

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121718\
 Data File : VN052915.D
 Acq On : 17 Dec 2018 9:35
 Operator : MD\SY
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Quant Time: Dec 18 04:41:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1166985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1739843	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1595359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	746351	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	576726	46.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.96%	
35) Dibromofluoromethane	7.59	113	392593	40.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.84%	
50) Toluene-d8	10.09	98	2110136	50.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.22%	
62) 4-Bromofluorobenzene	12.40	95	746806	52.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	594506	49.489	ug/l	100
3) Chloromethane	2.06	50	705714	48.947	ug/l	99
4) Vinyl Chloride	2.19	62	707063	49.019	ug/l	99
5) Bromomethane	2.57	94	431228	48.470	ug/l	100
6) Chloroethane	2.71	64	423153	49.631	ug/l	99
7) Trichlorofluoromethane	3.02	101	884124	49.439	ug/l	99
8) Diethyl Ether	3.41	74	326686	50.079	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	570479	51.472	ug/l	99
10) Methyl Iodide	3.96	142	780131	50.261	ug/l	100
11) Tert butyl alcohol	4.77	59	157597	227.306	ug/l	98
12) 1,1-Dichloroethene	3.74	96	523468	48.789	ug/l	98
13) Acrolein	3.61	56	83786	128.354	ug/l	97
14) Allyl chloride	4.33	41	858932	49.013	ug/l	98
15) Acrylonitrile	4.98	53	949751	244.176	ug/l	99
16) Acetone	3.81	43	474248	170.174	ug/l	100
17) Carbon Disulfide	4.06	76	1658747	50.326	ug/l	99
18) Methyl Acetate	4.32	43	496690	48.563	ug/l	99
19) Methyl tert-butyl Ether	5.04	73	1415856	48.609	ug/l	100
20) Methylene Chloride	4.55	84	602961	48.078	ug/l	100
21) trans-1,2-Dichloroethene	5.04	96	560977	48.260	ug/l	99
22) Diisopropyl ether	5.95	45	1865313	49.893	ug/l	97
23) Vinyl Acetate	5.89	43	5105020	229.478	ug/l	100
24) 1,1-Dichloroethane	5.85	63	1057242	49.038	ug/l	100
25) 2-Butanone	6.83	43	898058	207.683	ug/l	100
26) 2,2-Dichloropropane	6.82	77	830009	52.278	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	646590	49.011	ug/l	98
28) Bromochloromethane	7.19	49	485802	50.180	ug/l	100
29) Tetrahydrofuran	7.21	42	706763	239.414	ug/l	100
30) Chloroform	7.37	83	1037903	49.367	ug/l	99
31) Cyclohexane	7.65	56	1035909	49.257	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	880821	50.074	ug/l	99
36) 1,1-Dichloropropene	7.79	75	835468	52.146	ug/l	100
37) Ethyl Acetate	6.92	43	466202	48.438	ug/l	99
38) Carbon Tetrachloride	7.77	117	791570	53.676	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	1055943	53.707	ug/l	99
40) Benzene	8.04	78	2455319	51.060	ug/l	99
41) Methacrylonitrile	7.17	41	284505	53.349	ug/l	94
42) 1,2-Dichloroethane	8.12	62	732549	50.602	ug/l	100
43) Isopropyl Acetate	8.16	43	851409	43.145	ug/l	97
44) Trichloroethene	8.83	130	727329	55.997	ug/l	99
45) 1,2-Dichloropropane	9.12	63	649950	51.603	ug/l	100
46) Dibromomethane	9.21	93	369344	50.564	ug/l	100
47) Bromodichloromethane	9.40	83	818557	54.040	ug/l	99
48) Methyl methacrylate	9.20	41	442949	51.184	ug/l	99
49) 1,4-Dioxane	9.20	88	100895	1027.130	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	2270980	250.975	ug/l	100
52) Toluene	10.16	92	1542985	52.979	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	855577	56.131	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	985078	54.235	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	532587	51.227	ug/l	99
56) Ethyl methacrylate	10.43	69	685338	51.366	ug/l	100
57) 1,3-Dichloropropane	10.71	76	926145	51.948	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1843024	247.561	ug/l	100
59) 2-Hexanone	10.75	43	1458970	235.273	ug/l	100
60) Dibromochloromethane	10.90	129	622463	55.398	ug/l	100
61) 1,2-Dibromoethane	11.00	107	537362	52.290	ug/l	100
64) Tetrachloroethene	10.63	164	916739	66.858	ug/l	99
65) Chlorobenzene	11.43	112	1706925	51.572	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	605447	52.597	ug/l	100
67) Ethyl Benzene	11.51	91	2993253	52.662	ug/l	100
68) m/p-Xylenes	11.62	106	2268238	106.277	ug/l	100
69) o-Xylene	11.95	106	1087486	52.181	ug/l	98
70) Styrene	11.96	104	1828836	54.589	ug/l	99
71) Bromoform	12.13	173	434437	55.553	ug/l #	100
73) Isopropylbenzene	12.25	105	2944910	52.847	ug/l	100
74) N-amyl acetate	12.07	43	779198	50.932	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	485358	38.863	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	834951	75.825	ug/l #	100
77) Bromobenzene	12.53	156	742168	52.363	ug/l	99
78) n-propylbenzene	12.59	91	3434175	54.036	ug/l	100
79) 2-Chlorotoluene	12.67	91	1960444	52.178	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	2361362	52.493	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	202821	59.170	ug/l #	75
82) 4-Chlorotoluene	12.77	91	2017797	52.526	ug/l	100
83) tert-Butylbenzene	12.99	119	2044655	51.526	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2393887	52.566	ug/l	99
85) sec-Butylbenzene	13.17	105	2857067	53.164	ug/l	100
86) p-Isopropyltoluene	13.29	119	2481920	53.307	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	1292155	51.302	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	1279307	51.289	ug/l	100
89) n-Butylbenzene	13.62	91	2159434	55.094	ug/l	100
90) Hexachloroethane	13.88	117	405477	52.009	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	1198705	49.475	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	92914	49.355	ug/l	97

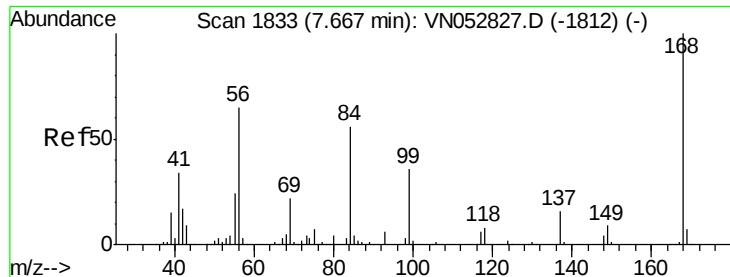
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	668275	50.741	ug/l	99
94) Hexachlorobutadiene	15.01	225	357730	46.927	ug/l	99
95) Naphthalene	15.13	128	1397532	51.234	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	590624	48.874	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

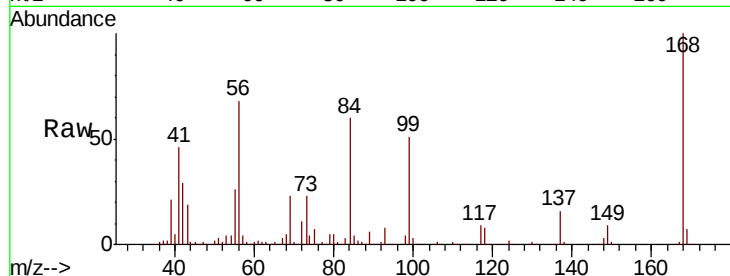
BFB

Tot Ion:168 Resp: 1166985

Ion Ratio Lower Upper

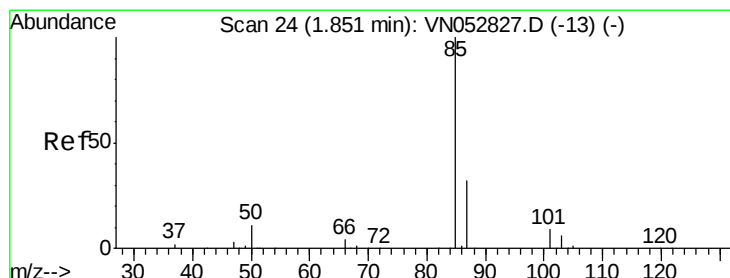
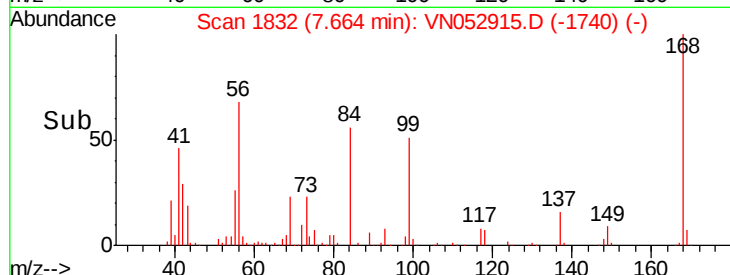
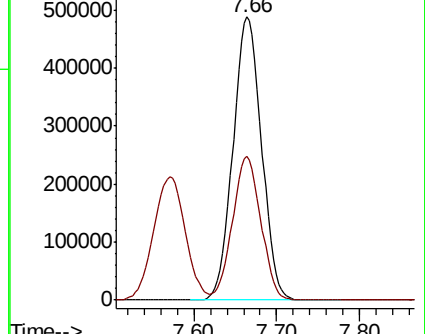
168 100

99 50.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 49.489 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052915.D

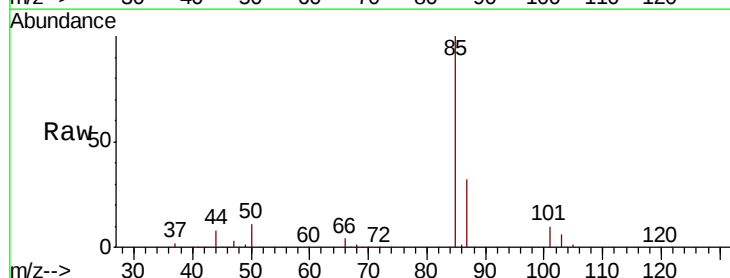
Acq: 17 Dec 2018 9:35

Tgt Ion: 85 Resp: 594506

Ion Ratio Lower Upper

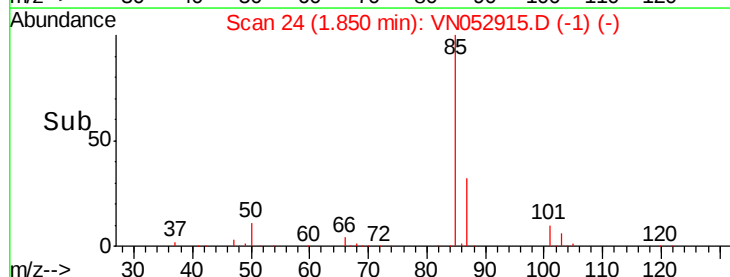
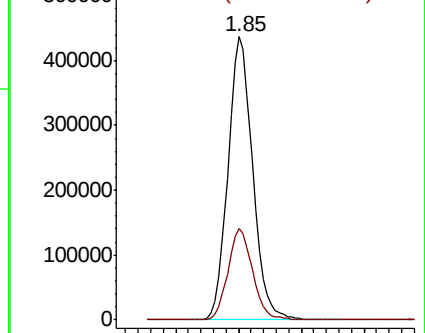
85 100

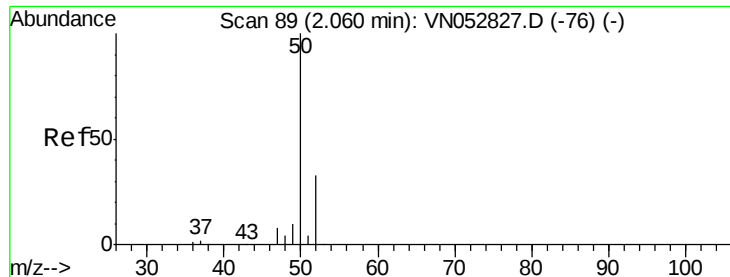
87 32.3 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 48.947 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

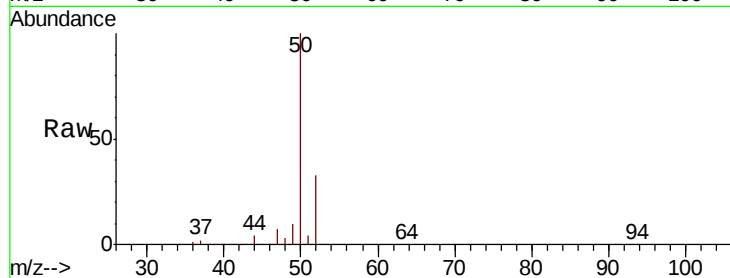
BFB

Tot Ion: 50 Resp: 705714

Ion Ratio Lower Upper

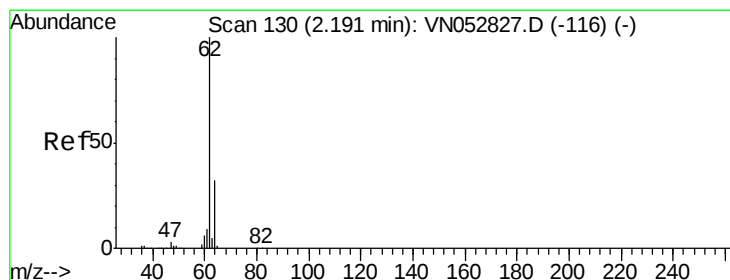
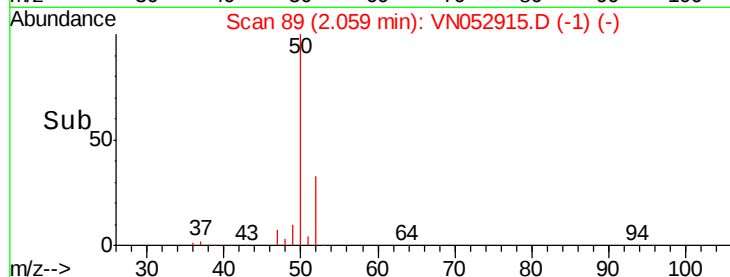
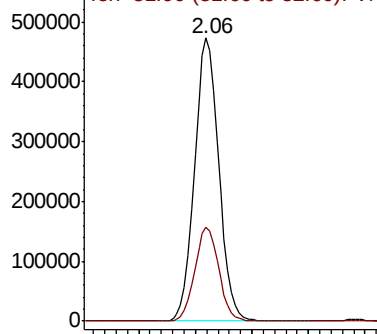
50 100

52 33.2 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 49.019 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052915.D

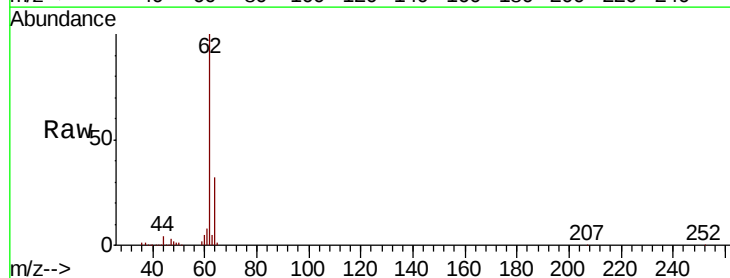
Acq: 17 Dec 2018 9:35

Tgt Ion: 62 Resp: 707063

Ion Ratio Lower Upper

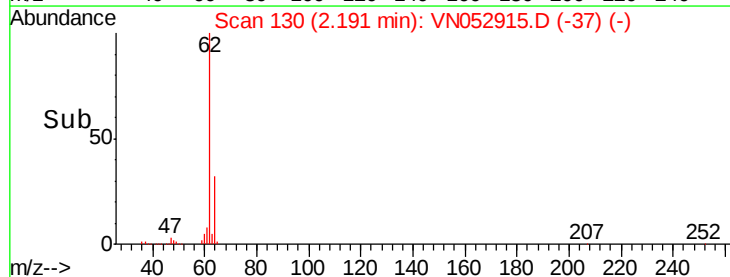
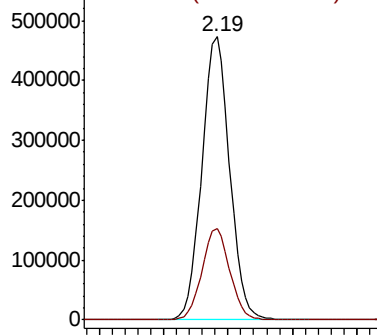
62 100

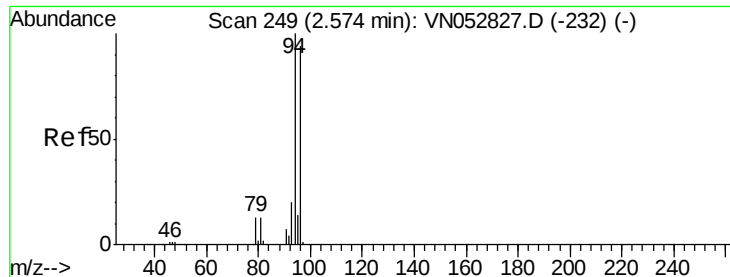
64 32.3 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 48.470 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

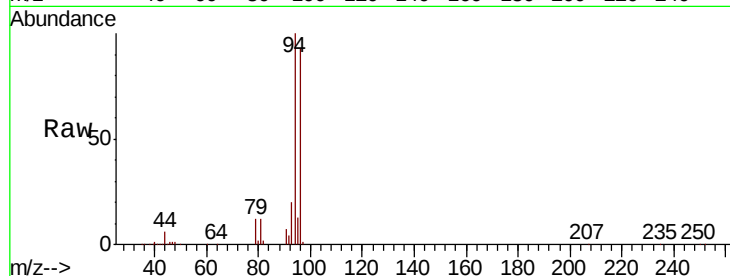
BFB

Tot Ion: 94 Resp: 431228

Ion Ratio Lower Upper

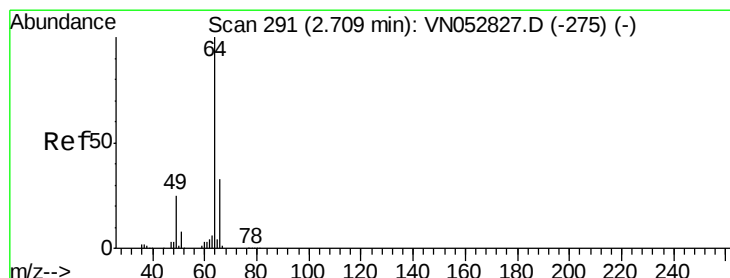
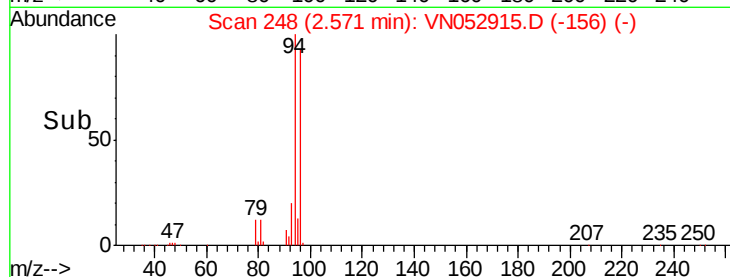
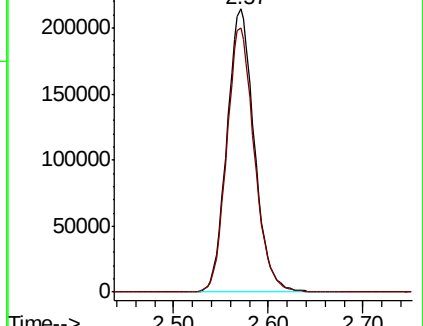
94 100

96 93.4 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VN052827.D (-232) (-)

Ion 95.90 (95.60 to 96.60): VN052827.D (-232) (-)



#6

Chloroethane

Concen: 49.631 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN052915.D

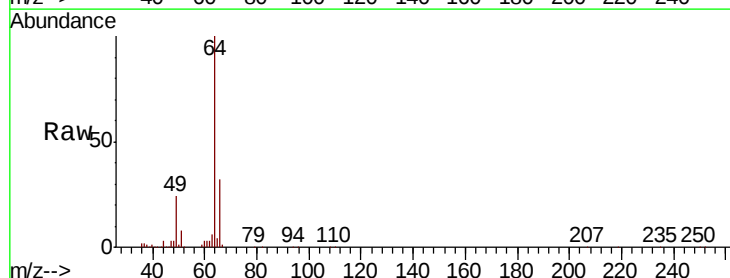
Acq: 17 Dec 2018 9:35

Tgt Ion: 64 Resp: 423153

Ion Ratio Lower Upper

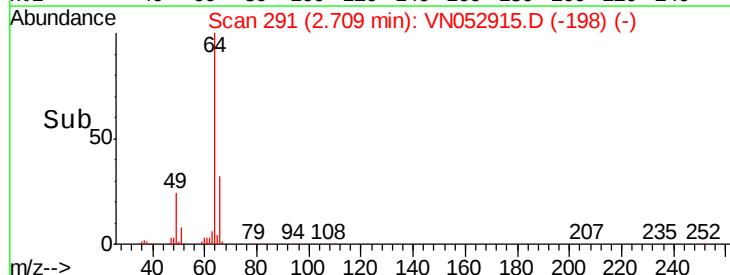
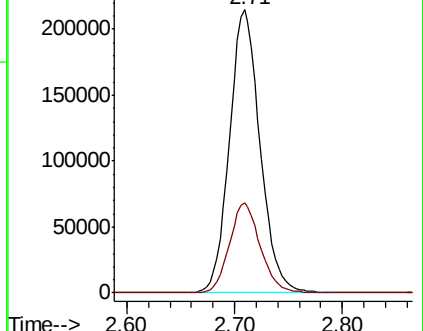
64 100

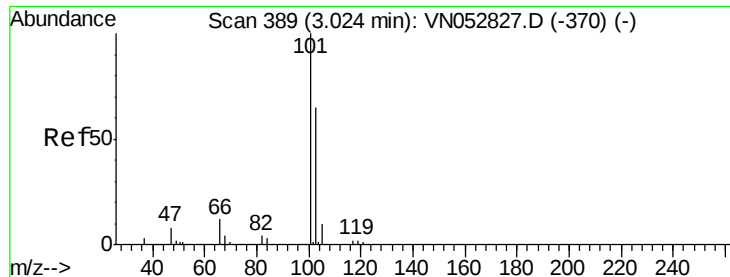
66 31.9 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN052827.D (-275) (-)

Ion 65.90 (65.60 to 66.60): VN052827.D (-275) (-)



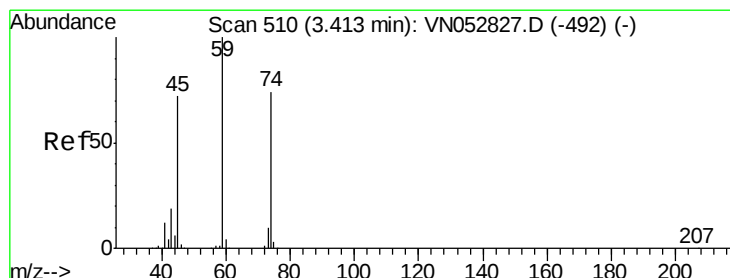
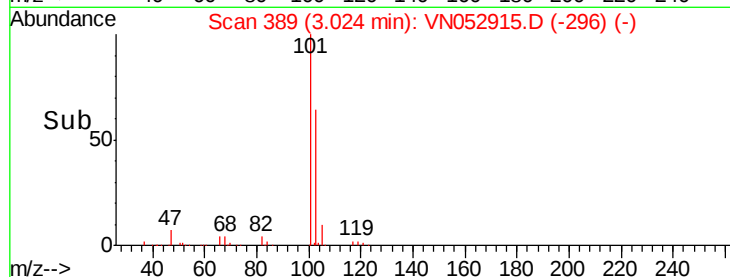
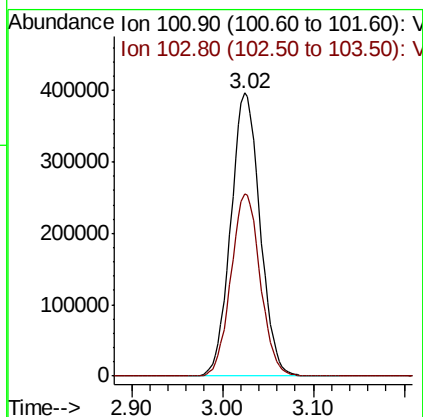
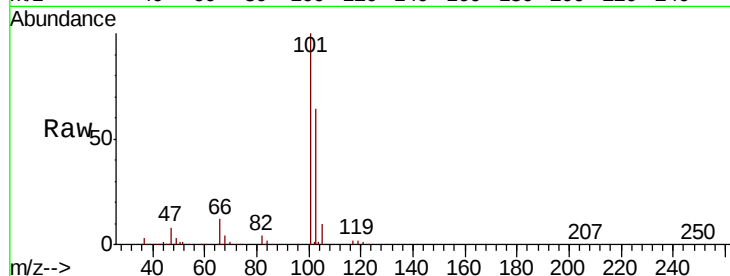


#7

Trichlorofluoromethane
 Concen: 49.439 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
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 BFB

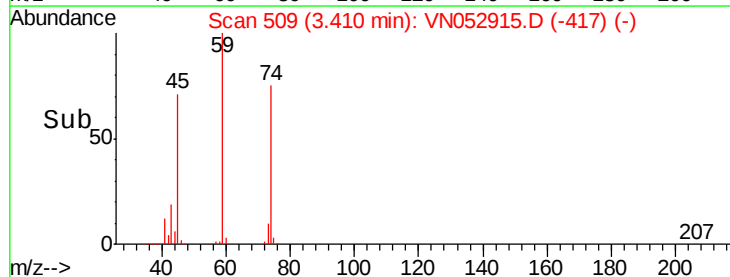
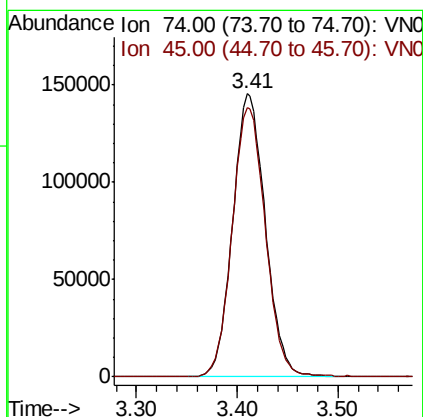
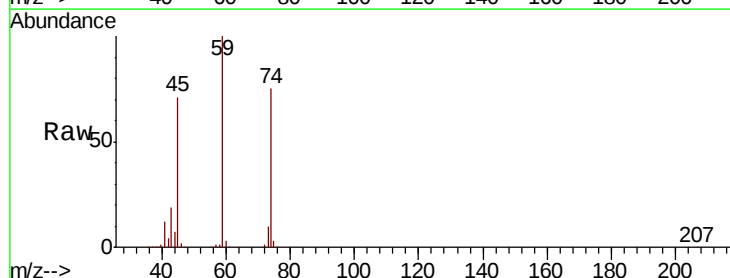
Tot Ion:101 Resp: 884124
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.8 77.6

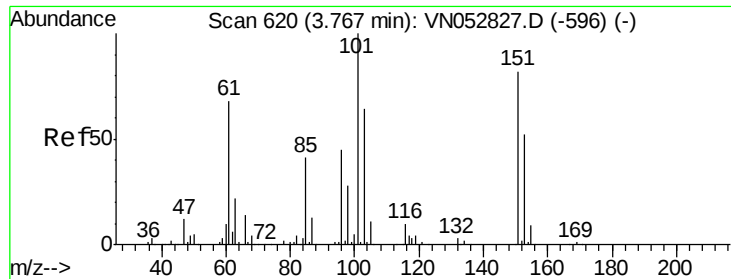


#8

Diethyl Ether
 Concen: 50.079 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 74 Resp: 326686
 Ion Ratio Lower Upper
 74 100
 45 96.9 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.472 ug/l

RT: 3.76 min Scan# 619

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

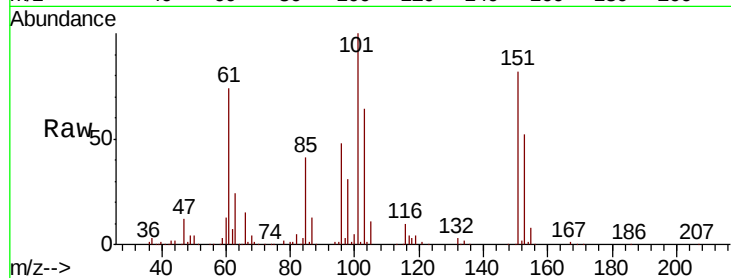
Tot Ion:101 Resp: 570479

Ion Ratio Lower Upper

101 100

85 41.8 33.6 50.4

151 82.7 65.5 98.3

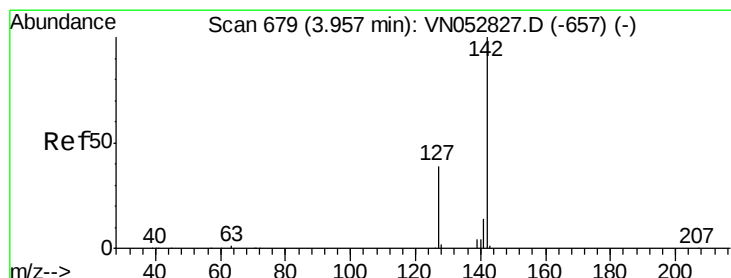
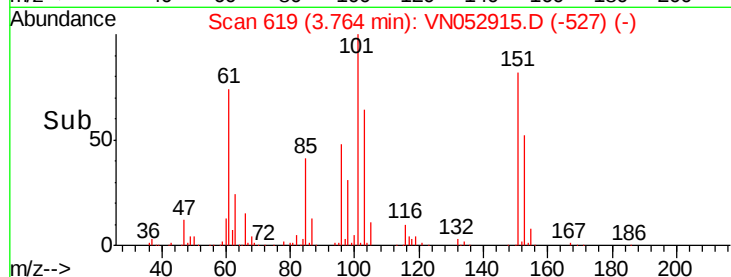
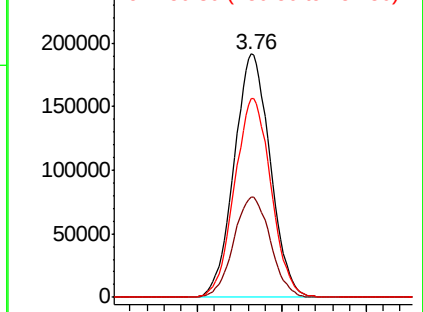


Abundance

Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 50.261 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

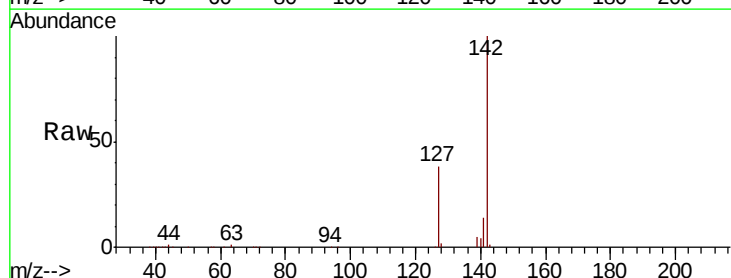
Tgt Ion:142 Resp: 780131

Ion Ratio Lower Upper

142 100

127 38.6 31.0 46.6

141 14.1 11.2 16.8

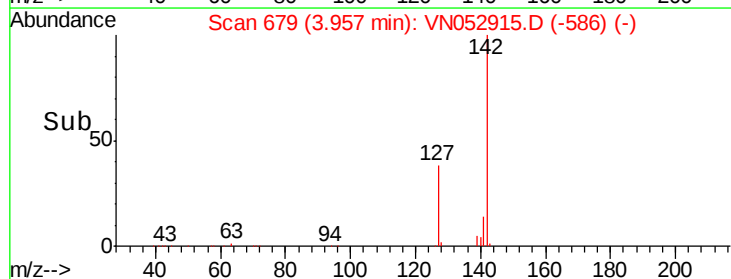
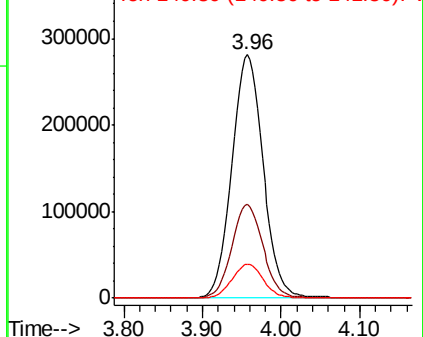


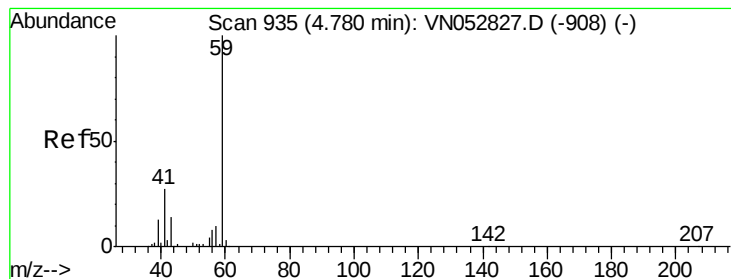
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



