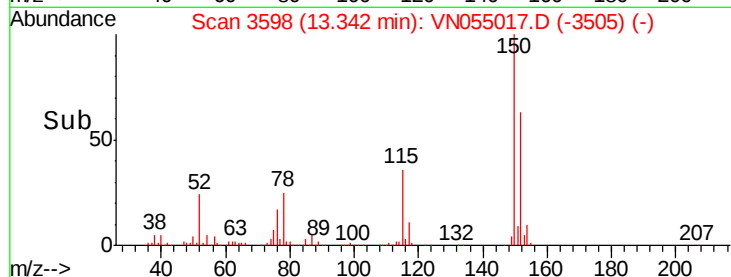


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

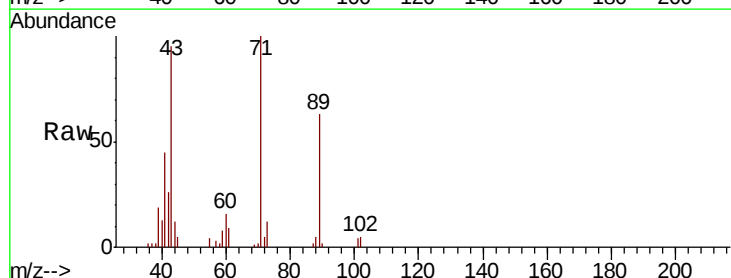
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 3.032 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN055017.D
Acq: 12 Apr 2019 23:18

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.9	29.4	44.0#
55	5.0	19.0	28.4#
61	10.4	17.7	26.5#



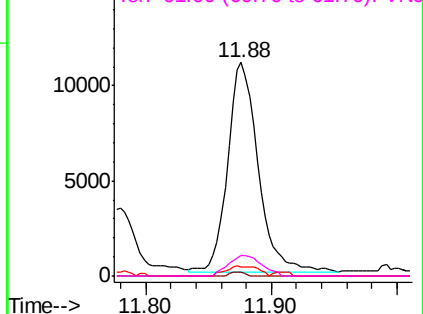
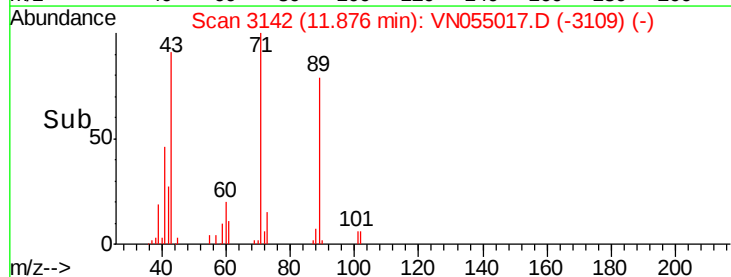
Abundance

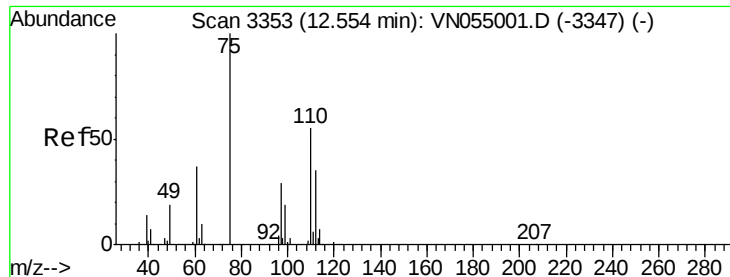
Ion 43.00 (42.70 to 43.70): V

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





#76

1,2,3-Trichloropropane

Concen: 35.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

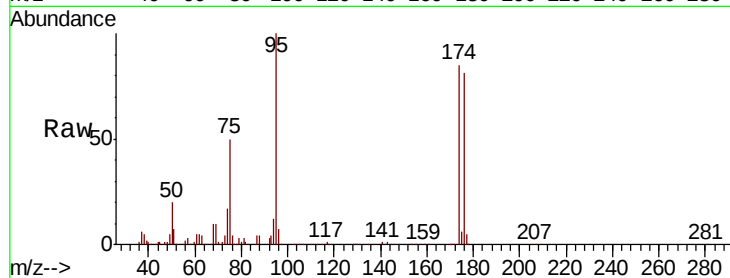
ClientSampleId :

