

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101218\
 Data File : VN051837.D
 Acq On : 12 Oct 2018 17:04
 Operator : MD\SY
 Sample : VSTDCCC050EC
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Quant Time: Oct 13 01:57:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 10:23:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	131669	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	751183	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	655517	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	250562	31.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.23%
60) 4-Bromofluorobenzene	12.40	95	272307	28.81	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.03%
63) Toluene-d8	10.09	98	862529	30.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	102706	20.078	ug/l 96
3) Chloromethane	2.06	50	111914	20.701	ug/l 99
4) Vinyl Chloride	2.18	62	165458	20.494	ug/l 97
5) Bromomethane	2.57	94	145508	20.398	ug/l 86
6) Chloroethane	2.70	64	122364	21.030	ug/l 98
7) Trichlorofluoromethane	3.01	101	238447	20.716	ug/l 94
8) Diethyl Ether	3.41	74	67660	20.192	ug/l 76
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132602	20.229	ug/l # 39
10) 1,1-Dichloroethene	3.74	96	123447	20.364	ug/l 86
11) Methyl Iodide	3.95	142	176076	19.980	ug/l 95
12) Methyl Acetate	4.33	43	78361	20.816	ug/l 96
13) Acrolein	3.61	56	23878	96.274	ug/l 82
14) Acrylonitrile	5.00	53	172780	102.695	ug/l # 62
15) Acetone	3.82	58	41155	98.953	ug/l 97
16) Carbon Disulfide	4.05	76	299198	18.793	ug/l 98
17) Allyl chloride	4.33	41	143166	19.892	ug/l 78
18) Methylene Chloride	4.55	84	140659	20.752	ug/l 88
19) trans-1,2-Dichloroethene	5.04	96	139616	20.170	ug/l 84
20) Diisopropyl ether	5.96	45	326236	20.353	ug/l # 86
21) 1,1-Dichloroethane	5.85	63	230361	20.568	ug/l # 96
22) cis-1,2-Dichloroethene	6.83	96	162835	20.028	ug/l # 83
23) tert-Butyl Alcohol	4.80	59	43228	97.557	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	365521	20.928	ug/l # 67
25) Chloroform	7.37	83	269741	20.300	ug/l 95
26) Cyclohexane	7.65	56	184356	19.415	ug/l # 71
29) 1,1-Dichloropropene	7.79	75	189564	19.577	ug/l 94
30) 2-Butanone	6.84	43	190652	94.204	ug/l # 86
31) 2,2-Dichloropropane	6.83	77	202464	17.774	ug/l # 79
32) 1,1,1-Trichloroethane	7.57	97	254356	19.814	ug/l 95
33) Carbon Tetrachloride	7.77	117	224858	19.360	ug/l 92
34) Benzene	8.04	78	573631	20.028	ug/l # 67
35) Methacrylonitrile	7.18	41	48063	18.076	ug/l 90
36) 1,2-Dichloroethane	8.13	62	183881	20.036	ug/l 98
37) Trichloroethene	8.84	130	176150	19.812	ug/l 97
38) Methylcyclohexane	9.08	83	232507	18.722	ug/l 79
39) 1,2-Dichloropropane	9.12	63	134309	19.912	ug/l 96
40) Dibromomethane	9.21	93	97776	19.531	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	199447	19.288	ug/l	94
42) Vinyl Acetate	5.90	43	1119684	98.280	ug/l #	90
43) Ethyl Acetate	6.93	43	90079	20.498	ug/l	96
44) Isopropyl Acetate	8.17	43	170024	19.370	ug/l	95
45) 1,4-Dioxane	9.20	88	28573	405.412	ug/l #	73
46) Methyl methacrylate	9.20	41	81405	20.107	ug/l	78
48) t-1,3-Dichloropropene	10.38	75	186768	18.522	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	210476	18.935	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	135999	19.662	ug/l	96
51) Ethyl methacrylate	10.43	69	155060	19.581	ug/l	84
52) 1,3-Dichloropropane	10.71	76	215691	20.205	ug/l	97
53) Dibromochloromethane	10.90	129	159535	18.644	ug/l	92
54) 1,2-Dibromoethane	11.01	107	144568	19.912	ug/l	93
55) 2-Chloroethyl vinyl ether	9.70	63	331433	97.905	ug/l #	93
56) Bromoform	12.13	173	96070	17.024	ug/l #	95
58) 4-Methyl-2-Pentanone	9.99	43	465572	106.133	ug/l #	87
59) 2-Hexanone	10.75	43	284971	96.293	ug/l #	90
61) Tetrachloroethene	10.63	164	178043	21.238	ug/l	96
62) Toluene	10.16	91	665644	20.440	ug/l	99
64) Chlorobenzene	11.43	112	433020	20.303	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	163573	19.982	ug/l	98
66) Ethyl Benzene	11.51	91	716008	19.894	ug/l	98
67) m/p-Xylenes	11.62	106	567278	38.877	ug/l	100
68) o-Xylene	11.95	106	288193	20.035	ug/l	89
69) Styrene	11.96	104	425927	19.299	ug/l	97
70) Isopropylbenzene	12.25	105	759763	19.806	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	155545	20.533	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	177536	29.791	ug/l	73
73) Bromobenzene	12.53	156	185536	19.527	ug/l	82
74) n-propylbenzene	12.59	91	805285	19.517	ug/l	95
75) 2-Chlorotoluene	12.68	91	480217	19.852	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	618076	19.485	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31968	16.219	ug/l	97
78) 4-Chlorotoluene	12.77	91	459429	19.331	ug/l	93
79) tert-butylbenzene	12.99	119	573812	19.670	ug/l	96
80) 1,2,4-Trimethylbenzene	13.04	105	612314	19.314	ug/l	96
81) sec-Butylbenzene	13.17	105	742045	19.445	ug/l	97
82) p-Isopropyltoluene	13.29	119	641041	18.772	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	309762	18.476	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	285354	18.079	ug/l	97
85) n-Butylbenzene	13.62	91	468283	18.186	ug/l	95
86) Hexachloroethane	13.88	117	106220	18.040	ug/l	88
87) 1,2-Dichlorobenzene	13.65	146	309077	19.042	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21309	18.836	ug/l #	75
89) 1,2,4-Trichlorobenzene	14.91	180	117240	18.672	ug/l	100
90) Hexachlorobutadiene	15.01	225	96814	18.509	ug/l	95
91) Naphthalene	15.13	128	242920	19.476	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	126944	17.190	ug/l	95

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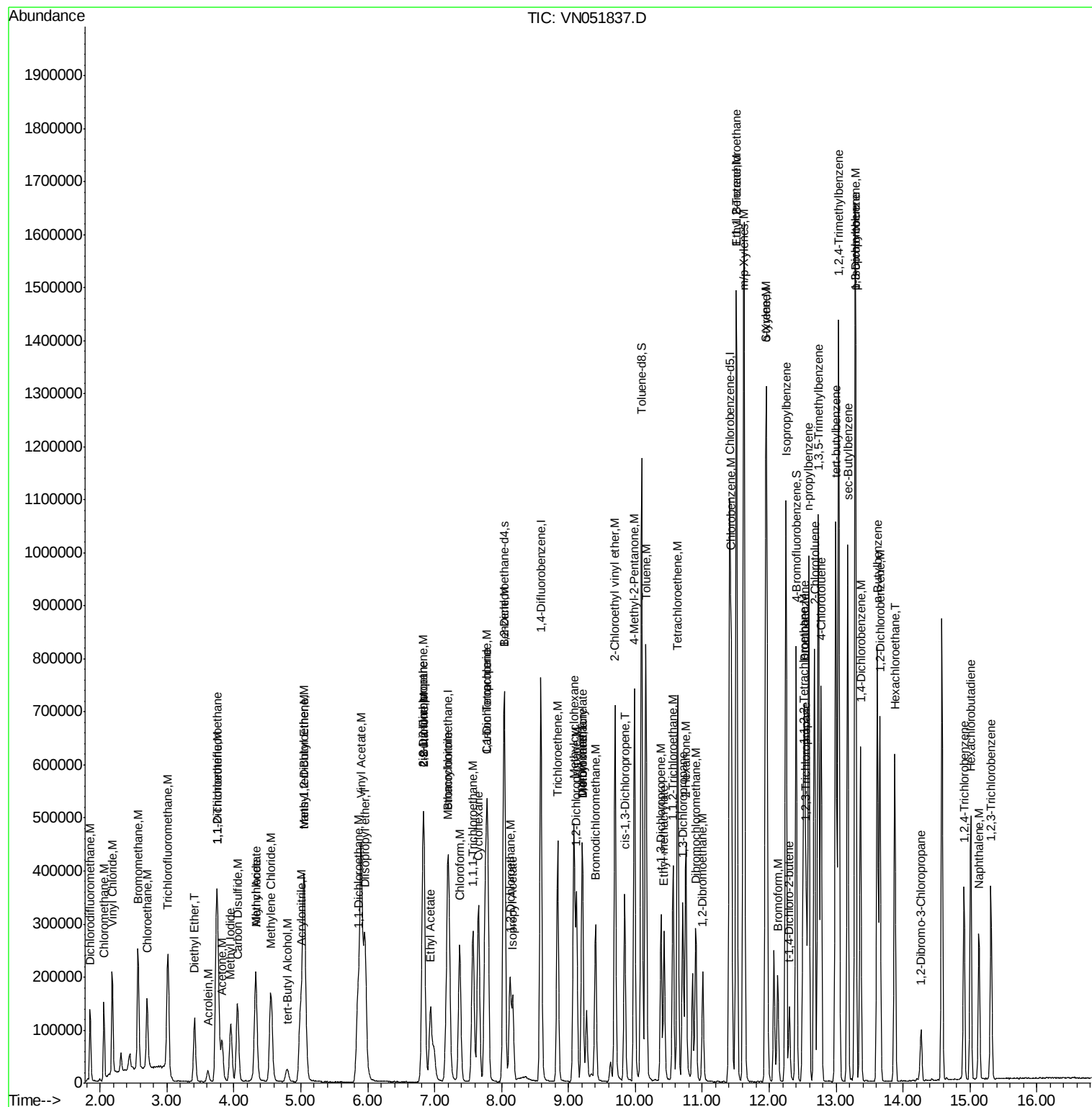
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

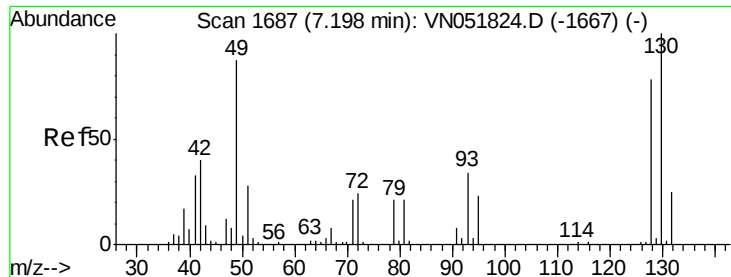
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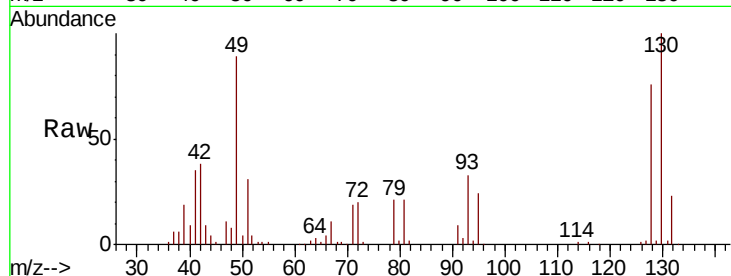




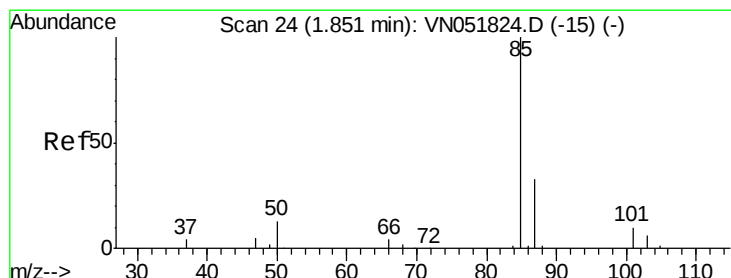
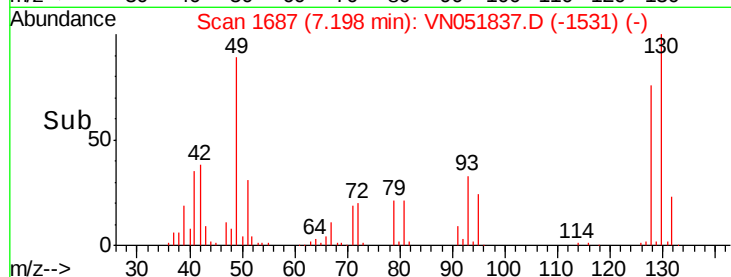
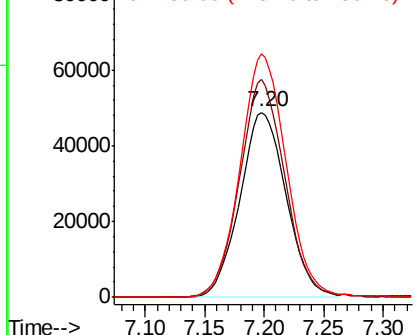
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

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ClientSampleId :
VSTDCCC050EC

Tot Ion:128 Resp: 131669
Ion Ratio Lower Upper
128 100
49 116.0 0.0 403.3
130 130.8 0.0 326.0

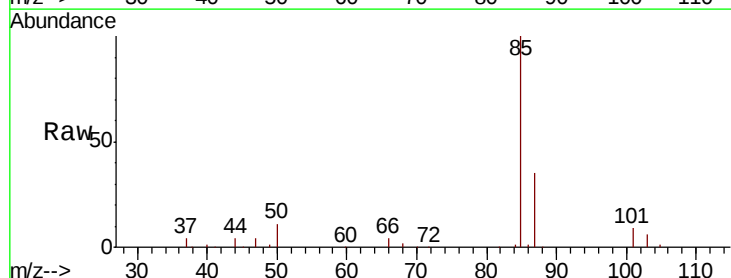


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

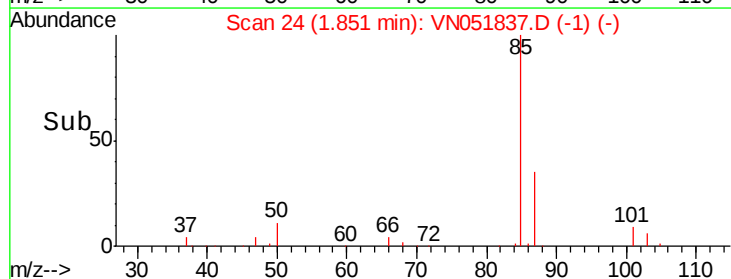
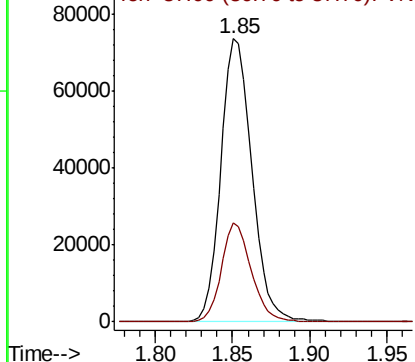


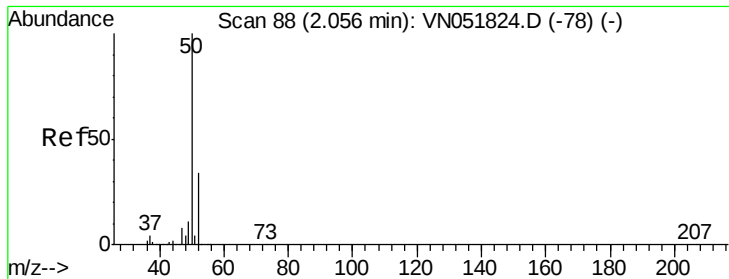
#2
Dichlorodifluoromethane
Concen: 20.078 ug/l
RT: 1.85 min Scan# 24
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 85 Resp: 102706
Ion Ratio Lower Upper
85 100
87 34.9 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 20.701 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

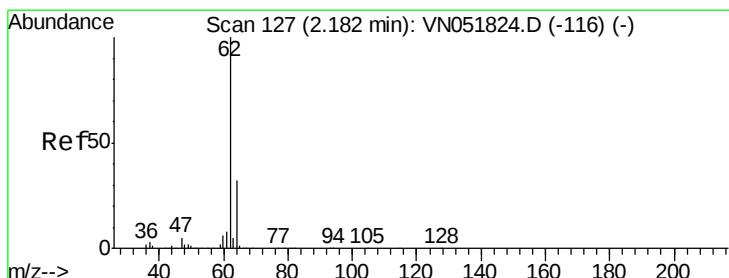
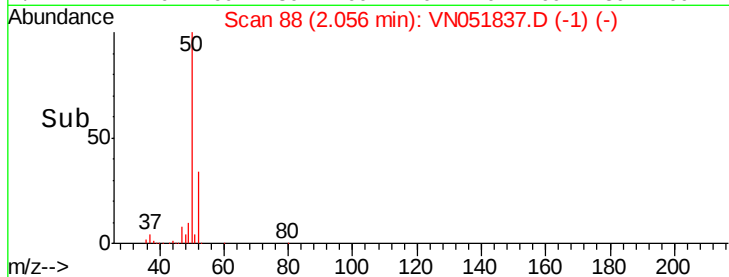
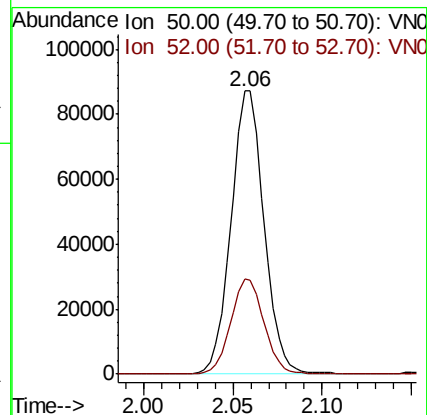
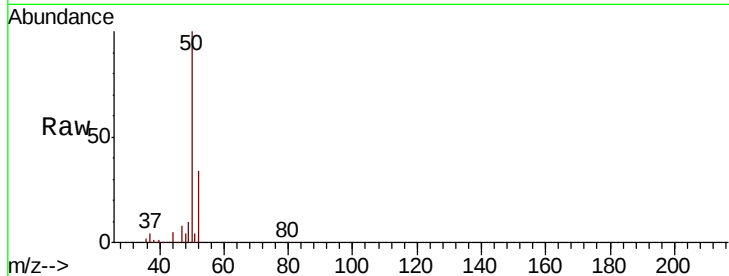
VSTDCCC050EC

Tot Ion: 50 Resp: 111914

Ion Ratio Lower Upper

50 100

52 33.6 27.2 40.8



#4

Vinyl Chloride

Concen: 20.494 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN051837.D

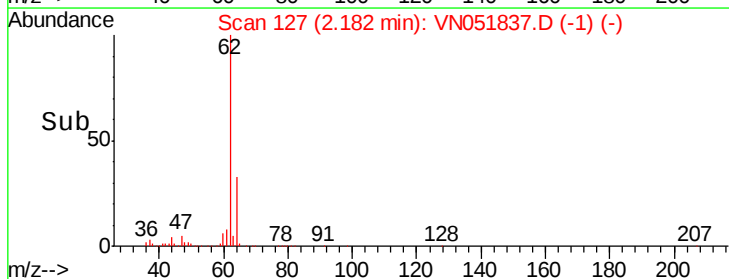
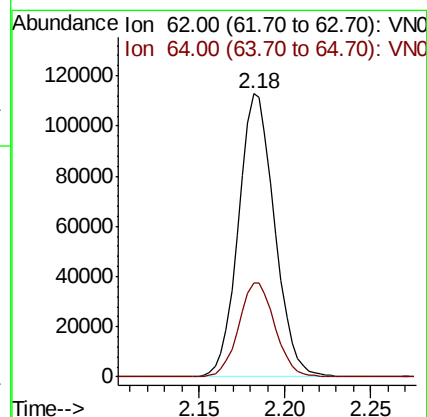
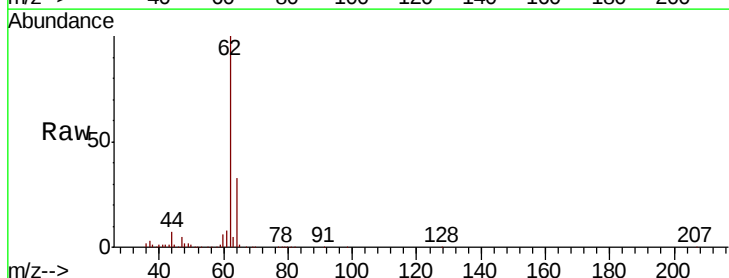
Acq: 12 Oct 2018 17:04

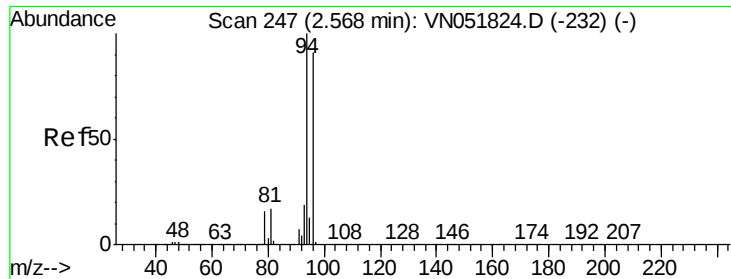
Tgt Ion: 62 Resp: 165458

Ion Ratio Lower Upper

62 100

64 33.3 25.4 38.2





#5

Bromomethane

Concen: 20.398 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

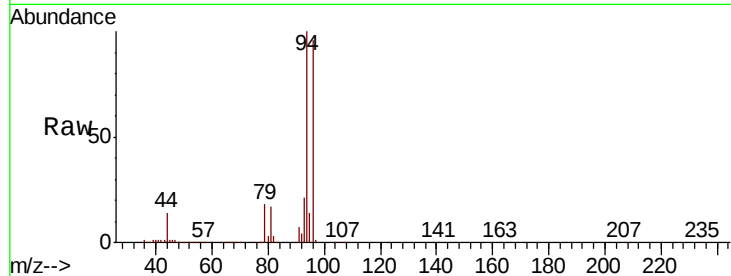
VSTDCCC050EC

Tot Ion: 94 Resp: 145508

Ion Ratio Lower Upper

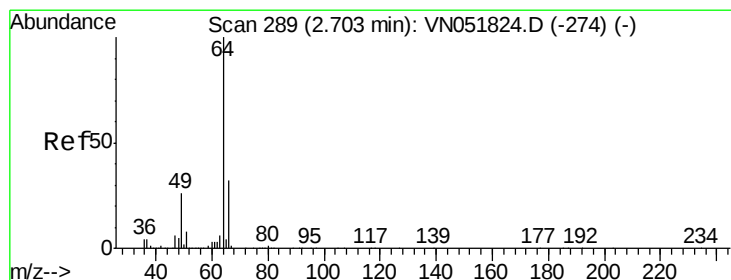
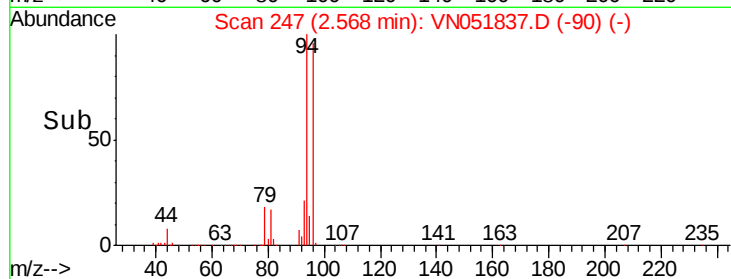
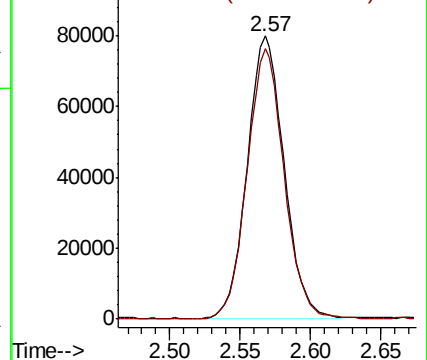
94 100

96 95.8 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: 21.030 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.00 min

Lab File: VN051837.D

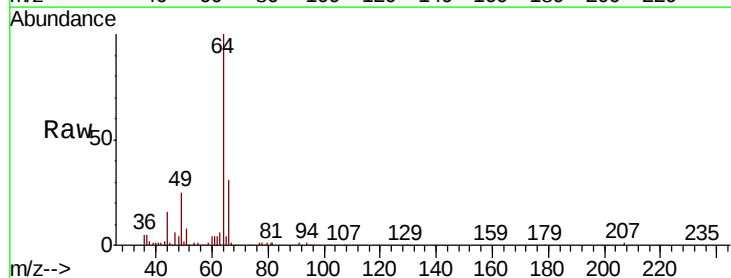
Acq: 12 Oct 2018 17:04

Tgt Ion: 64 Resp: 122364

Ion Ratio Lower Upper

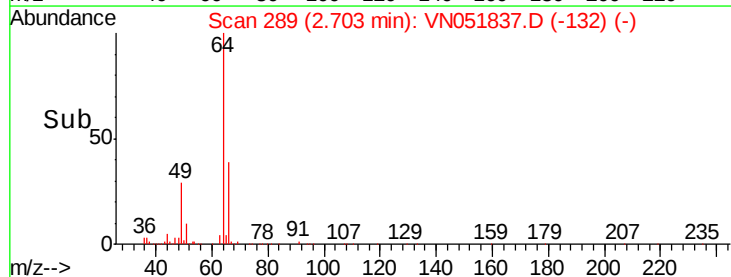
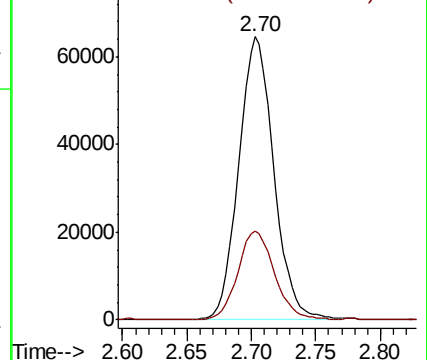
64 100

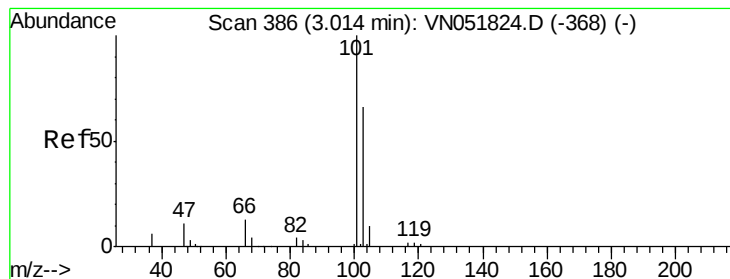
66 31.0 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



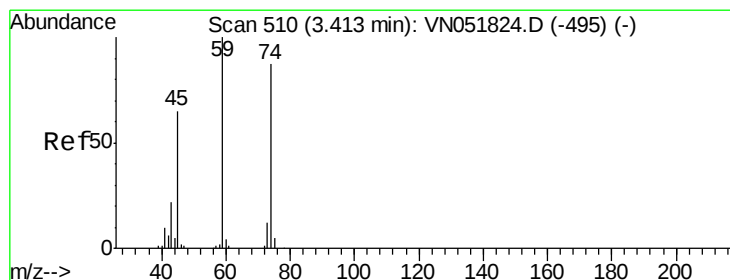
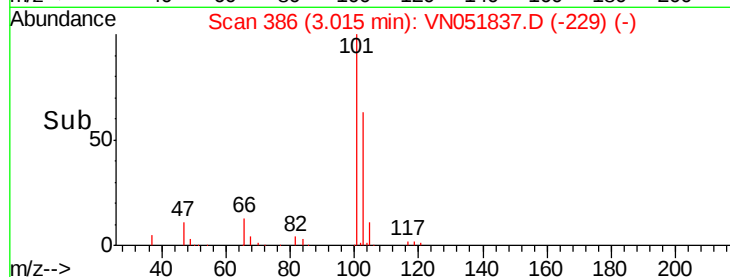
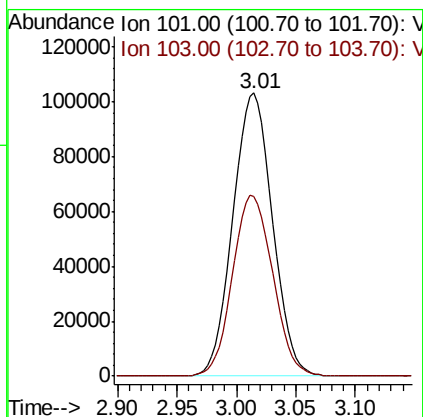
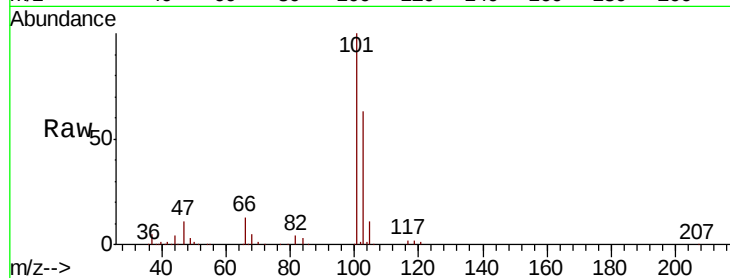


#7

Trichlorofluoromethane
 Concen: 20.716 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
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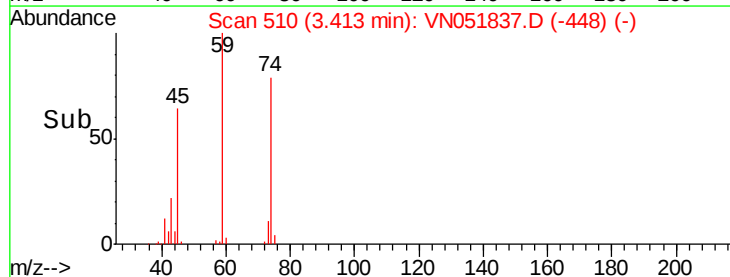
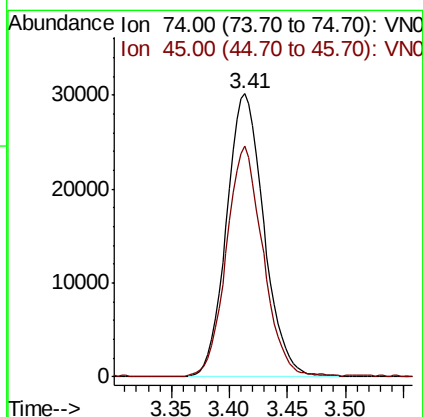
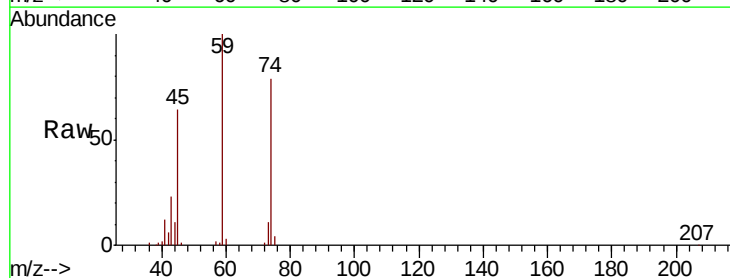
Tot Ion:101 Resp: 238447
 Ion Ratio Lower Upper
 101 100
 103 63.2 54.8 82.2

