

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020819\
 Data File : VN053692.D
 Acq On : 8 Feb 2019 19:59
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 09 02:40:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	761011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1183234	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1026072	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	484835	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	396012	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
35) Dibromofluoromethane	7.59	113	388020	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	
50) Toluene-d8	10.09	98	1431151	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
62) 4-Bromofluorobenzene	12.40	95	486892	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	387381	45.185	ug/l	100
3) Chloromethane	2.06	50	434431	48.085	ug/l	99
4) Vinyl Chloride	2.19	62	430078	49.038	ug/l	99
5) Bromomethane	2.57	94	295581	51.544	ug/l	97
6) Chloroethane	2.71	64	274448	54.760	ug/l	100
7) Trichlorofluoromethane	3.02	101	581325	48.878	ug/l	100
8) Diethyl Ether	3.41	74	220894	50.856	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	354262	48.163	ug/l	99
10) Methyl Iodide	3.96	142	561020	48.595	ug/l	99
11) Tert butyl alcohol	4.77	59	121195	268.236	ug/l	99
12) 1,1-Dichloroethene	3.74	96	346425	49.158	ug/l	98
13) Acrolein	3.61	56	86995	353.641	ug/l	98
14) Allyl chloride	4.33	41	558542	49.778	ug/l	98
15) Acrylonitrile	4.99	53	654489	268.325	ug/l	99
16) Acetone	3.81	43	445814	227.660	ug/l	98
17) Carbon Disulfide	4.06	76	951930	43.381	ug/l	100
18) Methyl Acetate	4.32	43	320292	55.229	ug/l	98
19) Methyl tert-butyl Ether	5.04	73	949922	53.173	ug/l	99
20) Methylene Chloride	4.55	84	395715	48.166	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	368172	48.425	ug/l	98
22) Diisopropyl ether	5.95	45	1097535	52.789	ug/l	99
23) Vinyl Acetate	5.90	43	3752300	260.889	ug/l	98
24) 1,1-Dichloroethane	5.85	63	689781	49.742	ug/l	100
25) 2-Butanone	6.83	43	699329	250.396	ug/l	98
26) 2,2-Dichloropropane	6.83	77	492389	46.514	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	429716	50.829	ug/l	97
28) Bromochloromethane	7.20	49	294726	48.975	ug/l	97
29) Tetrahydrofuran	7.21	42	475729	265.267	ug/l	98
30) Chloroform	7.37	83	681046	49.543	ug/l	99
31) Cyclohexane	7.66	56	610028	47.239	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	568636	49.706	ug/l	99
36) 1,1-Dichloropropene	7.79	75	518710	48.632	ug/l	99
37) Ethyl Acetate	6.93	43	313756	52.670	ug/l	99
38) Carbon Tetrachloride	7.77	117	503074	46.820	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	598953	47.332	ug/l	98
40) Benzene	8.04	78	1583712	48.150	ug/l	100
41) Methacrylonitrile	7.17	41	169201	50.820	ug/l	93
42) 1,2-Dichloroethane	8.12	62	461865	47.292	ug/l	99
43) Isopropyl Acetate	8.16	43	574842	49.967	ug/l	99
44) Trichloroethene	8.84	130	441838	47.184	ug/l	99
45) 1,2-Dichloropropane	9.12	63	420169	49.944	ug/l	100
46) Dibromomethane	9.21	93	246440	48.594	ug/l	98
47) Bromodichloromethane	9.40	83	512787	48.631	ug/l	98
48) Methyl methacrylate	9.20	41	266504	48.530	ug/l	92
49) 1,4-Dioxane	9.20	88	77789	978.467	ug/l	93
51) 4-Methyl-2-Pentanone	9.99	43	1498568	265.080	ug/l	99
52) Toluene	10.16	92	957466	49.048	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	524160	49.643	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	621669	49.687	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	356029	50.614	ug/l	98
56) Ethyl methacrylate	10.43	69	439766	52.847	ug/l	99
57) 1,3-Dichloropropane	10.71	76	599841	49.896	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1004769	196.465	ug/l	99
59) 2-Hexanone	10.75	43	947238	246.815	ug/l	98
60) Dibromochloromethane	10.90	129	395764	49.893	ug/l	100
61) 1,2-Dibromoethane	11.01	107	338345	48.597	ug/l	99
64) Tetrachloroethene	10.63	164	406128	46.174	ug/l	99
65) Chlorobenzene	11.43	112	1048530	48.109	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	384103	50.463	ug/l	99
67) Ethyl Benzene	11.51	91	1769789	49.432	ug/l	100
68) m/p-Xylenes	11.62	106	1366273	99.988	ug/l	99
69) o-Xylene	11.95	106	668406	50.633	ug/l	99
70) Styrene	11.96	104	1089174	50.904	ug/l	100
71) Bromoform	12.13	173	271032	51.938	ug/l #	99
73) Isopropylbenzene	12.25	105	1737383	50.975	ug/l	100
74) N-amyl acetate	12.07	43	441197	53.831	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	411049	50.392	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	503287	80.818	ug/l #	100
77) Bromobenzene	12.53	156	456519	49.699	ug/l	99
78) n-propylbenzene	12.59	91	1997153	50.688	ug/l	100
79) 2-Chlorotoluene	12.68	91	1180208	50.489	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1477305	52.269	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	112022	50.582	ug/l	98
82) 4-Chlorotoluene	12.77	91	1205489	50.257	ug/l	100
83) tert-Butylbenzene	12.99	119	1303731	52.192	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1505688	52.290	ug/l	99
85) sec-Butylbenzene	13.17	105	1760632	51.794	ug/l	99
86) p-Isopropyltoluene	13.29	119	1533860	51.594	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	806699	48.853	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	796390	48.756	ug/l	99
89) n-Butylbenzene	13.62	91	1307542	50.812	ug/l	100
90) Hexachloroethane	13.88	117	257190	52.447	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	786554	49.756	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57458	49.426	ug/l	94

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QLast Update : Fri Feb 01 09:11:52 2019
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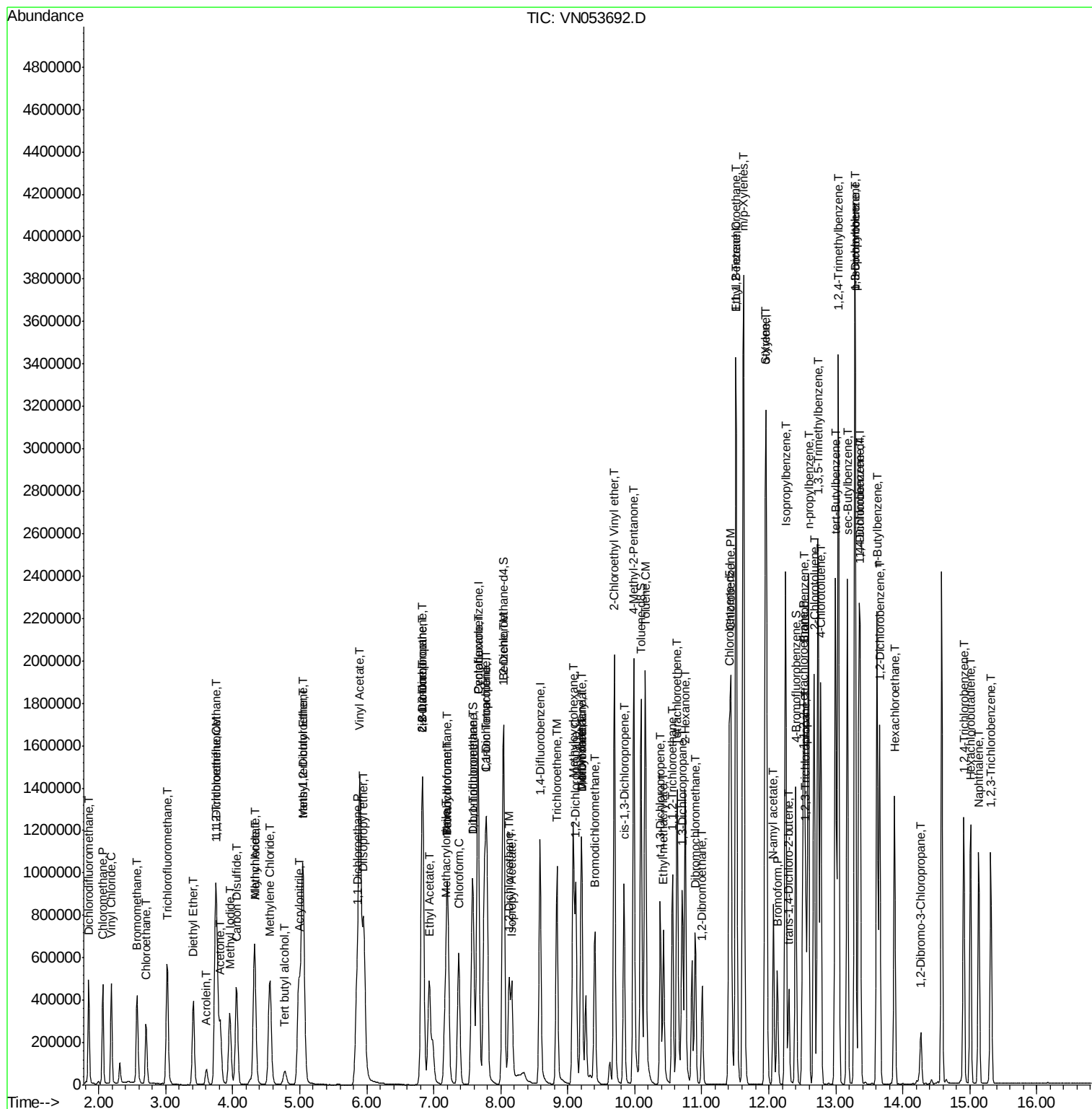
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	442979	48.858	ug/l	100
94) Hexachlorobutadiene	15.01	225	267383	47.355	ug/l	99
95) Naphthalene	15.13	128	955850	45.058	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	417083	49.578	ug/l	100

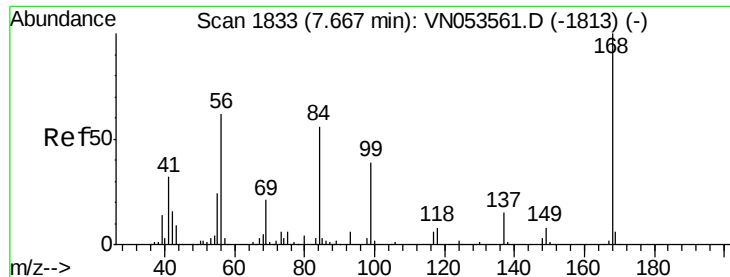
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

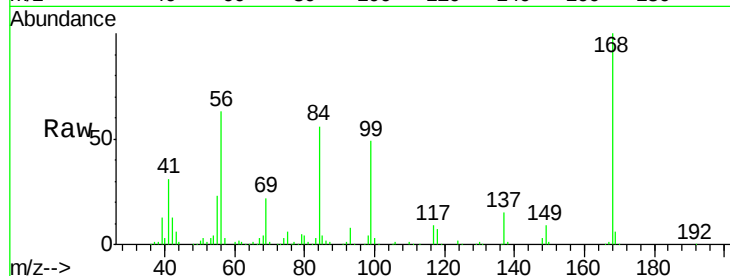
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 761011

Ion Ratio Lower Upper

168 100

99 48.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

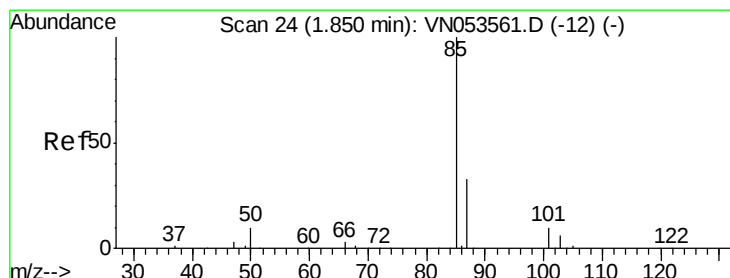
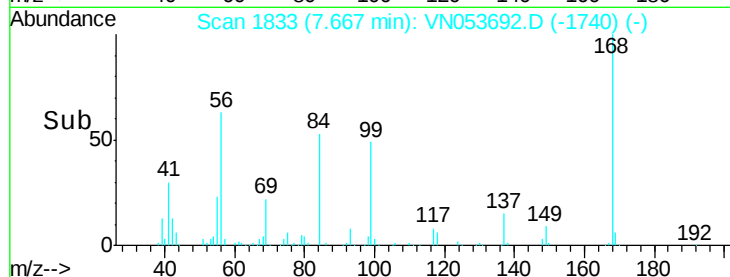
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 45.185 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053692.D

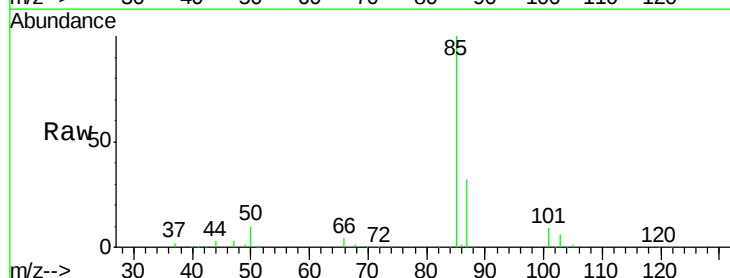
Acq: 8 Feb 2019 19:59

Tgt Ion: 85 Resp: 387381

Ion Ratio Lower Upper

85 100

87 32.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

300000

250000

200000

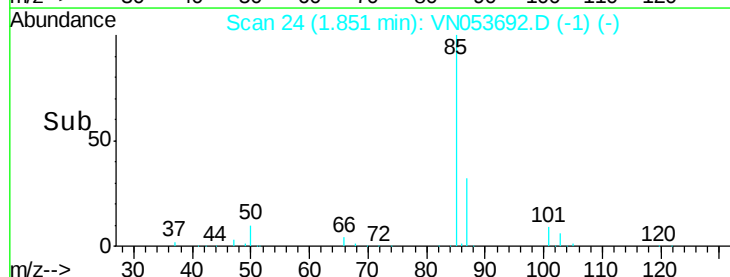
150000

100000

50000

0

Time-->





#3

Chloromethane

Concen: 48.085 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

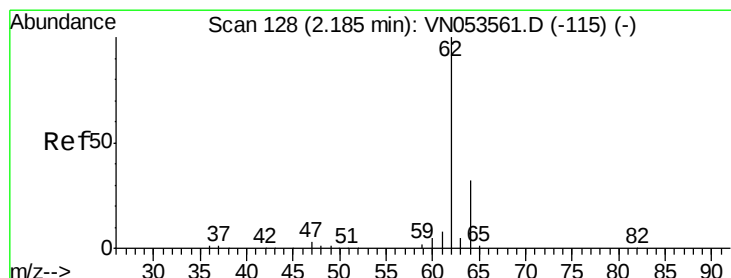
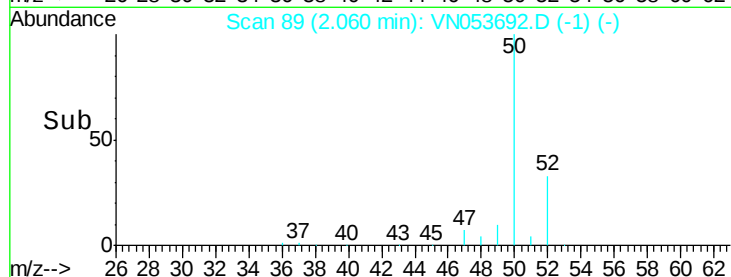
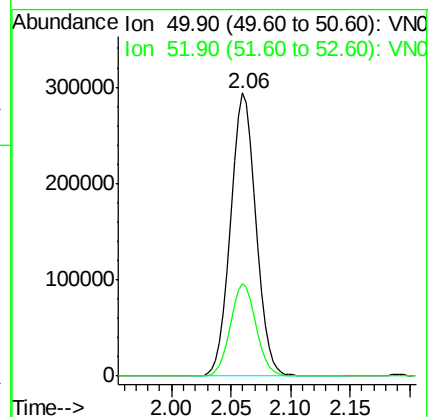
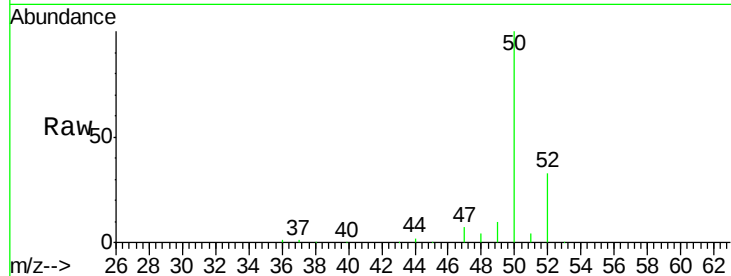
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 50 Resp: 434431

Ion Ratio Lower Upper

50 100

52 32.7 26.6 40.0



#4

Vinyl Chloride

Concen: 49.038 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN053692.D

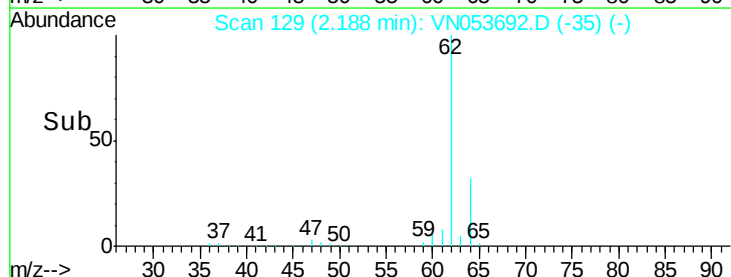
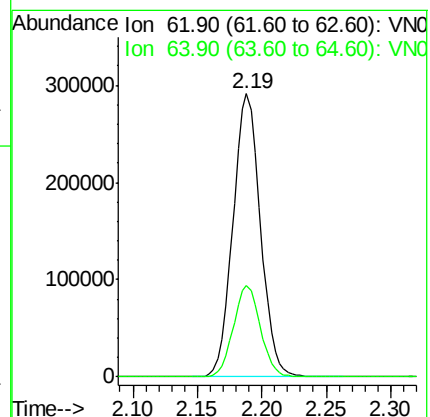
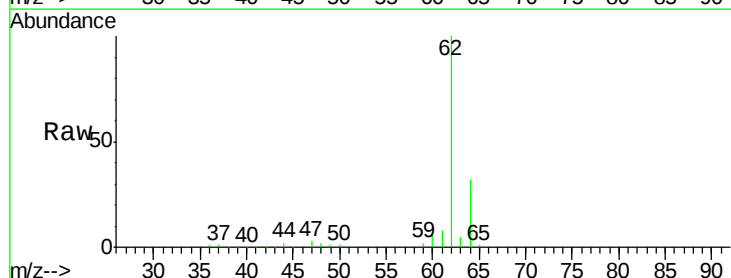
Acq: 8 Feb 2019 19:59

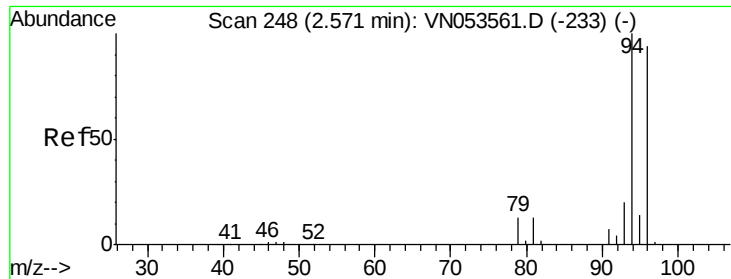
Tgt Ion: 62 Resp: 430078

Ion Ratio Lower Upper

62 100

64 32.4 25.4 38.2





#5

Bromomethane

Concen: 51.544 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

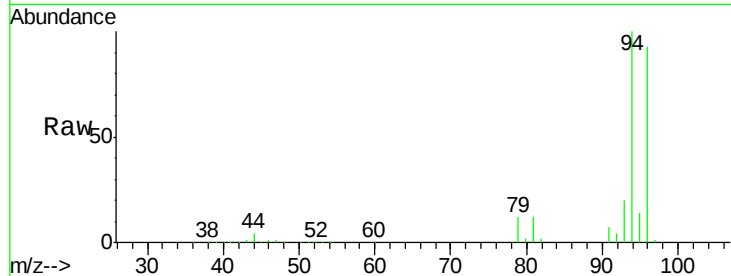
ClientSampleId :

Tot Ion: 94 Resp: 295581

Ion Ratio Lower Upper

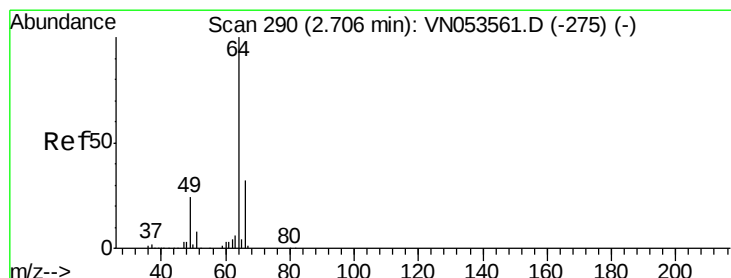
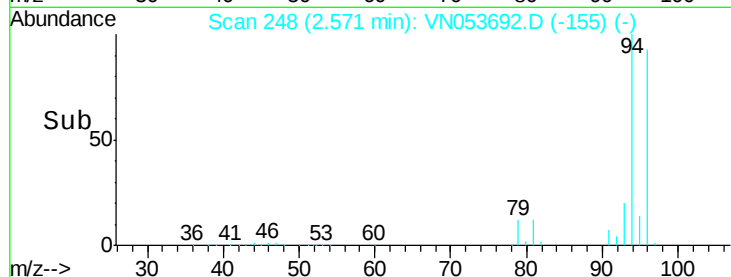
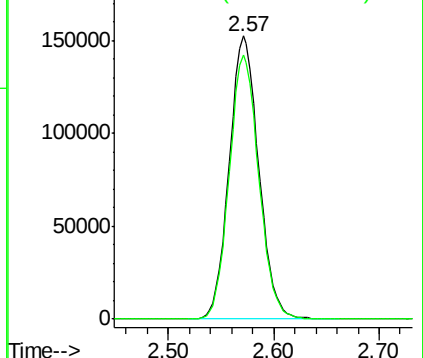
94 100

96 93.1 76.8 115.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 54.760 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN053692.D

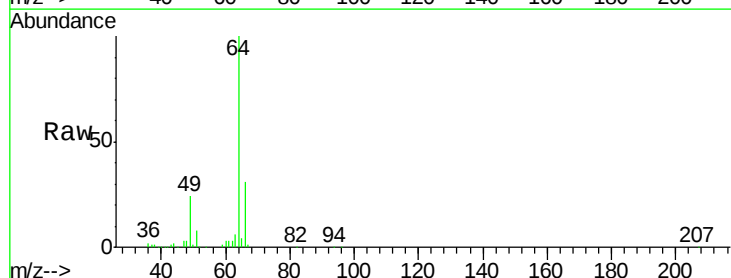
Acq: 8 Feb 2019 19:59

Tgt Ion: 64 Resp: 274448

Ion Ratio Lower Upper

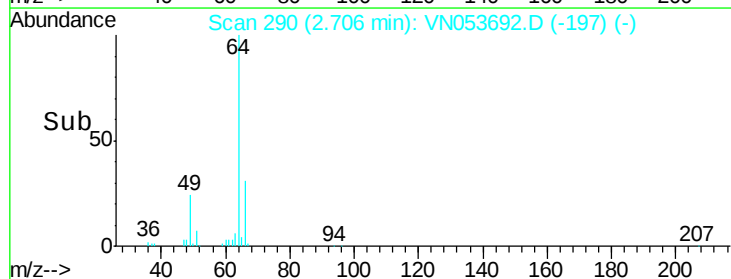
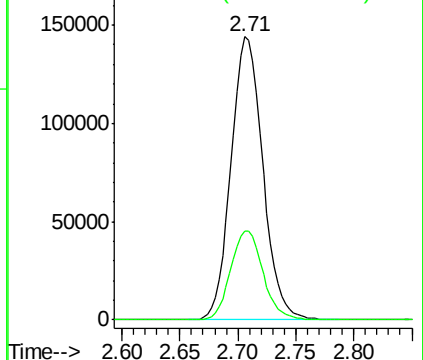
64 100

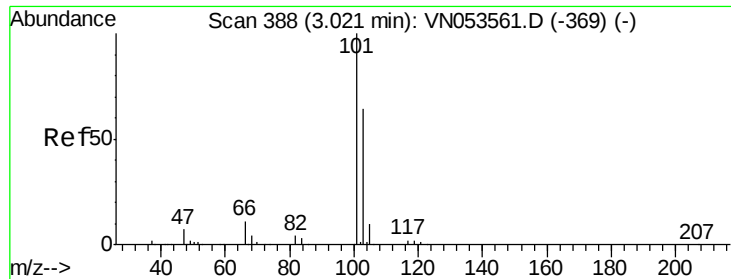
66 31.3 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



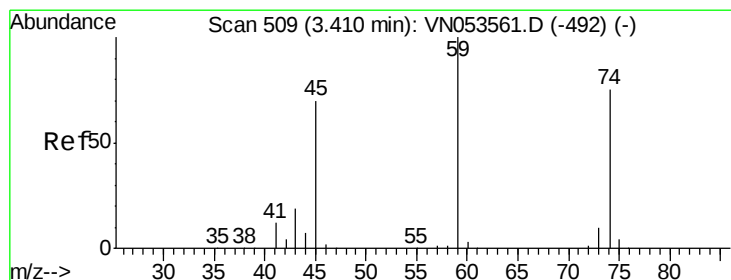
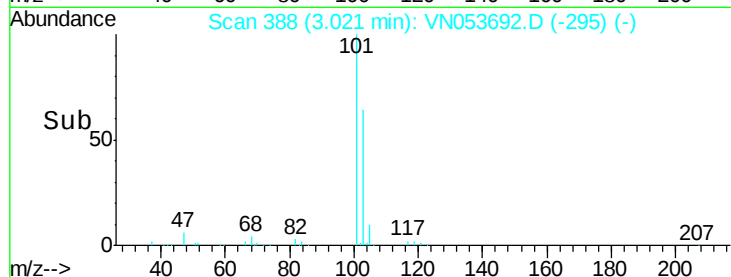
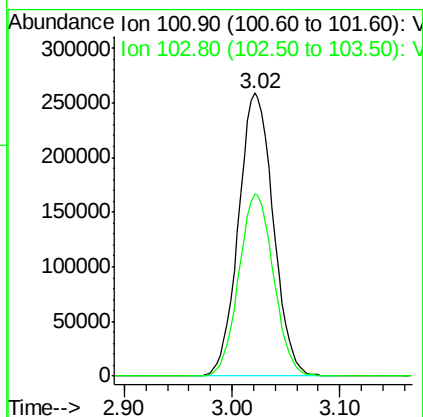
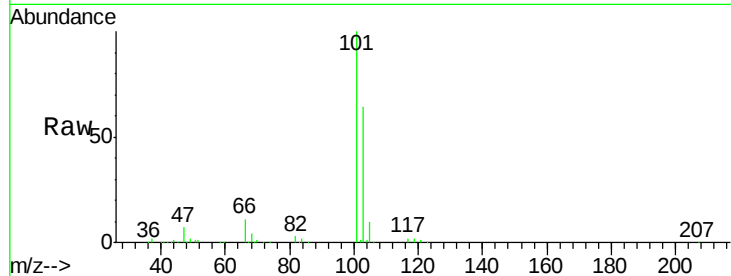


#7

Trichlorofluoromethane
 Concen: 48.878 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Instrument :
 MSVOA_N
 ClientSampled :

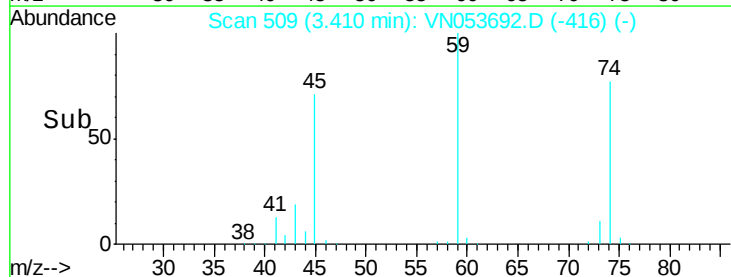
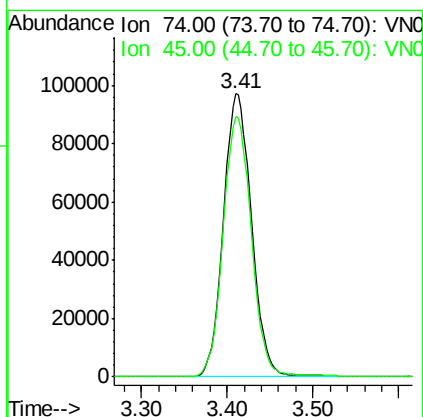
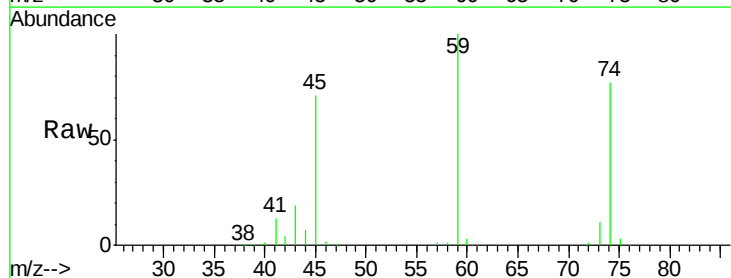
Tot Ion:101 Resp: 581325
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.6 77.4

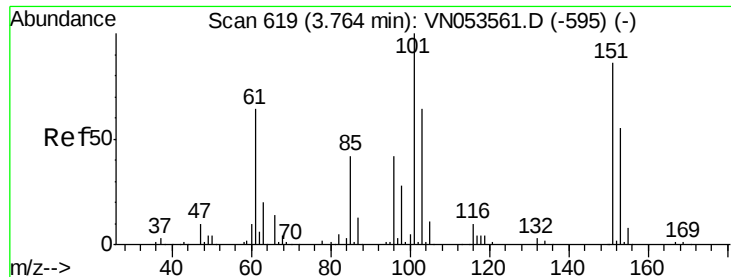


#8

Diethyl Ether
 Concen: 50.856 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion: 74 Resp: 220894
 Ion Ratio Lower Upper
 74 100
 45 91.7 47.9 143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.163 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampled :

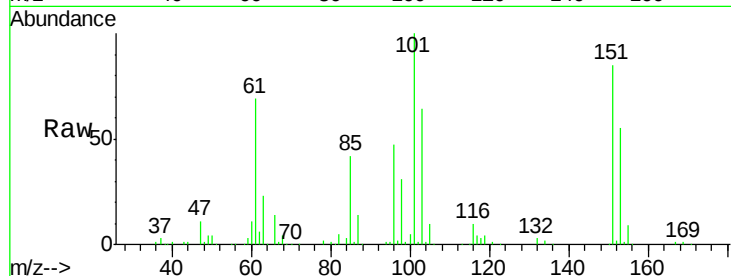
Tot Ion:101 Resp: 354262

Ion Ratio Lower Upper

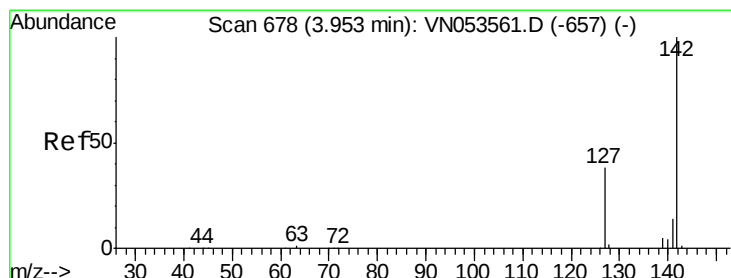
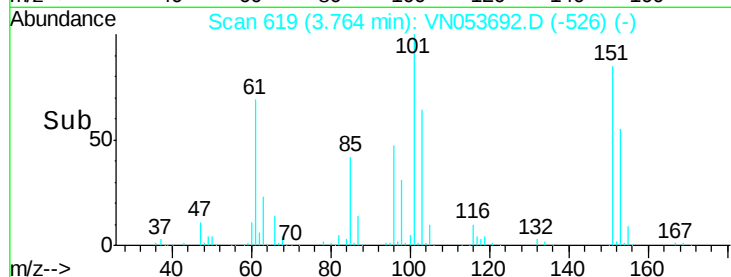
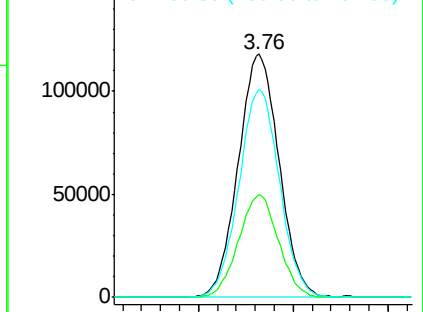
101 100

