

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057858.D
 Acq On : 10 Sep 2019 13:29
 Operator : JC/SP
 Sample : K4603-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 64 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 13:55:55 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	273108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	470875	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	427328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	217489	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	298523	53.97	ug/l	0.00
Spiked Amount			Recovery	=	107.94%	
35) Dibromofluoromethane	7.58	113	203448	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	10.09	98	818504	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
62) 4-Bromofluorobenzene	12.40	95	266604	41.46	ug/l	0.00
Spiked Amount			Recovery	=	82.92%	

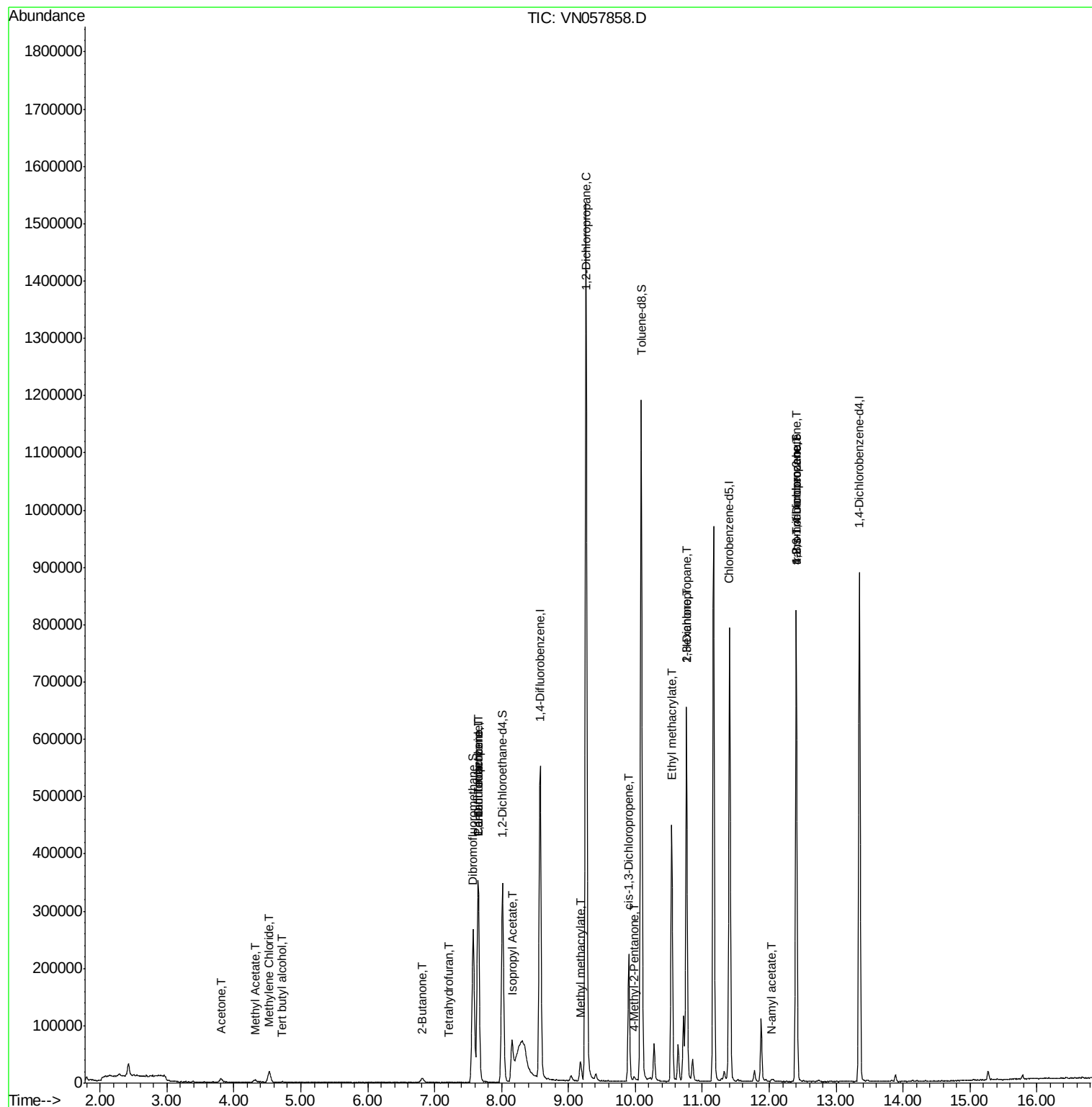
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	165	Below Cal		85
11) Tert butyl alcohol	4.73	59	424	0.633	ug/l #	72
16) Acetone	3.80	43	9679	5.338	ug/l	91
18) Methyl Acetate	4.32	43	9100	1.882	ug/l #	77
20) Methylene Chloride	4.53	84	12801	2.540	ug/l	90
25) 2-Butanone	6.81	43	651	0.248	ug/l #	49
29) Tetrahydrofuran	7.20	42	556	0.344	ug/l #	34
31) Cyclohexane	7.65	56	7202	Below Cal	#	20
36) 1,1-Dichloropropene	7.65	75	24090	4.411	ug/l #	46
38) Carbon Tetrachloride	7.65	117	29008	5.818	ug/l #	17
43) Isopropyl Acetate	8.16	43	101501	10.698	ug/l #	86
45) 1,2-Dichloropropane	9.26	63	1671	0.349	ug/l #	44
48) Methyl methacrylate	9.17	41	6052	1.257	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	4459	0.794	ug/l #	84
54) cis-1,3-Dichloropropene	9.90	75	37201	5.543	ug/l #	68
56) Ethyl methacrylate	10.54	69	1746	0.264	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	6447	0.853	ug/l #	43
59) 2-Hexanone	10.76	43	96969	23.041	ug/l #	54
74) N-amyl acetate	12.03	43	3852	0.524	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	149879	30.463	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	149879	107.201	ug/l #	6
95) Naphthalene	15.14	128	238	Below Cal	#	69

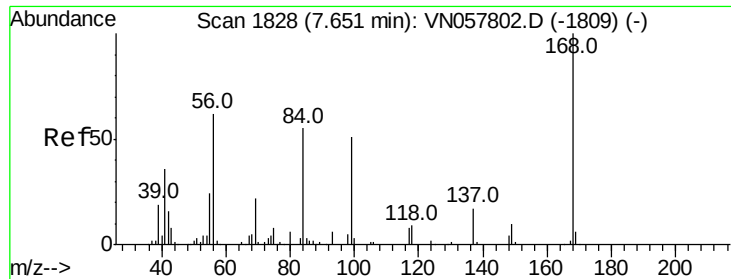
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057858.D

Acq: 10 Sep 2019 13:29

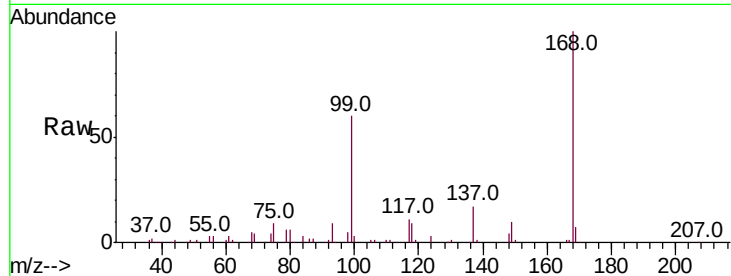
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 273108

Ion Ratio Lower Upper

168 100

99 60.3 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

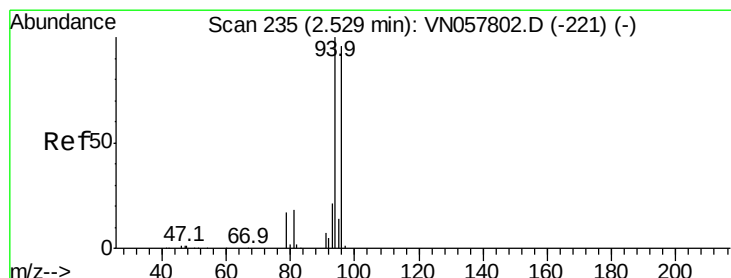
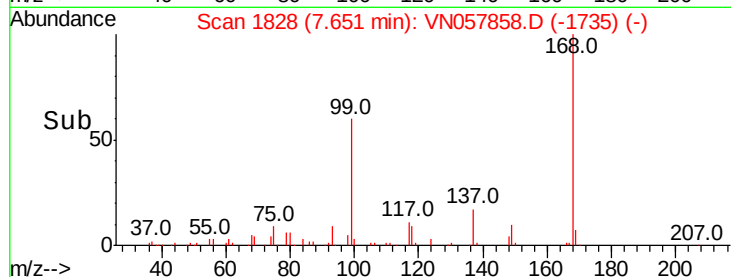
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057858.D