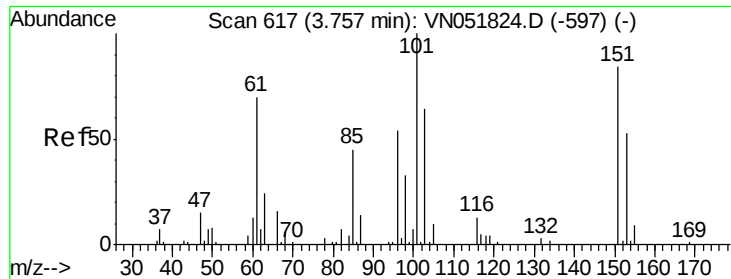


#8

Diethyl Ether
 Concen: 20.192 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 74 Resp: 67660
 Ion Ratio Lower Upper
 74 100
 45 79.6 20.7 186.5

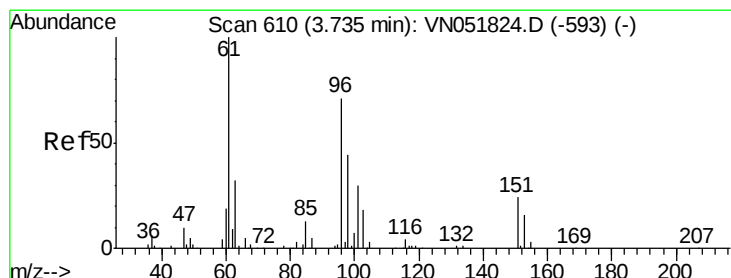
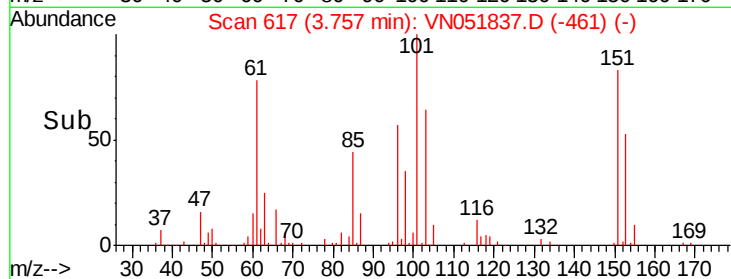
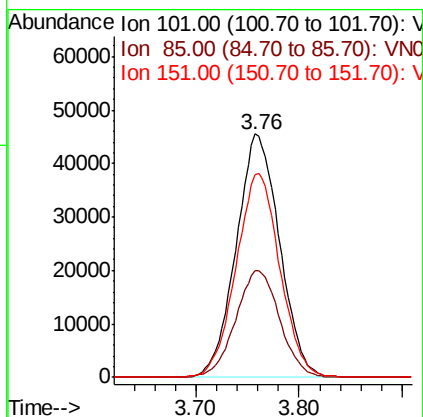
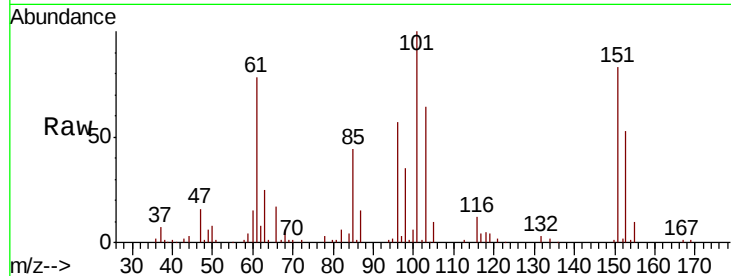




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 20.229 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

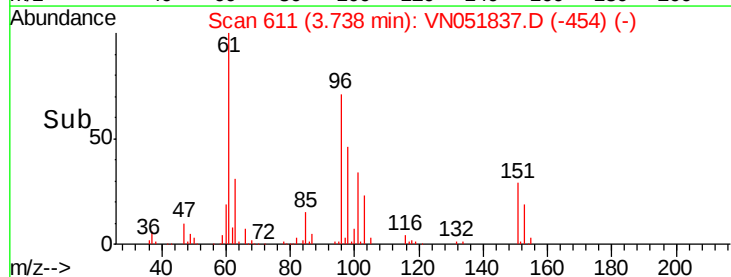
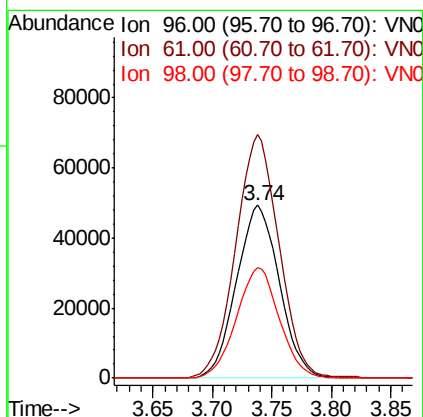
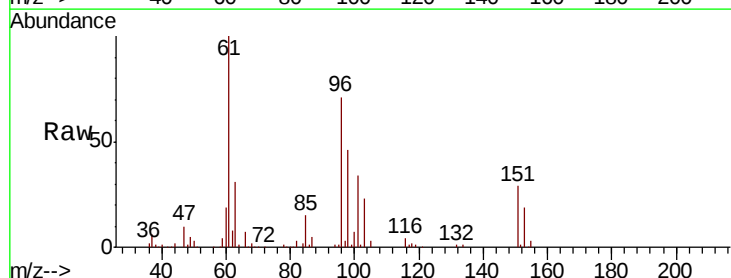
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

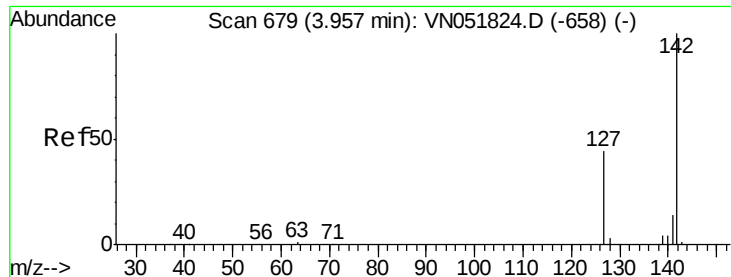
Tot Ion:101 Resp: 132602
 Ion Ratio Lower Upper
 101 100
 85 44.5 0.0 46.0
 151 84.6 0.0 82.2#



#10
 1,1-Dichloroethene
 Concen: 20.364 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 96 Resp: 123447
 Ion Ratio Lower Upper
 96 100
 61 140.9 133.0 199.6
 98 64.1 52.6 78.8

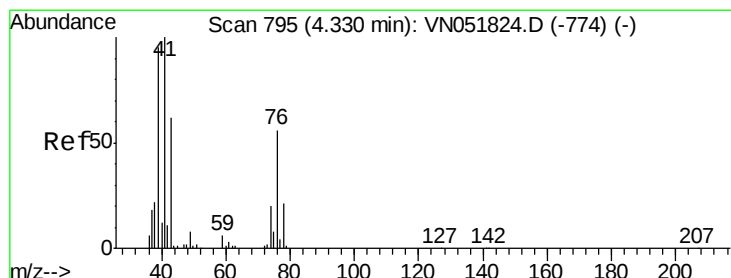
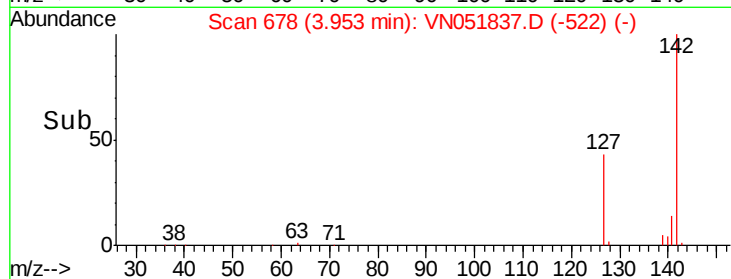
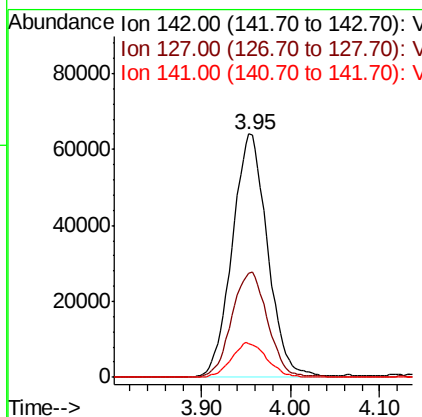
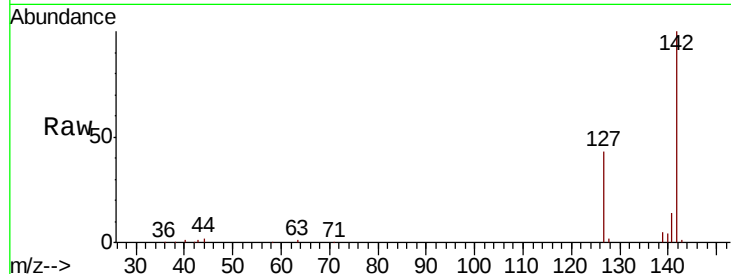




#11
Methvl Iodide
Concen: 19.980 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

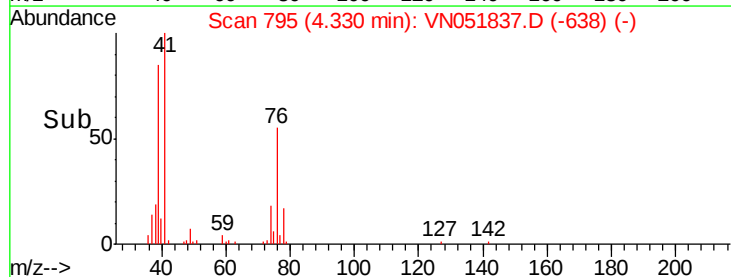
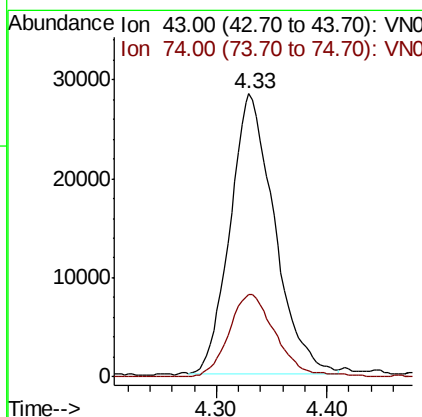
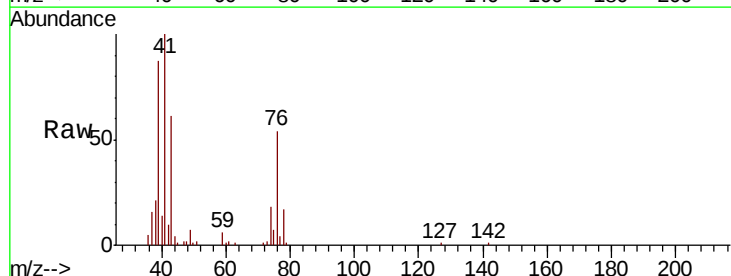
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

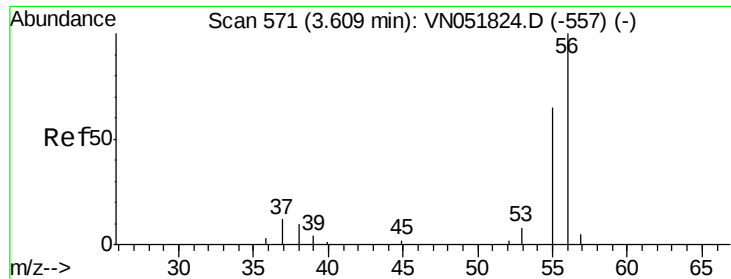
Tot Ion:142 Resp: 176076
Ion Ratio Lower Upper
142 100
127 42.5 19.7 59.0
141 13.8 6.3 18.9



#12
Methyl Acetate
Concen: 20.816 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 43 Resp: 78361
Ion Ratio Lower Upper
43 100
74 29.2 21.8 32.6





#13

Acrolein

Concen: 96.274 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

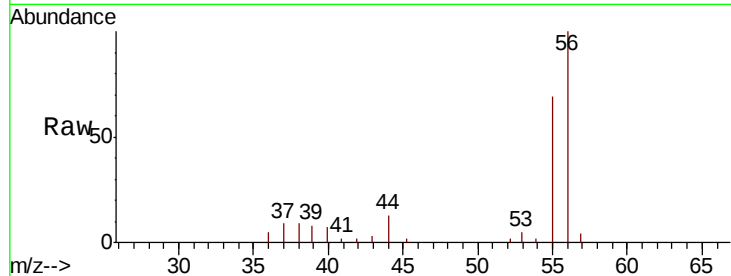
VSTDCCC050EC

Tot Ion: 56 Resp: 23878

Ion Ratio Lower Upper

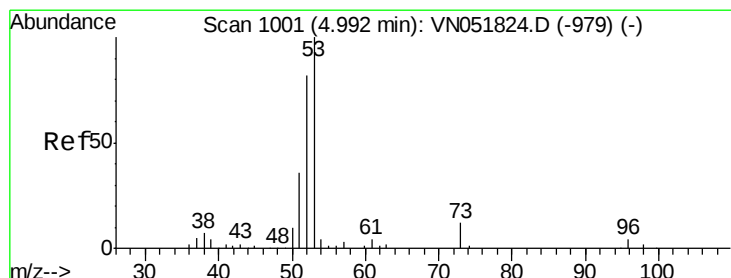
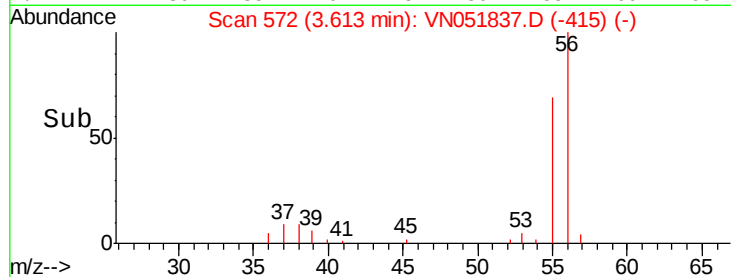
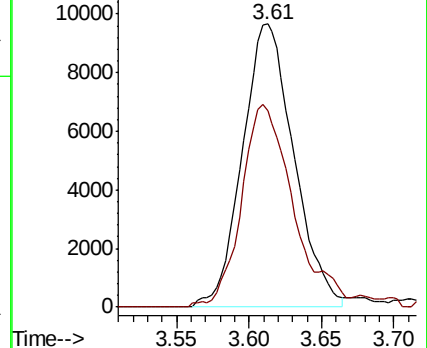
56 100

55 64.0 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 102.695 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

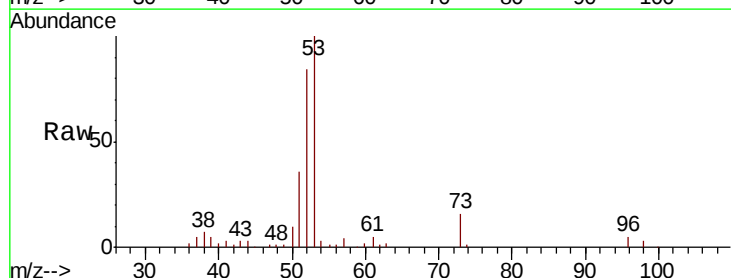
Tgt Ion: 53 Resp: 172780

Ion Ratio Lower Upper

53 100

52 81.5 18.3 54.8#

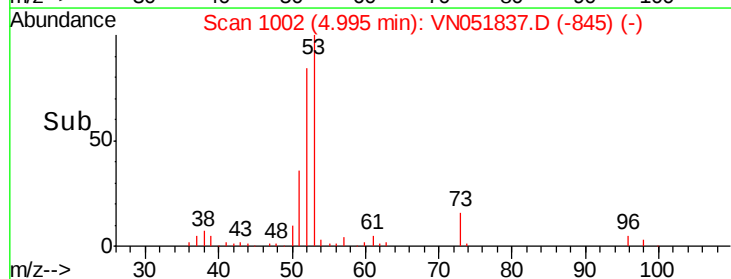
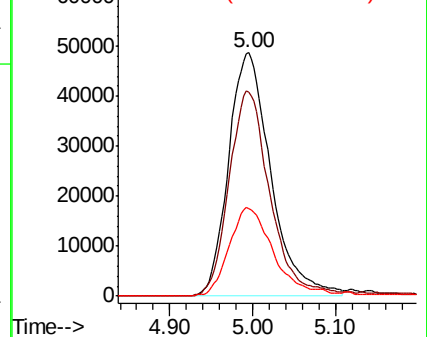
51 37.3 19.7 59.1

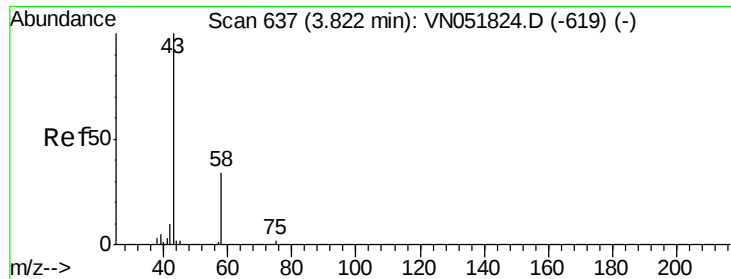


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 98.953 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

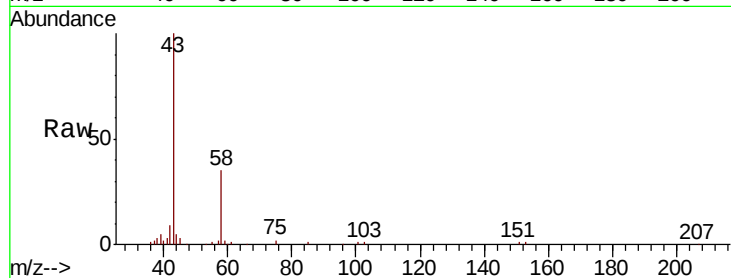
VSTDCCC050EC

Tot Ion: 58 Resp: 41155

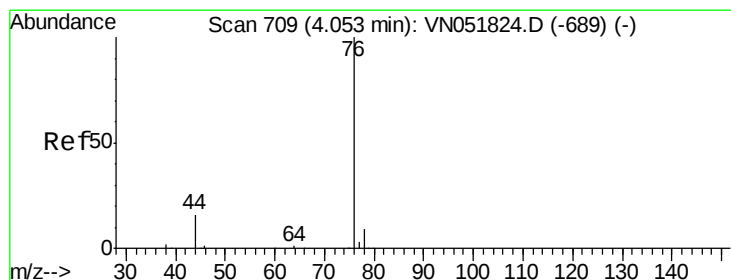
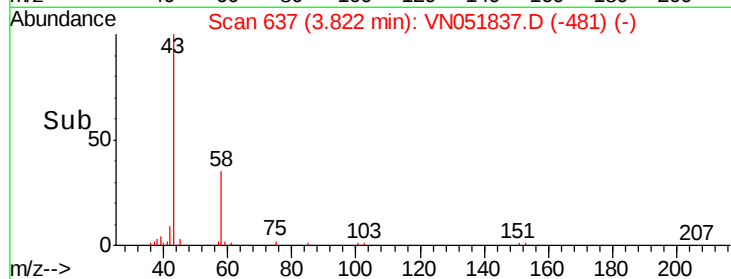
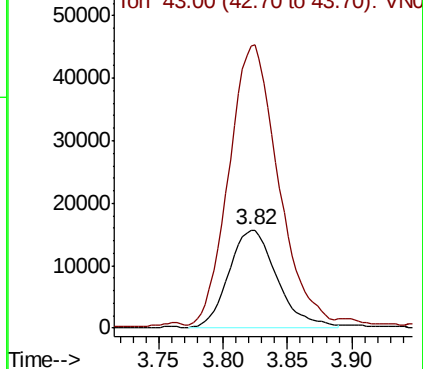
Ion Ratio Lower Upper

58 100

43 284.8 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN051824.D (-619) (-)



#16

Carbon Disulfide

Concen: 18.793 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051837.D

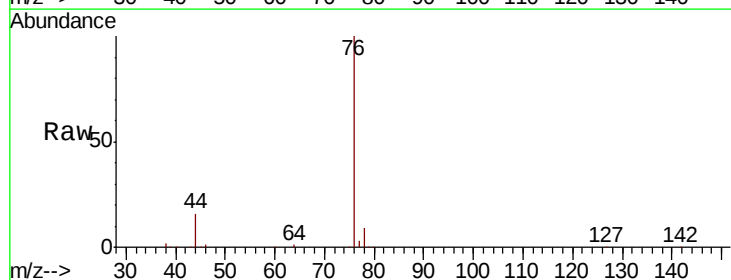
Acq: 12 Oct 2018 17:04

Tgt Ion: 76 Resp: 299198

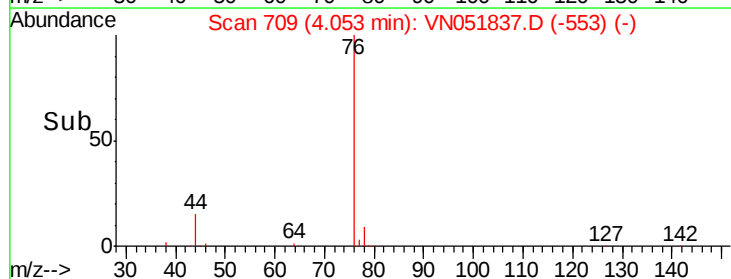
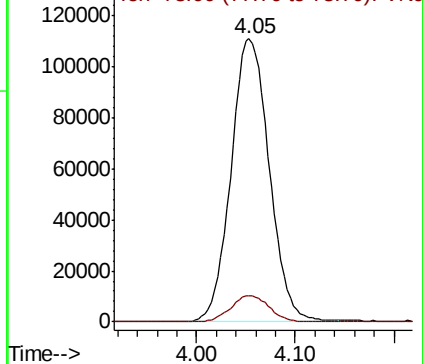
Ion Ratio Lower Upper

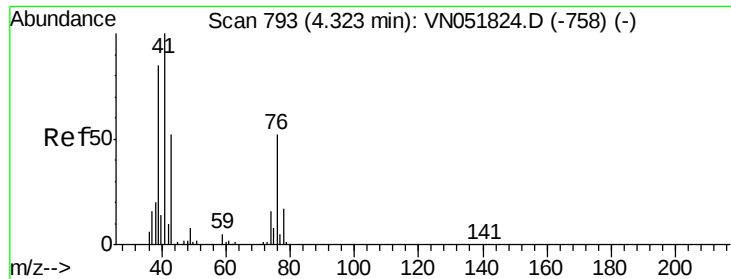
76 100

78 9.1 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)

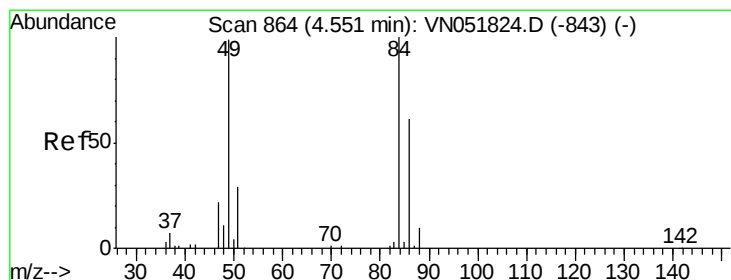
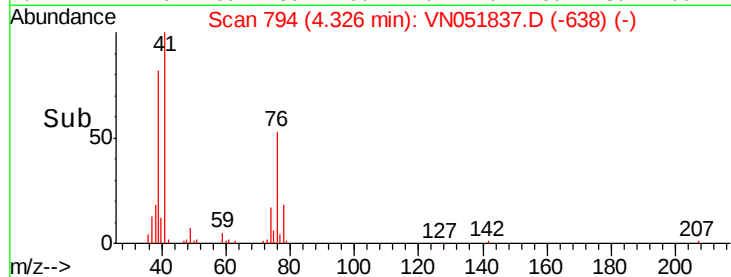
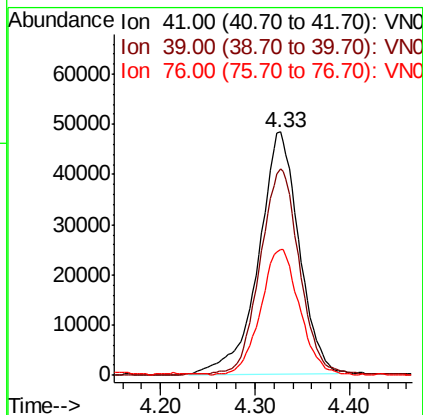
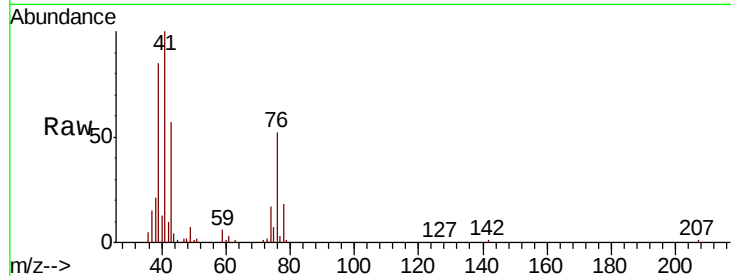




#17
Allvl chloride
Concen: 19.892 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

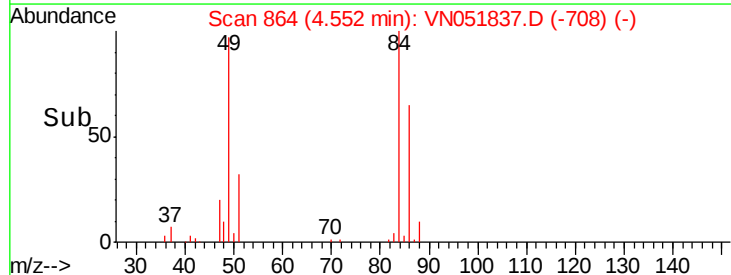
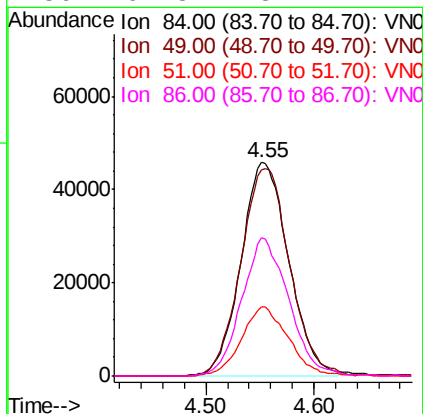
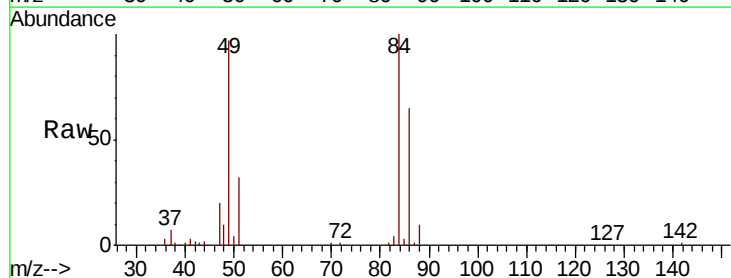
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

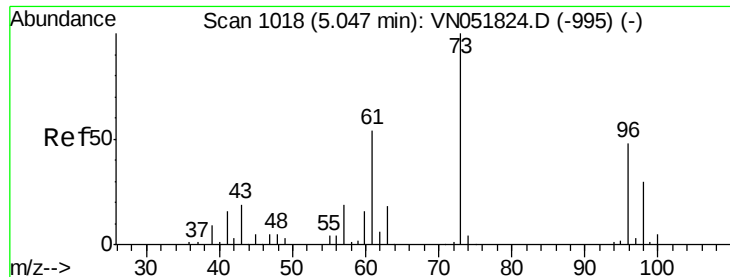
Tot Ion: 41 Resp: 143166
Ion Ratio Lower Upper
41 100
39 84.5 32.6 97.8
76 51.3 20.2 60.5



#18
Methylene Chloride
Concen: 20.752 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 84 Resp: 140659
Ion Ratio Lower Upper
84 100
49 96.3 91.6 137.4
51 32.2 29.8 44.6
86 64.8 48.2 72.4

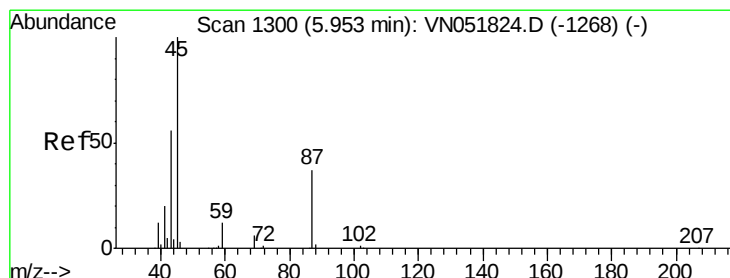
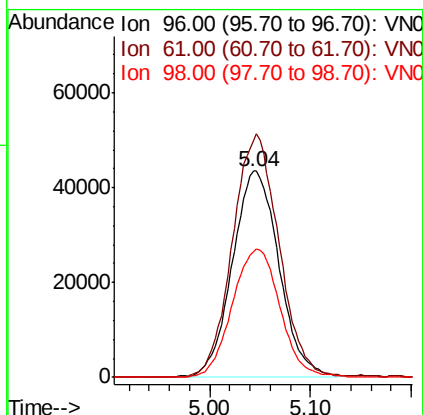
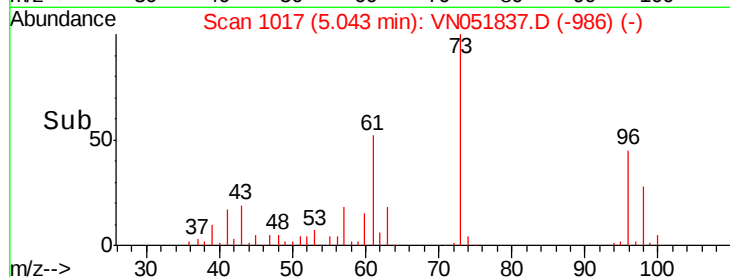
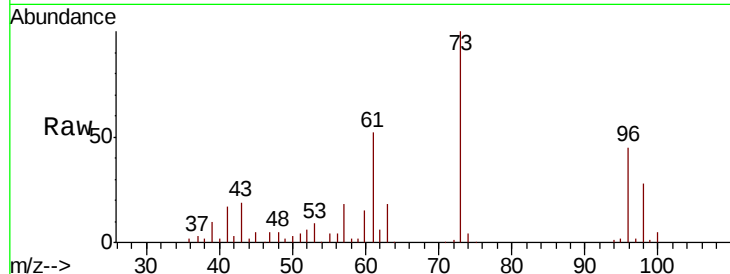




#19
trans-1,2-Dichloroethene
Concen: 20.170 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

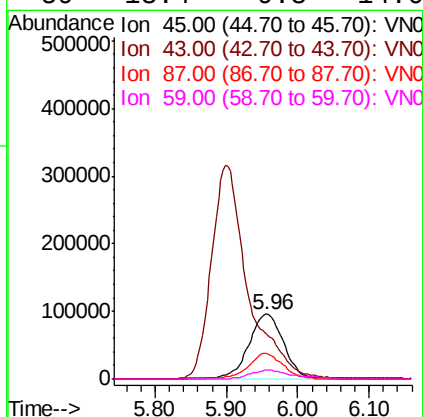
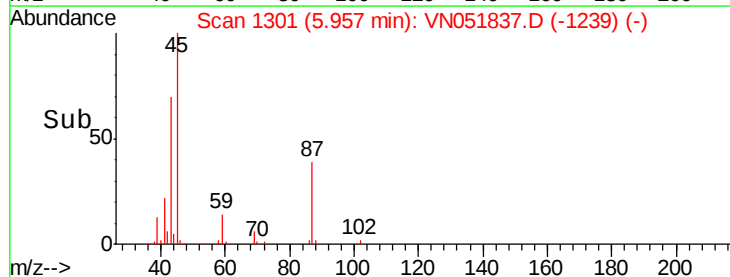
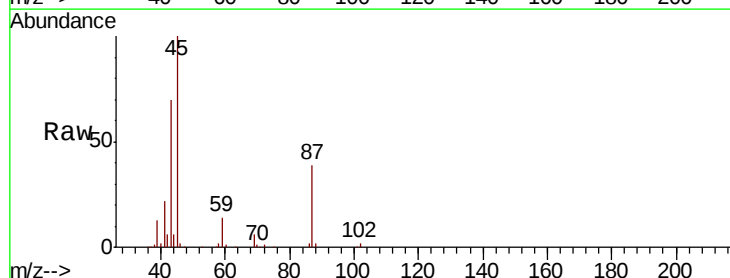
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

