

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091419\
 Data File : VN058065.D
 Acq On : 14 Sep 2019 10:23
 Operator : JC/SP
 Sample : K4860-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 01:58:04 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	331025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	579249	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	531711	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	282655	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	389219	58.05	ug/l	0.00
Spiked Amount			Recovery	=	116.10%	
35) Dibromofluoromethane	7.57	113	260535	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	10.09	98	1066616	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
62) 4-Bromofluorobenzene	12.40	95	357331	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

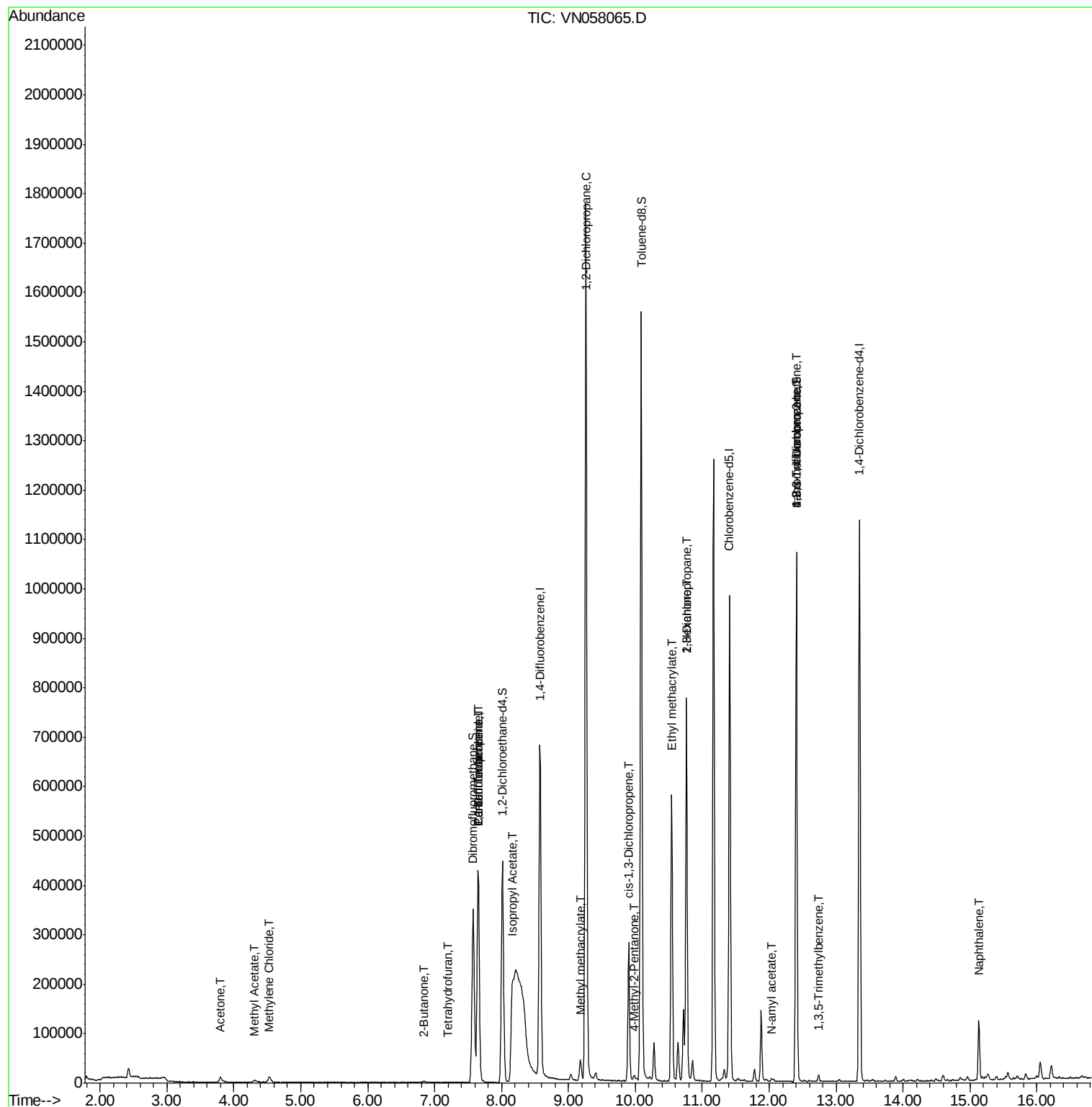
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	30	Below Cal	#	2
16) Acetone	3.80	43	19572	8.905	ug/l	93
18) Methyl Acetate	4.31	43	7153	1.221	ug/l	94
20) Methylene Chloride	4.53	84	8467	0.813	ug/l #	85
25) 2-Butanone	6.83	43	3081	0.969	ug/l	98
29) Tetrahydrofuran	7.19	42	561	0.286	ug/l	91
31) Cyclohexane	7.65	56	8243	Below Cal	#	22
36) 1,1-Dichloropropene	7.65	75	29581	4.403	ug/l #	51
38) Carbon Tetrachloride	7.65	117	34365	5.603	ug/l #	15
43) Isopropyl Acetate	8.16	43	238514	20.435	ug/l #	74
45) 1,2-Dichloropropane	9.26	63	1951	0.332	ug/l #	44
48) Methyl methacrylate	9.17	41	7164	1.210	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7828	1.133	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	47510	5.754	ug/l #	68
56) Ethyl methacrylate	10.54	69	1991	0.245	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7555	0.812	ug/l #	43
59) 2-Hexanone	10.76	43	120377	23.252	ug/l #	53
74) N-amyl acetate	12.03	43	5629	0.590	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	193638	30.284	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	6167	0.333	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	193638	106.569	ug/l #	6
95) Naphthalene	15.13	128	94671	4.285	ug/l	99

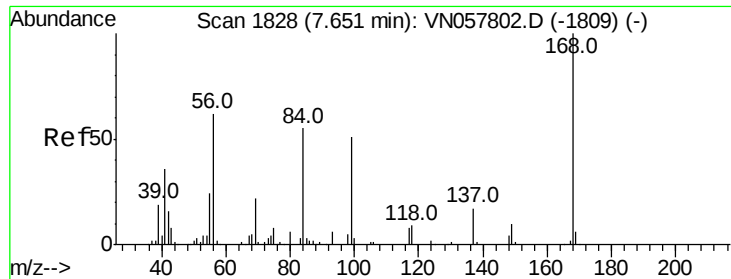
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 16 01:58:04 2019
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: VN058065.D

Acq: 14 Sep 2019 10:23

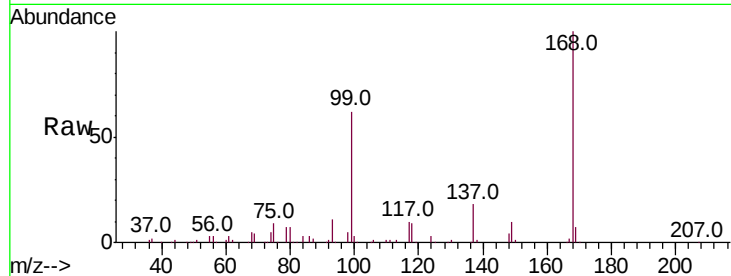
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 331025

Ion Ratio Lower Upper

168 100

99 62.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

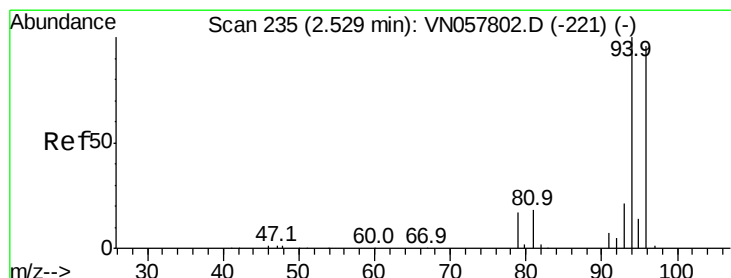
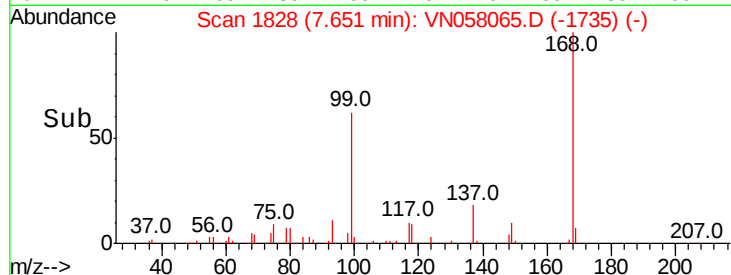
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN058065.D

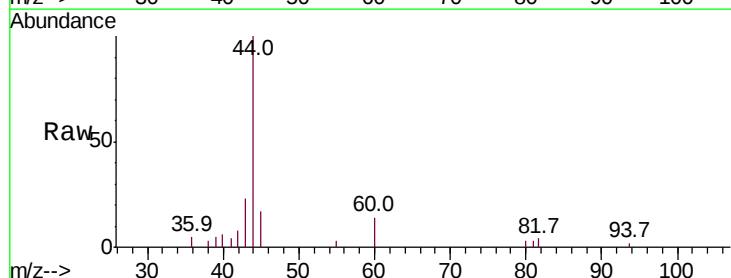
Acq: 14 Sep 2019 10:23

Tgt Ion: 94 Resp: 30

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

200

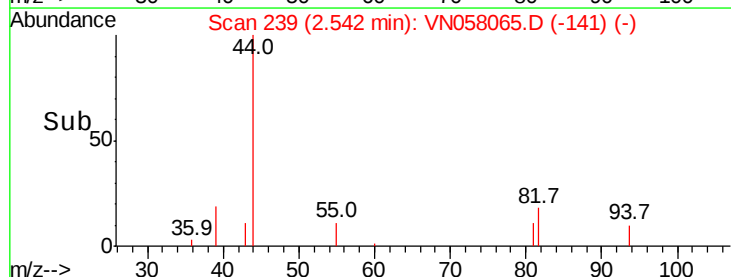
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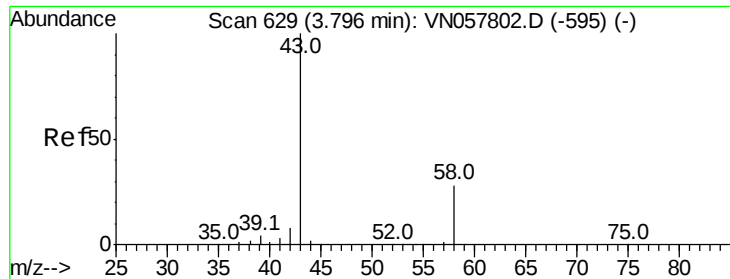
100

