

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112019\
 Data File : VN059324.D
 Acq On : 20 Nov 2019 13:35
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 06:15:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 06:09:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	403230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	641494	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	551624	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	216063	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	228648	47.26	ug/l	0.00
Spiked Amount						
			Recovery	=	94.52%	
35) Dibromofluoromethane	7.57	113	177151	46.03	ug/l	0.00
Spiked Amount						
			Recovery	=	92.06%	
50) Toluene-d8	10.08	98	693669	45.34	ug/l	0.00
Spiked Amount						
			Recovery	=	90.68%	
62) 4-Bromofluorobenzene	12.40	95	226599	42.36	ug/l	0.00
Spiked Amount						
			Recovery	=	84.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1354	0.214	ug/l	93
5) Bromomethane	2.55	94	1852	0.515	ug/l	96
10) Methyl Iodide	3.93	142	1458	0.274	ug/l #	57
13) Acrolein	3.59	56	1758	1.988	ug/l	95
15) Acrylonitrile	4.96	53	2389	0.933	ug/l #	92
16) Acetone	3.80	43	1521	0.701	ug/l #	85
17) Carbon Disulfide	4.03	76	14011	1.164	ug/l #	91
20) Methylene Chloride	4.53	84	1202	0.246	ug/l	87
21) trans-1,2-Dichloroethene	5.02	96	1787	0.387	ug/l	89
23) Vinyl Acetate	5.88	43	2613	0.217	ug/l #	73
28) Bromochloromethane	7.17	49	410	2.463	ug/l #	76
29) Tetrahydrofuran	7.20	42	910	0.390	ug/l #	62
30) Chloroform	7.35	83	4726	0.428	ug/l	91
31) Cyclohexane	7.65	56	8147	0.956	ug/l #	1
36) 1,1-Dichloropropene	7.78	75	1542	0.233	ug/l #	82
38) Carbon Tetrachloride	7.64	117	37354	5.892	ug/l #	16
41) Methacrylonitrile	7.18	41	769	0.243	ug/l #	100
44) Trichloroethene	8.82	130	1497	0.304	ug/l	98
49) 1,4-Dioxane	9.18	88	258	3.471	ug/l #	50
51) 4-Methyl-2-Pentanone	9.98	43	3658	0.575	ug/l	88
53) t-1,3-Dichloropropene	10.38	75	1852	0.250	ug/l #	33
56) Ethyl methacrylate	10.42	69	790	2.291	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.69	63	718	23.015	ug/l #	66
59) 2-Hexanone	10.75	43	6045	1.297	ug/l	91
64) Tetrachloroethene	10.63	164	1316	0.308	ug/l	95
65) Chlorobenzene	11.43	112	3178	0.268	ug/l	91
68) m/p-Xylenes	11.62	106	3208	0.408	ug/l	95
70) Styrene	11.97	104	3018	0.254	ug/l	95
74) N-amyl acetate	12.07	43	3631	0.510	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.50	83	1624	0.277	ug/l #	94
76) 1,2,3-Trichloropropane	12.40	75	109673	21.972	ug/l #	100
77) Bromobenzene	12.52	156	1923	0.448	ug/l	92
78) n-propylbenzene	12.59	91	6484	0.323	ug/l	99
79) 2-Chlorotoluene	12.68	91	3844	0.312	ug/l	100

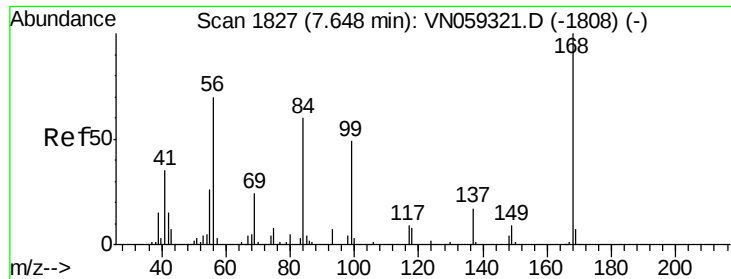
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112019\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) 1,3,5-Trimethylbenzene	12.74	105	3486	0.234	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	109673	54.954	ug/l #	14
82) 4-Chlorotoluene	12.78	91	6317	0.496	ug/l	99
83) tert-Butylbenzene	12.99	119	2650	0.211	ug/l	93
84) 1,2,4-Trimethylbenzene	13.04	105	4789	0.329	ug/l	94
85) sec-Butylbenzene	13.17	105	5058	0.299	ug/l	96
86) p-Isopropyltoluene	13.29	119	5563	0.370	ug/l	96
87) 1,3-Dichlorobenzene	13.29	146	5505	0.720	ug/l	92
88) 1,4-Dichlorobenzene	13.29	146	5505	0.728	ug/l	93
89) n-Butylbenzene	13.62	91	8638	0.655	ug/l	100
90) Hexachloroethane	13.88	117	665	0.234	ug/l	67
91) 1,2-Dichlorobenzene	13.66	146	5434	0.735	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1904	1.530	ug/l	66
93) 1,2,4-Trichlorobenzene	14.91	180	11568	5.305	ug/l	99
94) Hexachlorobutadiene	15.01	225	3610	1.355	ug/l	93
95) Naphthalene	15.13	128	56825	7.346	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	15627	5.231	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

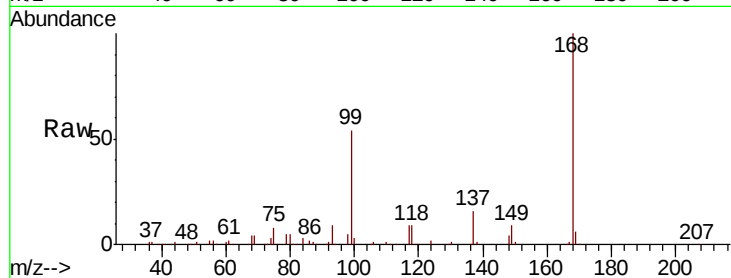
ClientSampleId :

Tot Ion:168 Resp: 403230

Ion Ratio Lower Upper

168 100

99 54.1 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

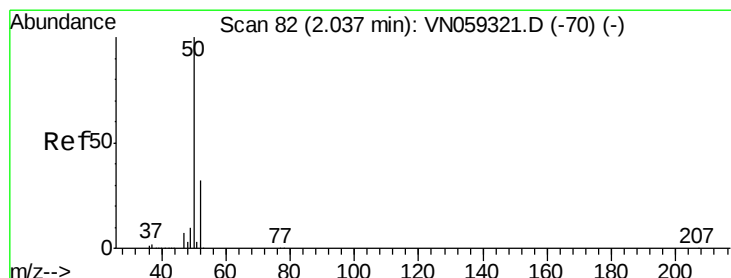
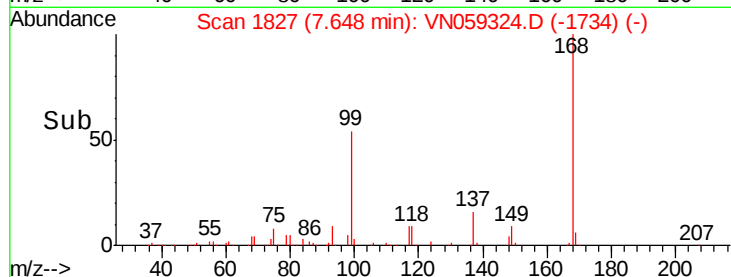
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.214 ug/l

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN059324.D

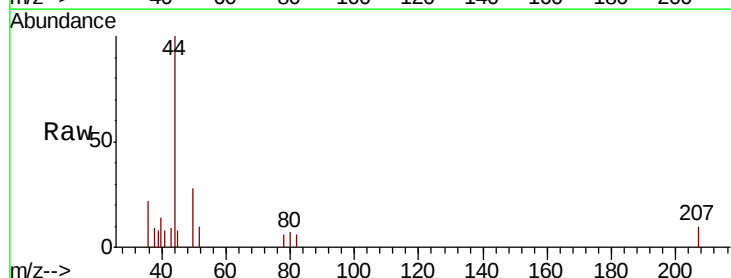
Acq: 20 Nov 2019 13:35

Tgt Ion: 50 Resp: 1354

Ion Ratio Lower Upper

50 100

52 36.4 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1000

800

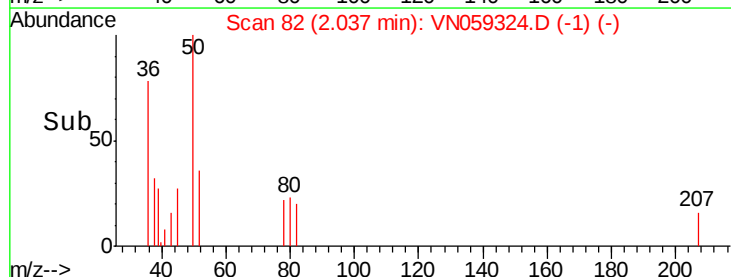
600

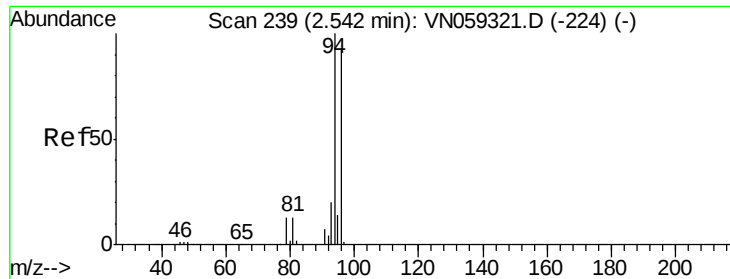
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.515 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

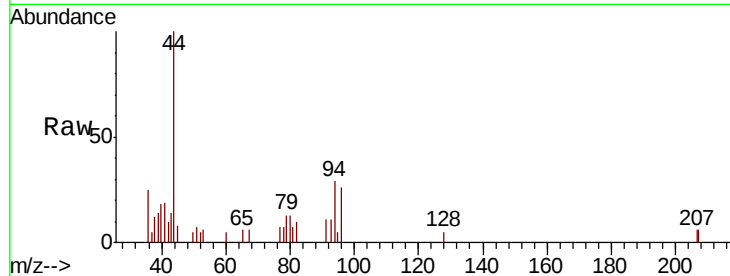
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 1852

Ion Ratio Lower Upper

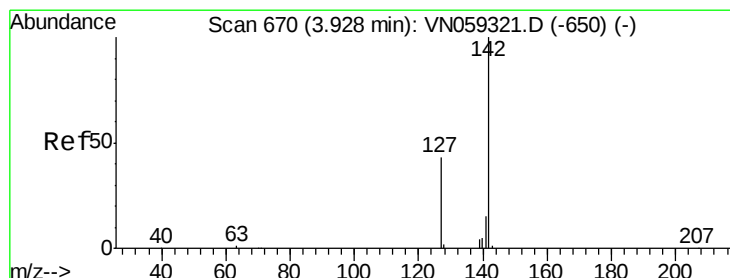
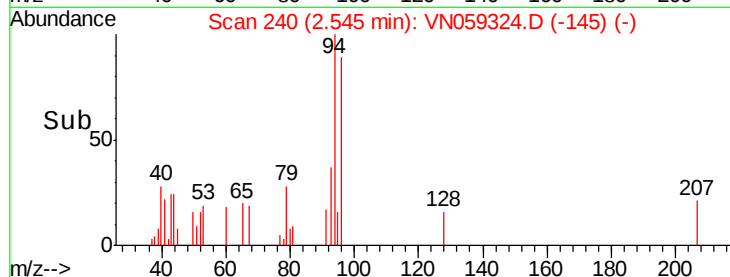
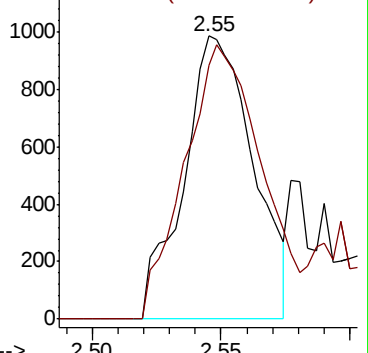
94 100

96 89.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.274 ug/l

RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

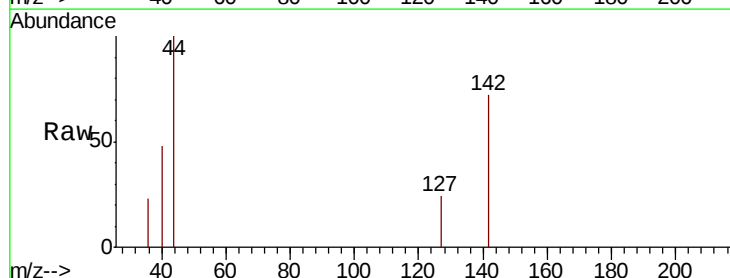
Tgt Ion:142 Resp: 1458

Ion Ratio Lower Upper

142 100

127 13.2 33.8 50.6#

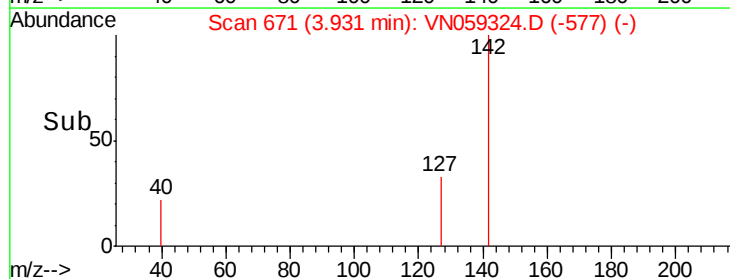
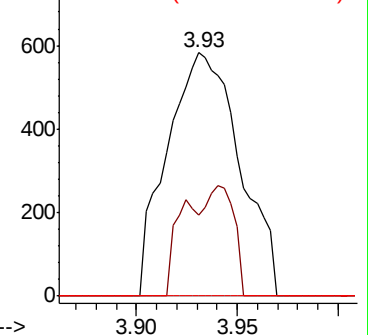
141 0.0 11.2 16.8#

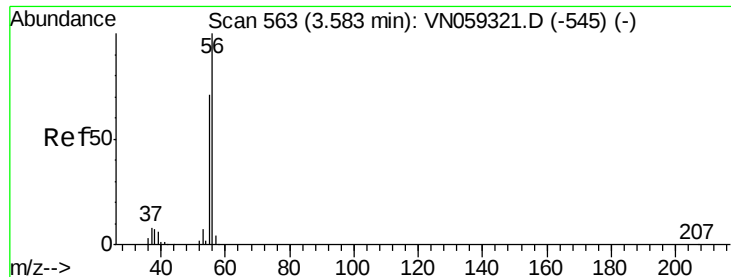


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 1.988 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

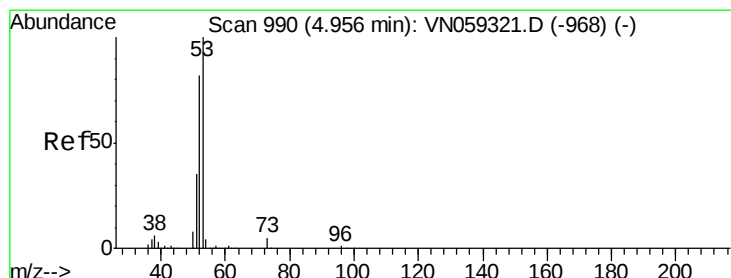
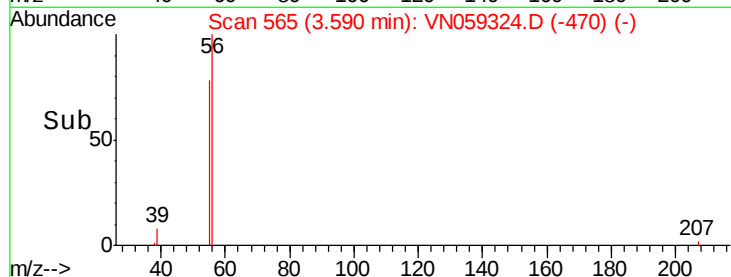
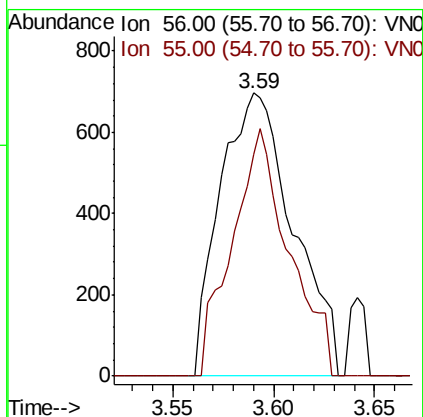
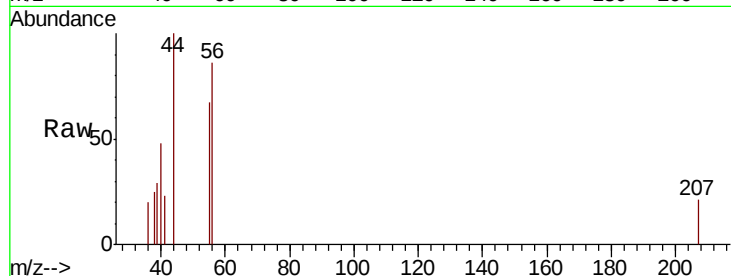
ClientSampleId :

Tot Ion: 56 Resp: 1758

Ion Ratio Lower Upper

56 100

55 67.6 57.4 86.0



#15

Acrylonitrile

Concen: 0.933 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.01 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

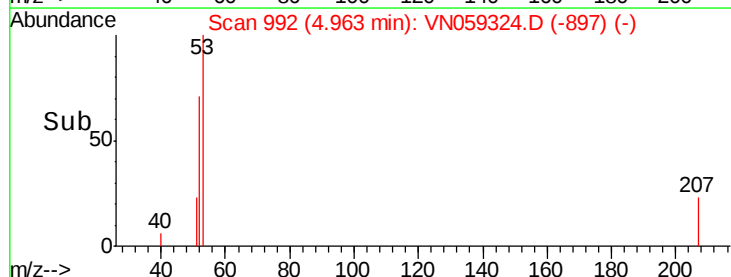
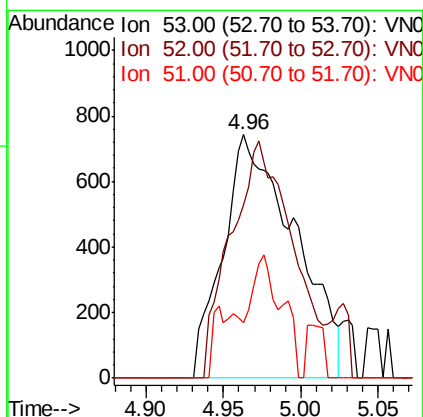
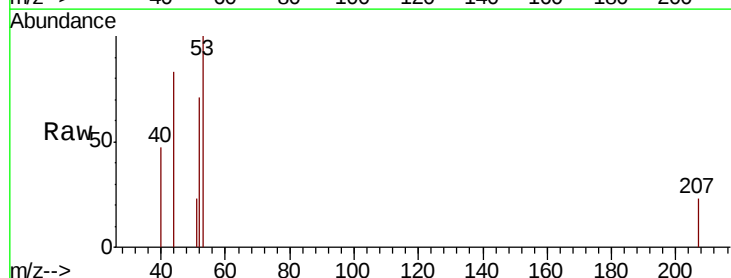
Tgt Ion: 53 Resp: 2389

