

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN032019\
 Data File : VN054463.D
 Acq On : 20 Mar 2019 14:18
 Operator : JC/SP
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Mar 29 04:40:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	542610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	831129	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	693125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	254046	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	8619	1.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.56%	
35) Dibromofluoromethane	7.59	113	6258	1.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.34%	
50) Toluene-d8	10.09	98	23412	1.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.32%	
62) 4-Bromofluorobenzene	12.40	95	7334	1.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.14%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	5108	0.98	ug/l	94
3) Chloromethane	2.06	50	7338	1.04	ug/l	97
4) Vinyl Chloride	2.19	62	7131	1.01	ug/l	92
5) Bromomethane	2.58	94	5744	1.25	ug/l	84
6) Chloroethane	2.71	64	4646	1.09	ug/l	96
7) Trichlorofluoromethane	3.02	101	8512	0.99	ug/l	98
8) Diethyl Ether	3.42	74	3705	1.12	ug/l	84
9) 1,1,2-Trichlorotrifluoroet	3.75	101	5438	1.08	ug/l #	86
10) Methyl Iodide	3.95	142	5592	0.75	ug/l #	76
11) Tert butyl alcohol	4.80	59	418	1.02	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	5837	1.12	ug/l	89
13) Acrolein	3.61	56	3591	6.37	ug/l #	68
14) Allyl chloride	4.32	41	10773	1.09	ug/l #	77
15) Acrylonitrile	5.00	53	9891	4.86	ug/l #	75
16) Acetone	3.82	43	10893	5.37	ug/l #	83
17) Carbon Disulfide	4.05	76	16214	1.16	ug/l	99
18) Methyl Acetate	4.33	43	2621	0.58	ug/l	96
19) Methyl tert-butyl Ether	5.05	73	15270	1.00	ug/l	98
20) Methylene Chloride	4.55	84	6586	1.10	ug/l #	87
21) trans-1,2-Dichloroethene	5.04	96	5168	0.97	ug/l	86
22) Diisopropyl ether	5.95	45	10153	0.52	ug/l #	59
23) Vinyl Acetate	5.90	43	58515	4.26	ug/l #	92
24) 1,1-Dichloroethane	5.84	63	10287	0.98	ug/l #	95
25) 2-Butanone	6.86	43	10116	3.89	ug/l	100
26) 2,2-Dichloropropane	6.82	77	7286	0.98	ug/l	86
27) cis-1,2-Dichloroethene	6.83	96	6544	1.03	ug/l	91
28) Bromochloromethane	7.19	49	5015	0.97	ug/l #	72
29) Tetrahydrofuran	7.23	42	6858	4.07	ug/l #	81
30) Chloroform	7.36	83	10172	1.00	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	7287	0.86	ug/l #	43
36) 1,1-Dichloropropene	7.79	75	8686	1.12	ug/l	93
38) Carbon Tetrachloride	7.77	117	8389	1.11	ug/l	85
39) Methylcyclohexane	9.08	83	9544	1.07	ug/l	90
40) Benzene	8.04	78	22254	1.00	ug/l	96

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.18	41	4159	1.23	ug/l #	48
42) 1,2-Dichloroethane	8.12	62	8658	1.07	ug/l	93
43) Isopropyl Acetate	8.17	43	8507	0.91	ug/l #	92
44) Trichloroethene	8.83	130	6495	1.05	ug/l	97
45) 1,2-Dichloropropane	9.12	63	5655	0.95	ug/l	99
46) Dibromomethane	9.21	93	3472	0.98	ug/l	92
47) Bromodichloromethane	9.40	83	6991	0.95	ug/l #	97
48) Methyl methacrylate	9.20	41	5224	1.03	ug/l #	69
49) 1,4-Dioxane	9.20	88	1107	19.54	ug/l #	81
51) 4-Methyl-2-Pentanone	9.99	43	21984	4.25	ug/l	94
52) Toluene	10.16	92	13584	0.99	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	5586	2.92	ug/l #	84
54) cis-1,3-Dichloropropene	9.84	75	7177	0.85	ug/l #	86
55) 1,1,2-Trichloroethane	10.56	97	4784	0.97	ug/l	95
56) Ethyl methacrylate	10.43	69	5550	0.84	ug/l #	67
57) 1,3-Dichloropropane	10.71	76	8272	0.97	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	11168	4.11	ug/l #	88
59) 2-Hexanone	10.76	43	14475	4.28	ug/l	93
60) Dibromochloromethane	10.90	129	4240	0.81	ug/l	91
61) 1,2-Dibromoethane	11.00	107	4337	0.89	ug/l	95
64) Tetrachloroethene	10.63	164	6409	1.11	ug/l	94
65) Chlorobenzene	11.43	112	14439	1.02	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	4491	0.89	ug/l #	58
67) Ethyl Benzene	11.51	91	25222	1.01	ug/l	99
68) m/p-Xylenes	11.62	106	18471	1.96	ug/l	94
69) o-Xylene	11.95	106	9440	1.02	ug/l	94
70) Styrene	11.96	104	14070	0.94	ug/l	95
71) Bromoform	12.13	173	2346	2.86	ug/l #	91
73) Isopropylbenzene	12.25	105	24291	1.19	ug/l	98
74) N-amyl acetate	12.08	43	5038	0.86	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	5020	1.07	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	6035	1.50	ug/l #	100
77) Bromobenzene	12.52	156	6030	1.19	ug/l	89
78) n-propylbenzene	12.59	91	25146	1.13	ug/l	96
79) 2-Chlorotoluene	12.68	91	17004	1.23	ug/l	93
80) 1,3,5-Trimethylbenzene	12.73	105	19235	1.15	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.29	75	967	3.95	ug/l #	79
82) 4-Chlorotoluene	12.77	91	14979	1.12	ug/l	95
83) tert-Butylbenzene	12.99	119	17195	1.18	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	18424	1.12	ug/l	94
85) sec-Butylbenzene	13.17	105	21774	1.20	ug/l	98
86) p-Isopropyltoluene	13.29	119	18571	1.14	ug/l	94
87) 1,3-Dichlorobenzene	13.28	146	9430	1.12	ug/l	98
88) 1,4-Dichlorobenzene	13.28	146	9430	1.15	ug/l	97
89) n-Butylbenzene	13.62	91	13181	1.03	ug/l	99
90) Hexachloroethane	13.87	117	2510	0.99	ug/l	78
91) 1,2-Dichlorobenzene	13.65	146	8904	1.09	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.27	75	583	0.85	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	4110	1.01	ug/l	95
94) Hexachlorobutadiene	15.01	225	3687	Below	Cal	91

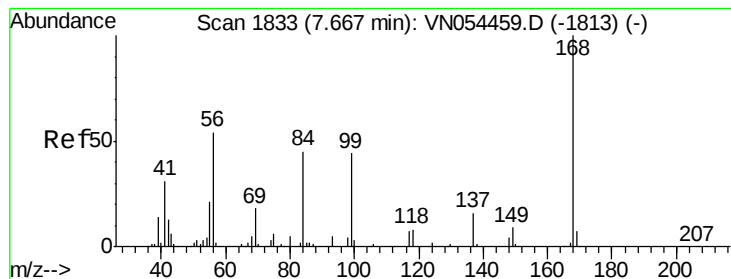
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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	15.13	128	8917	0.98	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	4182	1.03	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

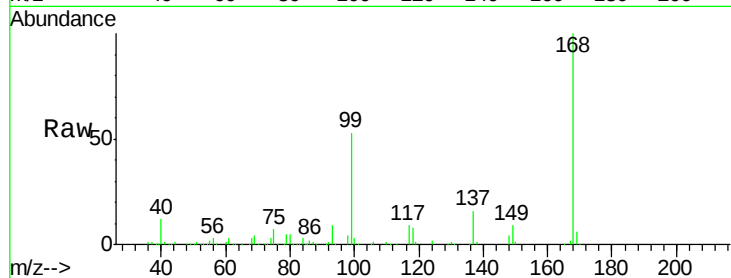
VSTDIC001

Tot Ion:168 Resp: 542610

Ion Ratio Lower Upper

168 100

99 52.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

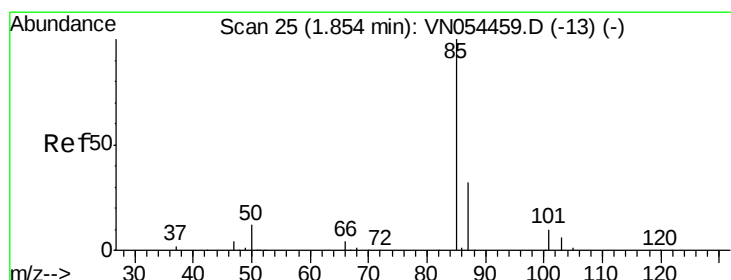
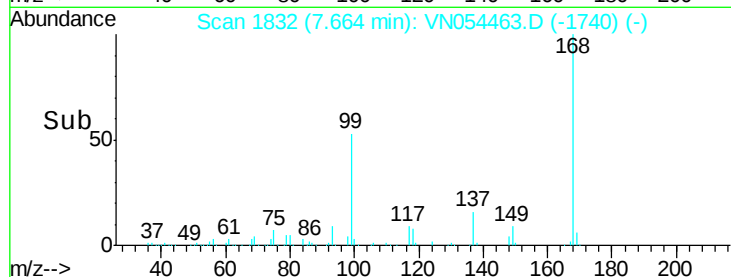
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.98 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054463.D

