

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
 Data File : VN058910.D
 Acq On : 22 Oct 2019 15:46
 Operator : JC/SP
 Sample : K5490-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 23 01:21:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	55573	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	289214	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	264730	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	149276	31.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.50%
60) 4-Bromofluorobenzene	12.41	95	117165	25.30	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	84.33%
63) Toluene-d8	10.08	98	365831	29.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.57%

Target Compounds

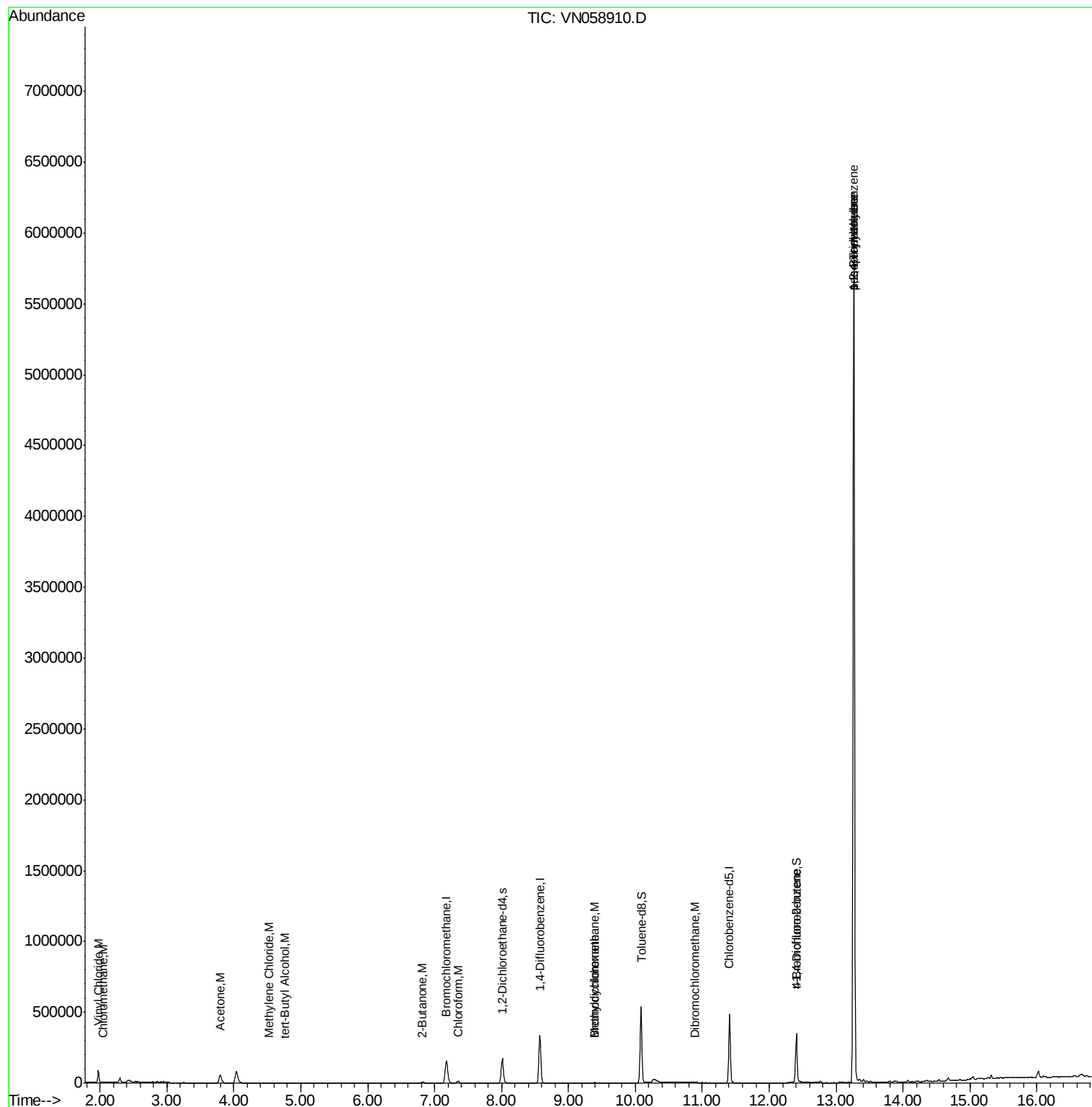
					Ovalue
3) Chloromethane	2.04	50	967	0.240 ug/l #	69
4) Vinyl Chloride	1.97	62	956	0.230 ug/l #	42
15) Acetone	3.80	58	28237	51.895 ug/l	93
18) Methylene Chloride	4.53	84	1595	0.453 ug/l #	81
23) tert-Butyl Alcohol	4.76	59	420	0.560 ug/l #	100
25) Chloroform	7.35	83	7140	1.096 ug/l	90
30) 2-Butanone	6.83	43	11353	4.413 ug/l #	89
38) Methylcyclohexane	9.40	83	1980	0.375 ug/l #	17
41) Bromodichloromethane	9.40	83	1980	0.419 ug/l #	92
53) Dibromochloromethane	10.90	129	1305	0.368 ug/l	59
77) t-1,4-Dichloro-2-butene	12.41	75	62652	34.966 ug/l #	10
80) 1,2,4-Trimethylbenzene	13.26	105	94919	7.233 ug/l	48
81) sec-Butylbenzene	13.26	105	94919	6.251 ug/l	96
82) p-Isopropyltoluene	13.26	119	55445	4.066 ug/l #	1

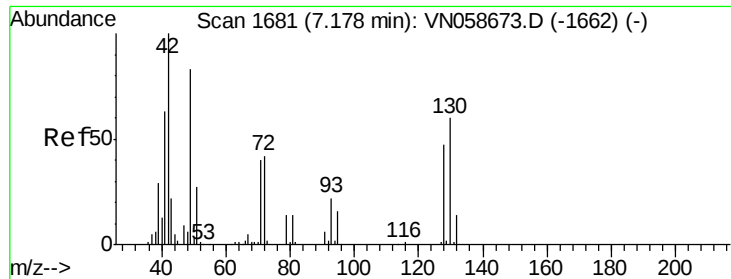
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
Data File : VN058910.D
Acq On : 22 Oct 2019 15:46
Operator : JC/SP
Sample : K5490-09
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Oct 23 01:21:59 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 11 04:26:47 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

Instrument :
MSVOA_N
ClientSampled :

