

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082418\
 Data File : VN050861.D
 Acq On : 24 Aug 2018 8:04
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Aug 24 14:02:09 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	103344	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	548745	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	487391	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	202357	28.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.03%
60) 4-Bromofluorobenzene	12.40	95	222353	29.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.00%
63) Toluene-d8	10.09	98	700819	30.10	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	146785	20.611	ug/l 99
3) Chloromethane	2.06	50	160214	21.820	ug/l 99
4) Vinyl Chloride	2.18	62	155280	19.864	ug/l 98
5) Bromomethane	2.57	94	90710	19.035	ug/l 98
6) Chloroethane	2.70	64	89147	19.282	ug/l 96
7) Trichlorofluoromethane	3.01	101	201284	19.705	ug/l 100
8) Diethyl Ether	3.41	74	66363	19.368	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	126487	20.354	ug/l 99
10) 1,1-Dichloroethene	3.74	96	108124	19.624	ug/l 97
11) Methyl Iodide	3.95	142	83738	10.329	ug/l 99
12) Methyl Acetate	4.33	43	111279	17.631	ug/l 98
13) Acrolein	3.61	56	12807	32.833	ug/l 100
14) Acrylonitrile	4.99	53	183161	86.966	ug/l 98
15) Acetone	3.82	58	49565	88.552	ug/l 89
16) Carbon Disulfide	4.05	76	338074	20.049	ug/l 100
17) Allyl chloride	4.32	41	167895	19.295	ug/l 94
18) Methylene Chloride	4.55	84	129356	20.345	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	115634	19.602	ug/l 98
20) Diisopropyl ether	5.95	45	355485	19.924	ug/l 96
21) 1,1-Dichloroethane	5.85	63	219382	19.555	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	128246	19.604	ug/l 99
23) tert-Butyl Alcohol	4.78	59	18100	38.461	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	274774	18.286	ug/l 100
25) Chloroform	7.37	83	219906	19.363	ug/l 99
26) Cyclohexane	7.65	56	178475	20.019	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	162240	19.051	ug/l 100
30) 2-Butanone	6.83	43	211342	79.085	ug/l 97
31) 2,2-Dichloropropane	6.82	77	179391	19.057	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	184185	18.375	ug/l 98
33) Carbon Tetrachloride	7.77	117	163911	18.344	ug/l 98
34) Benzene	8.04	78	504692	19.514	ug/l 97
35) Methacrylonitrile	7.18	41	48480	15.933	ug/l 88
36) 1,2-Dichloroethane	8.12	62	150295	17.699	ug/l 99
37) Trichloroethene	8.83	130	130619	19.256	ug/l 95
38) Methylcyclohexane	9.08	83	171649	19.119	ug/l 99
39) 1,2-Dichloropropane	9.12	63	131288	19.270	ug/l 98
40) Dibromomethane	9.21	93	76179	18.091	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	161833	18.220	ug/l	95
42) Vinyl Acetate	5.90	43	1054721	83.872	ug/l	100
43) Ethyl Acetate	6.93	43	88268	15.818	ug/l #	90
44) Isopropyl Acetate	8.16	43	160936	15.569	ug/l	95
45) 1,4-Dioxane	9.20	88	21905	322.022	ug/l	92
46) Methyl methacrylate	9.20	41	77066	15.379	ug/l	97
47) n-amyl Acetate	12.07	43	120602	14.993	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	153504	18.131	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	184069	18.503	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	107221	17.739	ug/l	98
51) Ethyl methacrylate	10.43	69	117535	16.021	ug/l	95
52) 1,3-Dichloropropane	10.71	76	179881	18.123	ug/l	99
53) Dibromochloromethane	10.90	129	122121	17.803	ug/l	99
54) 1,2-Dibromoethane	11.00	107	104024	17.573	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	245928	74.069	ug/l	99
56) Bromoform	12.13	173	80668	16.655	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	451037	79.530	ug/l	97
59) 2-Hexanone	10.75	43	296968	76.755	ug/l	99
61) Tetrachloroethene	10.63	164	119315	18.073	ug/l	98
62) Toluene	10.16	91	528387	19.002	ug/l	100
64) Chlorobenzene	11.43	112	325134	19.282	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	120416	18.308	ug/l	97
66) Ethyl Benzene	11.51	91	522395	18.383	ug/l	100
67) m/p-Xylenes	11.62	106	416234	38.060	ug/l	100
68) o-Xylene	11.95	106	196311	18.867	ug/l	98
69) Styrene	11.96	104	305739	18.329	ug/l	99
70) Isopropylbenzene	12.25	105	524475	18.926	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	133373	17.530	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	152859	23.523	ug/l	58
73) Bromobenzene	12.53	156	136763	18.526	ug/l	98
74) n-propylbenzene	12.59	91	594517	18.421	ug/l	100
75) 2-Chlorotoluene	12.67	91	368796	19.025	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	437156	19.206	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	31120	14.647	ug/l	96
78) 4-Chlorotoluene	12.77	91	355594	18.511	ug/l	98
79) tert-butylbenzene	12.99	119	368606	18.942	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	435600	18.889	ug/l	99
81) sec-Butylbenzene	13.17	105	495649	18.750	ug/l	100
82) p-Isopropyltoluene	13.29	119	419522	18.600	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	228391	17.768	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	213956	17.614	ug/l	99
85) n-Butylbenzene	13.61	91	308525	16.855	ug/l	99
86) Hexachloroethane	13.87	117	79663	17.674	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	224372	17.858	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	17349	14.637	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	84375	14.060	ug/l	99
90) Hexachlorobutadiene	15.01	225	75812	19.160	ug/l	97
91) Naphthalene	15.13	128	146806	15.445	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	88390	14.482	ug/l	99

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
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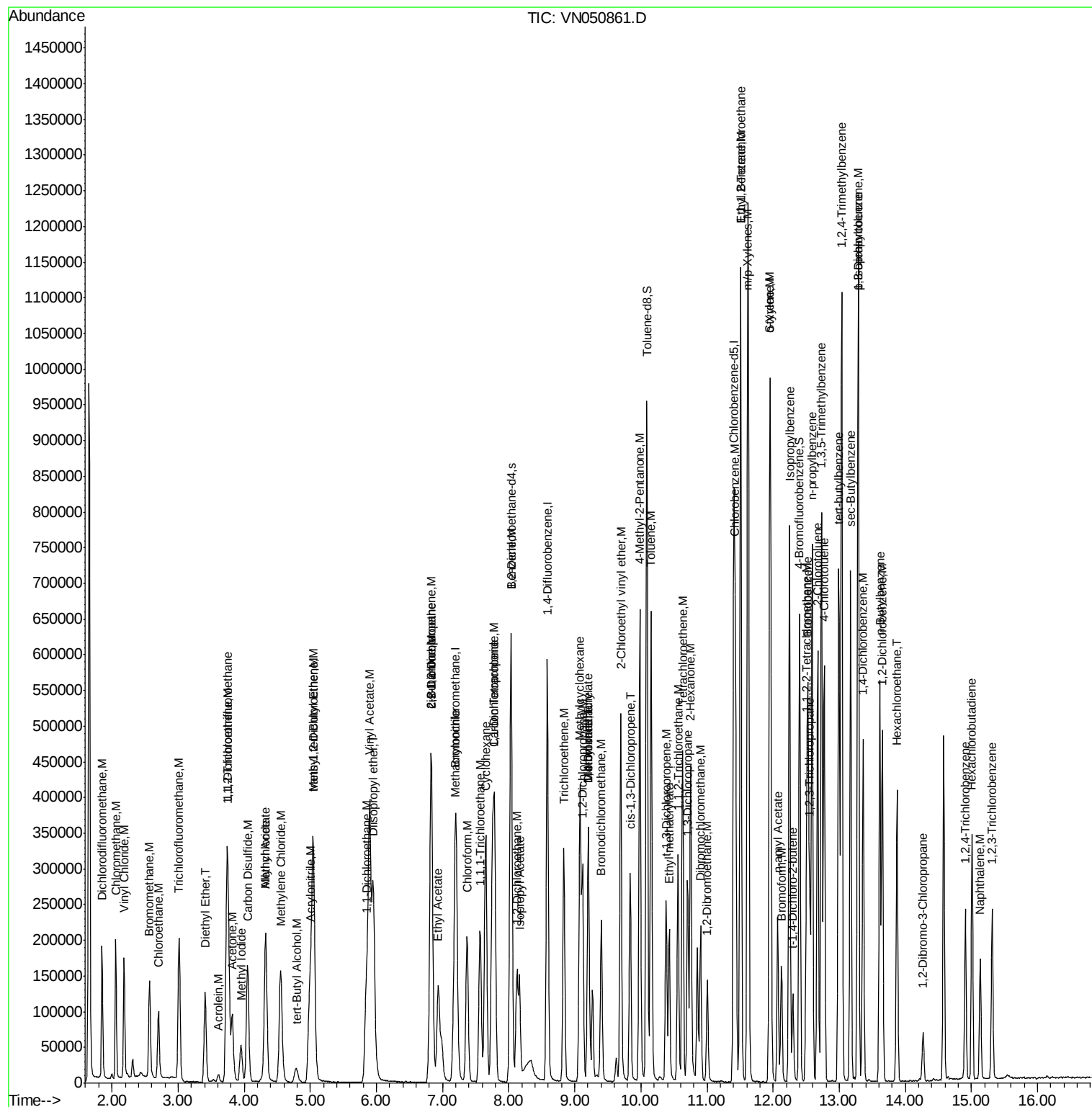
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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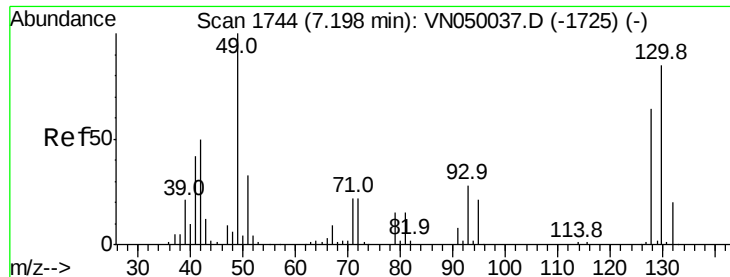
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 24 14:02:09 2018
Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1743

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

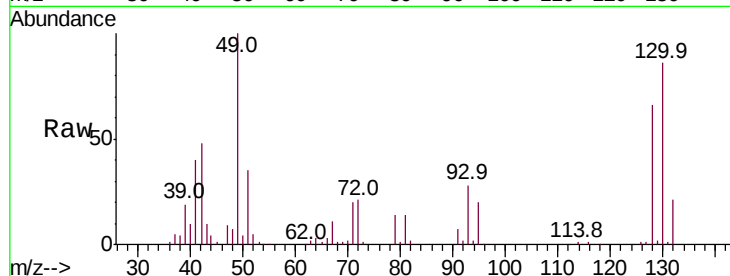
Tot Ion:128 Resp: 103344

Ion Ratio Lower Upper

128 100

49 152.8 0.0 378.3

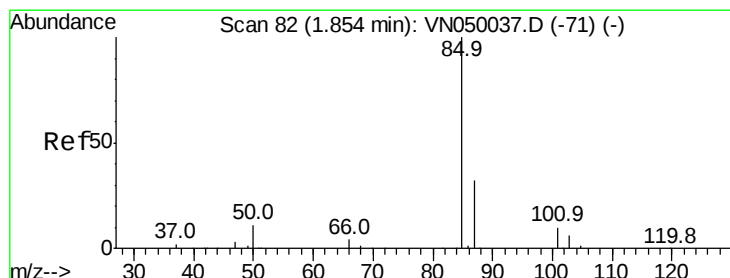
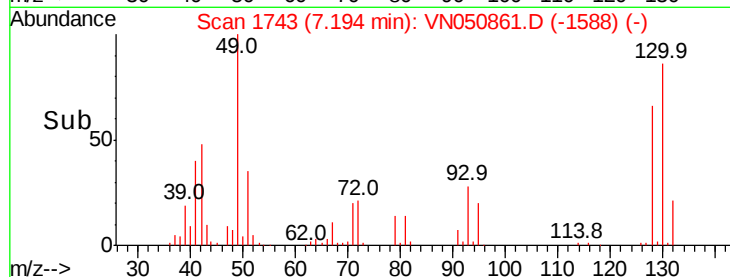
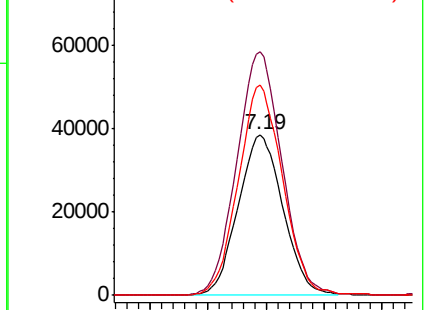
130 129.7 0.0 320.7



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: 20.611 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050861.D

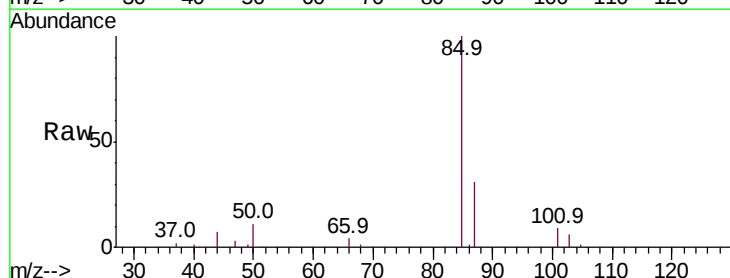
Acq: 24 Aug 2018 8:04

Tgt Ion: 85 Resp: 146785

Ion Ratio Lower Upper

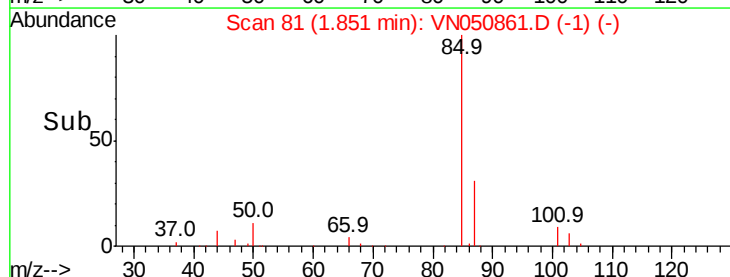
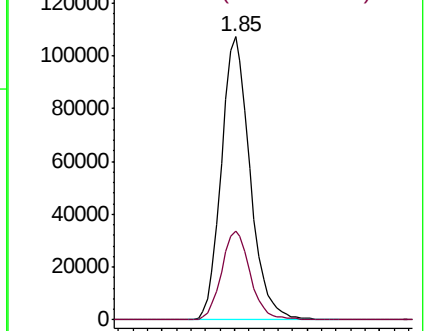
85 100

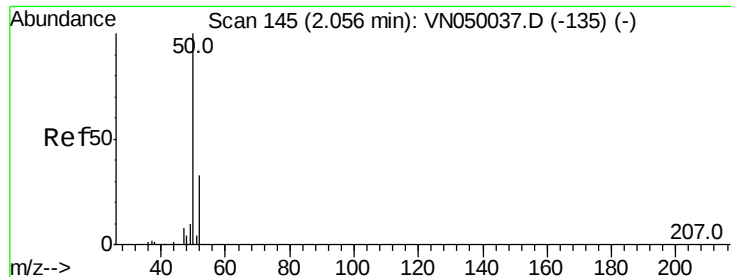
87 31.5 15.4 46.4



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 21.820 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

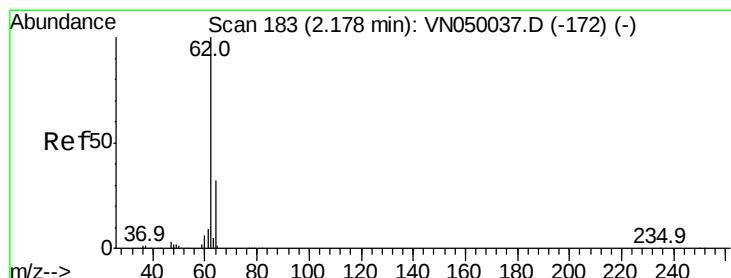
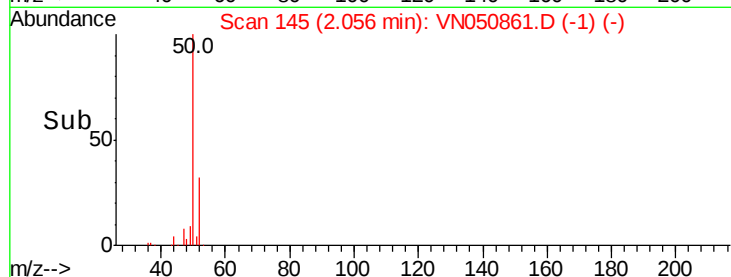
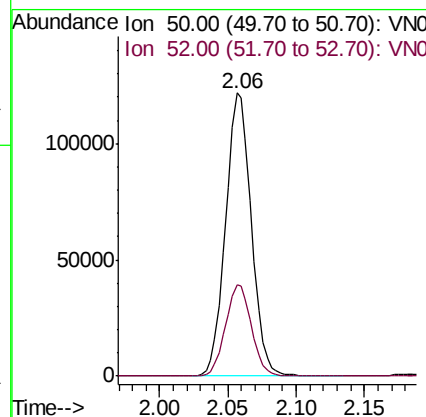
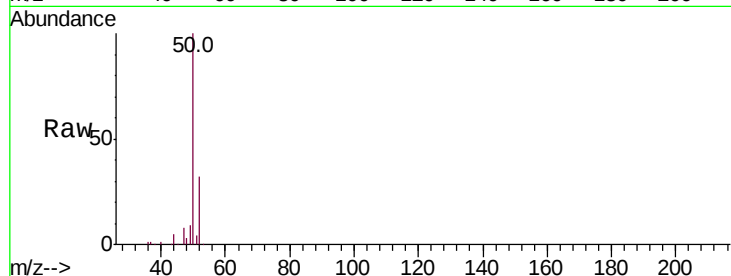
VSTDCCC020

Tot Ion: 50 Resp: 160214

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1



#4

Vinyl Chloride

Concen: 19.864 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.01 min

Lab File: VN050861.D

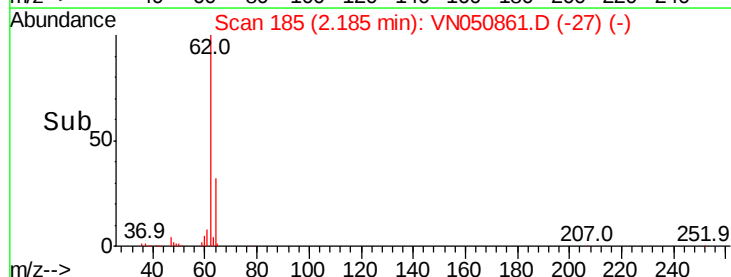
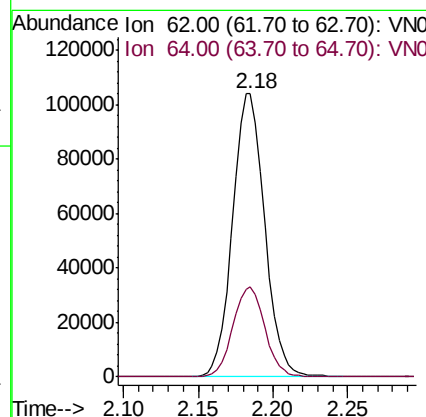
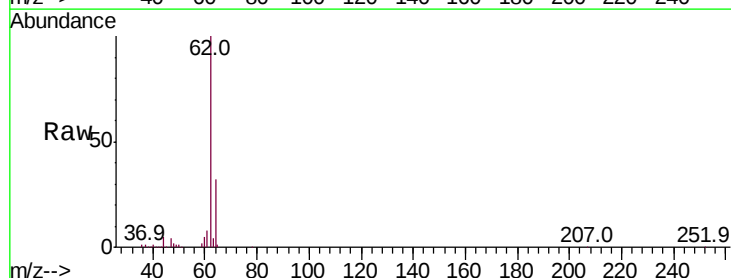
Acq: 24 Aug 2018 8:04

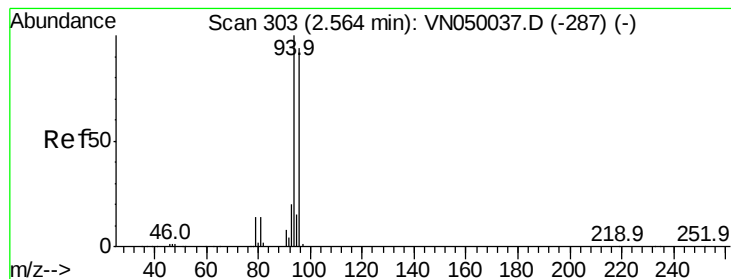
Tgt Ion: 62 Resp: 155280

Ion Ratio Lower Upper

62 100

64 31.7 24.4 36.6





#5

Bromomethane

Concen: 19.035 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

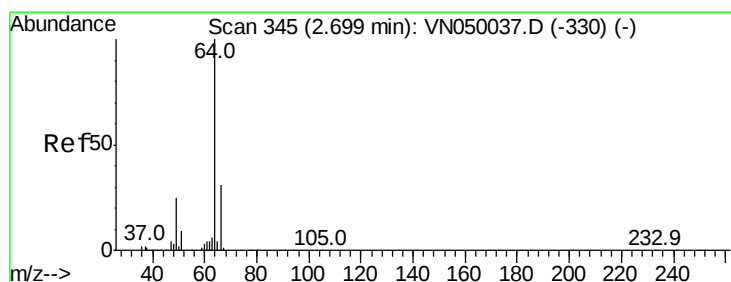
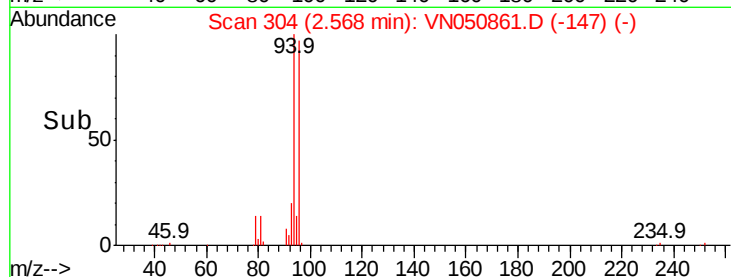
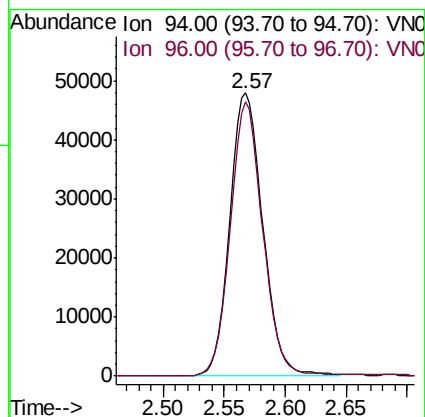
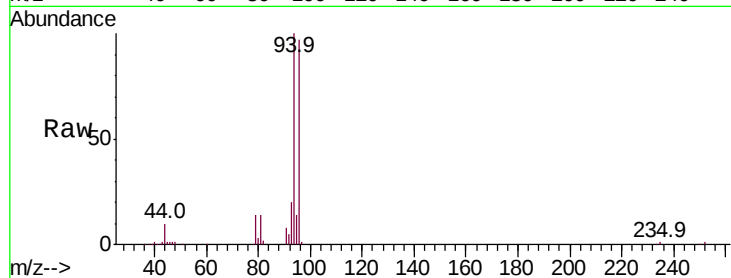
VSTDCCC020

Tot Ion: 94 Resp: 90710

Ion Ratio Lower Upper

94 100

96 97.1 75.9 113.9



#6

Chloroethane

Concen: 19.282 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050861.D

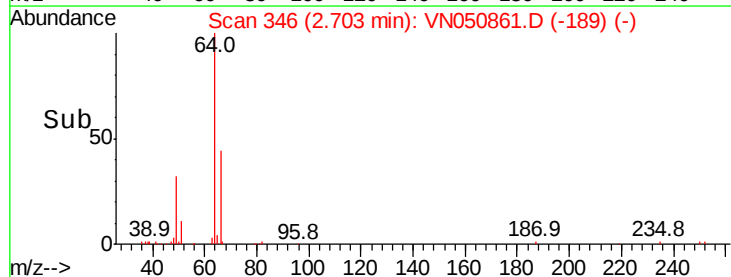
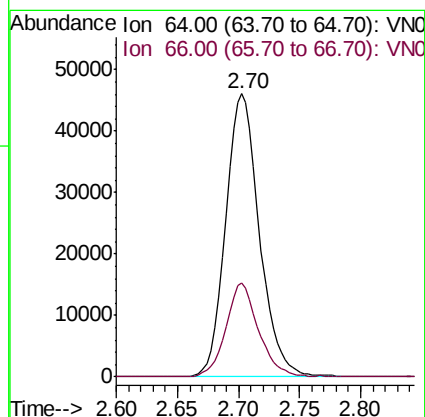
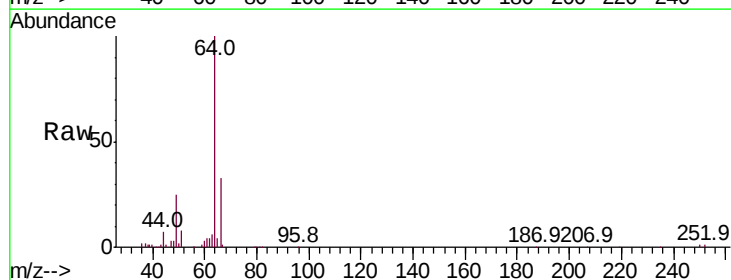
Acq: 24 Aug 2018 8:04

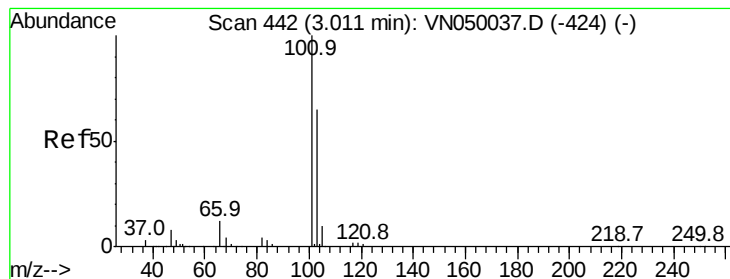
Tgt Ion: 64 Resp: 89147

Ion Ratio Lower Upper

64 100

66 33.3 25.0 37.4



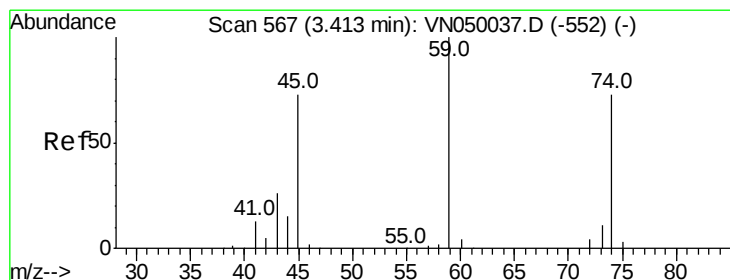
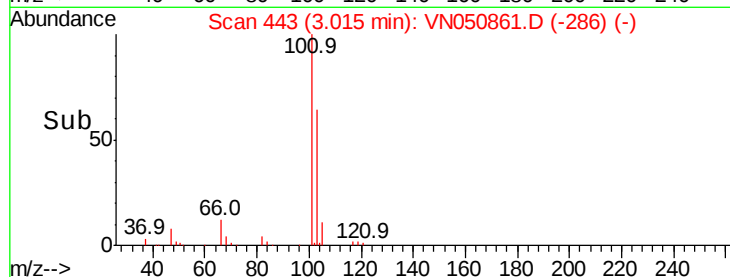
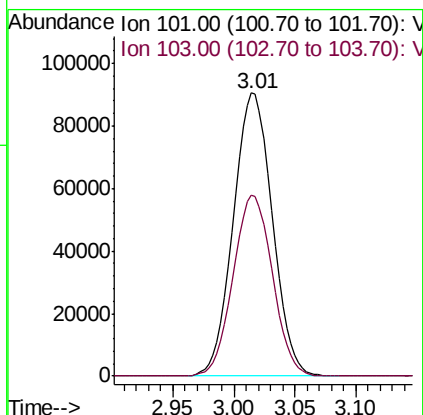
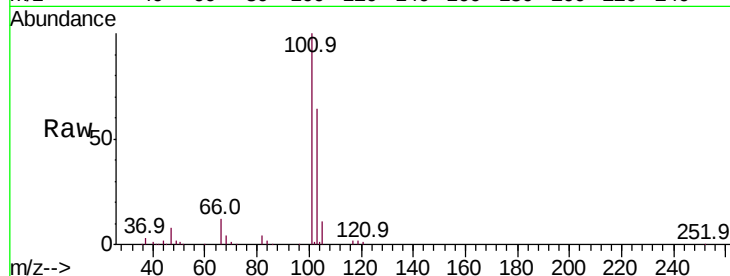


#7

Trichlorofluoromethane
Concen: 19.705 ug/l
RT: 3.01 min Scan# 443
Delta R.T. 0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

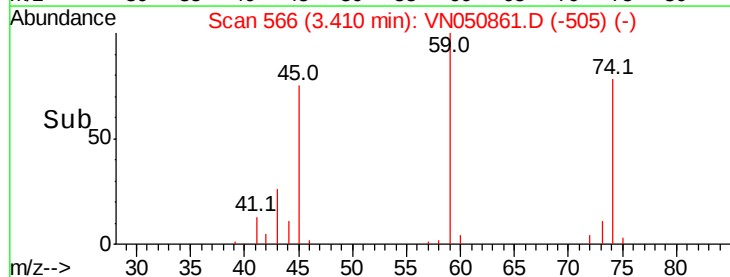
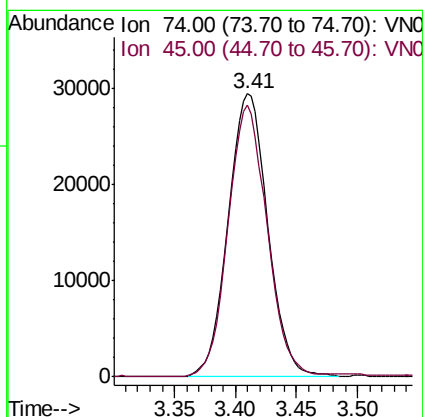
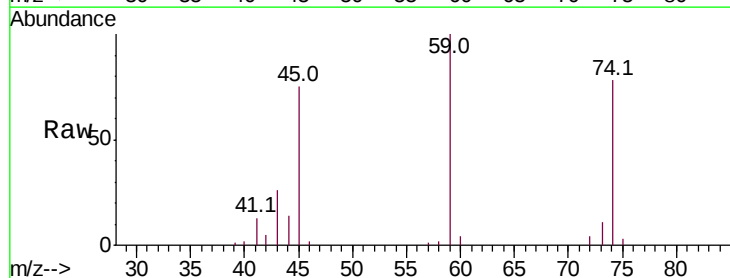
Tot Ion:101 Resp: 201284
Ion Ratio Lower Upper
101 100
103 64.0 51.5 77.3

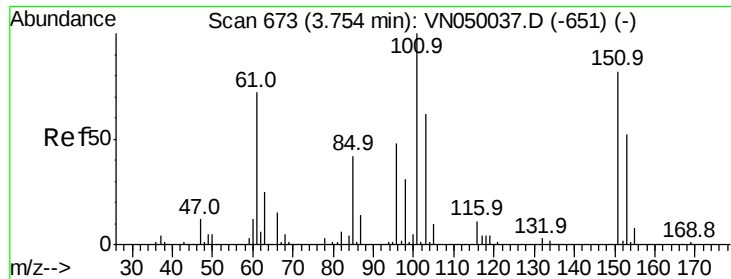


#8

Diethyl Ether
Concen: 19.368 ug/l
RT: 3.41 min Scan# 566
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 74 Resp: 66363
Ion Ratio Lower Upper
74 100
45 94.7 18.7 167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.354 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

