

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057819.D
 Acq On : 9 Sep 2019 22:25
 Operator : JC/SP
 Sample : K4603-26
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

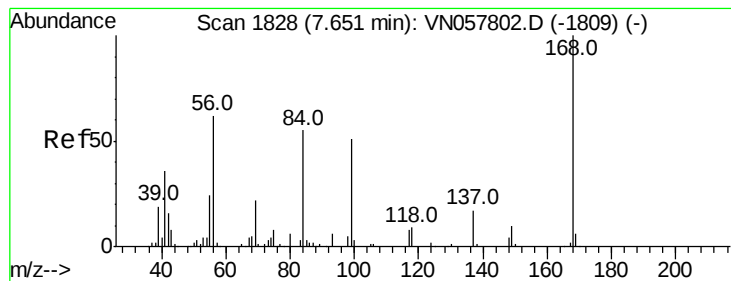
Quant Time: Sep 10 07:11:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	534040	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	497107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	247883	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	343618	54.59	ug/l	0.00
Spiked Amount			Recovery	=	109.18%	
35) Dibromofluoromethane	7.58	113	235743	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	975527	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	307996	42.23	ug/l	0.00
Spiked Amount			Recovery	=	84.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	763	Below Cal	#	62
13) Acrolein	3.59	56	131	0.203	ug/l #	14
16) Acetone	3.81	43	10695	5.183	ug/l	98
17) Carbon Disulfide	4.02	76	1165	0.384	ug/l #	75
18) Methyl Acetate	4.32	43	4206	0.764	ug/l #	86
20) Methylene Chloride	4.52	84	11622	1.771	ug/l	97
25) 2-Butanone	6.84	43	2004	0.671	ug/l #	88
31) Cyclohexane	7.65	56	8706	Below Cal	#	44
36) 1,1-Dichloropropene	7.65	75	27388	4.422	ug/l #	50
38) Carbon Tetrachloride	7.65	117	32436	5.736	ug/l #	17
43) Isopropyl Acetate	8.15	43	85339	7.930	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1819	0.335	ug/l #	44
48) Methyl methacrylate	9.18	41	4839	0.886	ug/l #	13
49) 1,4-Dioxane	9.26	88	102	1.105	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6689	1.050	ug/l	88
54) cis-1,3-Dichloropropene	9.90	75	38118	5.008	ug/l #	65
59) 2-Hexanone	10.76	43	102306	21.434	ug/l #	53
74) N-amyl acetate	12.04	43	1967	0.235	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	174048	31.038	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	174048	109.224	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.91	180	2352	0.409	ug/l	80
95) Naphthalene	15.13	128	11125	Below Cal		99
96) 1,2,3-Trichlorobenzene	15.30	180	3307	1.644	ug/l	86

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

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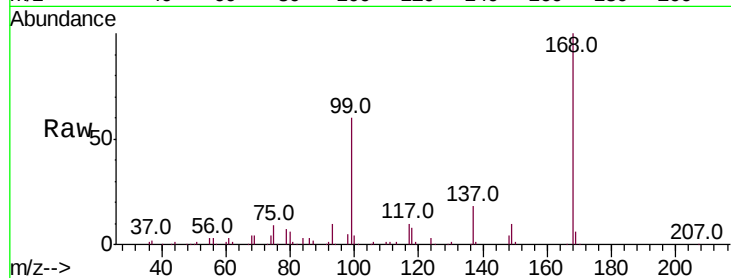
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 310790

Ion Ratio Lower Upper

168 100

99 60.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

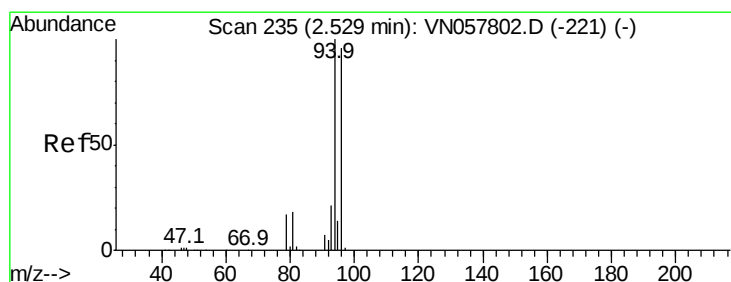
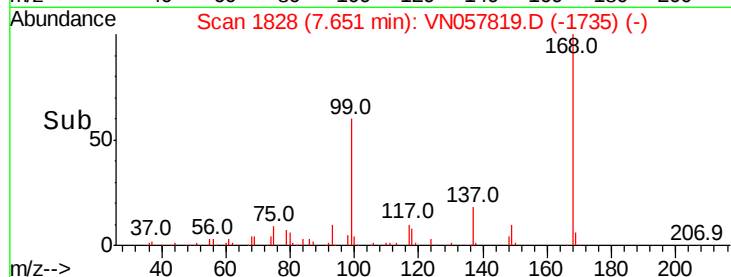
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN057819.D

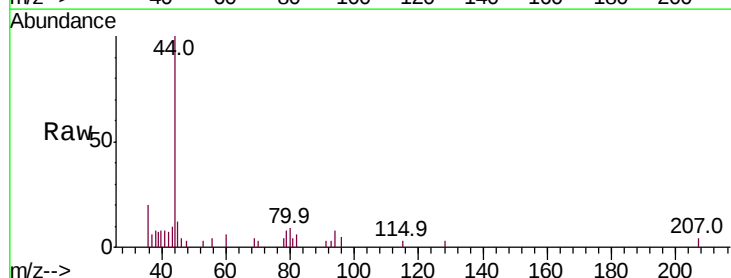
Acq: 9 Sep 2019 22:25

Tgt Ion: 94 Resp: 763

Ion Ratio Lower Upper

94 100

96 58.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

400

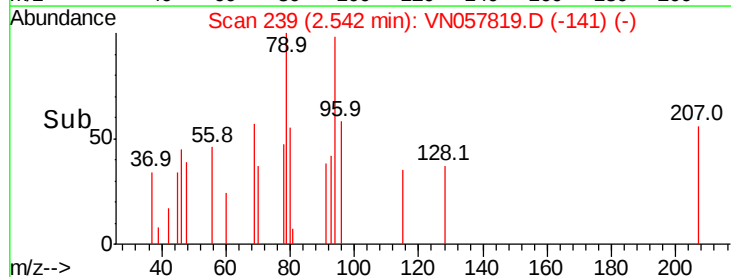
300

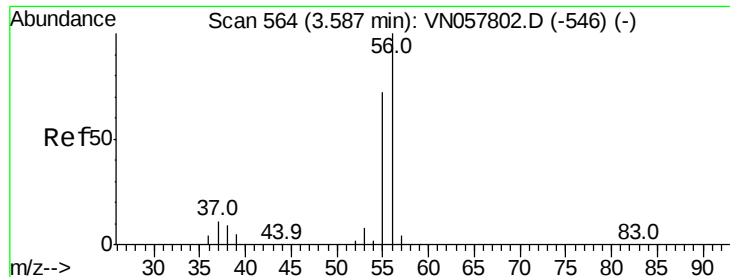
200

100

0

Time-->





#13

Acrolein

Concen: 0.203 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

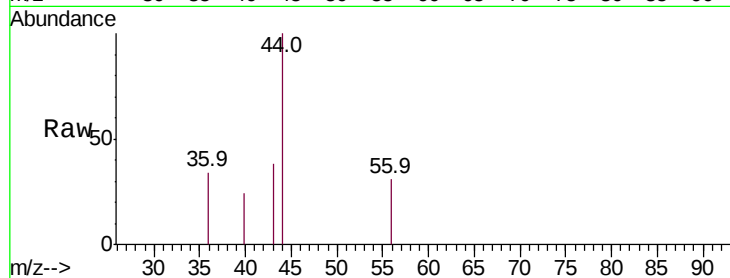
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 131

Ion Ratio Lower Upper

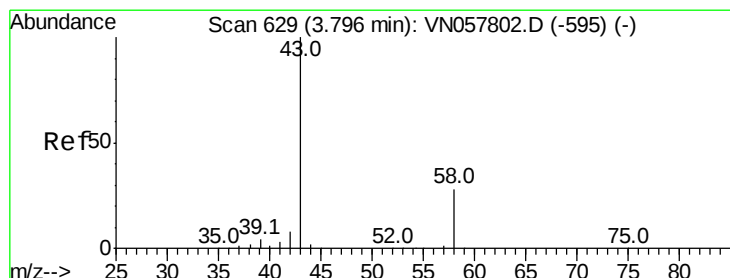
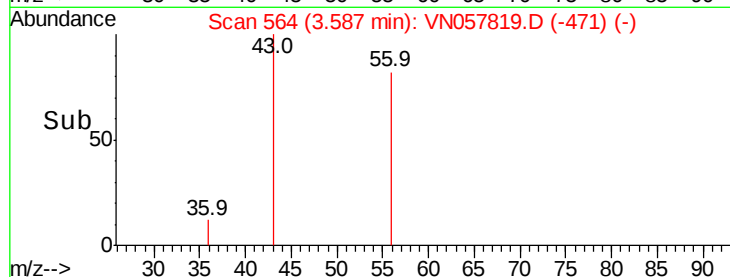
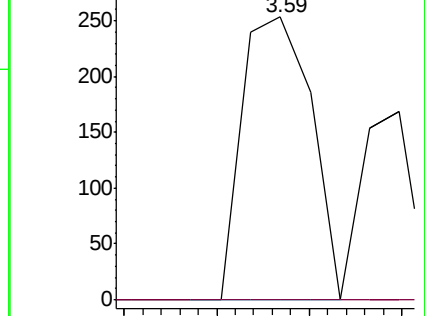
56 100

55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.183 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.01 min