Tot Ion: 75 Resp: 154266

Ion Ratio Lower Upper

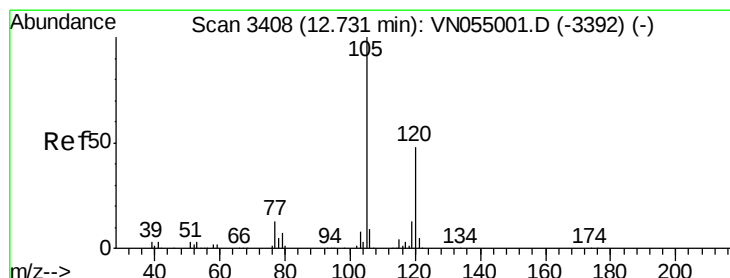
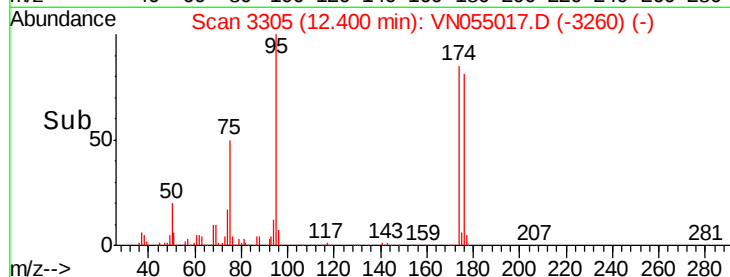
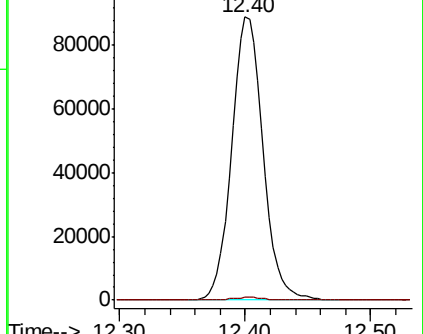
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055001.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN055001.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.360 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055017.D

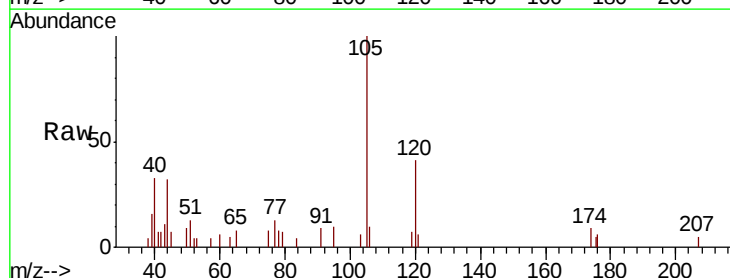
Acq: 12 Apr 2019 23:18

Tgt Ion: 105 Resp: 5954

Ion Ratio Lower Upper

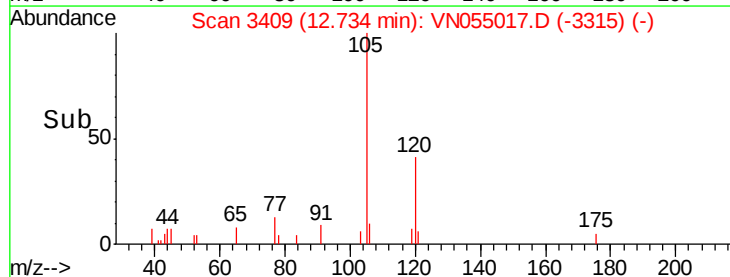
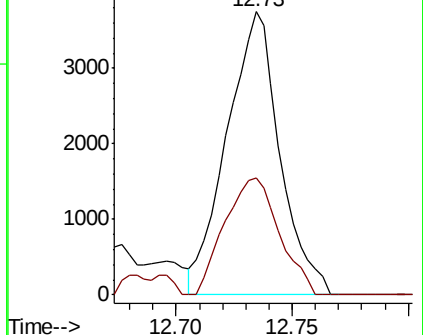
105 100

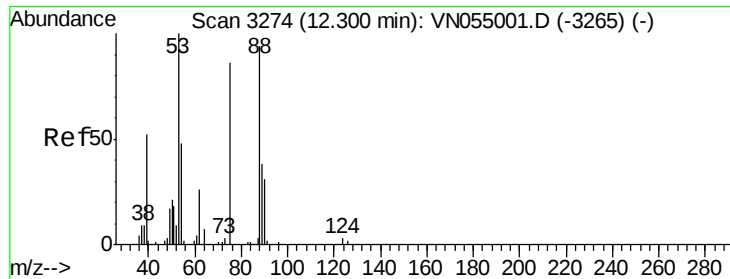
120 42.7 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN055001.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN055001.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 144.665 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