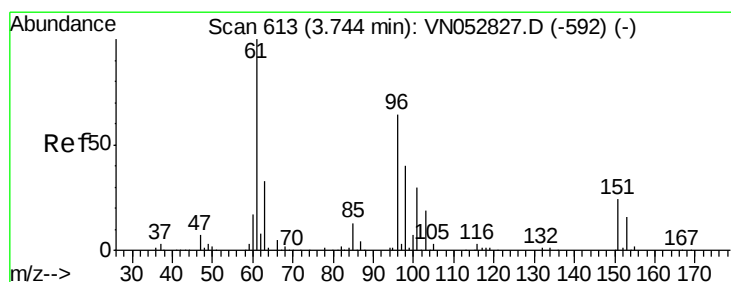
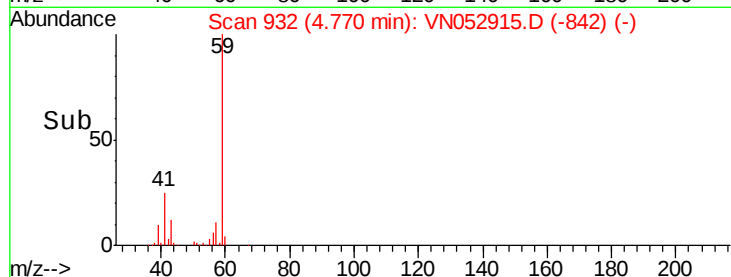
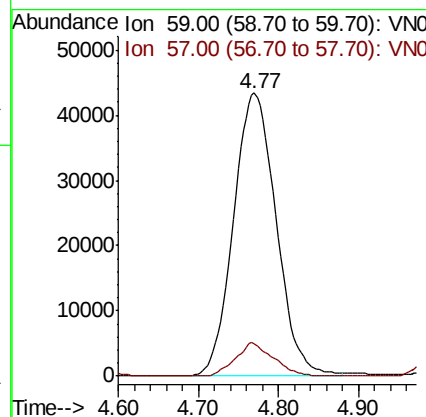
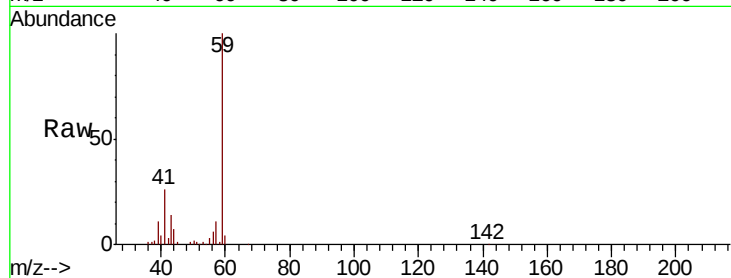


#11

Tert butyl alcohol
 Concen: 227.306 ug/l
 RT: 4.77 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

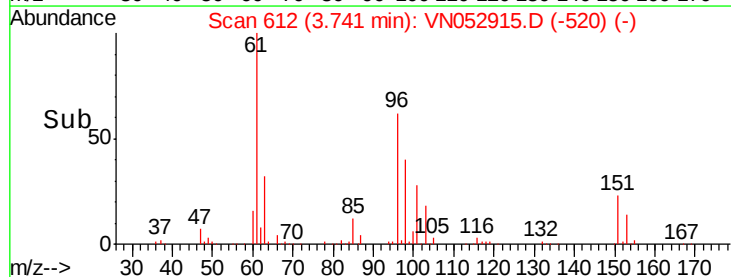
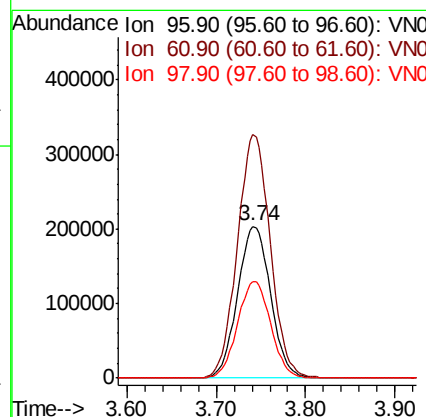
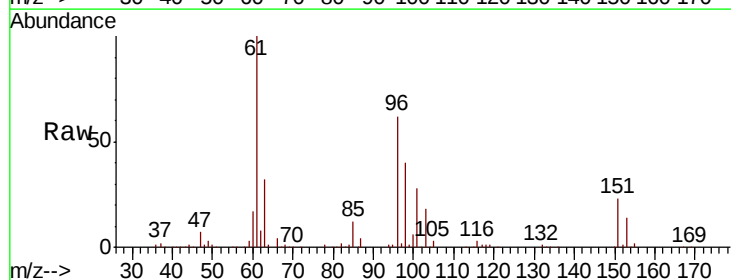
Tot Ion: 59 Resp: 157597
 Ion Ratio Lower Upper
 59 100
 57 10.5 7.7 11.5

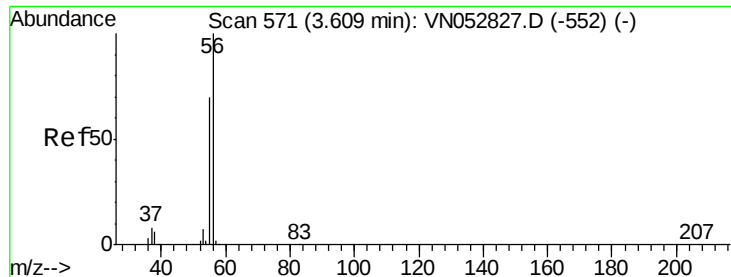


#12

1,1-Dichloroethene
 Concen: 48.789 ug/l
 RT: 3.74 min Scan# 612
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 96 Resp: 523468
 Ion Ratio Lower Upper
 96 100
 61 160.7 125.6 188.4
 98 63.9 50.6 75.8





#13

Acrolein

Concen: 128.354 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

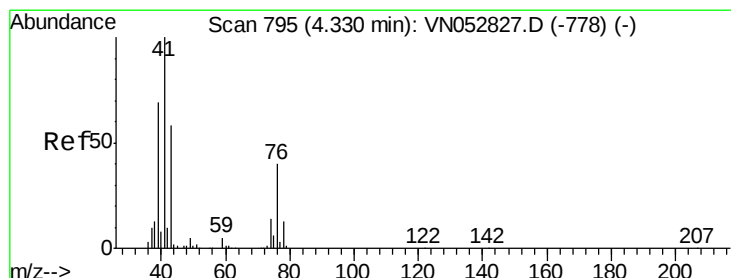
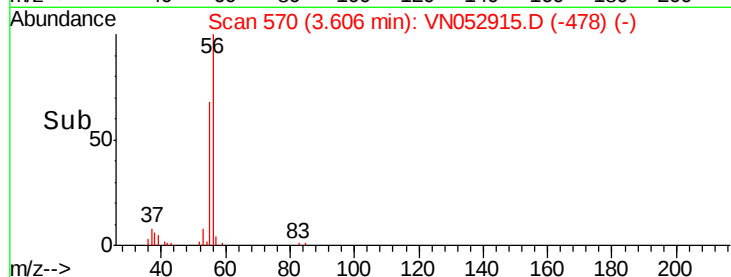
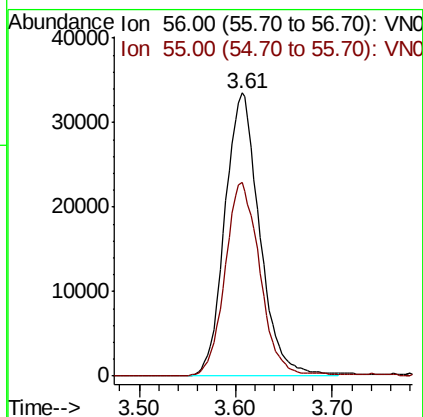
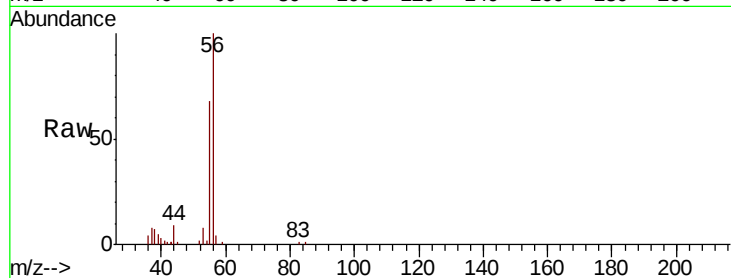
BFB

Tot Ion: 56 Resp: 83786

Ion Ratio Lower Upper

56 100

55 68.0 56.6 85.0



#14

Allyl chloride

Concen: 49.013 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

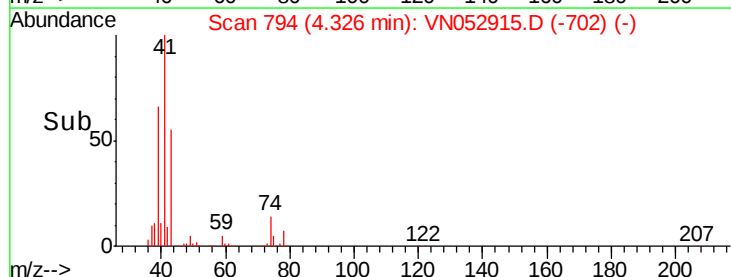
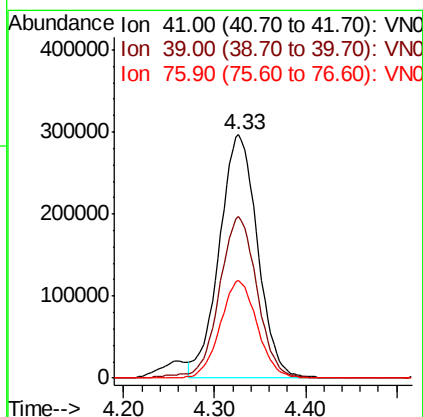
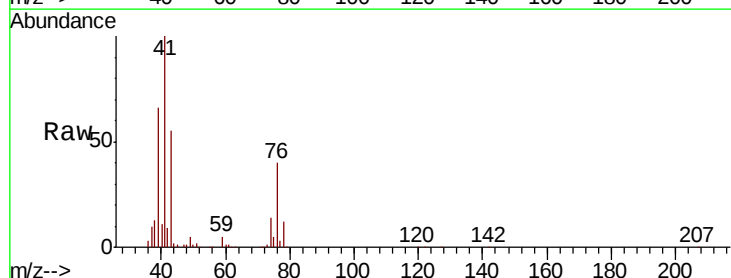
Tgt Ion: 41 Resp: 858932

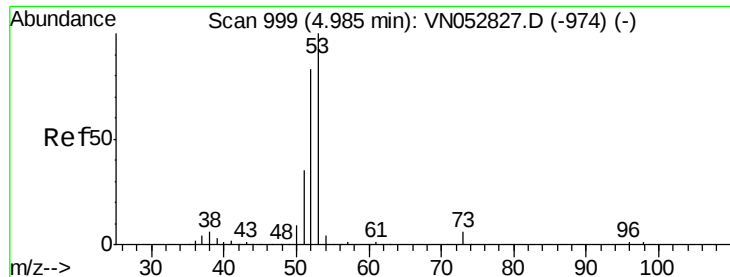
Ion Ratio Lower Upper

41 100

39 66.3 54.1 81.1

76 38.7 30.3 45.5





#15

Acrylonitrile

Concen: 244.176 ug/l

RT: 4.98 min Scan# 998

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

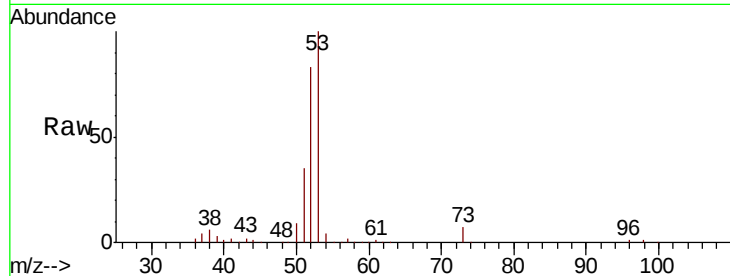
Tot Ion: 53 Resp: 949751

Ion Ratio Lower Upper

53 100

52 82.7 65.1 97.7

51 35.8 28.1 42.1



Abundance Ion 53.00 (52.70 to 53.70): VN052827.D (-974) (-)

Ion 52.00 (51.70 to 52.70): VN052827.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VN052827.D (-974) (-)

4.98

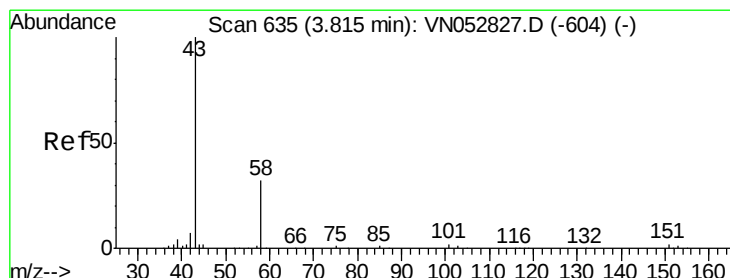
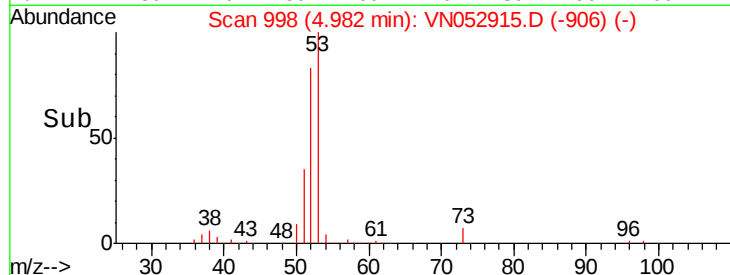
300000

200000

100000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#16

Acetone

Concen: 170.174 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN052915.D

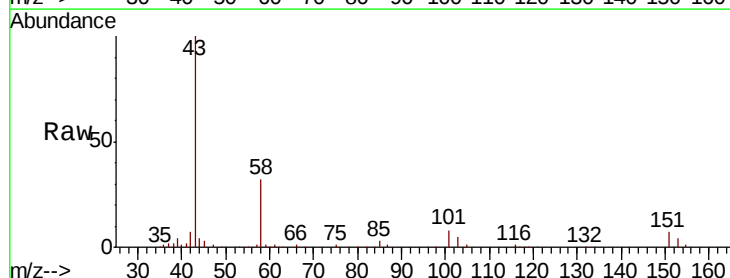
Acq: 17 Dec 2018 9:35

Tgt Ion: 43 Resp: 474248

Ion Ratio Lower Upper

43 100

58 31.6 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-604) (-)

3.81

200000

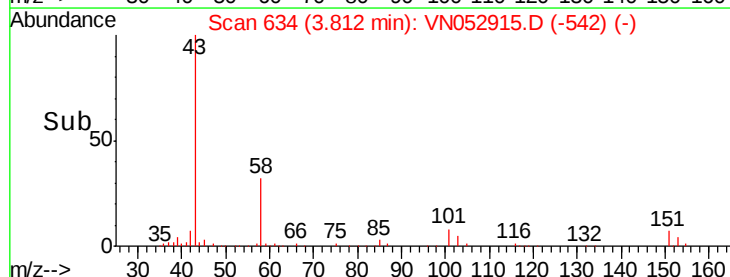
150000

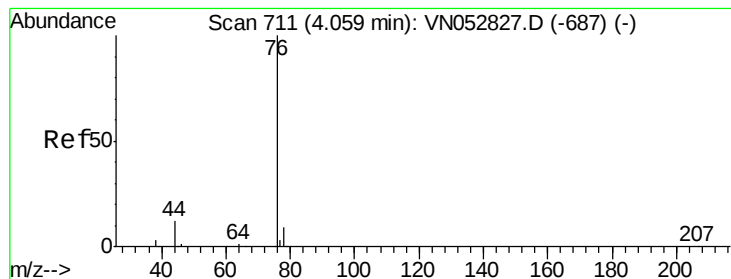
100000

50000

0

Time--> 3.60 3.70 3.80 3.90 4.00





#17

Carbon Disulfide

Concen: 50.326 ug/l

RT: 4.06 min Scan# 710

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

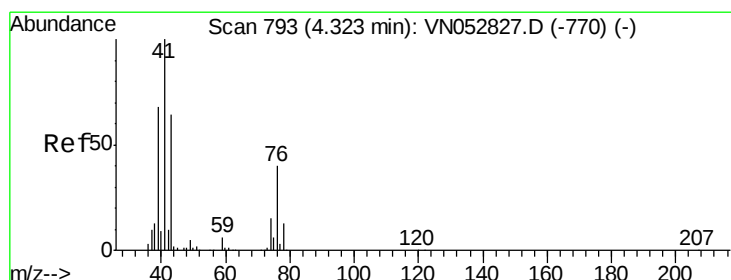
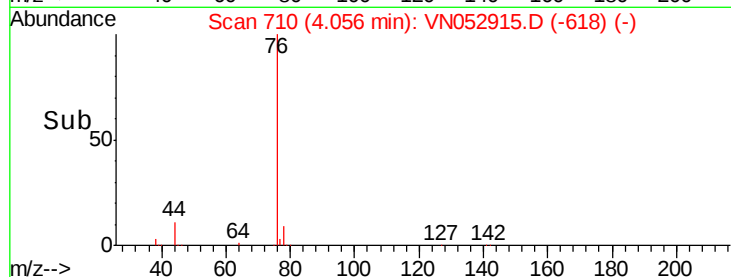
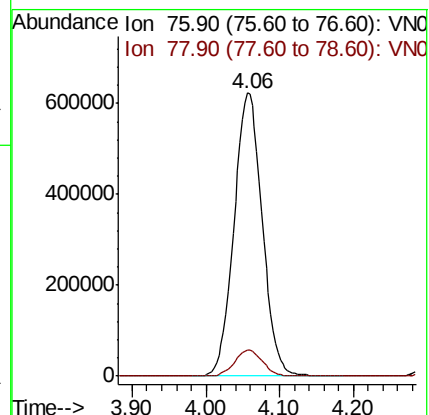
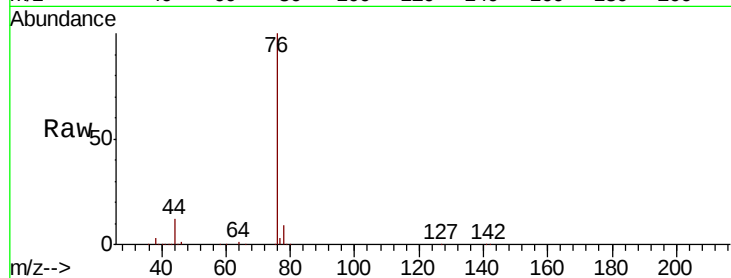
BFB

Tot Ion: 76 Resp: 1658747

Ion Ratio Lower Upper

76 100

78 9.2 7.1 10.7



#18

Methyl Acetate

Concen: 48.563 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN052915.D

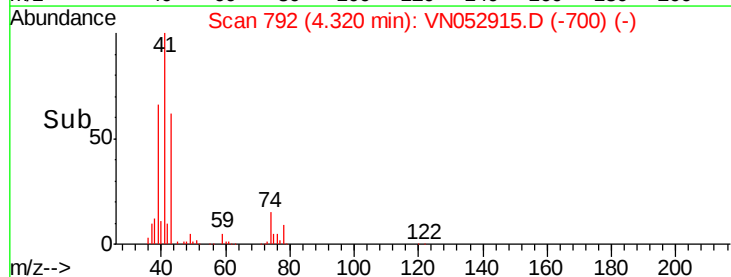
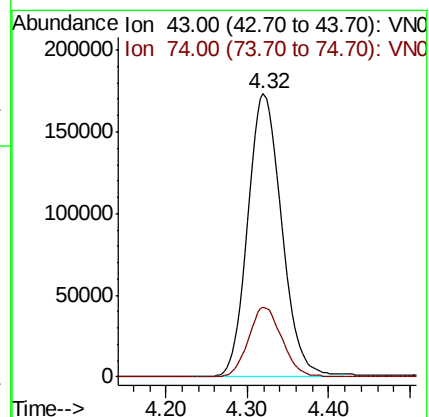
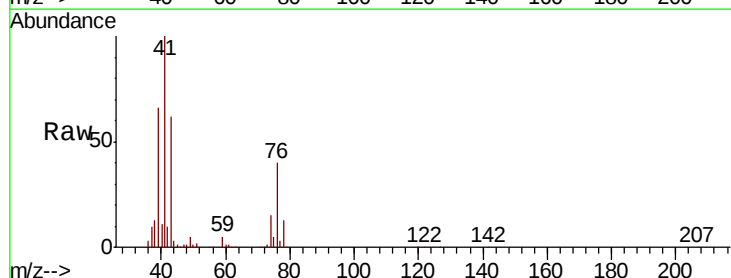
Acq: 17 Dec 2018 9:35

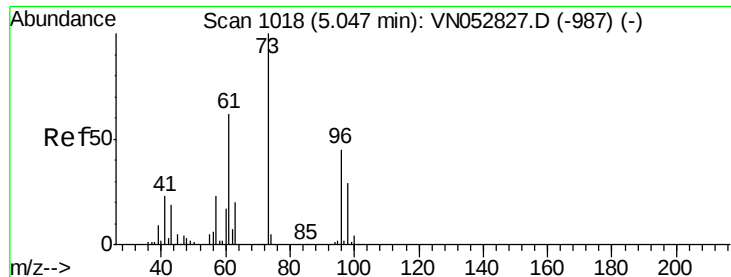
Tgt Ion: 43 Resp: 496690

Ion Ratio Lower Upper

43 100

74 24.3 19.2 28.8





#19

Methyl tert-butyl Ether
 Concen: 48.609 ug/l
 RT: 5.04 min Scan# 1017
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

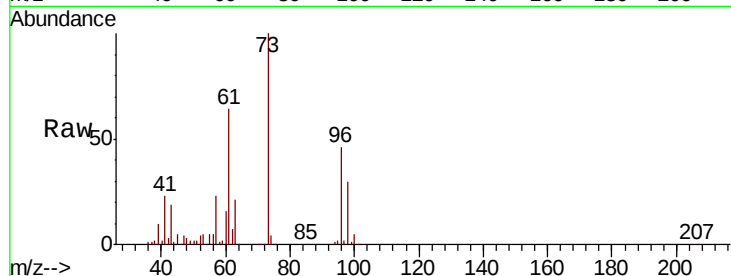
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

Tot Ion: 73 Resp: 1415856

Ion Ratio Lower Upper

73 100

57 23.1 18.4 27.6



Abundance Ion 73.00 (72.70 to 73.70): VN052827.D (-987) (-)

Ion 57.00 (56.70 to 57.70): VN052827.D (-987) (-)

5.04

400000

300000

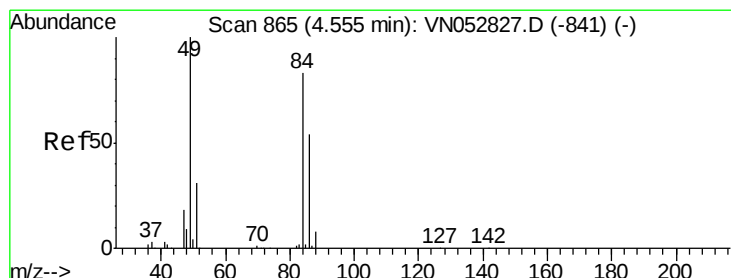
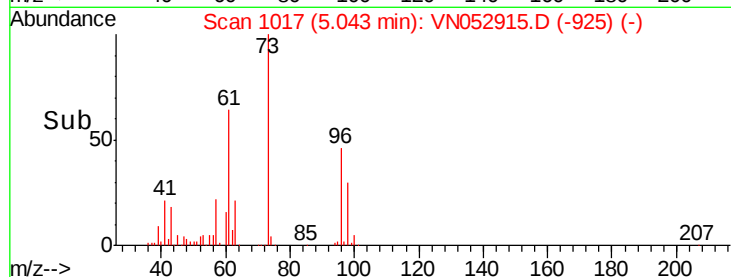
200000

100000

0

Time-->

4.90 5.00 5.10 5.20



#20

Methylene Chloride
 Concen: 48.078 ug/l
 RT: 4.55 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 84 Resp: 602961

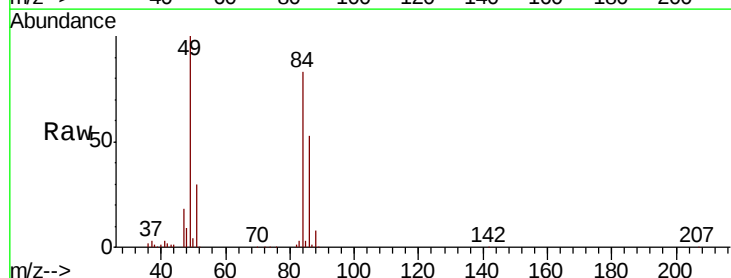
Ion Ratio Lower Upper

84 100

49 120.8 96.8 145.2

51 36.8 29.9 44.9

86 64.4 51.8 77.6



Abundance Ion 83.90 (83.60 to 84.60): VN052827.D (-841) (-)

Ion 48.90 (48.60 to 49.60): VN052827.D (-841) (-)

Ion 50.90 (50.60 to 51.60): VN052827.D (-841) (-)

Ion 85.90 (85.60 to 86.60): VN052827.D (-841) (-)

4.55

300000

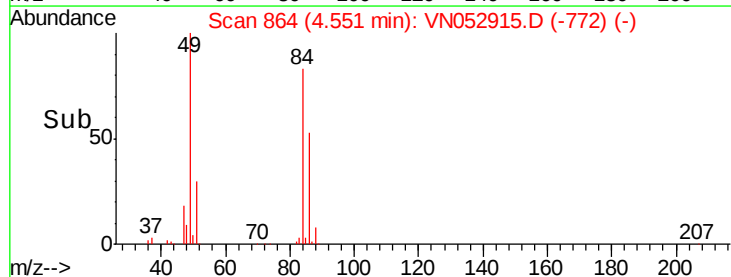
200000

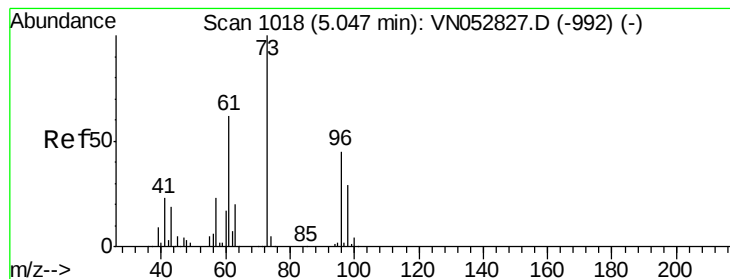
100000

0

Time-->

4.40 4.50 4.60 4.70





#21

trans-1,2-Dichloroethene

Concen: 48.260 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

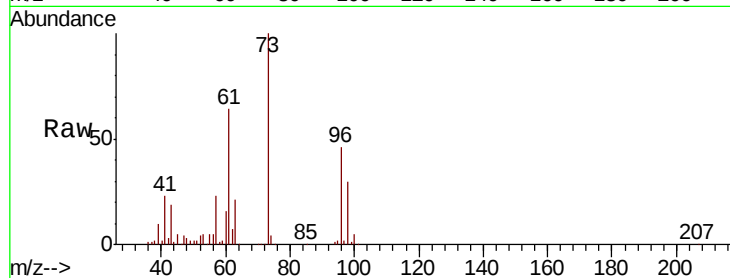
Tot Ion: 96 Resp: 560977

Ion Ratio Lower Upper

96 100

61 139.5 110.8 166.2

98 64.8 51.4 77.2

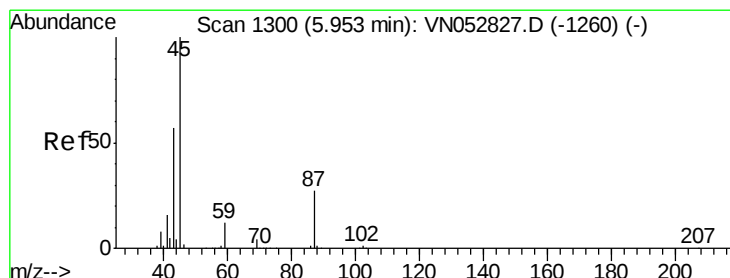
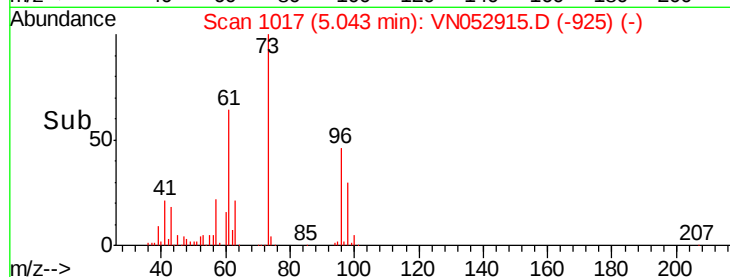
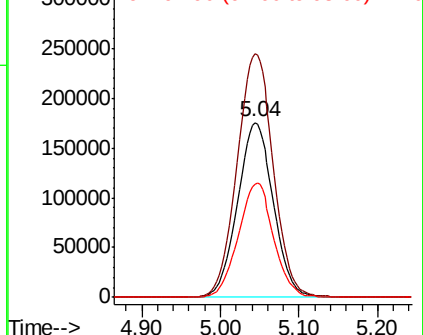


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 49.893 ug/l

RT: 5.95 min Scan# 1299

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion: 45 Resp: 1865313

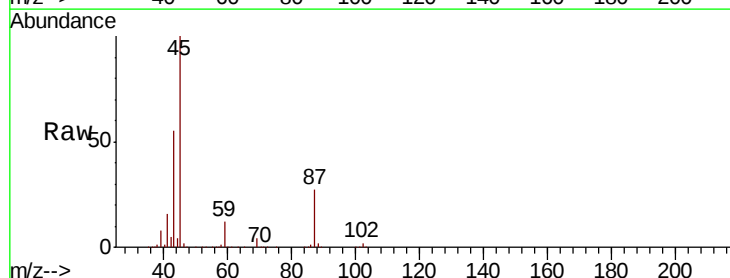
Ion Ratio Lower Upper

45 100

43 54.1 45.5 68.3

87 27.2 22.0 33.0

59 12.0 9.4 14.0



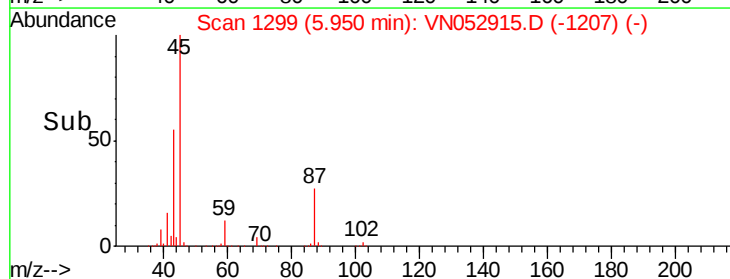
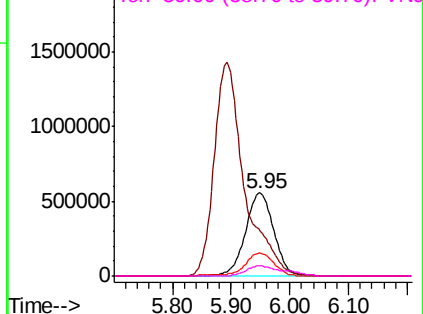
Abundance

