

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057834.D
 Acq On : 10 Sep 2019 4:40
 Operator : JC/SP
 Sample : K4603-36
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:15:39 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	314782	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	532276	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	495505	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251678	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	347361	54.48	ug/l	0.00
Spiked Amount			Recovery	=	108.96%	
35) Dibromofluoromethane	7.58	113	239786	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	10.08	98	979197	51.34	ug/l	0.00
Spiked Amount			Recovery	=	102.68%	
62) 4-Bromofluorobenzene	12.40	95	316631	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

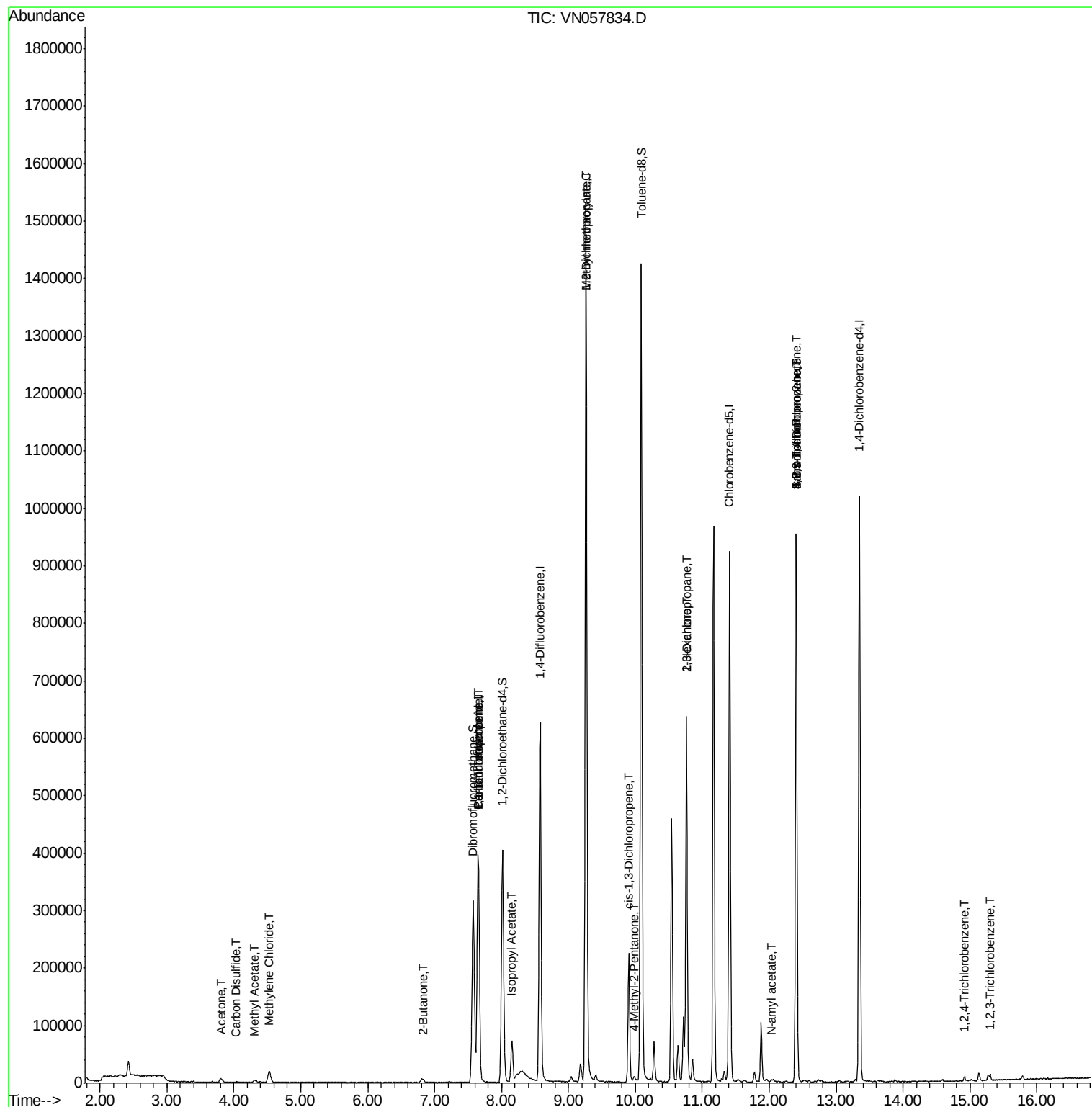
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	262	Below Cal	#	2
16) Acetone	3.80	43	10101	4.833	ug/l	96
17) Carbon Disulfide	4.02	76	442	0.243	ug/l #	75
18) Methyl Acetate	4.31	43	3102	0.557	ug/l #	68
20) Methylene Chloride	4.52	84	14229	2.404	ug/l #	81
25) 2-Butanone	6.83	43	2585	0.855	ug/l #	80
31) Cyclohexane	7.65	56	8766	Below Cal	#	2
36) 1,1-Dichloropropene	7.65	75	27330	4.427	ug/l #	46
38) Carbon Tetrachloride	7.65	117	31712	5.627	ug/l #	16
43) Isopropyl Acetate	8.16	43	84693	7.896	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1816	0.336	ug/l #	44
48) Methyl methacrylate	9.26	41	149482	27.475	ug/l #	47
51) 4-Methyl-2-Pentanone	9.98	43	7051	1.111	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	38007	5.010	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	6798	0.796	ug/l #	43
59) 2-Hexanone	10.76	43	100010	21.022	ug/l #	53
71) Bromoform	12.40	173	1236	0.441	ug/l #	1
74) N-amyl acetate	12.04	43	3083	0.363	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	173999	30.562	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173999	107.547	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	3008	0.515	ug/l	94
95) Naphthalene	15.13	128	10846	Below Cal		99
96) 1,2,3-Trichlorobenzene	15.30	180	2966	1.569	ug/l	93

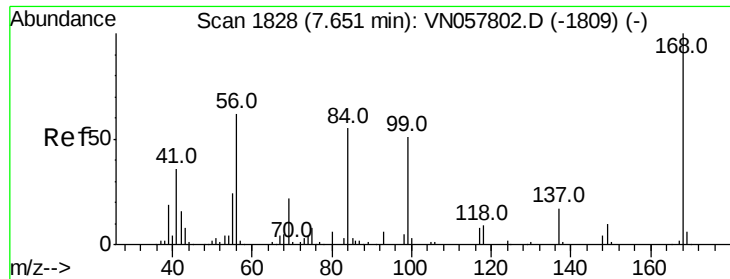
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

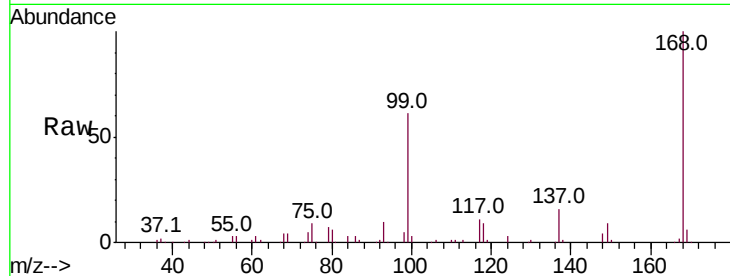
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 314782

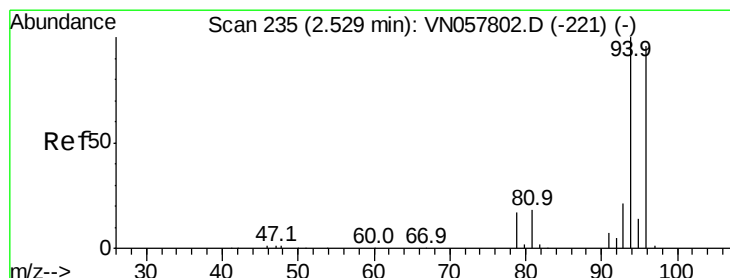
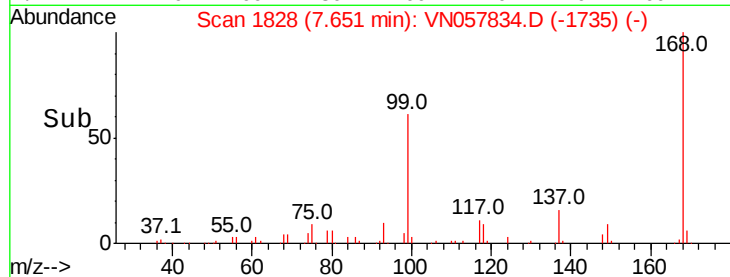
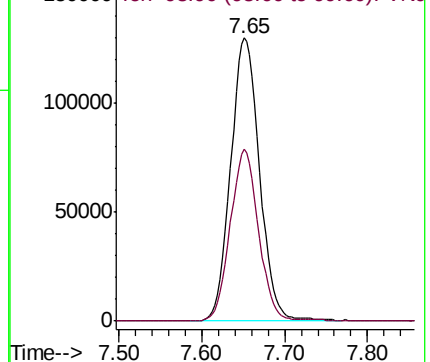
Ion Ratio Lower Upper

168 100

99 60.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. 0.00 min

Lab File: VN057834.D

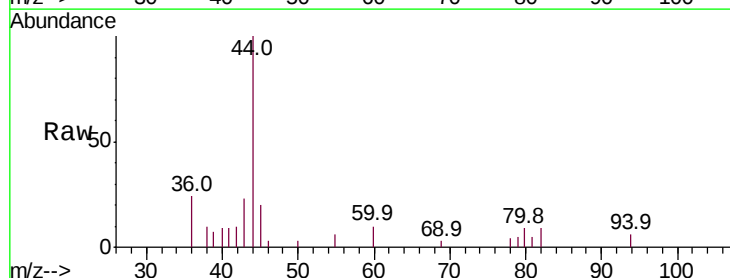
Acq: 10 Sep 2019 4:40

Tgt Ion: 94 Resp: 262

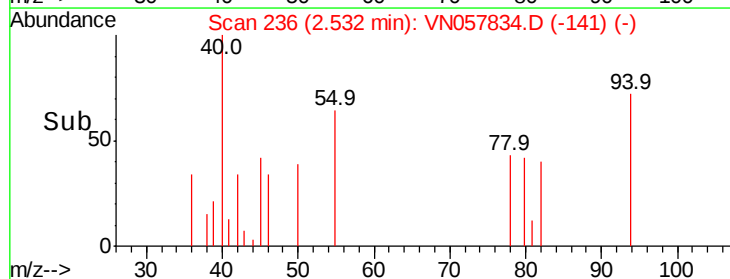
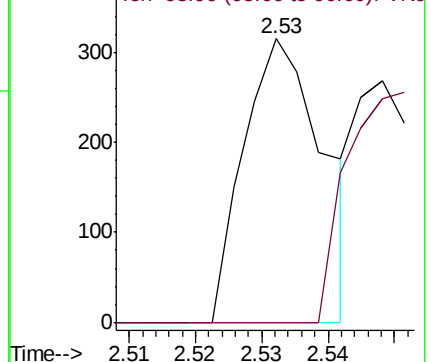
Ion Ratio Lower Upper