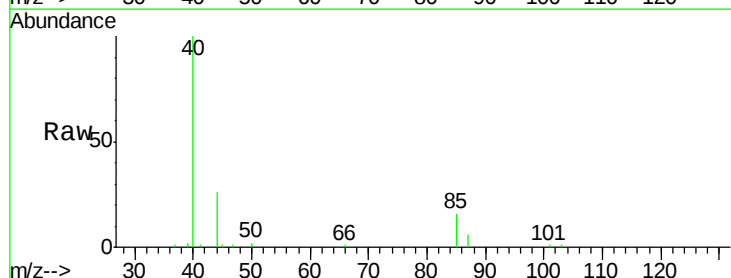
Acq: 20 Mar 2019 14:18

Tgt Ion: 85 Resp: 5108

Ion Ratio Lower Upper

85 100

87 35.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

4000

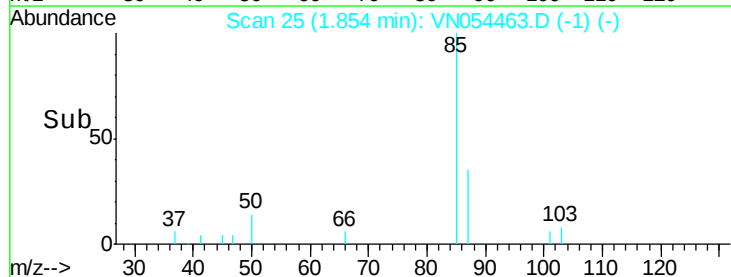
3000

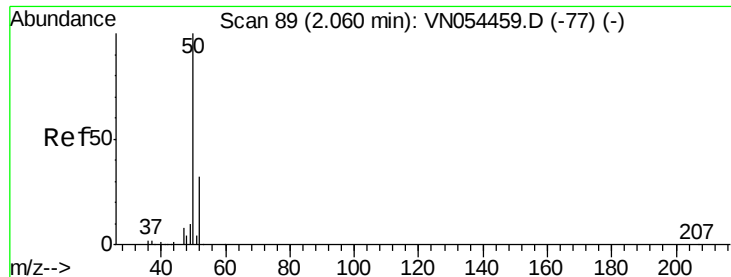
2000

1000

0

Time-->





#3

Chloromethane

Concen: 1.04 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

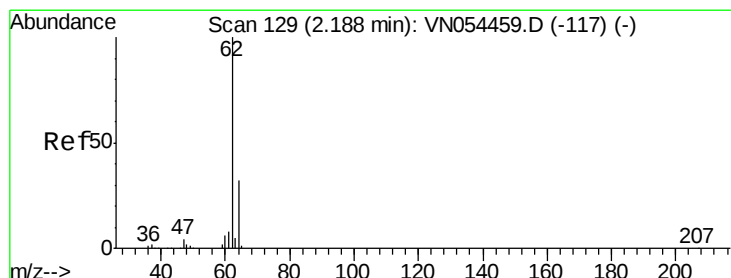
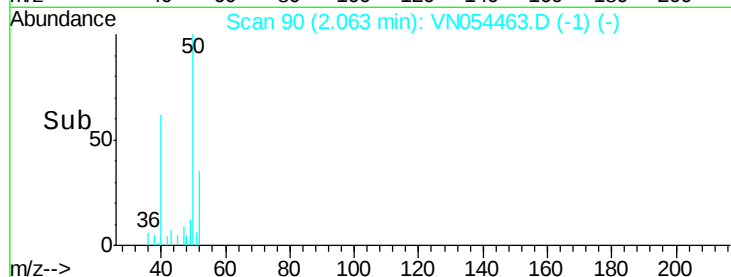
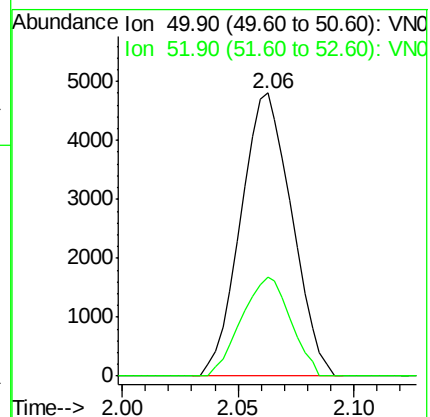
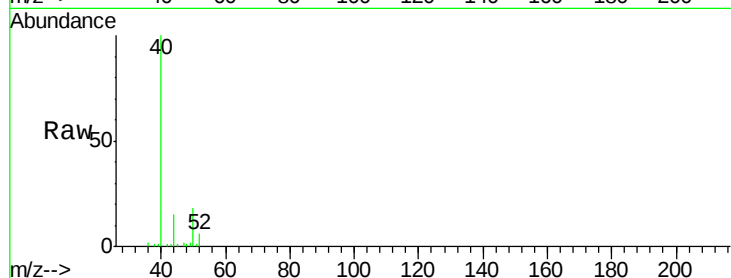
VSTDIC001

Tot Ion: 50 Resp: 7338

Ion Ratio Lower Upper

50 100

52 35.0 26.4 39.6



#4

Vinyl Chloride

Concen: 1.01 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054463.D

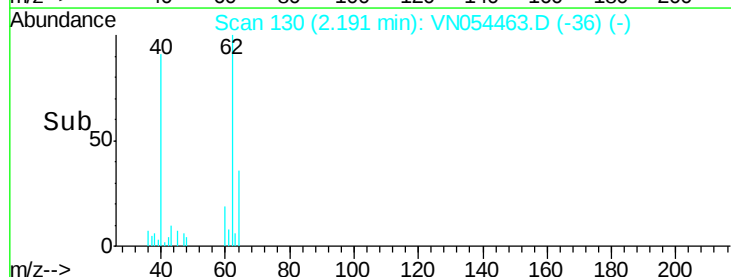
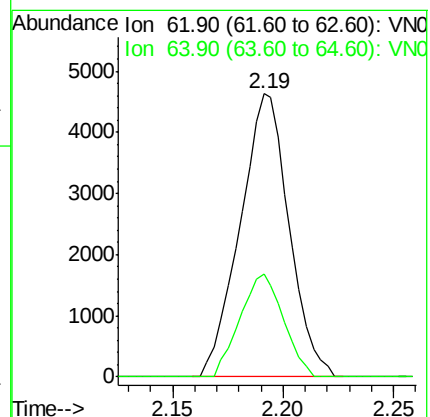
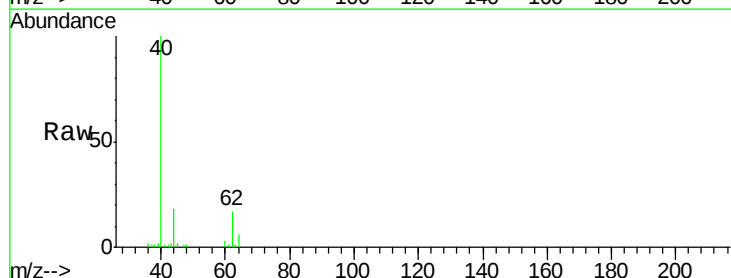
Acq: 20 Mar 2019 14:18

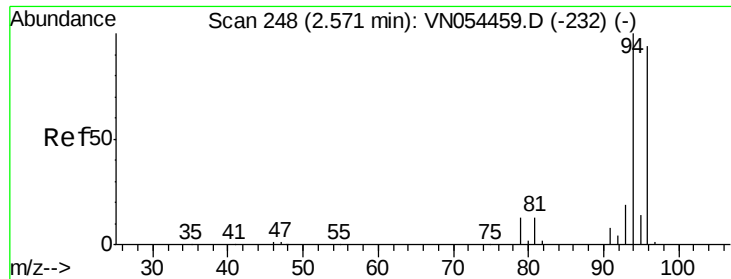
Tgt Ion: 62 Resp: 7131

Ion Ratio Lower Upper

62 100

64 36.3 25.5 38.3





#5

Bromomethane

Concen: 1.25 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

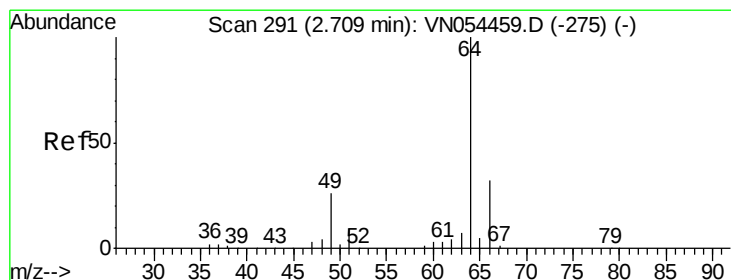
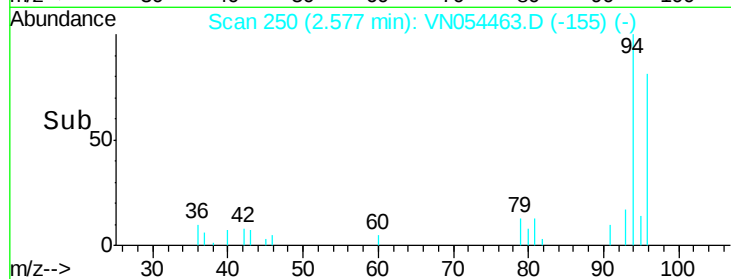
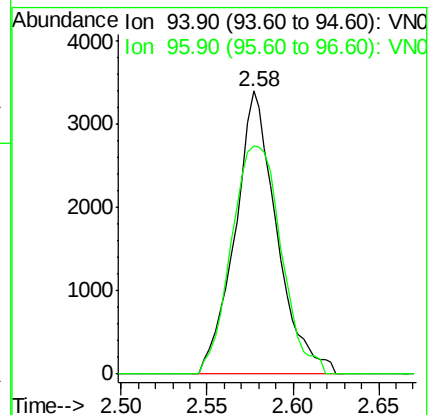
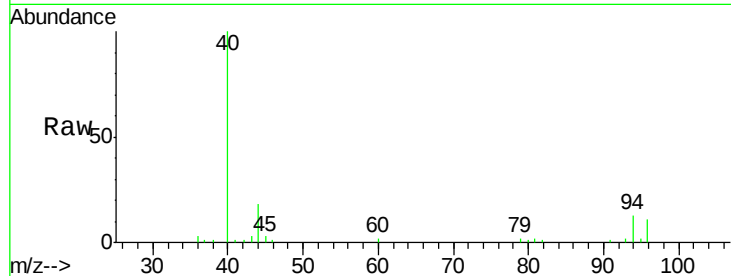
VSTDIC001

