

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092818\
 Data File : VN051611.D
 Acq On : 28 Sep 2018 9:53
 Operator : MD\SY
 Sample : VSTDICC150
 Misc : Sample
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 29 00:37:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	111956	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	618614	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	560653	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	230579	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	12.40	95	276681	32.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.97%
63) Toluene-d8	10.09	98	767802	29.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.73%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	1532543	155.981	ug/l 99
3) Chloromethane	2.06	50	1677990	152.616	ug/l 100
4) Vinyl Chloride	2.18	62	1627410	150.882	ug/l 98
5) Bromomethane	2.55	94	880994	157.248	ug/l 99
6) Chloroethane	2.70	64	793671	146.680	ug/l 98
7) Trichlorofluoromethane	3.01	101	1999415	151.721	ug/l 99
8) Diethyl Ether	3.41	74	646936	156.294	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1102324	147.981	ug/l 97
10) 1,1-Dichloroethene	3.73	96	1031675	152.612	ug/l 98
11) Methyl Iodide	3.95	142	1563153	179.635	ug/l 99
12) Methyl Acetate	4.33	43	860810	144.284	ug/l 95
13) Acrolein	3.61	56	536991	814.685	ug/l 98
14) Acrylonitrile	4.99	53	1904759	797.199	ug/l 99
15) Acetone	3.82	58	449423	717.397	ug/l 94
16) Carbon Disulfide	4.05	76	3285258	150.809	ug/l 99
17) Allyl chloride	4.32	41	1931057	159.686	ug/l 99
18) Methylene Chloride	4.55	84	1135931	146.159	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	1088085	151.628	ug/l 98
20) Diisopropyl ether	5.95	45	3729339	155.456	ug/l 97
21) 1,1-Dichloroethane	5.85	63	2110274	148.421	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	1221393	155.848	ug/l 99
23) tert-Butyl Alcohol	4.79	59	360733	792.254	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	2872593	161.685	ug/l 99
25) Chloroform	7.37	83	2024640	148.930	ug/l 100
26) Cyclohexane	7.65	56	2042526	166.006	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	1651253	156.538	ug/l 99
30) 2-Butanone	6.84	43	2189735	762.719	ug/l 100
31) 2,2-Dichloropropane	6.83	77	1704218	149.692	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	1766988	149.085	ug/l 99
33) Carbon Tetrachloride	7.78	117	1618337	151.921	ug/l 99
34) Benzene	8.04	78	4715192	150.665	ug/l # 91
35) Methacrylonitrile	7.18	41	578216	173.751	ug/l 97
36) 1,2-Dichloroethane	8.13	62	1478697	148.232	ug/l 99
37) Trichloroethene	8.84	130	1214838	151.193	ug/l 99
38) Methylcyclohexane	9.08	83	2034239	167.122	ug/l 96
39) 1,2-Dichloropropane	9.12	63	1287911	150.186	ug/l 99
40) Dibromomethane	9.21	93	715248	150.147	ug/l 98

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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	1575075	151.475	ug/l	100
42) Vinyl Acetate	5.90	43	12995453	813.077	ug/l	99
43) Ethyl Acetate	6.93	43	970925	159.773	ug/l	100
44) Isopropyl Acetate	8.17	43	1823073	153.216	ug/l	98
45) 1,4-Dioxane	9.20	88	212696	3308.894	ug/l	98
46) Methyl methacrylate	9.20	41	924864	167.089	ug/l	96
47) n-amyl Acetate	12.07	43	1695006	190.390	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	1707750	164.551	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1948789	160.611	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	995313	147.849	ug/l	99
51) Ethyl methacrylate	10.43	69	1420329	173.893	ug/l	98
52) 1,3-Dichloropropane	10.71	76	1767052	153.090	ug/l	99
53) Dibromochloromethane	10.90	129	1191608	155.415	ug/l	100
54) 1,2-Dibromoethane	11.01	107	1020754	158.022	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	3460310	857.109	ug/l	100
56) Bromoform	12.13	173	825654	162.288	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	4903262	770.293	ug/l	100
59) 2-Hexanone	10.75	43	3348911	799.713	ug/l	97
61) Tetrachloroethene	10.63	164	1123869	141.586	ug/l	99
62) Toluene	10.16	91	5087703	147.995	ug/l	99
64) Chlorobenzene	11.43	112	3170493	152.534	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	1186067	149.437	ug/l	98
66) Ethyl Benzene	11.51	91	5670569	161.169	ug/l	100
67) m/p-Xylenes	11.62	106	4336528	319.802	ug/l	100
68) o-Xylene	11.95	106	2089036	161.387	ug/l	96
69) Styrene	11.96	104	3400897	167.389	ug/l	99
70) Isopropylbenzene	12.25	105	5584261	161.728	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	1247905	149.381	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	1644548	238.932	ug/l	48
73) Bromobenzene	12.53	156	1374175	159.923	ug/l	98
74) n-propylbenzene	12.59	91	6620401	164.702	ug/l	100
75) 2-Chlorotoluene	12.67	91	3800750	158.345	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	4651890	161.234	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	409754	181.143	ug/l	94
78) 4-Chlorotoluene	12.77	91	3914942	165.118	ug/l	99
79) tert-butylbenzene	12.99	119	4099448	164.003	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	4743538	164.606	ug/l	100
81) sec-Butylbenzene	13.17	105	5672678	164.290	ug/l	100
82) p-Isopropyltoluene	13.29	119	5009544	169.752	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	2491472	166.399	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	2406030	170.949	ug/l	100
85) n-Butylbenzene	13.62	91	4438364	183.230	ug/l	98
86) Hexachloroethane	13.88	117	925522	156.801	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	2346175	160.180	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	198770	163.252	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	1469409	214.339	ug/l	98
90) Hexachlorobutadiene	15.01	225	837595	149.865	ug/l	98
91) Naphthalene	15.13	128	2965274	230.321	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	1374529	199.356	ug/l	99

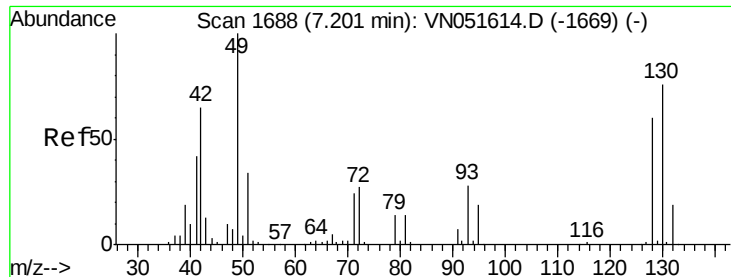
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092818\
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Acq On : 28 Sep 2018 9:53
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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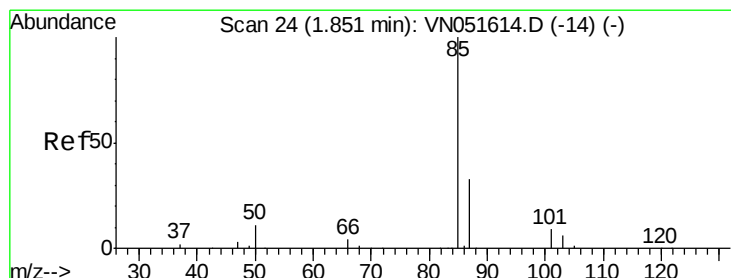
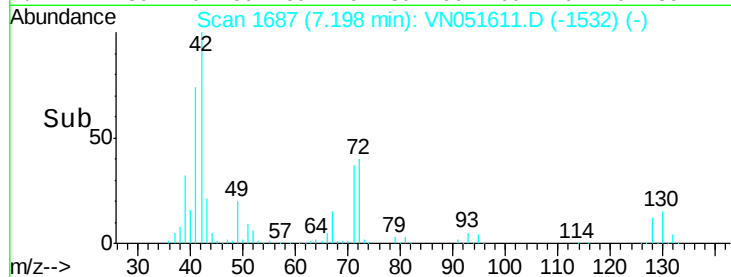
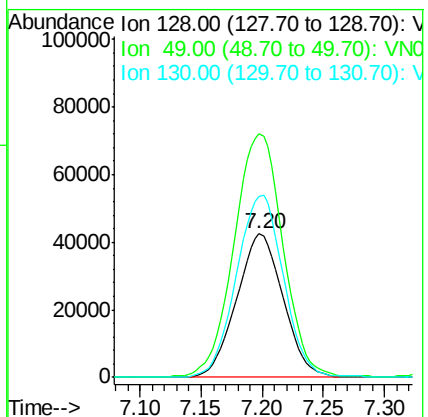
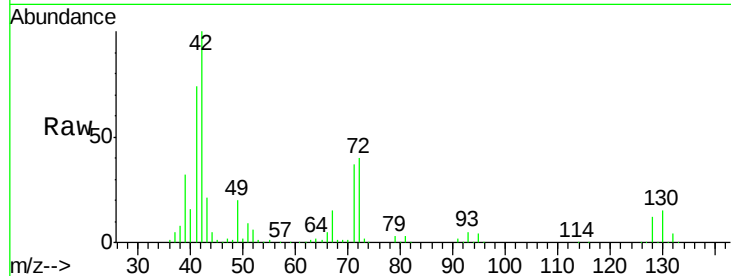
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

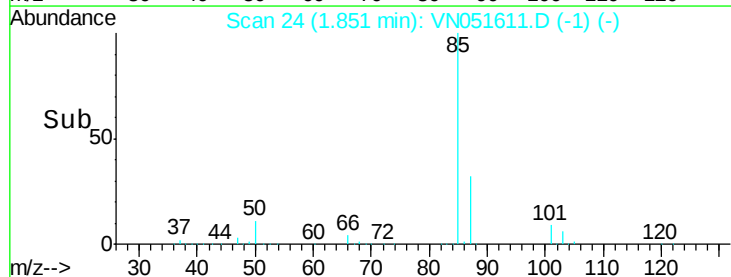
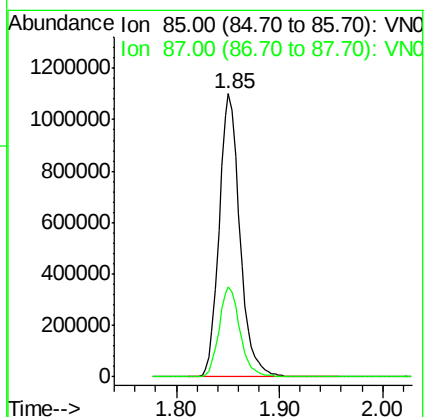
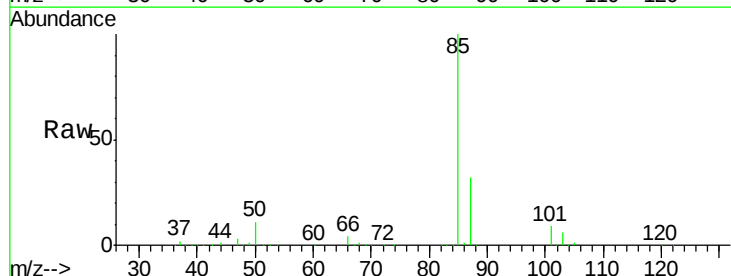
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

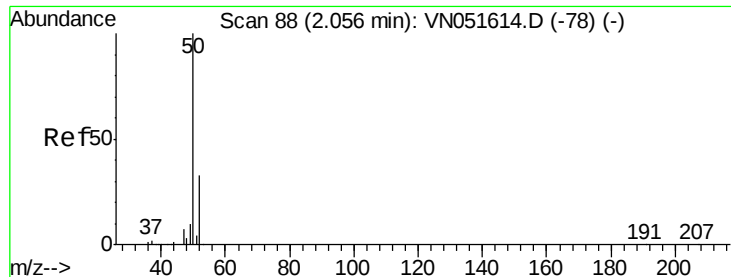
Tgt Ion: 128 Resp: 111956
 Ion Ratio Lower Upper
 128 100
 49 179.0 0.0 426.8
 130 128.3 0.0 326.3



#2
 Dichlorodifluoromethane
 Concen: 155.981 ug/l
 RT: 1.85 min Scan# 24
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 85 Resp: 1532543
 Ion Ratio Lower Upper
 85 100
 87 31.9 16.3 48.8





#3

Chloromethane

Concen: 152.616 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

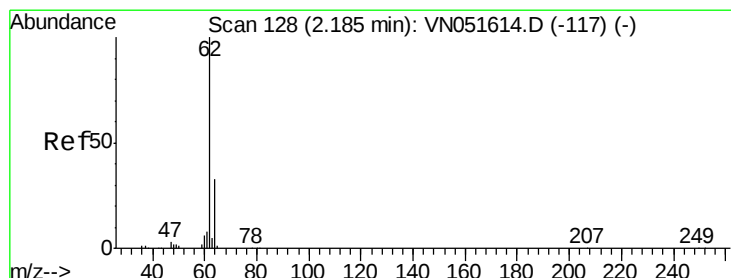
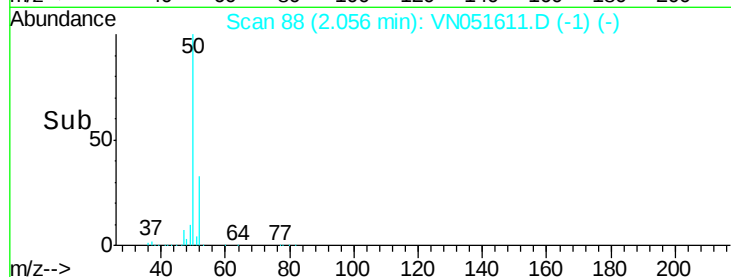
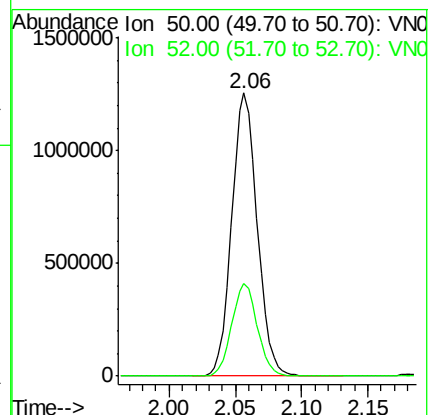
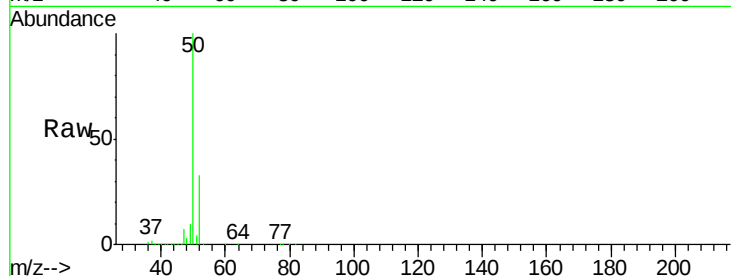
VSTDIC150

Tgt Ion: 50 Resp: 1677990

Ion Ratio Lower Upper

50 100

52 32.6 26.0 39.0



#4

Vinyl Chloride

Concen: 150.882 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051611.D

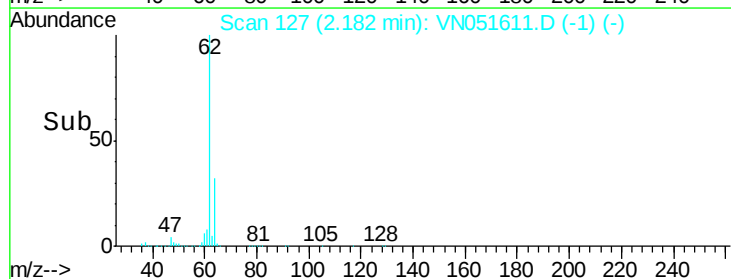
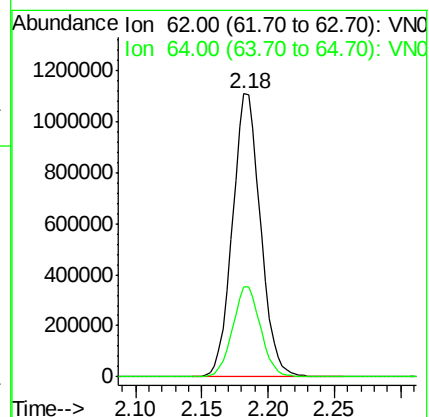
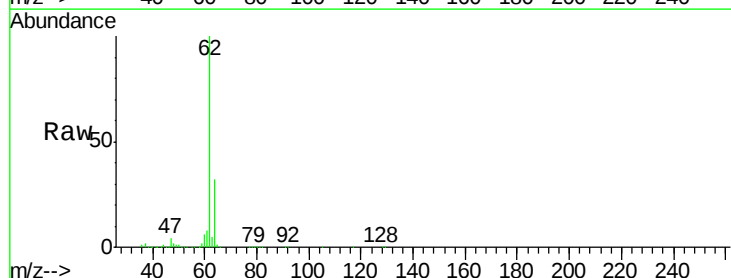
Acq: 28 Sep 2018 9:53

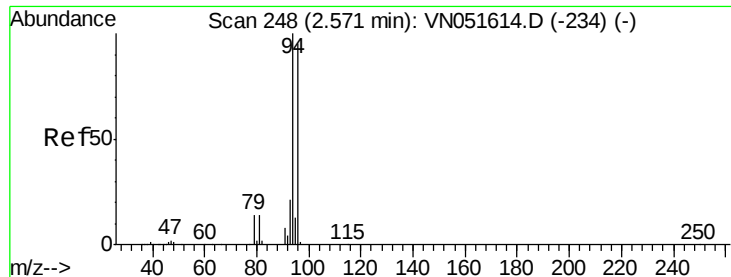
Tgt Ion: 62 Resp: 1627410

Ion Ratio Lower Upper

62 100

64 31.7 26.3 39.5





#5

Bromomethane

Concen: 157.248 ug/l

RT: 2.55 min Scan# 242

Delta R.T. -0.02 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

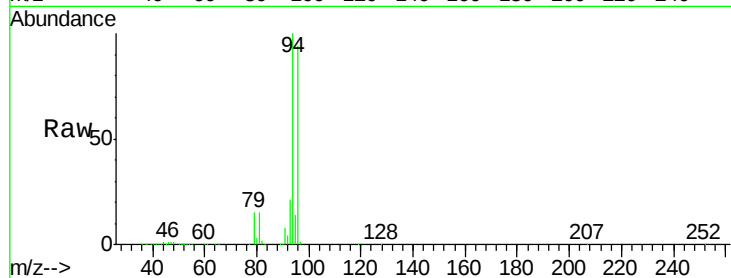
VSTDICC150

Tgt Ion: 94 Resp: 880994

Ion Ratio Lower Upper

94 100

96 93.7 75.8 113.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

2.55

400000

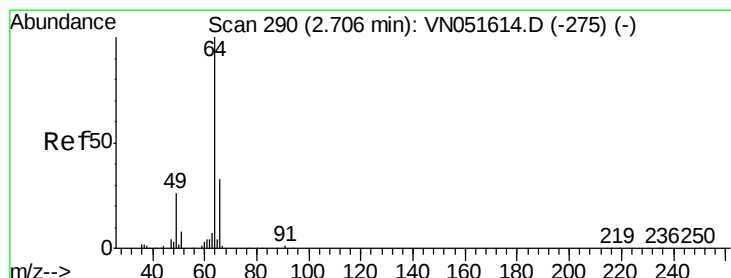
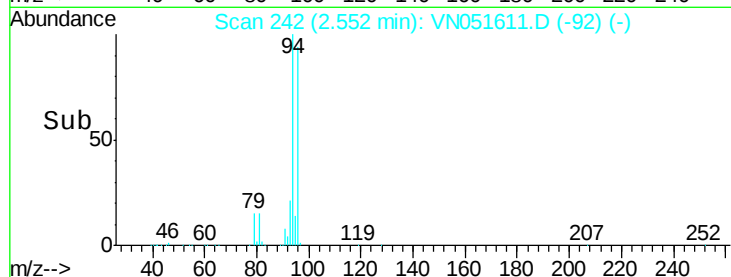
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 146.680 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN051611.D

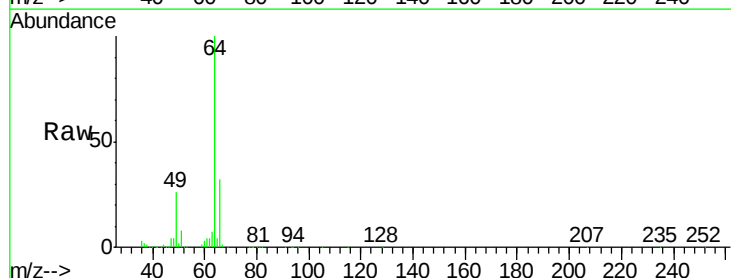
Acq: 28 Sep 2018 9:53

Tgt Ion: 64 Resp: 793671

Ion Ratio Lower Upper

64 100

66 31.7 26.1 39.1



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

2.70

400000

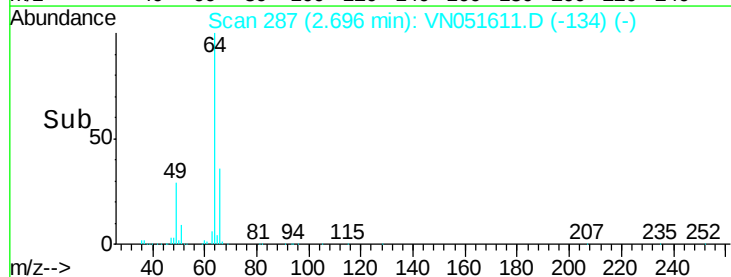
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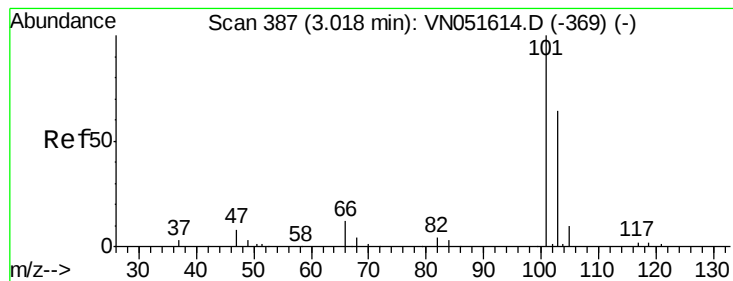
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100000

0

Time-->



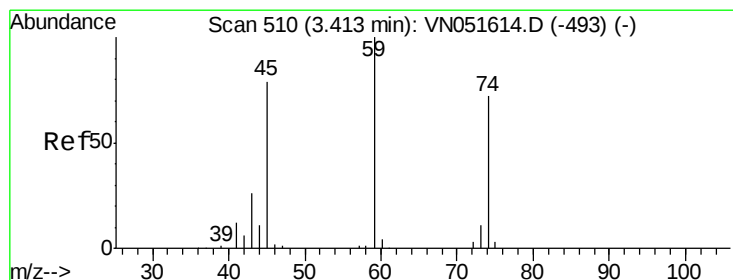
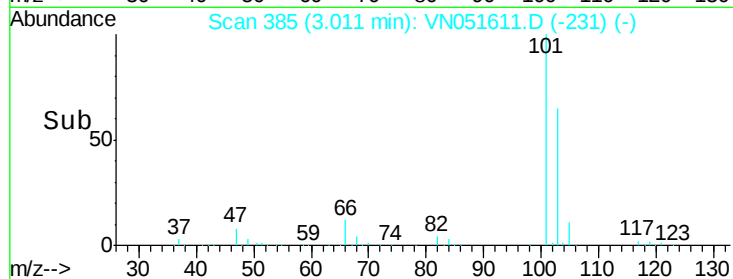
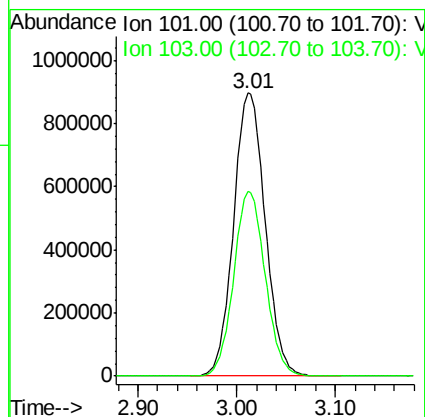
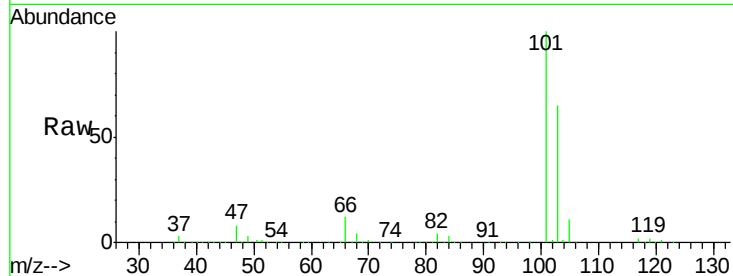


#7

Trichlorofluoromethane
Concen: 151.721 ug/l
RT: 3.01 min Scan# 385
Delta R.T. -0.01 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

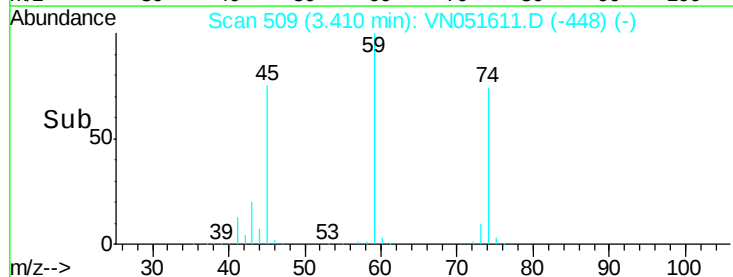
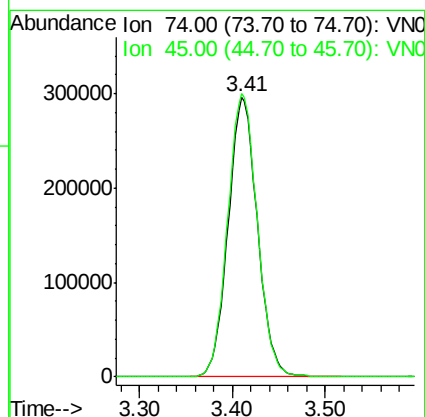
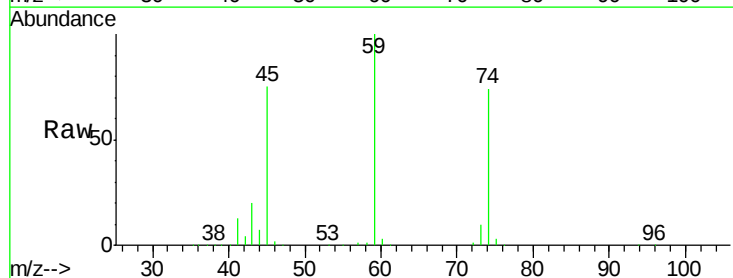
Tgt Ion:101 Resp: 1999415
Ion Ratio Lower Upper
101 100
103 65.1 51.2 76.8

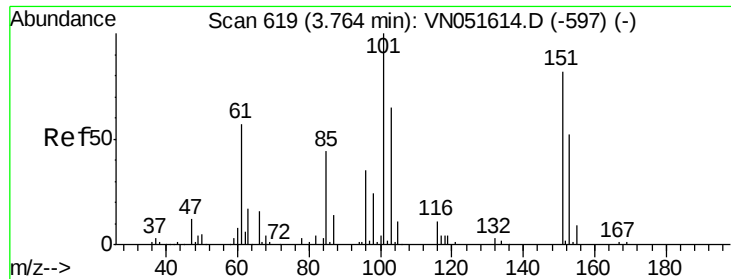


#8

Diethyl Ether
Concen: 156.294 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 74 Resp: 646936
Ion Ratio Lower Upper
74 100
45 102.8 21.3 191.5

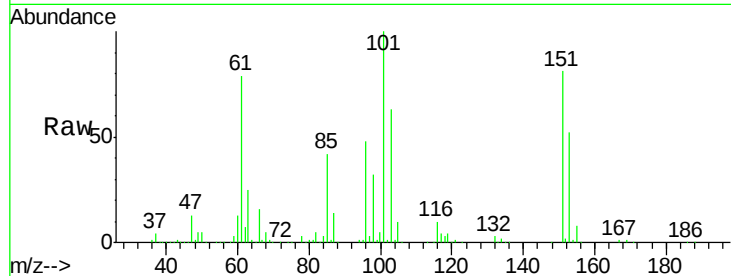




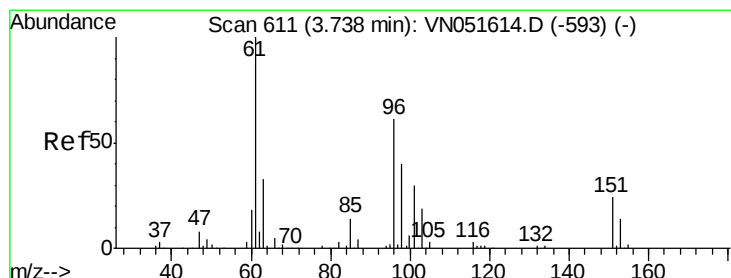
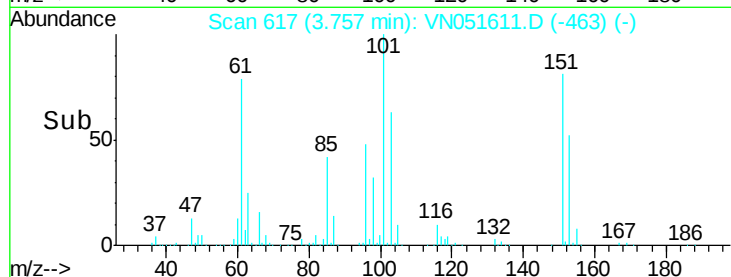
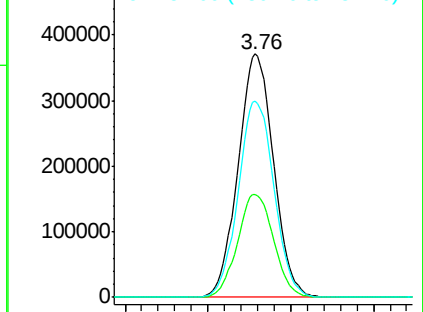
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 147.981 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tgt Ion: 101 Resp: 1102324
 Ion Ratio Lower Upper
 101 100
 85 43.0 0.0 89.4
 151 81.6 0.0 167.6

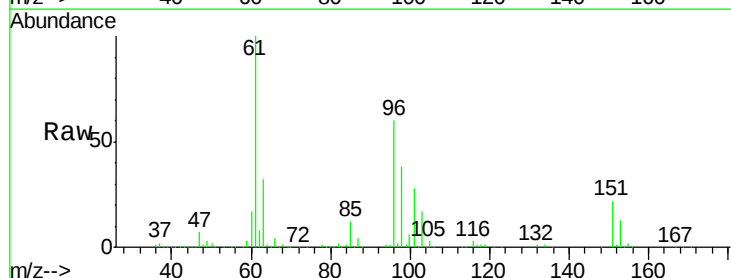


Abundance Ion 101.00 (100.70 to 101.70): V
 Ion 85.00 (84.70 to 85.70): V
 Ion 151.00 (150.70 to 151.70): V

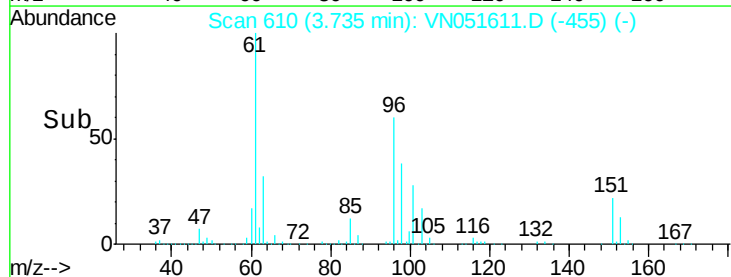
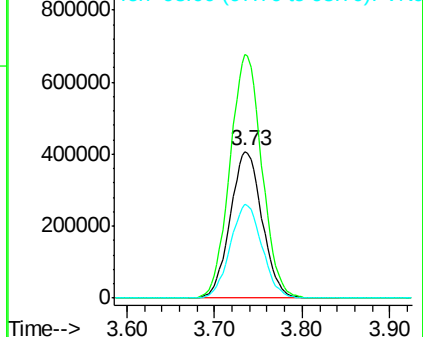