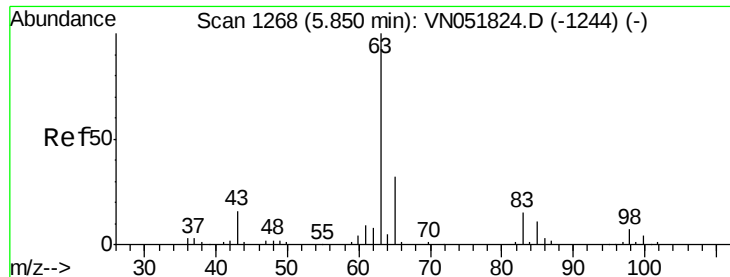
Tot Ion: 96 Resp: 139616
Ion Ratio Lower Upper
96 100
61 114.9 112.3 168.5
98 61.0 47.1 70.7



#20
Diisopropyl ether
Concen: 20.353 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 45 Resp: 326236
Ion Ratio Lower Upper
45 100
43 67.4 62.1 93.1
87 38.2 19.9 29.9#
59 13.4 9.8 14.6

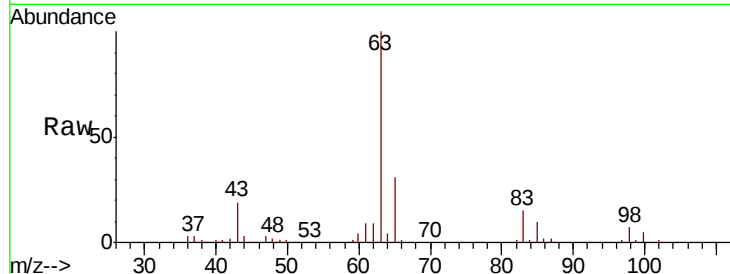




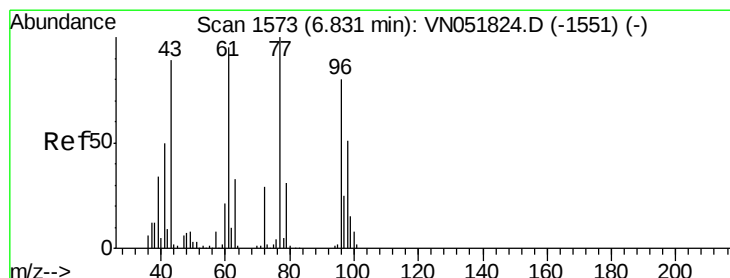
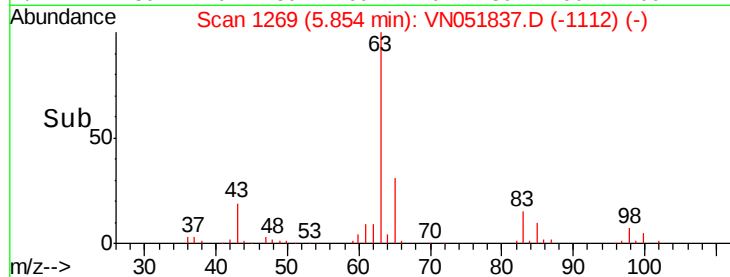
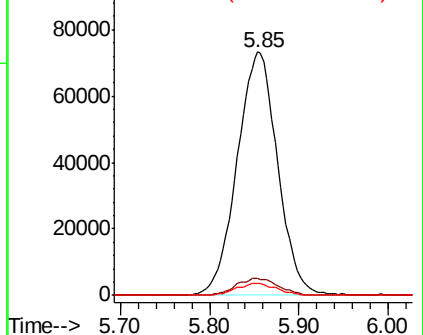
#21
 1,1-Dichloroethane
 Concen: 20.568 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
63	100		
98	7.0	4.1	12.3
100	4.9	1.6	4.7#

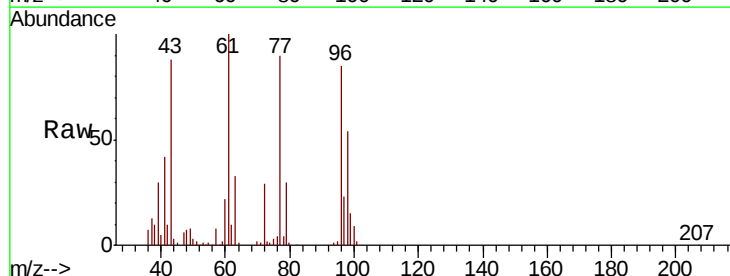


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

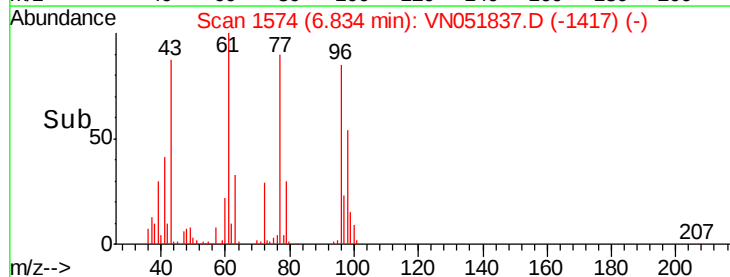
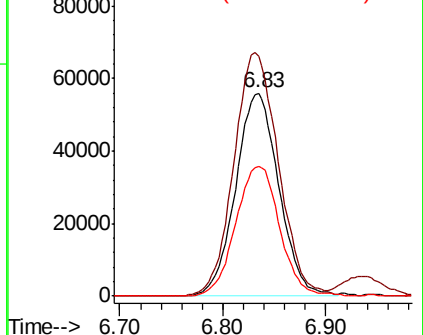


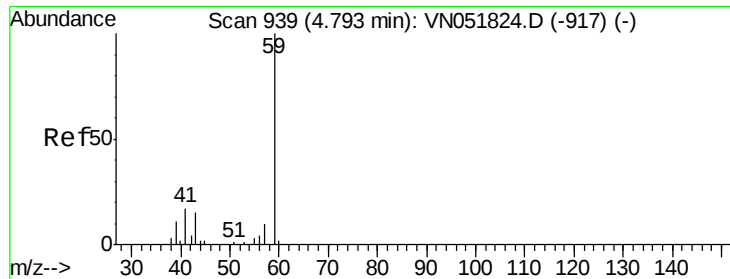
#22
 cis-1,2-Dichloroethene
 Concen: 20.028 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.8	124.5	186.7#
98	65.1	51.9	77.9



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





#23

tert-Butyl Alcohol

Concen: 97.557 ug/l

RT: 4.80 min Scan# 940

Delta R.T. 0.01 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

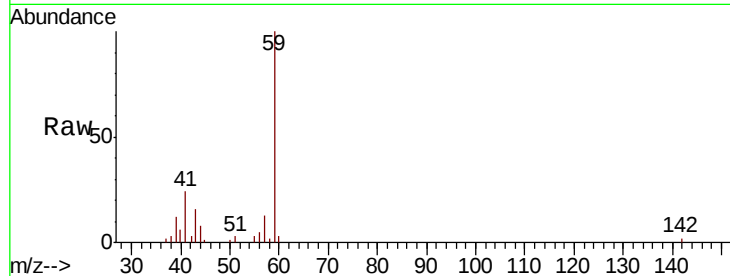
VSTDCCC050EC

Tot Ion: 59 Resp: 43228

Ion Ratio Lower Upper

59 100

52 0.1 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN051824.D (-917) (-)

Ion 52.00 (51.70 to 52.70): VN051824.D (-917) (-)

4.80

15000

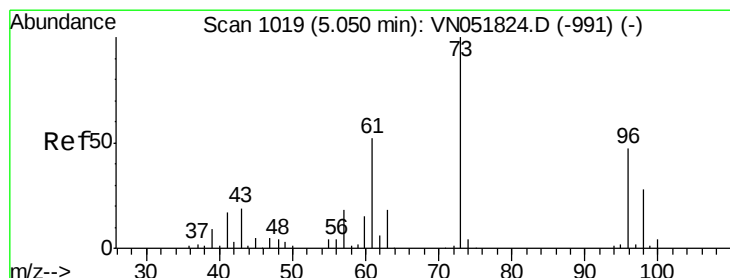
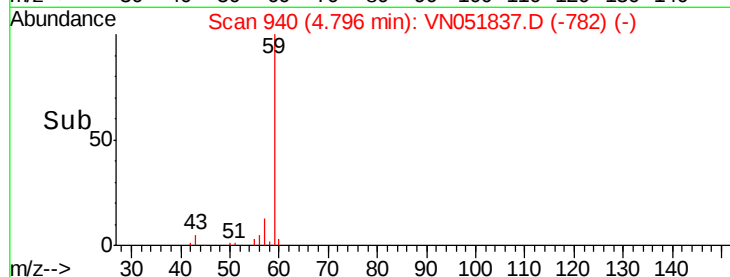
10000

5000

0

4.70 4.80 4.90

Time-->



#24

Methyl tert-Butyl Ether

Concen: 20.928 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN051837.D

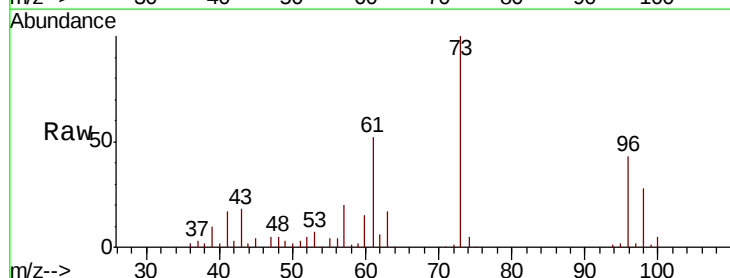
Acq: 12 Oct 2018 17:04

Tgt Ion: 73 Resp: 365521

Ion Ratio Lower Upper

73 100

43 17.9 5.4 8.0#



Abundance Ion 73.00 (72.70 to 73.70): VN051824.D (-991) (-)

Ion 43.00 (42.70 to 43.70): VN051824.D (-991) (-)

5.05

100000

80000

60000

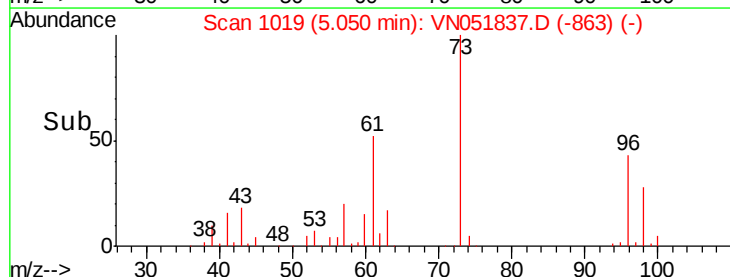
40000

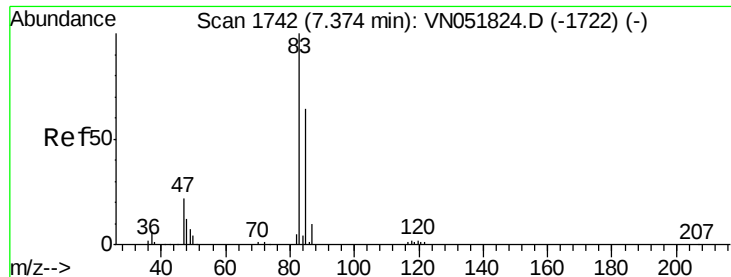
20000

0

4.90 5.00 5.10 5.20

Time-->

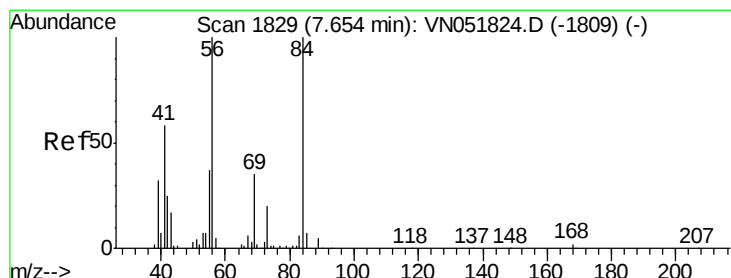
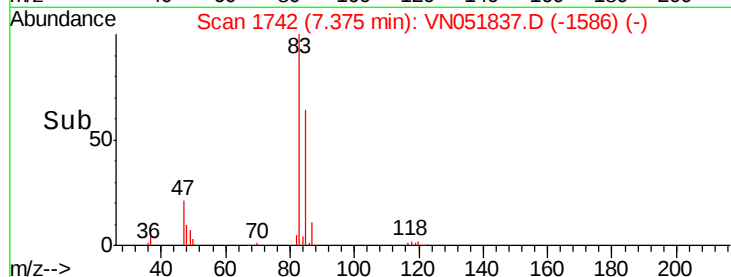
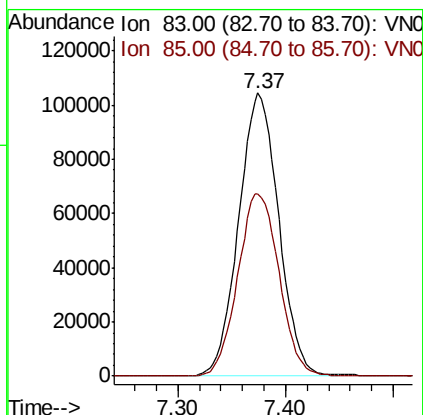
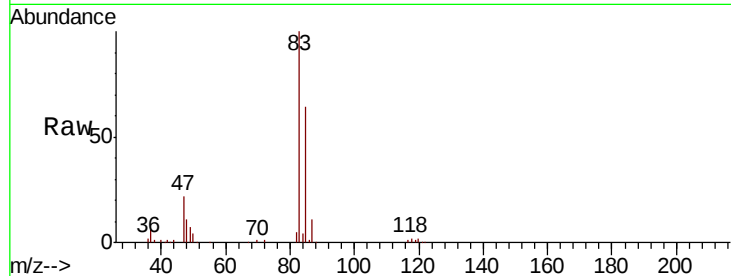




#25
Chloroform
Concen: 20.300 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

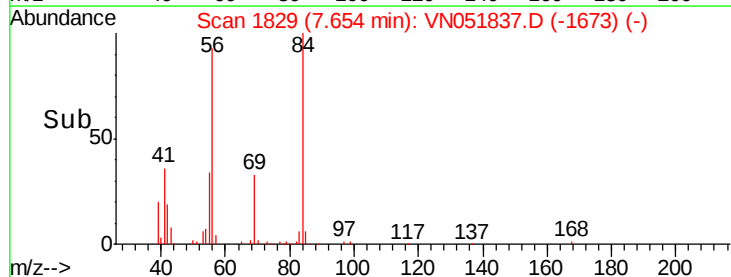
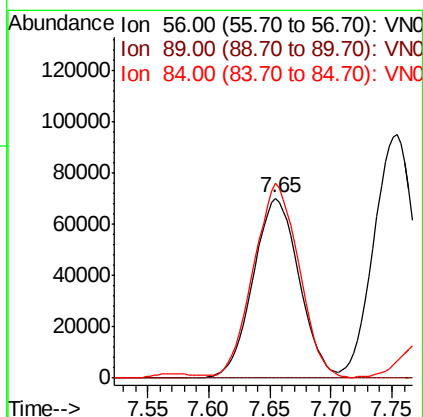
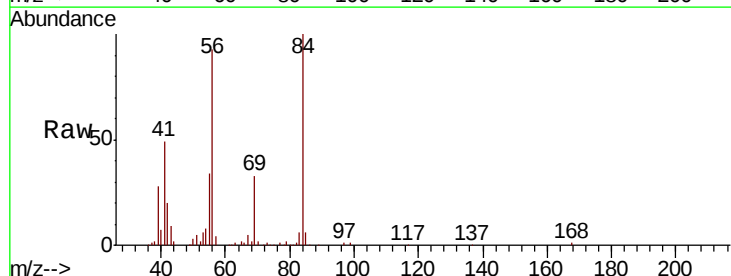
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

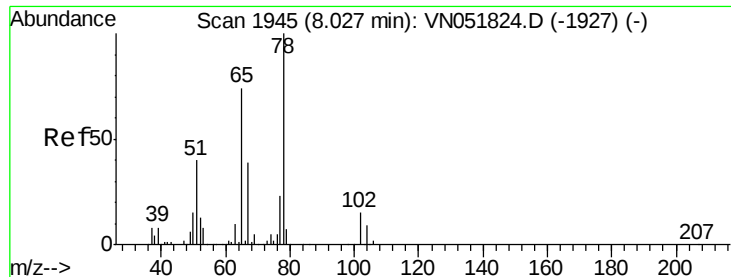
Tot Ion: 83 Resp: 269741
Ion Ratio Lower Upper
83 100
85 64.3 54.6 82.0



#26
Cyclohexane
Concen: 19.415 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 56 Resp: 184356
Ion Ratio Lower Upper
56 100
89 0.2 1.5 2.3#
84 106.0 64.2 96.4#





#27

1,2-Dichloroethane-d4

Concen: 19.415 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

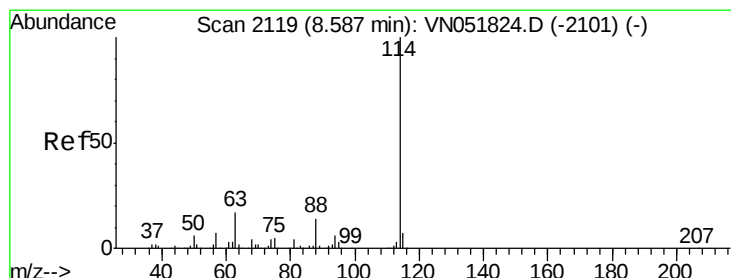
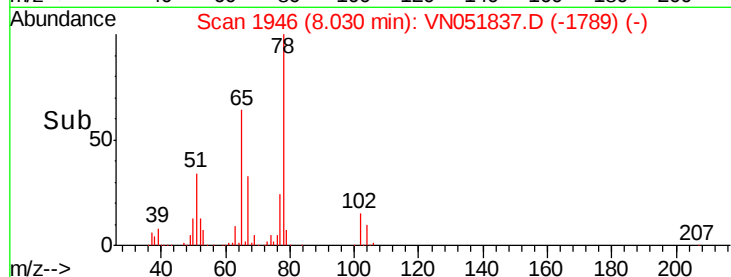
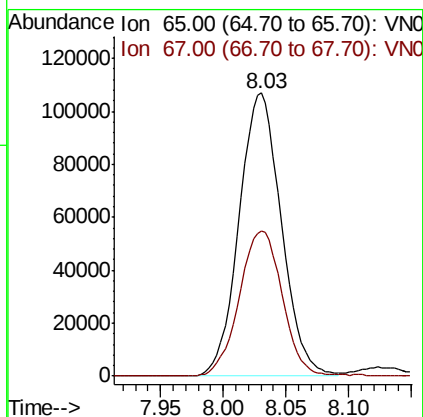
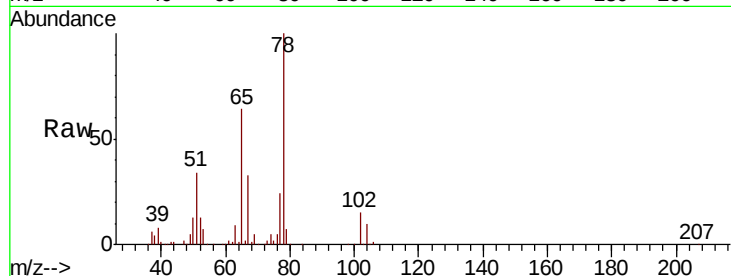
VSTDCCC050EC

Tot Ion: 65 Resp: 250562

Ion Ratio Lower Upper

65 100

67 52.2 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: VN051837.D

Acq: 12 Oct 2018 17:04

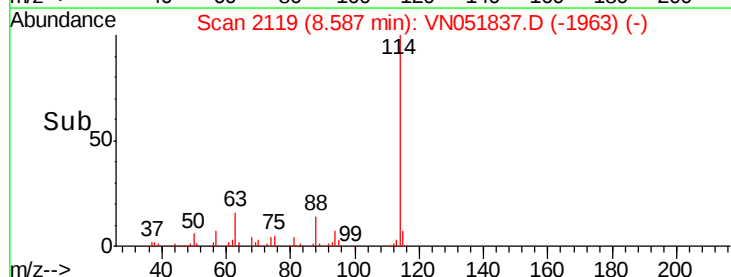
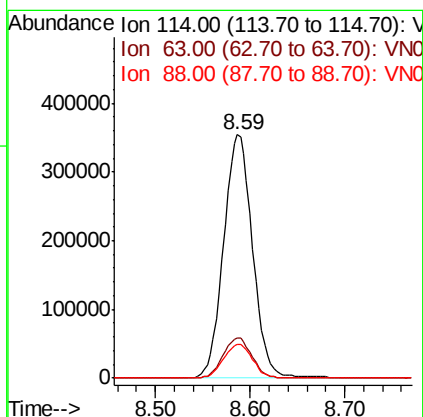
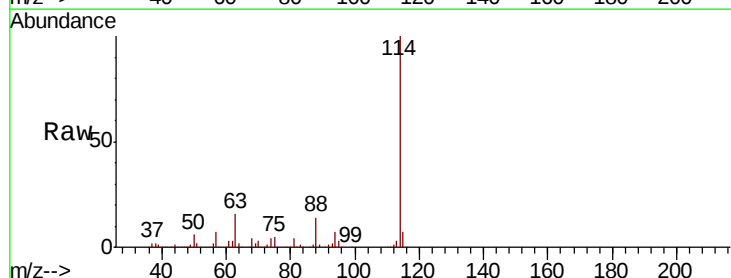
Tgt Ion: 114 Resp: 751183

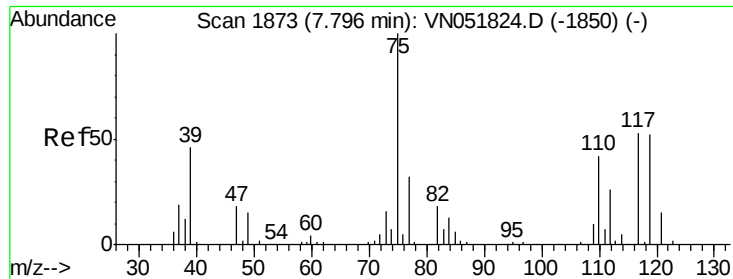
Ion Ratio Lower Upper

114 100

63 16.5 16.2 24.2

88 14.0 12.2 18.4

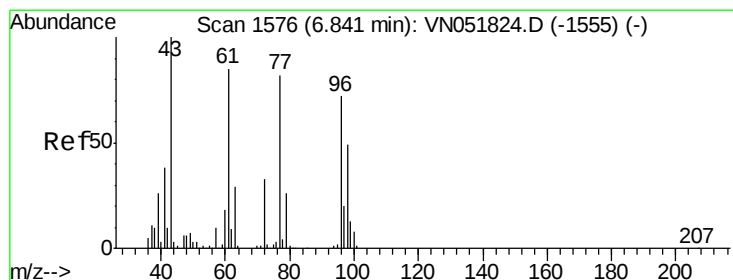
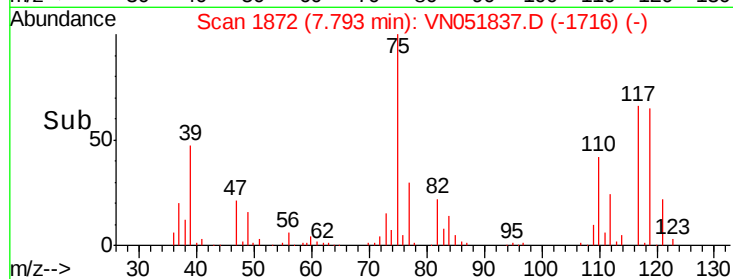
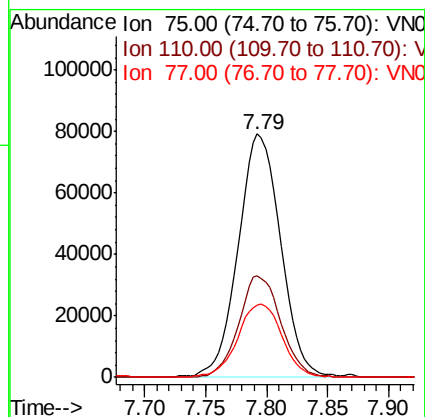
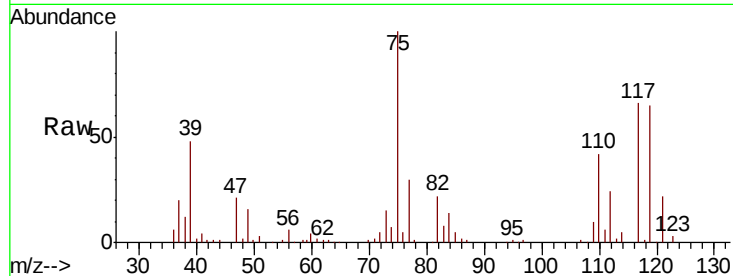




#29
 1,1-Dichloropropene
 Concen: 19.577 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

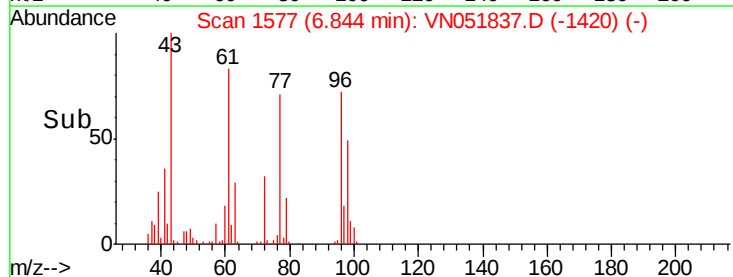
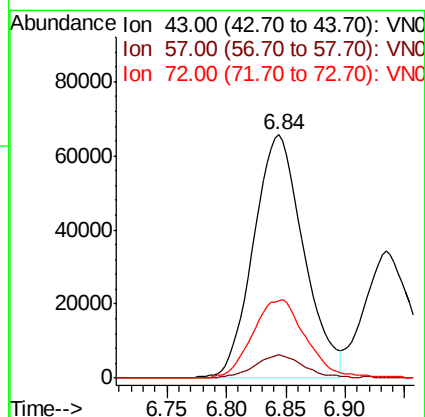
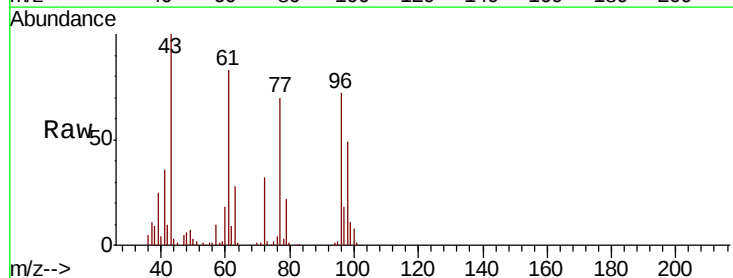
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

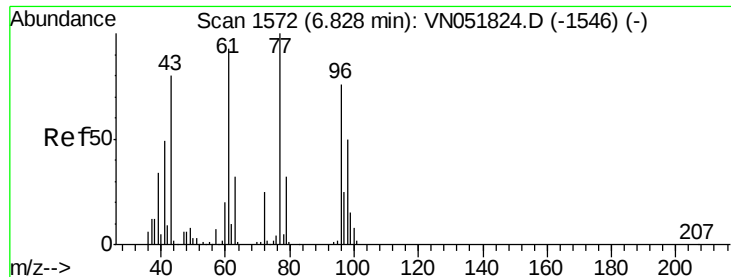
Tot Ion	Ratio	Lower	Upper
75	100		
110	41.6	0.0	70.8
77	31.7	0.0	61.6



#30
 2-Butanone
 Concen: 94.204 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
57	9.4	4.5	6.7#
72	34.4	21.5	32.3#





#31

2,2-Dichloropropane

Concen: 17.774 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

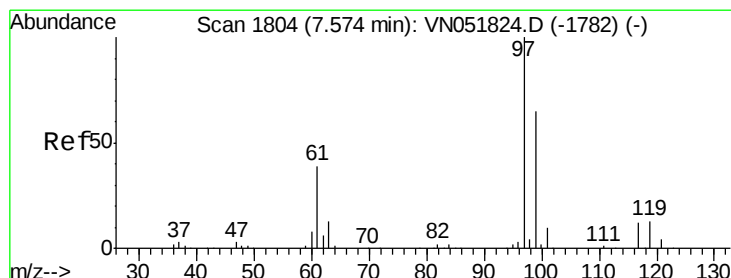
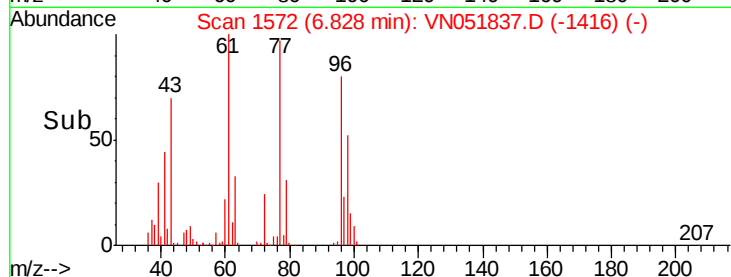
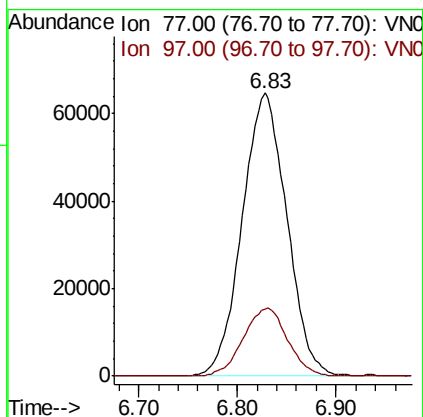
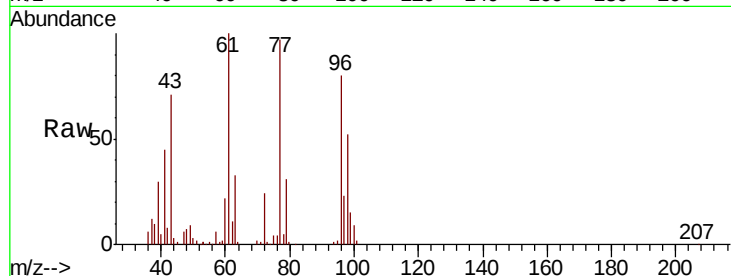
VSTDCCC050EC