50

0

Time-->

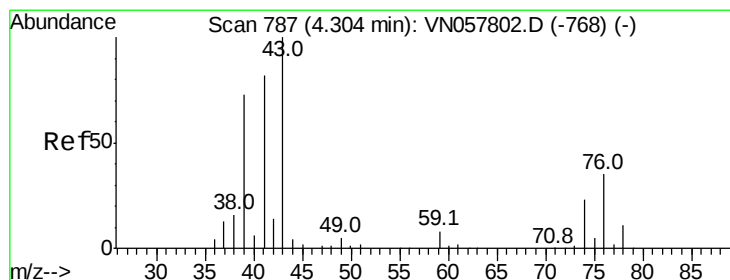
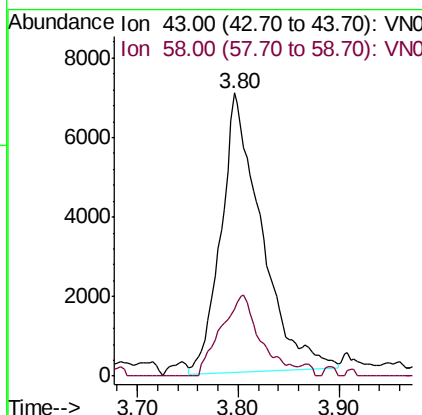
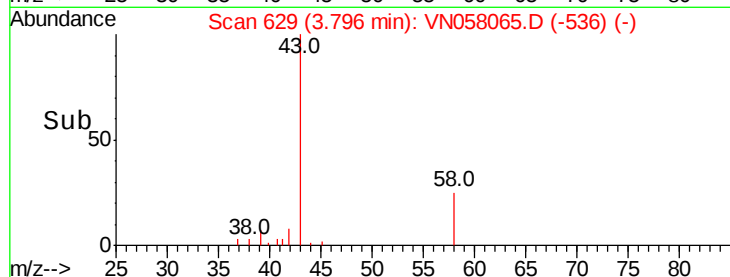
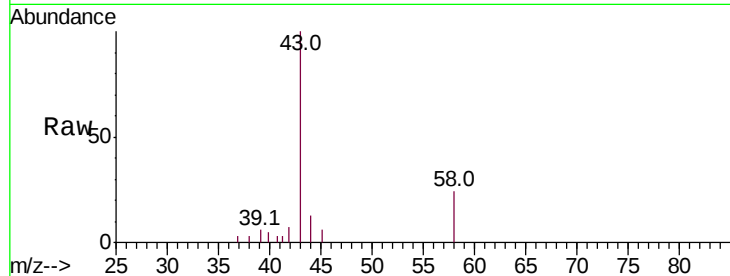




#16
 Acetone
 Concen: 8.905 ug/l
 RT: 3.80 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN058065.D
 Acq: 14 Sep 2019 10:23

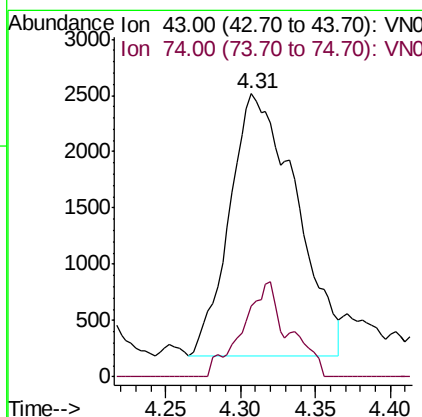
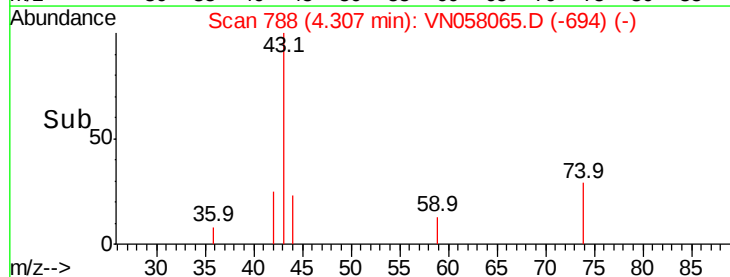
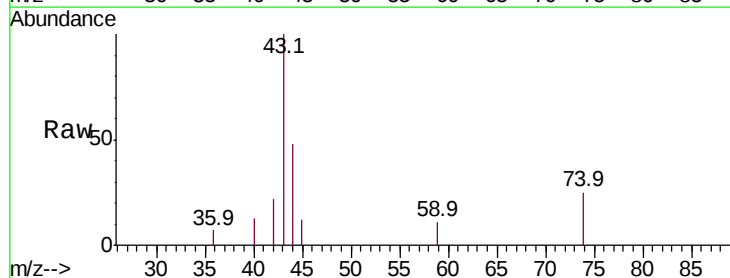
Instrument :
 MSVOA_N
 ClientSampled :

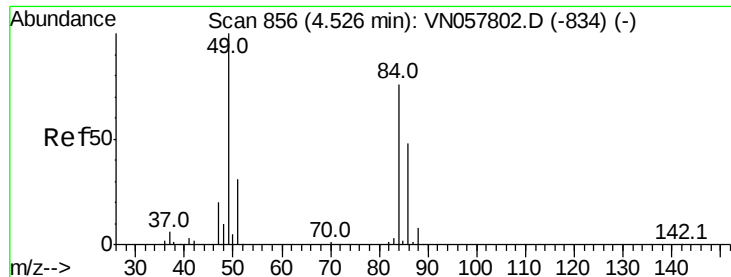
Tot Ion: 43 Resp: 19572
 Ion Ratio Lower Upper
 43 100
 58 24.3 22.2 33.2



#18
 Methyl Acetate
 Concen: 1.221 ug/l
 RT: 4.31 min Scan# 788
 Delta R.T. 0.00 min
 Lab File: VN058065.D
 Acq: 14 Sep 2019 10:23

Tgt Ion: 43 Resp: 7153
 Ion Ratio Lower Upper
 43 100
 74 19.8 17.9 26.9

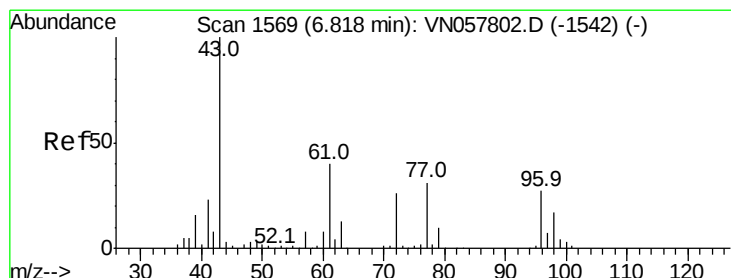
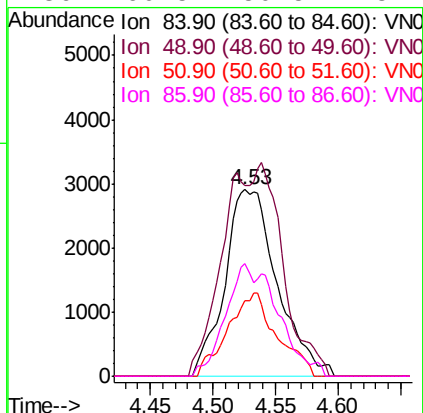
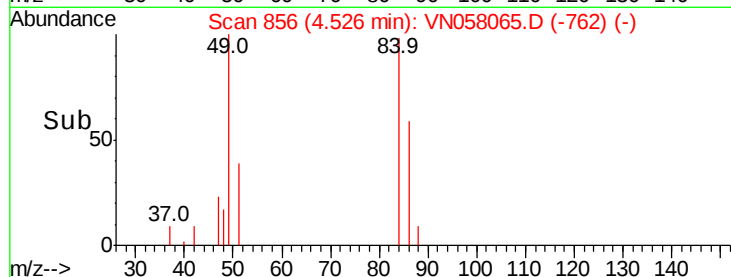
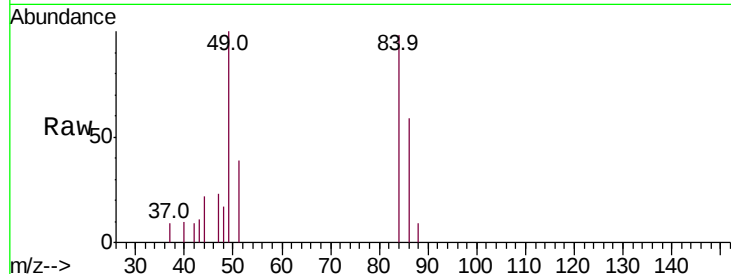




#20
Methvlene Chloride
Concen: 0.813 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

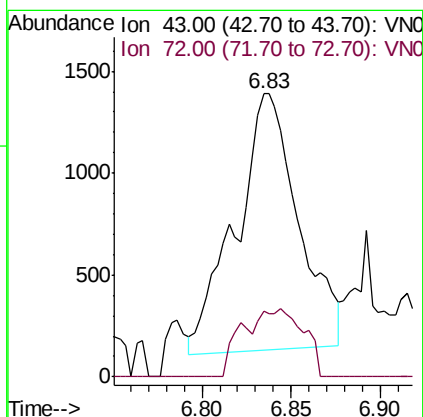
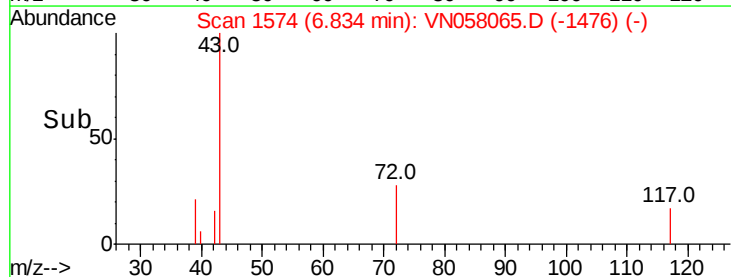
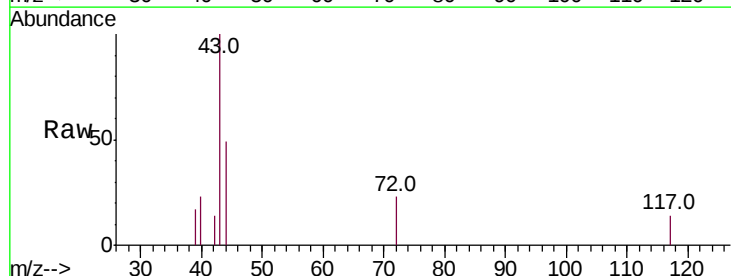
Instrument :
MSVOA_N
ClientSampled :