85 41.3 32.8 49.2

151 85.2 66.9 100.3



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 48.595 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

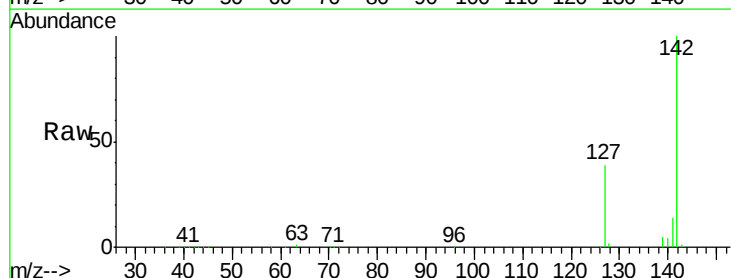
Tgt Ion:142 Resp: 561020

Ion Ratio Lower Upper

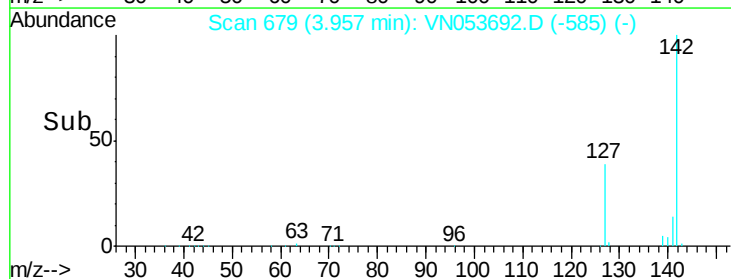
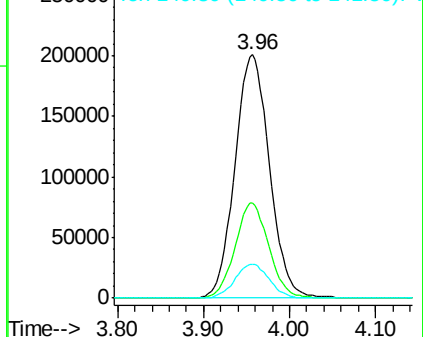
142 100

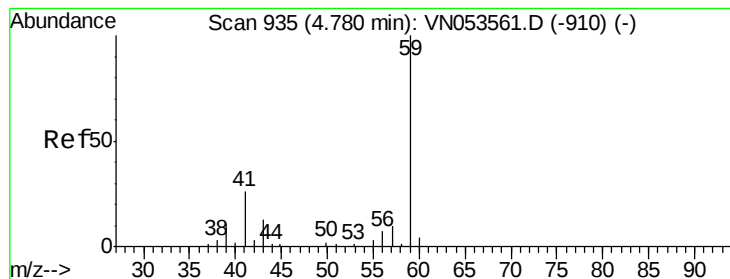
127 38.2 31.0 46.4

141 14.0 11.1 16.7



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



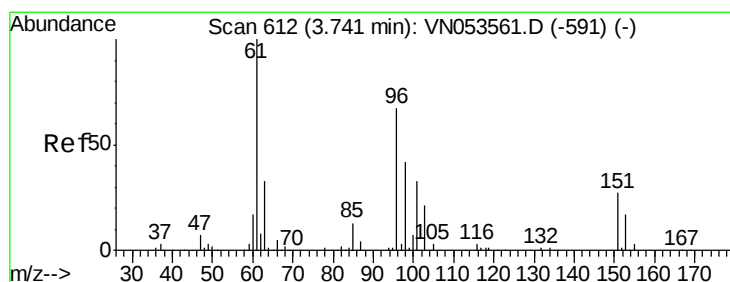
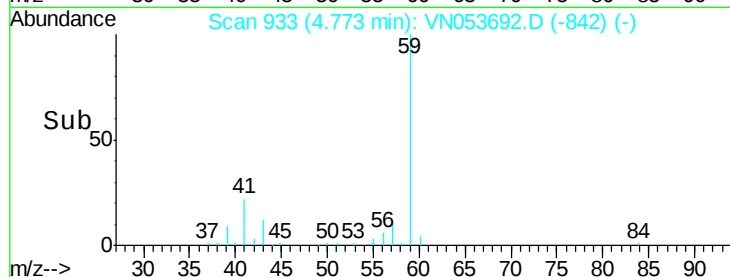
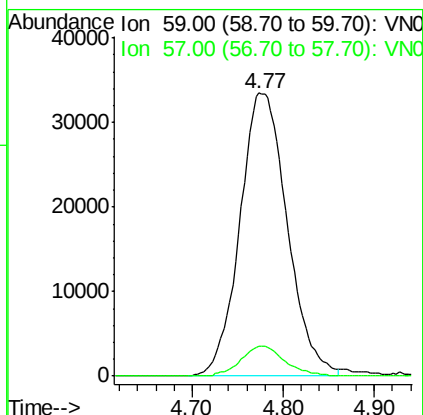
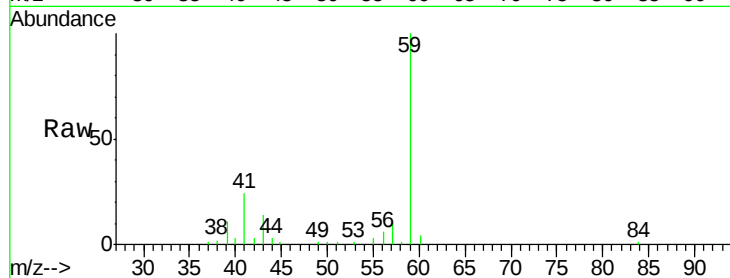


#11

Tert butyl alcohol
 Concen: 268.236 ug/l
 RT: 4.77 min Scan# 933
 Delta R.T. -0.01 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Instrument :
 MSVOA_N
 ClientSampleId :

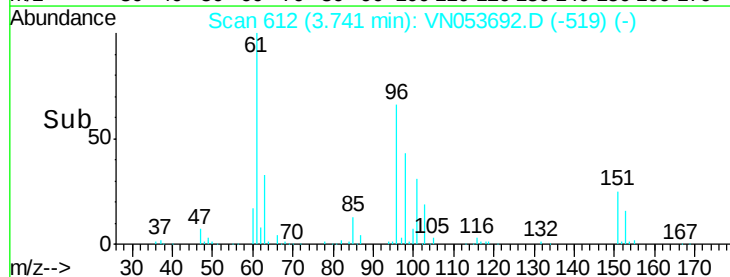
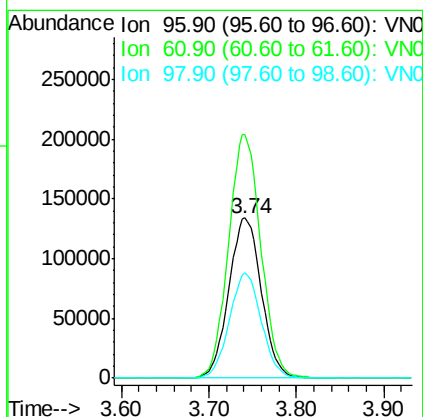
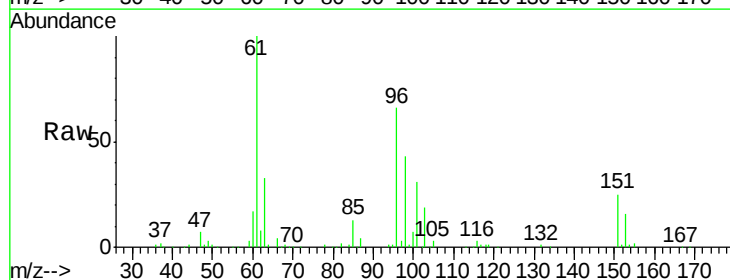
Tot Ion: 59 Resp: 121195
 Ion Ratio Lower Upper
 59 100
 57 9.8 8.2 12.4

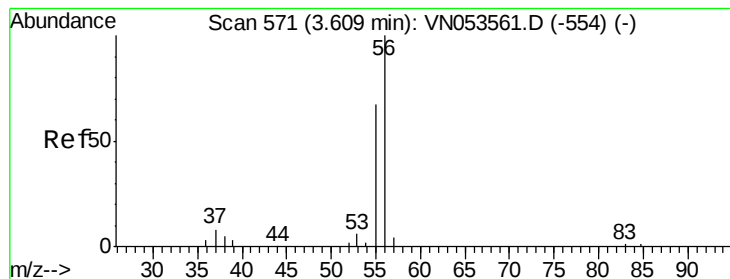


#12

1,1-Dichloroethene
 Concen: 49.158 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion: 96 Resp: 346425
 Ion Ratio Lower Upper
 96 100
 61 152.0 122.9 184.3
 98 65.8 49.4 74.0





#13

Acrolein

Concen: 353.641 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

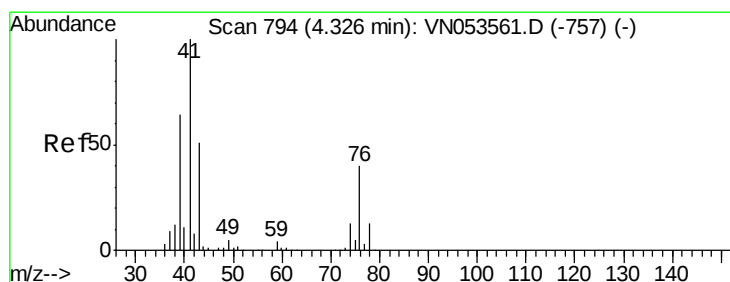
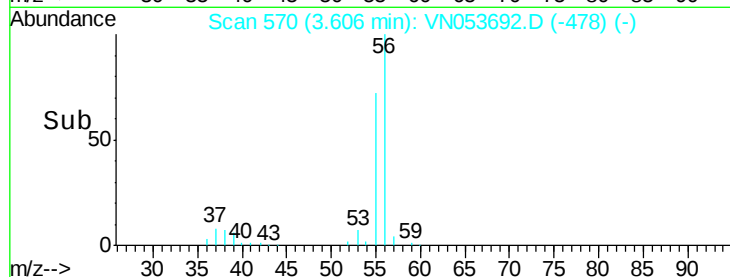
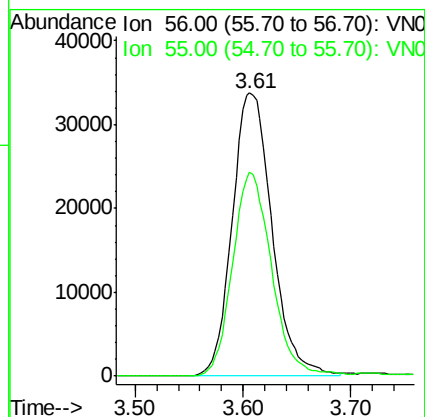
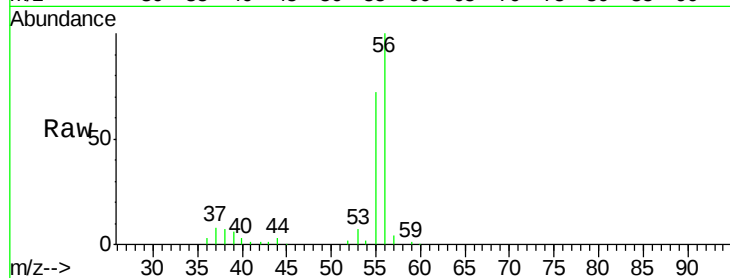
ClientSampleId :

Tot Ion: 56 Resp: 86995

Ion Ratio Lower Upper

56 100

55 69.8 57.4 86.0



#14

Allyl chloride

Concen: 49.778 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

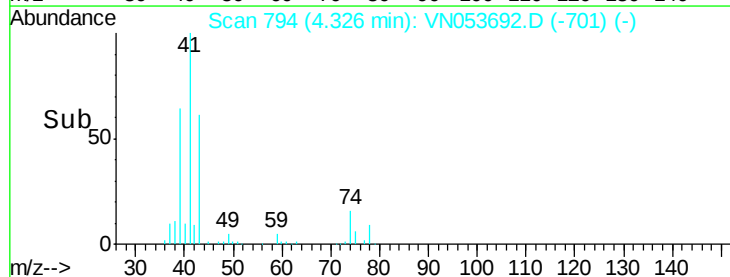
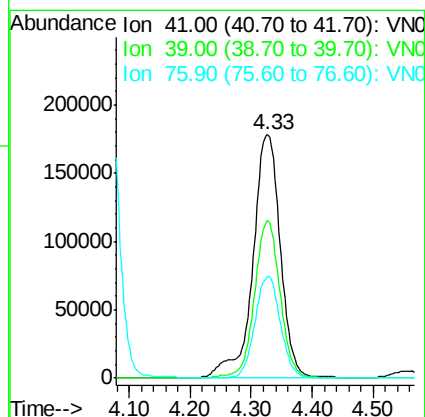
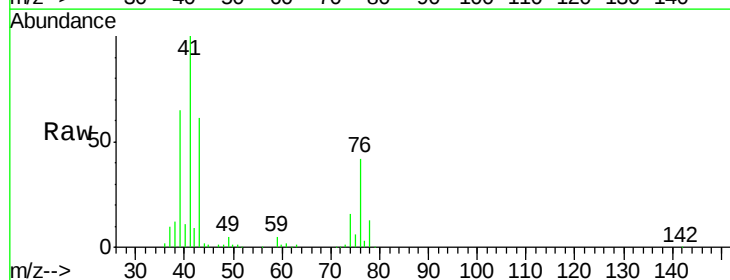
Tgt Ion: 41 Resp: 558542

Ion Ratio Lower Upper

41 100

39 60.1 48.9 73.3

76 38.2 29.4 44.2





#15

Acrylonitrile

Concen: 268.325 ug/l

RT: 4.99 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampled :

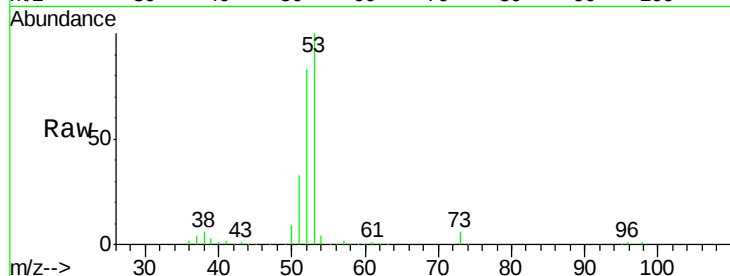
Tot Ion: 53 Resp: 654489

Ion Ratio Lower Upper

53 100

52 81.5 66.0 99.0

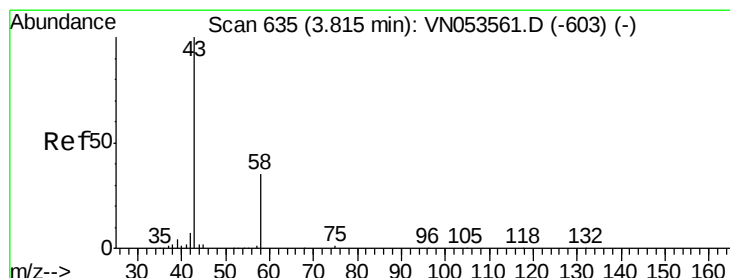
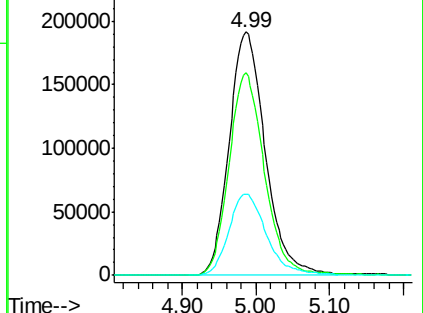
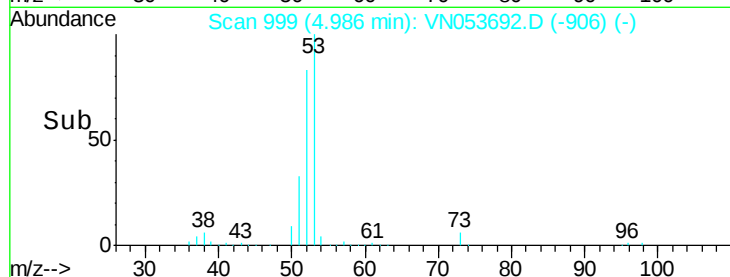
51 35.0 28.3 42.5



Abundance Ion 53.00 (52.70 to 53.70): VN053692.D (-906) (-)

Ion 52.00 (51.70 to 52.70): VN053692.D (-906) (-)

Ion 51.00 (50.70 to 51.70): VN053692.D (-906) (-)



#16

Acetone

Concen: 227.660 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN053692.D

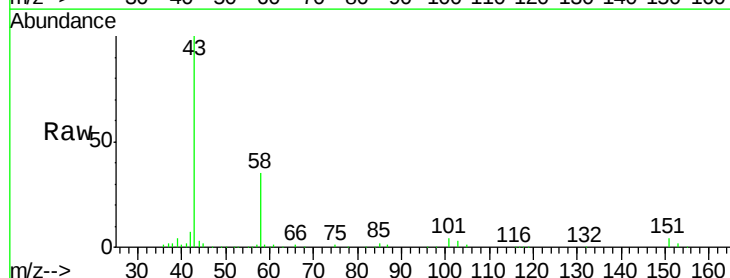
Acq: 8 Feb 2019 19:59

Tgt Ion: 43 Resp: 445814

Ion Ratio Lower Upper

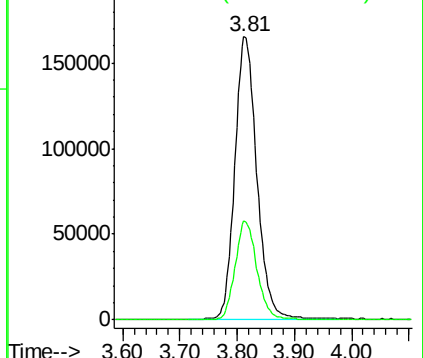
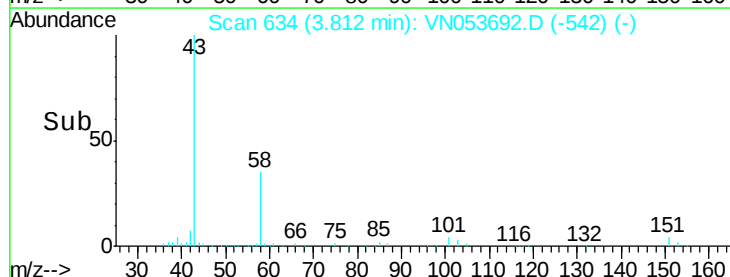
43 100

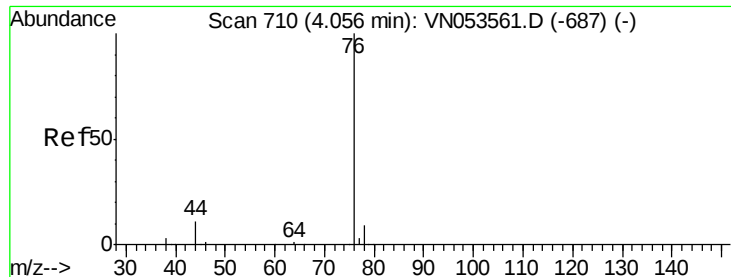
58 35.0 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053692.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053692.D (-542) (-)

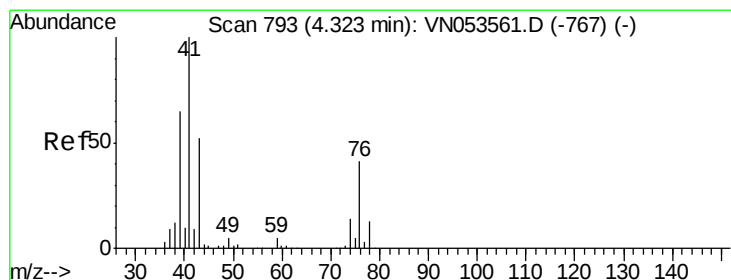
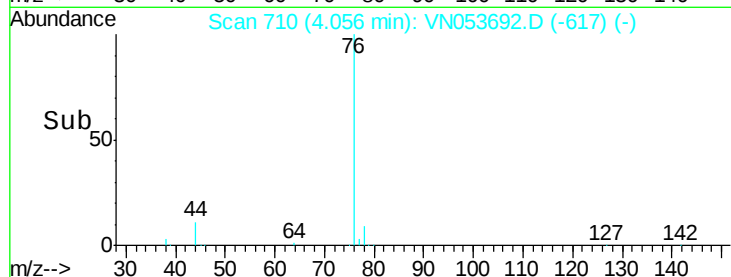
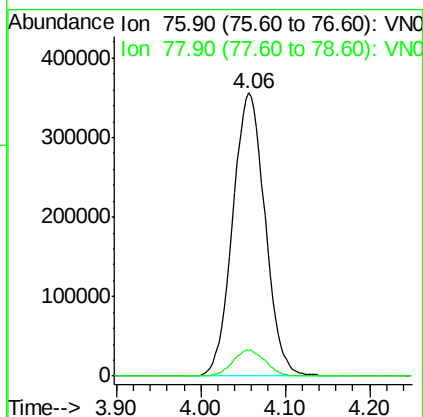
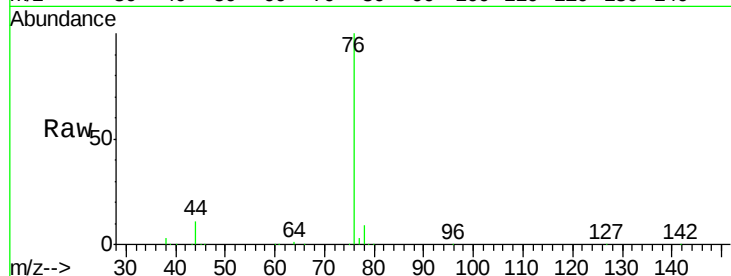




#17
Carbon Disulfide
Concen: 43.381 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

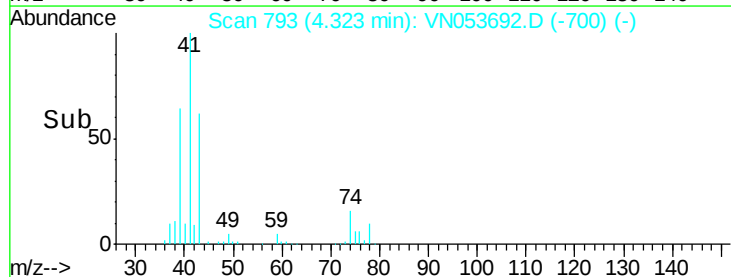
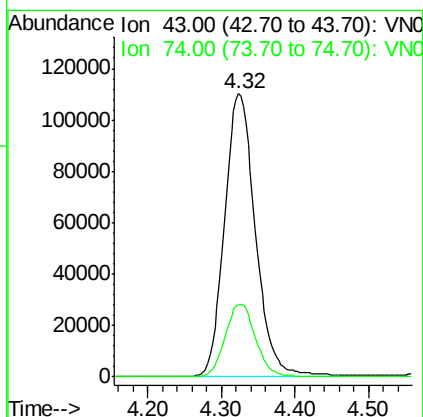
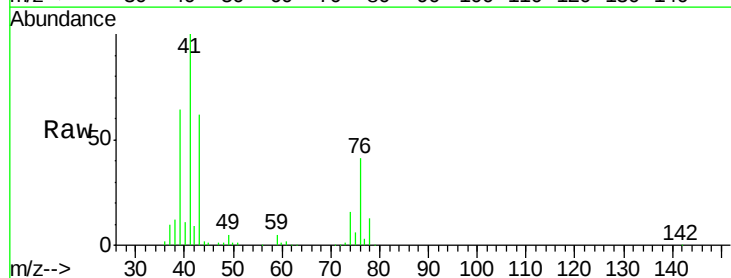
Instrument :
MSVOA_N
ClientSampled :

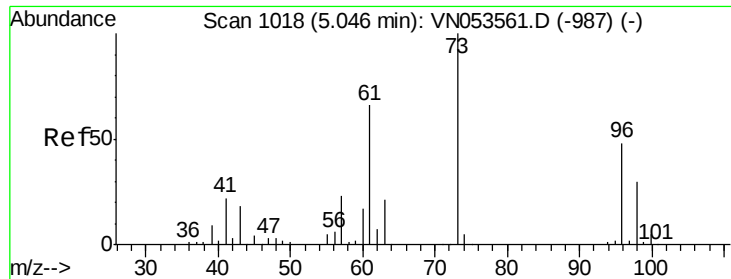
Tot Ion: 76 Resp: 951930
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9



#18
Methyl Acetate
Concen: 55.229 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 43 Resp: 320292
Ion Ratio Lower Upper
43 100
74 25.4 19.4 29.2

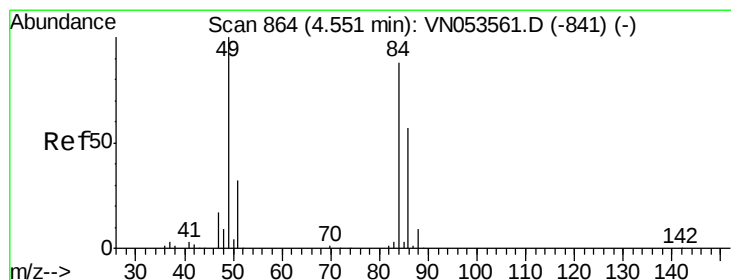
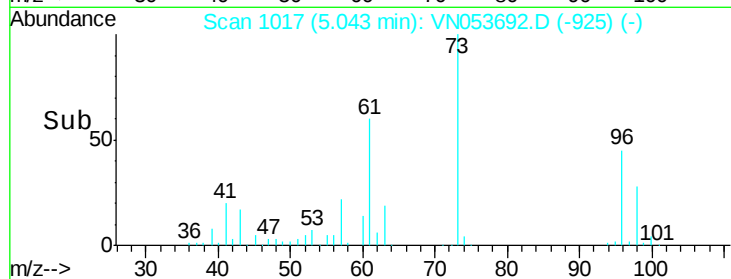
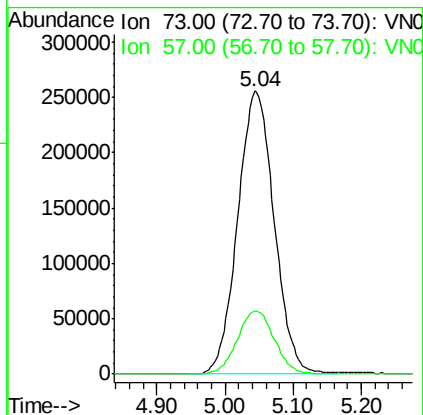
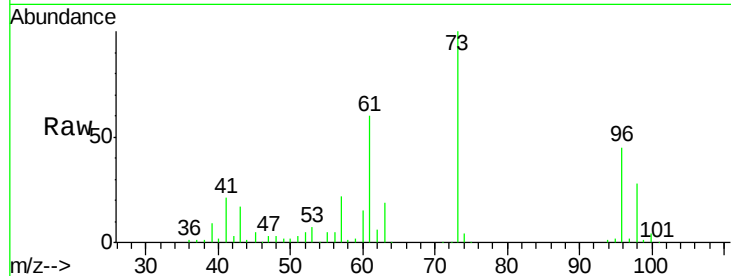




#19
Methyl tert-butyl Ether
Concen: 53.173 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

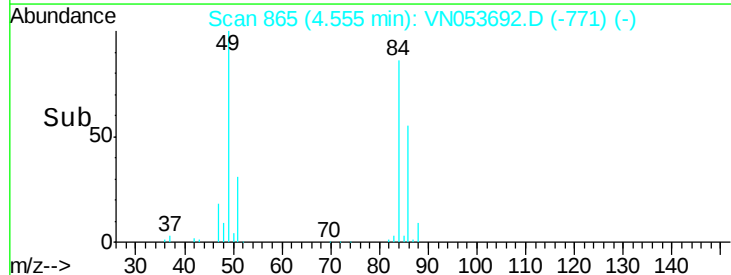
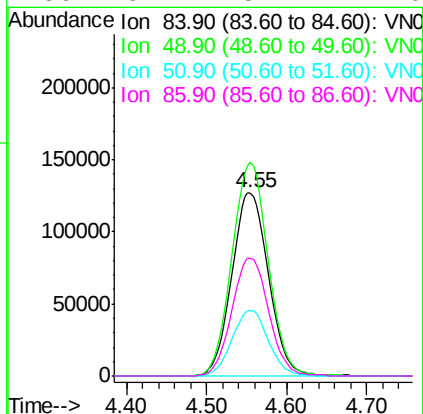
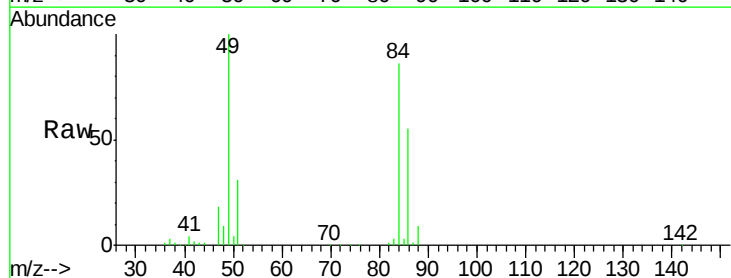
Instrument :
MSVOA_N
ClientSampled :

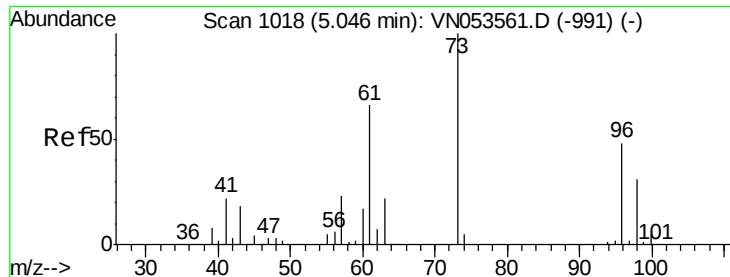
Tot Ion: 73 Resp: 949922
Ion Ratio Lower Upper
73 100
57 22.2 18.3 27.5



#20
Methylene Chloride
Concen: 48.166 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 84 Resp: 395715
Ion Ratio Lower Upper
84 100
49 116.7 94.3 141.5
51 36.0 29.4 44.2
86 64.7 51.4 77.0