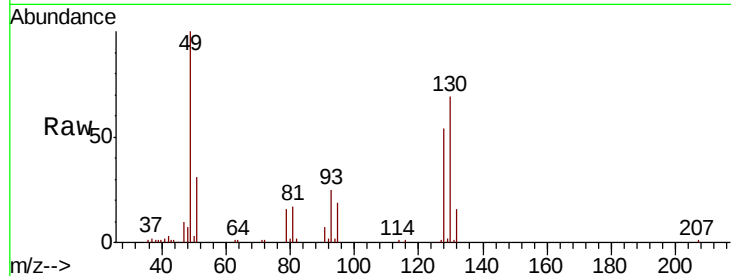
Tot Ion:128 Resp: 55573

Ion Ratio Lower Upper

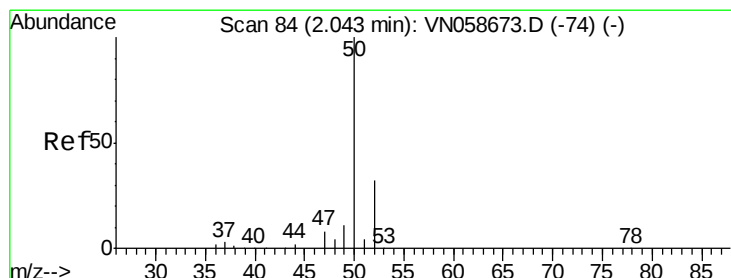
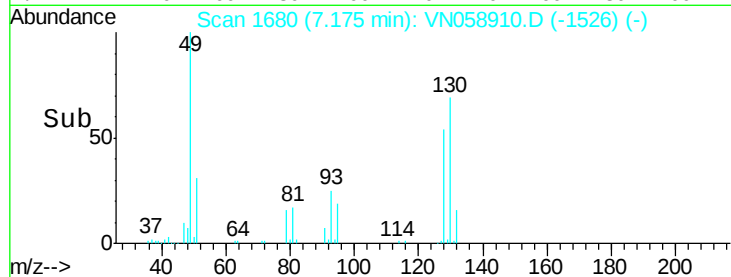
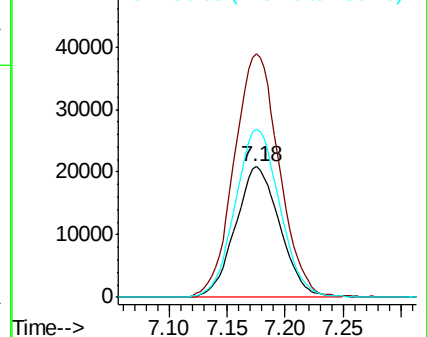
128 100

49 188.6 0.0 453.5

130 129.1 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.240 ug/l

RT: 2.04 min Scan# 84

Delta R.T. -0.00 min

Lab File: VN058910.D

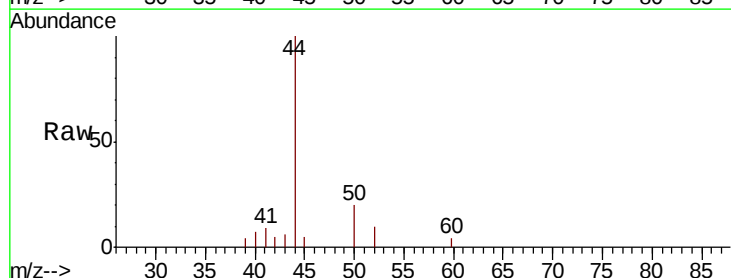
Acq: 22 Oct 2019 15:46

Tgt Ion: 50 Resp: 967

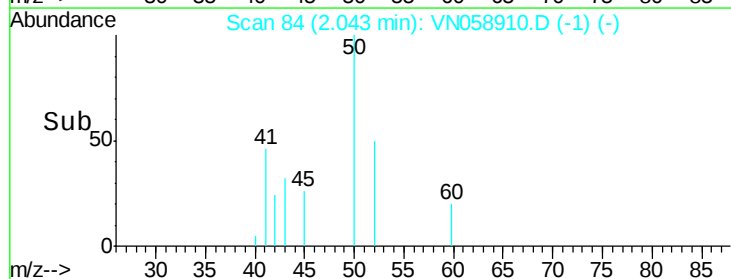
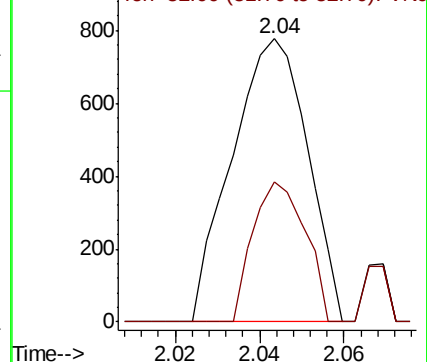
Ion Ratio Lower Upper

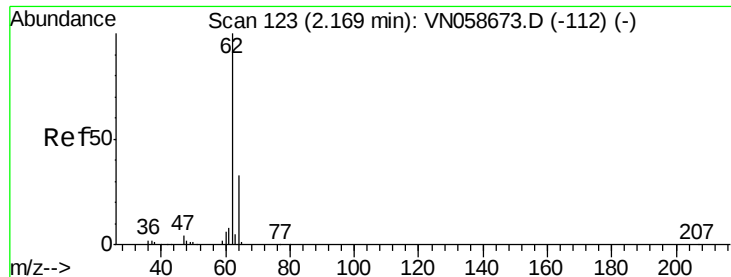
50 100

52 49.5 25.8 38.8#



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#4

Vinyl Chloride

Concen: 0.230 ug/l

RT: 1.97 min Scan# 62

Delta R.T. -0.20 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

Instrument :

MSVOA_N

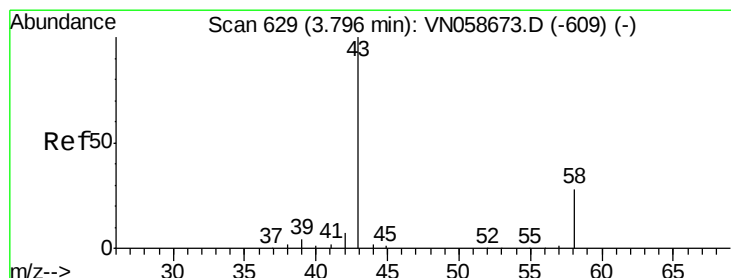
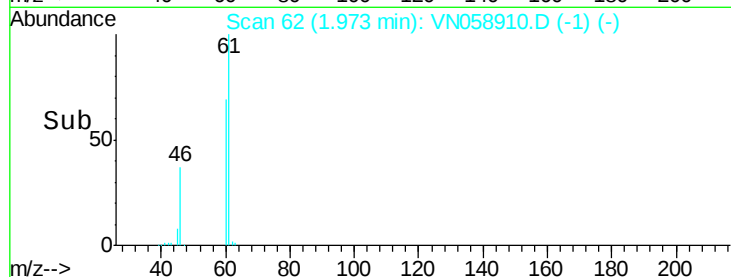
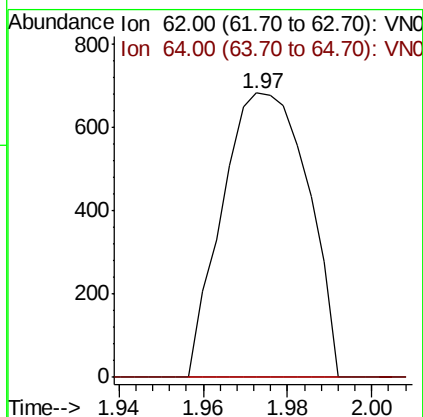
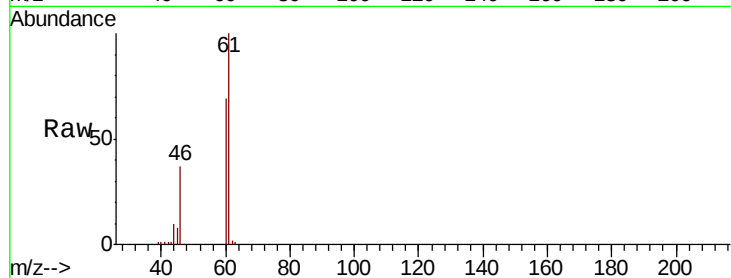
ClientSampleId :

