

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041520\
 Data File : VN060955.D
 Acq On : 15 Apr 2020 12:50
 Operator : JC/MD
 Sample : L2230-58
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 16 06:32:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	145185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	245746	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	230102	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	101465	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	96767	48.55	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.10%	
35) Dibromofluoromethane	7.56	113	72945	49.09	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.18%	
50) Toluene-d8	10.08	98	304330	50.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.40	95	113993	51.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.50%	

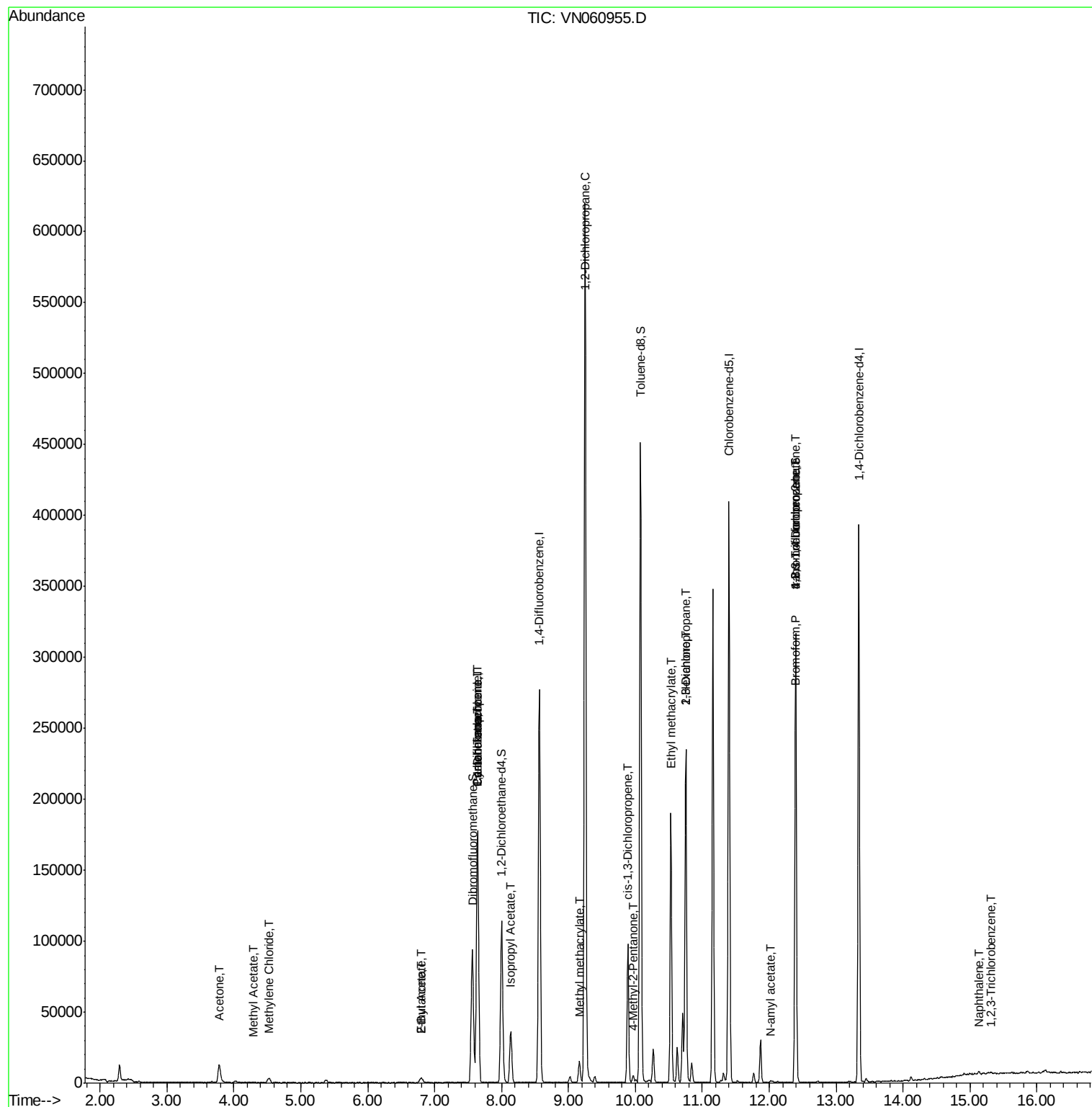
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	22775	32.260	ug/l	99
18) Methyl Acetate	4.29	43	1540	0.775	ug/l #	54
20) Methylene Chloride	4.52	84	2766	1.593	ug/l	93
25) 2-Butanone	6.80	43	6883	6.025	ug/l	99
31) Cyclohexane	7.64	56	3174	0.989	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11529	4.845	ug/l #	49
37) Ethyl Acetate	6.80	43	6883	2.677	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14367	6.736	ug/l #	16
43) Isopropyl Acetate	8.14	43	44714	10.545	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	627	0.331	ug/l #	43
48) Methyl methacrylate	9.16	41	2597	1.376	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3909	1.620	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	17220	5.739	ug/l #	61
56) Ethyl methacrylate	10.54	69	537	0.206	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	2316	0.800	ug/l #	42
59) 2-Hexanone	10.75	43	35436	20.387	ug/l #	53
71) Bromoform	12.38	173	30	1.702	ug/l #	29
74) N-amyl acetate	12.02	43	2438	0.693	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	58362	26.657	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	58362	68.462	ug/l #	13
95) Naphthalene	15.13	128	2006	0.351	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.31	180	396	0.212	ug/l #	76

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 18 08:49:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

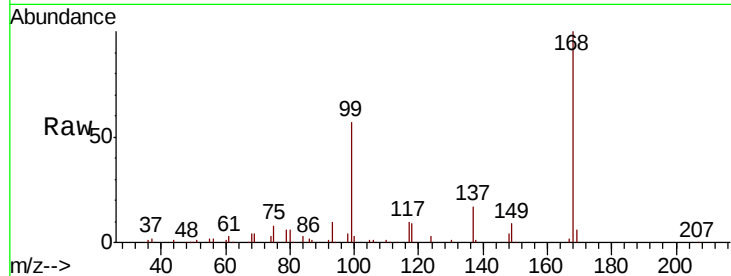
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 145185

Ion Ratio Lower Upper

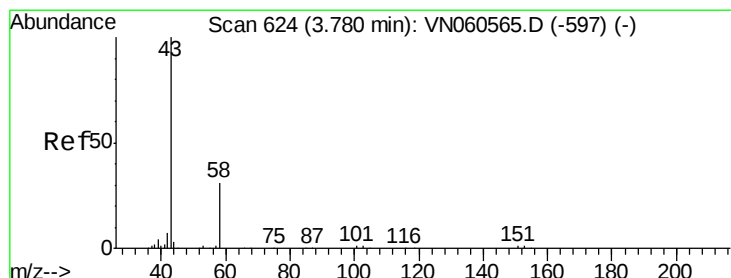
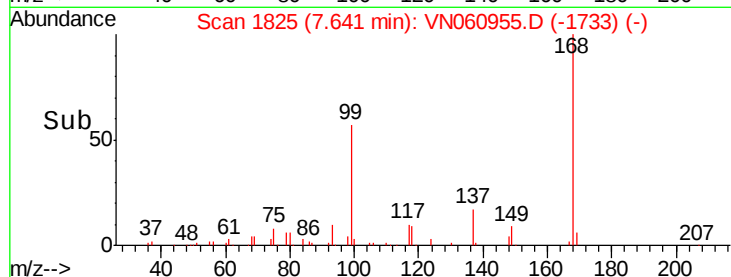
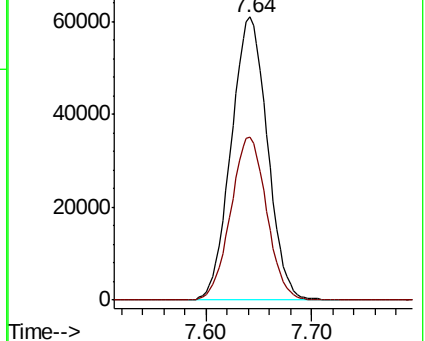
168 100

99 57.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 32.260 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN060955.D

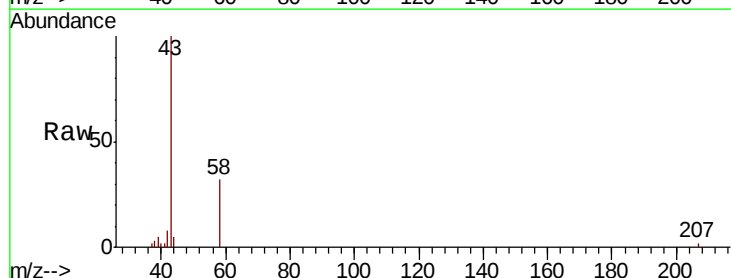
Acq: 15 Apr 2020 12:50

Tgt Ion: 43 Resp: 22775

Ion Ratio Lower Upper

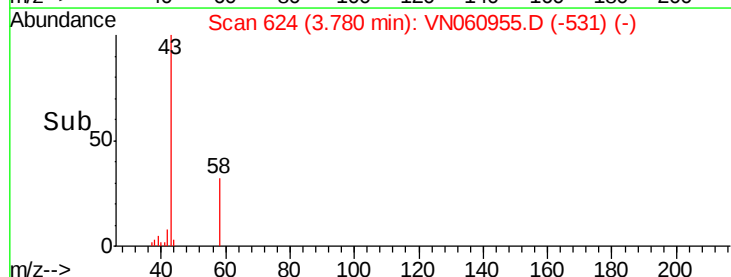
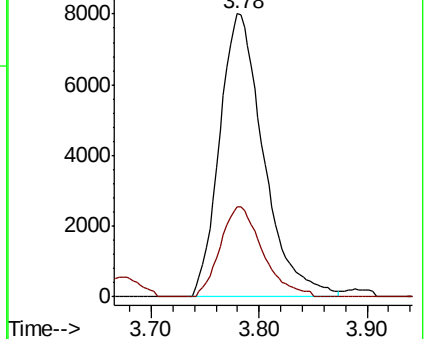
43 100

