

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100620\
 Data File : VN063905.D
 Acq On : 6 Oct 2020 19:55
 Operator : JC/MD
 Sample : L4243-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(OCT)

Quant Time: Oct 07 04:14:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100620W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 06 16:42:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	46736	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	246679	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	228956	30.00	ug/l	0.00

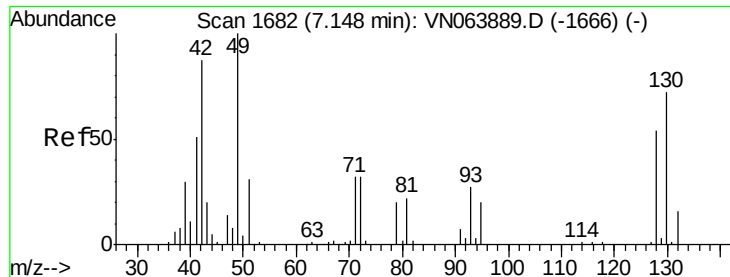
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	132699	31.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.37%
60) 4-Bromofluorobenzene	12.38	95	105475	26.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.80%
63) Toluene-d8	10.06	98	310122	29.89	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.63%

Target Compounds

					Ovalue	
13) Acrolein	3.77	56	644	2.144	ug/l #	26
15) Acetone	3.77	58	1798677	4896.497	ug/l	76
16) Carbon Disulfide	4.01	76	7866	1.058	ug/l	99
18) Methylene Chloride	4.51	84	828	0.275	ug/l #	30
23) tert-Butyl Alcohol	4.75	59	385	0.707	ug/l #	100
30) 2-Butanone	6.79	43	34344	16.209	ug/l #	72
35) Methacrylonitrile	7.14	41	409	0.203	ug/l #	37
43) Ethyl Acetate	6.79	43	34344	7.569	ug/l	94
46) Methyl methacrylate	9.14	41	1046	0.280	ug/l #	33
50) 1,1,2-Trichloroethane	10.39	97	1327	0.426	ug/l #	15
51) Ethyl methacrylate	10.06	69	1279	0.283	ug/l	86
58) 4-Methyl-2-Pentanone	9.95	43	23763	5.348	ug/l #	93
59) 2-Hexanone	10.73	43	1771	0.535	ug/l #	61
62) Toluene	10.13	91	83403	6.343	ug/l	98
77) t-1,4-Dichloro-2-butene	12.38	75	58438	37.496	ug/l #	12
79) tert-butylbenzene	13.27	119	2696	0.294	ug/l	67
82) p-Isopropyltoluene	13.27	119	2696	0.247	ug/l	82

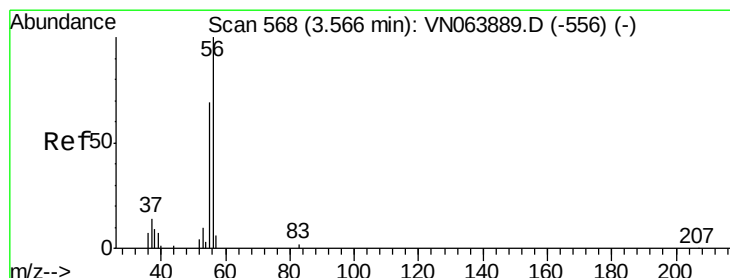
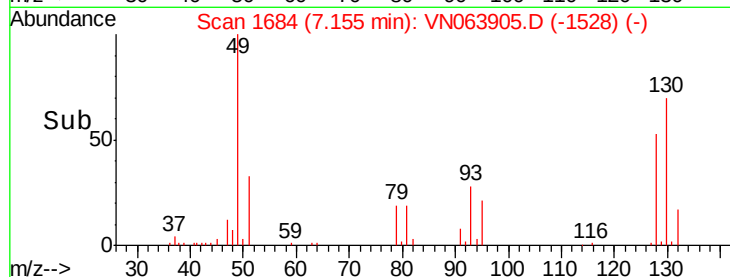
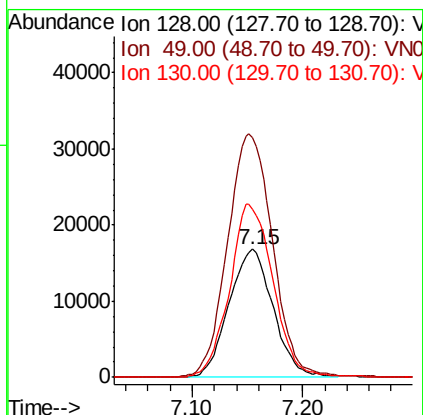
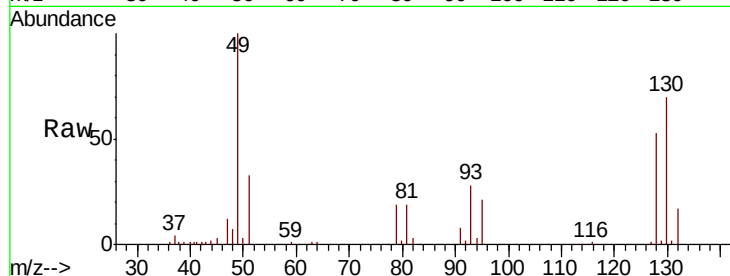
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.15 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

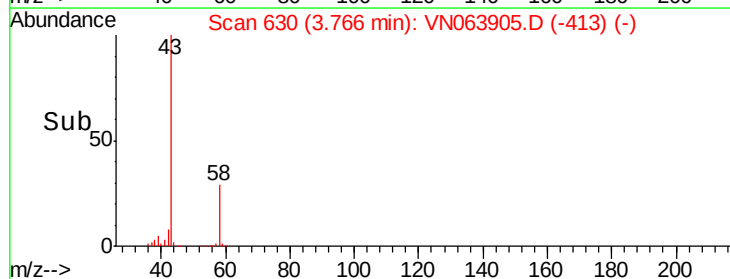
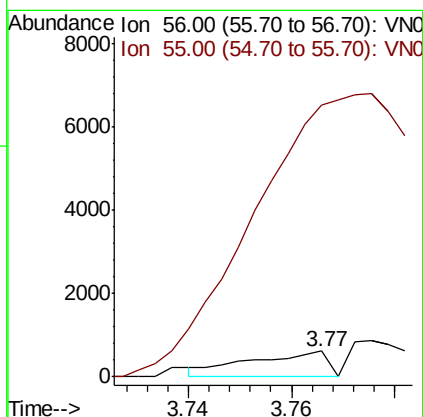
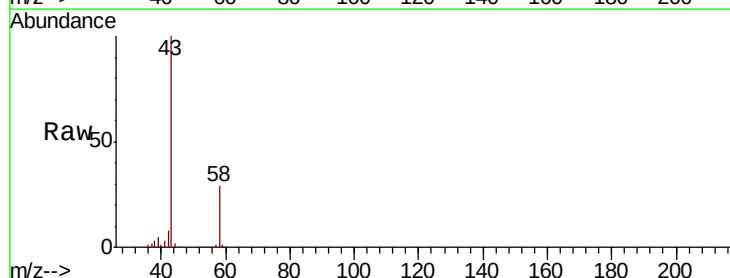
Instrument :
MSVOA_N
ClientSampleId :
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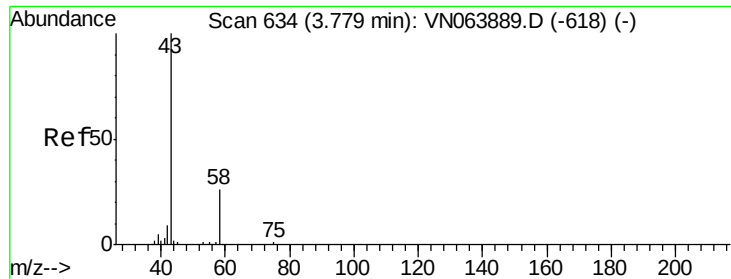
Tot Ion:128 Resp: 46736
Ion Ratio Lower Upper
128 100
49 193.6 0.0 437.5
130 133.1 0.0 327.3



#13
Acrolein
Concen: 2.144 ug/l
RT: 3.77 min Scan# 630
Delta R.T. 0.20 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Tgt Ion: 56 Resp: 644
Ion Ratio Lower Upper
56 100
55 10.9 58.7 88.1#