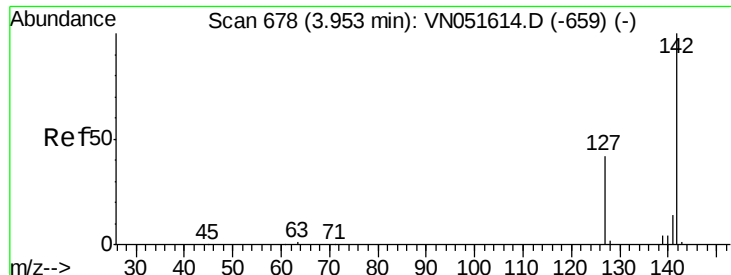
#10
 1,1-Dichloroethene
 Concen: 152.612 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 96 Resp: 1031675
 Ion Ratio Lower Upper
 96 100
 61 165.8 131.0 196.4
 98 63.8 52.7 79.1



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

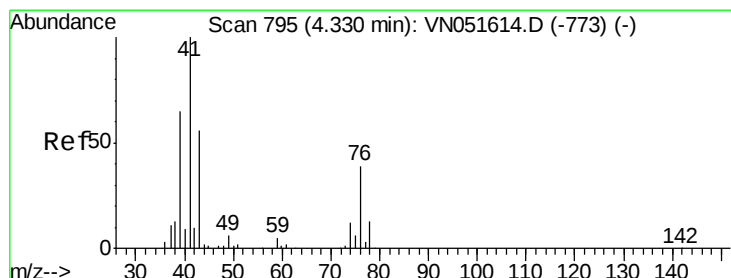
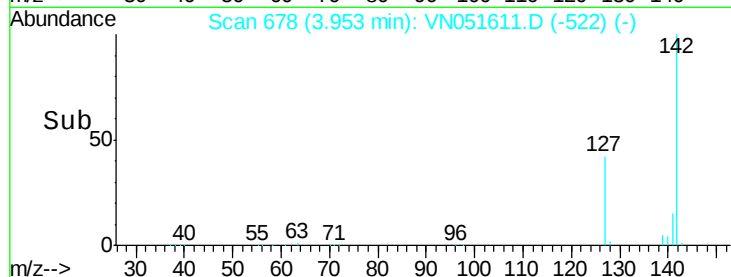
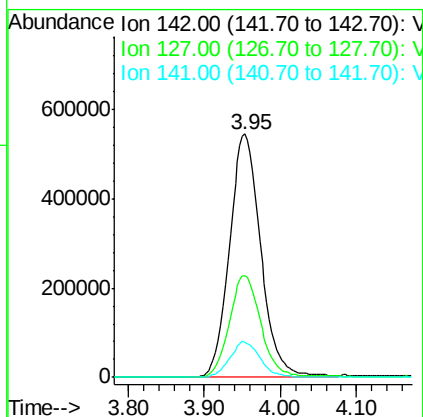
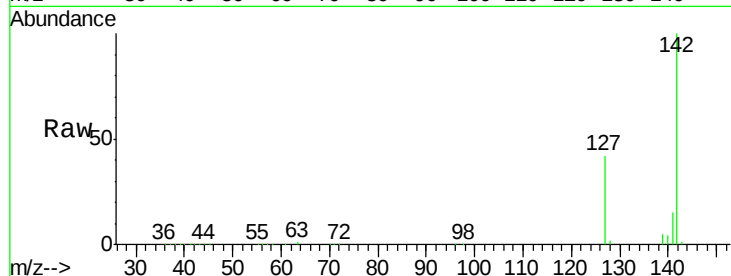




#11
Methyl Iodide
Concen: 179.635 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

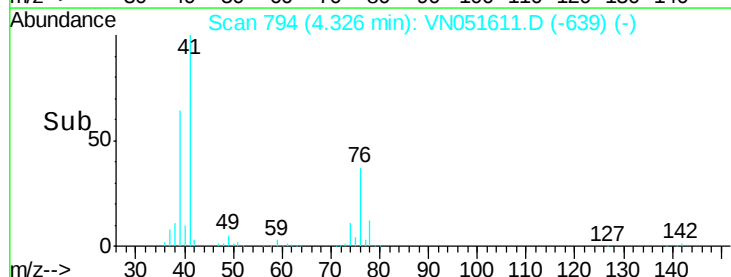
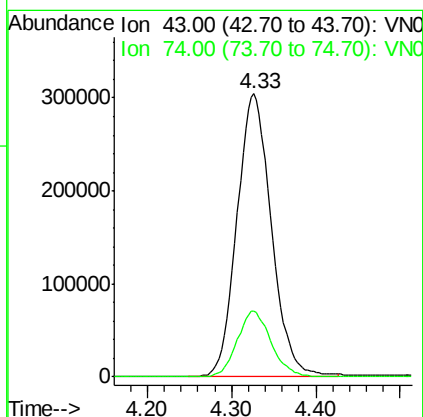
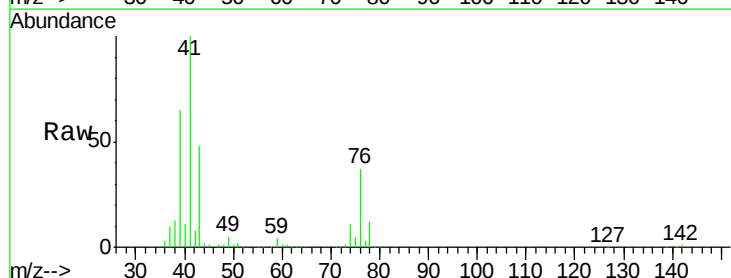
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

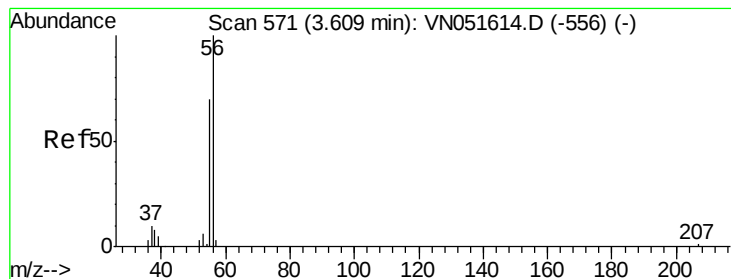
Tgt Ion:142 Resp: 1563153
Ion Ratio Lower Upper
142 100
127 41.8 21.1 63.1
141 14.5 7.1 21.4



#12
Methyl Acetate
Concen: 144.284 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 43 Resp: 860810
Ion Ratio Lower Upper
43 100
74 23.4 17.0 25.4





#13

Acrolein

Concen: 814.685 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

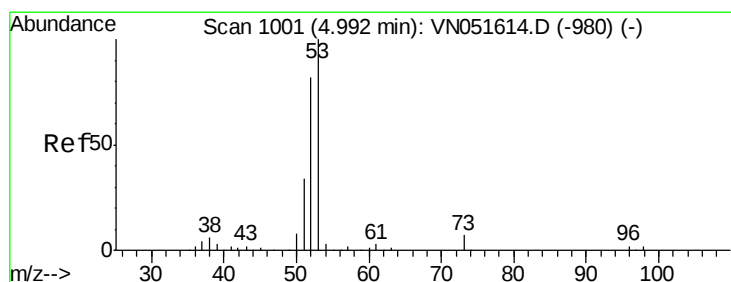
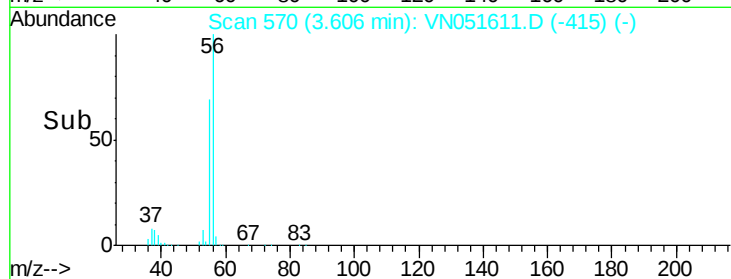
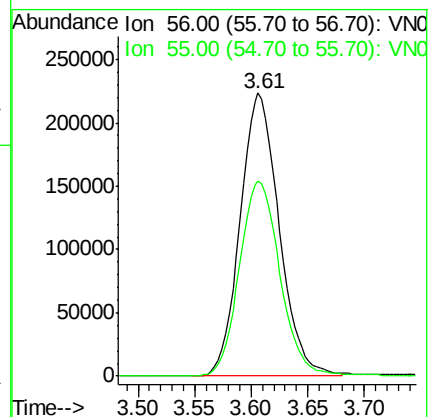
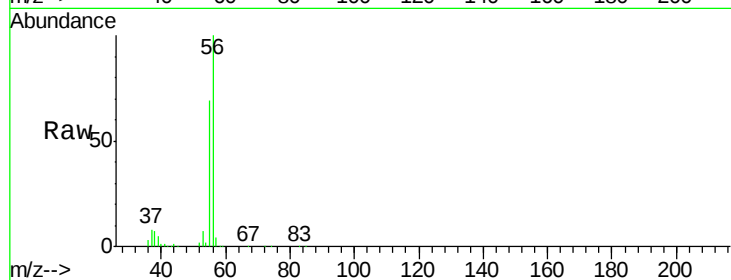
VSTDICC150

Tgt Ion: 56 Resp: 536991

Ion Ratio Lower Upper

56 100

55 71.5 55.8 83.8



#14

Acrylonitrile

Concen: 797.199 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

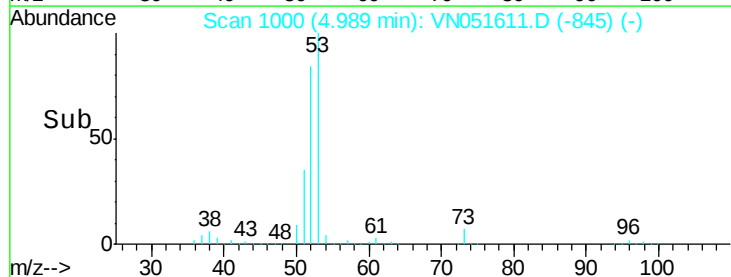
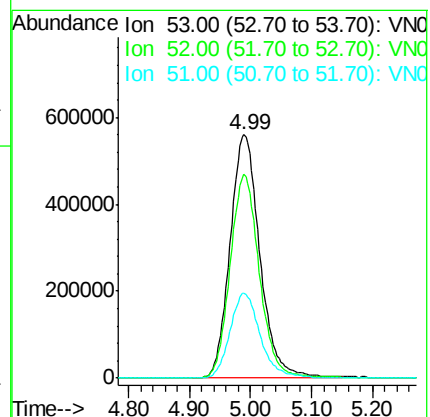
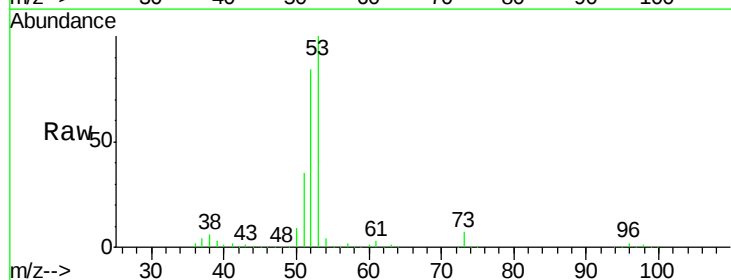
Tgt Ion: 53 Resp: 1904759

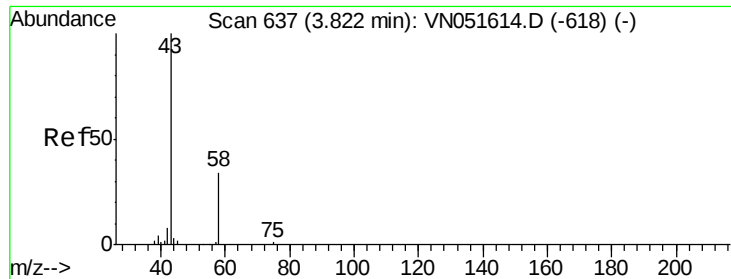
Ion Ratio Lower Upper

53 100

52 82.3 41.3 123.7

51 35.5 17.1 51.2





#15

Acetone

Concen: 717.397 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

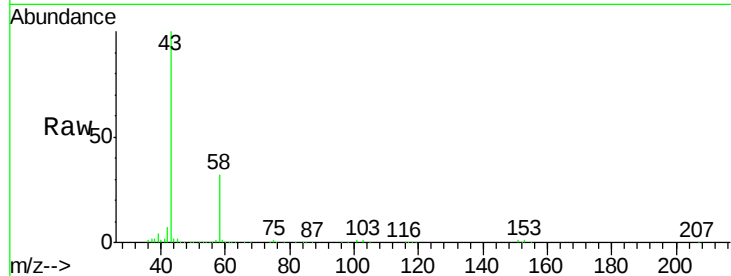
VSTDIC150

Tgt Ion: 58 Resp: 449423

Ion Ratio Lower Upper

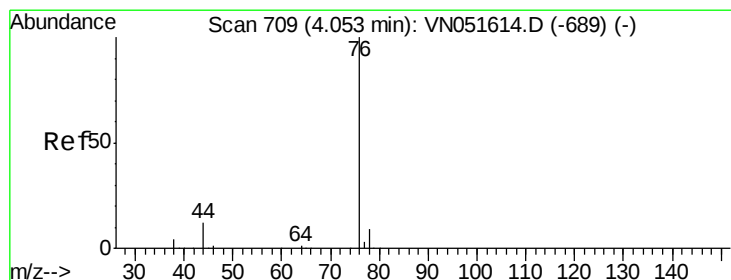
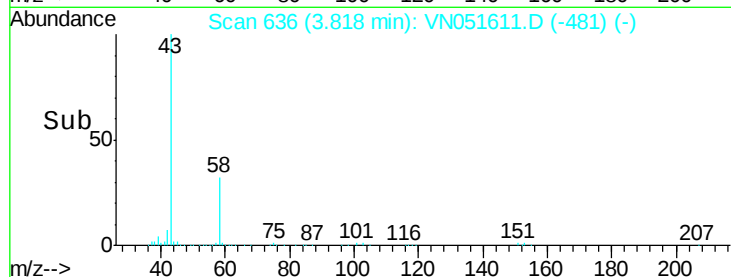
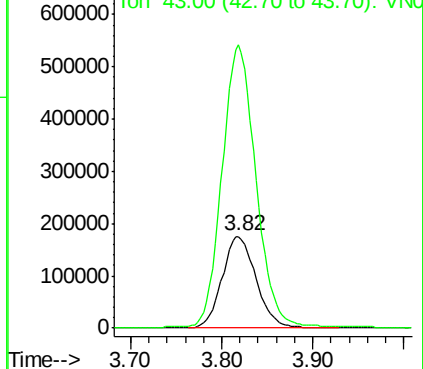
58 100

43 308.8 238.0 357.0



Abundance Ion 58.00 (57.70 to 58.70): VN051611.D (-618) (-)

Ion 43.00 (42.70 to 43.70): VN051611.D (-618) (-)



#16

Carbon Disulfide

Concen: 150.809 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051611.D

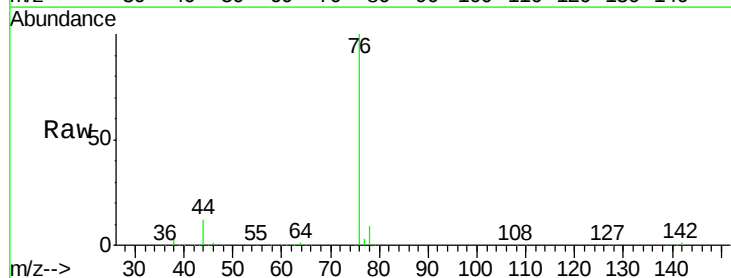
Acq: 28 Sep 2018 9:53

Tgt Ion: 76 Resp: 3285258

Ion Ratio Lower Upper

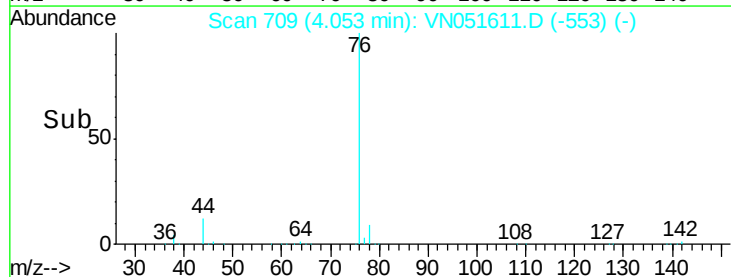
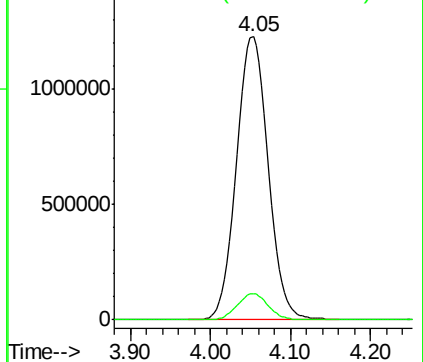
76 100

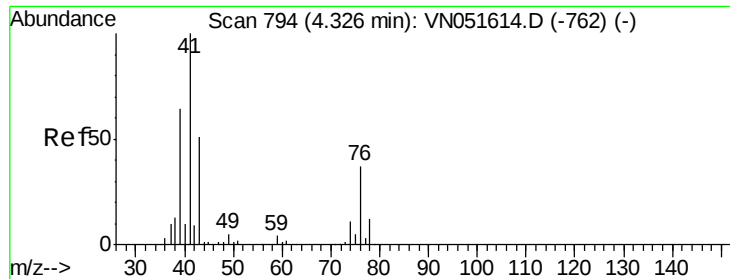
78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN051611.D (-689) (-)

Ion 78.00 (77.70 to 78.70): VN051611.D (-689) (-)

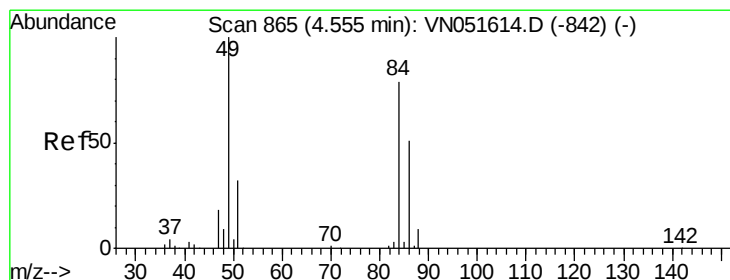
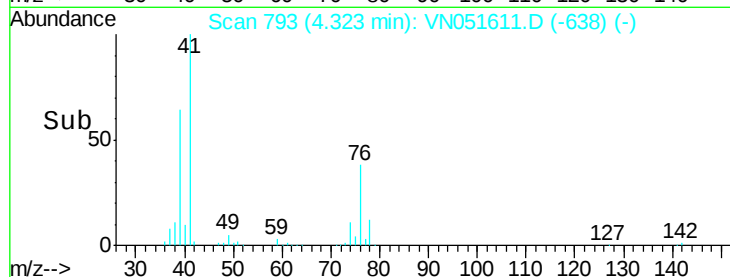
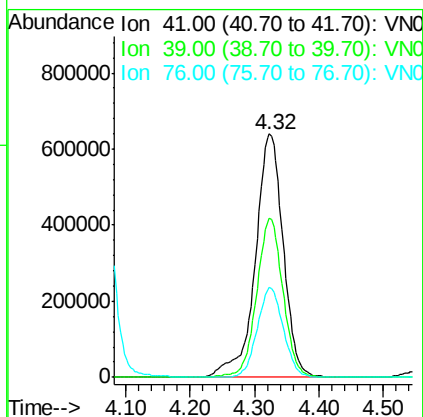
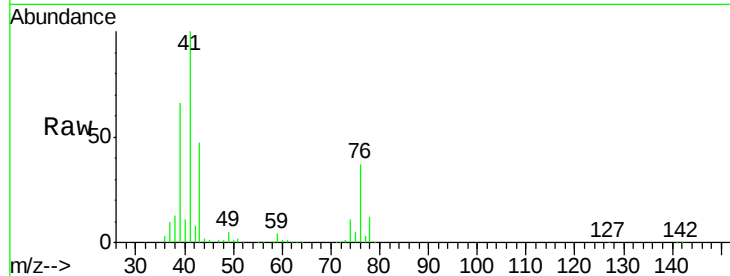




#17
 Allyl chloride
 Concen: 159.686 ug/l
 RT: 4.32 min Scan# 793
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

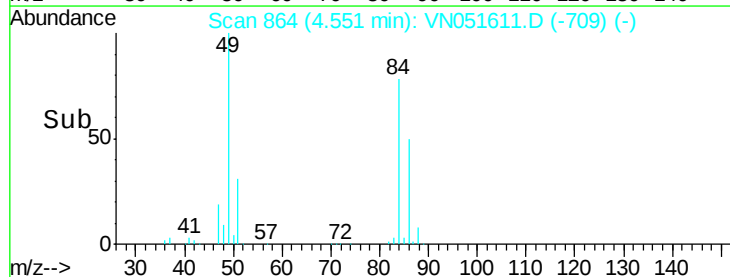
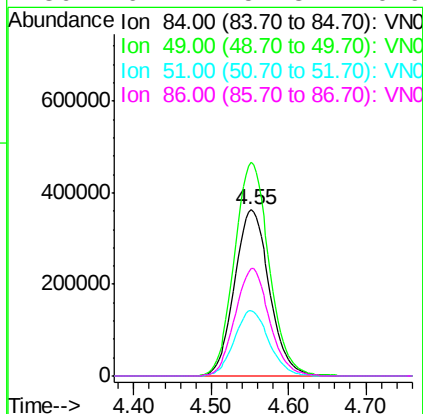
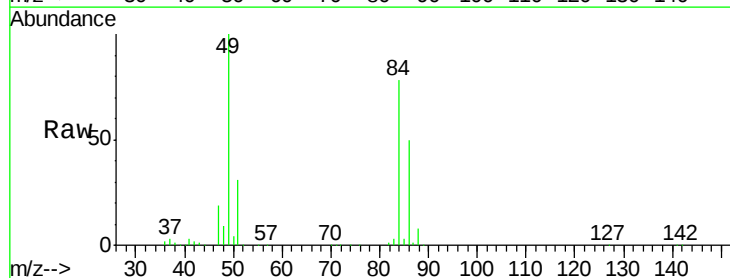
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

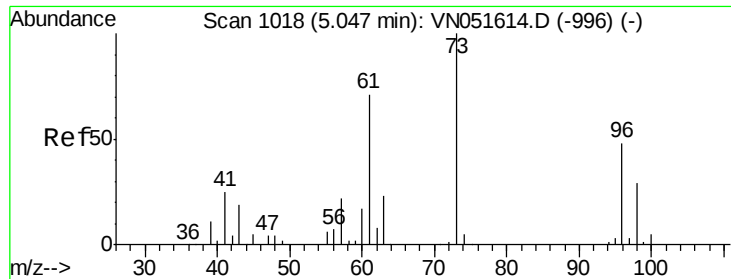
Tgt Ion: 41 Resp: 1931057
 Ion Ratio Lower Upper
 41 100
 39 65.5 31.9 95.9
 76 37.0 18.6 56.0



#18
 Methylene Chloride
 Concen: 146.159 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 84 Resp: 1135931
 Ion Ratio Lower Upper
 84 100
 49 128.7 100.9 151.3
 51 39.6 32.5 48.7
 86 64.7 51.3 76.9

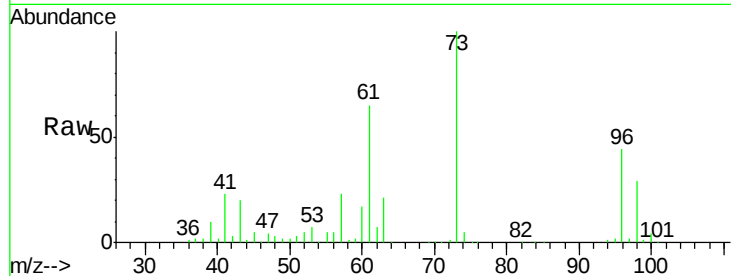




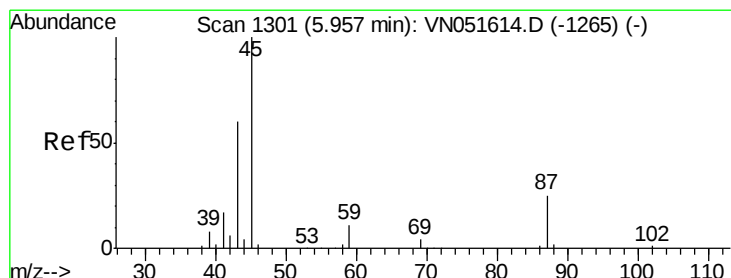
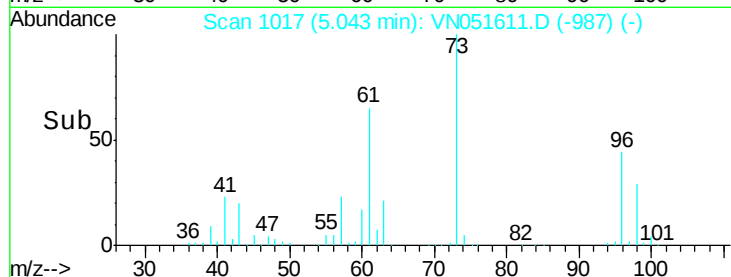
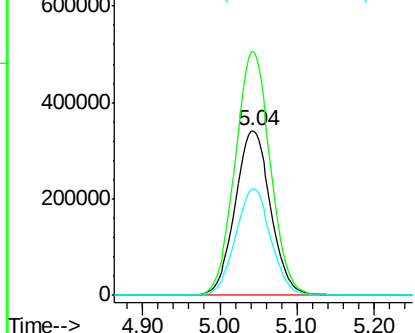
#19
trans-1,2-Dichloroethene
Concen: 151.628 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 96 Resp: 1088085
Ion Ratio Lower Upper
96 100
61 147.8 118.0 177.0
98 64.8 49.0 73.4

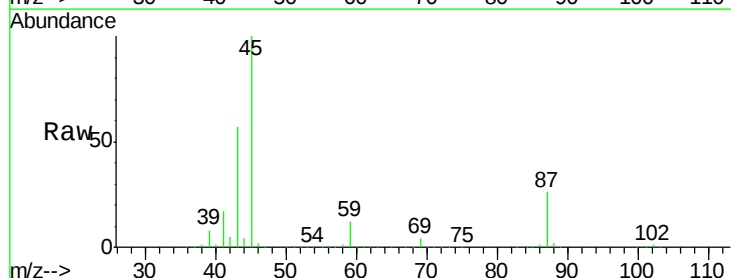


Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

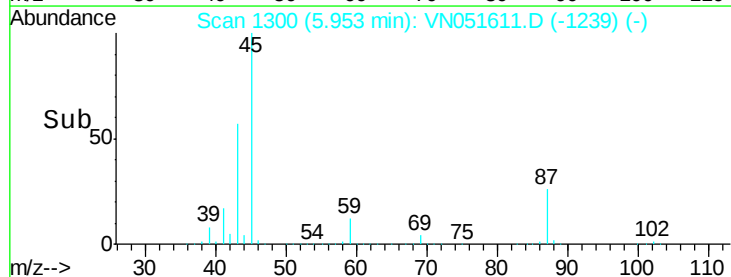
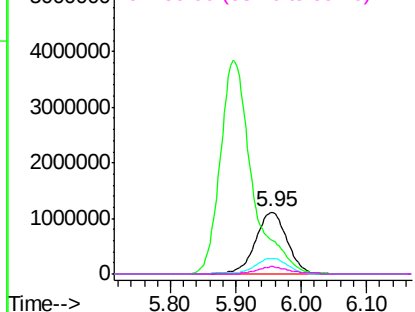


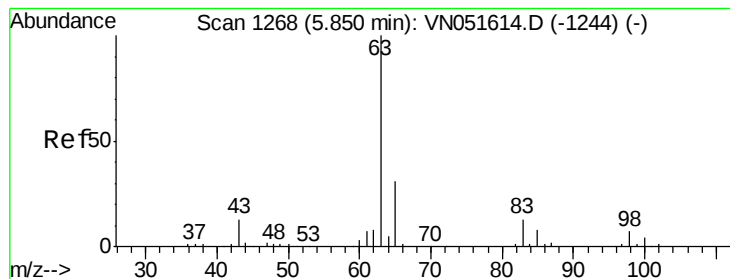
#20
Diisopropyl ether
Concen: 155.456 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 45 Resp: 3729339
Ion Ratio Lower Upper
45 100
43 56.8 48.3 72.5
87 25.9 20.8 31.2
59 11.4 8.8 13.2



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: 148.421 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

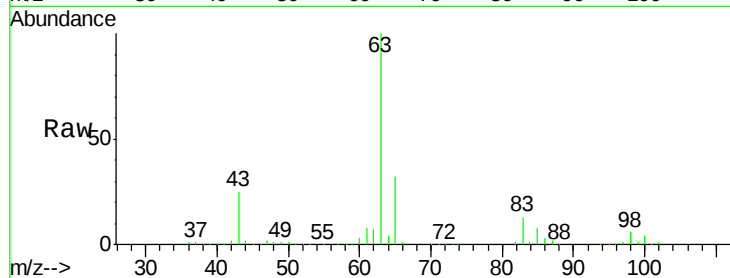
Tgt Ion: 63 Resp: 2110274

Ion Ratio Lower Upper

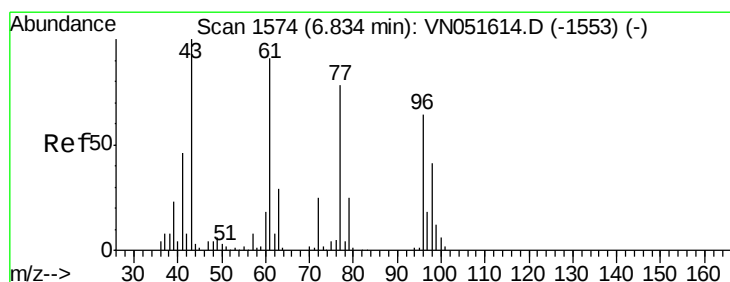
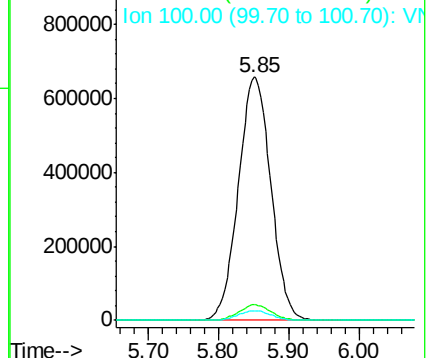
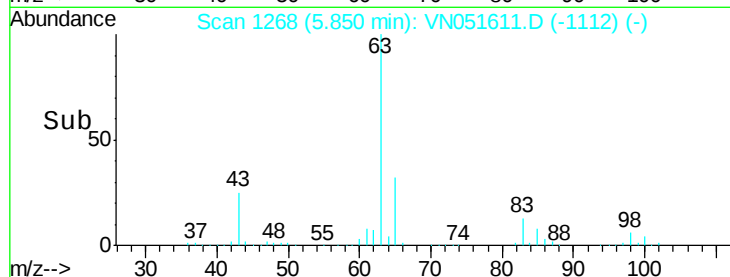
63 100

98 6.5 3.3 9.9

100 3.8 2.0 5.8



Abundance Ion 63.00 (62.70 to 63.70): VN051611.D (-1112) (-)