Tot Ion: 77 Resp: 202464

Ion Ratio Lower Upper

77 100

97 23.8 12.0 18.0#



#32

1,1,1-Trichloroethane

Concen: 19.814 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

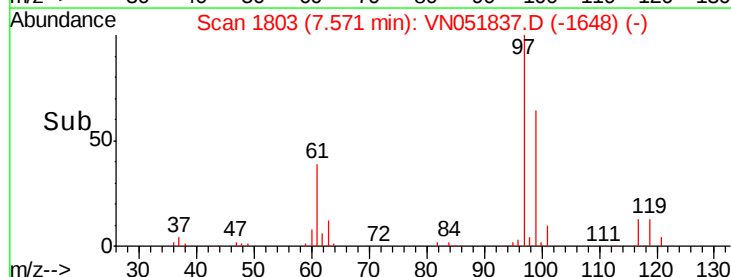
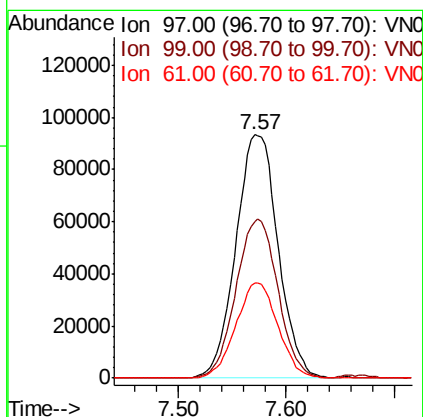
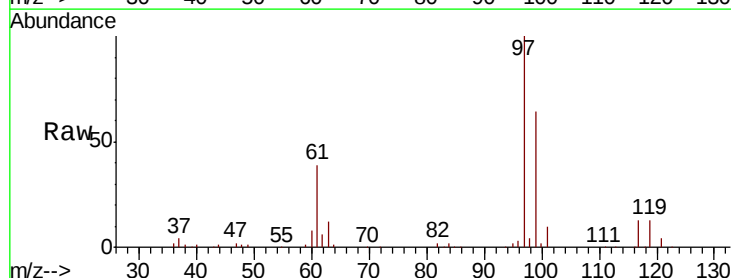
Tgt Ion: 97 Resp: 254356

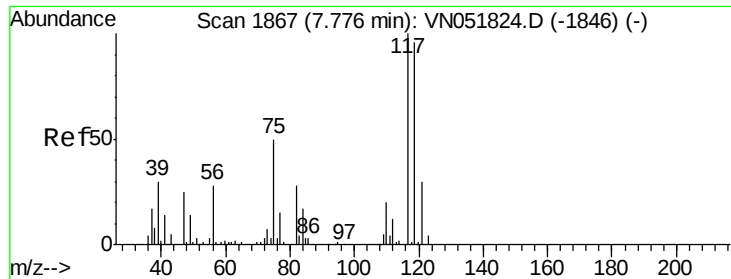
Ion Ratio Lower Upper

97 100

99 64.8 51.6 77.4

61 38.8 37.4 56.0

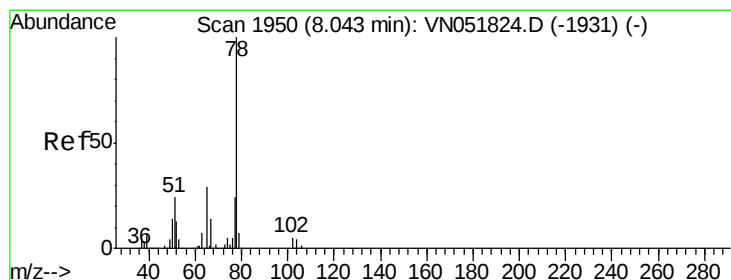
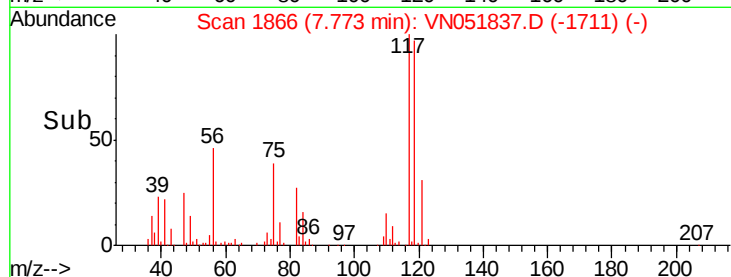
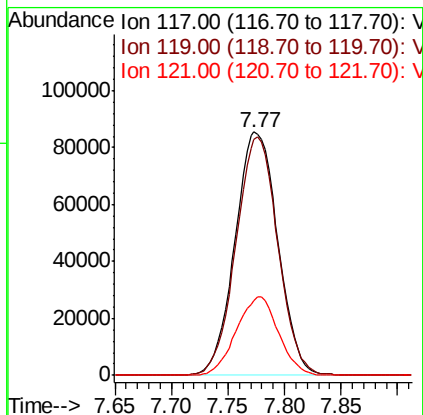
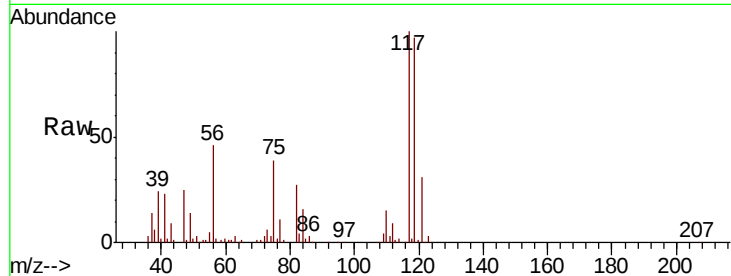




#33
Carbon Tetrachloride
Concen: 19.360 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

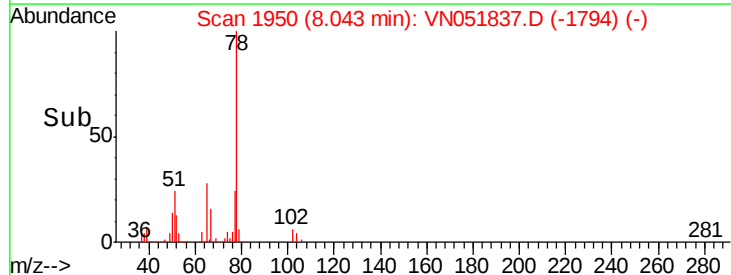
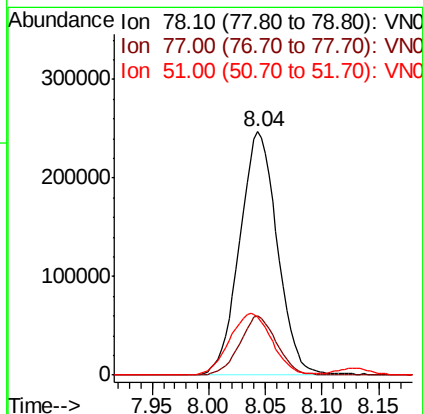
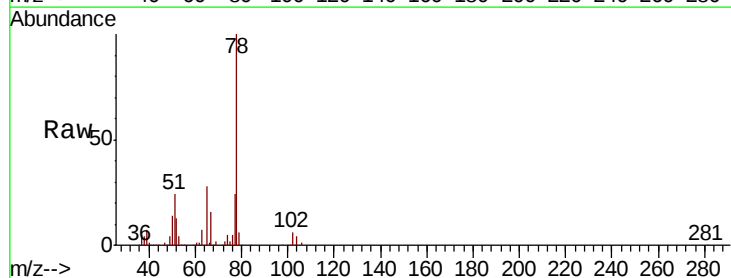
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

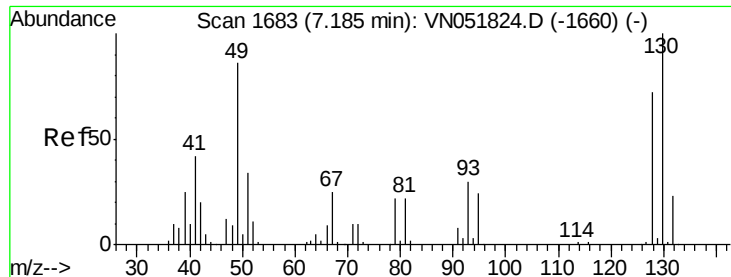
Tot Ion:117 Resp: 224858
Ion Ratio Lower Upper
117 100
119 96.7 85.1 127.7
121 30.9 24.2 36.2



#34
Benzene
Concen: 20.028 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 78 Resp: 573631
Ion Ratio Lower Upper
78 100
77 24.1 18.8 28.2
51 23.7 46.2 69.4#

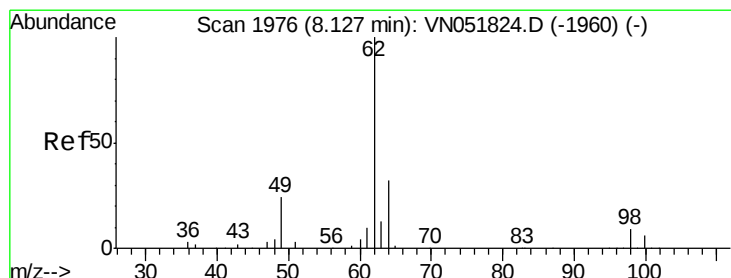
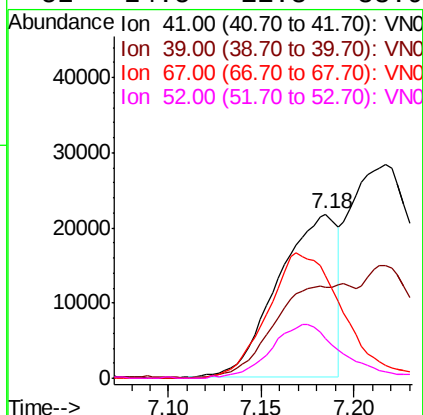
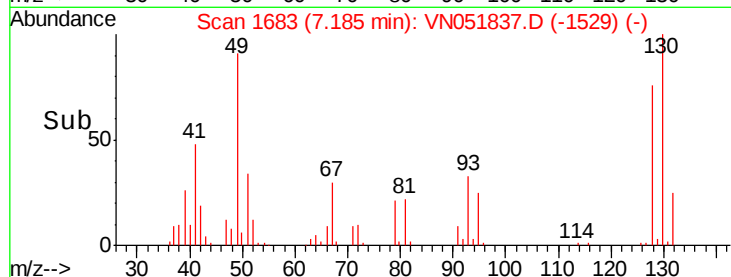
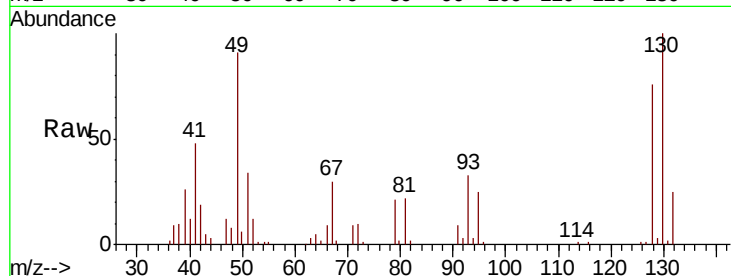




#35
Methacrylonitrile
Concen: 18.076 ug/l
RT: 7.18 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

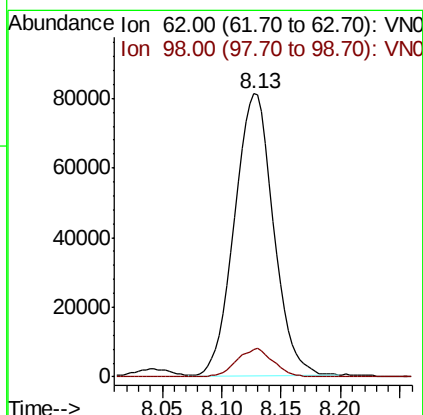
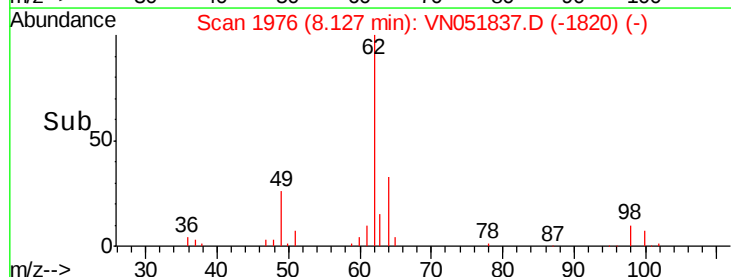
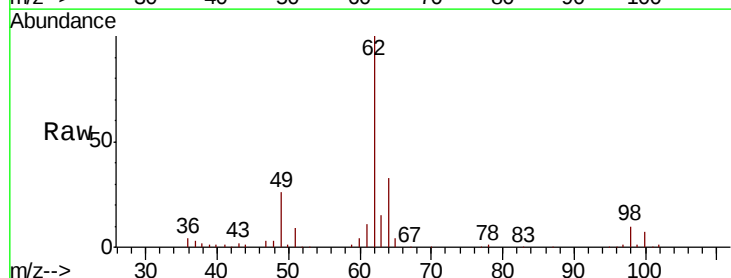
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

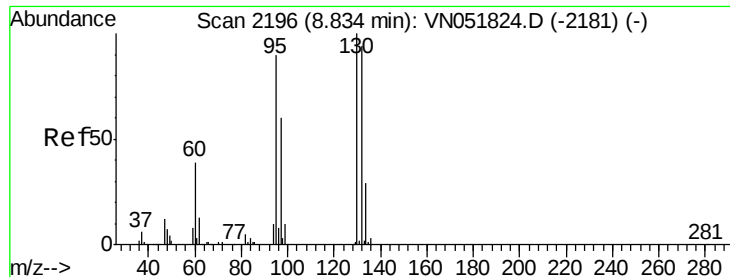
Tot Ion: 41 Resp: 48063
Ion Ratio Lower Upper
41 100
39 55.5 22.6 67.7
67 63.0 28.9 86.8
52 24.5 11.3 33.9



#36
1,2-Dichloroethane
Concen: 20.036 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 62 Resp: 183881
Ion Ratio Lower Upper
62 100
98 9.5 6.9 10.3





#37

Trichloroethene

Concen: 19.812 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

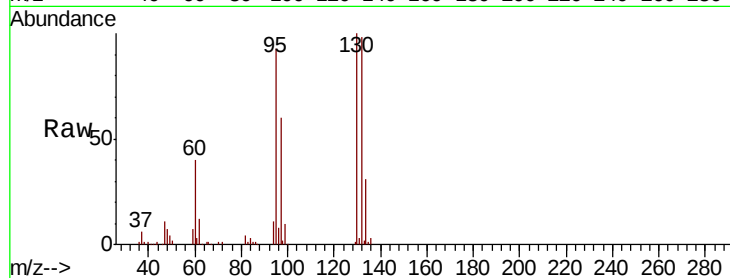
VSTDCCC050EC

Tot Ion:130 Resp: 176150

Ion Ratio Lower Upper

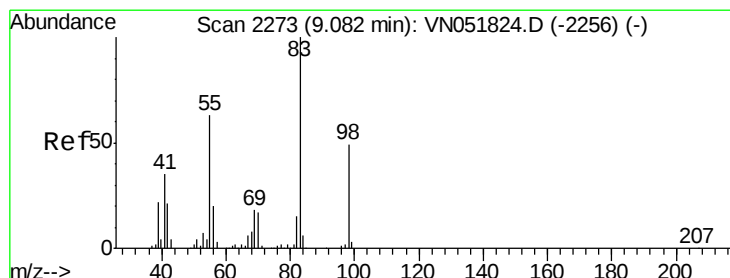
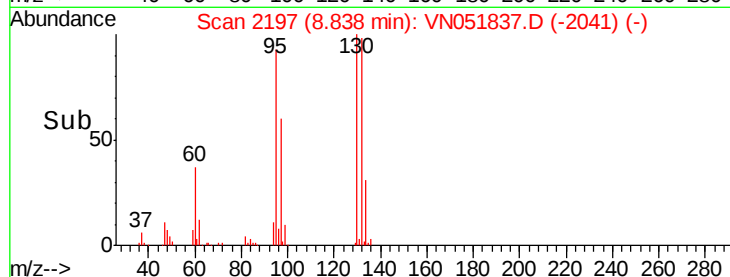
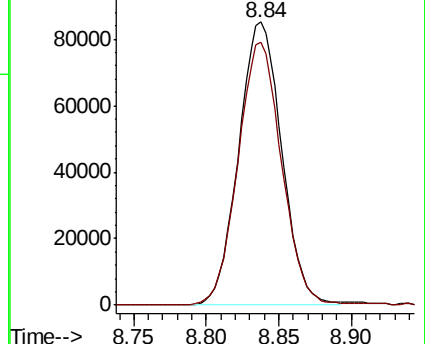
130 100

95 92.5 76.4 114.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 18.722 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

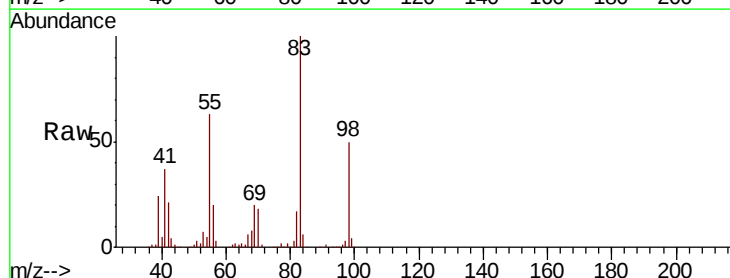
Tgt Ion: 83 Resp: 232507

Ion Ratio Lower Upper

83 100

55 62.4 43.0 129.2

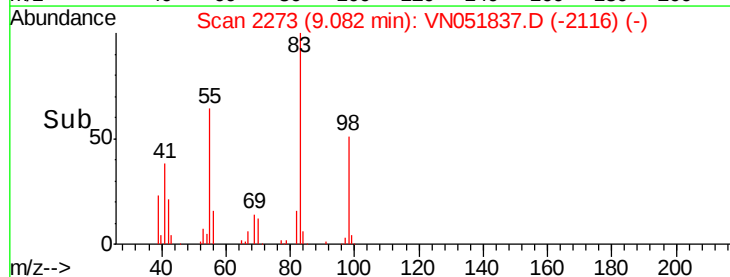
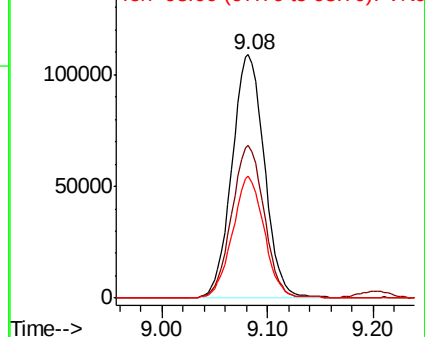
98 48.9 21.3 63.7

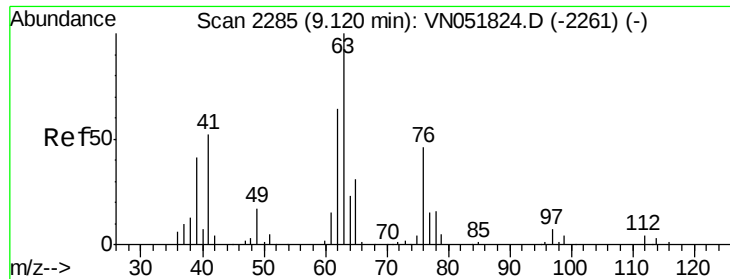


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 19.912 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

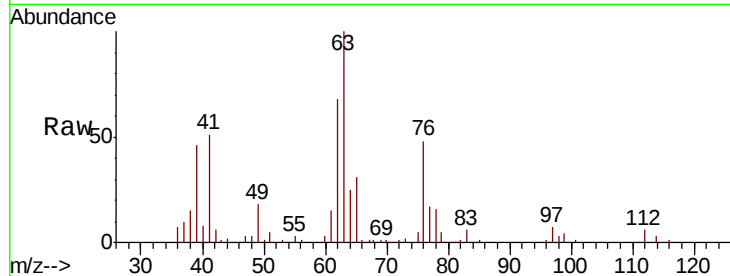
VSTDCCC050EC

Tot Ion: 63 Resp: 134309

Ion Ratio Lower Upper

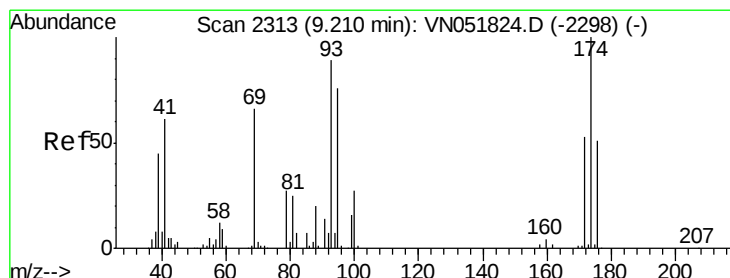
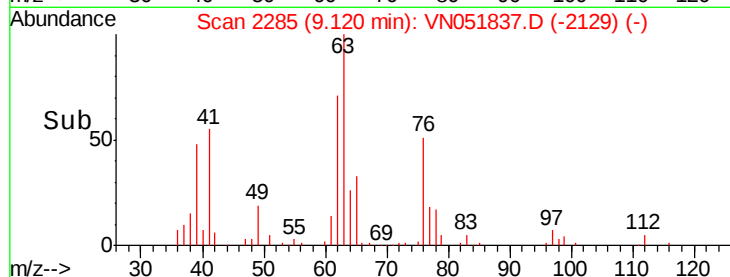
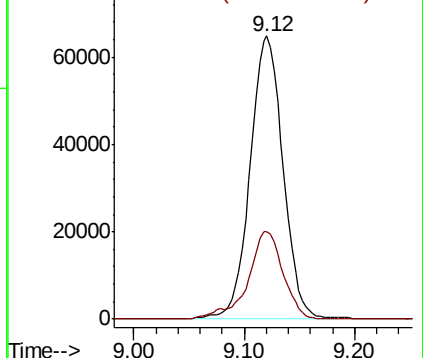
63 100

65 31.2 23.2 34.8



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 19.531 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

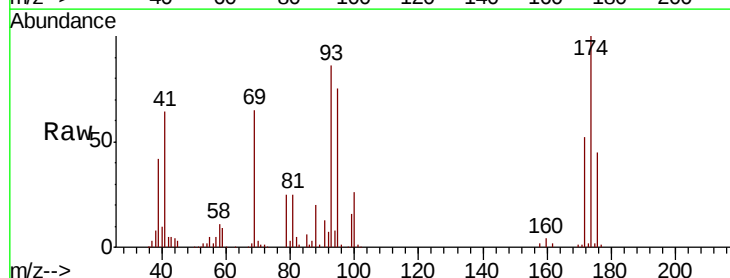
Tgt Ion: 93 Resp: 97776

Ion Ratio Lower Upper

93 100

95 86.4 0.0 162.0

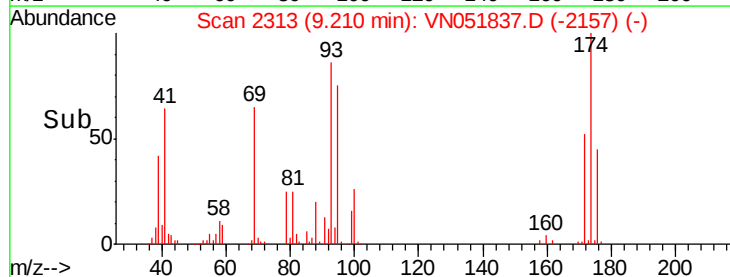
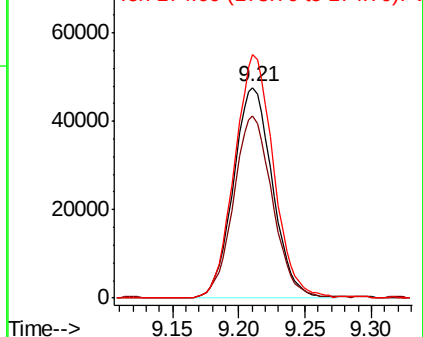
174 115.1 0.0 214.0

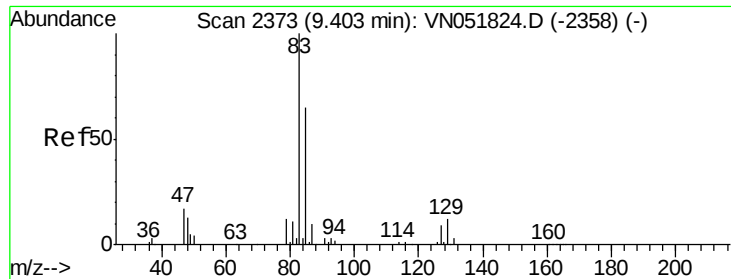


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

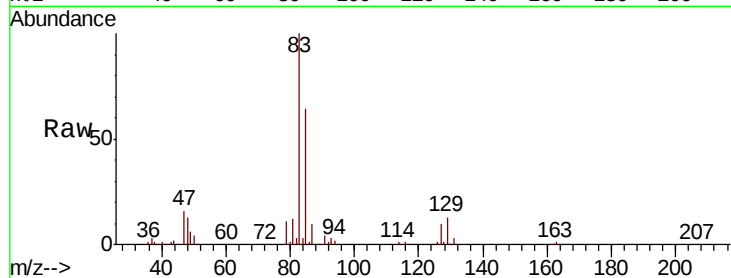




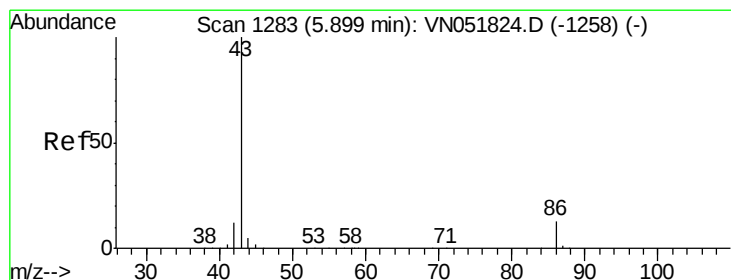
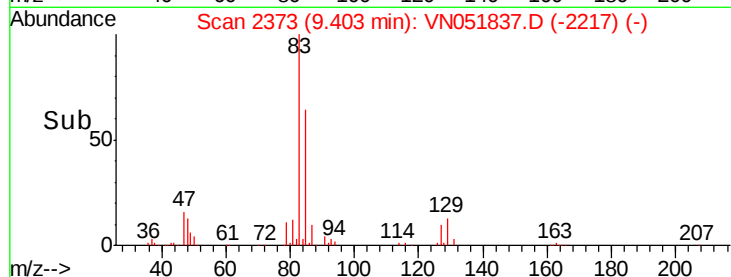
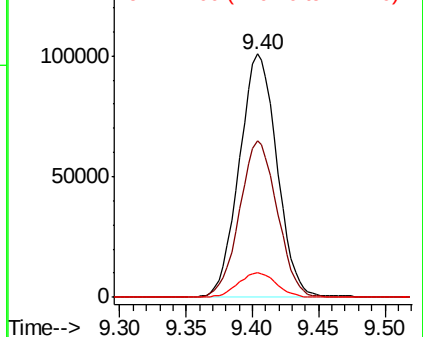
#41
Bromodichloromethane
Concen: 19.288 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion: 83 Resp: 199447
Ion Ratio Lower Upper
83 100
85 64.4 55.7 83.5
127 10.2 8.2 12.4

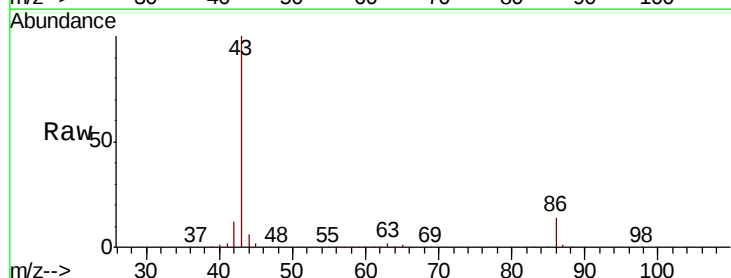


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): V

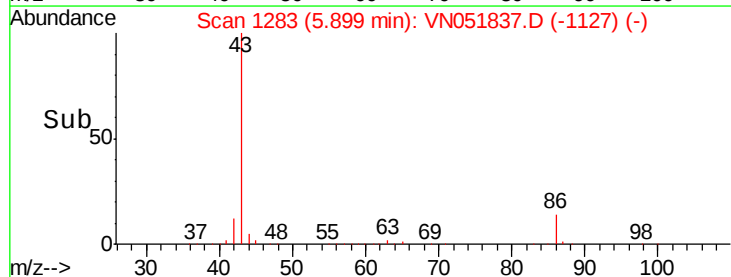
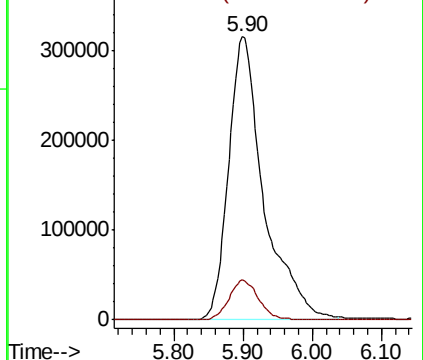


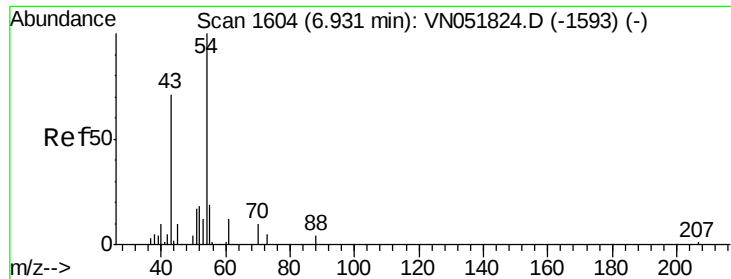
#42
Vinyl Acetate
Concen: 98.280 ug/l
RT: 5.90 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 43 Resp: 1119684
Ion Ratio Lower Upper
43 100
86 11.8 6.5 9.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 86.00 (85.70 to 86.70): VN0

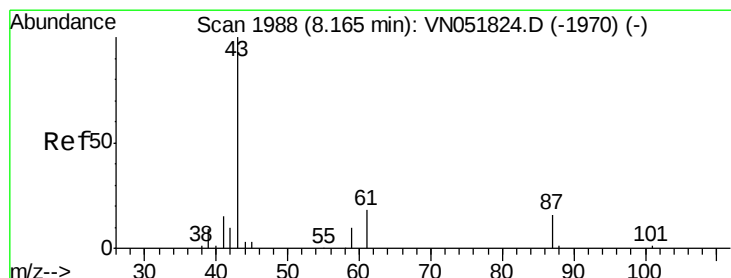
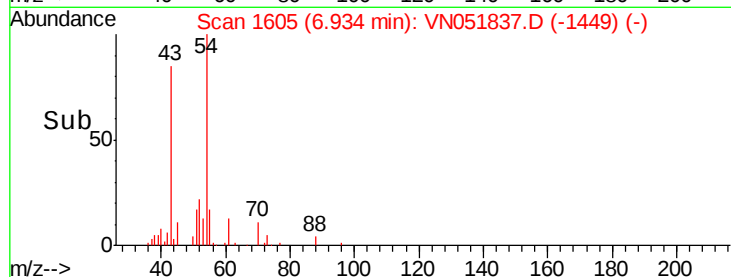
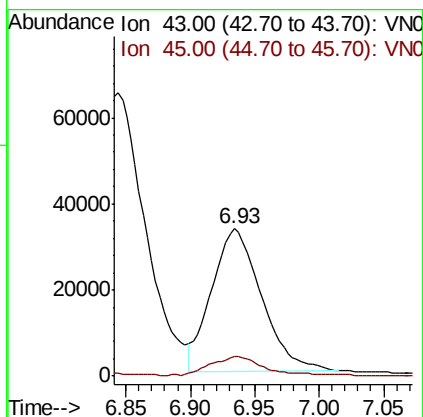
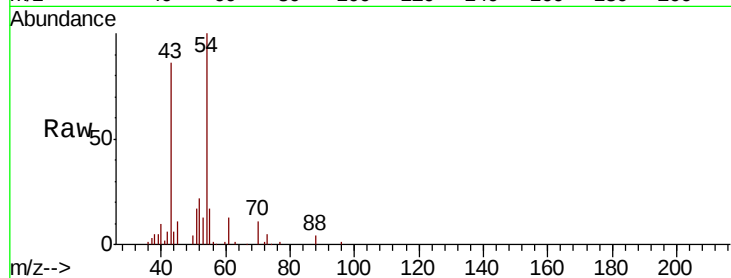




#43
Ethyl Acetate
Concen: 20.498 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