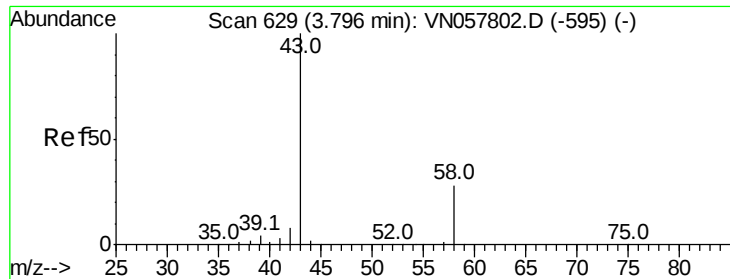
94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VN0





#16

Acetone

Concen: 4.833 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

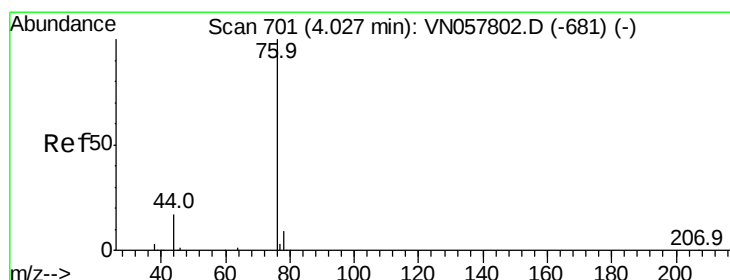
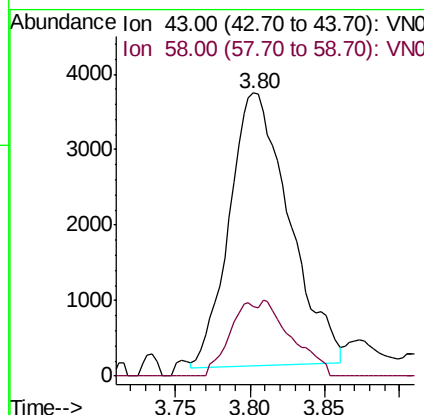
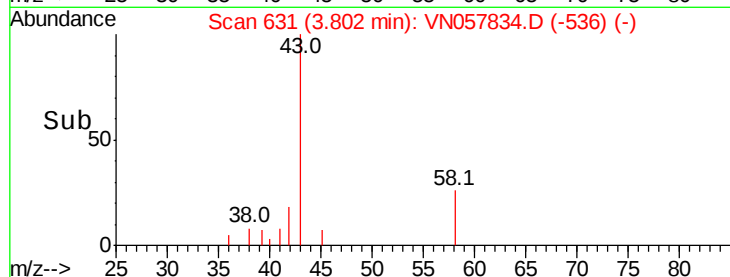
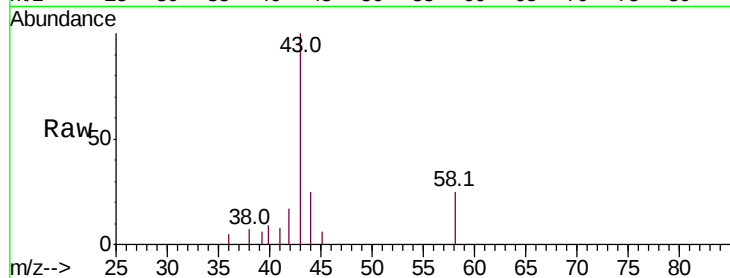
ClientSampleId :

Tot Ion: 43 Resp: 10101

Ion Ratio Lower Upper

43 100

58 25.8 22.2 33.2



#17

Carbon Disulfide

Concen: 0.243 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.01 min

Lab File: VN057834.D

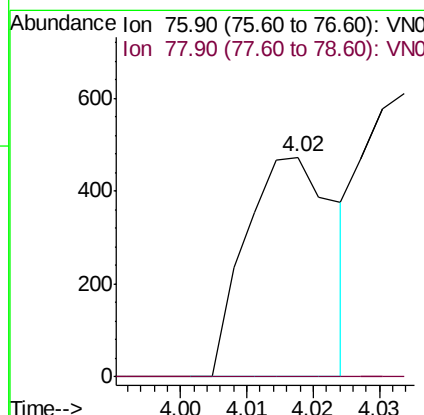
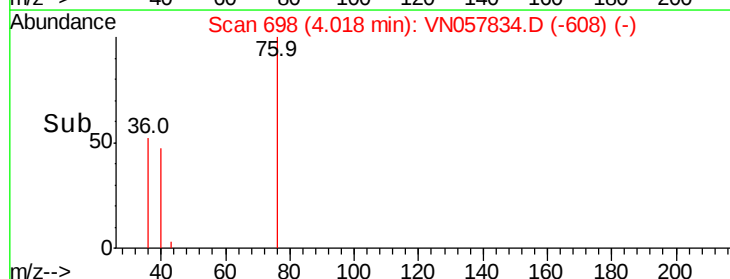
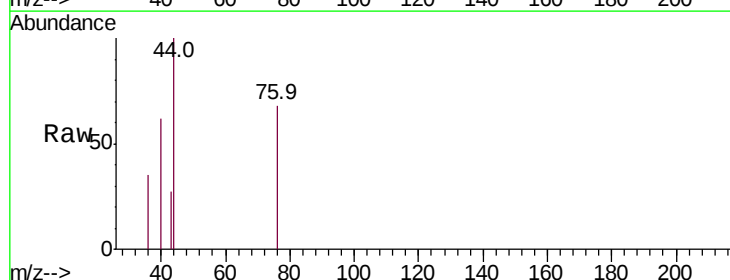
Acq: 10 Sep 2019 4:40

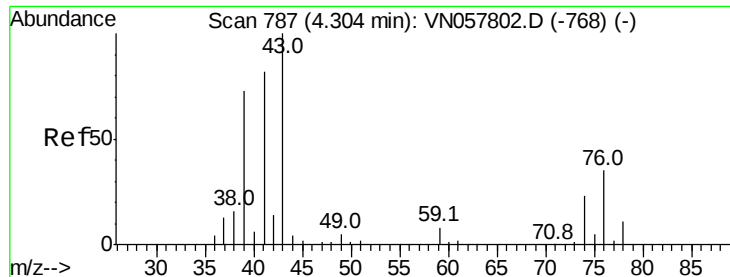
Tgt Ion: 76 Resp: 442

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#18

Methyl Acetate

Concen: 0.557 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

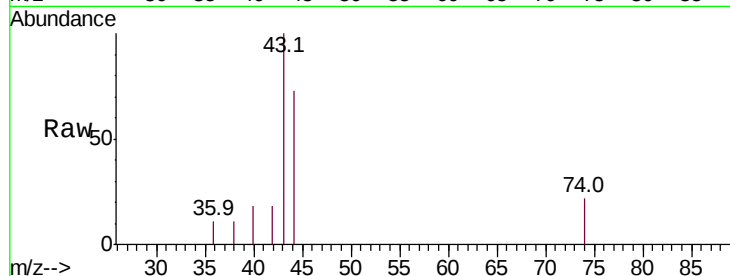
ClientSampled :

Tot Ion: 43 Resp: 3102

Ion Ratio Lower Upper

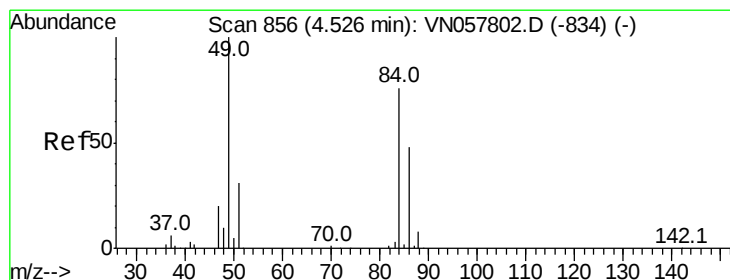
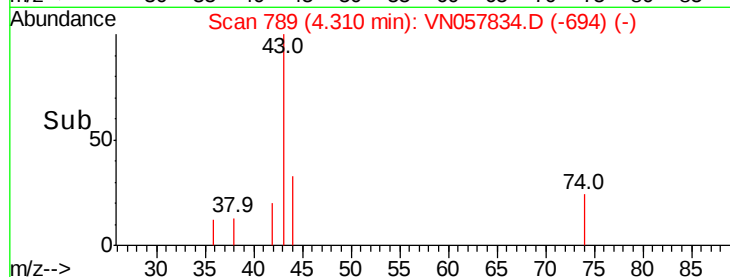
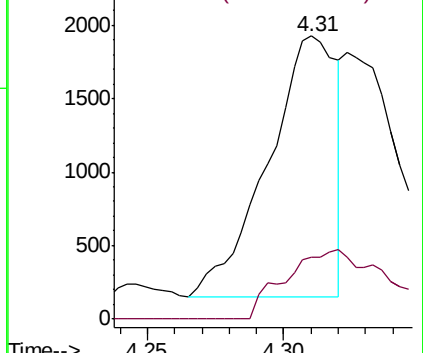
43 100

74 37.7 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO



#20

Methylene Chloride

Concen: 2.404 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Tgt Ion: 84 Resp: 14229

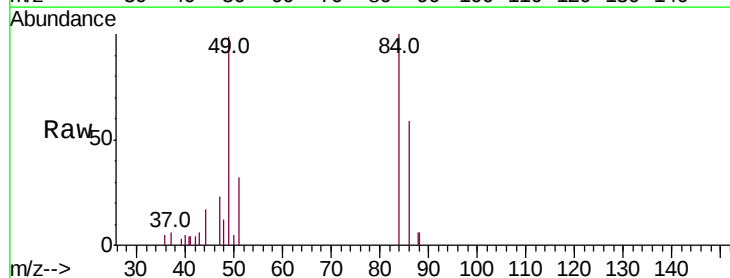
Ion Ratio Lower Upper

84 100

49 99.3 104.8 157.2#

51 31.8 33.0 49.4#

86 59.1 50.5 75.7

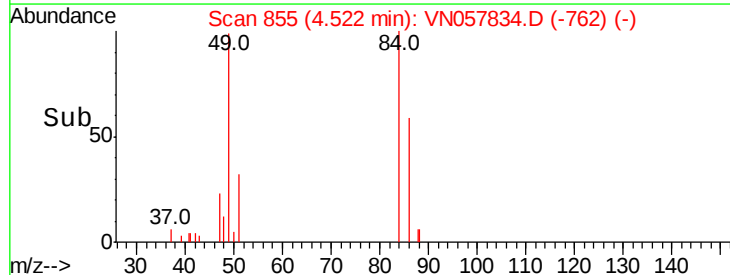
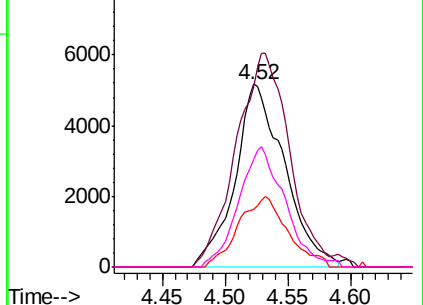