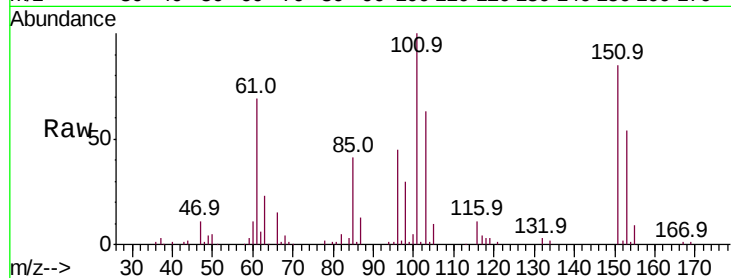
Tot Ion:101 Resp: 126487

Ion Ratio Lower Upper

101 100

85 41.4 0.0 83.0

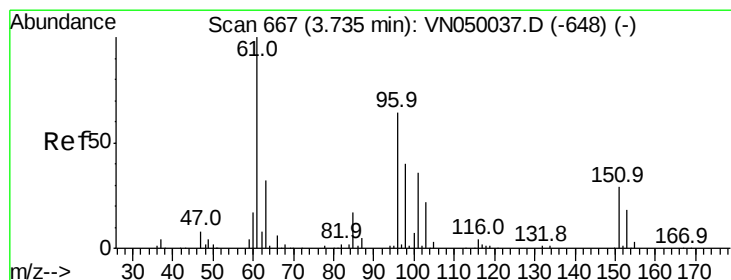
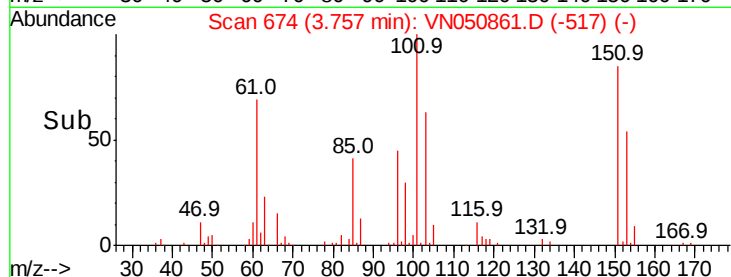
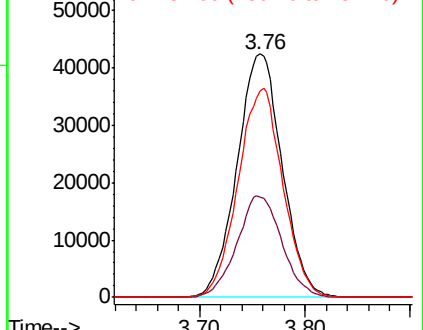
151 85.2 0.0 166.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.624 ug/l

RT: 3.74 min Scan# 668

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

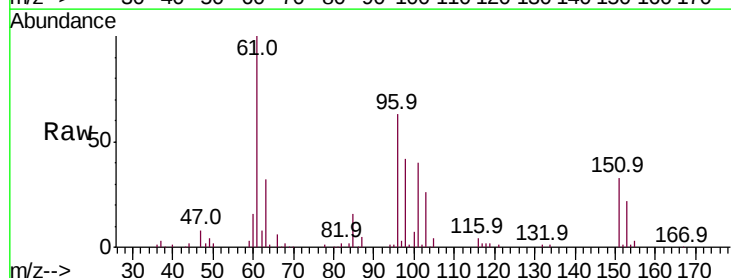
Tgt Ion: 96 Resp: 108124

Ion Ratio Lower Upper

96 100

61 157.9 130.6 195.8

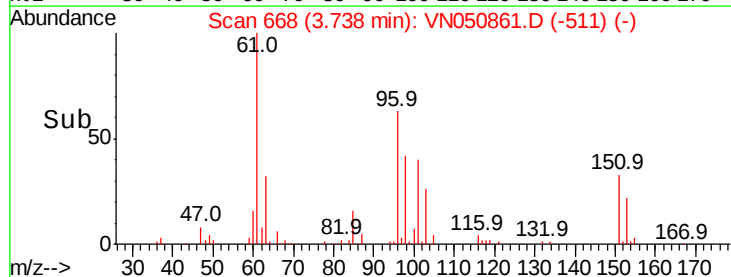
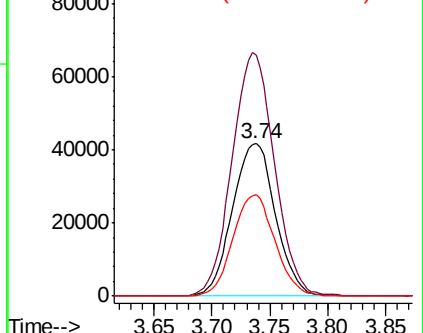
98 66.4 53.5 80.3

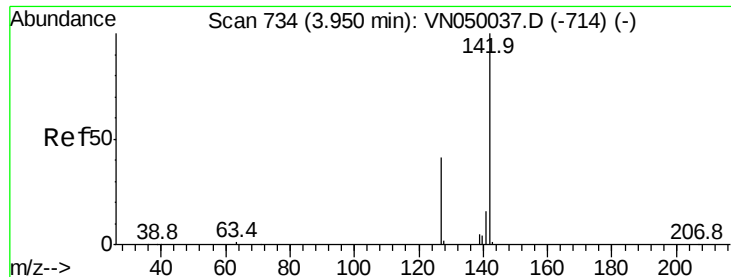


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

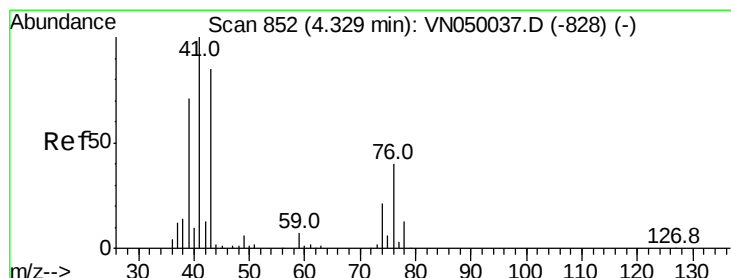
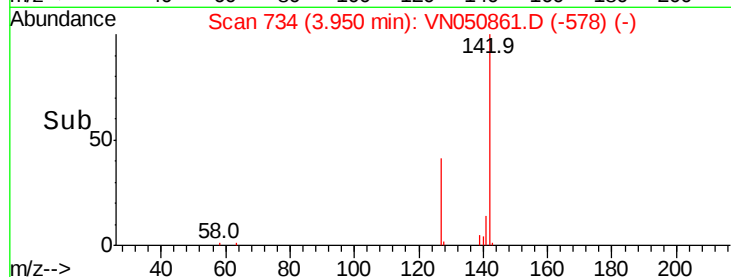
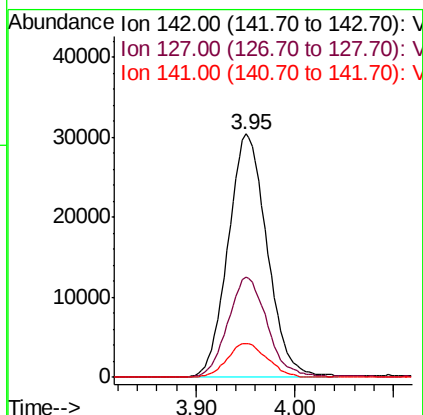
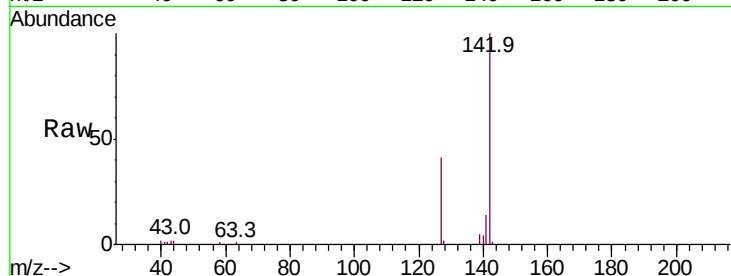




#11
Methvl Iodide
Concen: 10.329 ug/l
RT: 3.95 min Scan# 734
Delta R.T. 0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

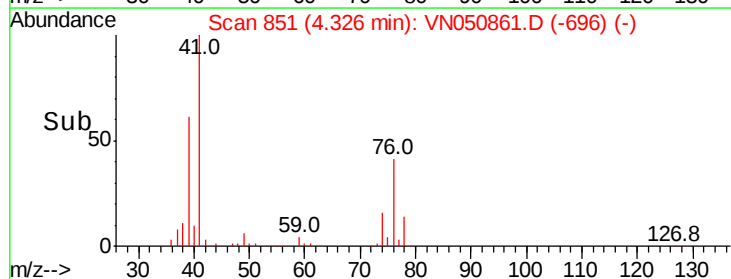
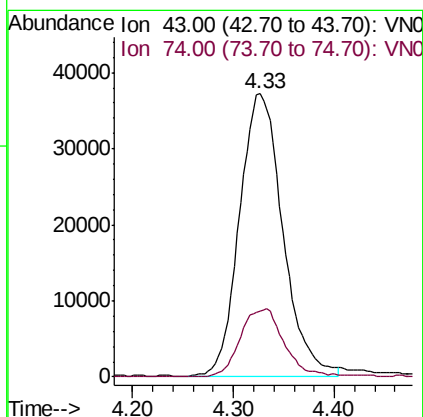
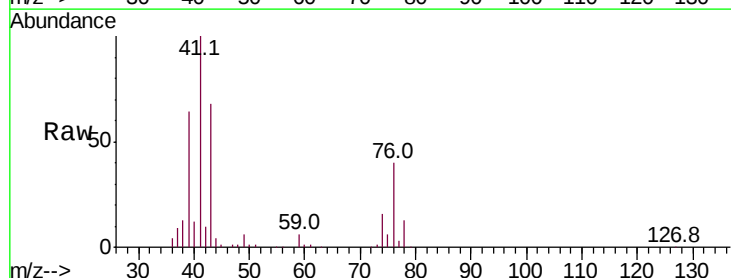
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

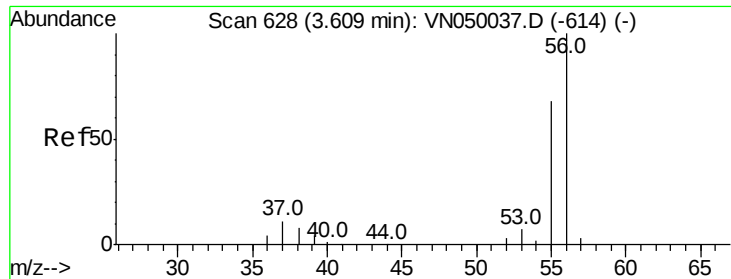
Tot Ion:142 Resp: 83738
Ion Ratio Lower Upper
142 100
127 40.9 20.2 60.5
141 14.1 6.9 20.6



#12
Methyl Acetate
Concen: 17.631 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 43 Resp: 111279
Ion Ratio Lower Upper
43 100
74 23.2 19.3 28.9





#13

Acrolein

Concen: 32.833 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

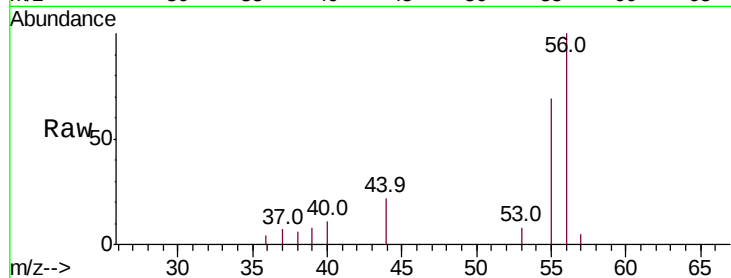
VSTDCCC020

Tot Ion: 56 Resp: 12807

Ion Ratio Lower Upper

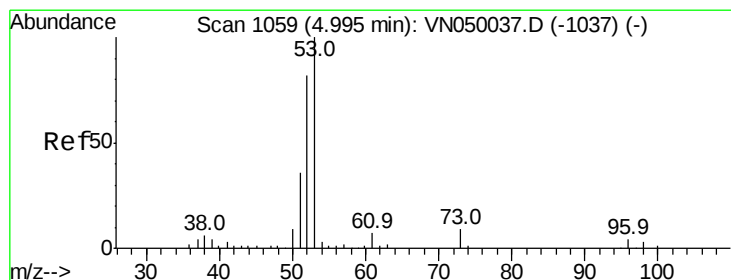
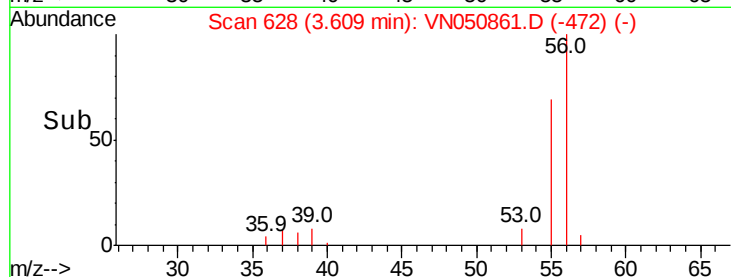
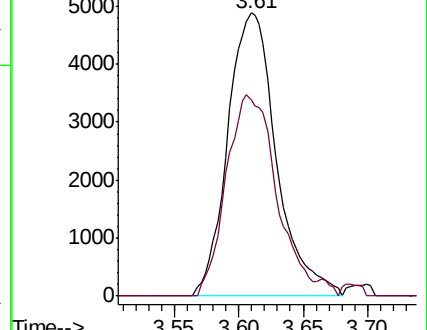
56 100

55 72.9 58.6 88.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 86.966 ug/l

RT: 4.99 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

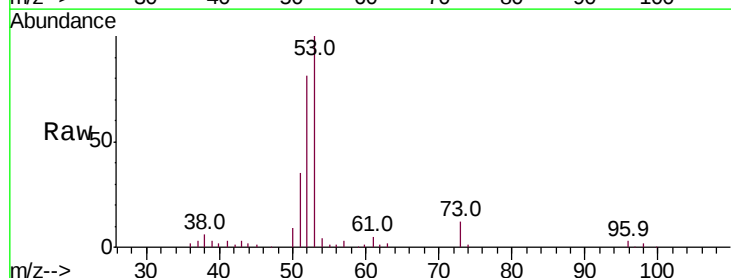
Tgt Ion: 53 Resp: 183161

Ion Ratio Lower Upper

53 100

52 81.5 41.5 124.5

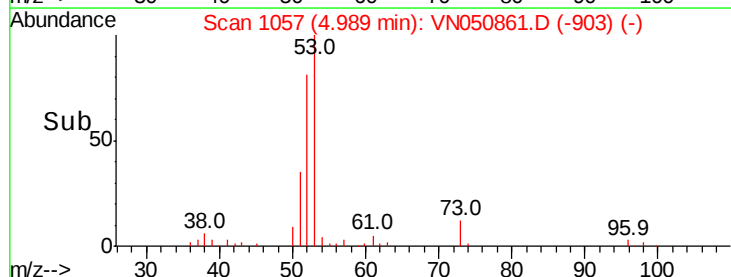
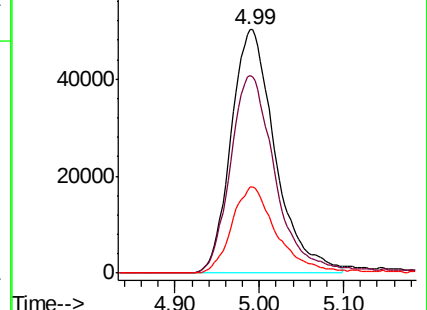
51 35.8 18.7 56.1

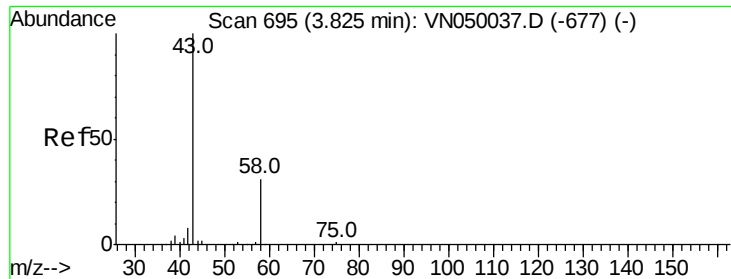


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 88.552 ug/l

RT: 3.82 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

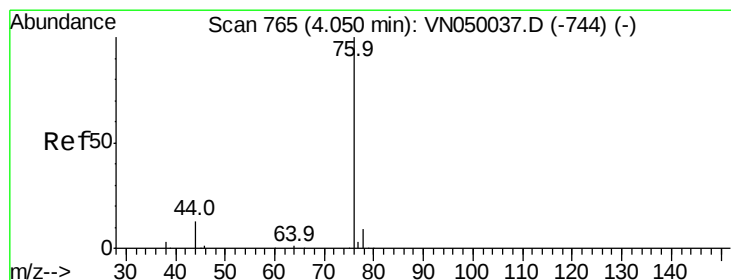
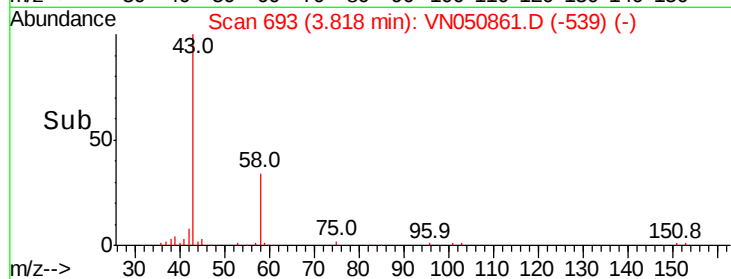
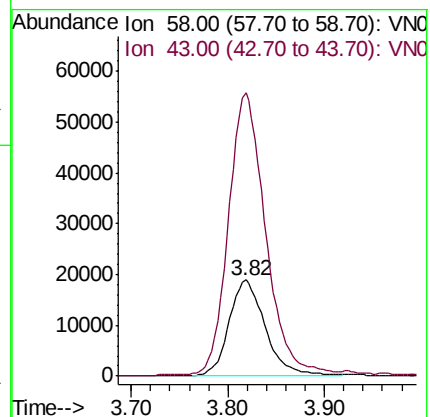
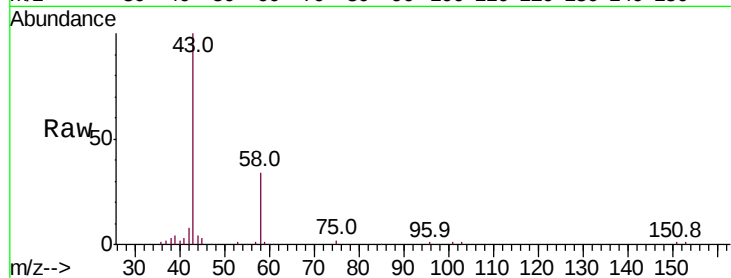
VSTDCCC020

Tot Ion: 58 Resp: 49565

Ion Ratio Lower Upper

58 100

43 291.8 252.0 378.0



#16

Carbon Disulfide

Concen: 20.049 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050861.D

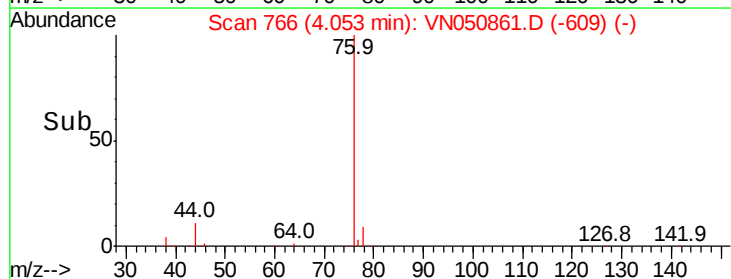
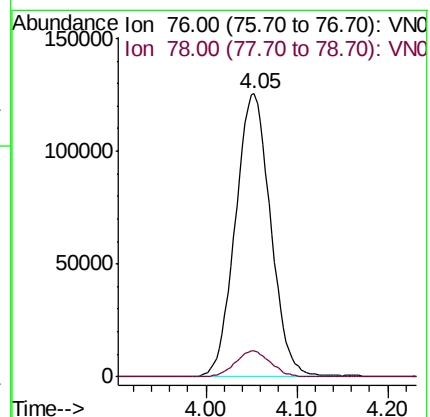
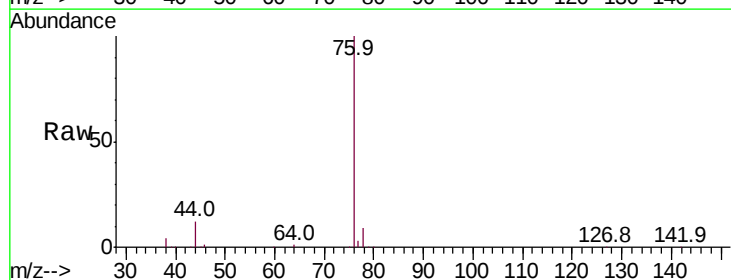
Acq: 24 Aug 2018 8:04

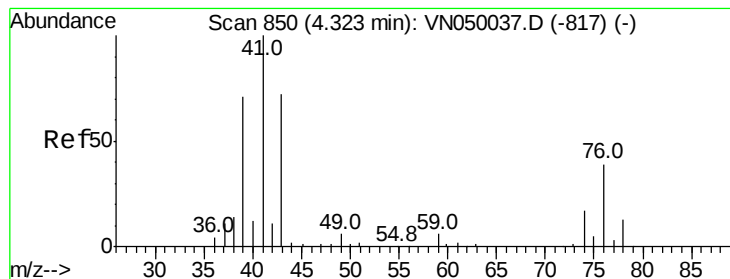
Tgt Ion: 76 Resp: 338074

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#17

Allvl chloride

Concen: 19.295 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

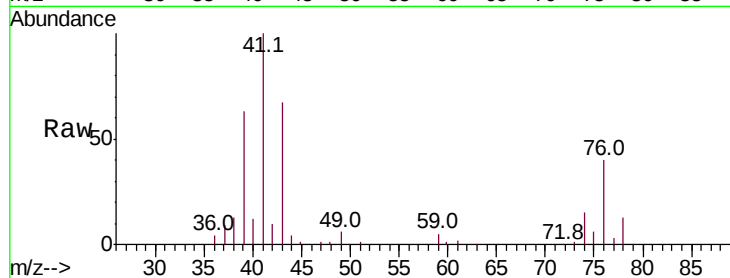
Tot Ion: 41 Resp: 167895

Ion Ratio Lower Upper

41 100

39 62.8 35.4 106.3

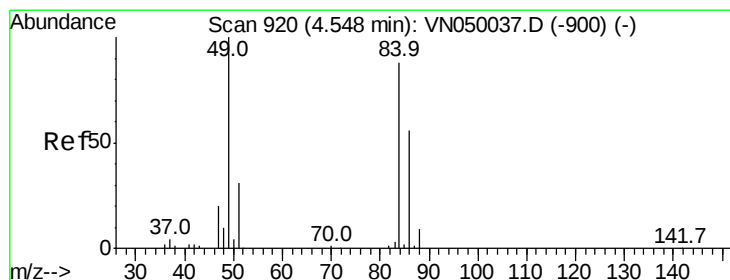
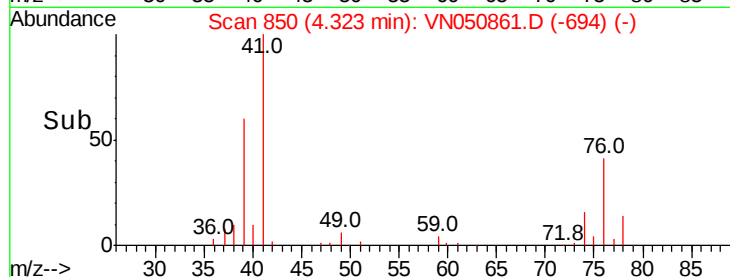
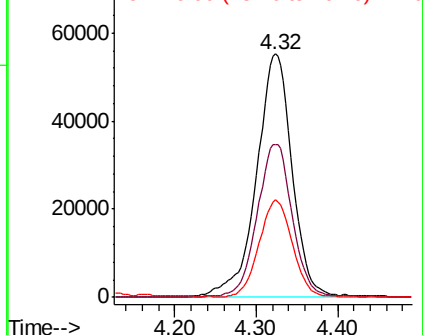
76 39.5 19.7 59.1



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 76.00 (75.70 to 76.70): VNO



#18

Methylene Chloride

Concen: 20.345 ug/l

RT: 4.55 min Scan# 921

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Tgt Ion: 84 Resp: 129356

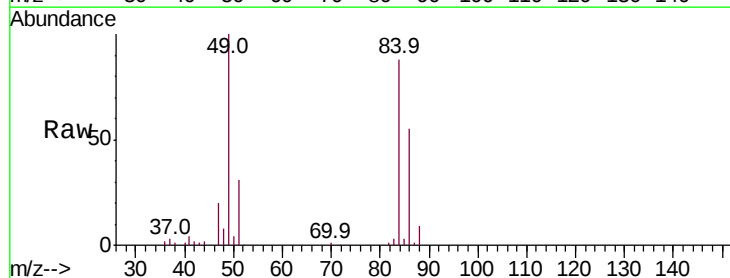
Ion Ratio Lower Upper

84 100

49 113.1 95.1 142.7

51 34.5 28.8 43.2

86 62.5 52.3 78.5

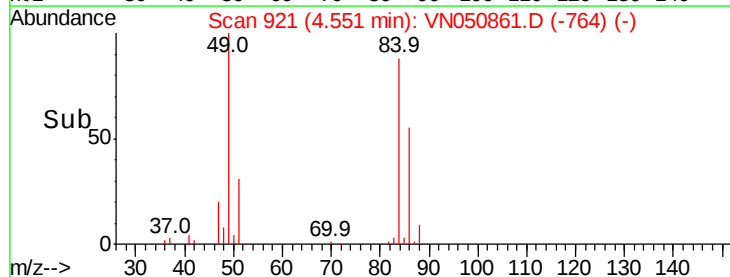
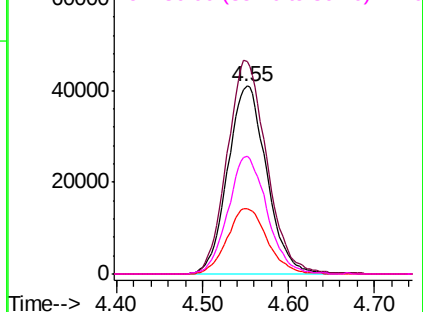


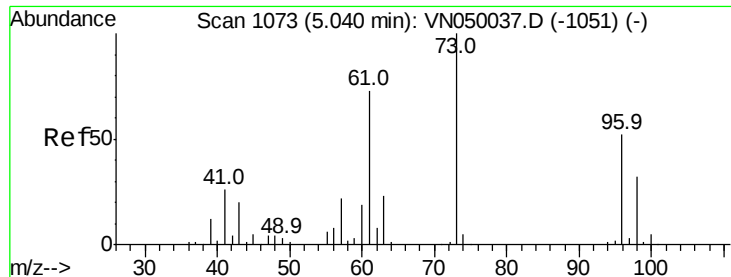
Abundance Ion 84.00 (83.70 to 84.70): VNO

Ion 49.00 (48.70 to 49.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

Ion 86.00 (85.70 to 86.70): VNO





#19

trans-1,2-Dichloroethene

Concen: 19.602 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

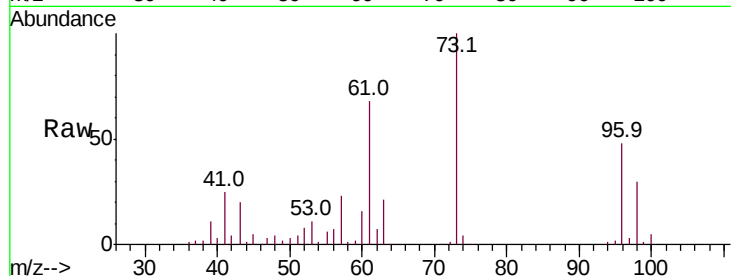
Tot Ion: 96 Resp: 115634

Ion Ratio Lower Upper

96 100

61 141.9 112.1 168.1

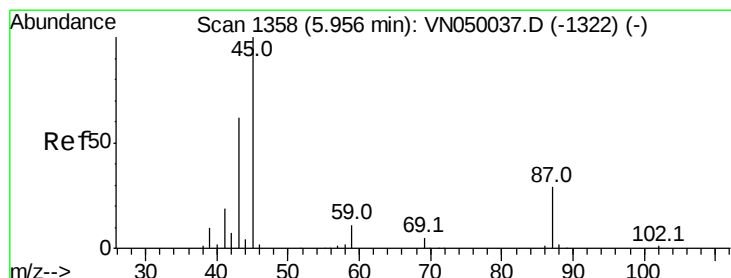
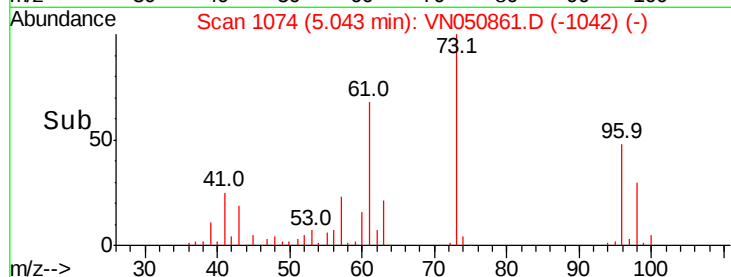
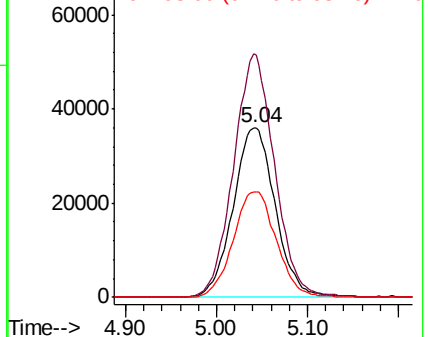
98 62.1 51.3 76.9



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



#20

Diisopropyl ether

Concen: 19.924 ug/l

RT: 5.95 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Tgt Ion: 45 Resp: 355485

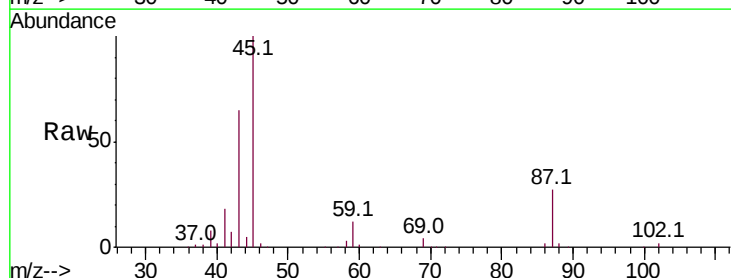
Ion Ratio Lower Upper

45 100

43 62.7 46.6 70.0

87 27.3 22.3 33.5

59 11.7 9.5 14.3

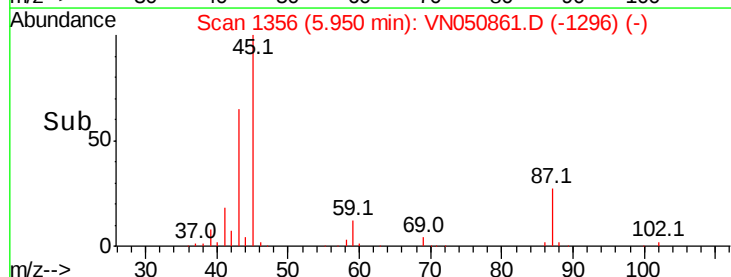
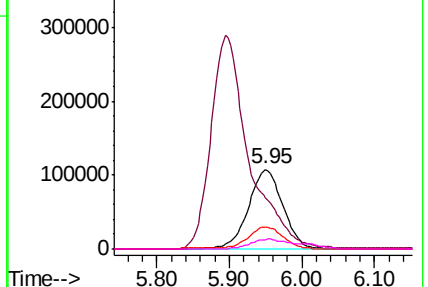


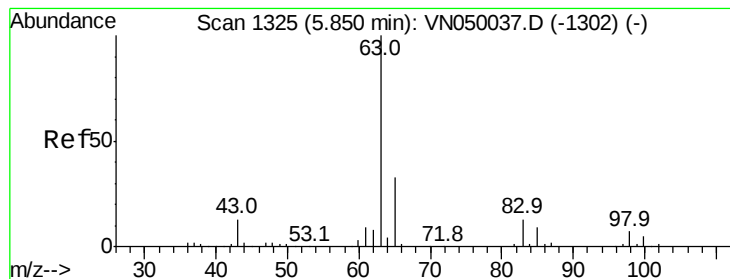
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#21

