

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071919\
 Data File : VN056845.D
 Acq On : 19 Jul 2019 20:20
 Operator : JC/SP
 Sample : K3887-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AOC-7(2)

Quant Time: Jul 19 23:18:36 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

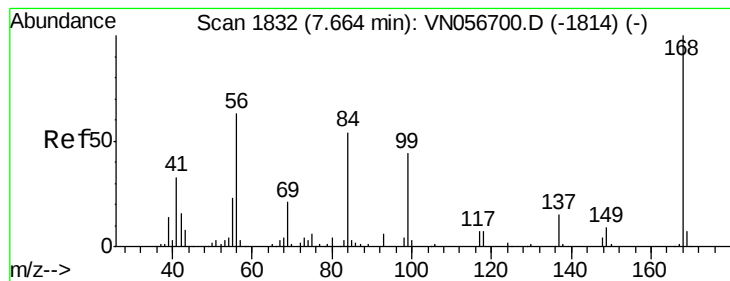
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	247643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	449928	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	504264	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	177411	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	147095	53.70	ug/l	0.00
Spiked Amount			Recovery	=	107.40%	
35) Dibromofluoromethane	7.59	113	135327	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	10.09	98	576131	53.28	ug/l	0.00
Spiked Amount			Recovery	=	106.56%	
62) 4-Bromofluorobenzene	12.40	95	214588	58.84	ug/l	0.00
Spiked Amount			Recovery	=	117.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	15772	12.494	ug/l	99
18) Methyl Acetate	4.33	43	7810	1.817	ug/l	98
20) Methylene Chloride	4.55	84	5242	1.900	ug/l	95
25) 2-Butanone	6.85	43	4836	2.620	ug/l	94
29) Tetrahydrofuran	7.23	42	779	0.647	ug/l #	45
31) Cyclohexane	7.66	56	3794	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16165	3.883	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21867	5.600	ug/l #	16
40) Benzene	8.04	78	4619	0.362	ug/l	96
43) Isopropyl Acetate	8.17	43	15614	2.420	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1354	0.399	ug/l #	45
48) Methyl methacrylate	9.18	41	8160	2.616	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	3672	0.879	ug/l	89
52) Toluene	10.15	92	1879	0.248	ug/l	84
54) cis-1,3-Dichloropropene	9.90	75	41237	8.533	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	8271	1.594	ug/l #	42
59) 2-Hexanone	10.76	43	108227	36.099	ug/l #	52
71) Bromoform	12.40	173	1239	0.429	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	99536	25.652	ug/l #	100
79) 2-Chlorotoluene	12.40	91	550	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	99536	79.222	ug/l #	13
95) Naphthalene	15.14	128	5112	5.015	ug/l #	94

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

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ALS Vial : 28 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

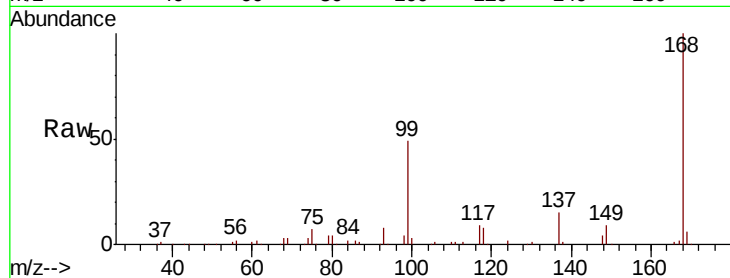
AOC-7(2)

Tot Ion:168 Resp: 247643

Ion Ratio Lower Upper

168 100

99 48.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

100000

80000

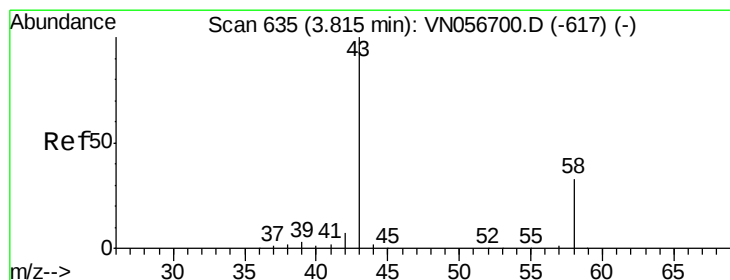
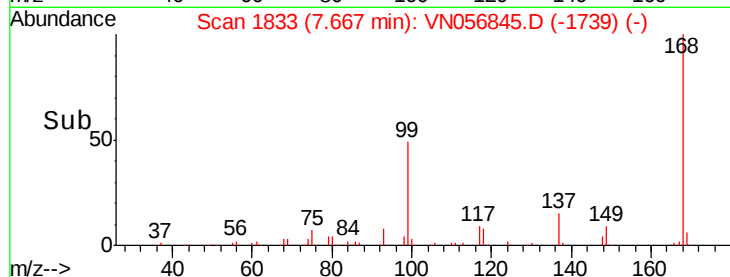
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 12.494 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056845.D

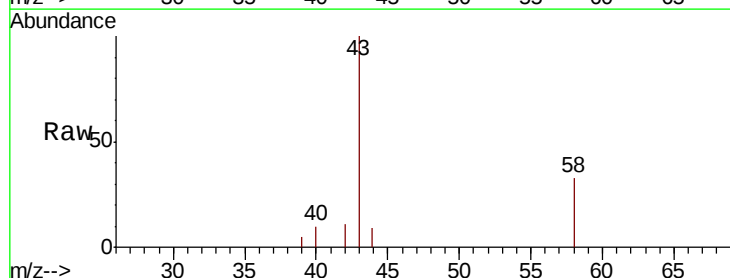
Acq: 19 Jul 2019 20:20

Tgt Ion: 43 Resp: 15772

Ion Ratio Lower Upper

43 100

58 32.6 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

6000

5000

4000

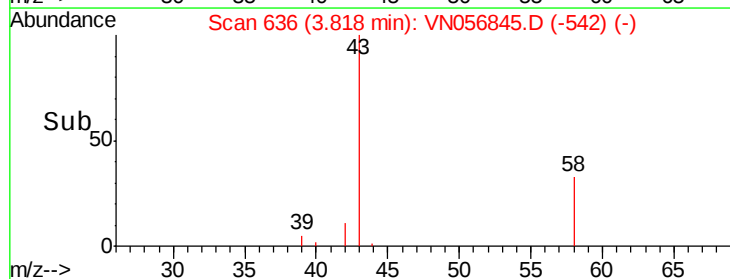
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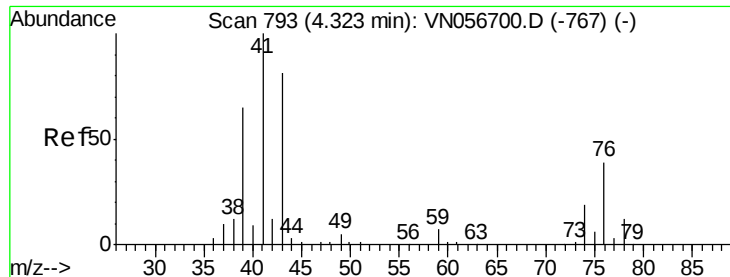
2000

1000

0

Time-->

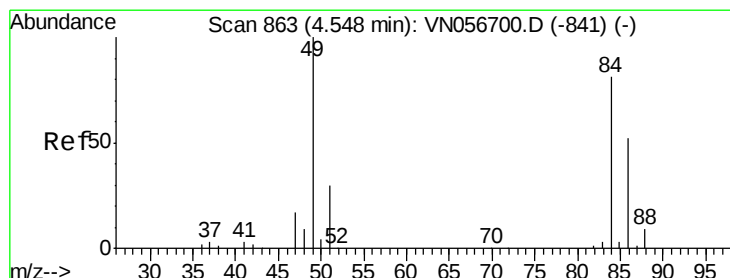
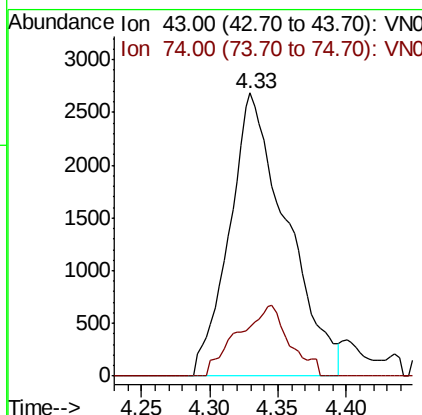
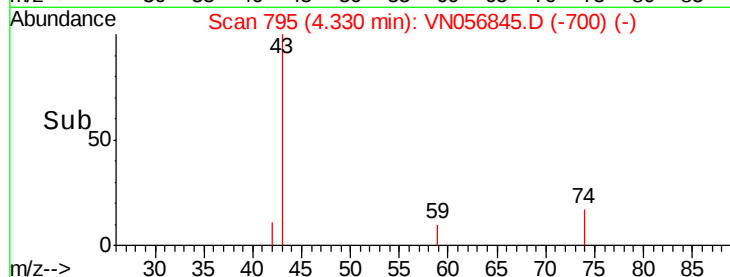
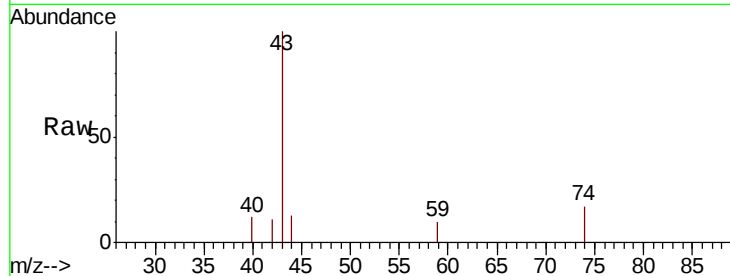




#18
Methyl Acetate
Concen: 1.817 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

