

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055068.D
 Acq On : 16 Apr 2019 10:08
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Apr 17 01:33:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	73729	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	396290	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	352546	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	170029	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	12.40	95	161228	29.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.93%
63) Toluene-d8	10.09	98	506371	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	88085	20.314	ug/l 100
3) Chloromethane	2.06	50	121017	20.659	ug/l 96
4) Vinyl Chloride	2.19	62	104717	20.673	ug/l 99
5) Bromomethane	2.56	94	61514	20.994	ug/l 95
6) Chloroethane	2.70	64	57067	20.115	ug/l 99
7) Trichlorofluoromethane	3.02	101	131569	20.326	ug/l 95
8) Diethyl Ether	3.41	74	42624	20.509	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	74201	20.970	ug/l 96
10) 1,1-Dichloroethene	3.73	96	64812	19.811	ug/l 96
11) Methyl Iodide	3.94	142	100575	20.315	ug/l 98
12) Methyl Acetate	4.33	43	96026	23.864	ug/l 95
13) Acrolein	3.60	56	34754	98.548	ug/l 99
14) Acrylonitrile	4.99	53	184797	112.095	ug/l 97
15) Acetone	3.82	58	56954	139.613	ug/l 100
16) Carbon Disulfide	4.04	76	217187	19.792	ug/l 99
17) Allyl chloride	4.31	41	170274	21.135	ug/l 98
18) Methylene Chloride	4.54	84	101946	21.082	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	88381	20.753	ug/l 97
20) Diisopropyl ether	5.96	45	342552	20.989	ug/l 98
21) 1,1-Dichloroethane	5.84	63	182562	20.943	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	101015	20.407	ug/l 97
23) tert-Butyl Alcohol	4.82	59	30221	114.967	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	244178	22.229	ug/l # 66
25) Chloroform	7.37	83	174886	20.944	ug/l 99
26) Cyclohexane	7.65	56	162814	20.130	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	131593	21.322	ug/l 99
30) 2-Butanone	6.84	43	266525	130.097	ug/l 99
31) 2,2-Dichloropropane	6.82	77	124218	21.868	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	142069	21.778	ug/l 98
33) Carbon Tetrachloride	7.77	117	119741	21.201	ug/l 99
34) Benzene	8.04	78	390339	21.342	ug/l 98
35) Methacrylonitrile	7.18	41	56141	23.250	ug/l 94
36) 1,2-Dichloroethane	8.12	62	134017	21.440	ug/l 100
37) Trichloroethene	8.83	130	99329	21.304	ug/l 94
38) Methylcyclohexane	9.08	83	140870	19.682	ug/l 99
39) 1,2-Dichloropropane	9.12	63	109738	21.730	ug/l 99
40) Dibromomethane	9.21	93	62436	21.873	ug/l 99

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	124708	21.168	ug/l	99
42) Vinyl Acetate	5.90	43	1152987	111.324	ug/l	100
43) Ethyl Acetate	6.94	43	86893	20.820	ug/l #	67
44) Isopropyl Acetate	8.17	43	159594	22.564	ug/l	100
45) 1,4-Dioxane	9.20	88	17726	452.370	ug/l #	79
46) Methyl methacrylate	9.20	41	79576	21.749	ug/l	97
47) n-amyl Acetate	12.07	43	120469	23.125	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	114744	21.210	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	140633	21.057	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	84294	21.742	ug/l	97
51) Ethyl methacrylate	10.43	69	100119	21.663	ug/l	99
52) 1,3-Dichloropropane	10.71	76	150756	22.191	ug/l	99
53) Dibromochloromethane	10.90	129	83156	20.822	ug/l	99
54) 1,2-Dibromoethane	11.00	107	78817	21.654	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	189478	98.067	ug/l	99
56) Bromoform	12.12	173	50544	20.142	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	465469	114.490	ug/l	98
59) 2-Hexanone	10.75	43	322539	124.881	ug/l	100
61) Tetrachloroethene	10.63	164	95867	20.895	ug/l	97
62) Toluene	10.16	91	407931	21.000	ug/l	99
64) Chlorobenzene	11.43	112	240684	20.524	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	91562	21.953	ug/l	98
66) Ethyl Benzene	11.51	91	434535	20.868	ug/l	98
67) m/p-Xylenes	11.62	106	328633	42.459	ug/l	97
68) o-Xylene	11.95	106	162774	21.281	ug/l	98
69) Styrene	11.96	104	248003	20.880	ug/l	99
70) Isopropylbenzene	12.25	105	427369	20.897	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	104823	22.410	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	123803	32.049	ug/l	54
73) Bromobenzene	12.53	156	99066	20.494	ug/l	97
74) n-propylbenzene	12.59	91	473904	20.699	ug/l	100
75) 2-Chlorotoluene	12.67	91	291415	21.104	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	344060	20.809	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	20120	20.664	ug/l	92
78) 4-Chlorotoluene	12.77	91	272689	20.726	ug/l	99
79) tert-butylbenzene	12.99	119	301884	21.102	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	340099	20.939	ug/l	99
81) sec-Butylbenzene	13.17	105	391728	20.493	ug/l	100
82) p-Isopropyltoluene	13.29	119	330638	20.495	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	166877	20.636	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	156750	20.398	ug/l	98
85) n-Butylbenzene	13.61	91	244481	19.024	ug/l	98
86) Hexachloroethane	13.87	117	51755	20.040	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	167148	21.106	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12874	20.709	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	64705	18.275	ug/l	95
90) Hexachlorobutadiene	15.01	225	55125	21.354	ug/l	98
91) Naphthalene	15.13	128	140981	19.016	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	70552	19.924	ug/l	98

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
Response via : Initial Calibration

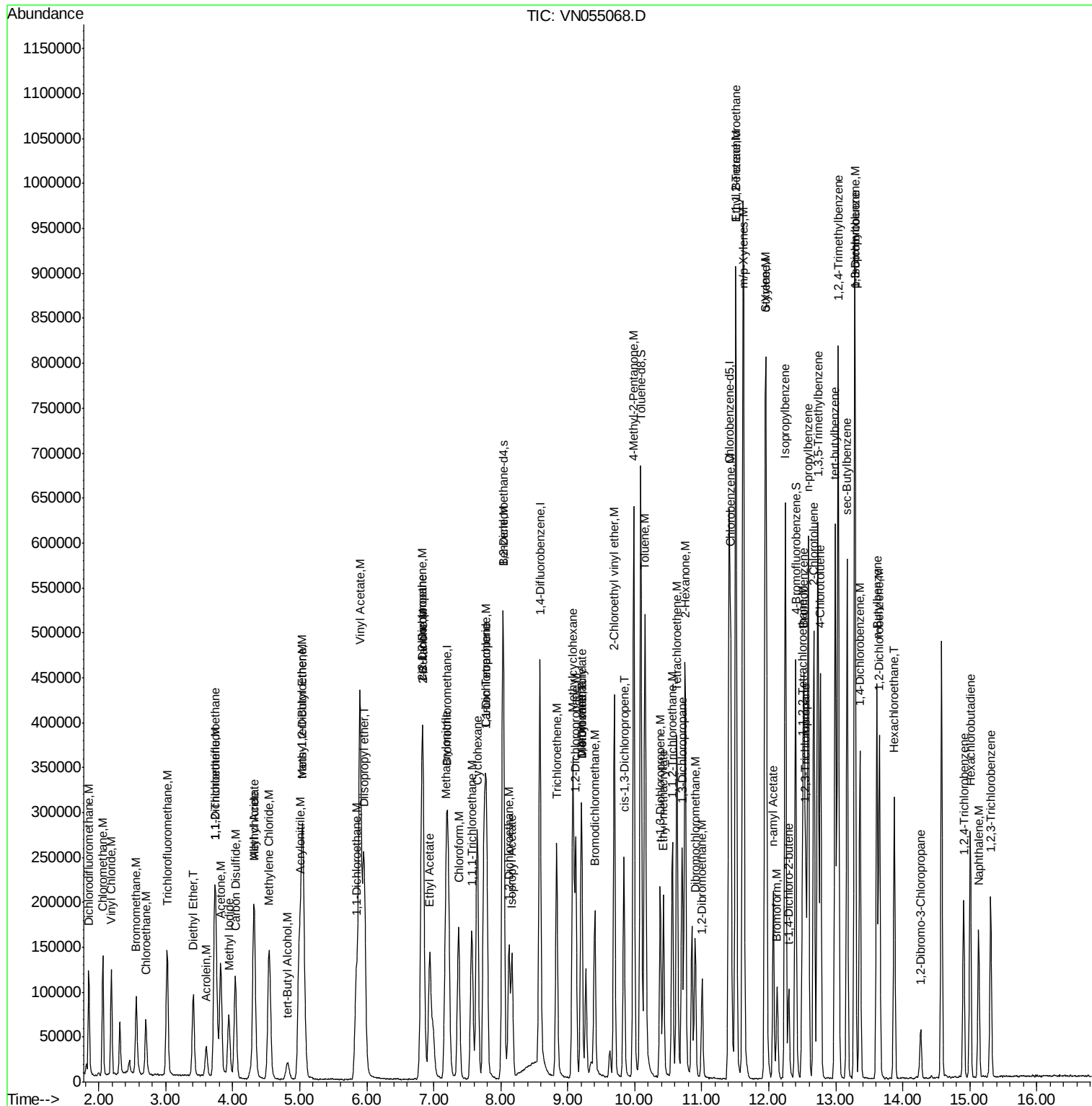
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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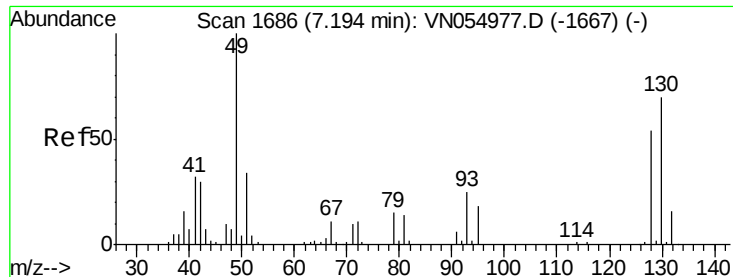
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Client Sample Id :
VSTDCCC020

Quant Time: Apr 17 01:33:34 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Apr 12 07:55:25 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

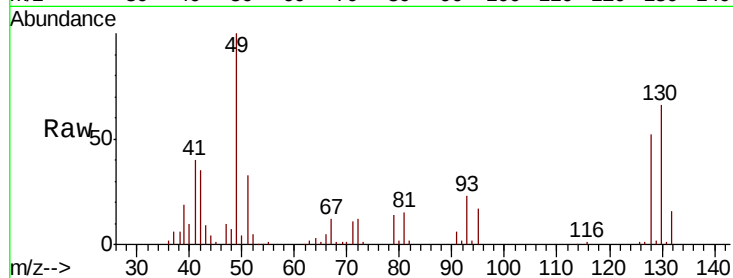
Tot Ion:128 Resp: 73729

Ion Ratio Lower Upper

128 100

49 194.0 0.0 480.3

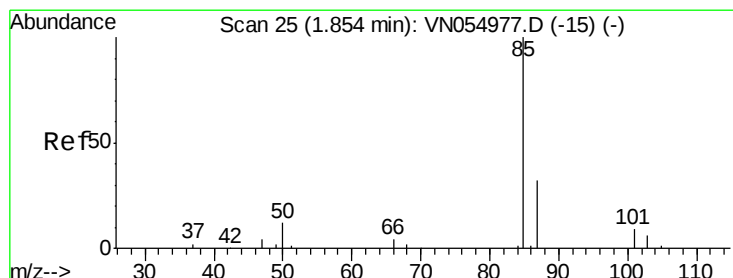
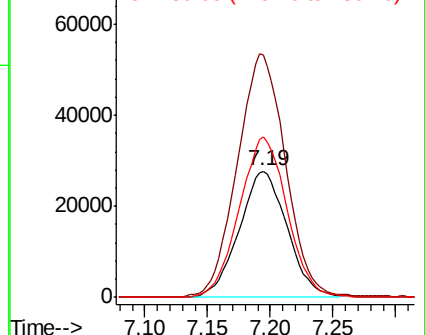
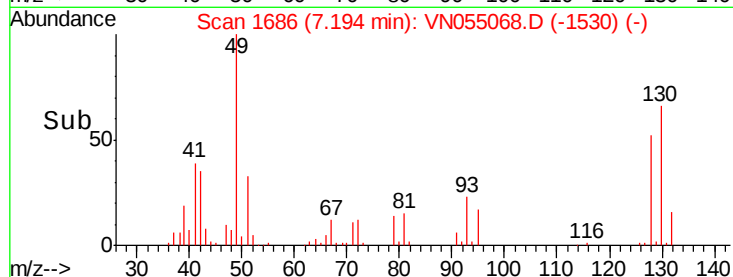
130 126.7 0.0 322.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 20.314 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055068.D

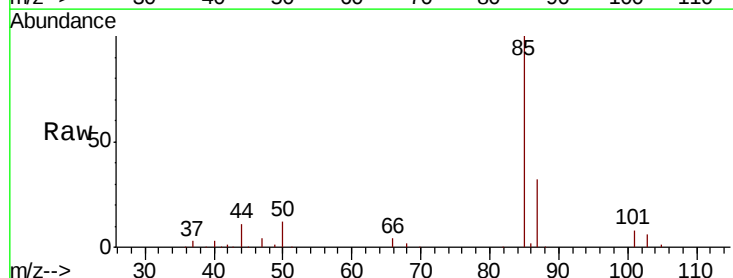
Acq: 16 Apr 2019 10:08

Tgt Ion: 85 Resp: 88085

Ion Ratio Lower Upper

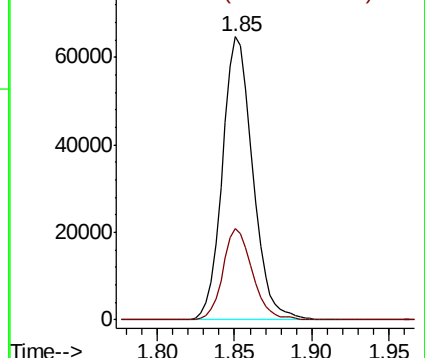
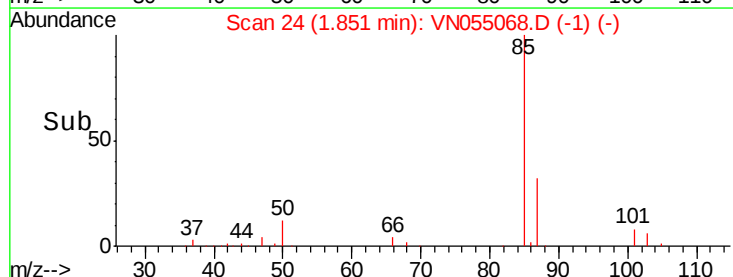
85 100

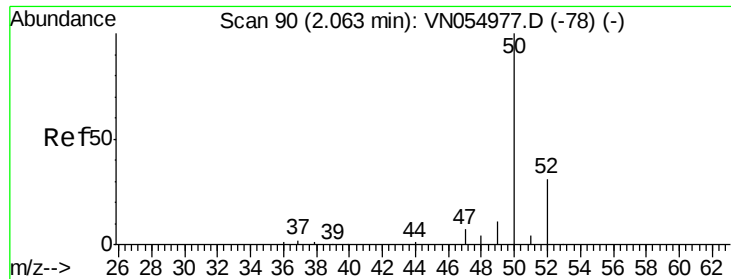
87 32.2 16.1 48.3



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

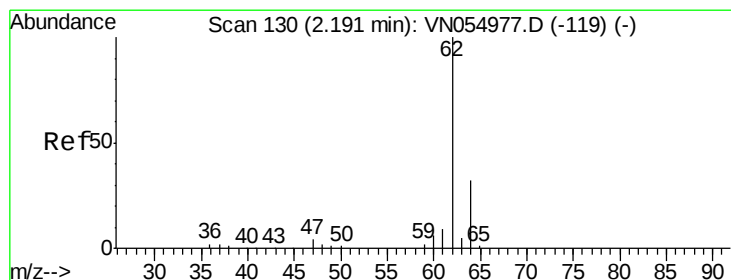
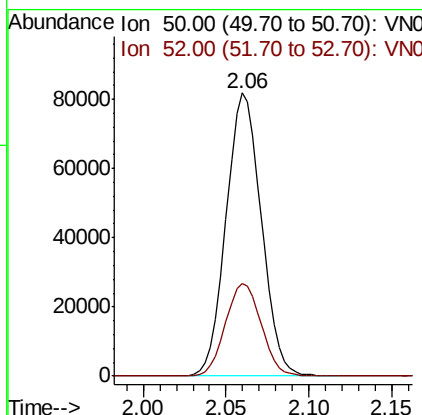
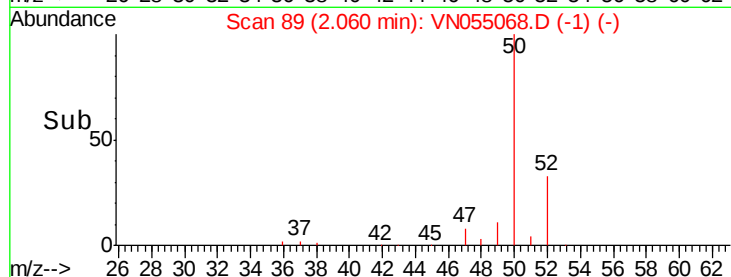
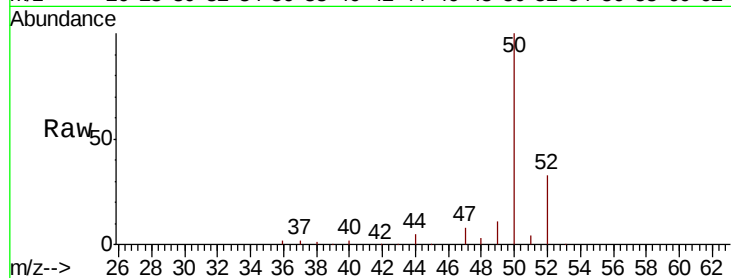




#3
 Chloromethane
 Concen: 20.659 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

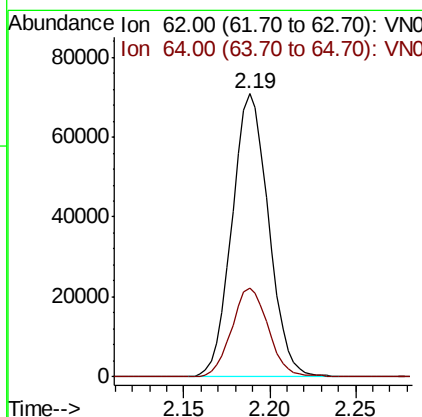
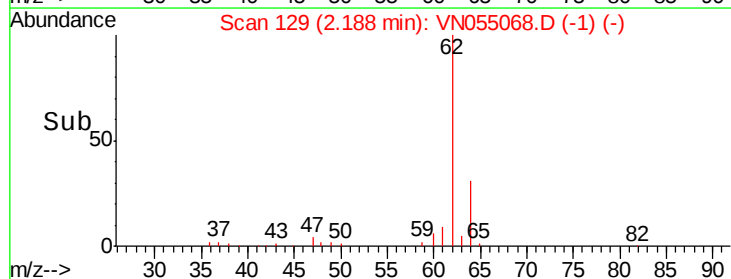
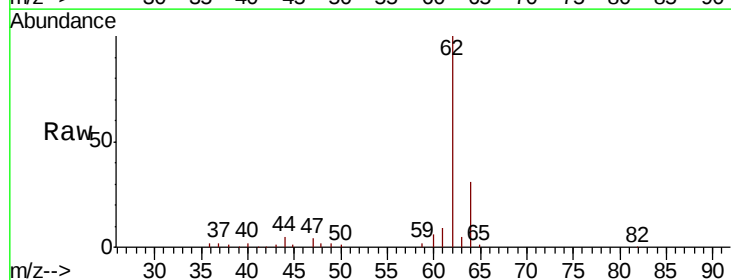
Instrument :
 MSVOA_N
 ClientSampleId :
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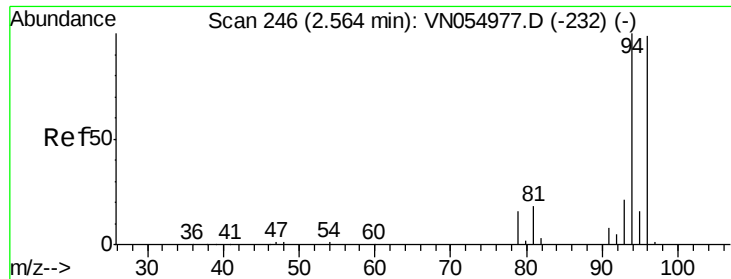
Tot Ion: 50 Resp: 121017
 Ion Ratio Lower Upper
 50 100
 52 32.6 24.5 36.7



#4
 Vinyl Chloride
 Concen: 20.673 ug/l
 RT: 2.19 min Scan# 129
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 62 Resp: 104717
 Ion Ratio Lower Upper
 62 100
 64 31.4 25.6 38.4





#5

Bromomethane

Concen: 20.994 ug/l

RT: 2.56 min Scan# 245

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

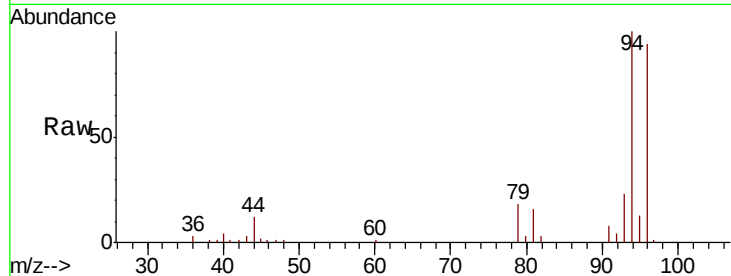
VSTDCCC020

Tot Ion: 94 Resp: 61514

Ion Ratio Lower Upper

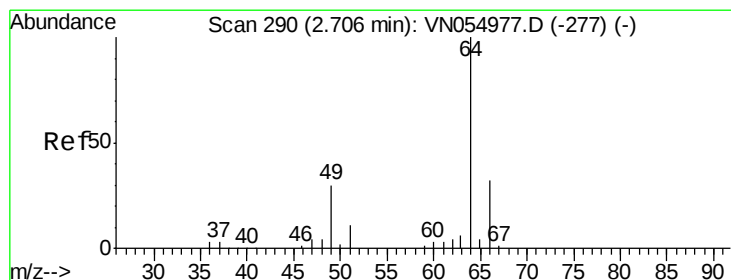
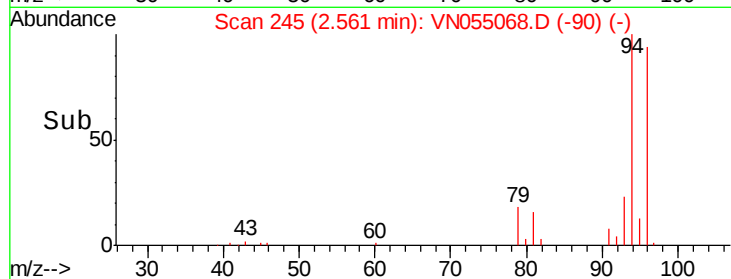
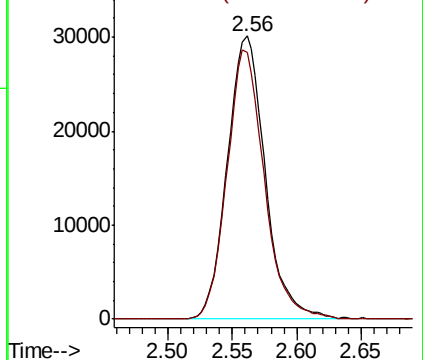
94 100

96 94.2 79.1 118.7



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.115 ug/l

RT: 2.70 min Scan# 289

Delta R.T. -0.00 min

Lab File: VN055068.D

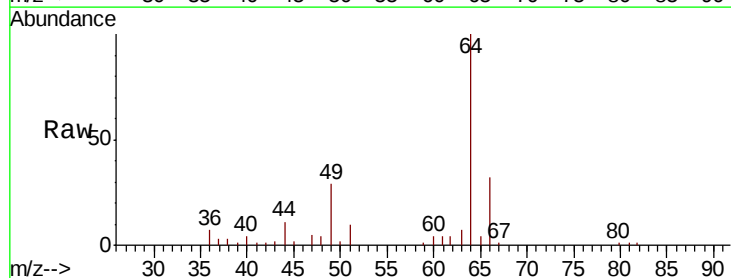
Acq: 16 Apr 2019 10:08

Tgt Ion: 64 Resp: 57067

Ion Ratio Lower Upper

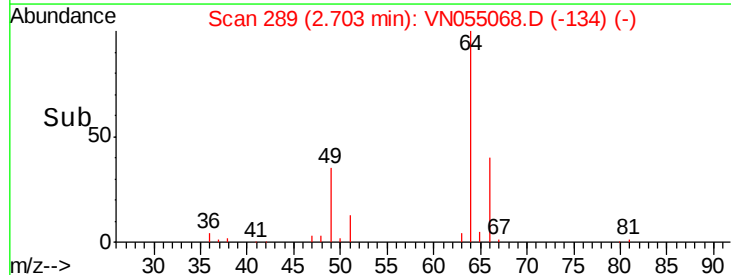
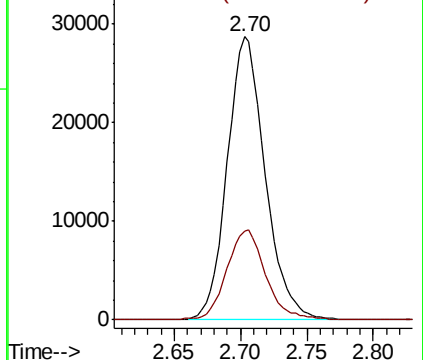
64 100

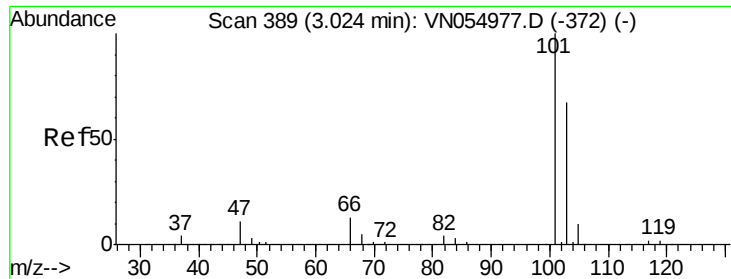
66 31.6 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0



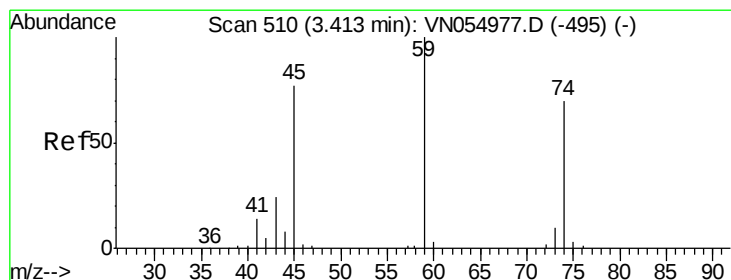
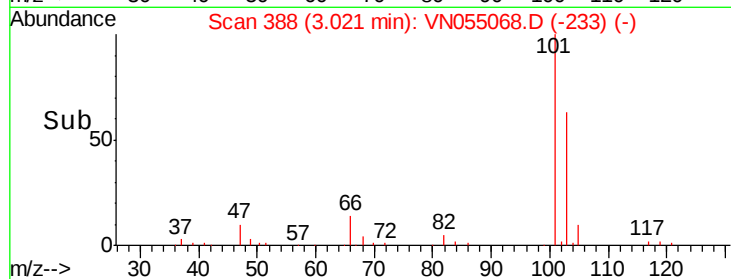
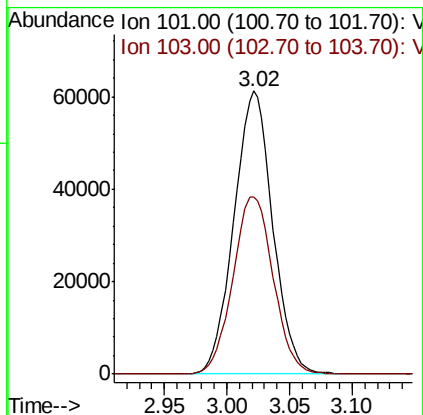
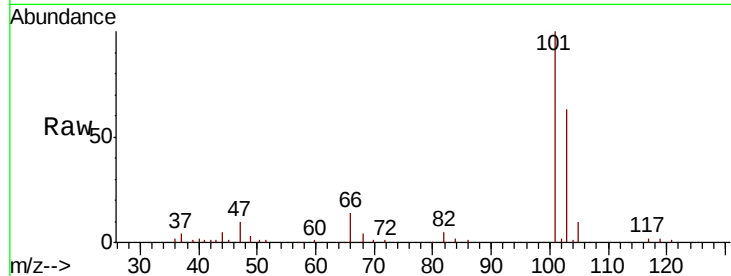


#7

Trichlorofluoromethane
 Concen: 20.326 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Instrument :
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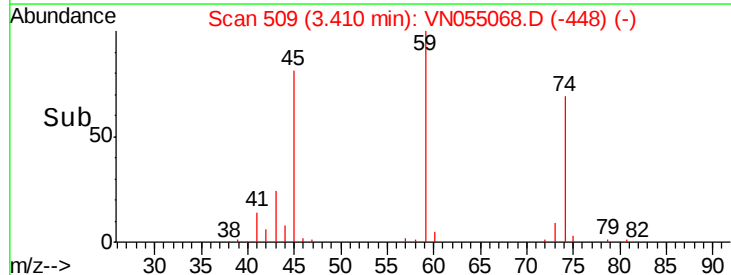
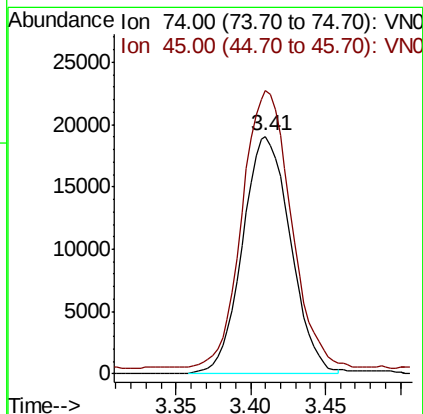
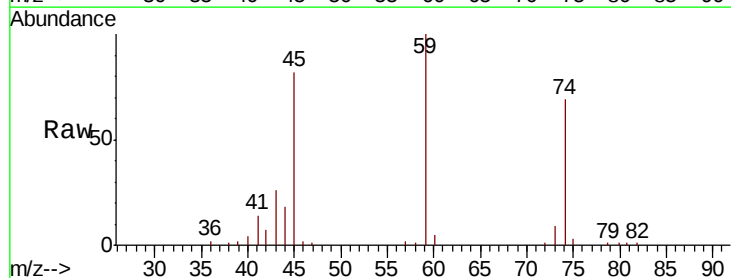
Tot Ion:101 Resp: 131569
 Ion Ratio Lower Upper
 101 100
 103 62.7 53.4 80.0

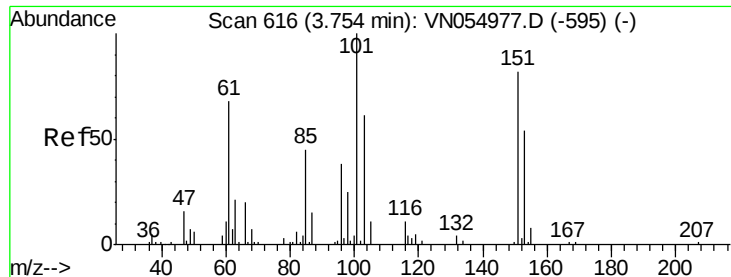


#8

Diethyl Ether
 Concen: 20.509 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 74 Resp: 42624
 Ion Ratio Lower Upper
 74 100
 45 118.7 22.9 205.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.970 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.01 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