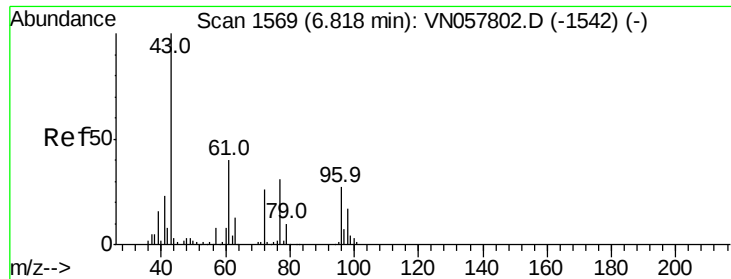
Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

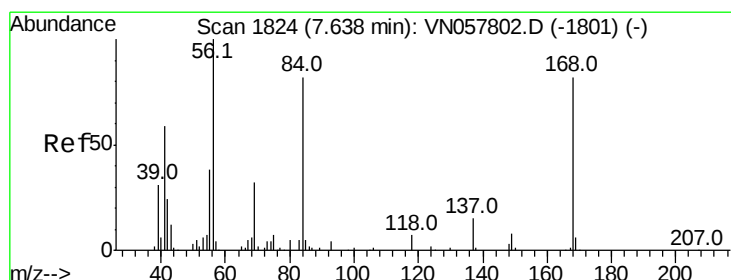
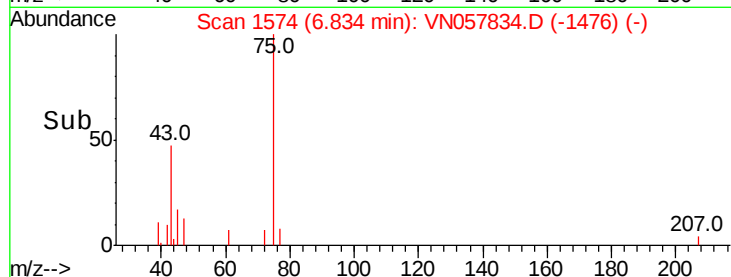
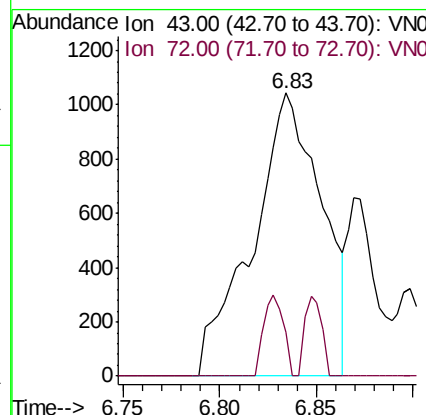
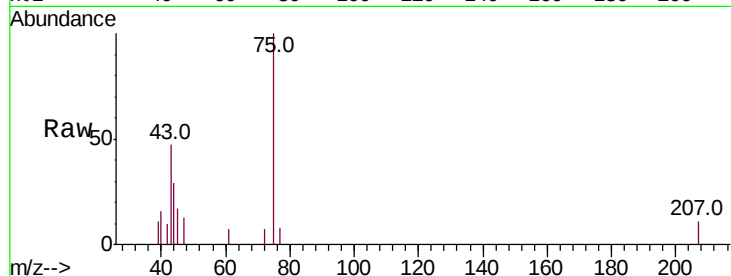




#25
2-Butanone
Concen: 0.855 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN057834.D
Acq: 10 Sep 2019 4:40

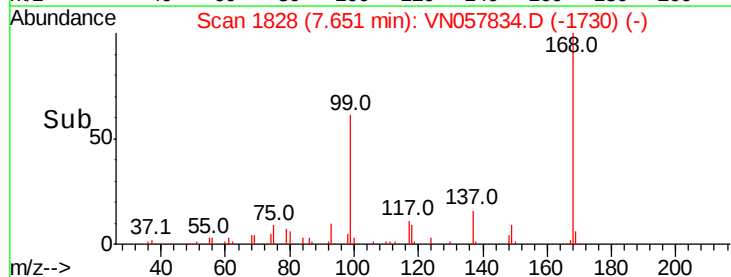
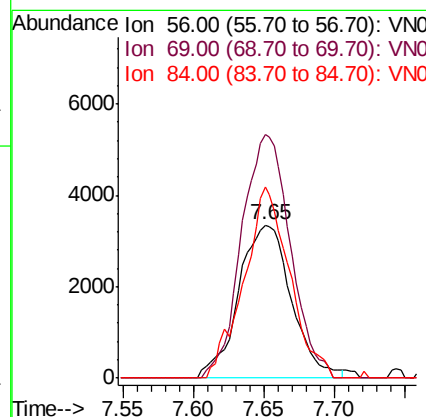
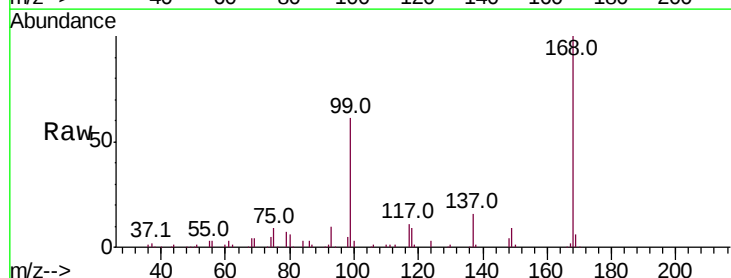
Instrument :
MSVOA_N
ClientSampleId :

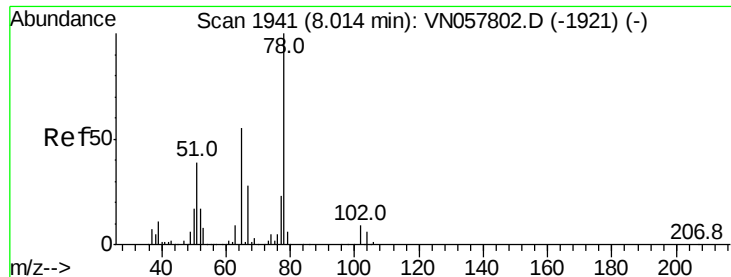
Tot Ion: 43 Resp: 2585
Ion Ratio Lower Upper
43 100
72 15.7 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057834.D
Acq: 10 Sep 2019 4:40

Tgt Ion: 56 Resp: 8766
Ion Ratio Lower Upper
56 100
69 158.9 25.9 38.9#
84 124.9 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 54.482 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

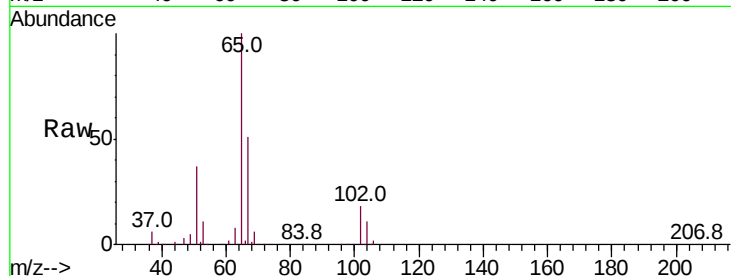
ClientSampleId :

Tot Ion: 65 Resp: 347361

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

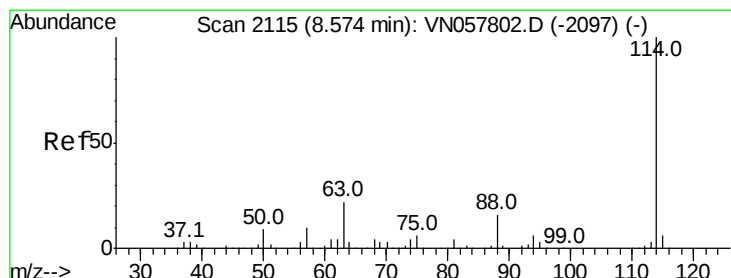
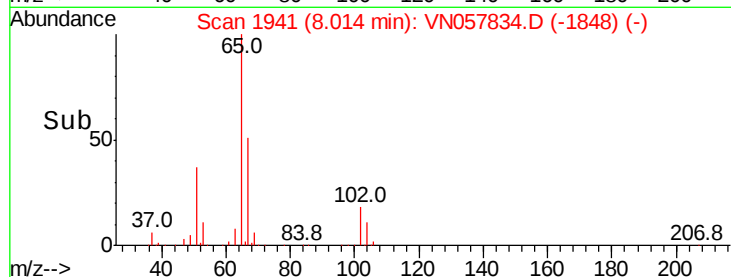
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

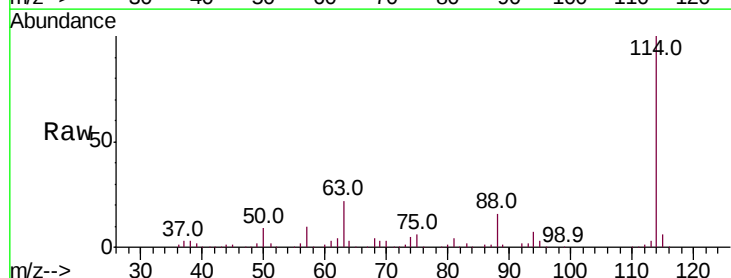
Tgt Ion: 114 Resp: 532276

Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.0

88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.58

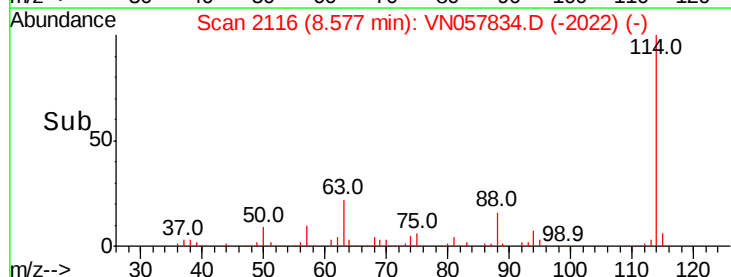
300000

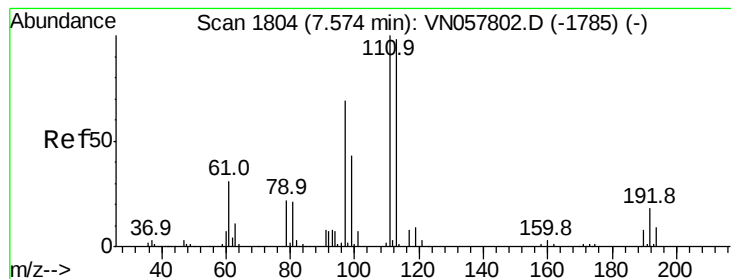
200000

100000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 48.809 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :
MSVOA_N
ClientSampleId :