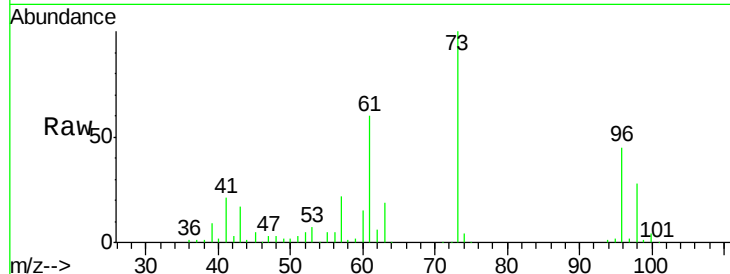




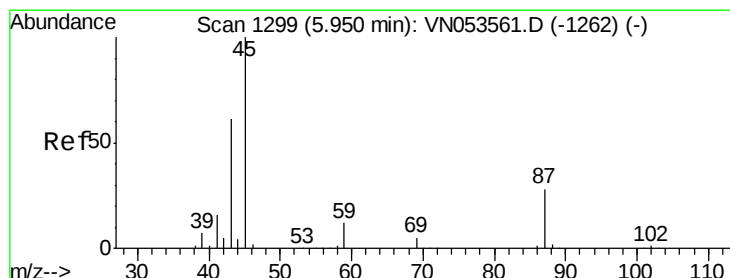
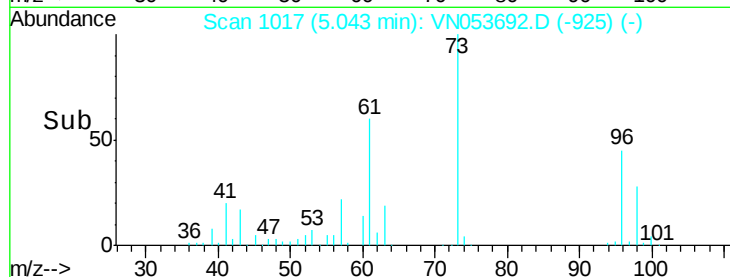
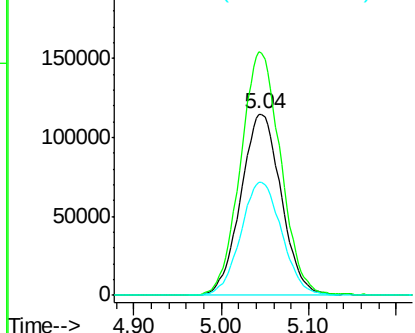
#21
trans-1,2-Dichloroethene
Concen: 48.425 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 96 Resp: 368172
Ion Ratio Lower Upper
96 100
61 134.3 110.1 165.1
98 62.3 50.0 75.0

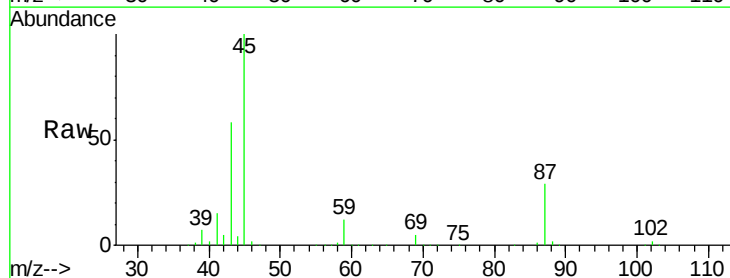


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

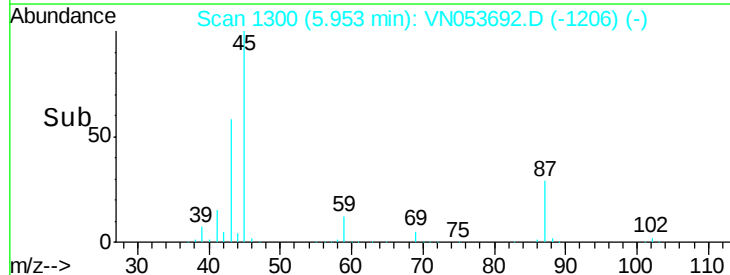
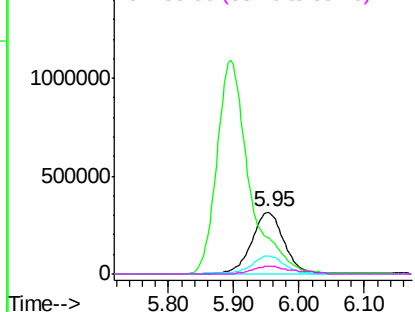


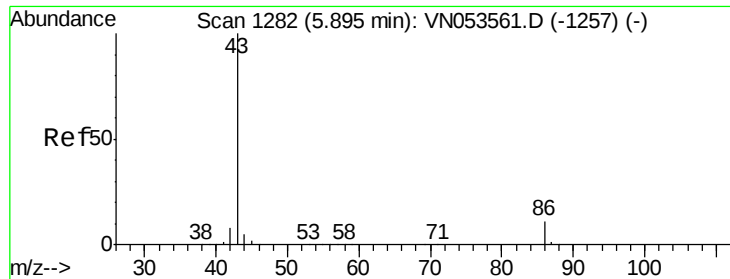
#22
Diisopropyl ether
Concen: 52.789 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 45 Resp: 1097535
Ion Ratio Lower Upper
45 100
43 56.7 44.2 66.4
87 28.0 22.7 34.1
59 12.0 9.4 14.2



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 260.889 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

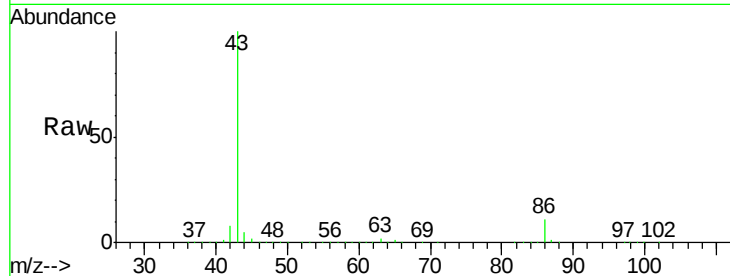
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3752300

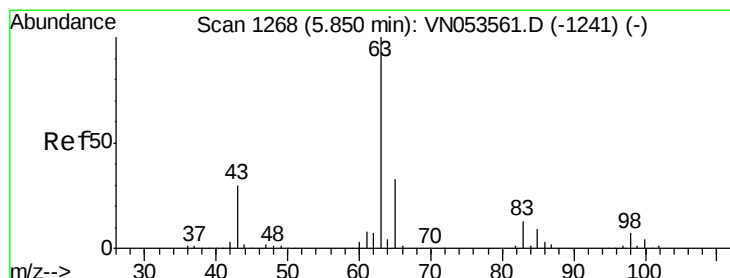
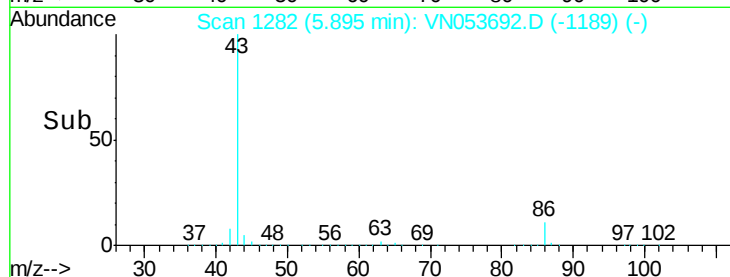
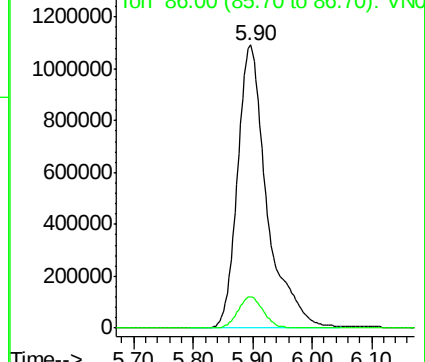
Ion Ratio Lower Upper

43 100

86 11.2 8.4 12.6



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-1257) (-)



#24

1,1-Dichloroethane

Concen: 49.742 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

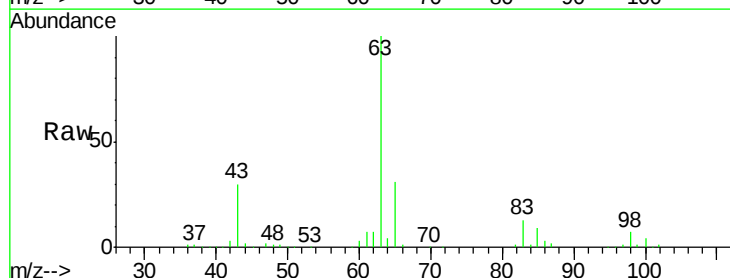
Tgt Ion: 63 Resp: 689781

Ion Ratio Lower Upper

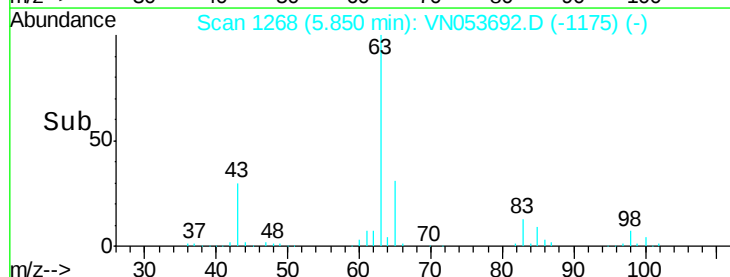
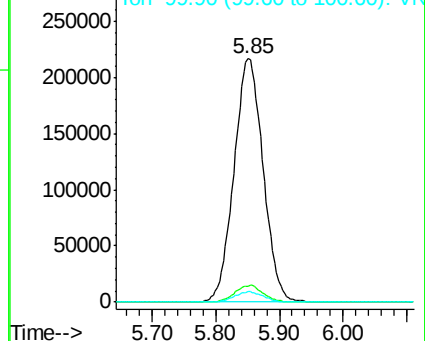
63 100

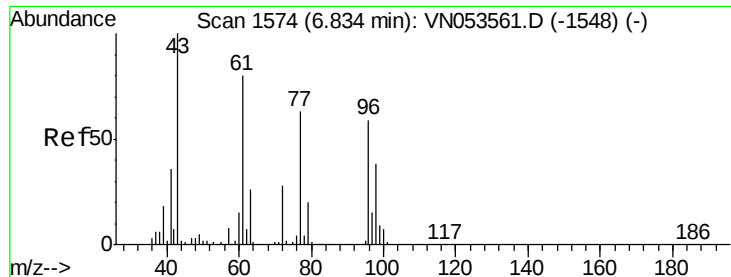
98 6.7 3.3 9.9

100 4.2 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN053561.D (-1241) (-)

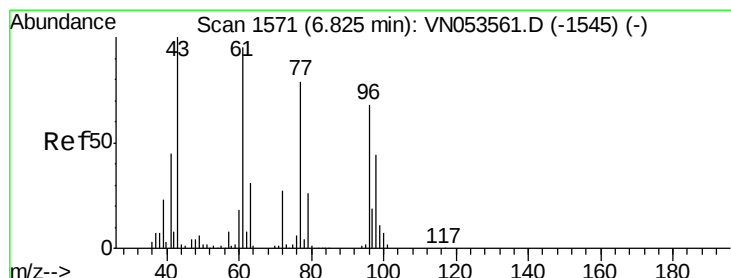
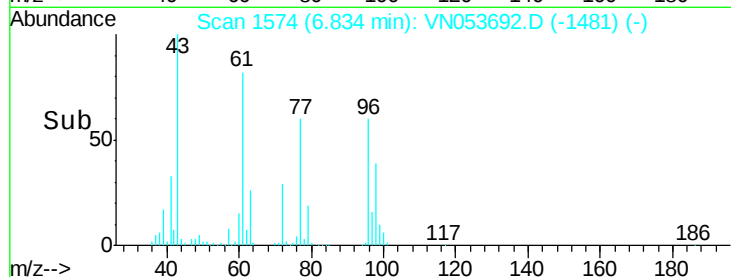
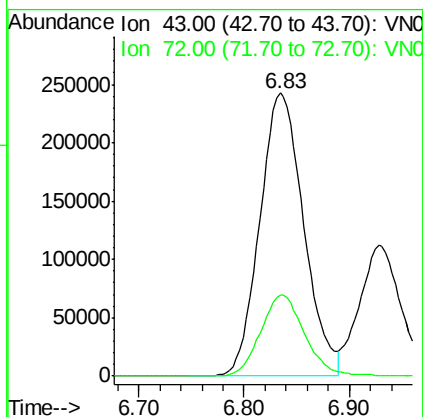
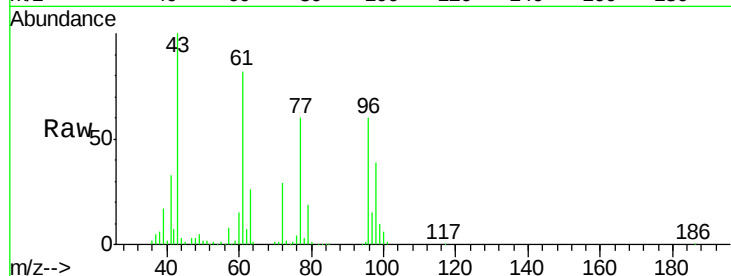




#25
2-Butanone
Concen: 250.396 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

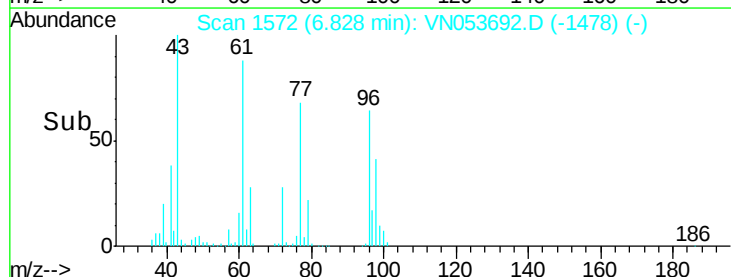
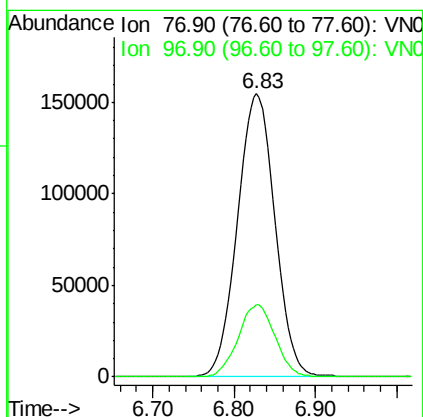
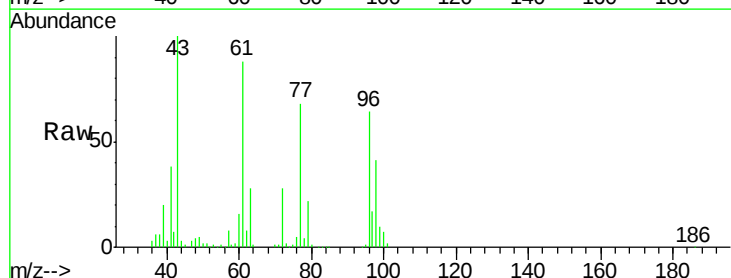
Instrument :
MSVOA_N
ClientSampled :

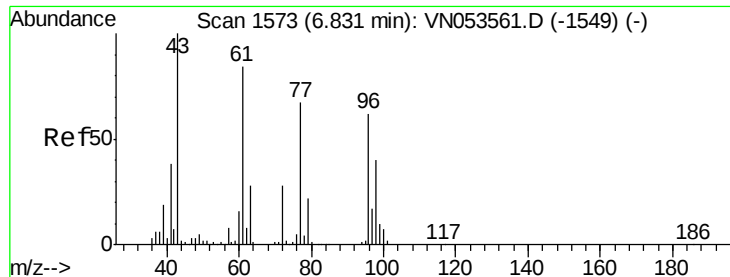
Tot Ion: 43 Resp: 699329
Ion Ratio Lower Upper
43 100
72 28.6 22.0 33.0



#26
2,2-Dichloropropane
Concen: 46.514 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 77 Resp: 492389
Ion Ratio Lower Upper
77 100
97 25.2 12.2 36.6



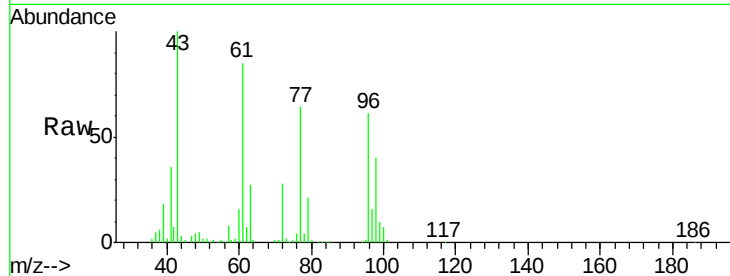


#27

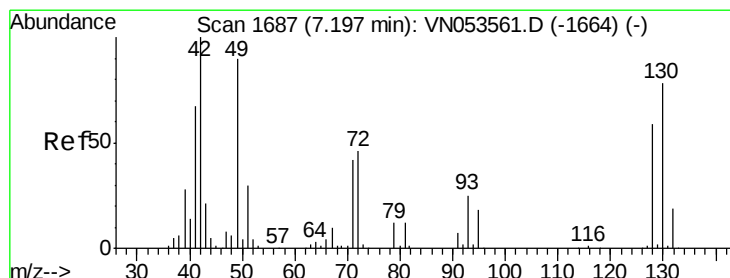
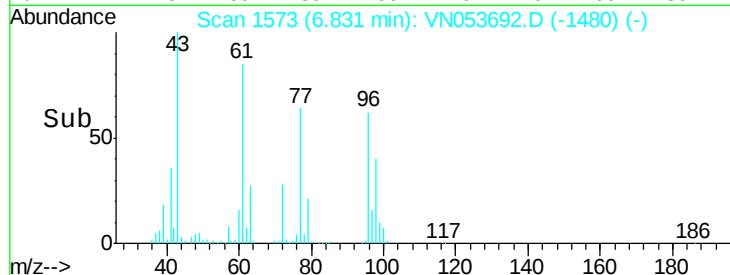
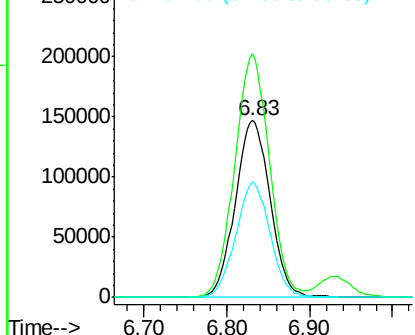
cis-1,2-Dichloroethene
Concen: 50.829 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 96 Resp: 429716
Ion Ratio Lower Upper
96 100
61 137.2 0.0 283.8
98 64.1 0.0 129.2



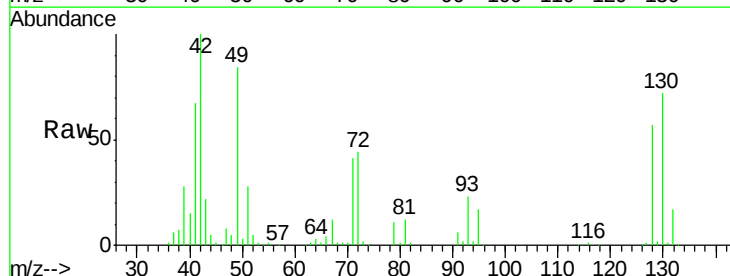
Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



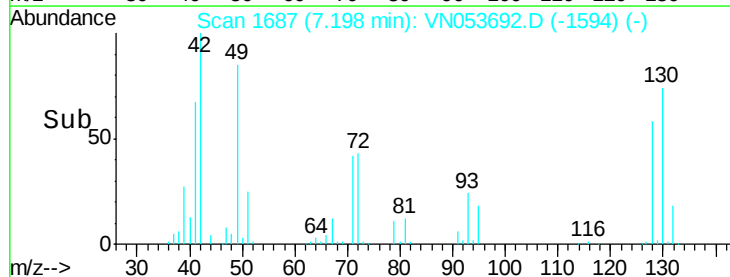
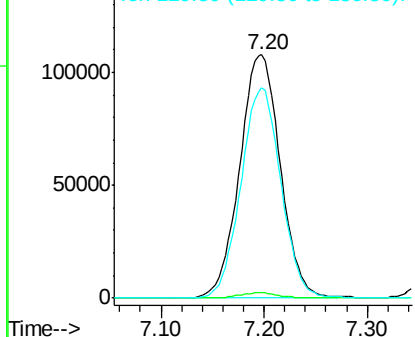
#28

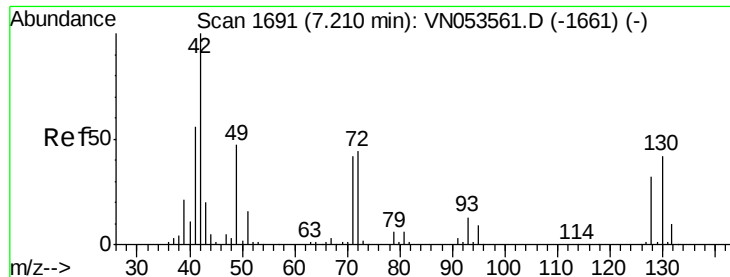
Bromochloromethane
Concen: 48.975 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 49 Resp: 294726
Ion Ratio Lower Upper
49 100
129 2.1 0.0 4.0
130 85.5 66.3 99.5



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

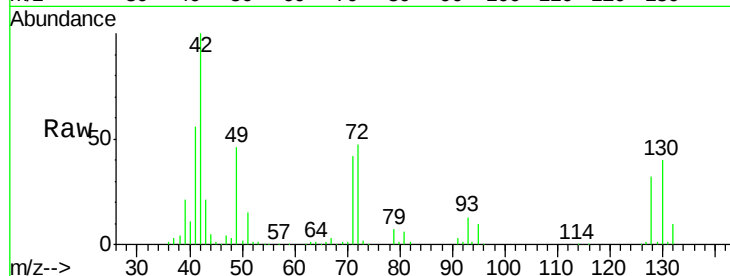




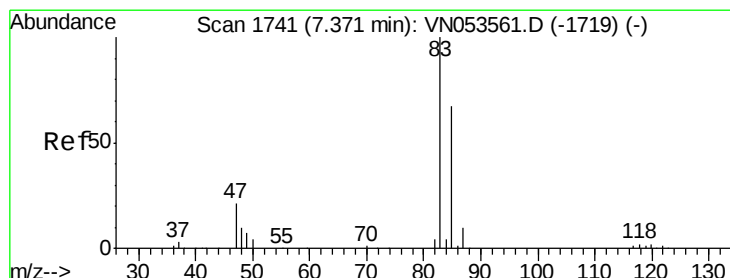
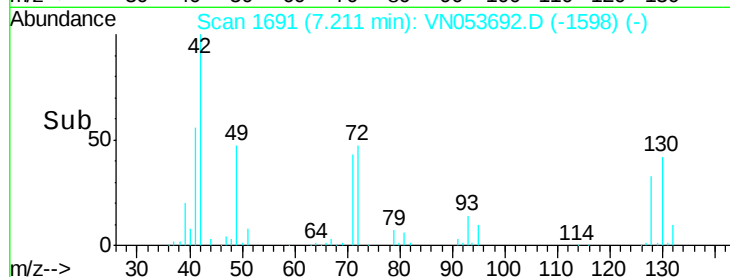
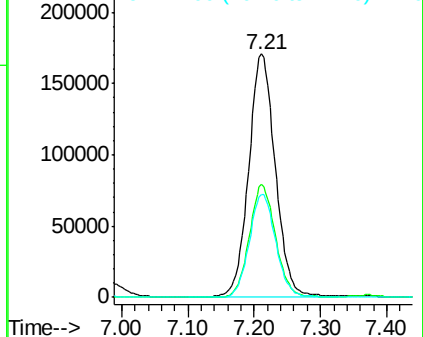
#29
Tetrahydrofuran
Concen: 265.267 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 475729
Ion Ratio Lower Upper
42 100
72 45.7 35.2 52.8
71 42.3 33.0 49.4

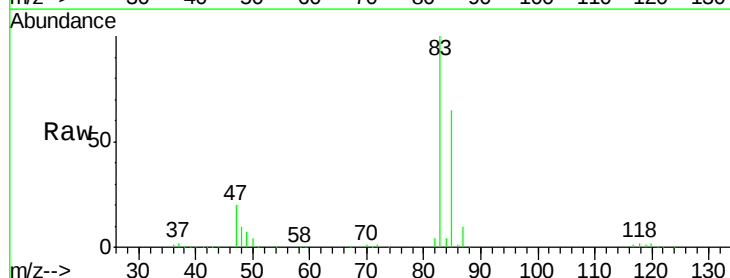


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

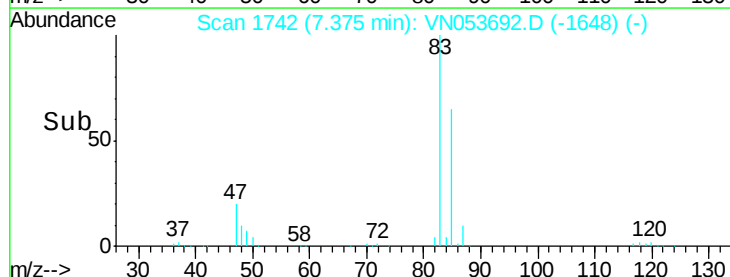
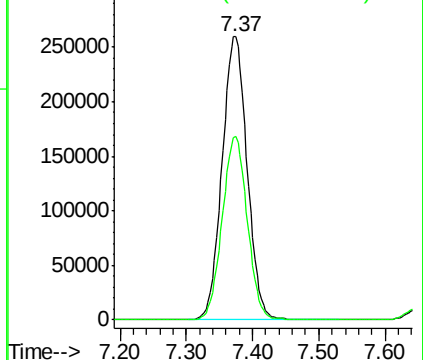


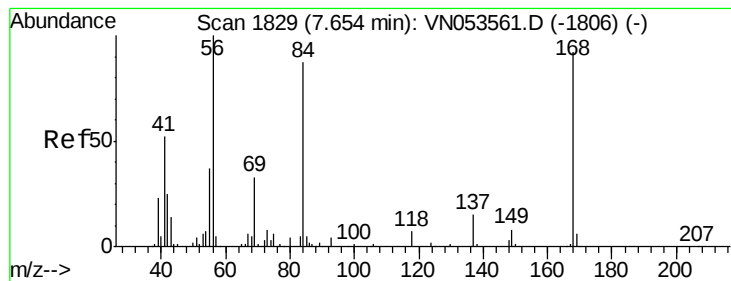
#30
Chloroform
Concen: 49.543 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 83 Resp: 681046
Ion Ratio Lower Upper
83 100
85 64.7 52.2 78.2



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 47.239 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

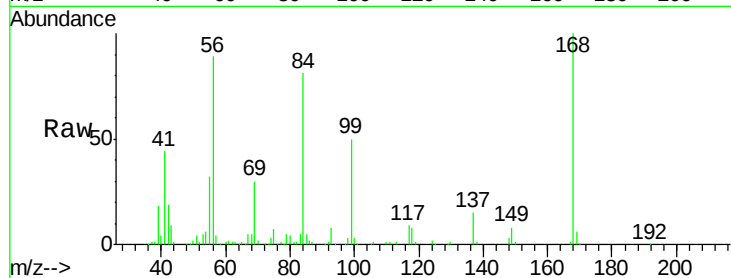
Tot Ion: 56 Resp: 610028

Ion Ratio Lower Upper

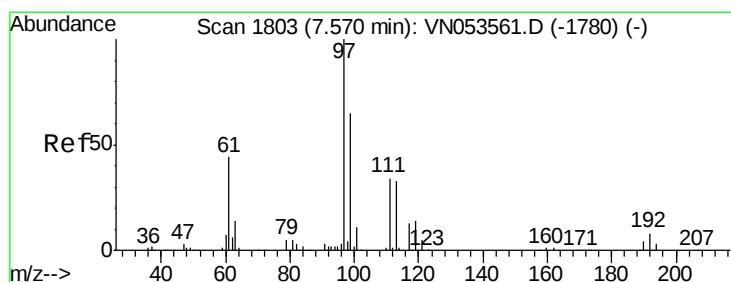
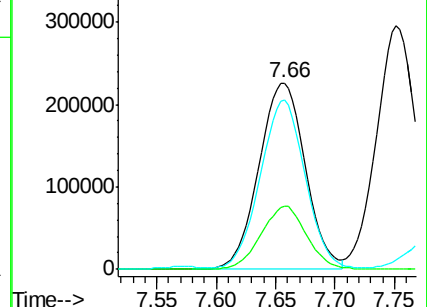
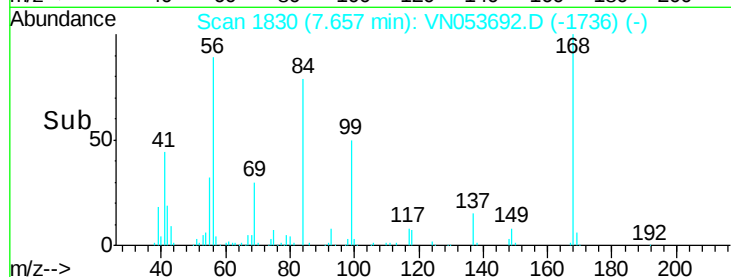
56 100

69 34.1 26.4 39.6

84 89.8 67.9 101.9



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 49.706 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

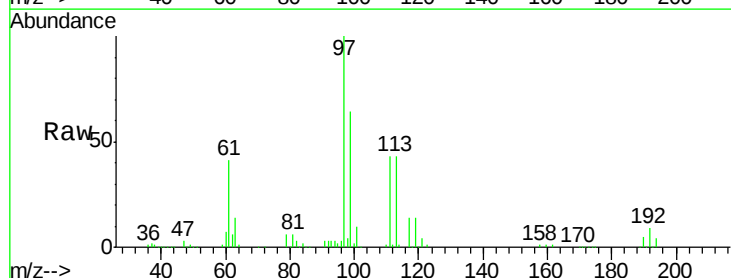
Tgt Ion: 97 Resp: 568636

Ion Ratio Lower Upper

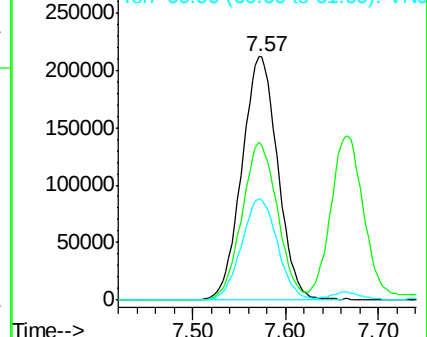
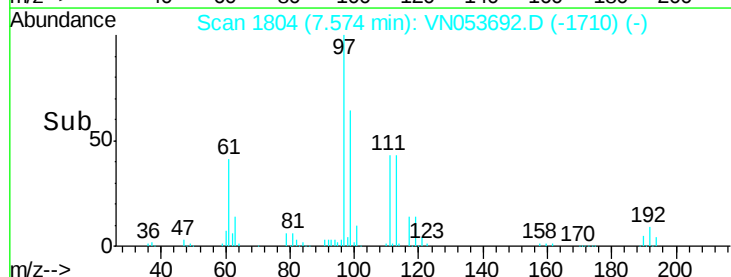
97 100

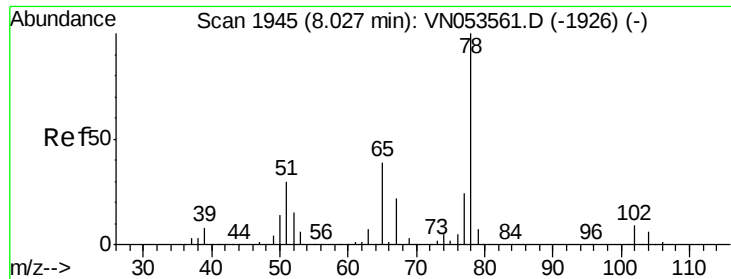
99 64.2 52.0 78.0

61 41.8 34.4 51.6



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.706 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

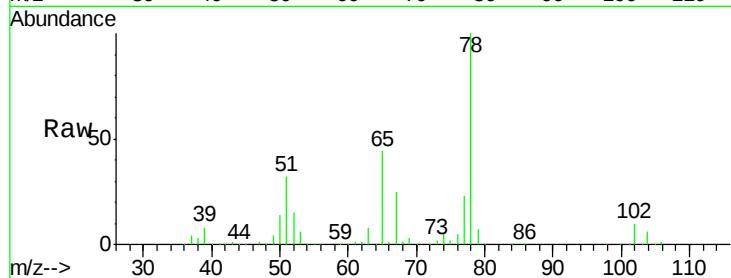
ClientSampled :

Tot Ion: 65 Resp: 396012

Ion Ratio Lower Upper

65 100

67 56.1 0.0 111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053692.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053692.D (-1852) (-)

