

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051474.D
 Acq On : 25 Sep 2018 10:00
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Quant Time: Sep 26 01:29:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	106713	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	563895	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	509359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	214050	29.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.13%
60) 4-Bromofluorobenzene	12.40	95	235362	31.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.90%
63) Toluene-d8	10.09	98	728819	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	225660	49.374	ug/l 98
3) Chloromethane	2.06	50	416662	53.023	ug/l 99
4) Vinyl Chloride	2.19	62	452346	53.948	ug/l 100
5) Bromomethane	2.57	94	280040	51.101	ug/l 89
6) Chloroethane	2.70	64	286044	55.345	ug/l 99
7) Trichlorofluoromethane	3.02	101	578249	53.130	ug/l 97
8) Diethyl Ether	3.41	74	174776	53.411	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	306376	55.435	ug/l # 41
10) 1,1-Dichloroethene	3.74	96	278368	55.294	ug/l 100
11) Methyl Iodide	3.95	142	444486	59.875	ug/l 97
12) Methyl Acetate	4.33	43	239316	54.085	ug/l 92
13) Acrolein	3.61	56	165410	280.348	ug/l 91
14) Acrylonitrile	4.99	53	513962	285.947	ug/l # 60
15) Acetone	3.82	58	119164	269.187	ug/l 87
16) Carbon Disulfide	4.05	76	857659	53.711	ug/l 98
17) Allyl chloride	4.33	41	498281	56.068	ug/l 97
18) Methylene Chloride	4.55	84	335936	55.876	ug/l 93
19) trans-1,2-Dichloroethene	5.04	96	306451	56.233	ug/l 96
20) Diisopropyl ether	5.95	45	1052885	59.668	ug/l # 84
21) 1,1-Dichloroethane	5.85	63	602284	56.663	ug/l 96
22) cis-1,2-Dichloroethene	6.83	96	343942	56.402	ug/l 98
23) tert-Butyl Alcohol	4.79	59	92109	272.129	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	783103	57.114	ug/l # 62
25) Chloroform	7.37	83	607680	57.319	ug/l 97
26) Cyclohexane	7.65	56	535536	59.180	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	471576	59.394	ug/l 99
30) 2-Butanone	6.84	43	585360	285.416	ug/l # 99
31) 2,2-Dichloropropane	6.82	77	488254	57.651	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	523909	57.800	ug/l 98
33) Carbon Tetrachloride	7.77	117	480763	57.805	ug/l 91
34) Benzene	8.04	78	1370295	58.131	ug/l # 63
35) Methacrylonitrile	7.21	41	379356	128.359	ug/l # 59
36) 1,2-Dichloroethane	8.13	62	442341	57.630	ug/l 99
37) Trichloroethene	8.84	130	359145	57.484	ug/l 99
38) Methylcyclohexane	9.08	83	538753	58.535	ug/l 94
39) 1,2-Dichloropropane	9.12	63	376075	58.647	ug/l 95
40) Dibromomethane	9.21	93	211646	57.989	ug/l 97

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	468652	58.404	ug/l	93
42) Vinyl Acetate	5.90	43	3441137	301.744	ug/l	98
43) Ethyl Acetate	6.93	43	266817	62.527	ug/l	97
44) Isopropyl Acetate	8.17	43	480104	58.498	ug/l	100
45) 1,4-Dioxane	9.20	88	59979	1201.254	ug/l	90
46) Methyl methacrylate	9.20	41	243178	59.833	ug/l	97
47) n-amyl Acetate	12.07	43	406074	61.918	ug/l #	72
48) t-1,3-Dichloropropene	10.38	75	461448	57.911	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	548471	59.465	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	302034	57.878	ug/l	93
51) Ethyl methacrylate	10.43	69	375780	60.844	ug/l	97
52) 1,3-Dichloropropane	10.71	76	518693	58.917	ug/l	98
53) Dibromochloromethane	10.90	129	355307	59.191	ug/l	96
54) 1,2-Dibromoethane	11.00	107	294574	58.503	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	939371	308.019	ug/l	99
56) Bromoform	12.12	173	240283	59.375	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	1336746	298.621	ug/l	95
59) 2-Hexanone	10.75	43	876567	297.527	ug/l	95
61) Tetrachloroethene	10.63	164	345683	58.334	ug/l	96
62) Toluene	10.16	91	1517900	58.211	ug/l	98
64) Chlorobenzene	11.43	112	927678	58.027	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	356933	57.746	ug/l	99
66) Ethyl Benzene	11.51	91	1608929	59.810	ug/l	98
67) m/p-Xylenes	11.62	106	1273116	122.934	ug/l	99
68) o-Xylene	11.95	106	597004	60.527	ug/l	95
69) Styrene	11.96	104	964121	61.879	ug/l	99
70) Isopropylbenzene	12.25	105	1620720	61.397	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	356094	57.307	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	448868	91.603	ug/l	74
73) Bromobenzene	12.53	156	393161	59.098	ug/l	96
74) n-propylbenzene	12.59	91	1867743	60.861	ug/l	98
75) 2-Chlorotoluene	12.67	91	1094381	60.428	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	1359568	62.419	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	100279	59.341	ug/l	97
78) 4-Chlorotoluene	12.77	91	1098028	61.128	ug/l	97
79) tert-butylbenzene	12.99	119	1162286	61.288	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	1376785	62.876	ug/l	99
81) sec-Butylbenzene	13.17	105	1611258	61.763	ug/l	99
82) p-Isopropyltoluene	13.29	119	1414440	62.807	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	701037	60.078	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	663341	60.528	ug/l	98
85) n-Butylbenzene	13.61	91	1159418	62.705	ug/l	97
86) Hexachloroethane	13.87	117	259912	57.596	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	668700	60.451	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	52569	57.321	ug/l #	90
89) 1,2,4-Trichlorobenzene	14.91	180	337322	61.220	ug/l	99
90) Hexachlorobutadiene	15.01	225	249760	58.487	ug/l	97
91) Naphthalene	15.13	128	600609	57.768	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	338856	60.920	ug/l	93

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Sep 26 01:19:41 2018
Response via : Initial Calibration

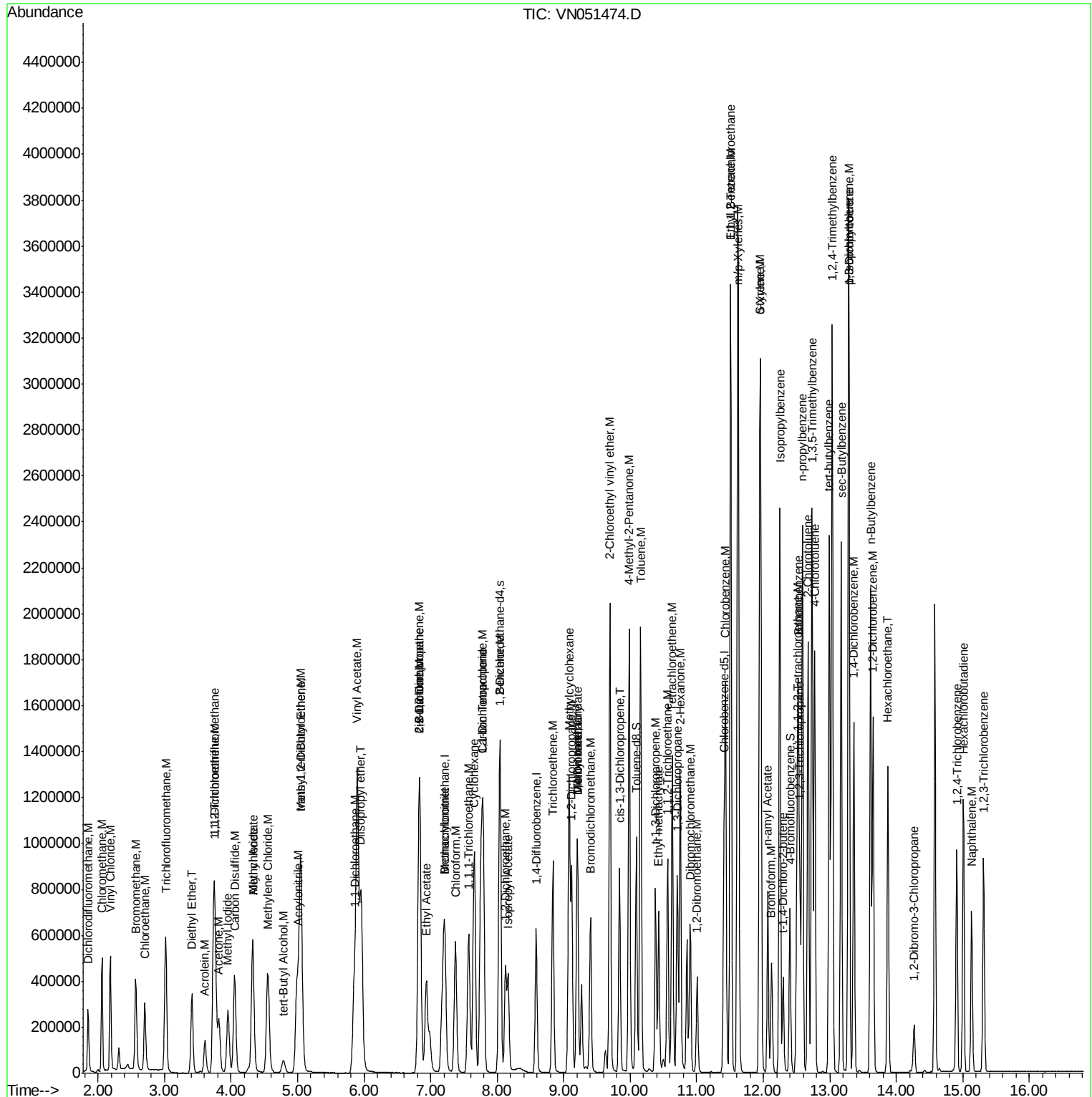
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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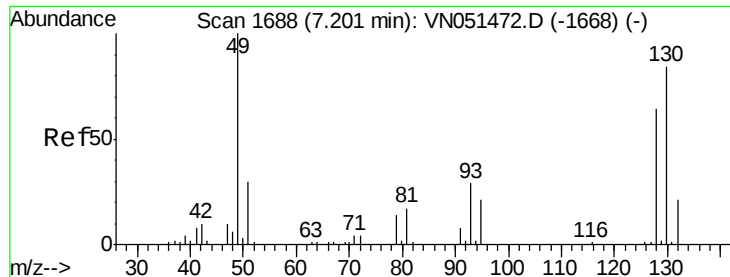
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Sep 26 01:29:26 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

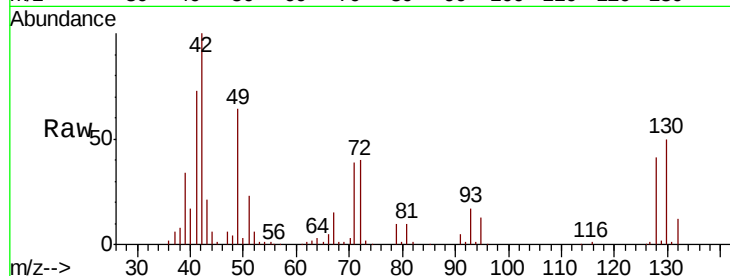
Tot Ion:128 Resp: 106713

Ion Ratio Lower Upper

128 100

49 160.7 0.0 403.3

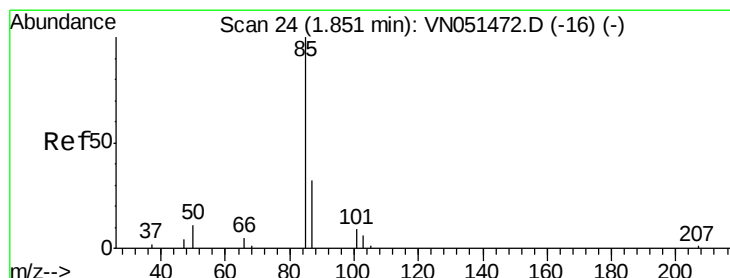
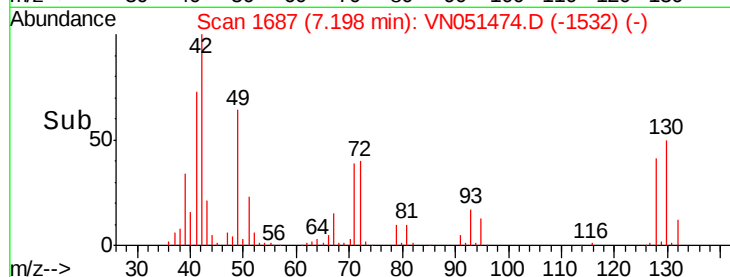
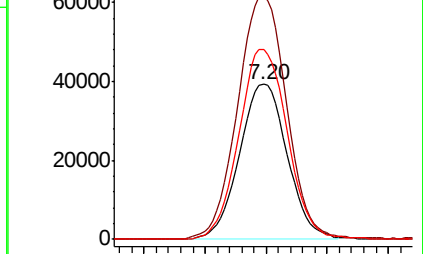
130 124.3 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 49.374 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051474.D

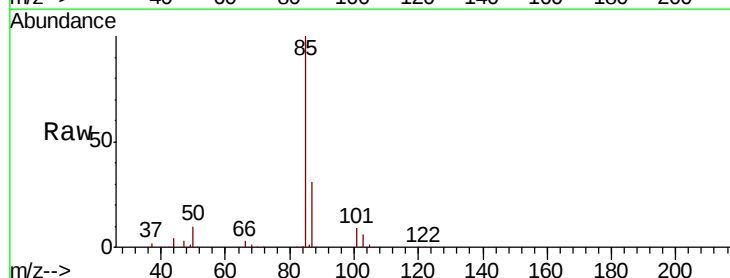
Acq: 25 Sep 2018 10:00

Tgt Ion: 85 Resp: 225660

Ion Ratio Lower Upper

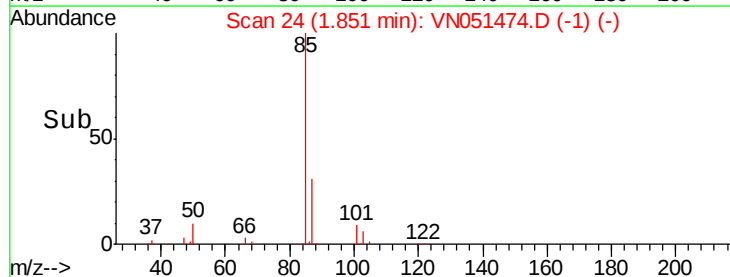
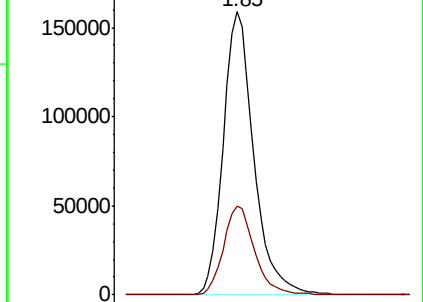
85 100

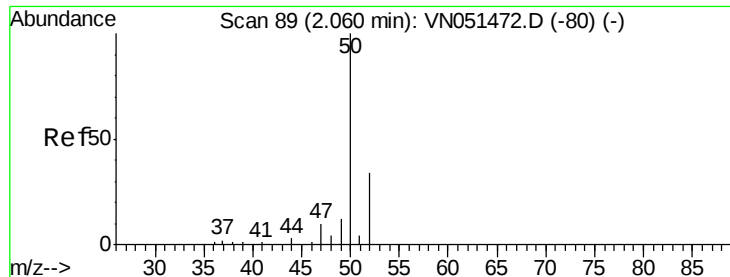
87 31.5 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): V

Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 53.023 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

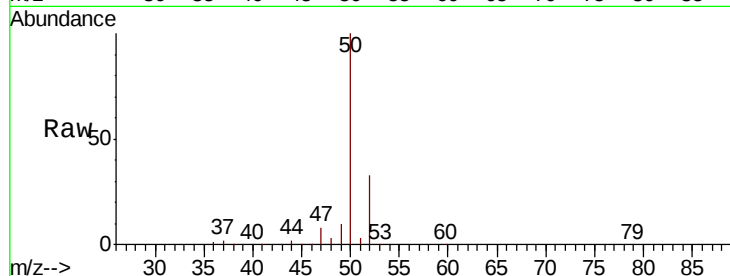
VSTDIC050

Tot Ion: 50 Resp: 416662

Ion Ratio Lower Upper

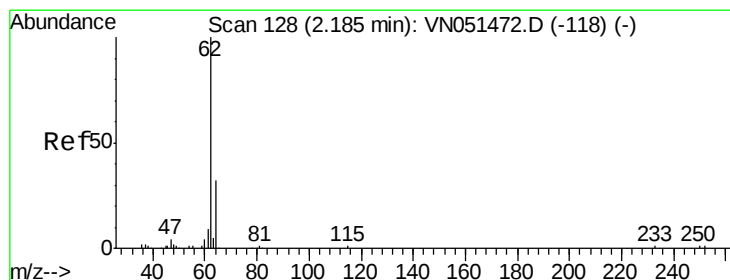
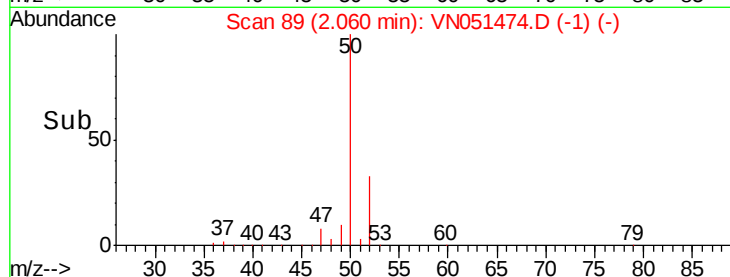
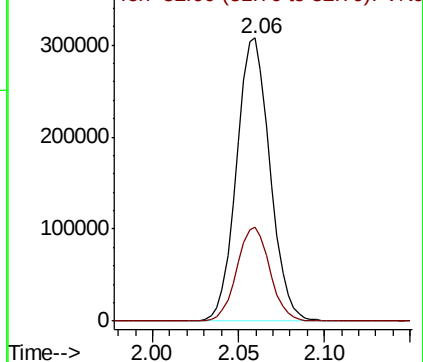
50 100

52 33.2 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 53.948 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051474.D

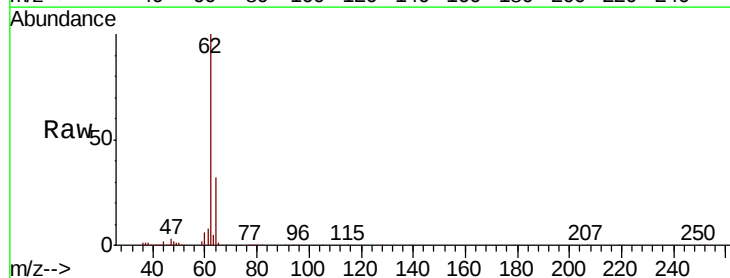
Acq: 25 Sep 2018 10:00

Tgt Ion: 62 Resp: 452346

Ion Ratio Lower Upper

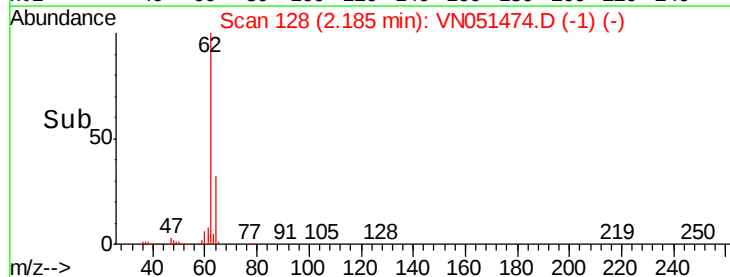
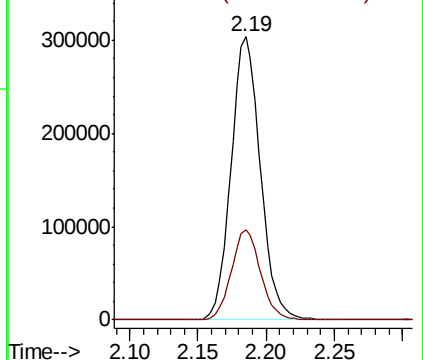
62 100

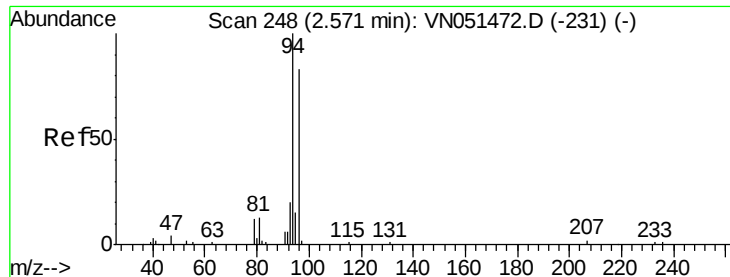
64 31.9 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 51.101 ug/l

RT: 2.57 min Scan# 247

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

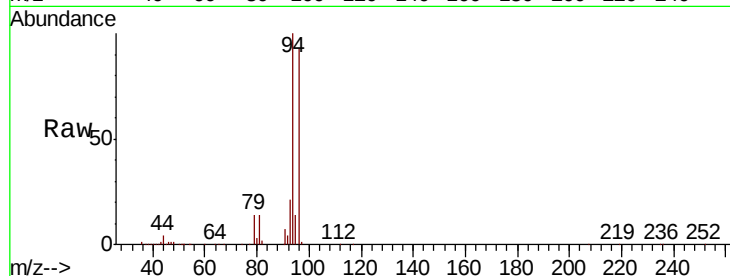
VSTDIC050

Tot Ion: 94 Resp: 280040

Ion Ratio Lower Upper

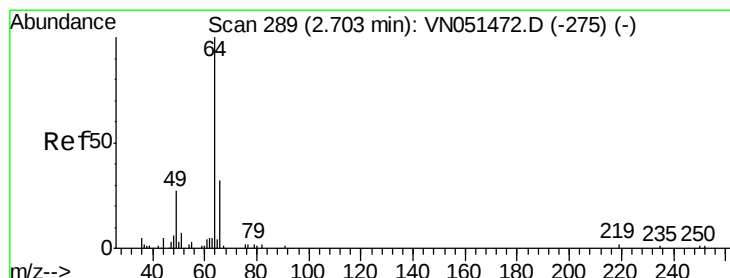
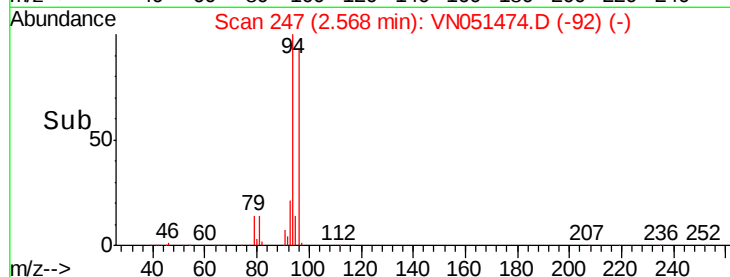
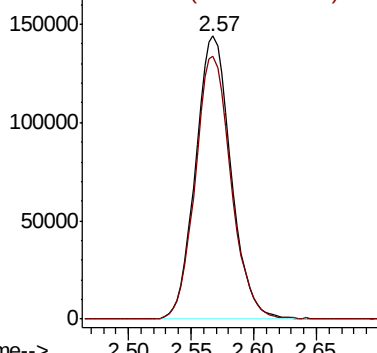
94 100

96 92.9 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 55.345 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051474.D

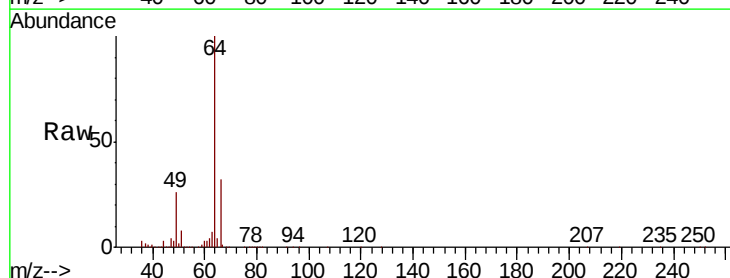
Acq: 25 Sep 2018 10:00

Tgt Ion: 64 Resp: 286044

Ion Ratio Lower Upper

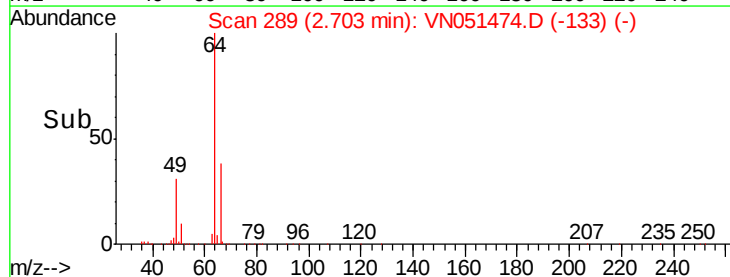
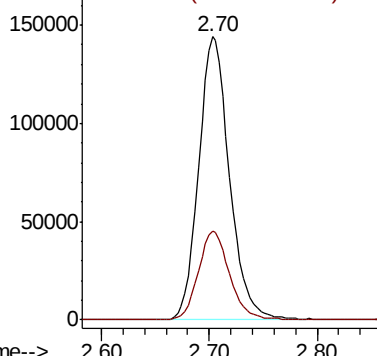
64 100

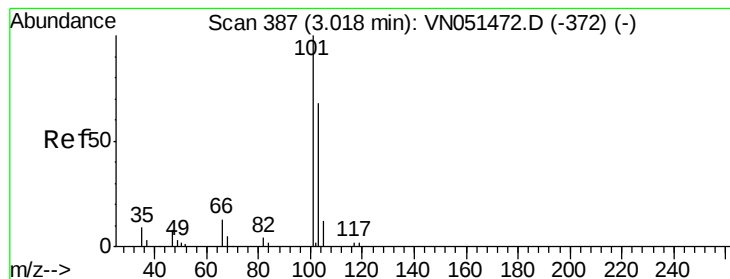
66 31.5 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



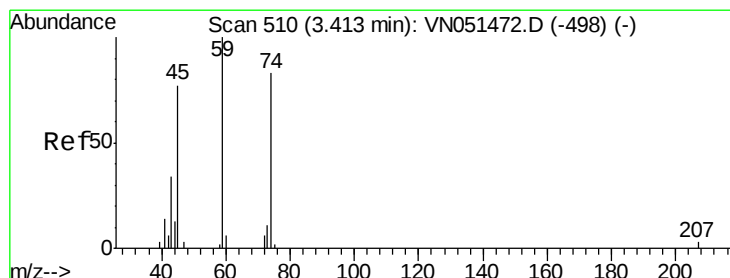
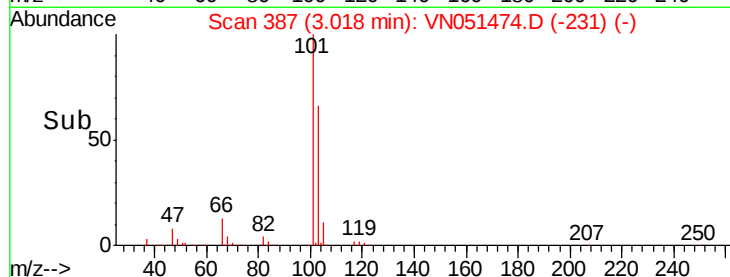
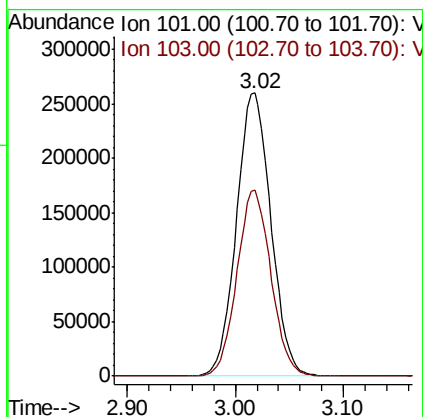
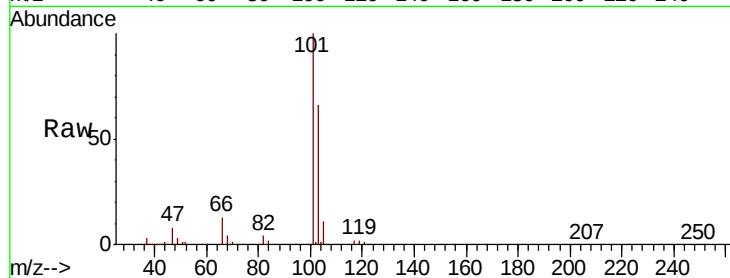


#7

Trichlorofluoromethane
 Concen: 53.130 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Instrument :
 MSVOA_N
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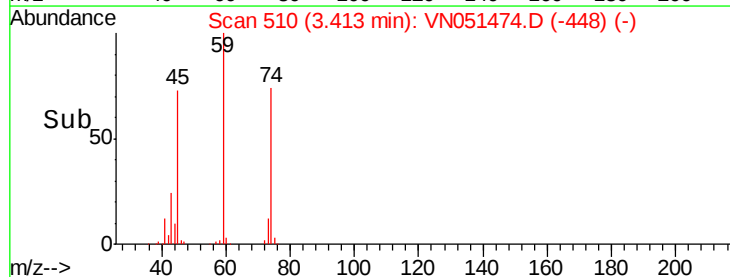
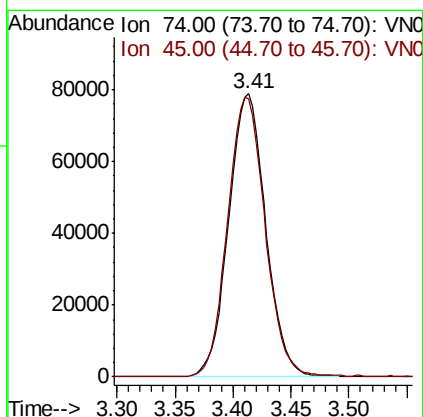
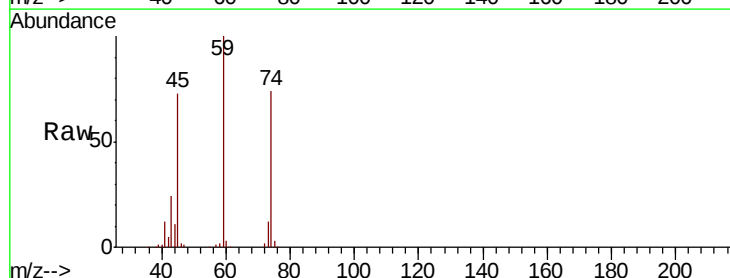
Tot Ion:101 Resp: 578249
 Ion Ratio Lower Upper
 101 100
 103 65.7 54.8 82.2

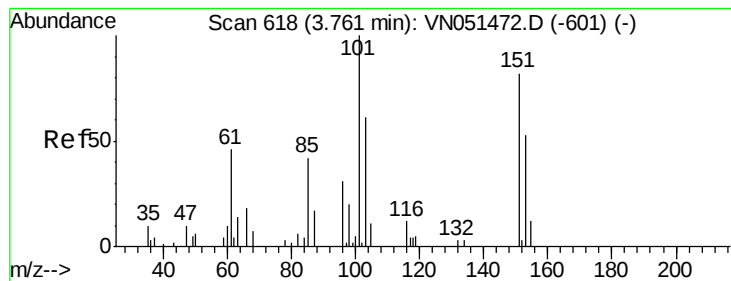


#8

Diethyl Ether
 Concen: 53.411 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 74 Resp: 174776
 Ion Ratio Lower Upper
 74 100
 45 100.1 20.7 186.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 55.435 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