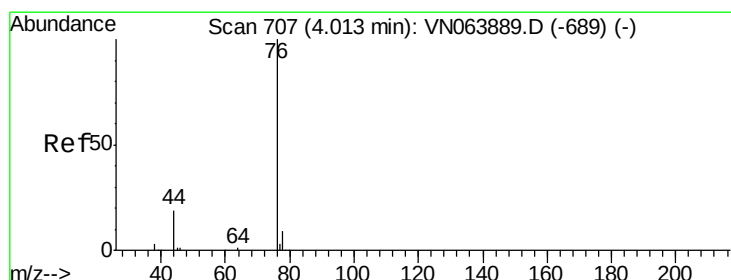
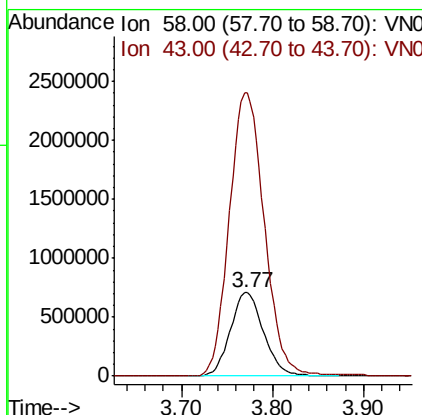
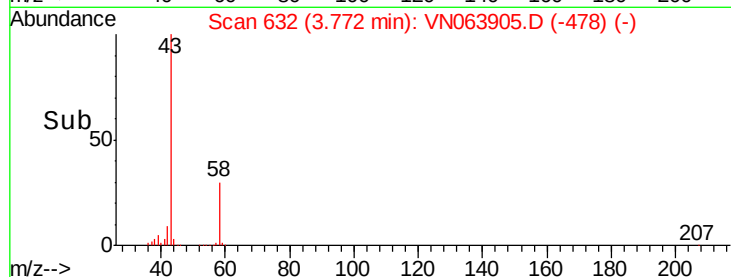
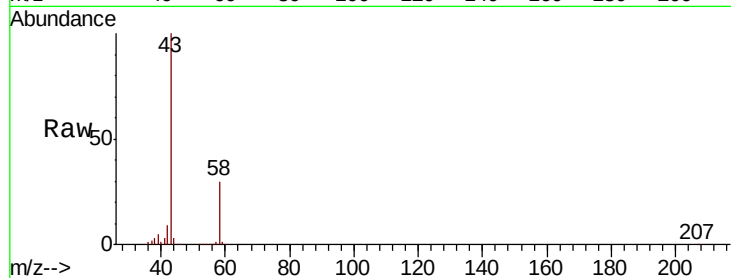




#15
Acetone
Concen: 4896.497 ug/l
RT: 3.77 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

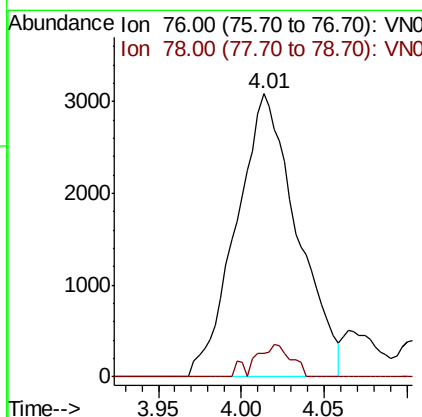
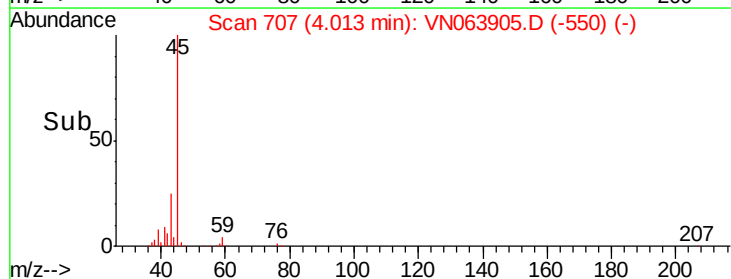
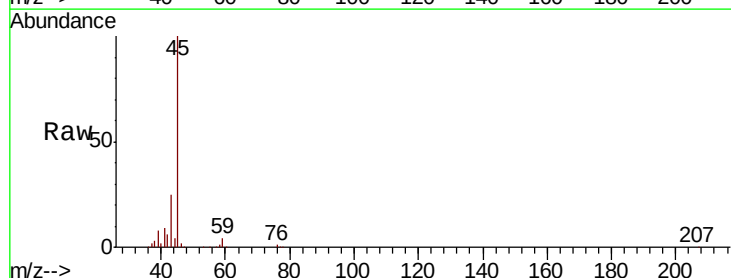
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

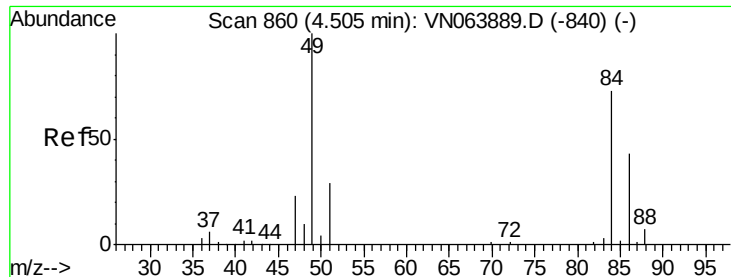
Tot Ion: 58 Resp: 1798677
Ion Ratio Lower Upper
58 100
43 338.7 233.2 349.8



#16
Carbon Disulfide
Concen: 1.058 ug/l
RT: 4.01 min Scan# 707
Delta R.T. 0.01 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Tgt Ion: 76 Resp: 7866
Ion Ratio Lower Upper
76 100
78 8.2 7.0 10.4

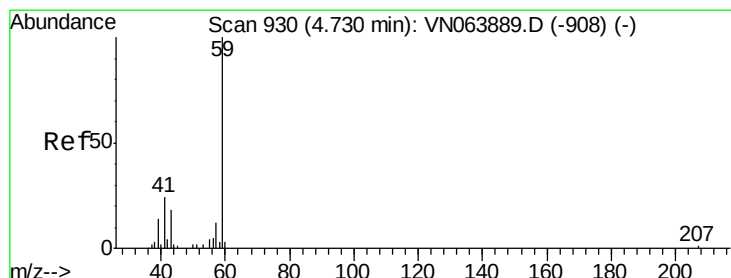
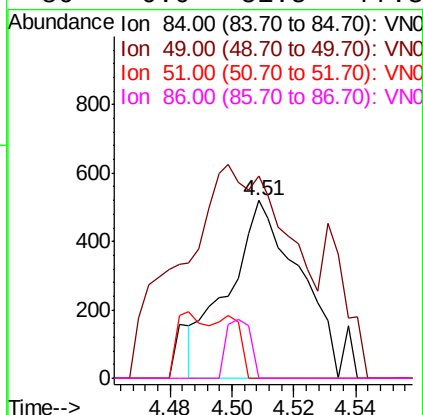
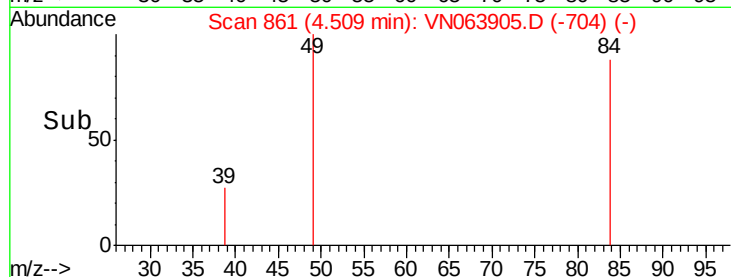
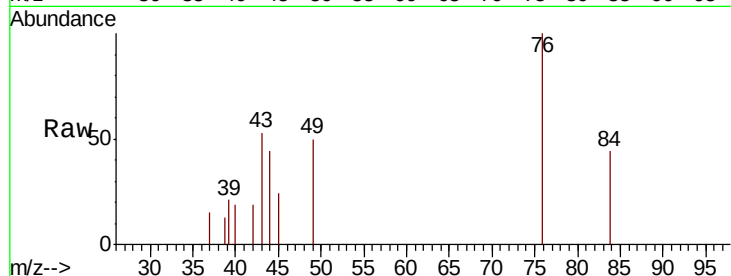