8.03

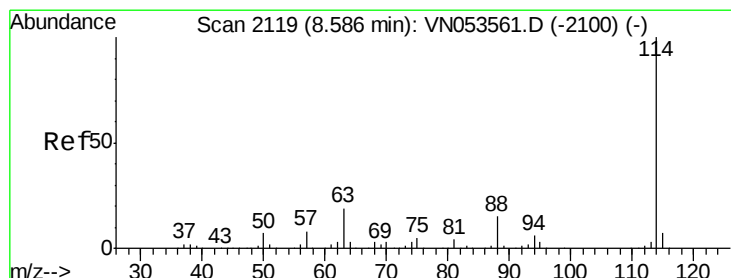
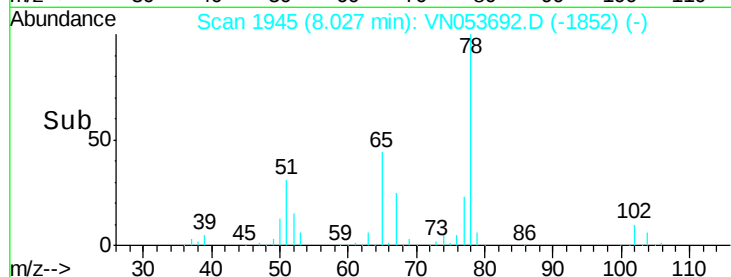
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

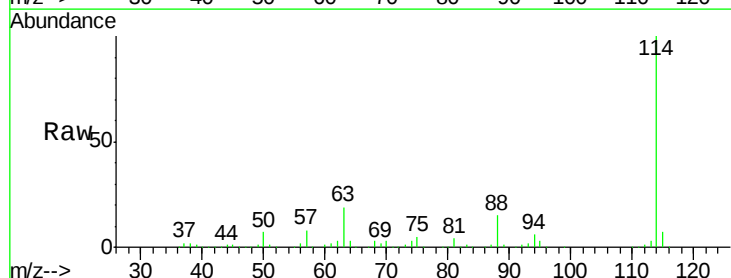
Tgt Ion: 114 Resp: 1183234

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): VN053692.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN053692.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN053692.D (-2026) (-)

8.59

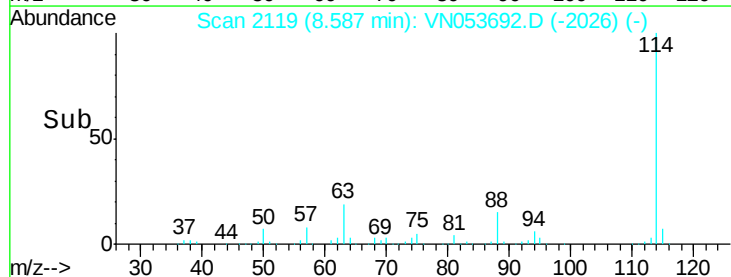
600000

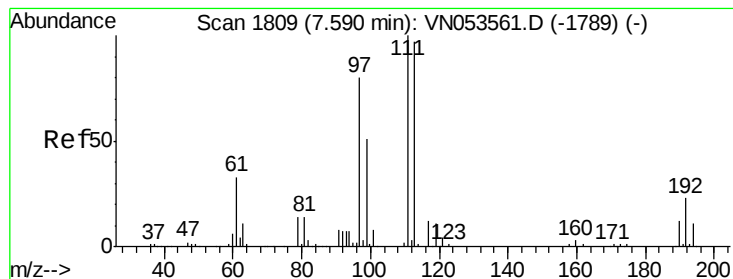
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampleId :

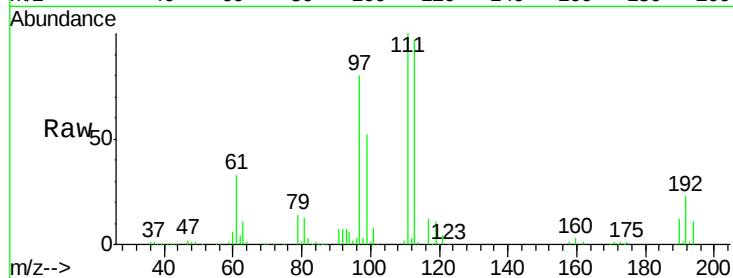
Tot Ion:113 Resp: 388020

Ion Ratio Lower Upper

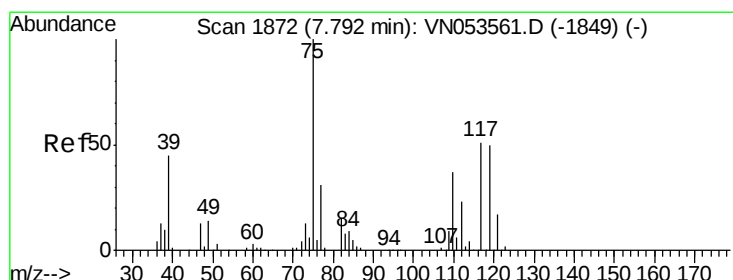
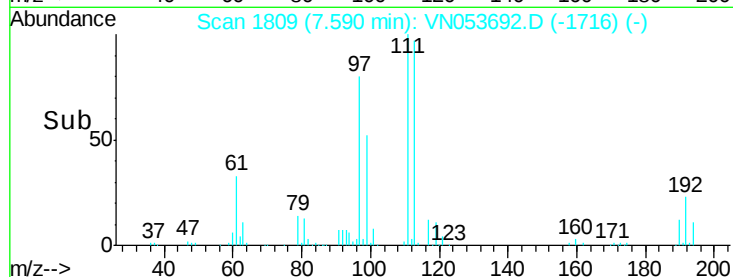
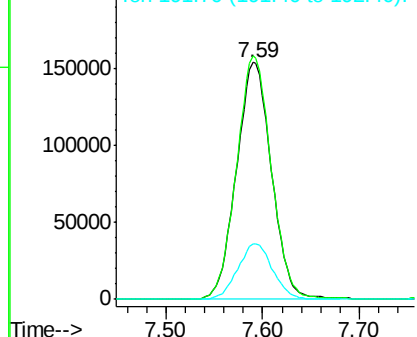
113 100

111 101.8 81.1 121.7

192 23.4 18.2 27.2



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: 48.632 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

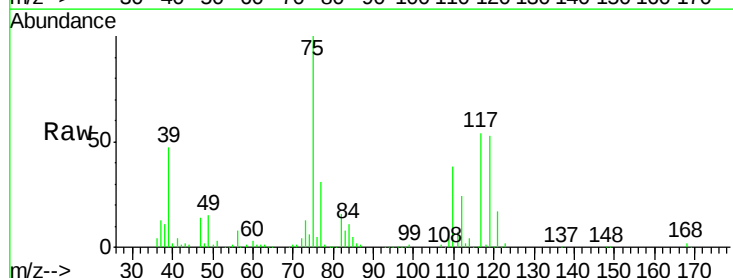
Tgt Ion: 75 Resp: 518710

Ion Ratio Lower Upper

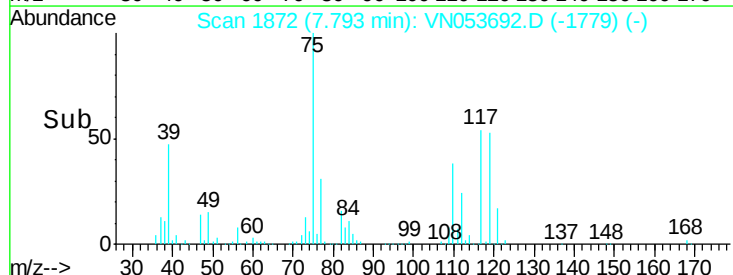
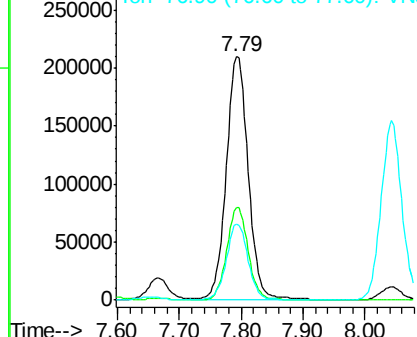
75 100

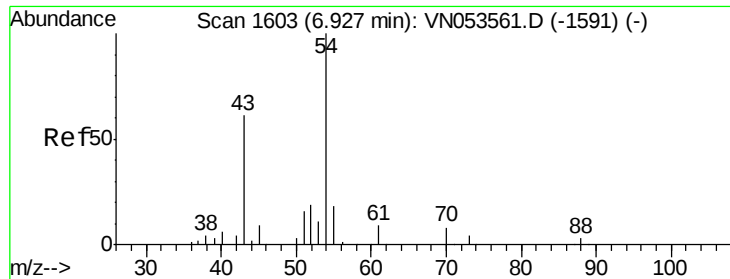
110 37.0 18.1 54.3

77 31.3 25.1 37.7



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

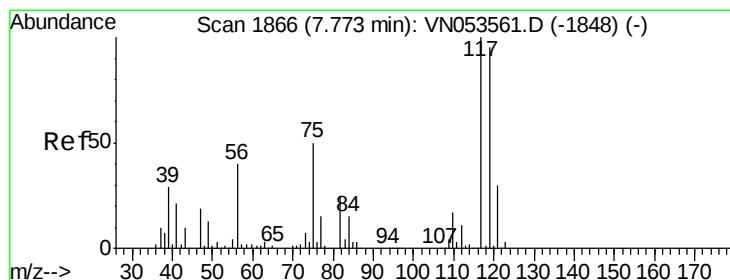
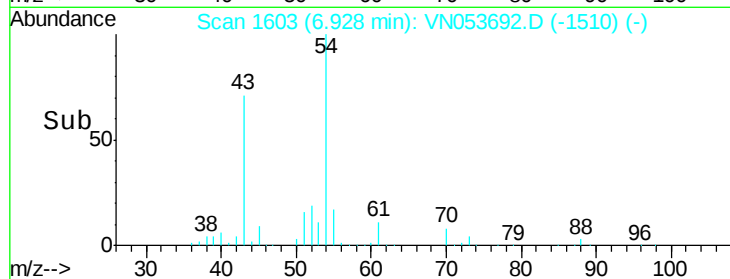
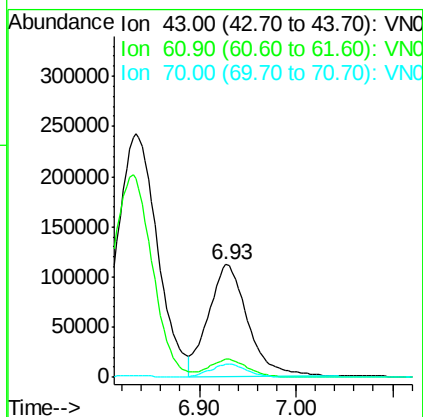
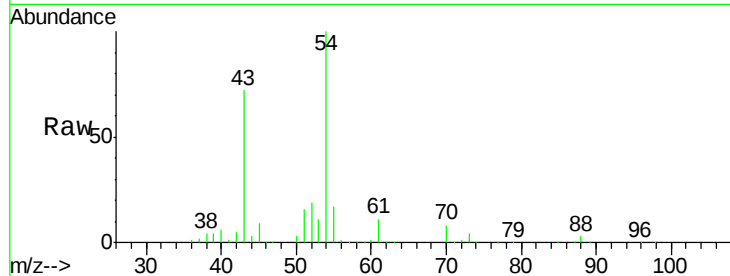




#37
Ethyl Acetate
Concen: 52.670 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

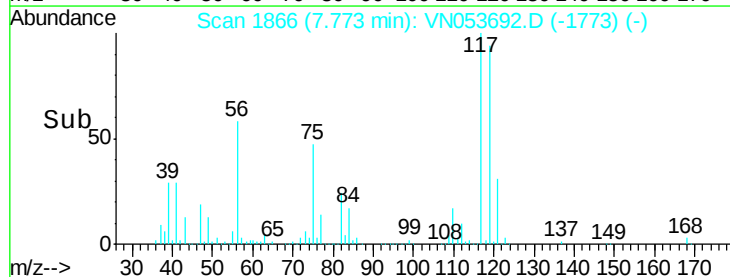
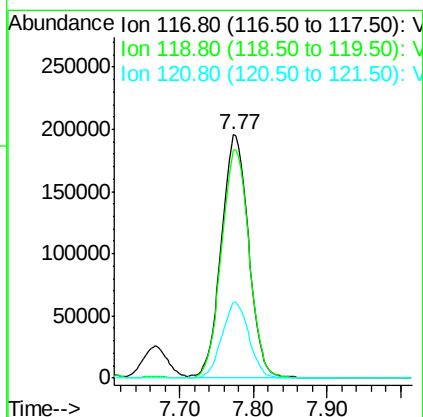
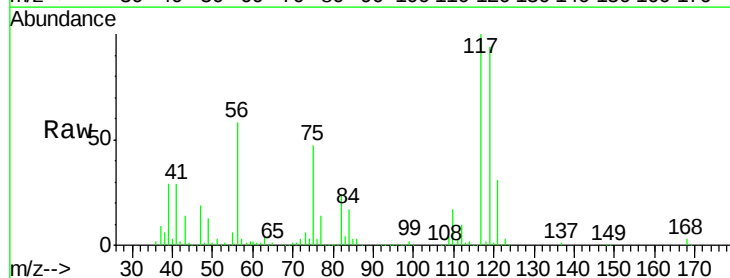
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 313756
Ion Ratio Lower Upper
43 100
61 15.3 11.8 17.6
70 10.7 8.6 12.8



#38
Carbon Tetrachloride
Concen: 46.820 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 117 Resp: 503074
Ion Ratio Lower Upper
117 100
119 93.7 77.2 115.8
121 31.3 24.6 37.0

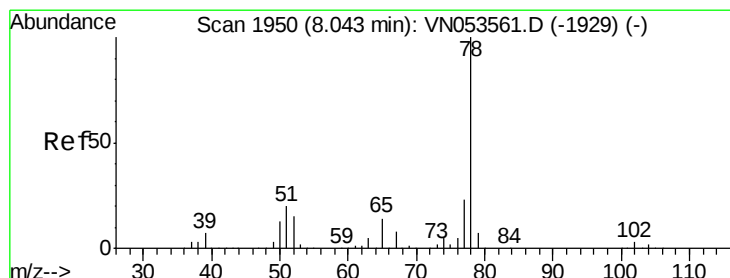
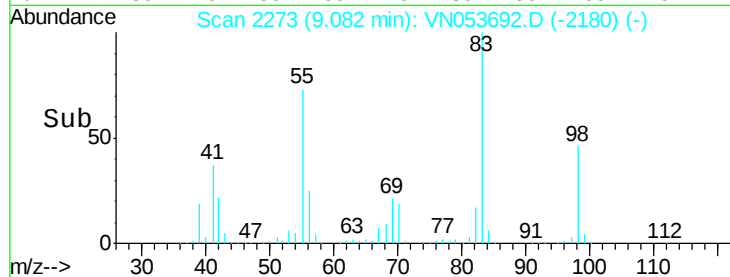
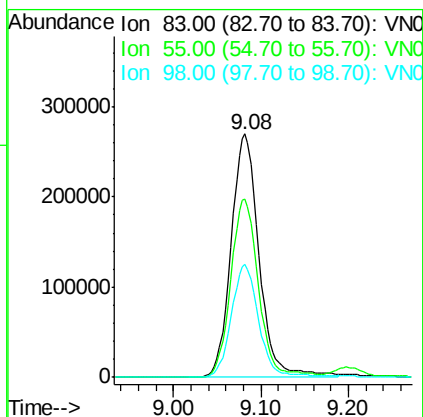
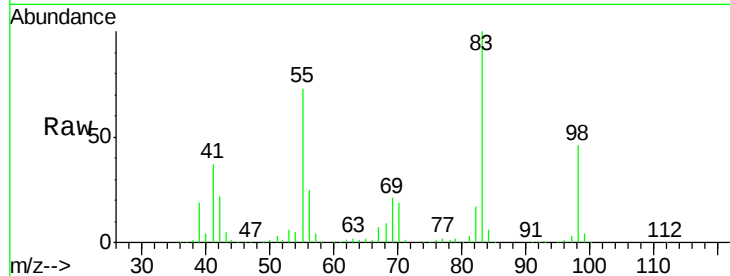




#39
Methvlcvclohexane
Concen: 47.332 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

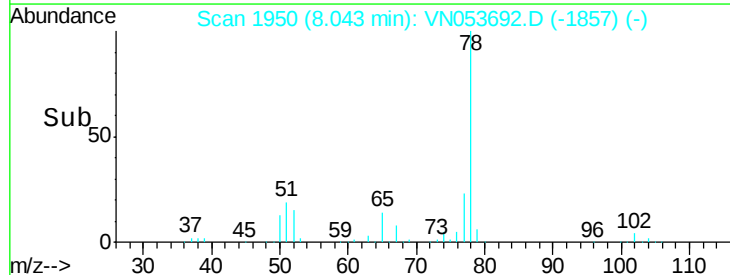
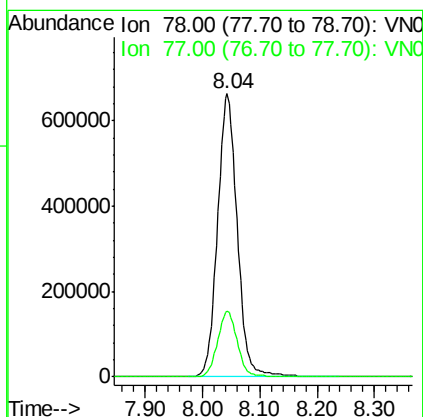
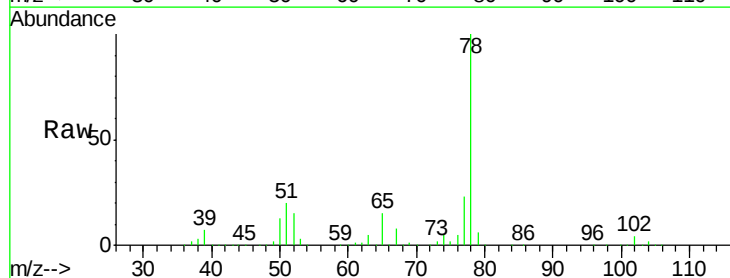
Instrument :
MSVOA_N
ClientSampleId :

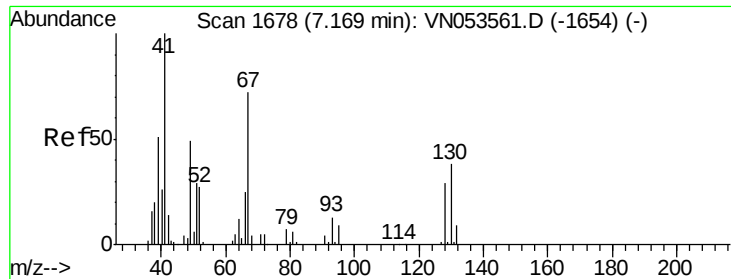
Tot Ion: 83 Resp: 598953
Ion Ratio Lower Upper
83 100
55 73.3 60.1 90.1
98 46.3 36.6 55.0



#40
Benzene
Concen: 48.150 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 78 Resp: 1583712
Ion Ratio Lower Upper
78 100
77 23.3 18.8 28.2

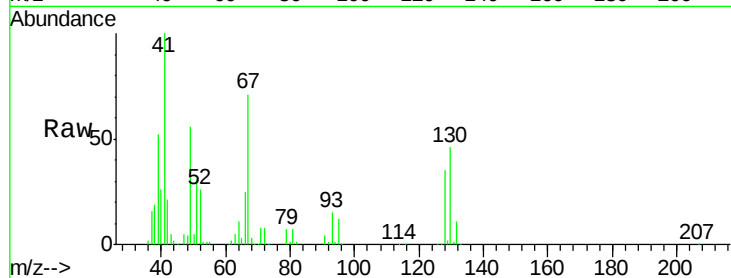




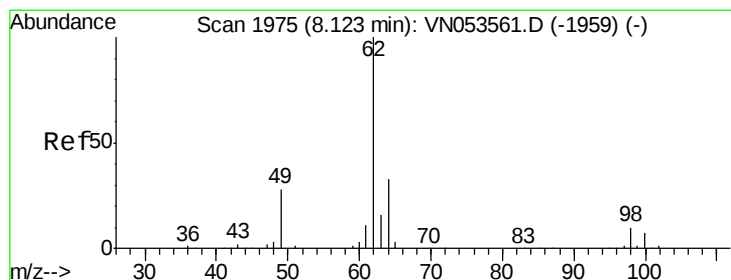
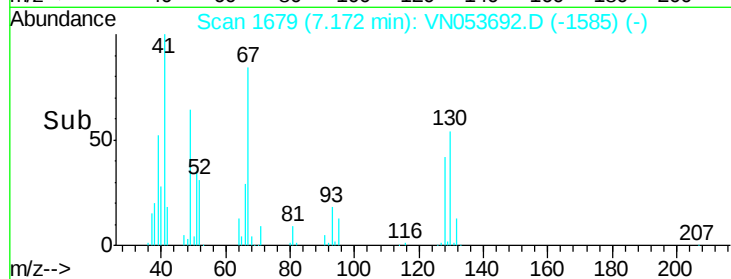
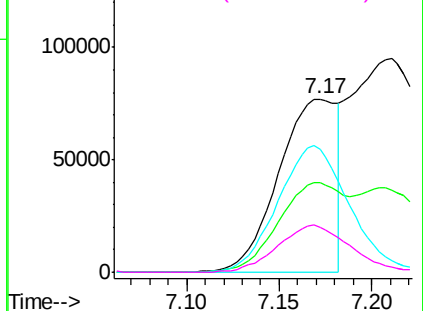
#41
Methacrylonitrile
Concen: 50.820 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	41	Resp:	169201
Ion	Ratio	Lower	Upper
41	100		
39	58.7	46.8	70.2
67	89.7	63.0	94.6
52	33.3	23.8	35.8

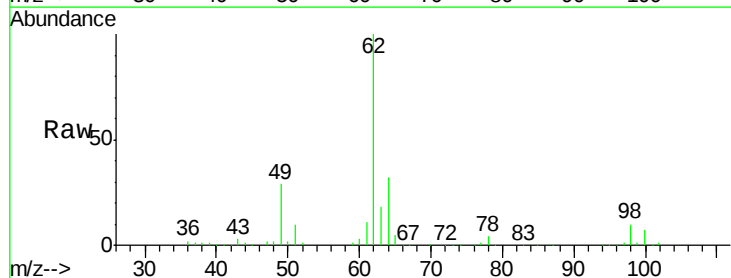


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

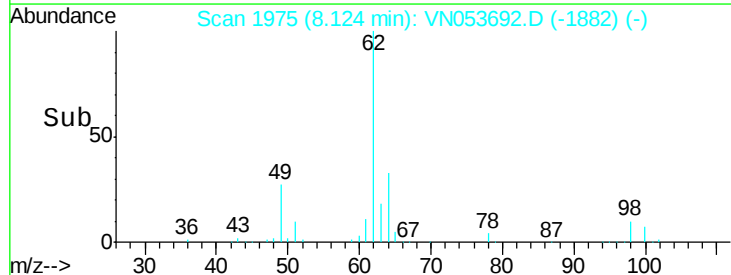
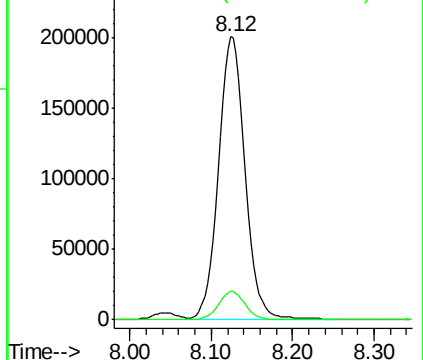


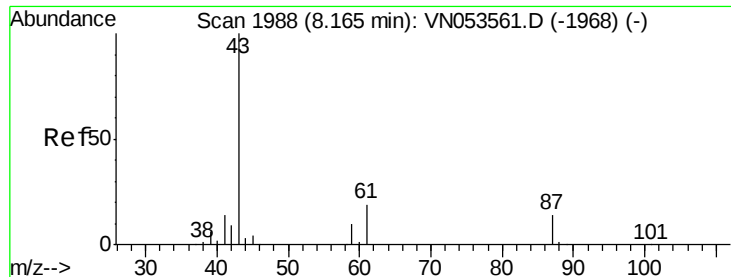
#42
1,2-Dichloroethane
Concen: 47.292 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion:	62	Resp:	461865
Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	19.6



Abundance Ion 61.90 (61.60 to 62.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



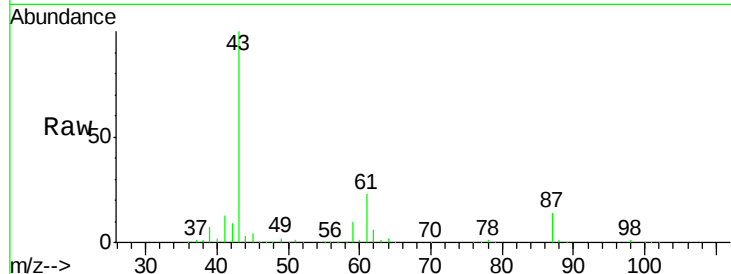


#43

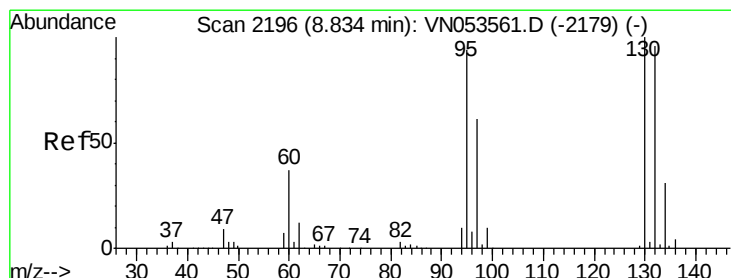
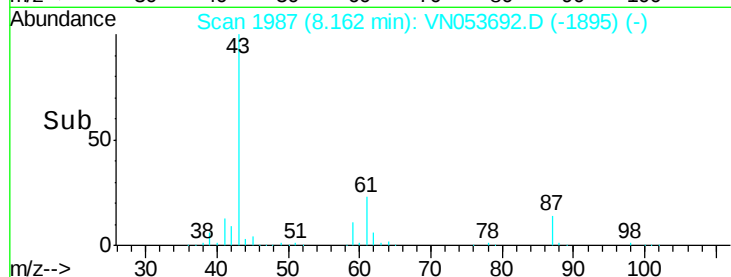
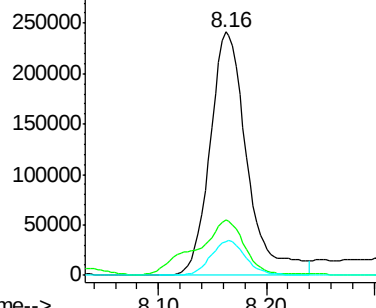
Isopropyl Acetate
 Concen: 49.967 ug/l
 RT: 8.16 min Scan# 1987
 Delta R.T. -0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 574842
 Ion Ratio Lower Upper
 43 100
 61 29.1 23.9 35.9
 87 13.5 11.0 16.6



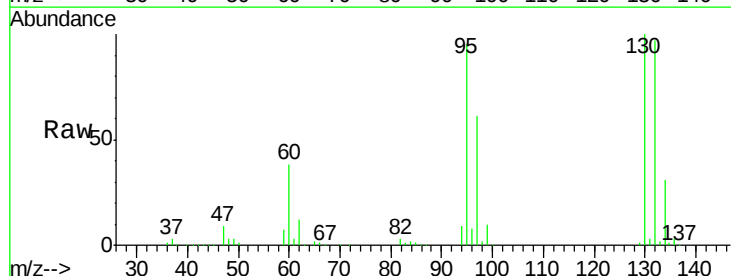
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



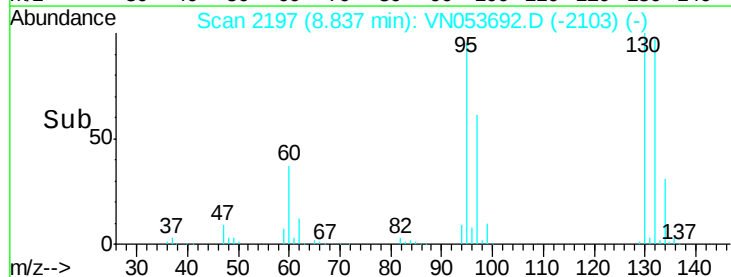
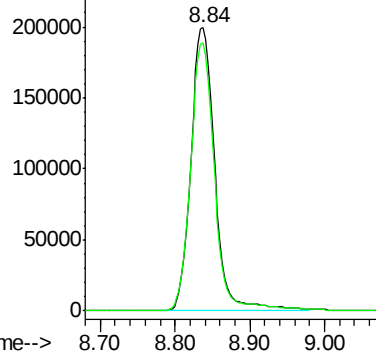
#44

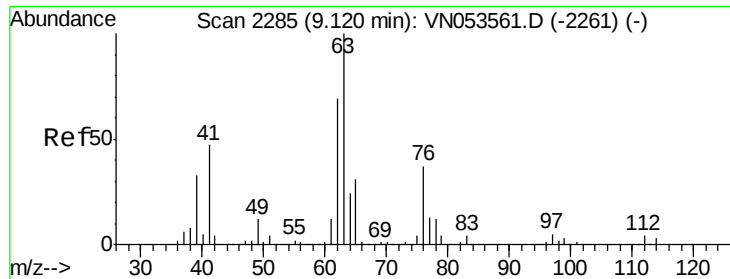
Trichloroethene
 Concen: 47.184 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion:130 Resp: 441838
 Ion Ratio Lower Upper
 130 100
 95 94.8 0.0 191.4



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN0





#45

1,2-Dichloropropane

Concen: 49.944 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

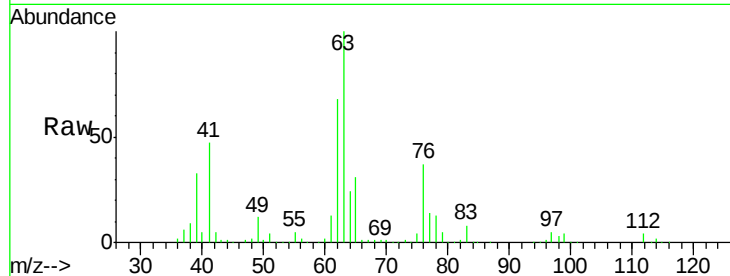
ClientSampled :

Tot Ion: 63 Resp: 420169

Ion Ratio Lower Upper

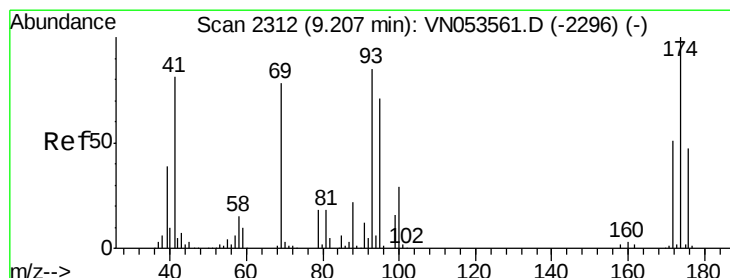
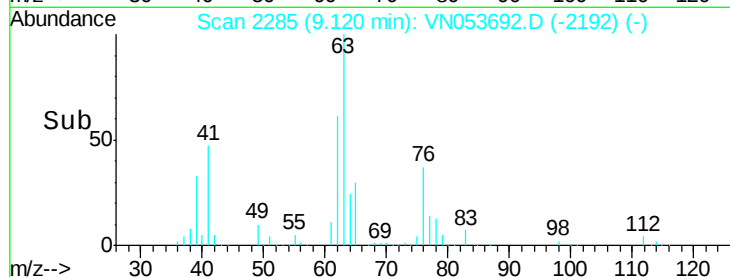
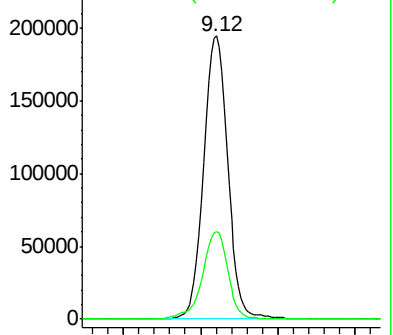
63 100