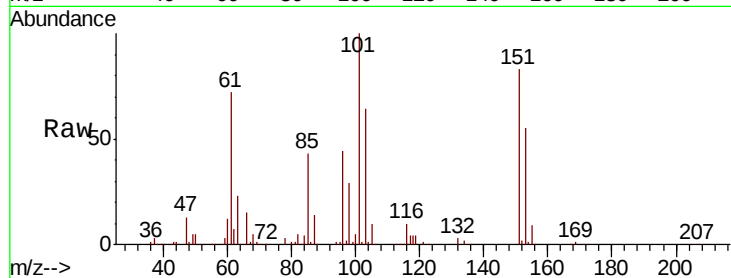
Tot Ion:101 Resp: 306376

Ion Ratio Lower Upper

101 100

85 43.5 0.0 46.0

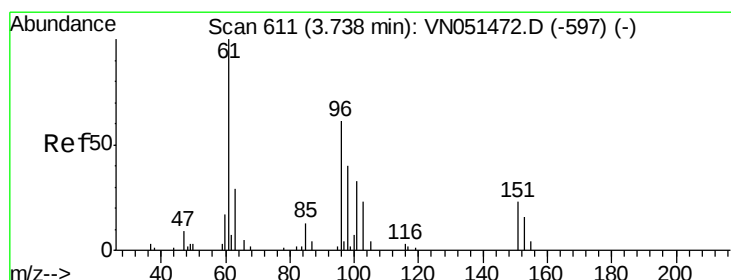
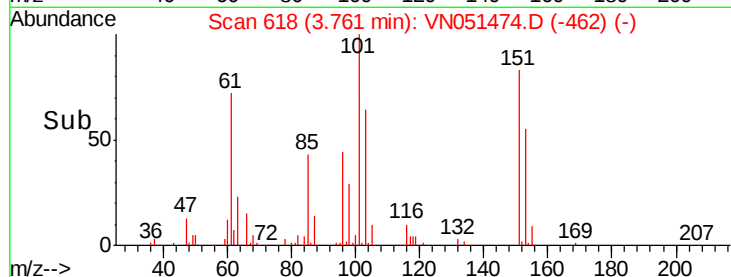
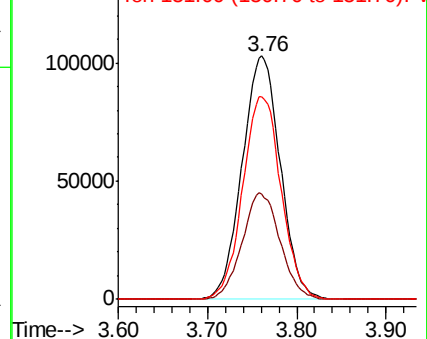
151 83.8 0.0 82.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 55.294 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

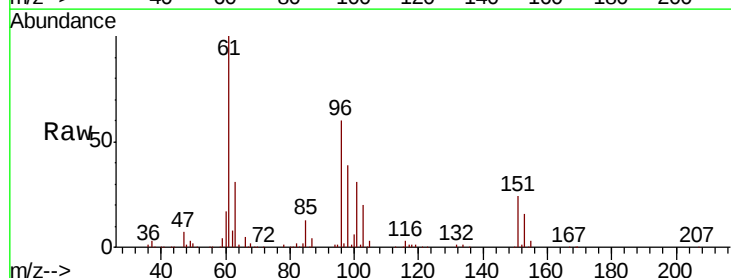
Tgt Ion: 96 Resp: 278368

Ion Ratio Lower Upper

96 100

61 166.4 133.0 199.6

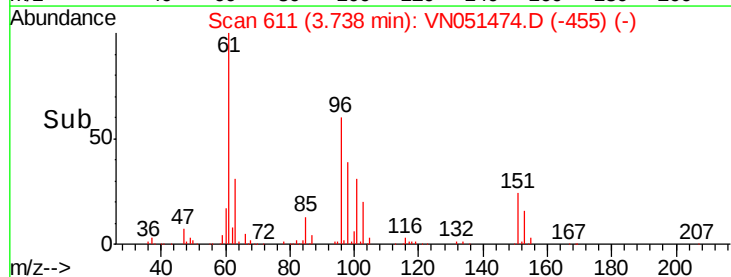
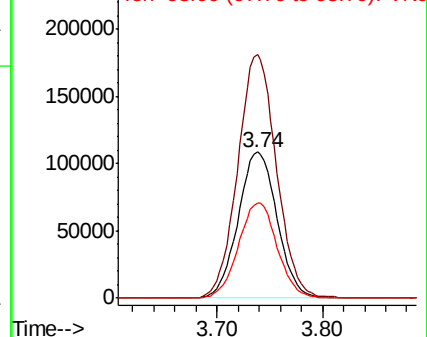
98 65.1 52.6 78.8

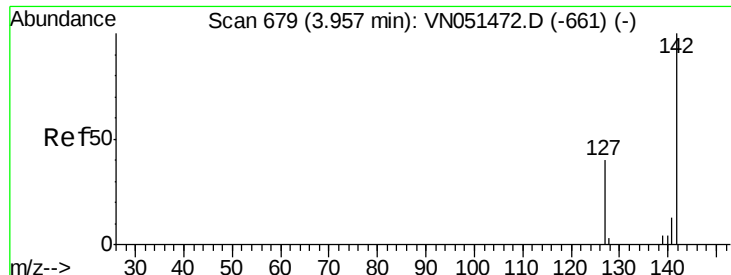


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

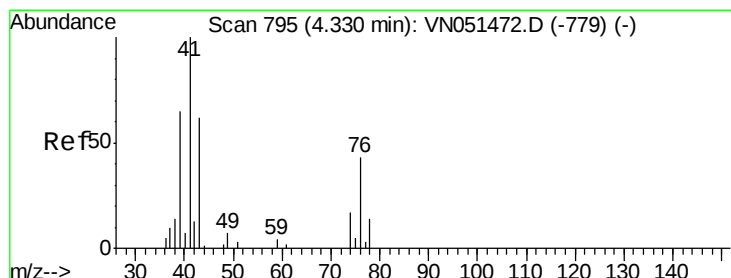
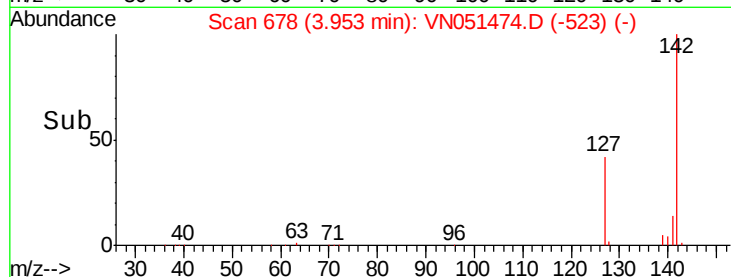
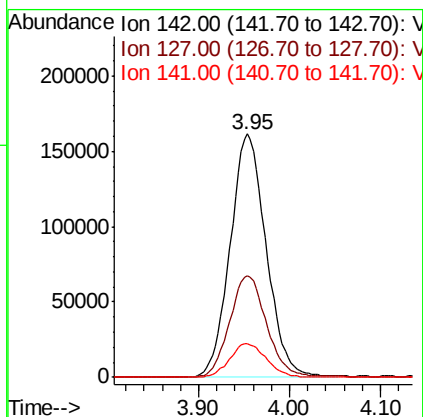
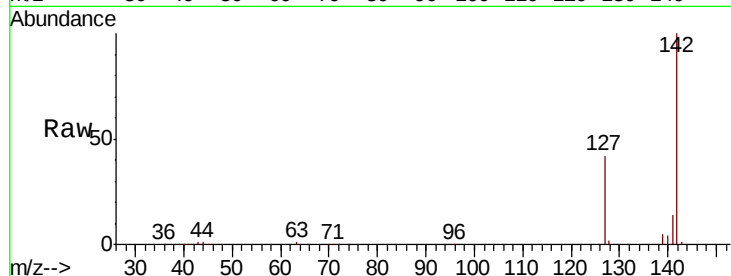




#11
Methvl Iodide
Concen: 59.875 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

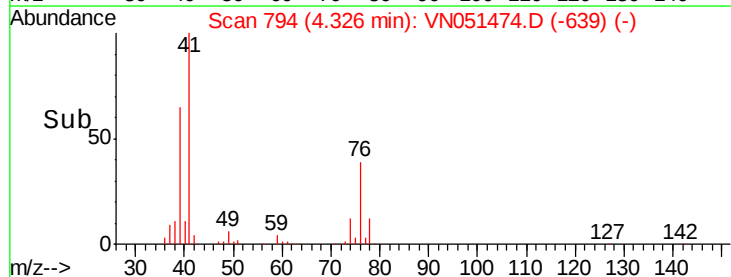
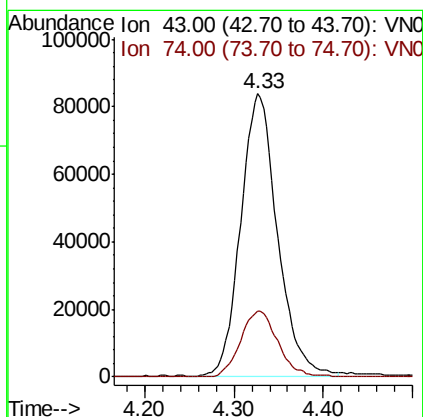
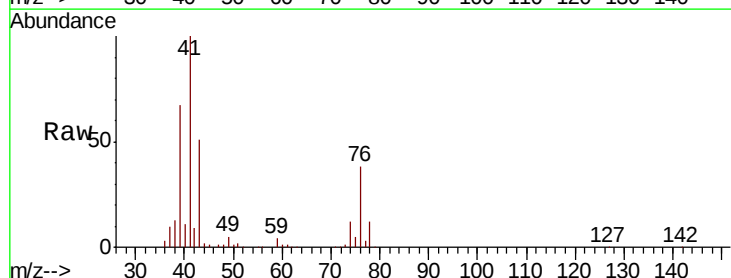
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

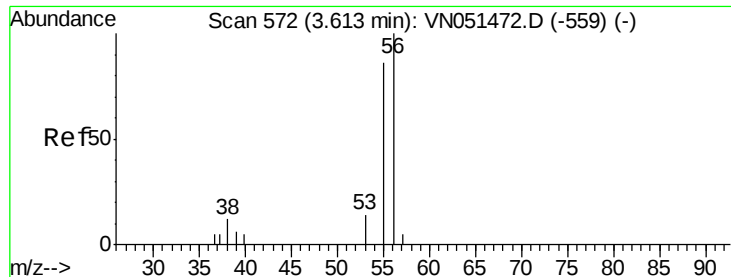
Tot Ion:142 Resp: 444486
Ion Ratio Lower Upper
142 100
127 41.3 19.7 59.0
141 13.7 6.3 18.9



#12
Methyl Acetate
Concen: 54.085 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 43 Resp: 239316
Ion Ratio Lower Upper
43 100
74 23.3 21.8 32.6

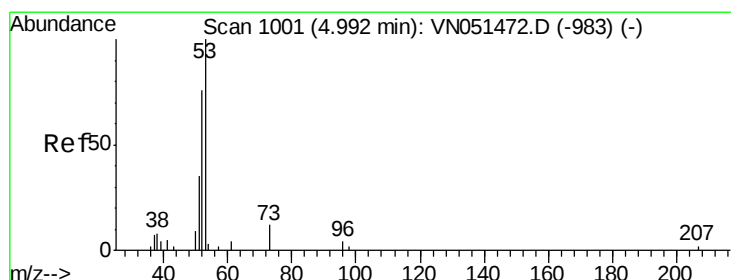
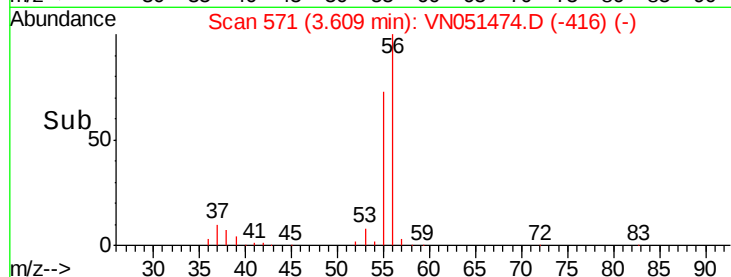
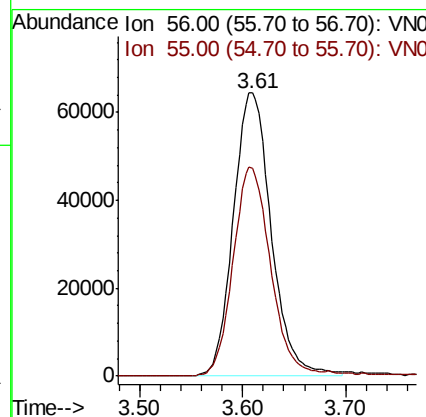
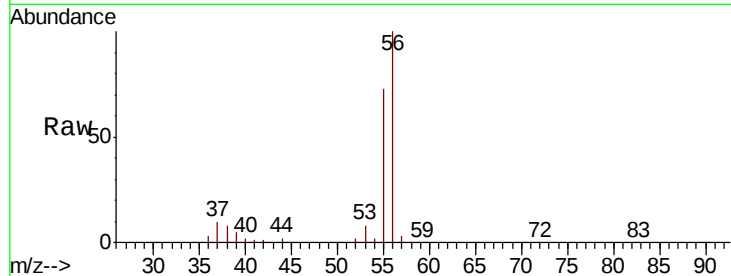




#13
Acrolein
Concen: 280.348 ug/l
RT: 3.61 min Scan# 571
Delta R.T. -0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

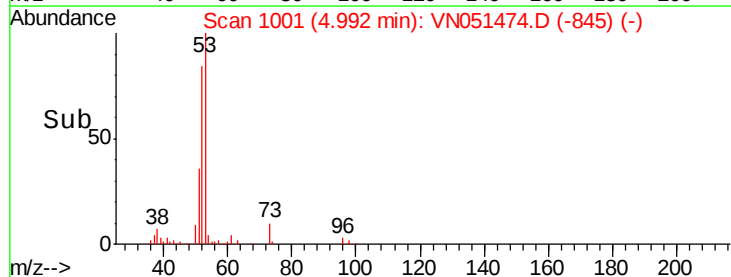
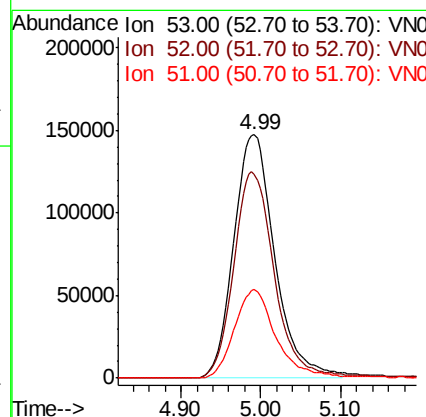
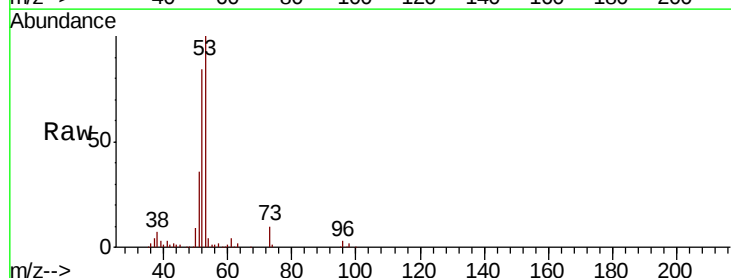
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

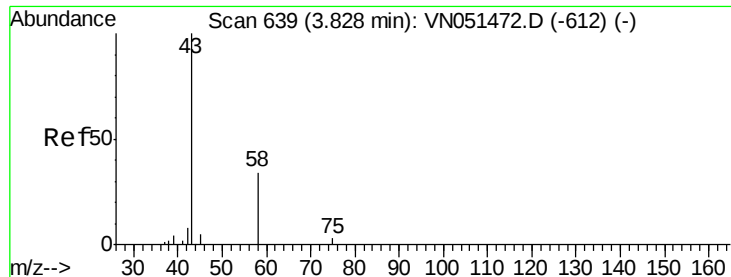
Tot Ion: 56 Resp: 165410
Ion Ratio Lower Upper
56 100
55 72.4 64.0 96.0



#14
Acrylonitrile
Concen: 285.947 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 53 Resp: 513962
Ion Ratio Lower Upper
53 100
52 83.6 18.3 54.8#
51 36.8 19.7 59.1





#15

Acetone

Concen: 269.187 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.01 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

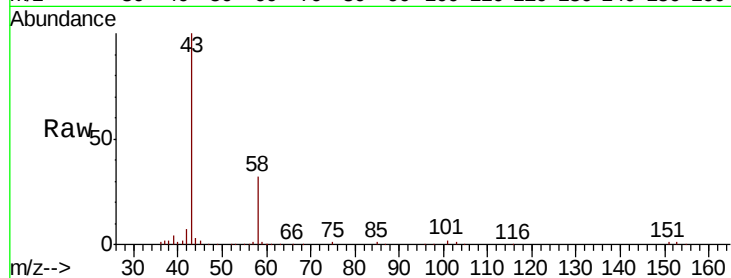
VSTDIC050

Tot Ion: 58 Resp: 119164

Ion Ratio Lower Upper

58 100

43 314.2 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051472.D (-612) (-)

Ion 43.00 (42.70 to 43.70): VN051472.D (-612) (-)

150000

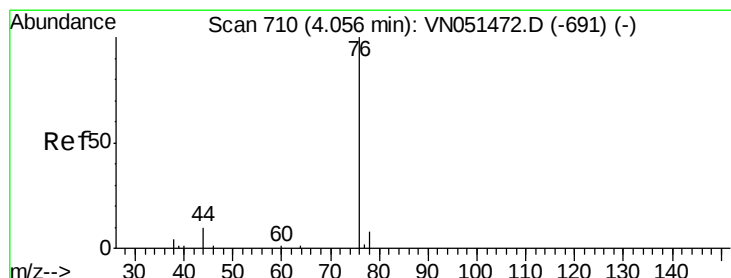
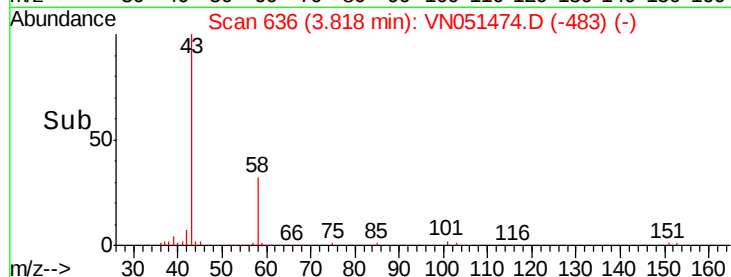
100000

50000

0

3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 53.711 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051474.D

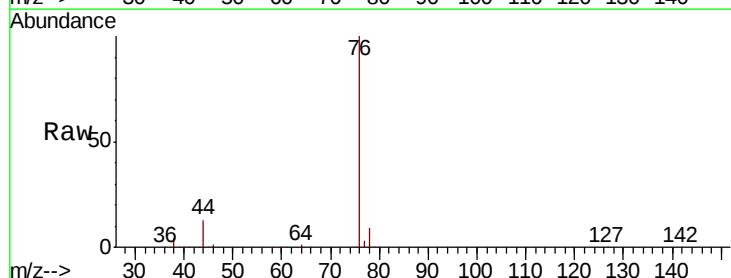
Acq: 25 Sep 2018 10:00

Tgt Ion: 76 Resp: 857659

Ion Ratio Lower Upper

76 100

78 9.2 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051472.D (-691) (-)

Ion 78.00 (77.70 to 78.70): VN051472.D (-691) (-)

300000

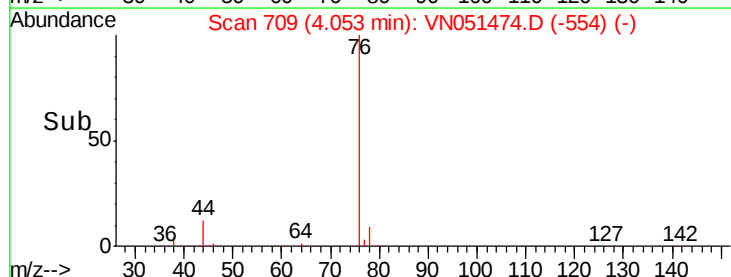
200000

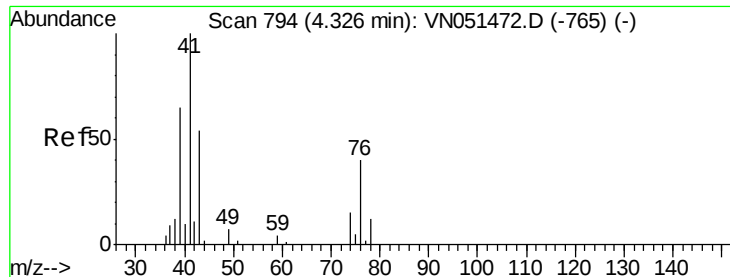
100000

0

4.00 4.10

Time-->





#17

Allvl chloride

Concen: 56.068 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

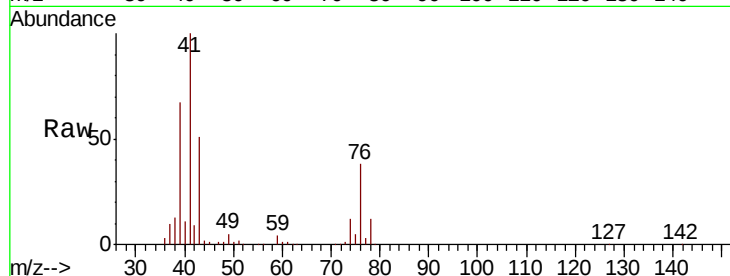
Tot Ion: 41 Resp: 498281

Ion Ratio Lower Upper

41 100

39 66.7 32.6 97.8

76 37.8 20.2 60.5

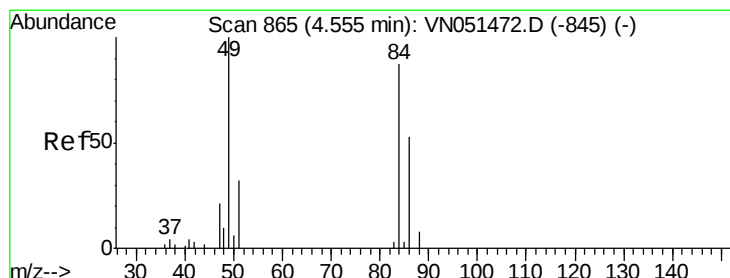
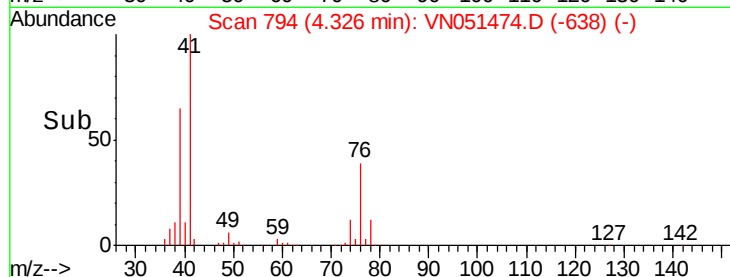
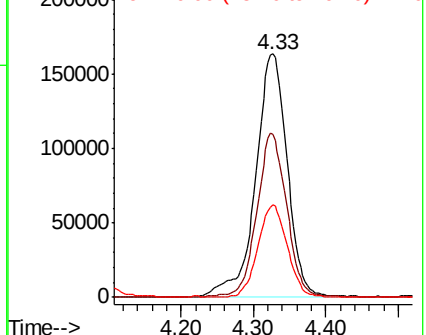


Abundance

Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 76.00 (75.70 to 76.70): VNO



#18

Methylene Chloride

Concen: 55.876 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Tgt Ion: 84 Resp: 335936

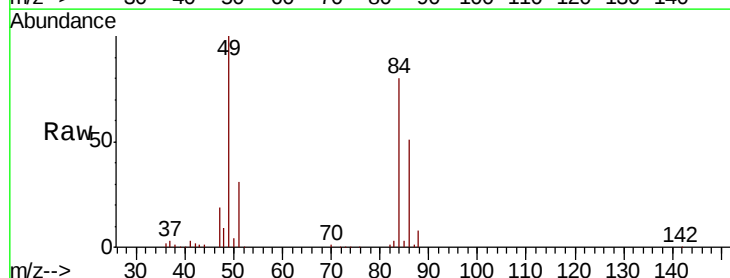
Ion Ratio Lower Upper

84 100

49 125.2 91.6 137.4

51 38.7 29.8 44.6

86 63.5 48.2 72.4



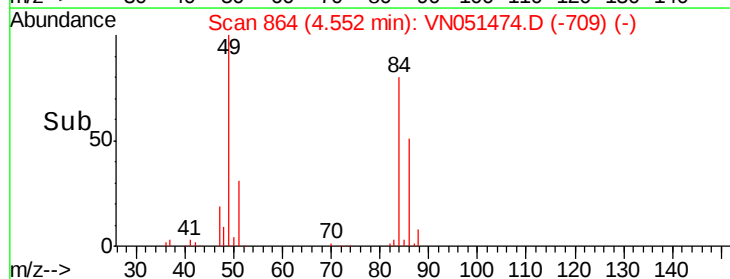
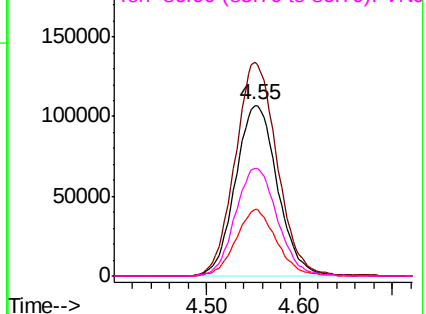
Abundance

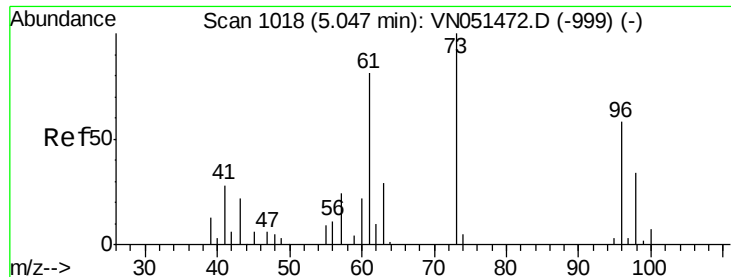
Ion 84.00 (83.70 to 84.70): VNO

Ion 49.00 (48.70 to 49.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

Ion 86.00 (85.70 to 86.70): VNO

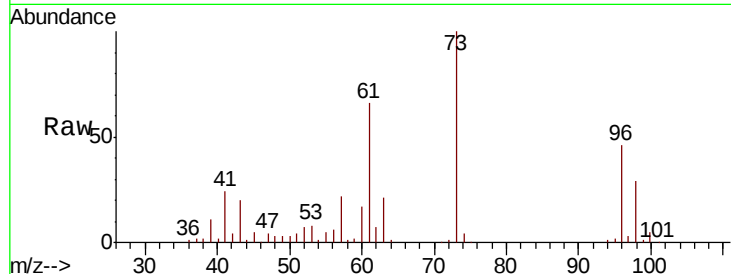




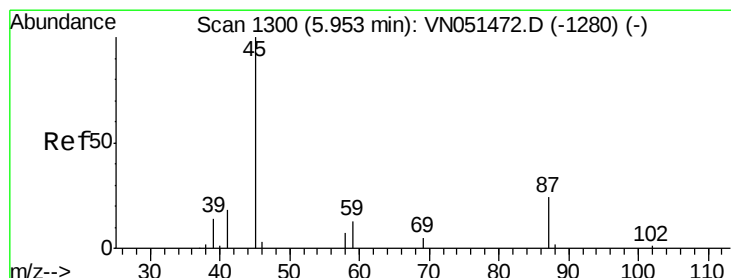
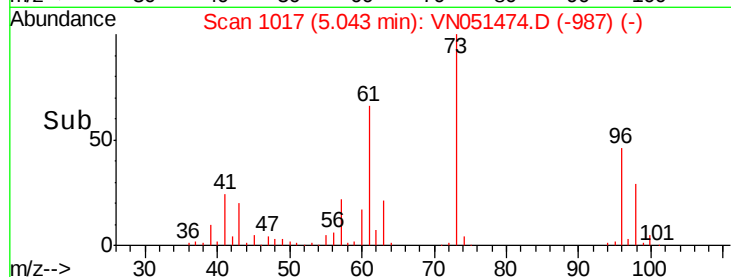
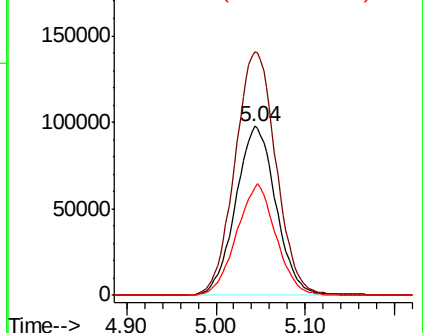
#19
trans-1,2-Dichloroethene
Concen: 56.233 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 96 Resp: 306451
Ion Ratio Lower Upper
96 100
61 143.5 112.3 168.5
98 64.1 47.1 70.7

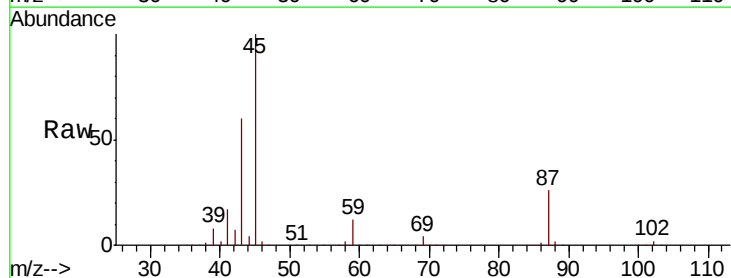


Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

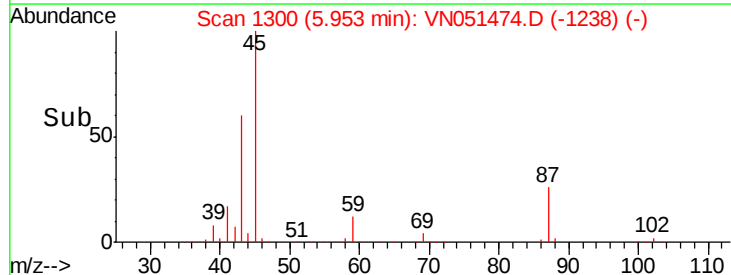
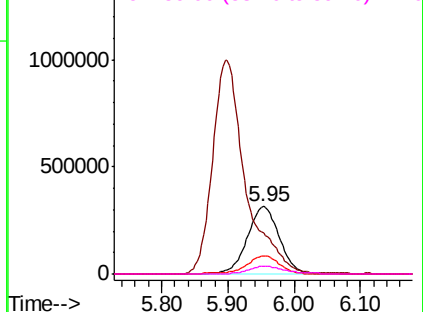


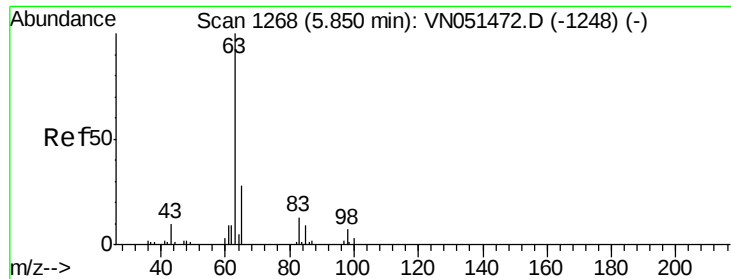
#20
Diisopropyl ether
Concen: 59.668 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 45 Resp: 1052885
Ion Ratio Lower Upper
45 100
43 58.5 62.1 93.1#
87 26.3 19.9 29.9
59 11.7 9.8 14.6