58 31.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

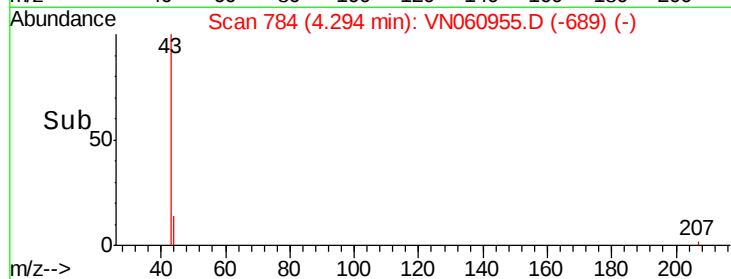
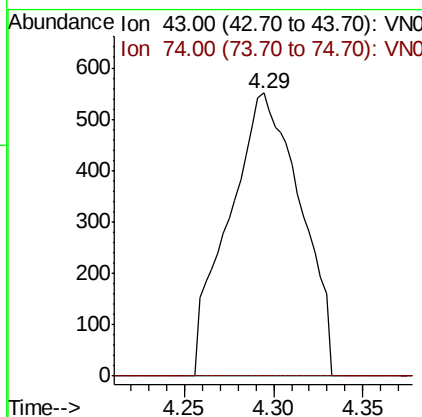
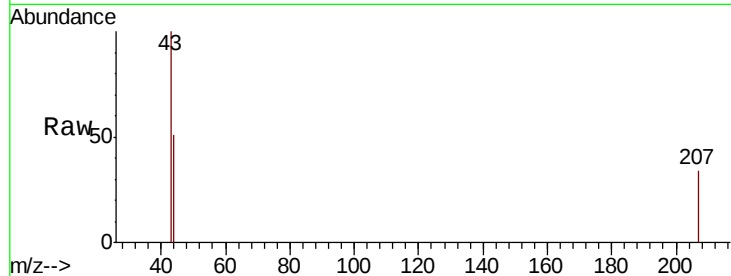




#18
Methyl Acetate
Concen: 0.775 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

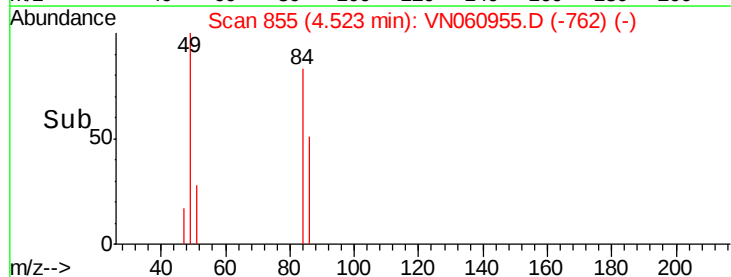
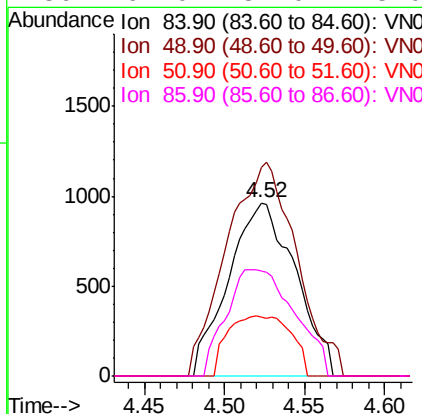
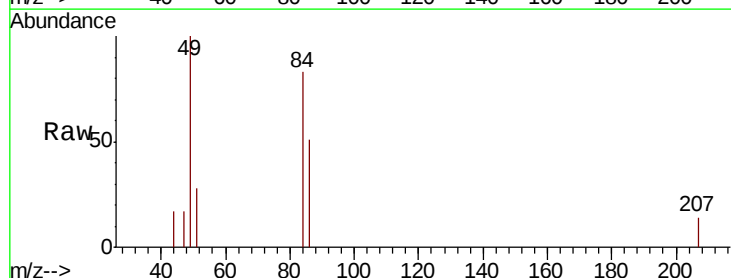
Instrument :
MSVOA_N
ClientSampled :

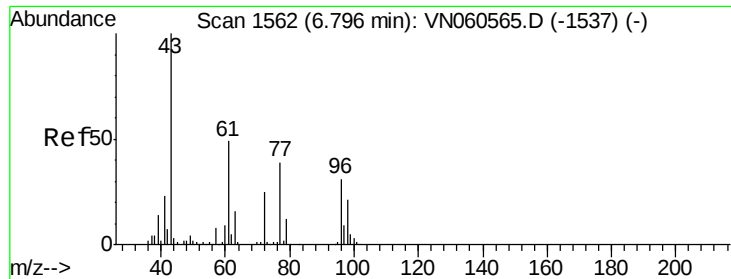
Tot Ion: 43 Resp: 1540
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.593 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion: 84 Resp: 2766
Ion Ratio Lower Upper
84 100
49 120.8 103.3 154.9
51 33.9 31.6 47.4
86 61.0 52.0 78.0

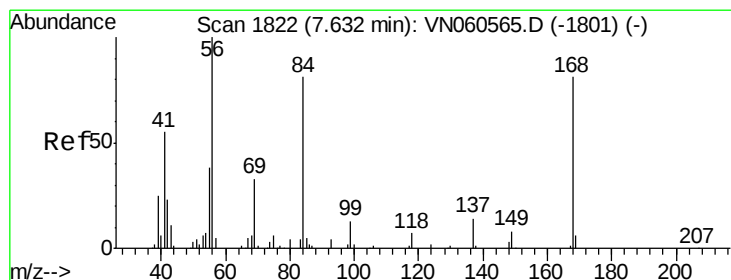
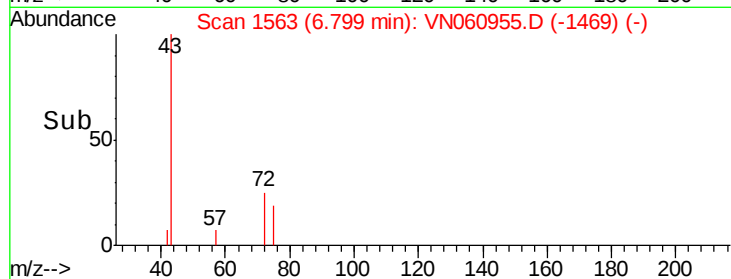
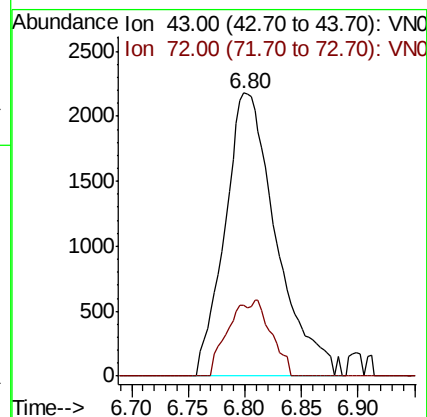
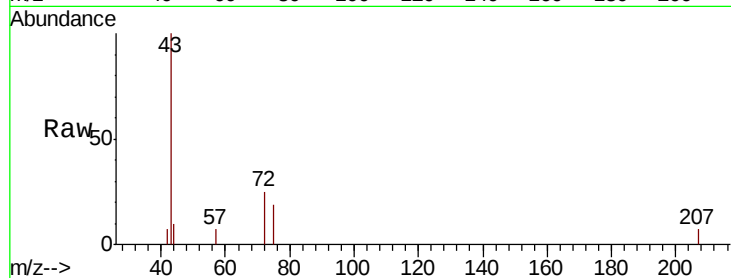




#25
2-Butanone
Concen: 6.025 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

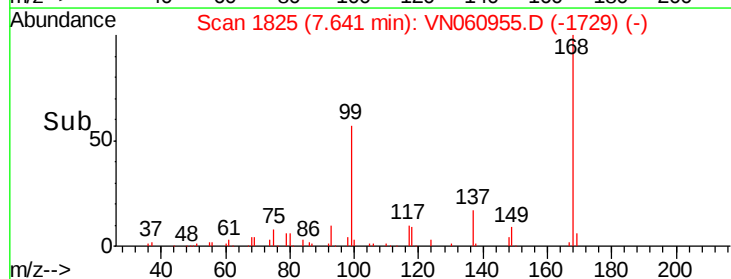
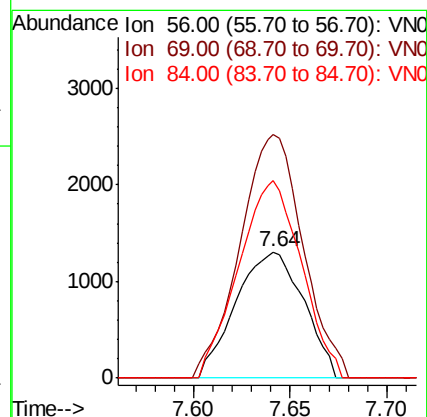
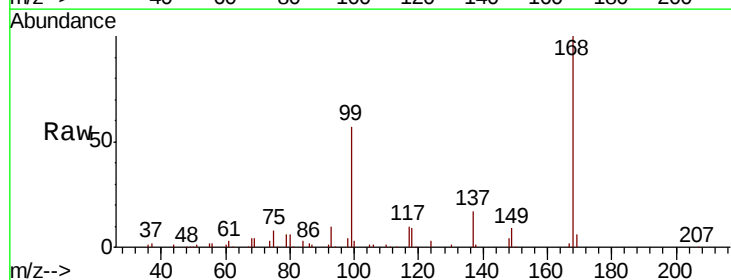
Instrument :
MSVOA_N
ClientSampleId :

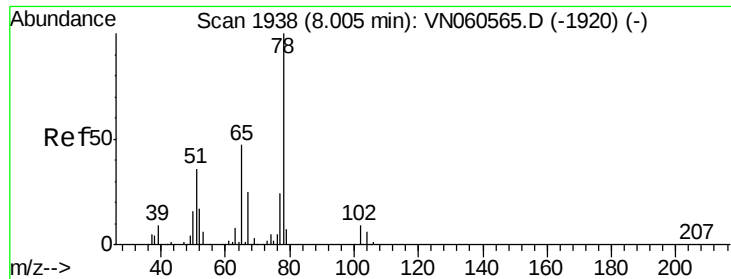
Tot Ion: 43 Resp: 6883
Ion Ratio Lower Upper
43 100
72 25.2 20.4 30.6



#31
Cyclohexane
Concen: 0.989 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion: 56 Resp: 3174
Ion Ratio Lower Upper
56 100
69 192.5 26.6 40.0#
84 156.6 64.3 96.5#