1,1-Dichloroethane

Concen: 19.555 ug/l

RT: 5.85 min Scan# 1324

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

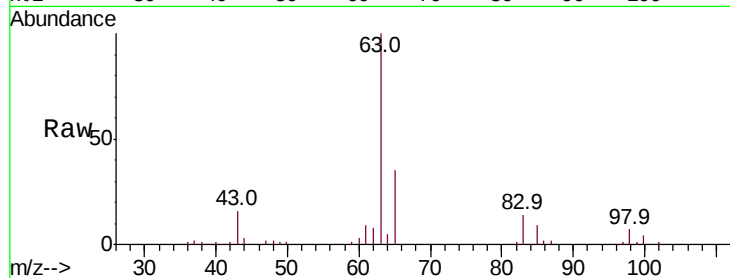
Tot Ion: 63 Resp: 219382

Ion Ratio Lower Upper

63 100

98 6.6 3.5 10.6

100 4.0 2.3 6.8

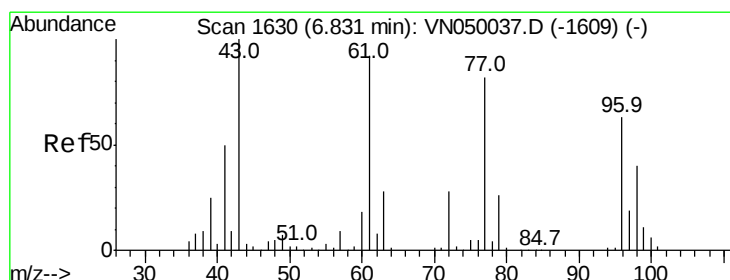
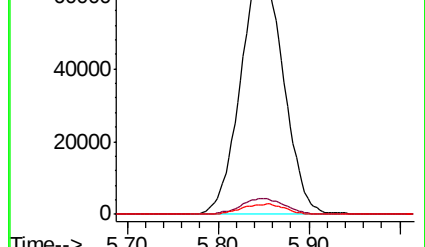
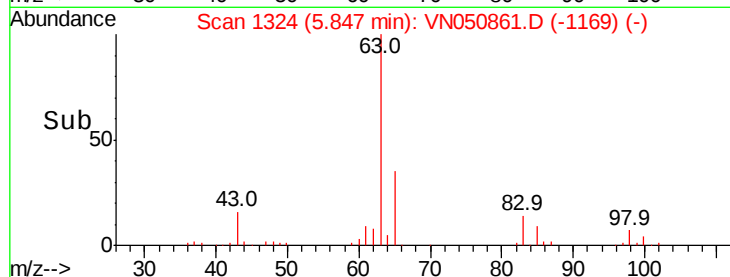


Abundance Ion 63.00 (62.70 to 63.70): VN050037.D (-1302) (-)

Ion 98.00 (97.70 to 98.70): VN050037.D (-1302) (-)

Ion 100.00 (99.70 to 100.70): VN050037.D (-1302) (-)

Time-->



#22

cis-1,2-Dichloroethene

Concen: 19.604 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

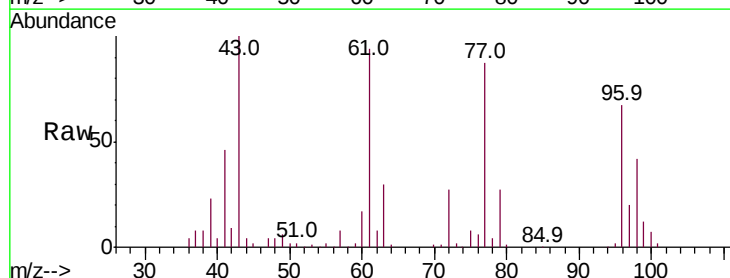
Tgt Ion: 96 Resp: 128246

Ion Ratio Lower Upper

96 100

61 142.4 114.2 171.2

98 63.3 51.7 77.5

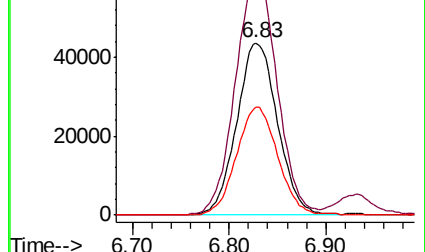
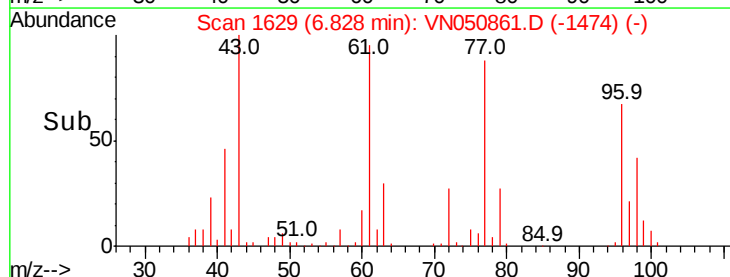


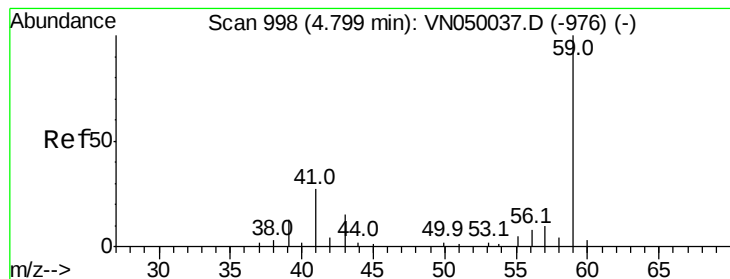
Abundance Ion 96.00 (95.70 to 96.70): VN050037.D (-1609) (-)

Ion 61.00 (60.70 to 61.70): VN050037.D (-1609) (-)

Ion 98.00 (97.70 to 98.70): VN050037.D (-1609) (-)

Time-->





#23

tert-Butyl Alcohol

Concen: 38.461 ug/l

RT: 4.78 min Scan# 992

Delta R.T. -0.02 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampled :

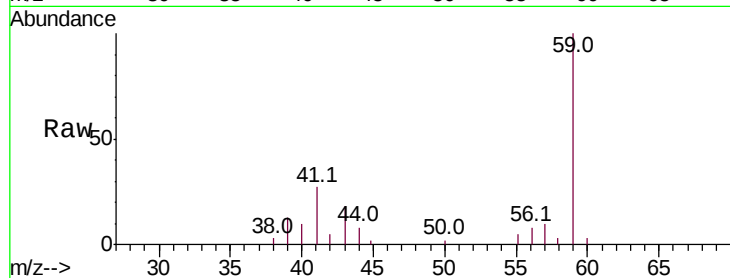
VSTDCCC020

Tot Ion: 59 Resp: 18100

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#

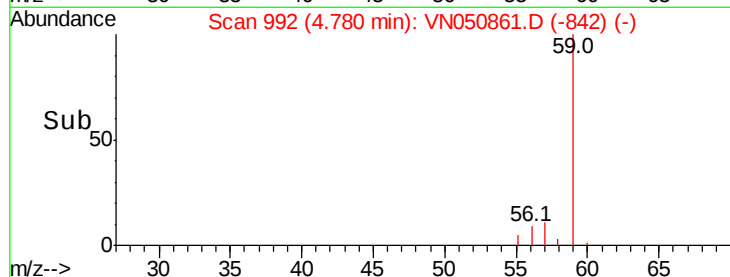


Abundance Ion 59.00 (58.70 to 59.70): VN050037.D (-976) (-)

Ion 52.00 (51.70 to 52.70): VN050037.D (-976) (-)

Time-->

4.78

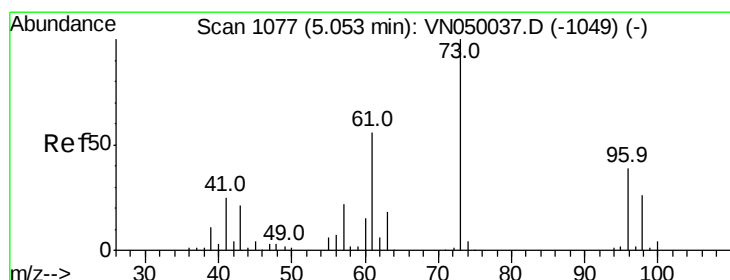


Abundance Ion 59.00 (58.70 to 59.70): VN050861.D (-842) (-)

Ion 52.00 (51.70 to 52.70): VN050861.D (-842) (-)

Time-->

4.78



#24

Methyl tert-Butyl Ether

Concen: 18.286 ug/l

RT: 5.04 min Scan# 1074

Delta R.T. -0.01 min

Lab File: VN050861.D

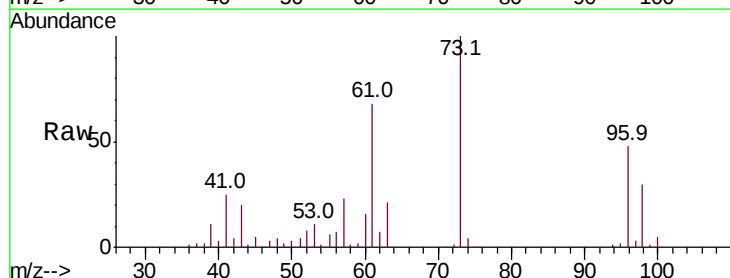
Acq: 24 Aug 2018 8:04

Tgt Ion: 73 Resp: 274774

Ion Ratio Lower Upper

73 100

43 19.3 15.5 23.3

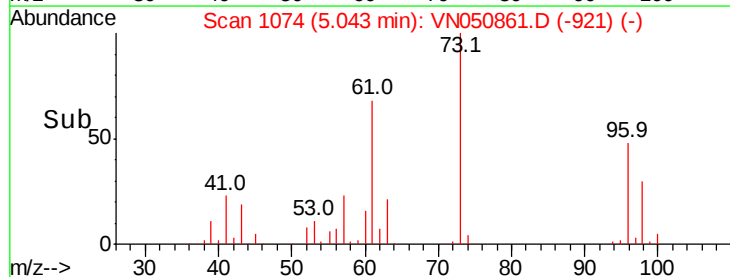


Abundance Ion 73.00 (72.70 to 73.70): VN050037.D (-1049) (-)

Ion 43.00 (42.70 to 43.70): VN050037.D (-1049) (-)

Time-->

5.04

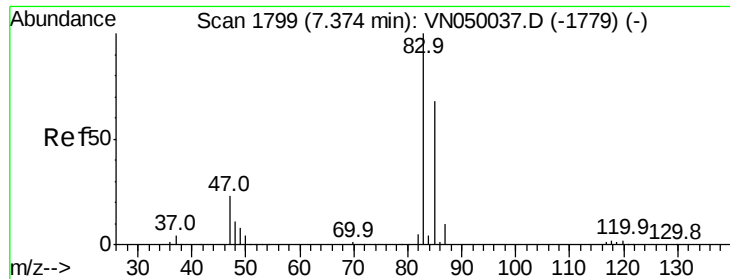


Abundance Ion 73.00 (72.70 to 73.70): VN050861.D (-921) (-)

Ion 43.00 (42.70 to 43.70): VN050861.D (-921) (-)

Time-->

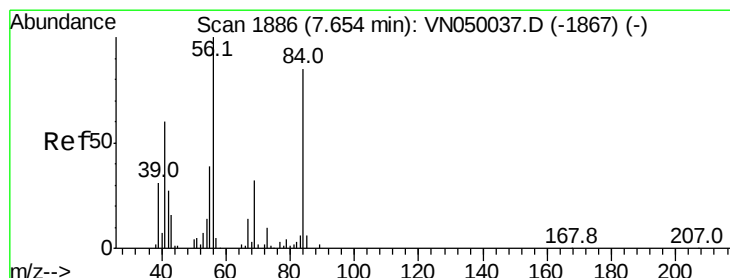
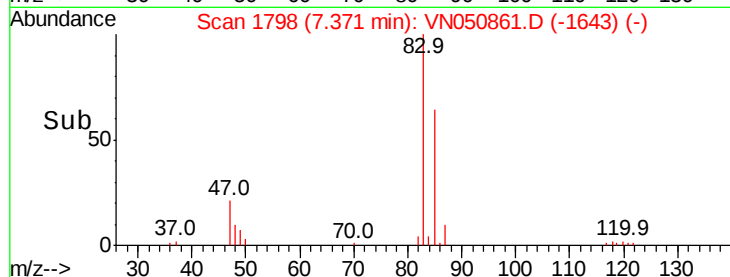
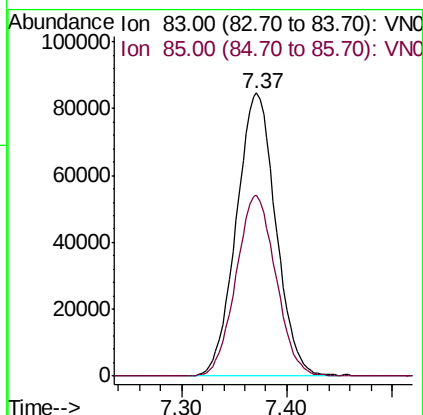
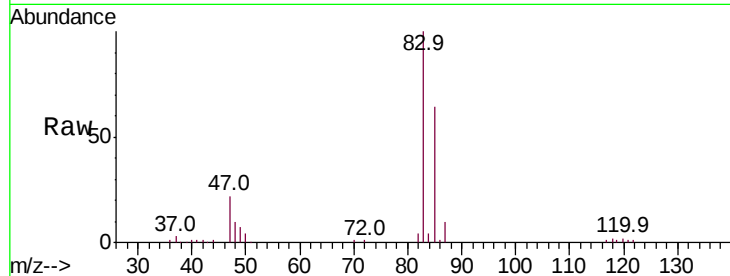
5.04



#25
Chloroform
Concen: 19.363 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

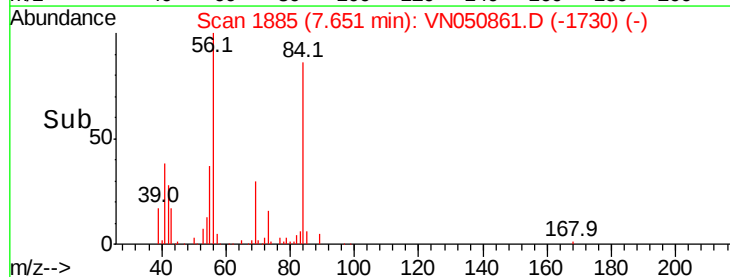
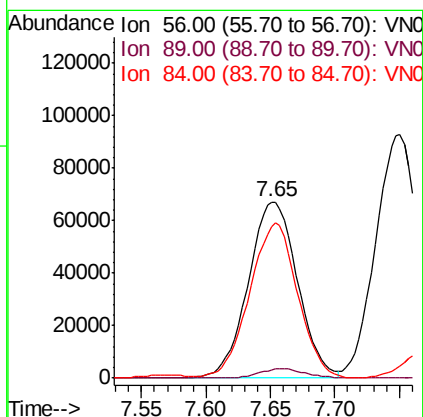
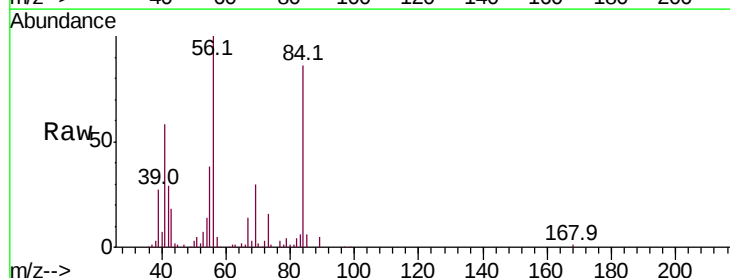
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

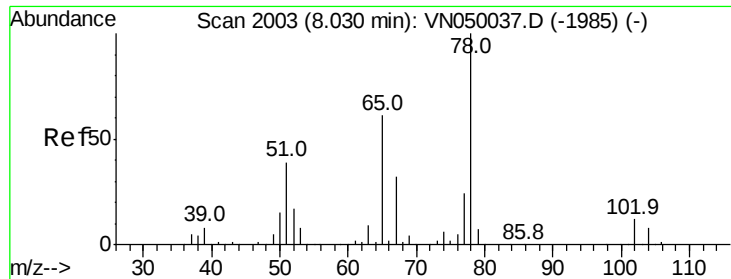
Tot Ion: 83 Resp: 219906
Ion Ratio Lower Upper
83 100
85 64.0 52.1 78.1



#26
Cyclohexane
Concen: 20.019 ug/l
RT: 7.65 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 56 Resp: 178475
Ion Ratio Lower Upper
56 100
89 4.9 3.0 4.4#
84 86.1 69.8 104.8





#27

1,2-Dichloroethane-d4

Concen: 28.807 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

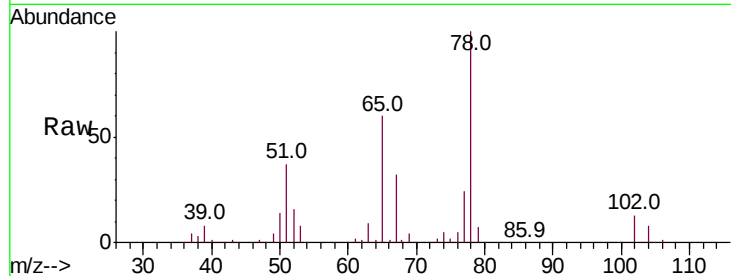
VSTDCCC020

Tot Ion: 65 Resp: 202357

Ion Ratio Lower Upper

65 100

67 54.0 42.7 64.1



Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

100000

80000

60000

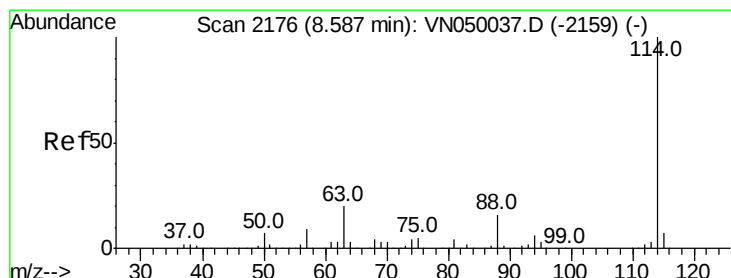
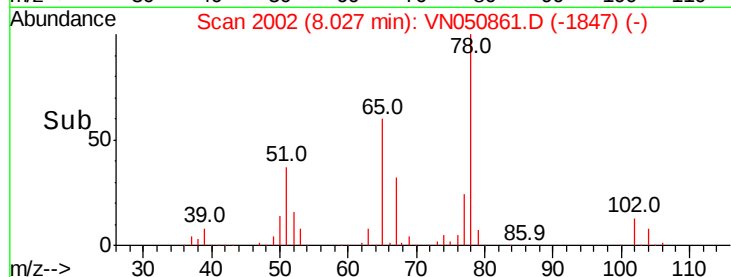
40000

20000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

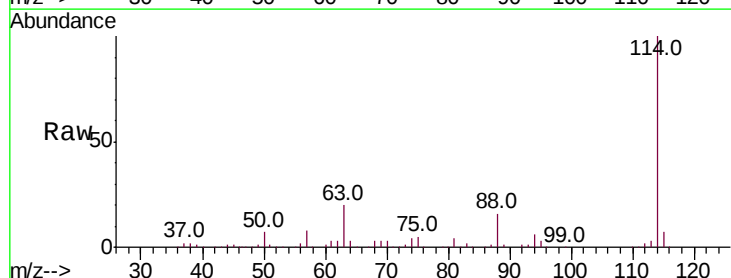
Tgt Ion:114 Resp: 548745

Ion Ratio Lower Upper

114 100

63 19.5 16.2 24.2

88 15.4 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.58

300000

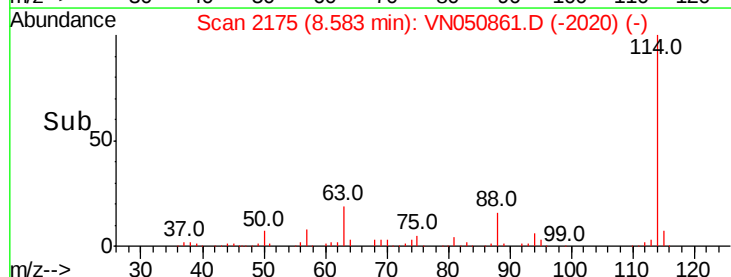
200000

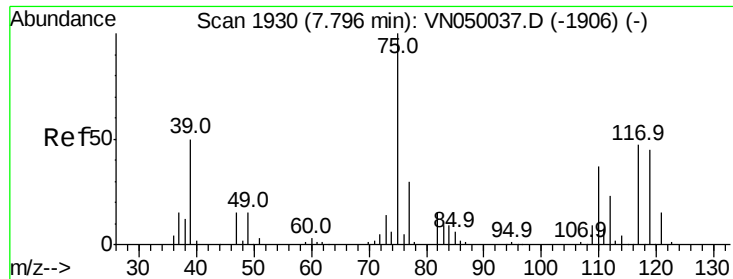
100000

0

8.50 8.55 8.60 8.65

Time-->

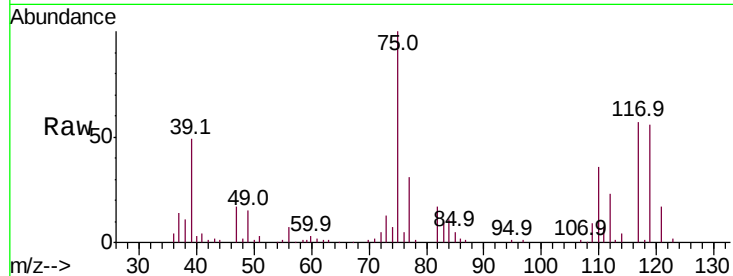




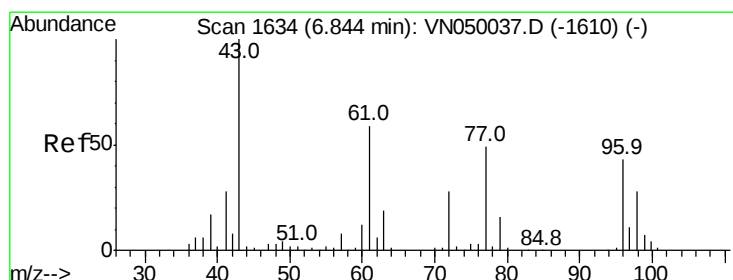
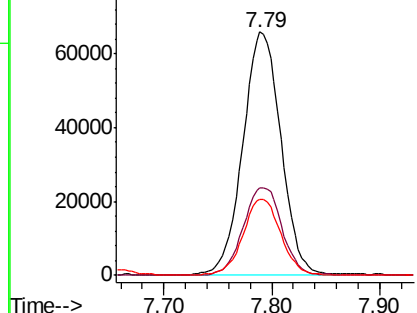
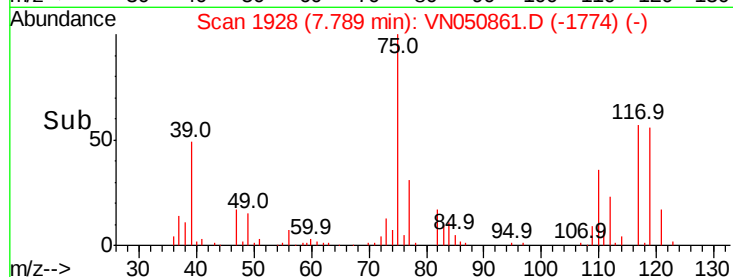
#29
 1,1-Dichloropropene
 Concen: 19.051 ug/l
 RT: 7.79 min Scan# 1928
 Delta R.T. -0.01 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
110	36.3	0.0	73.2
77	31.0	0.0	62.0

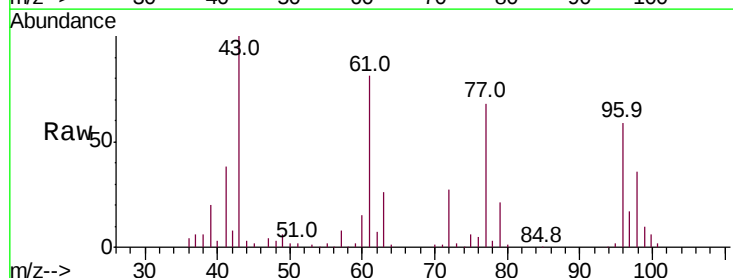


Abundance Ion 75.00 (74.70 to 75.70): VN050861.D (-1774) (-)
 Ion 110.00 (109.70 to 110.70): VN050861.D (-1774) (-)
 Ion 77.00 (76.70 to 77.70): VN050861.D (-1774) (-)

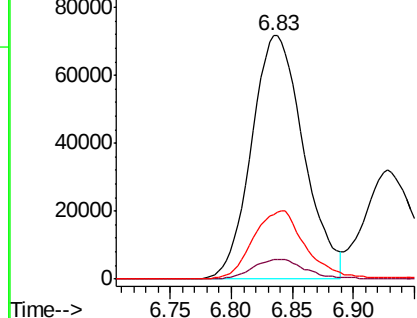
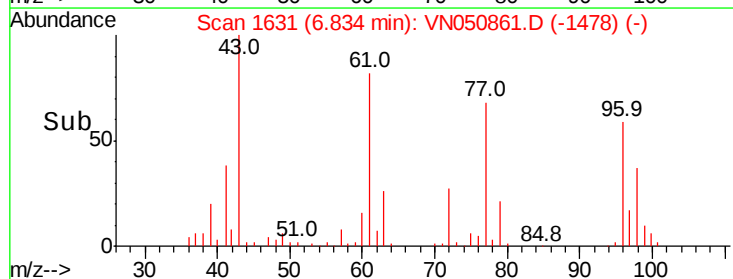


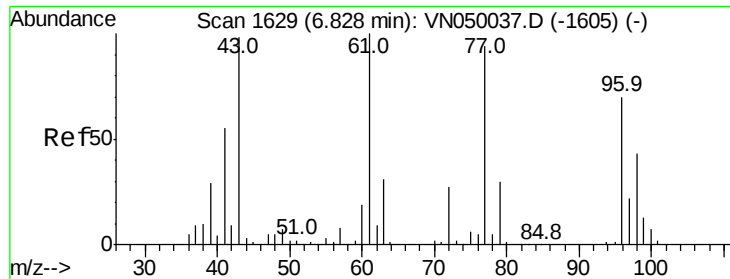
#30
 2-Butanone
 Concen: 79.085 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. -0.01 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.0	6.8	10.2
72	28.7	21.4	32.0



Abundance Ion 43.00 (42.70 to 43.70): VN050861.D (-1478) (-)
 Ion 57.00 (56.70 to 57.70): VN050861.D (-1478) (-)
 Ion 72.00 (71.70 to 72.70): VN050861.D (-1478) (-)





#31

2,2-Dichloropropane

Concen: 19.057 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

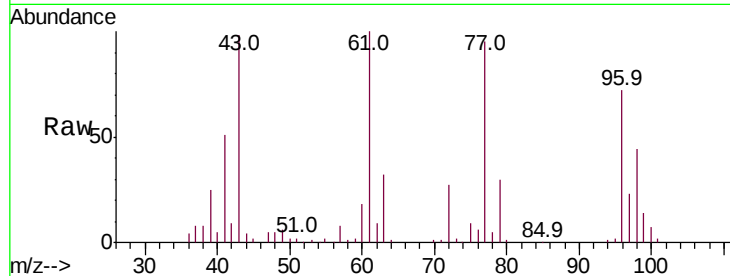
VSTDCCC020

Tot Ion: 77 Resp: 179391

Ion Ratio Lower Upper

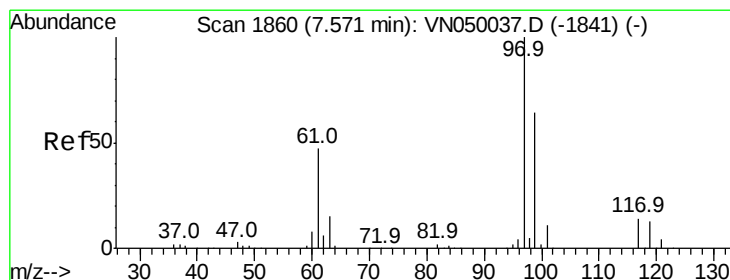
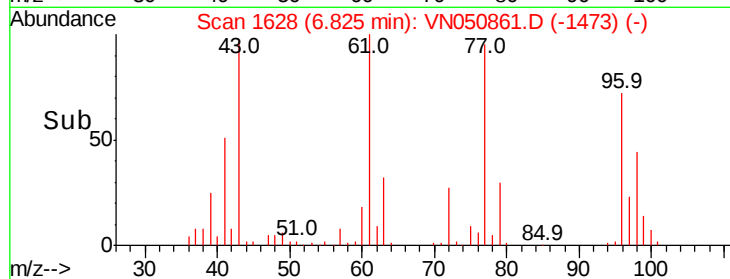
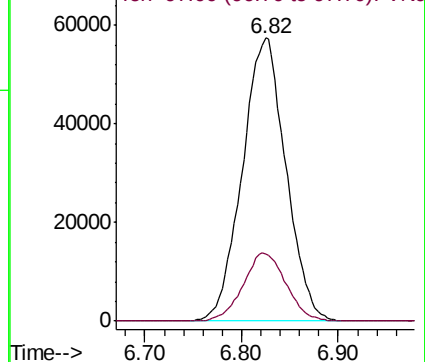
77 100

97 23.6 18.9 28.3



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0



#32

1,1,1-Trichloroethane

Concen: 18.375 ug/l

RT: 7.57 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

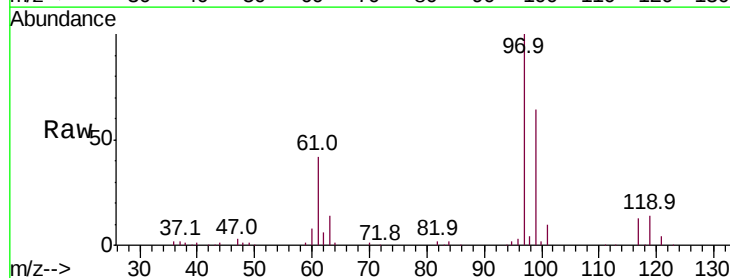
Tgt Ion: 97 Resp: 184185

Ion Ratio Lower Upper

97 100

99 65.8 51.2 76.8

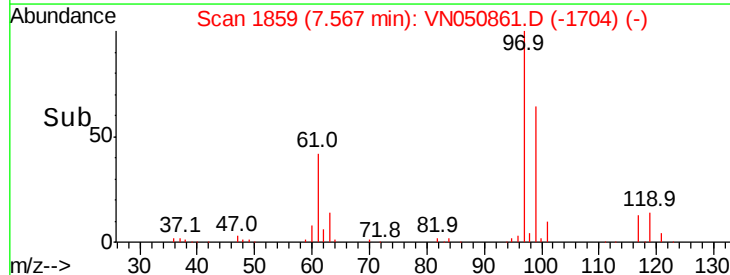
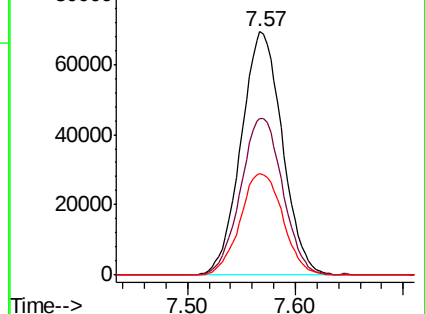
61 43.3 35.3 52.9