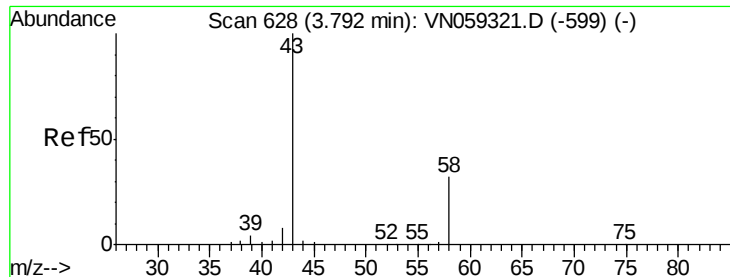
Ion Ratio Lower Upper

53 100

52 83.8 65.8 98.8

51 21.3 28.2 42.2#





#16

Acetone

Concen: 0.701 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

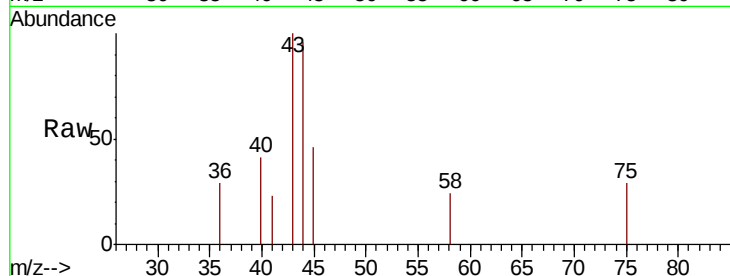
ClientSampled :

Tot Ion: 43 Resp: 1521

Ion Ratio Lower Upper

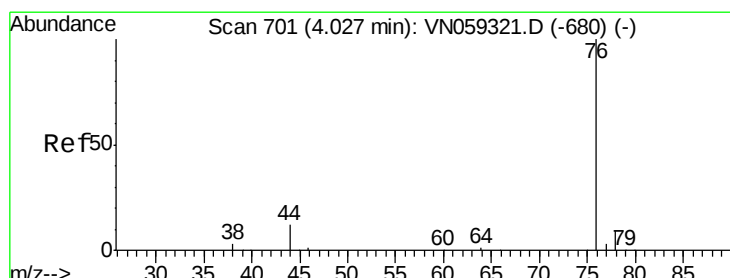
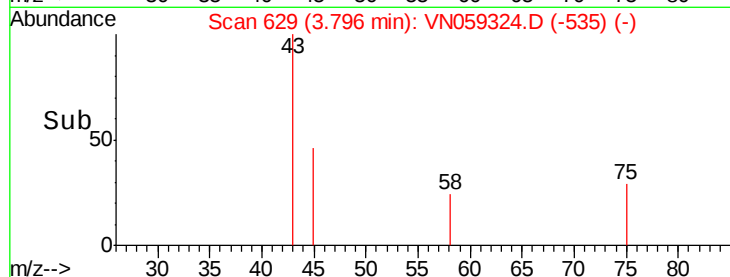
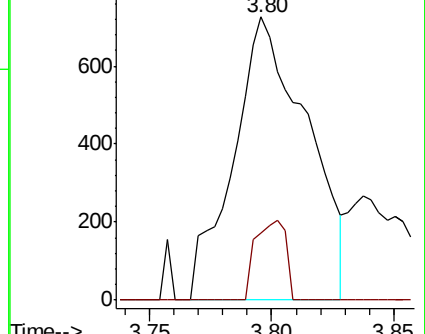
43 100

58 23.8 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 1.164 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN059324.D

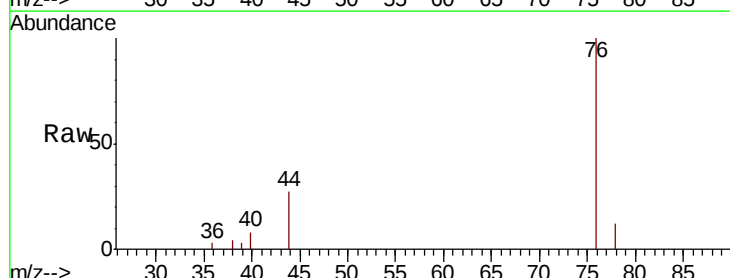
Acq: 20 Nov 2019 13:35

Tgt Ion: 76 Resp: 14011

Ion Ratio Lower Upper

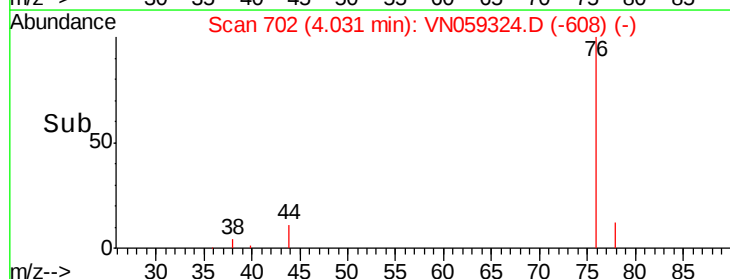
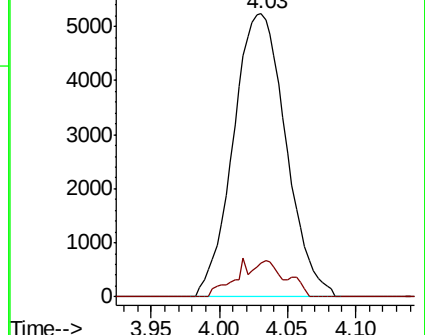
76 100

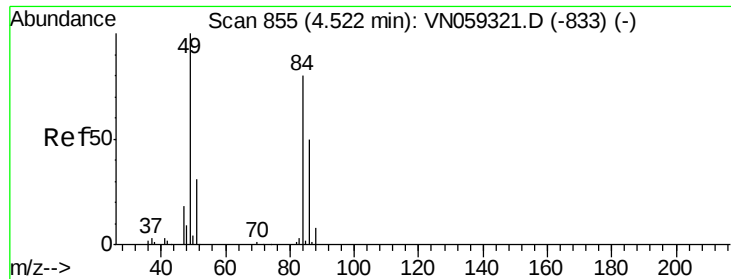
78 12.1 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

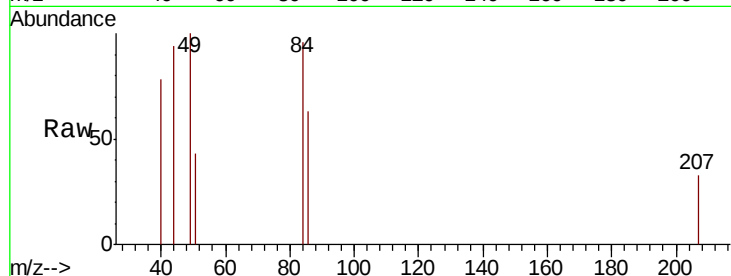




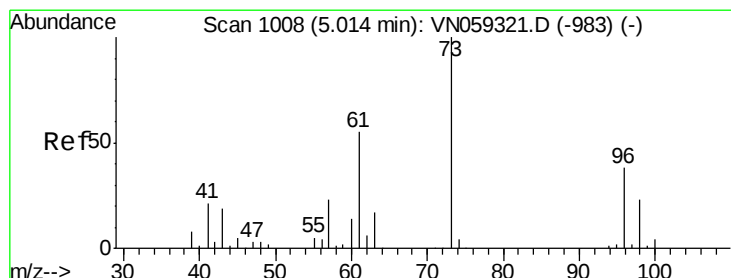
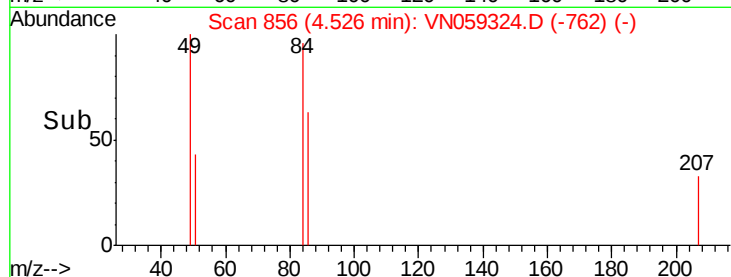
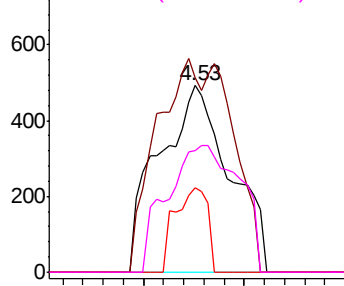
#20
Methvlene Chloride
Concen: 0.246 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 1202
Ion Ratio Lower Upper
84 100
49 104.5 99.5 149.3
51 45.1 31.1 46.7
86 65.4 49.9 74.9

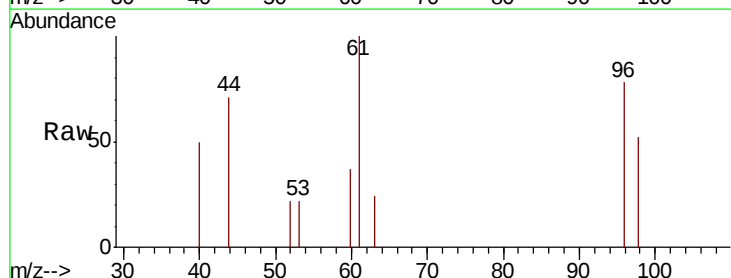


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

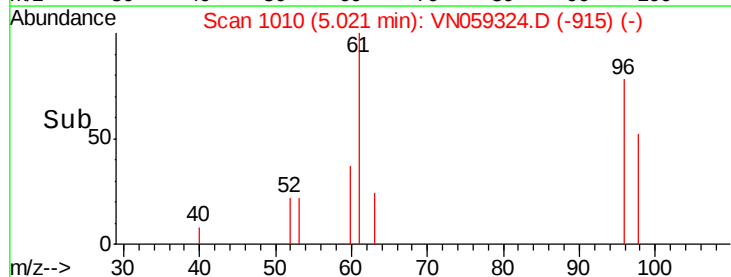
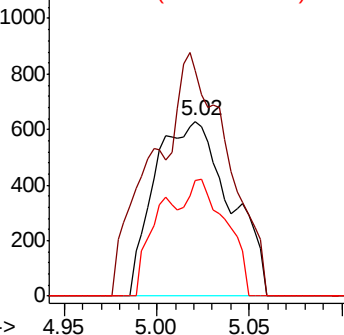


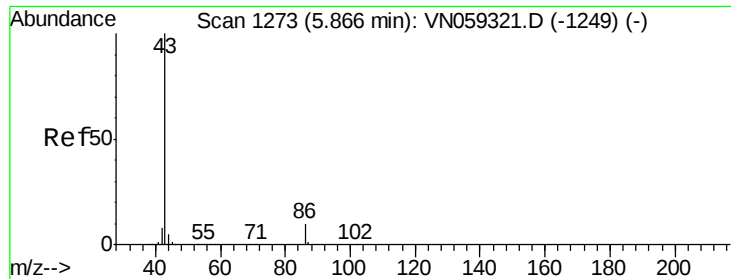
#21
trans-1,2-Dichloroethene
Concen: 0.387 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.01 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion: 96 Resp: 1787
Ion Ratio Lower Upper
96 100
61 128.8 116.4 174.6
98 66.4 49.6 74.4



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO





#23

Vinyl Acetate

Concen: 0.217 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.01 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

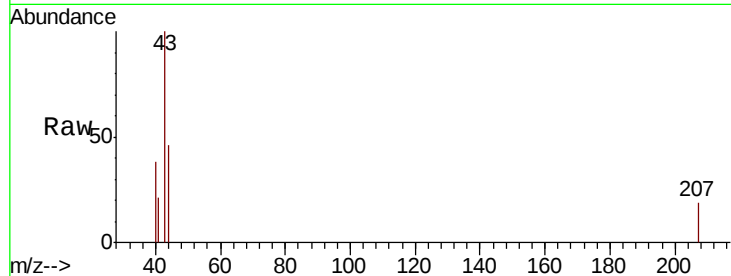
ClientSampled :

Tot Ion: 43 Resp: 2613

Ion Ratio Lower Upper

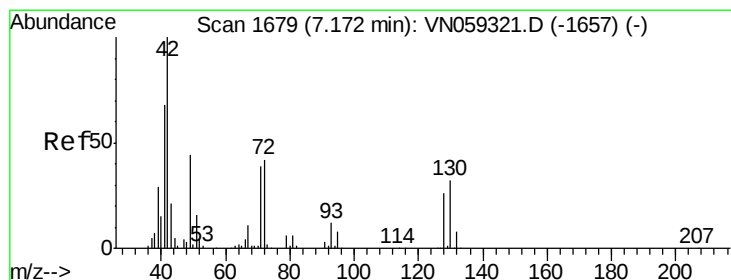
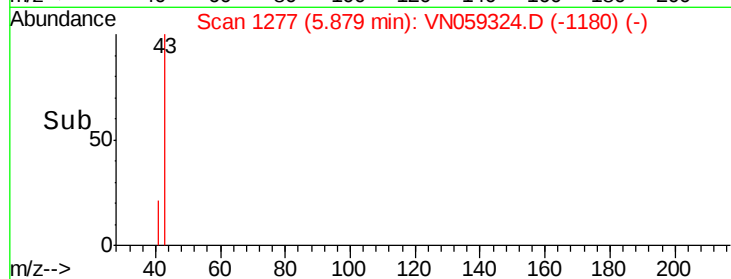
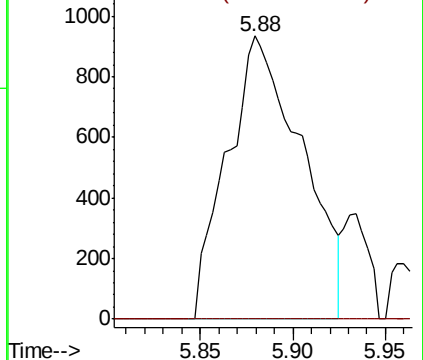
43 100

86 0.0 8.0 12.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#28

Bromochloromethane

Concen: 2.463 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

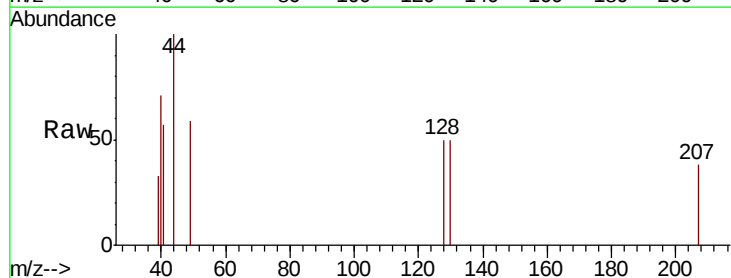
Tgt Ion: 49 Resp: 410

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

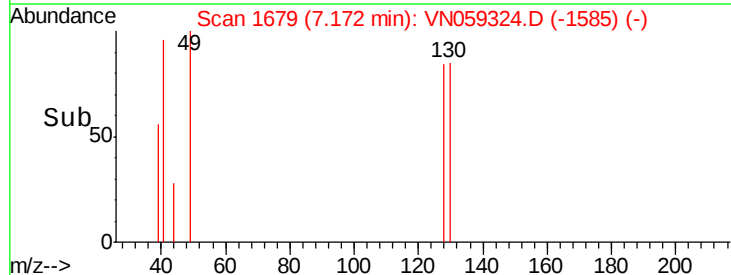
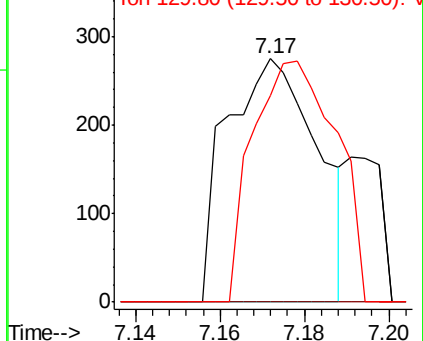
130 91.5 57.0 85.6#

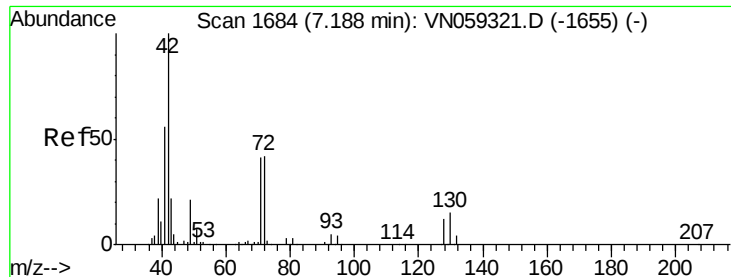


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

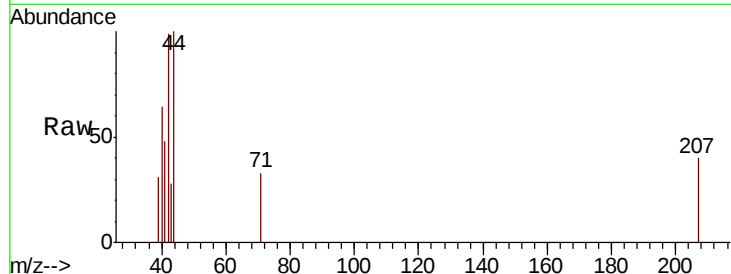




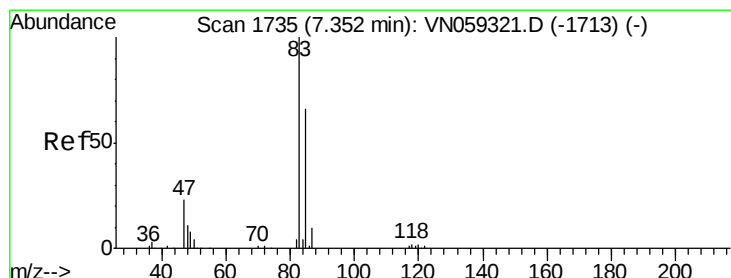
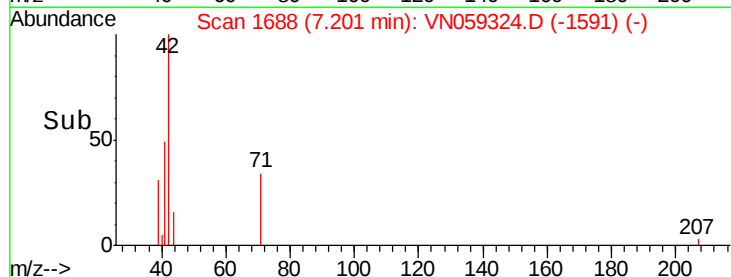
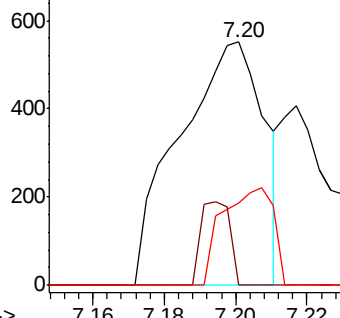
#29
Tetrahydrofuran
Concen: 0.390 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 910
Ion Ratio Lower Upper
42 100
72 11.6 34.2 51.2#
71 23.8 32.6 48.8#

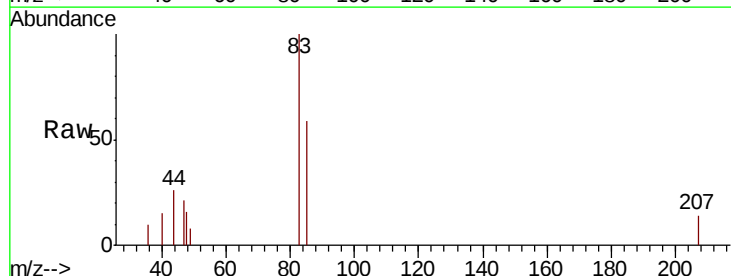


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

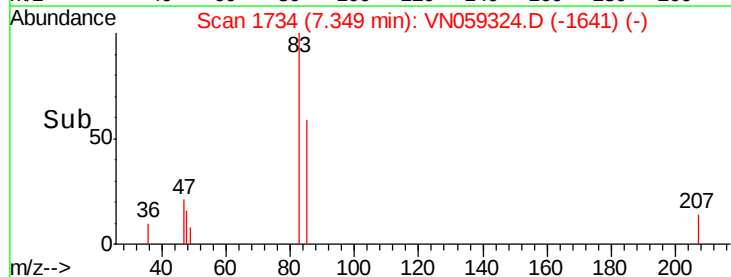
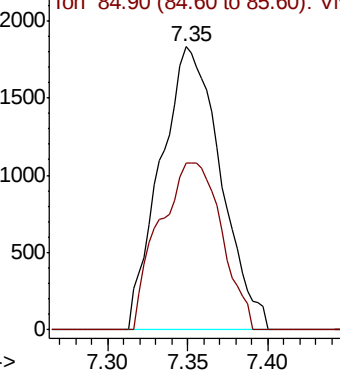


