

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057840.D
 Acq On : 10 Sep 2019 6:52
 Operator : JC/SP
 Sample : K4622-25
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

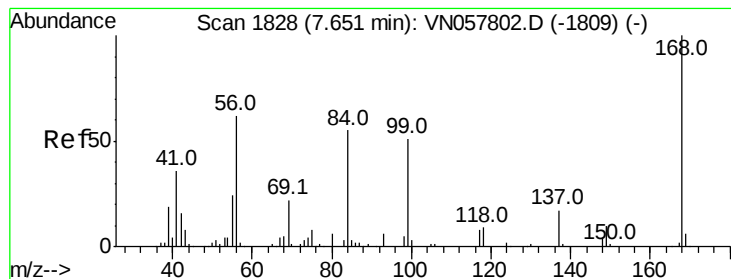
Quant Time: Sep 10 08:44:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	304422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	523056	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	485584	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	246873	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	339294	55.03	ug/l	0.00
Spiked Amount			Recovery	=	110.06%	
35) Dibromofluoromethane	7.58	113	228117	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
50) Toluene-d8	10.09	98	948569	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
62) 4-Bromofluorobenzene	12.40	95	303856	42.54	ug/l	0.00
Spiked Amount			Recovery	=	85.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	150	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	733	0.982	ug/l #	72
16) Acetone	3.80	43	9718	4.808	ug/l	98
17) Carbon Disulfide	4.03	76	329	0.224	ug/l #	75
18) Methyl Acetate	4.31	43	3715	0.689	ug/l	95
20) Methylene Chloride	4.53	84	7855	0.831	ug/l #	81
25) 2-Butanone	6.83	43	1490	0.509	ug/l #	73
31) Cyclohexane	7.65	56	7942	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	26077	4.299	ug/l #	52
38) Carbon Tetrachloride	7.65	117	30960	5.590	ug/l #	15
43) Isopropyl Acetate	8.16	43	100453	9.531	ug/l #	87
45) 1,2-Dichloropropane	9.26	63	1603	0.302	ug/l #	44
48) Methyl methacrylate	9.26	41	139945	26.175	ug/l #	47
51) 4-Methyl-2-Pentanone	9.98	43	6139	0.984	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	35505	4.762	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	5694	0.678	ug/l #	43
59) 2-Hexanone	10.76	43	87108	18.633	ug/l #	53
74) N-amyl acetate	12.04	43	1877	0.225	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	165885	29.704	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	165885	104.527	ug/l #	6
95) Naphthalene	15.14	128	948	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.30	180	99	1.018	ug/l #	84

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

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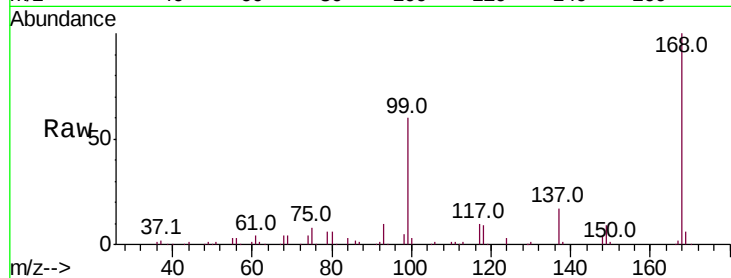
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 304422

Ion Ratio Lower Upper

168 100

99 59.9 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

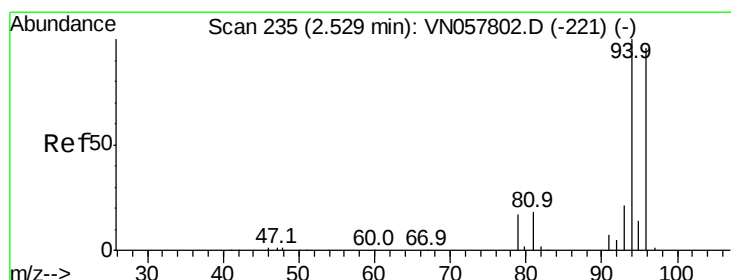
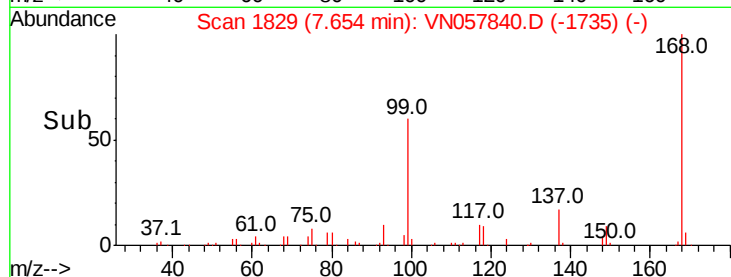
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN057840.D

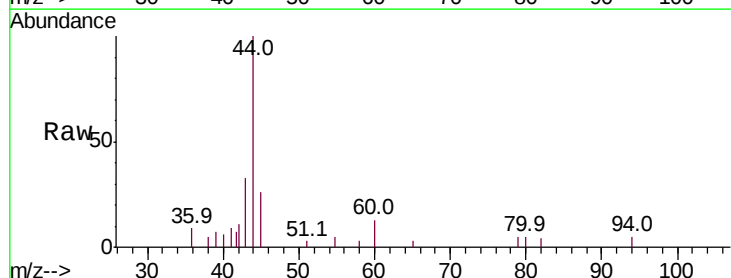
Acq: 10 Sep 2019 6:52

Tgt Ion: 94 Resp: 150

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.54

300

250

200

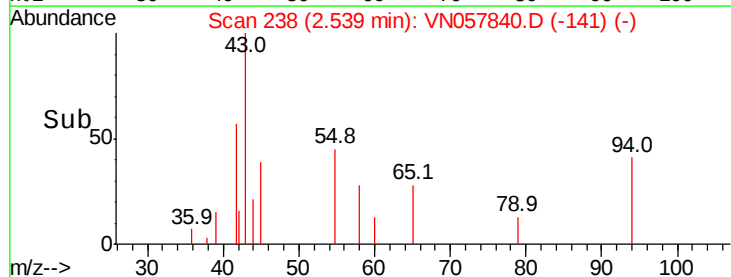
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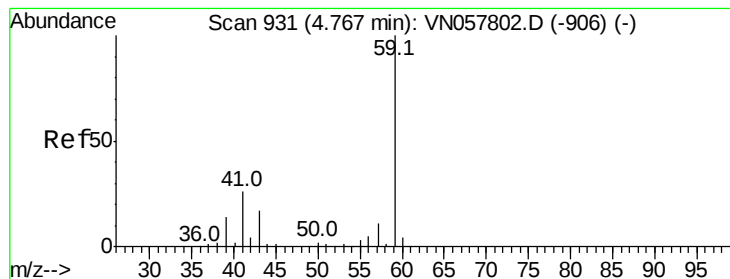
100

50

0

Time-->



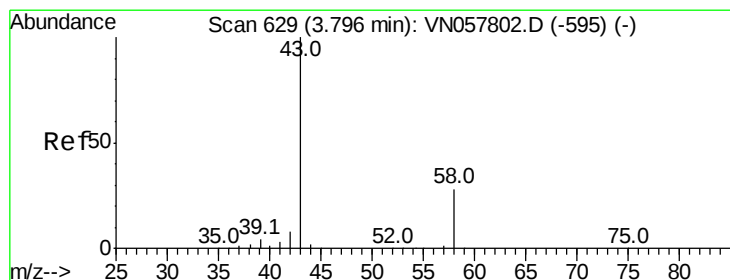
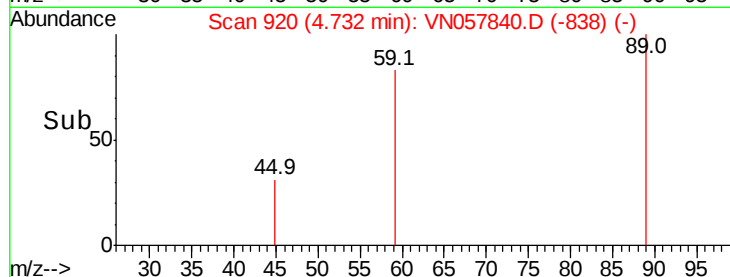
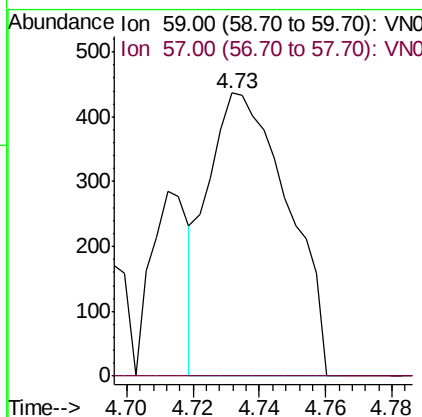
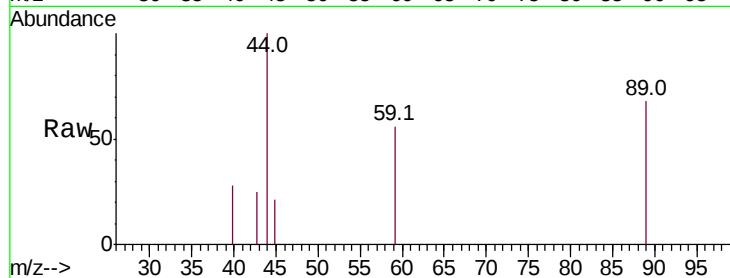


#11

Tert butyl alcohol
 Concen: 0.982 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. -0.04 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Instrument :
 MSVOA_N
 ClientSampled :

