

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054815.D
 Acq On : 30 Mar 2019 20:52
 Operator : JC/SP
 Sample : VN0330WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 22:43:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	411119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	716702	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	597341	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244096	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	296835	53.56	ug/l	0.00
Spiked Amount						
			Recovery	=	107.12%	
35) Dibromofluoromethane	7.59	113	228723	47.87	ug/l	0.00
Spiked Amount						
			Recovery	=	95.74%	
50) Toluene-d8	10.09	98	816209	45.95	ug/l	0.00
Spiked Amount						
			Recovery	=	91.90%	
62) 4-Bromofluorobenzene	12.40	95	266253	45.07	ug/l	0.00
Spiked Amount						
			Recovery	=	90.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	84433	20.304	ug/l	98
3) Chloromethane	2.07	50	114293	19.877	ug/l	94
4) Vinyl Chloride	2.19	62	107078	20.737	ug/l	98
5) Bromomethane	2.57	94	43139	14.332	ug/l	97
6) Chloroethane	2.71	64	60797	21.086	ug/l	97
7) Trichlorofluoromethane	3.02	101	137964	21.733	ug/l	97
8) Diethyl Ether	3.41	74	47313	23.146	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.75	101	68716	20.562	ug/l	93
10) Methyl Iodide	3.94	142	59295	12.961	ug/l #	85
11) Tert butyl alcohol	4.83	59	45020	155.914	ug/l #	82
12) 1,1-Dichloroethene	3.73	96	68466	21.186	ug/l #	69
13) Acrolein	3.61	56	37100	143.723	ug/l	95
14) Allyl chloride	4.31	41	164833	20.708	ug/l #	92
15) Acrylonitrile	5.00	53	205283	127.906	ug/l	100
16) Acetone	3.82	43	148814	112.604	ug/l #	80
17) Carbon Disulfide	4.04	76	174314	16.631	ug/l	99
18) Methyl Acetate	4.33	43	97552	27.934	ug/l #	89
19) Methyl tert-butyl Ether	5.06	73	274193	24.256	ug/l	95
20) Methylene Chloride	4.55	84	100205	21.495	ug/l #	84
21) trans-1,2-Dichloroethene	5.04	96	91452	21.545	ug/l	88
22) Diisopropyl ether	5.96	45	357424	22.703	ug/l #	93
23) Vinyl Acetate	5.91	43	1320435	120.522	ug/l #	92
24) 1,1-Dichloroethane	5.85	63	190721	22.710	ug/l	97
25) 2-Butanone	6.85	43	263712	134.992	ug/l #	86
26) 2,2-Dichloropropane	6.82	77	93264	15.845	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	105653	22.033	ug/l	89
28) Bromochloromethane	7.20	49	101291	24.120	ug/l #	71
29) Tetrahydrofuran	7.23	42	178501	131.558	ug/l #	86
30) Chloroform	7.37	83	184419	23.029	ug/l	97
31) Cyclohexane	7.65	56	174906	21.690	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	148852	22.430	ug/l	94
36) 1,1-Dichloropropene	7.79	75	130896	19.600	ug/l	96
37) Ethyl Acetate	6.95	43	113333	23.142	ug/l	97
38) Carbon Tetrachloride	7.77	117	125035	19.276	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	137675	18.752	ug/l #	88
40) Benzene	8.04	78	405377	21.214	ug/l	98
41) Methacrylonitrile	7.18	41	66701	24.245	ug/l #	87
42) 1,2-Dichloroethane	8.13	62	146917	21.532	ug/l	97
43) Isopropyl Acetate	8.17	43	192200	24.153	ug/l #	95
44) Trichloroethene	8.84	130	100695	20.299	ug/l	92
45) 1,2-Dichloropropane	9.12	63	113342	20.801	ug/l	96
46) Dibromomethane	9.21	93	66804	21.795	ug/l	89
47) Bromodichloromethane	9.40	83	136386	21.410	ug/l	98
48) Methyl methacrylate	9.20	41	95126	22.053	ug/l	88
49) 1,4-Dioxane	9.21	88	21515	502.685	ug/l #	82
51) 4-Methyl-2-Pentanone	9.99	43	553895	123.806	ug/l	93
52) Toluene	10.16	92	231201	20.333	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	119090	19.874	ug/l	95
54) cis-1,3-Dichloropropene	9.84	75	145966	20.392	ug/l	92
55) 1,1,2-Trichloroethane	10.56	97	90682	21.448	ug/l	95
56) Ethyl methacrylate	10.43	69	120375	21.704	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	156987	21.597	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	225892	100.988	ug/l #	88
59) 2-Hexanone	10.75	43	338119	118.058	ug/l	90
60) Dibromochloromethane	10.90	129	91259	21.308	ug/l	98
61) 1,2-Dibromoethane	11.01	107	87425	21.637	ug/l	100
64) Tetrachloroethene	10.63	164	95347	20.801	ug/l	95
65) Chlorobenzene	11.44	112	236586	20.229	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	93353	21.326	ug/l	97
67) Ethyl Benzene	11.51	91	428667	20.311	ug/l	98
68) m/p-Xylenes	11.62	106	315056	40.340	ug/l	94
69) o-Xylene	11.95	106	155121	20.255	ug/l	96
70) Styrene	11.97	104	252223	20.597	ug/l	96
71) Bromoform	12.13	173	54645	21.308	ug/l #	100
73) Isopropylbenzene	12.25	105	405874	20.343	ug/l	98
74) N-amyl acetate	12.07	43	140446	22.595	ug/l	92
75) 1,1,2,2-Tetrachloroethane	12.50	83	112199	24.642	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	126723	29.884	ug/l #	100
77) Bromobenzene	12.53	156	96675	20.077	ug/l	82
78) n-propylbenzene	12.59	91	440266	20.077	ug/l	96
79) 2-Chlorotoluene	12.68	91	271859	20.039	ug/l	94
80) 1,3,5-Trimethylbenzene	12.73	105	330789	20.206	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.30	75	20530	18.832	ug/l #	77
82) 4-Chlorotoluene	12.77	91	264642	20.083	ug/l	96
83) tert-Butylbenzene	12.99	119	280440	20.894	ug/l	94
84) 1,2,4-Trimethylbenzene	13.04	105	321200	20.594	ug/l	96
85) sec-Butylbenzene	13.17	105	353581	19.882	ug/l	98
86) p-Isopropyltoluene	13.29	119	302282	19.272	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	163616	20.295	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	152635	19.304	ug/l	97
89) n-Butylbenzene	13.62	91	229556	17.938	ug/l	97
90) Hexachloroethane	13.88	117	51005	19.153	ug/l	88
91) 1,2-Dichlorobenzene	13.65	146	164600	20.231	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17862	26.189	ug/l	78

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	68140	17.372	ug/l	98
94) Hexachlorobutadiene	15.01	225	44297	17.711	ug/l	97
95) Naphthalene	15.13	128	173241	19.692	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	73251	18.491	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

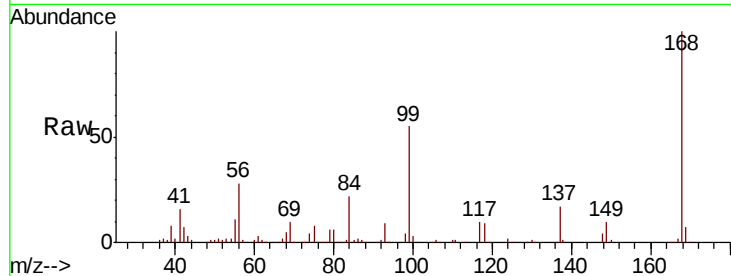
ClientSampleId :

Tot Ion:168 Resp: 411119

Ion Ratio Lower Upper

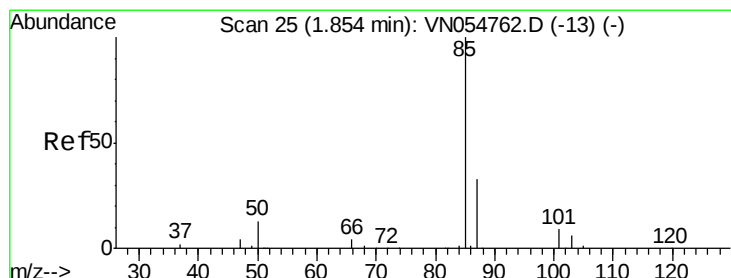
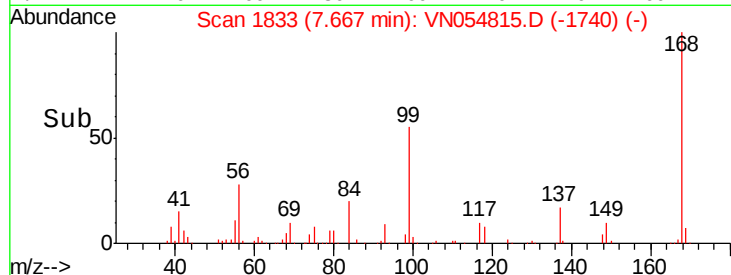
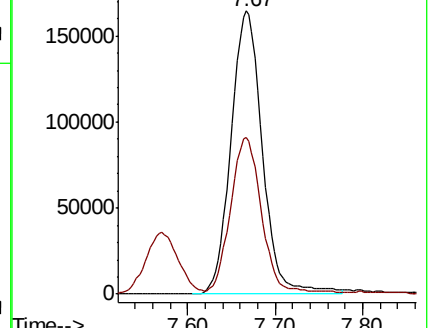
168 100

99 54.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 20.304 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054815.D

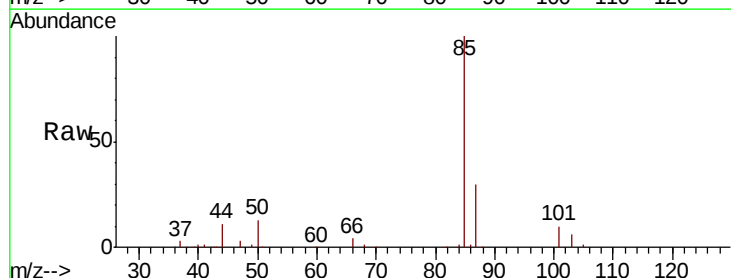
Acq: 30 Mar 2019 20:52

Tgt Ion: 85 Resp: 84433

Ion Ratio Lower Upper

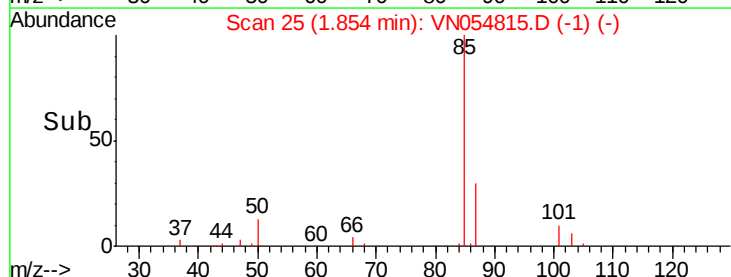
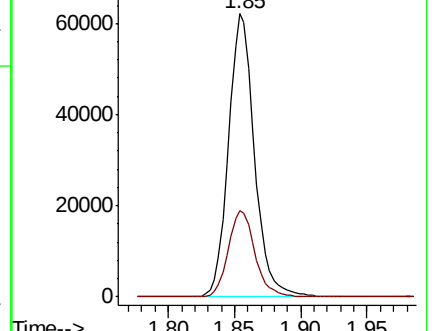
85 100

87 30.5 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.877 ug/l

RT: 2.07 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

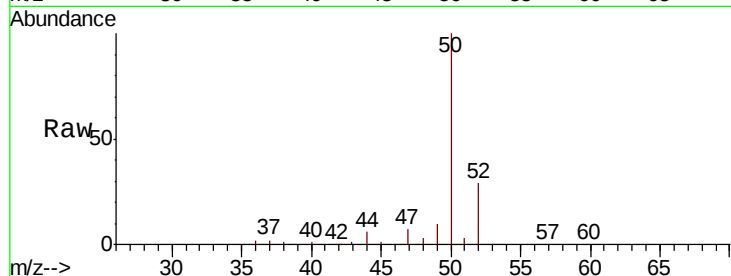
ClientSampleId :

Tot Ion: 50 Resp: 114293

Ion Ratio Lower Upper

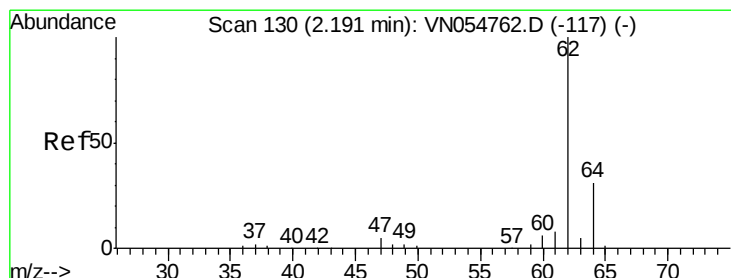
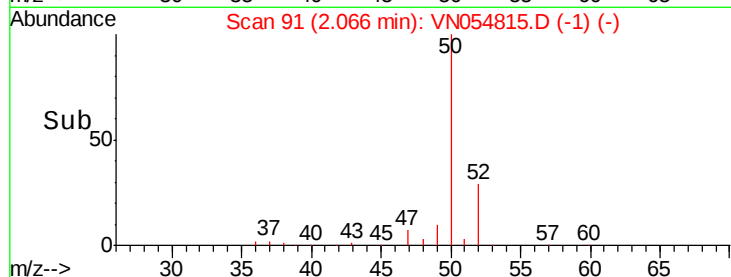
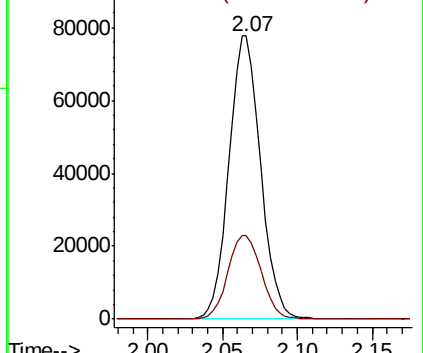
50 100

52 29.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.737 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054815.D

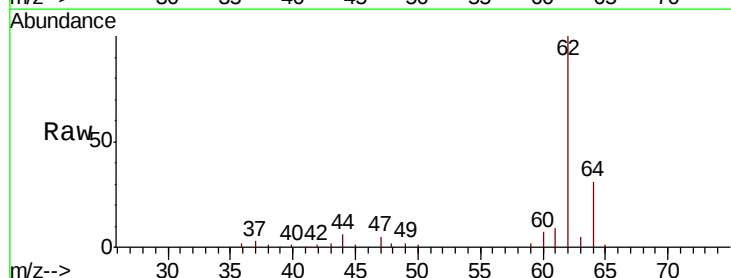
Acq: 30 Mar 2019 20:52

Tgt Ion: 62 Resp: 107078

Ion Ratio Lower Upper

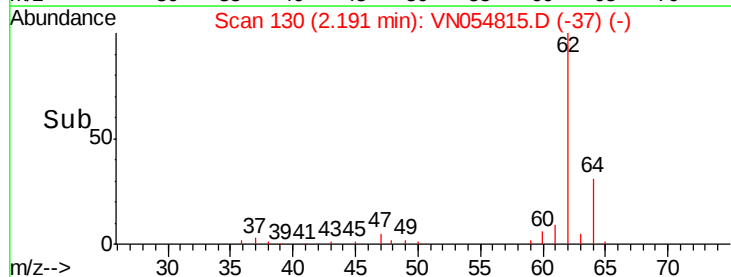
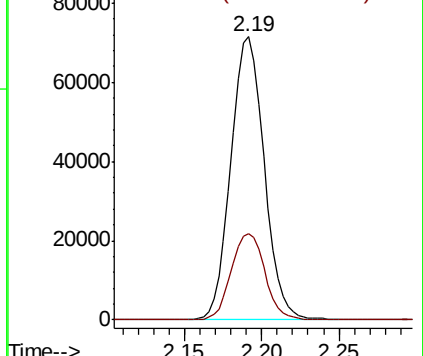
62 100

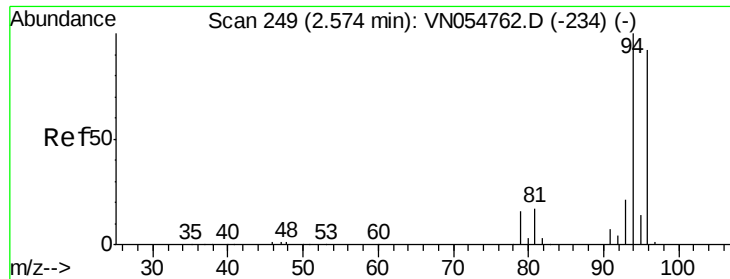
64 30.6 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 14.332 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

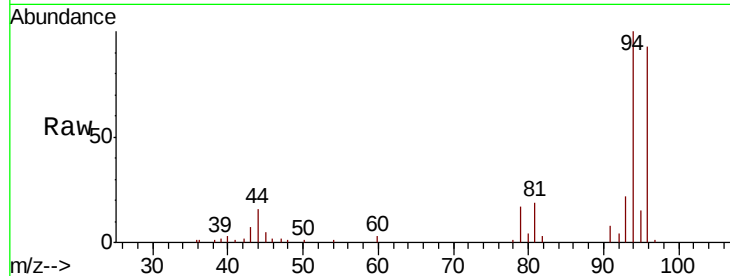
ClientSampled :

Tot Ion: 94 Resp: 43139

Ion Ratio Lower Upper

94 100

96 93.4 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

25000

20000

15000

10000

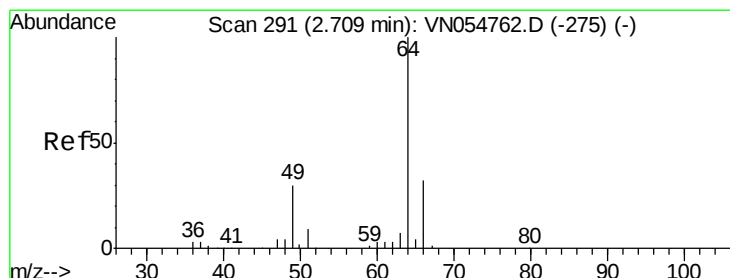
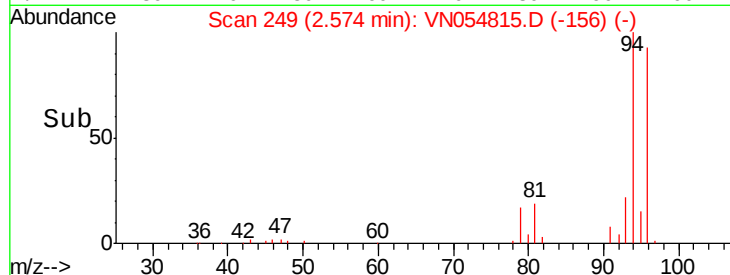
5000

0

Time-->

2.50 2.55 2.60 2.65

2.57



#6

Chloroethane

Concen: 21.086 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054815.D

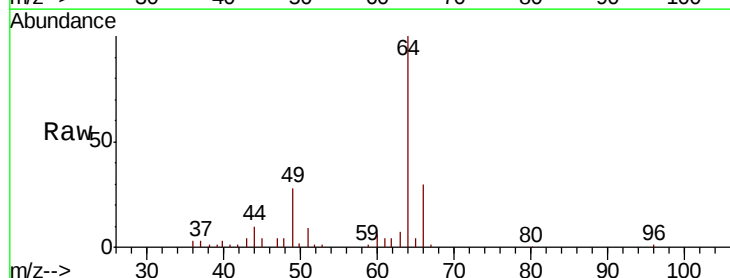
Acq: 30 Mar 2019 20:52

Tgt Ion: 64 Resp: 60797

Ion Ratio Lower Upper

64 100

66 30.4 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

30000

20000

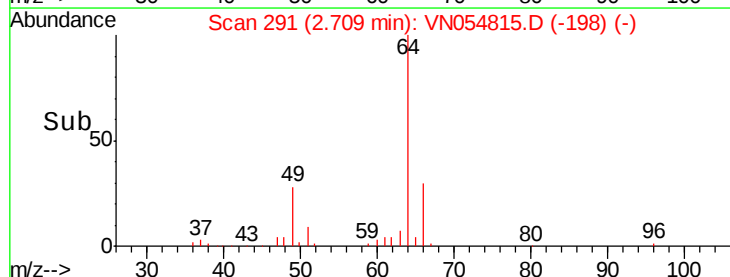
10000

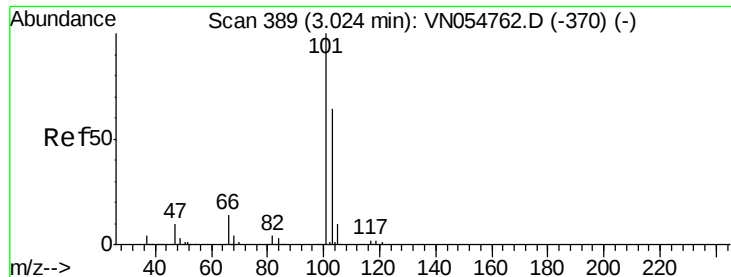
0

Time-->

2.65 2.70 2.75 2.80

2.71



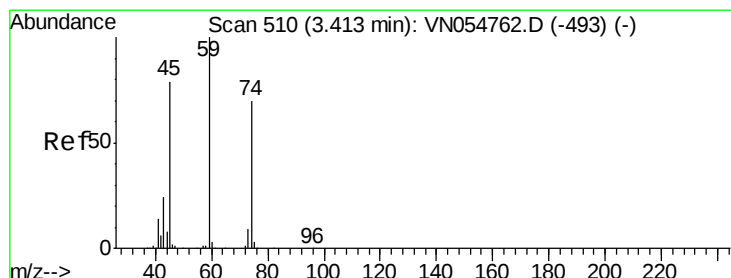
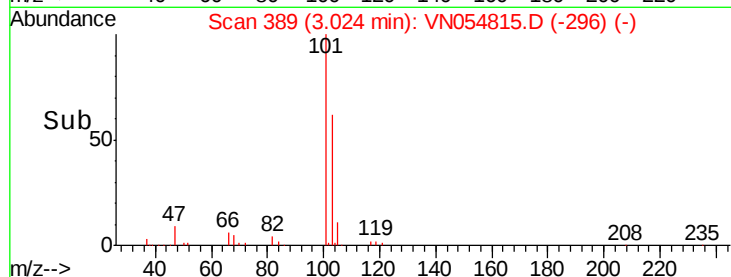
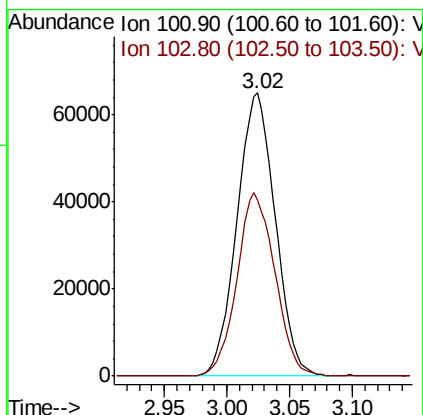
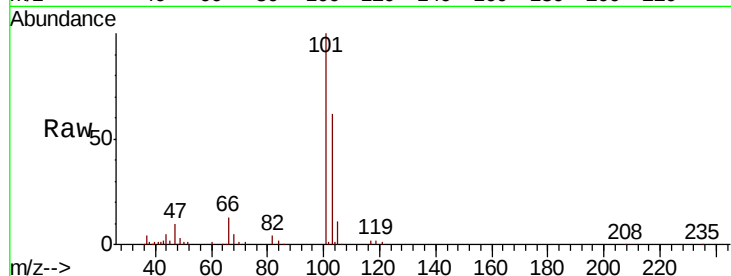


#7

Trichlorofluoromethane
Concen: 21.733 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Instrument :
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ClientSampleId :

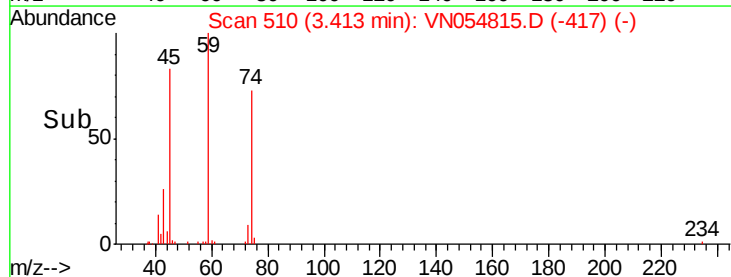
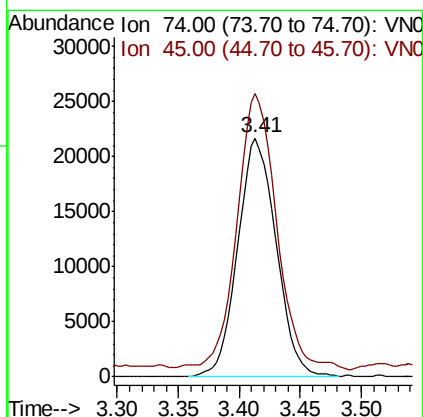
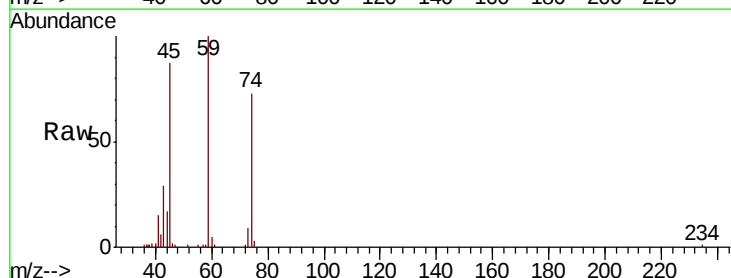
Tot Ion:101 Resp: 137964
Ion Ratio Lower Upper
101 100
103 62.3 51.4 77.2

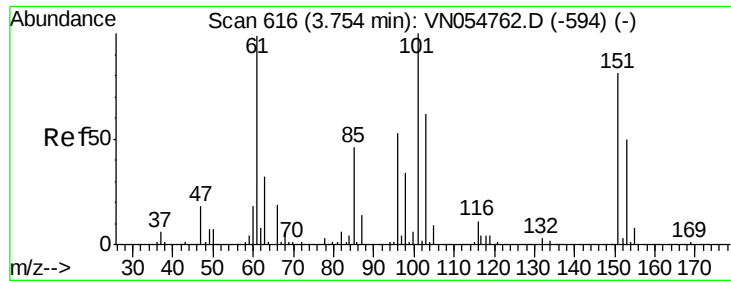


#8

Diethyl Ether
Concen: 23.146 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 74 Resp: 47313
Ion Ratio Lower Upper
74 100
45 112.8 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.562 ug/l

RT: 3.75 min Scan# 615

Delta R.T. -0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

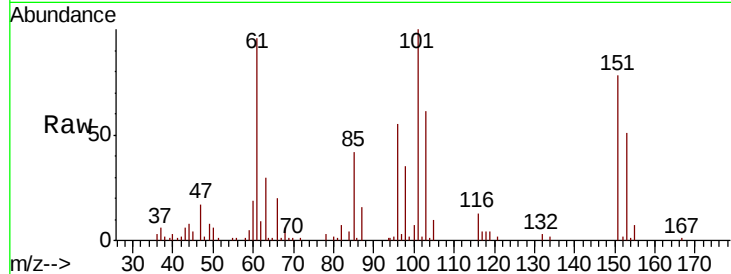
Tot Ion:101 Resp: 68716

Ion Ratio Lower Upper

101 100

85 45.7 32.4 48.6

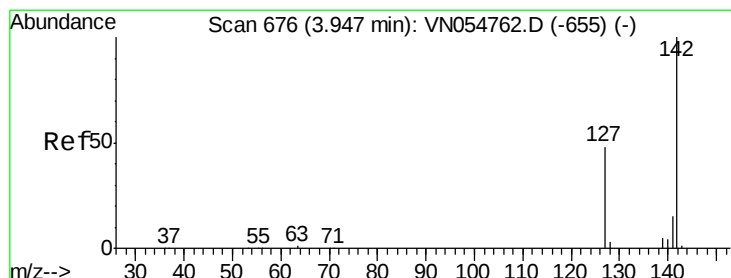
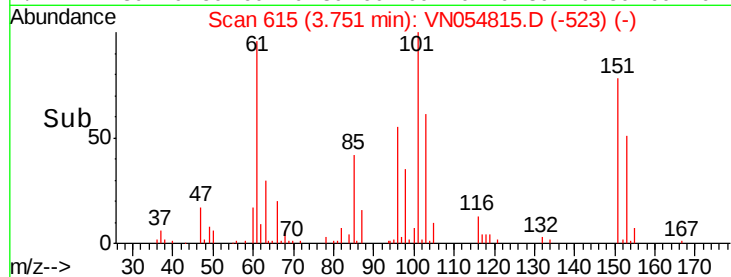
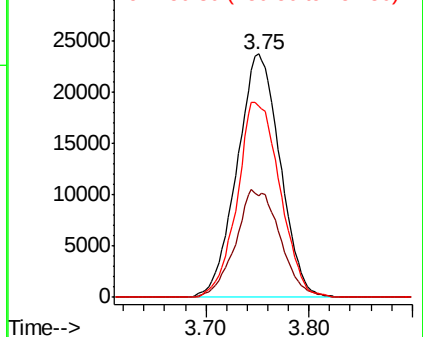
151 79.7 68.2 102.2



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: 12.961 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

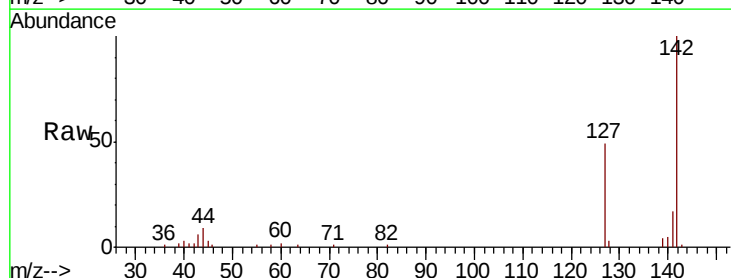
Tgt Ion:142 Resp: 59295

Ion Ratio Lower Upper

142 100

127 49.5 30.3 45.5#

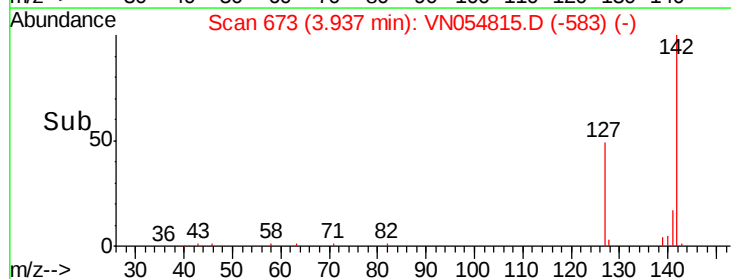
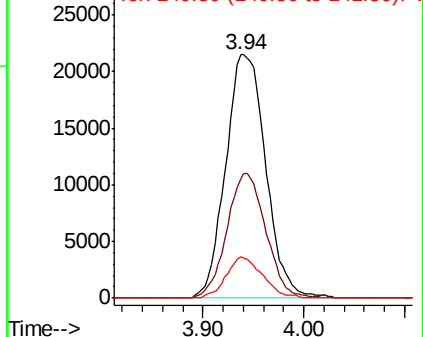
141 15.4 11.2 16.8

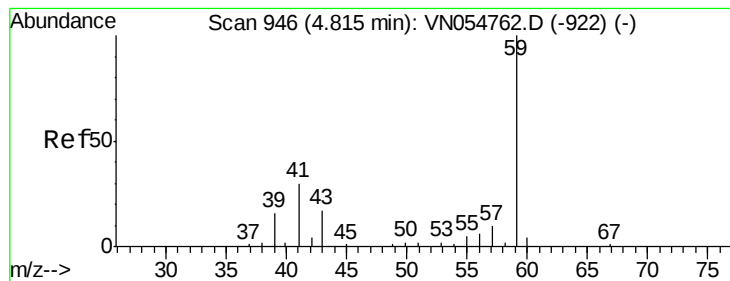


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 155.914 ug/l

RT: 4.83 min Scan# 951

Delta R.T. 0.02 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

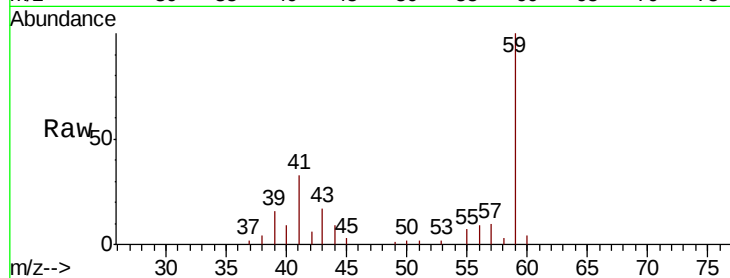
ClientSampled :