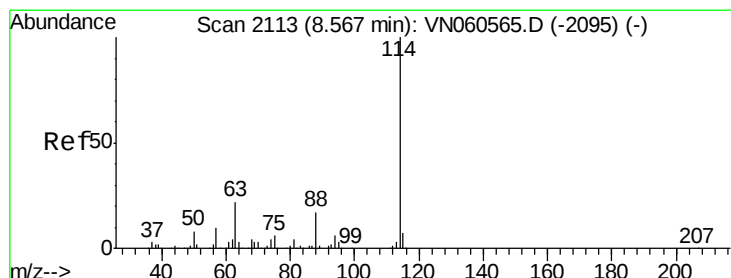
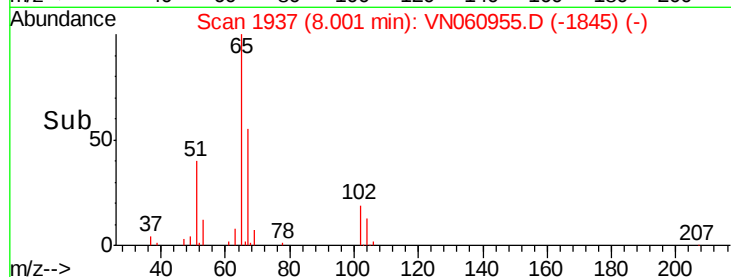
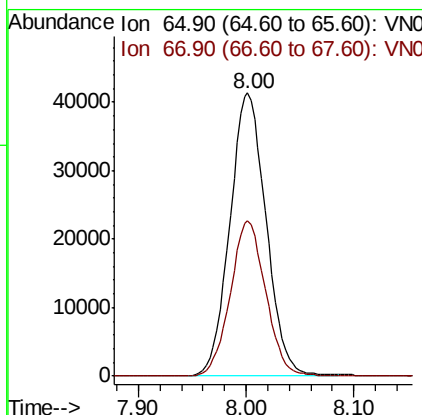
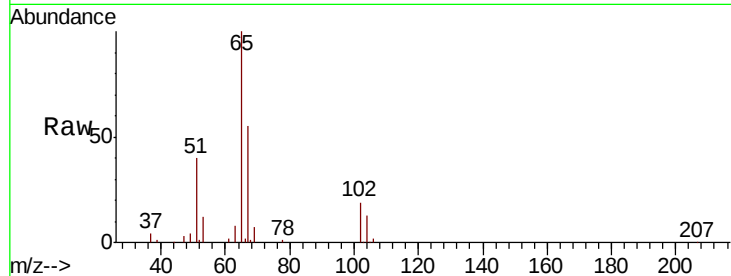




#33
 1,2-Dichloroethane-d4
 Concen: 48.552 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060955.D
 Acq: 15 Apr 2020 12:50

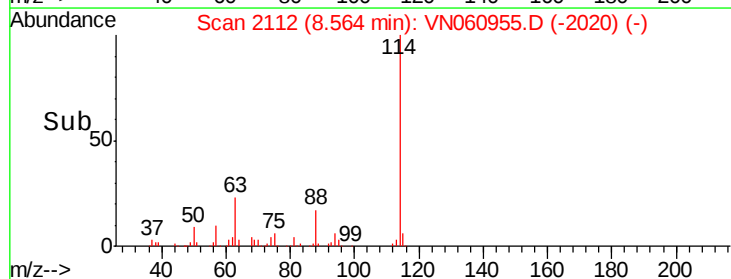
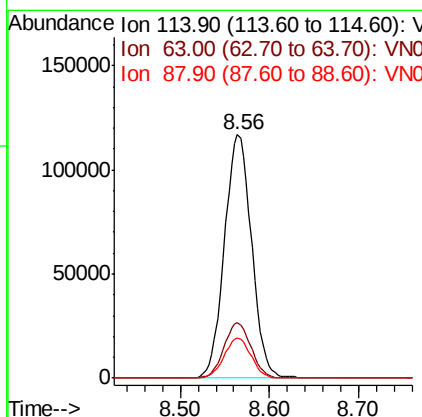
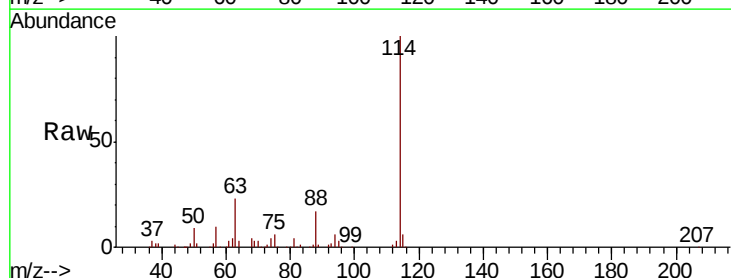
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 65 Resp: 96767
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060955.D
 Acq: 15 Apr 2020 12:50

Tgt Ion: 114 Resp: 245746
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.8
 88 16.5 0.0 33.0

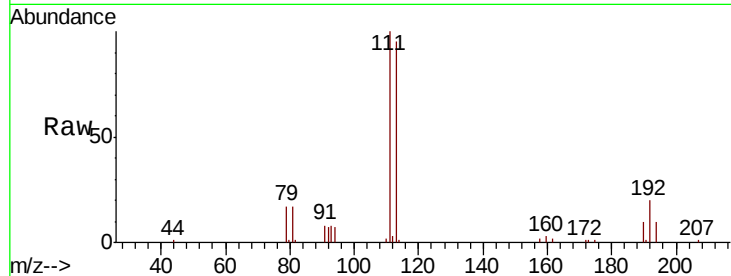




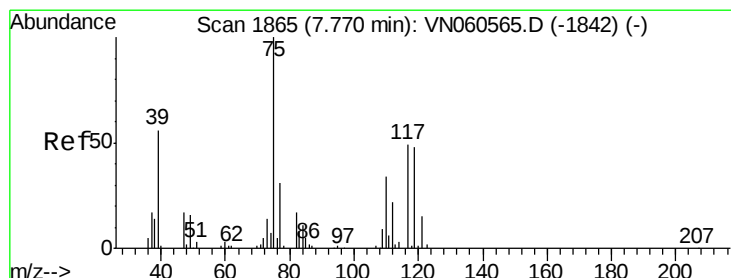
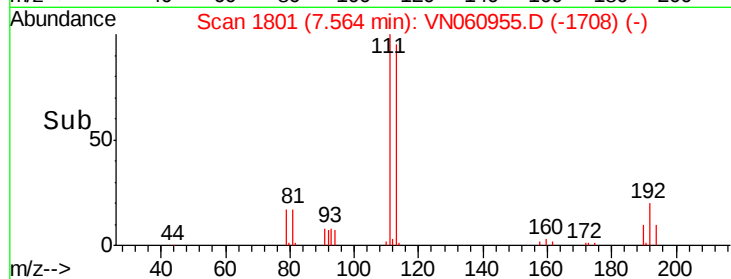
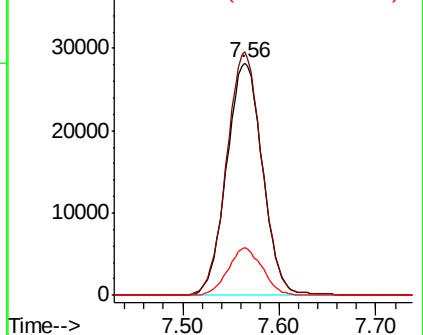
#35
 Dibromofluoromethane
 Concen: 49.090 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060955.D
 Acq: 15 Apr 2020 12:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 72945
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.9 124.3
 192 19.4 15.8 23.8

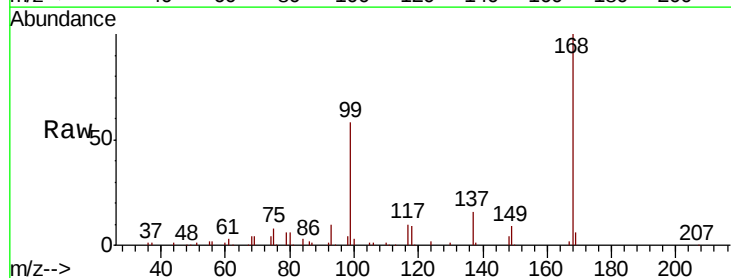


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

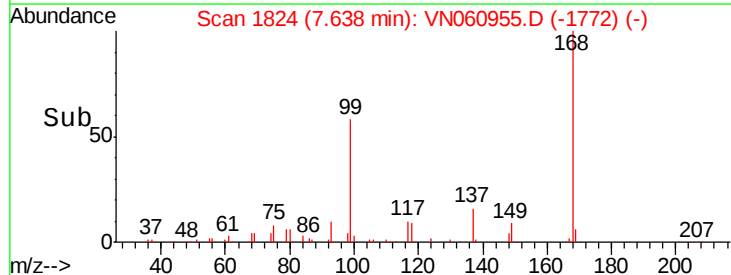
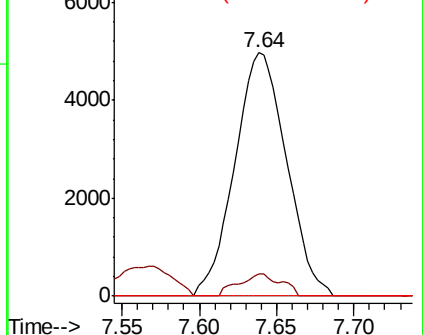


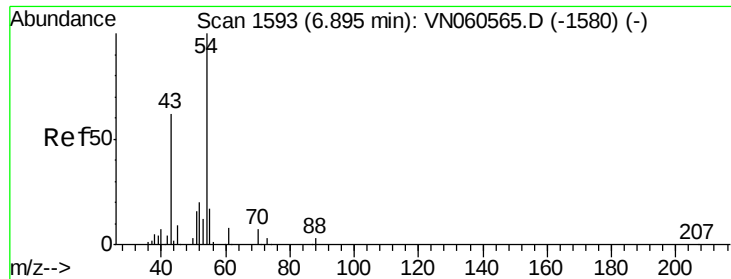
#36
 1,1-Dichloropropene
 Concen: 4.845 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060955.D
 Acq: 15 Apr 2020 12:50

Tgt Ion: 75 Resp: 11529
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.9 50.6#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