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

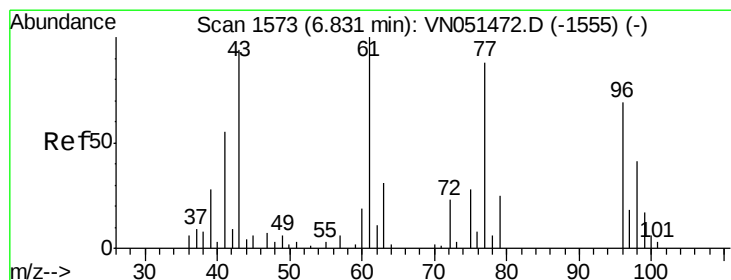
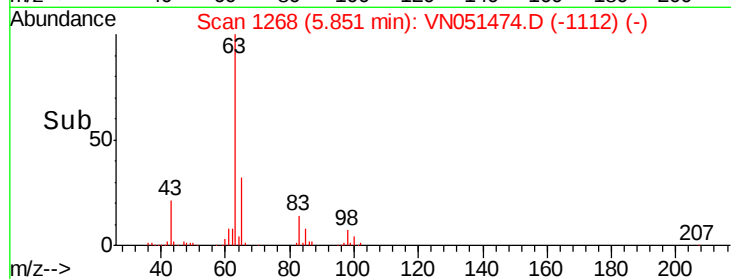
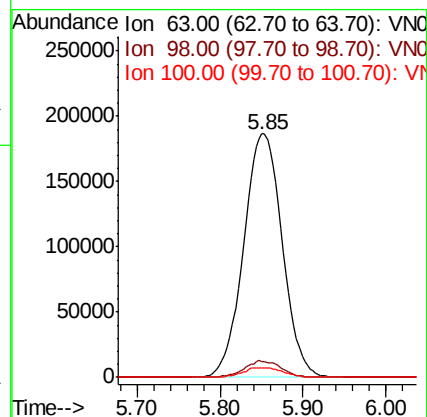
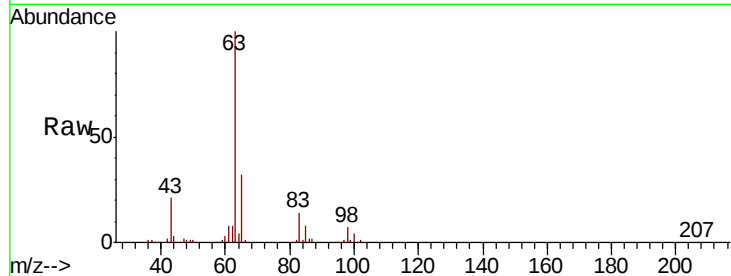




#21
 1,1-Dichloroethane
 Concen: 56.663 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

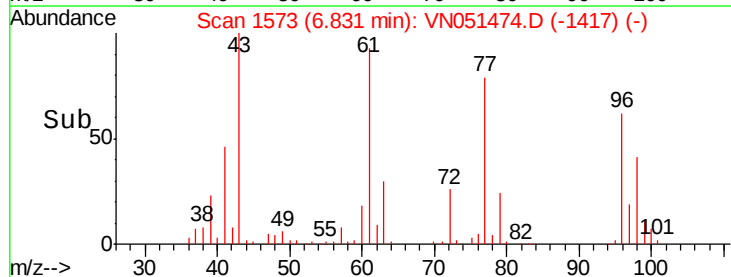
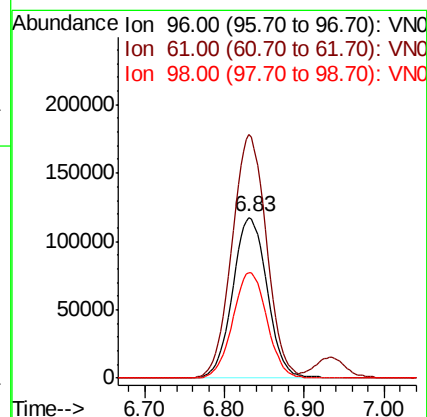
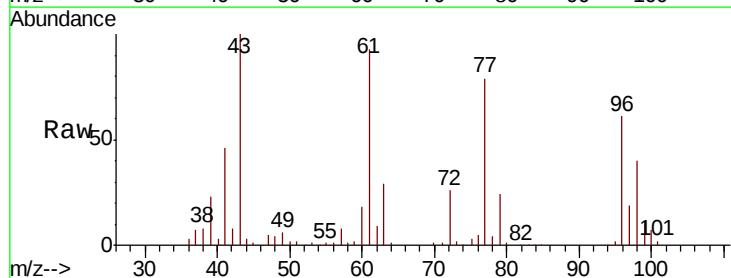
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

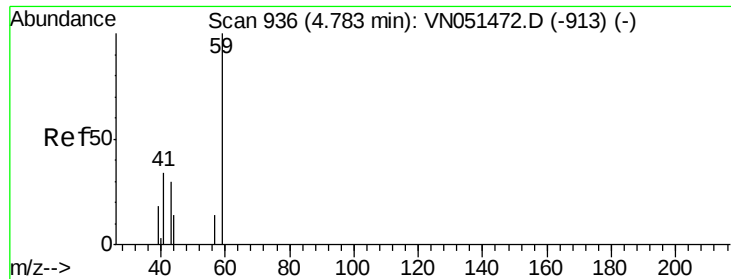
Tot Ion:	63	Resp:	602284
Ion	Ratio	Lower	Upper
63	100		
98	6.7	4.1	12.3
100	4.0	1.6	4.7



#22
 cis-1,2-Dichloroethene
 Concen: 56.402 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion:	96	Resp:	343942
Ion	Ratio	Lower	Upper
96	100		
61	151.2	124.5	186.7
98	64.9	51.9	77.9



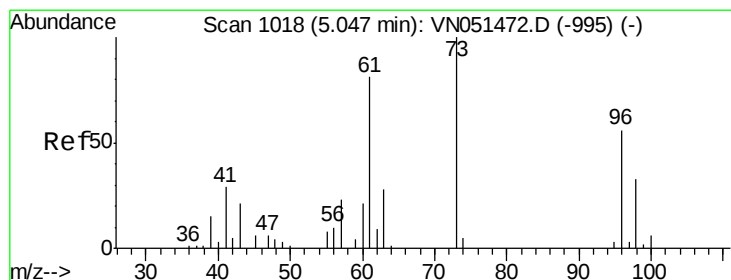
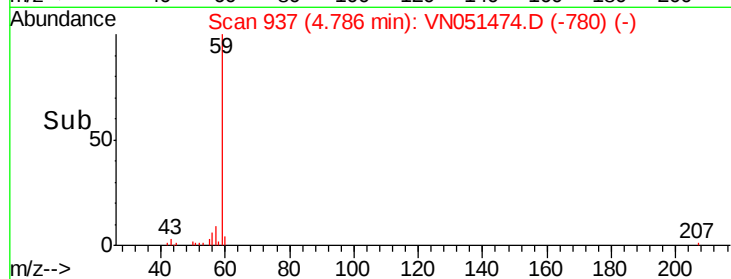
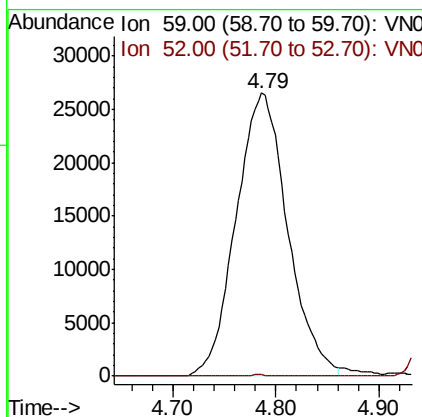
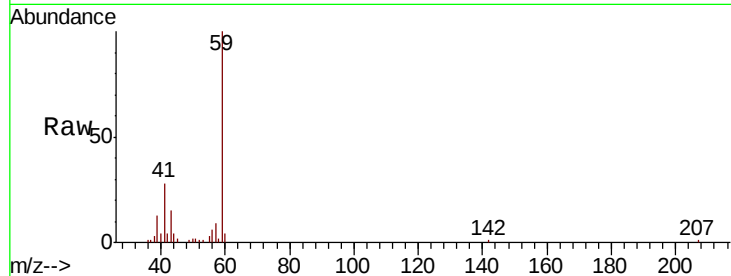


#23

tert-Butyl Alcohol
 Concen: 272.129 ug/l
 RT: 4.79 min Scan# 937
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

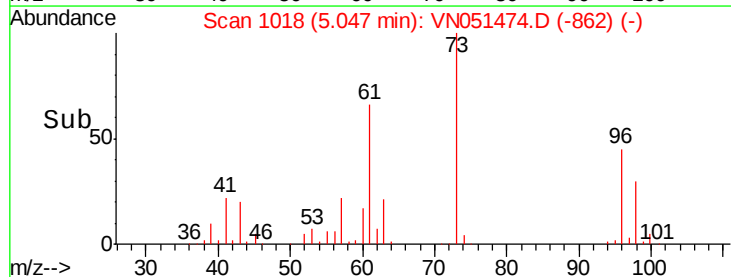
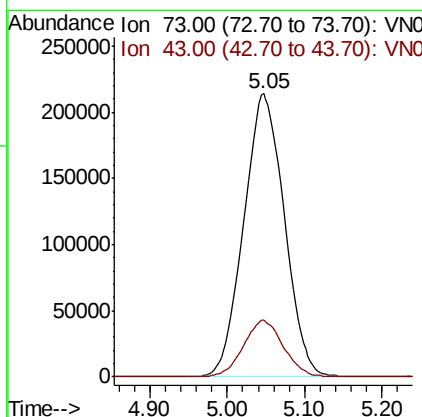
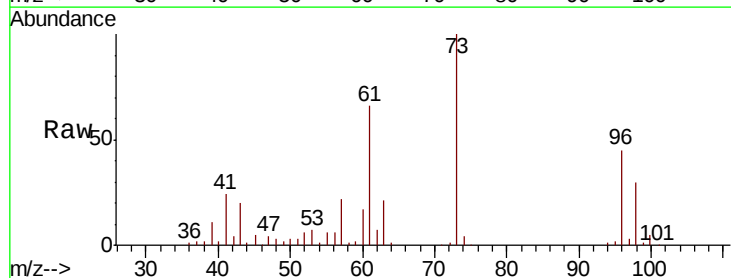
Tot Ion: 59 Resp: 92109
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#

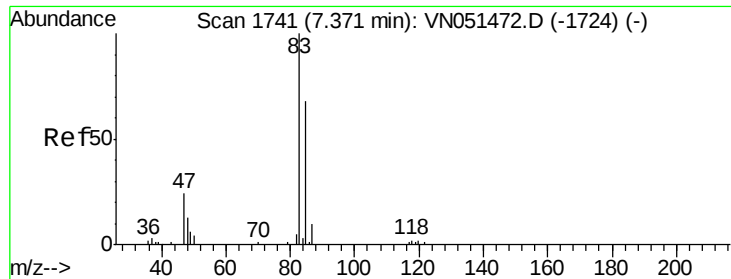


#24

Methyl tert-Butyl Ether
 Concen: 57.114 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 73 Resp: 783103
 Ion Ratio Lower Upper
 73 100
 43 19.6 5.4 8.0#





#25

Chloroform

Concen: 57.319 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

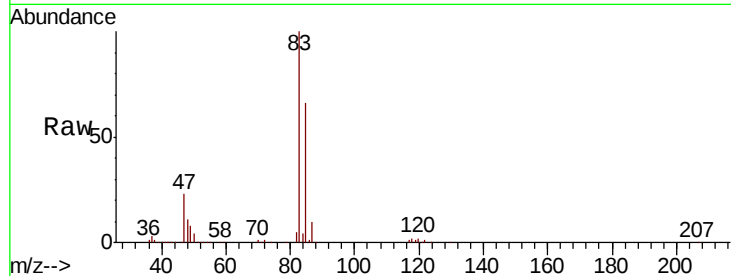
VSTDIC050

Tot Ion: 83 Resp: 607680

Ion Ratio Lower Upper

83 100

85 66.1 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VN051474.D (-1724) (-)

Ion 85.00 (84.70 to 85.70): VN051474.D (-1724) (-)

7.37

250000

200000

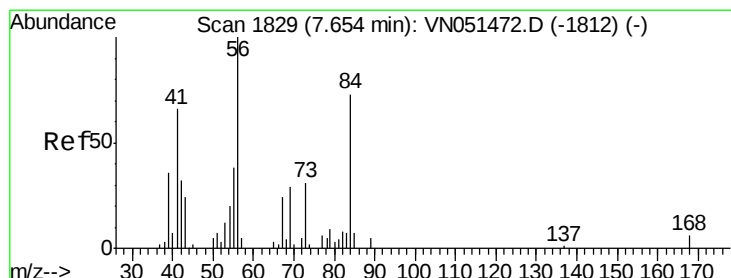
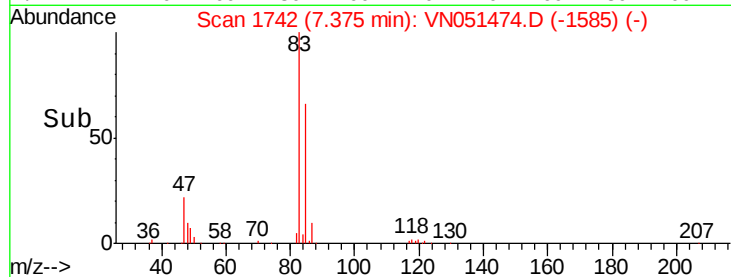
150000

100000

50000

0

Time-->



#26

Cyclohexane

Concen: 59.180 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

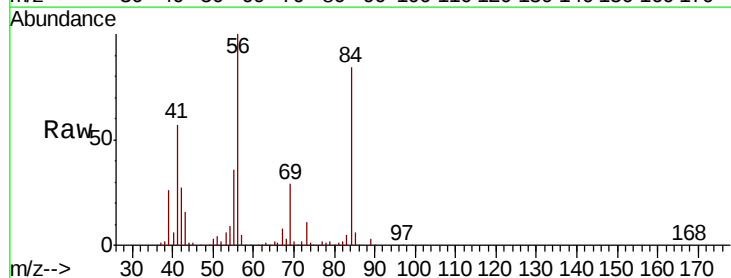
Tgt Ion: 56 Resp: 535536

Ion Ratio Lower Upper

56 100

89 3.3 1.5 2.3#

84 82.9 64.2 96.4



Abundance Ion 56.00 (55.70 to 56.70): VN051474.D (-1829) (-)

Ion 89.00 (88.70 to 89.70): VN051474.D (-1829) (-)

Ion 84.00 (83.70 to 84.70): VN051474.D (-1829) (-)

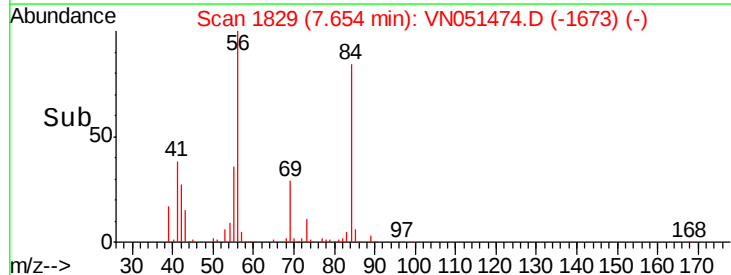
300000

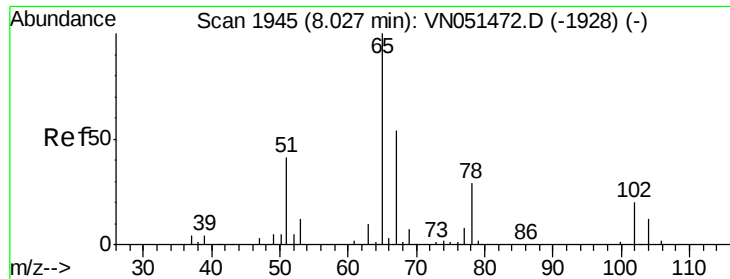
200000

100000

0

Time-->

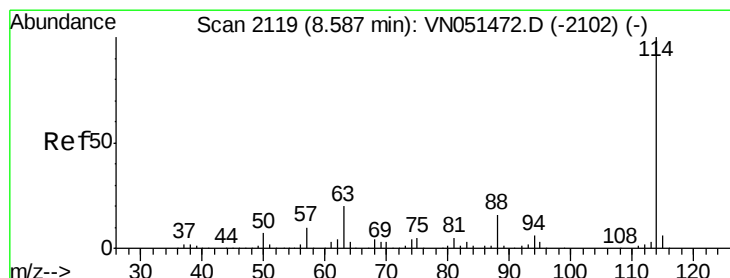
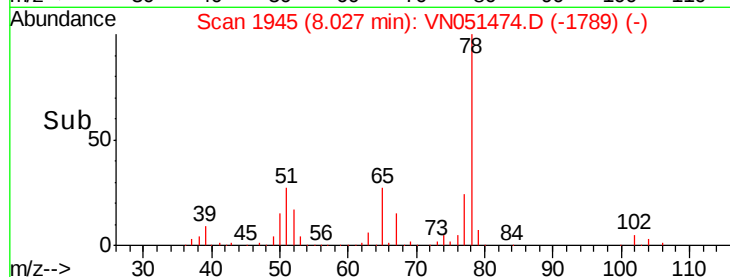
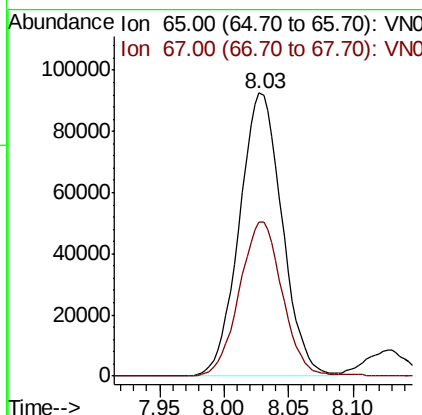
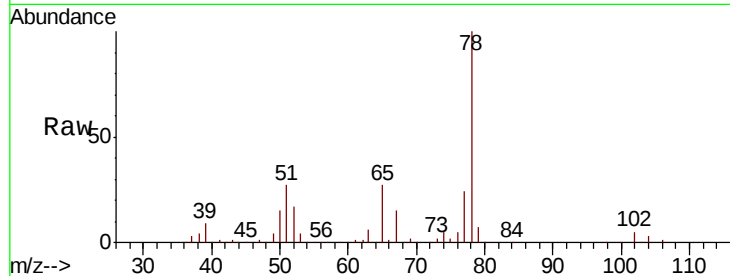




#27
 1,2-Dichloroethane-d4
 Concen: 29.145 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

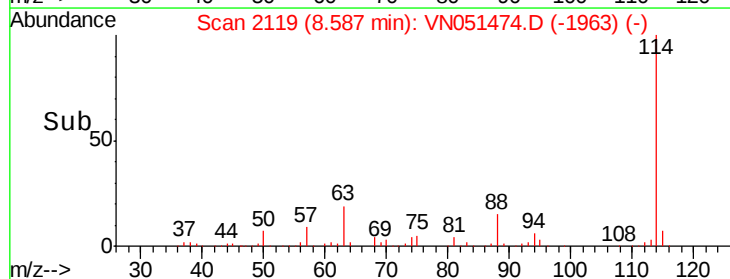
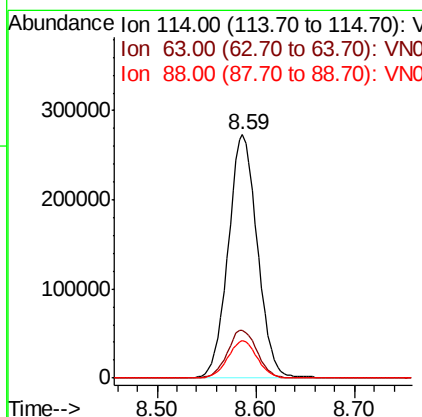
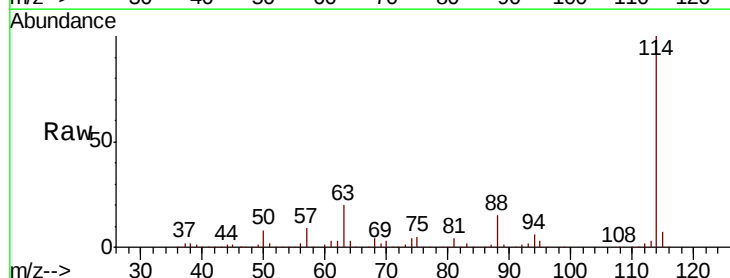
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

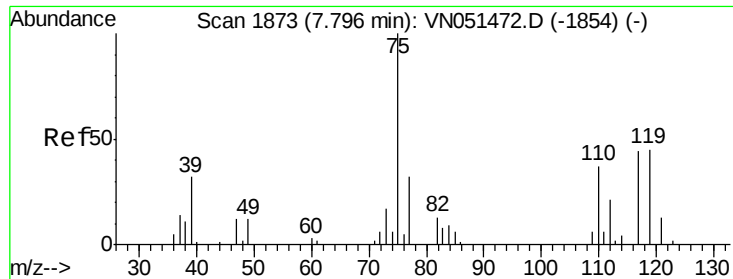
Tot Ion: 65 Resp: 214050
 Ion Ratio Lower Upper
 65 100
 67 54.4 41.8 62.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 114 Resp: 563895
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.2 24.2
 88 15.3 12.2 18.4

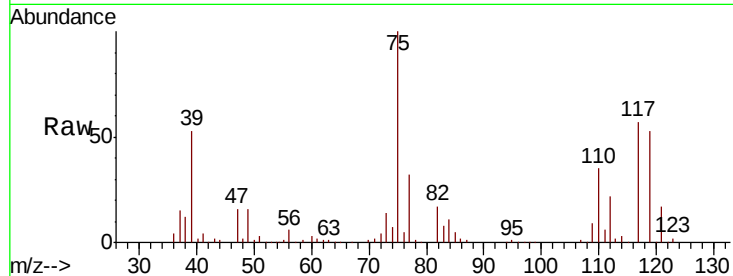




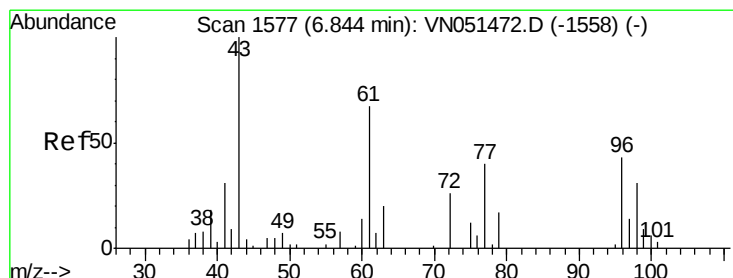
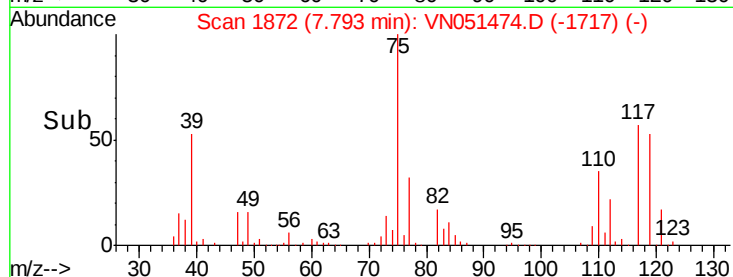
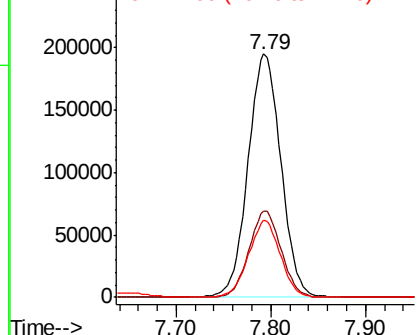
#29
 1,1-Dichloropropene
 Concen: 59.394 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion: 75 Resp: 471576
 Ion Ratio Lower Upper
 75 100
 110 34.6 0.0 70.8
 77 30.8 0.0 61.6

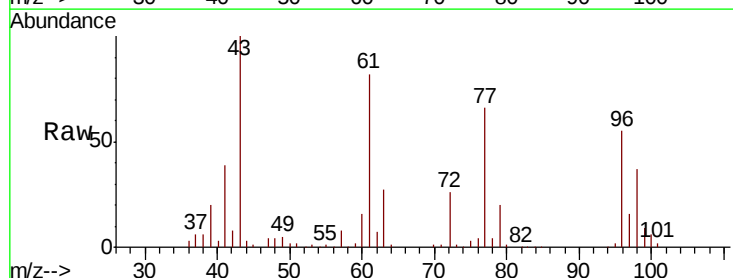


Abundance Ion 75.00 (74.70 to 75.70): VN0
 Ion 110.00 (109.70 to 110.70): V
 Ion 77.00 (76.70 to 77.70): VN0

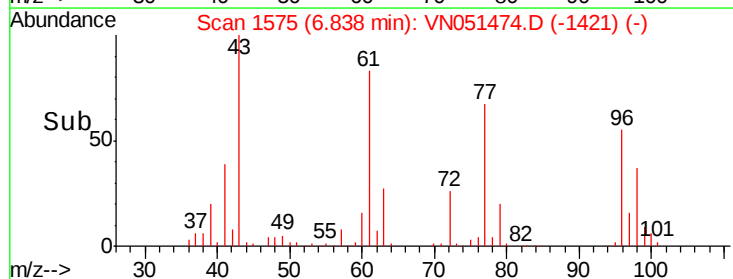
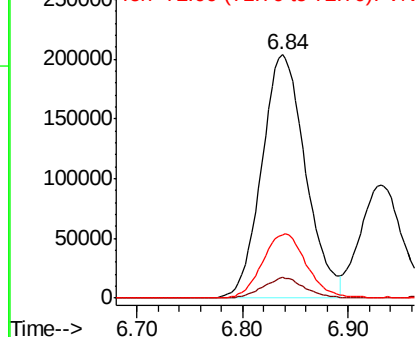


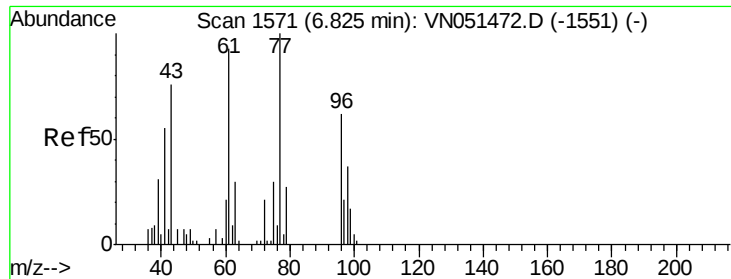
#30
 2-Butanone
 Concen: 285.416 ug/l
 RT: 6.84 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 43 Resp: 585360
 Ion Ratio Lower Upper
 43 100
 57 8.0 4.5 6.7#
 72 26.8 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0
 Ion 72.00 (71.70 to 72.70): VN0

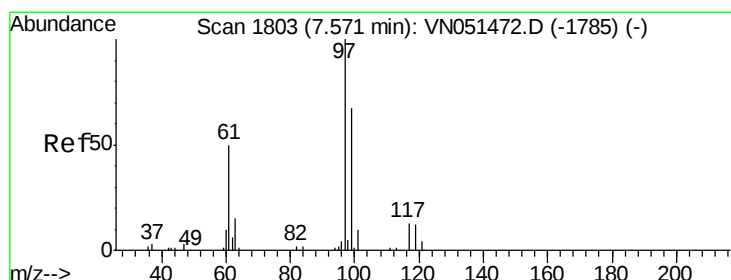
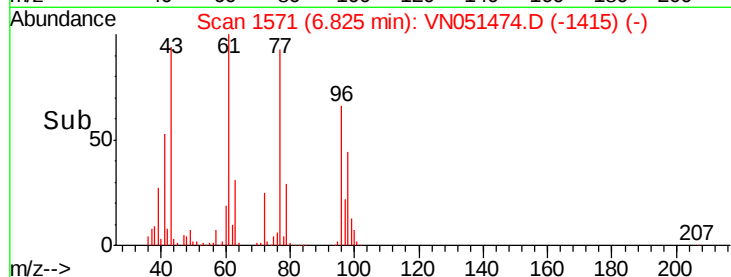
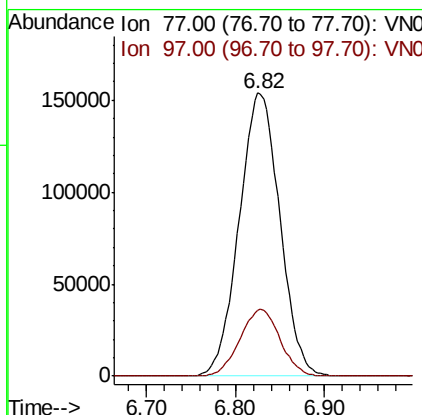
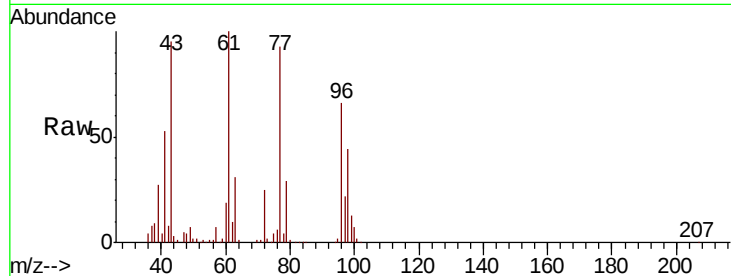




#31
 2,2-Dichloropropane
 Concen: 57.651 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

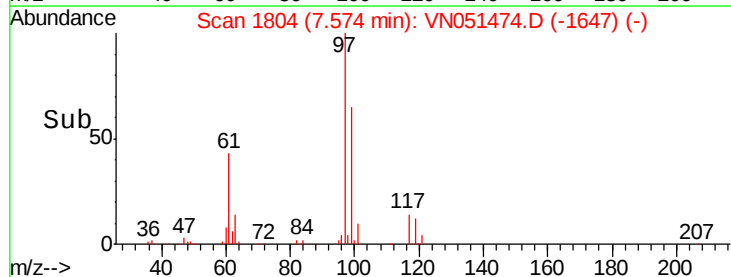
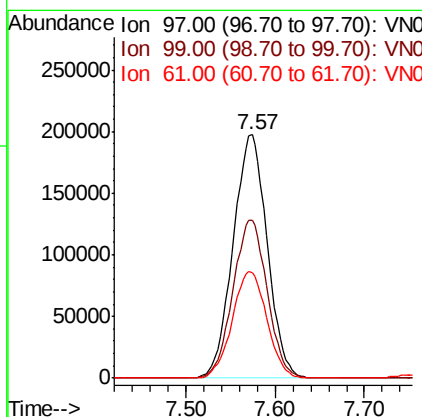
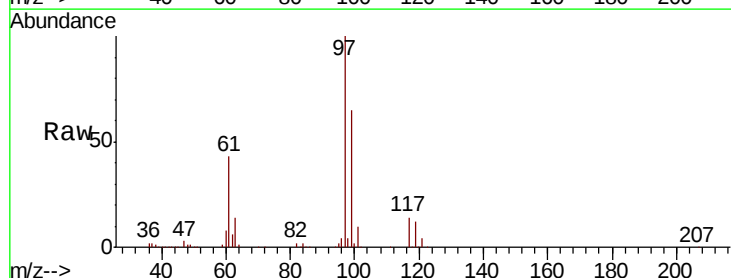
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

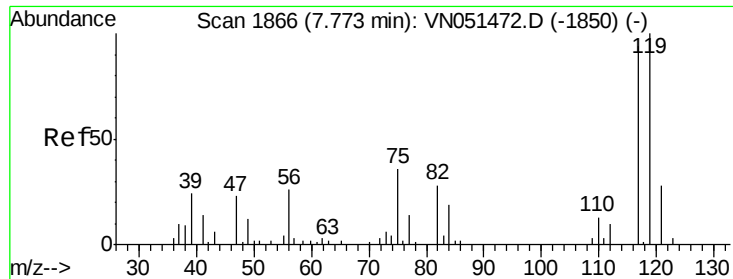
Tot Ion: 77 Resp: 488254
 Ion Ratio Lower Upper
 77 100
 97 23.3 12.0 18.0#



#32
 1,1,1-Trichloroethane
 Concen: 57.800 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 97 Resp: 523909
 Ion Ratio Lower Upper
 97 100
 99 65.2 51.6 77.4
 61 44.4 37.4 56.0