Lab File: VN057819.D

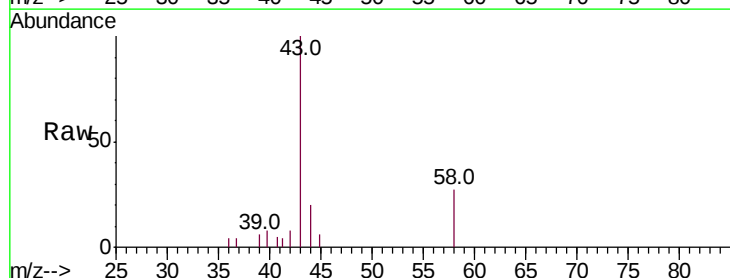
Acq: 9 Sep 2019 22:25

Tgt Ion: 43 Resp: 10695

Ion Ratio Lower Upper

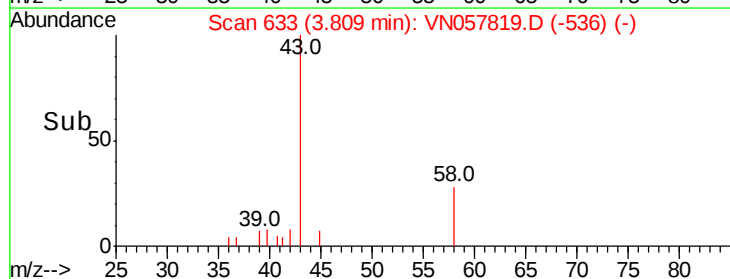
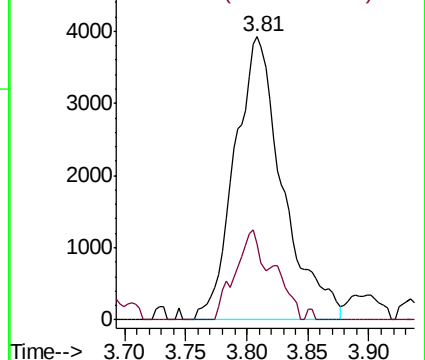
43 100

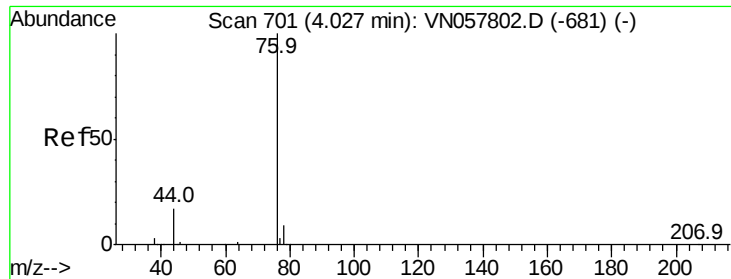
58 26.8 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

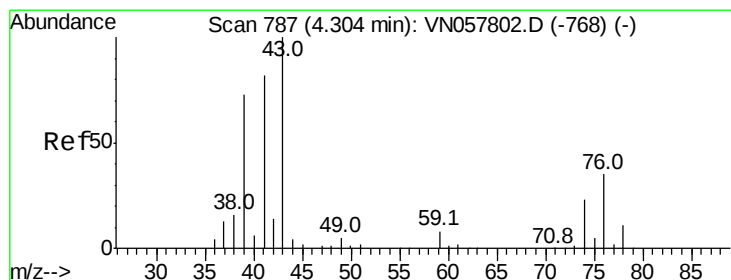
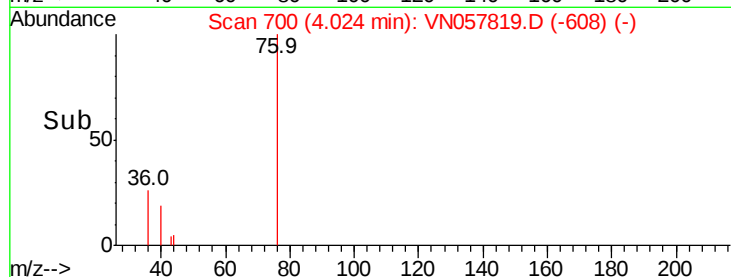
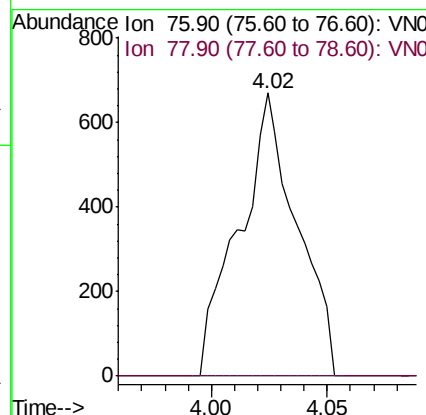
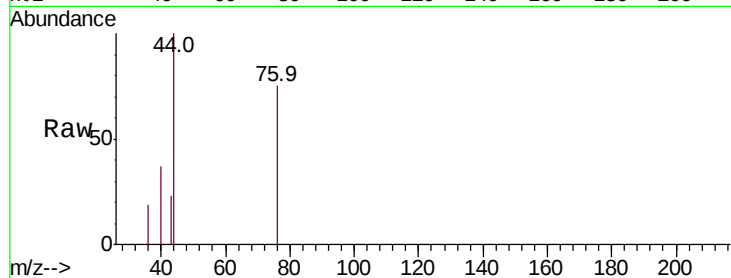




#17
Carbon Disulfide
Concen: 0.384 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

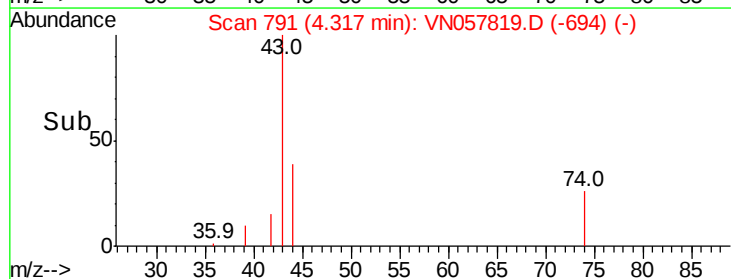
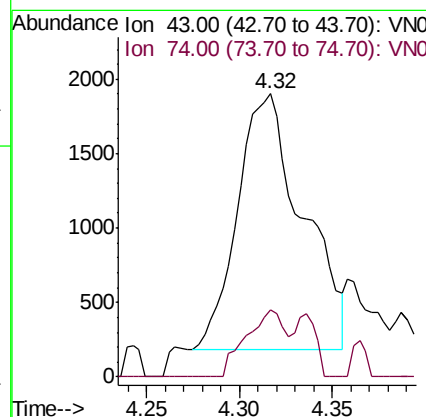
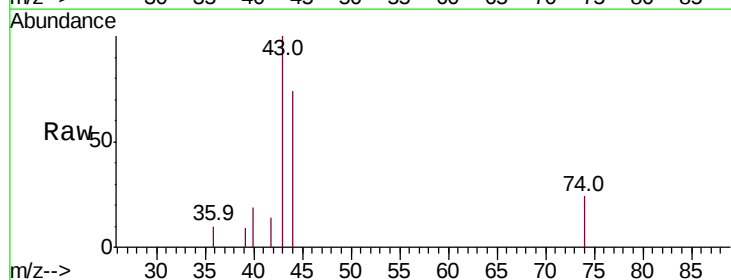
Instrument :
MSVOA_N
ClientSampleId :

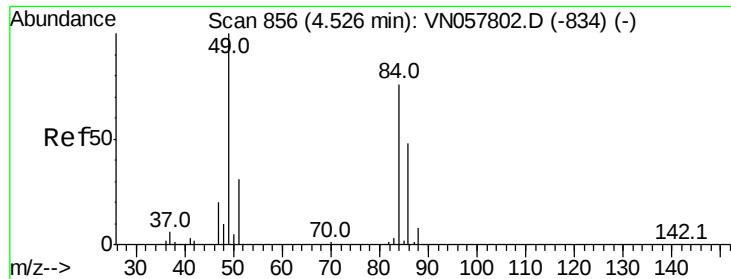
Tot Ion: 76 Resp: 1165
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 0.764 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.01 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

Tgt Ion: 43 Resp: 4206
Ion Ratio Lower Upper
43 100
74 15.5 17.9 26.9#

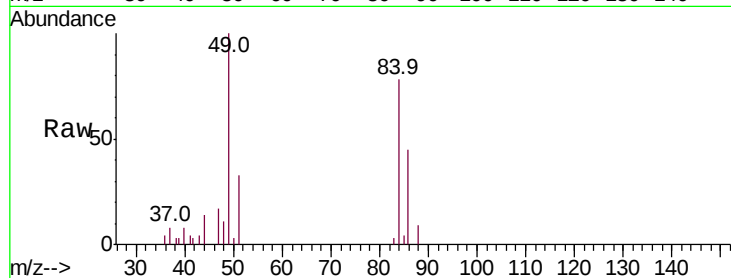




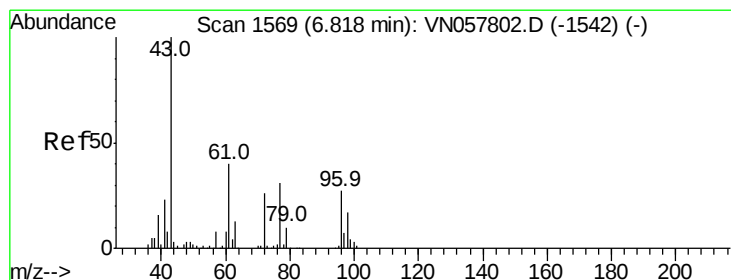
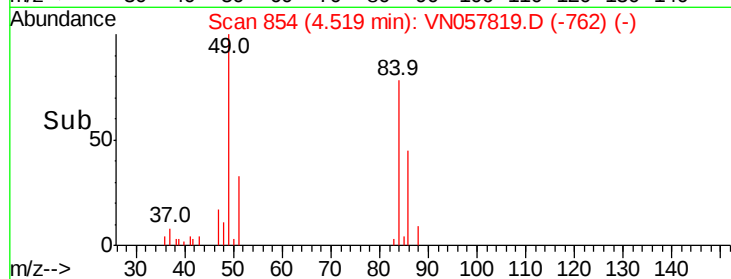
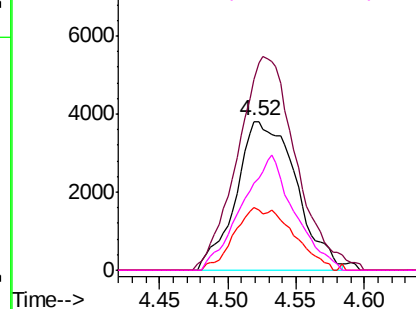
#20
Methvlene Chloride
Concen: 1.771 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.01 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	11622
Ion	Ratio	Lower	Upper
84	100		
49	128.1	104.8	157.2
51	42.1	33.0	49.4
86	58.1	50.5	75.7