Tot Ion: 62 Resp: 956

Ion Ratio Lower Upper

62 100

64 0.0 26.1 39.1#



#15

Acetone

Concen: 51.895 ug/l

RT: 3.80 min Scan# 629

Delta R.T. -0.00 min

Lab File: VN058910.D

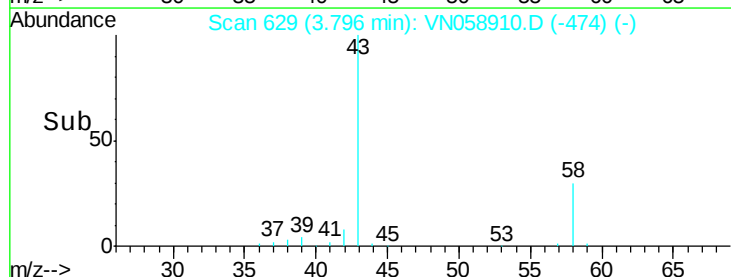
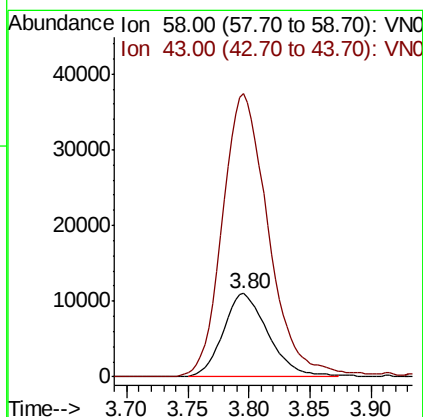
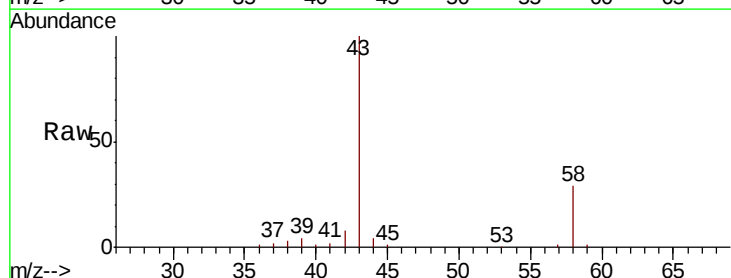
Acq: 22 Oct 2019 15:46

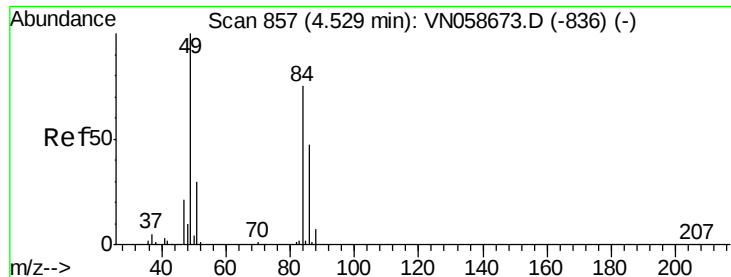
Tgt Ion: 58 Resp: 28237

Ion Ratio Lower Upper

58 100

43 335.8 281.7 422.5

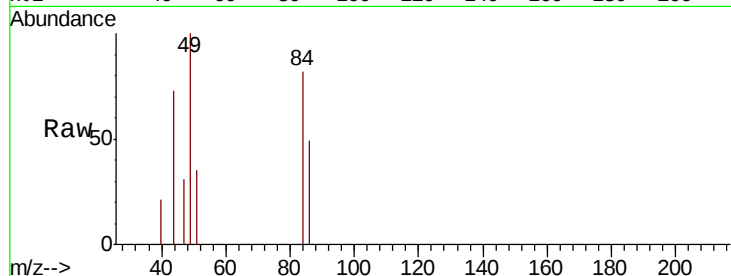




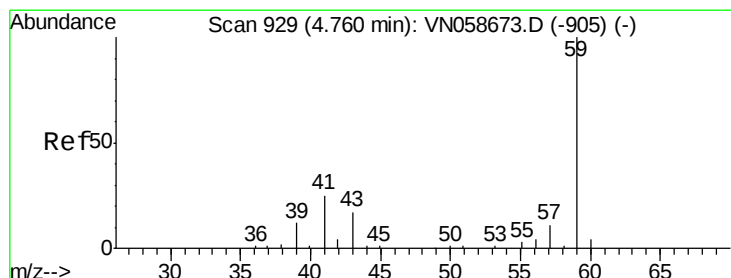
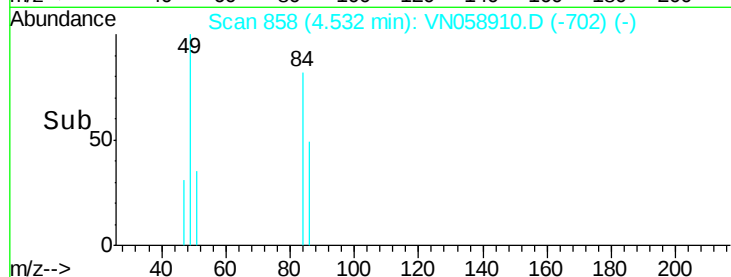
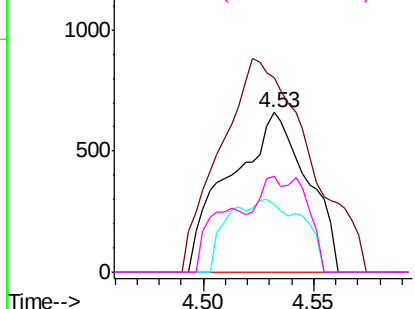
#18
Methvlene Chloride
Concen: 0.453 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1595
Ion Ratio Lower Upper
84 100
49 95.8 106.6 160.0#
51 42.2 32.4 48.6
86 59.9 50.6 76.0

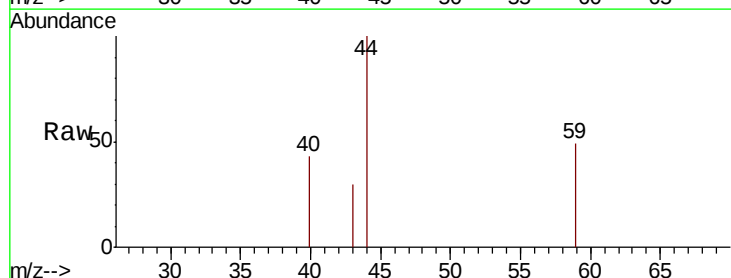


Abundance Ion 84.00 (83.70 to 84.70): VN0
Ion 49.00 (48.70 to 49.70): VN0
Ion 51.00 (50.70 to 51.70): VN0
Ion 86.00 (85.70 to 86.70): VN0

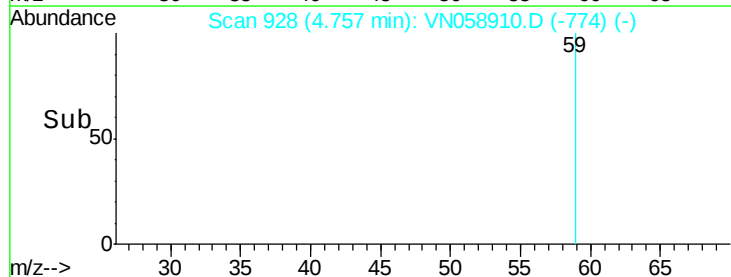
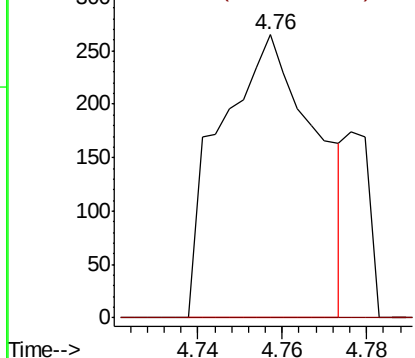


