

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057811.D
 Acq On : 9 Sep 2019 19:29
 Operator : JC/SP
 Sample : K4751-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:09:43 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	301878	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	504532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	449065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	223494	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	325555	53.24	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.58	113	222942	47.88	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.09	98	903597	49.98	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	282769	41.04	ug/l	0.00
Spiked Amount						

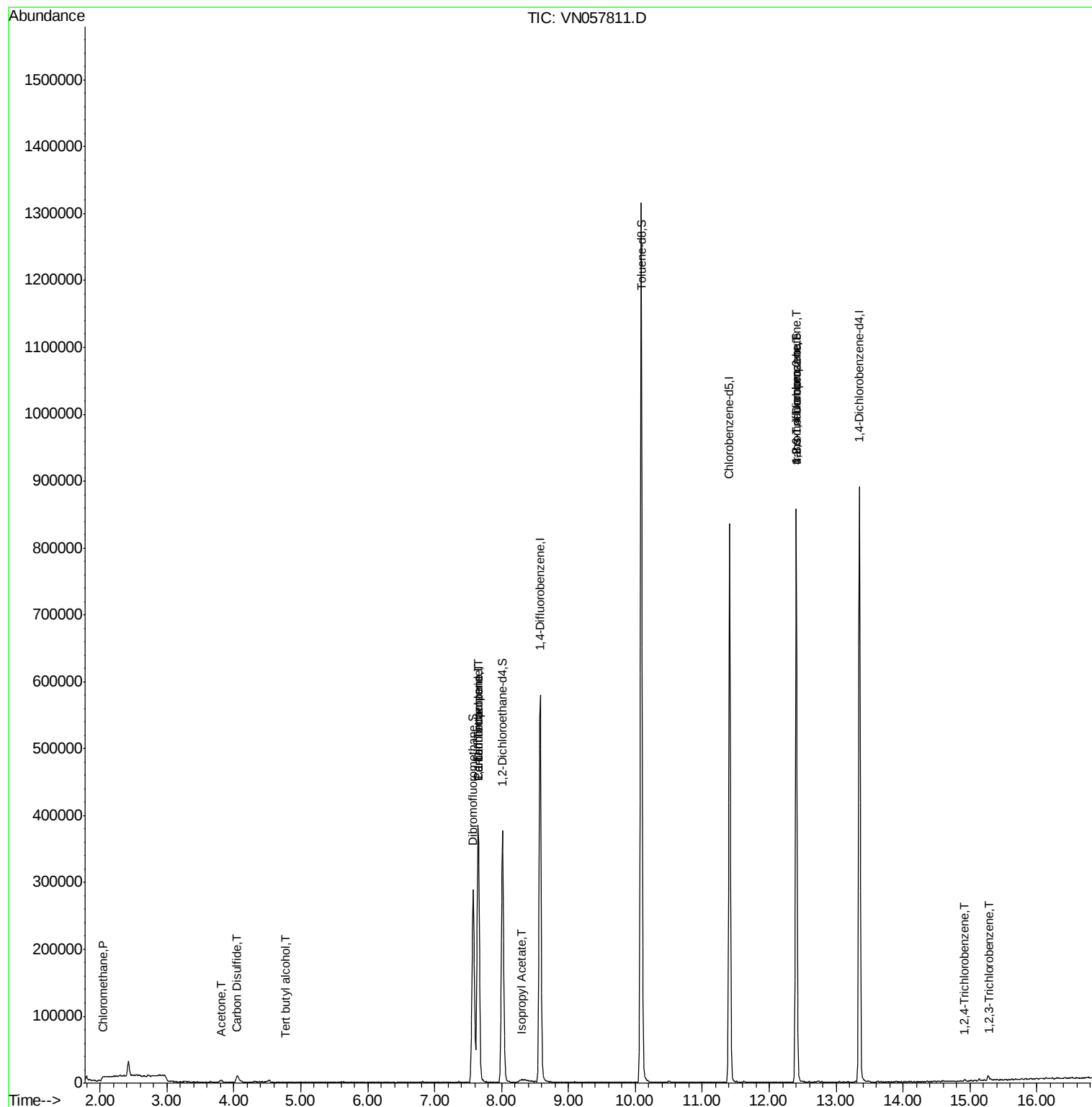
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1184	0.278	ug/l	96
5) Bromomethane	2.55	94	558	Below Cal	#	55
11) Tert butyl alcohol	4.77	59	310	0.419	ug/l #	71
16) Acetone	3.81	43	5111	2.550	ug/l #	86
17) Carbon Disulfide	4.03	76	1072	0.372	ug/l #	75
20) Methylene Chloride	4.53	84	1309	Below Cal	#	44
31) Cyclohexane	7.65	56	8479	Below Cal	#	19
36) 1,1-Dichloropropene	7.65	75	25934	4.432	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31356	5.870	ug/l #	16
43) Isopropyl Acetate	8.31	43	5382	0.529	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	154863	30.631	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	154863	107.790	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	1042	0.201	ug/l #	48
95) Naphthalene	15.14	128	3083	Below Cal	#	90
96) 1,2,3-Trichlorobenzene	15.29	180	851	1.183	ug/l	91

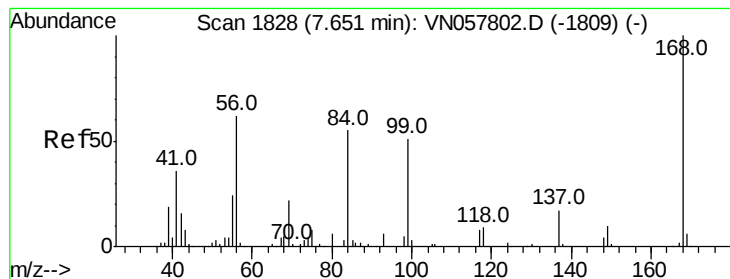
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

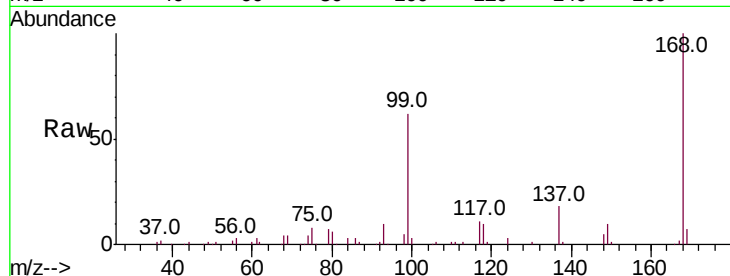
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 301878

Ion Ratio Lower Upper

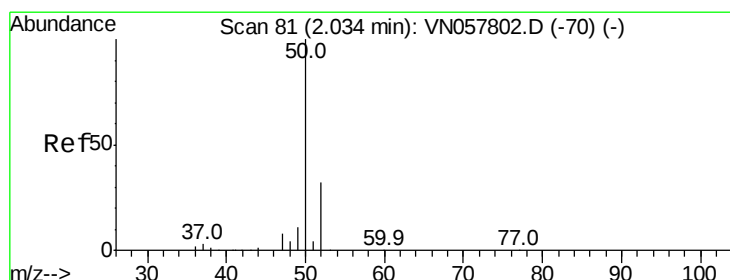
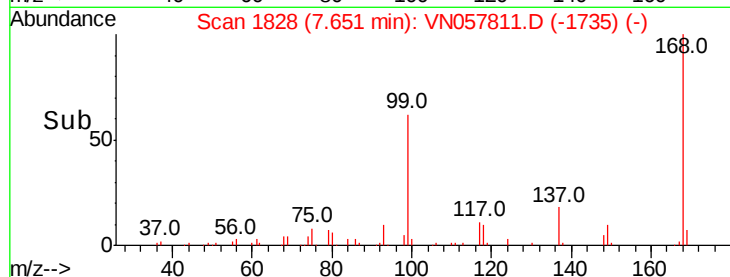
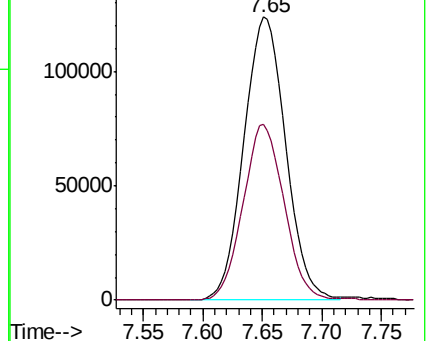
168 100