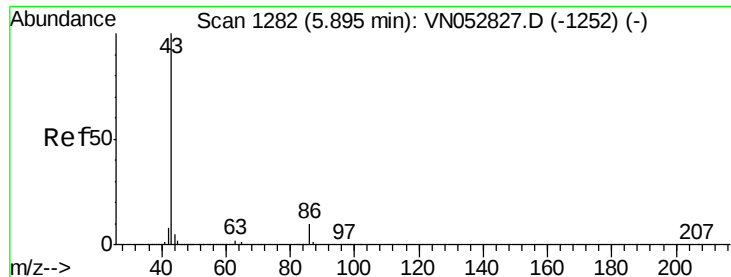
Ion 45.00 (44.70 to 45.70): VN0

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





#23

Vinyl Acetate

Concen: 229.478 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

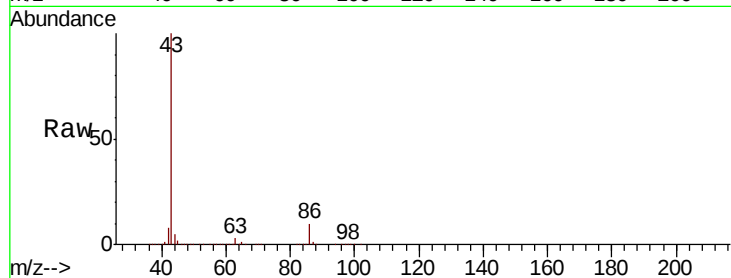
BFB

Tot Ion: 43 Resp: 5105020

Ion Ratio Lower Upper

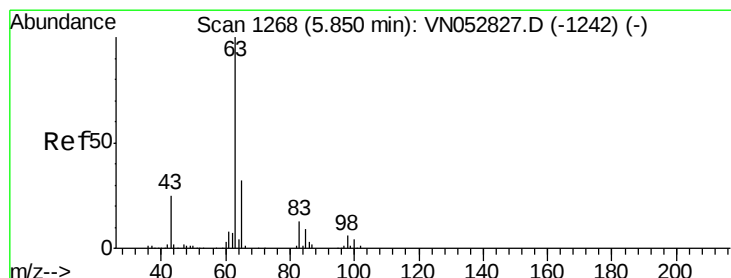
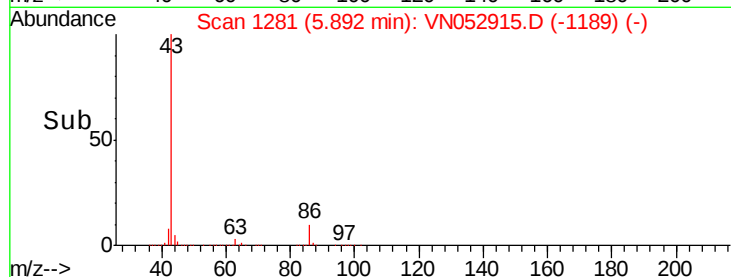
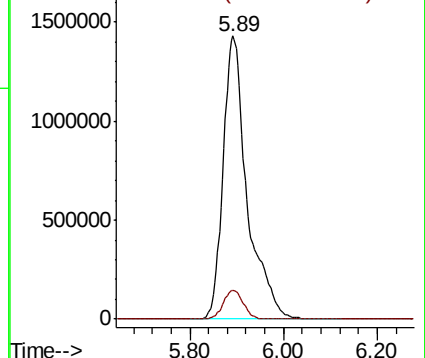
43 100

86 10.2 8.1 12.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 49.038 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

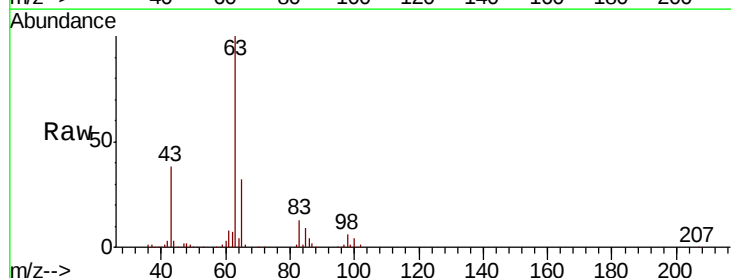
Tgt Ion: 63 Resp: 1057242

Ion Ratio Lower Upper

63 100

98 6.3 3.1 9.4

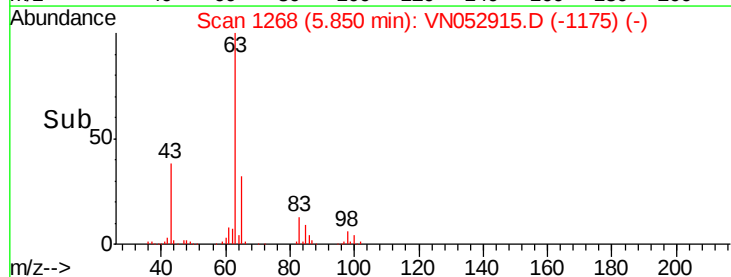
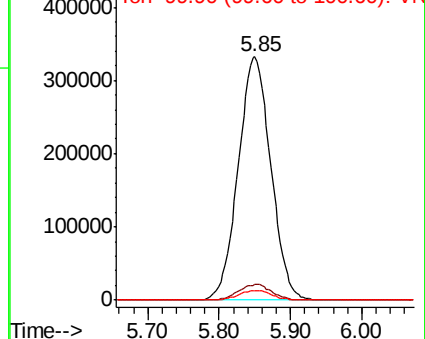
100 4.0 2.0 5.8

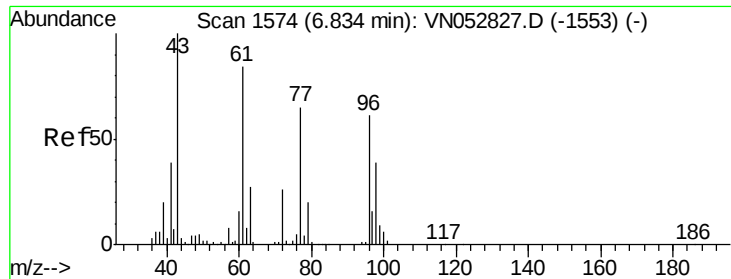


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

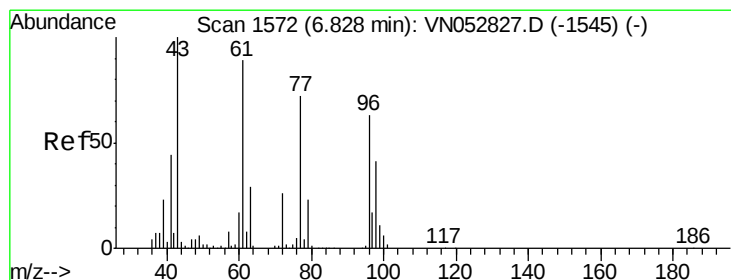
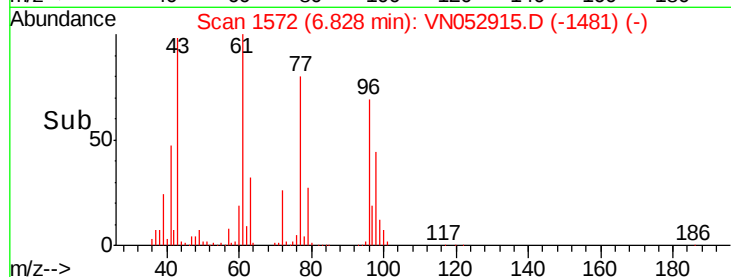
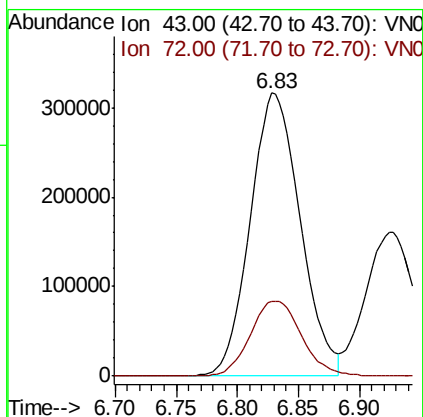
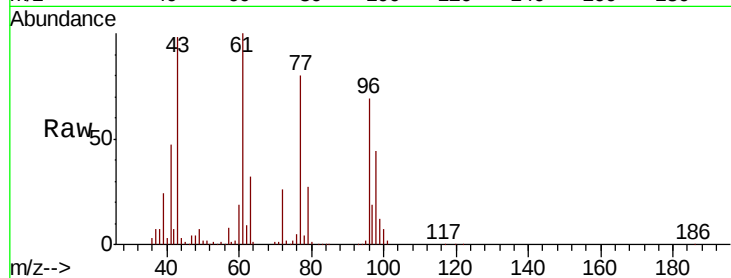




#25
2-Butanone
Concen: 207.683 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

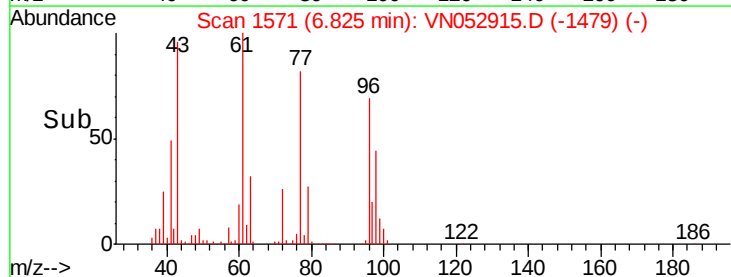
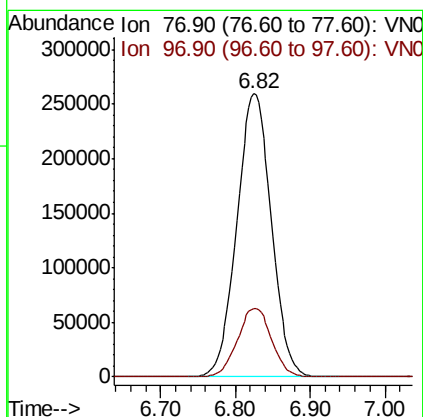
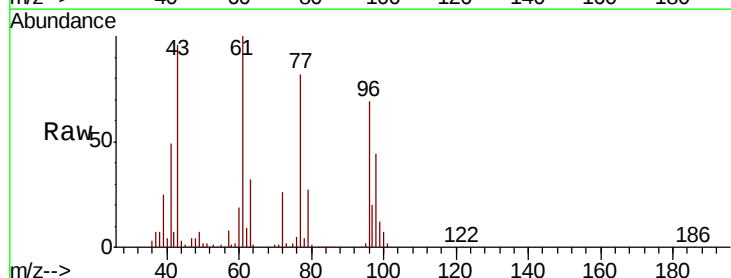
Instrument :
MSVOA_N
ClientSampleId :
BFB

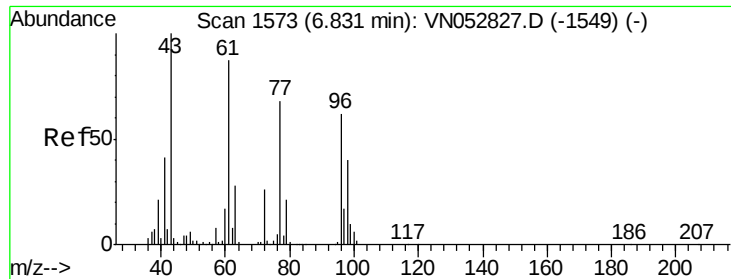
Tot Ion: 43 Resp: 898058
Ion Ratio Lower Upper
43 100
72 26.5 21.0 31.6



#26
2,2-Dichloropropane
Concen: 52.278 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 77 Resp: 830009
Ion Ratio Lower Upper
77 100
97 24.0 11.9 35.9

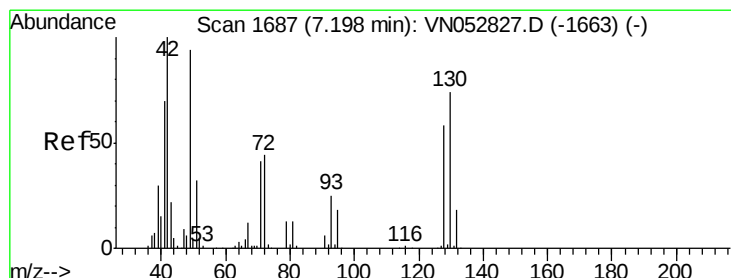
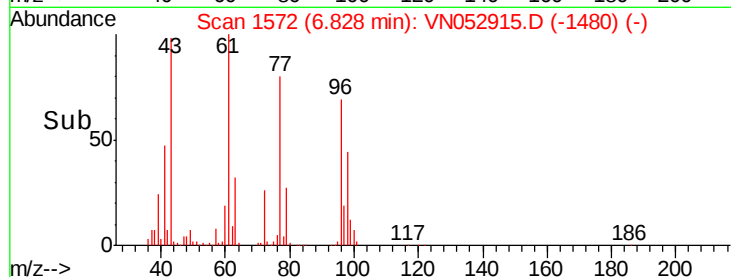
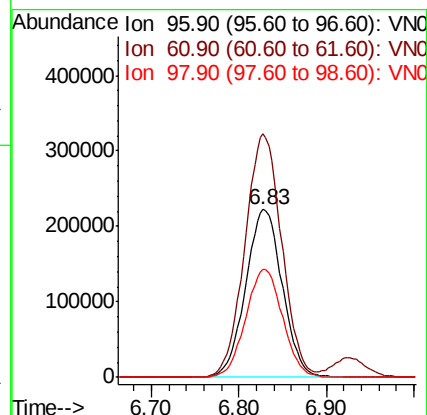
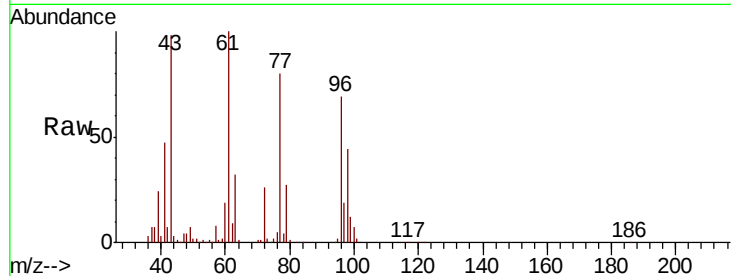




#27
 cis-1,2-Dichloroethene
 Concen: 49.011 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

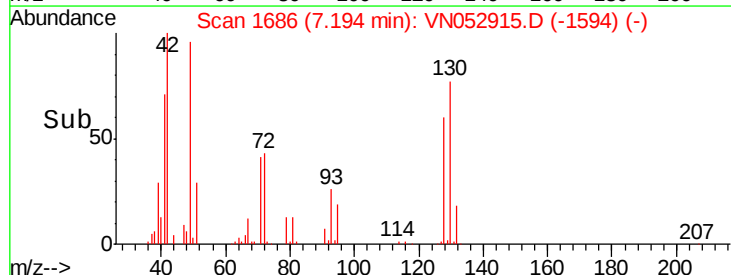
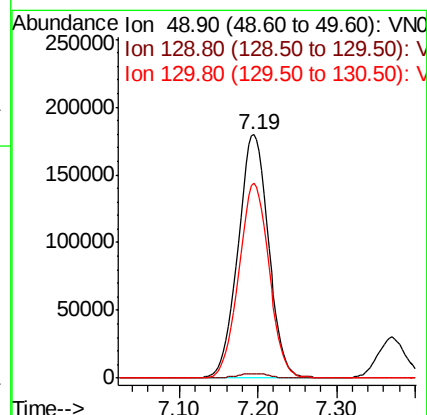
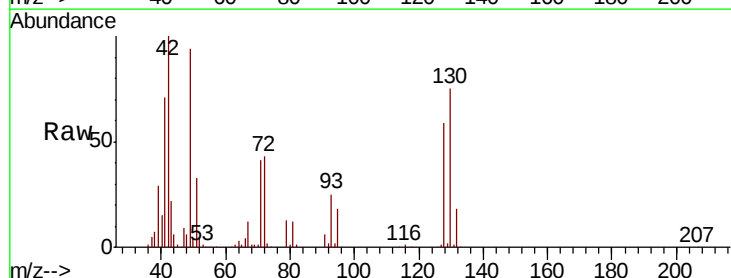
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

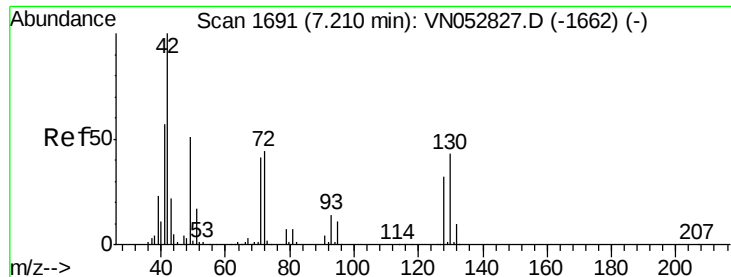
Tot Ion: 96 Resp: 646590
 Ion Ratio Lower Upper
 96 100
 61 145.7 0.0 284.2
 98 64.8 0.0 129.2



#28
 Bromochloromethane
 Concen: 50.180 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 49 Resp: 485802
 Ion Ratio Lower Upper
 49 100
 129 1.9 0.0 4.0
 130 79.5 63.3 94.9





#29

Tetrahydrofuran

Concen: 239.414 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

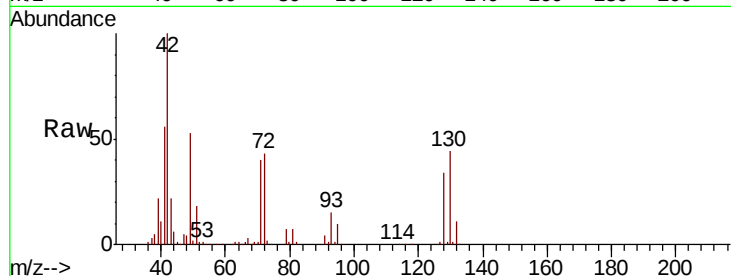
Tot Ion: 42 Resp: 706763

Ion Ratio Lower Upper

42 100

72 43.3 34.7 52.1

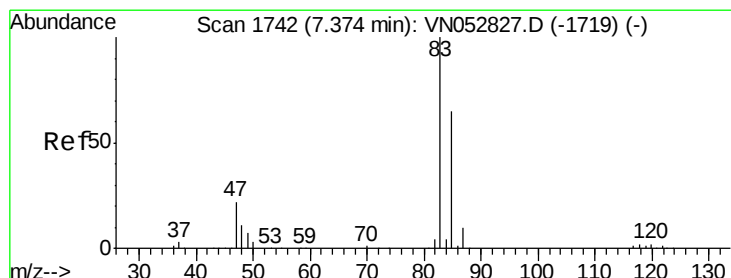
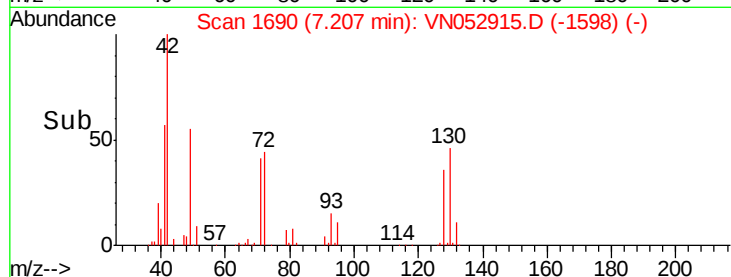
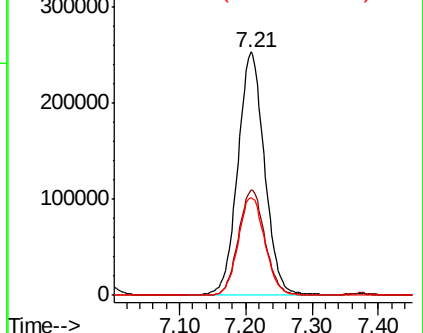
71 40.3 32.3 48.5



Abundance Ion 42.00 (41.70 to 42.70): VN052827.D (-1662) (-)

Ion 72.00 (71.70 to 72.70): VN052827.D (-1662) (-)

Ion 71.00 (70.70 to 71.70): VN052827.D (-1662) (-)



#30

Chloroform

Concen: 49.367 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN052915.D

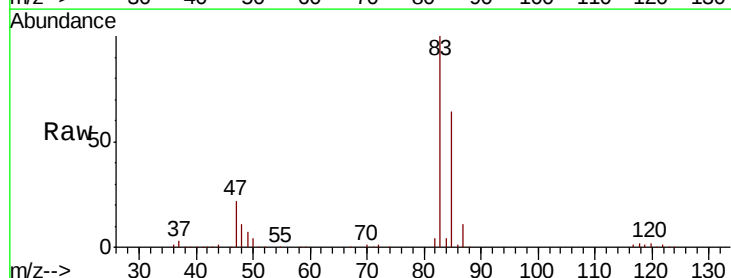
Acq: 17 Dec 2018 9:35

Tgt Ion: 83 Resp: 1037903

Ion Ratio Lower Upper

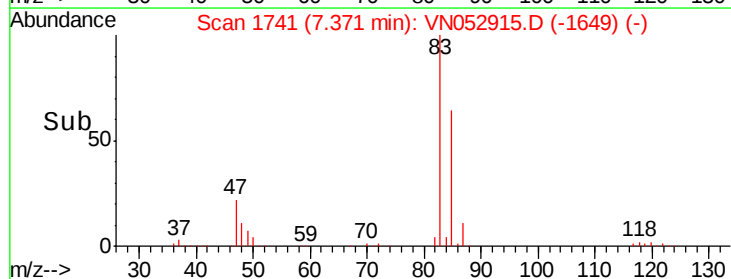
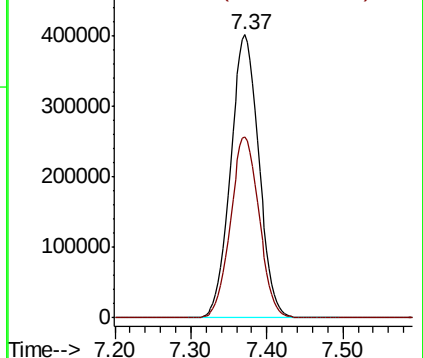
83 100

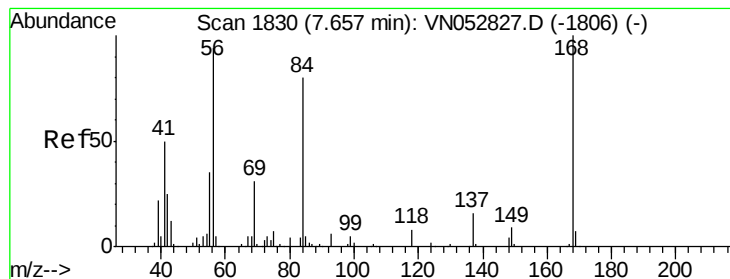
85 64.2 52.1 78.1



Abundance Ion 82.90 (82.60 to 83.60): VN052827.D (-1719) (-)

Ion 84.90 (84.60 to 85.60): VN052827.D (-1719) (-)





#31

Cyclohexane

Concen: 49.257 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

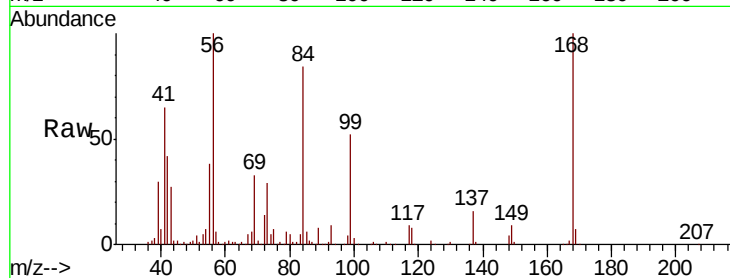
Tot Ion: 56 Resp: 1035909

Ion Ratio Lower Upper

56 100

69 32.6 26.6 39.8

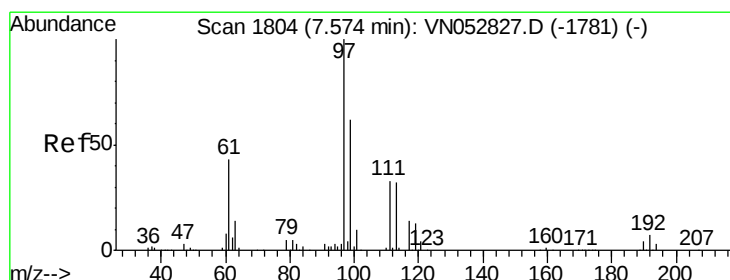
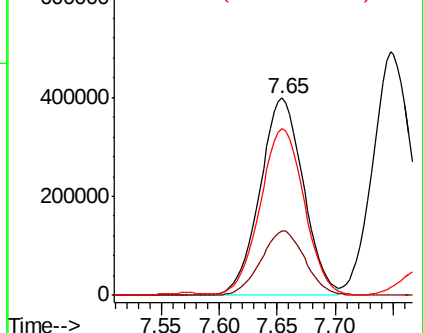
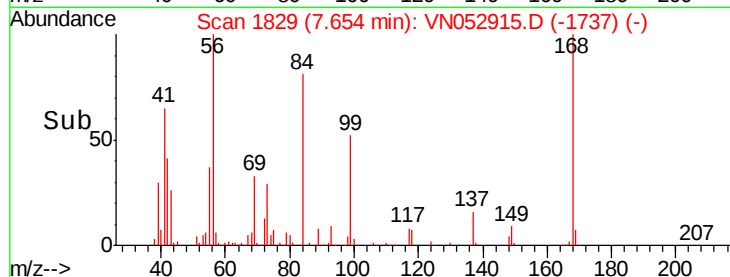
84 83.4 68.4 102.6



Abundance Ion 56.00 (55.70 to 56.70): VN052915.D (-1737) (-)

Ion 69.00 (68.70 to 69.70): VN052915.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN052915.D (-1737) (-)



#32

1,1,1-Trichloroethane

Concen: 50.074 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

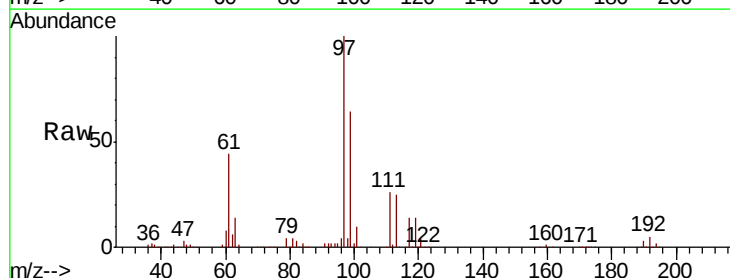
Tgt Ion: 97 Resp: 880821

Ion Ratio Lower Upper

97 100

99 64.4 51.1 76.7

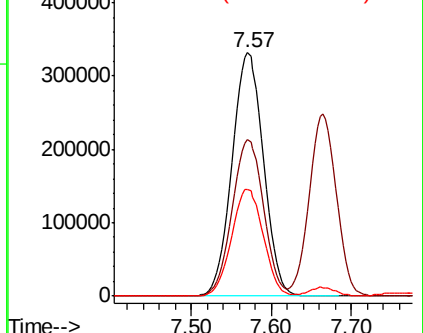
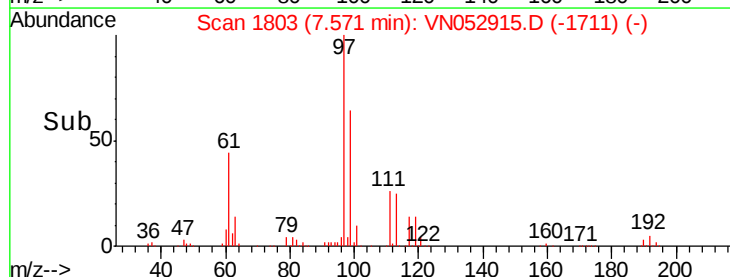
61 44.5 35.0 52.6

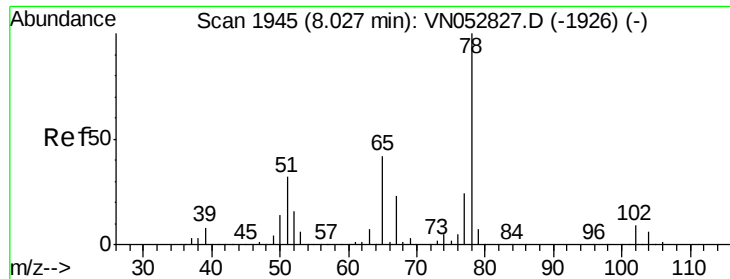


Abundance Ion 96.90 (96.60 to 97.60): VN052915.D (-1711) (-)

Ion 98.90 (98.60 to 99.60): VN052915.D (-1711) (-)

Ion 60.90 (60.60 to 61.60): VN052915.D (-1711) (-)

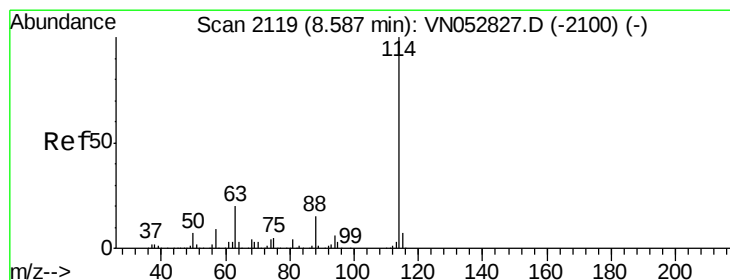
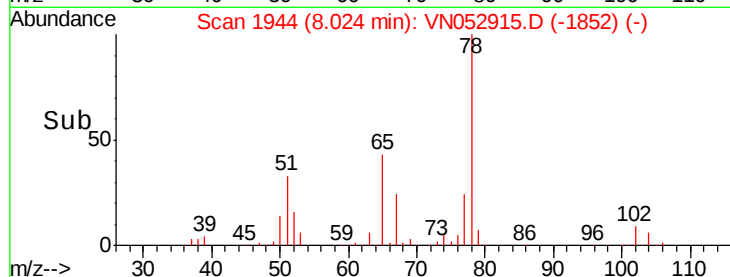
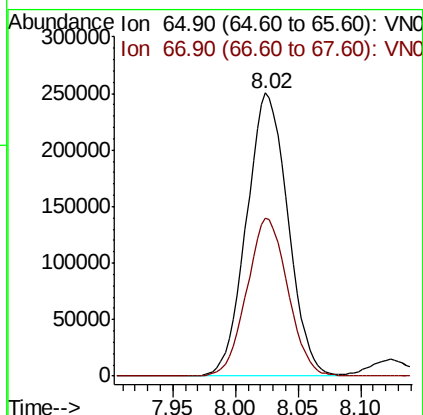
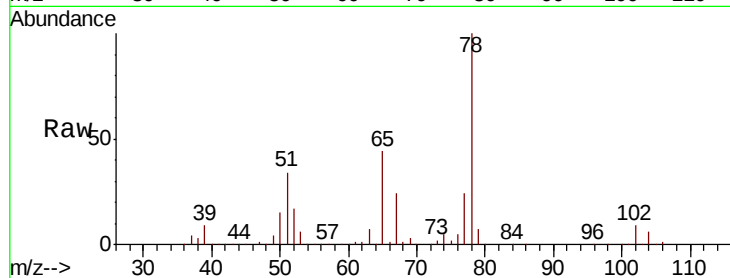




#33
 1,2-Dichloroethane-d4
 Concen: 50.074 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

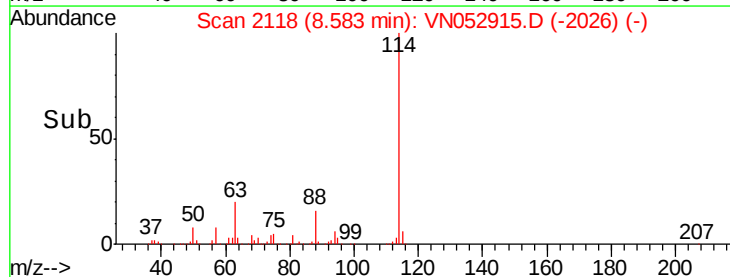
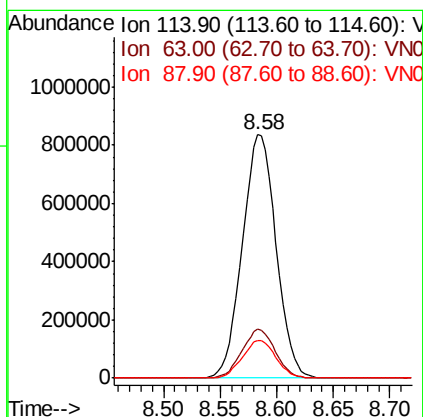
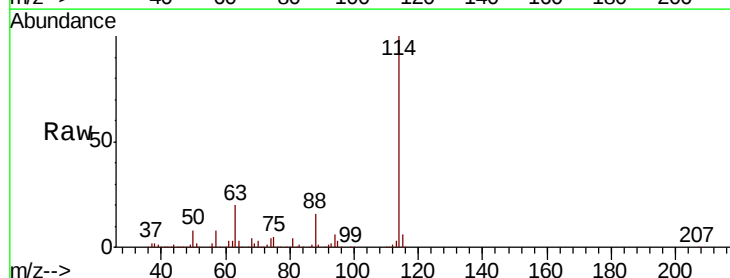
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

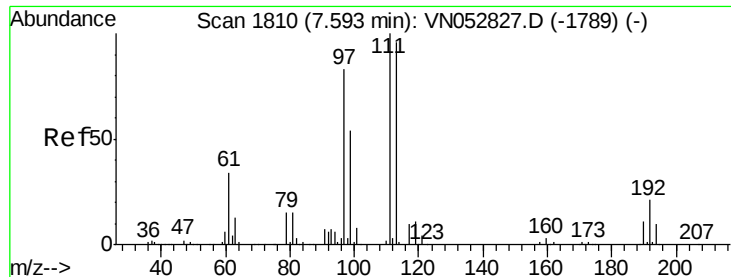
Tot Ion: 65 Resp: 576726
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 114 Resp: 1739843
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.8
 88 15.6 0.0 31.0