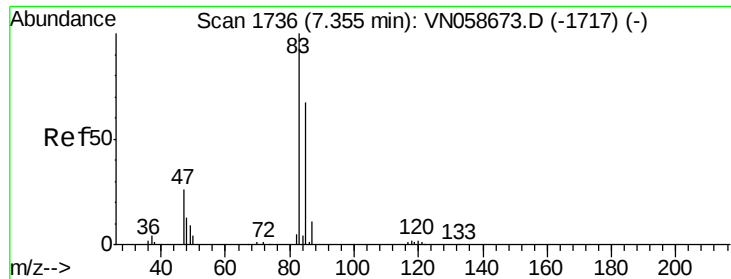
#23
tert-Butyl Alcohol
Concen: 0.560 ug/l
RT: 4.76 min Scan# 928
Delta R.T. -0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Tgt Ion: 59 Resp: 420
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

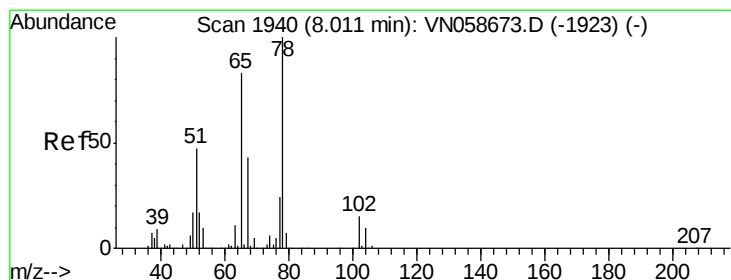
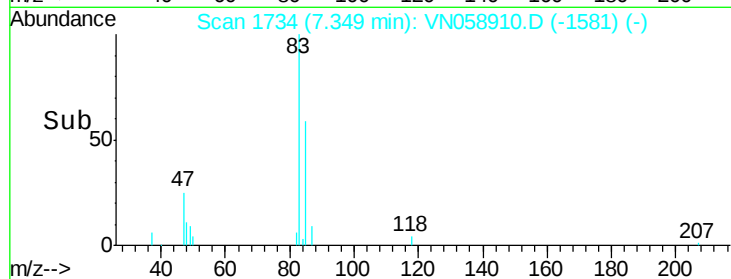
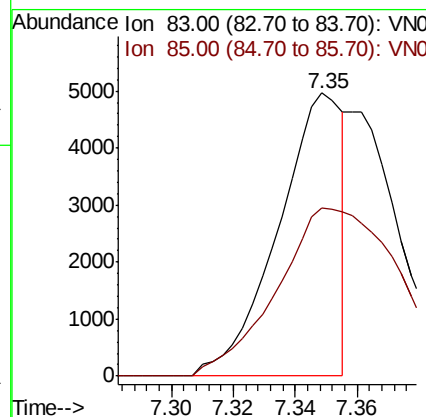
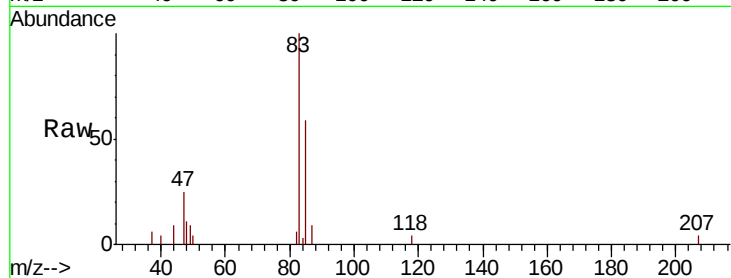




#25
Chloroform
Concen: 1.096 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.01 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

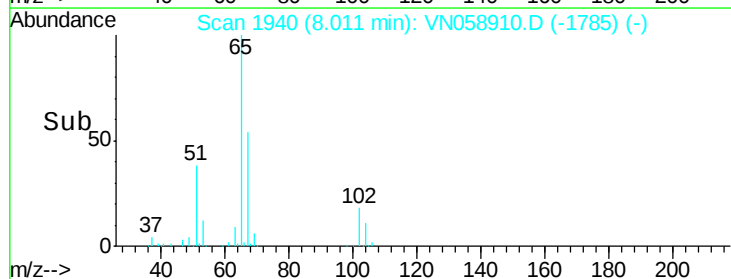
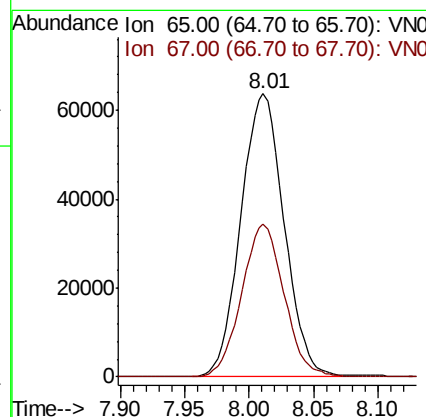
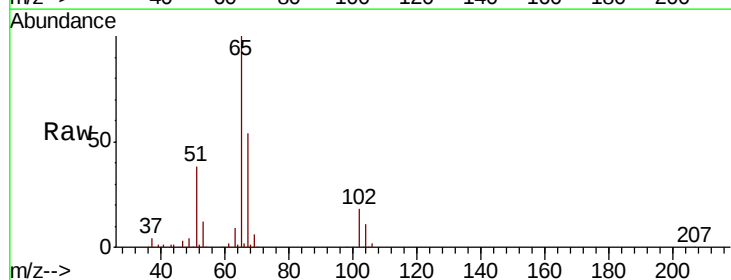
Instrument :
MSVOA_N
ClientSampled :

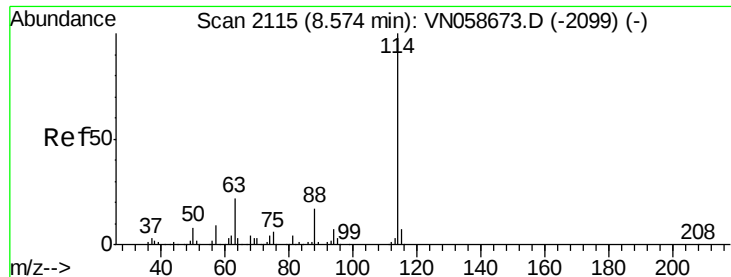
Tot Ion: 83 Resp: 7140
Ion Ratio Lower Upper
83 100
85 59.3 53.8 80.8



#27
1,2-Dichloroethane-d4
Concen: 31.648 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Tgt Ion: 65 Resp: 149276
Ion Ratio Lower Upper
65 100
67 52.7 41.5 62.3

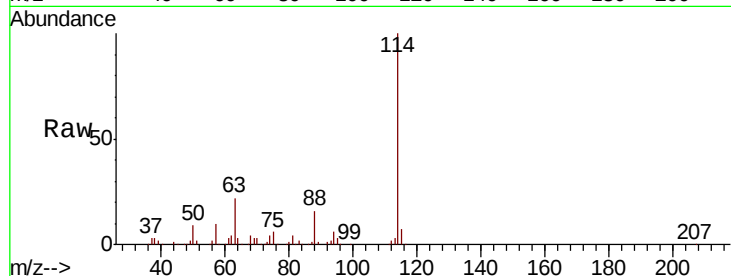




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058910.D
 Acq: 22 Oct 2019 15:46

Instrument :
 MSVOA_N
 ClientSampleId :