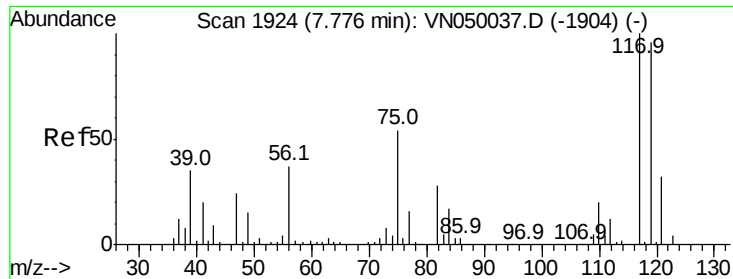


Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#33

Carbon Tetrachloride

Concen: 18.344 ug/l

RT: 7.77 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

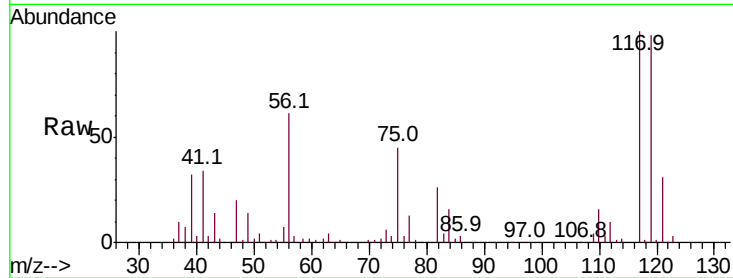
Tot Ion:117 Resp: 163911

Ion Ratio Lower Upper

117 100

119 98.3 76.9 115.3

121 31.1 24.4 36.6

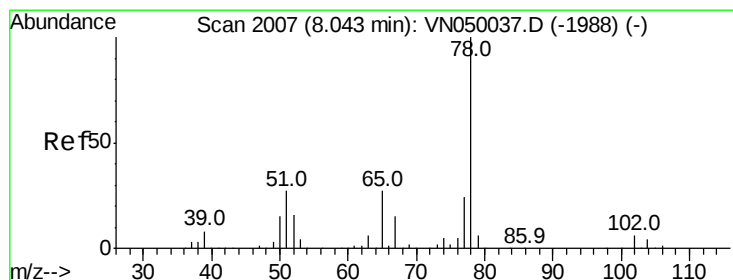
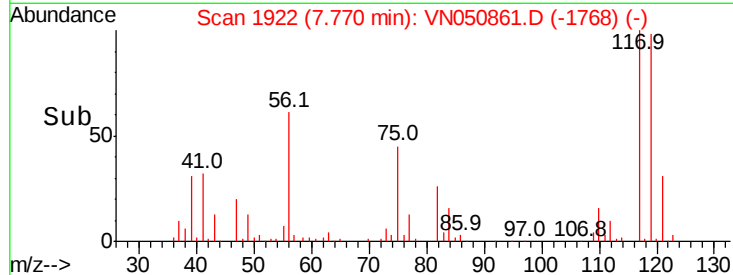
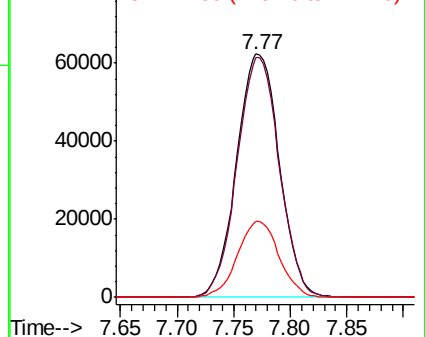


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 19.514 ug/l

RT: 8.04 min Scan# 2006

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

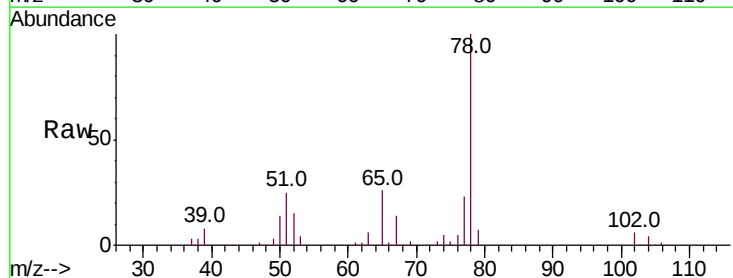
Tgt Ion: 78 Resp: 504692

Ion Ratio Lower Upper

78 100

77 23.0 19.1 28.7

51 24.4 21.0 31.4

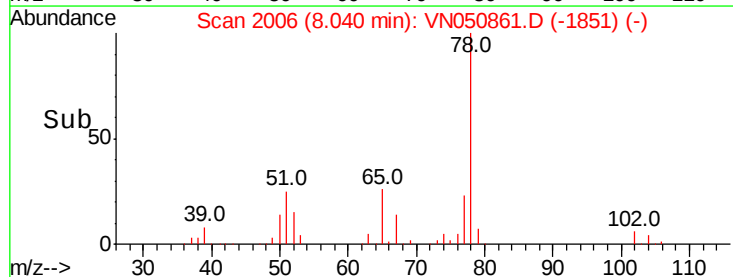
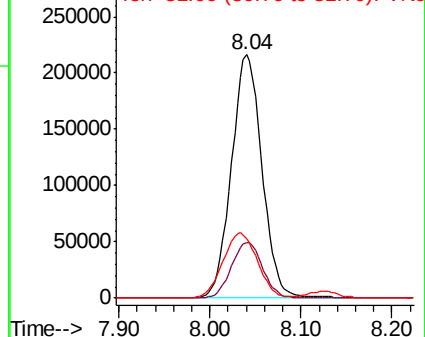


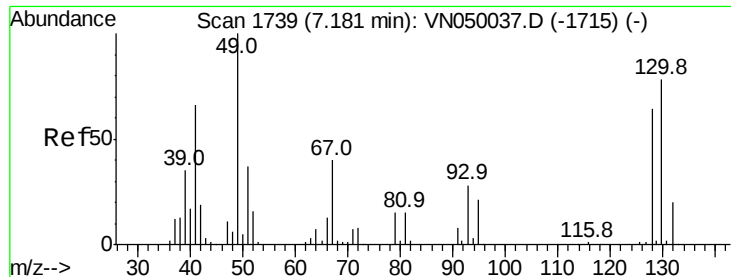
Abundance

Ion 78.10 (77.80 to 78.80): VNO

Ion 77.00 (76.70 to 77.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

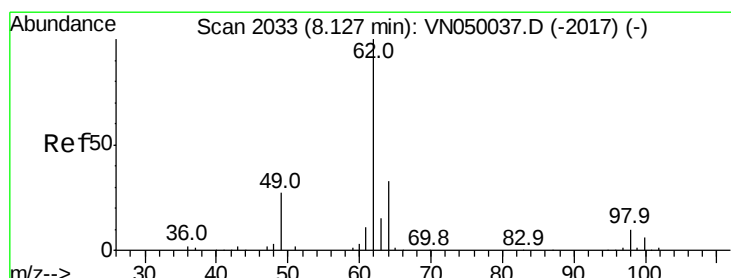
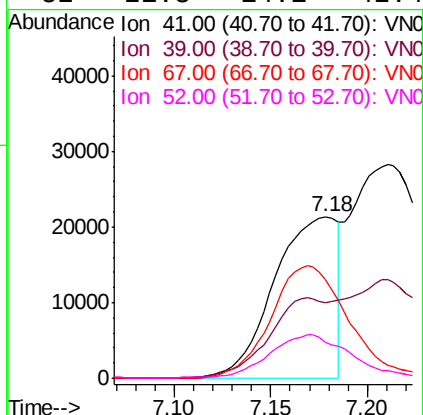
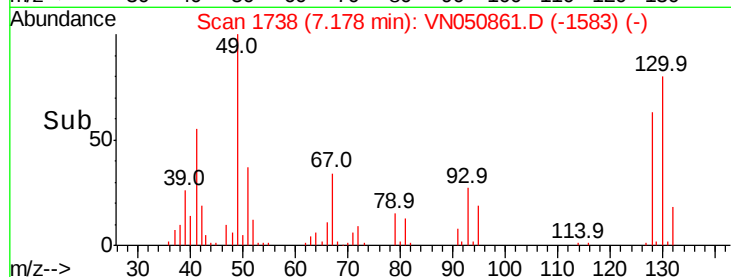
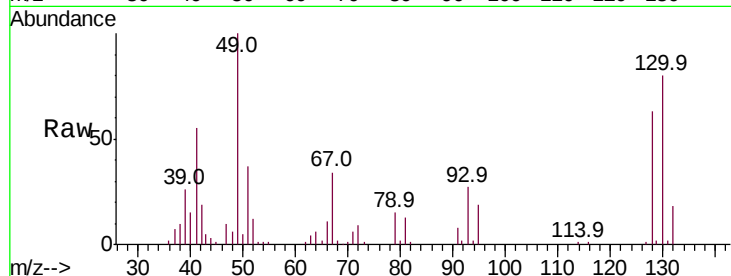




#35
Methacrylonitrile
Concen: 15.933 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

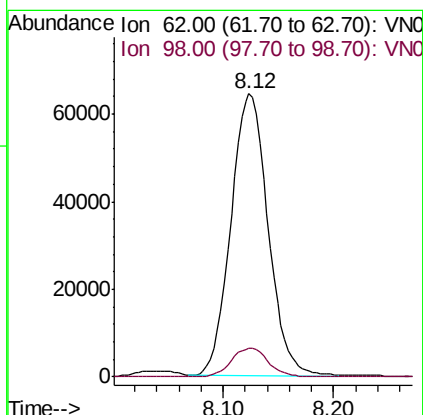
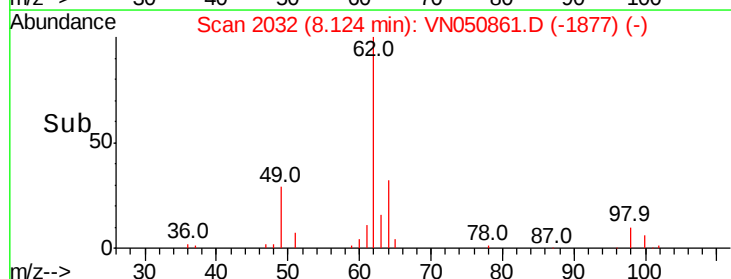
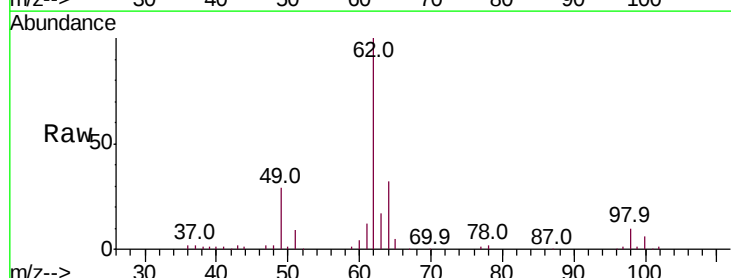
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

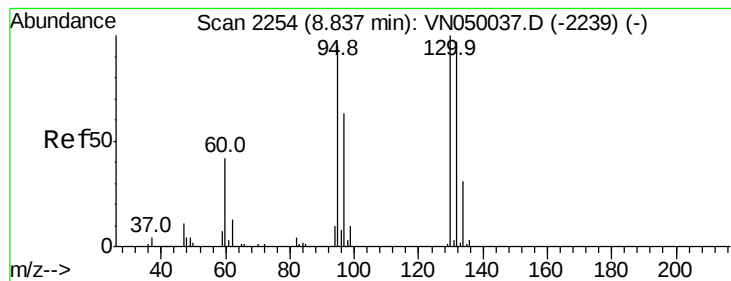
Tot Ion	Ratio	Lower	Upper
41	100		
39	47.0	27.6	82.7
67	60.6	35.1	105.5
52	21.3	14.1	42.4



#36
1,2-Dichloroethane
Concen: 17.699 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.1	7.8	11.6





#37

Trichloroethene

Concen: 19.256 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

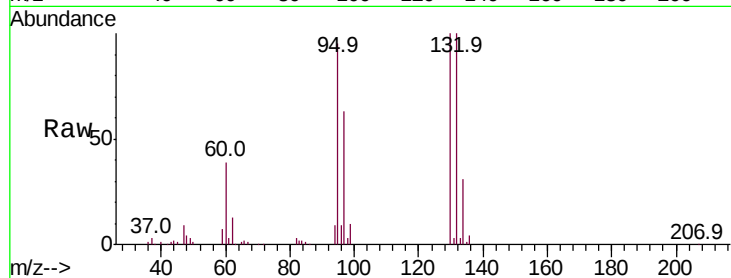
VSTDCCC020

Tot Ion:130 Resp: 130619

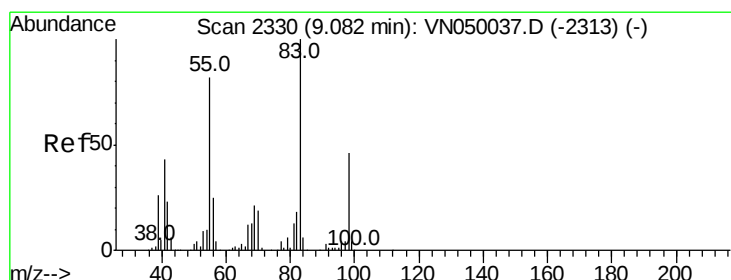
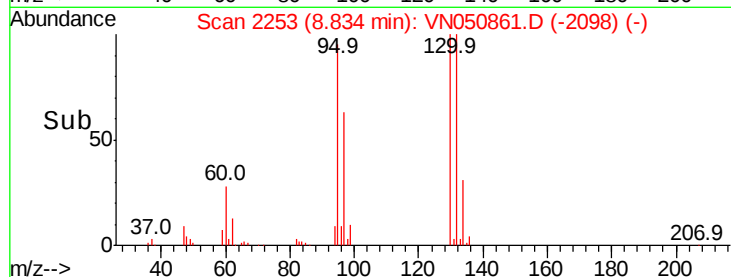
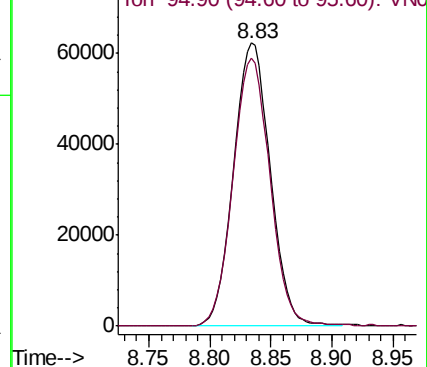
Ion Ratio Lower Upper

130 100

95 94.9 79.7 119.5



Abundance Ion 129.90 (129.60 to 130.60): VN050037.D (-2239) (-)



#38

Methylcyclohexane

Concen: 19.119 ug/l

RT: 9.08 min Scan# 2329

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

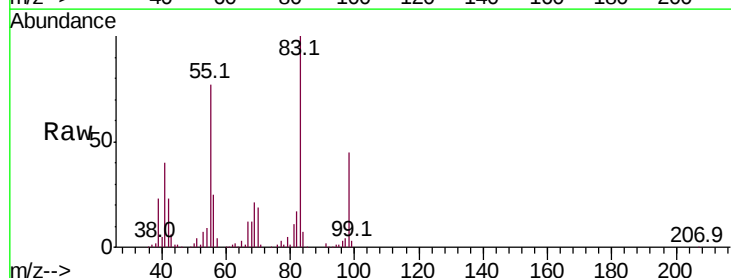
Tgt Ion: 83 Resp: 171649

Ion Ratio Lower Upper

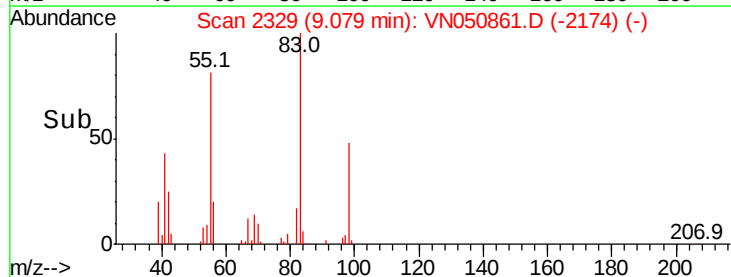
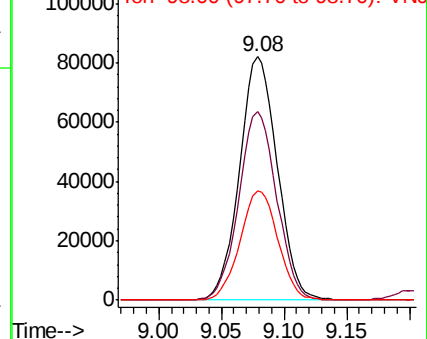
83 100

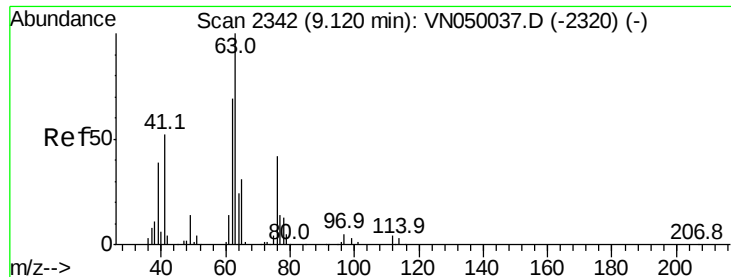
55 77.7 39.3 117.8

98 45.1 23.0 69.0



Abundance Ion 83.00 (82.70 to 83.70): VN050037.D (-2313) (-)





#39

1,2-Dichloropropane

Concen: 19.270 ug/l

RT: 9.12 min Scan# 2341

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

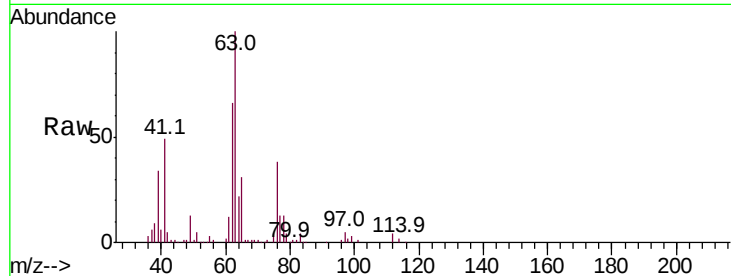
VSTDCCC020

Tot Ion: 63 Resp: 131288

Ion Ratio Lower Upper

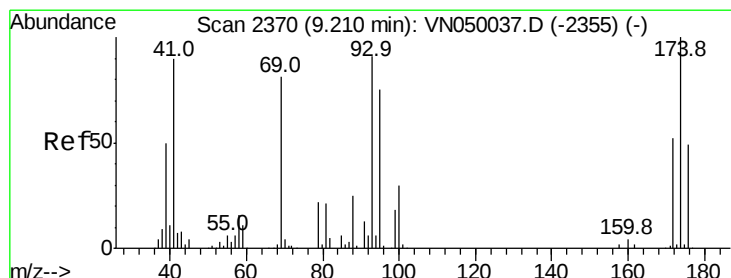
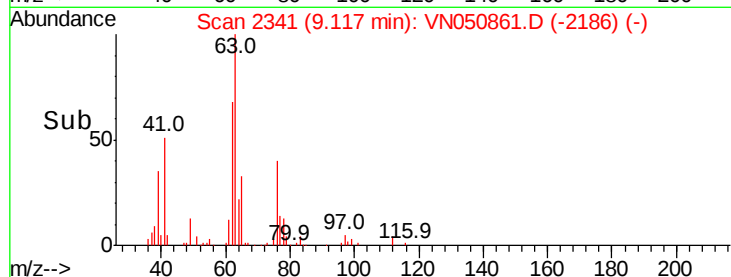
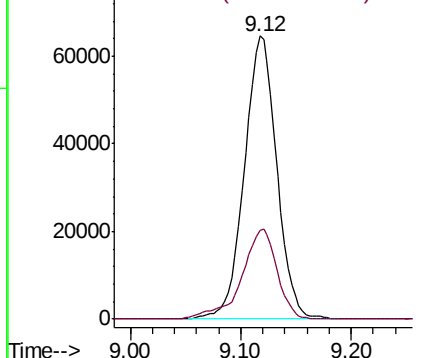
63 100

65 31.4 24.2 36.2



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 18.091 ug/l

RT: 9.21 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

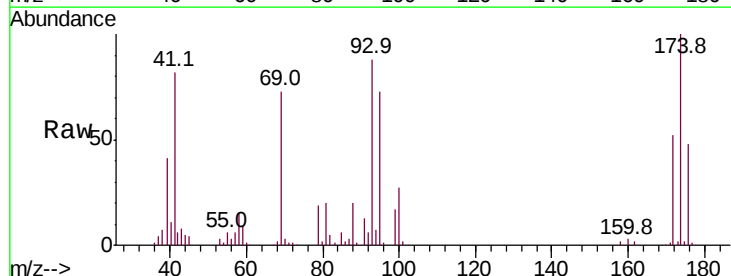
Tgt Ion: 93 Resp: 76179

Ion Ratio Lower Upper

93 100

95 83.8 0.0 165.6

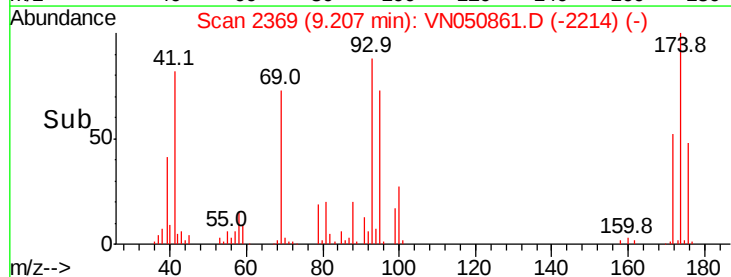
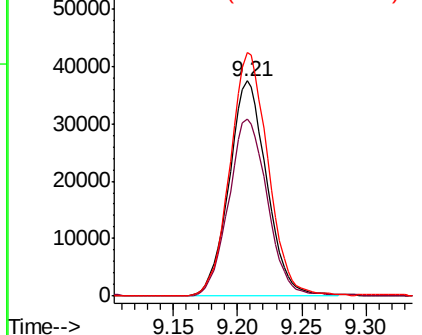
174 114.4 0.0 223.2

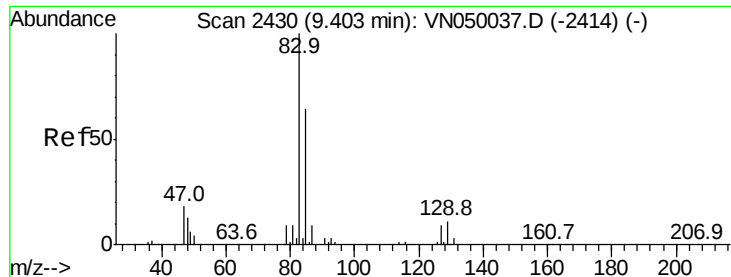


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 18.220 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

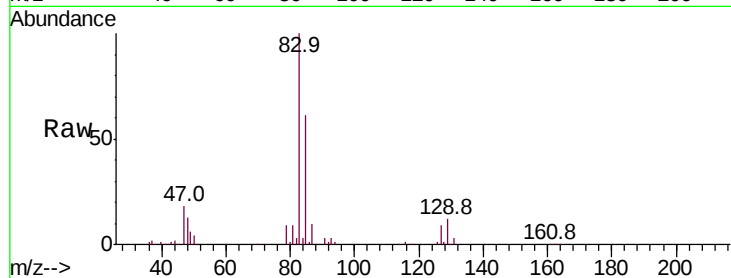
Tot Ion: 83 Resp: 161833

Ion Ratio Lower Upper

83 100

85 60.9 52.6 78.8

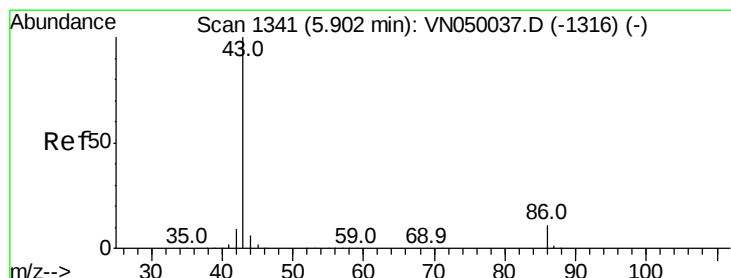
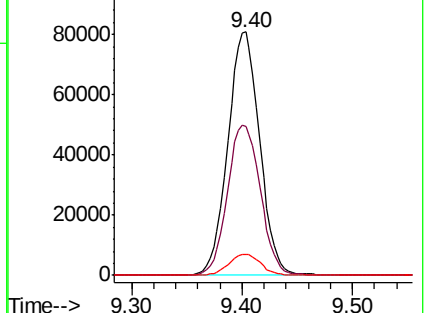
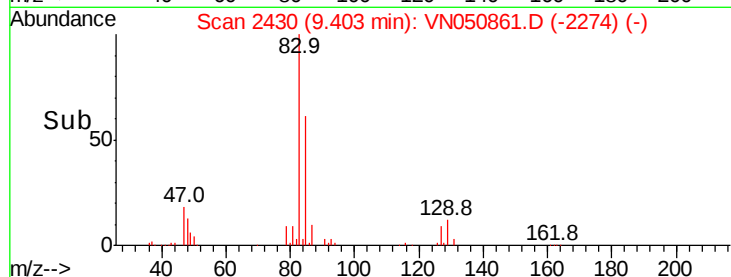
127 8.7 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VN050861.D (-2274) (-)

Ion 85.00 (84.70 to 85.70): VN050861.D (-2274) (-)

Ion 127.00 (126.70 to 127.70): VN050861.D (-2274) (-)



#42

Vinyl Acetate

Concen: 83.872 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VN050861.D

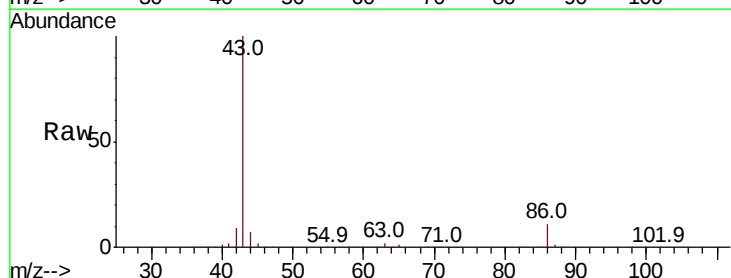
Acq: 24 Aug 2018 8:04

Tgt Ion: 43 Resp: 1054721

Ion Ratio Lower Upper

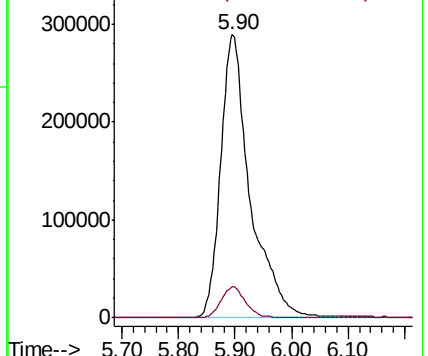
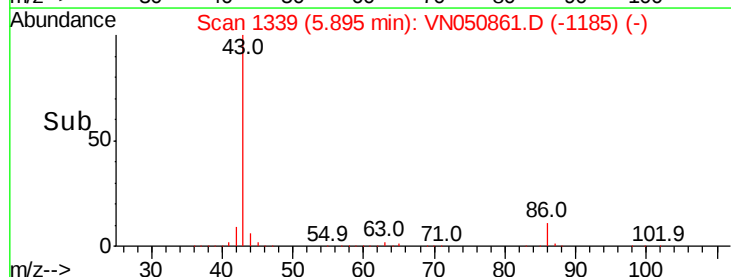
43 100

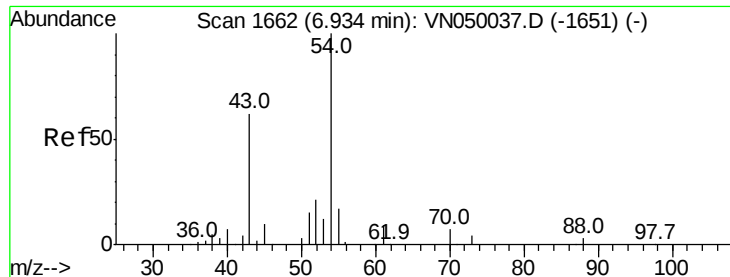
86 9.2 7.3 10.9



Abundance Ion 43.00 (42.70 to 43.70): VN050861.D (-1185) (-)

Ion 86.00 (85.70 to 86.70): VN050861.D (-1185) (-)





#43

Ethyl Acetate

Concen: 15.818 ug/l

RT: 6.93 min Scan# 1660

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

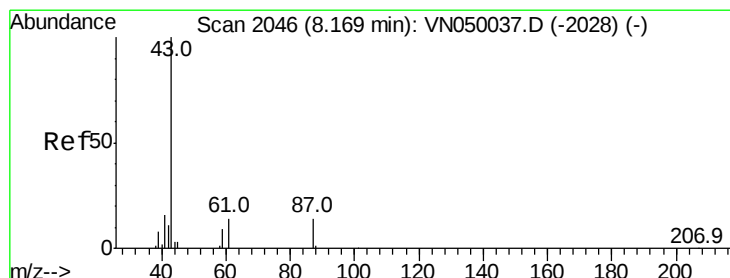
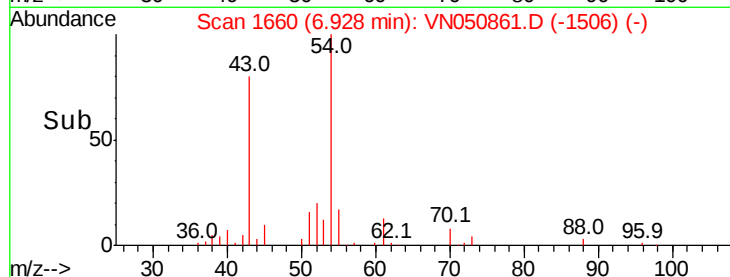
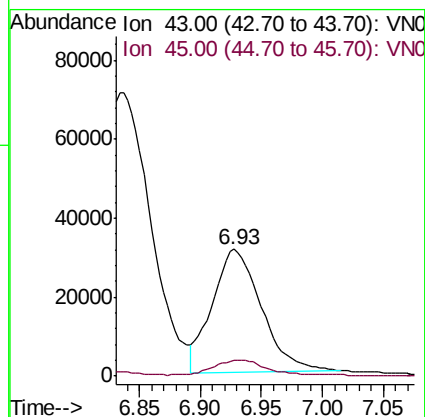
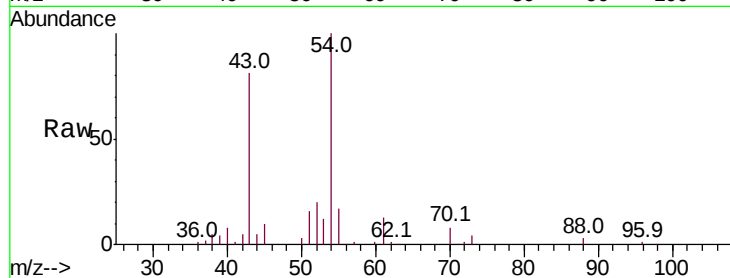
VSTDCCC020

Tot Ion: 43 Resp: 88268

Ion Ratio Lower Upper

43 100

45 12.2 13.0 19.6#



#44

Isopropyl Acetate

Concen: 15.569 ug/l

RT: 8.16 min Scan# 2044

Delta R.T. -0.01 min

Lab File: VN050861.D

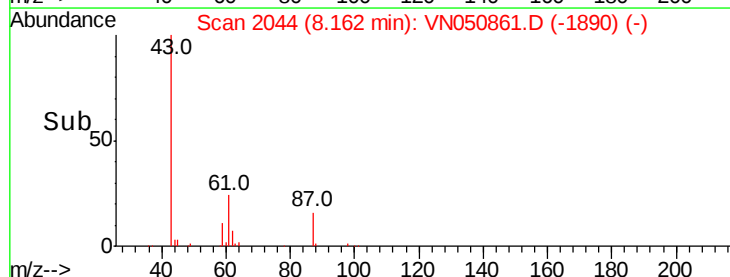
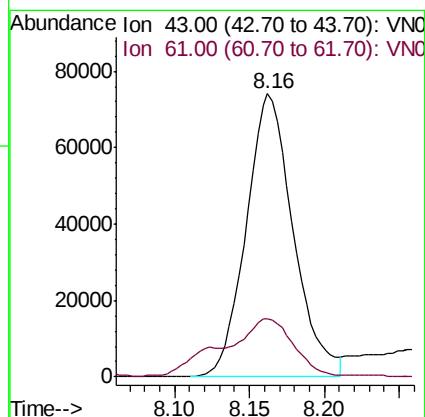
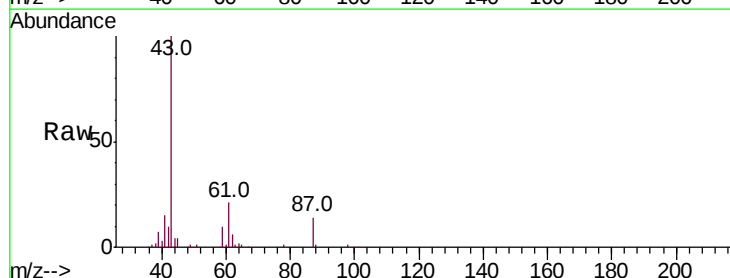
Acq: 24 Aug 2018 8:04

