

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056839.D
 Acq On : 19 Jul 2019 18:00
 Operator : JC/SP
 Sample : K3903-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

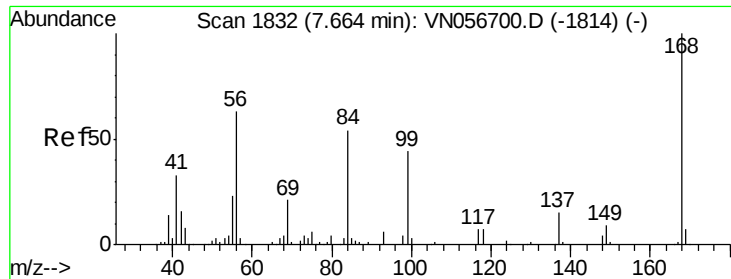
Quant Time: Jul 19 23:17:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	249581	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	451523	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	495354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176070	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	146922	53.22	ug/l	0.00
Spiked Amount			Recovery	=	106.44%	
35) Dibromofluoromethane	7.59	113	133865	47.64	ug/l	0.00
Spiked Amount			Recovery	=	95.28%	
50) Toluene-d8	10.09	98	578982	53.35	ug/l	0.00
Spiked Amount			Recovery	=	106.70%	
62) 4-Bromofluorobenzene	12.40	95	213517	58.34	ug/l	0.00
Spiked Amount			Recovery	=	116.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.55	41	1004	0.247	ug/l #	29
16) Acetone	3.82	43	19247	15.129	ug/l	99
18) Methyl Acetate	4.33	43	7229	1.587	ug/l #	71
20) Methylene Chloride	4.55	84	34783	12.511	ug/l	97
25) 2-Butanone	6.85	43	6454	3.470	ug/l	97
29) Tetrahydrofuran	7.23	42	894	0.737	ug/l #	63
30) Chloroform	7.37	83	2249	0.484	ug/l #	83
31) Cyclohexane	7.67	56	3943	0.893	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15155	3.627	ug/l #	48
37) Ethyl Acetate	6.85	43	6454	1.567	ug/l #	68
38) Carbon Tetrachloride	7.67	117	20750	5.296	ug/l #	16
43) Isopropyl Acetate	8.17	43	15851	2.448	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1462	0.430	ug/l #	45
48) Methyl methacrylate	9.18	41	8459	2.702	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	3741	0.892	ug/l #	83
54) cis-1,3-Dichloropropene	9.90	75	41723	8.603	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	8972	1.723	ug/l #	42
59) 2-Hexanone	10.76	43	122685	40.777	ug/l #	51
71) Bromoform	12.40	173	1422	0.501	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	98686	25.627	ug/l #	100
79) 2-Chlorotoluene	12.73	91	122	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	98686	79.143	ug/l #	13
83) tert-Butylbenzene	12.73	119	244	Below Cal	#	73
95) Naphthalene	15.13	128	2411	4.758	ug/l #	80

(#) = 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: VN056839.D

Acq: 19 Jul 2019 18:00

Instrument :

MSVOA_N

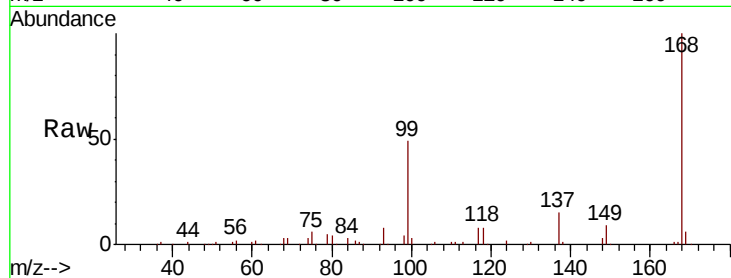
ClientSampled :

Tot Ion:168 Resp: 249581

Ion Ratio Lower Upper

168 100

99 48.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056839.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056839.D (-1739) (-)

7.67

120000

100000

80000

60000

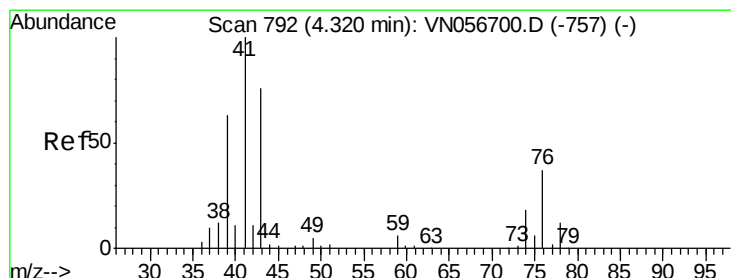
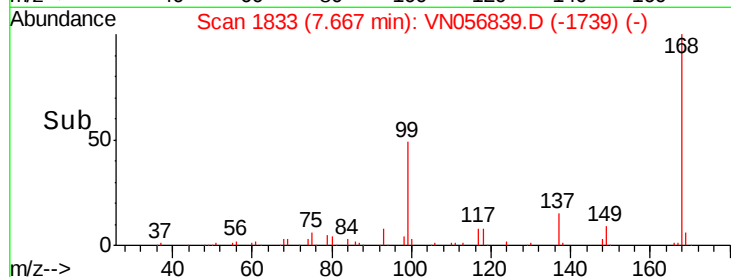
40000

20000

0

Time-->

7.60 7.70 7.80



#14

Allyl chloride

Concen: 0.247 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.23 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

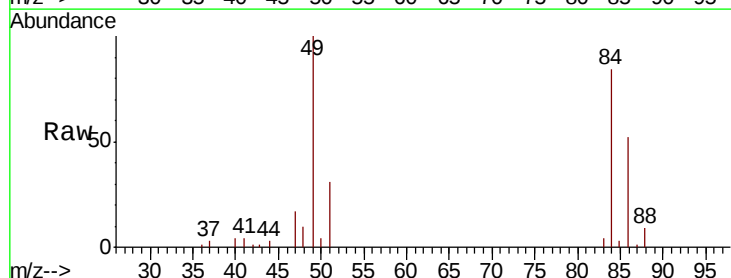
Tgt Ion: 41 Resp: 1004

Ion Ratio Lower Upper

41 100

39 0.0 46.9 70.3#

76 0.0 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VN056839.D (-699) (-)

Ion 39.00 (38.70 to 39.70): VN056839.D (-699) (-)

Ion 75.90 (75.60 to 76.60): VN056839.D (-699) (-)

4.55

600

500

400

300

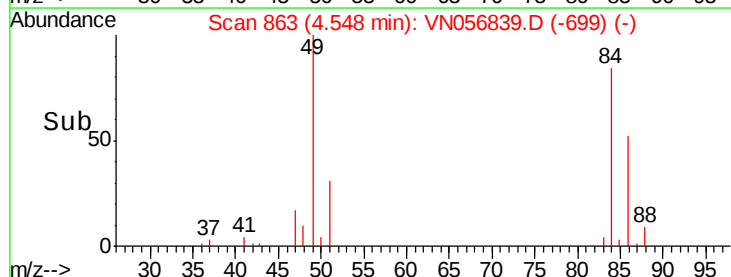
200

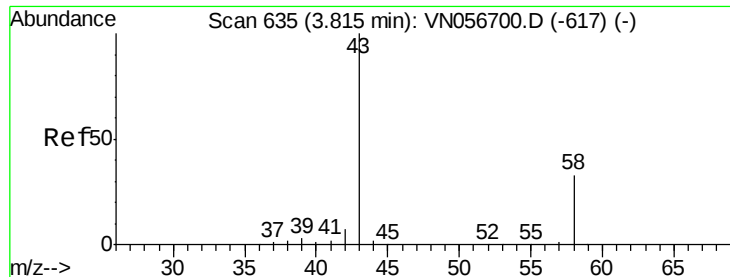
100

0

Time-->

4.50 4.55





#16

Acetone

Concen: 15.129 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

Instrument :

MSVOA_N

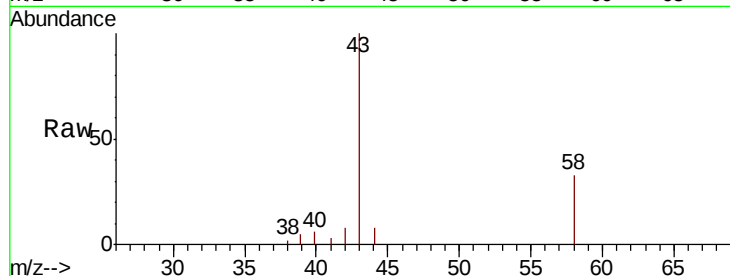
ClientSampleId :

Tot Ion: 43 Resp: 19247

Ion Ratio Lower Upper

43 100

58 33.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

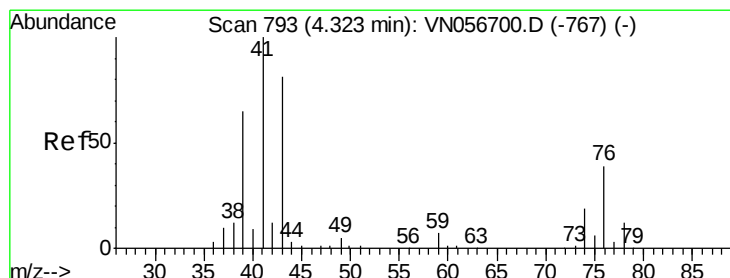
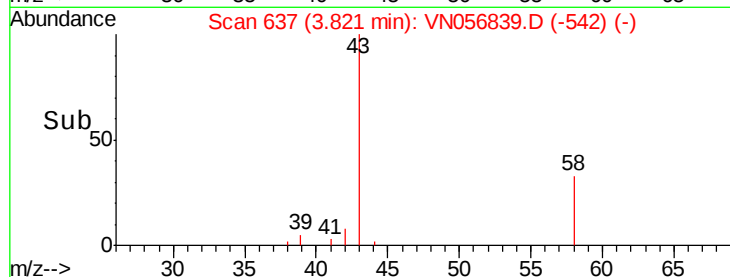
6000