#22

cis-1,2-Dichloroethene

Concen: 155.848 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

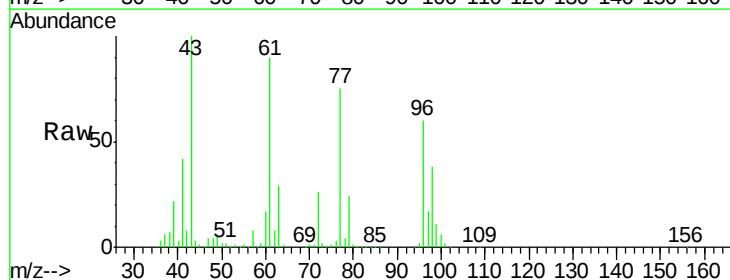
Tgt Ion: 96 Resp: 1221393

Ion Ratio Lower Upper

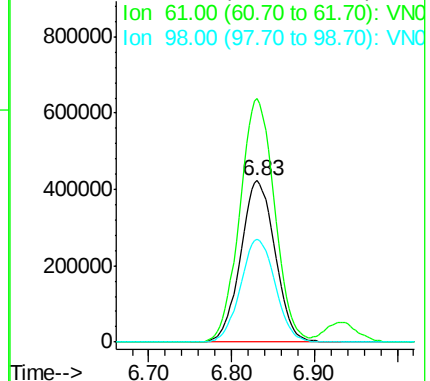
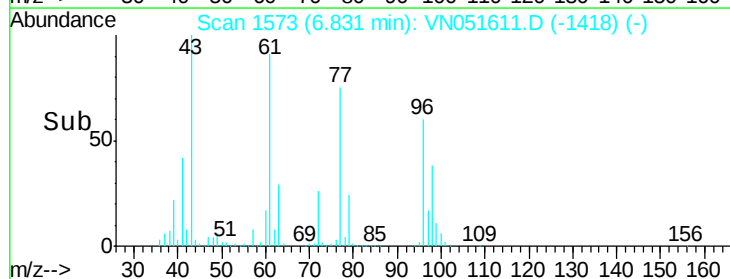
96 100

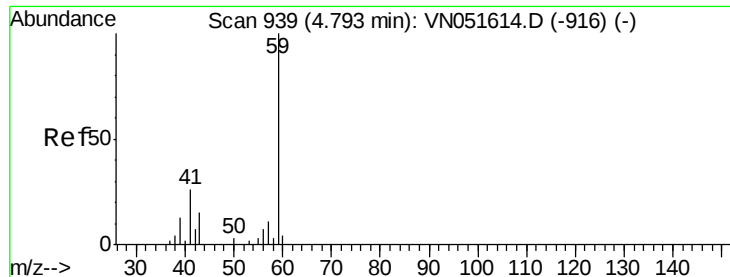
61 152.2 120.4 180.6

98 64.4 51.4 77.0



Abundance Ion 96.00 (95.70 to 96.70): VN051611.D (-1418) (-)



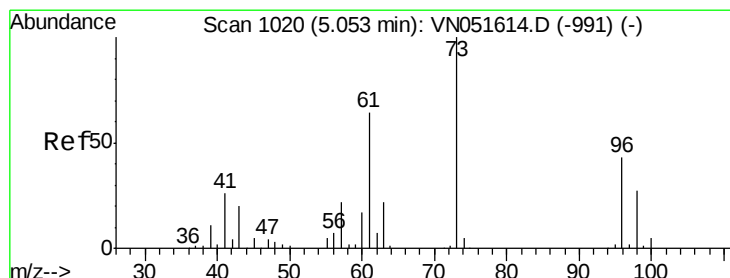
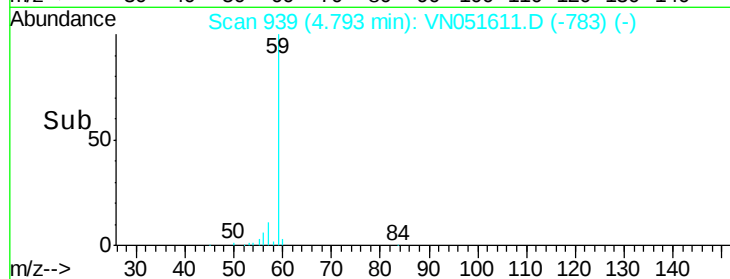
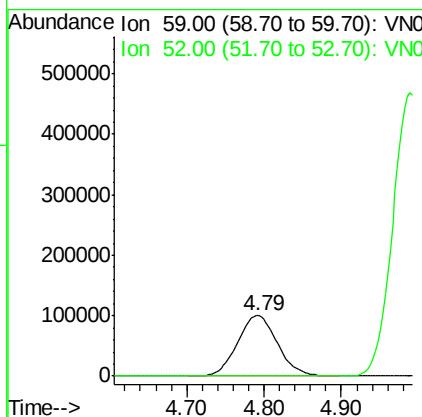
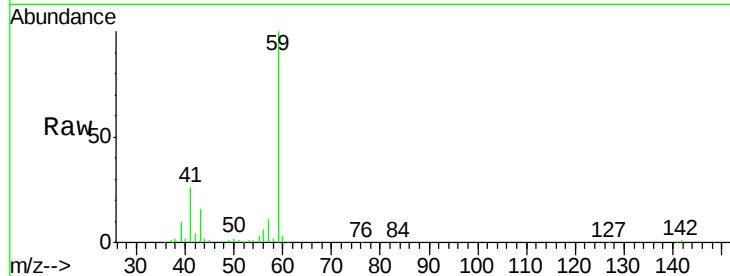


#23

tert-Butyl Alcohol
 Concen: 792.254 ug/l
 RT: 4.79 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

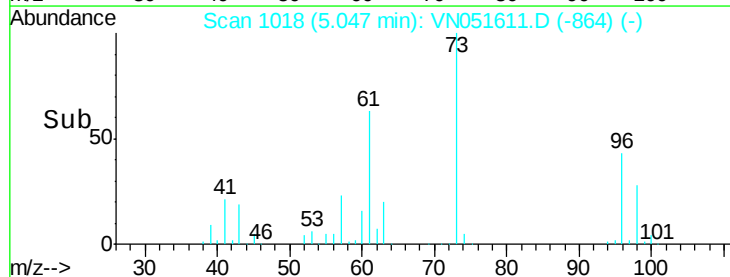
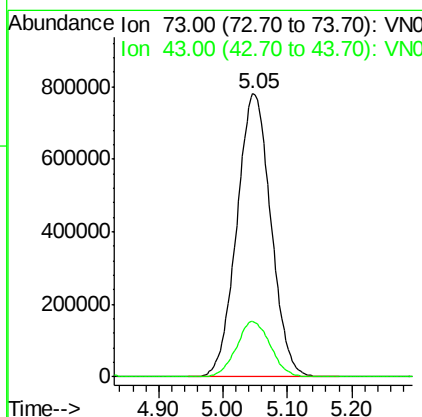
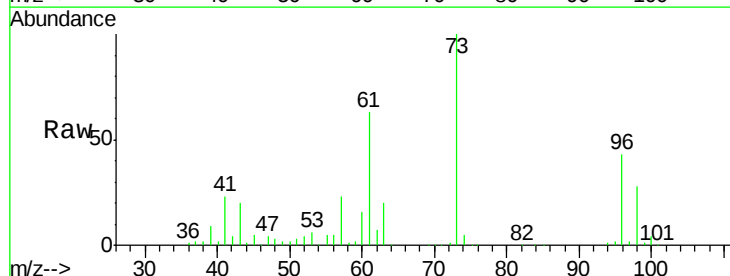
Tgt Ion: 59 Resp: 360733
 Ion Ratio Lower Upper
 59 100
 52 0.1 0.0 0.0#

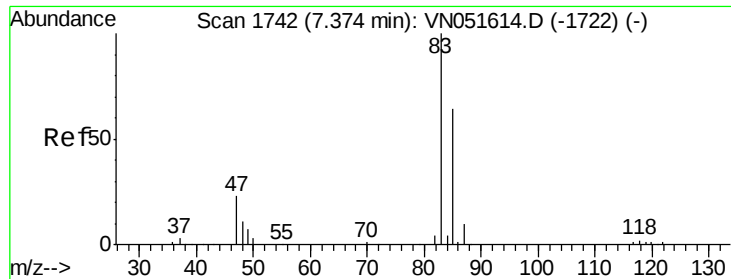


#24

Methyl tert-Butyl Ether
 Concen: 161.685 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 73 Resp: 2872593
 Ion Ratio Lower Upper
 73 100
 43 19.4 16.1 24.1

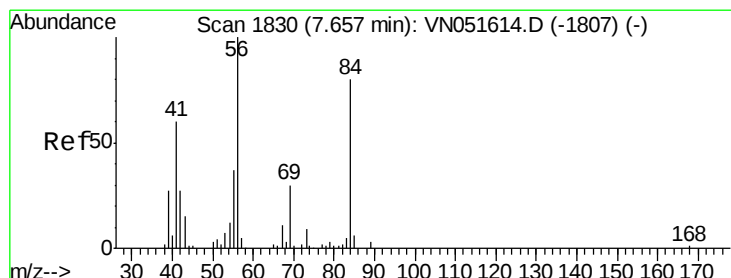
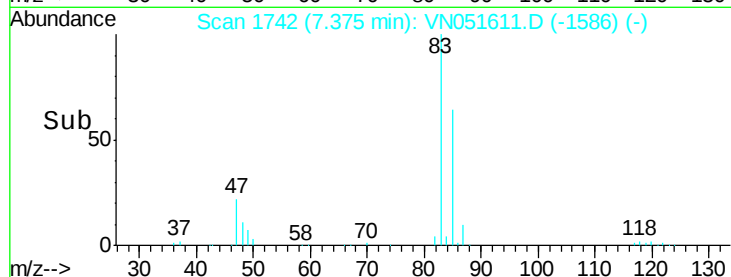
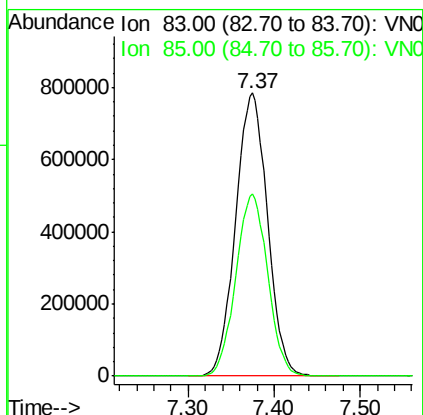
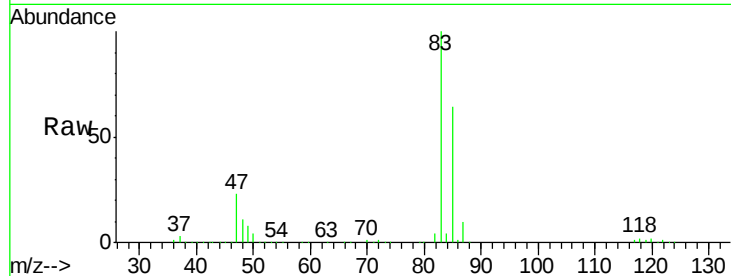




#25
Chloroform
Concen: 148.930 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

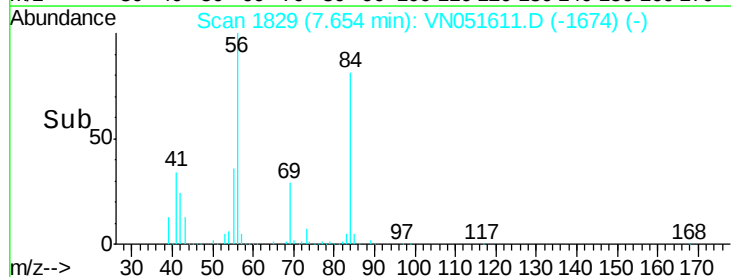
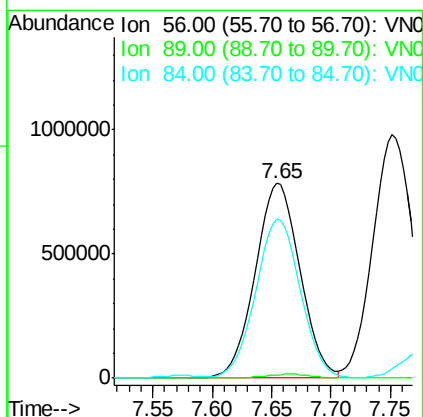
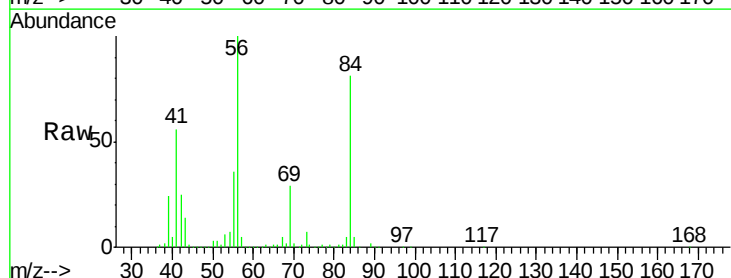
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

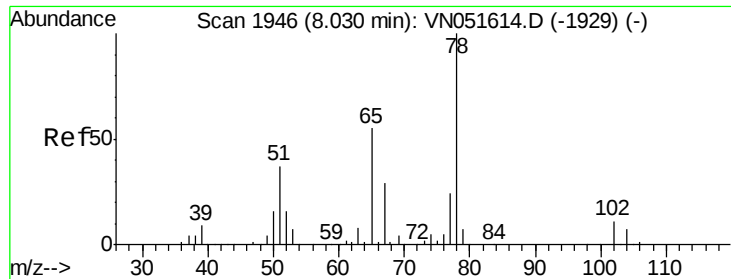
Tgt Ion: 83 Resp: 2024640
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.0



#26
Cyclohexane
Concen: 166.006 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 56 Resp: 2042526
Ion Ratio Lower Upper
56 100
89 2.0 2.2 3.2#
84 81.7 65.0 97.4





#27

1,2-Dichloroethane-d4

Concen: 166.006 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

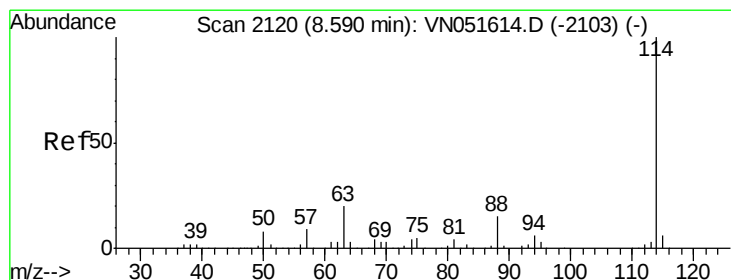
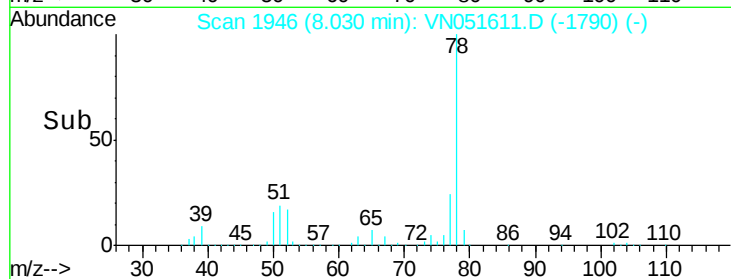
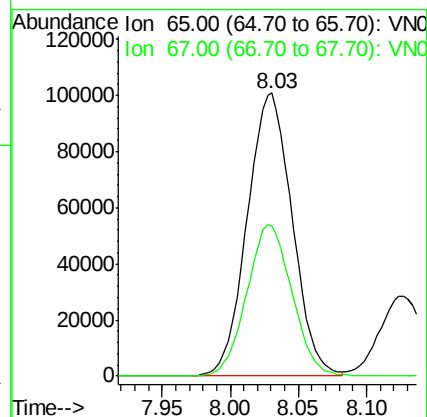
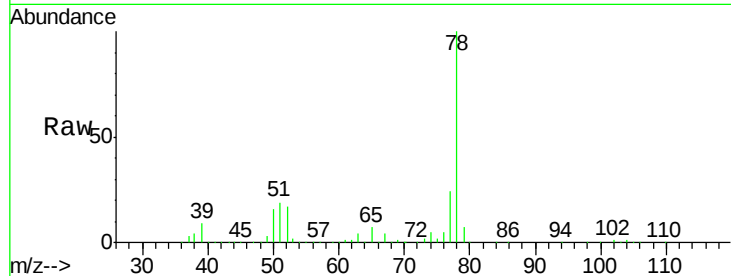
VSTDIC150

Tgt Ion: 65 Resp: 230579

Ion Ratio Lower Upper

65 100

67 53.7 43.1 64.7



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

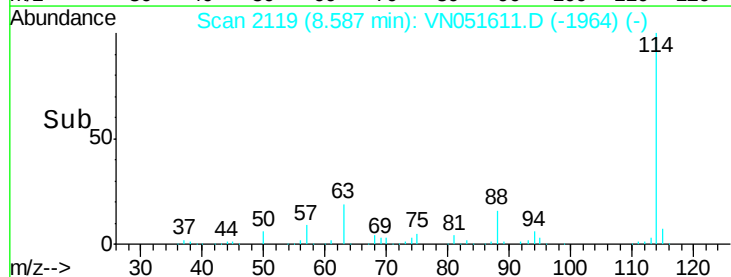
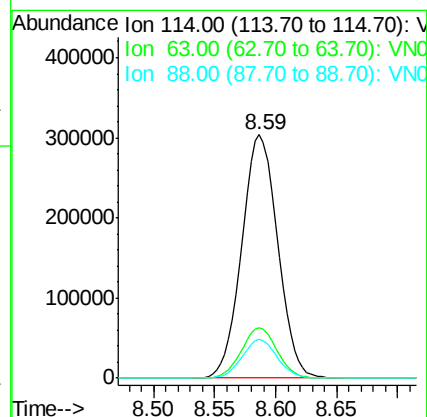
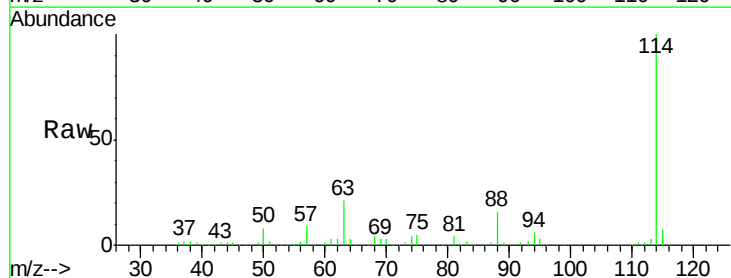
Tgt Ion: 114 Resp: 618614

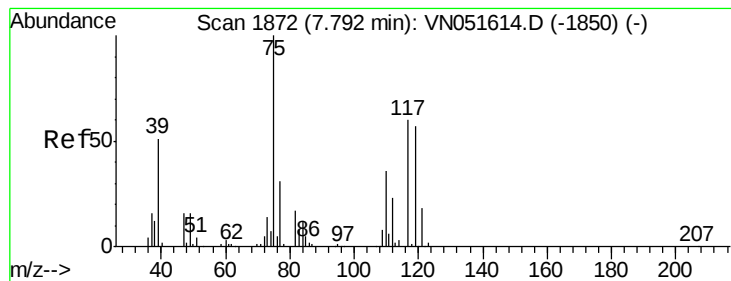
Ion Ratio Lower Upper

114 100

63 20.4 16.4 24.6

88 15.3 12.6 18.8





#29

1,1-Dichloropropene

Concen: 156.538 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

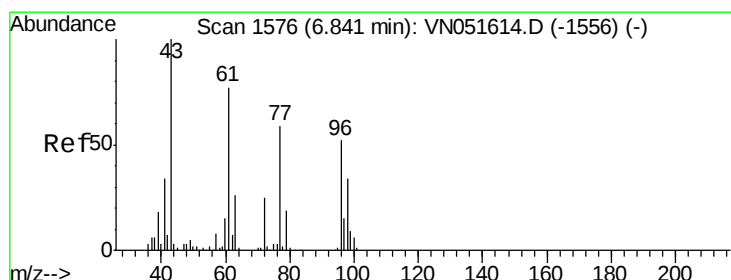
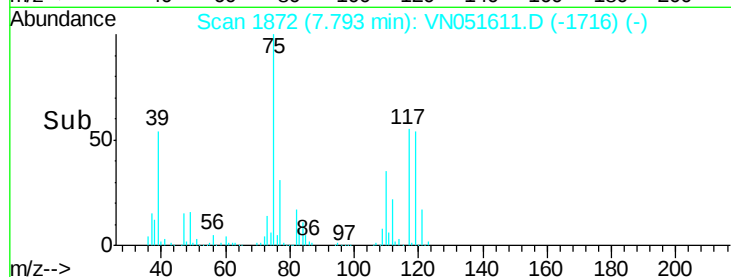
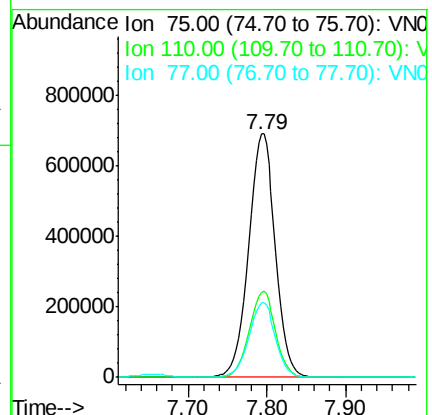
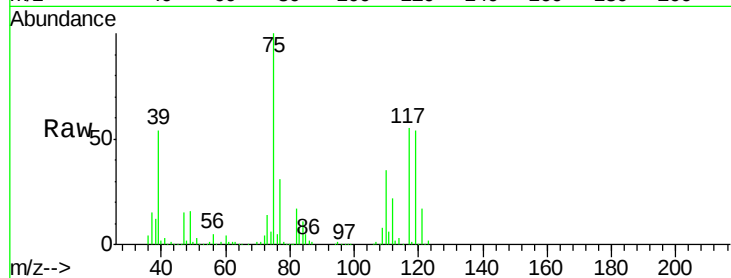
Tgt Ion: 75 Resp: 1651253

Ion Ratio Lower Upper

75 100

110 34.8 0.0 71.0

77 30.7 0.0 62.4



#30

2-Butanone

Concen: 762.719 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

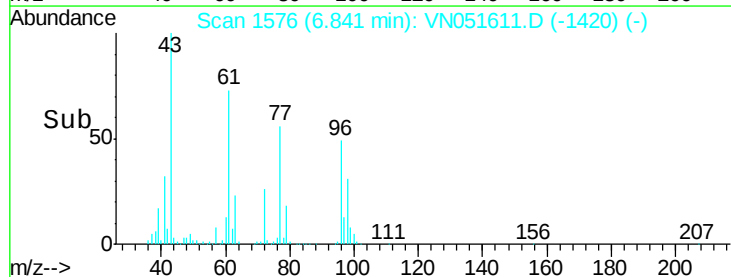
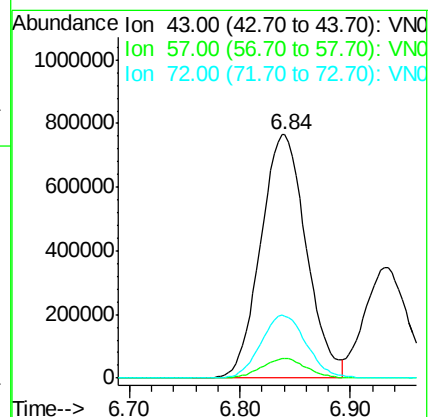
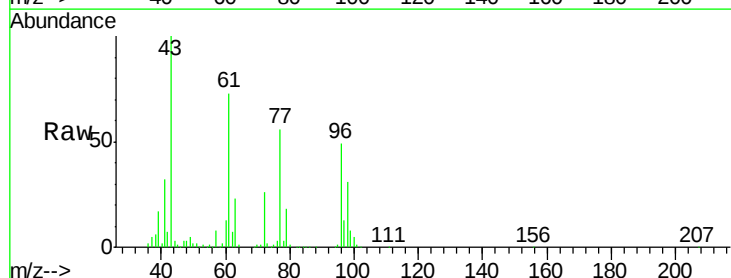
Tgt Ion: 43 Resp: 2189735

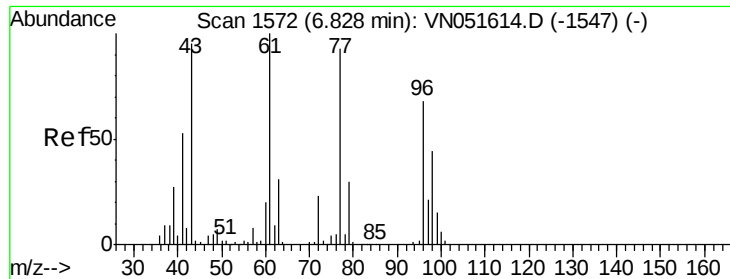
Ion Ratio Lower Upper

43 100

57 8.1 6.6 10.0

72 26.1 20.8 31.2





#31

2,2-Dichloropropane

Concen: 149.692 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

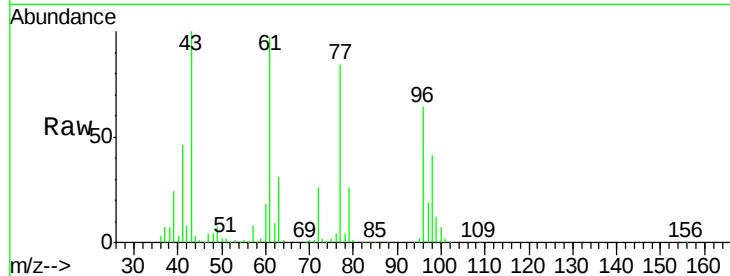
VSTDIC150

Tgt Ion: 77 Resp: 1704218

Ion Ratio Lower Upper

77 100

97 23.0 18.6 28.0



Abundance Ion 77.00 (76.70 to 77.70): VN0

Ion 97.00 (96.70 to 97.70): VN0

6.83

500000

400000

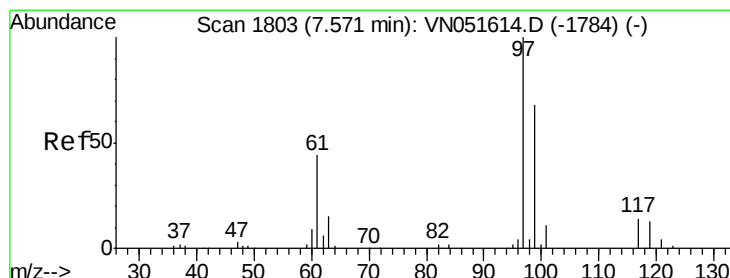
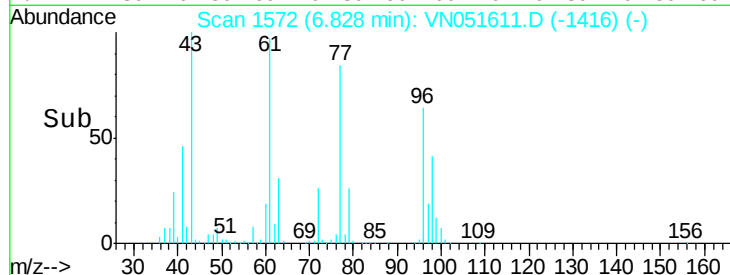
300000

200000

100000

0

Time-->



#32

1,1,1-Trichloroethane

Concen: 149.085 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

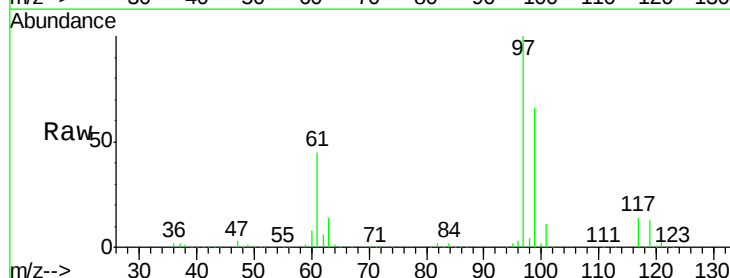
Tgt Ion: 97 Resp: 1766988

Ion Ratio Lower Upper

97 100

99 64.3 52.2 78.4

61 44.6 36.2 54.4



Abundance Ion 97.00 (96.70 to 97.70): VN0

Ion 99.00 (98.70 to 99.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

7.57

800000

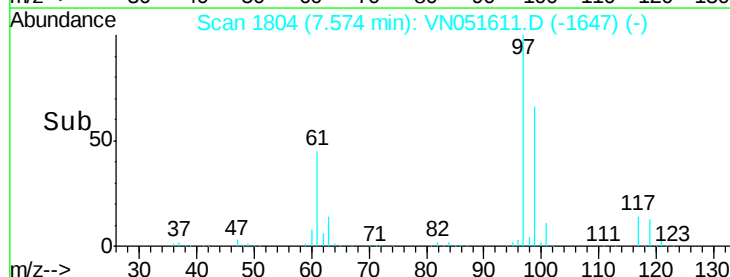
600000

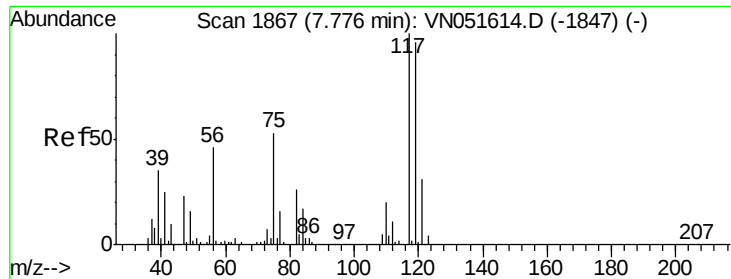
400000

200000

0

Time-->





#33

Carbon Tetrachloride

Concen: 151.921 ug/l

RT: 7.78 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

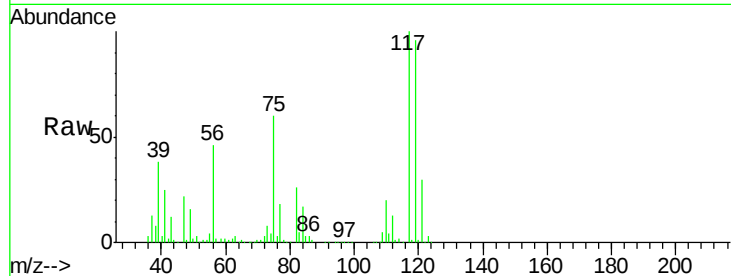
Tgt Ion:117 Resp: 1618337

Ion Ratio Lower Upper

117 100

119 96.4 76.5 114.7

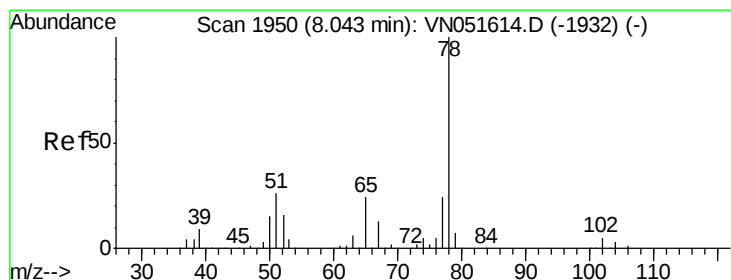
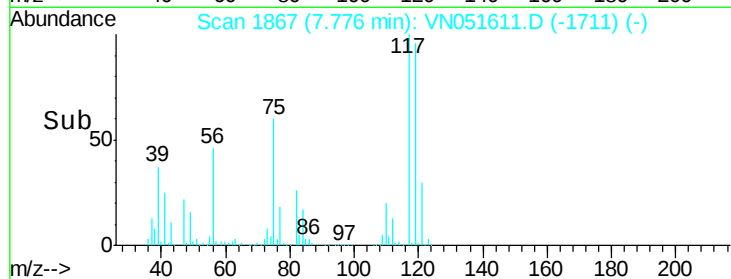
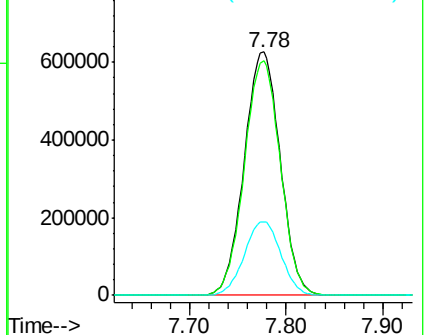
121 30.4 25.0 37.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 150.665 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

