

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120619\
 Data File : VN059505.D
 Acq On : 6 Dec 2019 11:00
 Operator : JC/SP
 Sample : VN1206MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 06 22:17:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	213538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	343521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	295097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	100495	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	151893	57.26	ug/l	0.00
Spiked Amount						
			Recovery	=	114.52%	
35) Dibromofluoromethane	7.57	113	110361	51.58	ug/l	0.00
Spiked Amount						
			Recovery	=	103.16%	
50) Toluene-d8	10.08	98	422978	50.14	ug/l	0.00
Spiked Amount						
			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.40	95	124678	42.32	ug/l	0.00
Spiked Amount						
			Recovery	=	84.64%	

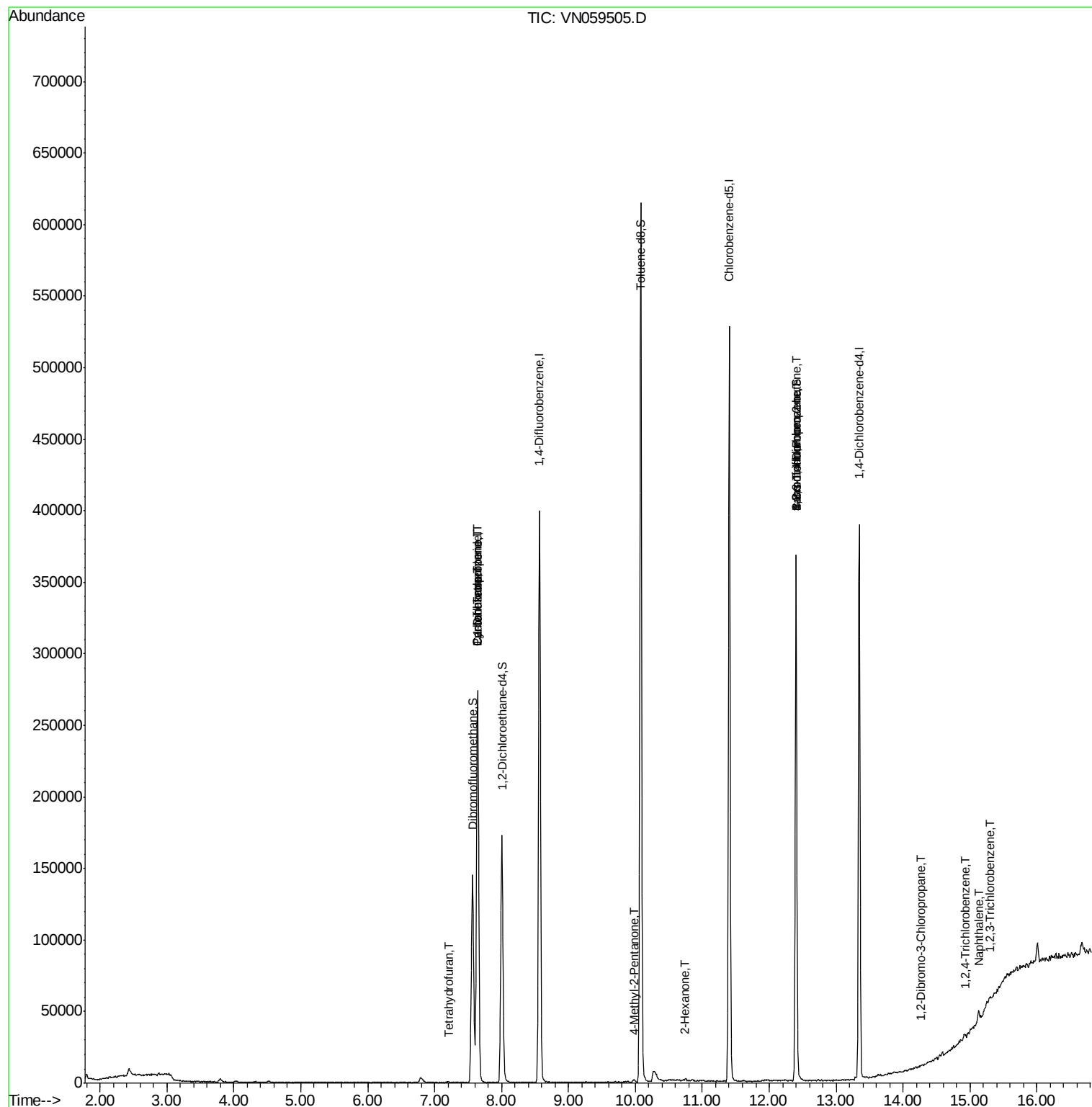
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	3821	Below Cal		95
20) Methylene Chloride	4.51	84	314	Below Cal	#	34
29) Tetrahydrofuran	7.20	42	399	0.315	ug/l #	40
31) Cyclohexane	7.64	56	5320	1.190	ug/l #	15
36) 1,1-Dichloropropene	7.64	75	18686	5.227	ug/l #	48
38) Carbon Tetrachloride	7.64	117	22007	6.401	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	1391	0.395	ug/l #	77
59) 2-Hexanone	10.75	43	1247	0.470	ug/l	69
71) Bromoform	12.40	173	549	0.304	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	67546	27.032	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	67546	70.942	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.26	75	314	0.459	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	952	0.458	ug/l	84
94) Hexachlorobutadiene	15.01	225	265	Below Cal	#	48
95) Naphthalene	15.13	128	5146	3.283	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.30	180	1486	2.649	ug/l	84

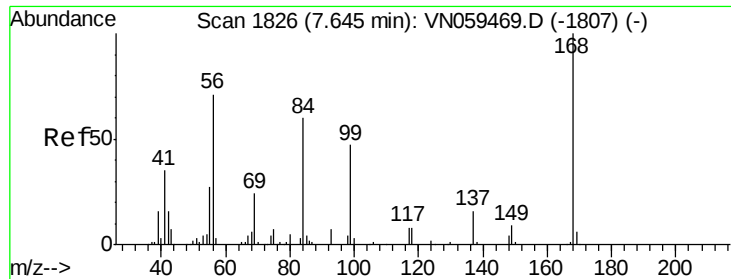
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120619\
Data File : VN059505.D
Acq On : 6 Dec 2019 11:00
Operator : JC/SP
Sample : VN1206MBL01
Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Dec 06 22:17:18 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

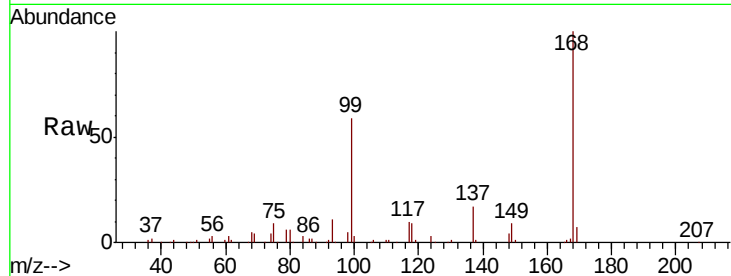
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 213538

Ion Ratio Lower Upper

168 100

99 59.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VN059469.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059469.D (-1807) (-)

7.64

100000

80000

60000

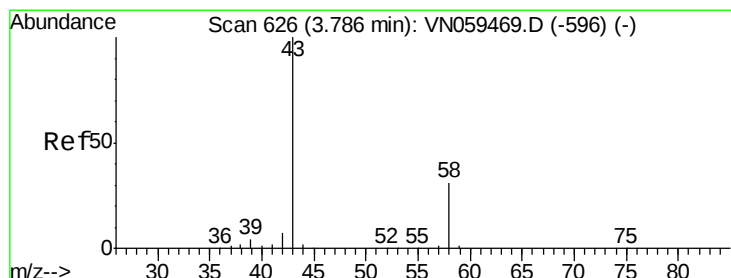
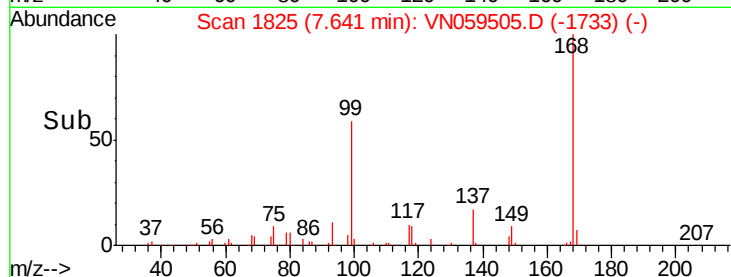
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059505.D