Tot Ion: 59 Resp: 45020

Ion Ratio Lower Upper

59 100

57 4.2 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

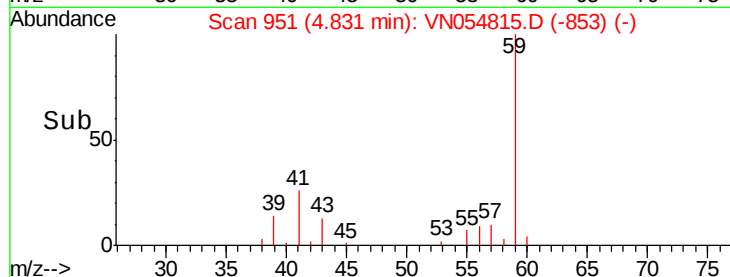
15000

10000

5000

0

Time-->



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

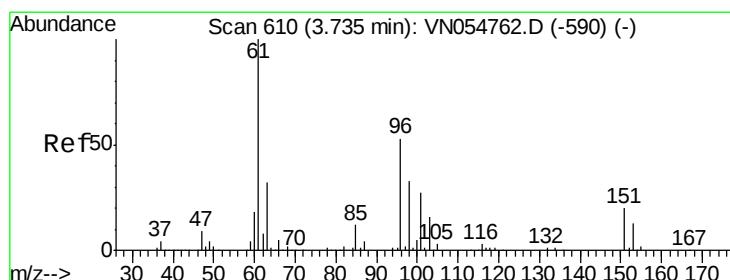
15000

10000

5000

0

Time-->



#12

1,1-Dichloroethene

Concen: 21.186 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

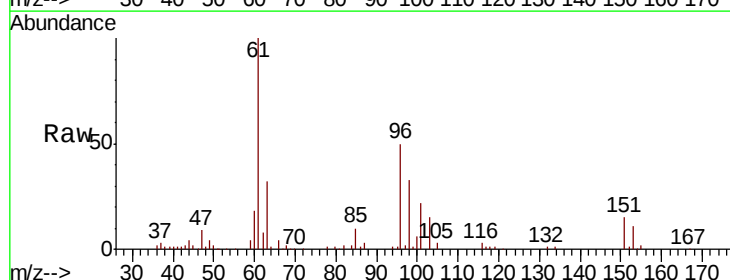
Tgt Ion: 96 Resp: 68466

Ion Ratio Lower Upper

96 100

61 200.1 116.5 174.7#

98 65.9 51.0 76.4



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

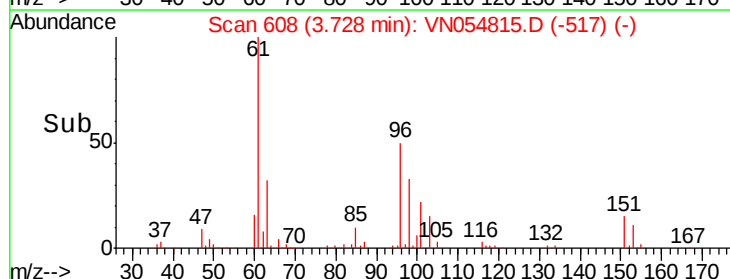
60000

40000

20000

0

Time-->



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

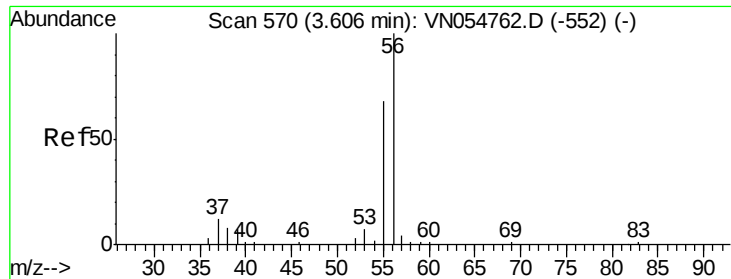
60000

40000

20000

0

Time-->



#13

Acrolein

Concen: 143.723 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

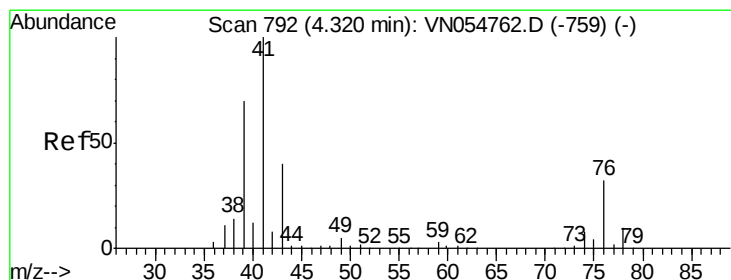
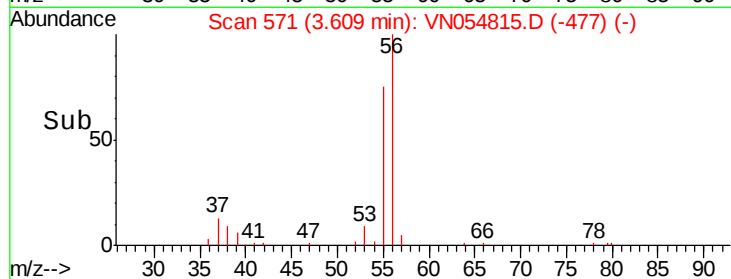
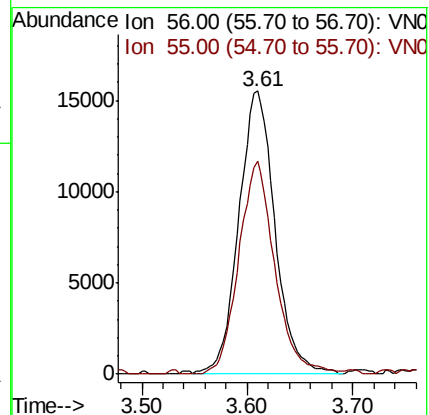
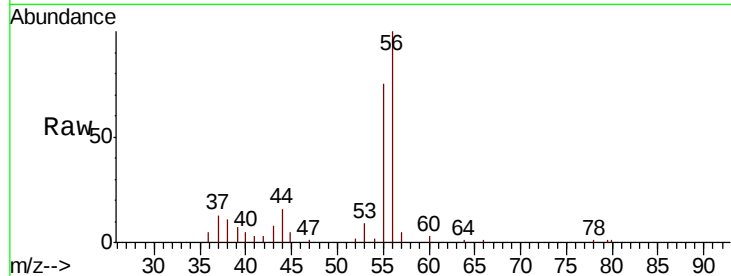
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 37100

Ion Ratio Lower Upper

56 100

55 74.9 56.7 85.1



#14

Allyl chloride

Concen: 20.708 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

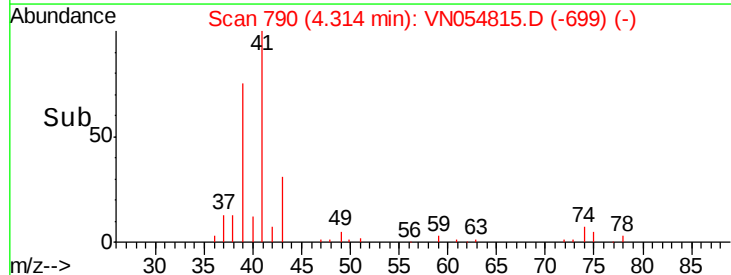
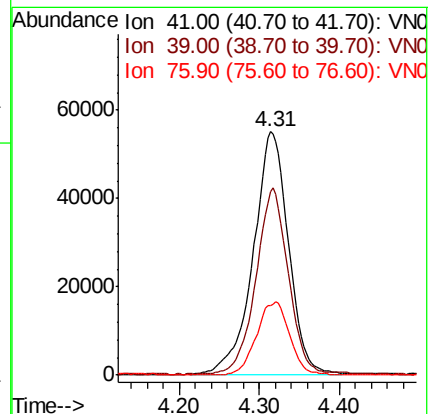
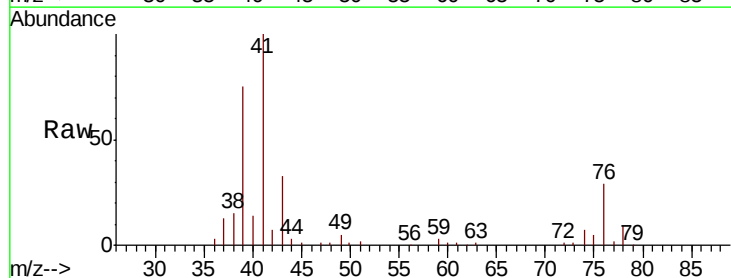
Tgt Ion: 41 Resp: 164833

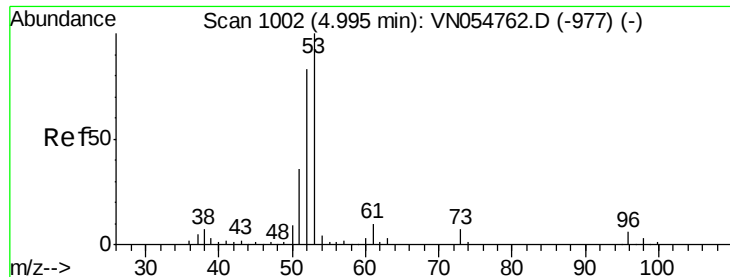
Ion Ratio Lower Upper

41 100

39 70.5 58.2 87.4

76 28.6 31.7 47.5#





#15

Acrylonitrile

Concen: 127.906 ug/l

RT: 5.00 min Scan# 1003

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

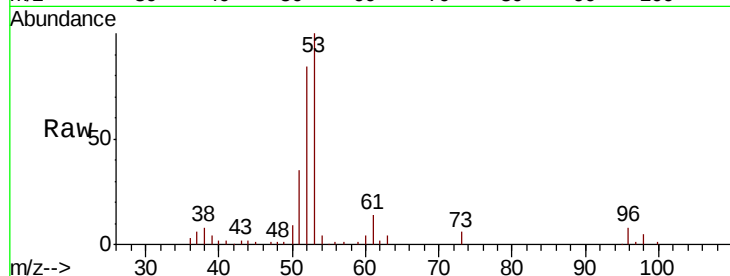
Tot Ion: 53 Resp: 205283

Ion Ratio Lower Upper

53 100

52 83.0 66.4 99.6

51 37.0 29.6 44.4

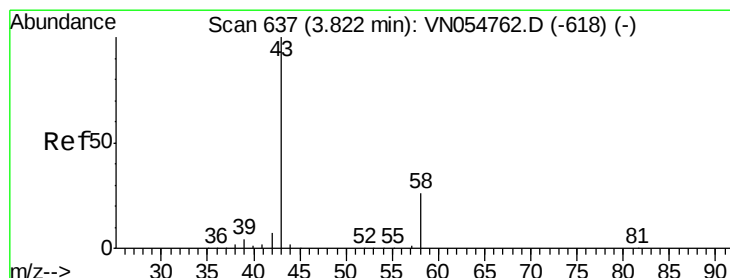
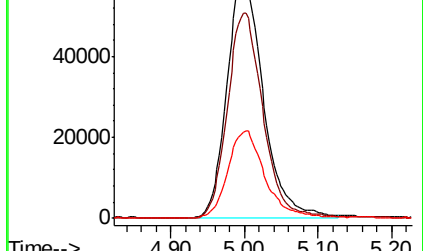
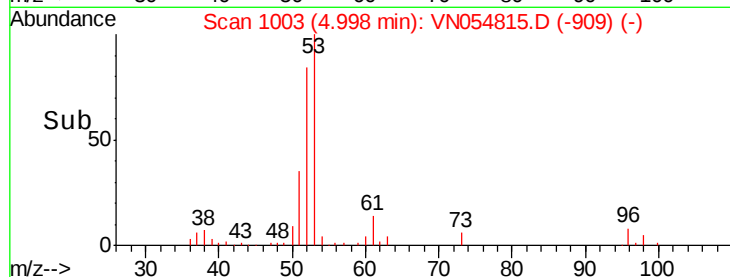


Abundance Ion 53.00 (52.70 to 53.70): VN054762.D (-977) (-)

Ion 52.00 (51.70 to 52.70): VN054762.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VN054762.D (-977) (-)

Time-->



#16

Acetone

Concen: 112.604 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054815.D

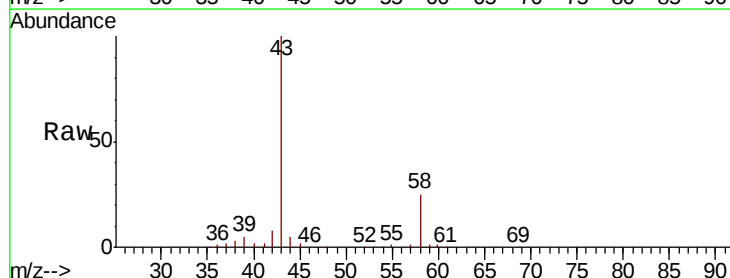
Acq: 30 Mar 2019 20:52

Tgt Ion: 43 Resp: 148814

Ion Ratio Lower Upper

43 100

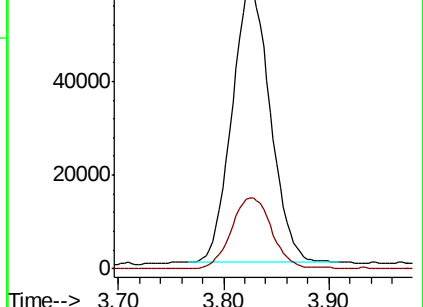
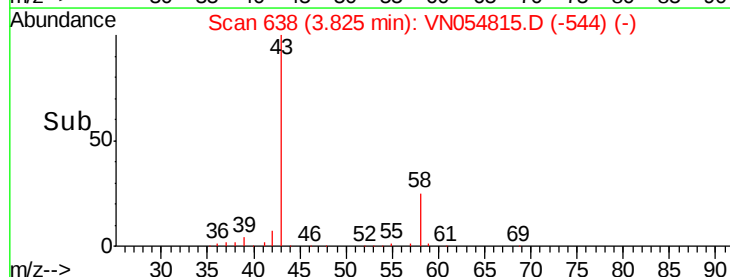
58 25.7 29.9 44.9#

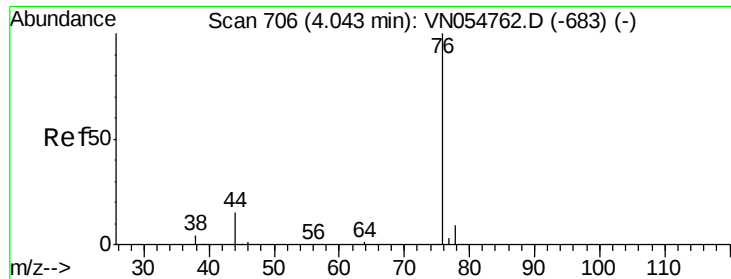


Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-618) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-618) (-)

Time-->





#17

Carbon Disulfide

Concen: 16.631 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

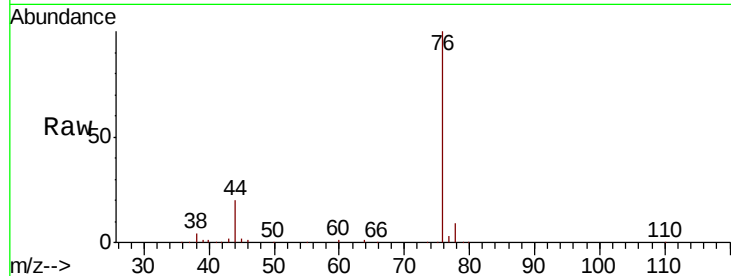
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 76 Resp: 174314

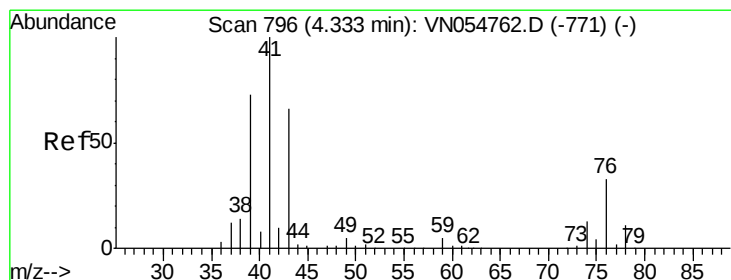
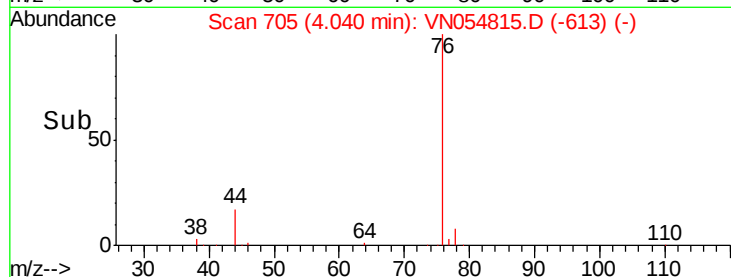
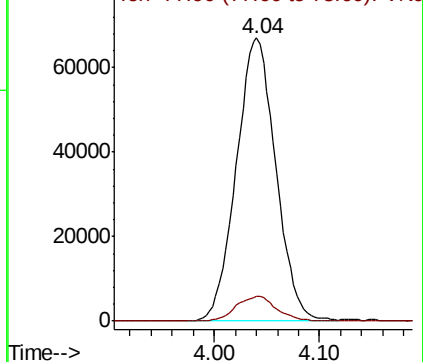
Ion Ratio Lower Upper

76 100

78 8.9 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VNC
Ion 77.90 (77.60 to 78.60): VNC



#18

Methyl Acetate

Concen: 27.934 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054815.D

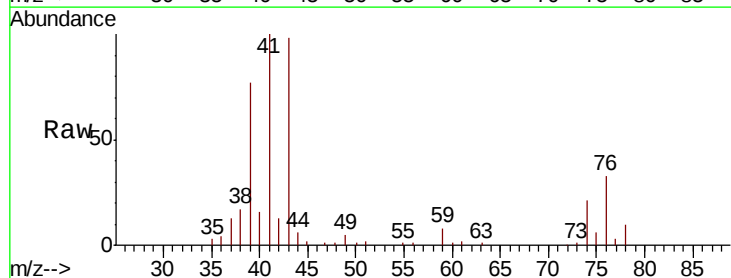
Acq: 30 Mar 2019 20:52

Tgt Ion: 43 Resp: 97552

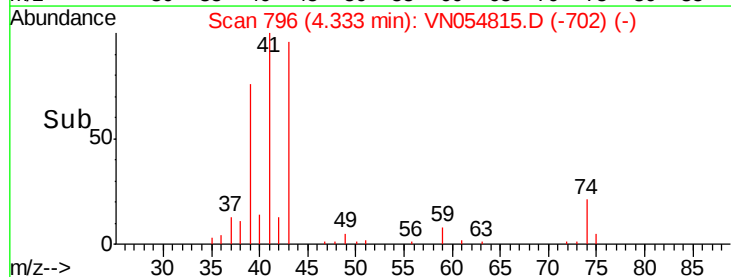
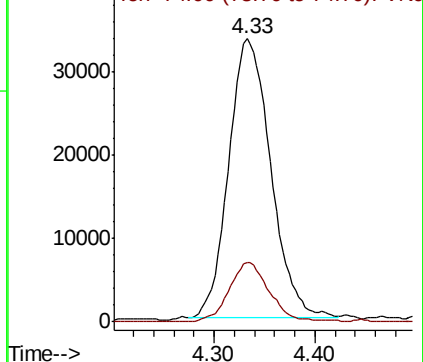
Ion Ratio Lower Upper

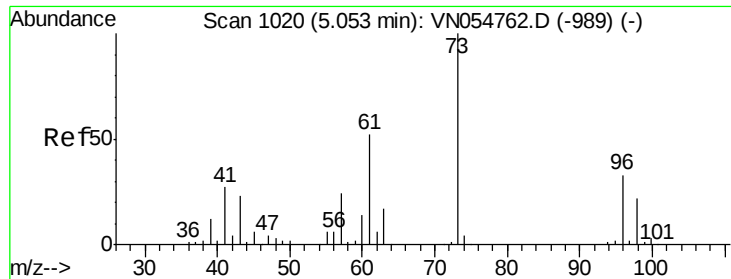
43 100

74 20.2 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 74.00 (73.70 to 74.70): VNC

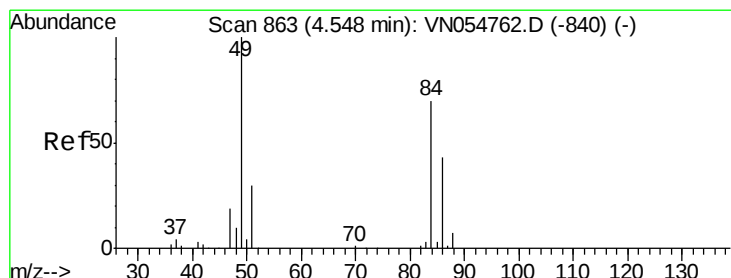
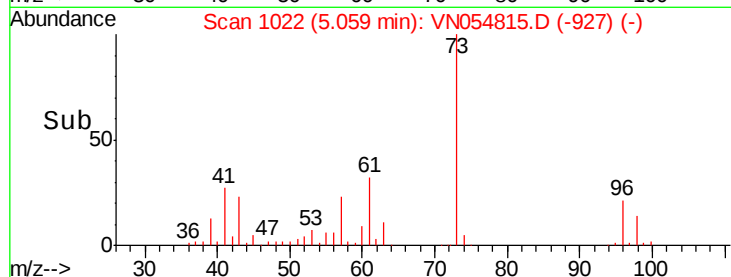
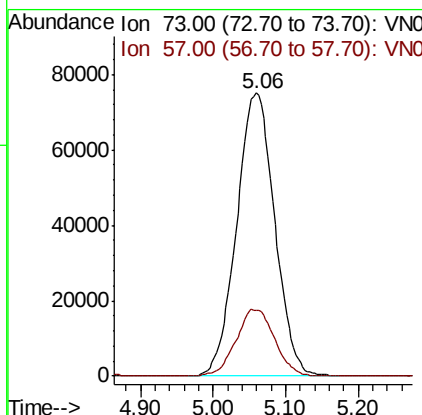
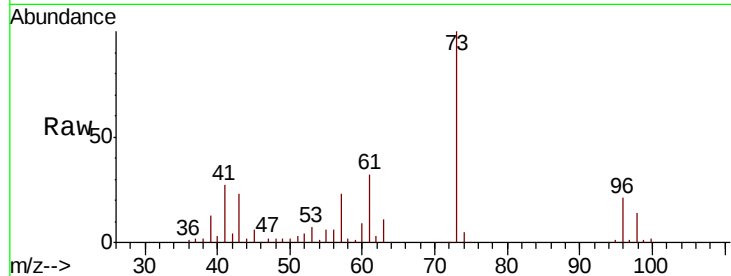




#19
Methyl tert-butyl Ether
Concen: 24.256 ug/l
RT: 5.06 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

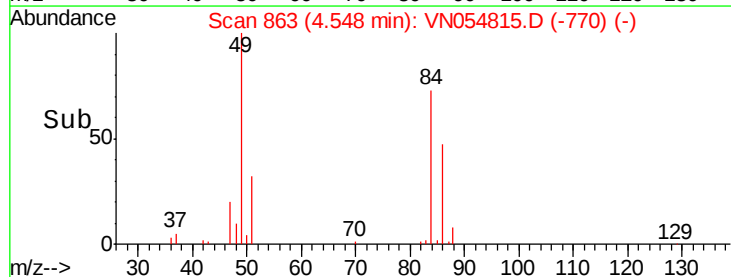
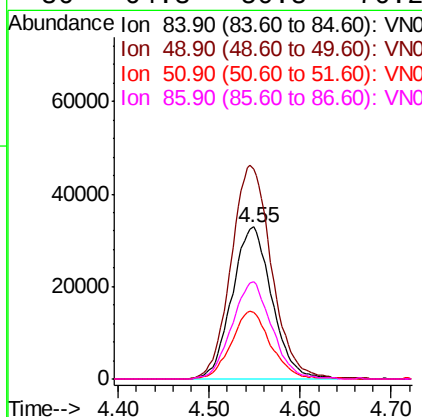
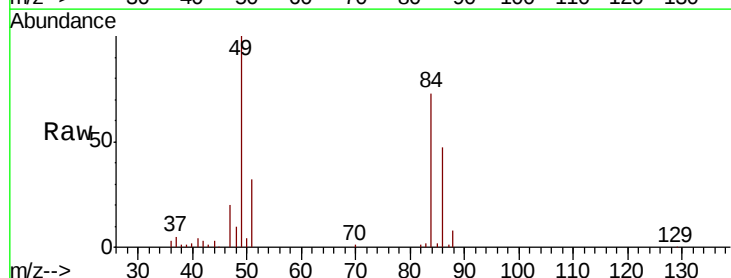
Instrument :
MSVOA_N
ClientSampled :

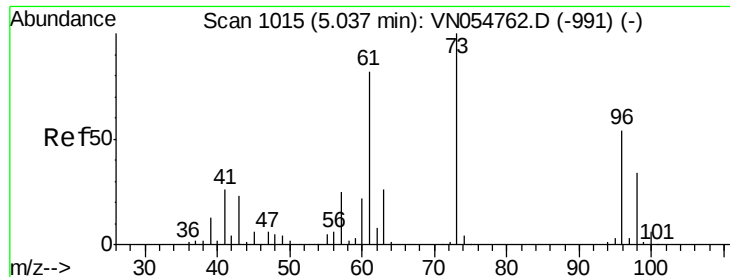
Tot Ion: 73 Resp: 274193
Ion Ratio Lower Upper
73 100
57 23.2 16.8 25.2



#20
Methylene Chloride
Concen: 21.495 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 84 Resp: 100205
Ion Ratio Lower Upper
84 100
49 137.9 89.7 134.5#
51 43.9 28.2 42.4#
86 64.3 50.8 76.2

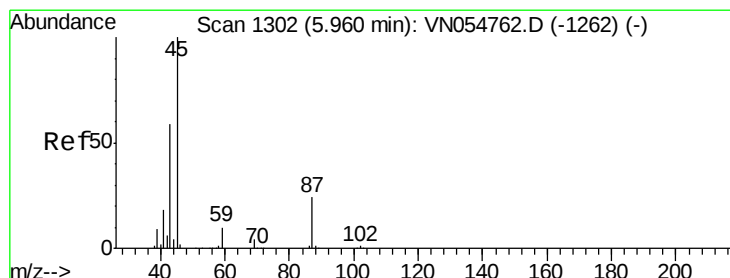
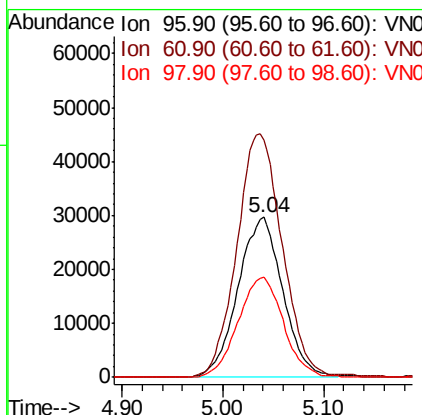
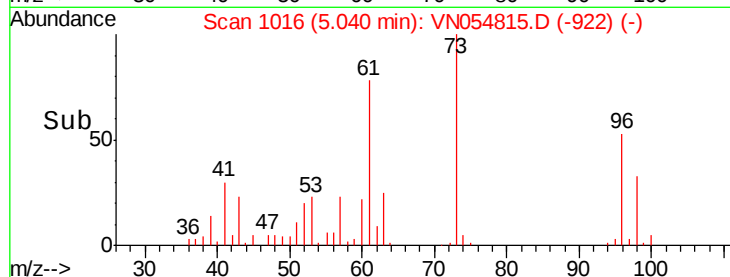
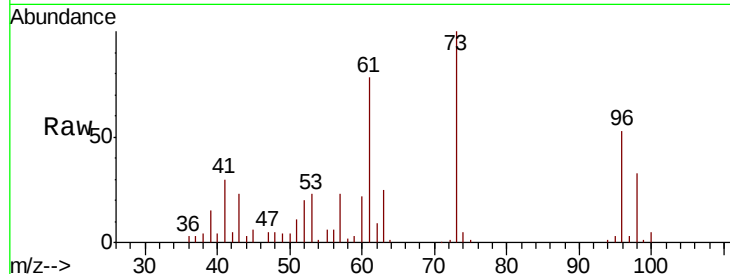




#21
trans-1,2-Dichloroethene
Concen: 21.545 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

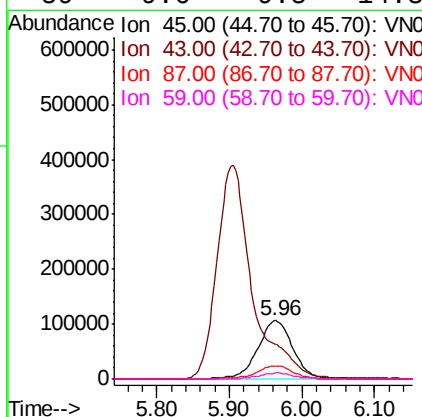
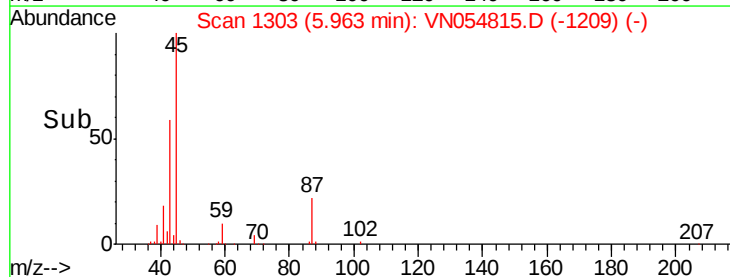
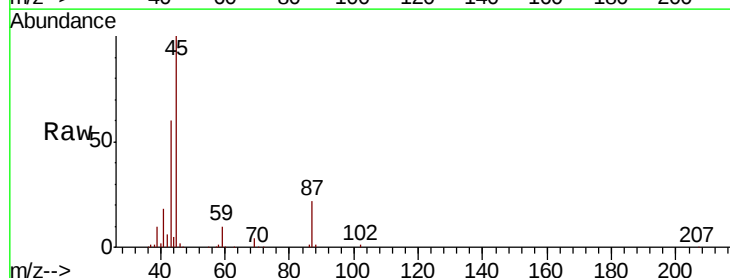
Instrument :
MSVOA_N
ClientSampled :

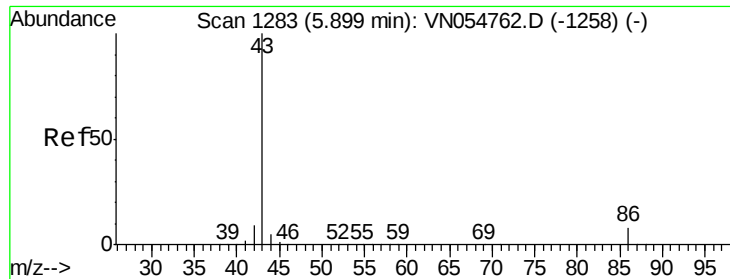
Tot Ion: 96 Resp: 91452
Ion Ratio Lower Upper
96 100
61 148.6 102.8 154.2
98 62.5 50.0 75.0



#22
Diisopropyl ether
Concen: 22.703 ug/l
RT: 5.96 min Scan# 1303
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 45 Resp: 357424
Ion Ratio Lower Upper
45 100
43 58.1 48.2 72.2
87 22.2 24.9 37.3#
59 9.6 9.5 14.3