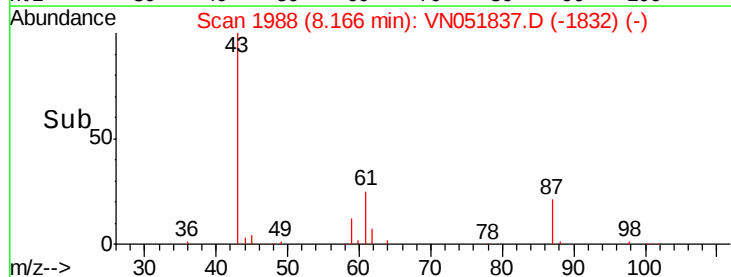
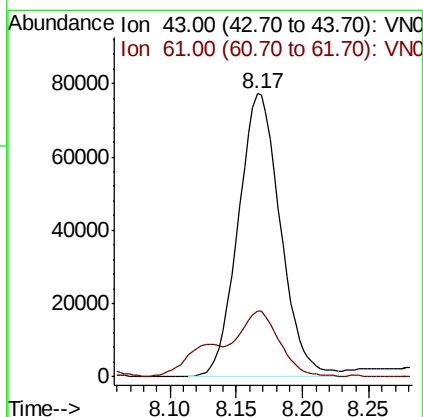
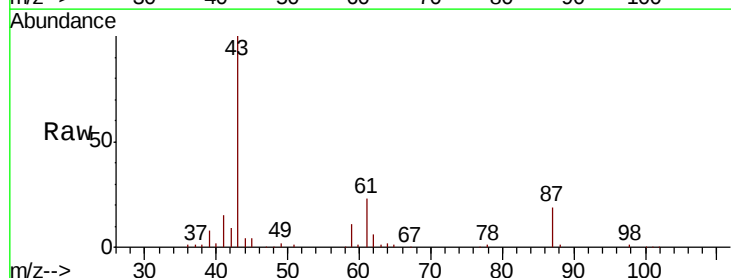
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

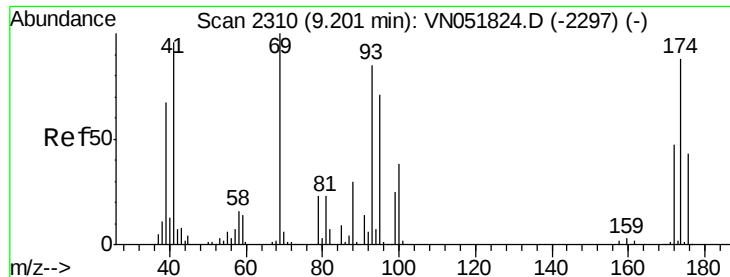
Tot Ion: 43 Resp: 90079
Ion Ratio Lower Upper
43 100
45 12.4 11.0 16.6



#44
Isopropyl Acetate
Concen: 19.370 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 43 Resp: 170024
Ion Ratio Lower Upper
43 100
61 22.4 15.9 23.9

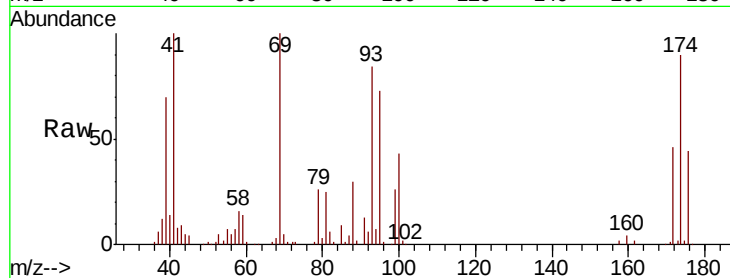




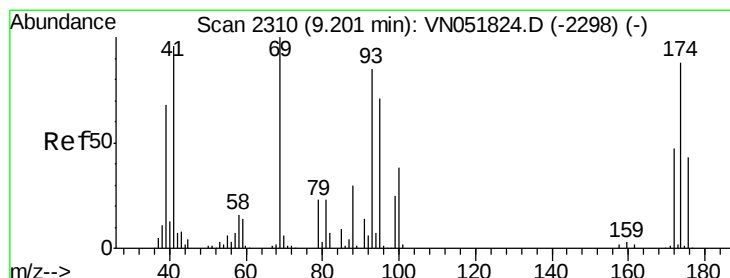
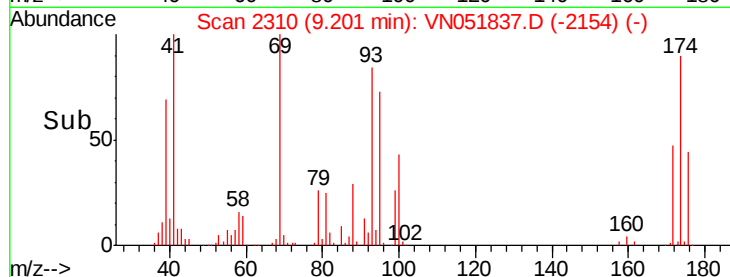
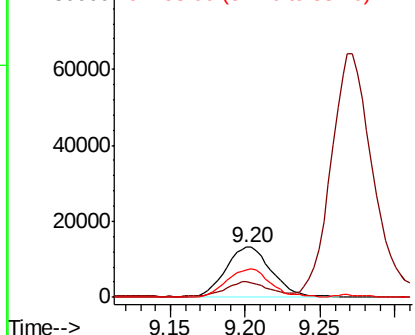
#45
 1,4-Dioxane
 Concen: 405.412 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 88 Resp: 28573
 Ion Ratio Lower Upper
 88 100
 43 24.0 26.2 39.2#
 58 53.2 65.6 98.4#

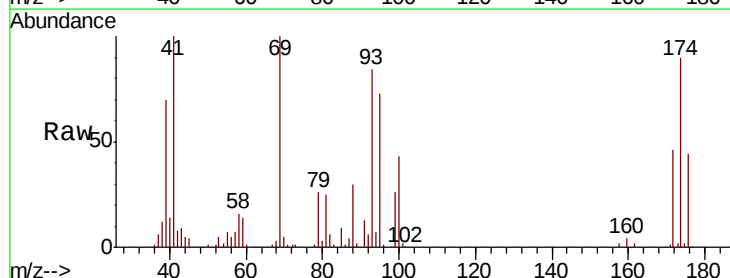


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

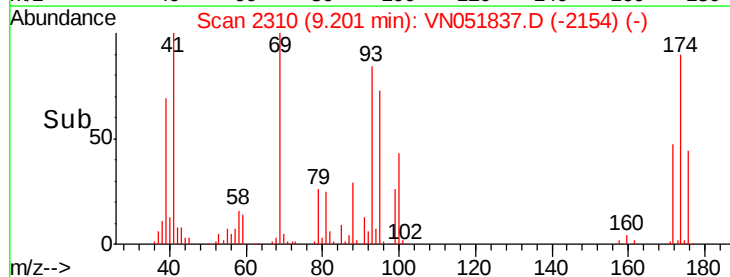
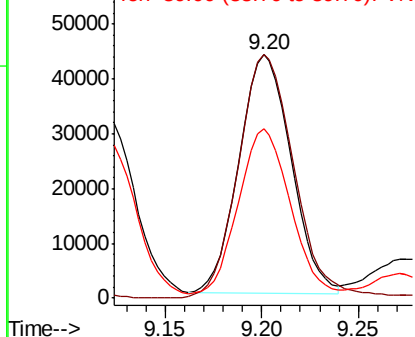


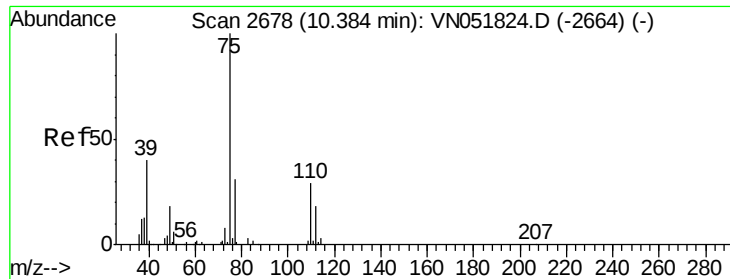
#46
 Methyl methacrylate
 Concen: 20.107 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 41 Resp: 81405
 Ion Ratio Lower Upper
 41 100
 69 101.5 40.7 122.1
 39 69.5 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





#48

t-1,3-Dichloropropene

Concen: 18.522 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

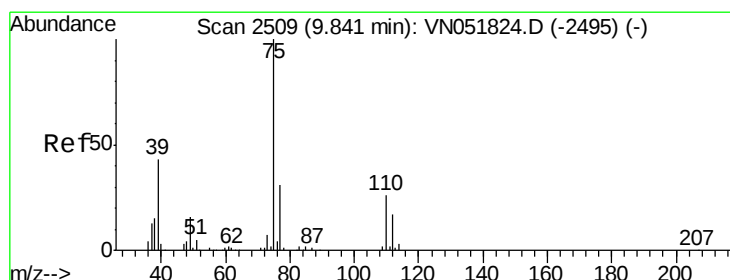
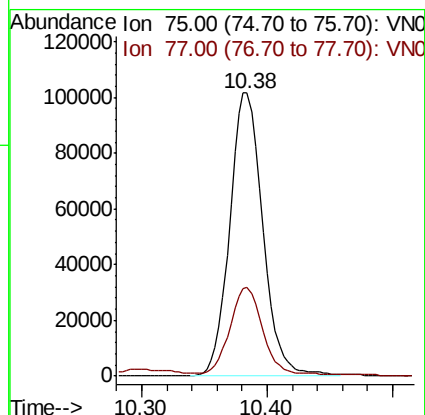
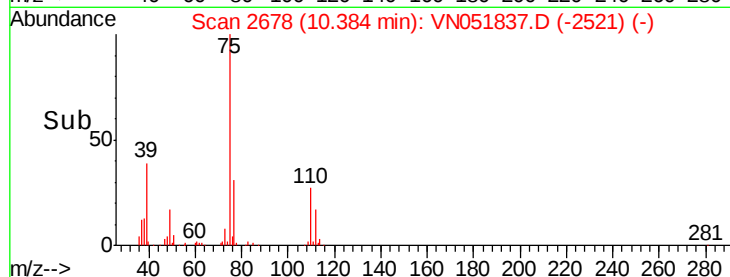
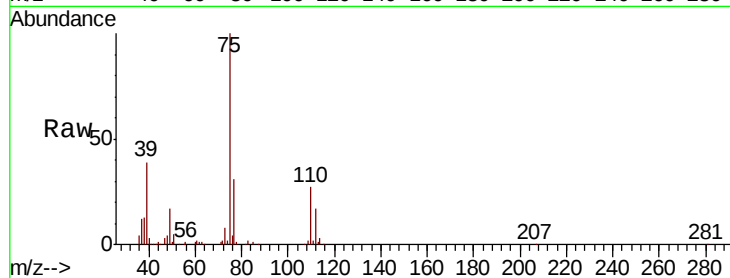
VSTDCCC050EC

Tot Ion: 75 Resp: 186768

Ion Ratio Lower Upper

75 100

77 30.8 24.6 37.0



#49

cis-1,3-Dichloropropene

Concen: 18.935 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

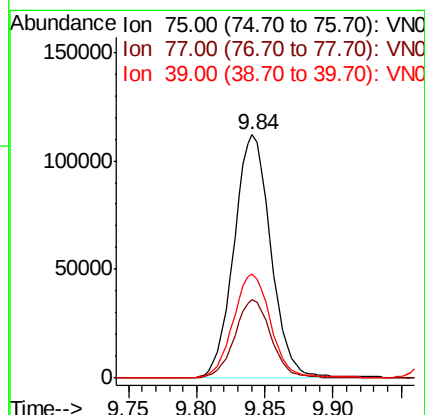
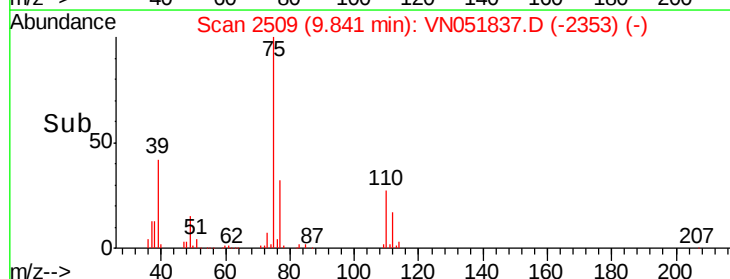
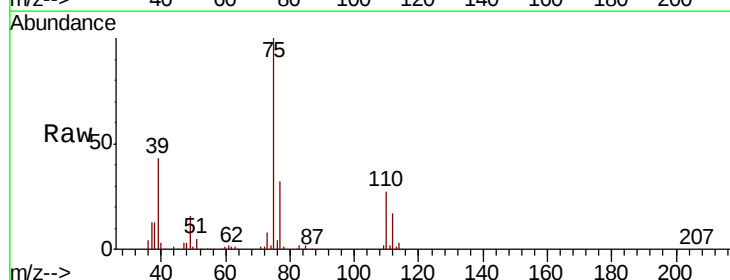
Tgt Ion: 75 Resp: 210476

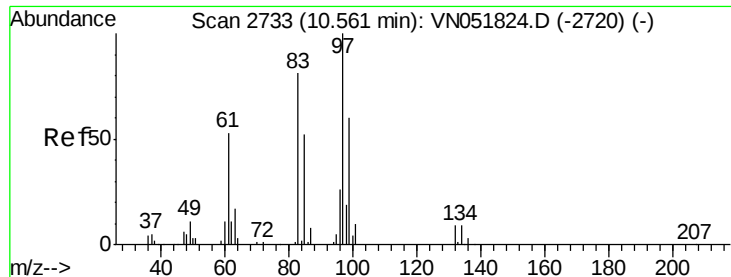
Ion Ratio Lower Upper

75 100

77 31.9 23.2 34.8

39 42.7 34.6 52.0

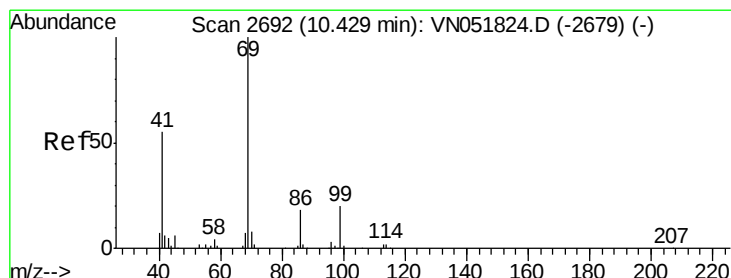
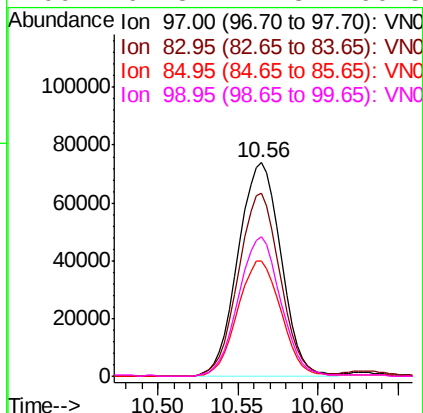
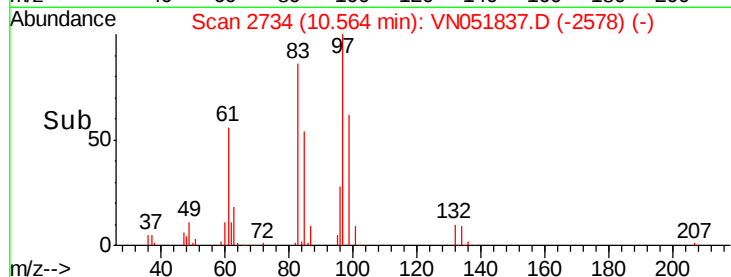
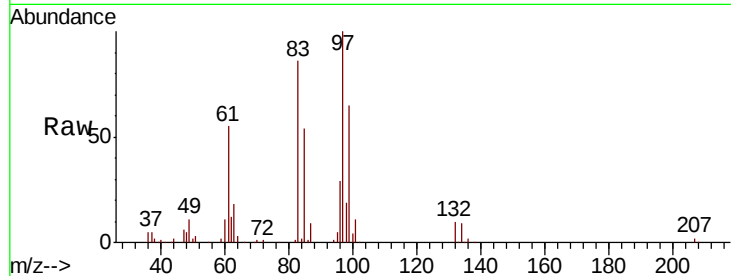




#50
 1,1,2-Trichloroethane
 Concen: 19.662 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

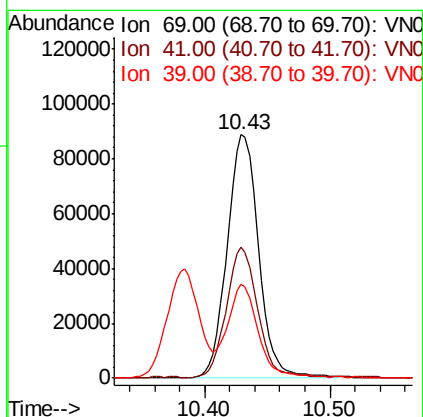
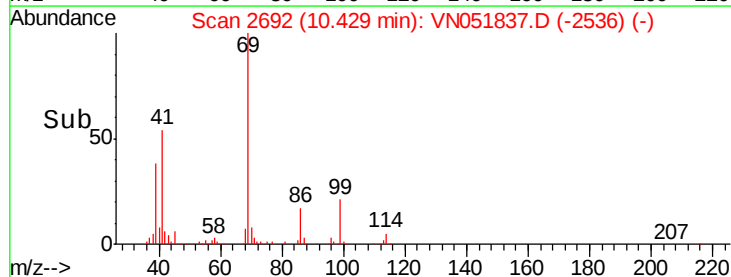
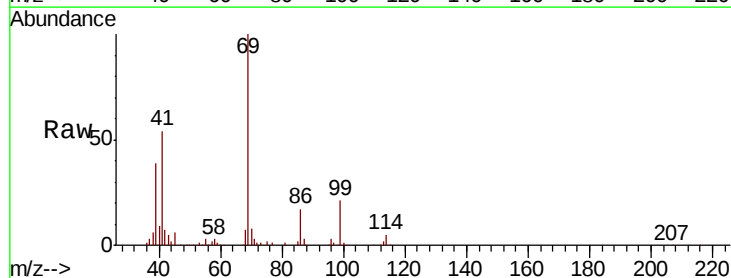
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

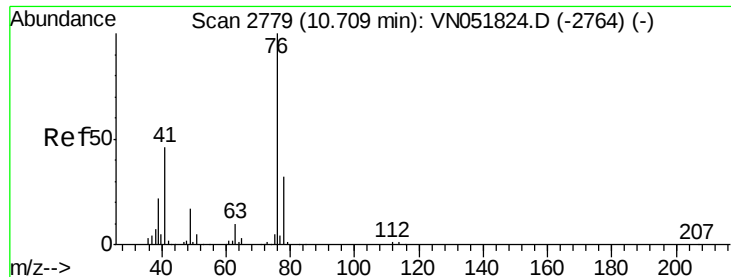
Tot Ion	97	Resp	135999
Ion	Ratio	Lower	Upper
97	100		
83	85.8	68.2	102.4
85	54.1	42.5	63.7
99	64.8	44.3	66.5



#51
 Ethyl methacrylate
 Concen: 19.581 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion	69	Resp	155060
Ion	Ratio	Lower	Upper
69	100		
41	53.7	34.4	103.1
39	38.3	16.3	48.8





#52

1,3-Dichloropropane

Concen: 20.205 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

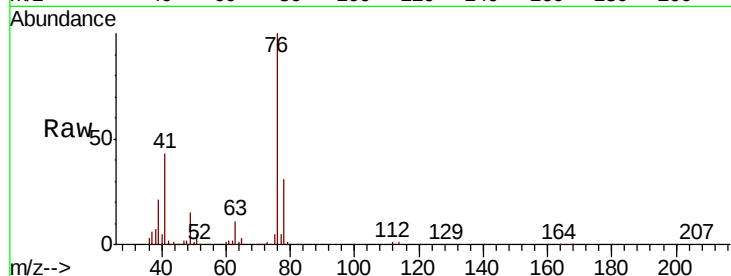
VSTDCCC050EC

Tot Ion: 76 Resp: 215691

Ion Ratio Lower Upper

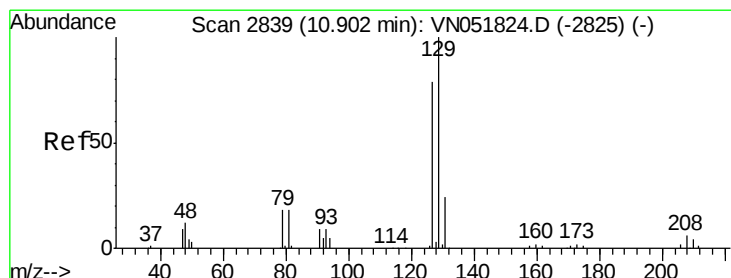
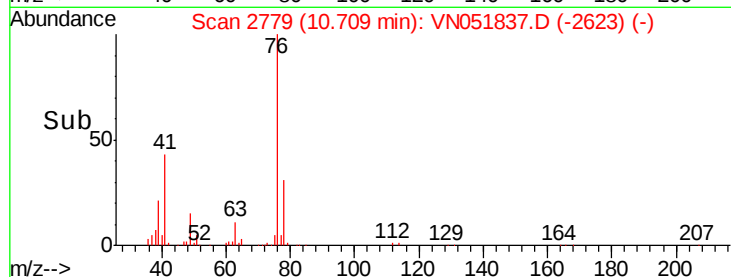
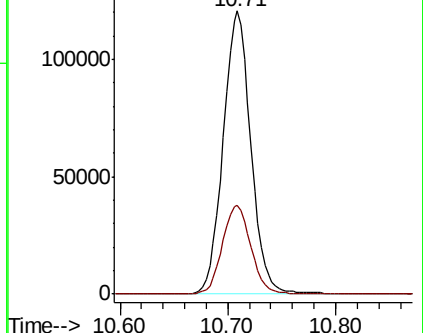
76 100

78 32.4 0.0 67.6



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-2764) (-)

Ion 78.00 (77.70 to 78.70): VN051824.D (-2764) (-)



#53

Dibromochloromethane

Concen: 18.644 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN051837.D

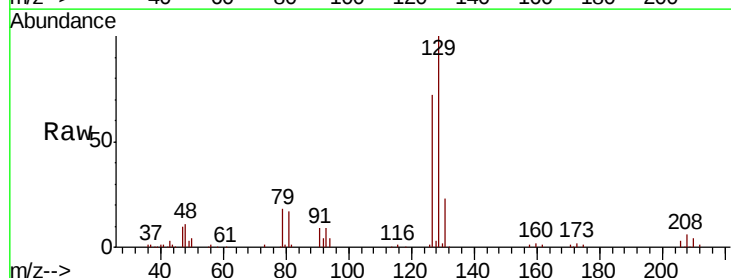
Acq: 12 Oct 2018 17:04

Tgt Ion: 129 Resp: 159535

Ion Ratio Lower Upper

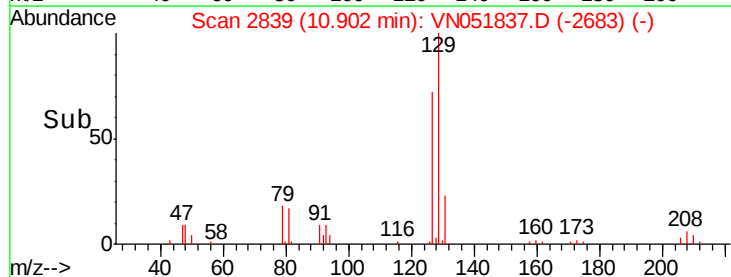
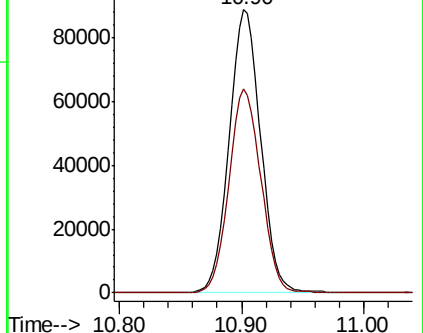
129 100

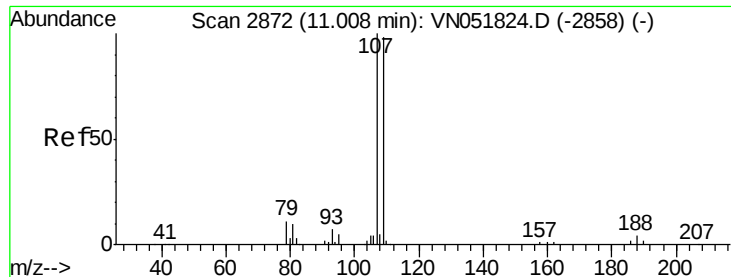
127 73.2 40.2 120.5



Abundance Ion 129.00 (128.70 to 129.70): VN051824.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN051824.D (-2825) (-)

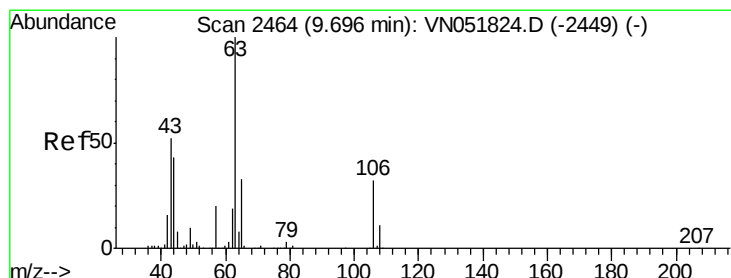
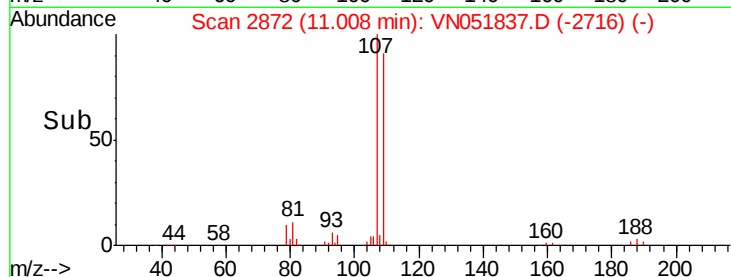
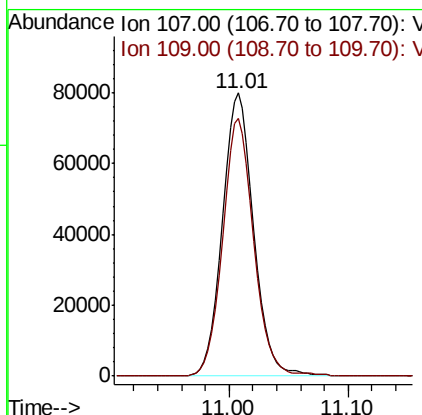
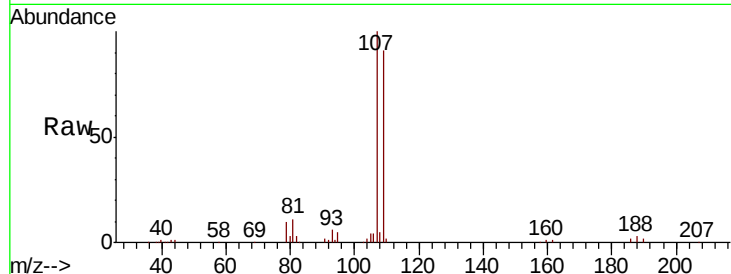




#54
 1,2-Dibromoethane
 Concen: 19.912 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

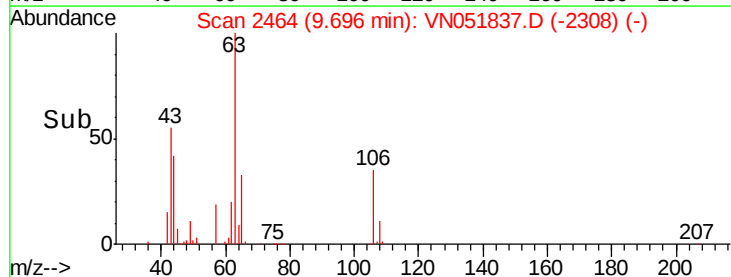
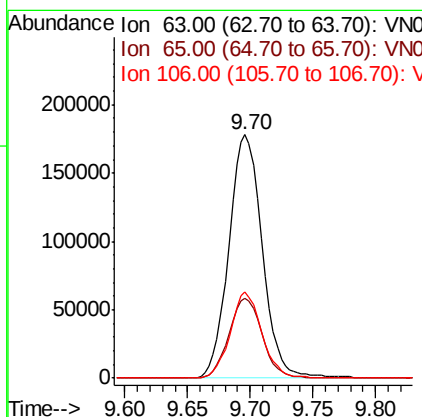
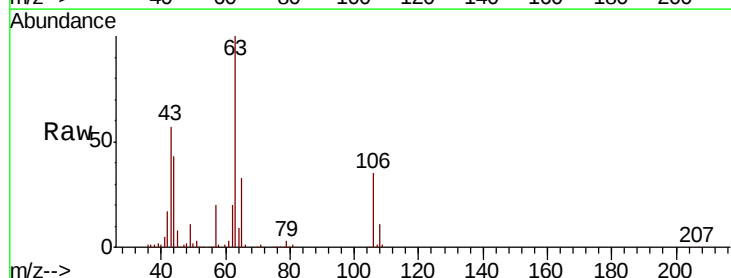
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

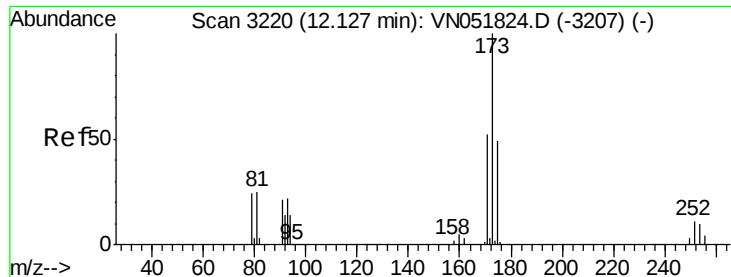
Tot Ion:107 Resp: 144568
 Ion Ratio Lower Upper
 107 100
 109 90.3 77.4 116.0



#55
 2-Chloroethyl vinyl ether
 Concen: 97.905 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion: 63 Resp: 331433
 Ion Ratio Lower Upper
 63 100
 65 32.4 25.4 38.0
 106 33.3 21.2 31.8#

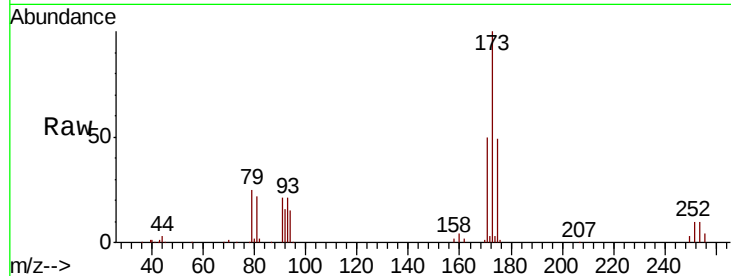




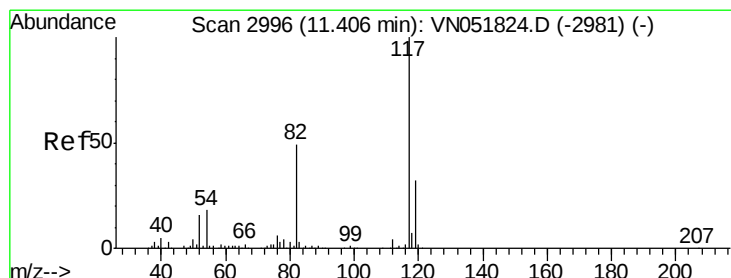
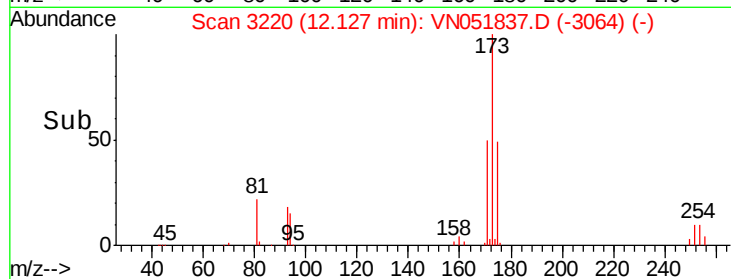
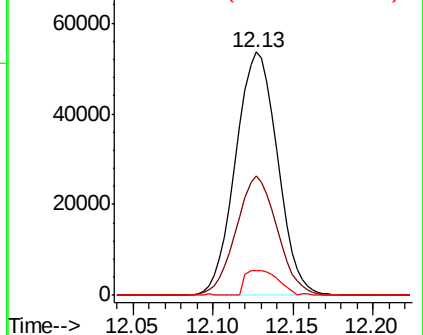
#56
Bromoform
Concen: 17.024 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tot Ion:173 Resp: 96070
Ion Ratio Lower Upper
173 100
175 47.9 35.8 53.8
254 8.0 8.6 13.0#