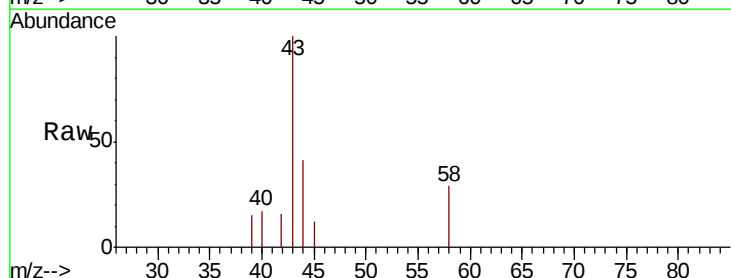
Acq: 6 Dec 2019 11:00

Tgt Ion: 43 Resp: 3821

Ion Ratio Lower Upper

43 100

58 28.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059469.D (-596) (-)

Ion 58.00 (57.70 to 58.70): VN059469.D (-596) (-)

3.80

1500

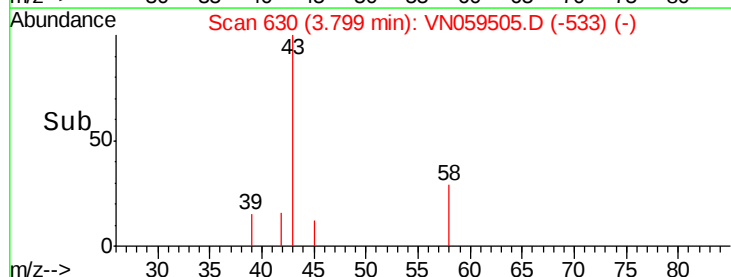
1000

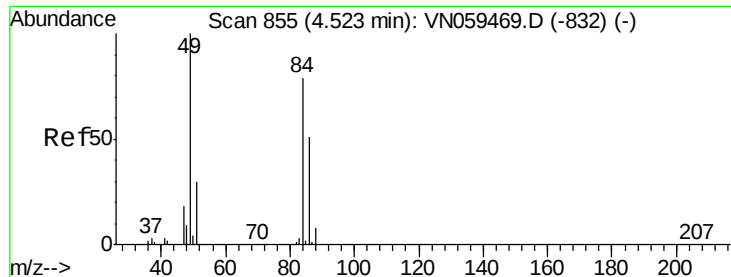
500

0

3.75 3.80 3.85

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 851

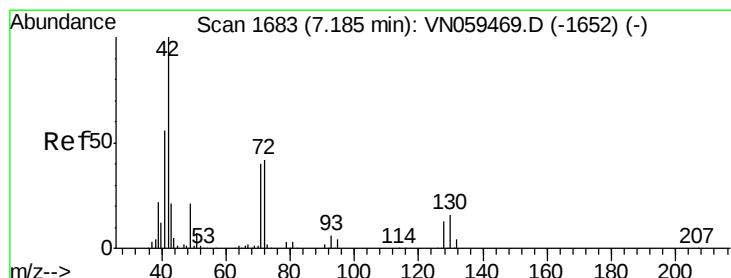
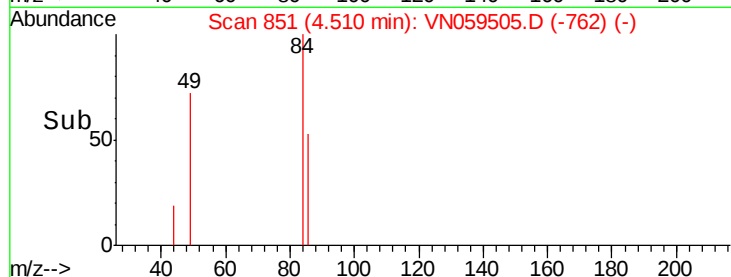
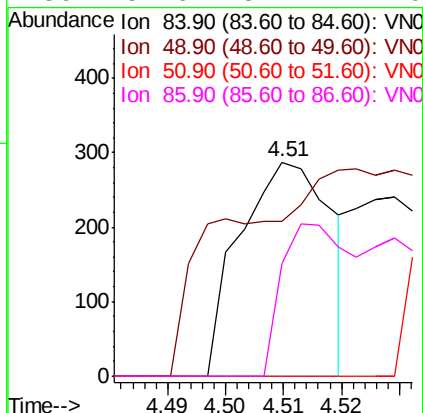
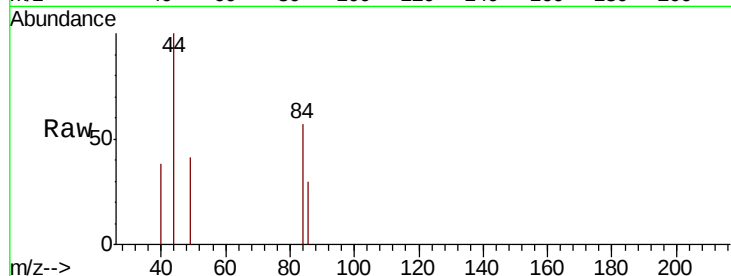
Delta R.T. -0.01 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	314
Ion	Ratio	Lower	Upper
84	100		
49	19.9	101.1	151.7#
51	0.0	30.7	46.1#
86	52.6	51.4	77.0



#29

Tetrahydrofuran

Concen: 0.315 ug/l

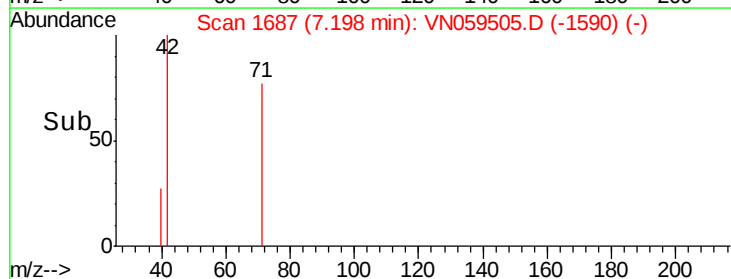
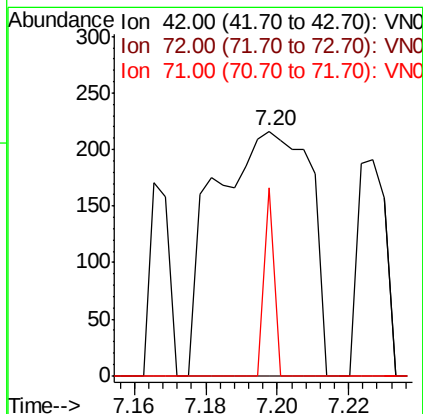
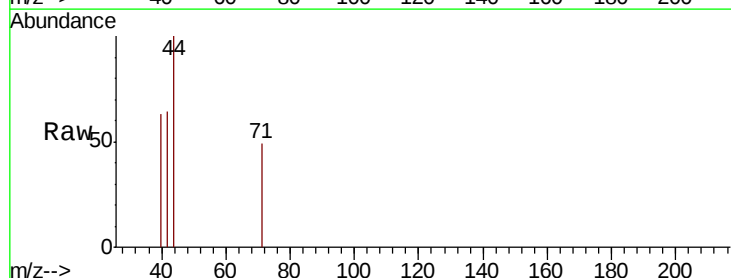
RT: 7.20 min Scan# 1687

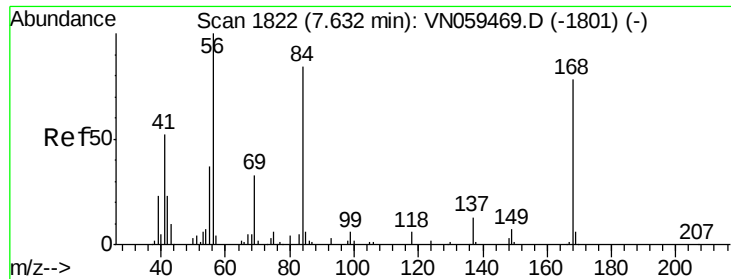
Delta R.T. 0.01 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Tgt Ion:	42	Resp:	399
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	8.0	32.0	48.0#