Tot Ion: 94 Resp: 5744

Ion Ratio Lower Upper

94 100

96 80.8 77.0 115.4



#6

Chloroethane

Concen: 1.09 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054463.D

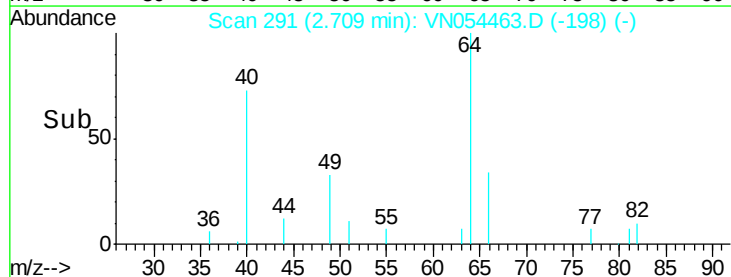
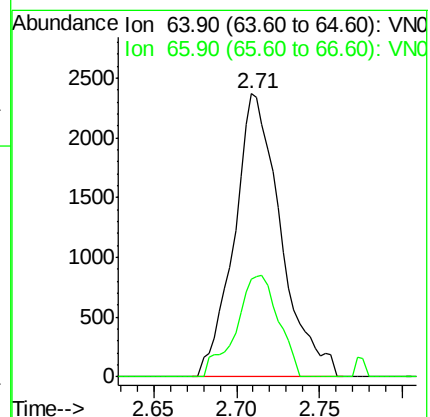
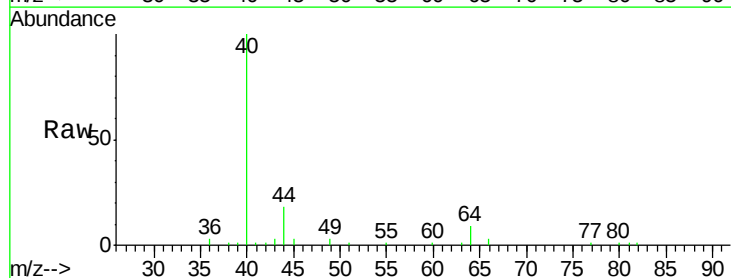
Acq: 20 Mar 2019 14:18

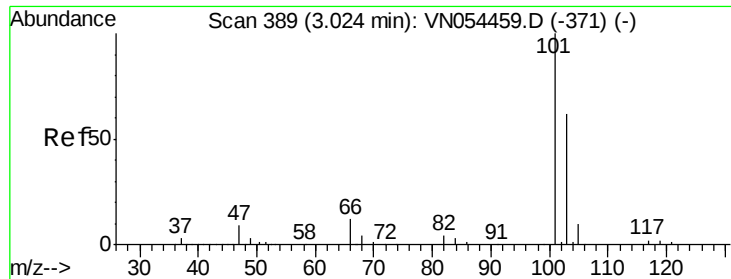
Tgt Ion: 64 Resp: 4646

Ion Ratio Lower Upper

64 100

66 34.4 25.7 38.5



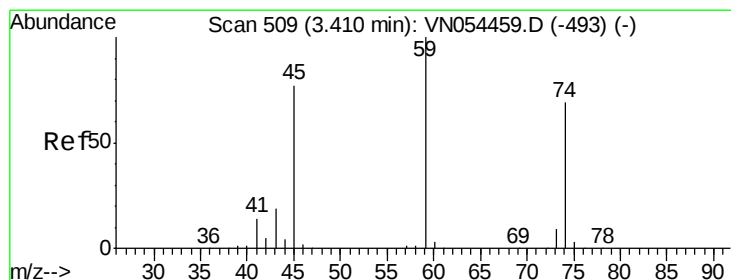
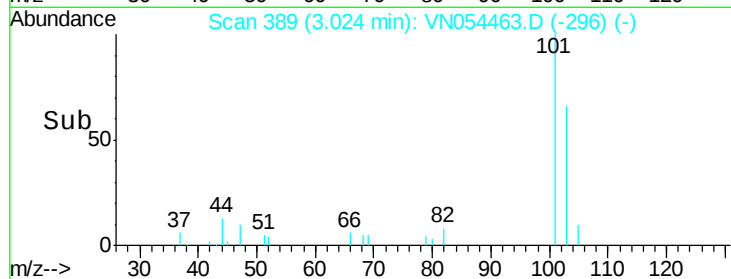
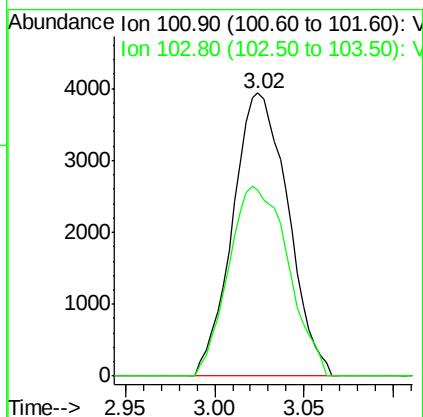
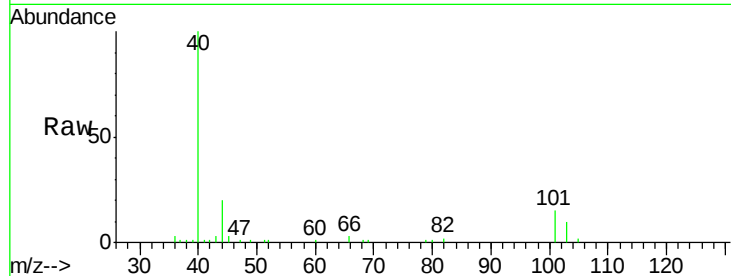


#7

Trichlorofluoromethane
Concen: 0.99 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

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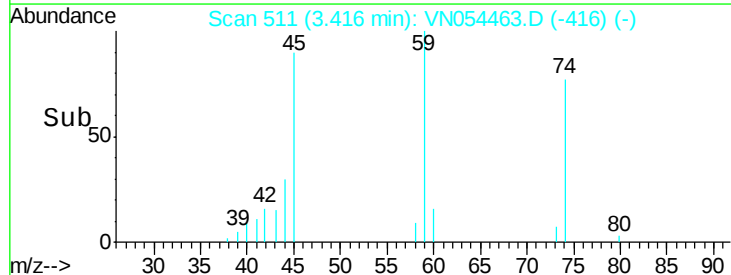
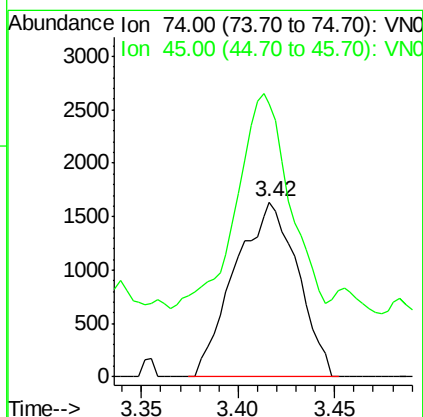
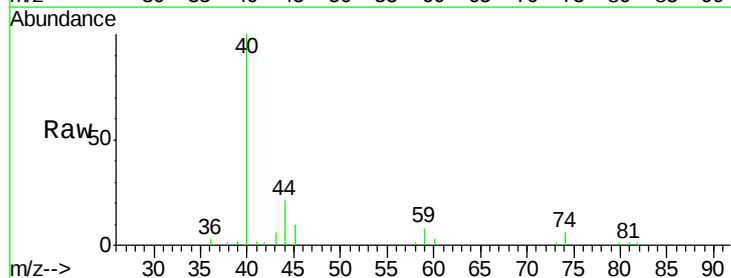
Tot Ion:101 Resp: 8512
Ion Ratio Lower Upper
101 100
103 65.7 51.4 77.2

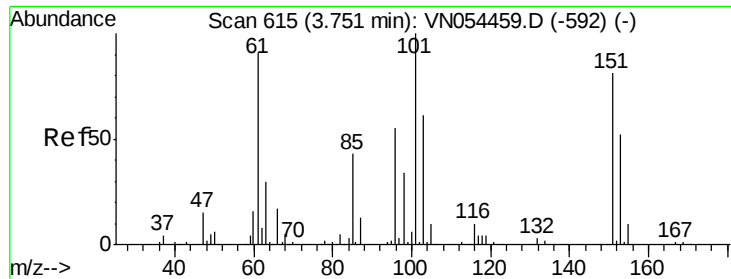


#8

Diethyl Ether
Concen: 1.12 ug/l
RT: 3.42 min Scan# 511
Delta R.T. 0.01 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 74 Resp: 3705
Ion Ratio Lower Upper
74 100
45 101.2 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.08 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

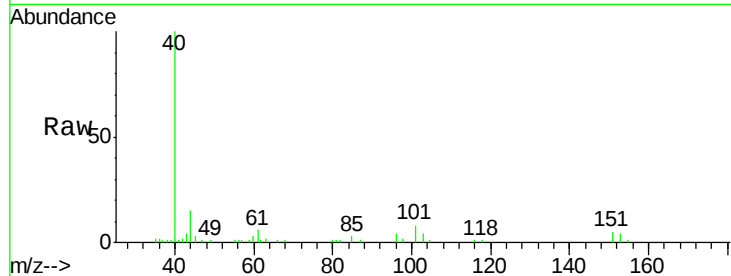
Tot Ion:101 Resp: 5438

Ion Ratio Lower Upper

101 100

85 25.5 32.4 48.6#

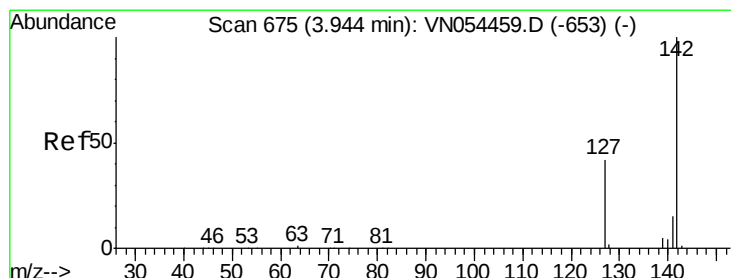
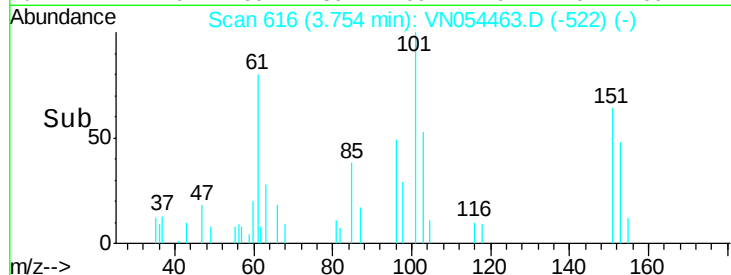
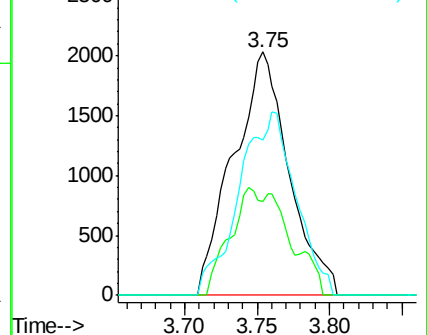
151 76.4 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.75 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