#23

Vinyl Acetate

Concen: 120.522 ug/l

RT: 5.91 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

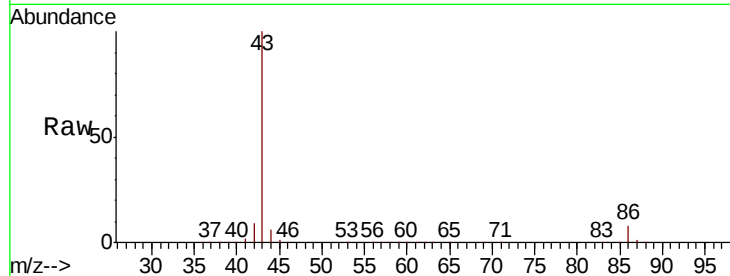
ClientSampleId :

Tot Ion: 43 Resp: 1320435

Ion Ratio Lower Upper

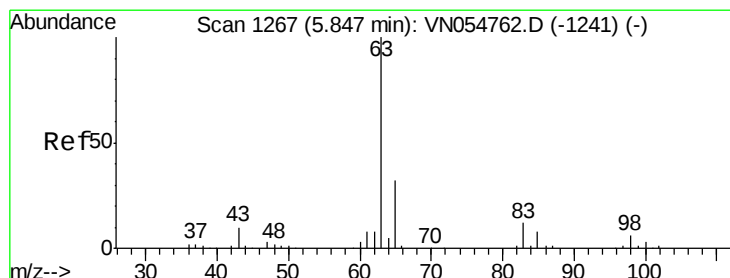
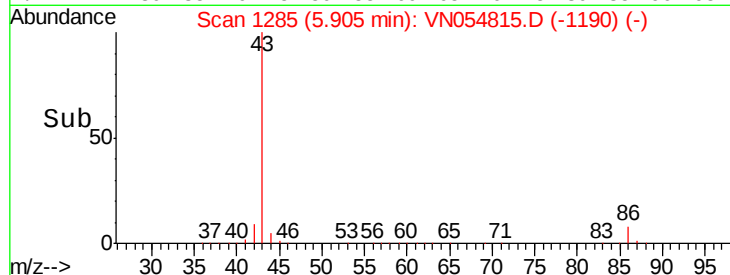
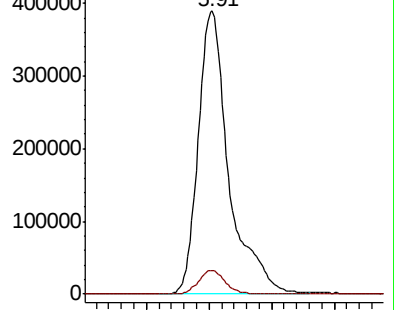
43 100

86 8.5 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN054815.D (-1190) (-)

Ion 86.00 (85.70 to 86.70): VN054815.D (-1190) (-)



#24

1,1-Dichloroethane

Concen: 22.710 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

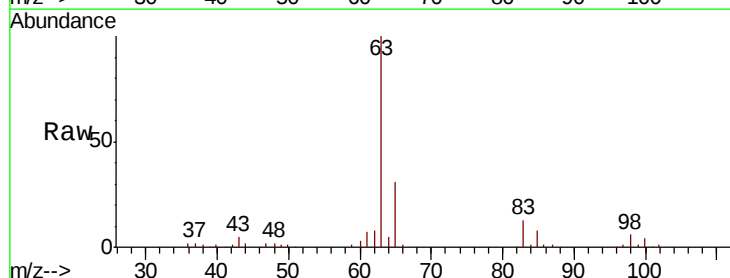
Tgt Ion: 63 Resp: 190721

Ion Ratio Lower Upper

63 100

98 5.6 3.5 10.5

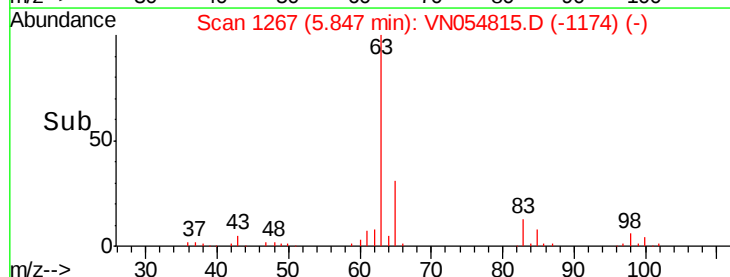
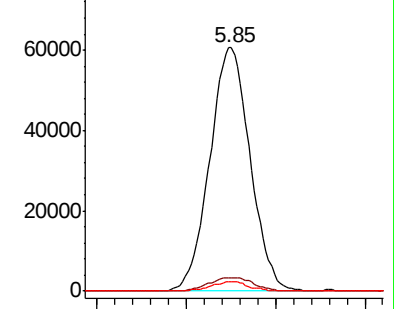
100 4.0 2.0 6.0

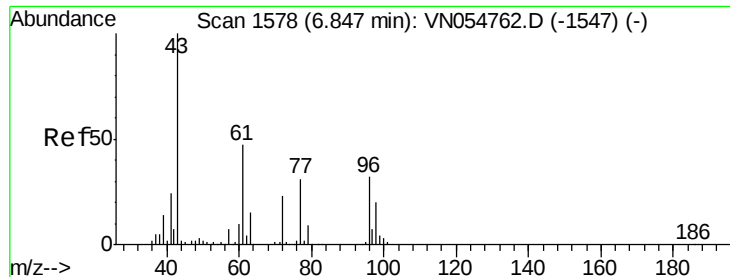


Abundance Ion 62.90 (62.60 to 63.60): VN054815.D (-1174) (-)

Ion 97.90 (97.60 to 98.60): VN054815.D (-1174) (-)

Ion 99.90 (99.60 to 100.60): VN054815.D (-1174) (-)





#25

2-Butanone

Concen: 134.992 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

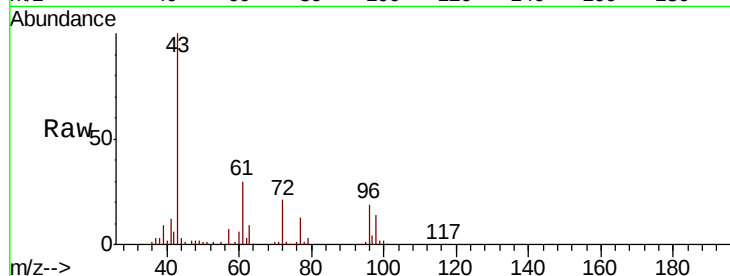
ClientSampled :

Tot Ion: 43 Resp: 263712

Ion Ratio Lower Upper

43 100

72 21.3 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.85

100000

80000

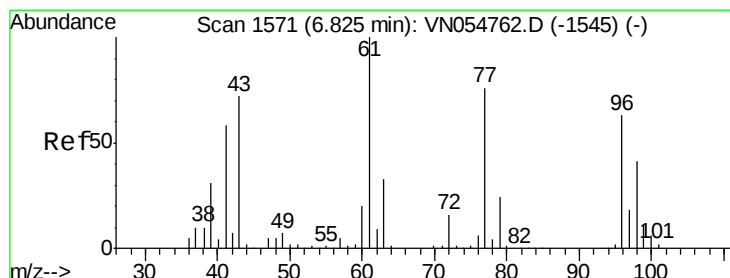
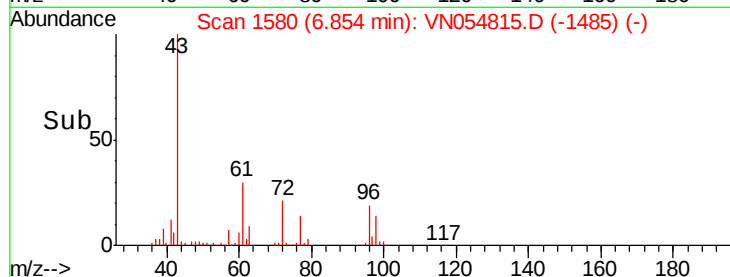
60000

40000

20000

0

Time--> 6.70 6.80 6.90



#26

2,2-Dichloropropane

Concen: 15.845 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054815.D

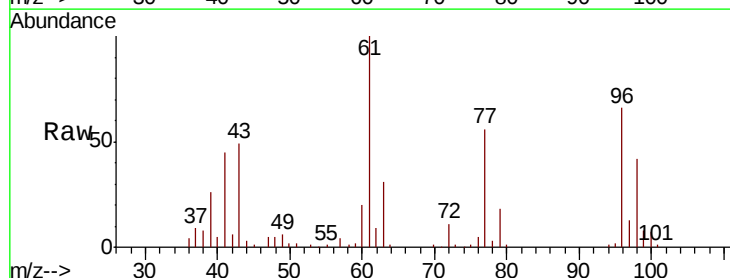
Acq: 30 Mar 2019 20:52

Tgt Ion: 77 Resp: 93264

Ion Ratio Lower Upper

77 100

97 25.2 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.82

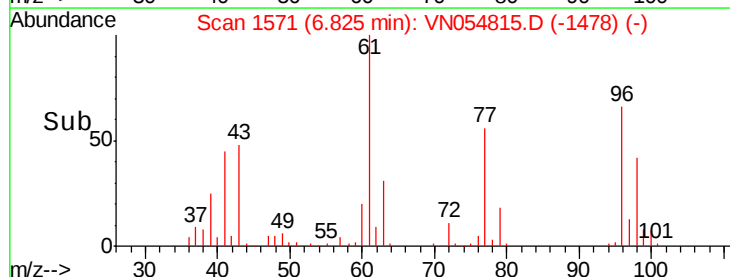
30000

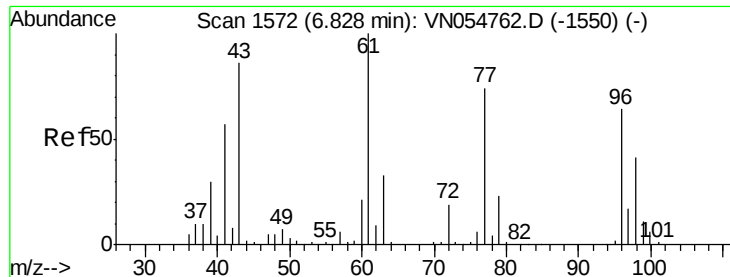
20000

10000

0

Time--> 6.70 6.80 6.90



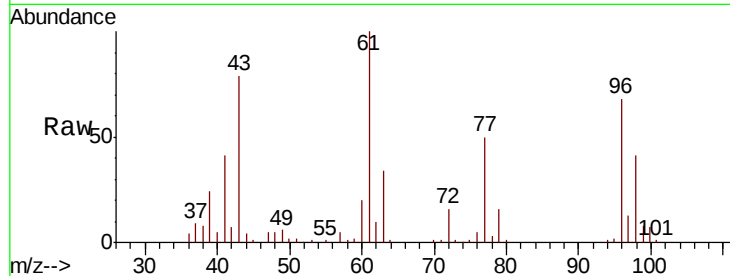


#27

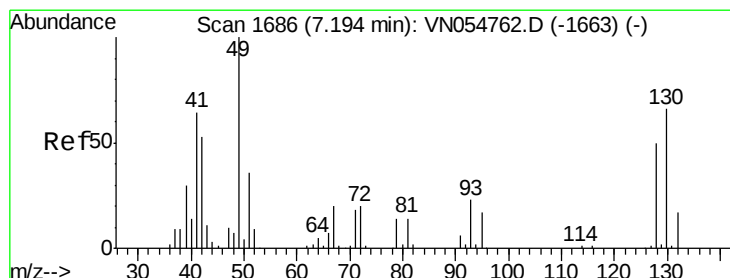
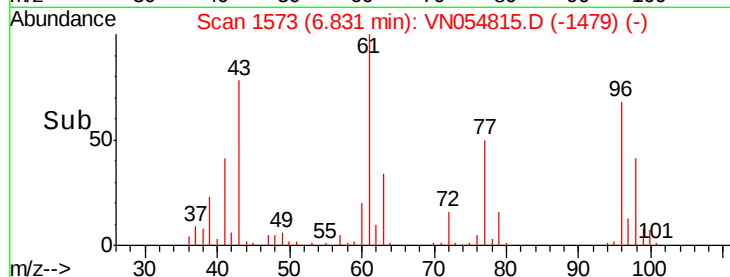
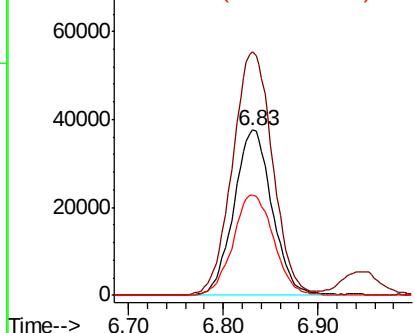
cis-1,2-Dichloroethene
Concen: 22.033 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.6	0.0	273.0
98	64.5	0.0	130.6



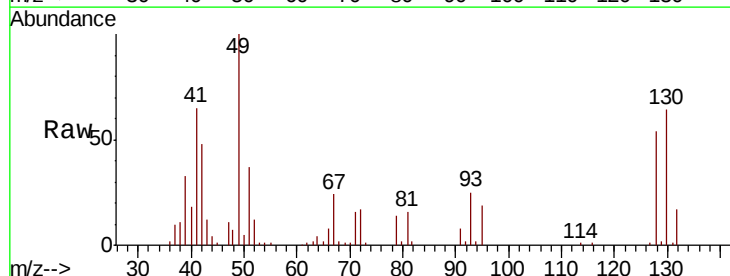
Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



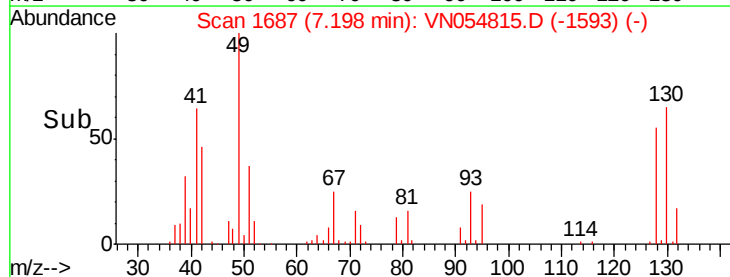
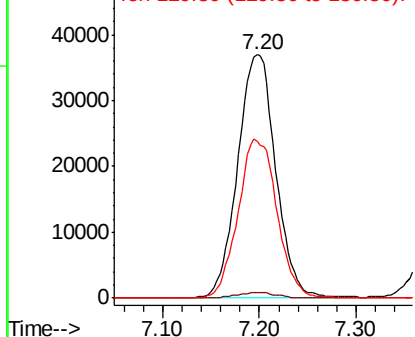
#28

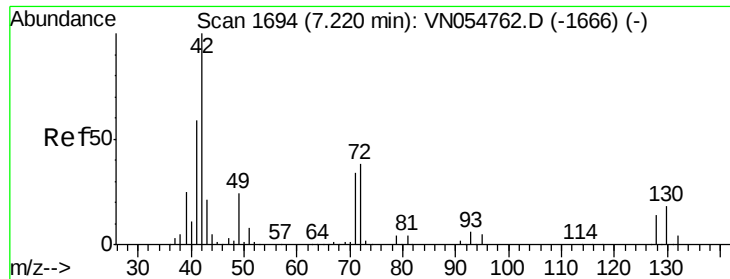
Bromochloromethane
Concen: 24.120 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.6
130	66.8	76.7	115.1#



Abundance Ion 48.90 (48.60 to 49.60): VN0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 131.558 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

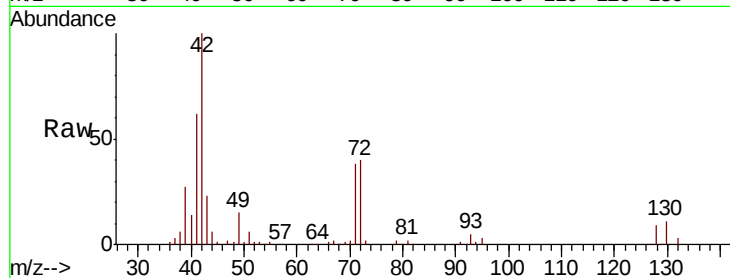
Tot Ion: 42 Resp: 178501

Ion Ratio Lower Upper

42 100

72 37.5 37.8 56.6#

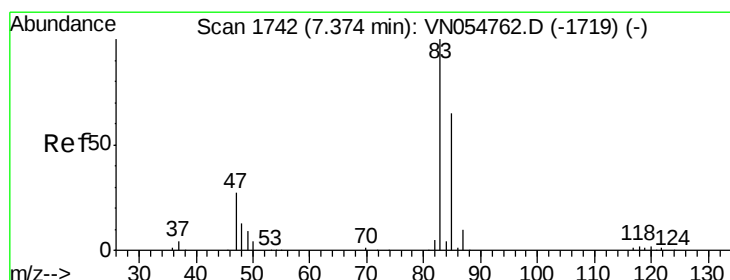
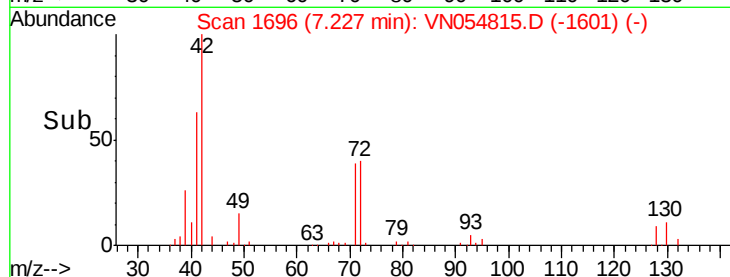
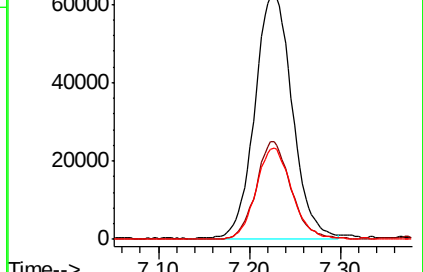
71 35.9 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN054762.D (-1666) (-)

Ion 72.00 (71.70 to 72.70): VN054762.D (-1666) (-)

Ion 71.00 (70.70 to 71.70): VN054762.D (-1666) (-)



#30

Chloroform

Concen: 23.029 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN054815.D

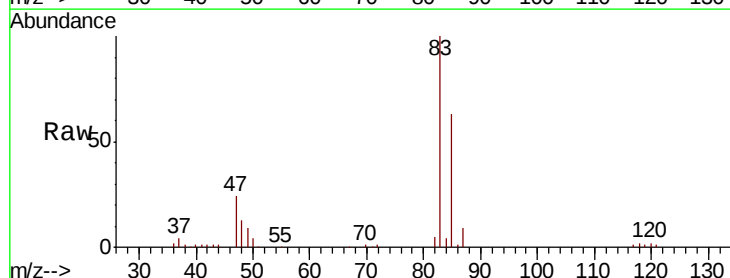
Acq: 30 Mar 2019 20:52

Tgt Ion: 83 Resp: 184419

Ion Ratio Lower Upper

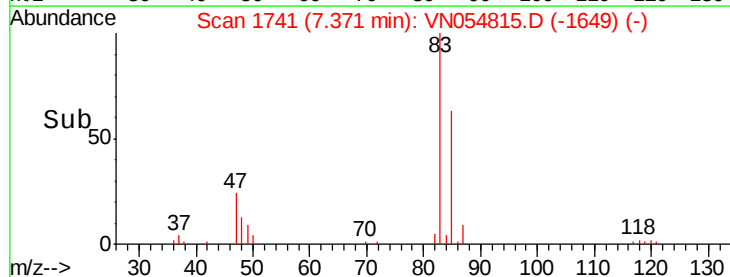
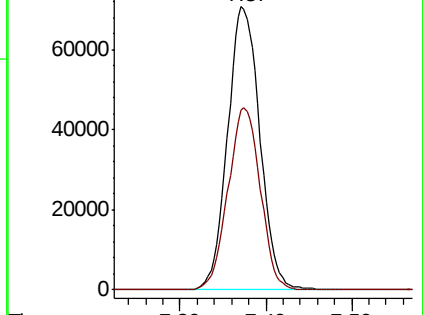
83 100

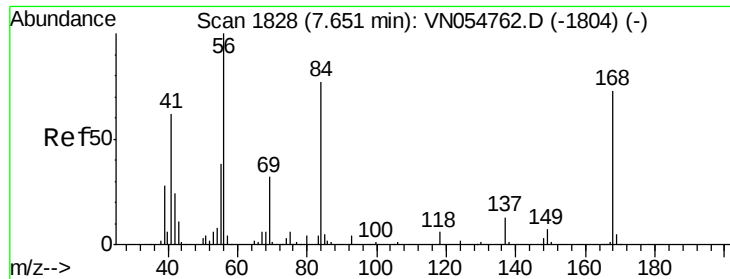
85 63.3 52.2 78.4



Abundance Ion 82.90 (82.60 to 83.60): VN054762.D (-1719) (-)

Ion 84.90 (84.60 to 85.60): VN054762.D (-1719) (-)

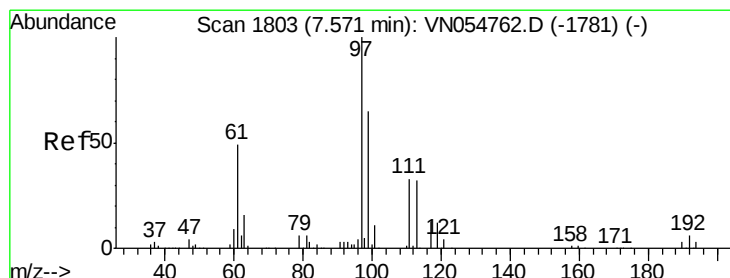
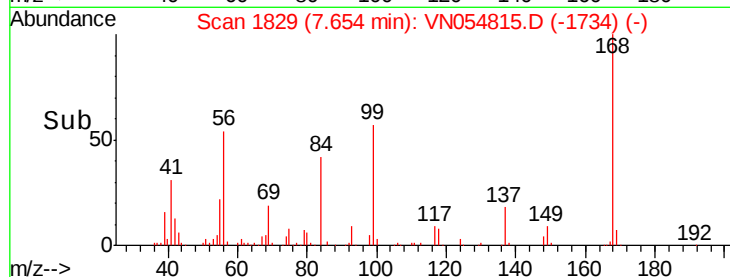
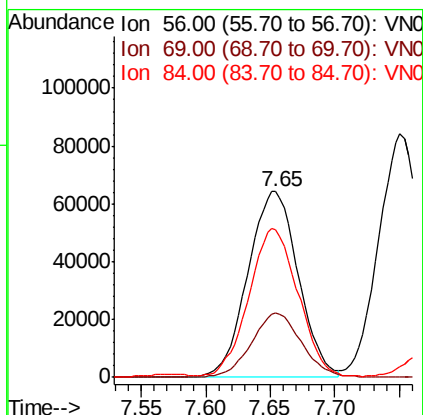
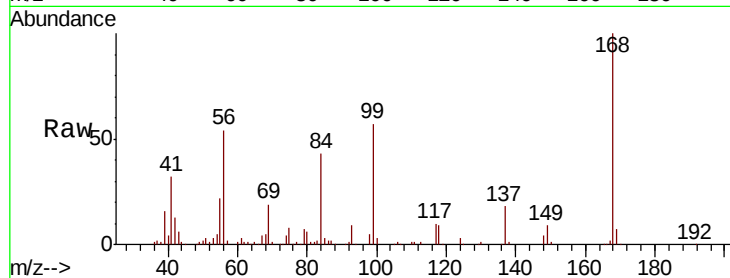




#31
Cyclohexane
Concen: 21.690 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

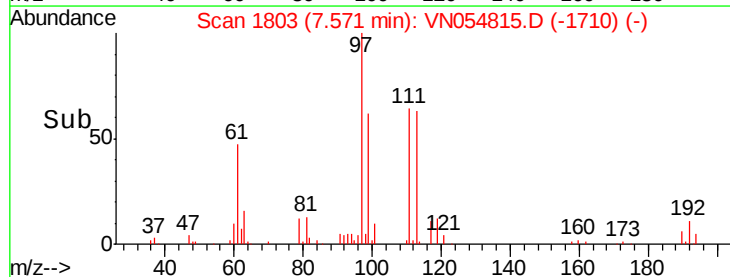
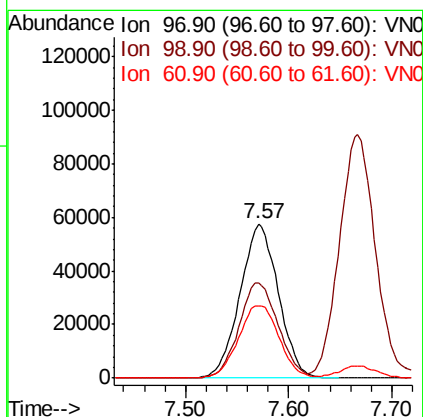
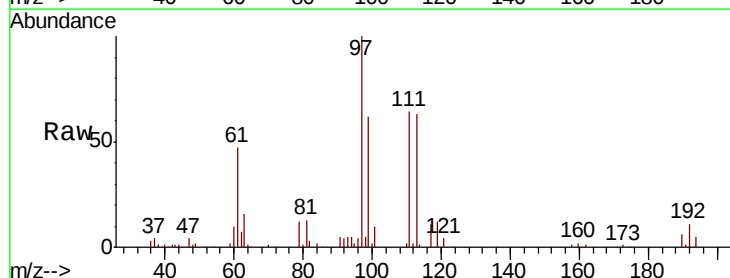
Instrument :
MSVOA_N
ClientSampleId :

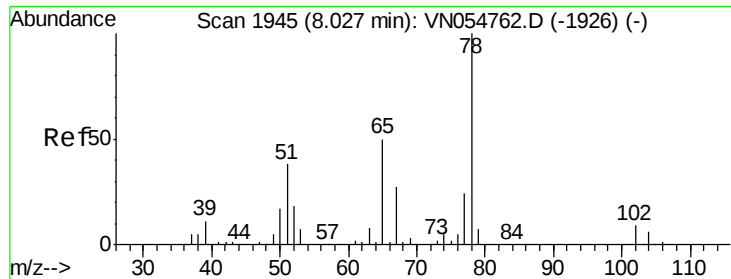
Tot Ion: 56 Resp: 174906
Ion Ratio Lower Upper
56 100
69 34.6 27.8 41.6
84 78.2 74.6 111.8



#32
1,1,1-Trichloroethane
Concen: 22.430 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 97 Resp: 148852
Ion Ratio Lower Upper
97 100
99 63.1 51.5 77.3
61 50.0 33.6 50.4

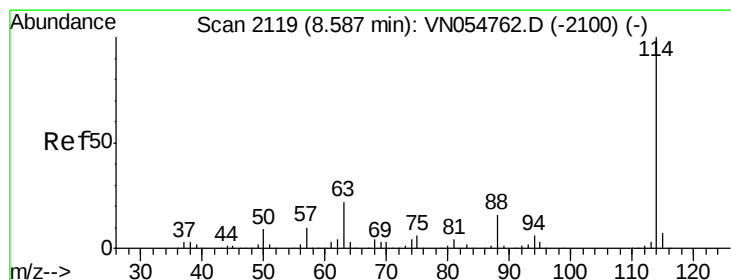
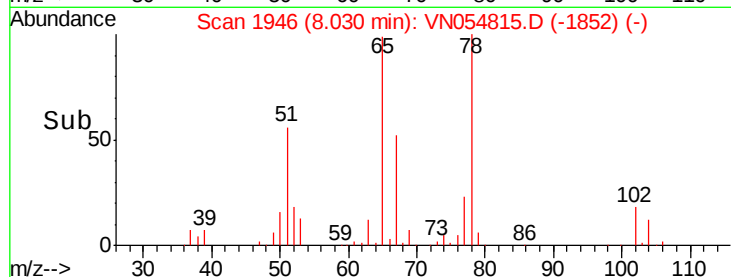
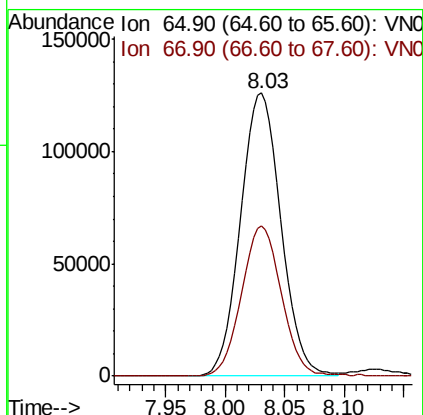
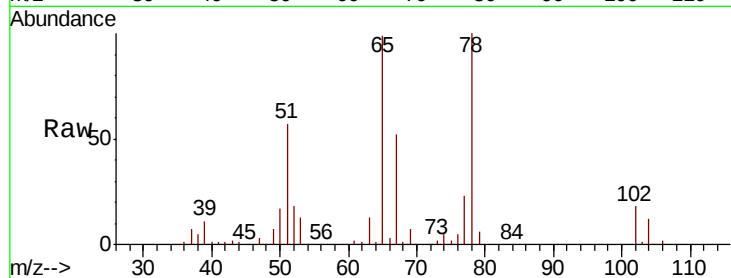




#33
 1,2-Dichloroethane-d4
 Concen: 53.561 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

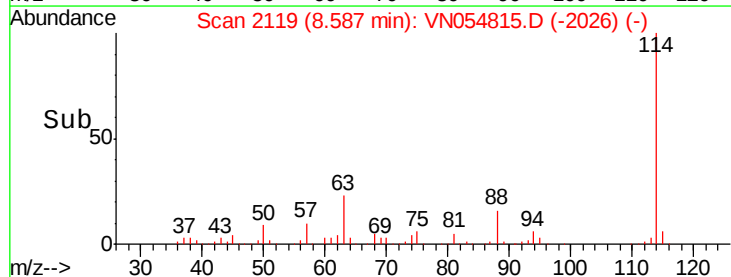
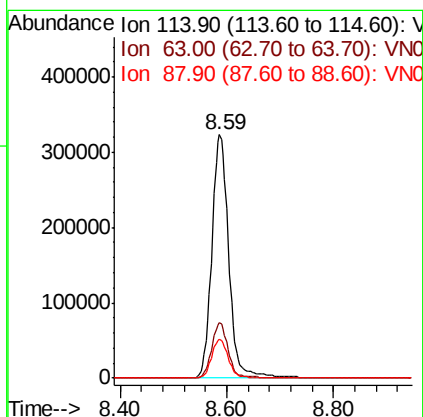
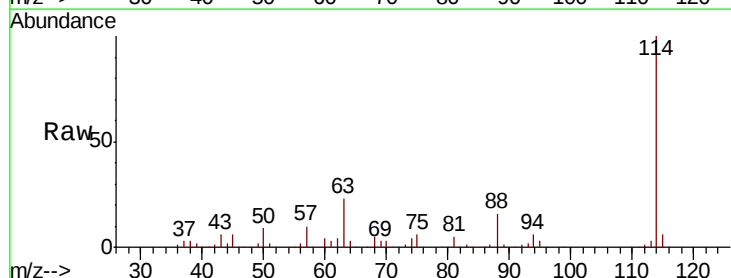
Instrument :
 MSVOA_N
 ClientSampleId :

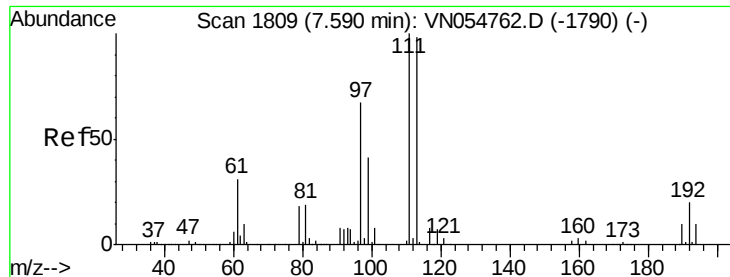
Tot Ion: 65 Resp: 296835
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion: 114 Resp: 716702
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.868 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