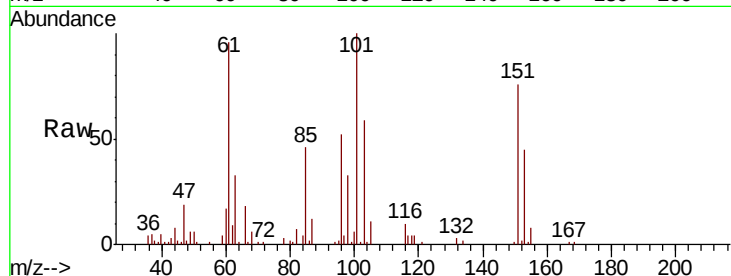
Tot Ion:101 Resp: 74201

Ion Ratio Lower Upper

101 100

85 45.5 0.0 91.4

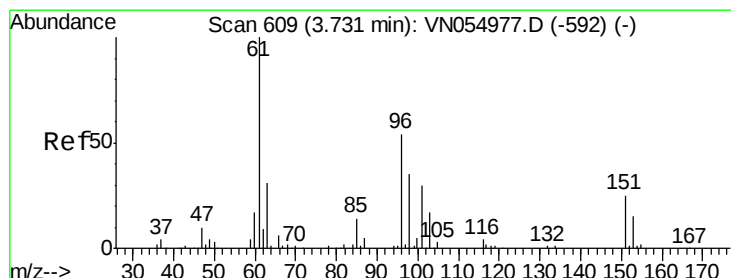
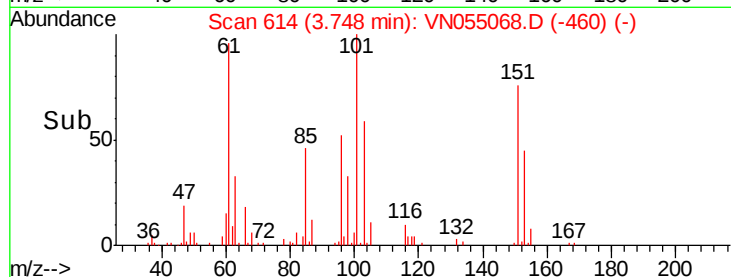
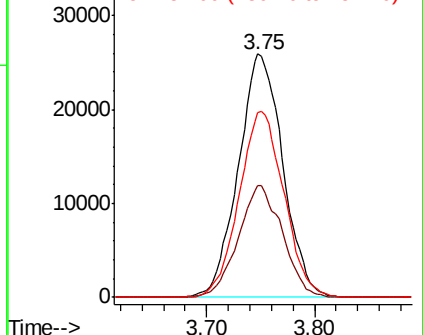
151 77.2 0.0 165.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 19.811 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

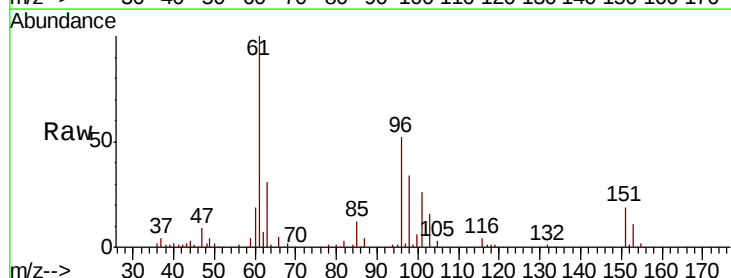
Tgt Ion: 96 Resp: 64812

Ion Ratio Lower Upper

96 100

61 192.3 148.4 222.6

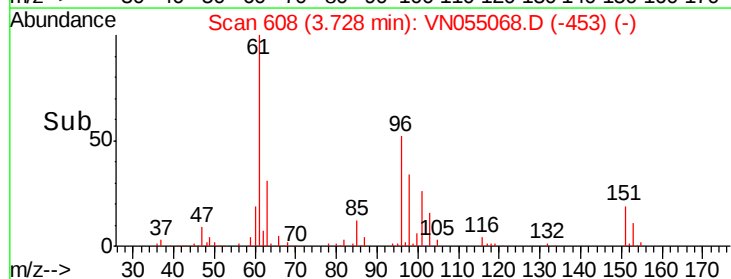
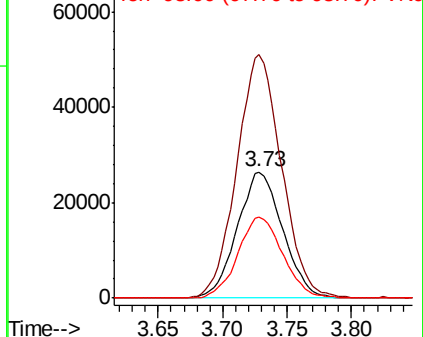
98 64.7 52.2 78.2

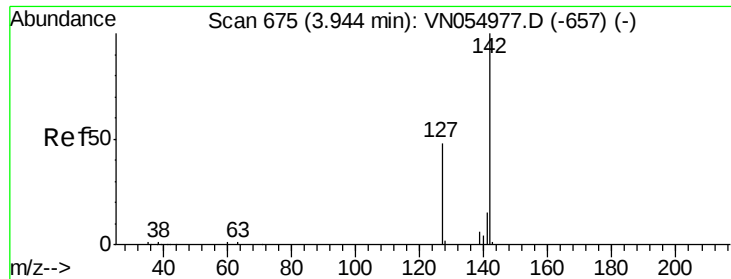


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

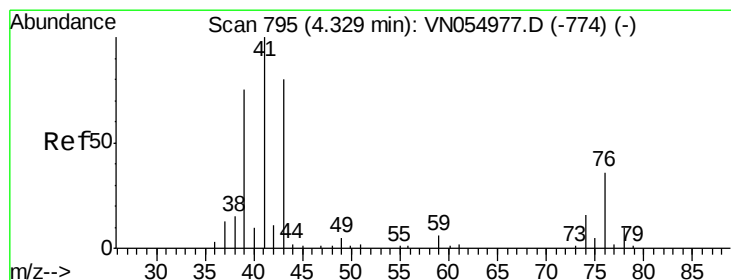
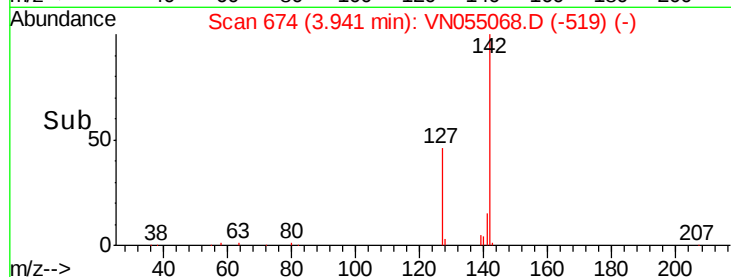
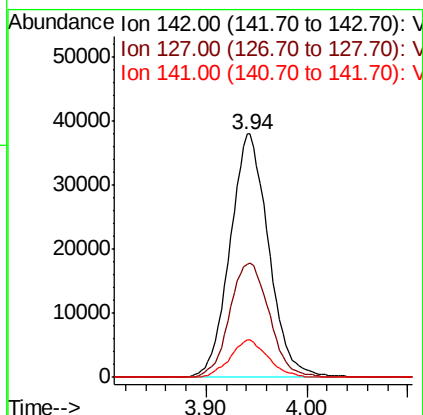
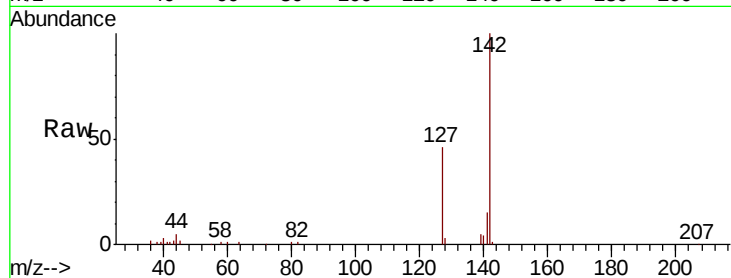




#11
Methyl Iodide
Concen: 20.315 ug/l
RT: 3.94 min Scan# 674
Delta R.T. -0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

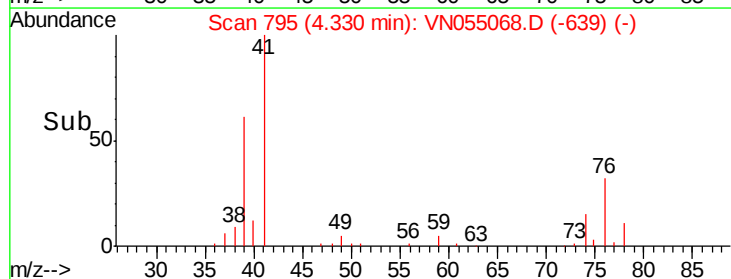
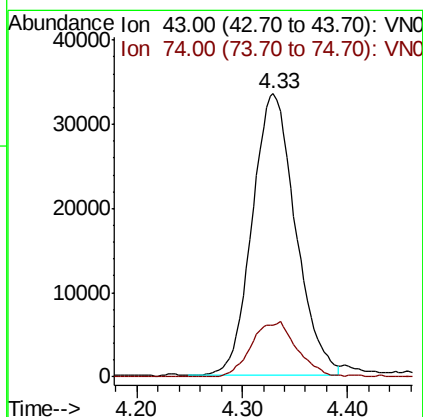
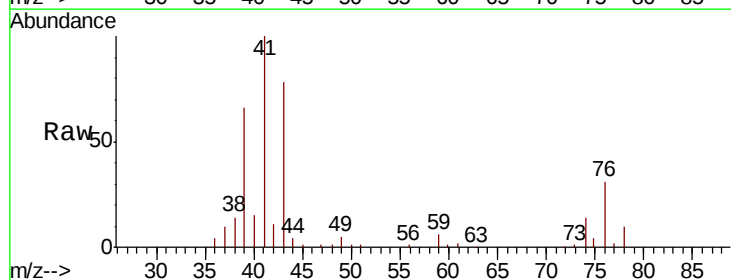
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

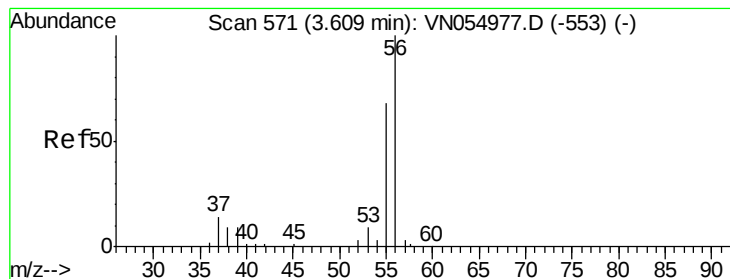
Tot Ion:142 Resp: 100575
Ion Ratio Lower Upper
142 100
127 46.5 23.8 71.5
141 15.4 7.3 22.0



#12
Methyl Acetate
Concen: 23.864 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 43 Resp: 96026
Ion Ratio Lower Upper
43 100
74 18.2 16.2 24.4





#13

Acrolein

Concen: 98.548 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

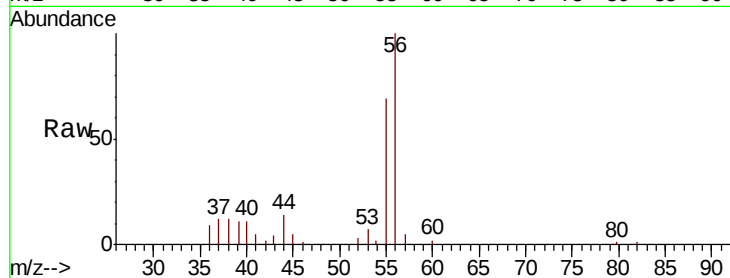
VSTDCCC020

Tot Ion: 56 Resp: 34754

Ion Ratio Lower Upper

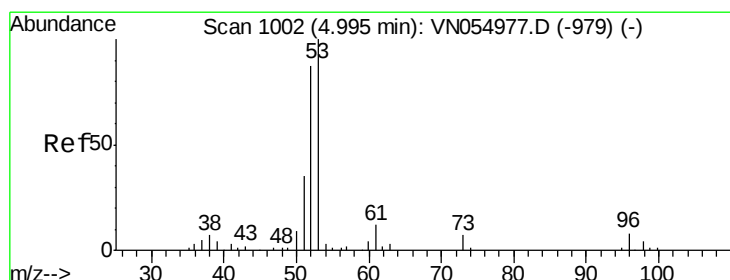
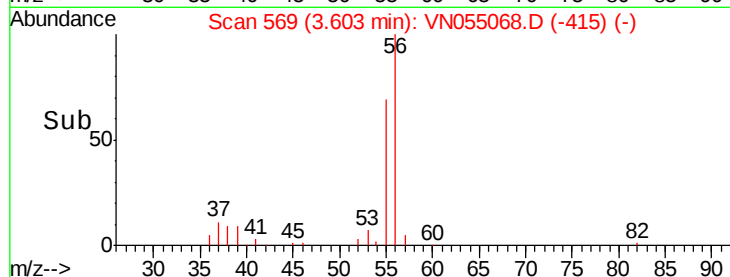
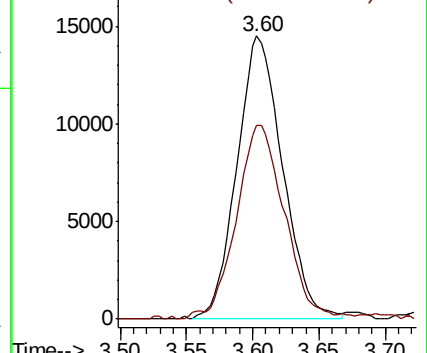
56 100

55 70.7 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 112.095 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

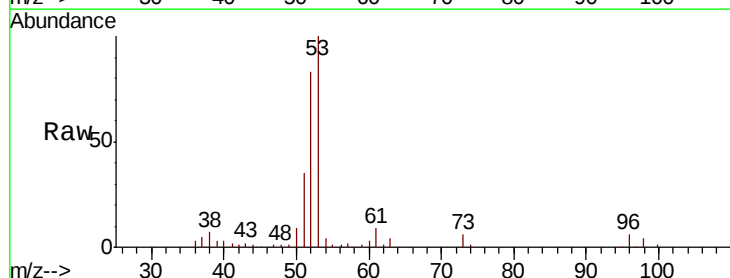
Tgt Ion: 53 Resp: 184797

Ion Ratio Lower Upper

53 100

52 81.4 42.3 126.8

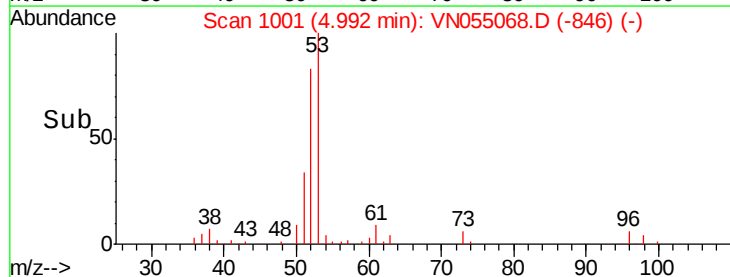
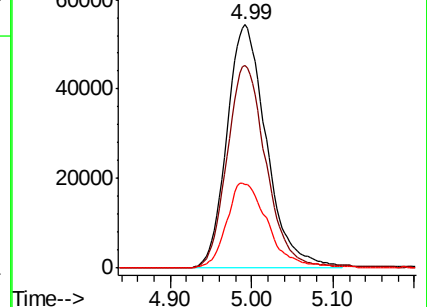
51 36.2 18.6 56.0

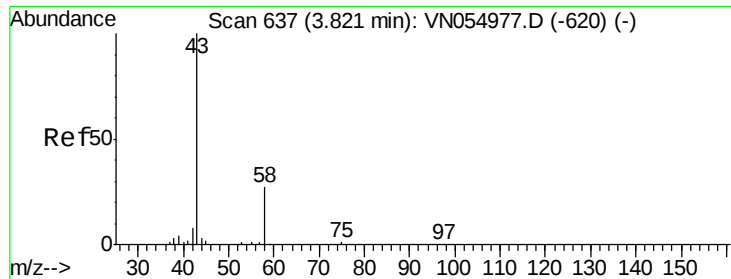


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 139.613 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

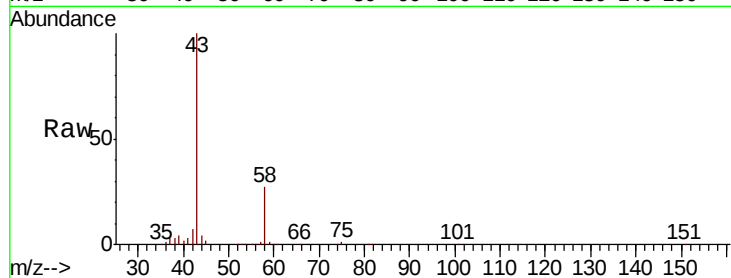
VSTDCCC020

Tot Ion: 58 Resp: 56954

Ion Ratio Lower Upper

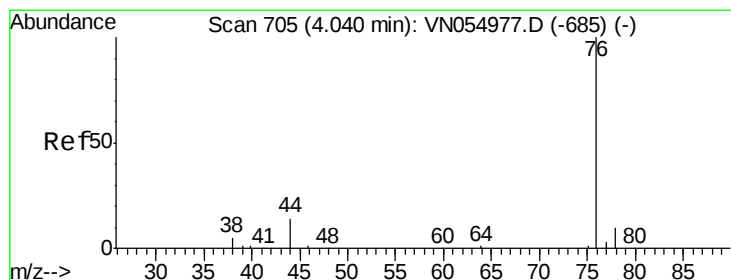
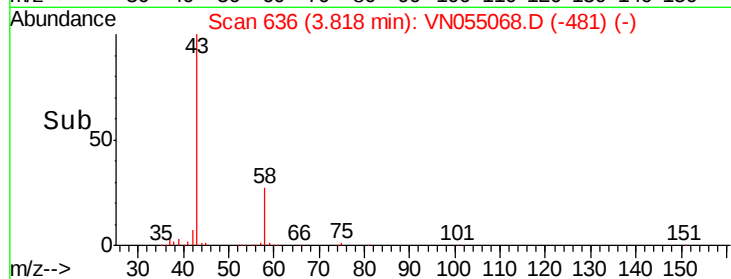
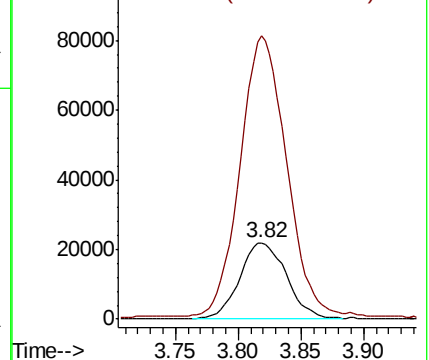
58 100

43 370.7 297.2 445.8



Abundance Ion 58.00 (57.70 to 58.70): VN055068.D (-481) (-)

Ion 43.00 (42.70 to 43.70): VN055068.D (-481) (-)



#16

Carbon Disulfide

Concen: 19.792 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN055068.D

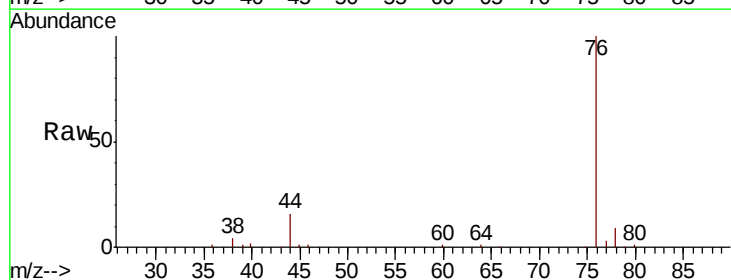
Acq: 16 Apr 2019 10:08

Tgt Ion: 76 Resp: 217187

Ion Ratio Lower Upper

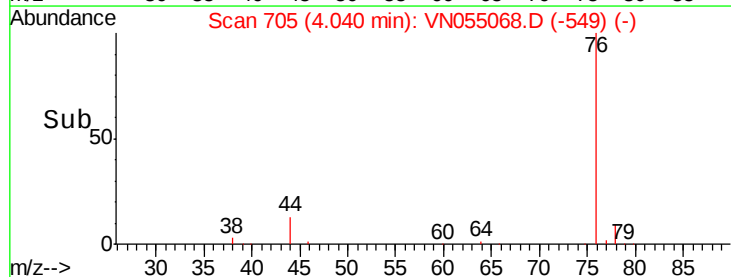
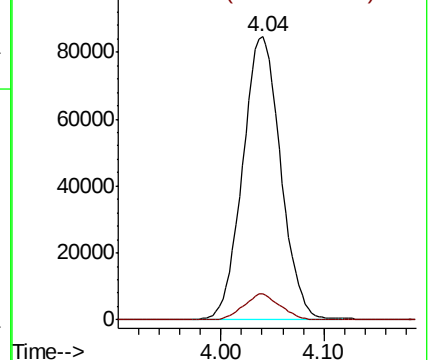
76 100

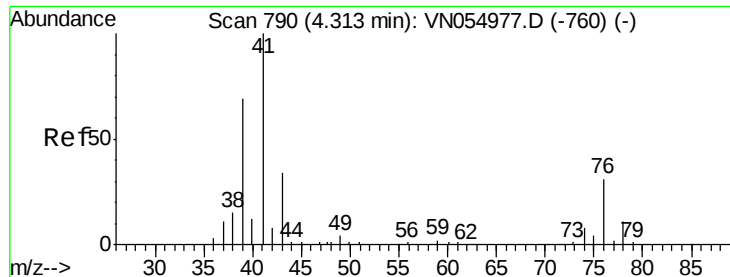
78 9.3 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VN055068.D (-549) (-)

Ion 78.00 (77.70 to 78.70): VN055068.D (-549) (-)

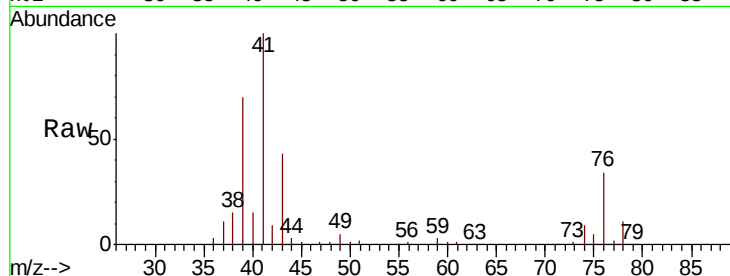




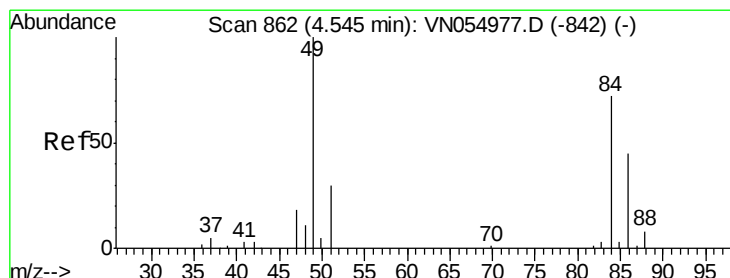
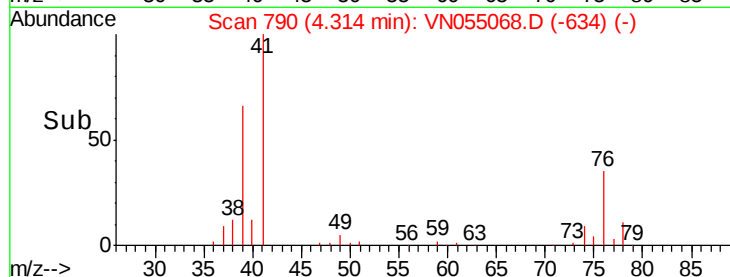
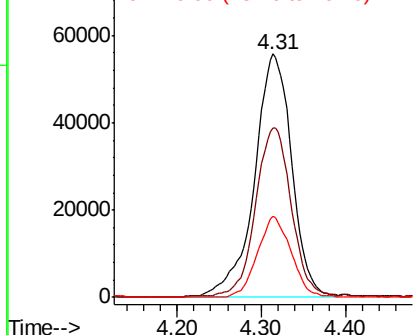
#17
Allvl chloride
Concen: 21.135 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 41 Resp: 170274
Ion Ratio Lower Upper
41 100
39 69.5 34.3 102.9
76 33.4 15.8 47.3

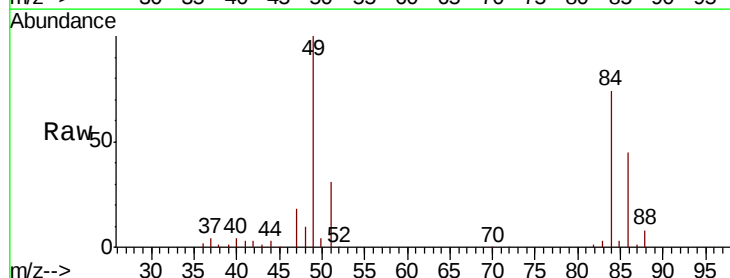


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 76.00 (75.70 to 76.70): VN0

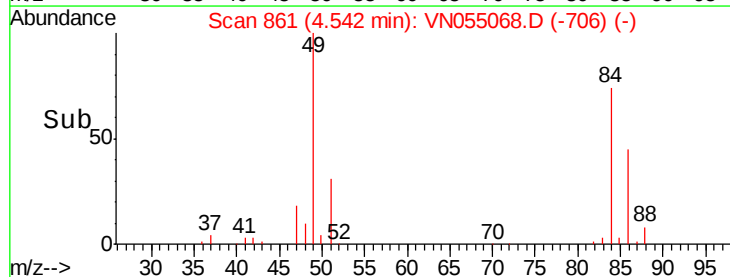
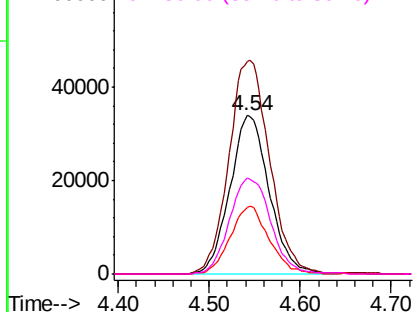


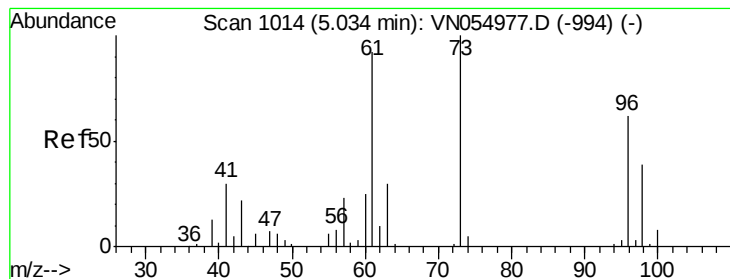
#18
Methylene Chloride
Concen: 21.082 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 84 Resp: 101946
Ion Ratio Lower Upper
84 100
49 134.6 111.0 166.4
51 41.9 33.4 50.2
86 60.7 49.5 74.3



Abundance Ion 84.00 (83.70 to 84.70): VN0
Ion 49.00 (48.70 to 49.70): VN0
Ion 51.00 (50.70 to 51.70): VN0
Ion 86.00 (85.70 to 86.70): VN0





#19

trans-1,2-Dichloroethene

Concen: 20.753 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

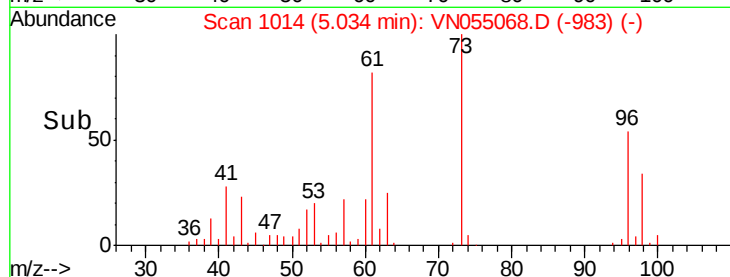
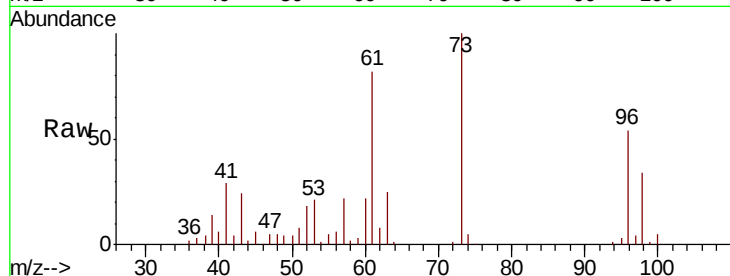
Tot Ion: 96 Resp: 88381

Ion Ratio Lower Upper

96 100

61 151.0 117.2 175.8

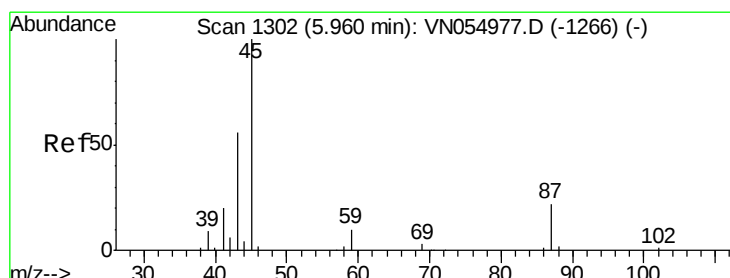
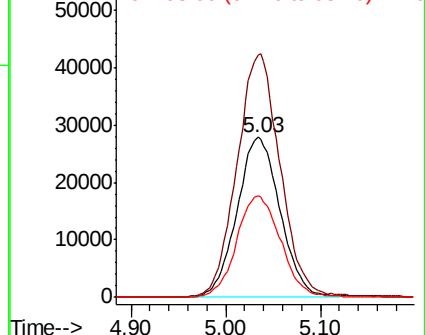
98 63.5 49.4 74.2



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: 20.989 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Tgt Ion: 45 Resp: 342552

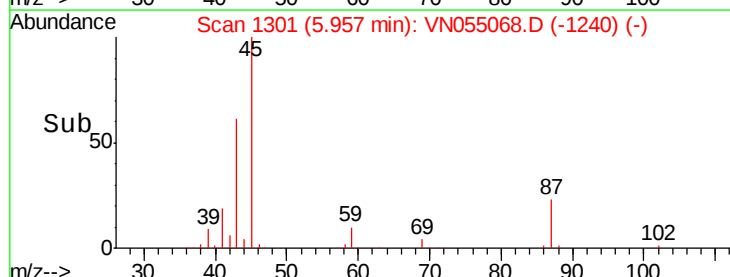
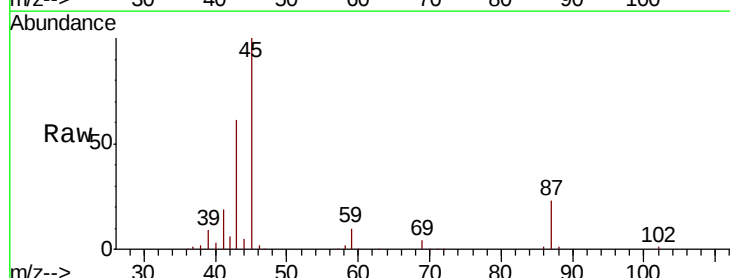
Ion Ratio Lower Upper

45 100

43 58.9 45.8 68.8

87 23.2 18.2 27.4

59 10.1 8.2 12.2

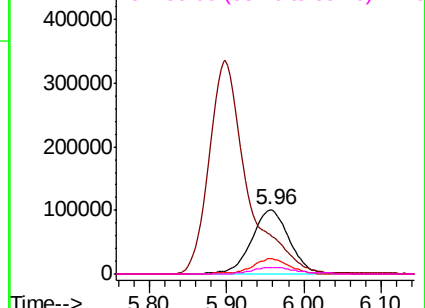


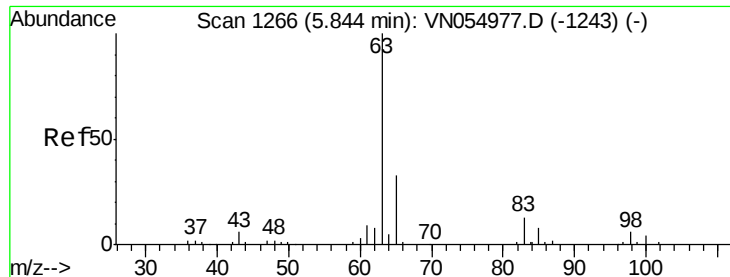
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0