4000

2000

0

Time-->



#18

Methyl Acetate

Concen: 1.587 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056839.D

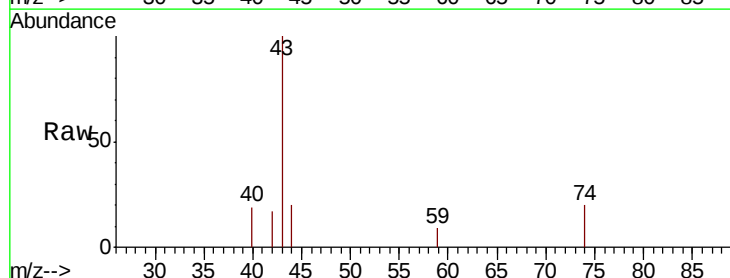
Acq: 19 Jul 2019 18:00

Tgt Ion: 43 Resp: 7229

Ion Ratio Lower Upper

43 100

74 9.6 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

2500

2000

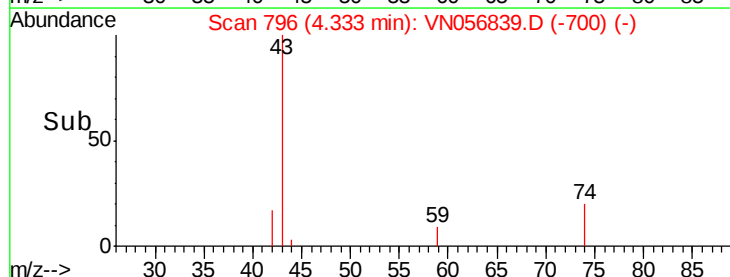
1500

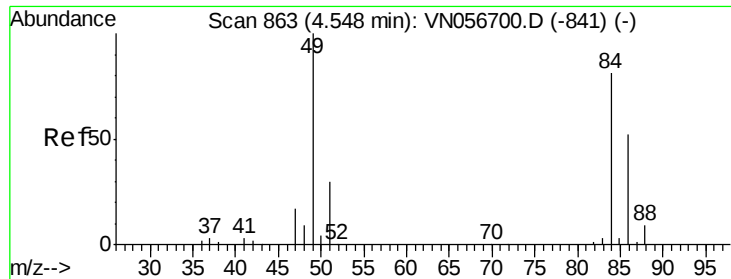
1000

500

0

Time-->

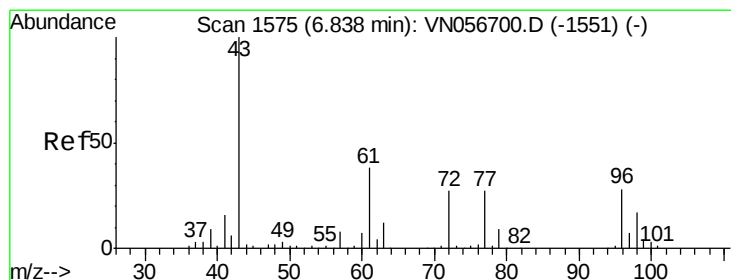
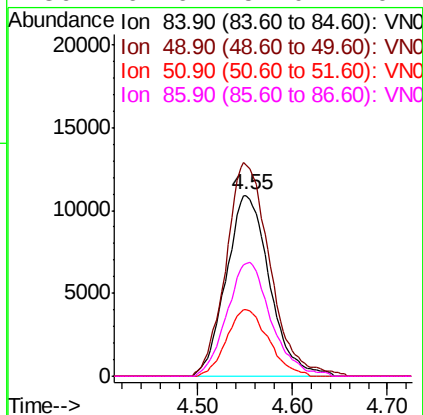
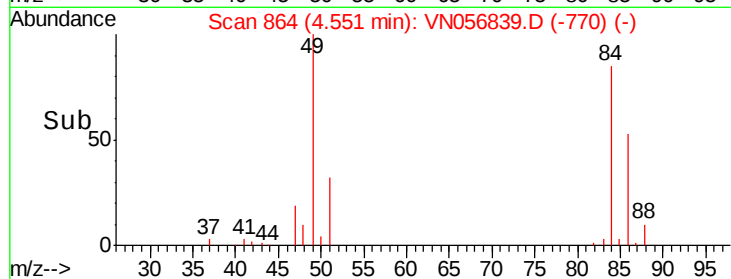
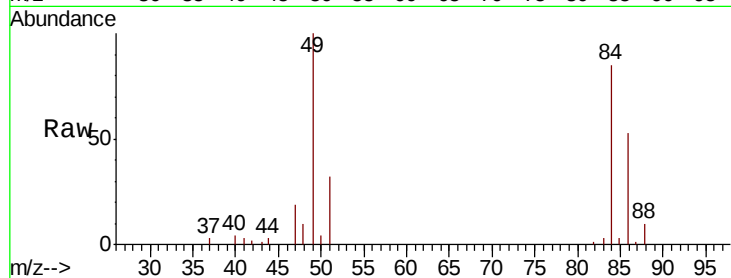




#20
Methvlene Chloride
Concen: 12.511 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

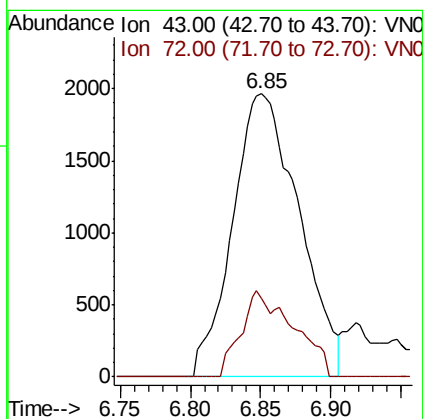
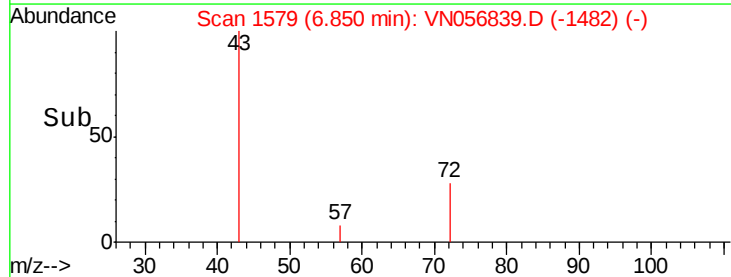
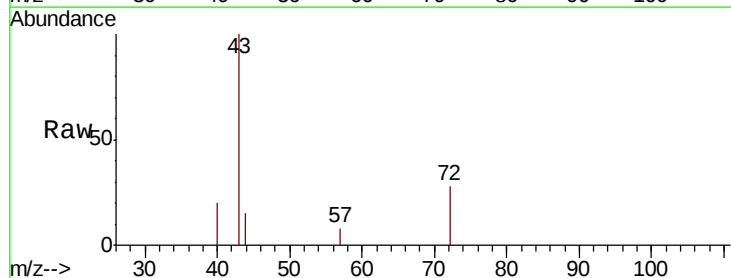
Instrument :
MSVOA_N
ClientSampleId :

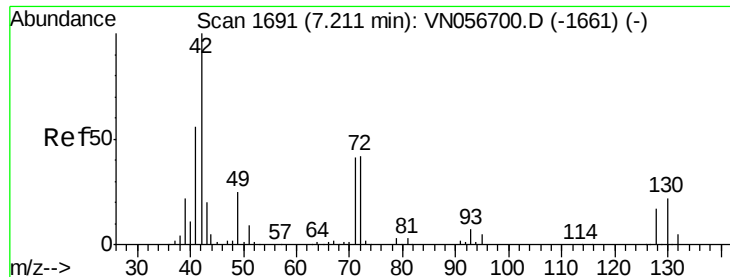
Tot Ion: 84 Resp: 34783
Ion Ratio Lower Upper
84 100
49 117.2 98.2 147.4
51 37.0 29.6 44.4
86 62.6 51.0 76.4



#25
2-Butanone
Concen: 3.470 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion: 43 Resp: 6454
Ion Ratio Lower Upper
43 100
72 28.0 21.2 31.8

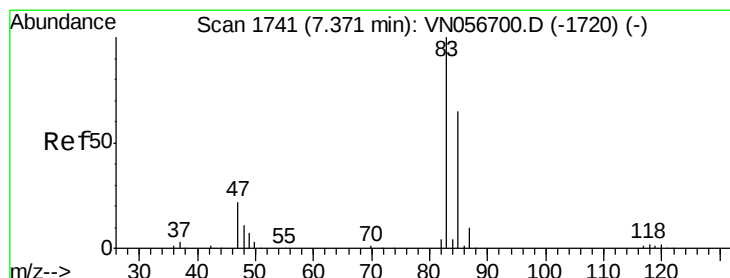
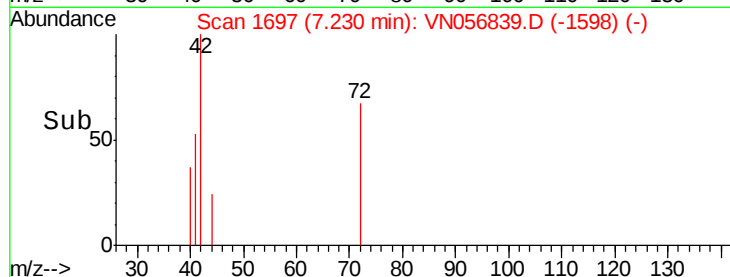
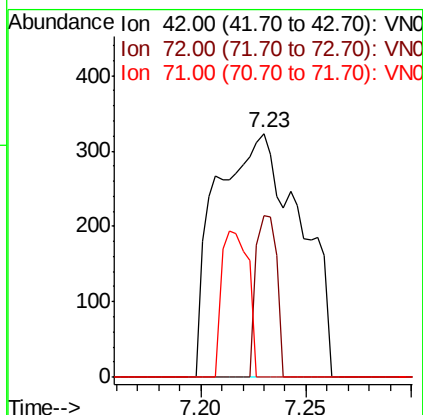
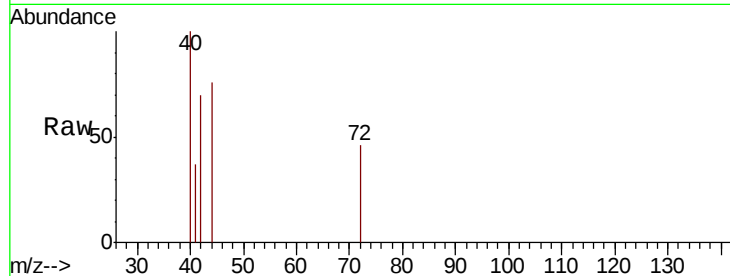




#29
Tetrahydrofuran
Concen: 0.737 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.02 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