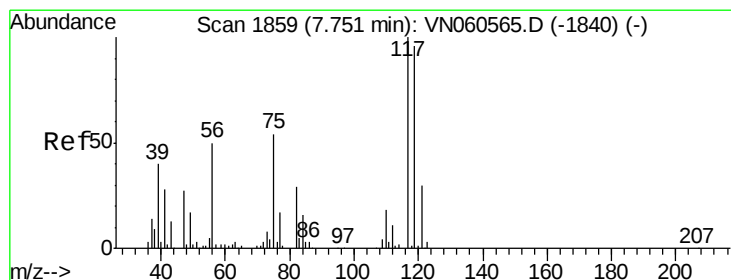
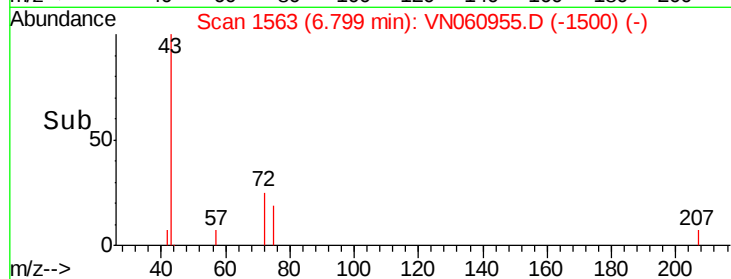
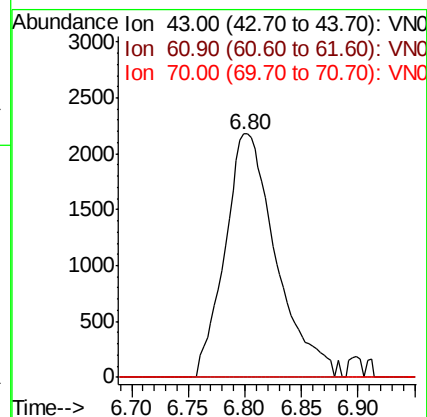
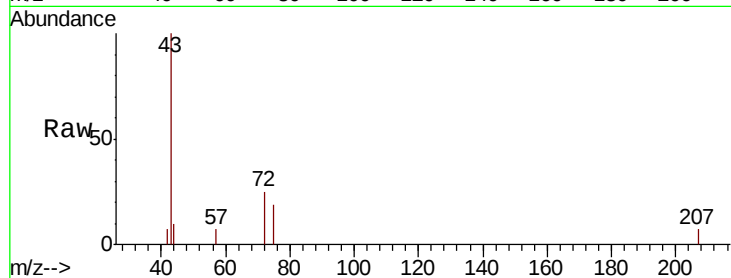




#37
Ethyl Acetate
Concen: 2.677 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

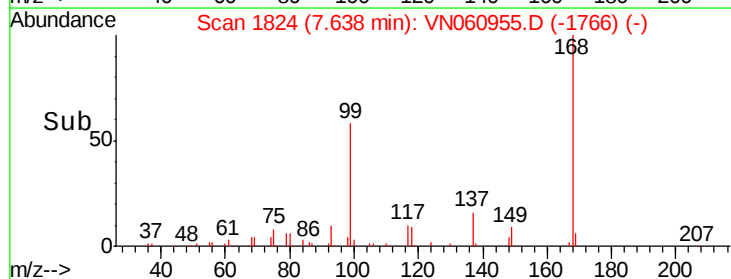
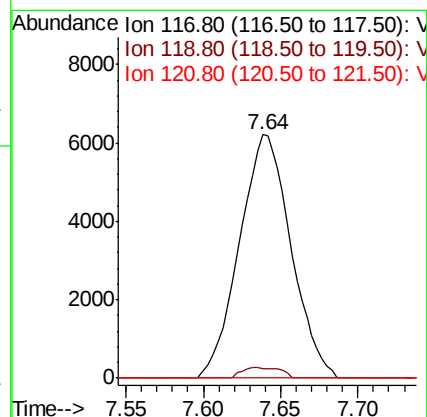
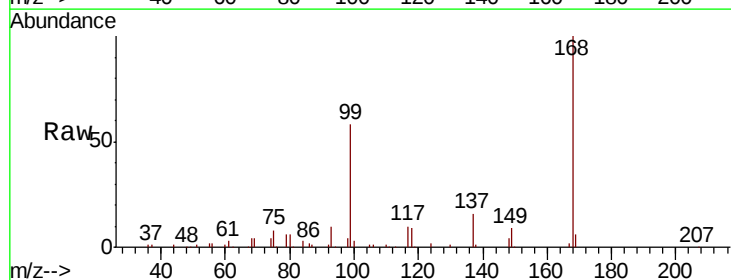
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MSVOA_N
ClientSampleId :

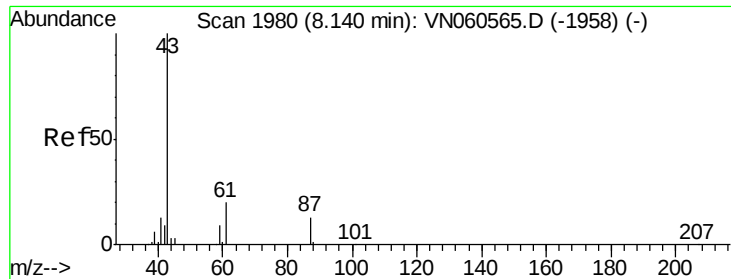
Tot Ion: 43 Resp: 6883
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.736 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.11 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion: 117 Resp: 14367
Ion Ratio Lower Upper
117 100
119 4.1 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.545 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampled :

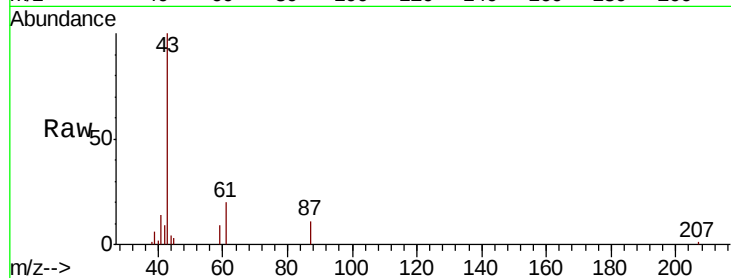
Tot Ion: 43 Resp: 44714

Ion Ratio Lower Upper

43 100

61 19.1 20.7 31.1#

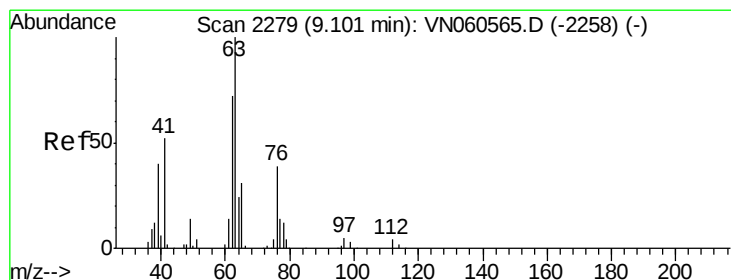
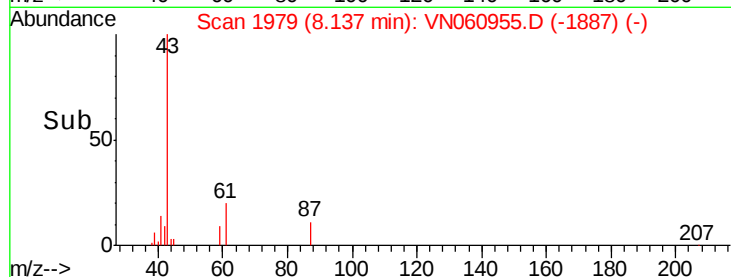
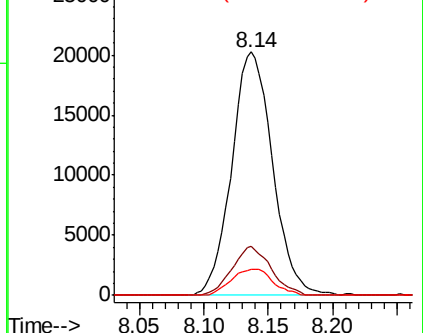
87 10.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060955.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060955.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060955.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.331 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060955.D

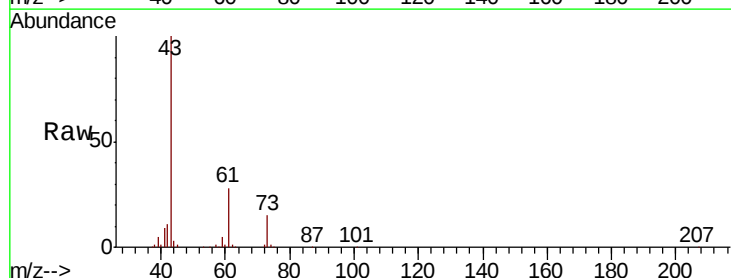
Acq: 15 Apr 2020 12:50

Tgt Ion: 63 Resp: 627

Ion Ratio Lower Upper

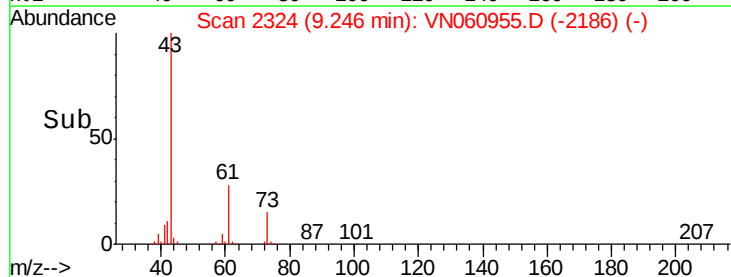
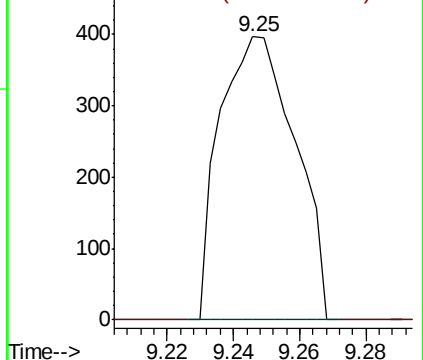
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060955.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060955.D (-2186) (-)