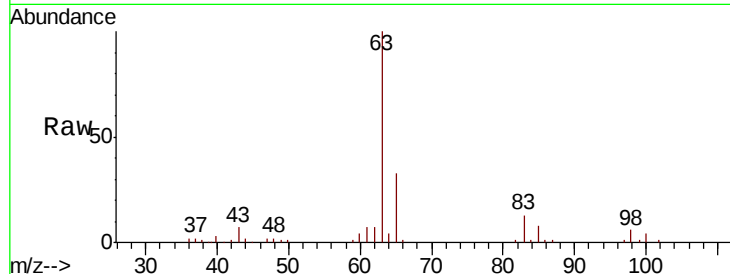




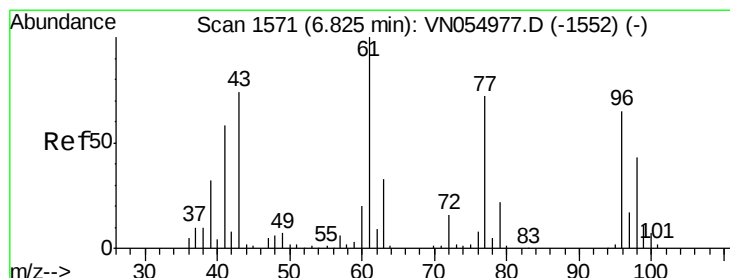
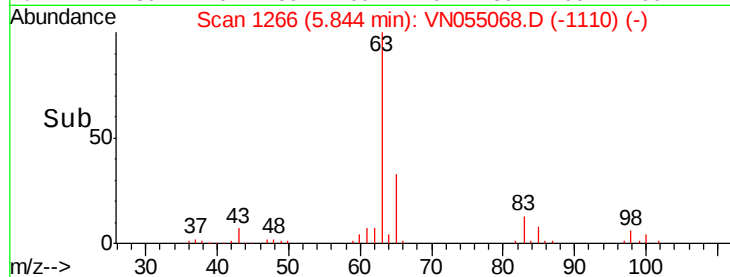
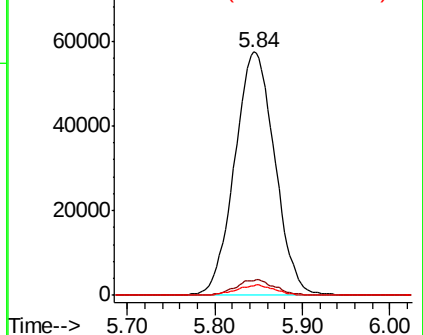
#21
 1,1-Dichloroethane
 Concen: 20.943 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.2	2.9	8.7
100	3.9	2.0	5.8

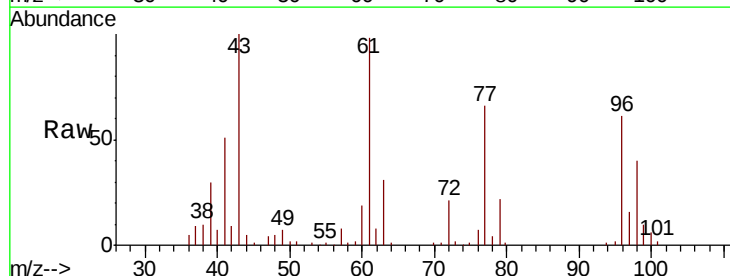


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

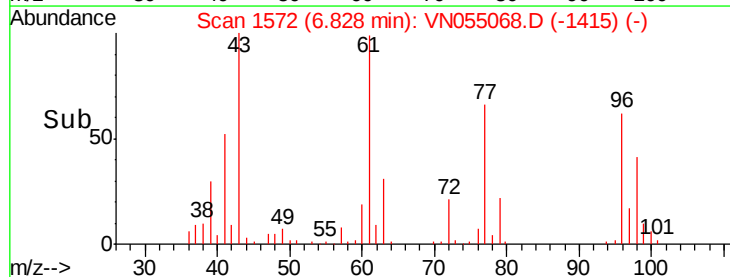
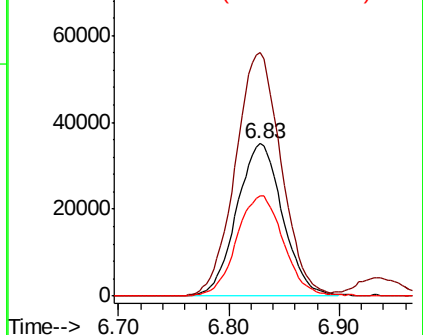


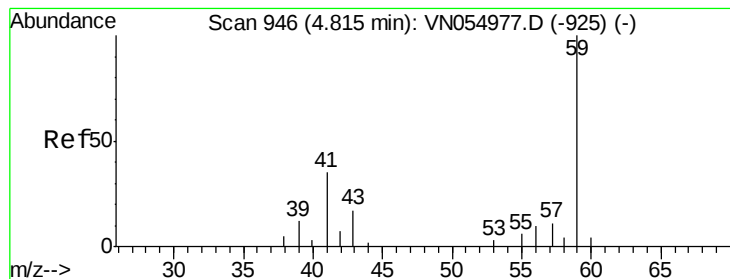
#22
 cis-1,2-Dichloroethene
 Concen: 20.407 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.8	125.0	187.6
98	66.8	52.2	78.2



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



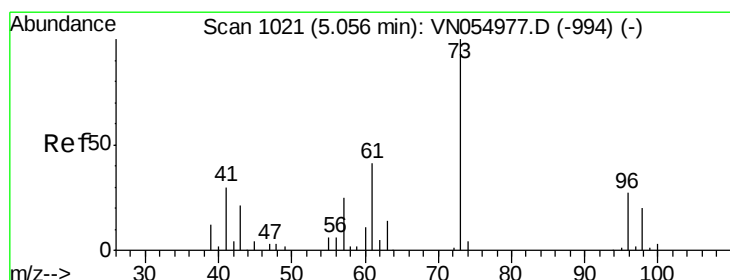
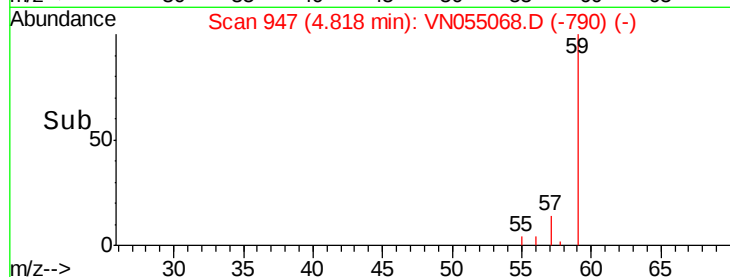
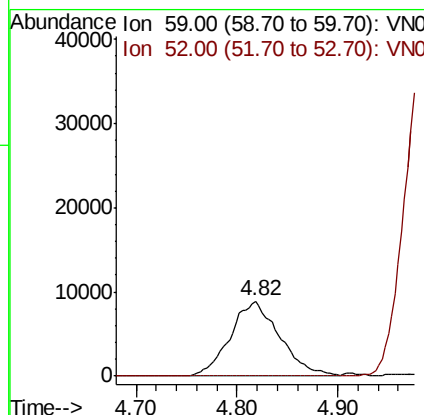
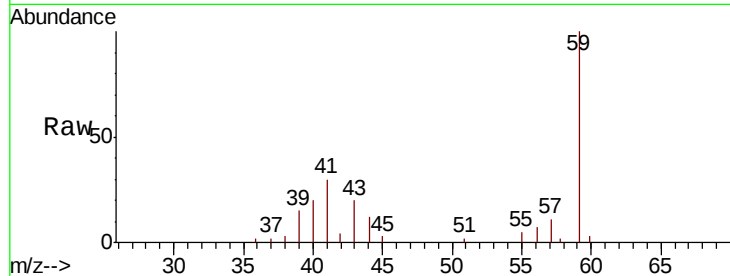


#23

tert-Butyl Alcohol
 Concen: 114.967 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

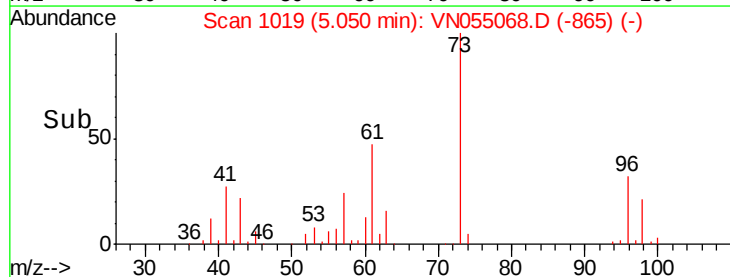
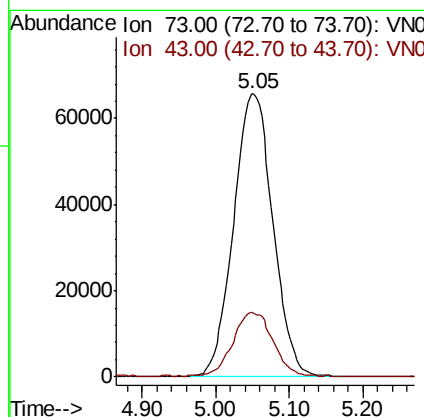
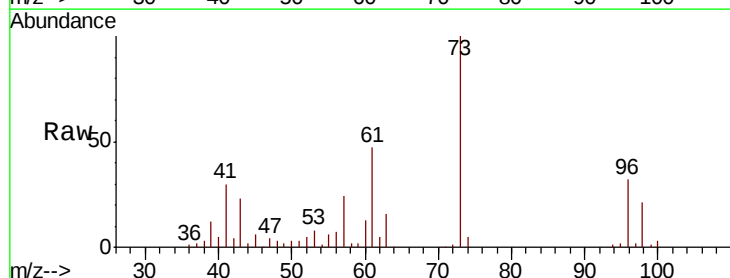
Tot Ion: 59 Resp: 30221
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

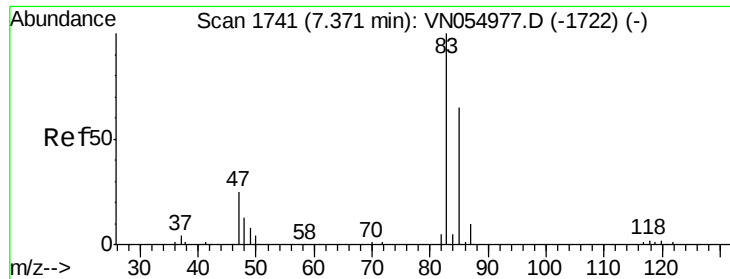


#24

Methyl tert-Butyl Ether
 Concen: 22.229 ug/l
 RT: 5.05 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 73 Resp: 244178
 Ion Ratio Lower Upper
 73 100
 43 22.8 8.0 12.0#

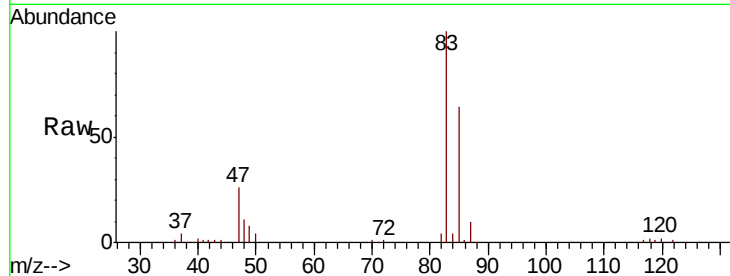




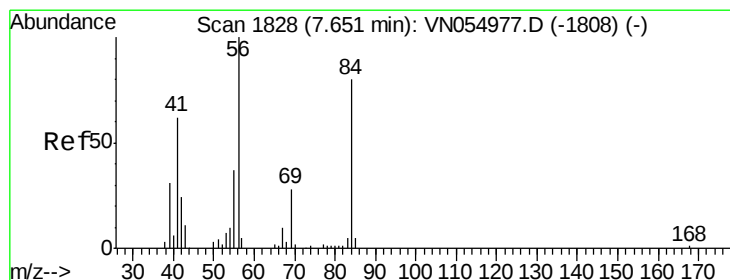
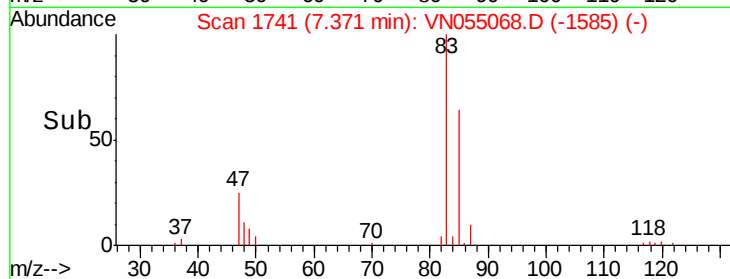
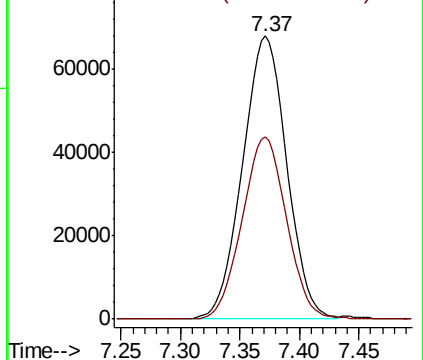
#25
Chloroform
Concen: 20.944 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 83 Resp: 174886
Ion Ratio Lower Upper
83 100
85 64.4 51.8 77.8

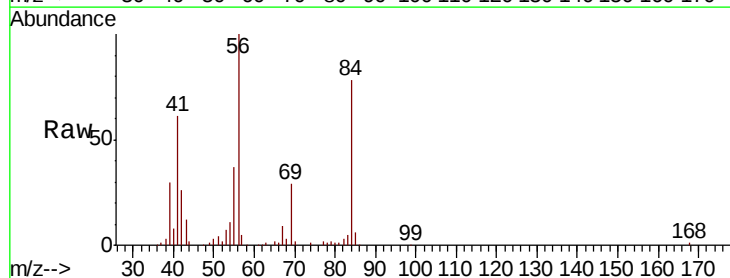


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0

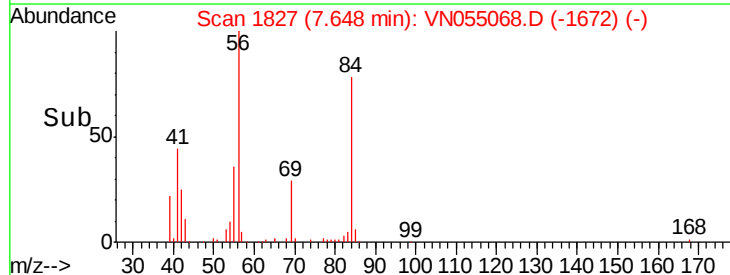
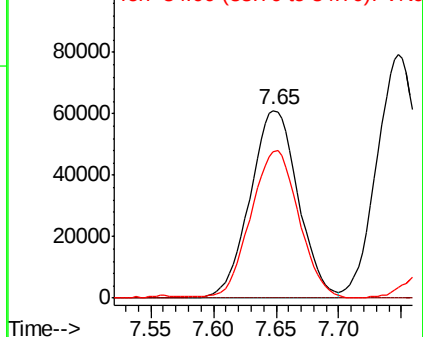


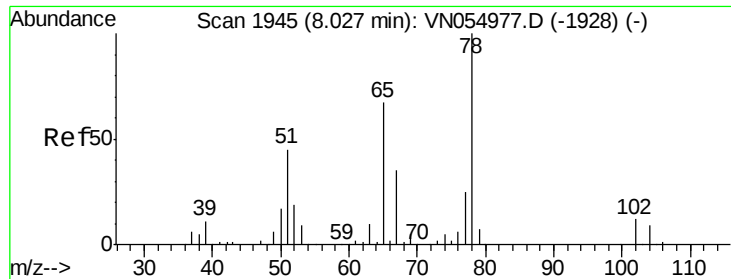
#26
Cyclohexane
Concen: 20.130 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 56 Resp: 162814
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 78.9 63.5 95.3



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 89.00 (88.70 to 89.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 20.130 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

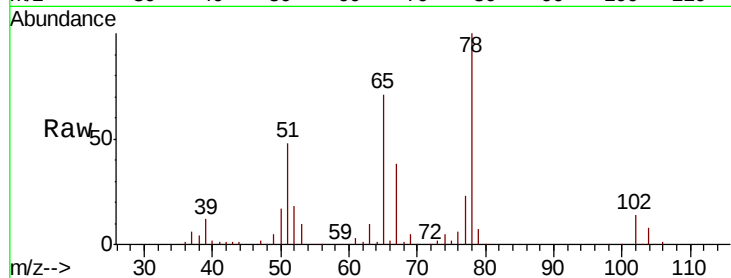
VSTDCCC020

Tot Ion: 65 Resp: 170029

Ion Ratio Lower Upper

65 100

67 53.0 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN054977.D (-1928) (-)

Ion 67.00 (66.70 to 67.70): VN054977.D (-1928) (-)

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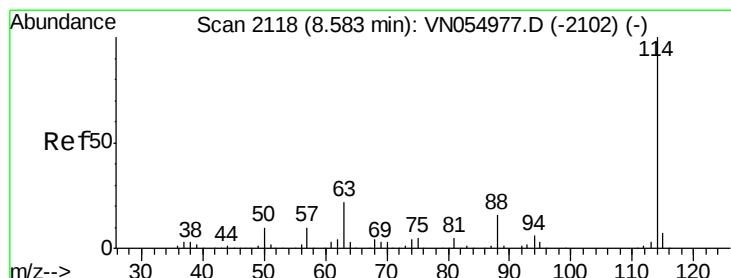
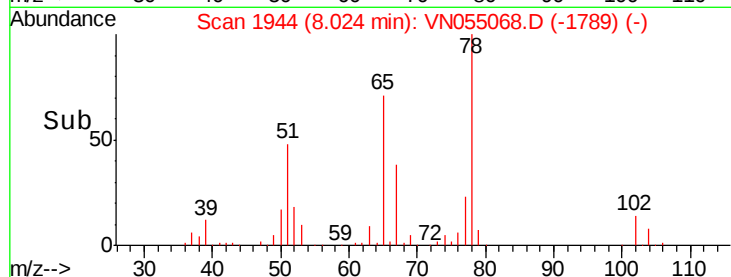
8.02

8.02

8.02

8.02

8.02



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

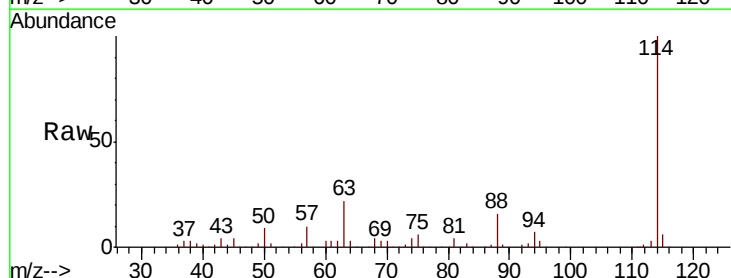
Tgt Ion: 114 Resp: 396290

Ion Ratio Lower Upper

114 100

63 22.1 17.0 25.4

88 16.2 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN054977.D (-2102) (-)

Ion 63.00 (62.70 to 63.70): VN054977.D (-2102) (-)

Ion 88.00 (87.70 to 88.70): VN054977.D (-2102) (-)

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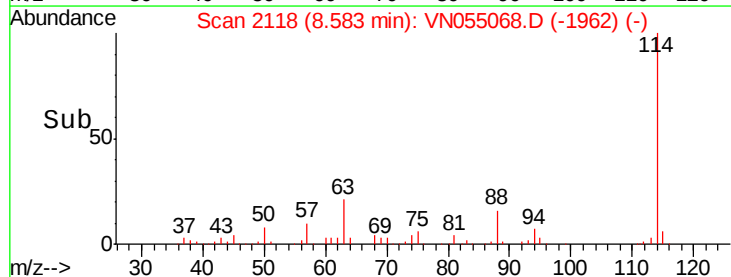
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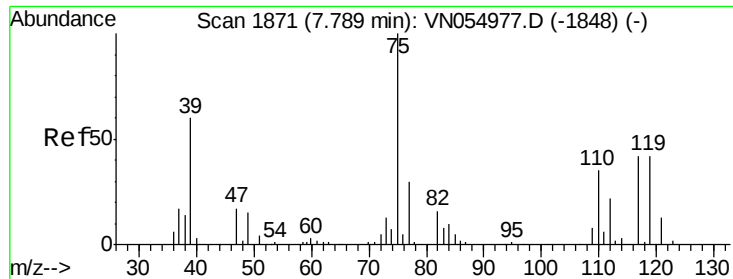
8.58

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8.58

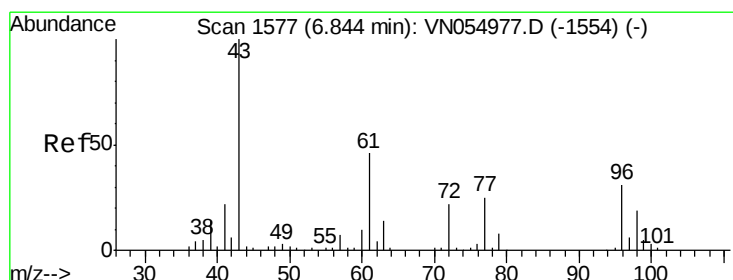
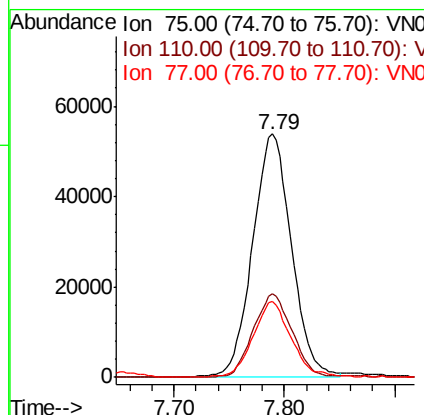
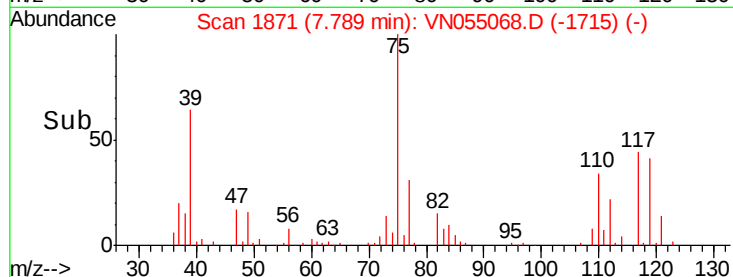
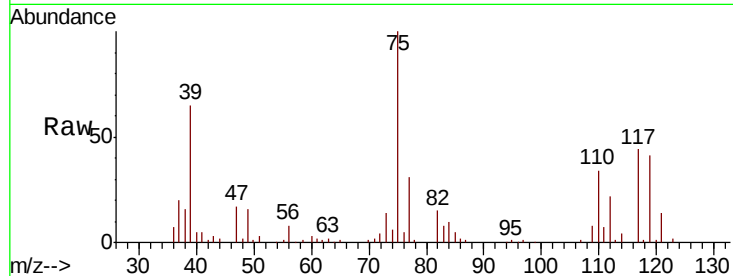
8.58



#29
 1,1-Dichloropropene
 Concen: 21.322 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

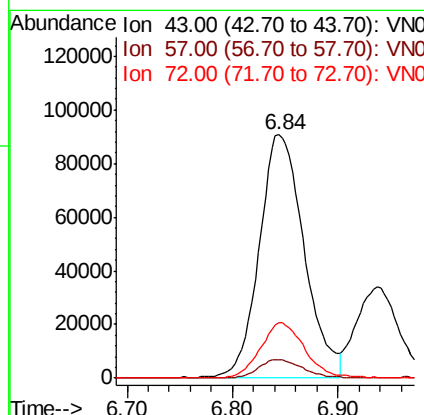
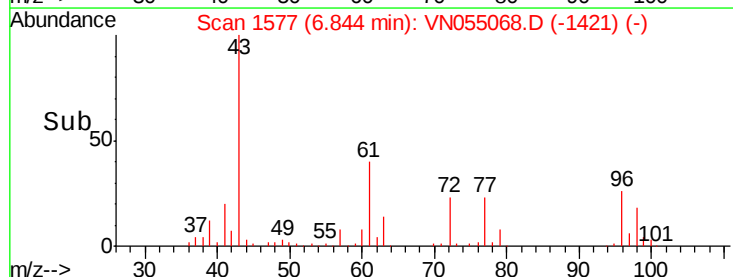
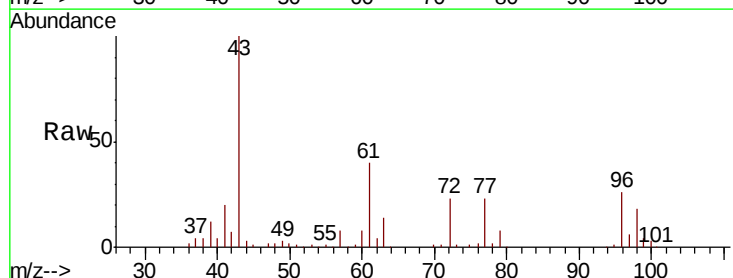
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

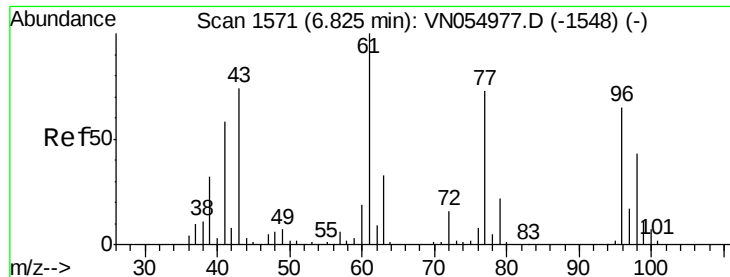
Tot Ion	Ratio	Lower	Upper
75	100		
110	34.1	0.0	68.4
77	28.6	0.0	58.6



#30
 2-Butanone
 Concen: 130.097 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.6	6.0	9.0
72	22.5	18.6	27.8

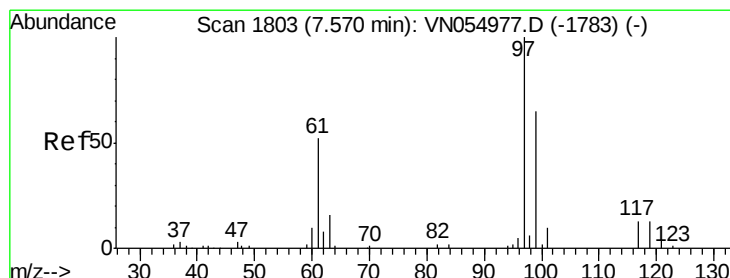
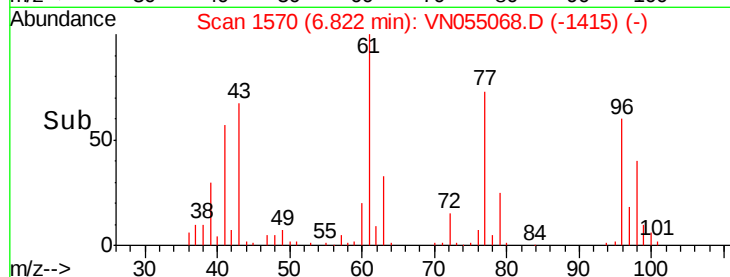
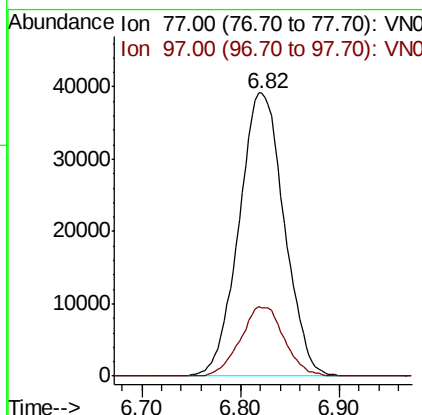
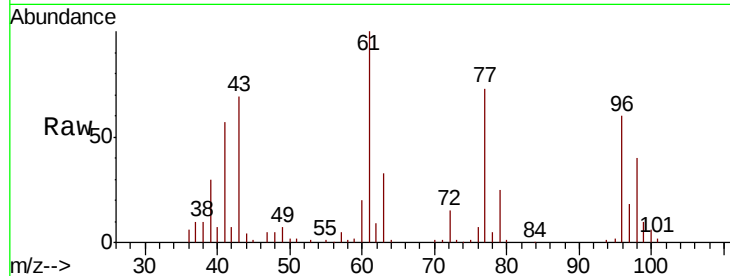




#31
 2,2-Dichloropropane
 Concen: 21.868 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

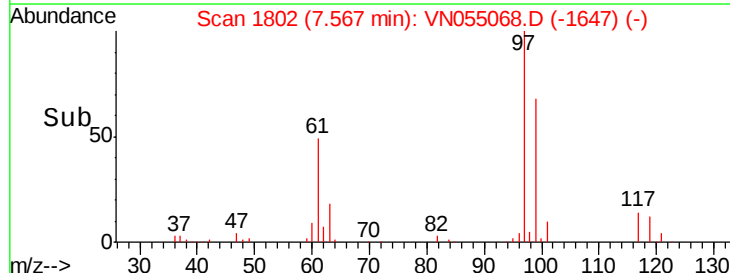
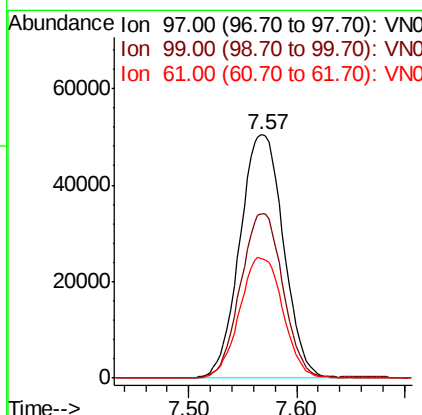
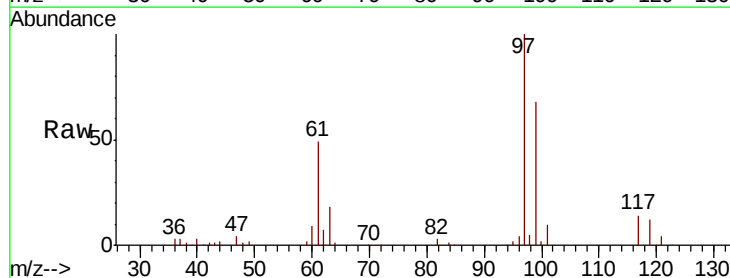
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

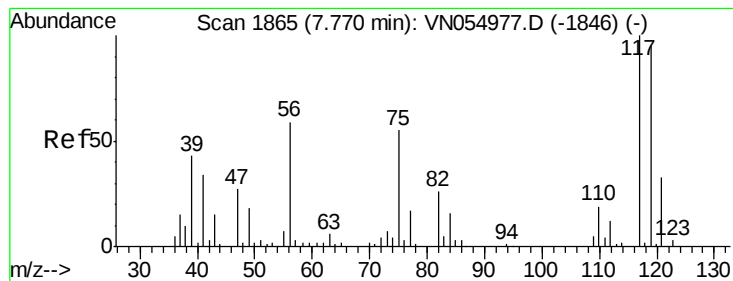
Tot Ion: 77 Resp: 124218
 Ion Ratio Lower Upper
 77 100
 97 13.8 0.0 0.0#



#32
 1,1,1-Trichloroethane
 Concen: 21.778 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 97 Resp: 142069
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.2 76.8
 61 49.1 40.6 60.8