#18
Methvlene Chloride
Concen: 0.275 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

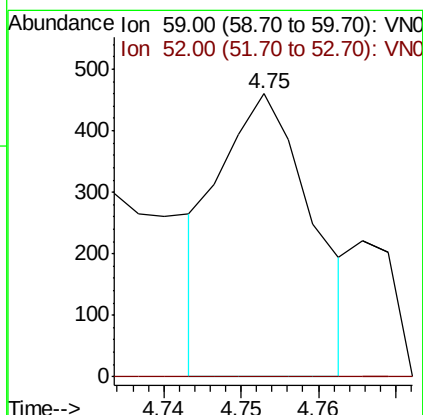
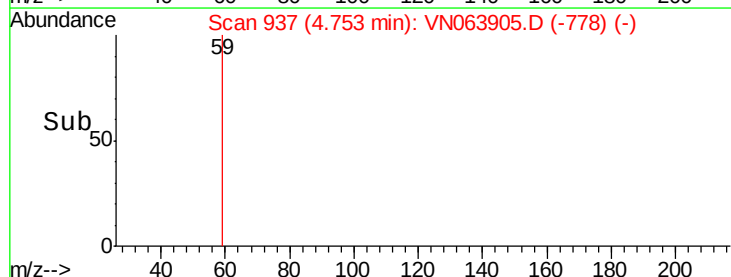
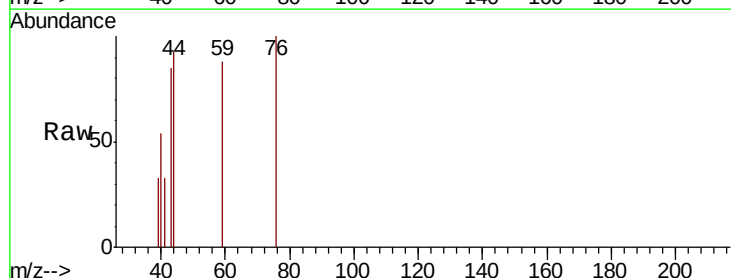
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

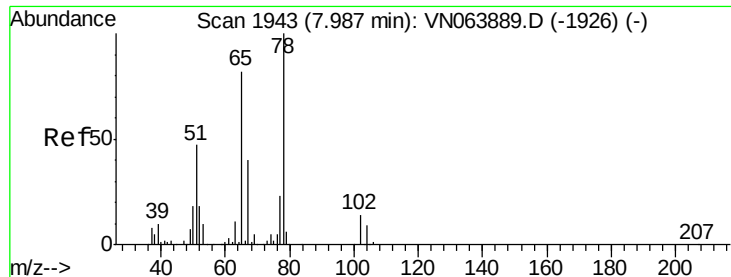
Tot Ion: 84 Resp: 828
Ion Ratio Lower Upper
84 100
49 48.9 97.8 146.8#
51 0.0 30.7 46.1#
86 0.0 51.5 77.3#



#23
tert-Butyl Alcohol
Concen: 0.707 ug/l
RT: 4.75 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Tgt Ion: 59 Resp: 385
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 31.615 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

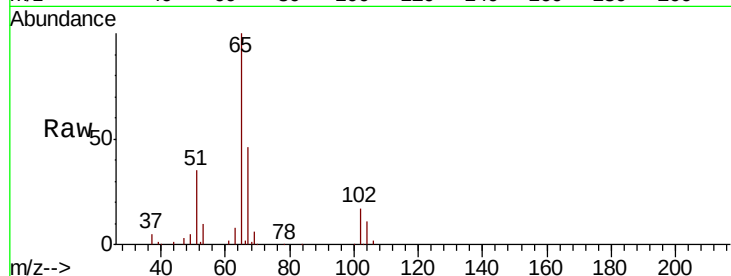
002-35TH-AVE(OCT)

Tot Ion: 65 Resp: 132699

Ion Ratio Lower Upper

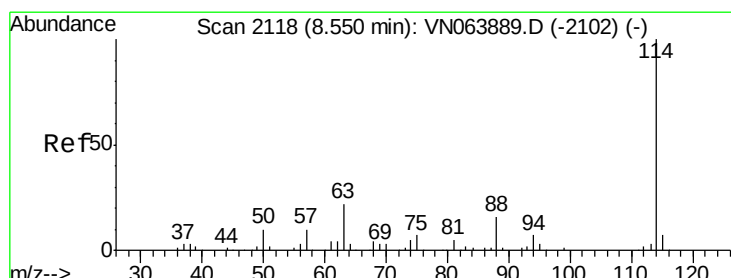
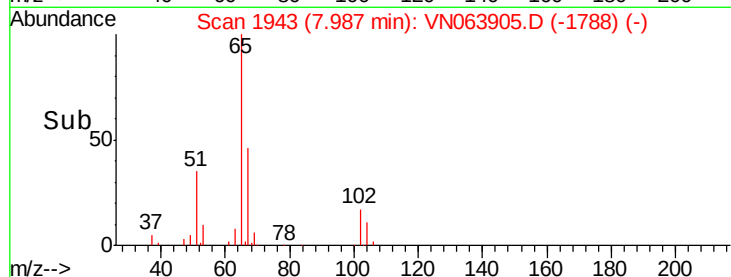
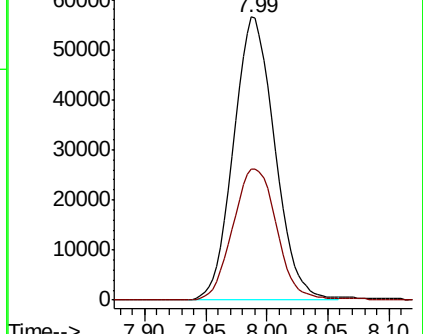
65 100

67 49.1 43.8 65.6



Abundance Ion 65.00 (64.70 to 65.70): VN063889.D (-1926) (-)

Ion 67.00 (66.70 to 67.70): VN063889.D (-1926) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

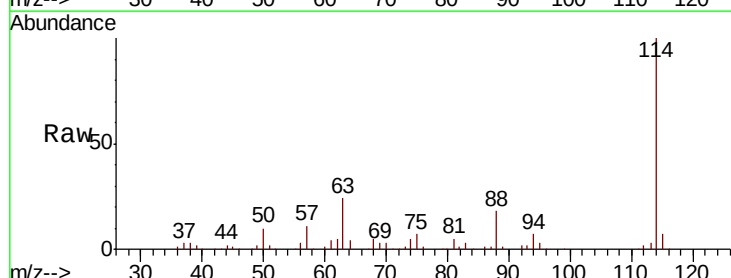
Tgt Ion: 114 Resp: 246679

Ion Ratio Lower Upper

114 100

63 23.3 17.0 25.6

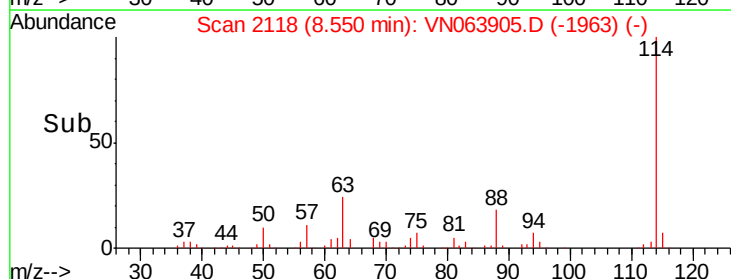
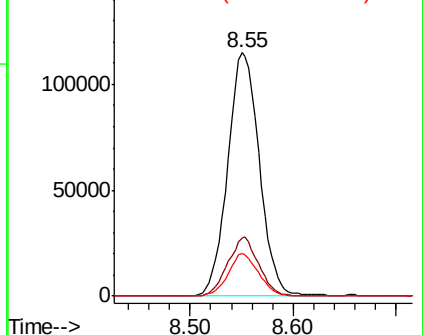
88 16.7 12.6 18.8