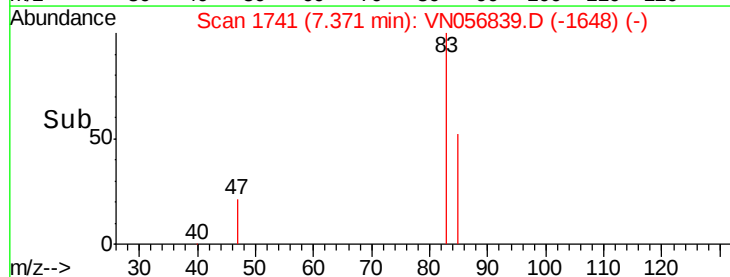
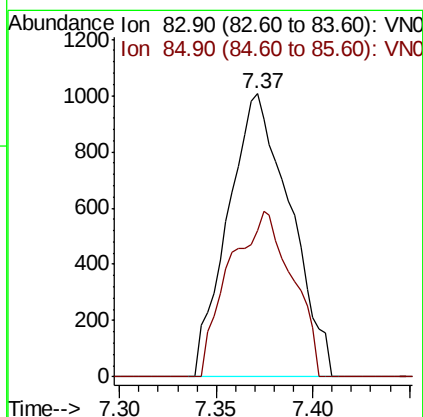
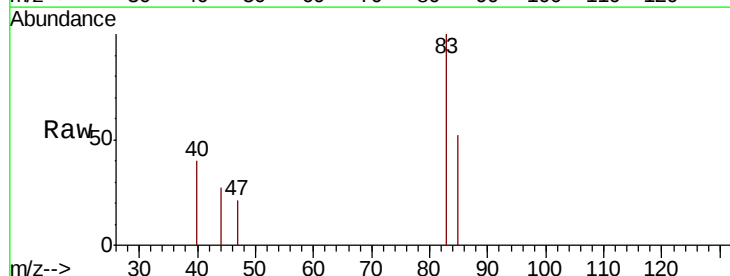
Instrument :
MSVOA_N
ClientSampled :

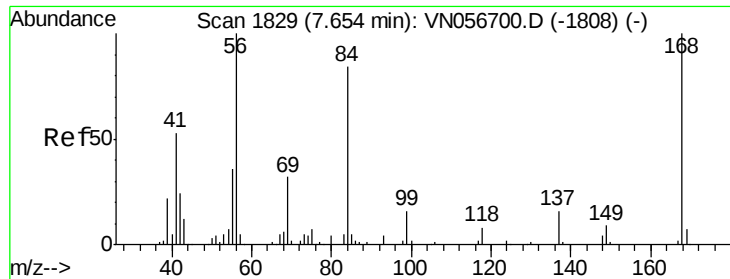
Tot Ion: 42 Resp: 894
Ion Ratio Lower Upper
42 100
72 16.6 33.5 50.3#
71 18.9 31.8 47.8#



#30
Chloroform
Concen: 0.484 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion: 83 Resp: 2249
Ion Ratio Lower Upper
83 100
85 51.9 51.9 77.9#

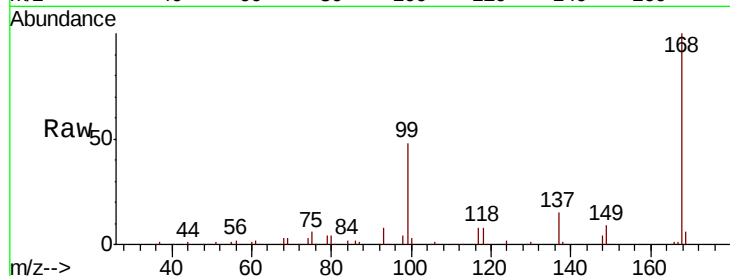




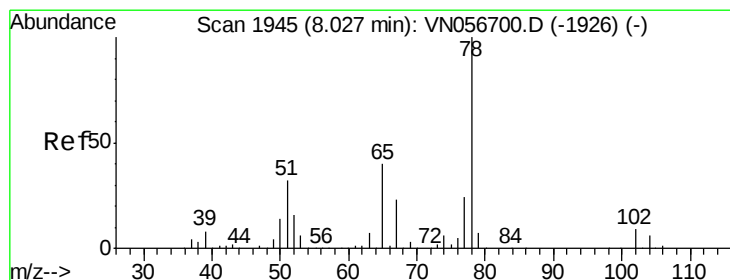
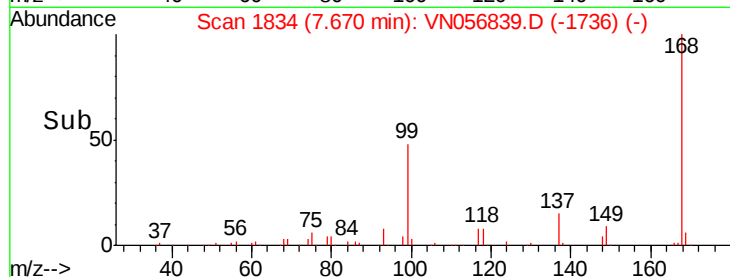
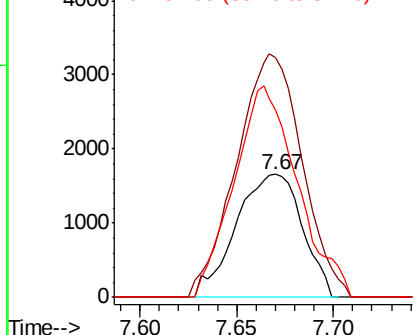
#31
Cyclohexane
Concen: 0.893 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3943
Ion Ratio Lower Upper
56 100
69 194.7 25.8 38.8#
84 152.5 67.4 101.0#

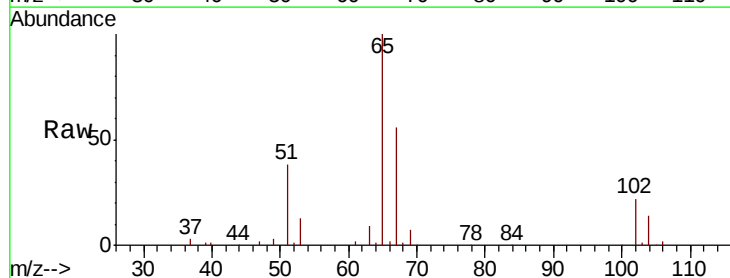


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

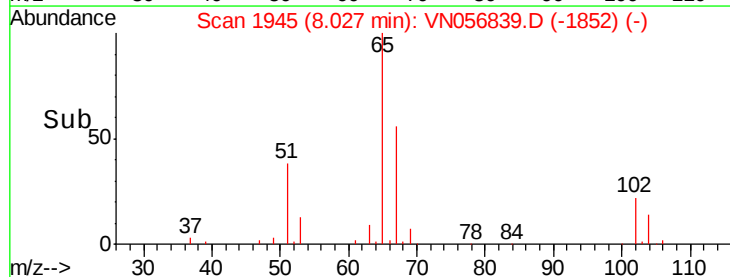
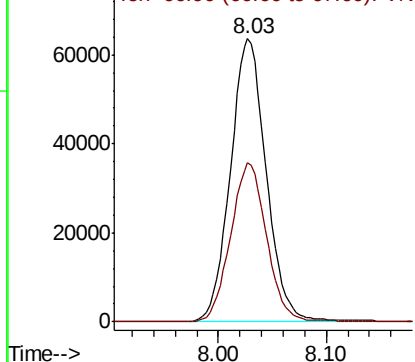


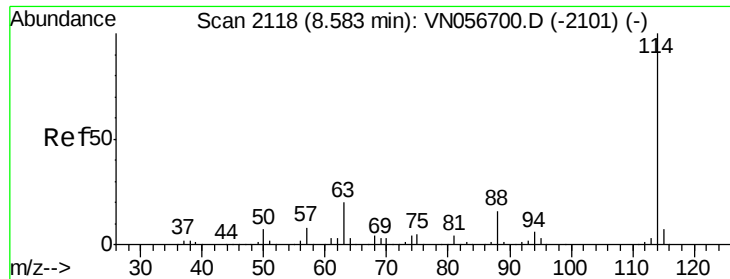
#33
1,2-Dichloroethane-d4
Concen: 53.219 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion: 65 Resp: 146922
Ion Ratio Lower Upper
65 100
67 56.2 0.0 109.0



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

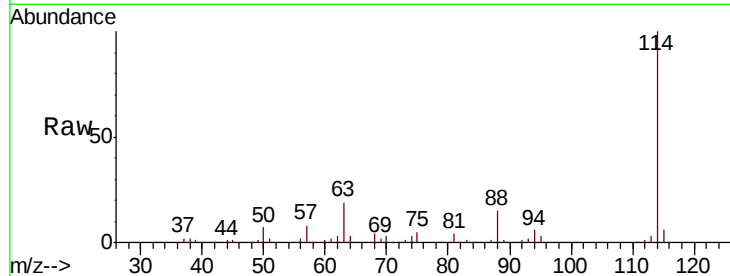




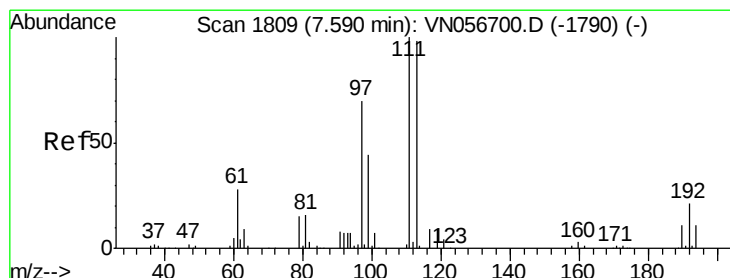
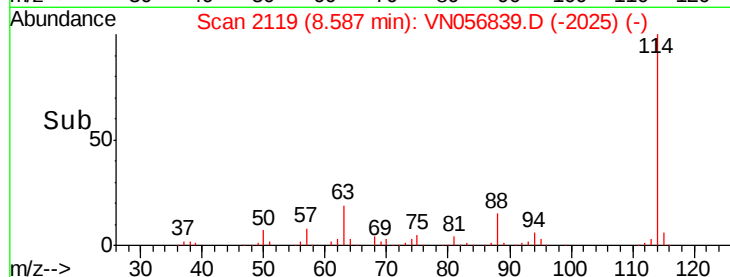
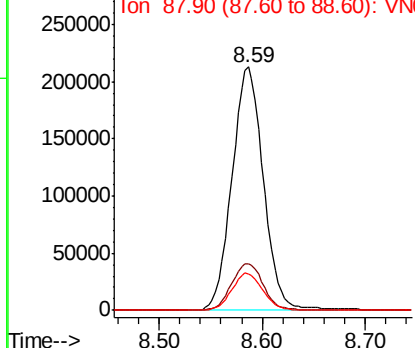
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 451523
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.4
 88 15.1 0.0 31.2