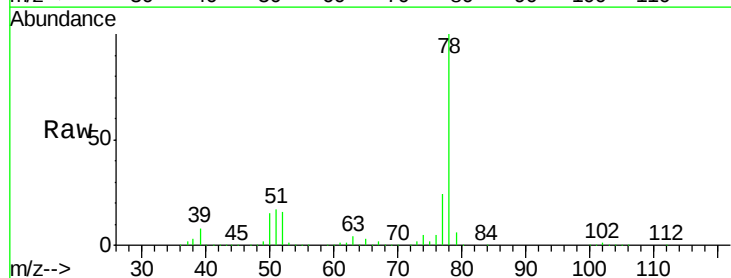
Tgt Ion: 78 Resp: 4715192

Ion Ratio Lower Upper

78 100

77 23.5 19.3 28.9

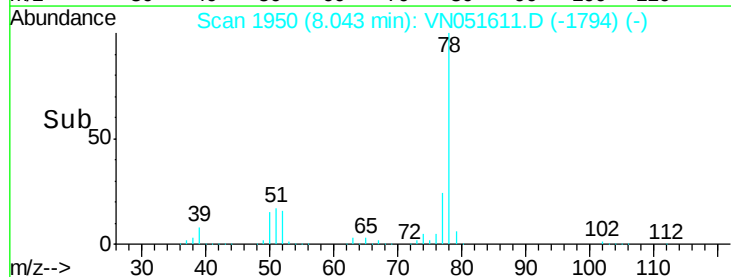
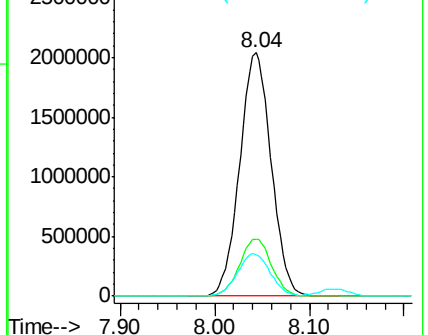
51 17.3 20.8 31.2#

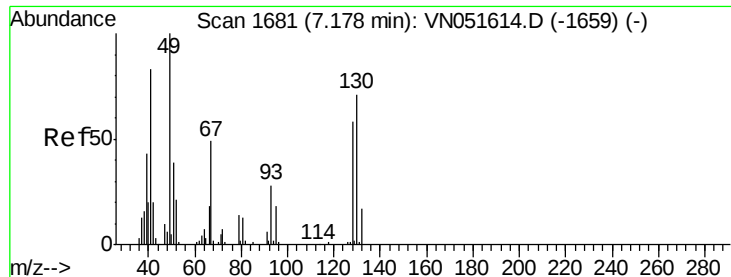


Abundance Ion 78.10 (77.80 to 78.80): V

Ion 77.00 (76.70 to 77.70): V

Ion 51.00 (50.70 to 51.70): V

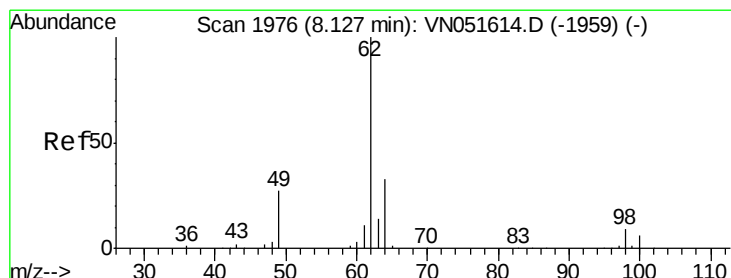
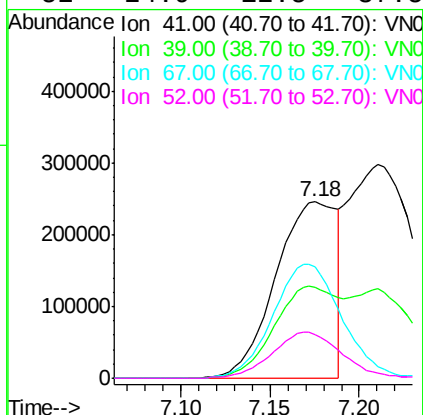
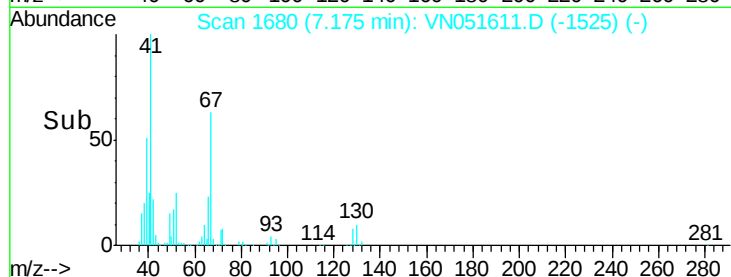
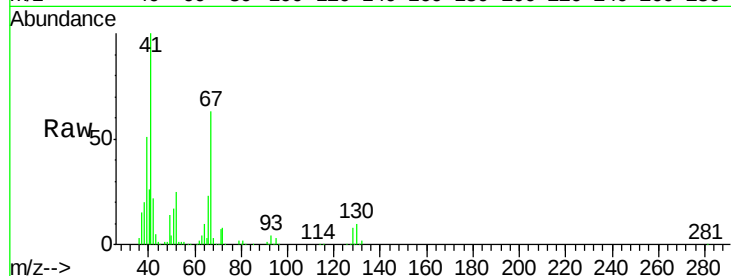




#35
Methacrylonitrile
Concen: 173.751 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

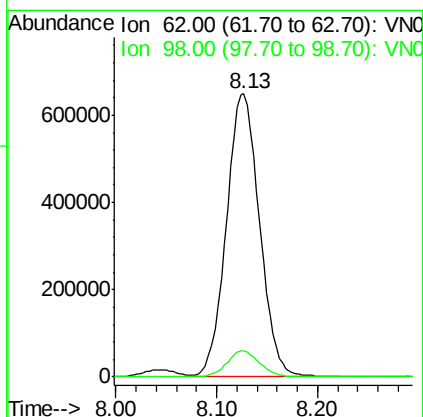
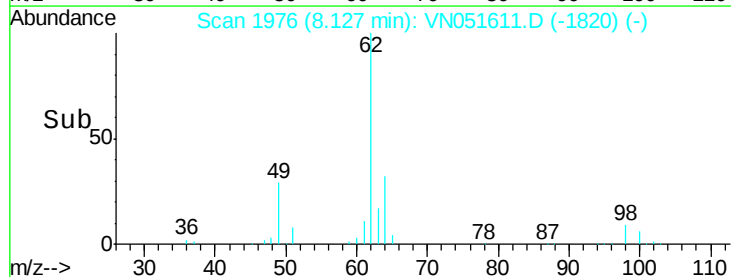
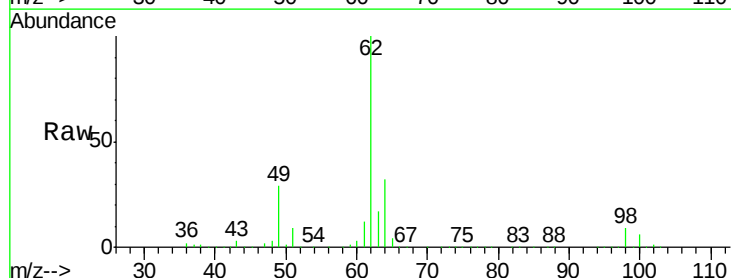
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

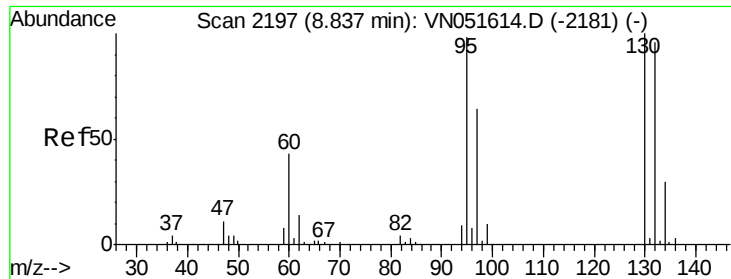
Tgt Ion: 41 Resp: 578216
Ion Ratio Lower Upper
41 100
39 51.3 25.6 76.8
67 63.2 29.4 88.2
52 24.9 12.5 37.5



#36
1,2-Dichloroethane
Concen: 148.232 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 62 Resp: 1478697
Ion Ratio Lower Upper
62 100
98 9.0 7.4 11.2

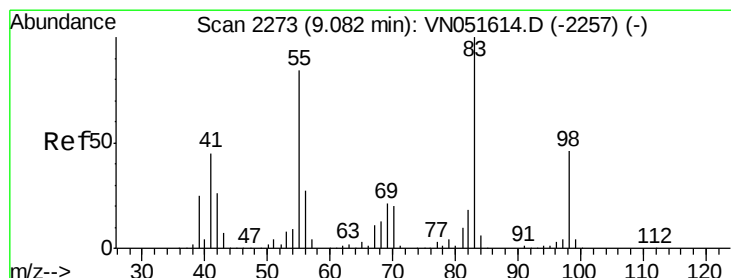
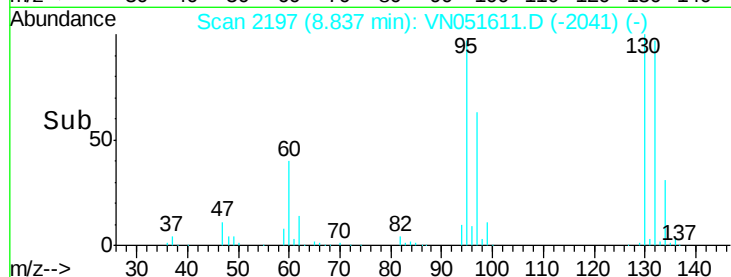
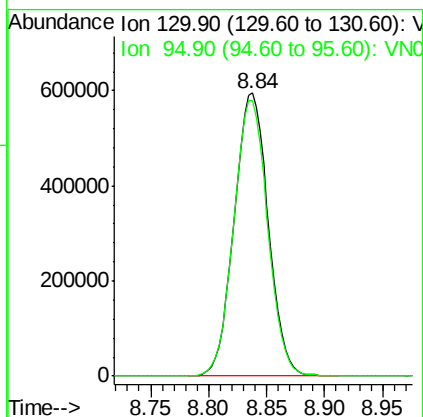
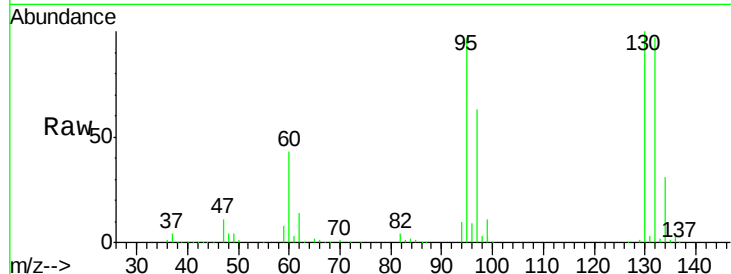




#37
 Trichloroethene
 Concen: 151.193 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

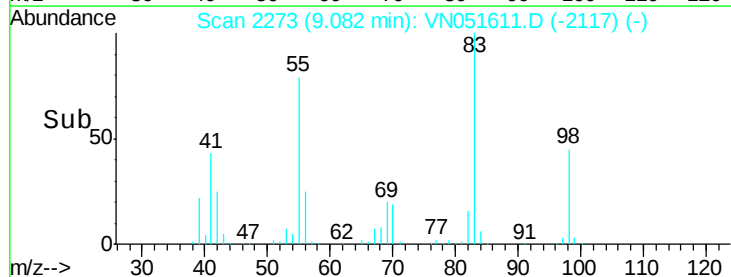
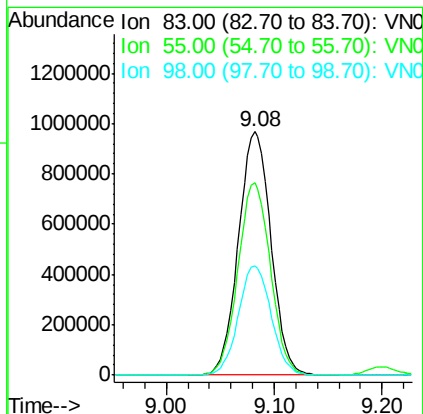
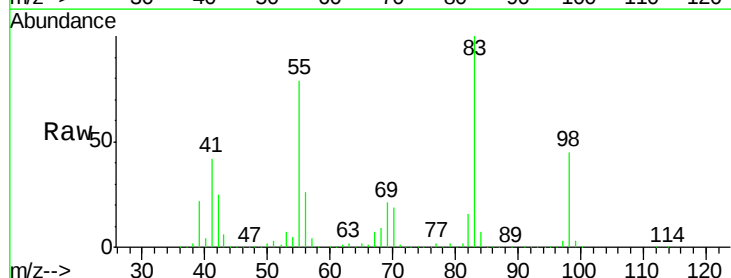
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

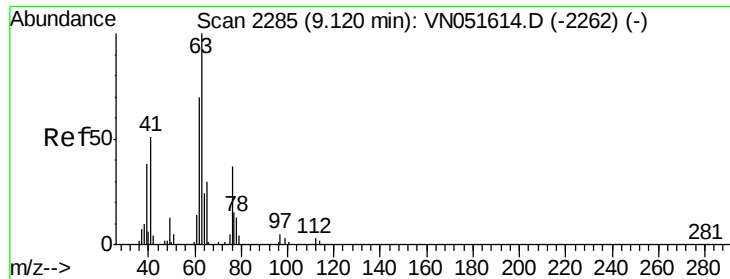
Tgt Ion:130 Resp: 1214838
 Ion Ratio Lower Upper
 130 100
 95 97.3 78.4 117.6



#38
 Methylcyclohexane
 Concen: 167.122 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 83 Resp: 2034239
 Ion Ratio Lower Upper
 83 100
 55 78.8 41.6 124.9
 98 45.1 23.1 69.2





#39

1,2-Dichloropropane

Concen: 150.186 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

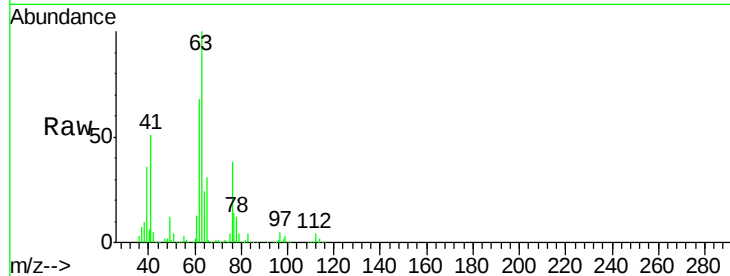
VSTDIC150

Tgt Ion: 63 Resp: 1287911

Ion Ratio Lower Upper

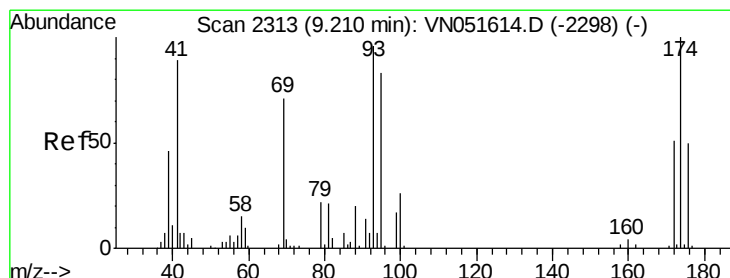
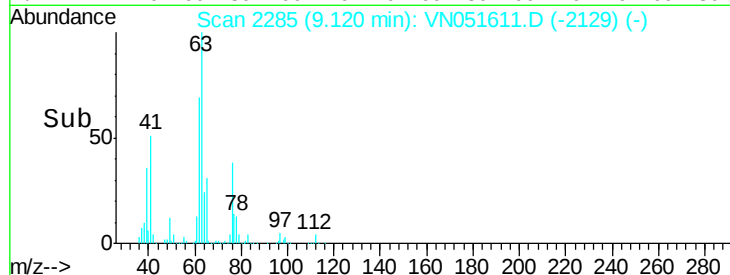
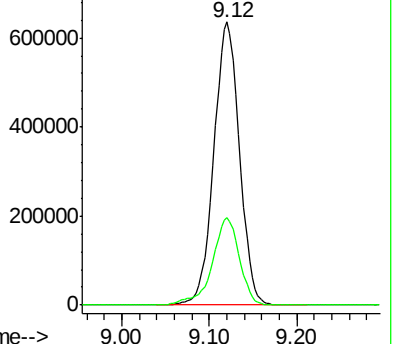
63 100

65 30.8 24.4 36.6



Abundance Ion 63.00 (62.70 to 63.70): VN051611.D (-2262) (-)

Ion 65.00 (64.70 to 65.70): VN051611.D (-2262) (-)



#40

Dibromomethane

Concen: 150.147 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

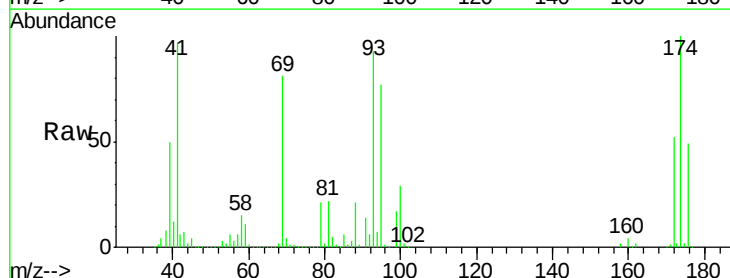
Tgt Ion: 93 Resp: 715248

Ion Ratio Lower Upper

93 100

95 83.0 0.0 171.0

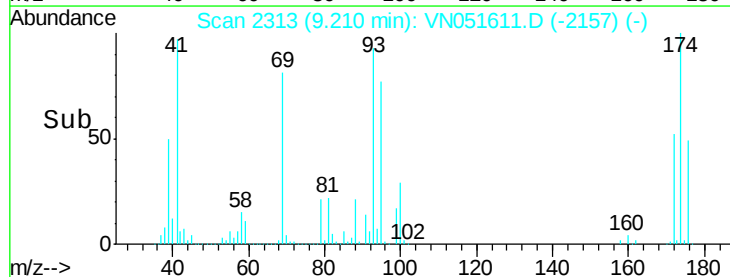
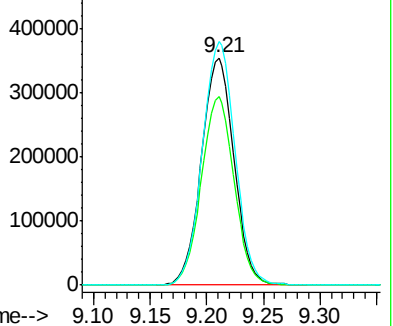
174 107.1 0.0 212.0

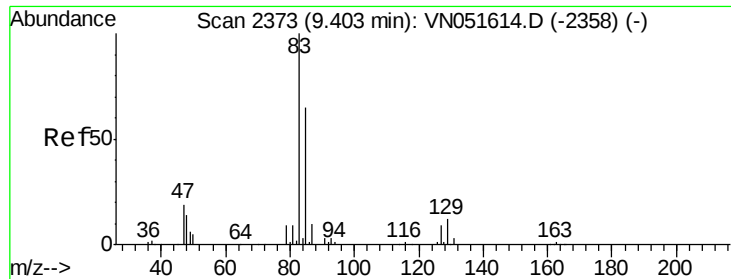


Abundance Ion 93.00 (92.70 to 93.70): VN051611.D (-2298) (-)

Ion 95.00 (94.70 to 95.70): VN051611.D (-2298) (-)

Ion 174.00 (173.70 to 174.70): VN051611.D (-2298) (-)

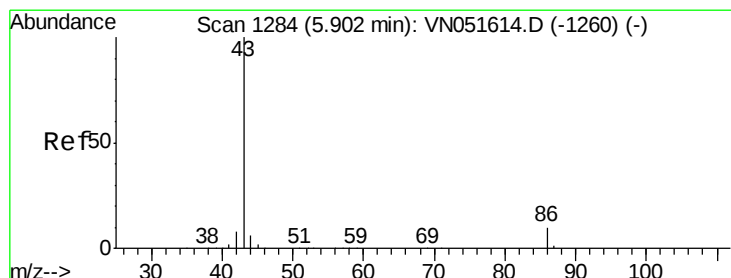
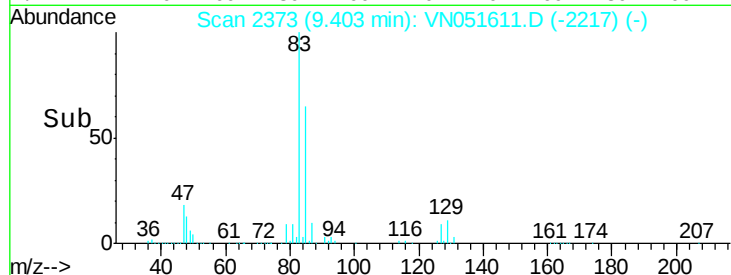
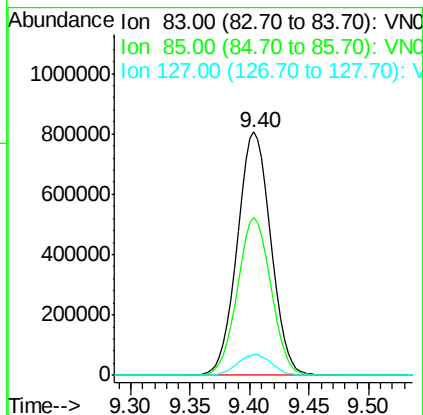
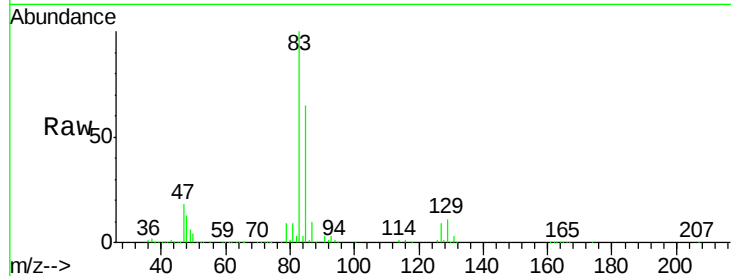




#41
 Bromodichloromethane
 Concen: 151.475 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

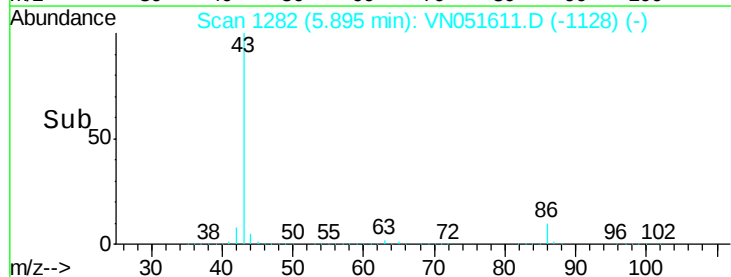
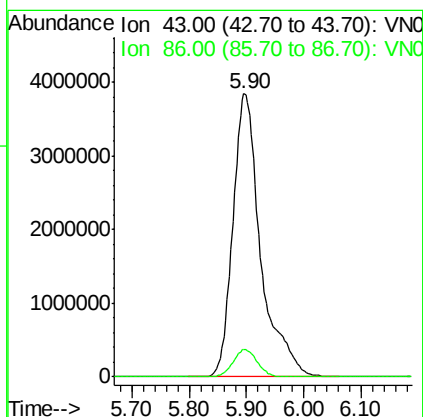
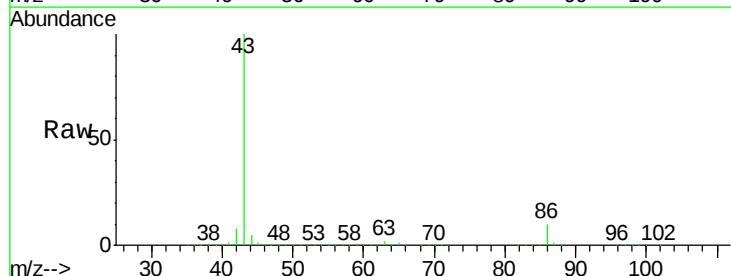
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

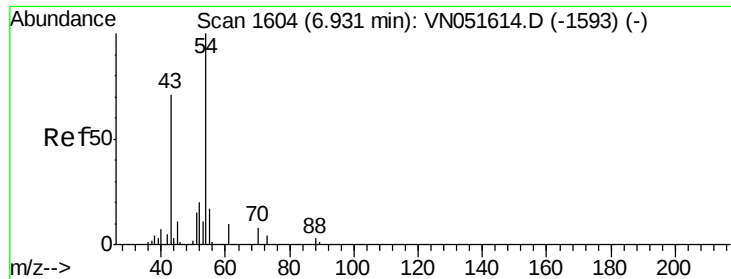
Tgt Ion: 83 Resp: 1575075
 Ion Ratio Lower Upper
 83 100
 85 64.8 52.1 78.1
 127 8.6 7.1 10.7



#42
 Vinyl Acetate
 Concen: 813.077 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. -0.01 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 43 Resp: 12995453
 Ion Ratio Lower Upper
 43 100
 86 8.5 6.6 9.8





#43

Ethyl Acetate

Concen: 159.773 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

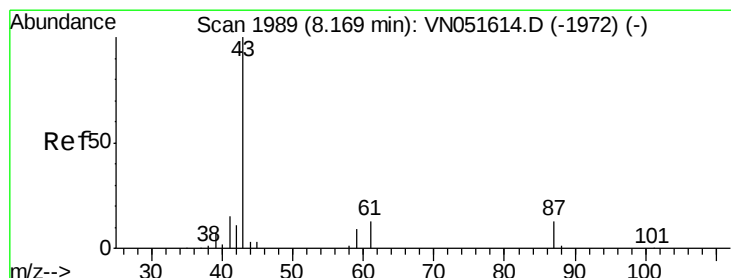
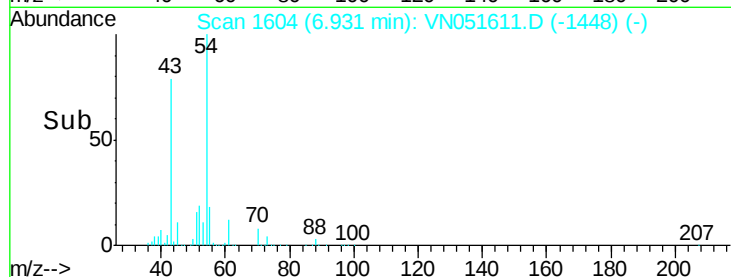
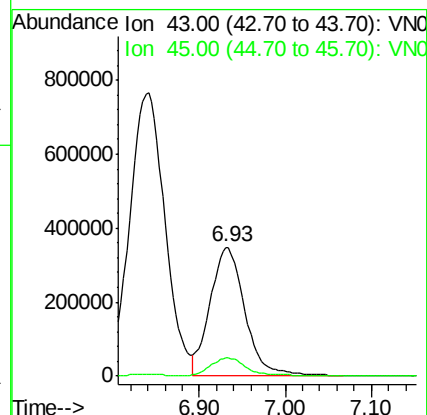
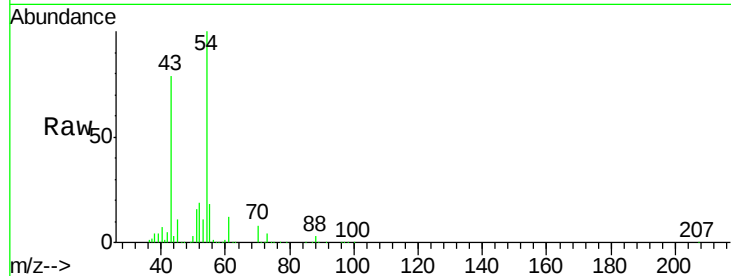
VSTDIC150

Tgt Ion: 43 Resp: 970925

Ion Ratio Lower Upper

43 100

45 13.5 10.6 16.0



#44

Isopropyl Acetate

Concen: 153.216 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051611.D

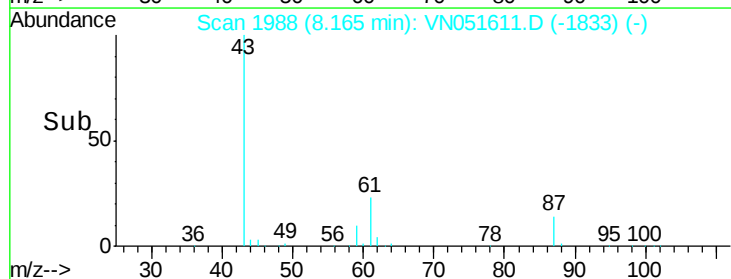
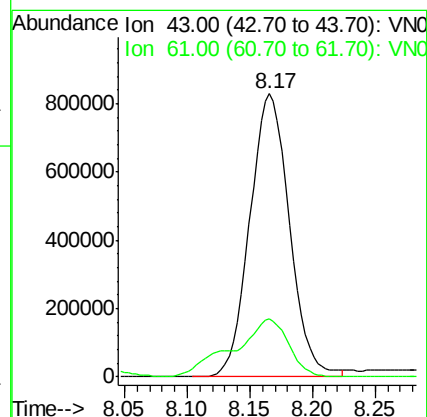
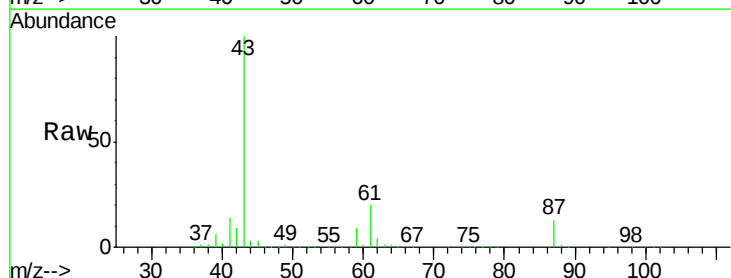
Acq: 28 Sep 2018 9:53

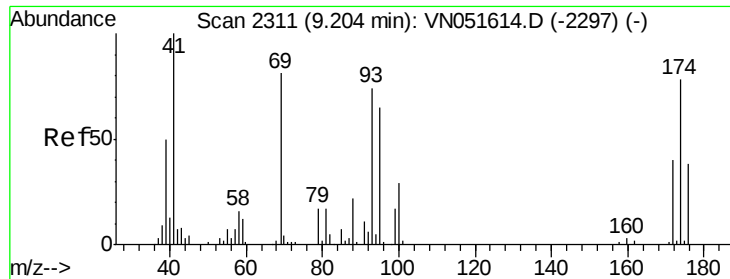
Tgt Ion: 43 Resp: 1823073

Ion Ratio Lower Upper

43 100

61 20.2 15.4 23.0





#45

1,4-Dioxane

Concen: 3308.894 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

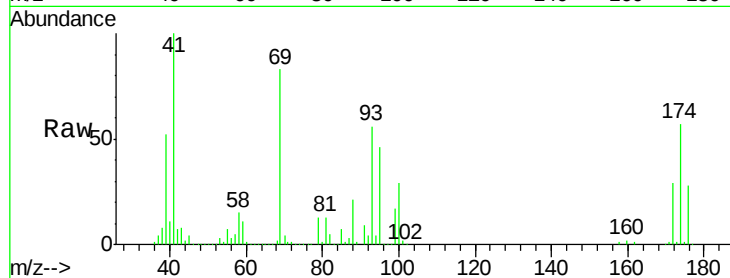
Tgt Ion: 88 Resp: 212696

Ion Ratio Lower Upper

88 100

43 34.8 29.0 43.6

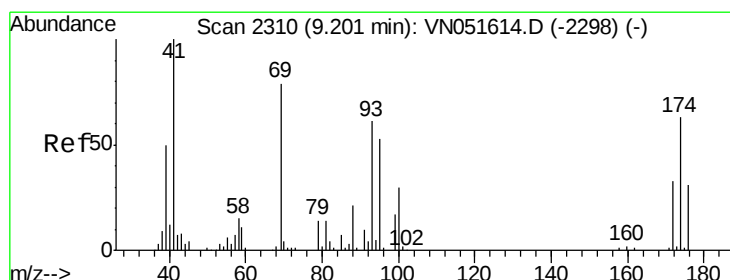
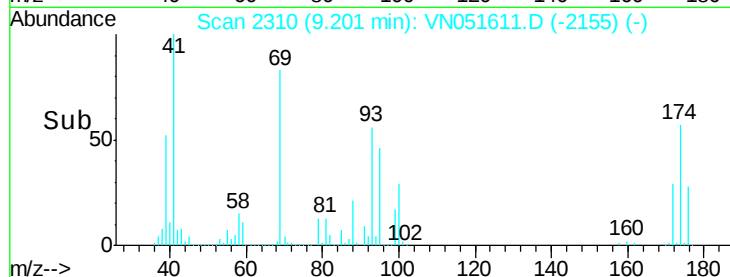
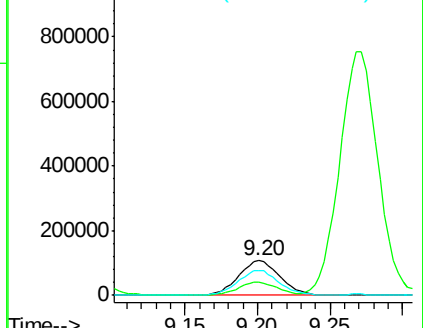
58 71.8 59.0 88.6