65 31.0 25.0 37.4



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 48.594 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

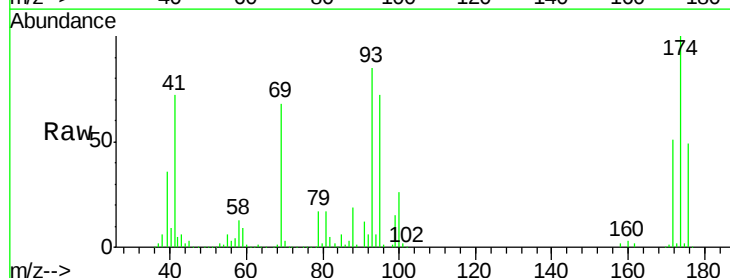
Tgt Ion: 93 Resp: 246440

Ion Ratio Lower Upper

93 100

95 83.6 67.3 100.9

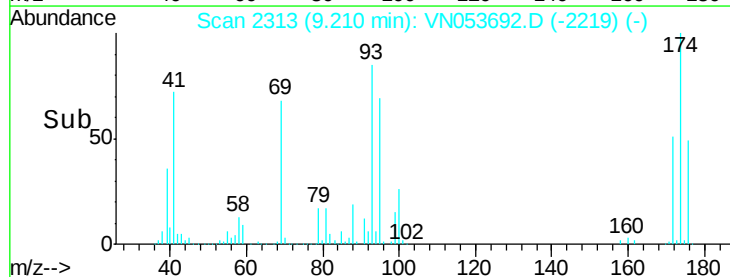
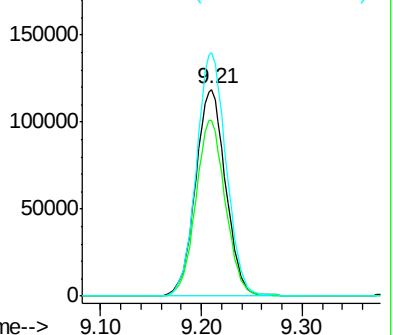
174 116.7 91.0 136.4



Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 48.631 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

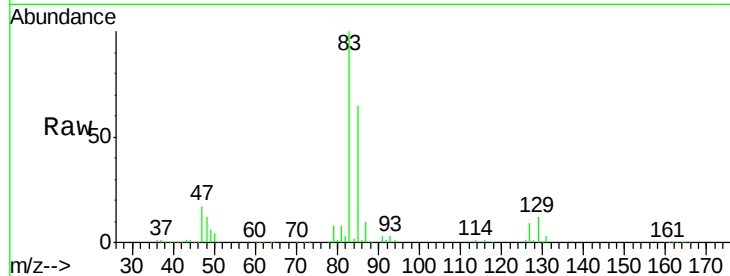
Tot Ion: 83 Resp: 512787

Ion Ratio Lower Upper

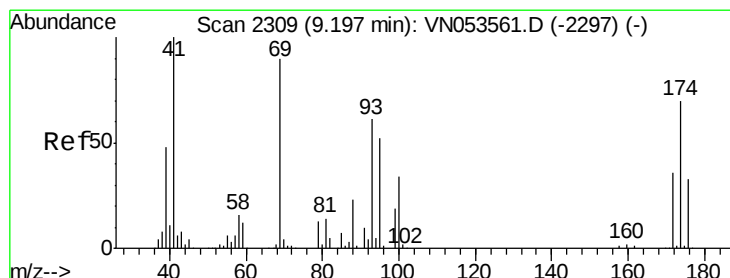
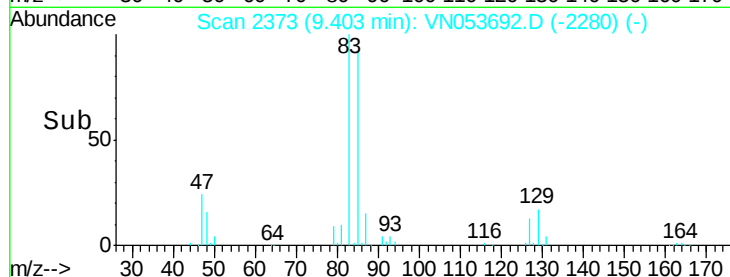
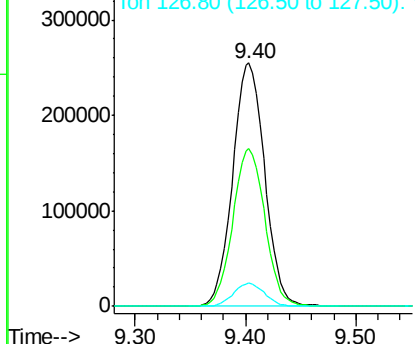
83 100

85 65.0 51.0 76.6

127 9.4 7.0 10.6



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 48.530 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

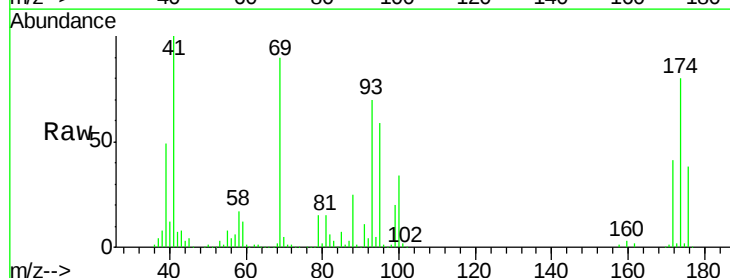
Tgt Ion: 41 Resp: 266504

Ion Ratio Lower Upper

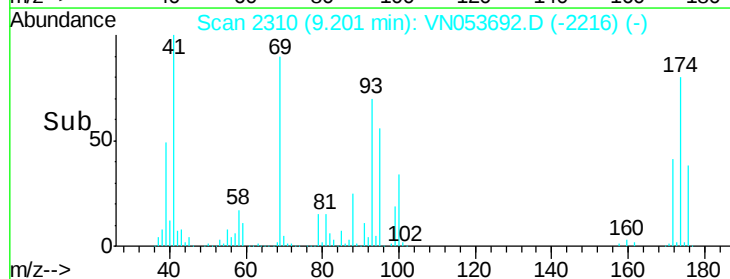
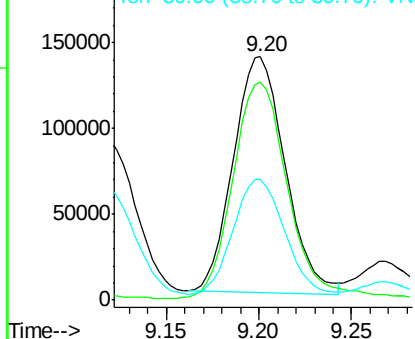
41 100

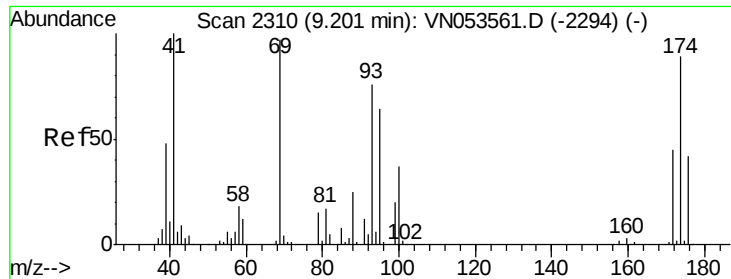
69 100.8 73.8 110.6

39 53.4 40.0 60.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

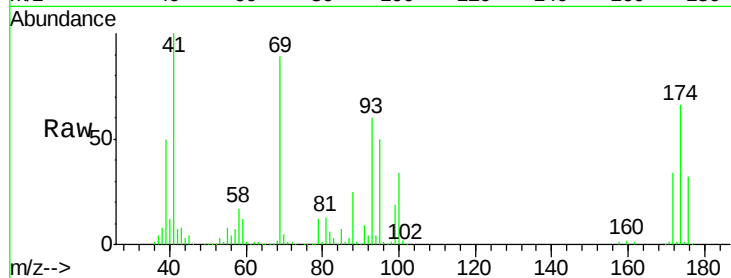




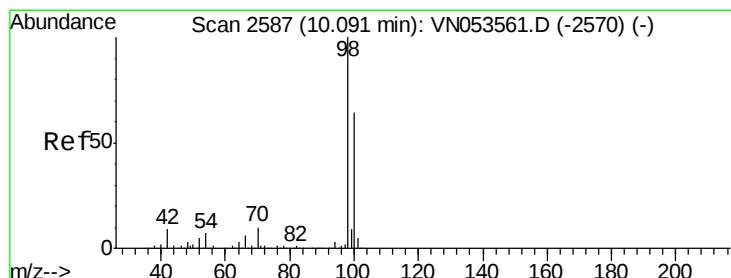
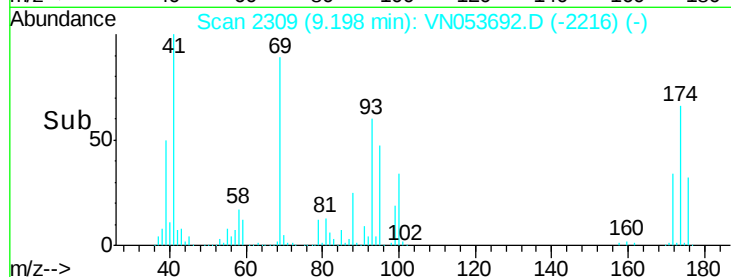
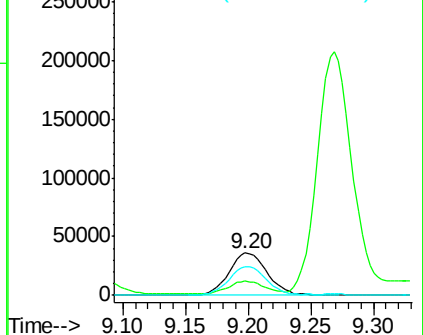
#49
1,4-Dioxane
Concen: 978.467 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 77789
Ion Ratio Lower Upper
88 100
43 29.2 27.8 41.6
58 65.9 56.5 84.7

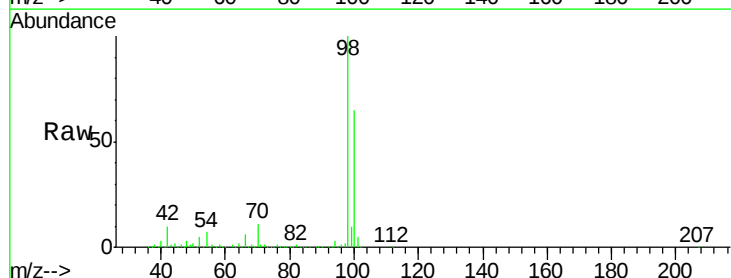


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

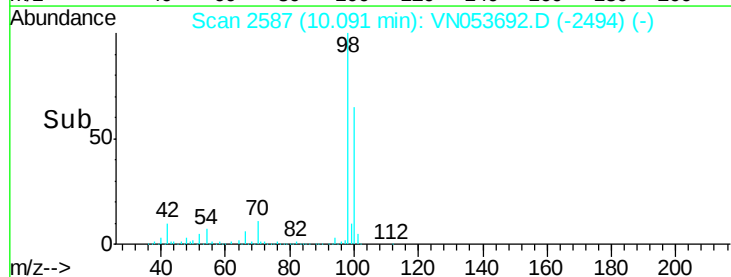
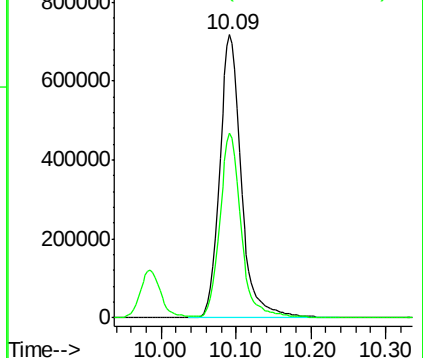


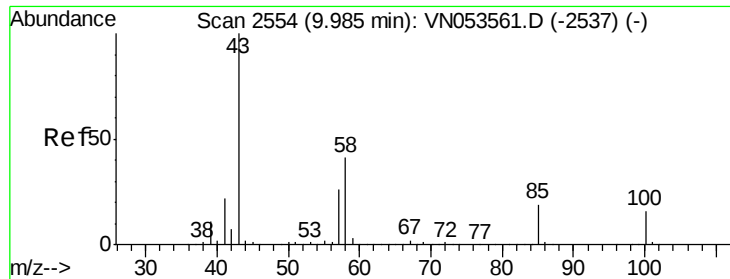
#50
Toluene-d8
Concen: 978.467 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 98 Resp: 1431151
Ion Ratio Lower Upper
98 100
100 64.8 51.4 77.0



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: 265.080 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

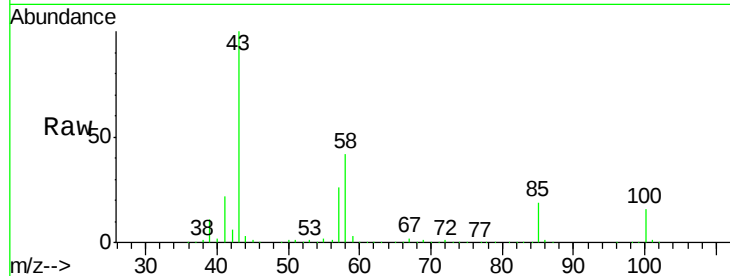
ClientSampled :

Tot Ion: 43 Resp: 1498568

Ion Ratio Lower Upper

43 100

58 41.3 32.8 49.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

800000

600000

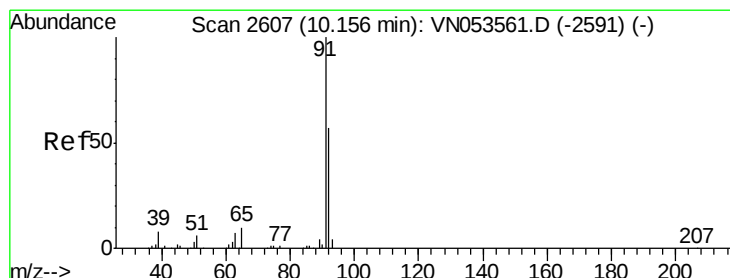
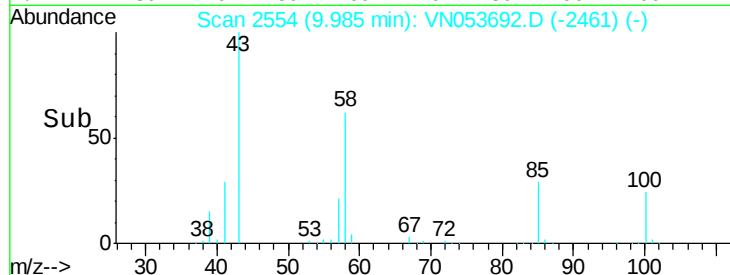
400000

200000

0

Time-->

9.90 10.00 10.10



#52

Toluene

Concen: 49.048 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053692.D

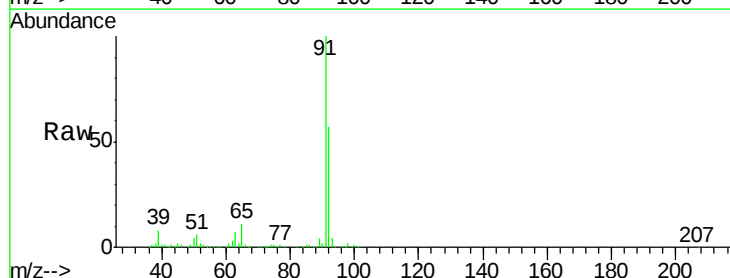
Acq: 8 Feb 2019 19:59

Tgt Ion: 92 Resp: 957466

Ion Ratio Lower Upper

92 100

91 173.9 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

1000000

800000

600000

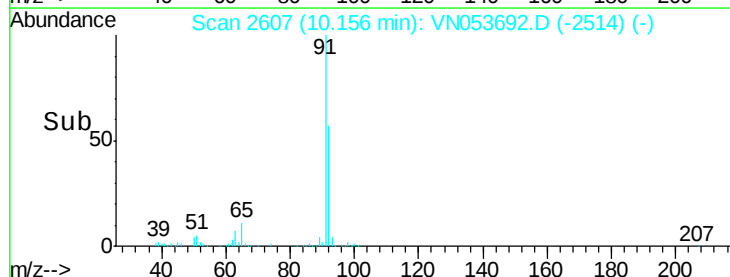
400000

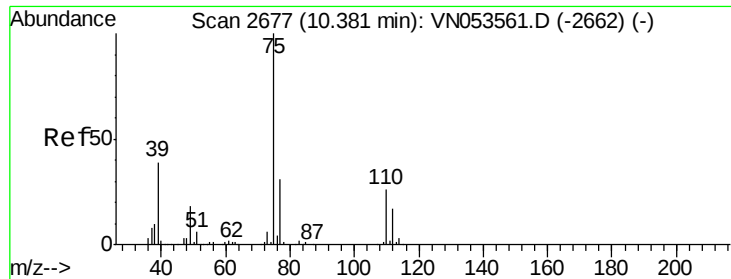
200000

0

Time-->

10.10 10.20 10.30





#53

t-1,3-Dichloropropene

Concen: 49.643 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

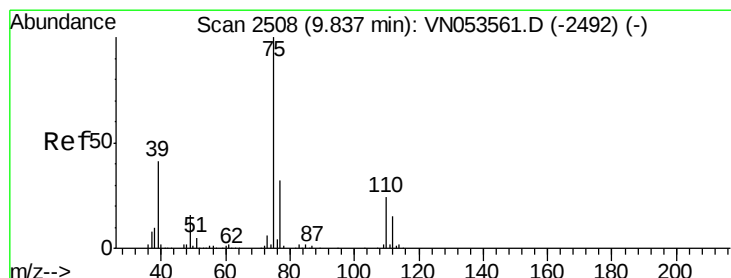
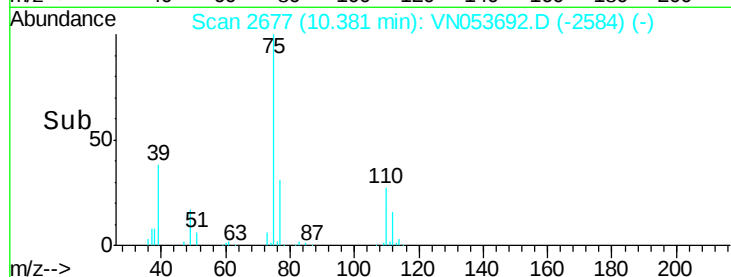
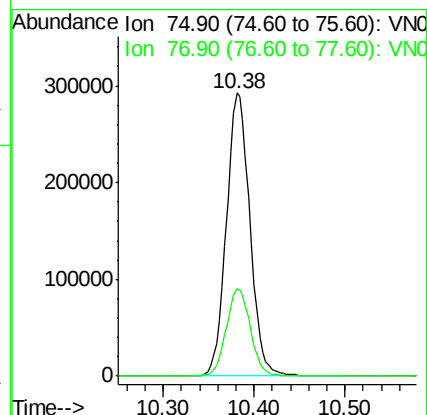
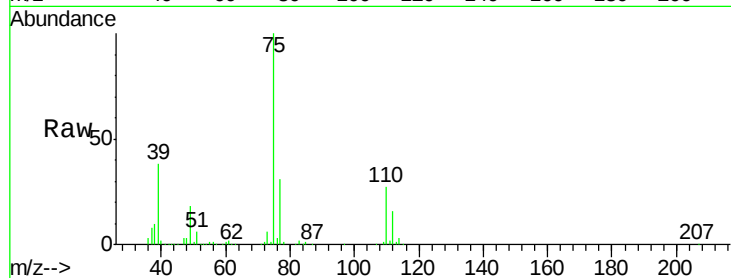
ClientSampleId :

Tot Ion: 75 Resp: 524160

Ion Ratio Lower Upper

75 100

77 30.8 25.5 38.3



#54

cis-1,3-Dichloropropene

Concen: 49.687 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

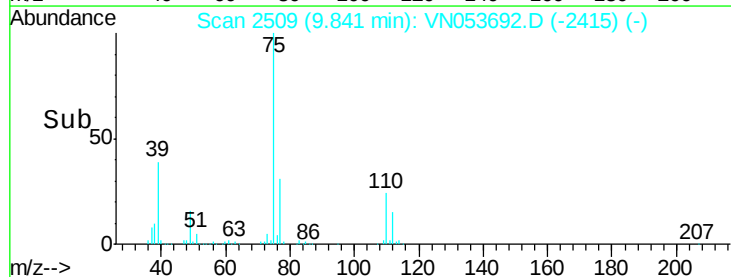
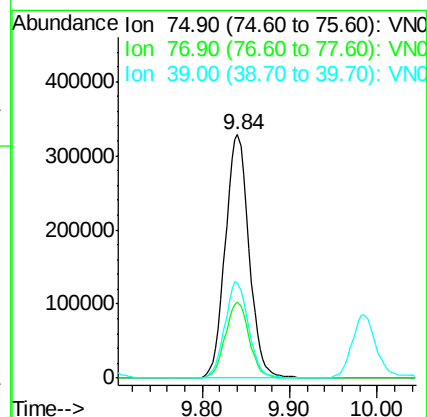
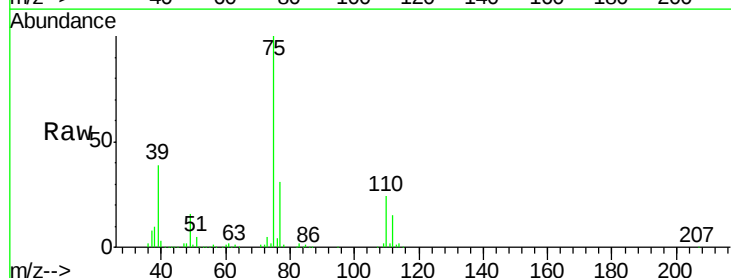
Tgt Ion: 75 Resp: 621669

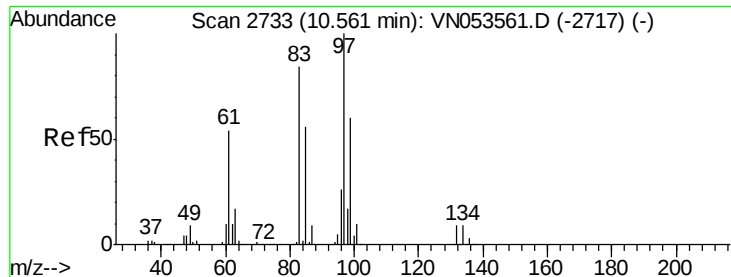
Ion Ratio Lower Upper

75 100

77 31.1 25.8 38.6

39 39.1 33.4 50.0

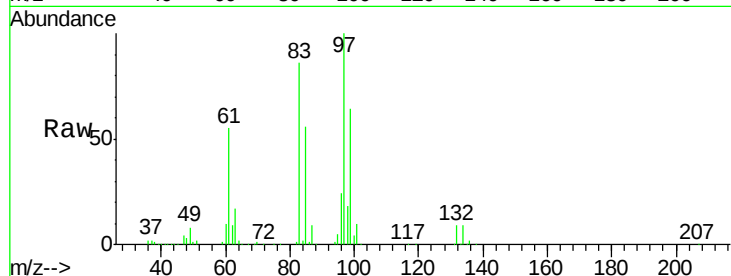




#55
 1,1,2-Trichloroethane
 Concen: 50.614 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	97	Resp	356029
Ion	Ratio	Lower	Upper
97	100		
83	85.9	70.1	105.1
85	55.6	45.4	68.0
99	63.8	49.8	74.8



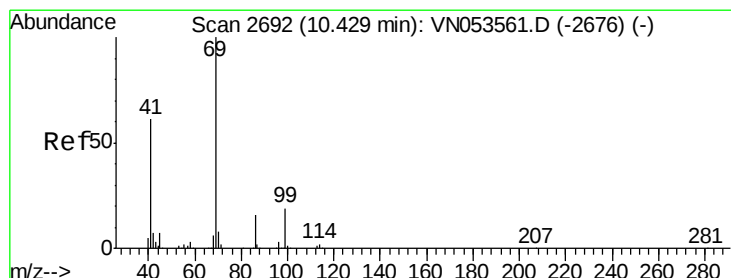
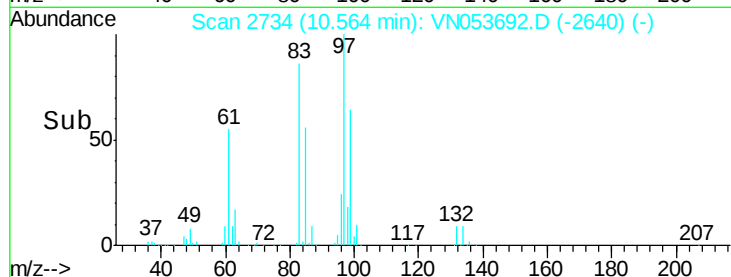
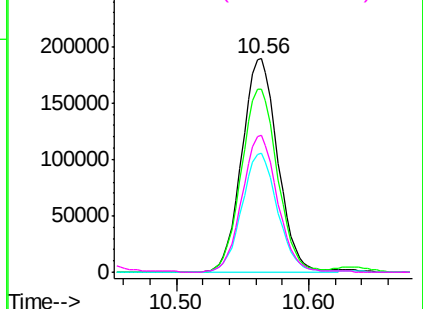
Abundance

Ion 96.90 (96.60 to 97.60): VNC

Ion 82.90 (82.60 to 83.60): VNC

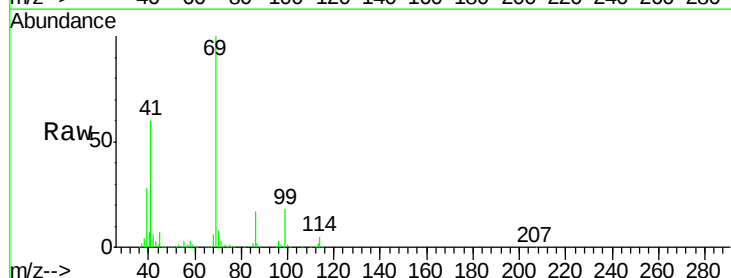
Ion 84.90 (84.60 to 85.60): VNC

Ion 98.90 (98.60 to 99.60): VNC



#56
 Ethyl methacrylate
 Concen: 52.847 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion	69	Resp	439766
Ion	Ratio	Lower	Upper
69	100		
41	60.5	49.4	74.0
39	28.4	23.3	34.9

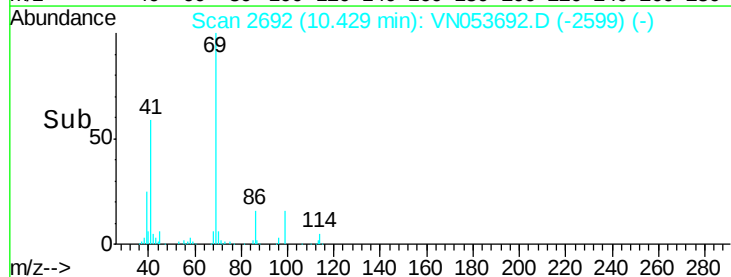
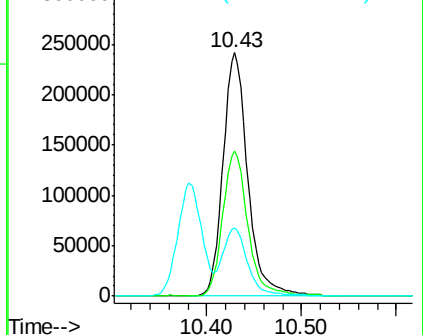


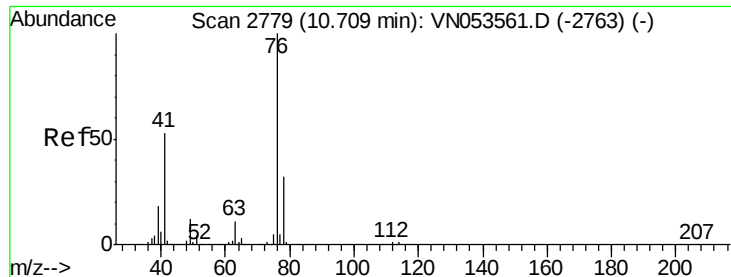
Abundance

Ion 69.00 (68.70 to 69.70): VNC

Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

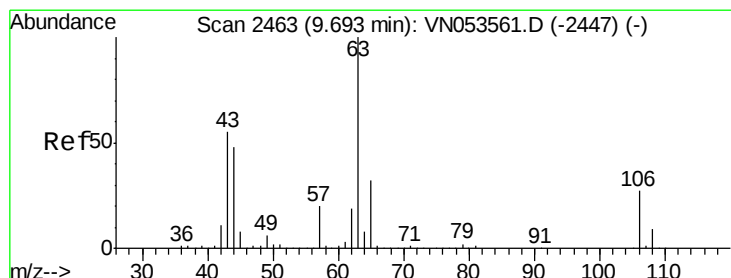
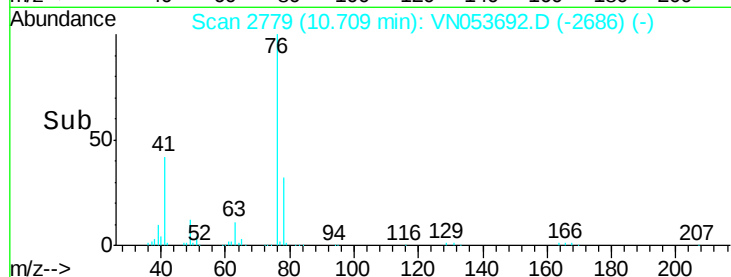
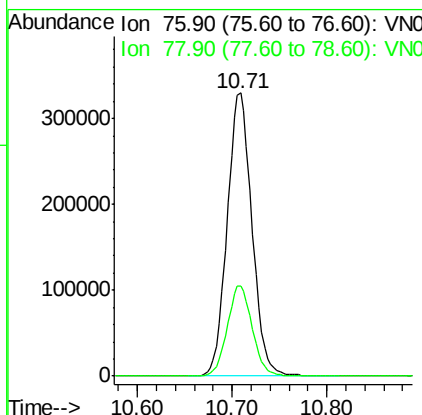
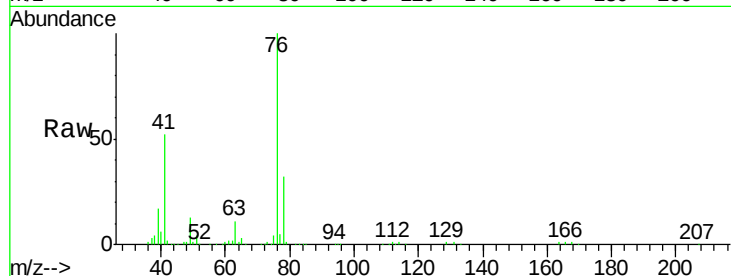




#57
 1,3-Dichloropropane
 Concen: 49.896 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

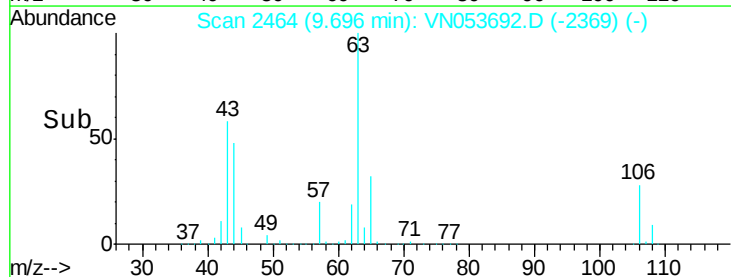
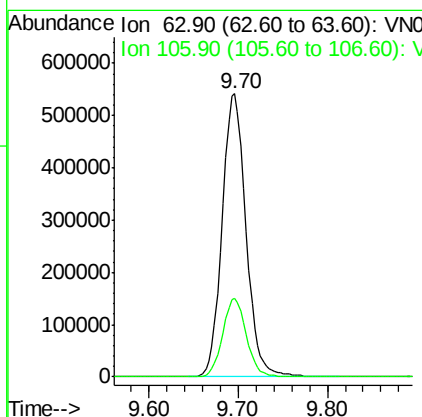
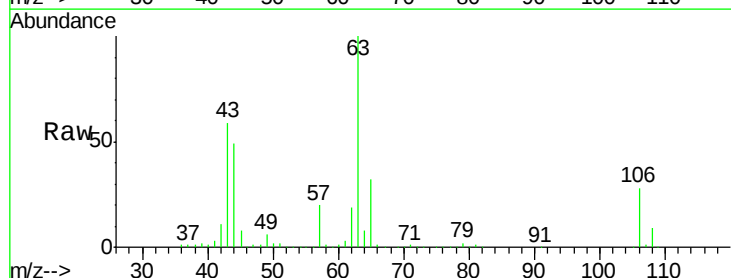
Instrument :
 MSVOA_N
 ClientSampled :