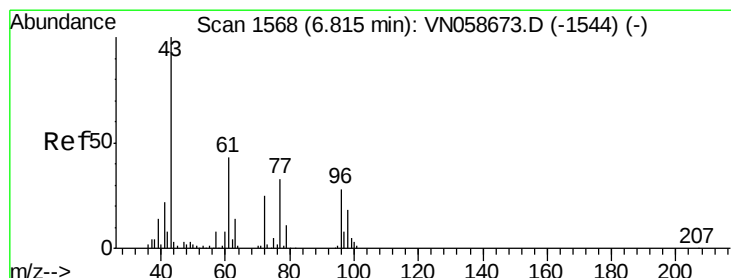
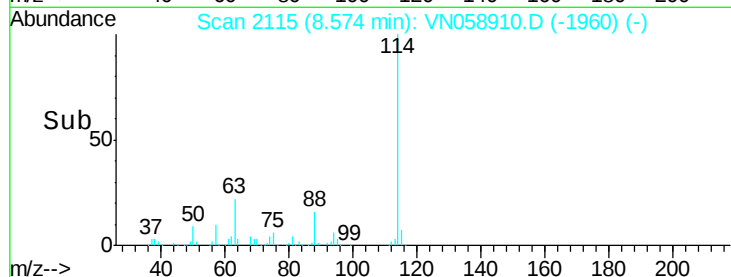
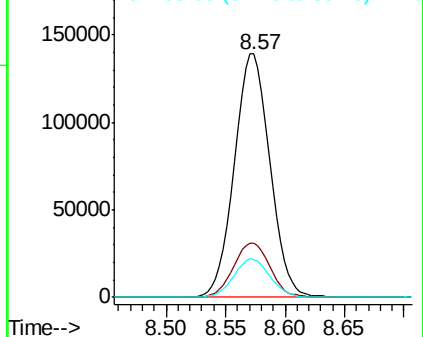
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	18.1	27.1
88	16.1	13.0	19.4



Abundance Ion 114.00 (113.70 to 114.70): VN058910.D (-1960) (-)

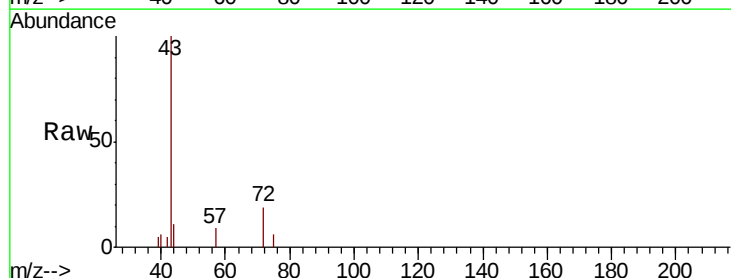
Ion 63.00 (62.70 to 63.70): VN058910.D (-1960) (-)

Ion 88.00 (87.70 to 88.70): VN058910.D (-1960) (-)



#30
 2-Butanone
 Concen: 4.413 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VN058910.D
 Acq: 22 Oct 2019 15:46

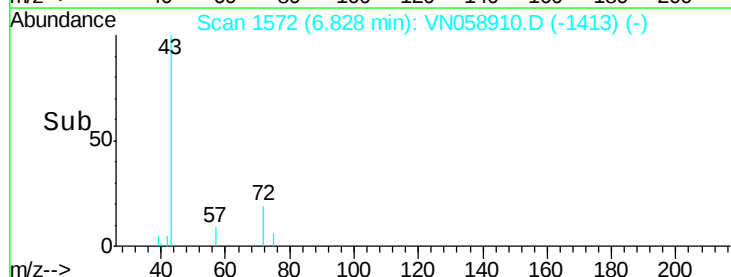
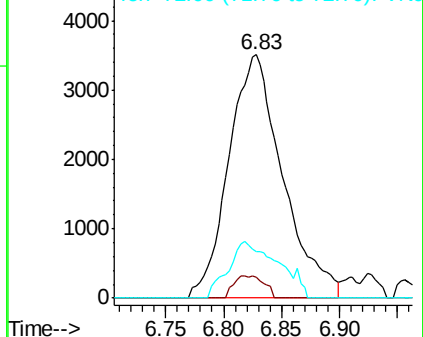
Tgt Ion	Ratio	Lower	Upper
43	100		
57	2.7	6.5	9.7#
72	20.2	20.1	30.1

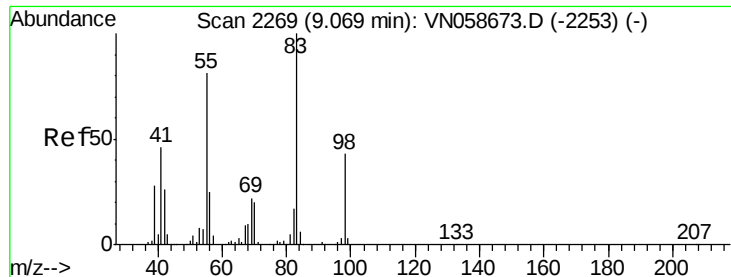


Abundance Ion 43.00 (42.70 to 43.70): VN058910.D (-1413) (-)

Ion 57.00 (56.70 to 57.70): VN058910.D (-1413) (-)

Ion 72.00 (71.70 to 72.70): VN058910.D (-1413) (-)

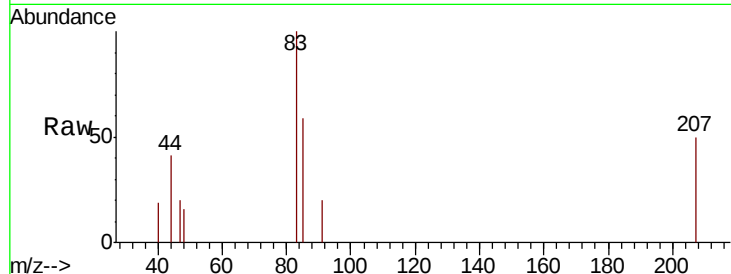




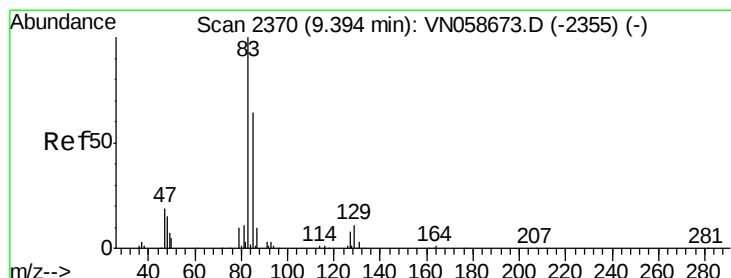
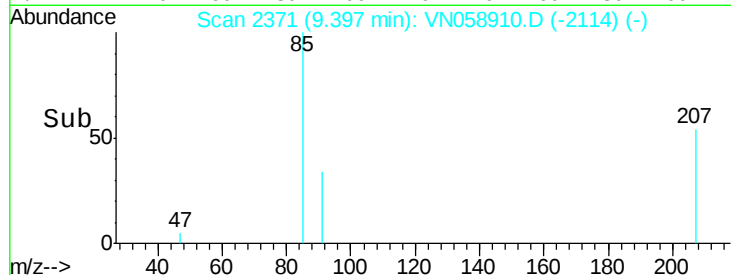
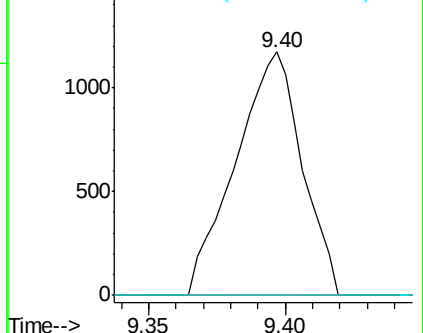
#38
Methvlcvclohexane
Concen: 0.375 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.33 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 83 Resp: 1980
Ion Ratio Lower Upper
83 100
55 0.0 40.4 121.1#
98 0.0 21.6 65.0#