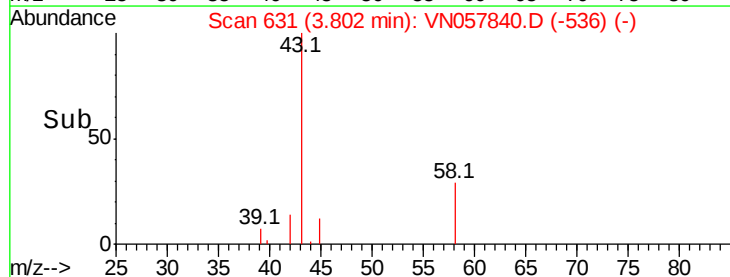
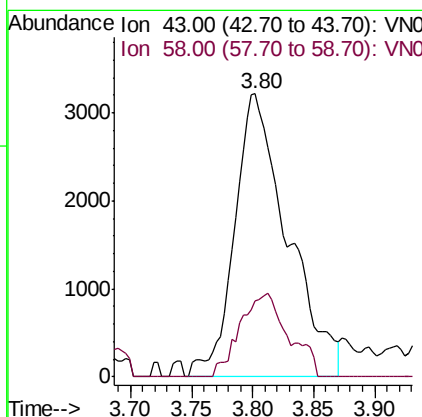
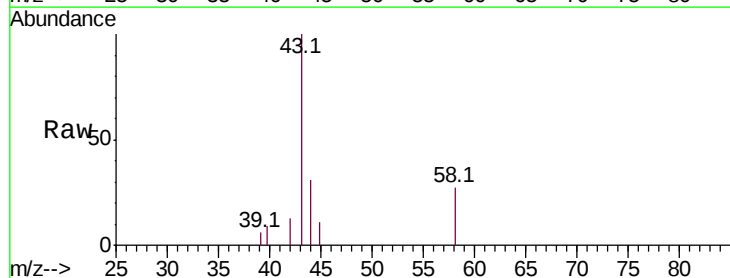
Tot Ion: 59 Resp: 733
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

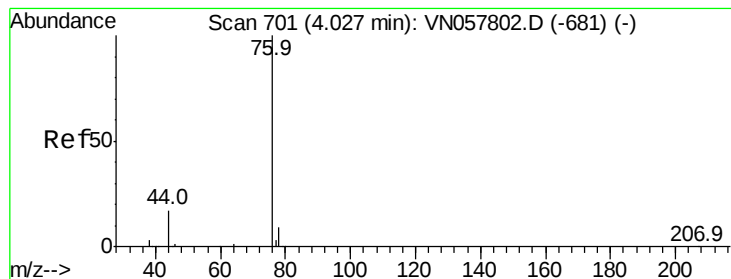


#16

Acetone
 Concen: 4.808 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Tgt Ion: 43 Resp: 9718
 Ion Ratio Lower Upper
 43 100
 58 26.6 22.2 33.2





#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

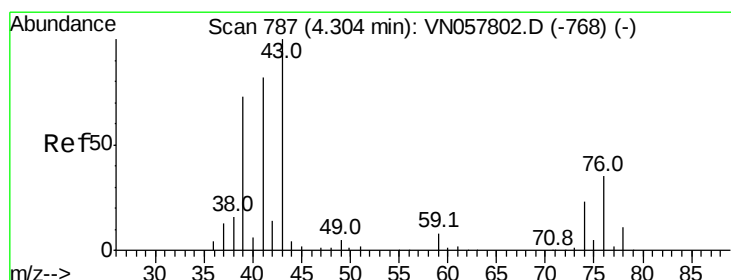
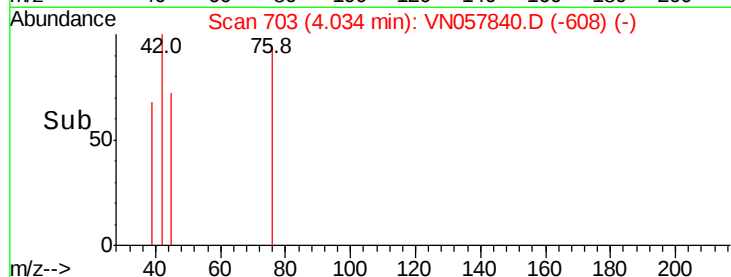
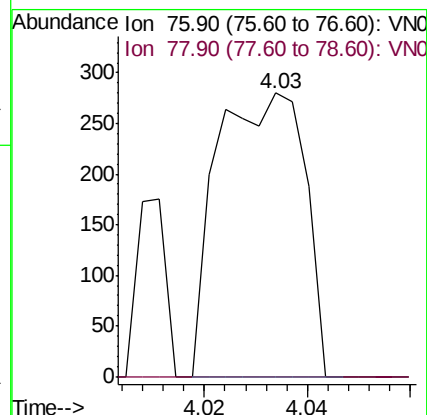
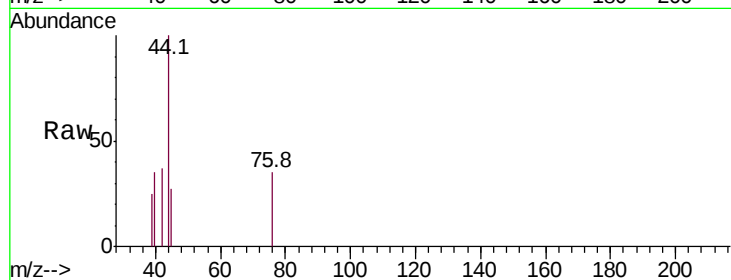
ClientSampleId :

Tot Ion: 76 Resp: 329

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 0.689 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN057840.D

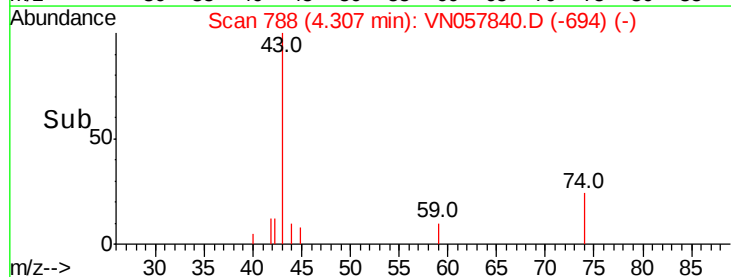
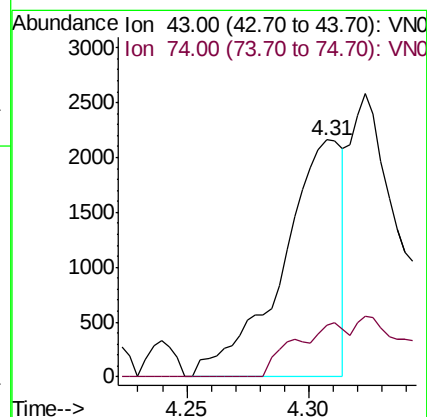
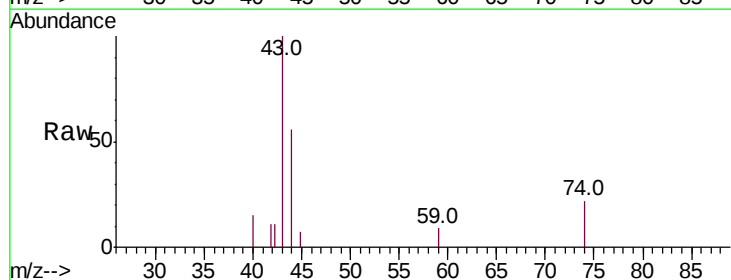
Acq: 10 Sep 2019 6:52

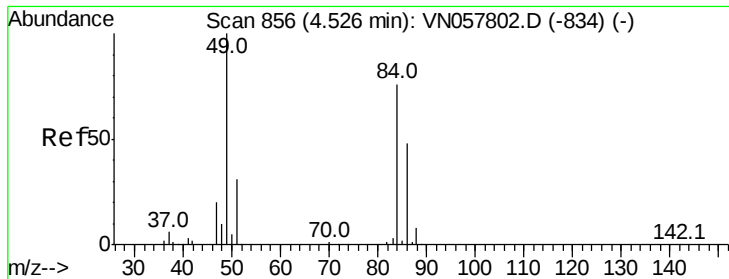
Tgt Ion: 43 Resp: 3715

Ion Ratio Lower Upper

43 100

74 20.2 17.9 26.9





#20

Methvlene Chloride

Concen: 0.831 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 7855

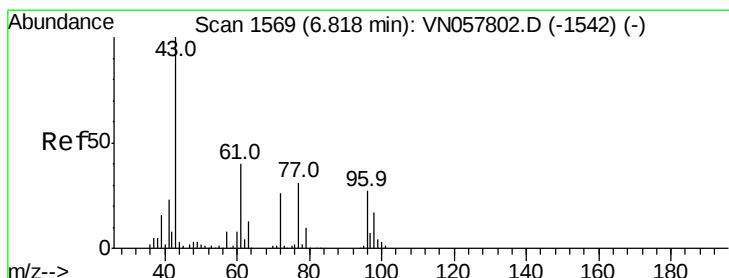
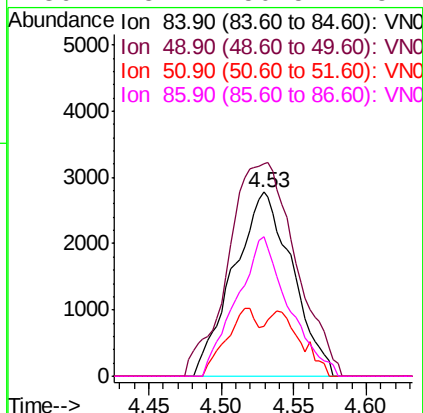
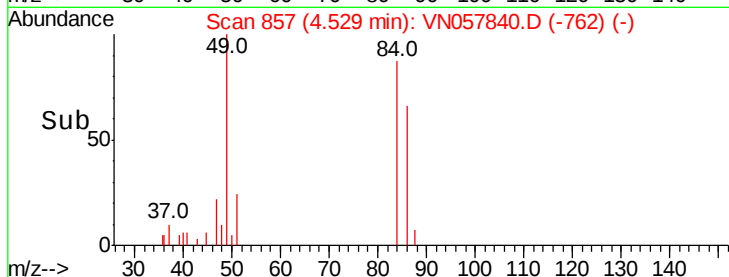
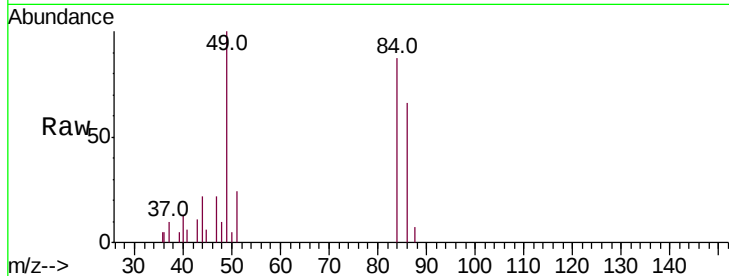
Ion Ratio Lower Upper