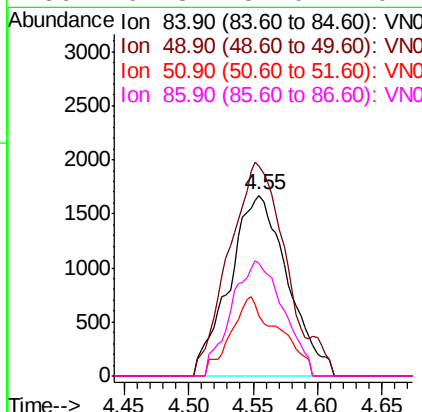
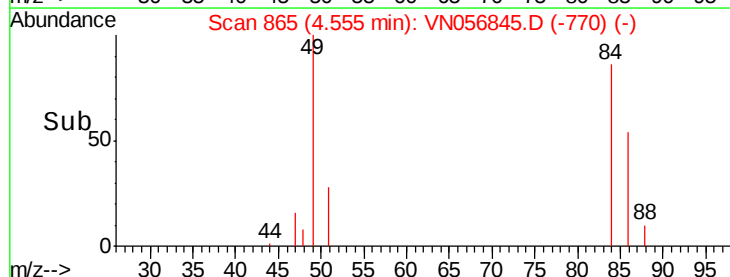
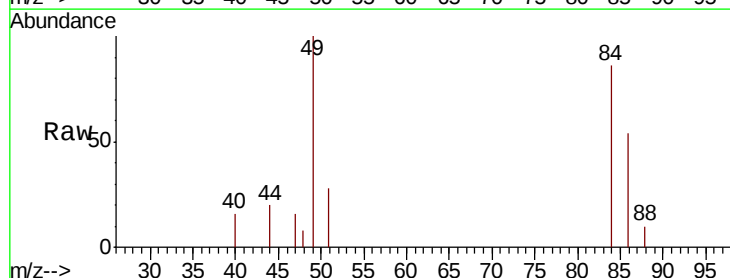
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MSVOA_N
ClientSampled :
AOC-7(2)

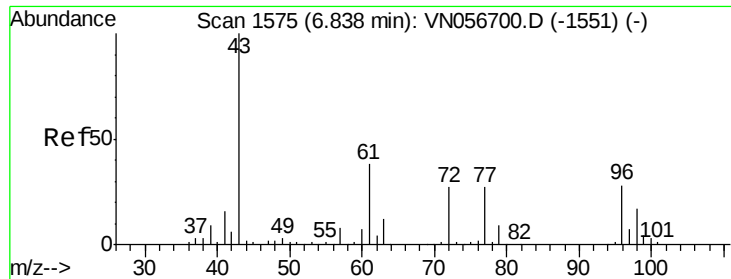
Tot Ion: 43 Resp: 7810
Ion Ratio Lower Upper
43 100
74 22.5 18.9 28.3



#20
Methylene Chloride
Concen: 1.900 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Tgt Ion: 84 Resp: 5242
Ion Ratio Lower Upper
84 100
49 116.1 98.2 147.4
51 33.1 29.6 44.4
86 62.3 51.0 76.4

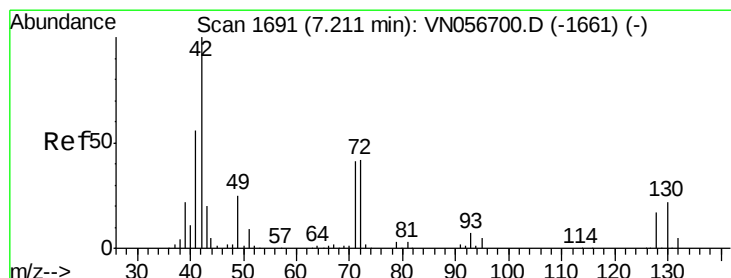
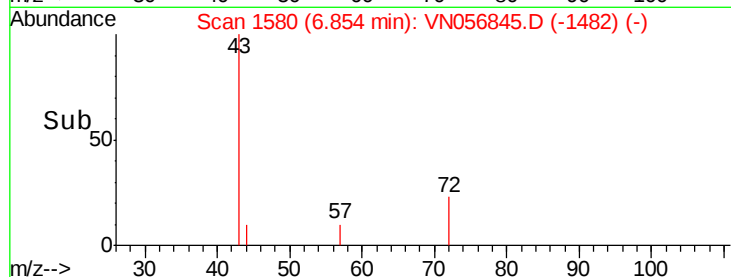
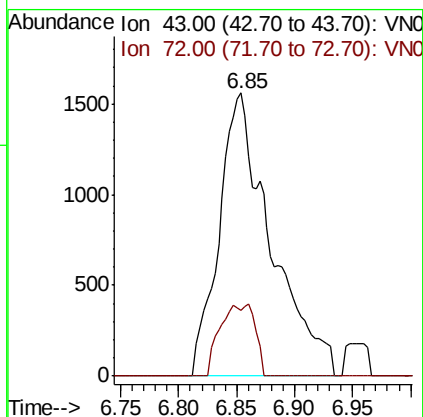
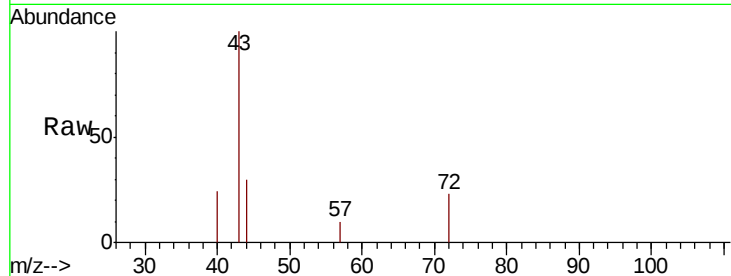




#25
2-Butanone
Concen: 2.620 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

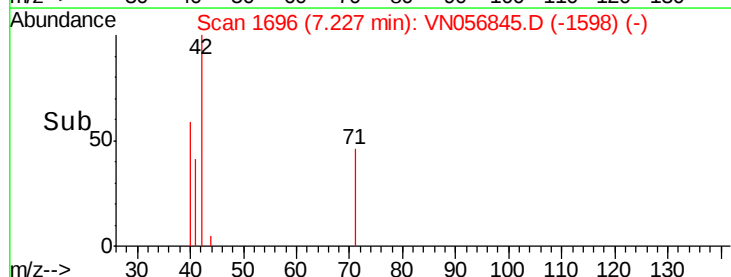
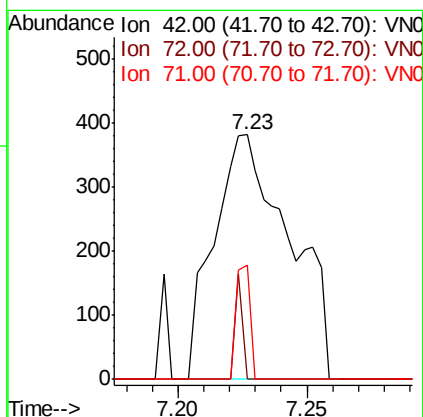
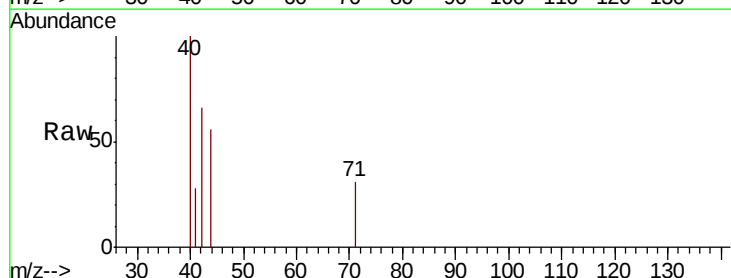
Instrument :
MSVOA_N
ClientSampled :
AOC-7(2)

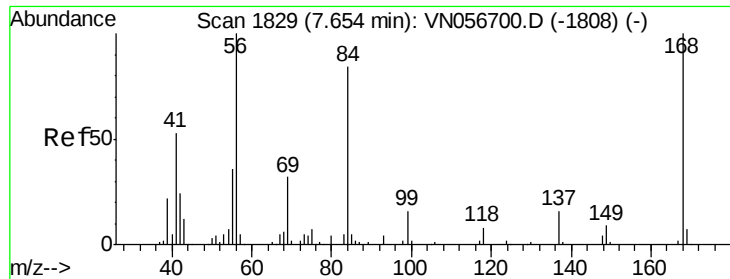
Tot Ion: 43 Resp: 4836
Ion Ratio Lower Upper
43 100
72 23.3 21.2 31.8



#29
Tetrahydrofuran
Concen: 0.647 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Tgt Ion: 42 Resp: 779
Ion Ratio Lower Upper
42 100
72 4.1 33.5 50.3#
71 8.6 31.8 47.8#

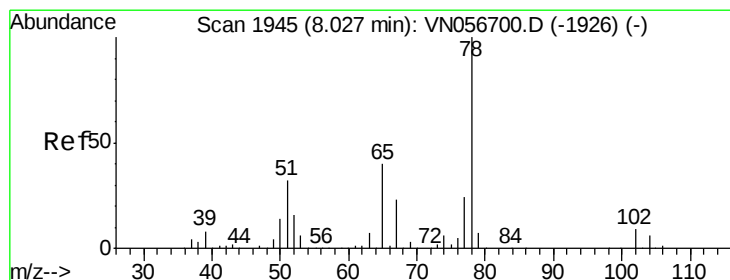
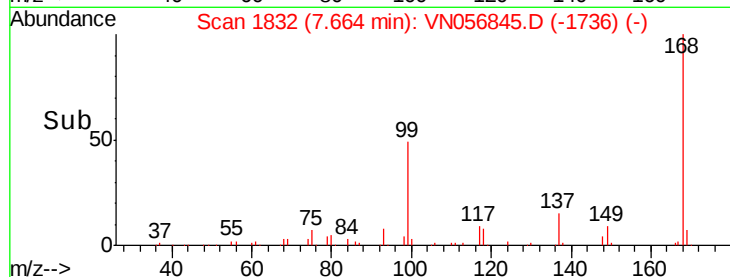
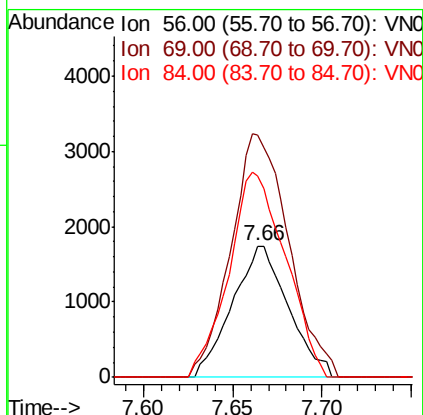
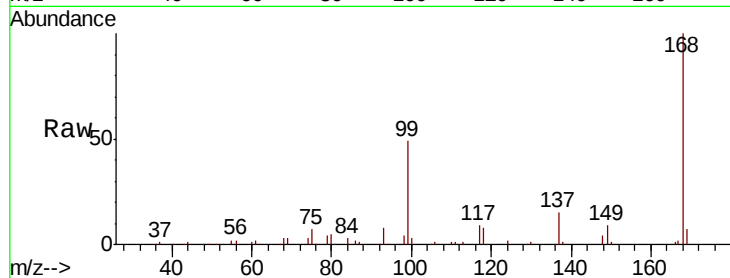