99 62.0 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.278 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN057811.D

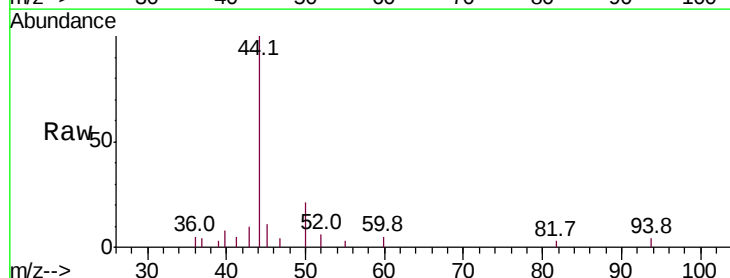
Acq: 9 Sep 2019 19:29

Tgt Ion: 50 Resp: 1184

Ion Ratio Lower Upper

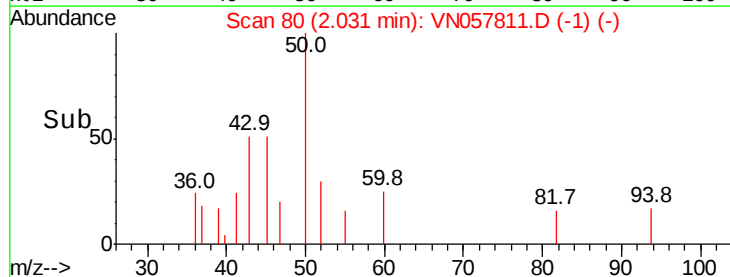
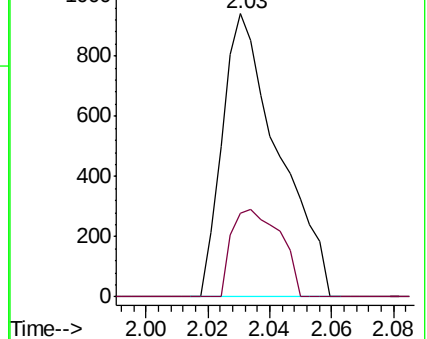
50 100

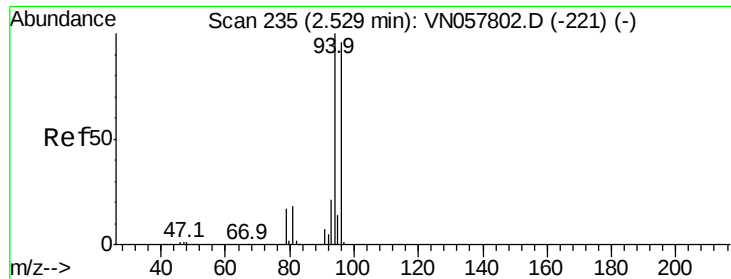
52 29.6 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

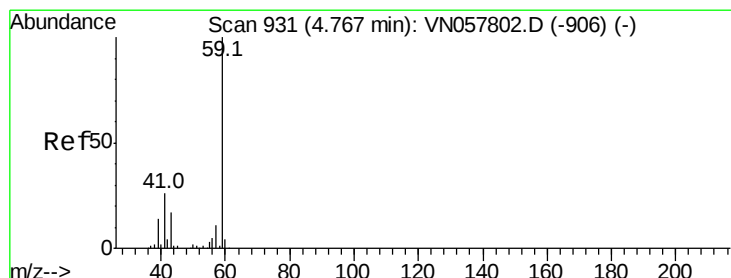
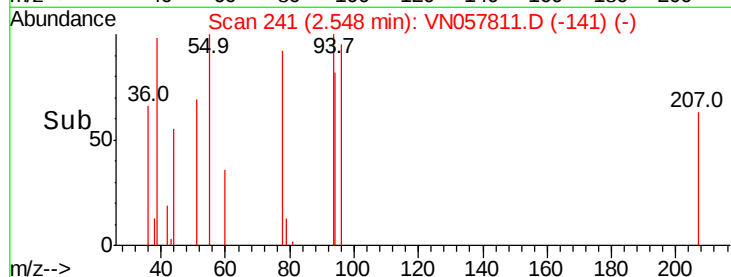
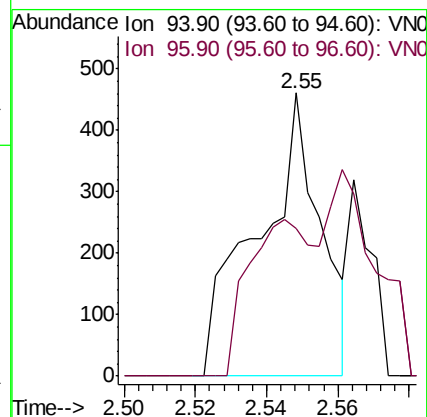
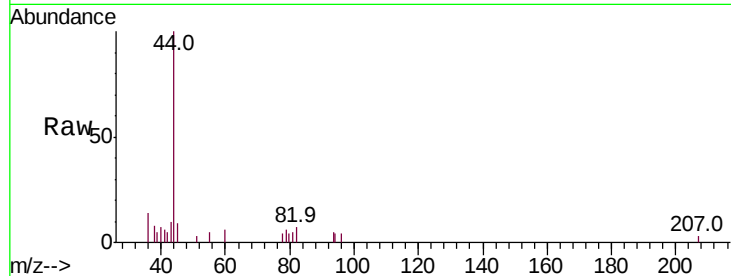
ClientSampled :

Tot Ion: 94 Resp: 558

Ion Ratio Lower Upper

94 100

96 52.1 77.0 115.4#



#11

Tert butyl alcohol

Concen: 0.419 ug/l

RT: 4.77 min Scan# 932

Delta R.T. 0.00 min

Lab File: VN057811.D

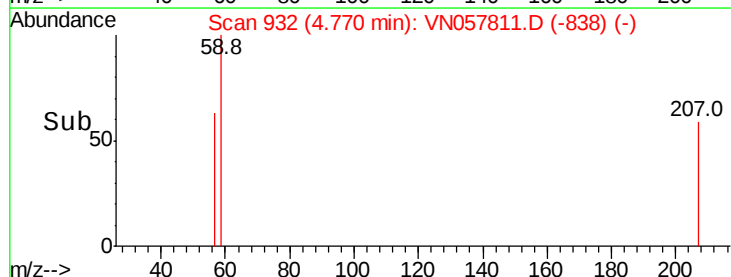
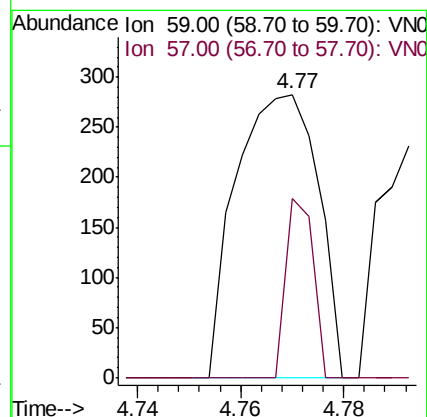
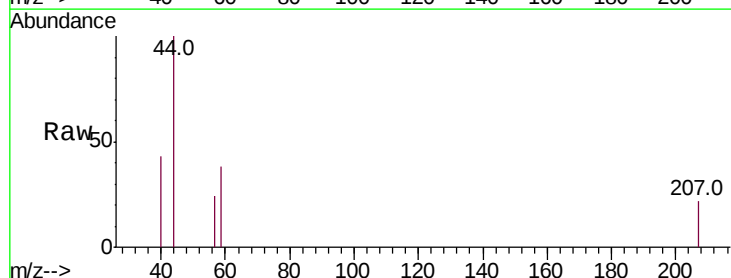
Acq: 9 Sep 2019 19:29