84 100

49 108.6 104.8 157.2

51 27.3 33.0 49.4#

86 75.7 50.5 75.7#



#25

2-Butanone

Concen: 0.509 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN057840.D

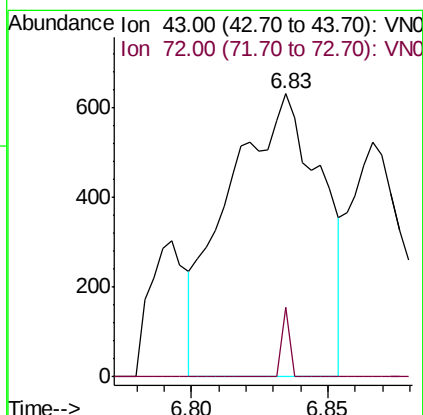
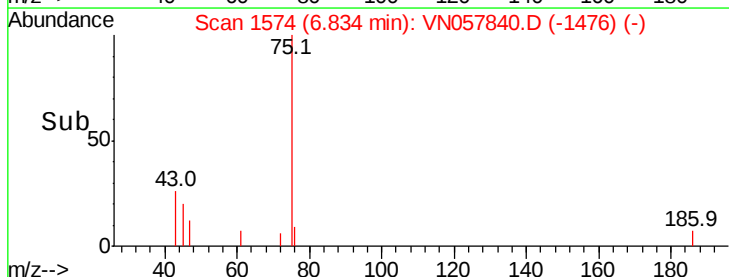
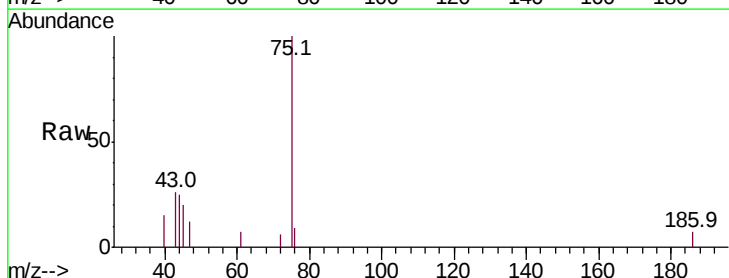
Acq: 10 Sep 2019 6:52

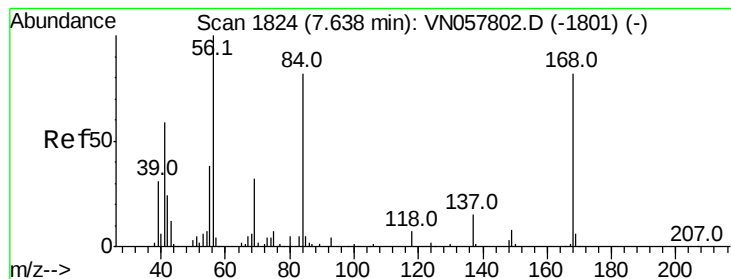
Tgt Ion: 43 Resp: 1490

Ion Ratio Lower Upper

43 100

72 39.2 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

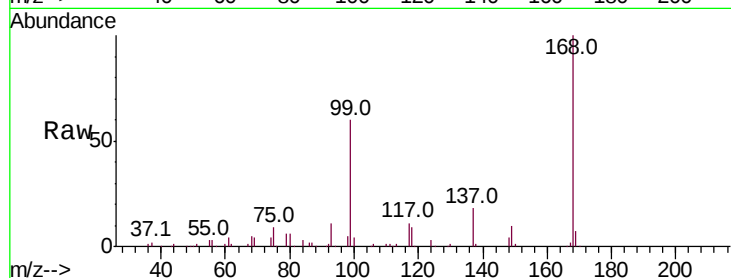
Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

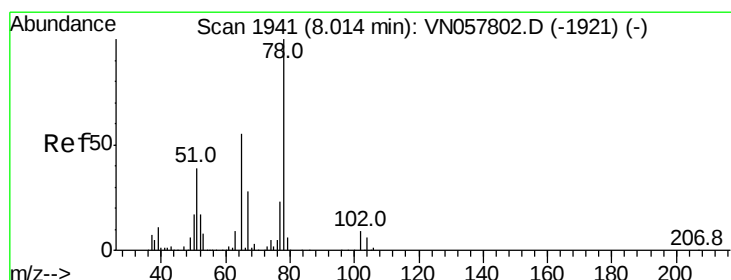
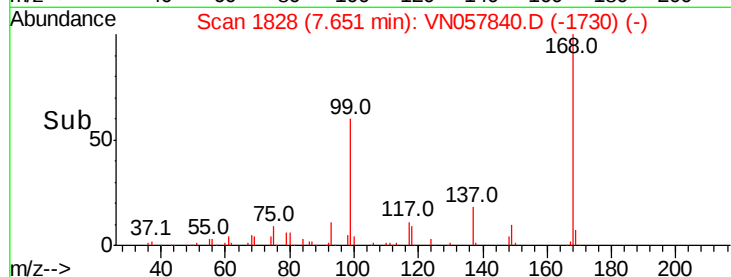
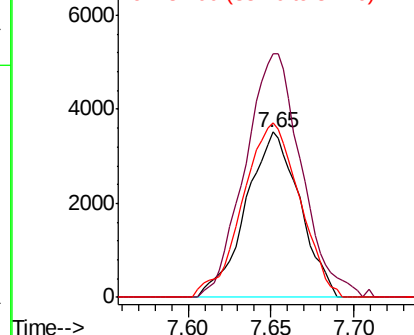
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7942

Ion	Ratio	Lower	Upper
56	100		
69	147.2	25.9	38.9#
84	105.8	65.6	98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 55.028 ug/l

RT: 8.01 min Scan# 1941

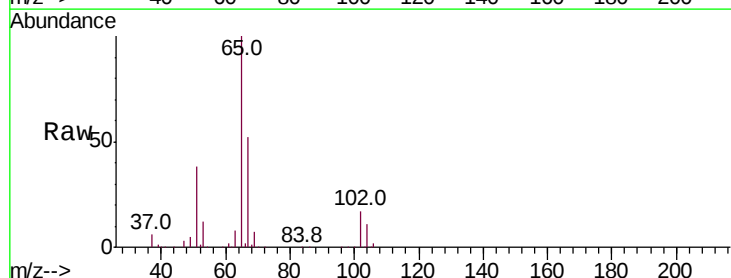
Delta R.T. 0.00 min

Lab File: VN057840.D

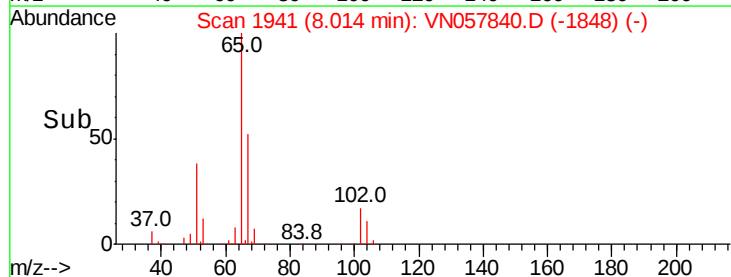
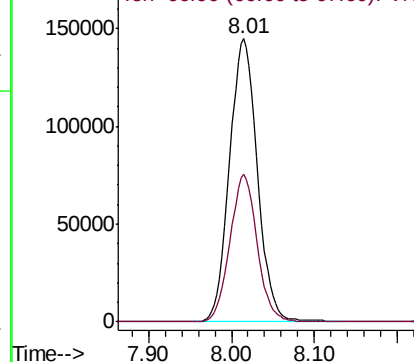
Acq: 10 Sep 2019 6:52

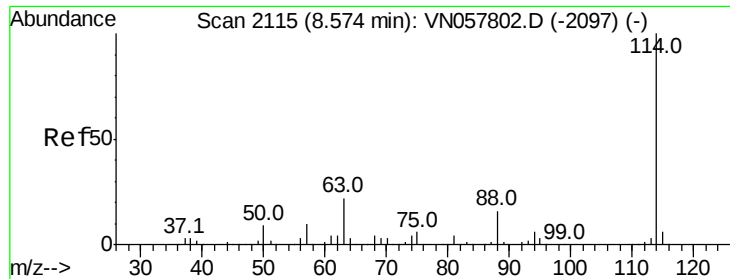
Tgt Ion: 65 Resp: 339294

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	104.0



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

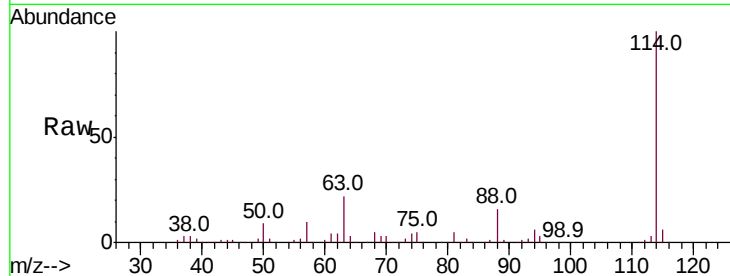




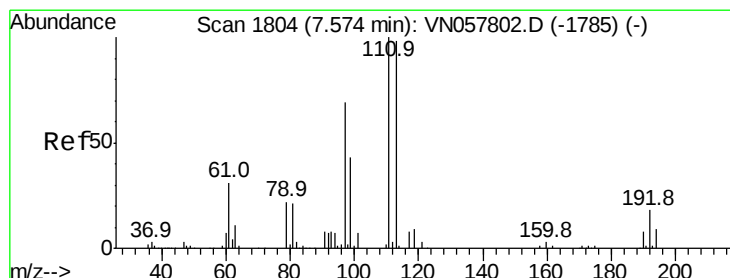
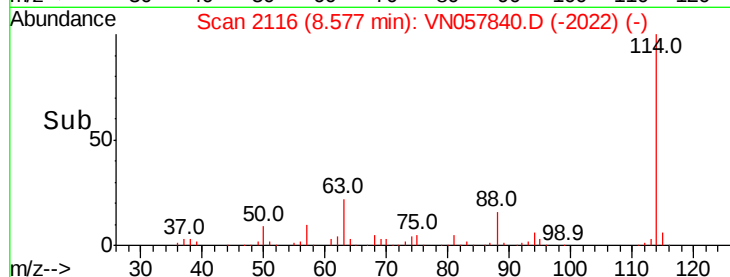
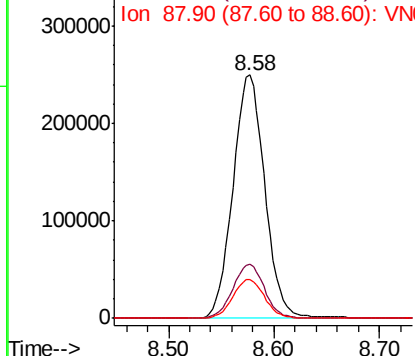
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.0
88	15.8	0.0	31.4