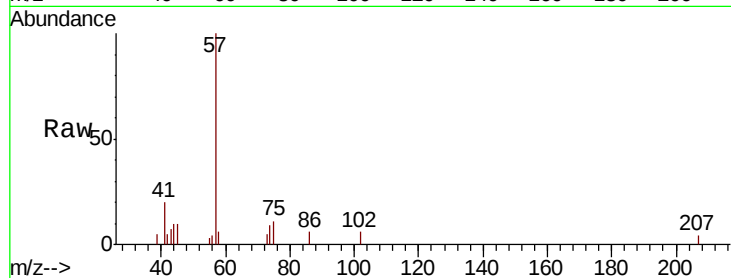




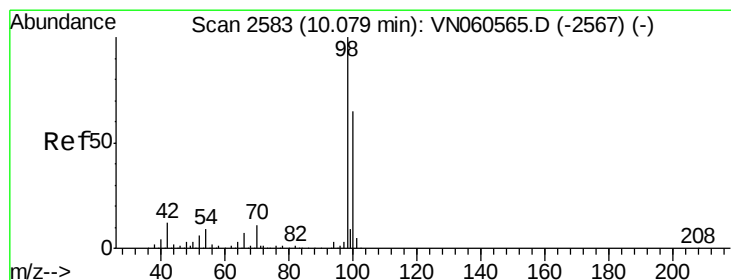
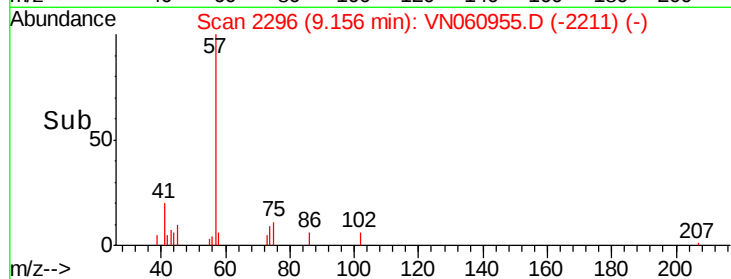
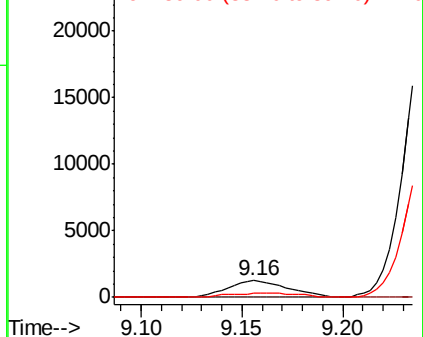
#48
Methvl methacrylate
Concen: 1.376 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2597
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

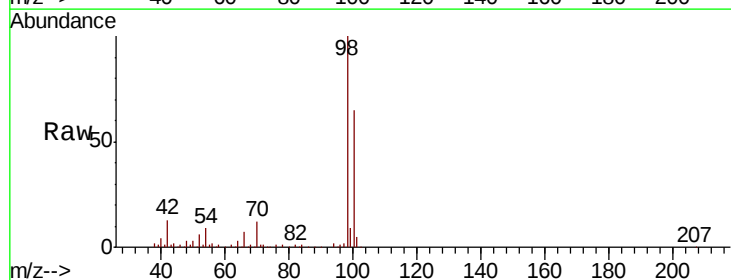


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

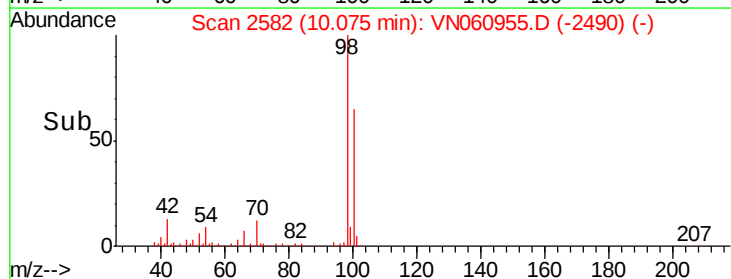
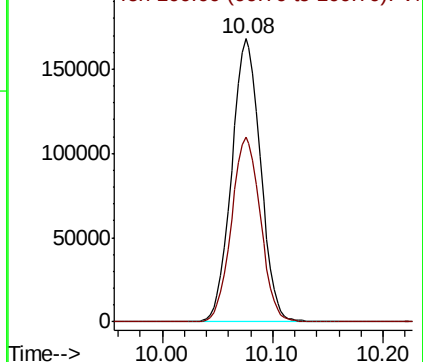


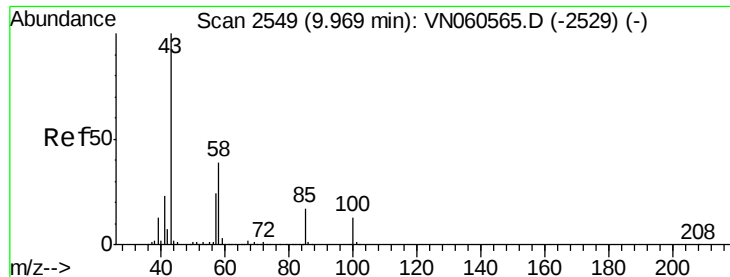
#50
Toluene-d8
Concen: 50.141 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion: 98 Resp: 304330
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.620 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

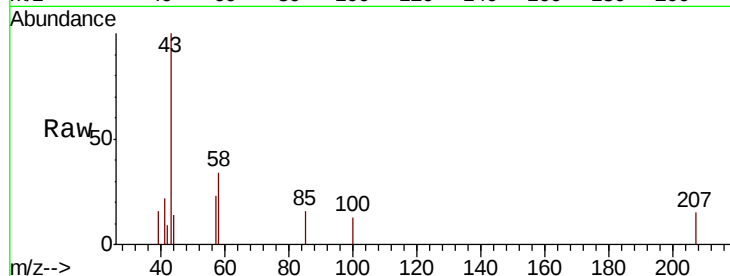
ClientSampled :

Tot Ion: 43 Resp: 3909

Ion Ratio Lower Upper

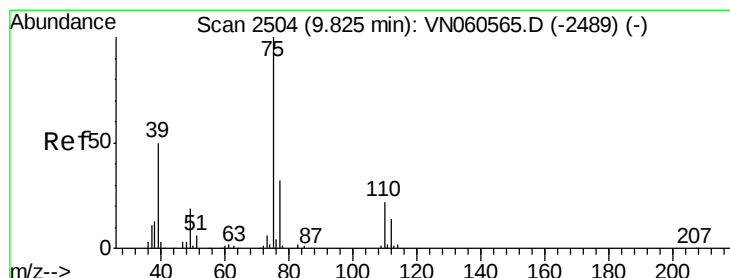
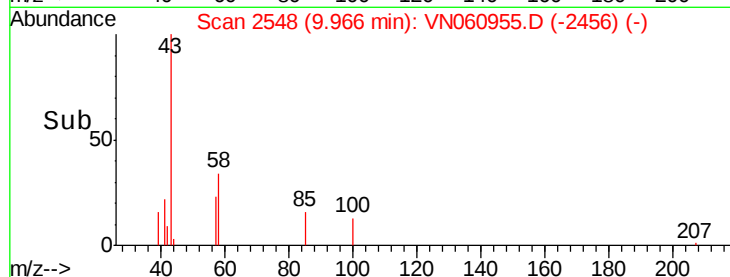
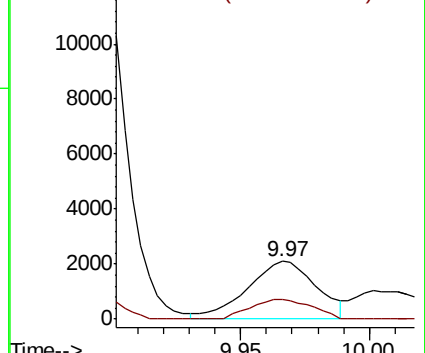
43 100

58 30.3 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.739 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

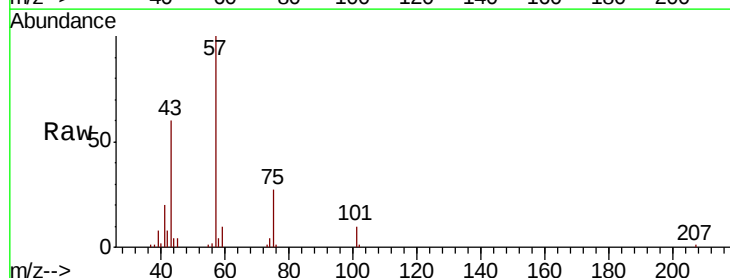
Tgt Ion: 75 Resp: 17220

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

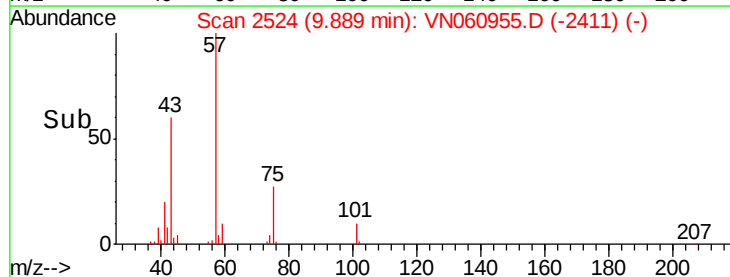
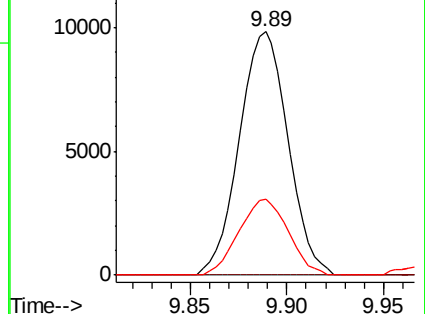
39 31.0 40.2 60.4#

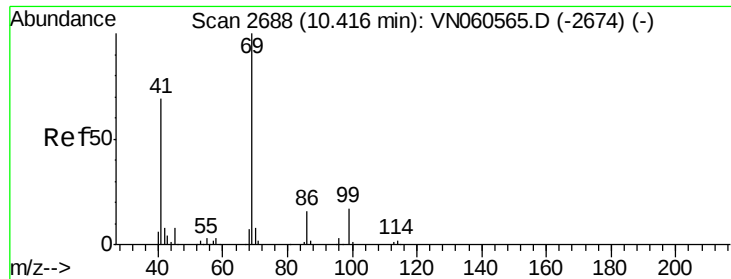


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.206 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampled :