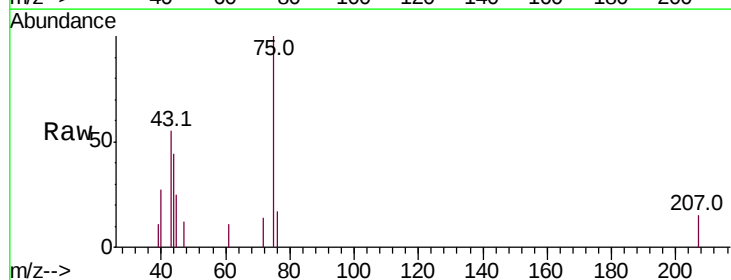


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

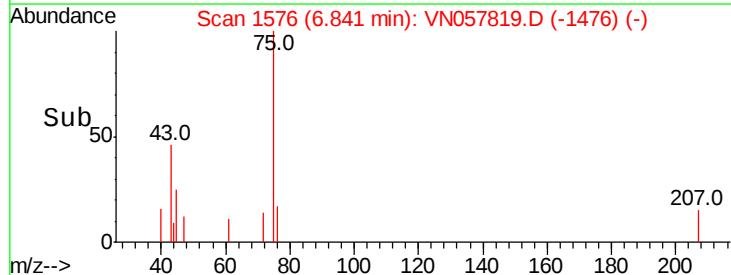
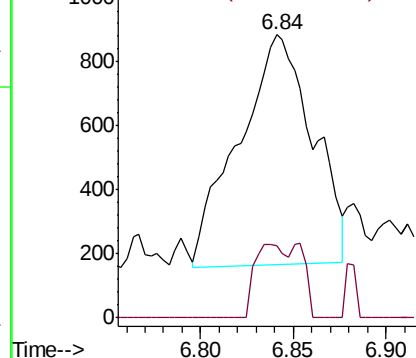


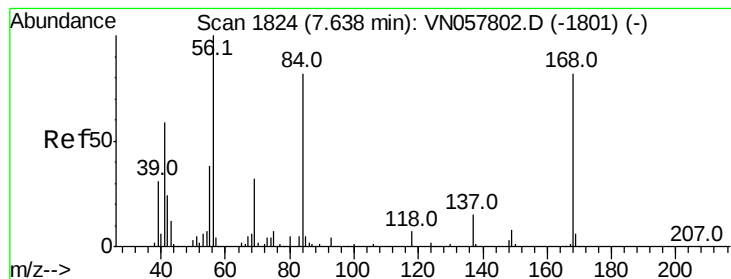
#25
2-Butanone
Concen: 0.671 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

Tgt Ion:	43	Resp:	2004
Ion	Ratio	Lower	Upper
43	100		
72	31.6	20.6	30.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

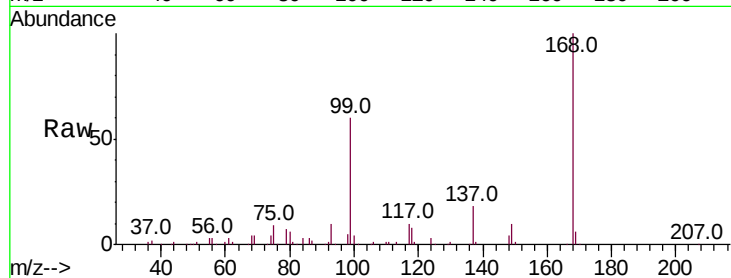
Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

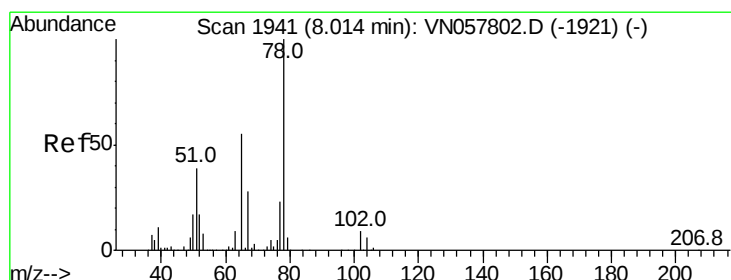
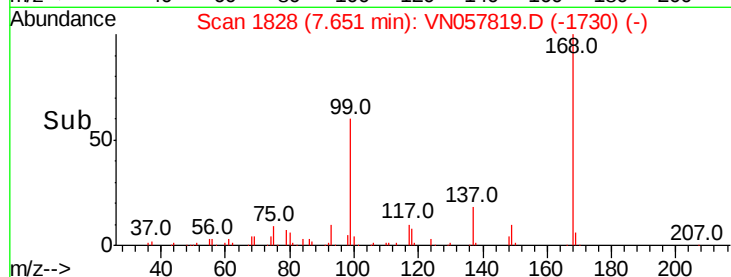
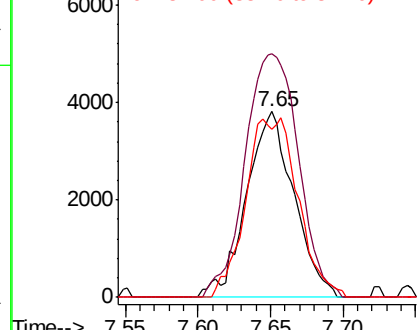
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 8706

Ion	Ratio	Lower	Upper
56	100		
69	130.9	25.9	38.9#
84	90.3	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: 54.588 ug/l

RT: 8.01 min Scan# 1941

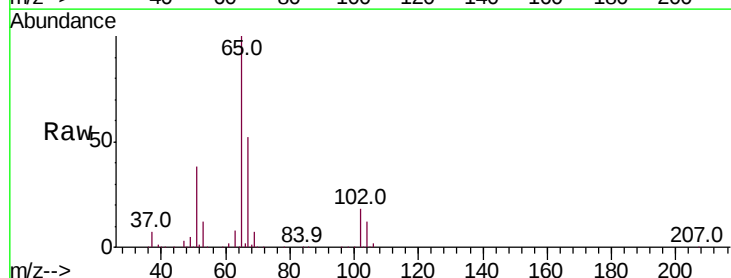
Delta R.T. 0.00 min

Lab File: VN057819.D

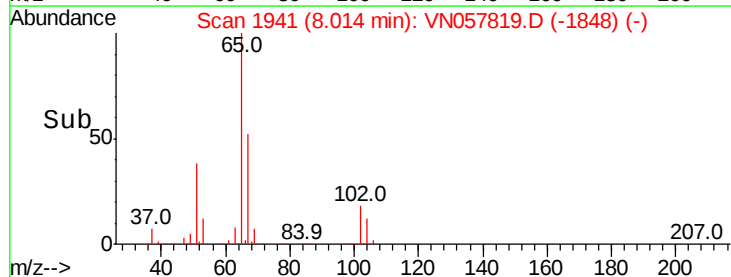
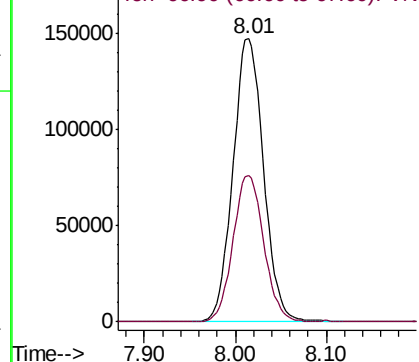
Acq: 9 Sep 2019 22:25

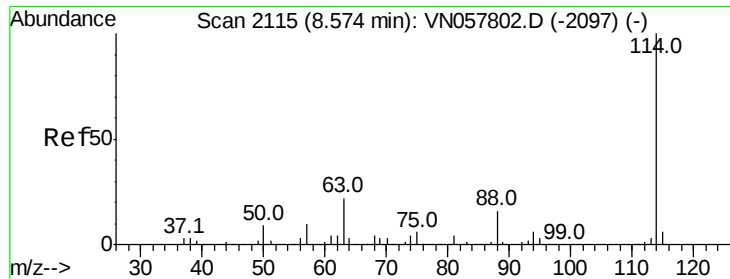
Tgt Ion: 65 Resp: 343618

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.0



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

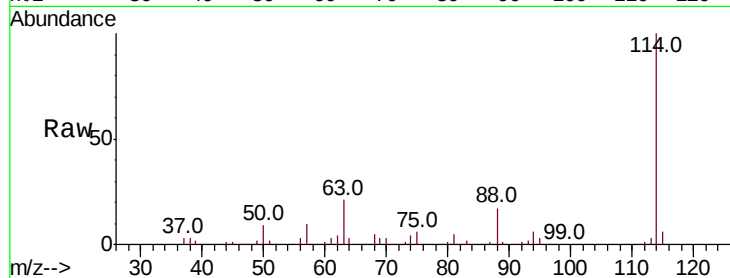




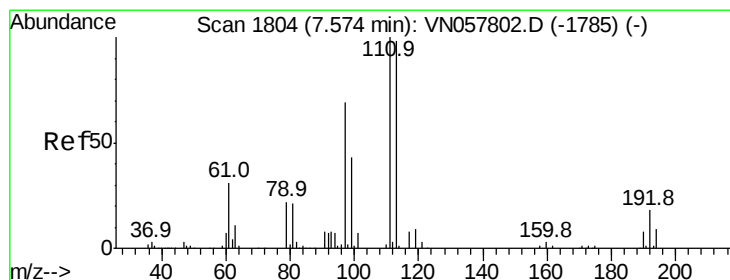
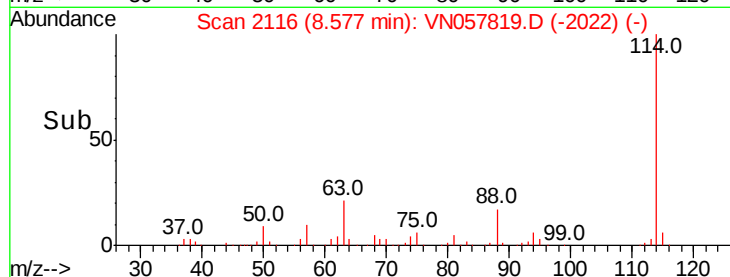
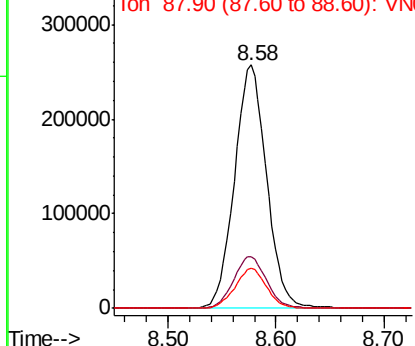
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 534040
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 44.0
 88 16.6 0.0 31.4