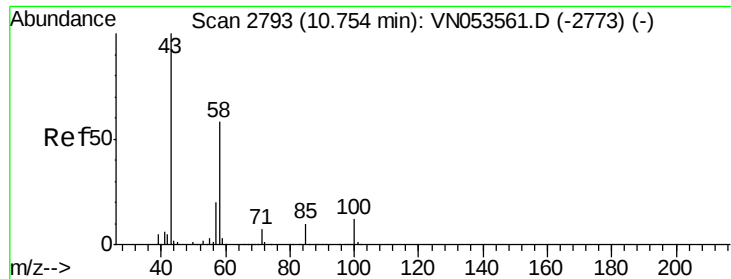
Tot Ion: 76 Resp: 599841
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.6 38.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 196.465 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion: 63 Resp: 1004769
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.5 32.3

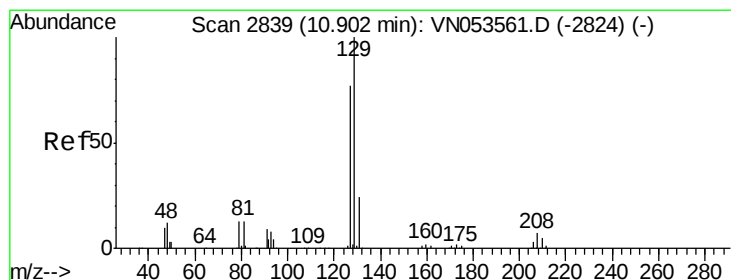
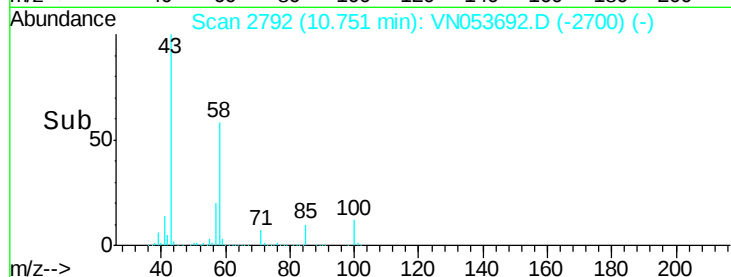
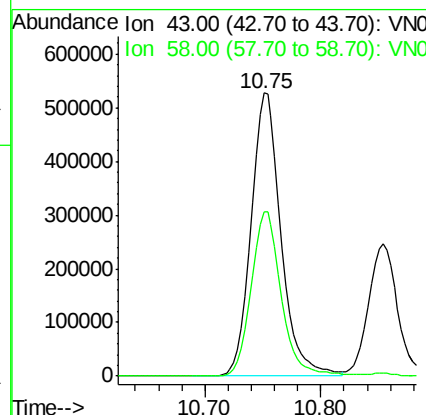
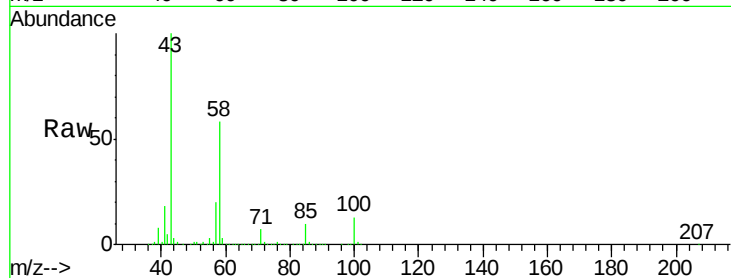




#59
2-Hexanone
Concen: 246.815 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

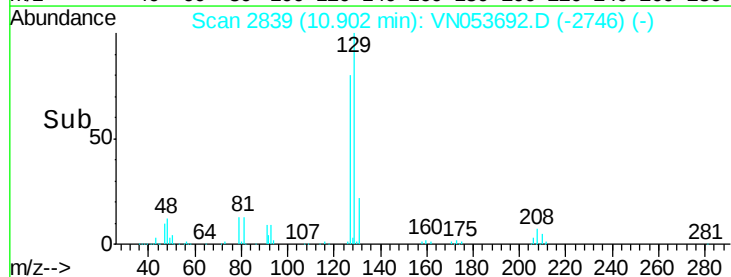
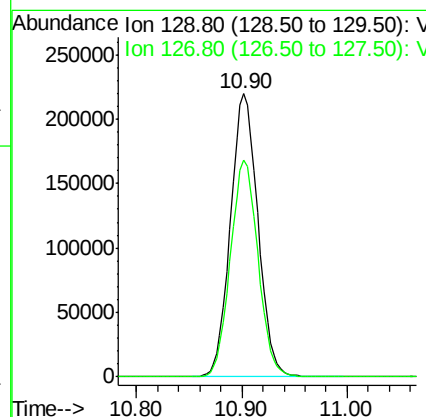
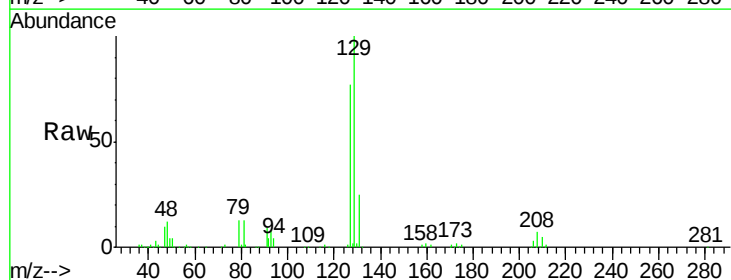
Instrument :
MSVOA_N
ClientSampled :

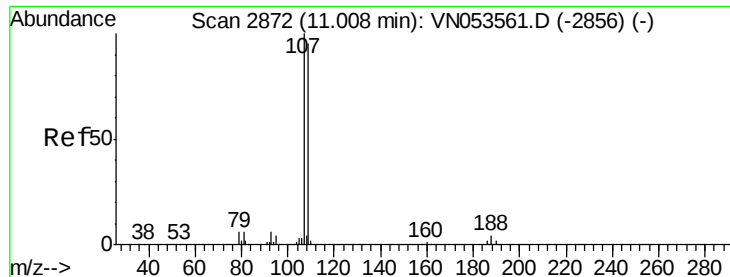
Tot Ion: 43 Resp: 947238
Ion Ratio Lower Upper
43 100
58 58.5 28.6 85.8



#60
Dibromochloromethane
Concen: 49.893 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 129 Resp: 395764
Ion Ratio Lower Upper
129 100
127 77.0 38.6 115.8





#61

1,2-Dibromoethane

Concen: 48.597 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

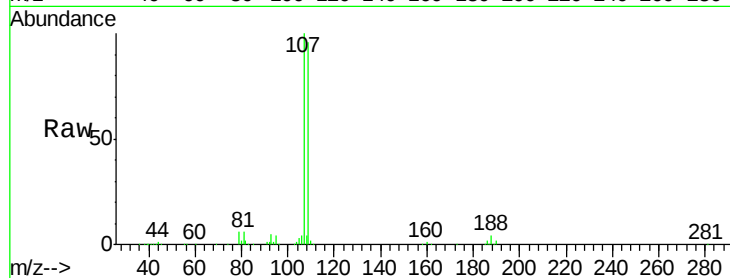
ClientSampleId :

Tot Ion:107 Resp: 338345

Ion Ratio Lower Upper

107 100

109 95.7 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

200000

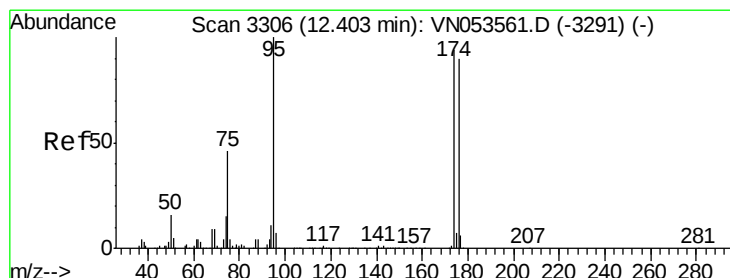
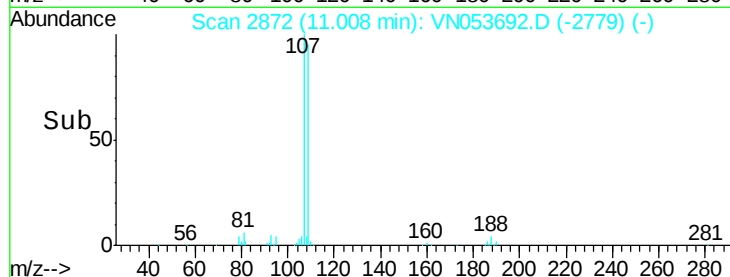
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.597 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

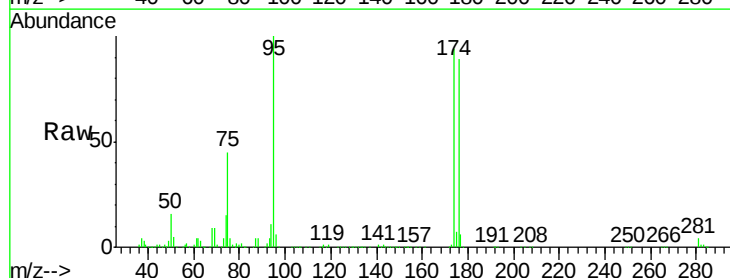
Tgt Ion: 95 Resp: 486892

Ion Ratio Lower Upper

95 100

174 92.3 0.0 183.2

176 89.2 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

400000

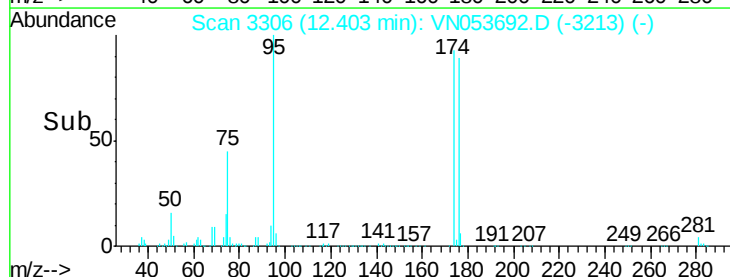
300000

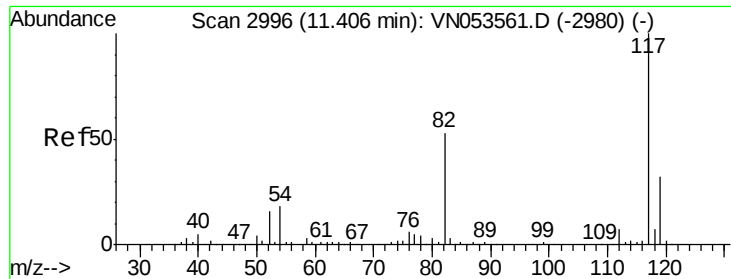
200000

100000

0

Time-->

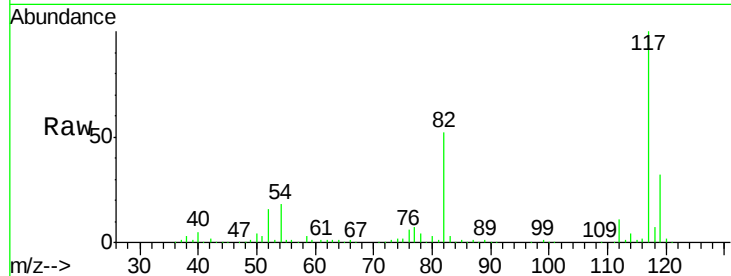




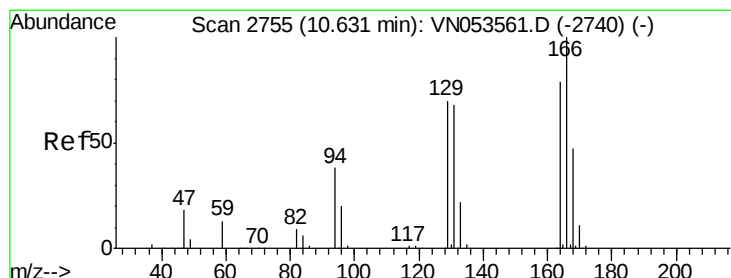
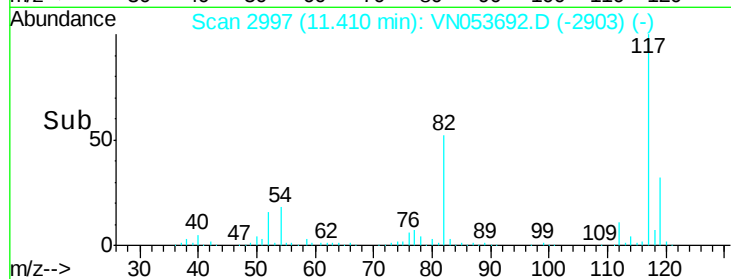
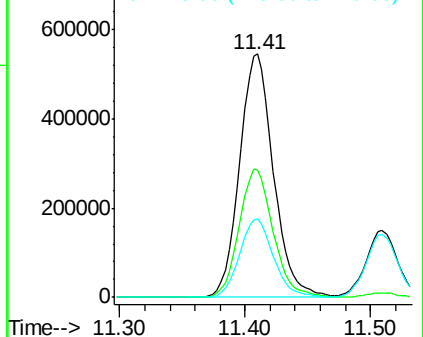
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1026072
Ion Ratio Lower Upper
117 100
82 52.2 42.9 64.3
119 32.1 26.0 39.0



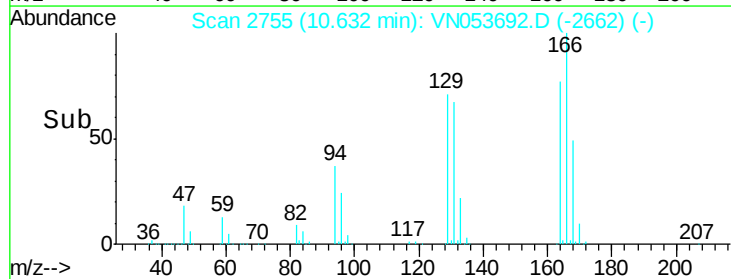
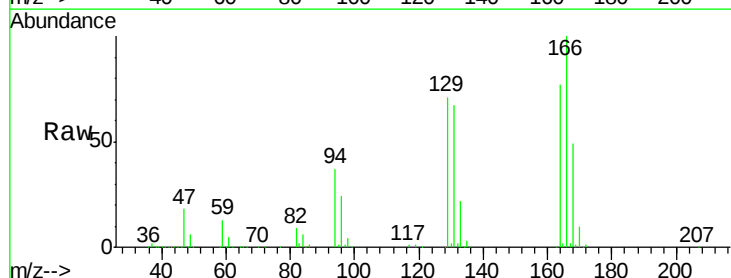
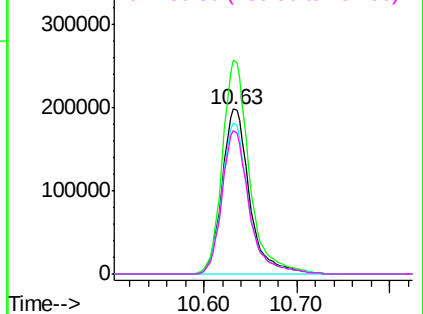
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

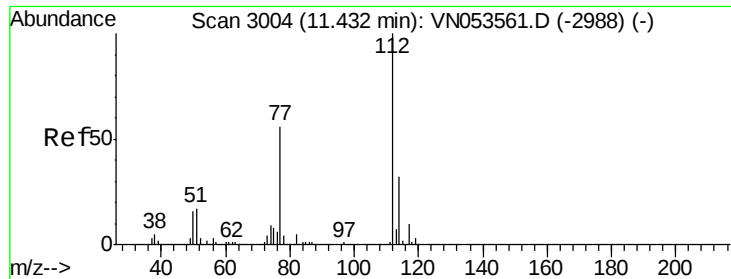


#64
Tetrachloroethene
Concen: 46.174 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion:164 Resp: 406128
Ion Ratio Lower Upper
164 100
166 129.7 102.2 153.4
129 92.0 72.6 109.0
131 87.2 69.5 104.3

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: 48.109 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

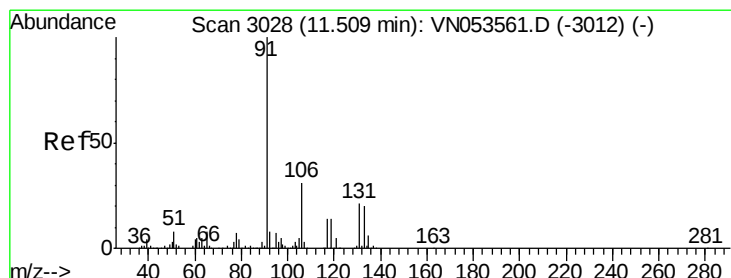
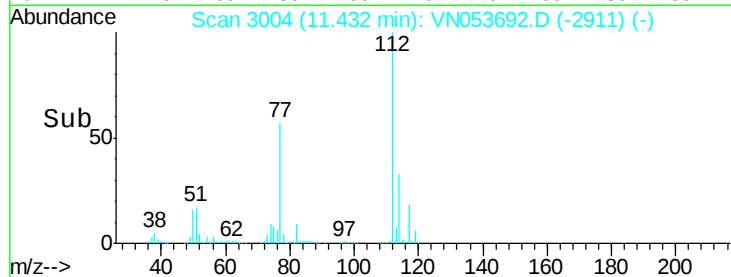
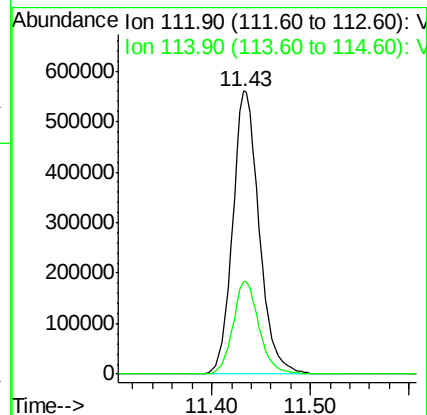
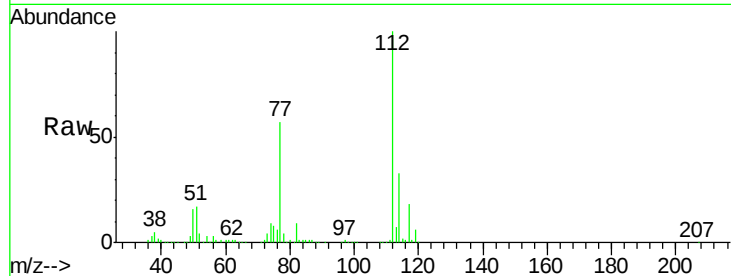
ClientSampleId :

Tot Ion:112 Resp: 1048530

Ion Ratio Lower Upper

112 100

114 32.7 25.3 37.9



#66

1,1,1,2-Tetrachloroethane

Concen: 50.463 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

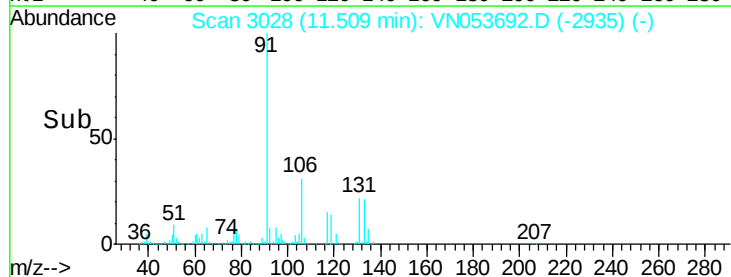
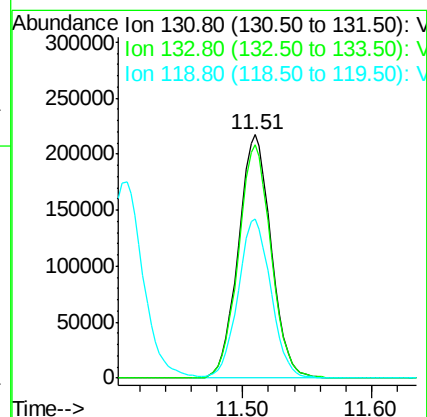
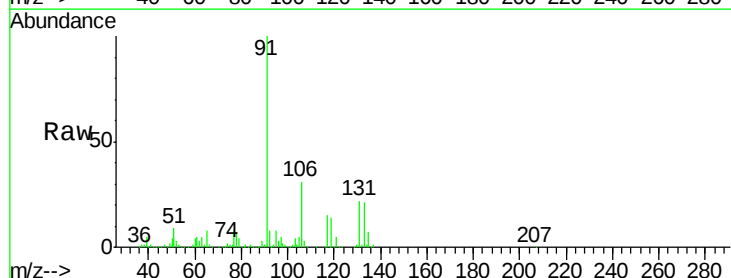
Tgt Ion:131 Resp: 384103

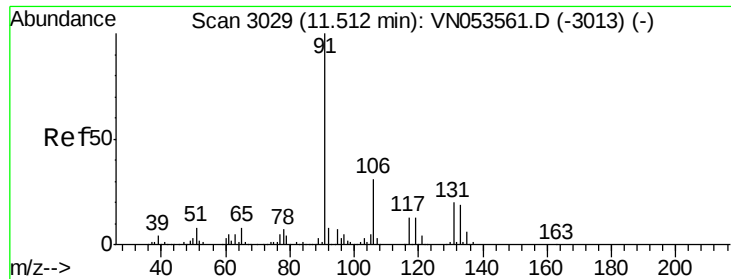
Ion Ratio Lower Upper

131 100

133 95.5 48.0 144.0

119 65.4 33.5 100.5

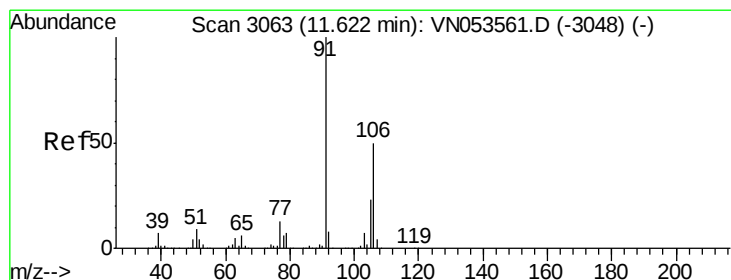
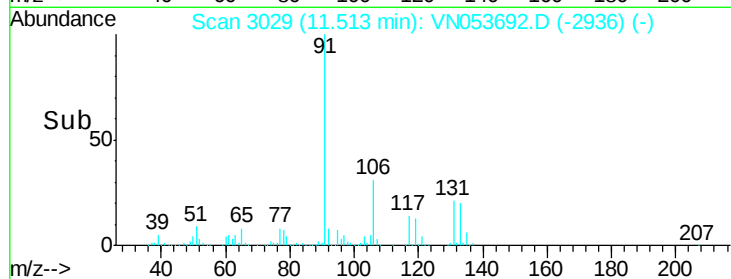
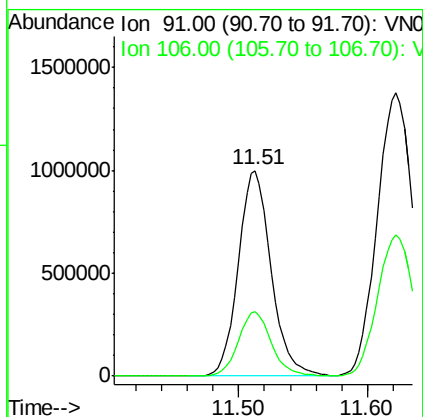
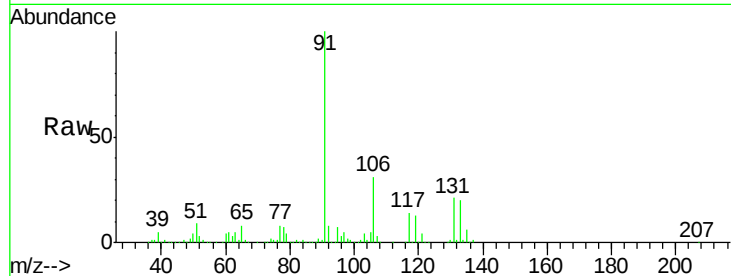




#67
Ethyl Benzene
Concen: 49.432 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

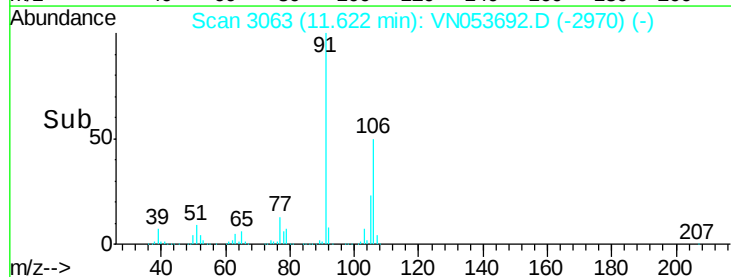
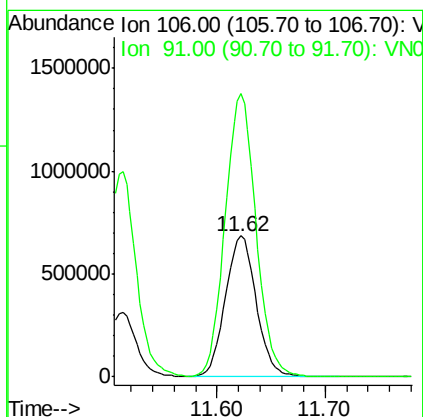
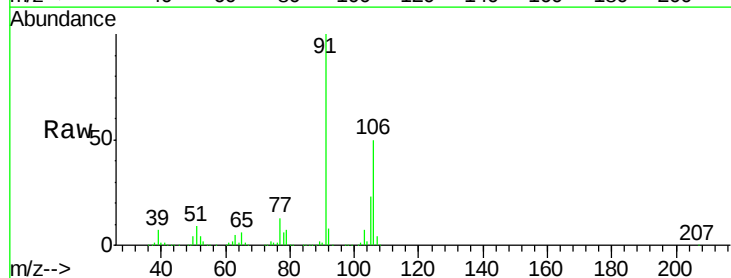
Instrument :
MSVOA_N
ClientSampled :

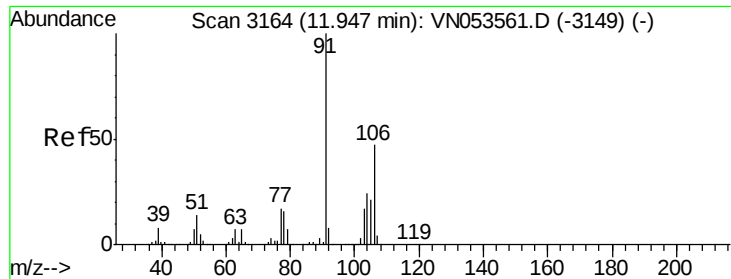
Tot Ion: 91 Resp: 1769789
Ion Ratio Lower Upper
91 100
106 31.3 25.0 37.6



#68
m/p-Xylenes
Concen: 99.988 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 106 Resp: 1366273
Ion Ratio Lower Upper
106 100
91 200.4 161.4 242.2

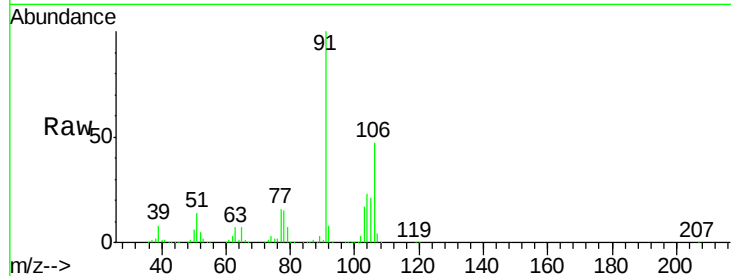




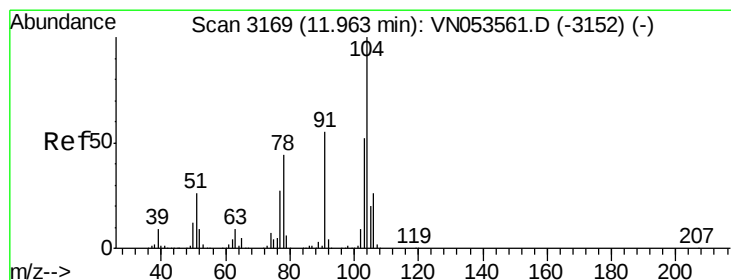
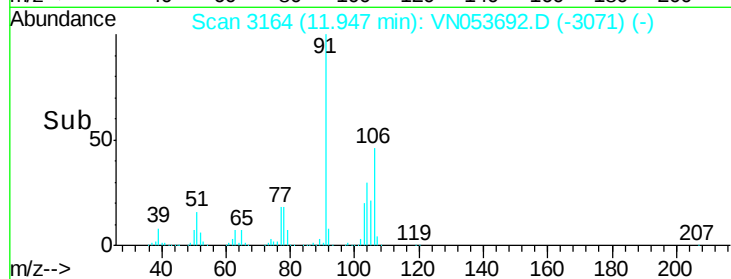
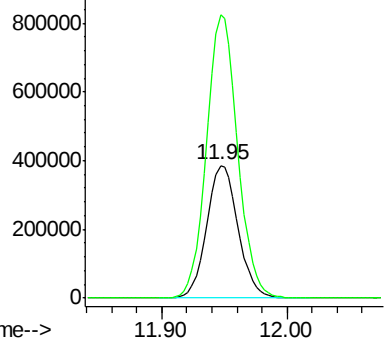
#69
o-Xylene
Concen: 50.633 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 668406
Ion Ratio Lower Upper
106 100
91 211.8 106.9 320.8

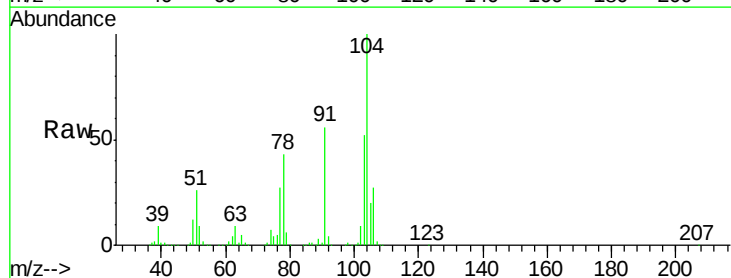


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

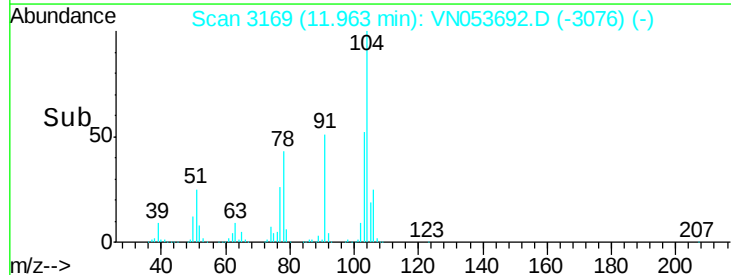
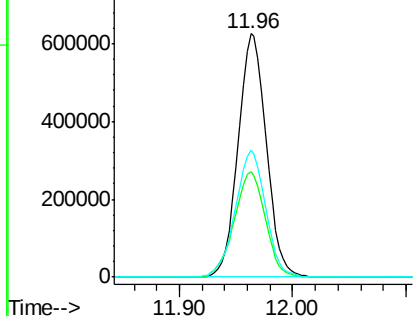