#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

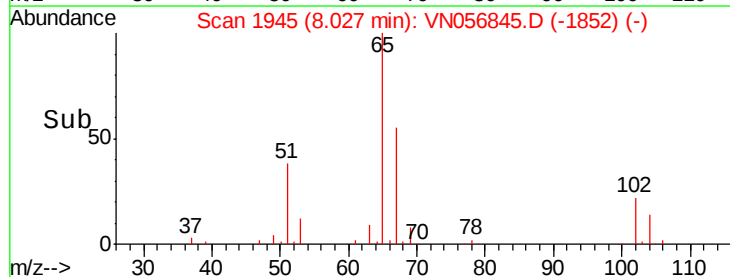
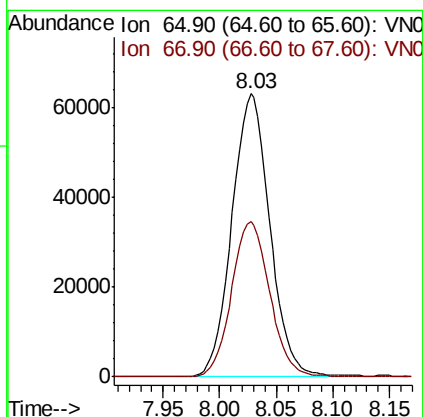
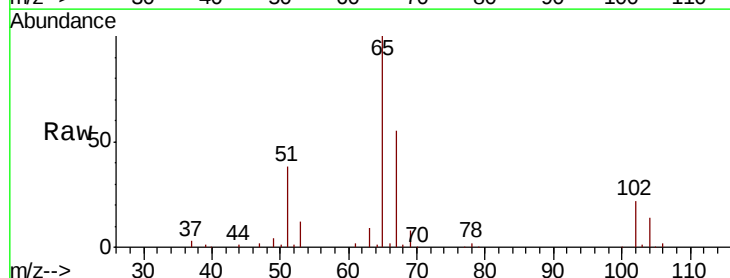
Instrument :
MSVOA_N
ClientSampled :
AOC-7(2)

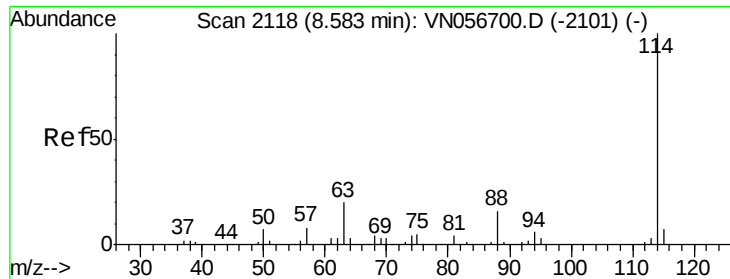
Tot Ion: 56 Resp: 3794
Ion Ratio Lower Upper
56 100
69 184.6 25.8 38.8#
84 153.9 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 53.699 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Tgt Ion: 65 Resp: 147095
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.0

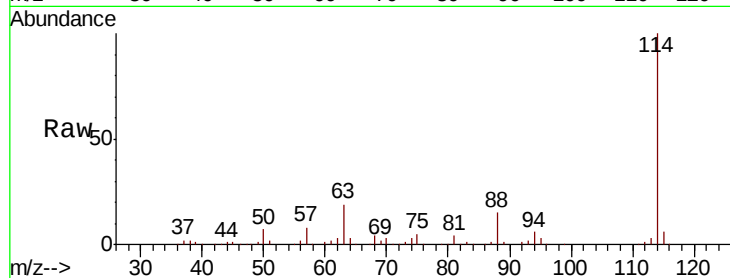




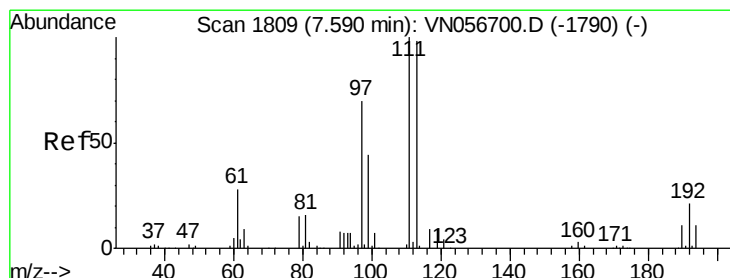
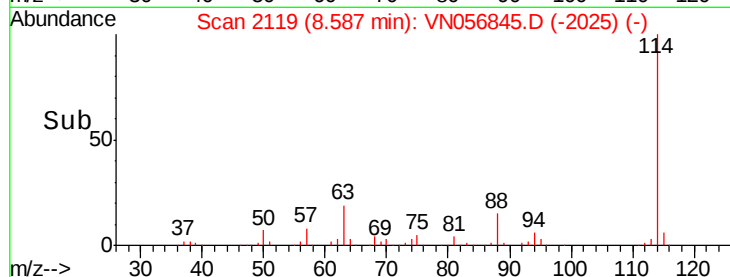
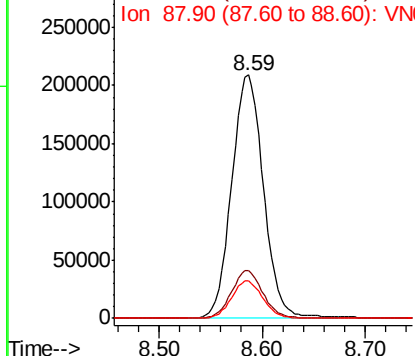
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

Instrument :
 MSVOA_N
 ClientSampled :
 AOC-7(2)

Tot Ion:114 Resp: 449928
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.4
 88 15.4 0.0 31.2

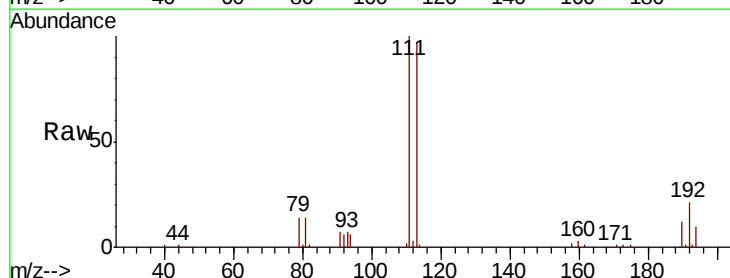


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

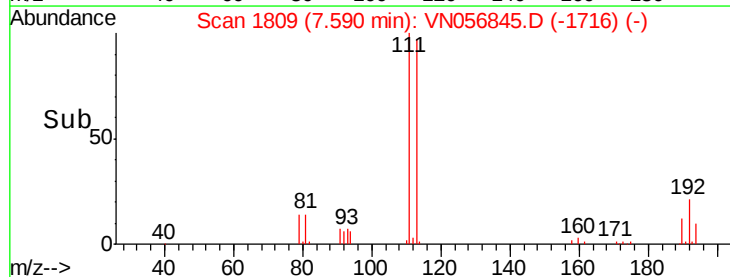
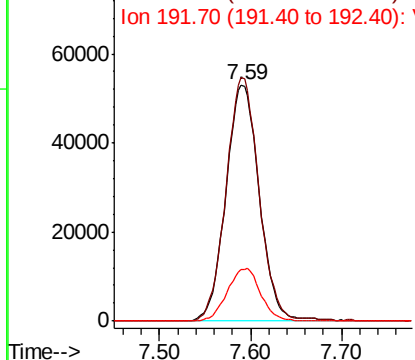


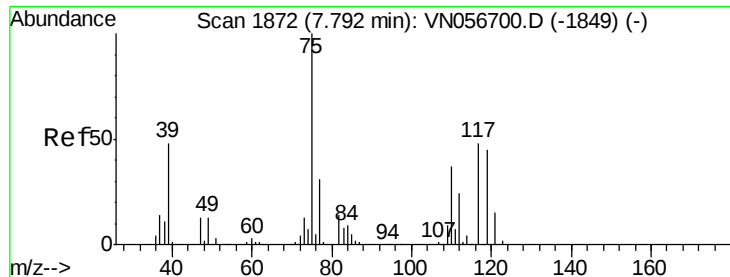
#35
 Dibromofluoromethane
 Concen: 48.331 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

Tgt Ion:113 Resp: 135327
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.8 122.6
 192 22.1 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