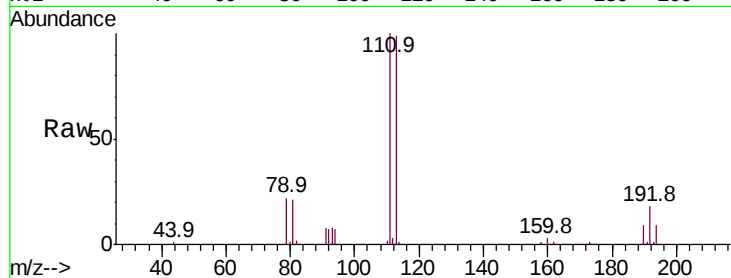
Tot Ion:113 Resp: 239786

Ion Ratio Lower Upper

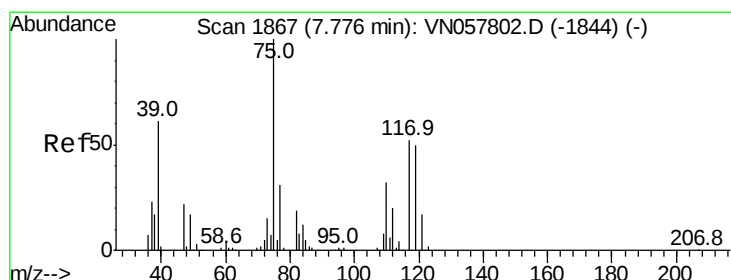
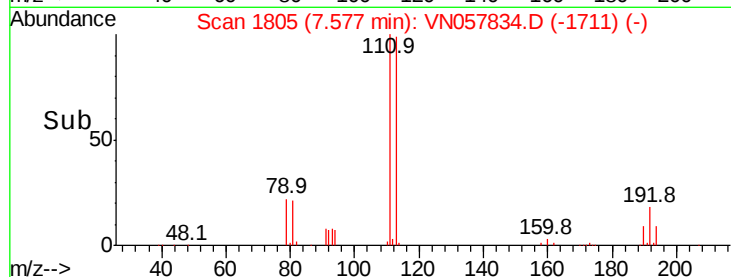
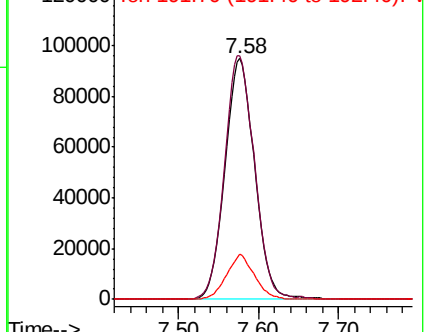
113 100

111 101.9 81.3 121.9

192 17.6 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: 4.427 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

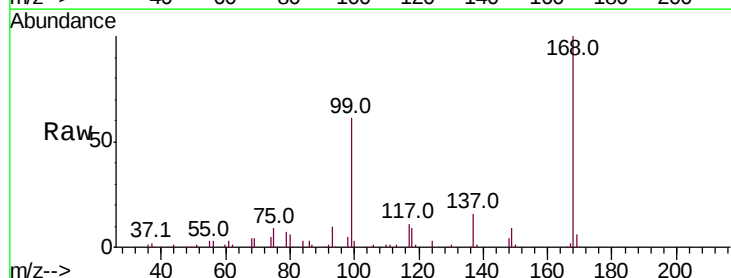
Tgt Ion: 75 Resp: 27330

Ion Ratio Lower Upper

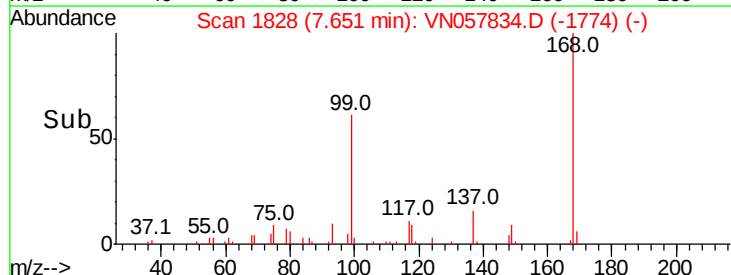
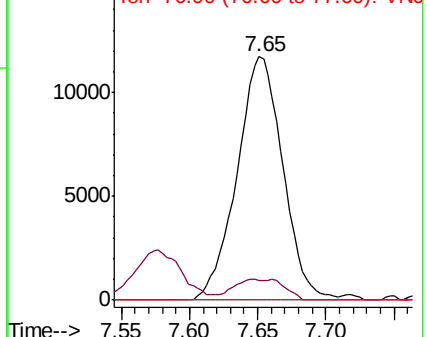
75 100

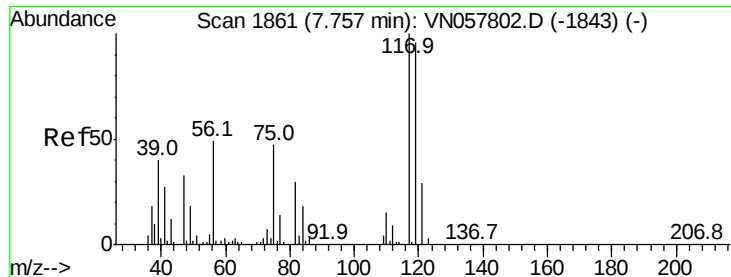
110 3.7 16.3 48.9#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 5.627 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

ClientSampleId :

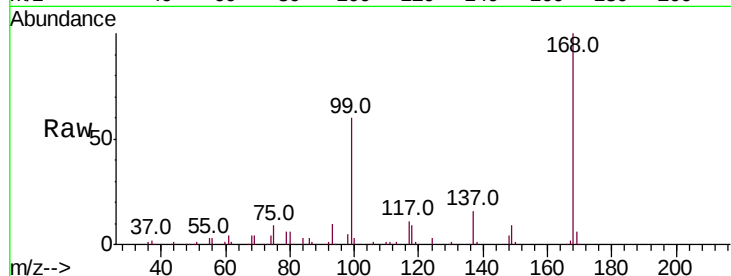
Tot Ion:117 Resp: 31712

Ion Ratio Lower Upper

117 100

119 5.5 76.9 115.3#

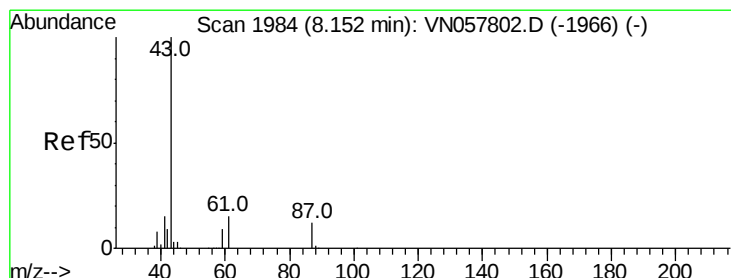
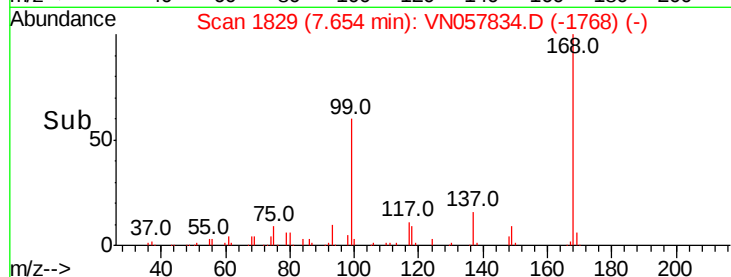
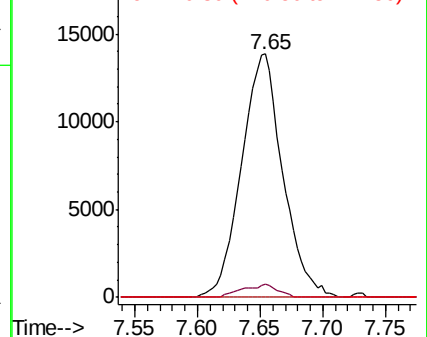
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 7.896 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

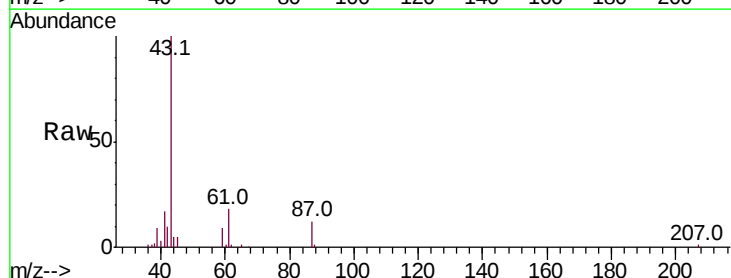
Tgt Ion: 43 Resp: 84693

Ion Ratio Lower Upper

43 100

61 18.3 20.1 30.1#

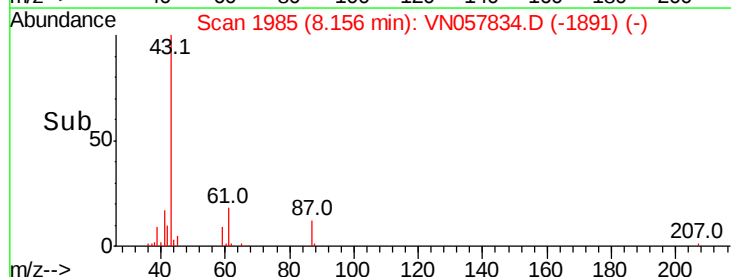
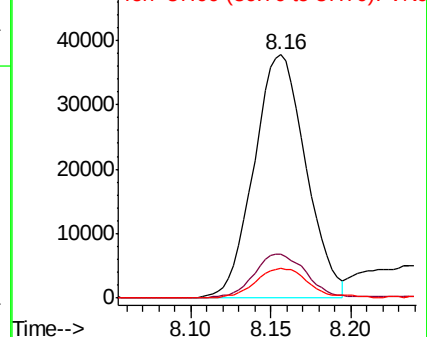
87 12.5 9.5 14.3