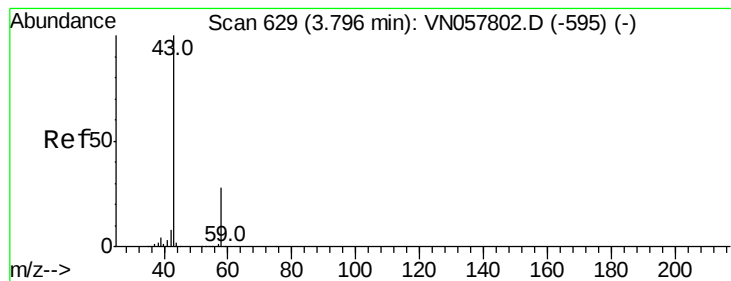
Tgt Ion: 59 Resp: 310

Ion Ratio Lower Upper

59 100

57 21.3 8.4 12.6#





#16

Acetone

Concen: 2.550 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

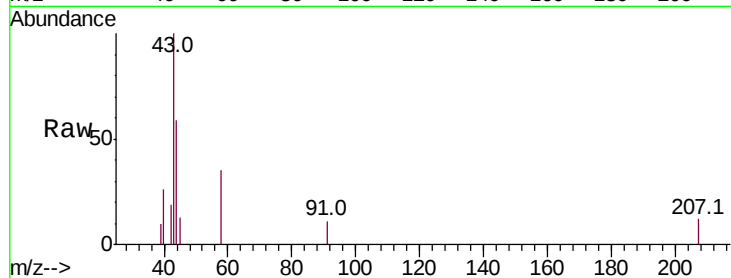
ClientSampleId :

Tot Ion: 43 Resp: 5111

Ion Ratio Lower Upper

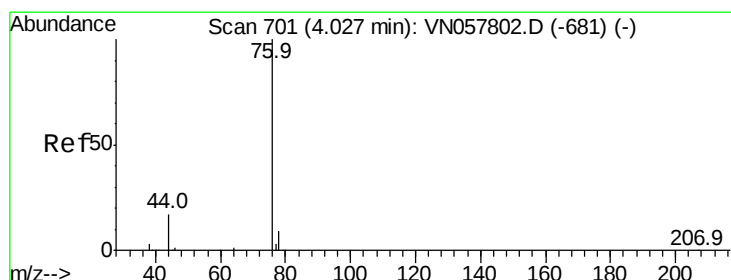
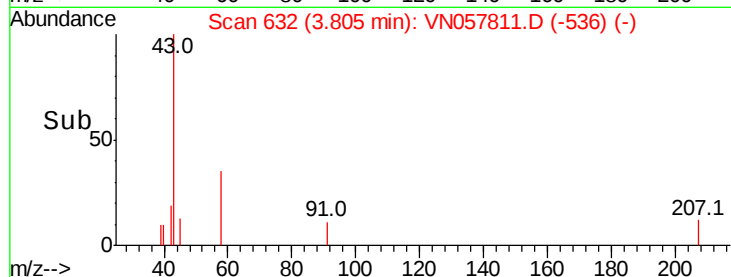
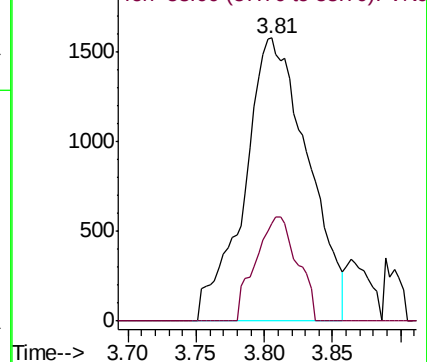
43 100

58 34.8 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.372 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN057811.D

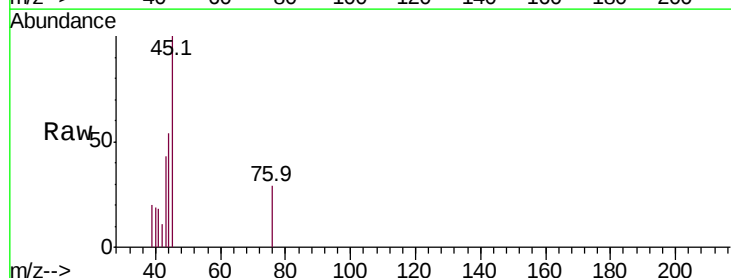
Acq: 9 Sep 2019 19:29

Tgt Ion: 76 Resp: 1072

Ion Ratio Lower Upper

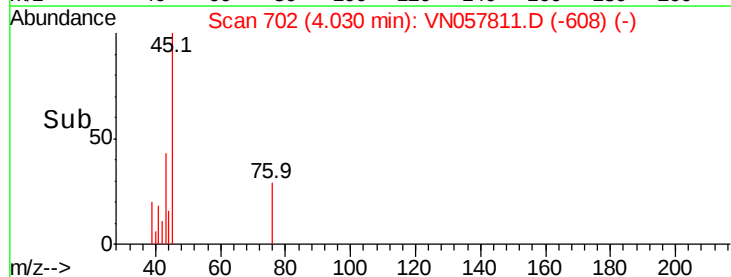
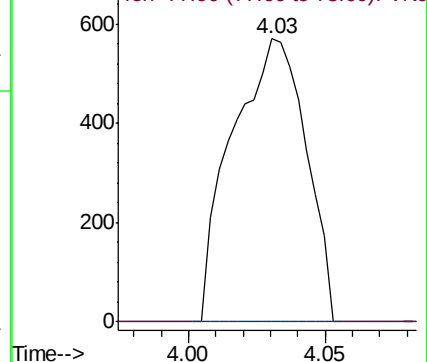
76 100

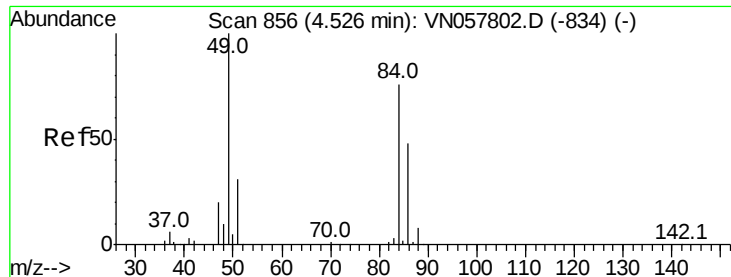
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

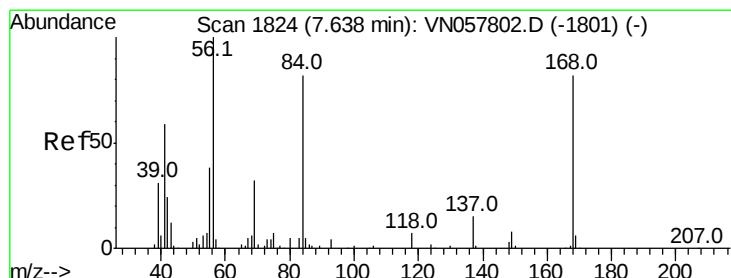
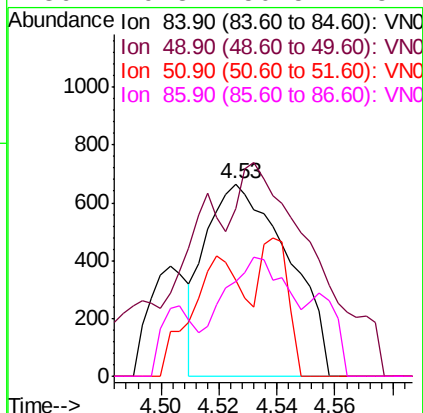
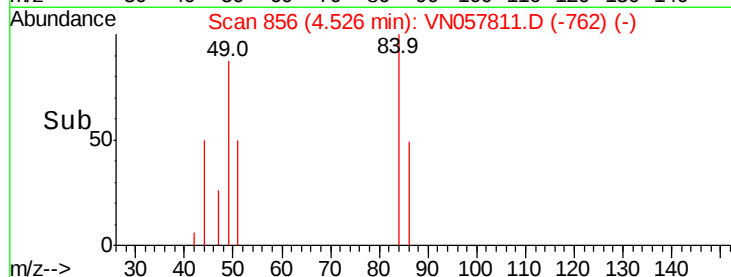
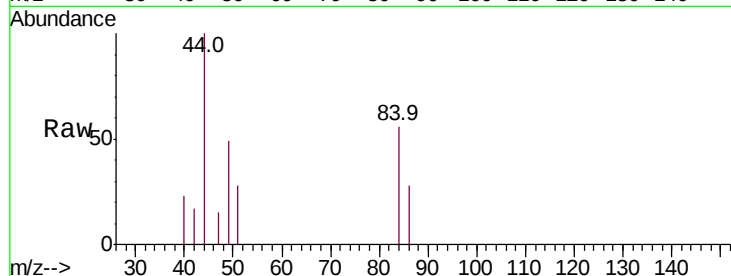
Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1309