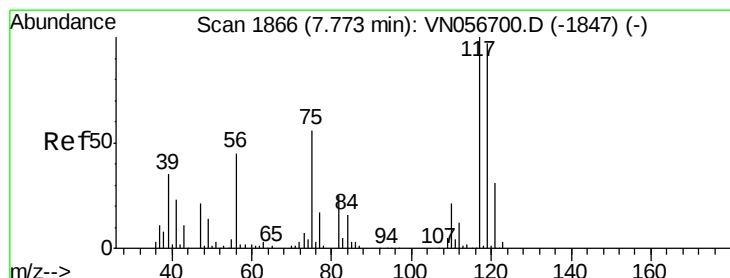
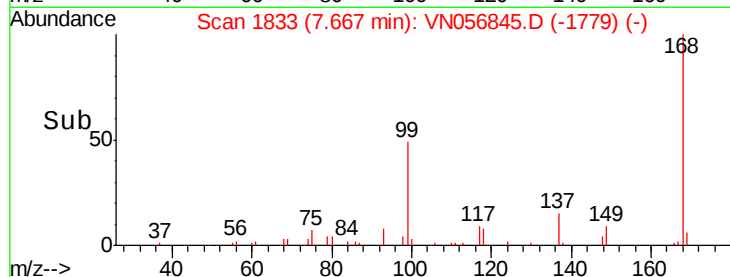
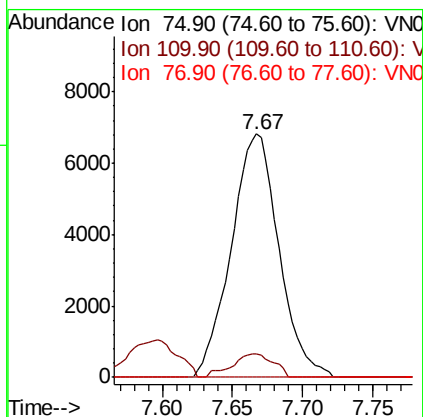
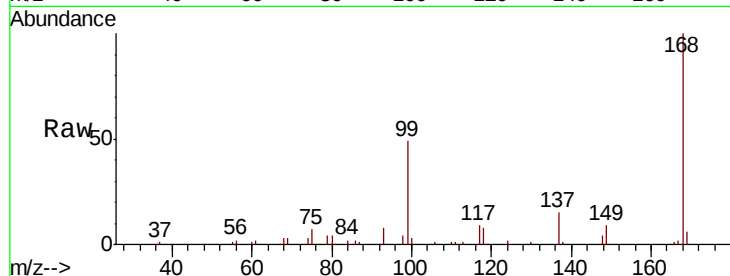




#36
 1,1-Dichloropropene
 Concen: 3.883 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

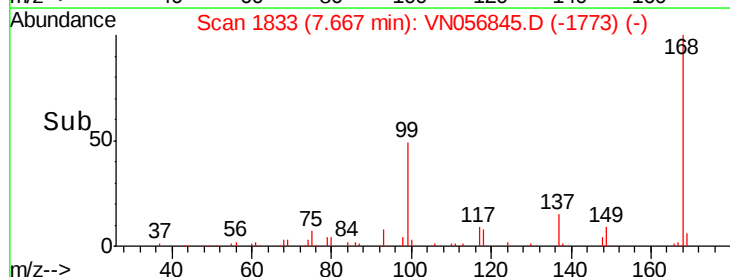
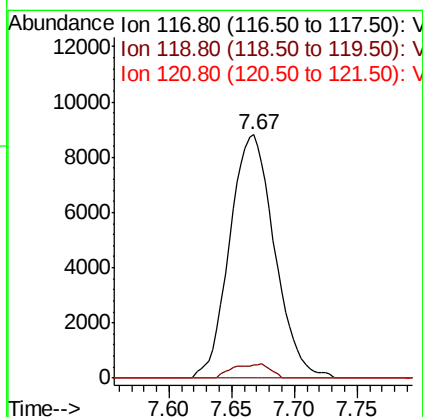
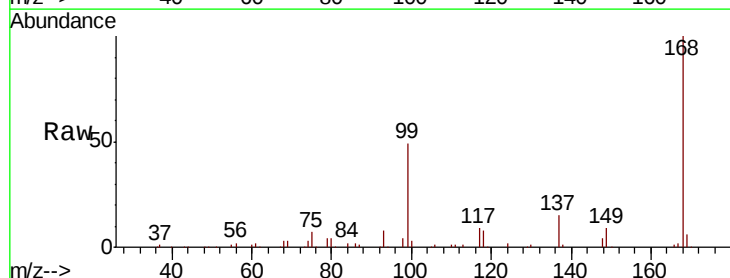
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 AOC-7(2)

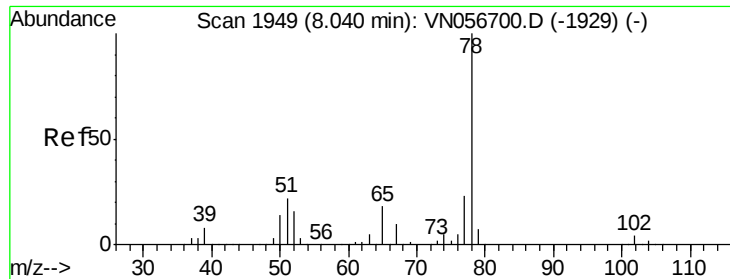
Tot Ion	75	Resp	16165
Ion Ratio	100	Lower	Upper
75	100		
110	8.4	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.600 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

Tgt Ion	117	Resp	21867
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.2	77.5	116.3#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 0.362 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampled :

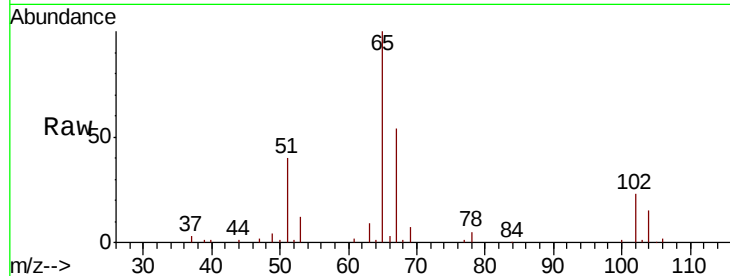
AOC-7(2)

Tot Ion: 78 Resp: 4619

Ion Ratio Lower Upper

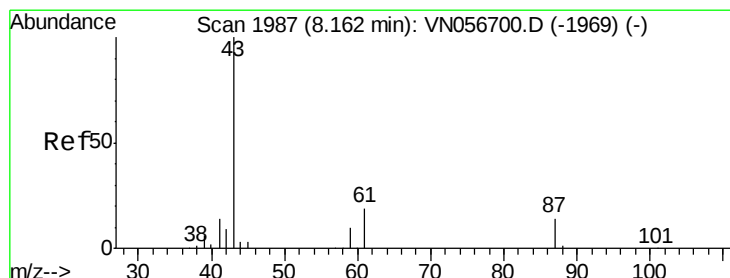
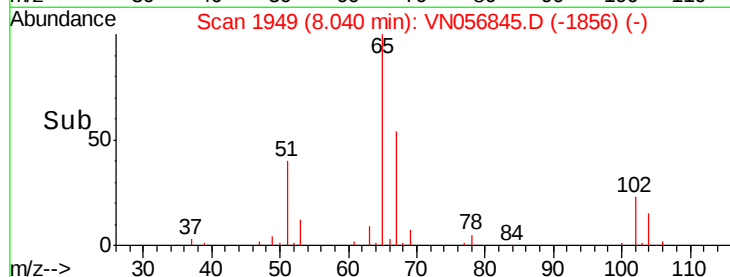
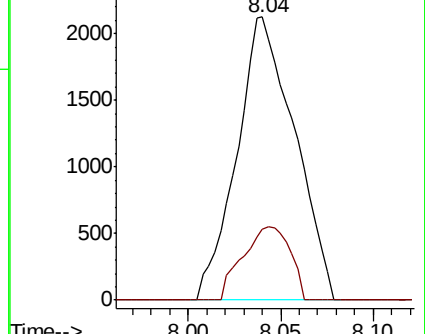
78 100

77 24.9 18.6 27.8



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#43

Isopropyl Acetate

Concen: 2.420 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

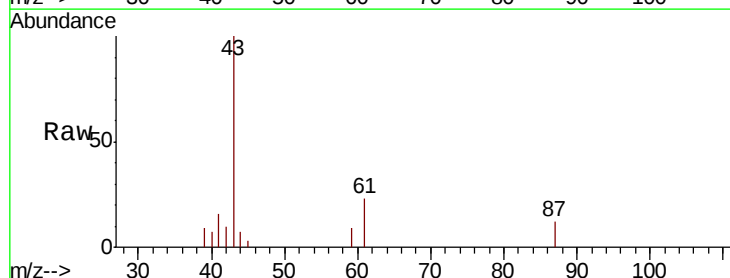
Tgt Ion: 43 Resp: 15614

Ion Ratio Lower Upper

43 100

61 21.1 22.3 33.5#

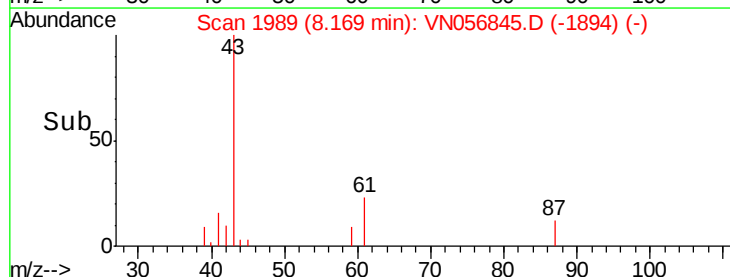
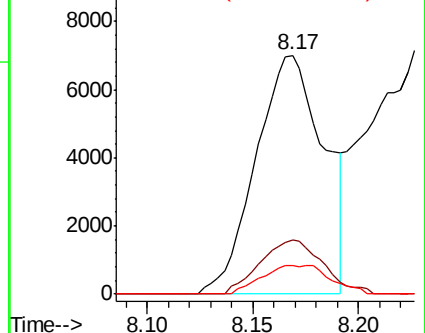
87 12.1 11.1 16.7

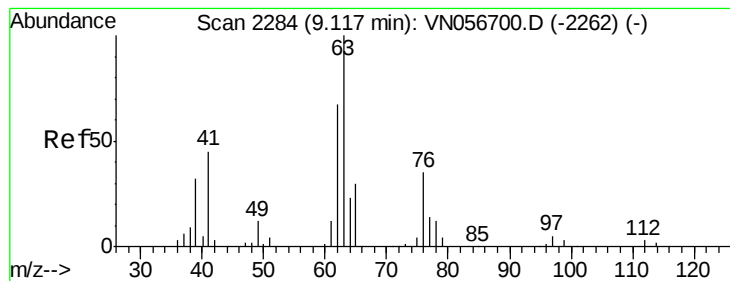


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.399 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

