

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051841.D
 Acq On : 12 Oct 2018 19:32
 Operator : MD\SY
 Sample : VN1012WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

Quant Time: Oct 13 02:06:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 09:51:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	813864	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1228576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1070418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	453424	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	377424	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
35) Dibromofluoromethane	7.59	113	372803	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	10.09	98	1336635	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	
62) 4-Bromofluorobenzene	12.40	95	419114	42.65	ug/l	0.00
Spiked Amount			Recovery	=	85.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	82680	18.300	ug/l	99
3) Chloromethane	2.06	50	94171	17.209	ug/l	100
4) Vinyl Chloride	2.19	62	137637	16.771	ug/l	98
5) Bromomethane	2.57	94	134193	18.123	ug/l	99
6) Chloroethane	2.71	64	107638	17.861	ug/l	96
7) Trichlorofluoromethane	3.01	101	205065	16.825	ug/l	98
8) Diethyl Ether	3.41	74	61667	18.347	ug/l	81
9) 1,1,2-Trichlorotrifluoroet	3.76	101	123539	19.009	ug/l	98
10) Methyl Iodide	3.95	142	146622	17.121	ug/l	95
11) Tert butyl alcohol	4.79	59	37065	64.788	ug/l	95
12) 1,1-Dichloroethene	3.74	96	111062	19.013	ug/l	91
13) Acrolein	3.61	56	42752	84.187	ug/l	99
14) Allyl chloride	4.33	41	123341	16.817	ug/l #	72
15) Acrylonitrile	5.00	53	151498	81.353	ug/l	98
16) Acetone	3.82	43	104627	62.365	ug/l	100
17) Carbon Disulfide	4.06	76	256102	16.195	ug/l	98
18) Methyl Acetate	4.33	43	72504	15.724	ug/l #	90
19) Methyl tert-butyl Ether	5.05	73	323182	17.574	ug/l	94
20) Methylene Chloride	4.56	84	128917	18.568	ug/l	88
21) trans-1,2-Dichloroethene	5.05	96	124632	18.170	ug/l	89
22) Diisopropyl ether	5.95	45	292609	18.054	ug/l #	85
23) Vinyl Acetate	5.90	43	986500	83.198	ug/l #	94
24) 1,1-Dichloroethane	5.85	63	206281	18.526	ug/l	97
25) 2-Butanone	6.84	43	160393	67.656	ug/l #	87
26) 2,2-Dichloropropane	6.82	77	179864	15.954	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	149026	18.848	ug/l	88
28) Bromochloromethane	7.20	49	86316	18.476	ug/l #	64
29) Tetrahydrofuran	7.22	42	112252	79.455	ug/l #	83
30) Chloroform	7.37	83	246231	18.495	ug/l	100
31) Cyclohexane	7.66	56	179367	17.736	ug/l #	74
32) 1,1,1-Trichloroethane	7.57	97	227614	18.210	ug/l	97
36) 1,1-Dichloropropene	7.80	75	171824	17.275	ug/l	95
37) Ethyl Acetate	6.94	43	76729	15.025	ug/l #	92
38) Carbon Tetrachloride	7.78	117	205210	17.799	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	210106	17.196	ug/l	89
40) Benzene	8.04	78	523008	18.228	ug/l	100
41) Methacrylonitrile	7.18	41	43995	17.870	ug/l	90
42) 1,2-Dichloroethane	8.13	62	166449	17.696	ug/l	98
43) Isopropyl Acetate	8.17	43	152340	14.547	ug/l #	97
44) Trichloroethene	8.84	130	159814	18.296	ug/l	92
45) 1,2-Dichloropropane	9.12	63	121885	18.067	ug/l	99
46) Dibromomethane	9.21	93	88001	16.998	ug/l	99
47) Bromodichloromethane	9.40	83	177301	17.141	ug/l	99
48) Methyl methacrylate	9.20	41	70205	15.433	ug/l #	74
49) 1,4-Dioxane	9.20	88	24835	313.347	ug/l	90
51) 4-Methyl-2-Pentanone	9.99	43	404055	76.223	ug/l	97
52) Toluene	10.16	92	339719	17.633	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	160758	15.512	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	186403	16.383	ug/l	97
55) 1,1,2-Trichloroethane	10.56	97	127315	17.567	ug/l	93
56) Ethyl methacrylate	10.43	69	135159	15.836	ug/l #	88
57) 1,3-Dichloropropane	10.71	76	190011	16.875	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	315700	84.946	ug/l #	87
59) 2-Hexanone	10.75	43	247617	66.507	ug/l	96
60) Dibromochloromethane	10.90	129	139909	16.261	ug/l	100
61) 1,2-Dibromoethane	11.01	107	127867	17.130	ug/l	98
64) Tetrachloroethene	10.63	164	158922	19.358	ug/l	97
65) Chlorobenzene	11.43	112	391415	18.081	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	147734	17.905	ug/l	97
67) Ethyl Benzene	11.51	91	648097	18.085	ug/l	98
68) m/p-Xylenes	11.62	106	511080	35.305	ug/l	98
69) o-Xylene	11.95	106	254231	18.083	ug/l	96
70) Styrene	11.96	104	378597	17.455	ug/l	99
71) Bromoform	12.13	173	84104	15.596	ug/l #	100
73) Isopropylbenzene	12.25	105	678731	19.426	ug/l	99
74) N-amyl acetate	12.07	43	113841	16.430	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	136972	17.848	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	158487	28.135	ug/l #	100
77) Bromobenzene	12.53	156	163583	18.778	ug/l	88
78) n-propylbenzene	12.59	91	695466	19.008	ug/l	97
79) 2-Chlorotoluene	12.67	91	427800	19.410	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	551444	19.369	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	27600	14.017	ug/l	94
82) 4-Chlorotoluene	12.77	91	411045	19.408	ug/l	98
83) tert-Butylbenzene	12.99	119	515699	19.531	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	549613	19.389	ug/l	100
85) sec-Butylbenzene	13.17	105	650563	19.018	ug/l	98
86) p-Isopropyltoluene	13.29	119	560923	18.646	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	275843	18.514	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	259851	17.994	ug/l	99
89) n-Butylbenzene	13.62	91	406831	18.191	ug/l	98
90) Hexachloroethane	13.87	117	90741	16.620	ug/l	94
91) 1,2-Dichlorobenzene	13.65	146	272060	18.897	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	18281	16.181	ug/l	94

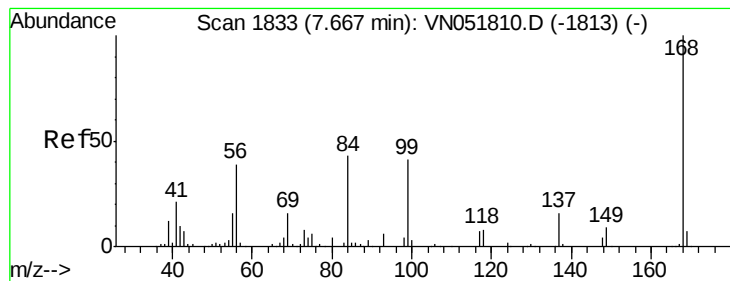
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
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Quant Title : SW846 8260
QLast Update : Fri Oct 12 09:51:20 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	97243	15.505	ug/l	98
94) Hexachlorobutadiene	15.01	225	84415	18.138	ug/l	99
95) Naphthalene	15.13	128	185525	14.526	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	105564	16.341	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

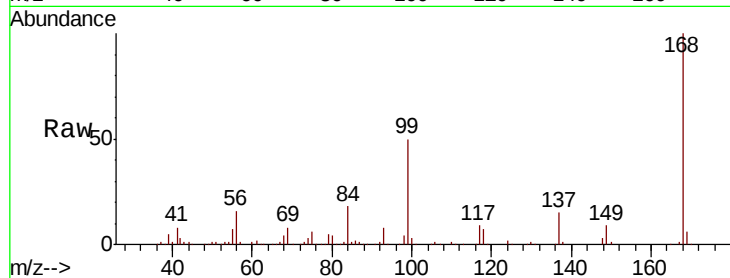
VN1012WBS02

Tot Ion:168 Resp: 813864

Ion Ratio Lower Upper

168 100

99 49.3 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): VN051841.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051841.D (-1740) (-)

7.67

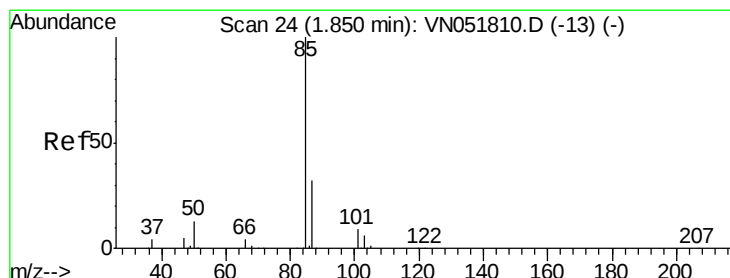
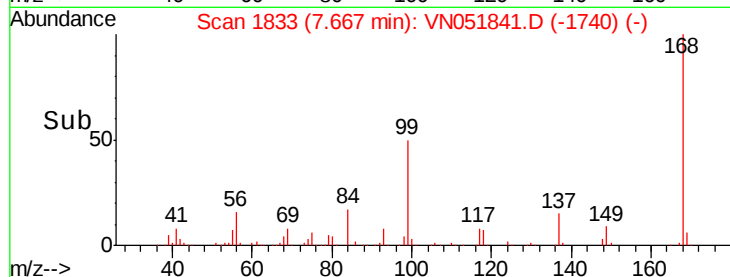
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.300 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN051841.D

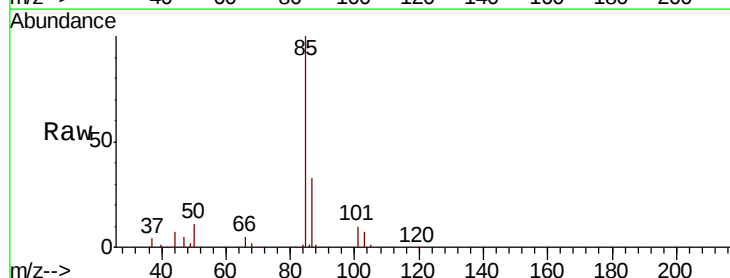
Acq: 12 Oct 2018 19:32

Tgt Ion: 85 Resp: 82680

Ion Ratio Lower Upper

85 100

87 33.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN051841.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN051841.D (-1) (-)

1.85

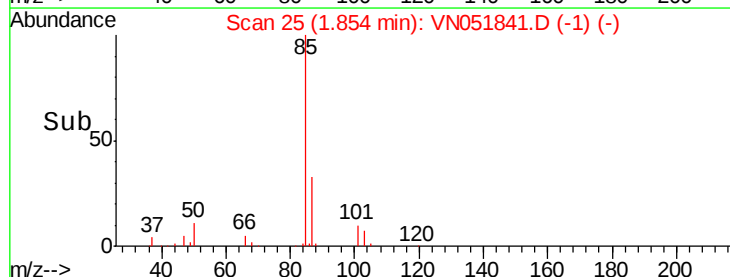
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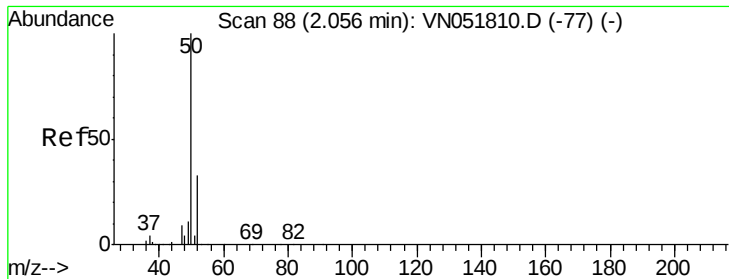
40000

20000

0

Time-->





#3

Chloromethane

Concen: 17.209 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

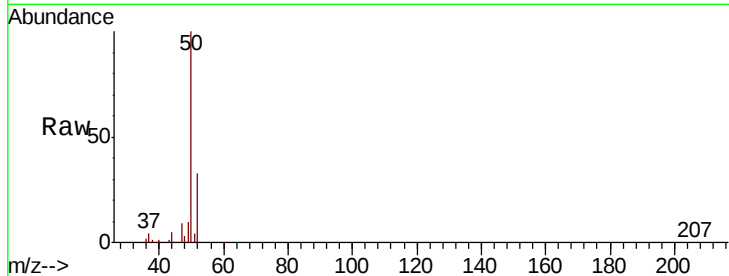
VN1012WBS02

Tot Ion: 50 Resp: 94171

Ion Ratio Lower Upper

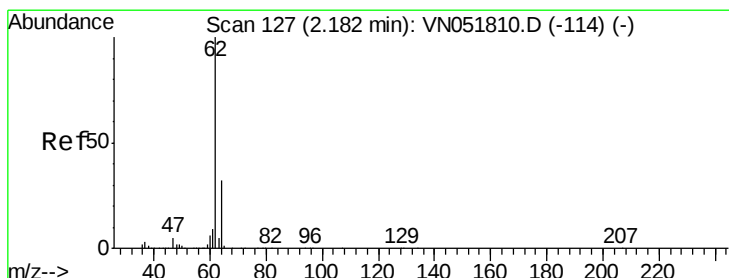
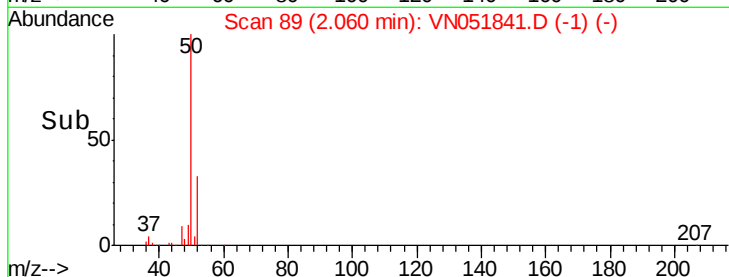
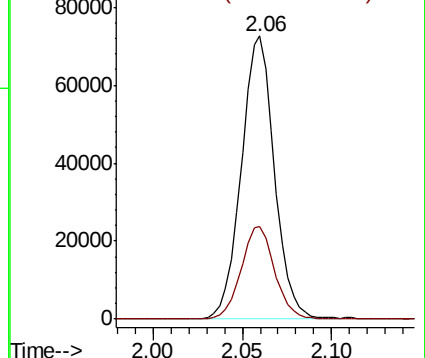
50 100

52 32.8 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 16.771 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051841.D

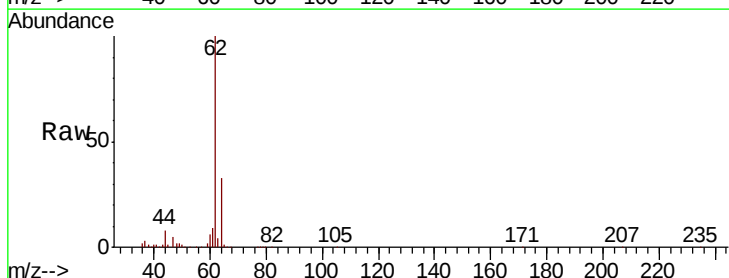
Acq: 12 Oct 2018 19:32

Tgt Ion: 62 Resp: 137637

Ion Ratio Lower Upper

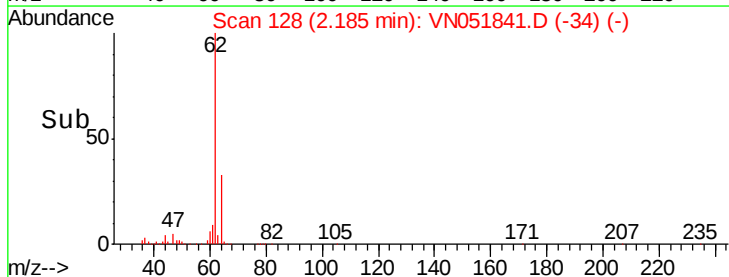
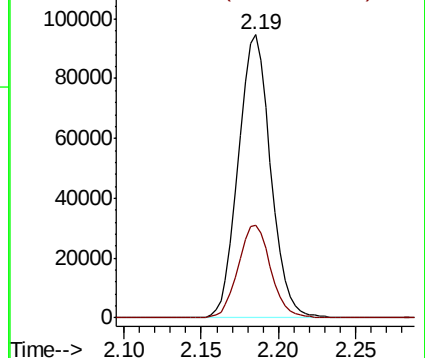
62 100

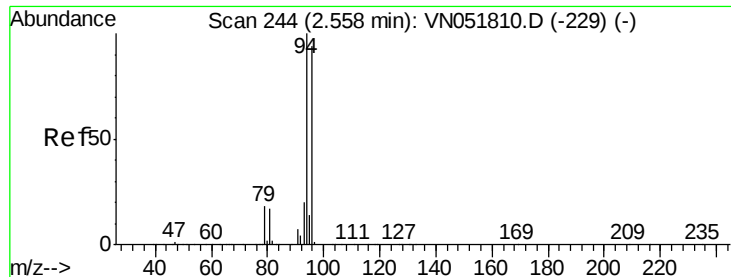
64 32.9 25.4 38.2



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 18.123 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

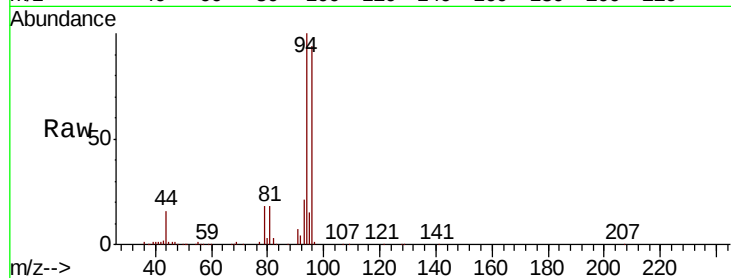
VN1012WBS02

Tot Ion: 94 Resp: 134193

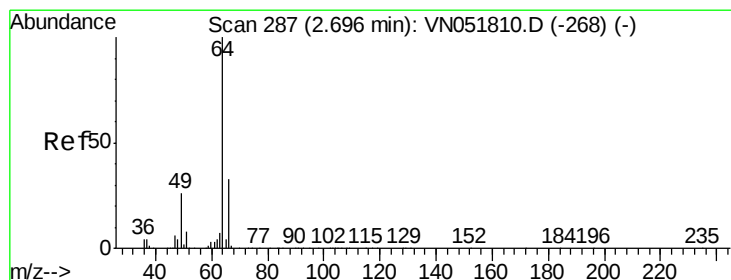
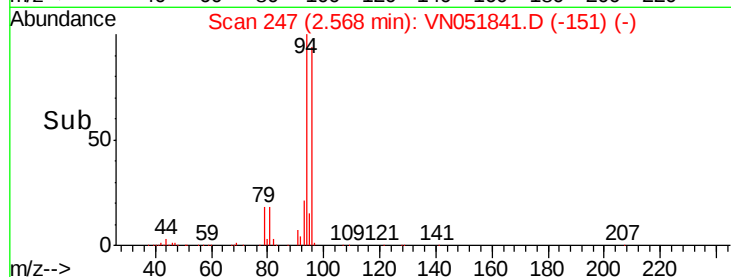
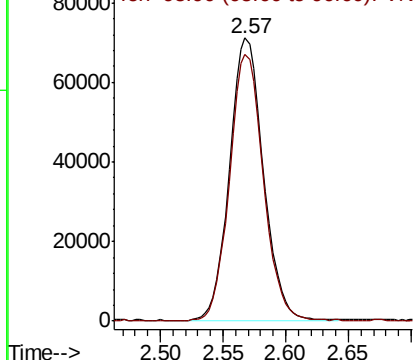
Ion Ratio Lower Upper

94 100

96 94.0 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VNO
Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 17.861 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN051841.D

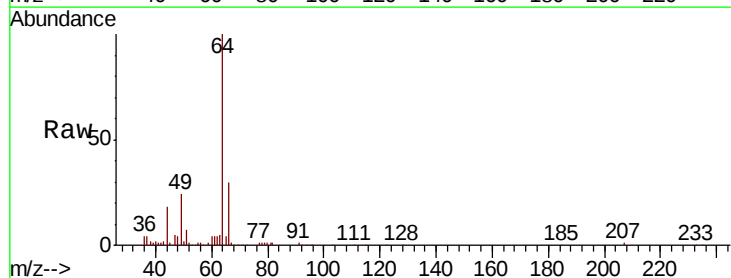
Acq: 12 Oct 2018 19:32

Tgt Ion: 64 Resp: 107638

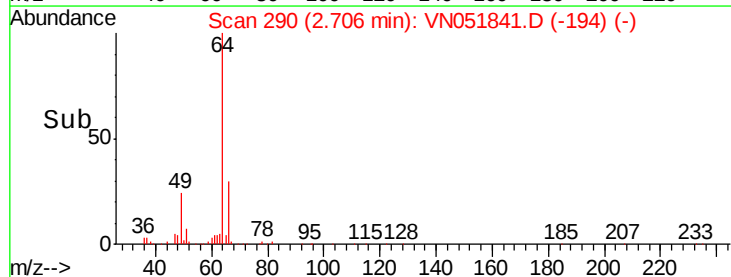
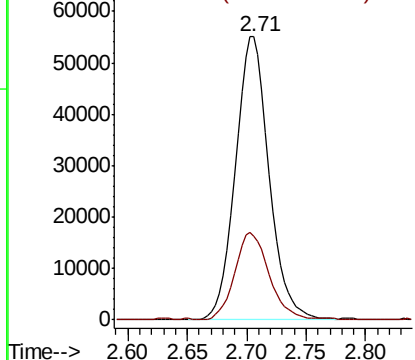
Ion Ratio Lower Upper

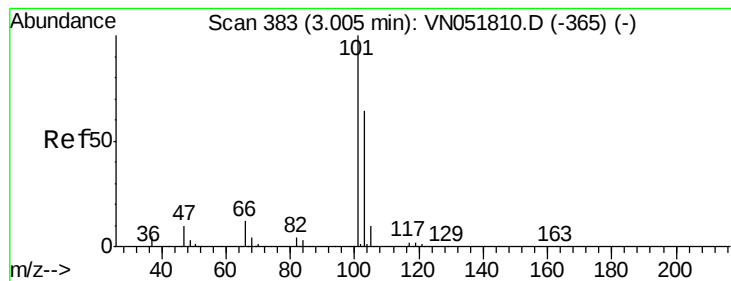
64 100

66 29.3 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNO
Ion 65.90 (65.60 to 66.60): VNO



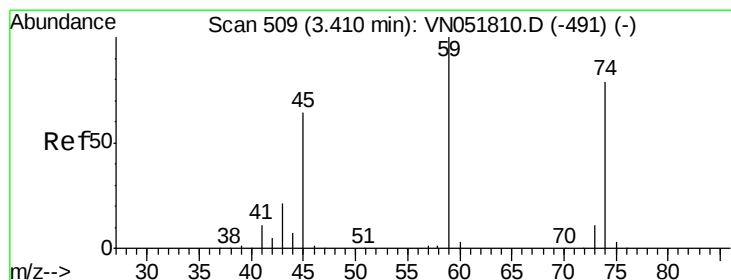
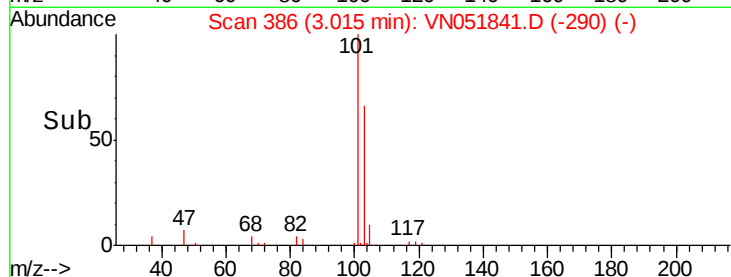
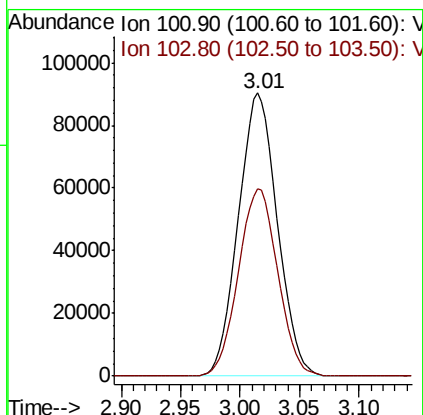
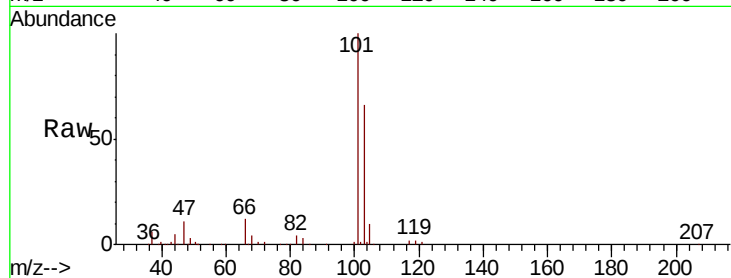


#7

Trichlorofluoromethane
 Concen: 16.825 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.01 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Instrument :
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 VN1012WBS02

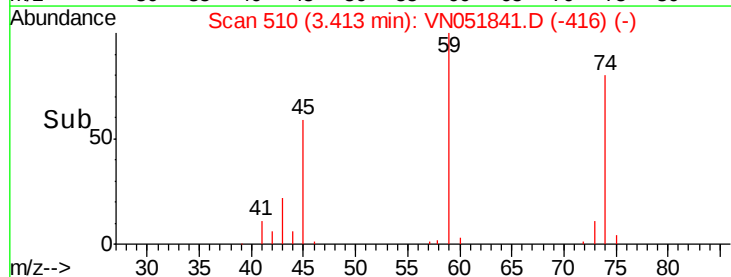
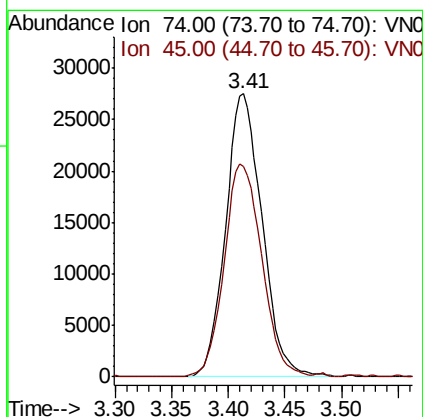
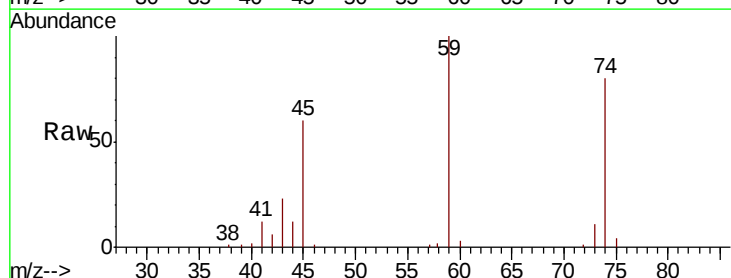
Tot Ion:101 Resp: 205065
 Ion Ratio Lower Upper
 101 100
 103 66.0 51.6 77.4

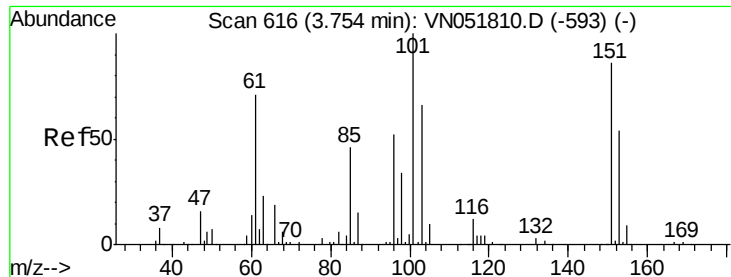


#8

Diethyl Ether
 Concen: 18.347 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion: 74 Resp: 61667
 Ion Ratio Lower Upper
 74 100
 45 77.7 48.2 144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.009 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

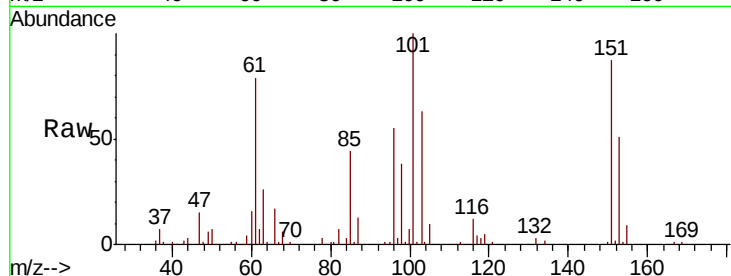
Tot Ion:101 Resp: 123539

Ion Ratio Lower Upper

101 100

85 44.0 33.7 50.5

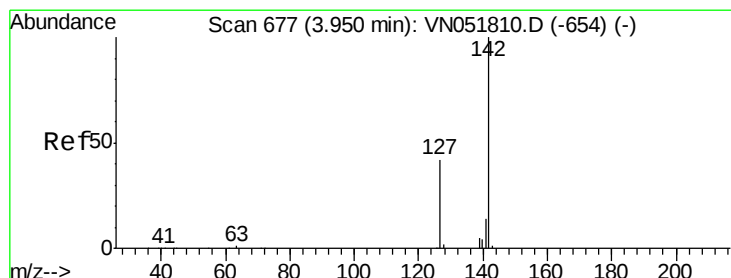
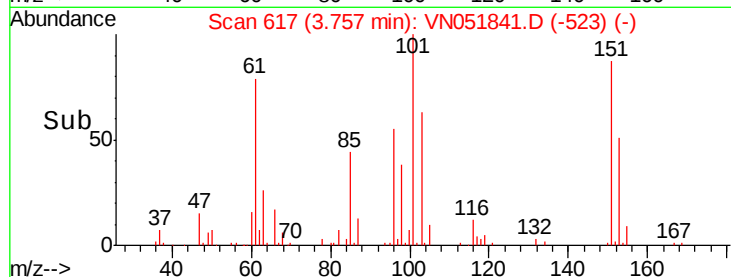
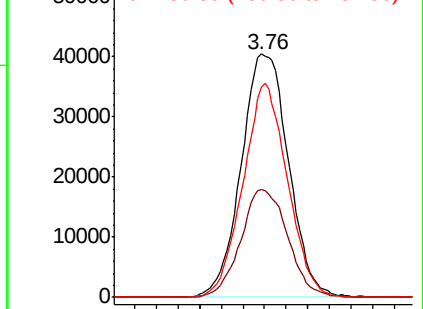
151 82.4 67.4 101.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.121 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

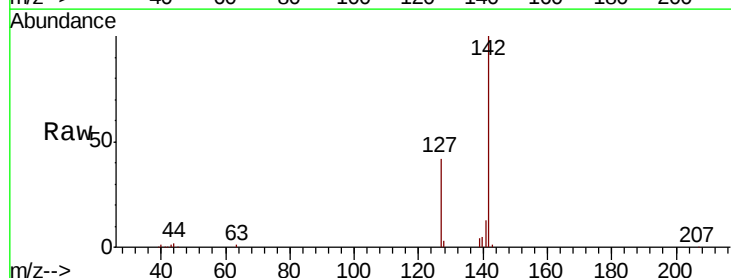
Tgt Ion:142 Resp: 146622

Ion Ratio Lower Upper

142 100

127 43.5 31.7 47.5

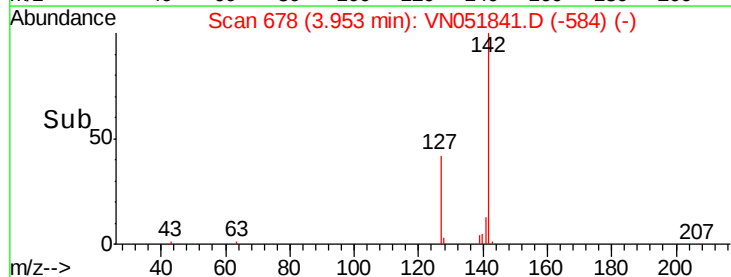
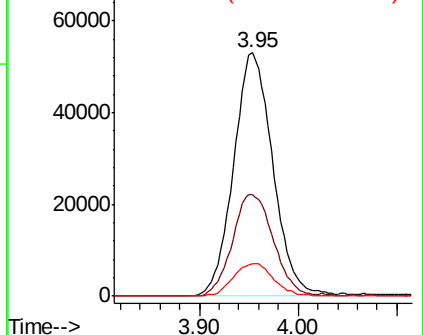
141 13.7 11.4 17.0