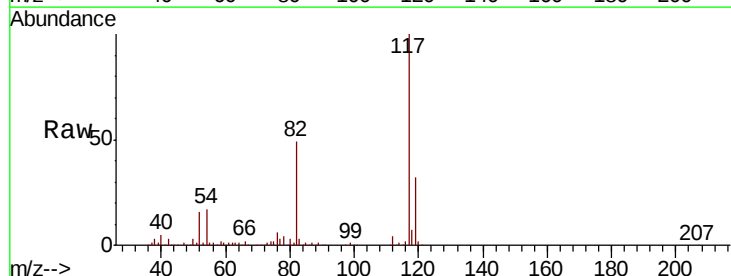


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V

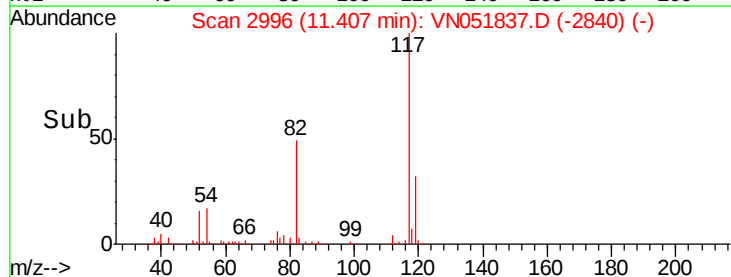
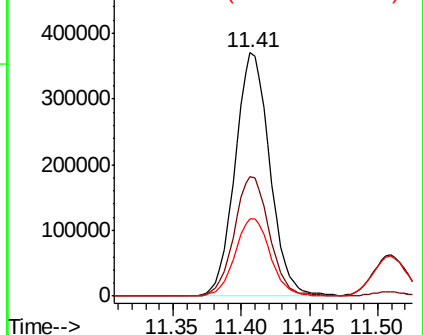


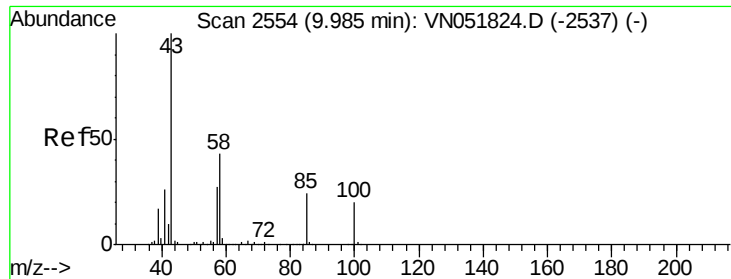
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion:117 Resp: 655517
Ion Ratio Lower Upper
117 100
82 49.5 44.1 66.1
119 32.4 25.8 38.8



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

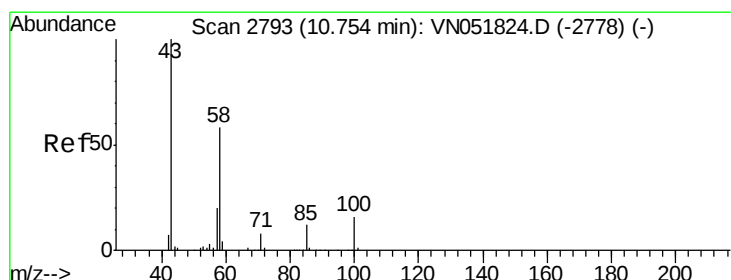
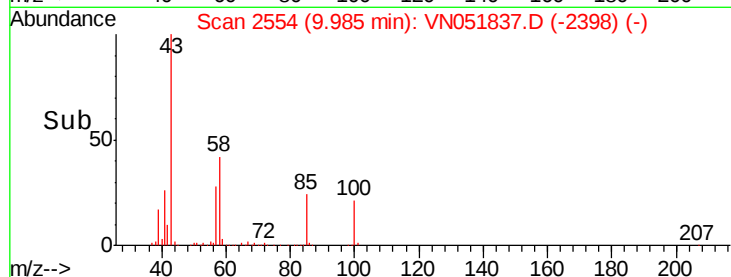
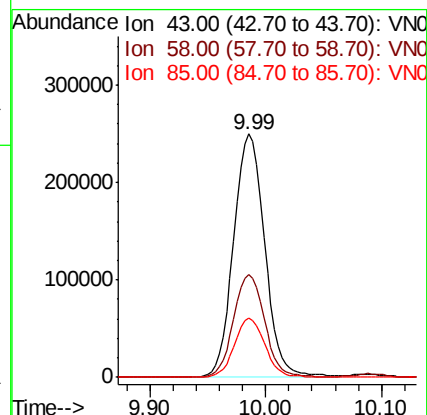
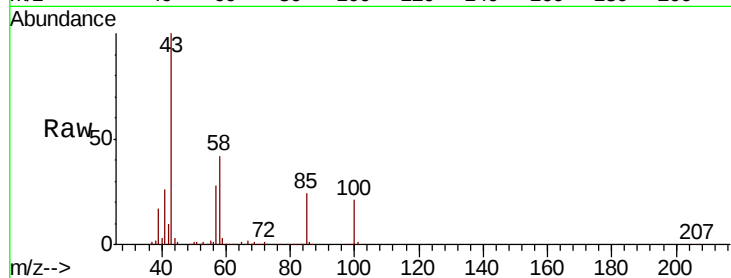




#58
4-Methyl-2-Pentanone
Concen: 106.133 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

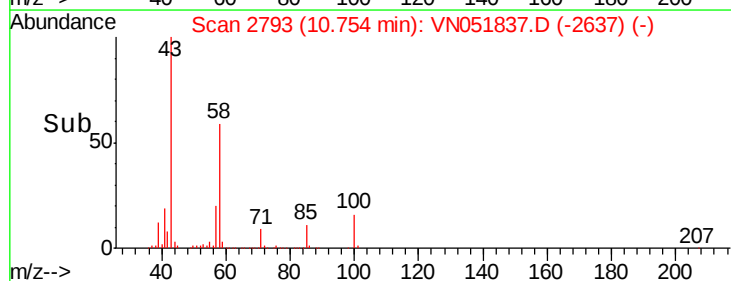
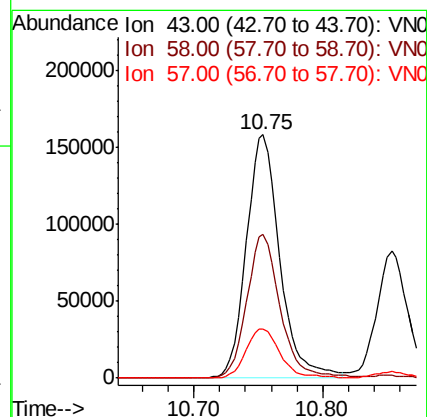
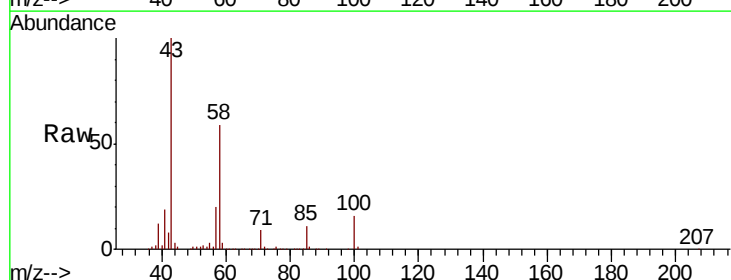
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

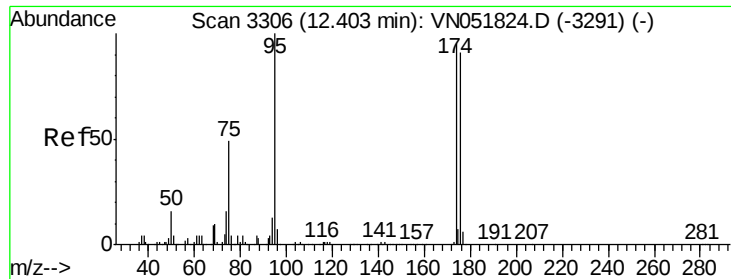
Tot Ion: 43 Resp: 465572
Ion Ratio Lower Upper
43 100
58 42.4 29.3 43.9
85 23.7 12.6 18.8#



#59
2-Hexanone
Concen: 96.293 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 43 Resp: 284971
Ion Ratio Lower Upper
43 100
58 59.1 41.3 61.9
57 20.8 13.4 20.0#

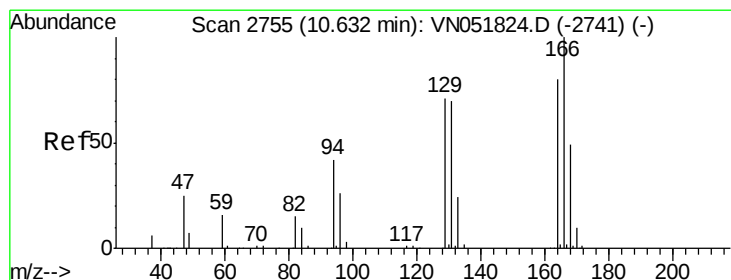
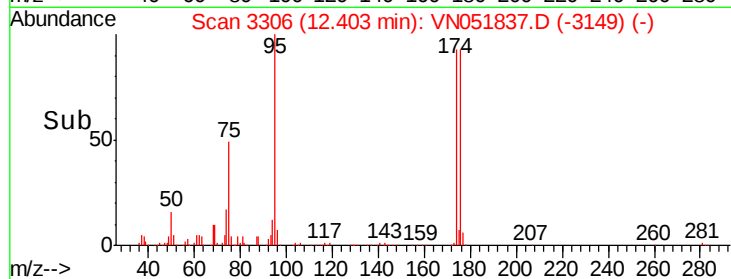
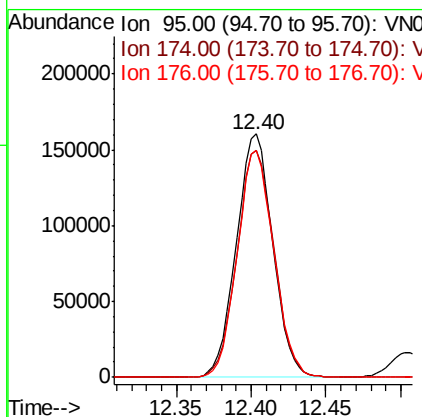
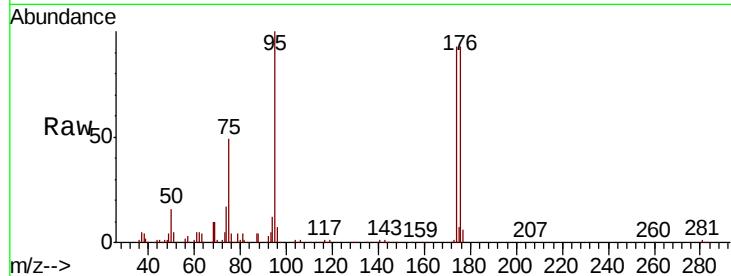




#60
4-Bromofluorobenzene
Concen: 96.293 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

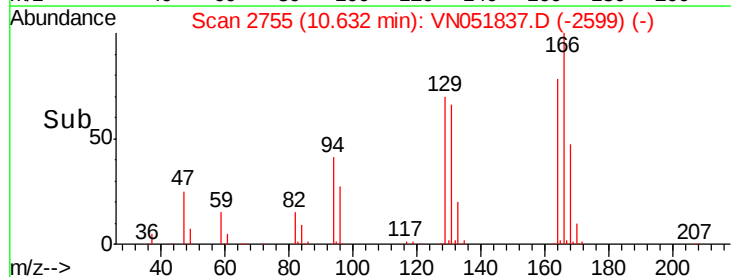
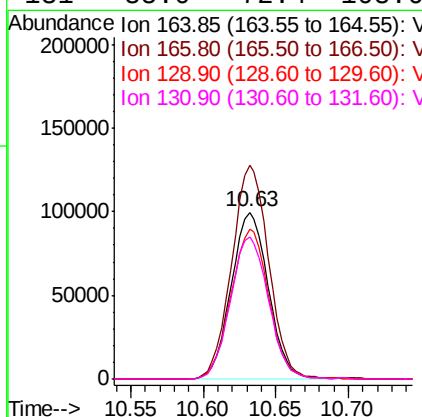
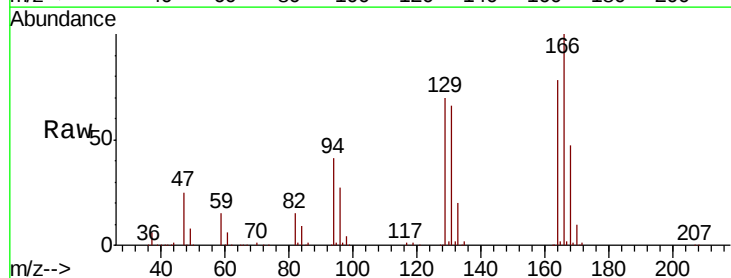
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

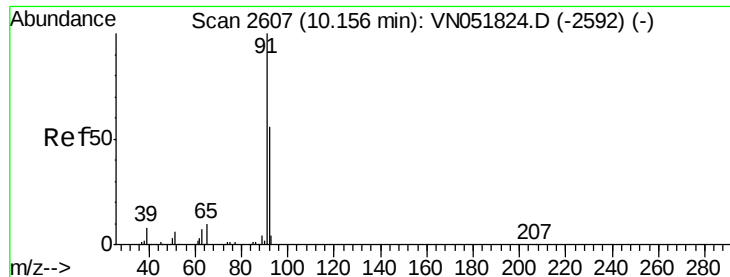
Tot Ion: 95 Resp: 272307
Ion Ratio Lower Upper
95 100
174 94.5 73.5 110.3
176 93.7 70.2 105.2



#61
Tetrachloroethene
Concen: 21.238 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 164 Resp: 178043
Ion Ratio Lower Upper
164 100
166 128.0 98.7 148.1
129 89.8 69.6 104.4
131 85.0 72.4 108.6





#62

Toluene

Concen: 20.440 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

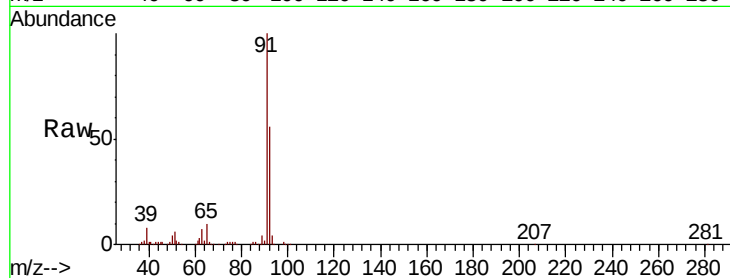
VSTDCCC050EC

Tot Ion: 91 Resp: 665644

Ion Ratio Lower Upper

91 100

92 56.7 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-2592) (-)

Ion 92.00 (91.70 to 92.70): VN051824.D (-2592) (-)

10.16

400000

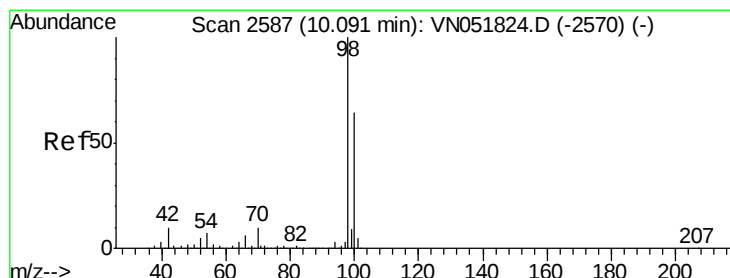
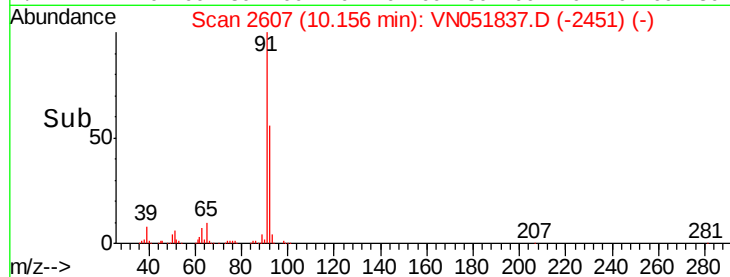
300000

200000

100000

0

Time-->



#63

Toluene-d8

Concen: 20.440 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051837.D

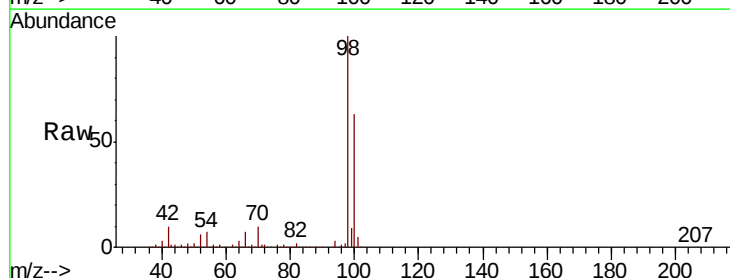
Acq: 12 Oct 2018 17:04

Tgt Ion: 98 Resp: 862529

Ion Ratio Lower Upper

98 100

100 63.2 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051824.D (-2570) (-)

10.09

500000

400000

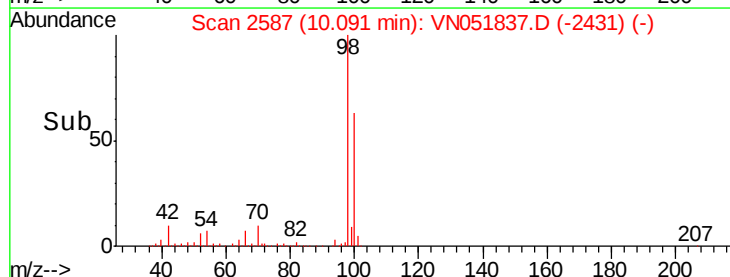
300000

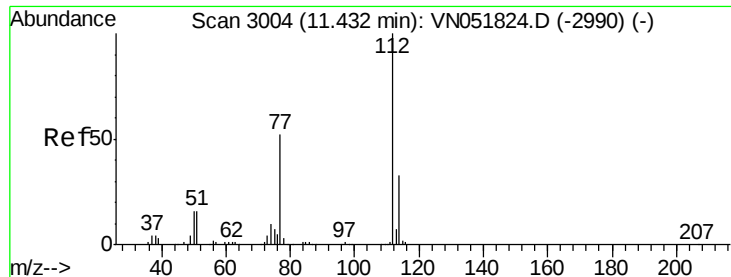
200000

100000

0

Time-->

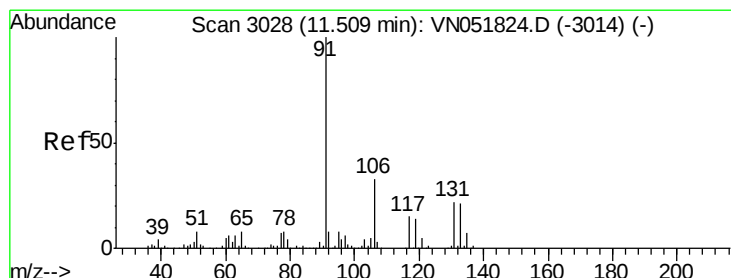
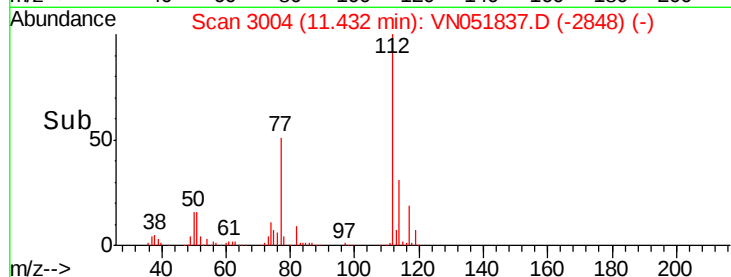
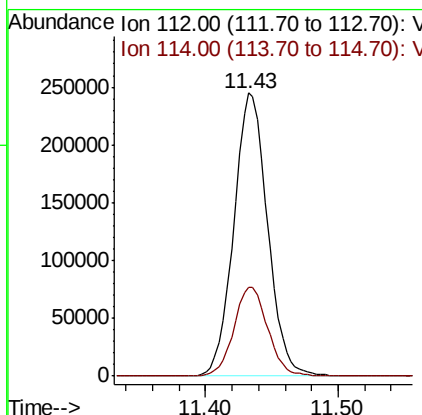
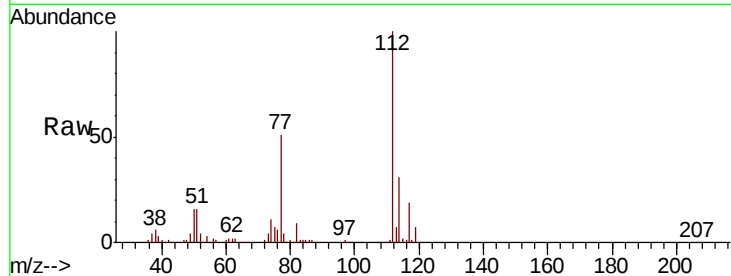




#64
Chlorobenzene
Concen: 20.303 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

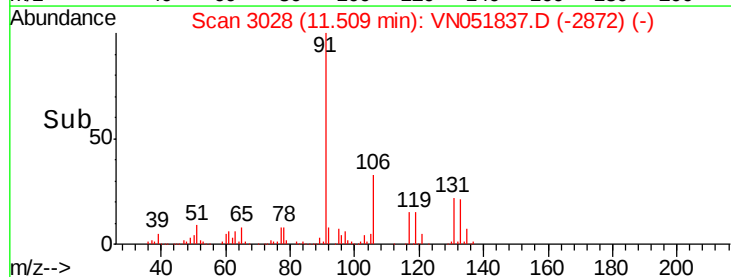
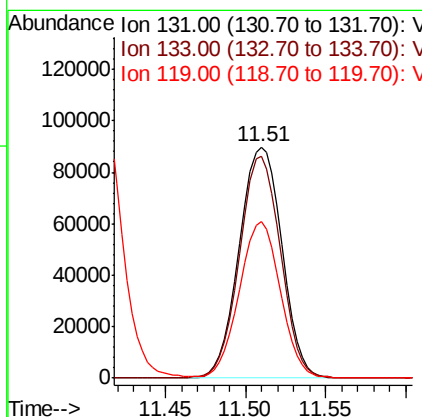
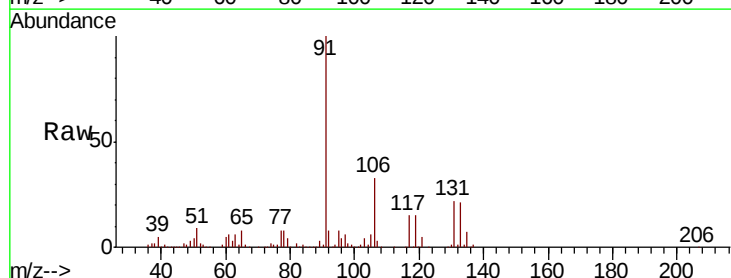
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

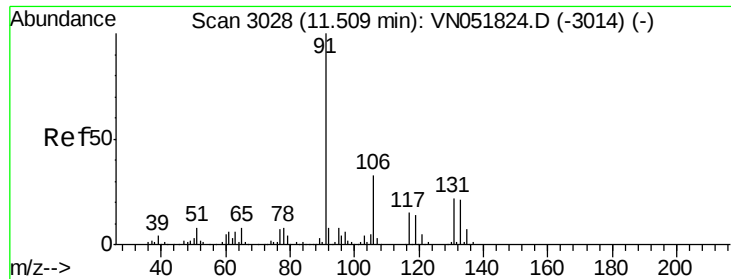
Tot Ion:112 Resp: 433020
Ion Ratio Lower Upper
112 100
114 31.4 27.5 41.3



#65
1,1,1,2-Tetrachloroethane
Concen: 19.982 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion:131 Resp: 163573
Ion Ratio Lower Upper
131 100
133 92.6 0.0 190.4
119 65.3 0.0 128.0

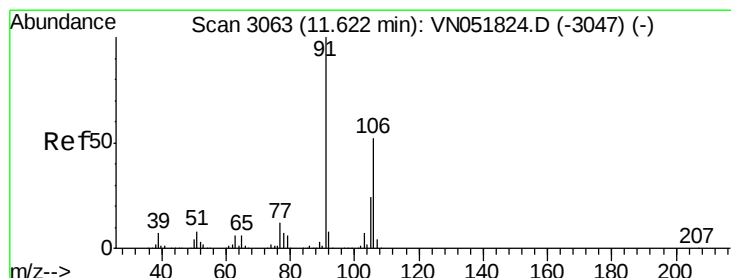
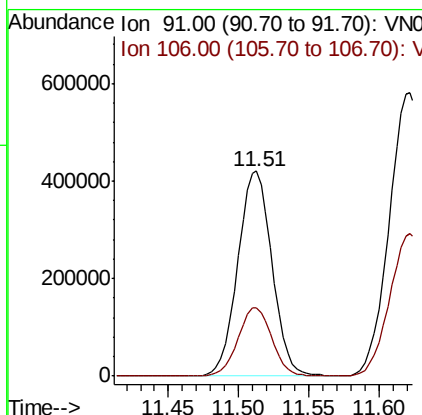
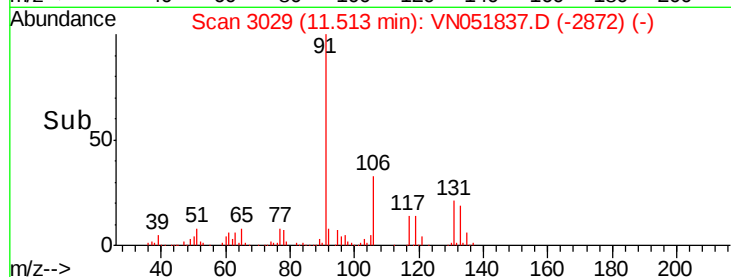
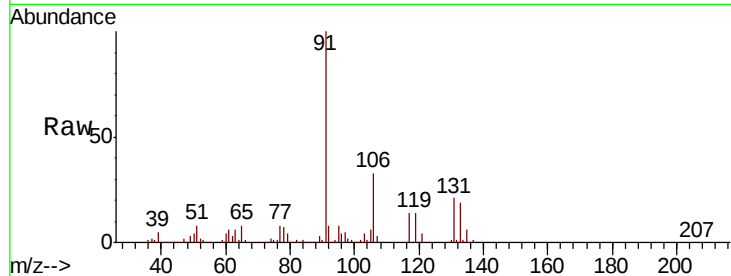




#66
Ethyl Benzene
Concen: 19.894 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

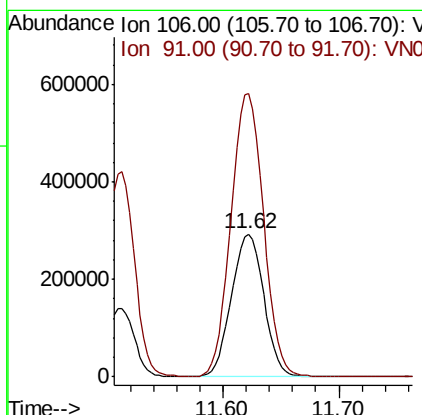
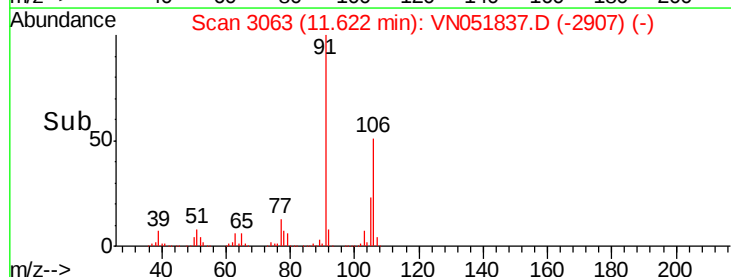
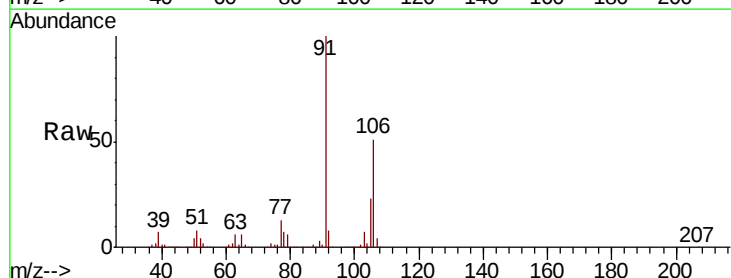
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC050EC

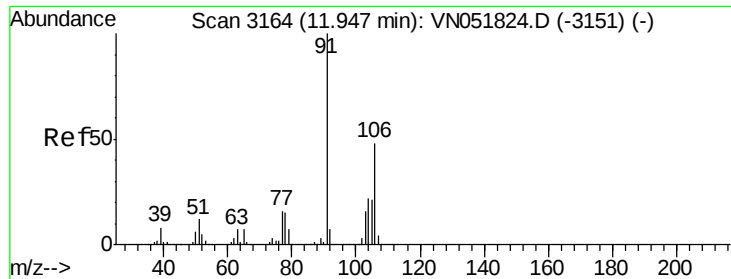
Tot Ion: 91 Resp: 716008
Ion Ratio Lower Upper
91 100
106 33.3 25.9 38.9



#67
m/p-Xylenes
Concen: 38.877 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion: 106 Resp: 567278
Ion Ratio Lower Upper
106 100
91 199.2 158.8 238.2