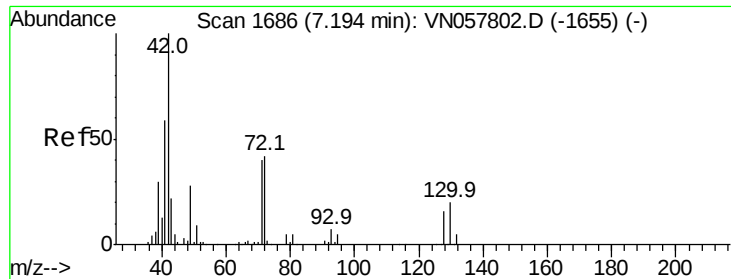
Tot Ion: 84 Resp: 8467
Ion Ratio Lower Upper
84 100
49 102.1 104.8 157.2#
51 40.2 33.0 49.4
86 60.5 50.5 75.7



#25
2-Butanone
Concen: 0.969 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Tgt Ion: 43 Resp: 3081
Ion Ratio Lower Upper
43 100
72 26.8 20.6 30.8

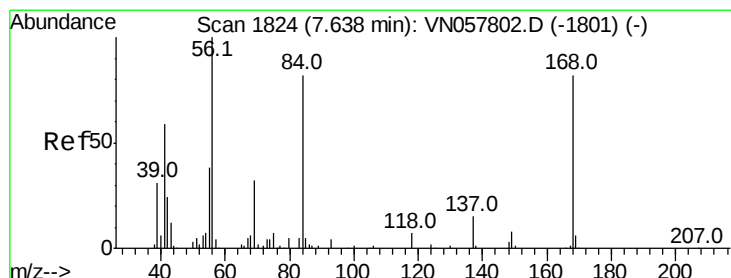
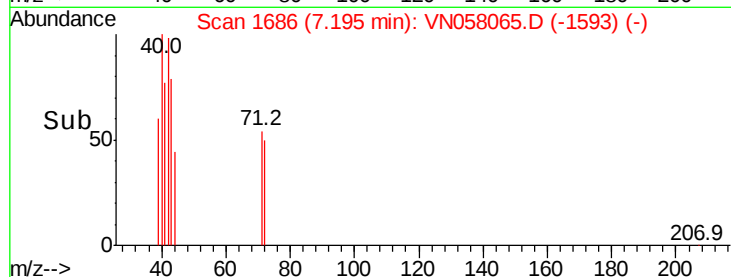
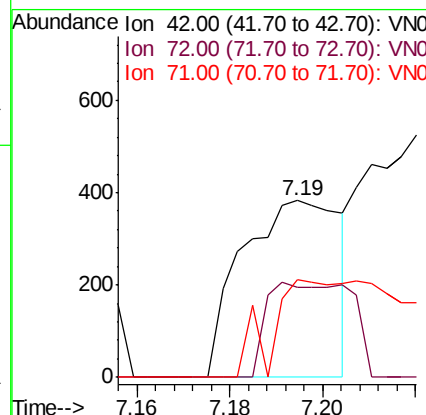
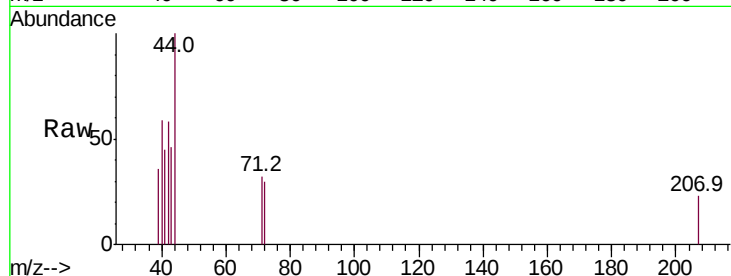




#29
Tetrahydrofuran
Concen: 0.286 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

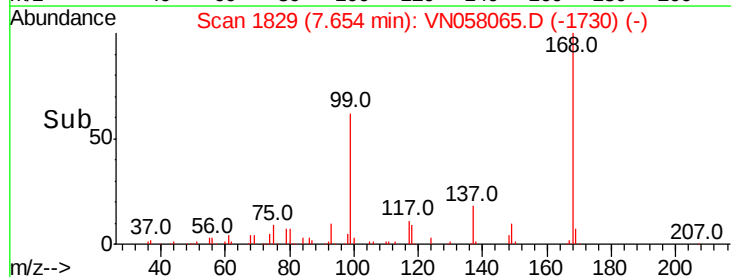
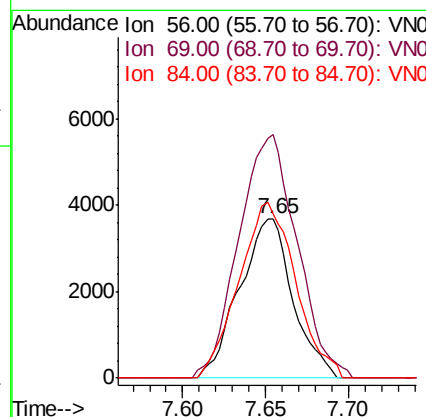
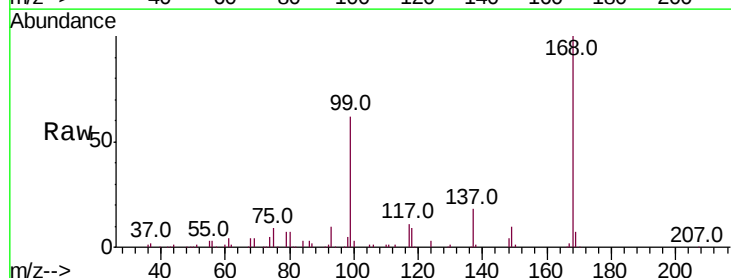
Instrument :
MSVOA_N
ClientSampled :

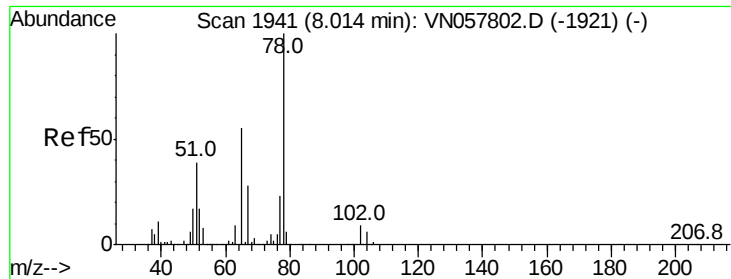
Tot Ion: 42 Resp: 561
Ion Ratio Lower Upper
42 100
72 46.3 33.7 50.5
71 32.4 31.9 47.9



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Tgt Ion: 56 Resp: 8243
Ion Ratio Lower Upper
56 100
69 152.6 25.9 38.9#
84 103.2 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 58.052 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

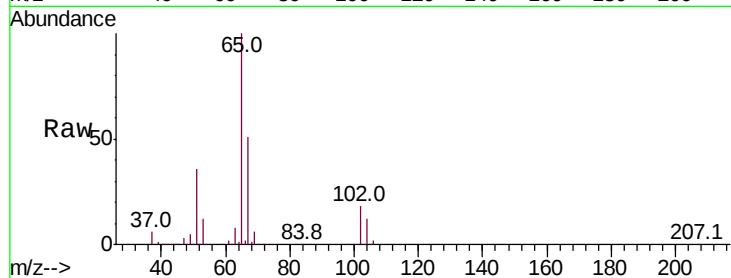
ClientSampled :

Tot Ion: 65 Resp: 389219

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

150000

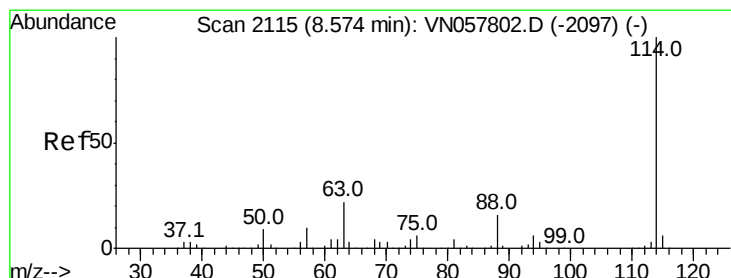
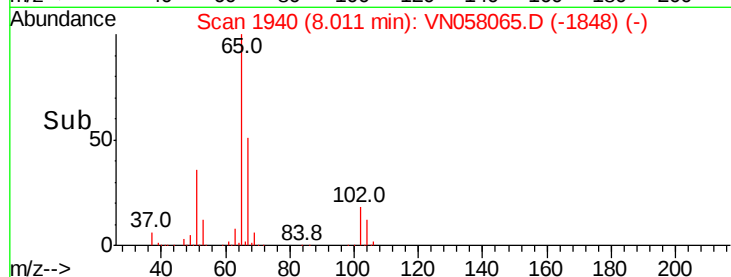
100000

50000

0

Time-->

7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

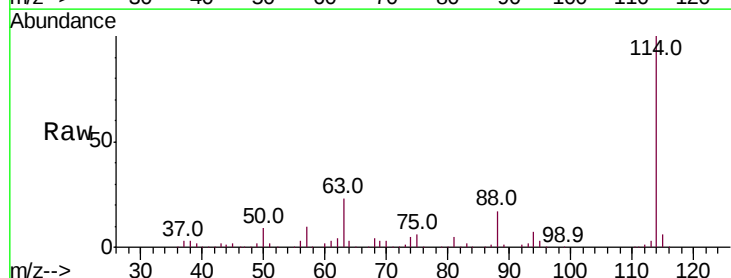
Tgt Ion:114 Resp: 579249

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.0

88 16.9 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.57

300000

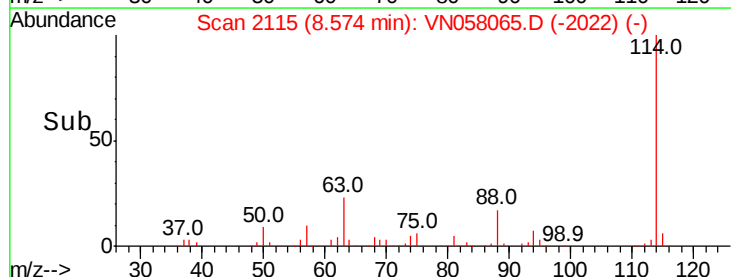
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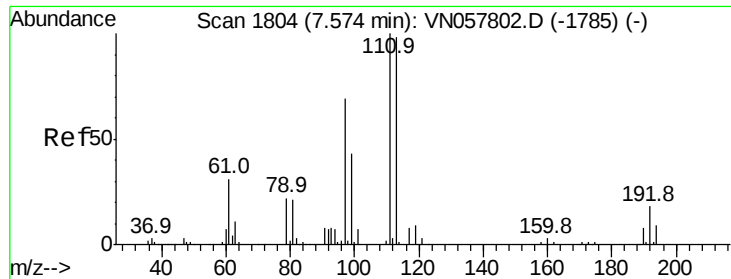
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0