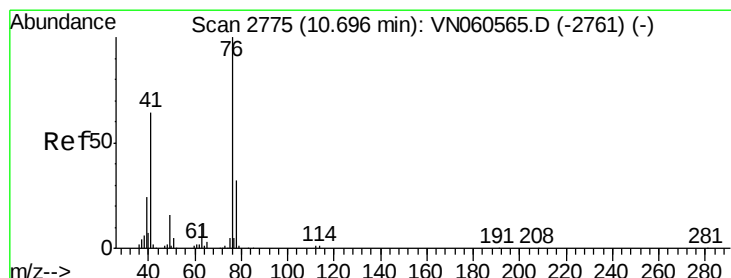
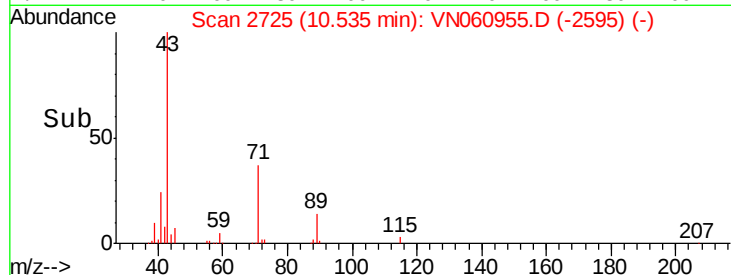
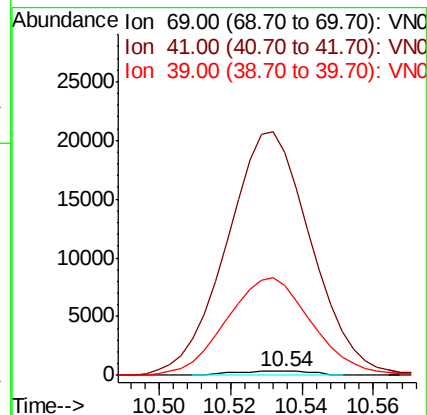
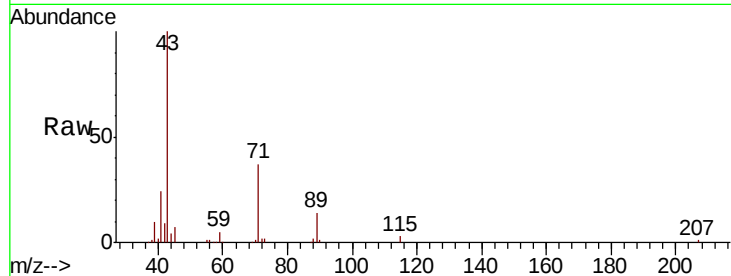
Tot Ion: 69 Resp: 537

Ion Ratio Lower Upper

69 100

41 6355.7 55.4 83.2#

39 2568.7 29.4 44.0#



#57

1,3-Dichloropropane

Concen: 0.800 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060955.D

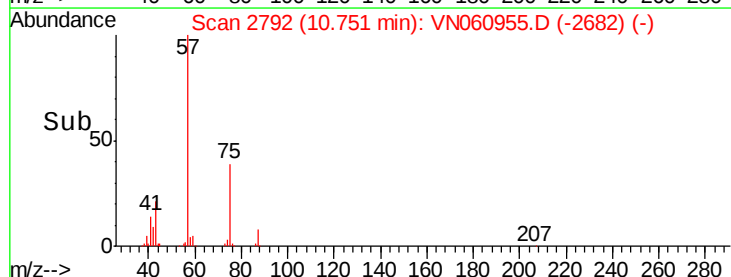
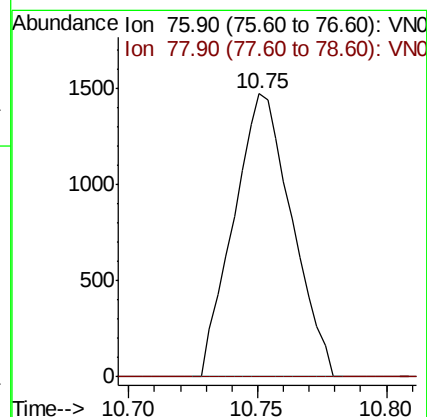
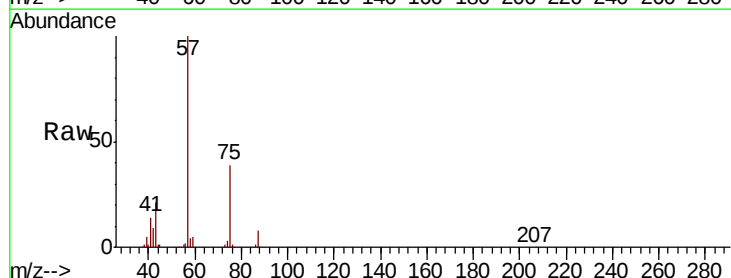
Acq: 15 Apr 2020 12:50

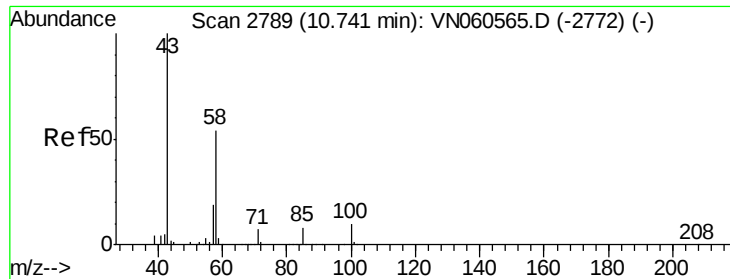
Tgt Ion: 76 Resp: 2316

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

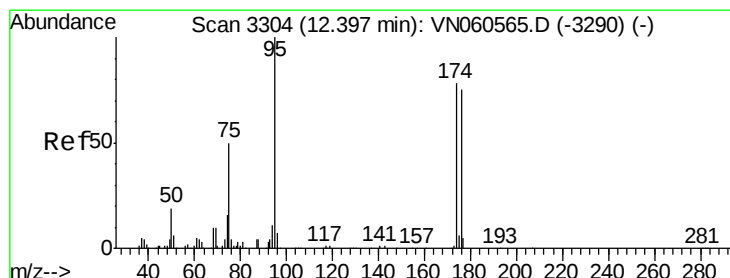
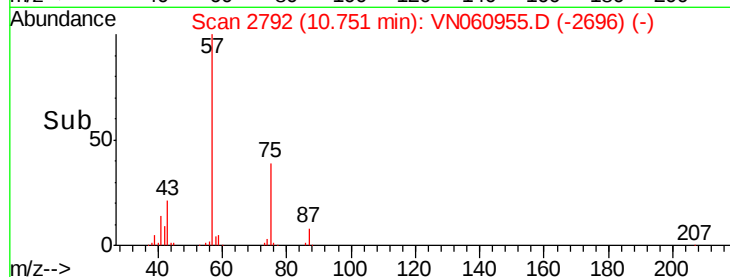
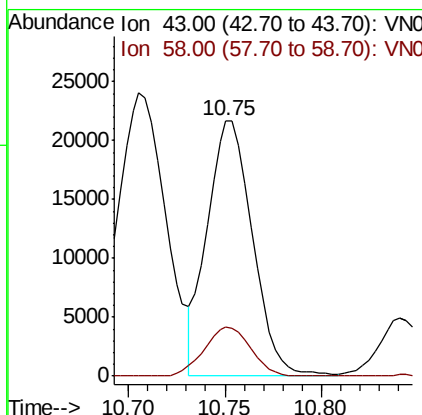
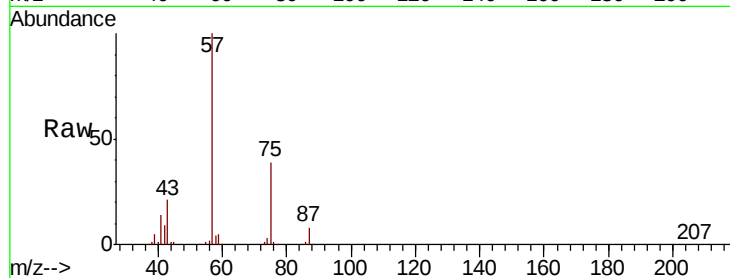




#59
2-Hexanone
Concen: 20.387 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

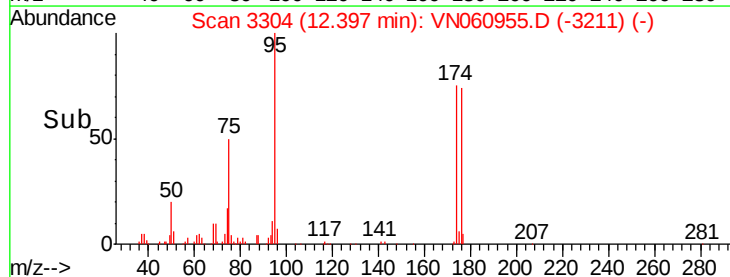
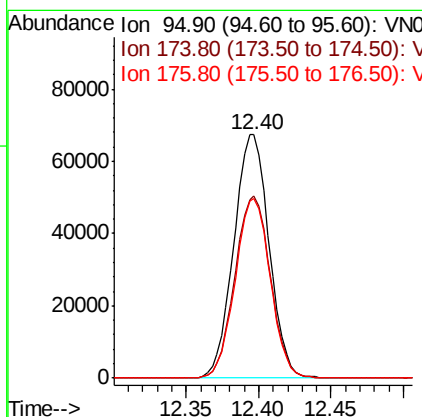
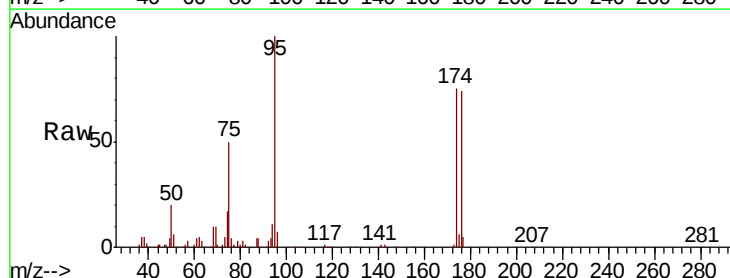
Instrument :
MSVOA_N
ClientSampled :