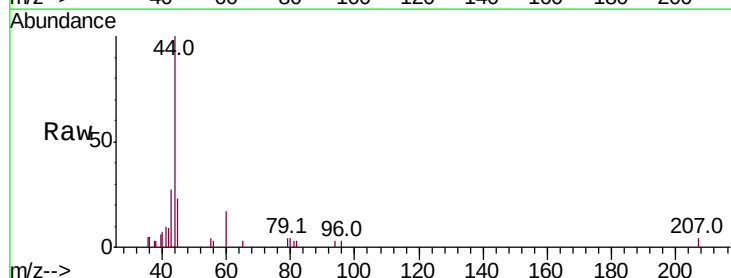
Acq: 10 Sep 2019 13:29

Tgt Ion: 94 Resp: 165

Ion Ratio Lower Upper

94 100

96 110.8 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

250

200

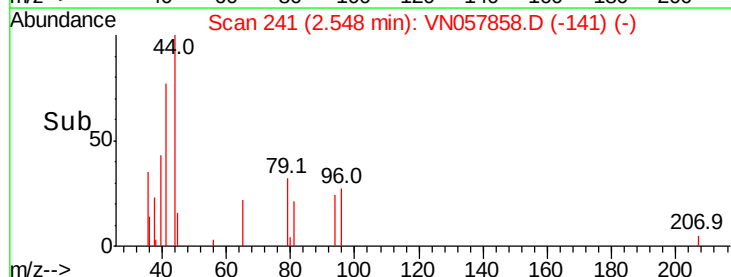
150

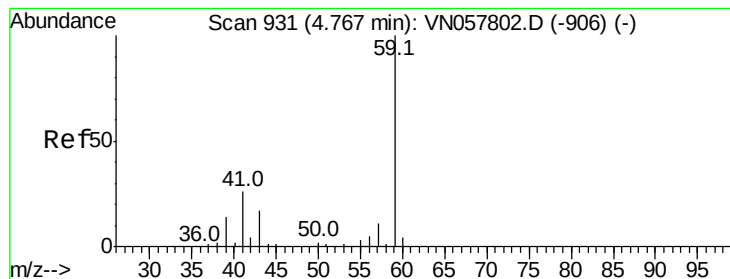
100

50

0

Time-->



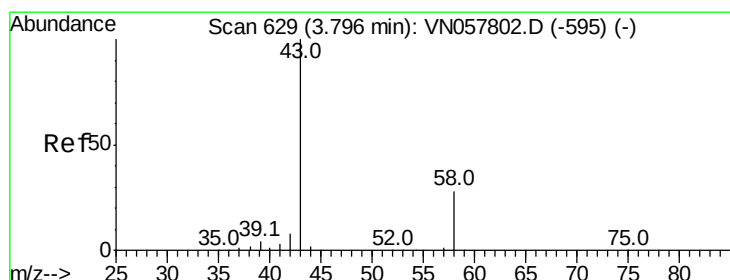
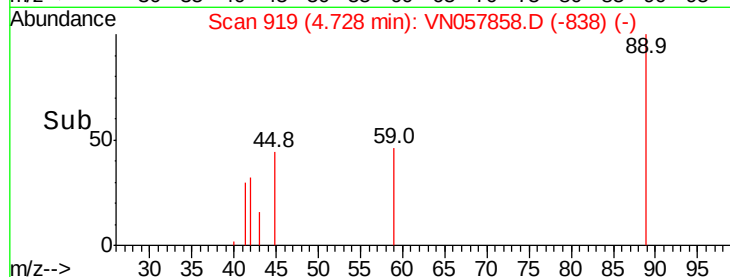
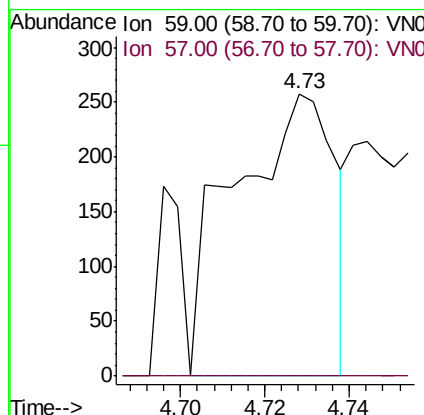
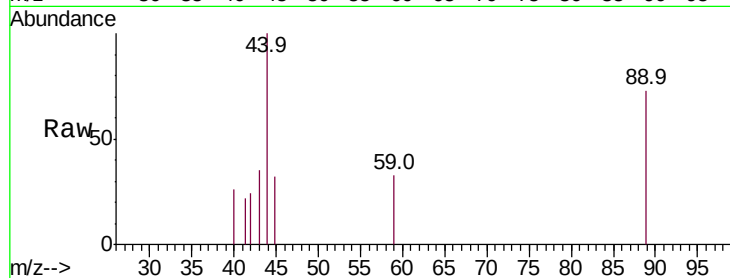


#11

Tert butyl alcohol
Concen: 0.633 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.04 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

Instrument :
MSVOA_N
ClientSampled :

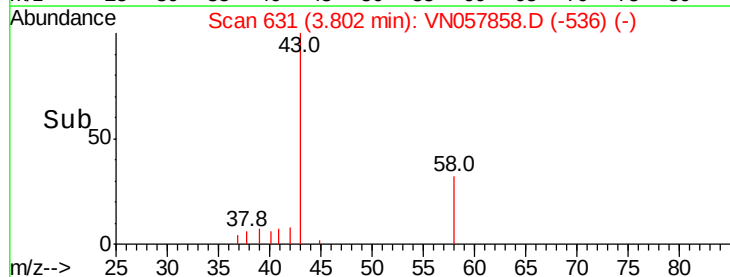
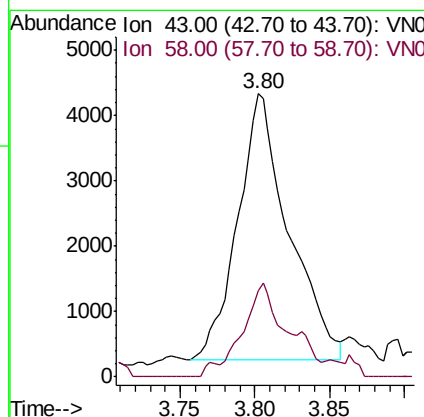
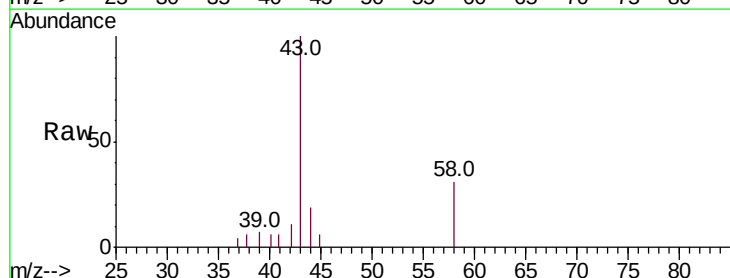
Tot Ion: 59 Resp: 424
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

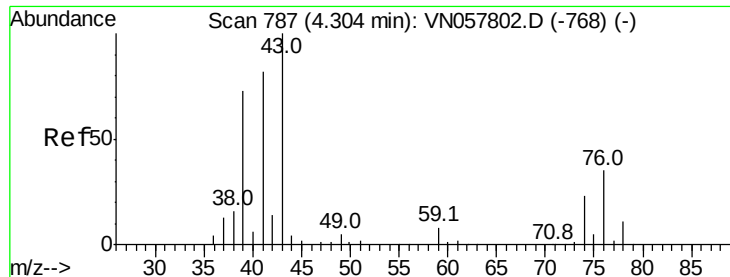


#16

Acetone
Concen: 5.338 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

Tgt Ion: 43 Resp: 9679
Ion Ratio Lower Upper
43 100
58 32.5 22.2 33.2





#18

Methyl Acetate

Concen: 1.882 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.02 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

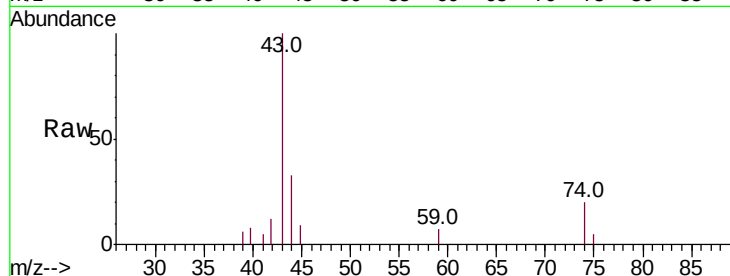
ClientSampled :

Tot Ion: 43 Resp: 9100

Ion Ratio Lower Upper

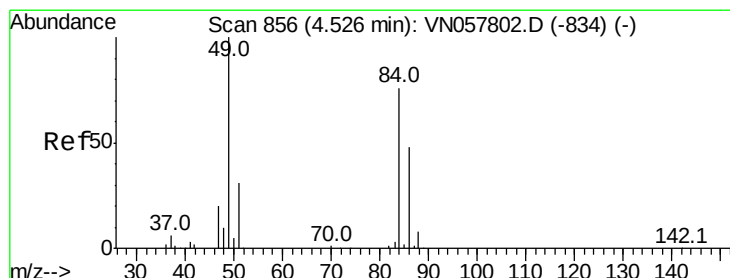
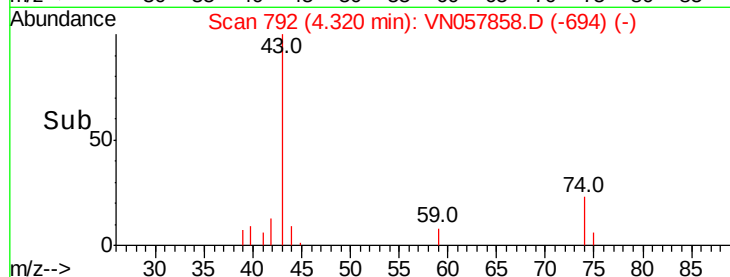
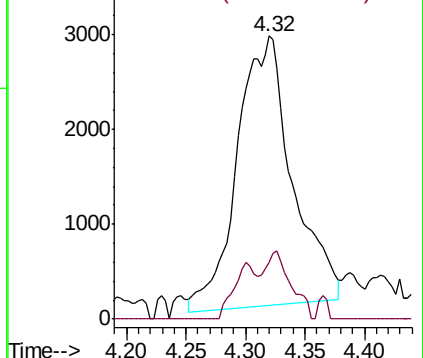
43 100

74 11.3 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 2.540 ug/l

RT: 4.53 min Scan# 858

Delta R.T. 0.01 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Tgt Ion: 84 Resp: 12801

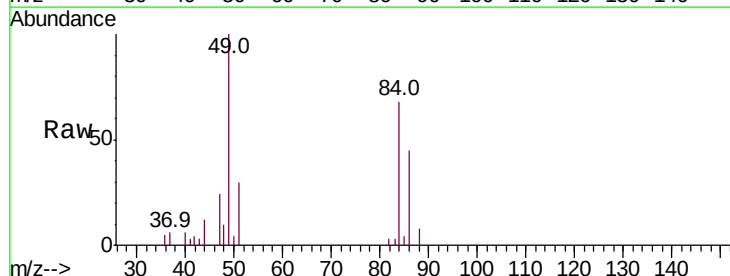
Ion Ratio Lower Upper

84 100

49 147.6 104.8 157.2

51 44.5 33.0 49.4

86 66.8 50.5 75.7

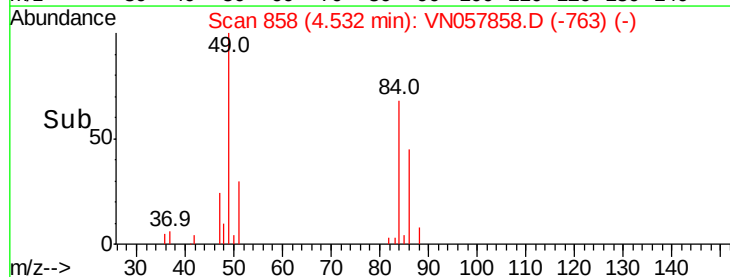
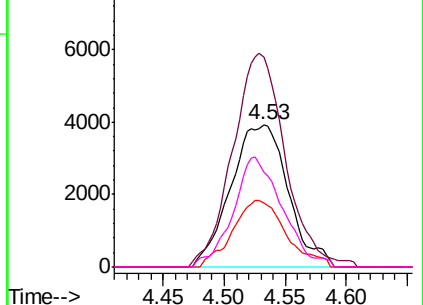