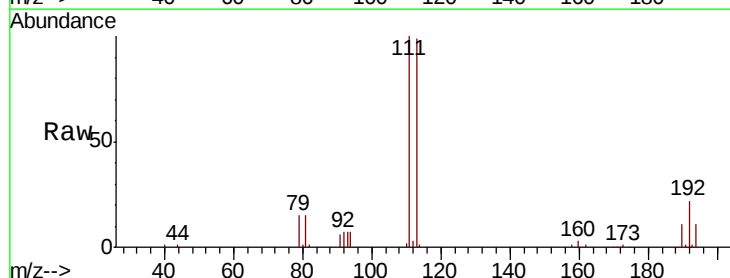


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

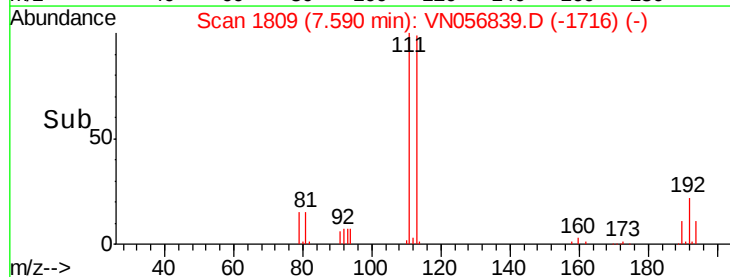
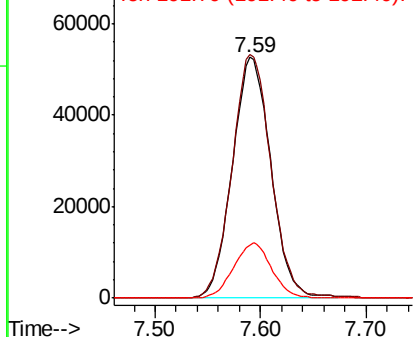


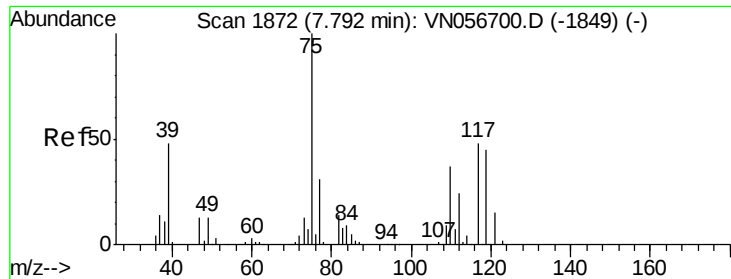
#35
 Dibromofluoromethane
 Concen: 47.640 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Tgt Ion:113 Resp: 133865
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.8 122.6
 192 22.5 17.5 26.3



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

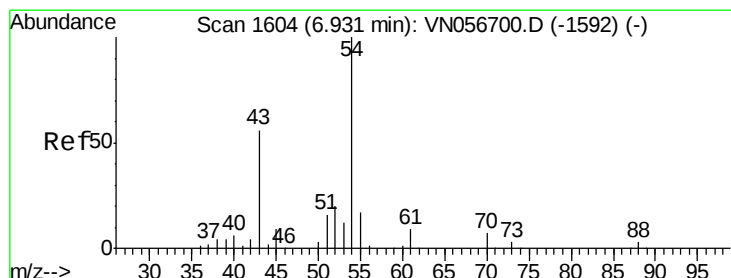
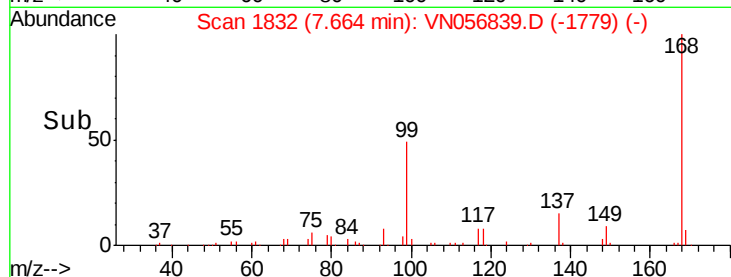
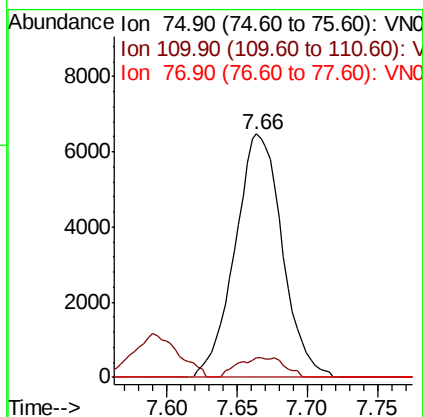
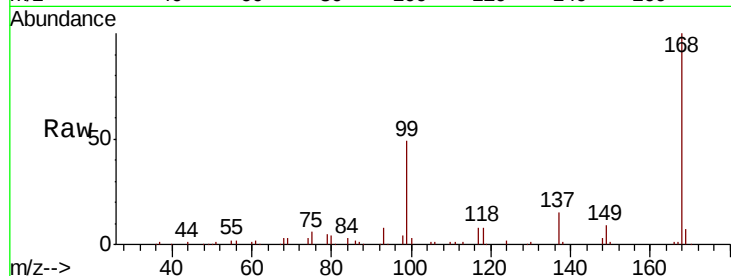




#36
 1,1-Dichloropropene
 Concen: 3.627 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

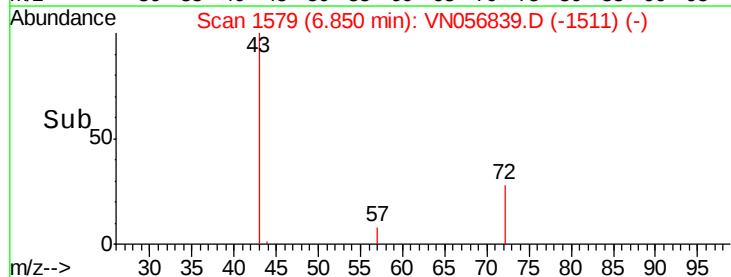
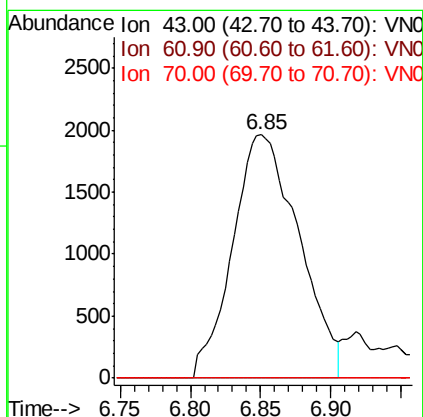
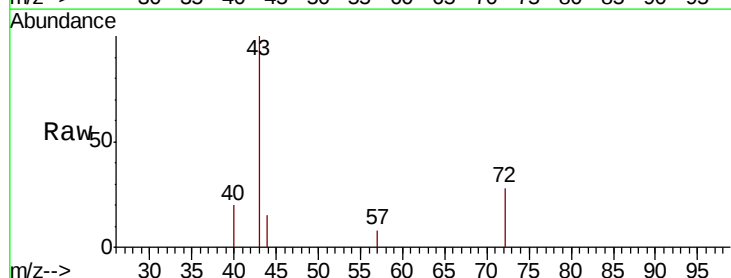
Instrument :
 MSVOA_N
 ClientSampled :

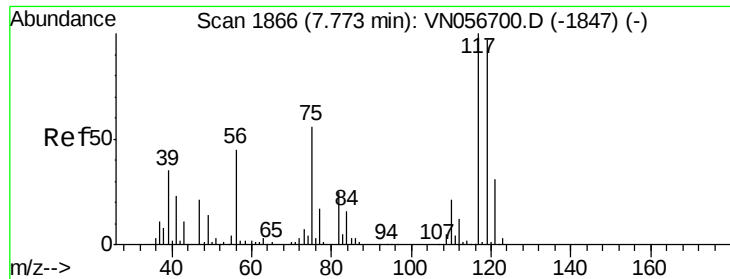
Tot Ion	75	Resp	15155
Ion Ratio	100	Lower	Upper
75	100		
110	8.1	18.4	55.4#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.567 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. -0.08 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Tgt Ion	43	Resp	6454
Ion Ratio	100	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	8.5	12.7#





#38

Carbon Tetrachloride

Concen: 5.296 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

Instrument :

MSVOA_N

ClientSampleId :

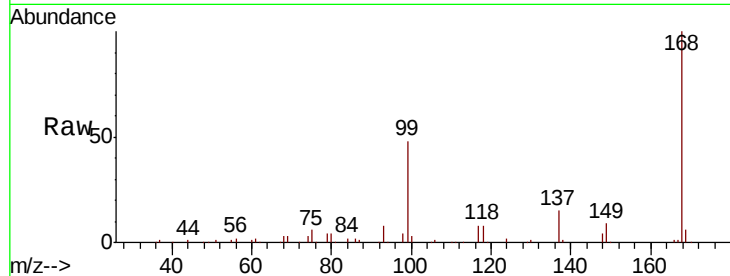
Tot Ion:117 Resp: 20750

Ion Ratio Lower Upper

117 100

119 6.2 77.5 116.3#

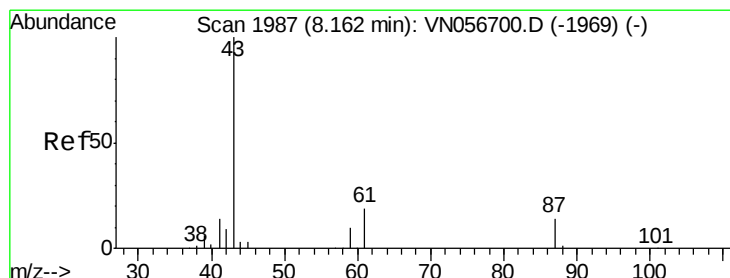
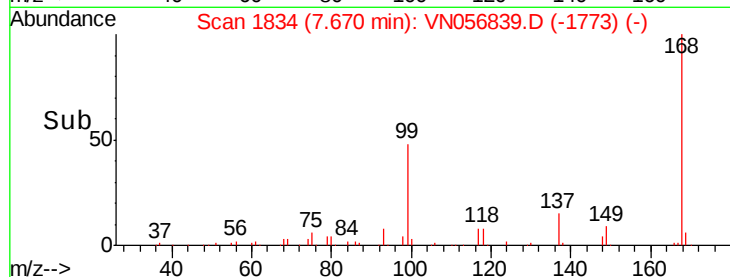
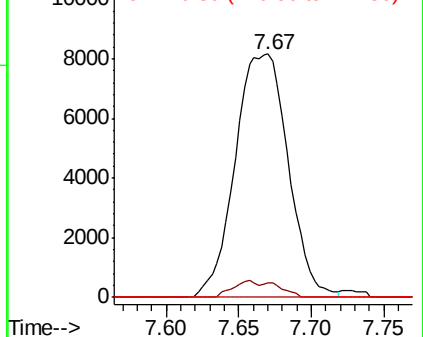
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.448 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

