

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058067.D
 Acq On : 14 Sep 2019 11:07
 Operator : JC/SP
 Sample : K4862-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 70 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:58:28 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	327766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	577851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	527729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	280442	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	387385	58.35	ug/l	0.00
Spiked Amount			Recovery	=	116.70%	
35) Dibromofluoromethane	7.57	113	260925	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
50) Toluene-d8	10.09	98	1054889	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	12.41	95	346294	43.88	ug/l	0.00
Spiked Amount			Recovery	=	87.76%	

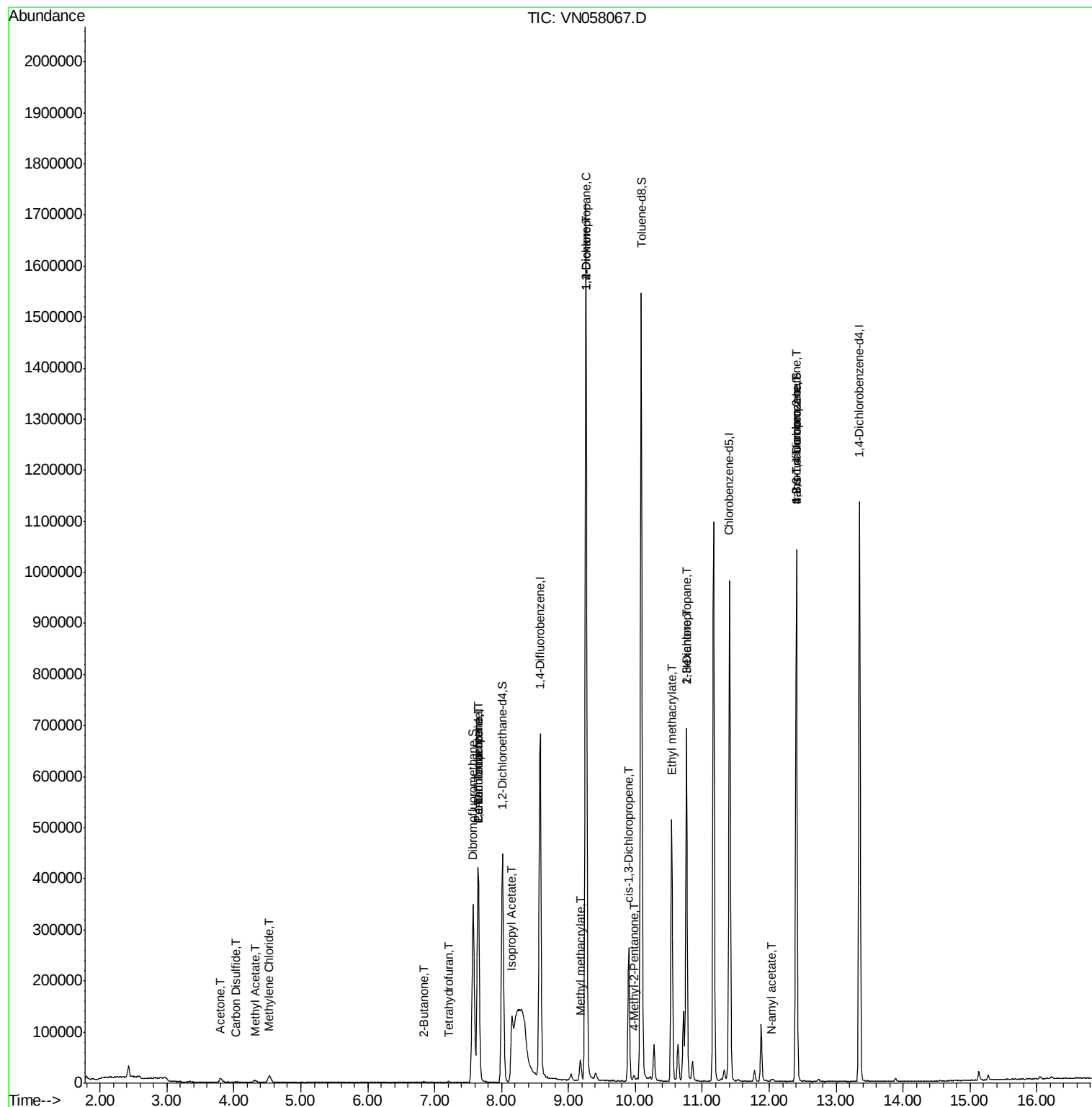
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	101	Below Cal	#	2
16) Acetone	3.80	43	13211	6.070	ug/l	100
17) Carbon Disulfide	4.03	76	664	0.280	ug/l #	75
18) Methyl Acetate	4.31	43	7016	1.209	ug/l #	90
20) Methylene Chloride	4.54	84	9477	1.083	ug/l	91
25) 2-Butanone	6.84	43	3215	1.021	ug/l #	49
29) Tetrahydrofuran	7.20	42	1269	0.654	ug/l #	56
31) Cyclohexane	7.65	56	8319	Below Cal	#	31
36) 1,1-Dichloropropene	7.65	75	28948	4.320	ug/l #	50
38) Carbon Tetrachloride	7.65	117	33707	5.509	ug/l #	15
43) Isopropyl Acetate	8.16	43	151419	13.004	ug/l #	81
45) 1,2-Dichloropropane	9.26	63	2013	0.343	ug/l #	44
48) Methyl methacrylate	9.17	41	5892	0.998	ug/l #	13
49) 1,4-Dioxane	9.25	88	325	3.254	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7444	1.080	ug/l	100
54) cis-1,3-Dichloropropene	9.90	75	43510	5.283	ug/l #	68
56) Ethyl methacrylate	10.54	69	1736	0.214	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6232	0.672	ug/l #	43
59) 2-Hexanone	10.76	43	107041	20.726	ug/l #	53
74) N-amyl acetate	12.04	43	4734	0.500	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	190540	30.034	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190540	105.691	ug/l #	6
95) Naphthalene	15.13	128	13320	Below Cal		98

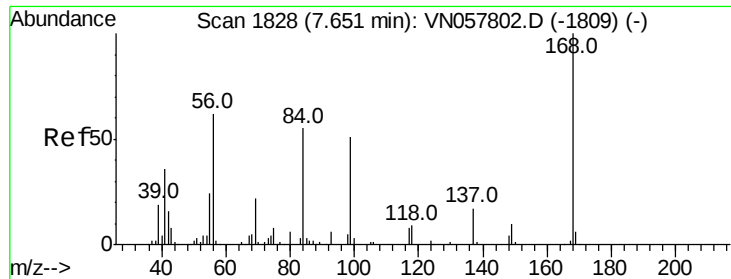
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
ClientSampled :

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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

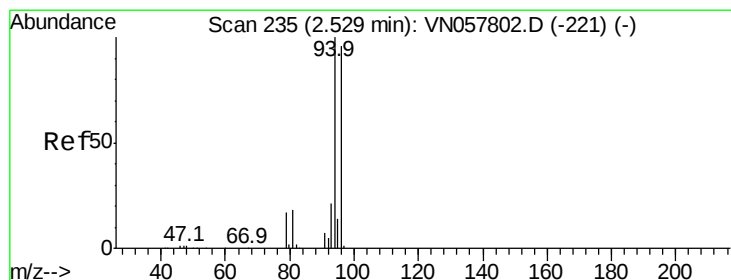
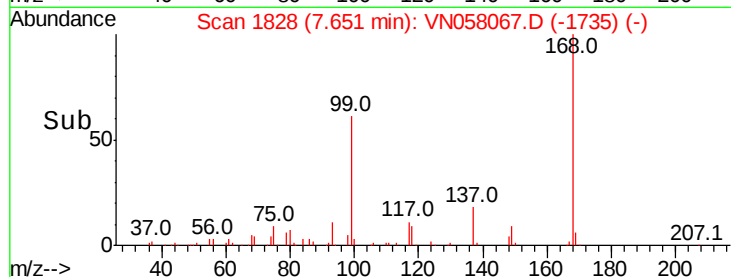
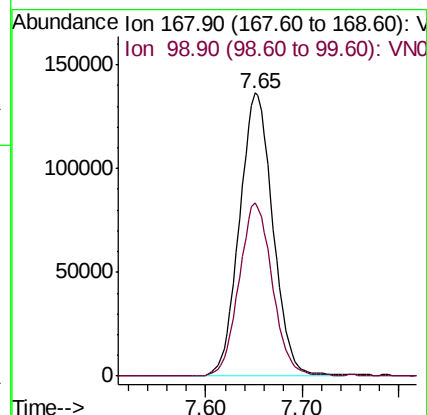
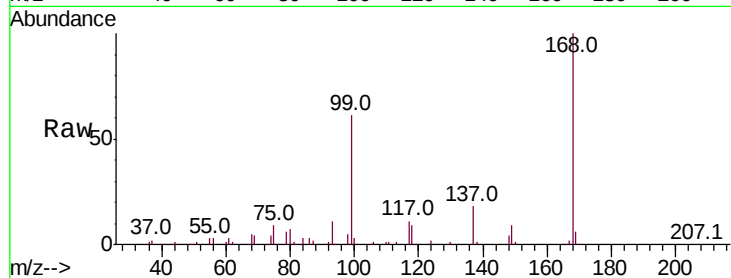




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

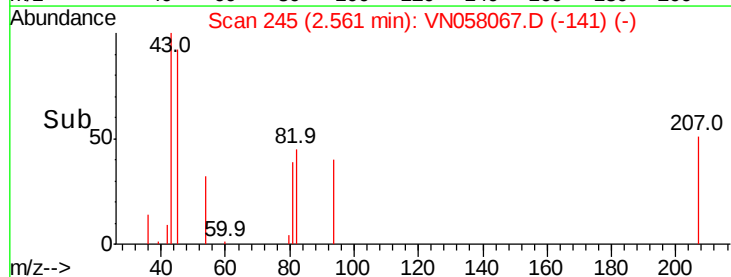
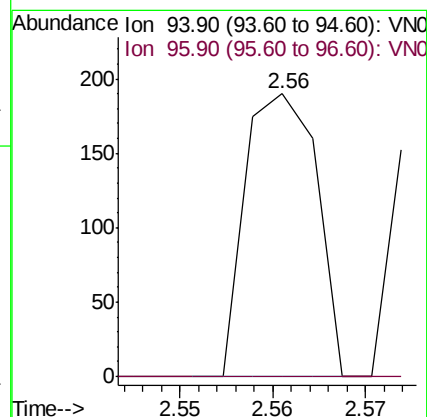
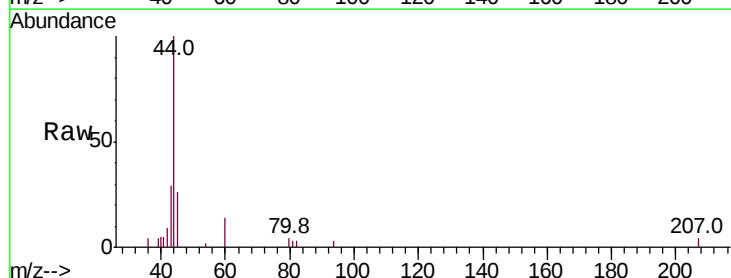
Instrument :
MSVOA_N
ClientSampled :