Ion	Ratio	Lower	Upper
84	100		
49	48.9	104.8	157.2#
51	49.7	33.0	49.4#
86	19.8	50.5	75.7#



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

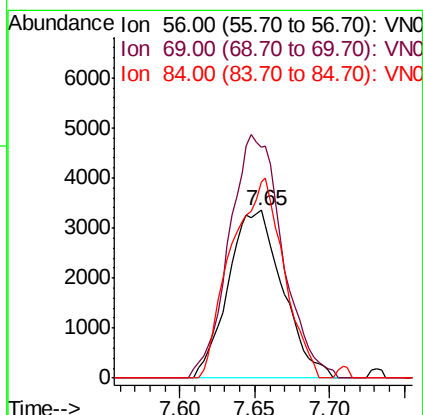
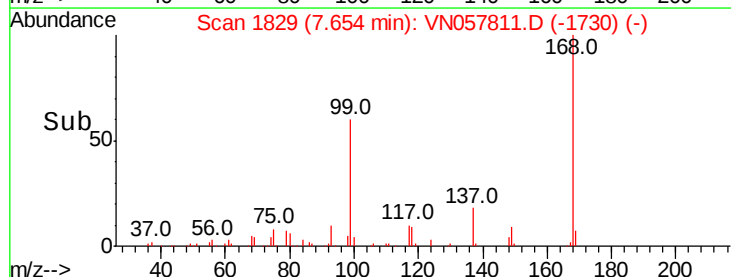
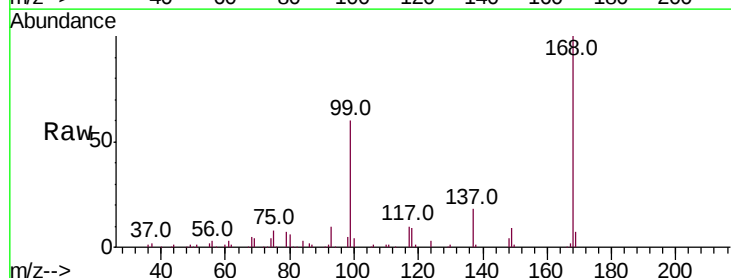
Delta R.T. 0.02 min

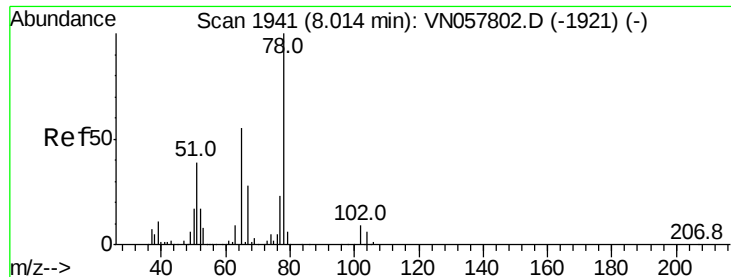
Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Tgt Ion: 56 Resp: 8479

Ion	Ratio	Lower	Upper
56	100		
69	137.8	25.9	38.9#
84	117.0	65.6	98.4#

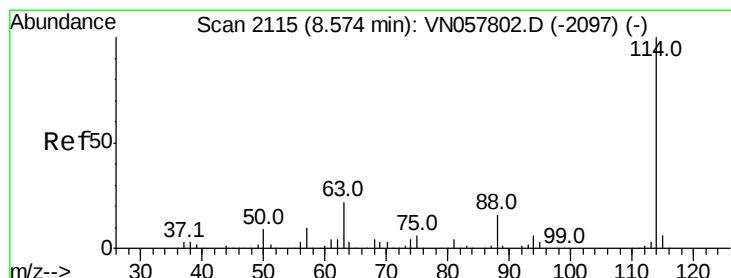
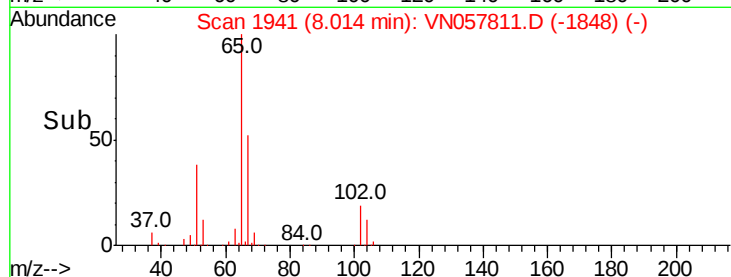
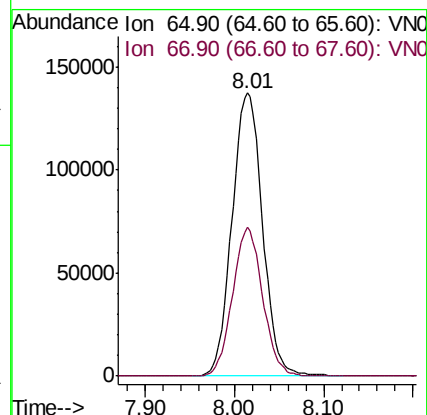
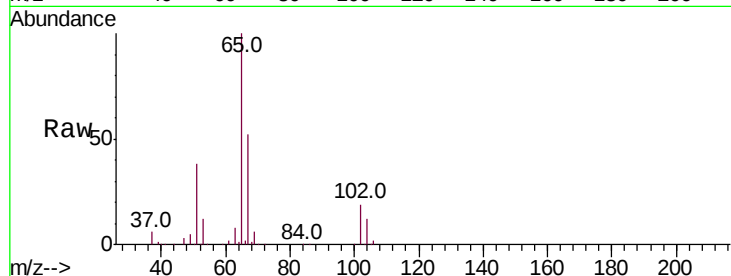




#33
 1,2-Dichloroethane-d4
 Concen: 53.245 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057811.D
 Acq: 9 Sep 2019 19:29

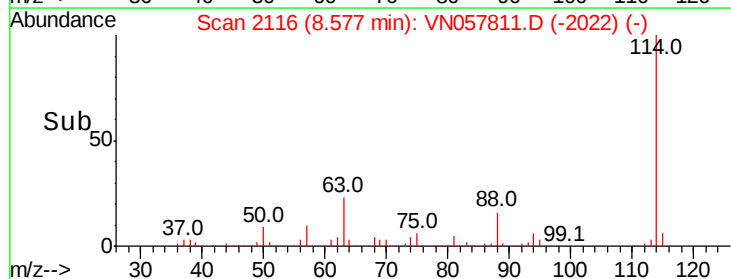
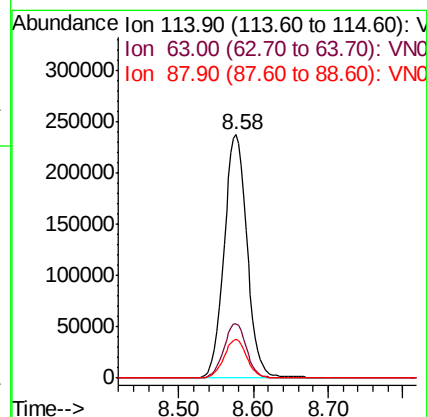
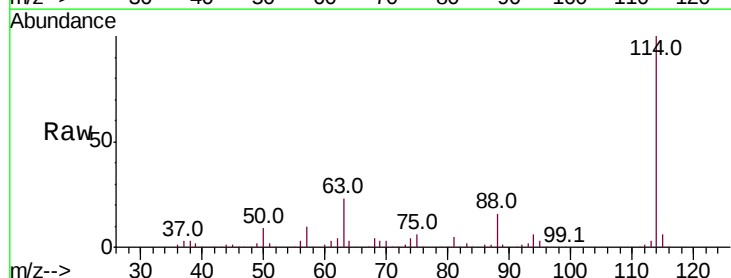
Instrument :
 MSVOA_N
 ClientSampleId :