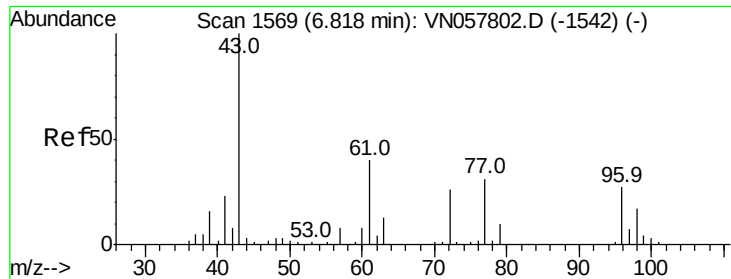
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

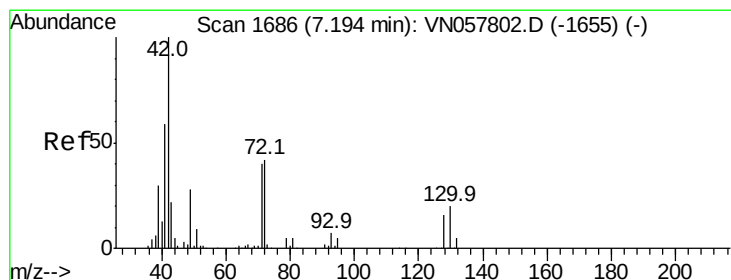
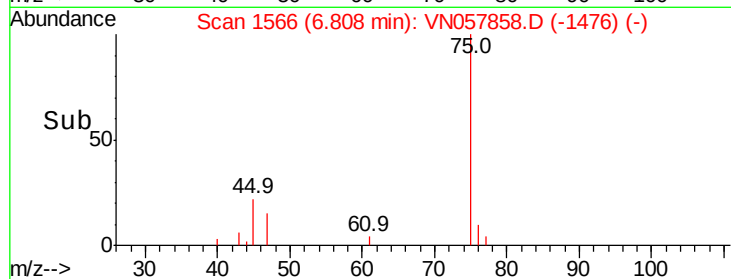
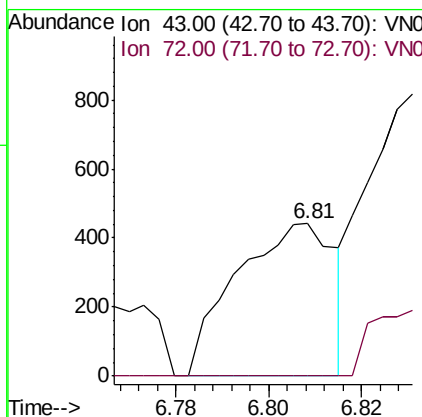
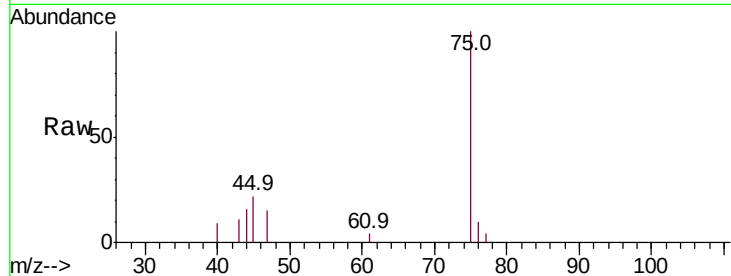




#25
2-Butanone
Concen: 0.248 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

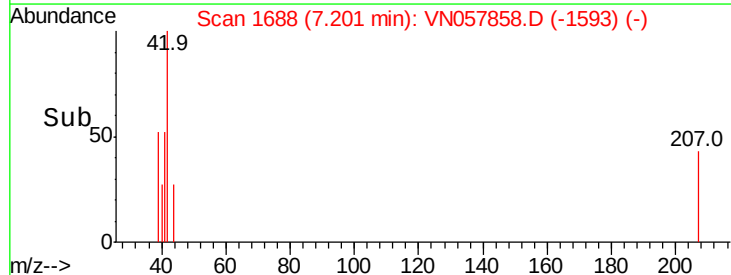
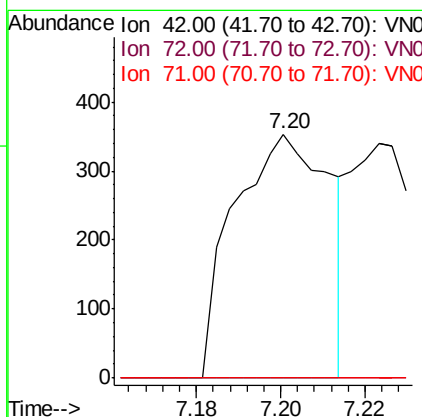
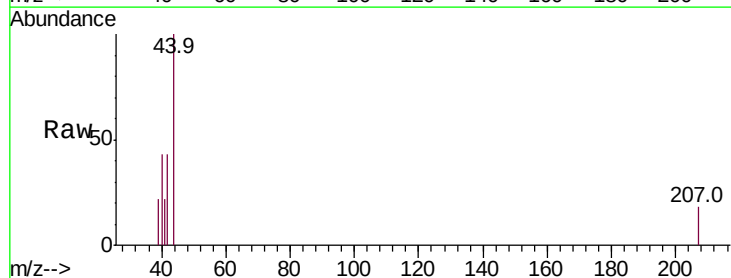
Instrument :
MSVOA_N
ClientSampled :

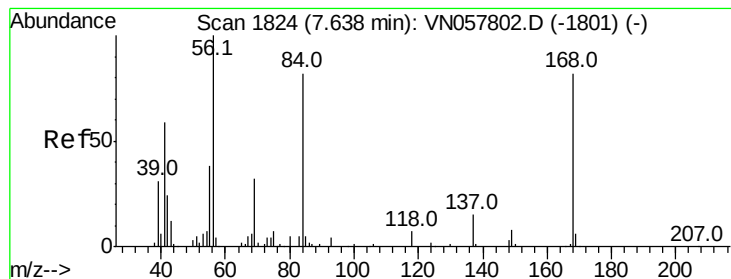
Tot Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.344 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

Tgt Ion: 42 Resp: 556
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

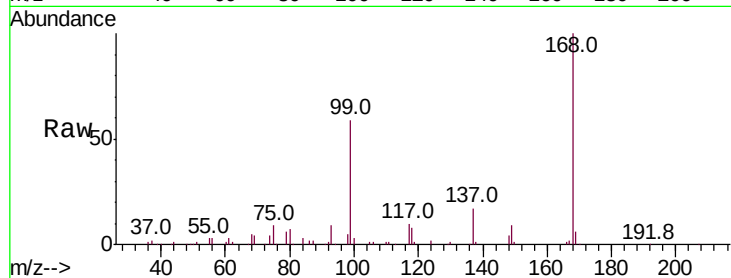
Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

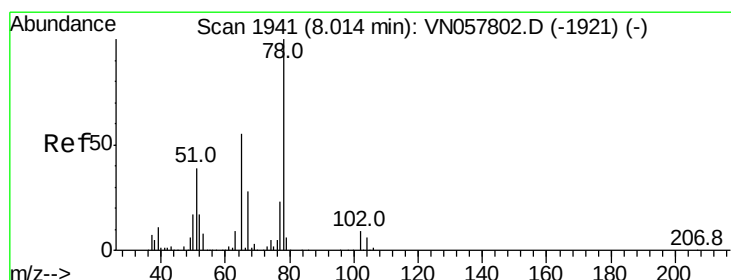
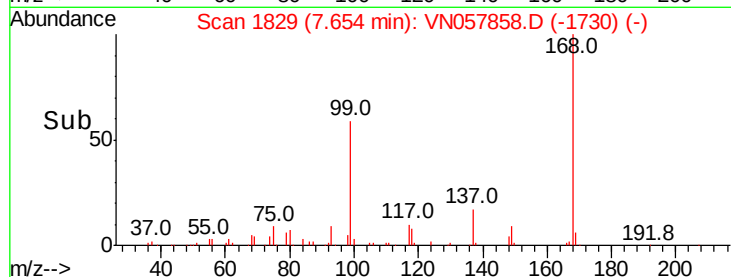
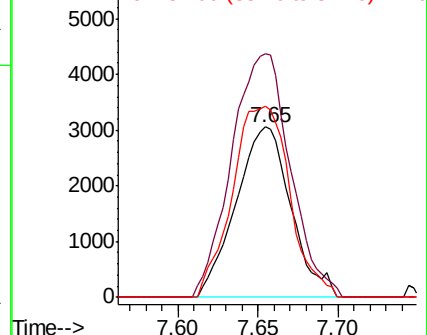
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7202

Ion	Ratio	Lower	Upper
56	100		
69	143.0	25.9	38.9#
84	112.0	65.6	98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.967 ug/l

RT: 8.01 min Scan# 1941

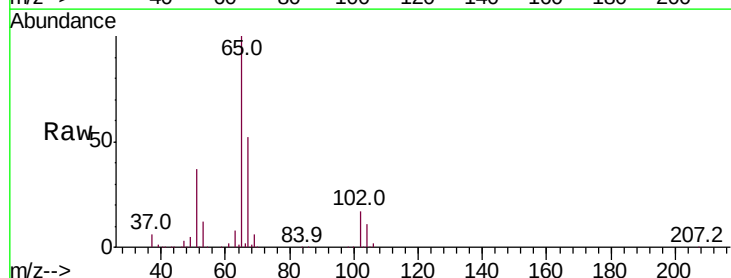
Delta R.T. 0.00 min

Lab File: VN057858.D

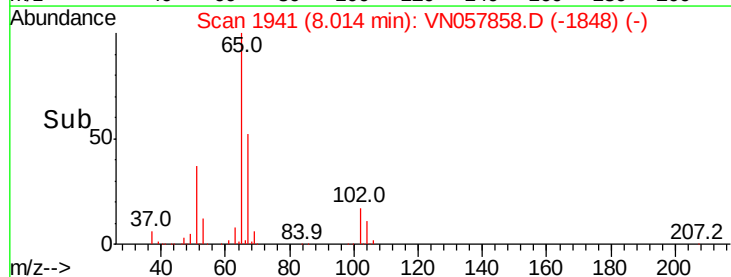
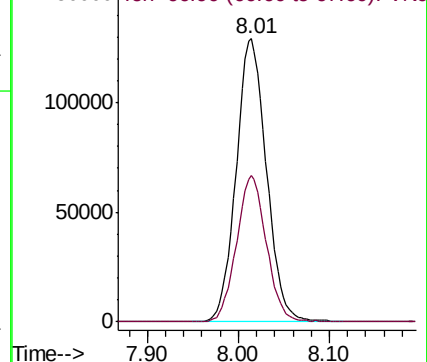
Acq: 10 Sep 2019 13:29