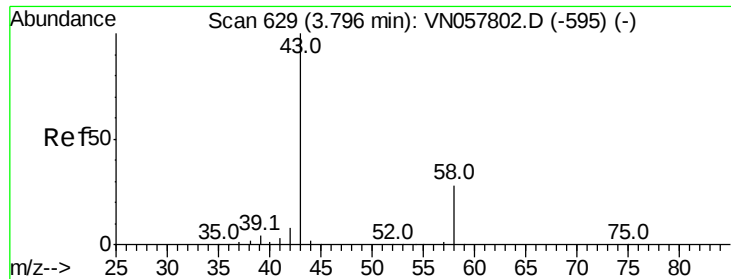
Tot Ion:168 Resp: 327766
Ion Ratio Lower Upper
168 100
99 61.0 48.0 72.0



#5
Bromomethane
Concen: Below Cal
RT: 2.56 min Scan# 245
Delta R.T. 0.03 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Tgt Ion: 94 Resp: 101
Ion Ratio Lower Upper
94 100
96 0.0 77.0 115.4#





#16

Acetone

Concen: 6.070 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

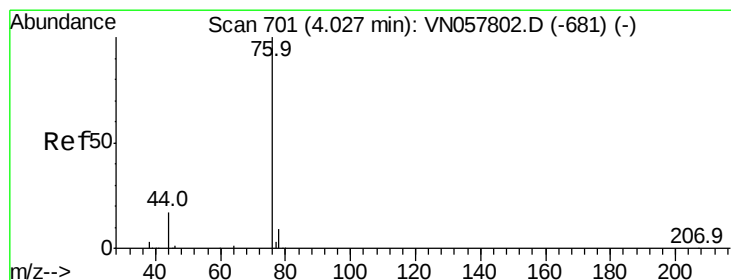
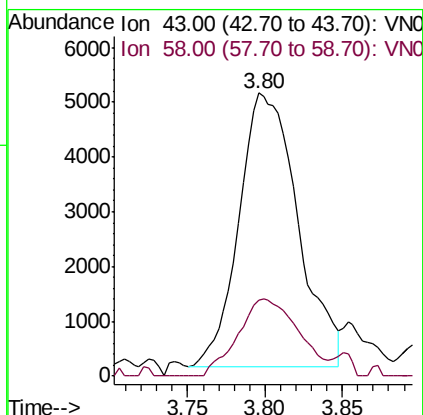
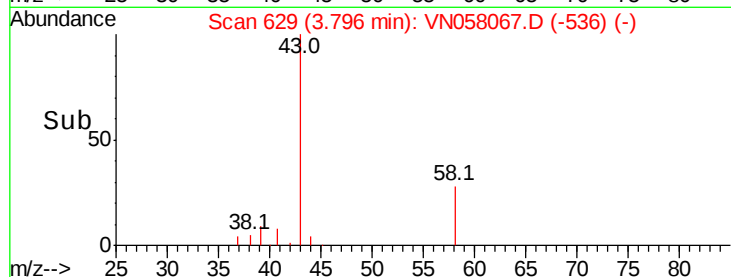
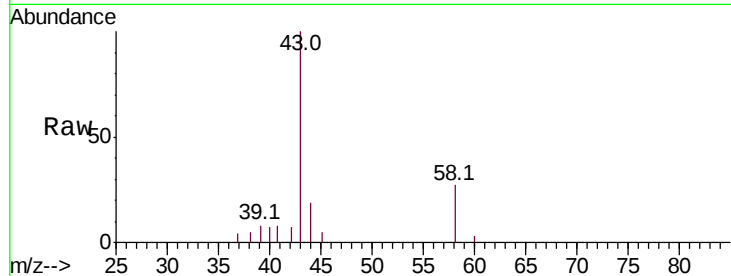
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 13211

Ion Ratio Lower Upper

43 100

58 27.6 22.2 33.2



#17

Carbon Disulfide

Concen: 0.280 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058067.D

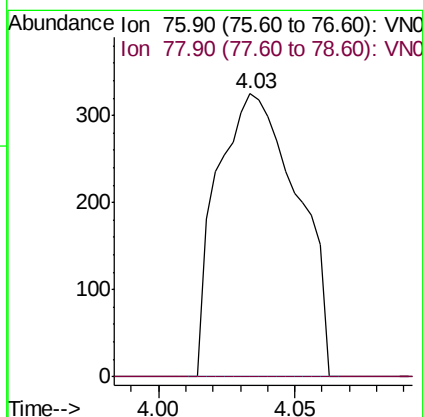
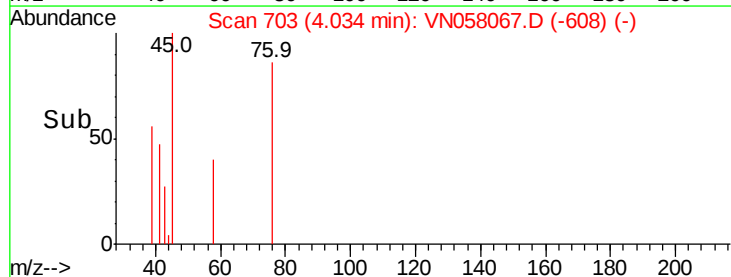
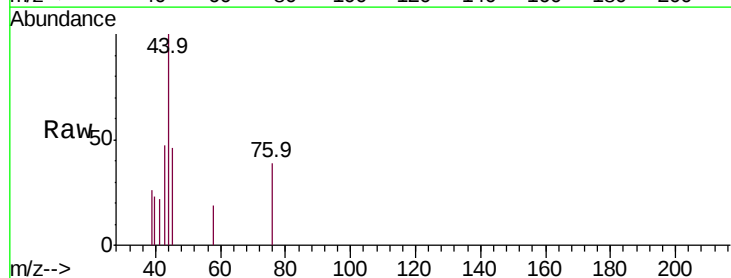
Acq: 14 Sep 2019 11:07

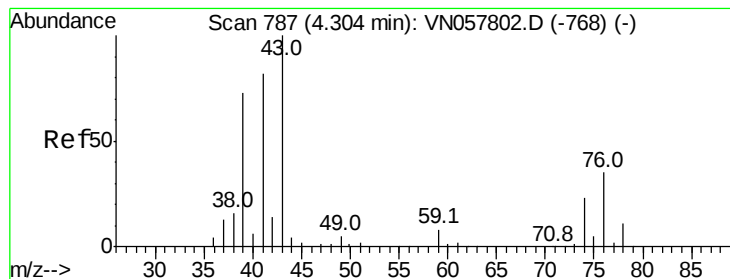
Tgt Ion: 76 Resp: 664

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#





#18

Methyl Acetate

Concen: 1.209 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

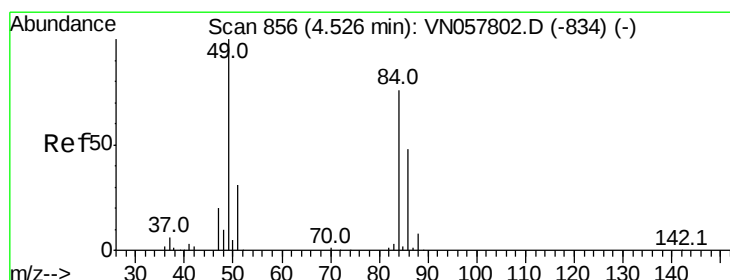
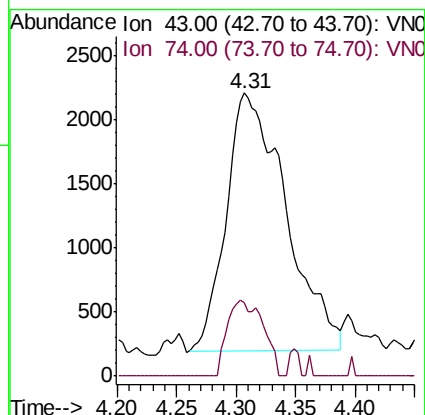
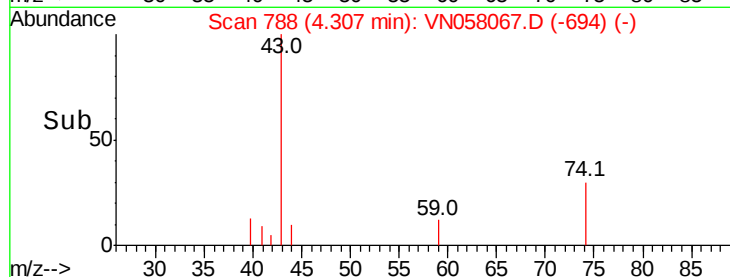
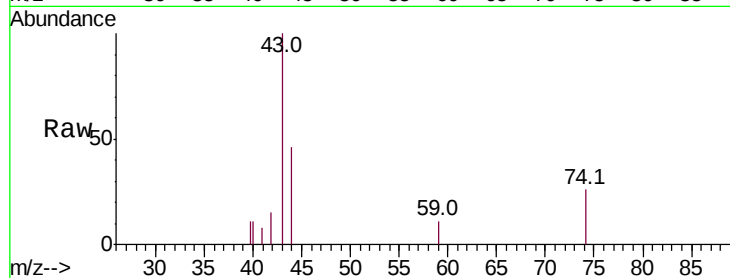
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 7016

Ion Ratio Lower Upper

43 100

74 17.6 17.9 26.9#



#20

Methylene Chloride

Concen: 1.083 ug/l

RT: 4.54 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Tgt Ion: 84 Resp: 9477

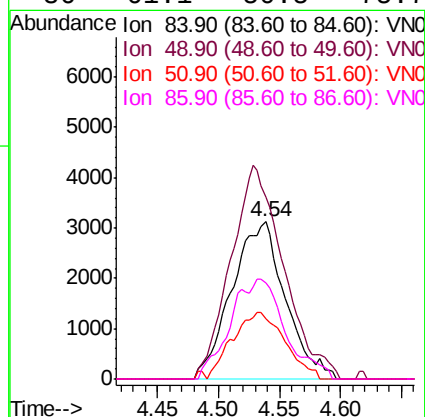
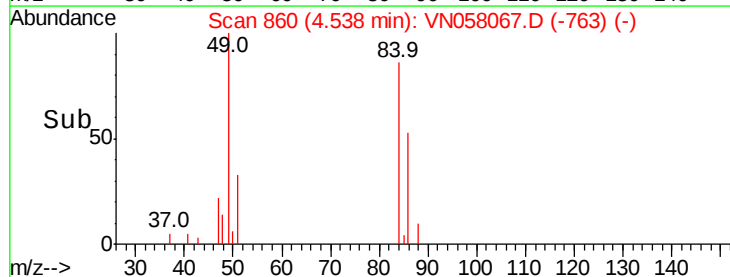
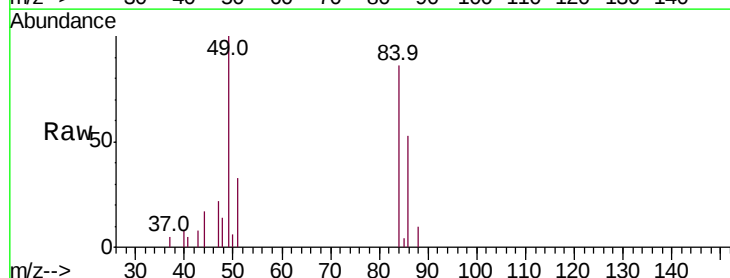
Ion Ratio Lower Upper