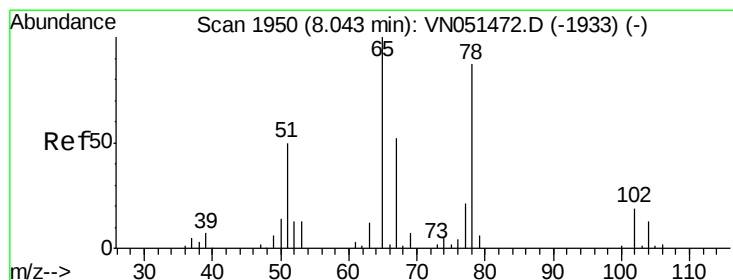
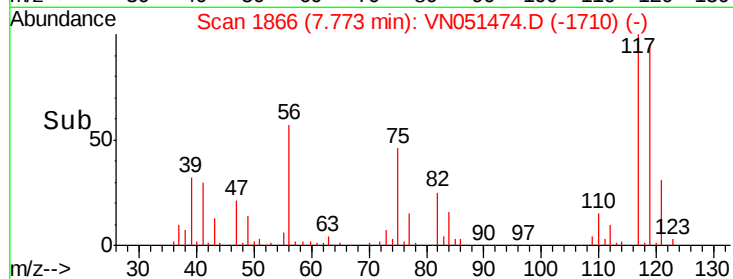
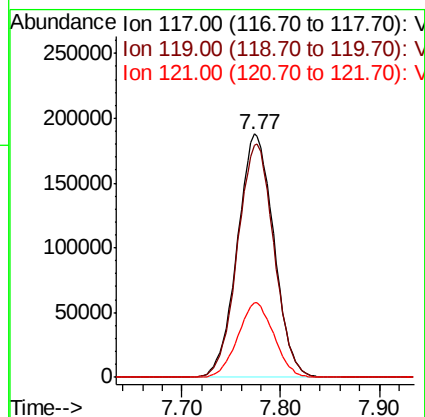
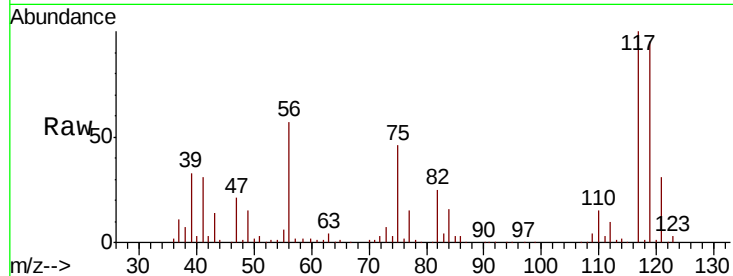




#33
Carbon Tetrachloride
Concen: 57.805 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

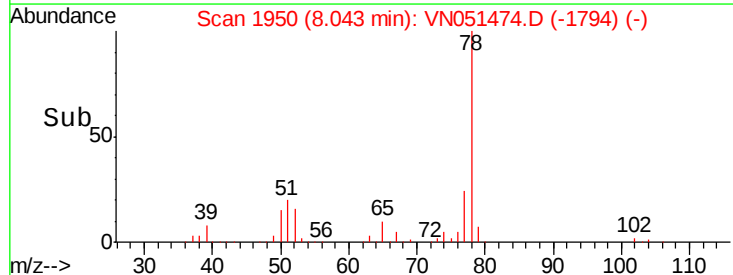
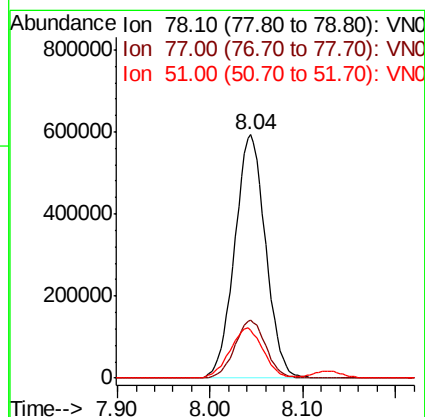
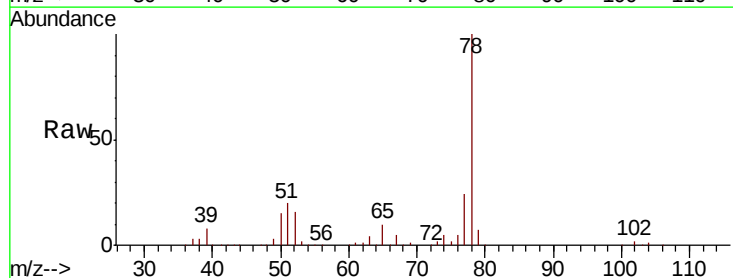
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

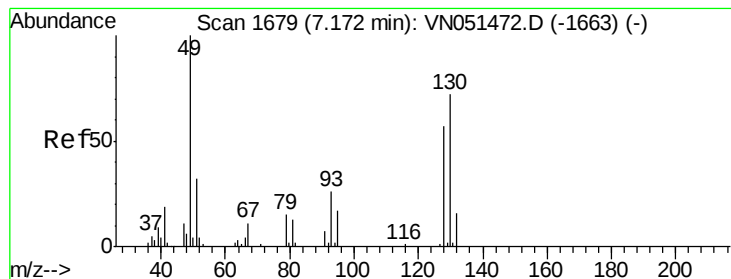
Tot Ion:117 Resp: 480763
Ion Ratio Lower Upper
117 100
119 95.2 85.1 127.7
121 30.8 24.2 36.2



#34
Benzene
Concen: 58.131 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 78 Resp: 1370295
Ion Ratio Lower Upper
78 100
77 23.7 18.8 28.2
51 19.8 46.2 69.4#





#35

Methacrylonitrile

Concen: 128.359 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.04 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 41 Resp: 379356

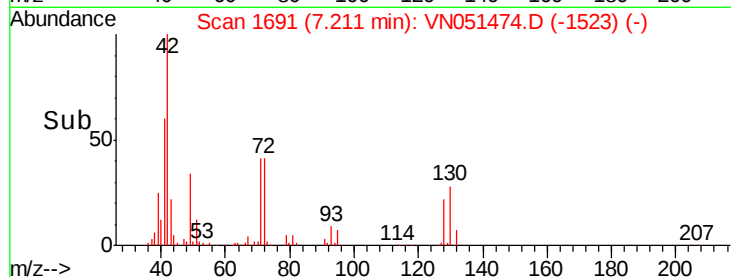
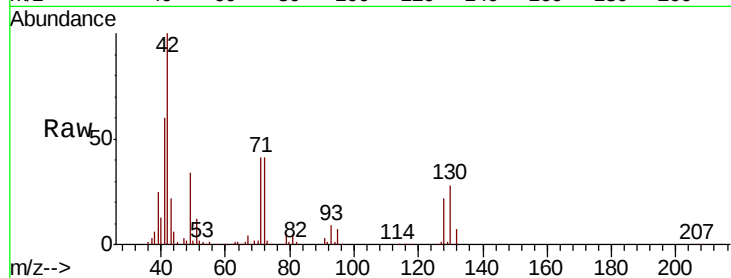
Ion Ratio Lower Upper

41 100

39 41.9 22.6 67.7

67 6.1 28.9 86.8#

52 2.9 11.3 33.9#

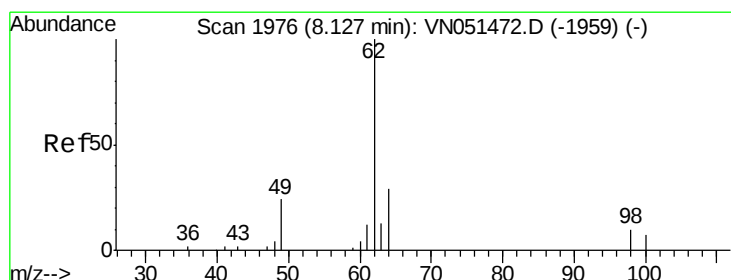
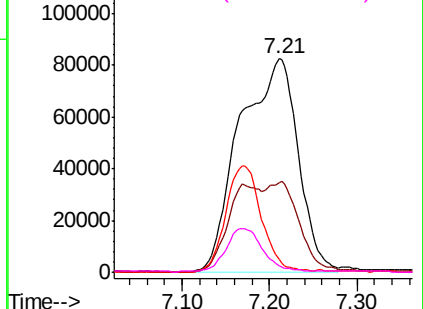


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#36

1,2-Dichloroethane

Concen: 57.630 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN051474.D

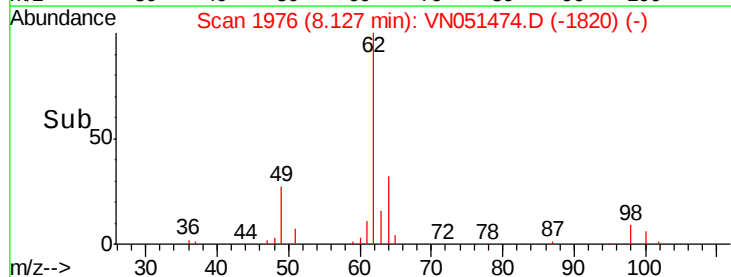
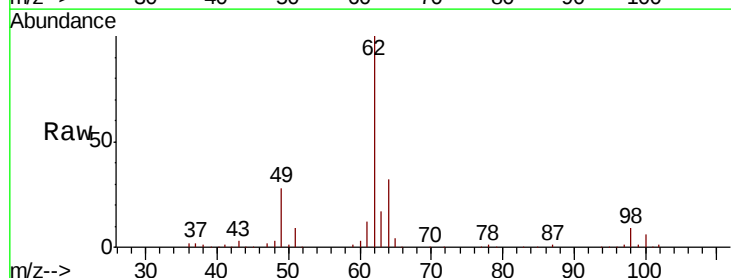
Acq: 25 Sep 2018 10:00

Tgt Ion: 62 Resp: 442341

Ion Ratio Lower Upper

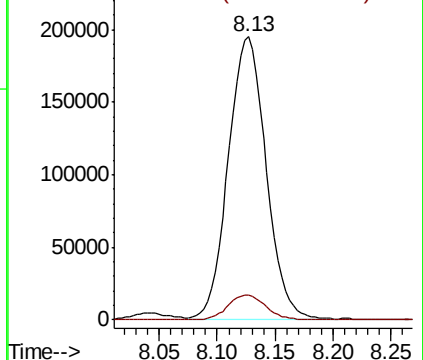
62 100

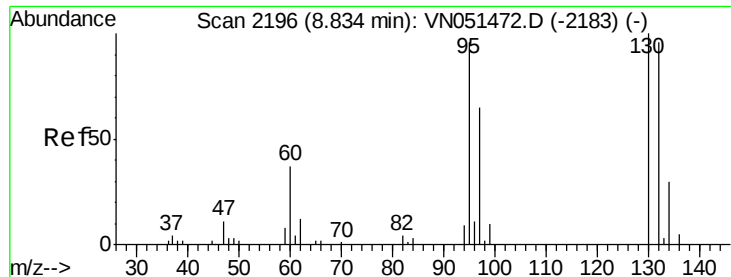
98 8.8 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

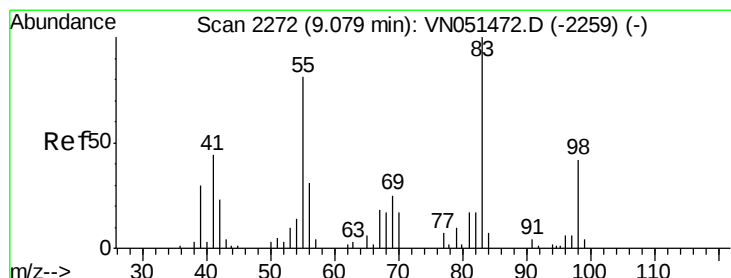
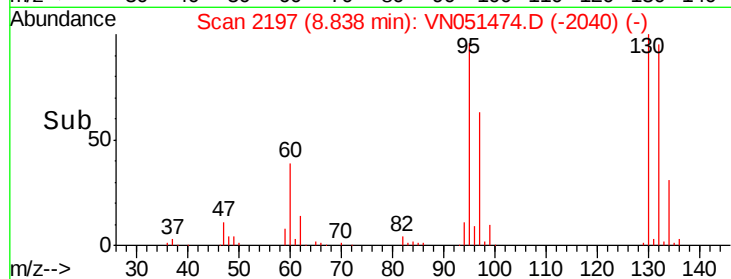
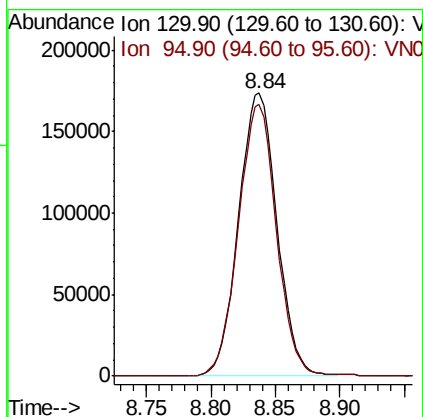
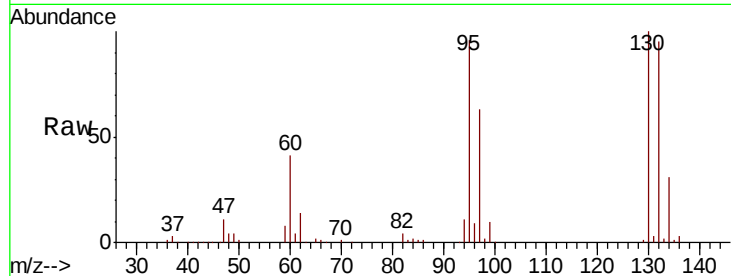




#37
 Trichloroethene
 Concen: 57.484 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

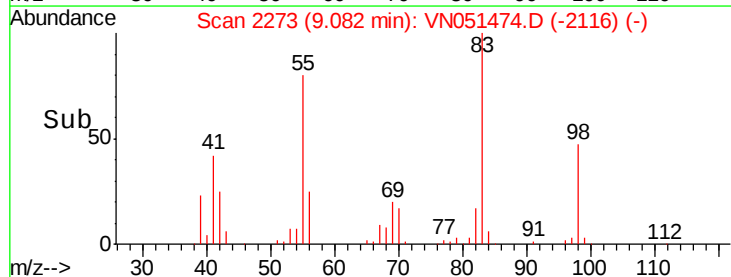
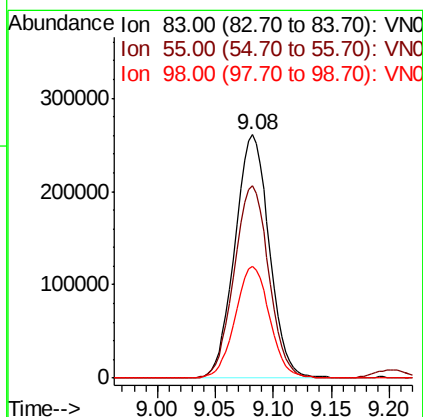
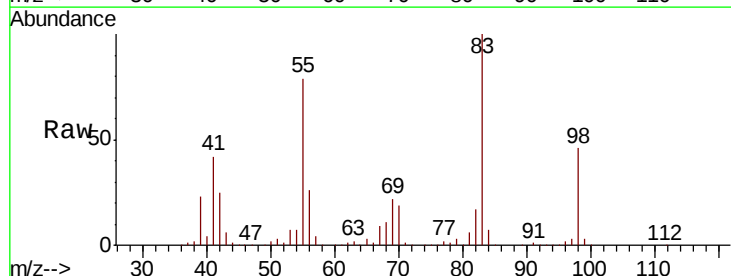
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

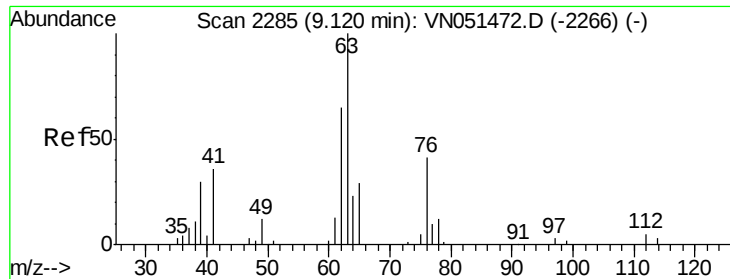
Tot Ion:130 Resp: 359145
 Ion Ratio Lower Upper
 130 100
 95 96.0 76.4 114.6



#38
 Methylcyclohexane
 Concen: 58.535 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 83 Resp: 538753
 Ion Ratio Lower Upper
 83 100
 55 79.6 43.0 129.2
 98 45.9 21.3 63.7

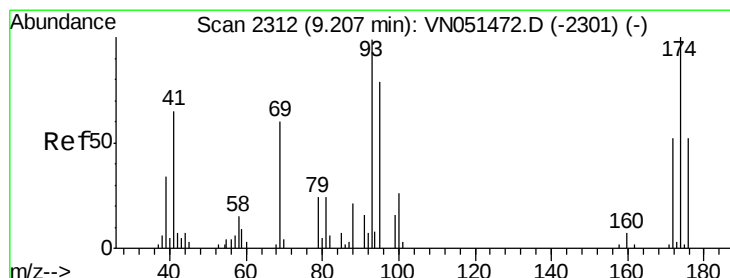
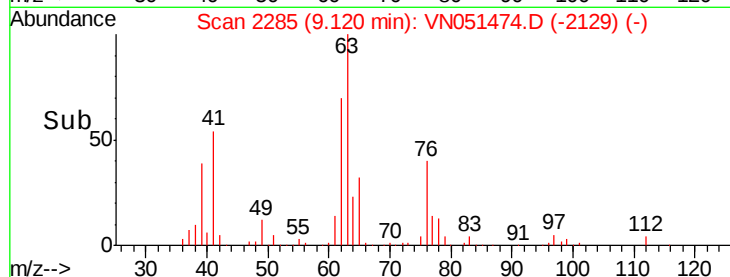
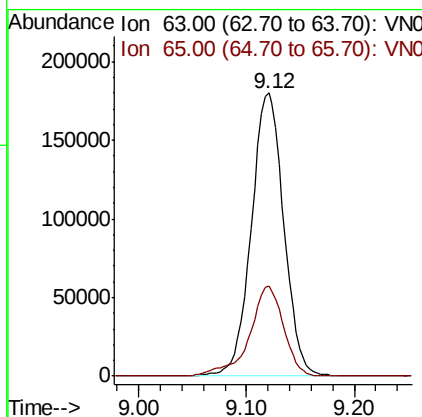
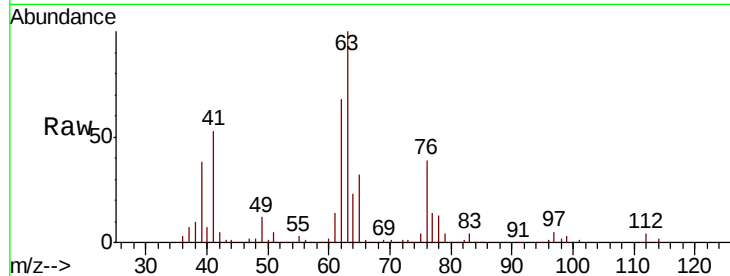




#39
 1,2-Dichloropropane
 Concen: 58.647 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

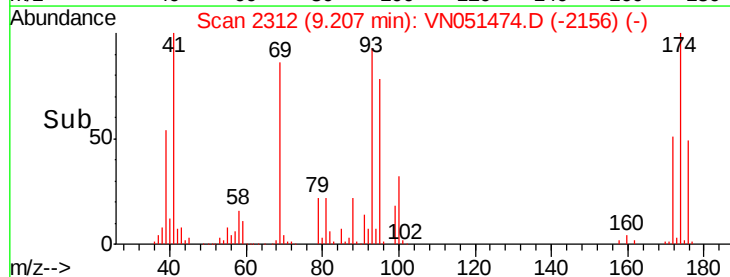
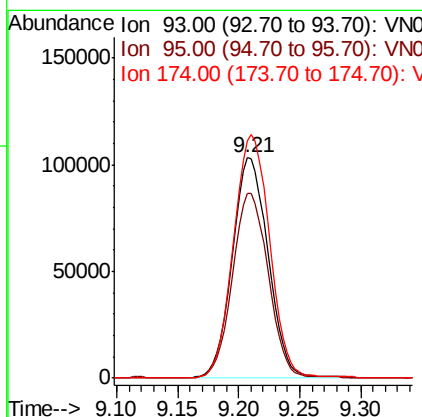
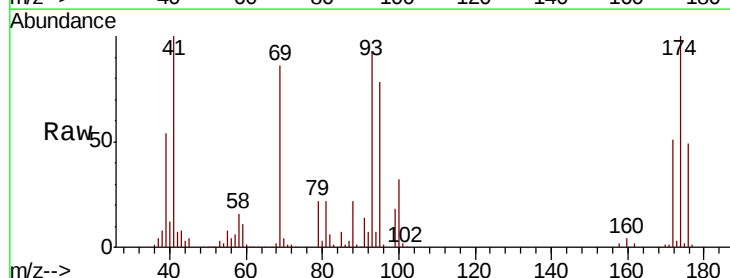
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

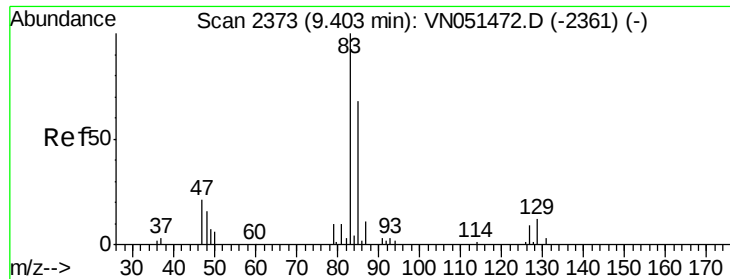
Tot Ion: 63 Resp: 376075
 Ion Ratio Lower Upper
 63 100
 65 31.7 23.2 34.8



#40
 Dibromomethane
 Concen: 57.989 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion: 93 Resp: 211646
 Ion Ratio Lower Upper
 93 100
 95 83.2 0.0 162.0
 174 111.0 0.0 214.0

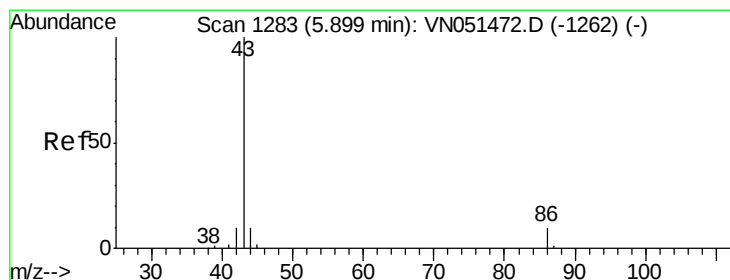
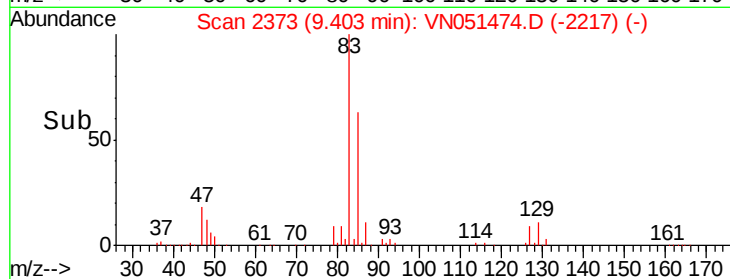
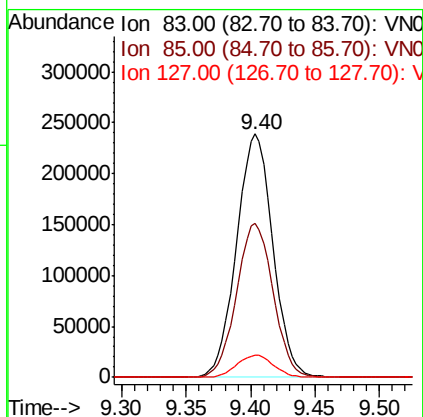
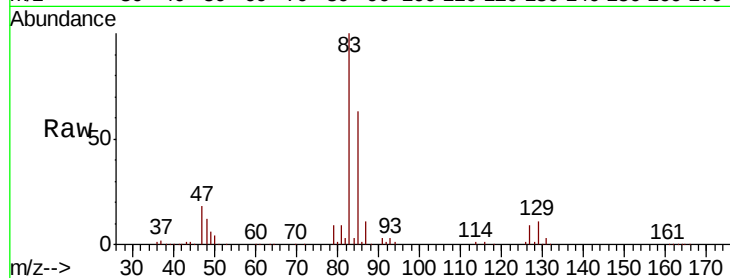




#41
Bromodichloromethane
Concen: 58.404 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

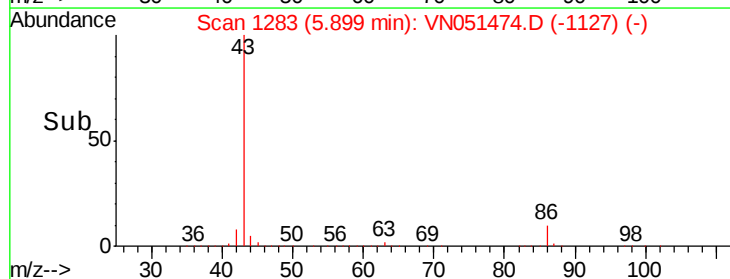
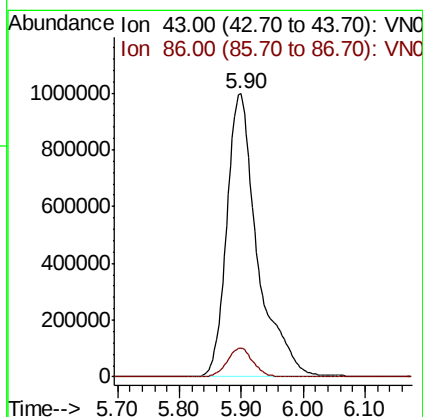
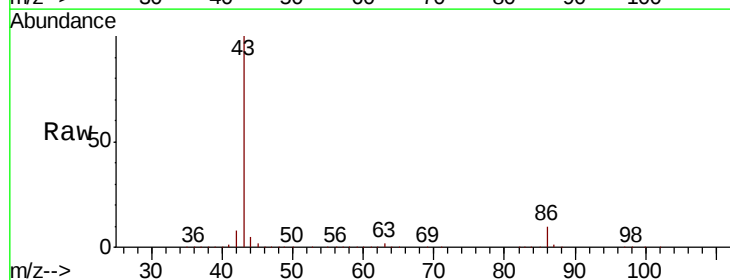
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

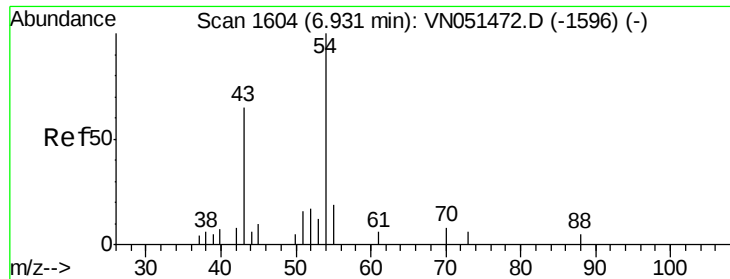
Tot Ion: 83 Resp: 468652
Ion Ratio Lower Upper
83 100
85 63.3 55.7 83.5
127 9.1 8.2 12.4



#42
Vinyl Acetate
Concen: 301.744 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 43 Resp: 3441137
Ion Ratio Lower Upper
43 100
86 8.6 6.5 9.7

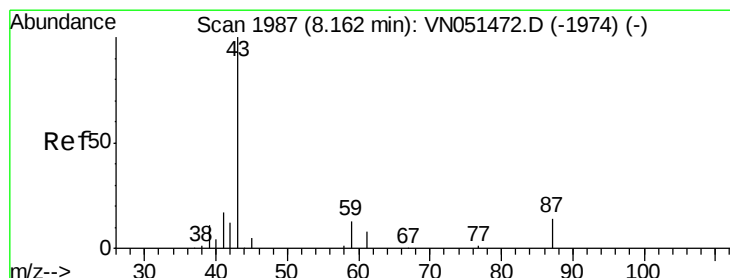
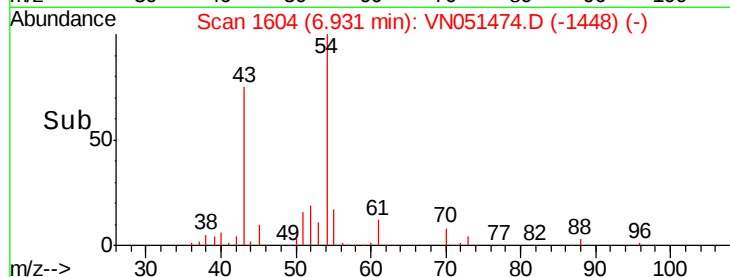
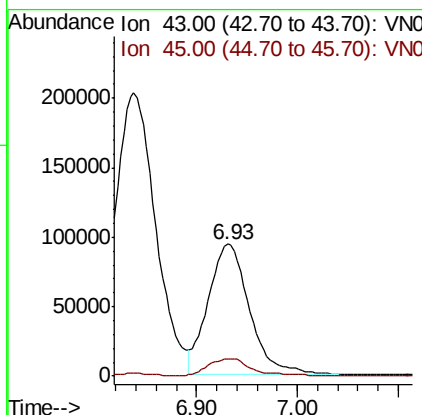
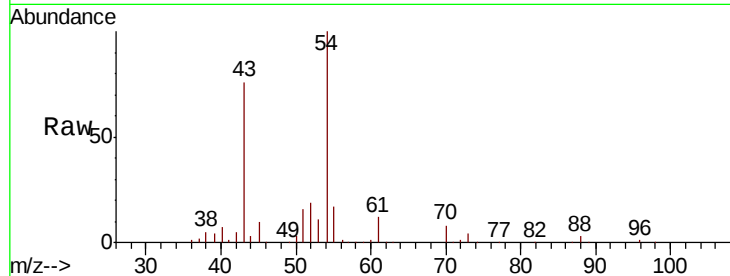




#43
Ethyl Acetate
Concen: 62.527 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

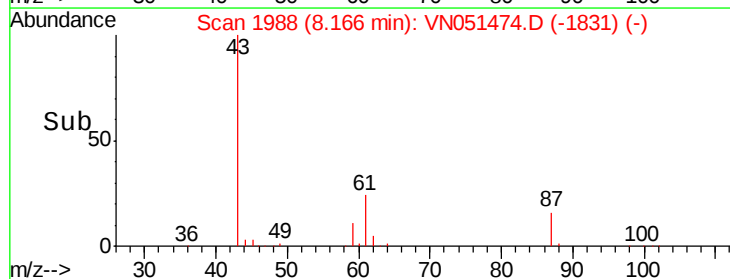
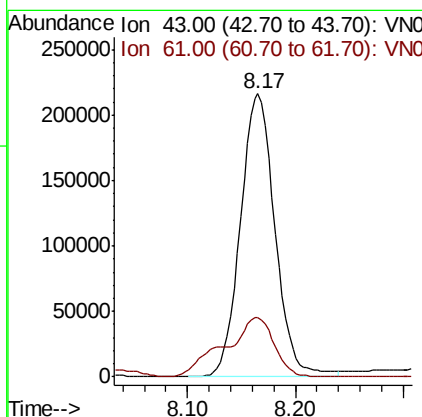
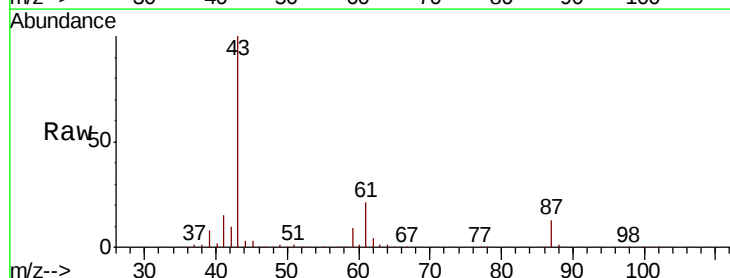
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