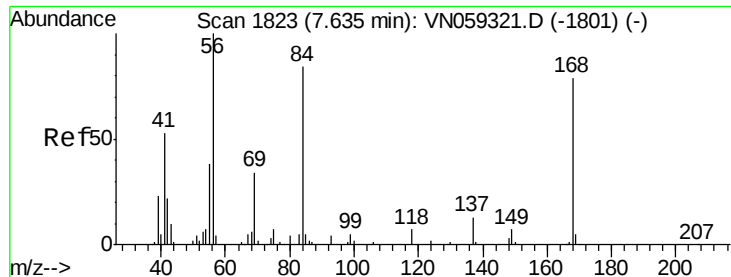
#30
Chloroform
Concen: 0.428 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion: 83 Resp: 4726
Ion Ratio Lower Upper
83 100
85 58.9 52.7 79.1



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO





#31

Cyclohexane

Concen: 0.956 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampled :

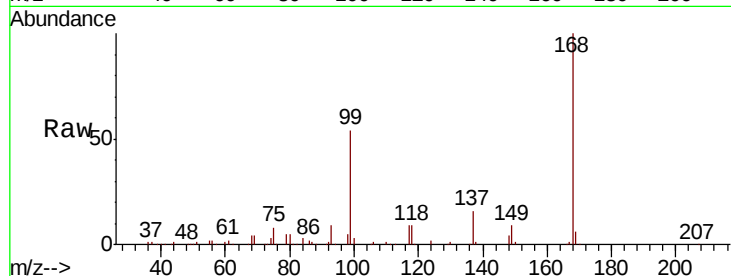
Tot Ion: 56 Resp: 8147

Ion Ratio Lower Upper

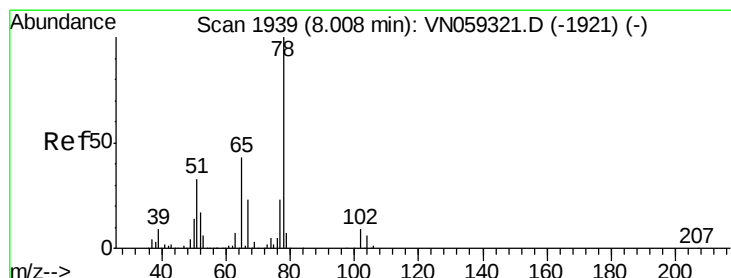
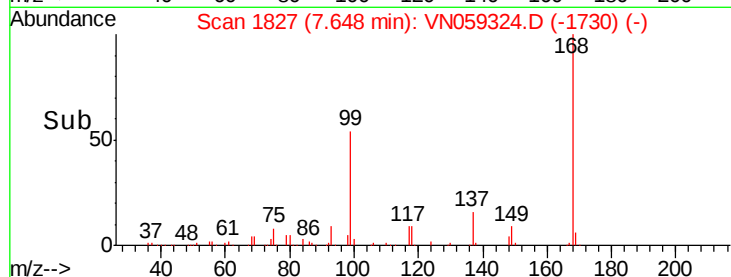
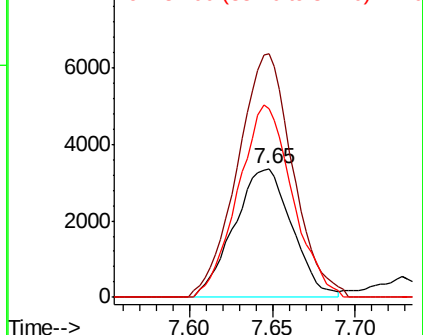
56 100

69 188.8 26.6 40.0#

84 146.0 67.0 100.4#



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: 47.260 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059324.D

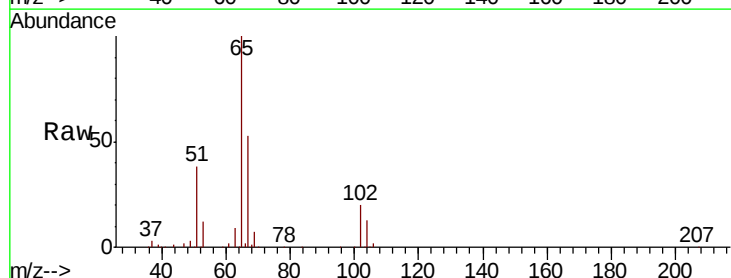
Acq: 20 Nov 2019 13:35

Tgt Ion: 65 Resp: 228648

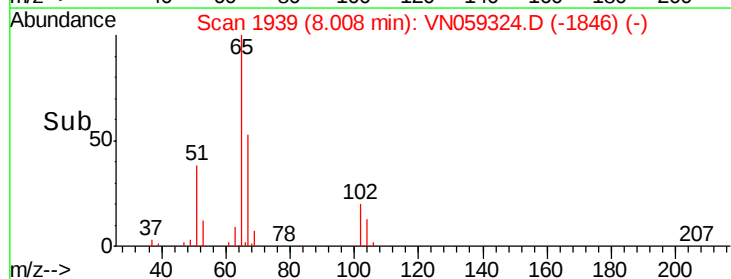
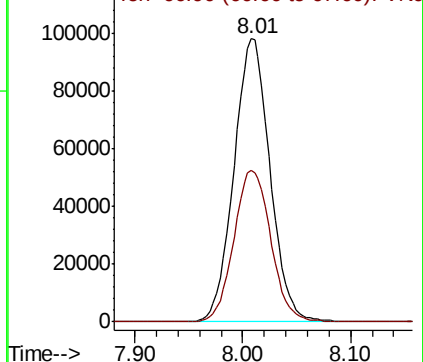
Ion Ratio Lower Upper

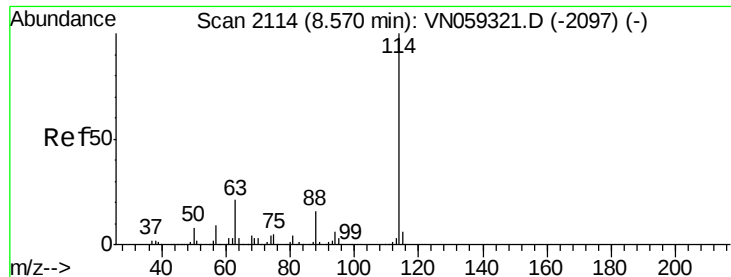
65 100

67 54.8 0.0 109.4



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

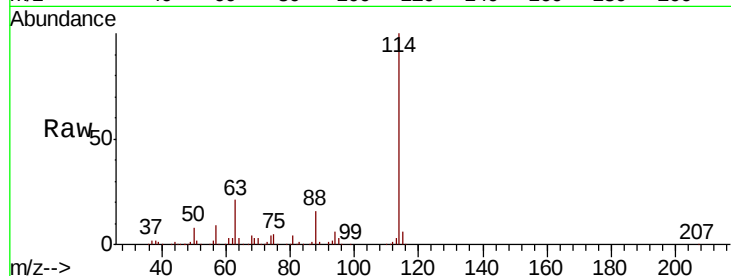




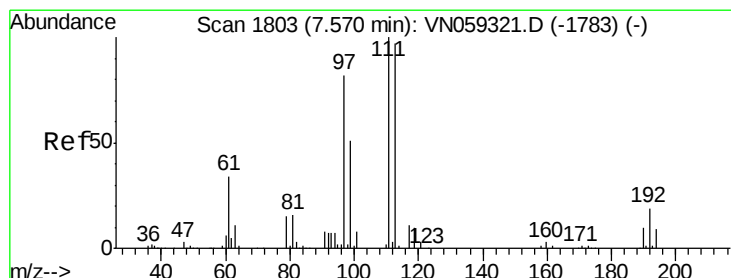
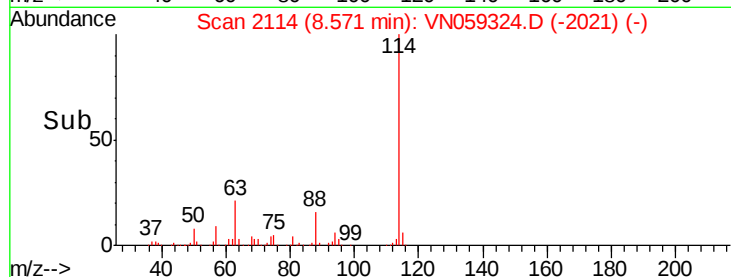
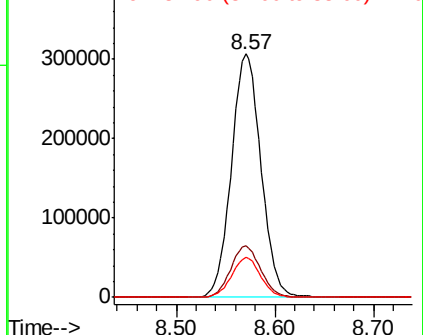
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.2
88	16.3	0.0	32.2

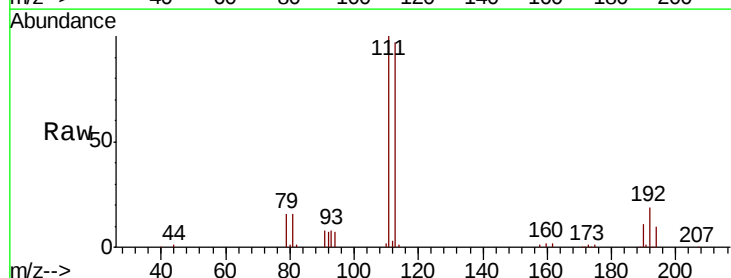


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

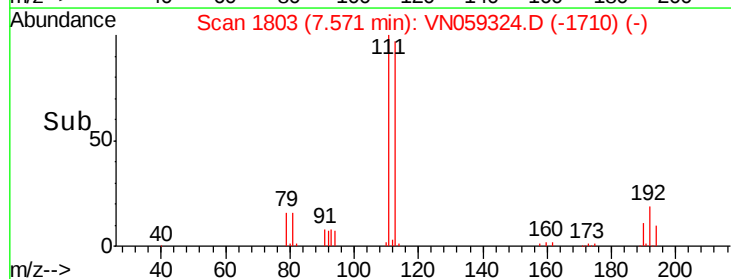
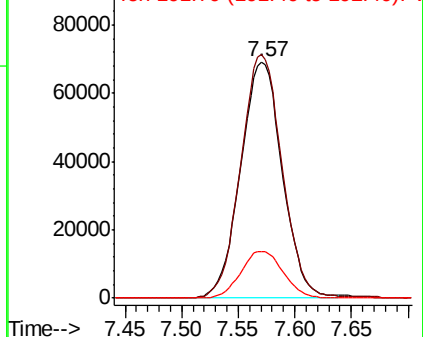


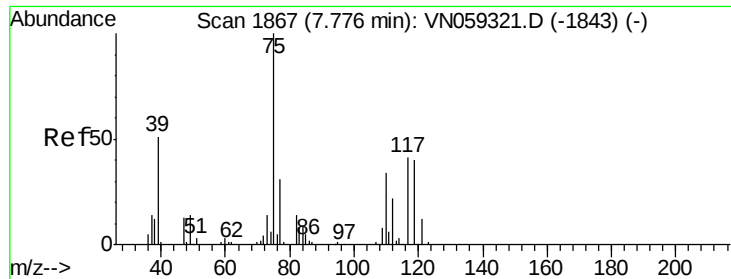
#35
Dibromofluoromethane
Concen: 46.030 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.7	124.1
192	20.0	16.3	24.5



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

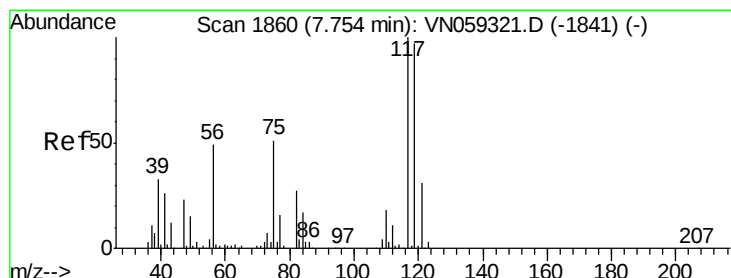
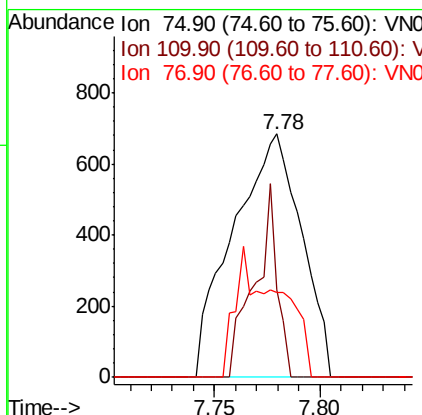
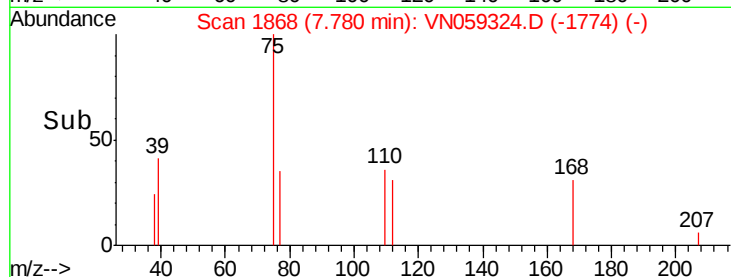
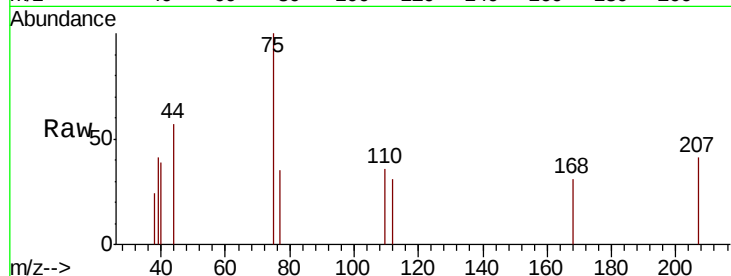




#36
 1,1-Dichloropropene
 Concen: 0.233 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

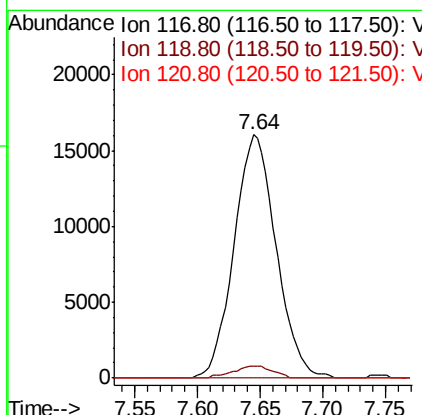
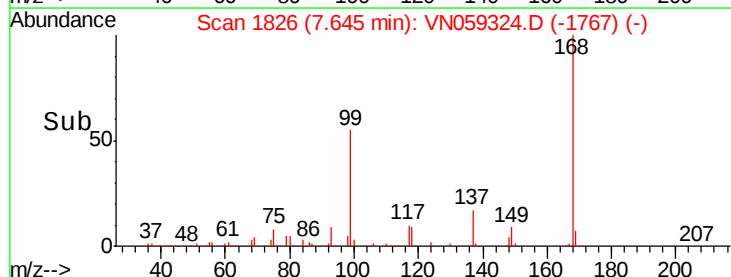
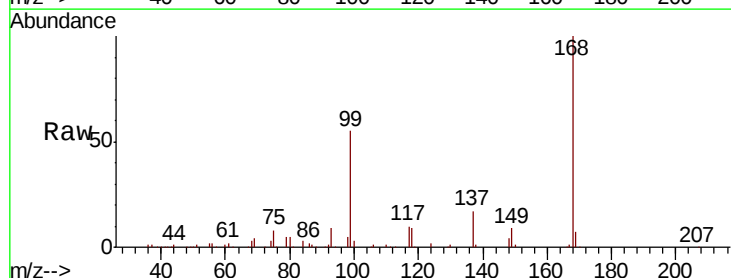
Instrument :
 MSVOA_N
 ClientSampled :

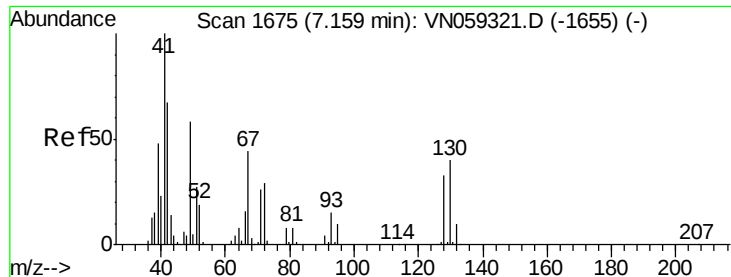
Tot Ion	Ratio	Lower	Upper
75	100		
110	26.3	17.0	51.0
77	18.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 5.892 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.0	115.4#
121	0.0	24.4	36.6#





#41

Methacrylonitrile

Concen: 0.243 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.02 min

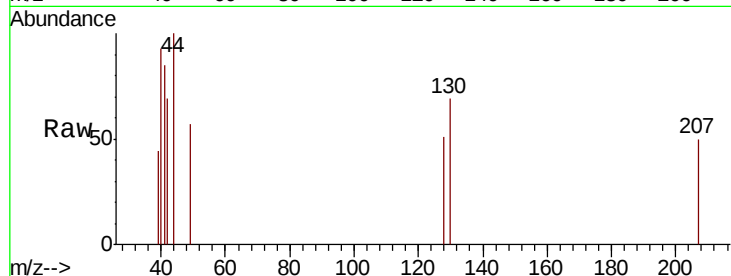
Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 769

Ion	Ratio	Lower	Upper
41	100		
39	41.1	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

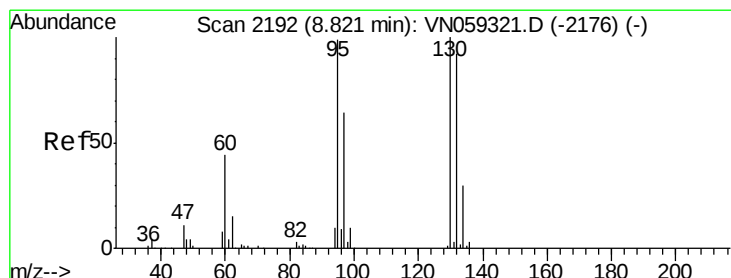
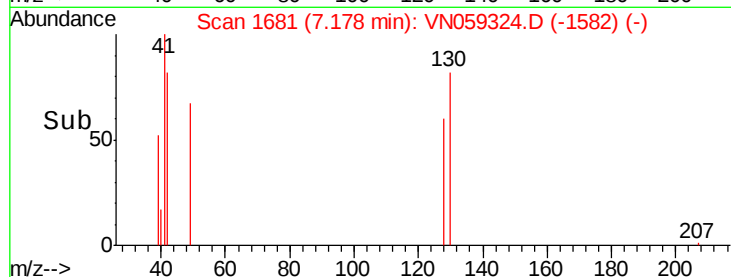
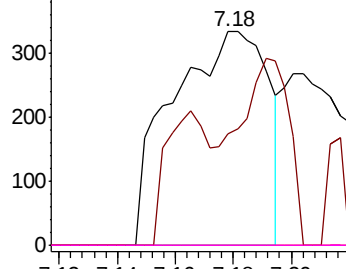


Abundance Ion 41.00 (40.70 to 41.70): VN059321.D (-1655) (-)

Ion 39.00 (38.70 to 39.70): VN059321.D (-1655) (-)

Ion 67.00 (66.70 to 67.70): VN059321.D (-1655) (-)