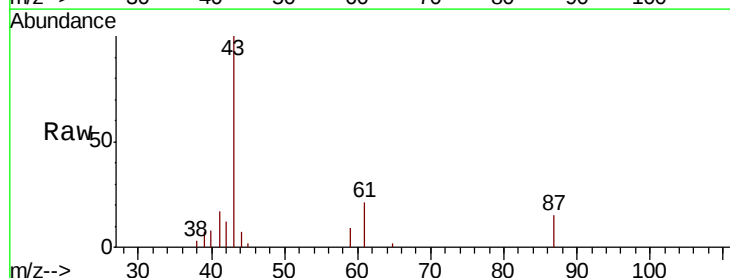
Tgt Ion: 43 Resp: 15851

Ion Ratio Lower Upper

43 100

61 21.8 22.3 33.5#

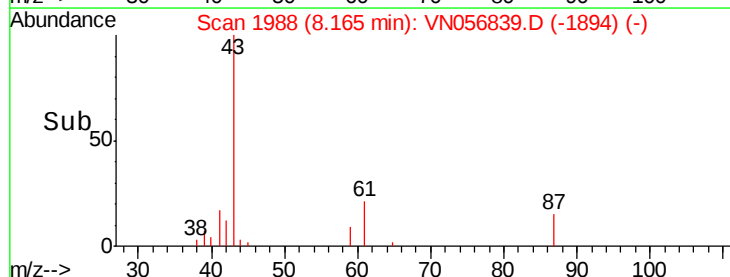
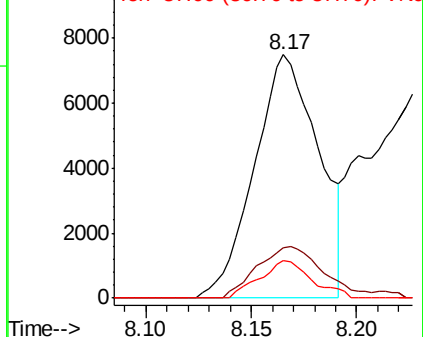
87 12.4 11.1 16.7

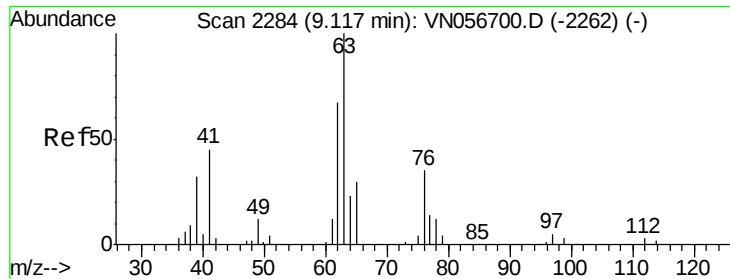


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

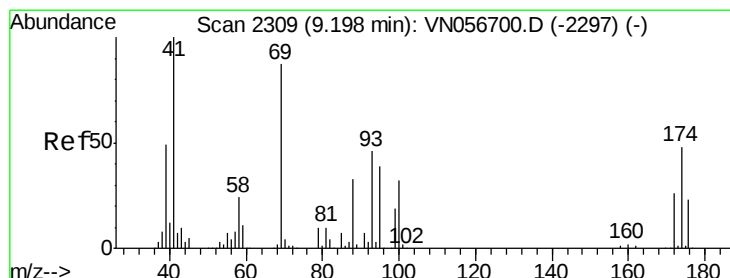
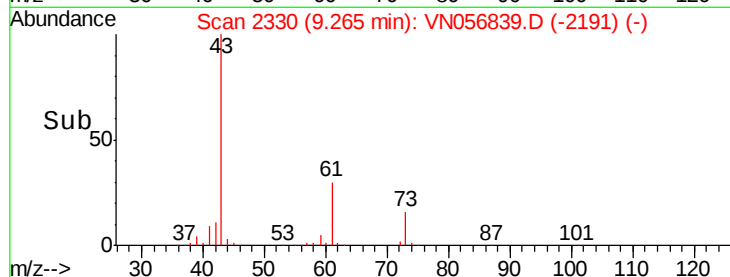
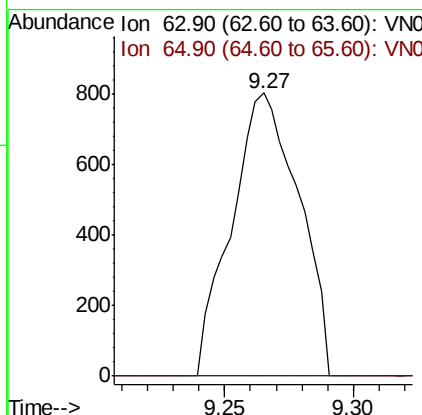
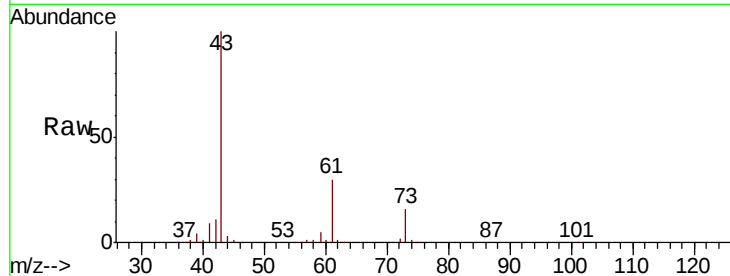




#45
 1,2-Dichloropropane
 Concen: 0.430 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

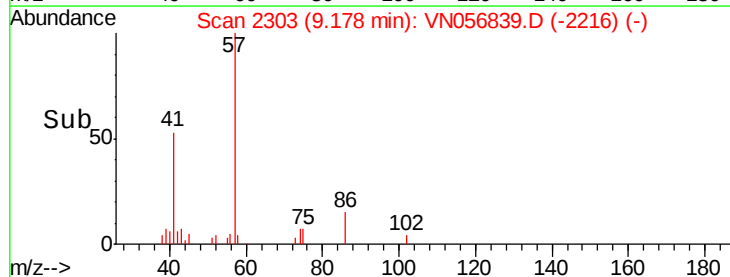
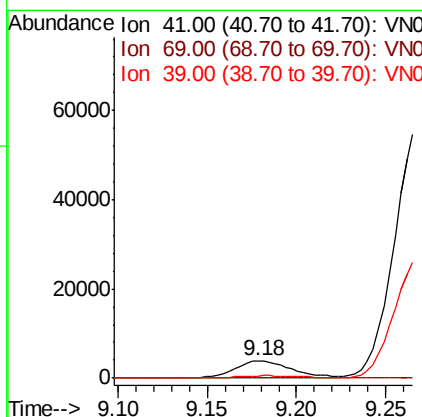
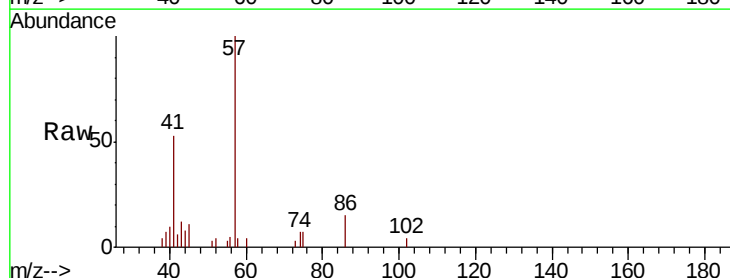
Instrument :
 MSVOA_N
 ClientSampled :

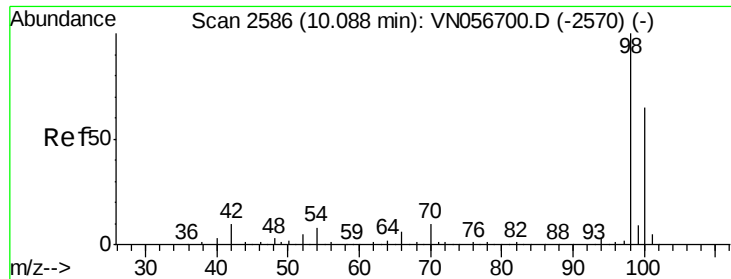
Tot Ion: 63 Resp: 1462
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.702 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Tgt Ion: 41 Resp: 8459
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 0.0 41.2 61.8#





#50

Toluene-d8

Concen: 53.350 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

Instrument :

MSVOA_N

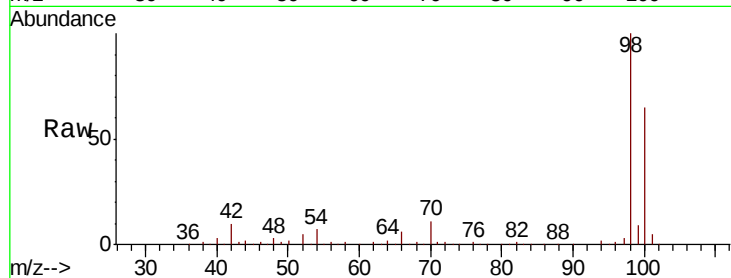
ClientSampled :

Tot Ion: 98 Resp: 578982

Ion Ratio Lower Upper

98 100

100 63.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

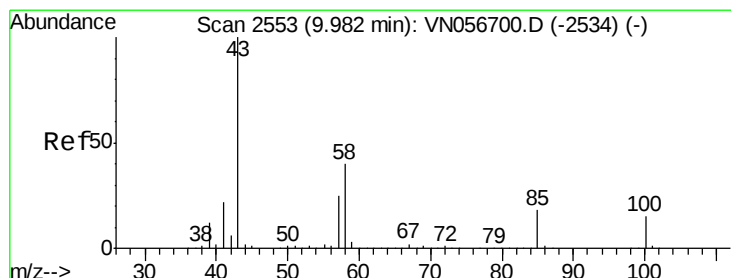
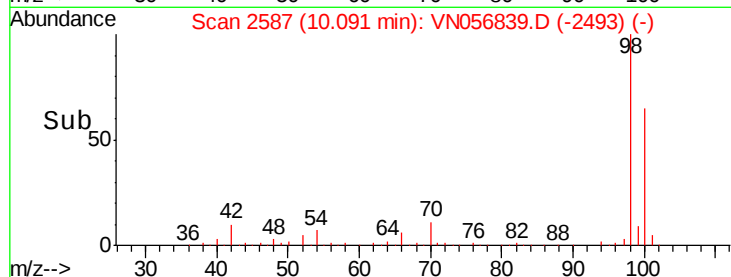
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.892 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN056839.D