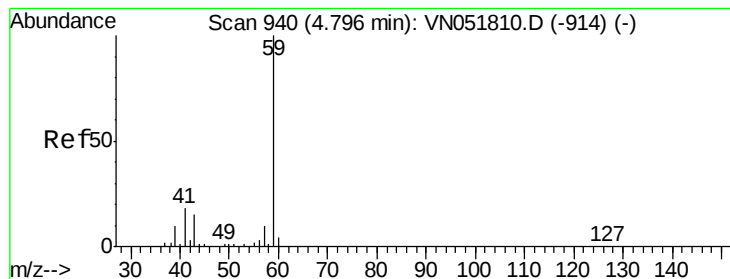


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



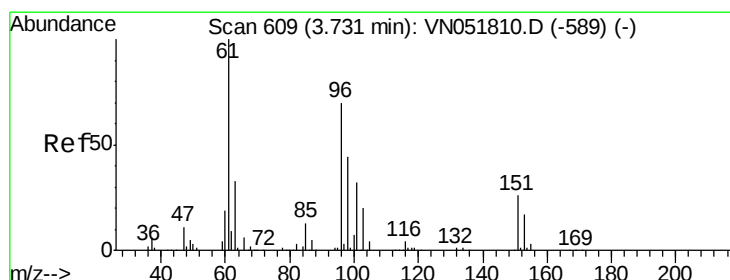
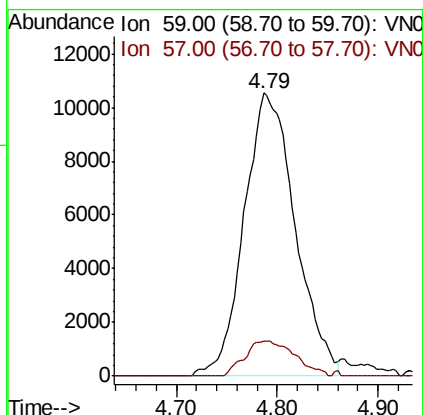
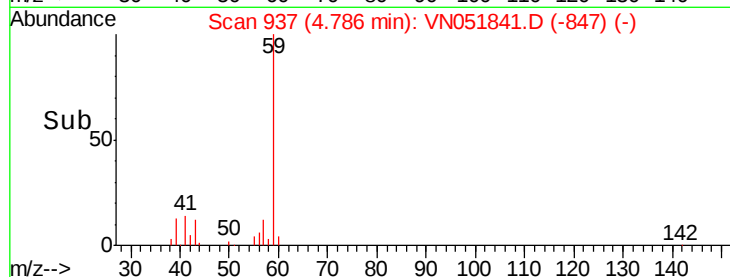
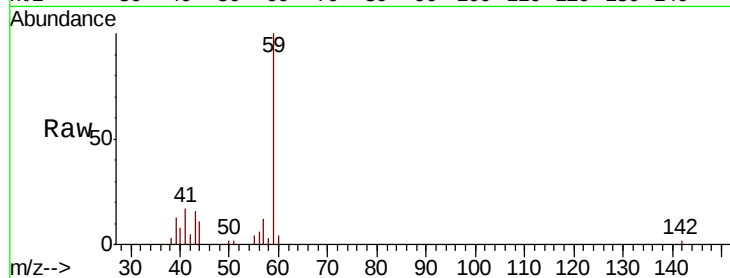


#11

Tert butyl alcohol
 Concen: 64.788 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. -0.01 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

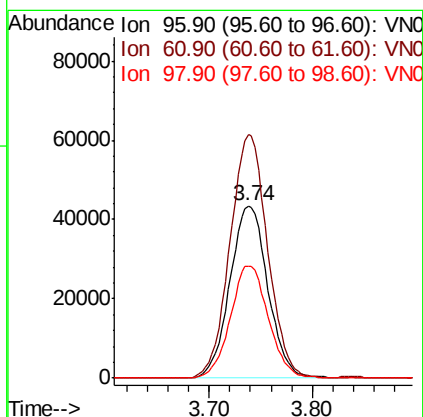
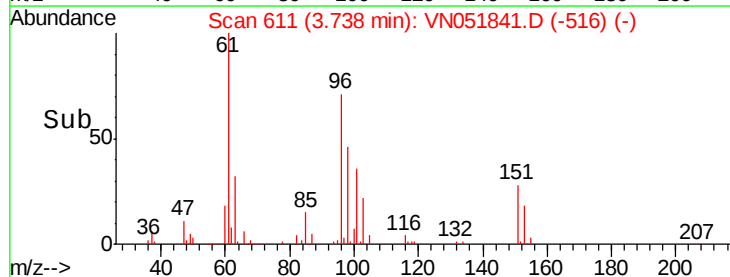
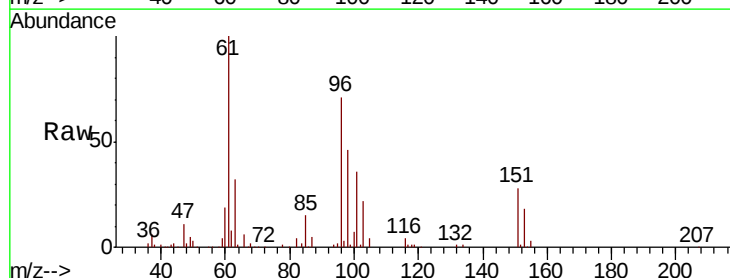
Tot Ion: 59 Resp: 37065
 Ion Ratio Lower Upper
 59 100
 57 12.2 8.3 12.5

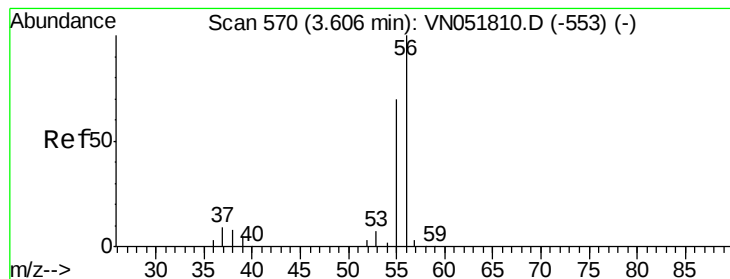


#12

1,1-Dichloroethene
 Concen: 19.013 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.01 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion: 96 Resp: 111062
 Ion Ratio Lower Upper
 96 100
 61 141.2 124.9 187.3
 98 65.0 51.1 76.7





#13

Acrolein

Concen: 84.187 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

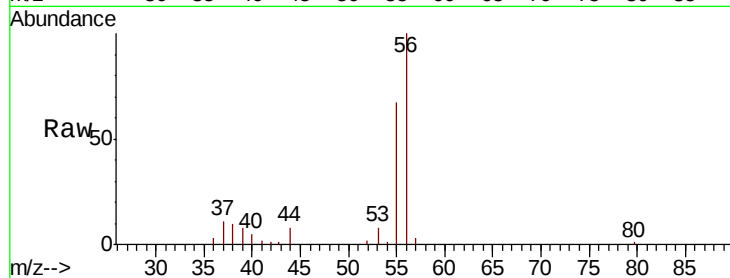
VN1012WBS02

Tot Ion: 56 Resp: 42752

Ion Ratio Lower Upper

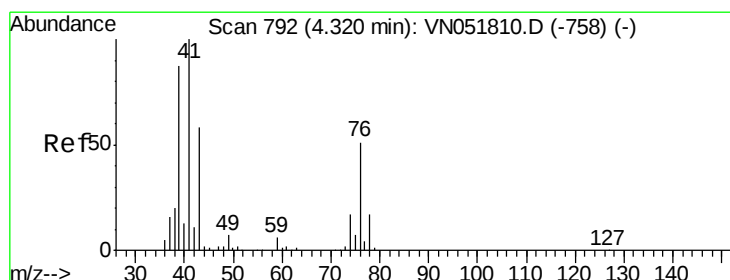
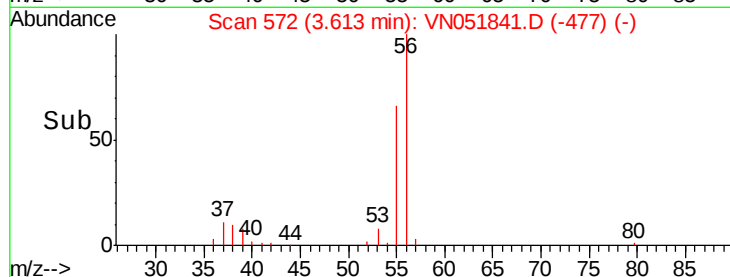
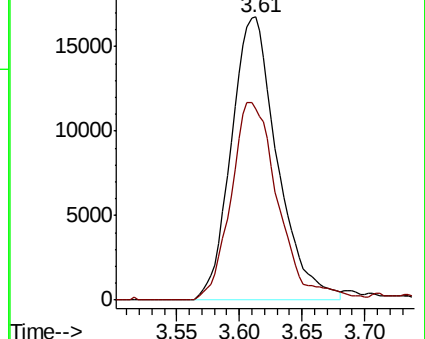
56 100

55 71.5 57.7 86.5



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 16.817 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

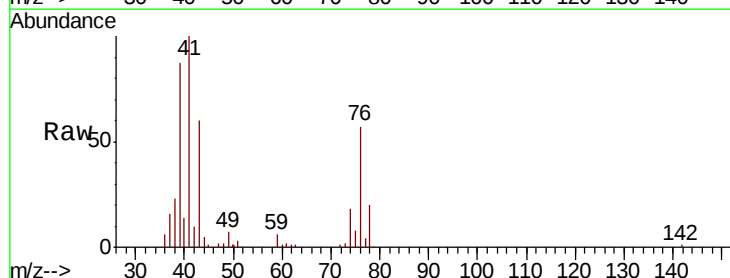
Tgt Ion: 41 Resp: 123341

Ion Ratio Lower Upper

41 100

39 85.7 50.2 75.2#

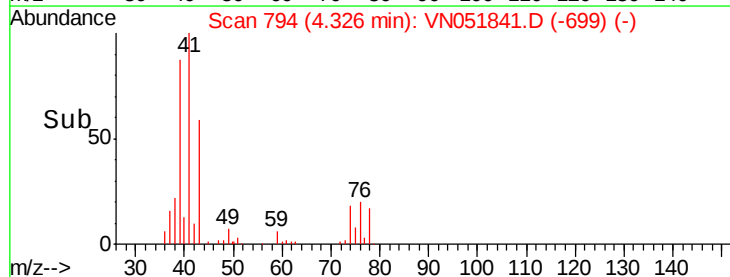
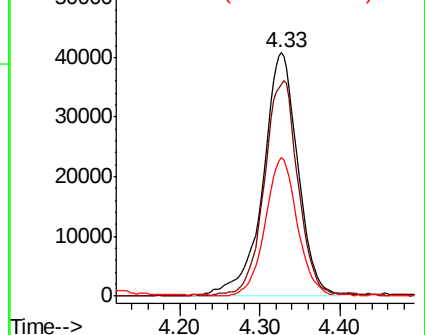
76 52.6 29.8 44.8#

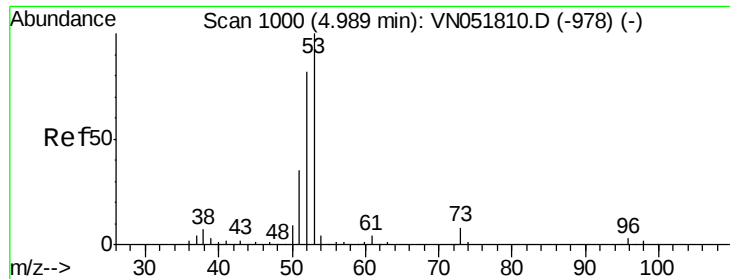


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 81.353 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.01 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

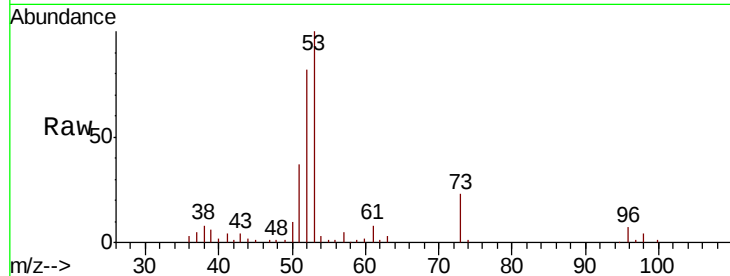
Tot Ion: 53 Resp: 151498

Ion Ratio Lower Upper

53 100

52 81.5 65.9 98.9

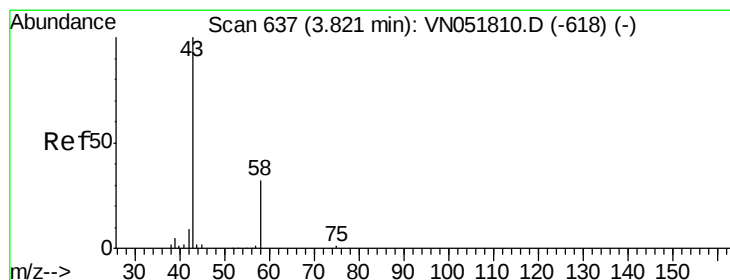
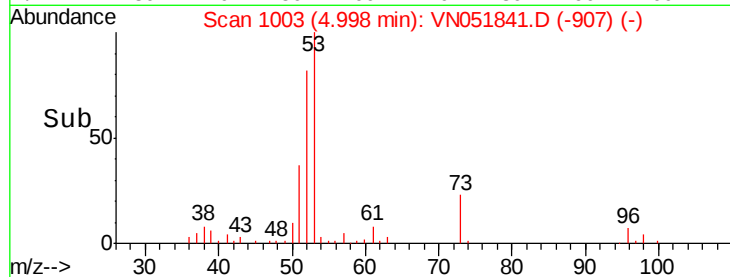
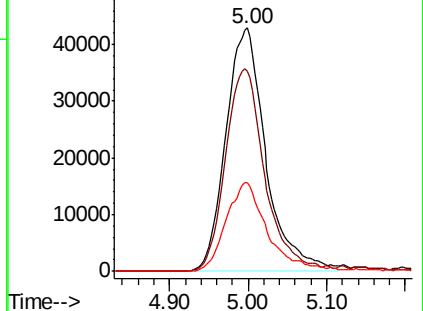
51 37.8 28.6 43.0



Abundance Ion 53.00 (52.70 to 53.70): VN051841.D (-978) (-)

Ion 52.00 (51.70 to 52.70): VN051841.D (-978) (-)

Ion 51.00 (50.70 to 51.70): VN051841.D (-978) (-)



#16

Acetone

Concen: 62.365 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051841.D

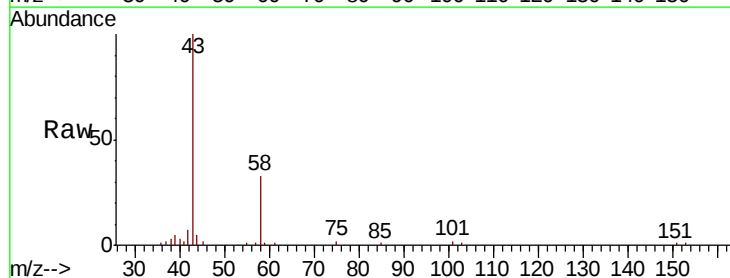
Acq: 12 Oct 2018 19:32

Tgt Ion: 43 Resp: 104627

Ion Ratio Lower Upper

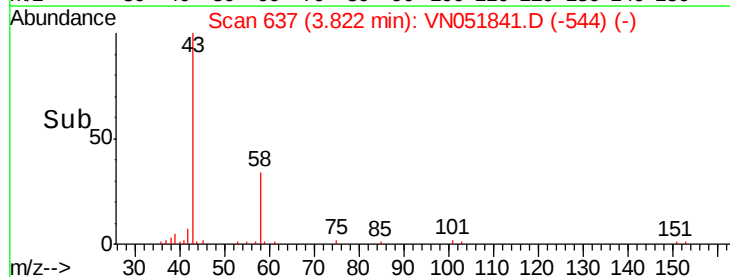
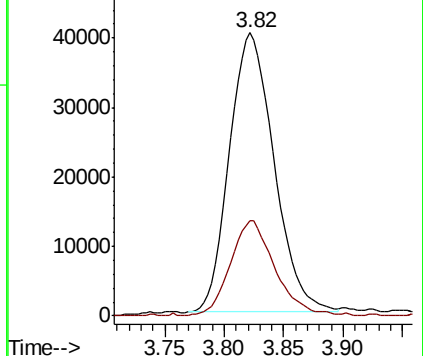
43 100

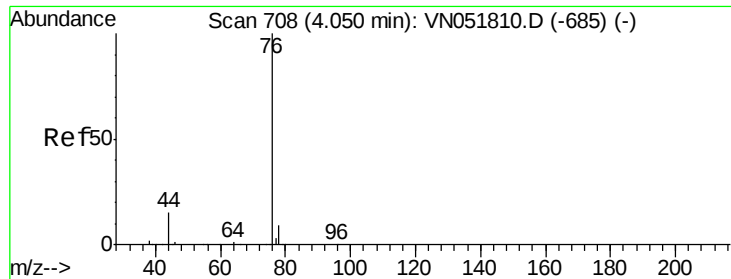
58 33.9 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN051841.D (-544) (-)

Ion 58.00 (57.70 to 58.70): VN051841.D (-544) (-)

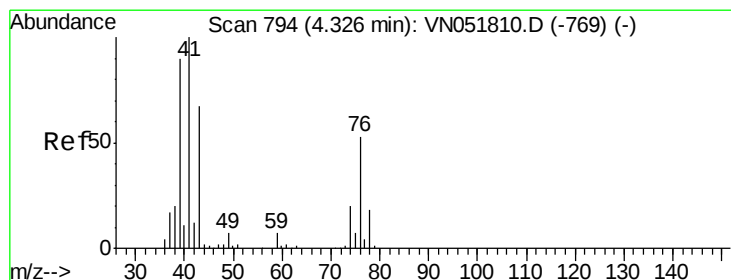
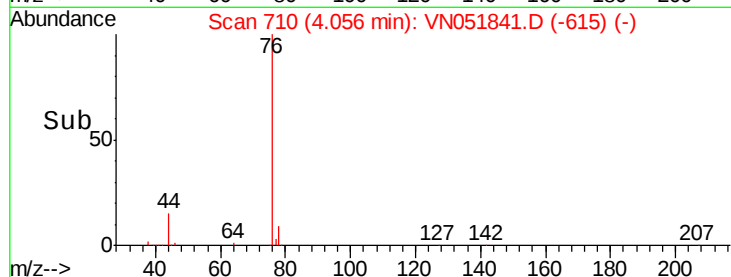
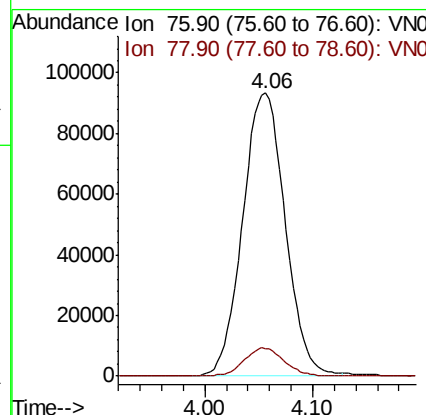
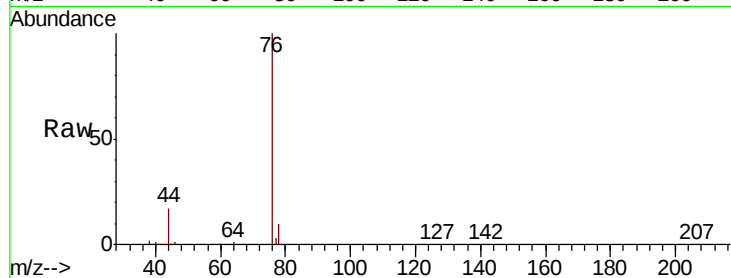




#17
Carbon Disulfide
Concen: 16.195 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.01 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

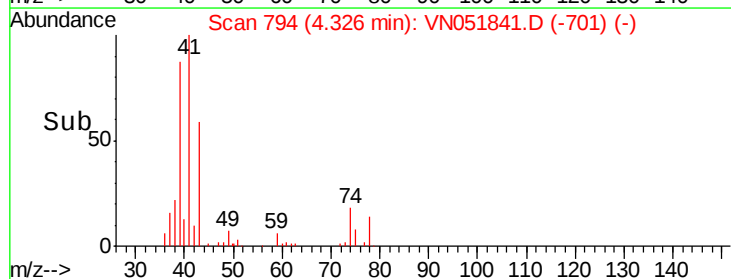
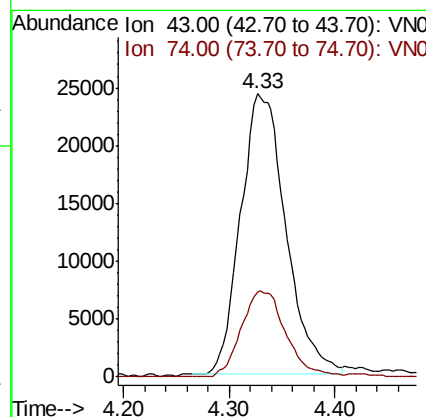
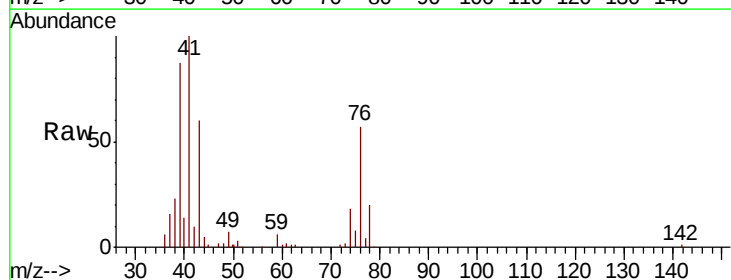
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

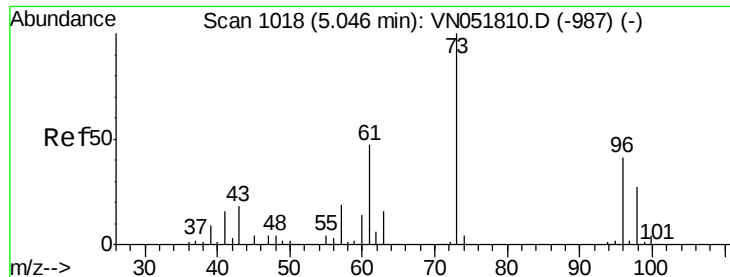
Tot Ion: 76 Resp: 256102
Ion Ratio Lower Upper
76 100
78 9.9 7.3 10.9



#18
Methyl Acetate
Concen: 15.724 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 43 Resp: 72504
Ion Ratio Lower Upper
43 100
74 30.0 19.8 29.8#



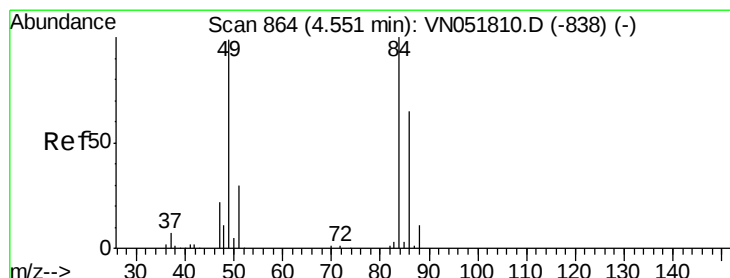
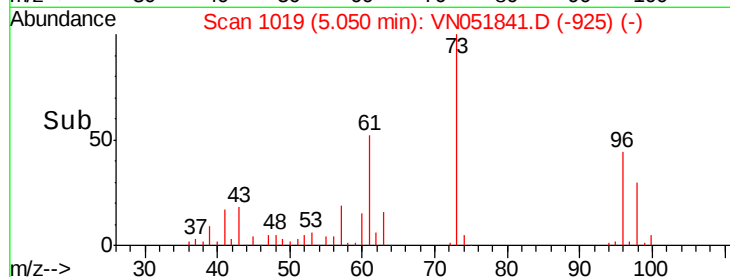
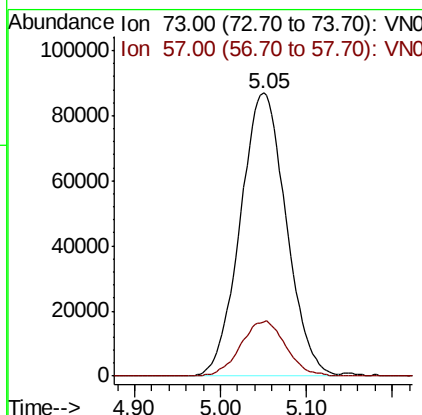
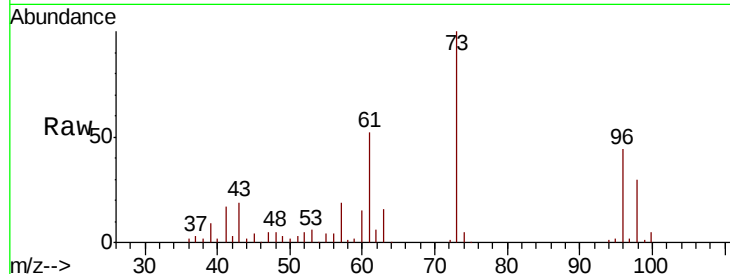


#19

Methyl tert-butyl Ether
 Concen: 17.574 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

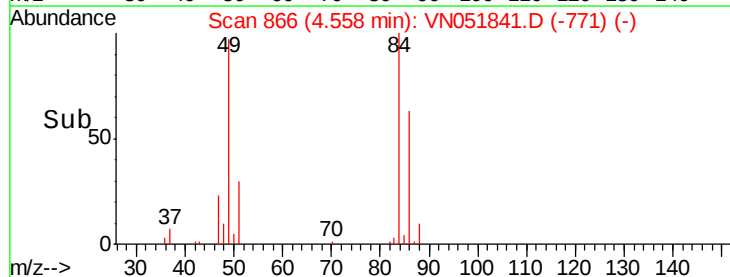
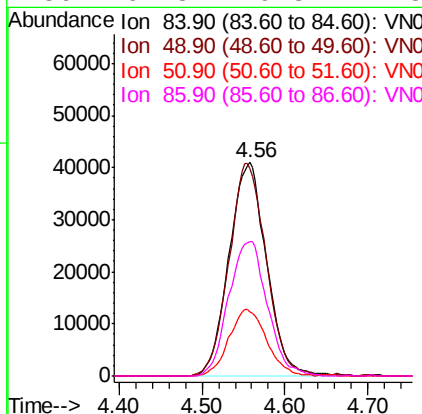
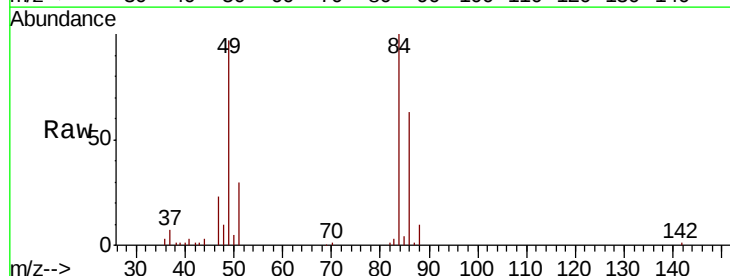
Tot Ion: 73 Resp: 323182
 Ion Ratio Lower Upper
 73 100
 57 19.4 17.8 26.8

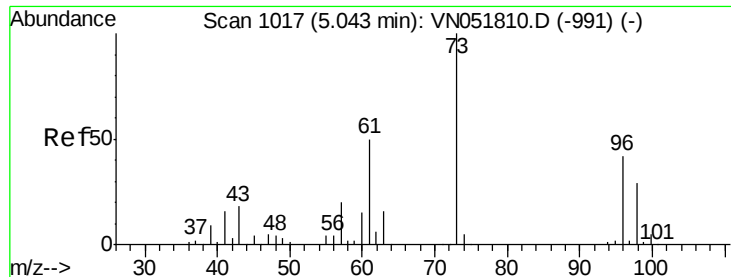


#20

Methylene Chloride
 Concen: 18.568 ug/l
 RT: 4.56 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion: 84 Resp: 128917
 Ion Ratio Lower Upper
 84 100
 49 96.9 93.2 139.8
 51 30.1 29.0 43.6
 86 62.8 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.170 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

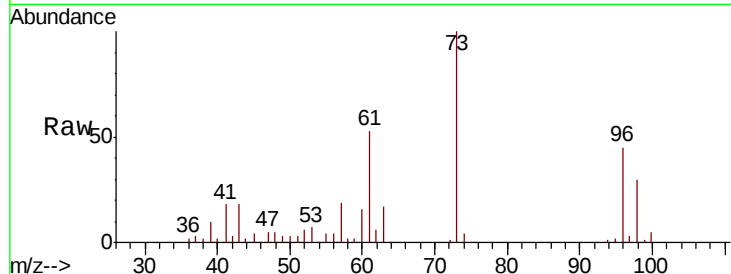
Tot Ion: 96 Resp: 124632

Ion Ratio Lower Upper

96 100

61 117.6 107.4 161.0

98 66.3 50.7 76.1

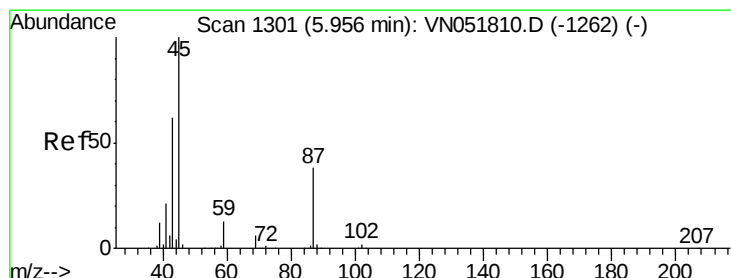
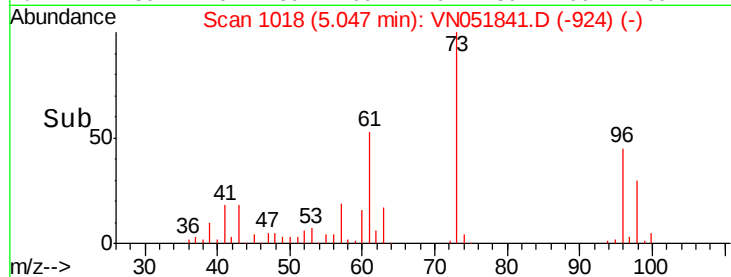
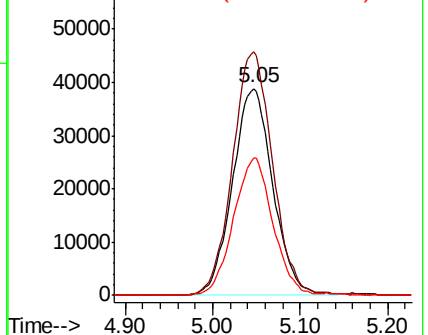


Abundance

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: 18.054 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Tgt Ion: 45 Resp: 292609

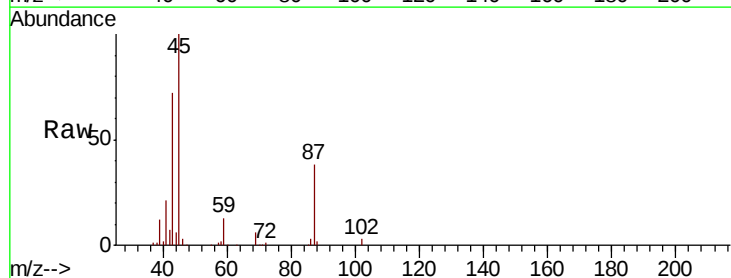
Ion Ratio Lower Upper

45 100

43 69.8 45.9 68.9#

87 37.1 22.7 34.1#

59 12.7 9.3 13.9



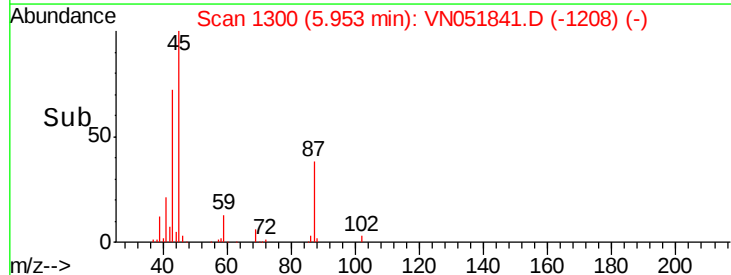
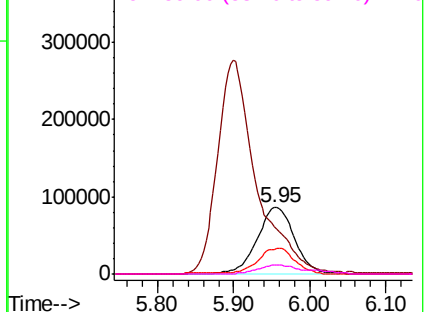
Abundance