Ion 52.00 (51.70 to 52.70): VN059321.D (-1655) (-)



#44

Trichloroethene

Concen: 0.304 ug/l

RT: 8.82 min Scan# 2193

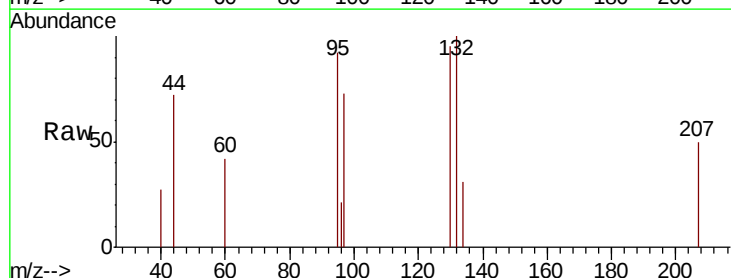
Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

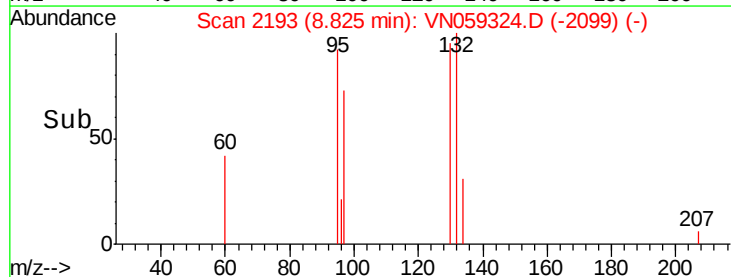
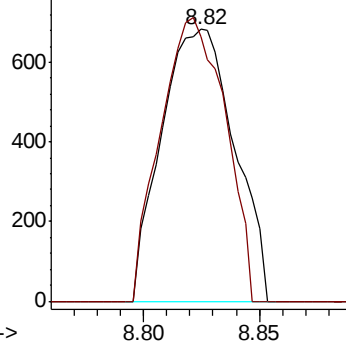
Tgt Ion: 130 Resp: 1497

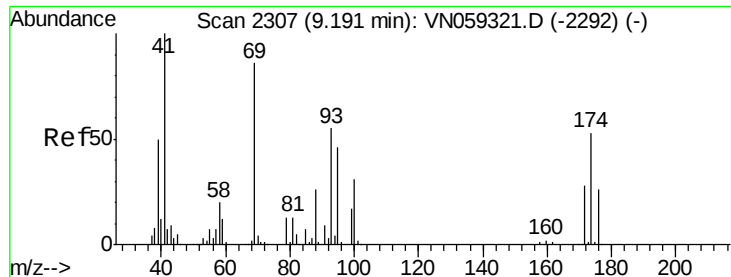
Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	198.4



Abundance Ion 129.80 (129.50 to 130.50): VN059321.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN059321.D (-2176) (-)

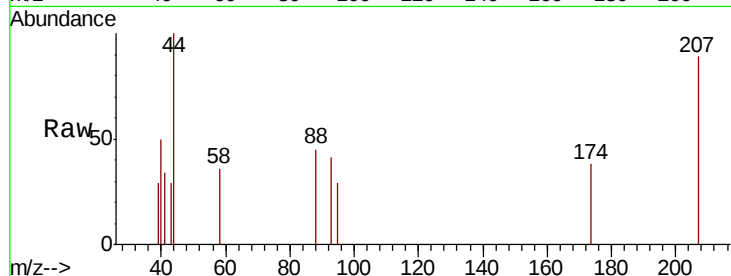




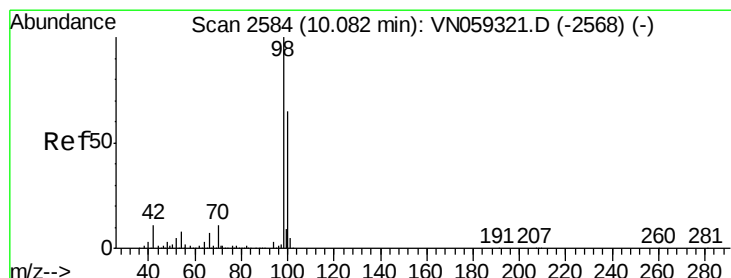
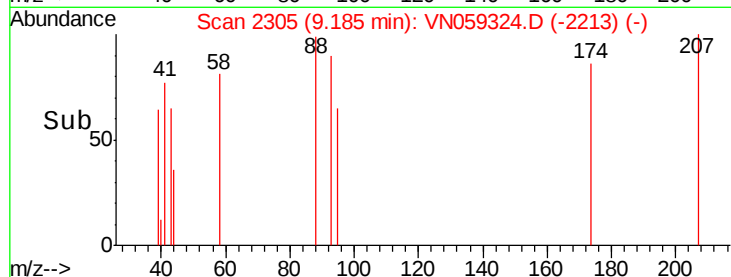
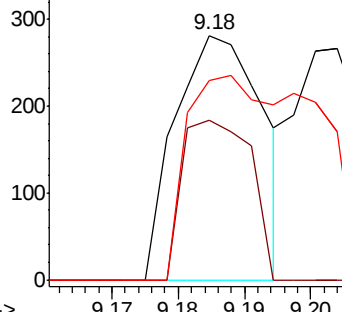
#49
1,4-Dioxane
Concen: 3.471 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 258
Ion Ratio Lower Upper
88 100
43 51.2 26.9 40.3#
58 123.6 59.2 88.8#

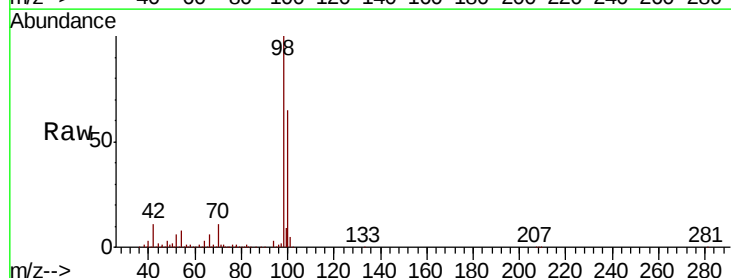


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

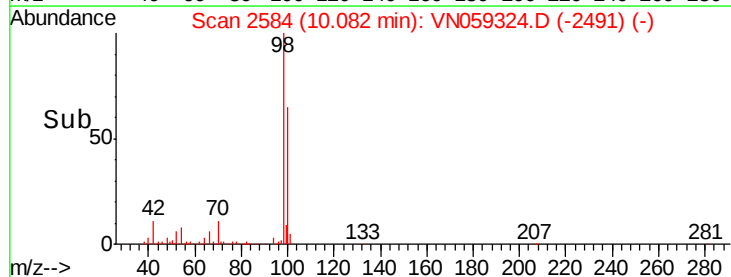
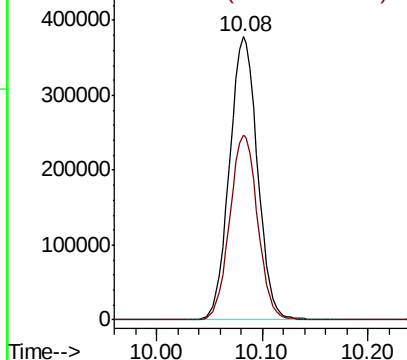


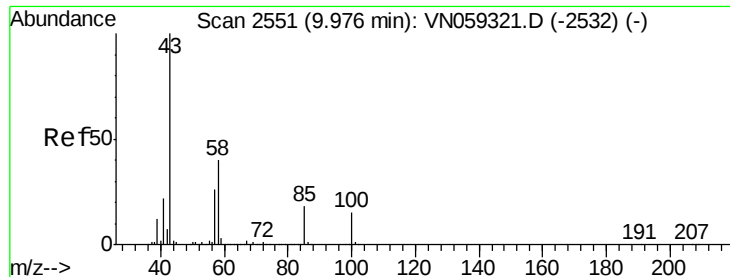
#50
Toluene-d8
Concen: 45.338 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion: 98 Resp: 693669
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

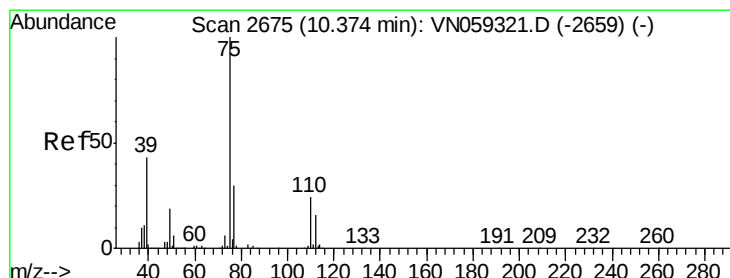
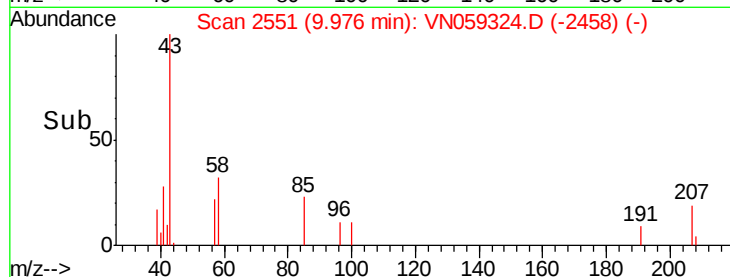
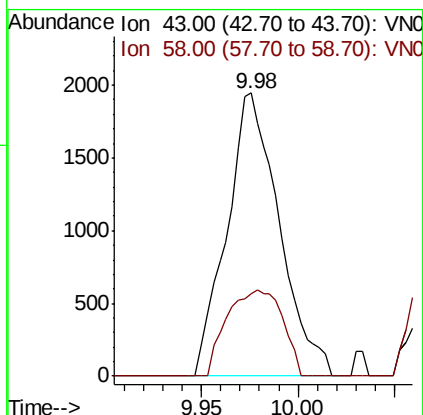
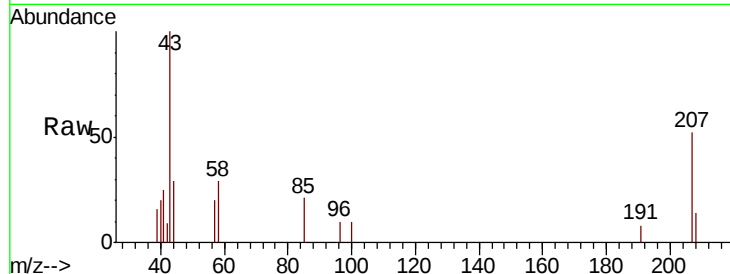




#51
 4-Methyl-2-Pentanone
 Concen: 0.575 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

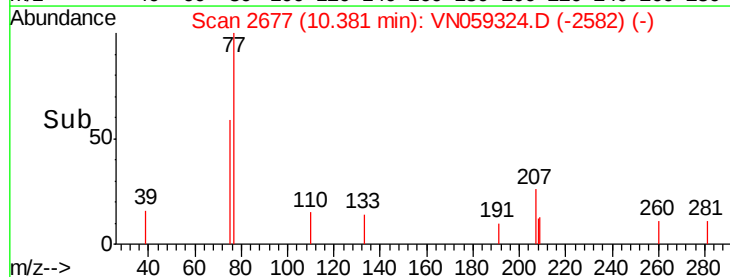
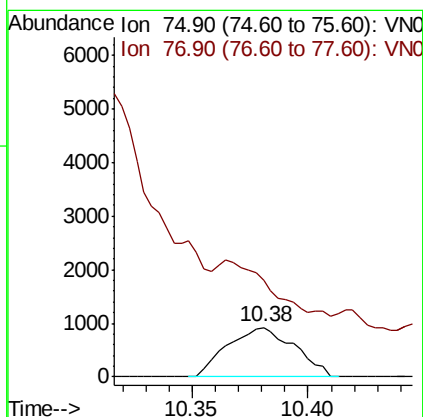
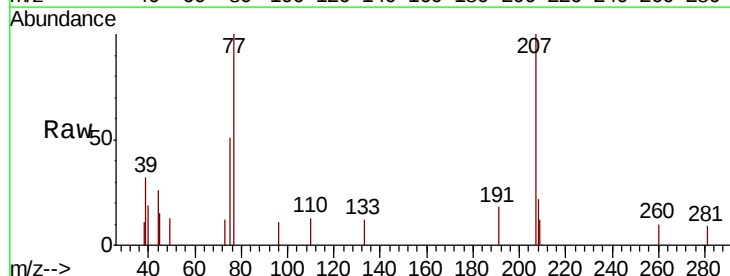
Instrument :
 MSVOA_N
 ClientSampled :

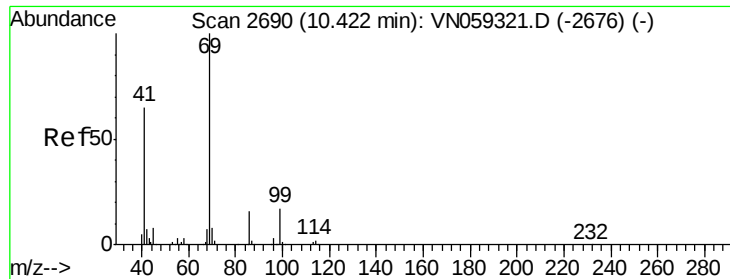
Tot Ion: 43 Resp: 3658
 Ion Ratio Lower Upper
 43 100
 58 32.3 31.8 47.8



#53
 t-1,3-Dichloropropene
 Concen: 0.250 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.01 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Tgt Ion: 75 Resp: 1852
 Ion Ratio Lower Upper
 75 100
 77 69.4 25.5 38.3#





#56

Ethyl methacrylate

Concen: 2.291 ug/l

RT: 10.42 min Scan# 2690

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

ClientSampled :

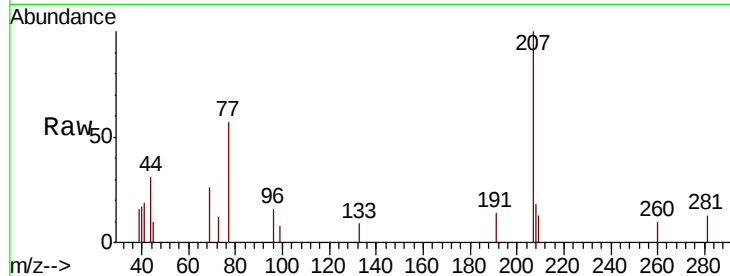
Tot Ion: 69 Resp: 790

Ion Ratio Lower Upper

69 100

41 109.6 51.7 77.5#

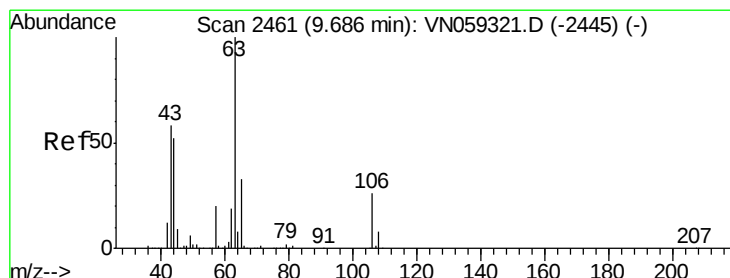
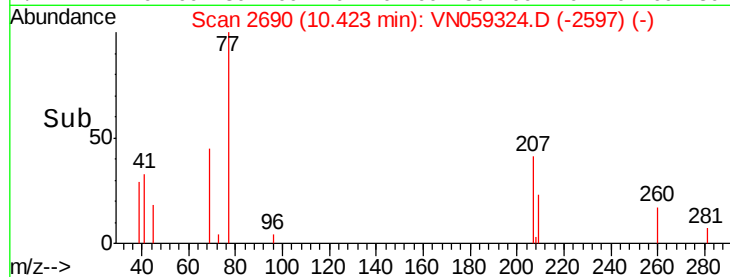
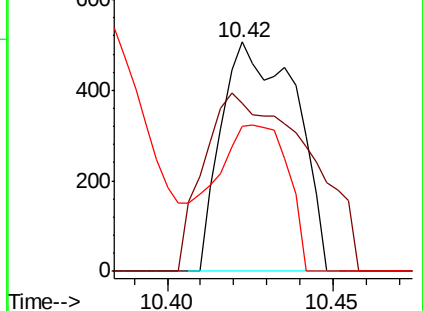
39 62.2 25.2 37.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 23.015 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059324.D

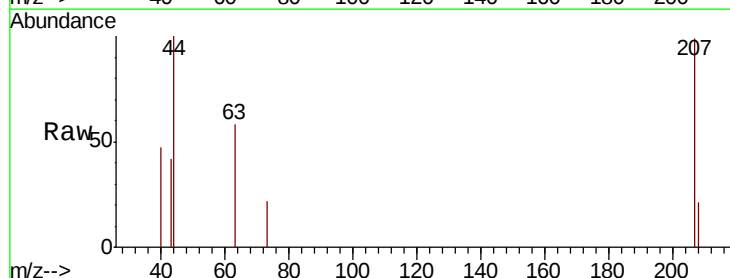
Acq: 20 Nov 2019 13:35

Tgt Ion: 63 Resp: 718

Ion Ratio Lower Upper

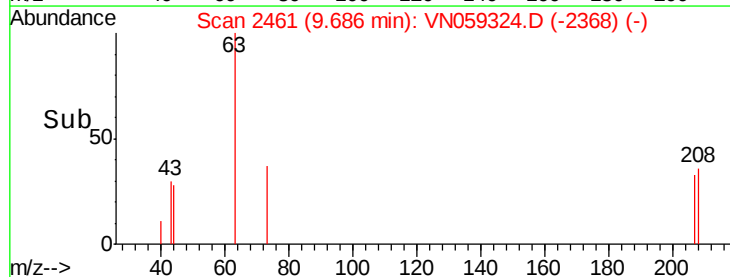
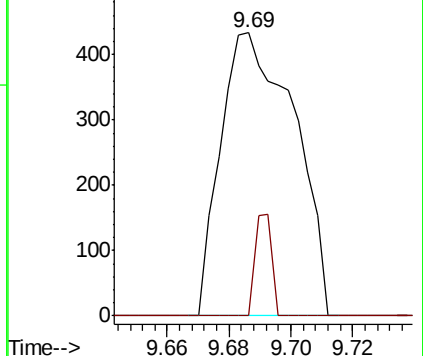
63 100

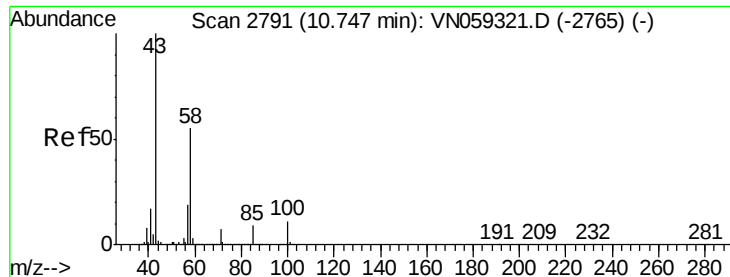
106 8.4 20.5 30.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