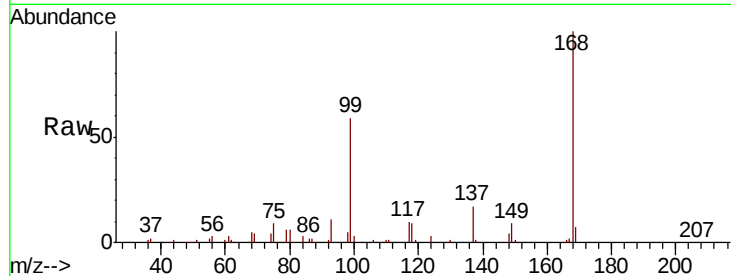




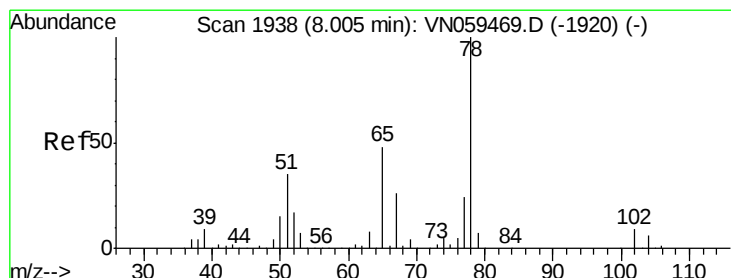
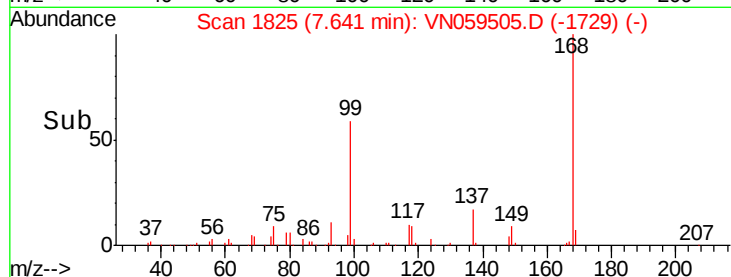
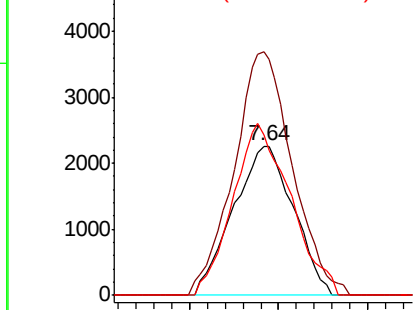
#31
Cyclohexane
Concen: 1.190 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 5320
Ion Ratio Lower Upper
56 100
69 163.5 26.2 39.4#
84 108.0 66.8 100.2#

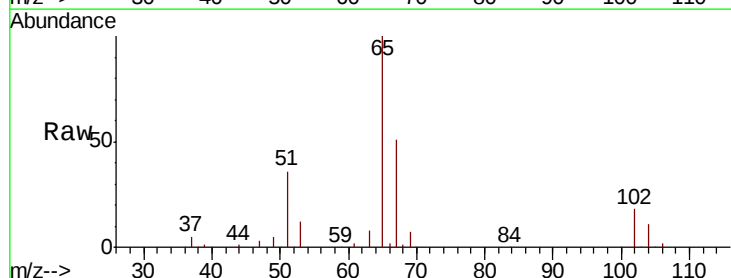


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

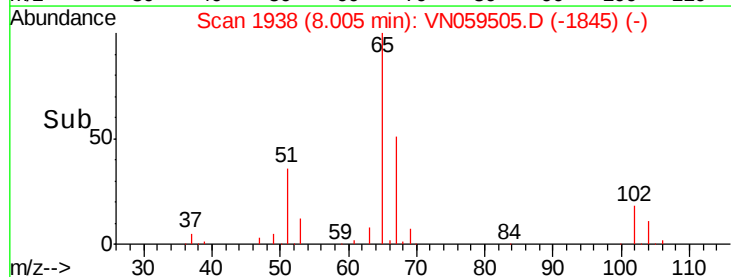
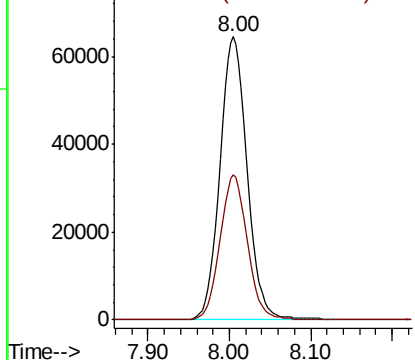


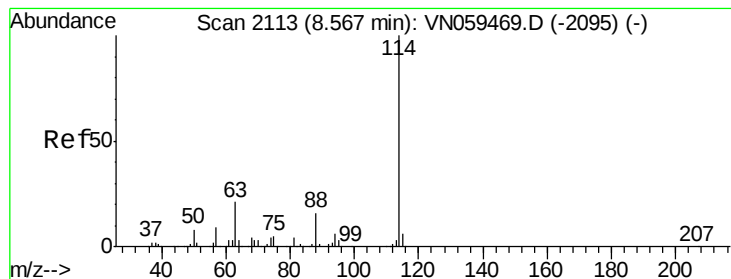
#33
1,2-Dichloroethane-d4
Concen: 57.259 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

Tgt Ion: 65 Resp: 151893
Ion Ratio Lower Upper
65 100
67 51.5 0.0 107.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

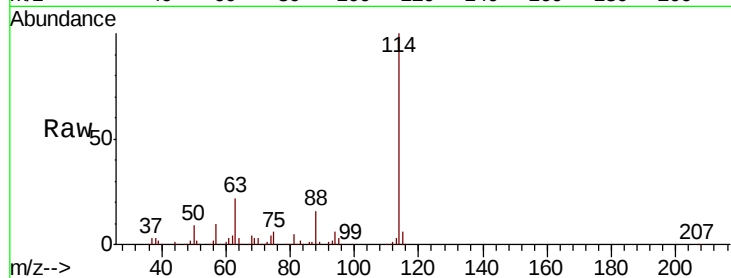
Tot Ion:114 Resp: 343521

Ion Ratio Lower Upper

114 100

63 22.4 0.0 42.4

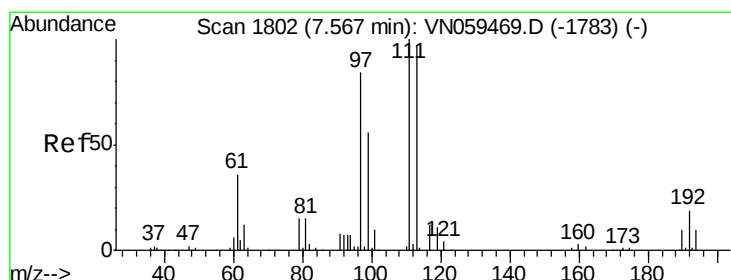
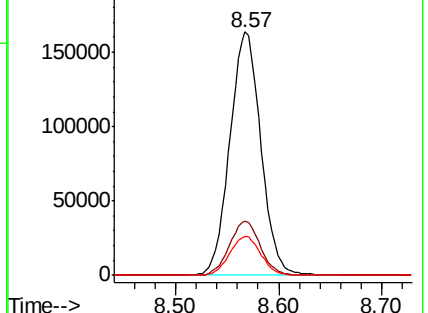
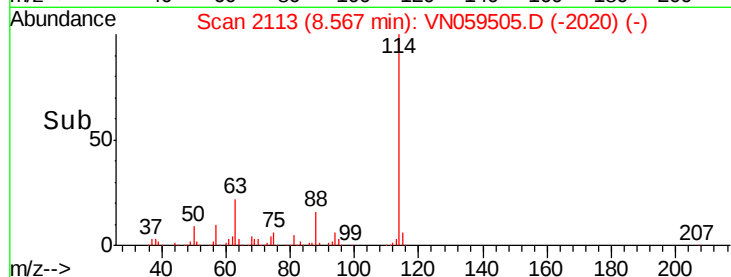
88 15.8 0.0 32.8



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: 51.582 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

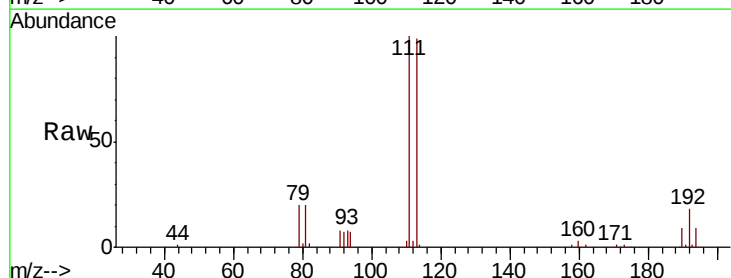
Tgt Ion:113 Resp: 110361

Ion Ratio Lower Upper

113 100

111 103.0 82.5 123.7

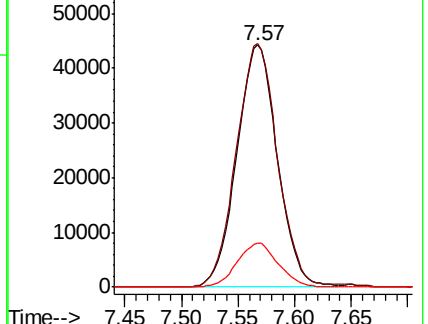
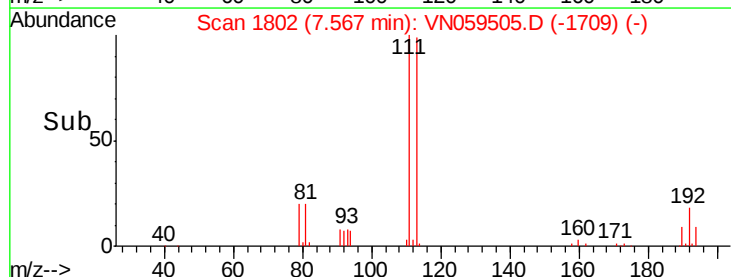
192 18.3 16.1 24.1