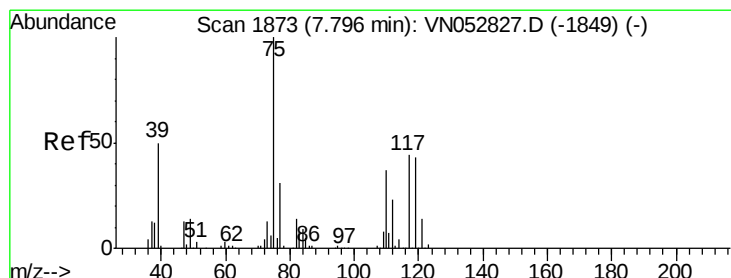
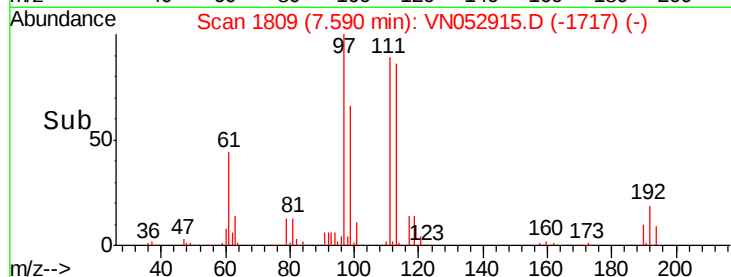
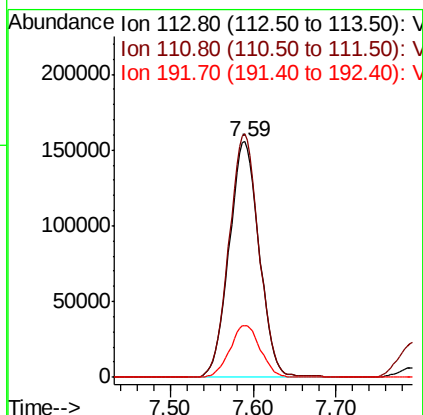
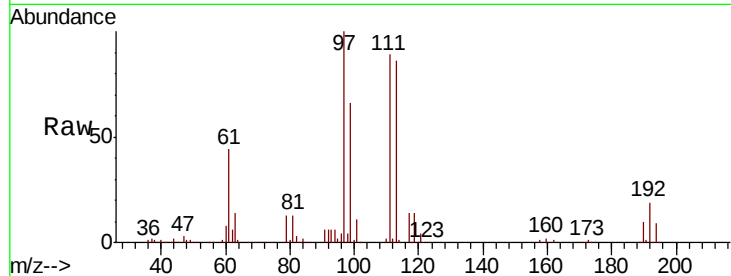




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

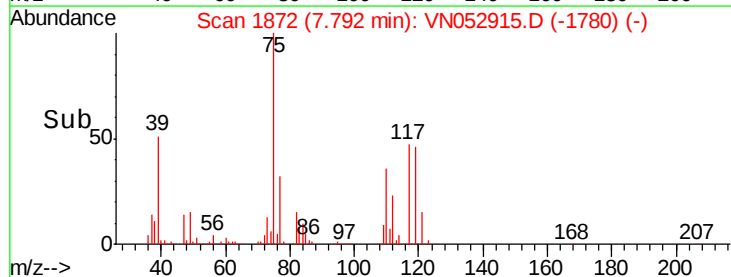
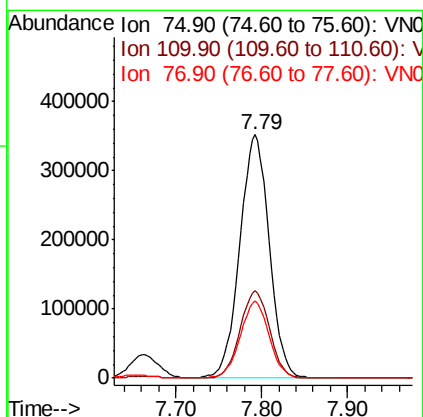
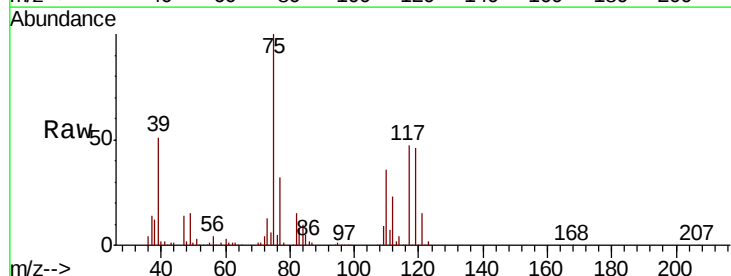
Instrument :
MSVOA_N
ClientSampleId :
BFB

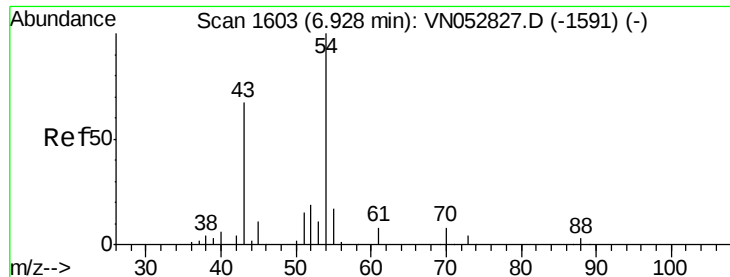
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.0	124.4
192	22.2	17.5	26.3



#36
1,1-Dichloropropene
Concen: 52.146 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.0	18.2	54.6
77	31.2	24.9	37.3

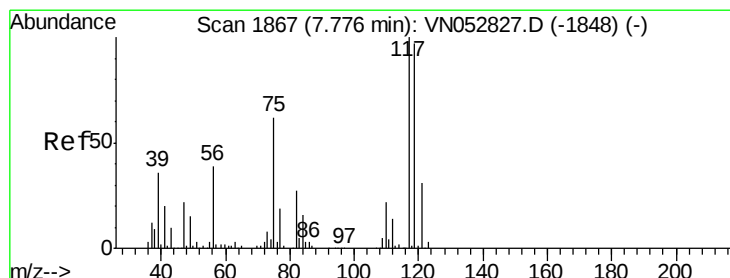
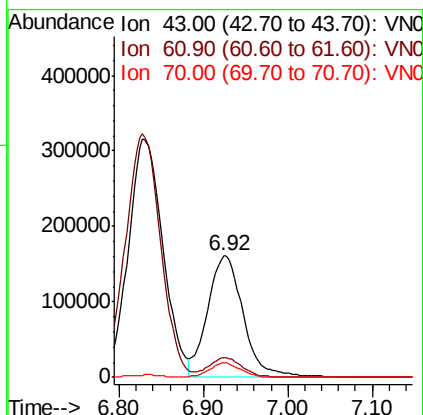
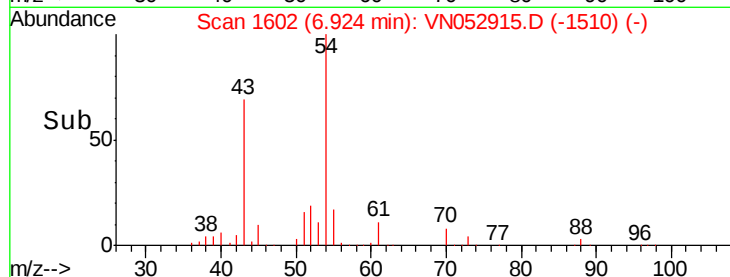
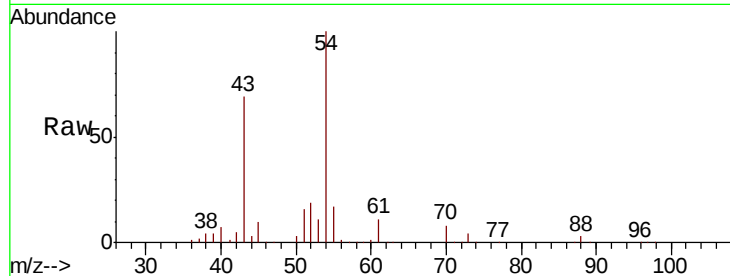




#37
Ethyl Acetate
Concen: 48.438 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

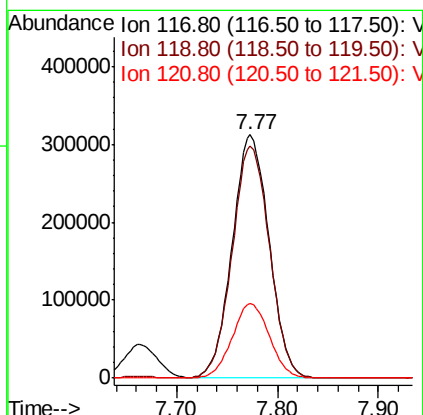
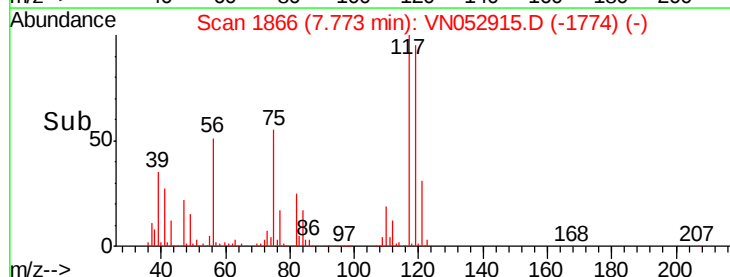
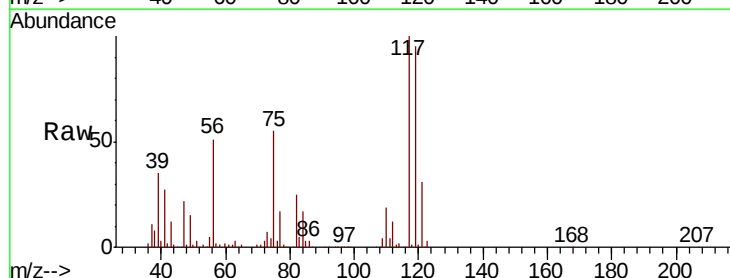
Instrument :
MSVOA_N
ClientSampled :
BFB

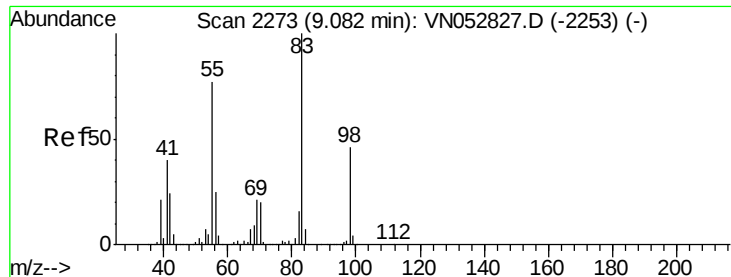
Tot Ion: 43 Resp: 466202
Ion Ratio Lower Upper
43 100
61 14.9 11.8 17.6
70 11.0 8.4 12.6



#38
Carbon Tetrachloride
Concen: 53.676 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 117 Resp: 791570
Ion Ratio Lower Upper
117 100
119 95.3 77.1 115.7
121 30.7 24.9 37.3

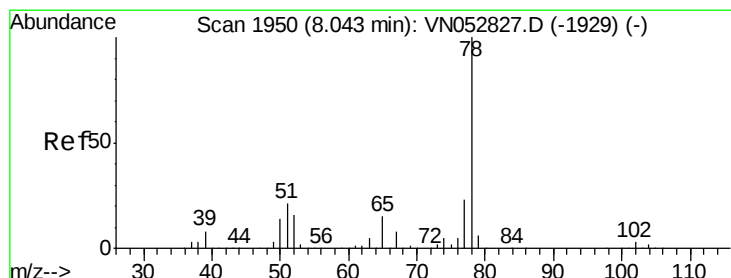
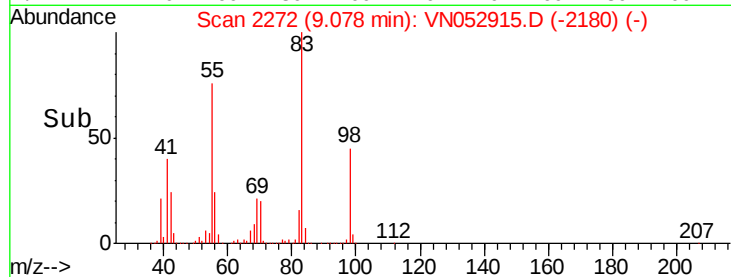
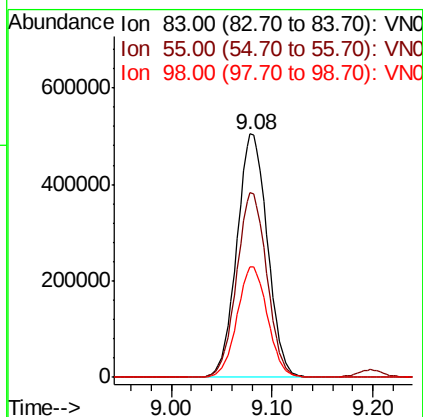
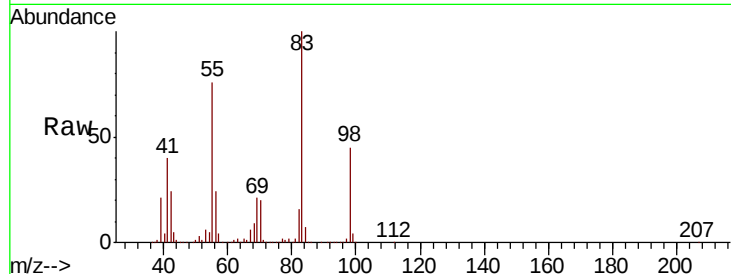




#39
Methvlcvclohexane
Concen: 53.707 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

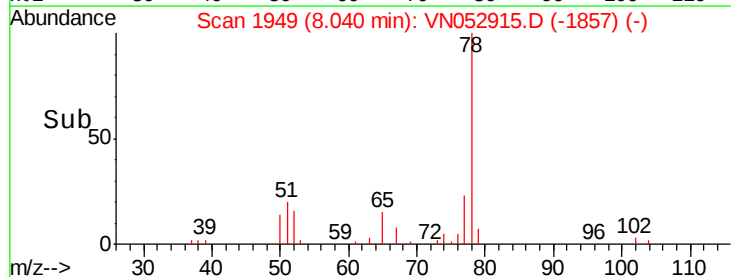
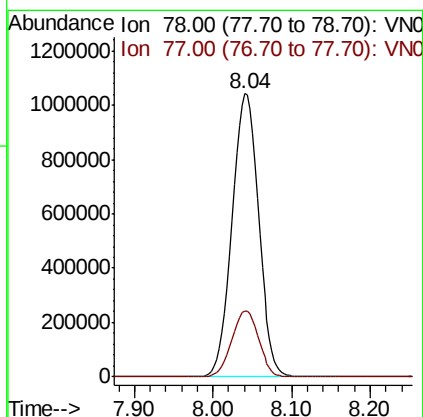
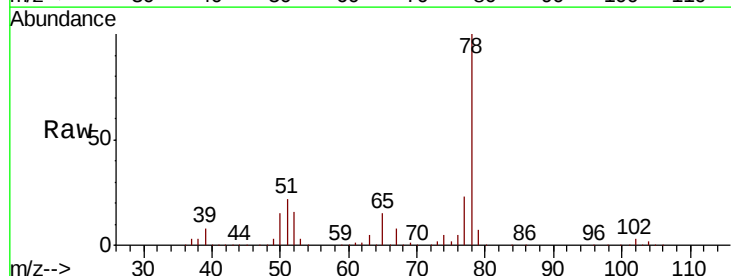
Instrument :
MSVOA_N
ClientSampleId :
BFB

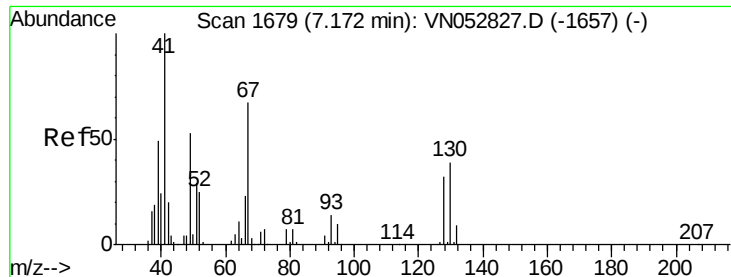
Tot Ion: 83 Resp: 1055943
Ion Ratio Lower Upper
83 100
55 76.0 61.3 91.9
98 45.2 37.0 55.4



#40
Benzene
Concen: 51.060 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 78 Resp: 2455319
Ion Ratio Lower Upper
78 100
77 23.4 18.5 27.7

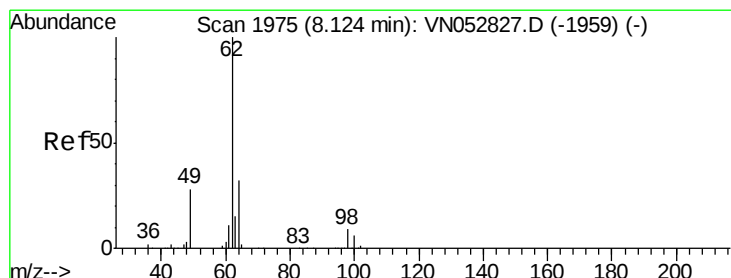
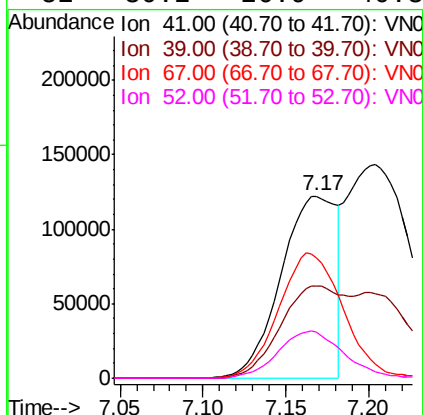
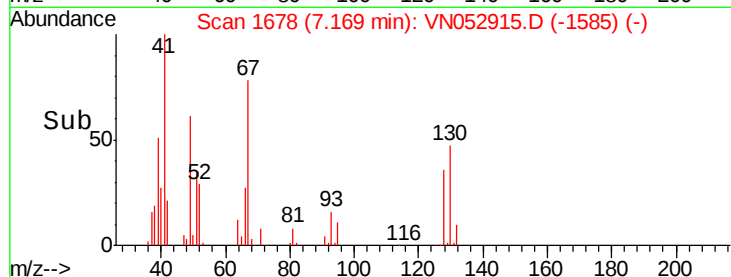
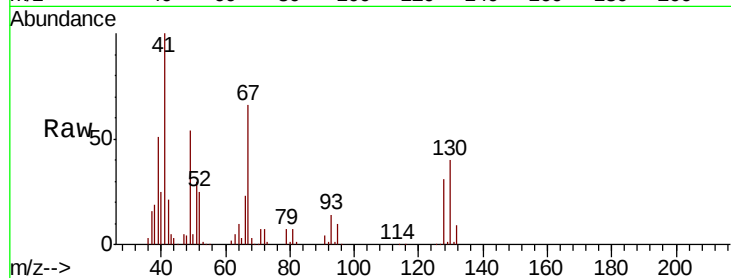




#41
Methacrylonitrile
Concen: 53.349 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

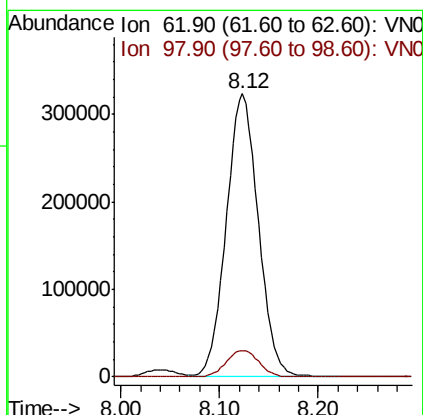
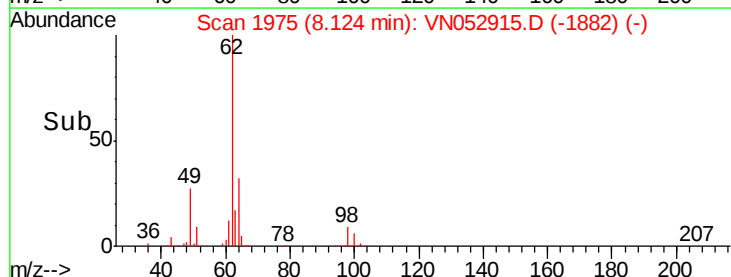
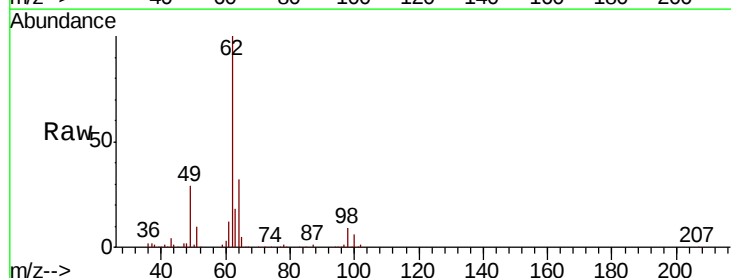
Instrument :
MSVOA_N
ClientSampled :
BFB

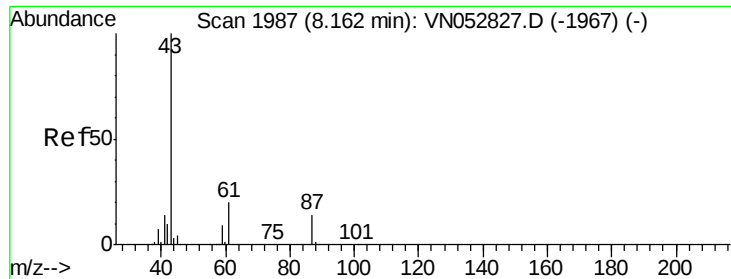
Tot Ion:	41	Resp:	284505
Ion	Ratio	Lower	Upper
41	100		
39	58.3	48.0	72.0
67	80.2	70.3	105.5
52	30.2	26.9	40.3



#42
1,2-Dichloroethane
Concen: 50.602 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:	62	Resp:	732549
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.0





#43

Isopropyl Acetate

Concen: 43.145 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

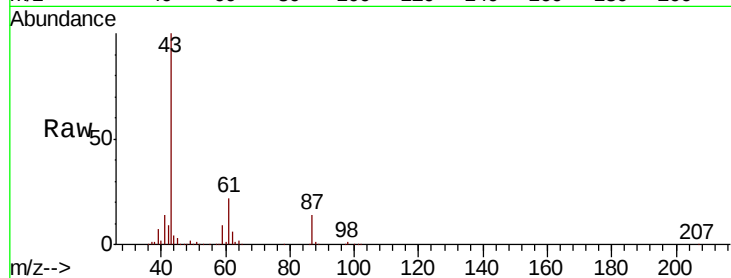
Tot Ion: 43 Resp: 851409

Ion Ratio Lower Upper

43 100

61 30.6 22.9 34.3

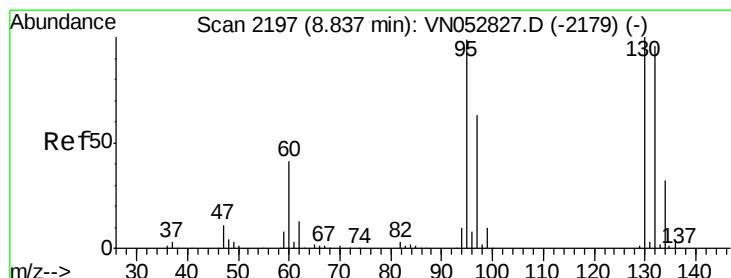
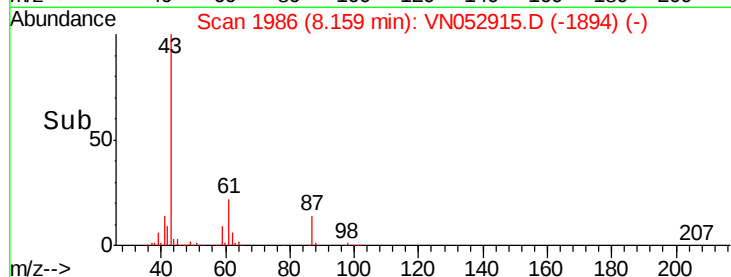
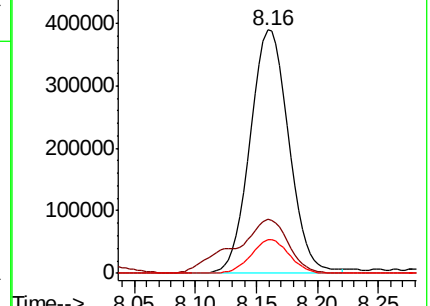
87 13.7 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN052827.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN052827.D (-1967) (-)



#44

Trichloroethene

Concen: 55.997 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN052915.D

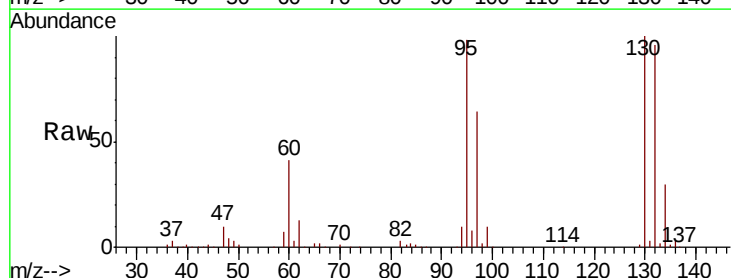
Acq: 17 Dec 2018 9:35

Tgt Ion:130 Resp: 727329

Ion Ratio Lower Upper

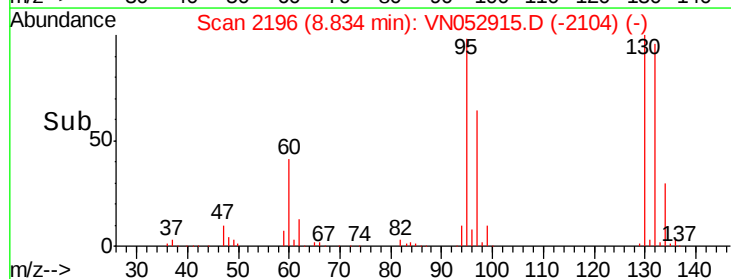
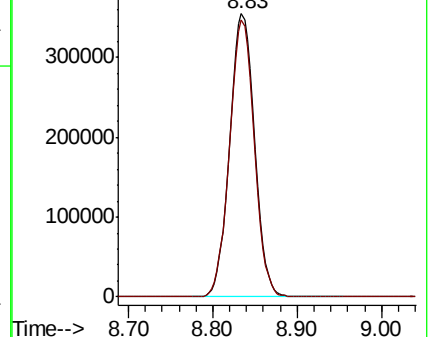
130 100

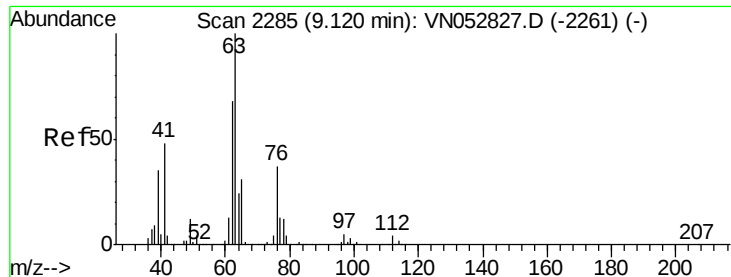
95 97.6 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): VN052827.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN052827.D (-2179) (-)





#45

1,2-Dichloropropane

Concen: 51.603 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

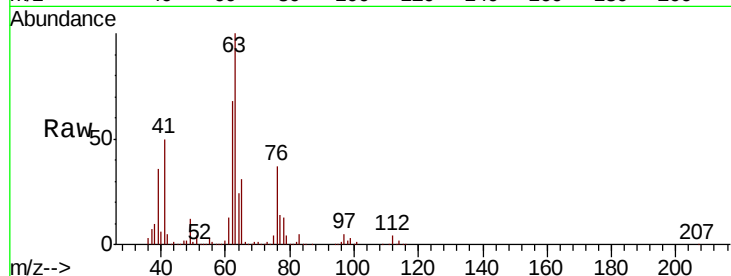
BFB

Tot Ion: 63 Resp: 649950

Ion Ratio Lower Upper

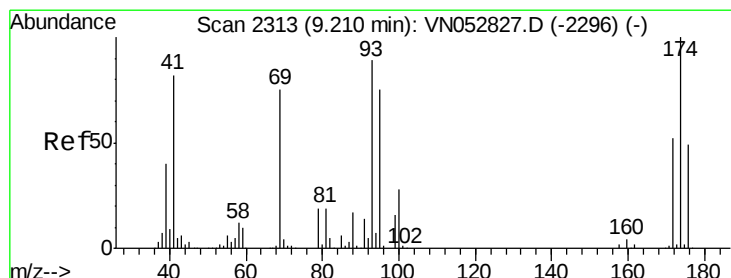
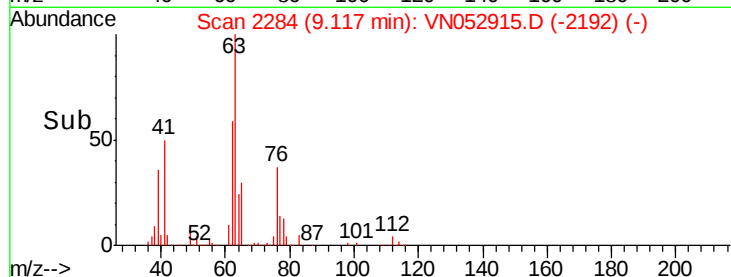
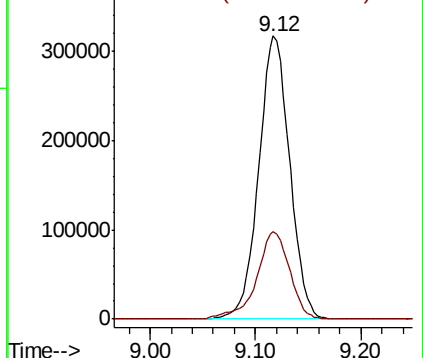
63 100

65 30.7 24.6 37.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 50.564 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

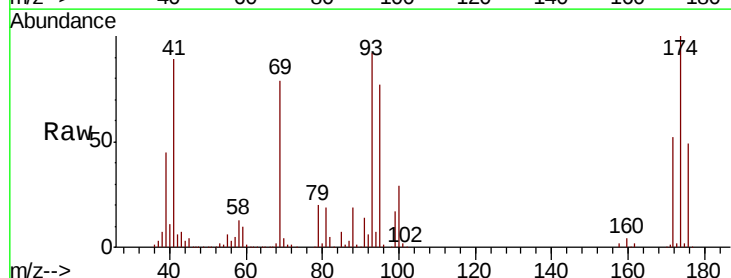
Tgt Ion: 93 Resp: 369344

Ion Ratio Lower Upper

93 100

95 84.4 67.8 101.6

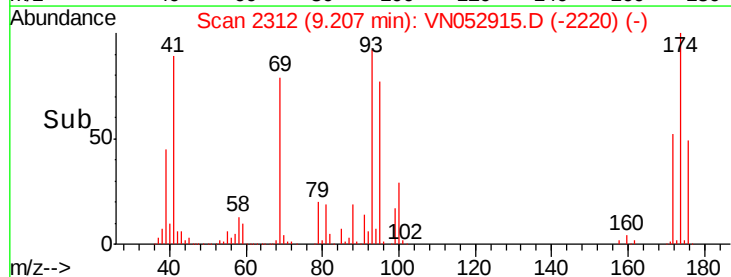
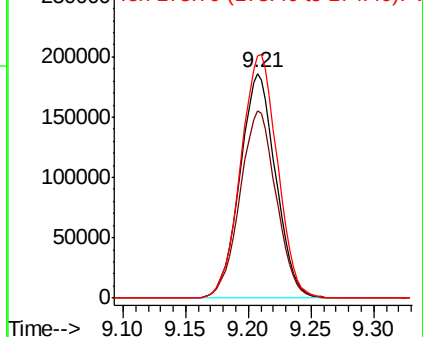
174 111.5 89.0 133.4

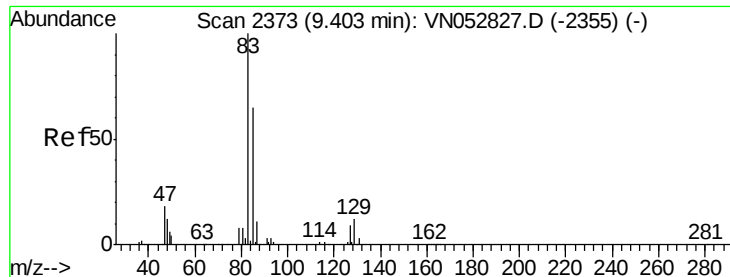


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 54.040 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