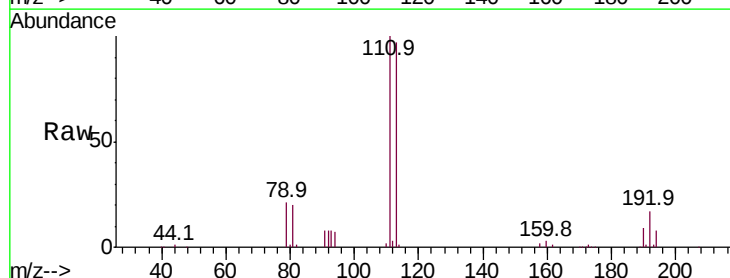


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

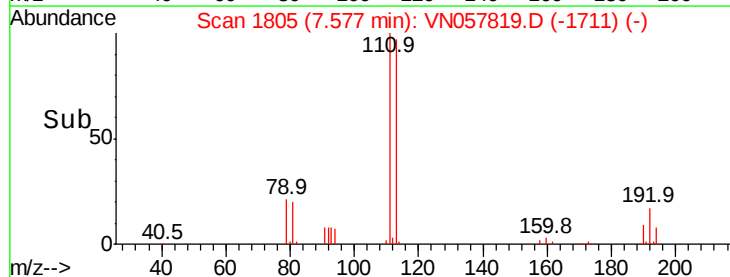
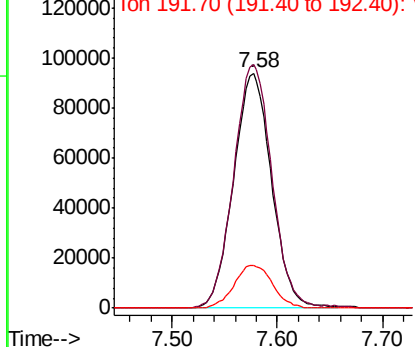


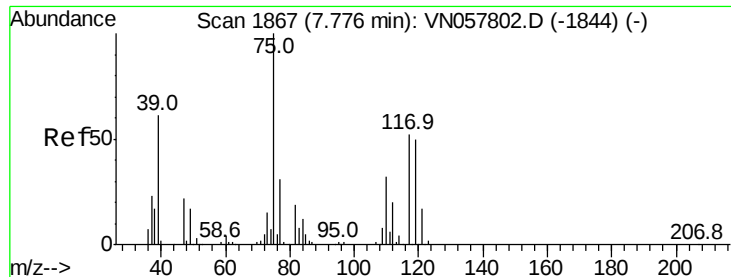
#35
 Dibromofluoromethane
 Concen: 47.828 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Tgt Ion:113 Resp: 235743
 Ion Ratio Lower Upper
 113 100
 111 104.6 81.3 121.9
 192 18.4 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

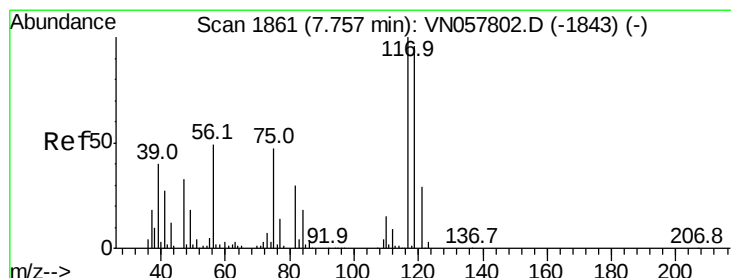
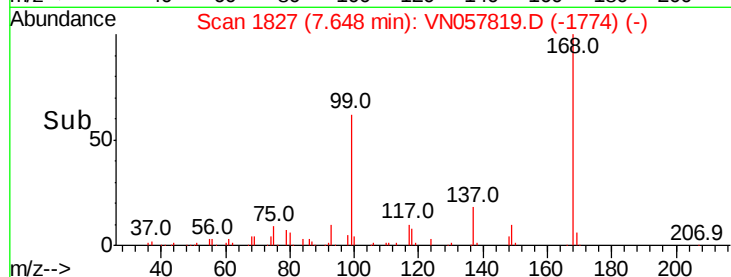
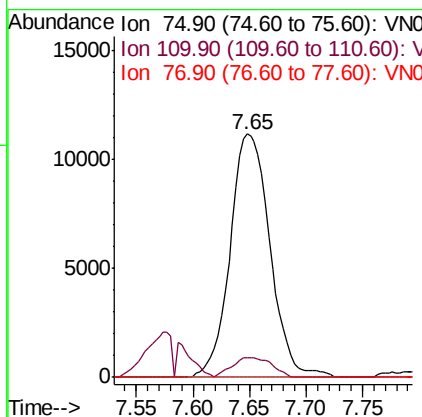
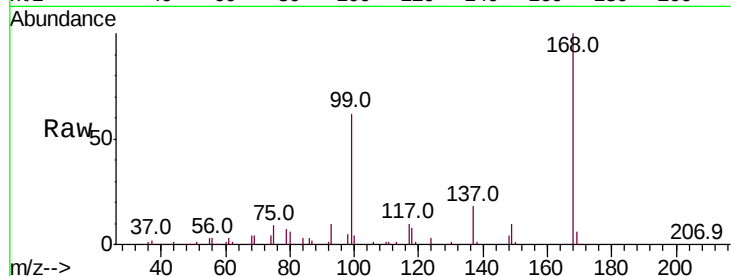




#36
 1,1-Dichloropropene
 Concen: 4.422 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

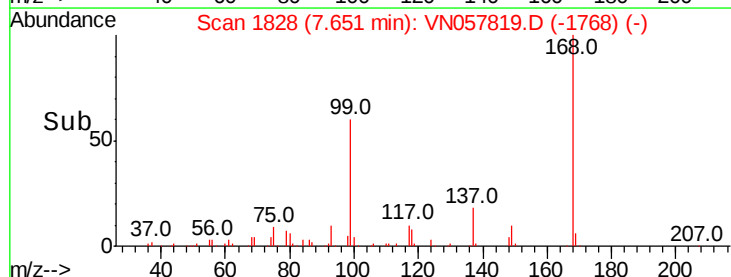
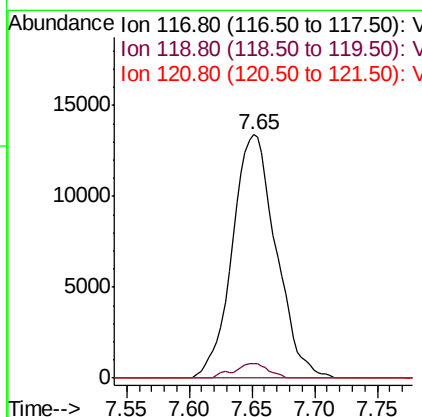
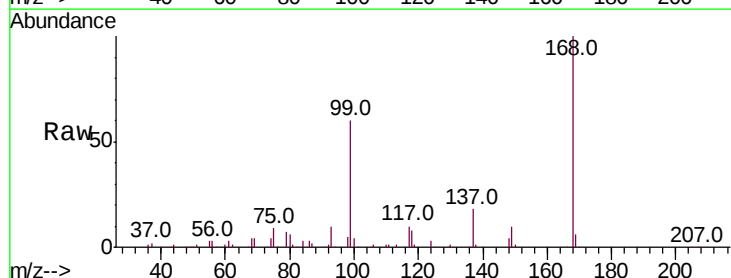
Instrument :
 MSVOA_N
 ClientSampled :

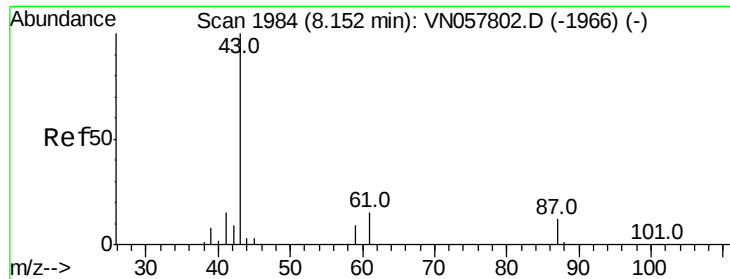
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.736 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 7.930 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

Instrument :

MSVOA_N

ClientSampleId :

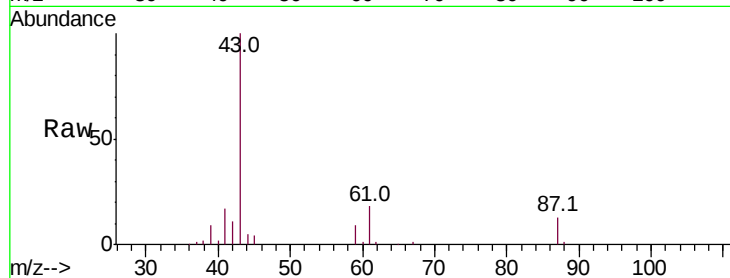
Tot Ion: 43 Resp: 85339

Ion Ratio Lower Upper

43 100

61 19.3 20.1 30.1#

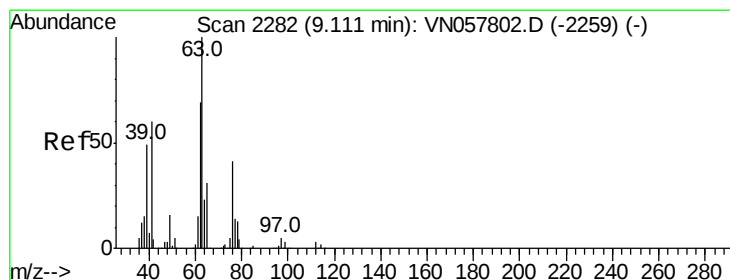
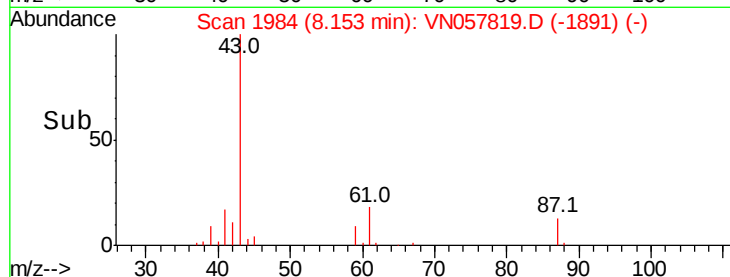
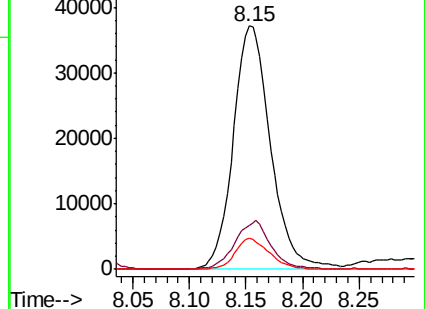
87 11.6 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.335 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057819.D