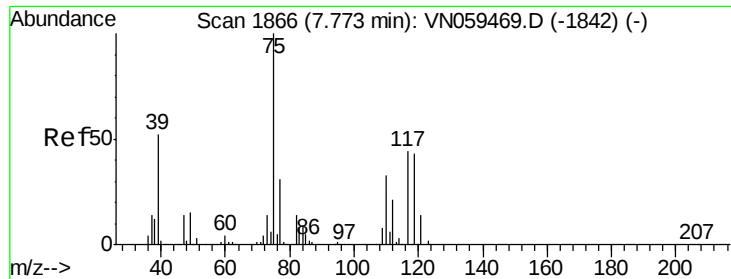


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

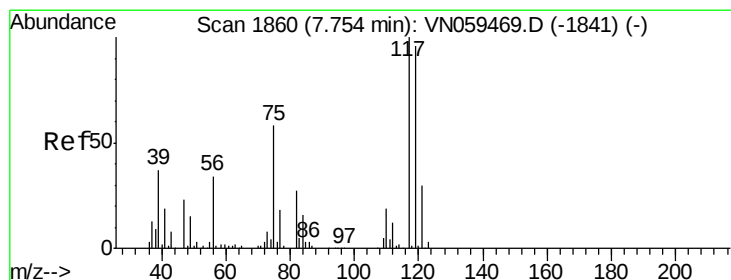
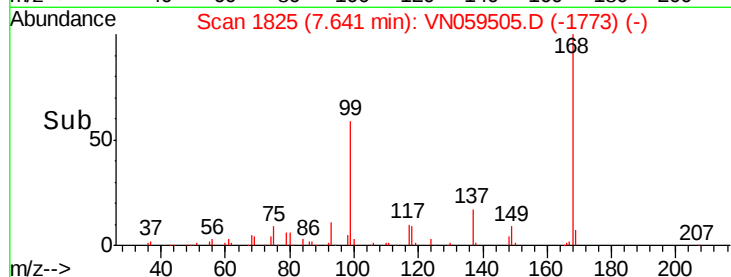
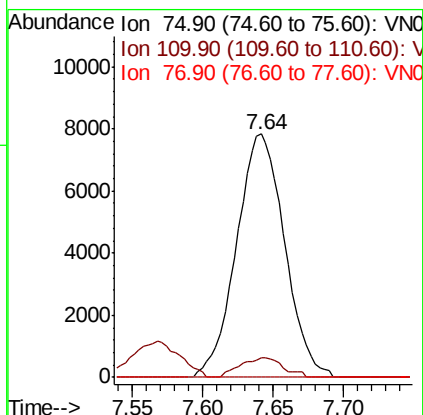
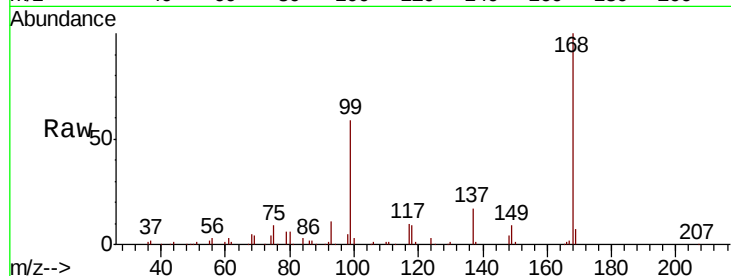




#36
 1,1-Dichloropropene
 Concen: 5.227 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059505.D
 Acq: 6 Dec 2019 11:00

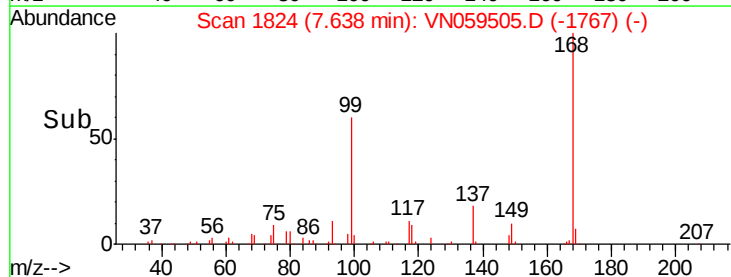
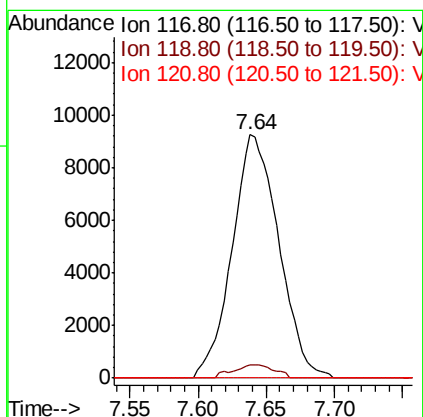
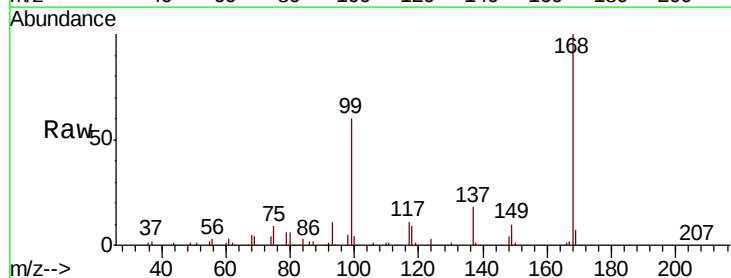
Instrument :
 MSVOA_N
 ClientSampleId :

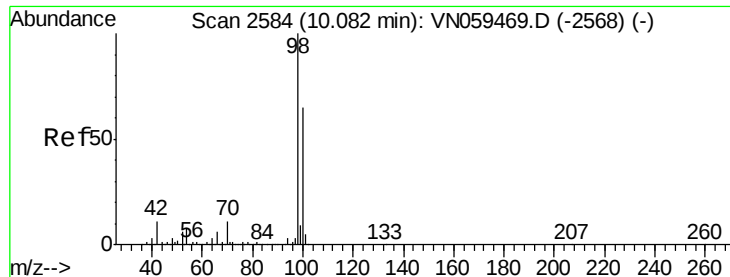
Tot Ion	75	Resp	18686
Ion Ratio	100	Lower	Upper
75	100		
110	7.2	16.9	50.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.401 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.12 min
 Lab File: VN059505.D
 Acq: 6 Dec 2019 11:00

Tgt Ion	117	Resp	22007
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.3	76.6	114.8#
121	0.0	24.0	36.0#





#50

Toluene-d8

Concen: 50.141 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :

MSVOA_N

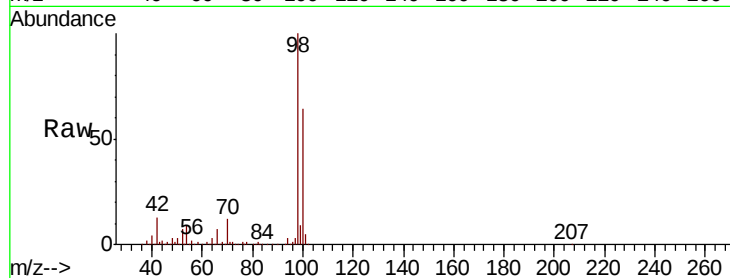
ClientSampled :

Tot Ion: 98 Resp: 422978

Ion Ratio Lower Upper

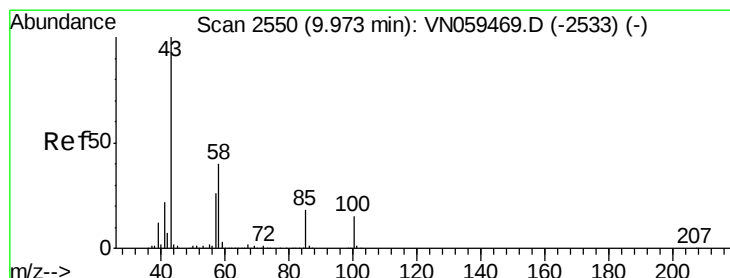
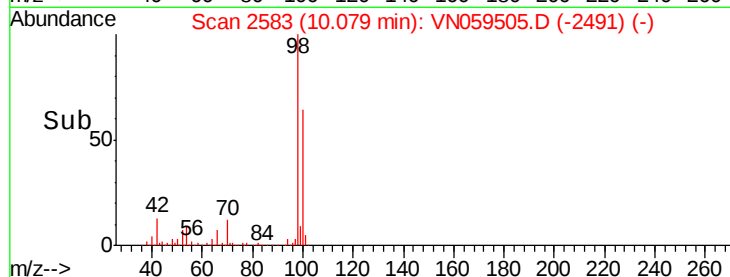
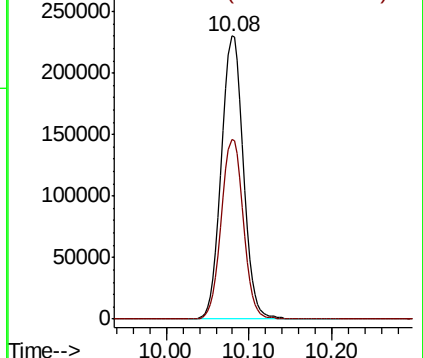
98 100