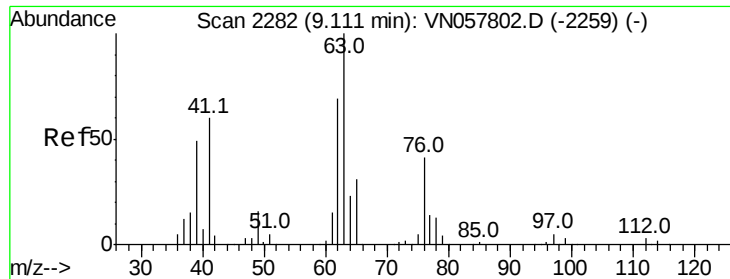


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

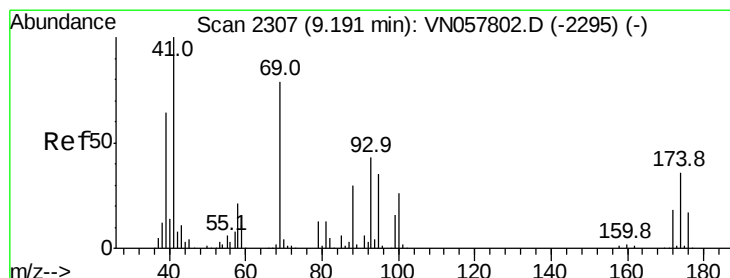
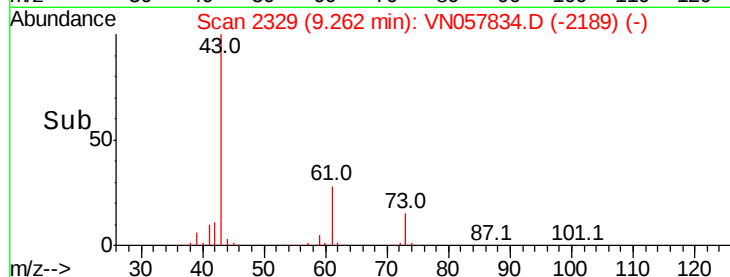
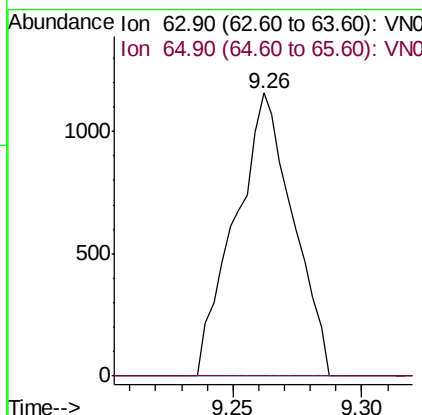
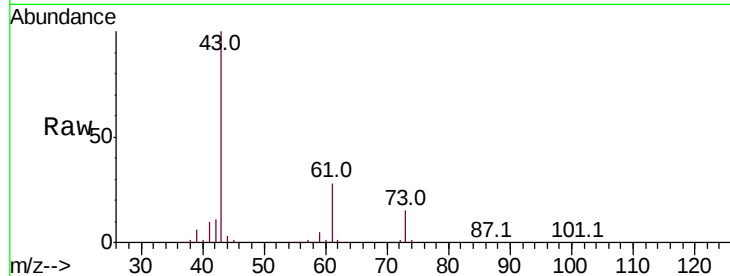




#45
 1,2-Dichloropropane
 Concen: 0.336 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.15 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

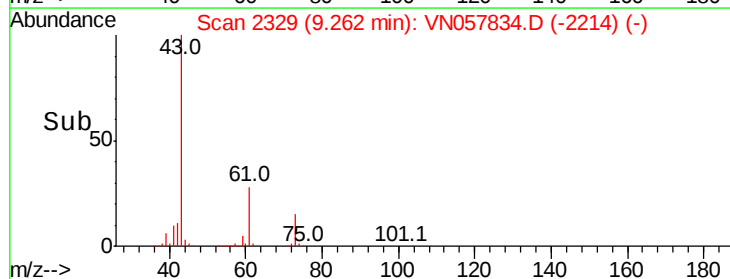
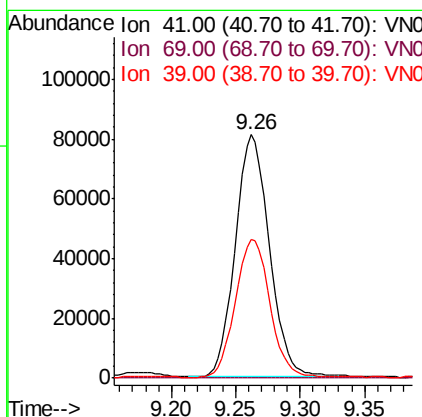
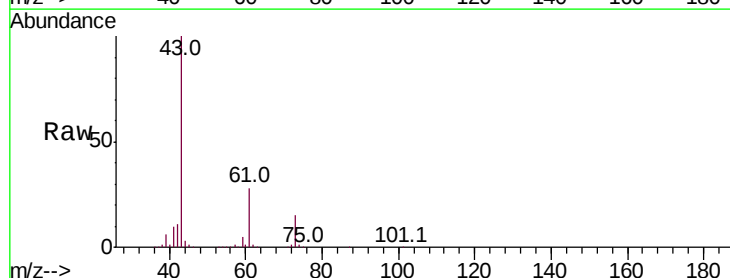
Instrument :
 MSVOA_N
 ClientSampled :

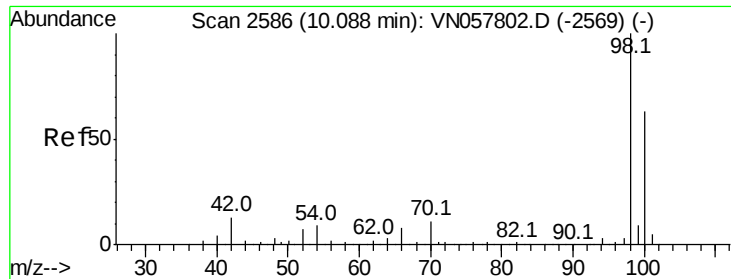
Tot Ion: 63 Resp: 1816
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.8 37.2#



#48
 Methyl methacrylate
 Concen: 27.475 ug/l
 RT: 9.26 min Scan# 2329
 Delta R.T. 0.07 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

Tgt Ion: 41 Resp: 149482
 Ion Ratio Lower Upper
 41 100
 69 0.0 62.7 94.1#
 39 57.8 52.7 79.1





#50

Toluene-d8

Concen: 51.337 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

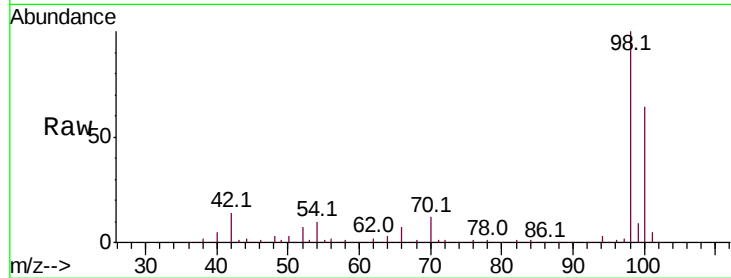
ClientSampled :

Tot Ion: 98 Resp: 979197

Ion Ratio Lower Upper

98 100

100 63.5 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

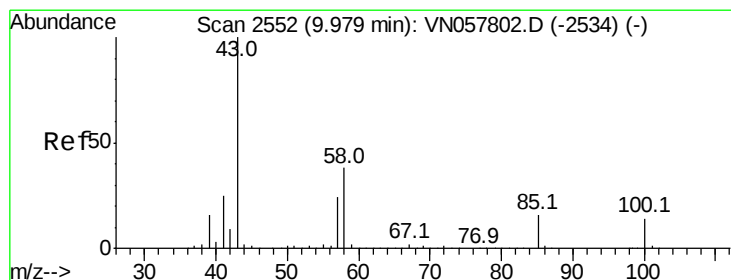
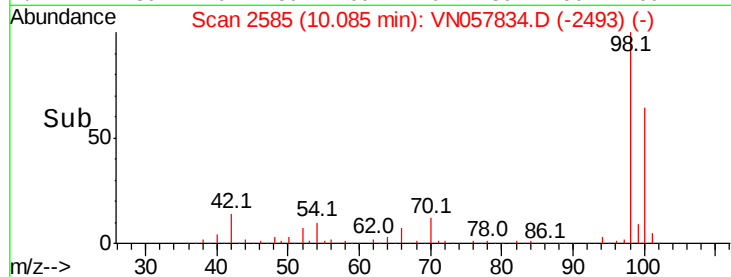
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.111 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057834.D

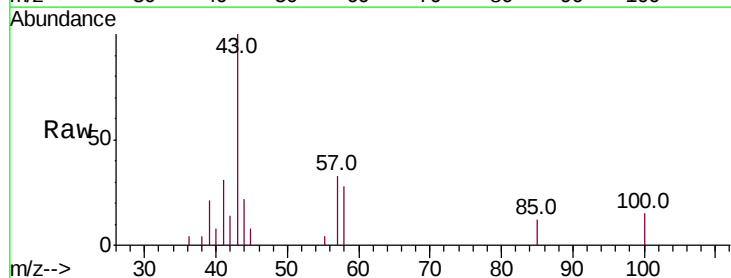
Acq: 10 Sep 2019 4:40

Tgt Ion: 43 Resp: 7051

Ion Ratio Lower Upper

43 100

58 34.9 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

4000

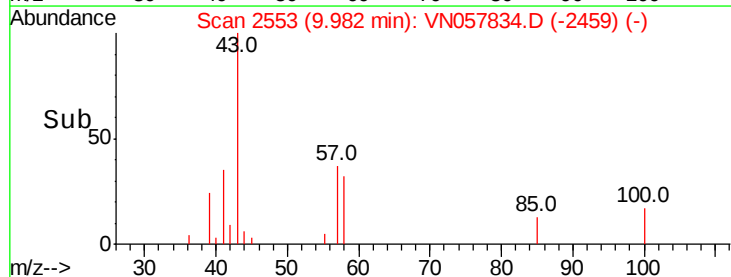
3000

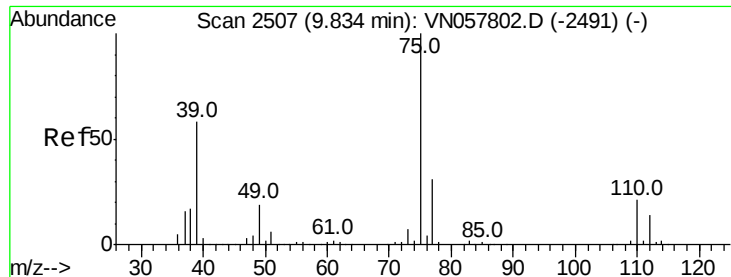
2000

1000

0

Time-->



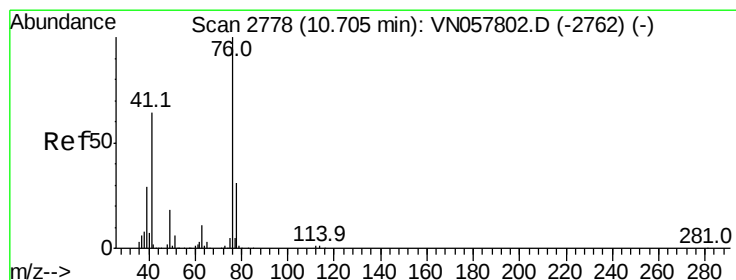
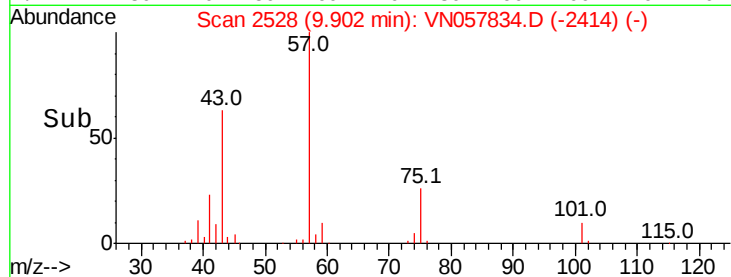
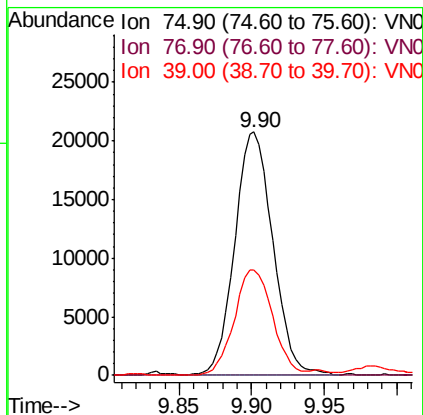
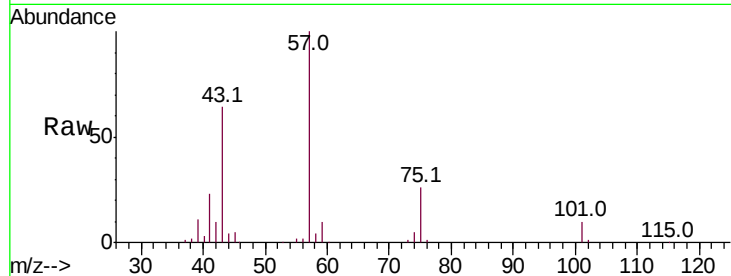