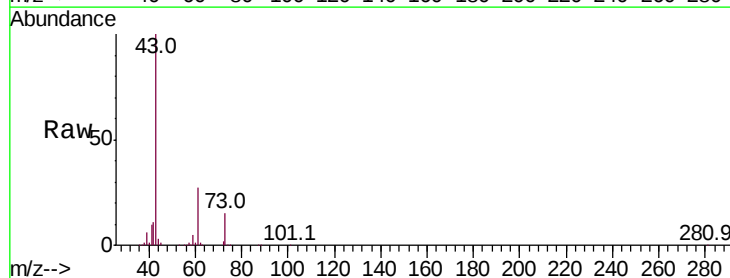
Acq: 9 Sep 2019 22:25

Tgt Ion: 63 Resp: 1819

Ion Ratio Lower Upper

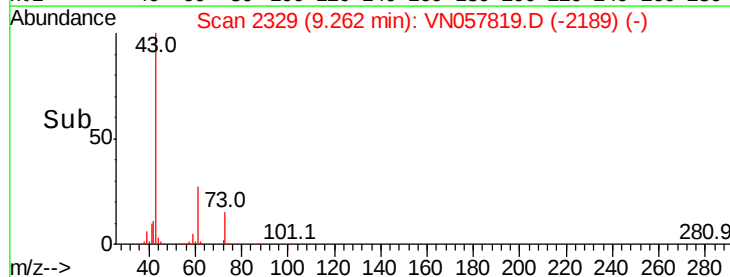
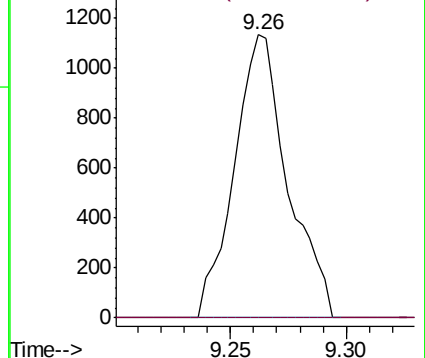
63 100

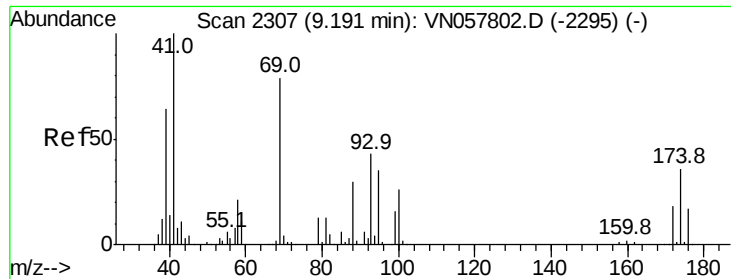
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

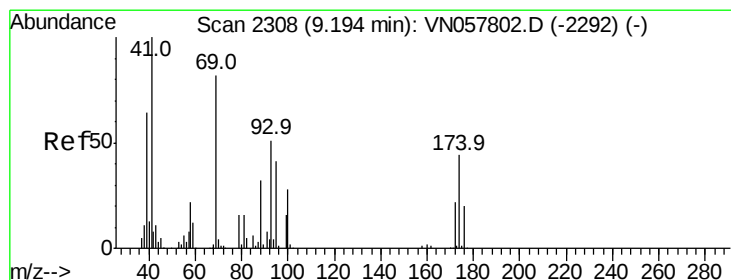
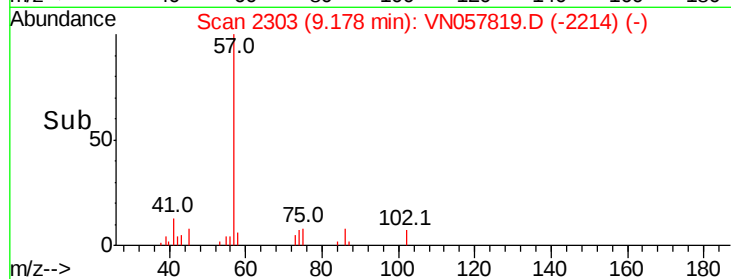
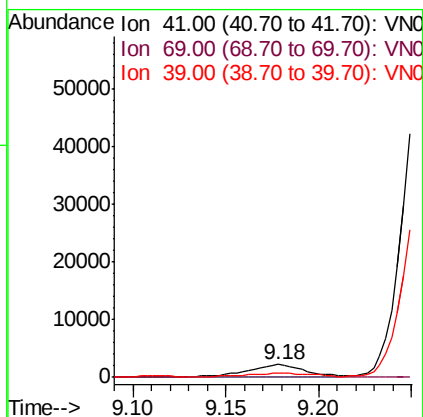
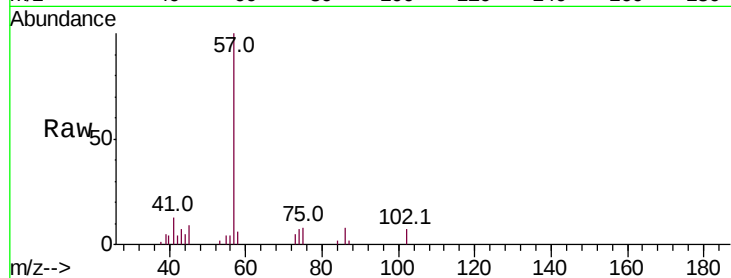




#48
Methyl methacrylate
Concen: 0.886 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.01 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

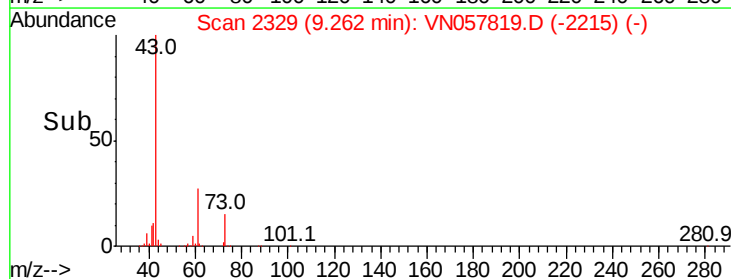
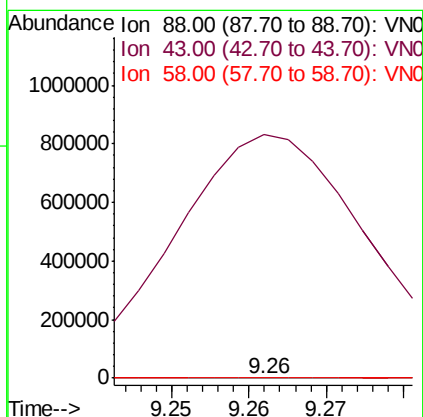
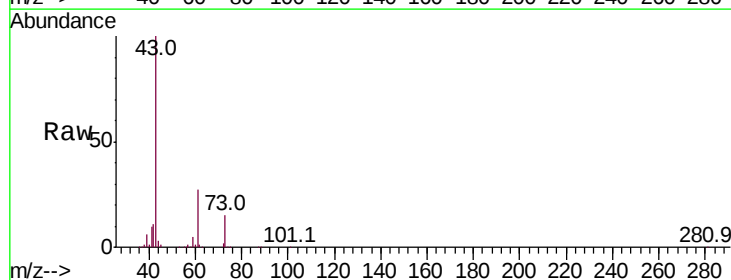
Instrument :
MSVOA_N
ClientSampled :

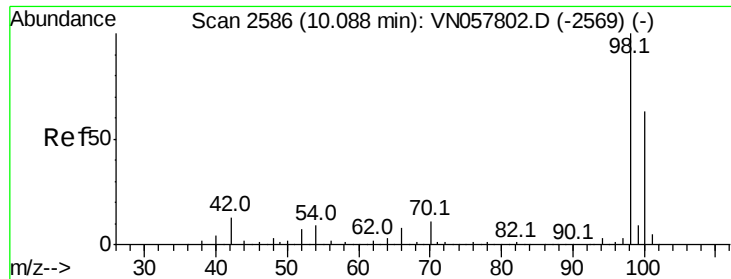
Tot Ion: 41 Resp: 4839
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 1.105 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.07 min
Lab File: VN057819.D
Acq: 9 Sep 2019 22:25

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 1514632.4 28.5 42.7#
58 7026.5 55.8 83.6#





#50

Toluene-d8

Concen: 50.976 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

Instrument :

MSVOA_N

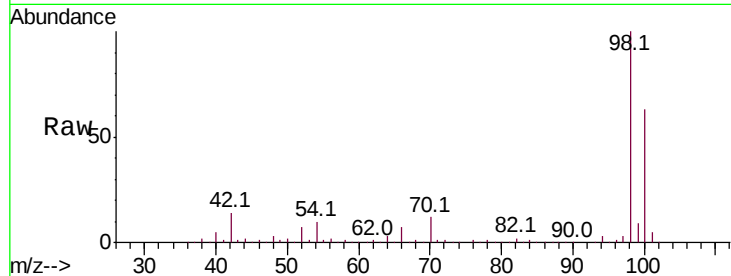
ClientSampleId :