100 63.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.395 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VN059505.D

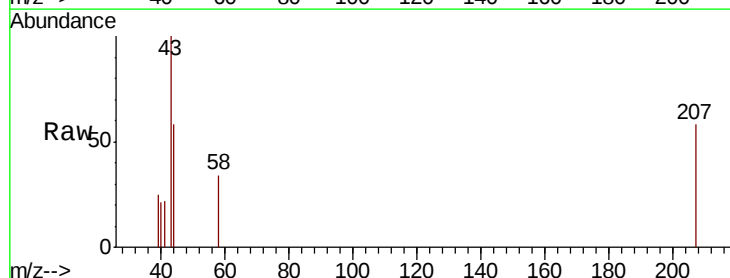
Acq: 6 Dec 2019 11:00

Tgt Ion: 43 Resp: 1391

Ion Ratio Lower Upper

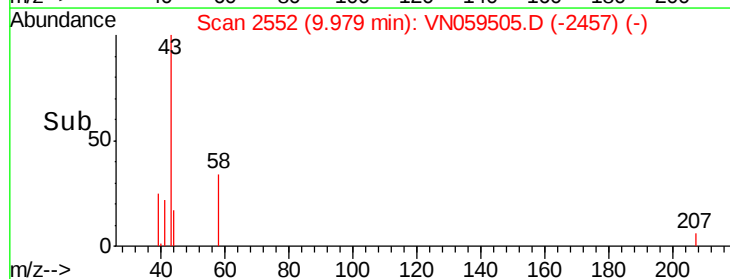
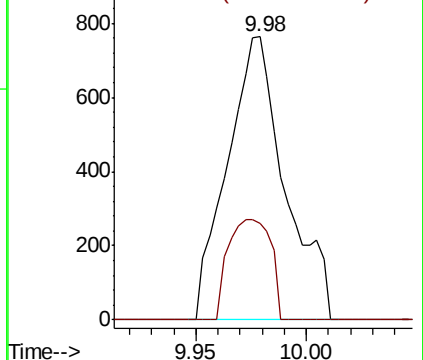
43 100

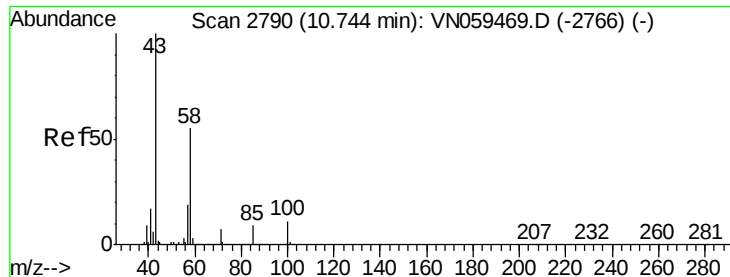
58 26.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

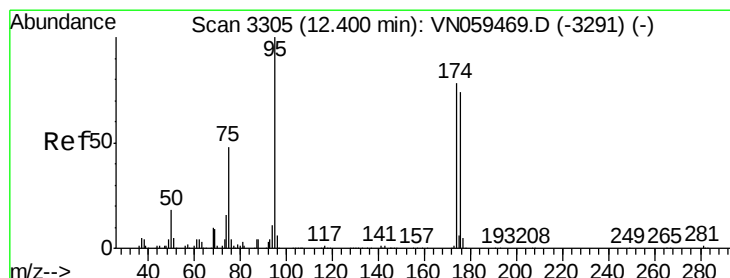
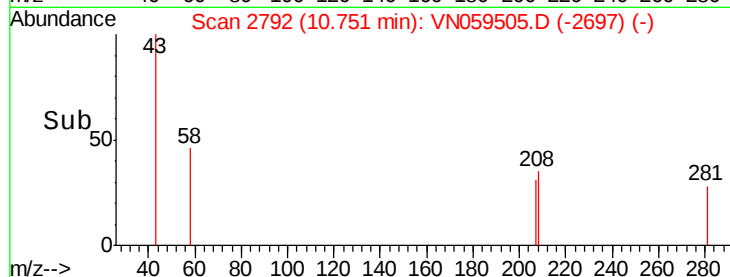
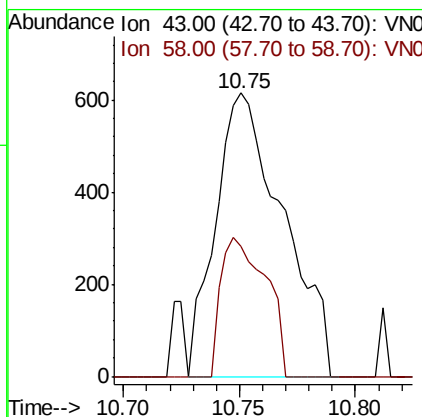
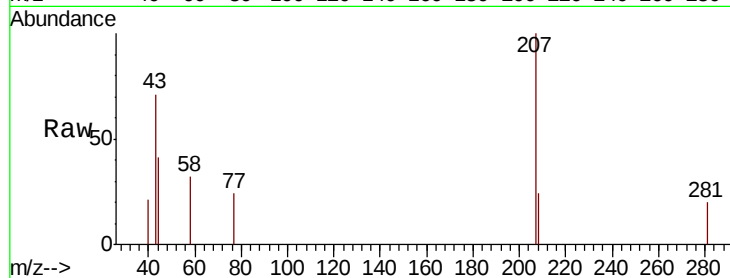




#59
2-Hexanone
Concen: 0.470 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

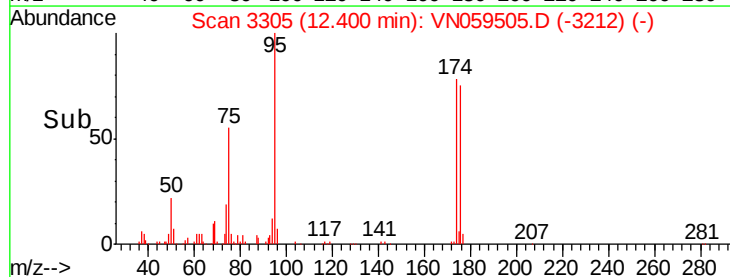
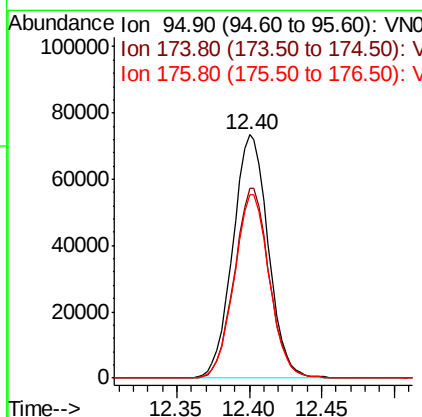
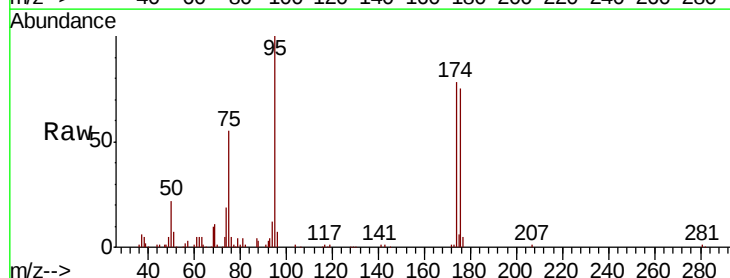
Instrument :
MSVOA_N
ClientSampled :