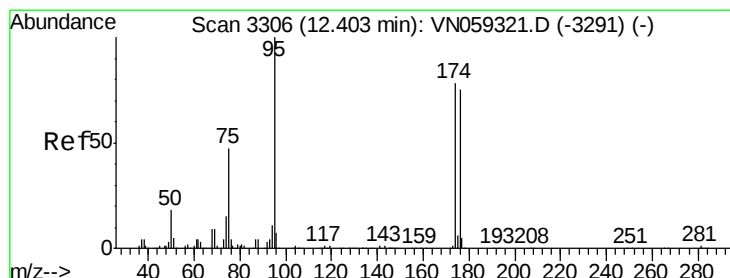
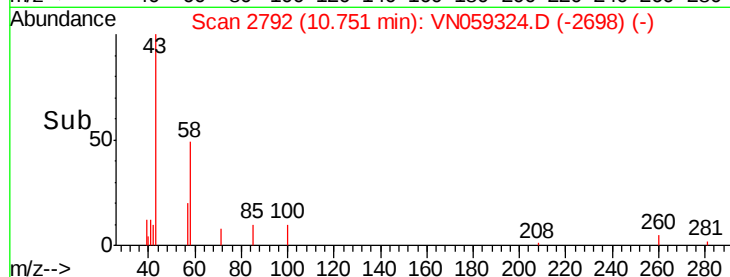
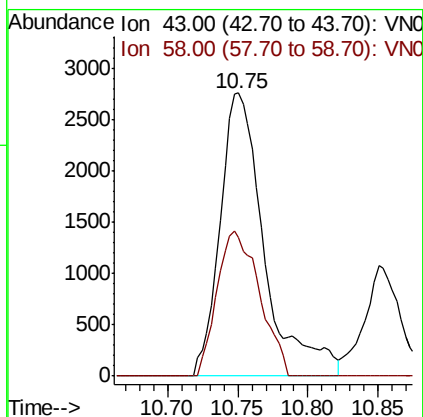
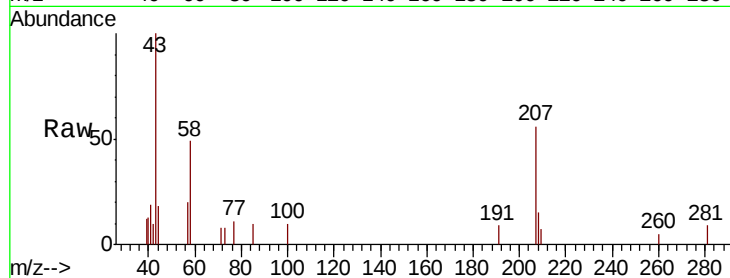




#59
2-Hexanone
Concen: 1.297 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

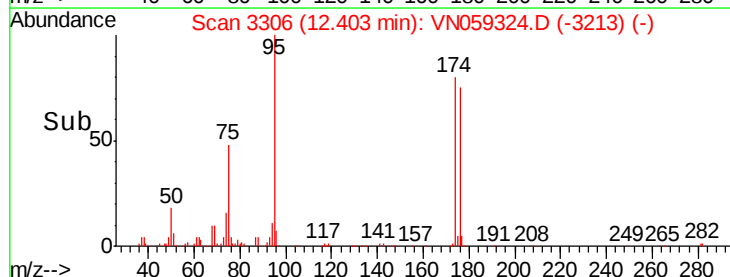
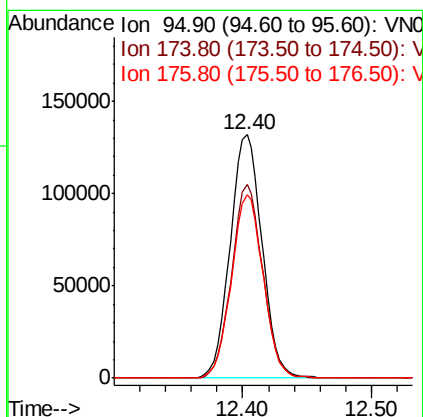
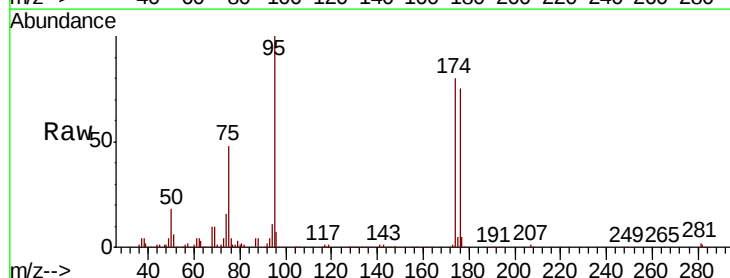
Instrument :
MSVOA_N
ClientSampled :

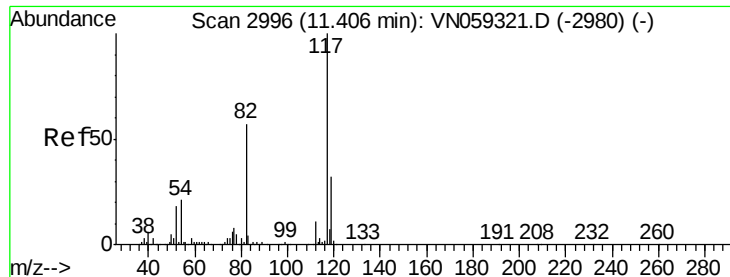
Tot Ion: 43 Resp: 6045
Ion Ratio Lower Upper
43 100
58 48.9 27.7 83.0



#62
4-Bromofluorobenzene
Concen: 42.357 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion: 95 Resp: 226599
Ion Ratio Lower Upper
95 100
174 77.8 0.0 157.4
176 74.9 0.0 151.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

ClientSampled :

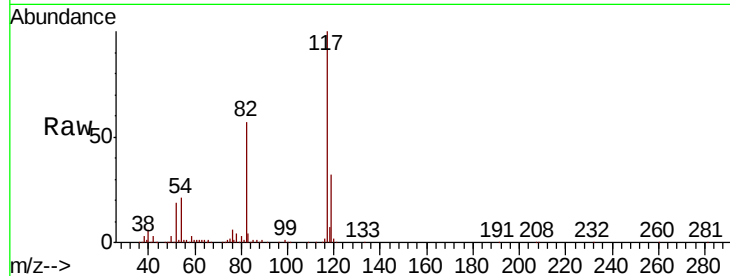
Tot Ion:117 Resp: 551624

Ion Ratio Lower Upper

117 100

82 57.4 45.7 68.5

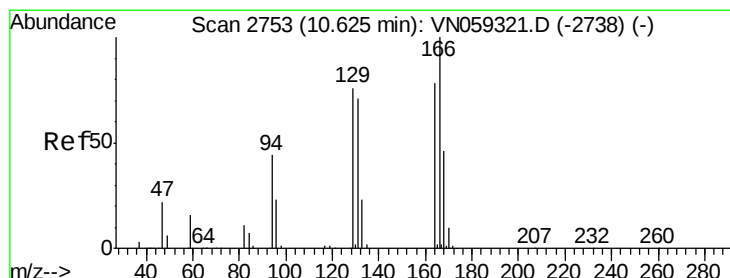
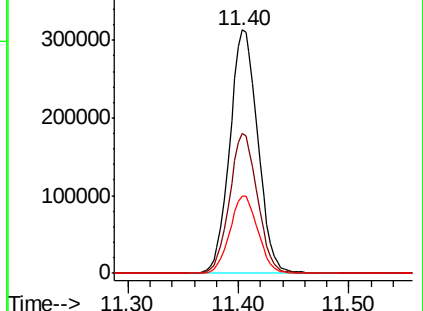
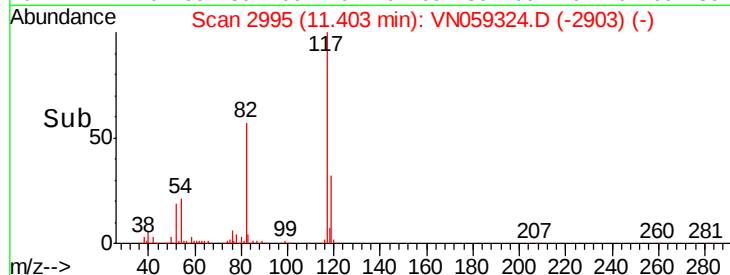
119 31.7 25.8 38.6



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



#64

Tetrachloroethene

Concen: 0.308 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Tgt Ion:164 Resp: 1316

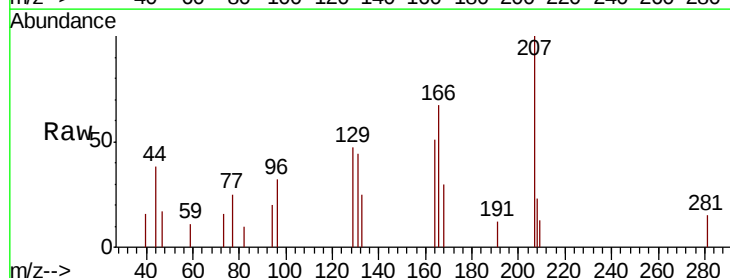
Ion Ratio Lower Upper

164 100

166 131.2 102.9 154.3

129 90.9 78.2 117.2

131 85.4 72.6 109.0

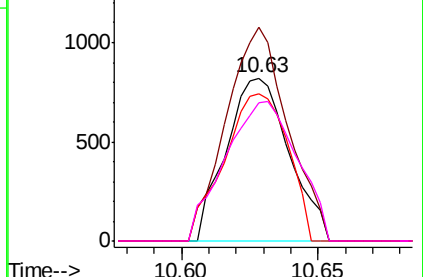
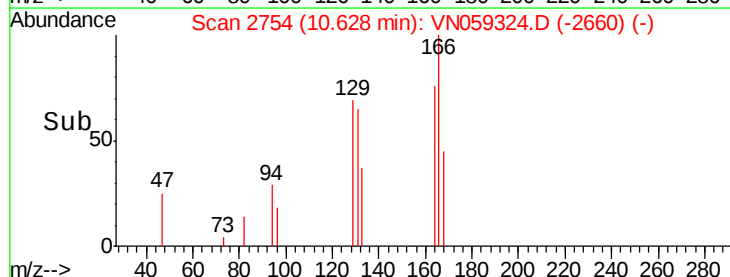


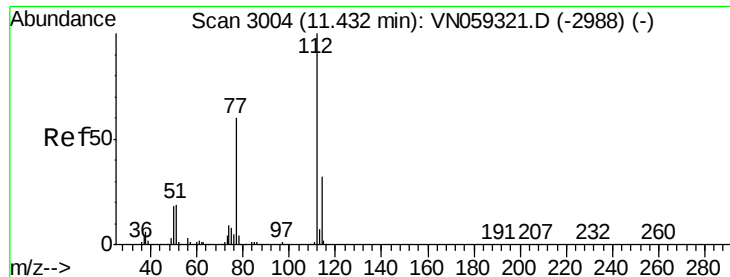
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 0.268 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

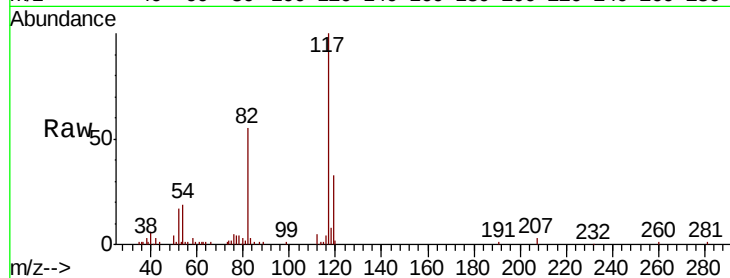
ClientSampleId :

Tot Ion:112 Resp: 3178

Ion Ratio Lower Upper

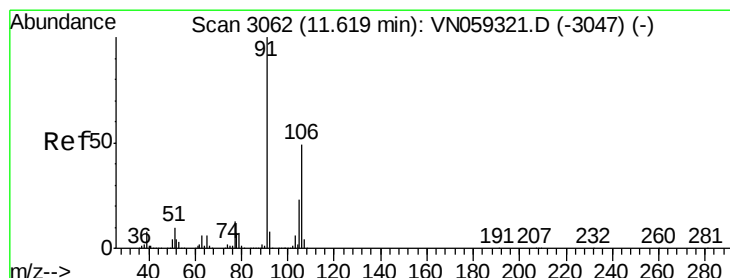
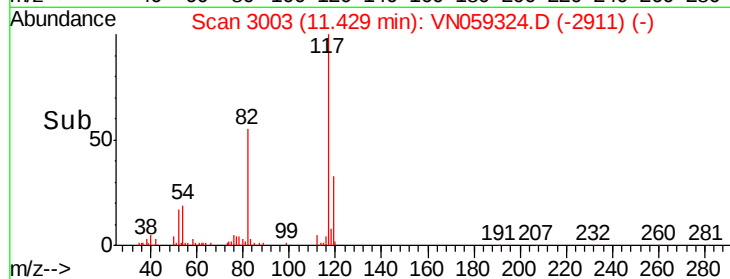
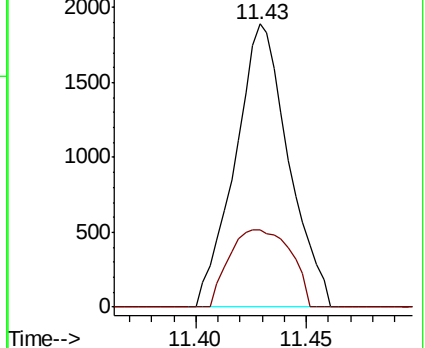
112 100

114 27.4 25.8 38.6



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#68

m/p-Xylenes

Concen: 0.408 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059324.D

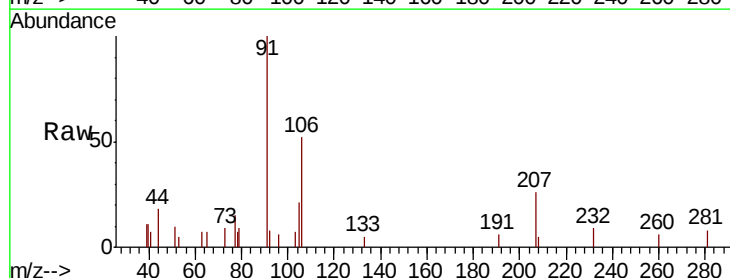
Acq: 20 Nov 2019 13:35

Tgt Ion:106 Resp: 3208

Ion Ratio Lower Upper

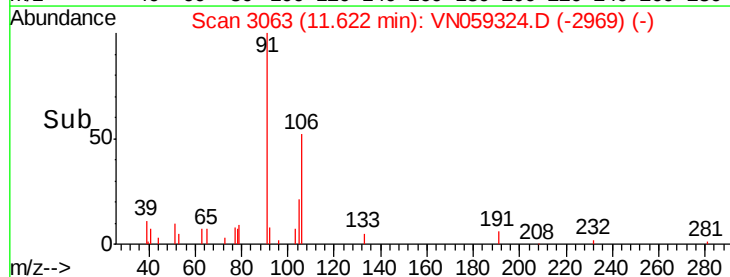
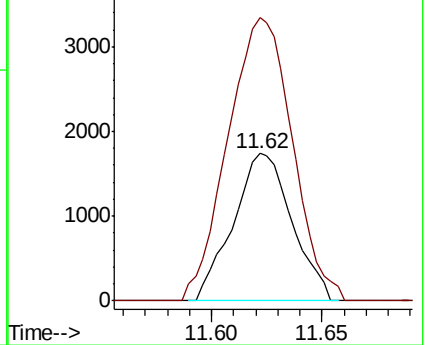
106 100

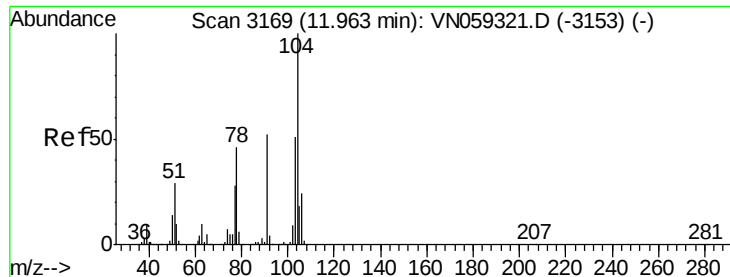
91 211.0 163.2 244.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

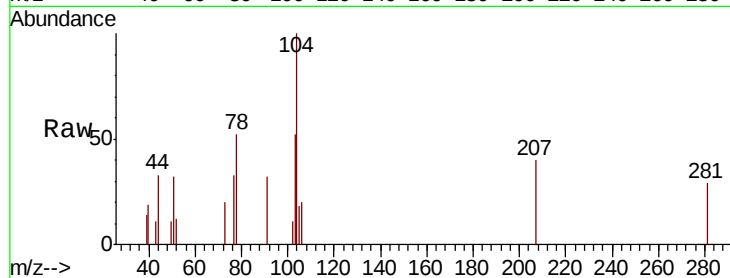




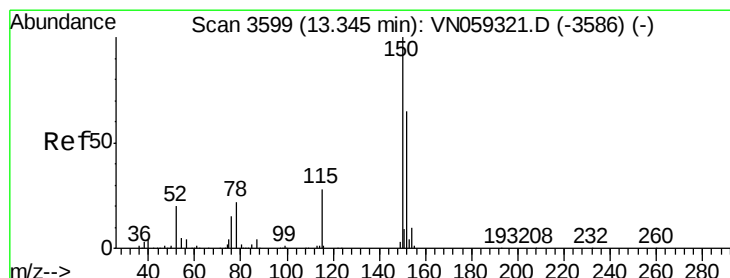
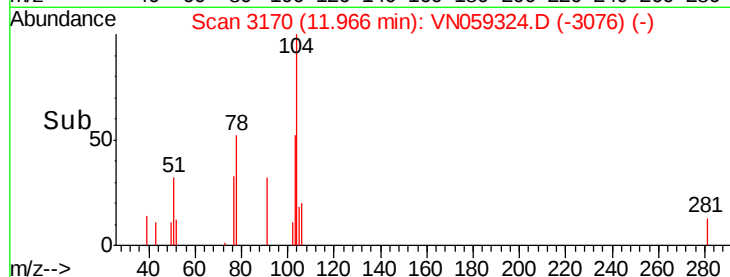
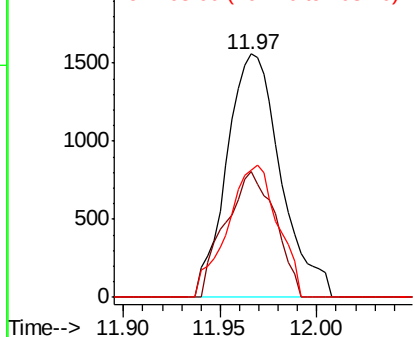
#70
Stvrene
Concen: 0.254 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:104 Resp: 3018
Ion Ratio Lower Upper
104 100
78 47.8 40.3 60.5
103 50.5 43.6 65.4

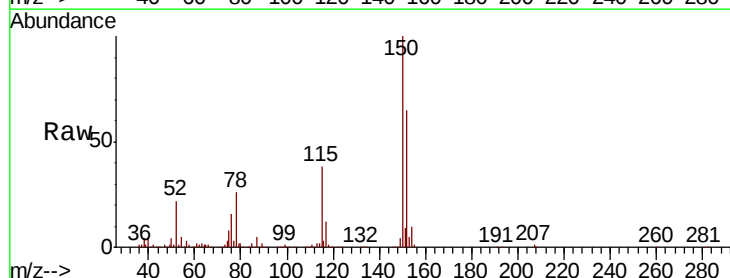


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

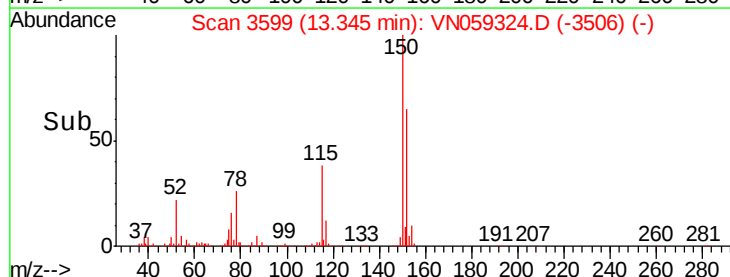
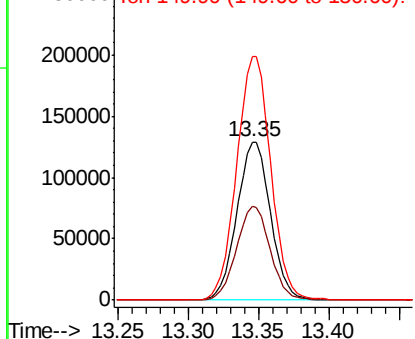