Time-->

8.50 8.60 8.70

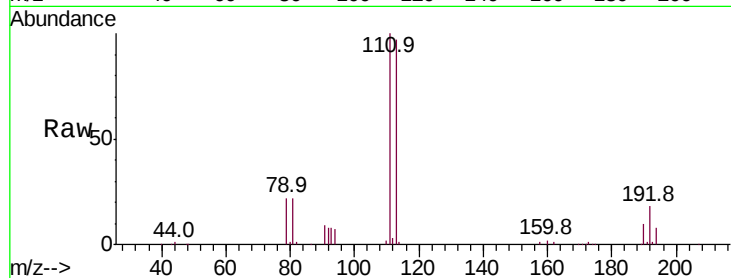




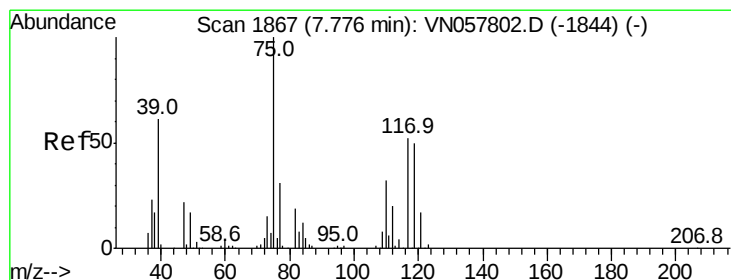
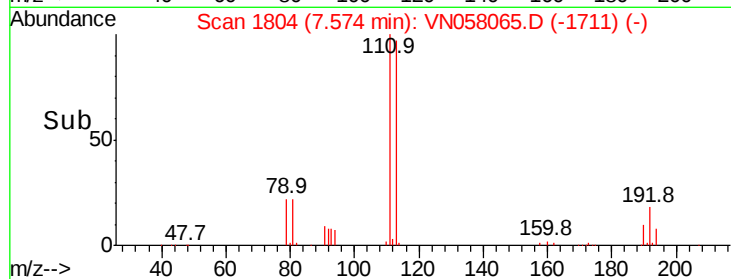
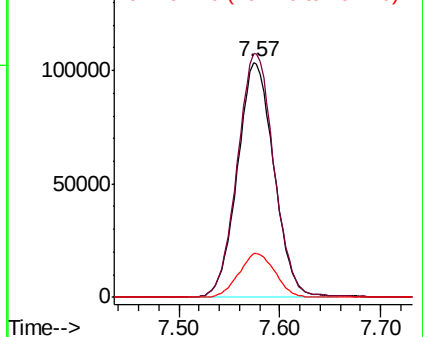
#35
Dibromofluoromethane
Concen: 48.732 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.3	121.9
192	18.4	14.6	22.0

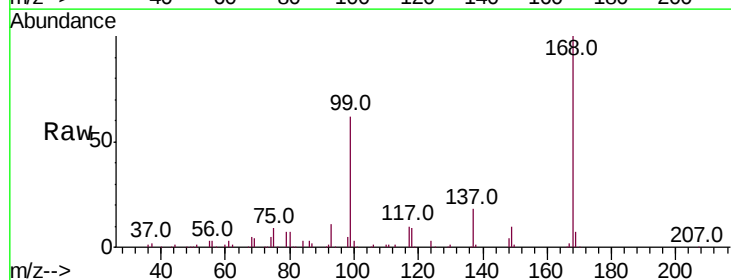


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

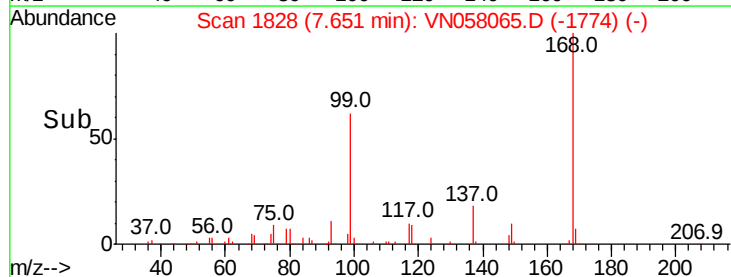
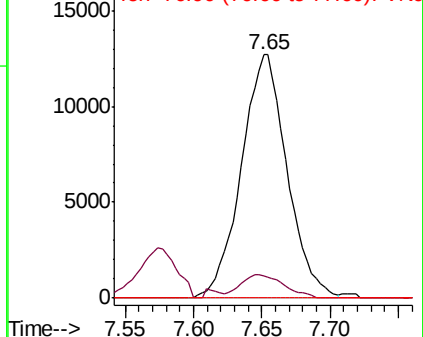


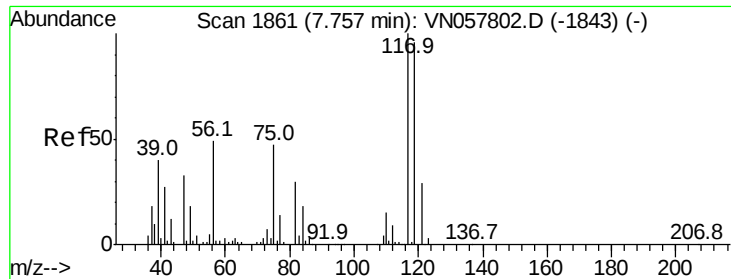
#36
1,1-Dichloropropene
Concen: 4.403 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.13 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.3	48.9#
77	0.0	25.0	37.4#



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

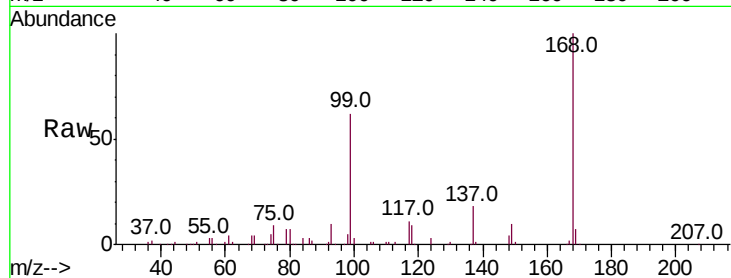




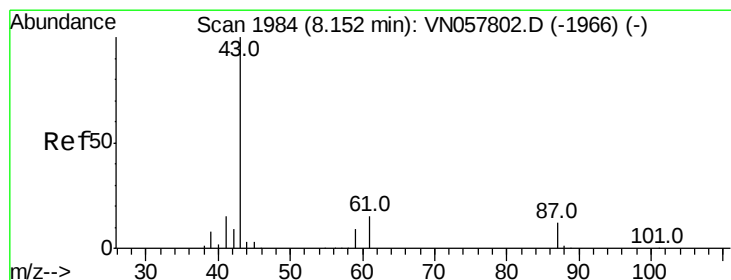
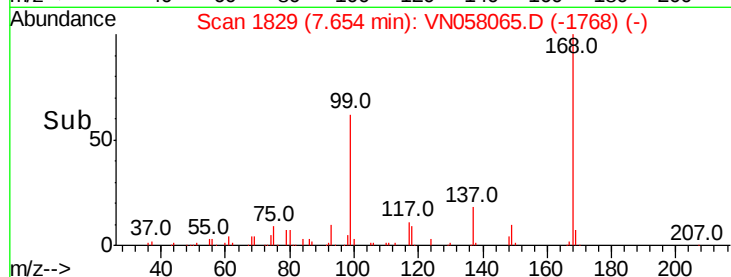
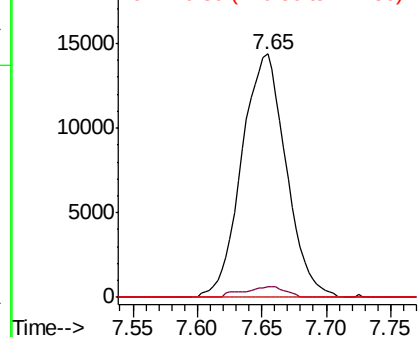
#38
Carbon Tetrachloride
Concen: 5.603 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 34365
Ion Ratio Lower Upper
117 100
119 4.3 76.9 115.3#
121 0.0 23.4 35.2#

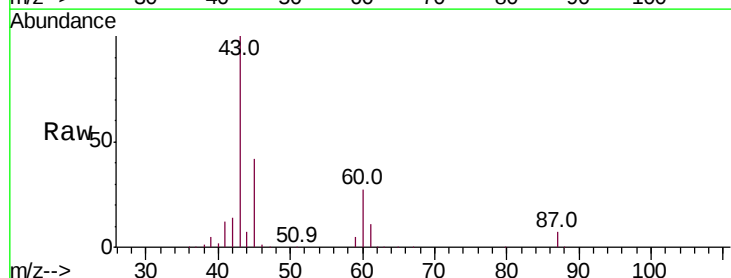


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

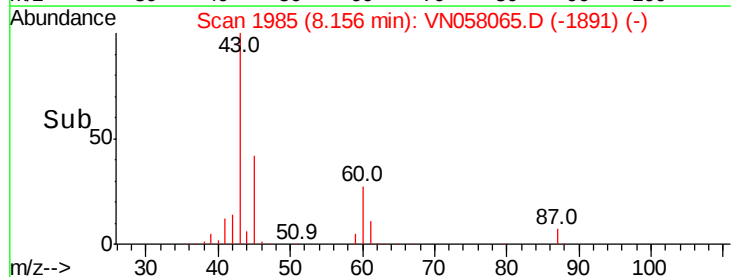
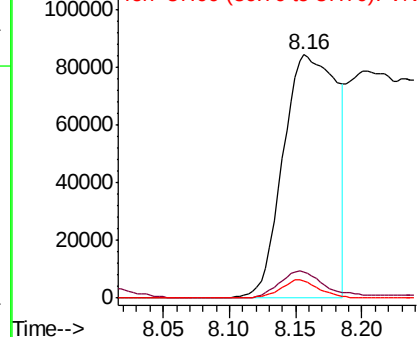