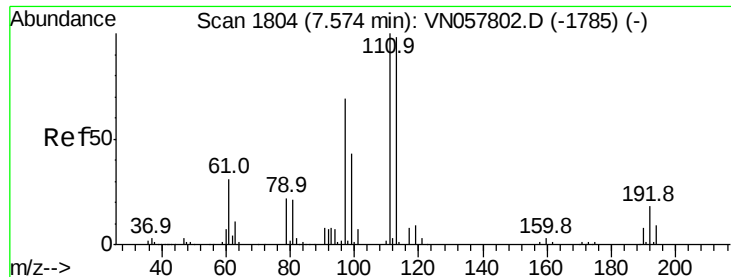
Tot Ion: 65 Resp: 32555
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057811.D
 Acq: 9 Sep 2019 19:29

Tgt Ion: 114 Resp: 504532
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.0
 88 15.8 0.0 31.4

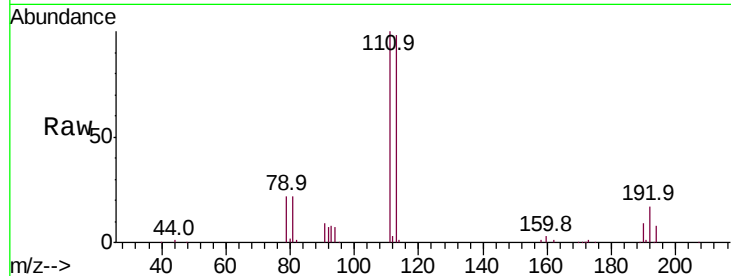




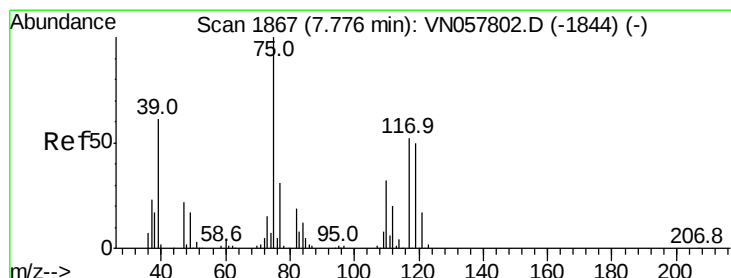
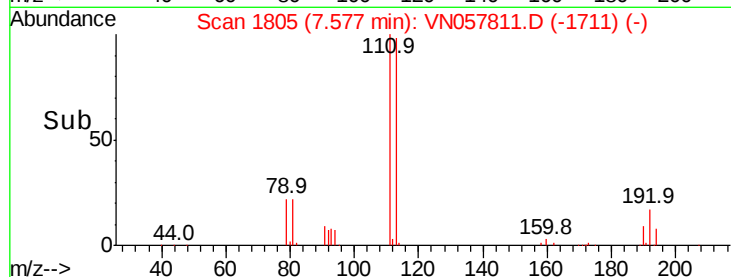
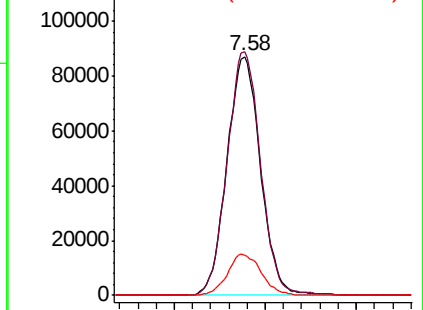
#35
 Dibromofluoromethane
 Concen: 47.876 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057811.D
 Acq: 9 Sep 2019 19:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.3	121.9
192	17.5	14.6	22.0

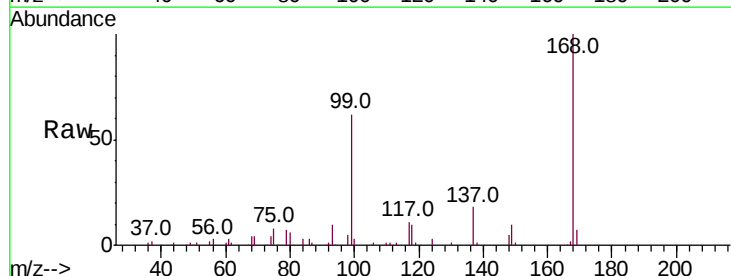


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

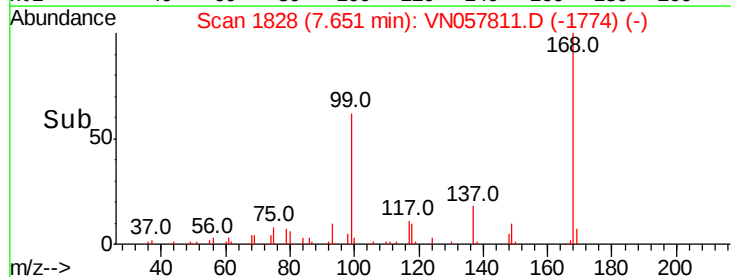
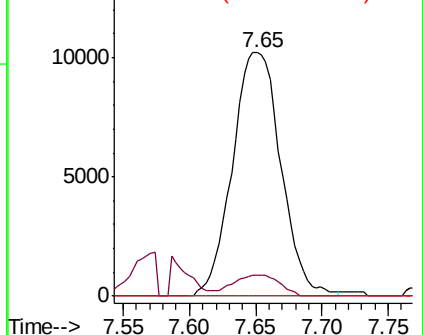


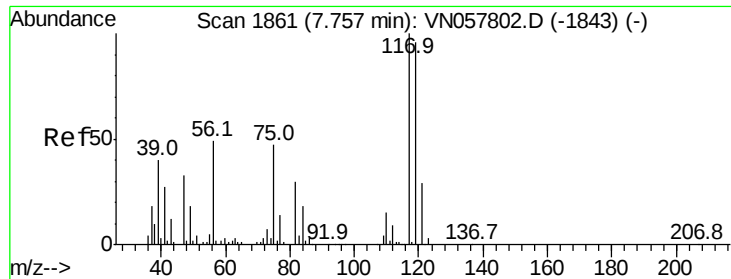
#36
 1,1-Dichloropropene
 Concen: 4.432 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057811.D
 Acq: 9 Sep 2019 19:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	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: 5.870 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :
MSVOA_N
ClientSampled :