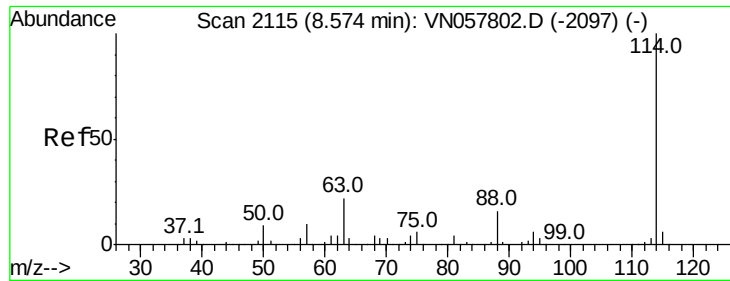
Tgt Ion: 65 Resp: 298523

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

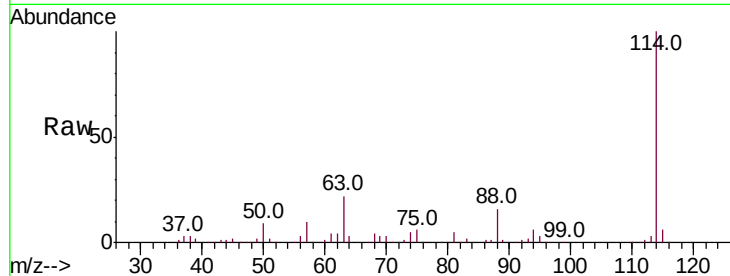




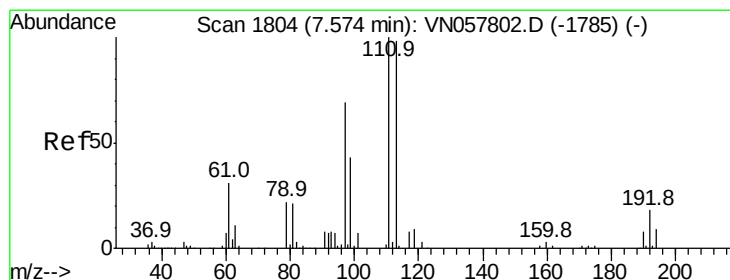
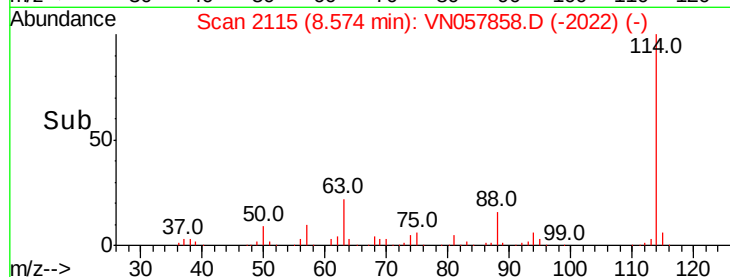
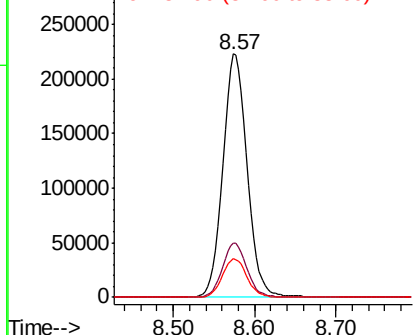
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 470875
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 15.7 0.0 31.4

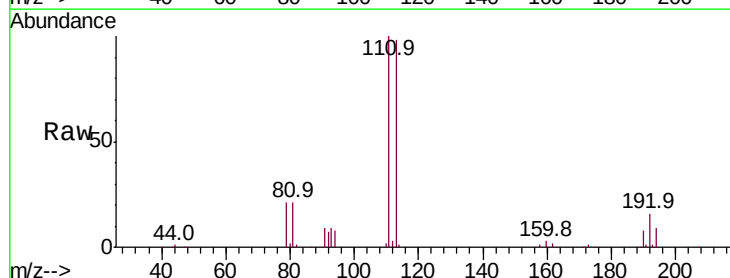


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

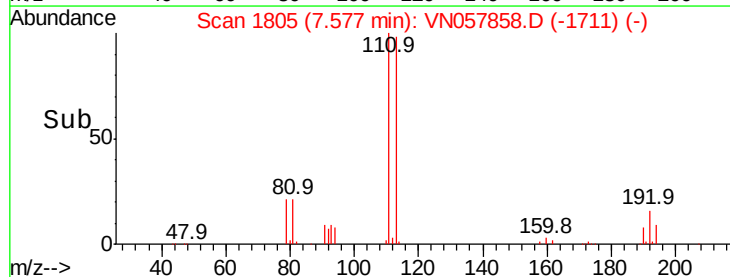
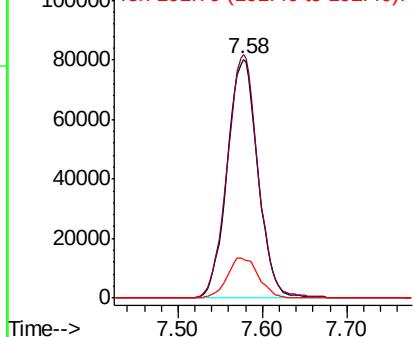


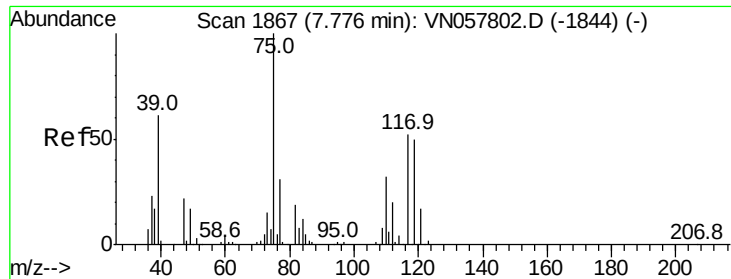
#35
 Dibromofluoromethane
 Concen: 46.813 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

Tgt Ion:113 Resp: 203448
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.3 121.9
 192 17.2 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

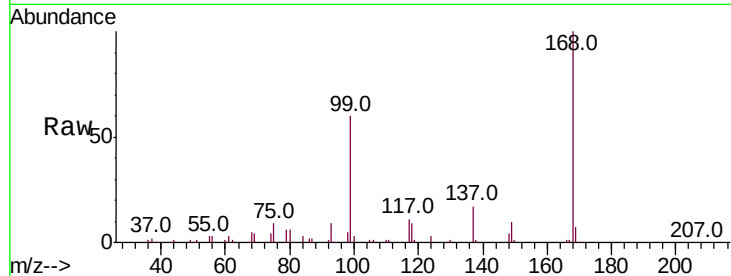




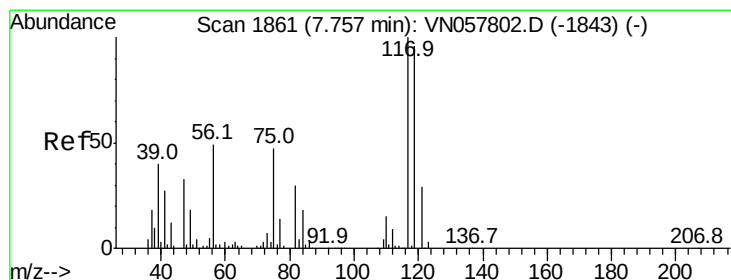
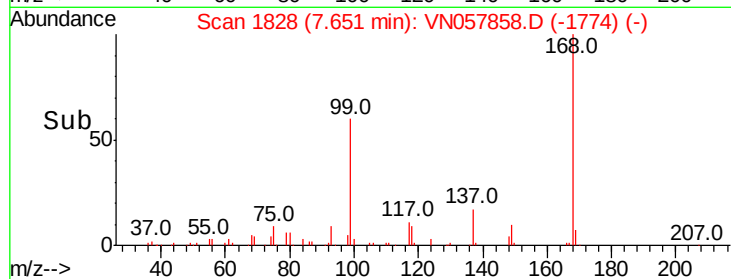
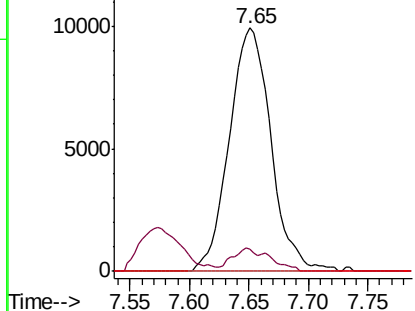
#36
 1,1-Dichloropropene
 Concen: 4.411 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.0	16.3	48.9#
77	0.0	25.0	37.4#

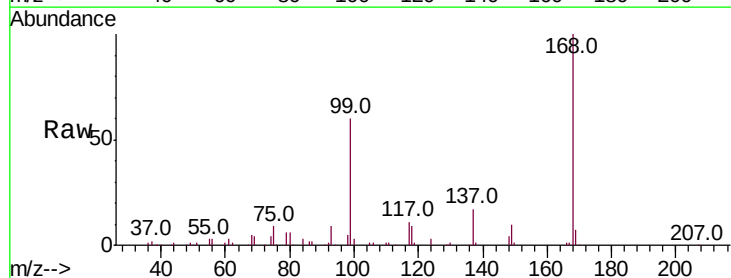


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

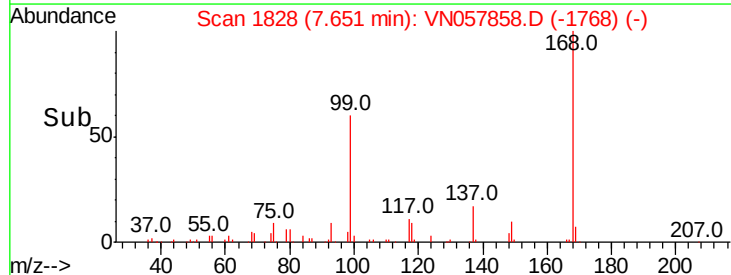
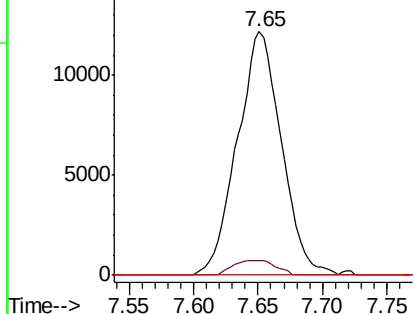