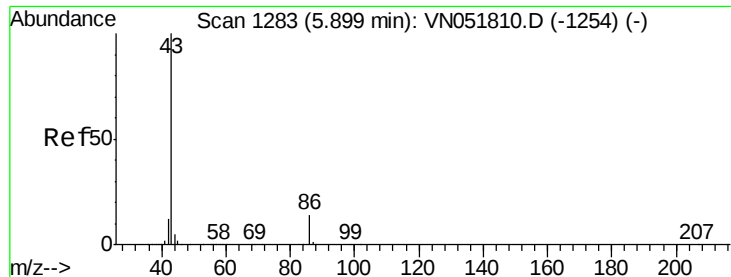
Ion 45.00 (44.70 to 45.70): VN0

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: 83.198 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

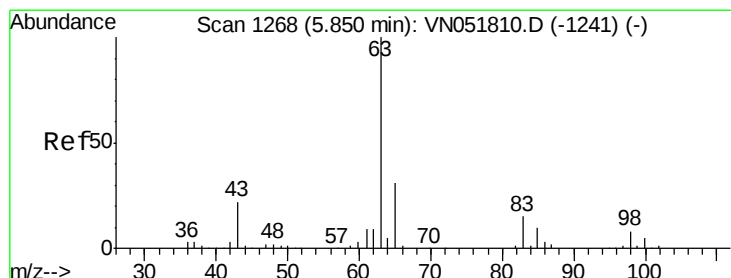
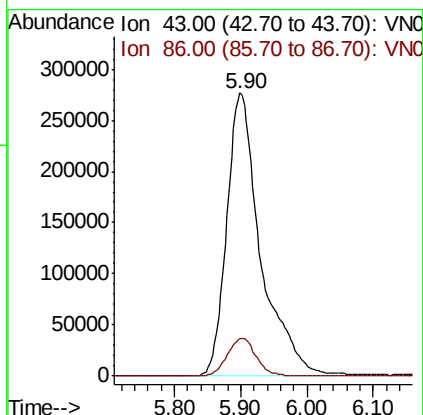
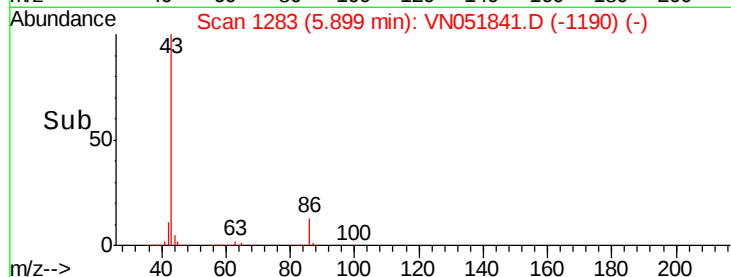
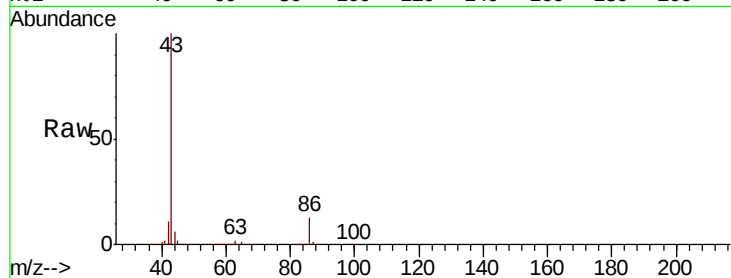
VN1012WBS02

Tot Ion: 43 Resp: 986500

Ion Ratio Lower Upper

43 100

86 13.2 8.7 13.1#



#24

1,1-Dichloroethane

Concen: 18.526 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

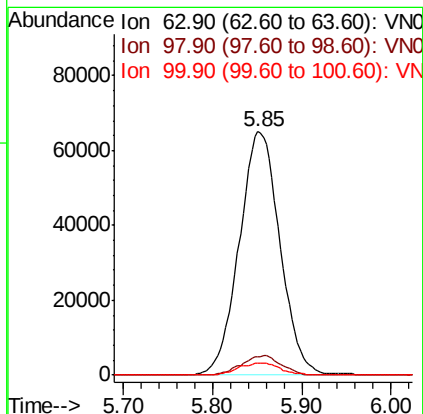
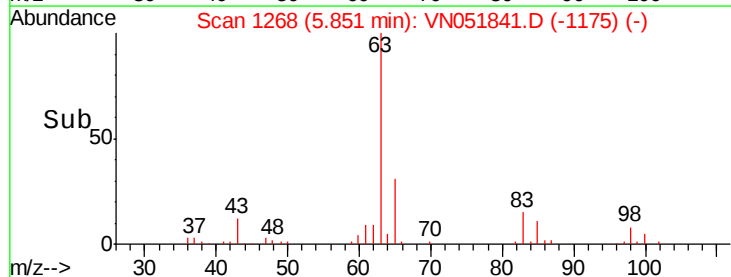
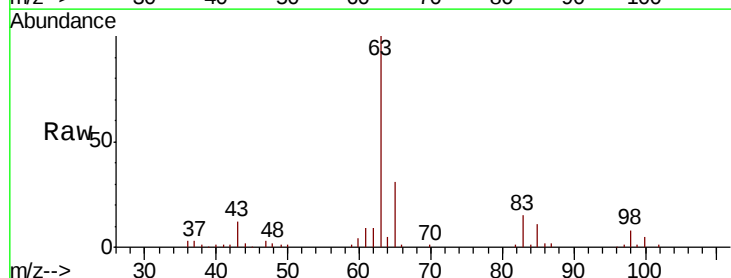
Tgt Ion: 63 Resp: 206281

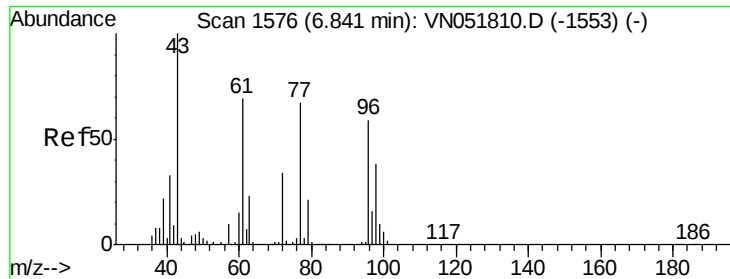
Ion Ratio Lower Upper

63 100

98 7.6 3.3 9.8

100 4.9 2.1 6.5

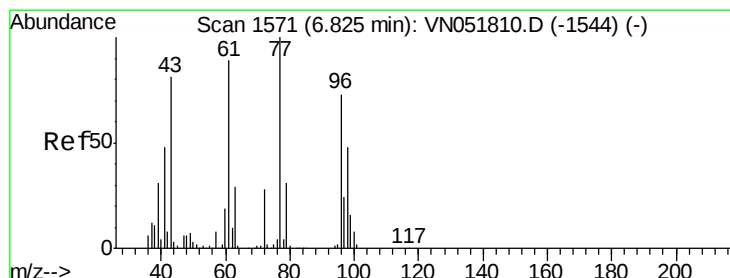
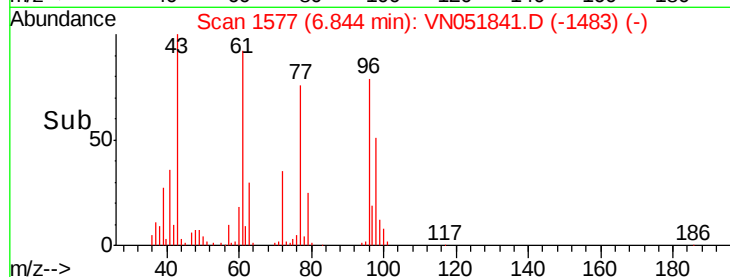
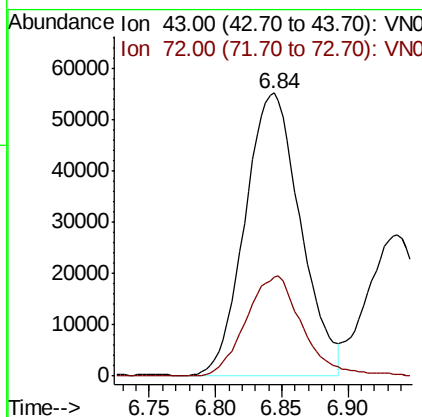
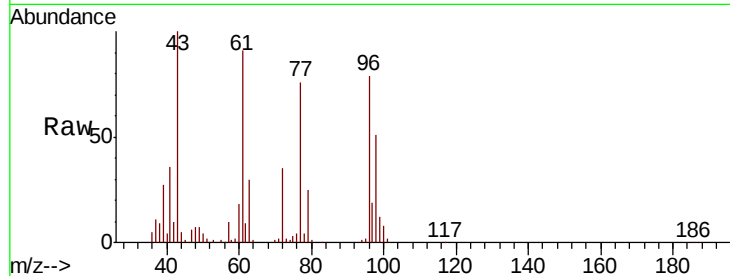




#25
2-Butanone
Concen: 67.656 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

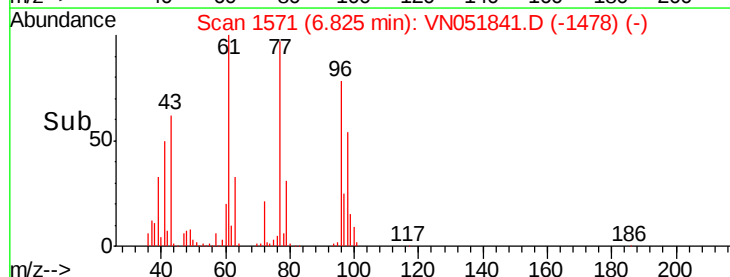
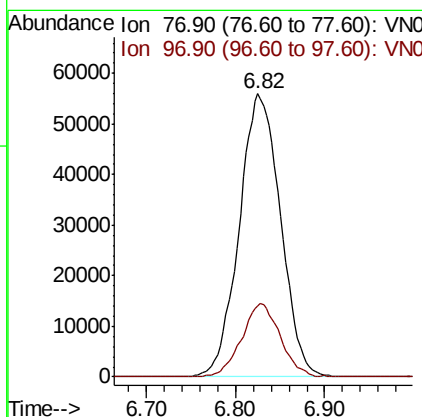
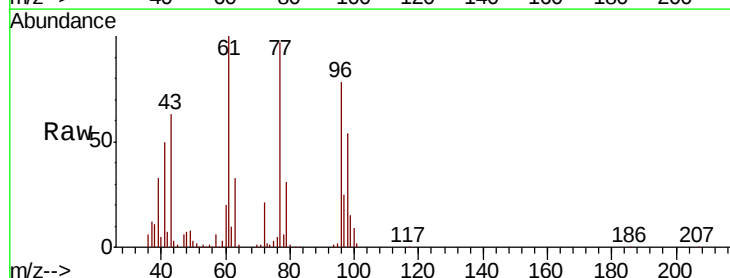
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

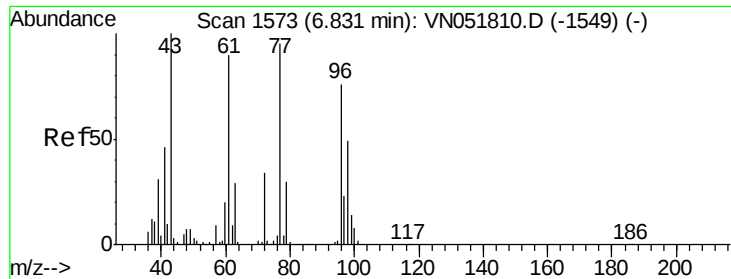
Tot Ion: 43 Resp: 160393
Ion Ratio Lower Upper
43 100
72 35.0 22.3 33.5#



#26
2,2-Dichloropropane
Concen: 15.954 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 77 Resp: 179864
Ion Ratio Lower Upper
77 100
97 24.2 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 18.848 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

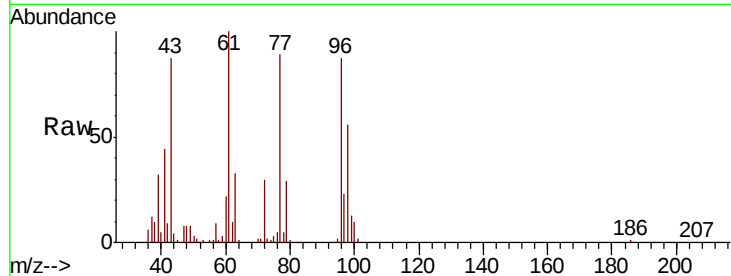
Tot Ion: 96 Resp: 149026

Ion Ratio Lower Upper

96 100

61 120.0 0.0 283.4

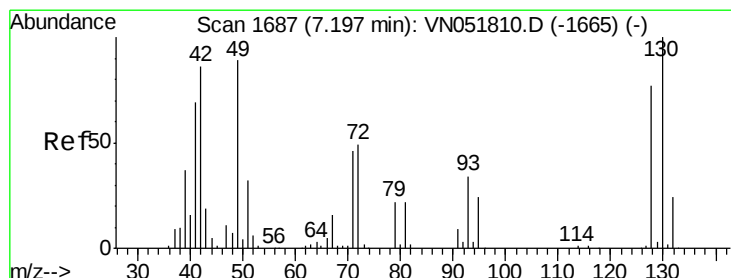
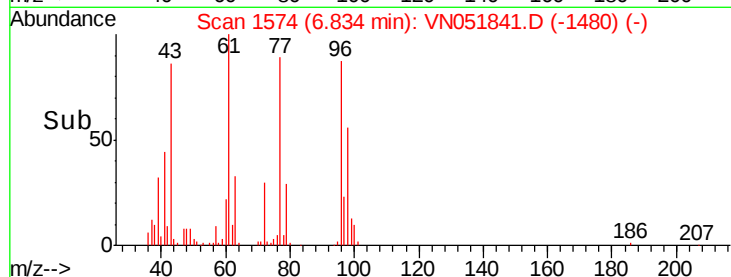
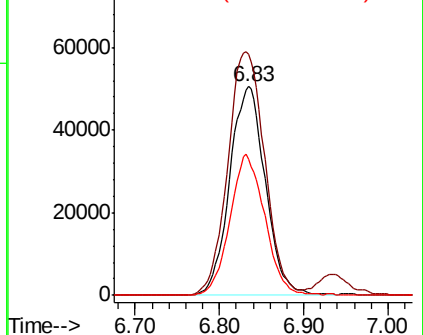
98 65.6 0.0 129.8



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: 18.476 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

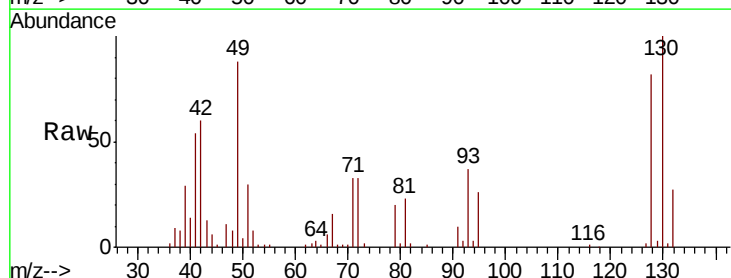
Tgt Ion: 49 Resp: 86316

Ion Ratio Lower Upper

49 100

129 2.8 0.0 4.2

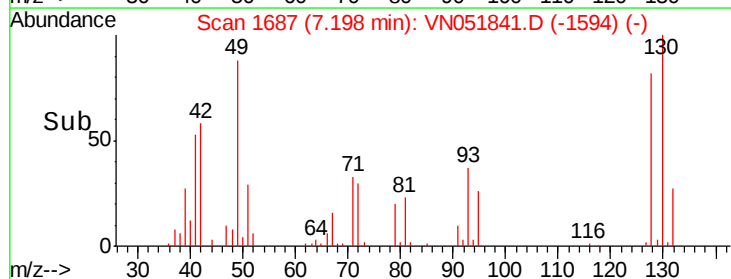
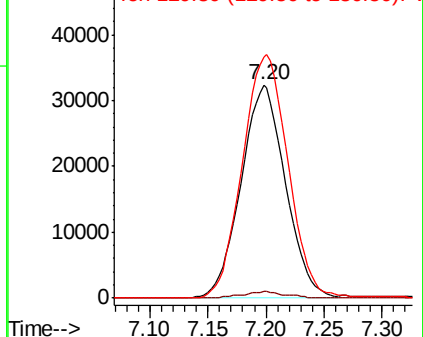
130 117.4 67.1 100.7#

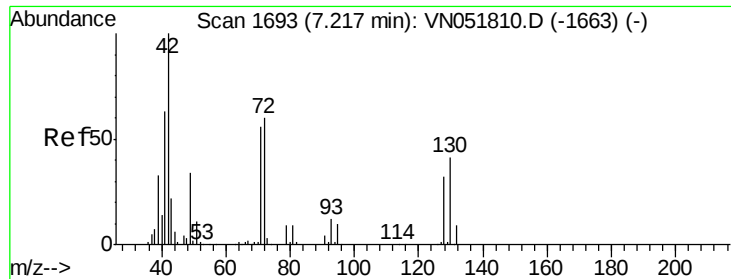


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

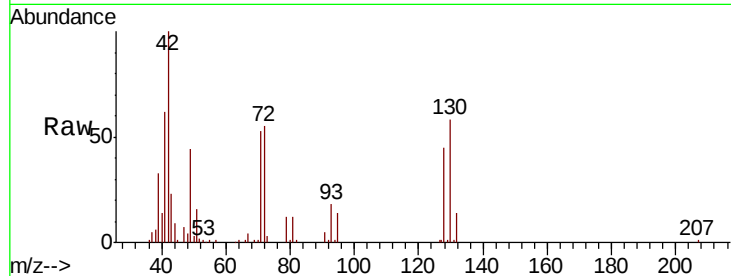




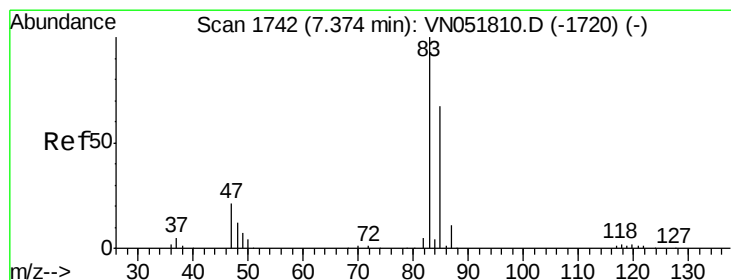
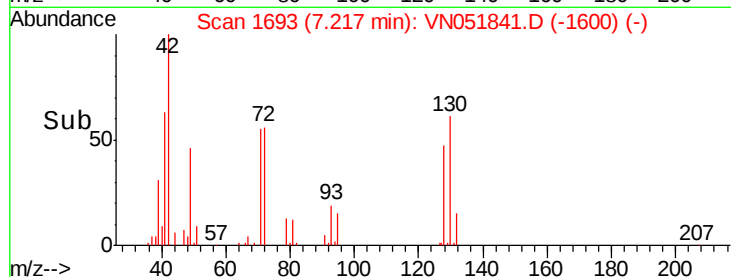
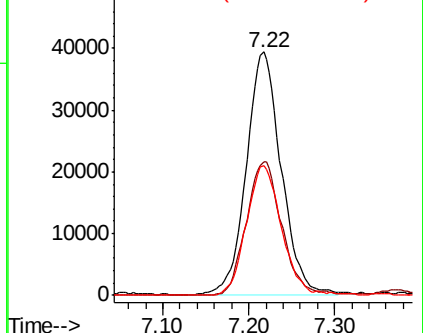
#29
Tetrahydrofuran
Concen: 79.455 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Instrument :
MSVOA_N
ClientSampled :
VN1012WBS02

Tot Ion: 42 Resp: 112252
Ion Ratio Lower Upper
42 100
72 54.9 35.5 53.3#
71 52.8 33.7 50.5#

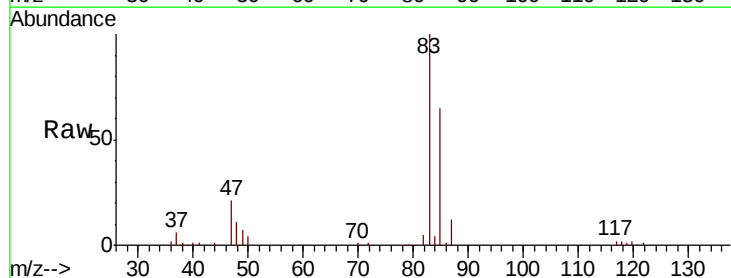


Abundance Ion 42.00 (41.70 to 42.70): VNC
Ion 72.00 (71.70 to 72.70): VNC
Ion 71.00 (70.70 to 71.70): VNC

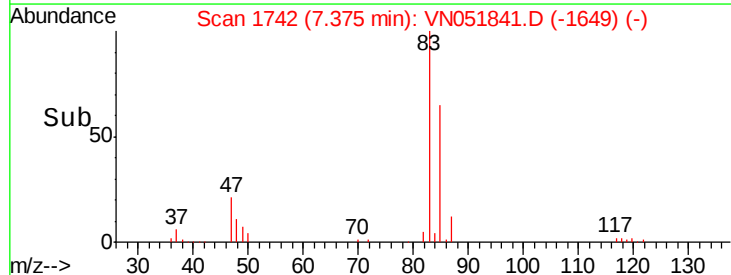
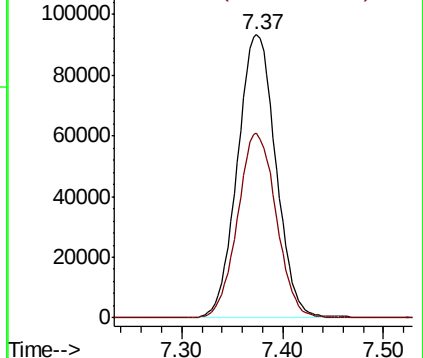


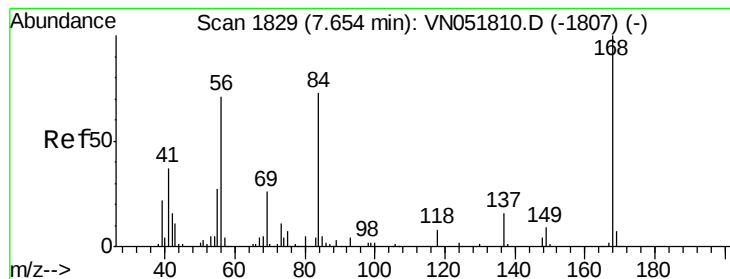
#30
Chloroform
Concen: 18.495 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 83 Resp: 246231
Ion Ratio Lower Upper
83 100
85 65.2 52.2 78.4



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





#31

Cyclohexane

Concen: 17.736 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

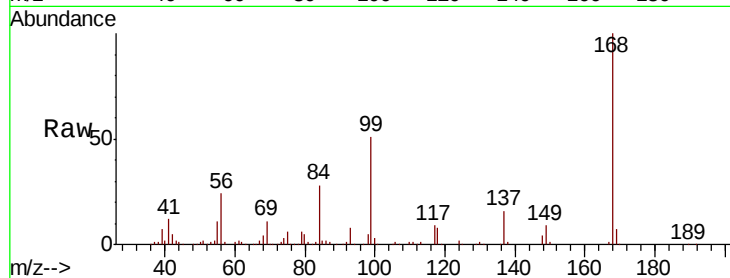
Tot Ion: 56 Resp: 179367

Ion Ratio Lower Upper

56 100

69 43.4 26.2 39.4#

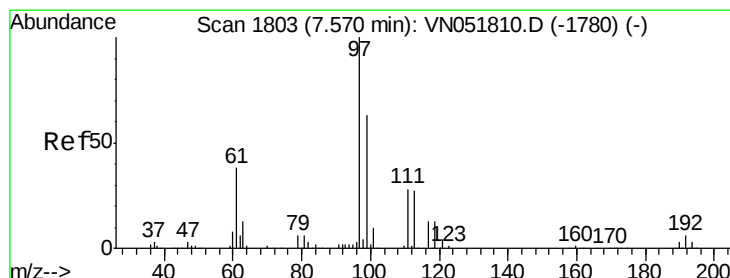
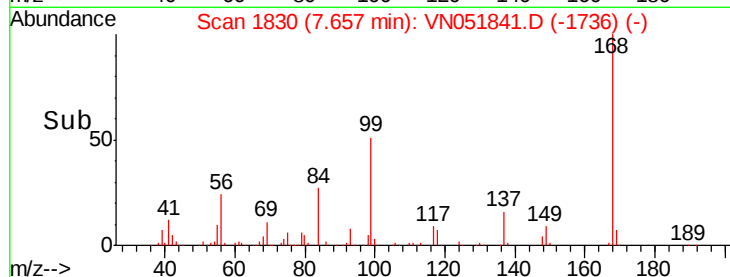
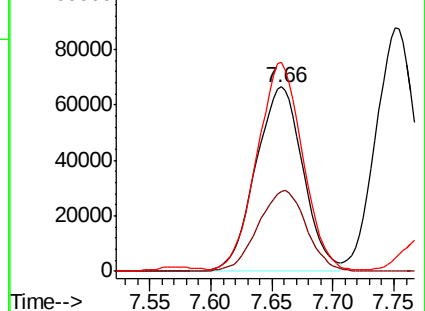
84 111.4 68.3 102.5#



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: 18.210 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

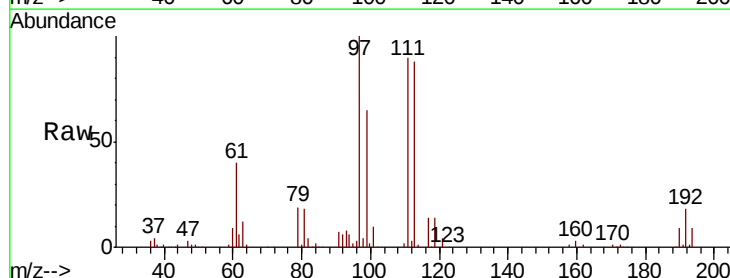
Tgt Ion: 97 Resp: 227614

Ion Ratio Lower Upper

97 100

99 65.1 51.8 77.6

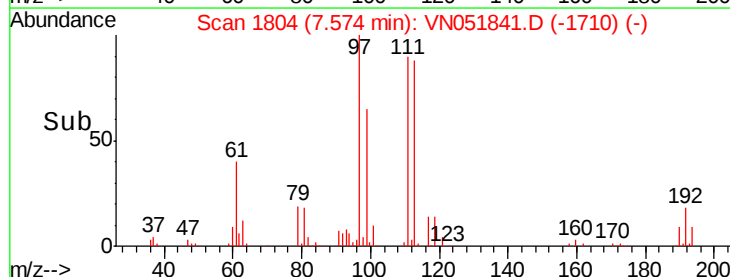
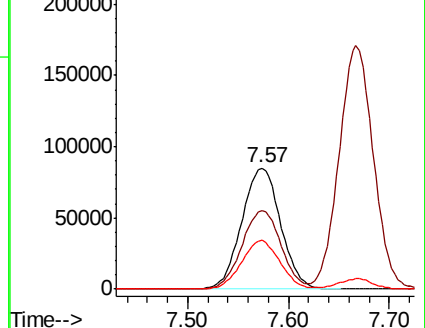
61 39.7 34.9 52.3

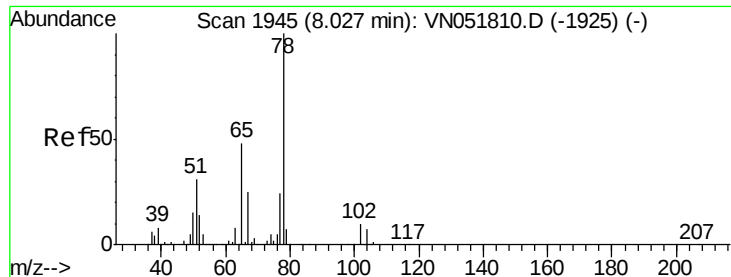


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

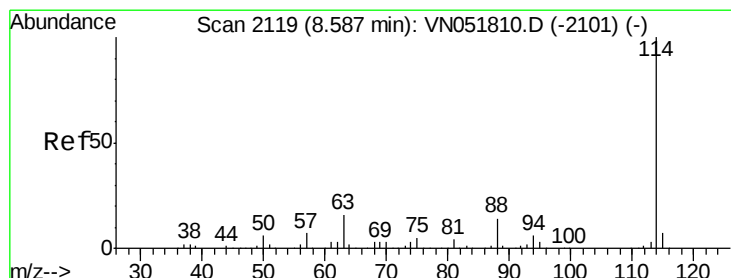
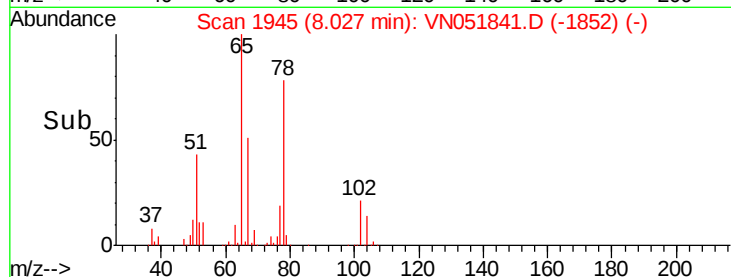
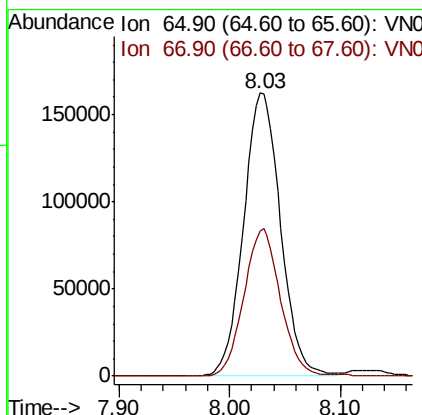
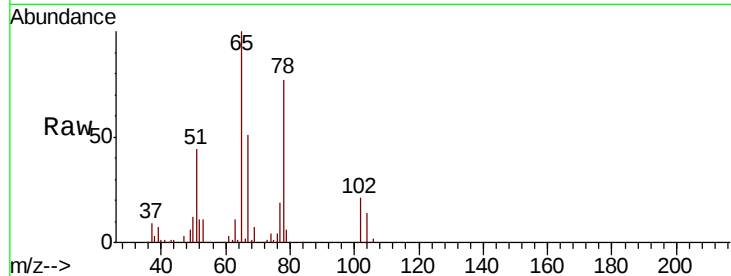




#33
 1,2-Dichloroethane-d4
 Concen: 18.210 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

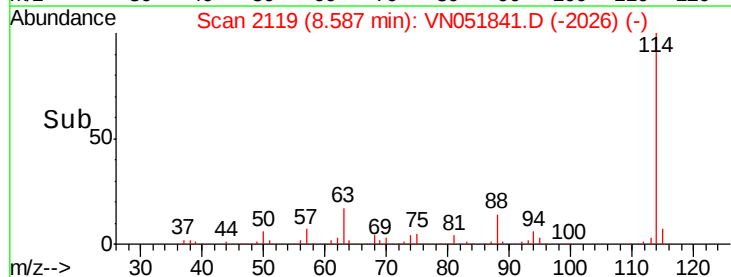
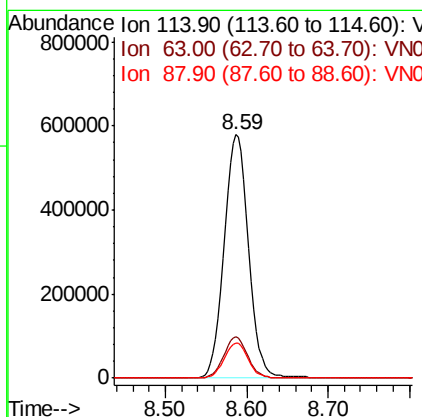
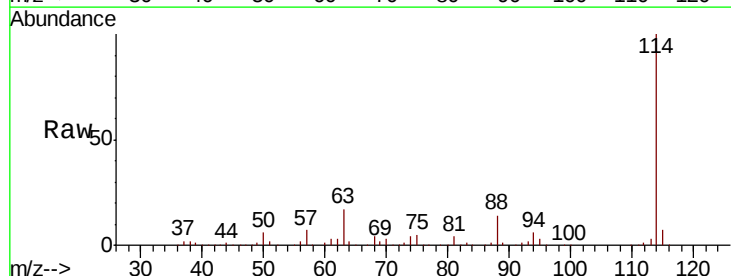
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

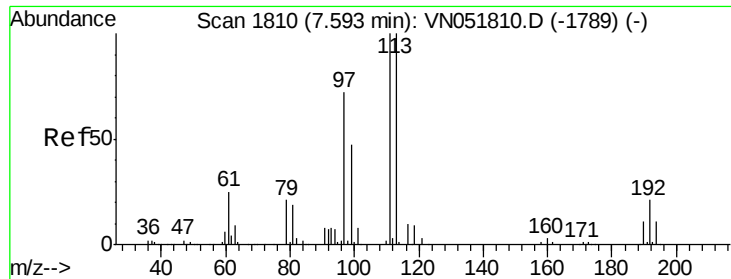
Tot Ion: 65 Resp: 377424
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion: 114 Resp: 1228576
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 38.6
 88 14.3 0.0 30.6