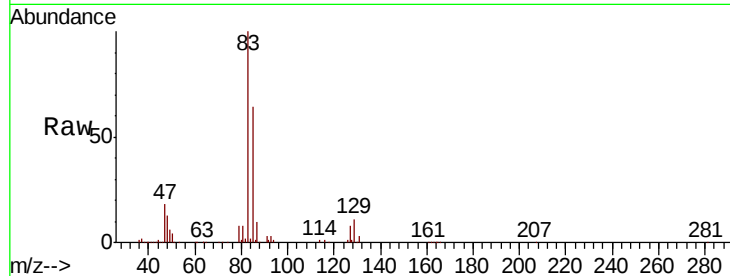
Tot Ion: 83 Resp: 818557

Ion Ratio Lower Upper

83 100

85 63.6 51.6 77.4

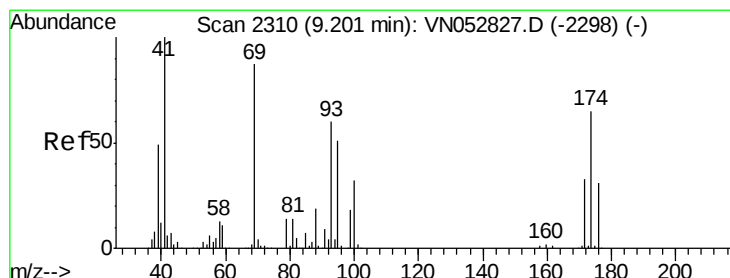
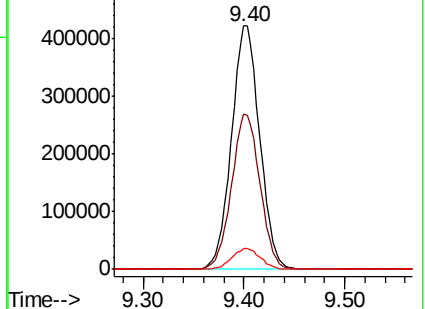
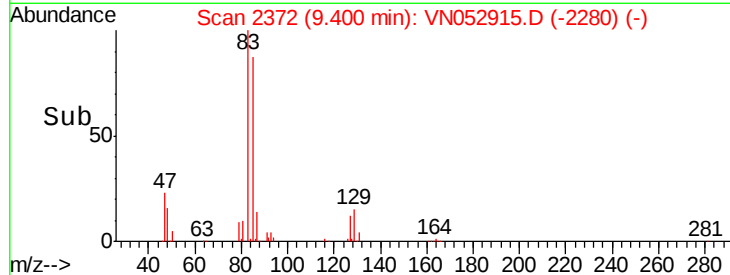
127 8.5 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VN052915.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN052915.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN052915.D (-2280) (-)



#48

Methyl methacrylate

Concen: 51.184 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

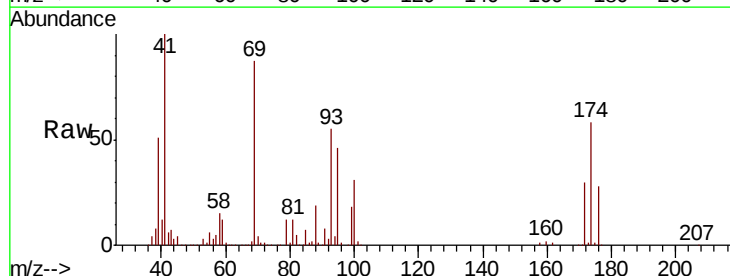
Tgt Ion: 41 Resp: 442949

Ion Ratio Lower Upper

41 100

69 89.4 72.2 108.2

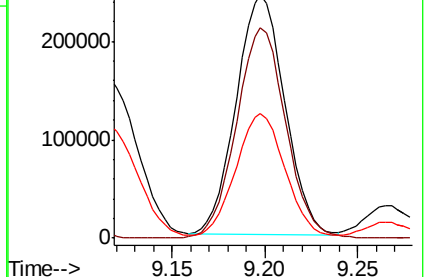
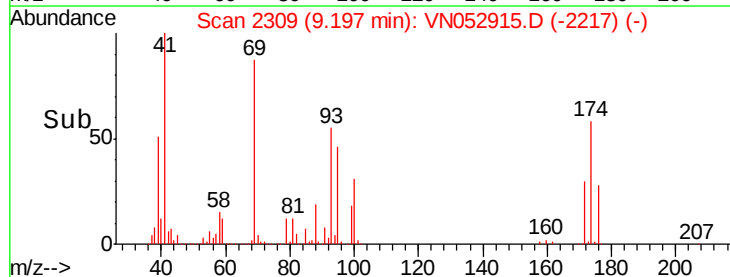
39 53.1 41.9 62.9

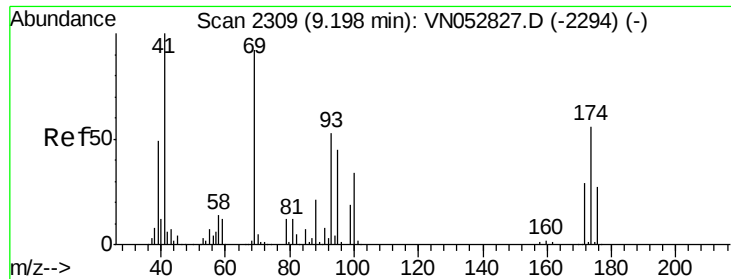


Abundance Ion 41.00 (40.70 to 41.70): VN052915.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN052915.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN052915.D (-2217) (-)

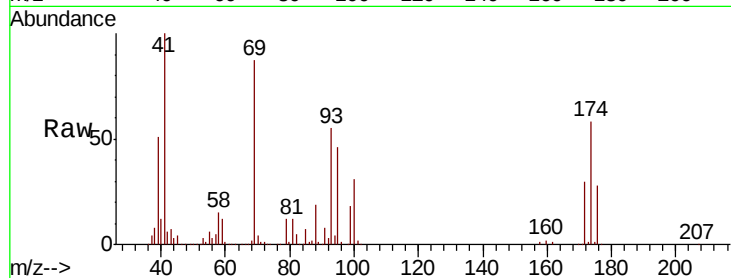




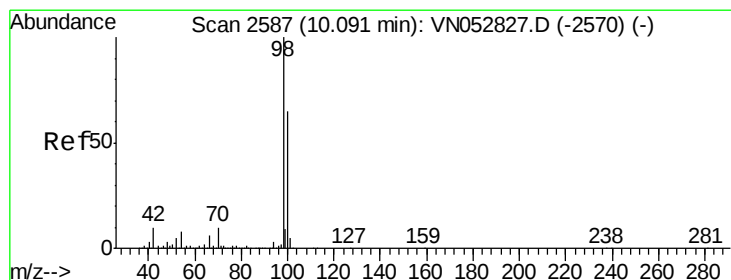
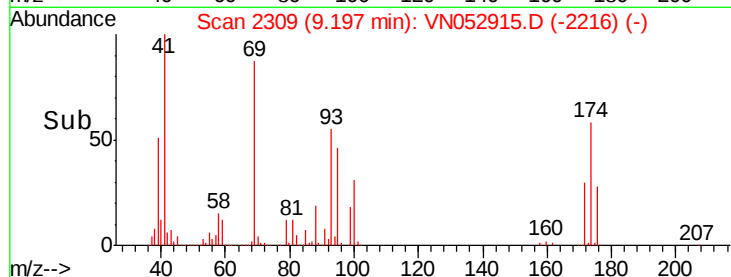
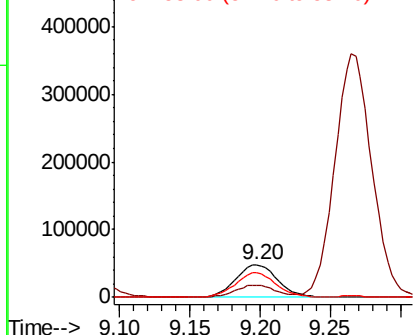
#49
 1,4-Dioxane
 Concen: 1027.130 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

Tot Ion: 88 Resp: 100895
 Ion Ratio Lower Upper
 88 100
 43 34.5 26.6 40.0
 58 72.8 58.4 87.6

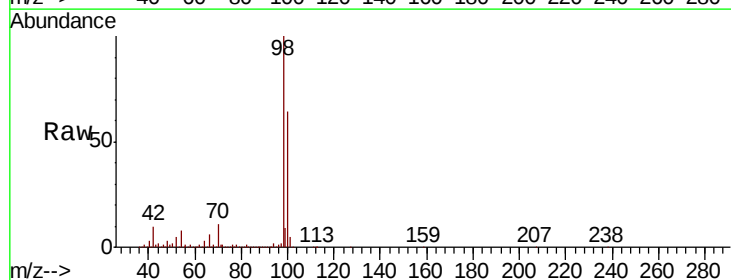


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

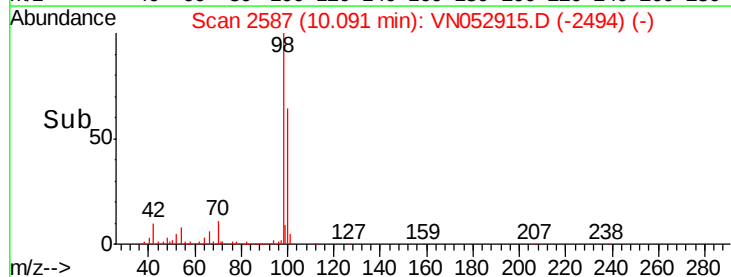
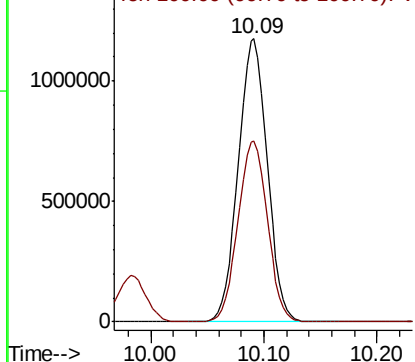


#50
 Toluene-d8
 Concen: 1027.130 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 98 Resp: 2110136
 Ion Ratio Lower Upper
 98 100
 100 64.7 51.6 77.4



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





#51

4-Methyl-2-Pentanone

Concen: 250.975 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

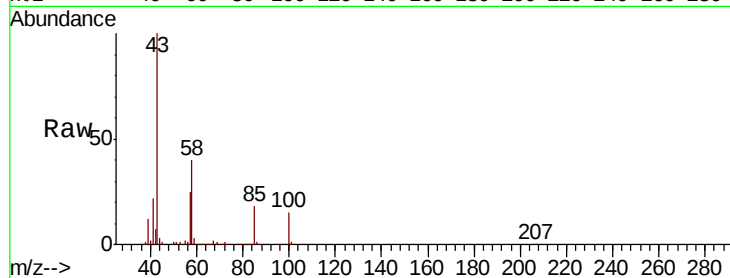
BFB

Tot Ion: 43 Resp: 2270980

Ion Ratio Lower Upper

43 100

58 40.3 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-2535) (-)

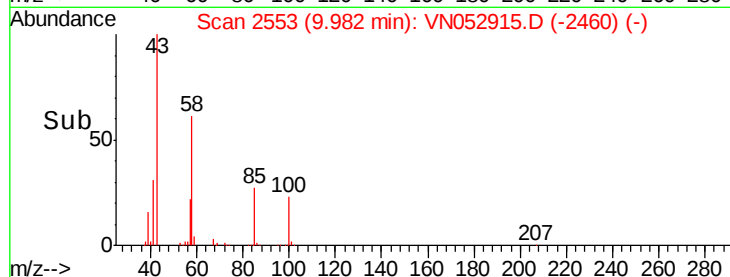
1500000

1000000

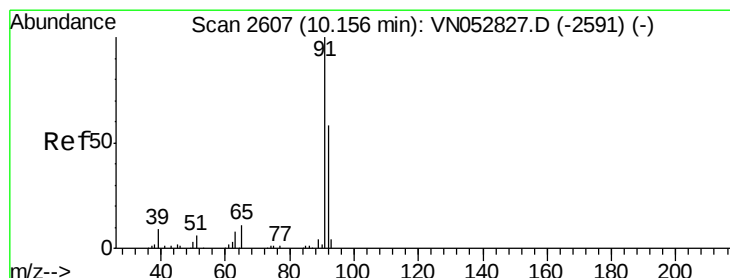
500000

0

9.90 9.98 10.00 10.10



Time-->



#52

Toluene

Concen: 52.979 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052915.D

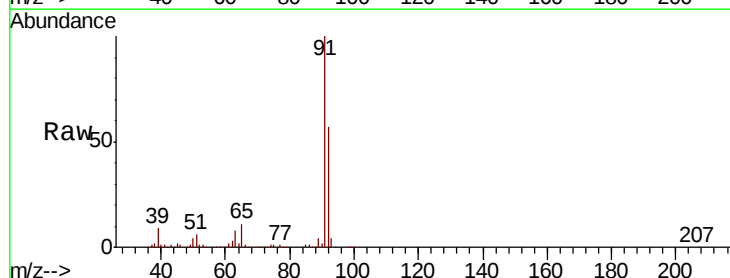
Acq: 17 Dec 2018 9:35

Tgt Ion: 92 Resp: 1542985

Ion Ratio Lower Upper

92 100

91 175.4 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN052827.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VN052827.D (-2591) (-)

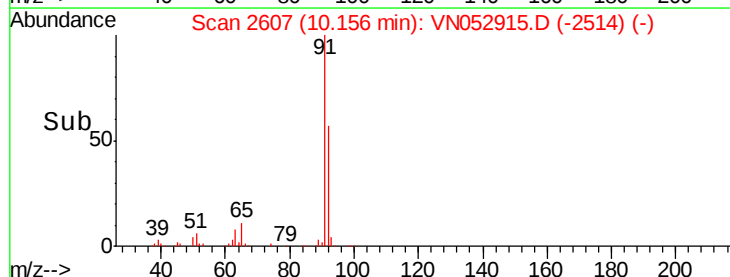
1500000

1000000

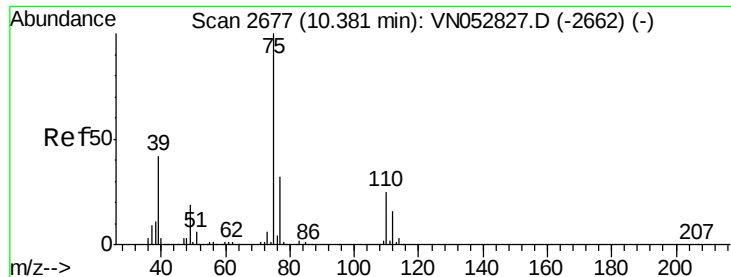
500000

0

10.00 10.10 10.16 10.20



Time-->



#53

t-1,3-Dichloropropene

Concen: 56.131 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

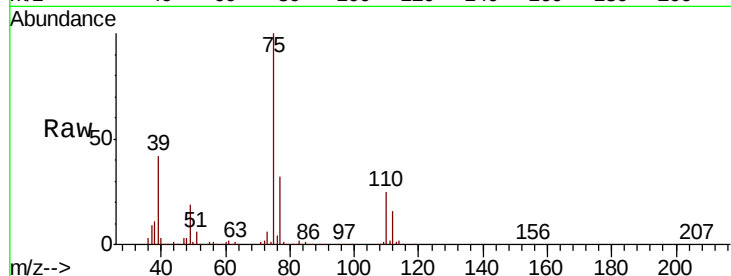
BFB

Tot Ion: 75 Resp: 855577

Ion Ratio Lower Upper

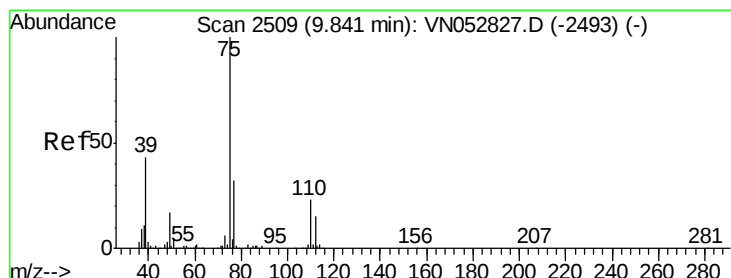
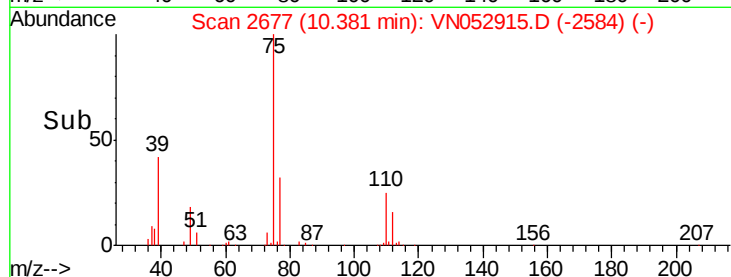
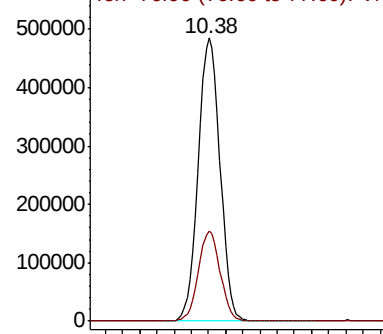
75 100

77 31.7 25.6 38.4



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 54.235 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

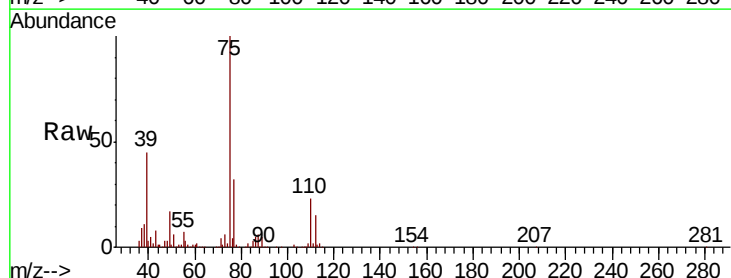
Tgt Ion: 75 Resp: 985078

Ion Ratio Lower Upper

75 100

77 31.7 25.8 38.8

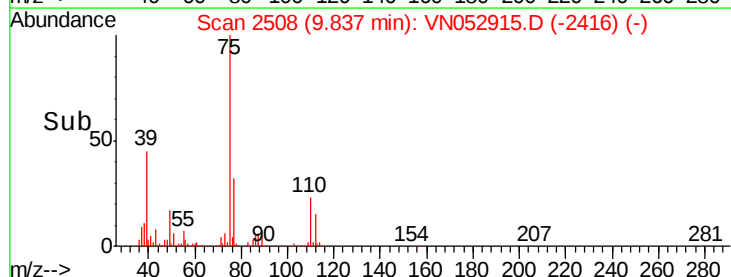
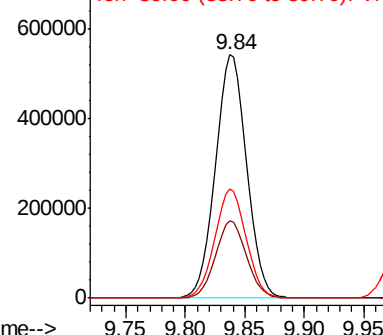
39 44.9 34.8 52.2

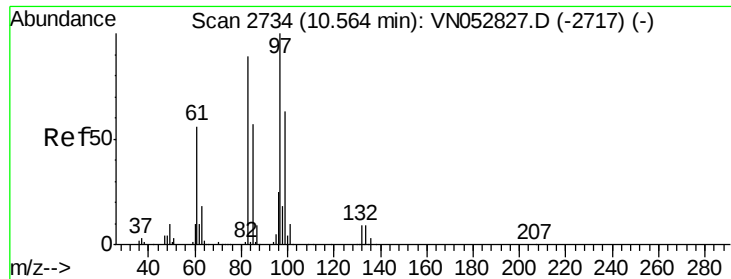


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

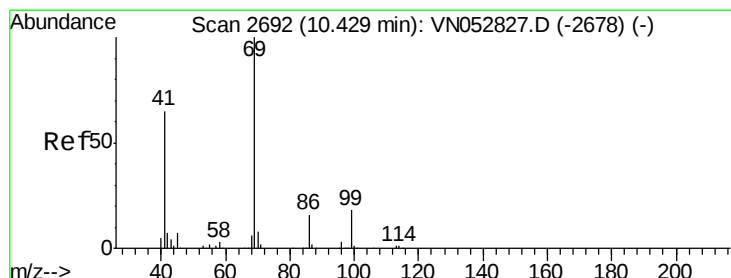
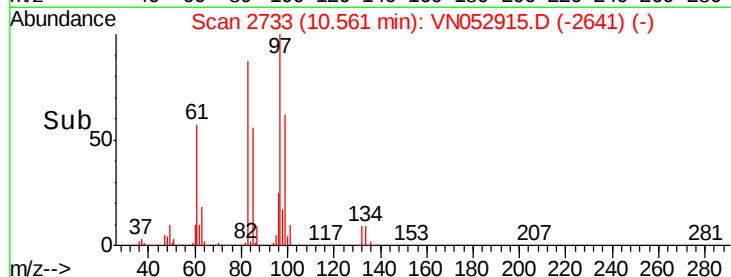
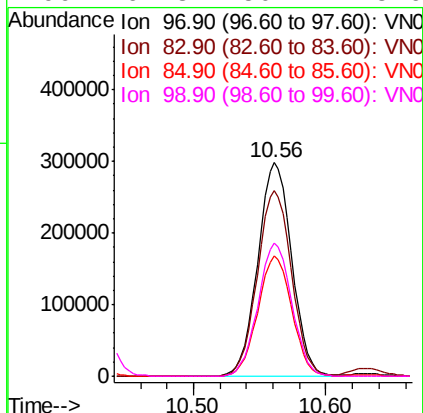
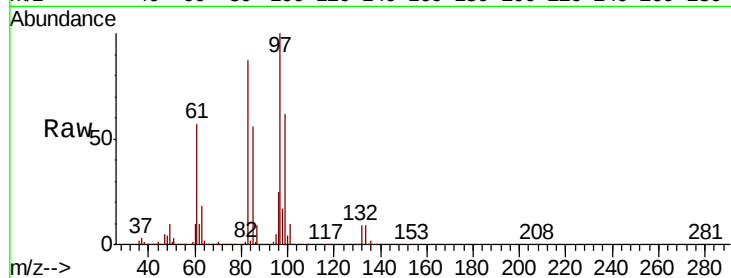




#55
 1,1,2-Trichloroethane
 Concen: 51.227 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

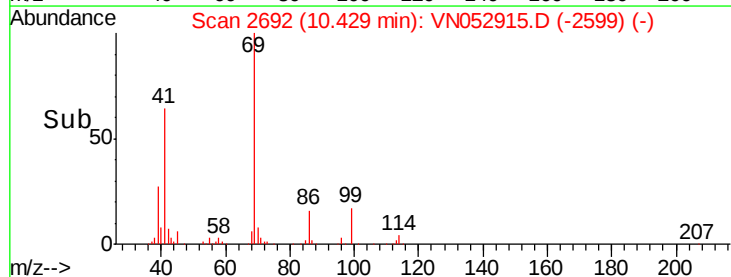
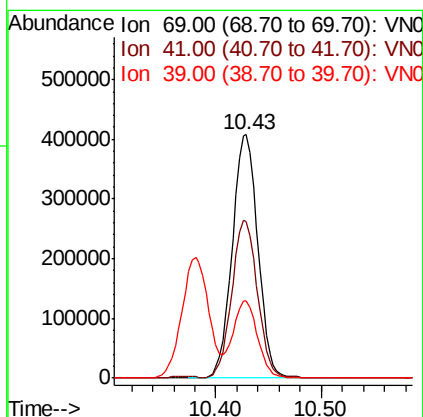
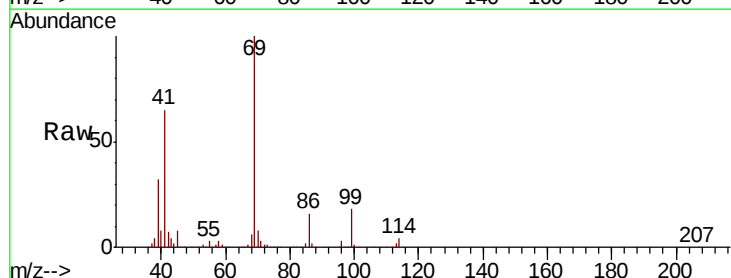
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

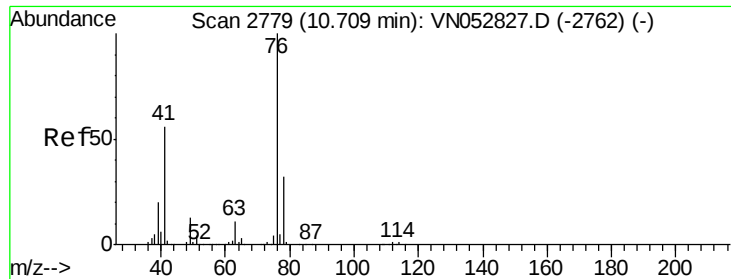
Tot Ion:	97	Resp:	532587
Ion	Ratio	Lower	Upper
97	100		
83	87.1	70.9	106.3
85	56.1	45.4	68.2
99	62.3	50.4	75.6



#56
 Ethyl methacrylate
 Concen: 51.366 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:	69	Resp:	685338
Ion	Ratio	Lower	Upper
69	100		
41	64.3	51.7	77.5
39	30.5	24.6	37.0

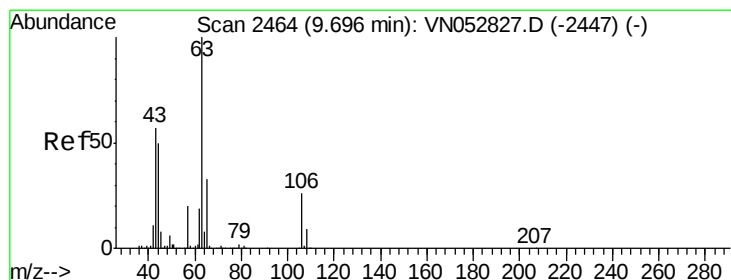
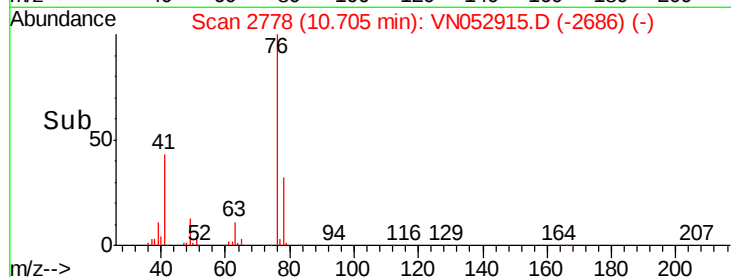
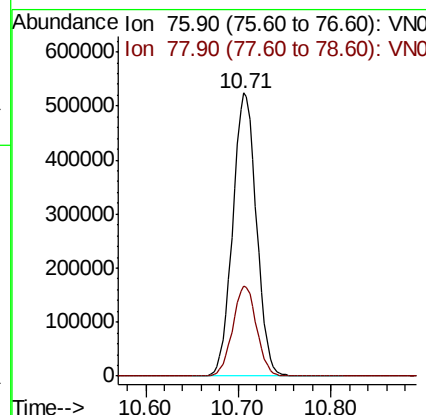
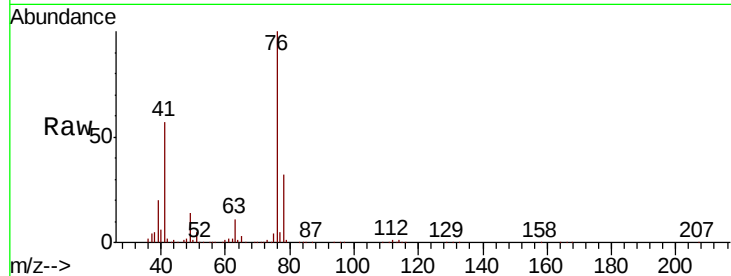




#57
 1,3-Dichloropropane
 Concen: 51.948 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

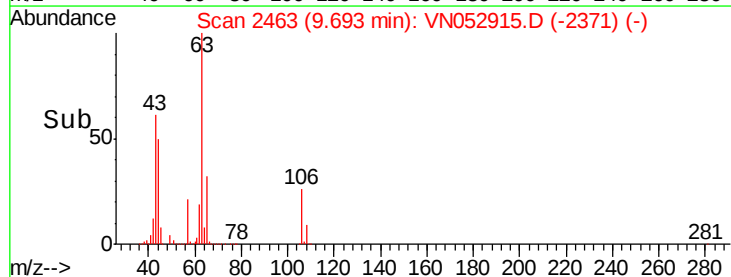
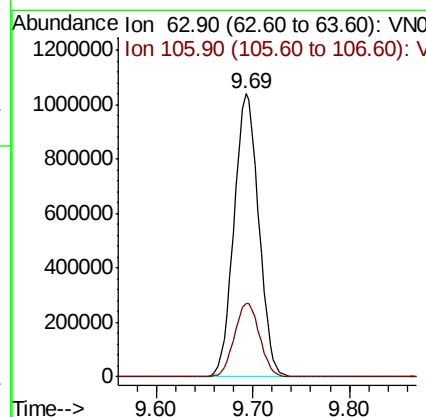
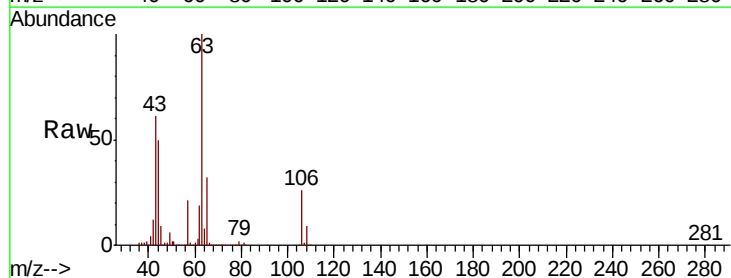
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

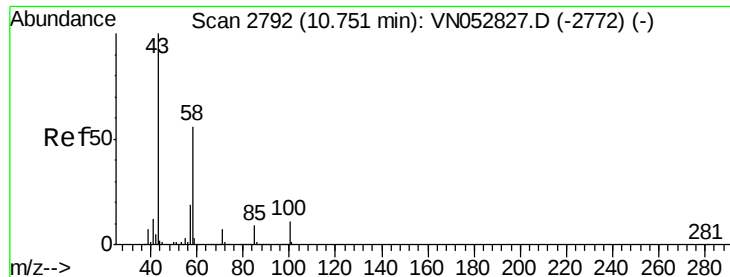
Tot Ion: 76 Resp: 926145
 Ion Ratio Lower Upper
 76 100
 78 32.0 25.8 38.8



#58
 2-Chloroethyl Vinyl ether
 Concen: 247.561 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 63 Resp: 1843024
 Ion Ratio Lower Upper
 63 100
 106 26.5 21.0 31.6

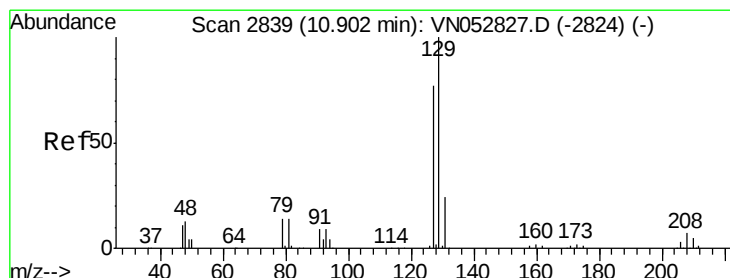
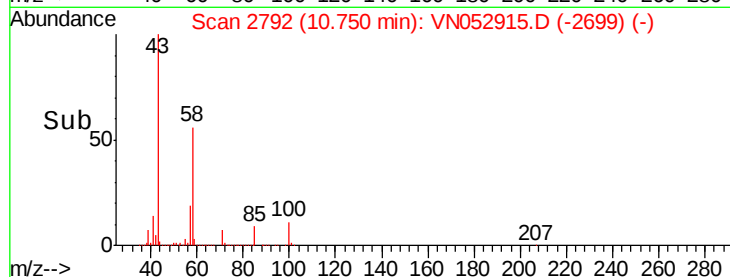
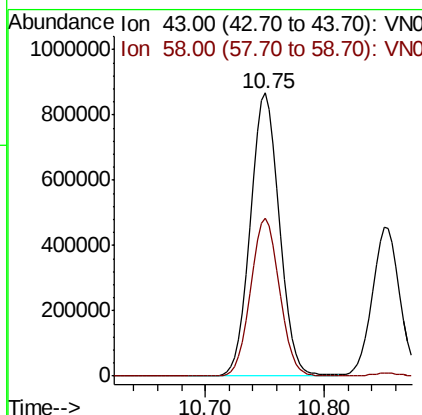
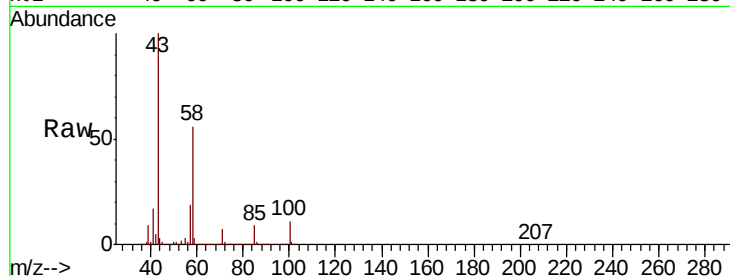