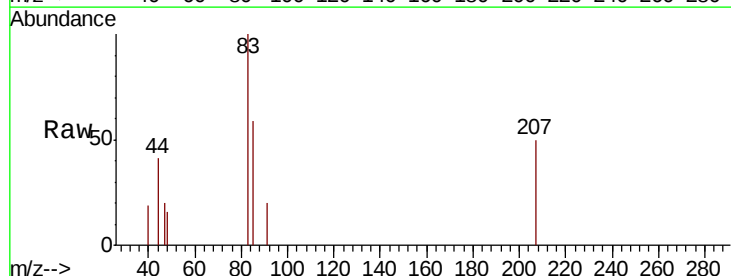


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

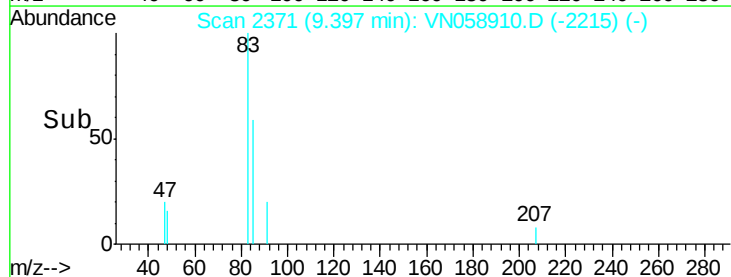
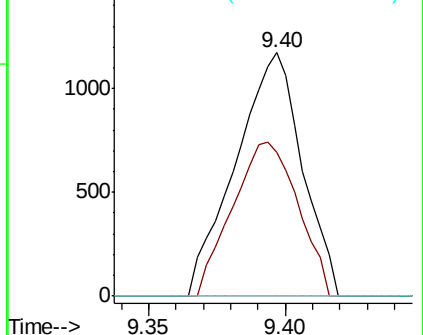


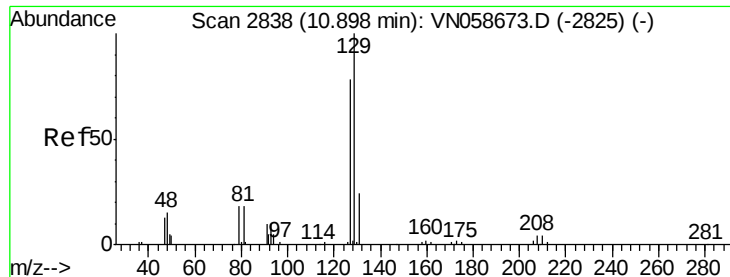
#41
Bromodichloromethane
Concen: 0.419 ug/l
RT: 9.40 min Scan# 2371
Delta R.T. 0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Tgt Ion: 83 Resp: 1980
Ion Ratio Lower Upper
83 100
85 58.8 51.0 76.4
127 0.0 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): V





#53

Dibromochloromethane

Concen: 0.368 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

Instrument :

MSVOA_N

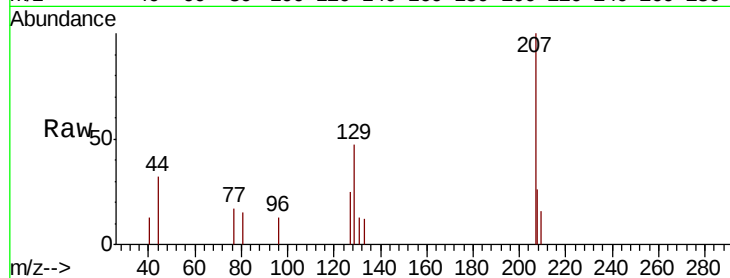
ClientSampleId :

Tot Ion:129 Resp: 1305

Ion Ratio Lower Upper

129 100

127 42.9 39.1 117.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

800

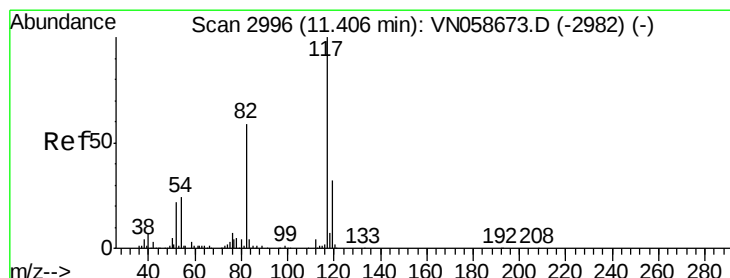
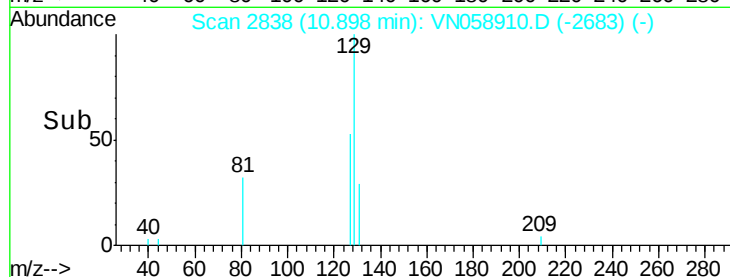
600

400

200

0

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

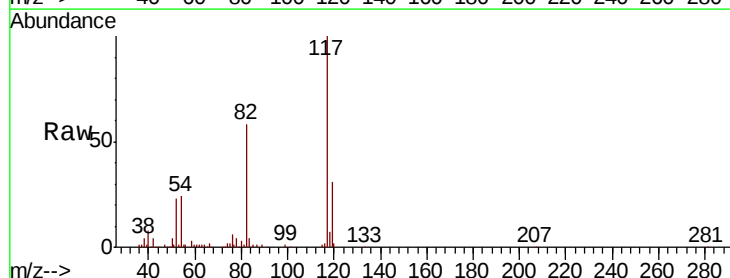
Tgt Ion:117 Resp: 264730

Ion Ratio Lower Upper

117 100

82 58.8 46.9 70.3

119 31.9 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 119.00 (118.70 to 119.70): V