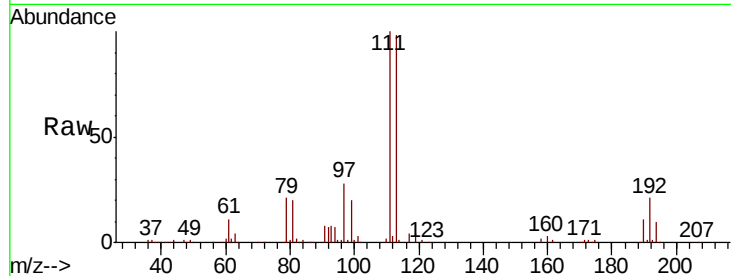




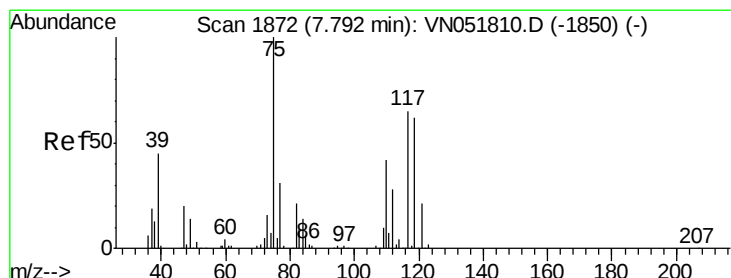
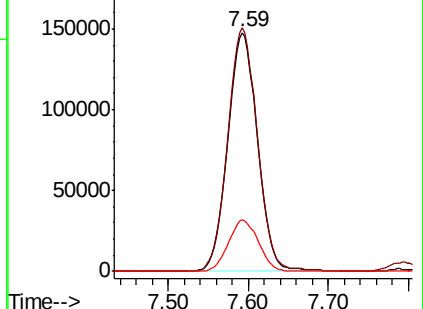
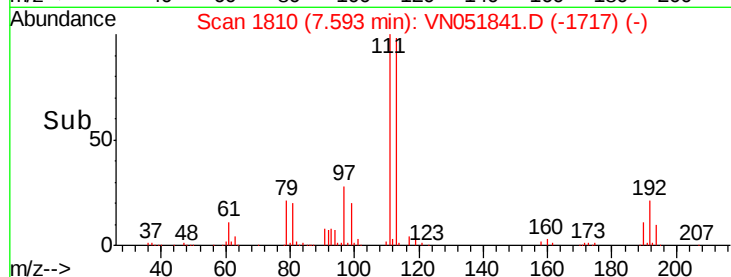
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

Tot Ion:113 Resp: 372803
Ion Ratio Lower Upper
113 100
111 101.4 82.6 123.8
192 21.6 18.0 27.0

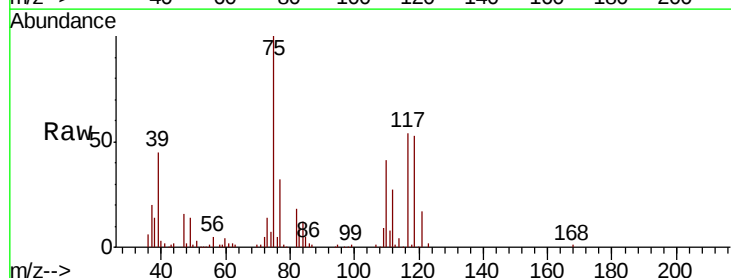


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

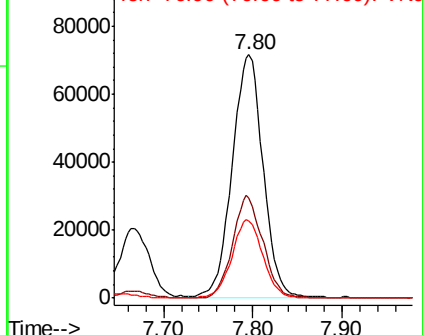
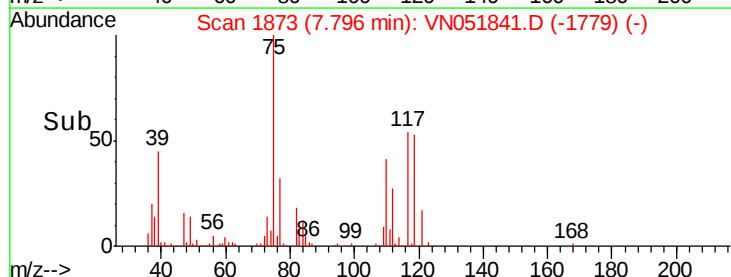


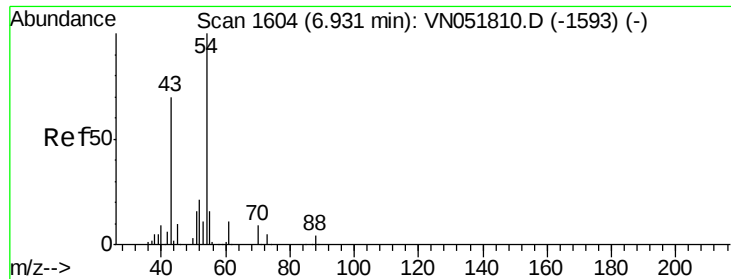
#36
1,1-Dichloropropene
Concen: 17.275 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 75 Resp: 171824
Ion Ratio Lower Upper
75 100
110 41.0 18.1 54.4
77 32.3 24.8 37.2



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

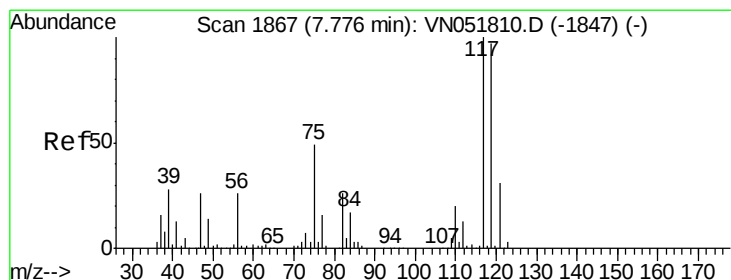
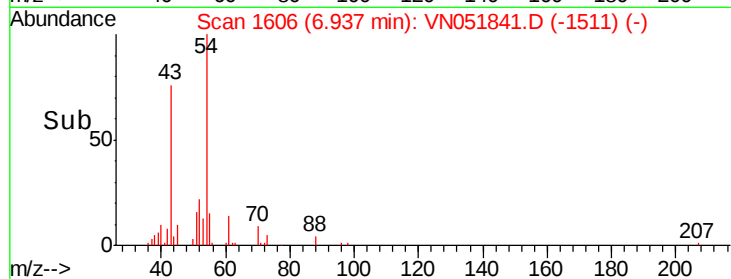
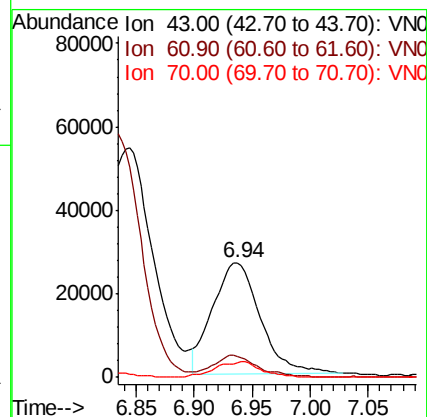
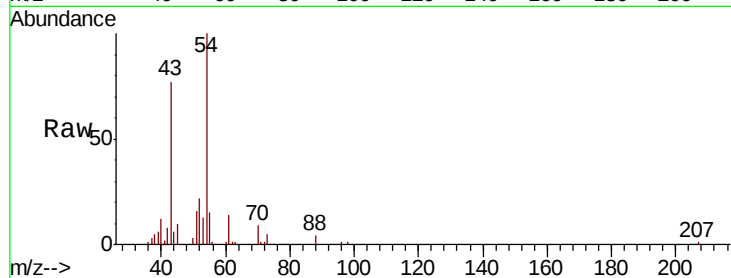




#37
Ethyl Acetate
Concen: 15.025 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

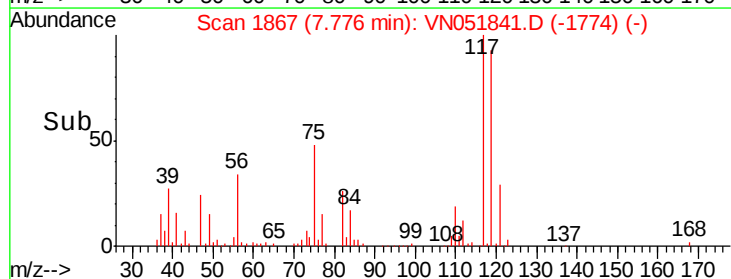
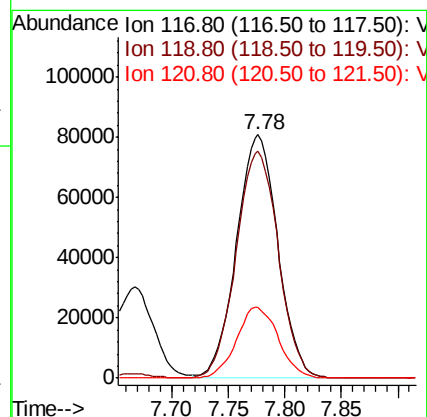
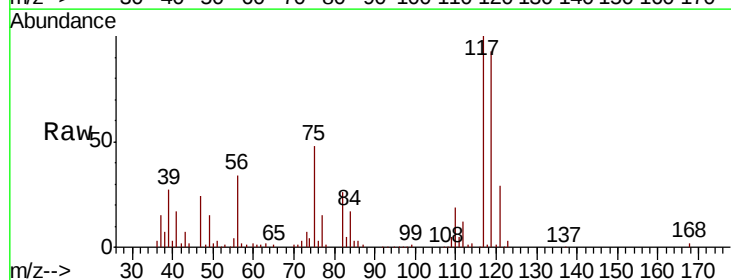
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

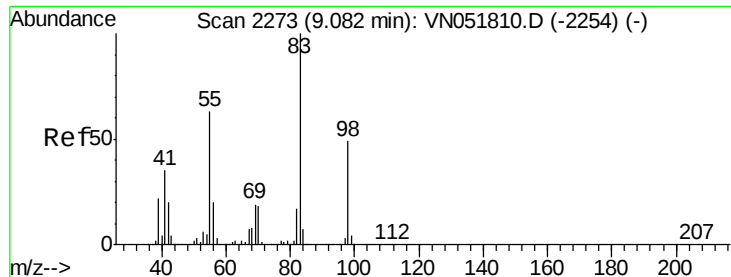
Tot Ion: 43 Resp: 76729
Ion Ratio Lower Upper
43 100
61 11.2 12.0 18.0#
70 13.6 8.6 13.0#



#38
Carbon Tetrachloride
Concen: 17.799 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 117 Resp: 205210
Ion Ratio Lower Upper
117 100
119 93.1 76.3 114.5
121 28.8 24.6 36.8

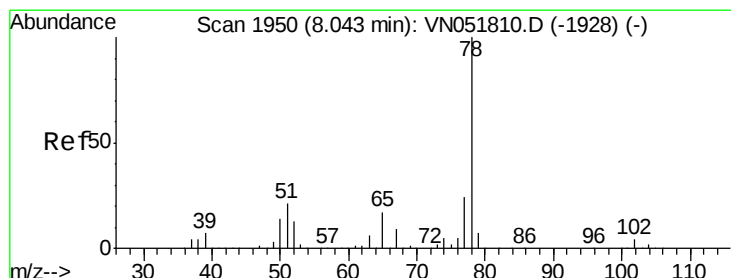
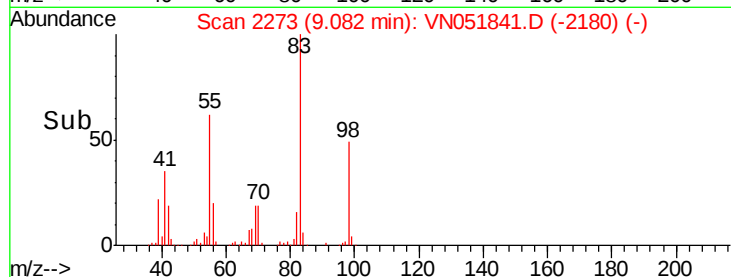
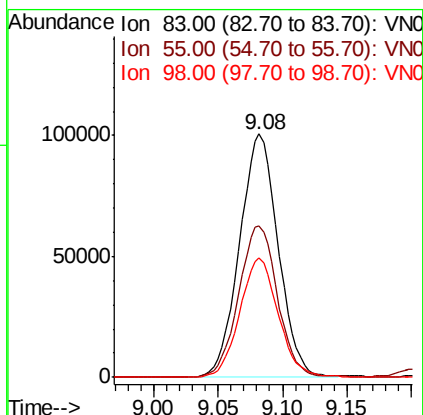
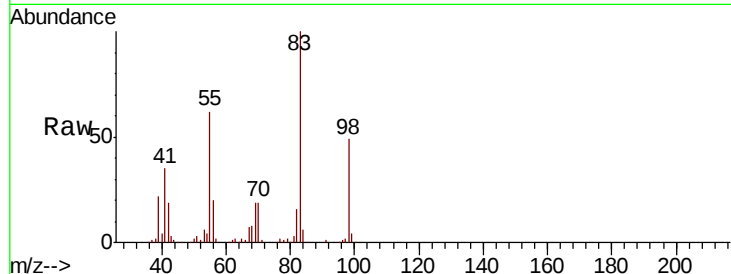




#39
Methvlcvclohexane
Concen: 17.196 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

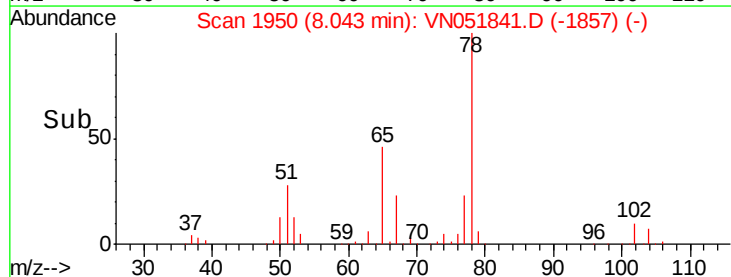
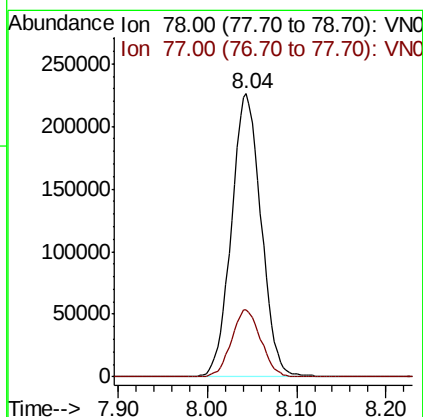
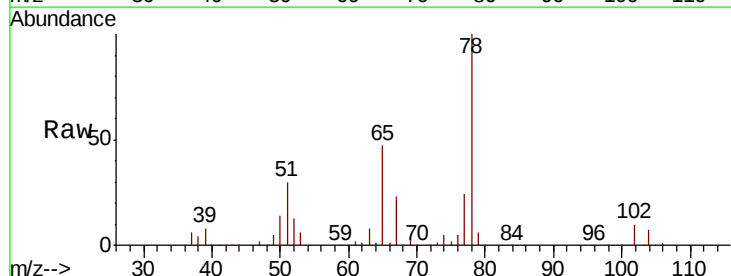
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

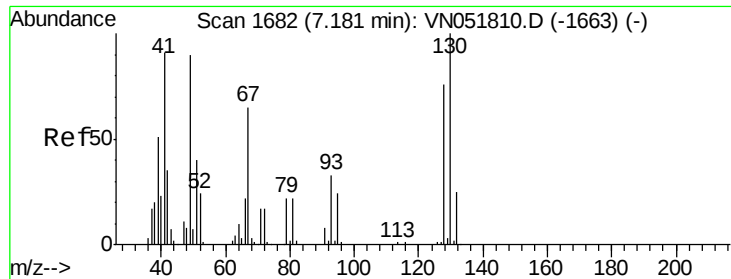
Tot Ion	83	Resp	210106
Ion Ratio	Lower	Upper	
83	100		
55	62.1	61.0	91.4
98	48.9	37.5	56.3



#40
Benzene
Concen: 18.228 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion	78	Resp	523008
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.0	28.4

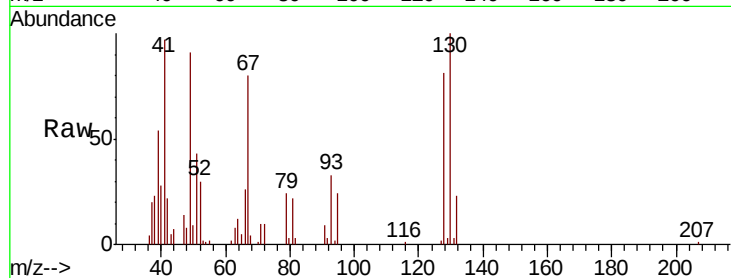




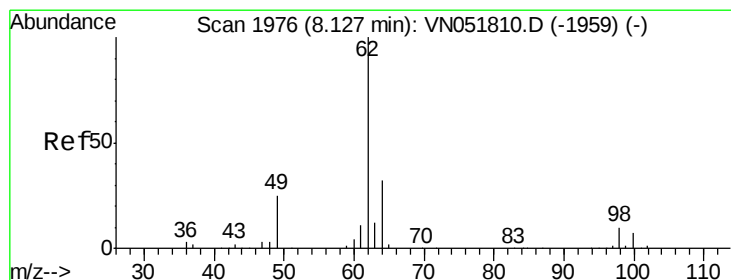
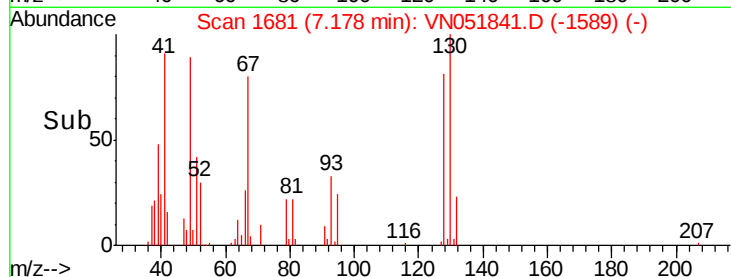
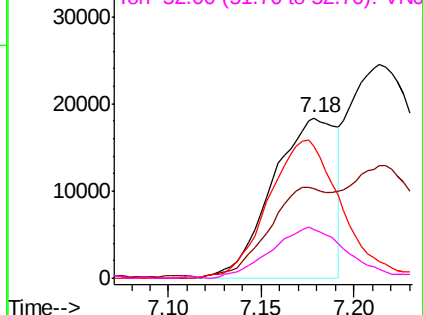
#41
Methacrylonitrile
Concen: 17.870 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

Tot Ion: 41 Resp: 43995
Ion Ratio Lower Upper
41 100
39 50.1 45.4 68.0
67 99.2 70.6 106.0
52 38.2 27.1 40.7

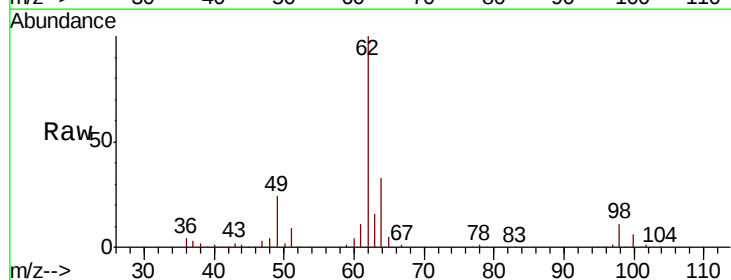


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

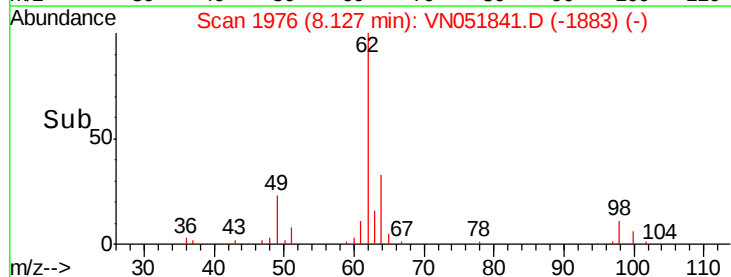
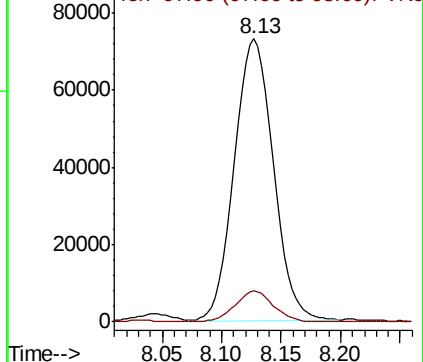


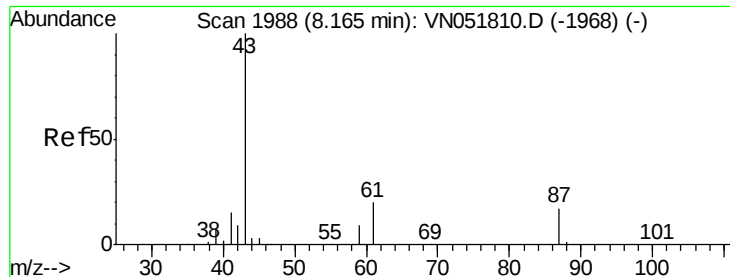
#42
1,2-Dichloroethane
Concen: 17.696 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 62 Resp: 166449
Ion Ratio Lower Upper
62 100
98 10.6 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: 14.547 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

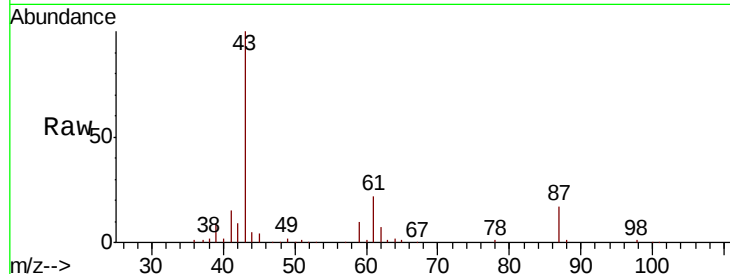
Tot Ion: 43 Resp: 152340

Ion Ratio Lower Upper

43 100

61 22.0 17.5 26.3

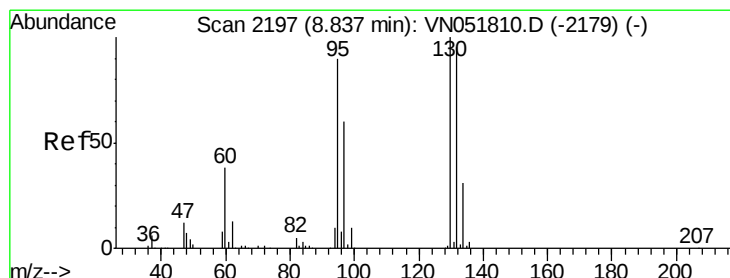
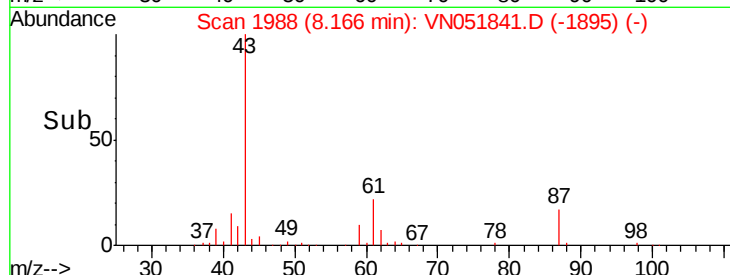
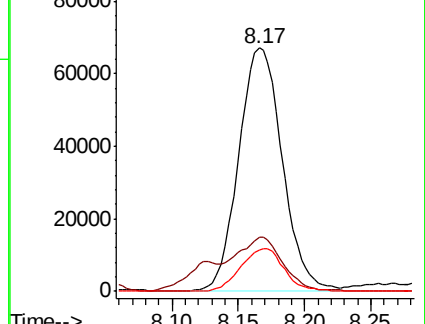
87 17.5 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VN051841.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN051841.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN051841.D (-1968) (-)



#44

Trichloroethene

Concen: 18.296 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051841.D

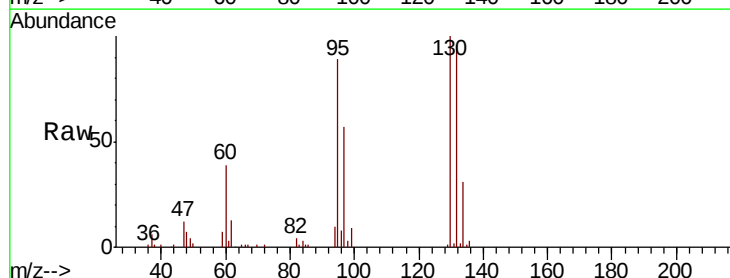
Acq: 12 Oct 2018 19:32

Tgt Ion: 130 Resp: 159814

Ion Ratio Lower Upper

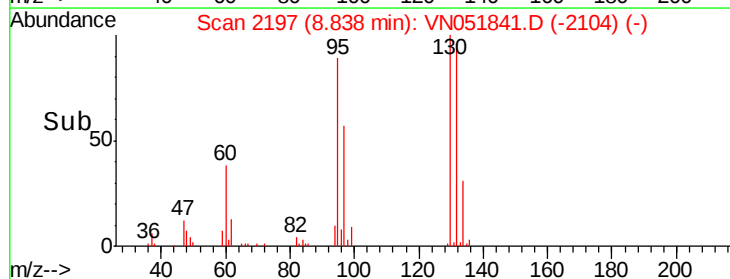
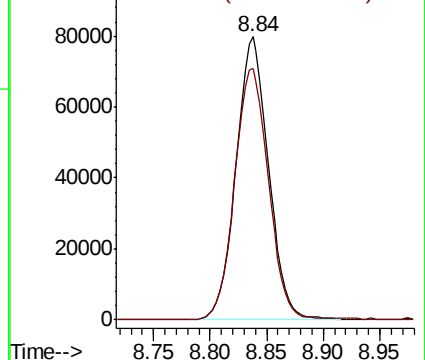
130 100

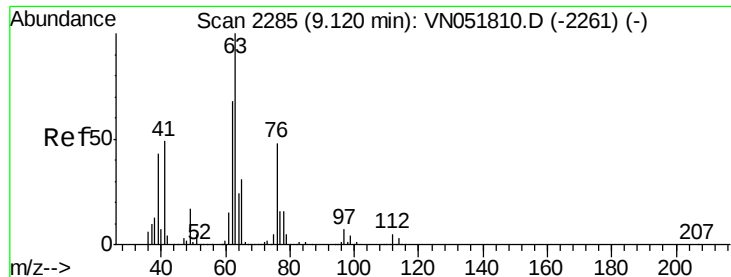
95 88.9 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): VN051841.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN051841.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 18.067 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

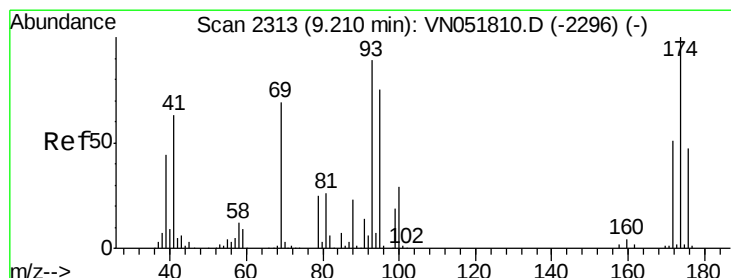
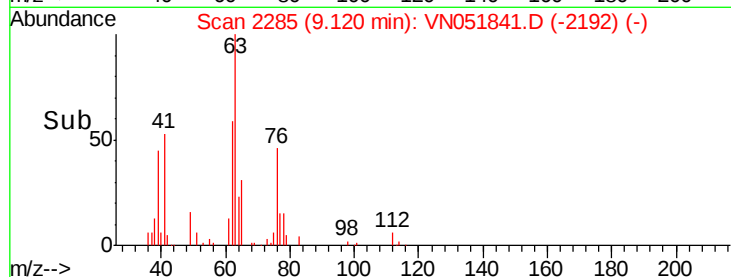
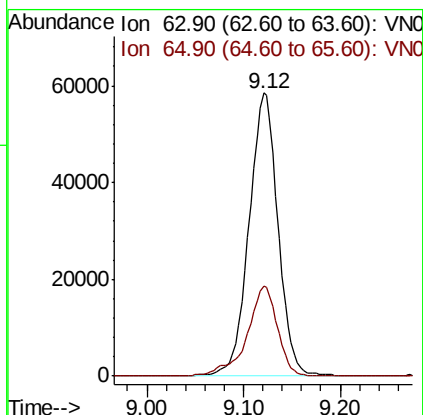
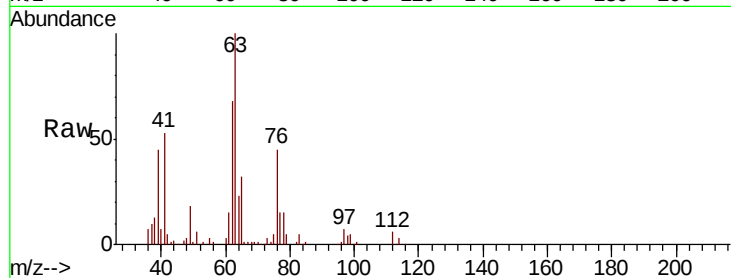
VN1012WBS02

Tot Ion: 63 Resp: 121885

Ion Ratio Lower Upper

63 100

65 32.0 25.0 37.6



#46

Dibromomethane

Concen: 16.998 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

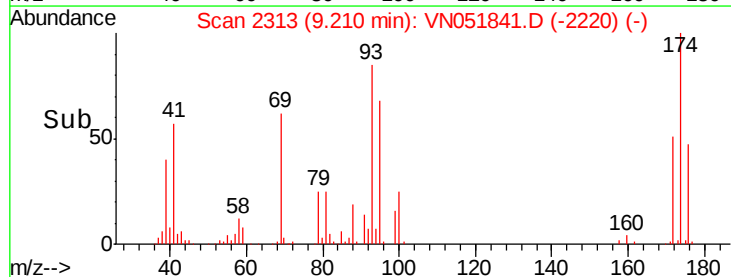
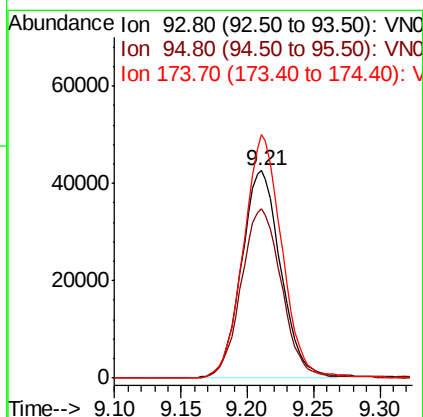
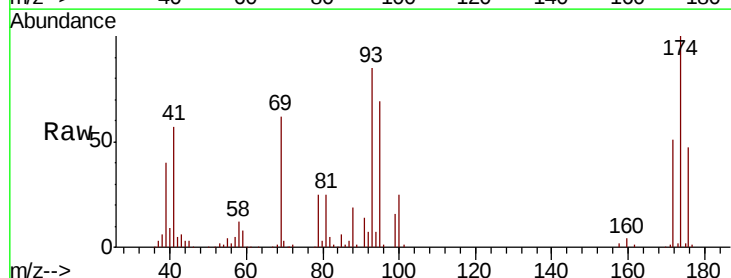
Tgt Ion: 93 Resp: 88001