#59
2-Hexanone
Concen: 235.273 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

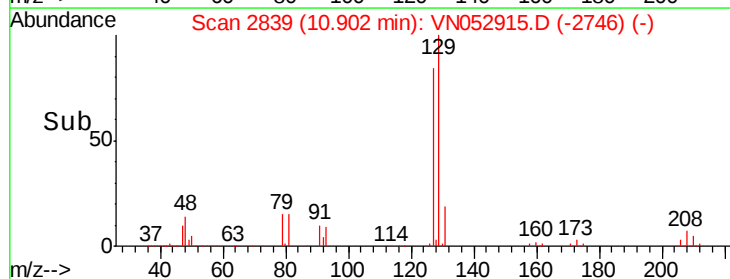
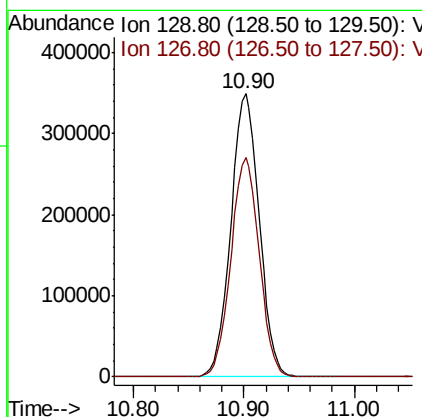
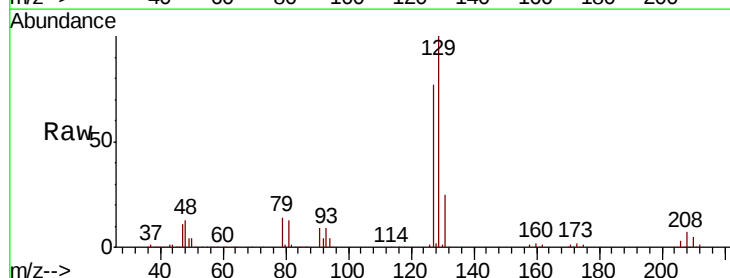
Instrument :
MSVOA_N
ClientSampleId :
BFB

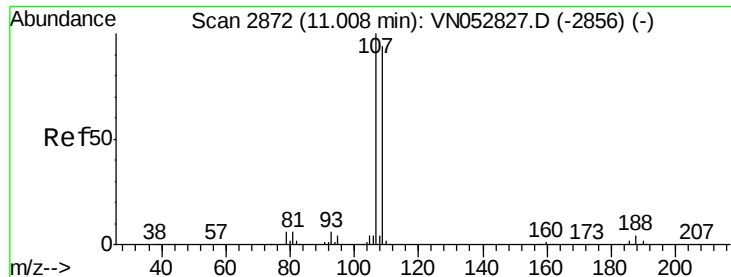
Tot Ion: 43 Resp: 1458970
Ion Ratio Lower Upper
43 100
58 55.9 28.1 84.3



#60
Dibromochloromethane
Concen: 55.398 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 129 Resp: 622463
Ion Ratio Lower Upper
129 100
127 77.4 38.6 116.0

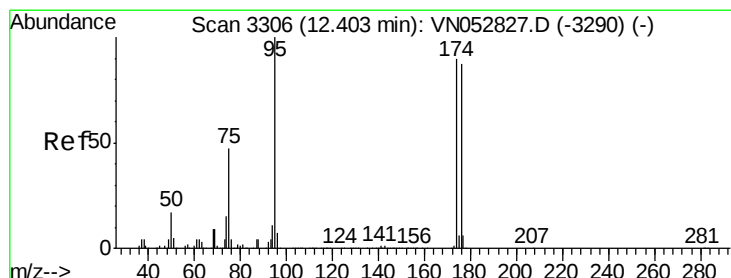
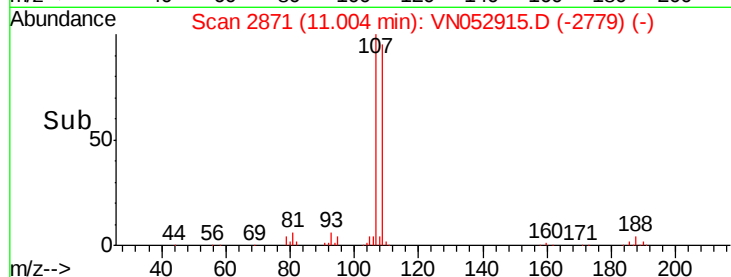
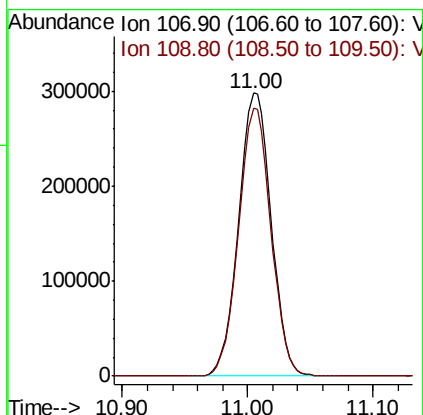
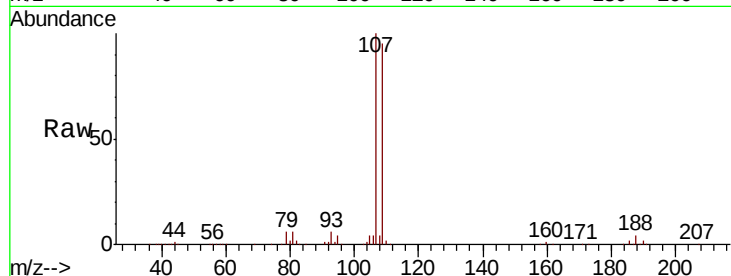




#61
 1,2-Dibromoethane
 Concen: 52.290 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

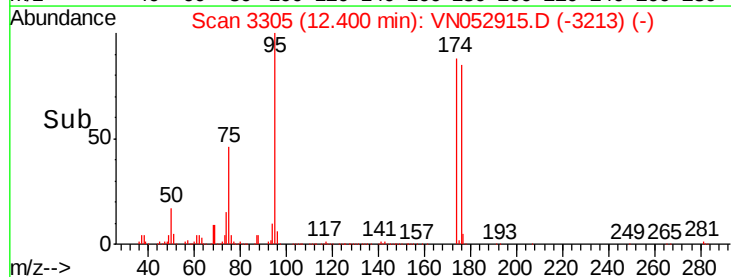
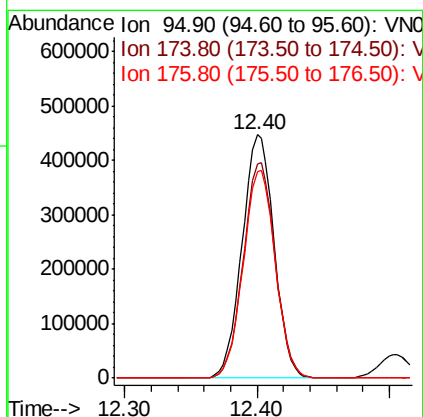
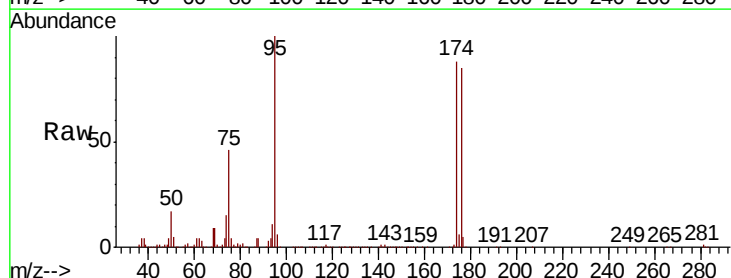
Instrument :
 MSVOA_N
 ClientSampleId :
 BFB

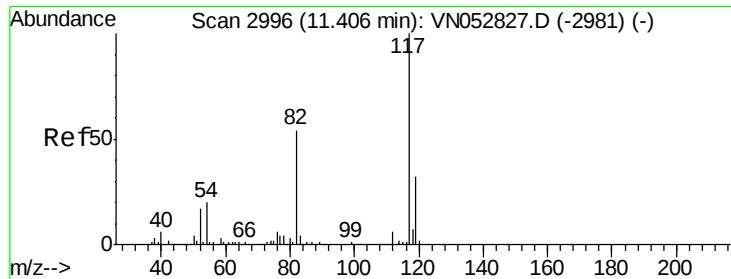
Tot Ion: 107 Resp: 537362
 Ion Ratio Lower Upper
 107 100
 109 94.0 75.4 113.0



#62
 4-Bromofluorobenzene
 Concen: 52.290 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion: 95 Resp: 746806
 Ion Ratio Lower Upper
 95 100
 174 88.4 0.0 178.8
 176 85.8 0.0 173.8

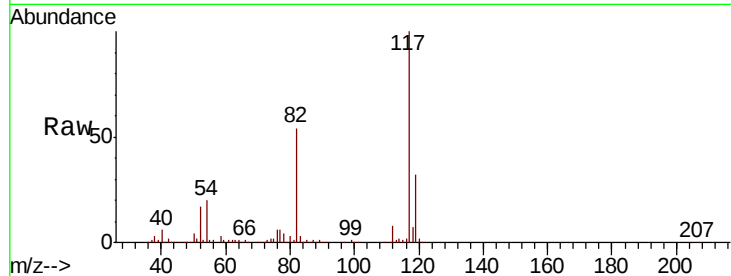




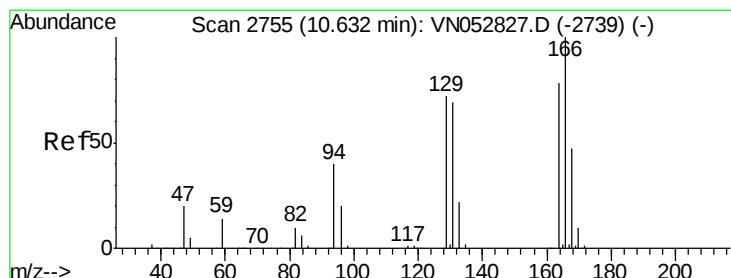
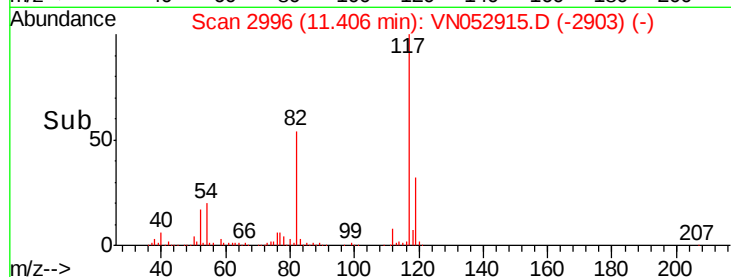
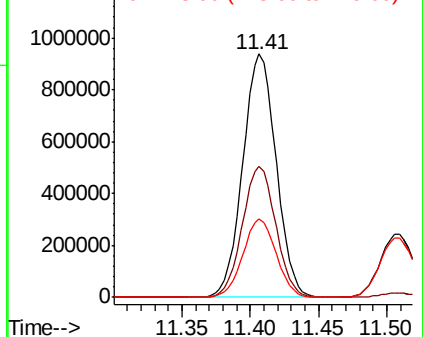
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Instrument :
MSVOA_N
ClientSampled :
BFB

Tot Ion:117 Resp: 1595359
Ion Ratio Lower Upper
117 100
82 53.7 42.8 64.2
119 32.1 25.5 38.3

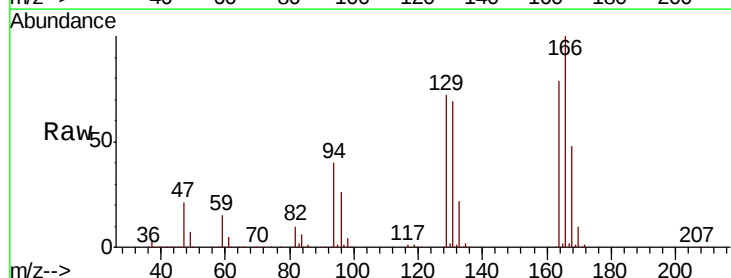


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

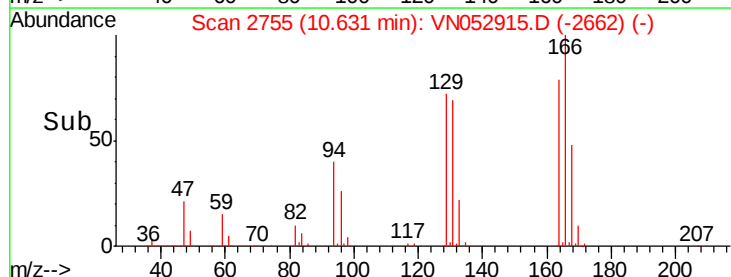
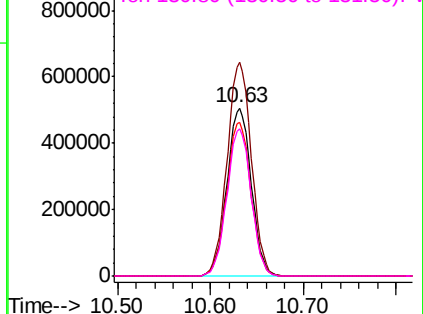


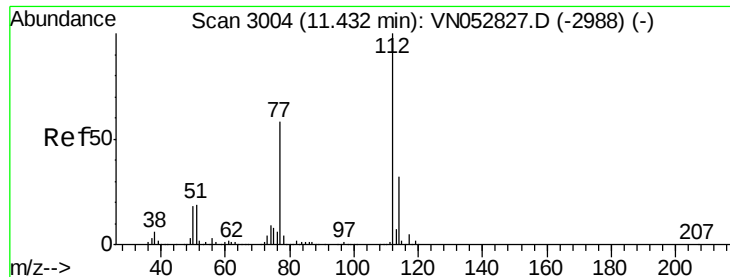
#64
Tetrachloroethene
Concen: 66.858 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:164 Resp: 916739
Ion Ratio Lower Upper
164 100
166 127.2 102.9 154.3
129 91.9 73.7 110.5
131 87.9 70.7 106.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 51.572 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

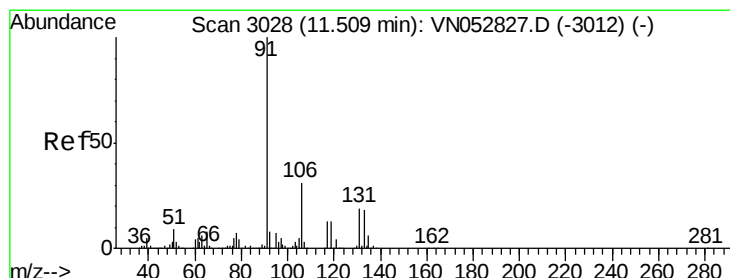
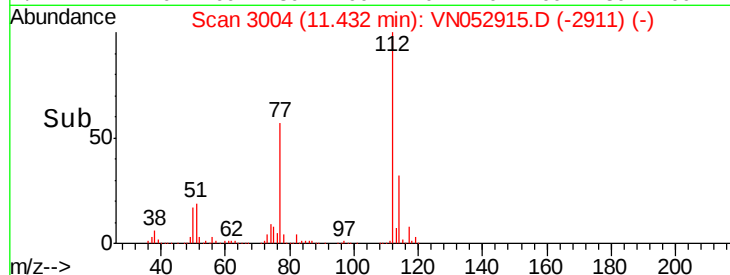
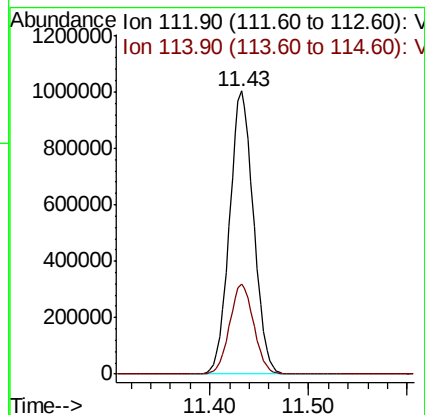
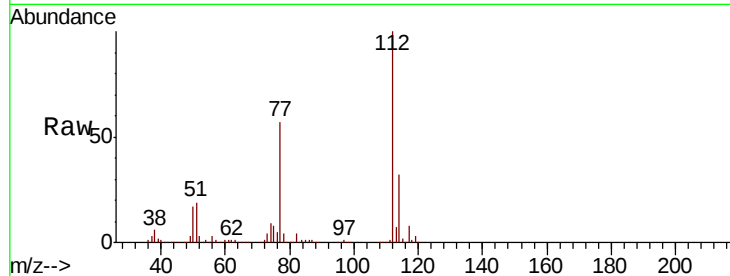
BFB

Tot Ion:112 Resp: 1706925

Ion Ratio Lower Upper

112 100

114 31.8 25.5 38.3



#66

1,1,1,2-Tetrachloroethane

Concen: 52.597 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

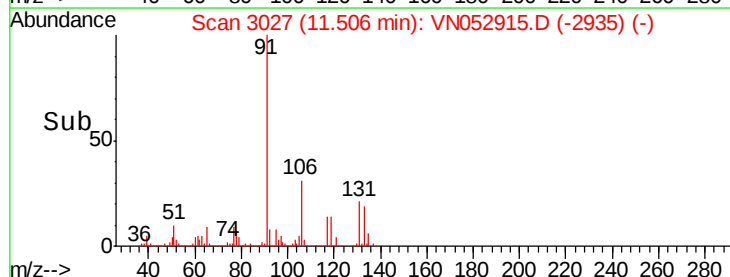
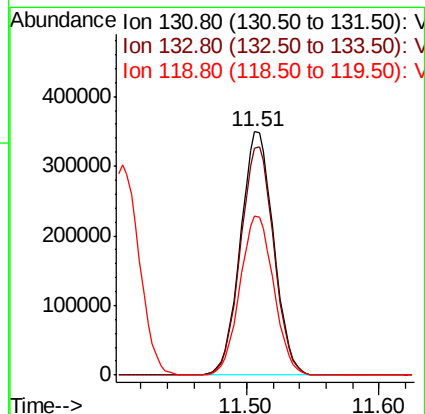
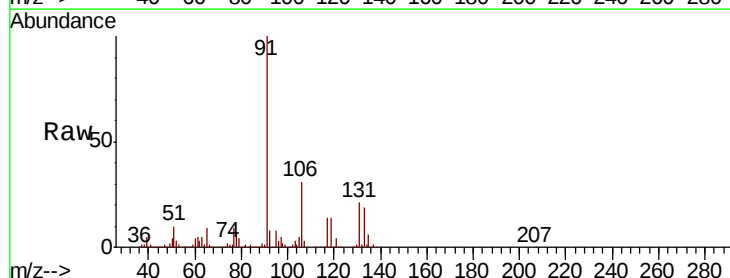
Tgt Ion:131 Resp: 605447

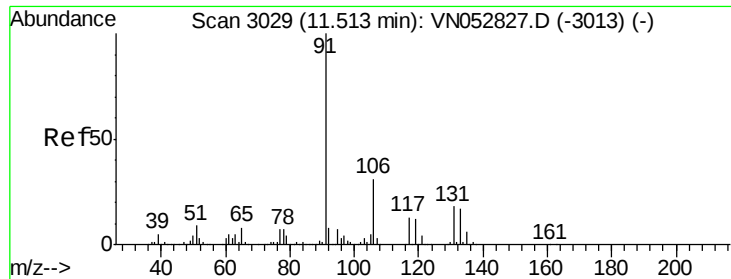
Ion Ratio Lower Upper

131 100

133 94.8 47.6 142.9

119 66.6 33.3 99.8

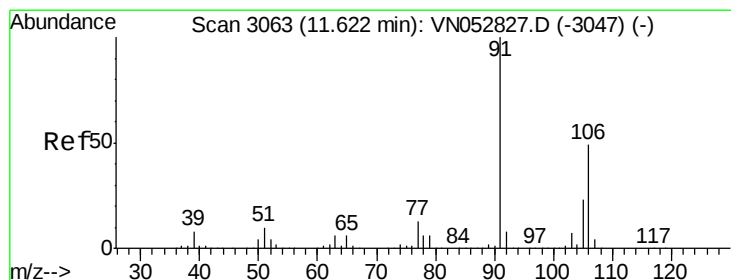
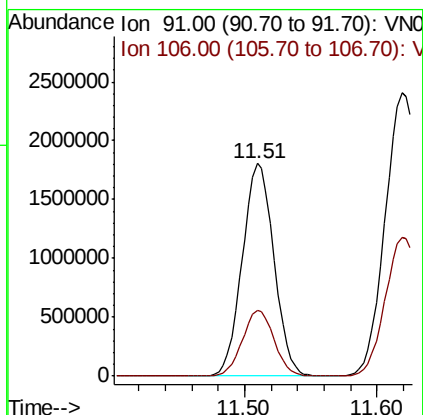
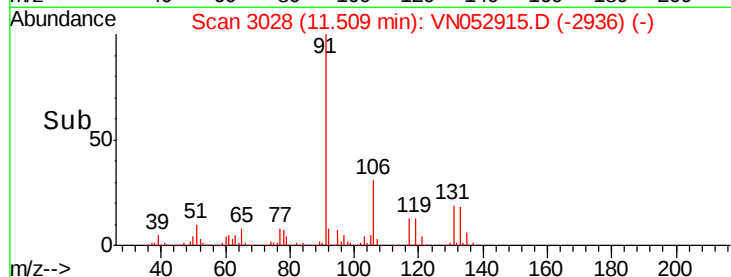
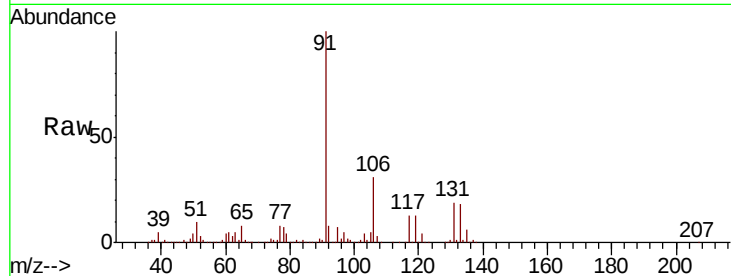




#67
Ethyl Benzene
Concen: 52.662 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

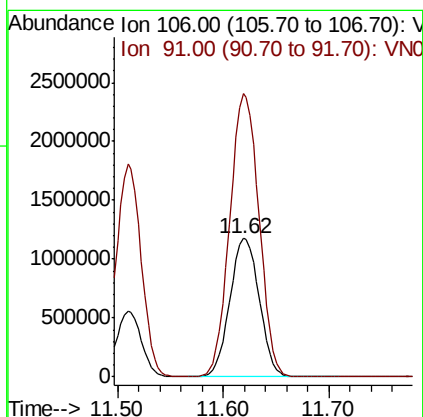
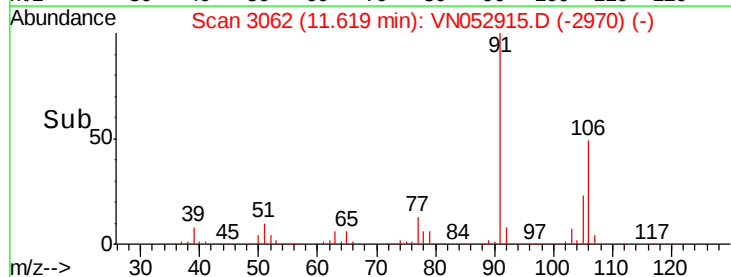
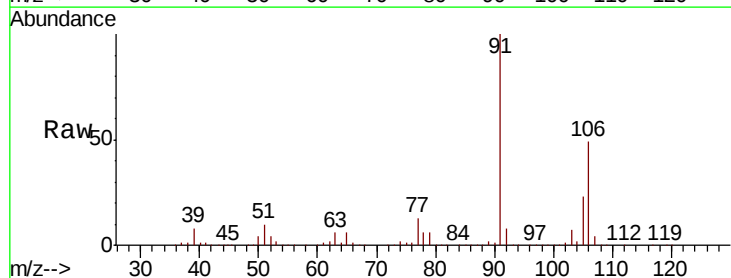
Instrument :
MSVOA_N
ClientSampled :
BFB

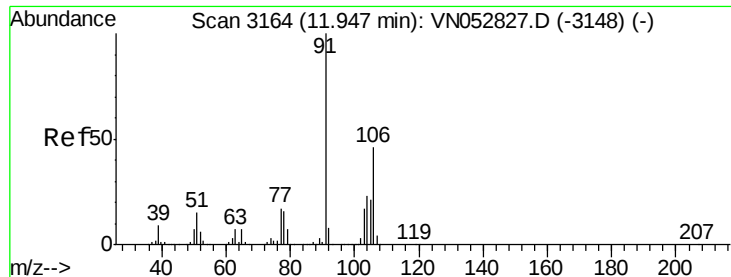
Tot Ion: 91 Resp: 2993253
Ion Ratio Lower Upper
91 100
106 30.9 24.9 37.3



#68
m/p-Xylenes
Concen: 106.277 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 106 Resp: 2268238
Ion Ratio Lower Upper
106 100
91 203.3 162.2 243.4

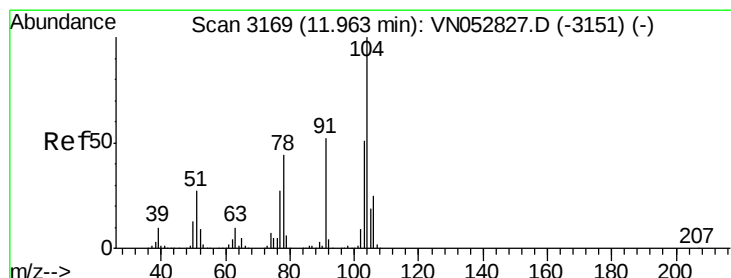
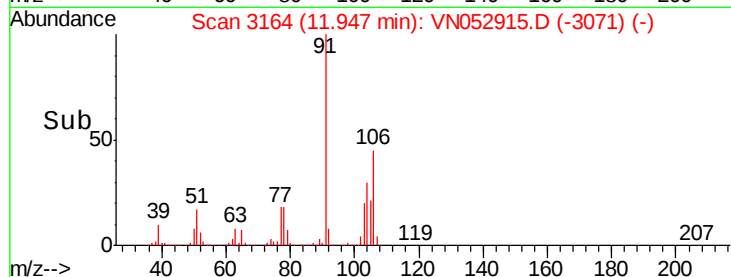
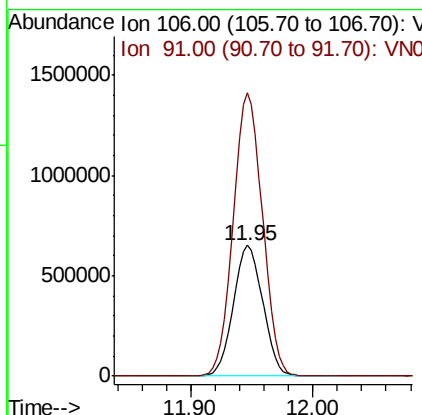
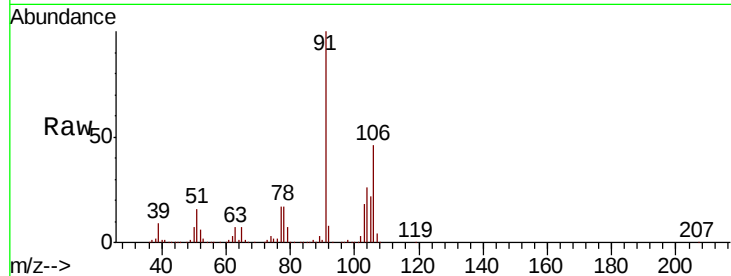




#69
o-Xylene
Concen: 52.181 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

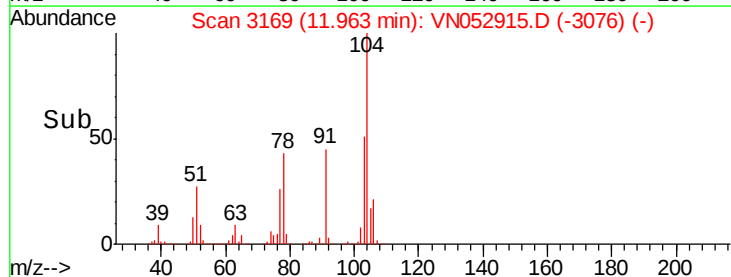
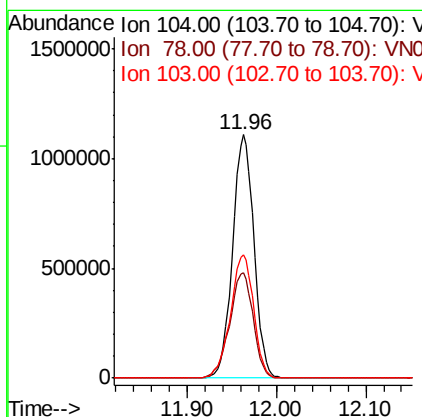
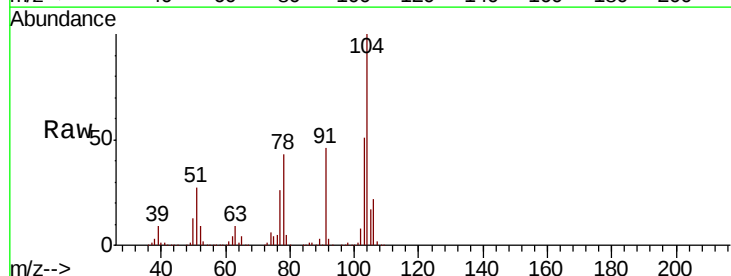
Instrument :
MSVOA_N
ClientSampled :
BFB

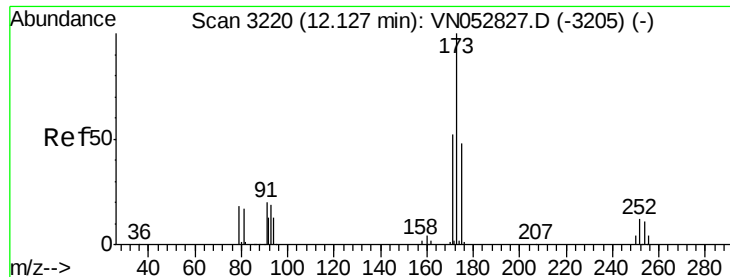
Tot Ion:106 Resp: 1087486
Ion Ratio Lower Upper
106 100
91 215.8 106.6 319.8



#70
Styrene
Concen: 54.589 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion:104 Resp: 1828836
Ion Ratio Lower Upper
104 100
78 47.7 38.9 58.3
103 55.0 44.3 66.5





#71

Bromoform

Concen: 55.553 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

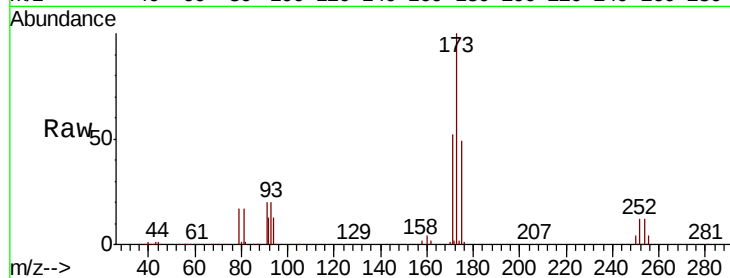
Tot Ion:173 Resp: 434437

Ion Ratio Lower Upper

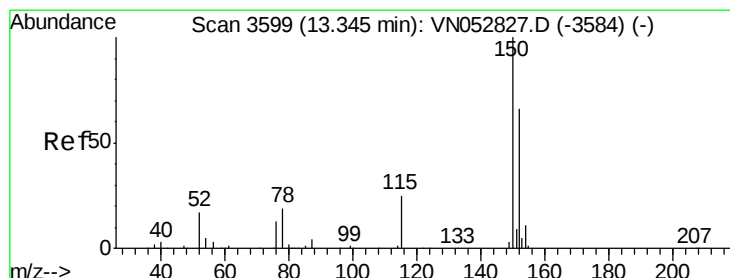
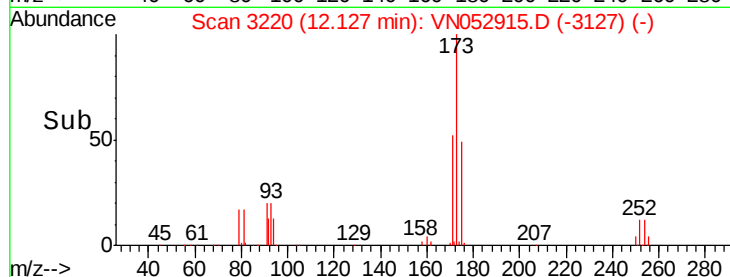
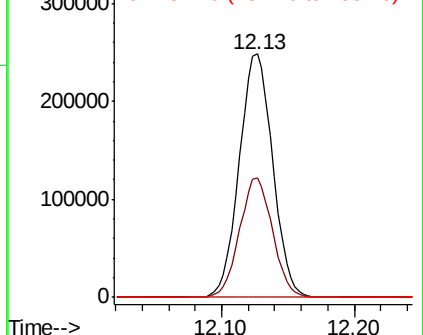
173 100