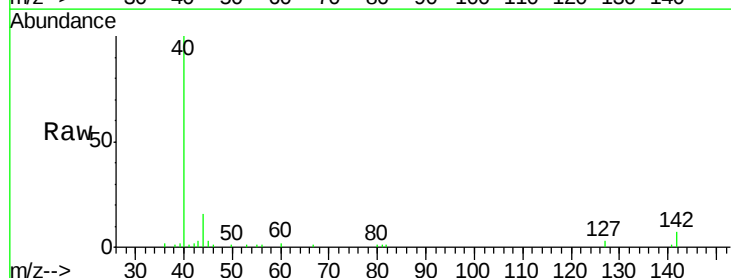
Tgt Ion:142 Resp: 5592

Ion Ratio Lower Upper

142 100

127 21.8 30.3 45.5#

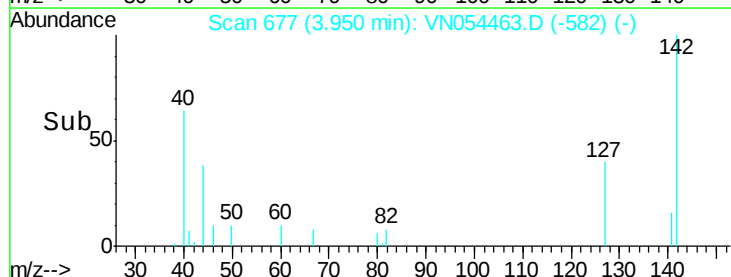
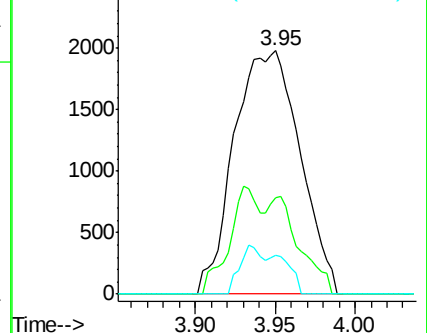
141 6.9 11.2 16.8#

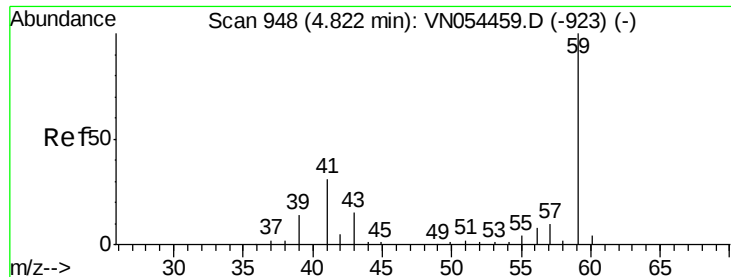


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

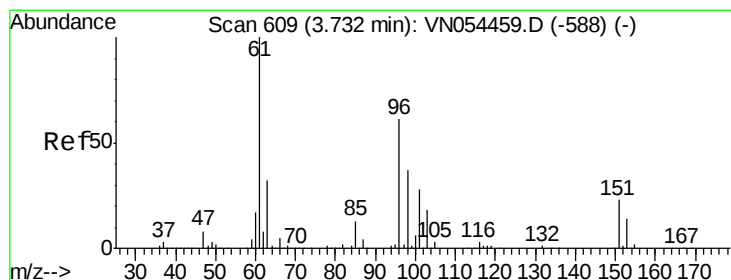
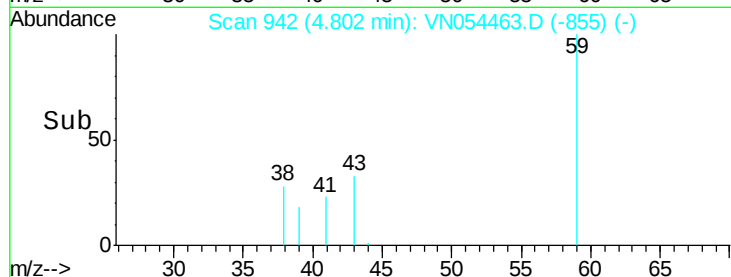
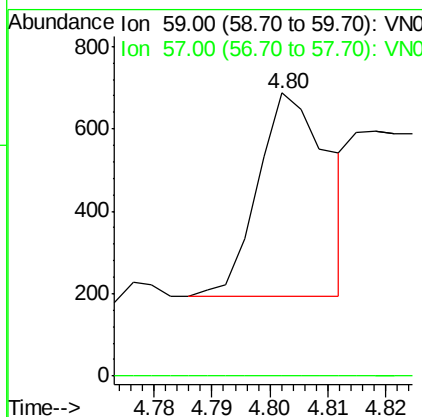
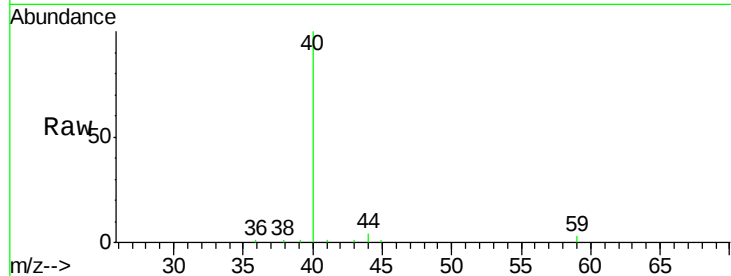




#11
Tert butyl alcohol
Concen: 1.02 ug/l
RT: 4.80 min Scan# 942
Delta R.T. -0.02 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

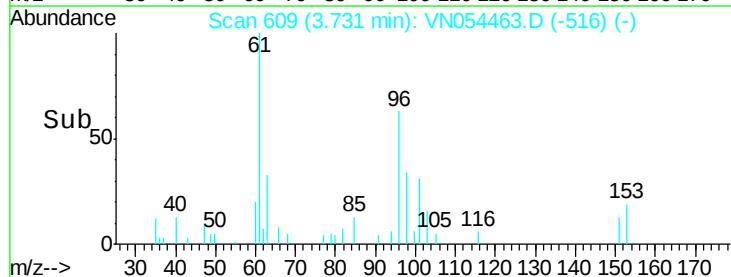
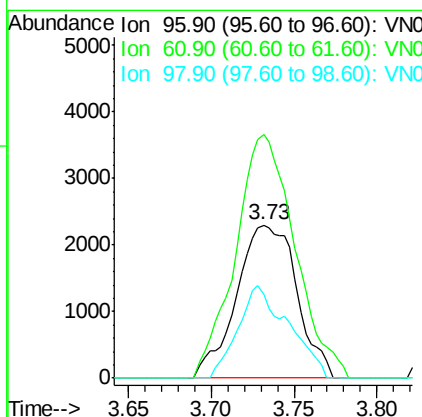
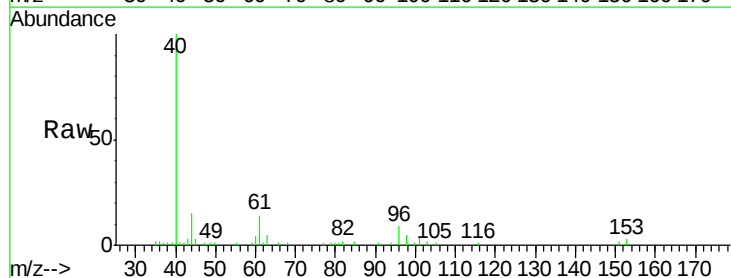
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

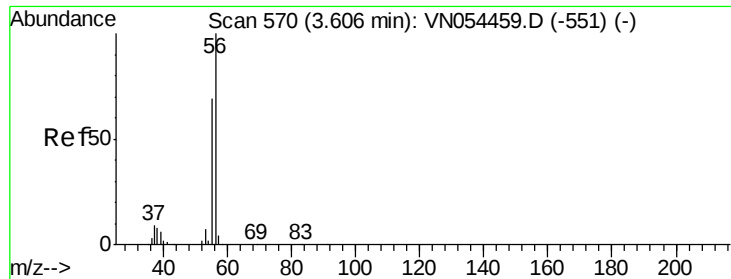
Tot Ion: 59 Resp: 418
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#12
1,1-Dichloroethene
Concen: 1.12 ug/l
RT: 3.73 min Scan# 609
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 96 Resp: 5837
Ion Ratio Lower Upper
96 100
61 158.8 116.5 174.7
98 54.4 51.0 76.4





#13

Acrolein

Concen: 6.37 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

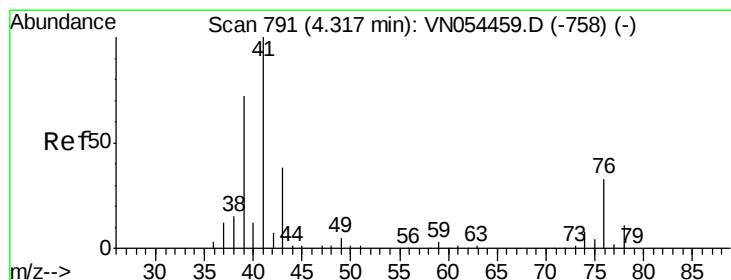
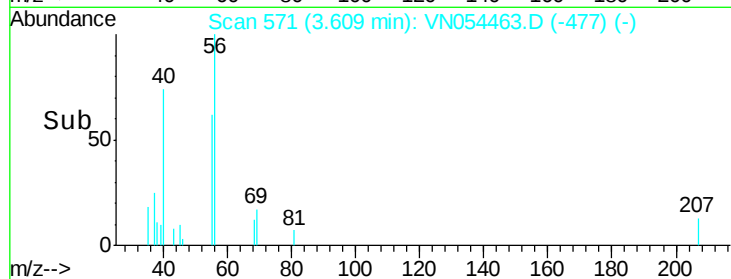
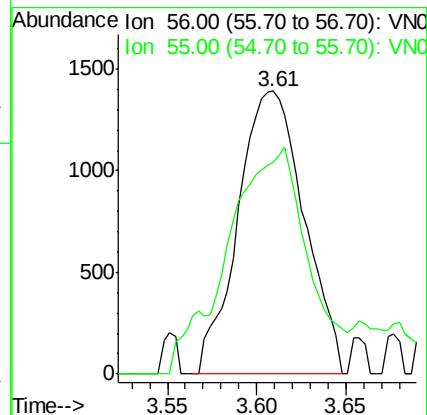
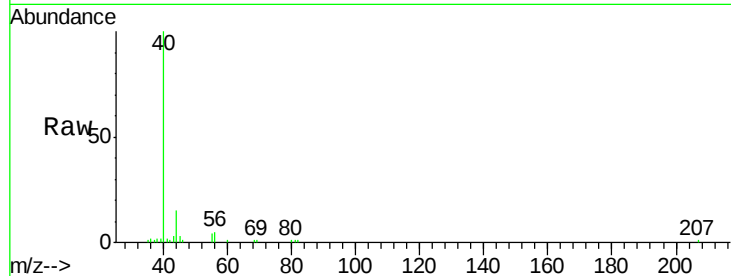
VSTDIC001