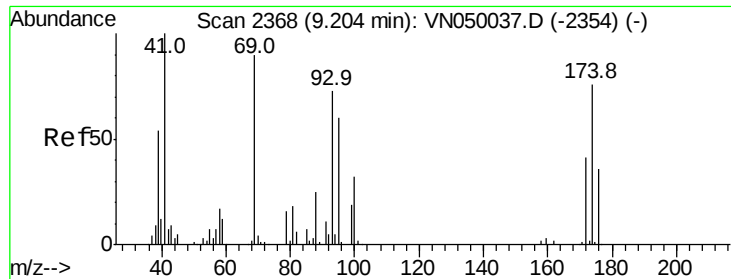
Tgt Ion: 43 Resp: 160936

Ion Ratio Lower Upper

43 100

61 18.2 16.4 24.6

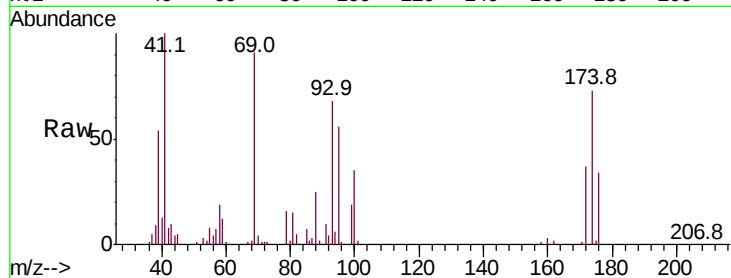




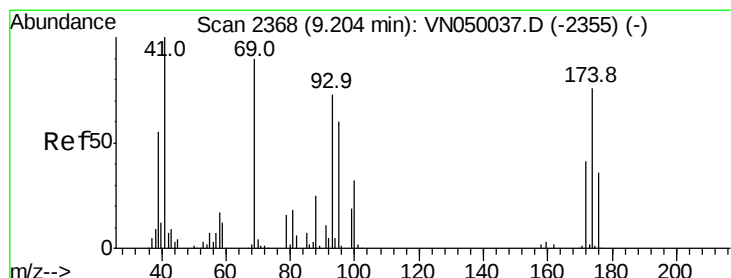
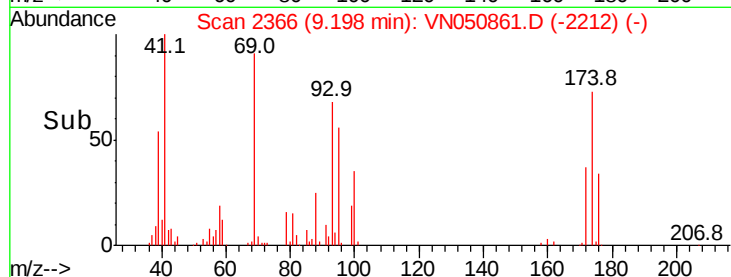
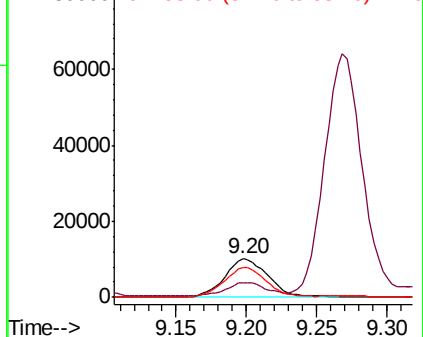
#45
1,4-Dioxane
Concen: 322.022 ug/l
RT: 9.20 min Scan# 2366
Delta R.T. -0.01 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 88 Resp: 21905
Ion Ratio Lower Upper
88 100
43 31.0 26.9 40.3
58 75.1 53.6 80.4

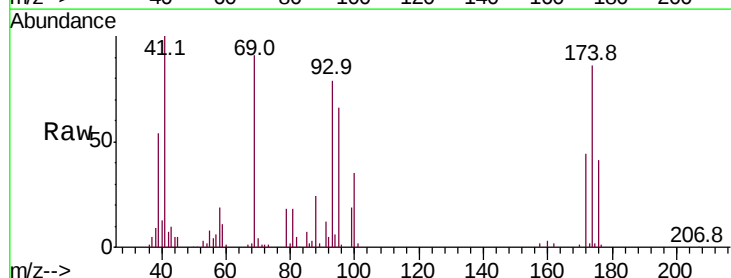


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

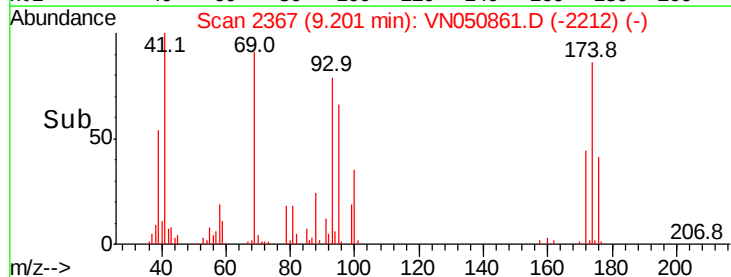
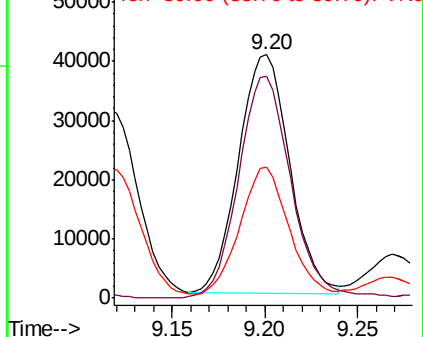


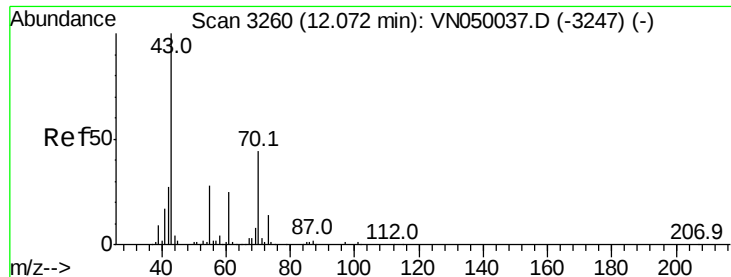
#46
Methyl methacrylate
Concen: 15.379 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 41 Resp: 77066
Ion Ratio Lower Upper
41 100
69 92.5 44.0 132.1
39 53.1 27.0 80.8



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





#47

n-amyl Acetate

Concen: 14.993 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

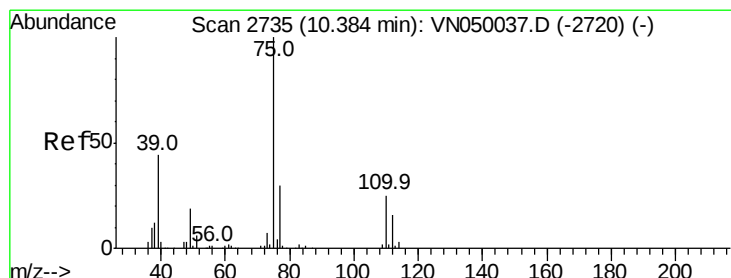
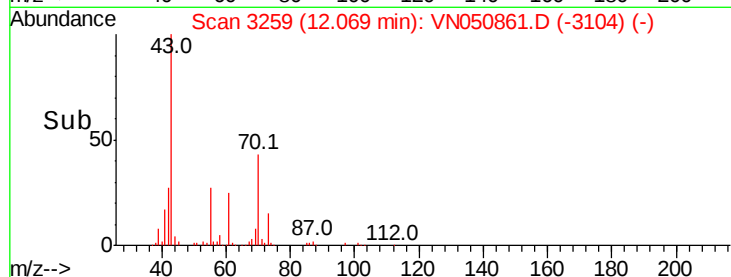
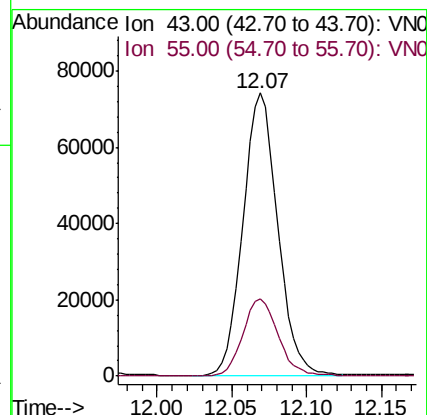
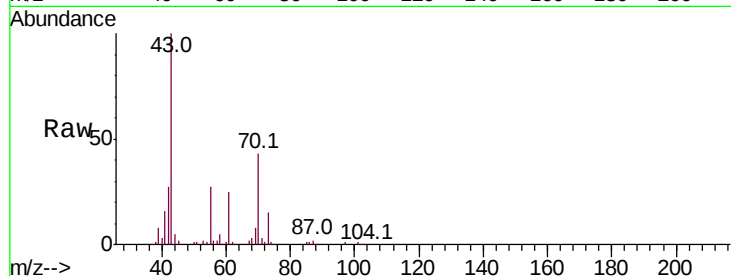
VSTDCCC020

Tot Ion: 43 Resp: 120602

Ion Ratio Lower Upper

43 100

55 27.7 21.0 31.4



#48

t-1,3-Dichloropropene

Concen: 18.131 ug/l

RT: 10.38 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN050861.D

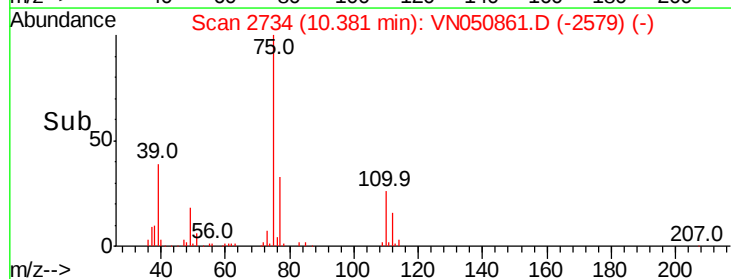
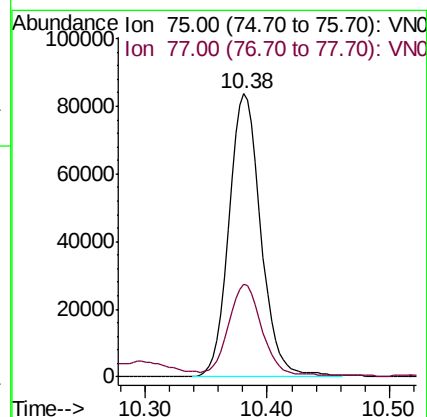
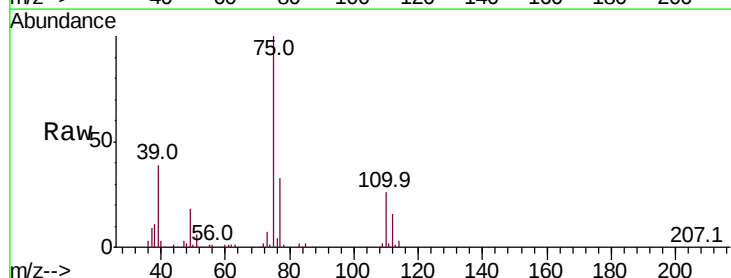
Acq: 24 Aug 2018 8:04

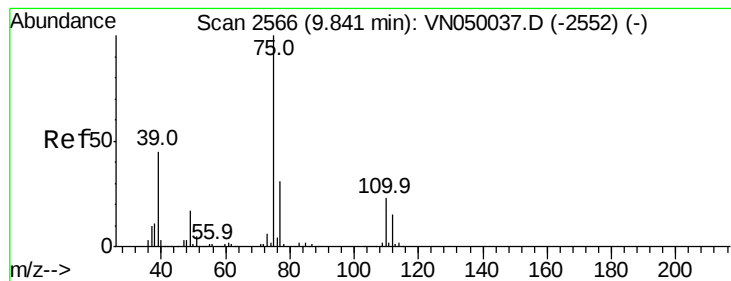
Tgt Ion: 75 Resp: 153504

Ion Ratio Lower Upper

75 100

77 32.1 24.6 37.0



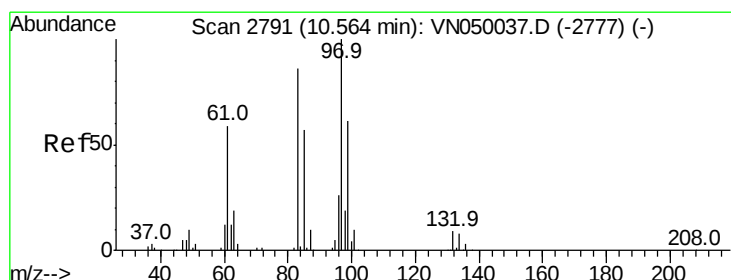
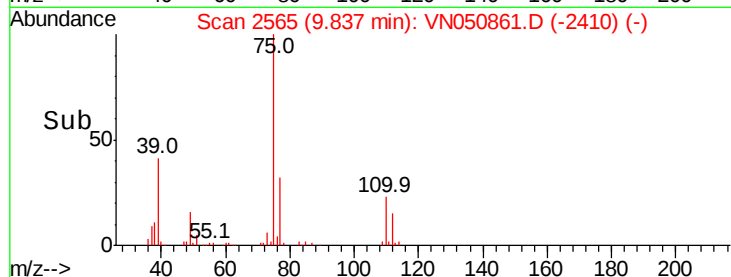
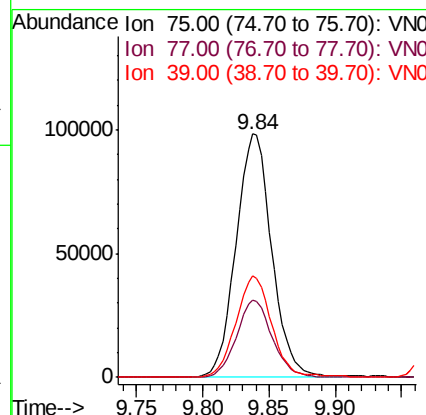
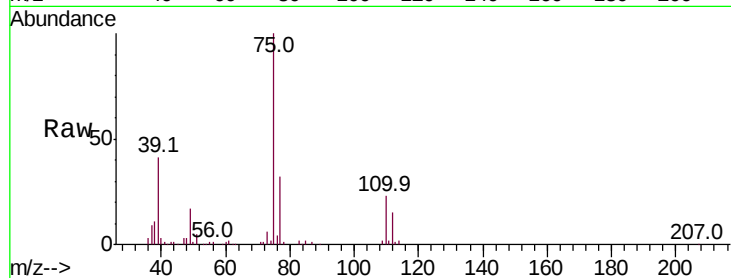


#49

cis-1,3-Dichloropropene
Concen: 18.503 ug/l
RT: 9.84 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

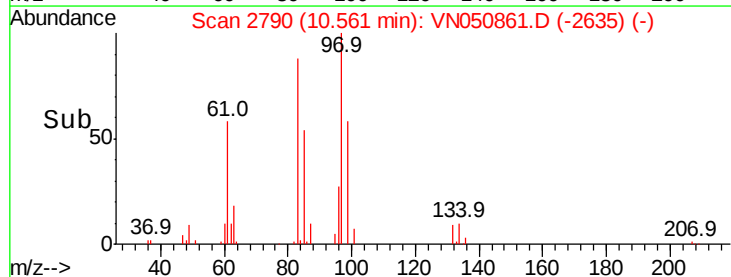
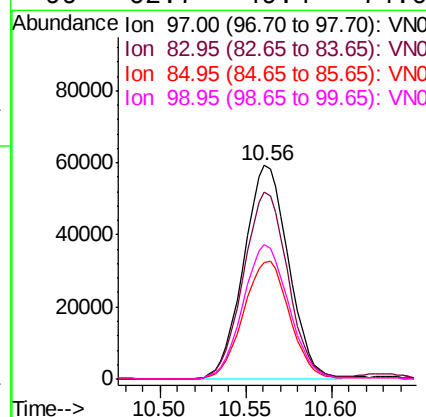
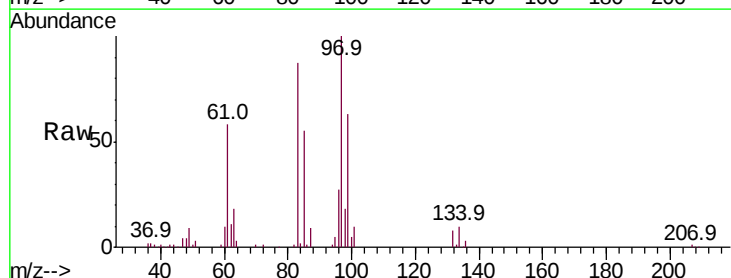
Tot Ion: 75 Resp: 184069
Ion Ratio Lower Upper
75 100
77 31.7 25.7 38.5
39 41.5 36.3 54.5

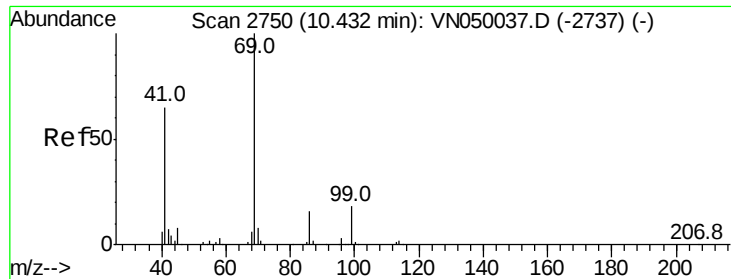


#50

1,1,2-Trichloroethane
Concen: 17.739 ug/l
RT: 10.56 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 97 Resp: 107221
Ion Ratio Lower Upper
97 100
83 87.4 68.1 102.1
85 54.7 45.4 68.2
99 62.7 49.4 74.0





#51

Ethyl methacrylate

Concen: 16.021 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

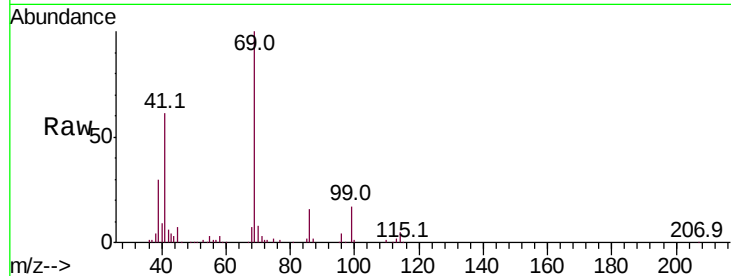
Tot Ion: 69 Resp: 117535

Ion Ratio Lower Upper

69 100

41 60.7 31.9 95.9

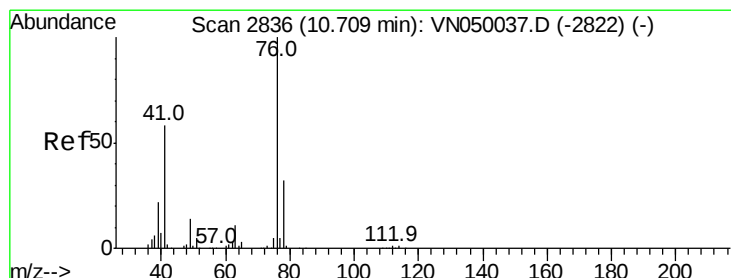
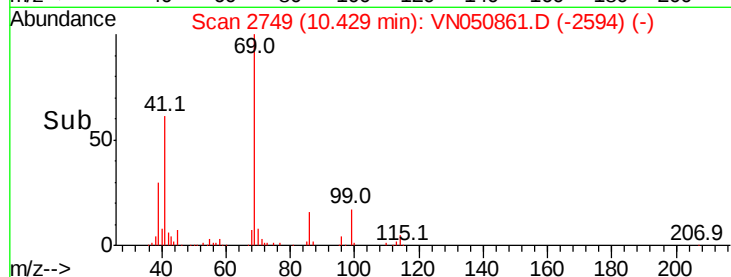
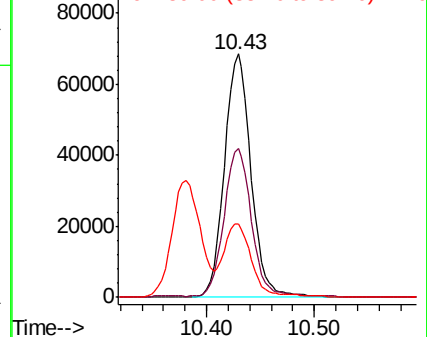
39 29.9 16.7 50.1



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 18.123 ug/l

RT: 10.71 min Scan# 2835

Delta R.T. -0.00 min

Lab File: VN050861.D

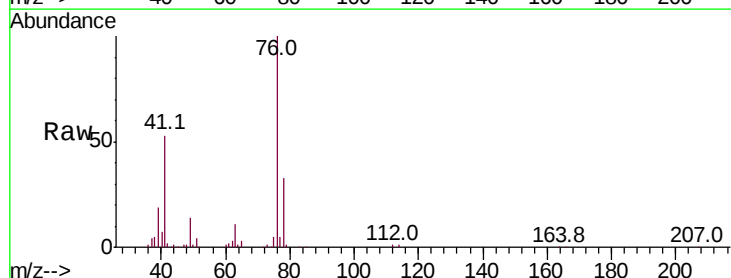
Acq: 24 Aug 2018 8:04

Tgt Ion: 76 Resp: 179881

Ion Ratio Lower Upper

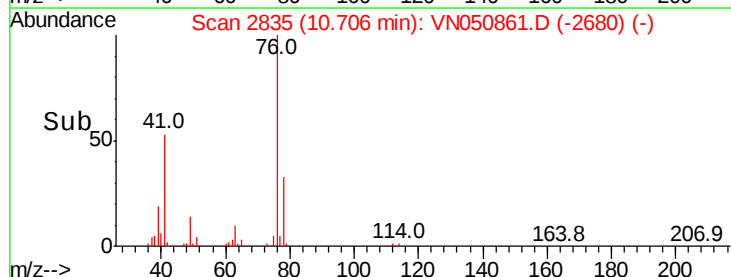
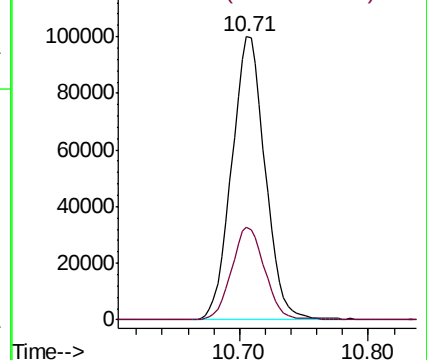
76 100

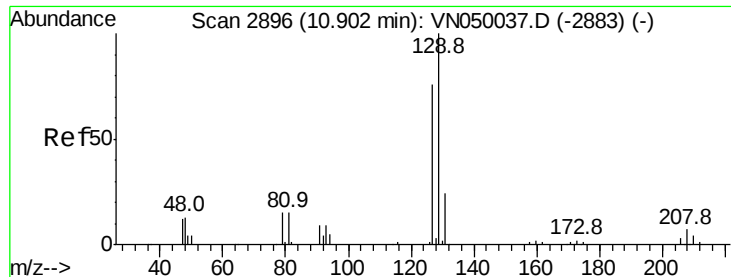
78 32.4 0.0 65.6



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 17.803 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

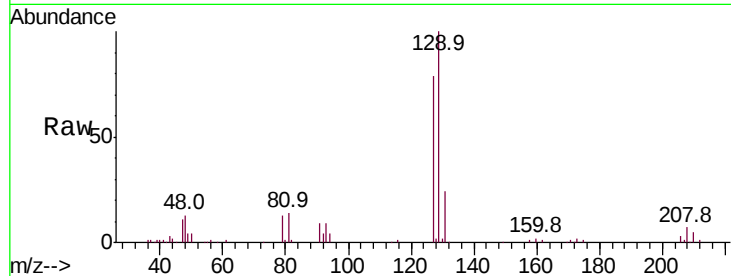
VSTDCCC020

Tot Ion:129 Resp: 122121

Ion Ratio Lower Upper

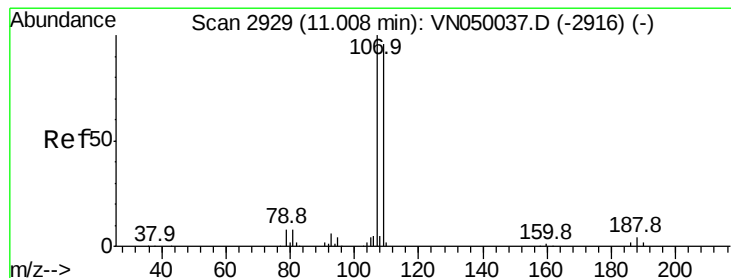
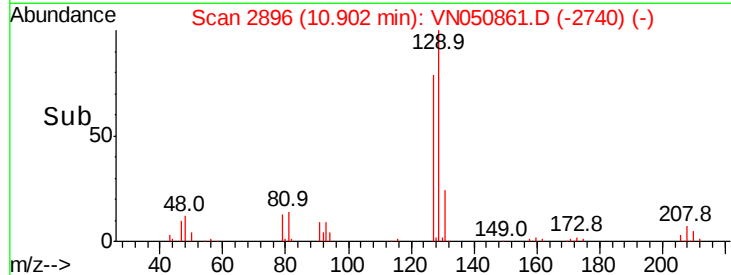
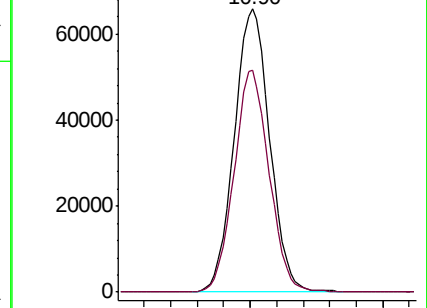
129 100

127 77.5 38.1 114.5



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 17.573 ug/l

RT: 11.00 min Scan# 2928

Delta R.T. -0.00 min

Lab File: VN050861.D

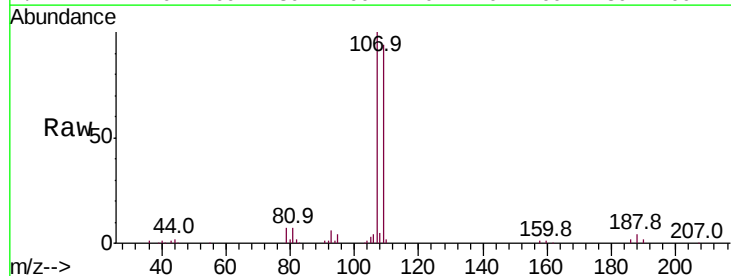
Acq: 24 Aug 2018 8:04

Tgt Ion:107 Resp: 104024

Ion Ratio Lower Upper

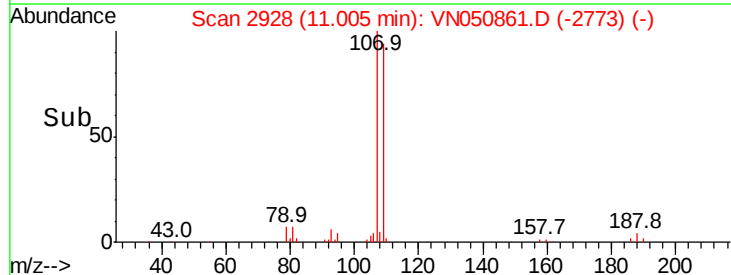
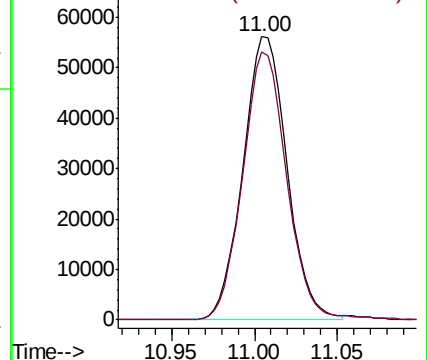
107 100

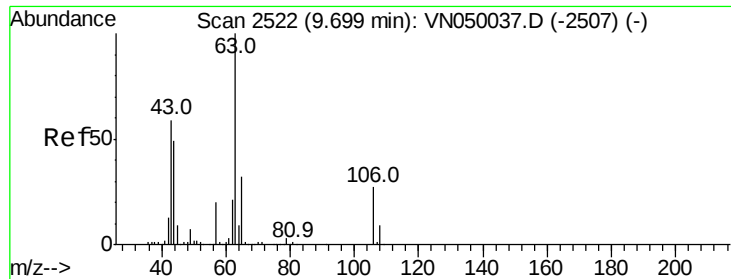
109 94.7 76.2 114.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

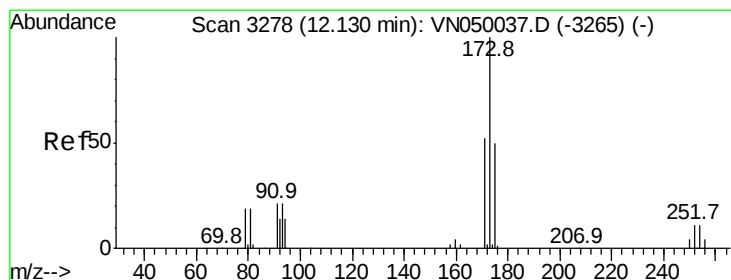
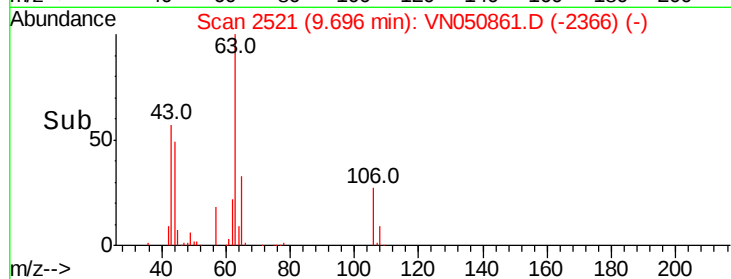
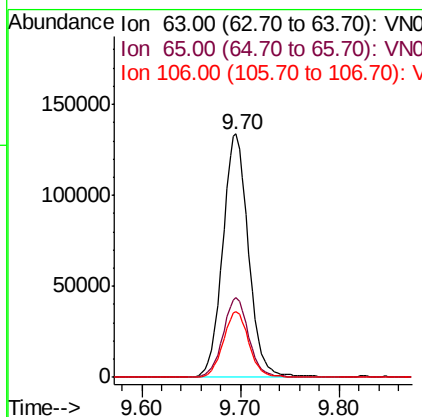
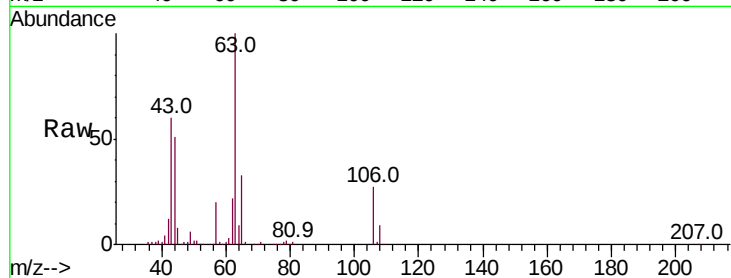




#55
 2-Chloroethyl vinyl ether
 Concen: 74.069 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

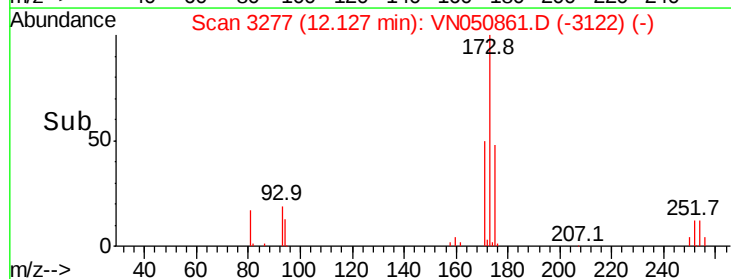
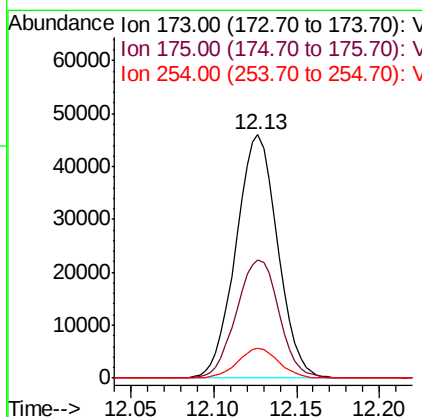
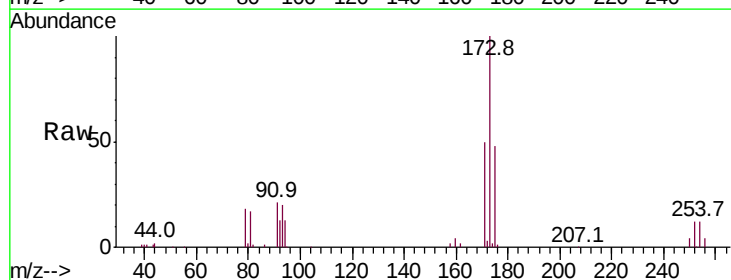
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