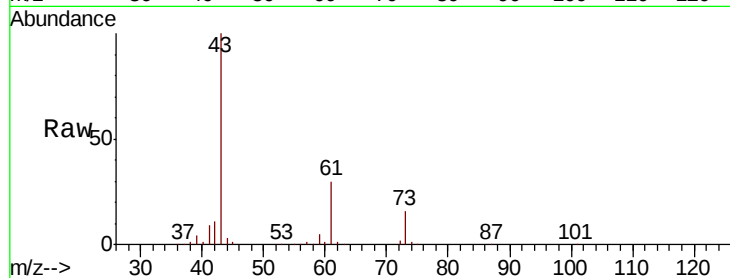
AOC-7(2)

Tot Ion: 63 Resp: 1354

Ion Ratio Lower Upper

63 100

65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.27

800

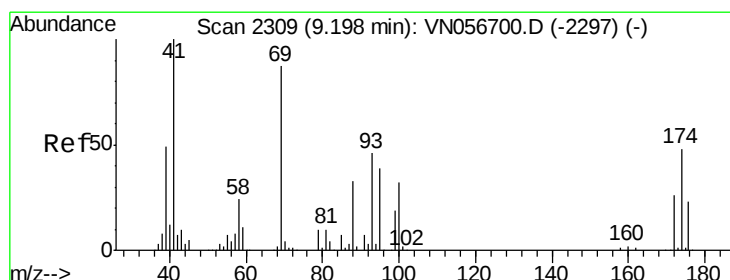
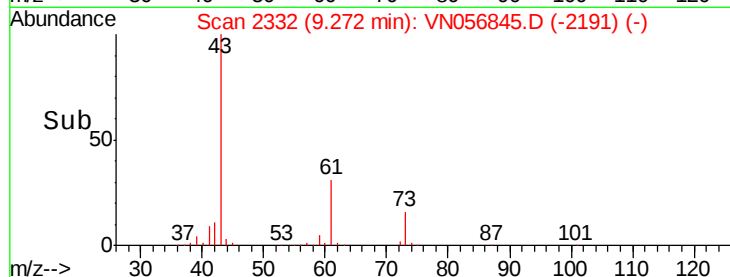
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 2.616 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.01 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

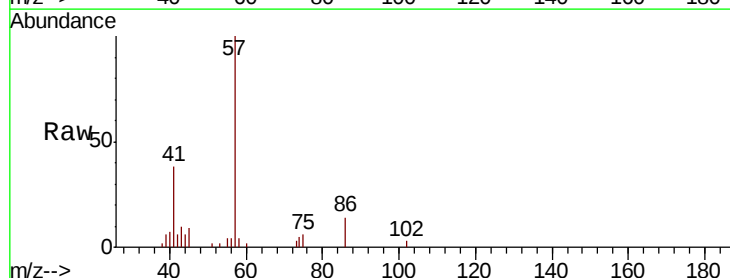
Tgt Ion: 41 Resp: 8160

Ion Ratio Lower Upper

41 100

69 0.0 71.4 107.0#

39 0.0 41.2 61.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

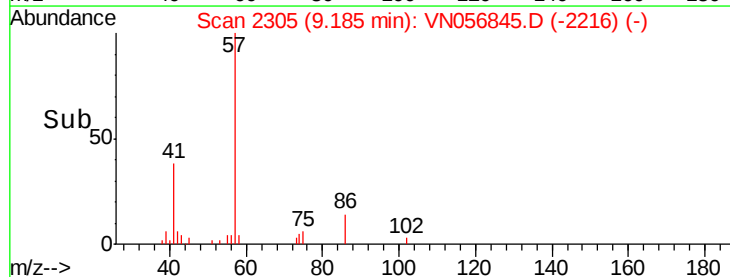
60000

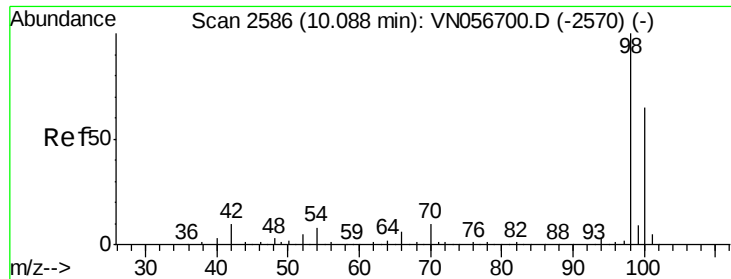
40000

20000

0

Time-->





#50

Toluene-d8

Concen: 53.275 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

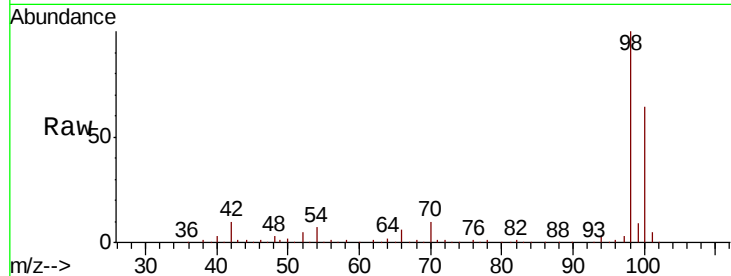
AOC-7(2)

Tot Ion: 98 Resp: 576131

Ion Ratio Lower Upper

98 100

100 64.5 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

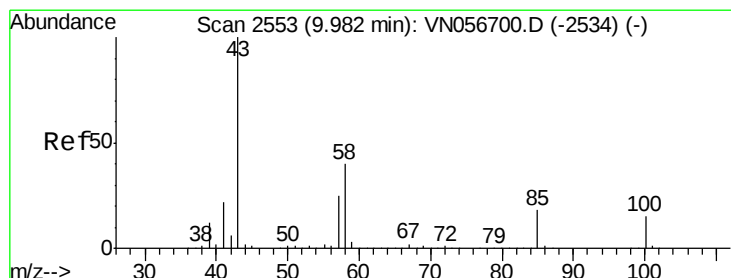
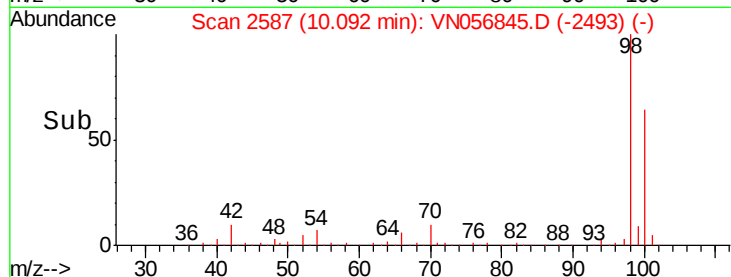
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.879 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056845.D

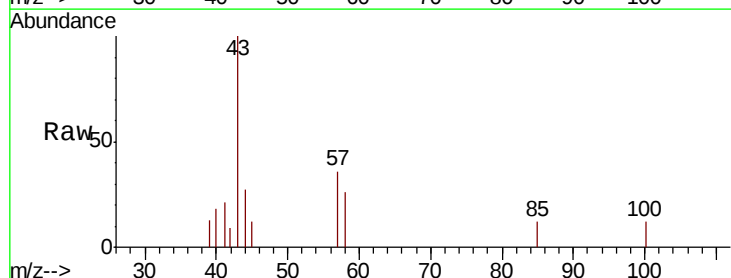
Acq: 19 Jul 2019 20:20

Tgt Ion: 43 Resp: 3672

Ion Ratio Lower Upper

43 100

58 33.2 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) (-)

9.99

4000

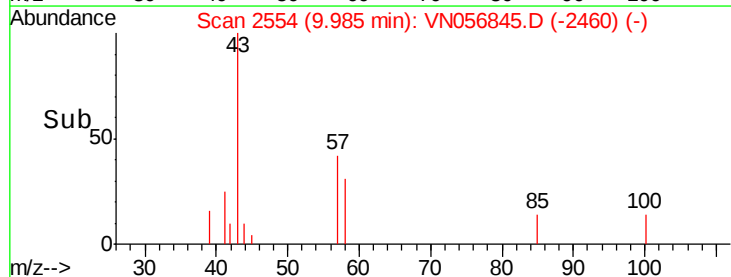
3000

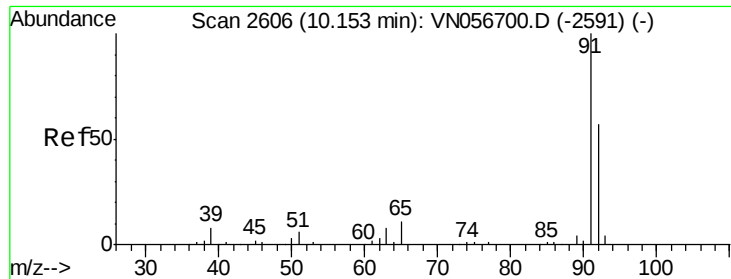
2000

1000

0

Time-->





#52

Toluene

Concen: 0.248 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampleId :

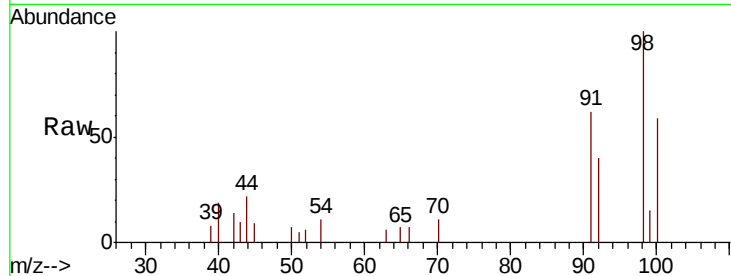
AOC-7(2)