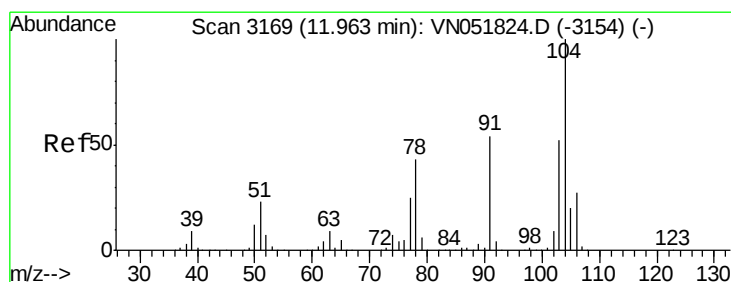
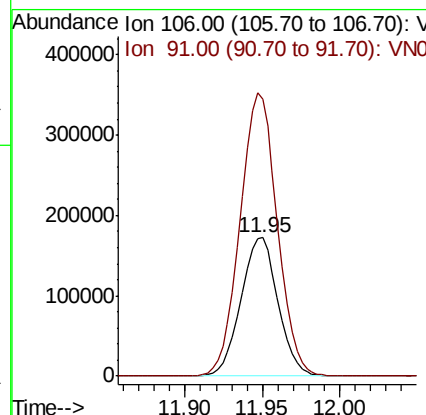
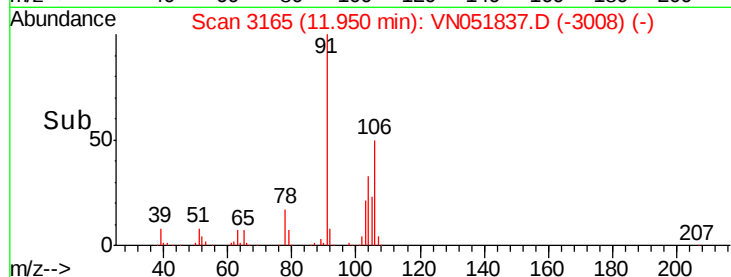
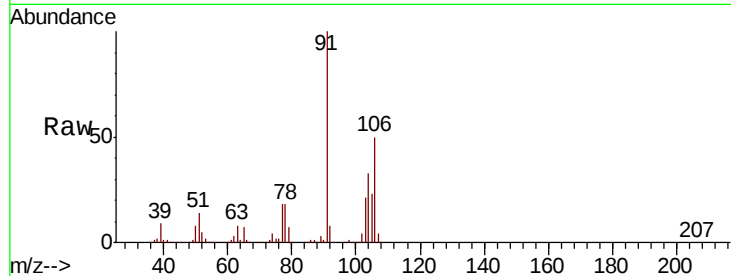




#68
o-Xylene
Concen: 20.035 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

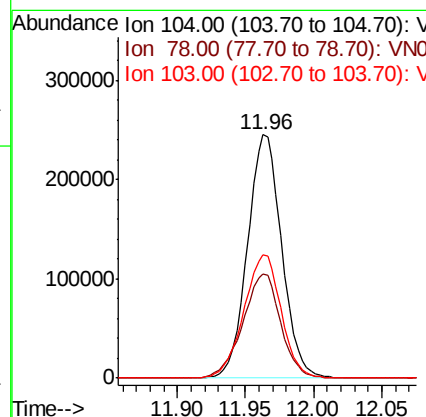
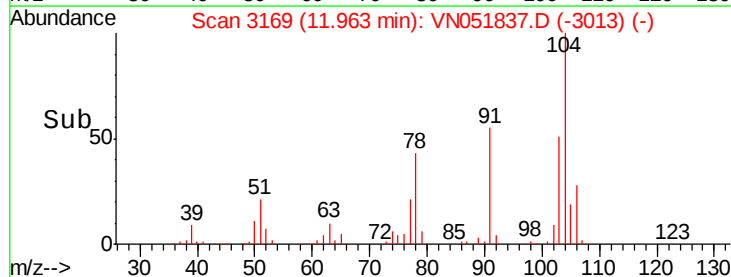
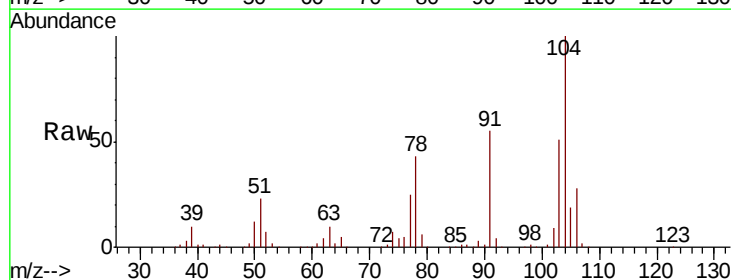
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

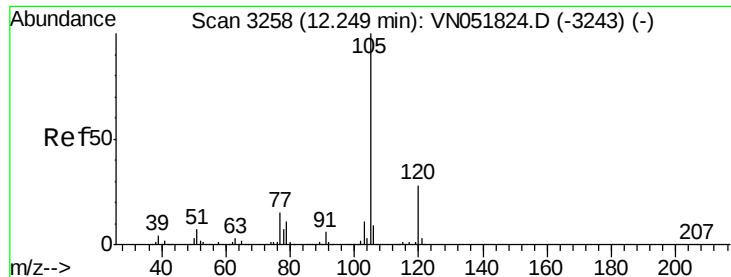
Tot Ion:106 Resp: 288193
Ion Ratio Lower Upper
106 100
91 204.1 111.1 333.3



#69
Styrene
Concen: 19.299 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN051837.D
Acq: 12 Oct 2018 17:04

Tgt Ion:104 Resp: 425927
Ion Ratio Lower Upper
104 100
78 47.6 40.6 60.8
103 55.6 44.0 66.0





#70

Isopropylbenzene

Concen: 19.806 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

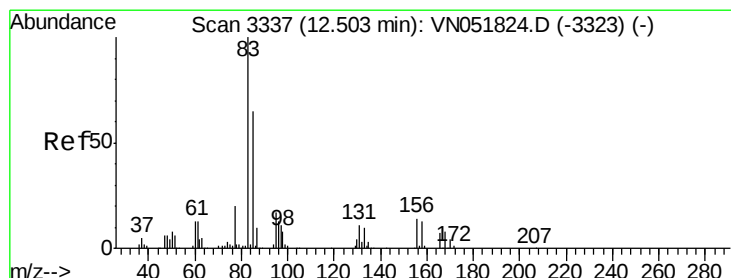
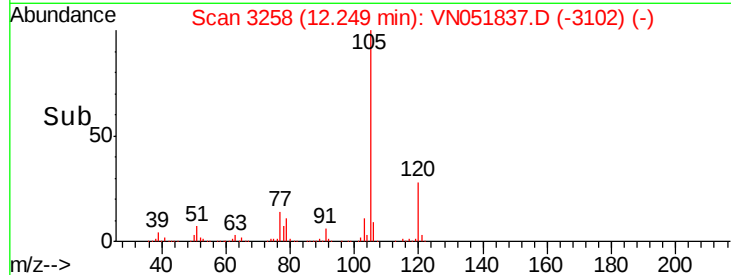
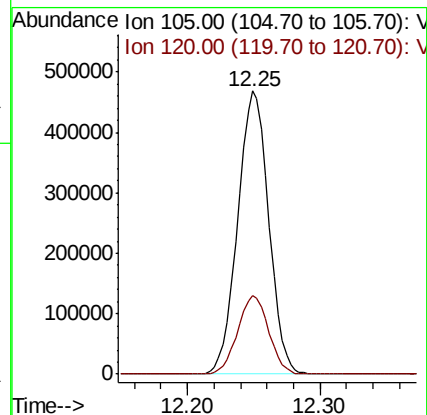
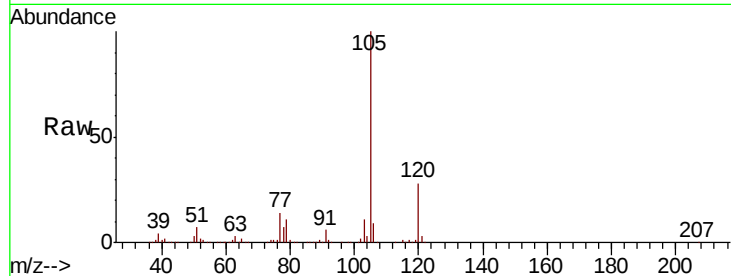
VSTDCCC050EC

Tot Ion:105 Resp: 759763

Ion Ratio Lower Upper

105 100

120 27.6 19.0 35.4



#71

1,1,2,2-Tetrachloroethane

Concen: 20.533 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

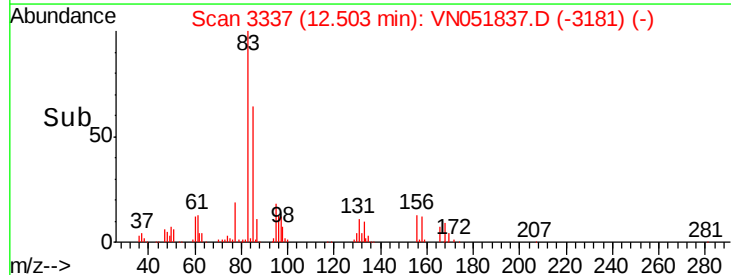
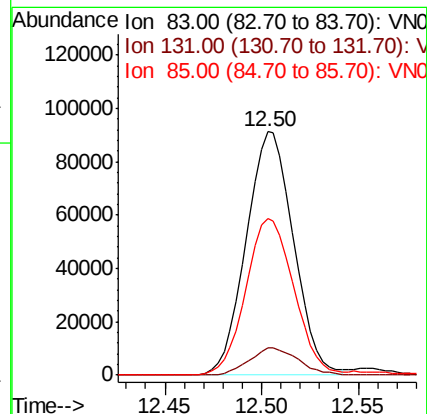
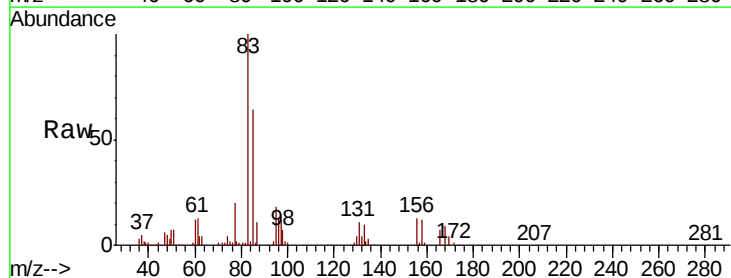
Tgt Ion: 83 Resp: 155545

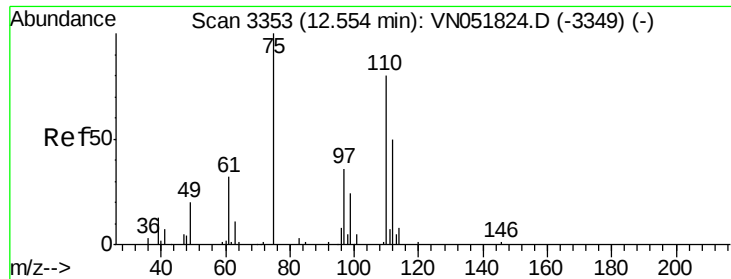
Ion Ratio Lower Upper

83 100

131 11.5 5.5 16.4

85 65.3 30.6 91.8





#72

1,2,3-Trichloropropane

Concen: 29.791 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

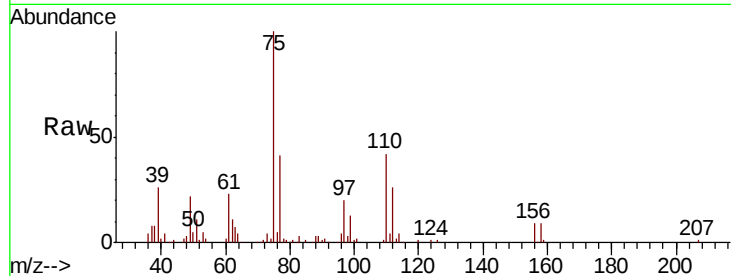
VSTDCCC050EC

Tot Ion: 75 Resp: 177536

Ion Ratio Lower Upper

75 100

77 159.2 0.0 400.0



Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN051824.D (-3349) (-)

150000

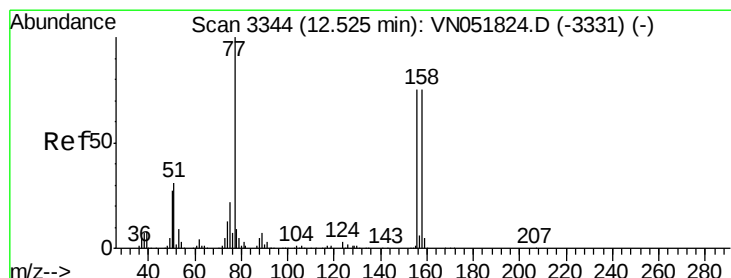
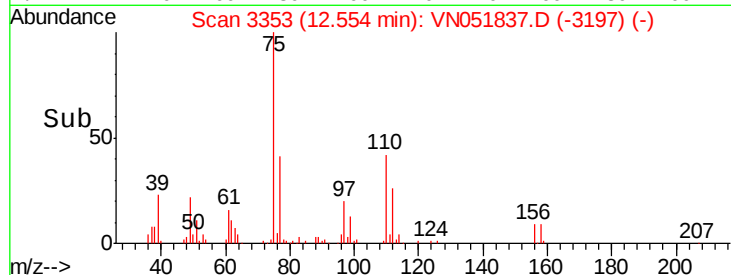
100000

50000

0

12.50 12.55 12.60

Time-->



#73

Bromobenzene

Concen: 19.527 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

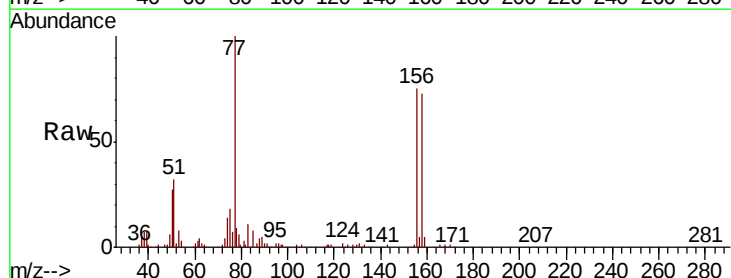
Tgt Ion: 156 Resp: 185536

Ion Ratio Lower Upper

156 100

77 152.3 0.0 377.4

158 96.7 0.0 203.0



Abundance Ion 156.00 (155.70 to 156.70): VN051824.D (-3331) (-)

Ion 77.00 (76.70 to 77.70): VN051824.D (-3331) (-)

Ion 158.00 (157.70 to 158.70): VN051824.D (-3331) (-)

150000

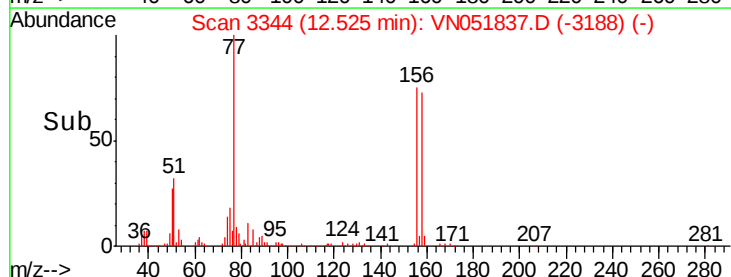
100000

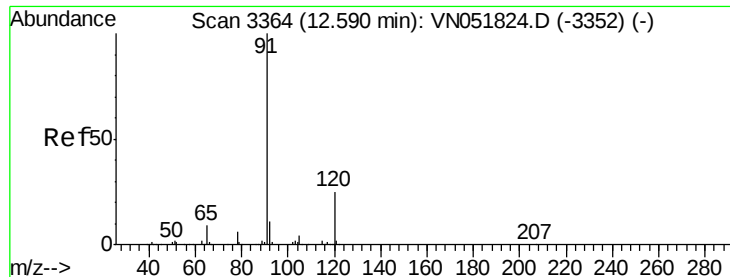
50000

0

12.45 12.50 12.55 12.60

Time-->





#74

n-propylbenzene

Concen: 19.517 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

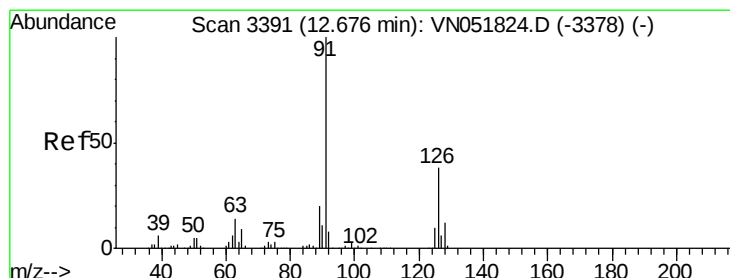
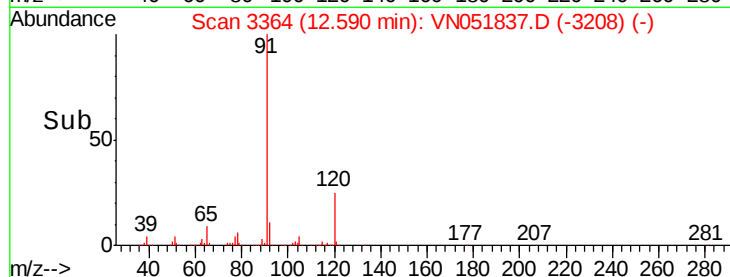
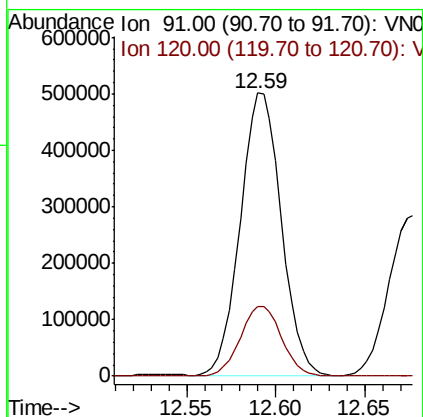
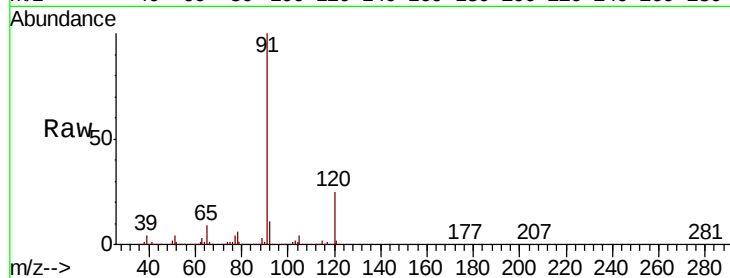
VSTDCCC050EC

Tot Ion: 91 Resp: 805285

Ion Ratio Lower Upper

91 100

120 24.8 0.0 45.0



#75

2-Chlorotoluene

Concen: 19.852 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051837.D

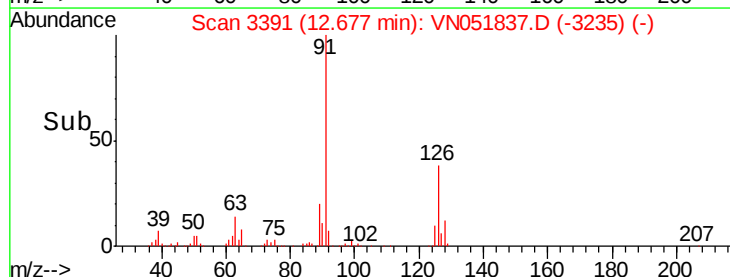
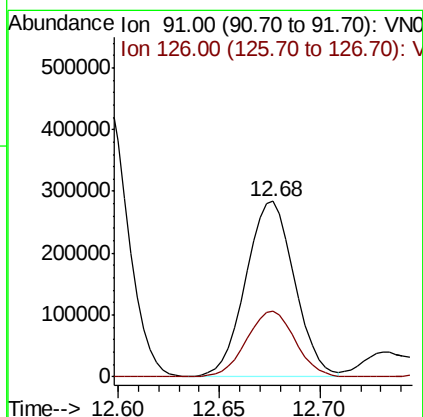
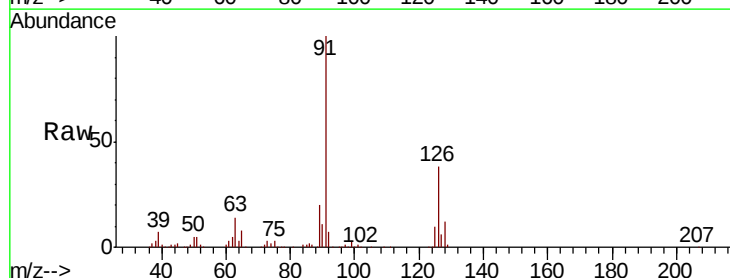
Acq: 12 Oct 2018 17:04

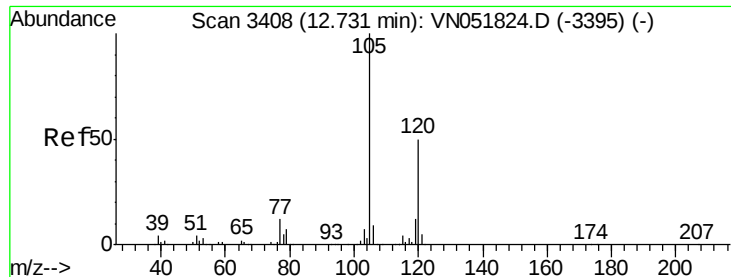
Tgt Ion: 91 Resp: 480217

Ion Ratio Lower Upper

91 100

126 37.6 0.0 67.6





#76

1,3,5-Trimethylbenzene

Concen: 19.485 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

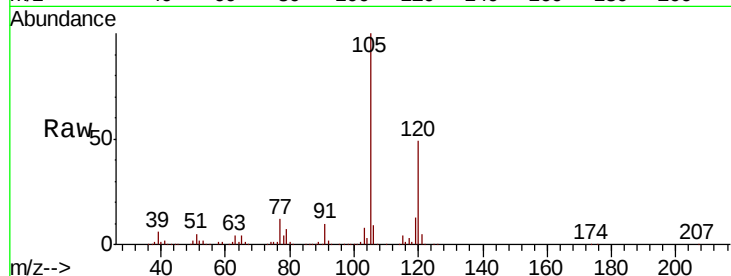
VSTDCCC050EC

Tot Ion:105 Resp: 618076

Ion Ratio Lower Upper

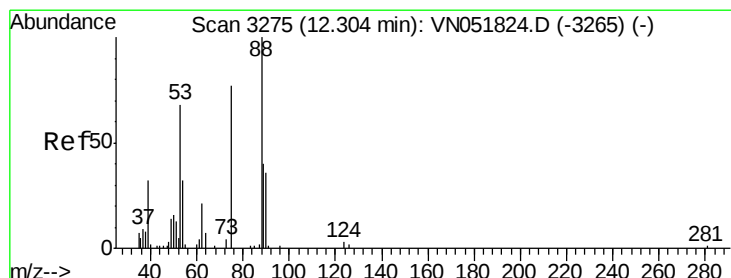
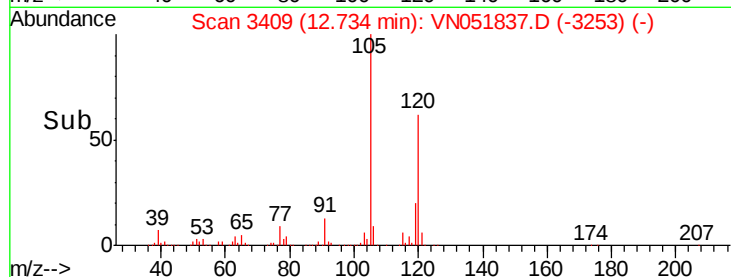
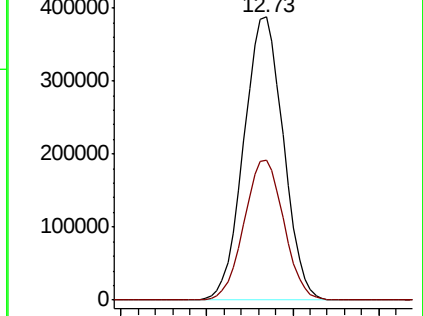
105 100

120 49.8 0.0 98.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 16.219 ug/l

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

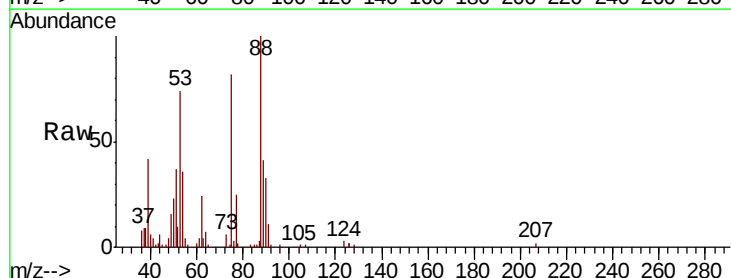
Tgt Ion: 75 Resp: 31968

Ion Ratio Lower Upper

75 100

53 88.9 46.3 138.9

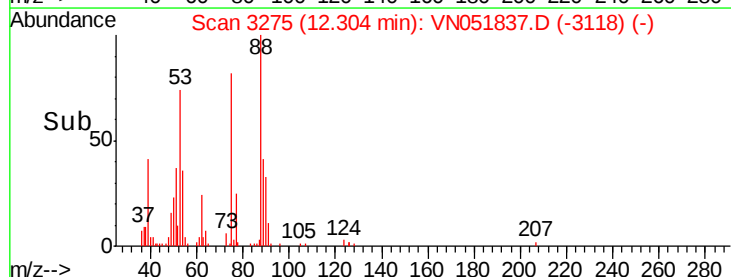
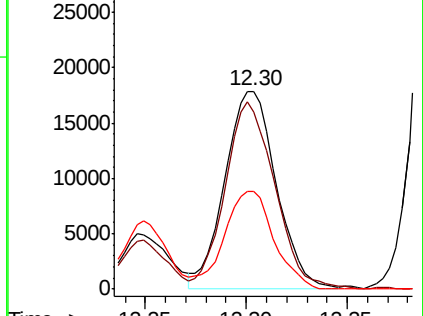
89 50.1 24.6 73.8

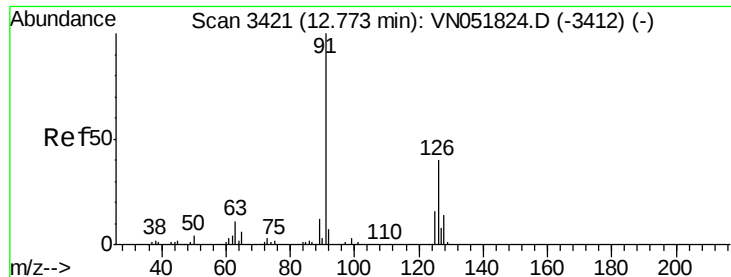


Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO





#78

4-Chlorotoluene

Concen: 19.331 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

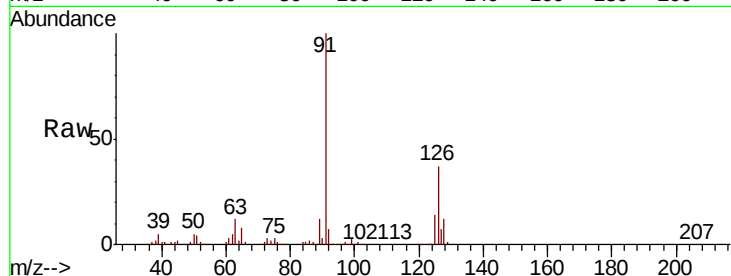
VSTDCCC050EC

Tot Ion: 91 Resp: 459429

Ion Ratio Lower Upper

91 100

126 36.3 0.0 65.2



Abundance Ion 91.00 (90.70 to 91.70): VN051824.D (-3412) (-)

Ion 126.00 (125.70 to 126.70): VN051824.D (-3412) (-)

12.77

250000

200000

150000

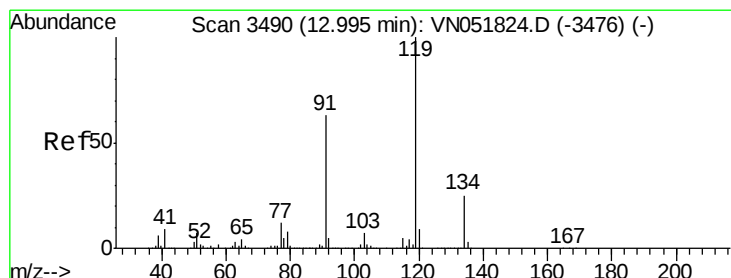
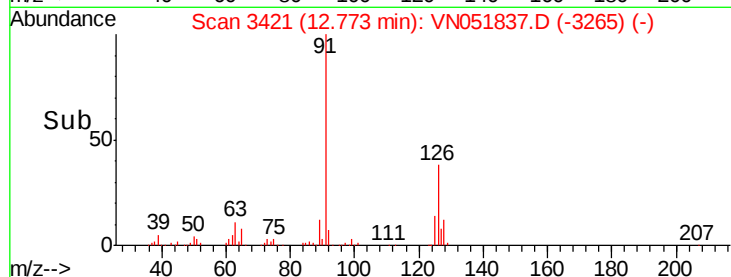
100000

50000

0

12.75 12.80 12.85

Time-->



#79

tert-butylbenzene

Concen: 19.670 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

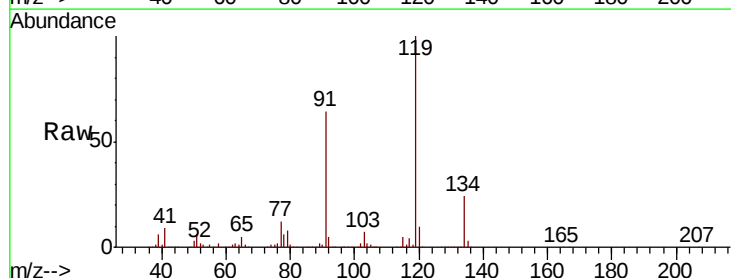
Tgt Ion: 119 Resp: 573812

Ion Ratio Lower Upper

119 100

91 62.3 0.0 131.6

134 24.8 0.0 46.2



Abundance Ion 119.00 (118.70 to 119.70): VN051824.D (-3476) (-)

Ion 91.00 (90.70 to 91.70): VN051824.D (-3476) (-)

Ion 134.00 (133.70 to 134.70): VN051824.D (-3476) (-)

12.99

400000

300000

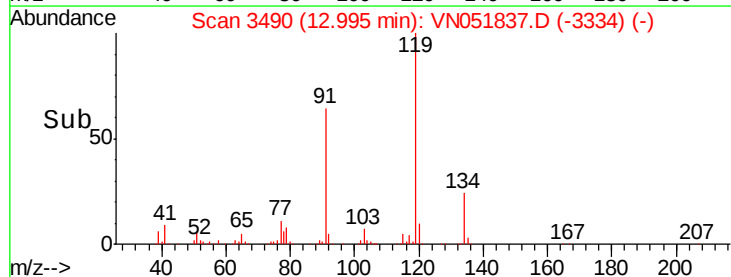
200000

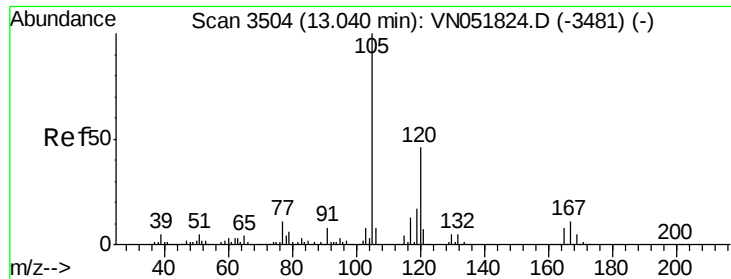
100000

0

12.95 13.00

Time-->





#80

1,2,4-Trimethylbenzene

Concen: 19.314 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

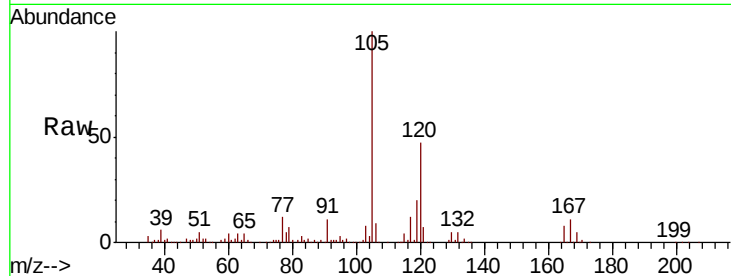
VSTDCCC050EC

Tot Ion:105 Resp: 612314

Ion Ratio Lower Upper

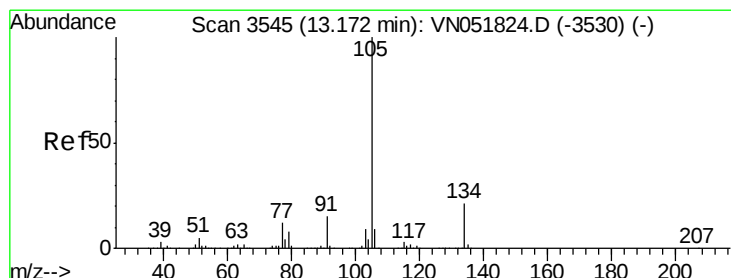
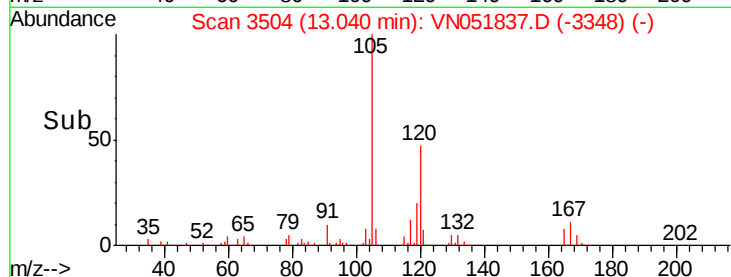
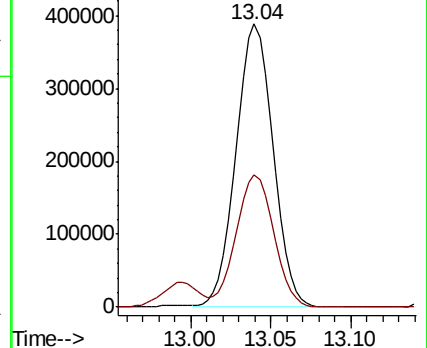
105 100