Abundance Ion 88.00 (87.70 to 88.70): VN051611.D (-2297) (-)

Ion 43.00 (42.70 to 43.70): VN051611.D (-2297) (-)

Ion 58.00 (57.70 to 58.70): VN051611.D (-2297) (-)



#46

Methyl methacrylate

Concen: 167.089 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

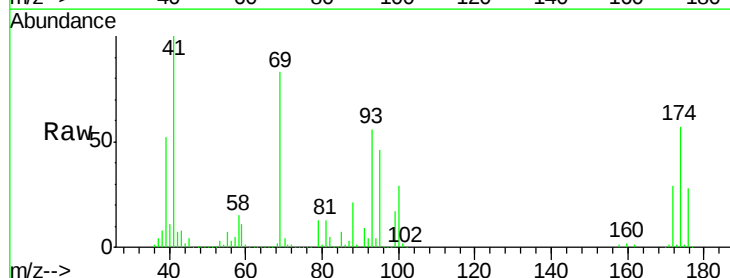
Tgt Ion: 41 Resp: 924864

Ion Ratio Lower Upper

41 100

69 83.9 39.6 118.7

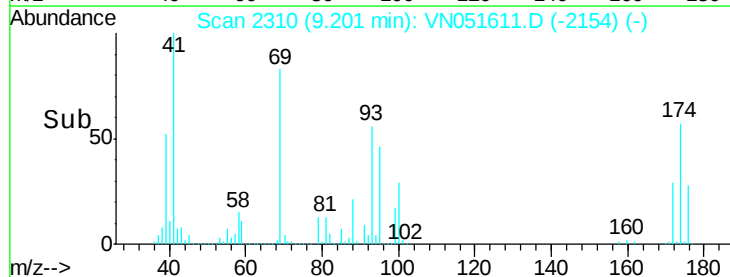
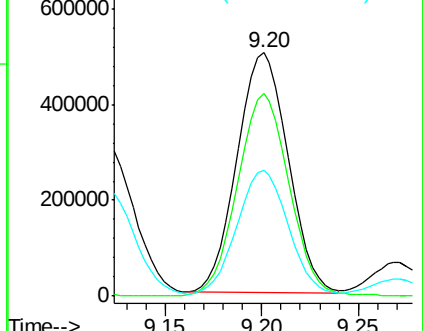
39 51.4 24.9 74.6

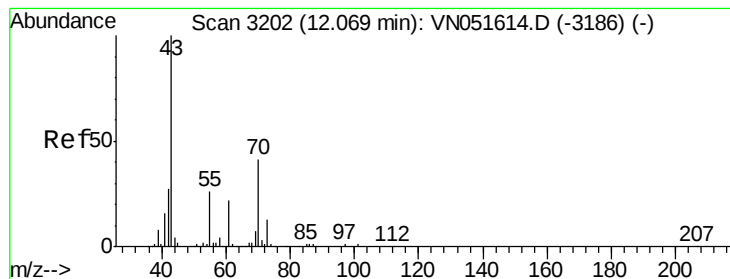


Abundance Ion 41.00 (40.70 to 41.70): VN051611.D (-2154) (-)

Ion 69.00 (68.70 to 69.70): VN051611.D (-2154) (-)

Ion 39.00 (38.70 to 39.70): VN051611.D (-2154) (-)





#47

n-amyl Acetate

Concen: 190.390 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

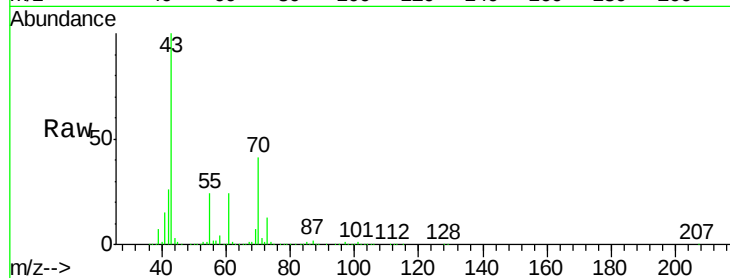
VSTDIC150

Tgt Ion: 43 Resp: 1695006

Ion Ratio Lower Upper

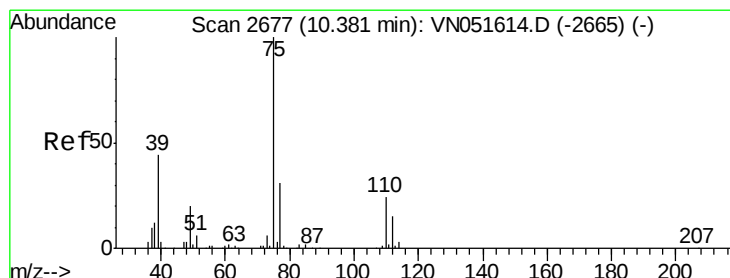
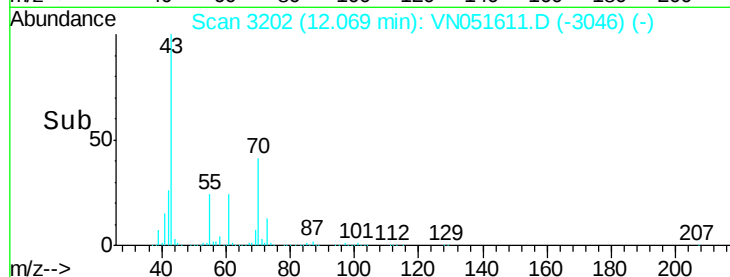
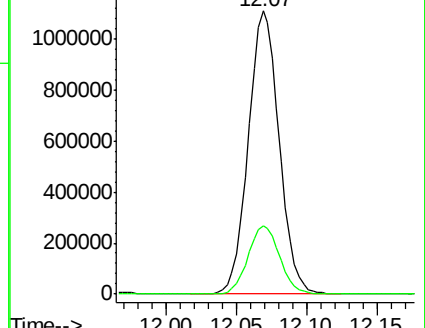
43 100

55 24.8 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN051611.D (-3046) (-)

Ion 55.00 (54.70 to 55.70): VN051611.D (-3046) (-)



#48

t-1,3-Dichloropropene

Concen: 164.551 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN051611.D

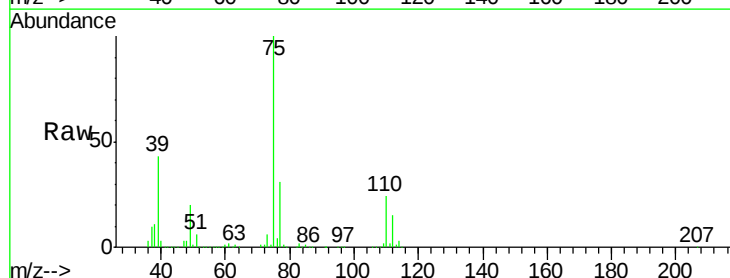
Acq: 28 Sep 2018 9:53

Tgt Ion: 75 Resp: 1707750

Ion Ratio Lower Upper

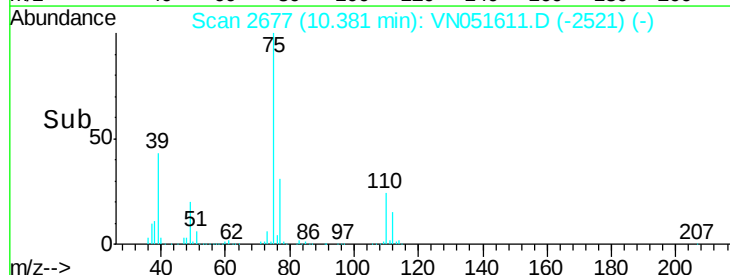
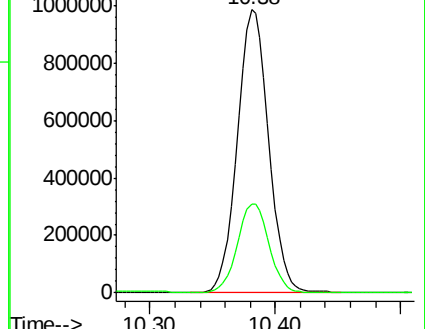
75 100

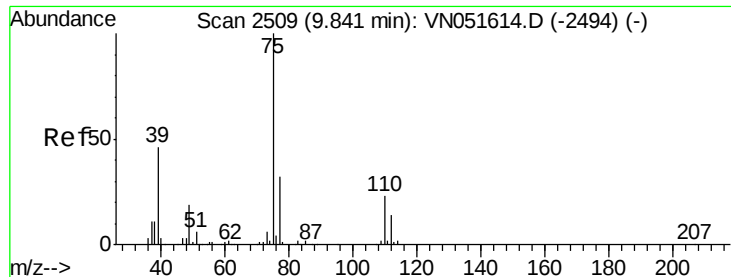
77 31.3 26.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VN051611.D (-2521) (-)

Ion 77.00 (76.70 to 77.70): VN051611.D (-2521) (-)



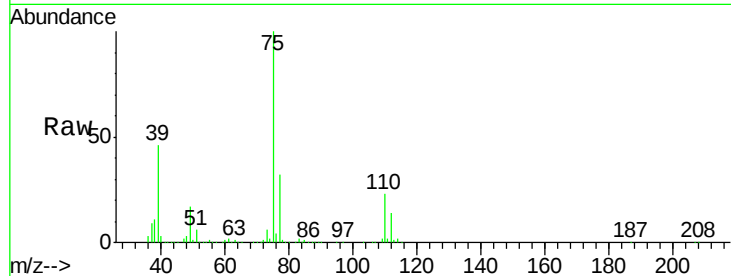


#49

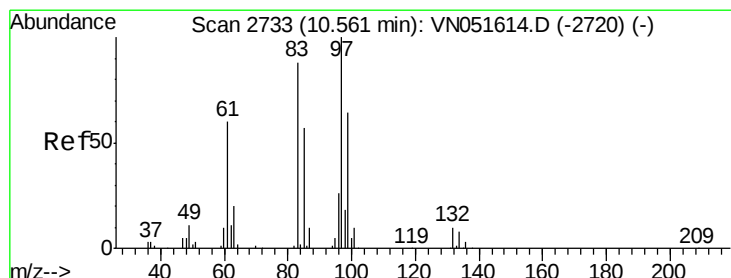
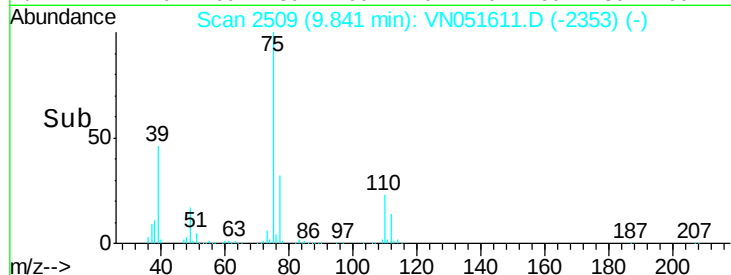
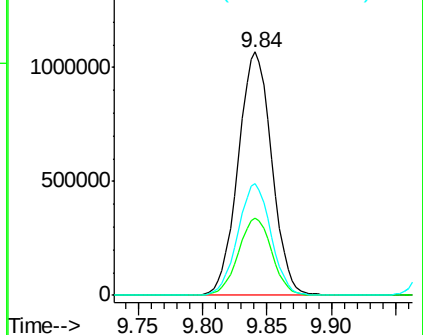
cis-1,3-Dichloropropene
Concen: 160.611 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion: 75 Resp: 1948789
Ion Ratio Lower Upper
75 100
77 31.7 25.4 38.0
39 45.9 36.6 55.0



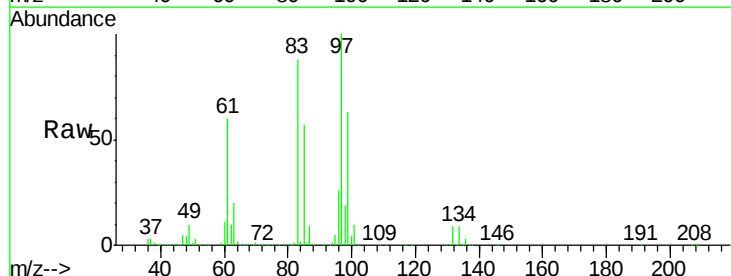
Abundance Ion 75.00 (74.70 to 75.70): VN0
Ion 77.00 (76.70 to 77.70): VN0
Ion 39.00 (38.70 to 39.70): VN0



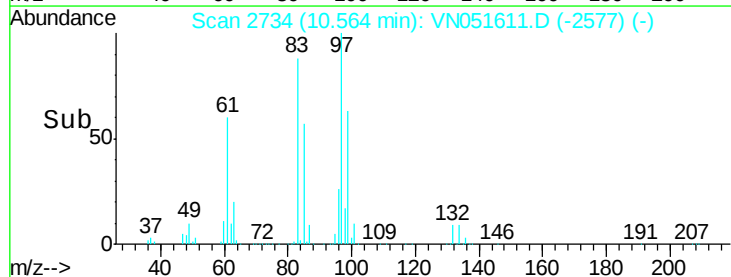
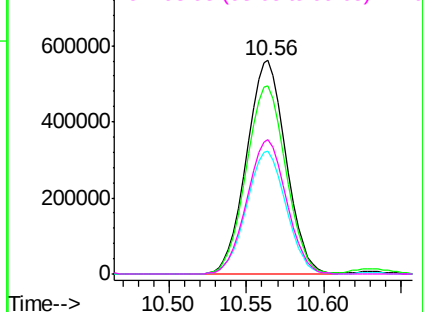
#50

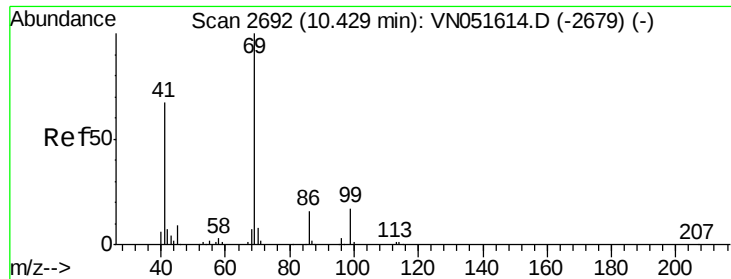
1,1,2-Trichloroethane
Concen: 147.849 ug/l
RT: 10.56 min Scan# 2734
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 97 Resp: 995313
Ion Ratio Lower Upper
97 100
83 88.4 70.2 105.2
85 57.3 45.6 68.4
99 62.7 51.5 77.3



Abundance Ion 97.00 (96.70 to 97.70): VN0
Ion 82.95 (82.65 to 83.65): VN0
Ion 84.95 (84.65 to 85.65): VN0
Ion 98.95 (98.65 to 99.65): VN0





#51

Ethyl methacrylate

Concen: 173.893 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

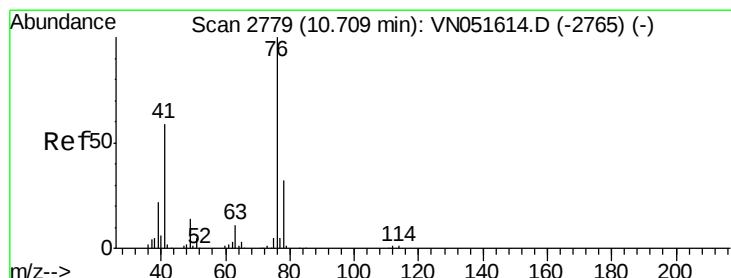
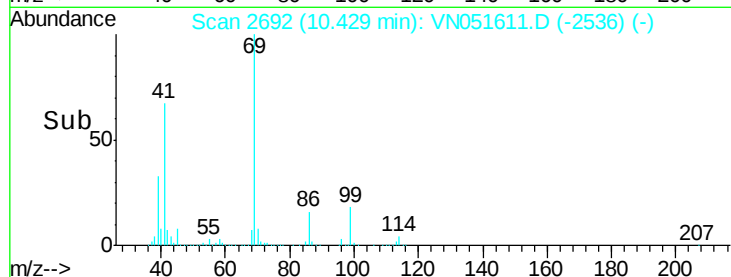
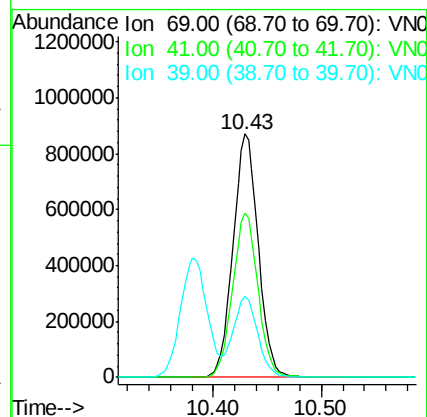
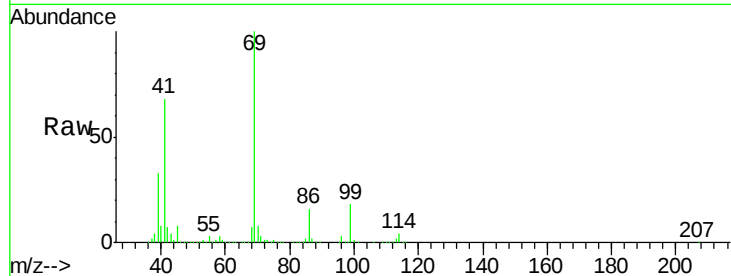
MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 69 Resp: 1420329

Ion	Ratio	Lower	Upper
69	100		
41	67.5	33.3	99.8
39	33.1	17.2	51.6



#52

1,3-Dichloropropane

Concen: 153.090 ug/l

RT: 10.71 min Scan# 2779

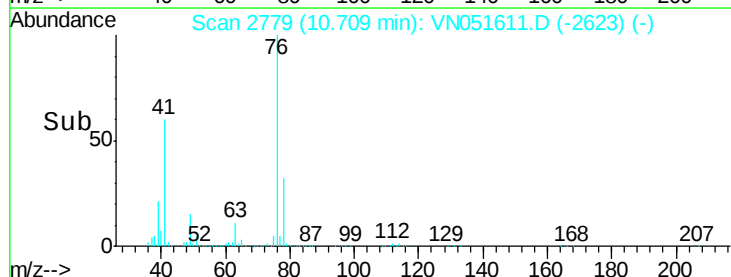
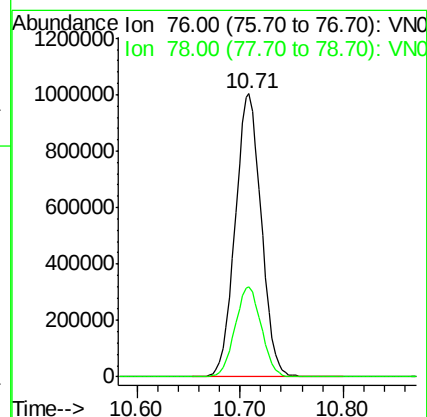
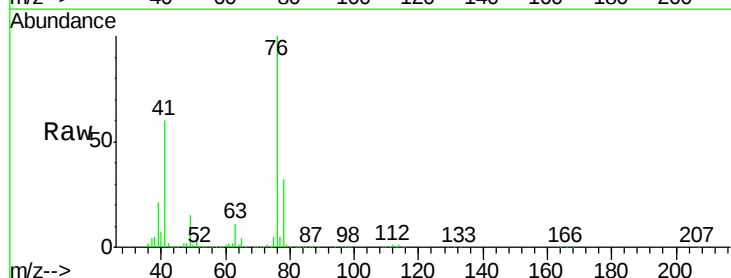
Delta R.T. 0.00 min

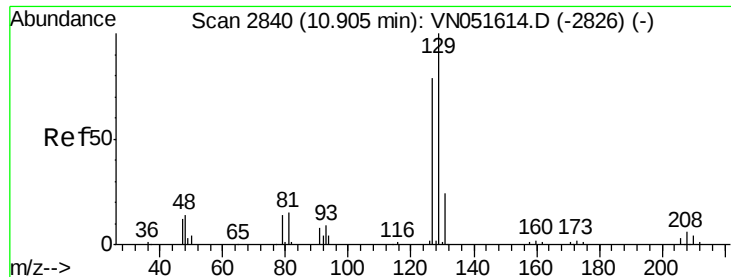
Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Tgt Ion: 76 Resp: 1767052

Ion	Ratio	Lower	Upper
76	100		
78	32.2	0.0	63.4





#53

Dibromochloromethane

Concen: 155.415 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

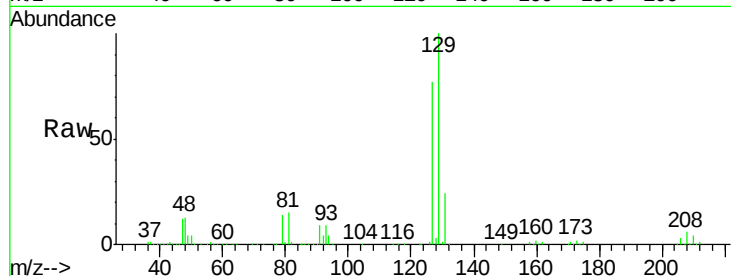
VSTDIC150

Tgt Ion:129 Resp: 1191608

Ion Ratio Lower Upper

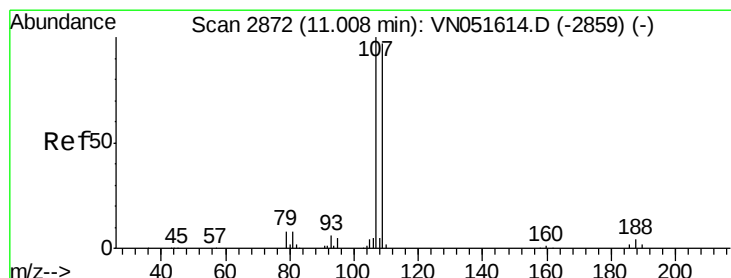
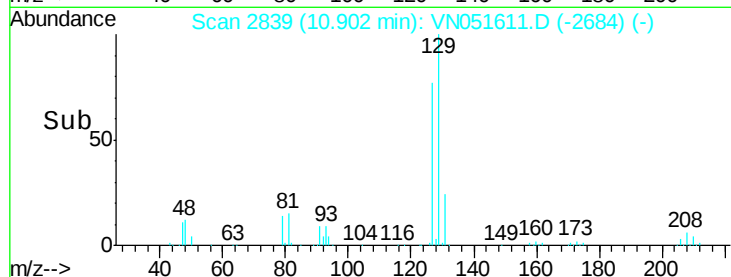
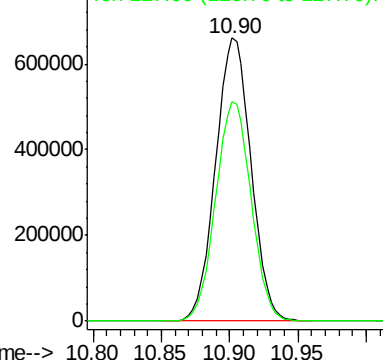
129 100

127 77.8 38.9 116.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 158.022 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051611.D

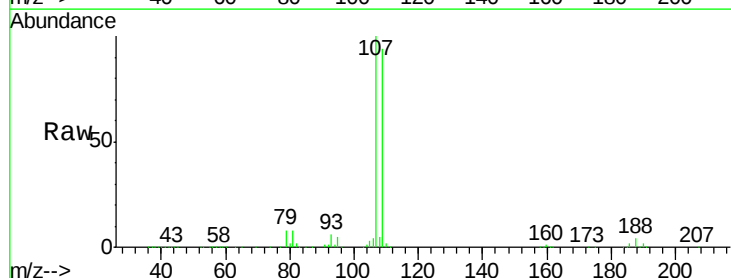
Acq: 28 Sep 2018 9:53

Tgt Ion:107 Resp: 1020754

Ion Ratio Lower Upper

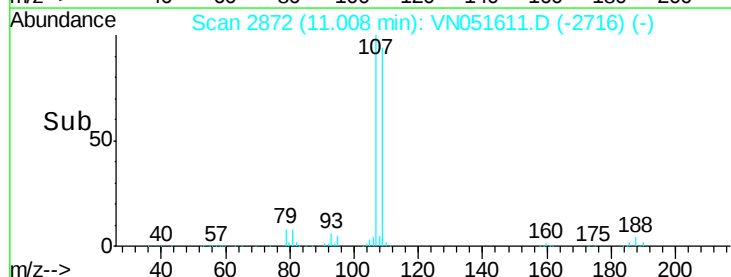
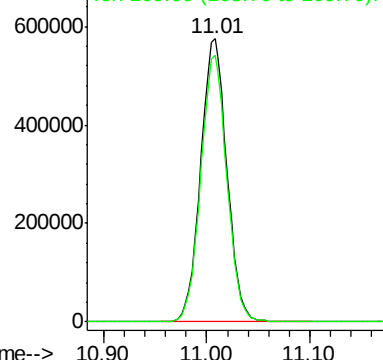
107 100

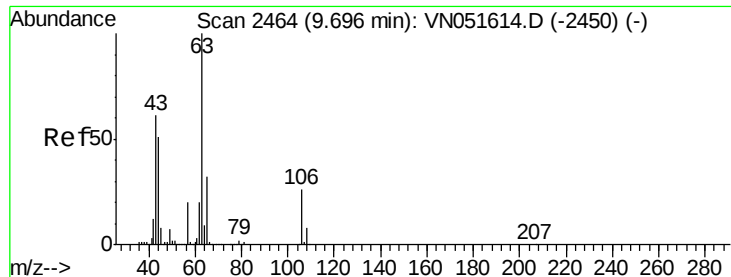
109 93.9 76.5 114.7



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: 857.109 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

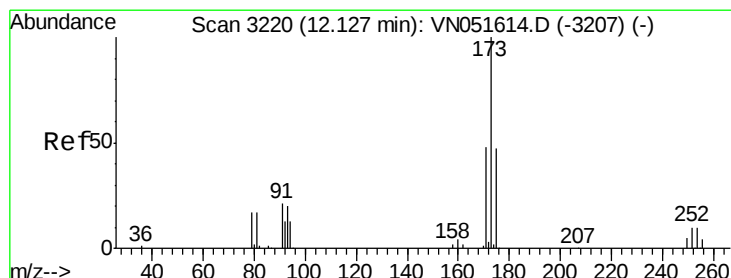
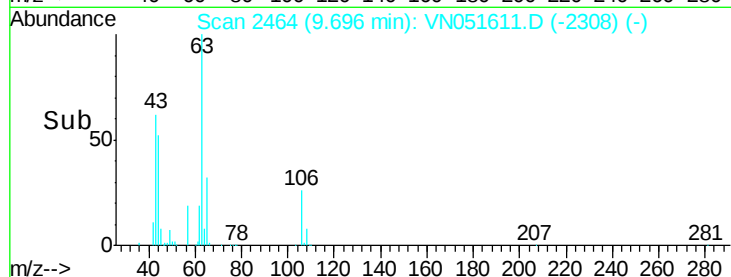
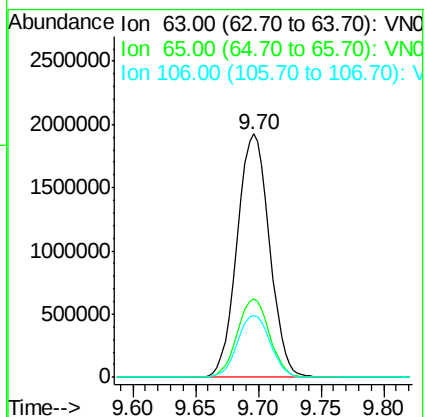
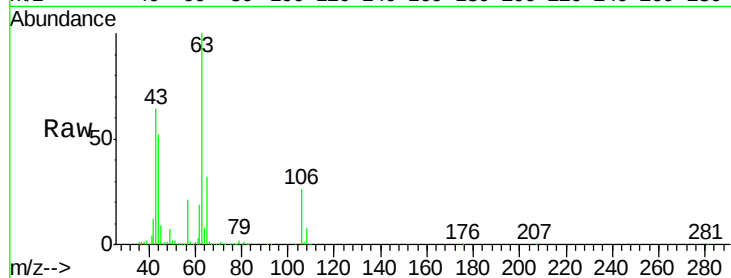
Tgt Ion: 63 Resp: 3460310

Ion Ratio Lower Upper

63 100

65 32.1 25.8 38.6

106 25.8 20.4 30.6



#56

Bromoform

Concen: 162.288 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

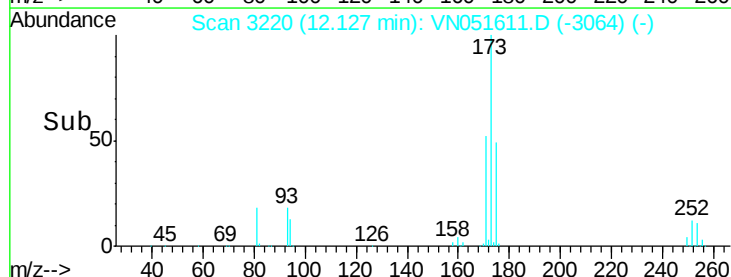
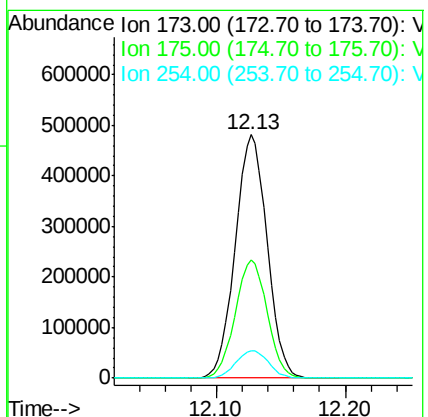
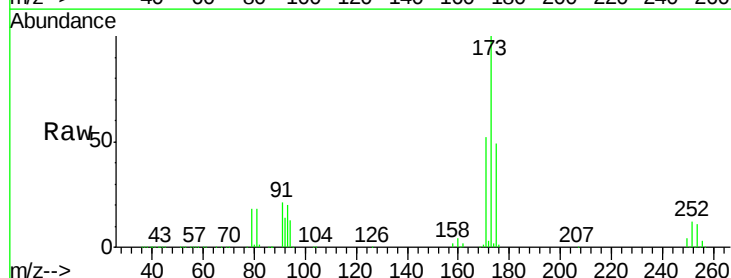
Tgt Ion: 173 Resp: 825654