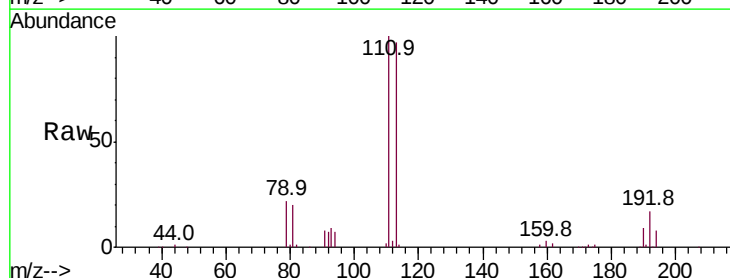


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

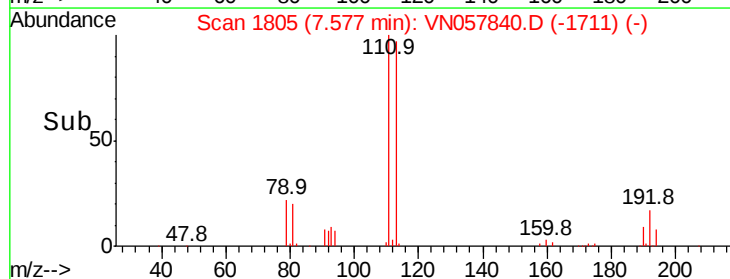
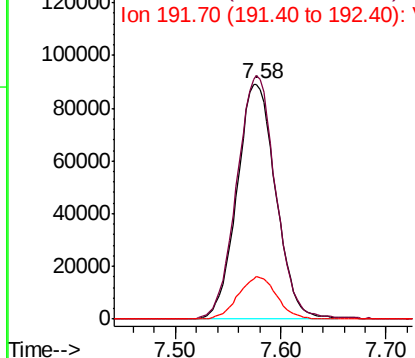


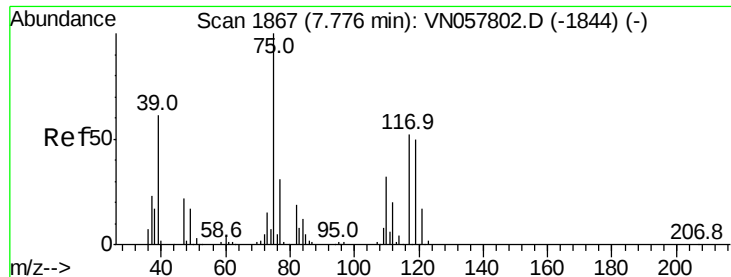
#35
 Dibromofluoromethane
 Concen: 47.253 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.1	81.3	121.9
192	17.9	14.6	22.0



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

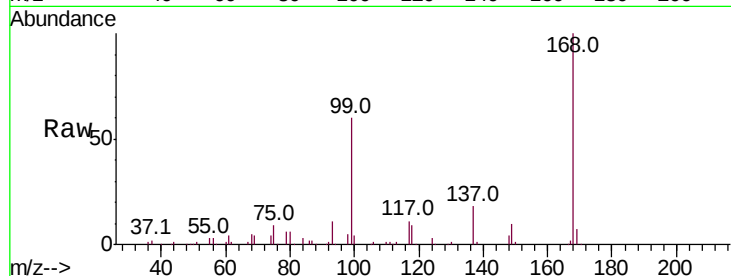




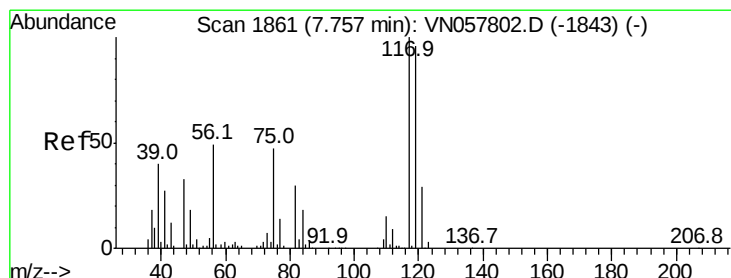
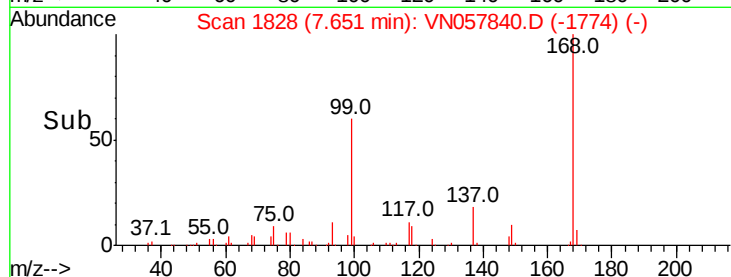
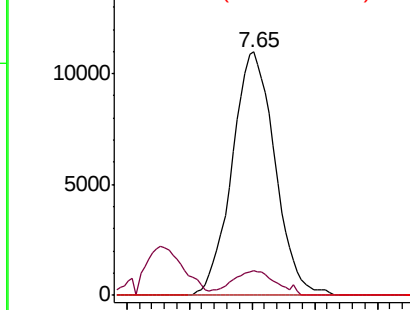
#36
 1,1-Dichloropropene
 Concen: 4.299 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.2	16.3	48.9#
77	0.0	25.0	37.4#

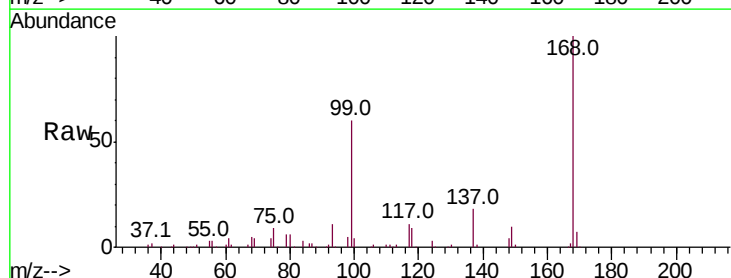


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

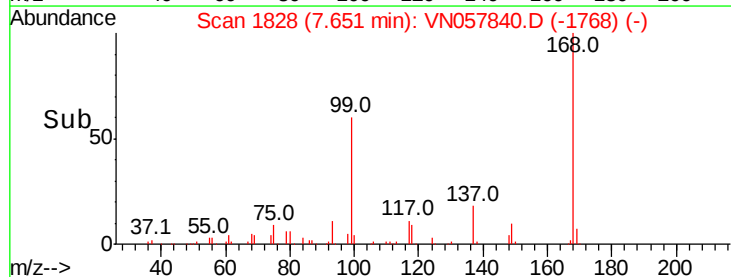
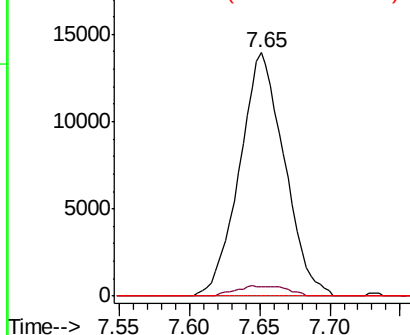


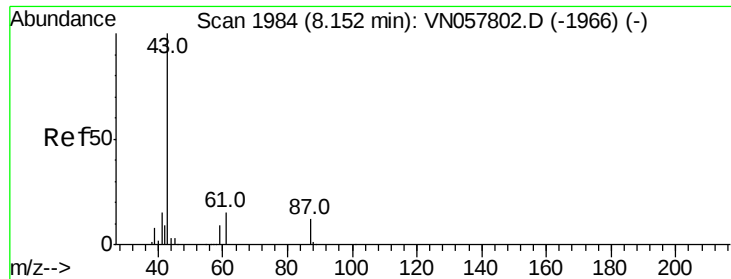
#38
 Carbon Tetrachloride
 Concen: 5.590 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 9.531 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