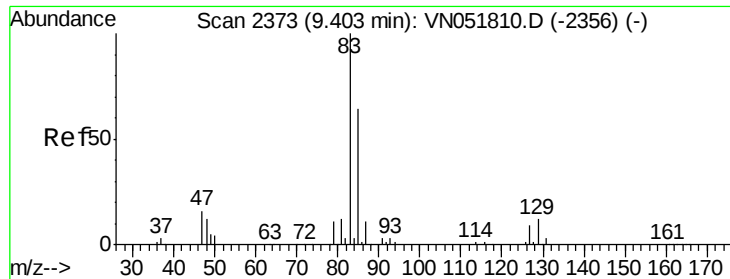
Ion Ratio Lower Upper

93 100

95 83.4 66.7 100.1

174 114.3 89.8 134.6





#47

Bromodichloromethane

Concen: 17.141 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

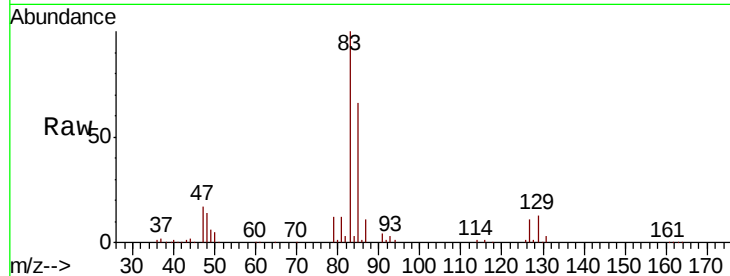
Tot Ion: 83 Resp: 177301

Ion Ratio Lower Upper

83 100

85 66.1 52.6 78.8

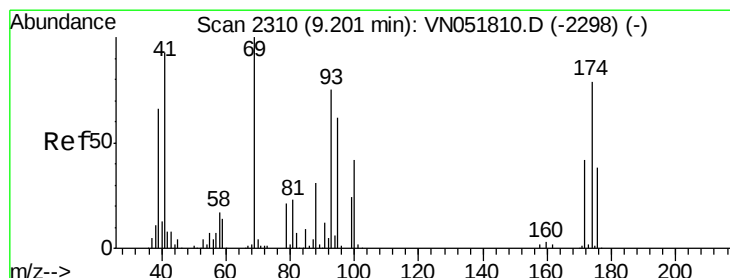
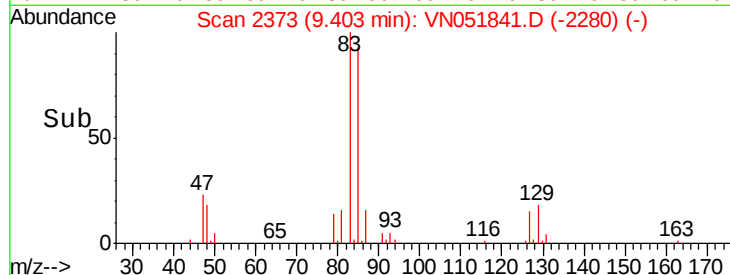
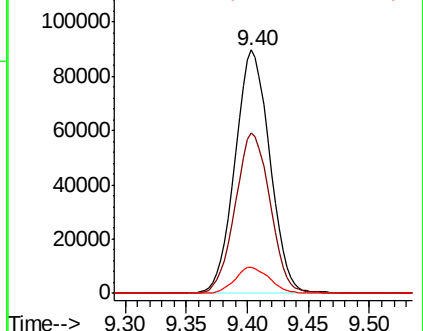
127 10.7 7.2 10.8



Abundance Ion 82.90 (82.60 to 83.60): VN051841.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN051841.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN051841.D (-2356) (-)



#48

Methyl methacrylate

Concen: 15.433 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

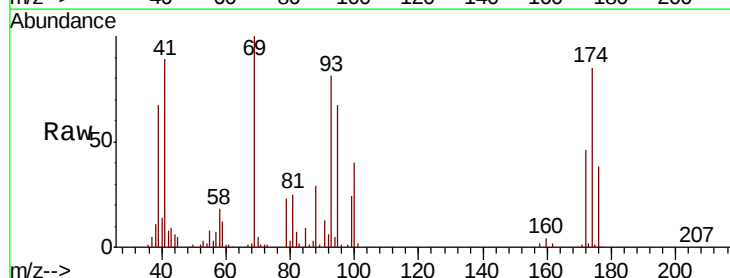
Tgt Ion: 41 Resp: 70205

Ion Ratio Lower Upper

41 100

69 114.3 74.7 112.1#

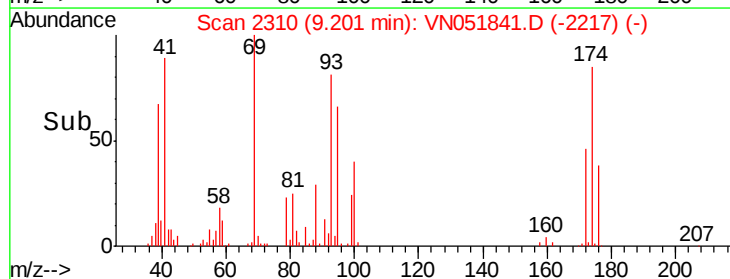
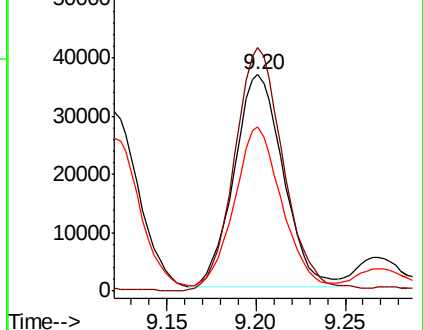
39 75.9 42.2 63.2#

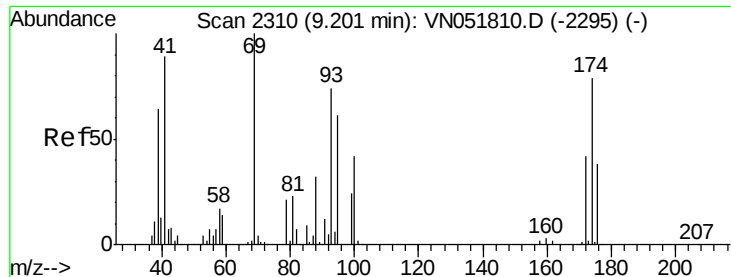


Abundance Ion 41.00 (40.70 to 41.70): VN051841.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051841.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051841.D (-2217) (-)





#49

1,4-Dioxane

Concen: 313.347 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

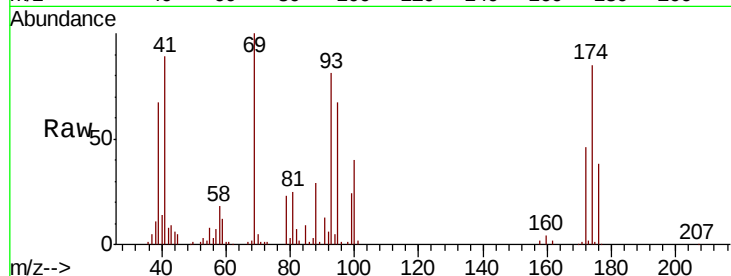
Tot Ion: 88 Resp: 24835

Ion Ratio Lower Upper

88 100

43 27.9 25.9 38.9

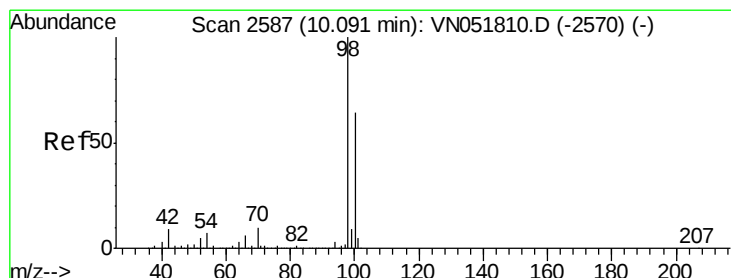
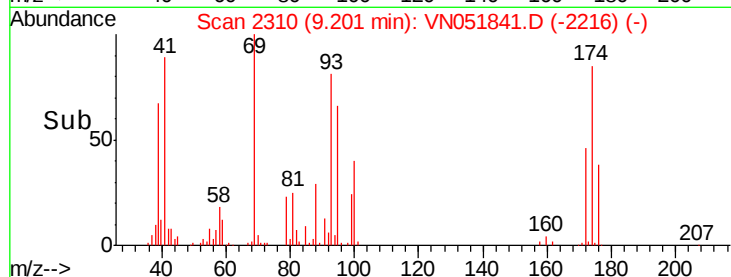
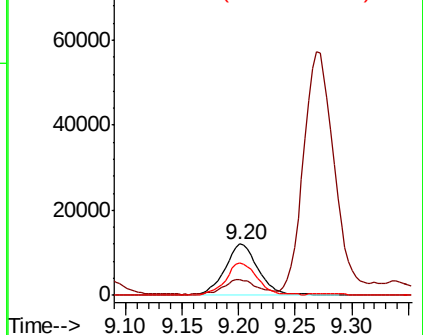
58 59.8 55.0 82.4



Abundance Ion 88.00 (87.70 to 88.70): VN051810.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN051810.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN051810.D (-2295) (-)



#50

Toluene-d8

Concen: 313.347 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051841.D

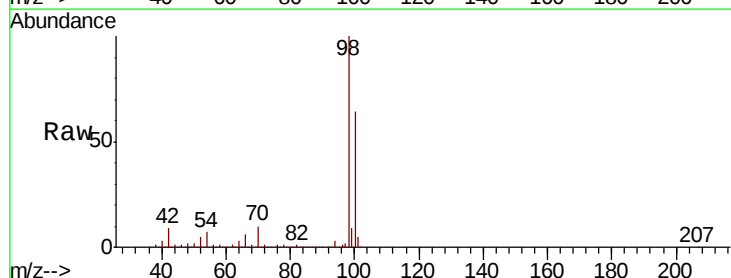
Acq: 12 Oct 2018 19:32

Tgt Ion: 98 Resp: 1336635

Ion Ratio Lower Upper

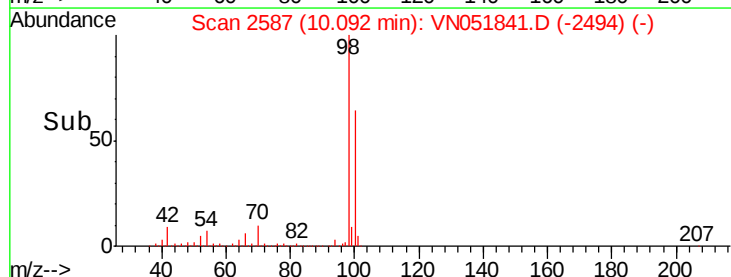
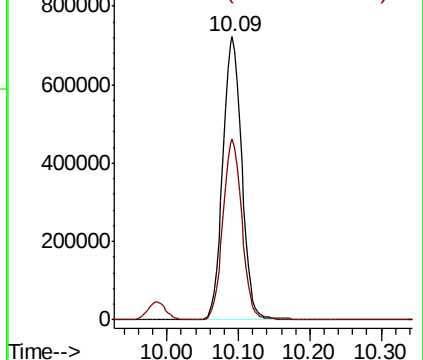
98 100

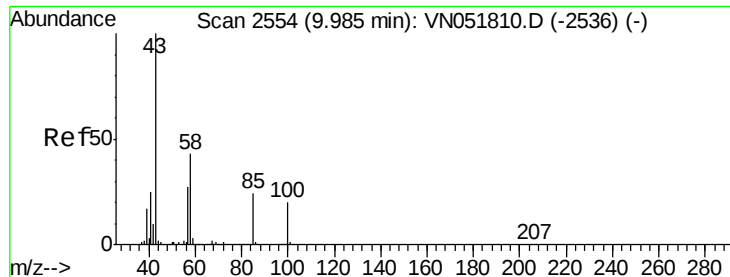
100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051810.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051810.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 76.223 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

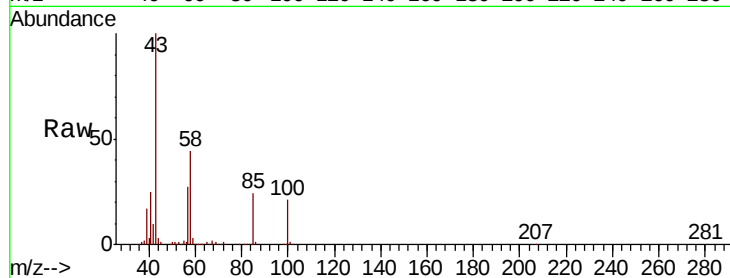
VN1012WBS02

Tot Ion: 43 Resp: 404055

Ion Ratio Lower Upper

43 100

58 42.3 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

250000

200000

150000

100000

50000

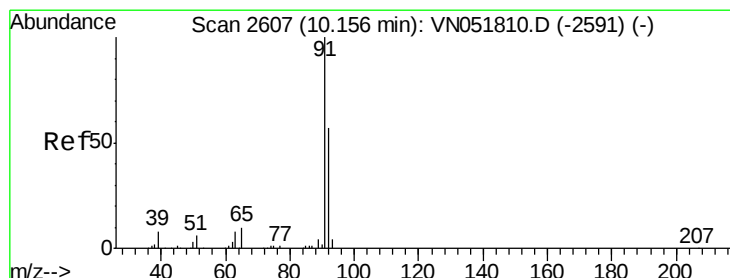
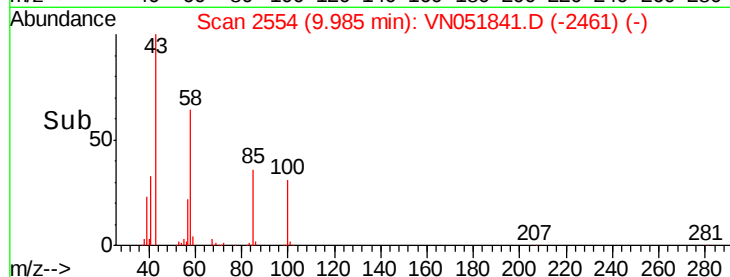
0

9.90

10.00

10.10

Time-->



#52

Toluene

Concen: 17.633 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051841.D

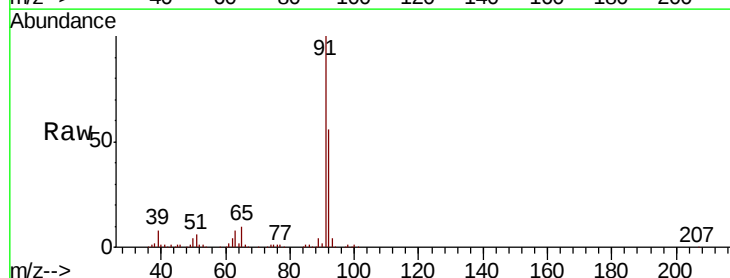
Acq: 12 Oct 2018 19:32

Tgt Ion: 92 Resp: 339719

Ion Ratio Lower Upper

92 100

91 179.3 140.6 211.0



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

300000

200000

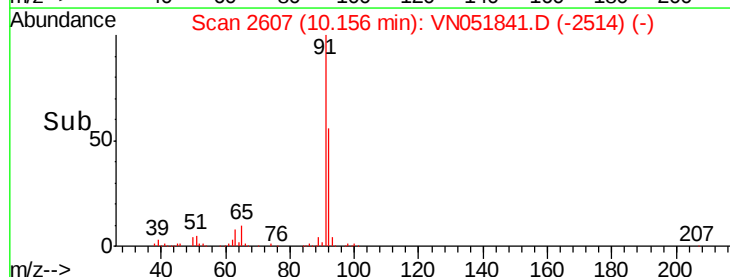
100000

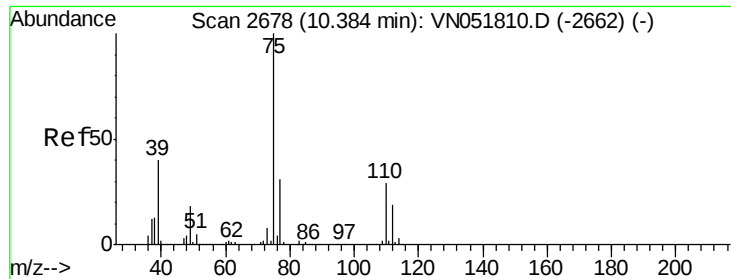
0

10.10

10.20

Time-->





#53

t-1,3-Dichloropropene

Concen: 15.512 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampled :

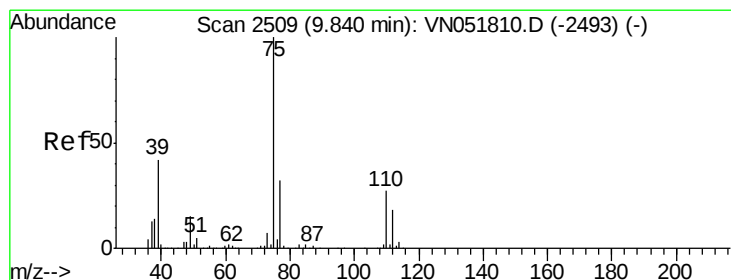
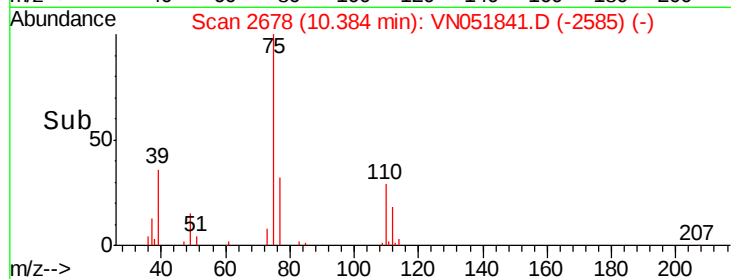
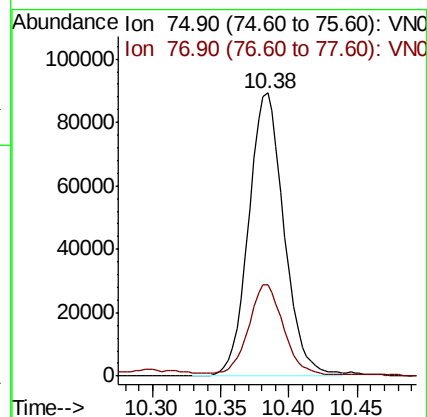
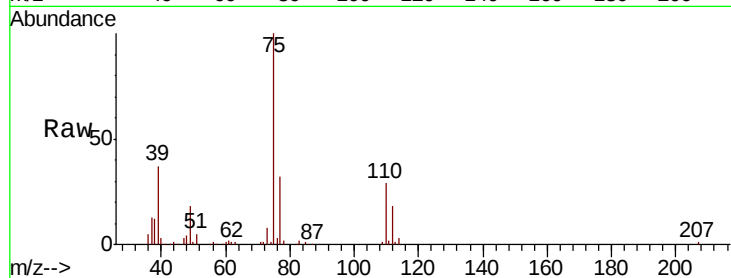
VN1012WBS02

Tot Ion: 75 Resp: 160758

Ion Ratio Lower Upper

75 100

77 31.6 25.7 38.5



#54

cis-1,3-Dichloropropene

Concen: 16.383 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

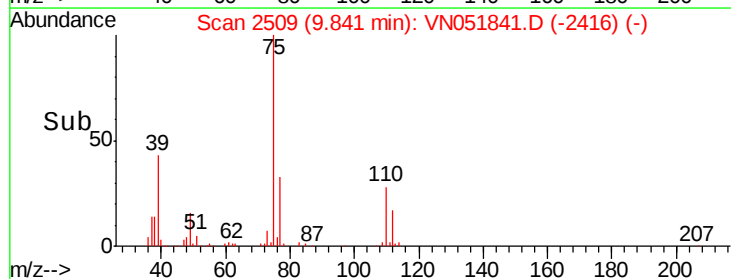
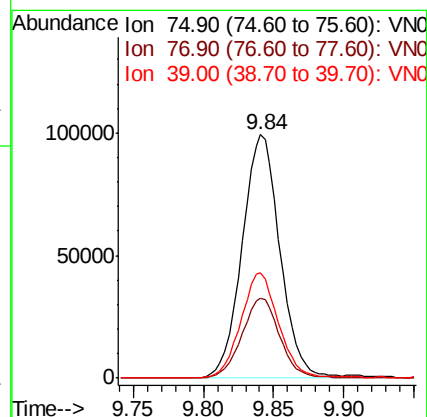
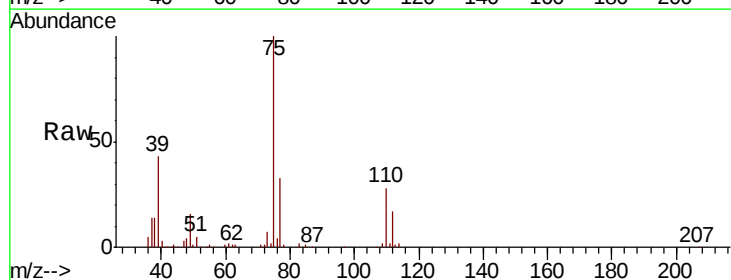
Tgt Ion: 75 Resp: 186403

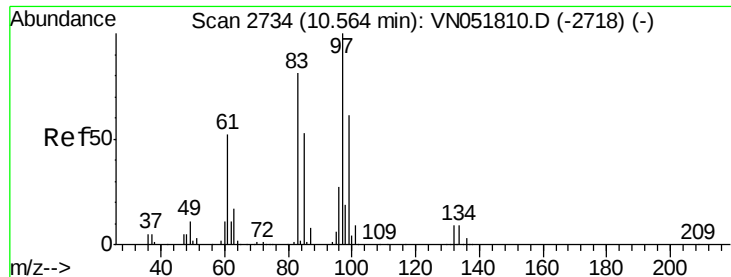
Ion Ratio Lower Upper

75 100

77 33.0 25.4 38.2

39 43.5 33.0 49.4





#55

1,1,2-Trichloroethane

Concen: 17.567 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

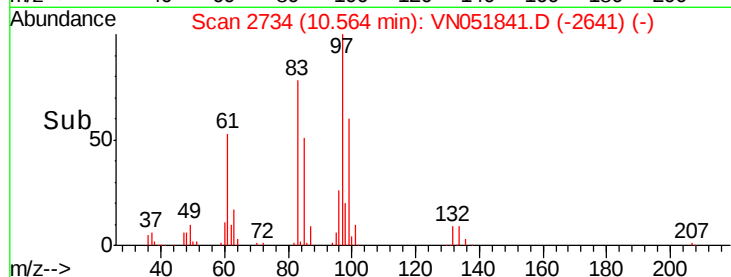
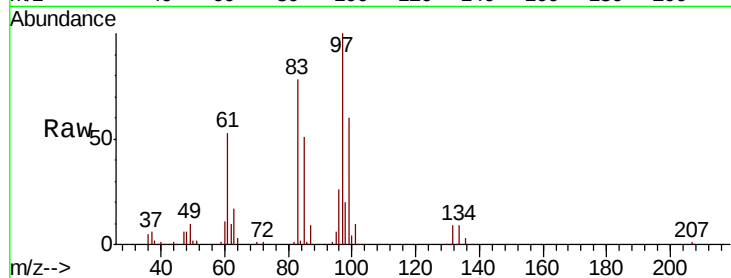
MSVOA_N

ClientSampled :

VN1012WBS02

Tot Ion: 97 Resp: 127315

Ion	Ratio	Lower	Upper
97	100		
83	77.6	69.7	104.5
85	51.1	44.5	66.7
99	60.3	50.7	76.1

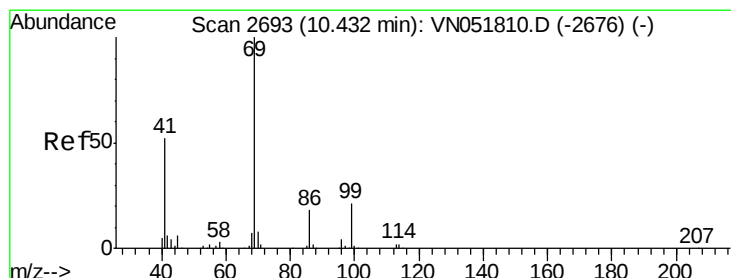


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#56

Ethyl methacrylate

Concen: 15.836 ug/l

RT: 10.43 min Scan# 2692

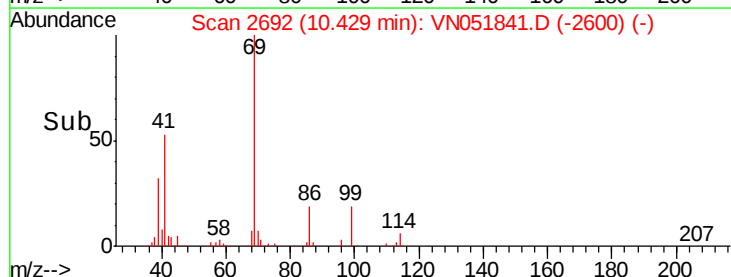
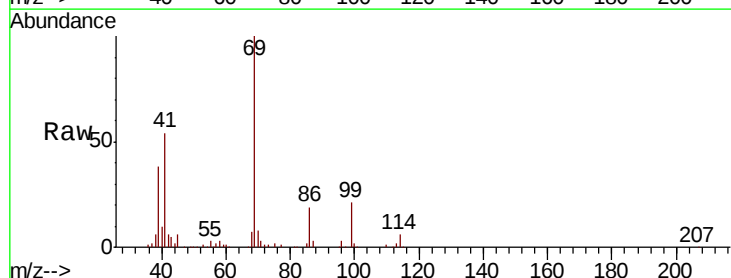
Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Tgt Ion: 69 Resp: 135159

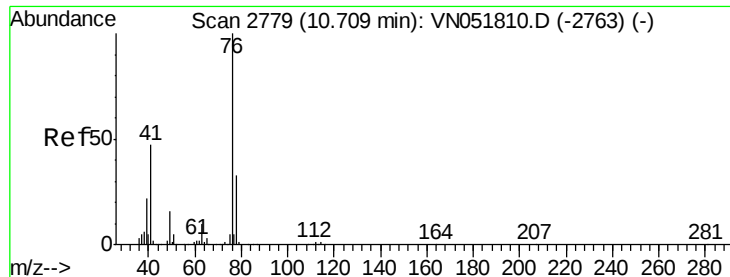
Ion	Ratio	Lower	Upper
69	100		
41	52.7	48.3	72.5
39	38.9	24.0	36.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 16.875 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

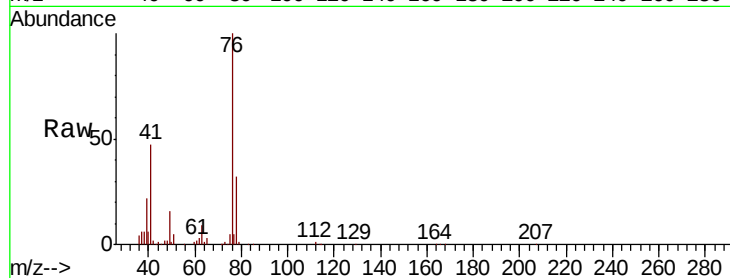
VN1012WBS02

Tot Ion: 76 Resp: 190011

Ion Ratio Lower Upper

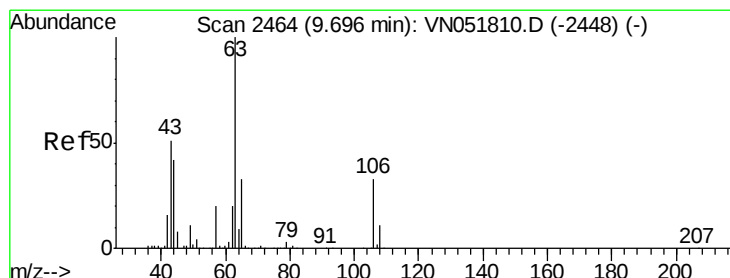
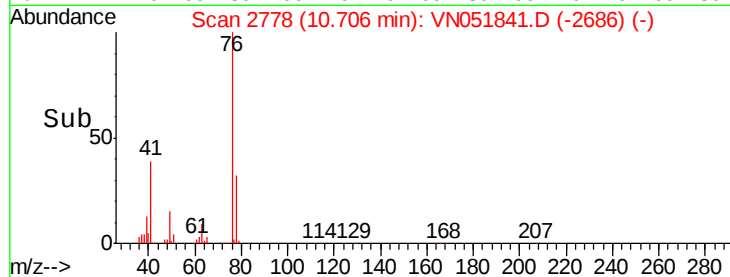
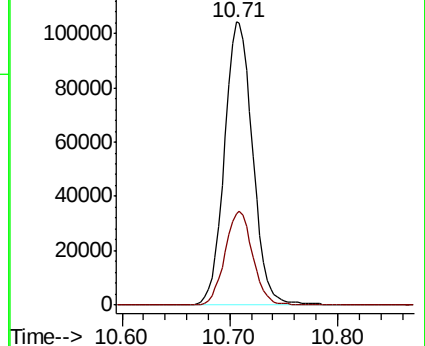
76 100

78 32.6 25.5 38.3



Abundance Ion 75.90 (75.60 to 76.60): VN051841.D (-2763) (-)

Ion 77.90 (77.60 to 78.60): VN051841.D (-2763) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 84.946 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051841.D

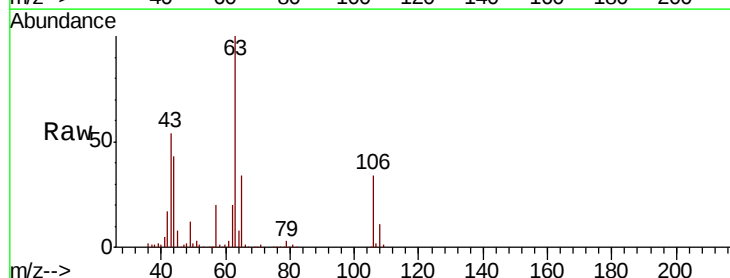
Acq: 12 Oct 2018 19:32

Tgt Ion: 63 Resp: 315700

Ion Ratio Lower Upper

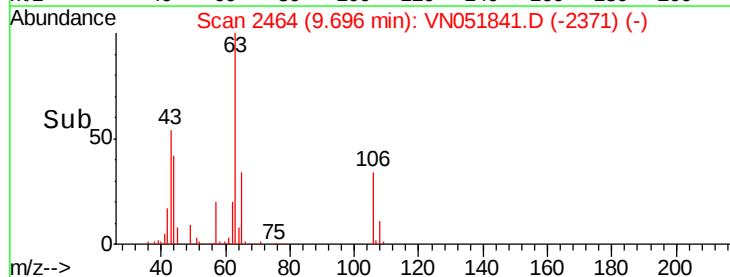
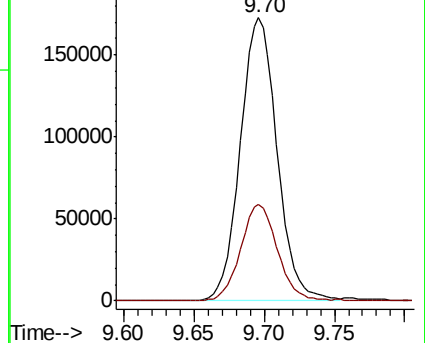
63 100

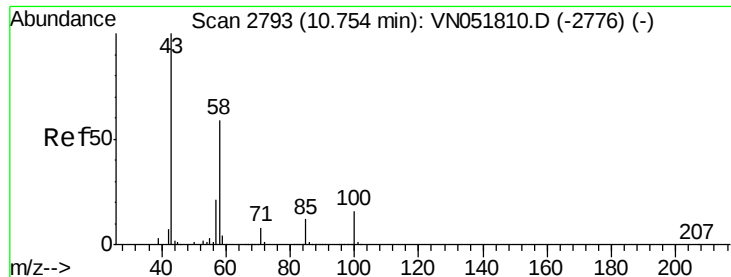
106 34.1 21.9 32.9#



Abundance Ion 62.90 (62.60 to 63.60): VN051841.D (-2371) (-)

Ion 105.90 (105.60 to 106.60): VN051841.D (-2371) (-)

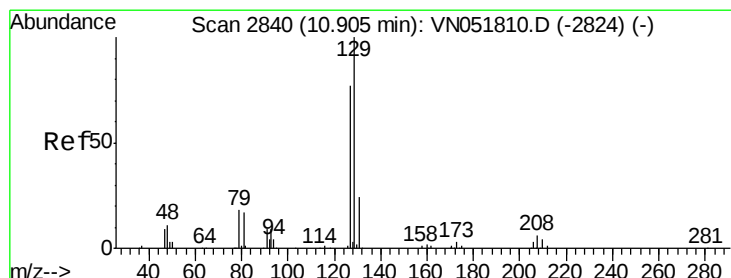
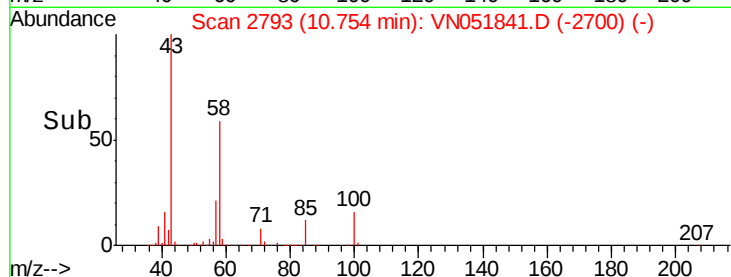
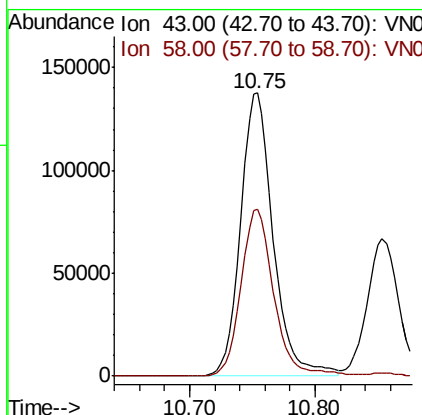
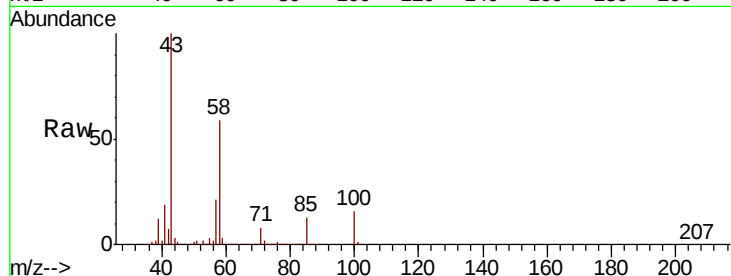