Tot Ion: 56 Resp: 3591

Ion Ratio Lower Upper

56 100

55 97.5 56.7 85.1#



#14

Allyl chloride

Concen: 1.09 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

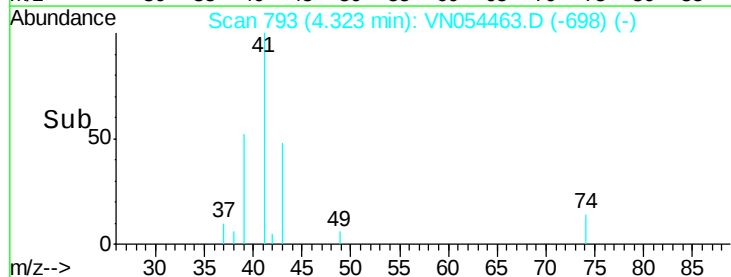
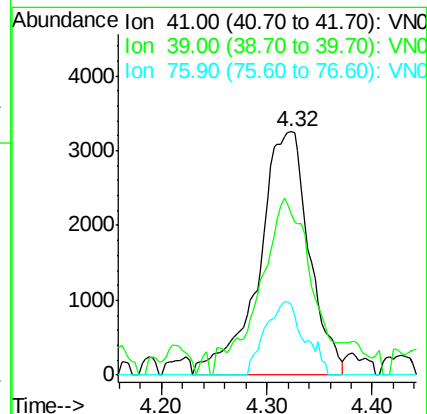
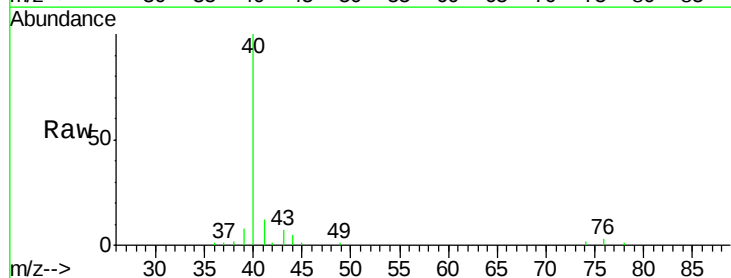
Tgt Ion: 41 Resp: 10773

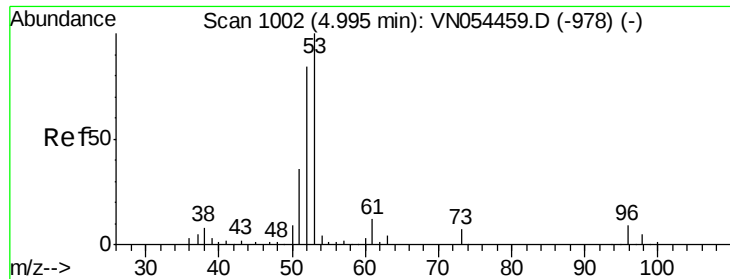
Ion Ratio Lower Upper

41 100

39 55.5 58.2 87.4#

76 23.4 31.7 47.5#

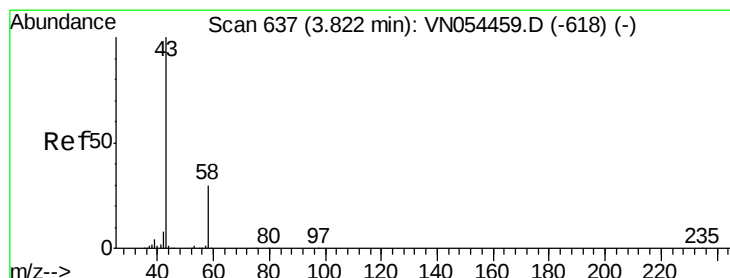
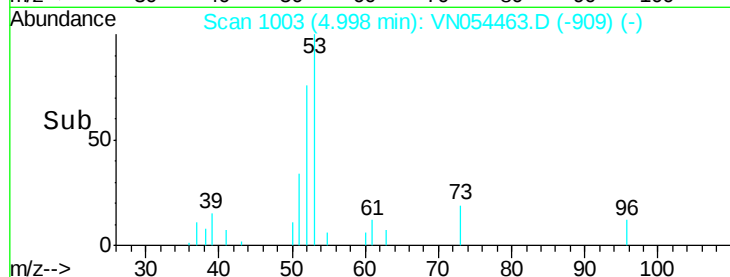
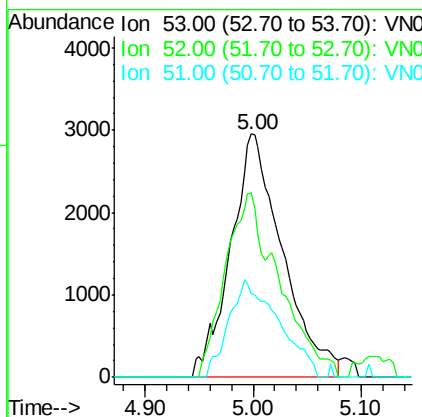
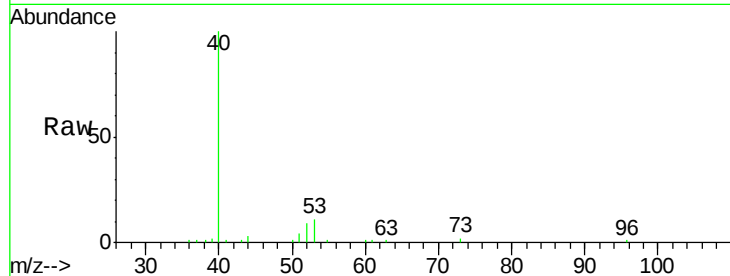




#15
 Acrylonitrile
 Concen: 4.86 ug/l
 RT: 5.00 min Scan# 1003
 Delta R.T. 0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

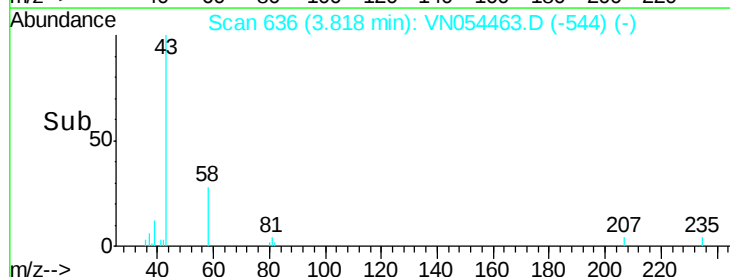
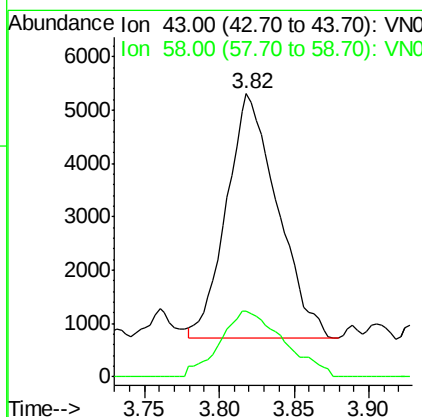
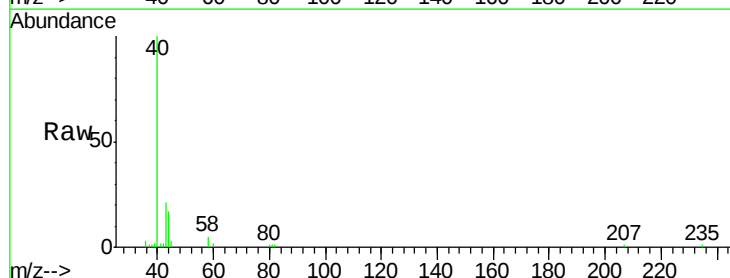
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

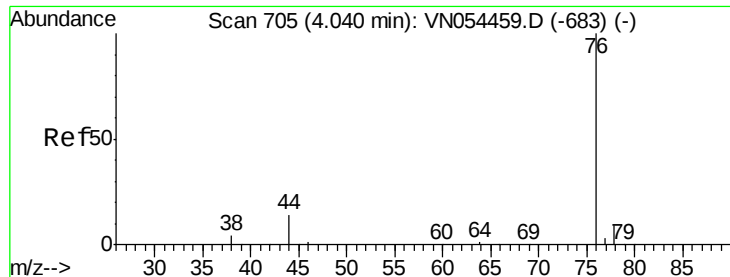
Tot Ion: 53 Resp: 9891
 Ion Ratio Lower Upper
 53 100
 52 51.8 66.4 99.6#
 51 38.5 29.6 44.4



#16
 Acetone
 Concen: 5.37 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion: 43 Resp: 10893
 Ion Ratio Lower Upper
 43 100
 58 27.0 29.9 44.9#

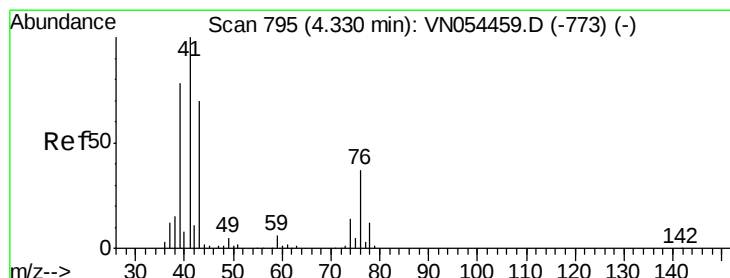
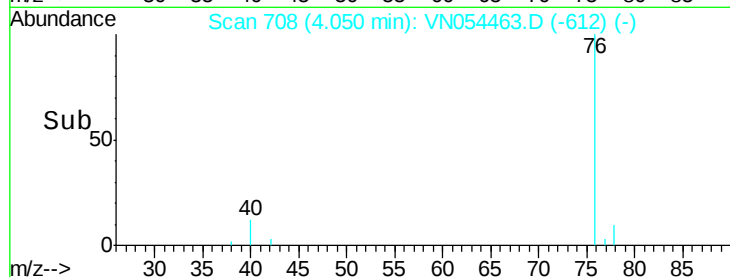
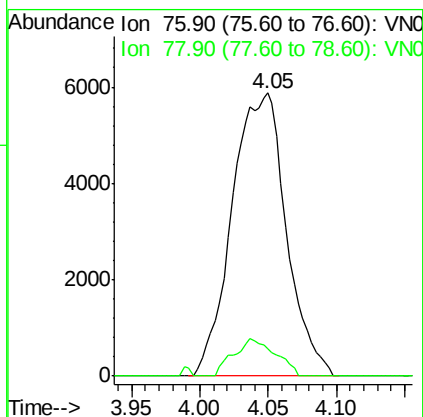
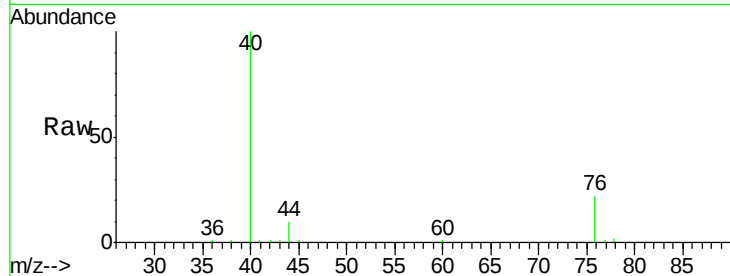