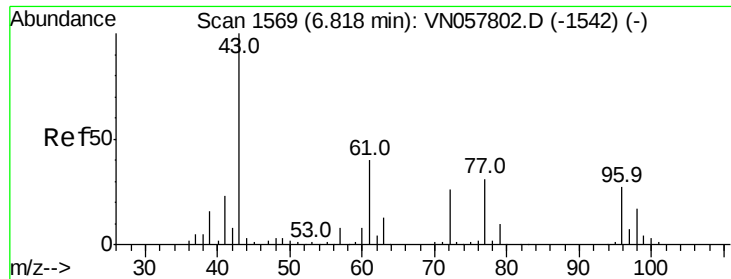
84 100

49 115.9 104.8 157.2

51 38.3 33.0 49.4

86 61.1 50.5 75.7

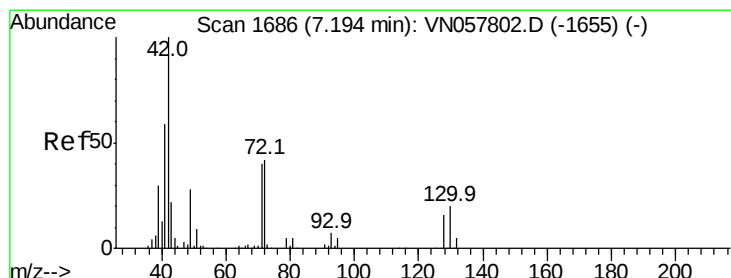
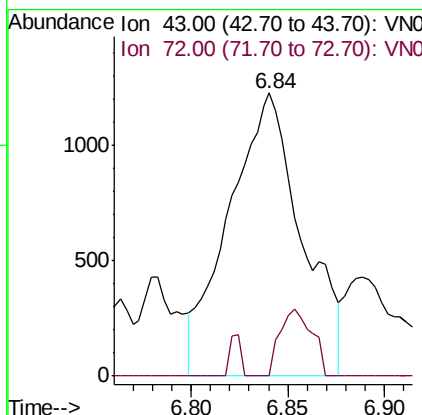
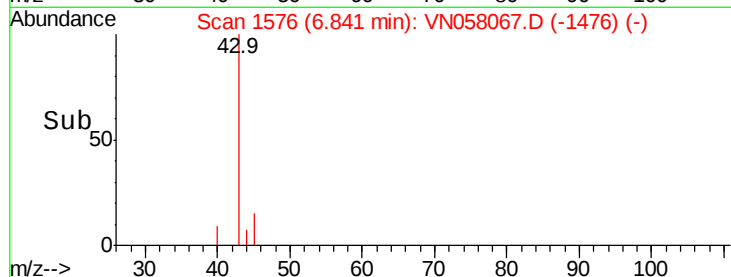
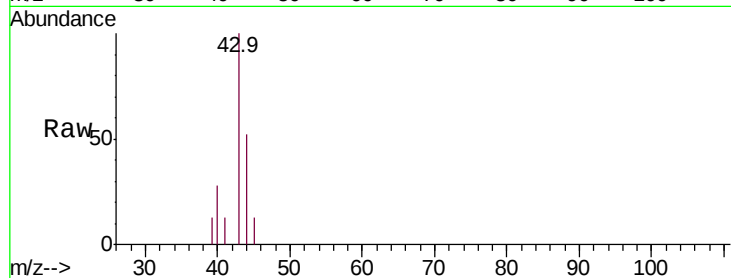




#25
2-Butanone
Concen: 1.021 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

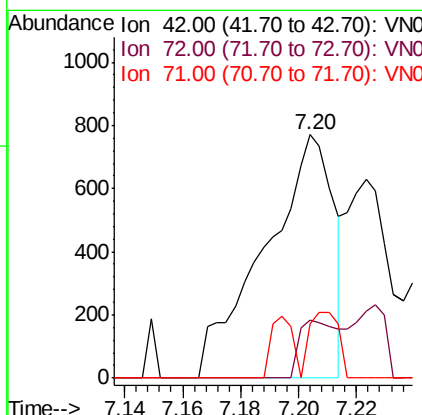
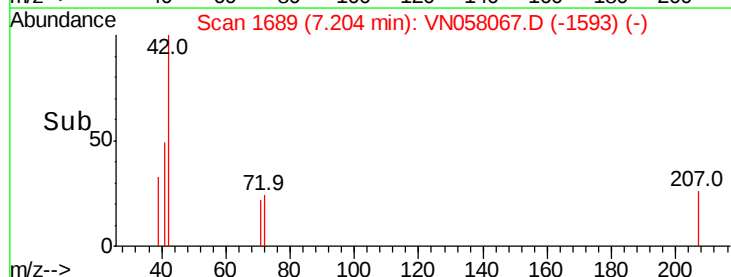
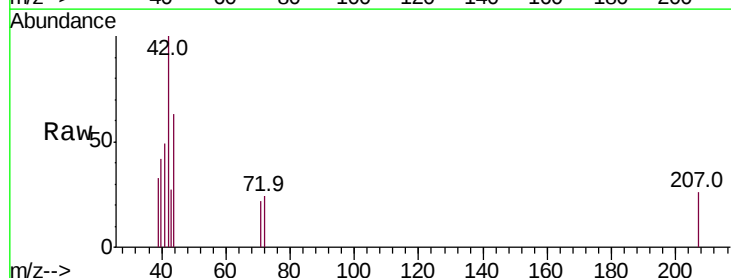
Instrument :
MSVOA_N
ClientSampled :

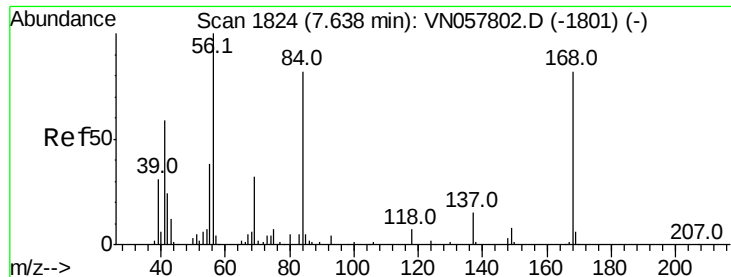
Tot Ion: 43 Resp: 3215
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.654 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Tgt Ion: 42 Resp: 1269
Ion Ratio Lower Upper
42 100
72 15.1 33.7 50.5#
71 11.6 31.9 47.9#

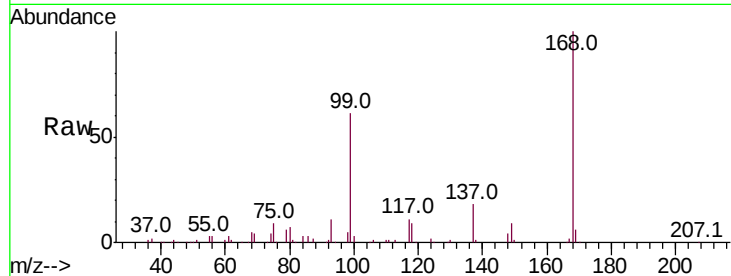




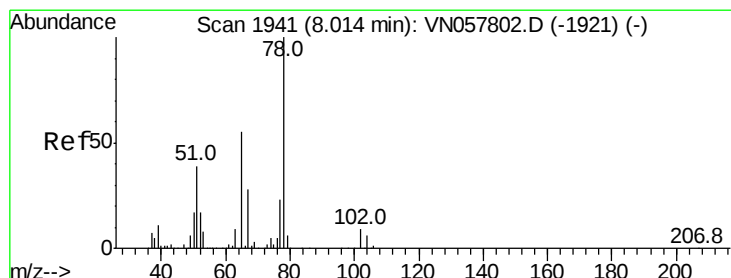
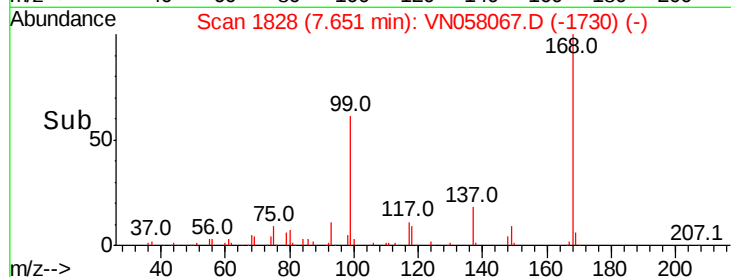
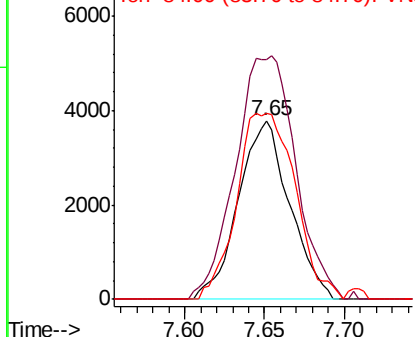
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 8319
Ion Ratio Lower Upper
56 100
69 133.7 25.9 38.9#
84 104.1 65.6 98.4#

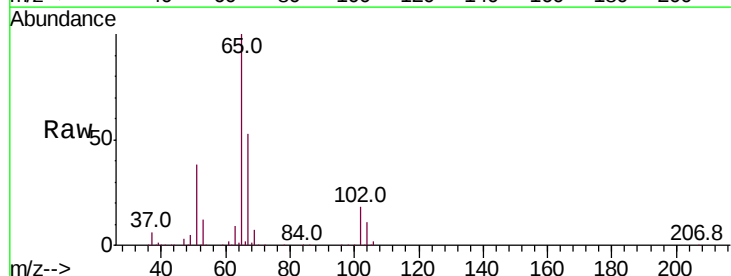


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

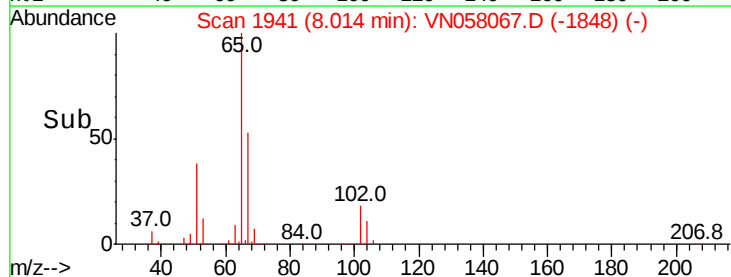
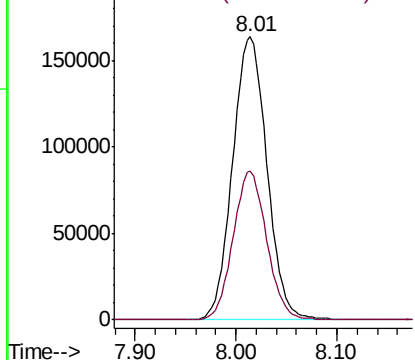