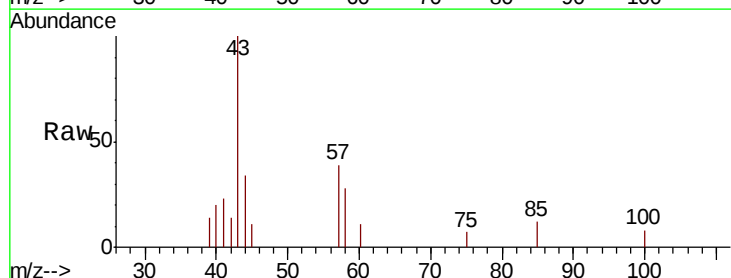
Acq: 19 Jul 2019 18:00

Tgt Ion: 43 Resp: 3741

Ion Ratio Lower Upper

43 100

58 29.7 32.0 48.0#



Abundance Ion 43.00 (42.70 to 43.70): VN056700.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN056700.D (-2534) (-)

9.98

4000

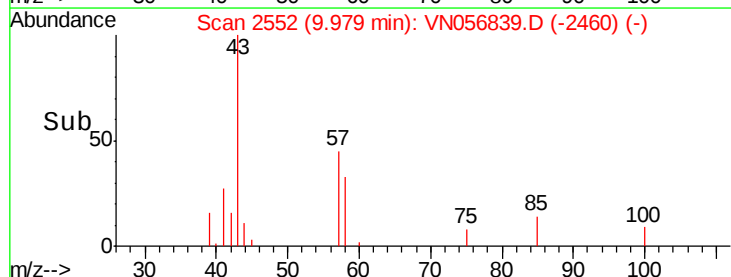
3000

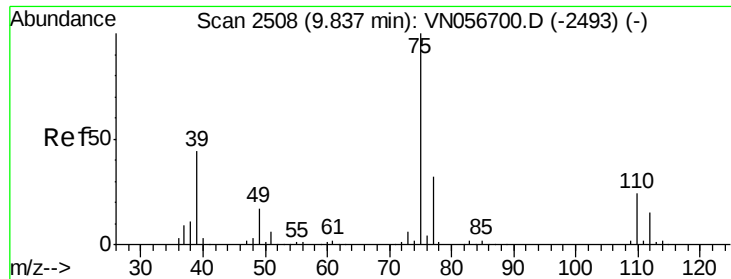
2000

1000

0

Time-->



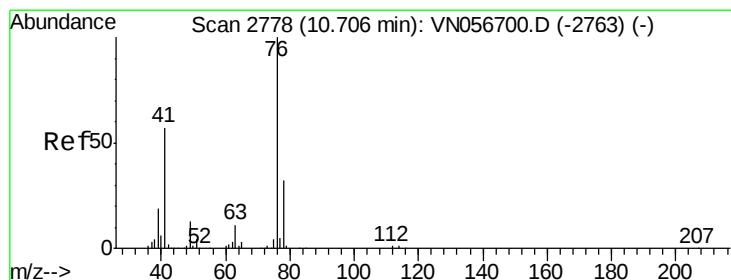
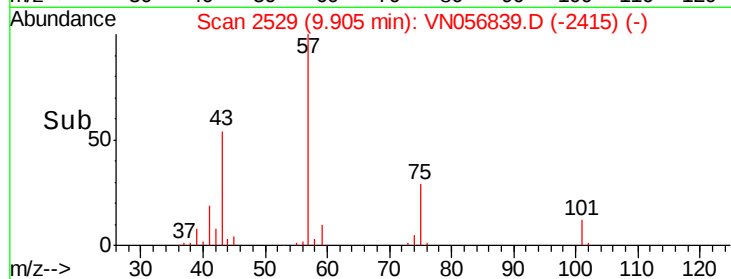
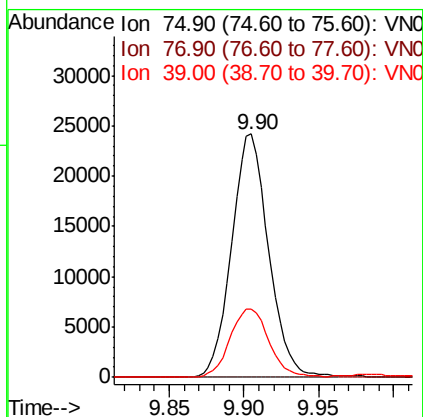
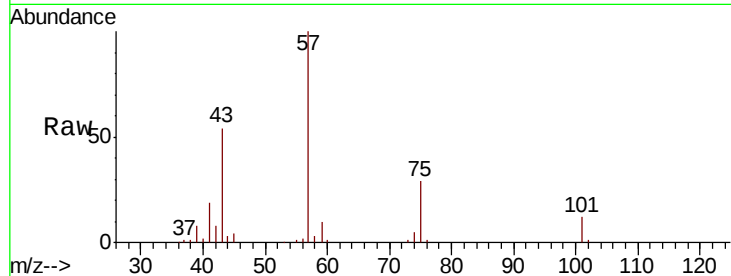


#54

cis-1,3-Dichloropropene
 Concen: 8.603 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Instrument :
 MSVOA_N
 ClientSampleId :

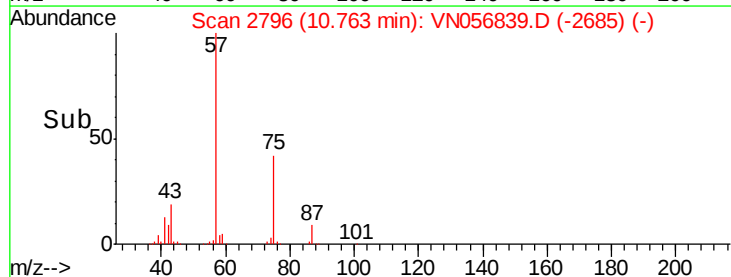
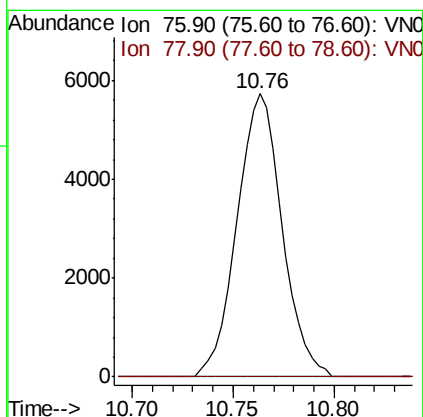
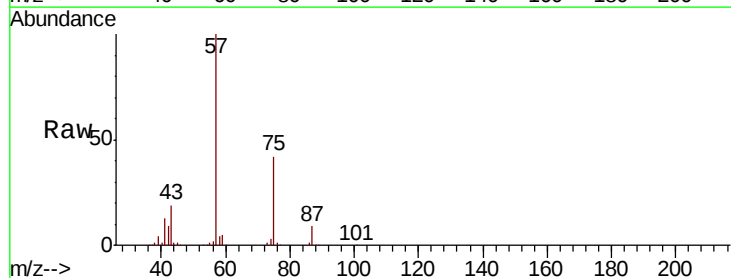
Tot Ion: 75 Resp: 41723
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 28.3 35.1 52.7#

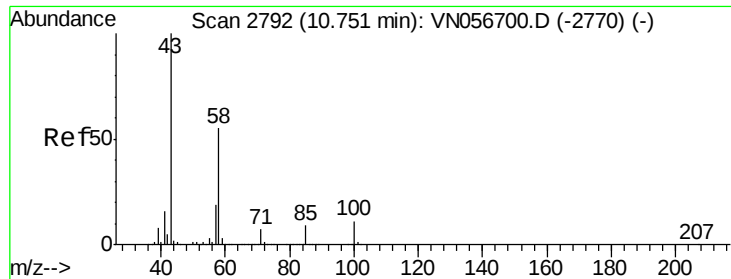


#57

1,3-Dichloropropane
 Concen: 1.723 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056839.D
 Acq: 19 Jul 2019 18:00

Tgt Ion: 76 Resp: 8972
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

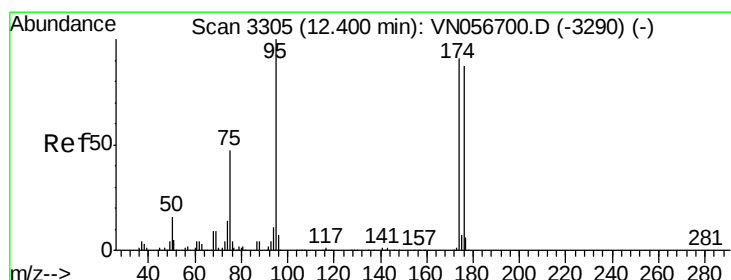
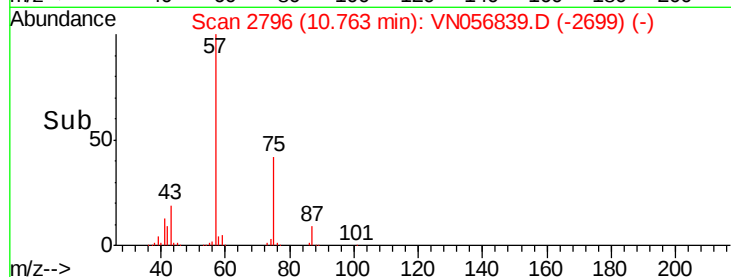
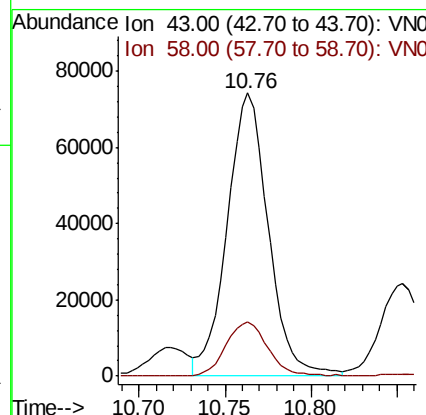
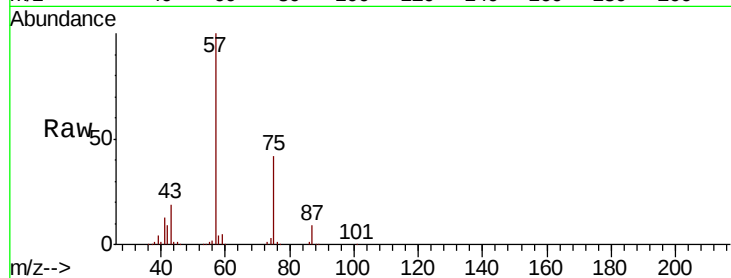




#59
2-Hexanone
Concen: 40.777 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