ClientSampleId :

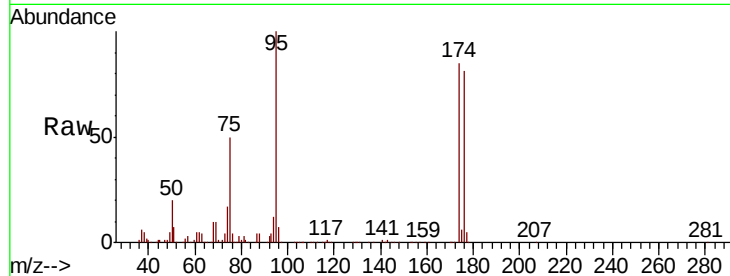
Tot Ion: 75 Resp: 154266

Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

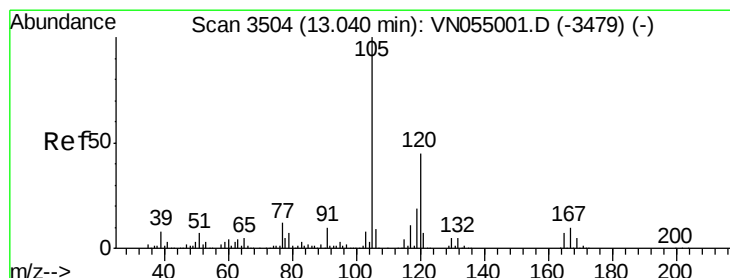
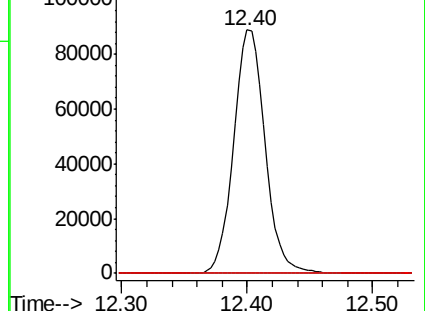
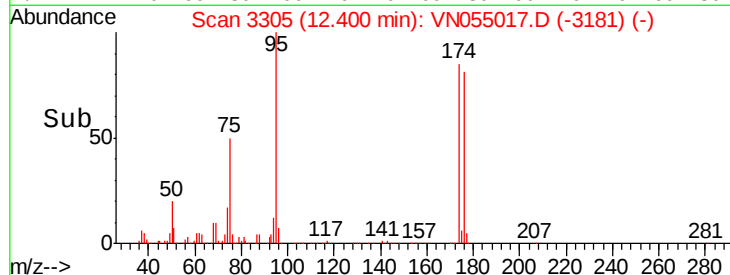
89 0.0 38.6 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VN055017.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN055017.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN055017.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.220 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055017.D

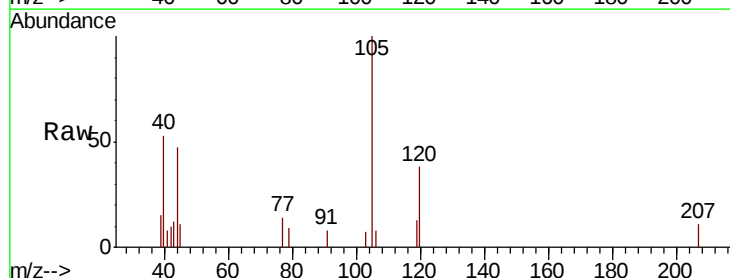
Acq: 12 Apr 2019 23:18

Tgt Ion: 105 Resp: 3491

Ion Ratio Lower Upper

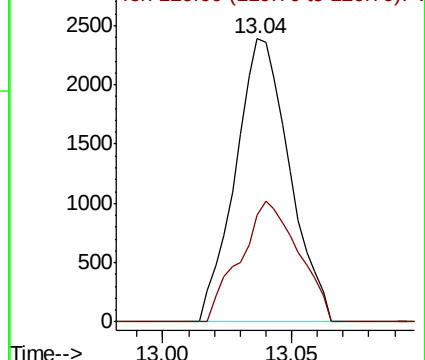
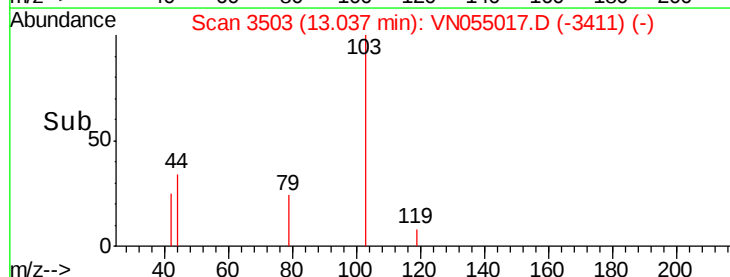
105 100