#17
Carbon Disulfide
Concen: 1.16 ug/l
RT: 4.05 min Scan# 708
Delta R.T. 0.01 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

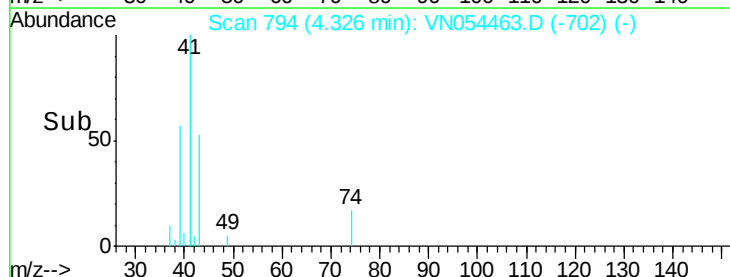
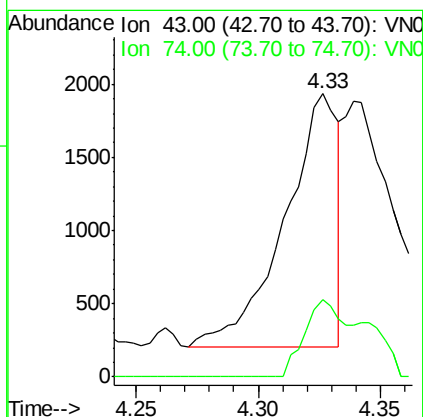
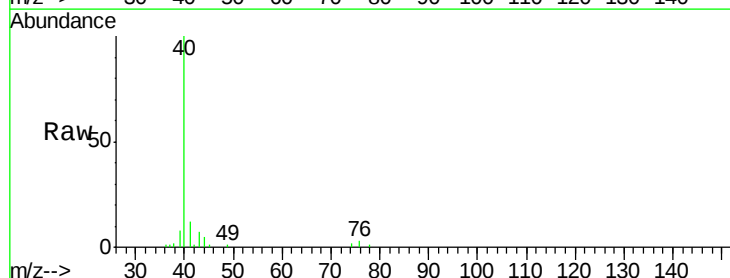
Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

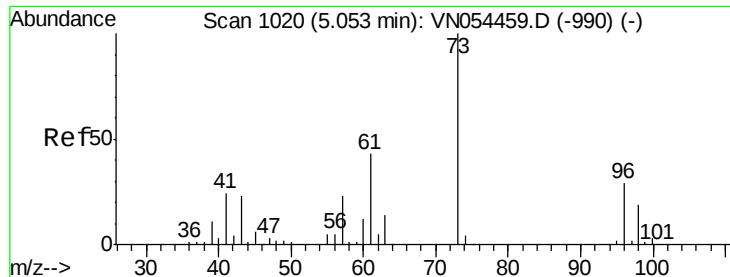
Tot Ion: 76 Resp: 16214
Ion Ratio Lower Upper
76 100
78 9.7 7.5 11.3



#18
Methyl Acetate
Concen: 0.58 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 43 Resp: 2621
Ion Ratio Lower Upper
43 100
74 23.8 20.8 31.2

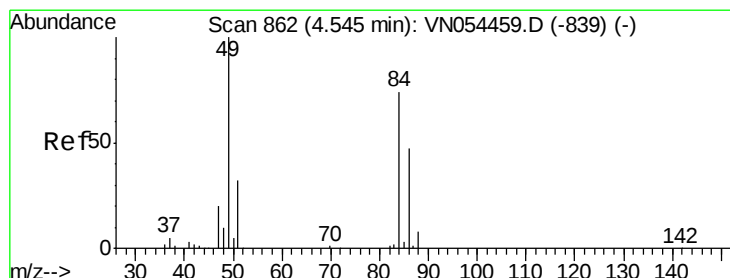
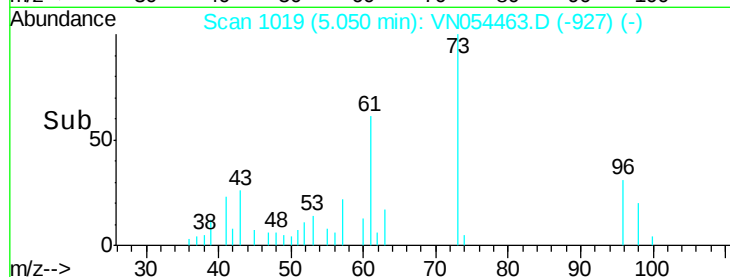
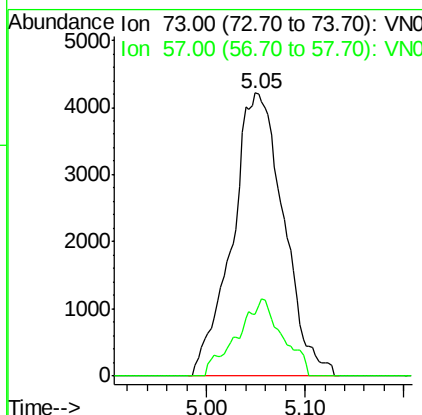
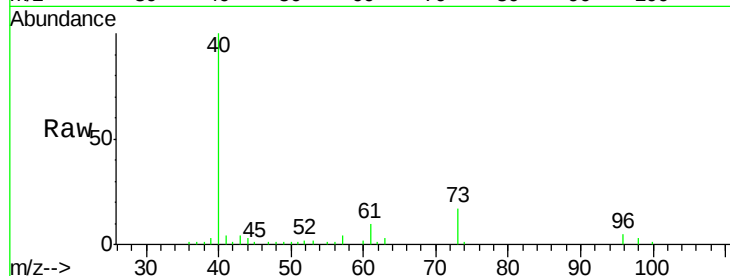




#19
Methyl tert-butyl Ether
Concen: 1.00 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

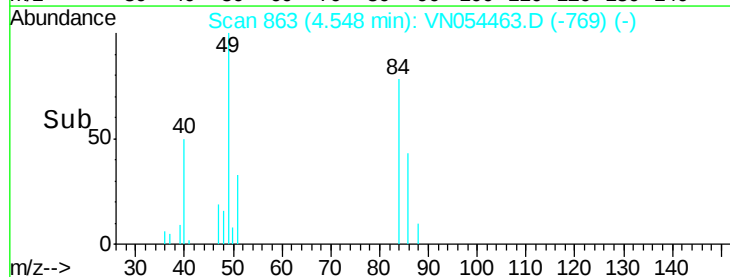
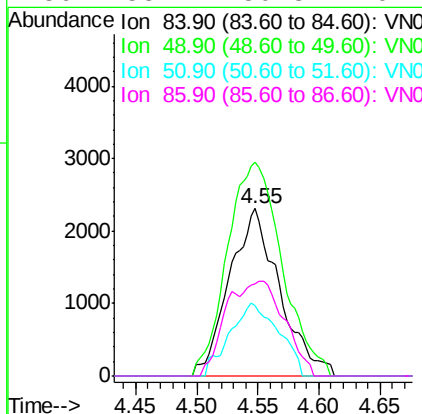
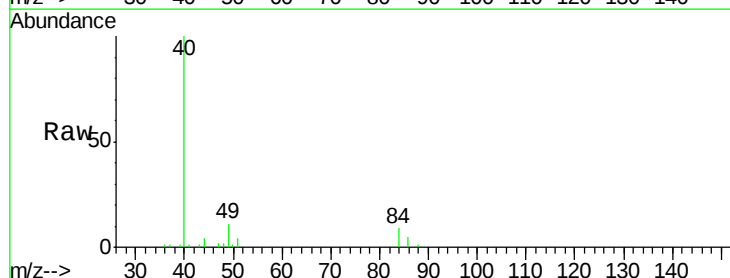
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

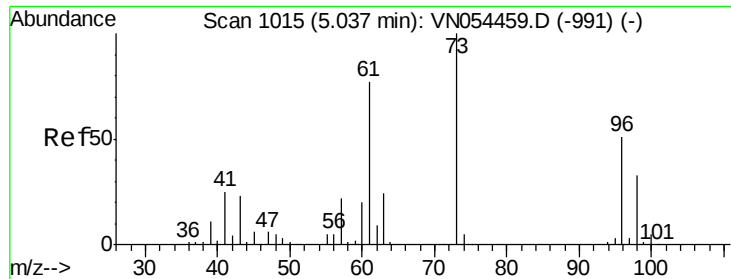
Tot Ion: 73 Resp: 15270
Ion Ratio Lower Upper
73 100
57 22.0 16.8 25.2



#20
Methylene Chloride
Concen: 1.10 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 84 Resp: 6586
Ion Ratio Lower Upper
84 100
49 127.7 89.7 134.5
51 42.4 28.2 42.4#
86 55.4 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 0.97 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