#33

Carbon Tetrachloride

Concen: 21.201 ug/l

RT: 7.77 min Scan# 1865

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

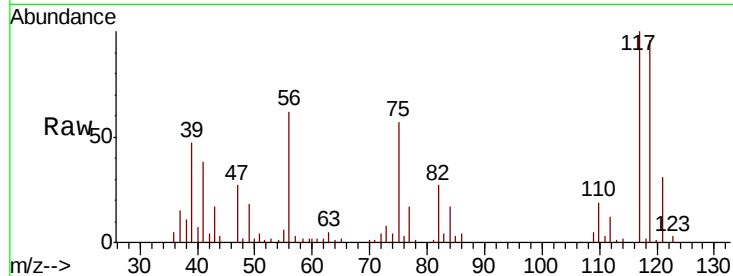
Tot Ion:117 Resp: 119741

Ion Ratio Lower Upper

117 100

119 95.5 76.1 114.1

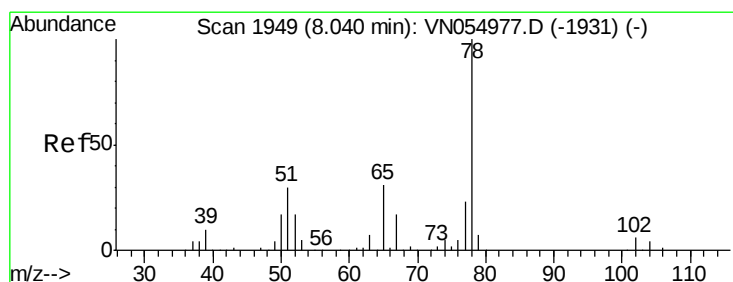
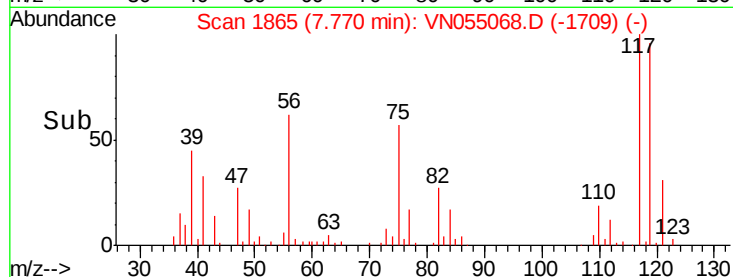
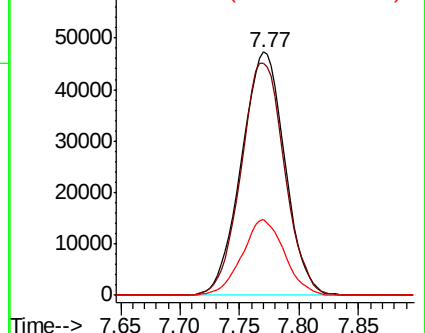
121 30.9 26.2 39.4



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: 21.342 ug/l

RT: 8.04 min Scan# 1949

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

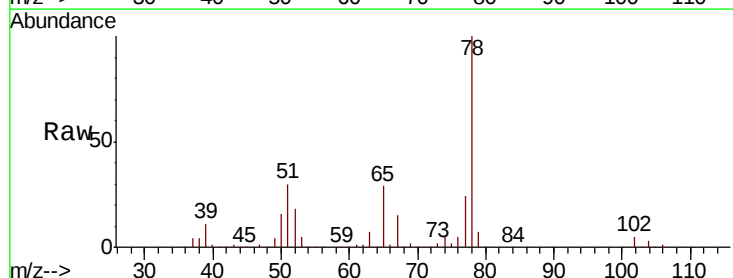
Tgt Ion: 78 Resp: 390339

Ion Ratio Lower Upper

78 100

77 24.2 18.2 27.4

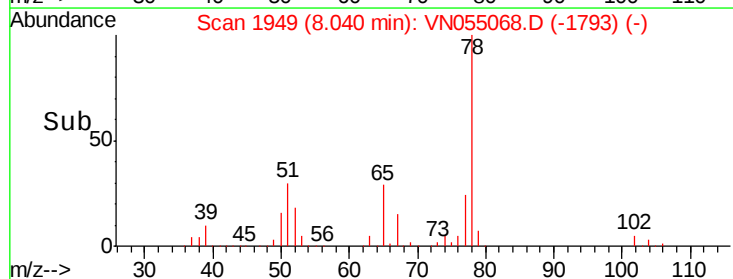
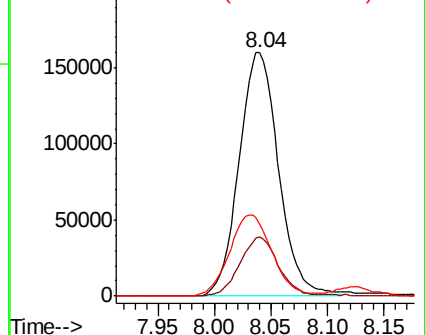
51 29.3 23.7 35.5

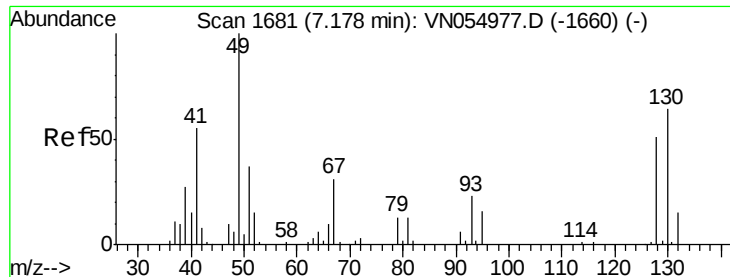


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

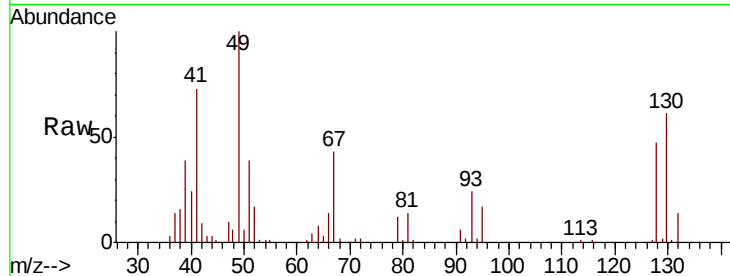




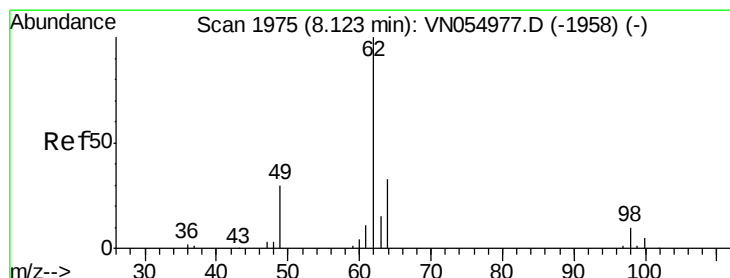
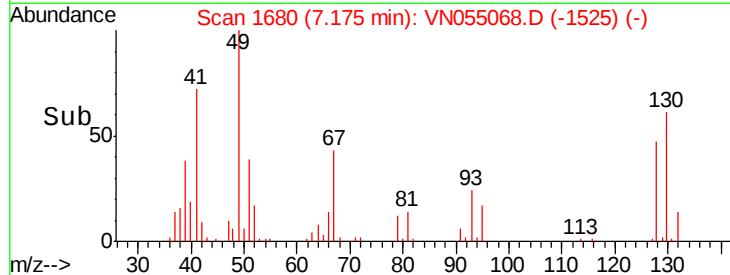
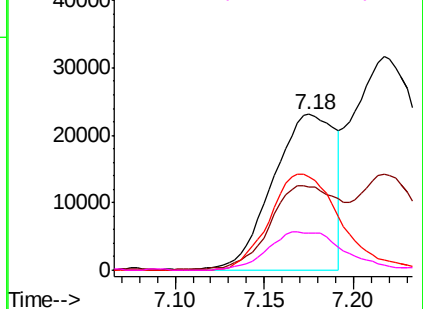
#35
Methacrylonitrile
Concen: 23.250 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 41 Resp: 56141
Ion Ratio Lower Upper
41 100
39 53.0 24.2 72.6
67 60.2 28.1 84.2
52 24.2 13.3 39.8

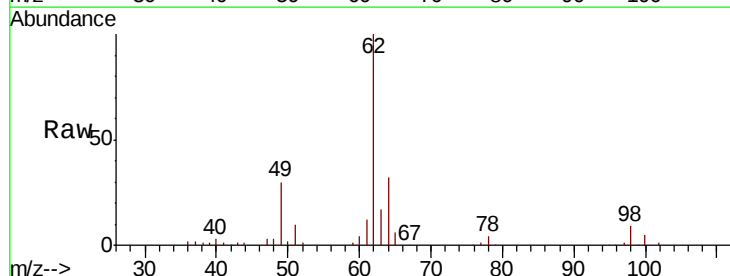


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

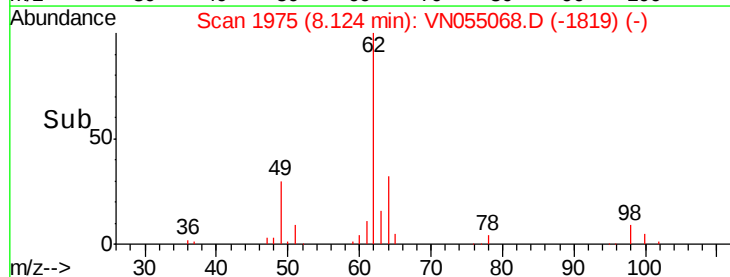
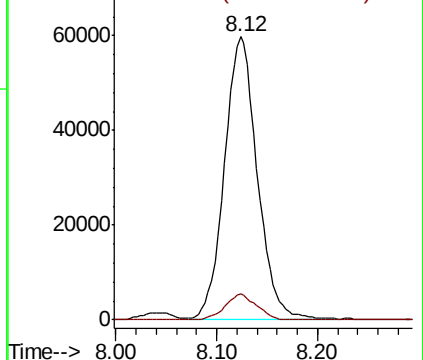


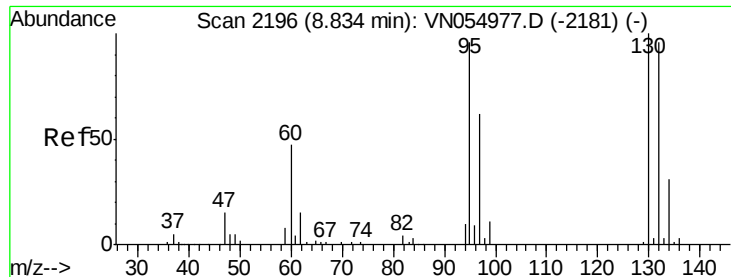
#36
1,2-Dichloroethane
Concen: 21.440 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 62 Resp: 134017
Ion Ratio Lower Upper
62 100
98 8.8 6.9 10.3



Abundance Ion 62.00 (61.70 to 62.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

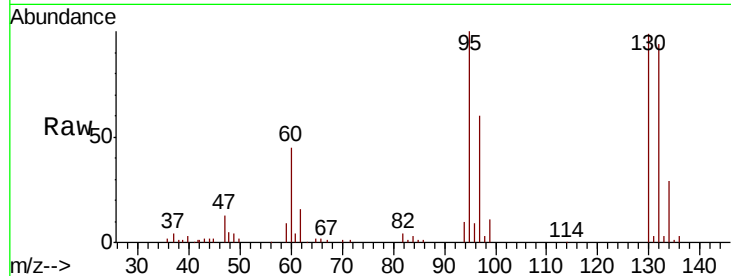




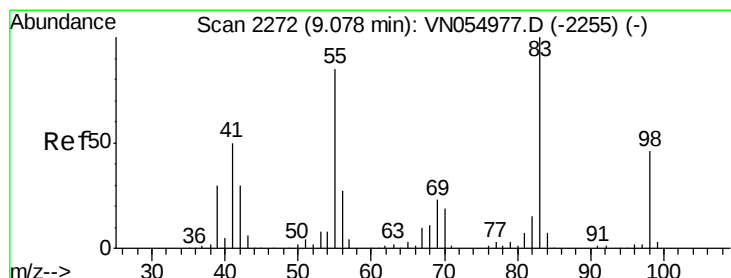
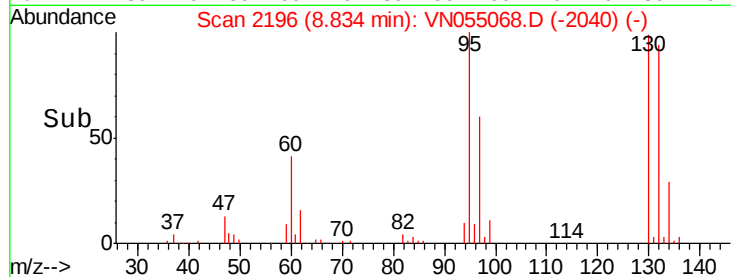
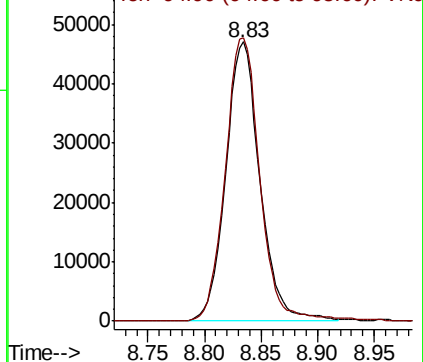
#37
 Trichloroethene
 Concen: 21.304 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion:130 Resp: 99329
 Ion Ratio Lower Upper
 130 100
 95 101.4 76.6 115.0

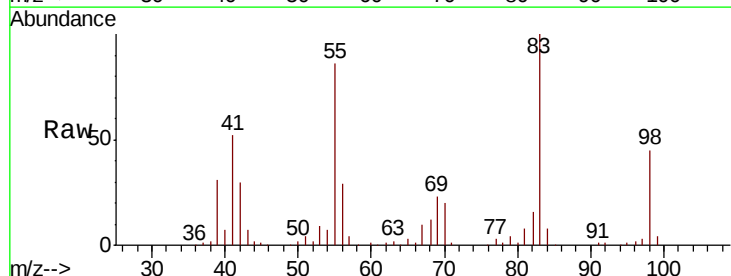


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

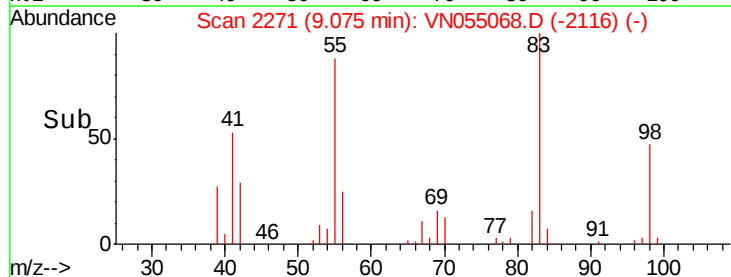
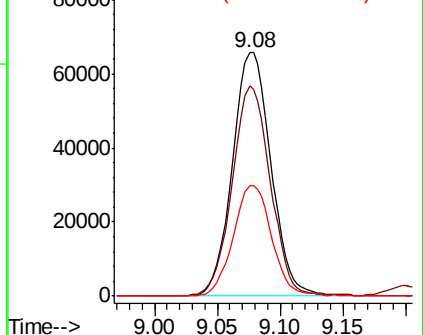


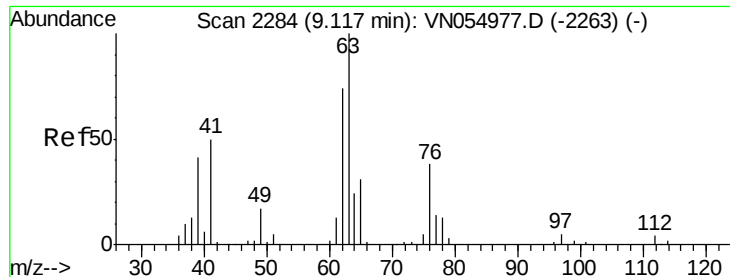
#38
 Methylcyclohexane
 Concen: 19.682 ug/l
 RT: 9.08 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 83 Resp: 140870
 Ion Ratio Lower Upper
 83 100
 55 85.2 41.9 125.6
 98 45.2 22.4 67.0



Abundance Ion 83.00 (82.70 to 83.70): VNO
 Ion 55.00 (54.70 to 55.70): VNO
 Ion 98.00 (97.70 to 98.70): VNO

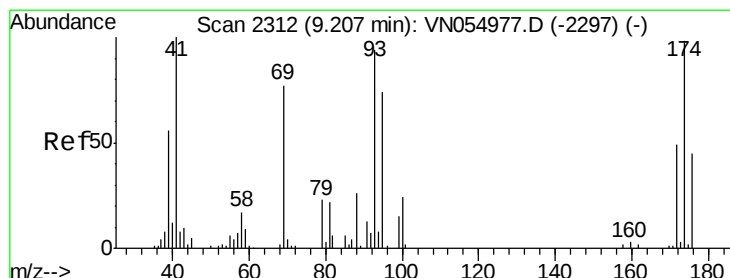
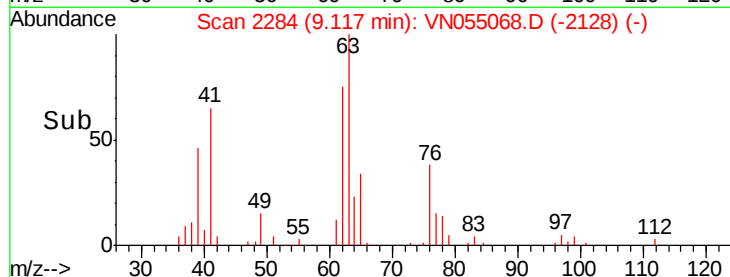
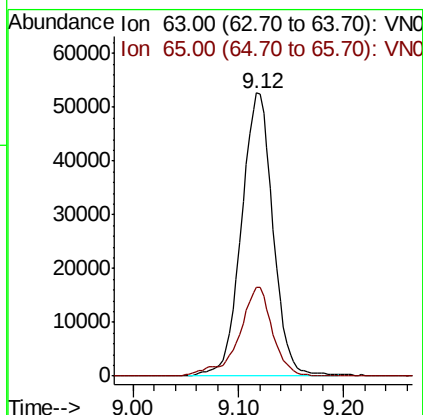
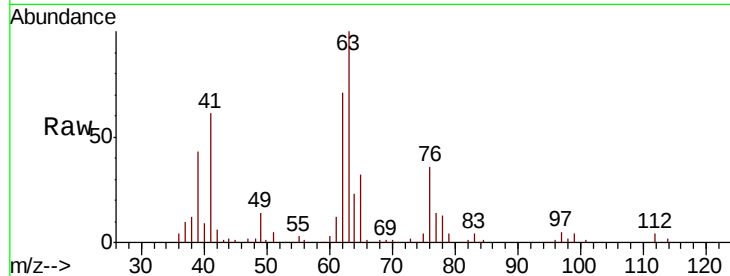




#39
 1,2-Dichloropropane
 Concen: 21.730 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

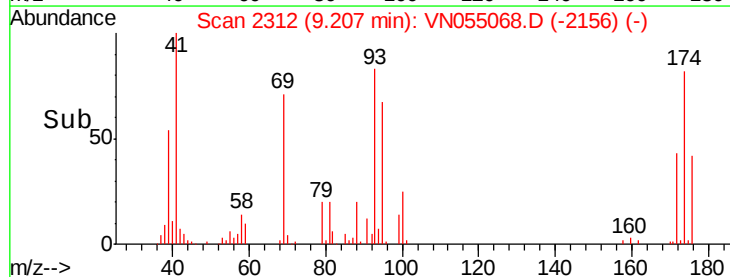
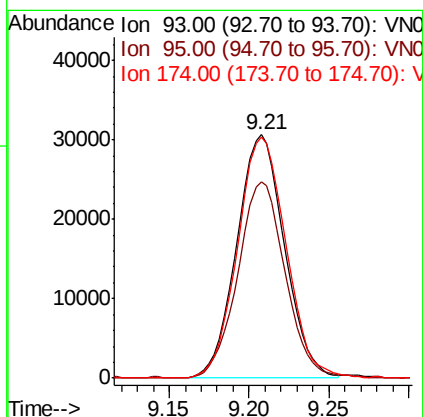
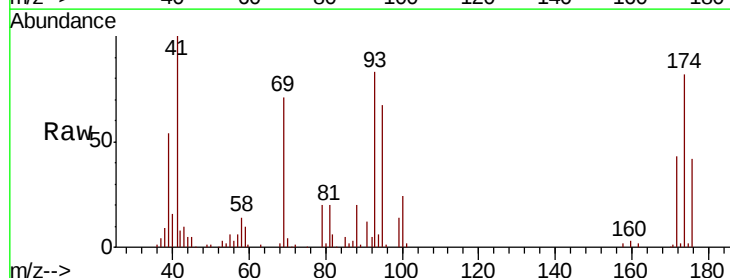
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

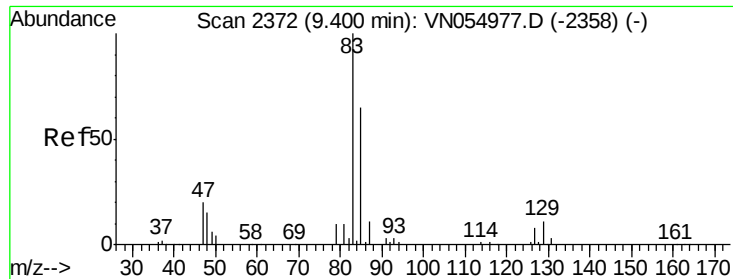
Tot Ion: 63 Resp: 109738
 Ion Ratio Lower Upper
 63 100
 65 31.5 24.8 37.2



#40
 Dibromomethane
 Concen: 21.873 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 93 Resp: 62436
 Ion Ratio Lower Upper
 93 100
 95 80.4 0.0 160.8
 174 100.8 0.0 206.4





#41

Bromodichloromethane

Concen: 21.168 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

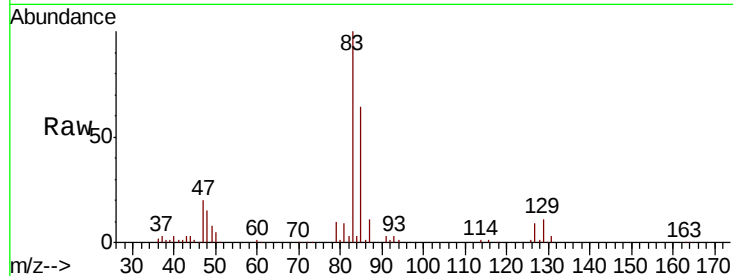
Tot Ion: 83 Resp: 124708

Ion Ratio Lower Upper

83 100

85 63.9 52.0 78.0

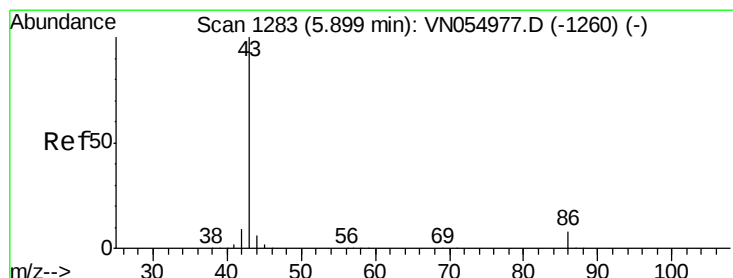
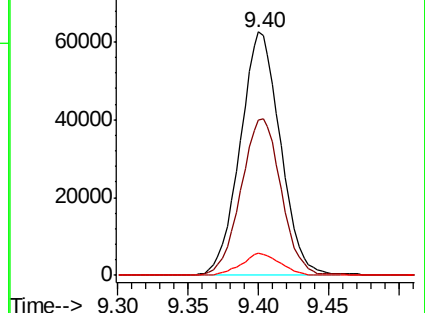
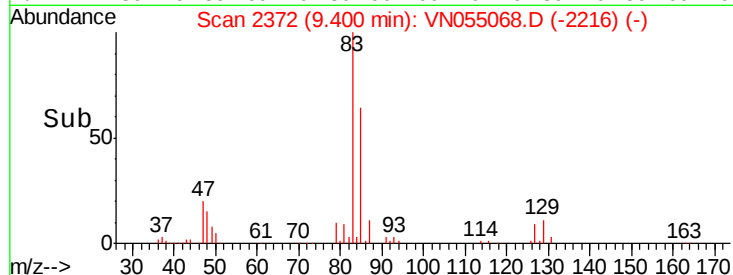
127 9.0 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VN054977.D (-2358) (-)

Ion 85.00 (84.70 to 85.70): VN054977.D (-2358) (-)

Ion 127.00 (126.70 to 127.70): VN054977.D (-2358) (-)



#42

Vinyl Acetate

Concen: 111.324 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VN055068.D

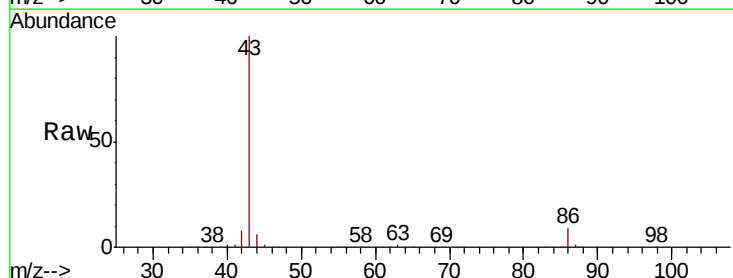
Acq: 16 Apr 2019 10:08

Tgt Ion: 43 Resp: 1152987

Ion Ratio Lower Upper

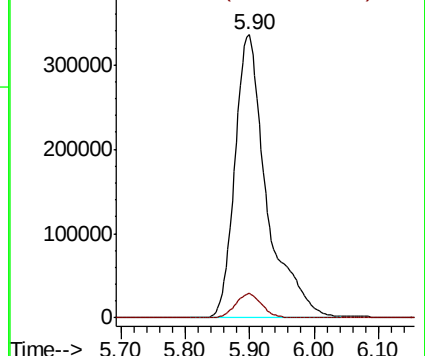
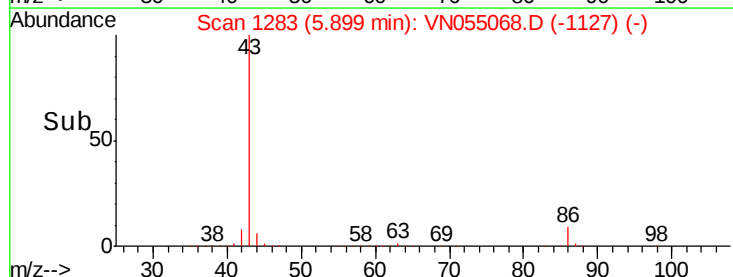
43 100

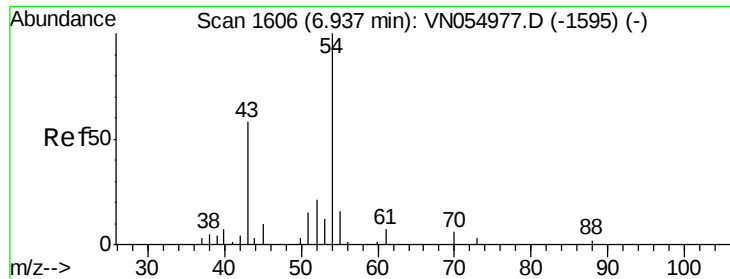
86 7.2 5.7 8.5



Abundance Ion 43.00 (42.70 to 43.70): VN054977.D (-1260) (-)

Ion 86.00 (85.70 to 86.70): VN054977.D (-1260) (-)

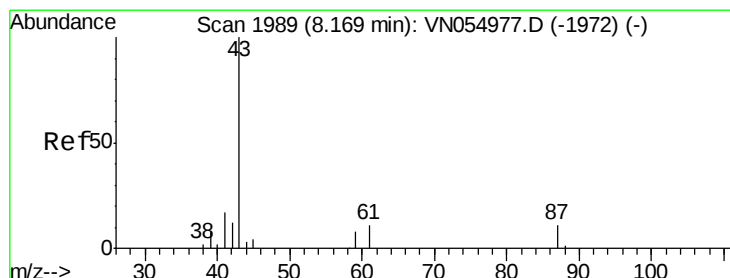
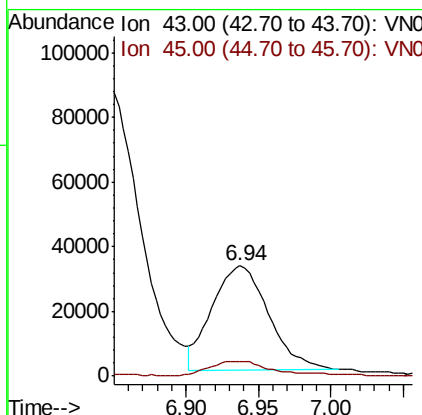
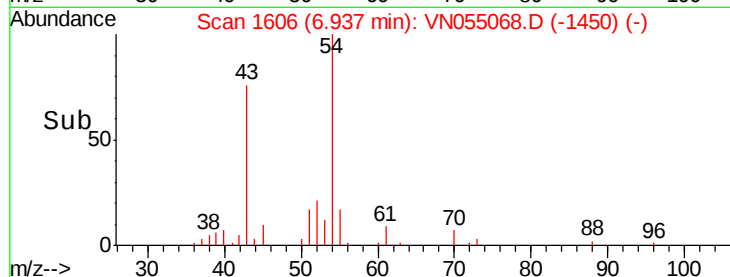
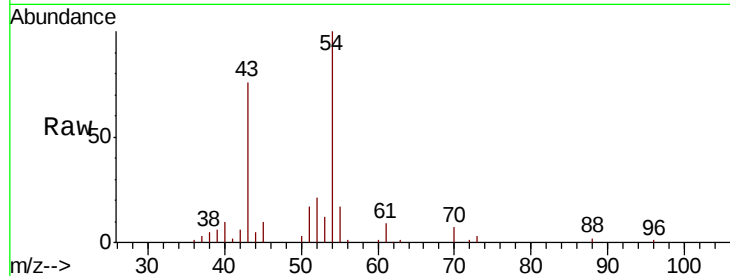




#43
Ethyl Acetate
Concen: 20.820 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

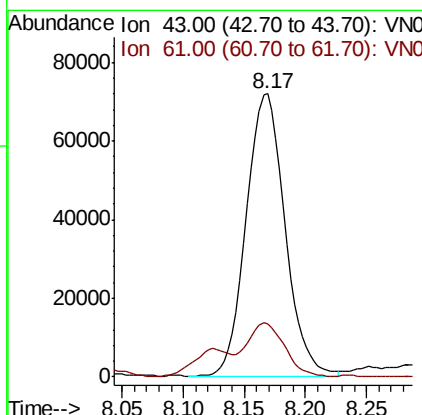
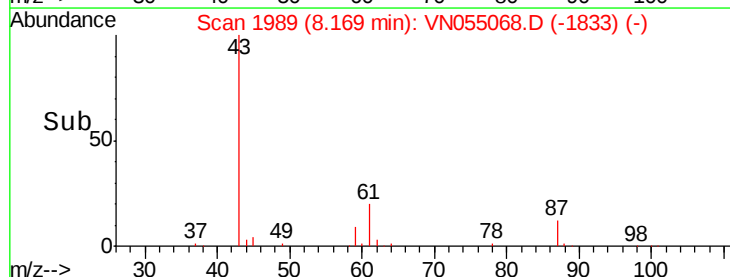
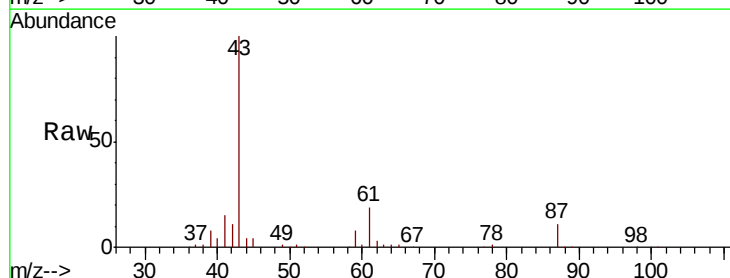
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

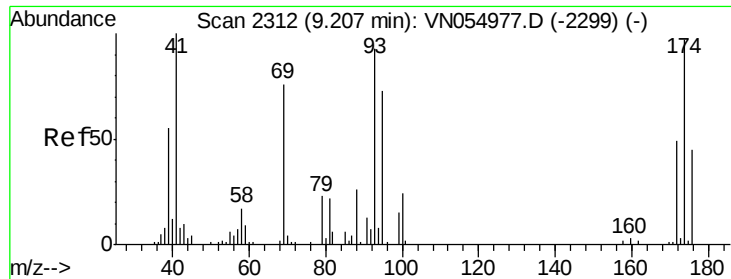
Tot Ion: 43 Resp: 86893
Ion Ratio Lower Upper
43 100
45 0.1 10.6 15.8#



#44
Isopropyl Acetate
Concen: 22.564 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 43 Resp: 159594
Ion Ratio Lower Upper
43 100
61 18.3 14.8 22.2





#45

1,4-Dioxane

Concen: 452.370 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.01 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