200000

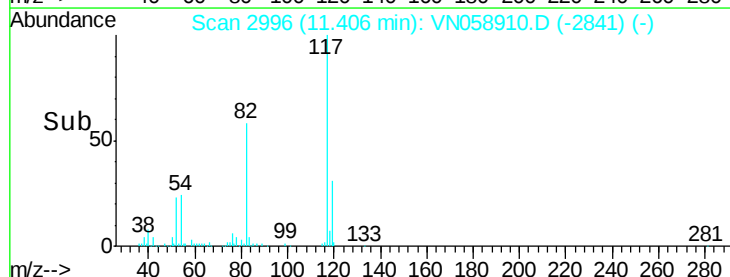
150000

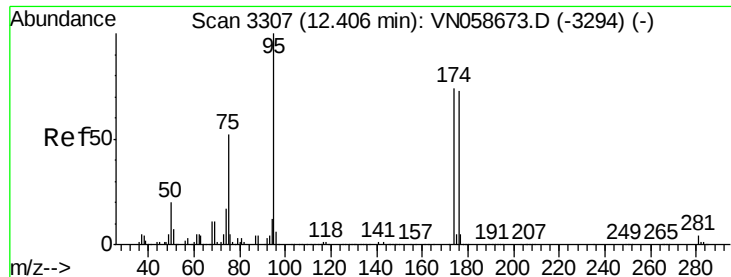
100000

50000

0

Time-->

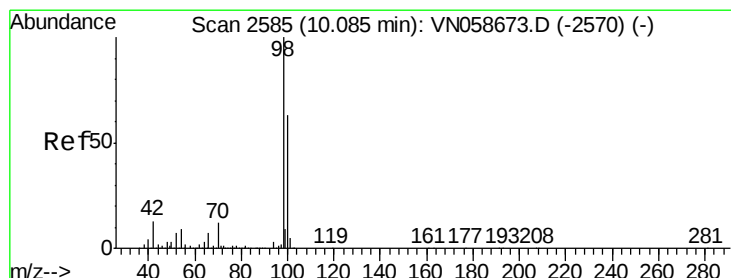
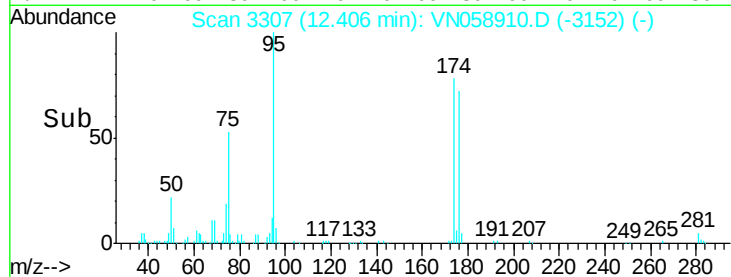
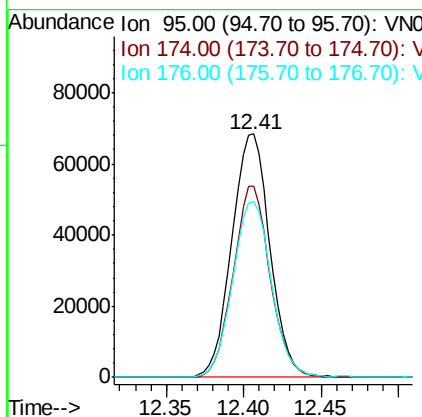
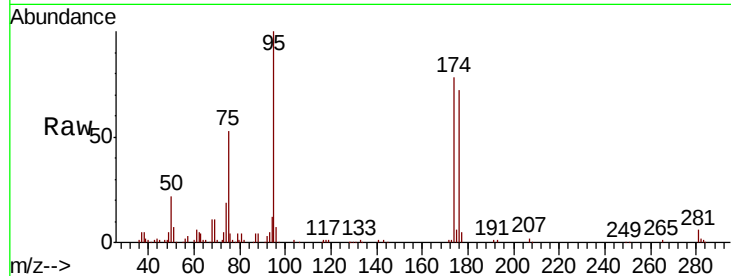




#60
4-Bromofluorobenzene
Concen: 25.301 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

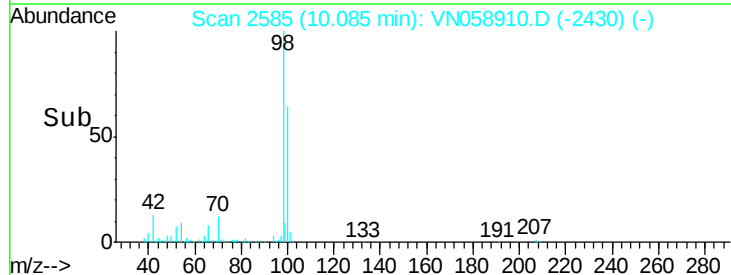
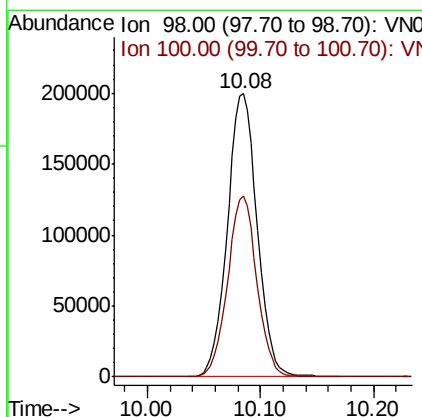
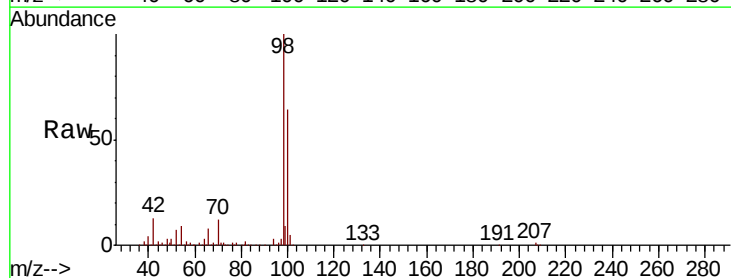
Instrument :
MSVOA_N
ClientSampled :

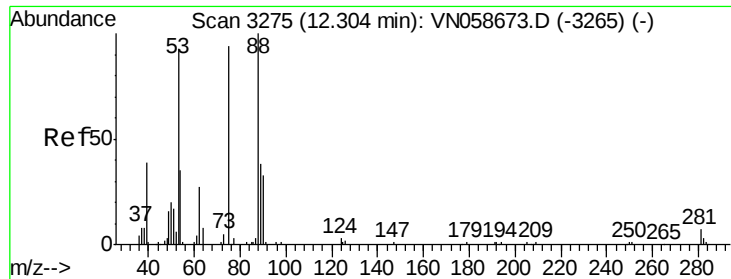
Tot Ion	95	Resp	117165
Ion Ratio	100		
Lower			
Upper			
95	100		
174	76.0	59.9	89.9
176	73.2	58.3	87.5



#63
Toluene-d8
Concen: 29.268 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Tgt Ion	98	Resp	365831
Ion Ratio	100		
Lower			
Upper			
98	100		
100	62.8	50.6	75.8

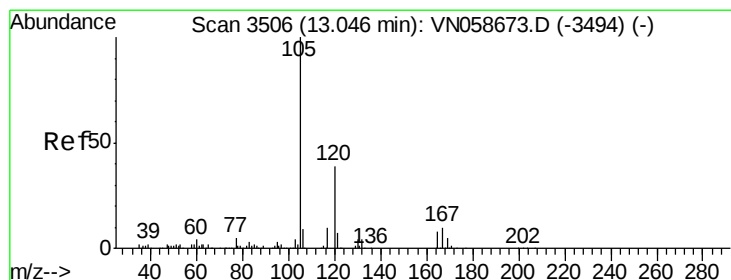
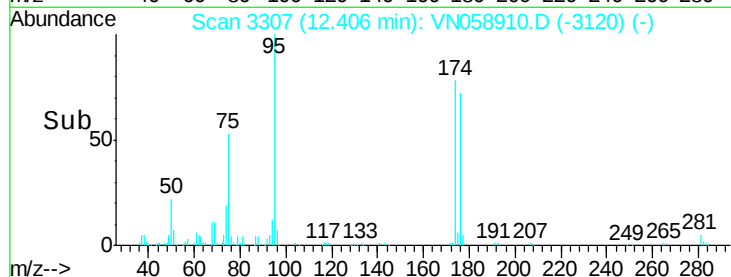
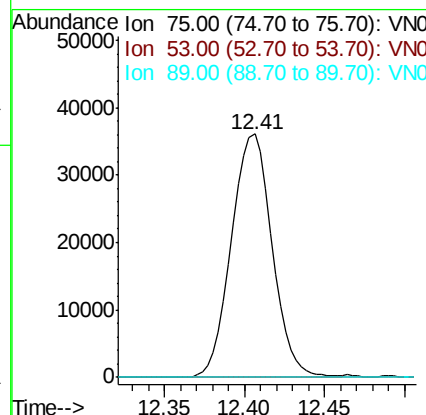
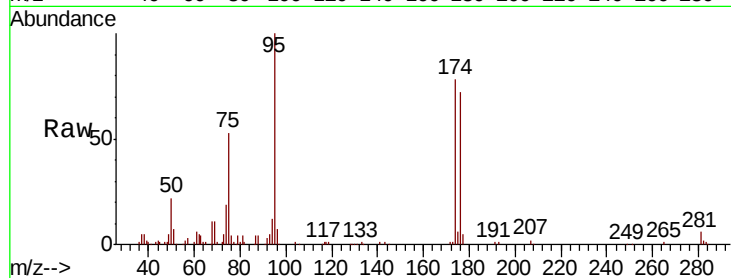