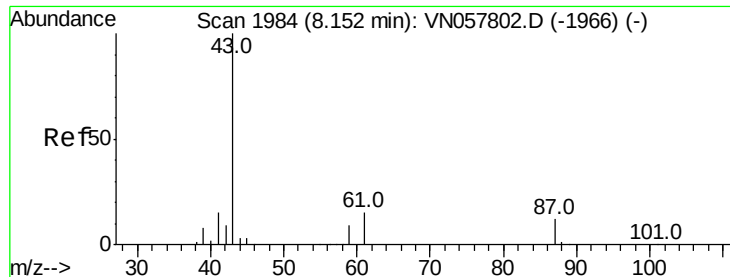
#38
 Carbon Tetrachloride
 Concen: 5.818 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

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



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





#43

Isopropyl Acetate

Concen: 10.698 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

ClientSampleId :

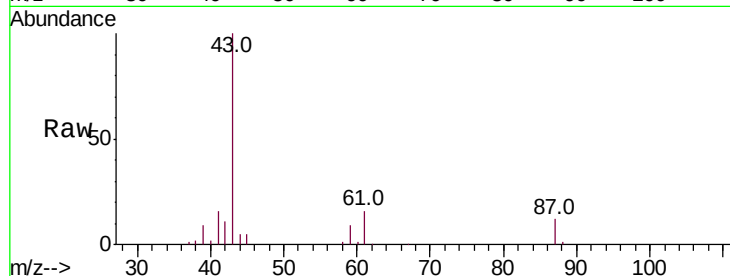
Tot Ion: 43 Resp: 101501

Ion Ratio Lower Upper

43 100

61 15.8 20.1 30.1#

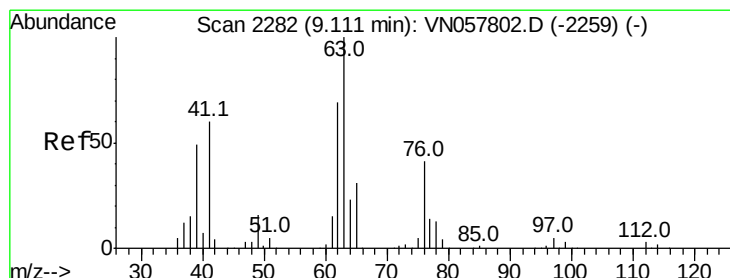
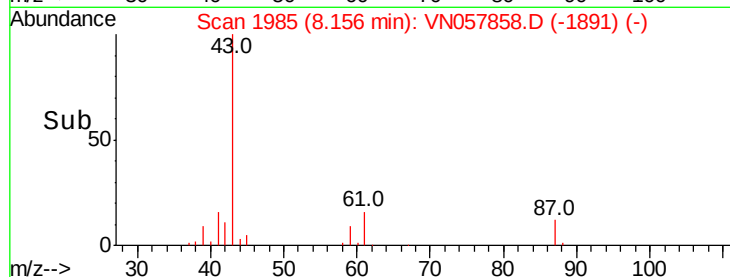
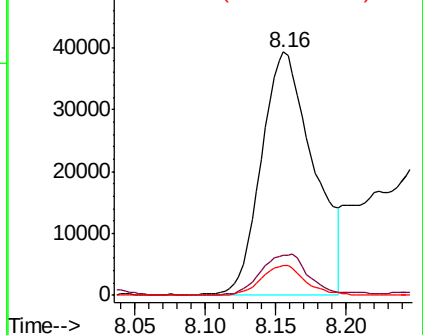
87 10.3 9.5 14.3



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: 0.349 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN057858.D

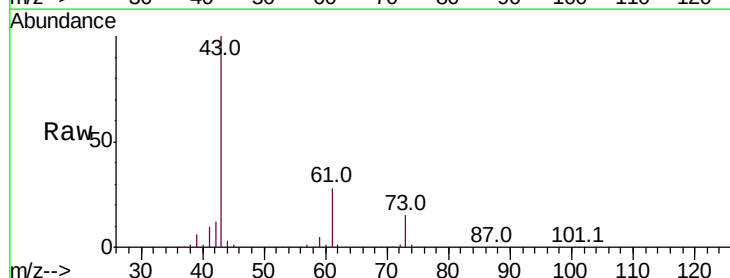
Acq: 10 Sep 2019 13:29

Tgt Ion: 63 Resp: 1671

Ion Ratio Lower Upper

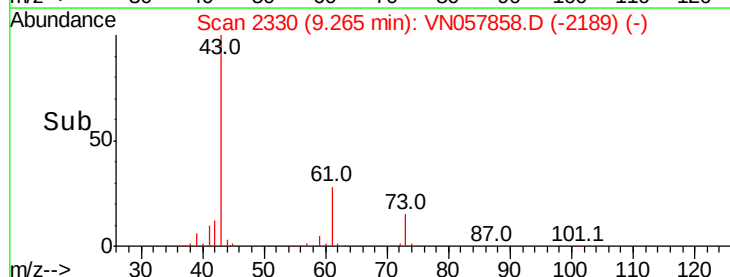
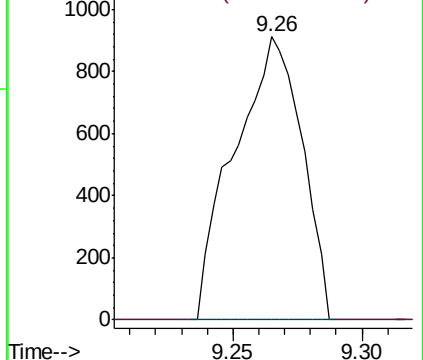
63 100

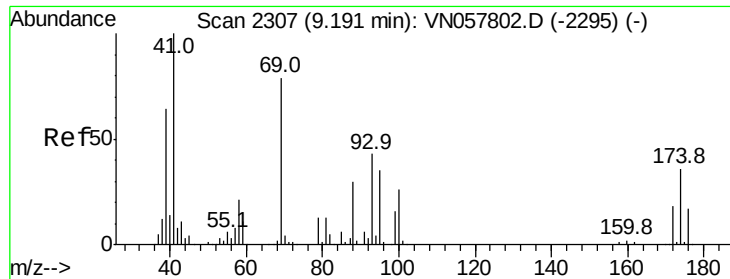
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

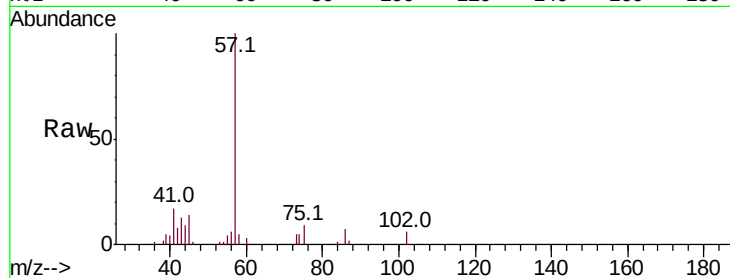




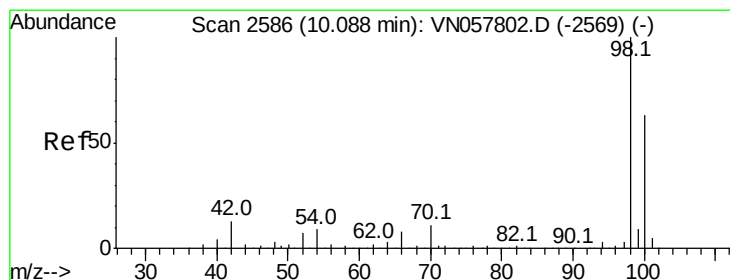
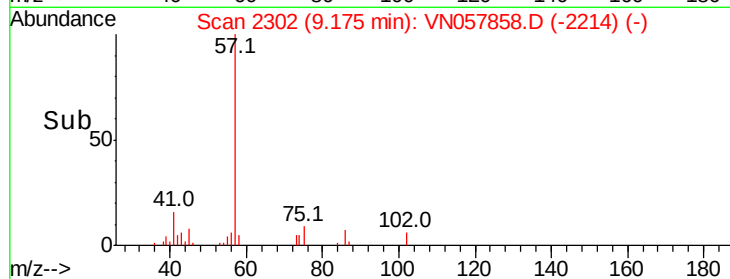
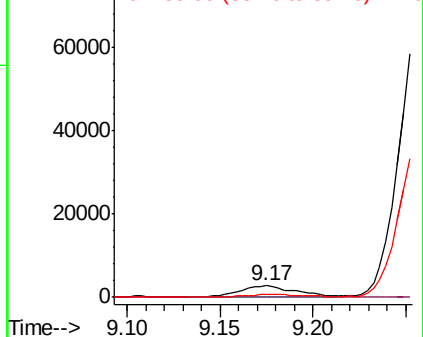
#48
Methvl methacrylate
Concen: 1.257 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 6052
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

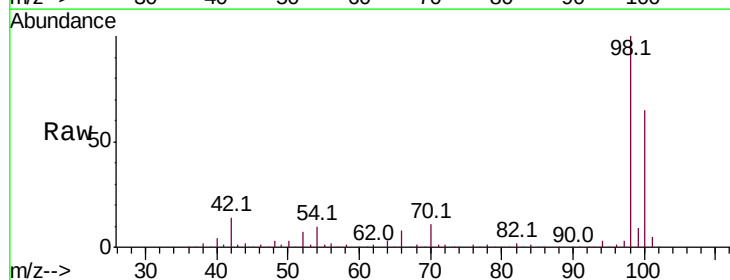


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

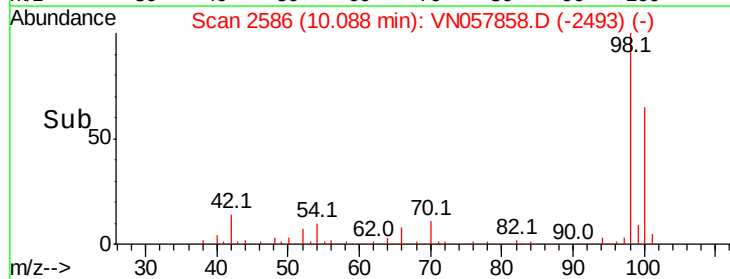
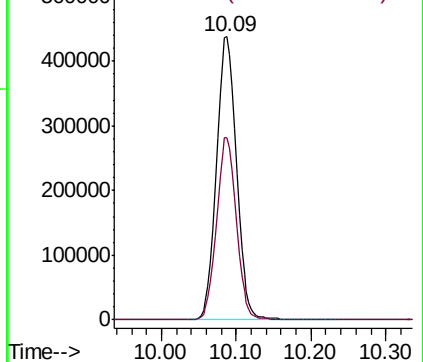