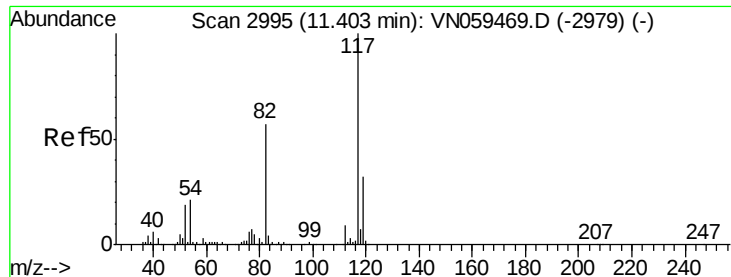
Tot Ion: 43 Resp: 1247
Ion Ratio Lower Upper
43 100
58 32.8 27.7 83.0



#62
4-Bromofluorobenzene
Concen: 42.321 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

Tgt Ion: 95 Resp: 124678
Ion Ratio Lower Upper
95 100
174 76.9 0.0 157.0
176 74.9 0.0 152.4

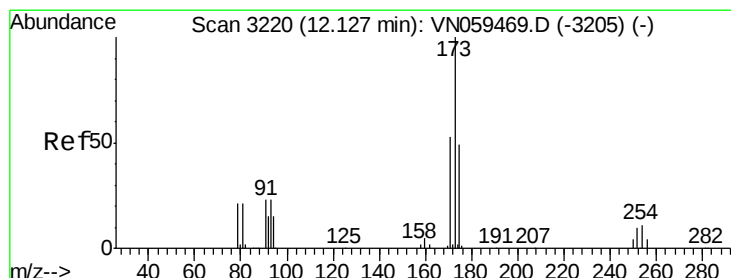
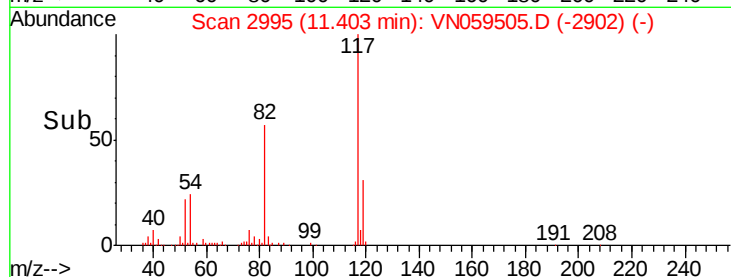
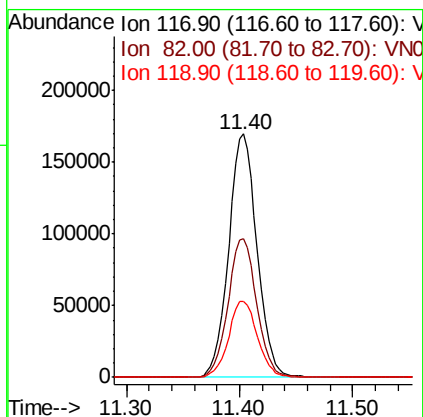
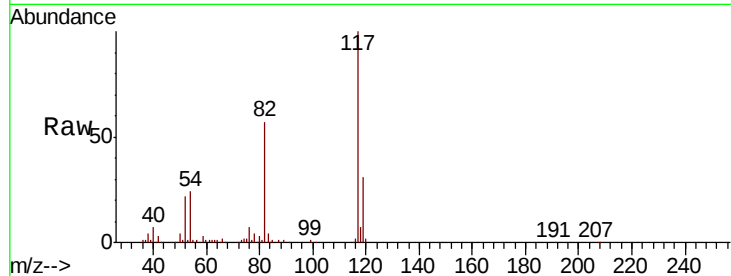




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

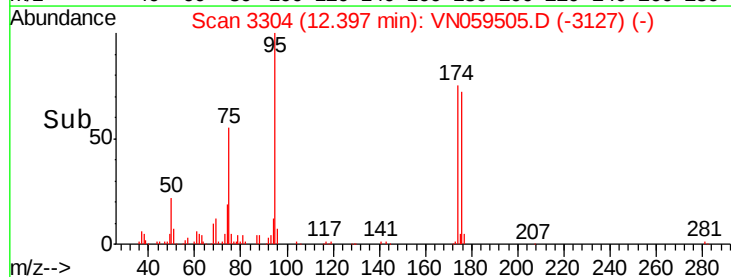
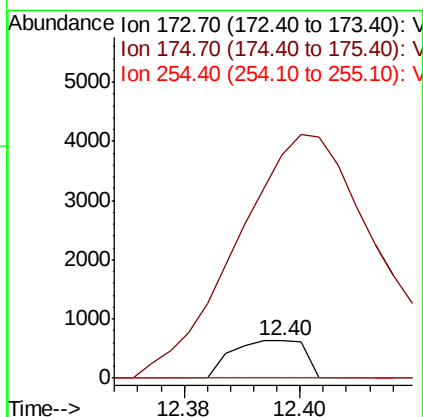
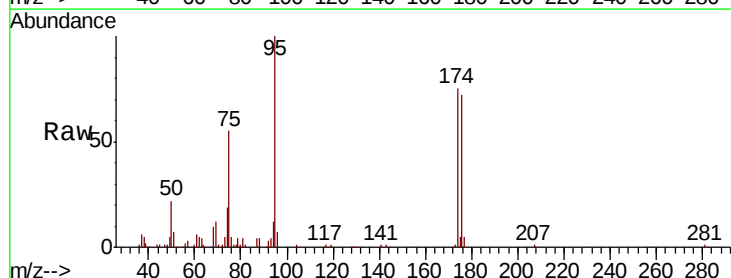
Instrument :
MSVOA_N
ClientSampled :

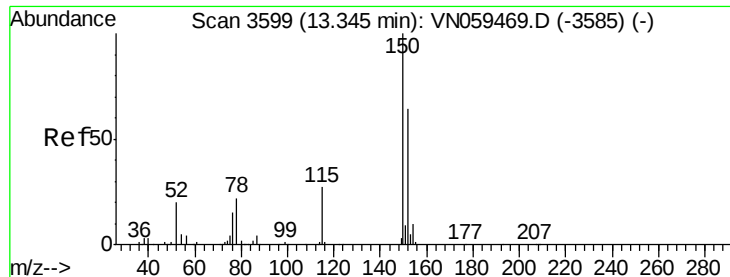
Tot Ion:117 Resp: 295097
Ion Ratio Lower Upper
117 100
82 56.8 45.8 68.8
119 31.2 25.4 38.0



#71
Bromoform
Concen: 0.304 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059505.D
Acq: 6 Dec 2019 11:00

Tgt Ion:173 Resp: 549
Ion Ratio Lower Upper
173 100
175 1096.7 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

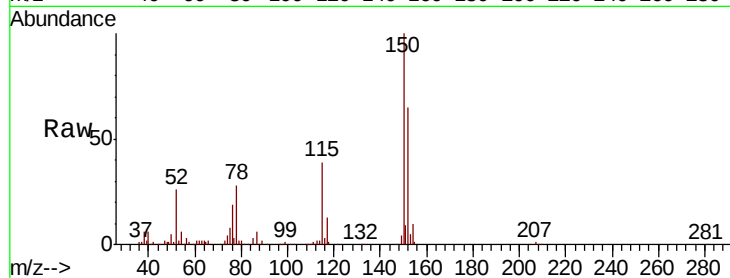
Tot Ion:152 Resp: 100495

Ion Ratio Lower Upper

152 100

115 60.5 29.2 87.6

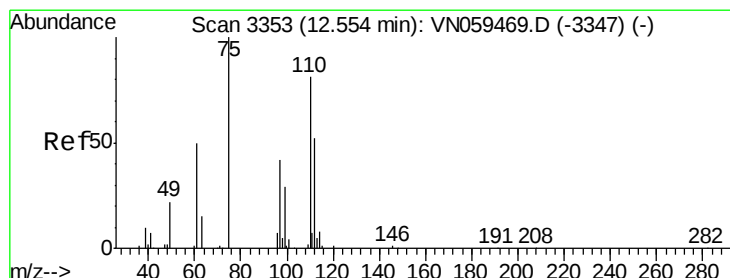
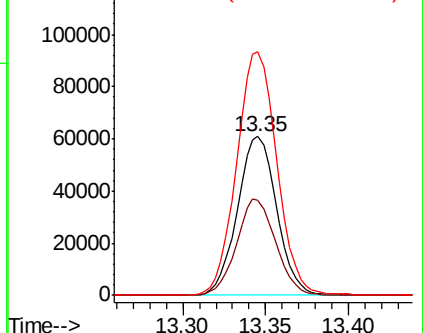
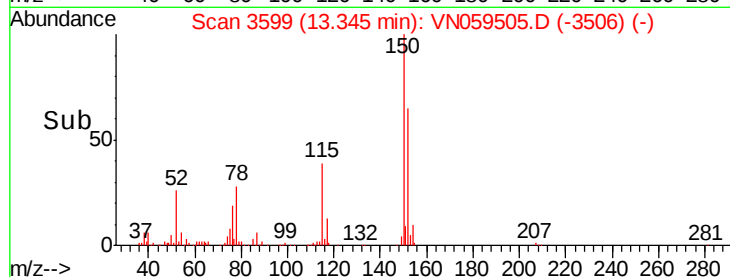
150 157.1 0.0 352.8