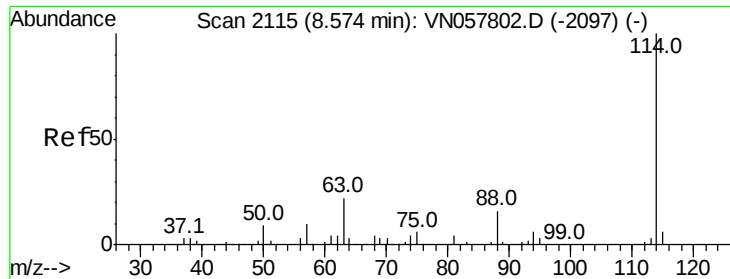
#33
1,2-Dichloroethane-d4
Concen: 58.353 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Tgt Ion: 65 Resp: 387385
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.0



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

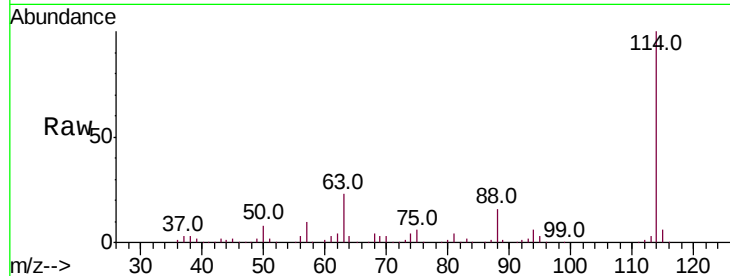




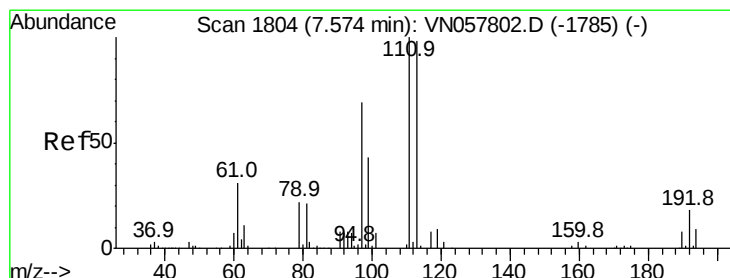
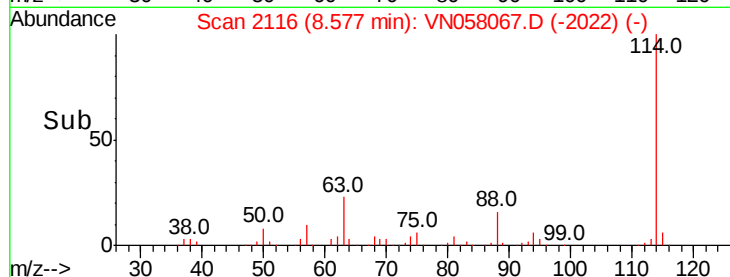
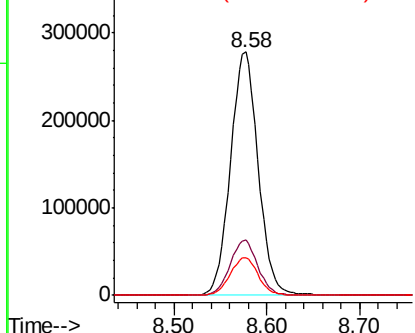
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.0
88	15.6	0.0	31.4

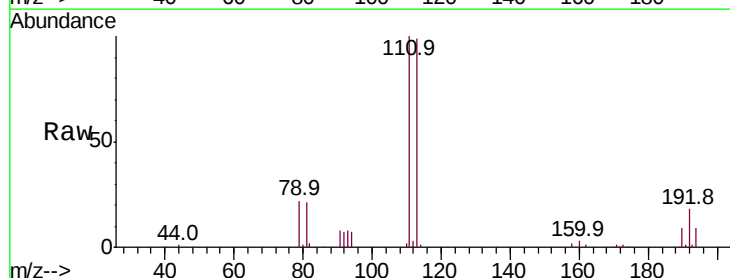


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

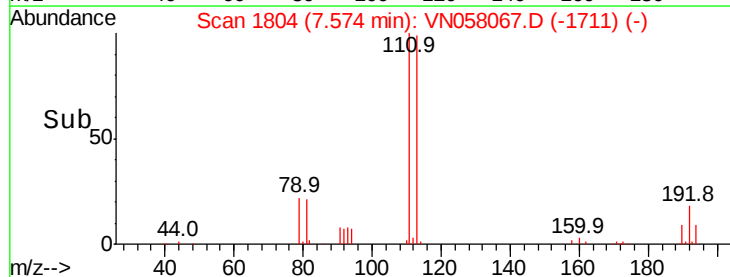
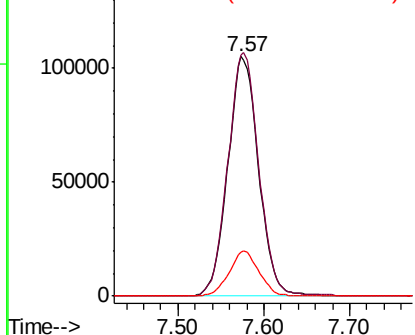


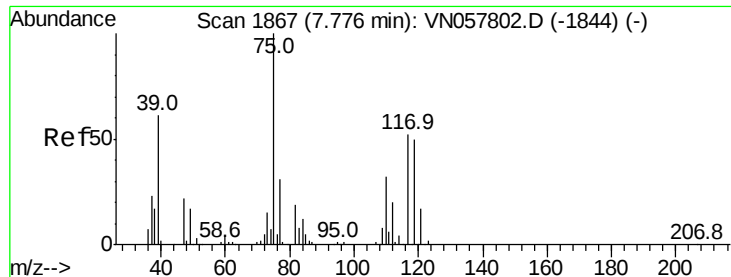
#35
 Dibromofluoromethane
 Concen: 48.923 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	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: 4.320 ug/l

RT: 7.65 min Scan# 1827

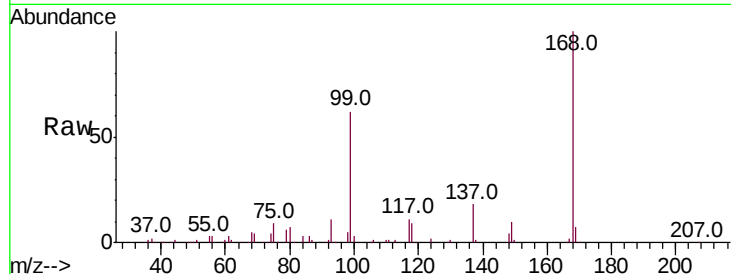
Delta R.T. -0.13 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.3	48.9#
77	0.0	25.0	37.4#

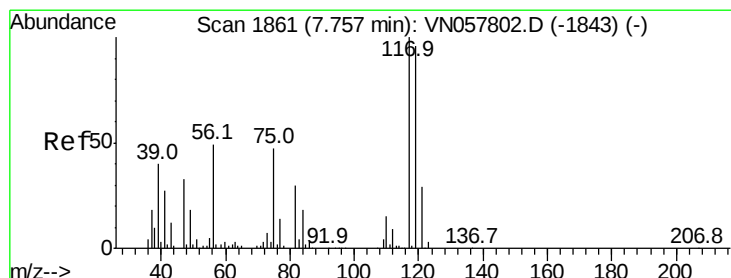
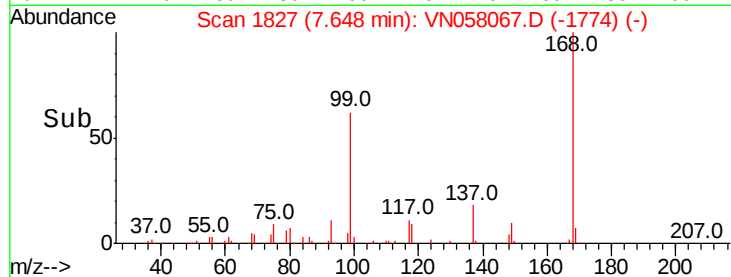
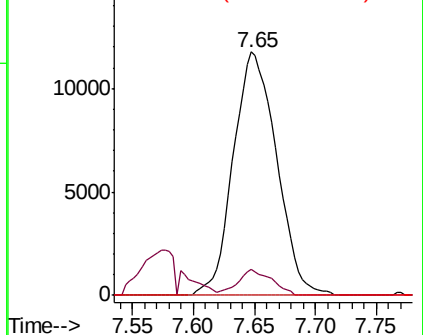


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.509 ug/l

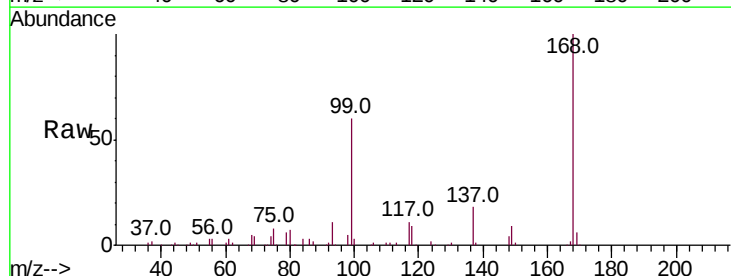
RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

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

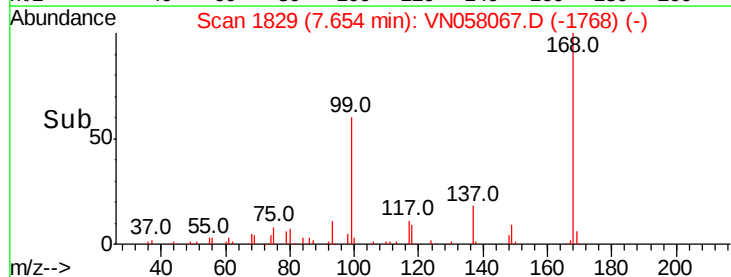
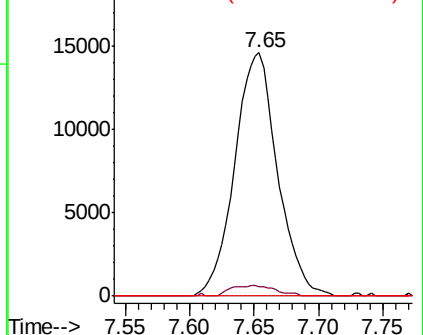