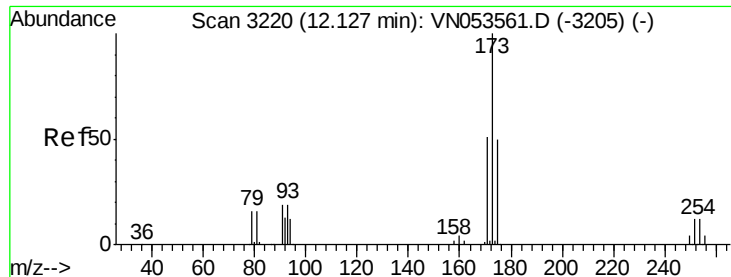
#70
Styrene
Concen: 50.904 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion:104 Resp: 1089174
Ion Ratio Lower Upper
104 100
78 47.6 38.2 57.2
103 55.8 44.4 66.6



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

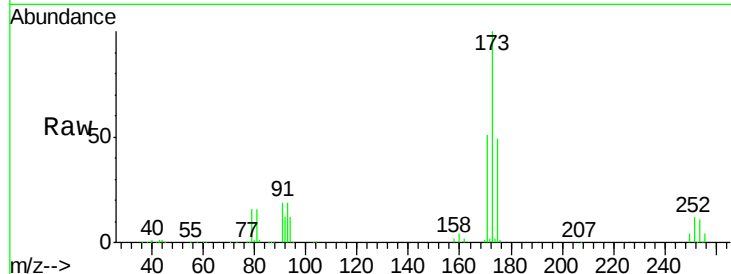




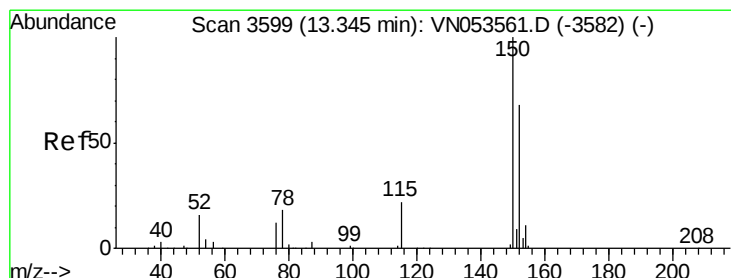
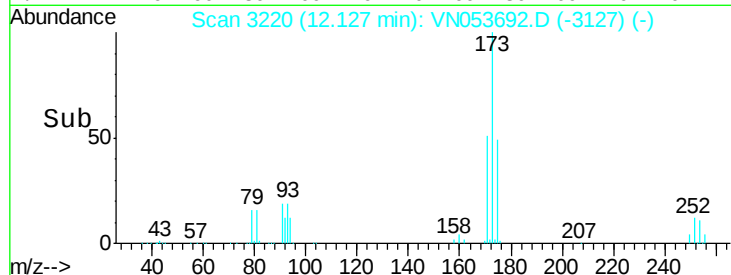
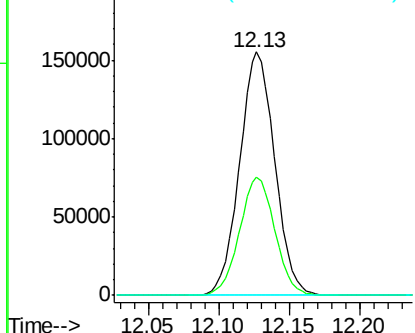
#71
Bromoform
Concen: 51.938 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 271032
Ion Ratio Lower Upper
173 100
175 48.7 24.6 74.0
254 0.1 0.2 0.2#

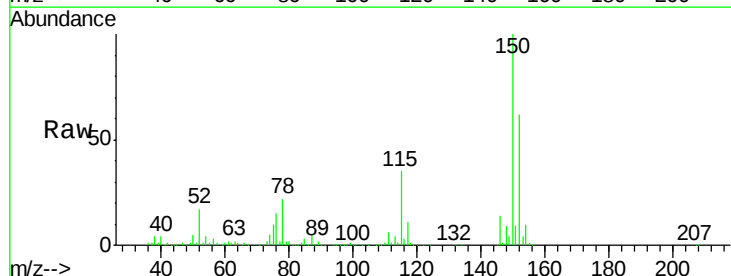


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

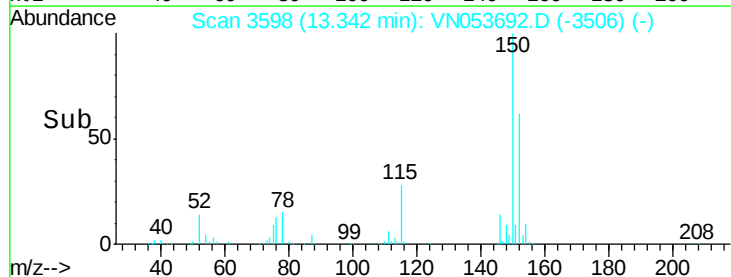
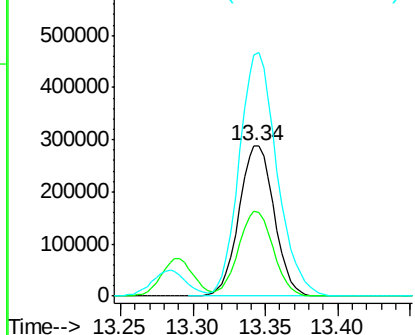


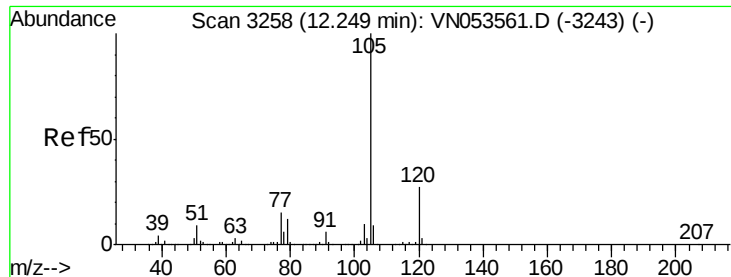
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion:152 Resp: 484835
Ion Ratio Lower Upper
152 100
115 55.8 27.8 83.4
150 174.2 0.0 349.0



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





#73

Isopropylbenzene

Concen: 50.975 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

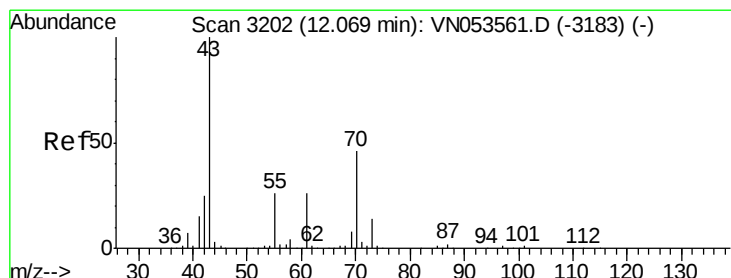
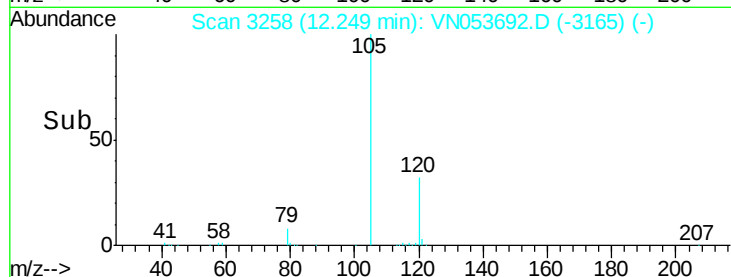
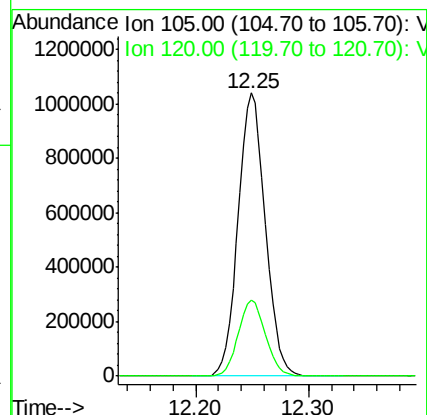
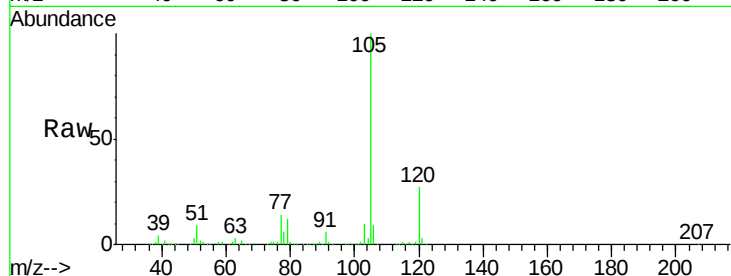
ClientSampled :

Tot Ion:105 Resp: 1737383

Ion Ratio Lower Upper

105 100

120 27.0 13.6 40.7



#74

N-ethyl acetate

Concen: 53.831 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Tgt Ion: 43 Resp: 441197

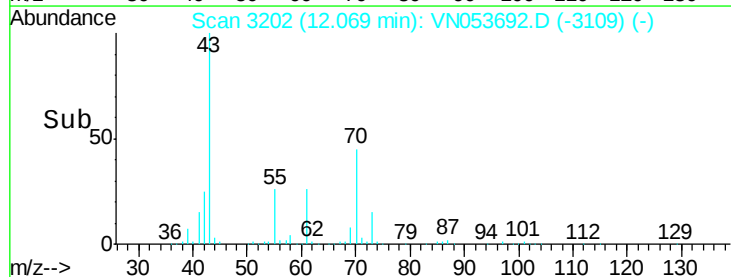
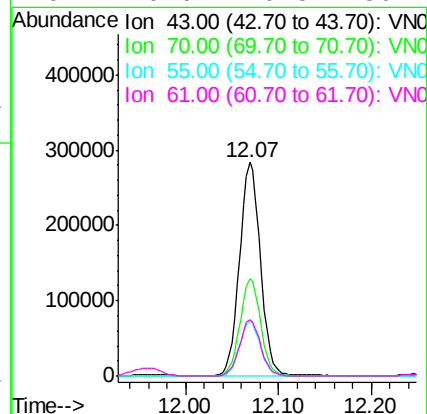
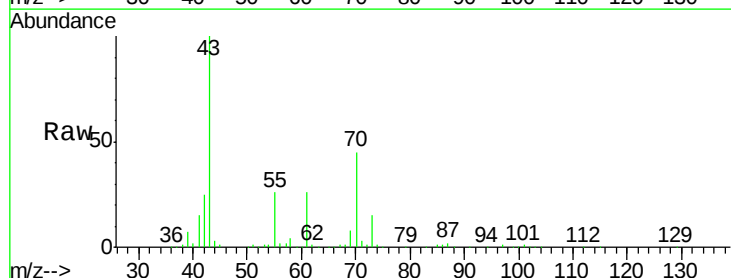
Ion Ratio Lower Upper

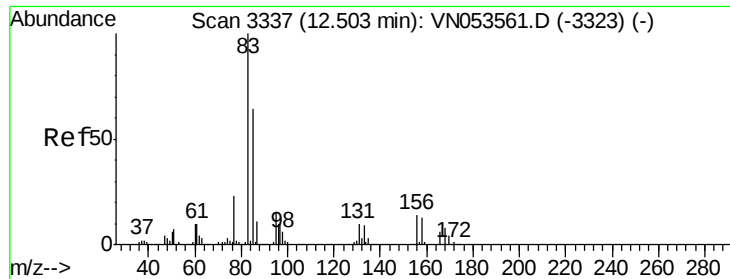
43 100

70 45.4 35.4 53.2

55 25.6 20.9 31.3

61 26.6 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 50.392 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampled :

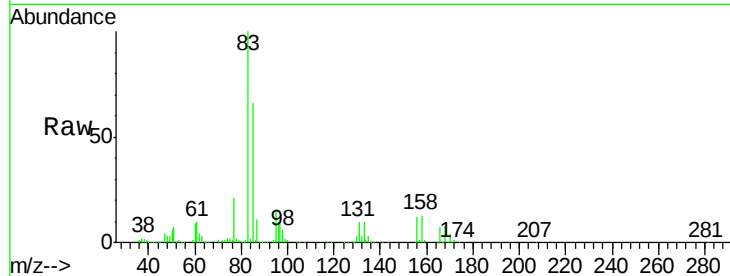
Tot Ion: 83 Resp: 411049

Ion Ratio Lower Upper

83 100

131 10.5 5.3 15.8

85 64.9 32.1 96.3



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0

12.50

250000

200000

150000

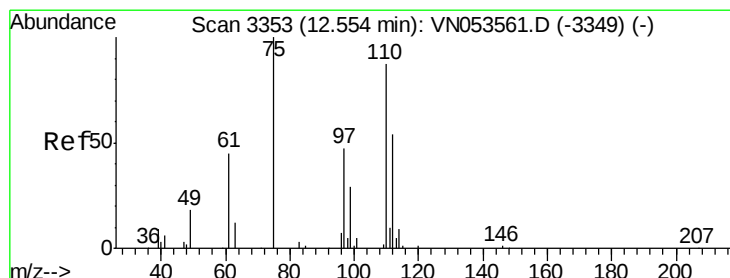
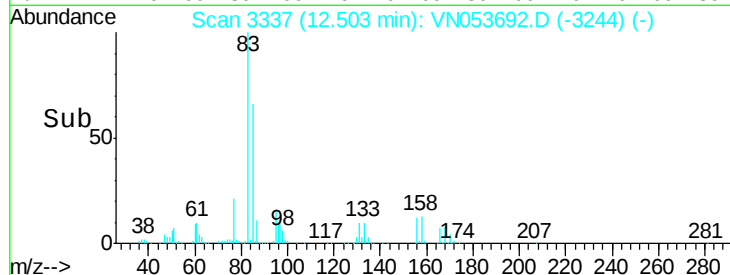
100000

50000

0

12.45 12.50 12.55

Time-->



#76

1,2,3-Trichloropropane

Concen: 80.818 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN053692.D

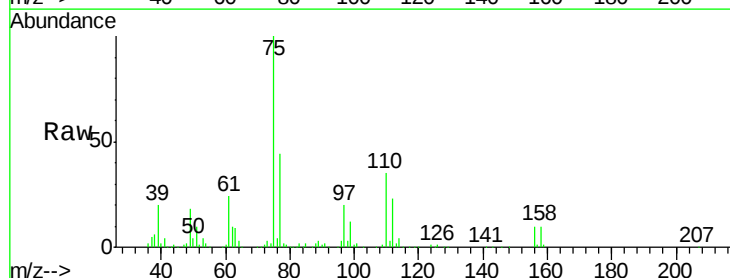
Acq: 8 Feb 2019 19:59

Tgt Ion: 75 Resp: 503287

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

400000

300000

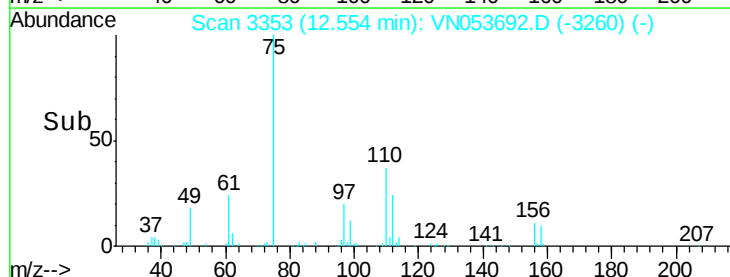
200000

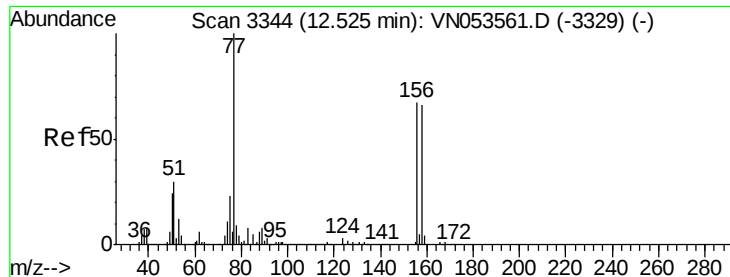
100000

0

12.50 12.55

Time-->





#77

Bromobenzene

Concen: 49.699 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

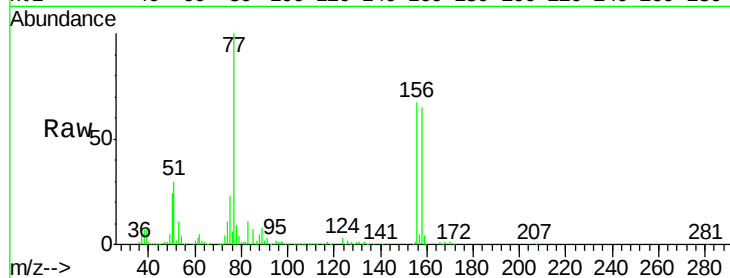
Tot Ion:156 Resp: 456519

Ion Ratio Lower Upper

156 100

77 174.5 87.9 263.8

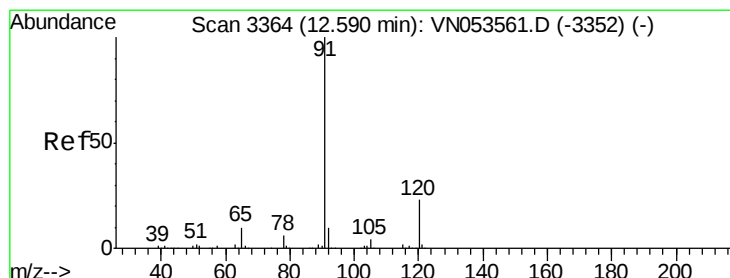
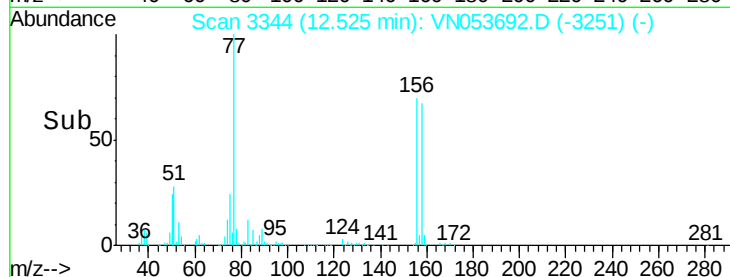
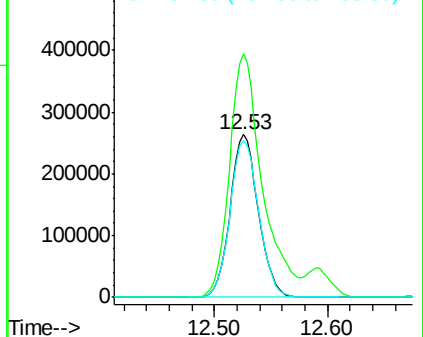
158 98.1 48.8 146.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 50.688 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN053692.D

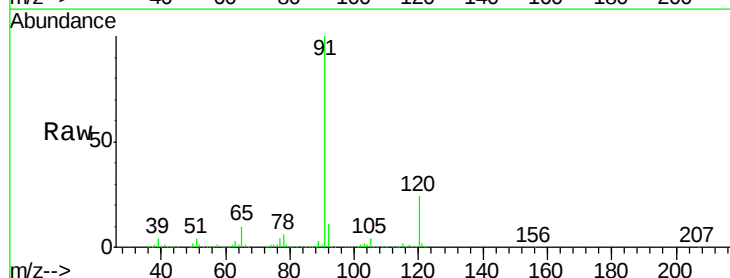
Acq: 8 Feb 2019 19:59

Tgt Ion: 91 Resp: 1997153

Ion Ratio Lower Upper

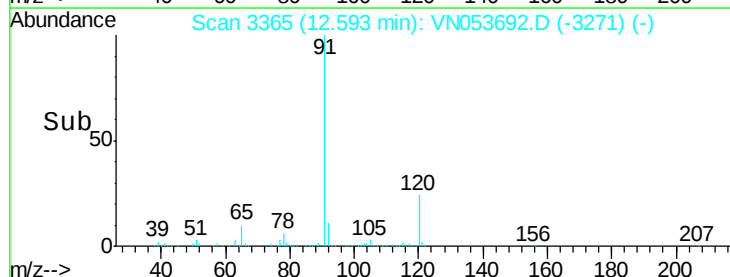
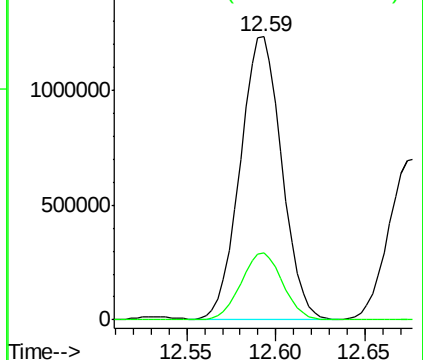
91 100

120 23.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.489 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

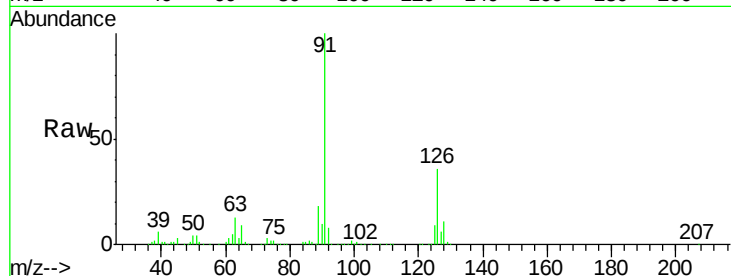
ClientSampleId :

Tot Ion: 91 Resp: 1180208

Ion Ratio Lower Upper

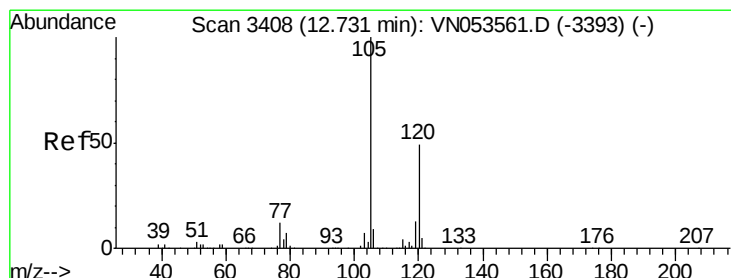
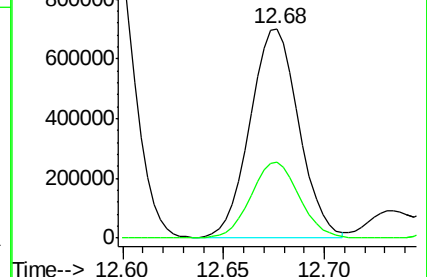
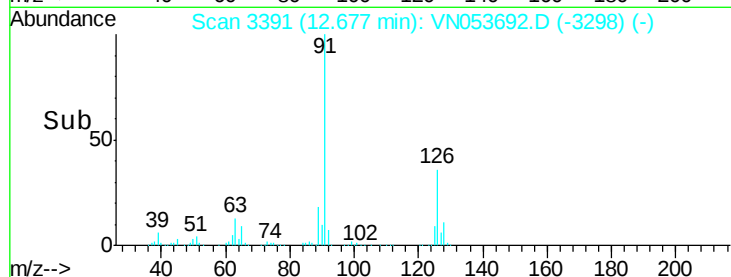
91 100

126 36.3 17.9 53.7



Abundance Ion 91.00 (90.70 to 91.70): VN053561.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN053561.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 52.269 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053692.D

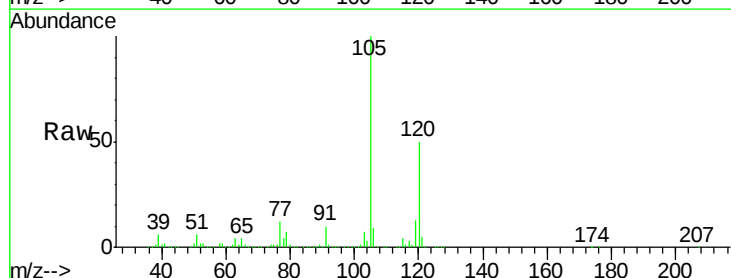
Acq: 8 Feb 2019 19:59

Tgt Ion: 105 Resp: 1477305

Ion Ratio Lower Upper

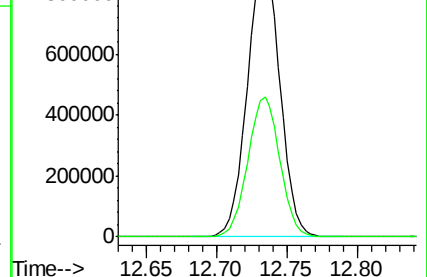
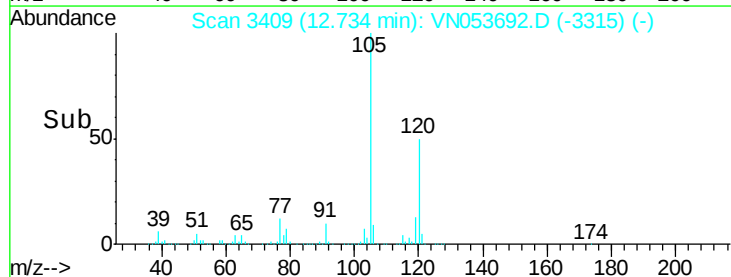
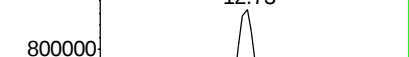
105 100

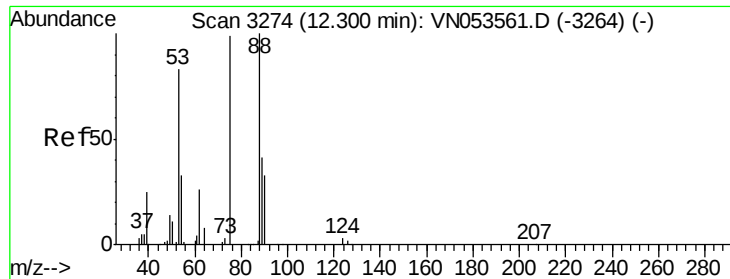
120 49.7 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053561.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 50.582 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

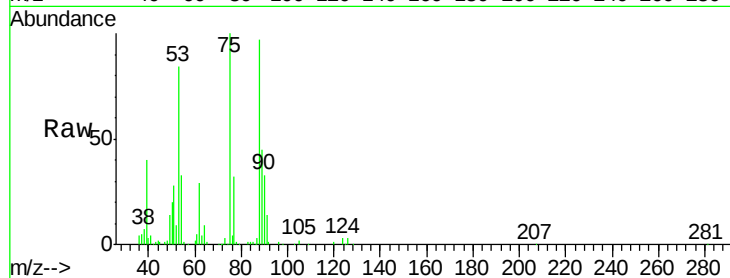
Tot Ion: 75 Resp: 112022

Ion Ratio Lower Upper

75 100

53 85.0 69.8 104.6

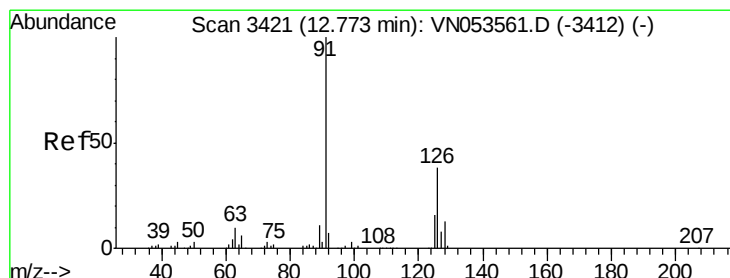
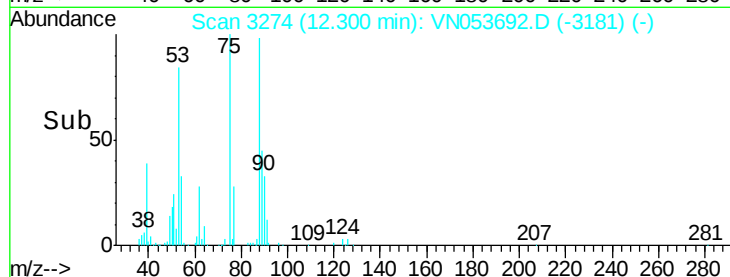
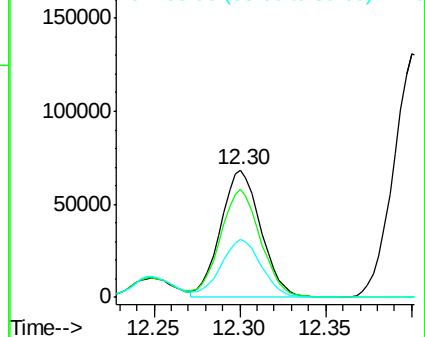
89 45.3 35.6 53.4



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



#82

4-Chlorotoluene

Concen: 50.257 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN053692.D

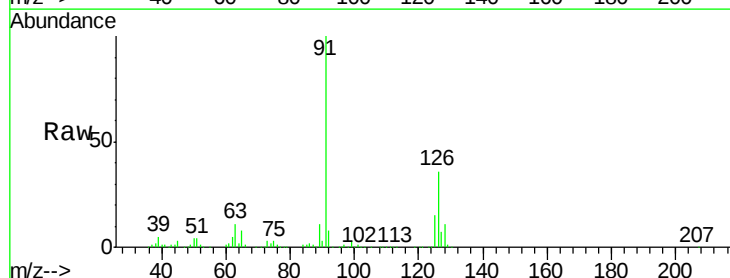
Acq: 8 Feb 2019 19:59

Tgt Ion: 91 Resp: 1205489

Ion Ratio Lower Upper

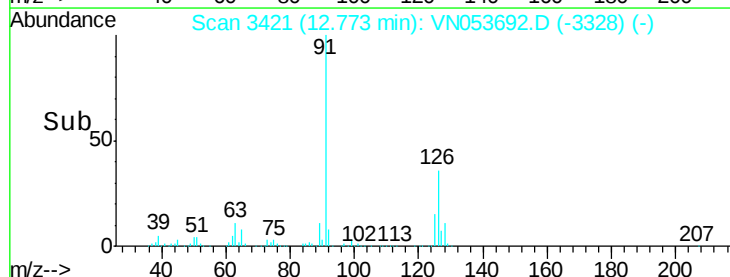
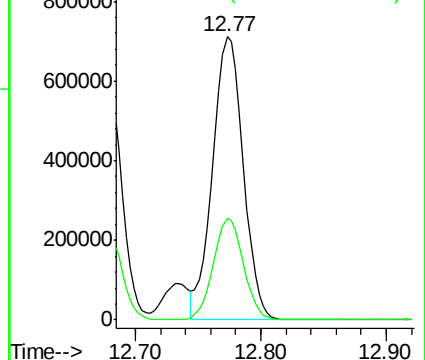
91 100

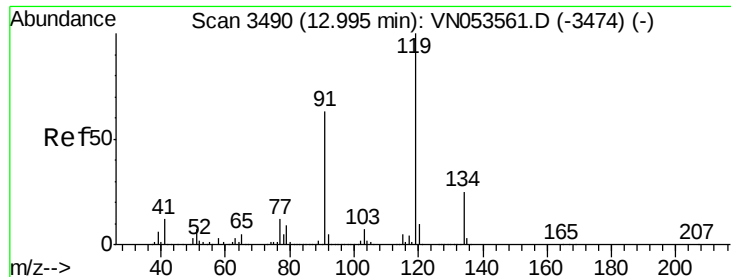
126 35.3 17.6 52.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