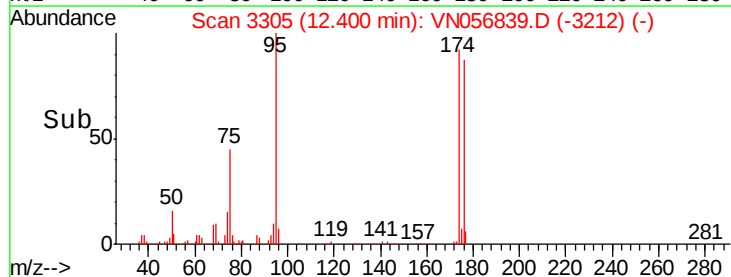
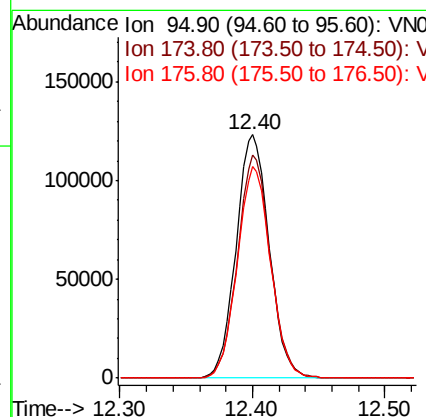
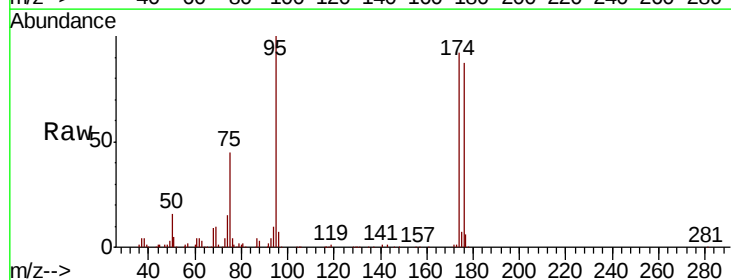
Instrument :
MSVOA_N
ClientSampled :

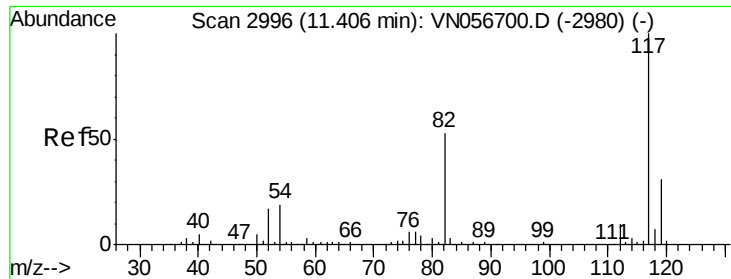
Tot Ion: 43 Resp: 122685
Ion Ratio Lower Upper
43 100
58 19.9 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 58.340 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion: 95 Resp: 213517
Ion Ratio Lower Upper
95 100
174 90.9 0.0 180.0
176 87.3 0.0 173.2

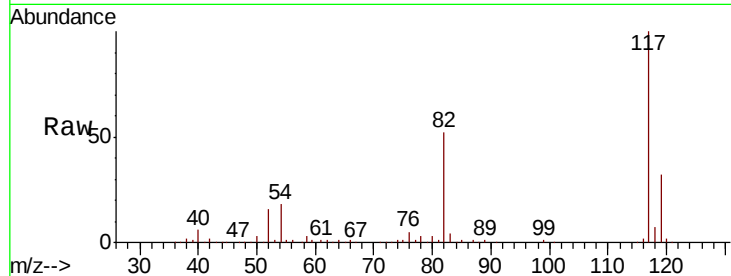




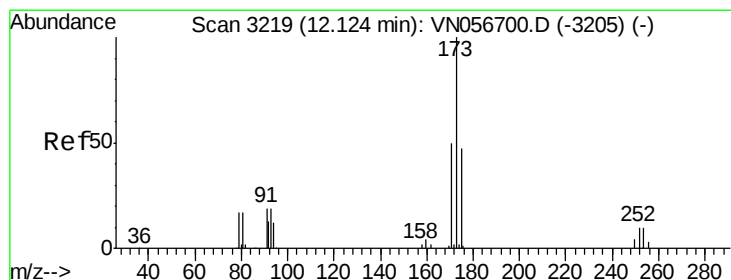
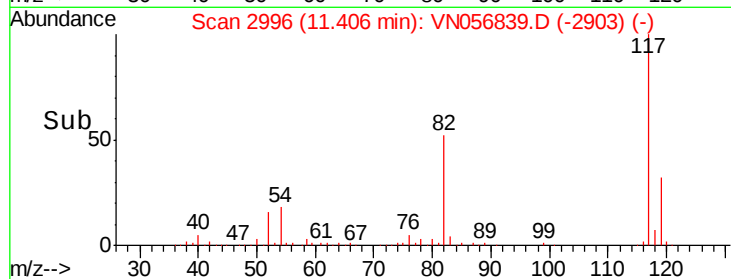
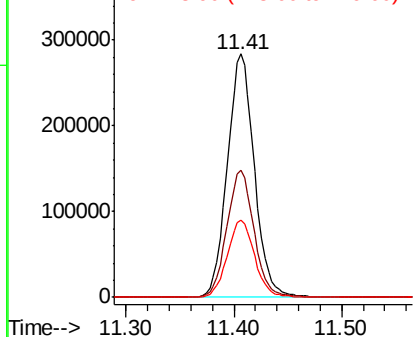
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 495354
Ion Ratio Lower Upper
117 100
82 52.0 42.2 63.2
119 31.6 25.2 37.8

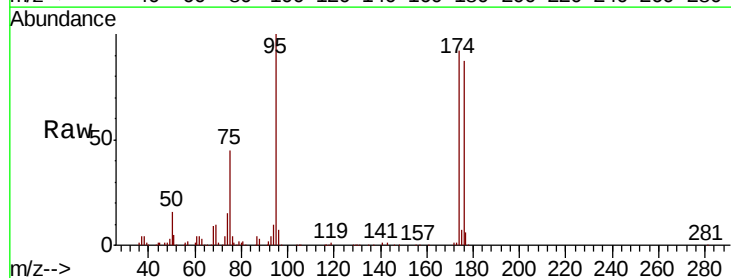


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

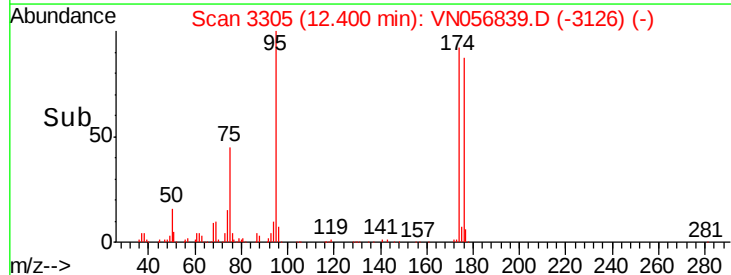
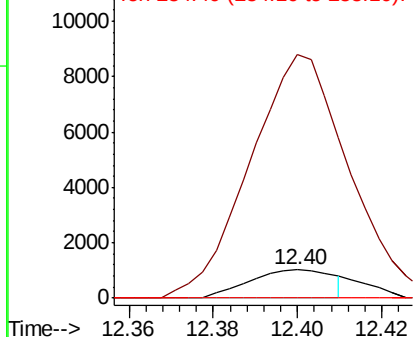


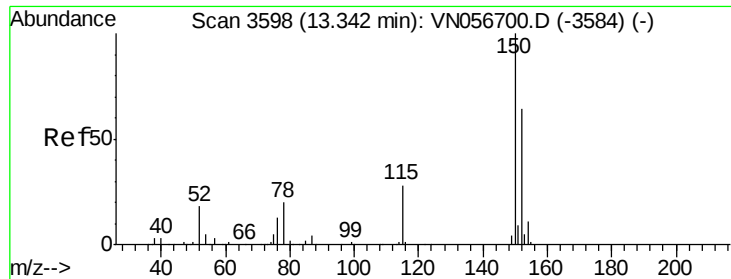
#71
Bromoform
Concen: 0.501 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion:173 Resp: 1422
Ion Ratio Lower Upper
173 100
175 834.7 23.8 71.4#
254 0.0 0.0 0.0



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



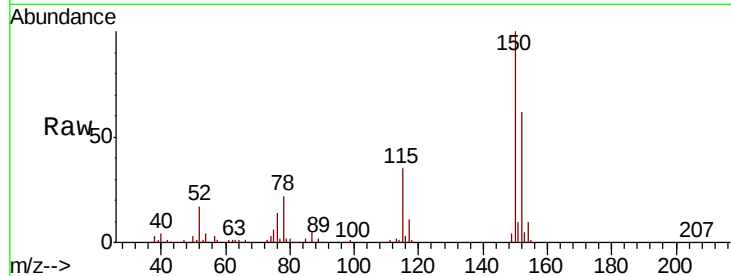


#72

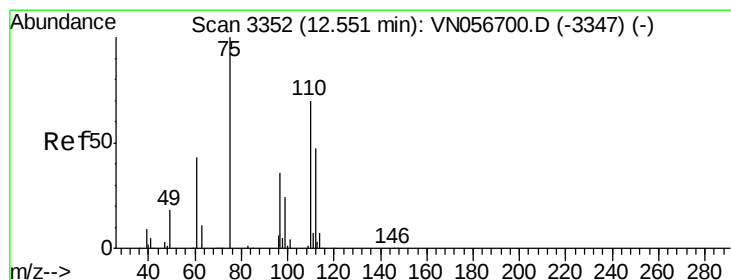
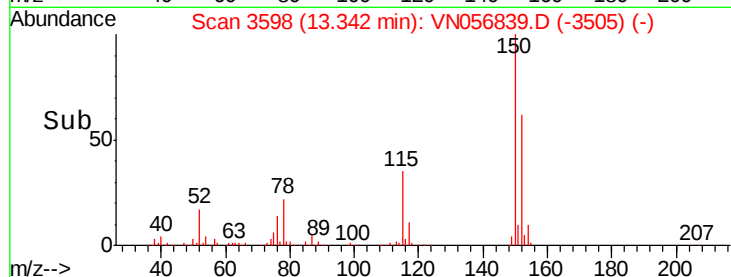
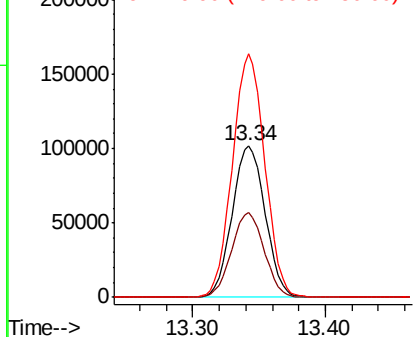
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 176070
Ion Ratio Lower Upper
152 100
115 55.0 28.2 84.7
150 157.6 0.0 345.8