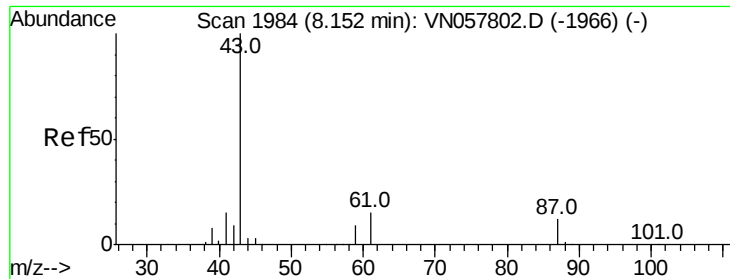
Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 13.004 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :

MSVOA_N

ClientSampleId :

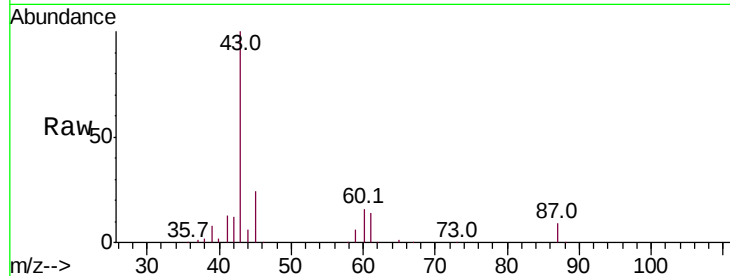
Tot Ion: 43 Resp: 151419

Ion Ratio Lower Upper

43 100

61 13.6 20.1 30.1#

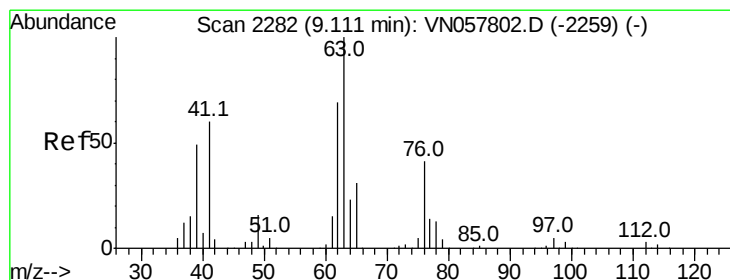
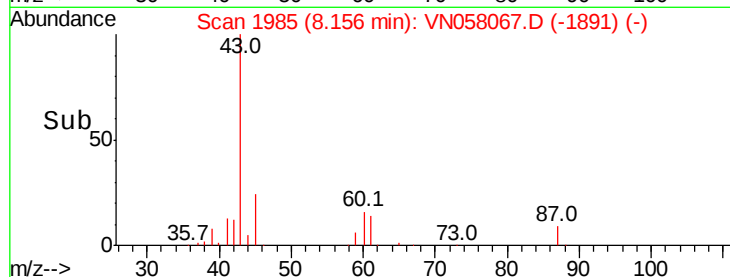
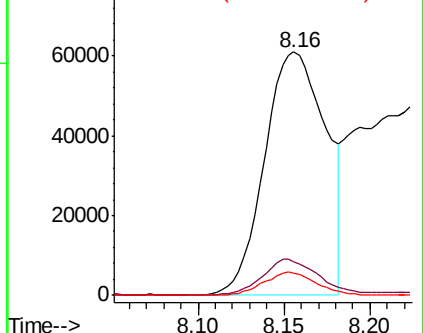
87 8.2 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#45

1,2-Dichloropropane

Concen: 0.343 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058067.D

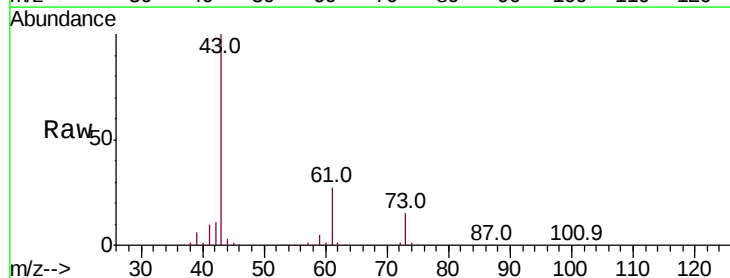
Acq: 14 Sep 2019 11:07

Tgt Ion: 63 Resp: 2013

Ion Ratio Lower Upper

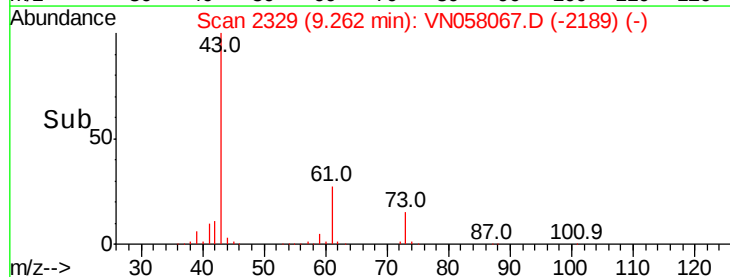
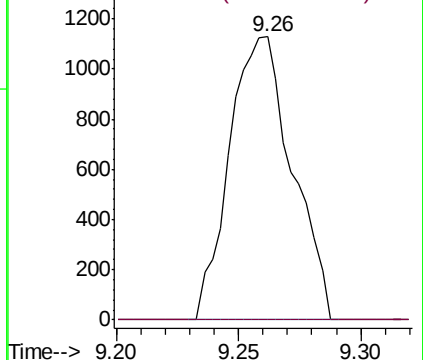
63 100

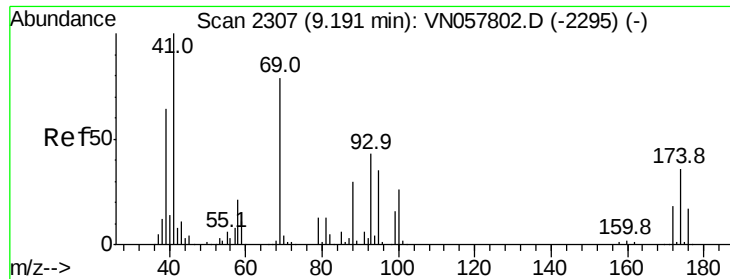
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

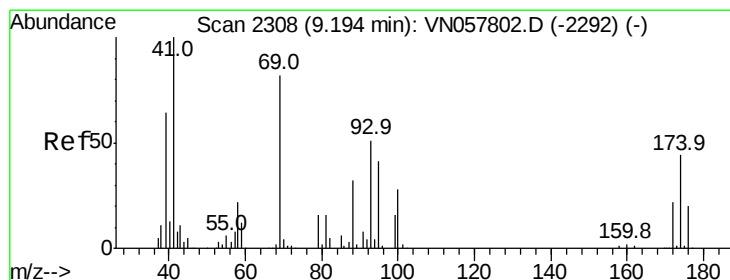
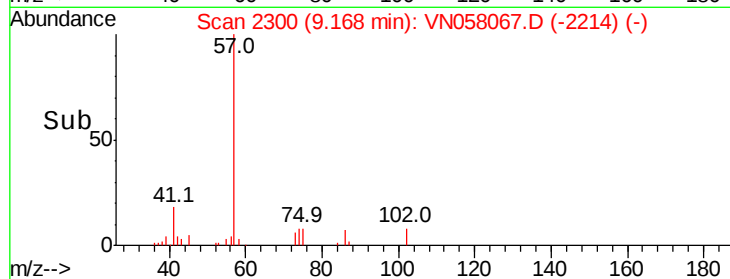
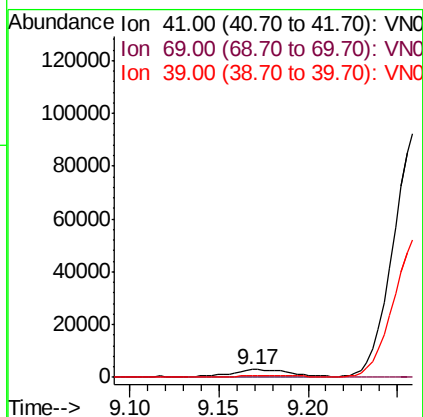
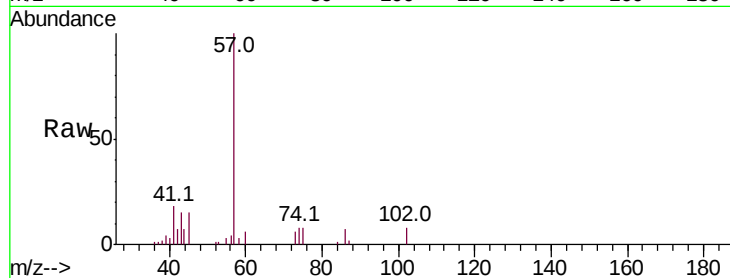




#48
Methyl methacrylate
Concen: 0.998 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

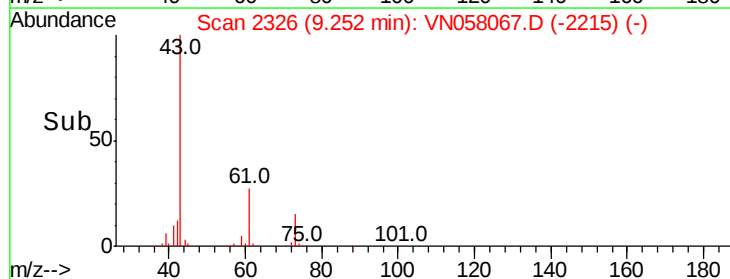
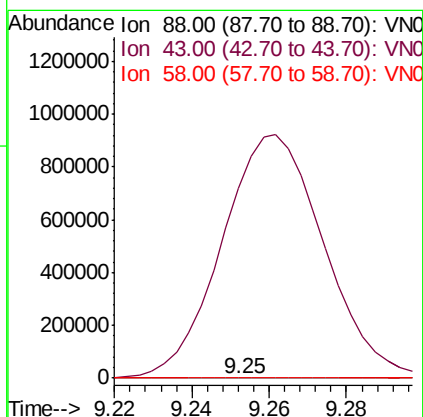
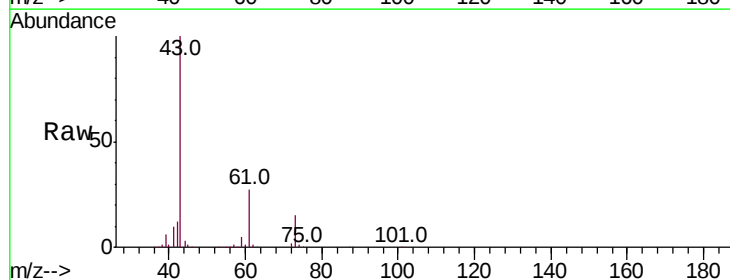
Instrument :
MSVOA_N
ClientSampled :