#77
t-1,4-Dichloro-2-butene
Concen: 34.966 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

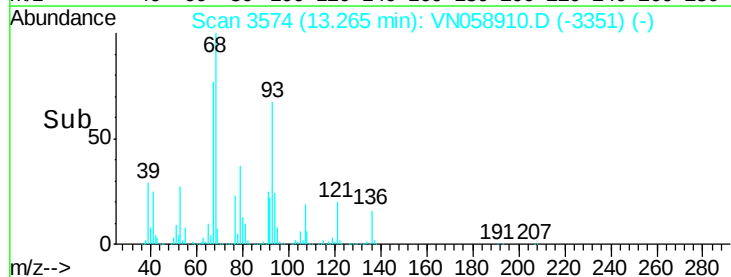
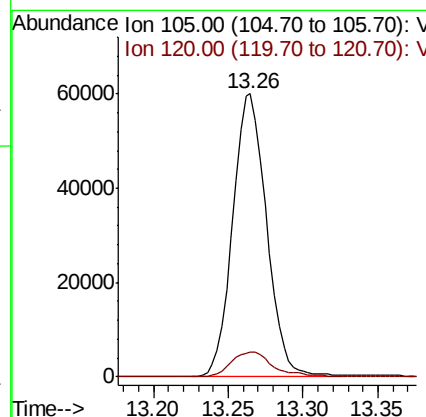
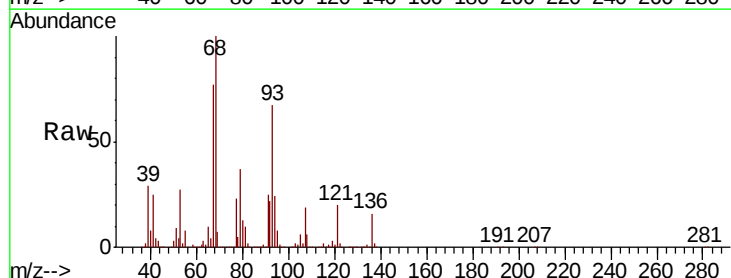
Instrument :
MSVOA_N
ClientSampled :

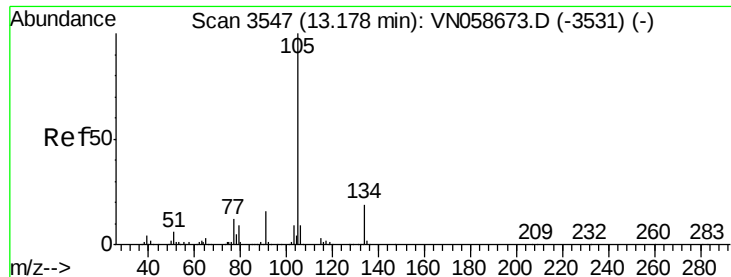
Tot Ion: 75 Resp: 62652
Ion Ratio Lower Upper
75 100
53 0.0 50.0 150.0#
89 0.0 20.7 62.1#



#80
1,2,4-Trimethylbenzene
Concen: 7.233 ug/l
RT: 13.26 min Scan# 3574
Delta R.T. 0.22 min
Lab File: VN058910.D
Acq: 22 Oct 2019 15:46

Tgt Ion: 105 Resp: 94919
Ion Ratio Lower Upper
105 100
120 10.8 0.0 89.2





#81

sec-Butylbenzene

Concen: 6.251 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. 0.09 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

Instrument :

MSVOA_N

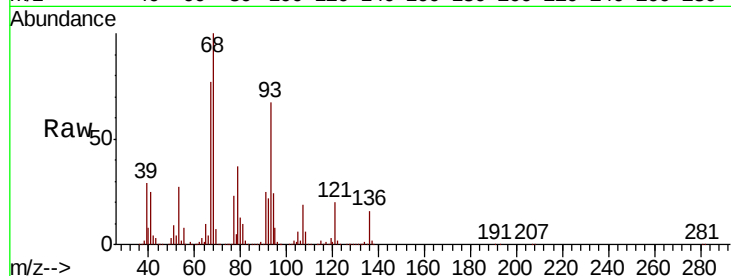
ClientSampleId :

Tot Ion:105 Resp: 94919

Ion Ratio Lower Upper

105 100

134 17.3 0.0 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

60000

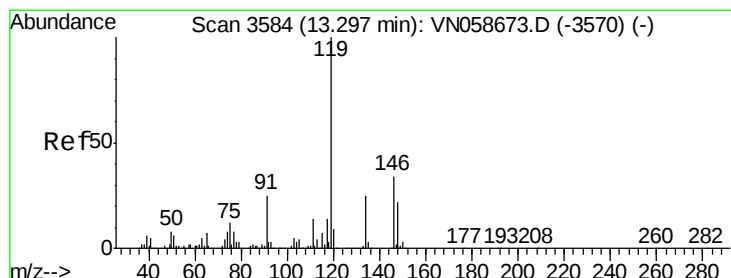
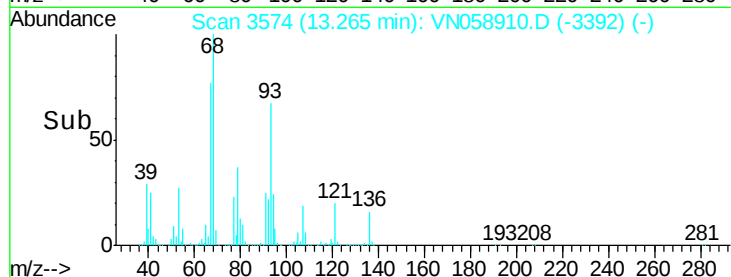
40000

20000

0

13.20 13.25 13.30 13.35

Time-->



#82

p-Isopropyltoluene

Concen: 4.066 ug/l

RT: 13.26 min Scan# 3574

Delta R.T. -0.03 min

Lab File: VN058910.D

Acq: 22 Oct 2019 15:46

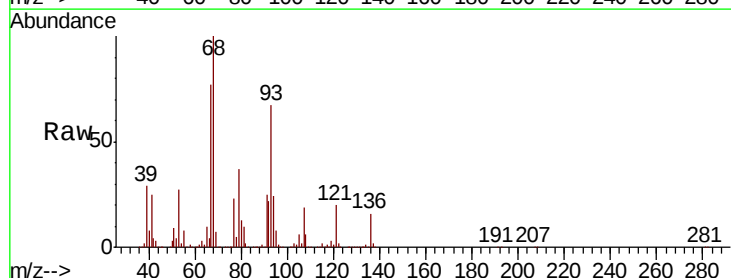
Tgt Ion:119 Resp: 55445

Ion Ratio Lower Upper

119 100

134 29.7 0.0 50.8

91 660.8 0.0 49.4#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300000

250000

200000

150000

100000

50000

0

13.20 13.25 13.30 13.35

Time-->