#59
2-Hexanone
Concen: 66.507 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

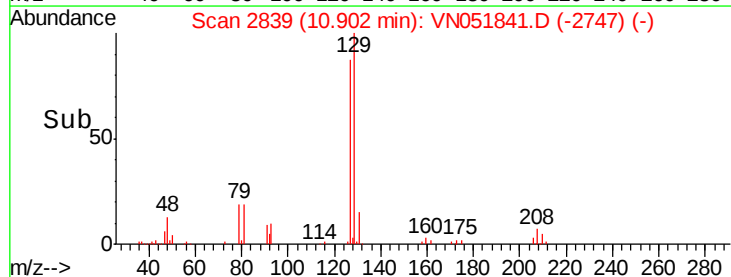
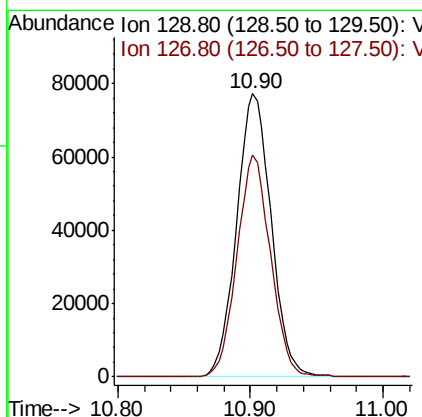
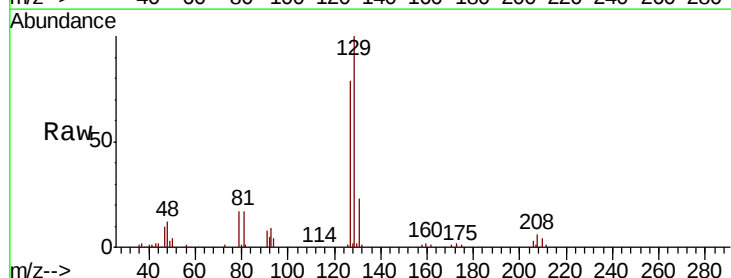
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

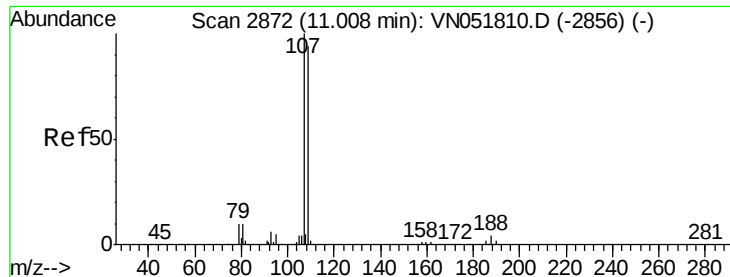
Tot Ion: 43 Resp: 247617
Ion Ratio Lower Upper
43 100
58 59.9 28.3 85.0



#60
Dibromochloromethane
Concen: 16.261 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 129 Resp: 139909
Ion Ratio Lower Upper
129 100
127 76.2 38.3 114.9





#61

1,2-Dibromoethane

Concen: 17.130 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

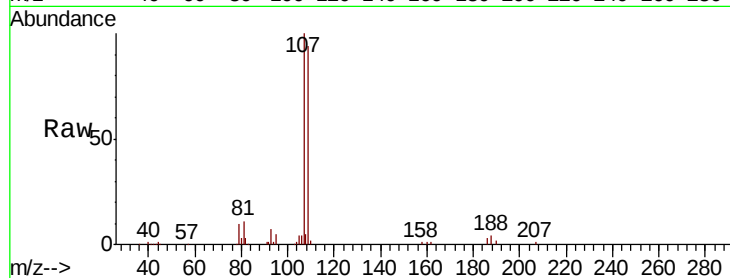
VN1012WBS02

Tot Ion:107 Resp: 127867

Ion Ratio Lower Upper

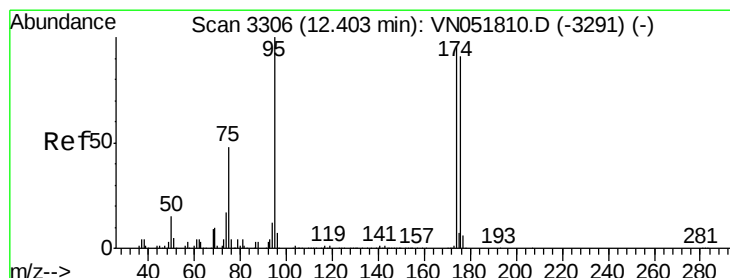
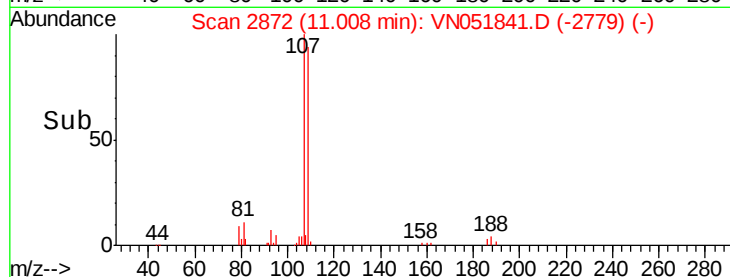
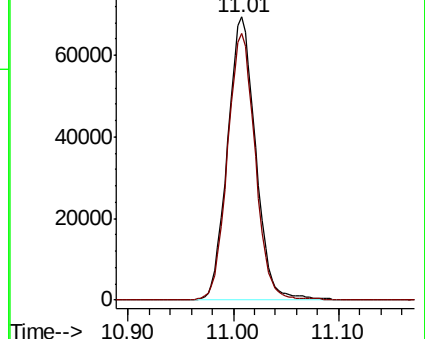
107 100

109 92.4 75.4 113.2



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 17.130 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

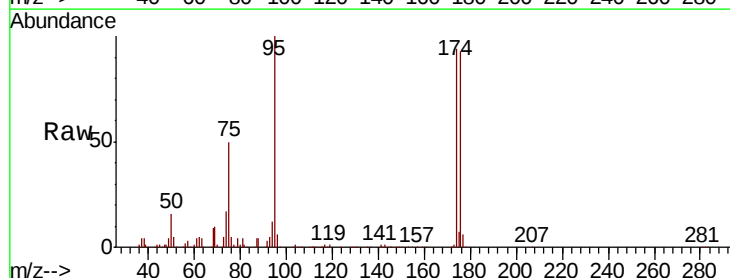
Tgt Ion: 95 Resp: 419114

Ion Ratio Lower Upper

95 100

174 95.9 0.0 183.0

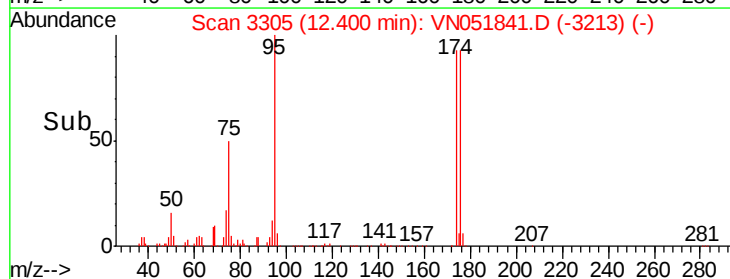
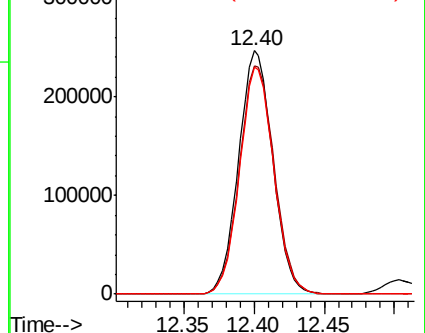
176 93.0 0.0 178.8

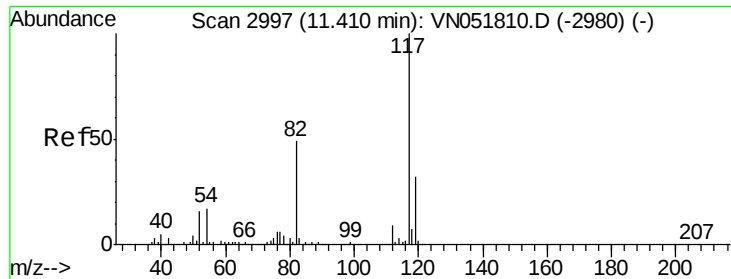


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

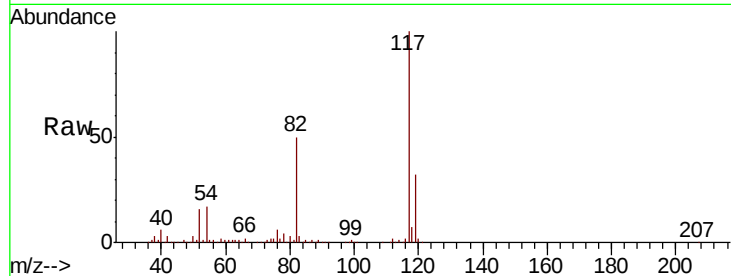




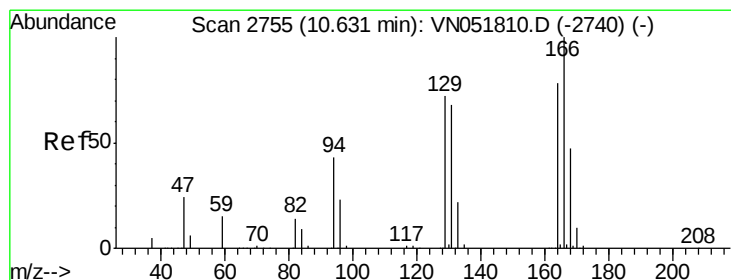
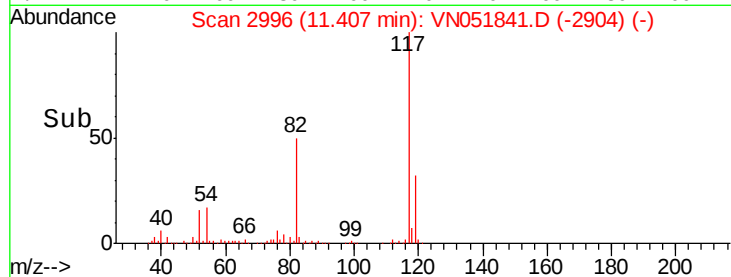
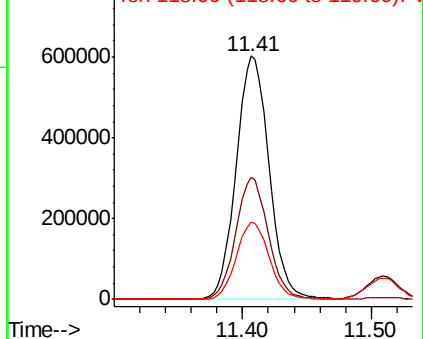
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

Tot Ion:117 Resp: 1070418
Ion Ratio Lower Upper
117 100
82 50.4 42.6 64.0
119 31.8 25.8 38.6

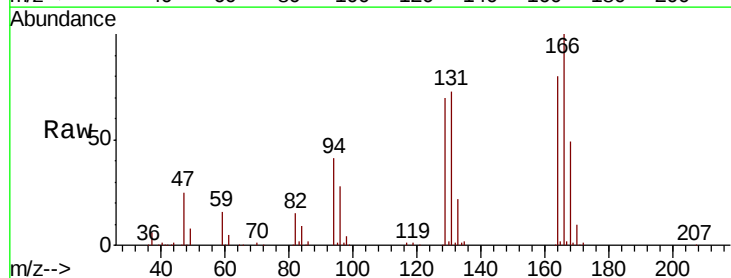


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

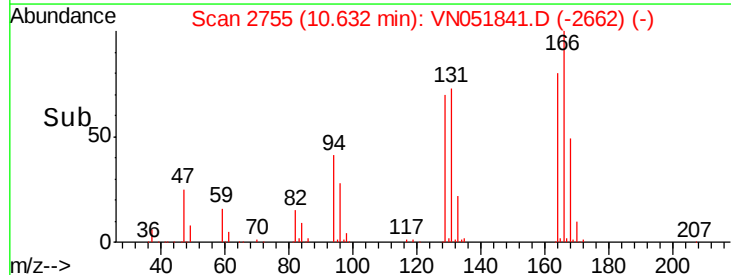
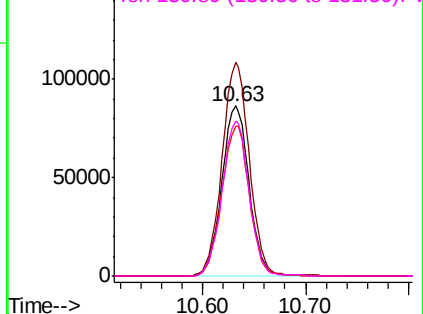


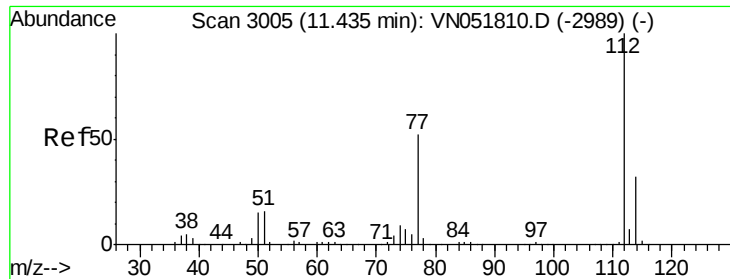
#64
Tetrachloroethene
Concen: 19.358 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion:164 Resp: 158922
Ion Ratio Lower Upper
164 100
166 125.8 103.5 155.3
129 88.5 72.7 109.1
131 91.4 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

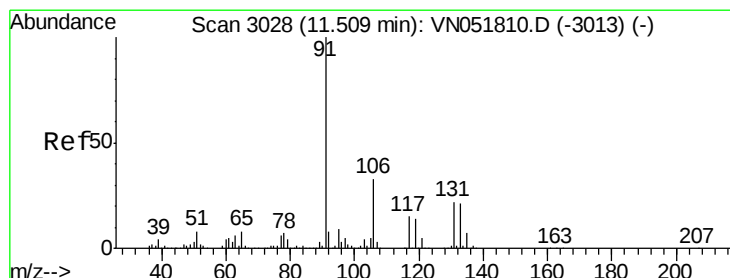
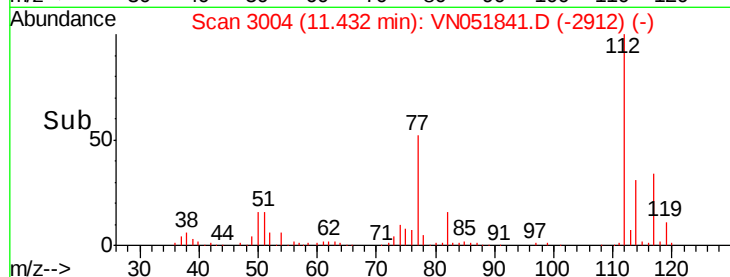
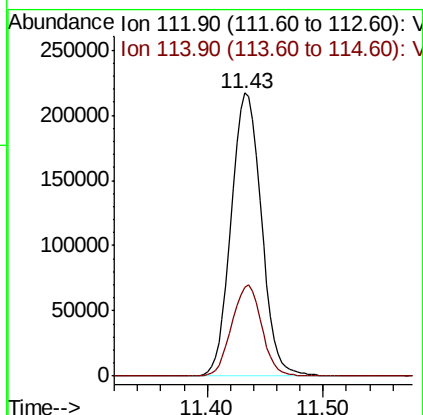
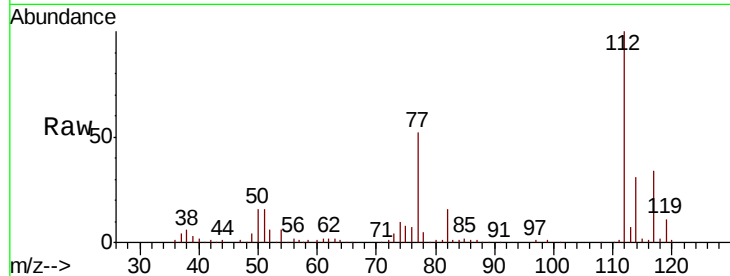




#65
Chlorobenzene
Concen: 18.081 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

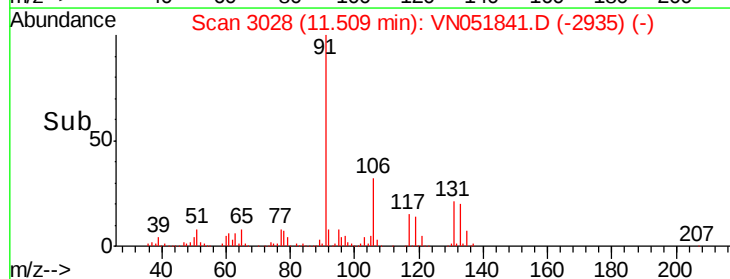
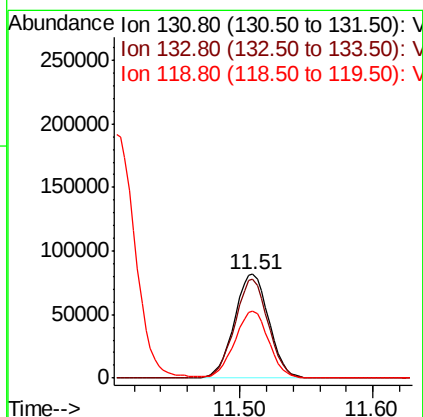
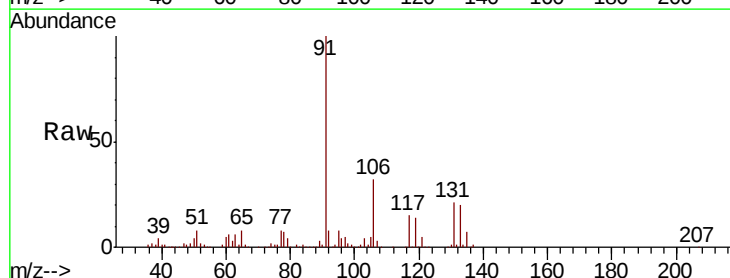
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

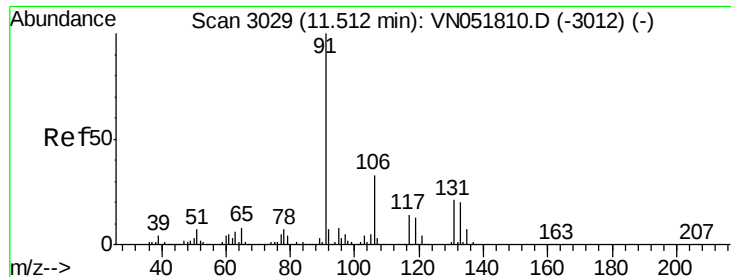
Tot Ion:112 Resp: 391415
Ion Ratio Lower Upper
112 100
114 31.3 25.6 38.4



#66
1,1,1,2-Tetrachloroethane
Concen: 17.905 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion:131 Resp: 147734
Ion Ratio Lower Upper
131 100
133 92.2 47.4 142.3
119 63.7 32.8 98.4

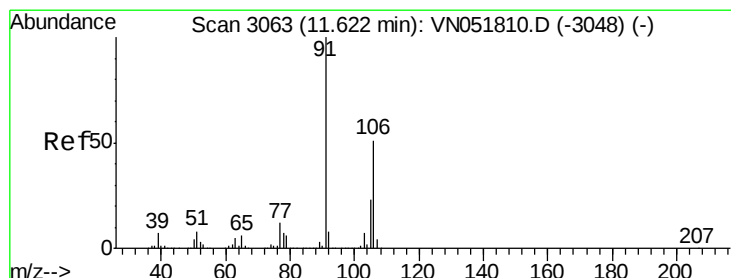
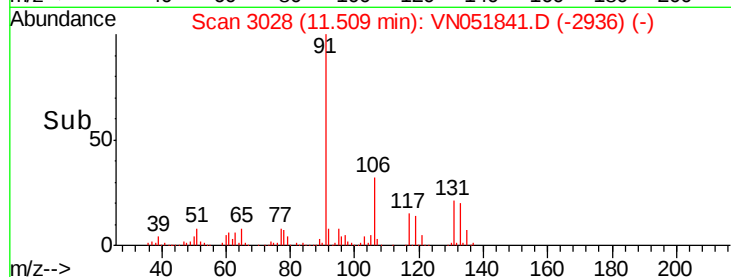
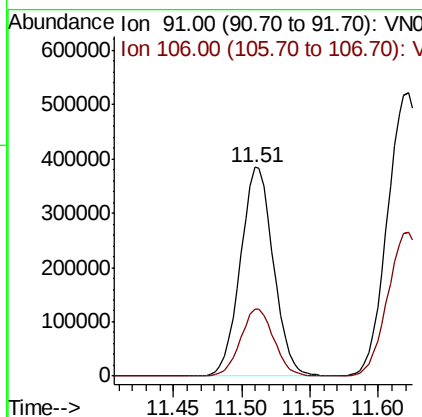
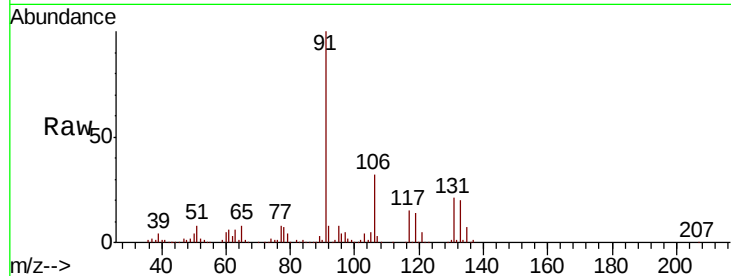




#67
Ethyl Benzene
Concen: 18.085 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

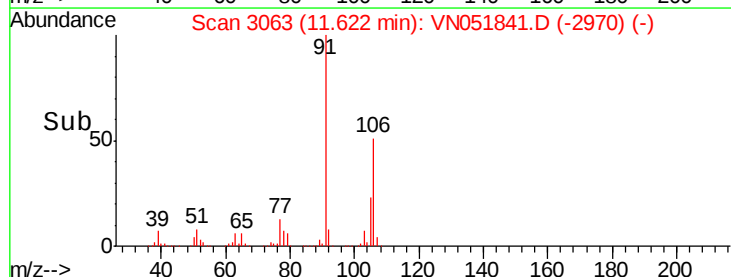
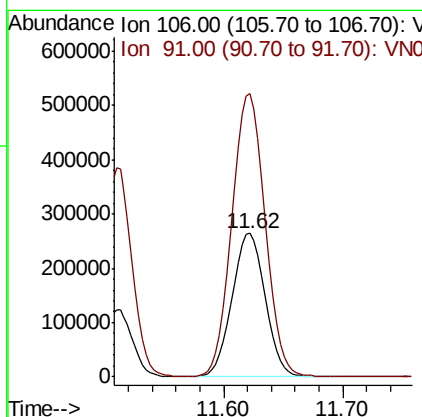
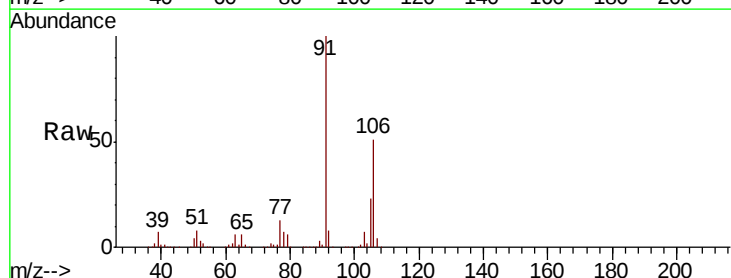
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

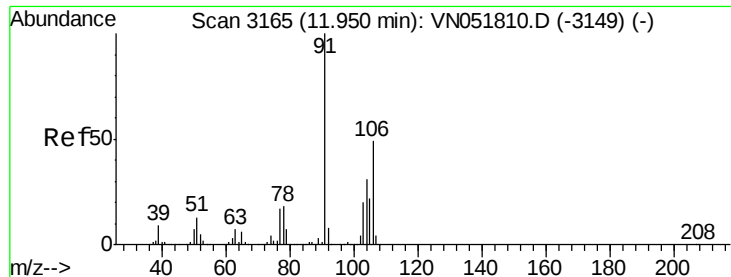
Tot Ion: 91 Resp: 648097
Ion Ratio Lower Upper
91 100
106 32.0 25.0 37.4



#68
m/p-Xylenes
Concen: 35.305 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion: 106 Resp: 511080
Ion Ratio Lower Upper
106 100
91 197.7 161.0 241.6

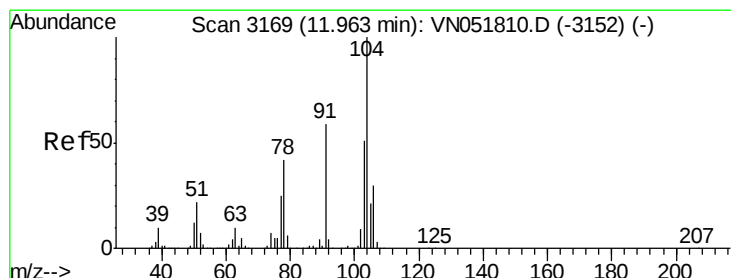
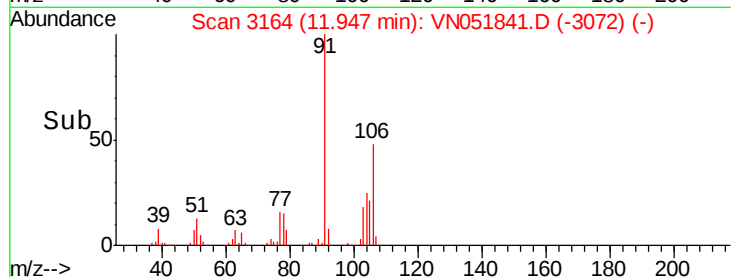
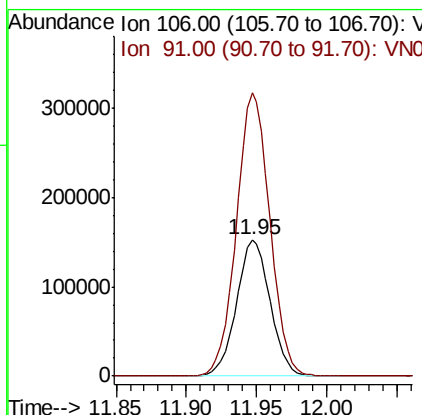
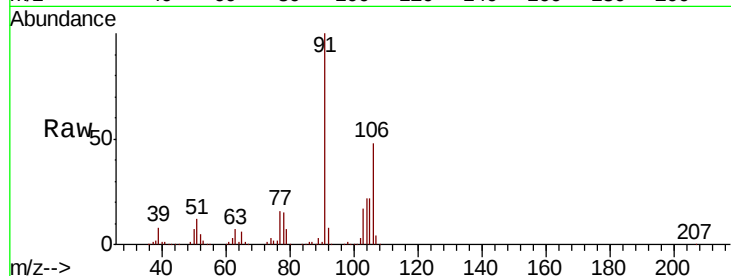




#69
o-Xylene
Concen: 18.083 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

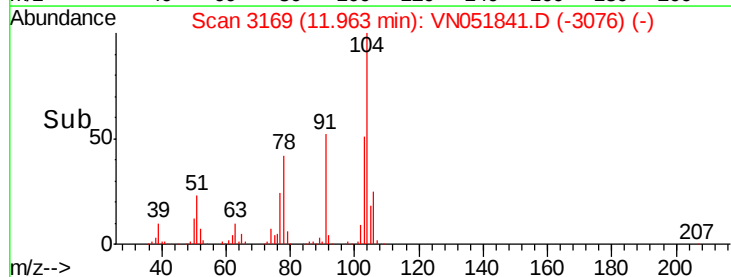
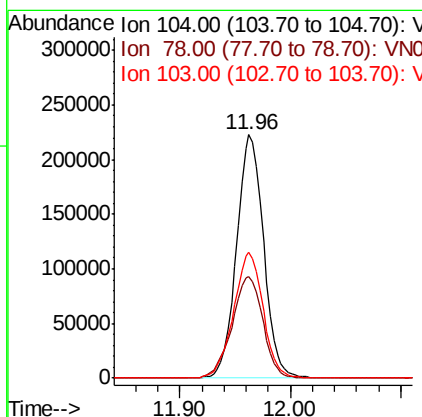
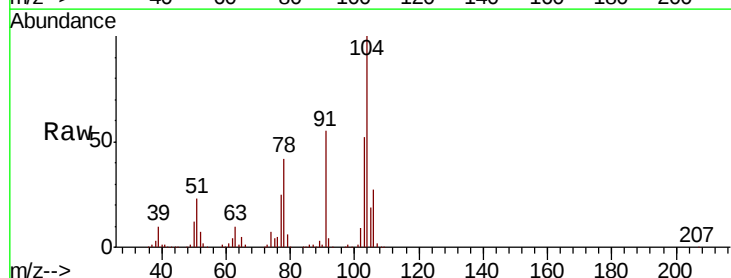
Instrument :
MSVOA_N
ClientSampleId :
VN1012WBS02

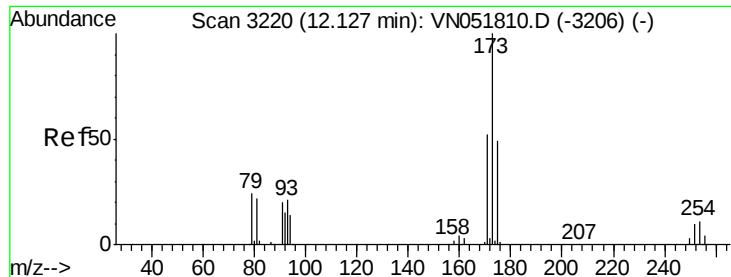
Tot Ion:106 Resp: 254231
Ion Ratio Lower Upper
106 100
91 207.0 106.5 319.5



#70
Styrene
Concen: 17.455 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051841.D
Acq: 12 Oct 2018 19:32

Tgt Ion:104 Resp: 378597
Ion Ratio Lower Upper
104 100
78 47.6 38.2 57.4
103 56.3 44.4 66.6





#71

Bromoform

Concen: 15.596 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

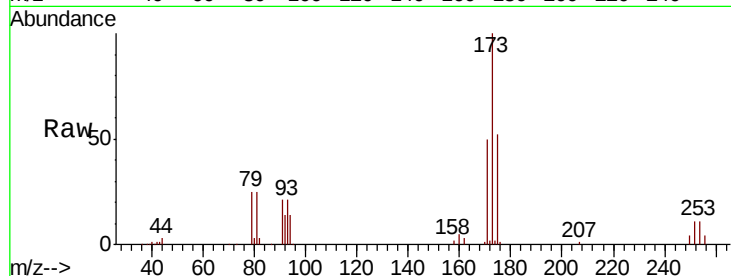
Tot Ion:173 Resp: 84104

Ion Ratio Lower Upper

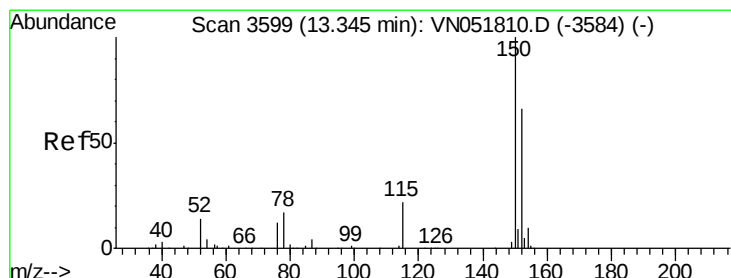
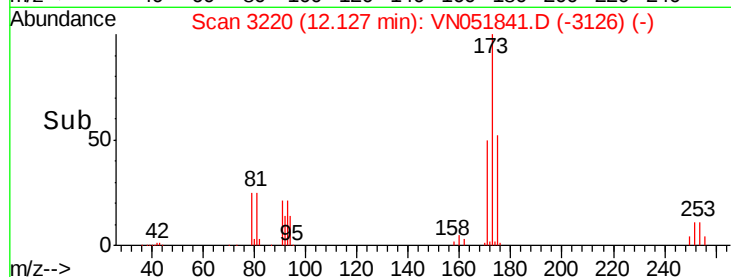
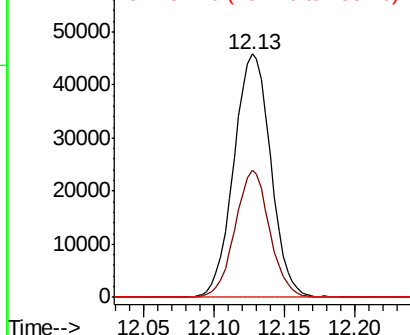
173 100