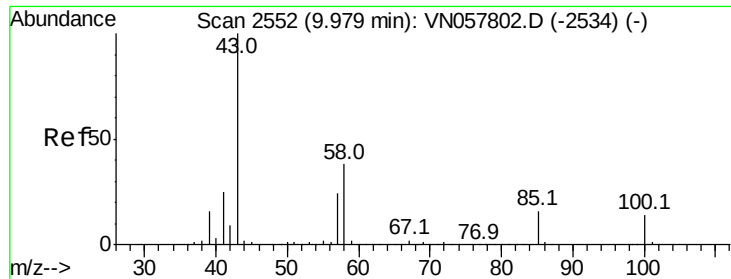
#50
Toluene-d8
Concen: 48.508 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057858.D
Acq: 10 Sep 2019 13:29

Tgt Ion: 98 Resp: 818504
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): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.794 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

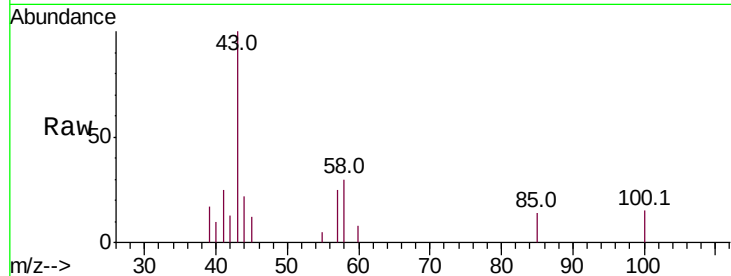
ClientSampled :

Tot Ion: 43 Resp: 4459

Ion Ratio Lower Upper

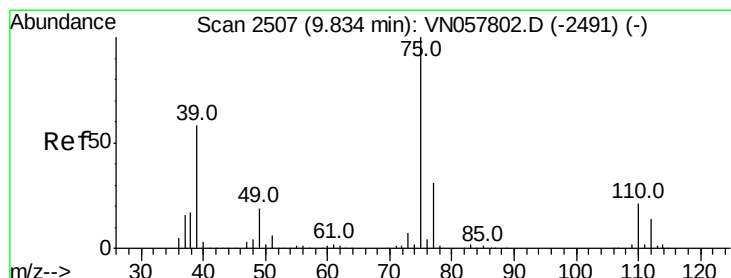
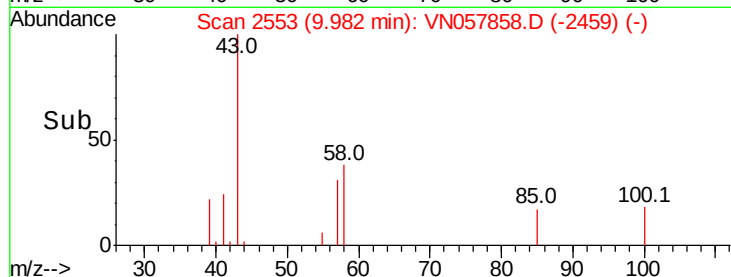
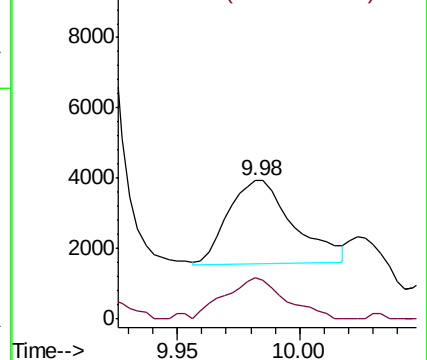
43 100

58 47.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.543 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

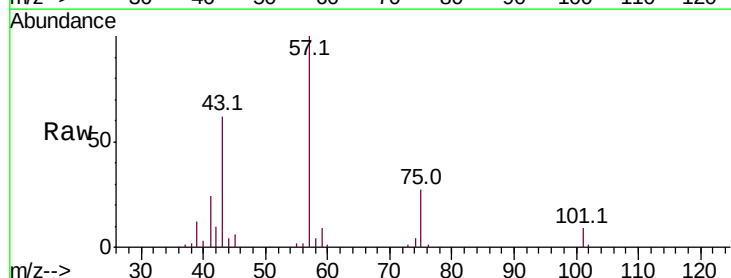
Tgt Ion: 75 Resp: 37201

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

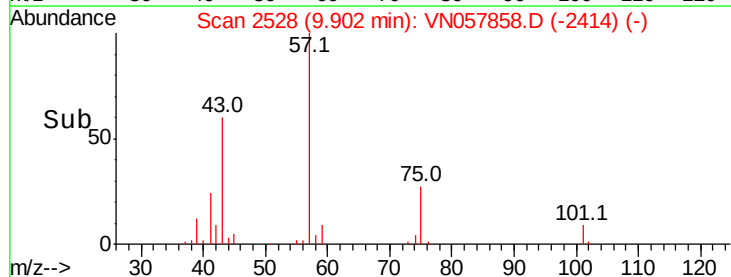
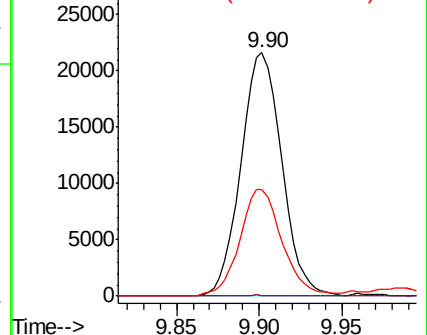
39 43.6 46.2 69.4#

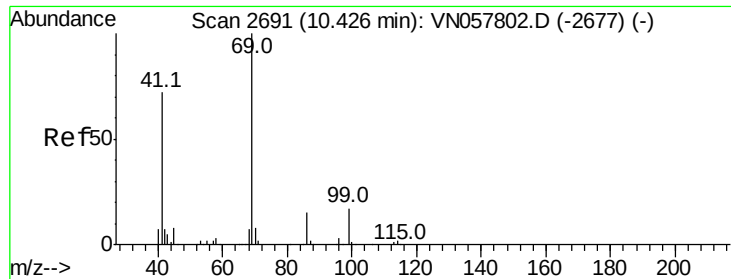


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.264 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

ClientSampleId :

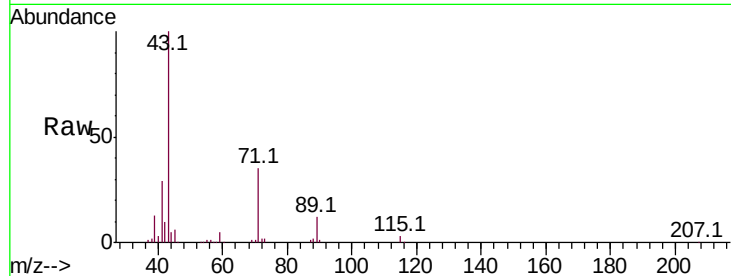
Tot Ion: 69 Resp: 1746

Ion Ratio Lower Upper

69 100

41 5416.9 56.7 85.1#

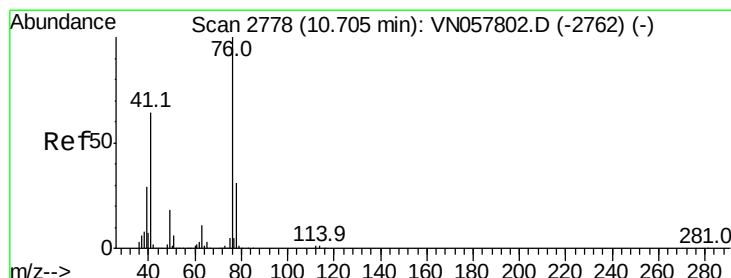
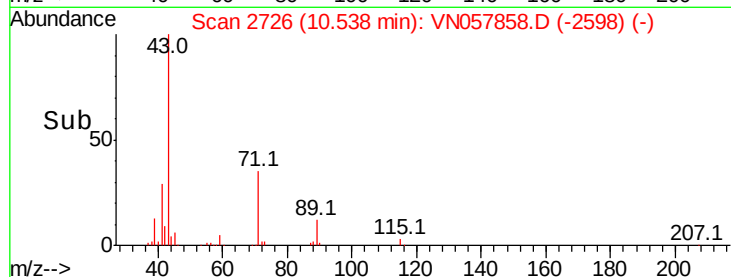
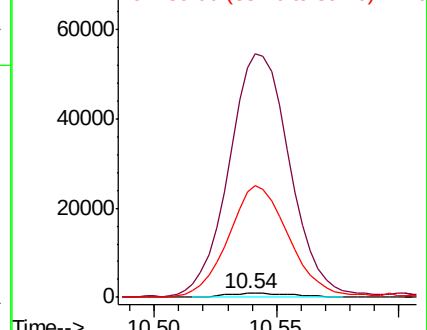
39 2439.5 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.853 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057858.D

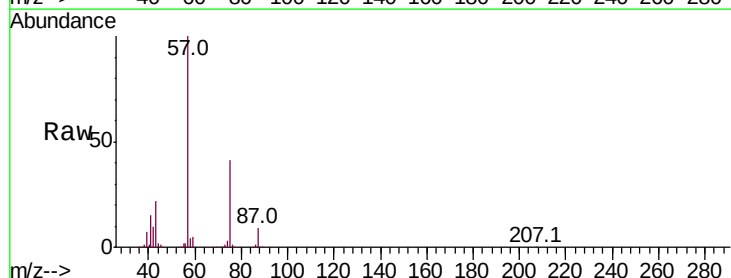
Acq: 10 Sep 2019 13:29

Tgt Ion: 76 Resp: 6447

Ion Ratio Lower Upper

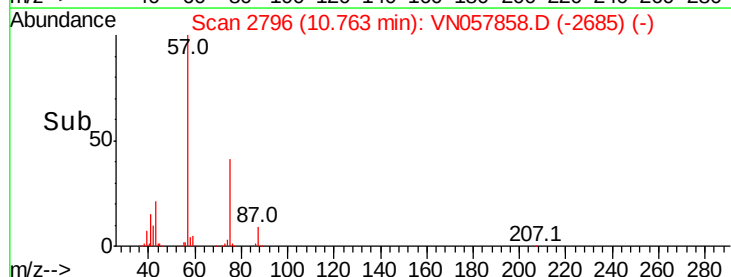
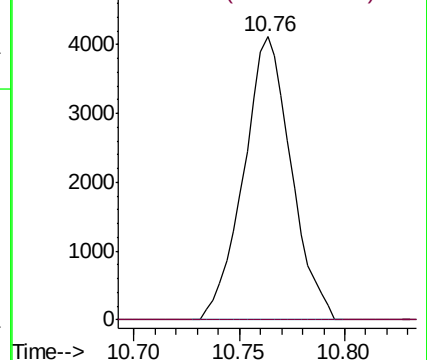
76 100