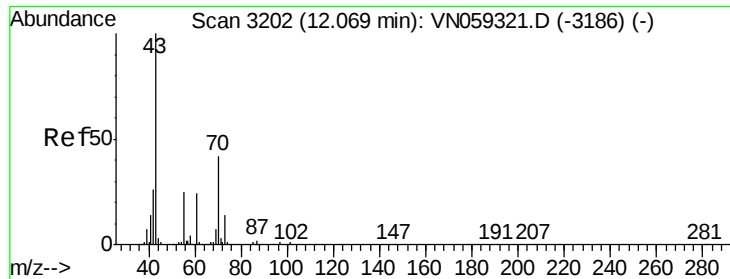
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion:152 Resp: 216063
Ion Ratio Lower Upper
152 100
115 58.4 29.3 88.0
150 155.9 0.0 346.0



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-amvl acetate

Concen: 0.510 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 3631

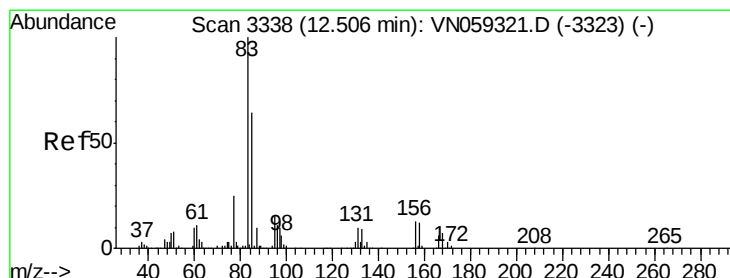
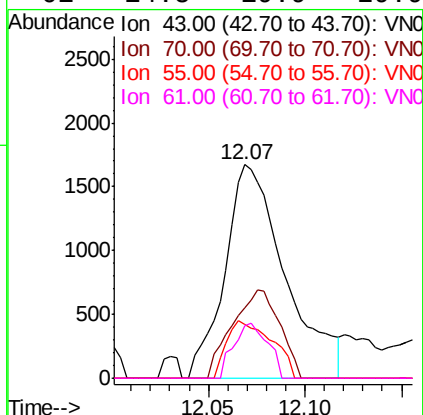
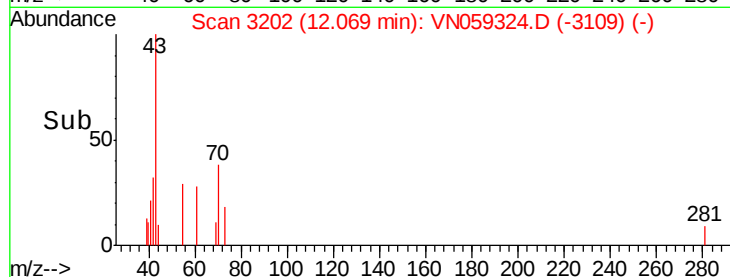
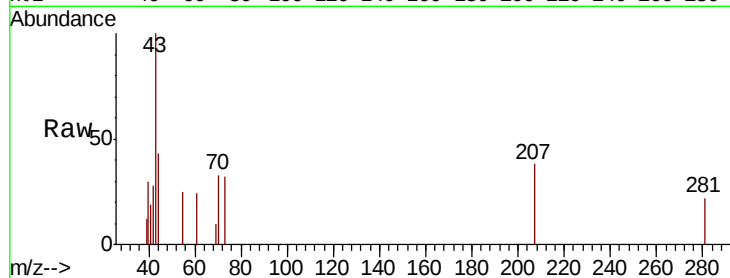
Ion Ratio Lower Upper

43 100

70 32.7 33.8 50.6#

55 20.2 20.3 30.5#

61 14.5 19.9 29.9#



#75

1,1,2,2-Tetrachloroethane

Concen: 0.277 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

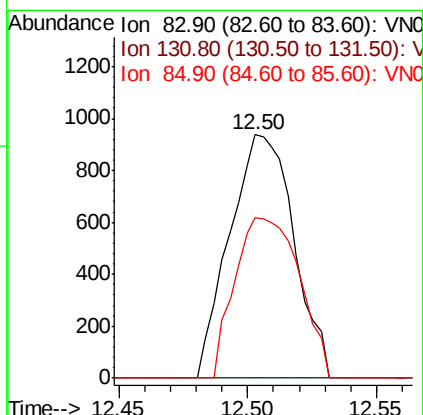
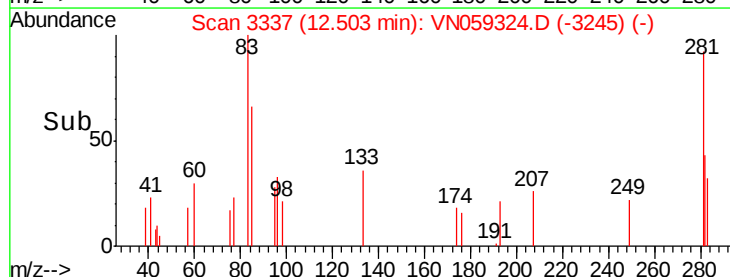
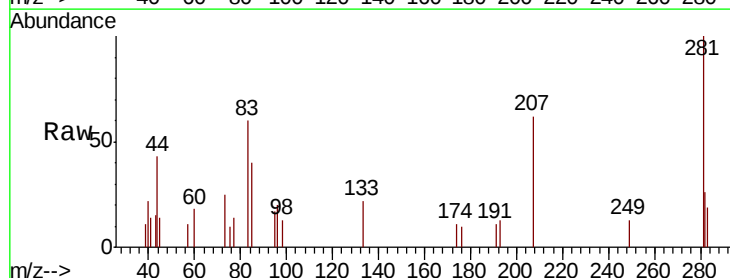
Tgt Ion: 83 Resp: 1624

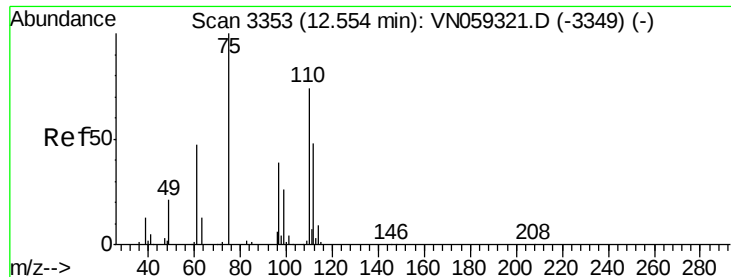
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 66.4 32.1 96.3





#76

1,2,3-Trichloropropane

Concen: 21.972 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

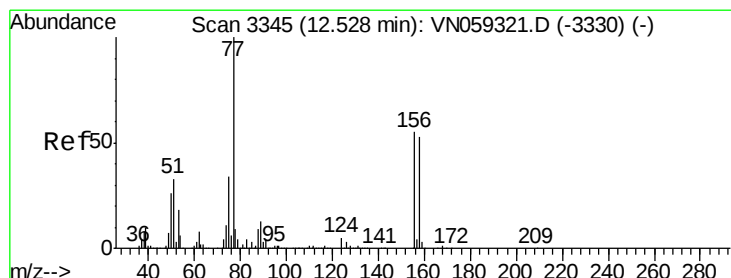
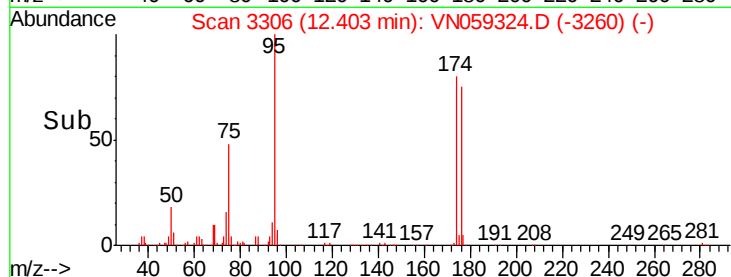
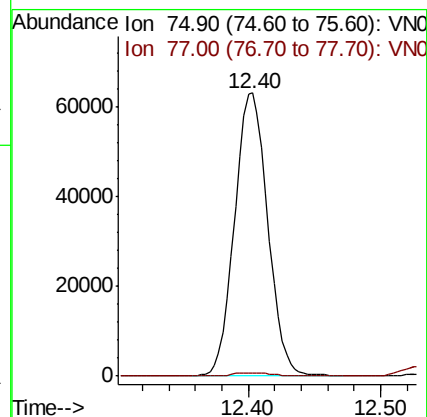
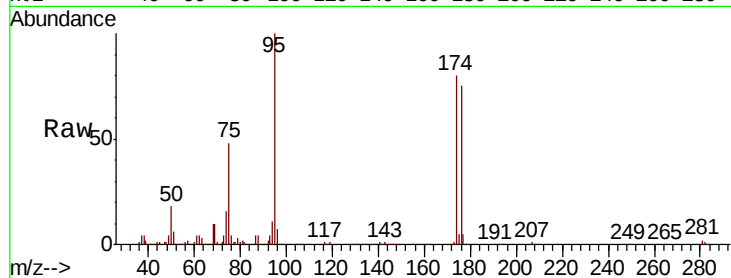
ClientSampleId :

Tot Ion: 75 Resp: 109673

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#77

Bromobenzene

Concen: 0.448 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

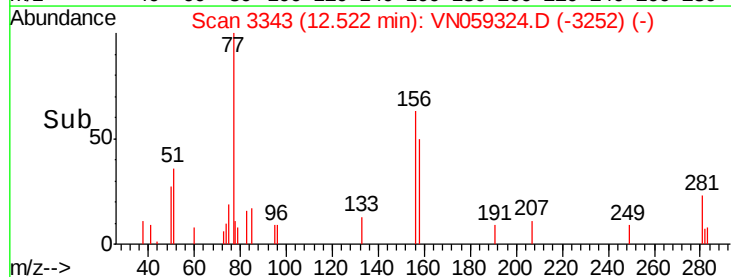
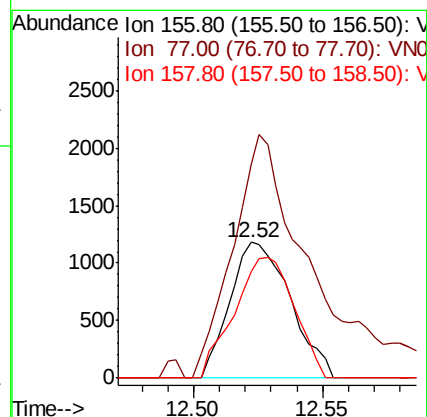
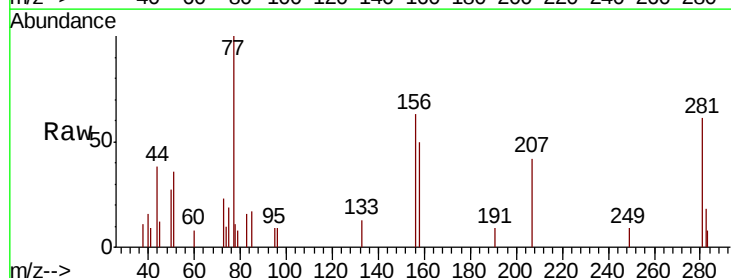
Tgt Ion: 156 Resp: 1923

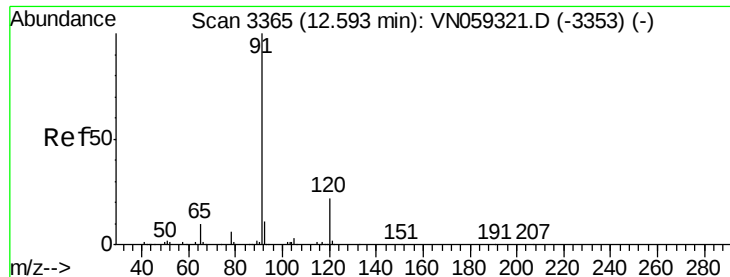
Ion Ratio Lower Upper

156 100

77 235.7 111.1 333.4

158 88.4 47.8 143.4





#78

n-propylbenzene

Concen: 0.323 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

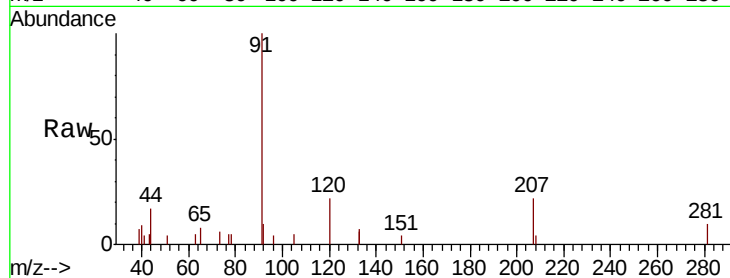
ClientSampled :

Tot Ion: 91 Resp: 6484

Ion Ratio Lower Upper

91 100

120 21.9 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

4000

3000

2000

1000

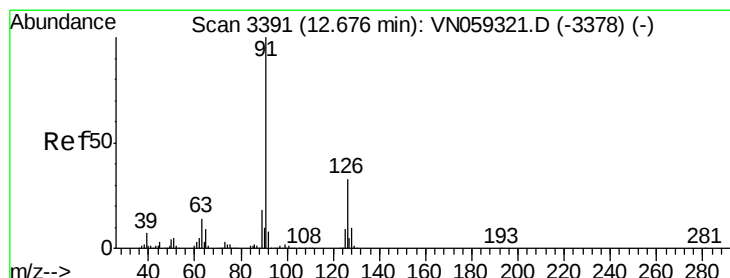
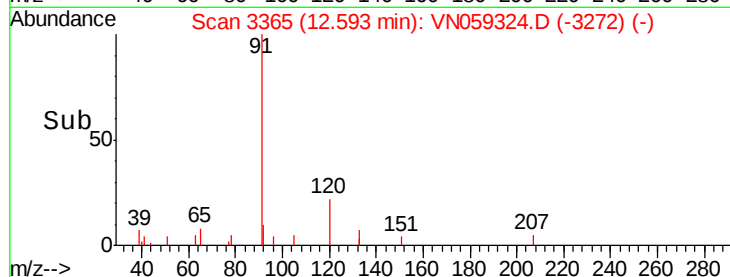
0

12.55

12.60

12.65

Time-->



#79

2-Chlorotoluene

Concen: 0.312 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. 0.00 min

Lab File: VN059324.D

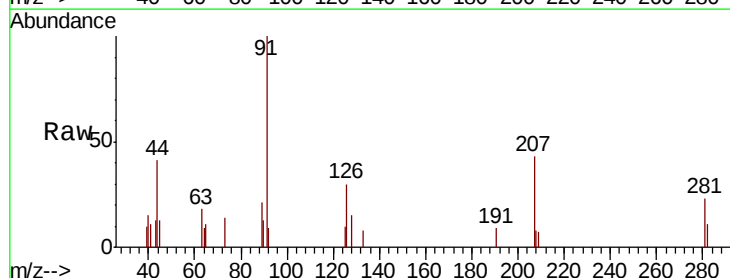
Acq: 20 Nov 2019 13:35

Tgt Ion: 91 Resp: 3844

Ion Ratio Lower Upper

91 100

126 33.2 16.7 50.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.68

2500

2000

1500

1000

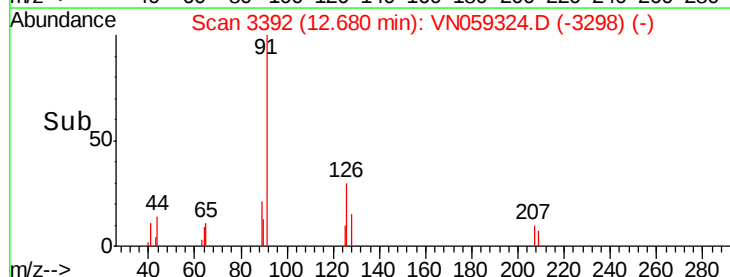
500

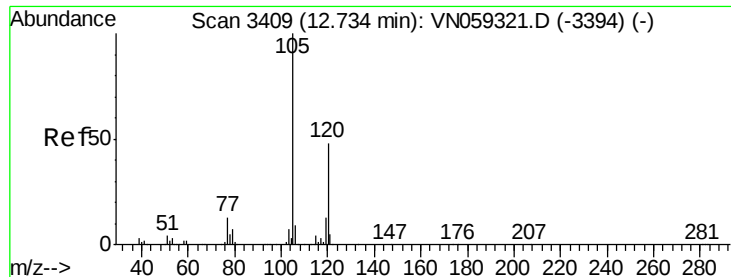
0

12.65

12.70

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.234 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

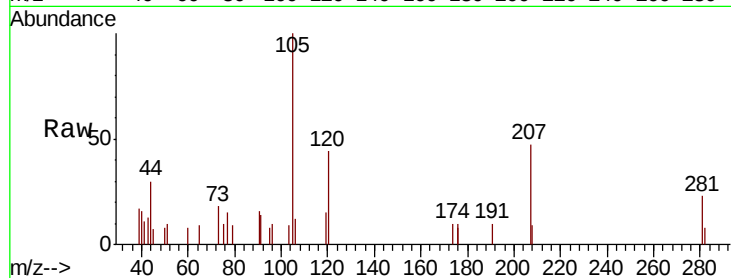
ClientSampleId :

Tot Ion:105 Resp: 3486

Ion Ratio Lower Upper

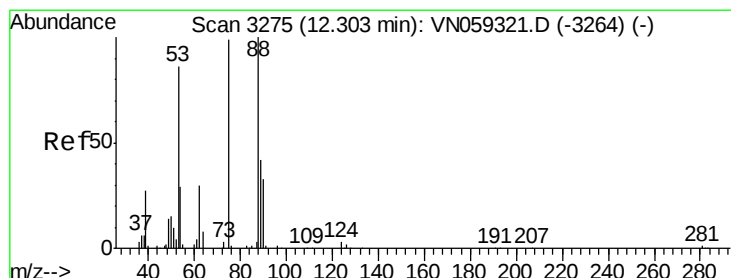
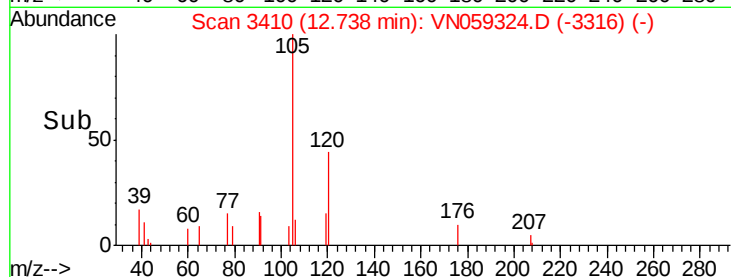
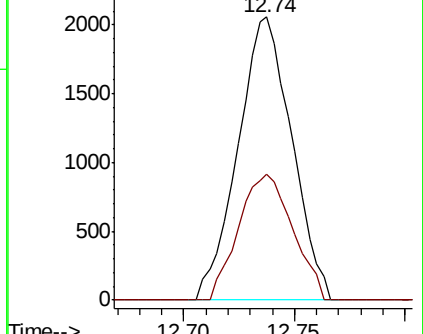
105 100

120 44.8 24.1 72.4



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: 54.954 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