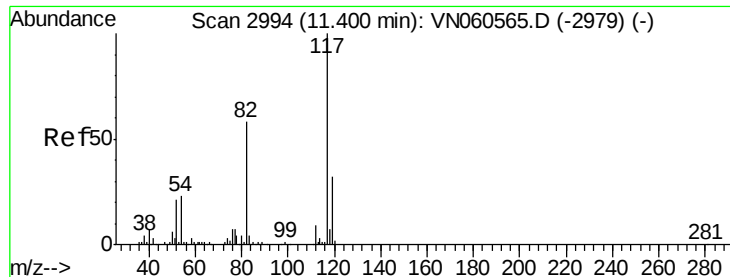
Tot Ion: 43 Resp: 35436
Ion Ratio Lower Upper
43 100
58 19.6 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.247 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion: 95 Resp: 113993
Ion Ratio Lower Upper
95 100
174 75.6 0.0 157.6
176 73.2 0.0 150.6

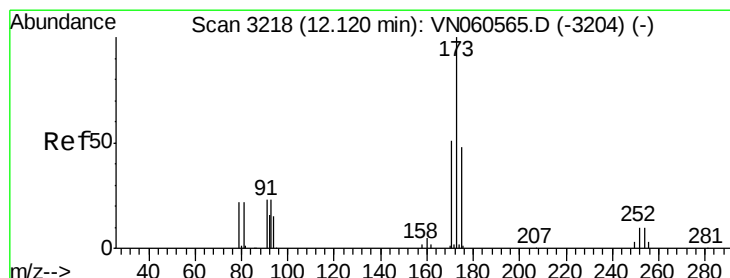
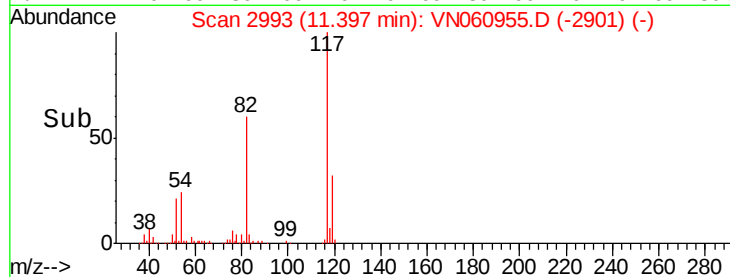
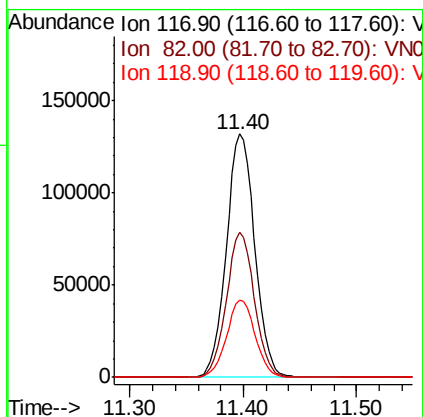
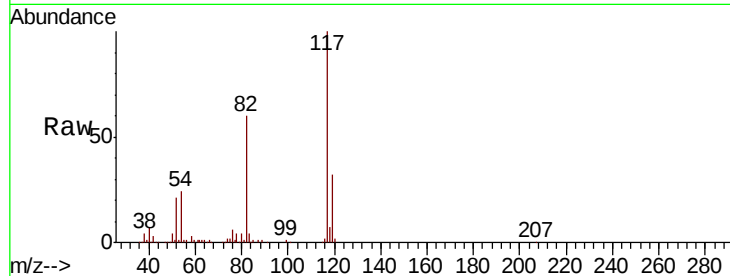




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

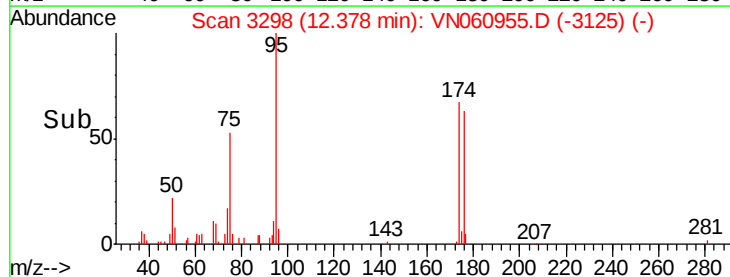
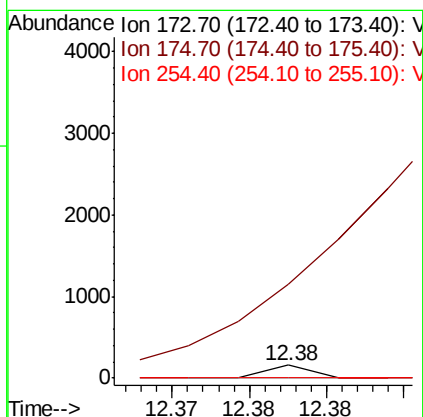
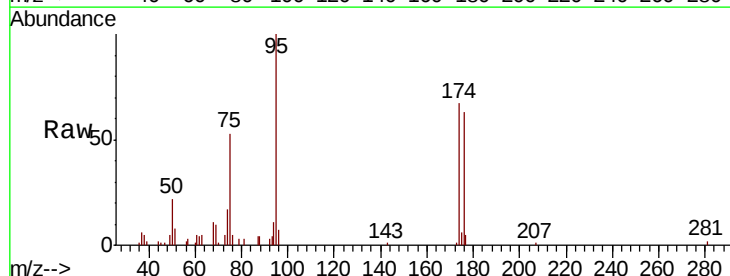
Instrument :
MSVOA_N
ClientSampleId :

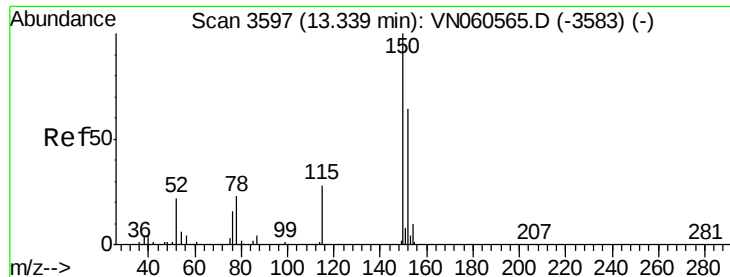
Tot Ion:117 Resp: 230102
Ion Ratio Lower Upper
117 100
82 59.6 46.7 70.1
119 31.9 25.5 38.3



#71
Bromoform
Concen: 1.702 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.26 min
Lab File: VN060955.D
Acq: 15 Apr 2020 12:50

Tgt Ion:173 Resp: 30
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampleId :

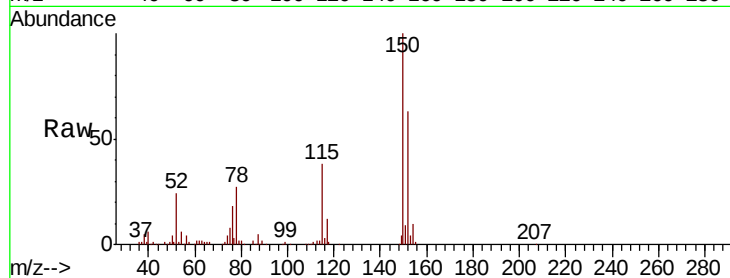
Tot Ion:152 Resp: 101465

Ion Ratio Lower Upper

152 100

115 60.4 30.2 90.6

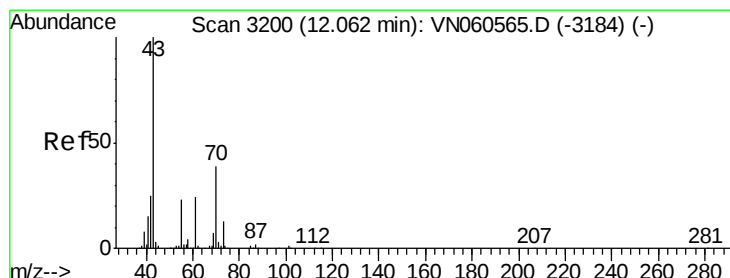
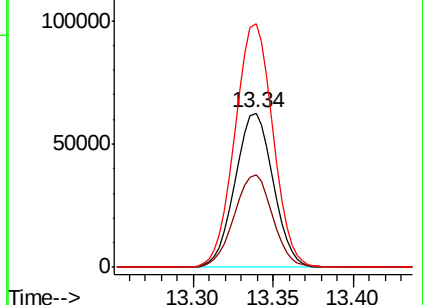
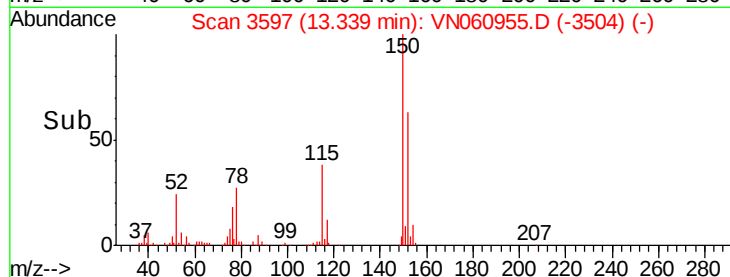
150 157.8 0.0 350.2



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: 0.693 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Tgt Ion: 43 Resp: 2438

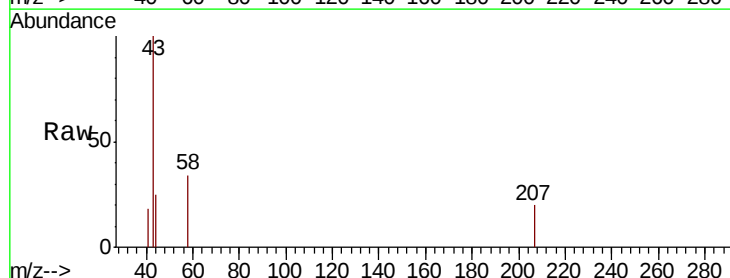
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