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: 27.032 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059505.D

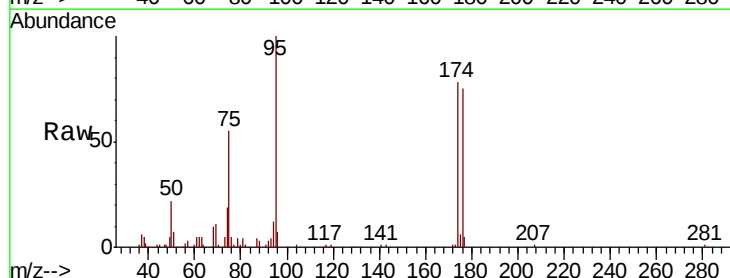
Acq: 6 Dec 2019 11:00

Tgt Ion: 75 Resp: 67546

Ion Ratio Lower Upper

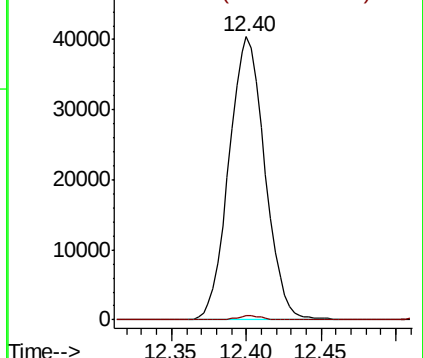
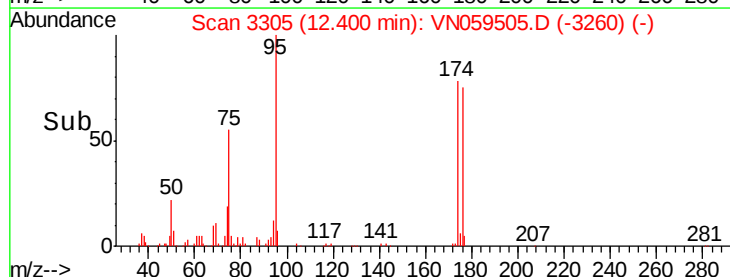
75 100

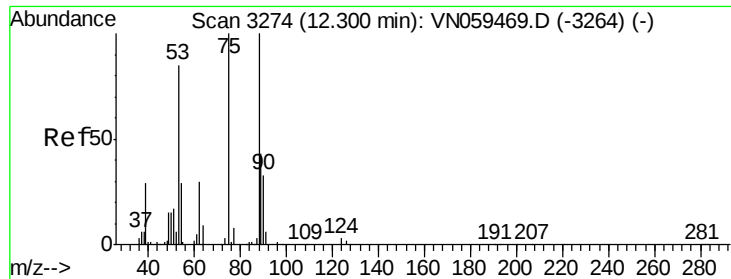
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.942 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampled :

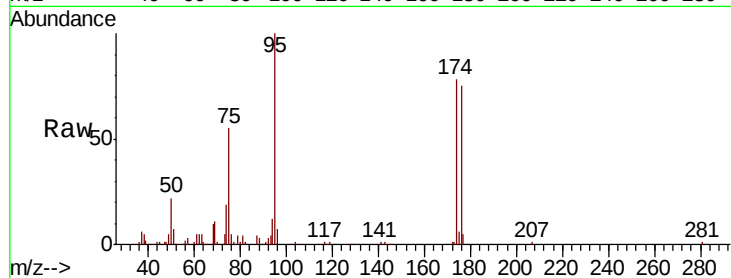
Tot Ion: 75 Resp: 67546

Ion Ratio Lower Upper

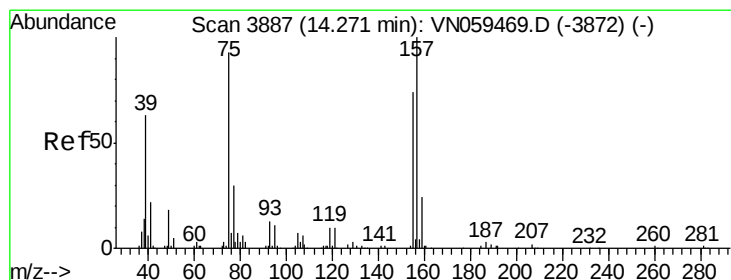
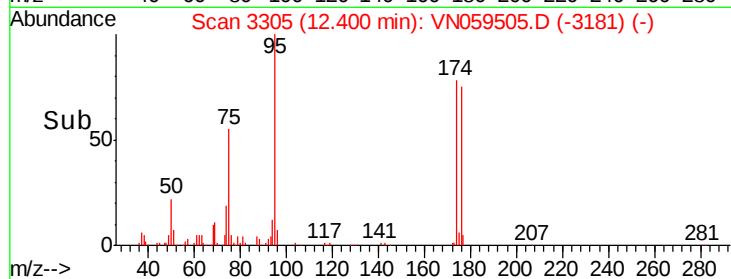
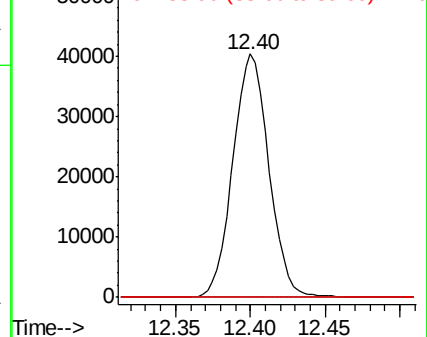
75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.459 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

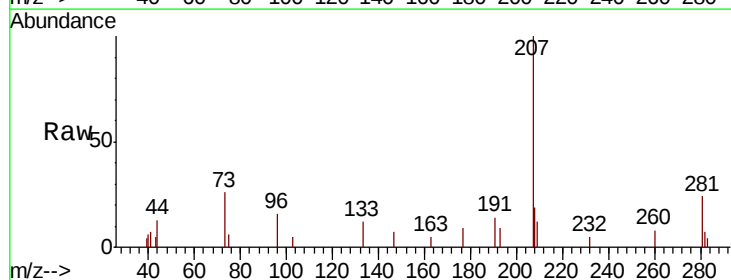
Tgt Ion: 75 Resp: 314

Ion Ratio Lower Upper

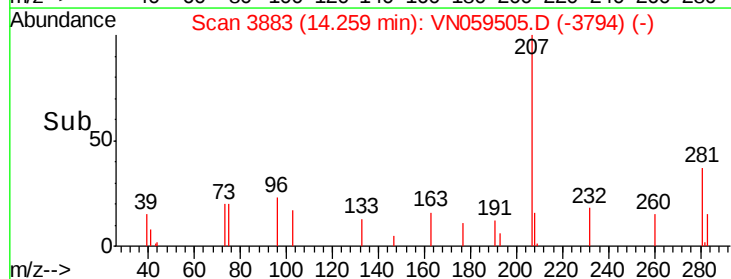
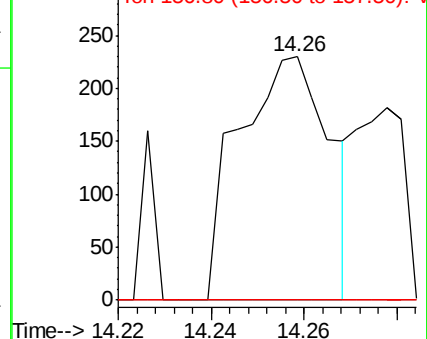
75 100