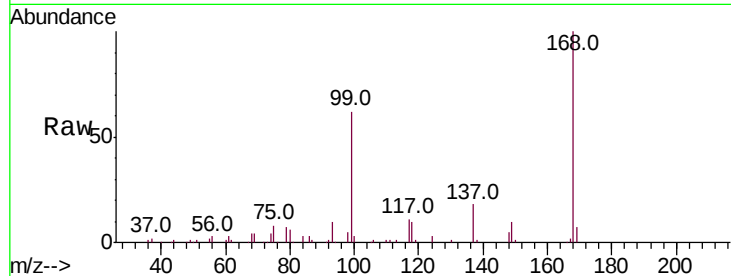
Tot Ion:117 Resp: 31356

Ion Ratio Lower Upper

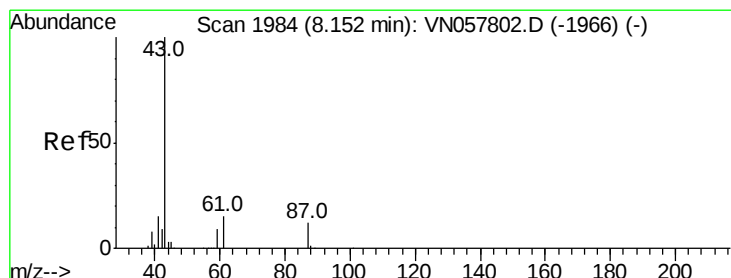
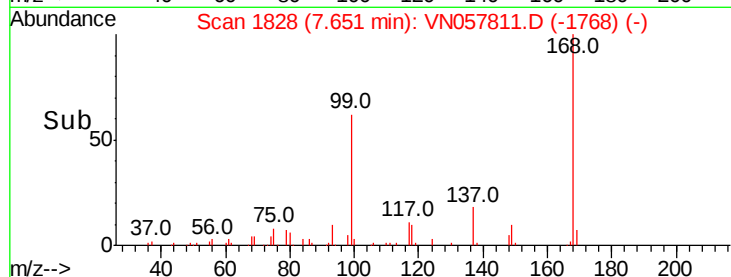
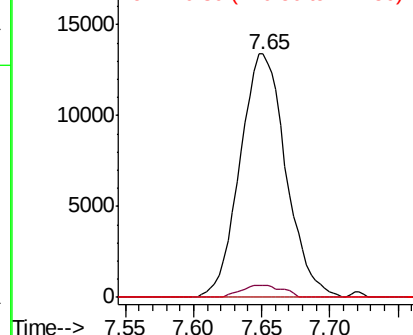
117 100

119 4.9 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: 0.529 ug/l

RT: 8.31 min Scan# 2033

Delta R.T. 0.16 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

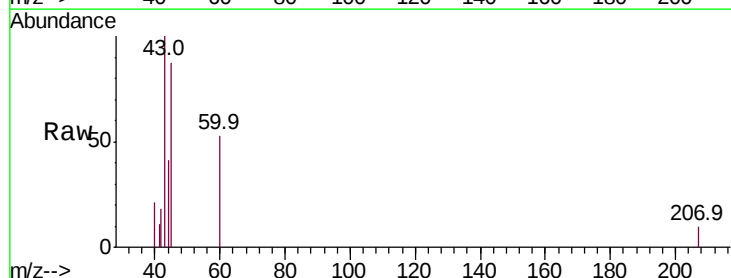
Tgt Ion: 43 Resp: 5382

Ion Ratio Lower Upper

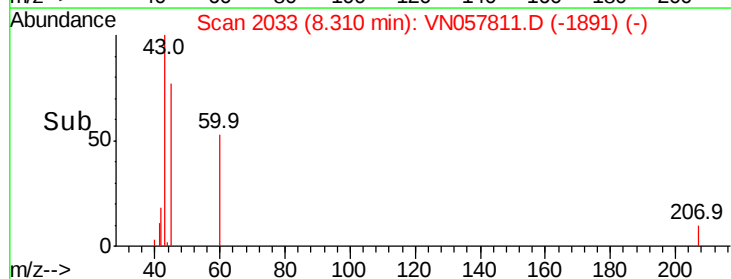
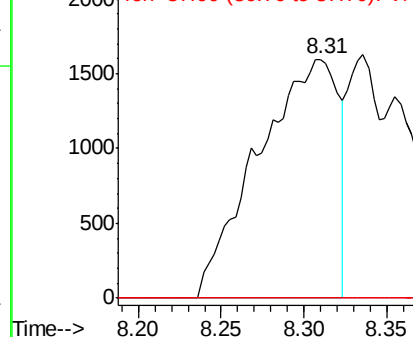
43 100

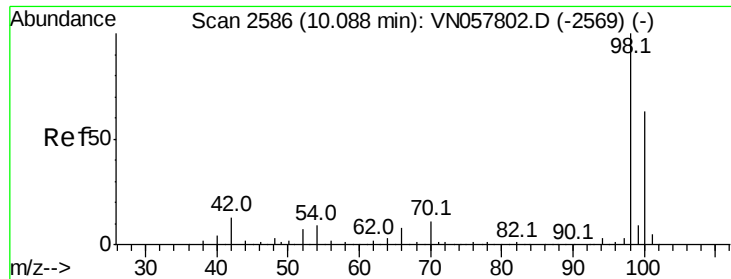
61 0.0 20.1 30.1#

87 0.0 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 49.979 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

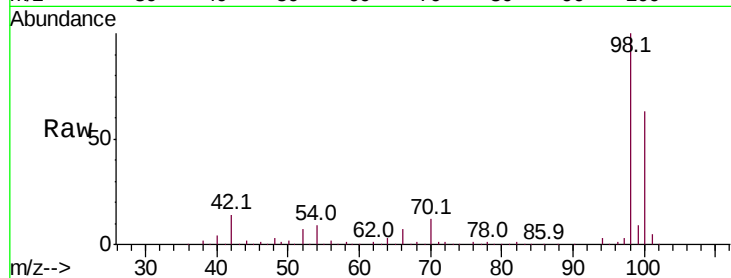
ClientSampled :

Tot Ion: 98 Resp: 903597

Ion Ratio Lower Upper

98 100

100 63.3 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

500000

400000

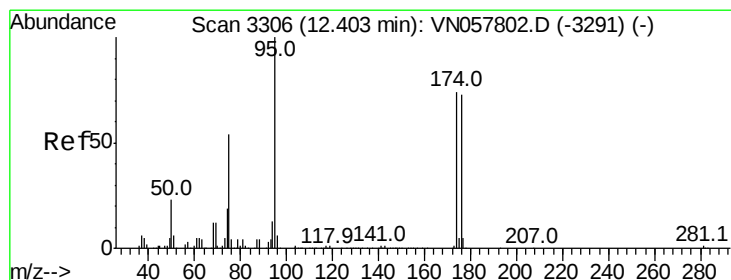
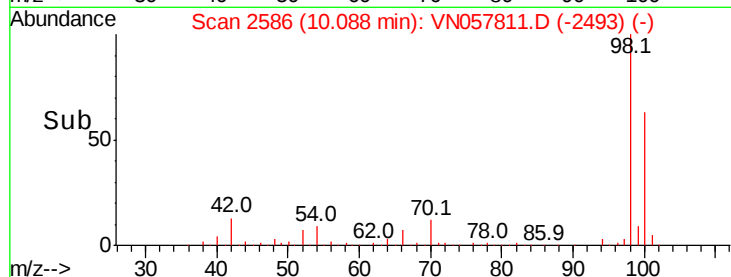
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.041 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

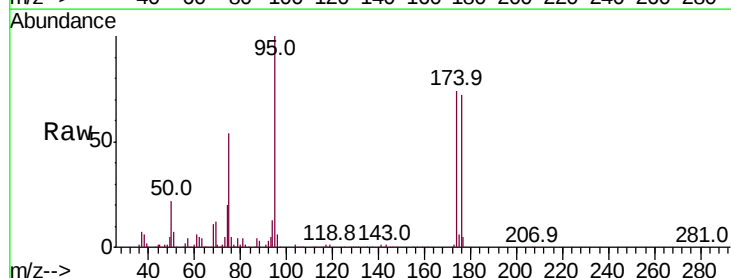
Tgt Ion: 95 Resp: 282769

Ion Ratio Lower Upper

95 100

174 75.0 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) (-)