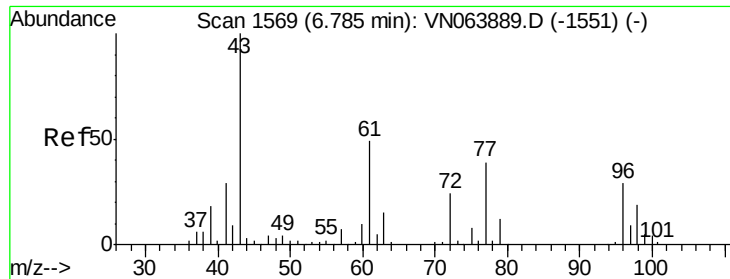


Abundance Ion 114.00 (113.70 to 114.70): VN063889.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN063889.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN063889.D (-2102) (-)

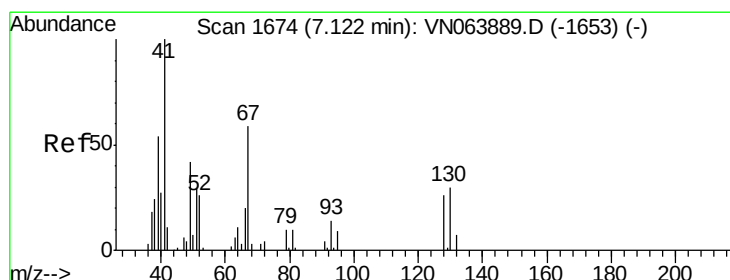
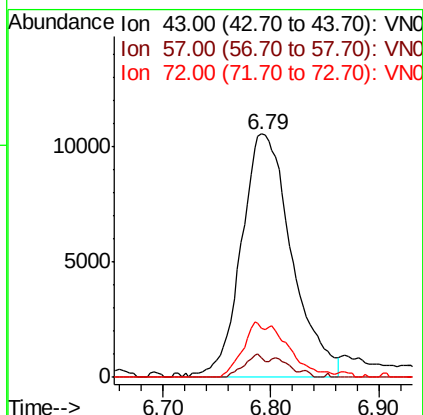
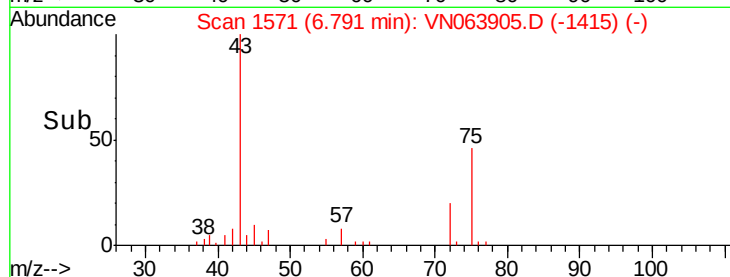
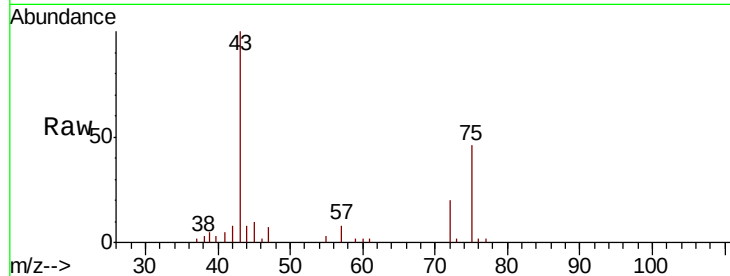




#30
2-Butanone
Concen: 16.209 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

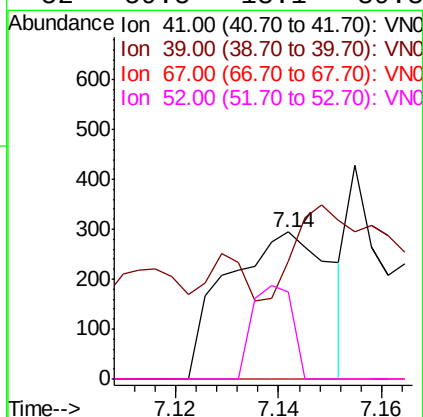
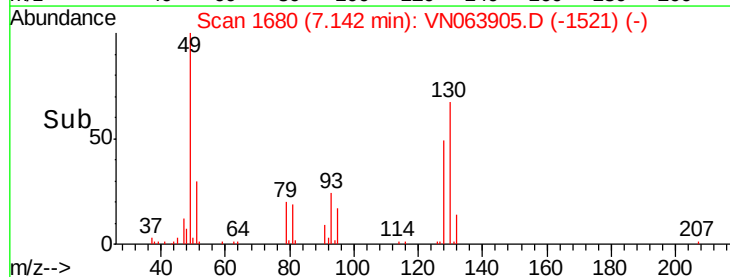
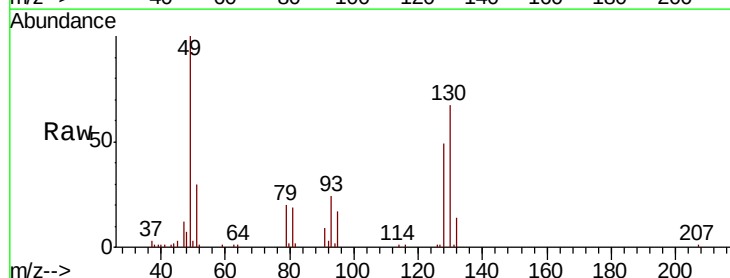
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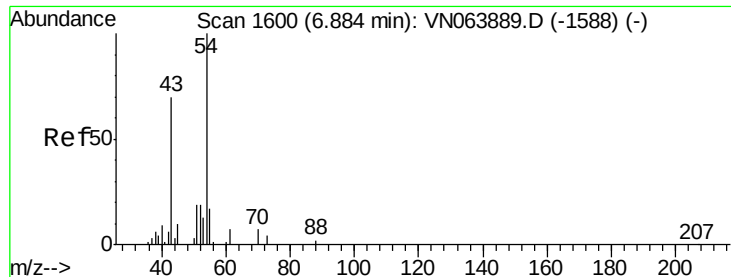
Tot Ion: 43 Resp: 34344
Ion Ratio Lower Upper
43 100
57 3.8 6.6 9.8#
72 9.9 21.3 31.9#



#35
Methacrylonitrile
Concen: 0.203 ug/l
RT: 7.14 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Tgt Ion: 41 Resp: 409
Ion Ratio Lower Upper
41 100
39 22.4 23.7 71.1#
67 0.0 31.6 94.7#
52 59.5 13.1 39.3#





#43

Ethyl Acetate

Concen: 7.569 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. -0.09 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

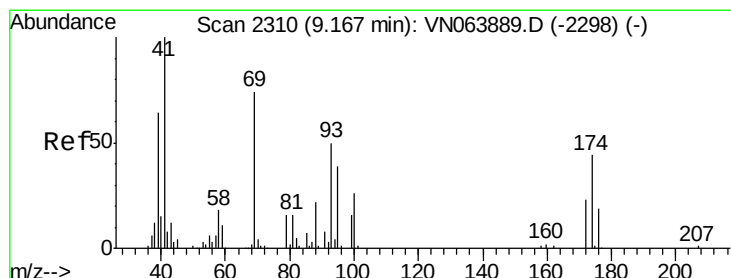
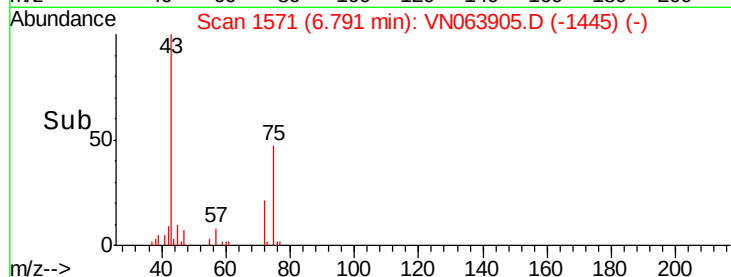
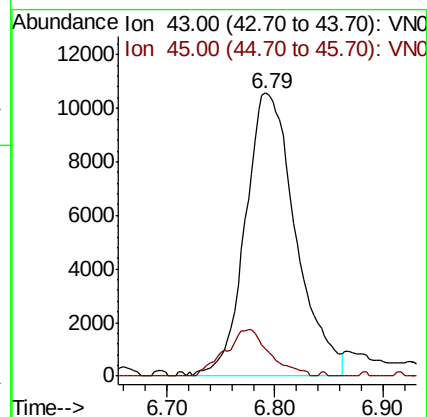
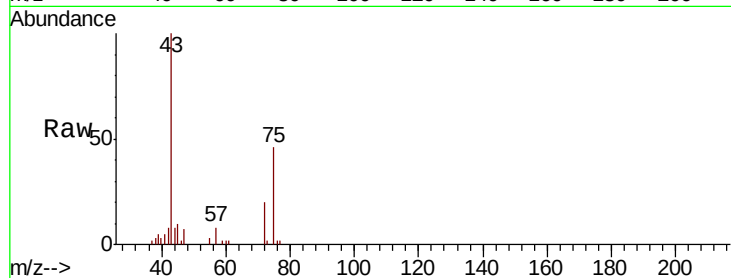
002-35TH-AVE(OCT)