Tot Ion: 92 Resp: 1879

Ion Ratio Lower Upper

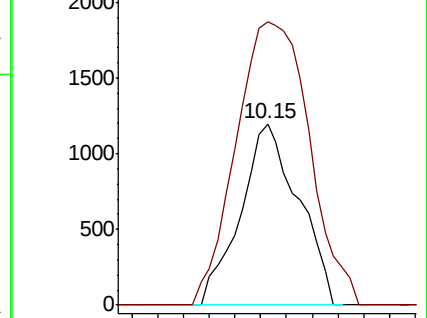
92 100

91 197.1 139.9 209.9

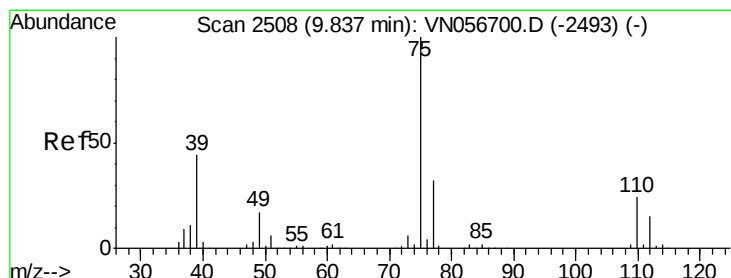
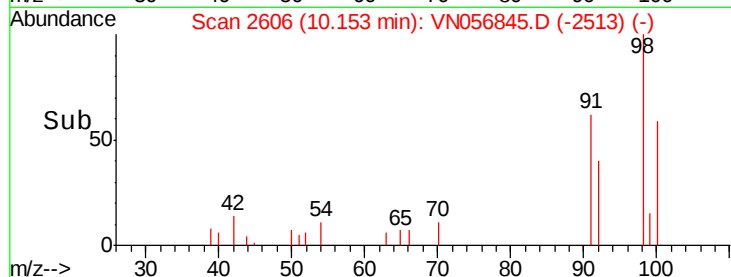


Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 8.533 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

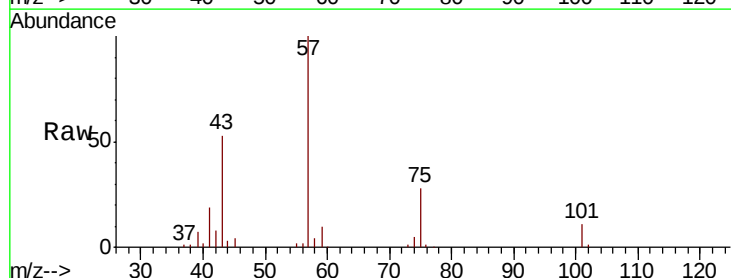
Tgt Ion: 75 Resp: 41237

Ion Ratio Lower Upper

75 100

77 0.7 26.0 39.0#

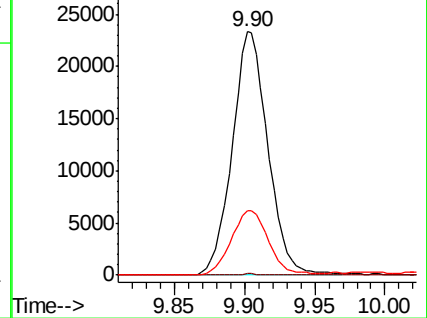
39 26.3 35.1 52.7#



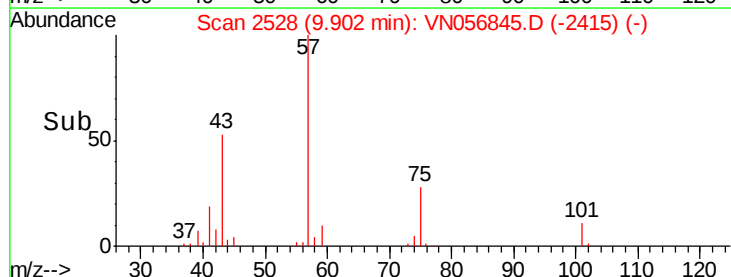
Abundance Ion 74.90 (74.60 to 75.60): VN0

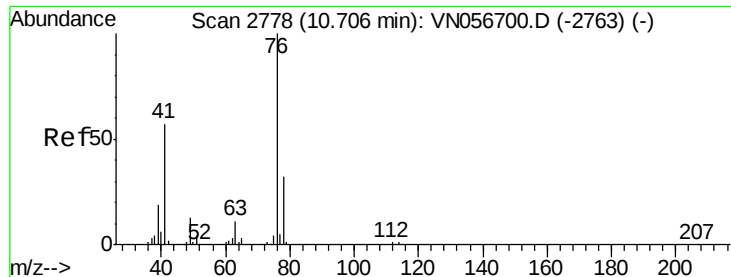
Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time-->

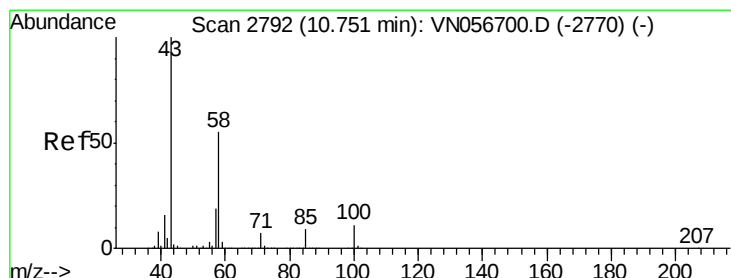
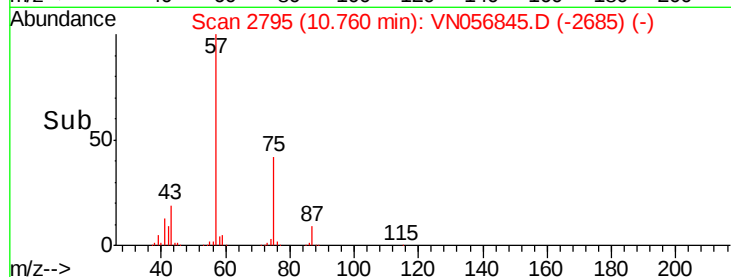
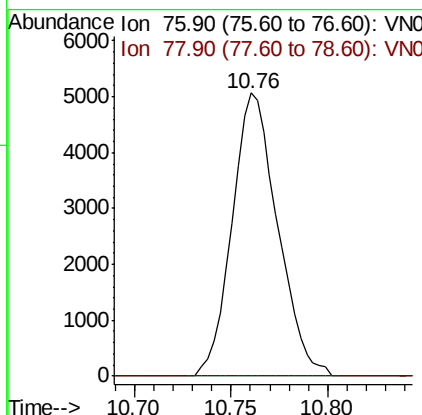
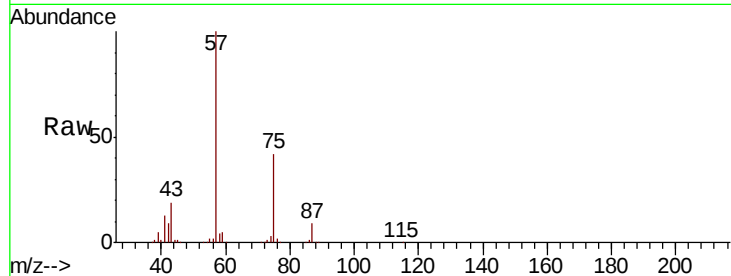




#57
 1,3-Dichloropropane
 Concen: 1.594 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

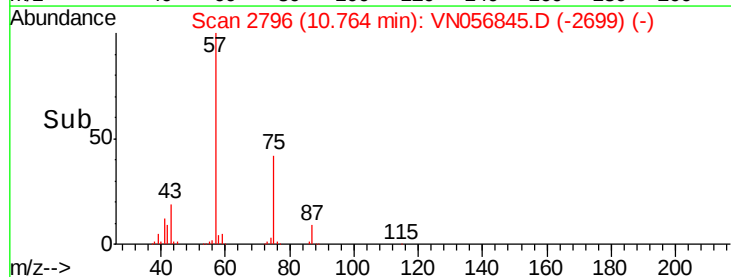
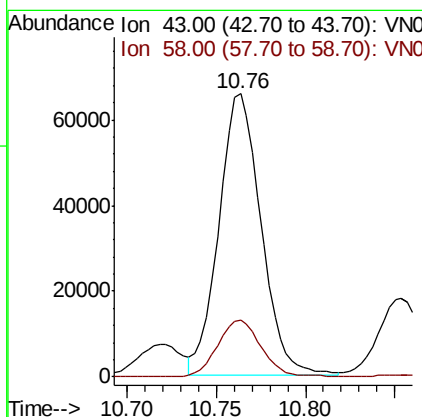
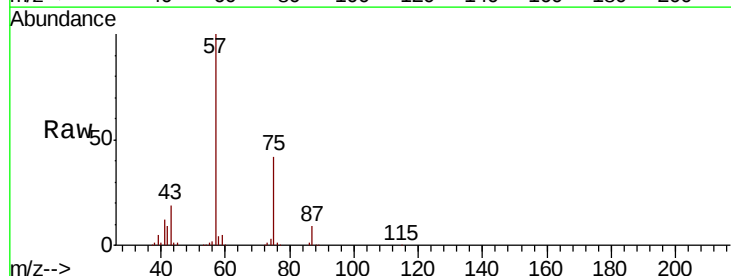
Instrument :
 MSVOA_N
 ClientSampled :
 AOC-7(2)

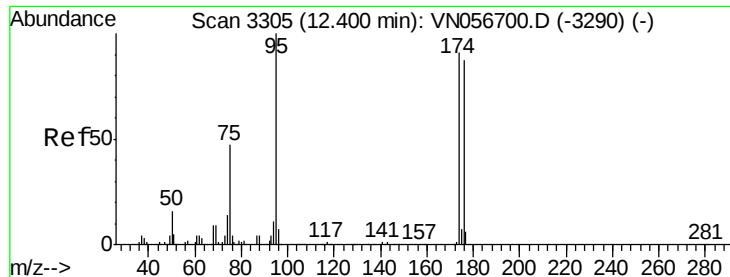
Tot Ion: 76 Resp: 8271
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 36.099 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