12.40

200000

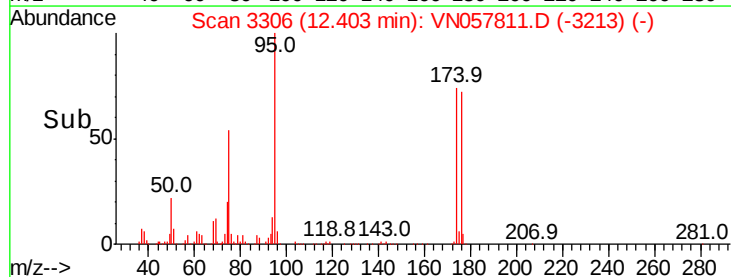
150000

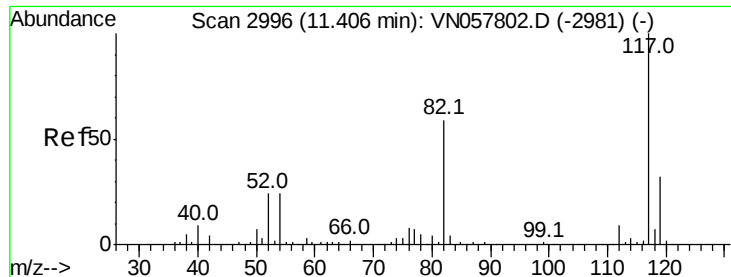
100000

50000

0

Time-->

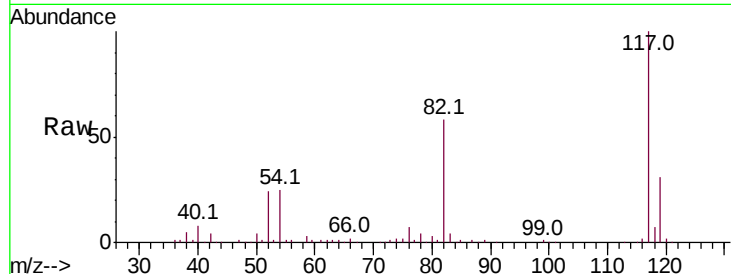




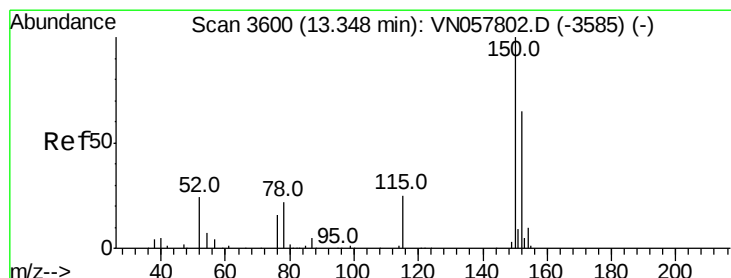
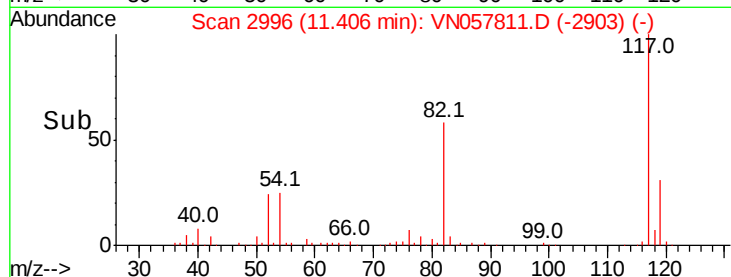
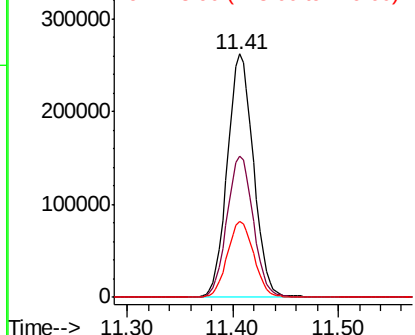
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057811.D
Acq: 9 Sep 2019 19:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 449065
Ion Ratio Lower Upper
117 100
82 58.1 47.2 70.8
119 31.2 25.3 37.9

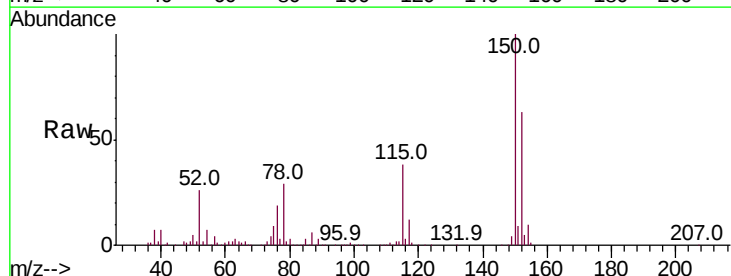


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

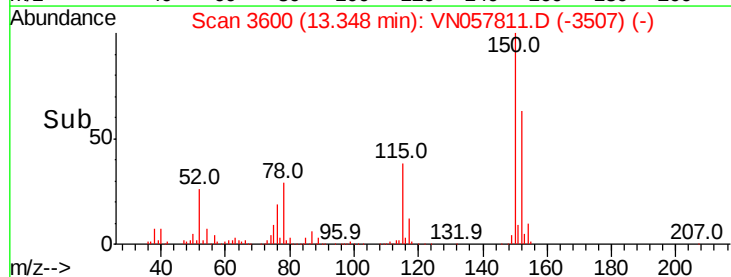
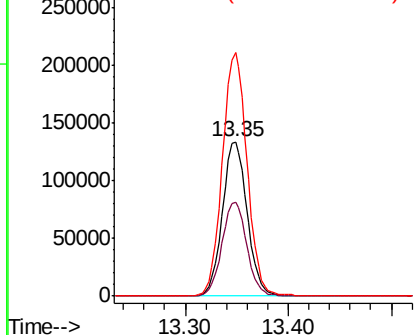


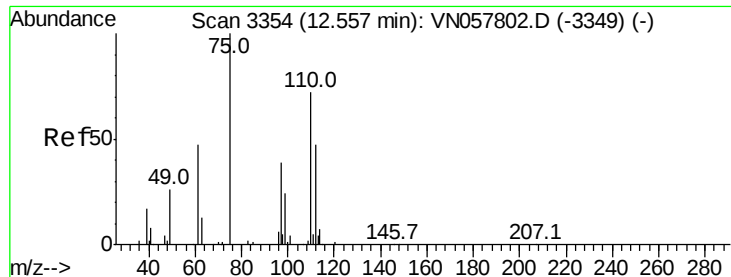
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057811.D
Acq: 9 Sep 2019 19:29

Tgt Ion:152 Resp: 223494
Ion Ratio Lower Upper
152 100
115 60.9 30.3 91.0
150 157.3 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





#76

1,2,3-Trichloropropane

Concen: 30.631 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

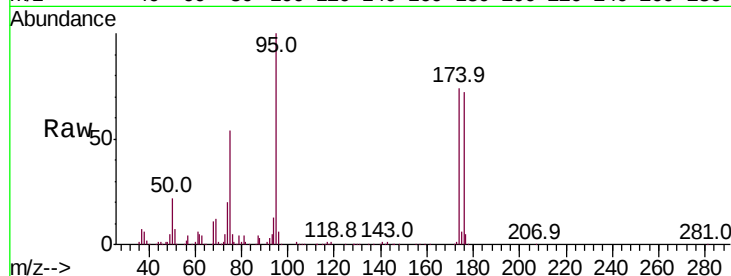
ClientSampled :

Tot Ion: 75 Resp: 154863

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

80000

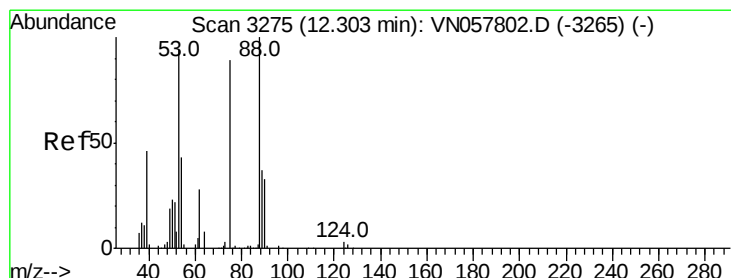
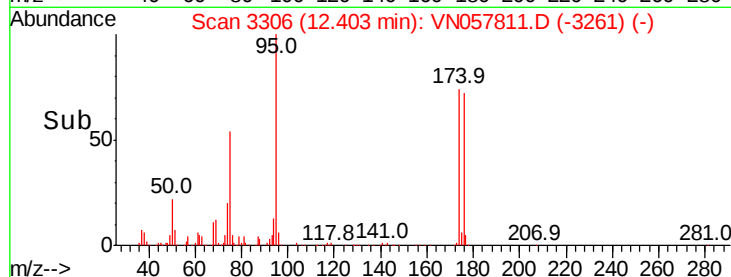
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 107.790 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