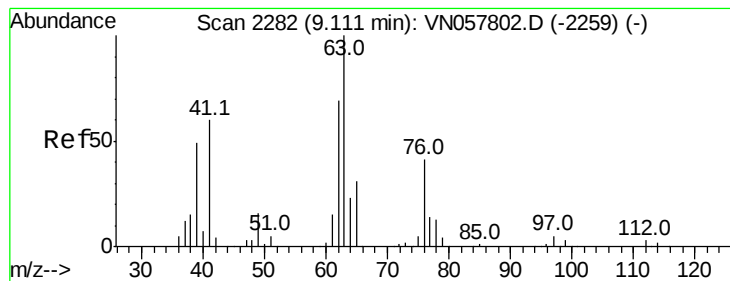
#43
Isopropyl Acetate
Concen: 20.435 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Tgt Ion: 43 Resp: 238514
Ion Ratio Lower Upper
43 100
61 9.5 20.1 30.1#
87 5.4 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: 0.332 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

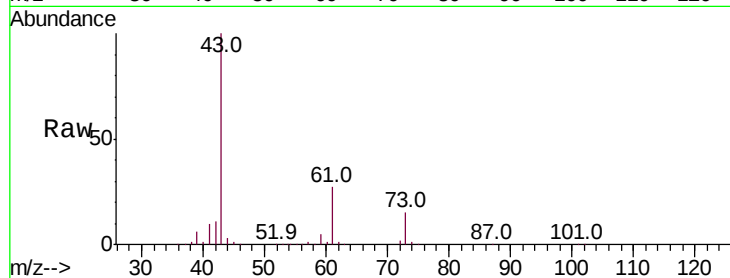
ClientSampled :

Tot Ion: 63 Resp: 1951

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

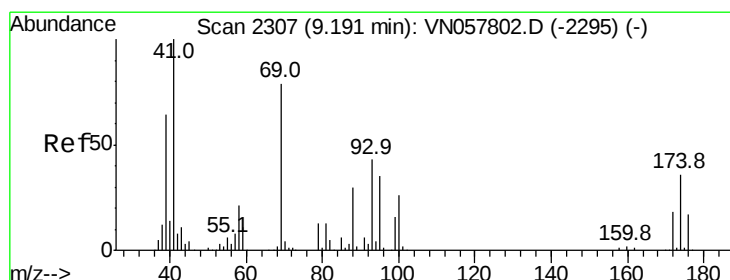
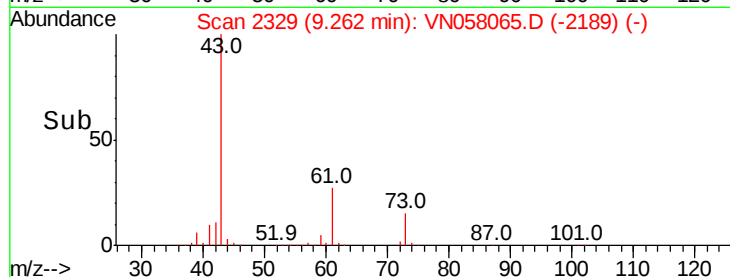
9.26

1000

500

0

Time-->



#48

Methyl methacrylate

Concen: 1.210 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

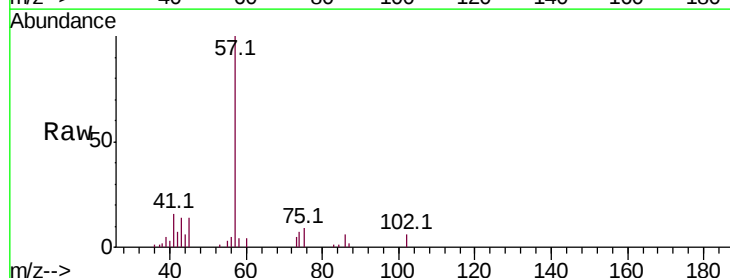
Tgt Ion: 41 Resp: 7164

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

120000

100000

80000

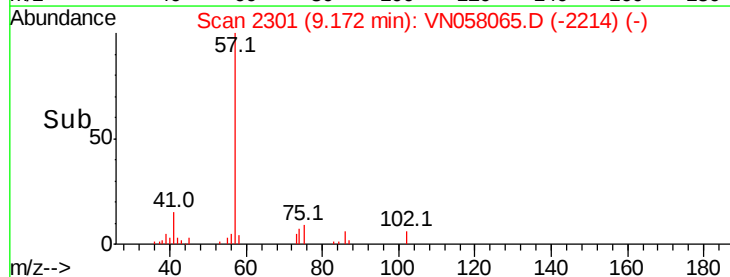
60000

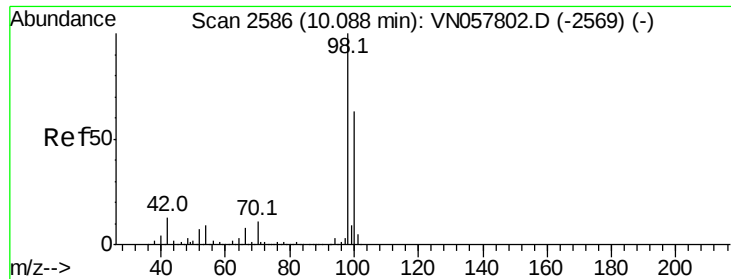
40000

20000

0

Time-->

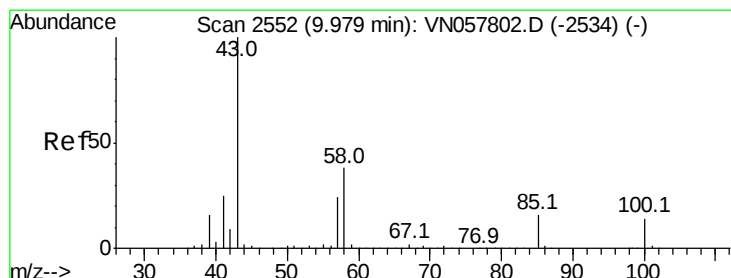
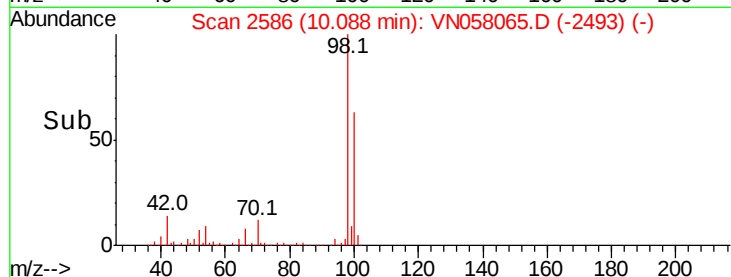
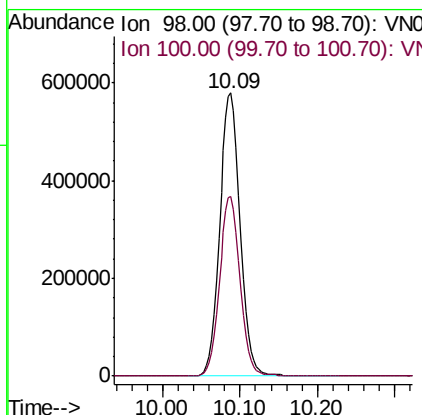
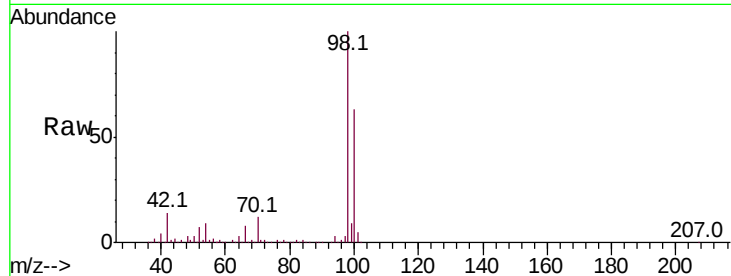




#50
Toluene-d8
Concen: 51.386 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

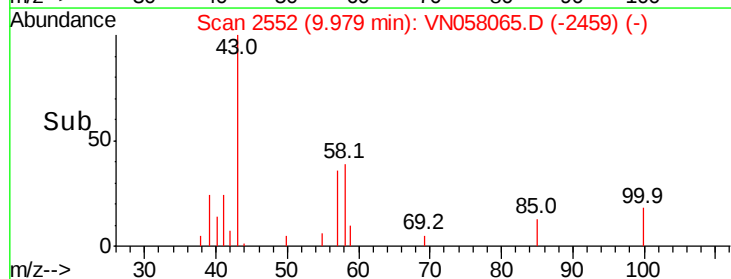
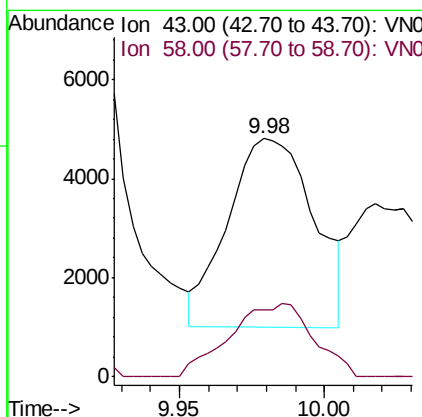
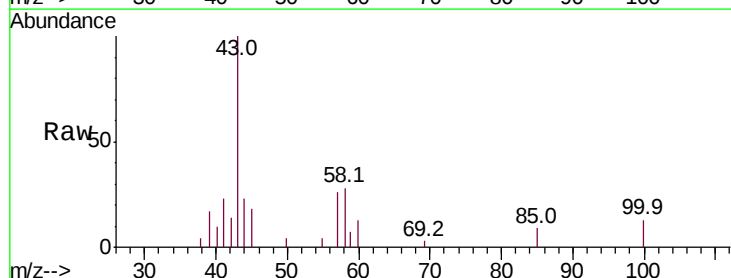
Instrument :
MSVOA_N
ClientSampleId :

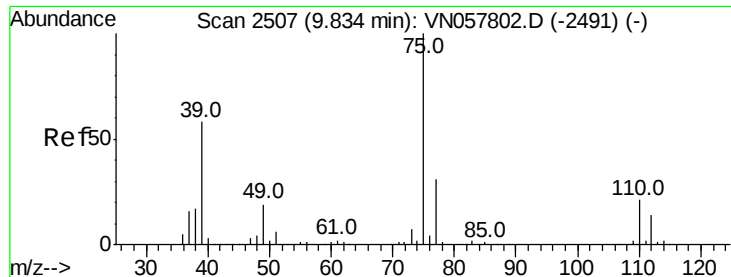
Tot Ion: 98 Resp: 1066616
Ion Ratio Lower Upper
98 100
100 63.8 50.3 75.5