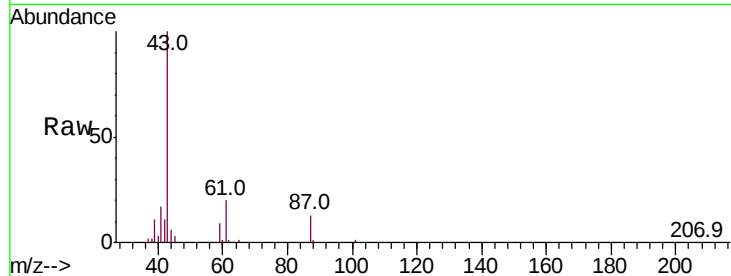
Tot Ion: 43 Resp: 100453

Ion Ratio Lower Upper

43 100

61 16.2 20.1 30.1#

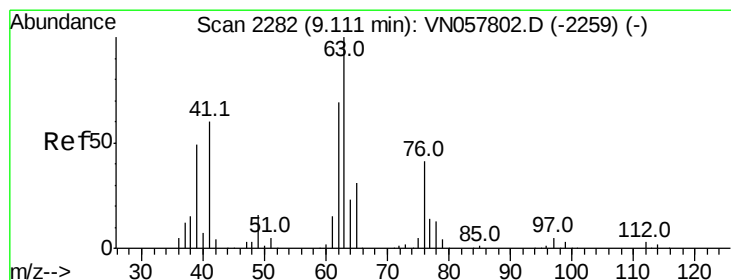
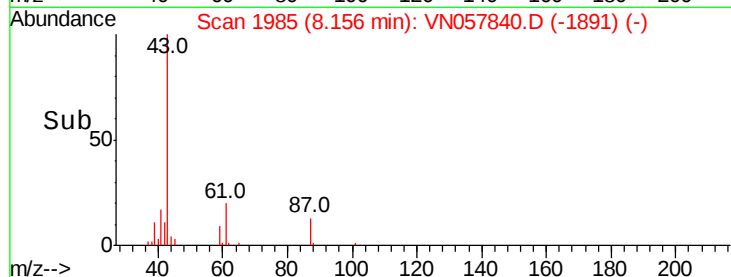
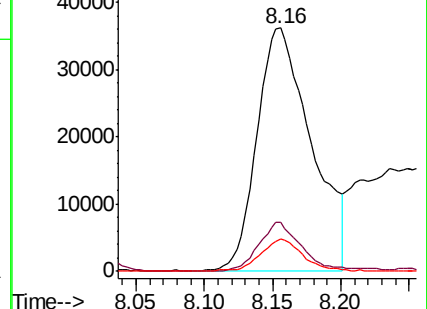
87 10.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN057840.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057840.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057840.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.302 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057840.D

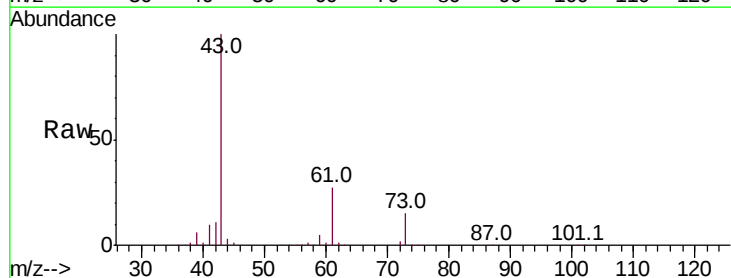
Acq: 10 Sep 2019 6:52

Tgt Ion: 63 Resp: 1603

Ion Ratio Lower Upper

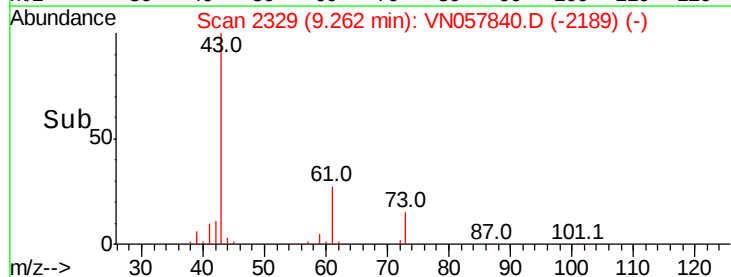
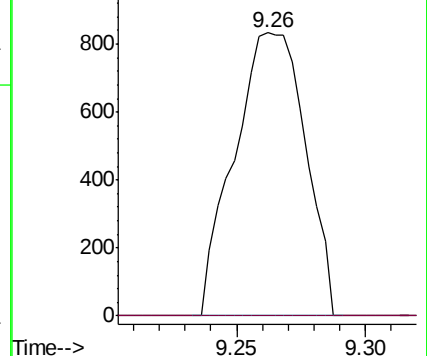
63 100

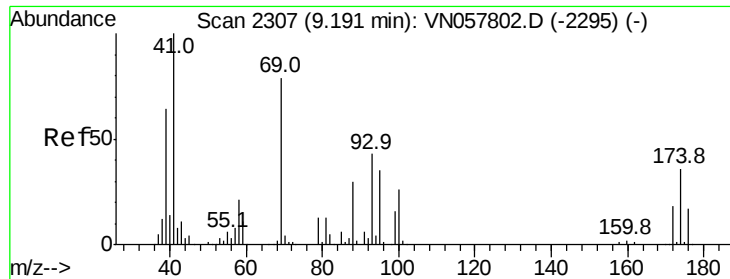
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057840.D (-2189) (-)

Ion 64.90 (64.60 to 65.60): VN057840.D (-2189) (-)





#48

Methvl methacrylate

Concen: 26.175 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.07 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :
MSVOA_N
ClientSampled :

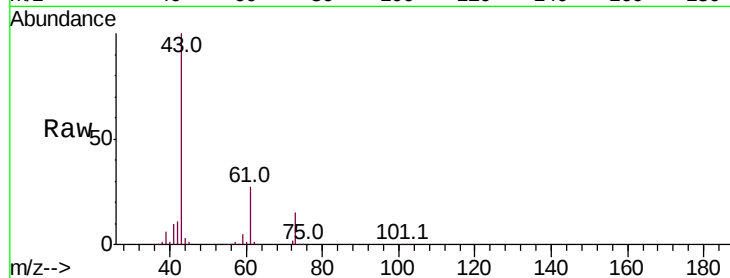
Tot Ion: 41 Resp: 139945

Ion Ratio Lower Upper

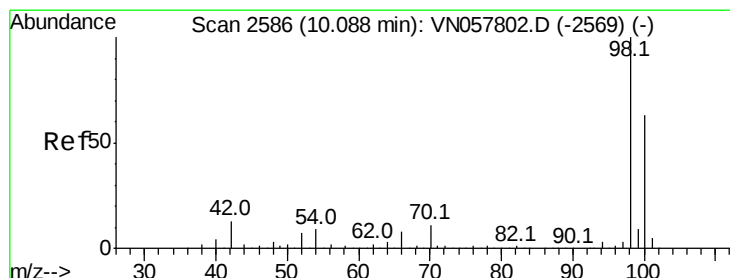
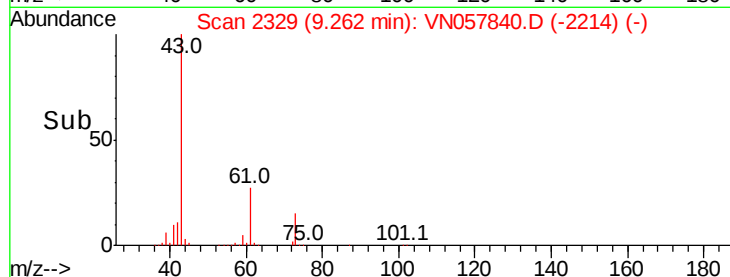
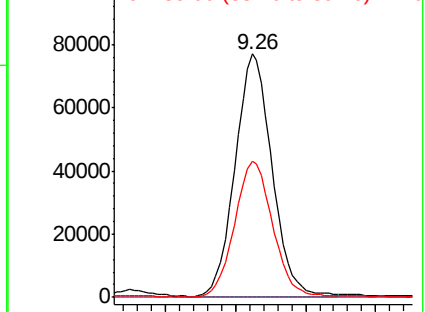
41 100

69 0.0 62.7 94.1#

39 58.8 52.7 79.1



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: 50.608 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057840.D

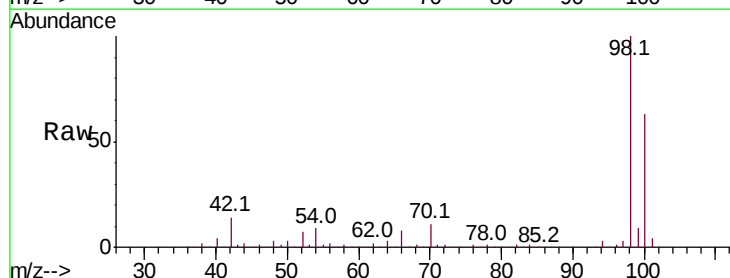
Acq: 10 Sep 2019 6:52

Tgt Ion: 98 Resp: 948569

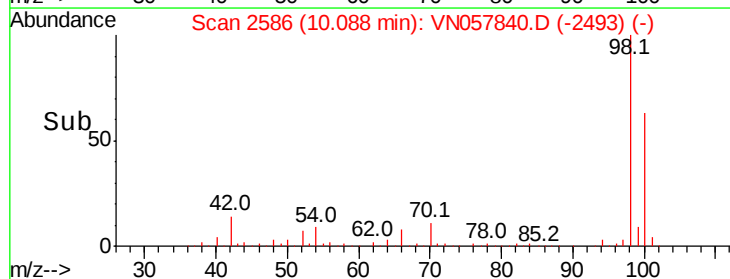
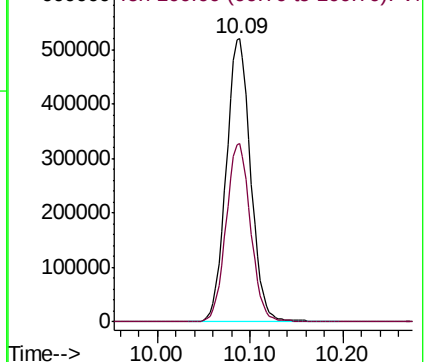
Ion Ratio Lower Upper

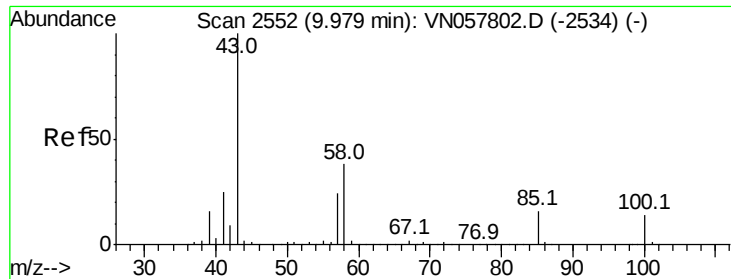
98 100

100 63.3 50.3 75.5



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: 0.984 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