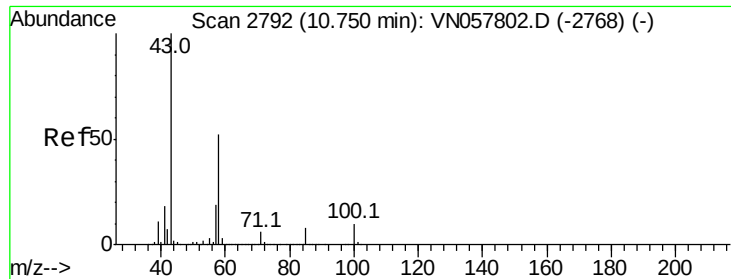
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 23.041 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

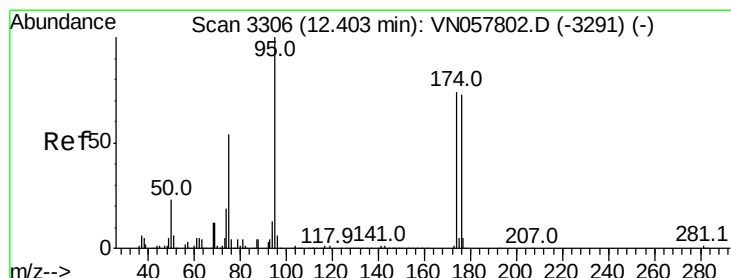
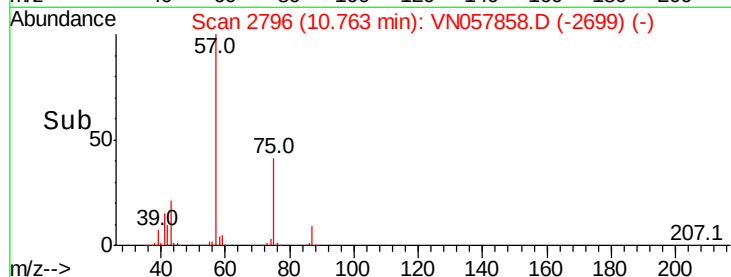
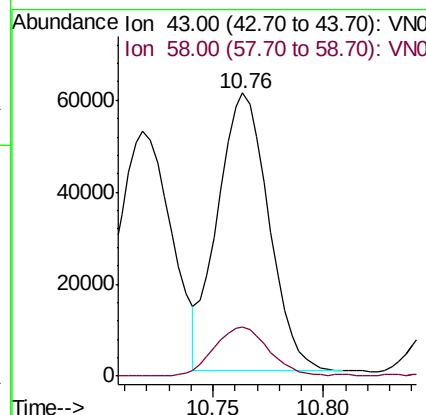
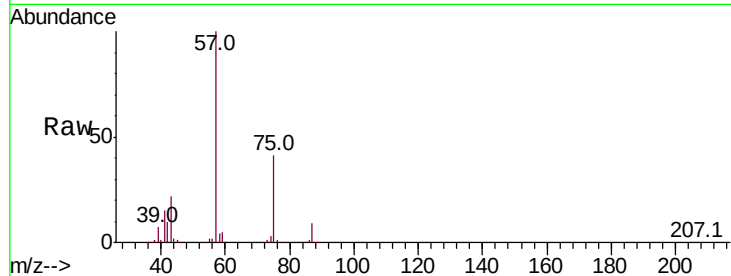
ClientSampleId :

Tot Ion: 43 Resp: 96969

Ion Ratio Lower Upper

43 100

58 19.0 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 41.461 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

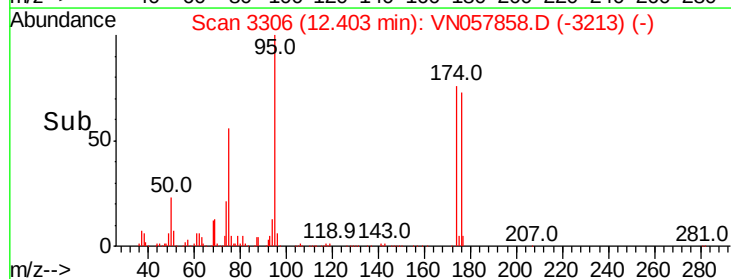
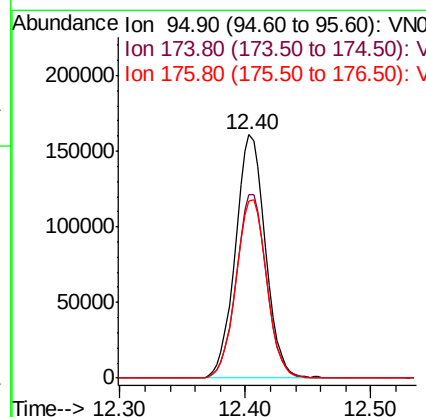
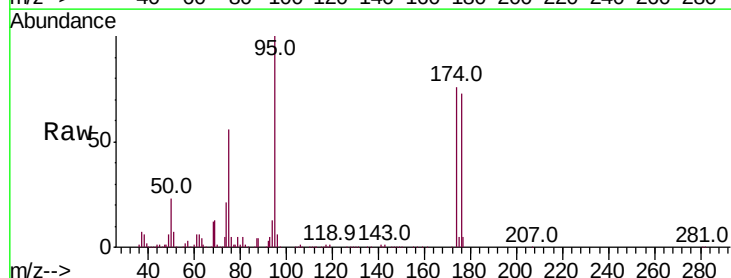
Tgt Ion: 95 Resp: 266604

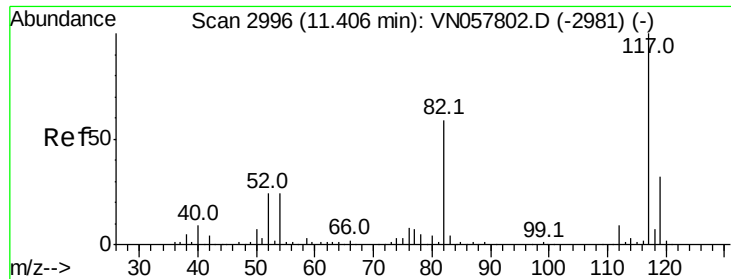
Ion Ratio Lower Upper

95 100

174 76.3 0.0 150.2

176 75.1 0.0 146.0

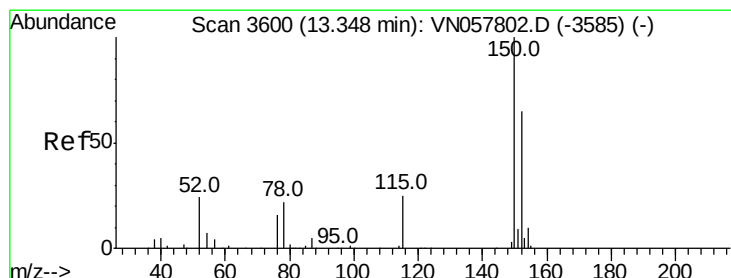
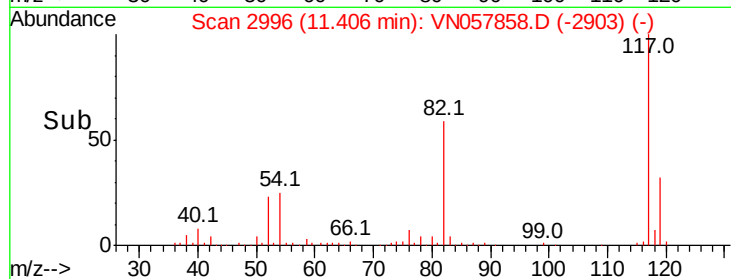
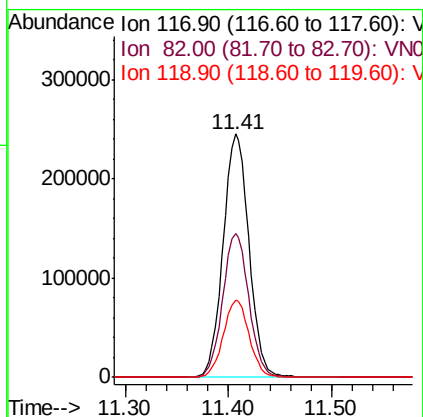
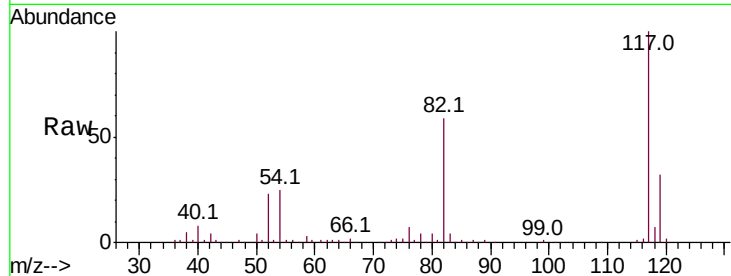




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. 0.00 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

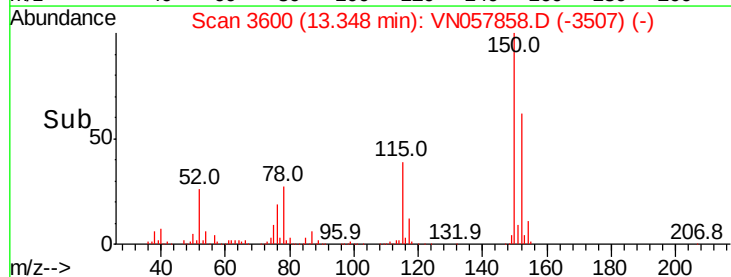
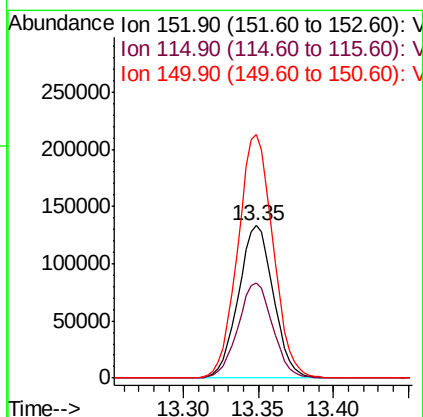
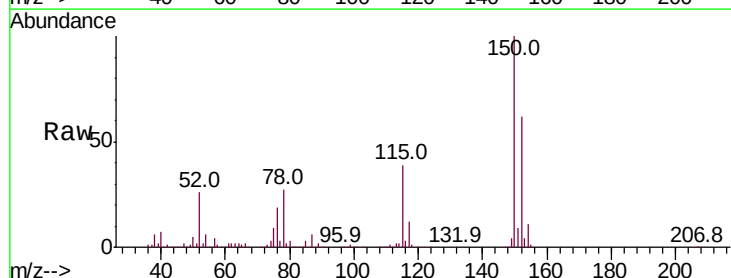
Instrument :
 MSVOA_N
 ClientSampleId :