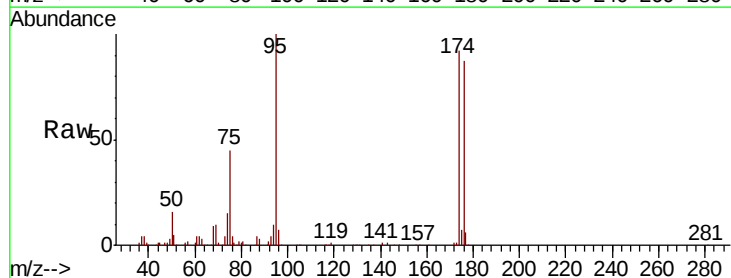
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



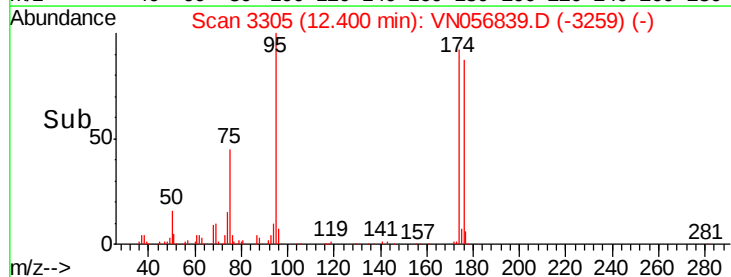
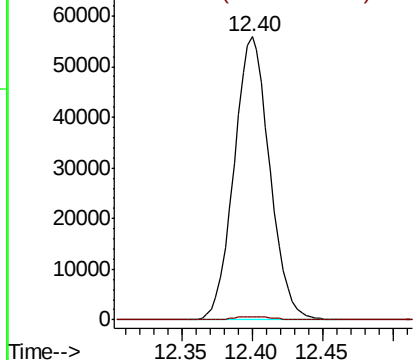
#76

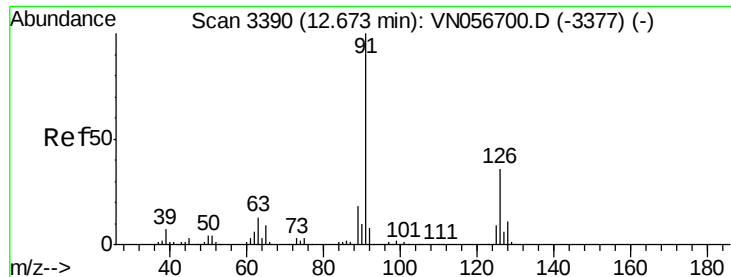
1,2,3-Trichloropropane
Concen: 25.627 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion: 75 Resp: 98686
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.06 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

Instrument :

MSVOA_N

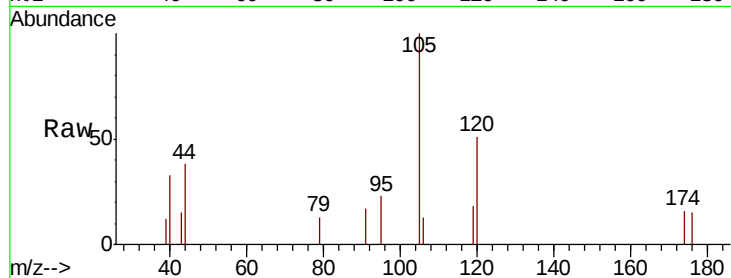
ClientSampled :

Tot Ion: 91 Resp: 122

Ion Ratio Lower Upper

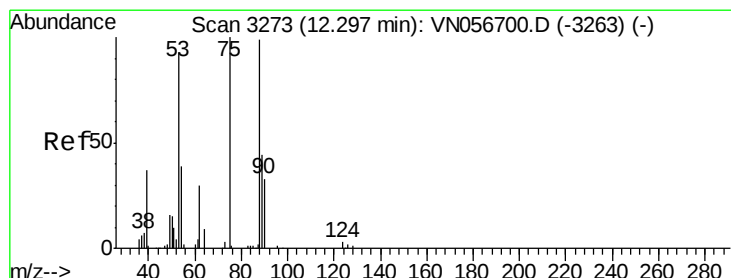
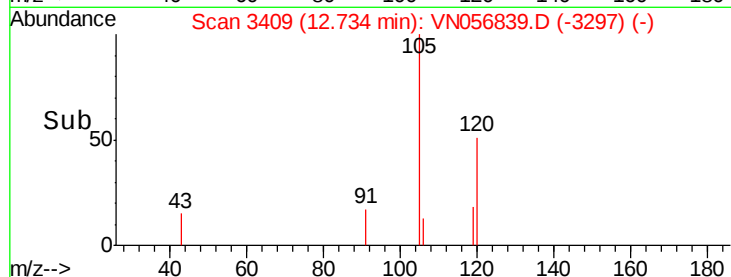
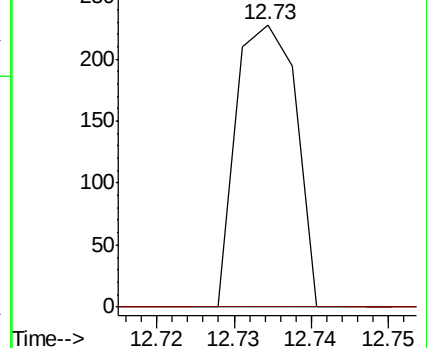
91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 79.143 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056839.D

Acq: 19 Jul 2019 18:00

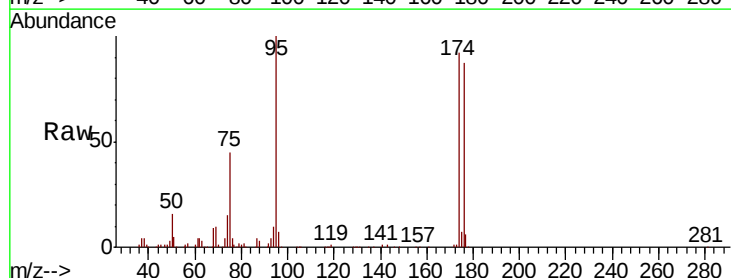
Tgt Ion: 75 Resp: 98686

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

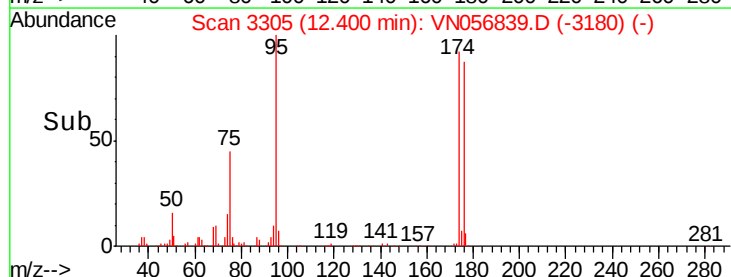
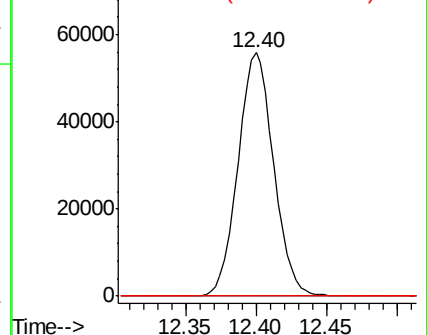
89 0.0 36.2 54.2#

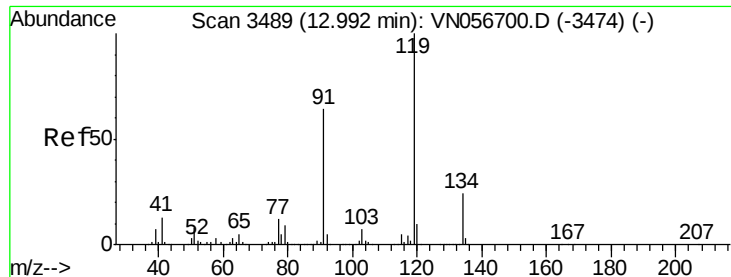


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

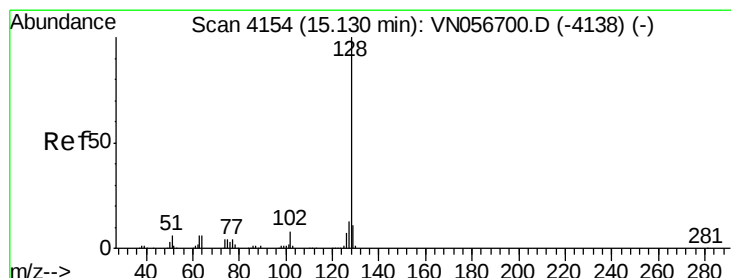
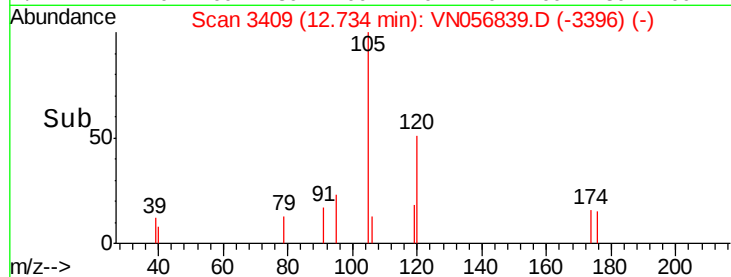
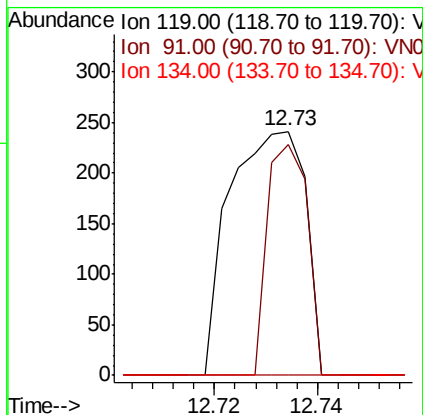
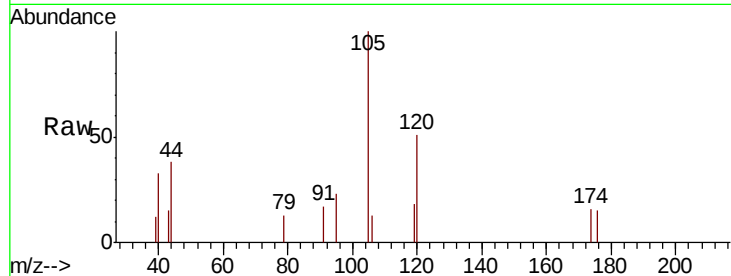




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.73 min Scan# 3409
Delta R.T. -0.26 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:119 Resp: 244
Ion Ratio Lower Upper
119 100
91 50.0 31.8 95.4
134 0.0 13.0 38.9#



#95
Naphthalene
Concen: 4.758 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN056839.D
Acq: 19 Jul 2019 18:00

Tgt Ion:128 Resp: 2411
Ion Ratio Lower Upper
128 100
127 7.1 10.3 15.5#
129 1.2 8.7 13.1#