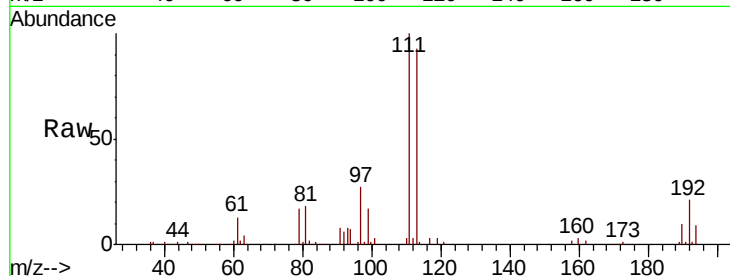
Tot Ion:113 Resp: 228723

Ion Ratio Lower Upper

113 100

111 103.8 82.2 123.4

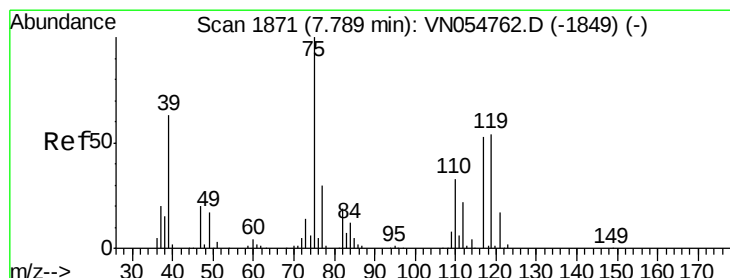
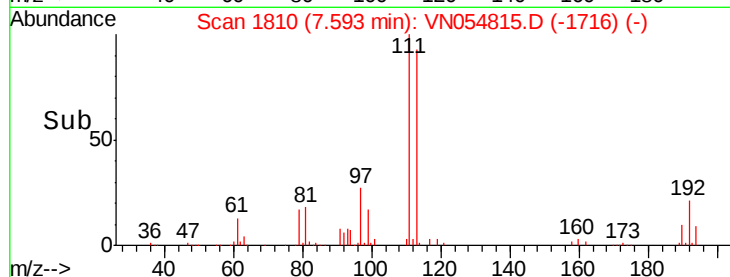
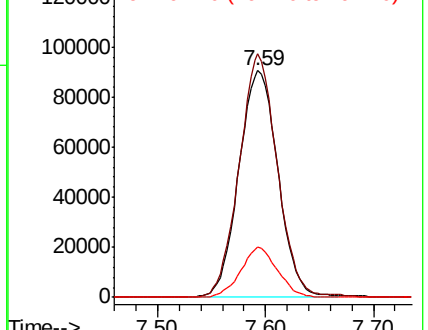
192 20.8 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 19.600 ug/l

RT: 7.79 min Scan# 1872

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

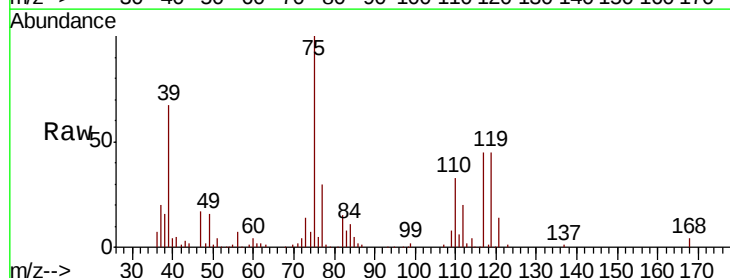
Tgt Ion: 75 Resp: 130896

Ion Ratio Lower Upper

75 100

110 34.4 19.1 57.5

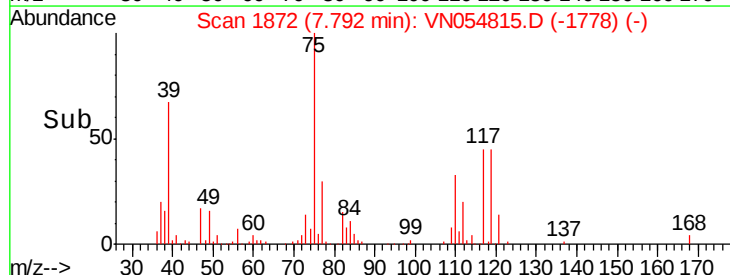
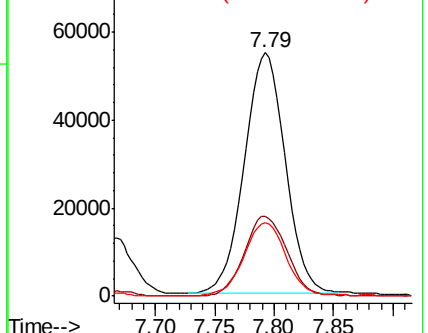
77 31.6 25.0 37.4

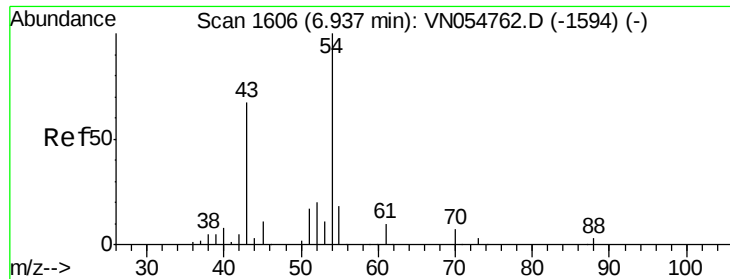


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

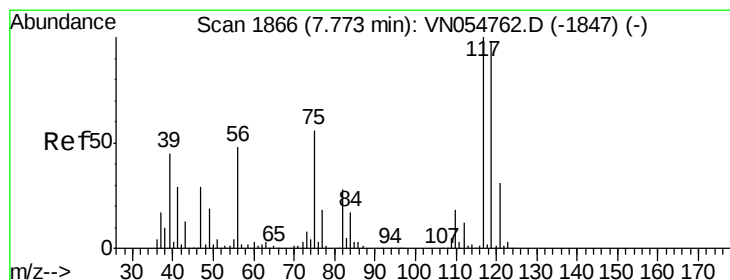
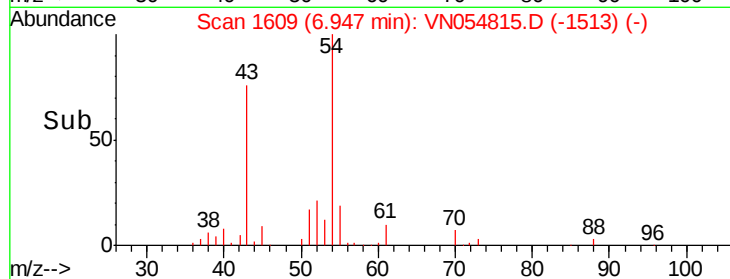
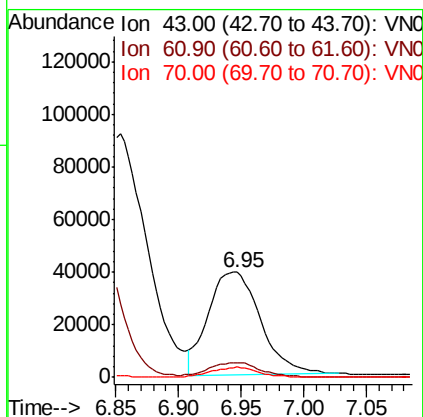
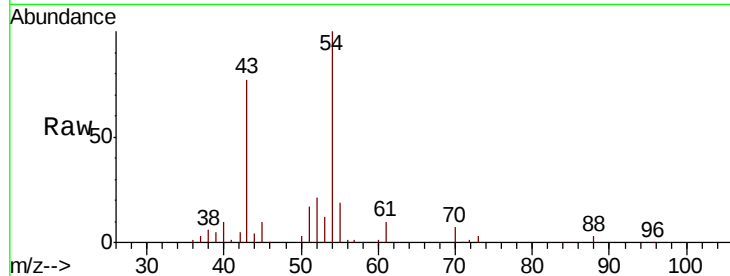




#37
Ethyl Acetate
Concen: 23.142 ug/l
RT: 6.95 min Scan# 1609
Delta R.T. 0.01 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

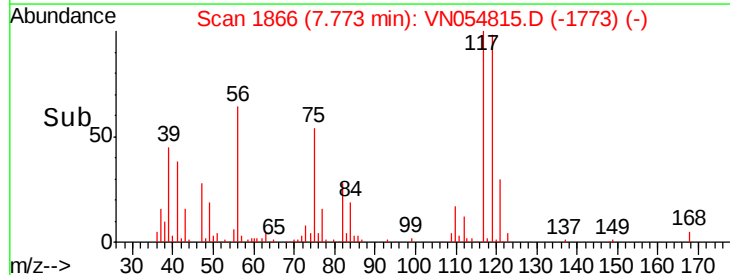
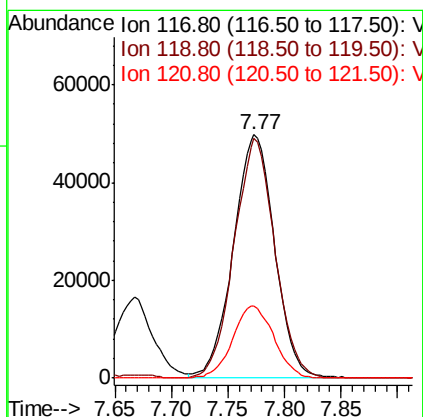
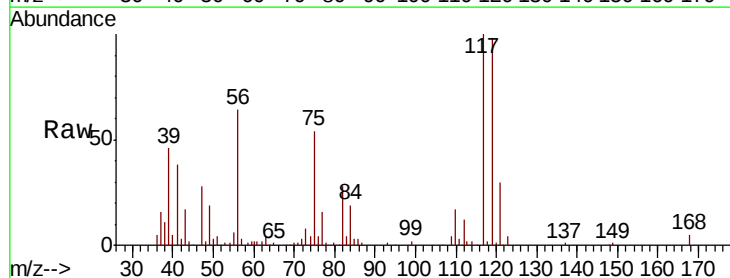
Instrument :
MSVOA_N
ClientSampled :

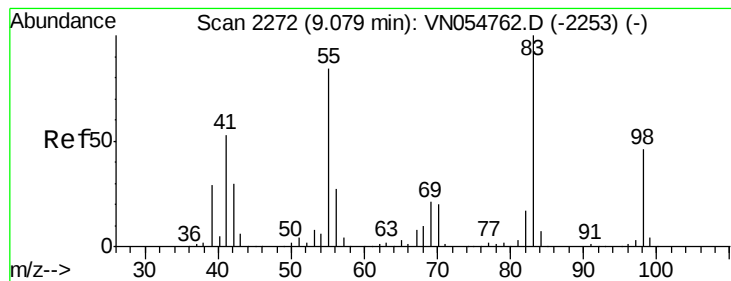
Tot Ion: 43 Resp: 113333
Ion Ratio Lower Upper
43 100
61 13.5 11.8 17.6
70 9.1 8.4 12.6



#38
Carbon Tetrachloride
Concen: 19.276 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 117 Resp: 125035
Ion Ratio Lower Upper
117 100
119 98.7 76.3 114.5
121 29.8 24.6 36.8





#39

Methvlcvclohexane

Concen: 18.752 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

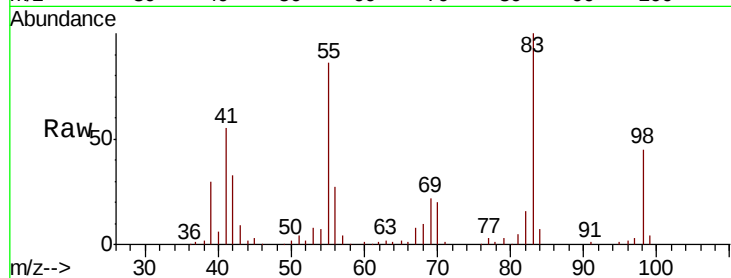
Tot Ion: 83 Resp: 137675

Ion Ratio Lower Upper

83 100

55 85.6 56.6 84.8#

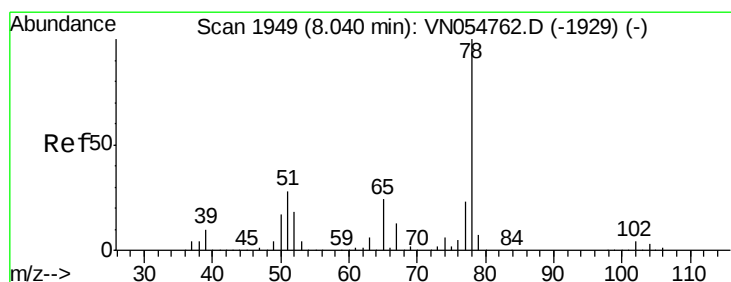
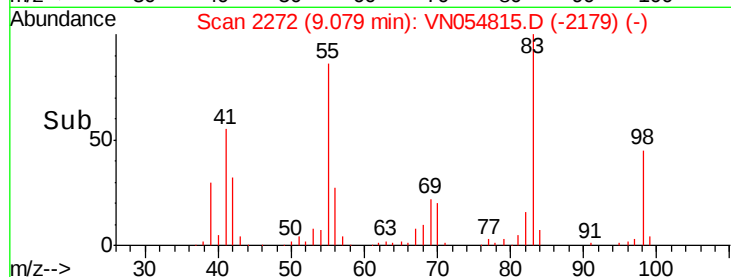
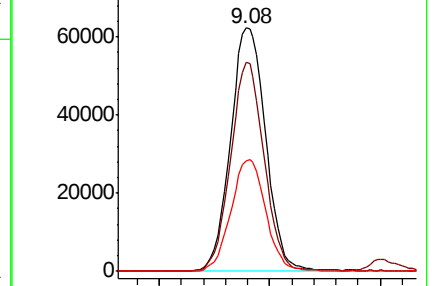
98 45.5 38.4 57.6



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#40

Benzene

Concen: 21.214 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN054815.D

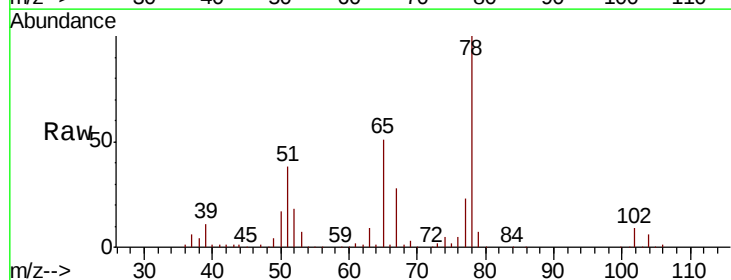
Acq: 30 Mar 2019 20:52

Tgt Ion: 78 Resp: 405377

Ion Ratio Lower Upper

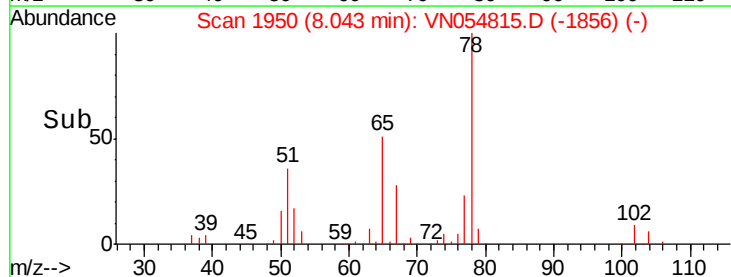
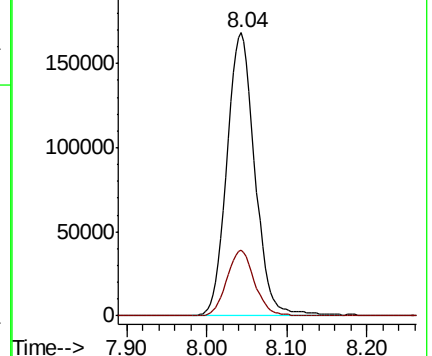
78 100

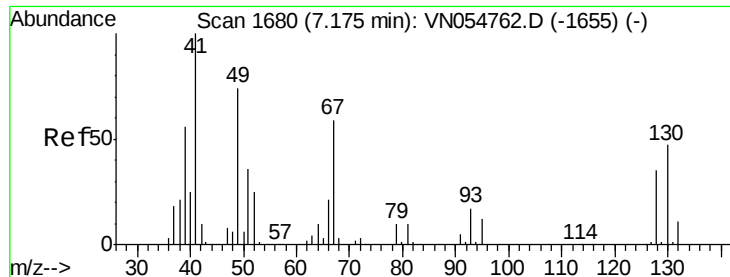
77 23.1 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

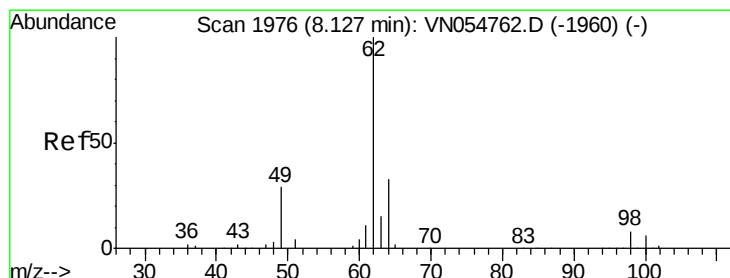
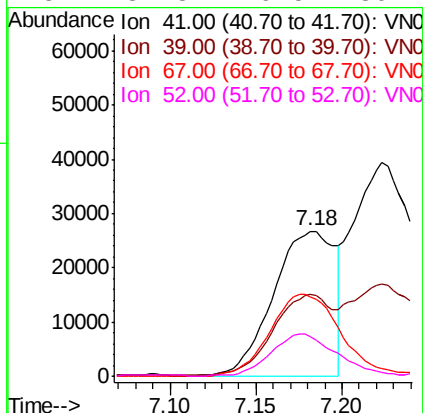
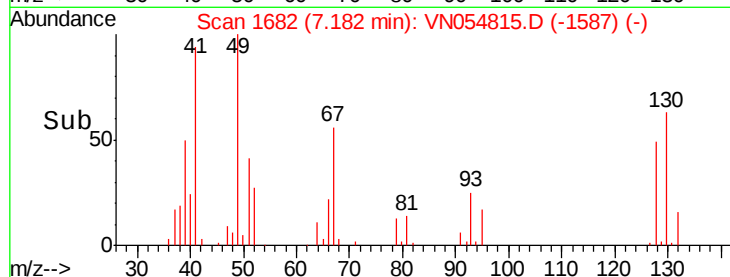
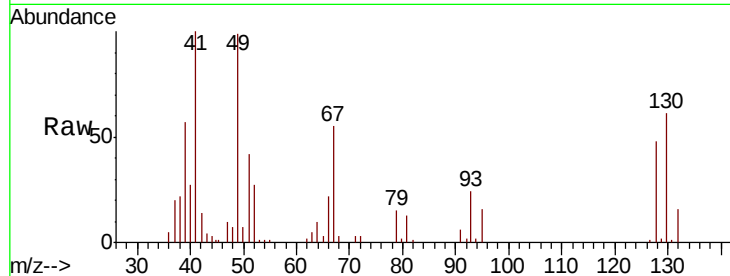




#41
Methacrylonitrile
Concen: 24.245 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

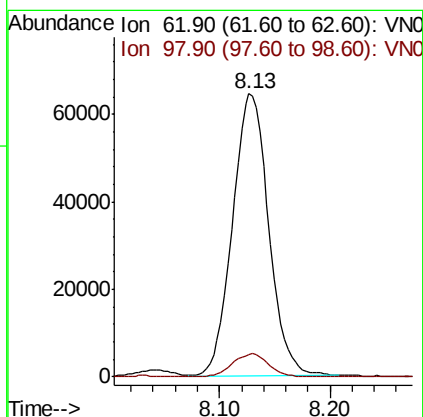
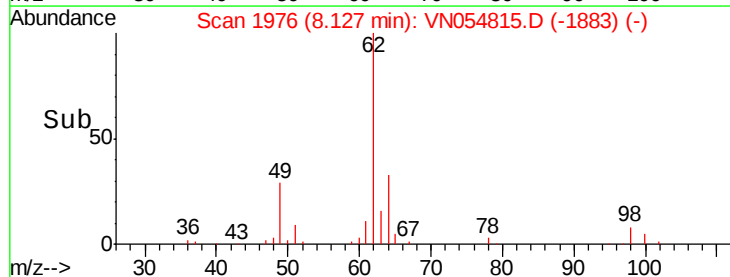
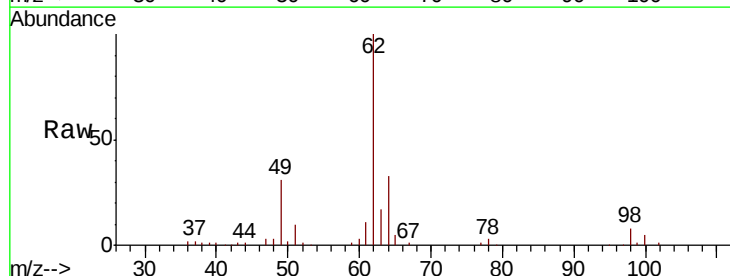
Instrument :
MSVOA_N
ClientSampled :

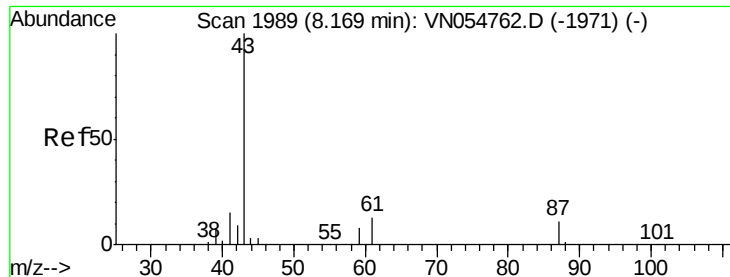
Tot Ion: 41 Resp: 66701
Ion Ratio Lower Upper
41 100
39 50.6 46.8 70.2
67 65.8 67.0 100.4#
52 31.8 26.5 39.7



#42
1,2-Dichloroethane
Concen: 21.532 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 62 Resp: 146917
Ion Ratio Lower Upper
62 100
98 8.2 0.0 18.4





#43

Isopropyl Acetate

Concen: 24.153 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

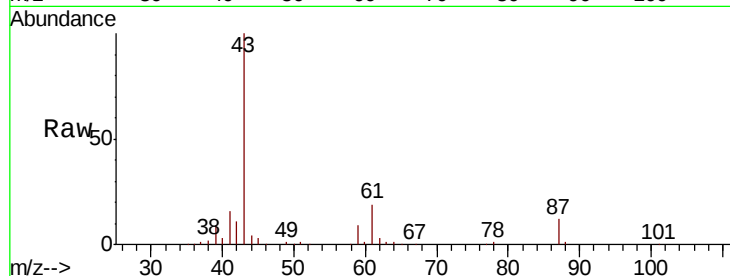
Tot Ion: 43 Resp: 192200

Ion Ratio Lower Upper

43 100

61 18.4 15.8 23.8

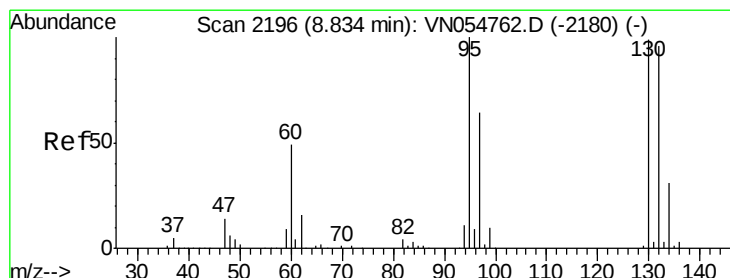
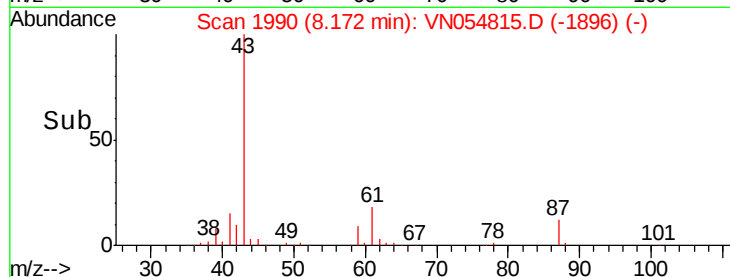
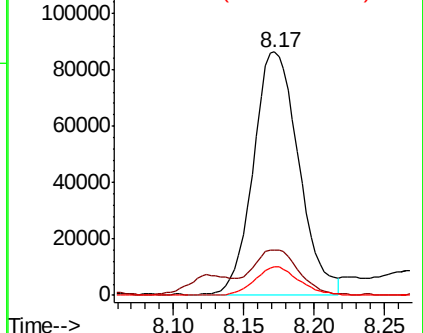
87 11.6 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054762.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054762.D (-1971) (-)



#44

Trichloroethene

Concen: 20.299 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054815.D

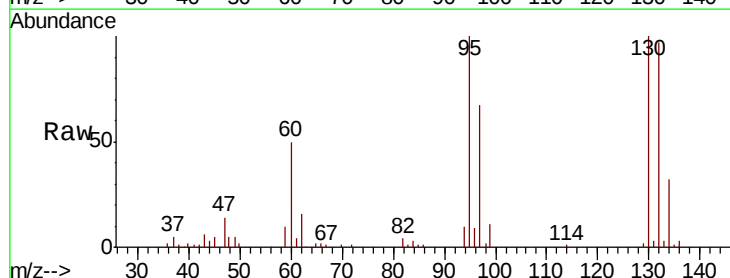
Acq: 30 Mar 2019 20:52

Tgt Ion:130 Resp: 100695

Ion Ratio Lower Upper

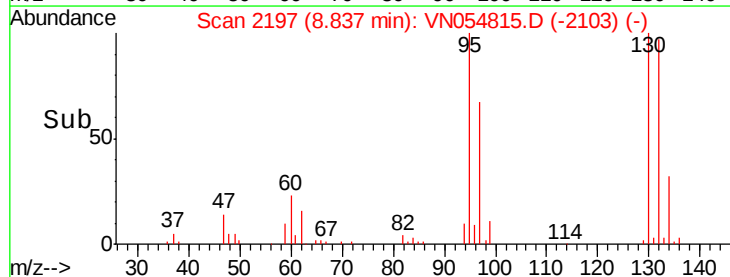
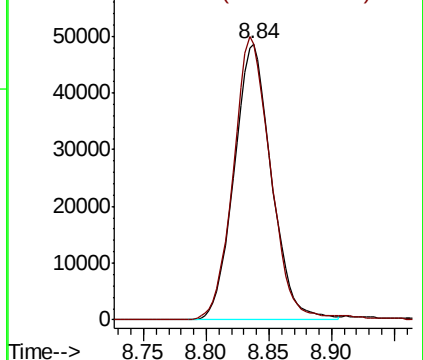
130 100

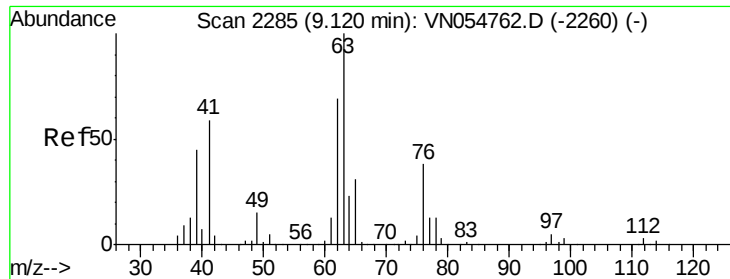
95 100.0 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054762.D (-2180) (-)

Ion 94.90 (94.60 to 95.60): VN054762.D (-2180) (-)





#45

1,2-Dichloropropane

Concen: 20.801 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

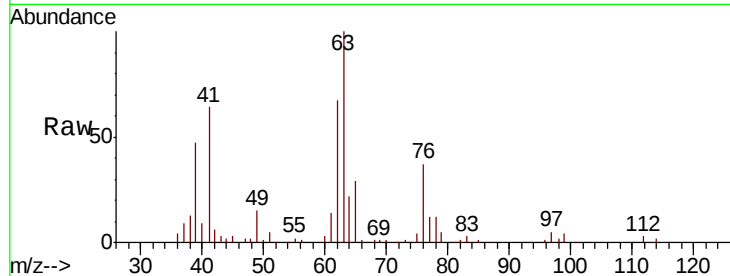
ClientSampled :

Tot Ion: 63 Resp: 113342

Ion Ratio Lower Upper

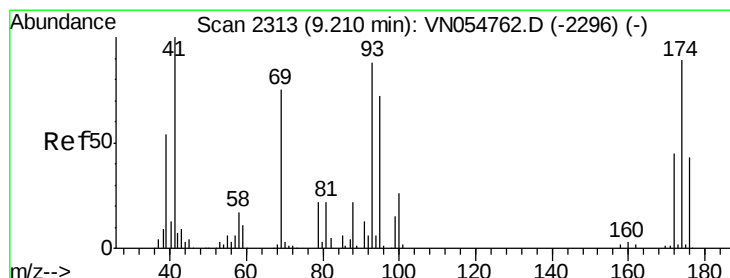
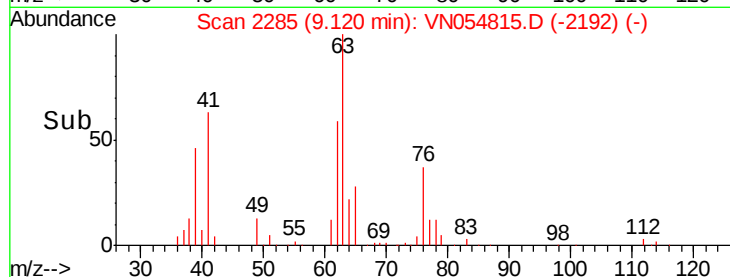
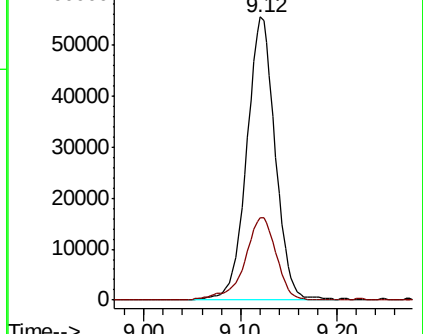
63 100

65 29.0 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 21.795 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

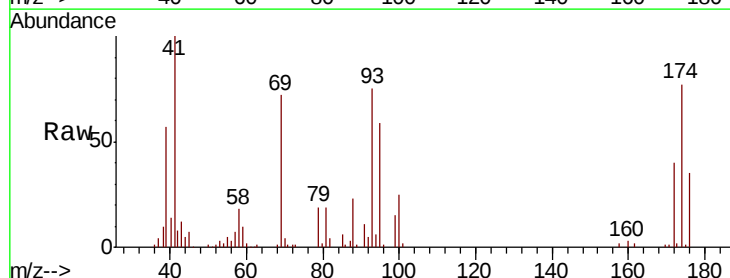
Tgt Ion: 93 Resp: 66804

Ion Ratio Lower Upper

93 100

95 83.0 66.7 100.1

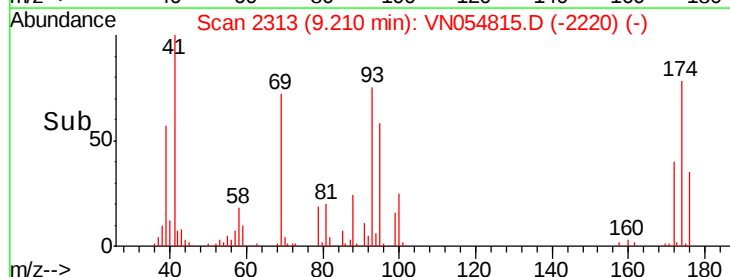
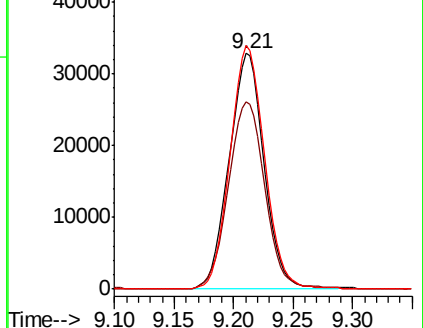
174 101.9 98.5 147.7

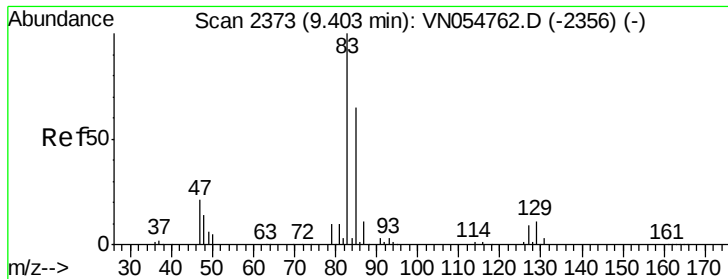


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 21.410 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