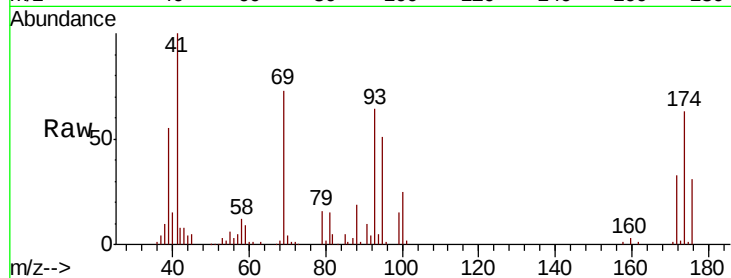
Tot Ion: 88 Resp: 17726

Ion Ratio Lower Upper

88 100

43 15.8 34.5 51.7#

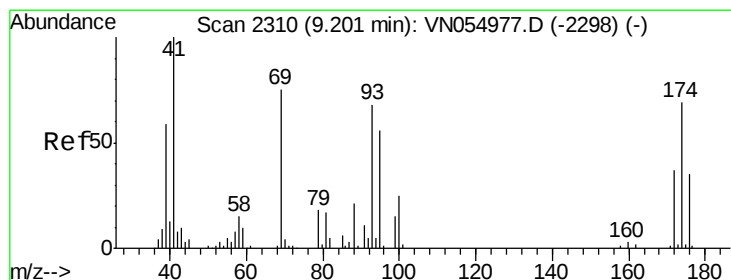
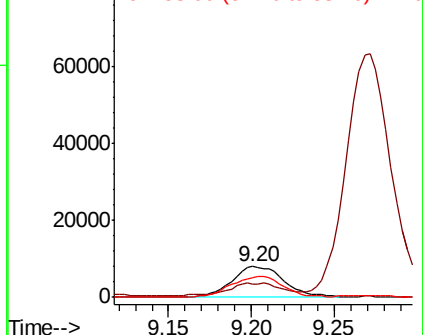
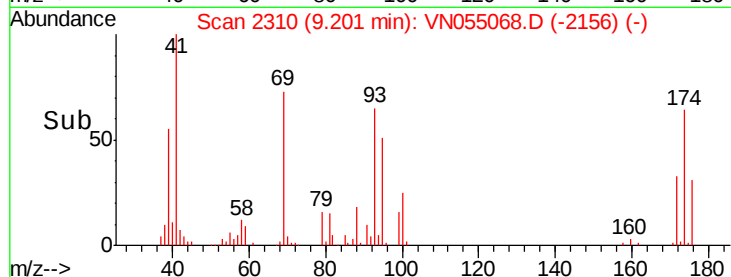
58 67.4 60.3 90.5



Abundance Ion 88.00 (87.70 to 88.70): VN055068.D (-2156) (-)

Ion 43.00 (42.70 to 43.70): VN055068.D (-2156) (-)

Ion 58.00 (57.70 to 58.70): VN055068.D (-2156) (-)



#46

Methyl methacrylate

Concen: 21.749 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

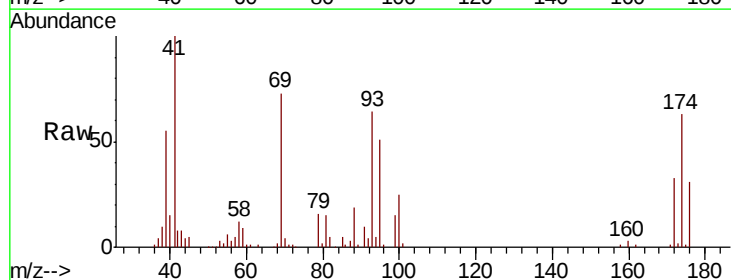
Tgt Ion: 41 Resp: 79576

Ion Ratio Lower Upper

41 100

69 73.9 37.3 111.9

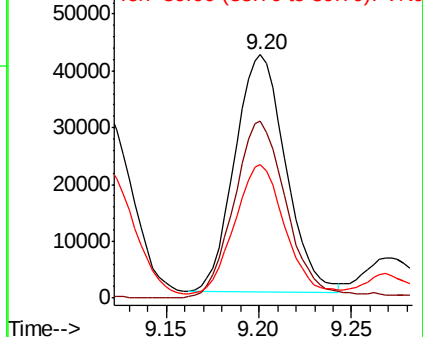
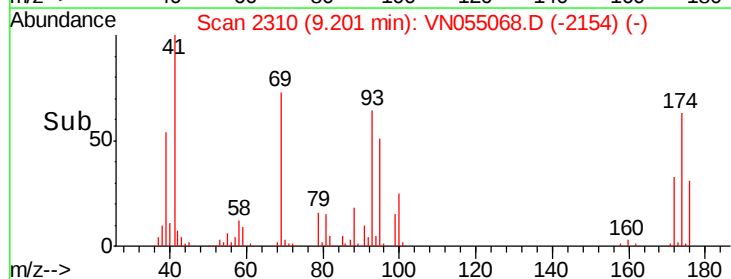
39 54.6 29.4 88.2

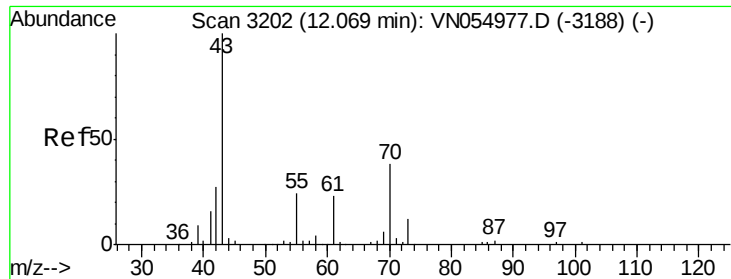


Abundance Ion 41.00 (40.70 to 41.70): VN055068.D (-2154) (-)

Ion 69.00 (68.70 to 69.70): VN055068.D (-2154) (-)

Ion 39.00 (38.70 to 39.70): VN055068.D (-2154) (-)





#47

n-amvl Acetate

Concen: 23.125 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

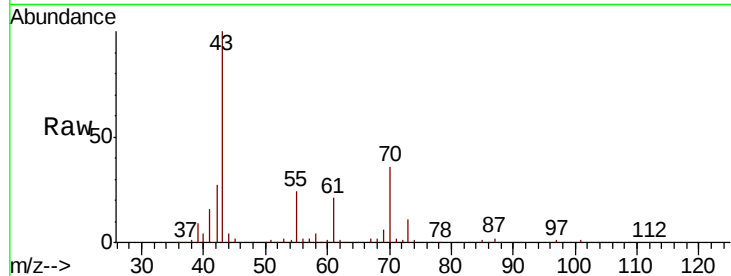
VSTDCCC020

Tot Ion: 43 Resp: 120469

Ion Ratio Lower Upper

43 100

55 24.4 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

12.07

80000

60000

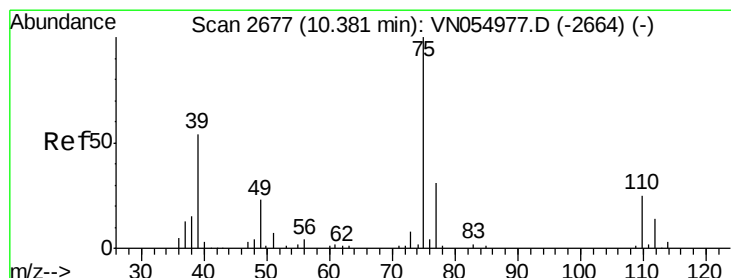
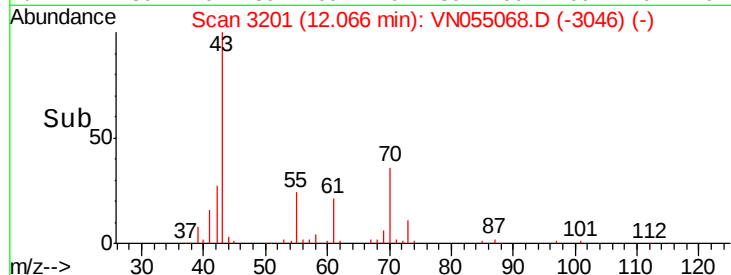
40000

20000

0

12.00 12.10

Time-->



#48

t-1,3-Dichloropropene

Concen: 21.210 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055068.D

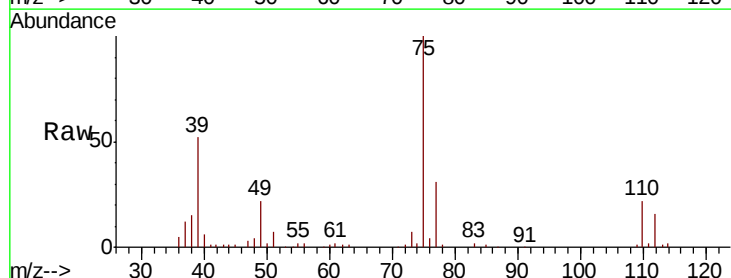
Acq: 16 Apr 2019 10:08

Tgt Ion: 75 Resp: 114744

Ion Ratio Lower Upper

75 100

77 30.5 24.6 37.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

10.38

60000

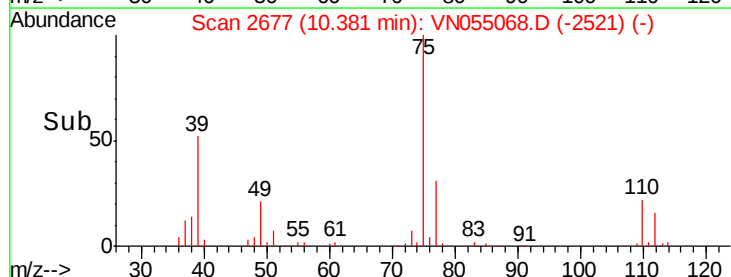
40000

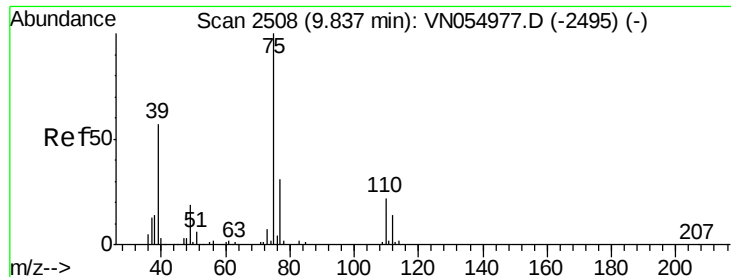
20000

0

10.30 10.35 10.40 10.45

Time-->





#49

cis-1,3-Dichloropropene

Concen: 21.057 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

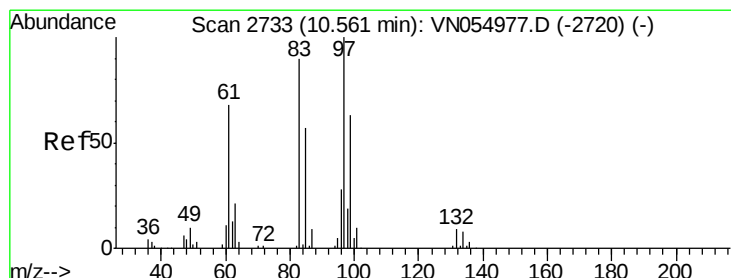
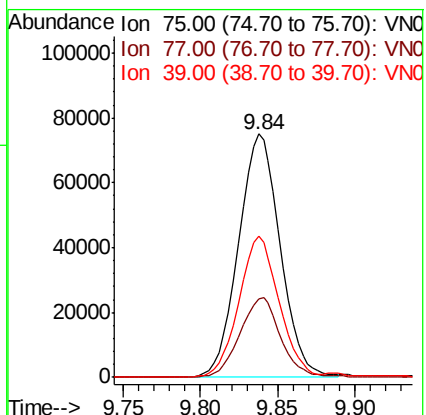
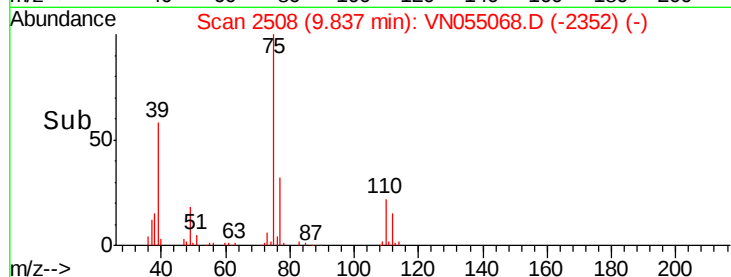
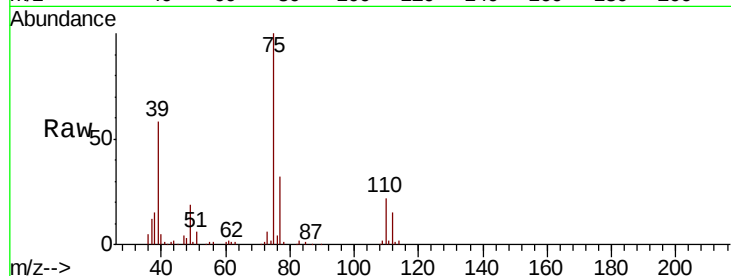
Tot Ion: 75 Resp: 140633

Ion Ratio Lower Upper

75 100

77 32.3 24.7 37.1

39 57.8 45.3 67.9



#50

1,1,2-Trichloroethane

Concen: 21.742 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Tgt Ion: 97 Resp: 84294

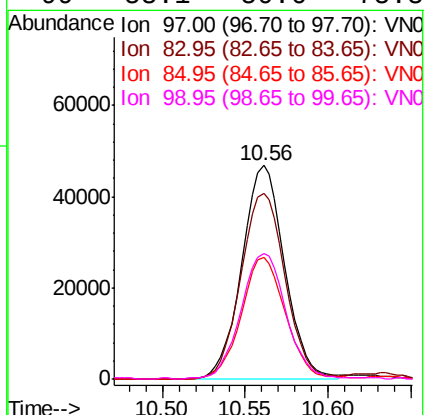
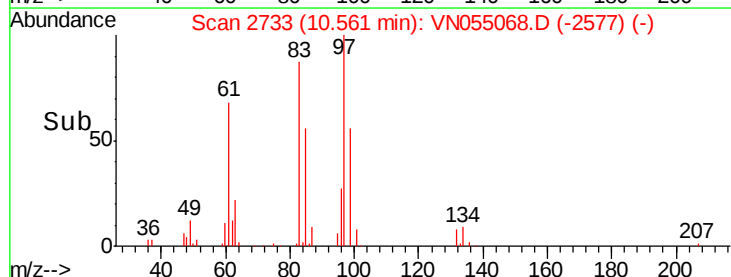
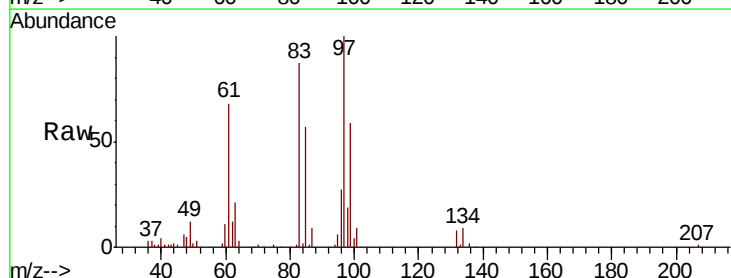
Ion Ratio Lower Upper

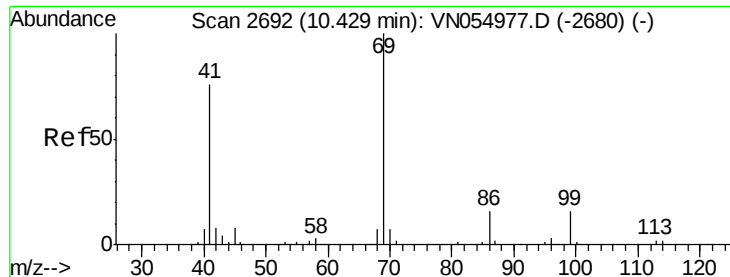
97 100

83 87.1 72.1 108.1

85 56.8 45.4 68.0

99 58.1 50.6 75.8





#51

Ethyl methacrylate

Concen: 21.663 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

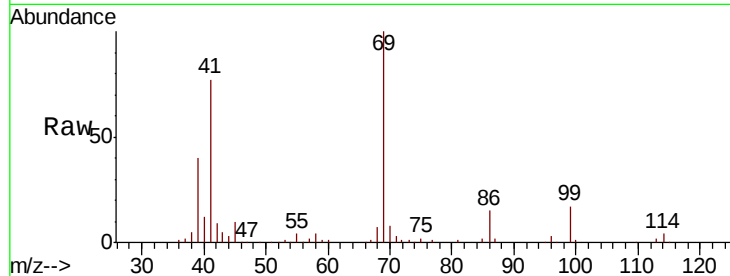
Tot Ion: 69 Resp: 100119

Ion Ratio Lower Upper

69 100

41 76.3 37.9 113.7

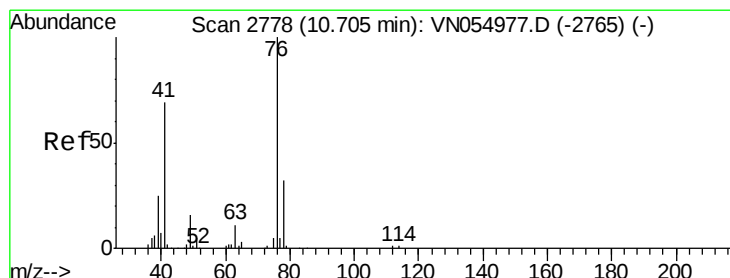
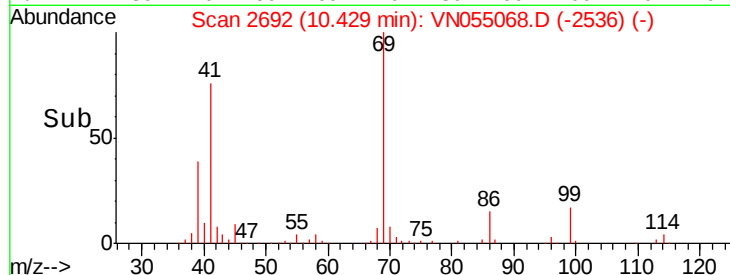
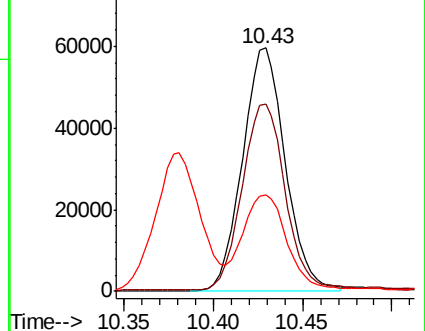
39 38.4 19.8 59.4



Abundance Ion 69.00 (68.70 to 69.70): VN055068.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN055068.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN055068.D (-2536) (-)



#52

1,3-Dichloropropane

Concen: 22.191 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055068.D

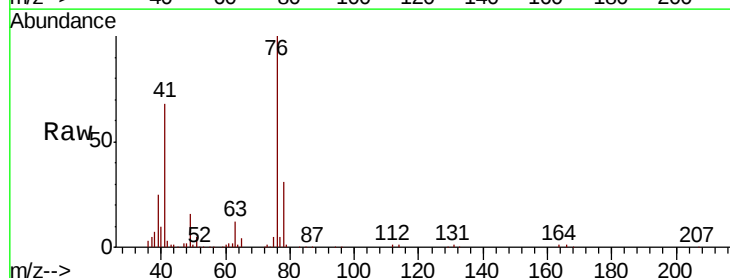
Acq: 16 Apr 2019 10:08

Tgt Ion: 76 Resp: 150756

Ion Ratio Lower Upper

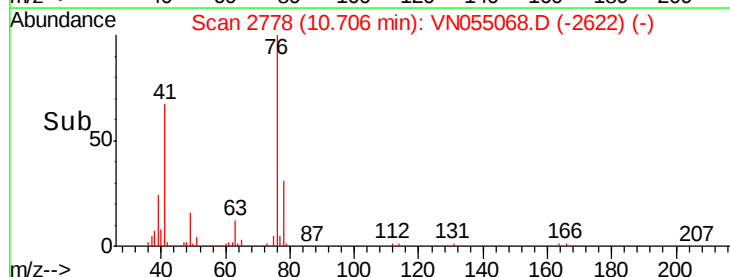
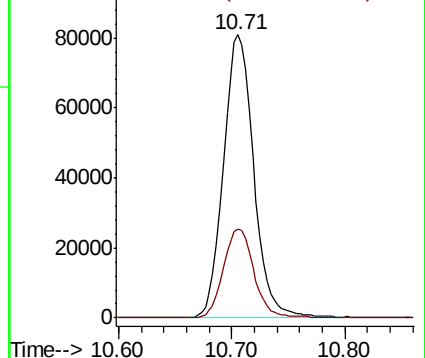
76 100

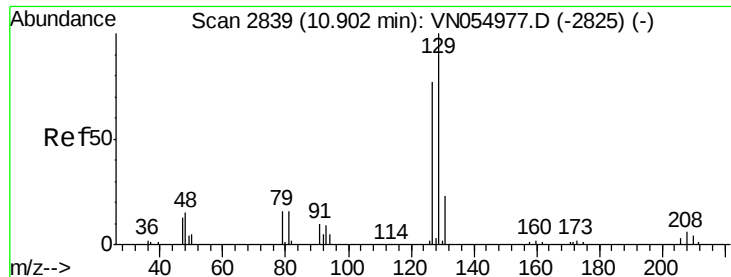
78 31.4 0.0 64.4



Abundance Ion 76.00 (75.70 to 76.70): VN055068.D (-2622) (-)

Ion 78.00 (77.70 to 78.70): VN055068.D (-2622) (-)





#53

Dibromochloromethane

Concen: 20.822 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

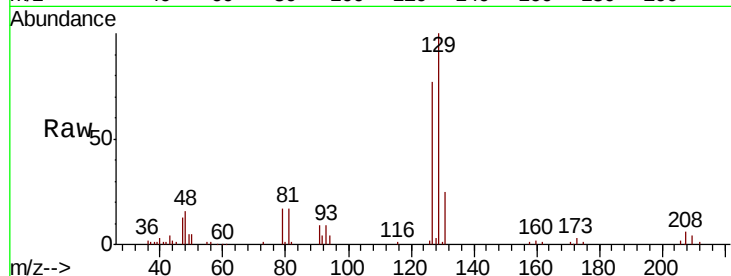
VSTDCCC020

Tot Ion:129 Resp: 83156

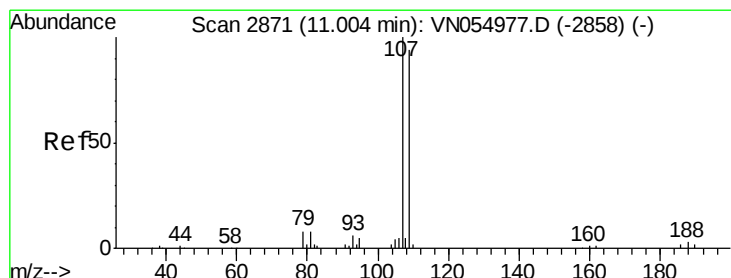
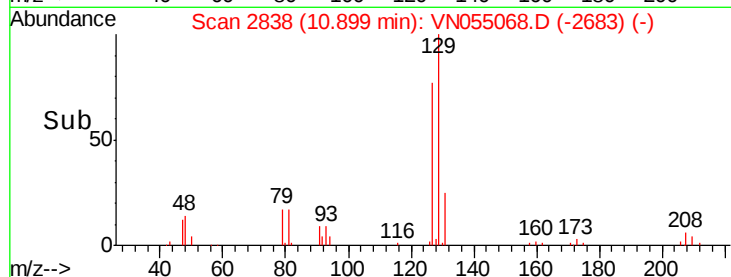
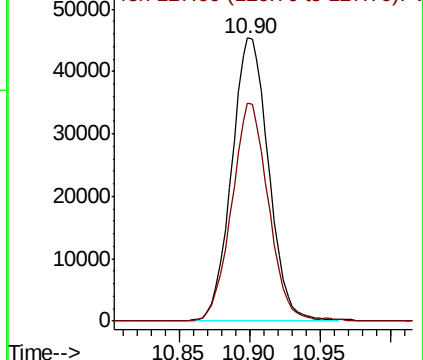
Ion Ratio Lower Upper

129 100

127 76.0 37.8 113.3



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 21.654 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055068.D

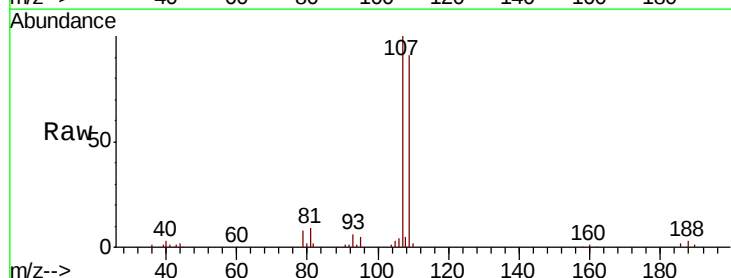
Acq: 16 Apr 2019 10:08

Tgt Ion:107 Resp: 78817

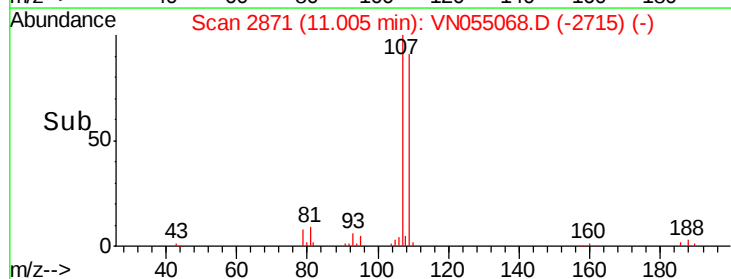
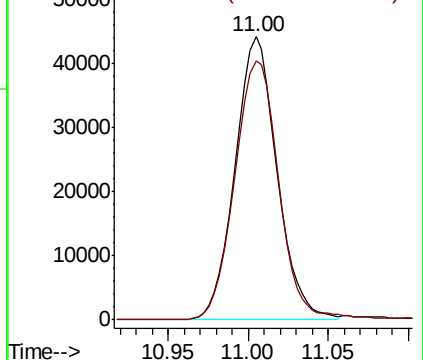
Ion Ratio Lower Upper

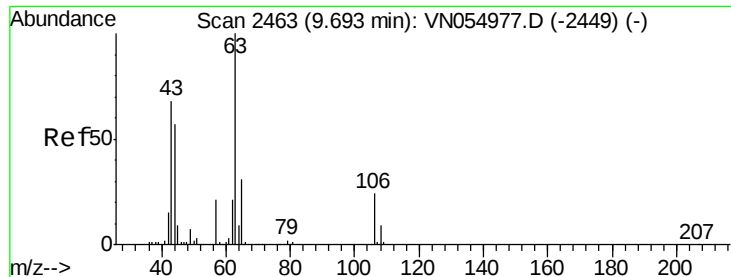
107 100

109 96.4 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: 98.067 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

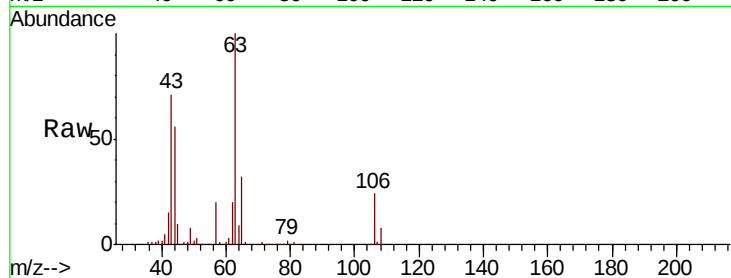
Tot Ion: 63 Resp: 189478

Ion Ratio Lower Upper

63 100

65 31.8 25.4 38.0

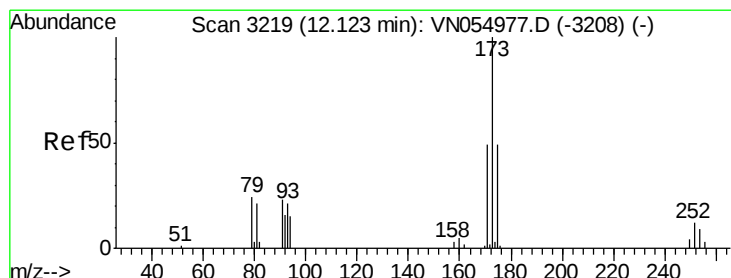
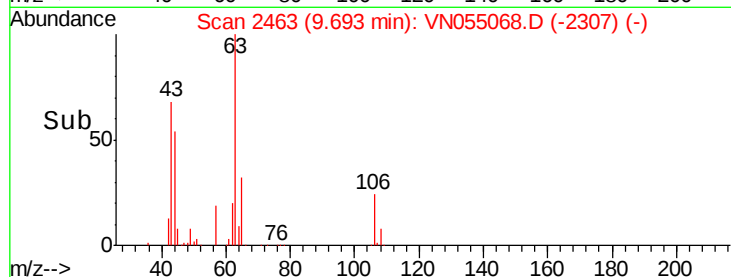
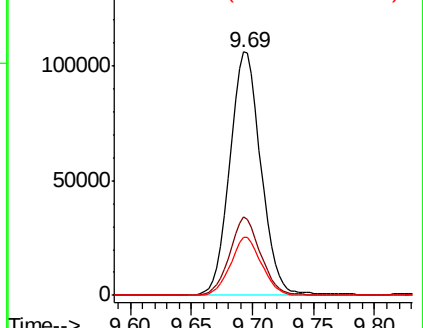
106 23.6 19.8 29.6



Abundance Ion 63.00 (62.70 to 63.70): VN054977.D (-2449) (-)

Ion 65.00 (64.70 to 65.70): VN054977.D (-2449) (-)

Ion 106.00 (105.70 to 106.70): VN054977.D (-2449) (-)



#56

Bromoform

Concen: 20.142 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

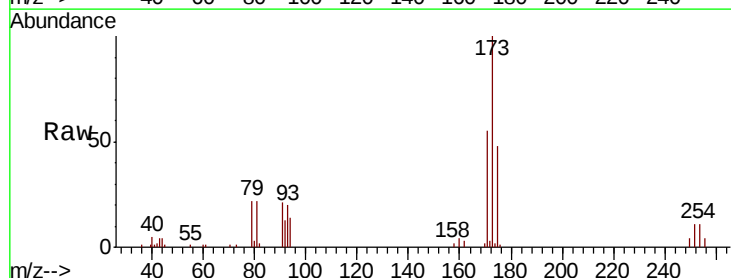
Tgt Ion: 173 Resp: 50544

Ion Ratio Lower Upper

173 100

175 49.0 38.6 57.8

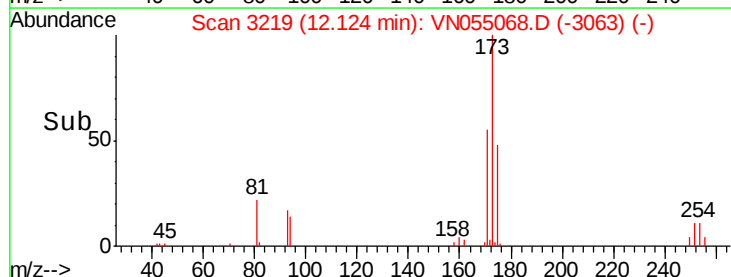
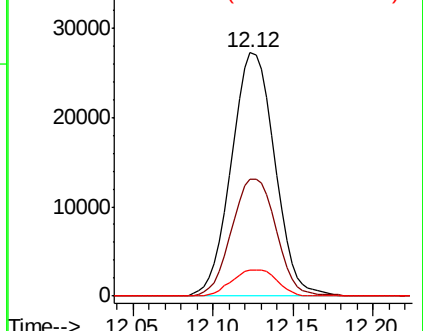
254 11.1 6.8 10.2#

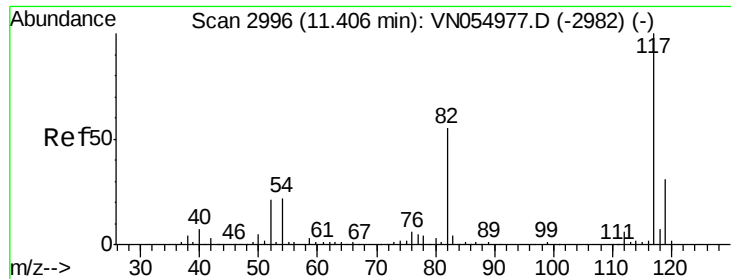


Abundance Ion 173.00 (172.70 to 173.70): VN054977.D (-3208) (-)