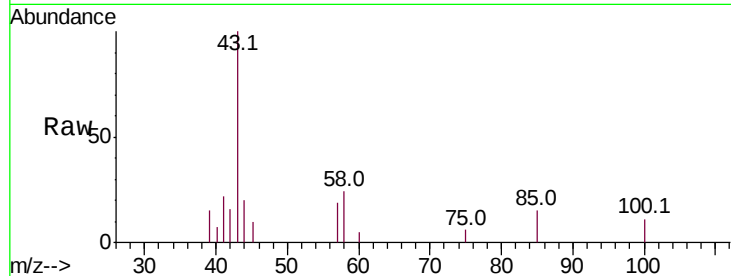
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 6139

Ion Ratio Lower Upper

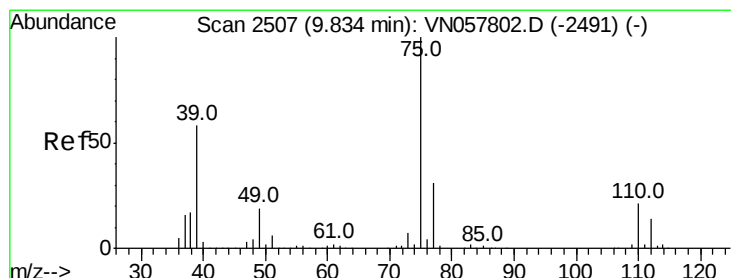
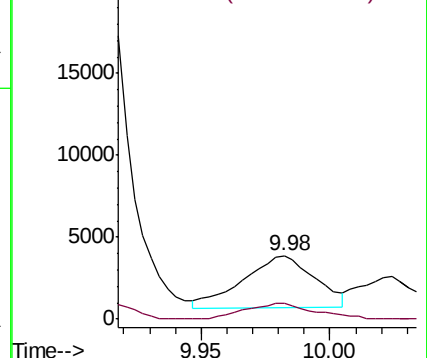
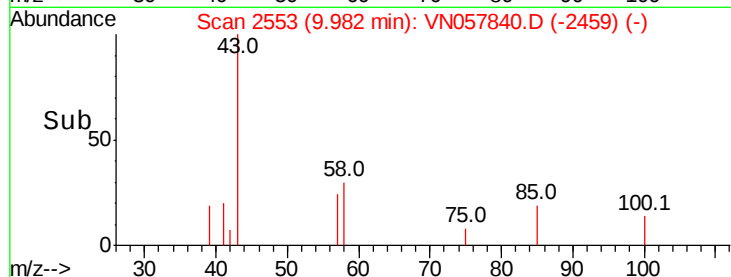
43 100

58 29.2 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN057840.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057840.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.762 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

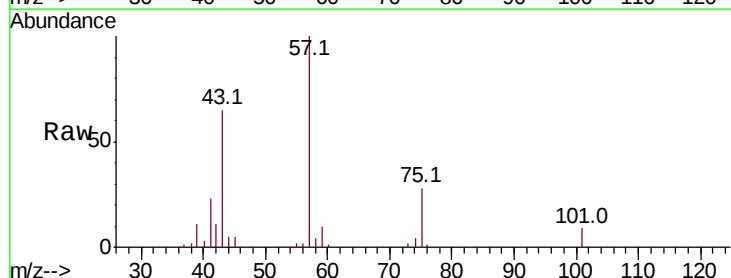
Tgt Ion: 75 Resp: 35505

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

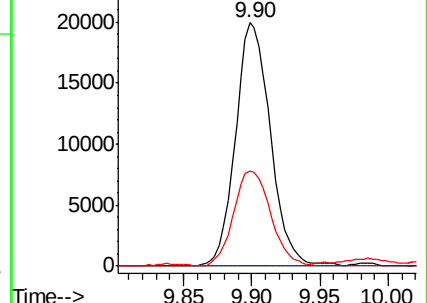
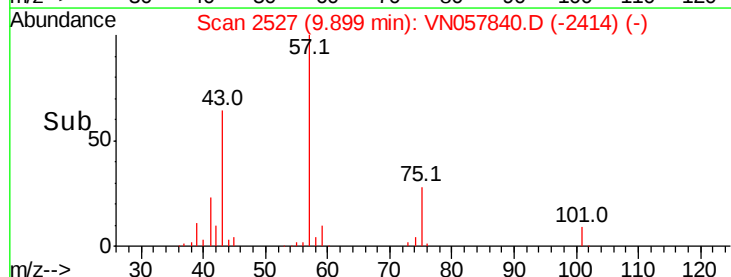
39 39.1 46.2 69.4#

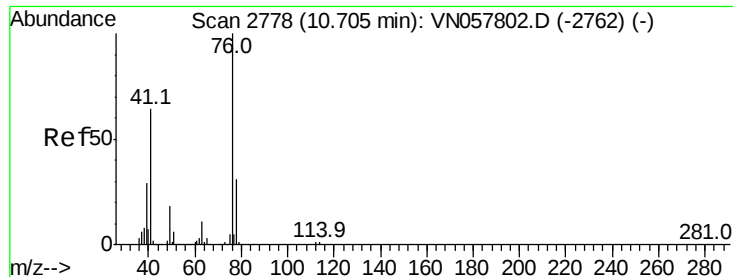


Abundance Ion 74.90 (74.60 to 75.60): VN057840.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN057840.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN057840.D (-2414) (-)

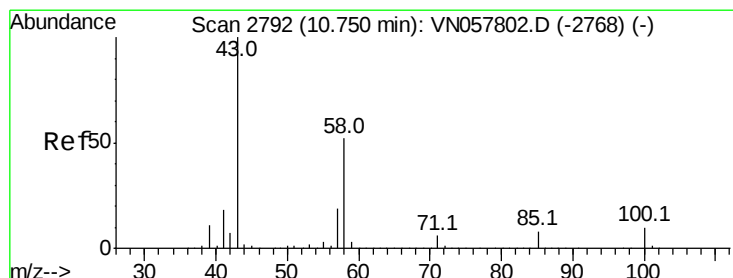
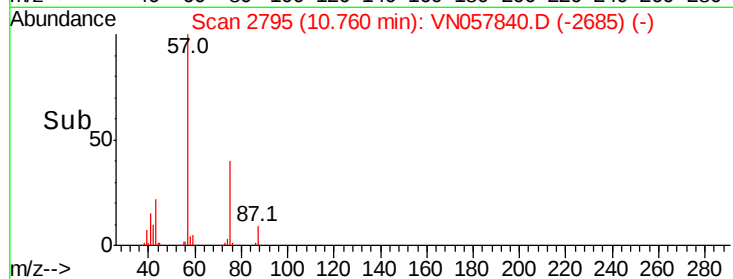
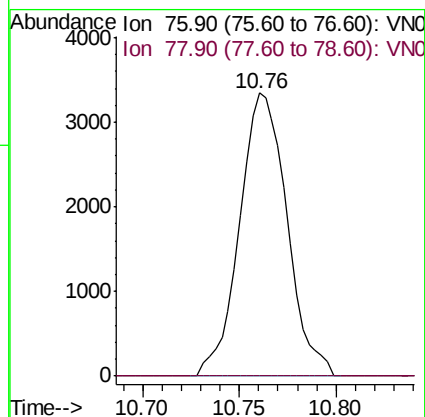
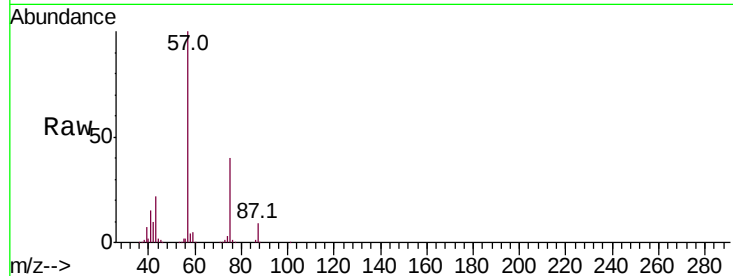




#57
 1,3-Dichloropropane
 Concen: 0.678 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.05 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

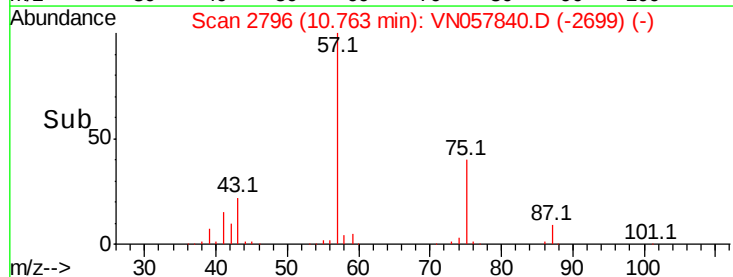
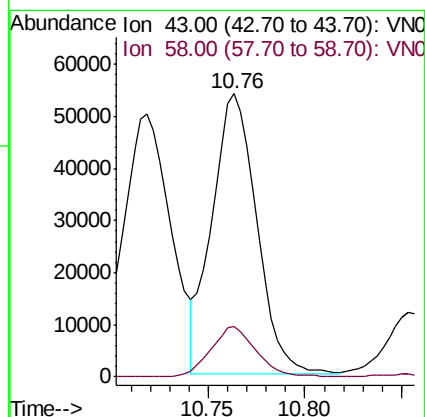
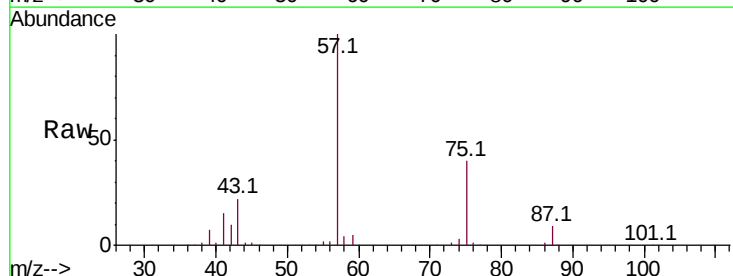
Instrument :
 MSVOA_N
 ClientSampled :