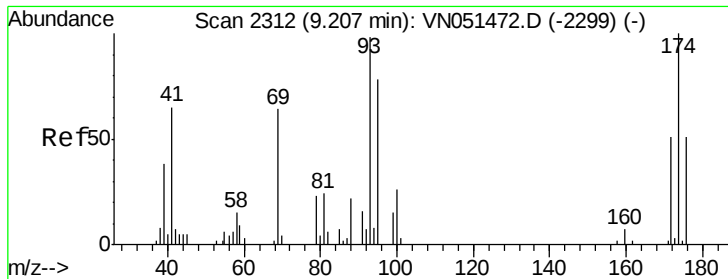
Tot Ion: 43 Resp: 266817
Ion Ratio Lower Upper
43 100
45 12.4 11.0 16.6



#44
Isopropyl Acetate
Concen: 58.498 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 43 Resp: 480104
Ion Ratio Lower Upper
43 100
61 19.7 15.9 23.9





#45

1,4-Dioxane

Concen: 1201.254 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.01 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

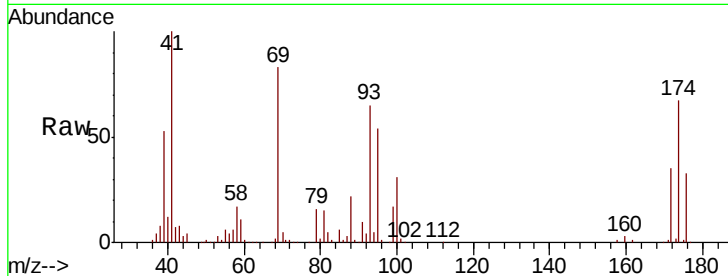
Tot Ion: 88 Resp: 59979

Ion Ratio Lower Upper

88 100

43 33.0 26.2 39.2

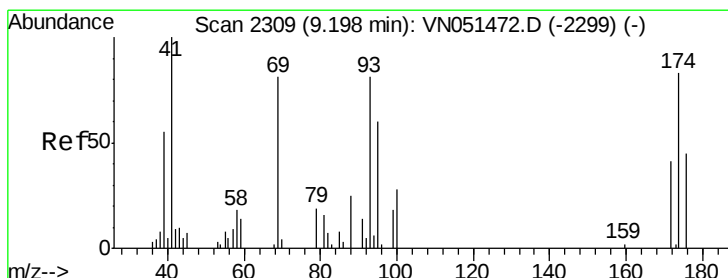
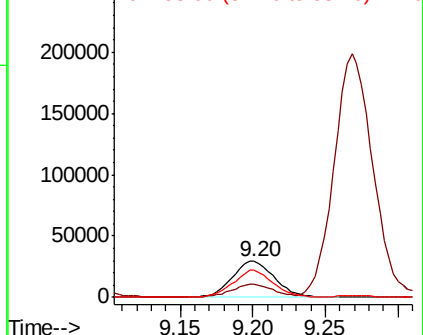
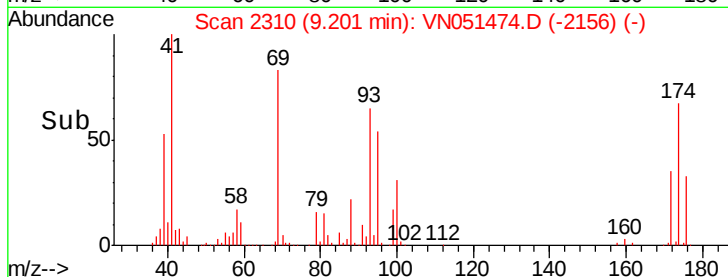
58 70.0 65.6 98.4



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 59.833 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

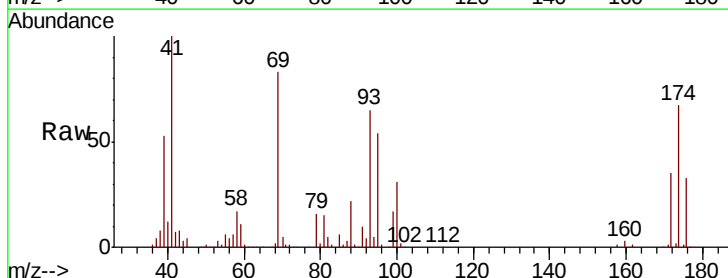
Tgt Ion: 41 Resp: 243178

Ion Ratio Lower Upper

41 100

69 84.4 40.7 122.1

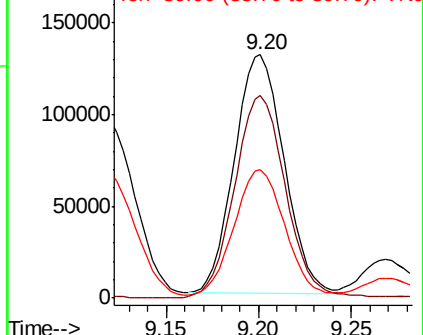
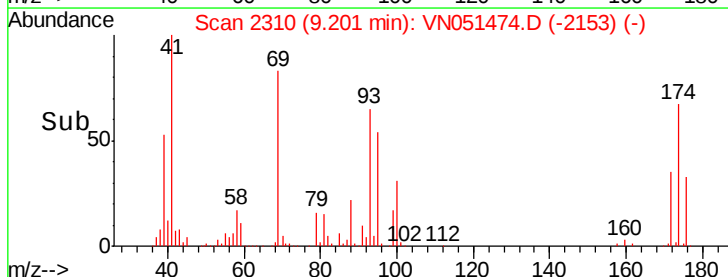
39 52.7 27.3 81.9

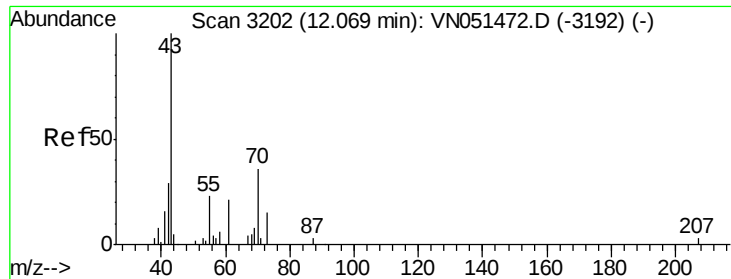


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

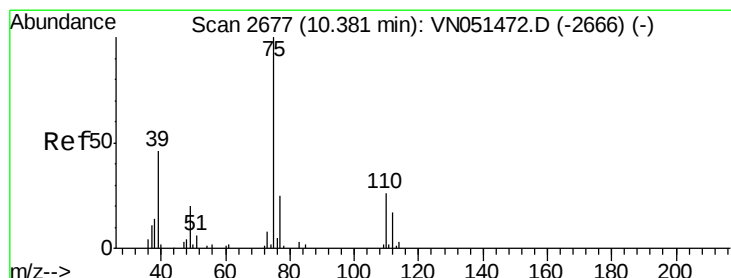
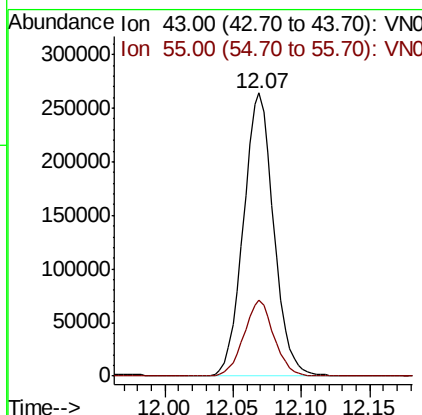
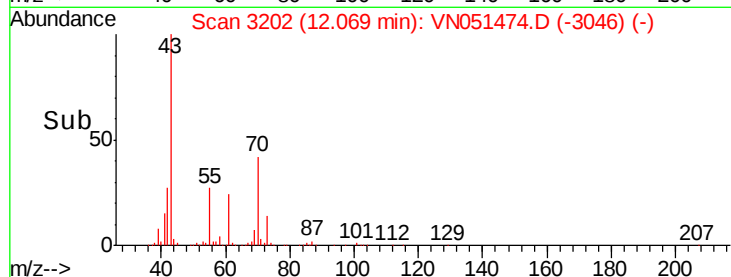
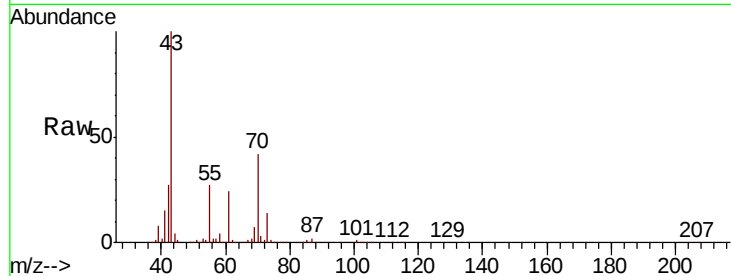




#47
n-amvl Acetate
Concen: 61.918 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

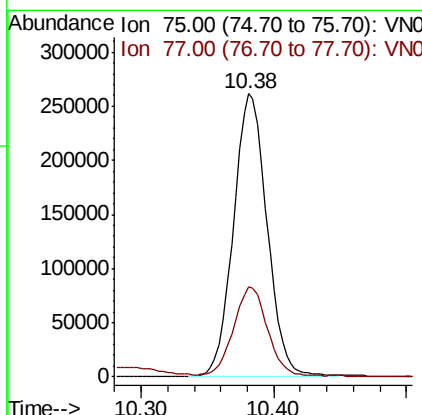
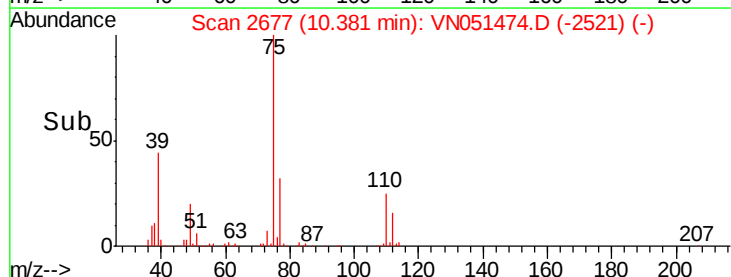
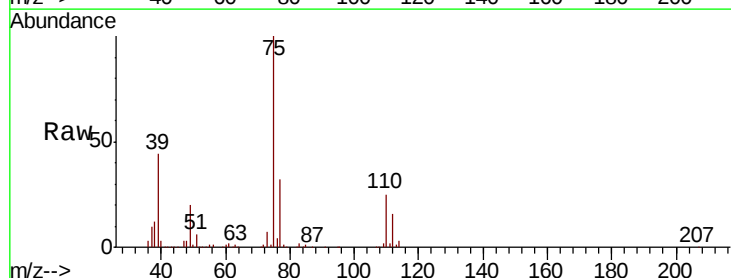
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

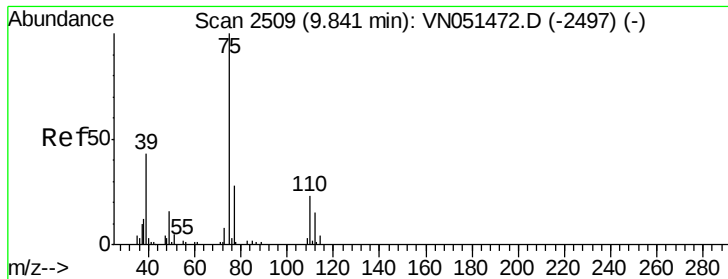
Tot Ion: 43 Resp: 406074
Ion Ratio Lower Upper
43 100
55 26.8 12.2 18.4#



#48
t-1,3-Dichloropropene
Concen: 57.911 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 75 Resp: 461448
Ion Ratio Lower Upper
75 100
77 31.1 24.6 37.0



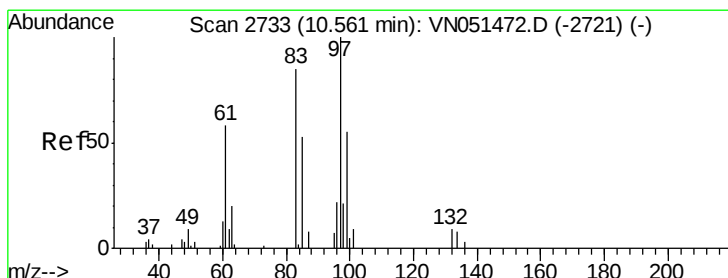
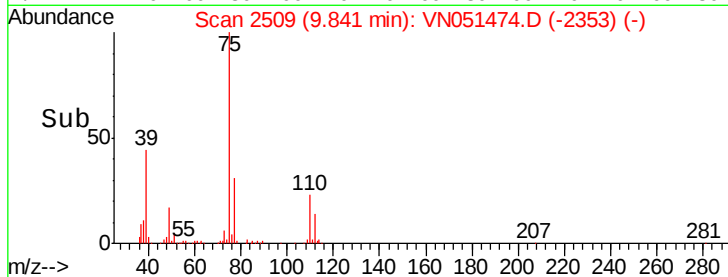
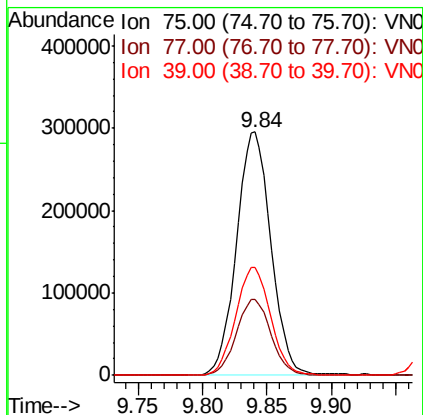
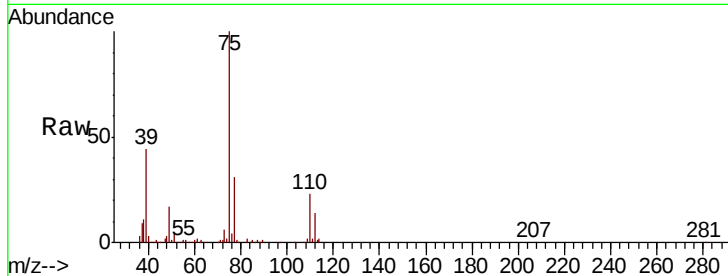


#49

cis-1,3-Dichloropropene
Concen: 59.465 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

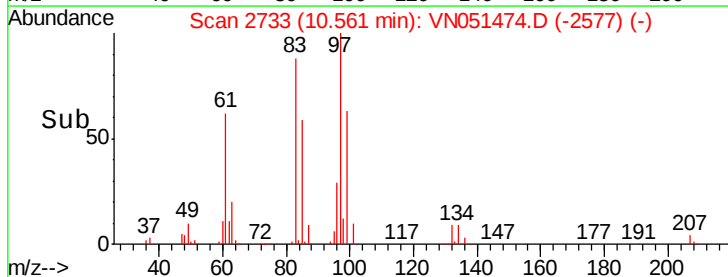
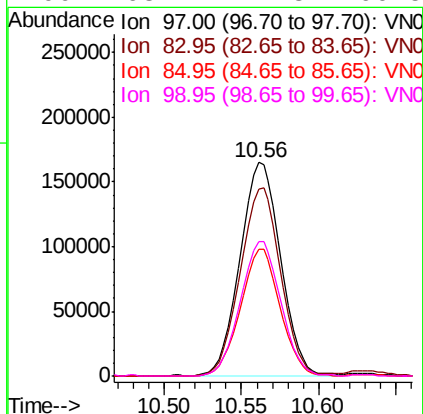
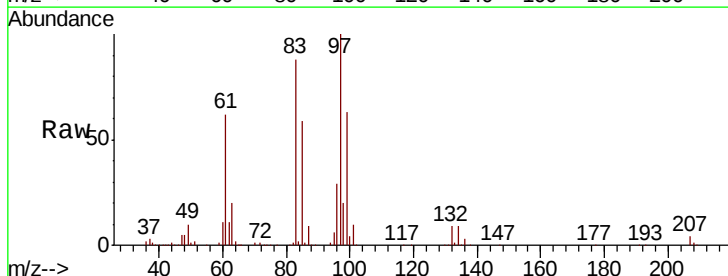
Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	23.2	34.8
39	44.1	34.6	52.0

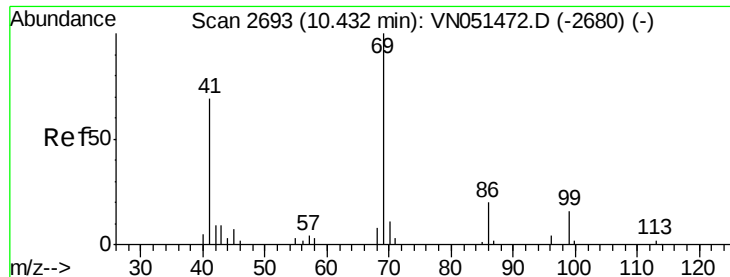


#50

1,1,2-Trichloroethane
Concen: 57.878 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.6	68.2	102.4
85	59.3	42.5	63.7
99	63.2	44.3	66.5





#51

Ethyl methacrylate

Concen: 60.844 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

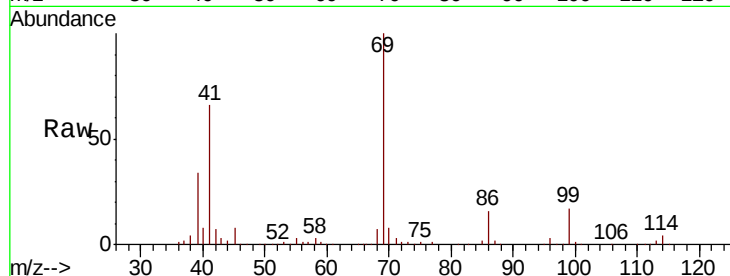
Tot Ion: 69 Resp: 375780

Ion Ratio Lower Upper

69 100

41 66.1 34.4 103.1

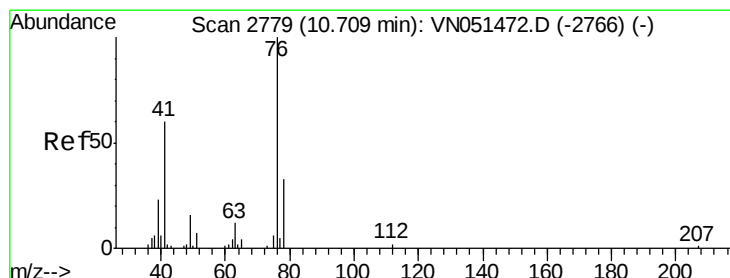
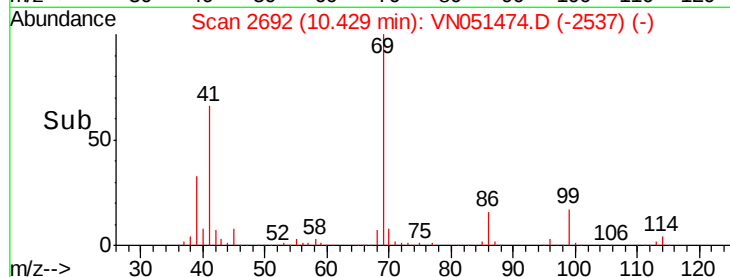
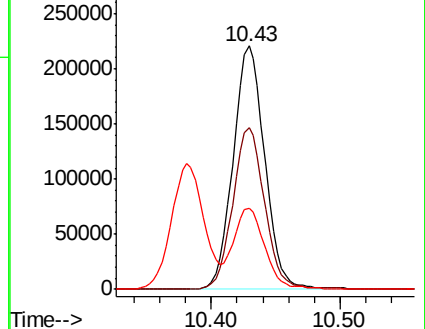
39 33.2 16.3 48.8



Abundance Ion 69.00 (68.70 to 69.70): VN051474.D (-2680) (-)

Ion 41.00 (40.70 to 41.70): VN051474.D (-2680) (-)

Ion 39.00 (38.70 to 39.70): VN051474.D (-2680) (-)



#52

1,3-Dichloropropane

Concen: 58.917 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051474.D

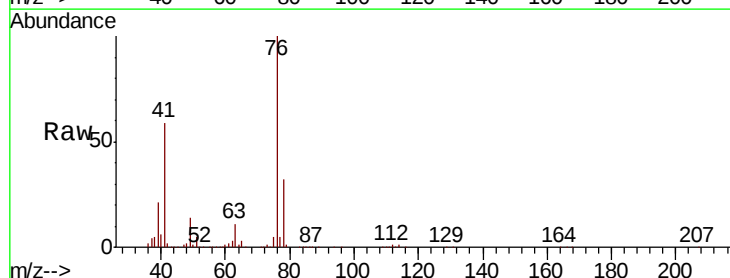
Acq: 25 Sep 2018 10:00

Tgt Ion: 76 Resp: 518693

Ion Ratio Lower Upper

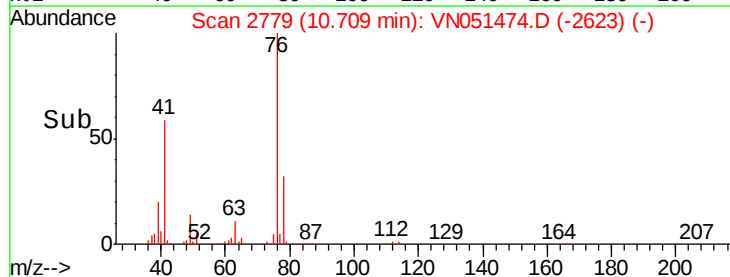
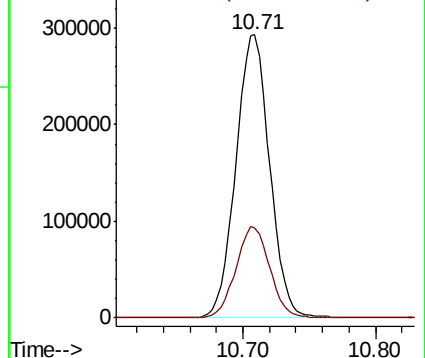
76 100

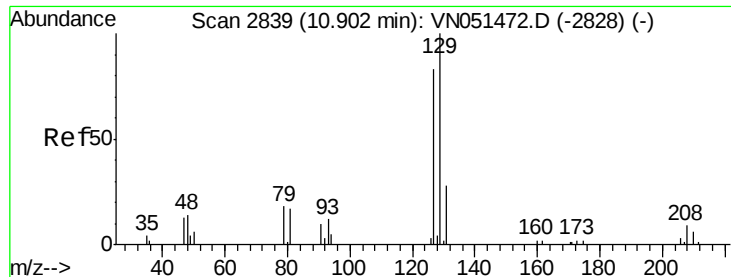
78 32.4 0.0 67.6



Abundance Ion 76.00 (75.70 to 76.70): VN051474.D (-2623) (-)

Ion 78.00 (77.70 to 78.70): VN051474.D (-2623) (-)

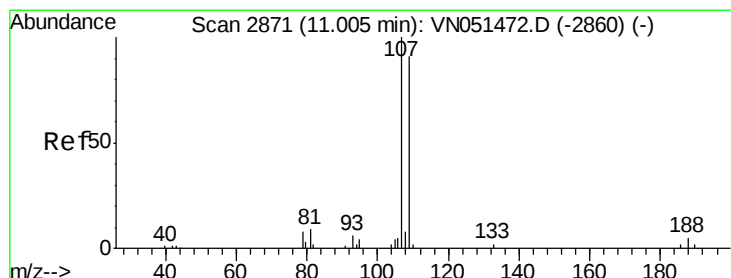
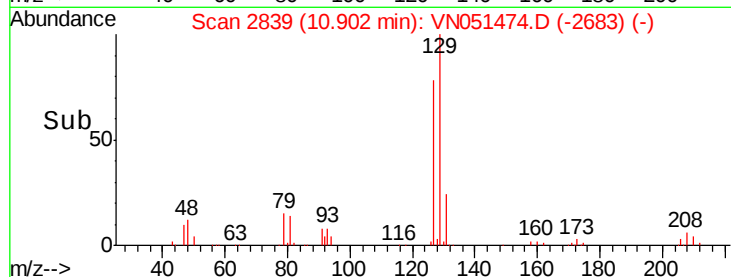
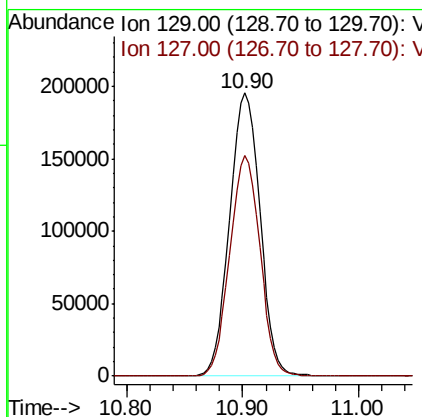
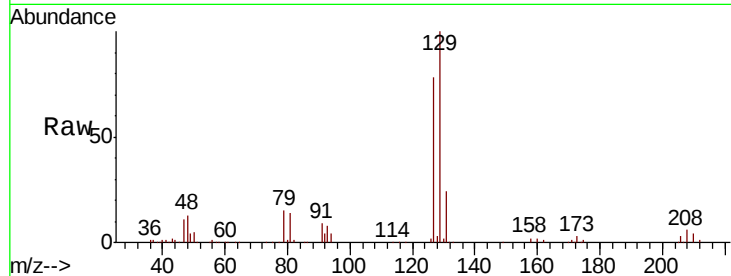




#53
Dibromochloromethane
Concen: 59.191 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

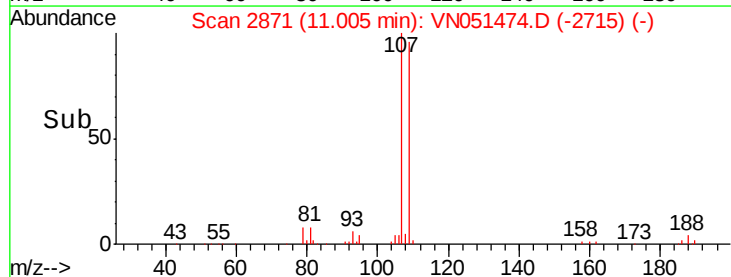
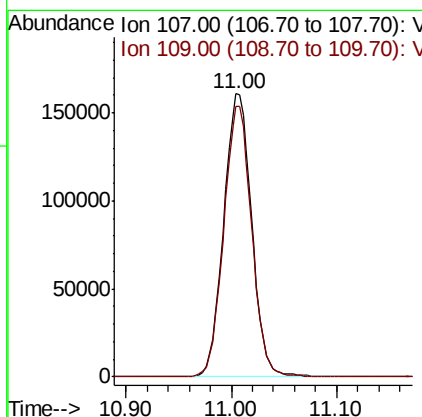
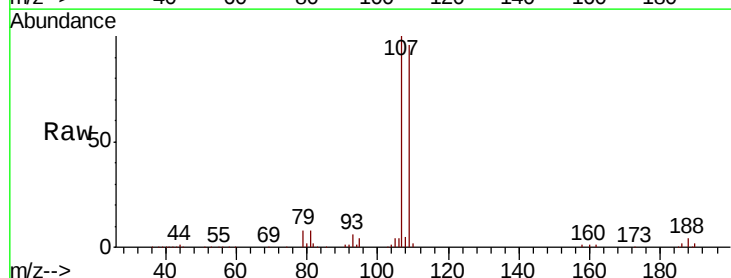
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

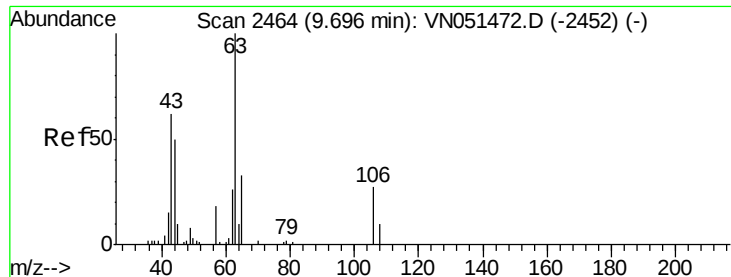
Tot Ion:129 Resp: 355307
Ion Ratio Lower Upper
129 100
127 77.1 40.2 120.5



#54
1,2-Dibromoethane
Concen: 58.503 ug/l
RT: 11.00 min Scan# 2871
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion:107 Resp: 294574
Ion Ratio Lower Upper
107 100
109 95.3 77.4 116.0





#55

2-Chloroethyl vinyl ether

Concen: 308.019 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

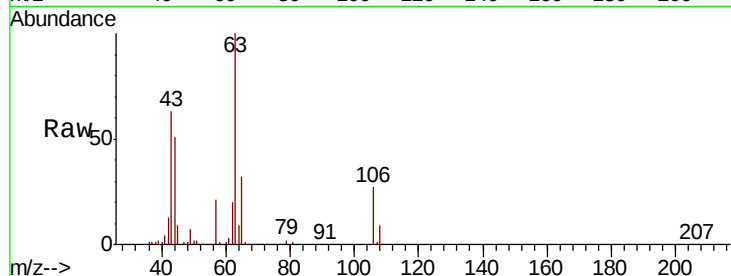
Tot Ion: 63 Resp: 939371

Ion Ratio Lower Upper

63 100

65 32.3 25.4 38.0

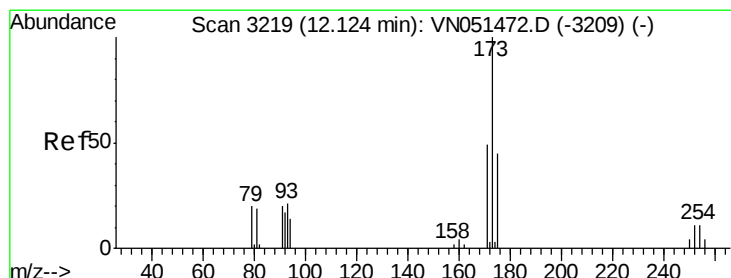
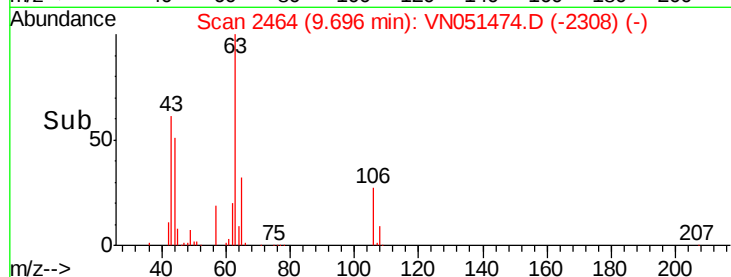
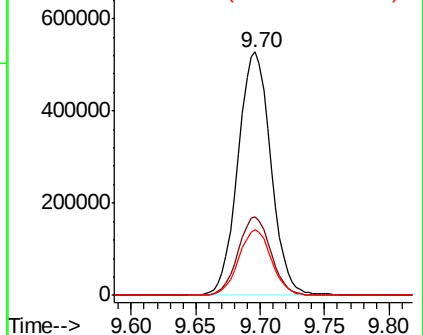
106 26.8 21.2 31.8



Abundance Ion 63.00 (62.70 to 63.70): VN051474.D (-2452) (-)

Ion 65.00 (64.70 to 65.70): VN051474.D (-2452) (-)

Ion 106.00 (105.70 to 106.70): VN051474.D (-2452) (-)



#56

Bromoform

Concen: 59.375 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

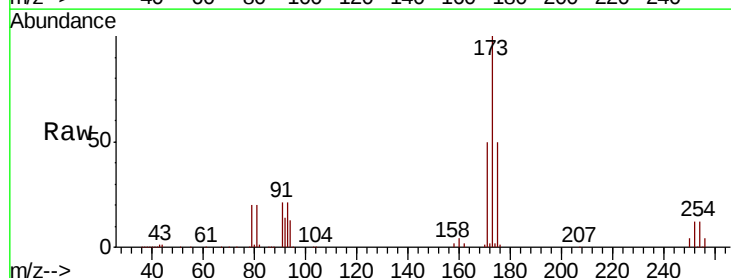
Tgt Ion: 173 Resp: 240283

Ion Ratio Lower Upper

173 100

175 48.7 35.8 53.8

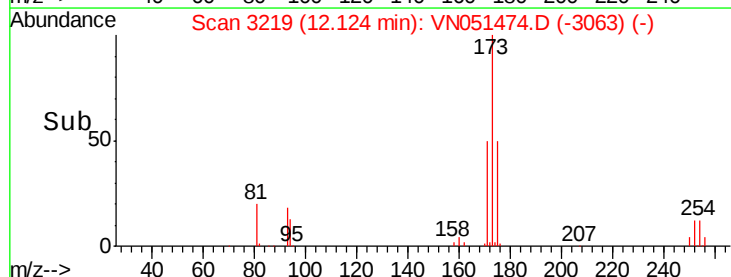
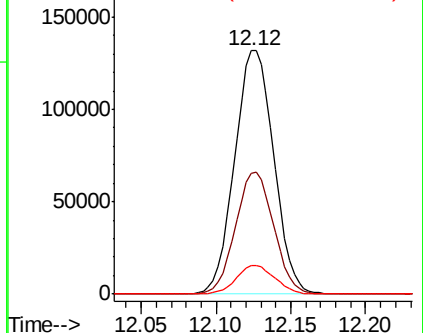
254 11.6 8.6 13.0