Ion 175.00 (174.70 to 175.70): VN054977.D (-3208) (-)

Ion 254.00 (253.70 to 254.70): VN054977.D (-3208) (-)

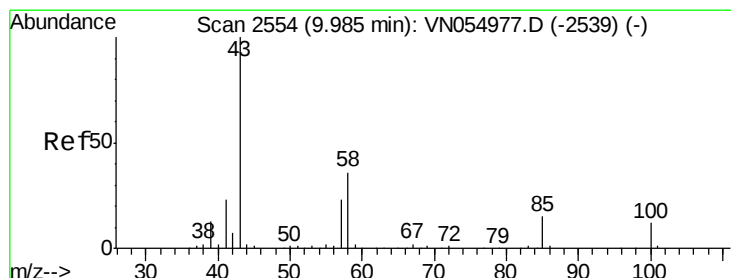
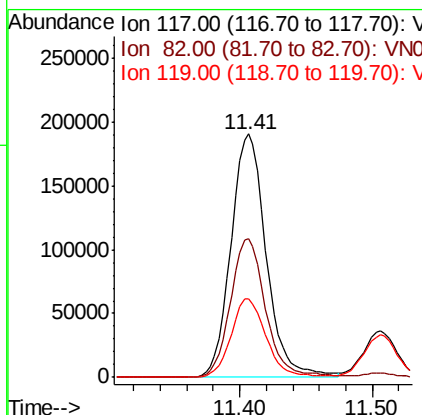
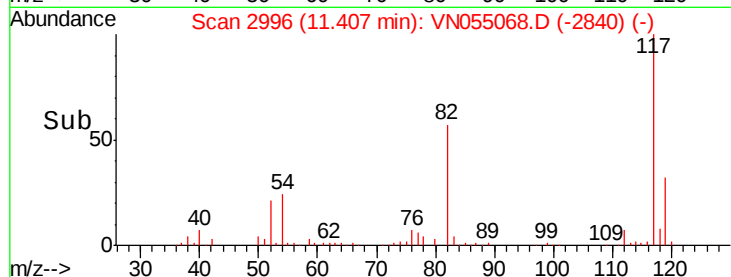
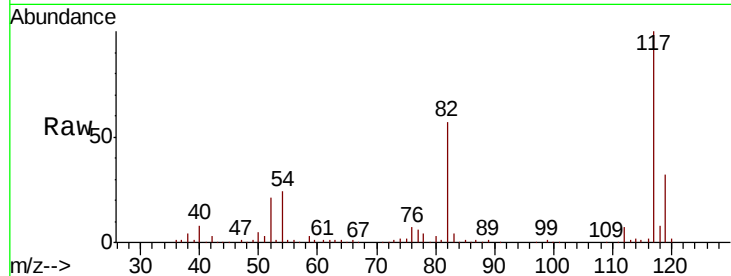




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

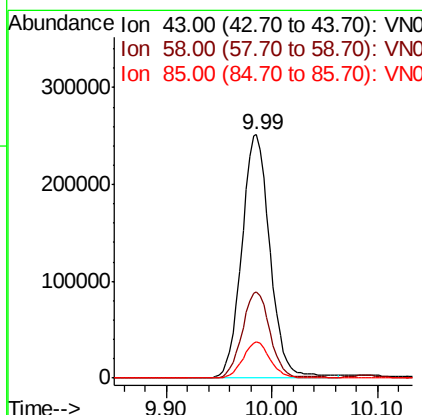
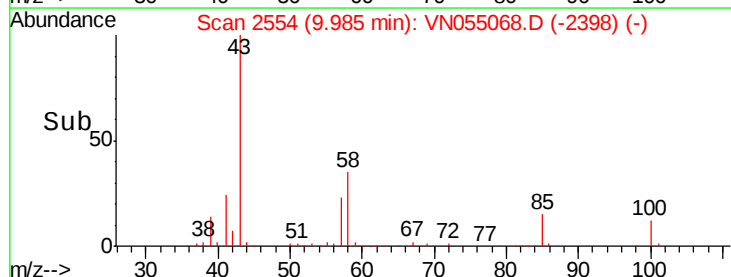
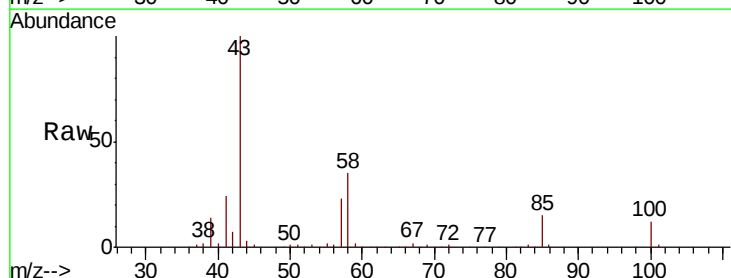
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

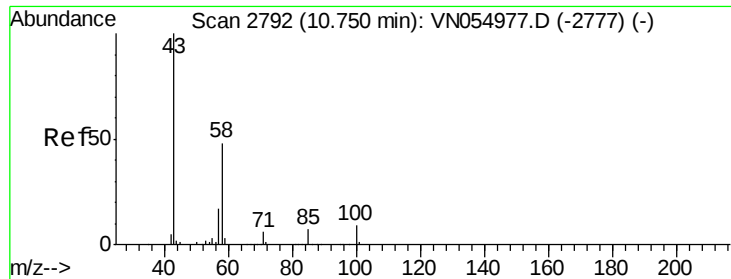
Tot Ion:117 Resp: 352546
Ion Ratio Lower Upper
117 100
82 56.8 45.2 67.8
119 32.0 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 114.490 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 43 Resp: 465469
Ion Ratio Lower Upper
43 100
58 34.8 28.7 43.1
85 14.3 11.8 17.6

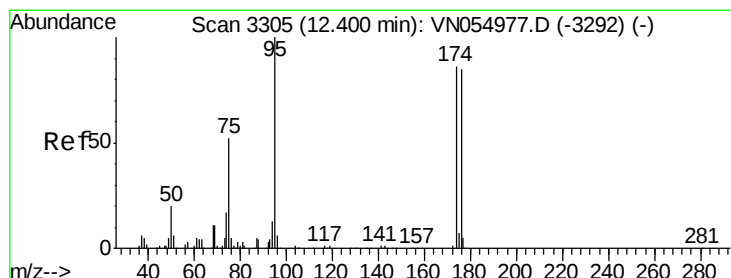
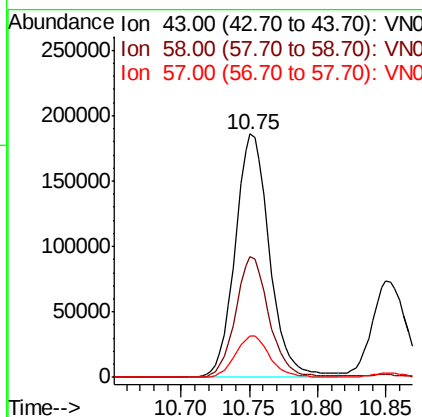
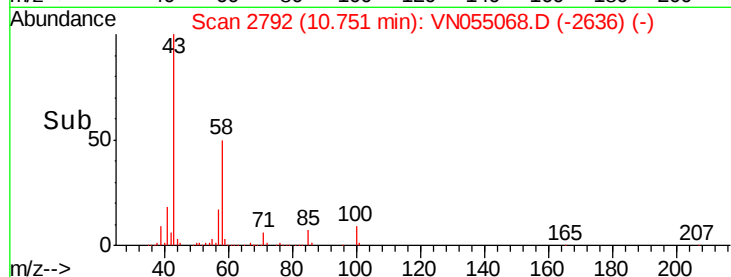
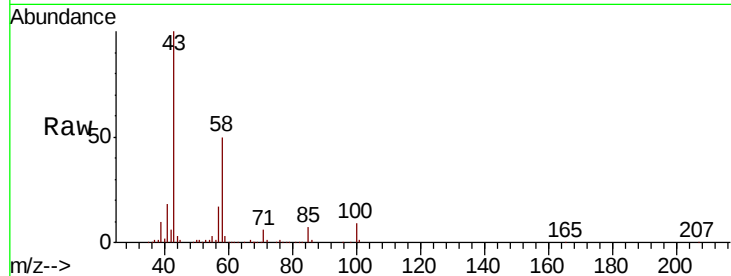




#59
2-Hexanone
Concen: 124.881 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

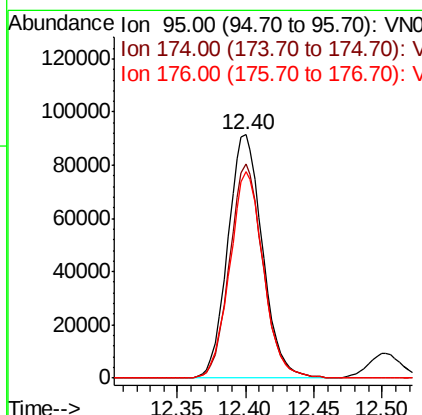
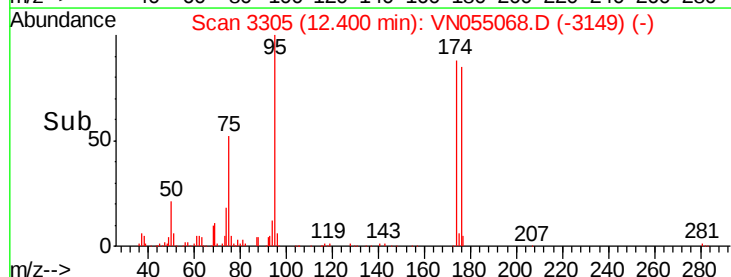
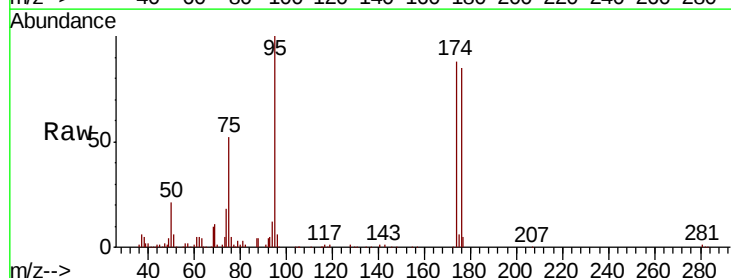
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

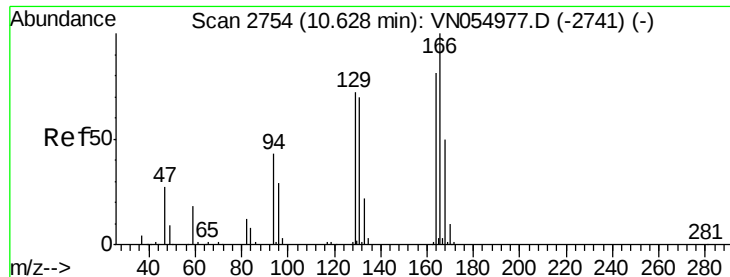
Tot Ion	Ratio	Lower	Upper
43	100		
58	48.6	38.8	58.2
57	17.2	13.8	20.6



#60
4-Bromofluorobenzene
Concen: 124.881 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.8	69.4	104.2
176	82.5	67.4	101.2

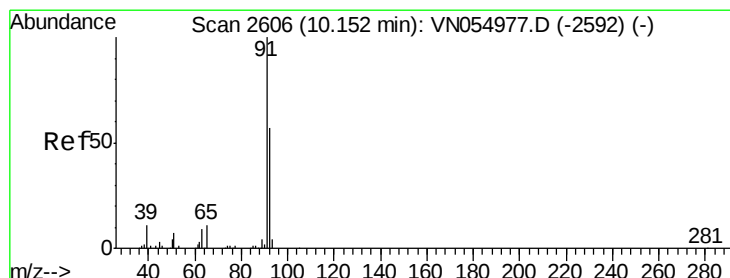
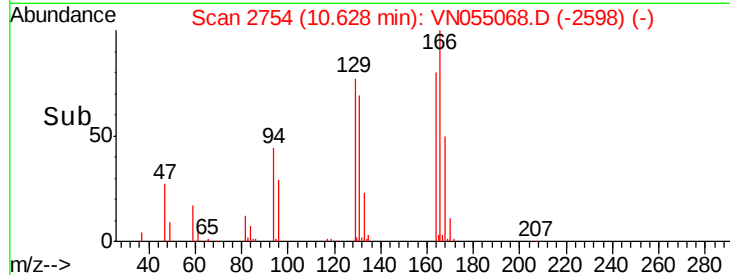
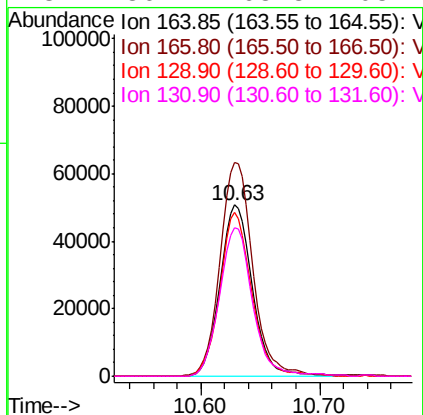
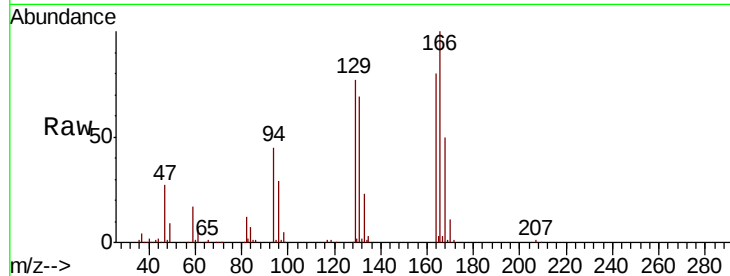




#61
Tetrachloroethene
Concen: 20.895 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

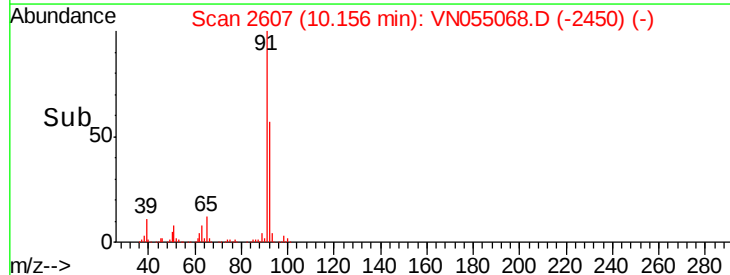
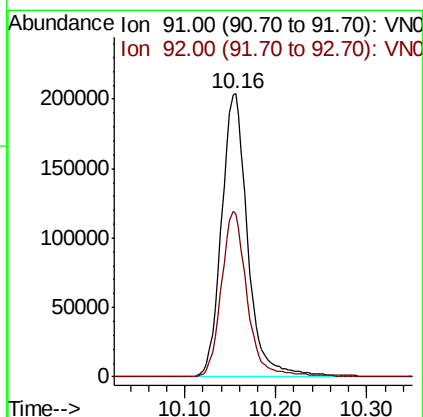
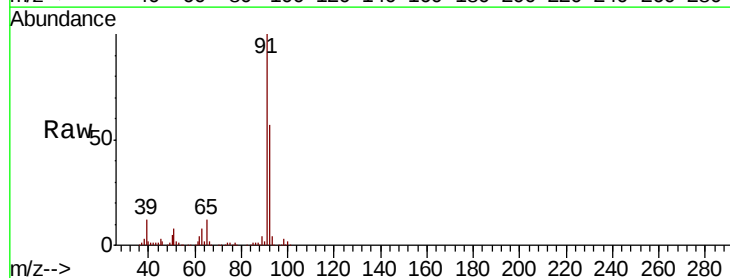
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

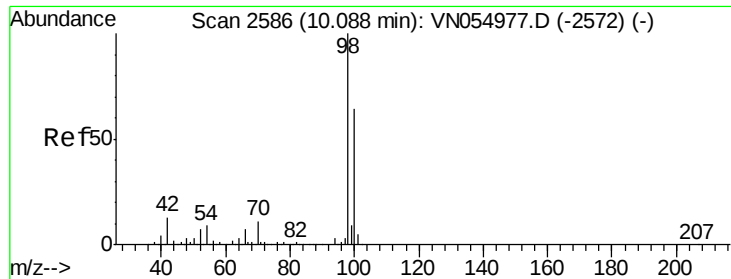
Tot Ion:164 Resp: 95867
Ion Ratio Lower Upper
164 100
166 124.3 99.0 148.4
129 96.1 71.4 107.0
131 86.4 68.8 103.2



#62
Toluene
Concen: 21.000 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 91 Resp: 407931
Ion Ratio Lower Upper
91 100
92 56.8 44.8 67.2





#63

Toluene-d8

Concen: 21.000 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

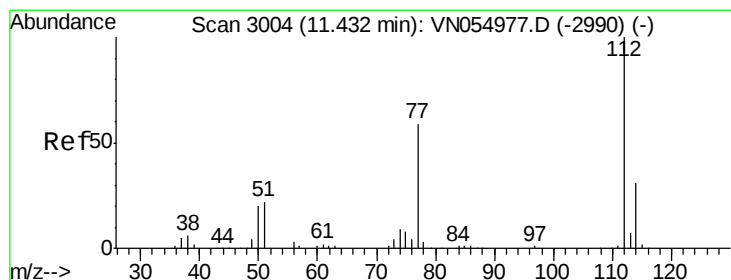
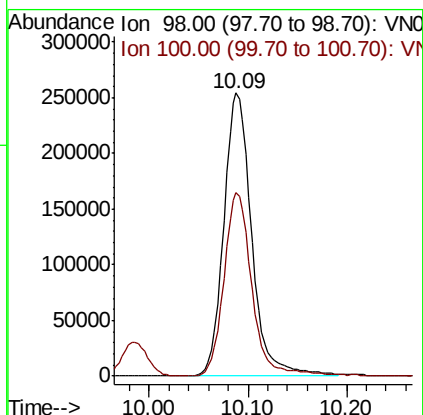
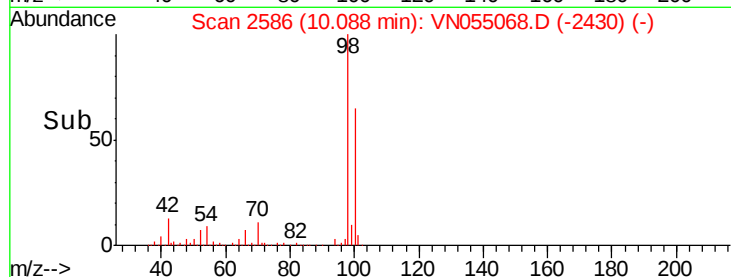
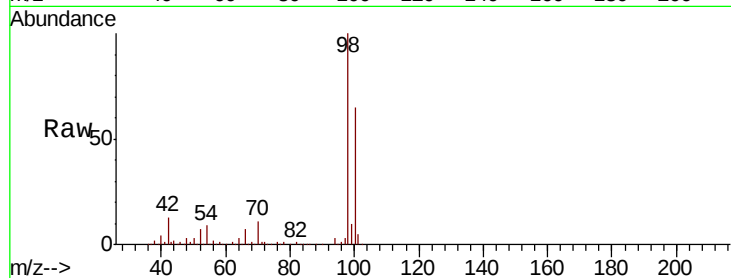
VSTDCCC020

Tot Ion: 98 Resp: 506371

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#64

Chlorobenzene

Concen: 20.524 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055068.D

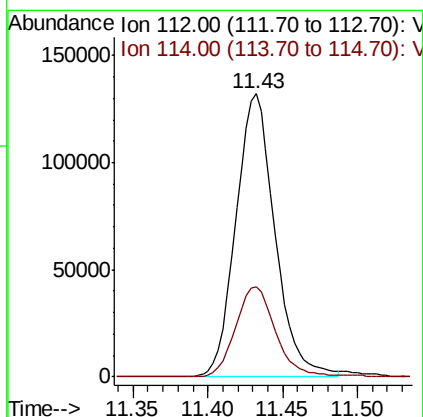
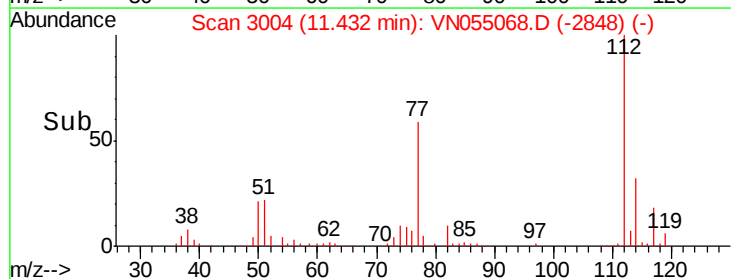
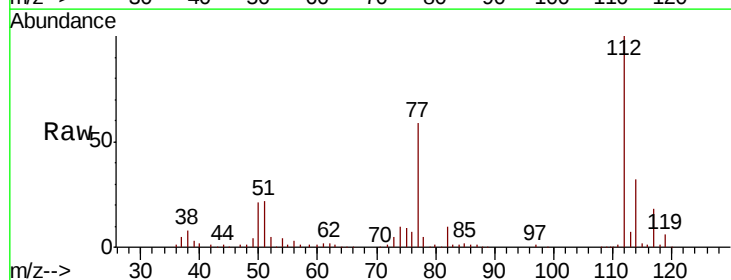
Acq: 16 Apr 2019 10:08

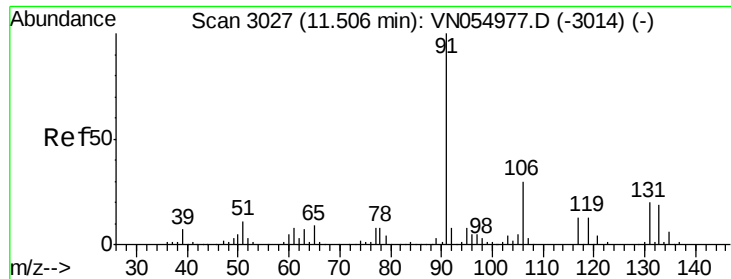
Tgt Ion: 112 Resp: 240684

Ion Ratio Lower Upper

112 100

114 31.9 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 21.953 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

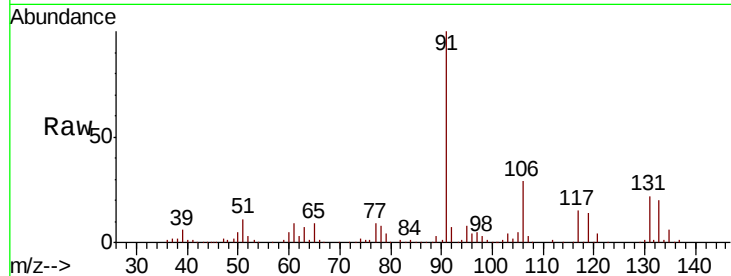
Tot Ion:131 Resp: 91562

Ion Ratio Lower Upper

131 100

133 92.2 0.0 187.8

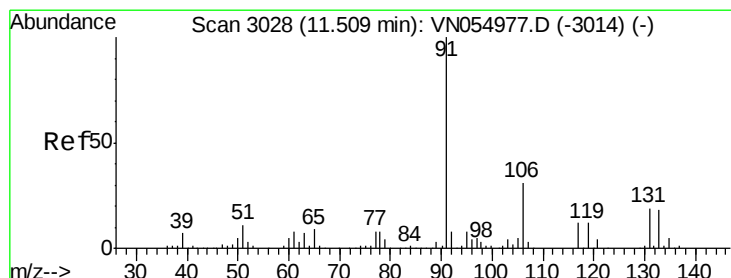
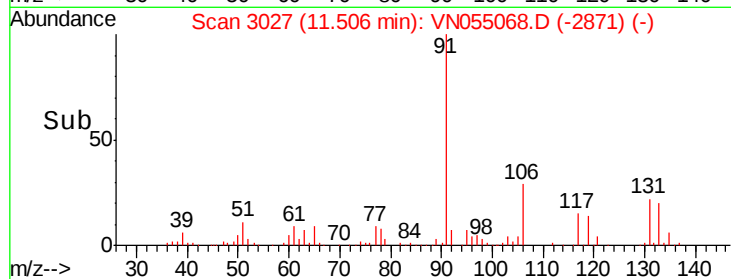
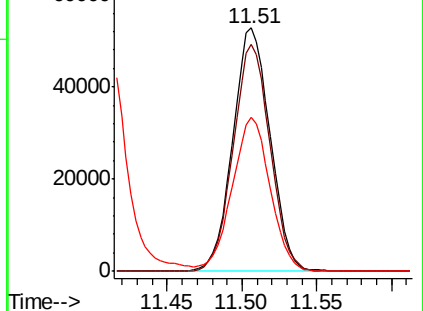
119 64.6 0.0 131.4



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: 20.868 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055068.D

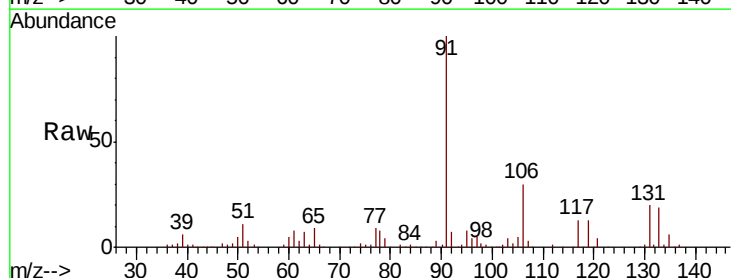
Acq: 16 Apr 2019 10:08

Tgt Ion: 91 Resp: 434535

Ion Ratio Lower Upper

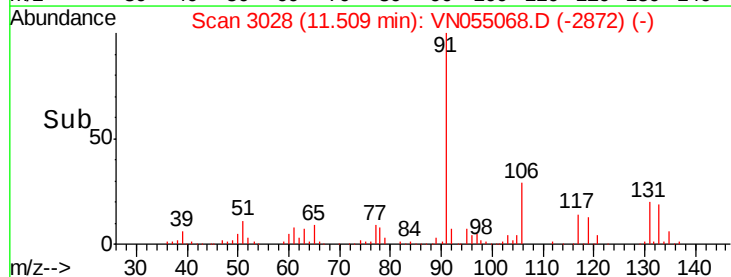
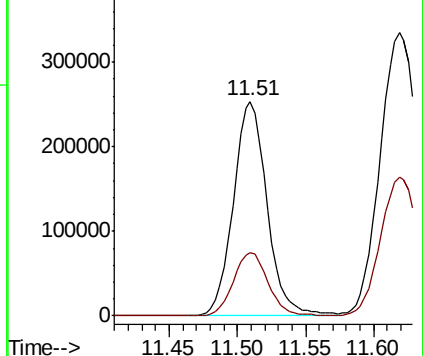
91 100

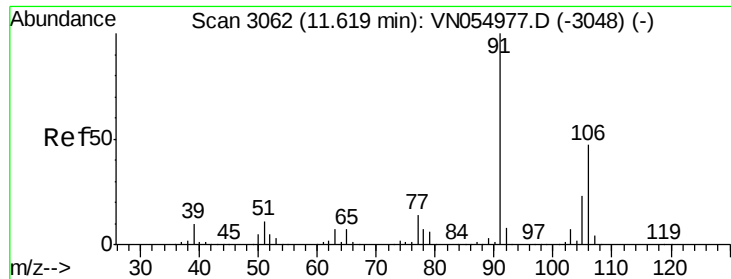
106 29.7 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

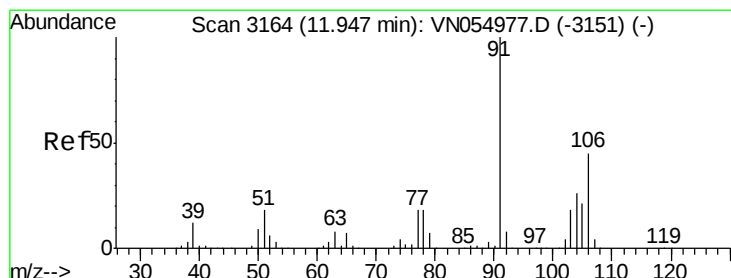
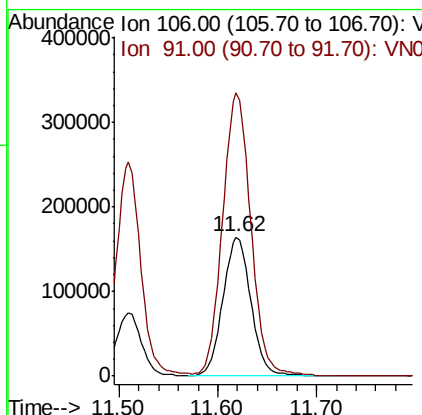
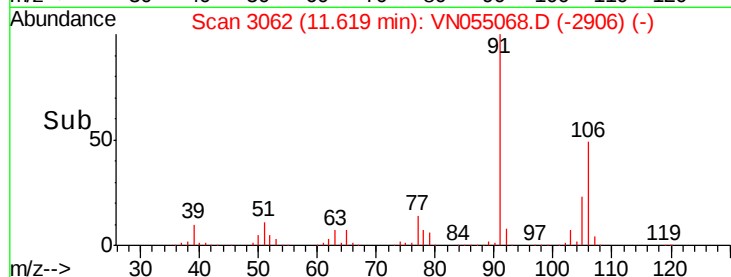
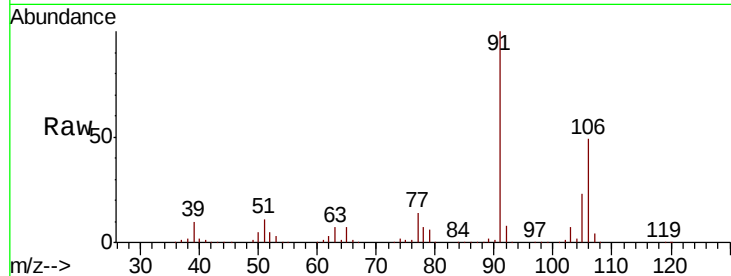




#67
m/p-Xylenes
Concen: 42.459 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

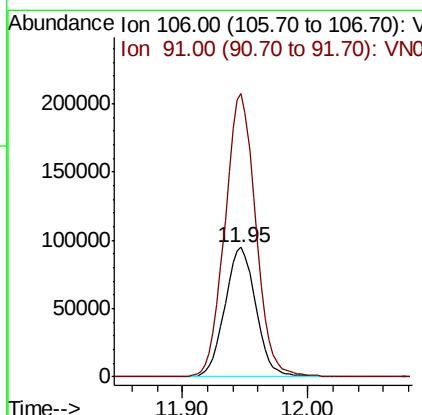
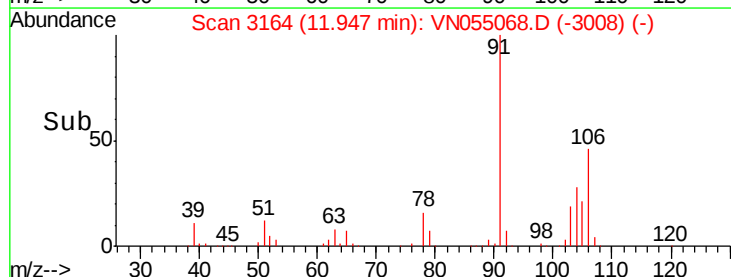
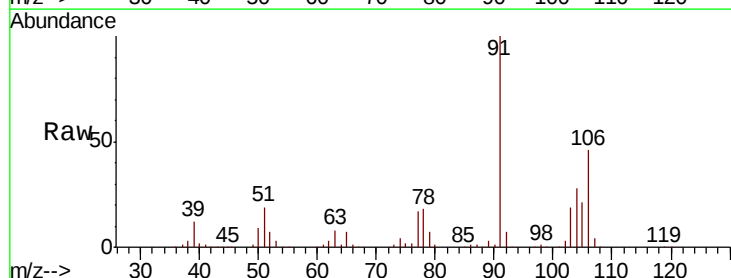
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