Tgt Ion: 43 Resp: 108227
 Ion Ratio Lower Upper
 43 100
 58 20.9 27.9 83.6#

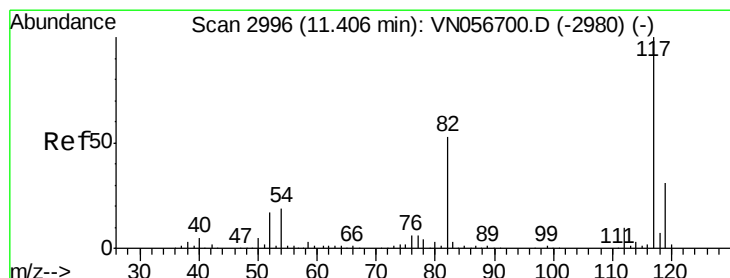
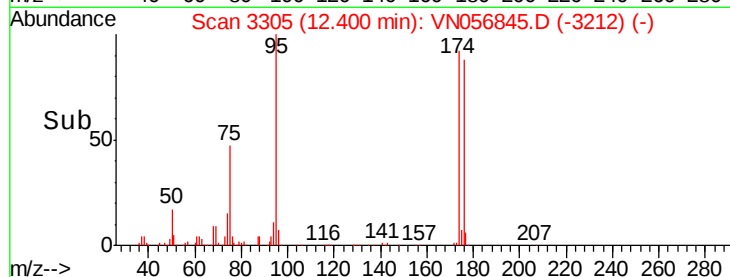
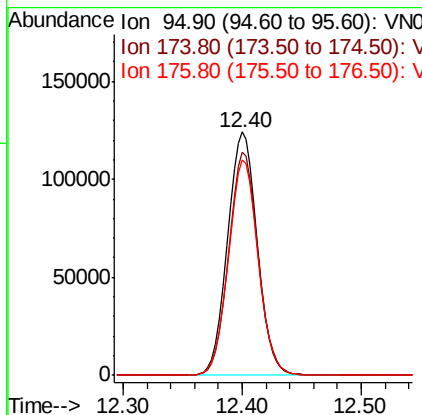
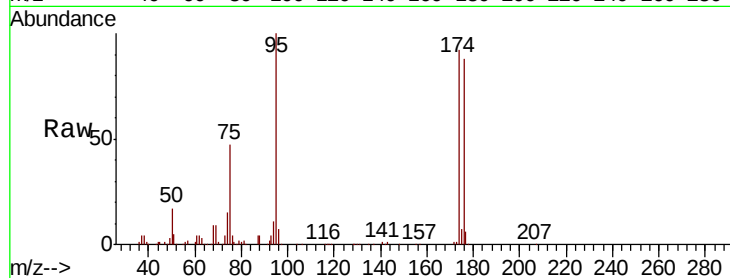




#62
4-Bromofluorobenzene
Concen: 58.841 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

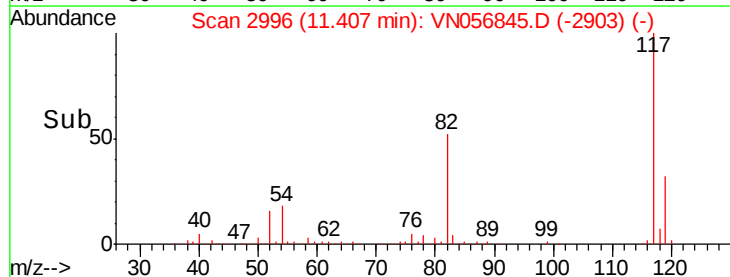
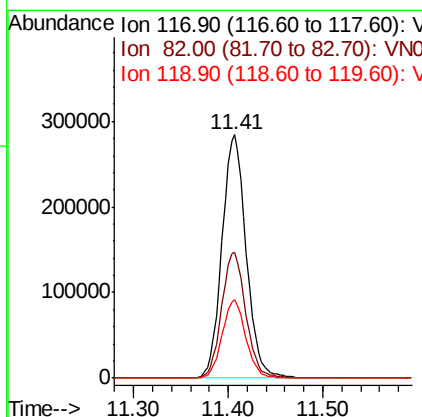
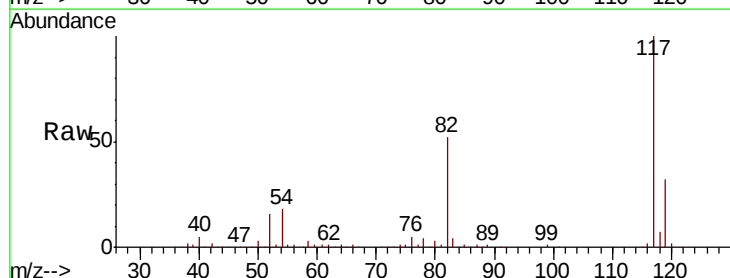
Instrument :
MSVOA_N
ClientSampleId :
AOC-7(2)

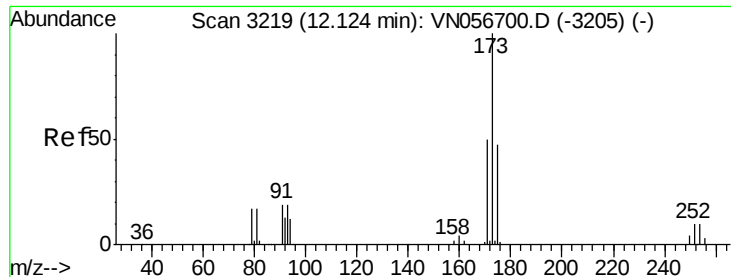
Tot Ion: 95 Resp: 214588
Ion Ratio Lower Upper
95 100
174 90.7 0.0 180.0
176 88.4 0.0 173.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Tgt Ion: 117 Resp: 504264
Ion Ratio Lower Upper
117 100
82 51.7 42.2 63.2
119 32.0 25.2 37.8





#71

Bromoform

Concen: 0.429 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN056845.D

Acq: 19 Jul 2019 20:20

Instrument :

MSVOA_N

ClientSampled :

AOC-7(2)

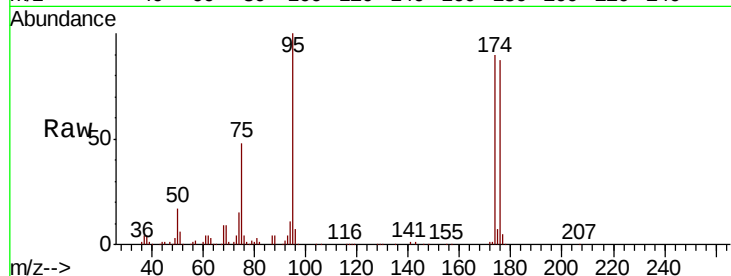
Tot Ion:173 Resp: 1239

Ion Ratio Lower Upper

173 100

175 958.4 23.8 71.4#

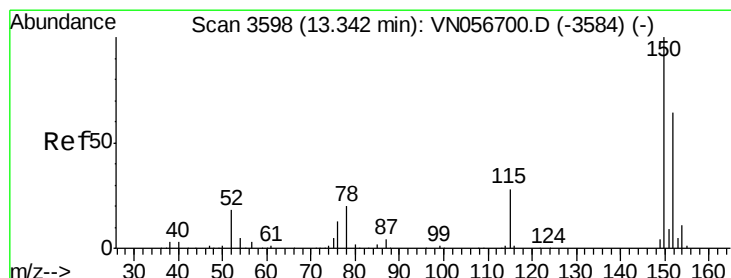
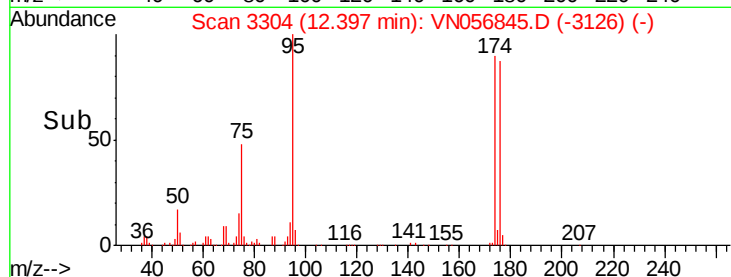
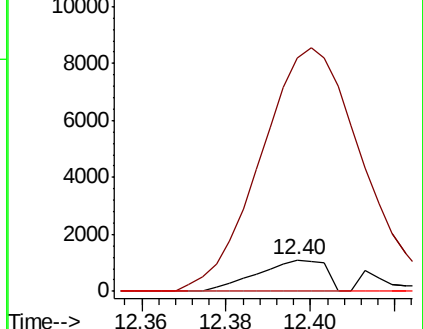
254 0.0 0.0 0.0



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: VN056845.D

Acq: 19 Jul 2019 20:20

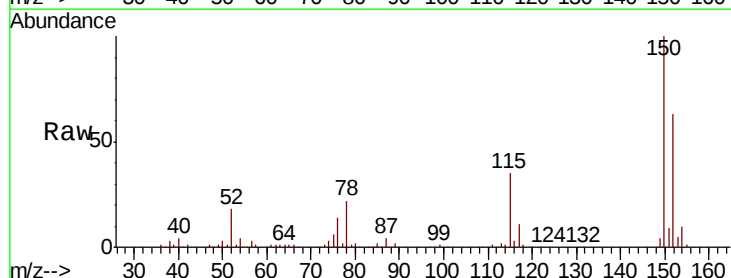
Tgt Ion:152 Resp: 177411

Ion Ratio Lower Upper

152 100

115 56.5 28.2 84.7

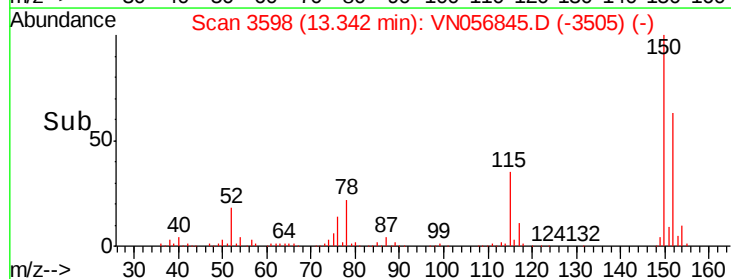
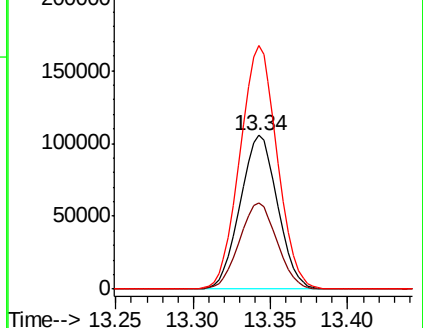
150 158.2 0.0 345.8