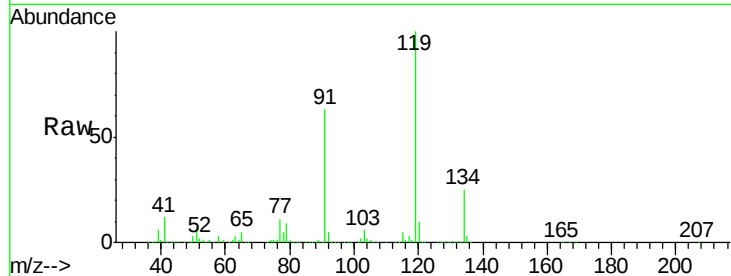




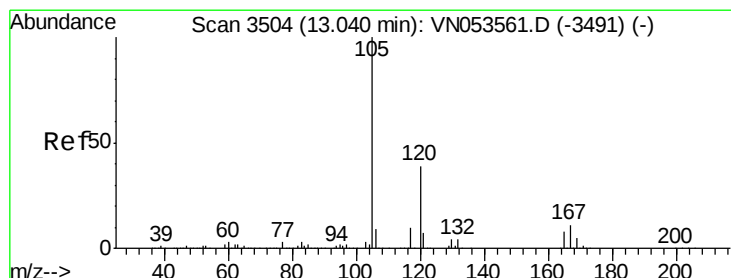
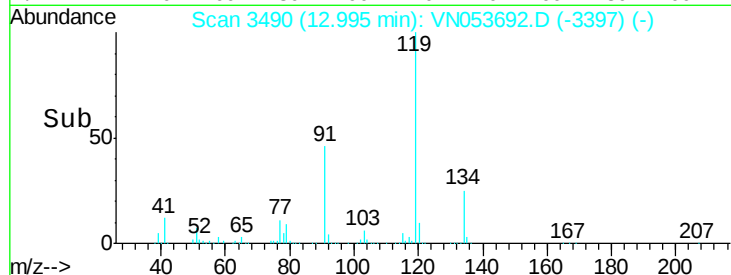
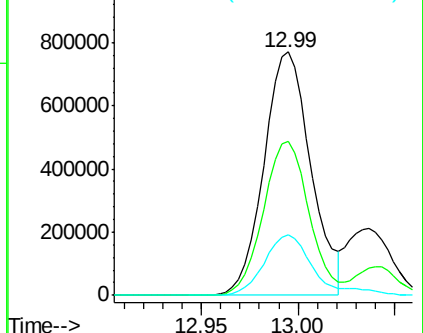
#83
 tert-Butylbenzene
 Concen: 52.192 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:119 Resp: 1303731
 Ion Ratio Lower Upper
 119 100
 91 61.9 31.3 93.8
 134 26.0 12.9 38.7

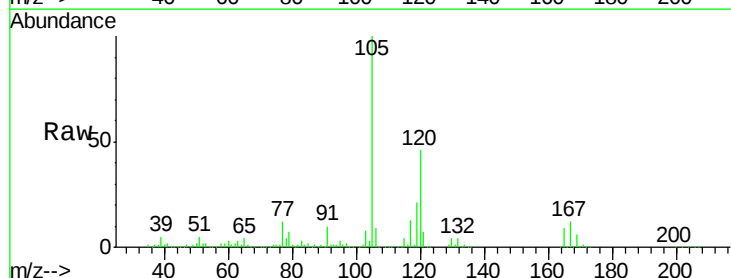


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

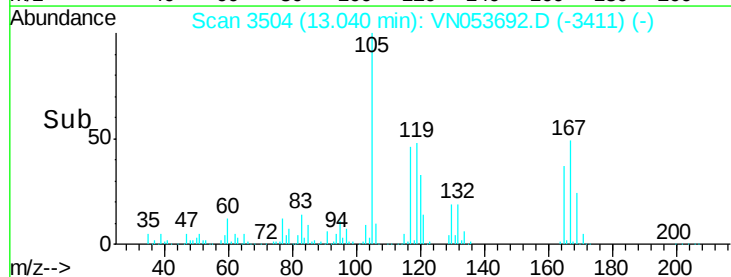
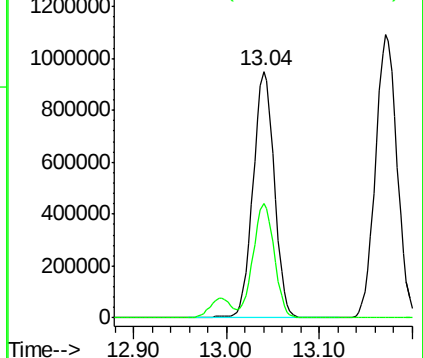


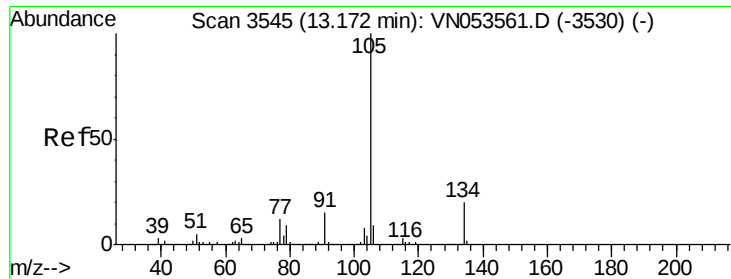
#84
 1,2,4-Trimethylbenzene
 Concen: 52.290 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN053692.D
 Acq: 8 Feb 2019 19:59

Tgt Ion:105 Resp: 1505688
 Ion Ratio Lower Upper
 105 100
 120 46.5 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 51.794 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

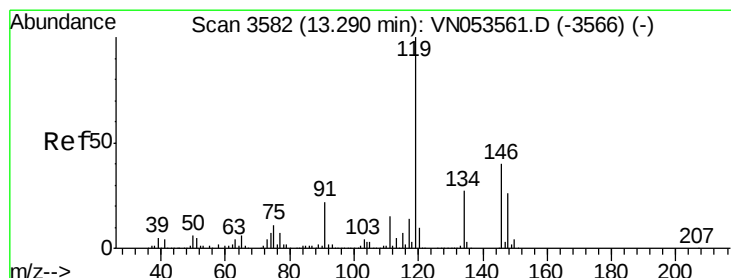
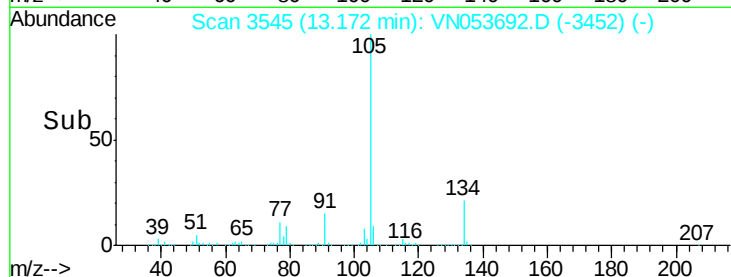
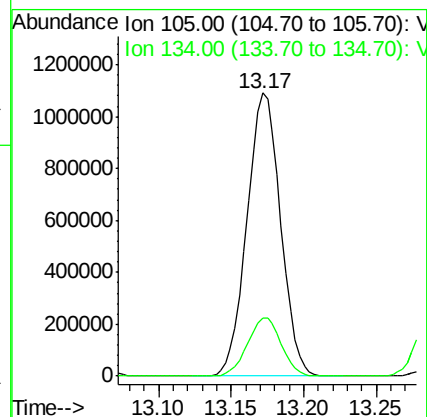
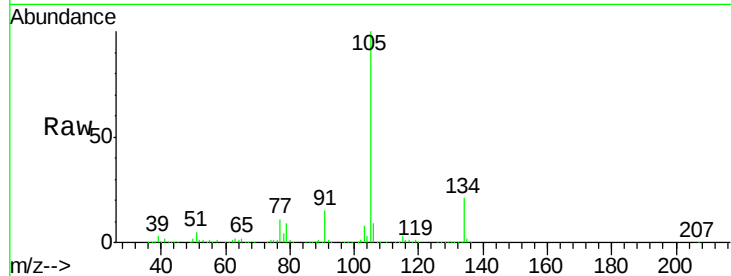
ClientSampleId :

Tot Ion:105 Resp: 1760632

Ion Ratio Lower Upper

105 100

134 20.7 10.2 30.6



#86

p-Isopropyltoluene

Concen: 51.594 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

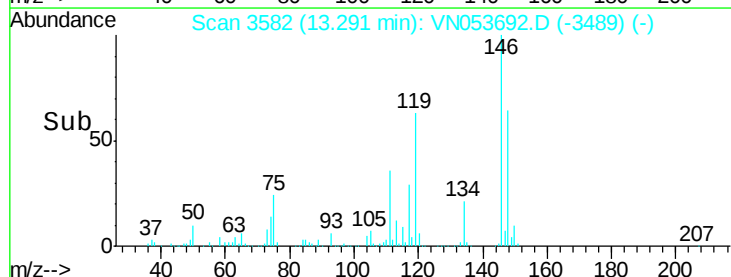
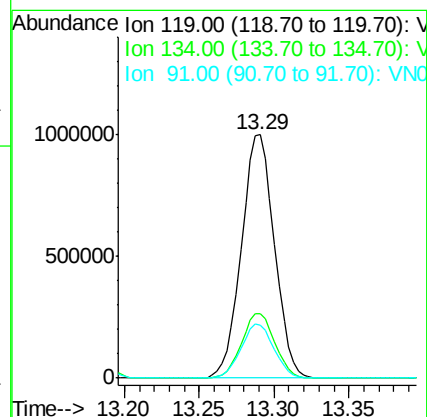
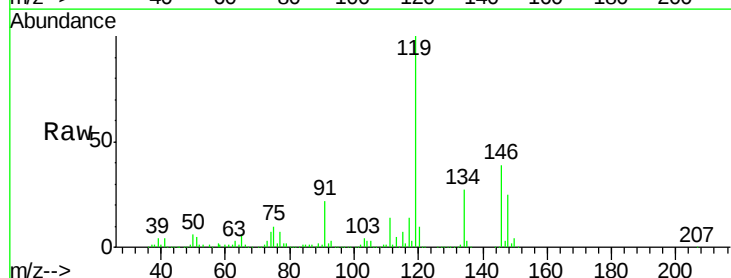
Tgt Ion:119 Resp: 1533860

Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.4

91 22.0 11.0 33.0





#87

1,3-Dichlorobenzene

Concen: 48.853 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

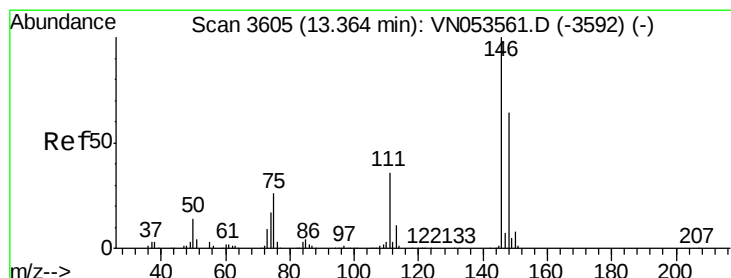
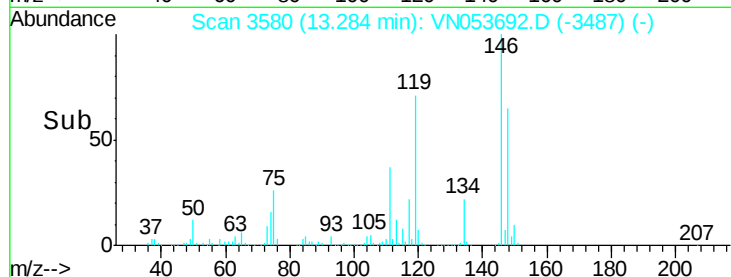
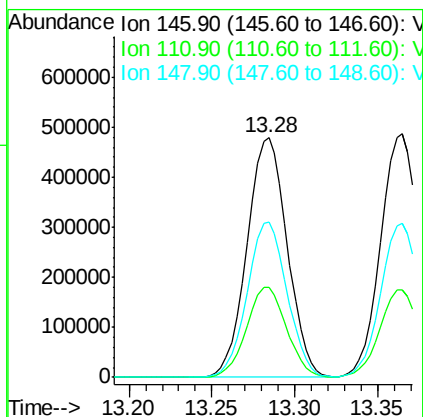
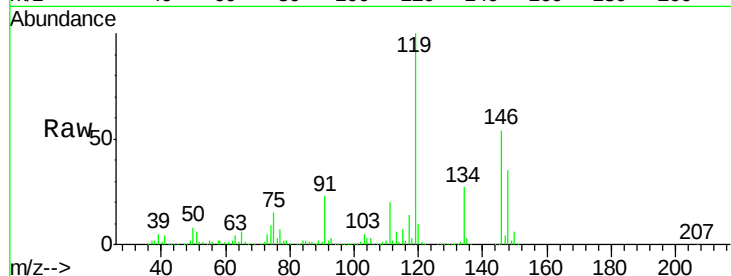
Tot Ion:146 Resp: 806699

Ion Ratio Lower Upper

146 100

111 37.4 18.8 56.3

148 64.3 32.0 96.2



#88

1,4-Dichlorobenzene

Concen: 48.756 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

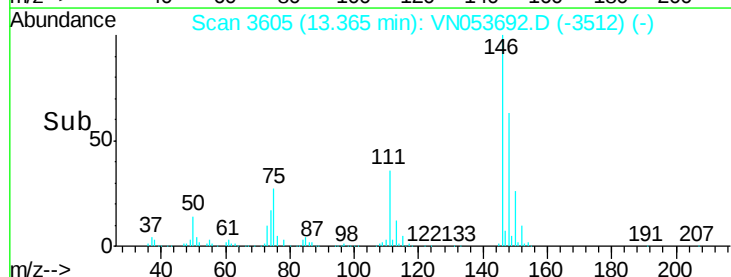
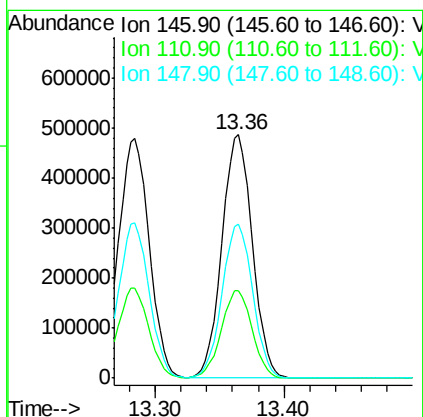
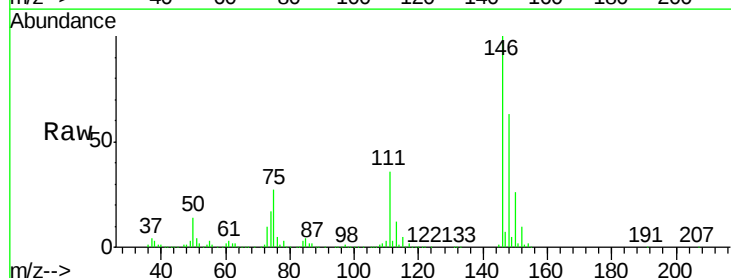
Tgt Ion:146 Resp: 796390

Ion Ratio Lower Upper

146 100

111 36.4 18.6 55.8

148 63.7 32.4 97.0

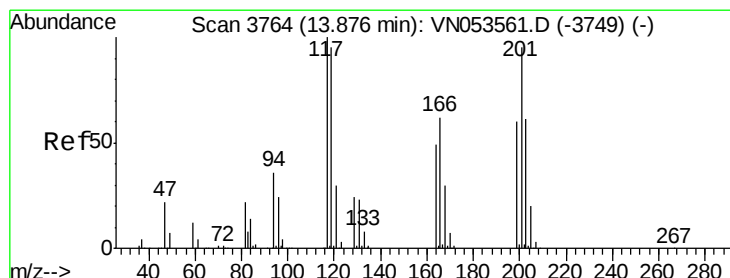
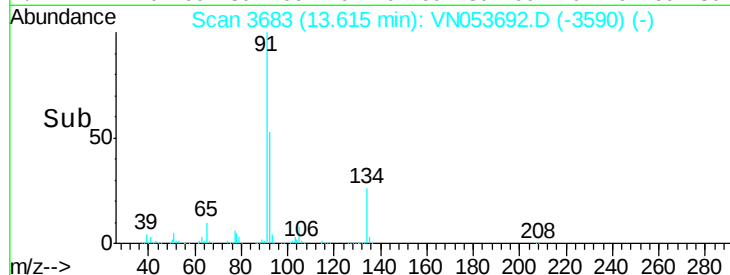
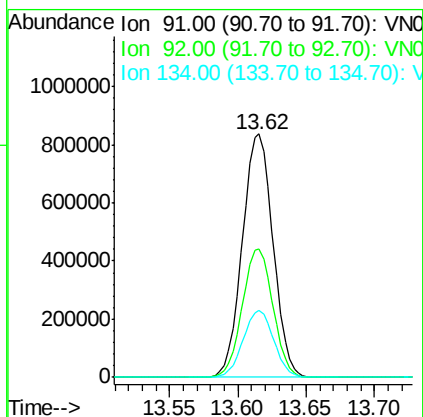
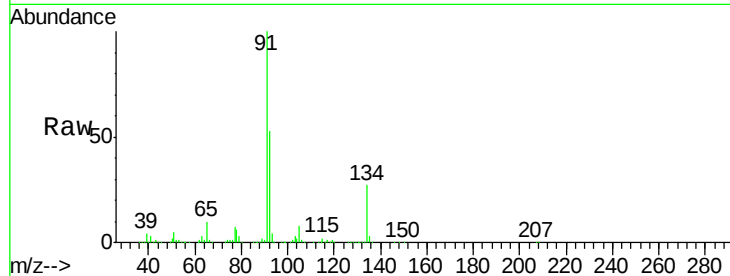




#89
n-Butylbenzene
Concen: 50.812 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

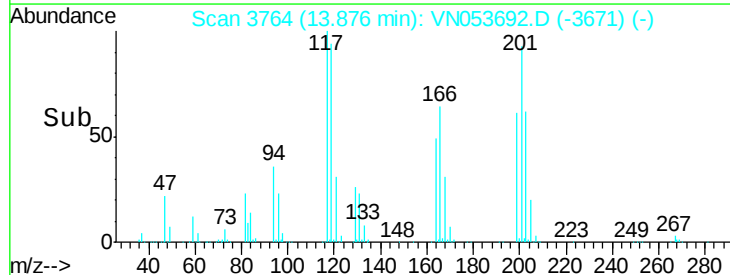
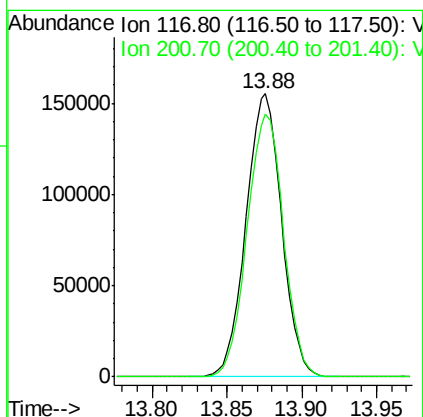
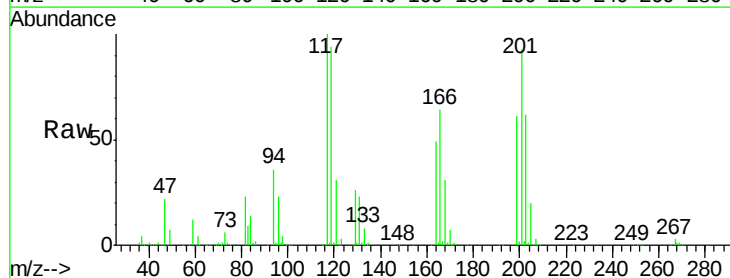
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 91 Resp: 1307542
Ion Ratio Lower Upper
91 100
92 52.6 26.3 78.8
134 27.3 13.5 40.5



#90
Hexachloroethane
Concen: 52.447 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN053692.D
Acq: 8 Feb 2019 19:59

Tgt Ion: 117 Resp: 257190
Ion Ratio Lower Upper
117 100
201 94.7 46.8 140.4





#91

1,2-Dichlorobenzene

Concen: 49.756 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

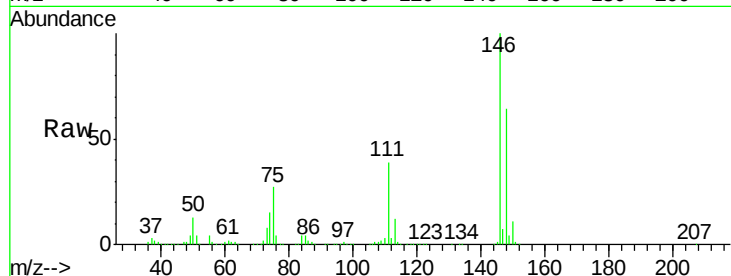
Tot Ion:146 Resp: 786554

Ion Ratio Lower Upper

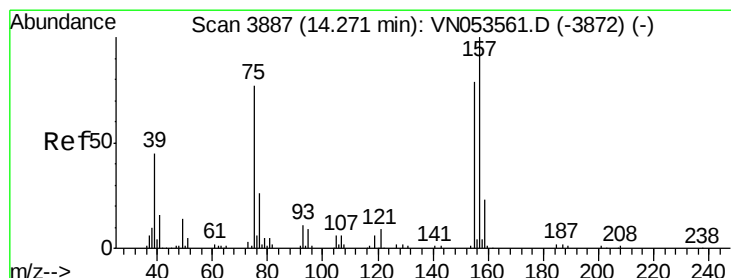
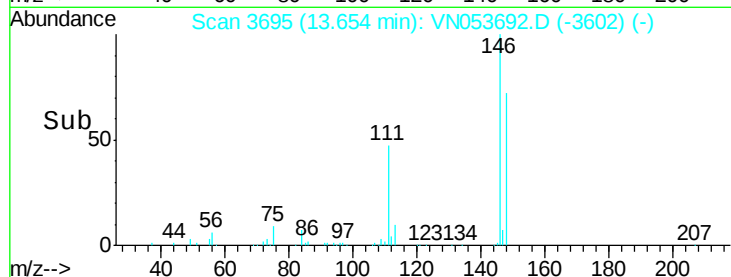
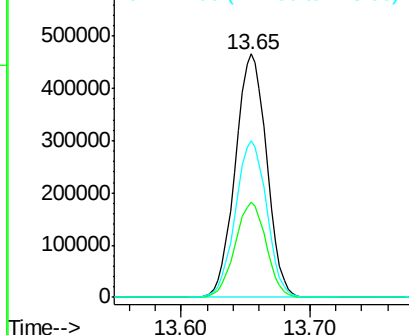
146 100

111 38.7 19.5 58.5

148 64.2 31.9 95.9



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: 49.426 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

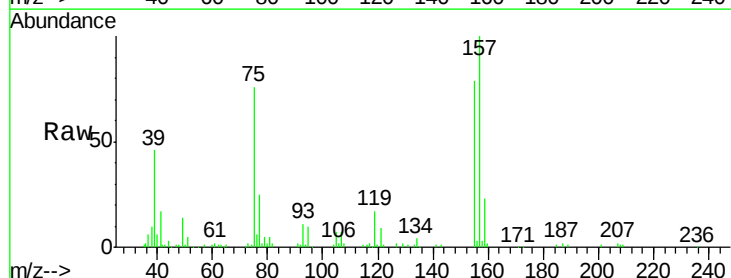
Tgt Ion: 75 Resp: 57458

Ion Ratio Lower Upper

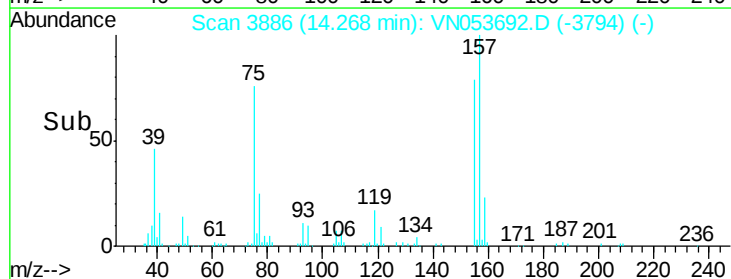
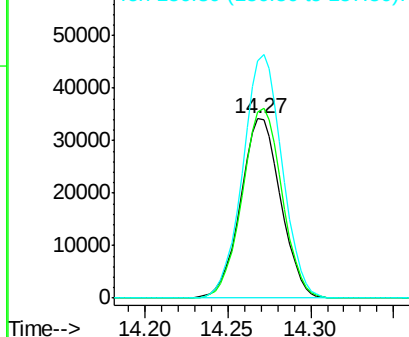
75 100

155 105.0 48.9 146.7

157 133.0 63.7 191.3



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





#93

1,2,4-Trichlorobenzene

Concen: 48.858 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

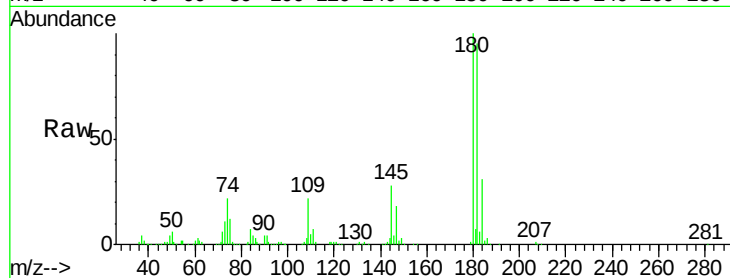
Tot Ion:180 Resp: 442979

Ion Ratio Lower Upper

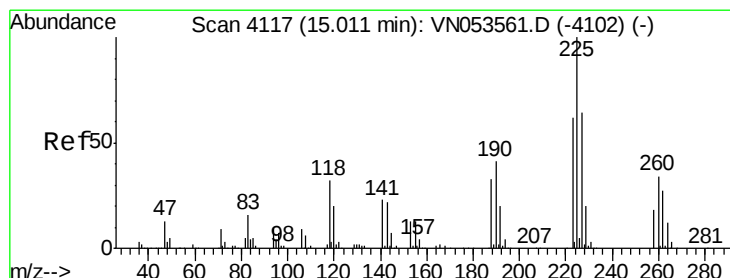
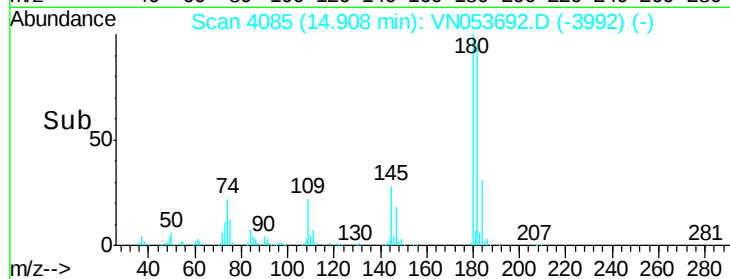
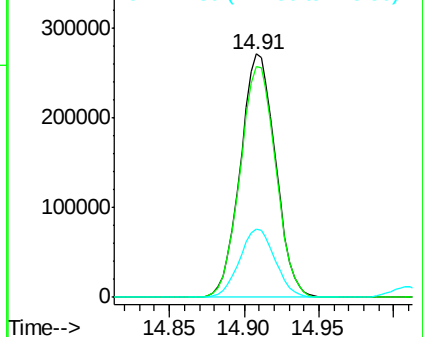
180 100

182 96.2 48.1 144.3

145 28.3 13.9 41.6



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: 47.355 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

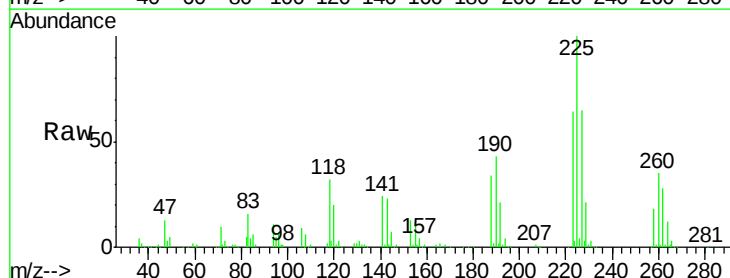
Tgt Ion:225 Resp: 267383

Ion Ratio Lower Upper

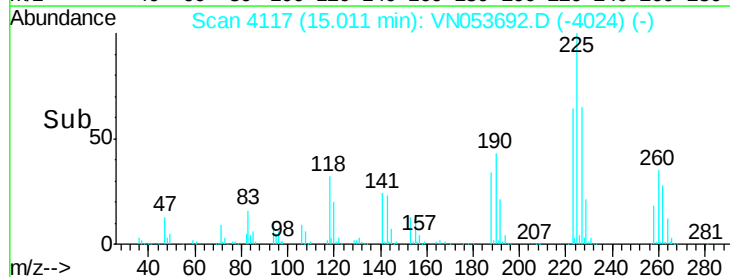
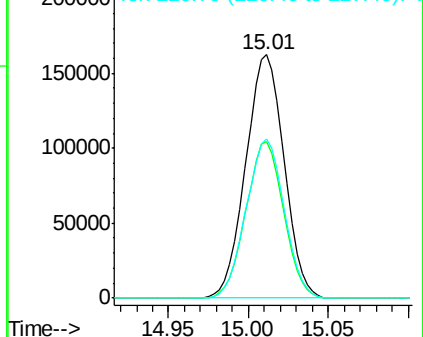
225 100

223 63.1 31.1 93.2

227 64.7 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: 45.058 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

Instrument :

MSVOA_N

ClientSampleId :

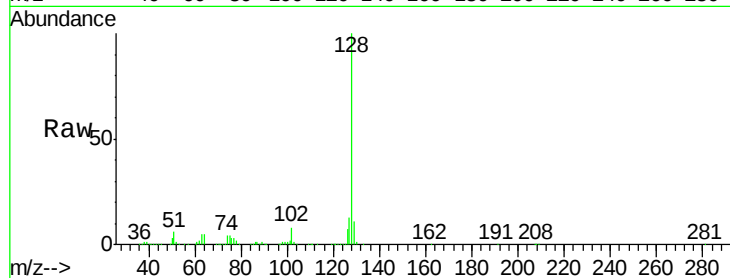
Tot Ion:128 Resp: 955850

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

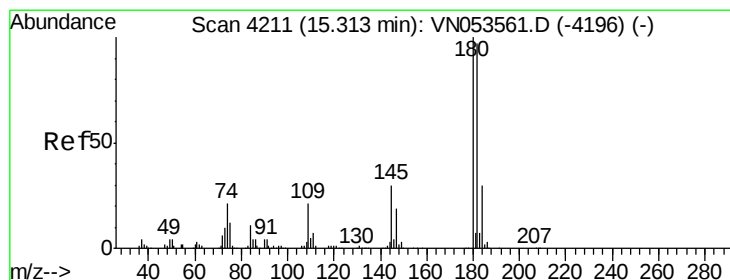
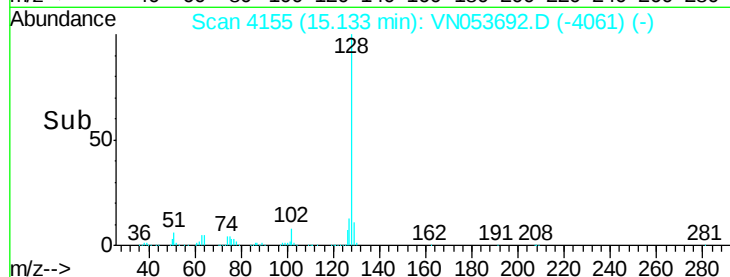
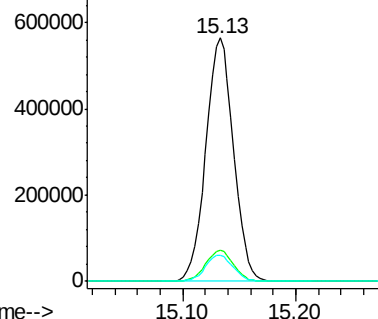
129 10.8 8.6 13.0



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: 49.578 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053692.D

Acq: 8 Feb 2019 19:59

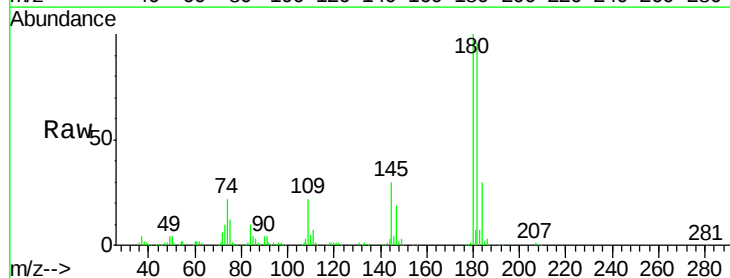
Tgt Ion:180 Resp: 417083

Ion Ratio Lower Upper

180 100

182 96.2 47.9 143.8

145 29.8 14.7 44.1



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