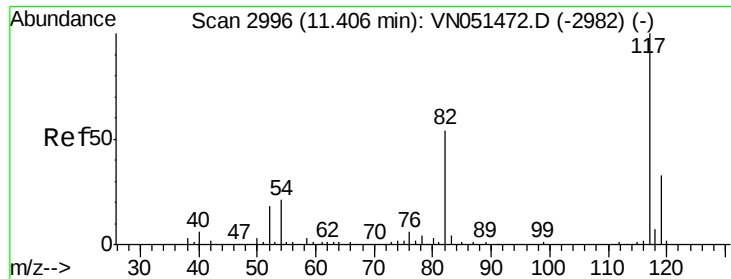


Abundance Ion 173.00 (172.70 to 173.70): VN051474.D (-3209) (-)

Ion 175.00 (174.70 to 175.70): VN051474.D (-3209) (-)

Ion 254.00 (253.70 to 254.70): VN051474.D (-3209) (-)

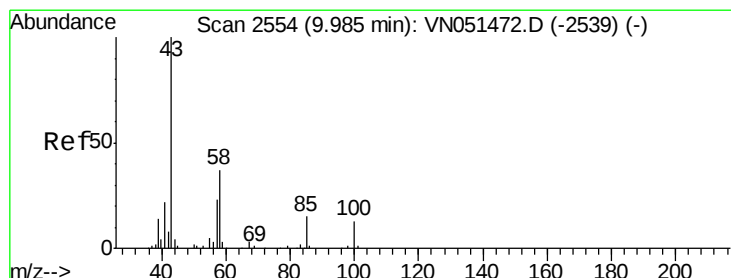
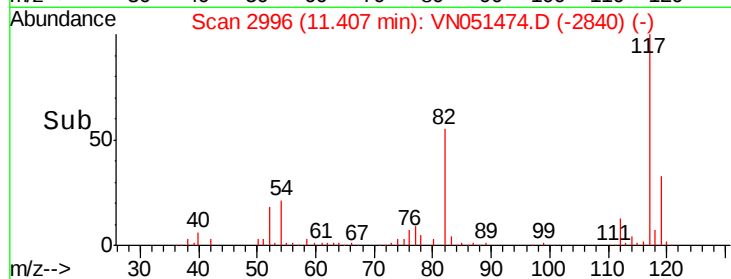
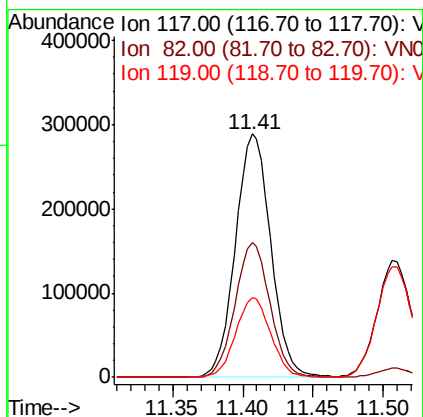
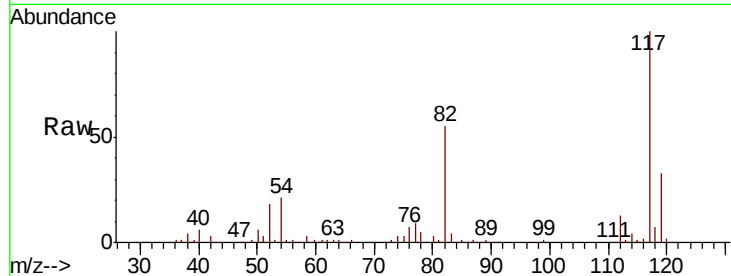




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

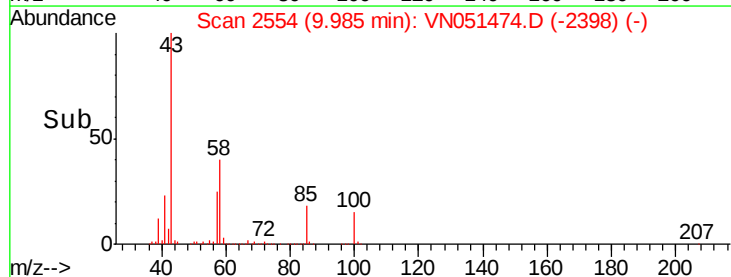
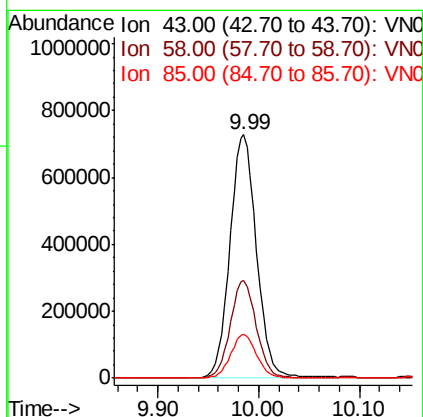
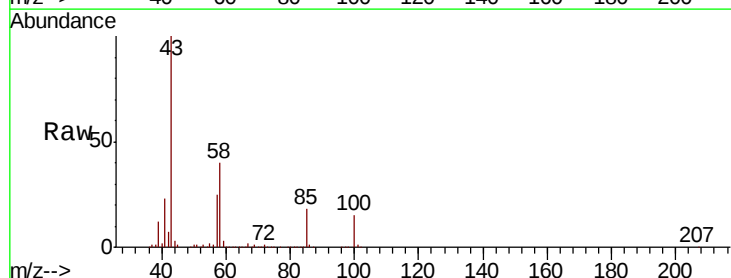
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

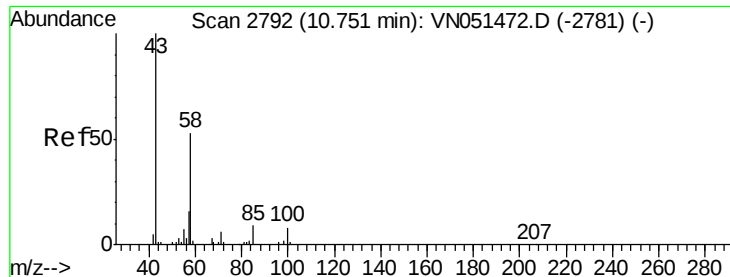
Tot Ion:117 Resp: 509359
Ion Ratio Lower Upper
117 100
82 54.7 44.1 66.1
119 32.3 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 298.621 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 43 Resp: 1336746
Ion Ratio Lower Upper
43 100
58 39.4 29.3 43.9
85 17.6 12.6 18.8

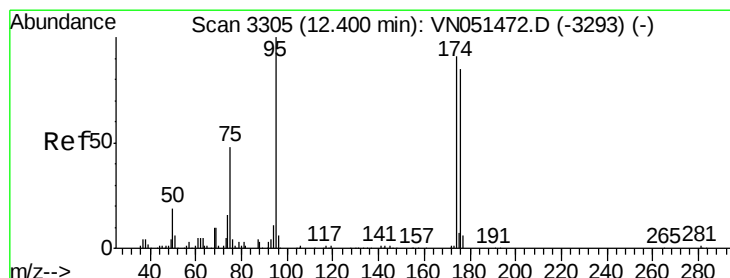
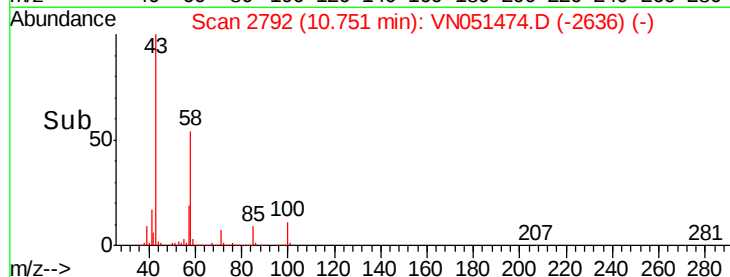
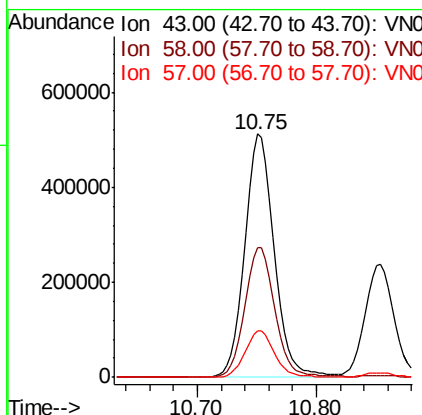
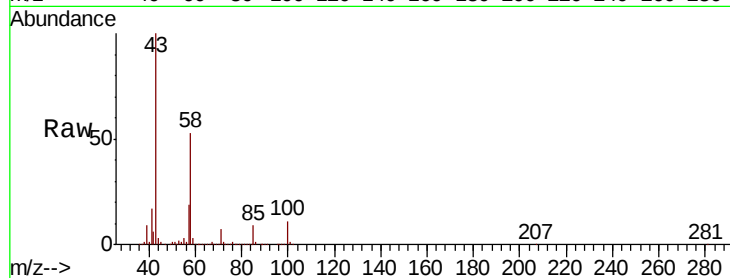




#59
2-Hexanone
Concen: 297.527 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

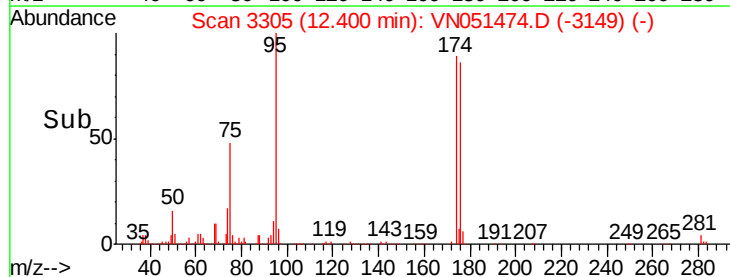
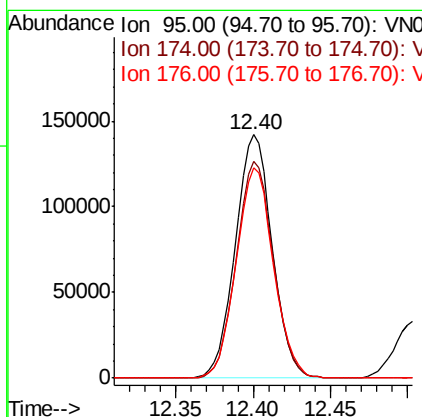
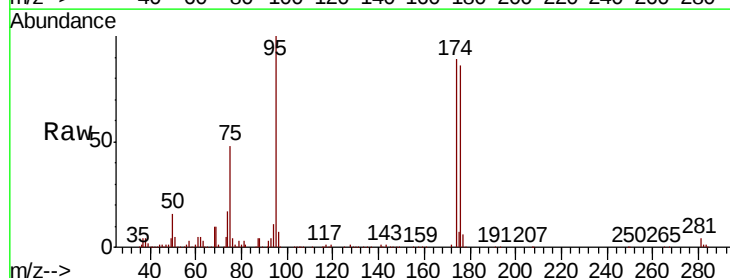
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

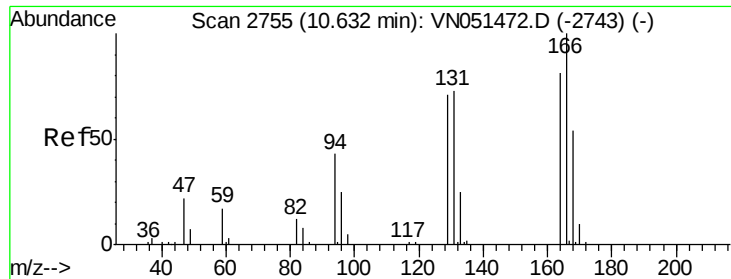
Tot Ion: 43 Resp: 876567
Ion Ratio Lower Upper
43 100
58 54.7 41.3 61.9
57 19.2 13.4 20.0



#60
4-Bromofluorobenzene
Concen: 31.474 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 95 Resp: 235362
Ion Ratio Lower Upper
95 100
174 89.5 73.5 110.3
176 87.6 70.2 105.2





#61

Tetrachloroethene

Concen: 58.334 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:164 Resp: 345683

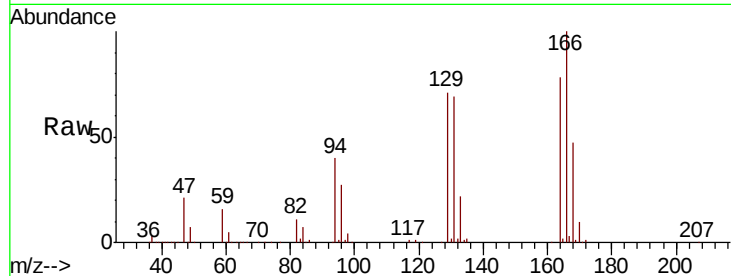
Ion Ratio Lower Upper

164 100

166 128.9 98.7 148.1

129 91.7 69.6 104.4

131 88.3 72.4 108.6

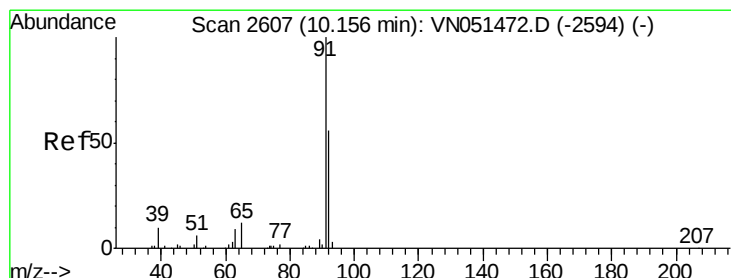
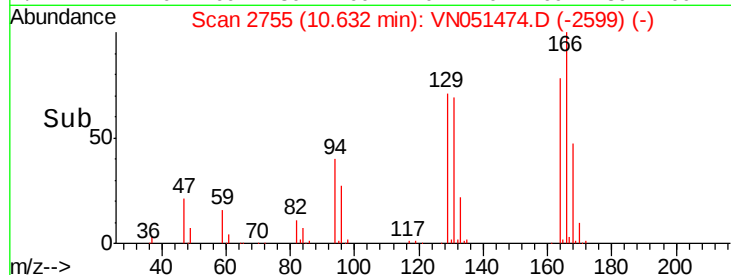
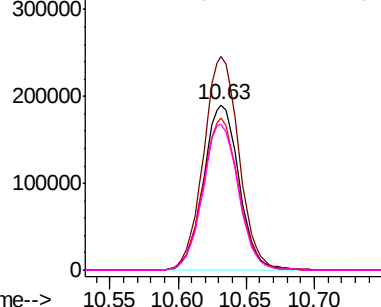


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 58.211 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051474.D

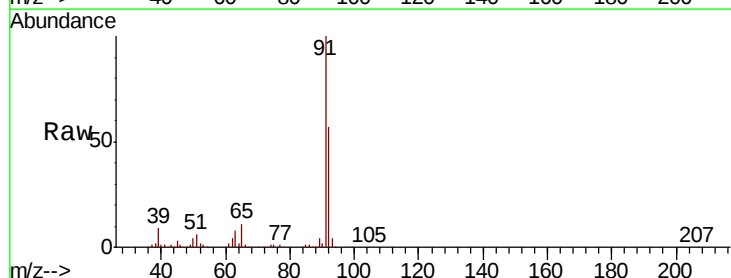
Acq: 25 Sep 2018 10:00

Tgt Ion: 91 Resp: 1517900

Ion Ratio Lower Upper

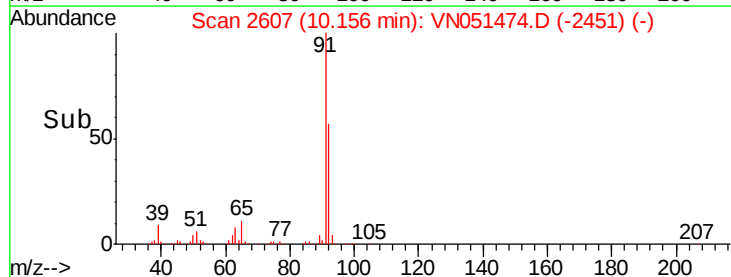
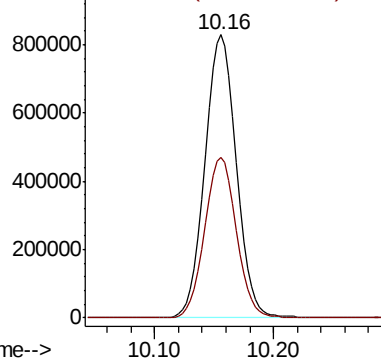
91 100

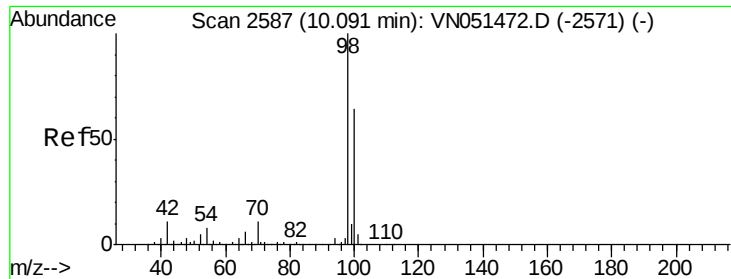
92 57.3 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 29.843 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

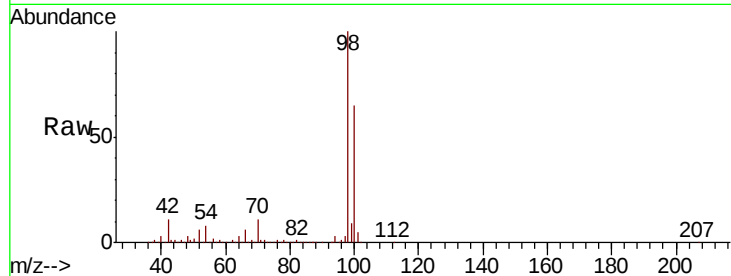
VSTDIC050

Tot Ion: 98 Resp: 728819

Ion Ratio Lower Upper

98 100

100 64.1 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051472.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051472.D (-2571) (-)

10.09

400000

300000

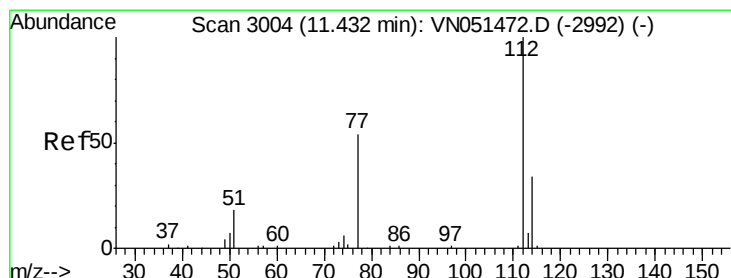
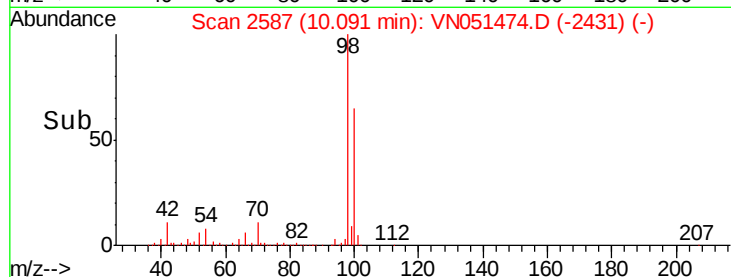
200000

100000

0

10.00 10.10 10.20

Time-->



#64

Chlorobenzene

Concen: 58.027 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051474.D

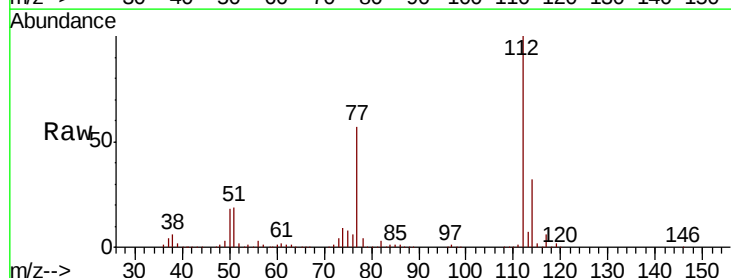
Acq: 25 Sep 2018 10:00

Tgt Ion: 112 Resp: 927678

Ion Ratio Lower Upper

112 100

114 31.7 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): VN051472.D (-2992) (-)

Ion 114.00 (113.70 to 114.70): VN051472.D (-2992) (-)

11.43

600000

500000

400000

300000

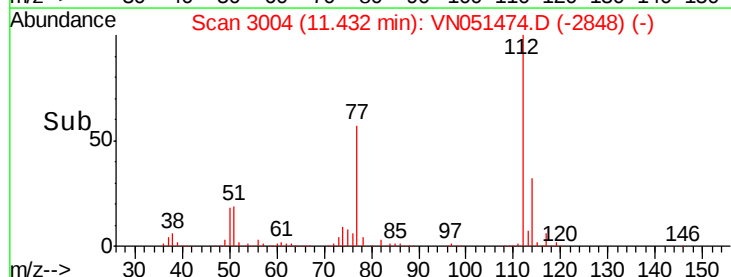
200000

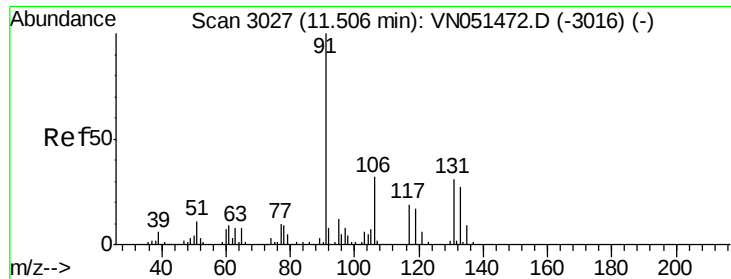
100000

0

11.40 11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 57.746 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

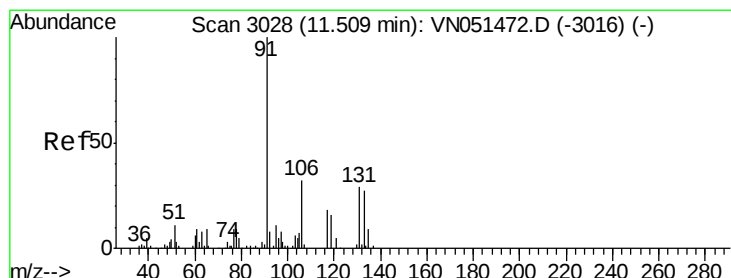
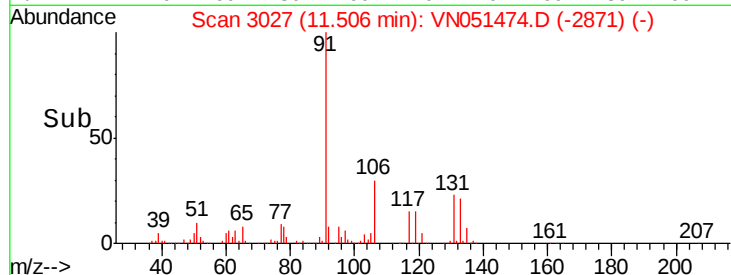
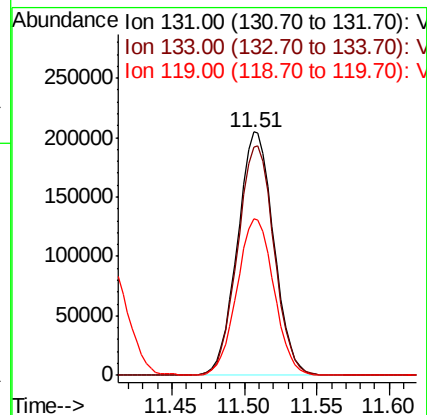
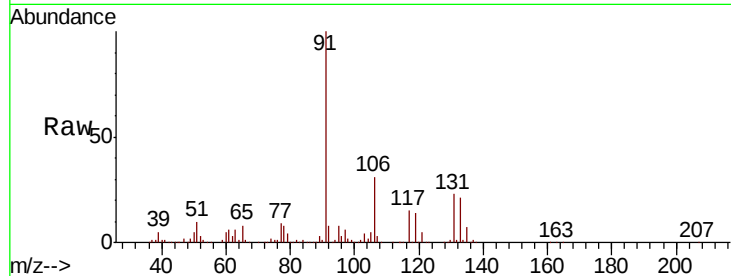
Tot Ion:131 Resp: 356933

Ion Ratio Lower Upper

131 100

133 94.9 0.0 190.4

119 65.5 0.0 128.0



#66

Ethyl Benzene

Concen: 59.810 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051474.D

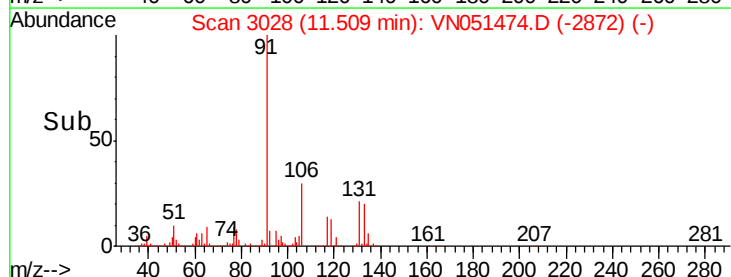
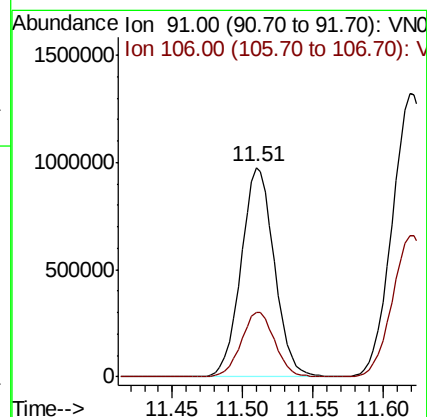
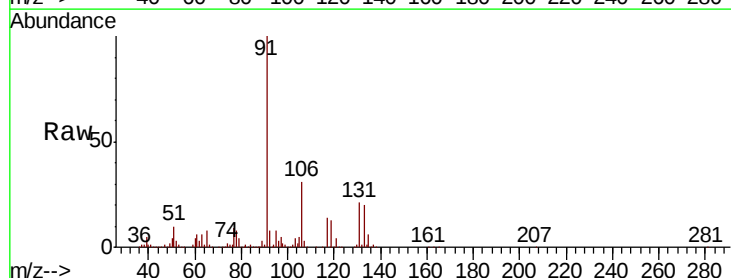
Acq: 25 Sep 2018 10:00

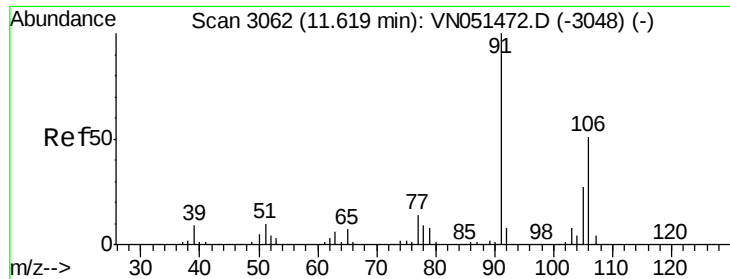
Tgt Ion: 91 Resp: 1608929

Ion Ratio Lower Upper

91 100

106 31.0 25.9 38.9

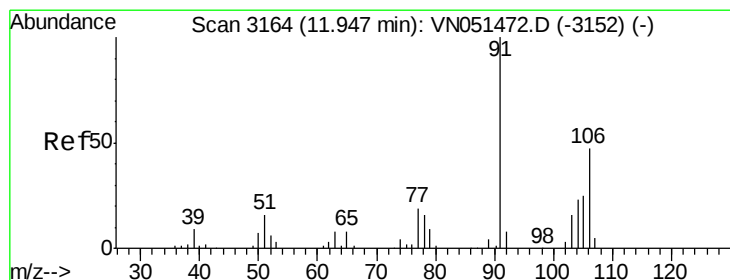
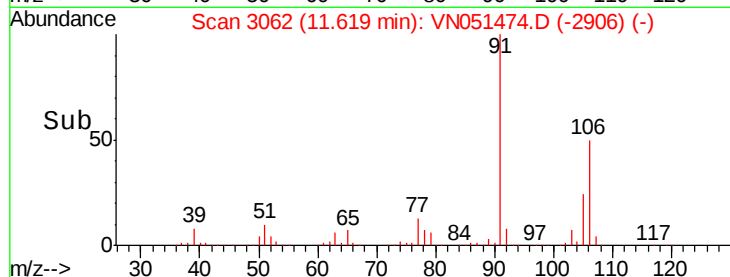
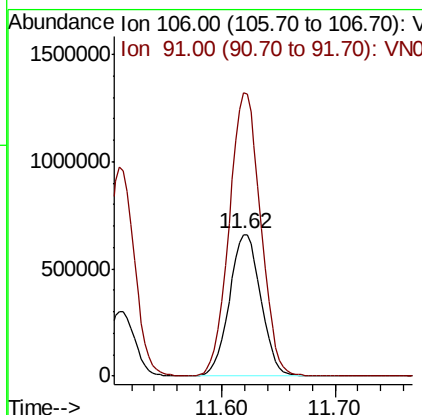
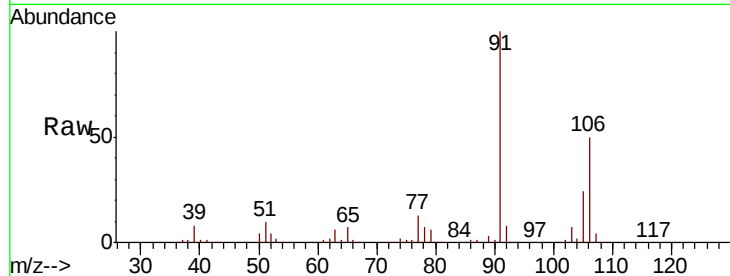




#67
m/p-Xylenes
Concen: 122.934 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

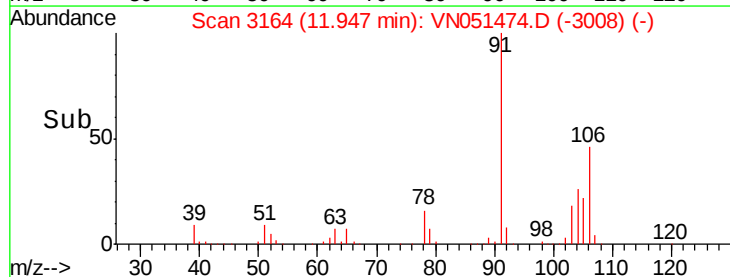
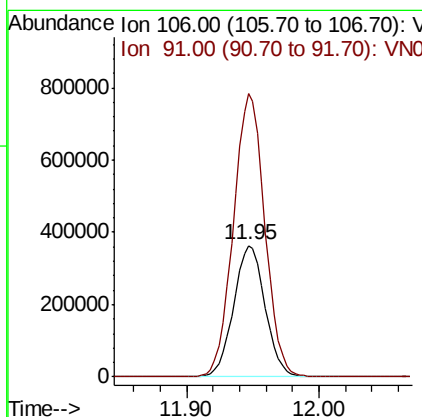
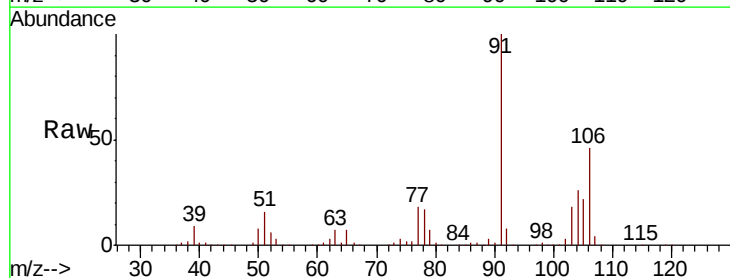
Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