#54

cis-1,3-Dichloropropene
 Concen: 5.010 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

Instrument :
 MSVOA_N
 ClientSampleId :

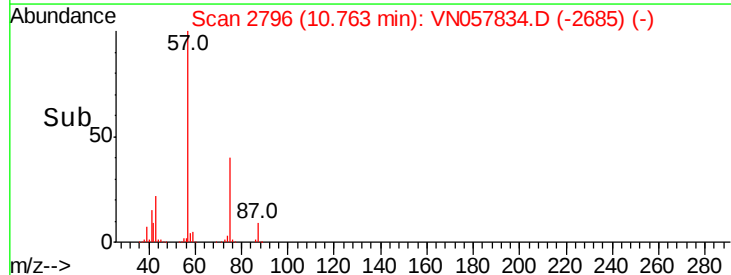
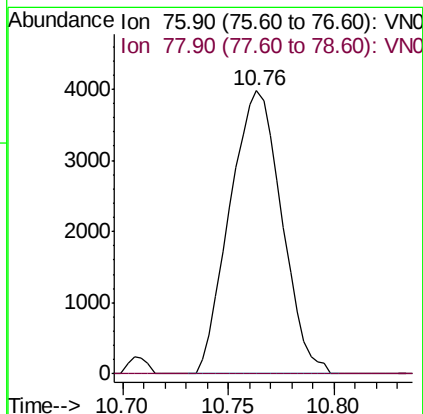
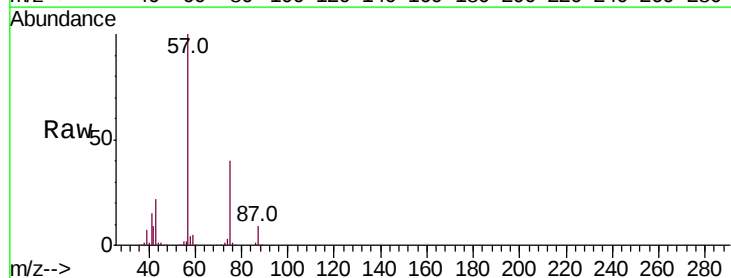
Tot Ion: 75 Resp: 38007
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 43.3 46.2 69.4#

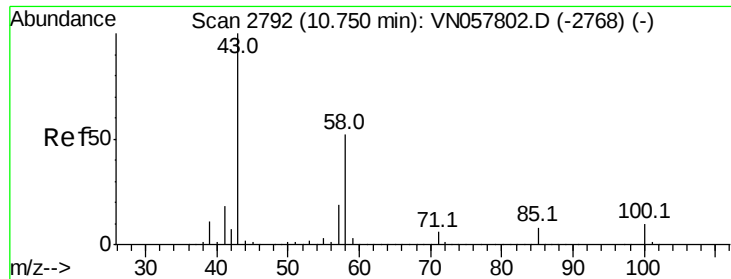


#57

1,3-Dichloropropane
 Concen: 0.796 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

Tgt Ion: 76 Resp: 6798
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 21.022 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

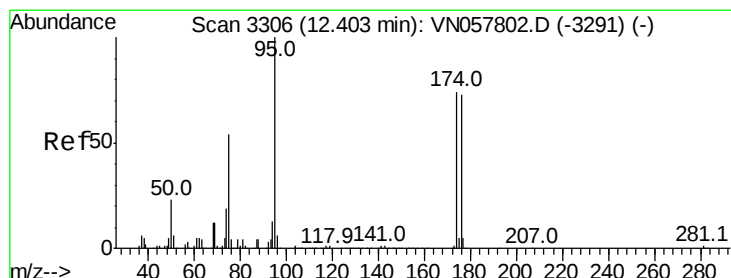
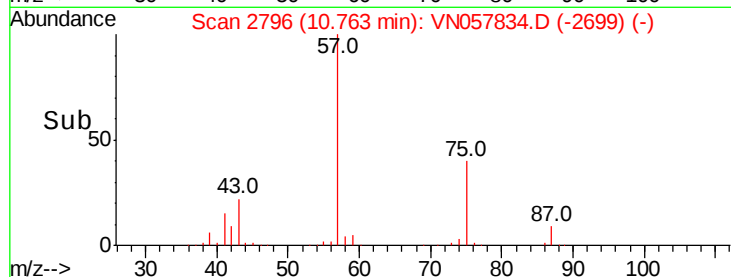
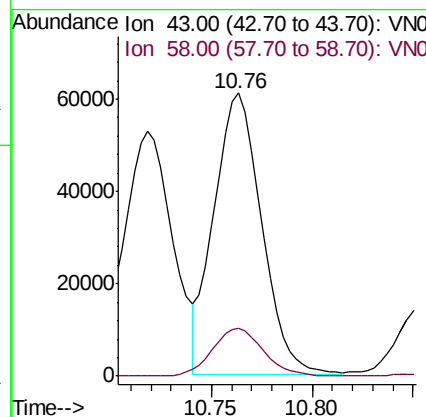
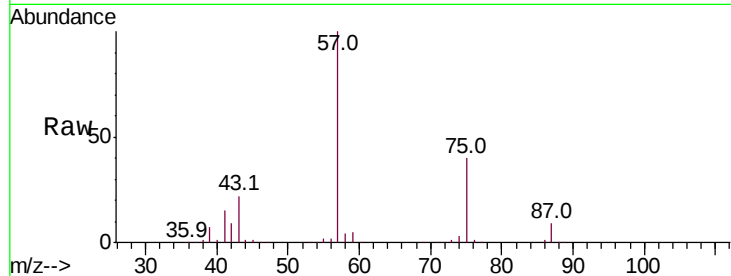
ClientSampleId :

Tot Ion: 43 Resp: 100010

Ion Ratio Lower Upper

43 100

58 18.4 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.560 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

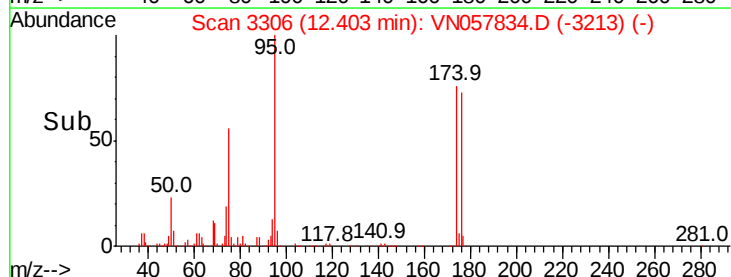
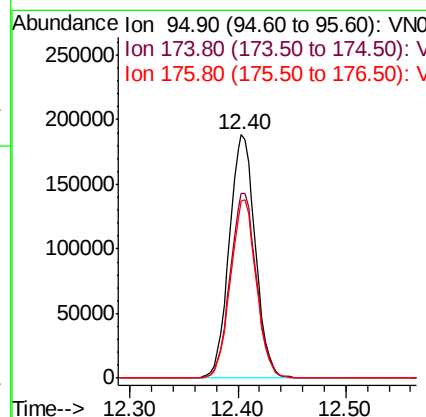
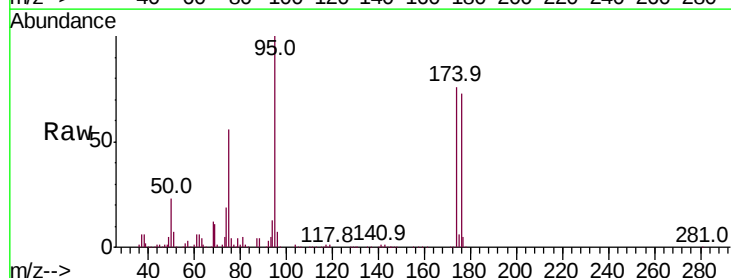
Tgt Ion: 95 Resp: 316631

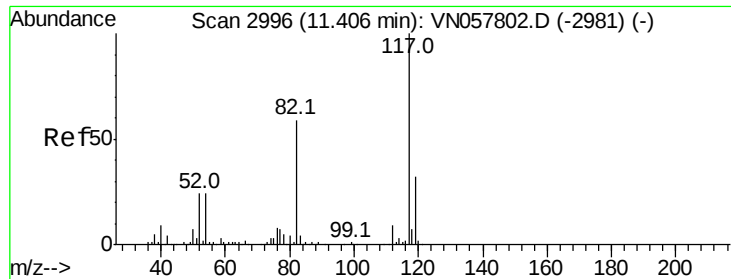
Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.2