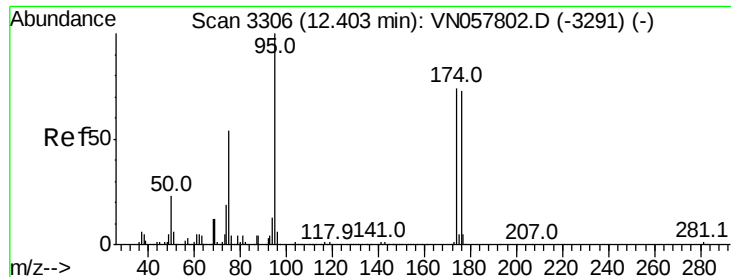
Tot Ion: 76 Resp: 5694
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 18.633 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057840.D
 Acq: 10 Sep 2019 6:52

Tgt Ion: 43 Resp: 87108
 Ion Ratio Lower Upper
 43 100
 58 18.1 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.540 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

ClientSampled :

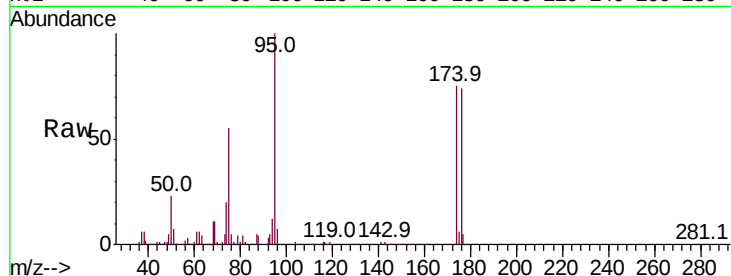
Tot Ion: 95 Resp: 303856

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

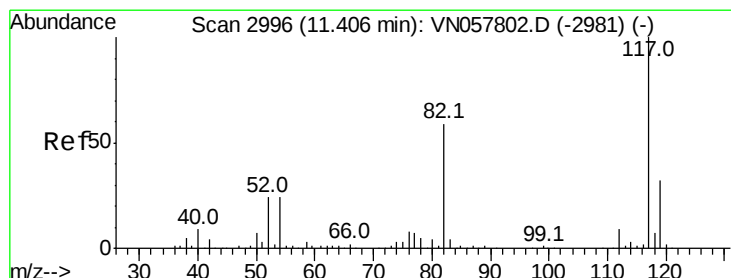
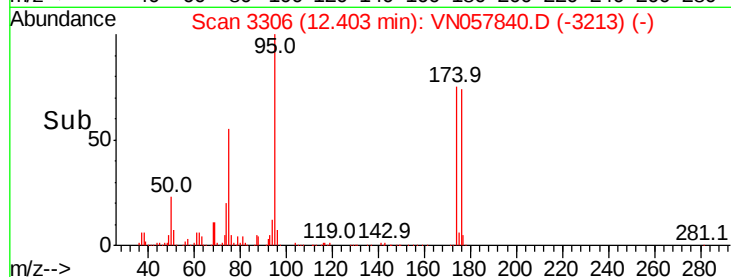
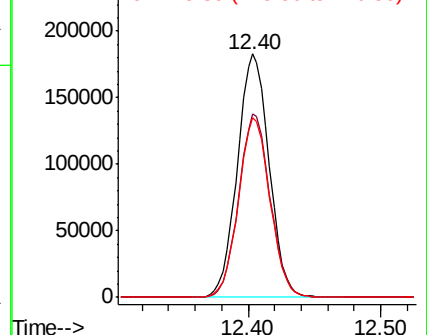
176 73.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

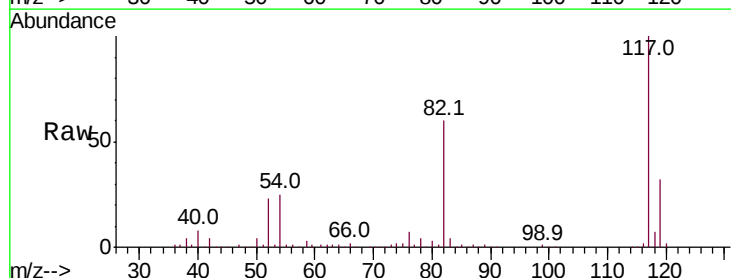
Tgt Ion: 117 Resp: 485584

Ion Ratio Lower Upper

117 100

82 59.8 47.2 70.8

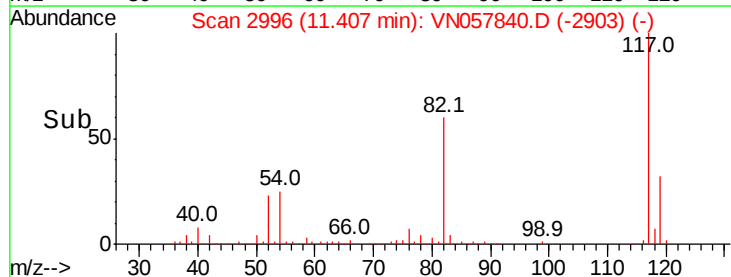
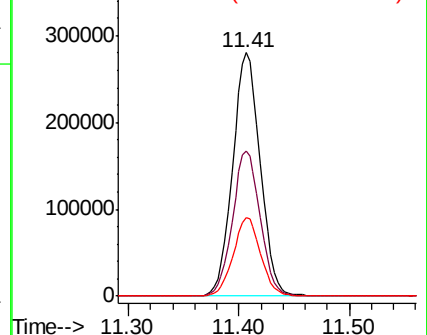
119 32.1 25.3 37.9

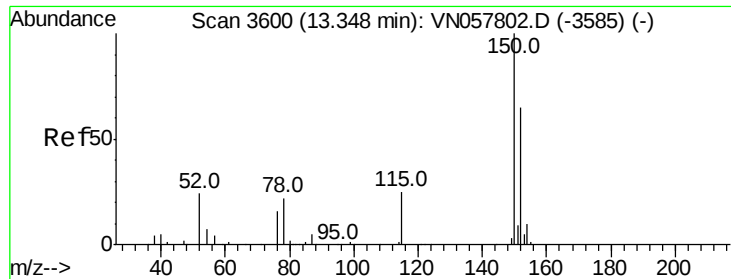


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

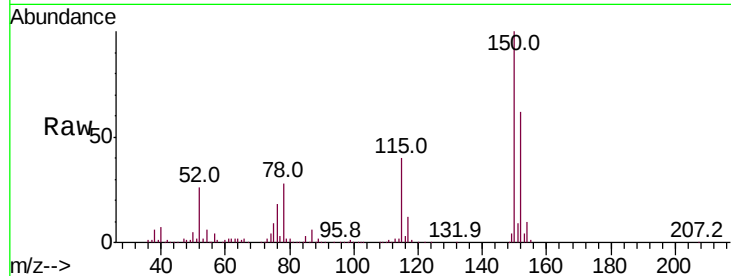
Tot Ion:152 Resp: 246873

Ion Ratio Lower Upper

152 100

115 62.2 30.3 91.0

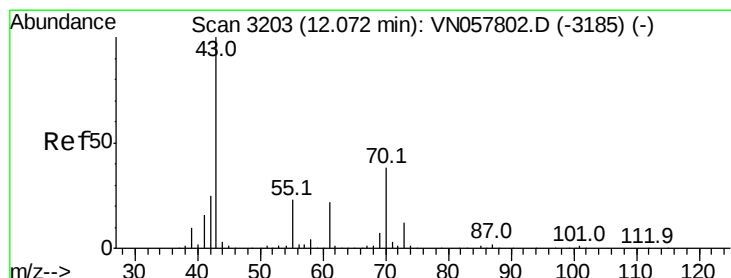
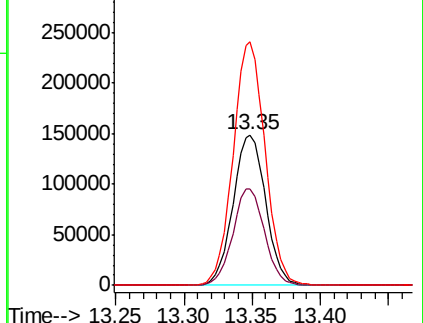
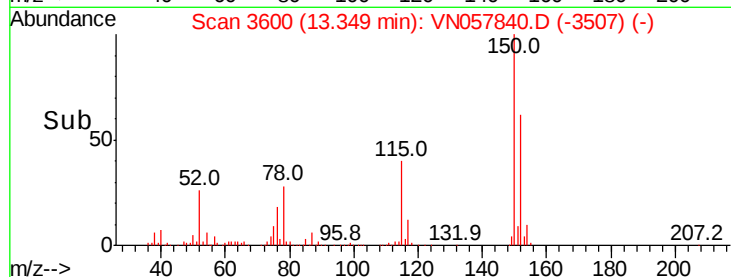
150 159.1 0.0 352.4



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: 0.225 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Tgt Ion: 43 Resp: 1877

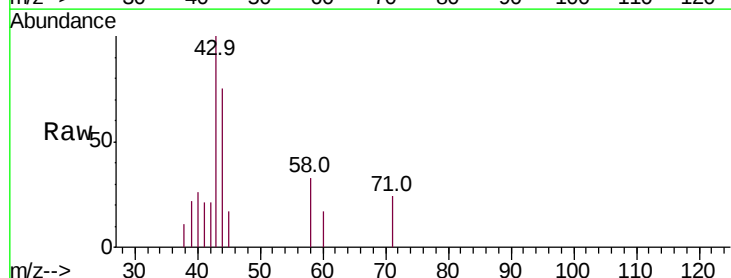
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.6 18.6 27.8#