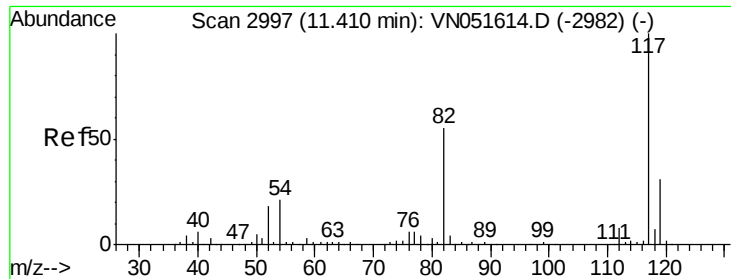
Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.4

254 11.6 8.7 13.1

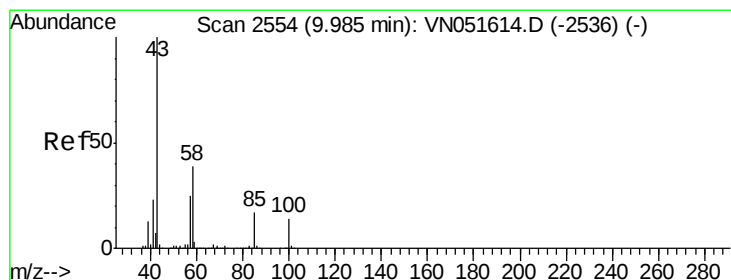
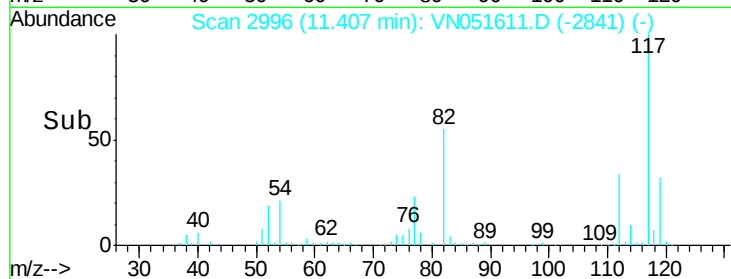
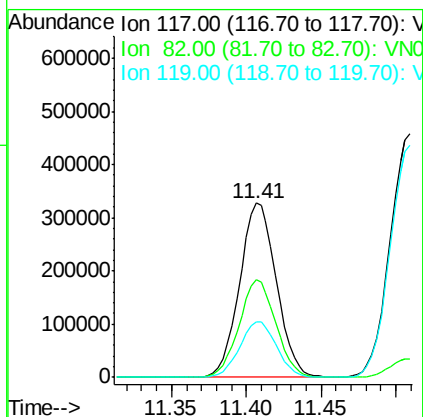
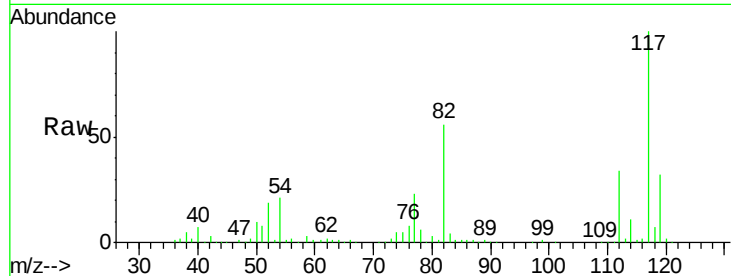




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

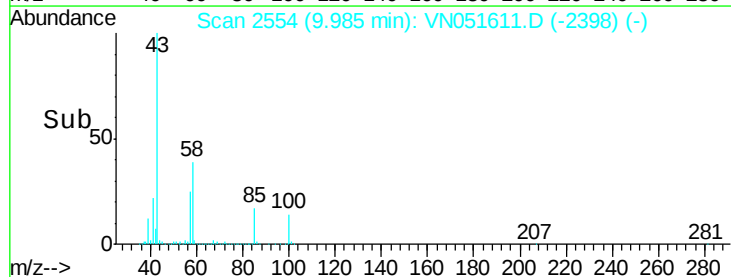
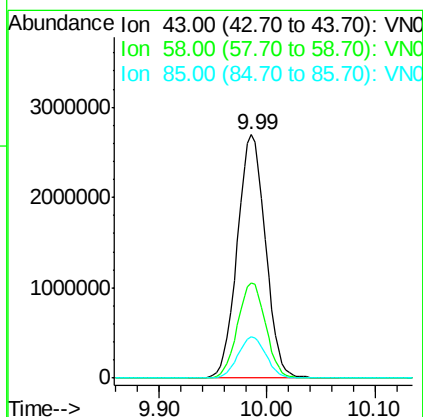
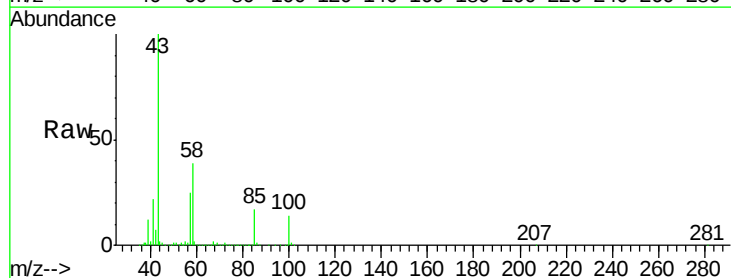
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

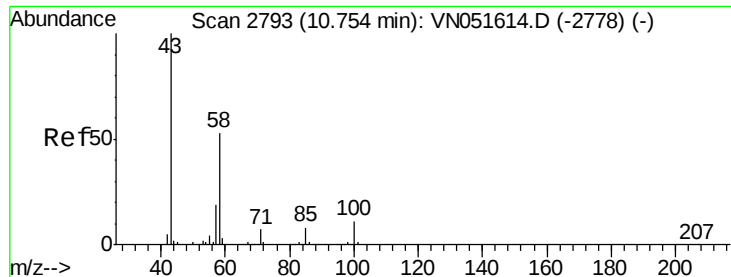
Tgt Ion: 117 Resp: 560653
Ion Ratio Lower Upper
117 100
82 56.1 44.2 66.2
119 32.0 25.2 37.8



#58
4-Methyl-2-Pentanone
Concen: 770.293 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 43 Resp: 4903262
Ion Ratio Lower Upper
43 100
58 39.0 31.0 46.4
85 16.8 13.4 20.2

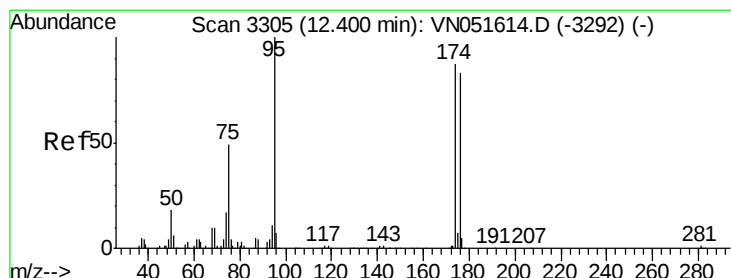
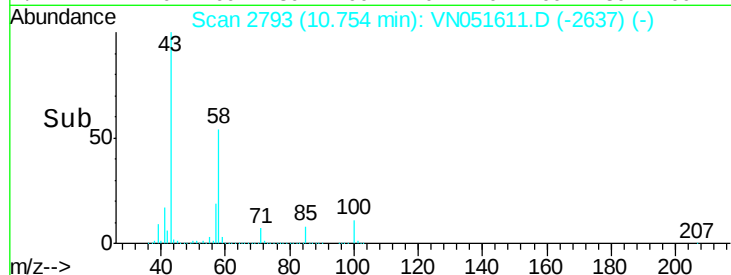
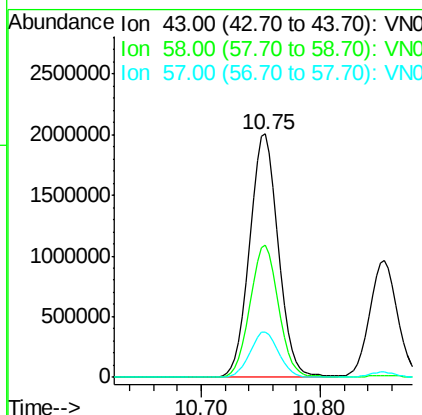
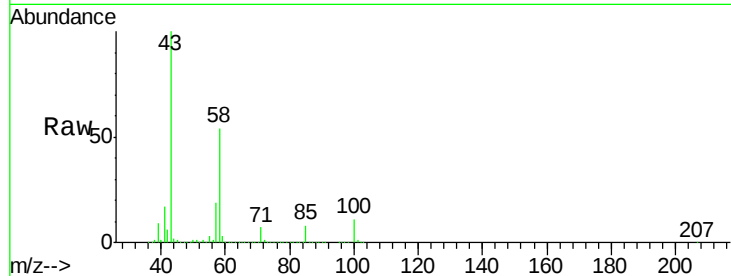




#59
2-Hexanone
Concen: 799.713 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

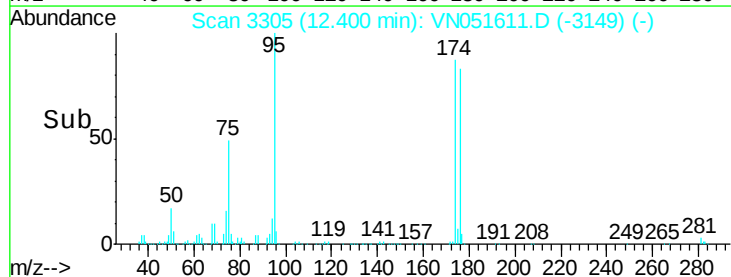
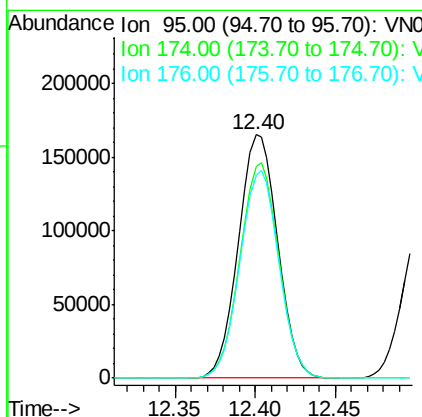
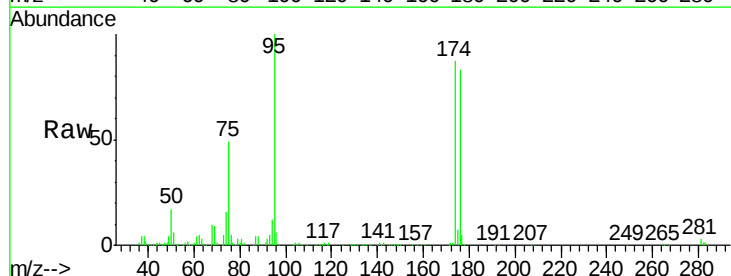
Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

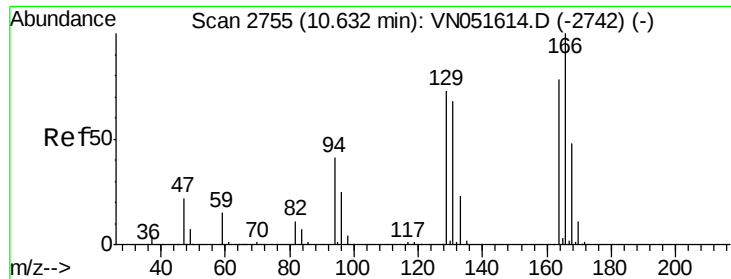
Tgt Ion: 43 Resp: 3348911
Ion Ratio Lower Upper
43 100
58 54.4 41.5 62.3
57 18.7 14.2 21.4



#60
4-Bromofluorobenzene
Concen: 799.713 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 95 Resp: 276681
Ion Ratio Lower Upper
95 100
174 87.3 71.2 106.8
176 84.6 67.8 101.8





#61

Tetrachloroethene

Concen: 141.586 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:164 Resp: 1123869

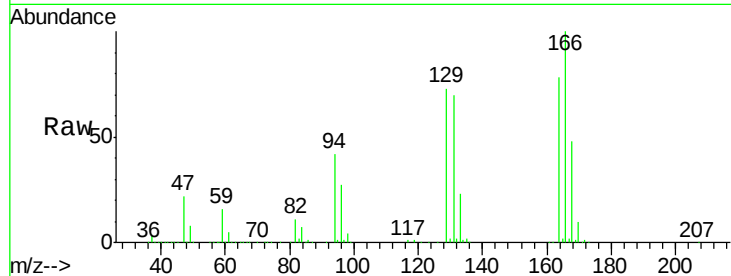
Ion Ratio Lower Upper

164 100

166 127.6 103.1 154.7

129 93.3 75.3 112.9

131 89.8 70.8 106.2

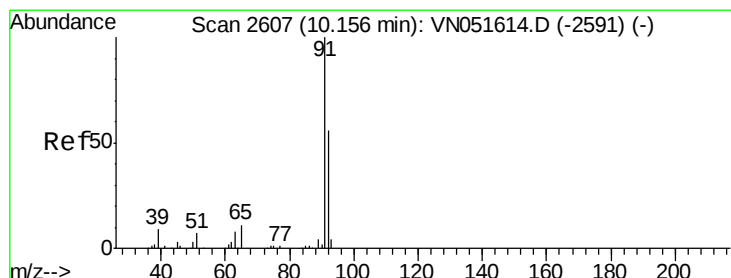
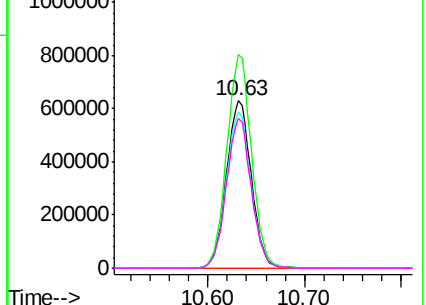
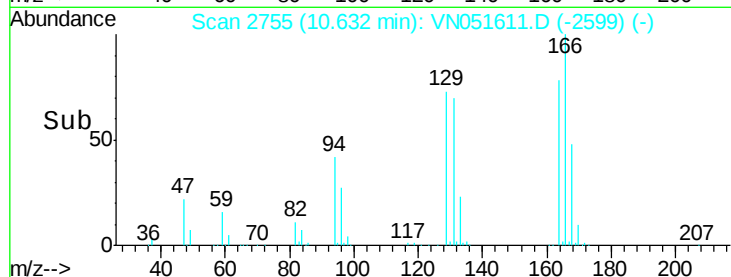


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 147.995 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051611.D

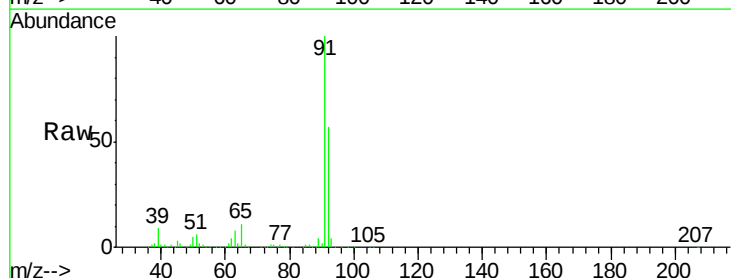
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 5087703

Ion Ratio Lower Upper

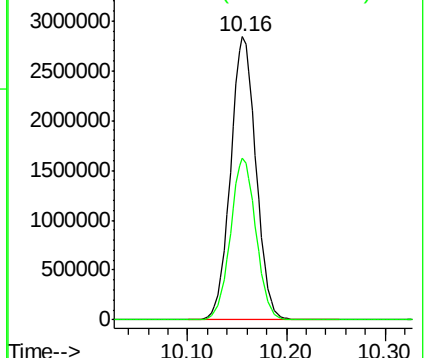
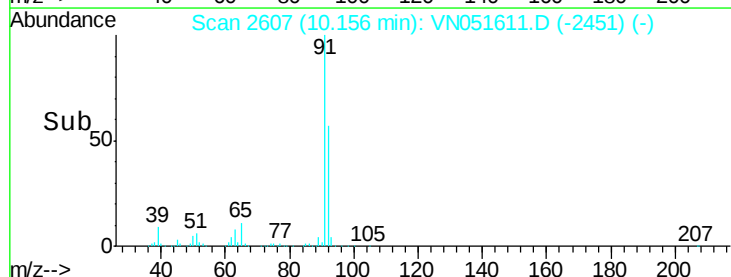
91 100

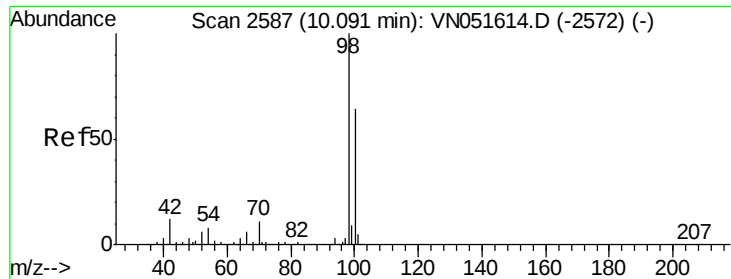
92 57.1 45.3 67.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 147.995 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

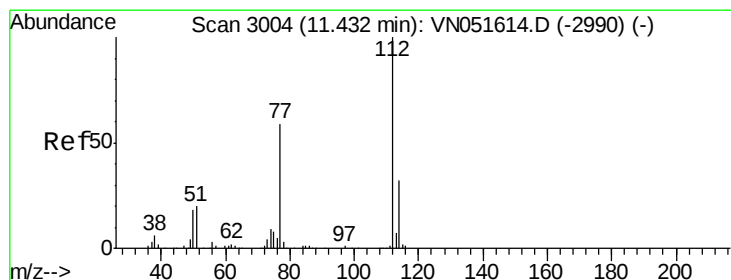
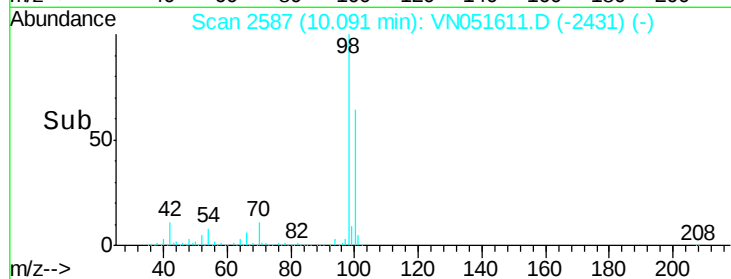
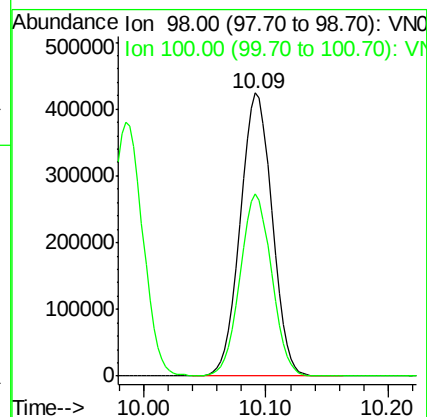
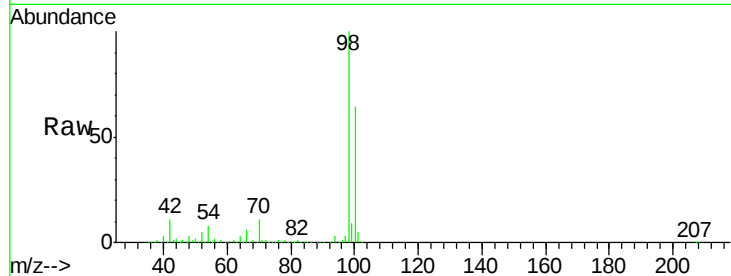
VSTDIC150

Tgt Ion: 98 Resp: 767802

Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.0



#64

Chlorobenzene

Concen: 152.534 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN051611.D

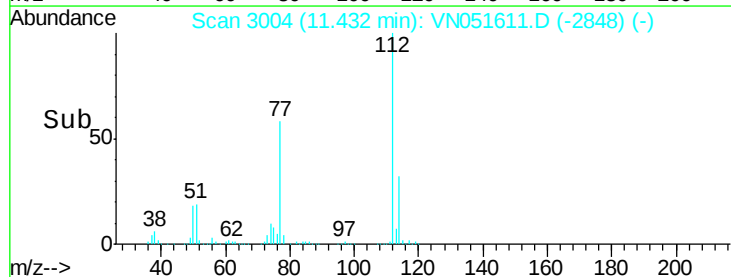
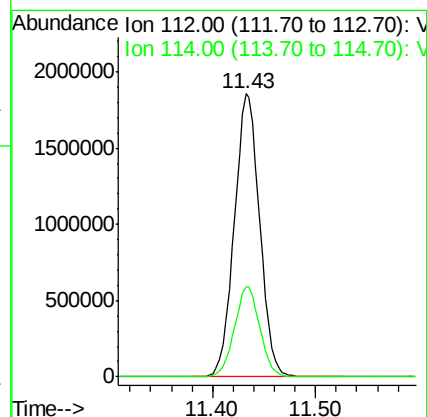
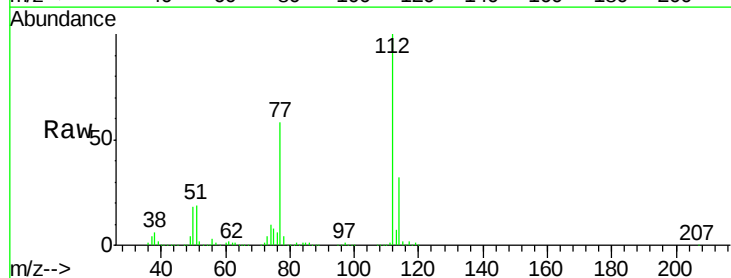
Acq: 28 Sep 2018 9:53

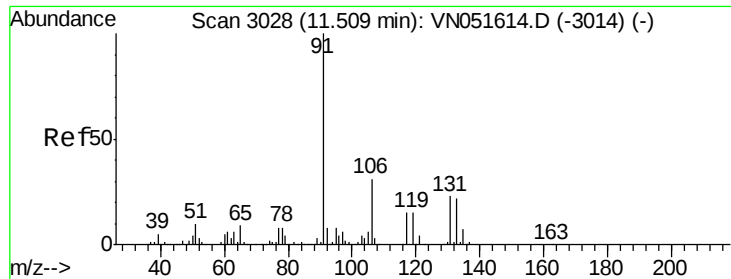
Tgt Ion: 112 Resp: 3170493

Ion Ratio Lower Upper

112 100

114 31.9 25.9 38.9





#65

1,1,1,2-Tetrachloroethane

Concen: 149.437 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

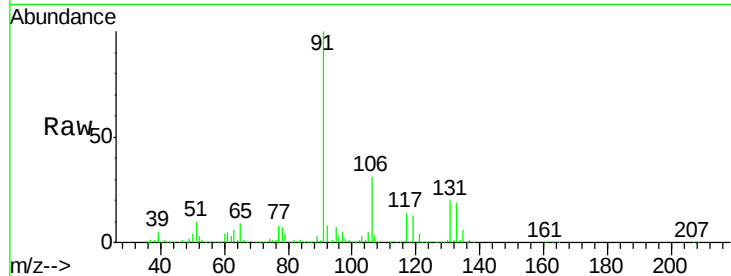
Tgt Ion:131 Resp: 1186067

Ion Ratio Lower Upper

131 100

133 95.0 0.0 193.0

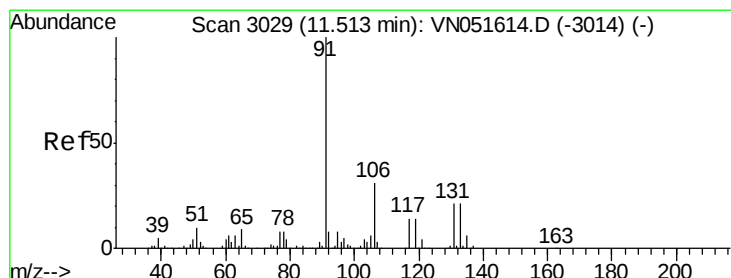
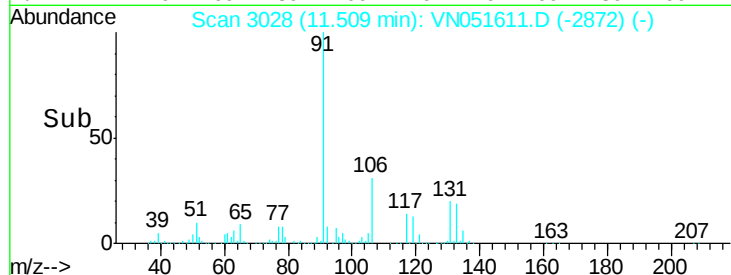
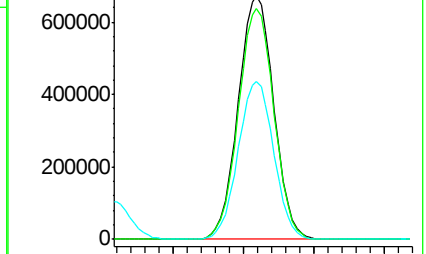
119 65.1 0.0 135.0



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: 161.169 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051611.D

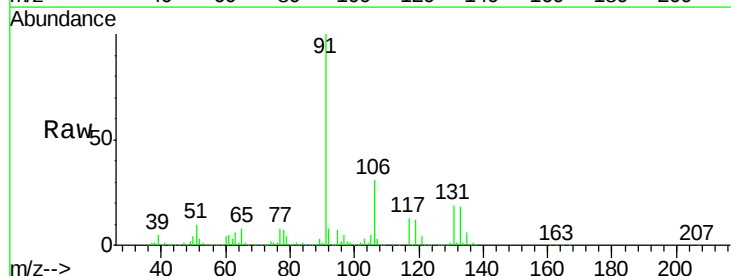
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 5670569

Ion Ratio Lower Upper

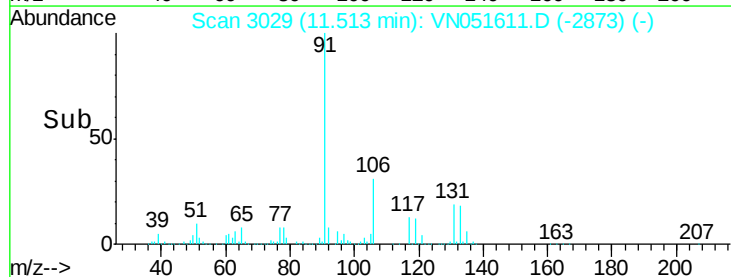
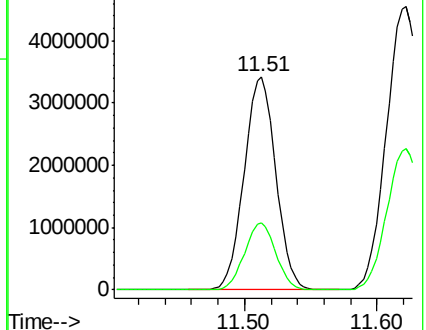
91 100

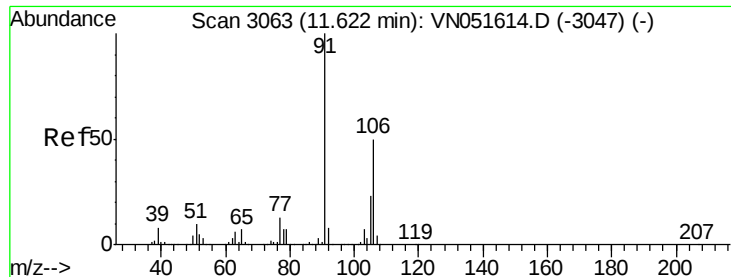
106 31.5 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

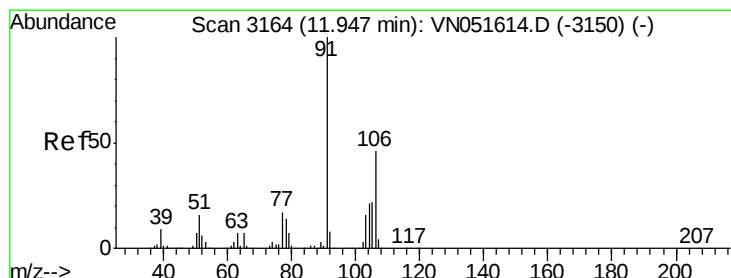
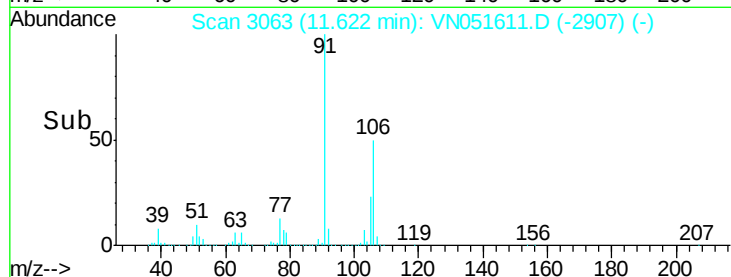
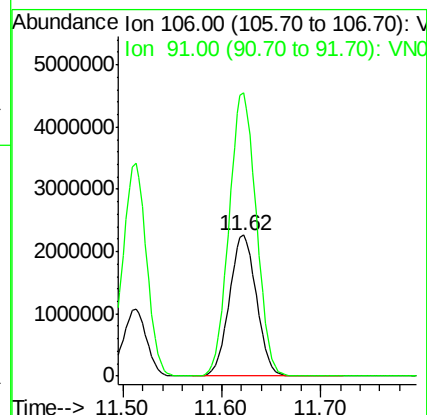
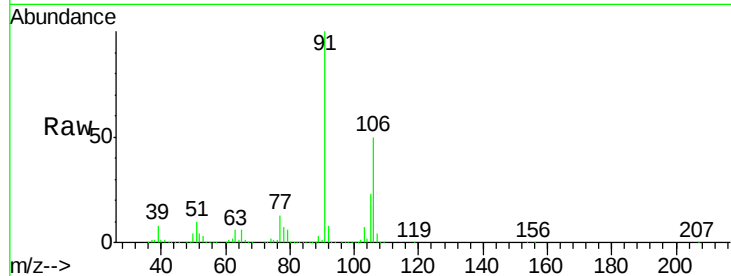




#67
m/p-Xylenes
Concen: 319.802 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

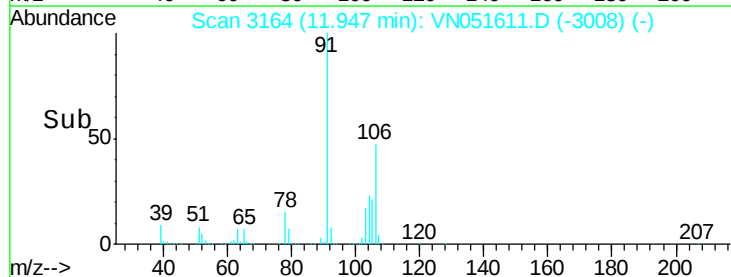
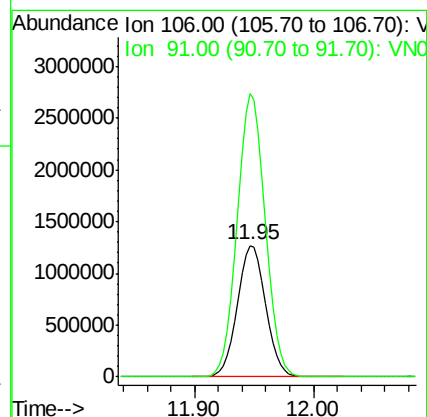
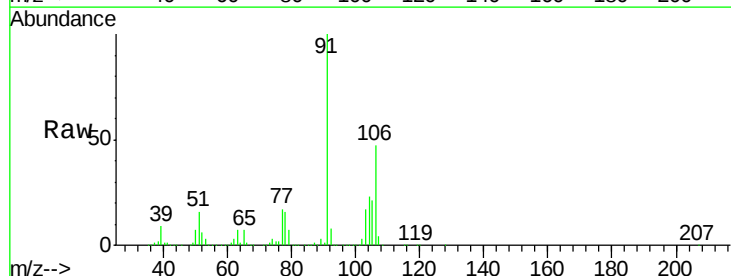
Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