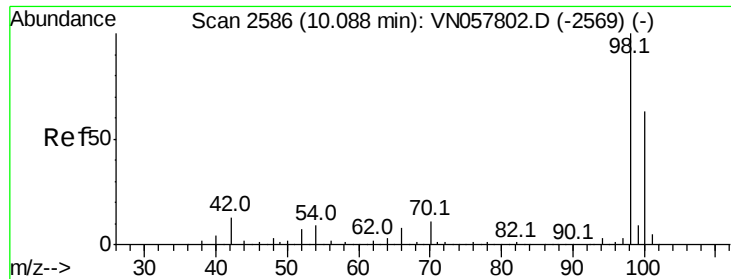
Tot Ion: 41 Resp: 5892
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 3.254 ug/l
RT: 9.25 min Scan# 2326
Delta R.T. 0.06 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Tgt Ion: 88 Resp: 325
Ion Ratio Lower Upper
88 100
43 525094.5 28.5 42.7#
58 2330.2 55.8 83.6#





#50

Toluene-d8

Concen: 50.944 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :

MSVOA_N

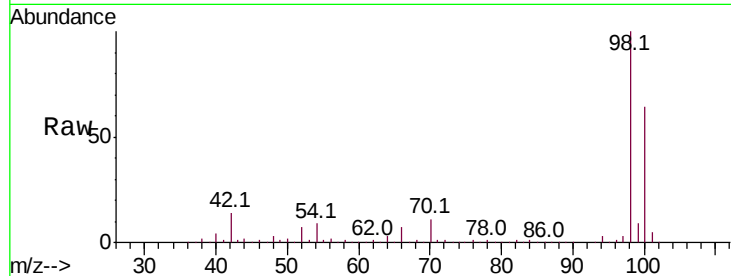
ClientSampleId :

Tot Ion: 98 Resp: 1054889

Ion Ratio Lower Upper

98 100

100 64.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN057802.D (-2569) (-)

10.09

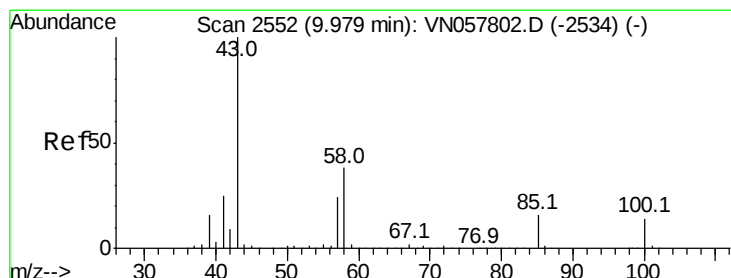
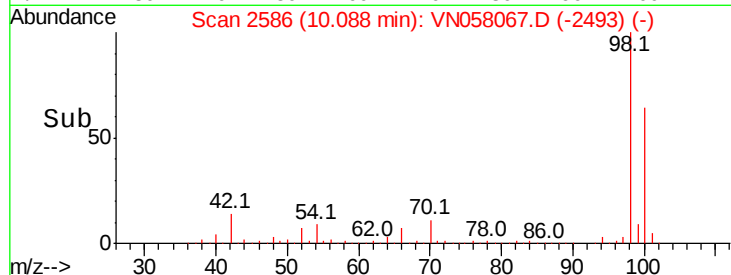
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.080 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058067.D

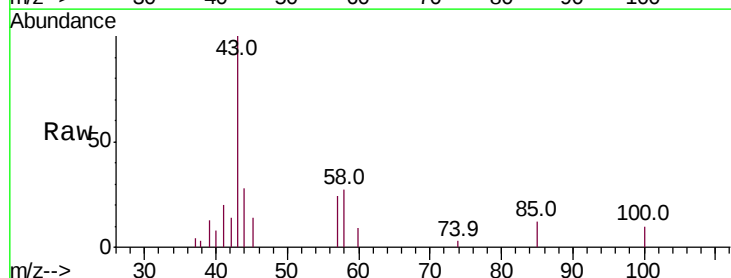
Acq: 14 Sep 2019 11:07

Tgt Ion: 43 Resp: 7444

Ion Ratio Lower Upper

43 100

58 36.9 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

20000

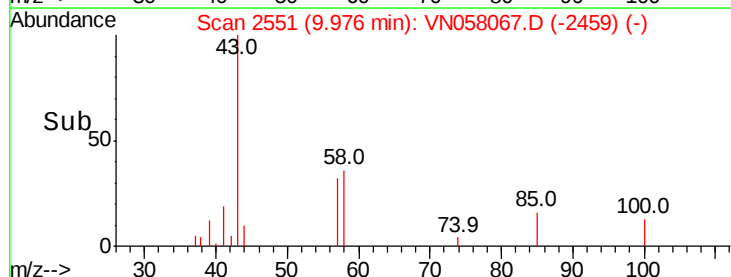
15000

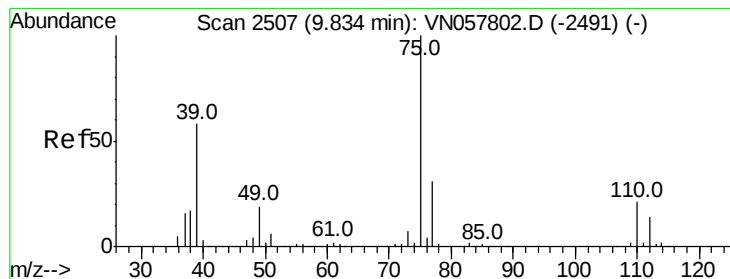
10000

5000

0

Time-->



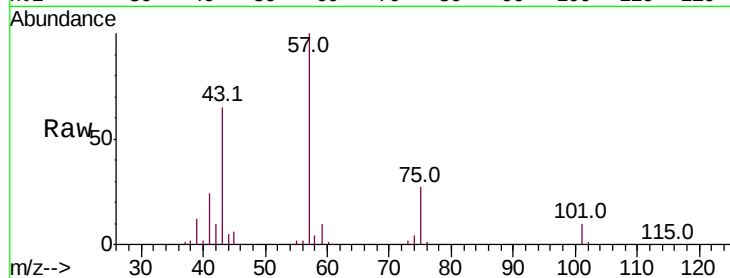


#54

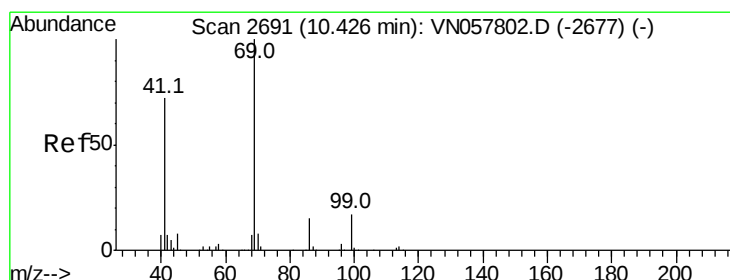
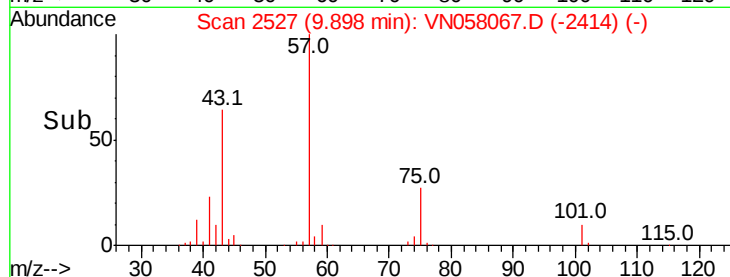
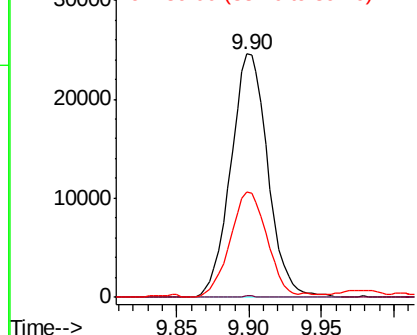
cis-1,3-Dichloropropene
 Concen: 5.283 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 43510
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.8 37.2#
 39 43.1 46.2 69.4#



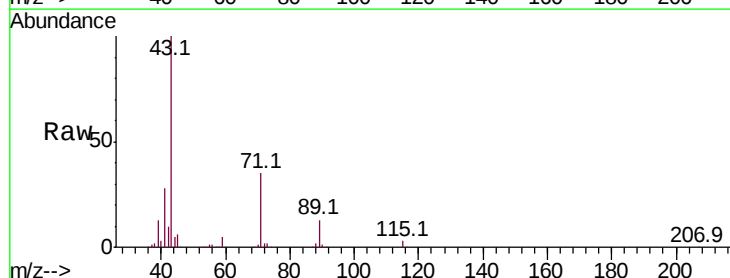
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



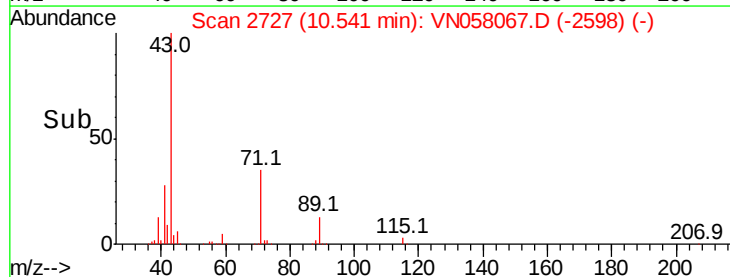
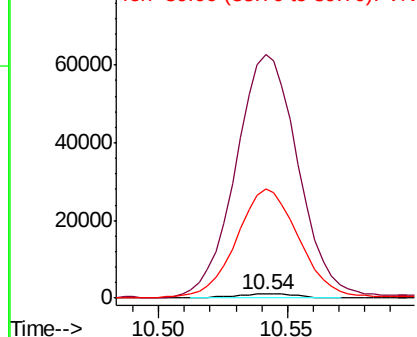
#56

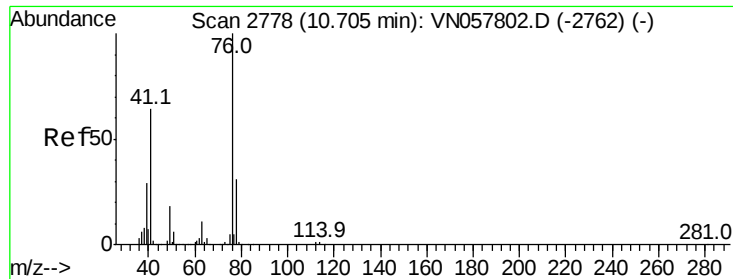
Ethyl methacrylate
 Concen: 0.214 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