61 0.0 17.4 26.2#

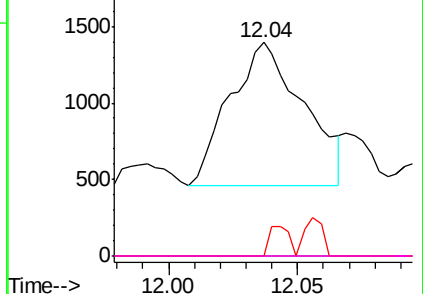
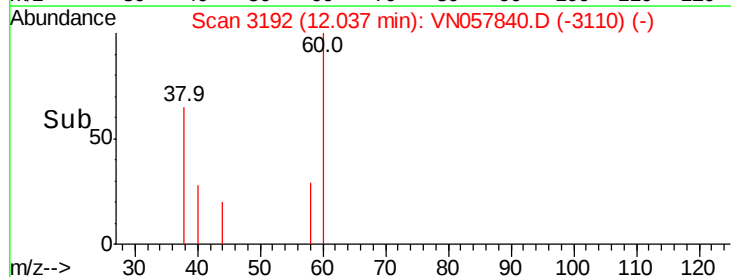


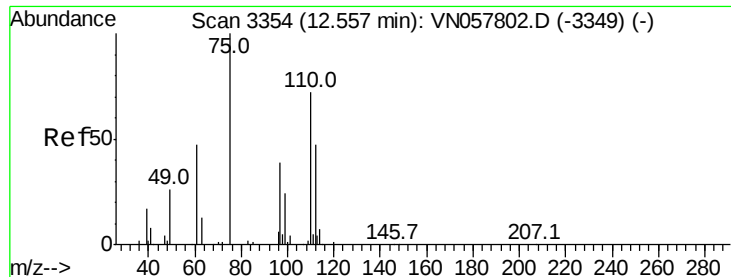
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.704 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

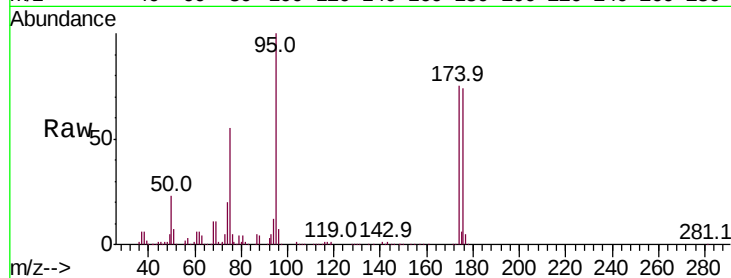
ClientSampleId :

Tot Ion: 75 Resp: 165885

Ion Ratio Lower Upper

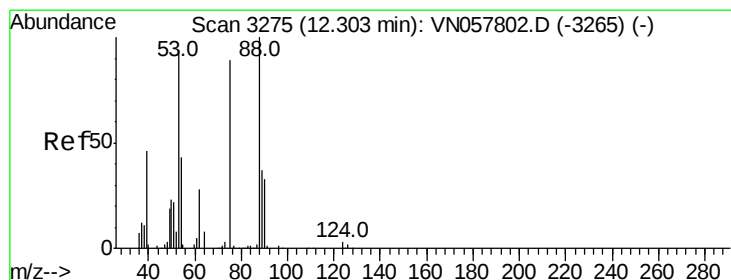
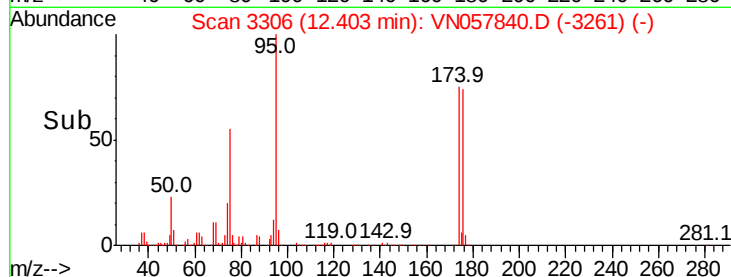
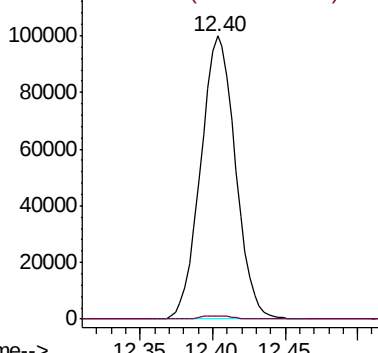
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 104.527 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

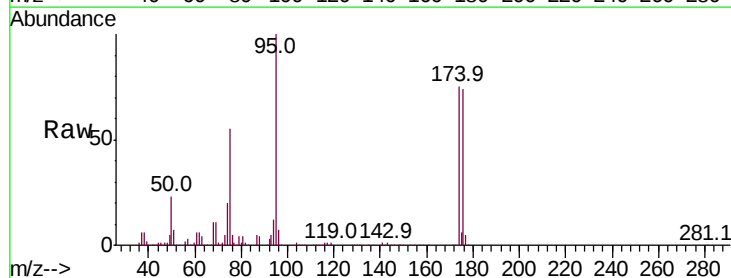
Tgt Ion: 75 Resp: 165885

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

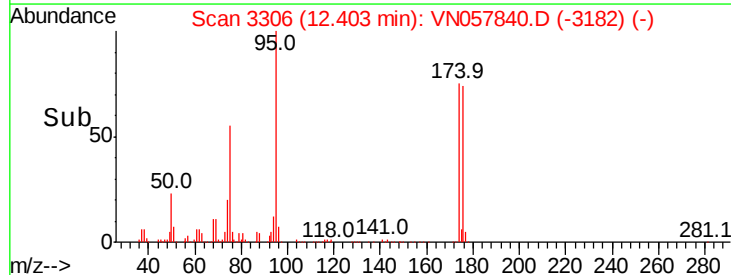
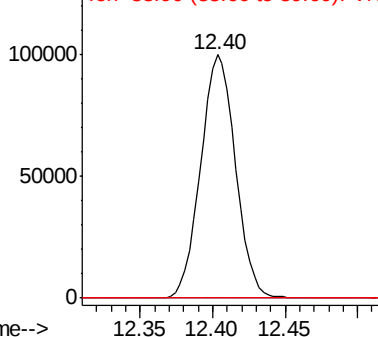
89 0.0 35.3 52.9#

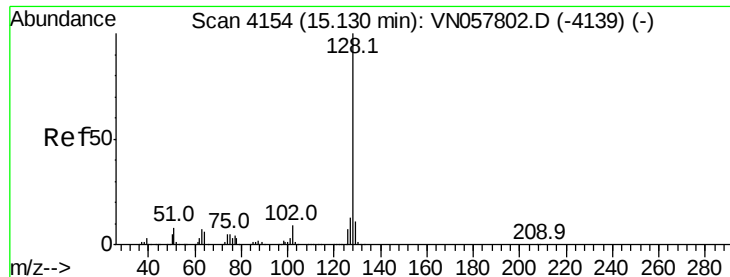


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

Instrument :

MSVOA_N

ClientSampleId :

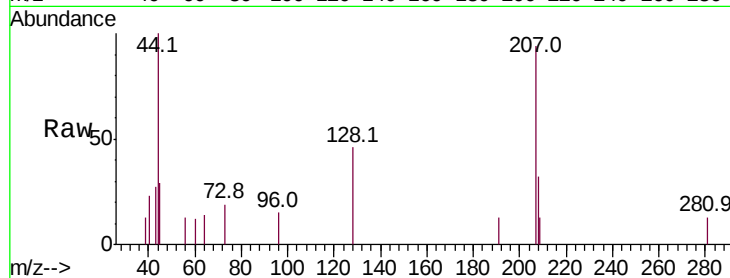
Tot Ion:128 Resp: 948

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

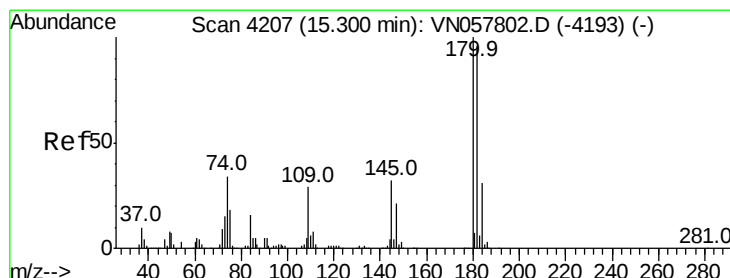
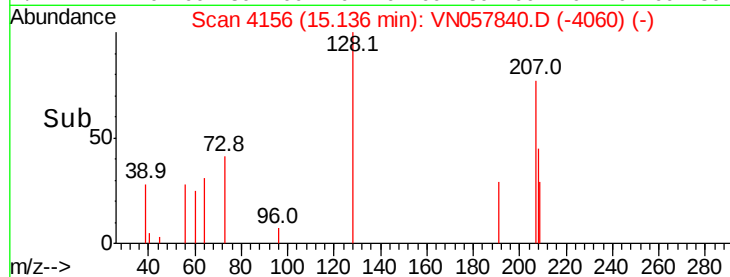
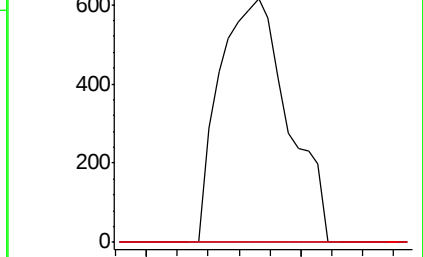
129 0.0 8.6 12.8#



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: 1.018 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN057840.D

Acq: 10 Sep 2019 6:52

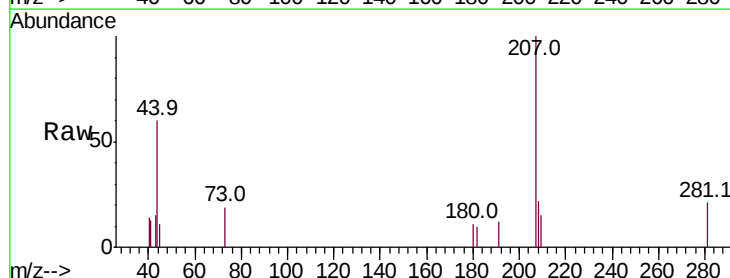
Tgt Ion:180 Resp: 99

Ion Ratio Lower Upper

180 100

182 99.0 48.3 144.8

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