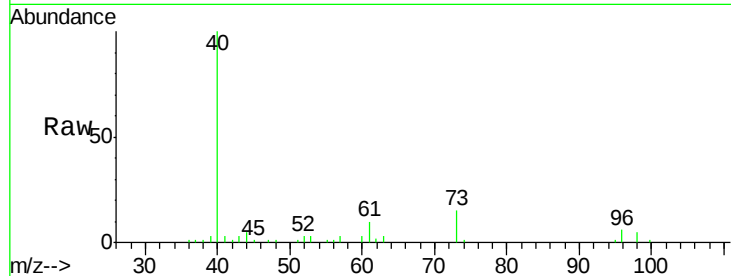
Tot Ion: 96 Resp: 5168

Ion Ratio Lower Upper

96 100

61 146.0 102.8 154.2

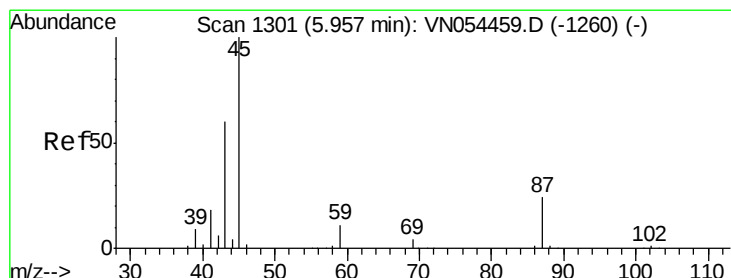
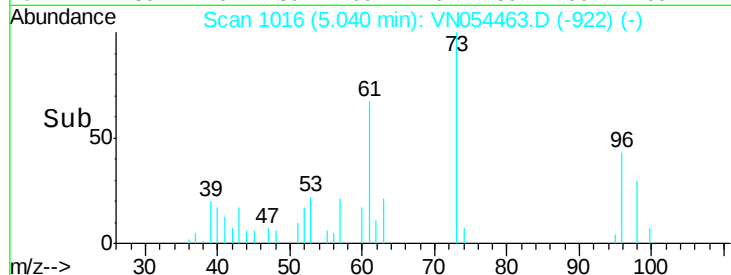
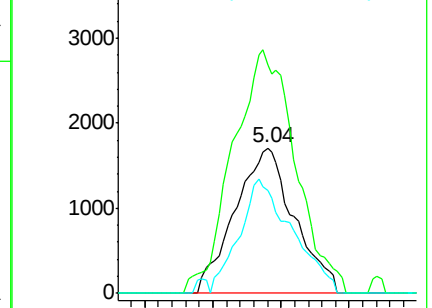
98 70.5 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 0.52 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Tgt Ion: 45 Resp: 10153

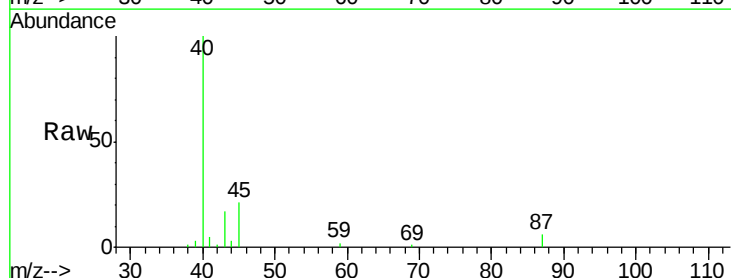
Ion Ratio Lower Upper

45 100

43 9.7 48.2 72.2#

87 26.8 24.9 37.3

59 11.5 9.5 14.3

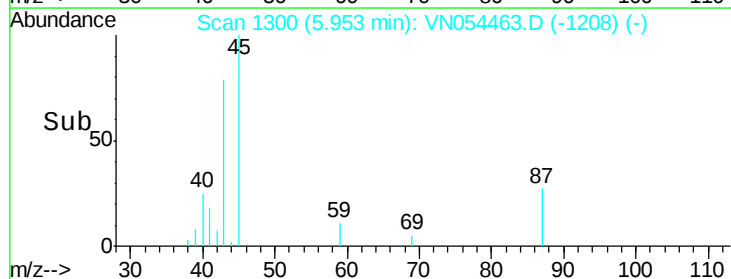
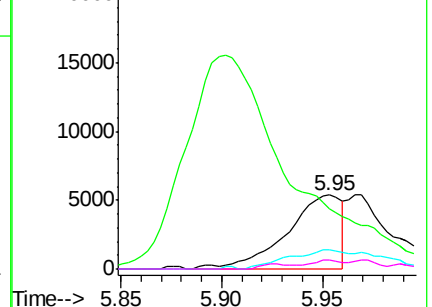


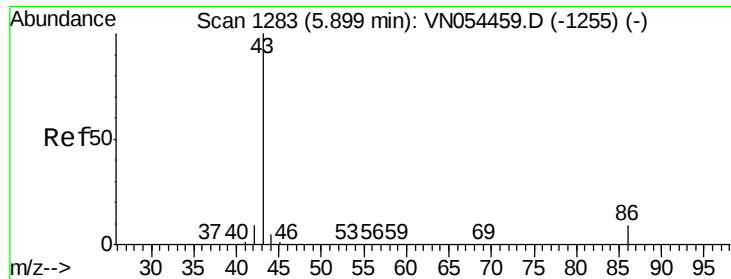
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 4.26 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

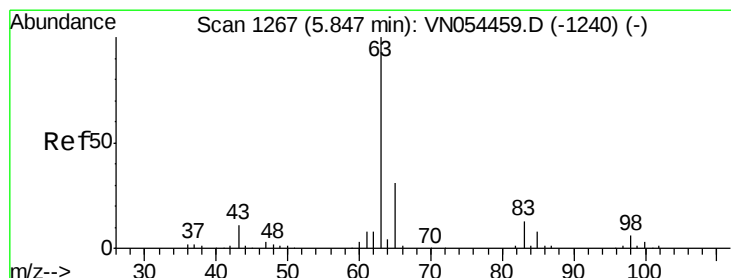
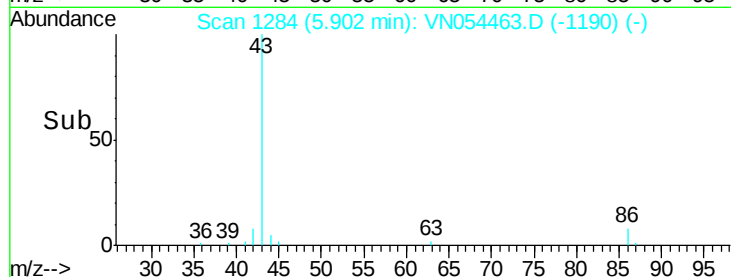
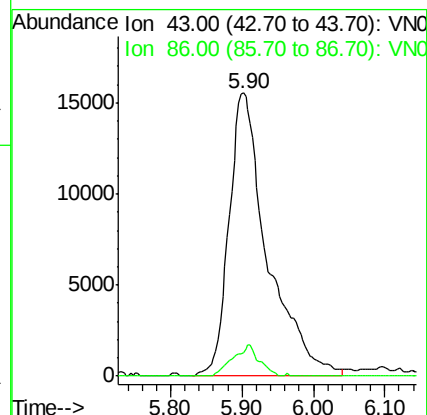
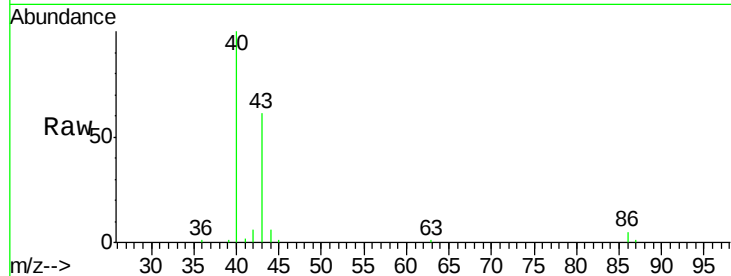
VSTDIC001

Tot Ion: 43 Resp: 58515

Ion Ratio Lower Upper

43 100

86 8.2 9.1 13.7#



#24

1,1-Dichloroethane

Concen: 0.98 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

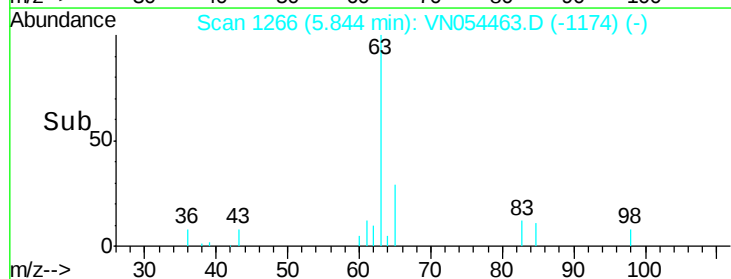
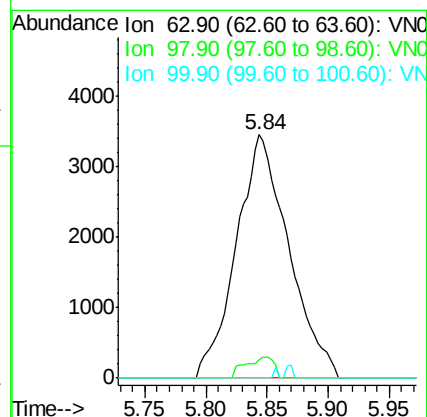
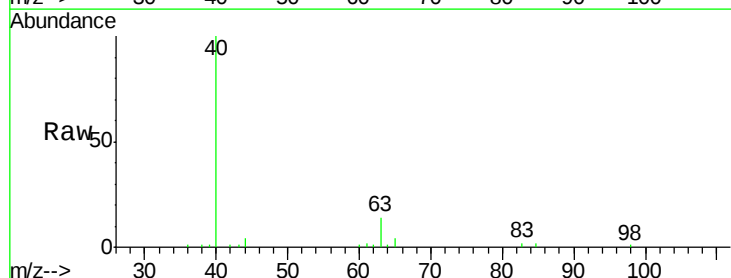
Tgt Ion: 63 Resp: 10287