Tgt Ion: 69 Resp: 1736
 Ion Ratio Lower Upper
 69 100
 41 6084.6 56.7 85.1#
 39 2778.1 36.3 54.5#



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

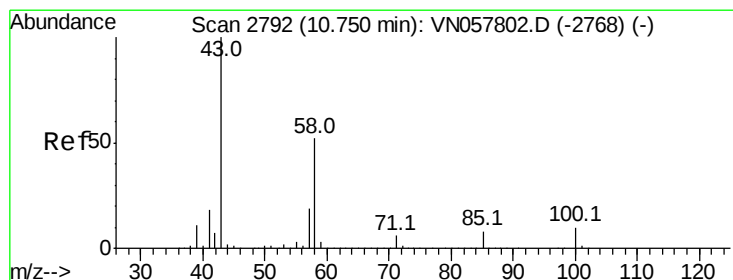
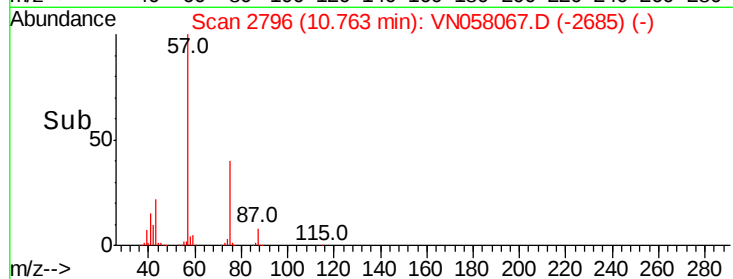
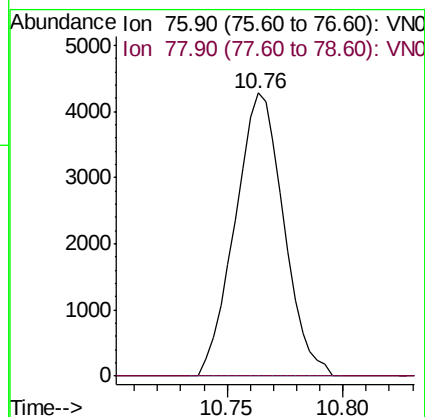
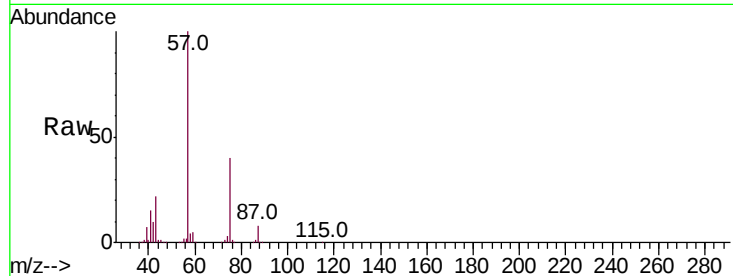




#57
 1,3-Dichloropropane
 Concen: 0.672 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

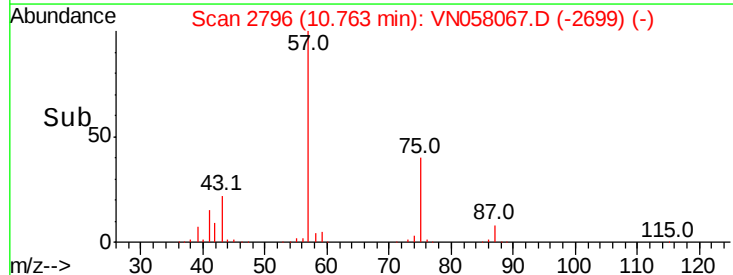
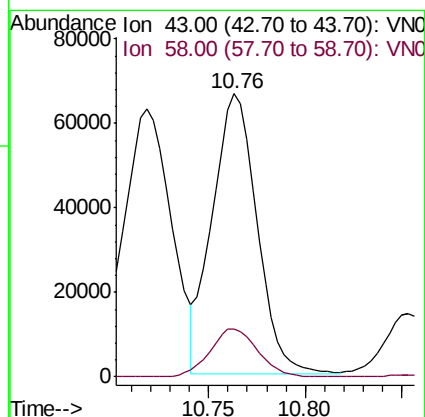
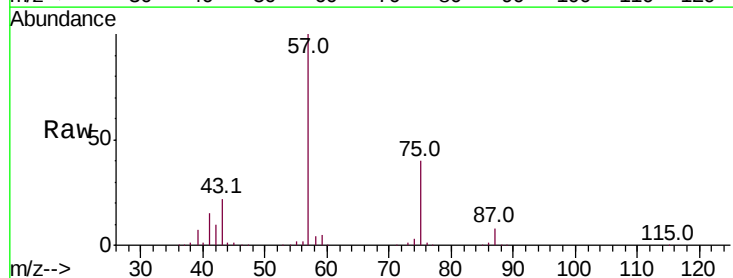
Instrument :
 MSVOA_N
 ClientSampleId :

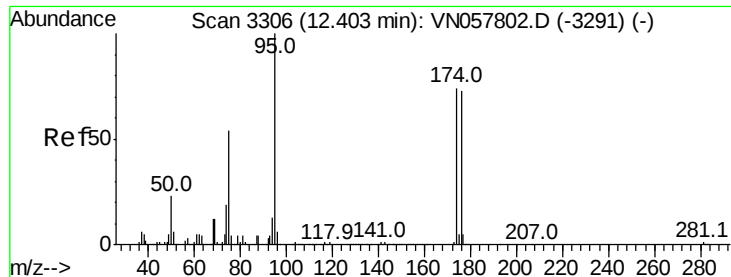
Tot Ion: 76 Resp: 6232
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 20.726 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058067.D
 Acq: 14 Sep 2019 11:07

Tgt Ion: 43 Resp: 107041
 Ion Ratio Lower Upper
 43 100
 58 18.4 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.884 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :

MSVOA_N

ClientSampled :

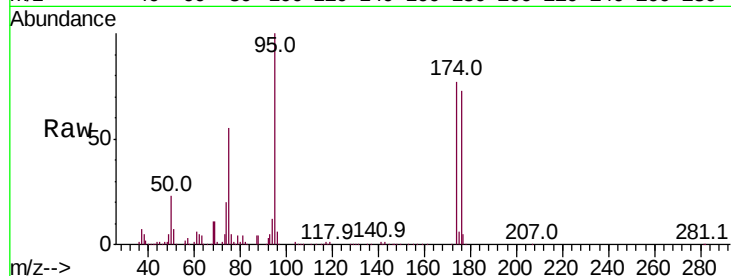
Tot Ion: 95 Resp: 346294

Ion Ratio Lower Upper

95 100

174 76.1 0.0 150.2

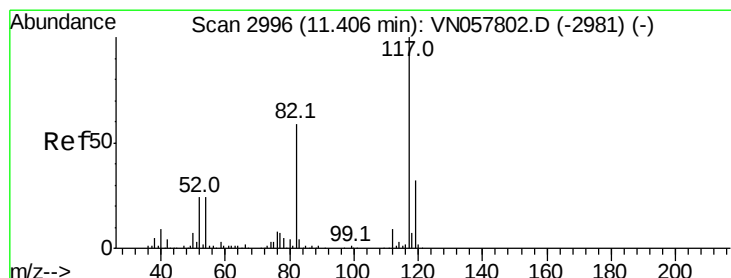
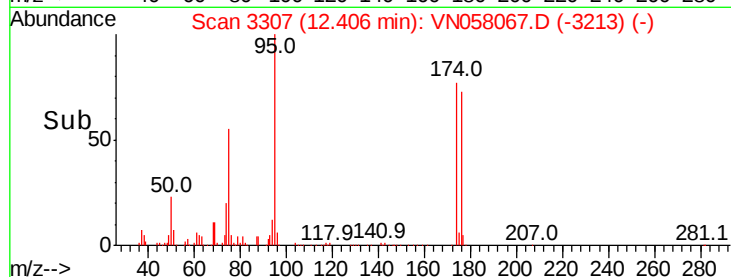
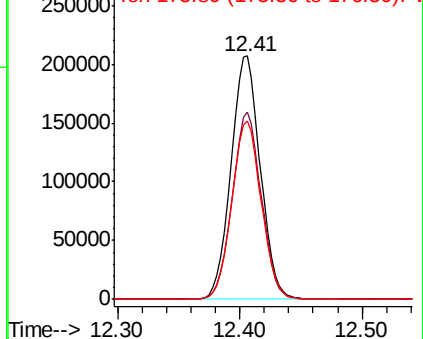
176 73.4 0.0 146.0



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: VN058067.D

Acq: 14 Sep 2019 11:07

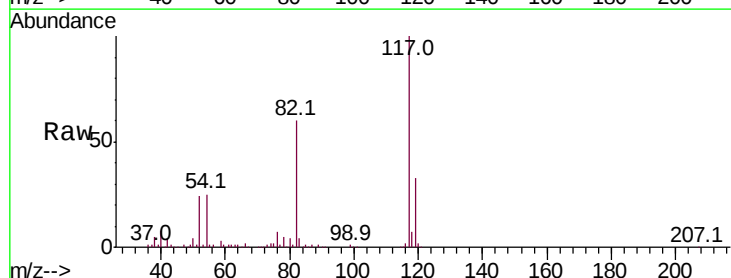
Tgt Ion: 117 Resp: 527729

Ion Ratio Lower Upper

117 100

82 59.9 47.2 70.8

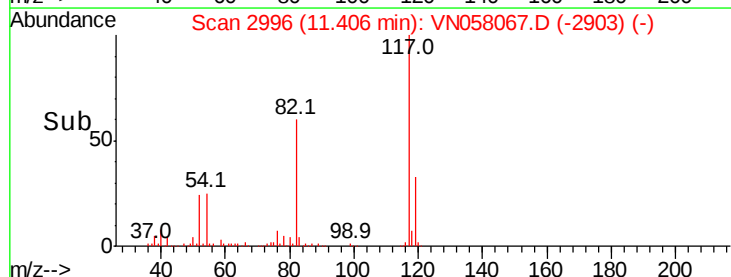
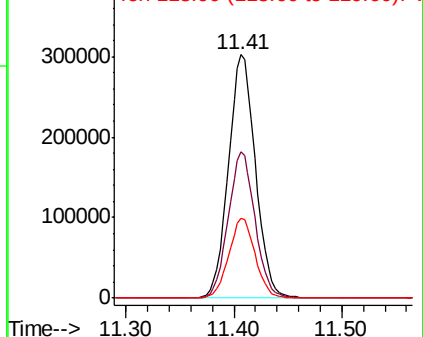
119 32.8 25.3 37.9