176 72.3 0.0 146.0

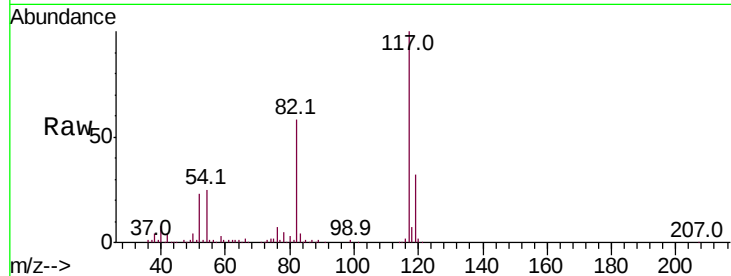




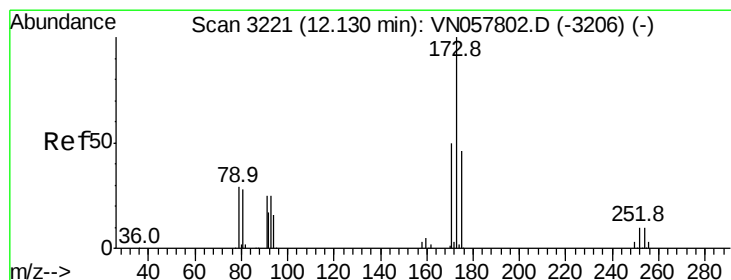
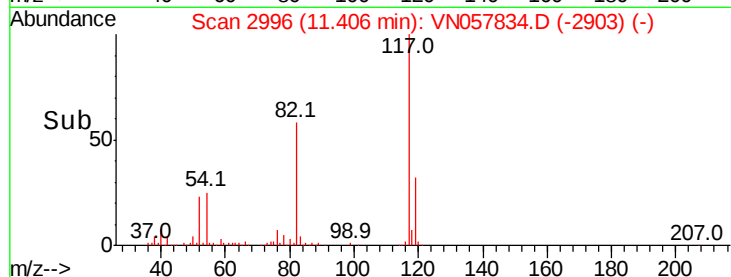
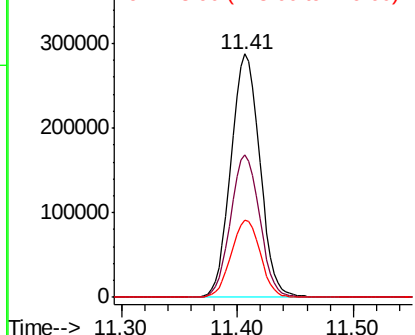
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057834.D
Acq: 10 Sep 2019 4:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 495505
Ion Ratio Lower Upper
117 100
82 58.5 47.2 70.8
119 31.6 25.3 37.9

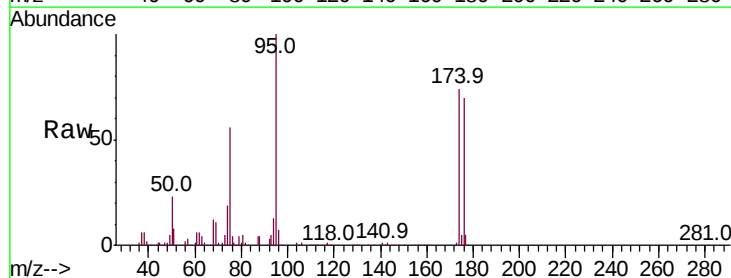


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

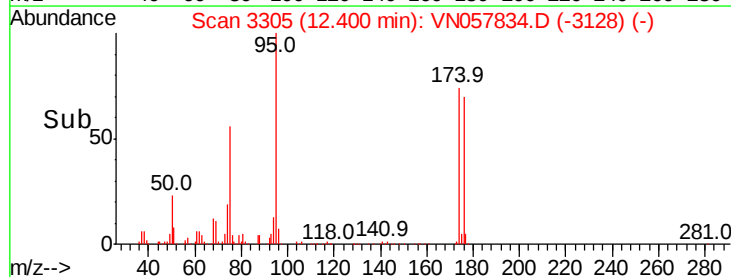
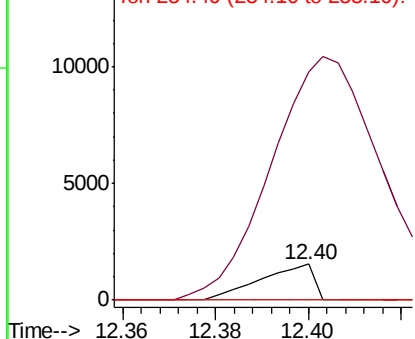


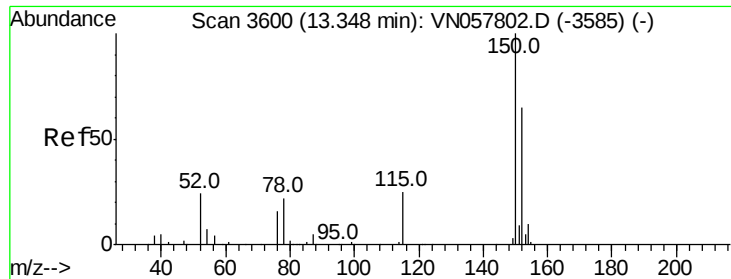
#71
Bromoform
Concen: 0.441 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057834.D
Acq: 10 Sep 2019 4:40

Tgt Ion:173 Resp: 1236
Ion Ratio Lower Upper
173 100
175 1230.6 23.5 70.6#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

ClientSampleId :

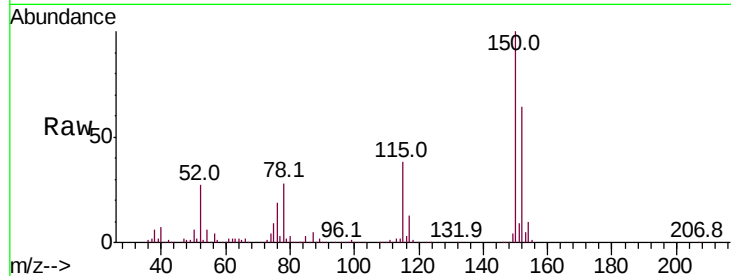
Tot Ion:152 Resp: 251678

Ion Ratio Lower Upper

152 100

115 60.3 30.3 91.0

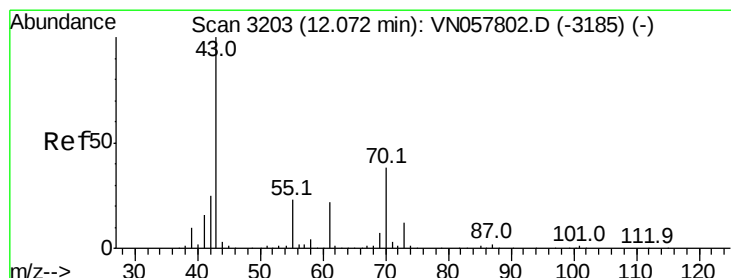
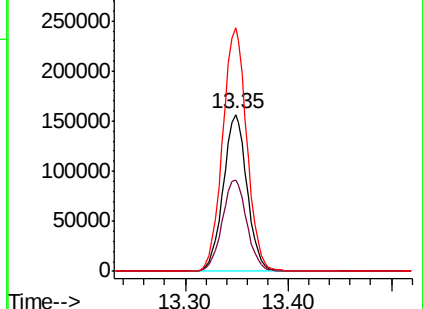
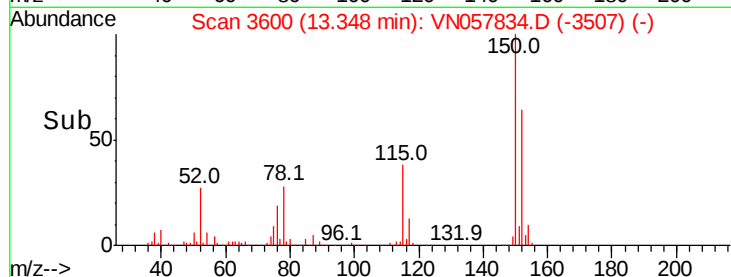
150 158.0 0.0 352.4



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: 0.363 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Tgt Ion: 43 Resp: 3083

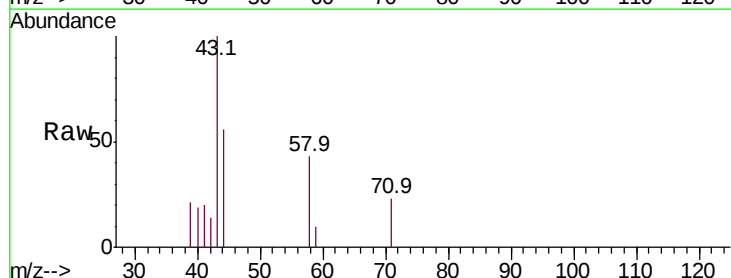
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#

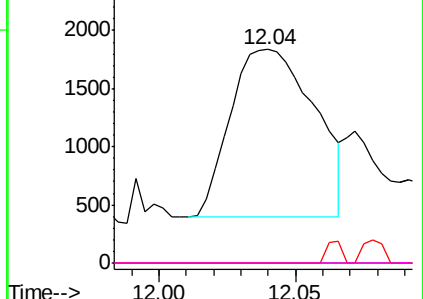
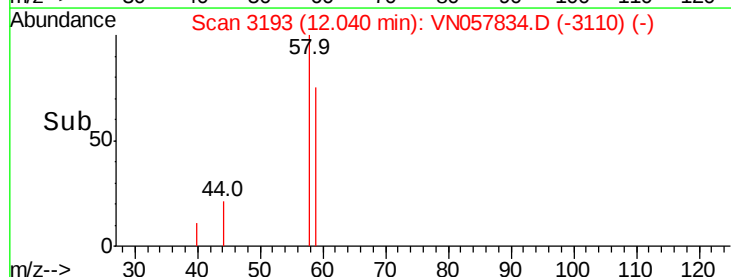


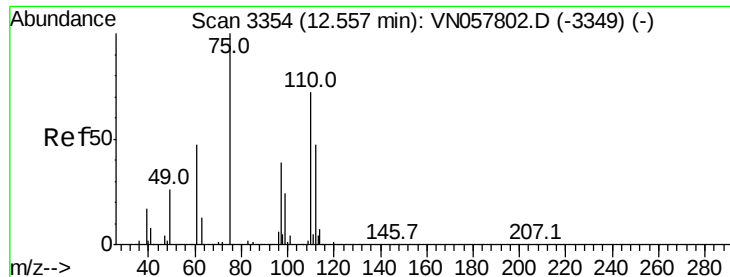
Abundance Ion 43.00 (42.70 to 43.70): V

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

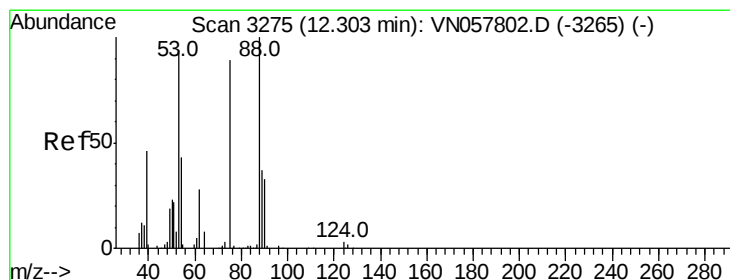
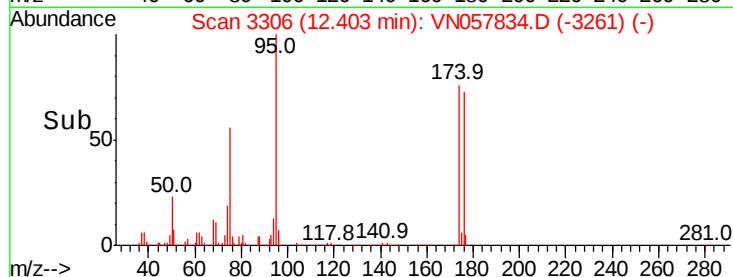
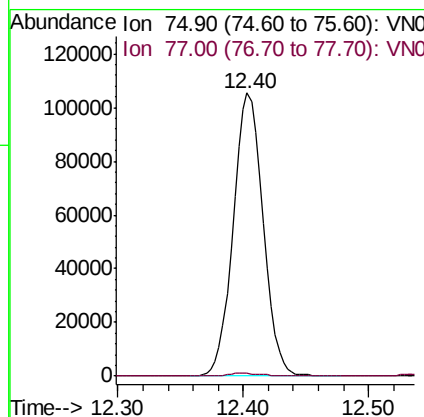
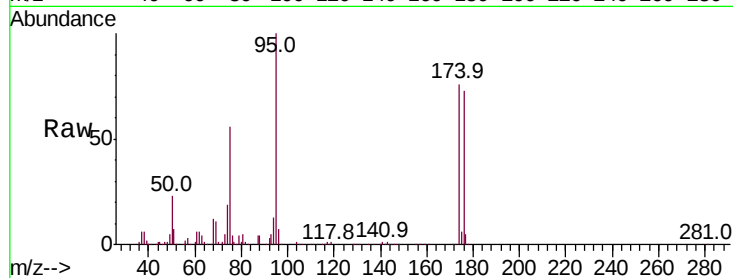