Tot Ion: 43 Resp: 34344

Ion Ratio Lower Upper

43 100

45 11.6 11.3 16.9



#46

Methyl methacrylate

Concen: 0.280 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

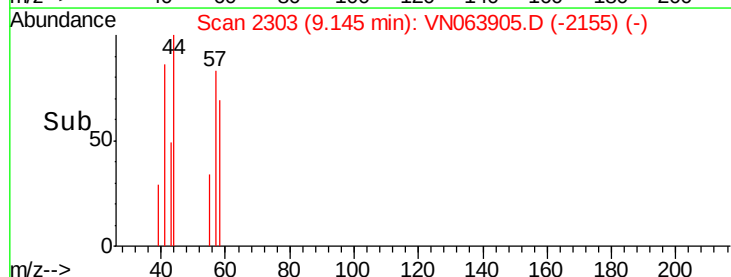
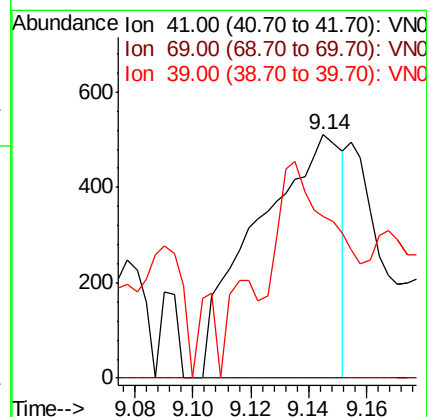
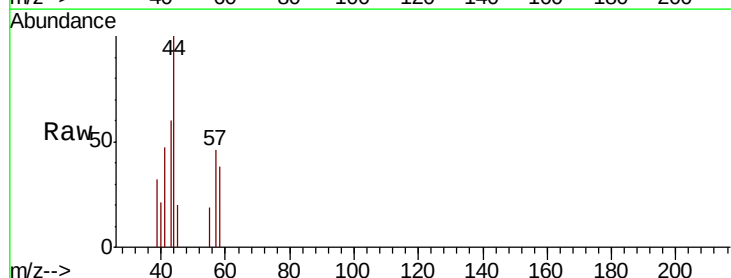
Tgt Ion: 41 Resp: 1046

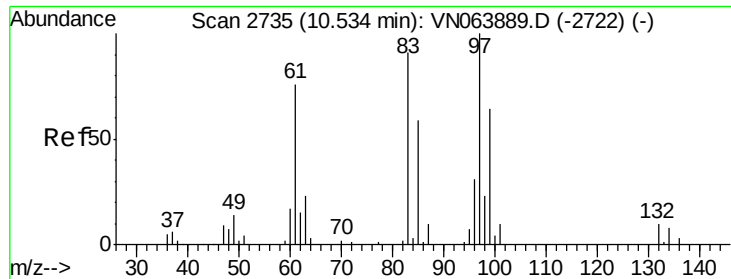
Ion Ratio Lower Upper

41 100

69 0.0 42.6 128.0#

39 66.5 25.1 75.4

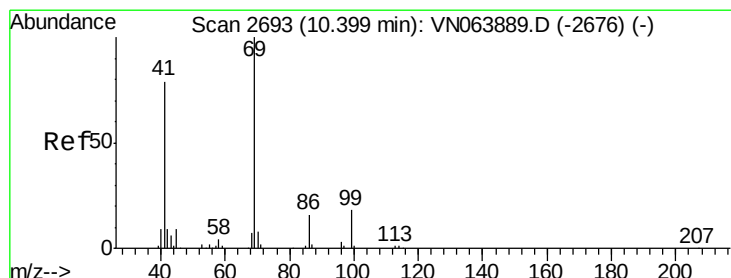
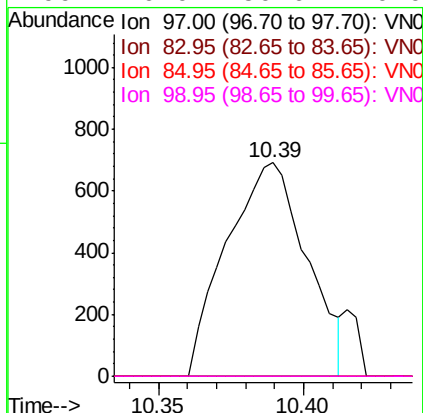
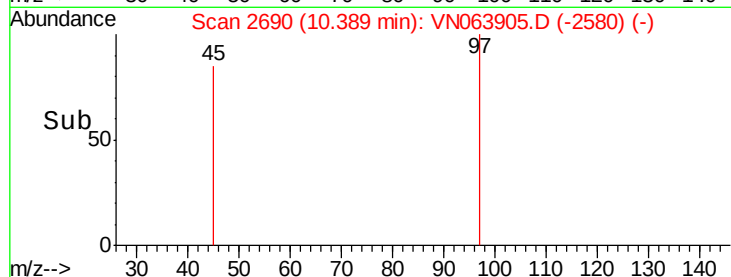
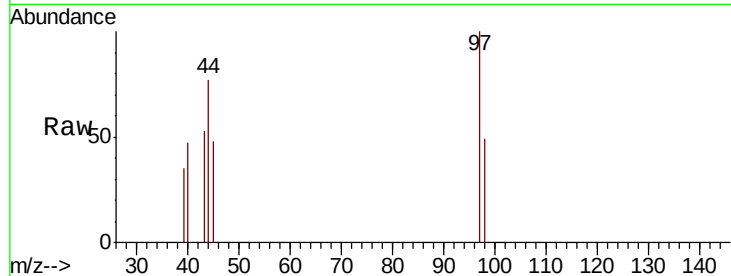




#50
 1,1,2-Trichloroethane
 Concen: 0.426 ug/l
 RT: 10.39 min Scan# 2690
 Delta R.T. -0.15 min
 Lab File: VN063905.D
 Acq: 6 Oct 2020 19:55

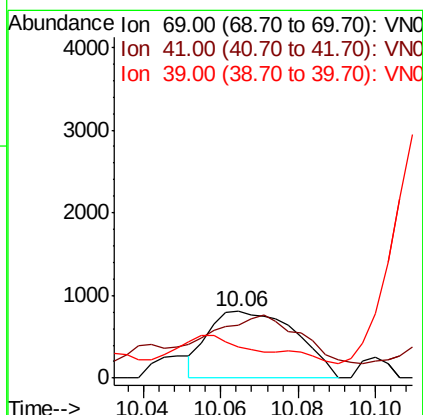
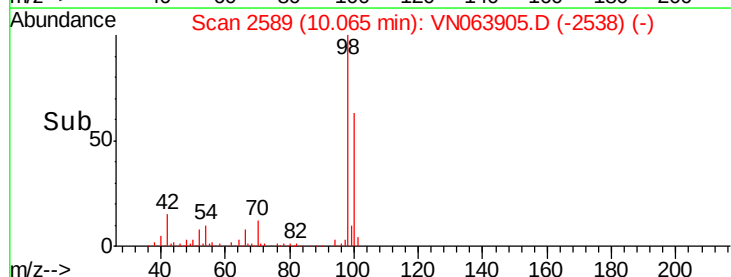
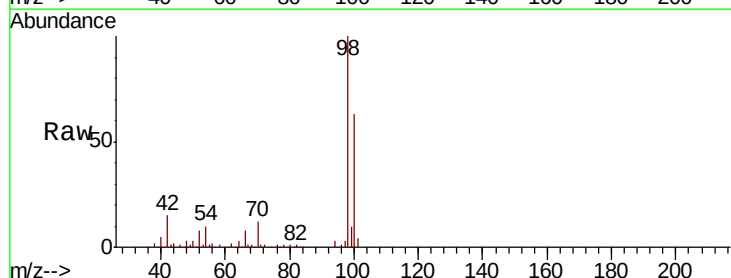
Instrument :
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 002-35TH-AVE(OCT)