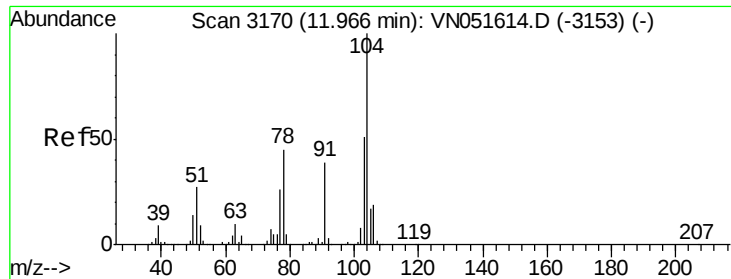
Tgt Ion:106 Resp: 4336528
Ion Ratio Lower Upper
106 100
91 202.2 161.5 242.3



#68
o-Xylene
Concen: 161.387 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion:106 Resp: 2089036
Ion Ratio Lower Upper
106 100
91 213.3 109.7 329.1

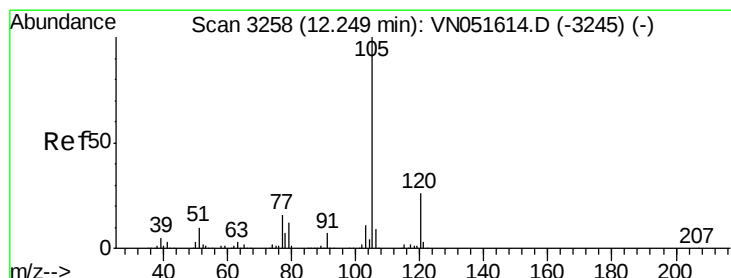
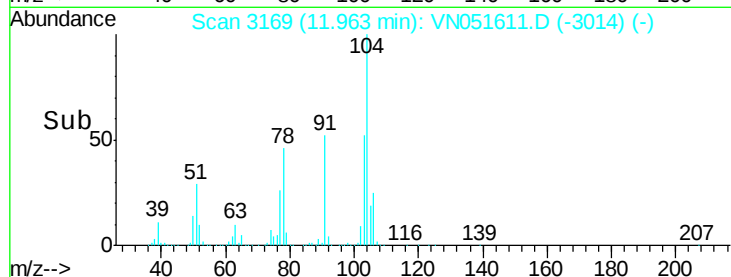
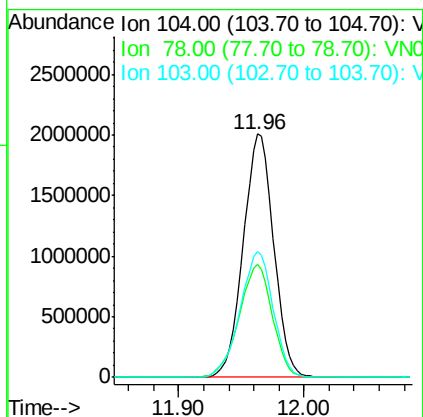
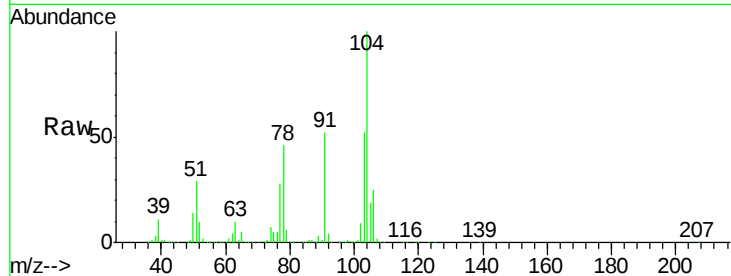




#69
Styrene
Concen: 167.389 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

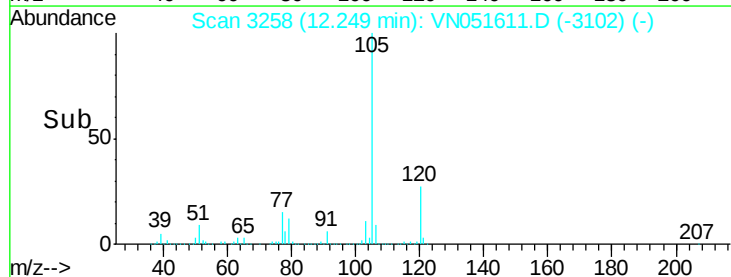
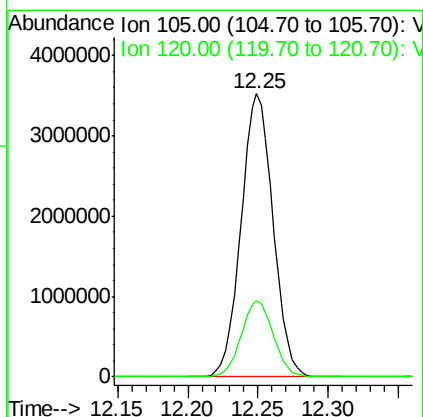
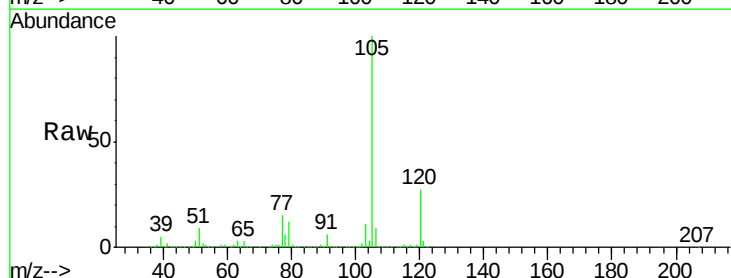
Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

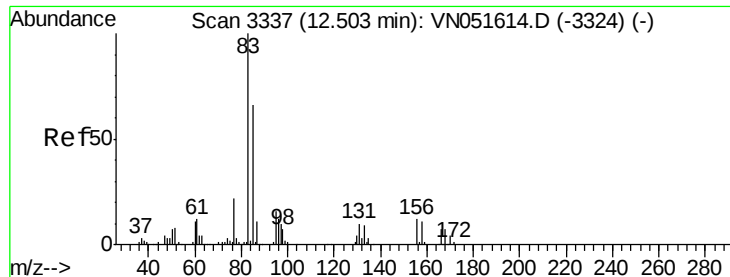
Tgt Ion:104 Resp: 3400897
Ion Ratio Lower Upper
104 100
78 50.6 40.3 60.5
103 55.8 45.7 68.5



#70
Isopropylbenzene
Concen: 161.728 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion:105 Resp: 5584261
Ion Ratio Lower Upper
105 100
120 26.8 18.7 34.7





#71

1,1,2,2-Tetrachloroethane

Concen: 149.381 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

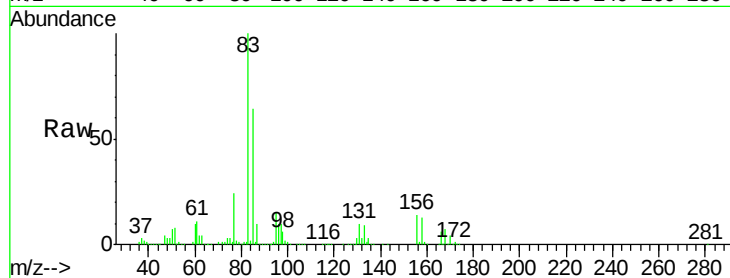
Tgt Ion: 83 Resp: 1247905

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.2	15.6
85	63.9	32.0	96.2

83 100

131 10.4 5.2 15.6

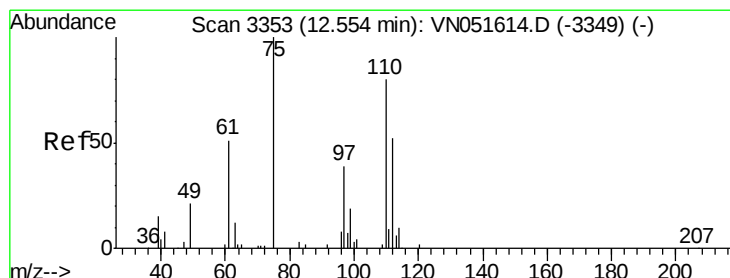
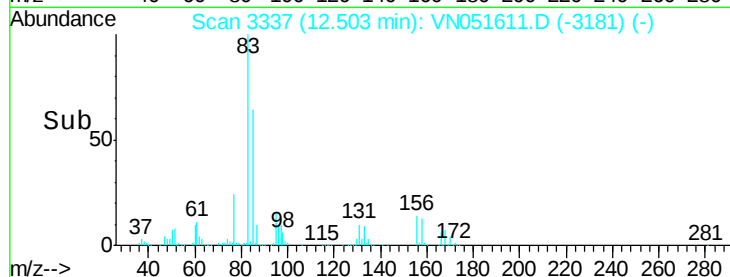
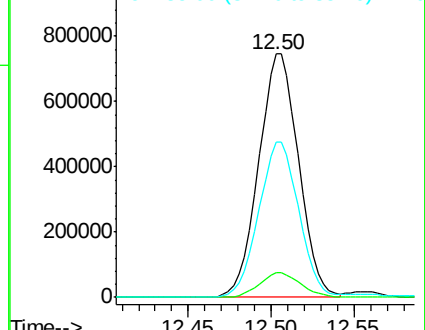
85 63.9 32.0 96.2



Abundance Ion 83.00 (82.70 to 83.70): VN051611.D (-3324) (-)

Ion 131.00 (130.70 to 131.70): VN051611.D (-3324) (-)

Ion 85.00 (84.70 to 85.70): VN051611.D (-3324) (-)



#72

1,2,3-Trichloropropane

Concen: 238.932 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051611.D

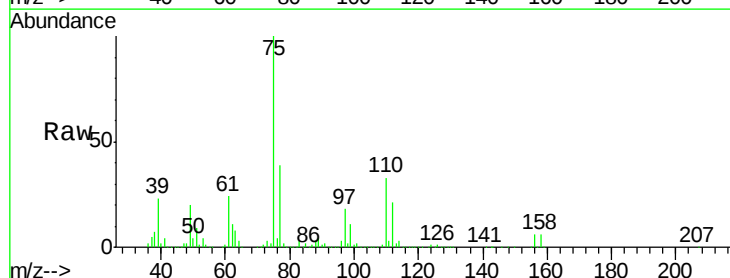
Acq: 28 Sep 2018 9:53

Tgt Ion: 75 Resp: 1644548

Ion	Ratio	Lower	Upper
75	100		
77	156.9	0.0	492.2

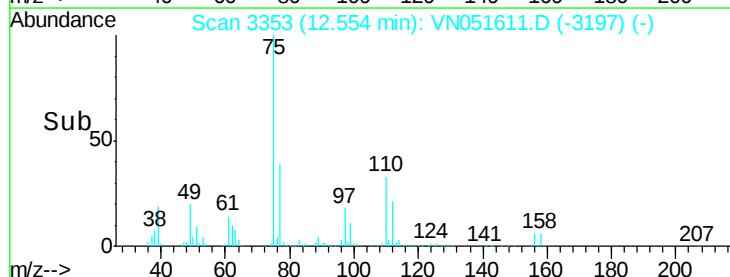
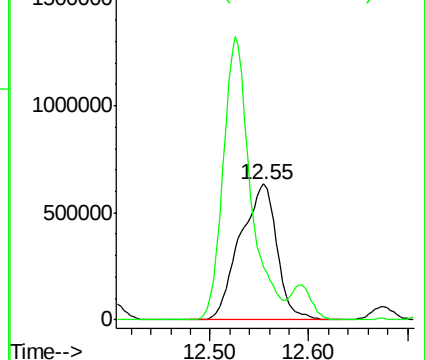
75 100

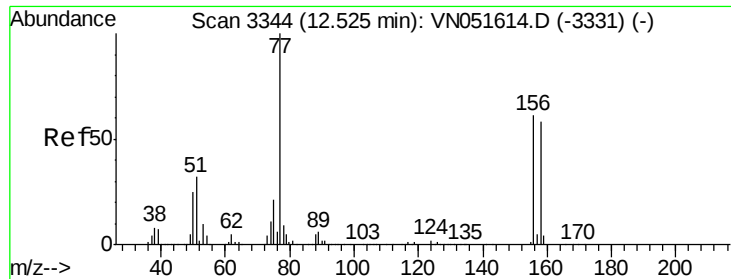
77 156.9 0.0 492.2



Abundance Ion 75.00 (74.70 to 75.70): VN051611.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN051611.D (-3349) (-)





#73

Bromobenzene

Concen: 159.923 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

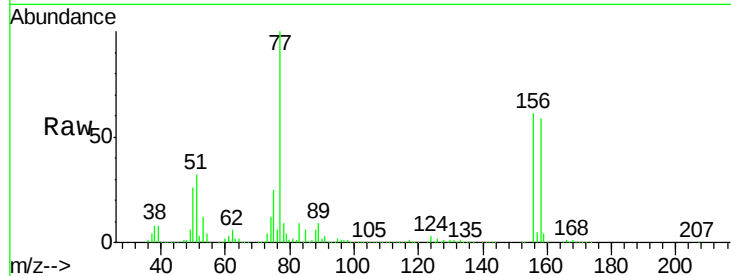
Tgt Ion:156 Resp: 1374175

Ion Ratio Lower Upper

156 100

77 187.8 0.0 385.2

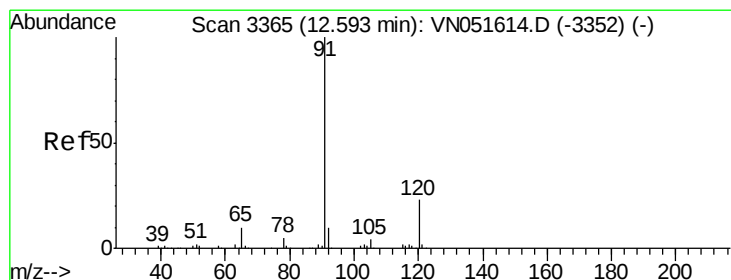
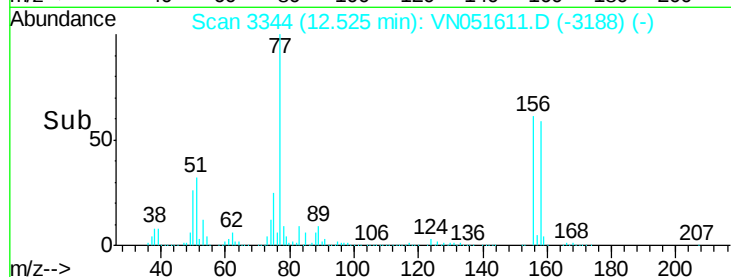
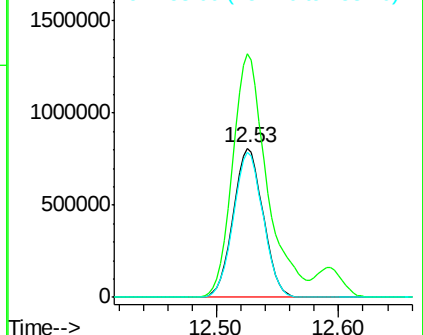
158 96.9 0.0 195.6



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 164.702 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051611.D

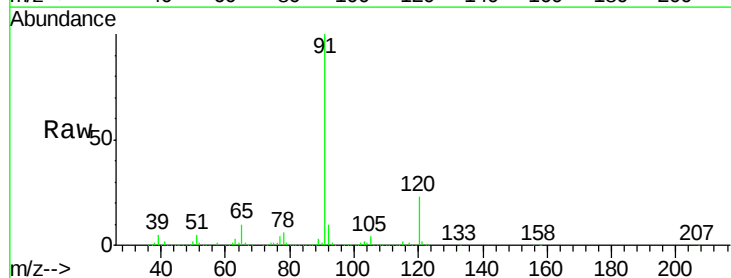
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 6620401

Ion Ratio Lower Upper

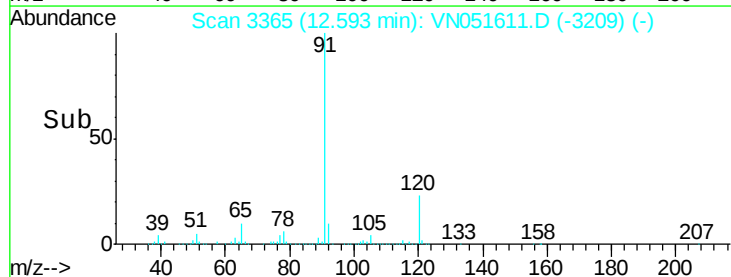
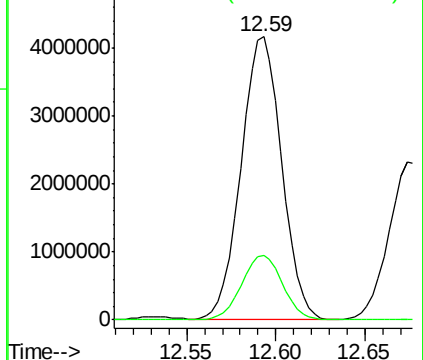
91 100

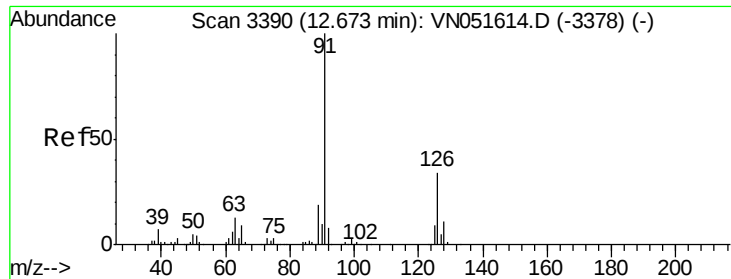
120 22.9 0.0 45.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 158.345 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

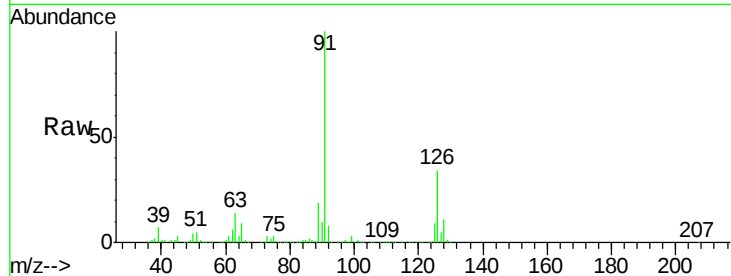
VSTDIC150

Tgt Ion: 91 Resp: 3800750

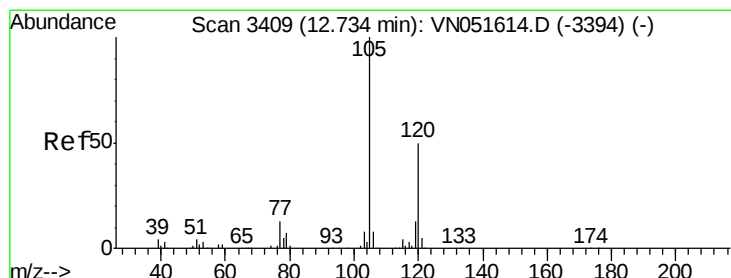
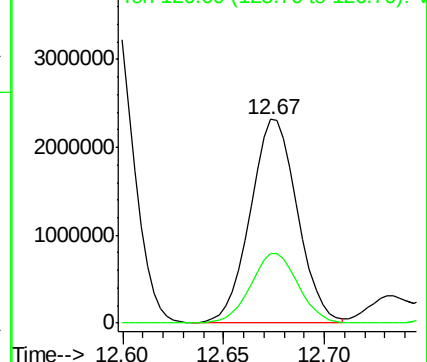
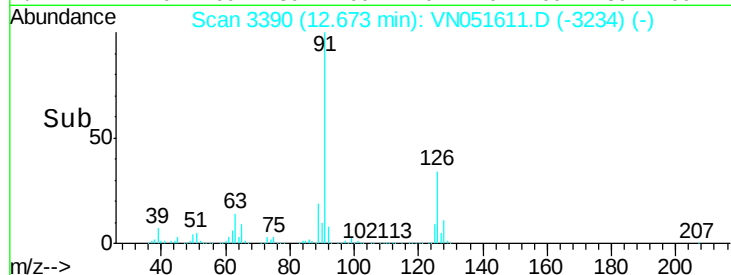
Ion Ratio Lower Upper

91 100

126 34.5 0.0 69.2



Abundance Ion 91.00 (90.70 to 91.70): VN051611.D (-3234) (-)



#76

1,3,5-Trimethylbenzene

Concen: 161.234 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051611.D

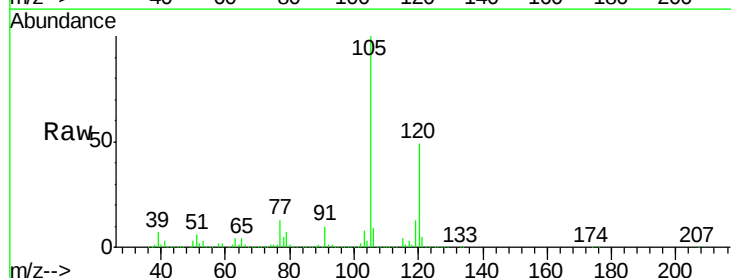
Acq: 28 Sep 2018 9:53

Tgt Ion: 105 Resp: 4651890

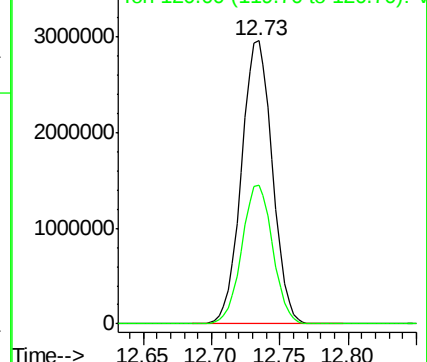
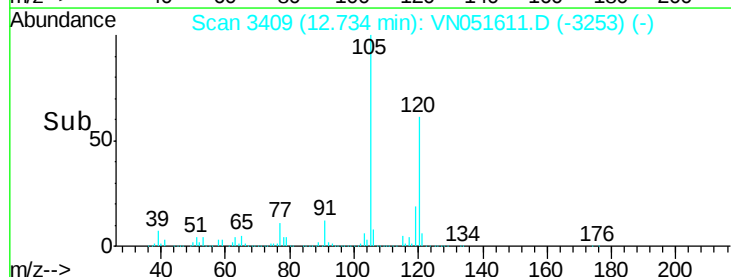
Ion Ratio Lower Upper

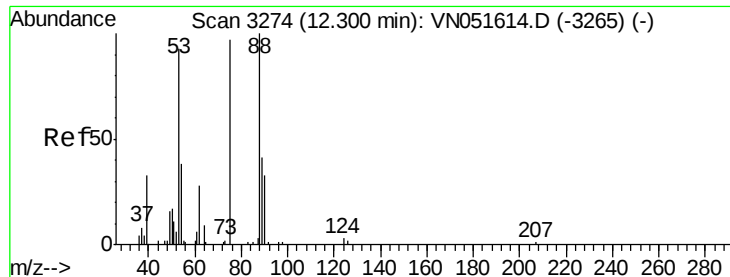
105 100

120 49.0 0.0 99.8



Abundance Ion 105.00 (104.70 to 105.70): VN051611.D (-3253) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 181.143 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

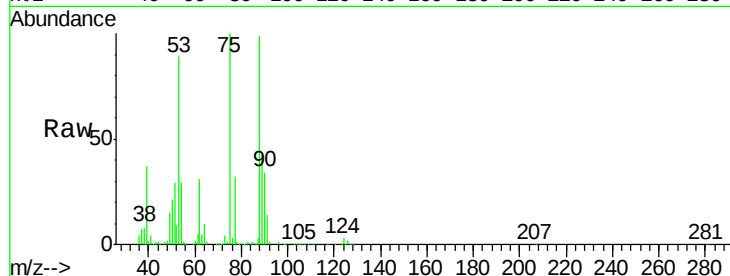
Tgt Ion: 75 Resp: 409754

Ion Ratio Lower Upper

75 100

53 88.6 48.1 144.4

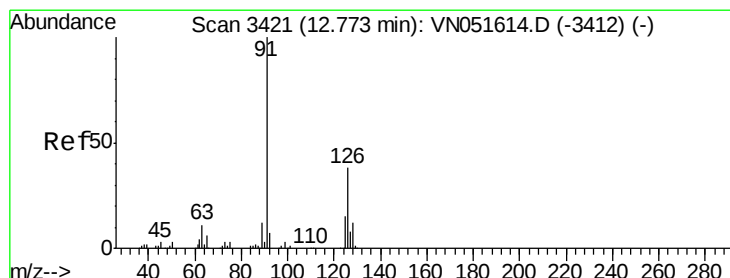
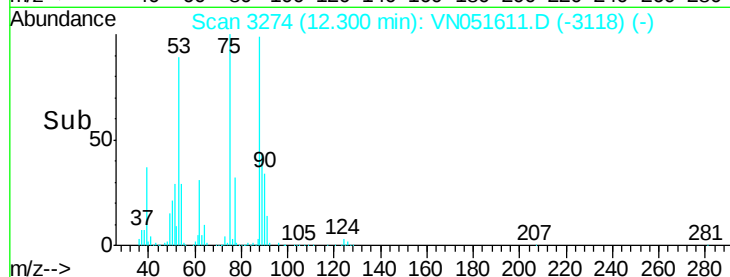
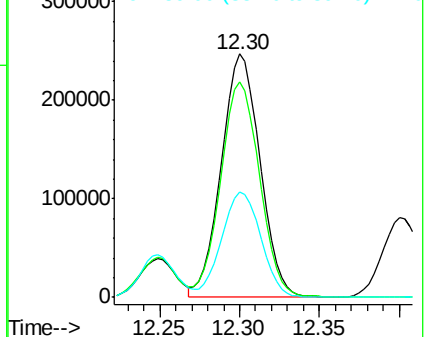
89 43.2 22.4 67.3



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 165.118 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN051611.D

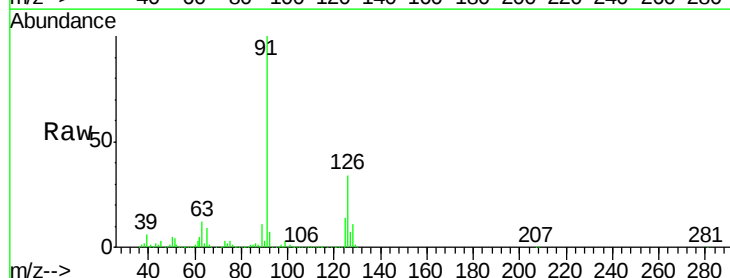
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 3914942

Ion Ratio Lower Upper

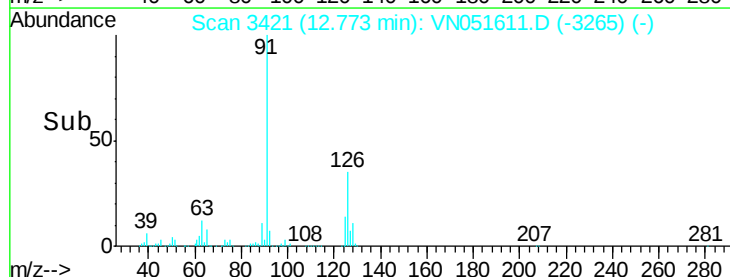
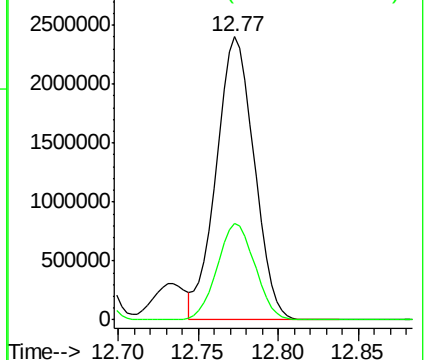
91 100

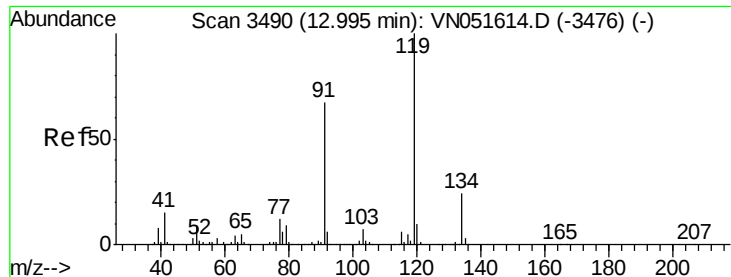
126 33.9 0.0 68.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V

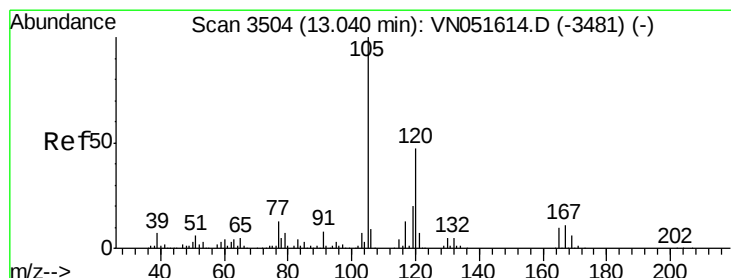
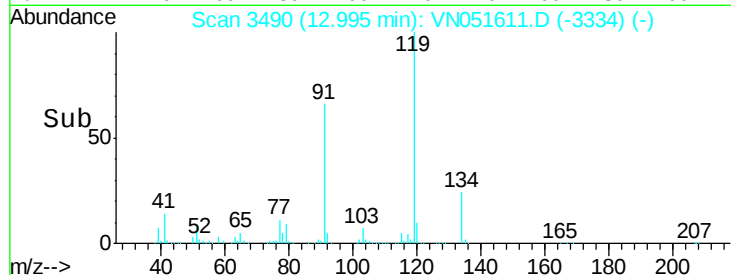
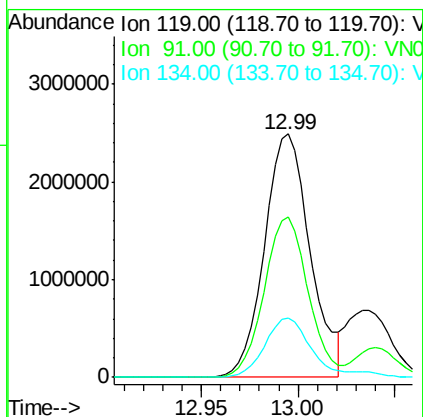
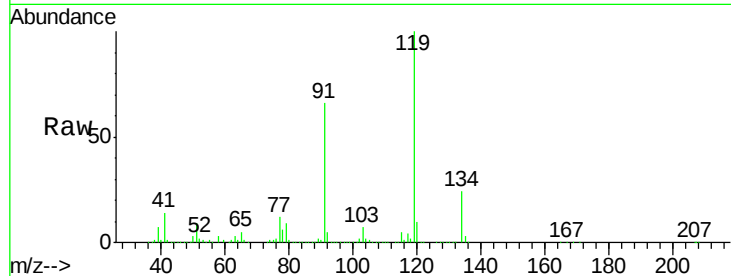




#79
tert-butylbenzene
Concen: 164.003 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

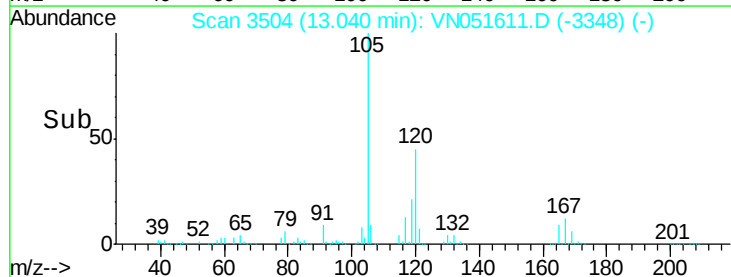
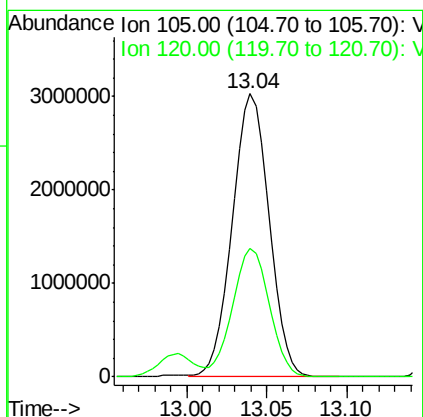
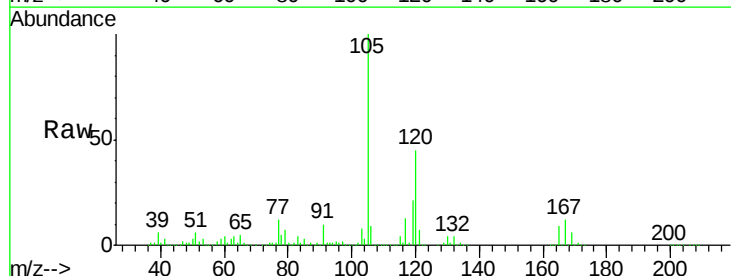
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