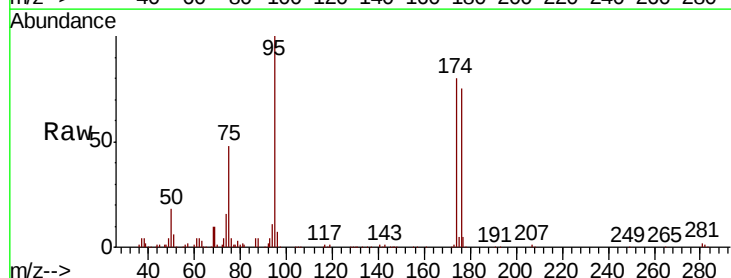
Tgt Ion: 75 Resp: 109673

Ion Ratio Lower Upper

75 100

53 0.0 70.7 106.1#

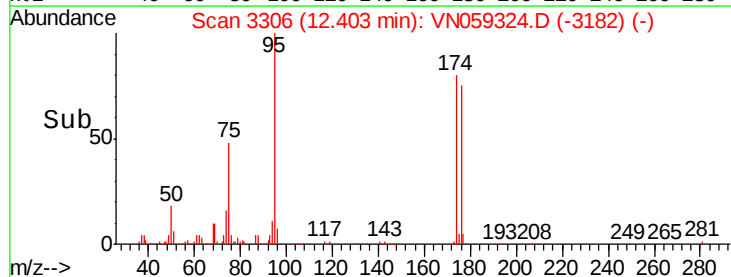
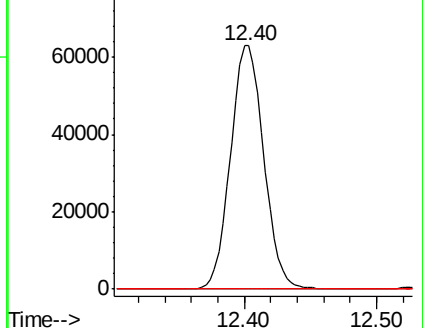
89 0.0 35.4 53.0#

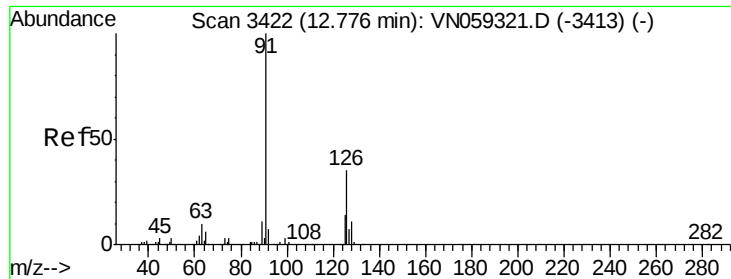


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

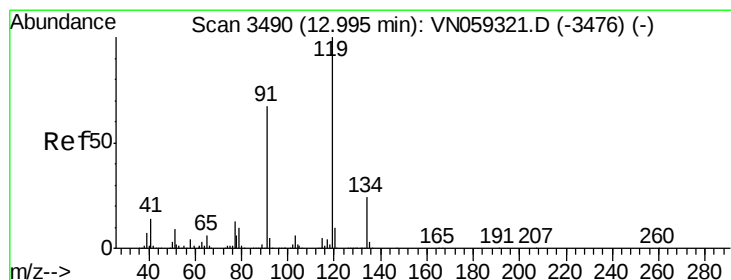
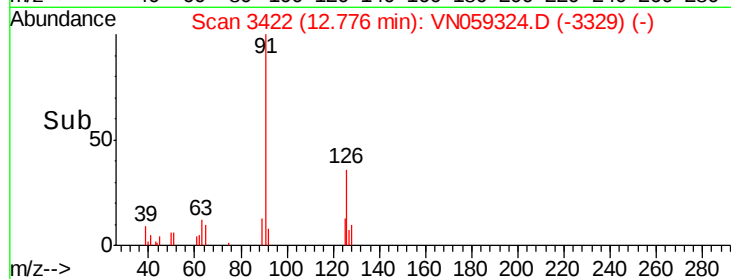
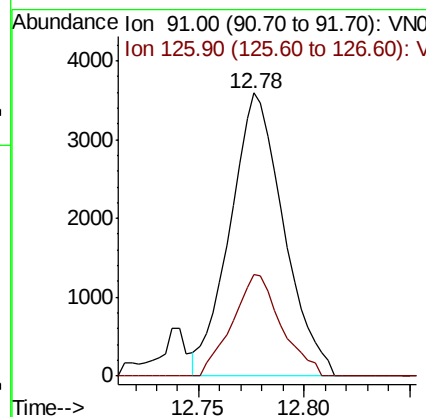
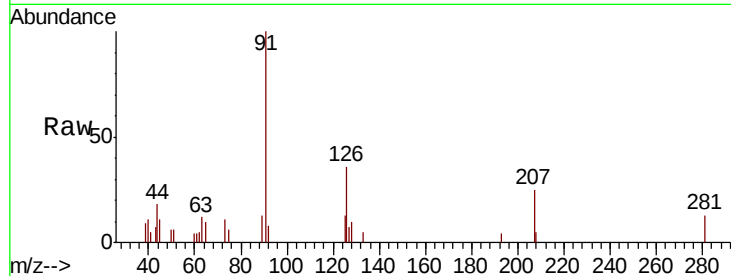




#82
4-Chlorotoluene
Concen: 0.496 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

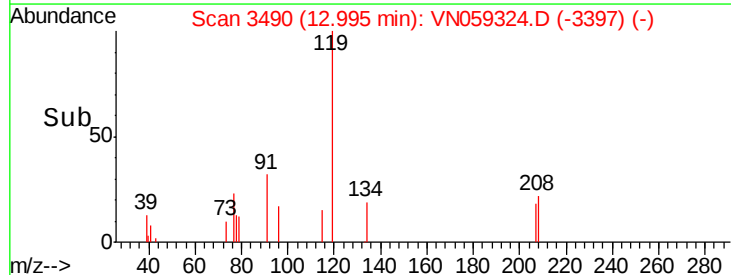
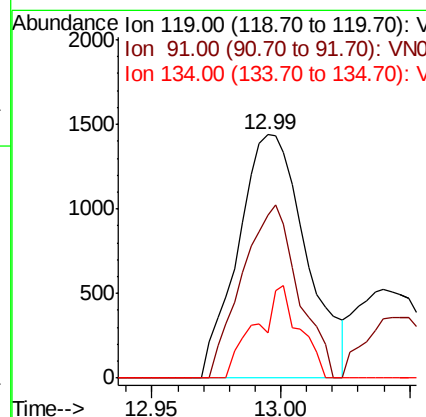
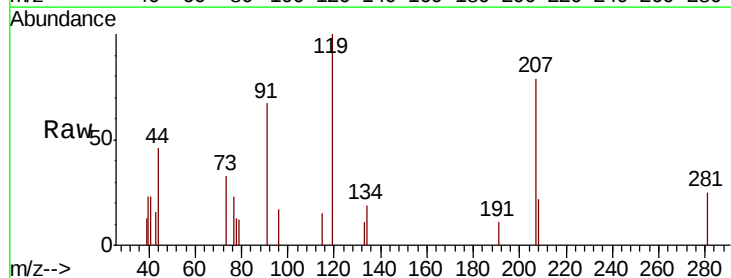
Instrument :
MSVOA_N
ClientSampled :

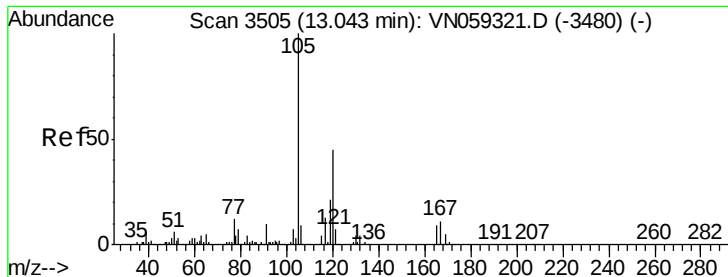
Tot Ion: 91 Resp: 6317
Ion Ratio Lower Upper
91 100
126 32.8 16.2 48.6



#83
tert-Butylbenzene
Concen: 0.211 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion: 119 Resp: 2650
Ion Ratio Lower Upper
119 100
91 58.8 32.8 98.4
134 24.4 13.0 38.9

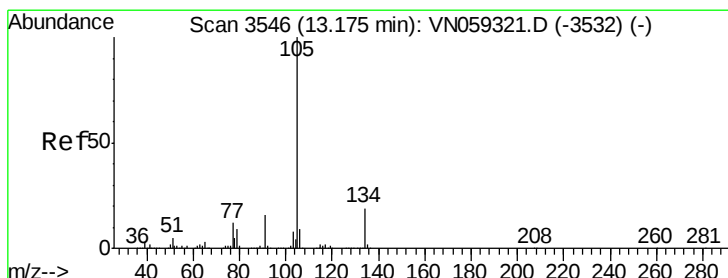
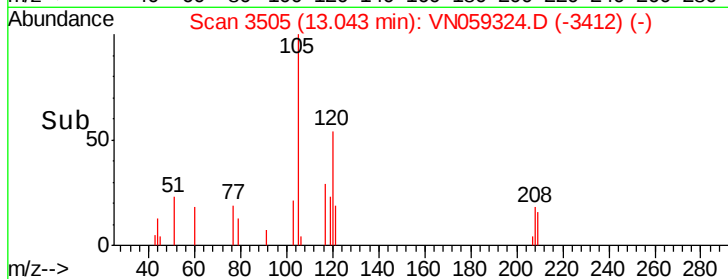
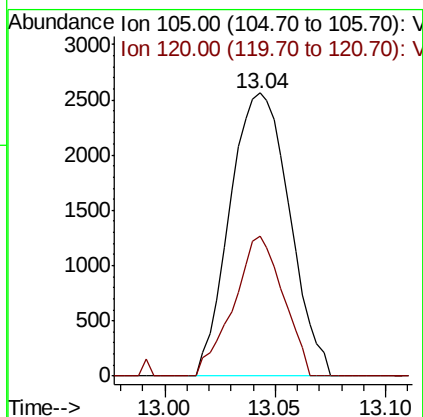
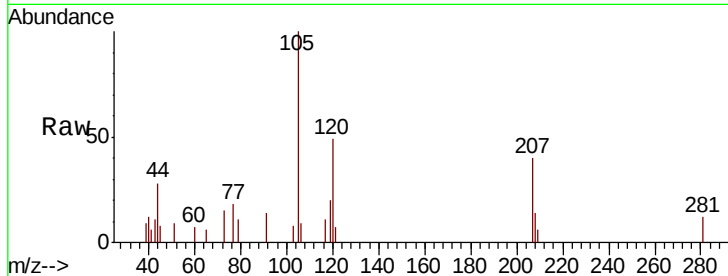




#84
 1,2,4-Trimethylbenzene
 Concen: 0.329 ug/l
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

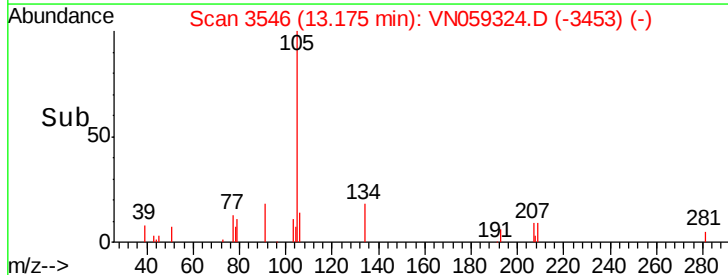
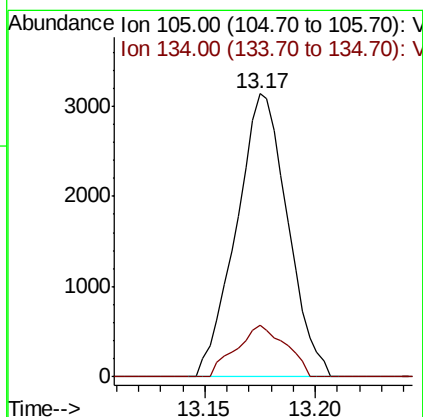
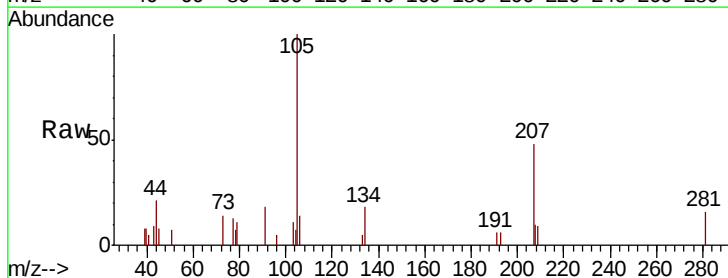
Instrument :
 MSVOA_N
 ClientSampled :

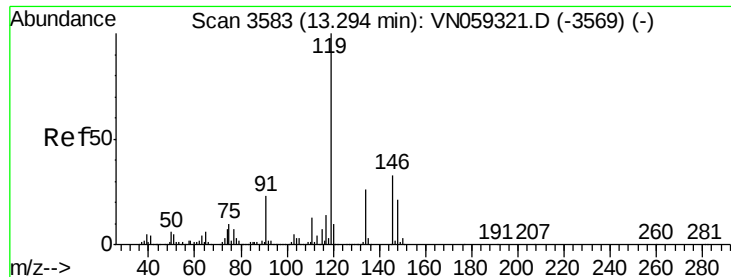
Tot Ion:105 Resp: 4789
 Ion Ratio Lower Upper
 105 100
 120 41.1 22.6 67.8



#85
 sec-Butylbenzene
 Concen: 0.299 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Tgt Ion:105 Resp: 5058
 Ion Ratio Lower Upper
 105 100
 134 17.5 9.8 29.3

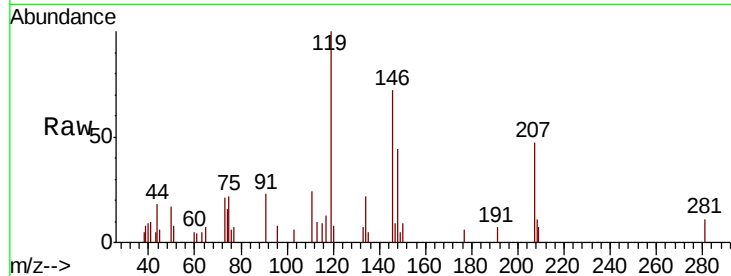




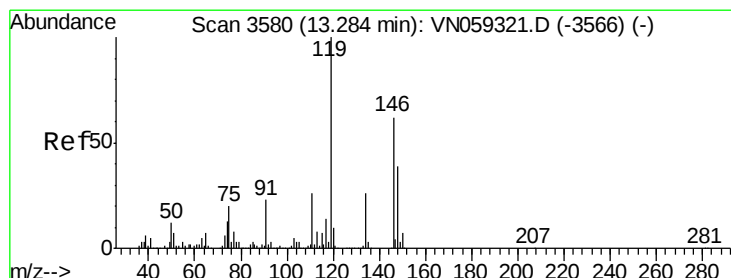
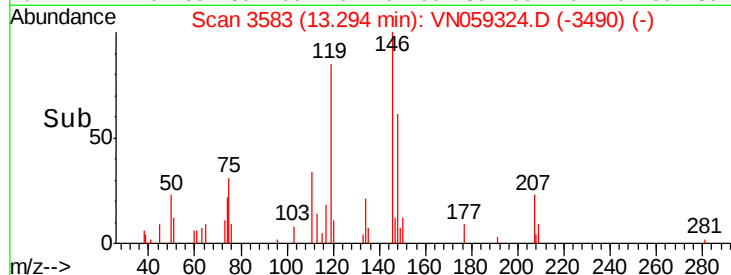
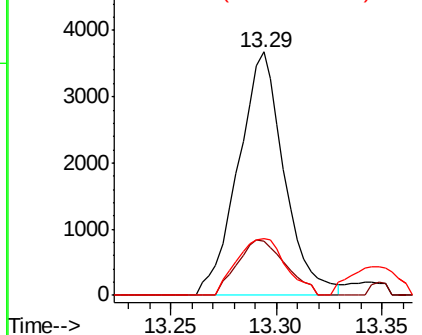
#86
 p-Isopropyltoluene
 Concen: 0.370 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
134	23.8	13.0	38.9
91	24.9	11.6	34.7

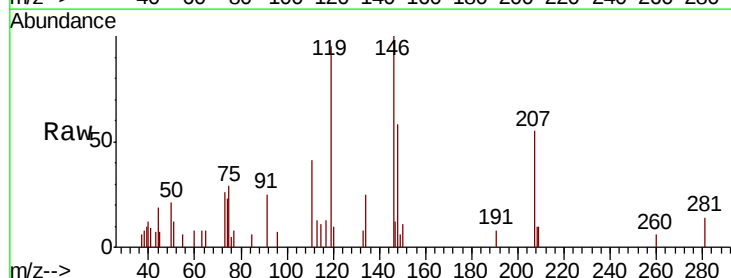


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

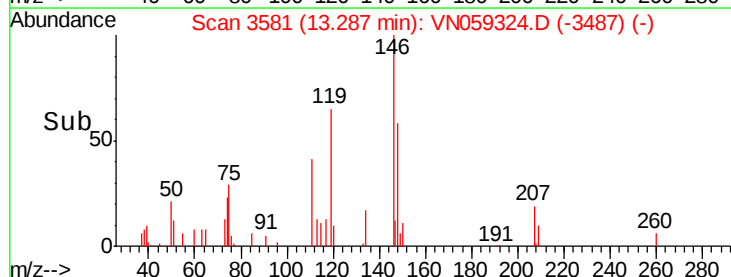
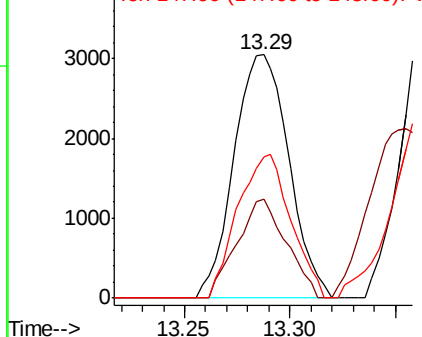


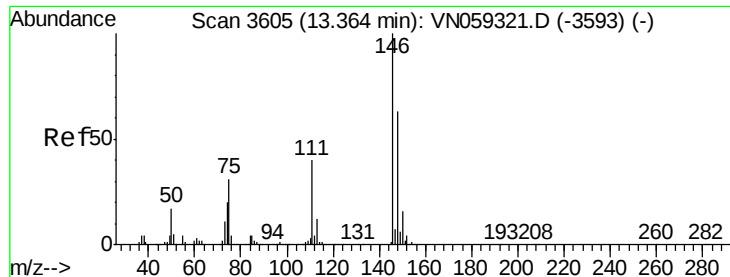
#87
 1,3-Dichlorobenzene
 Concen: 0.720 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	20.6	61.8
148	57.1	31.9	95.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

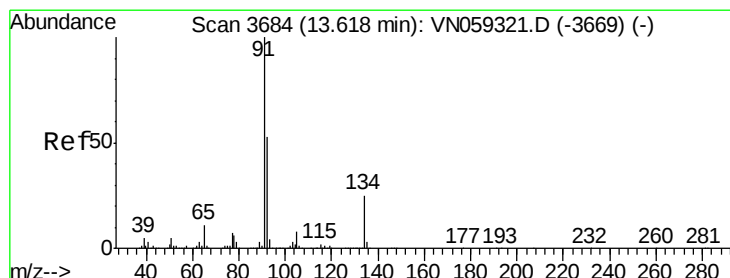
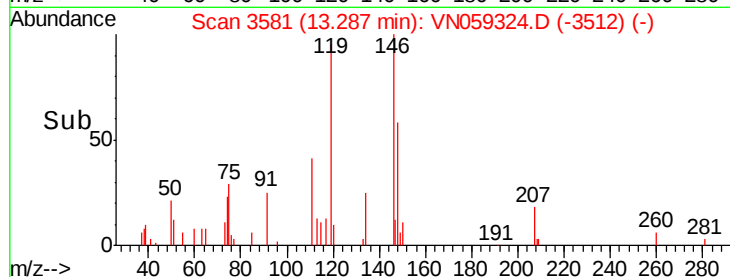
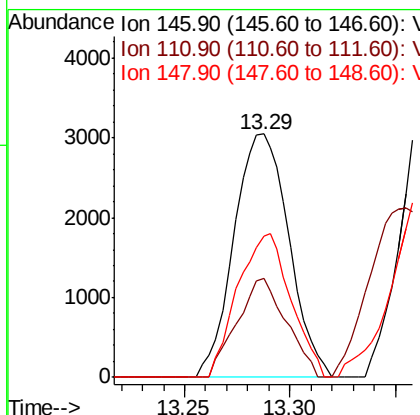
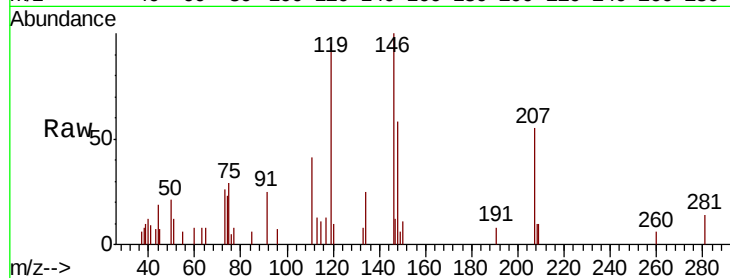