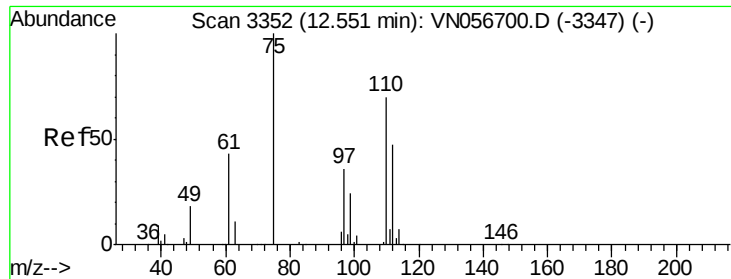


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

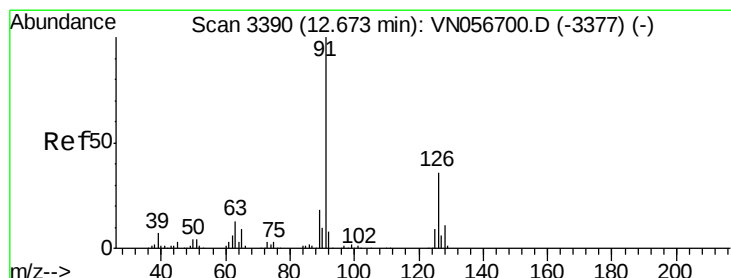
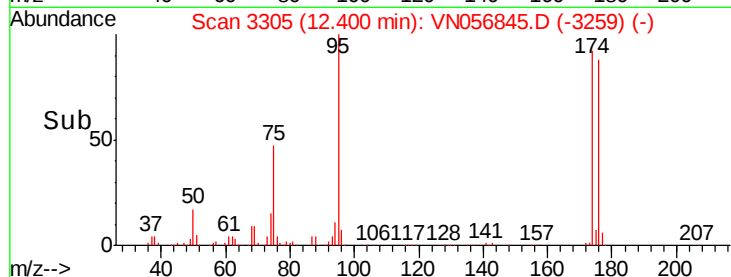
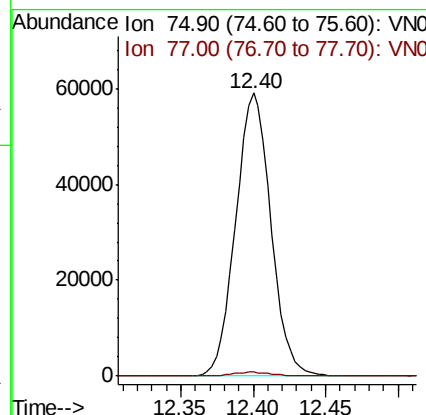
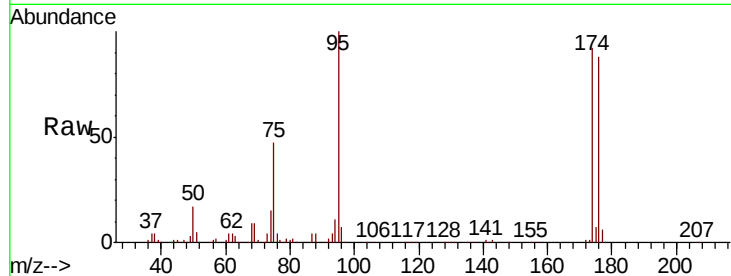




#76
 1,2,3-Trichloropropane
 Concen: 25.652 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

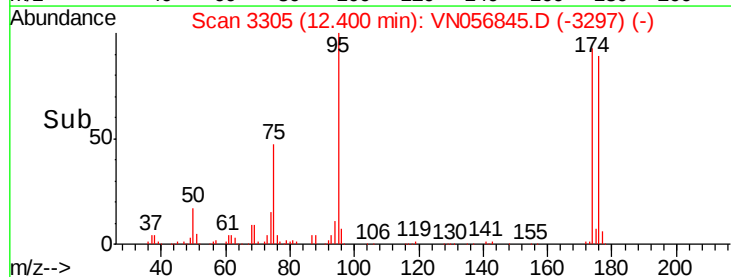
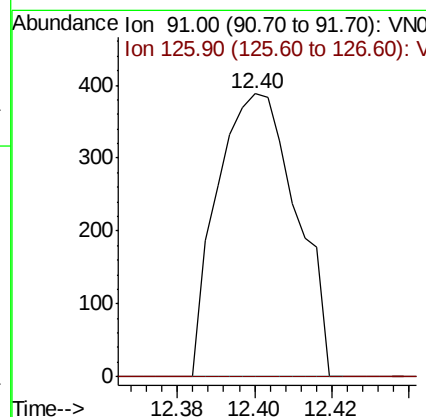
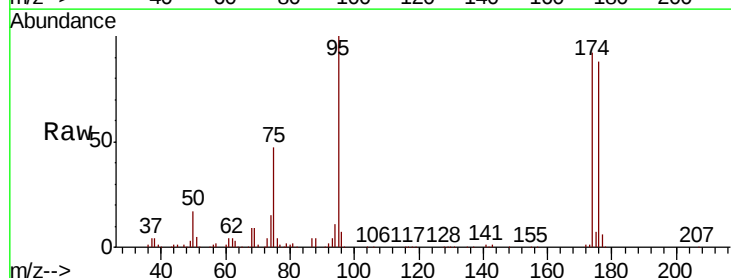
Instrument :
 MSVOA_N
 ClientSampleId :
 AOC-7(2)

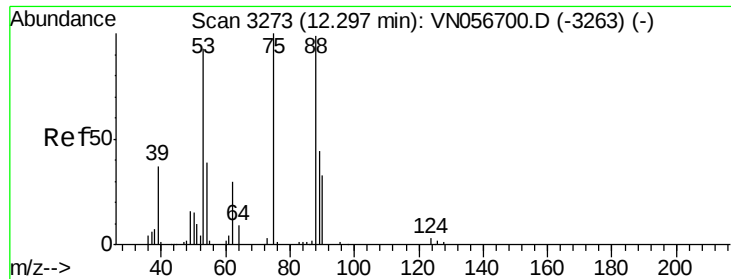
Tot Ion: 75 Resp: 99536
 Ion Ratio Lower Upper
 75 100
 77 1.5 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.27 min
 Lab File: VN056845.D
 Acq: 19 Jul 2019 20:20

Tgt Ion: 91 Resp: 550
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.9 53.7#

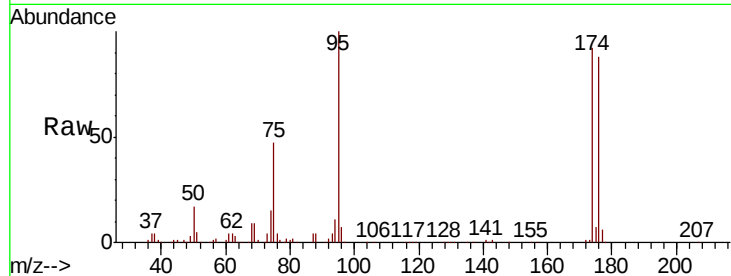




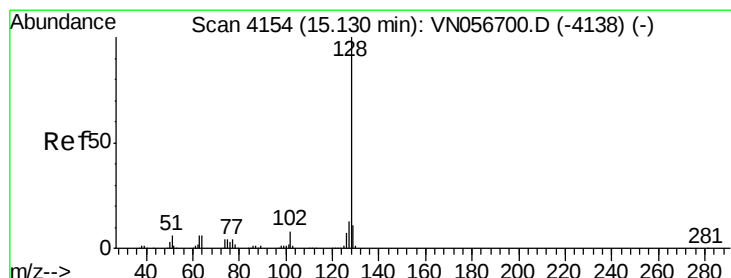
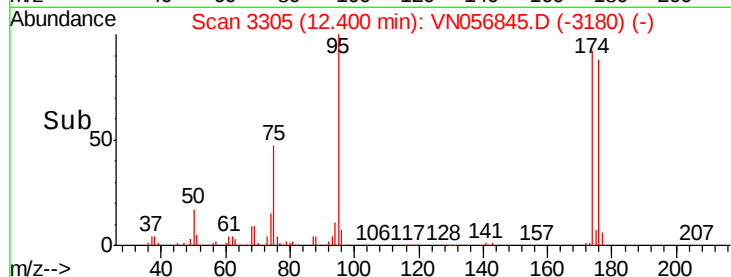
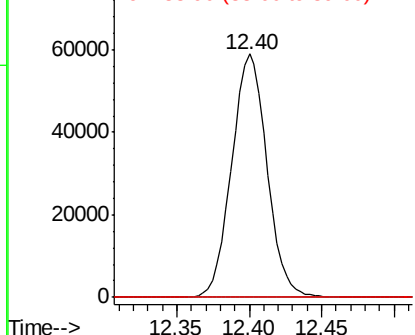
#81
trans-1,4-Dichloro-2-butene
Concen: 79.222 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Instrument :
MSVOA_N
ClientSampleId :
AOC-7(2)

Tot Ion: 75 Resp: 99536
Ion Ratio Lower Upper
75 100
53 0.0 73.7 110.5#
89 0.0 36.2 54.2#

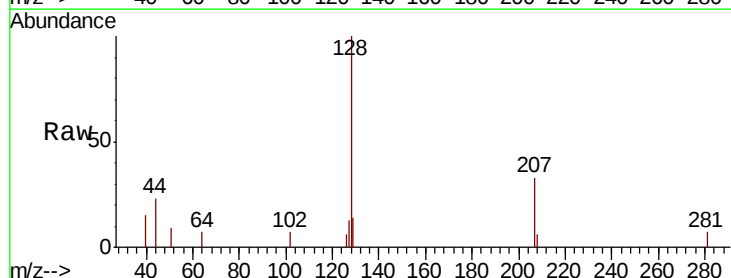


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 5.015 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN056845.D
Acq: 19 Jul 2019 20:20

Tgt Ion: 128 Resp: 5112
Ion Ratio Lower Upper
128 100
127 9.3 10.3 15.5#
129 10.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