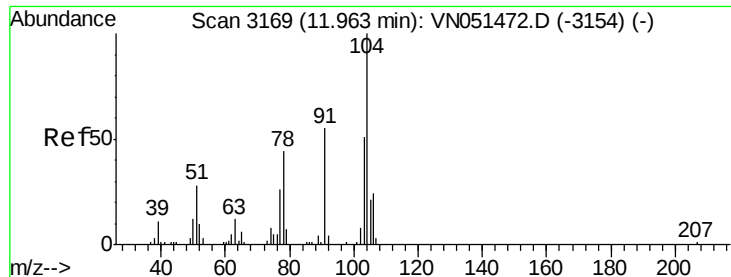
Tot Ion:106 Resp: 1273116
Ion Ratio Lower Upper
106 100
91 200.3 158.8 238.2



#68
o-Xylene
Concen: 60.527 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion:106 Resp: 597004
Ion Ratio Lower Upper
106 100
91 214.7 111.1 333.3

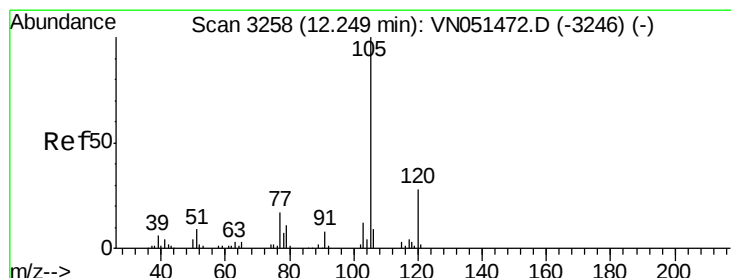
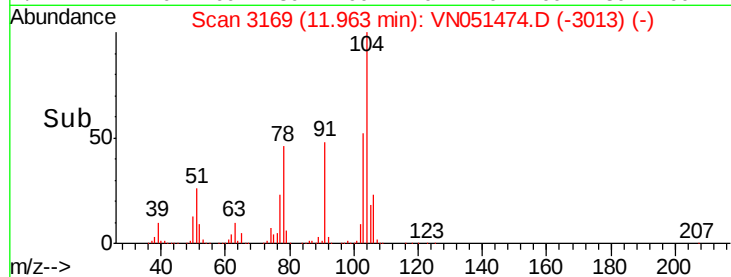
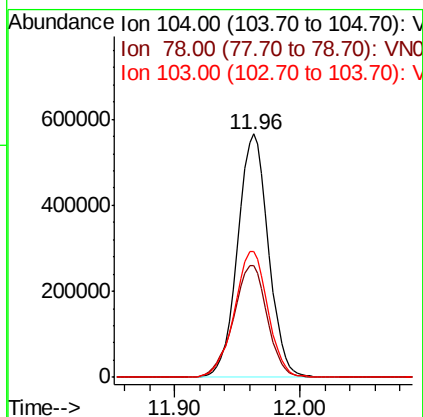
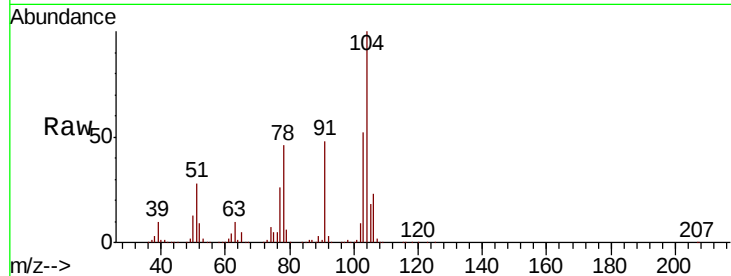




#69
Stvrene
Concen: 61.879 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

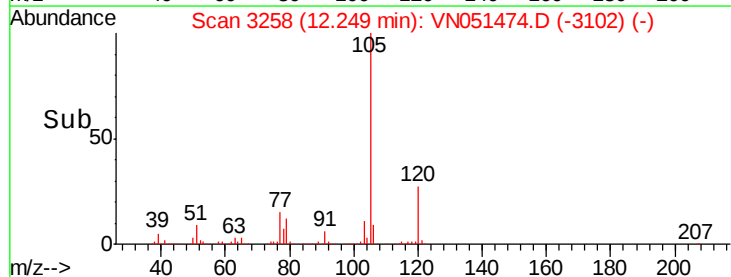
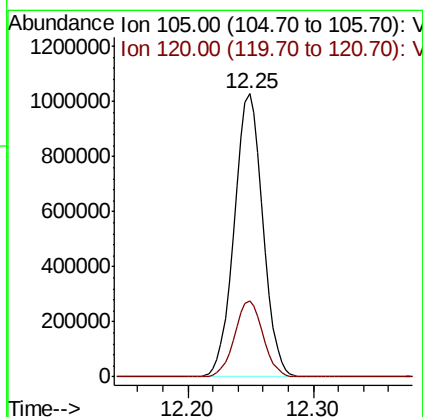
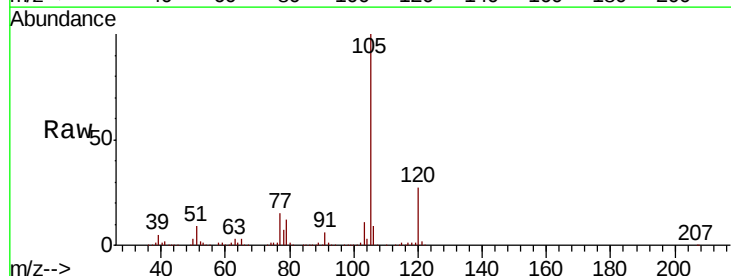
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

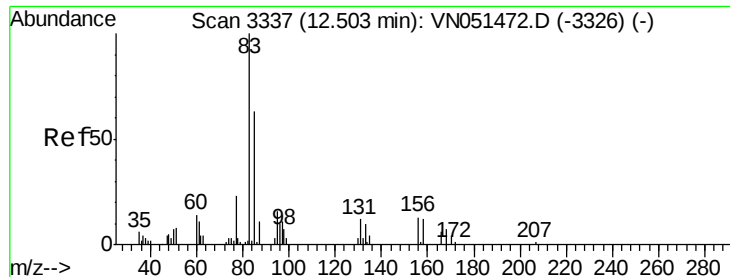
Tot Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.6	60.8
103	56.4	44.0	66.0



#70
Isopropylbenzene
Concen: 61.397 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	19.0	35.4





#71

1,1,2,2-Tetrachloroethane

Concen: 57.307 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

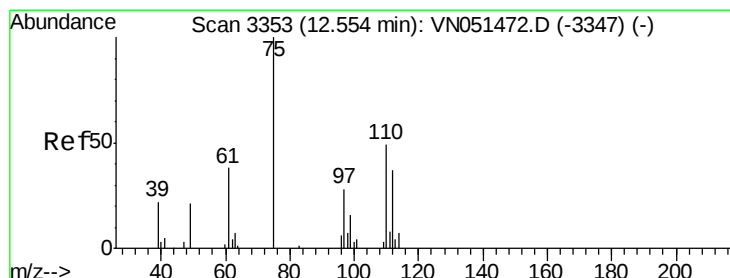
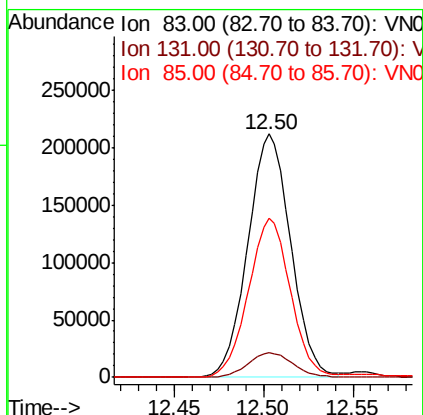
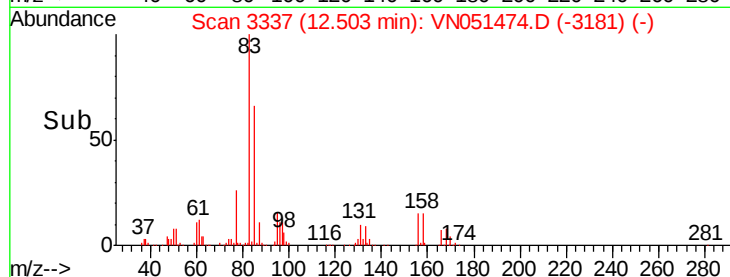
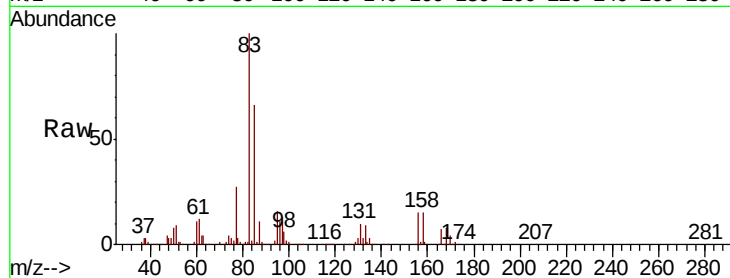
Tot Ion: 83 Resp: 356094

Ion Ratio Lower Upper

83 100

131 10.7 5.5 16.4

85 64.1 30.6 91.8



#72

1,2,3-Trichloropropane

Concen: 91.603 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN051474.D

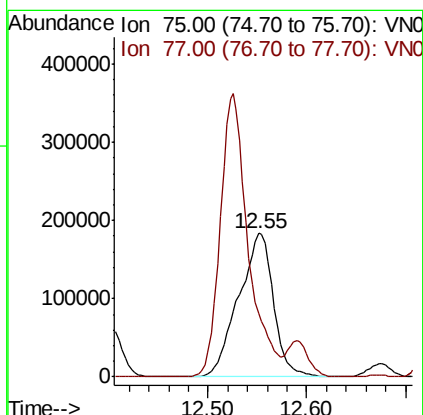
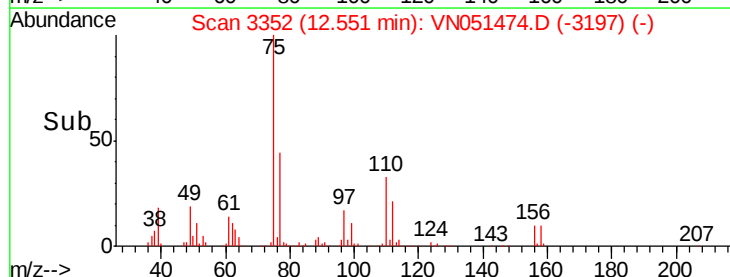
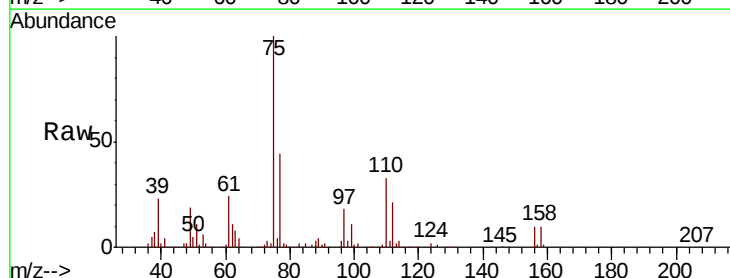
Acq: 25 Sep 2018 10:00

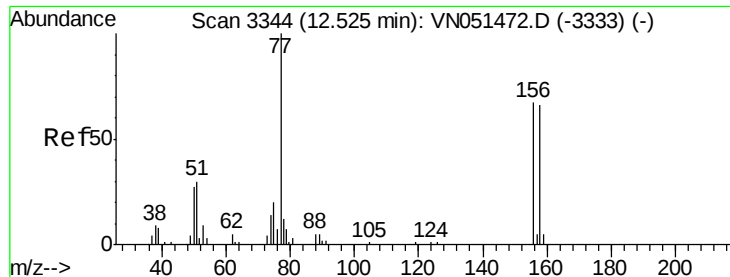
Tgt Ion: 75 Resp: 448868

Ion Ratio Lower Upper

75 100

77 159.9 0.0 400.0





#73

Bromobenzene

Concen: 59.098 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

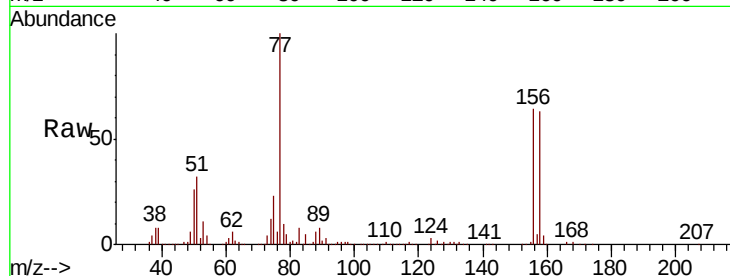
Tot Ion:156 Resp: 393161

Ion Ratio Lower Upper

156 100

77 182.6 0.0 377.4

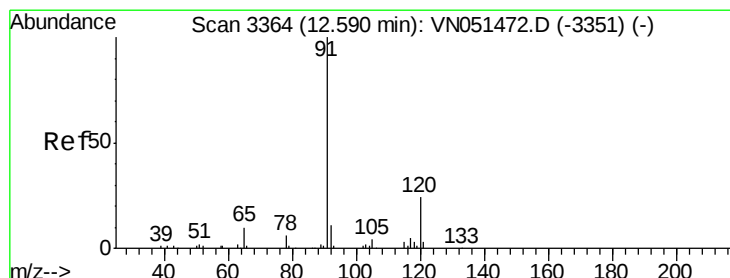
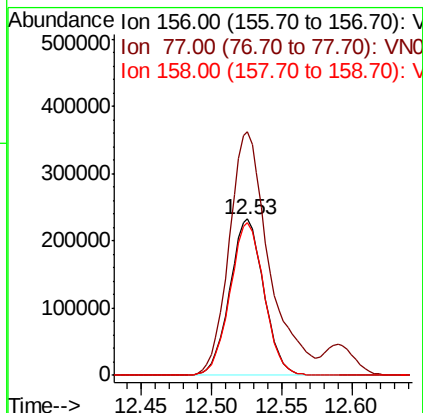
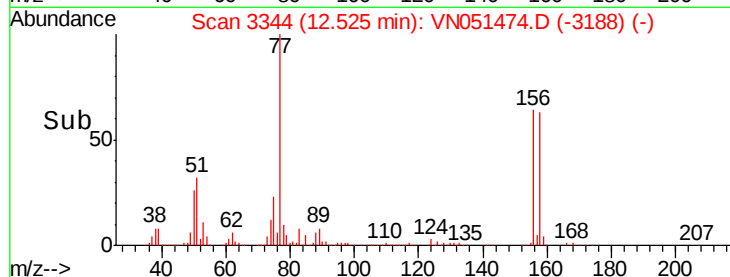
158 97.8 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 60.861 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051474.D

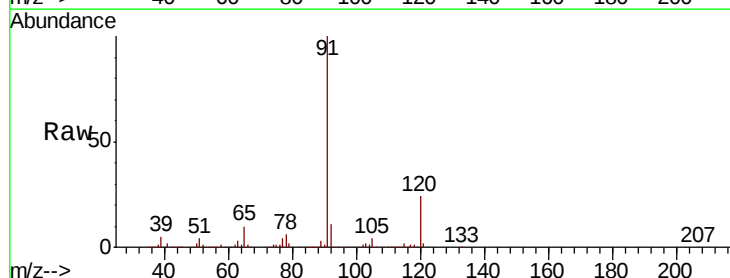
Acq: 25 Sep 2018 10:00

Tgt Ion: 91 Resp: 1867743

Ion Ratio Lower Upper

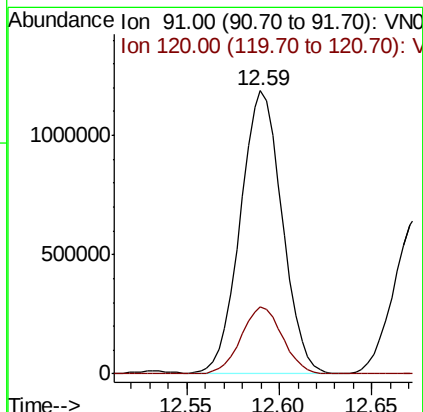
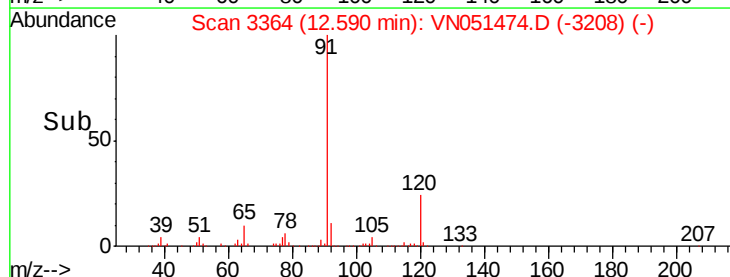
91 100

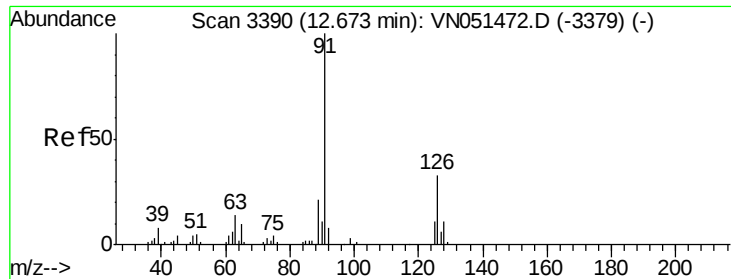
120 23.4 0.0 45.0



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 60.428 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampled :

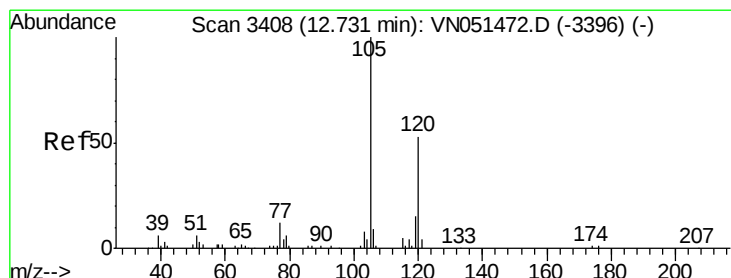
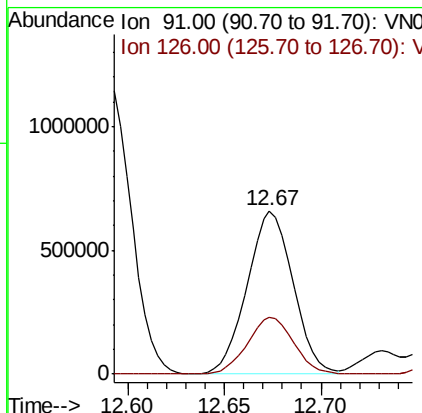
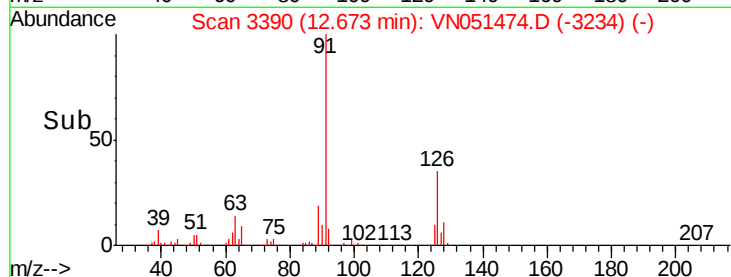
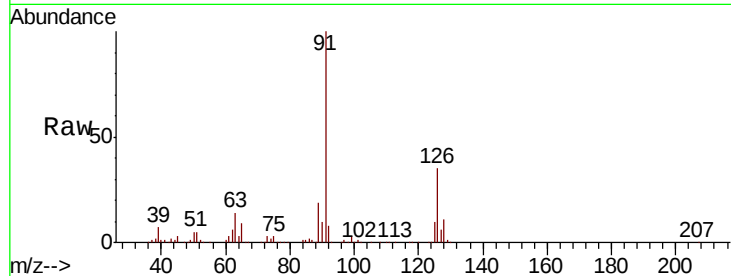
VSTDIC050

Tot Ion: 91 Resp: 1094381

Ion Ratio Lower Upper

91 100

126 34.8 0.0 67.6



#76

1,3,5-Trimethylbenzene

Concen: 62.419 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051474.D

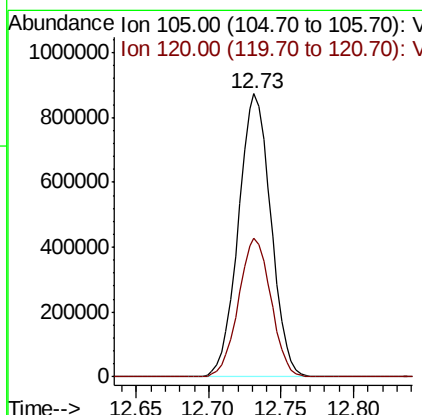
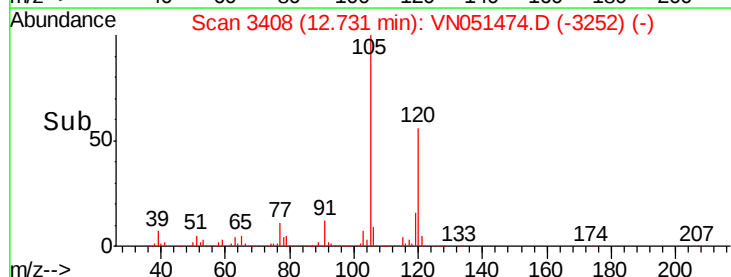
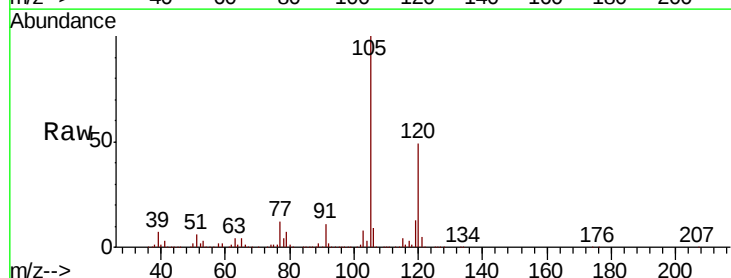
Acq: 25 Sep 2018 10:00

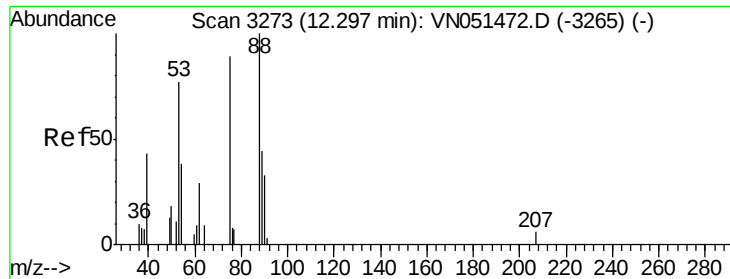
Tgt Ion: 105 Resp: 1359568

Ion Ratio Lower Upper

105 100

120 49.0 0.0 98.2





#77

t-1,4-Dichloro-2-butene

Concen: 59.341 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

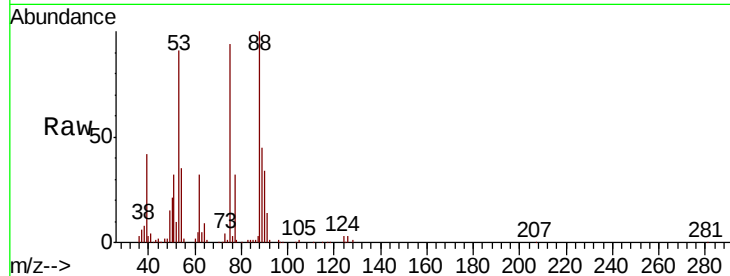
Tot Ion: 75 Resp: 100279

Ion Ratio Lower Upper

75 100

53 96.6 46.3 138.9

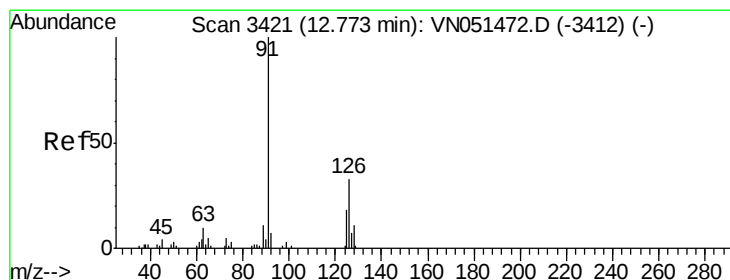
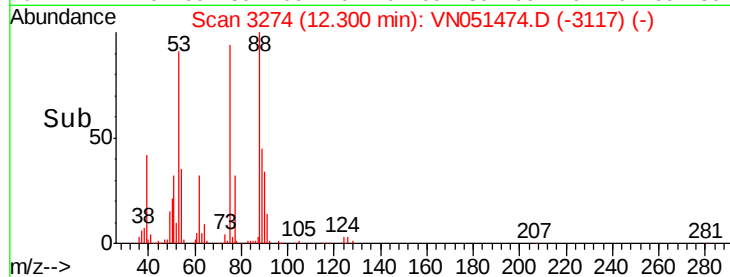
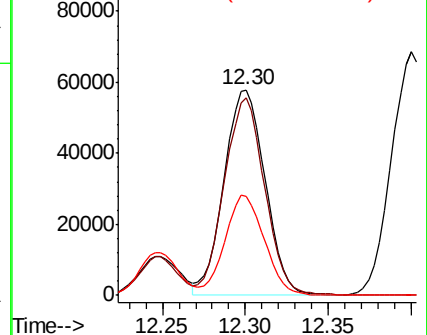
89 48.4 24.6 73.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 61.128 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051474.D

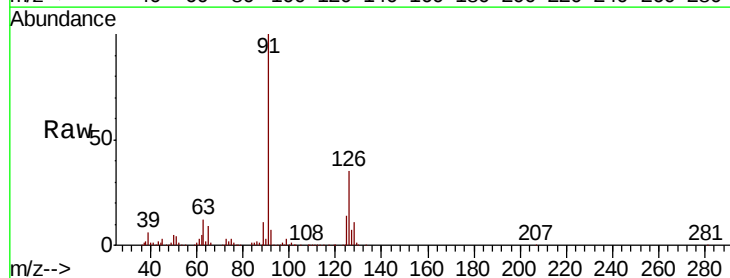
Acq: 25 Sep 2018 10:00

Tgt Ion: 91 Resp: 1098028

Ion Ratio Lower Upper

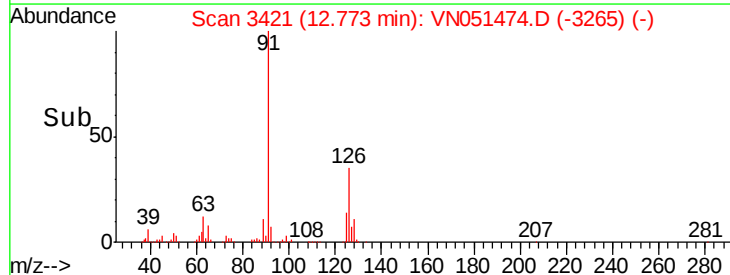
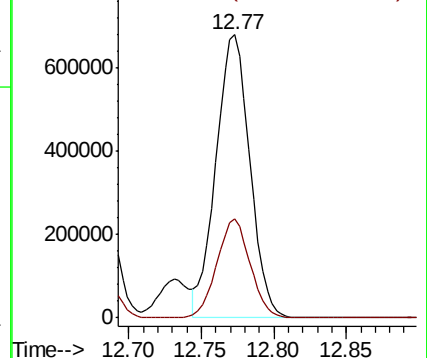
91 100

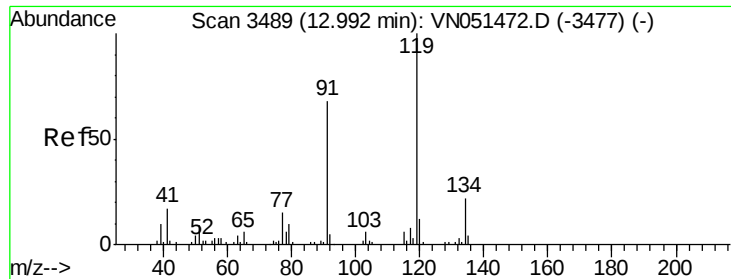
126 34.3 0.0 65.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

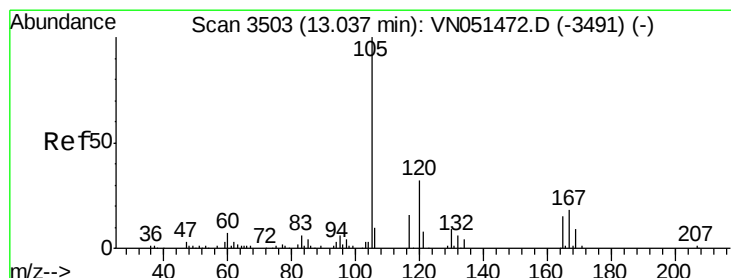
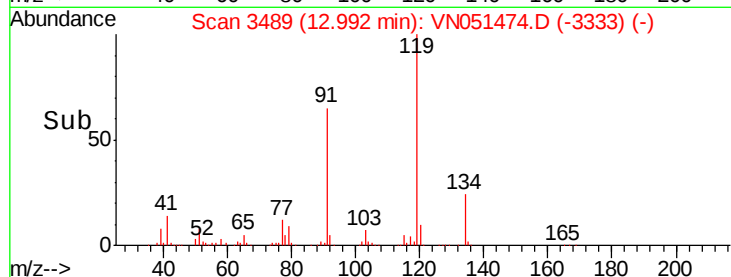
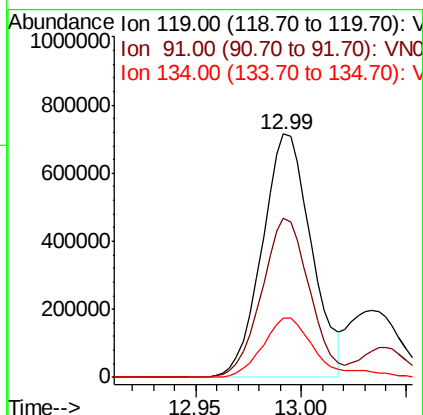
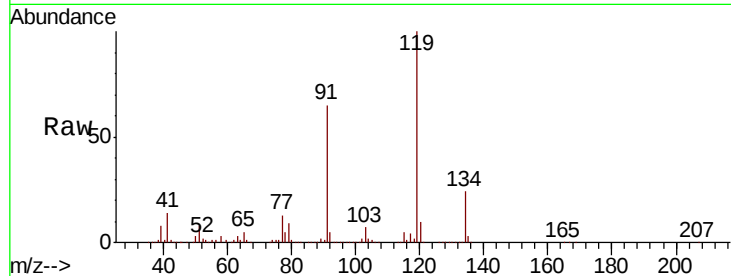




#79
tert-butylbenzene
Concen: 61.288 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