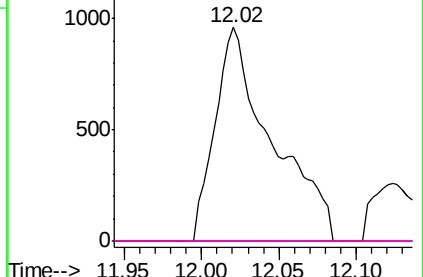
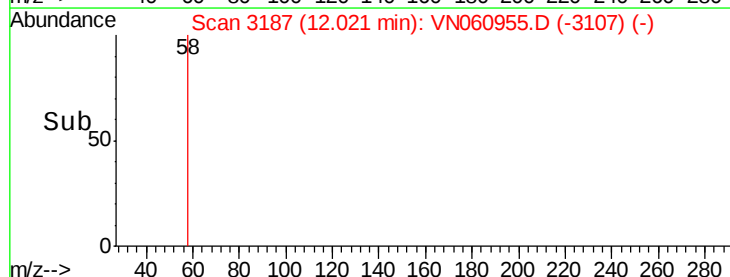


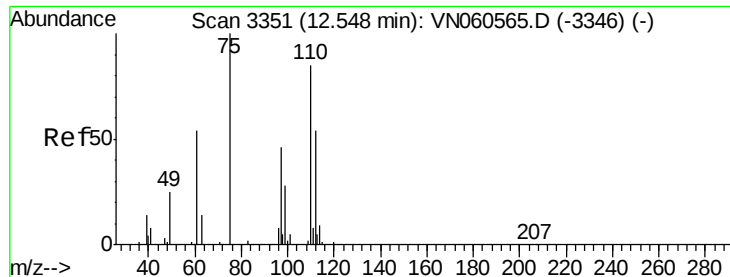
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 26.657 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

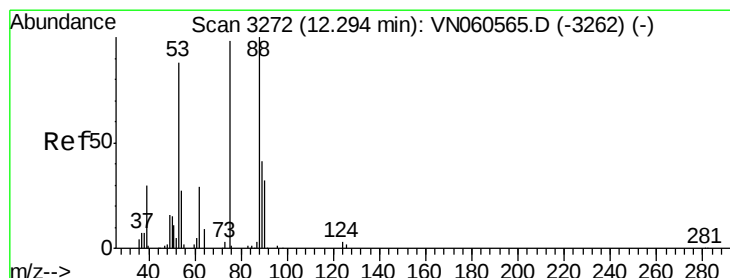
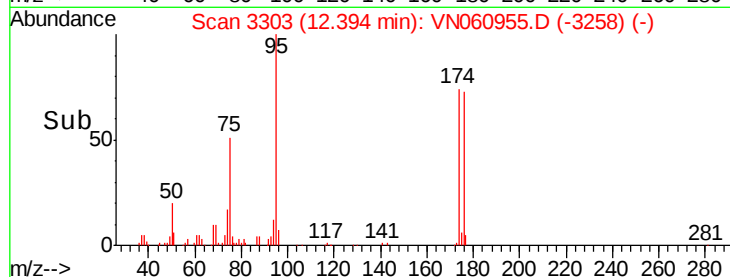
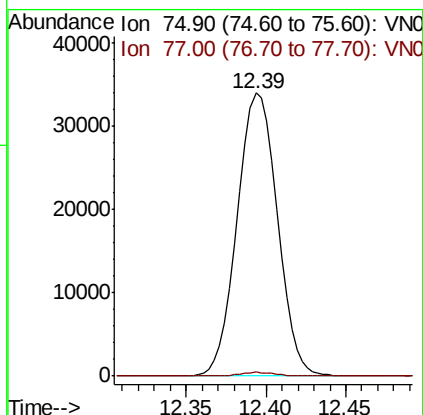
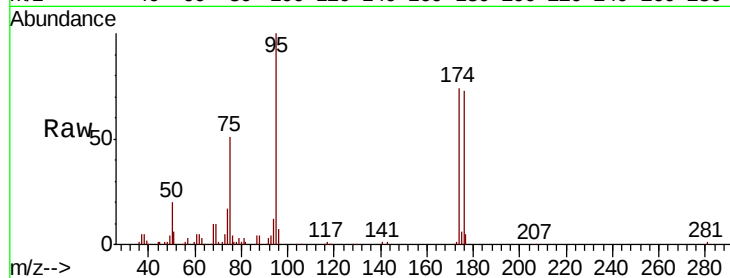
ClientSampleId :

Tot Ion: 75 Resp: 58362

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.462 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

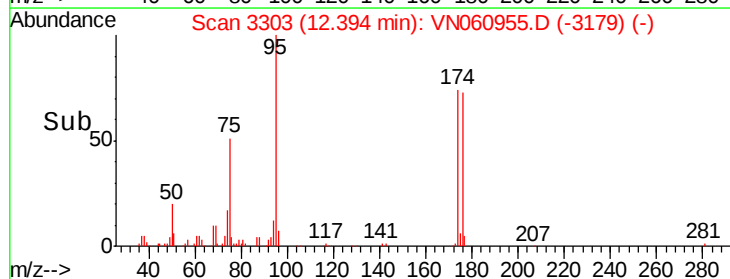
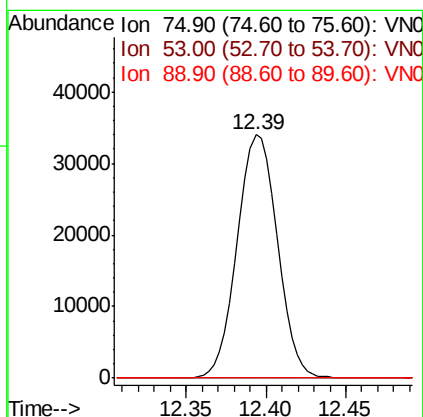
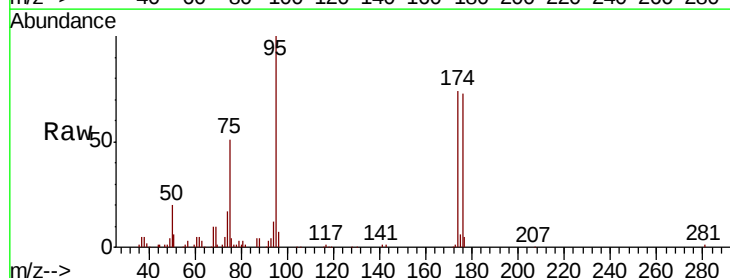
Tgt Ion: 75 Resp: 58362

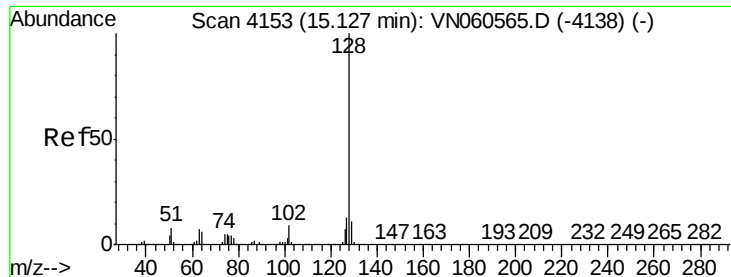
Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 0.351 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

Instrument :

MSVOA_N

ClientSampled :

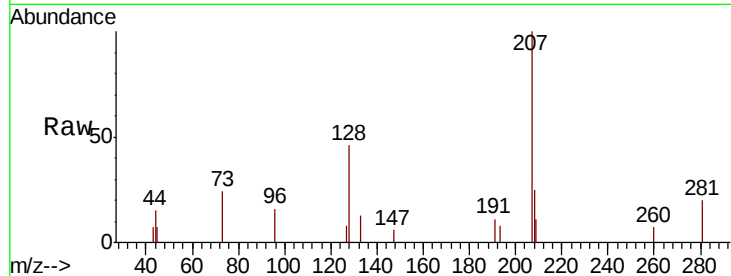
Tot Ion:128 Resp: 2006

Ion Ratio Lower Upper

128 100

127 5.0 10.2 15.2#

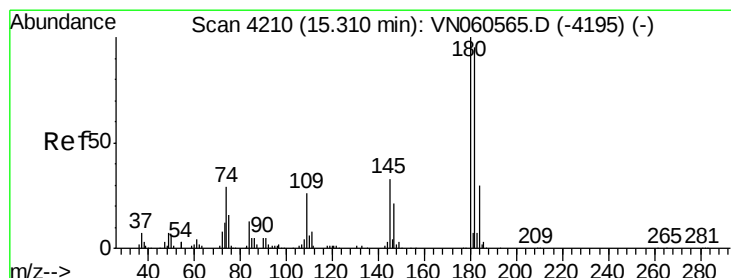
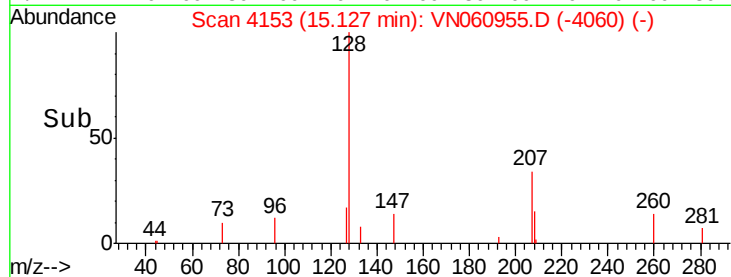
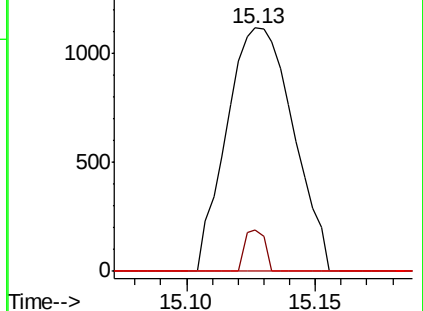
129 0.0 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.212 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060955.D

Acq: 15 Apr 2020 12:50

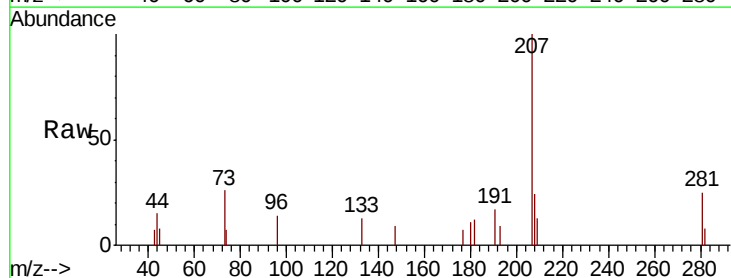
Tgt Ion:180 Resp: 396

Ion Ratio Lower Upper

180 100

182 83.3 47.5 142.6

145 0.0 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