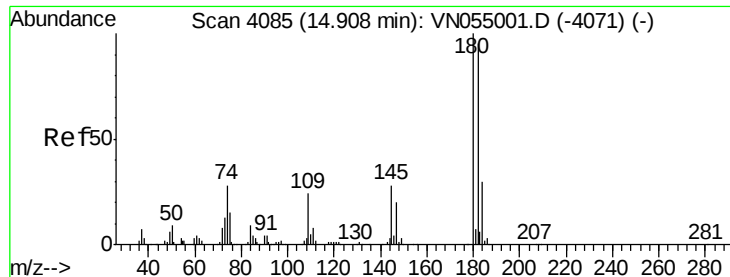
120 45.9 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): VN055017.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN055017.D (-3411) (-)

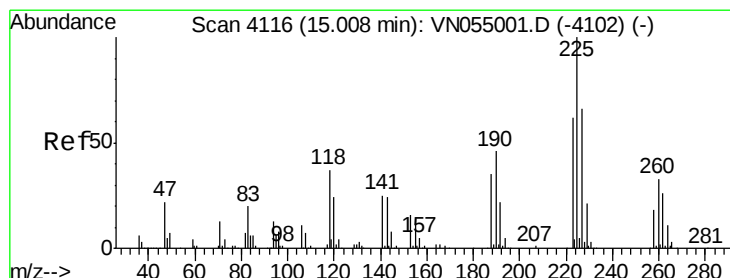
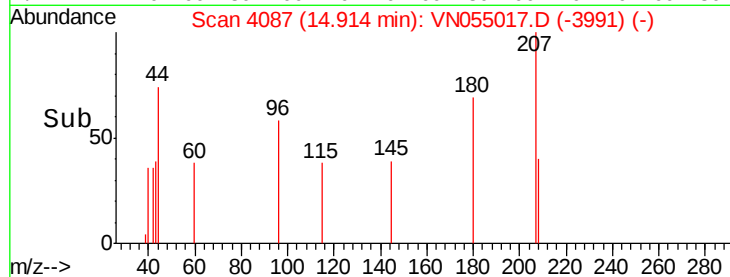
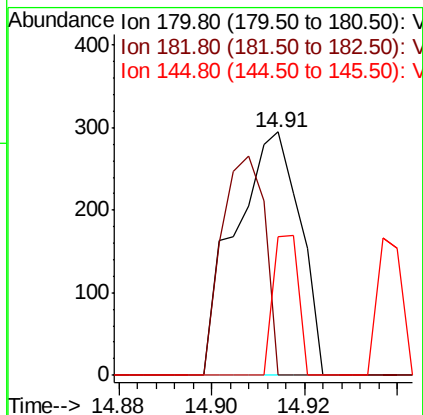
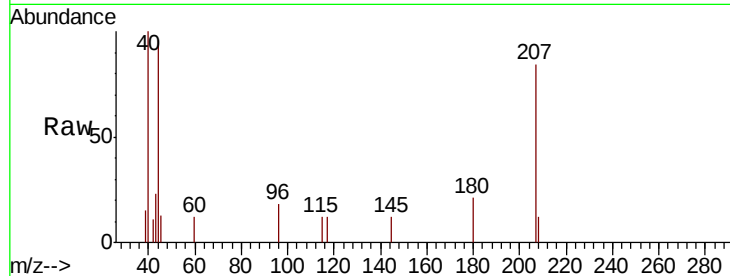




#93
 1,2,4-Trichlorobenzene
 Concen: 3.599 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