175 48.4 24.3 72.9

254 0.2 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

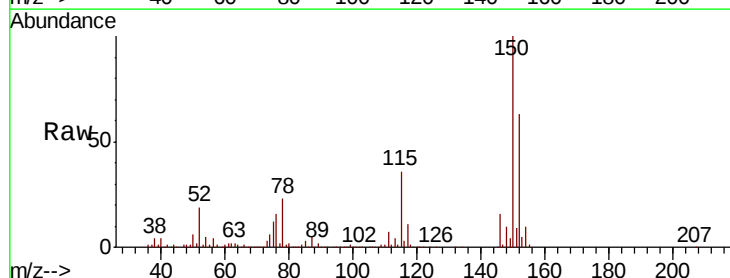
Tgt Ion:152 Resp: 746351

Ion Ratio Lower Upper

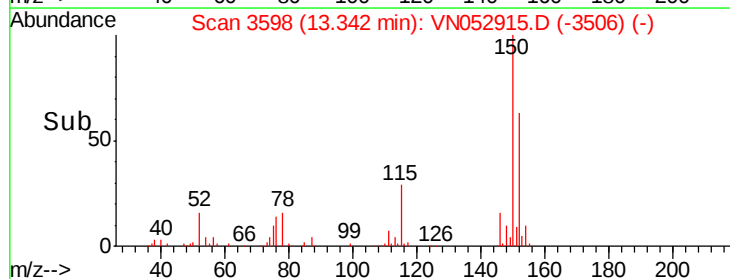
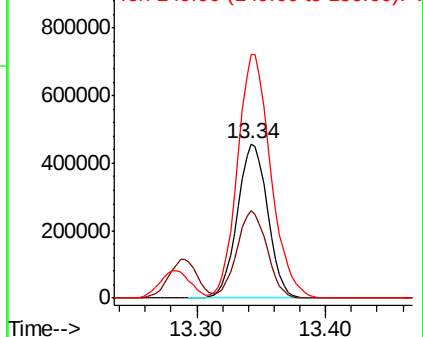
152 100

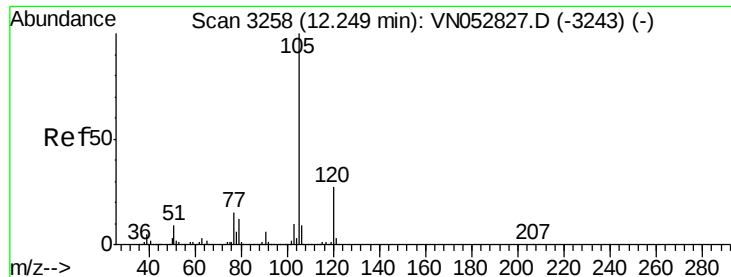
115 56.1 28.3 85.0

150 173.3 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 52.847 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

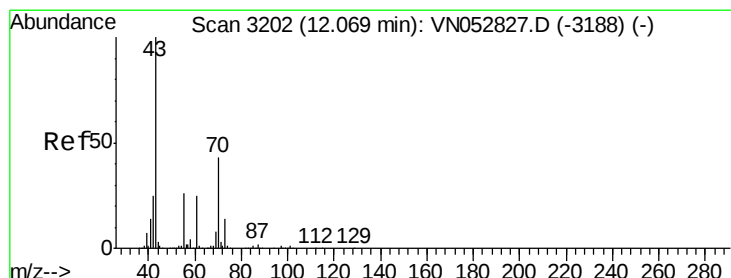
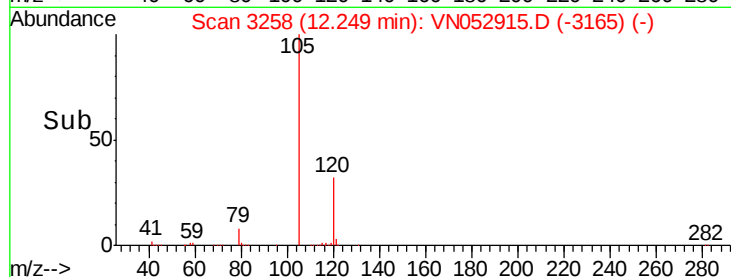
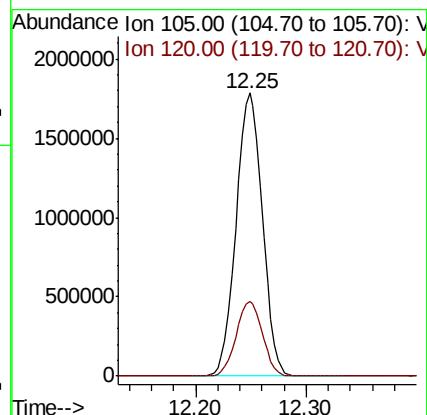
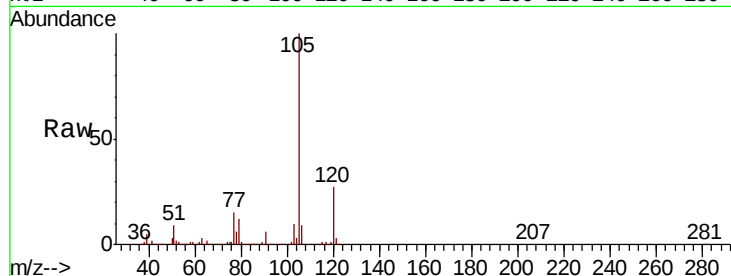
BFB

Tot Ion:105 Resp: 2944910

Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.9



#74

N-ethyl acetate

Concen: 50.932 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Tgt Ion: 43 Resp: 779198

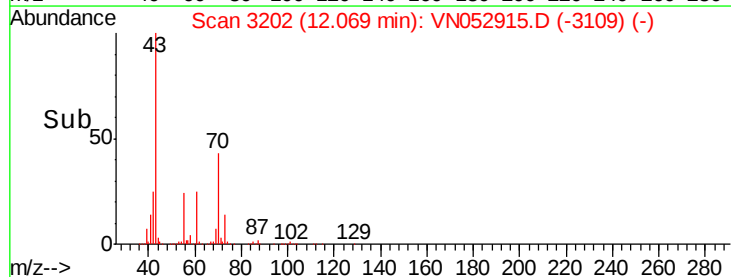
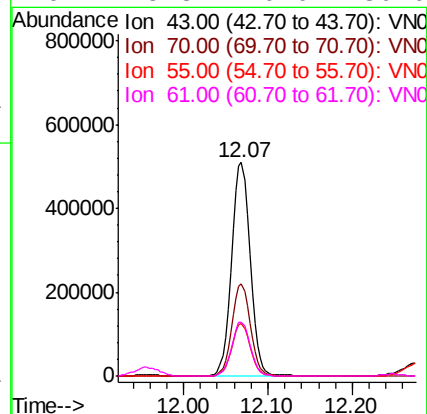
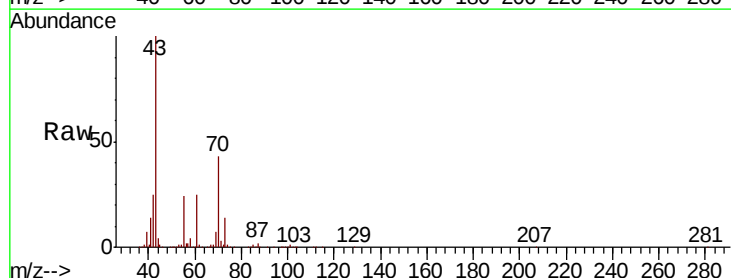
Ion Ratio Lower Upper

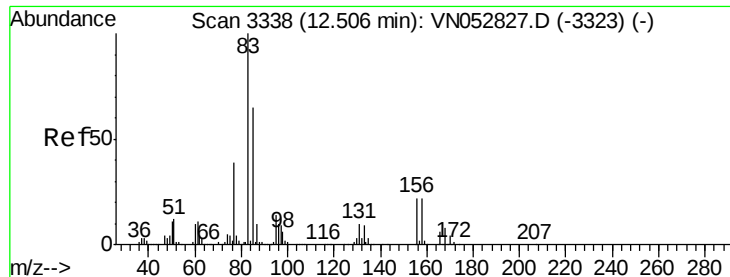
43 100

70 43.0 34.2 51.4

55 24.5 20.3 30.5

61 25.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 38.863 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

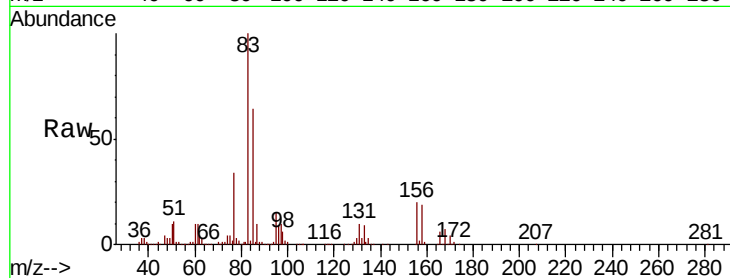
Tot Ion: 83 Resp: 485358

Ion Ratio Lower Upper

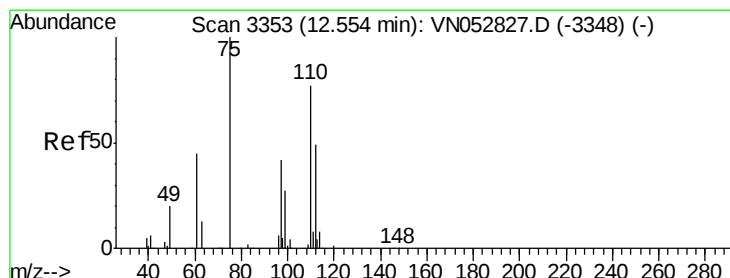
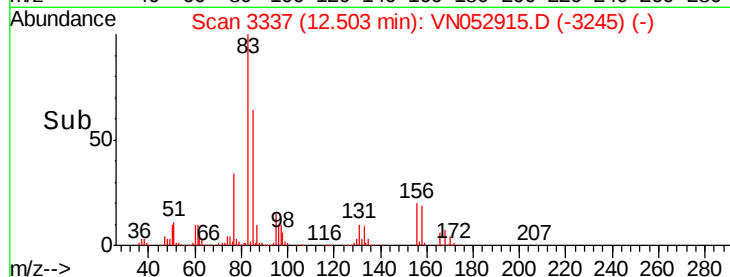
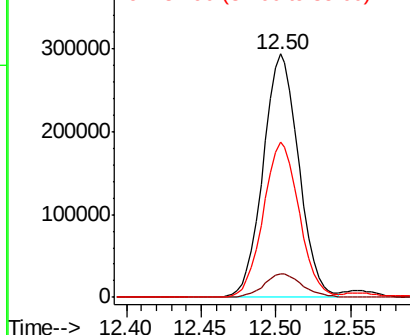
83 100

131 10.4 5.2 15.6

85 64.3 32.4 97.0



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 75.825 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN052915.D

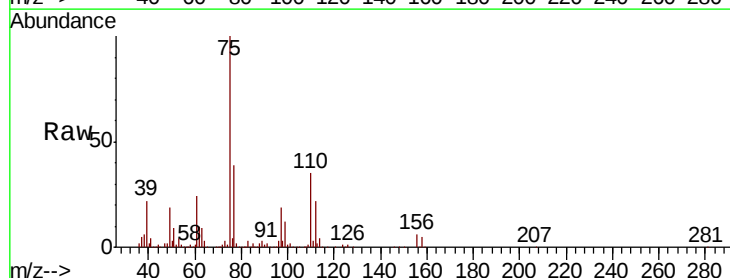
Acq: 17 Dec 2018 9:35

Tgt Ion: 75 Resp: 834951

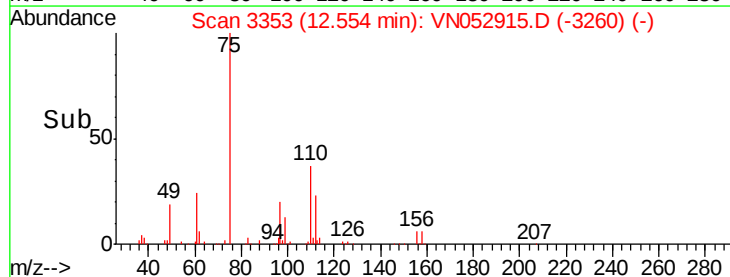
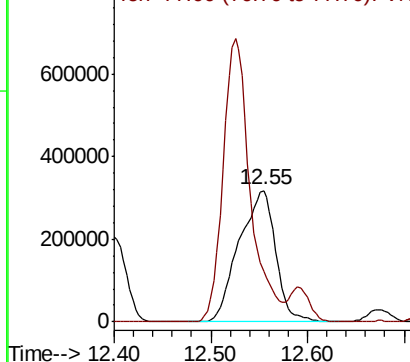
Ion Ratio Lower Upper

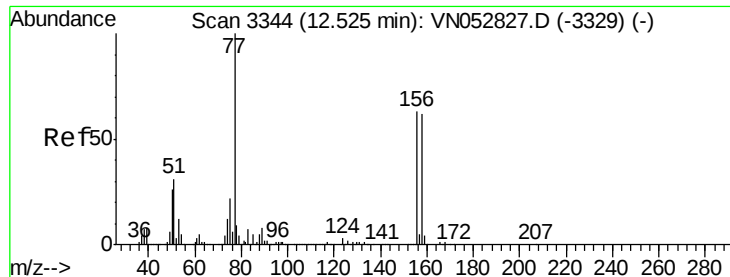
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 77.00 (76.70 to 77.70): VNO





#77

Bromobenzene

Concen: 52.363 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

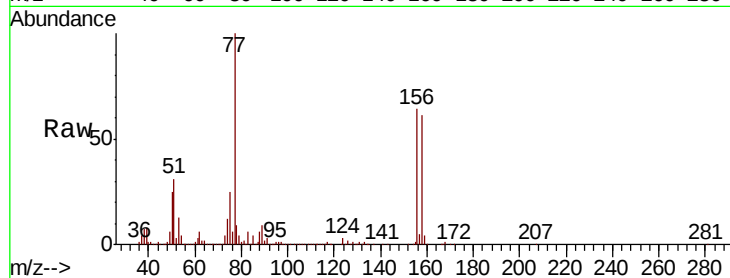
Tot Ion:156 Resp: 742168

Ion Ratio Lower Upper

156 100

77 180.4 91.3 273.8

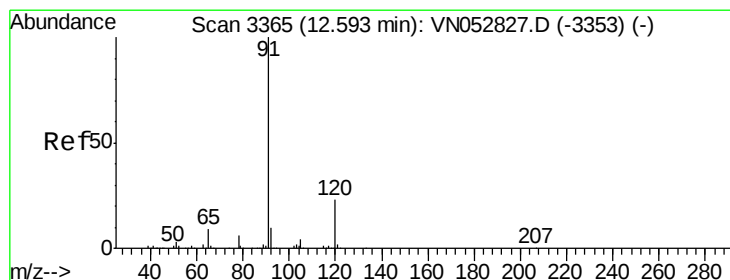
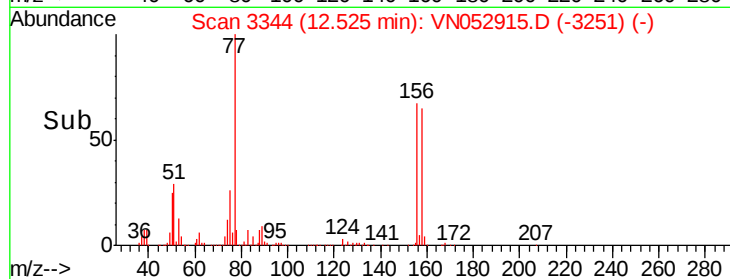
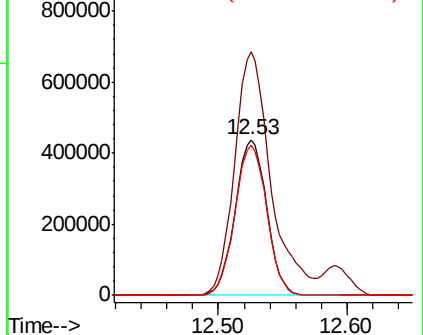
158 97.1 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 54.036 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN052915.D

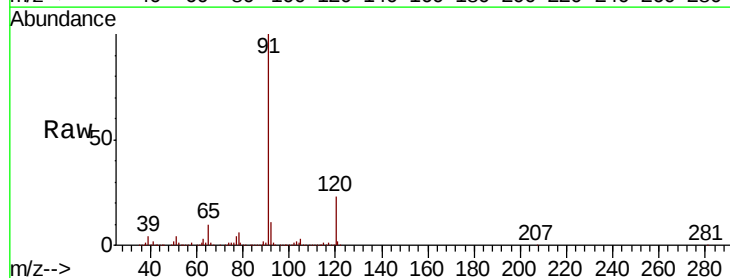
Acq: 17 Dec 2018 9:35

Tgt Ion: 91 Resp: 3434175

Ion Ratio Lower Upper

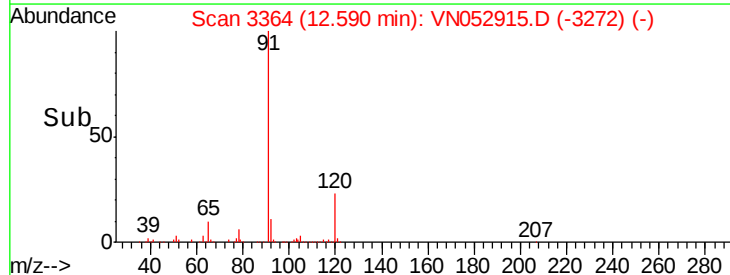
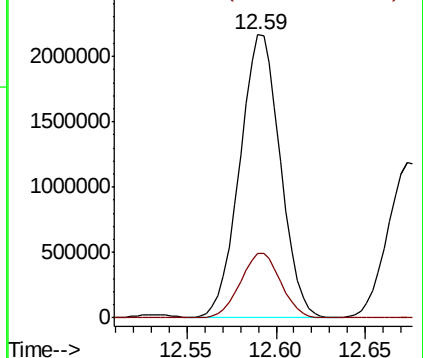
91 100

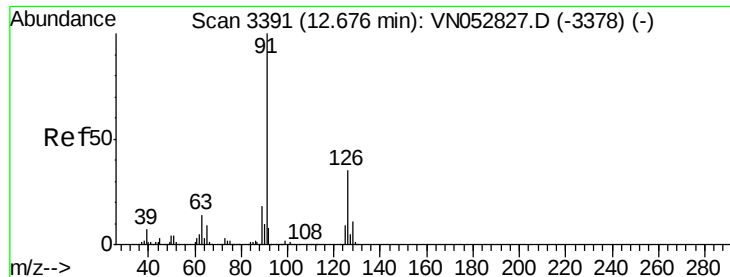
120 22.8 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

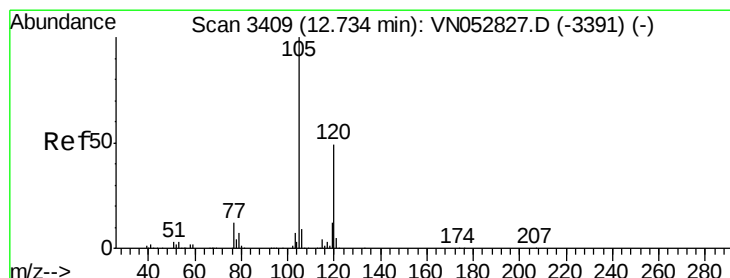
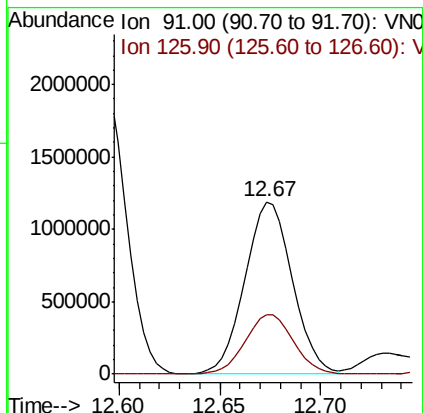
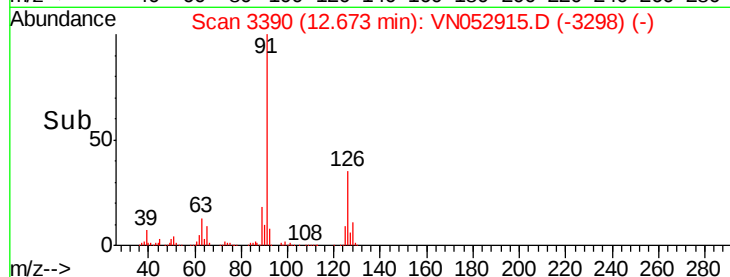
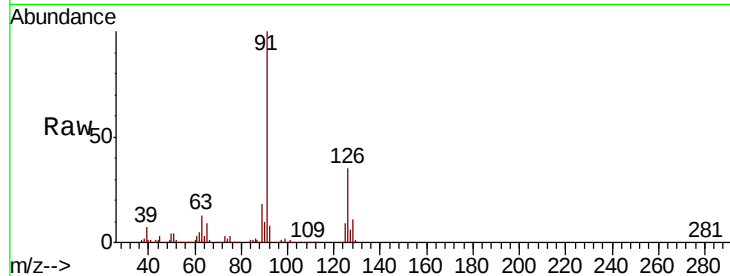




#79
 2-Chlorotoluene
 Concen: 52.178 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

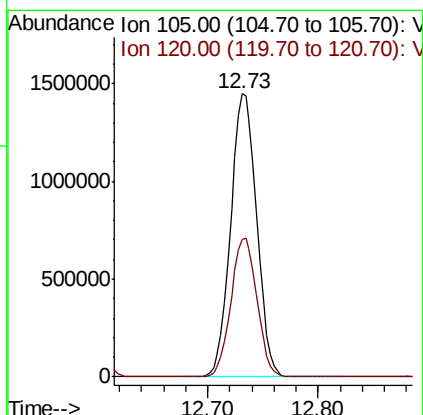
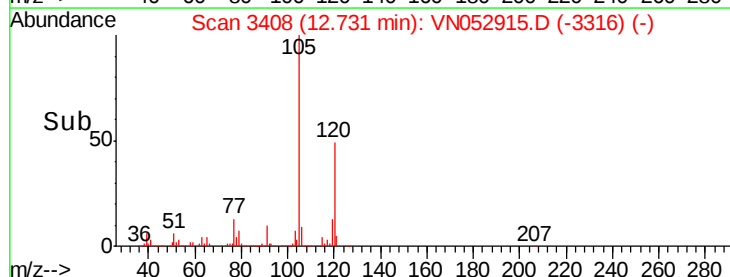
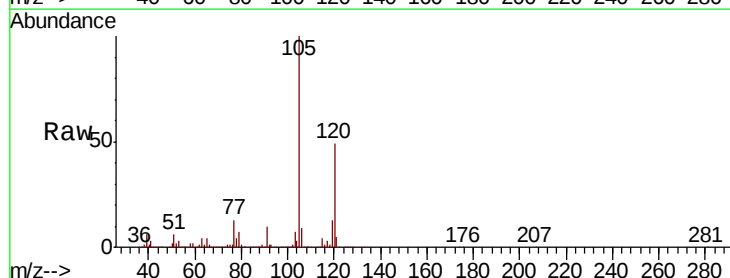
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

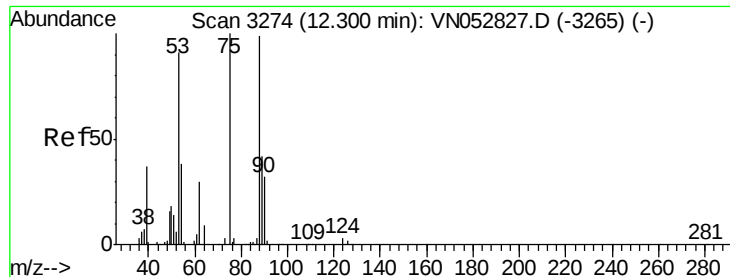
Tot Ion: 91 Resp: 1960444
 Ion Ratio Lower Upper
 91 100
 126 35.0 17.4 52.3



#80
 1,3,5-Trimethylbenzene
 Concen: 52.493 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion:105 Resp: 2361362
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.4 73.2





#81

trans-1,4-Dichloro-2-butene

Concen: 59.170 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

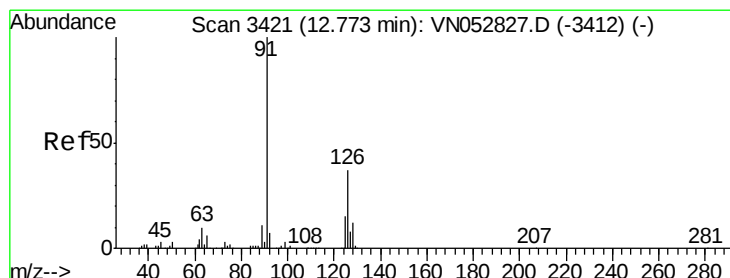
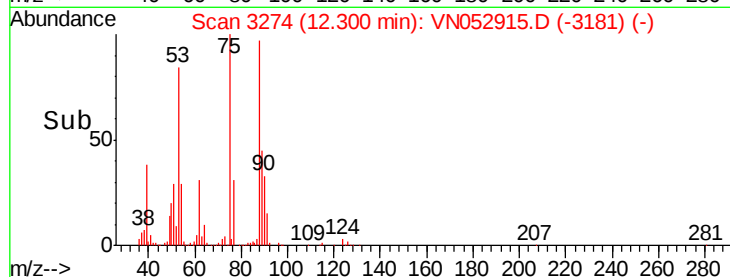
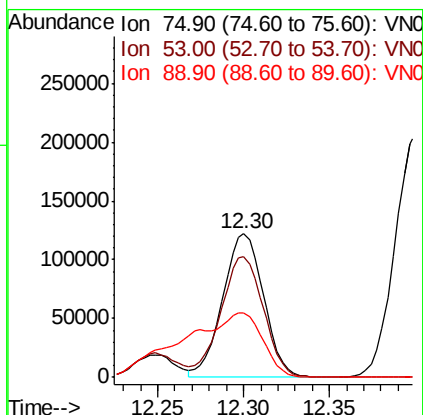
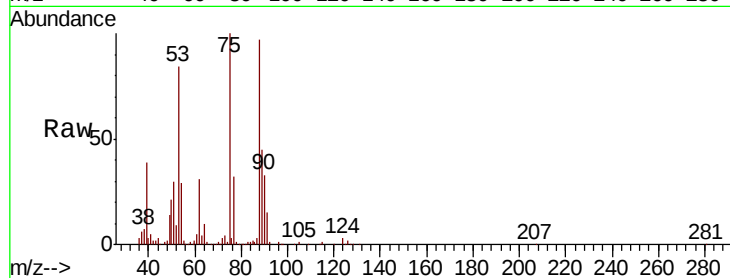
Tot Ion: 75 Resp: 202821

Ion Ratio Lower Upper

75 100

53 88.1 74.7 112.1

89 88.6 36.1 54.1#



#82

4-Chlorotoluene

Concen: 52.526 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN052915.D

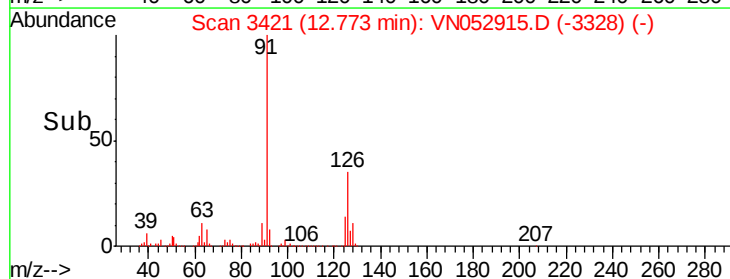
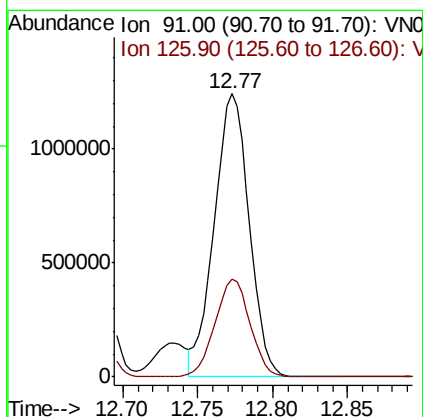
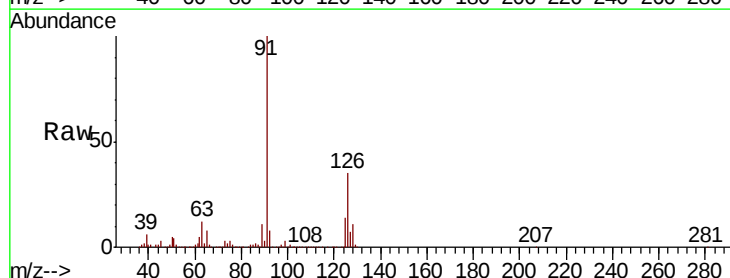
Acq: 17 Dec 2018 9:35

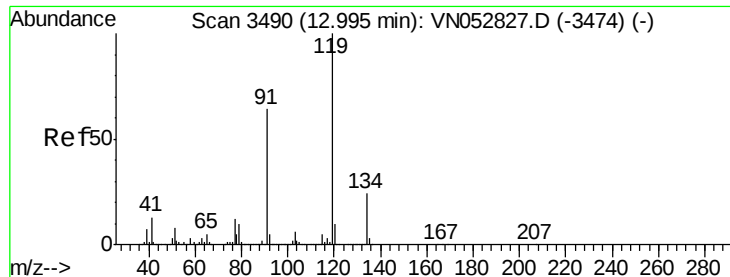
Tgt Ion: 91 Resp: 2017797

Ion Ratio Lower Upper

91 100

126 34.6 17.3 51.7





#83

tert-Butylbenzene

Concen: 51.526 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

BFB

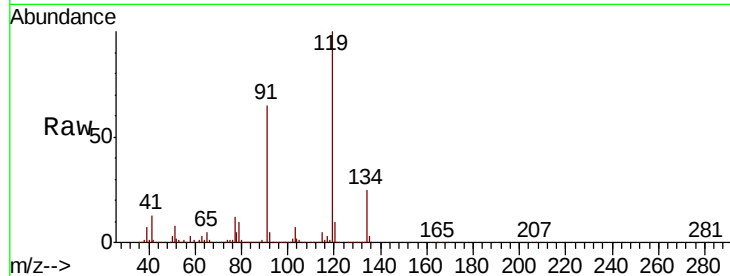
Tot Ion:119 Resp: 2044655

Ion Ratio Lower Upper

119 100

91 64.1 31.9 95.5

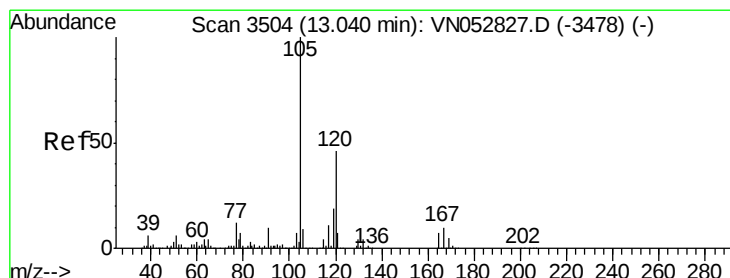
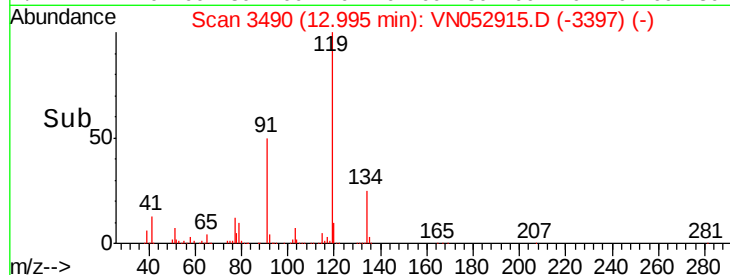
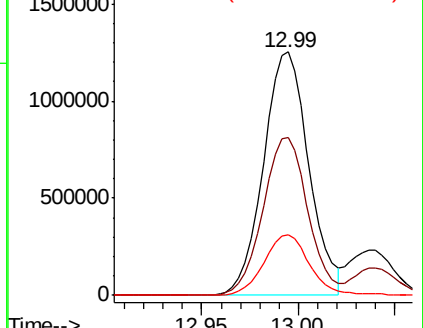
134 25.1 12.8 38.4



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 52.566 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN052915.D