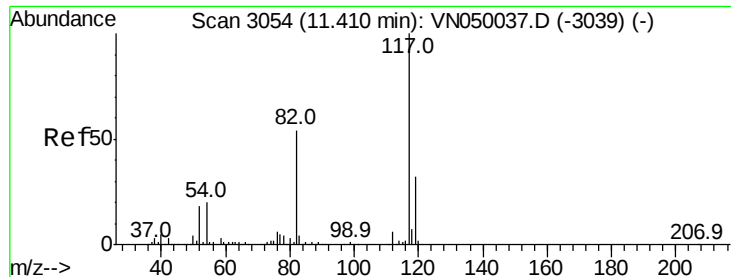
Tot Ion: 63 Resp: 245928
 Ion Ratio Lower Upper
 63 100
 65 32.3 25.5 38.3
 106 26.9 21.8 32.6



#56
 Bromoform
 Concen: 16.655 ug/l
 RT: 12.13 min Scan# 3277
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Tgt Ion: 173 Resp: 80668
 Ion Ratio Lower Upper
 173 100
 175 49.8 38.6 57.8
 254 12.0 8.8 13.2

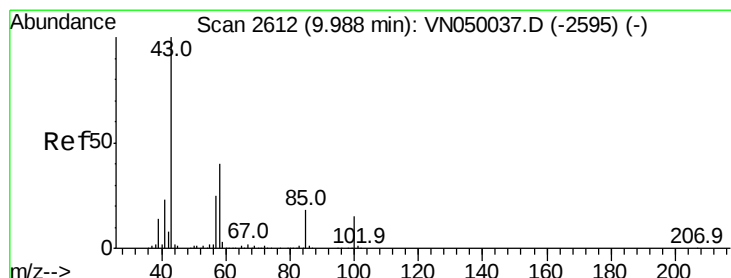
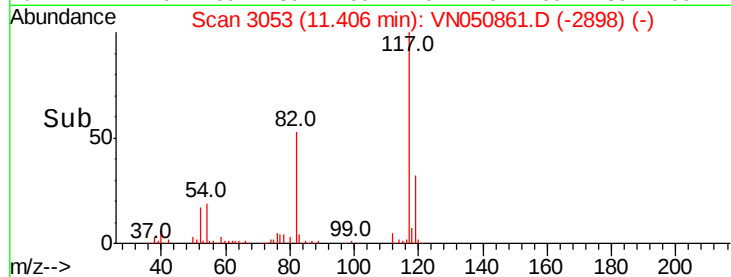
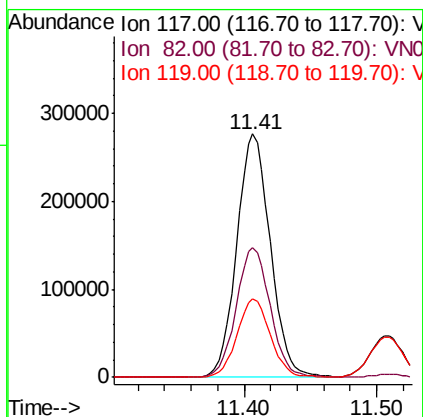
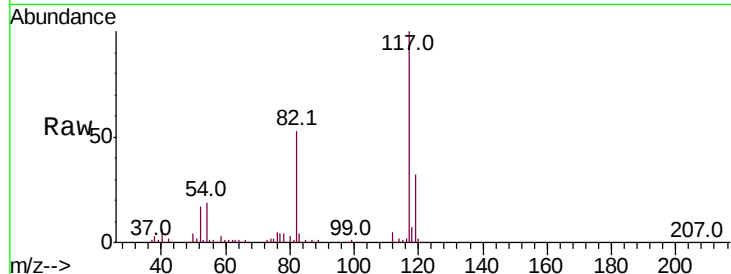




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

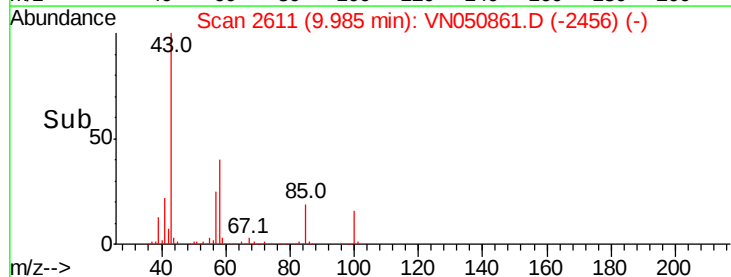
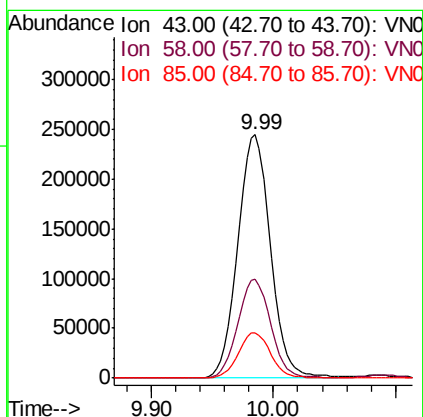
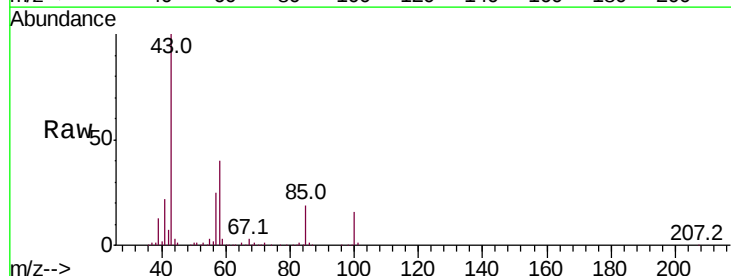
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

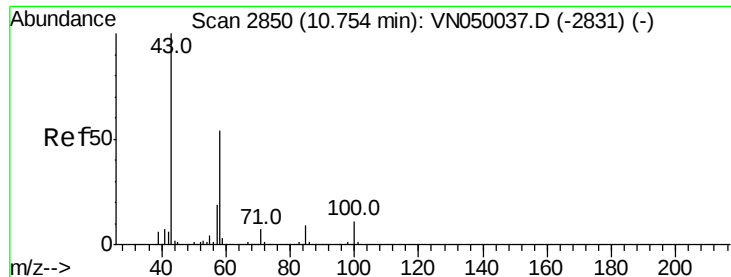
Tot Ion:117 Resp: 487391
Ion Ratio Lower Upper
117 100
82 53.9 42.4 63.6
119 32.0 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 79.530 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 43 Resp: 451037
Ion Ratio Lower Upper
43 100
58 41.0 31.2 46.8
85 18.5 14.4 21.6





#59

2-Hexanone

Concen: 76.755 ug/l

RT: 10.75 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

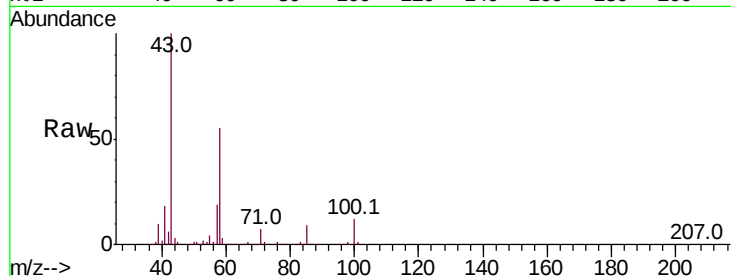
Tot Ion: 43 Resp: 296968

Ion Ratio Lower Upper

43 100

58 55.3 43.8 65.8

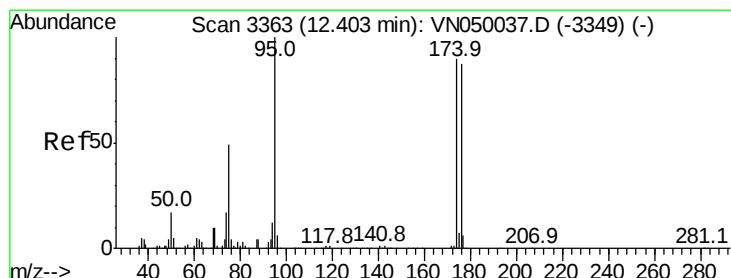
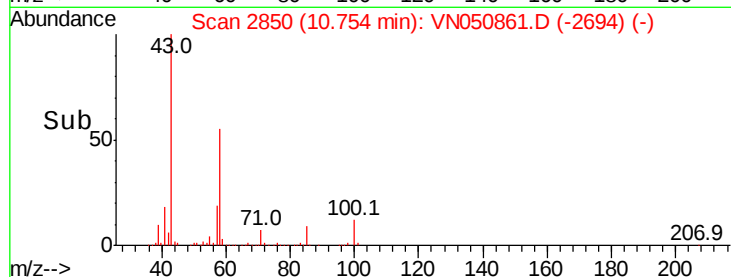
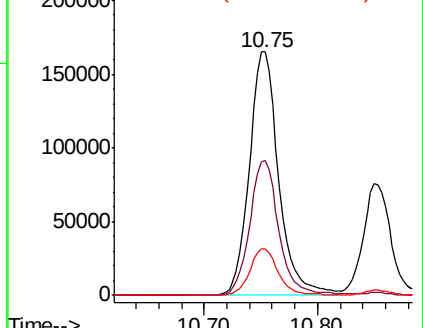
57 19.0 15.1 22.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#60

4-Bromofluorobenzene

Concen: 29.695 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

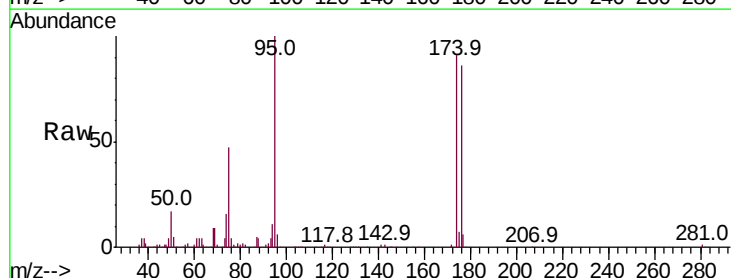
Tgt Ion: 95 Resp: 222353

Ion Ratio Lower Upper

95 100

174 91.0 72.3 108.5

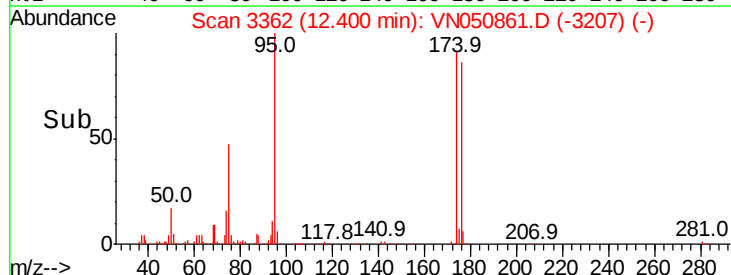
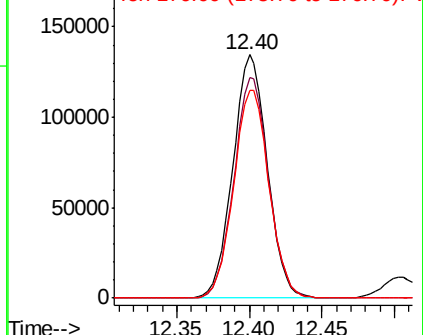
176 87.6 70.0 105.0

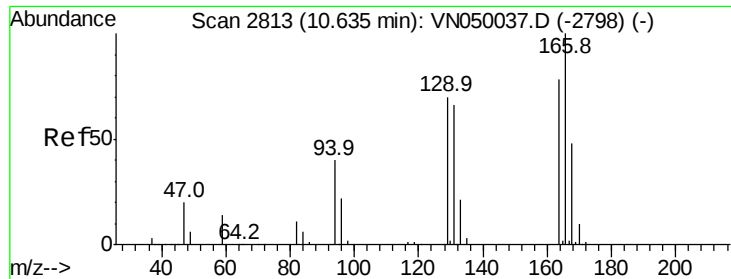


Abundance Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 18.073 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:164 Resp: 119315

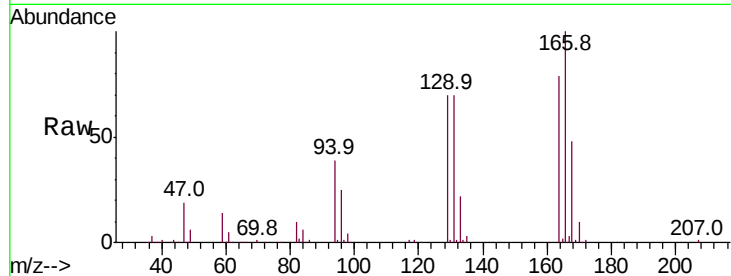
Ion Ratio Lower Upper

164 100

166 126.7 100.0 150.0

129 88.9 69.3 103.9

131 88.5 68.8 103.2

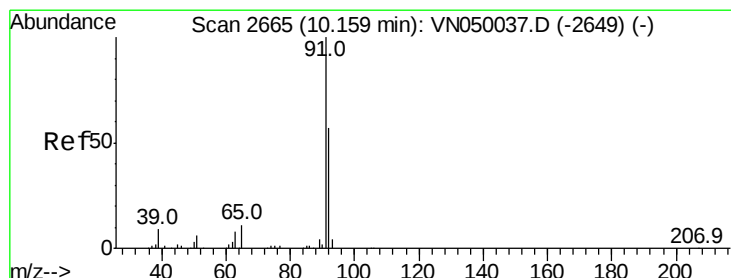
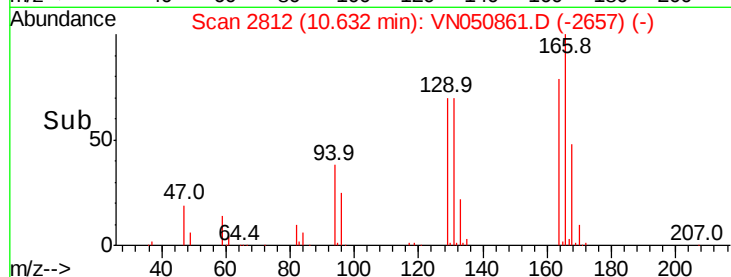
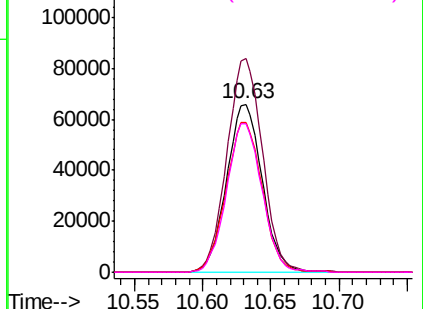


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.002 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050861.D

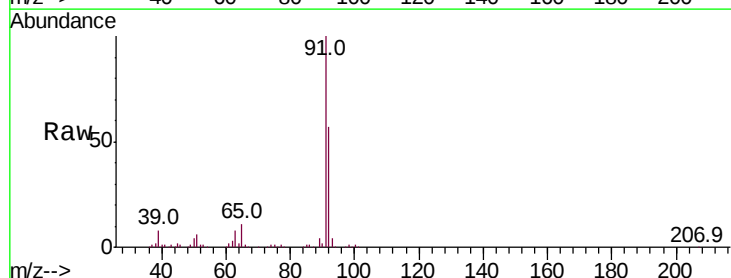
Acq: 24 Aug 2018 8:04

Tgt Ion: 91 Resp: 528387

Ion Ratio Lower Upper

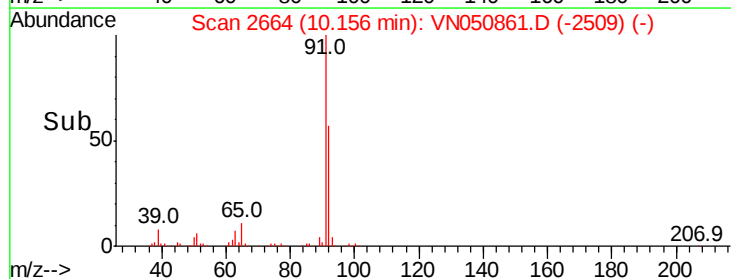
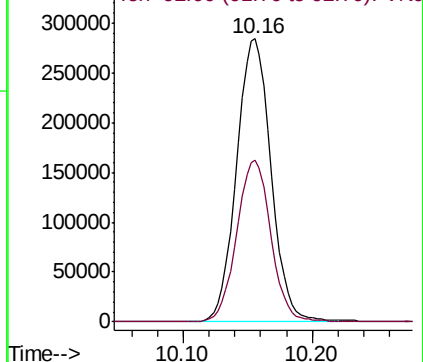
91 100

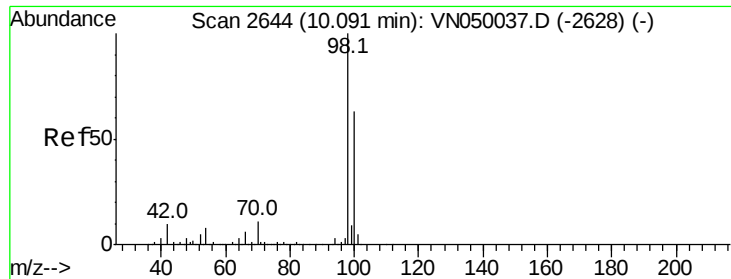
92 57.0 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO

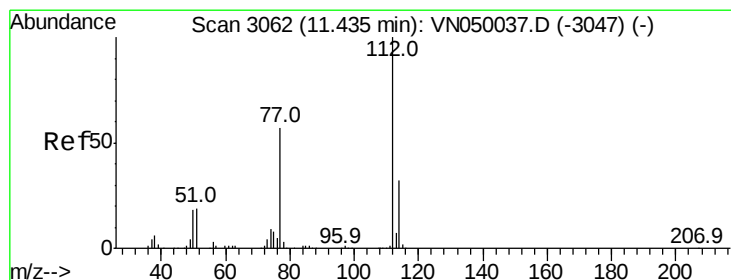
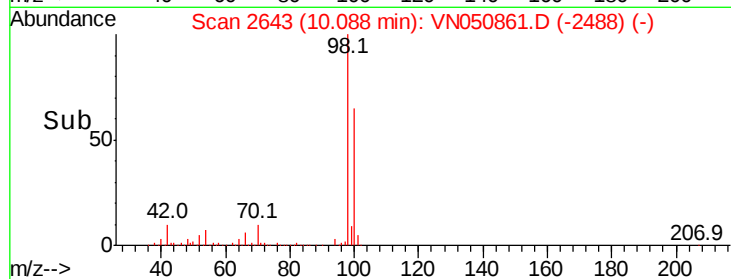
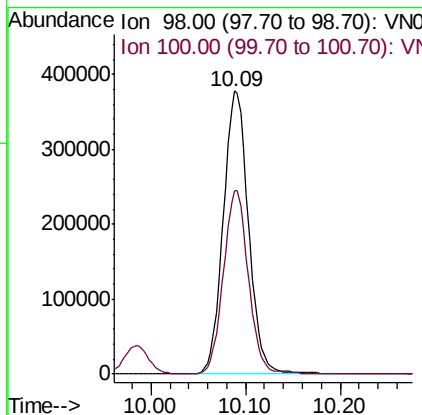
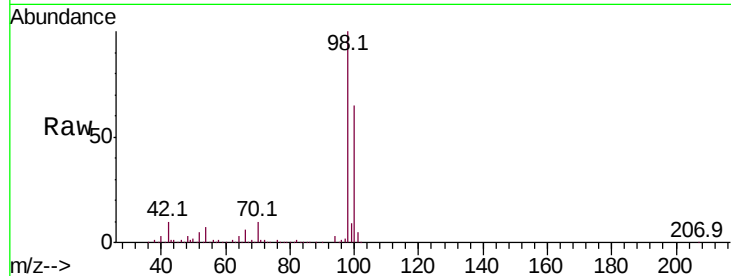




#63
Toluene-d8
Concen: 30.103 ug/l
RT: 10.09 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

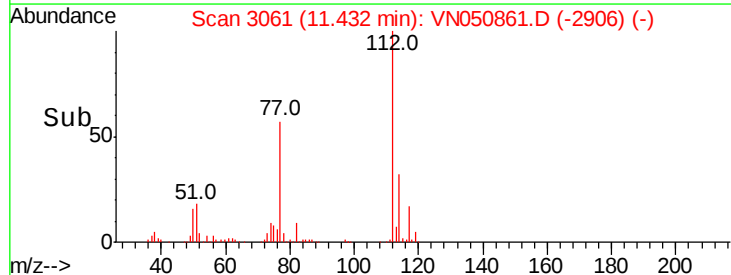
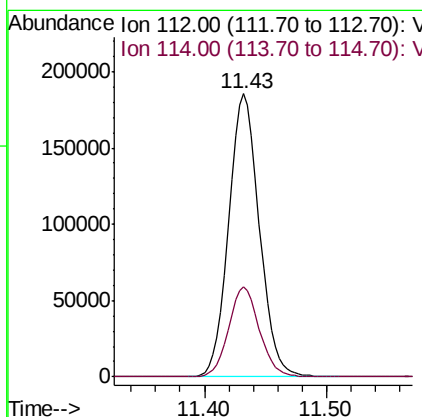
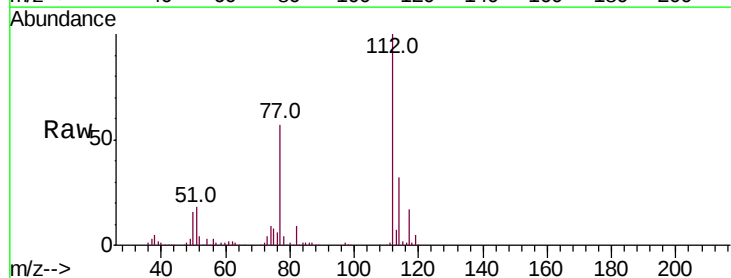
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

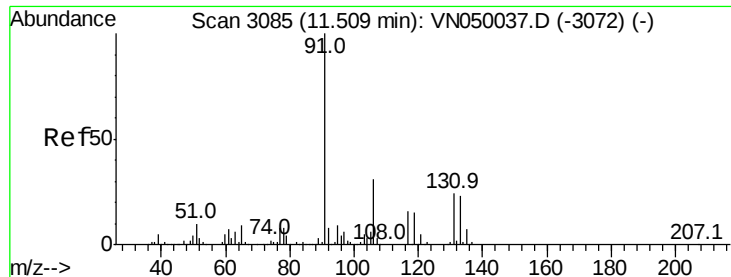
Tot Ion: 98 Resp: 700819
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#64
Chlorobenzene
Concen: 19.282 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 112 Resp: 325134
Ion Ratio Lower Upper
112 100
114 31.8 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 18.308 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

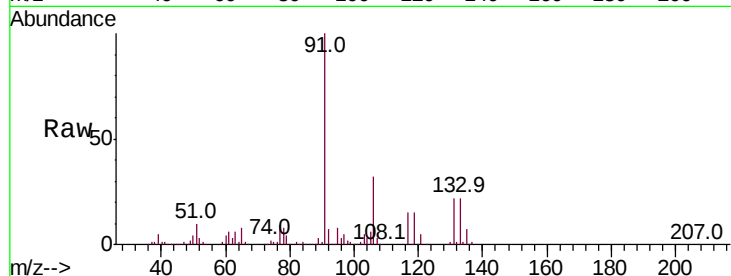
Tot Ion:131 Resp: 120416

Ion Ratio Lower Upper

131 100

133 98.4 0.0 190.0

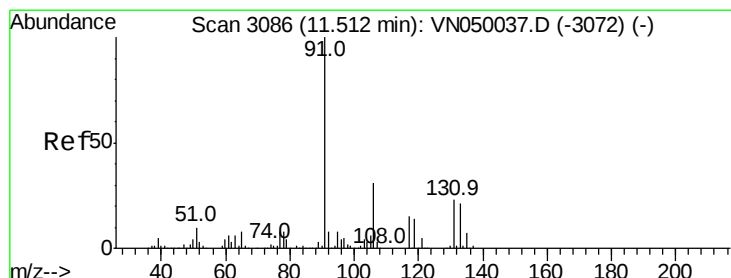
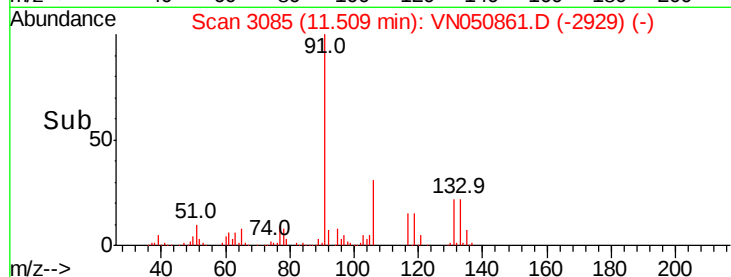
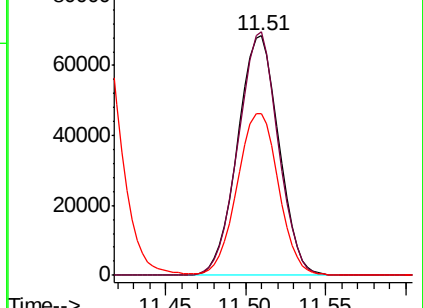
119 68.0 0.0 131.6



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 18.383 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050861.D

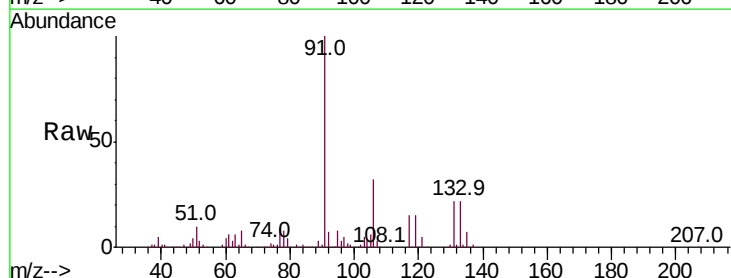
Acq: 24 Aug 2018 8:04

Tgt Ion: 91 Resp: 522395

Ion Ratio Lower Upper

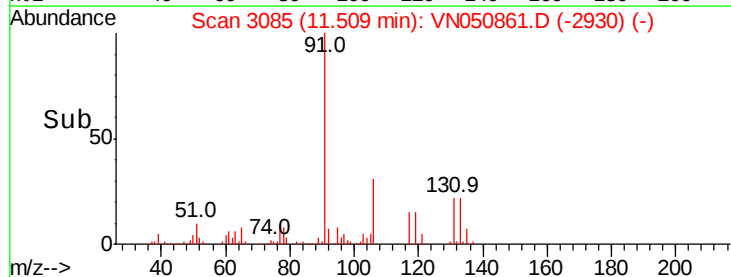
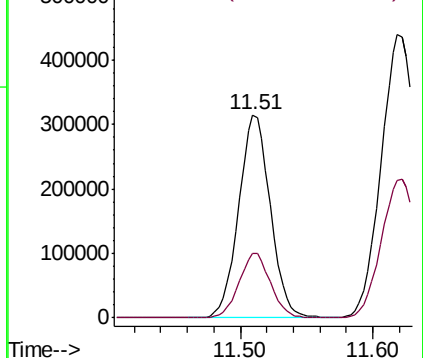
91 100

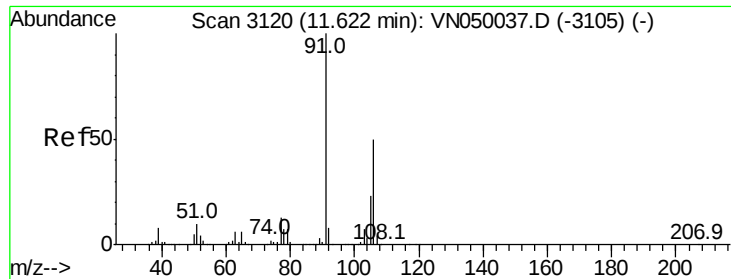
106 31.6 25.1 37.7



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

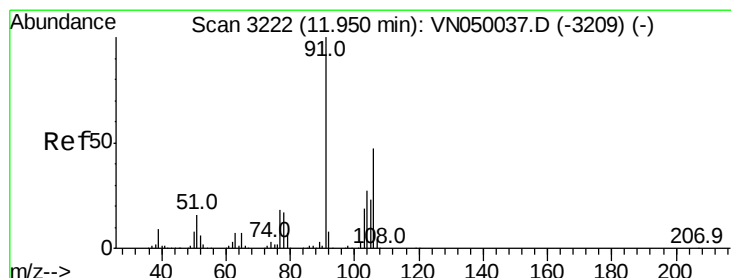
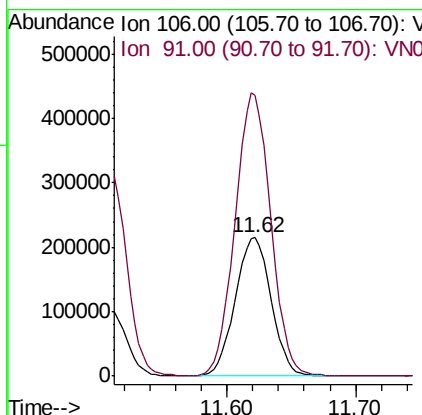
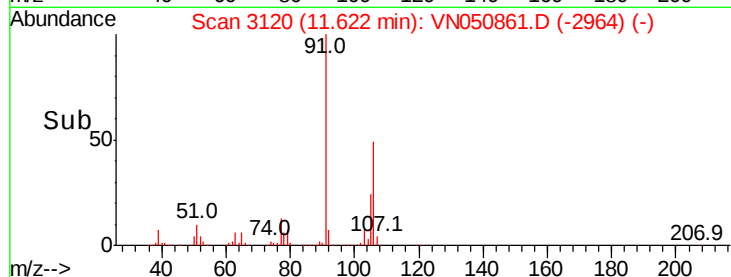
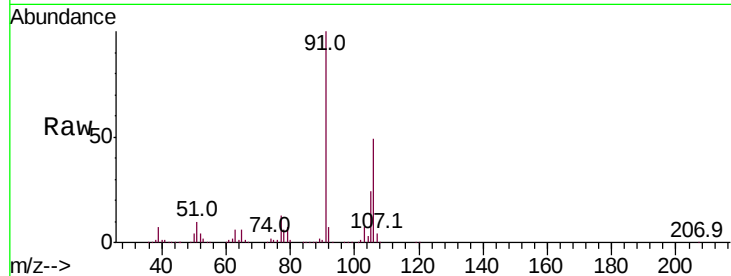




#67
m/p-Xylenes
Concen: 38.060 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

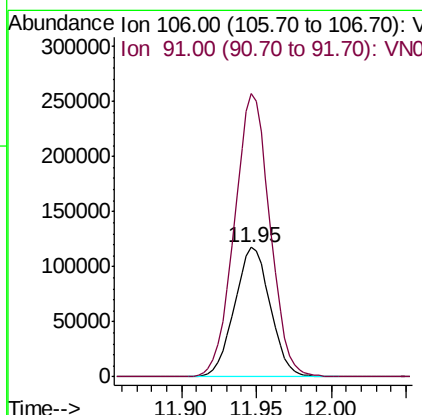
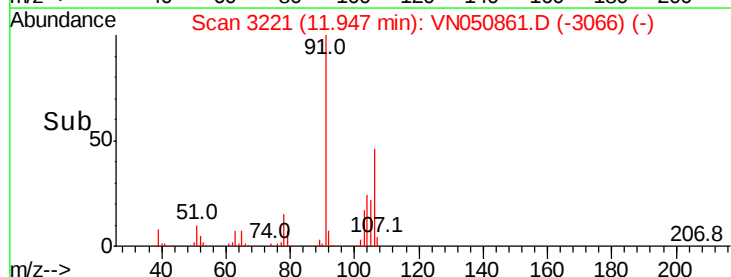
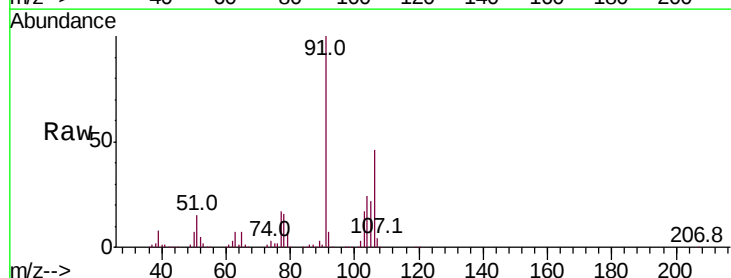
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