#76
 1,2,3-Trichloropropane
 Concen: 30.562 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

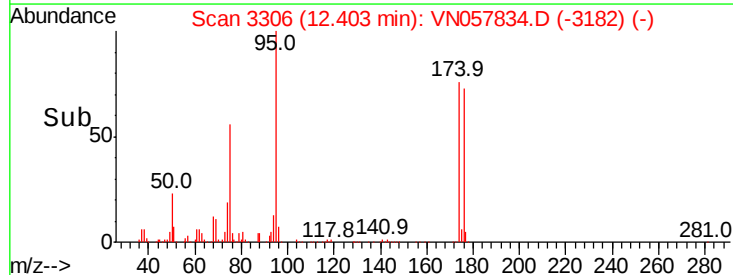
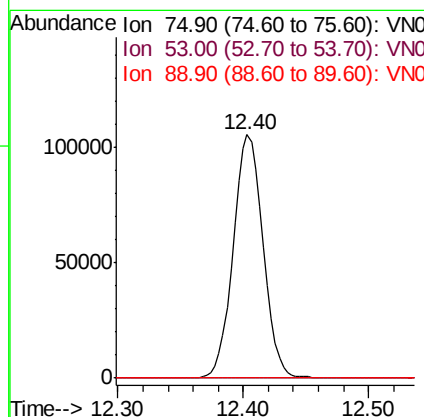
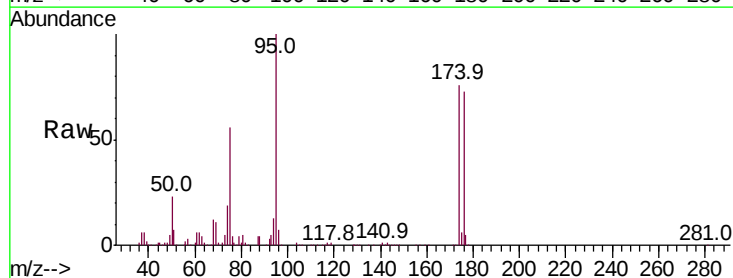
Instrument :
 MSVOA_N
 ClientSampled :

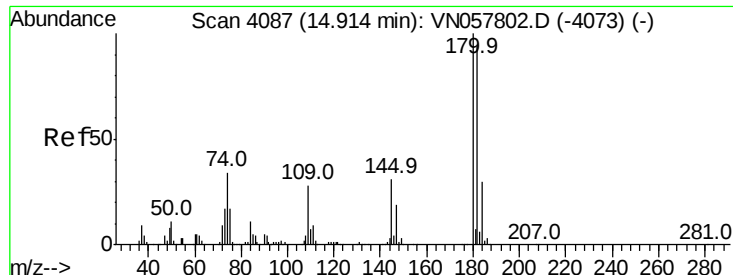
Tot Ion: 75 Resp: 173999
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.547 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

Tgt Ion: 75 Resp: 173999
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

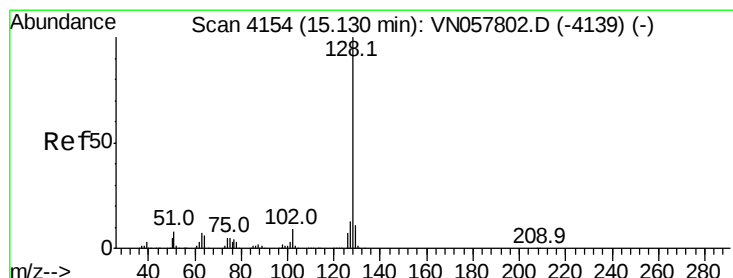
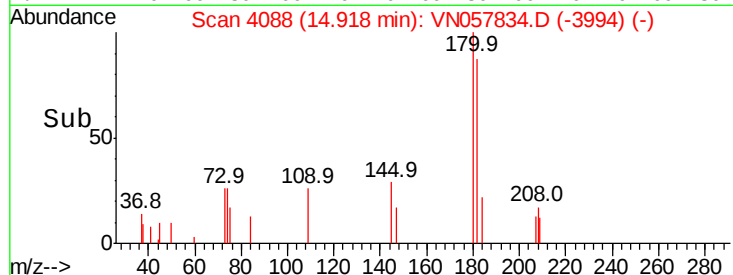
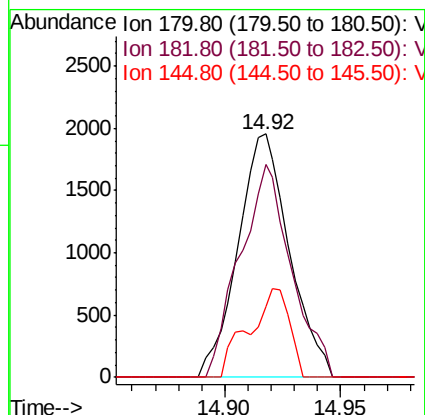
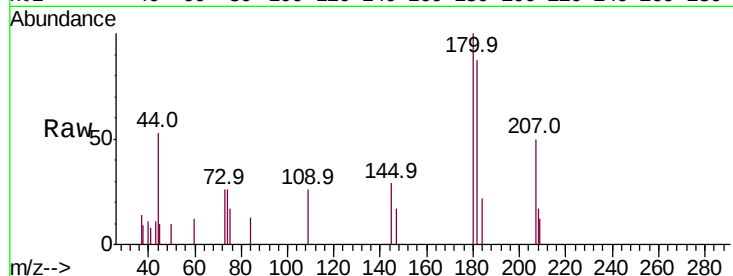




#93
 1,2,4-Trichlorobenzene
 Concen: 0.515 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

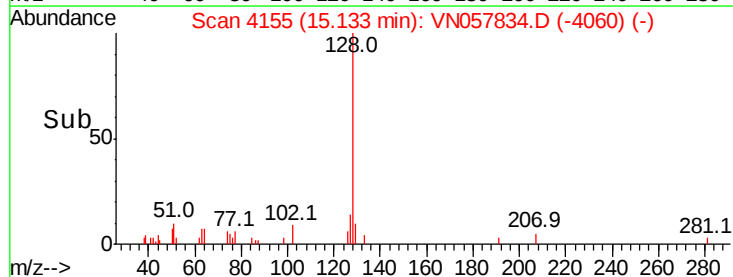
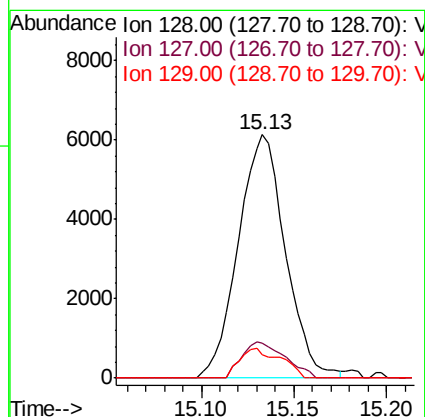
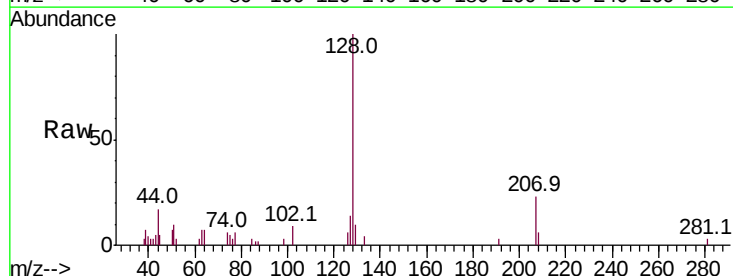
Instrument :
 MSVOA_N
 ClientSampled :

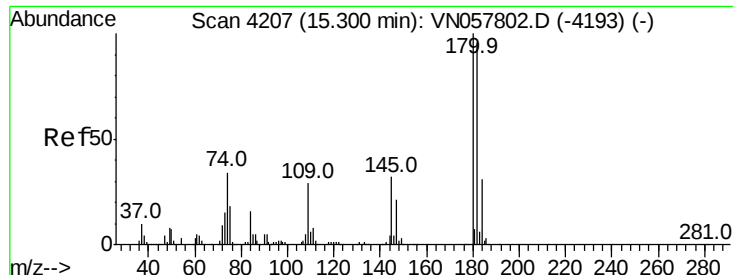
Tot Ion:180 Resp: 3008
 Ion Ratio Lower Upper
 180 100
 182 87.4 46.9 140.8
 145 28.8 14.9 44.7



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057834.D
 Acq: 10 Sep 2019 4:40

Tgt Ion:128 Resp: 10846
 Ion Ratio Lower Upper
 128 100
 127 13.6 10.3 15.5
 129 10.5 8.6 12.8





#96

1,2,3-Trichlorobenzene

Concen: 1.569 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN057834.D

Acq: 10 Sep 2019 4:40

Instrument :

MSVOA_N

ClientSampleId :

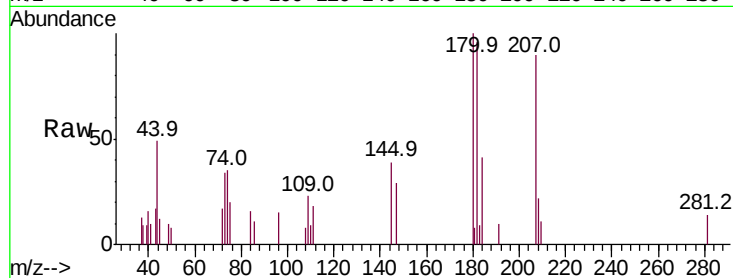
Tot Ion:180 Resp: 2966

Ion Ratio Lower Upper

180 100

182 103.6 48.3 144.8

145 37.0 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