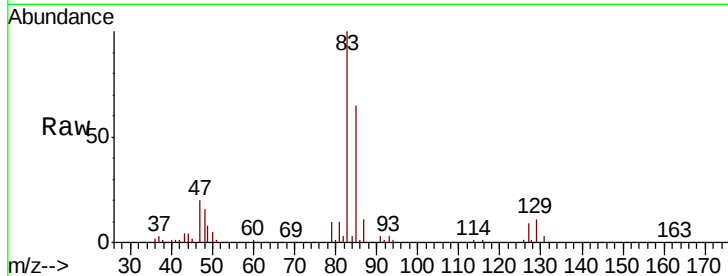
Tot Ion: 83 Resp: 136386

Ion Ratio Lower Upper

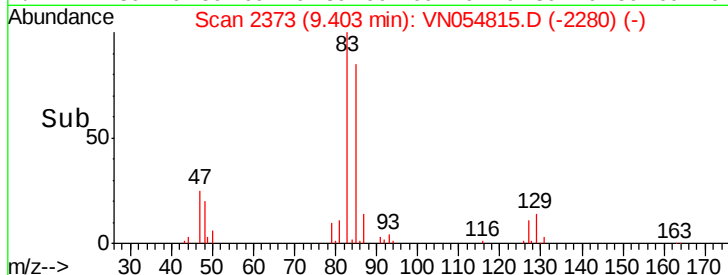
83 100

85 64.6 52.8 79.2

127 8.6 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN054815.D (-2280) (-)



Ion 84.90 (84.60 to 85.60): VN054815.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN054815.D (-2280) (-)

Time-->

9.30 9.35 9.40 9.45 9.50

80000

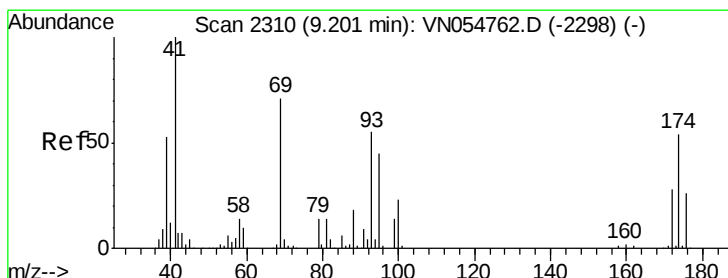
60000

40000

20000

0

9.40



#48

Methyl methacrylate

Concen: 22.053 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

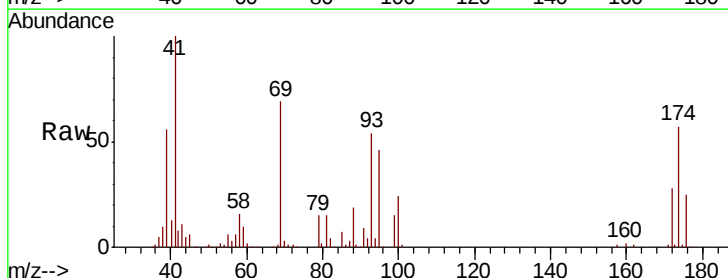
Tgt Ion: 41 Resp: 95126

Ion Ratio Lower Upper

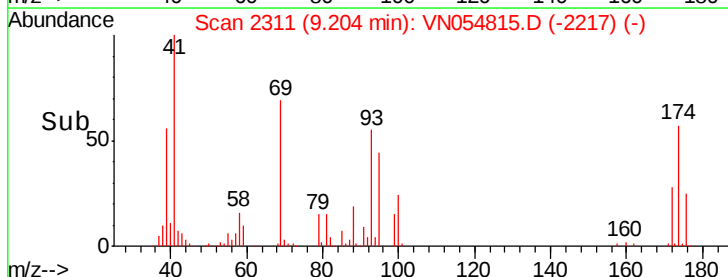
41 100

69 73.6 72.6 108.8

39 56.5 47.5 71.3



Abundance Ion 41.00 (40.70 to 41.70): VN054815.D (-2217) (-)



Ion 69.00 (68.70 to 69.70): VN054815.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN054815.D (-2217) (-)

Time-->

9.15 9.20 9.25

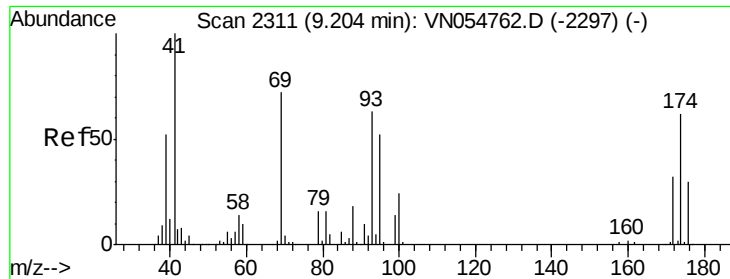
60000

40000

20000

0

9.20



#49

1,4-Dioxane

Concen: 502.685 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

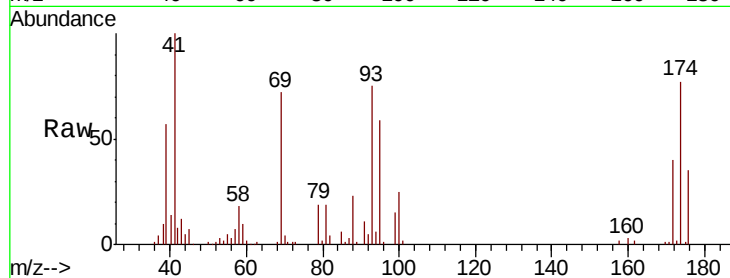
Tot Ion: 88 Resp: 21515

Ion Ratio Lower Upper

88 100

43 36.9 24.1 36.1#

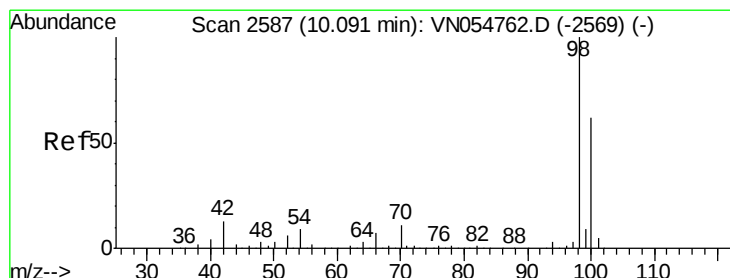
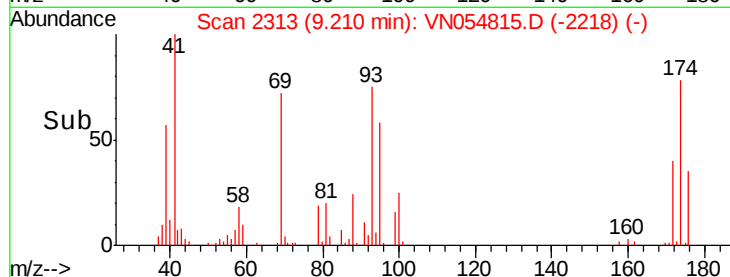
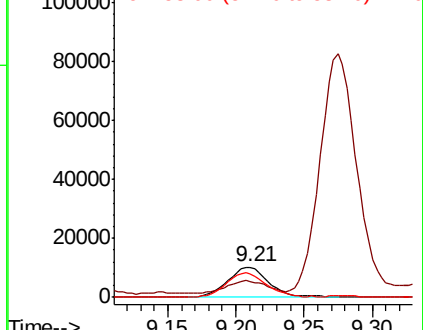
58 79.3 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN054815.D (-2218) (-)

Ion 43.00 (42.70 to 43.70): VN054815.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN054815.D (-2218) (-)



#50

Toluene-d8

Concen: 45.947 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054815.D

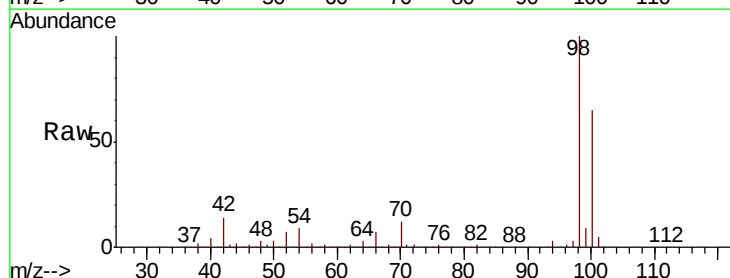
Acq: 30 Mar 2019 20:52

Tgt Ion: 98 Resp: 816209

Ion Ratio Lower Upper

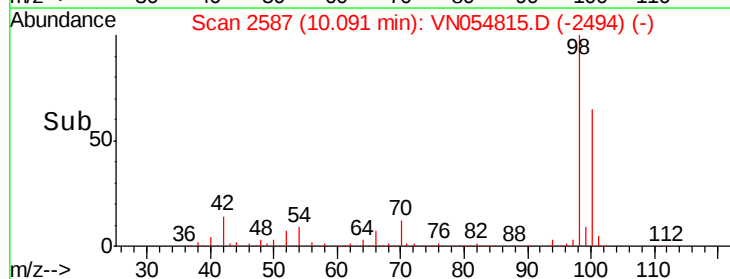
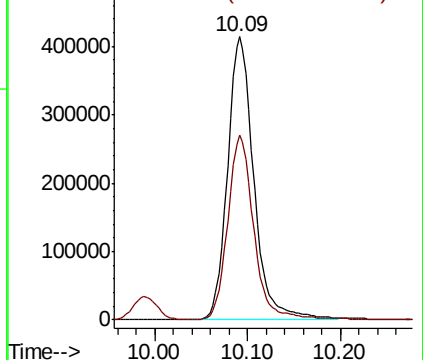
98 100

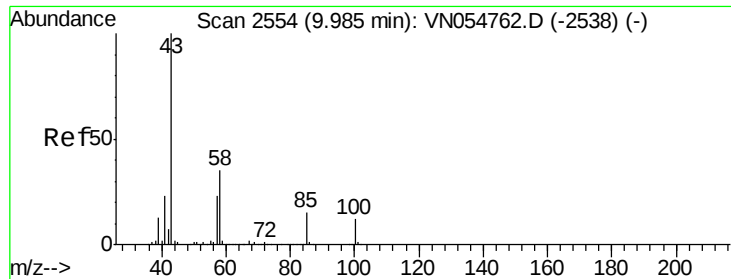
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054815.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN054815.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 123.806 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

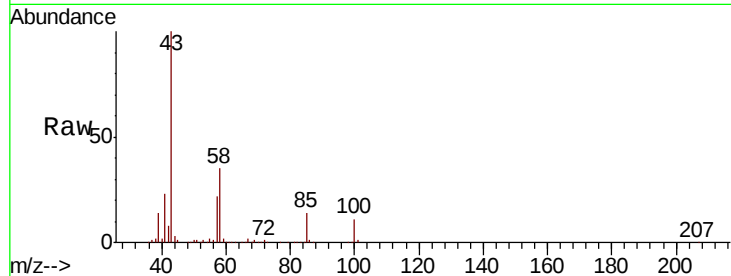
ClientSampleId :

Tot Ion: 43 Resp: 553895

Ion Ratio Lower Upper

43 100

58 35.3 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)

9.99

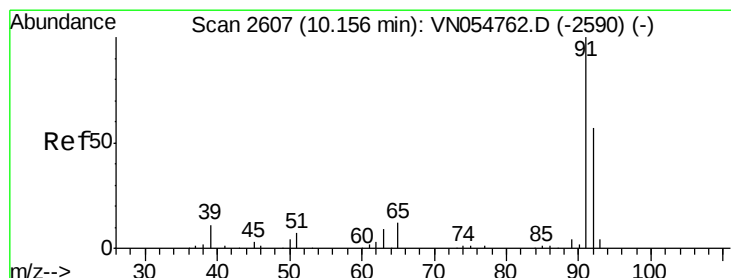
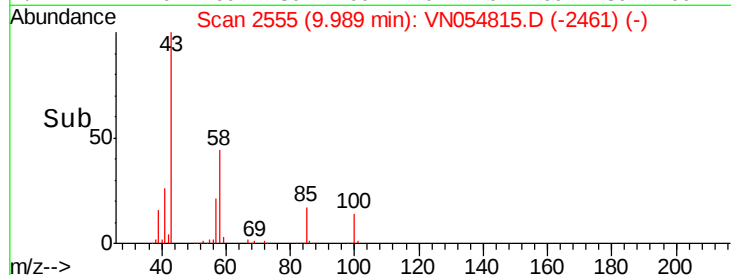
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 20.333 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054815.D

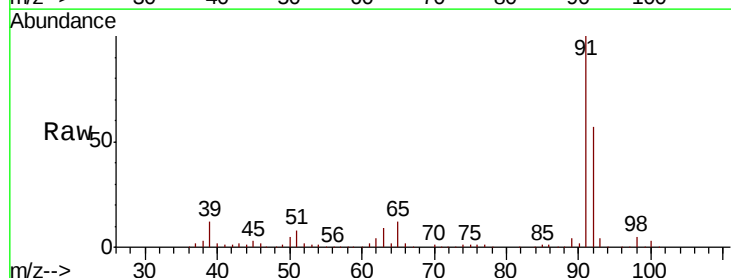
Acq: 30 Mar 2019 20:52

Tgt Ion: 92 Resp: 231201

Ion Ratio Lower Upper

92 100

91 176.4 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN054762.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN054762.D (-2590) (-)

10.16

200000

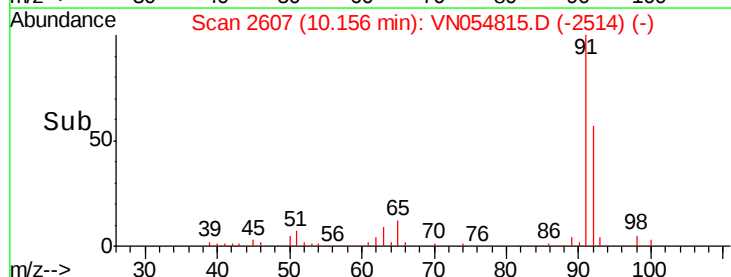
150000

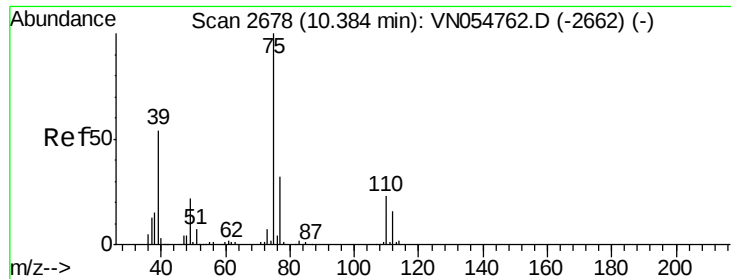
100000

50000

0

Time-->

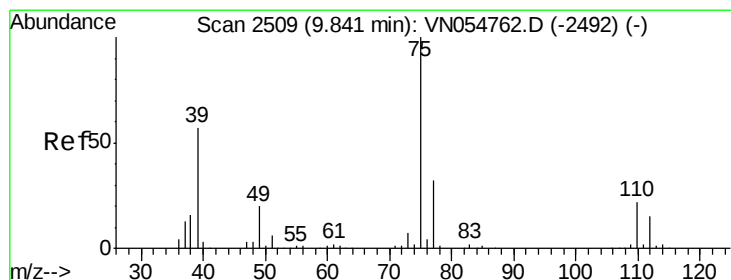
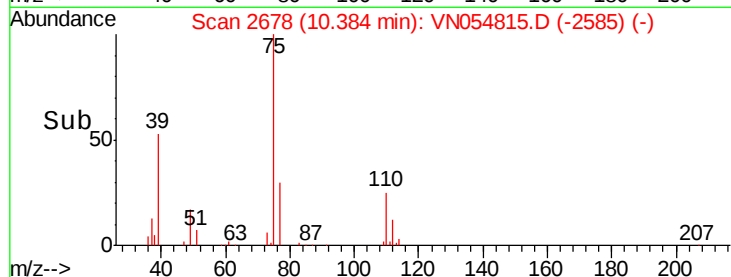
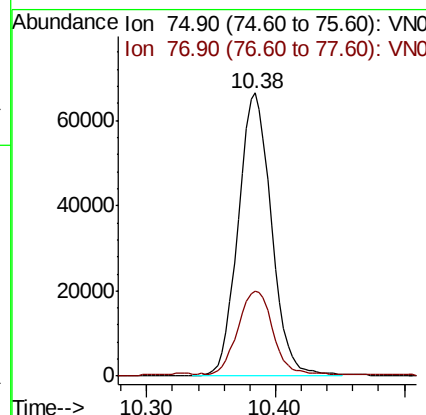
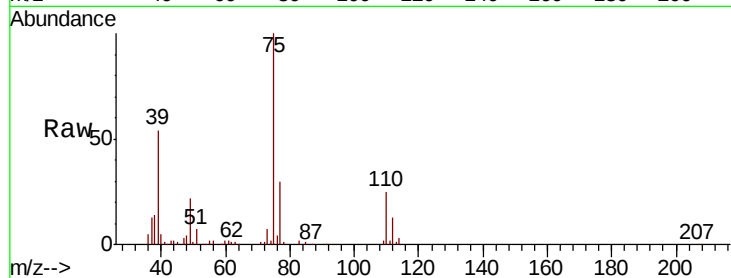




#53
 t-1,3-Dichloropropene
 Concen: 19.874 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

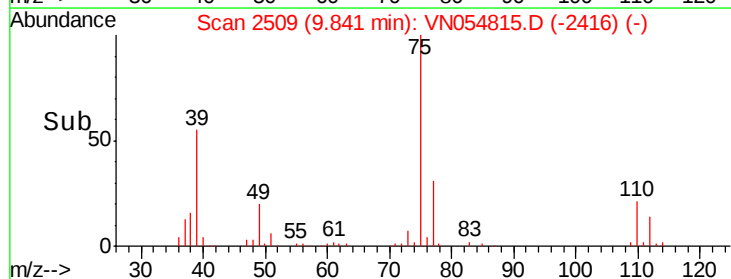
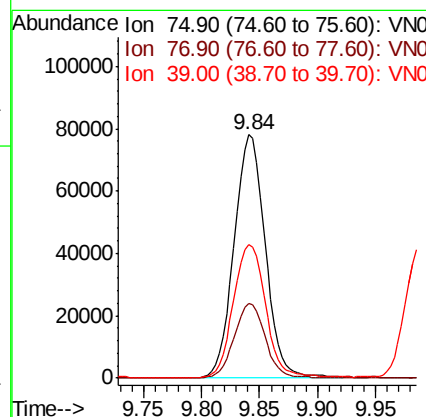
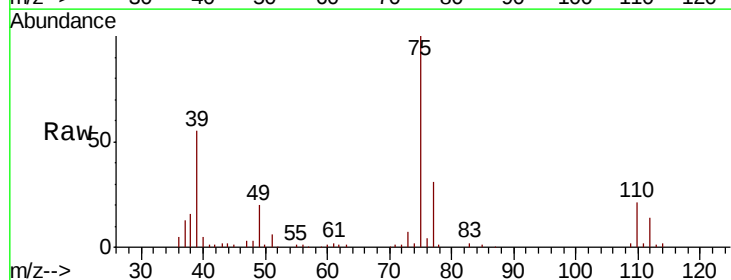
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 119090
 Ion Ratio Lower Upper
 75 100
 77 29.5 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.392 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion: 75 Resp: 145966
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.4 38.0
 39 54.7 37.2 55.8

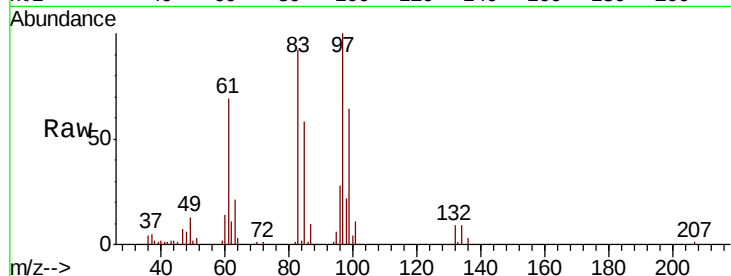




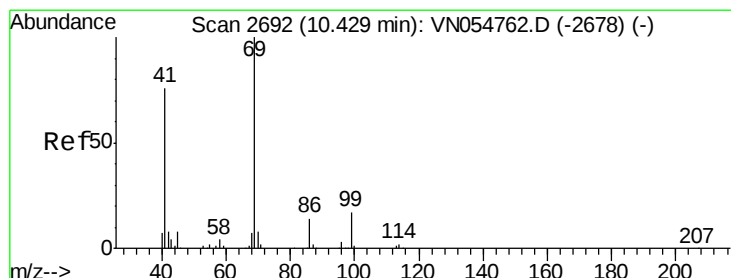
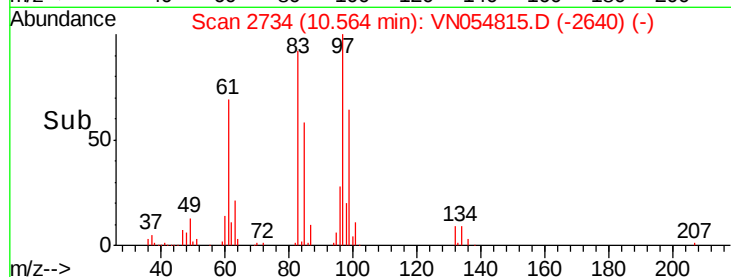
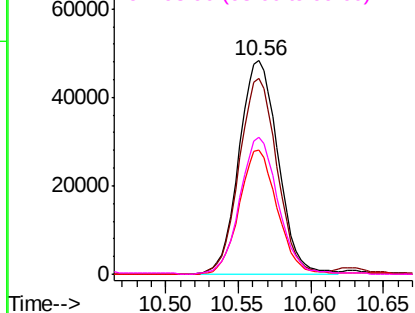
#55
 1,1,2-Trichloroethane
 Concen: 21.448 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:	97	Resp:	90682
Ion	Ratio	Lower	Upper
97	100		
83	91.9	66.6	100.0
85	58.2	44.4	66.6
99	64.3	50.8	76.2

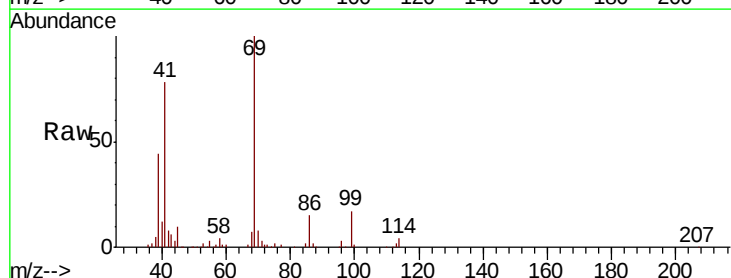


Abundance Ion 96.90 (96.60 to 97.60): VNO
 Ion 82.90 (82.60 to 83.60): VNO
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 98.90 (98.60 to 99.60): VNO

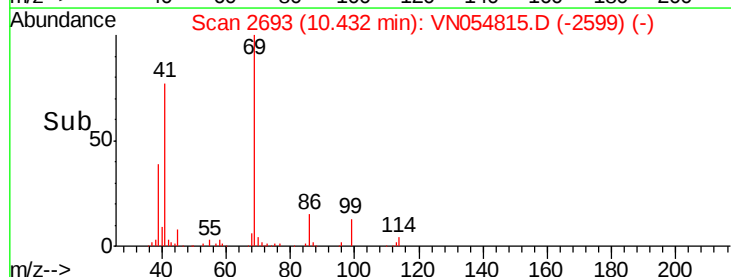
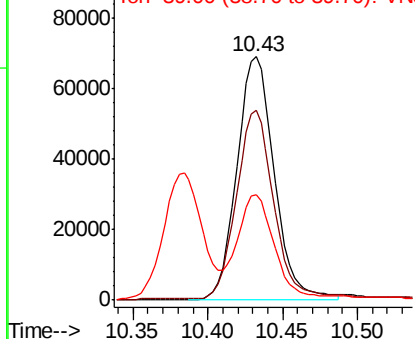


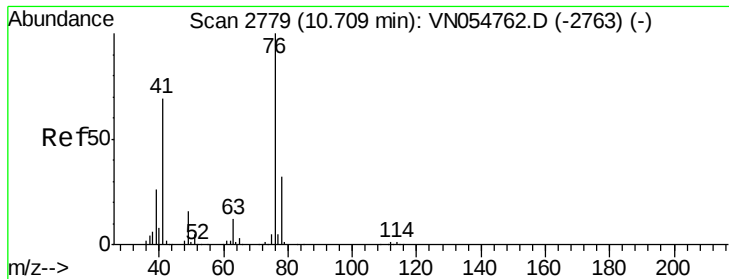
#56
 Ethyl methacrylate
 Concen: 21.704 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion:	69	Resp:	120375
Ion	Ratio	Lower	Upper
69	100		
41	77.5	49.4	74.2#
39	39.9	28.3	42.5



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





#57

1,3-Dichloropropane

Concen: 21.597 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

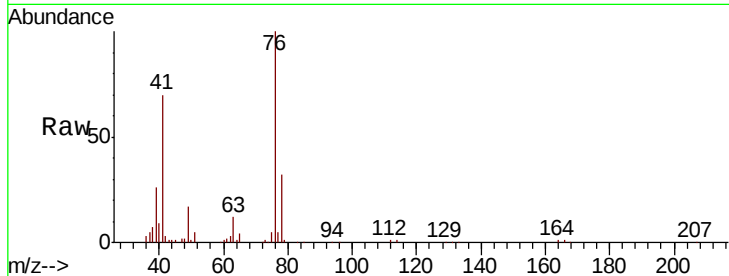
ClientSampleId :

Tot Ion: 76 Resp: 156987

Ion Ratio Lower Upper

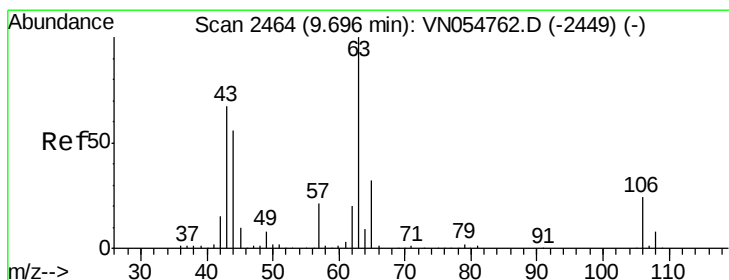
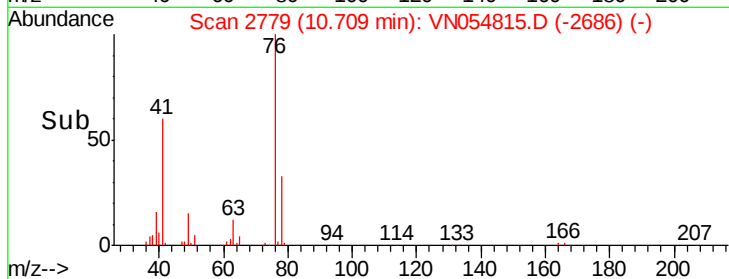
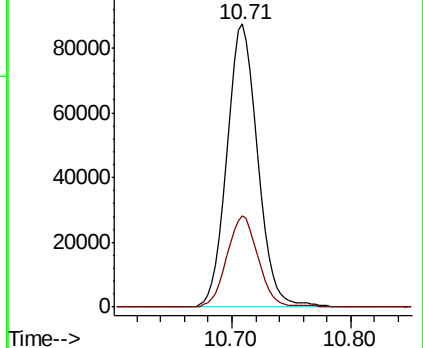
76 100

78 32.7 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 100.988 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054815.D

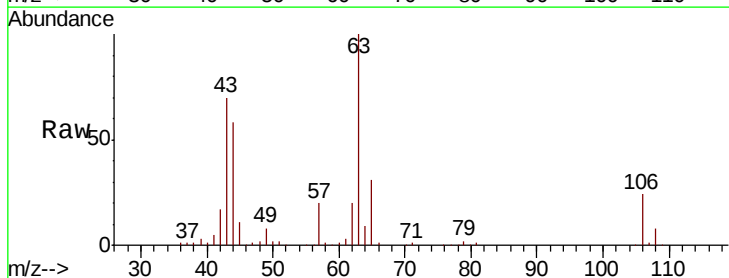
Acq: 30 Mar 2019 20:52

Tgt Ion: 63 Resp: 225892

Ion Ratio Lower Upper

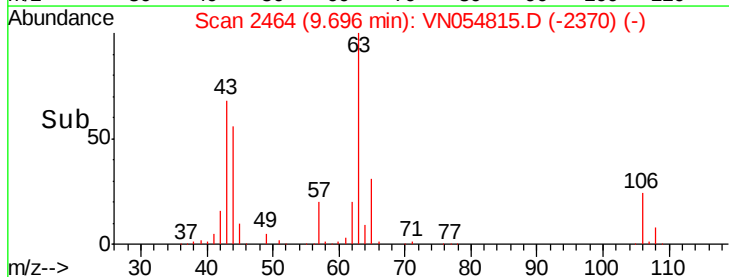
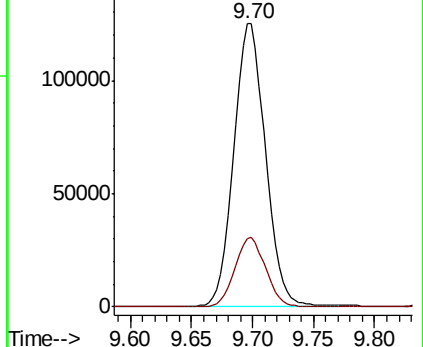
63 100

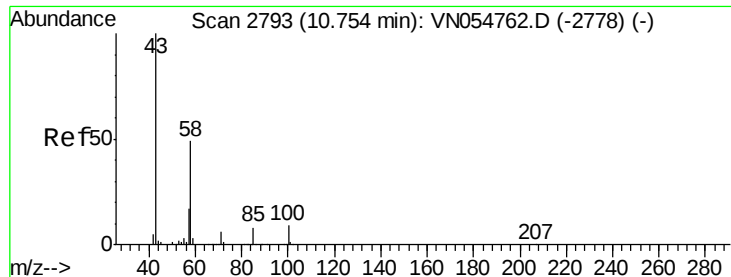
106 23.9 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

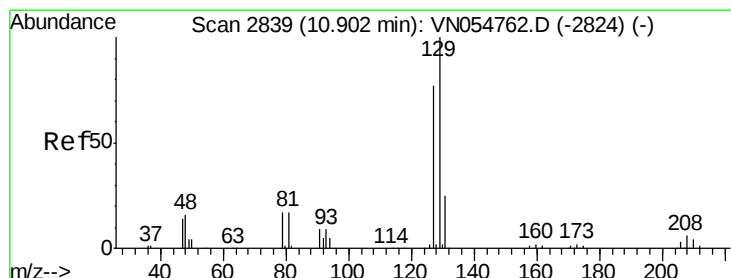
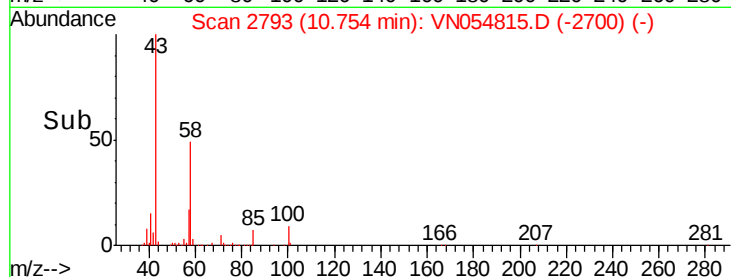
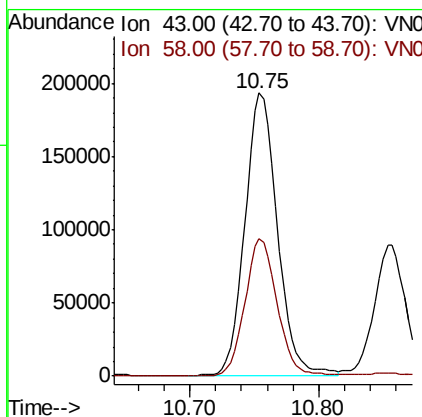
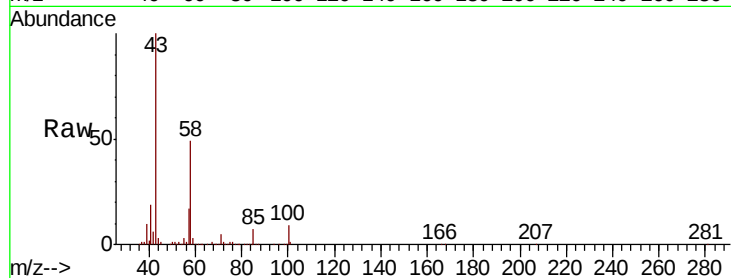