Tot Ion: 98 Resp: 975527

Ion Ratio Lower Upper

98 100

100 62.7 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

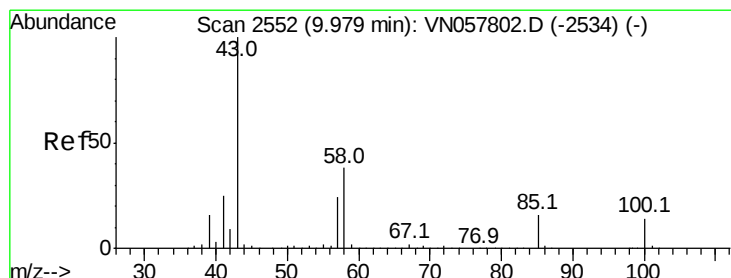
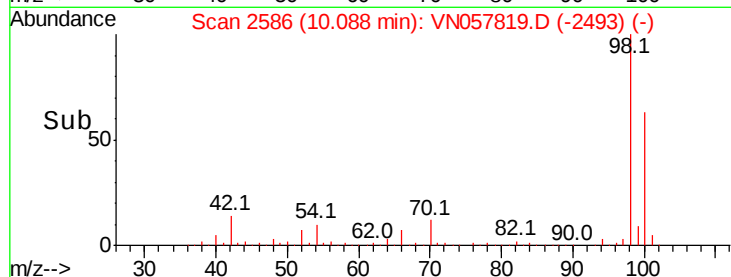
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.050 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057819.D

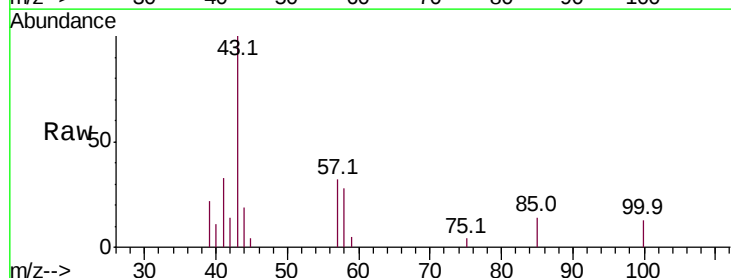
Acq: 9 Sep 2019 22:25

Tgt Ion: 43 Resp: 6689

Ion Ratio Lower Upper

43 100

58 30.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

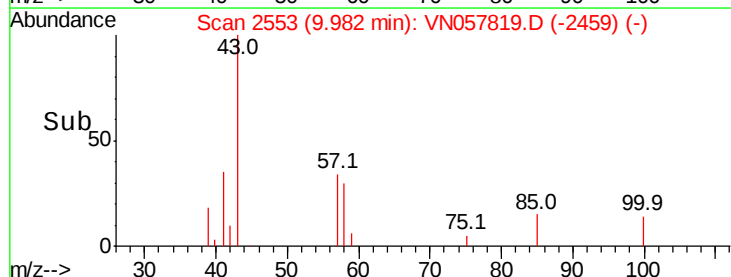
3000

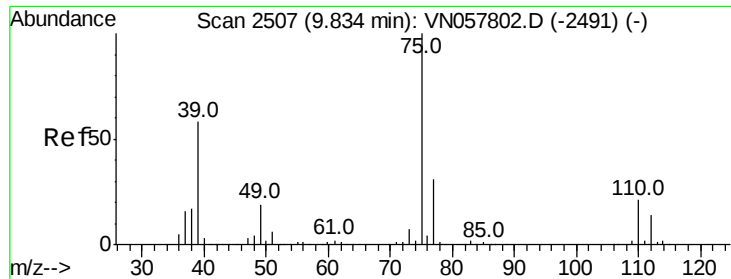
2000

1000

0

Time-->



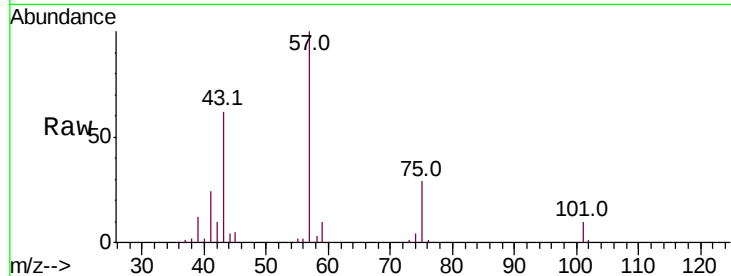


#54

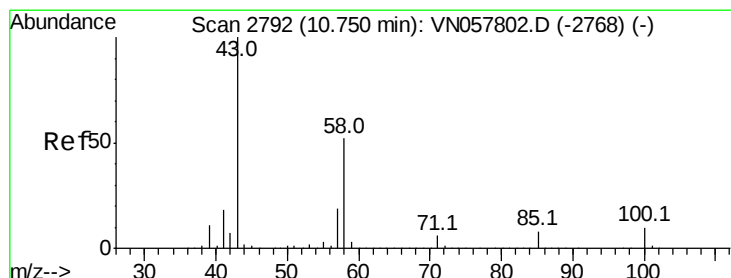
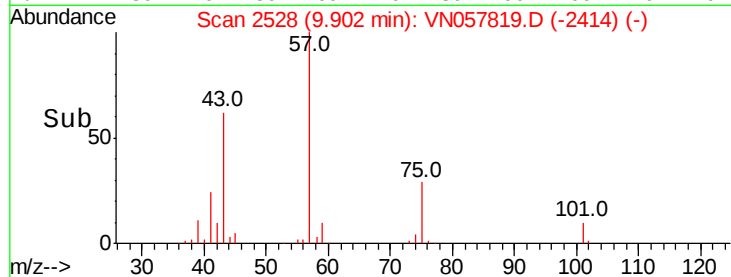
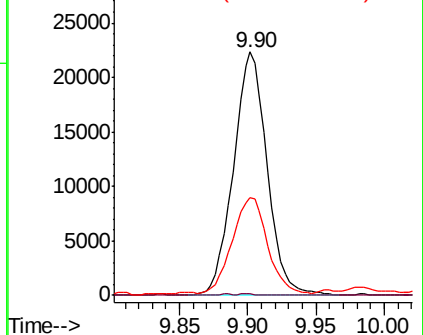
cis-1,3-Dichloropropene
 Concen: 5.008 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 38118
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.8 37.2#
 39 39.2 46.2 69.4#



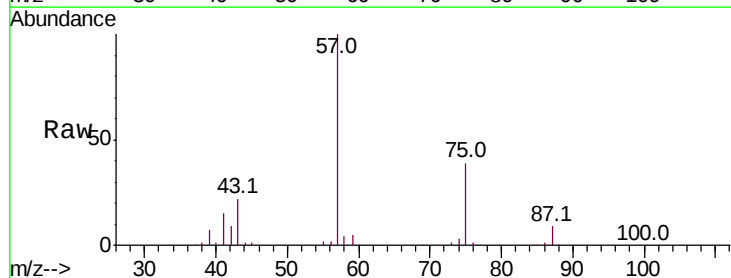
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



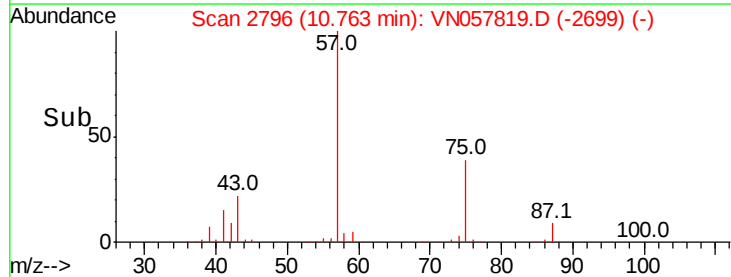
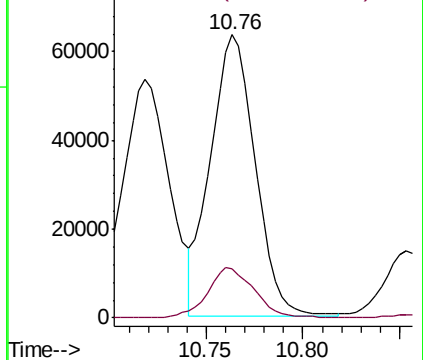
#59

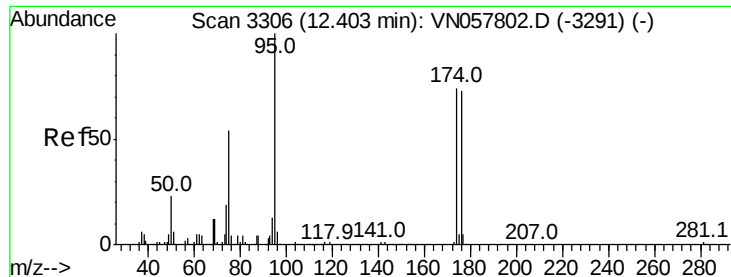
2-Hexanone
 Concen: 21.434 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Tgt Ion: 43 Resp: 102306
 Ion Ratio Lower Upper
 43 100
 58 18.5 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.233 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

Instrument :

MSVOA_N

ClientSampled :