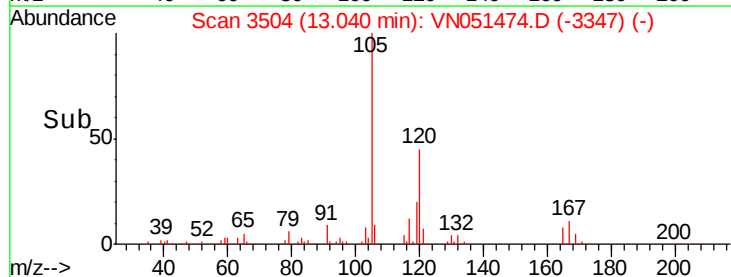
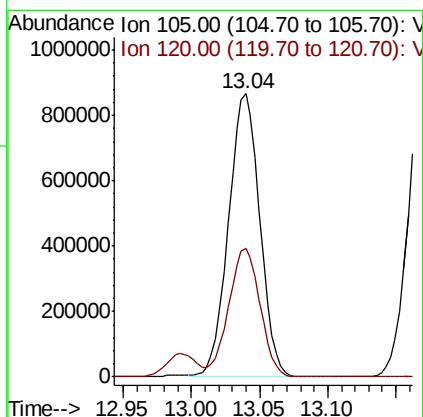
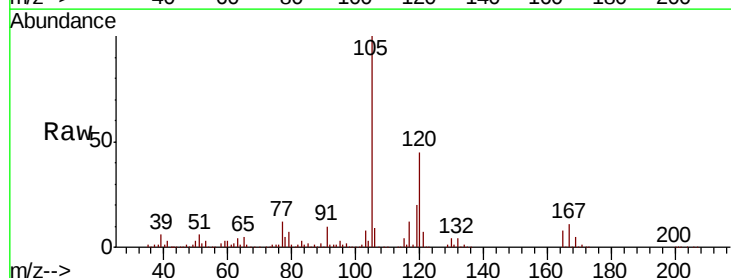
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

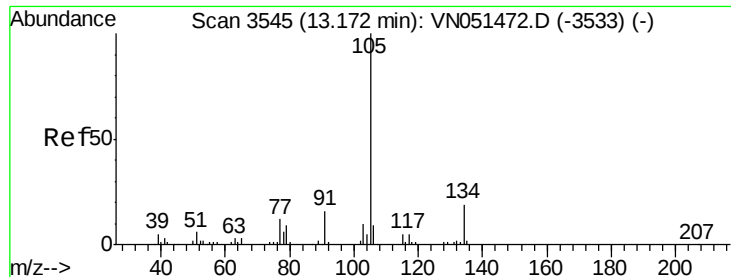
Tot Ion:119 Resp: 1162286
Ion Ratio Lower Upper
119 100
91 63.8 0.0 131.6
134 24.3 0.0 46.2



#80
1,2,4-Trimethylbenzene
Concen: 62.876 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion:105 Resp: 1376785
Ion Ratio Lower Upper
105 100
120 45.6 0.0 89.6





#81

sec-Butylbenzene

Concen: 61.763 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

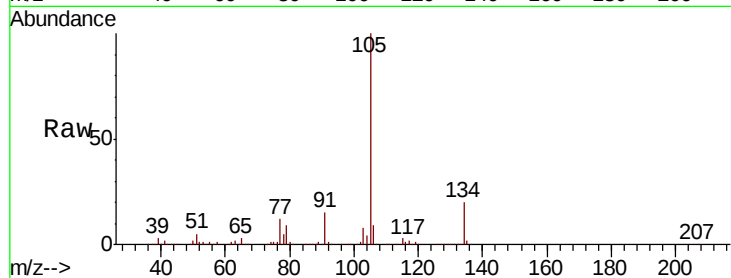
VSTDIC050

Tot Ion:105 Resp: 1611258

Ion Ratio Lower Upper

105 100

134 20.4 0.0 39.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

1200000

1000000

800000

600000

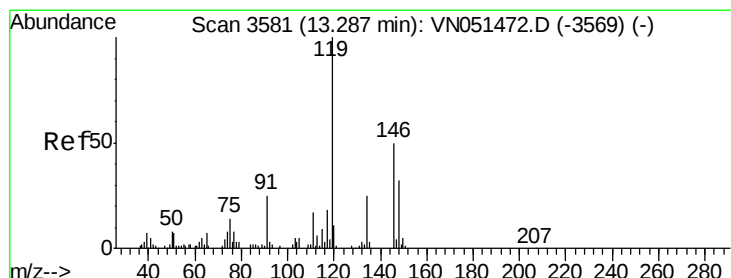
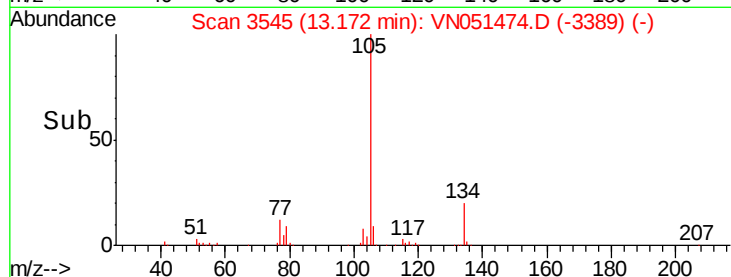
400000

200000

0

13.10 13.15 13.20 13.25

Time-->



#82

p-Isopropyltoluene

Concen: 62.807 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

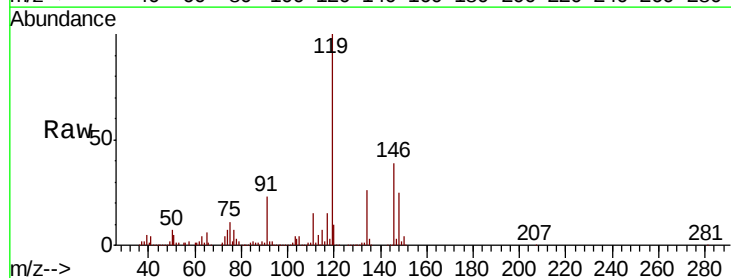
Tgt Ion:119 Resp: 1414440

Ion Ratio Lower Upper

119 100

134 26.4 0.0 53.6

91 22.9 0.0 52.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

1200000

1000000

800000

600000

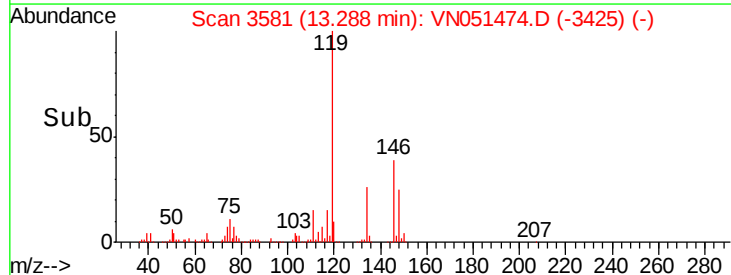
400000

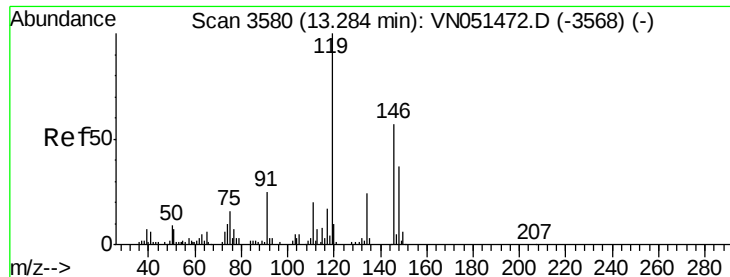
200000

0

13.20 13.25 13.30 13.35

Time-->





#83

1,3-Dichlorobenzene

Concen: 60.078 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

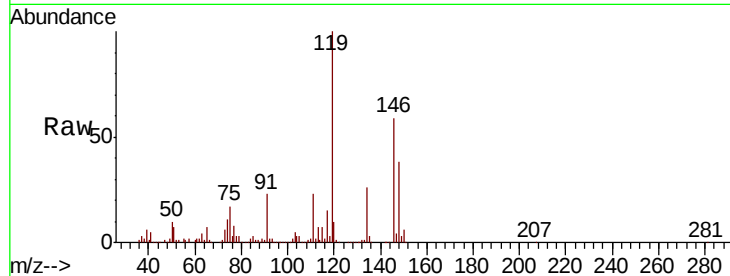
Tot Ion:146 Resp: 701037

Ion Ratio Lower Upper

146 100

111 39.1 18.1 54.3

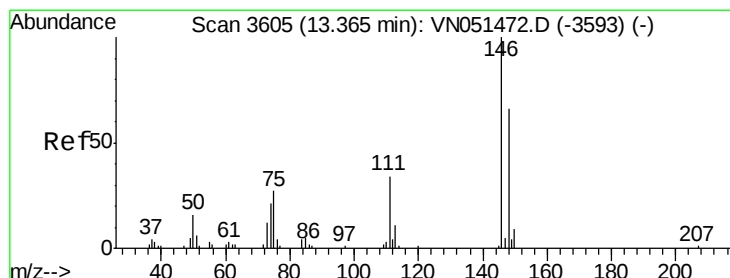
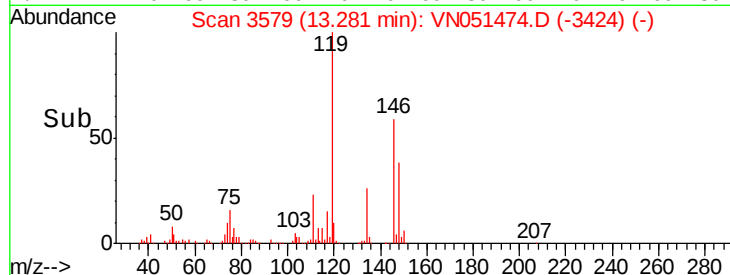
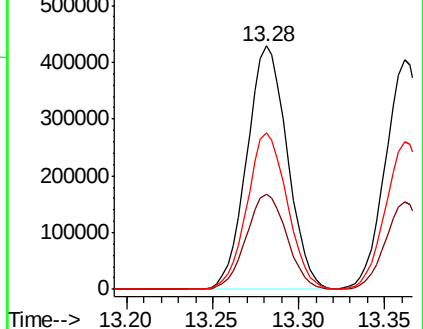
148 63.8 31.3 93.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 60.528 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

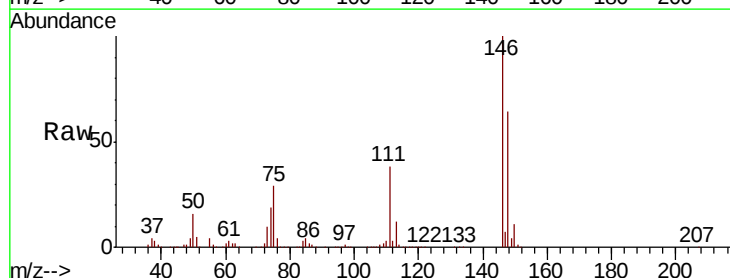
Tgt Ion:146 Resp: 663341

Ion Ratio Lower Upper

146 100

111 37.2 17.4 52.2

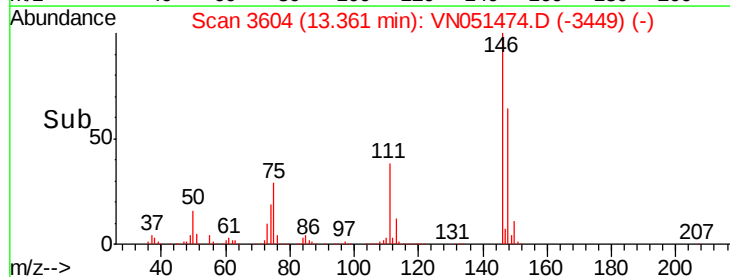
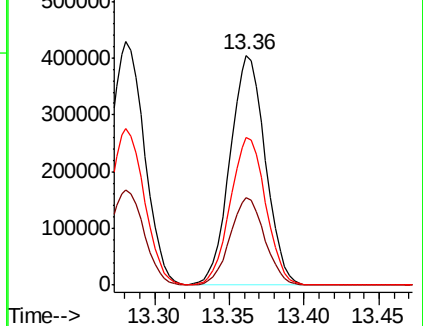
148 64.7 32.8 98.3

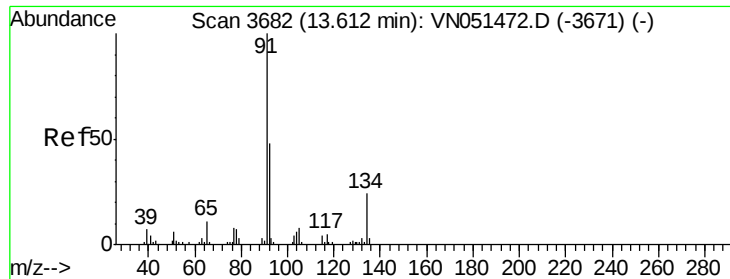


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

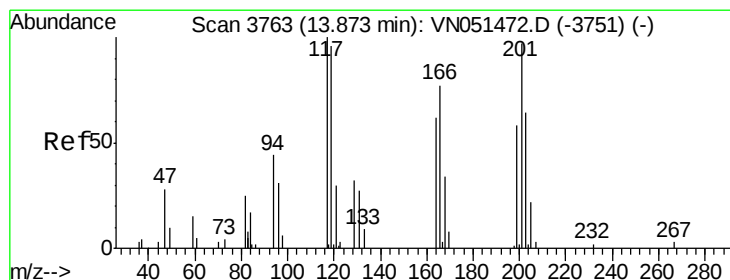
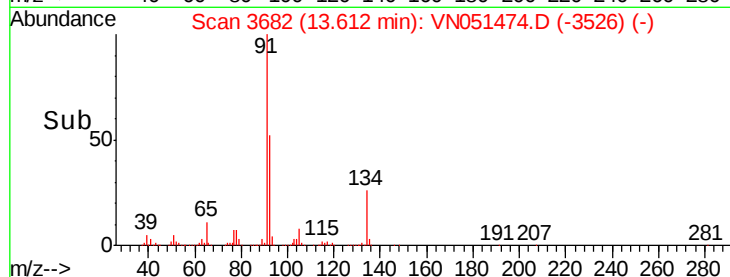
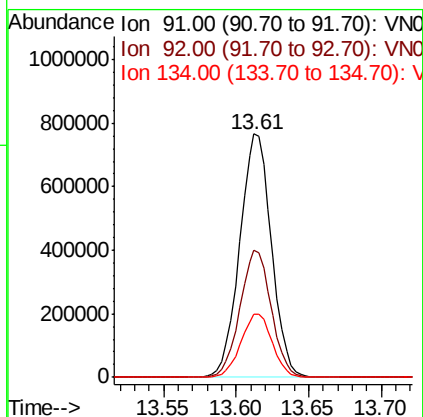
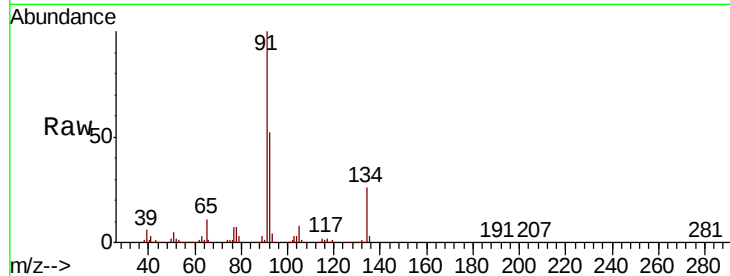




#85
n-Butylbenzene
Concen: 62.705 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

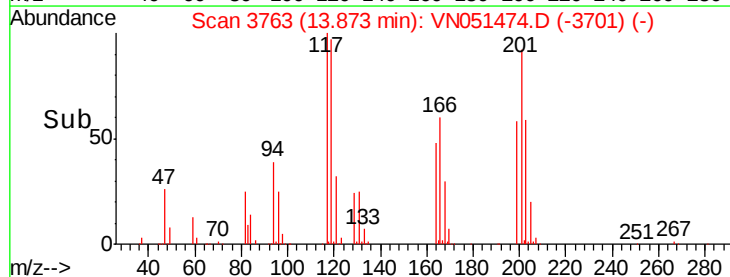
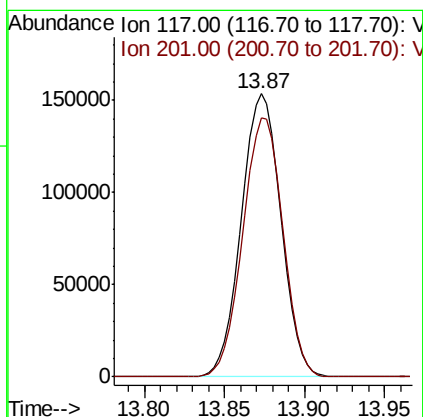
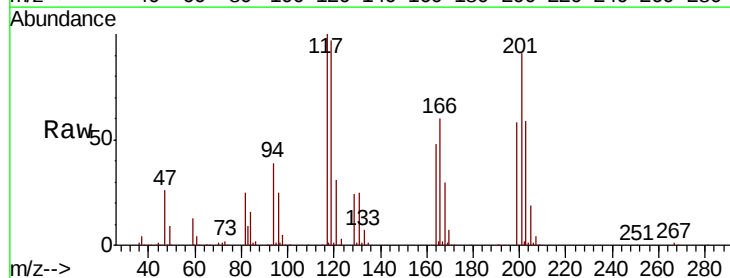
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

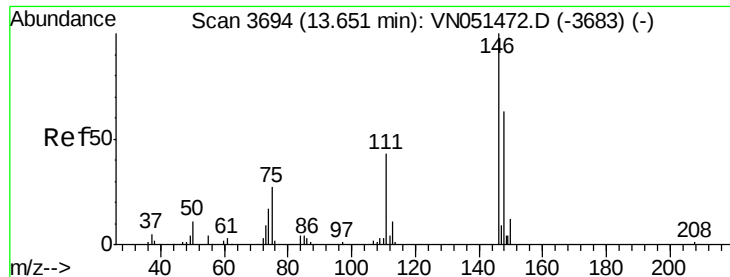
Tot Ion: 91 Resp: 1159418
Ion Ratio Lower Upper
91 100
92 51.5 0.0 97.4
134 25.8 0.0 49.6



#86
Hexachloroethane
Concen: 57.596 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051474.D
Acq: 25 Sep 2018 10:00

Tgt Ion: 117 Resp: 259912
Ion Ratio Lower Upper
117 100
201 92.5 47.8 143.3

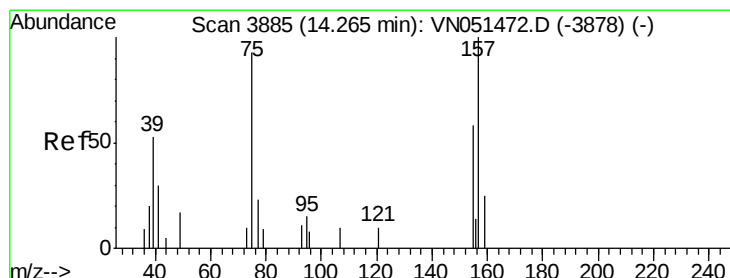
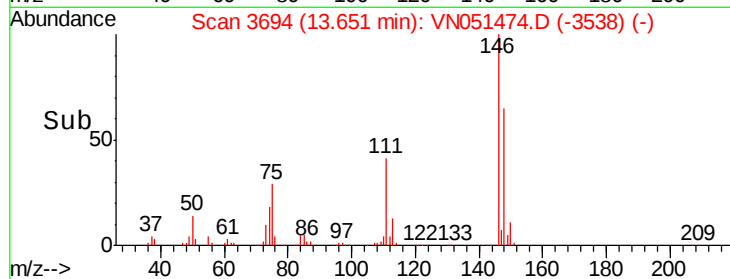
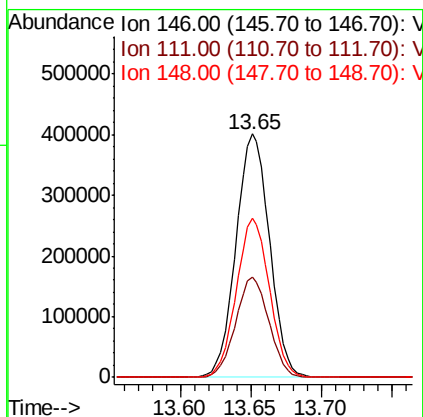
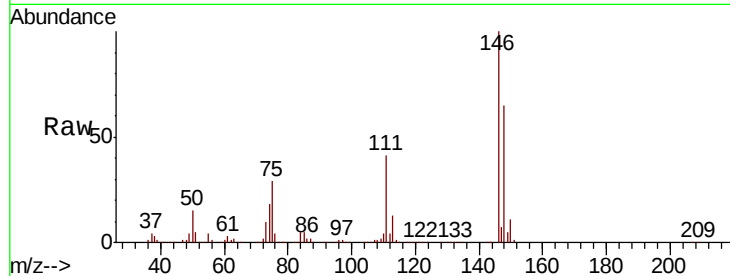




#87
 1,2-Dichlorobenzene
 Concen: 60.451 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

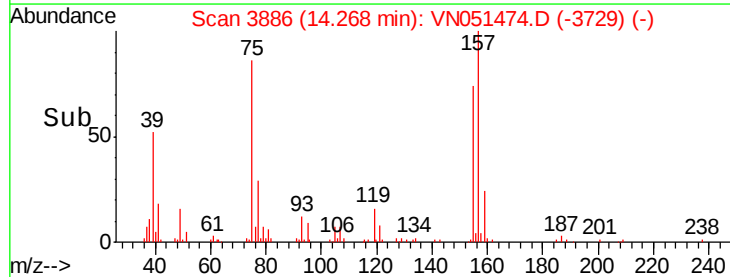
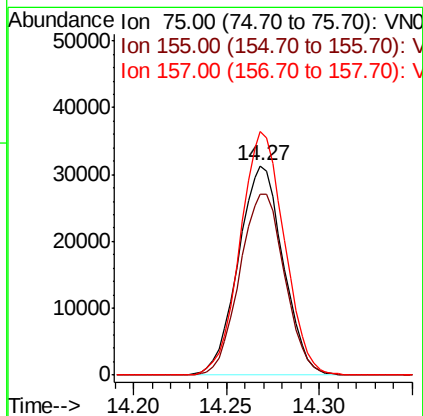
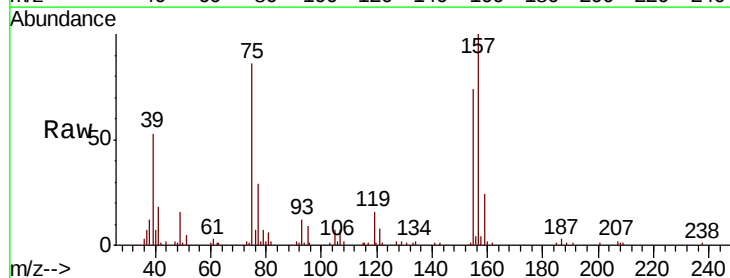
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

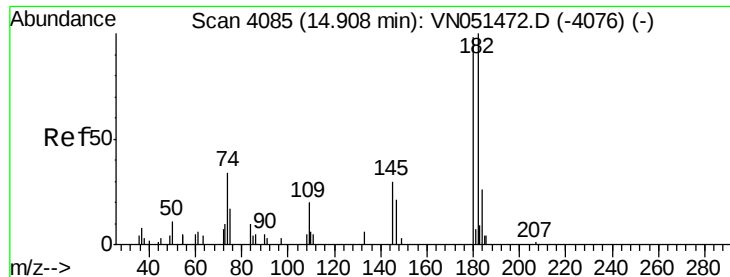
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.8	62.2
148	64.5	33.2	99.6



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 57.321 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	86.7	57.0	85.6#
157	114.6	87.4	131.0

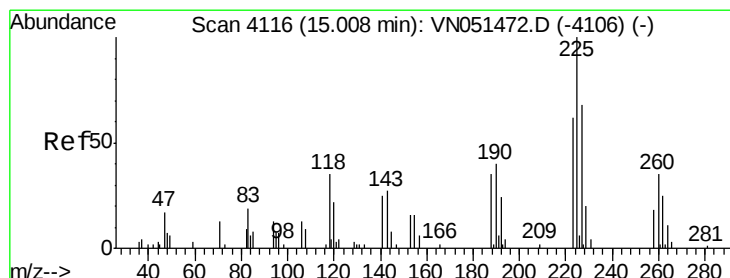
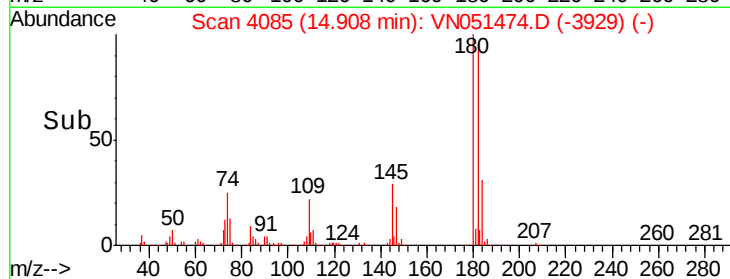
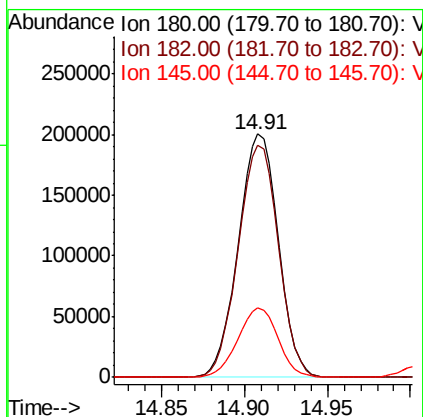
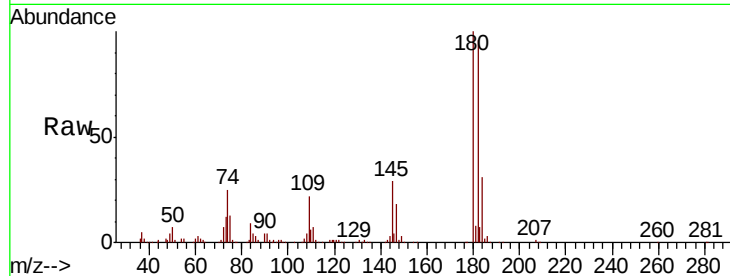




#89
 1,2,4-Trichlorobenzene
 Concen: 61.220 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

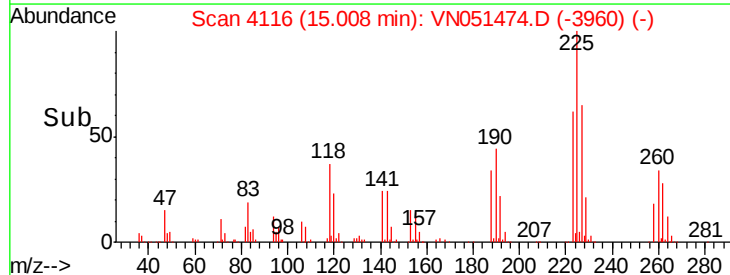
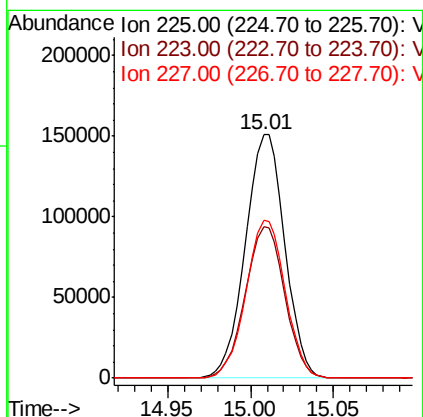
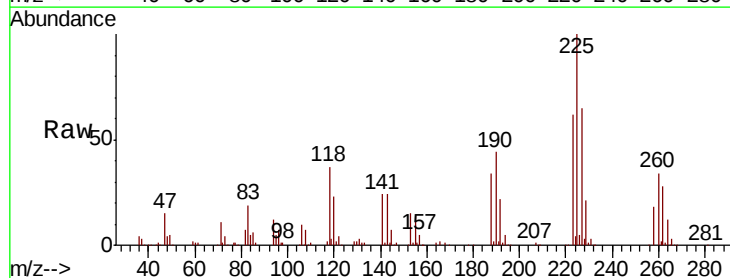
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

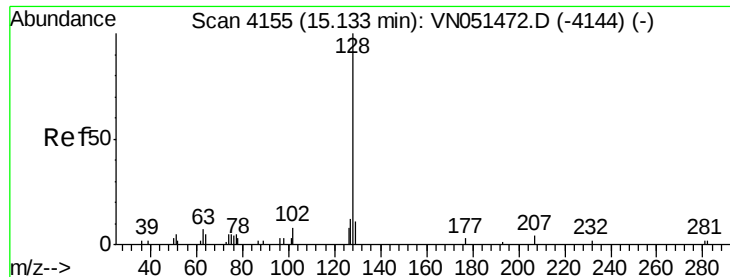
Tot Ion:180 Resp: 337322
 Ion Ratio Lower Upper
 180 100
 182 96.0 77.7 116.5
 145 28.6 23.4 35.2



#90
 Hexachlorobutadiene
 Concen: 58.487 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN051474.D
 Acq: 25 Sep 2018 10:00

Tgt Ion:225 Resp: 249760
 Ion Ratio Lower Upper
 225 100
 223 62.4 0.0 117.0
 227 64.3 0.0 127.0





#91

Naphthalene

Concen: 57.768 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

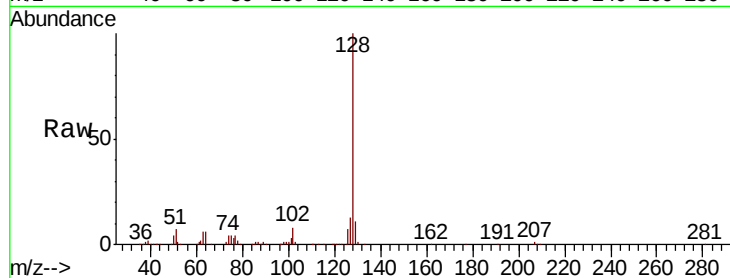
Tot Ion:128 Resp: 600609

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

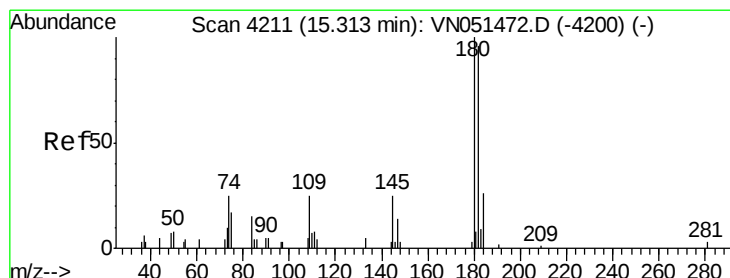
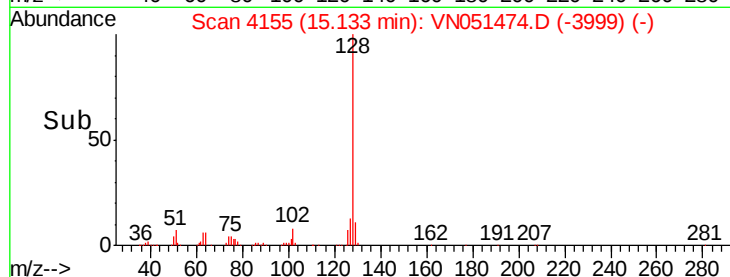
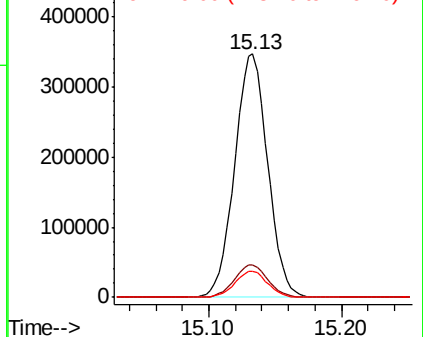
129 10.7 8.4 12.6



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



#92

1,2,3-Trichlorobenzene

Concen: 60.920 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051474.D

Acq: 25 Sep 2018 10:00

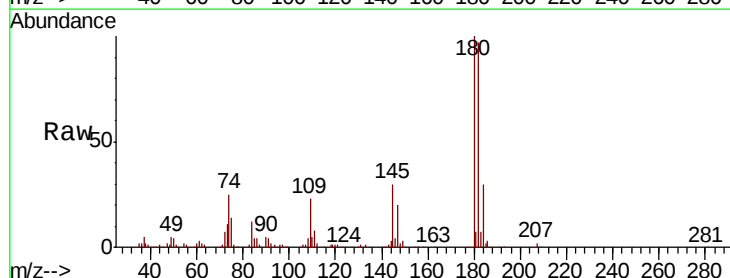
Tgt Ion:180 Resp: 338856

Ion Ratio Lower Upper

180 100

182 96.1 0.0 198.0

145 30.2 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