#88
 1,4-Dichlorobenzene
 Concen: 0.728 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.08 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

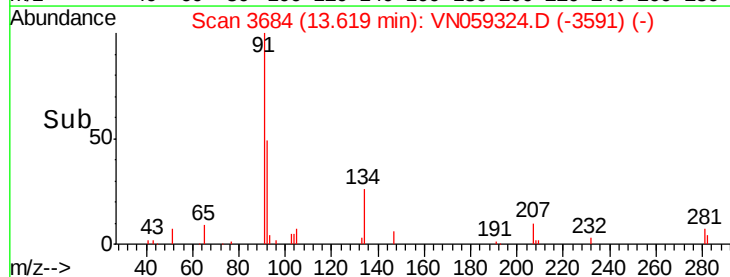
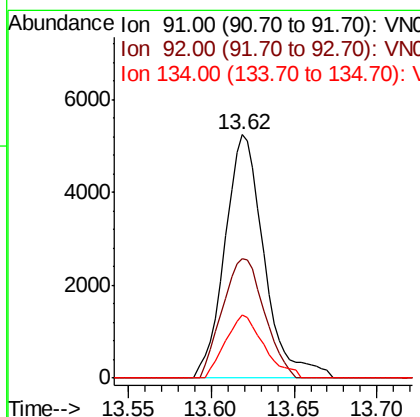
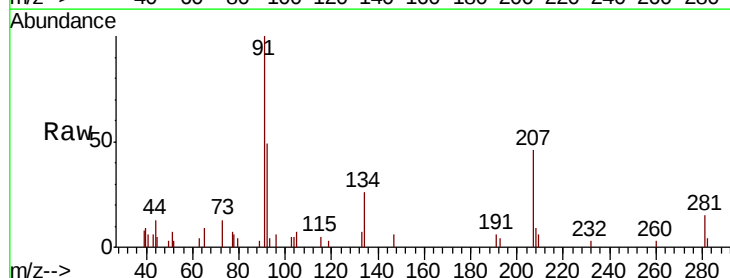
Instrument :
 MSVOA_N
 ClientSampleId :

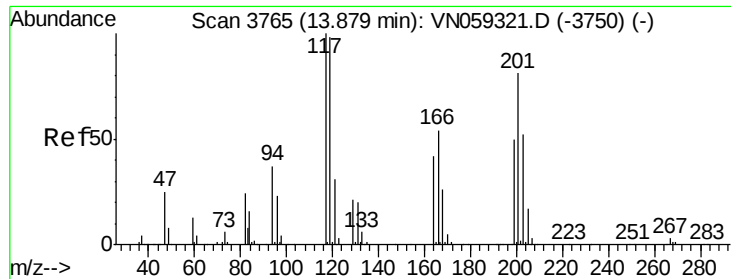
Tot Ion	Ratio	Lower	Upper
146	100		
111	36.5	20.1	60.3
148	57.1	31.7	95.1



#89
 n-Butylbenzene
 Concen: 0.655 ug/l
 RT: 13.62 min Scan# 3684
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.0	78.0
134	25.4	12.7	38.1

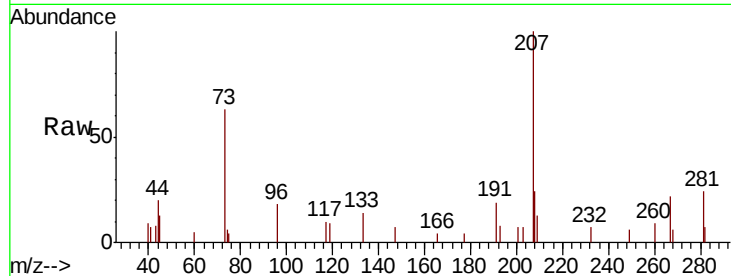




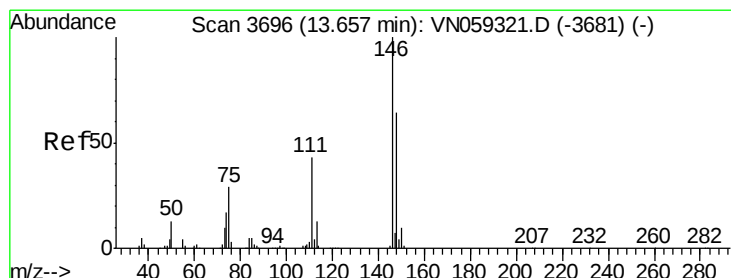
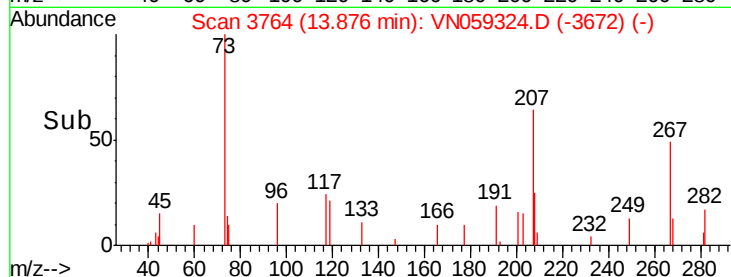
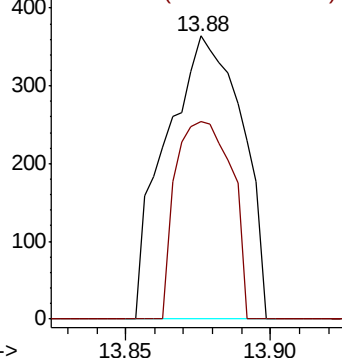
#90
Hexachloroethane
Concen: 0.234 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 665
Ion Ratio Lower Upper
117 100
201 51.1 40.4 121.2

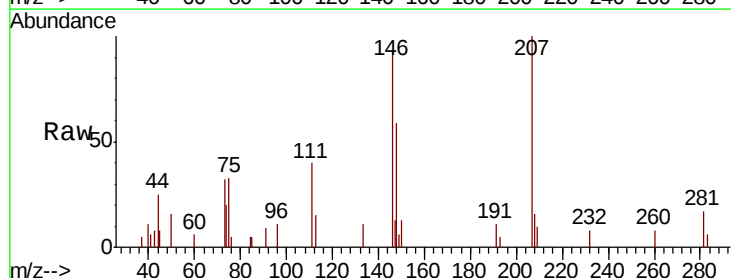


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

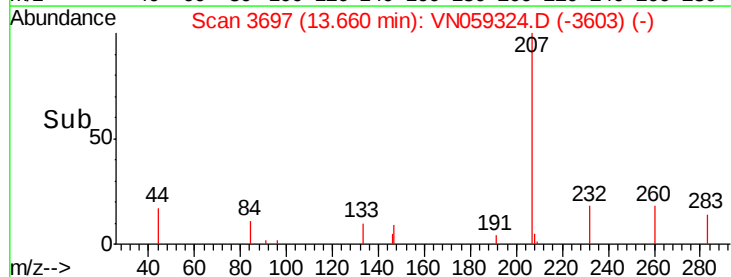
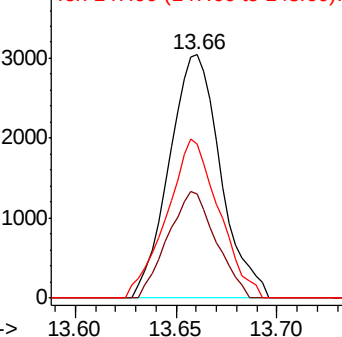


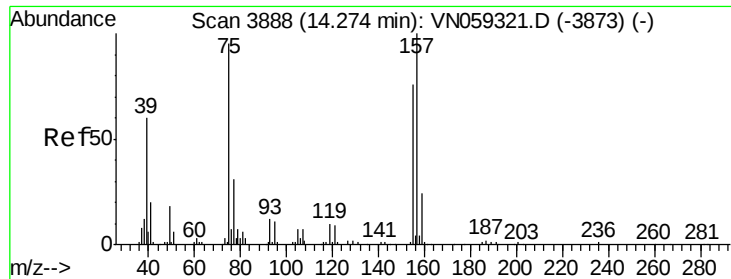
#91
1,2-Dichlorobenzene
Concen: 0.735 ug/l
RT: 13.66 min Scan# 3697
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion:146 Resp: 5434
Ion Ratio Lower Upper
146 100
111 40.9 21.3 64.0
148 66.3 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.530 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

Instrument :

MSVOA_N

ClientSampled :

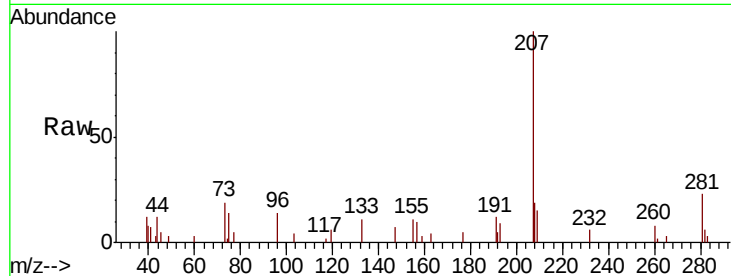
Tot Ion: 75 Resp: 1904

Ion Ratio Lower Upper

75 100

155 61.8 40.5 121.5

157 59.9 52.7 158.1

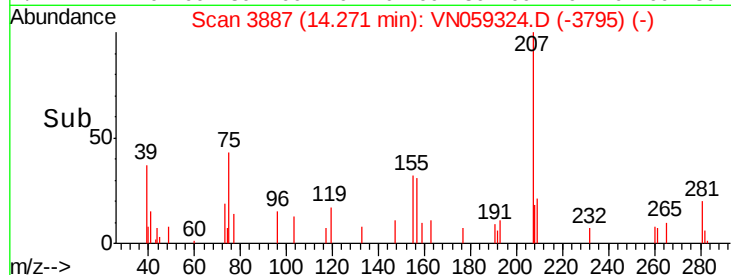


Abundance Ion 74.90 (74.60 to 75.60): VN059321.D (-3873) (-)

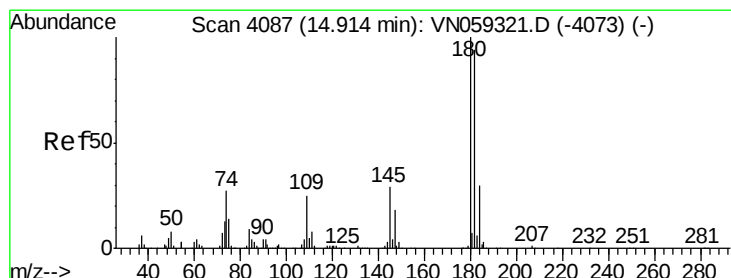
Ion 154.80 (154.50 to 155.50): VN059321.D (-3873) (-)

Ion 156.80 (156.50 to 157.50): VN059321.D (-3873) (-)

Time-->



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 5.305 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059324.D

Acq: 20 Nov 2019 13:35

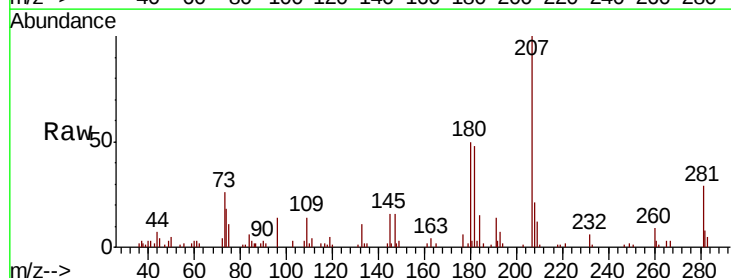
Tgt Ion: 180 Resp: 11568

Ion Ratio Lower Upper

180 100

182 94.8 47.2 141.6

145 32.0 14.9 44.5

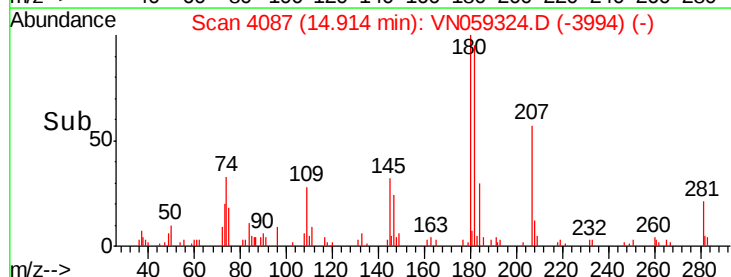


Abundance Ion 179.80 (179.50 to 180.50): VN059321.D (-4073) (-)

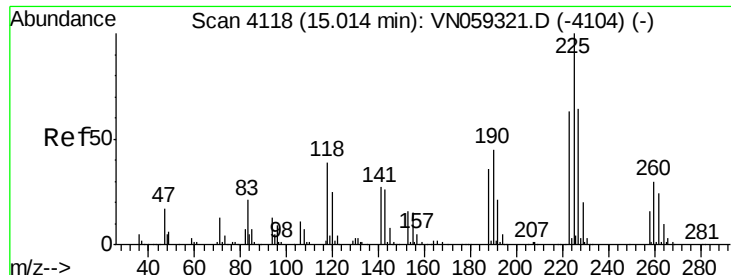
Ion 181.80 (181.50 to 182.50): VN059321.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN059321.D (-4073) (-)

Time-->



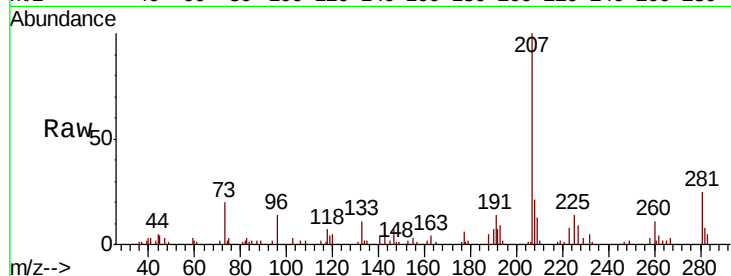
Time-->



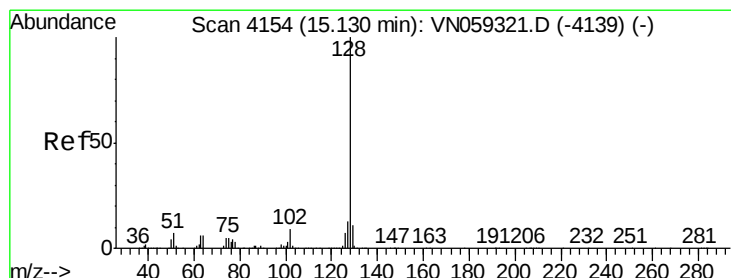
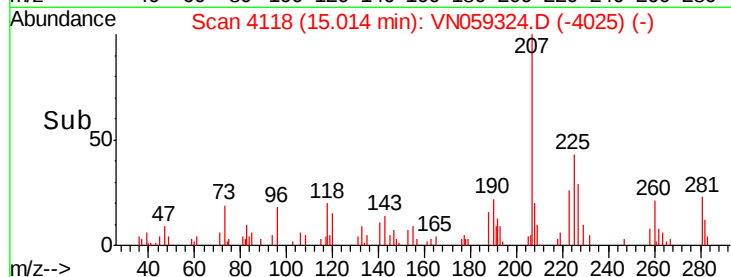
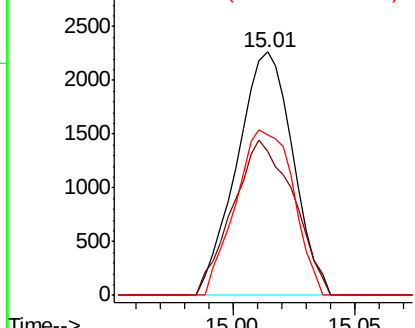
#94
Hexachlorobutadiene
Concen: 1.355 ug/l
RT: 15.01 min Scan# 4118
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:225 Resp: 3610
Ion Ratio Lower Upper
225 100
223 69.3 31.6 94.8
227 69.8 32.6 97.7

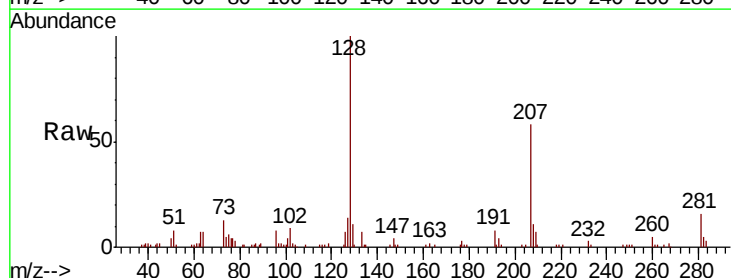


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

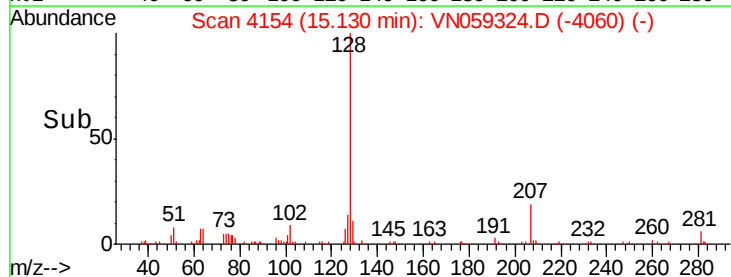
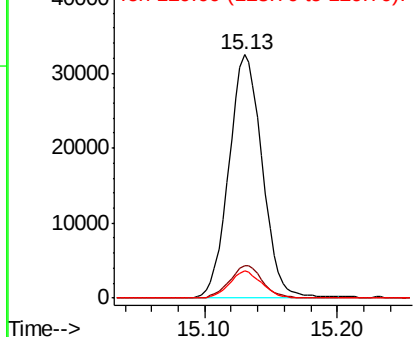


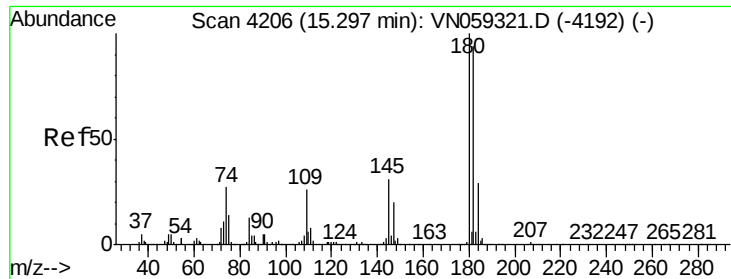
#95
Naphthalene
Concen: 7.346 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059324.D
Acq: 20 Nov 2019 13:35

Tgt Ion:128 Resp: 56825
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 10.7 8.6 13.0



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

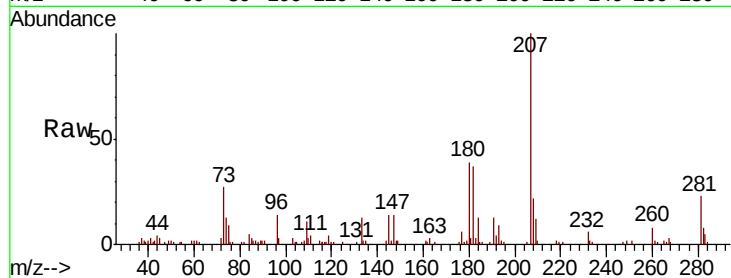




#96
 1,2,3-Trichlorobenzene
 Concen: 5.231 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN059324.D
 Acq: 20 Nov 2019 13:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.4
145	38.4	15.6	46.8



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