120 47.7 0.0 89.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

sec-Butylbenzene

Concen: 19.445 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051837.D

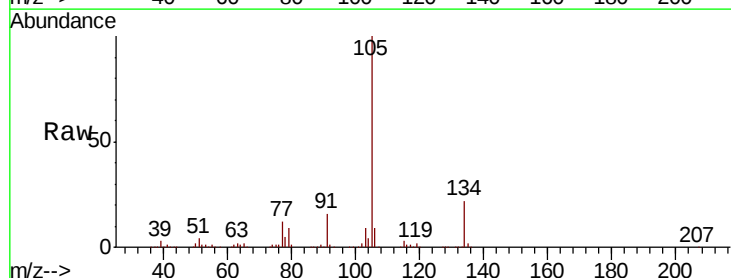
Acq: 12 Oct 2018 17:04

Tgt Ion:105 Resp: 742045

Ion Ratio Lower Upper

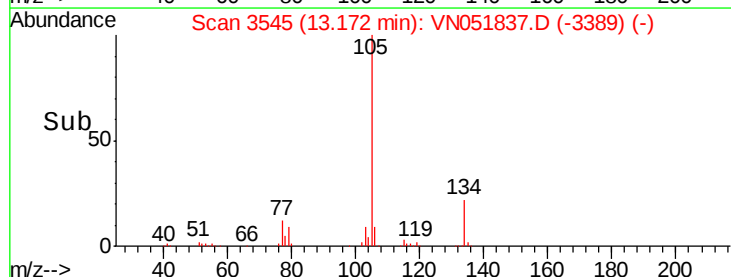
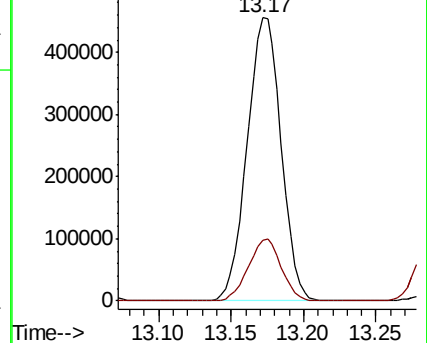
105 100

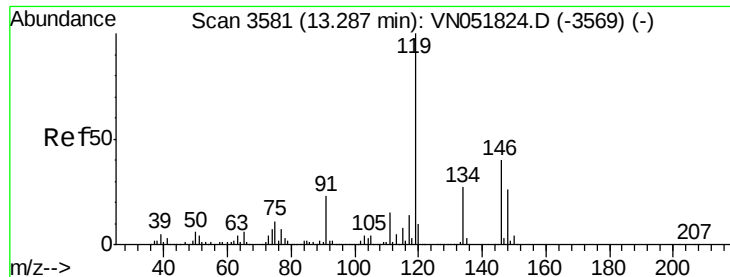
134 21.2 0.0 39.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

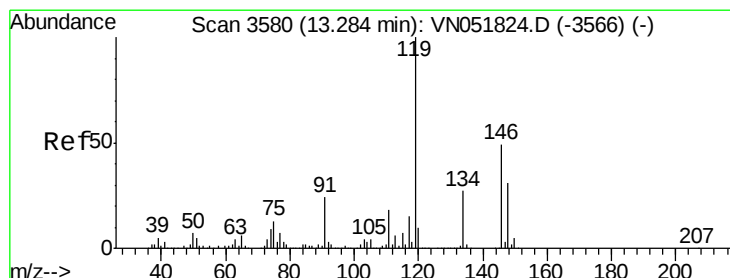
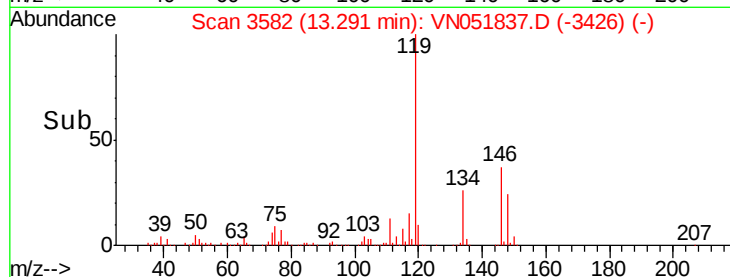
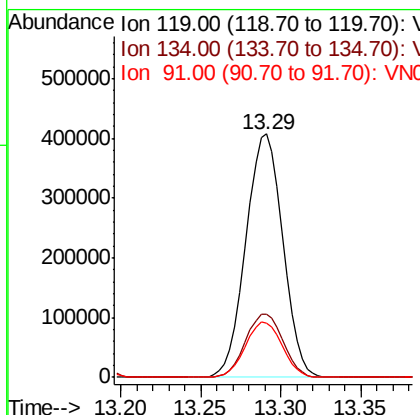
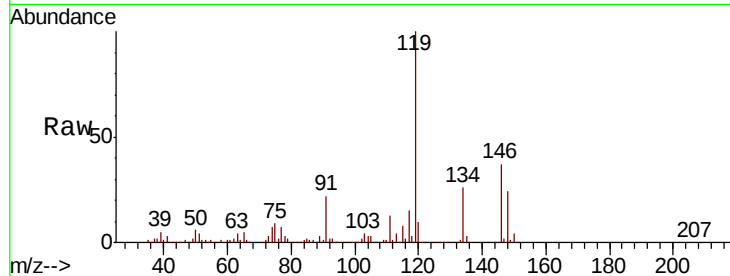




#82
 p-Isopropyltoluene
 Concen: 18.772 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

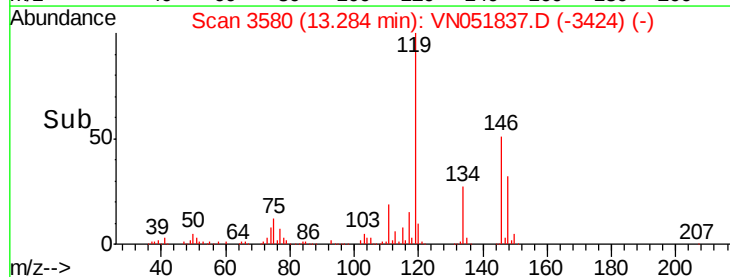
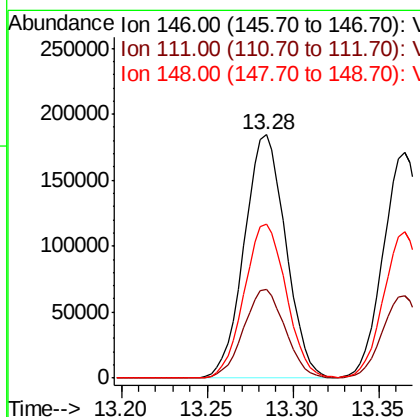
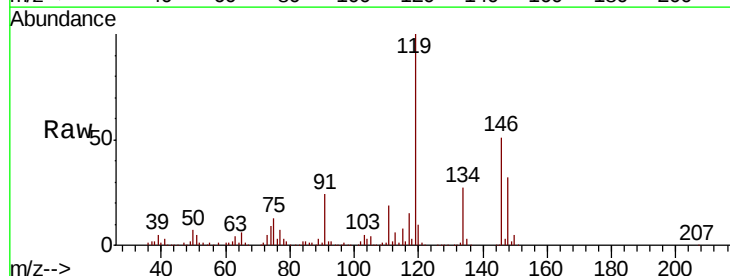
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

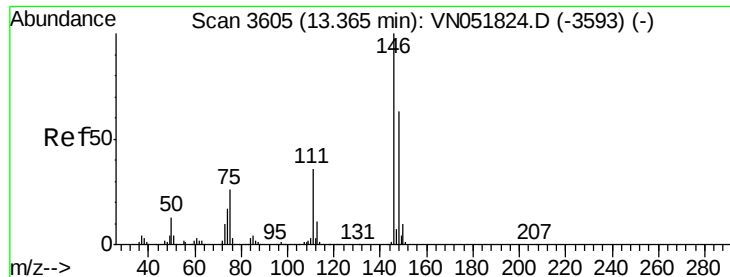
Tot Ion:119 Resp: 641041
 Ion Ratio Lower Upper
 119 100
 134 26.5 0.0 53.6
 91 22.9 0.0 52.0



#83
 1,3-Dichlorobenzene
 Concen: 18.476 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Tgt Ion:146 Resp: 309762
 Ion Ratio Lower Upper
 146 100
 111 36.5 18.1 54.3
 148 63.8 31.3 93.8





#84

1,4-Dichlorobenzene

Concen: 18.079 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

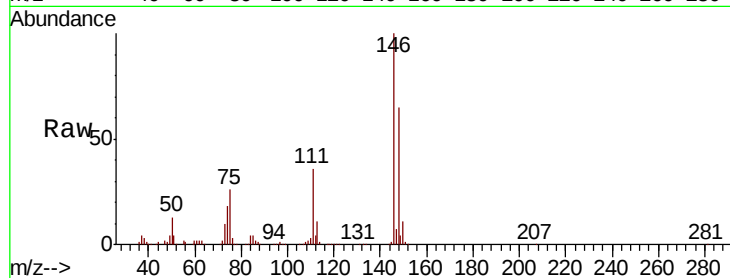
Tot Ion:146 Resp: 285354

Ion Ratio Lower Upper

146 100

111 36.4 17.4 52.2

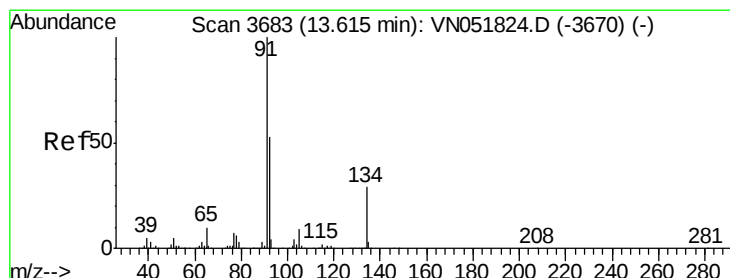
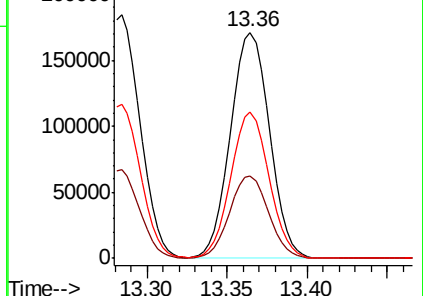
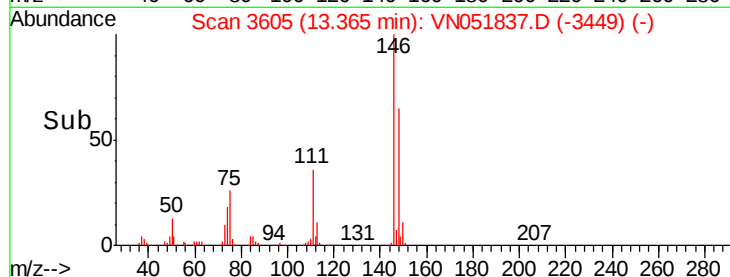
148 63.4 32.8 98.3



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: 18.186 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

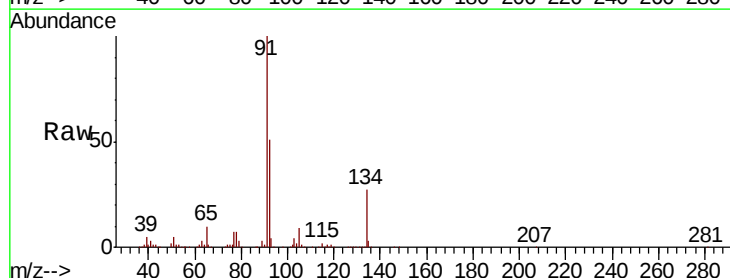
Tgt Ion: 91 Resp: 468283

Ion Ratio Lower Upper

91 100

92 51.3 0.0 97.4

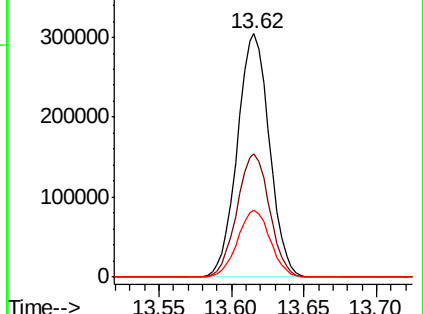
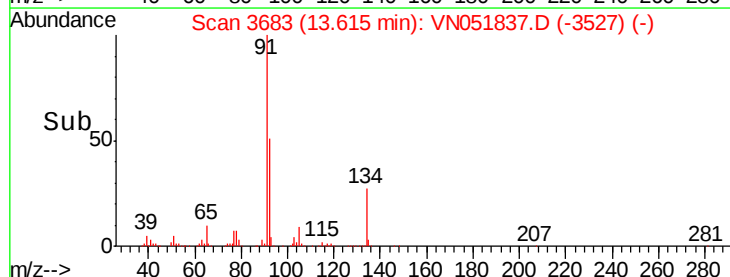
134 27.8 0.0 49.6

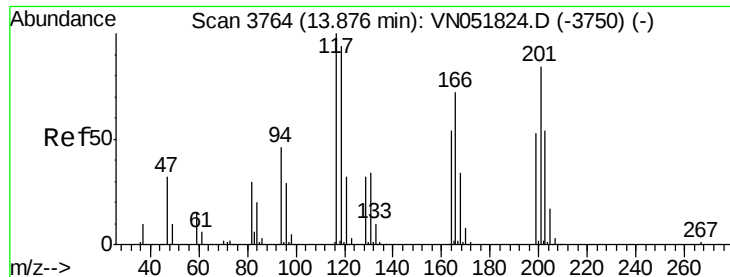


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#86

Hexachloroethane

Concen: 18.040 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

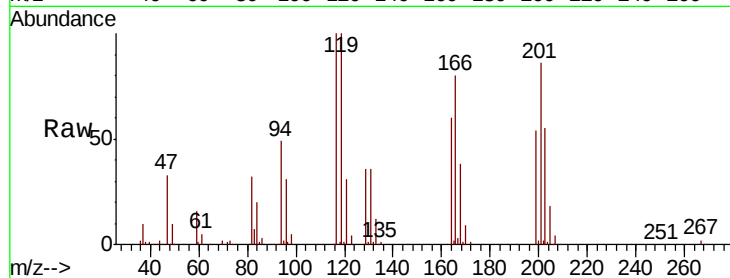
VSTDCCC050EC

Tot Ion:117 Resp: 106220

Ion Ratio Lower Upper

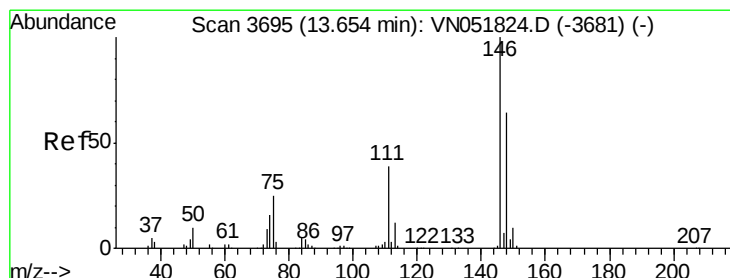
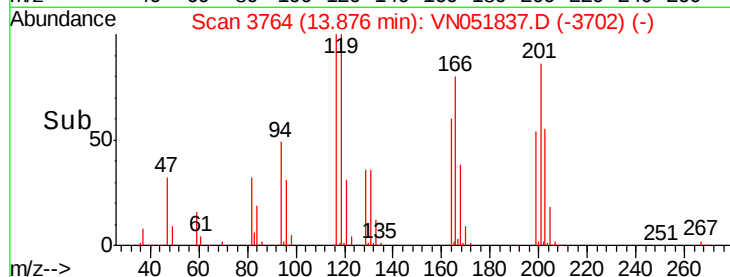
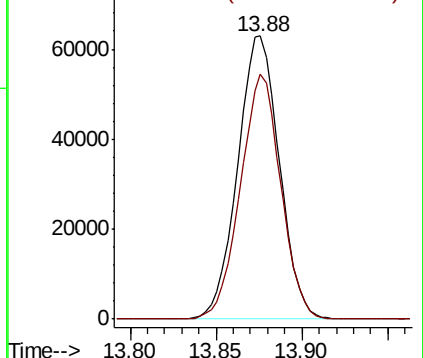
117 100

201 83.5 47.8 143.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#87

1,2-Dichlorobenzene

Concen: 19.042 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

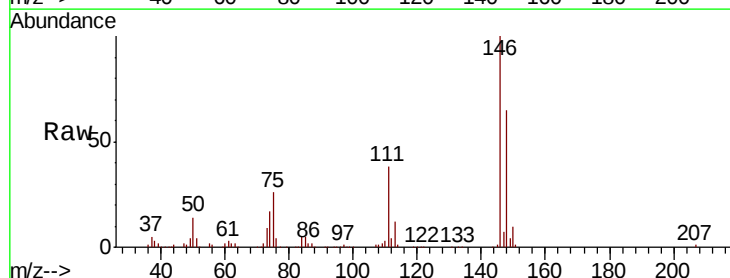
Tgt Ion:146 Resp: 309077

Ion Ratio Lower Upper

146 100

111 38.4 20.8 62.2

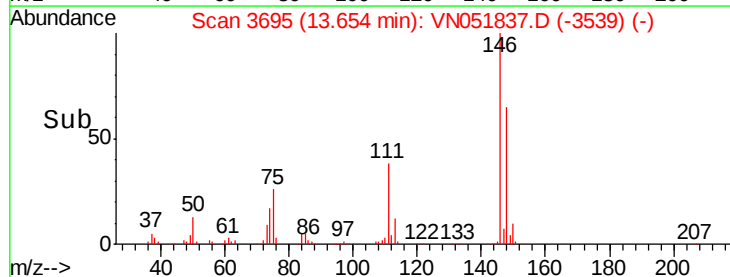
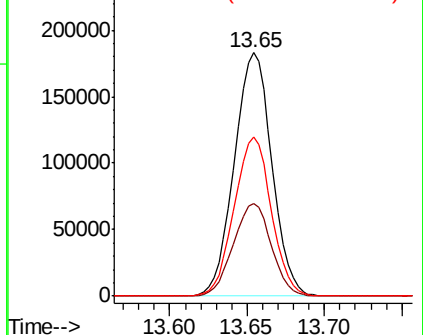
148 64.6 33.2 99.6

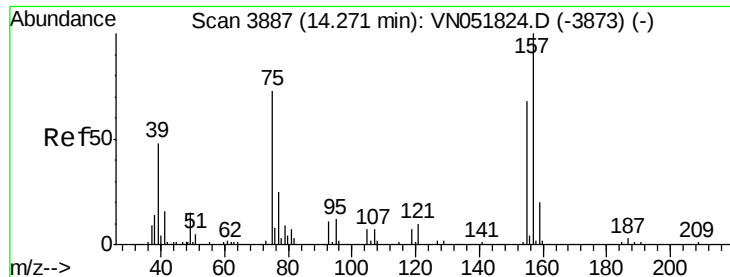


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,2-Dibromo-3-Chloropropane

Concen: 18.836 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

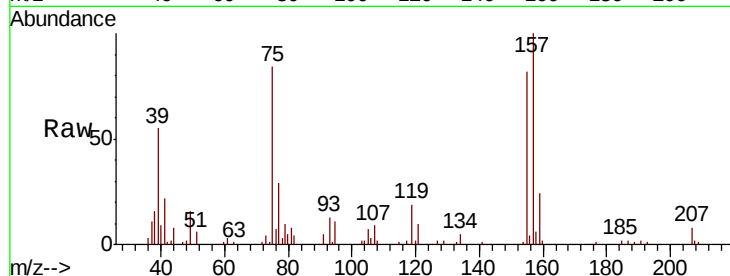
Tot Ion: 75 Resp: 21309

Ion Ratio Lower Upper

75 100

155 102.7 57.0 85.6#

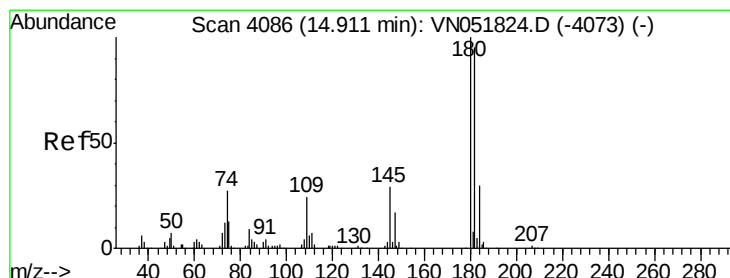
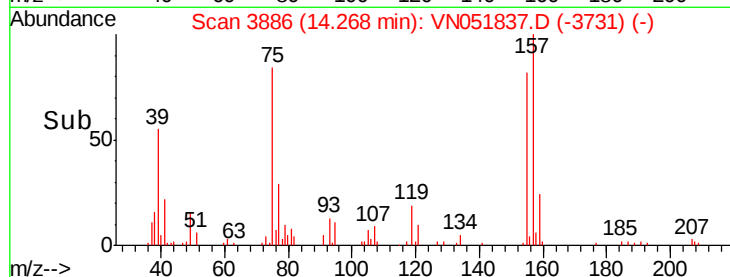
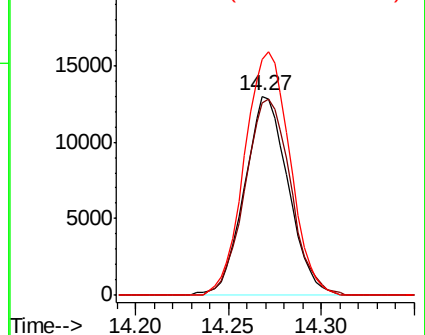
157 126.4 87.4 131.0



Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-3873) (-)

Ion 155.00 (154.70 to 155.70): VN051824.D (-3873) (-)

Ion 157.00 (156.70 to 157.70): VN051824.D (-3873) (-)



#89

1,2,4-Trichlorobenzene

Concen: 18.672 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

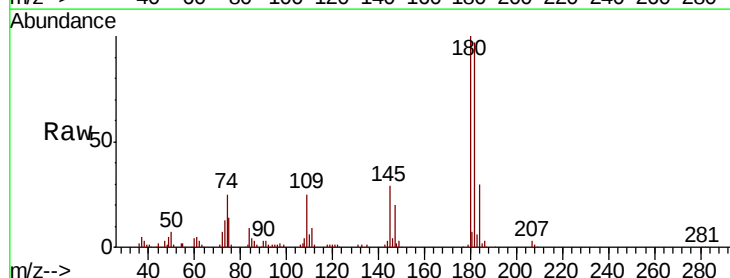
Tgt Ion: 180 Resp: 117240

Ion Ratio Lower Upper

180 100

182 96.8 77.7 116.5

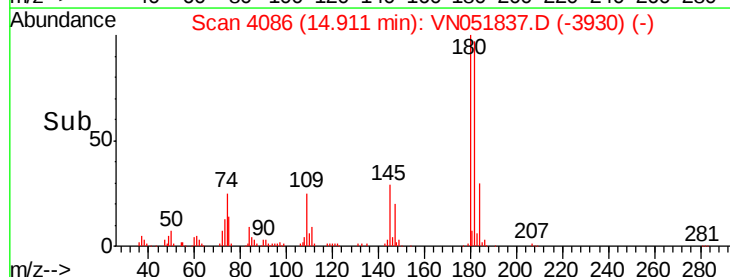
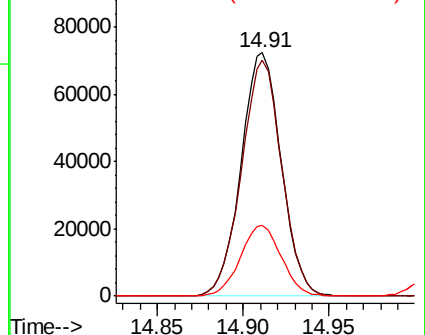
145 29.7 23.4 35.2

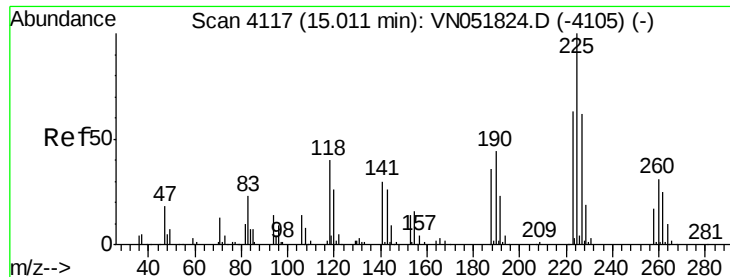


Abundance Ion 180.00 (179.70 to 180.70): VN051824.D (-4073) (-)

Ion 182.00 (181.70 to 182.70): VN051824.D (-4073) (-)

Ion 145.00 (144.70 to 145.70): VN051824.D (-4073) (-)





#90

Hexachlorobutadiene

Concen: 18.509 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050EC

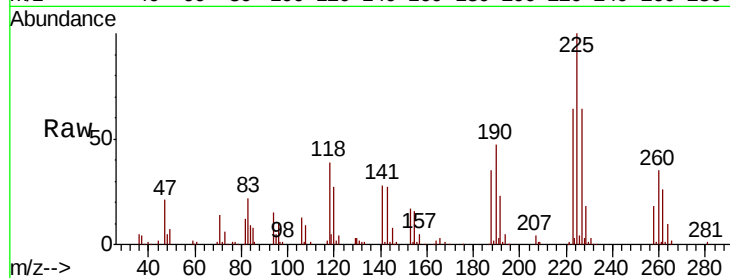
Tot Ion:225 Resp: 96814

Ion Ratio Lower Upper

225 100

223 63.6 0.0 117.0

227 65.7 0.0 127.0

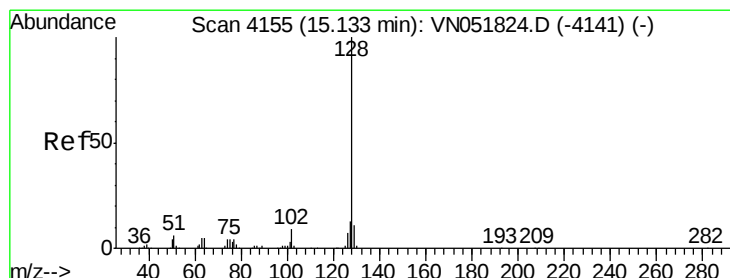
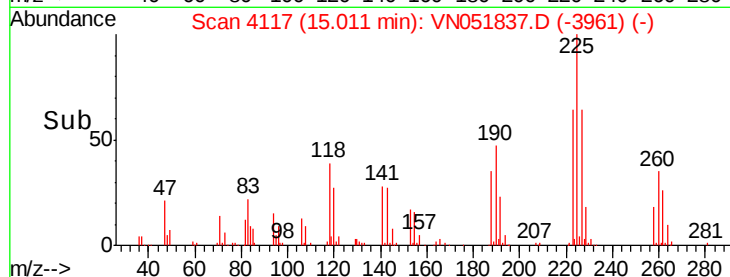
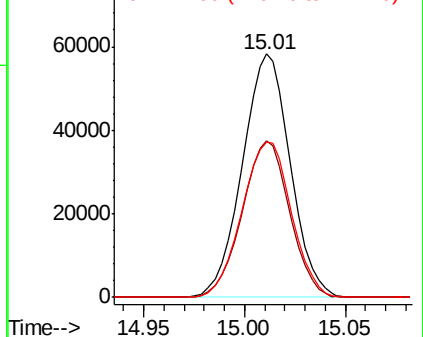


Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 19.476 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051837.D

Acq: 12 Oct 2018 17:04

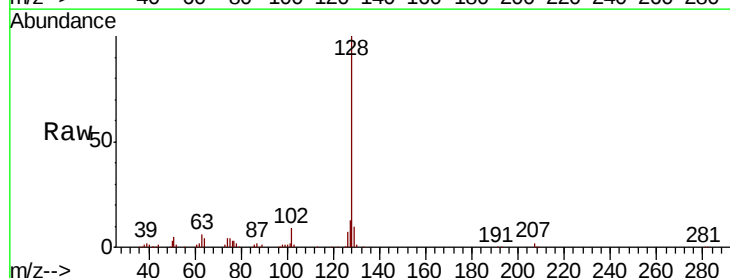
Tgt Ion:128 Resp: 242920

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

129 10.5 8.4 12.6

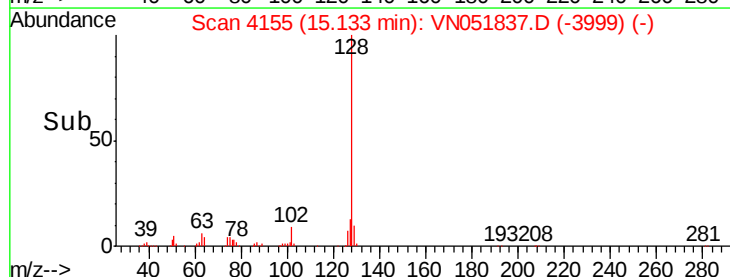
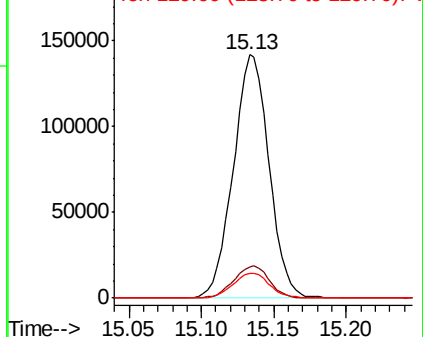


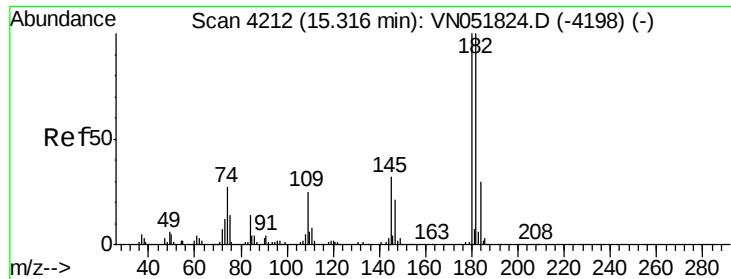
Abundance

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: 17.190 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051837.D
 Acq: 12 Oct 2018 17:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050EC

Tot Ion:	180	Resp:	126944
Ion	Ratio	Lower	Upper
180	100		
182	98.4	0.0	198.0
145	30.8	0.0	36.8