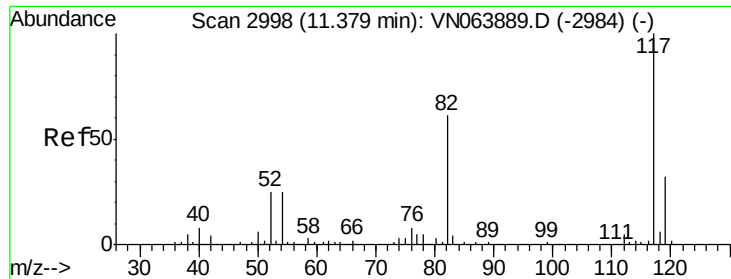
Tot Ion: 97 Resp: 1327
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.9 104.9#
 85 0.0 44.0 66.0#
 99 0.0 50.6 76.0#



#51
 Ethyl methacrylate
 Concen: 0.283 ug/l
 RT: 10.06 min Scan# 2589
 Delta R.T. -0.34 min
 Lab File: VN063905.D
 Acq: 6 Oct 2020 19:55

Tgt Ion: 69 Resp: 1279
 Ion Ratio Lower Upper
 69 100
 41 53.0 32.1 96.5
 39 25.6 16.1 48.3

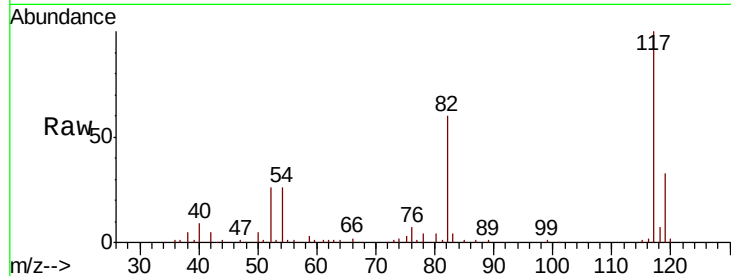




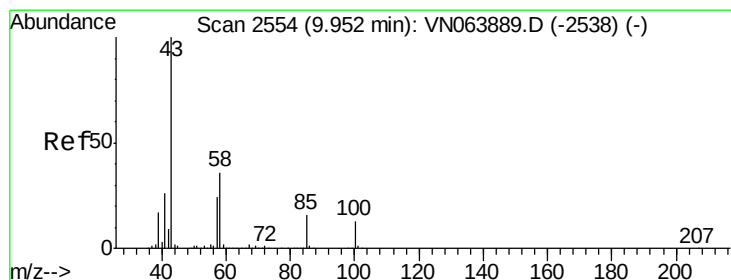
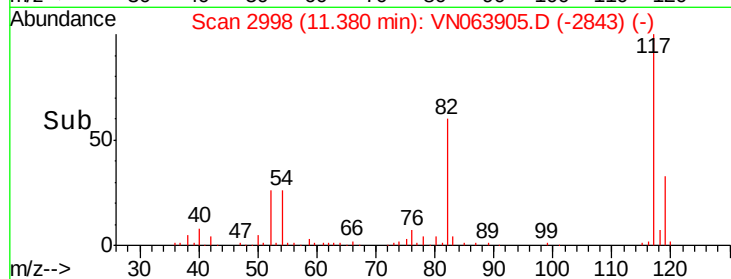
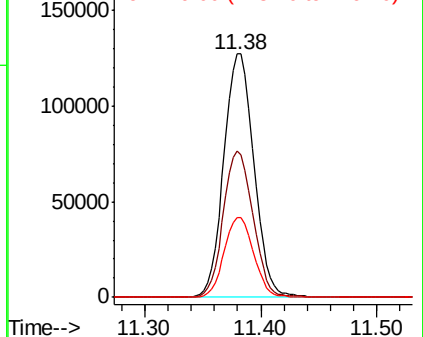
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(OCT)

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.9	44.9	67.3
119	32.1	26.0	39.0

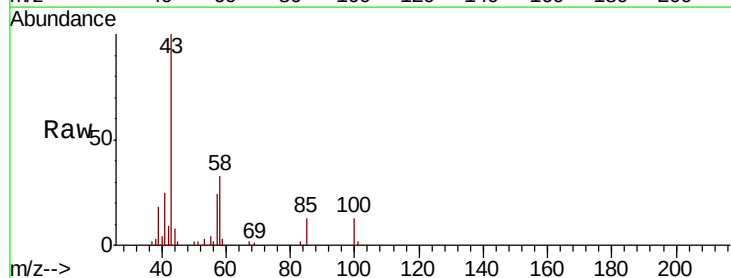


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

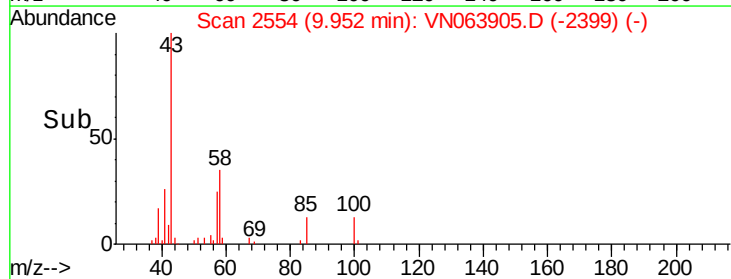
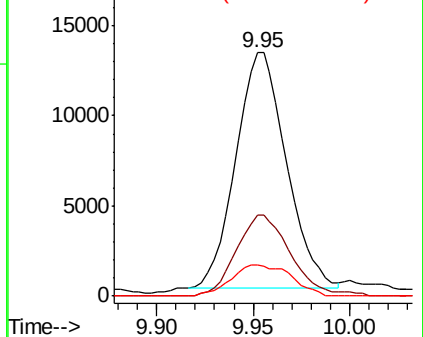


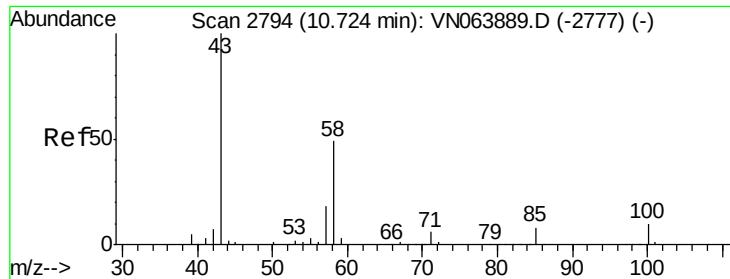
#58
4-Methyl-2-Pentanone
Concen: 5.348 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN063905.D
Acq: 6 Oct 2020 19:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.2	31.4	47.0
85	11.3	13.4	20.2



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#59

2-Hexanone

Concen: 0.535 ug/l

RT: 10.73 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(OCT)