#51
4-Methyl-2-Pentanone
Concen: 1.133 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. 0.00 min
Lab File: VN058065.D
Acq: 14 Sep 2019 10:23

Tgt Ion: 43 Resp: 7828
Ion Ratio Lower Upper
43 100
58 37.9 29.8 44.6



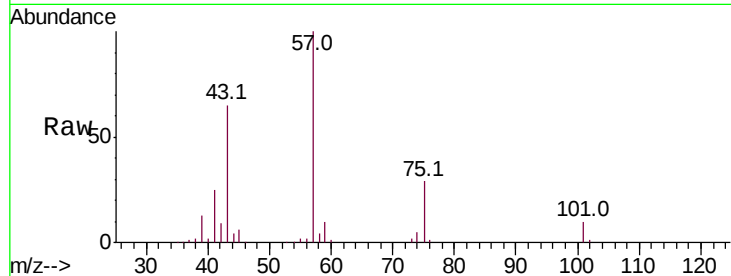


#54

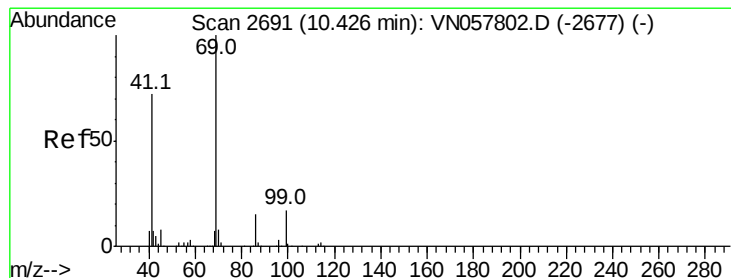
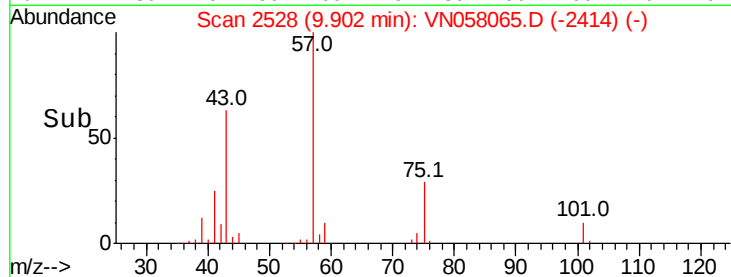
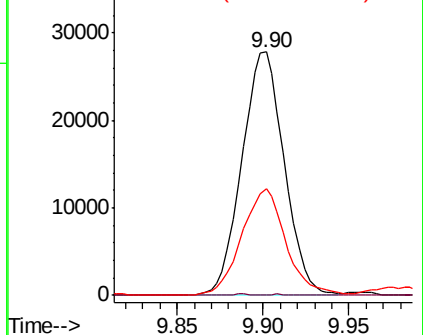
cis-1,3-Dichloropropene
 Concen: 5.754 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058065.D
 Acq: 14 Sep 2019 10:23

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 47510
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 43.7 46.2 69.4#



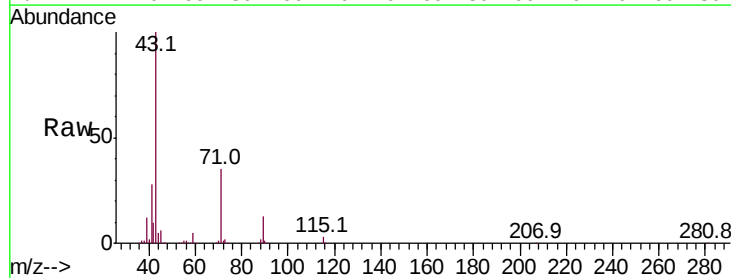
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



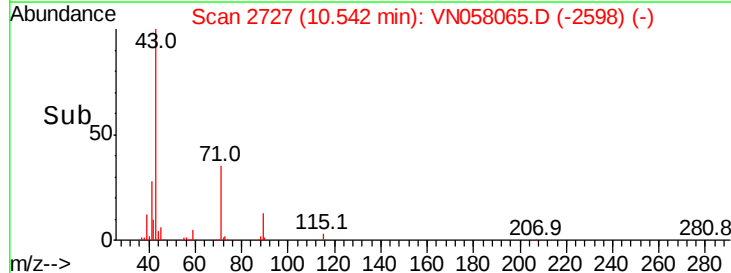
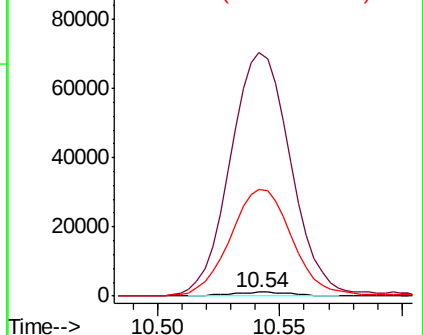
#56

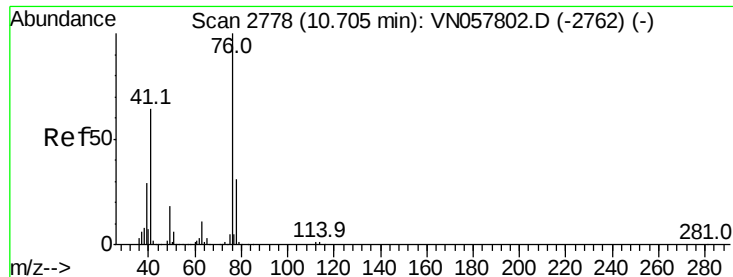
Ethyl methacrylate
 Concen: 0.245 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN058065.D
 Acq: 14 Sep 2019 10:23

Tgt Ion: 69 Resp: 1991
 Ion Ratio Lower Upper
 69 100
 41 6112.4 56.7 85.1#
 39 2723.0 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: 0.812 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

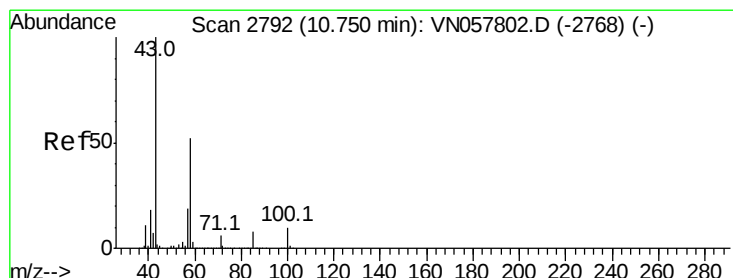
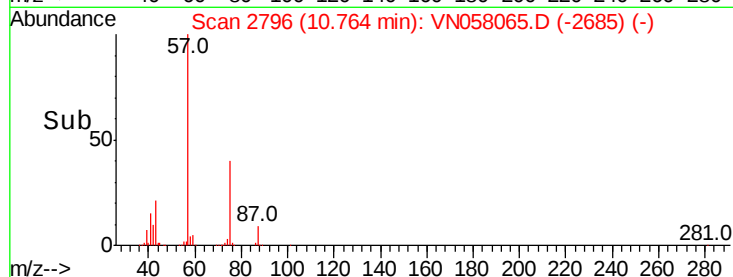
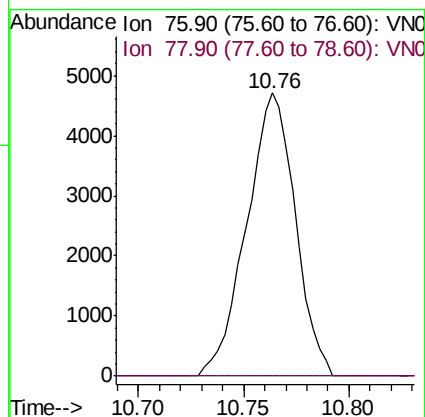
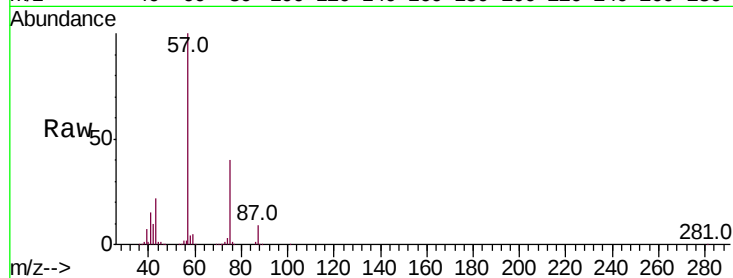
ClientSampled :

Tot Ion: 76 Resp: 7555

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 23.252 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN058065.D

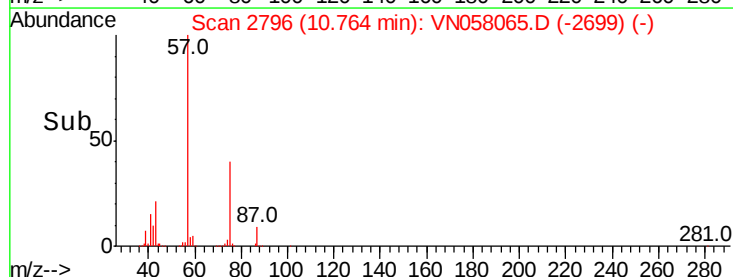
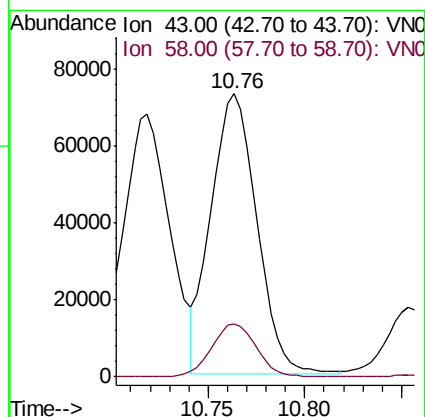
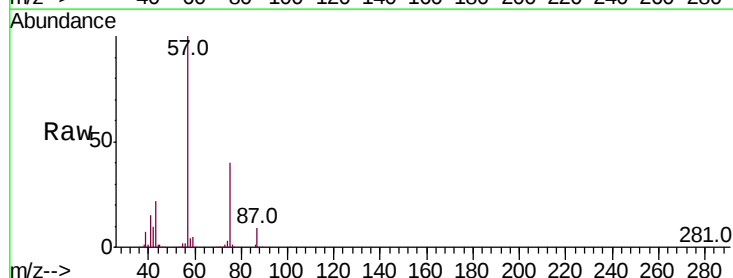
Acq: 14 Sep 2019 10:23