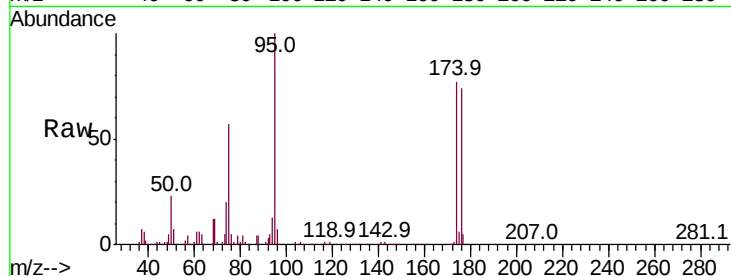
Tot Ion: 95 Resp: 307996

Ion Ratio Lower Upper

95 100

174 76.2 0.0 150.2

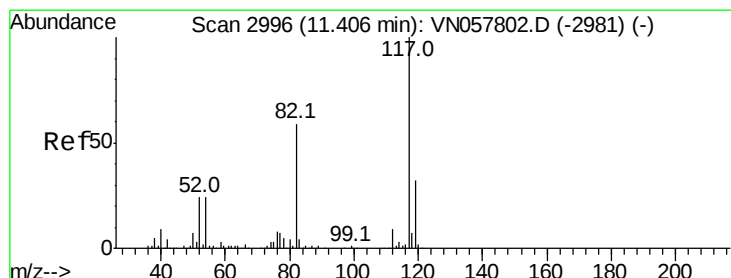
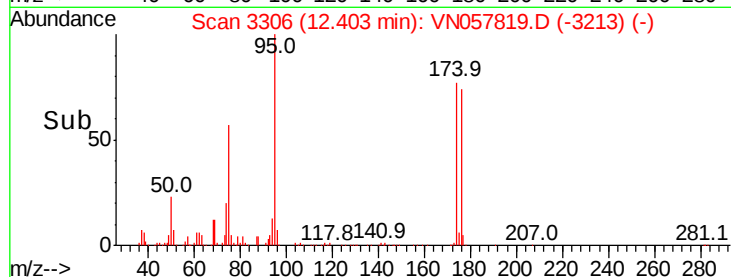
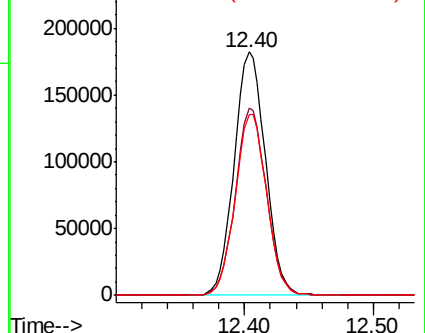
176 74.4 0.0 146.0



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: VN057819.D

Acq: 9 Sep 2019 22:25

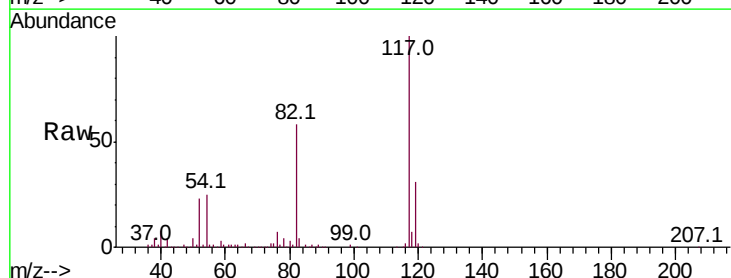
Tgt Ion: 117 Resp: 497107

Ion Ratio Lower Upper

117 100

82 58.2 47.2 70.8

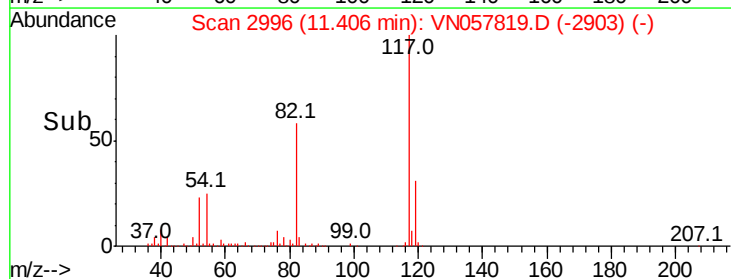
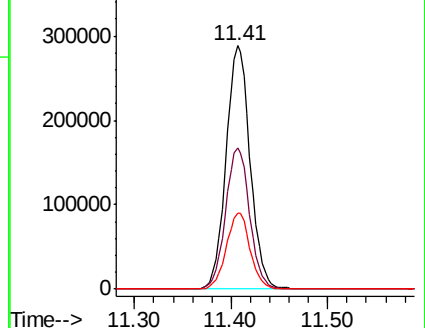
119 31.1 25.3 37.9

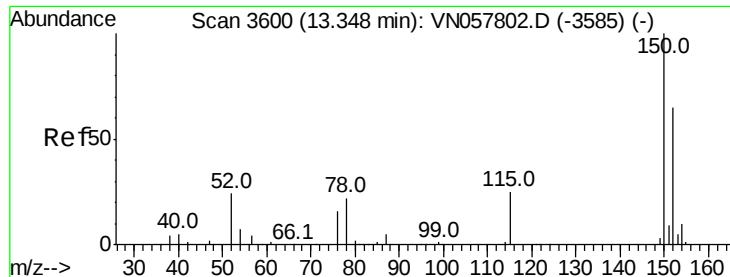


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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: VN057819.D

Acq: 9 Sep 2019 22:25

Instrument :

MSVOA_N

ClientSampleId :

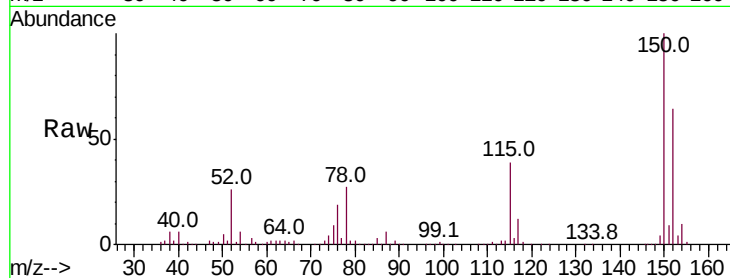
Tot Ion:152 Resp: 247883

Ion Ratio Lower Upper

152 100

115 60.9 30.3 91.0

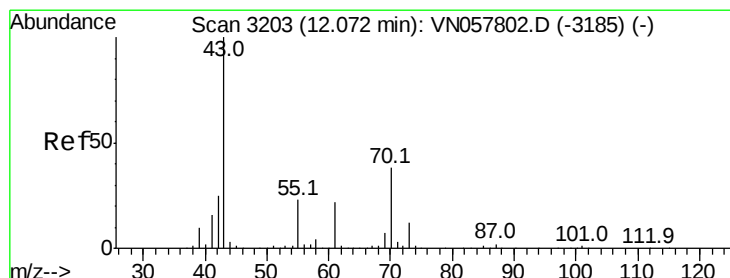
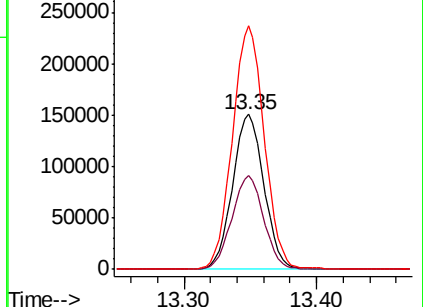
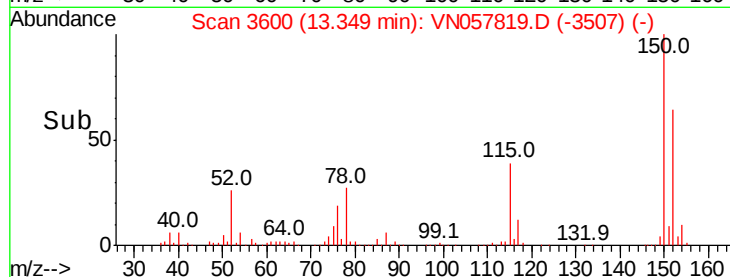
150 159.1 0.0 352.4



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: 0.235 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

Tgt Ion: 43 Resp: 1967

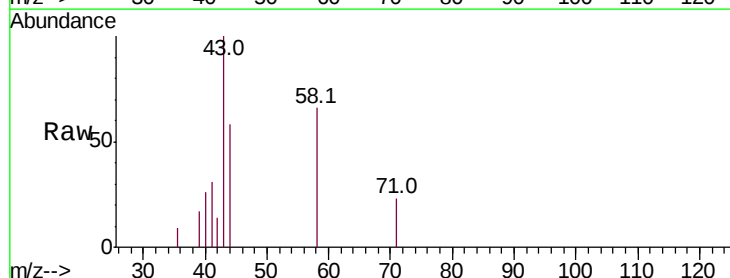
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 5.6 18.6 27.8#

61 0.0 17.4 26.2#

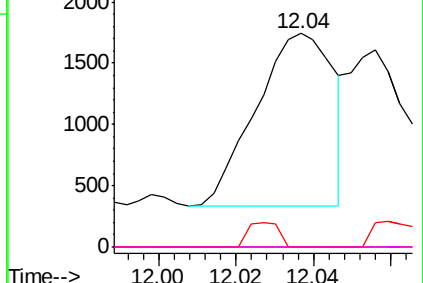
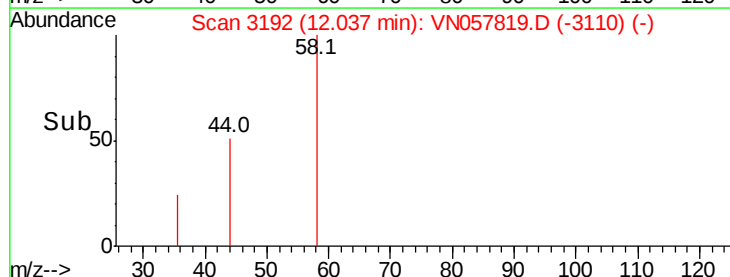


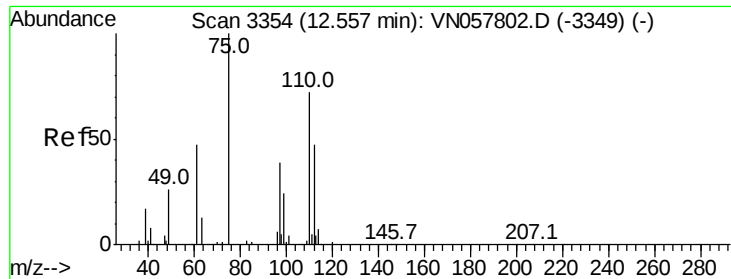
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.038 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

Instrument :

MSVOA_N

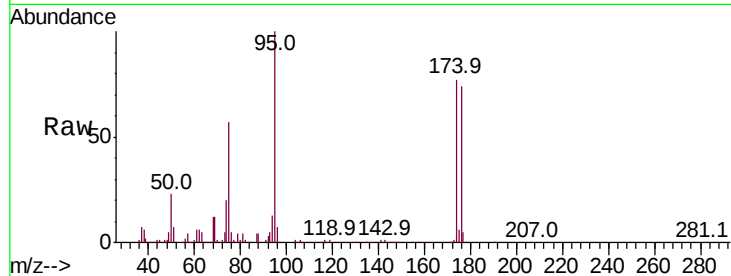
ClientSampleId :