#59
2-Hexanone
Concen: 118.058 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

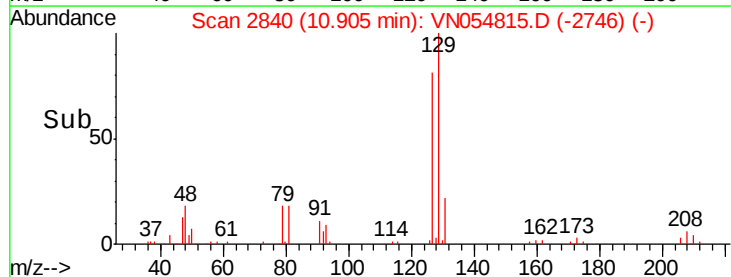
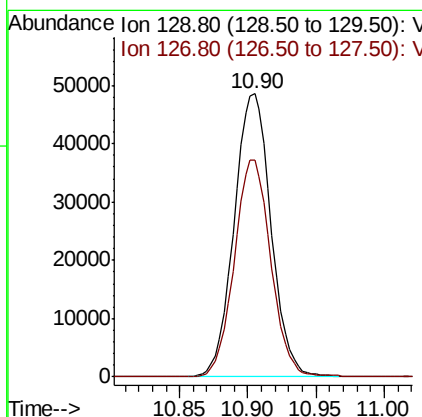
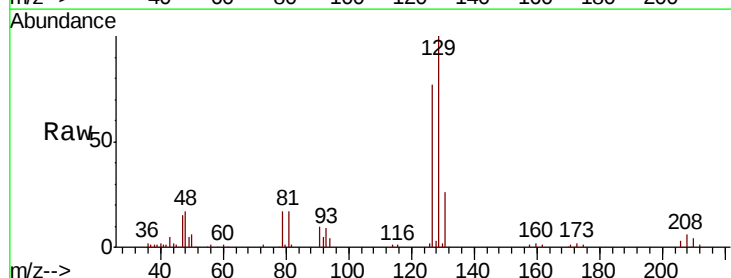
Instrument :
MSVOA_N
ClientSampled :

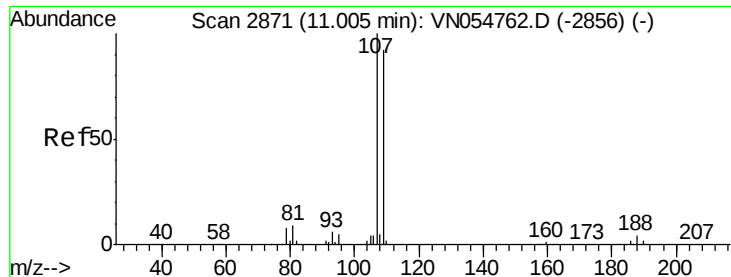
Tot Ion: 43 Resp: 338119
Ion Ratio Lower Upper
43 100
58 48.7 28.0 83.9



#60
Dibromochloromethane
Concen: 21.308 ug/l
RT: 10.90 min Scan# 2840
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion:129 Resp: 91259
Ion Ratio Lower Upper
129 100
127 75.7 38.6 115.8

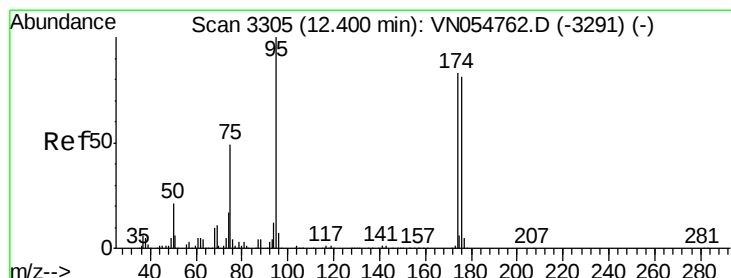
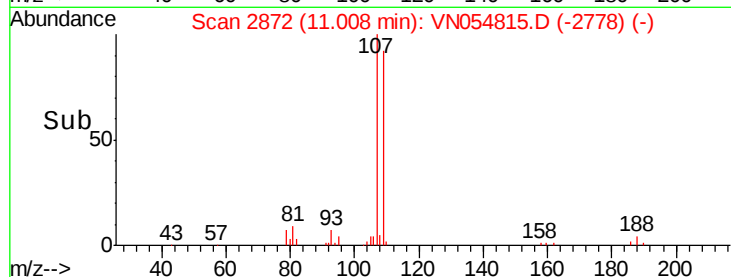
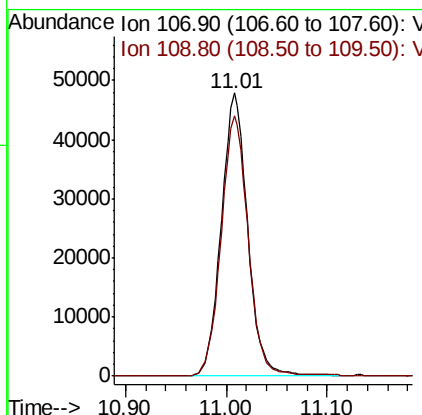
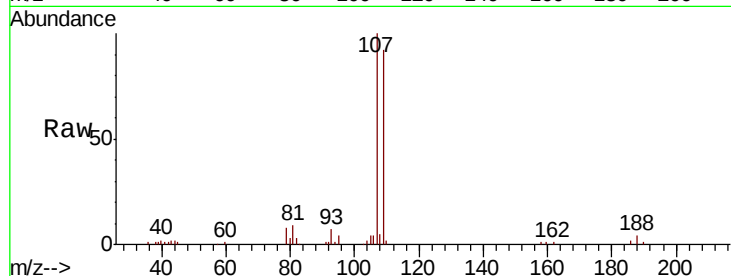




#61
 1,2-Dibromoethane
 Concen: 21.637 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

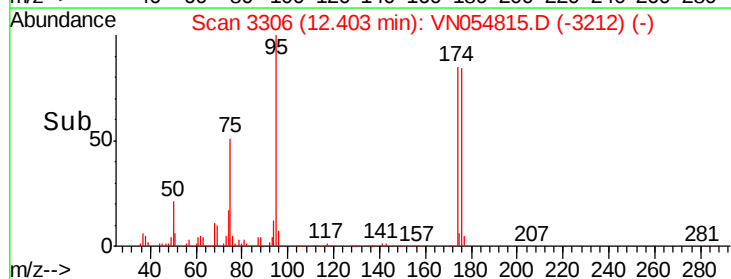
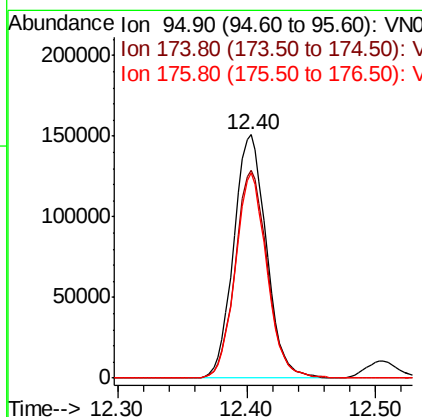
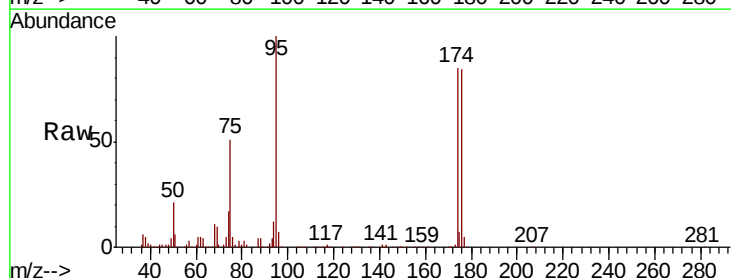
Instrument :
 MSVOA_N
 ClientSampled :

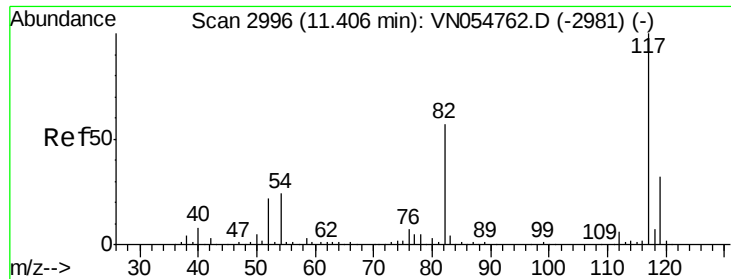
Tot Ion: 107 Resp: 87425
 Ion Ratio Lower Upper
 107 100
 109 94.4 75.9 113.9



#62
 4-Bromofluorobenzene
 Concen: 45.067 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion: 95 Resp: 266253
 Ion Ratio Lower Upper
 95 100
 174 83.8 0.0 191.0
 176 81.3 0.0 187.4

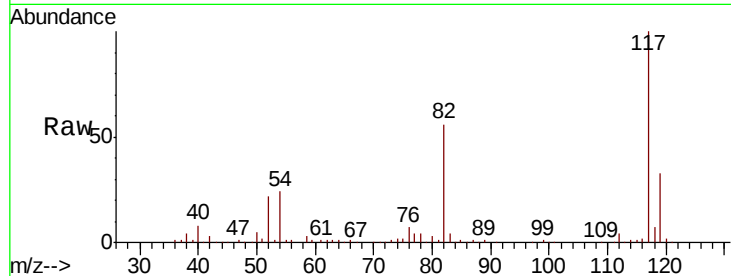




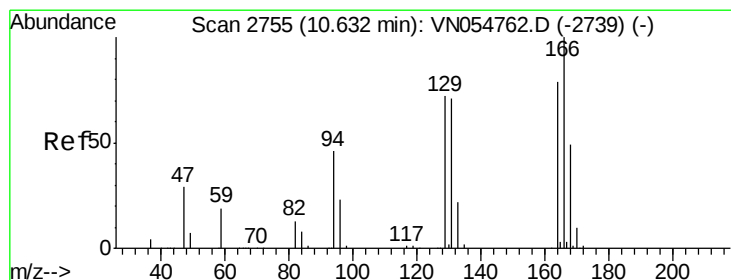
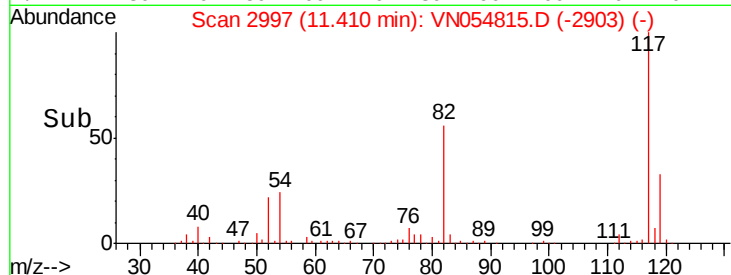
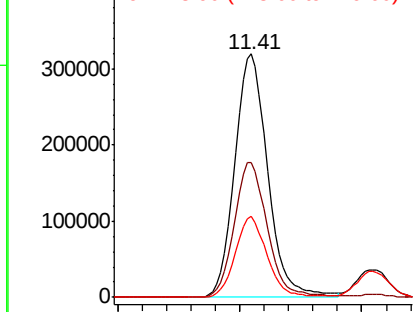
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 597341
Ion Ratio Lower Upper
117 100
82 55.6 40.0 60.0
119 33.0 25.8 38.6

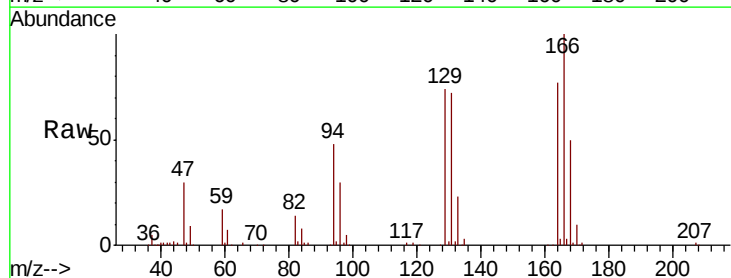


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

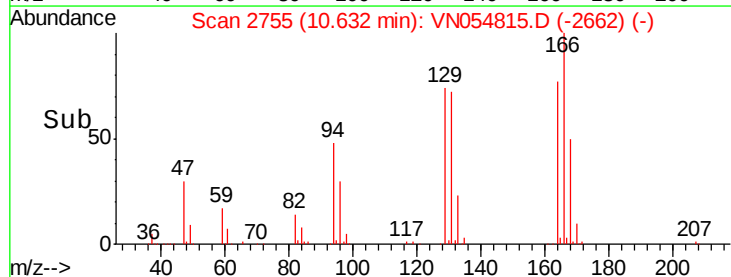
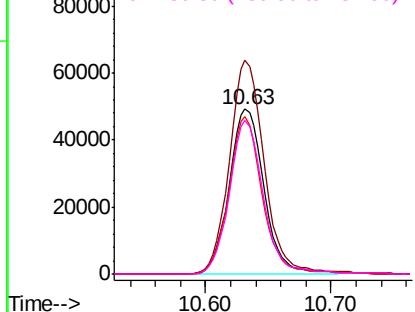


#64
Tetrachloroethene
Concen: 20.801 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion:164 Resp: 95347
Ion Ratio Lower Upper
164 100
166 129.4 103.9 155.9
129 95.4 71.1 106.7
131 92.8 68.2 102.4



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: 20.229 ug/l

RT: 11.44 min Scan# 3005

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

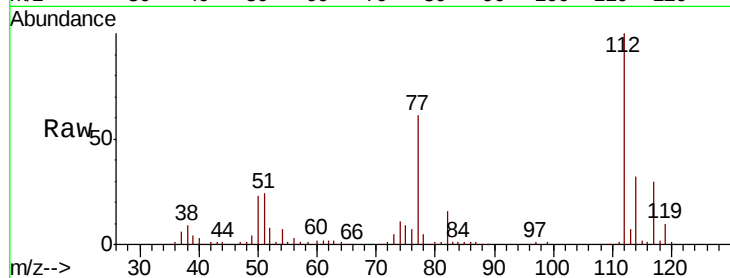
ClientSampled :

Tot Ion:112 Resp: 236586

Ion Ratio Lower Upper

112 100

114 32.3 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

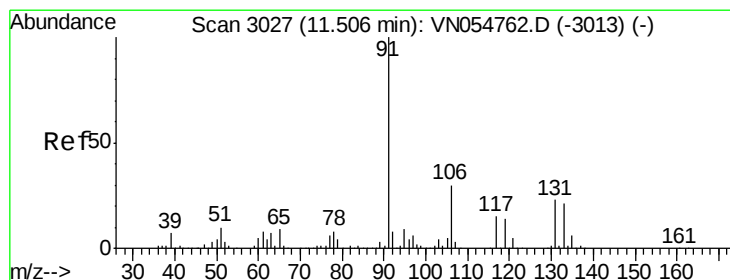
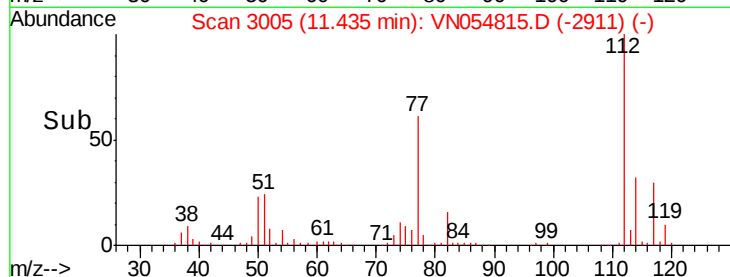
150000

100000

50000

0

Time--> 11.30 11.40 11.50 11.60



#66

1,1,1,2-Tetrachloroethane

Concen: 21.326 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

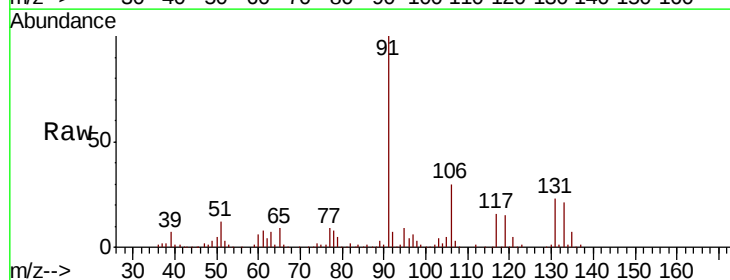
Tgt Ion:131 Resp: 93353

Ion Ratio Lower Upper

131 100

133 93.0 47.6 142.9

119 67.5 32.4 97.0



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

80000

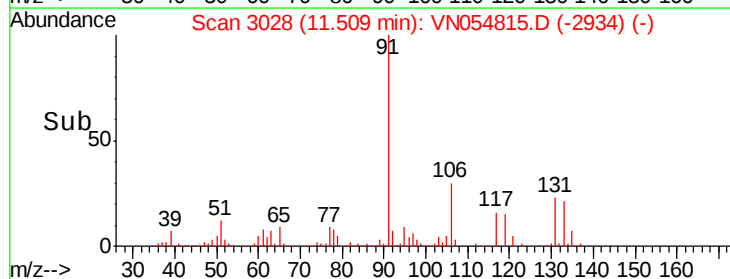
60000

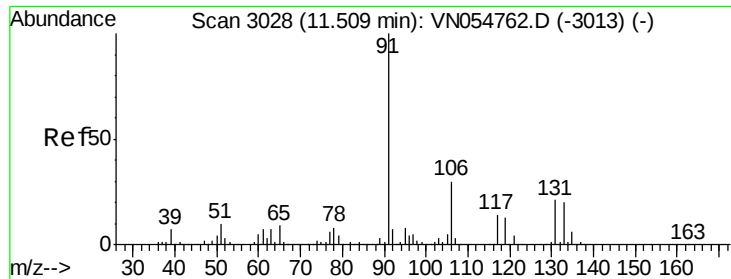
40000

20000

0

Time--> 11.45 11.50 11.55

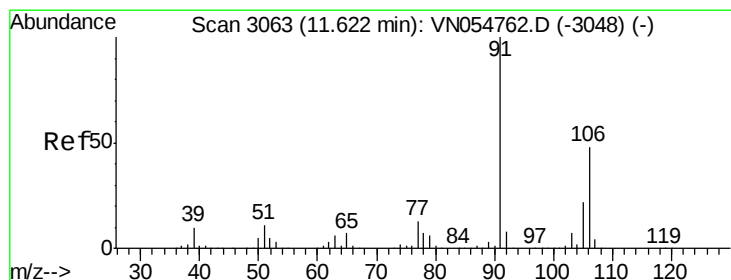
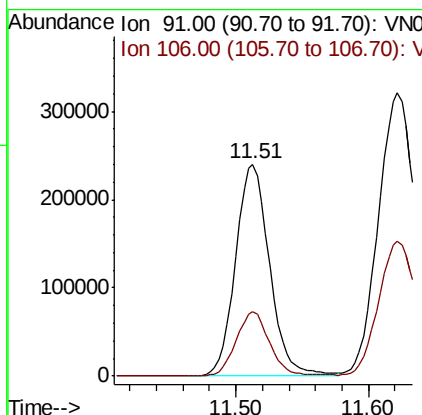
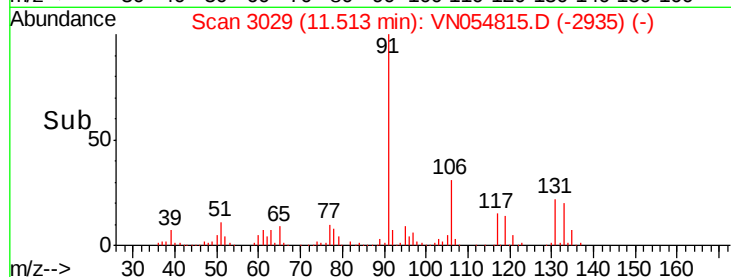
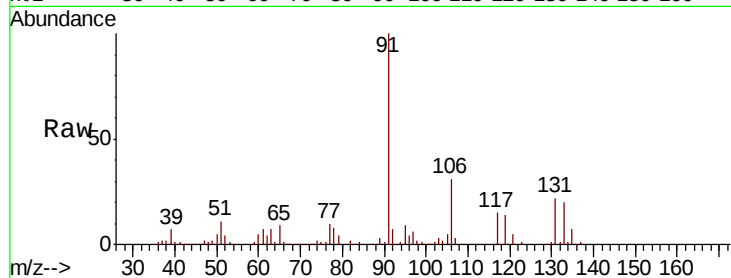




#67
Ethyl Benzene
Concen: 20.311 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

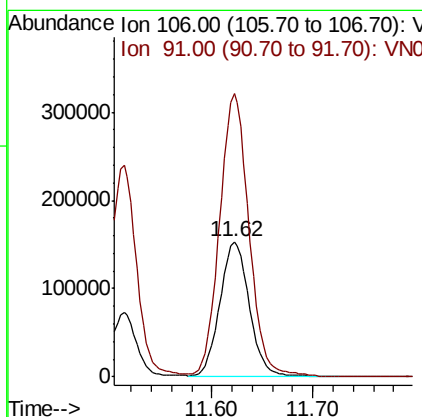
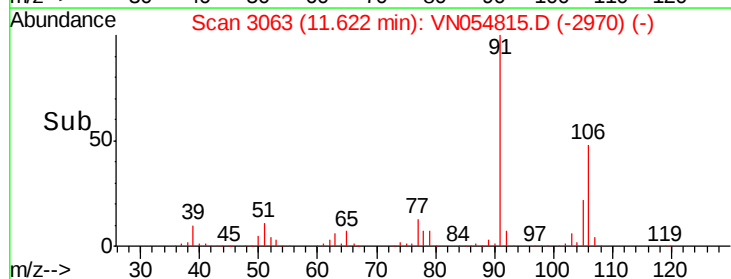
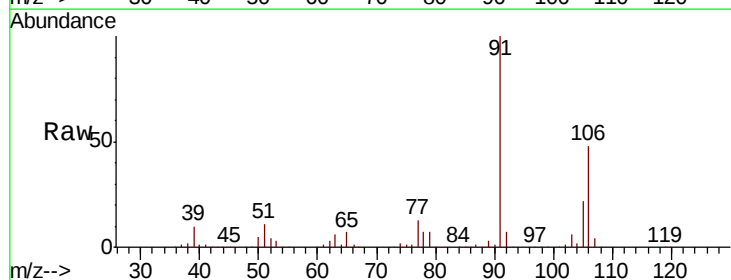
Instrument :
MSVOA_N
ClientSampled :

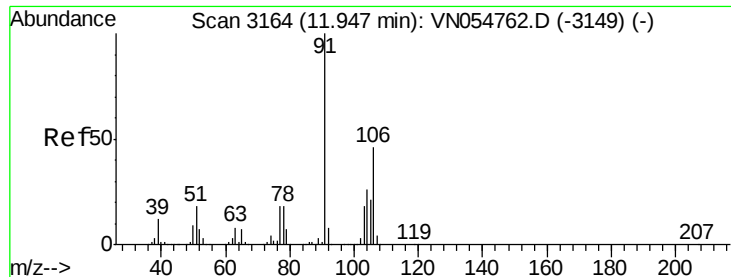
Tot Ion: 91 Resp: 428667
Ion Ratio Lower Upper
91 100
106 30.5 25.5 38.3



#68
m/p-Xylenes
Concen: 40.340 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 106 Resp: 315056
Ion Ratio Lower Upper
106 100
91 208.2 159.4 239.2

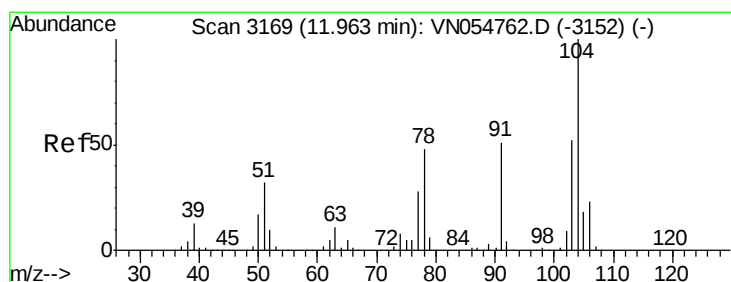
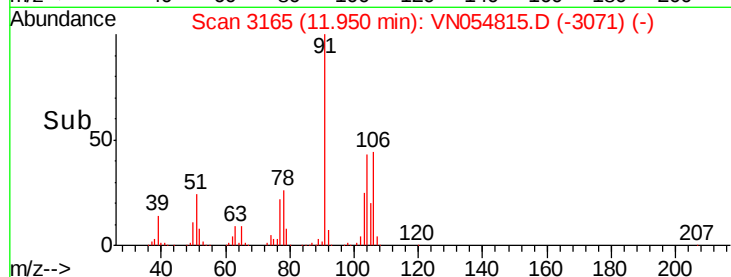
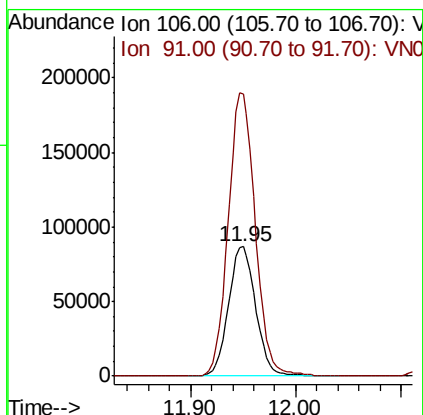
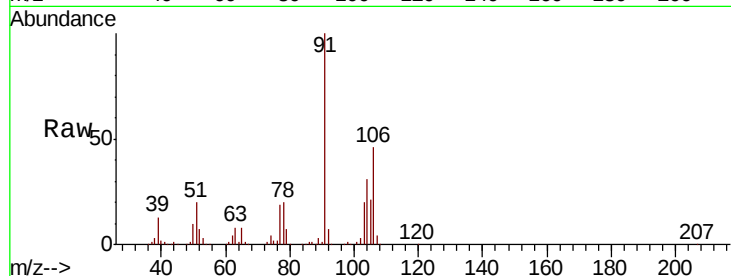




#69
o-Xylene
Concen: 20.255 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

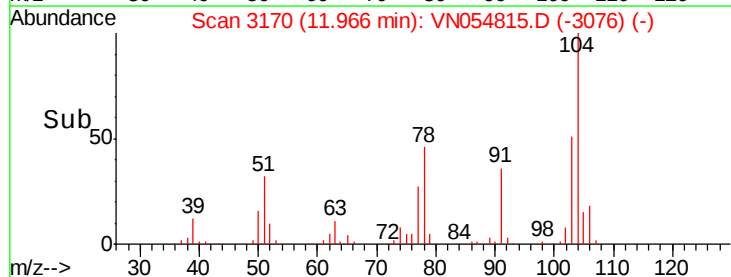
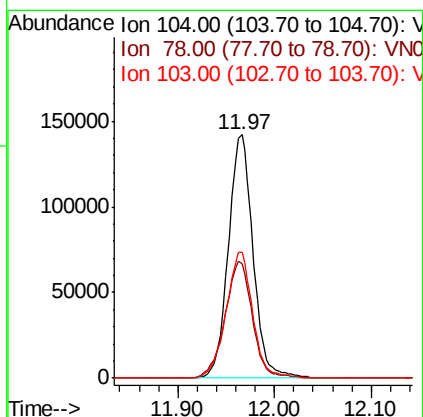
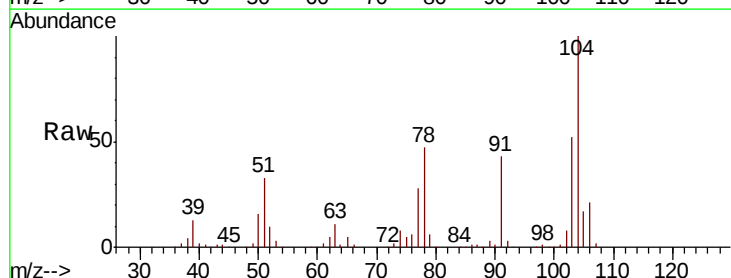
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 155121
Ion Ratio Lower Upper
106 100
91 217.0 105.7 317.1



#70
Styrene
Concen: 20.597 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion:104 Resp: 252223
Ion Ratio Lower Upper
104 100
78 53.1 38.2 57.2
103 55.8 44.4 66.6

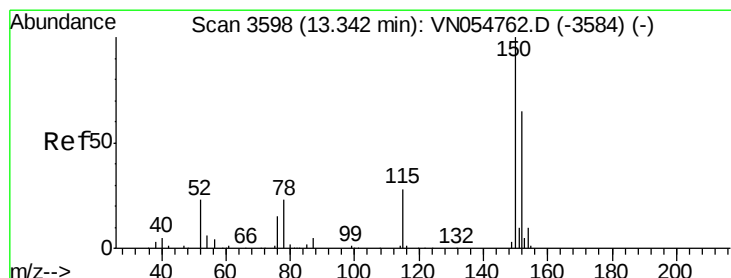
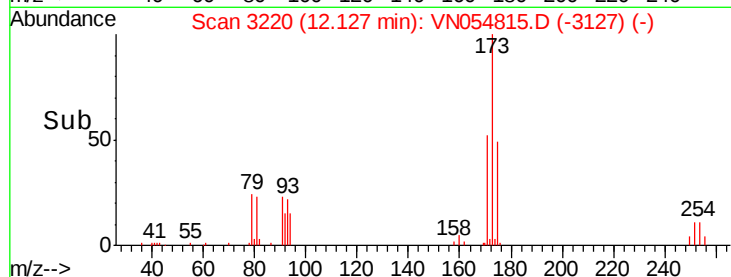
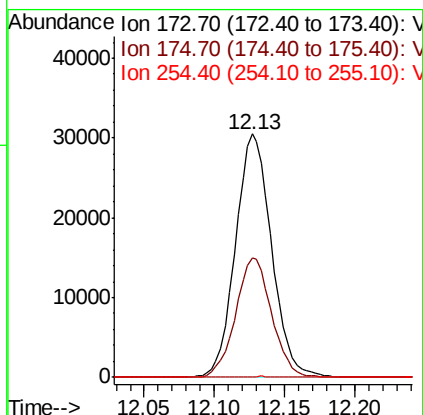
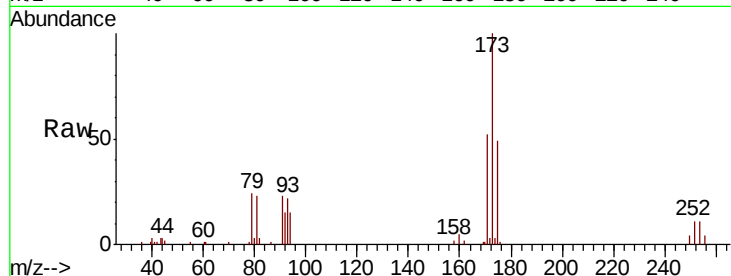




#71
Bromoform
Concen: 21.308 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

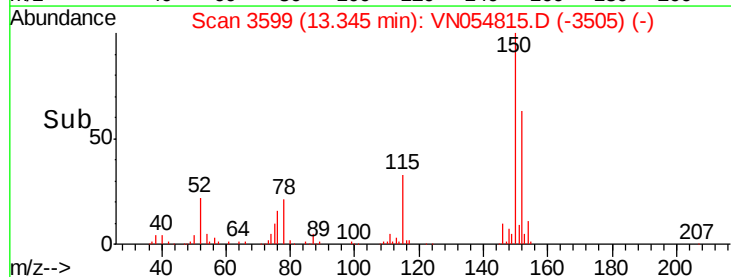
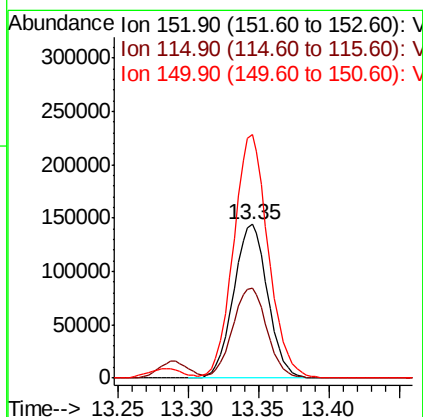
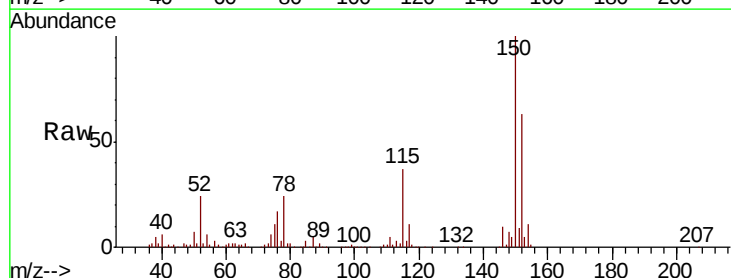
Instrument :
MSVOA_N
ClientSampleId :