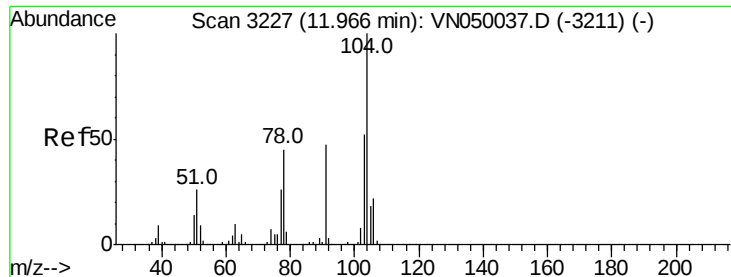
Tot Ion:106 Resp: 416234
Ion Ratio Lower Upper
106 100
91 202.9 162.5 243.7



#68
o-Xylene
Concen: 18.867 ug/l
RT: 11.95 min Scan# 3221
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion:106 Resp: 196311
Ion Ratio Lower Upper
106 100
91 216.6 106.8 320.4

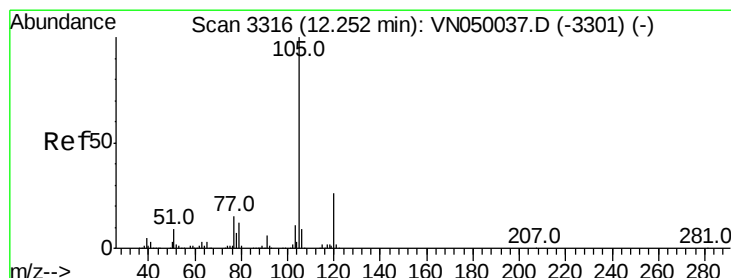
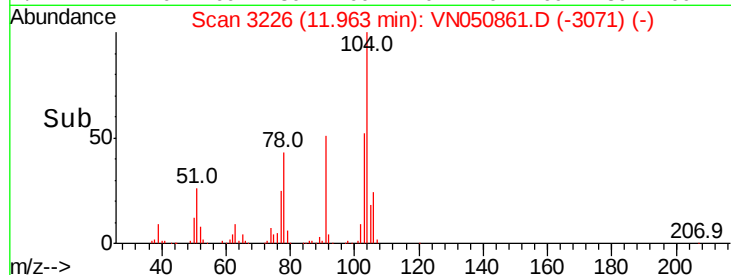
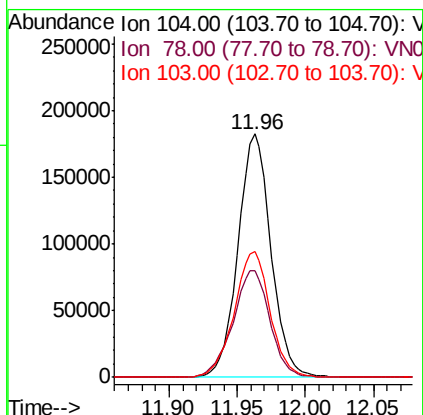
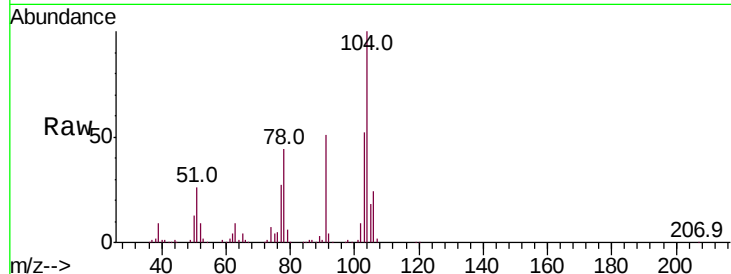




#69
Stvrene
Concen: 18.329 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

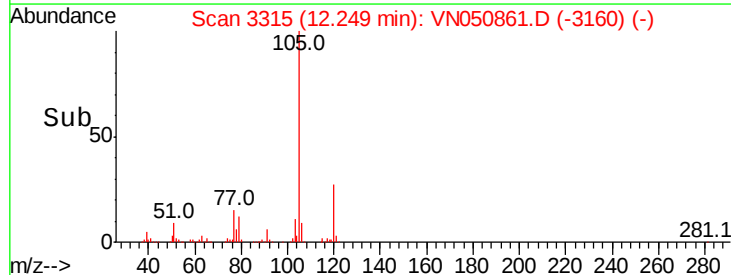
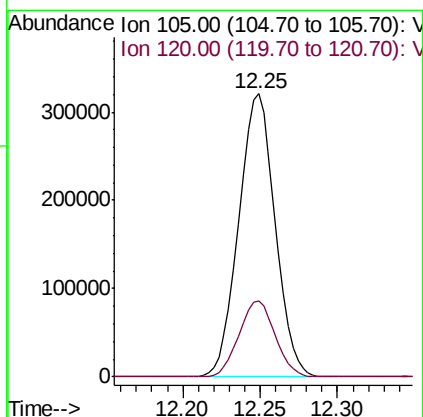
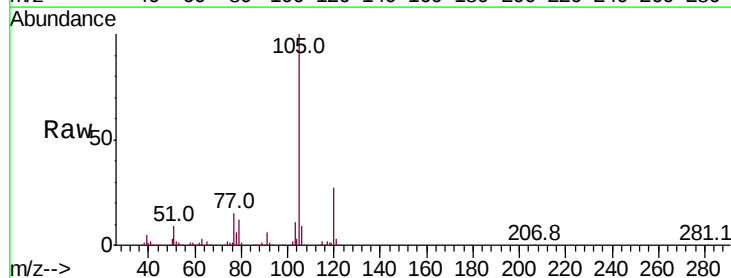
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

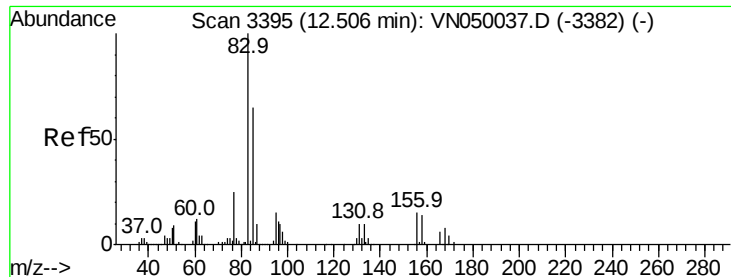
Tot Ion	Ratio	Lower	Upper
104	100		
78	49.3	39.3	58.9
103	56.1	44.5	66.7



#70
Isopropylbenzene
Concen: 18.926 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.9	35.1

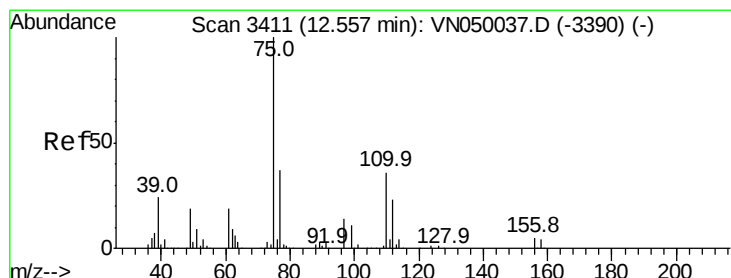
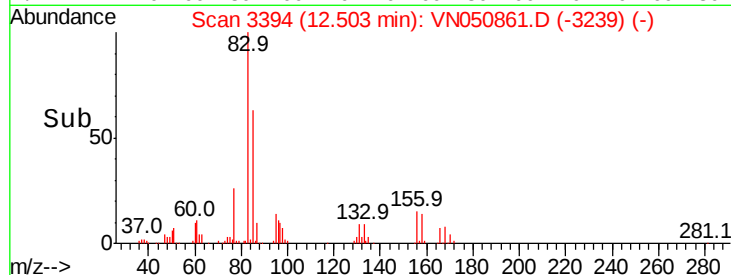
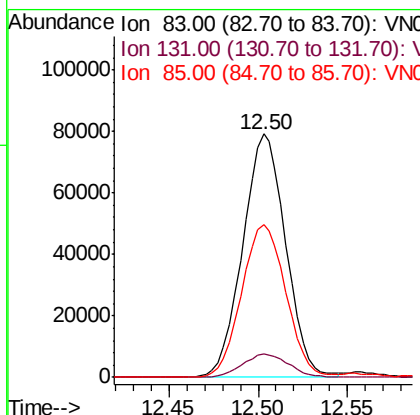
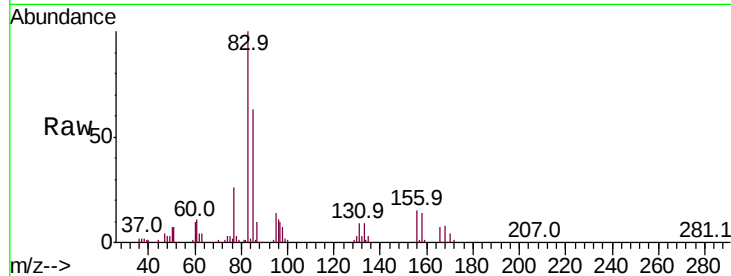




#71
 1,1,2,2-Tetrachloroethane
 Concen: 17.530 ug/l
 RT: 12.50 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

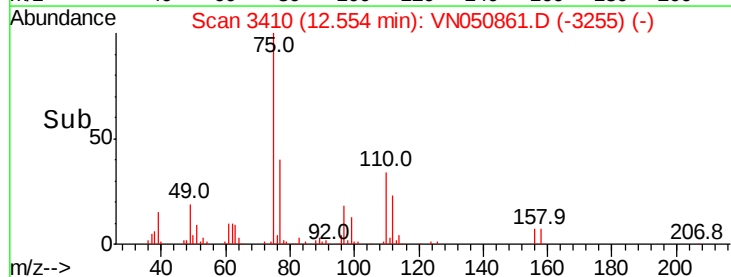
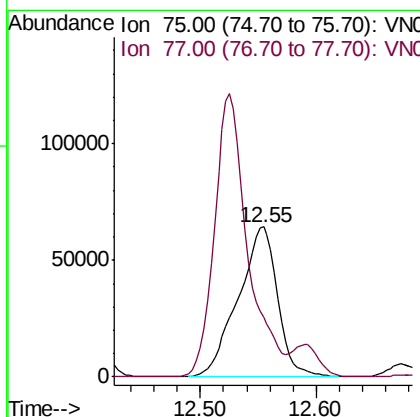
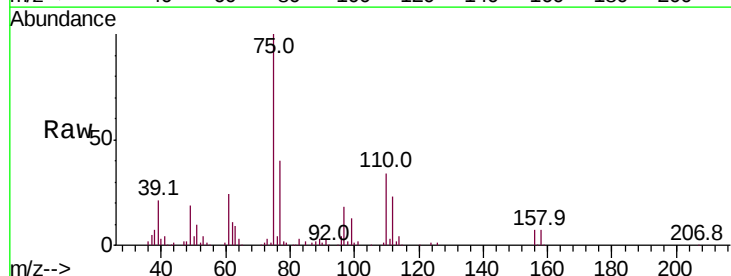
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

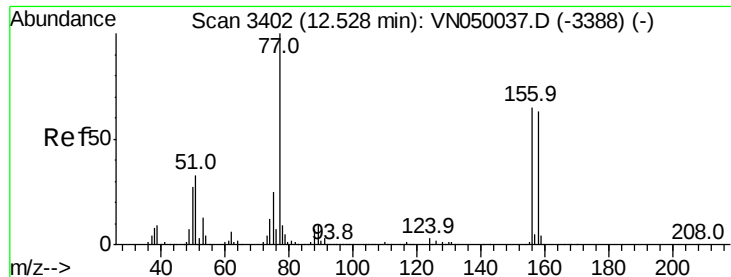
Tot Ion	83	Resp	133373
Ion Ratio	100	Lower	Upper
83	100		
131	10.2	5.2	15.6
85	64.6	31.7	95.1



#72
 1,2,3-Trichloropropane
 Concen: 23.523 ug/l
 RT: 12.55 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Tgt Ion	75	Resp	152859
Ion Ratio	100	Lower	Upper
75	100		
77	158.0	0.0	454.4





#73

Bromobenzene

Concen: 18.526 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

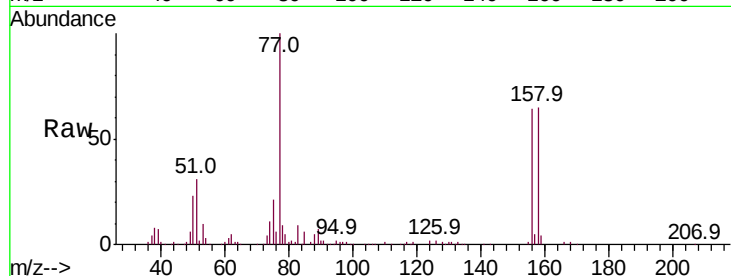
Tot Ion:156 Resp: 136763

Ion Ratio Lower Upper

156 100

77 176.6 0.0 359.8

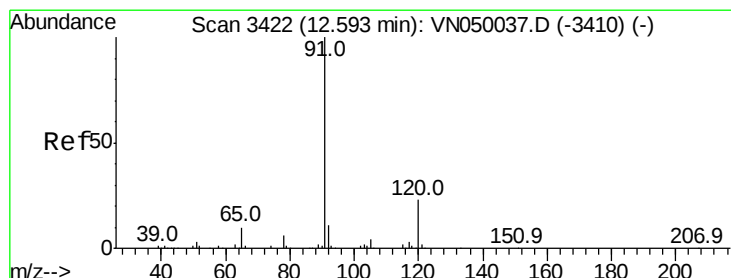
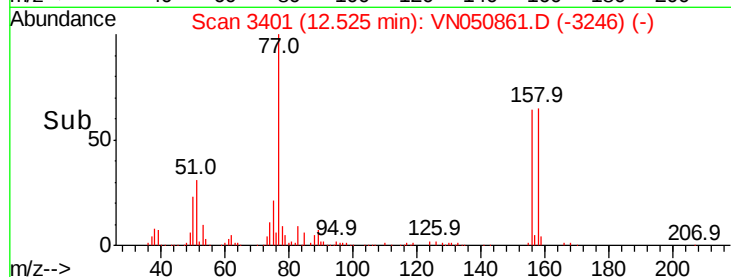
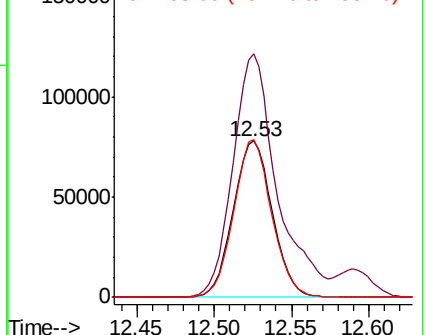
158 97.3 0.0 192.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 18.421 ug/l

RT: 12.59 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN050861.D

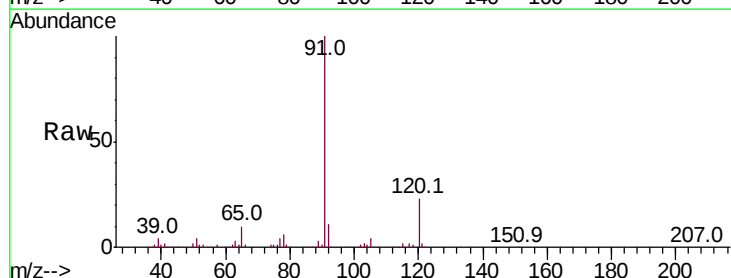
Acq: 24 Aug 2018 8:04

Tgt Ion: 91 Resp: 594517

Ion Ratio Lower Upper

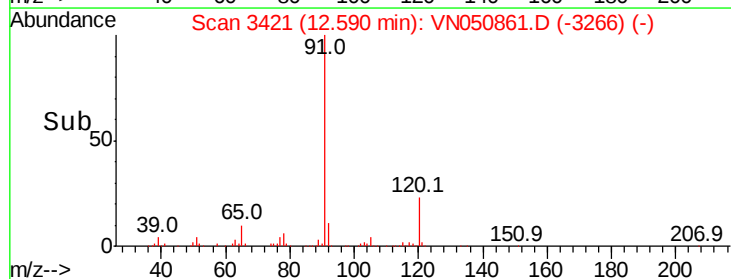
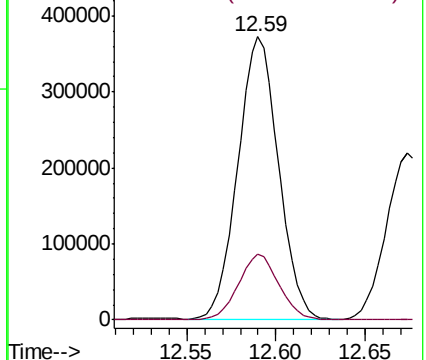
91 100

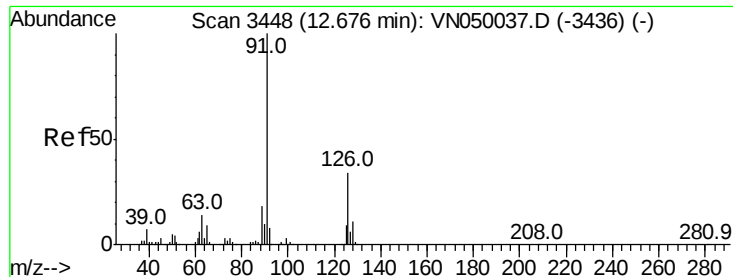
120 23.0 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.025 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

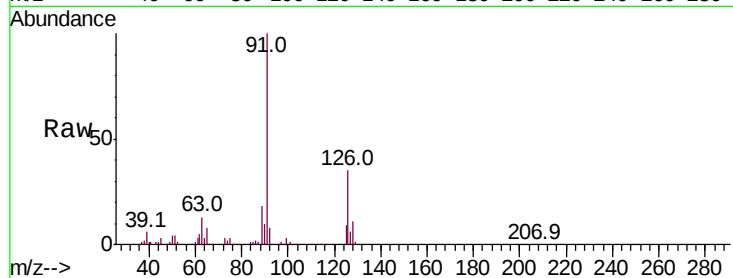
VSTDCCC020

Tot Ion: 91 Resp: 368796

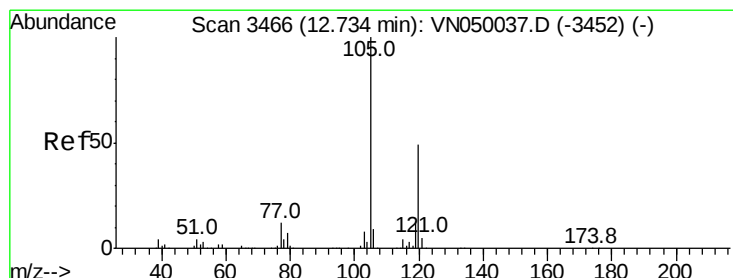
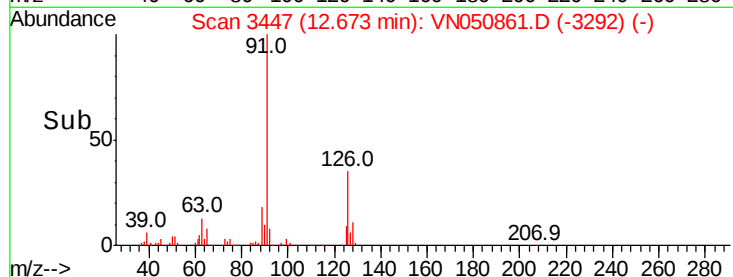
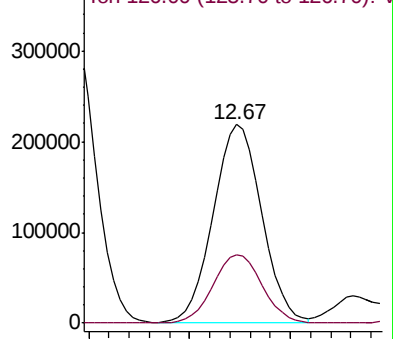
Ion Ratio Lower Upper

91 100

126 34.7 0.0 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3436) (-)



#76

1,3,5-Trimethylbenzene

Concen: 19.206 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050861.D

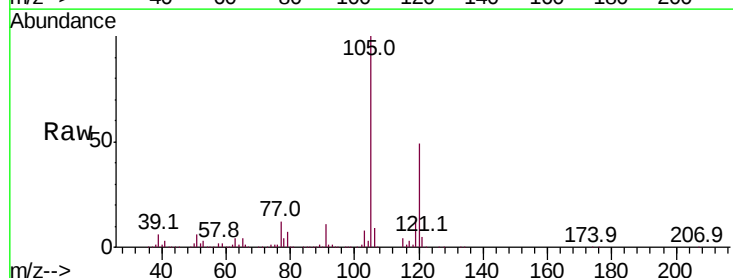
Acq: 24 Aug 2018 8:04

Tgt Ion: 105 Resp: 437156

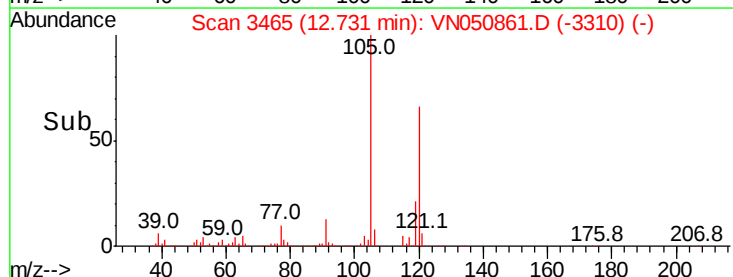
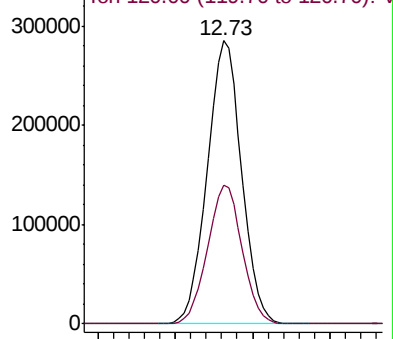
Ion Ratio Lower Upper

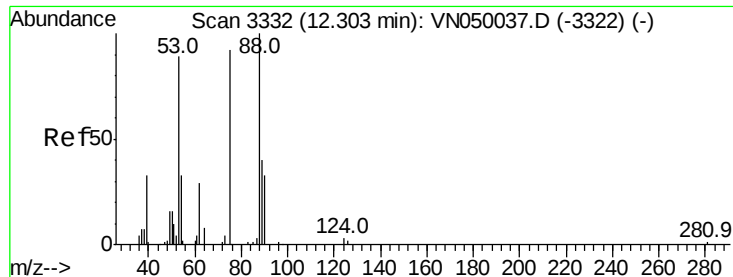
105 100

120 49.6 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): VN050037.D (-3452) (-)

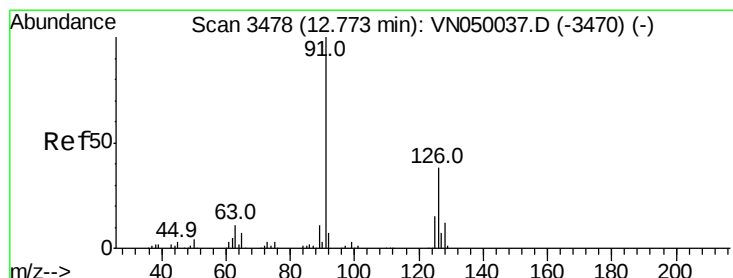
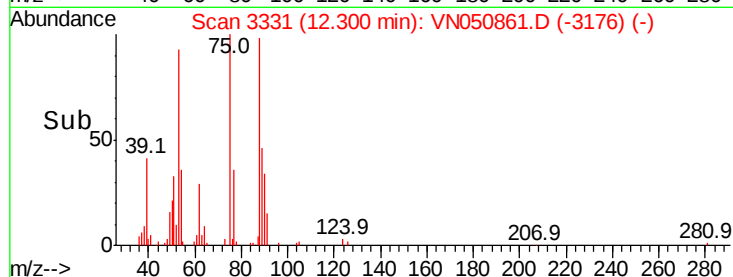
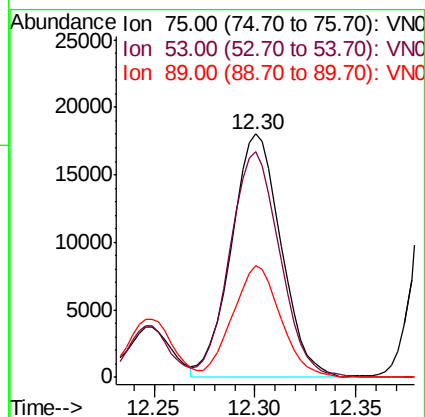
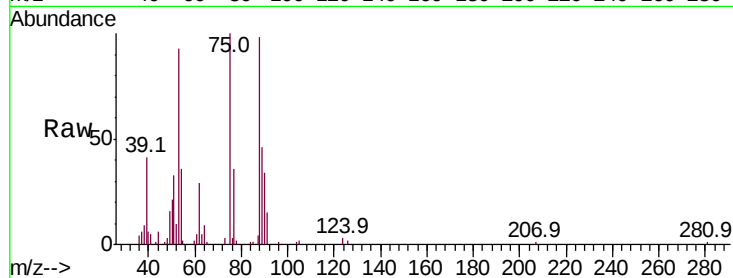




#77
t-1,4-Dichloro-2-butene
Concen: 14.647 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

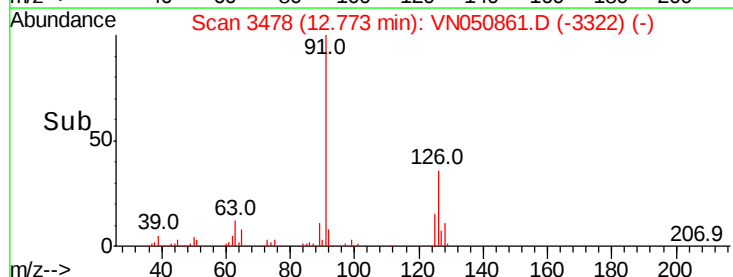
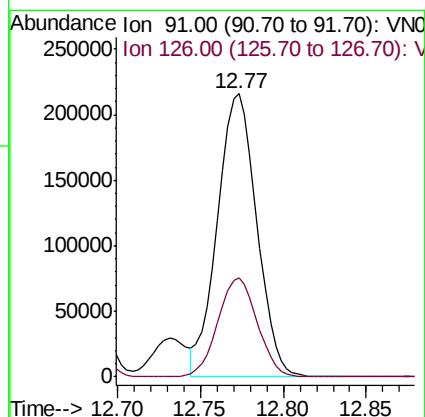
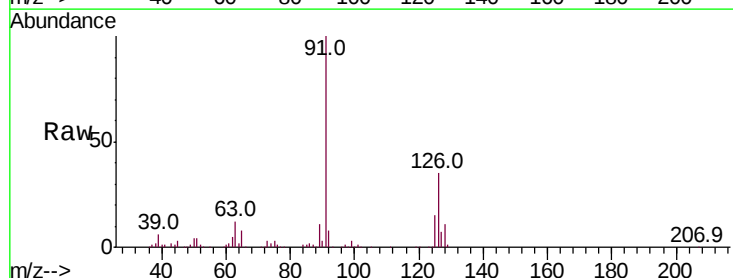
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

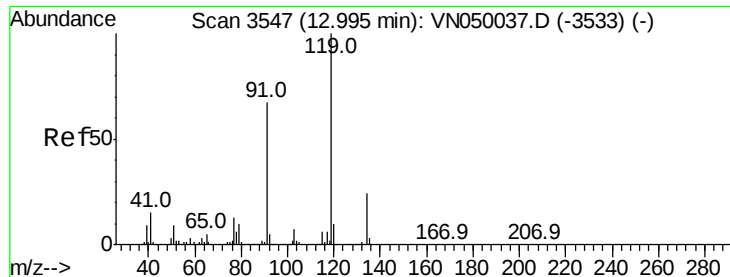
Tot Ion: 75 Resp: 31120
Ion Ratio Lower Upper
75 100
53 91.5 44.6 134.0
89 46.0 20.7 62.1



#78
4-Chlorotoluene
Concen: 18.511 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion: 91 Resp: 355594
Ion Ratio Lower Upper
91 100
126 35.1 0.0 68.4





#79

tert-butylbenzene

Concen: 18.942 ug/l

RT: 12.99 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

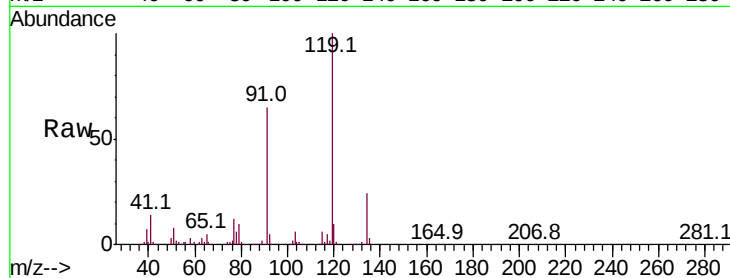
Tot Ion:119 Resp: 368606

Ion Ratio Lower Upper

119 100

91 63.0 0.0 126.8

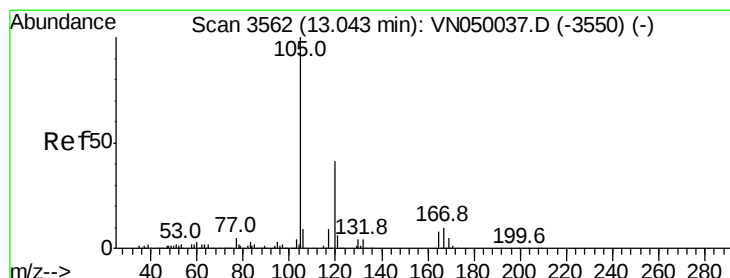
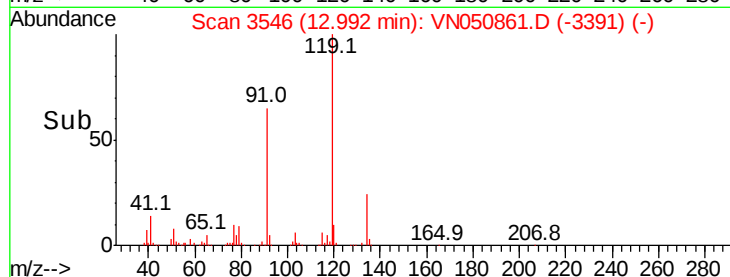
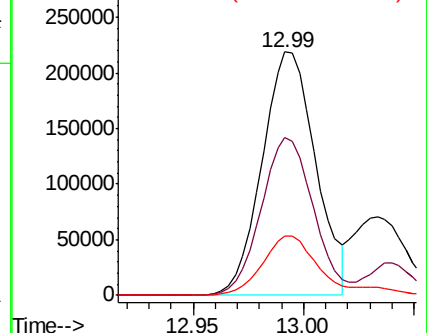
134 24.7 0.0 47.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 18.889 ug/l