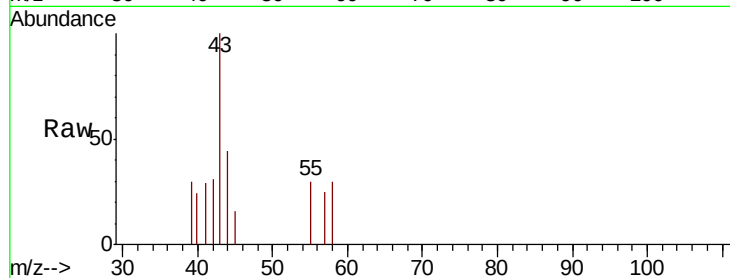
Tot Ion: 43 Resp: 1771

Ion Ratio Lower Upper

43 100

58 18.7 42.6 64.0#

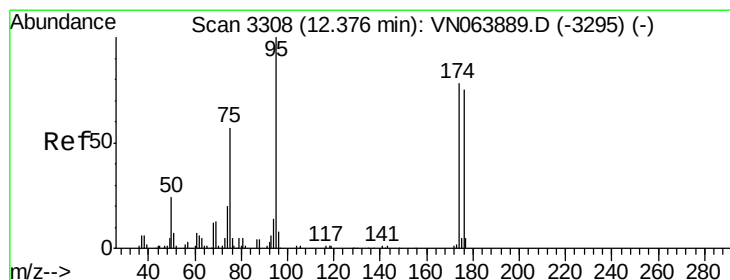
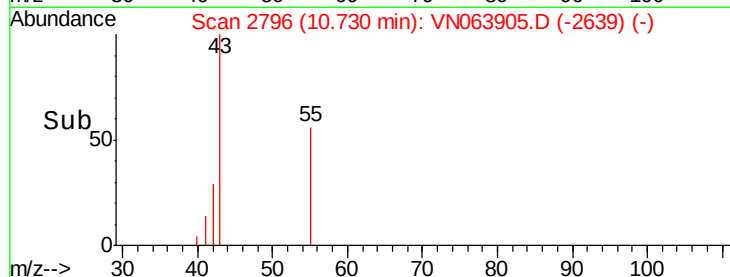
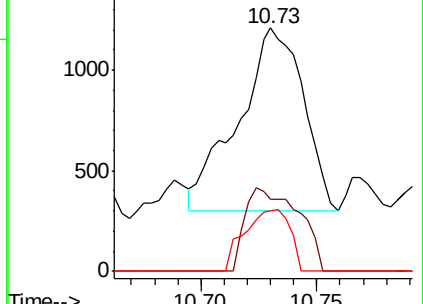
57 23.4 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#60

4-Bromofluorobenzene

Concen: 26.938 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

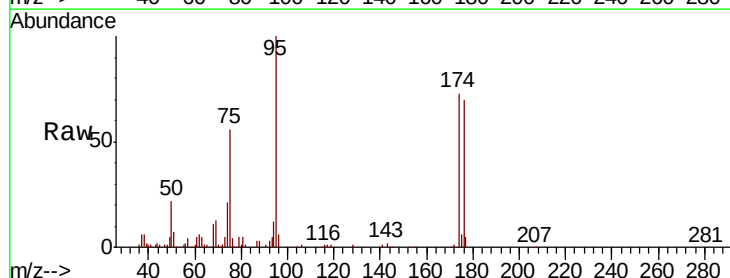
Tgt Ion: 95 Resp: 105475

Ion Ratio Lower Upper

95 100

174 75.6 70.1 105.1

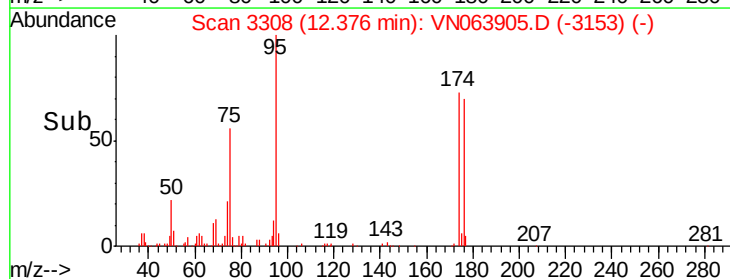
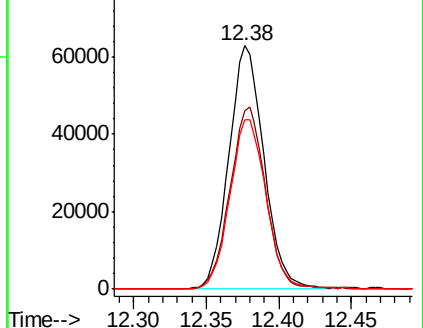
176 71.8 66.8 100.2

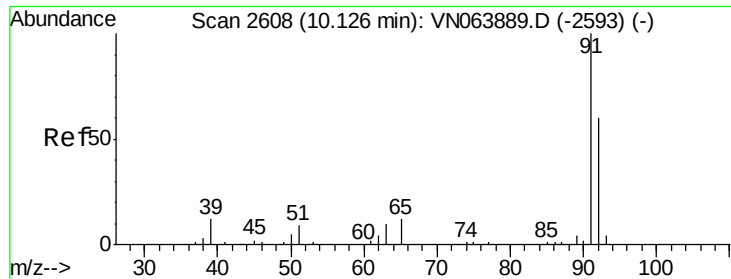


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#62

Toluene

Concen: 6.343 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

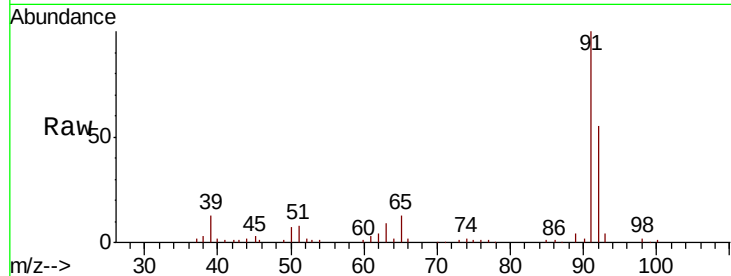
002-35TH-AVE(OCT)

Tot Ion: 91 Resp: 83403

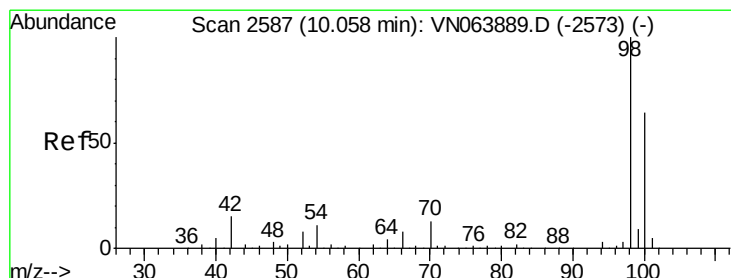
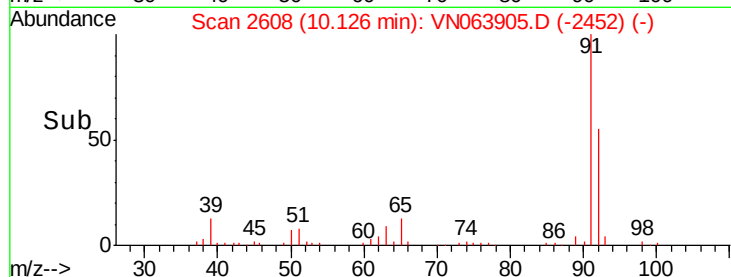
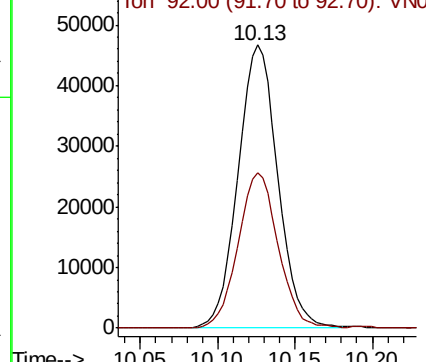
Ion Ratio Lower Upper

91 100

92 55.3 45.5 68.3



Abundance Ion 91.00 (90.70 to 91.70): VN063889.D (-2593) (-)



#63

Toluene-d8

Concen: 29.888 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063905.D

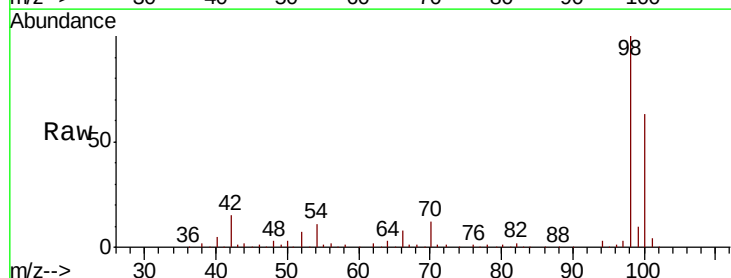
Acq: 6 Oct 2020 19:55

Tgt Ion: 98 Resp: 310122

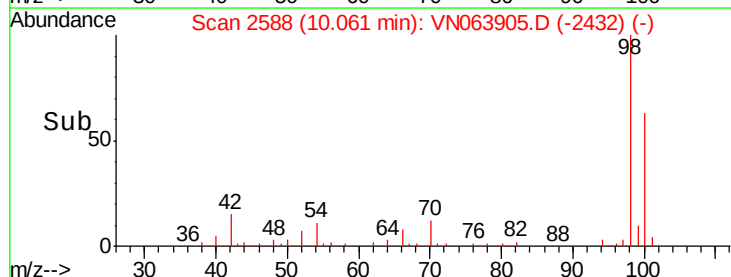
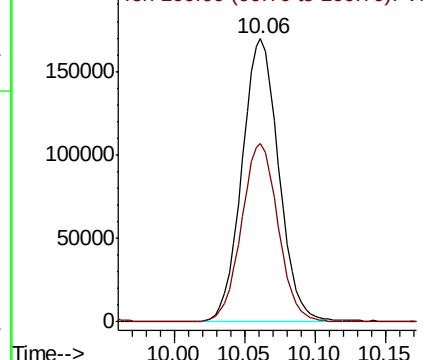
Ion Ratio Lower Upper