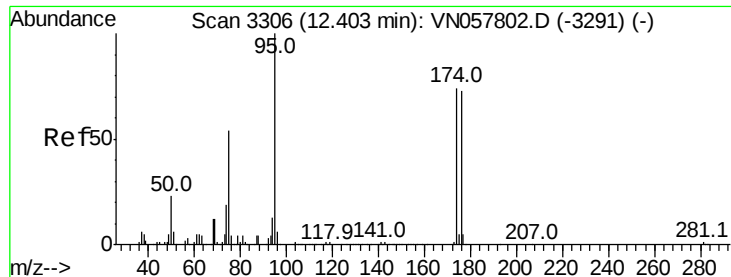
Tgt Ion: 43 Resp: 120377

Ion Ratio Lower Upper

43 100

58 18.6 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 45.173 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampled :

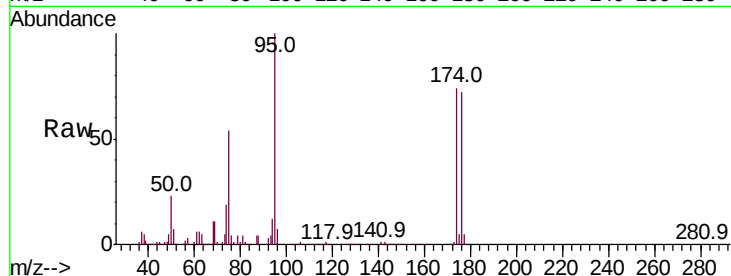
Tot Ion: 95 Resp: 357331

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

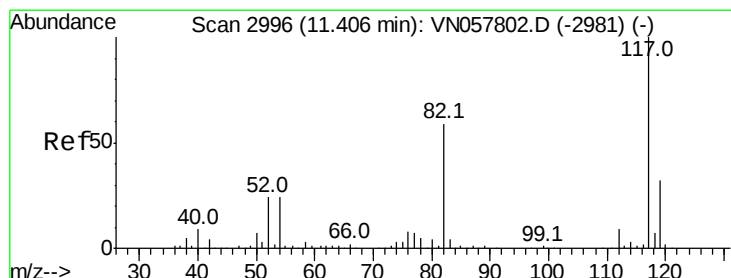
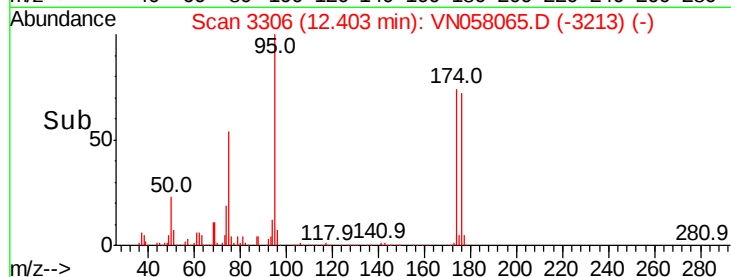
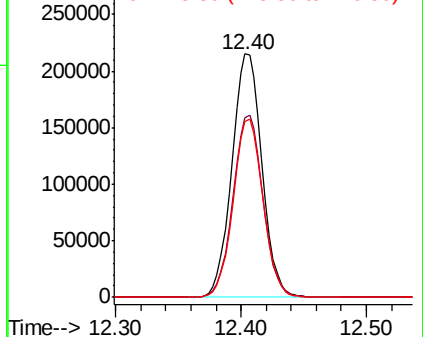
176 72.6 0.0 146.0



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# 2997

Delta R.T. 0.00 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

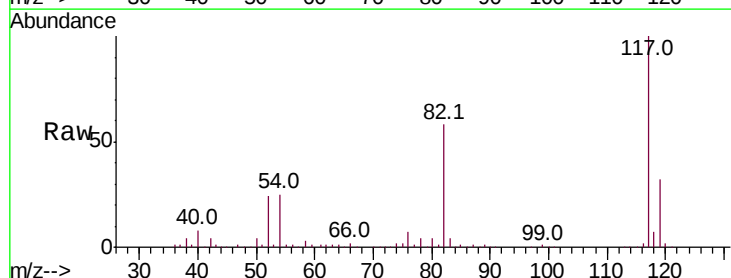
Tgt Ion: 117 Resp: 531711

Ion Ratio Lower Upper

117 100

82 57.7 47.2 70.8

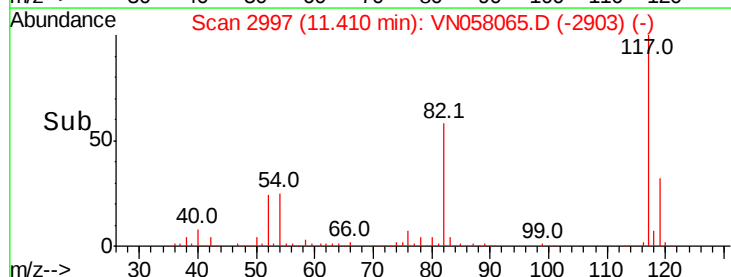
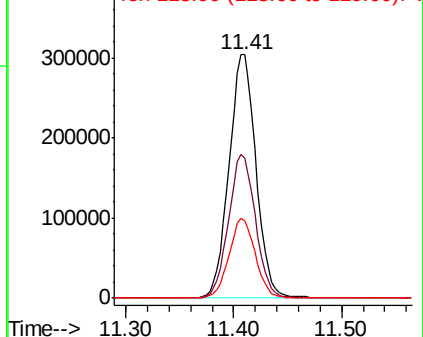
119 31.9 25.3 37.9

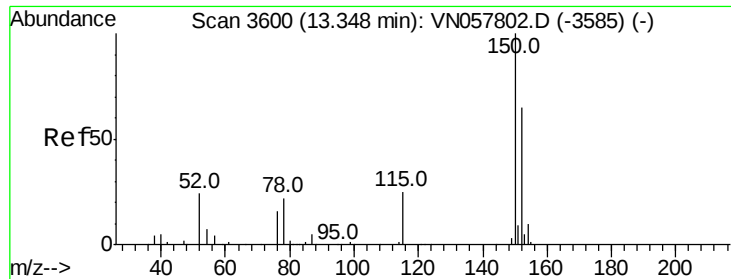


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

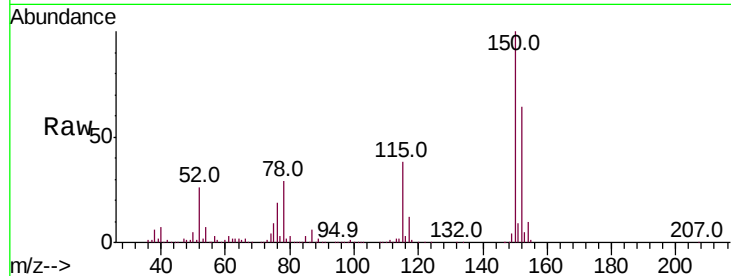
Tot Ion:152 Resp: 282655

Ion Ratio Lower Upper

152 100

115 60.1 30.3 91.0

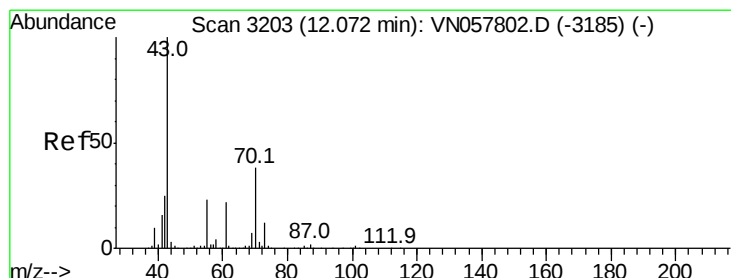
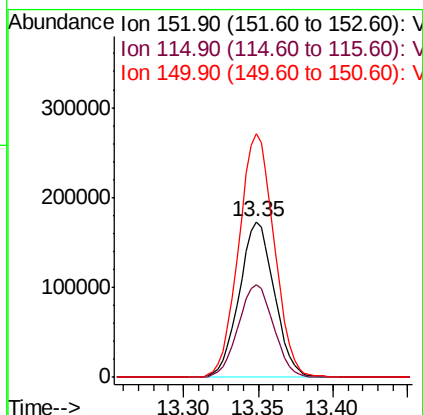
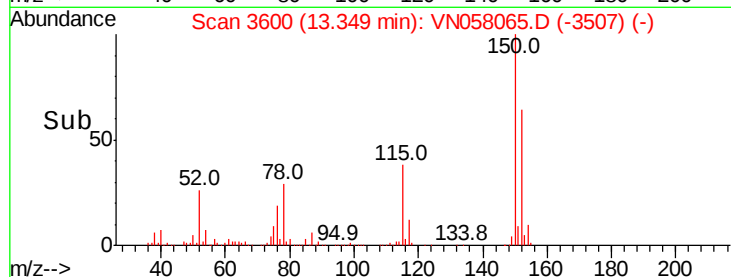
150 158.5 0.0 352.4



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: 0.590 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Tgt Ion: 43 Resp: 5629

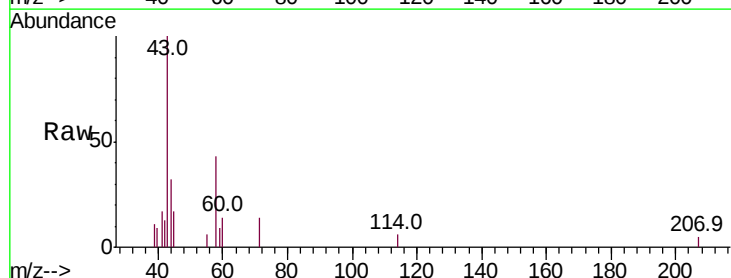
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.4 18.6 27.8#