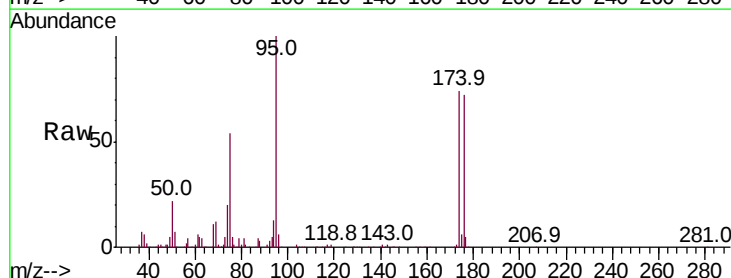
Tgt Ion: 75 Resp: 154863

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

120000

100000

80000

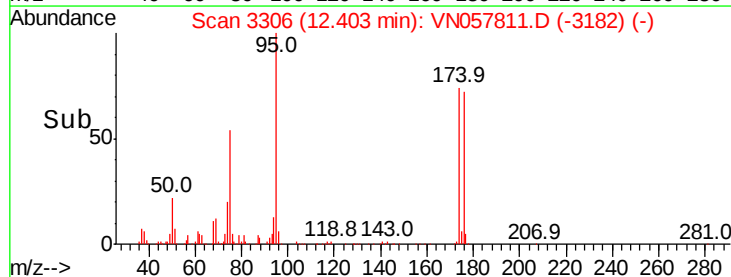
60000

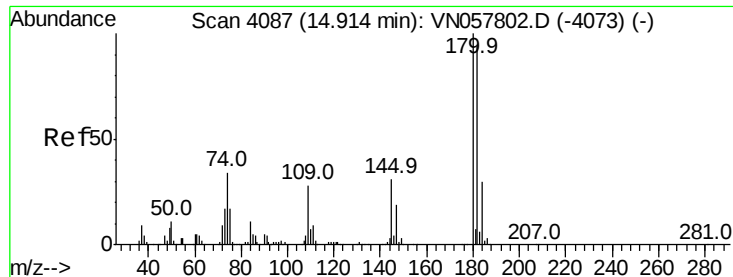
40000

20000

0

Time--> 12.30 12.40 12.50





#93

1,2,4-Trichlorobenzene

Concen: 0.201 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

ClientSampled :

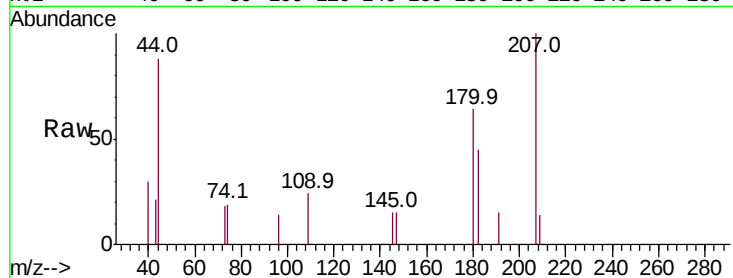
Tot Ion:180 Resp: 1042

Ion Ratio Lower Upper

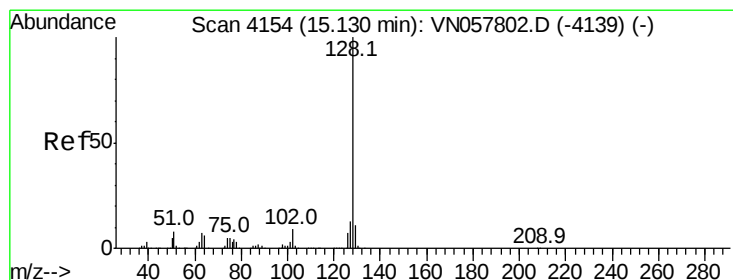
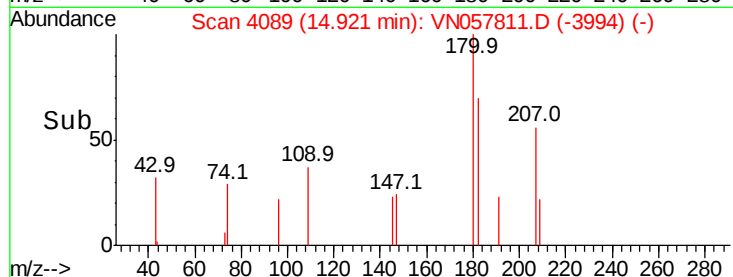
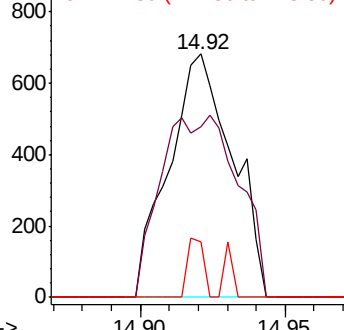
180 100

182 41.3 46.9 140.8#

145 6.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

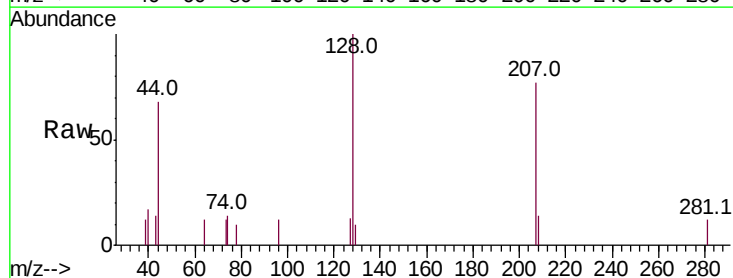
Tgt Ion:128 Resp: 3083

Ion Ratio Lower Upper

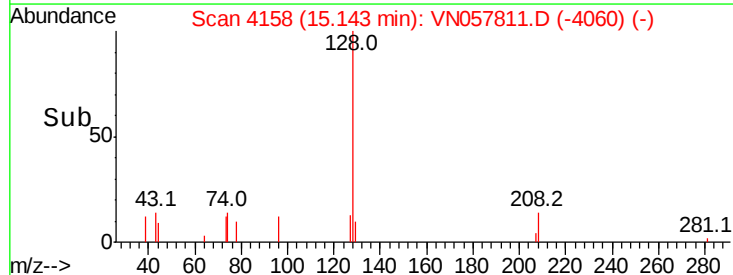
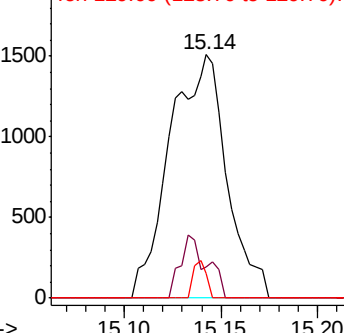
128 100

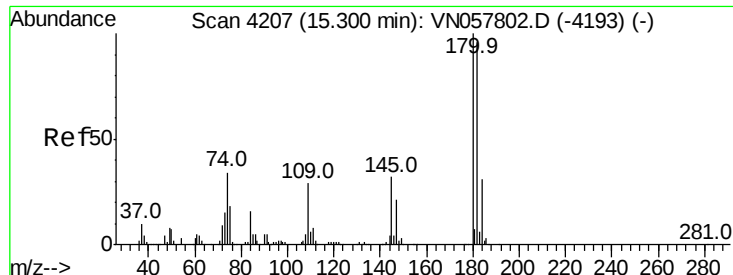
127 11.9 10.3 15.5

129 3.7 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





#96

1,2,3-Trichlorobenzene

Concen: 1.183 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.01 min

Lab File: VN057811.D

Acq: 9 Sep 2019 19:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:180 Resp: 851

Ion Ratio Lower Upper

180 100

182 100.7 48.3 144.8

145 19.0 16.3 48.8