175 48.8 24.4 73.4

254 0.0 0.1 0.1#



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: VN051841.D

Acq: 12 Oct 2018 19:32

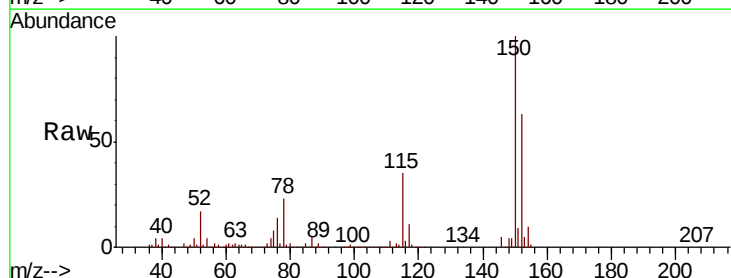
Tgt Ion:152 Resp: 453424

Ion Ratio Lower Upper

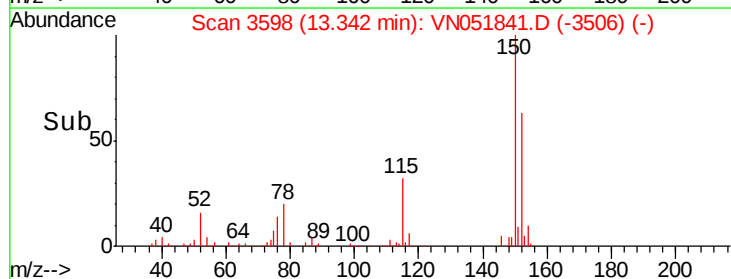
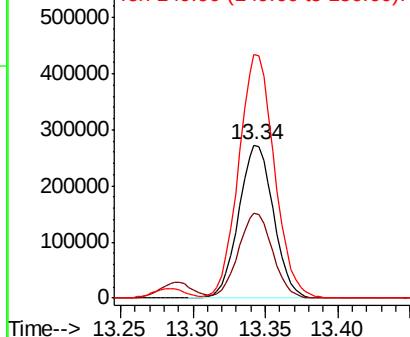
152 100

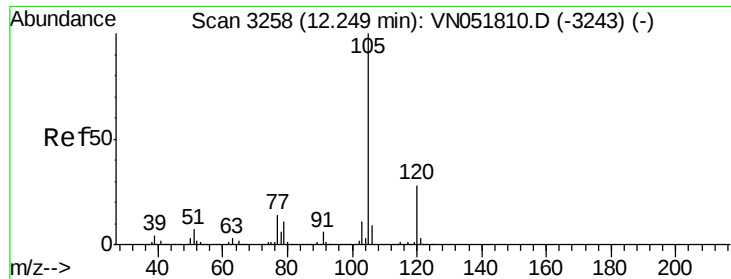
115 54.9 27.8 83.4

150 163.8 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.426 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

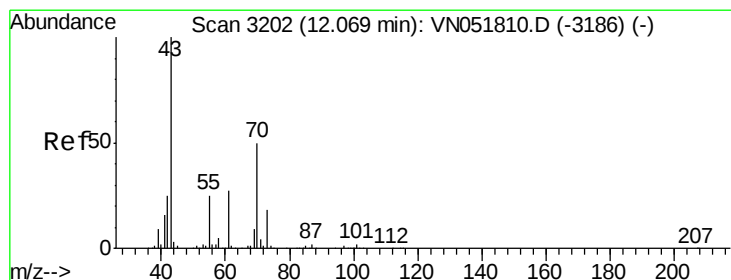
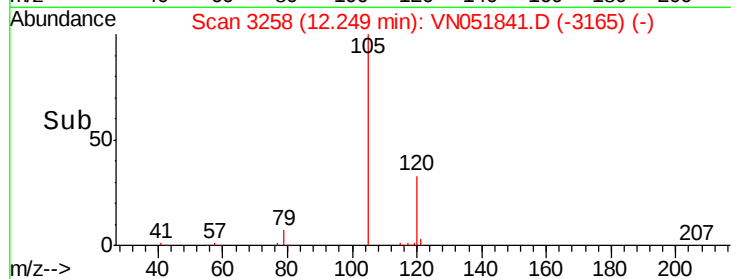
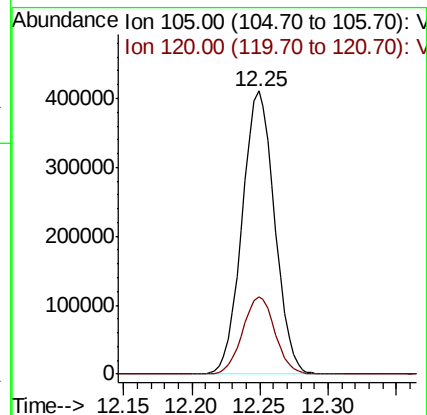
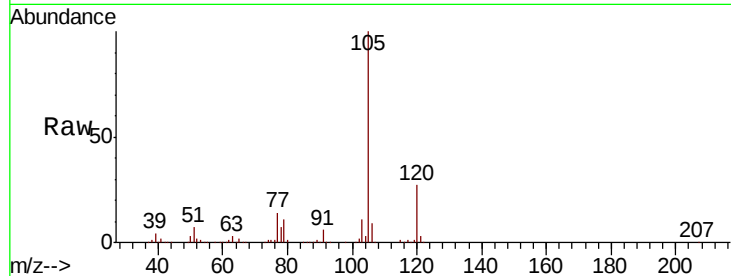
VN1012WBS02

Tot Ion:105 Resp: 678731

Ion Ratio Lower Upper

105 100

120 27.3 13.5 40.4



#74

N-ethyl acetate

Concen: 16.430 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Tgt Ion: 43 Resp: 113841

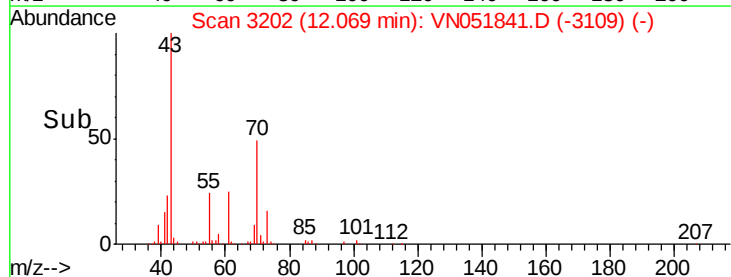
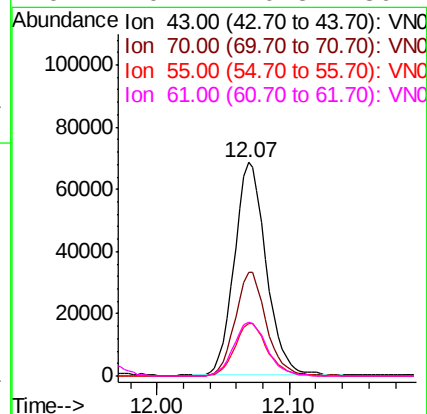
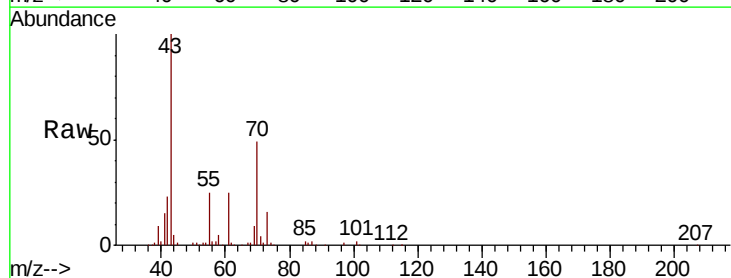
Ion Ratio Lower Upper

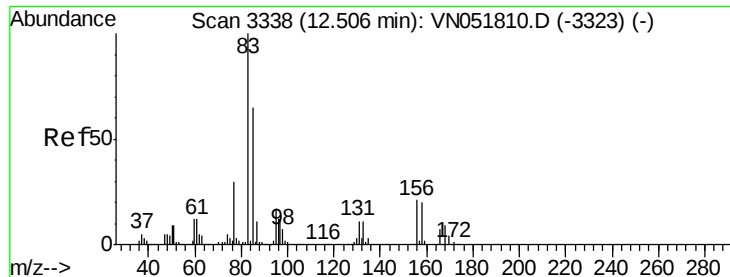
43 100

70 47.9 36.2 54.2

55 25.4 21.8 32.8

61 26.4 20.5 30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 17.848 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

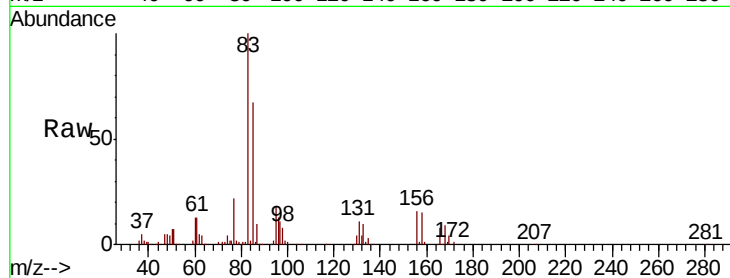
Tot Ion: 83 Resp: 136972

Ion Ratio Lower Upper

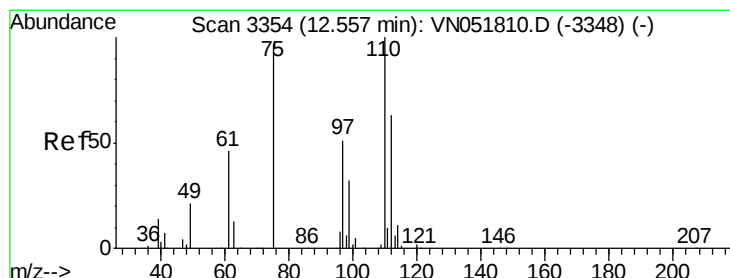
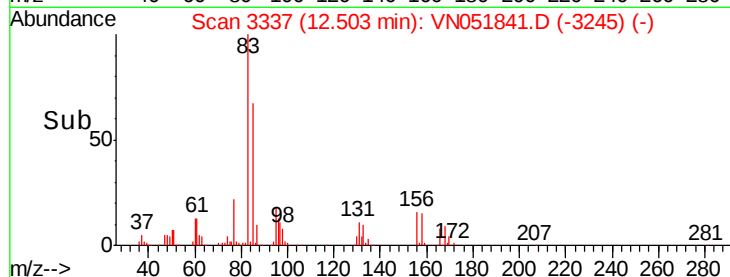
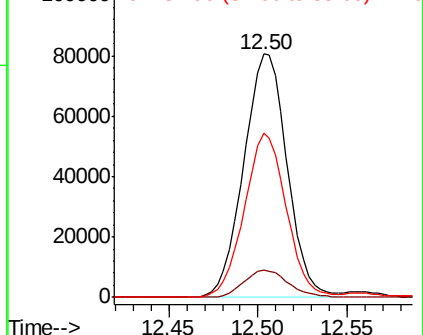
83 100

131 11.5 5.3 15.9

85 65.3 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 28.135 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051841.D

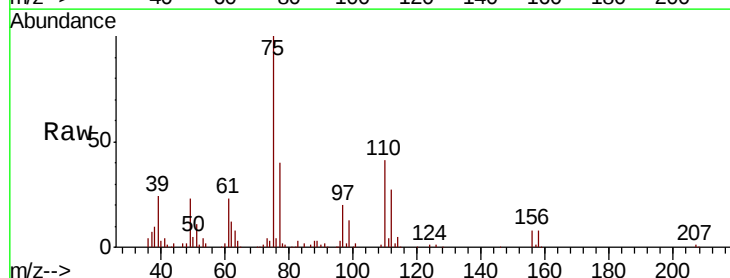
Acq: 12 Oct 2018 19:32

Tgt Ion: 75 Resp: 158487

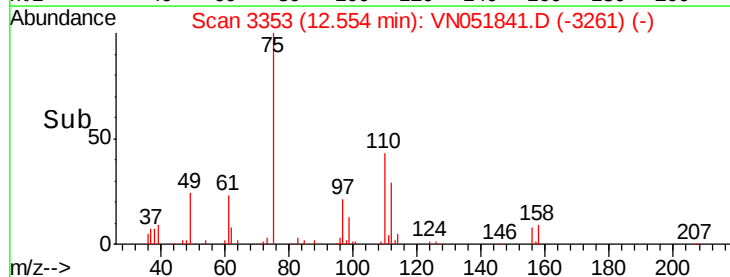
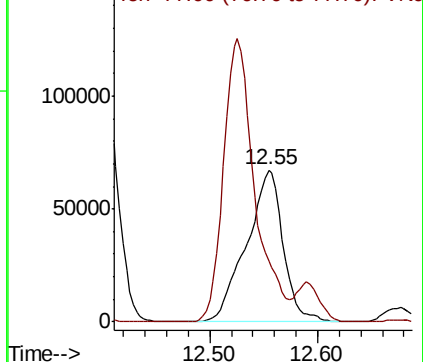
Ion Ratio Lower Upper

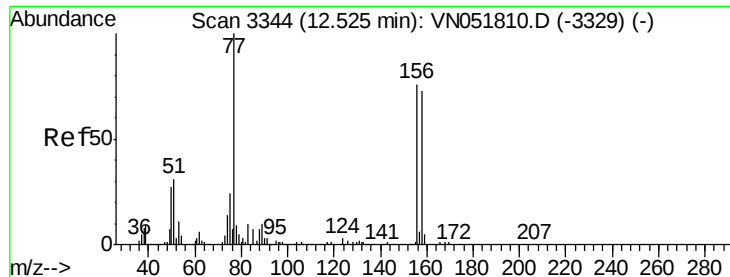
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 18.778 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

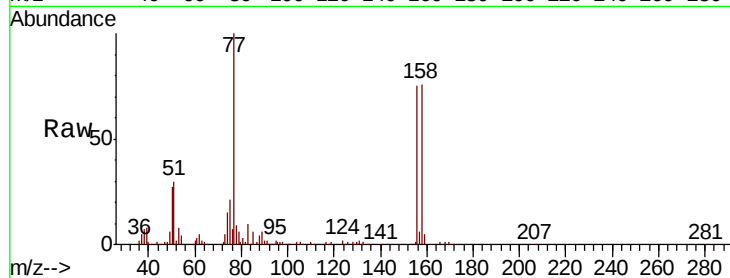
Tot Ion:156 Resp: 163583

Ion Ratio Lower Upper

156 100

77 154.7 89.9 269.7

158 99.3 49.3 147.9



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

150000

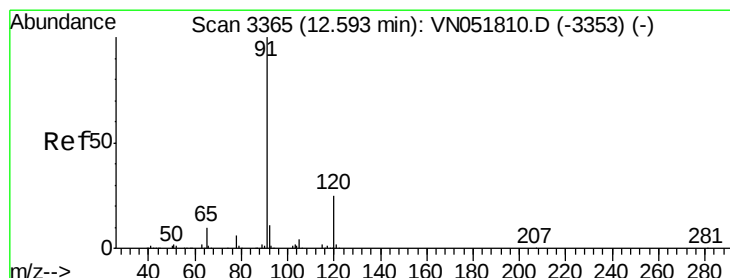
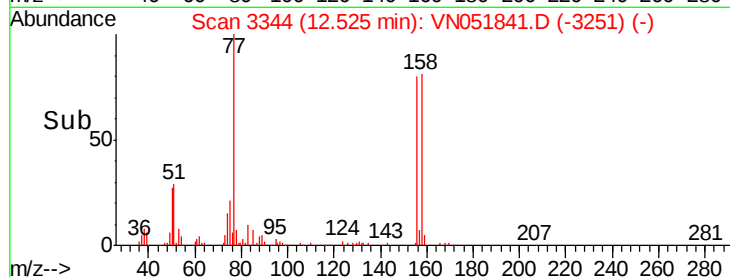
100000

50000

0

12.45 12.50 12.55 12.60

Time-->



#78

n-propylbenzene

Concen: 19.008 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051841.D

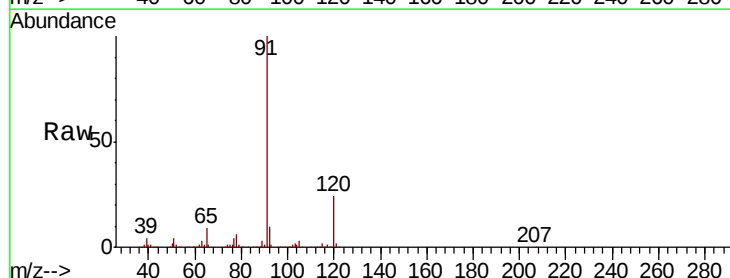
Acq: 12 Oct 2018 19:32

Tgt Ion: 91 Resp: 695466

Ion Ratio Lower Upper

91 100

120 24.9 11.7 35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

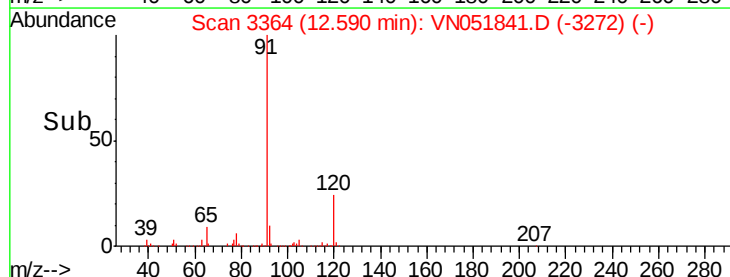
200000

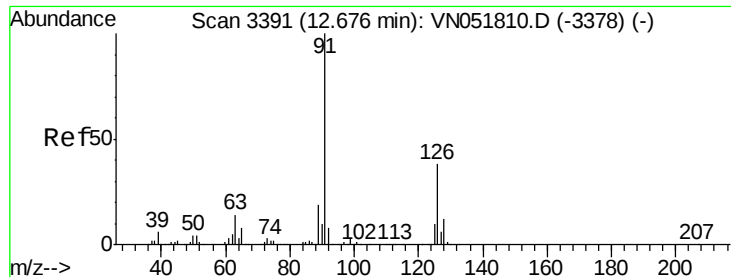
100000

0

12.55 12.60 12.65

Time-->





#79

2-Chlorotoluene

Concen: 19.410 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

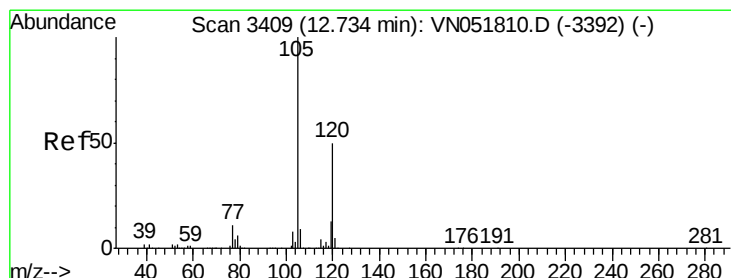
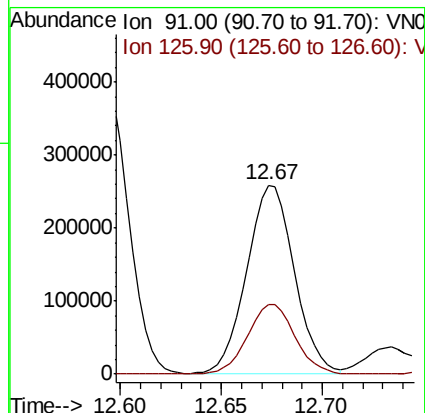
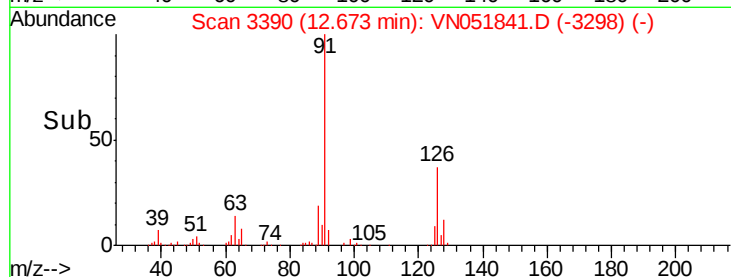
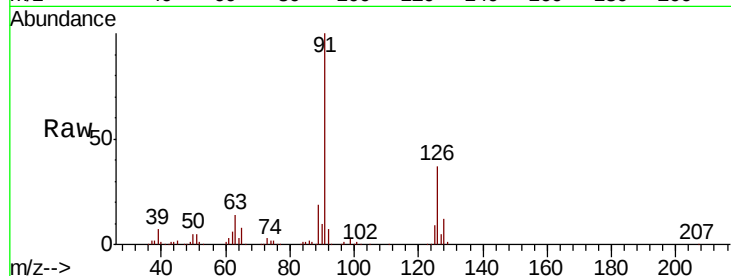
VN1012WBS02

Tot Ion: 91 Resp: 427800

Ion Ratio Lower Upper

91 100

126 36.9 17.8 53.3



#80

1,3,5-Trimethylbenzene

Concen: 19.369 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051841.D

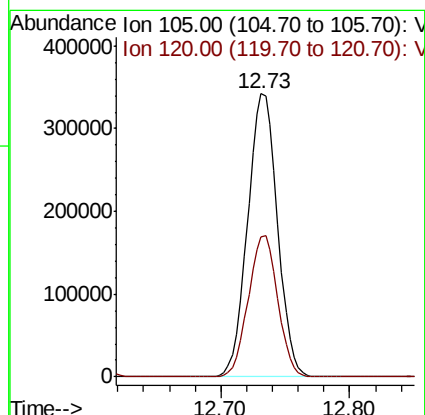
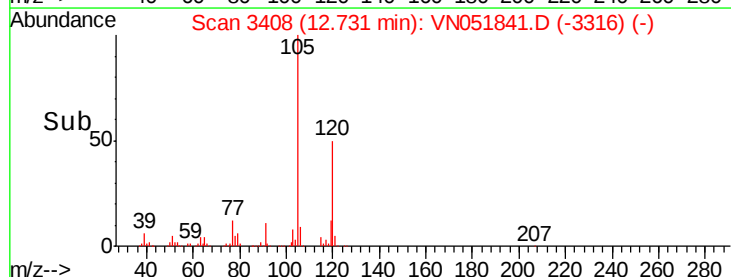
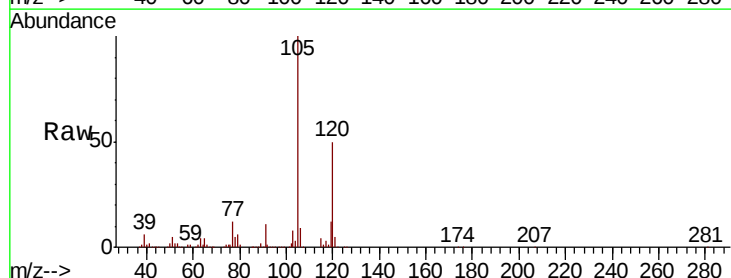
Acq: 12 Oct 2018 19:32

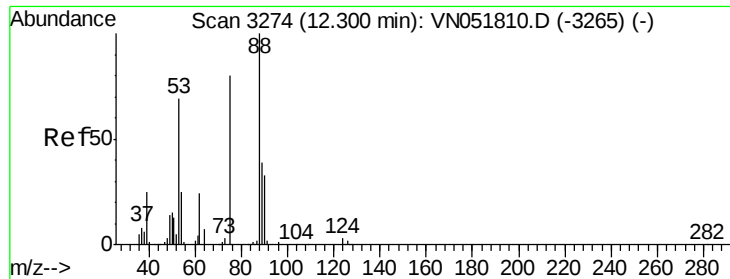
Tgt Ion:105 Resp: 551444

Ion Ratio Lower Upper

105 100

120 49.2 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 14.017 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

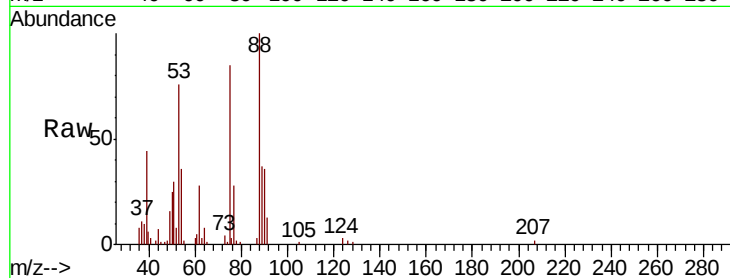
MSVOA_N

ClientSampled :

VN1012WBS02

Tot Ion: 75 Resp: 27600

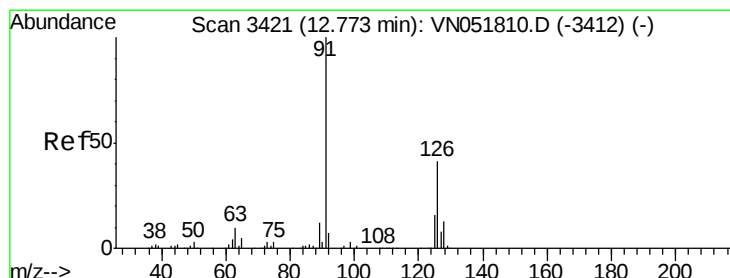
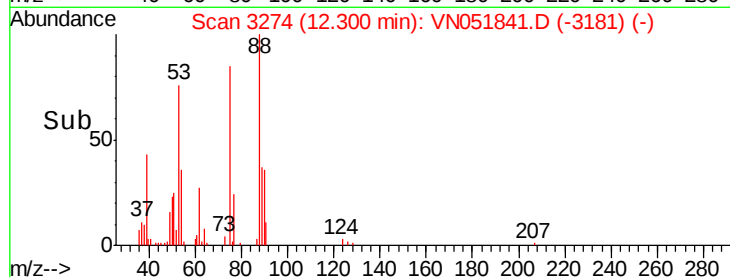
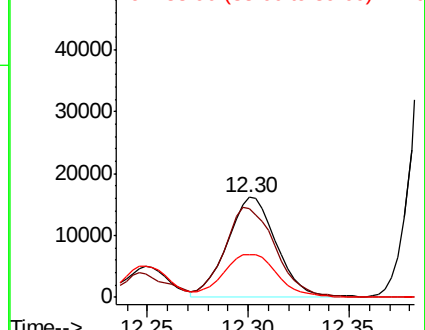
Ion	Ratio	Lower	Upper
75	100		
53	93.5	68.9	103.3
89	47.3	36.1	54.1



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: 19.408 ug/l

RT: 12.77 min Scan# 3421

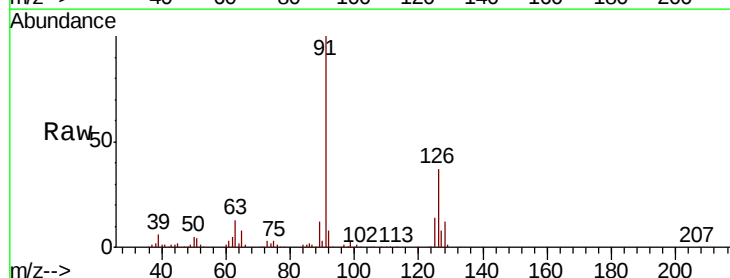
Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

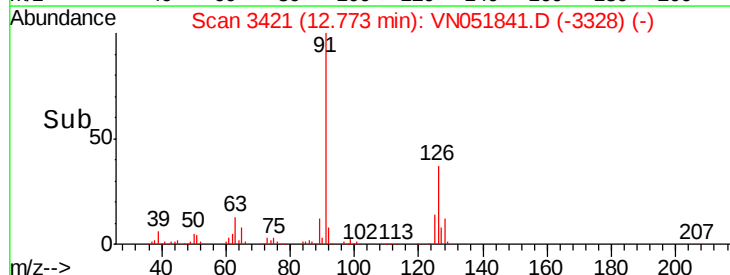
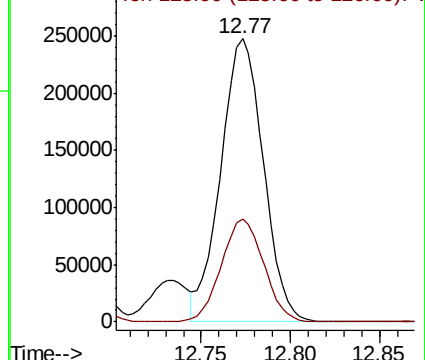
Tgt Ion: 91 Resp: 411045

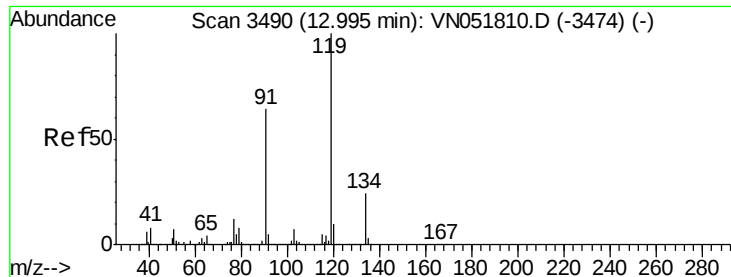
Ion	Ratio	Lower	Upper
91	100		
126	36.2	17.5	52.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 19.531 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

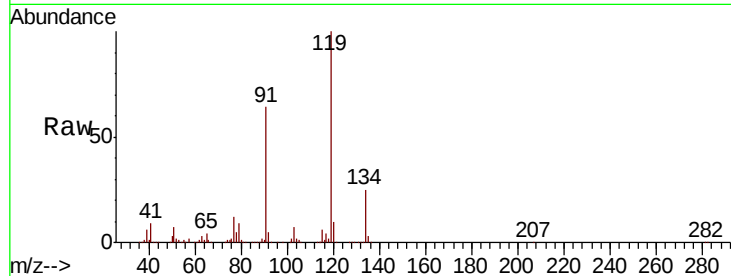
Tot Ion:119 Resp: 515699

Ion Ratio Lower Upper

119 100

91 61.1 31.6 94.7

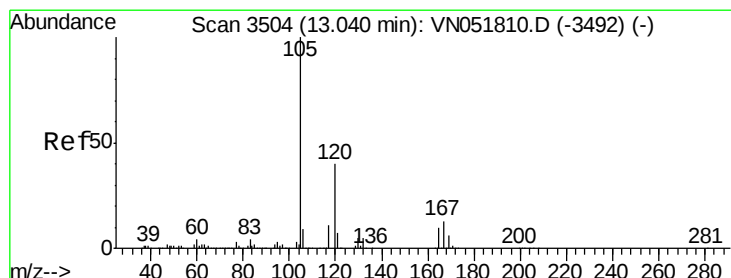
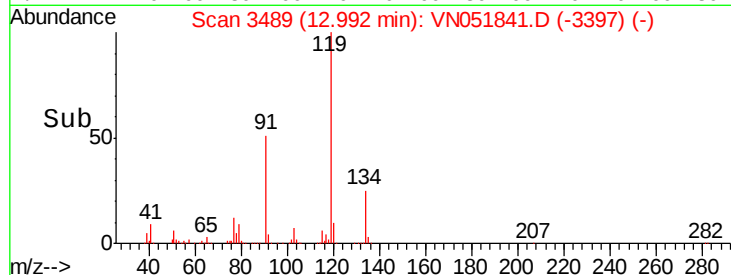
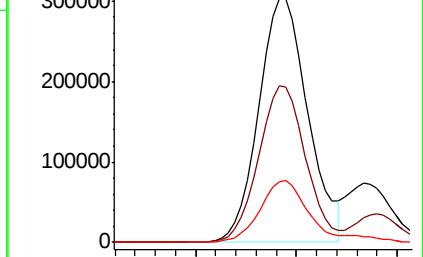
134 26.2 13.4 40.1



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: 19.389 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051841.D