Tot Ion: 75 Resp: 174048

Ion Ratio Lower Upper

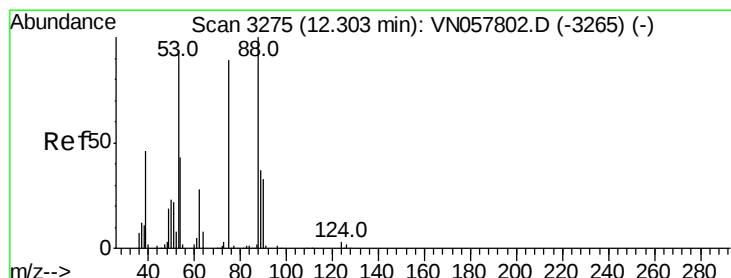
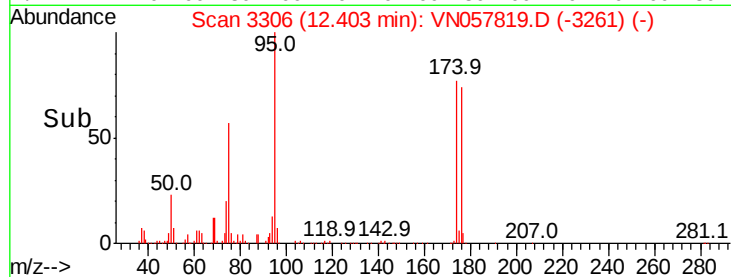
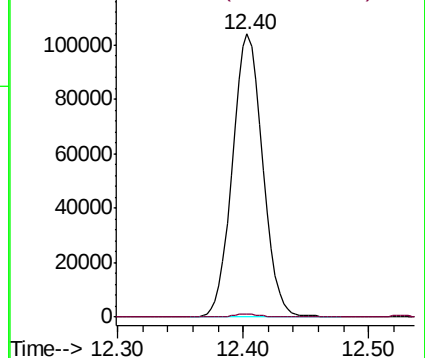
75 100

77 1.0 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: 109.224 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057819.D

Acq: 9 Sep 2019 22:25

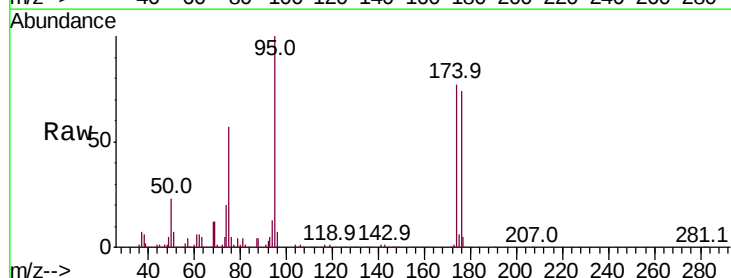
Tgt Ion: 75 Resp: 174048

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

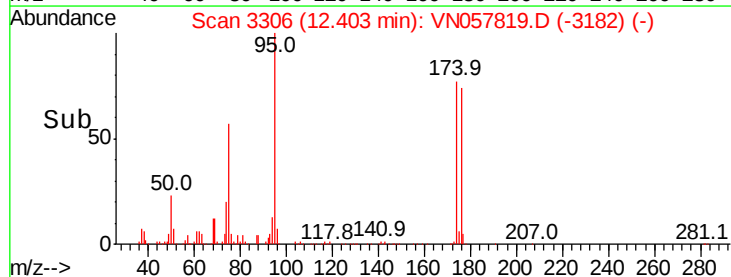
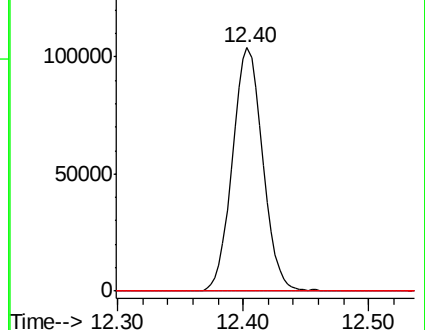
89 0.0 35.3 52.9#

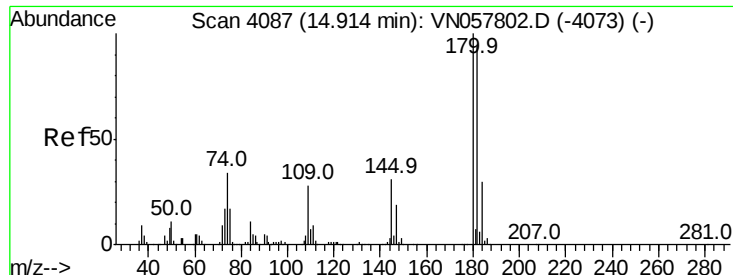


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

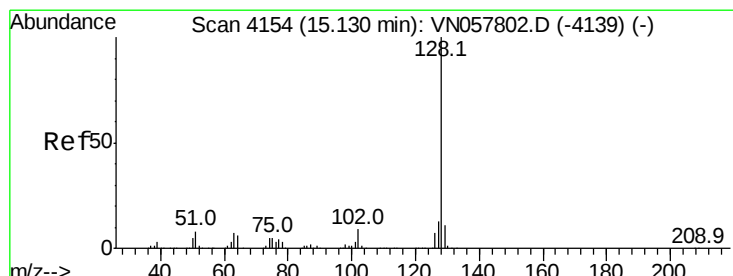
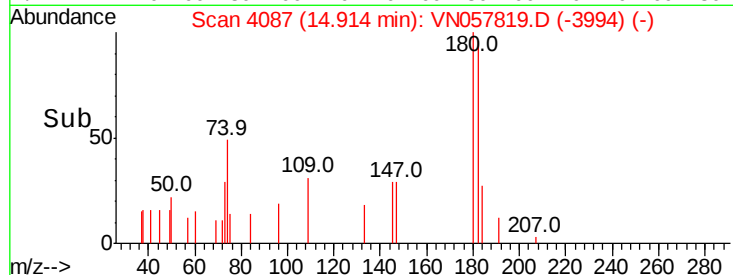
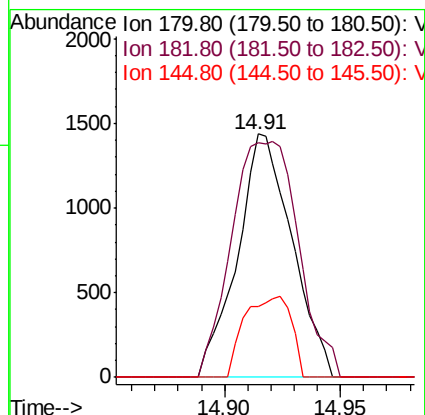
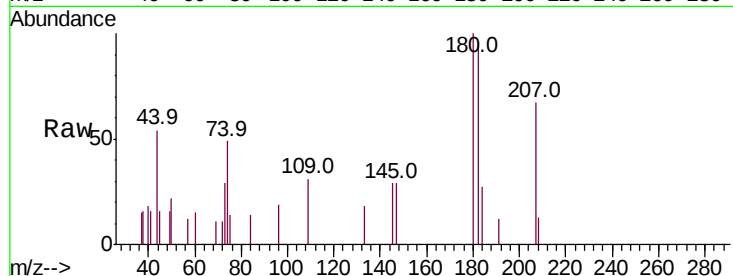




#93
 1,2,4-Trichlorobenzene
 Concen: 0.409 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

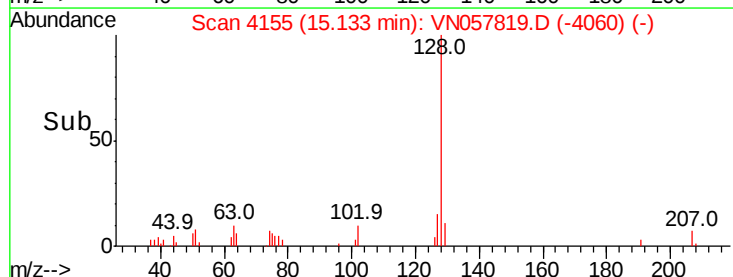
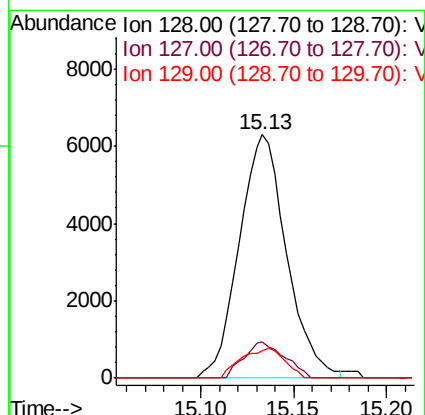
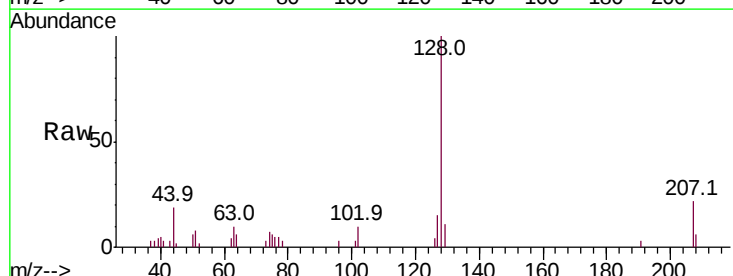
Instrument :
 MSVOA_N
 ClientSampleId :

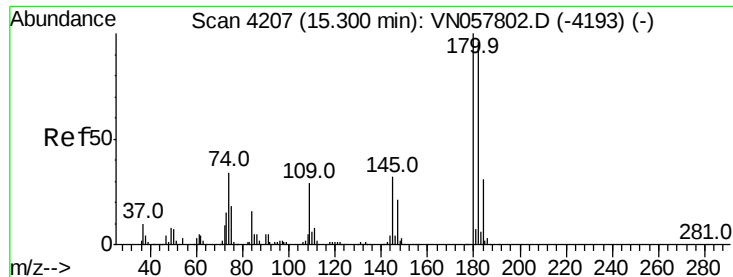
Tot Ion	Ratio	Lower	Upper
180	100		
182	118.7	46.9	140.8
145	28.2	14.9	44.7



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	11.2	8.6	12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 1.644 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN057819.D
 Acq: 9 Sep 2019 22:25

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	82.2	48.3	144.8
145	25.7	16.3	48.8