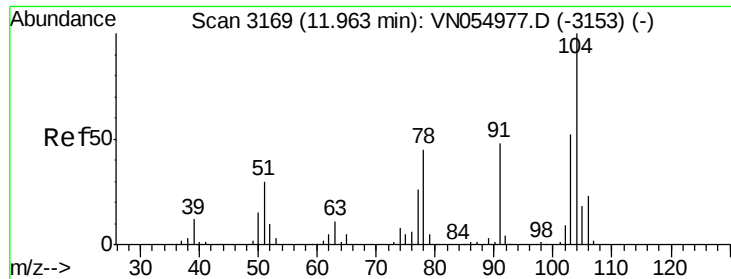
Tot Ion:106 Resp: 328633
Ion Ratio Lower Upper
106 100
91 205.2 167.4 251.2



#68
o-Xylene
Concen: 21.281 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion:106 Resp: 162774
Ion Ratio Lower Upper
106 100
91 217.3 110.3 330.8

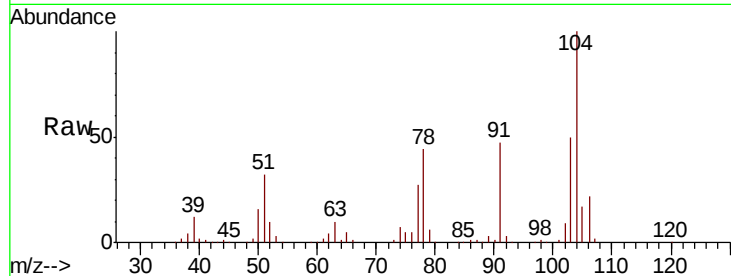




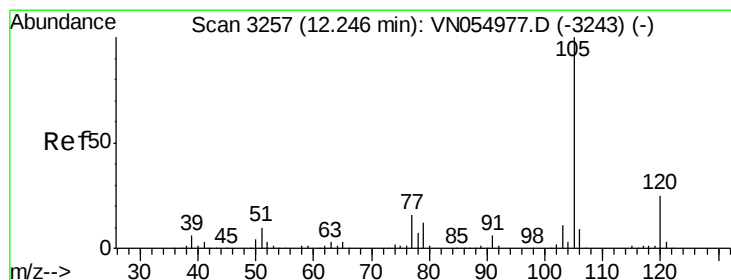
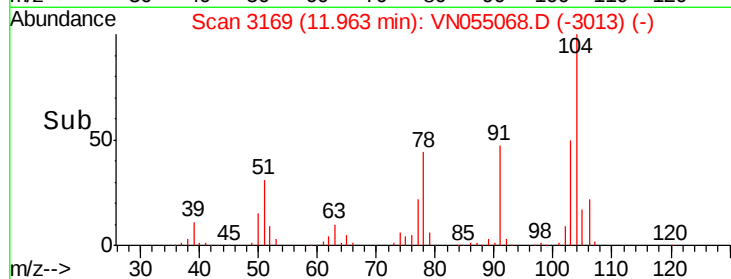
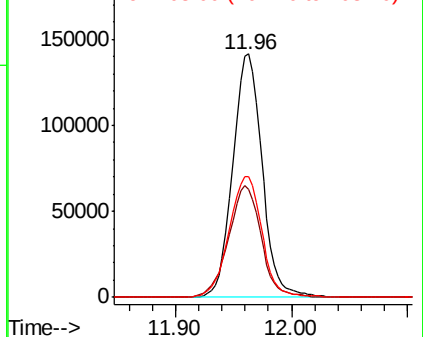
#69
Stvrene
Concen: 20.880 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:104 Resp: 248003
Ion Ratio Lower Upper
104 100
78 50.7 41.2 61.8
103 55.7 44.6 67.0

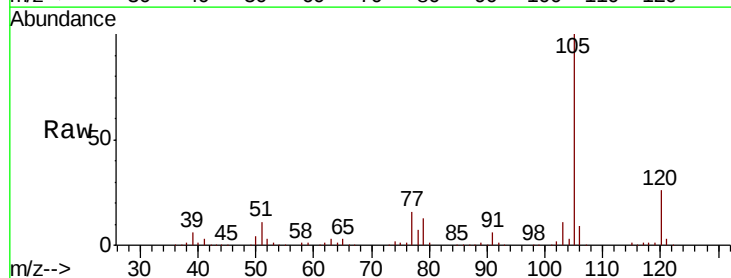


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

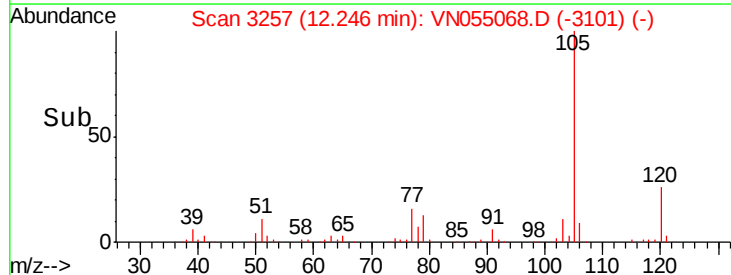
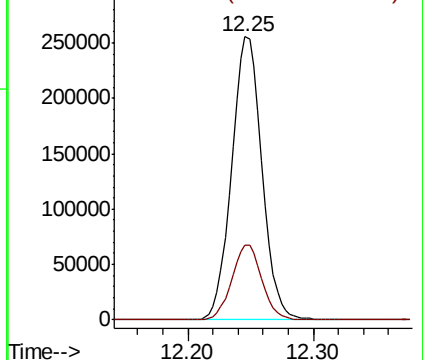


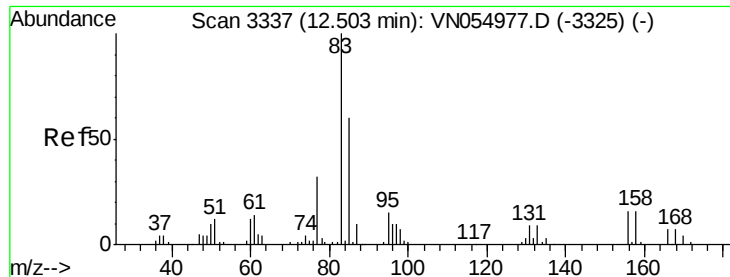
#70
Isopropylbenzene
Concen: 20.897 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion:105 Resp: 427369
Ion Ratio Lower Upper
105 100
120 26.4 18.3 33.9



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

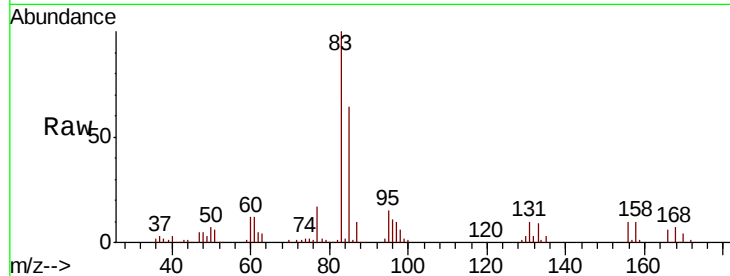




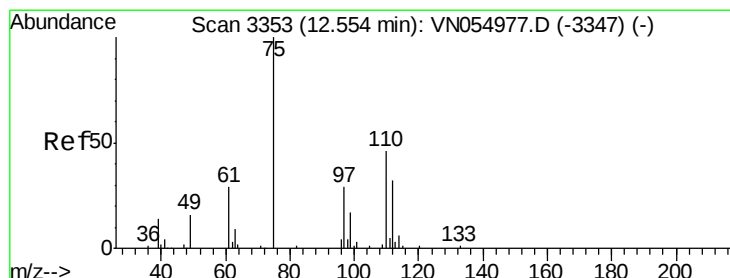
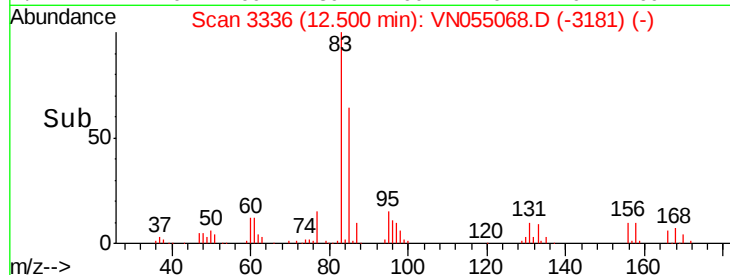
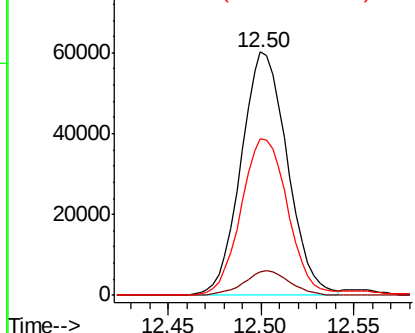
#71
 1,1,2,2-Tetrachloroethane
 Concen: 22.410 ug/l
 RT: 12.50 min Scan# 3336
 Delta R.T. -0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 83 Resp: 104823
 Ion Ratio Lower Upper
 83 100
 131 10.0 4.6 13.8
 85 64.9 30.9 92.5

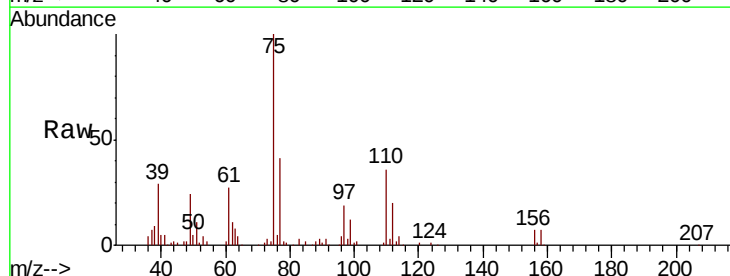


Abundance Ion 83.00 (82.70 to 83.70): VNO
 Ion 131.00 (130.70 to 131.70): VNO
 Ion 85.00 (84.70 to 85.70): VNO

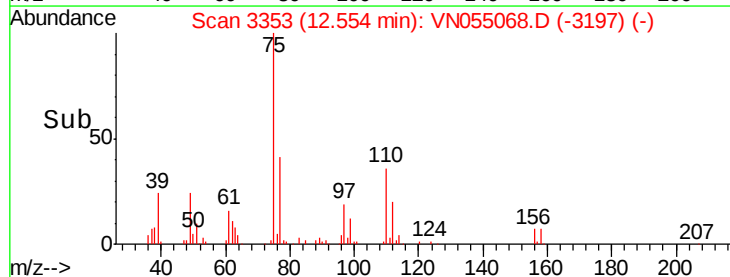
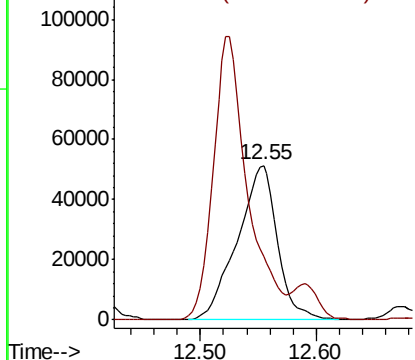


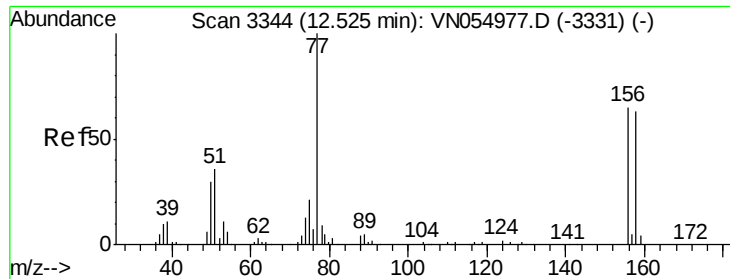
#72
 1,2,3-Trichloropropane
 Concen: 32.049 ug/l
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 75 Resp: 123803
 Ion Ratio Lower Upper
 75 100
 77 156.7 0.0 466.6



Abundance Ion 75.00 (74.70 to 75.70): VNO
 Ion 77.00 (76.70 to 77.70): VNO





#73

Bromobenzene

Concen: 20.494 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

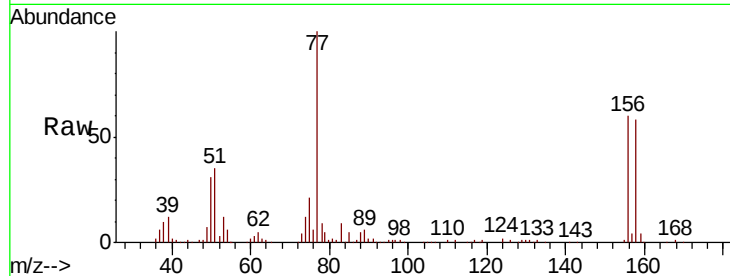
Tot Ion:156 Resp: 99066

Ion Ratio Lower Upper

156 100

77 195.9 0.0 383.2

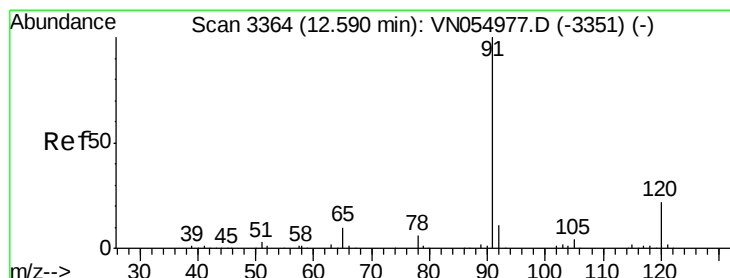
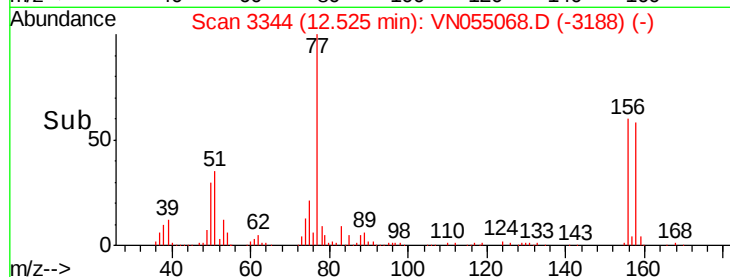
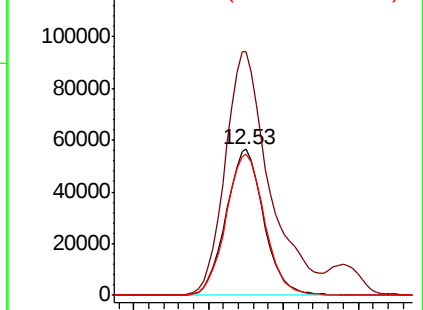
158 98.7 0.0 193.8



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.699 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055068.D

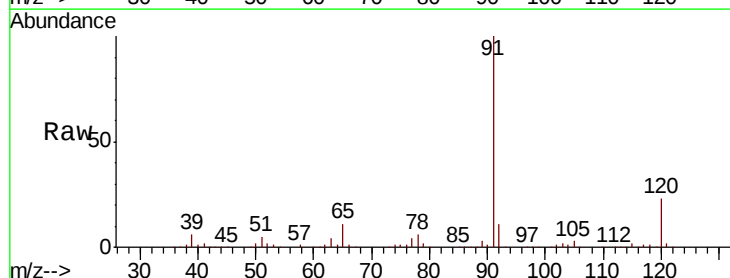
Acq: 16 Apr 2019 10:08

Tgt Ion: 91 Resp: 473904

Ion Ratio Lower Upper

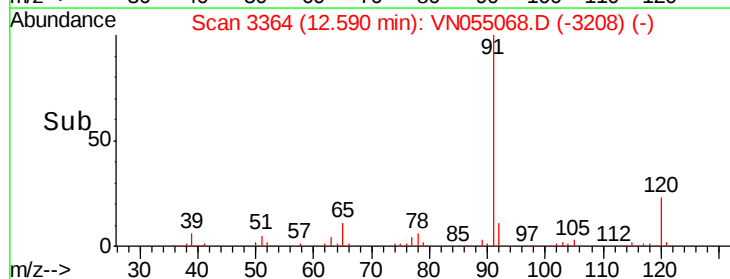
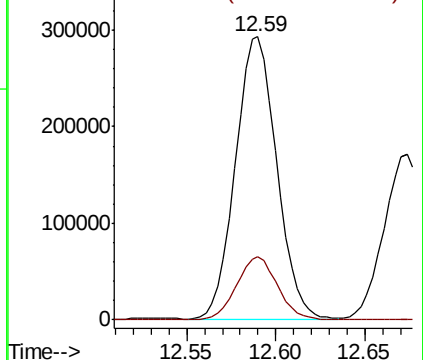
91 100

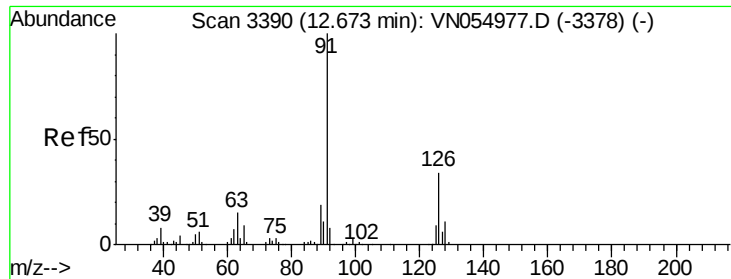
120 22.0 0.0 44.4



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 21.104 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

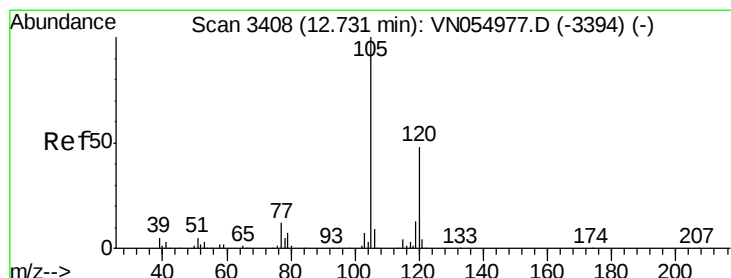
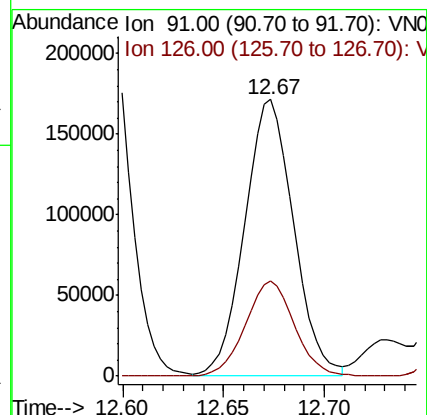
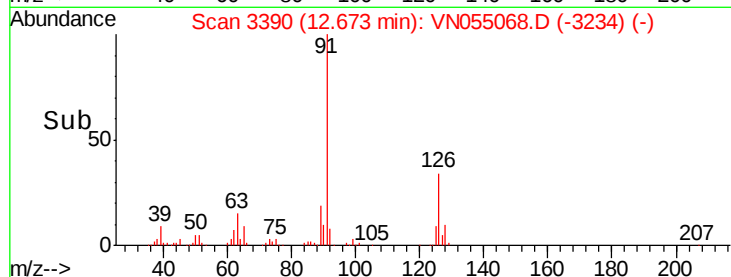
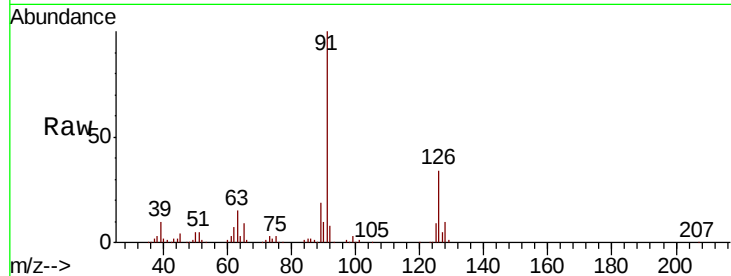
VSTDCCC020

Tot Ion: 91 Resp: 291415

Ion Ratio Lower Upper

91 100

126 34.4 0.0 67.4



#76

1,3,5-Trimethylbenzene

Concen: 20.809 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055068.D

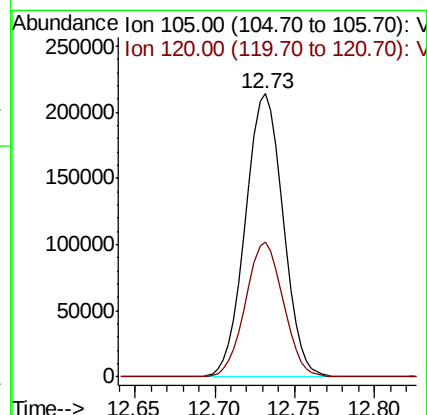
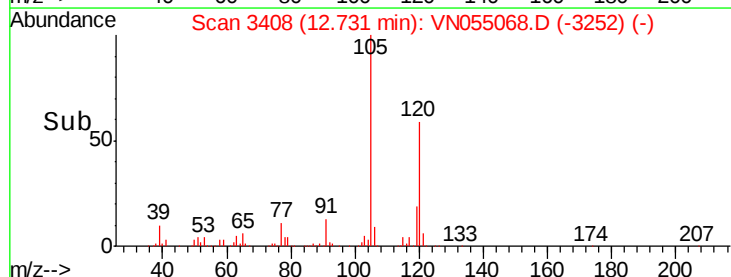
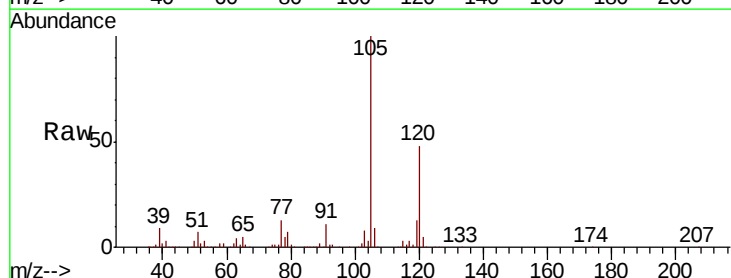
Acq: 16 Apr 2019 10:08

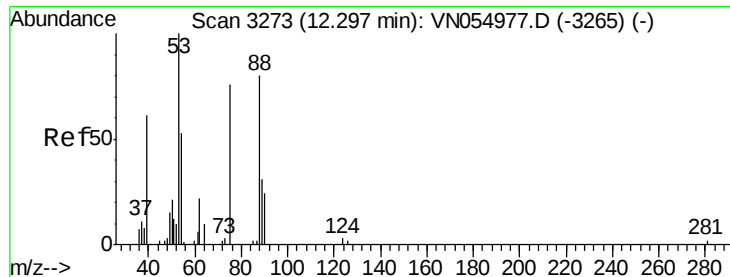
Tgt Ion: 105 Resp: 344060

Ion Ratio Lower Upper

105 100

120 47.8 0.0 94.8

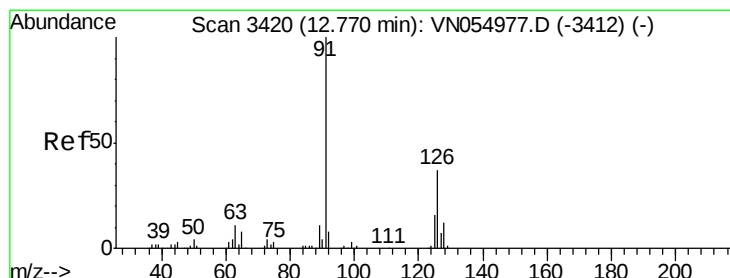
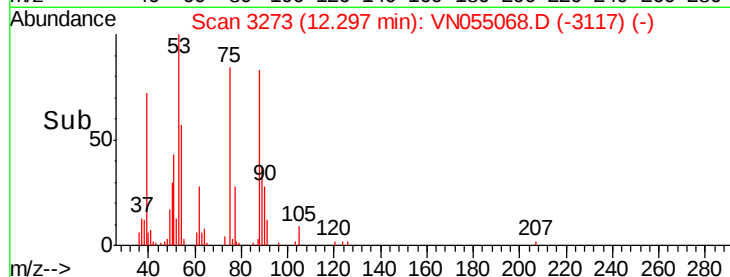
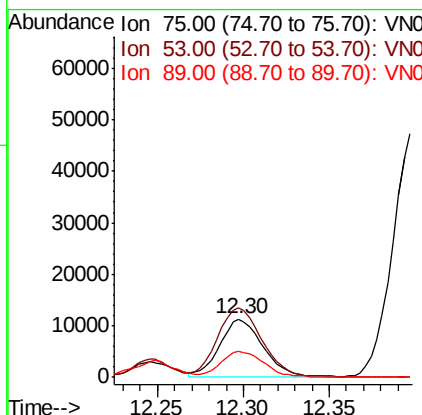
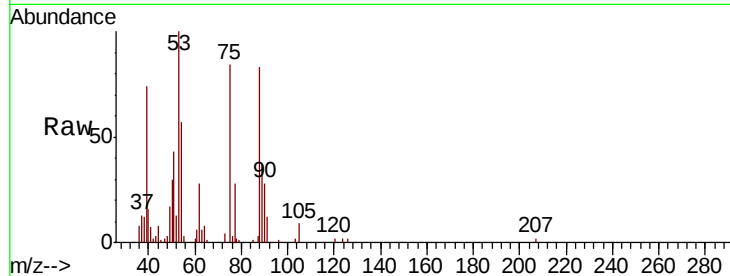




#77
t-1,4-Dichloro-2-butene
Concen: 20.664 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

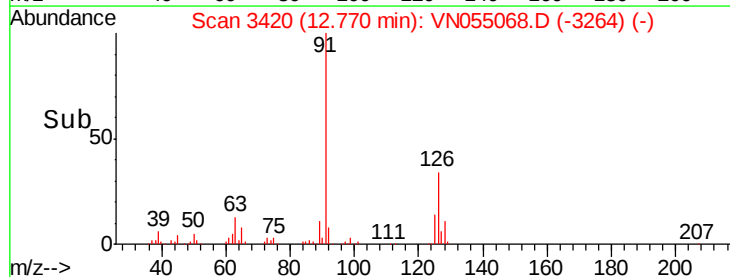
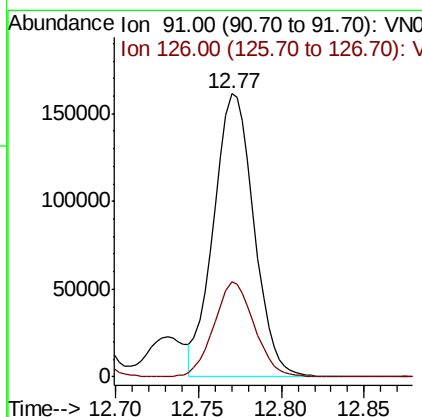
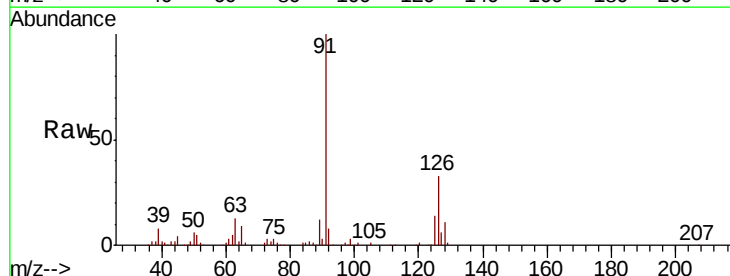
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

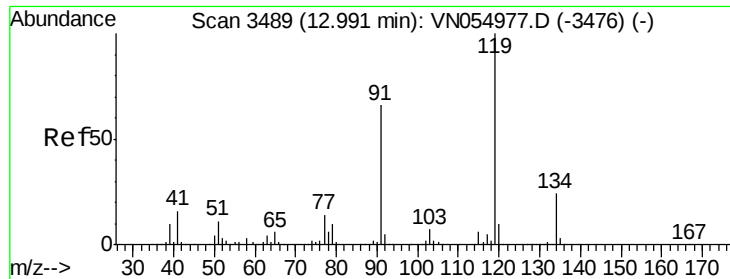
Tot Ion: 75 Resp: 20120
Ion Ratio Lower Upper
75 100
53 117.0 64.3 192.7
89 43.5 21.6 65.0



#78
4-Chlorotoluene
Concen: 20.726 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 91 Resp: 272689
Ion Ratio Lower Upper
91 100
126 33.8 0.0 66.6

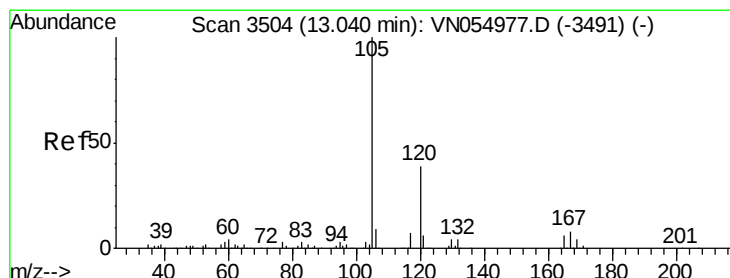
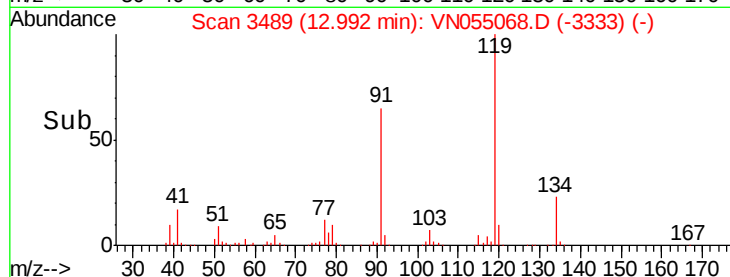
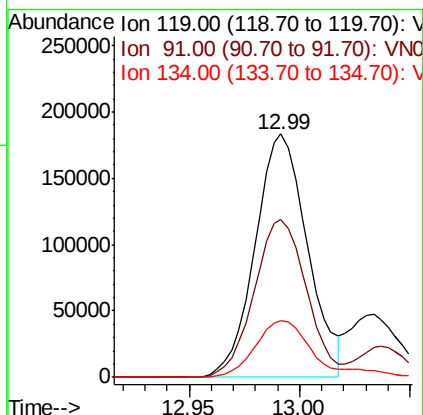
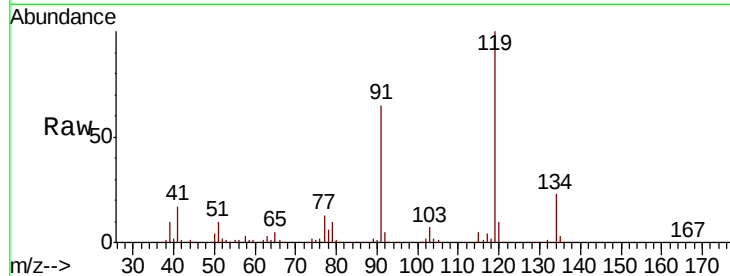




#79
tert-butylbenzene
Concen: 21.102 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

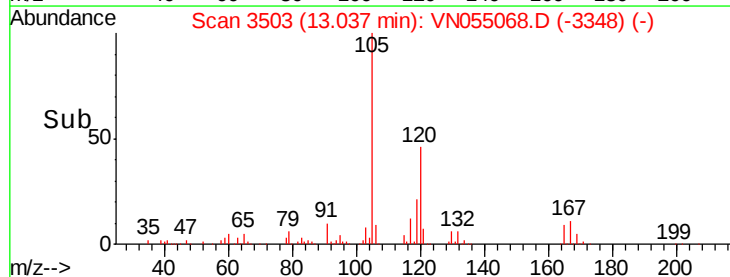
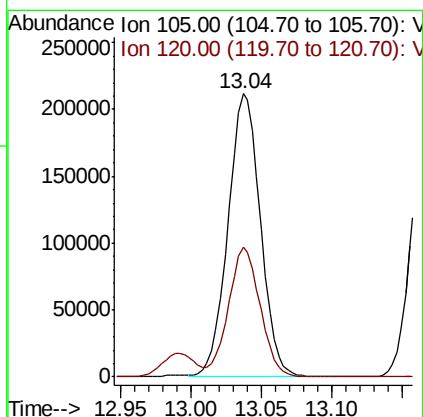
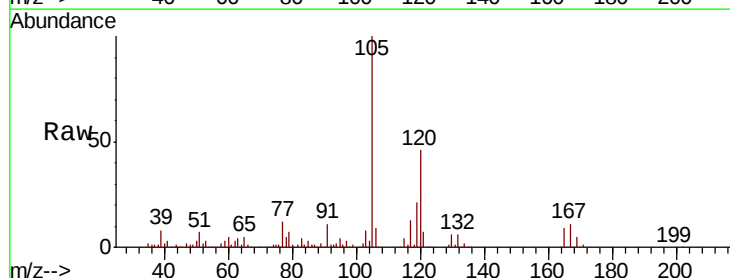
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