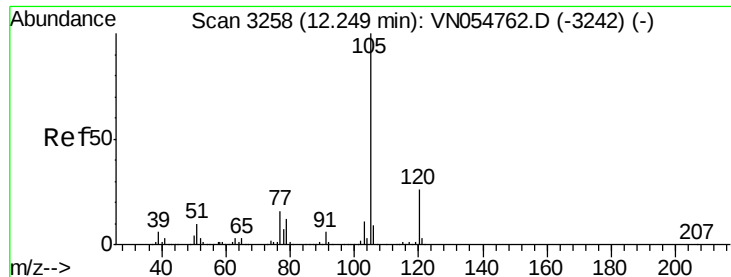
Tot Ion:173 Resp: 54645
Ion Ratio Lower Upper
173 100
175 48.8 24.4 73.2
254 0.1 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion:152 Resp: 244096
Ion Ratio Lower Upper
152 100
115 59.0 27.2 81.6
150 161.0 0.0 349.2





#73

Isopropylbenzene

Concen: 20.343 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

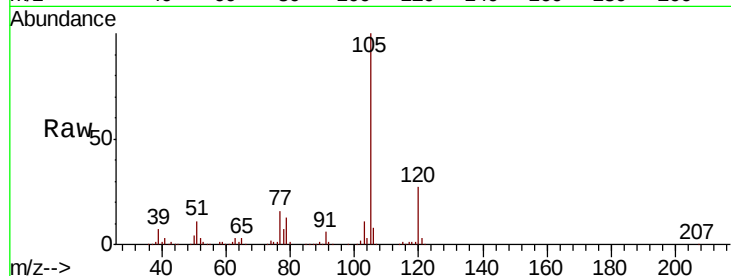
ClientSampled :

Tot Ion:105 Resp: 405874

Ion Ratio Lower Upper

105 100

120 26.7 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

250000

200000

150000

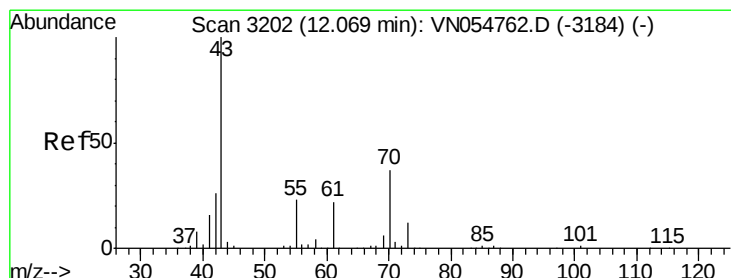
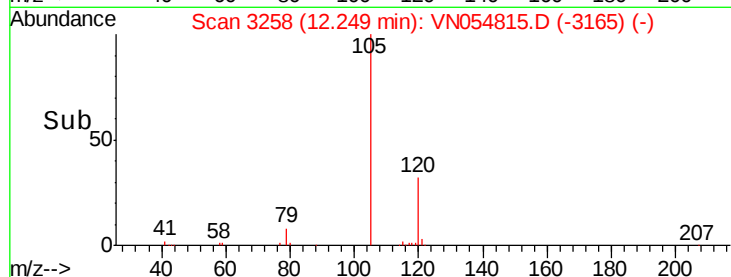
100000

50000

0

Time-->

12.20 12.30



#74

N-ethyl acetate

Concen: 22.595 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Tgt Ion: 43 Resp: 140446

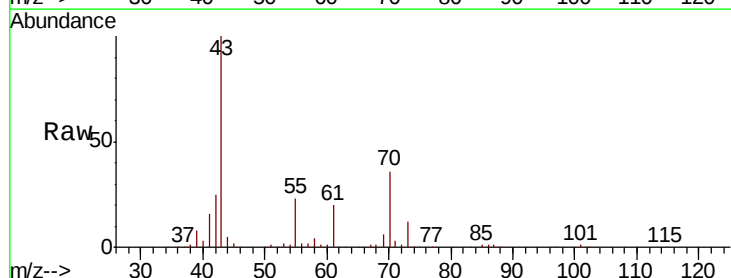
Ion Ratio Lower Upper

43 100

70 36.6 35.4 53.0

55 23.5 19.8 29.6

61 21.5 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

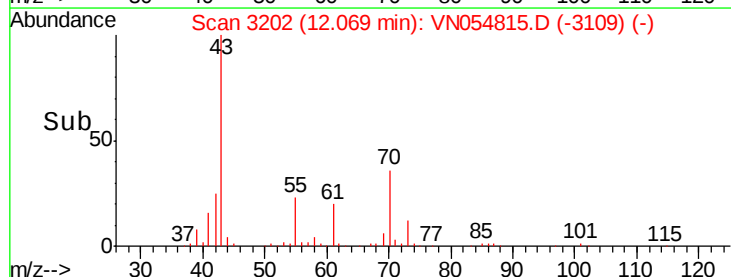
100000

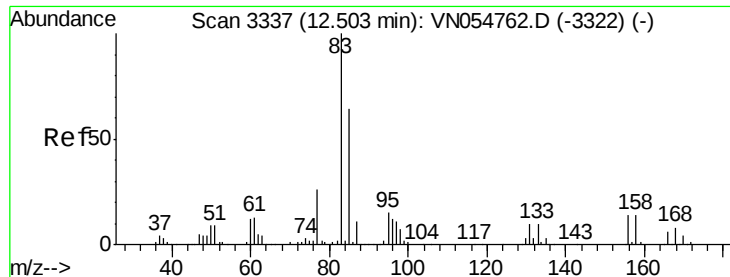
50000

0

Time-->

12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 24.642 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

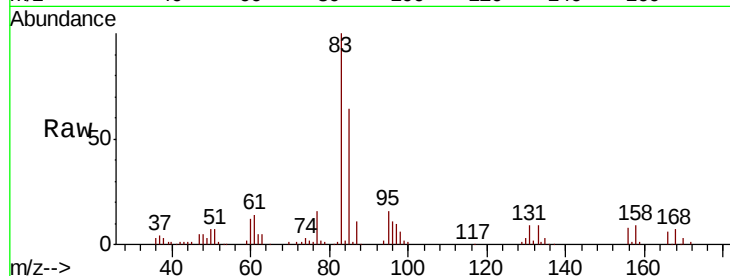
Tot Ion: 83 Resp: 112199

Ion Ratio Lower Upper

83 100

131 9.7 5.8 17.4

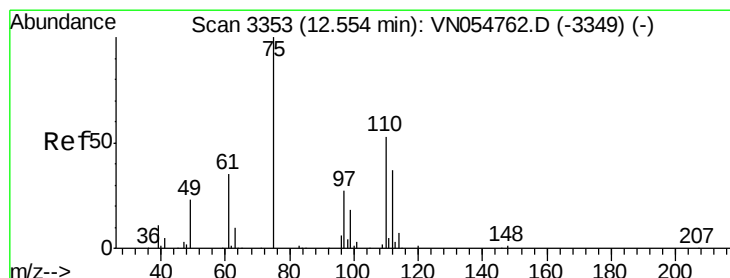
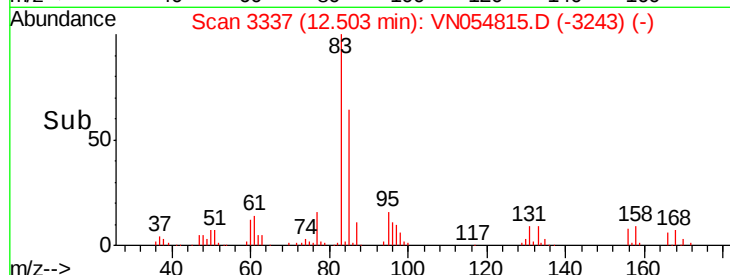
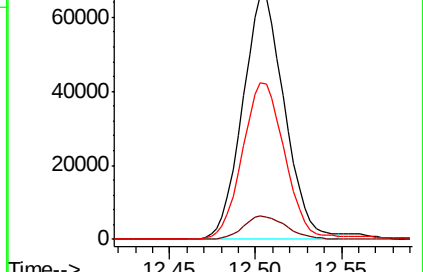
85 65.5 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN054762.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN054762.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN054762.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 29.884 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054815.D

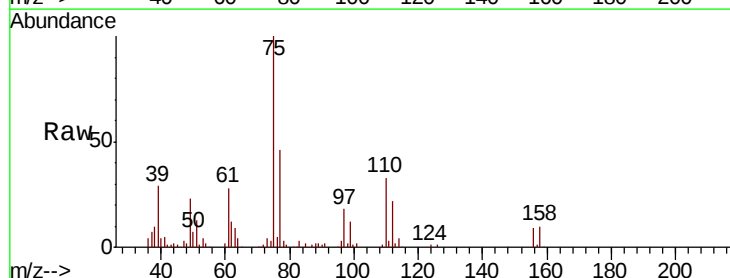
Acq: 30 Mar 2019 20:52

Tgt Ion: 75 Resp: 126723

Ion Ratio Lower Upper

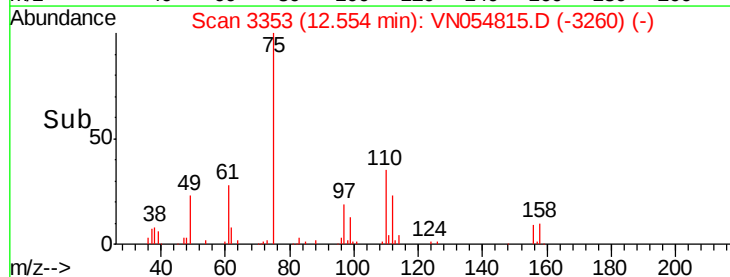
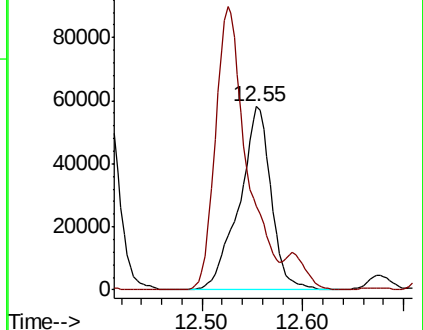
75 100

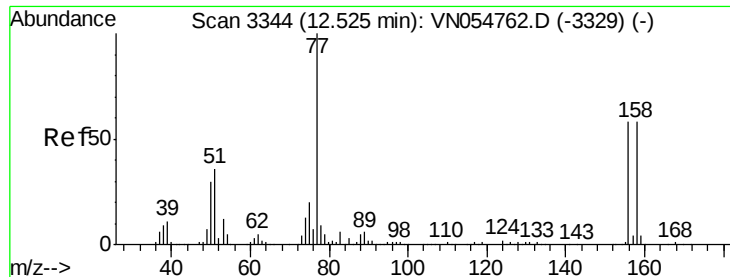
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054762.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN054762.D (-3349) (-)





#77

Bromobenzene

Concen: 20.077 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

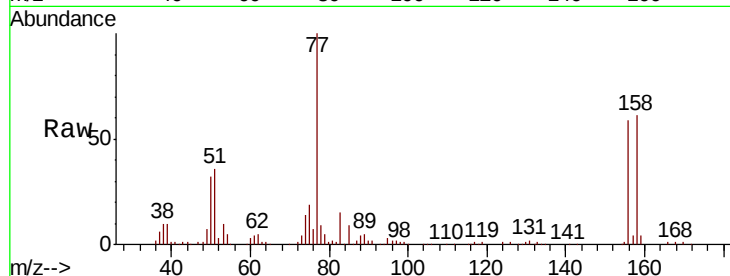
Tot Ion:156 Resp: 96675

Ion Ratio Lower Upper

156 100

77 199.9 81.5 244.4

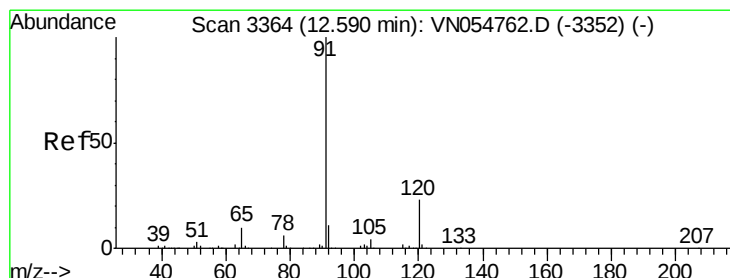
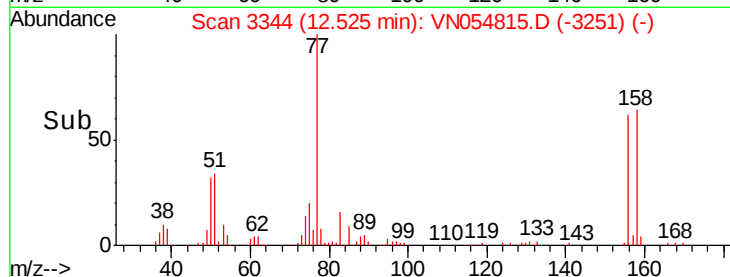
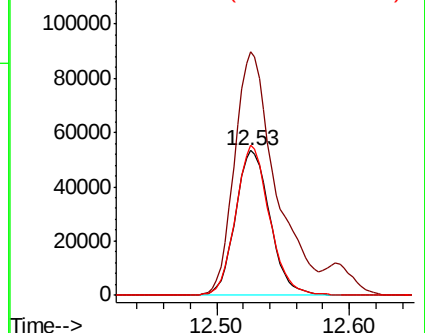
158 101.2 49.0 147.2



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: 20.077 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054815.D

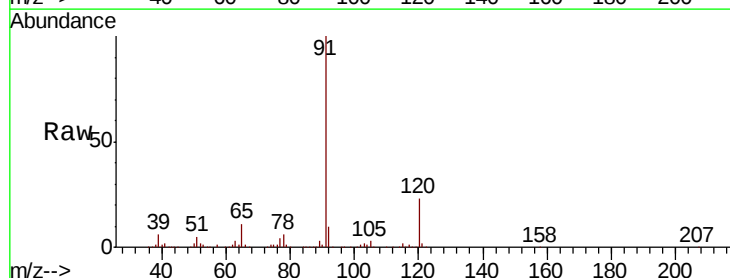
Acq: 30 Mar 2019 20:52

Tgt Ion: 91 Resp: 440266

Ion Ratio Lower Upper

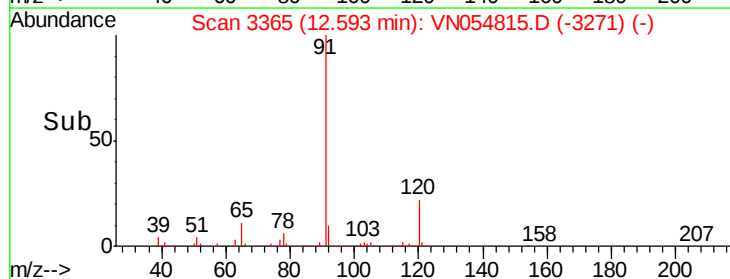
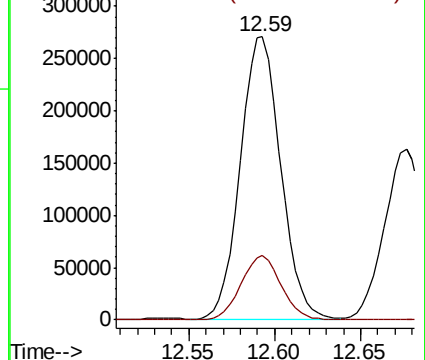
91 100

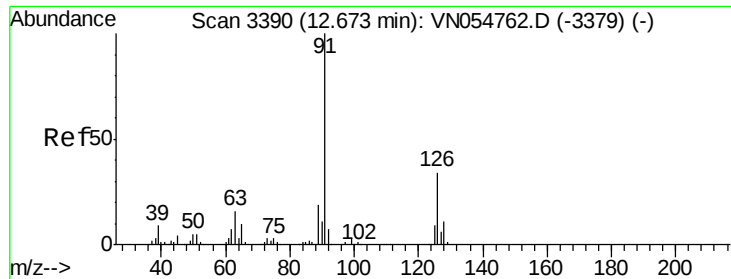
120 22.8 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.039 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

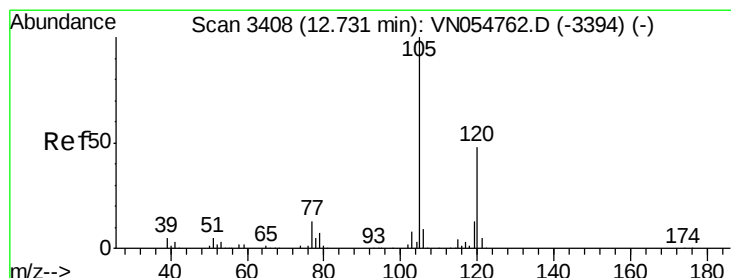
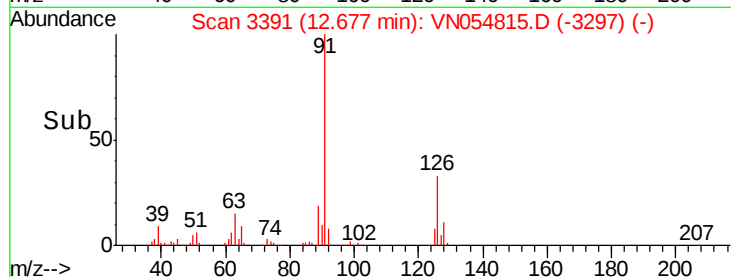
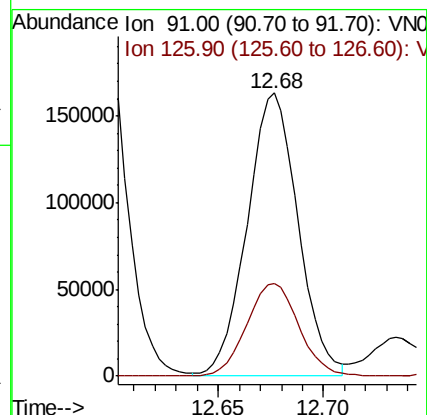
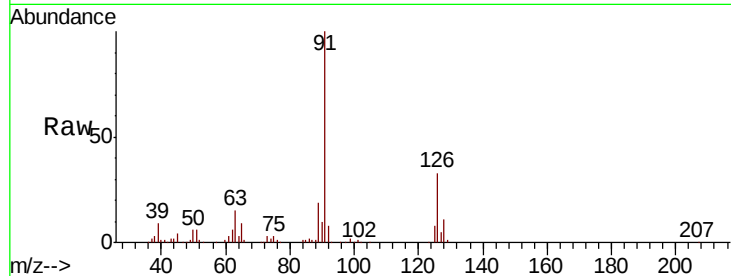
ClientSampleId :

Tot Ion: 91 Resp: 271859

Ion Ratio Lower Upper

91 100

126 34.0 18.7 56.1



#80

1,3,5-Trimethylbenzene

Concen: 20.206 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054815.D

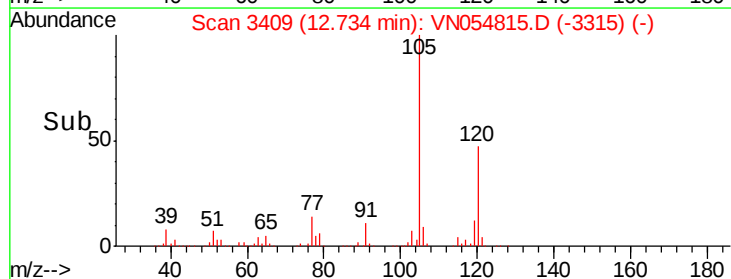
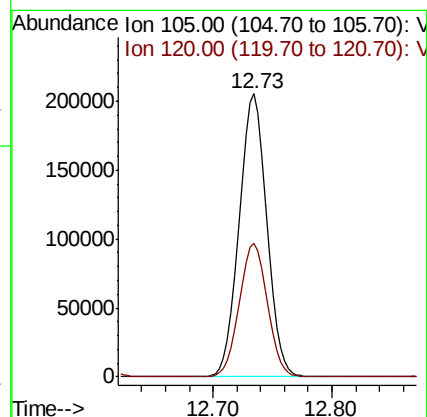
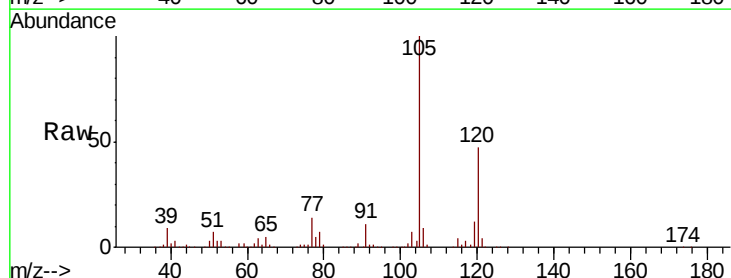
Acq: 30 Mar 2019 20:52

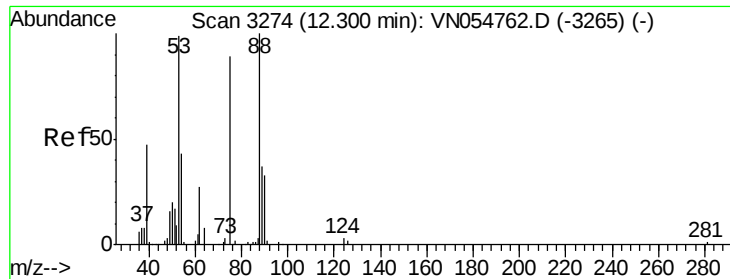
Tgt Ion: 105 Resp: 330789

Ion Ratio Lower Upper

105 100

120 48.0 25.0 75.0

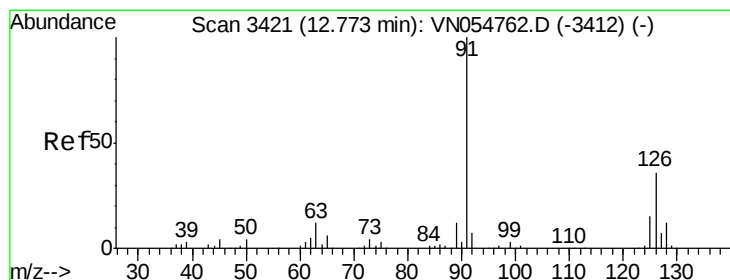
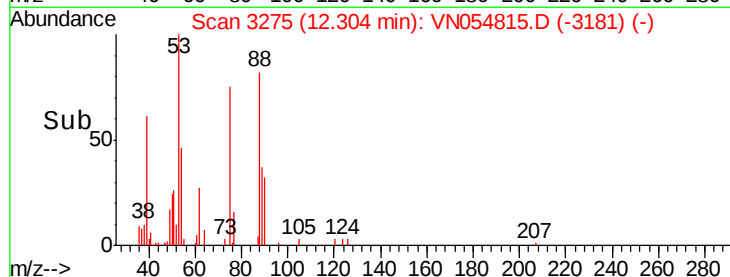
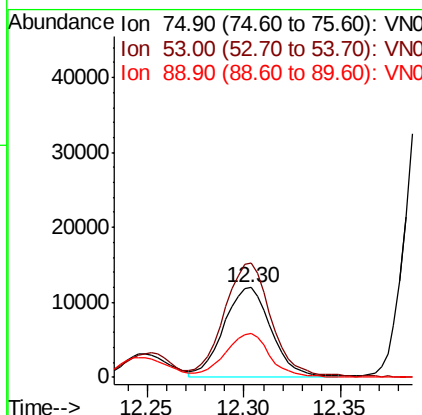
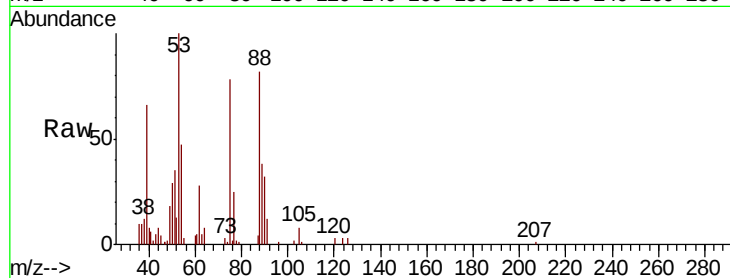




#81
trans-1,4-Dichloro-2-butene
Concen: 18.832 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

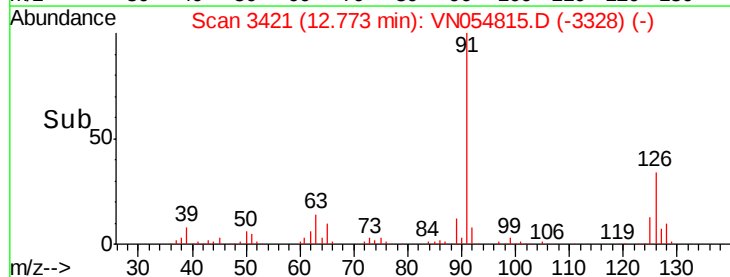
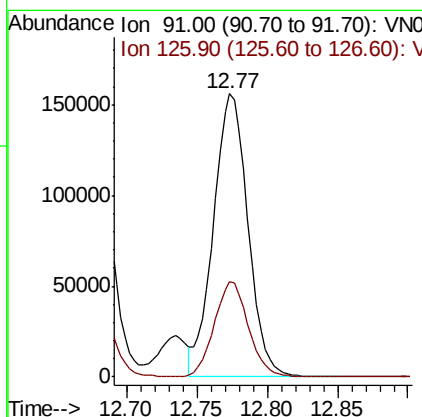
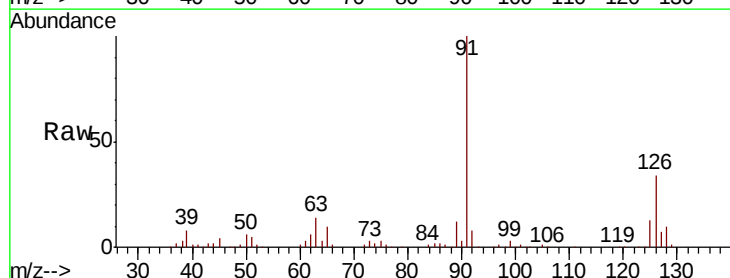
Instrument :
MSVOA_N
ClientSampleId :

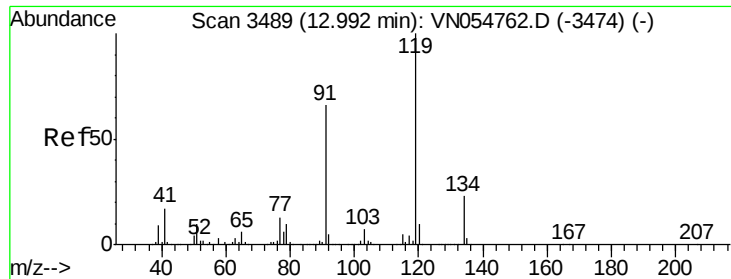
Tot Ion: 75 Resp: 20530
Ion Ratio Lower Upper
75 100
53 126.6 76.2 114.2#
89 45.7 39.2 58.8



#82
4-Chlorotoluene
Concen: 20.083 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054815.D
Acq: 30 Mar 2019 20:52

Tgt Ion: 91 Resp: 264642
Ion Ratio Lower Upper
91 100
126 33.5 18.1 54.1

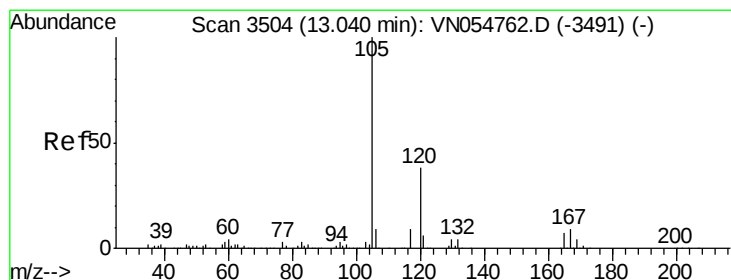
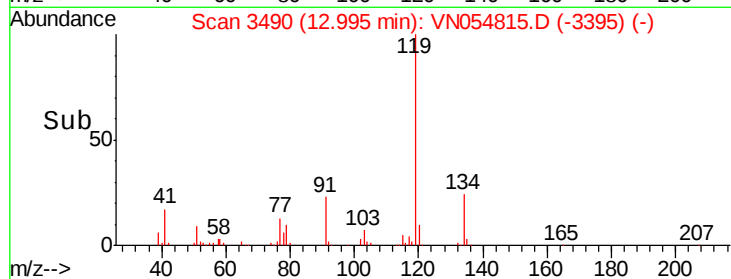
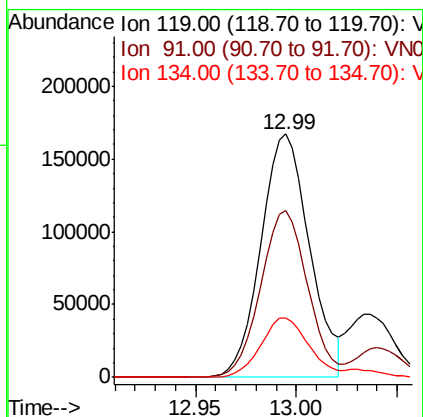
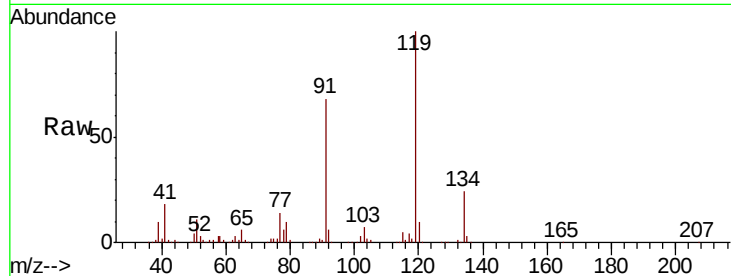




#83
 tert-Butylbenzene
 Concen: 20.894 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

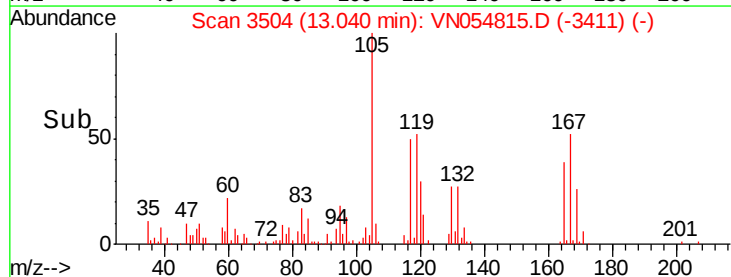
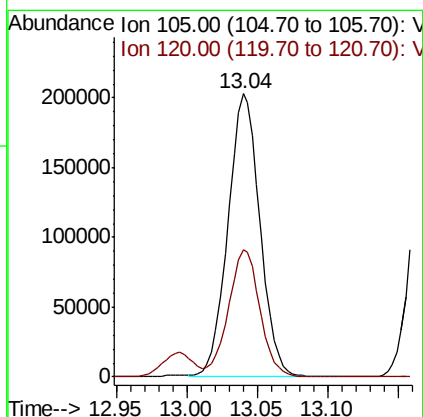
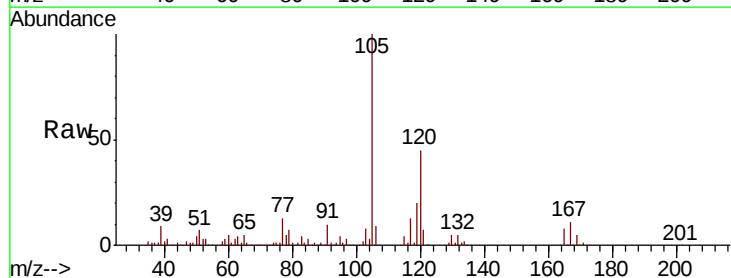
Instrument :
 MSVOA_N
 ClientSampled :