RT: 13.04 min Scan# 3561

Delta R.T. -0.00 min

Lab File: VN050861.D

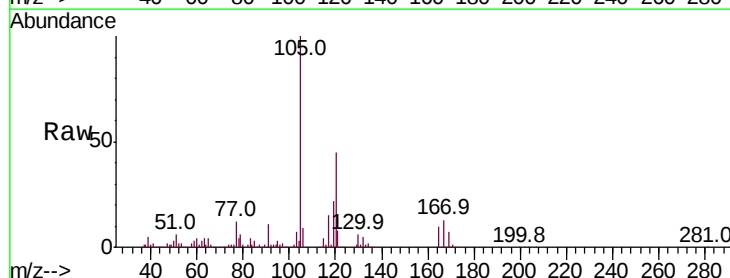
Acq: 24 Aug 2018 8:04

Tgt Ion:105 Resp: 435600

Ion Ratio Lower Upper

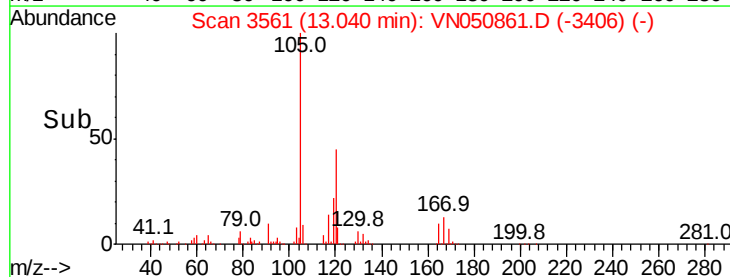
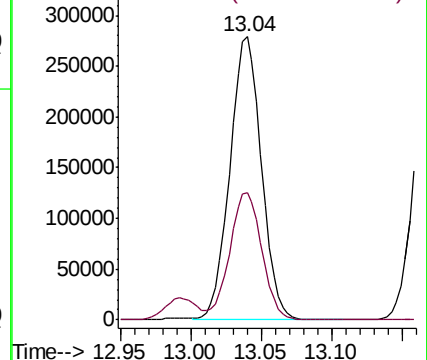
105 100

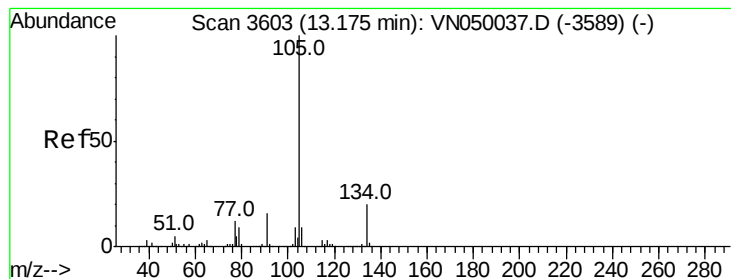
120 45.8 0.0 90.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 18.750 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

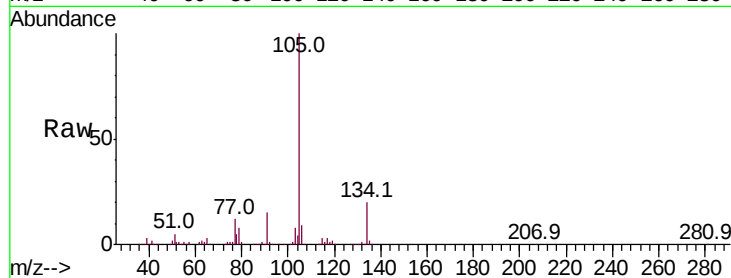
VSTDCCC020

Tot Ion:105 Resp: 495649

Ion Ratio Lower Upper

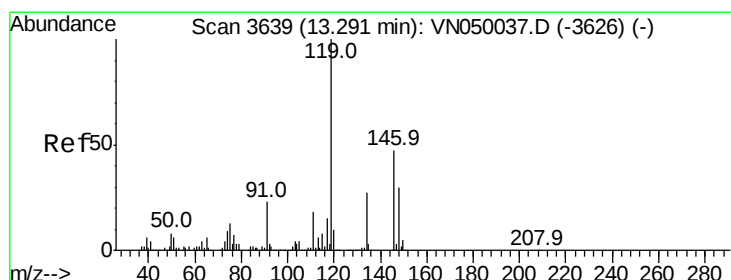
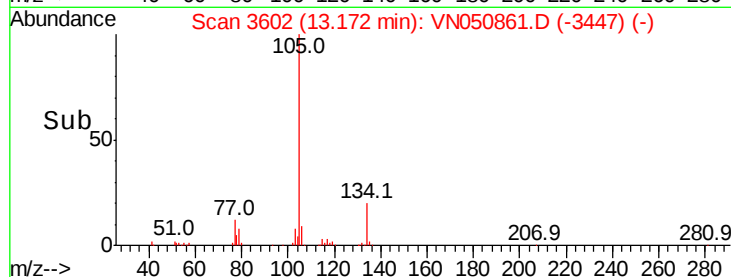
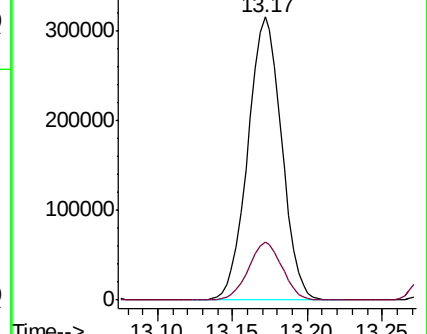
105 100

134 20.5 0.0 40.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 18.600 ug/l

RT: 13.29 min Scan# 3638

Delta R.T. -0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

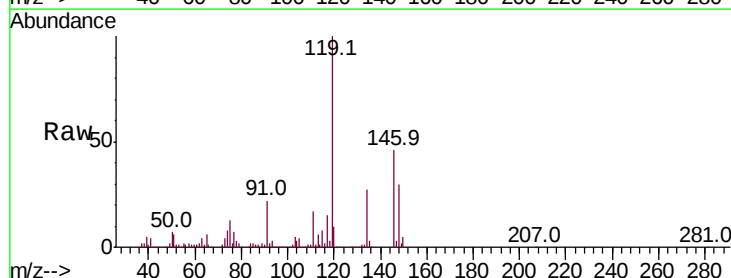
Tgt Ion:119 Resp: 419522

Ion Ratio Lower Upper

119 100

134 26.9 0.0 52.2

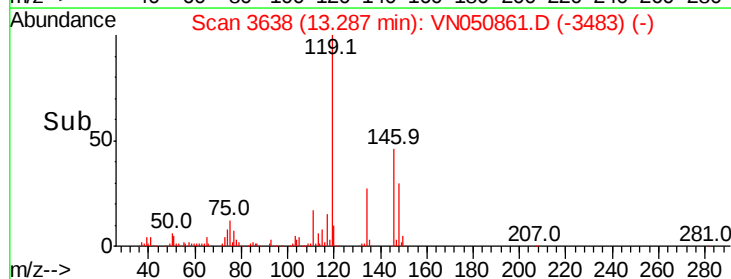
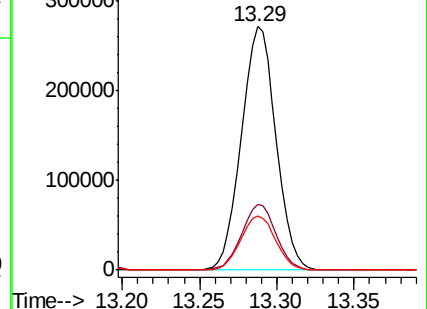
91 22.5 0.0 45.6

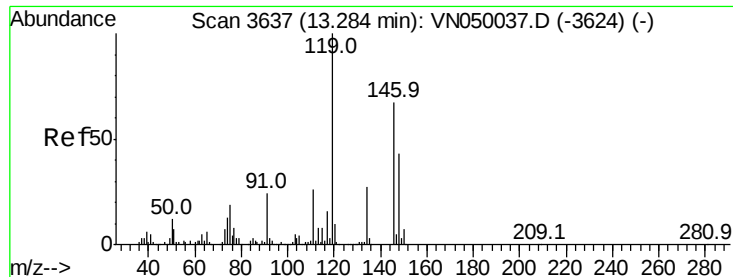


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

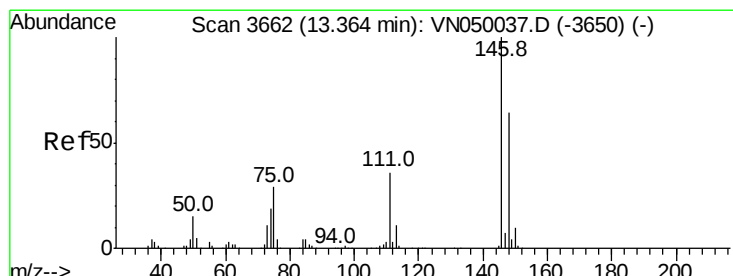
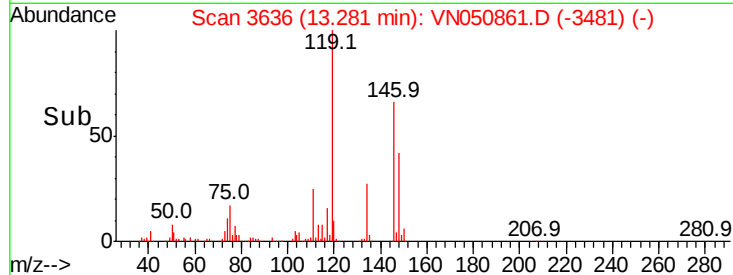
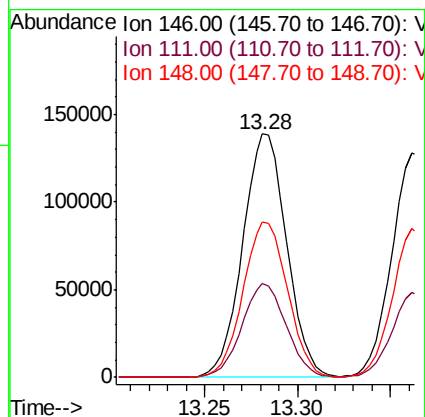
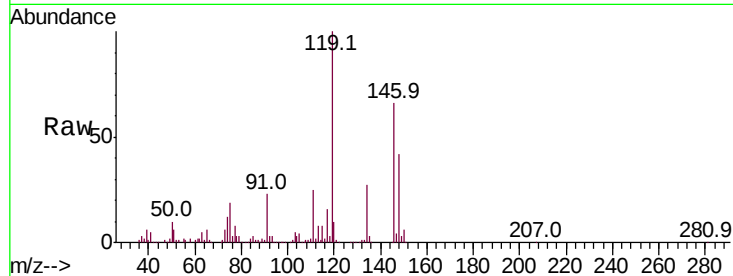




#83
 1,3-Dichlorobenzene
 Concen: 17.768 ug/l
 RT: 13.28 min Scan# 3636
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

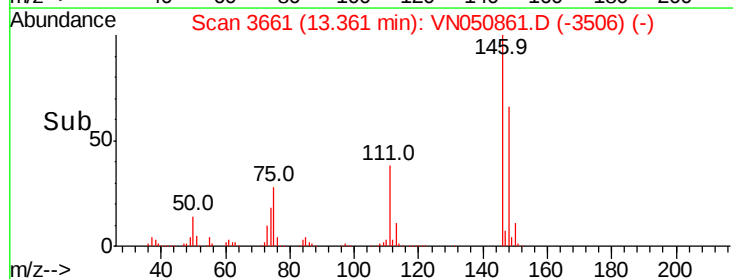
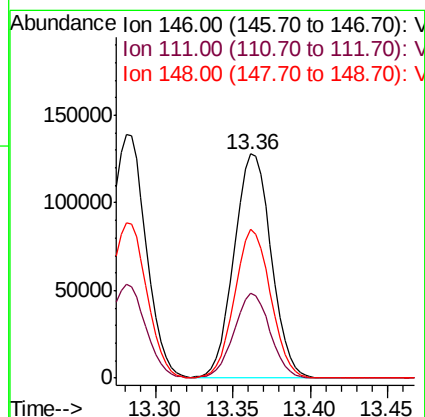
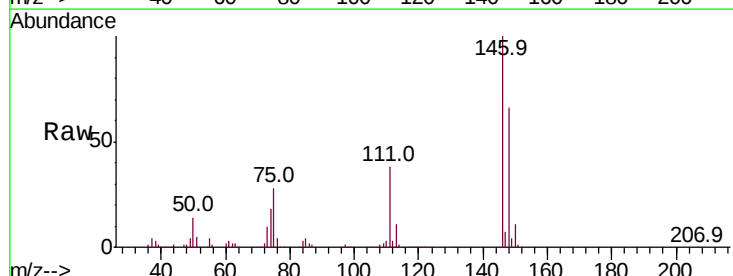
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

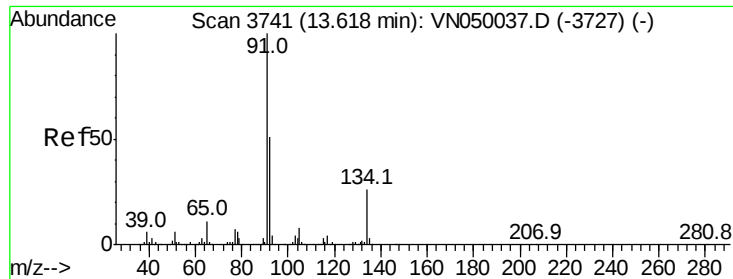
Tot Ion:146 Resp: 228391
 Ion Ratio Lower Upper
 146 100
 111 38.8 19.1 57.1
 148 64.8 31.9 95.9



#84
 1,4-Dichlorobenzene
 Concen: 17.614 ug/l
 RT: 13.36 min Scan# 3661
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Tgt Ion:146 Resp: 213956
 Ion Ratio Lower Upper
 146 100
 111 36.4 17.9 53.8
 148 64.3 32.4 97.0

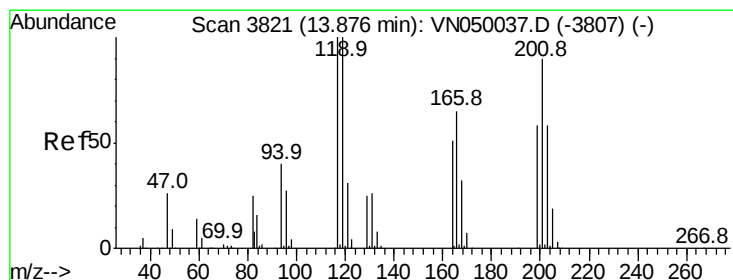
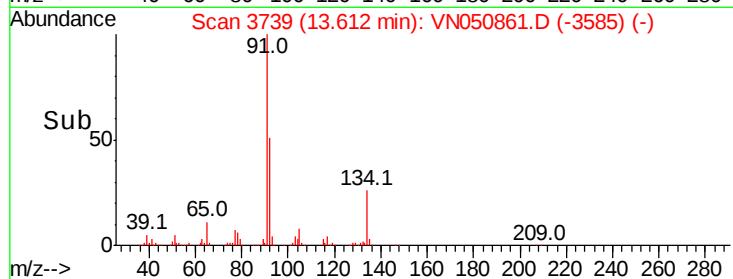
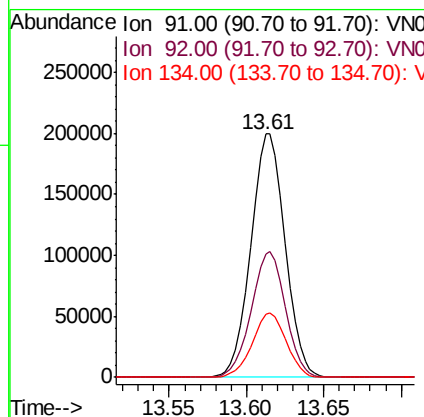
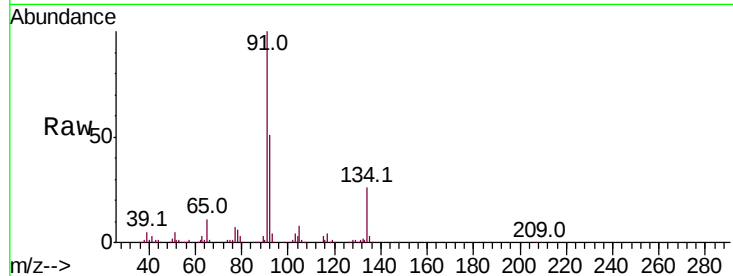




#85
n-Butylbenzene
Concen: 16.855 ug/l
RT: 13.61 min Scan# 3739
Delta R.T. -0.01 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

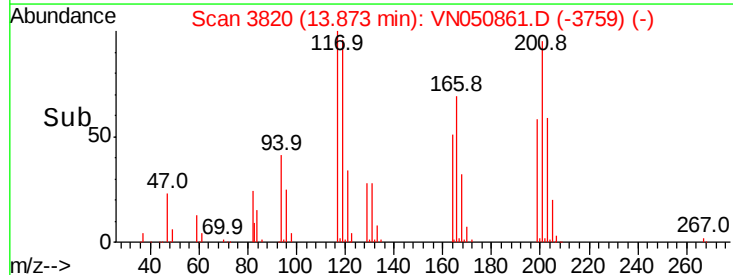
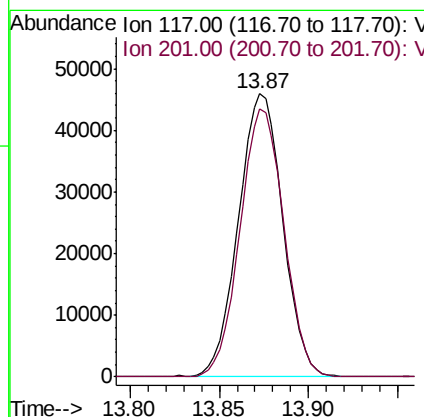
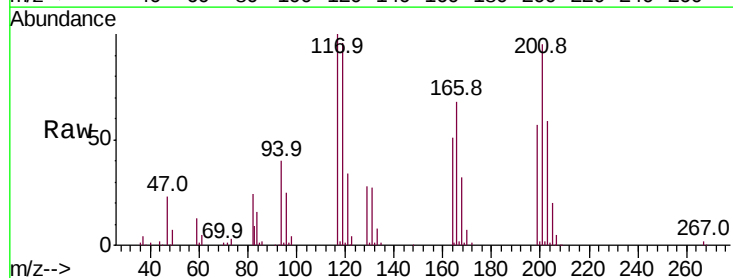
Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

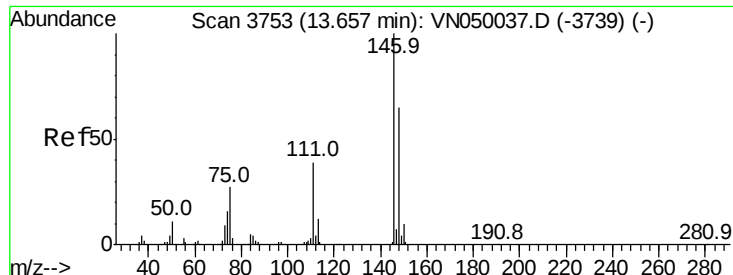
Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	0.0	102.8
134	26.3	0.0	51.0



#86
Hexachloroethane
Concen: 17.674 ug/l
RT: 13.87 min Scan# 3820
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.4	46.6	139.7





#87

1,2-Dichlorobenzene

Concen: 17.858 ug/l

RT: 13.65 min Scan# 3751

Delta R.T. -0.01 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

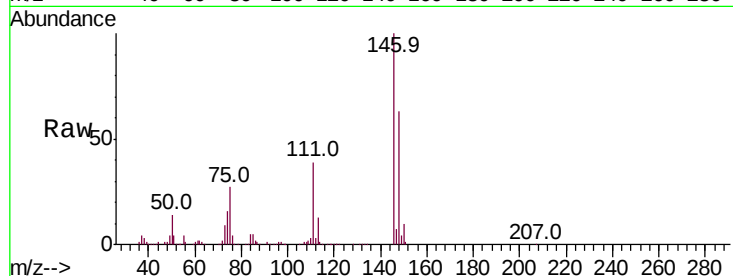
Tot Ion:146 Resp: 224372

Ion Ratio Lower Upper

146 100

111 39.4 19.8 59.3

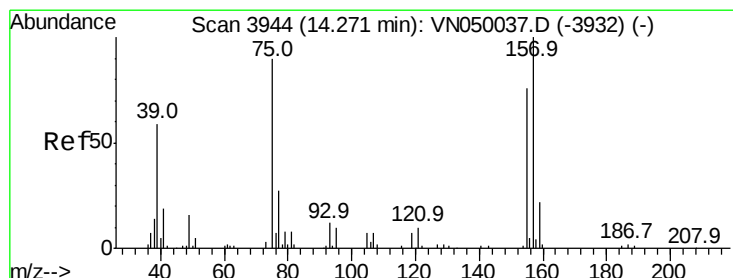
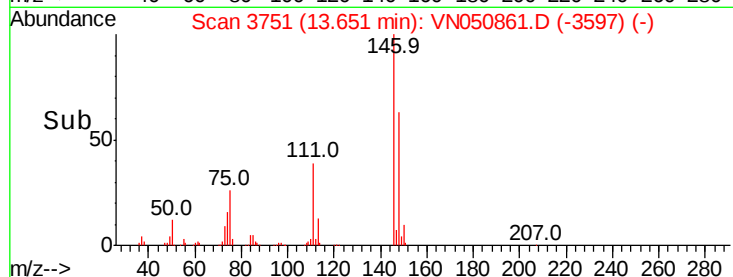
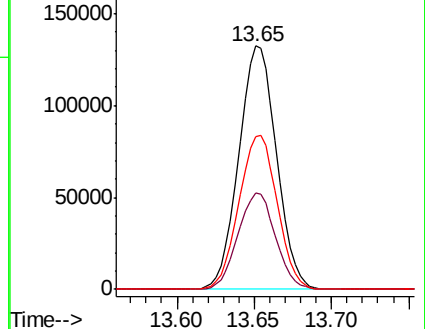
148 64.3 31.8 95.3



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



#88

1,2-Dibromo-3-Chloropropane

Concen: 14.637 ug/l

RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VN050861.D

Acq: 24 Aug 2018 8:04

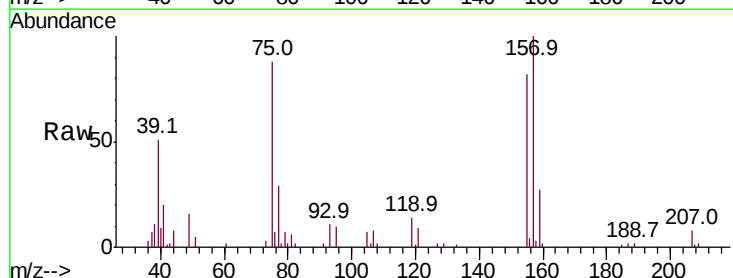
Tgt Ion: 75 Resp: 17349

Ion Ratio Lower Upper

75 100

155 93.9 73.0 109.6

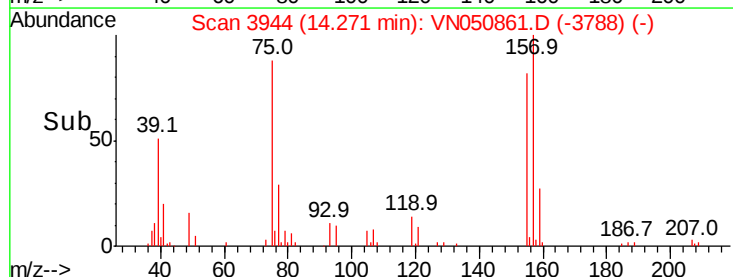
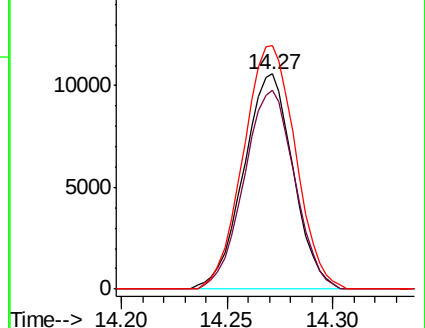
157 118.7 94.9 142.3

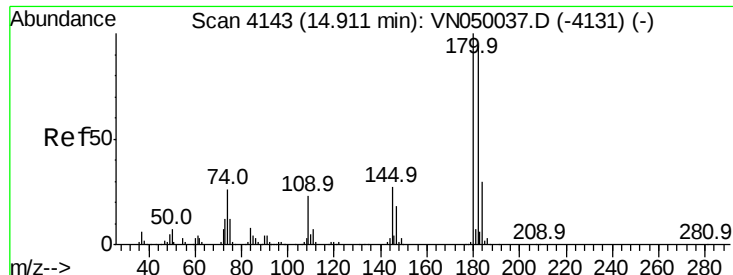


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

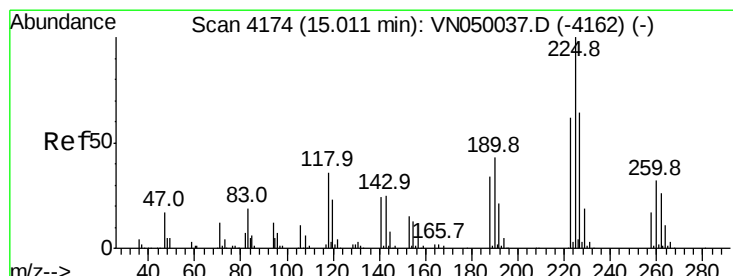
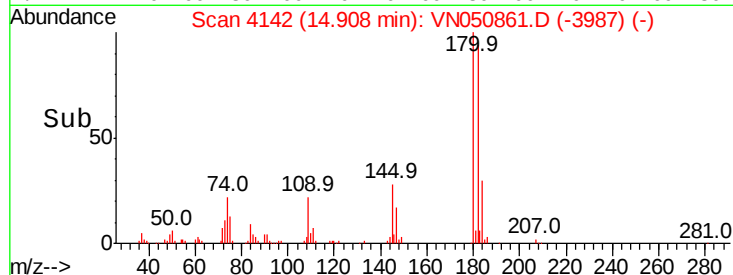
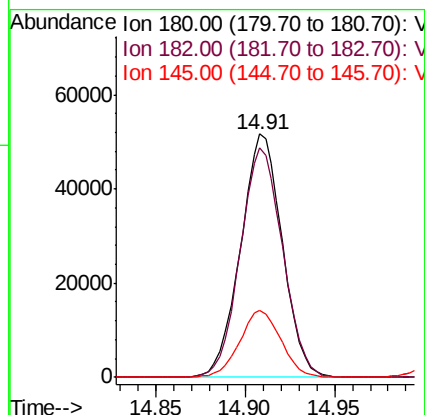
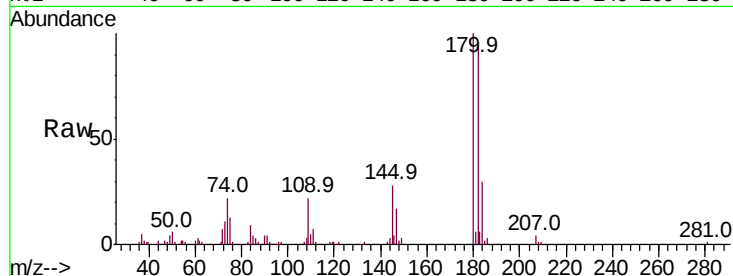




#89
 1,2,4-Trichlorobenzene
 Concen: 14.060 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. -0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

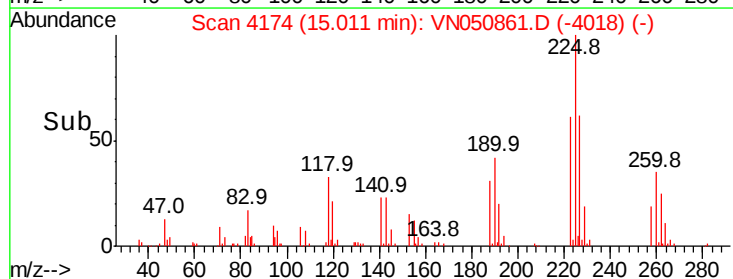
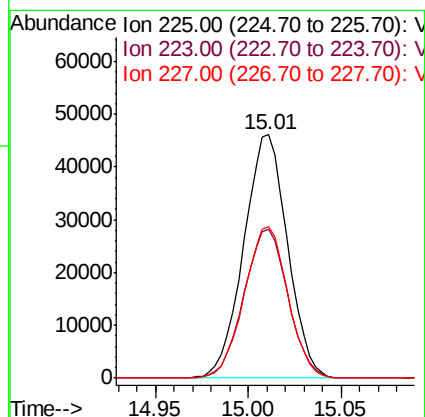
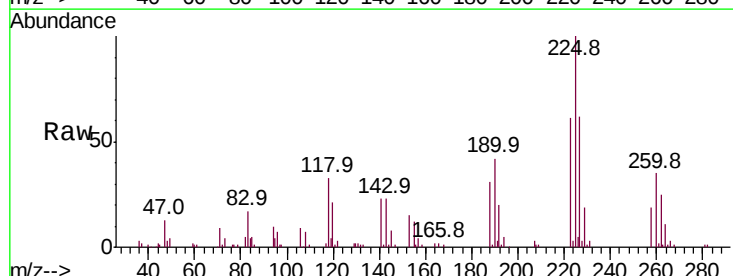
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

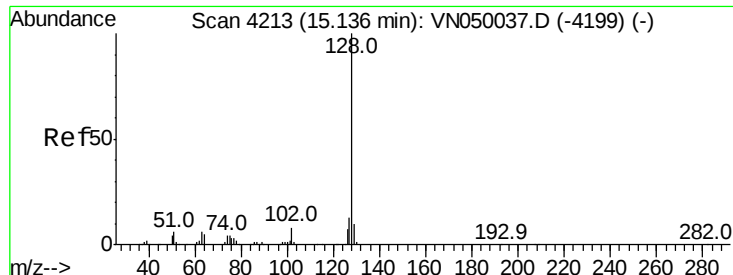
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.7	115.1
145	27.4	23.4	35.0



#90
 Hexachlorobutadiene
 Concen: 19.160 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050861.D
 Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.6	0.0	124.4
227	61.8	0.0	133.0

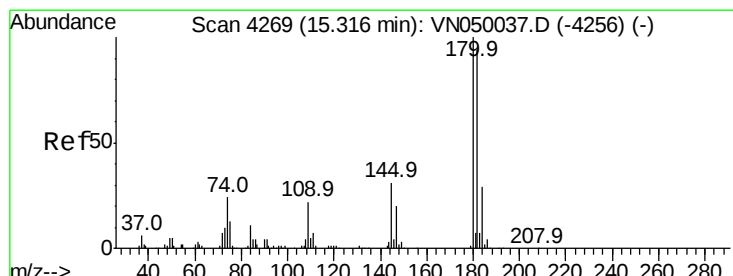
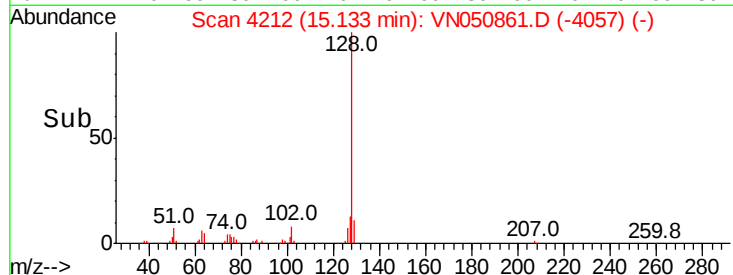
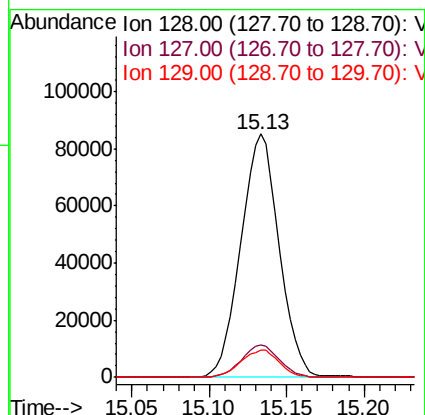
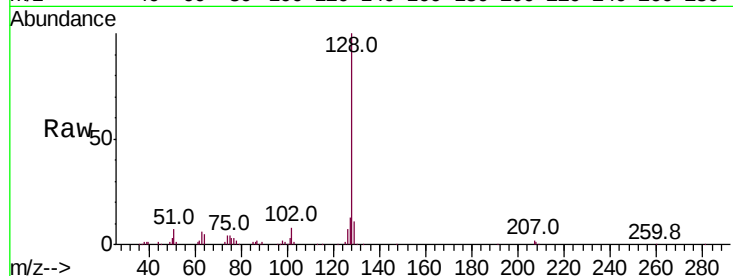




#91
Naphthalene
Concen: 15.445 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.4
129	11.3	9.0	13.4



#92
1,2,3-Trichlorobenzene
Concen: 14.482 ug/l
RT: 15.31 min Scan# 4268
Delta R.T. -0.00 min
Lab File: VN050861.D
Acq: 24 Aug 2018 8:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.8	0.0	188.8
145	30.0	0.0	60.8