61 0.0 17.4 26.2#

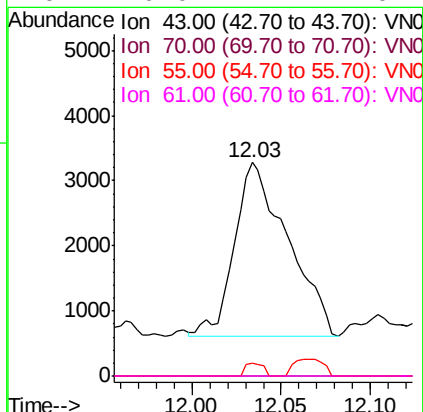
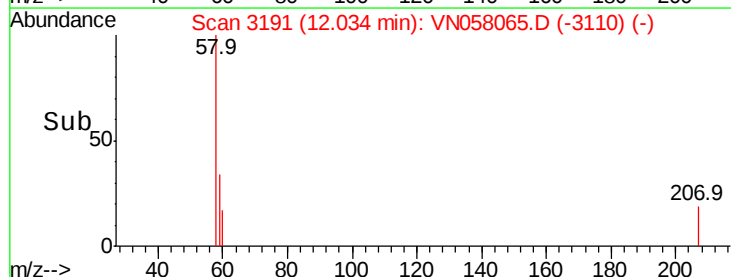


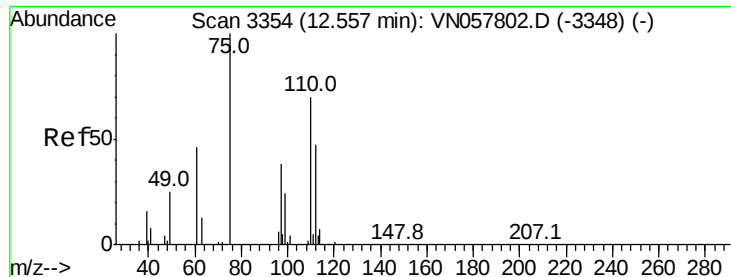
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.284 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

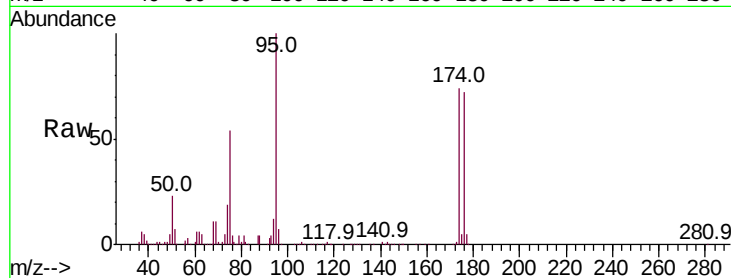
ClientSampleId :

Tot Ion: 75 Resp: 193638

Ion Ratio Lower Upper

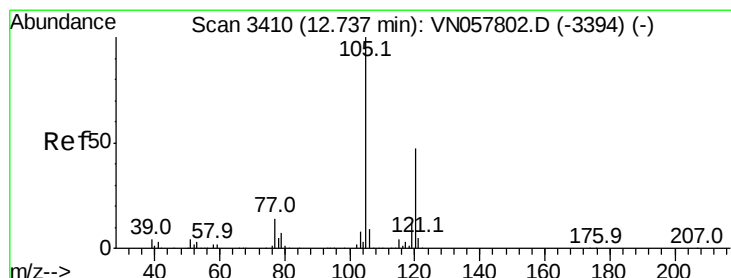
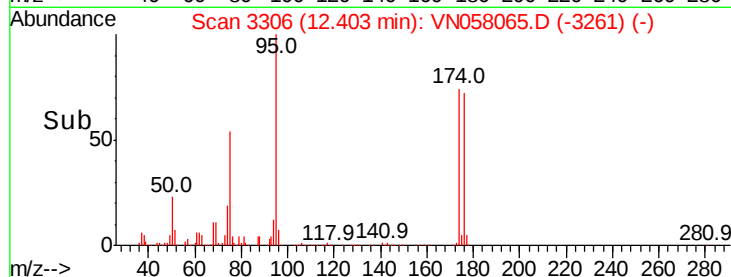
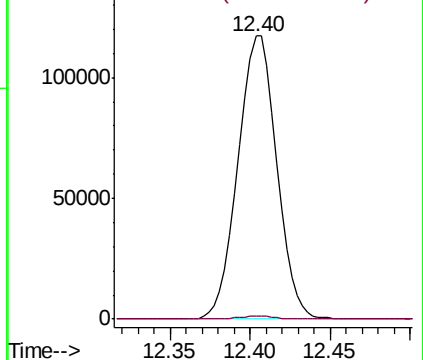
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.333 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058065.D

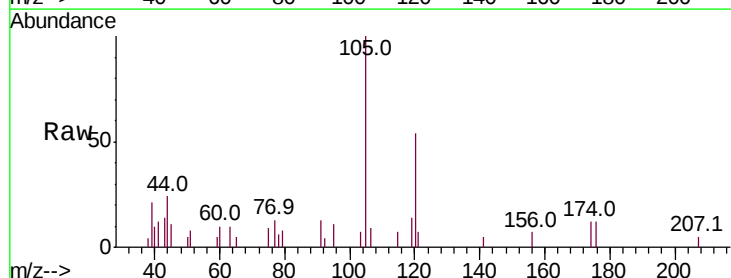
Acq: 14 Sep 2019 10:23

Tgt Ion:105 Resp: 6167

Ion Ratio Lower Upper

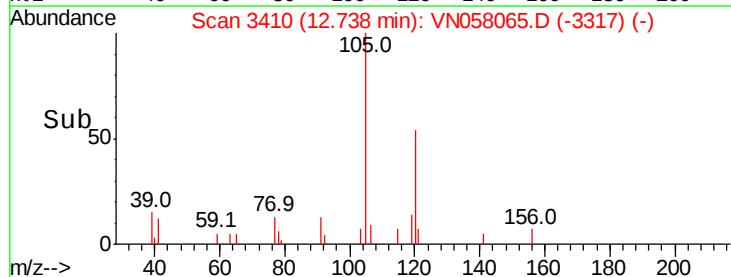
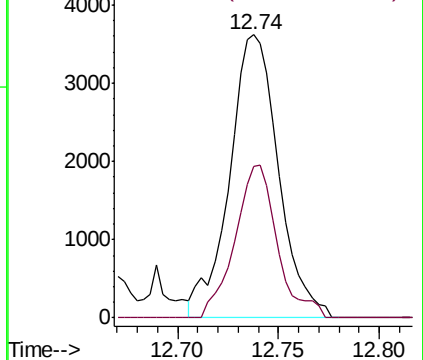
105 100

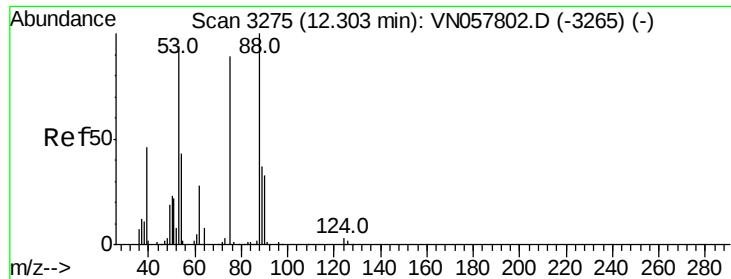
120 46.4 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 106.569 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

Instrument :

MSVOA_N

ClientSampleId :

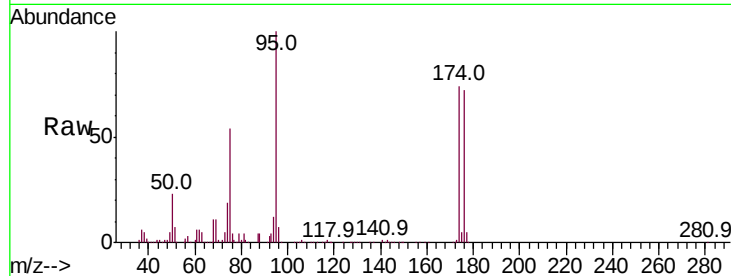
Tot Ion: 75 Resp: 193638

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

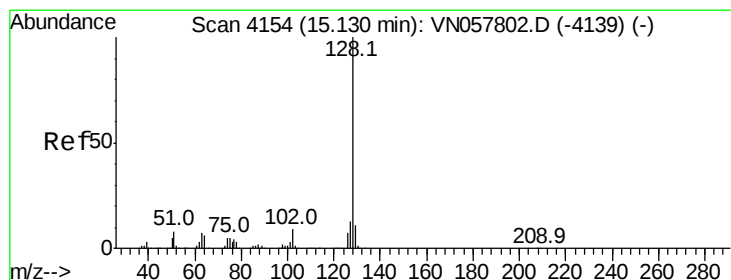
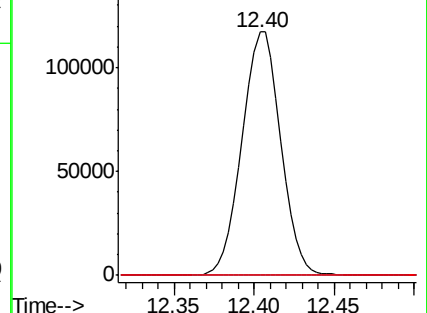
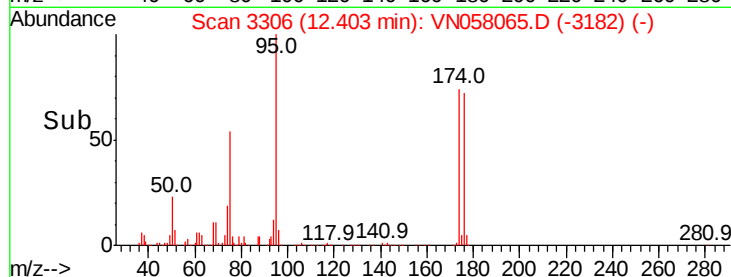
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN057802.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN057802.D (-3265) (-)



#95

Naphthalene

Concen: 4.285 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058065.D

Acq: 14 Sep 2019 10:23

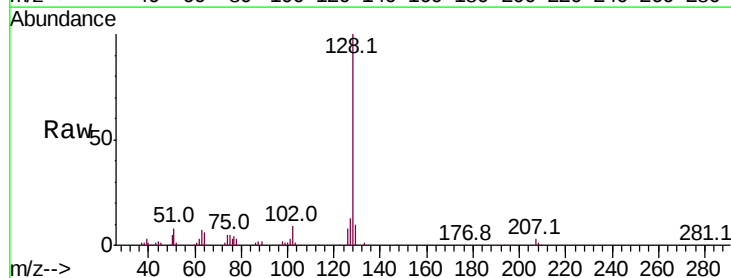
Tgt Ion: 128 Resp: 94671

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN057802.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN057802.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN057802.D (-4139) (-)