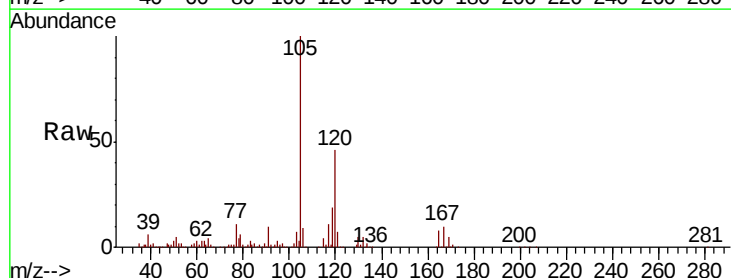
Acq: 12 Oct 2018 19:32

Tgt Ion:105 Resp: 549613

Ion Ratio Lower Upper

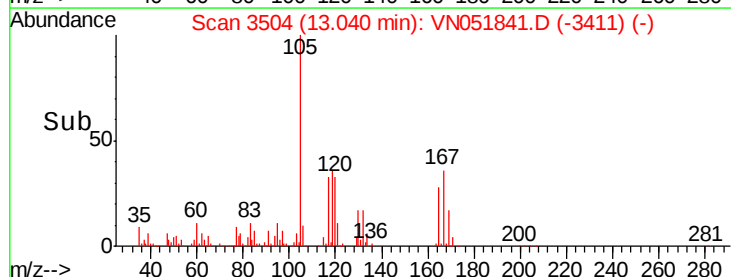
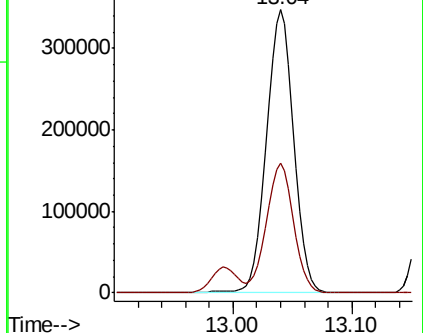
105 100

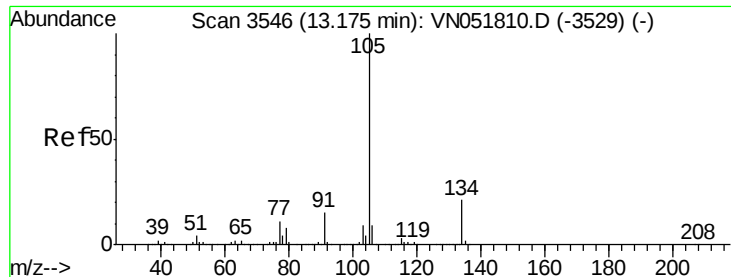
120 45.7 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

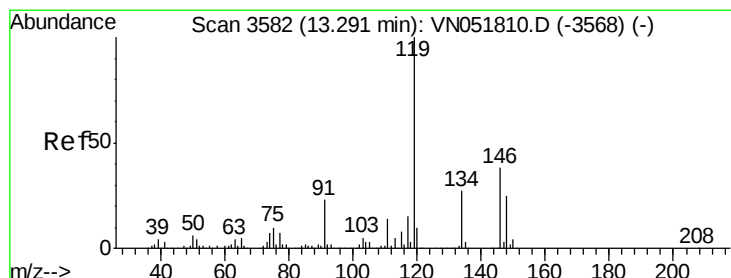
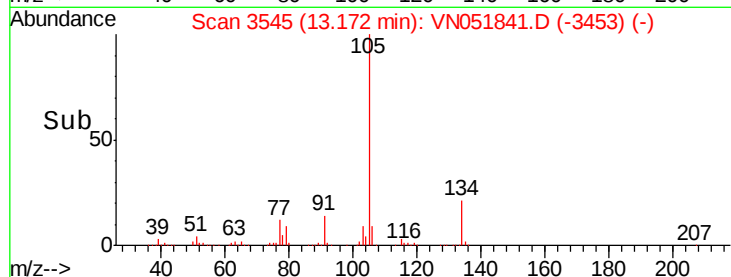
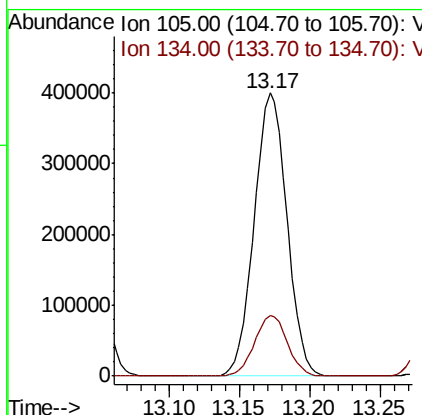
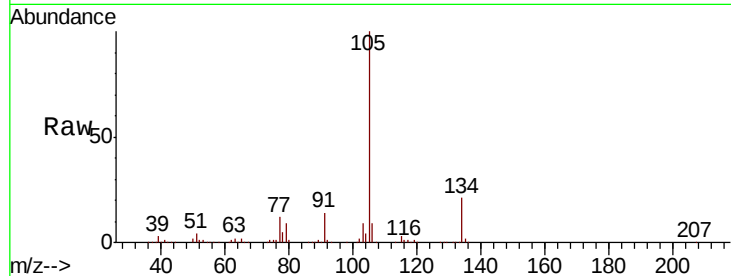




#85
 sec-Butylbenzene
 Concen: 19.018 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

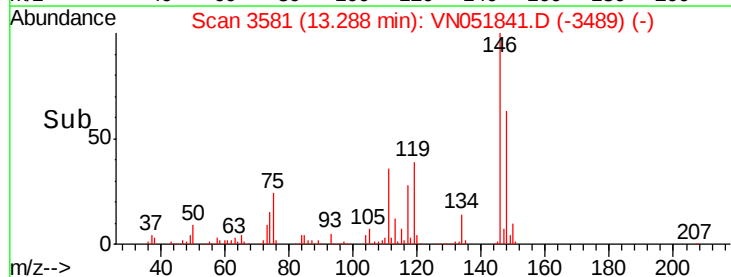
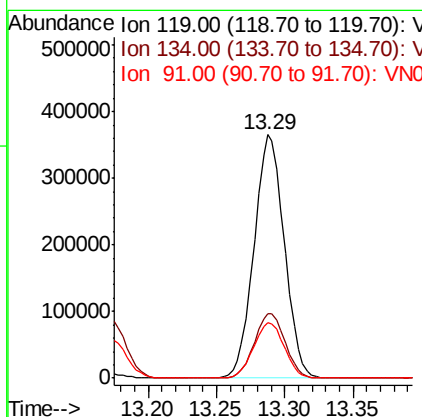
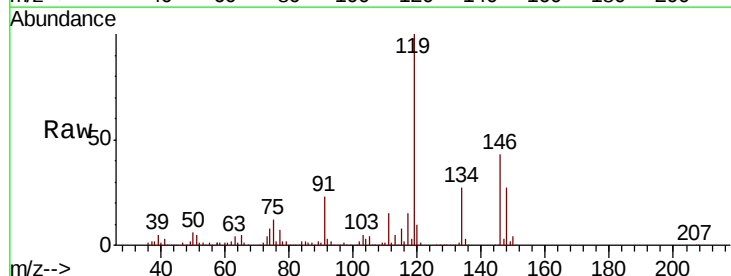
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

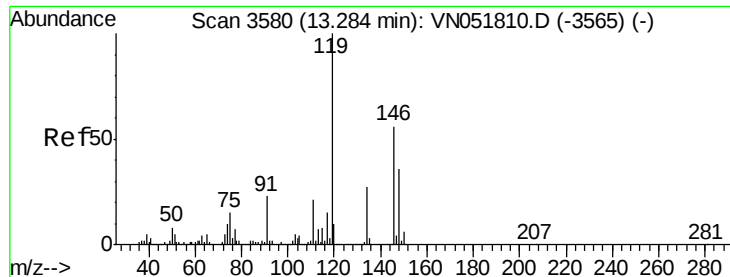
Tot Ion:105 Resp: 650563
 Ion Ratio Lower Upper
 105 100
 134 21.4 10.3 30.8



#86
 p-Isopropyltoluene
 Concen: 18.646 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion:119 Resp: 560923
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.7 41.0
 91 23.2 11.2 33.5





#87

1,3-Dichlorobenzene

Concen: 18.514 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

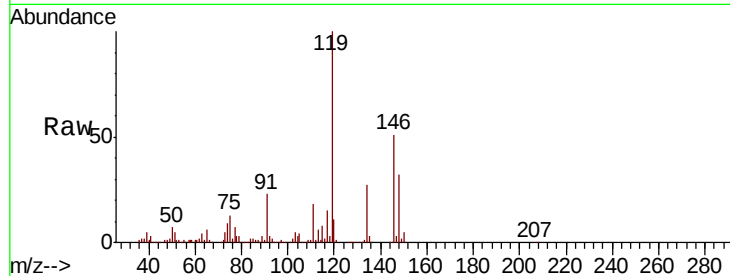
Tot Ion:146 Resp: 275843

Ion Ratio Lower Upper

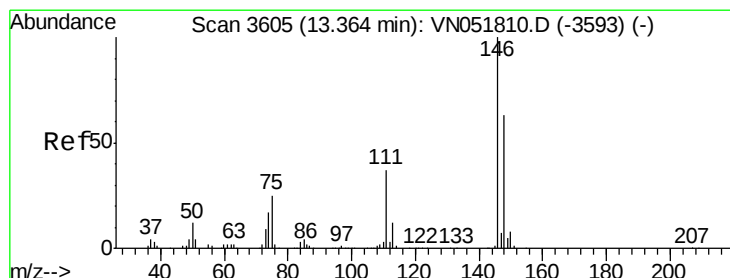
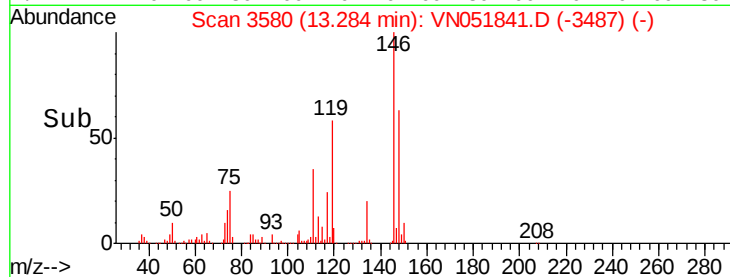
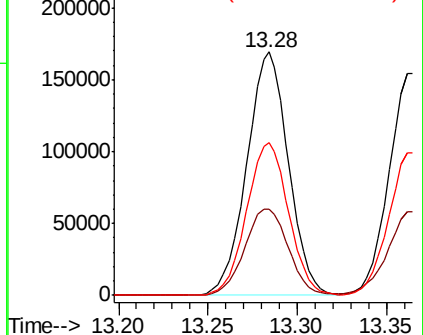
146 100

111 37.0 19.1 57.3

148 63.2 32.2 96.6



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



#88

1,4-Dichlorobenzene

Concen: 17.994 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

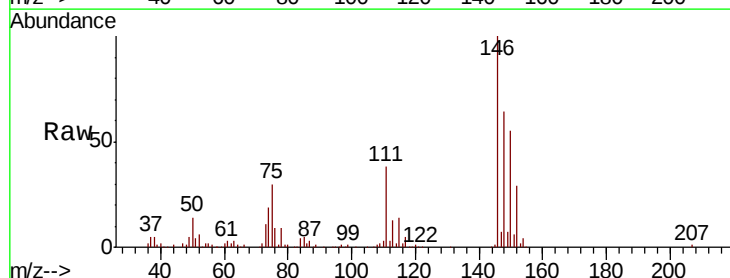
Tgt Ion:146 Resp: 259851

Ion Ratio Lower Upper

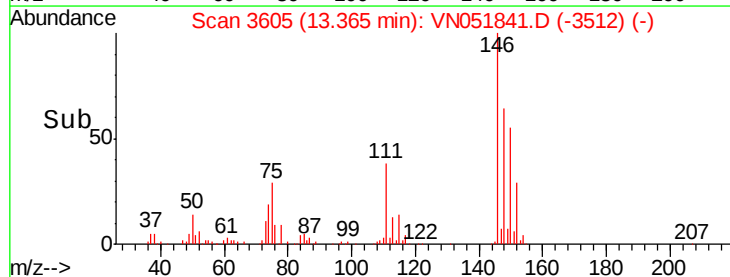
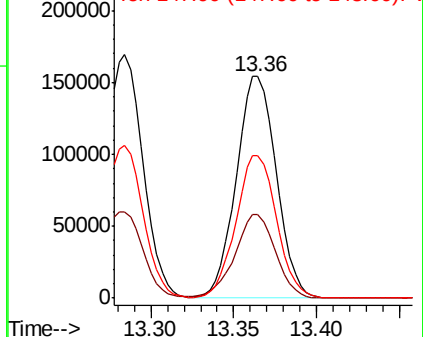
146 100

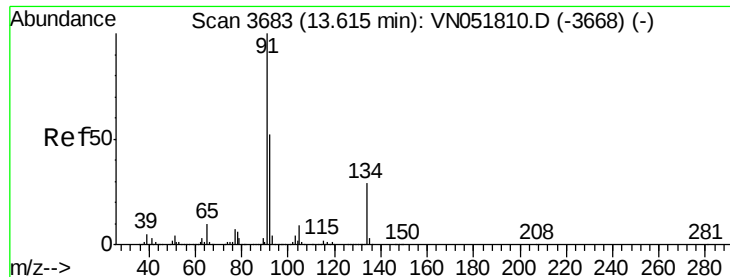
111 38.4 18.8 56.3

148 65.1 32.2 96.6



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





#89

n-Butylbenzene

Concen: 18.191 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

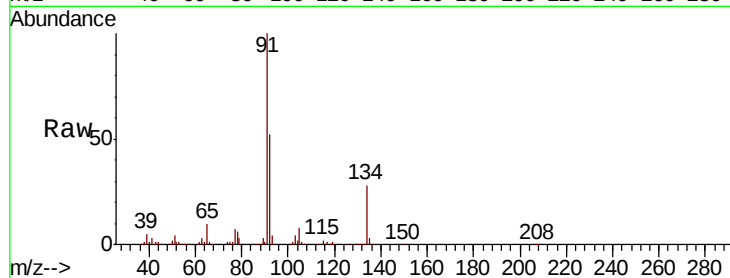
Tot Ion: 91 Resp: 406831

Ion Ratio Lower Upper

91 100

92 51.2 26.1 78.2

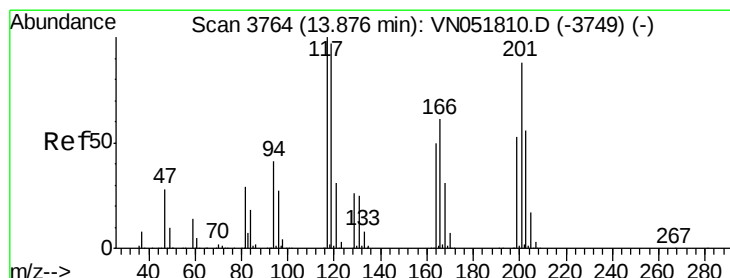
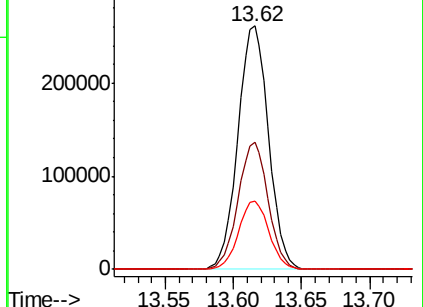
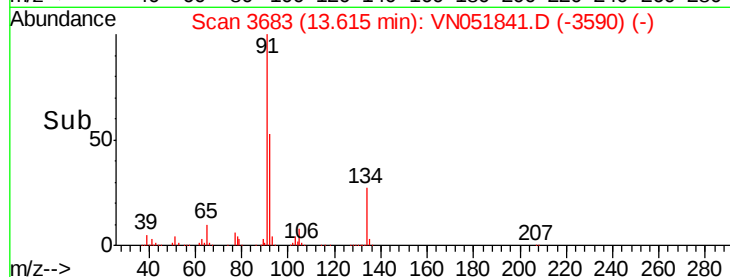
134 27.8 13.2 39.6



Abundance Ion 91.00 (90.70 to 91.70): VN051841.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN051841.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN051841.D (-3668) (-)



#90

Hexachloroethane

Concen: 16.620 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN051841.D

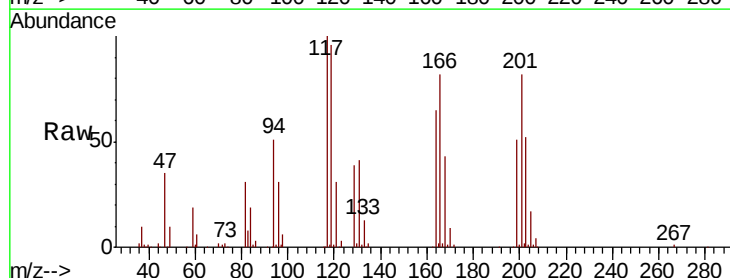
Acq: 12 Oct 2018 19:32

Tgt Ion: 117 Resp: 90741

Ion Ratio Lower Upper

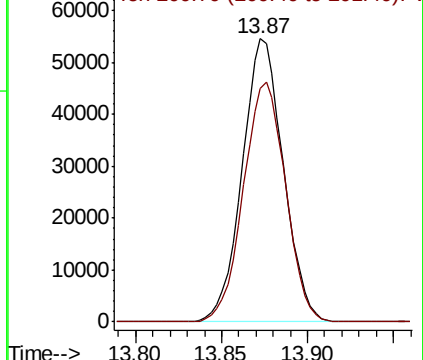
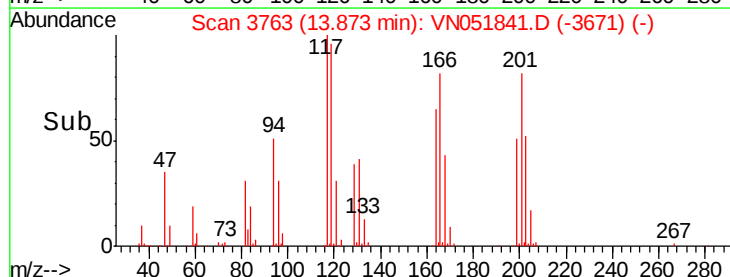
117 100

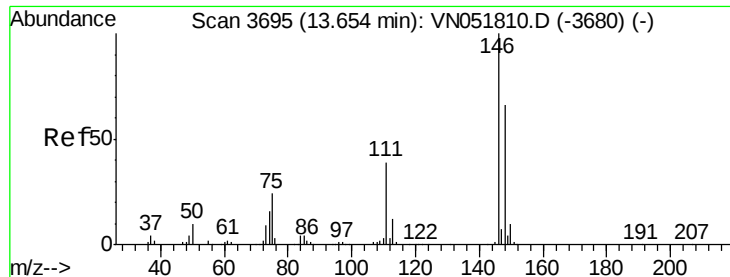
201 86.4 46.0 137.8



Abundance Ion 116.80 (116.50 to 117.50): VN051841.D (-3749) (-)

Ion 200.70 (200.40 to 201.40): VN051841.D (-3749) (-)





#91

1,2-Dichlorobenzene

Concen: 18.897 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampleId :

VN1012WBS02

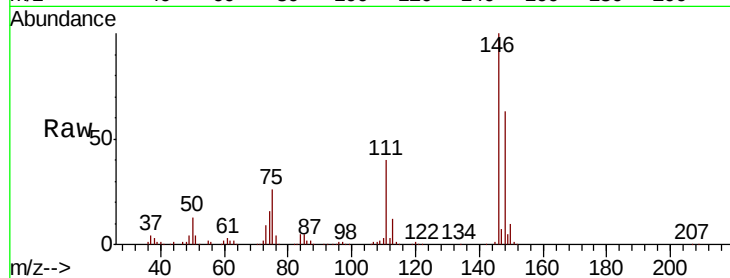
Tot Ion:146 Resp: 272060

Ion Ratio Lower Upper

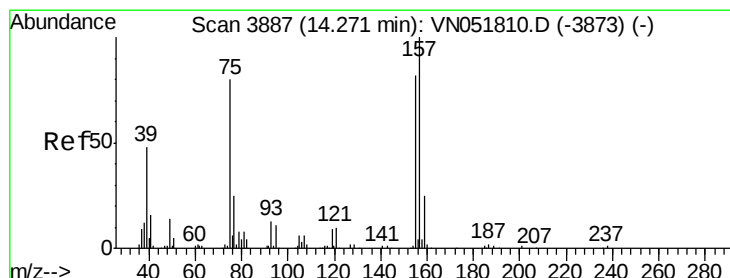
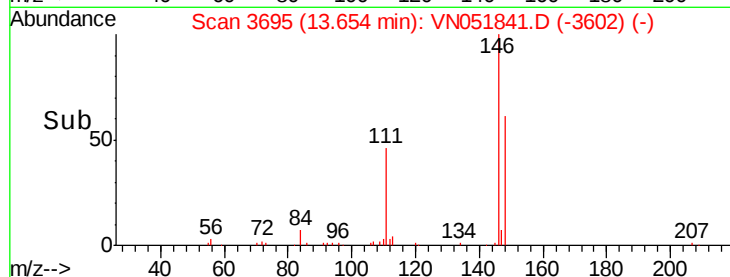
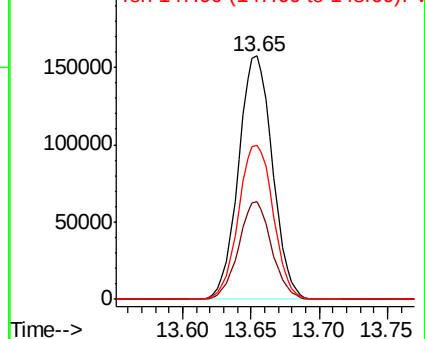
146 100

111 38.9 19.8 59.3

148 64.8 32.3 96.8



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: 16.181 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

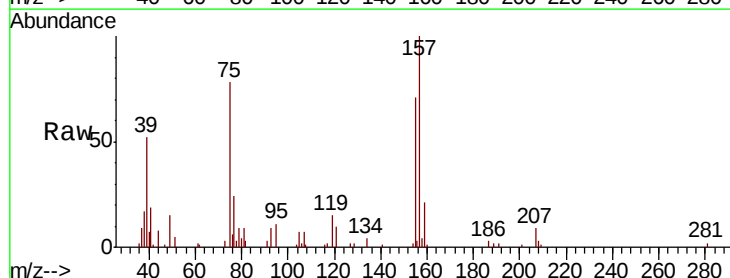
Tgt Ion: 75 Resp: 18281

Ion Ratio Lower Upper

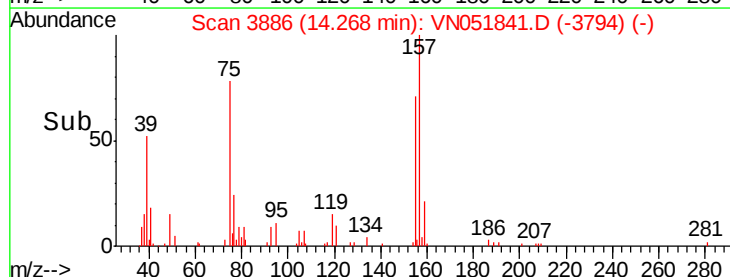
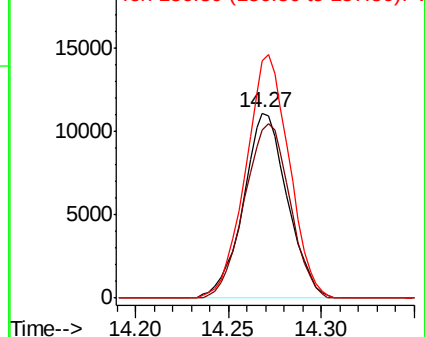
75 100

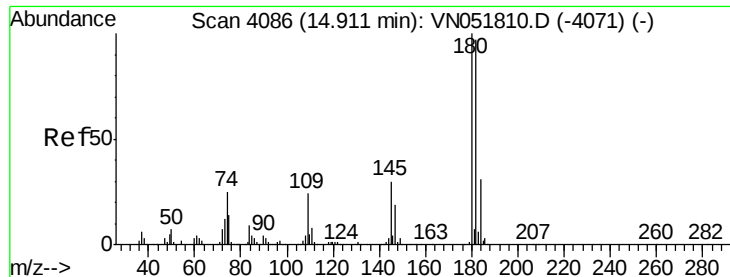
155 97.0 46.4 139.1

157 129.9 60.7 182.0



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

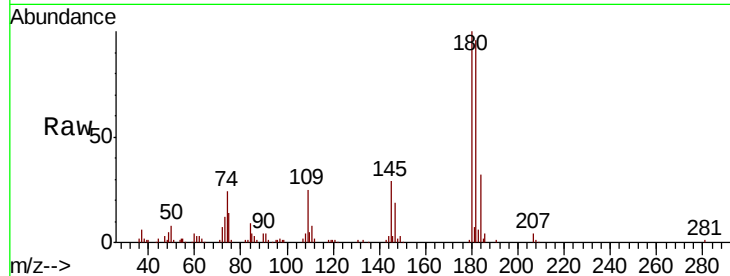




#93
 1,2,4-Trichlorobenzene
 Concen: 15.505 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1012WBS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.2	48.2	144.6
145	29.1	14.1	42.2

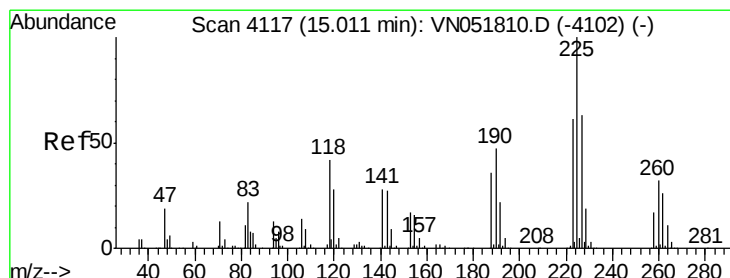
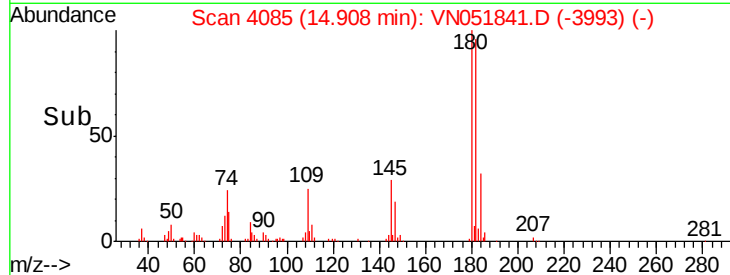
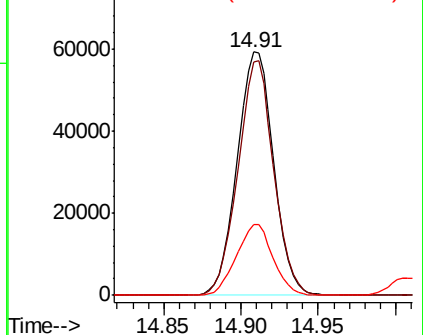


Abundance

Ion 179.80 (179.50 to 180.50): V

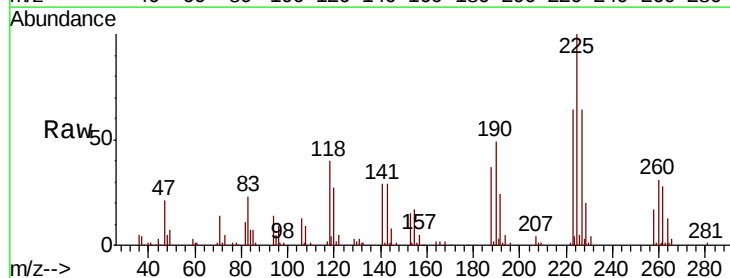
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.138 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051841.D
 Acq: 12 Oct 2018 19:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	31.3	93.8
227	63.4	32.0	96.2

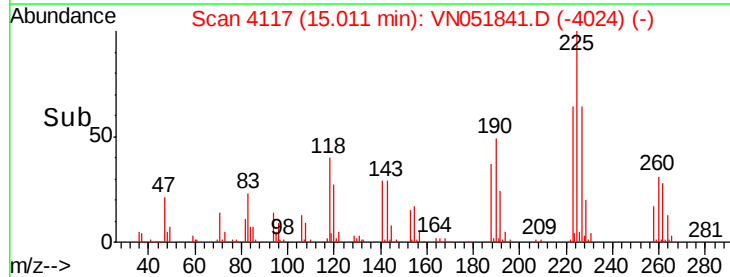
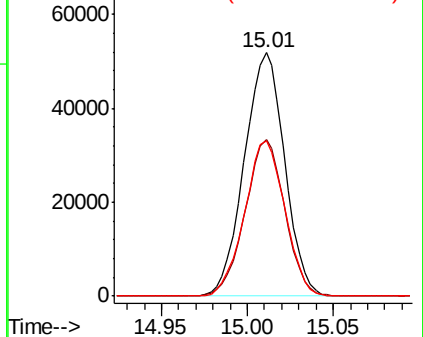


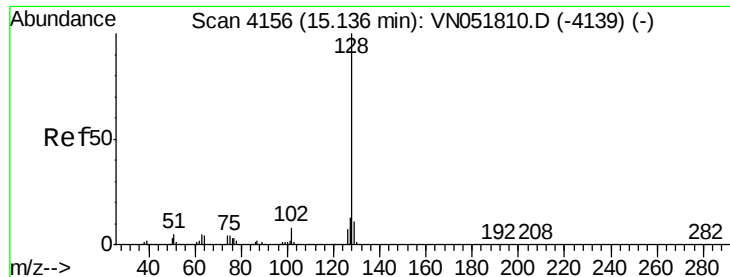
Abundance

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: 14.526 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

Instrument :

MSVOA_N

ClientSampled :

VN1012WBS02

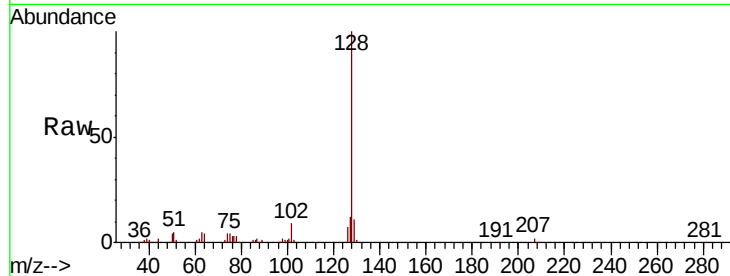
Tot Ion:128 Resp: 185525

Ion Ratio Lower Upper

128 100

127 12.6 10.5 15.7

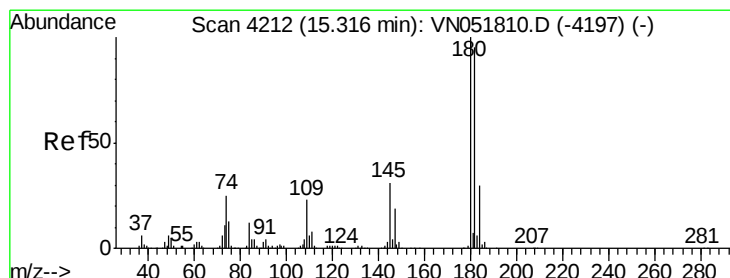
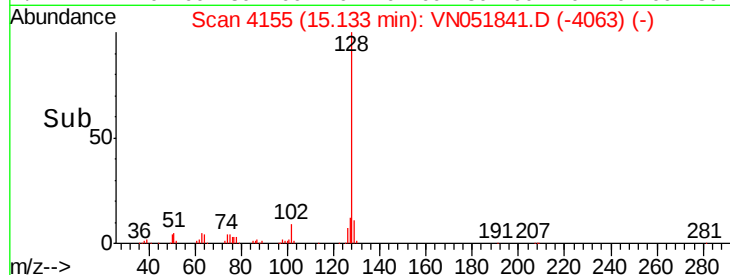
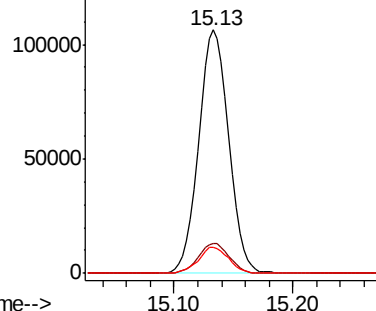
129 10.8 8.7 13.1



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: 16.341 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051841.D

Acq: 12 Oct 2018 19:32

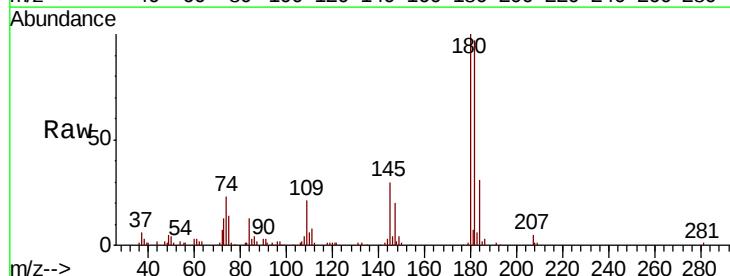
Tgt Ion:180 Resp: 105564

Ion Ratio Lower Upper

180 100

182 96.0 48.0 144.2

145 30.2 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