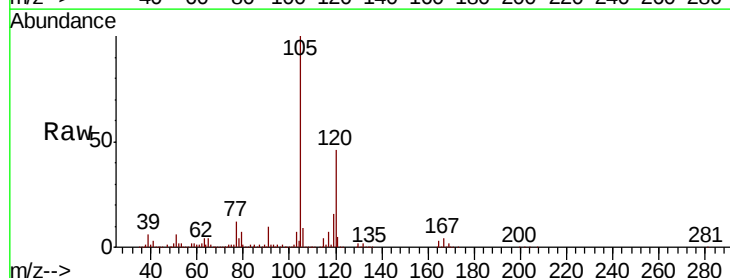
Acq: 17 Dec 2018 9:35

Tgt Ion:105 Resp: 2393887

Ion Ratio Lower Upper

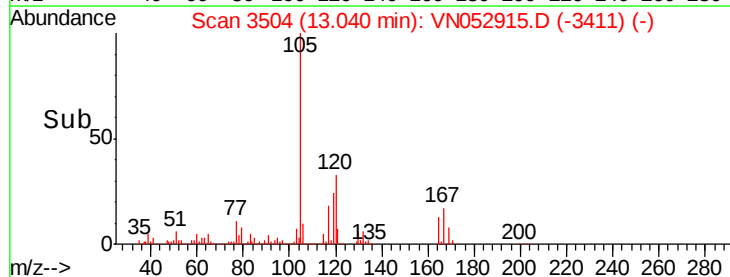
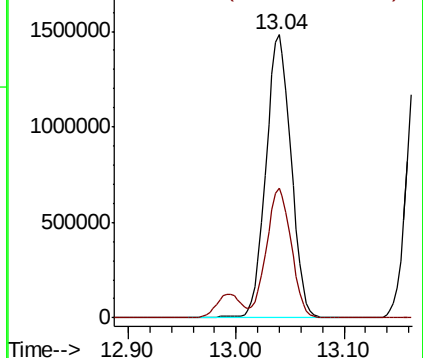
105 100

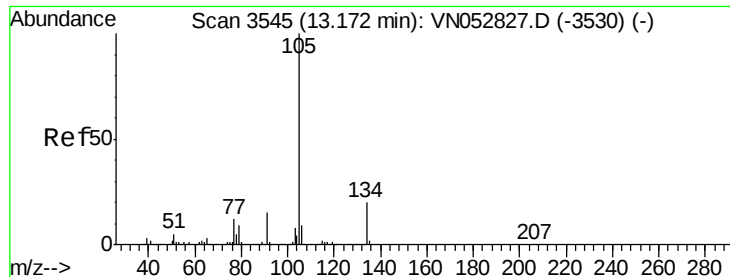
120 45.3 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 53.164 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampleId :

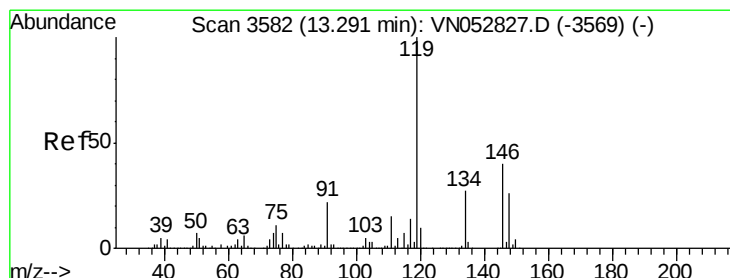
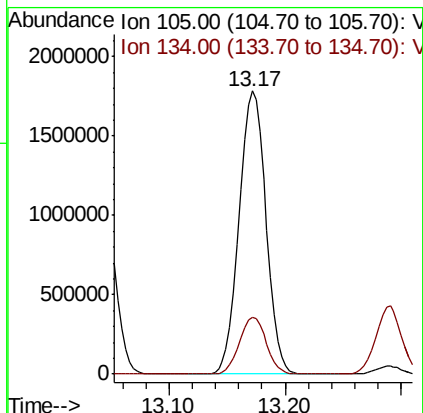
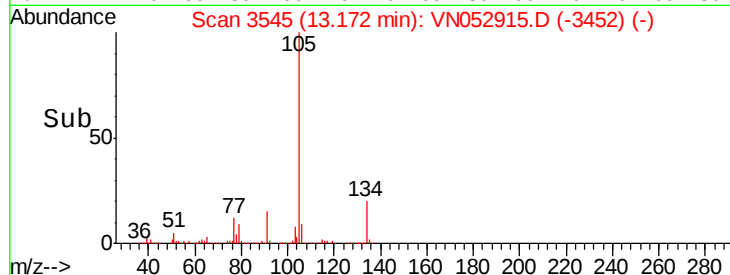
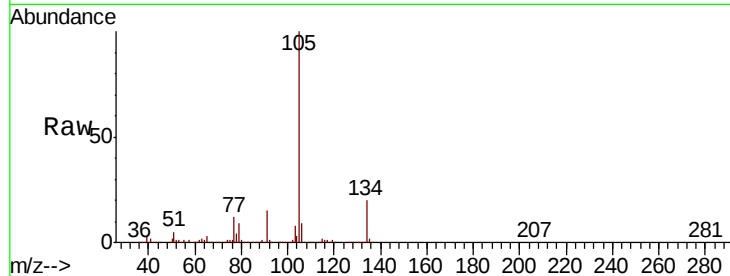
BFB

Tot Ion:105 Resp: 2857067

Ion Ratio Lower Upper

105 100

134 20.2 10.1 30.3



#86

p-Isopropyltoluene

Concen: 53.307 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

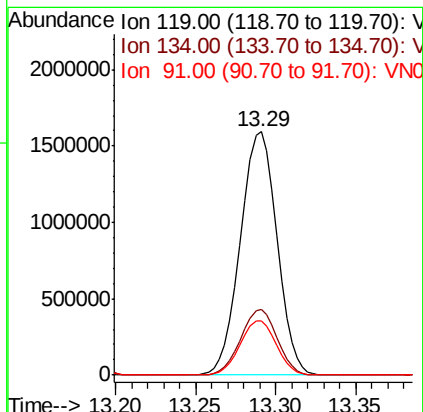
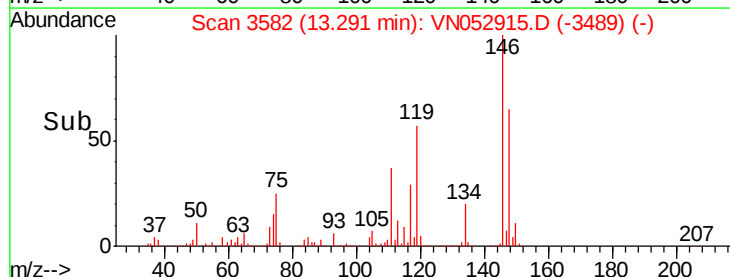
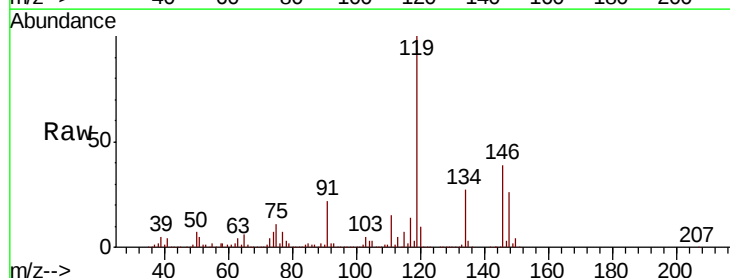
Tgt Ion:119 Resp: 2481920

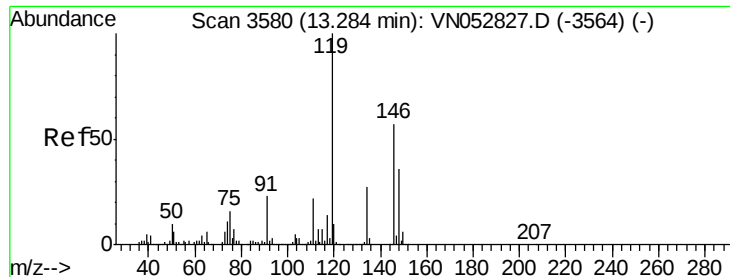
Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

91 22.2 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 51.302 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

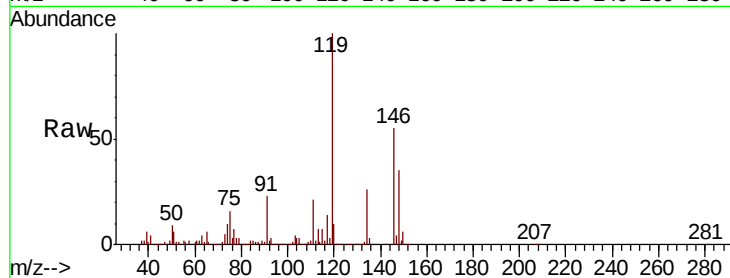
Tot Ion:146 Resp: 1292155

Ion Ratio Lower Upper

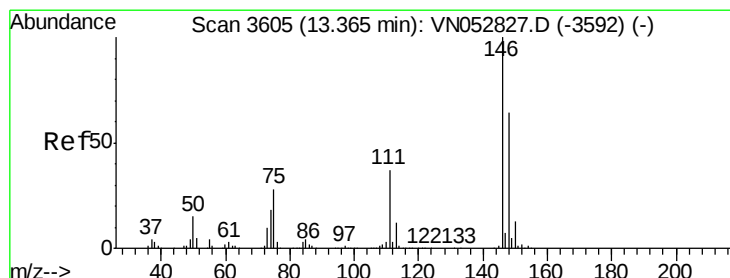
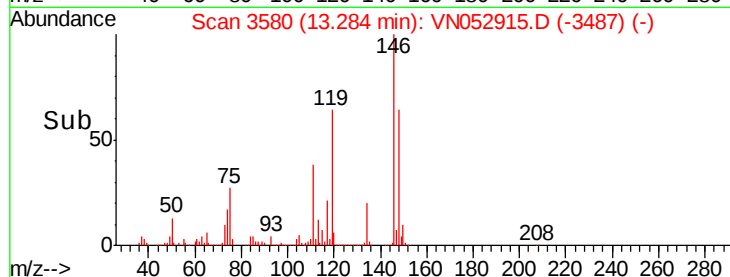
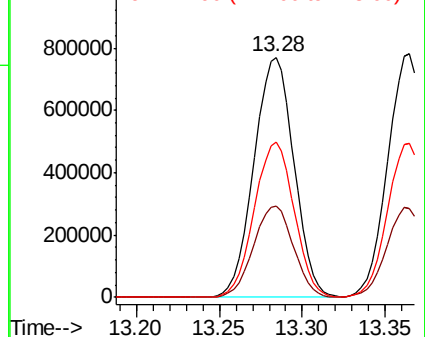
146 100

111 38.1 19.1 57.1

148 64.3 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 51.289 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

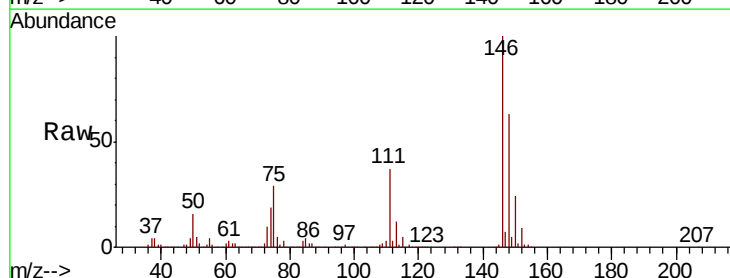
Tgt Ion:146 Resp: 1279307

Ion Ratio Lower Upper

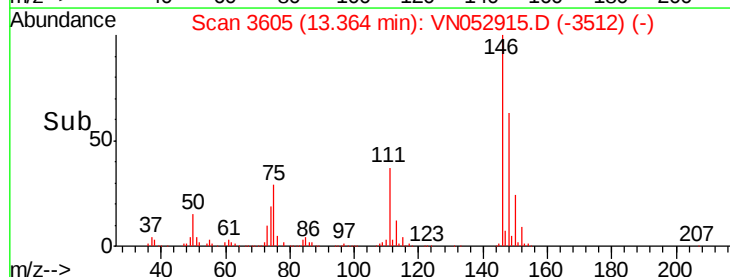
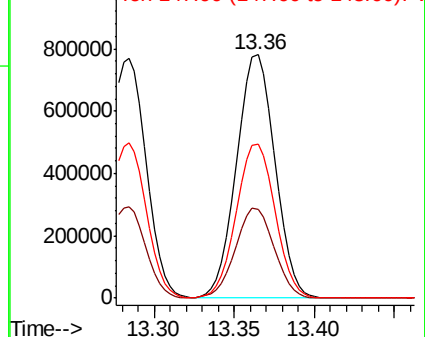
146 100

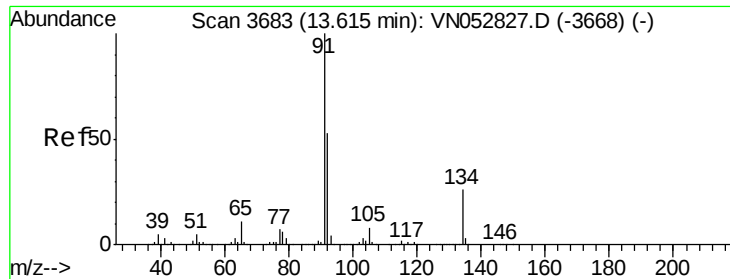
111 37.4 18.6 55.8

148 63.9 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

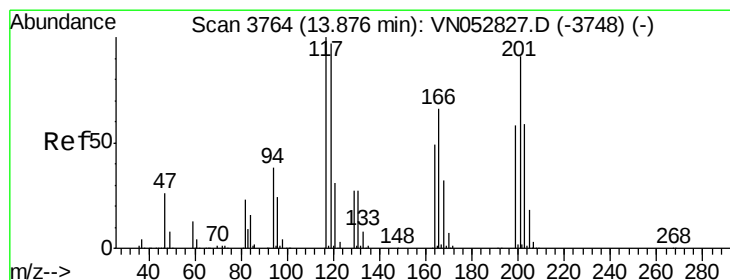
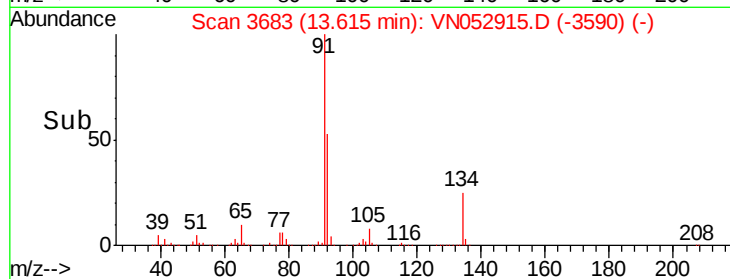
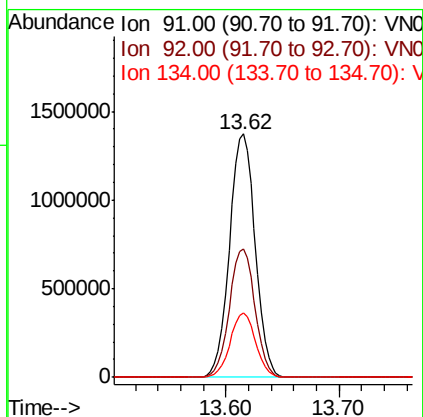
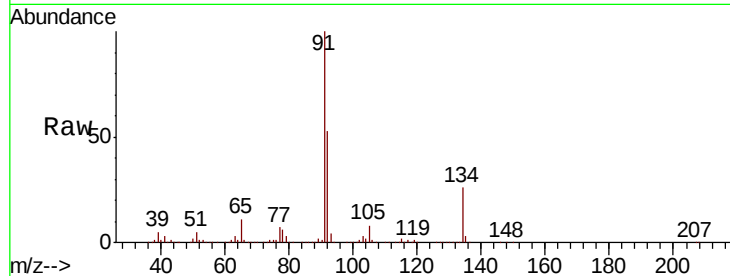




#89
n-Butylbenzene
Concen: 55.094 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

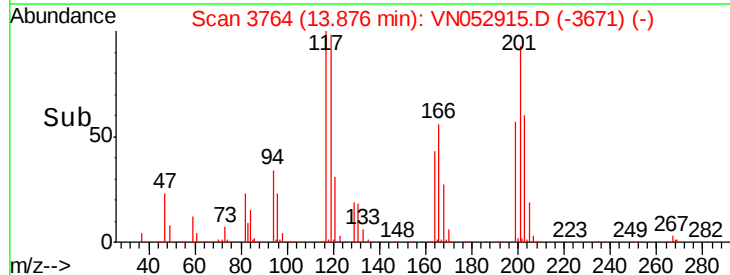
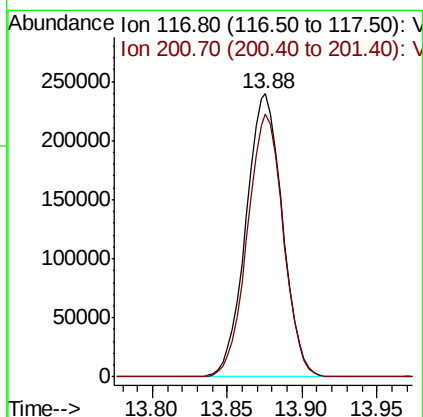
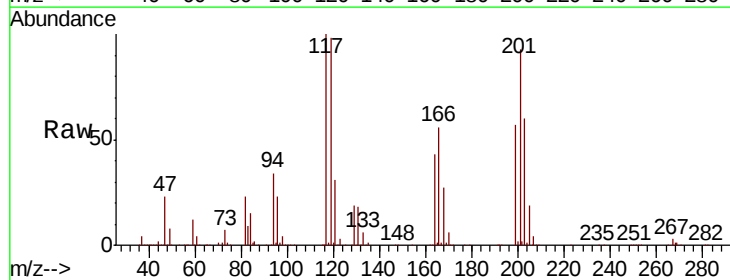
Instrument :
MSVOA_N
ClientSampleId :
BFB

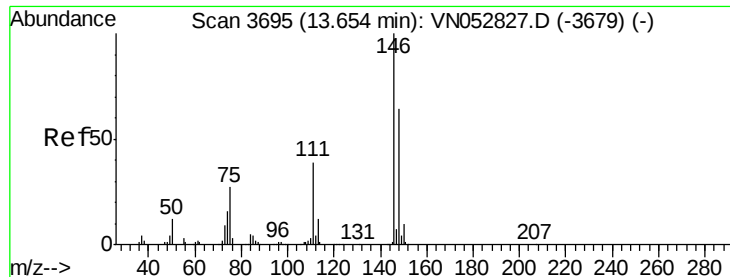
Tot Ion: 91 Resp: 2159434
Ion Ratio Lower Upper
91 100
92 52.7 26.3 78.9
134 26.2 13.3 39.8



#90
Hexachloroethane
Concen: 52.009 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN052915.D
Acq: 17 Dec 2018 9:35

Tgt Ion: 117 Resp: 405477
Ion Ratio Lower Upper
117 100
201 91.6 45.7 137.1





#91

1,2-Dichlorobenzene

Concen: 49.475 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

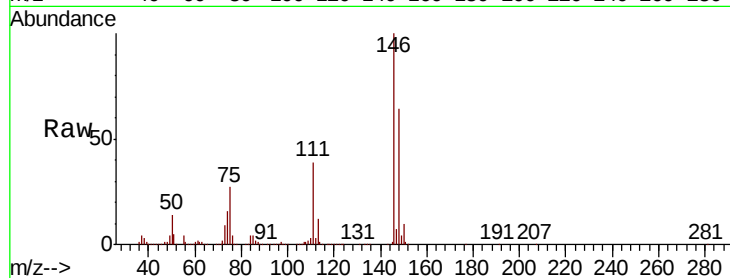
Tot Ion:146 Resp: 1198705

Ion Ratio Lower Upper

146 100

111 39.3 19.7 59.0

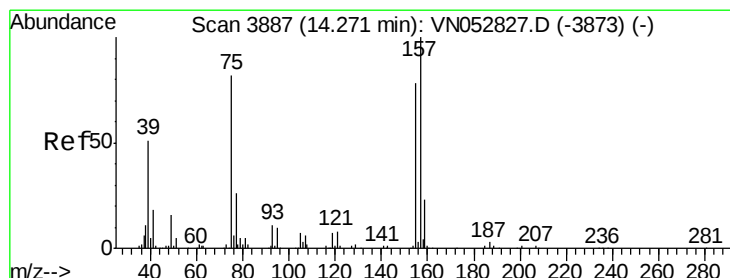
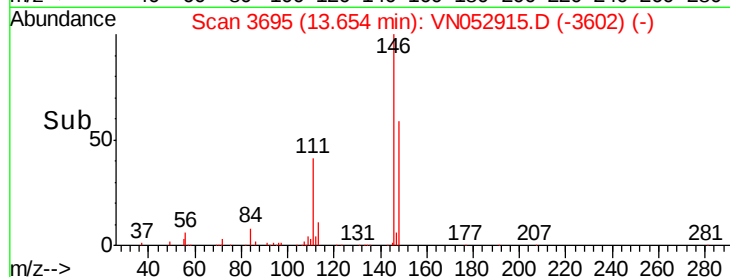
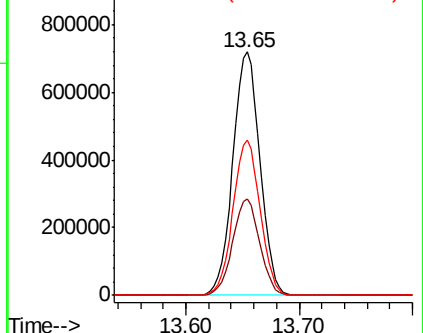
148 63.7 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 49.355 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

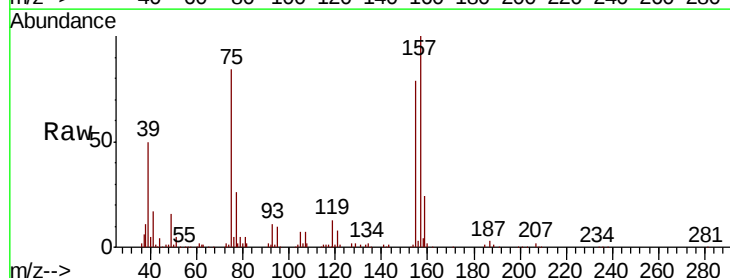
Tgt Ion: 75 Resp: 92914

Ion Ratio Lower Upper

75 100

155 93.6 48.2 144.6

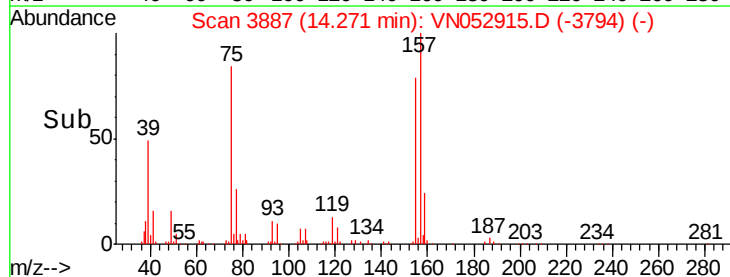
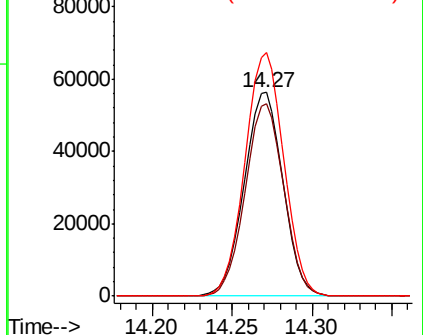
157 119.8 61.2 183.5

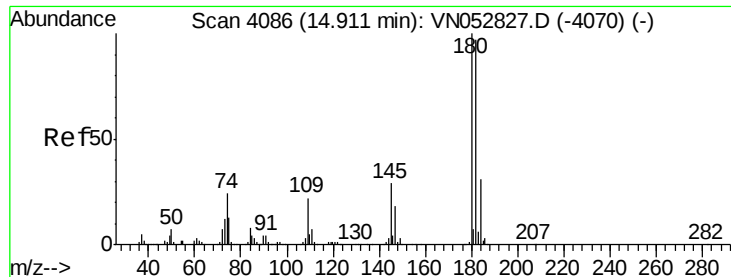


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

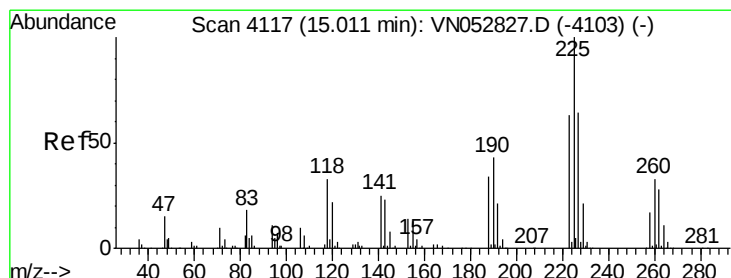
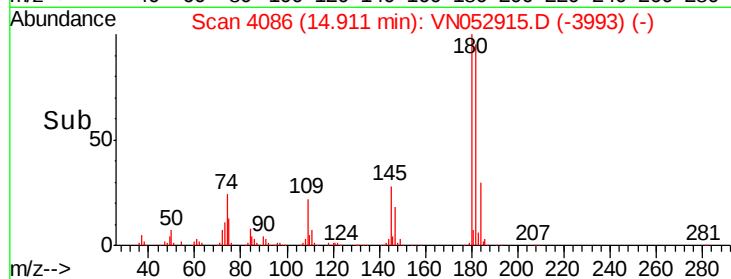
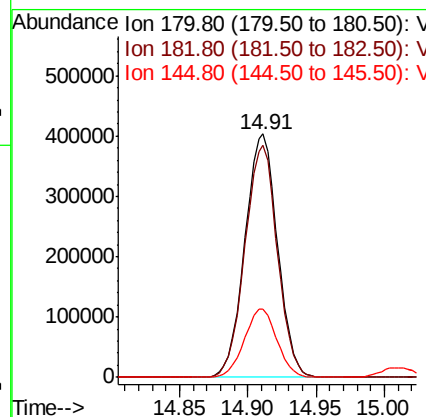
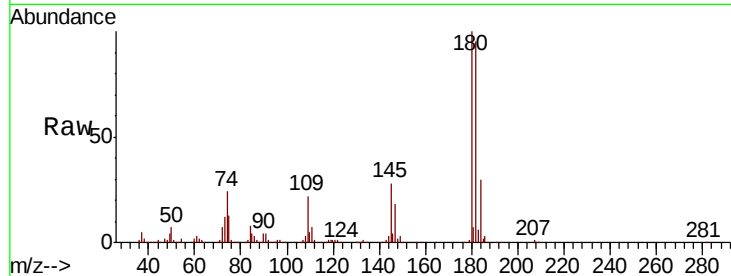




#93
 1,2,4-Trichlorobenzene
 Concen: 50.741 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

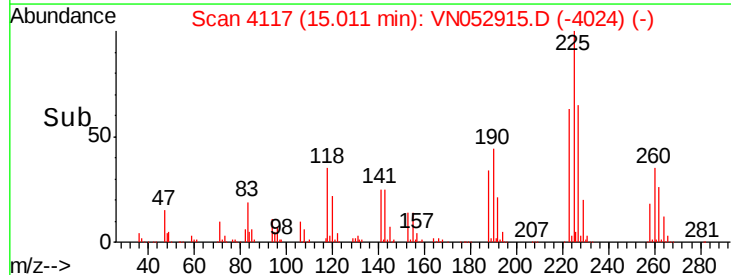
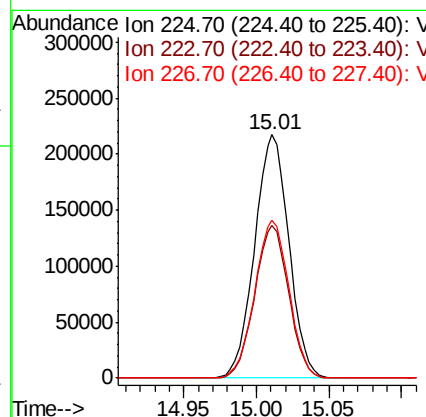
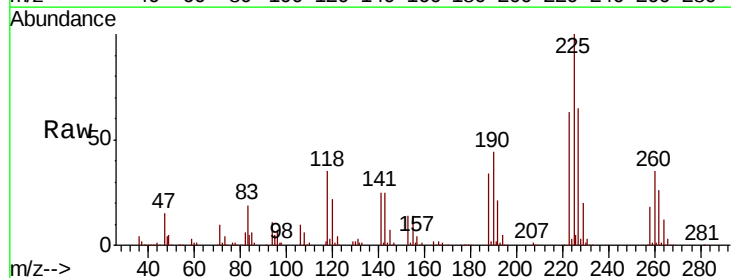
Instrument :
 MSVOA_N
 ClientSampled :
 BFB

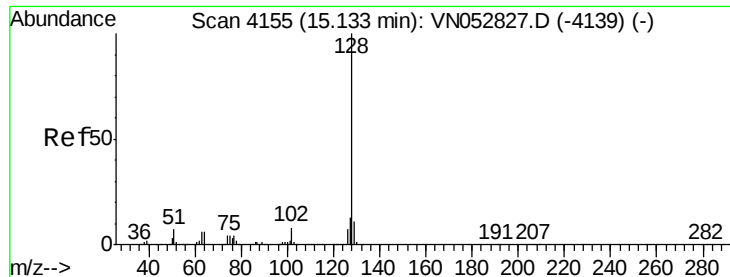
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.8	143.3
145	28.1	14.2	42.6



#94
 Hexachlorobutadiene
 Concen: 46.927 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052915.D
 Acq: 17 Dec 2018 9:35

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.5	94.5
227	64.9	31.9	95.7





#95

Naphthalene

Concen: 51.234 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

Instrument :

MSVOA_N

ClientSampled :

BFB

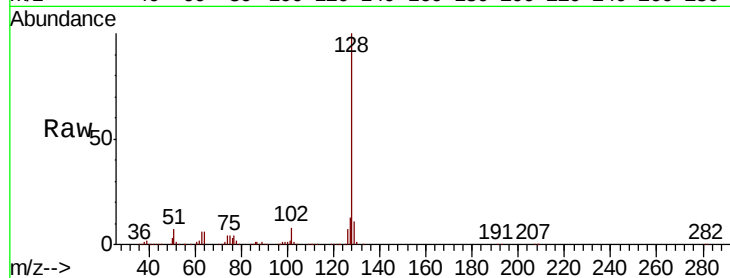
Tot Ion:128 Resp: 1397532

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

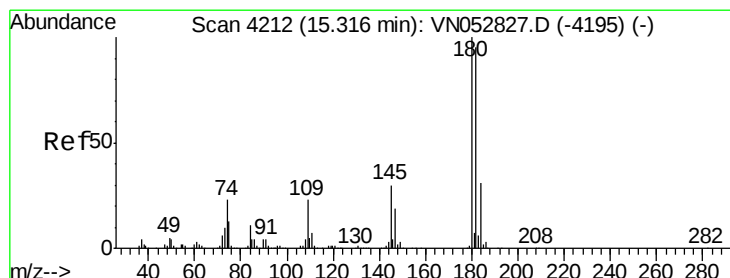
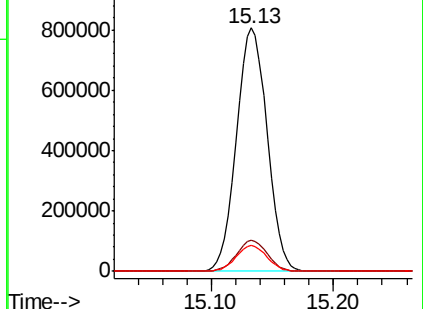
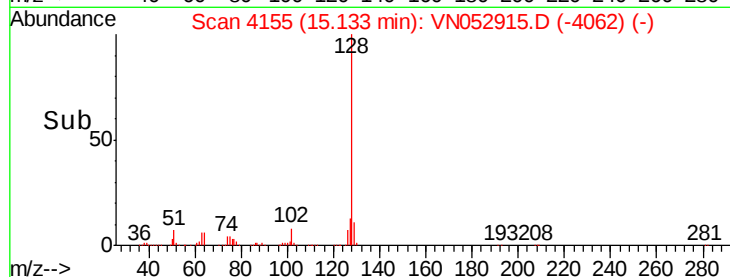
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 48.874 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052915.D

Acq: 17 Dec 2018 9:35

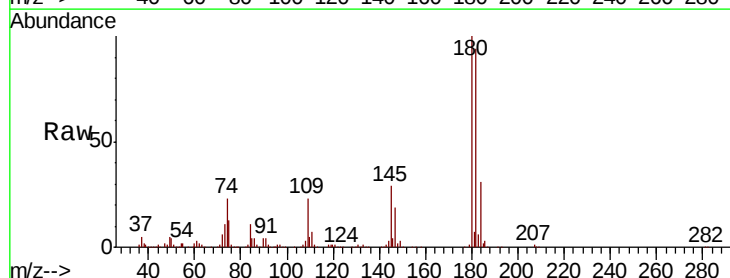
Tgt Ion:180 Resp: 590624

Ion Ratio Lower Upper

180 100

182 94.4 47.9 143.7

145 29.7 15.0 45.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