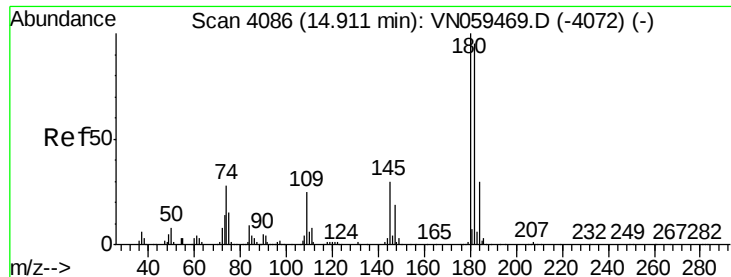
155 0.0 40.6 122.0#

157 0.0 52.9 158.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

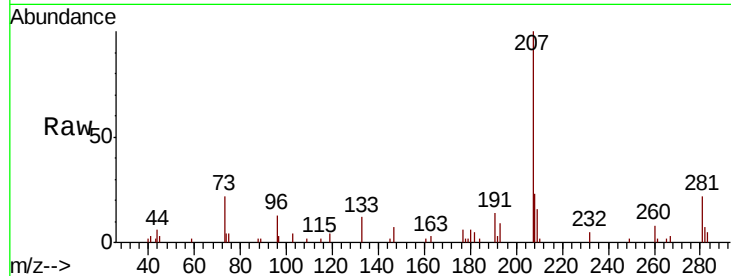




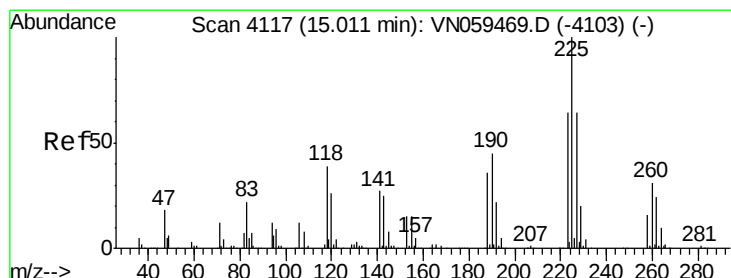
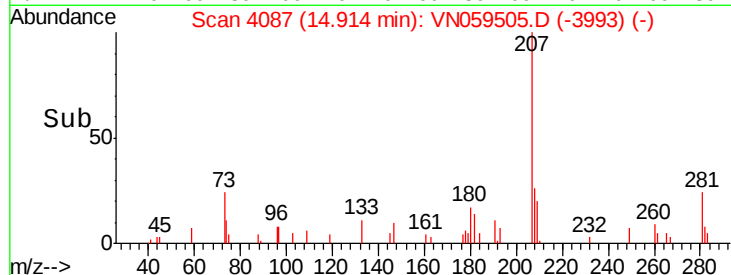
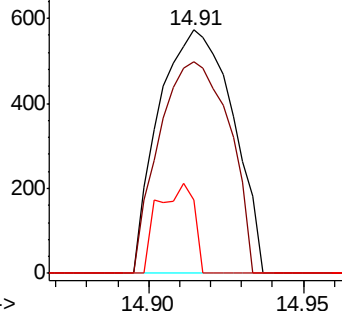
#93
 1,2,4-Trichlorobenzene
 Concen: 0.458 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059505.D
 Acq: 6 Dec 2019 11:00

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 952
 Ion Ratio Lower Upper
 180 100
 182 82.5 48.0 144.2
 145 18.3 15.2 45.6

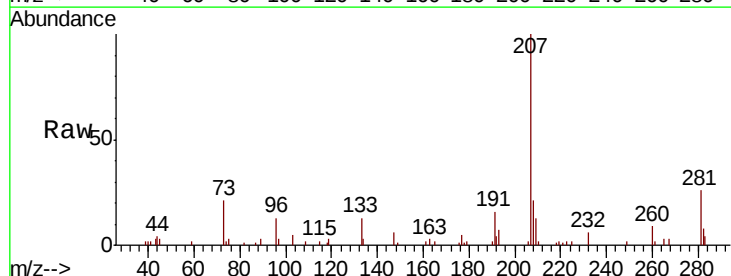


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

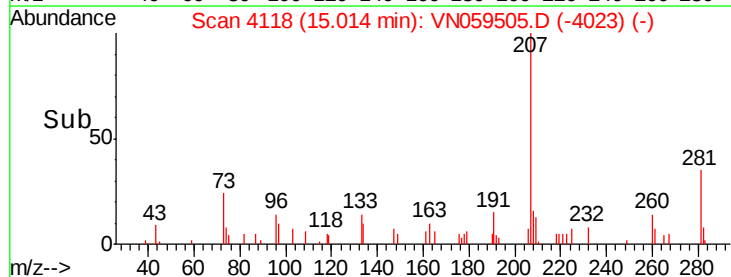
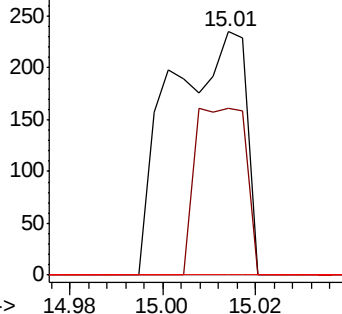


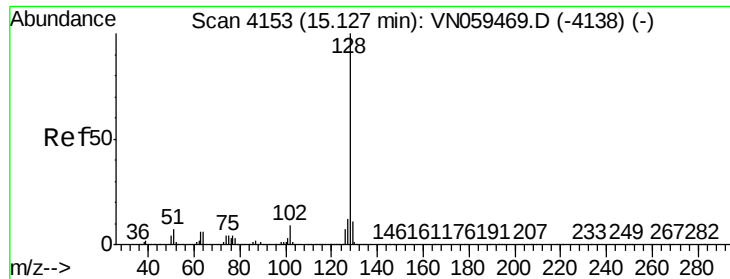
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059505.D
 Acq: 6 Dec 2019 11:00

Tgt Ion:225 Resp: 265
 Ion Ratio Lower Upper
 225 100
 223 46.4 31.9 95.5
 227 0.0 32.0 96.2#



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 3.283 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

Instrument :

MSVOA_N

ClientSampleId :

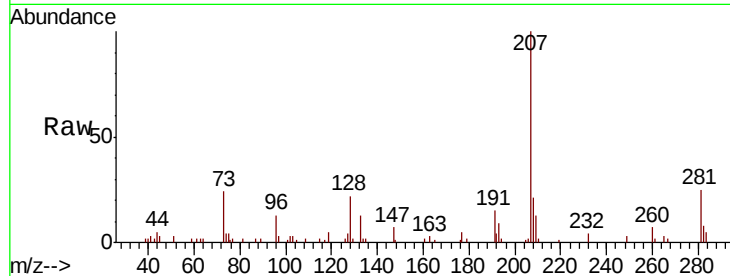
Tot Ion:128 Resp: 5146

Ion Ratio Lower Upper

128 100

127 10.5 10.2 15.4

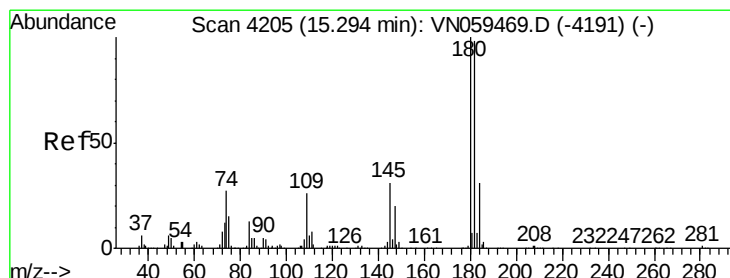
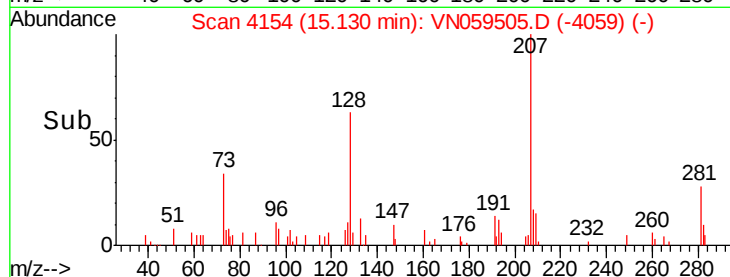
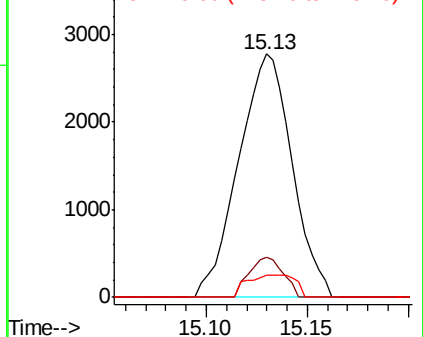
129 8.4 8.8 13.2#



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: 2.649 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.01 min

Lab File: VN059505.D

Acq: 6 Dec 2019 11:00

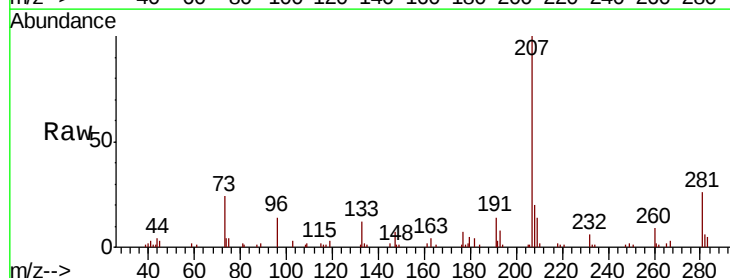
Tgt Ion:180 Resp: 1486

Ion Ratio Lower Upper

180 100

182 83.1 48.5 145.5

145 19.0 16.1 48.2



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