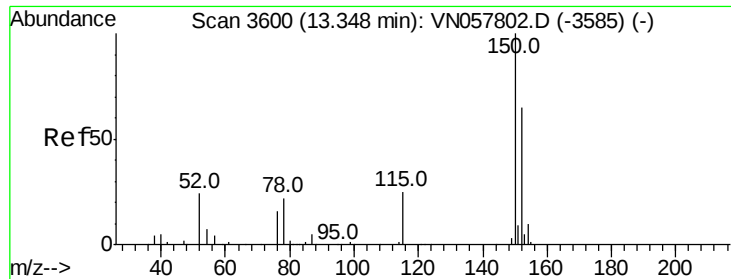


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :

MSVOA_N

ClientSampleId :

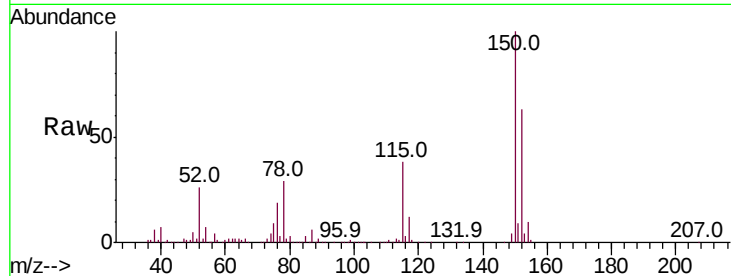
Tot Ion:152 Resp: 280442

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

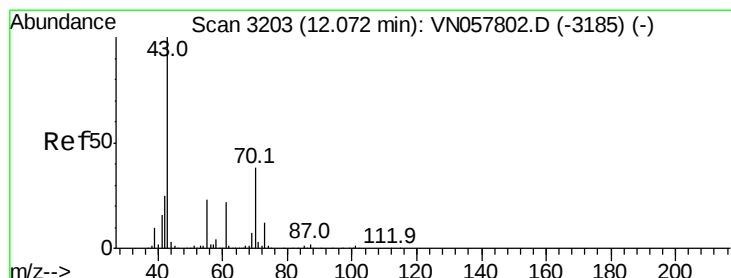
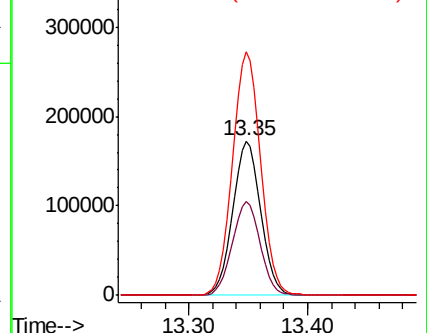
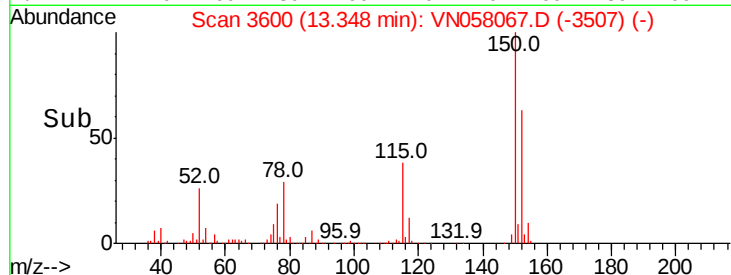
150 159.0 0.0 352.4



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: 0.500 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Tgt Ion: 43 Resp: 4734

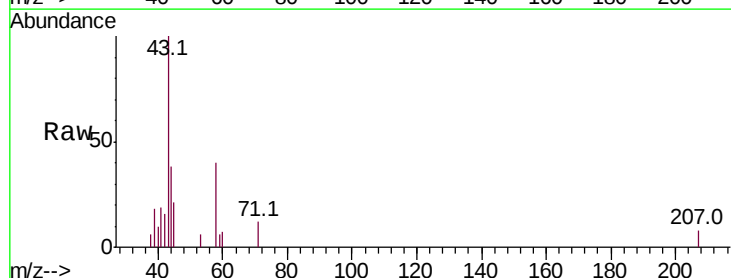
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.4 18.6 27.8#

61 0.0 17.4 26.2#

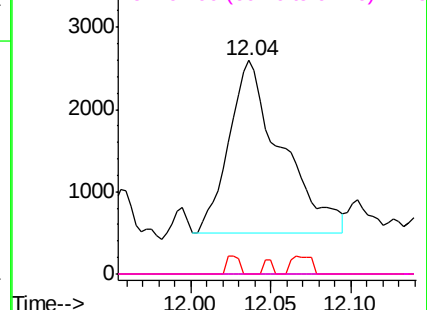
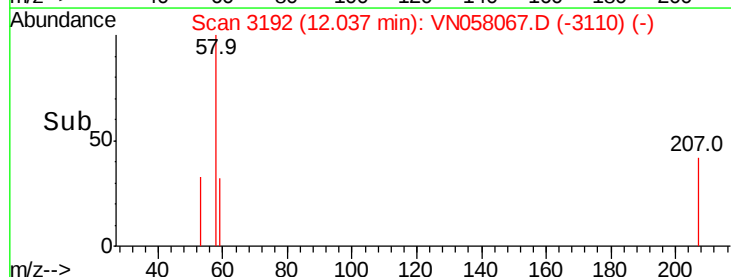


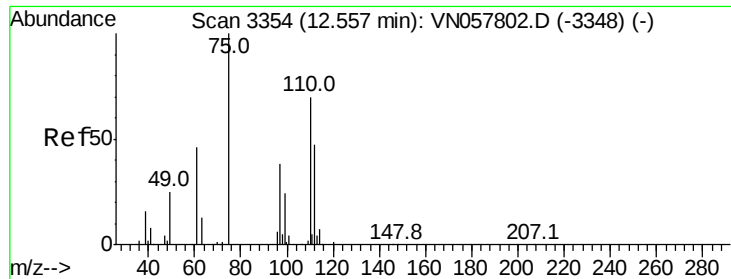
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.034 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

Instrument :

MSVOA_N

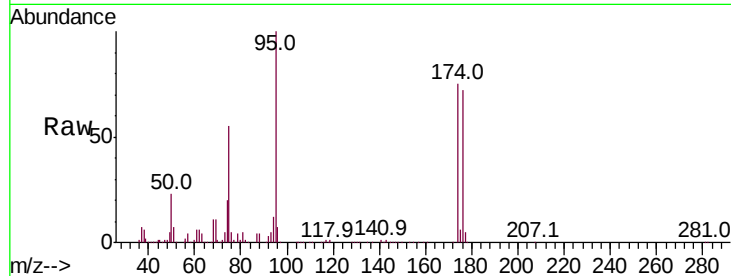
ClientSampled :

Tot Ion: 75 Resp: 190540

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

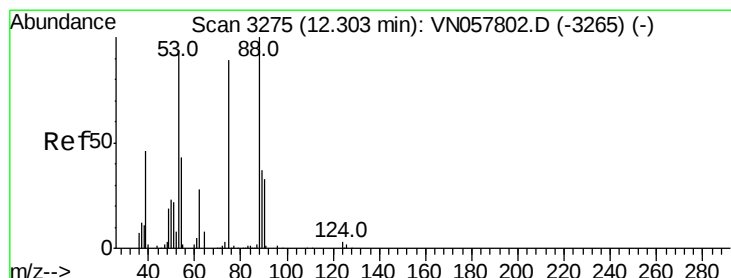
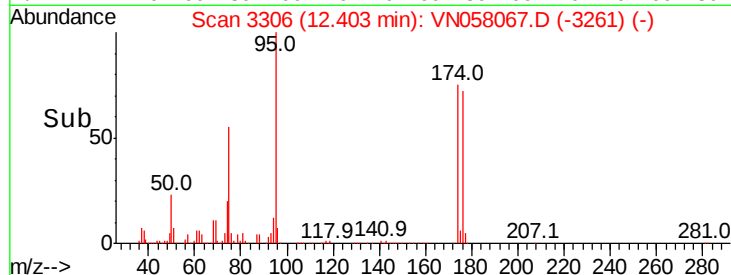
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 105.691 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058067.D

Acq: 14 Sep 2019 11:07

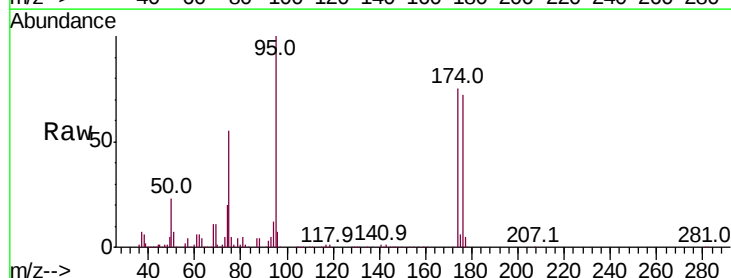
Tgt Ion: 75 Resp: 190540

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

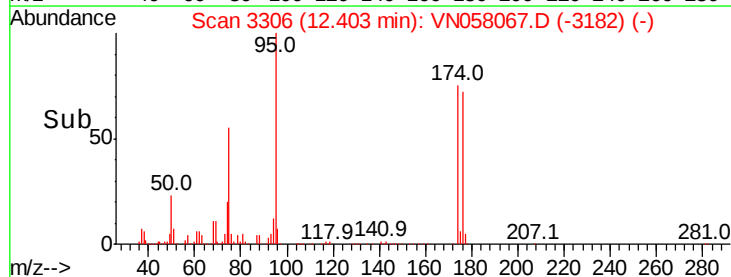
150000

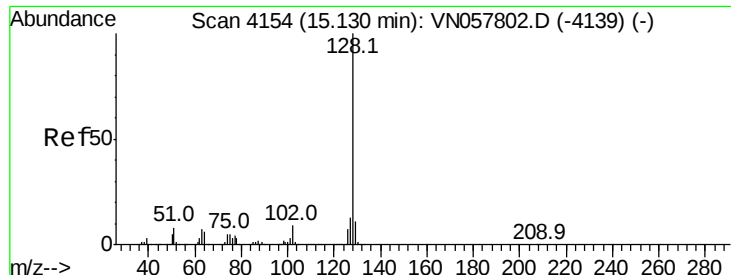
100000

50000

0

Time-->

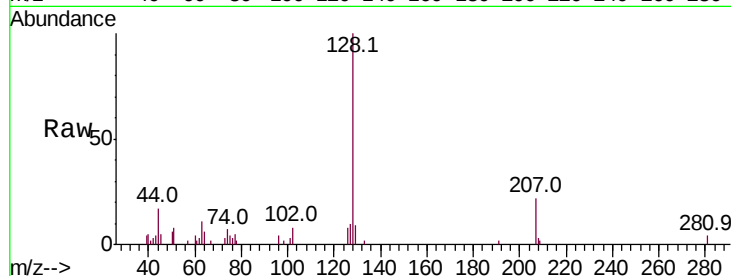




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058067.D
Acq: 14 Sep 2019 11:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.3	15.5
129	9.7	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