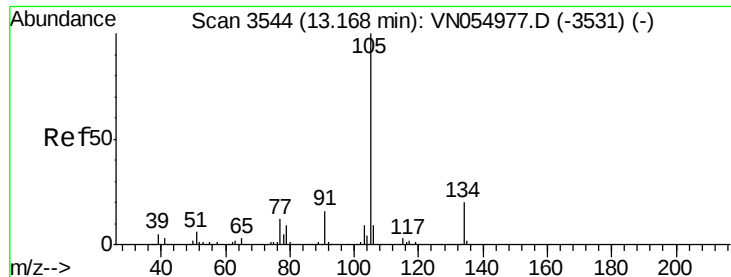
Tot Ion:119 Resp: 301884
Ion Ratio Lower Upper
119 100
91 65.3 0.0 132.6
134 23.9 0.0 47.6



#80
1,2,4-Trimethylbenzene
Concen: 20.939 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion:105 Resp: 340099
Ion Ratio Lower Upper
105 100
120 45.1 0.0 91.4





#81

sec-Butylbenzene

Concen: 20.493 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampled :

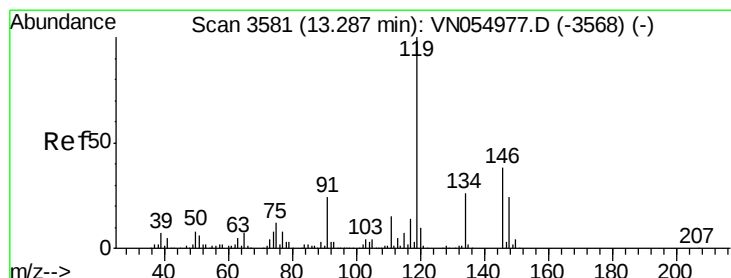
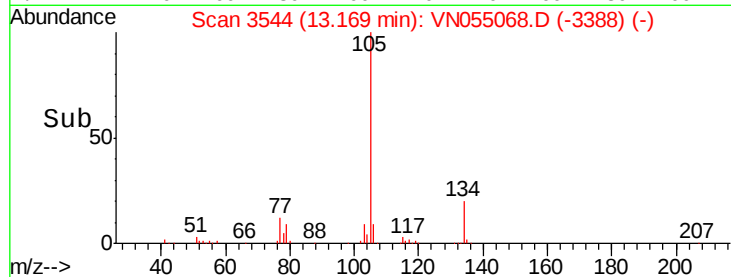
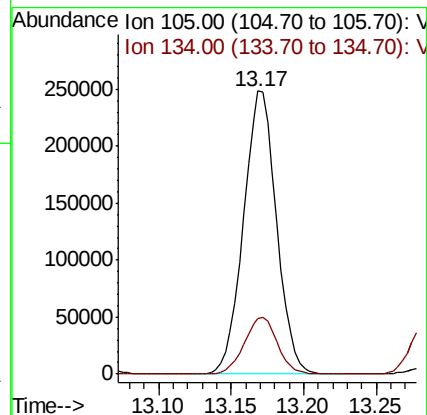
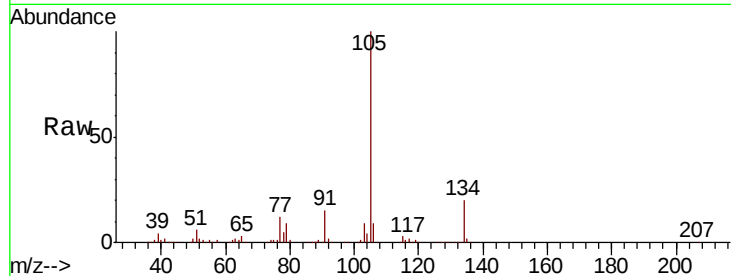
VSTDCCC020

Tot Ion:105 Resp: 391728

Ion Ratio Lower Upper

105 100

134 20.1 0.0 40.0



#82

p-Isopropyltoluene

Concen: 20.495 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

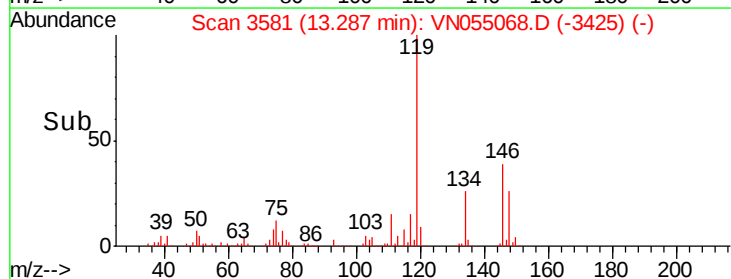
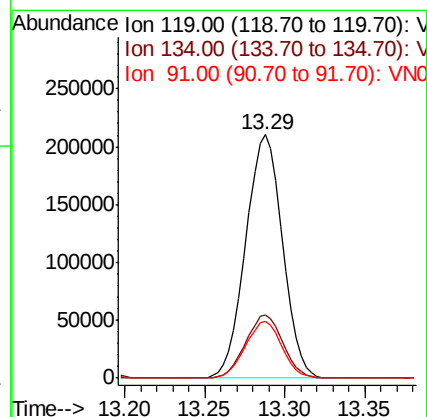
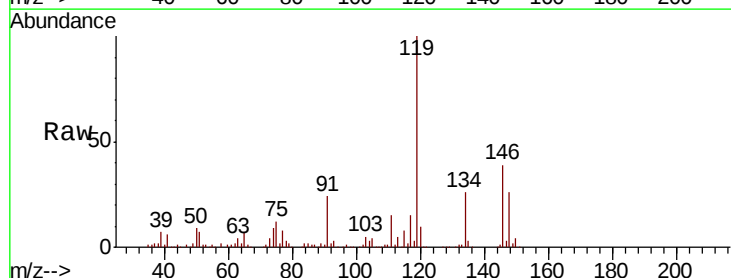
Tgt Ion:119 Resp: 330638

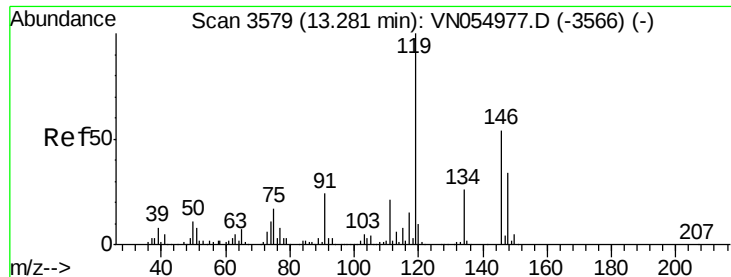
Ion Ratio Lower Upper

119 100

134 26.1 0.0 53.2

91 23.2 0.0 47.8





#83

1,3-Dichlorobenzene

Concen: 20.636 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

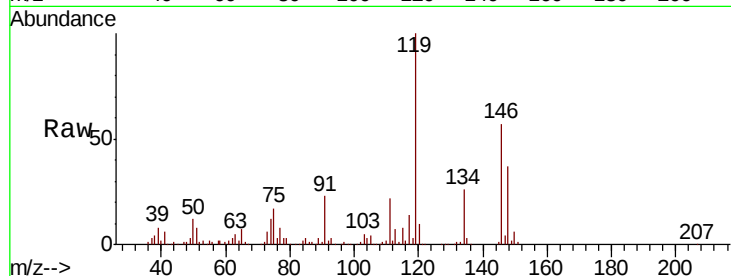
Tot Ion:146 Resp: 166877

Ion Ratio Lower Upper

146 100

111 39.3 19.1 57.5

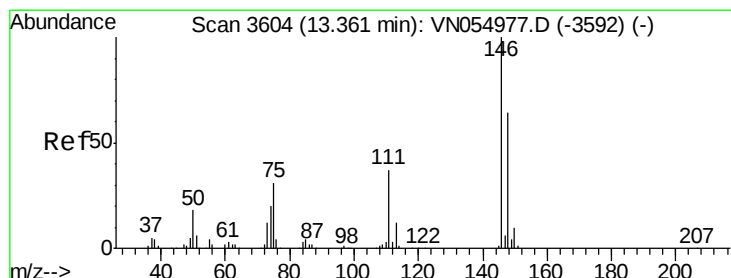
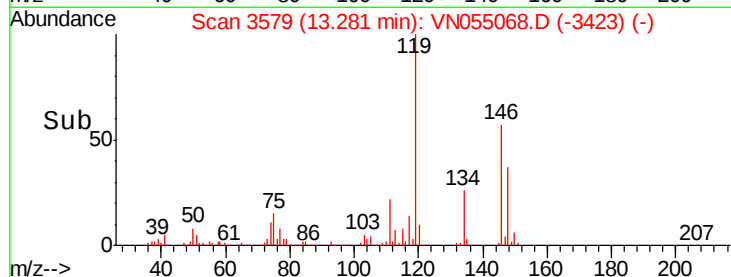
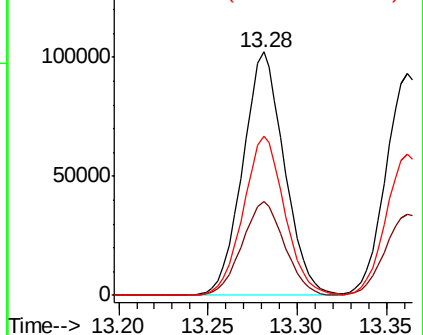
148 65.2 31.9 95.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 20.398 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

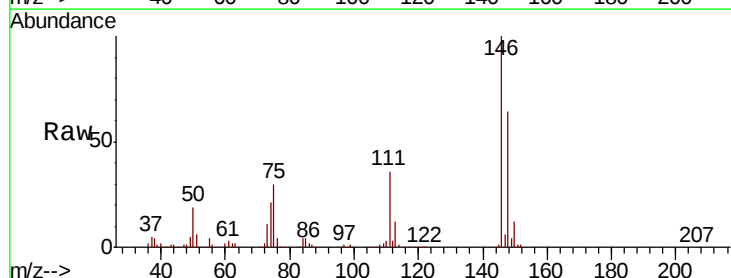
Tgt Ion:146 Resp: 156750

Ion Ratio Lower Upper

146 100

111 36.4 18.4 55.2

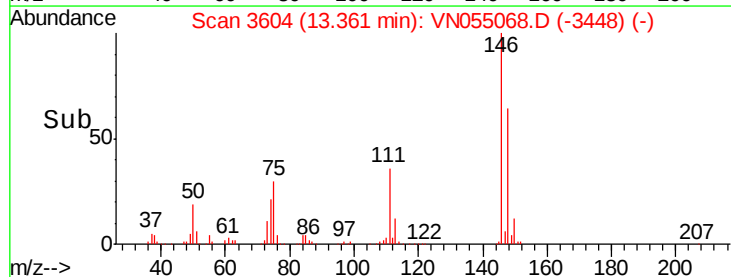
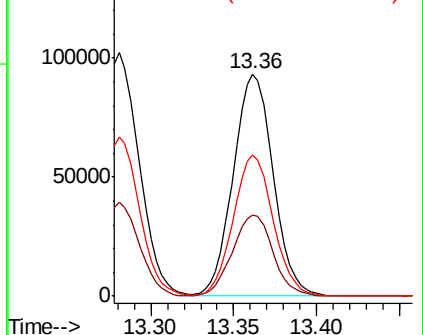
148 63.2 32.5 97.4

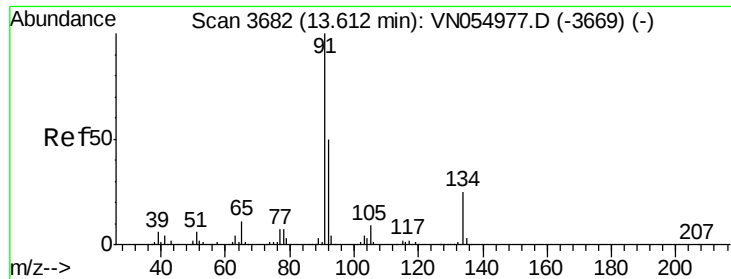


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

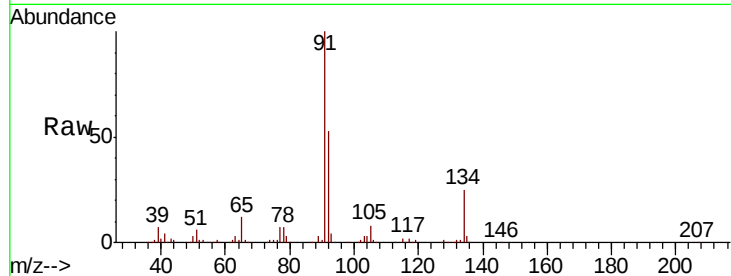




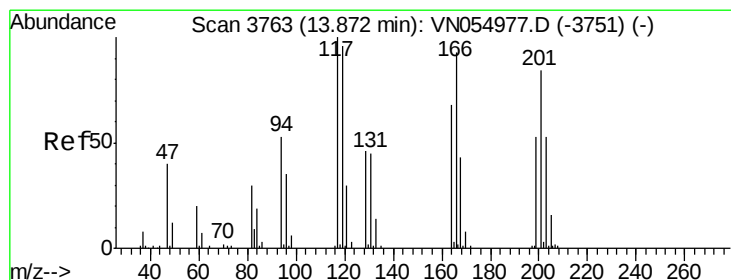
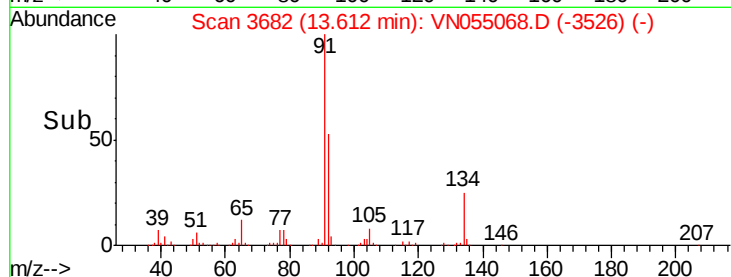
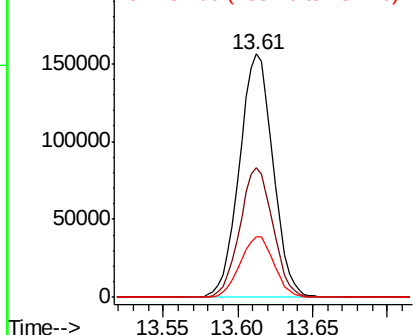
#85
n-Butylbenzene
Concen: 19.024 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 91 Resp: 244481
Ion Ratio Lower Upper
91 100
92 52.5 0.0 101.4
134 25.1 0.0 49.8

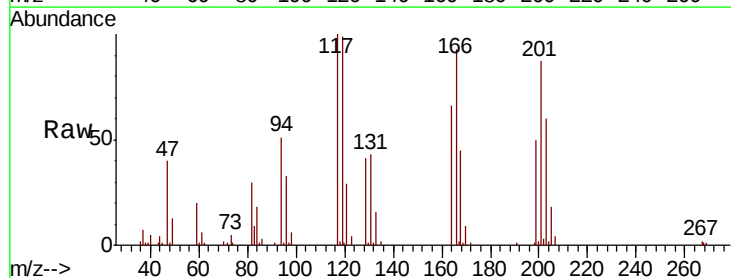


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): VN0

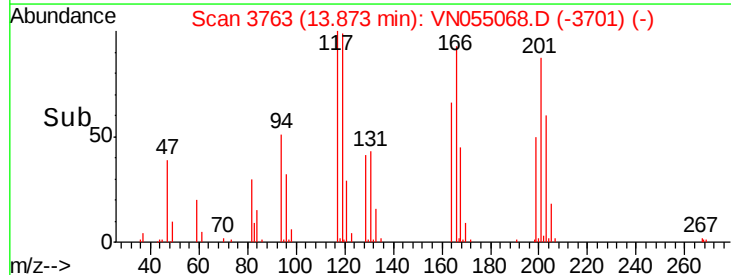
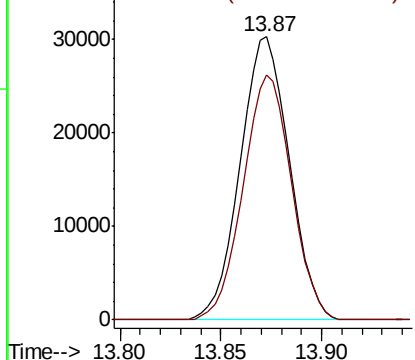


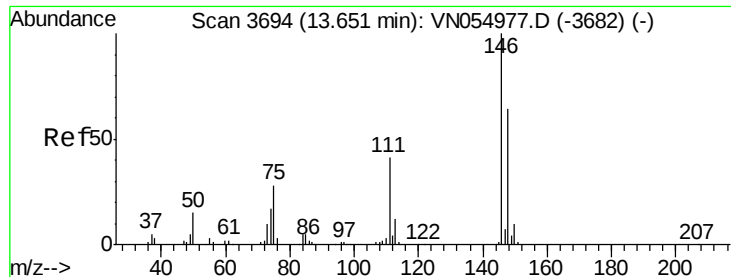
#86
Hexachloroethane
Concen: 20.040 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055068.D
Acq: 16 Apr 2019 10:08

Tgt Ion: 117 Resp: 51755
Ion Ratio Lower Upper
117 100
201 85.0 42.8 128.3



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 201.00 (200.70 to 201.70): V

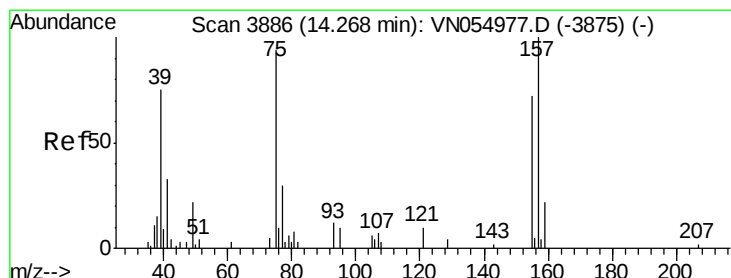
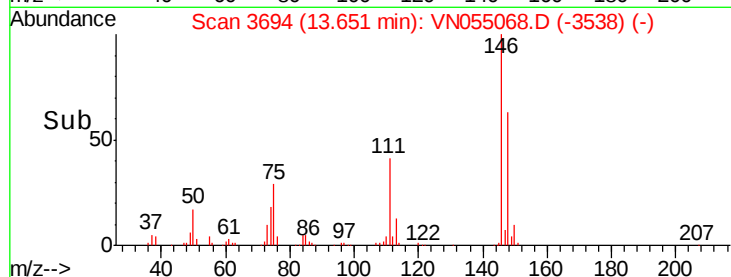
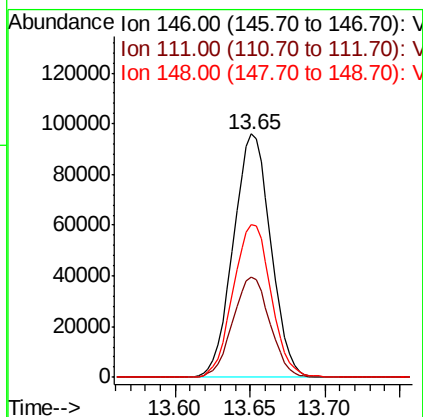
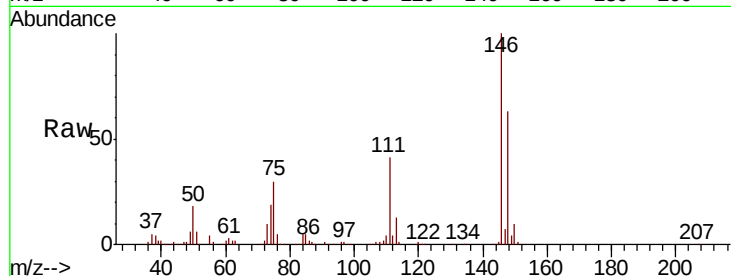




#87
 1,2-Dichlorobenzene
 Concen: 21.106 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

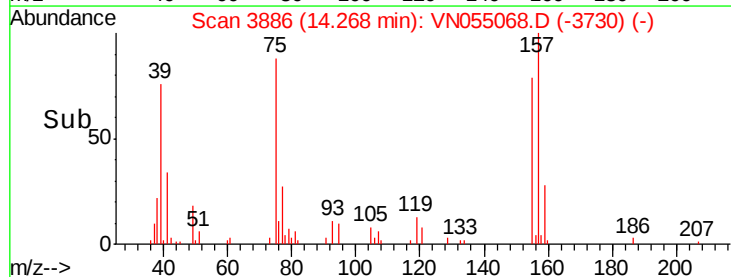
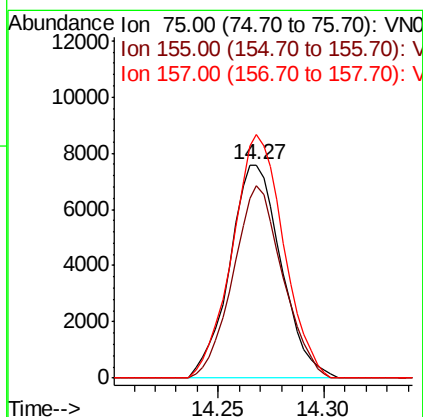
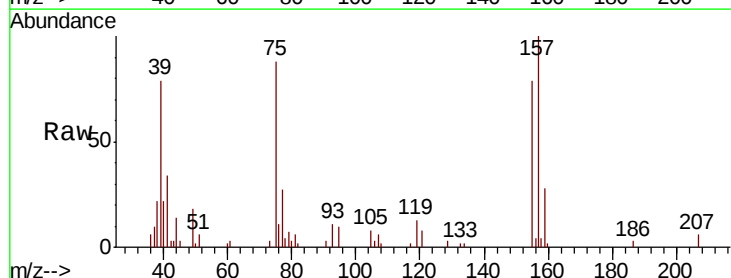
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

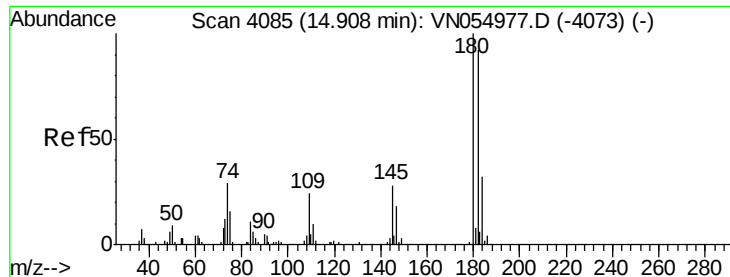
Tot Ion:146 Resp: 167148
 Ion Ratio Lower Upper
 146 100
 111 40.8 20.3 60.8
 148 63.7 32.5 97.5



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 20.709 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion: 75 Resp: 12874
 Ion Ratio Lower Upper
 75 100
 155 86.7 61.8 92.8
 157 113.6 82.7 124.1

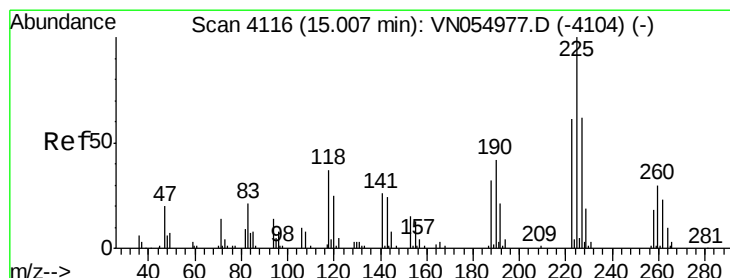
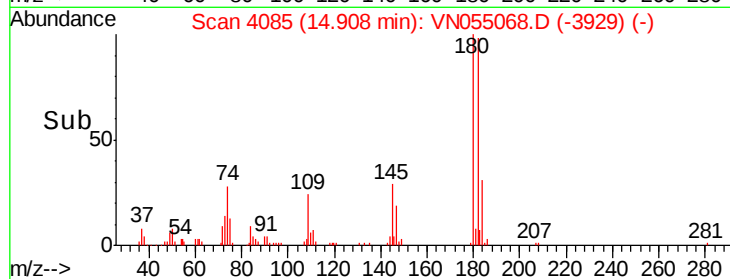
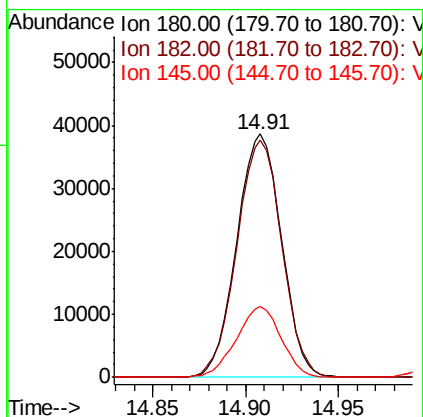
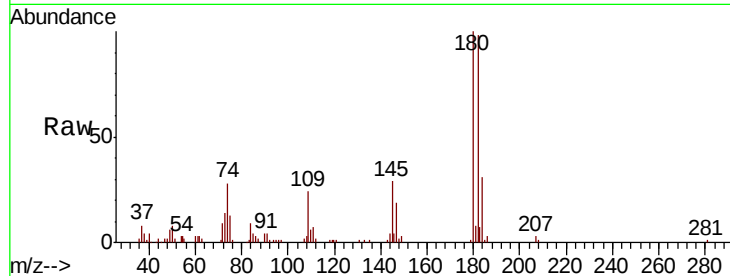




#89
 1,2,4-Trichlorobenzene
 Concen: 18.275 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

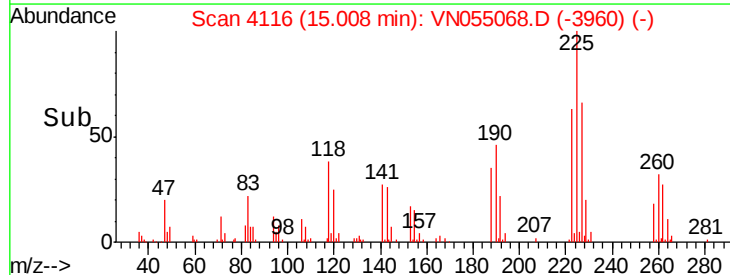
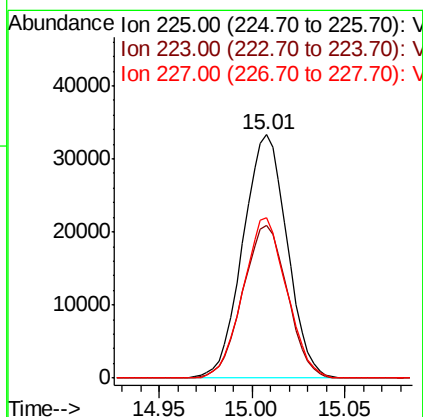
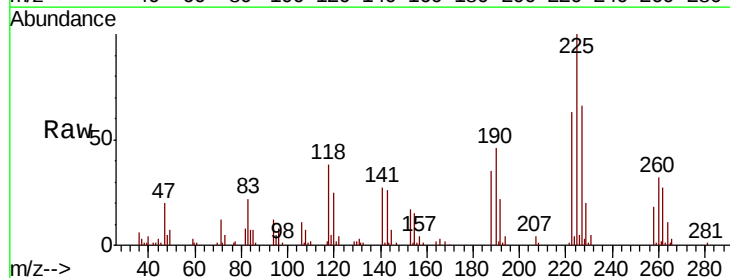
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

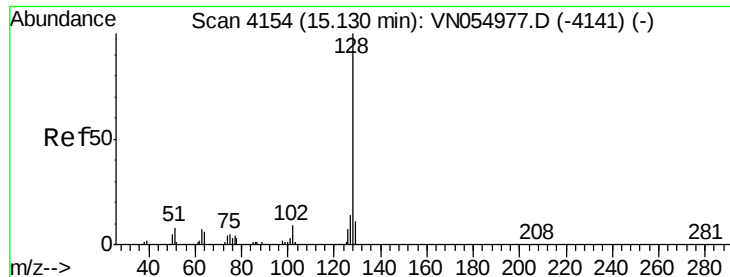
Tot Ion:180 Resp: 64705
 Ion Ratio Lower Upper
 180 100
 182 98.0 73.2 109.8
 145 29.3 23.2 34.8



#90
 Hexachlorobutadiene
 Concen: 21.354 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055068.D
 Acq: 16 Apr 2019 10:08

Tgt Ion:225 Resp: 55125
 Ion Ratio Lower Upper
 225 100
 223 63.3 0.0 126.0
 227 65.1 0.0 125.4





#91

Naphthalene

Concen: 19.016 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

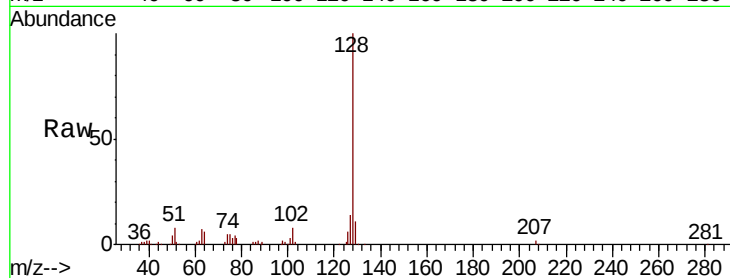
Tot Ion:128 Resp: 140981

Ion Ratio Lower Upper

128 100

127 13.5 10.6 15.8

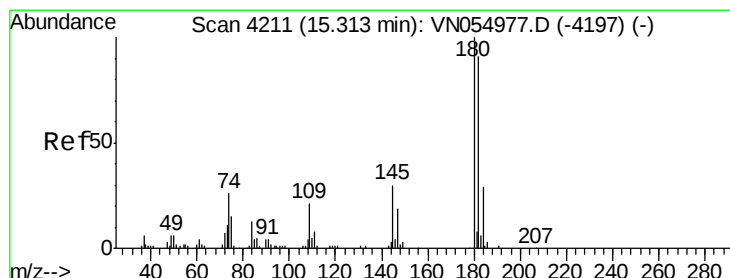
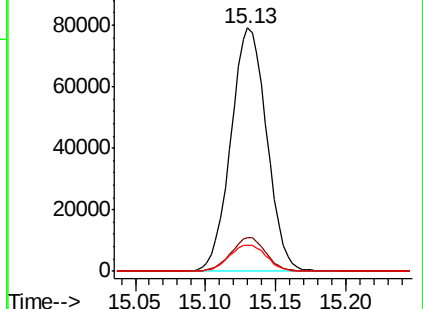
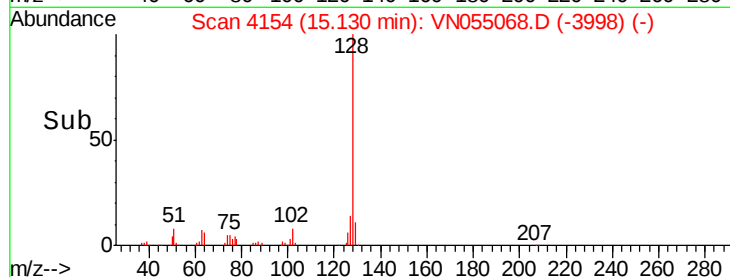
129 11.1 9.0 13.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 19.924 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055068.D

Acq: 16 Apr 2019 10:08

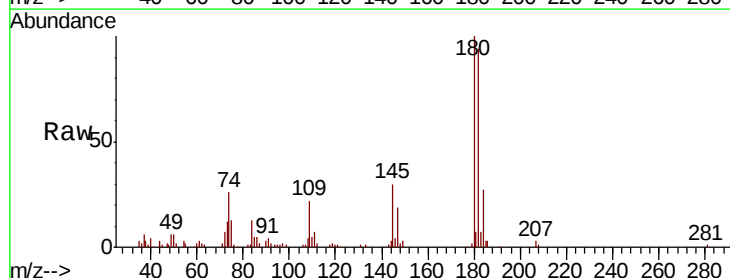
Tgt Ion:180 Resp: 70552

Ion Ratio Lower Upper

180 100

182 96.2 0.0 188.2

145 30.1 0.0 61.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