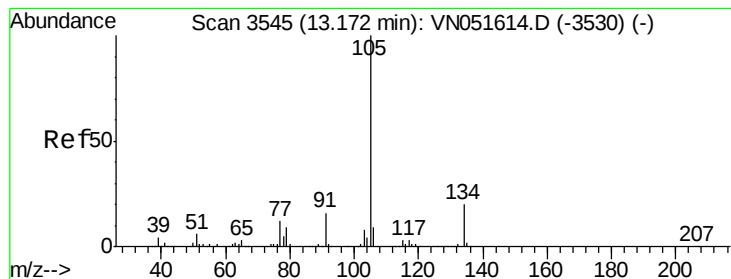
Tgt Ion:119 Resp: 4099448
Ion Ratio Lower Upper
119 100
91 63.8 0.0 132.4
134 23.9 0.0 48.4



#80
1,2,4-Trimethylbenzene
Concen: 164.606 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion:105 Resp: 4743538
Ion Ratio Lower Upper
105 100
120 45.5 0.0 91.6





#81

sec-Butylbenzene

Concen: 164.290 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

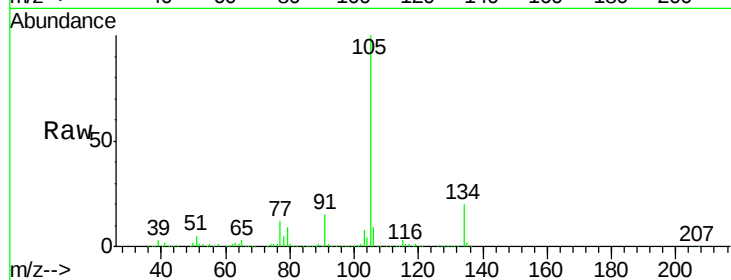
VSTDIC150

Tgt Ion:105 Resp: 5672678

Ion Ratio Lower Upper

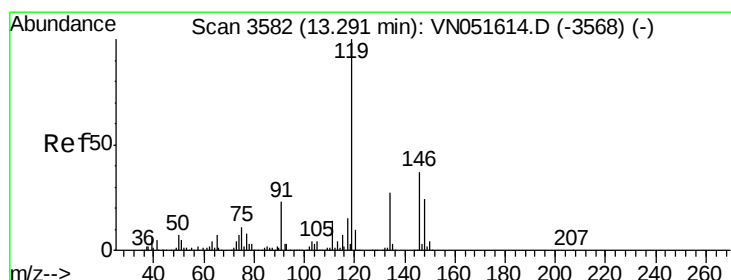
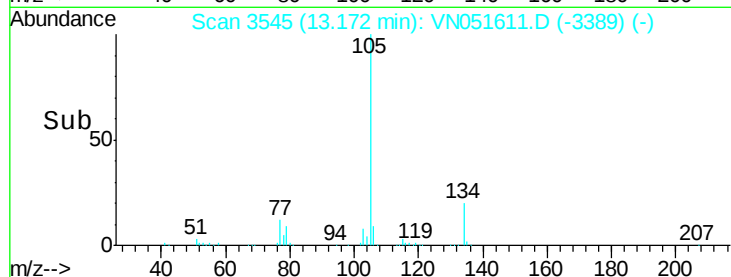
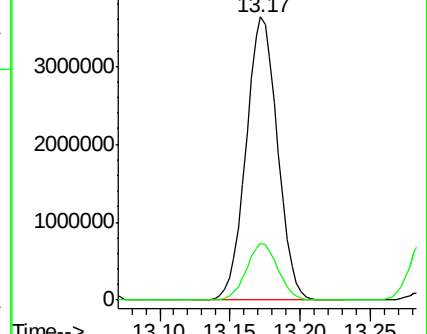
105 100

134 20.1 0.0 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 169.752 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

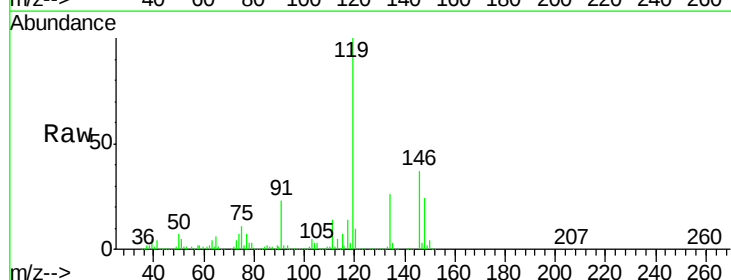
Tgt Ion:119 Resp: 5009544

Ion Ratio Lower Upper

119 100

134 26.3 0.0 52.0

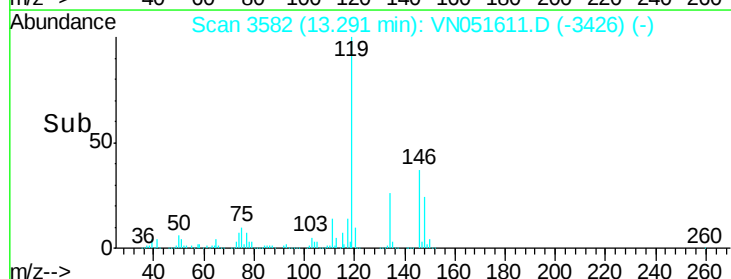
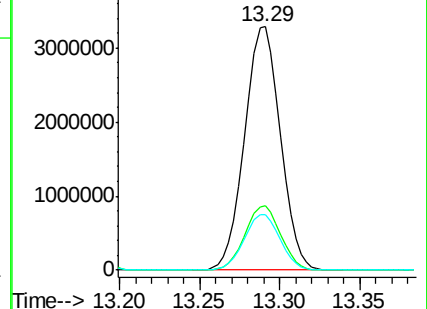
91 22.8 0.0 46.0

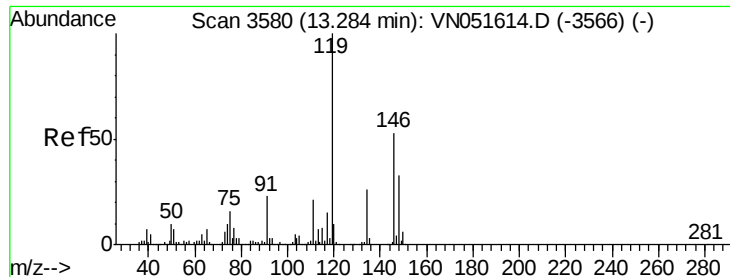


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#83

1,3-Dichlorobenzene

Concen: 166.399 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

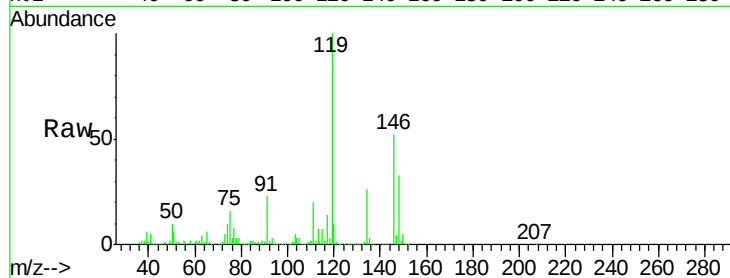
Tgt Ion:146 Resp: 2491472

Ion Ratio Lower Upper

146 100

111 39.1 19.9 59.6

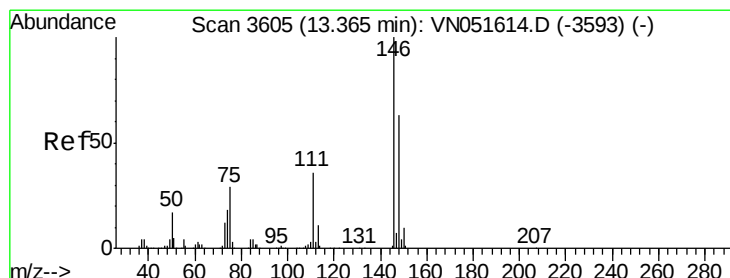
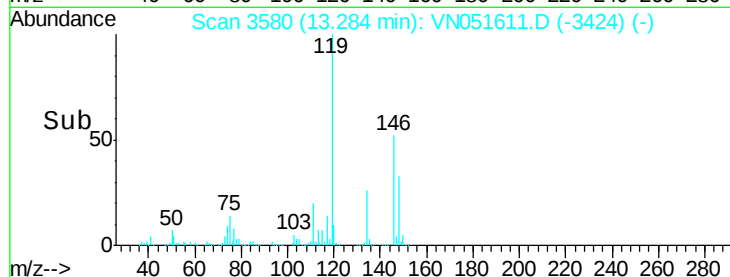
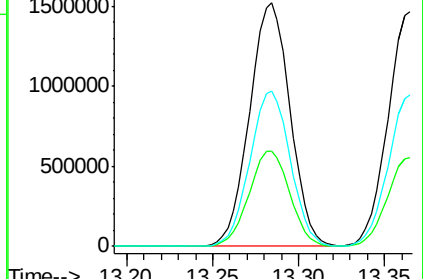
148 63.6 32.4 97.2



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: 170.949 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

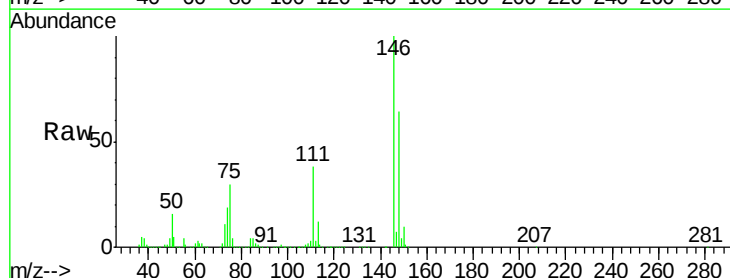
Tgt Ion:146 Resp: 2406030

Ion Ratio Lower Upper

146 100

111 37.7 18.6 55.8

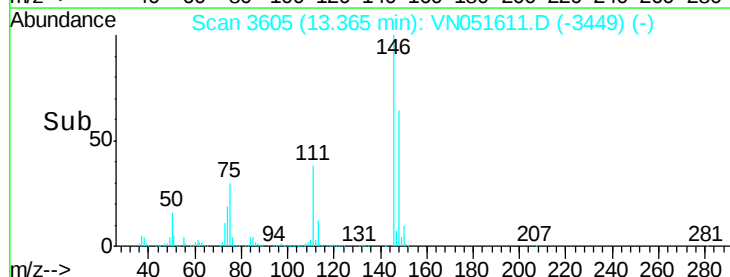
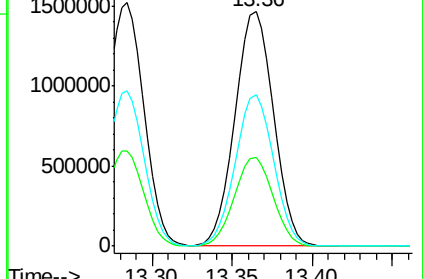
148 64.2 32.1 96.5

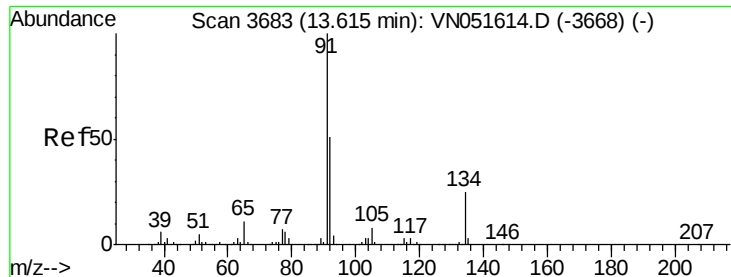


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

n-Butylbenzene

Concen: 183.230 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

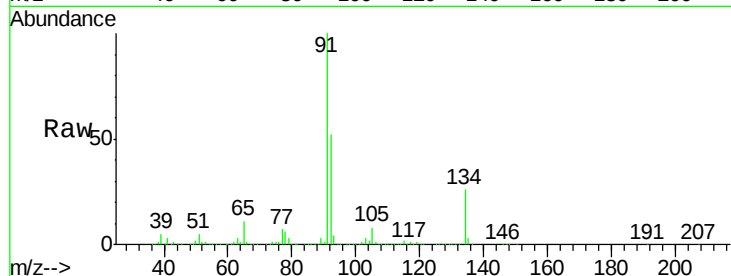
Tgt Ion: 91 Resp: 4438364

Ion Ratio Lower Upper

91 100

92 52.2 0.0 101.6

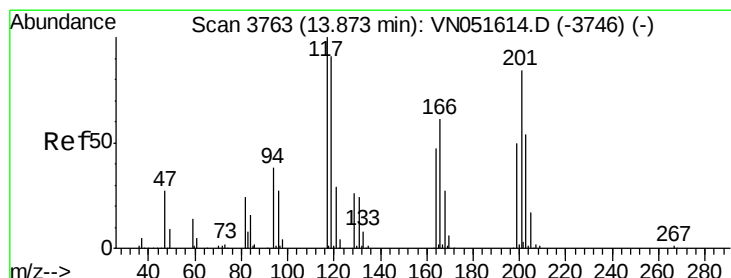
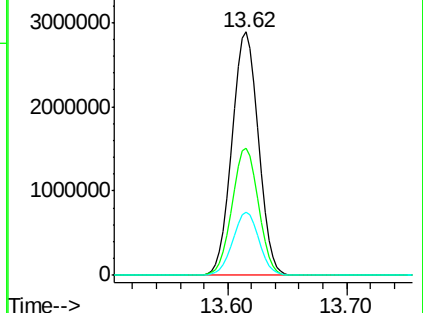
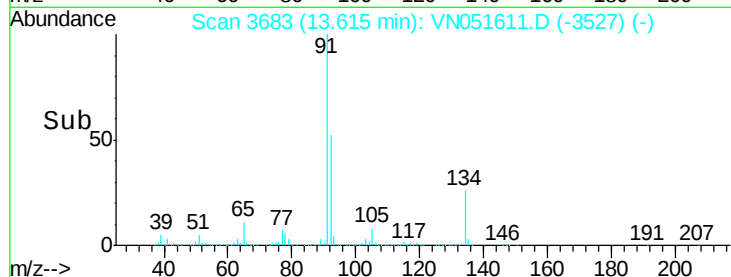
134 25.7 0.0 50.6



Abundance Ion 91.00 (90.70 to 91.70): VN051611.D (-3527) (-)

Ion 92.00 (91.70 to 92.70): VN051611.D (-3527) (-)

Ion 134.00 (133.70 to 134.70): VN051611.D (-3527) (-)



#86

Hexachloroethane

Concen: 156.801 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN051611.D

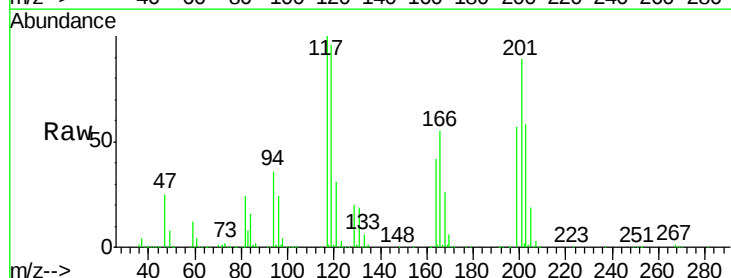
Acq: 28 Sep 2018 9:53

Tgt Ion: 117 Resp: 925522

Ion Ratio Lower Upper

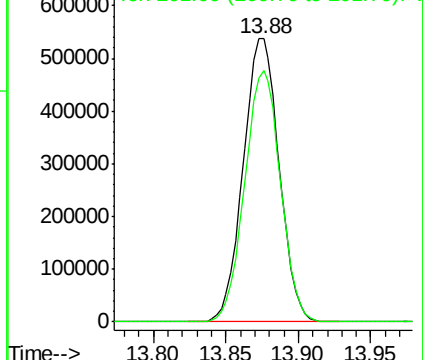
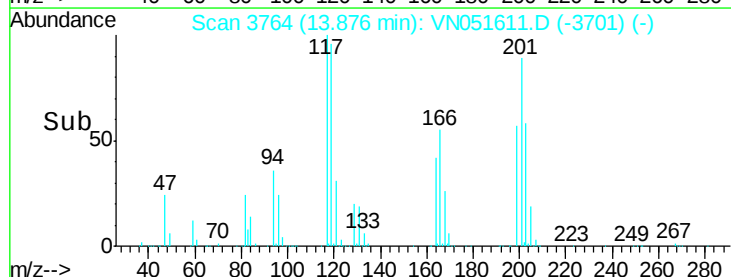
117 100

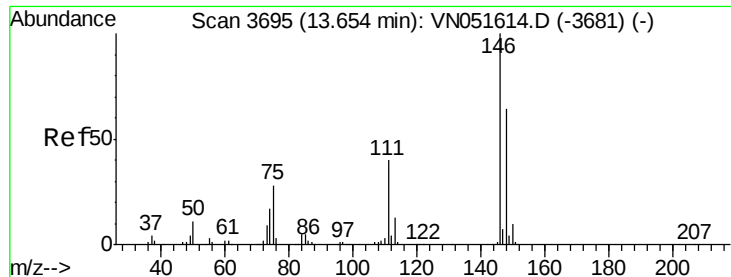
201 88.3 42.9 128.5



Abundance Ion 117.00 (116.70 to 117.70): VN051611.D (-3701) (-)

Ion 201.00 (200.70 to 201.70): VN051611.D (-3701) (-)

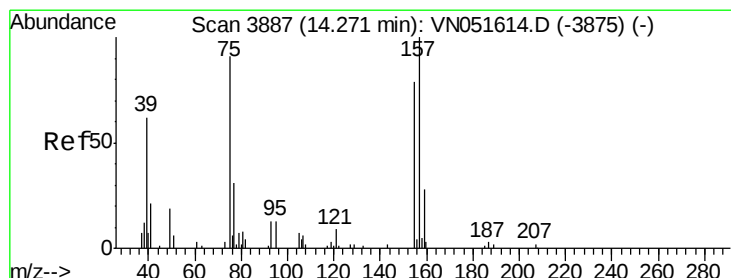
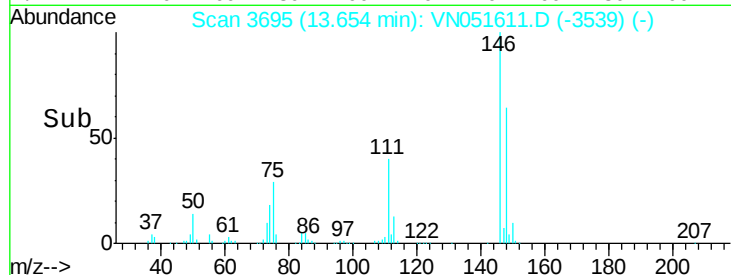
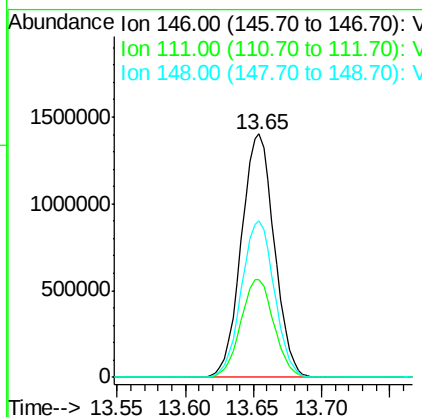
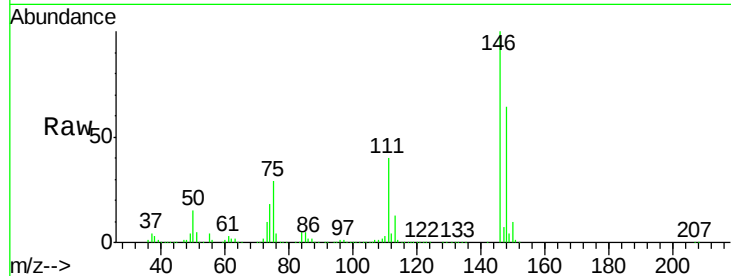




#87
 1,2-Dichlorobenzene
 Concen: 160.180 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

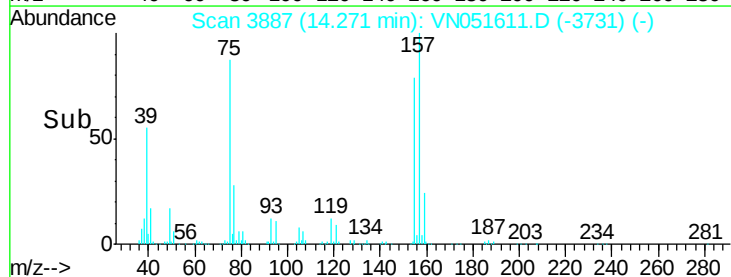
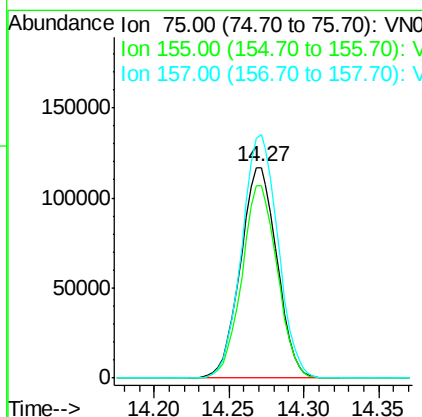
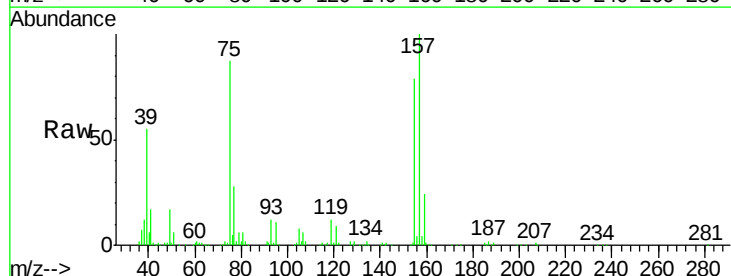
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

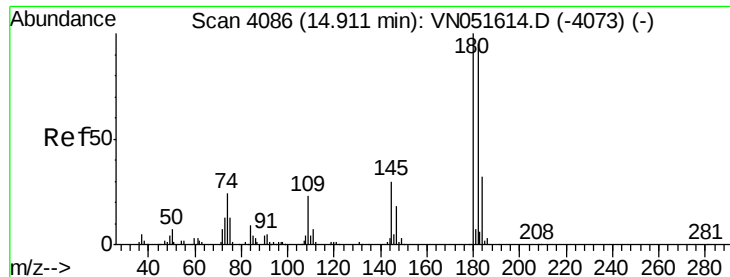
Tgt Ion: 146 Resp: 2346175
 Ion Ratio Lower Upper
 146 100
 111 40.3 20.1 60.3
 148 64.2 32.1 96.5



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 163.252 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 75 Resp: 198770
 Ion Ratio Lower Upper
 75 100
 155 88.8 67.1 100.7
 157 114.4 85.8 128.6

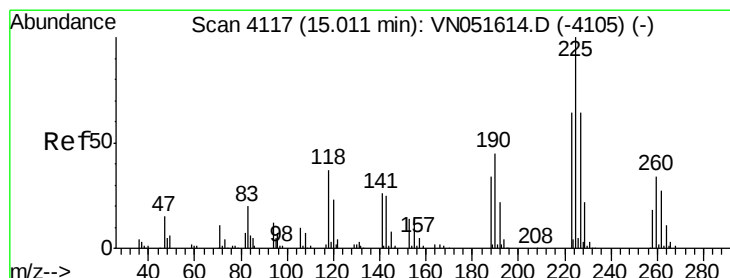
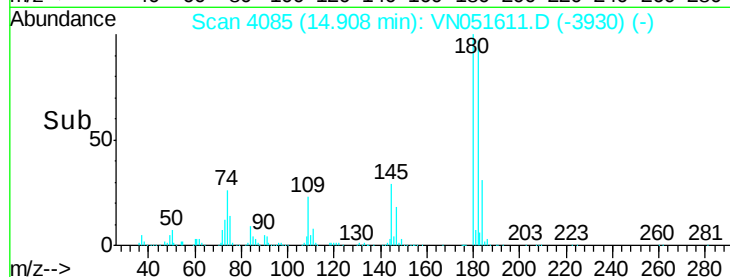
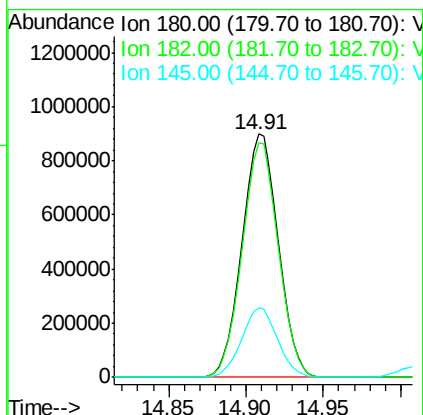
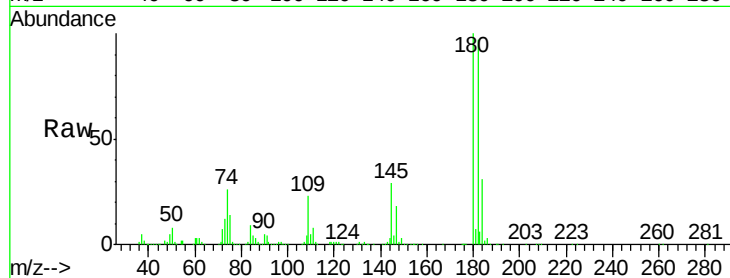




#89
 1,2,4-Trichlorobenzene
 Concen: 214.339 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

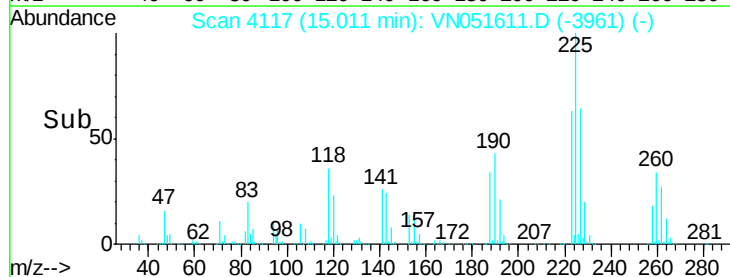
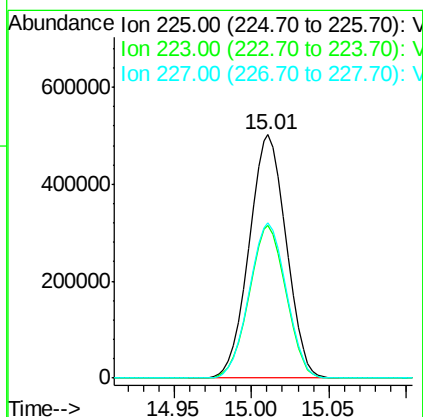
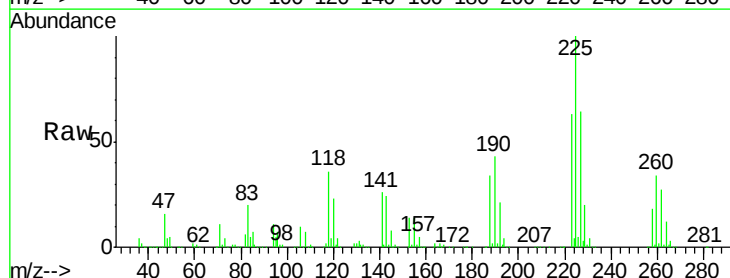
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

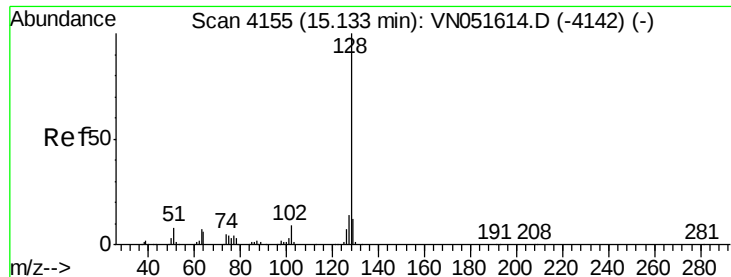
Tgt Ion:180 Resp: 1469409
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.2 112.8
 145 28.3 22.9 34.3



#90
 Hexachlorobutadiene
 Concen: 149.865 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion:225 Resp: 837595
 Ion Ratio Lower Upper
 225 100
 223 62.2 0.0 131.0
 227 64.0 0.0 129.0

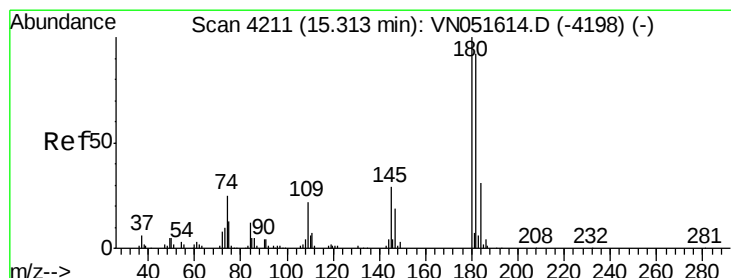
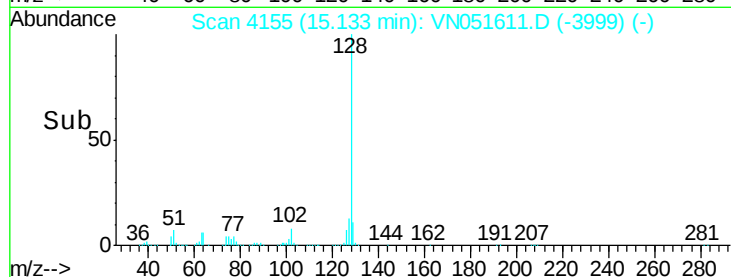
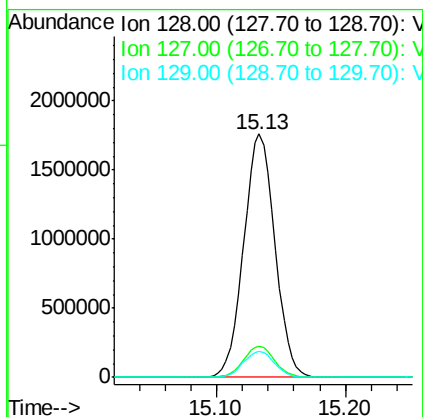
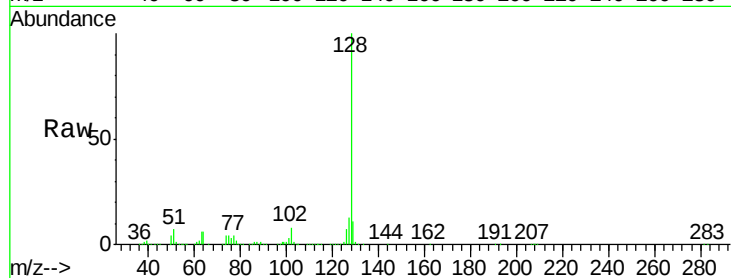




#91
Naphthalene
Concen: 230.321 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:128 Resp: 2965274
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 10.7 9.1 13.7



#92
1,2,3-Trichlorobenzene
Concen: 199.356 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion:180 Resp: 1374529
Ion Ratio Lower Upper
180 100
182 95.1 0.0 191.8
145 30.0 0.0 60.4