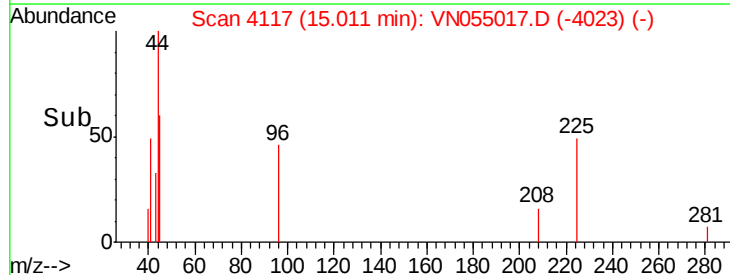
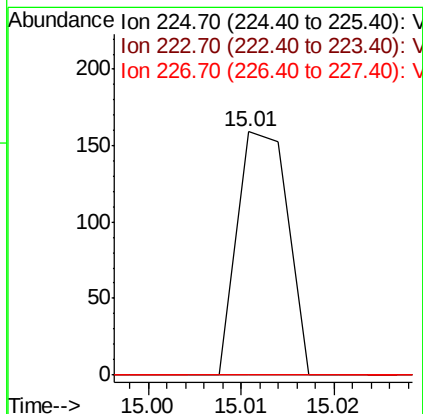
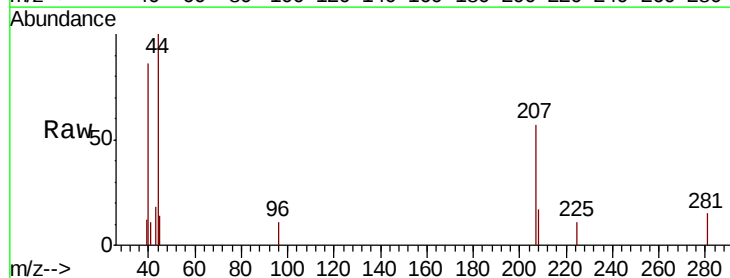
Instrument :
 MSVOA_N
 ClientSampleId :

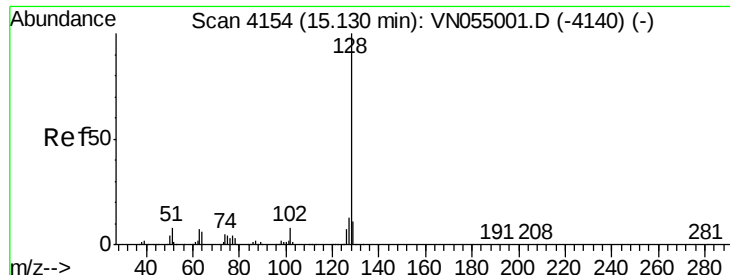
Tot Ion:180 Resp: 286
 Ion Ratio Lower Upper
 180 100
 182 59.8 47.5 142.6
 145 22.7 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055017.D
 Acq: 12 Apr 2019 23:18

Tgt Ion:225 Resp: 60
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.4 94.0#
 227 0.0 32.6 97.7#





#95

Naphthalene

Concen: 4.924 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

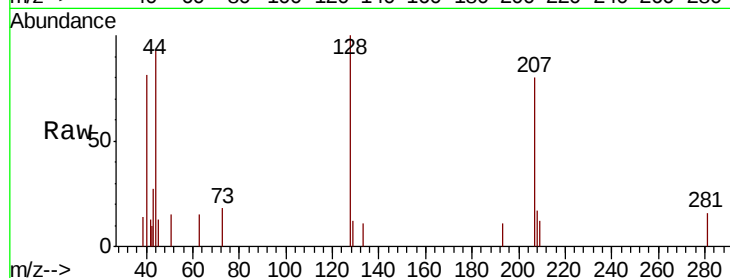
Lab File: VN055017.D

Acq: 12 Apr 2019 23:18

Instrument :

MSVOA_N

ClientSampleId :



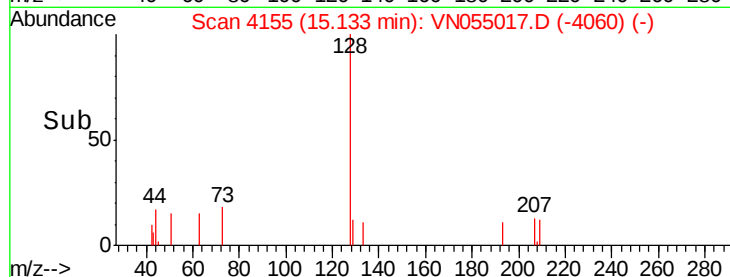
Tot Ion:128 Resp: 2502

Ion Ratio Lower Upper

128 100

127 4.4 10.1 15.1#

129 4.5 8.8 13.2#



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