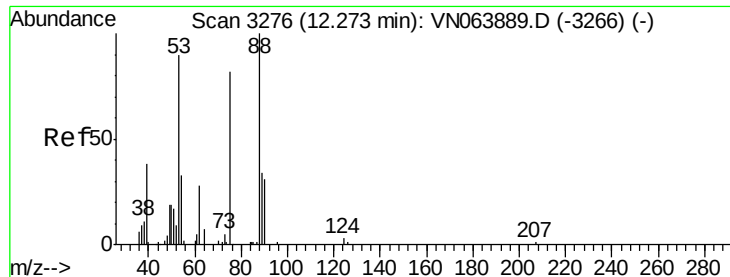
98 100

100 62.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN063889.D (-2573) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 37.496 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

Instrument :

MSVOA_N

ClientSampleId :

002-35TH-AVE(OCT)

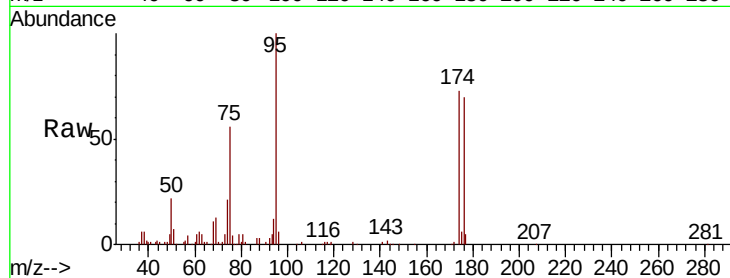
Tot Ion: 75 Resp: 58438

Ion Ratio Lower Upper

75 100

53 0.0 47.0 141.0#

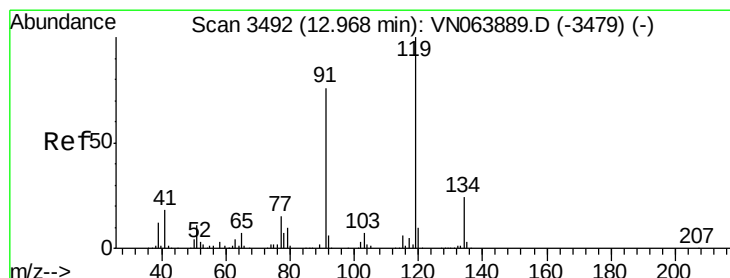
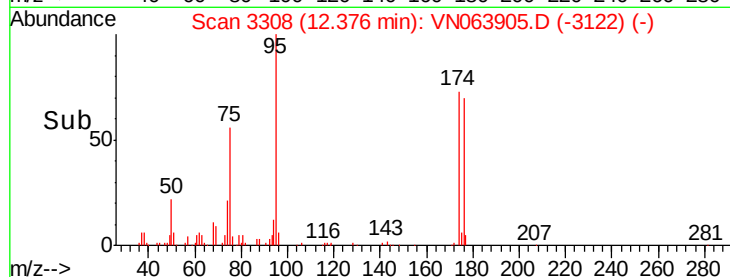
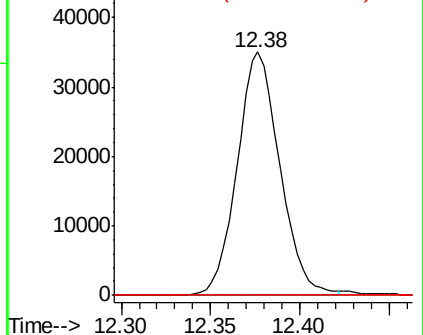
89 0.0 22.9 68.7#



Abundance Ion 75.00 (74.70 to 75.70): VN063905.D (-3308) (-)

Ion 53.00 (52.70 to 53.70): VN063905.D (-3308) (-)

Ion 89.00 (88.70 to 89.70): VN063905.D (-3308) (-)



#79

tert-butylbenzene

Concen: 0.294 ug/l

RT: 13.27 min Scan# 3585

Delta R.T. 0.30 min

Lab File: VN063905.D

Acq: 6 Oct 2020 19:55

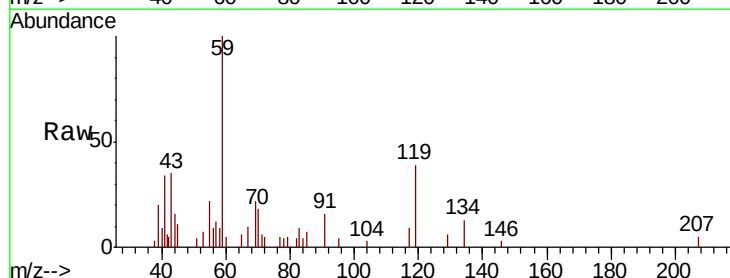
Tgt Ion: 119 Resp: 2696

Ion Ratio Lower Upper

119 100

91 35.8 0.0 136.8

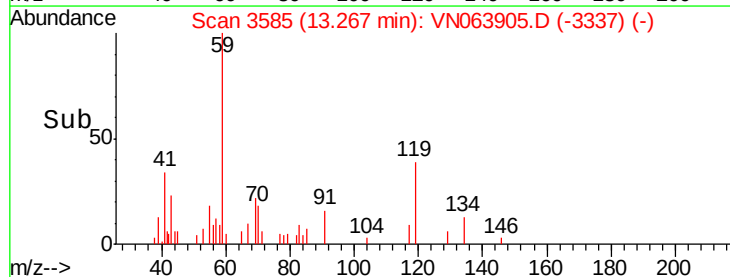
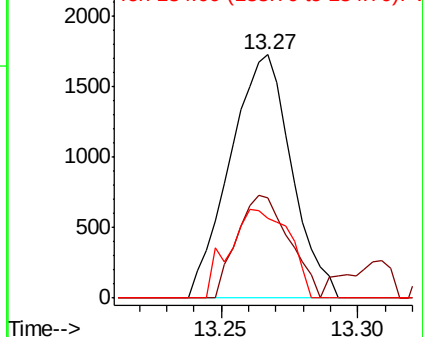
134 31.2 0.0 48.8

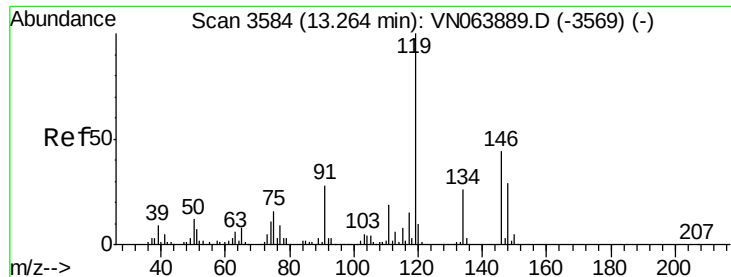


Abundance Ion 119.00 (118.70 to 119.70): VN063905.D (-3585) (-)

Ion 91.00 (90.70 to 91.70): VN063905.D (-3585) (-)

Ion 134.00 (133.70 to 134.70): VN063905.D (-3585) (-)





#82
 p-Isopropyltoluene
 Concen: 0.247 ug/l
 RT: 13.27 min Scan# 3585
 Delta R.T. 0.00 min
 Lab File: VN063905.D
 Acq: 6 Oct 2020 19:55

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(OCT)

Tot Ion	Ratio	Lower	Upper
119	100		
134	31.2	0.0	52.2
91	35.8	0.0	46.2