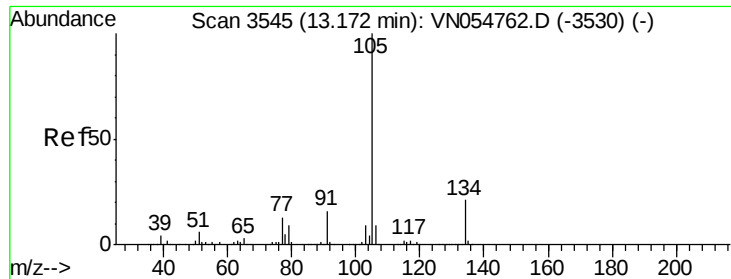
Tot Ion:119 Resp: 280440
 Ion Ratio Lower Upper
 119 100
 91 66.7 30.9 92.8
 134 24.3 13.2 39.6



#84
 1,2,4-Trimethylbenzene
 Concen: 20.594 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion:105 Resp: 321200
 Ion Ratio Lower Upper
 105 100
 120 44.4 23.4 70.3





#85

sec-Butylbenzene

Concen: 19.882 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

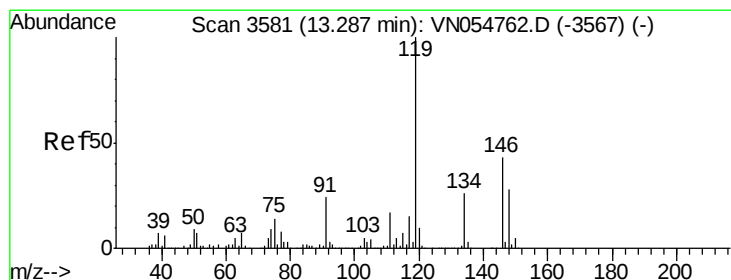
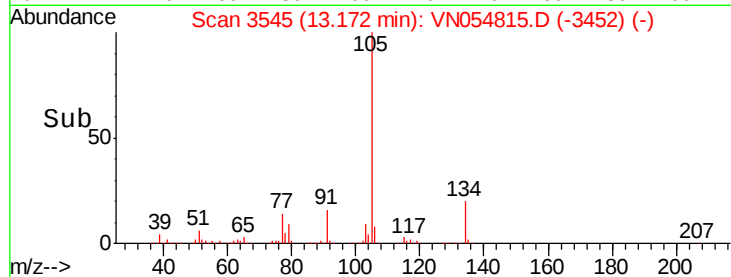
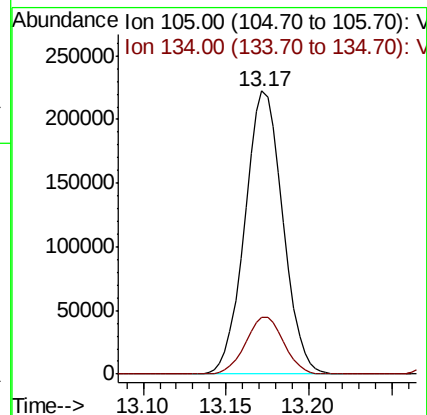
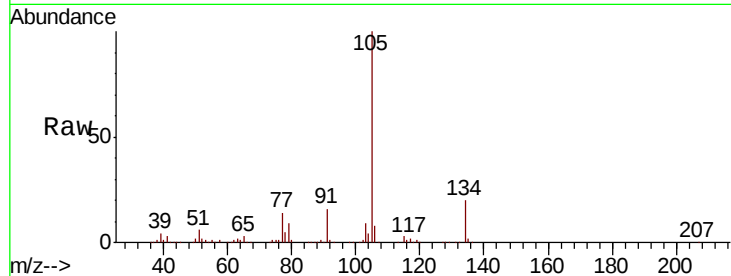
ClientSampled :

Tot Ion:105 Resp: 353581

Ion Ratio Lower Upper

105 100

134 20.4 10.7 32.1



#86

p-Isopropyltoluene

Concen: 19.272 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

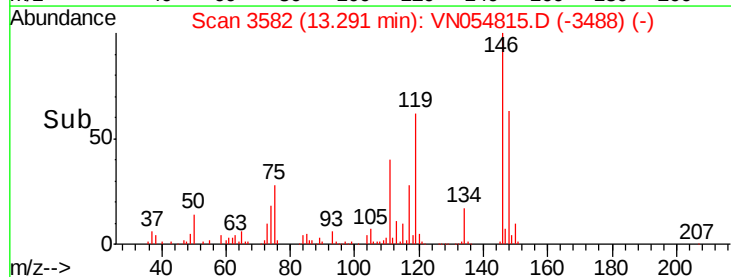
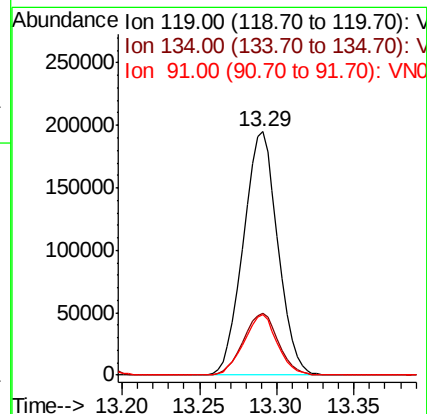
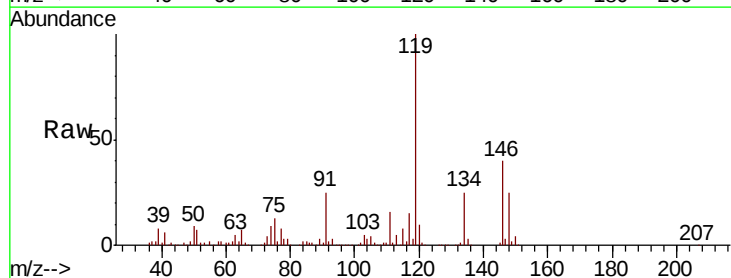
Tgt Ion:119 Resp: 302282

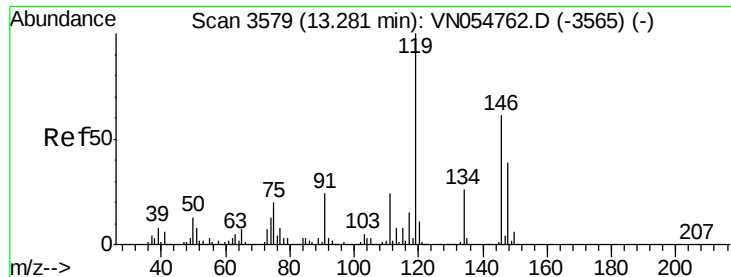
Ion Ratio Lower Upper

119 100

134 25.9 13.6 40.8

91 24.3 11.1 33.3

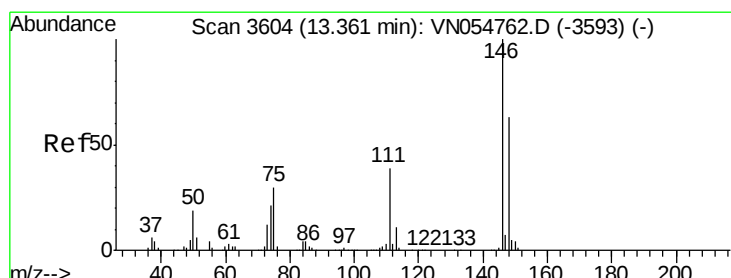
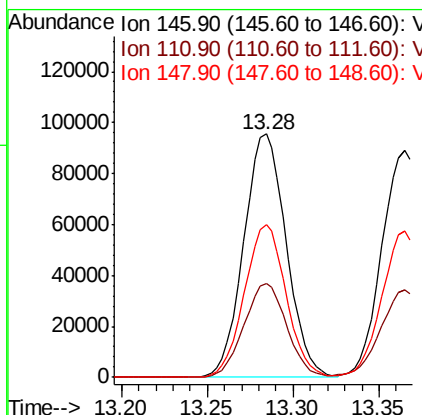
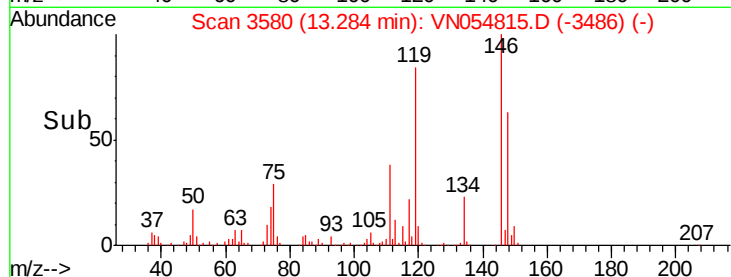
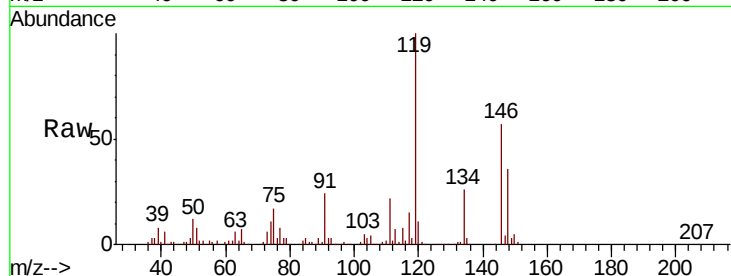




#87
 1,3-Dichlorobenzene
 Concen: 20.295 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

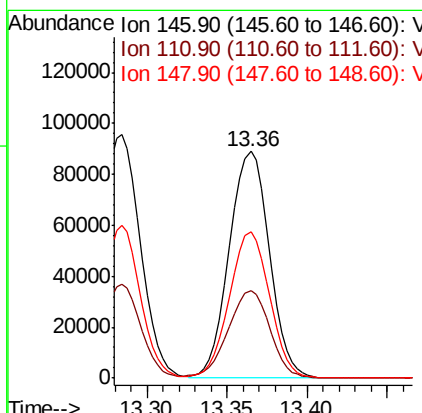
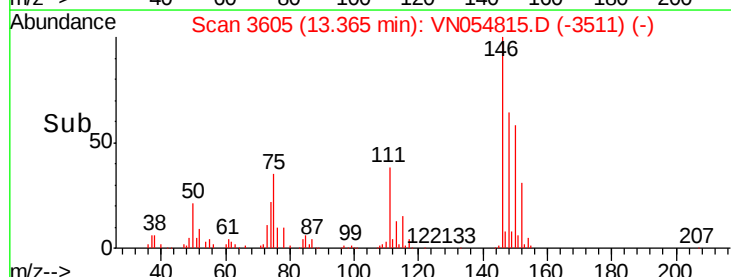
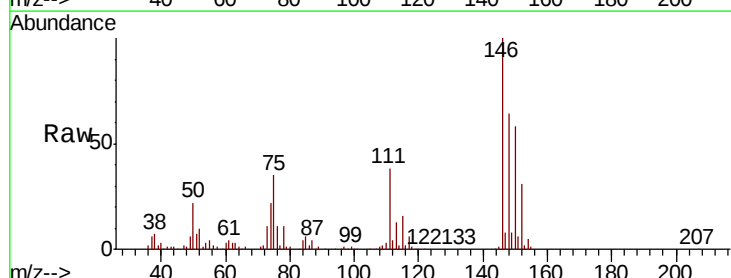
Instrument :
 MSVOA_N
 ClientSampled :

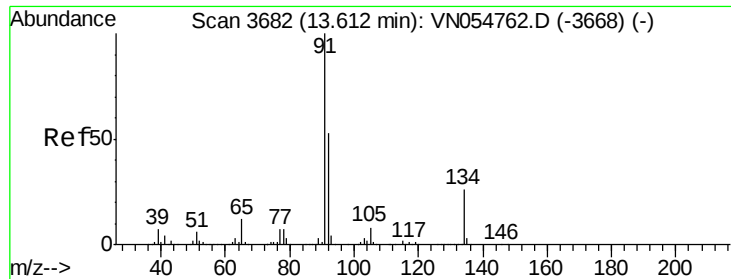
Tot Ion:146 Resp: 163616
 Ion Ratio Lower Upper
 146 100
 111 38.6 18.8 56.3
 148 61.4 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 19.304 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion:146 Resp: 152635
 Ion Ratio Lower Upper
 146 100
 111 40.1 18.1 54.1
 148 64.5 32.0 96.0





#89

n-Butylbenzene

Concen: 17.938 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

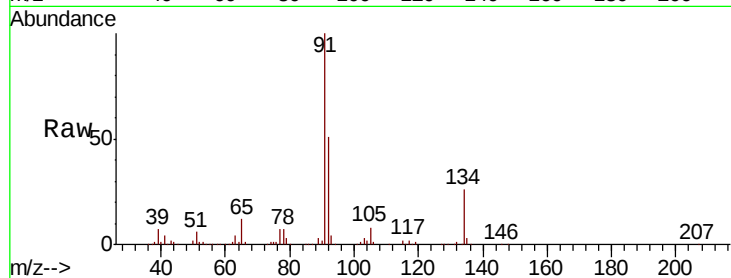
Tot Ion: 91 Resp: 229556

Ion Ratio Lower Upper

91 100

92 51.3 26.2 78.6

134 25.1 14.3 42.9



Abundance Ion 91.00 (90.70 to 91.70): VN054815.D (-3589) (-)

Ion 92.00 (91.70 to 92.70): VN054815.D (-3589) (-)

Ion 134.00 (133.70 to 134.70): VN054815.D (-3589) (-)

13.62

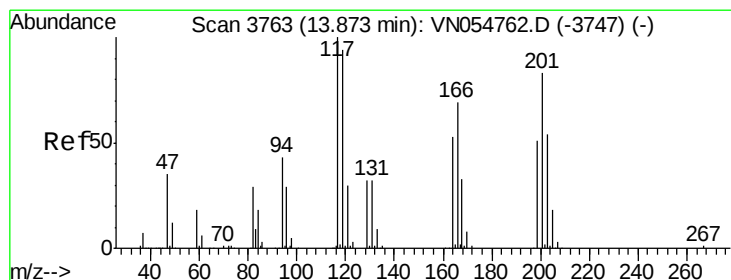
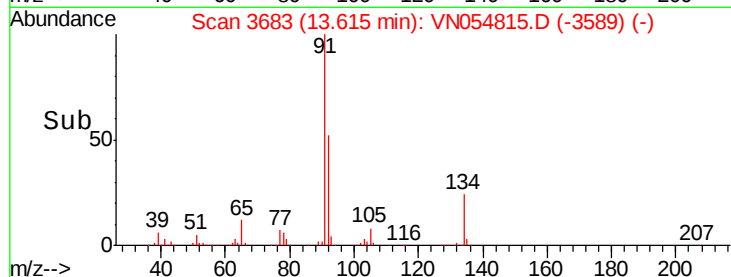
150000

100000

50000

0

Time-->



#90

Hexachloroethane

Concen: 19.153 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054815.D

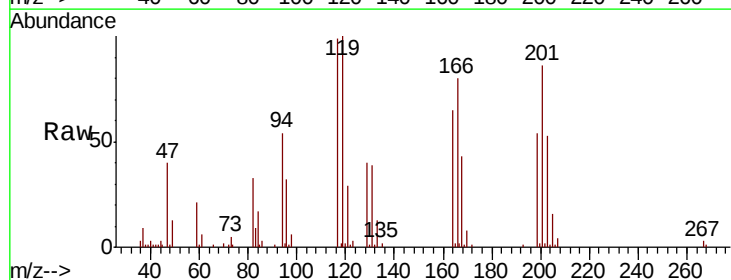
Acq: 30 Mar 2019 20:52

Tgt Ion: 117 Resp: 51005

Ion Ratio Lower Upper

117 100

201 84.7 48.1 144.4



Abundance Ion 116.80 (116.50 to 117.50): VN054815.D (-3670) (-)

Ion 200.70 (200.40 to 201.40): VN054815.D (-3670) (-)

13.88

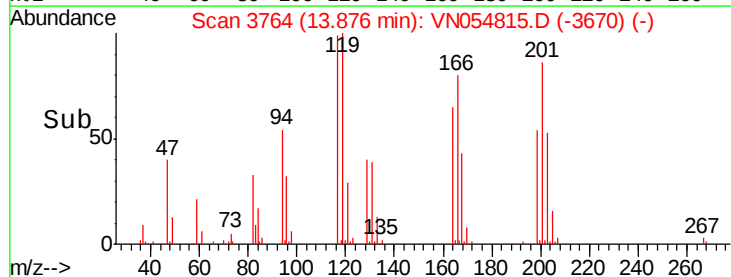
30000

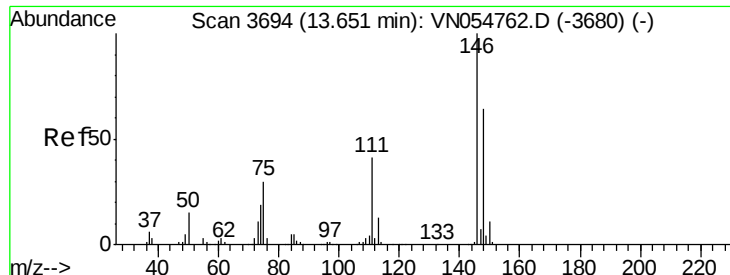
20000

10000

0

Time-->





#91

1,2-Dichlorobenzene

Concen: 20.231 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampleId :

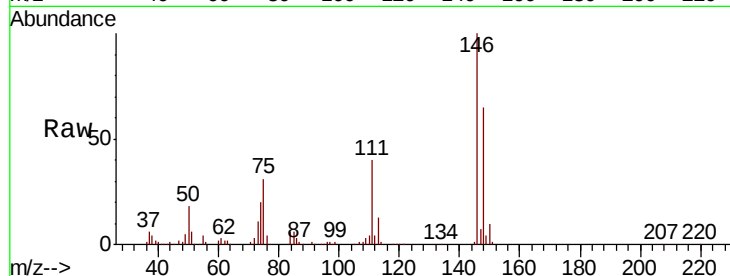
Tot Ion:146 Resp: 164600

Ion Ratio Lower Upper

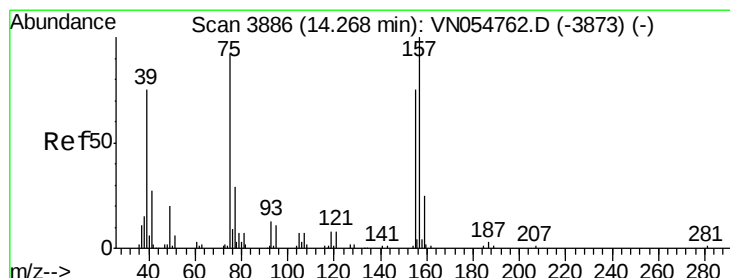
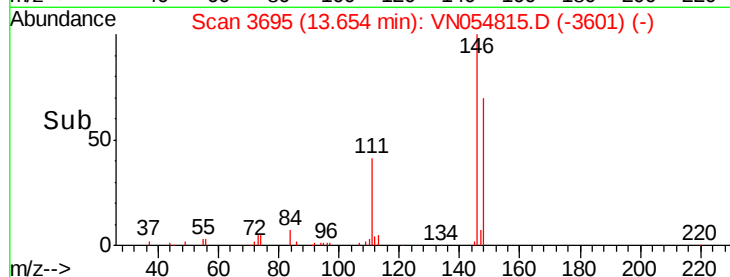
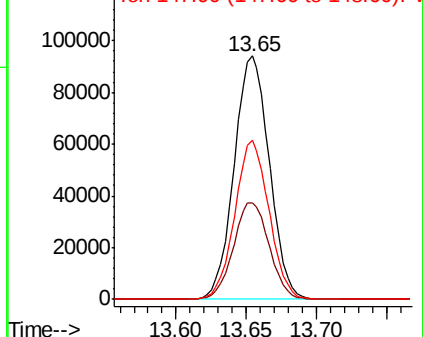
146 100

111 40.3 19.1 57.3

148 63.5 32.4 97.0



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: 26.189 ug/l

RT: 14.27 min Scan# 3887

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

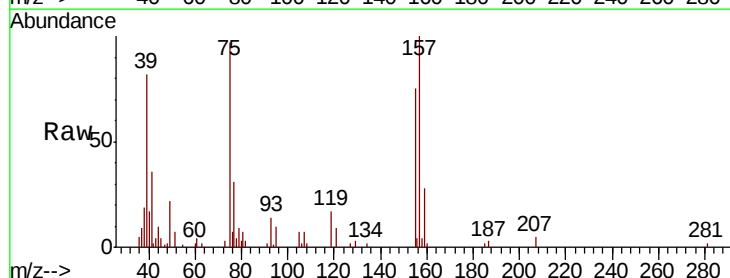
Tgt Ion: 75 Resp: 17862

Ion Ratio Lower Upper

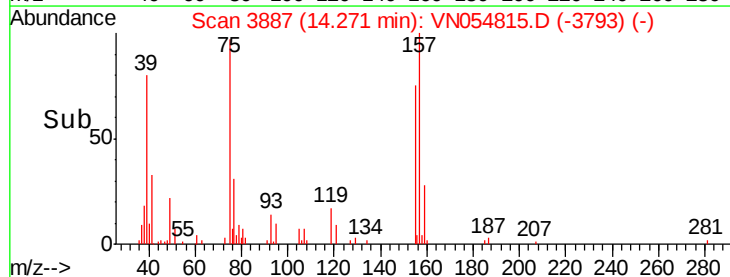
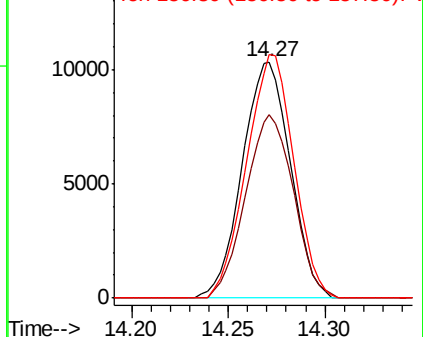
75 100

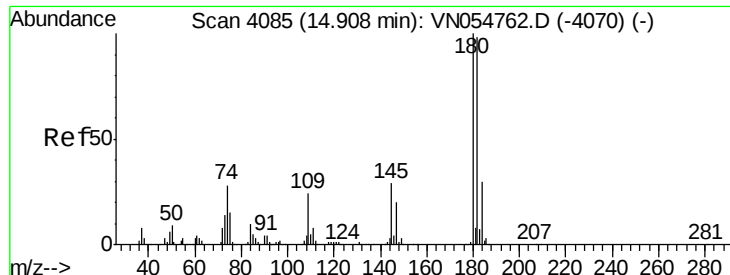
155 77.3 50.1 150.3

157 101.3 63.1 189.3



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

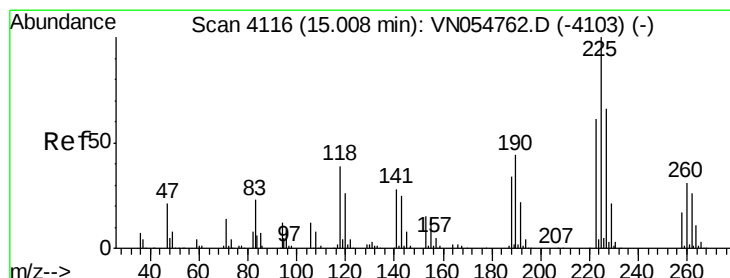
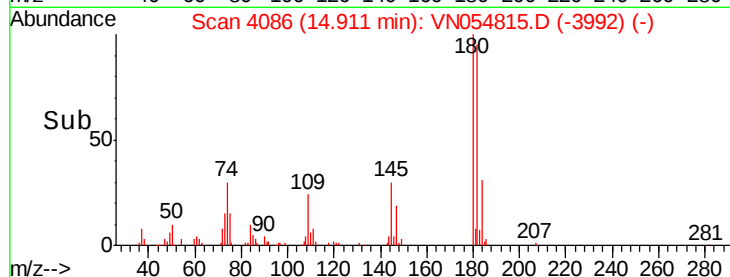
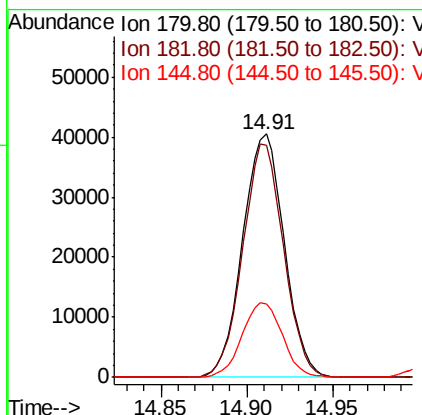
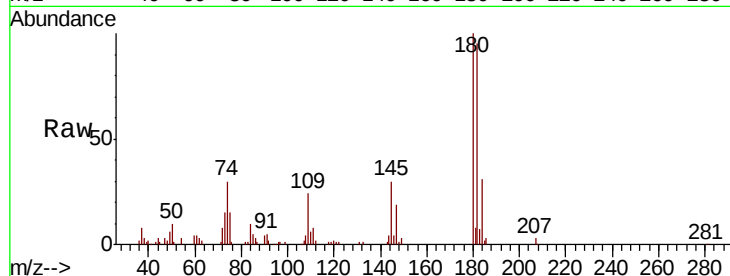




#93
 1,2,4-Trichlorobenzene
 Concen: 17.372 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

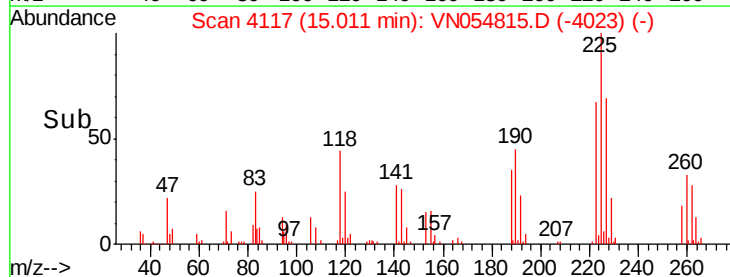
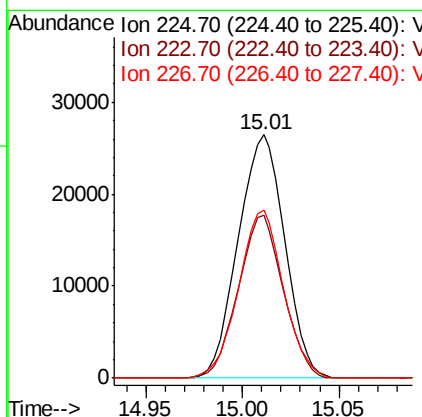
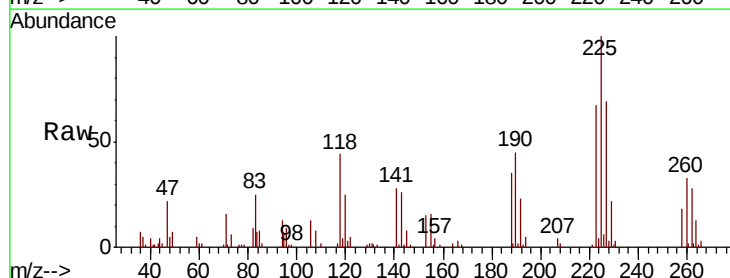
Instrument :
 MSVOA_N
 ClientSampled :

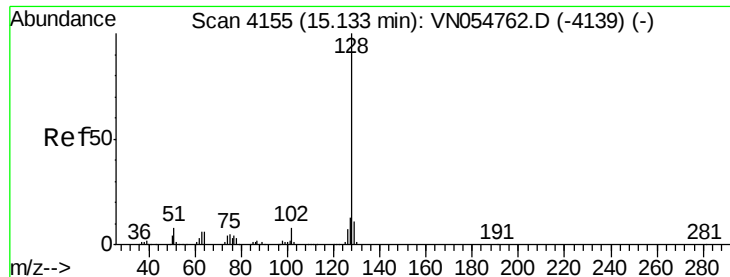
Tot Ion:180 Resp: 68140
 Ion Ratio Lower Upper
 180 100
 182 94.2 48.0 144.2
 145 29.7 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 17.711 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054815.D
 Acq: 30 Mar 2019 20:52

Tgt Ion:225 Resp: 44297
 Ion Ratio Lower Upper
 225 100
 223 64.6 31.1 93.5
 227 66.5 31.9 95.9





#95

Naphthalene

Concen: 19.692 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

Instrument :

MSVOA_N

ClientSampled :

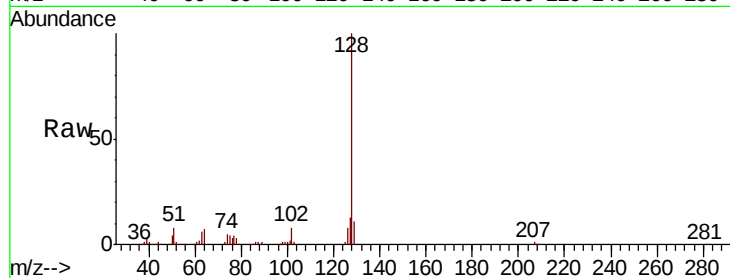
Tot Ion:128 Resp: 173241

Ion Ratio Lower Upper

128 100

127 12.9 10.1 15.1

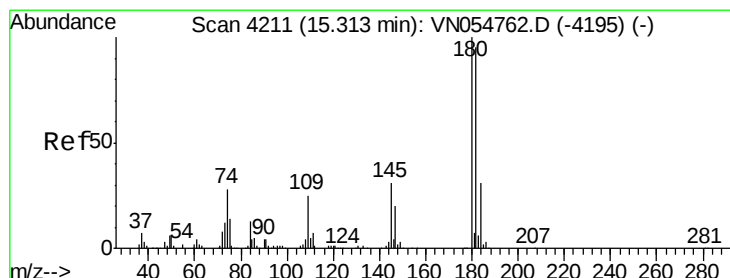
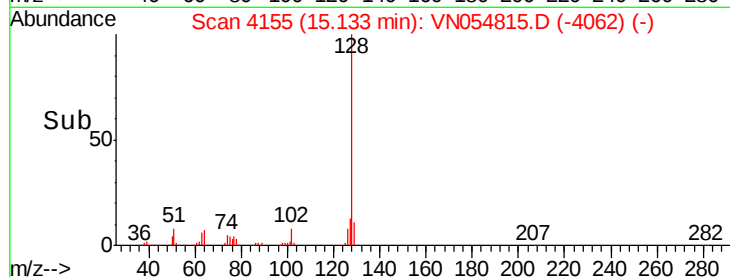
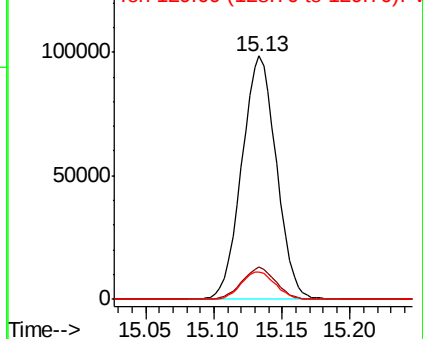
129 11.2 8.7 13.1



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: 18.491 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054815.D

Acq: 30 Mar 2019 20:52

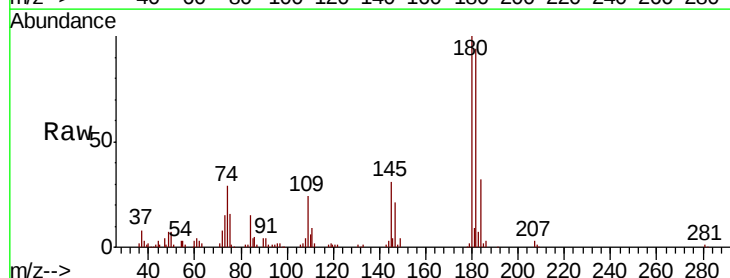
Tgt Ion:180 Resp: 73251

Ion Ratio Lower Upper

180 100

182 95.7 47.5 142.6

145 31.6 14.8 44.3



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