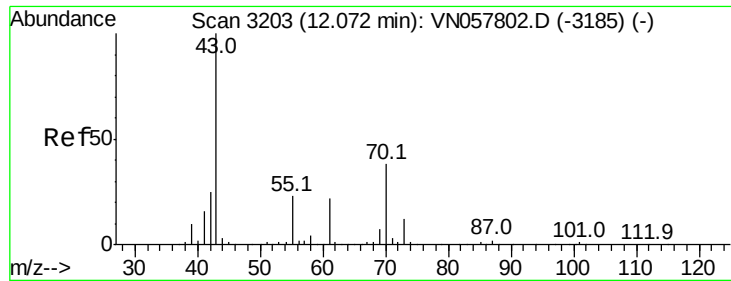
Tot Ion:117 Resp: 427328
 Ion Ratio Lower Upper
 117 100
 82 59.3 47.2 70.8
 119 31.6 25.3 37.9



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN057858.D
 Acq: 10 Sep 2019 13:29

Tgt Ion:152 Resp: 217489
 Ion Ratio Lower Upper
 152 100
 115 62.2 30.3 91.0
 150 160.5 0.0 352.4





#74

N-amvl acetate

Concen: 0.524 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3852

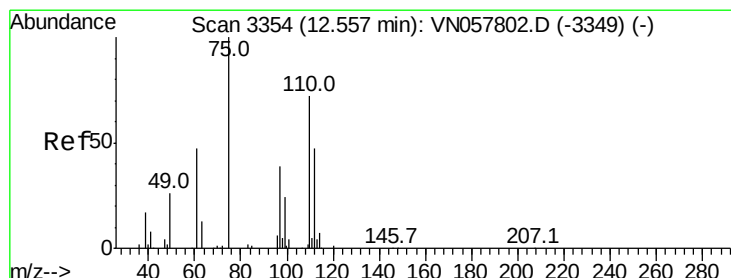
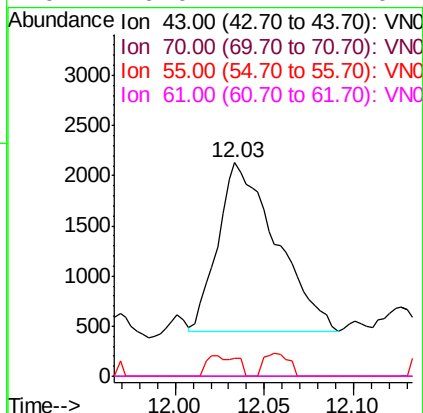
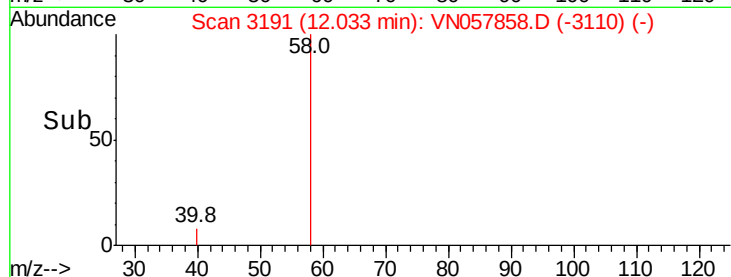
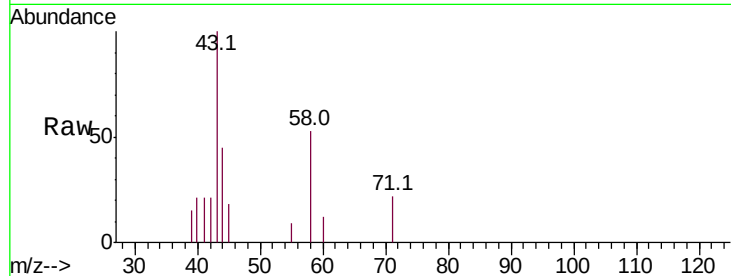
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.2 18.6 27.8#

61 0.0 17.4 26.2#



#76

1,2,3-Trichloropropane

Concen: 30.463 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057858.D

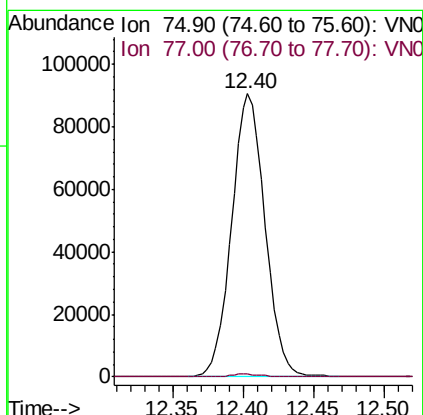
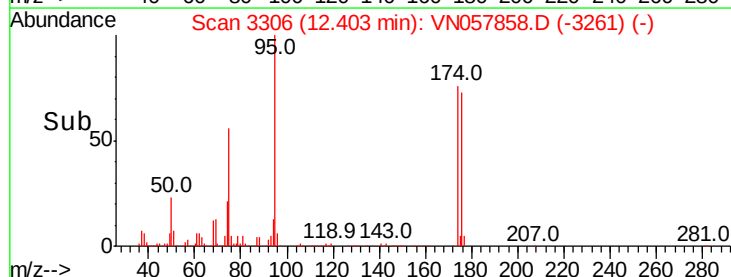
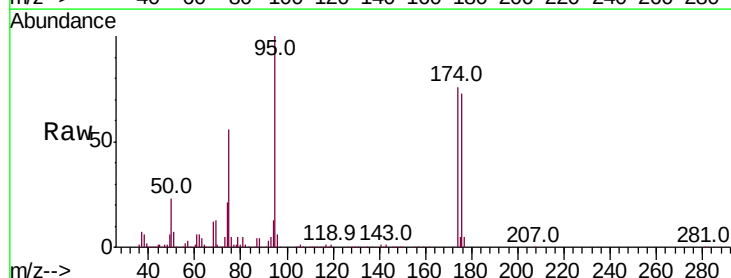
Acq: 10 Sep 2019 13:29

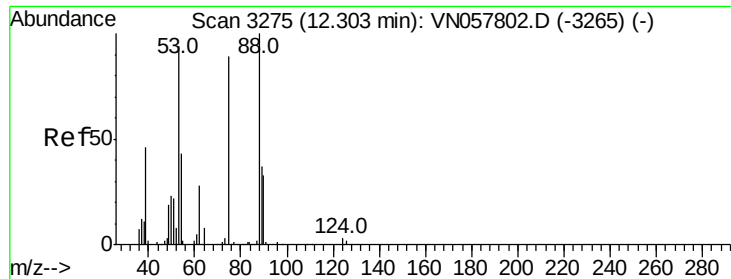
Tgt Ion: 75 Resp: 149879

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 107.201 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

Instrument :

MSVOA_N

ClientSampled :

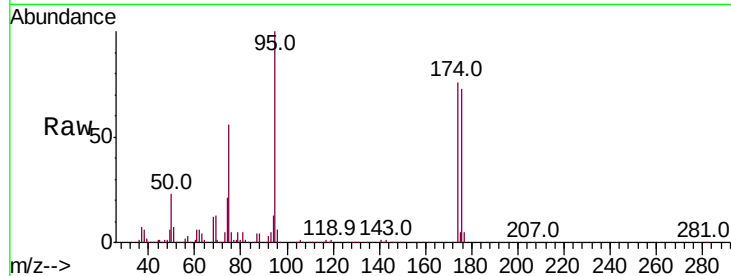
Tot Ion: 75 Resp: 149879

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

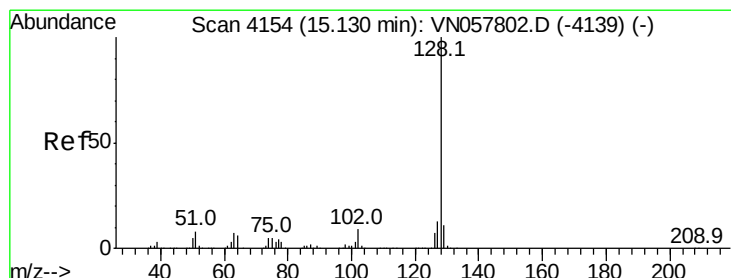
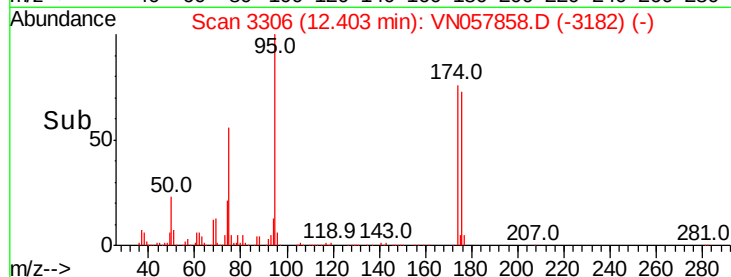
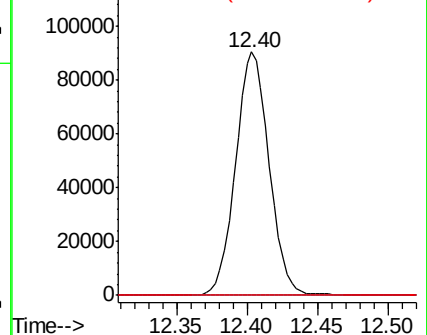
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057858.D

Acq: 10 Sep 2019 13:29

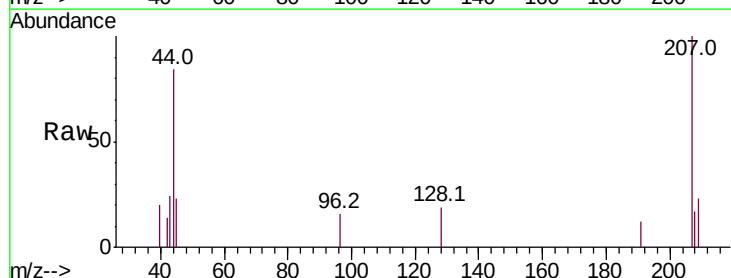
Tgt Ion: 128 Resp: 238

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