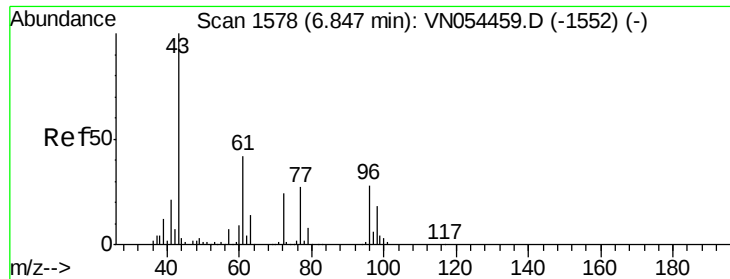
Ion Ratio Lower Upper

63 100

98 7.5 3.5 10.5

100 0.0 2.0 6.0#





#25

2-Butanone

Concen: 3.89 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

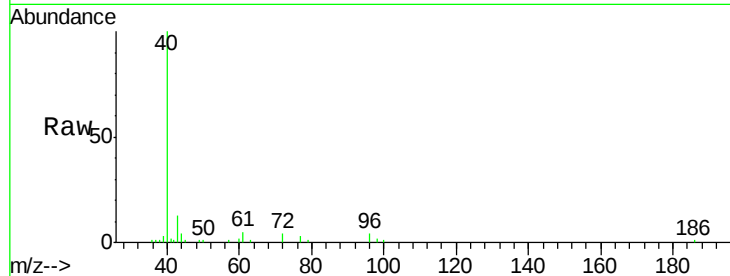
VSTDIC001

Tot Ion: 43 Resp: 10116

Ion Ratio Lower Upper

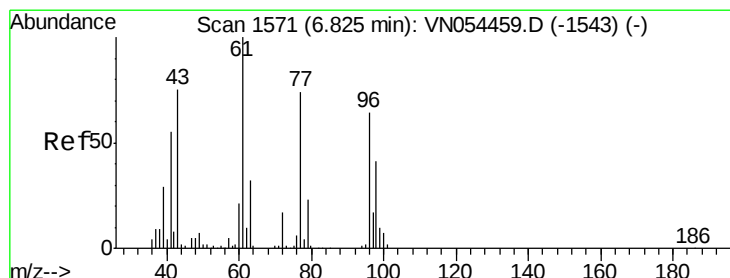
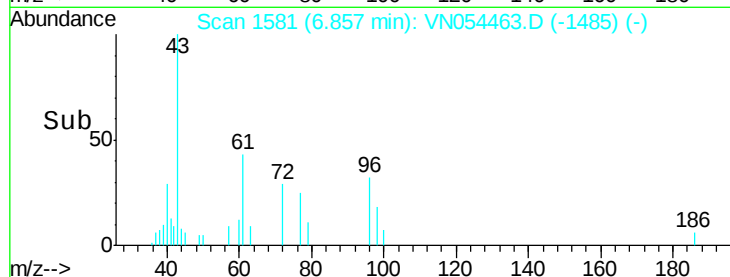
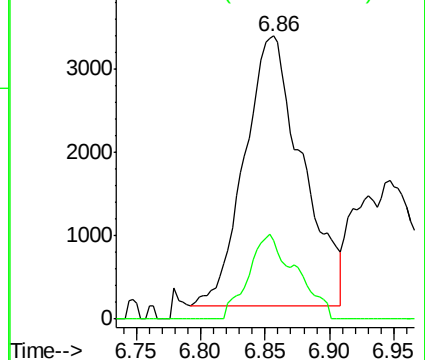
43 100

72 29.0 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 0.98 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN054463.D

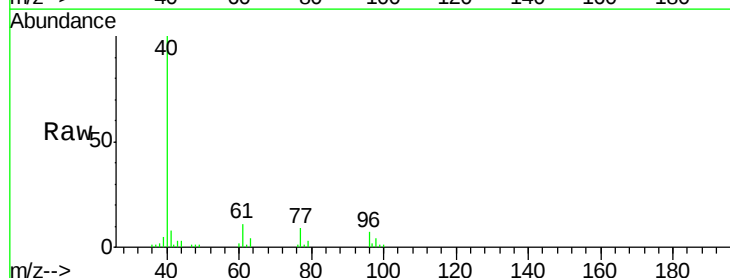
Acq: 20 Mar 2019 14:18

Tgt Ion: 77 Resp: 7286

Ion Ratio Lower Upper

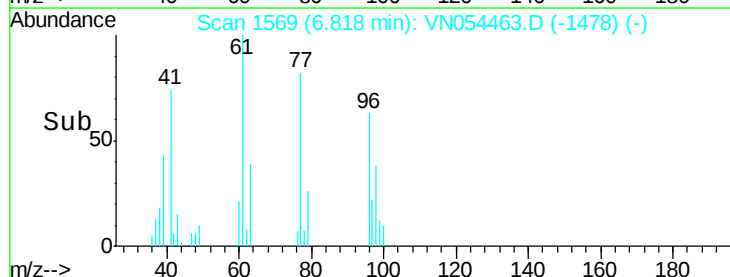
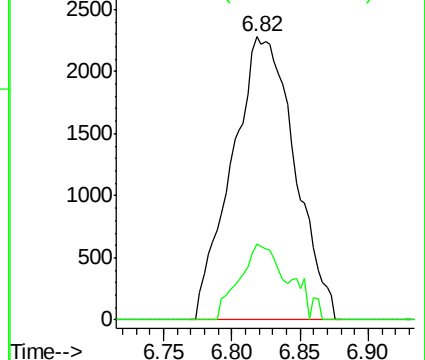
77 100

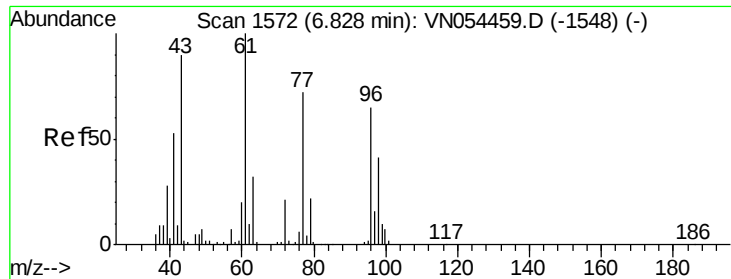
97 17.0 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 1.03 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

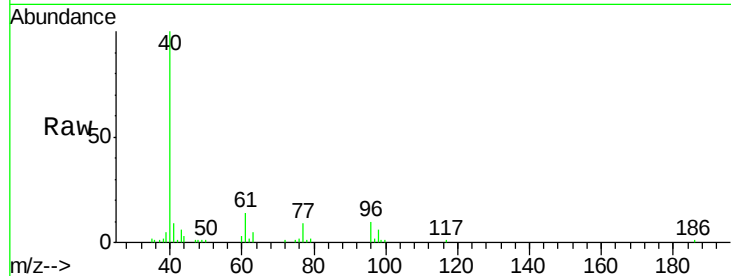
Tot Ion: 96 Resp: 6544

Ion Ratio Lower Upper

96 100

61 150.6 0.0 273.0

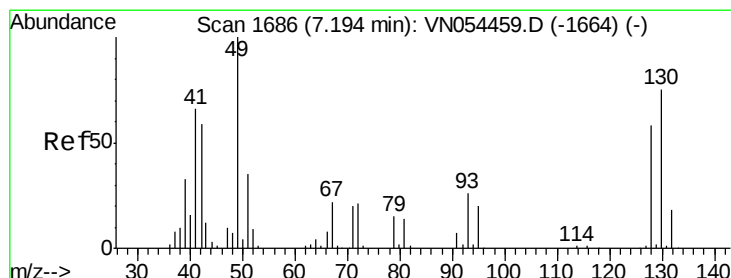
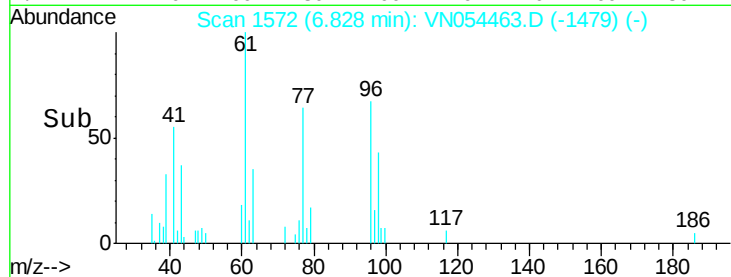
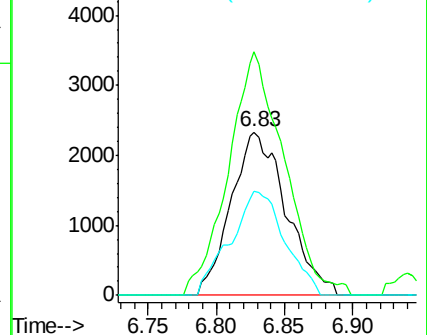
98 63.0 0.0 130.6



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: 0.97 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

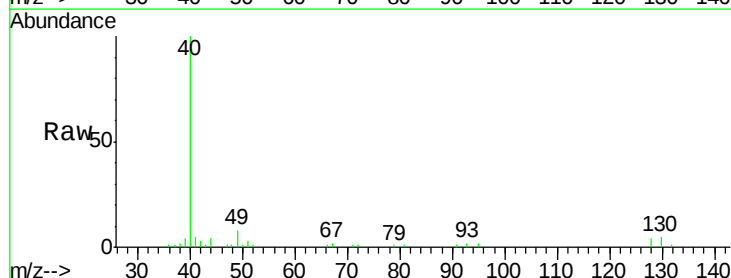
Tgt Ion: 49 Resp: 5015

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

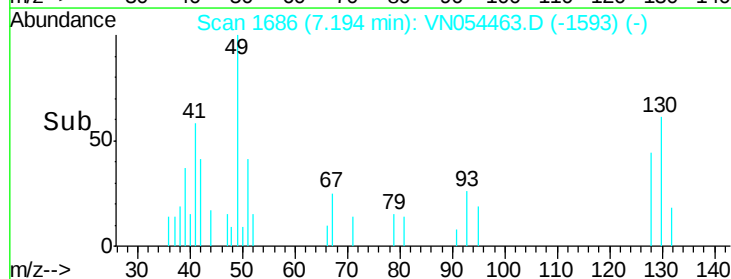
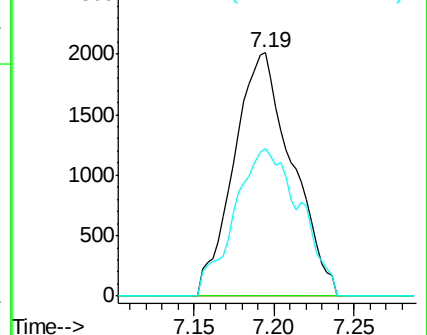
130 68.4 76.7 115.1#

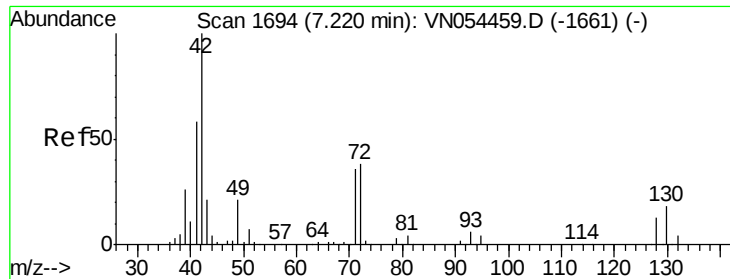


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

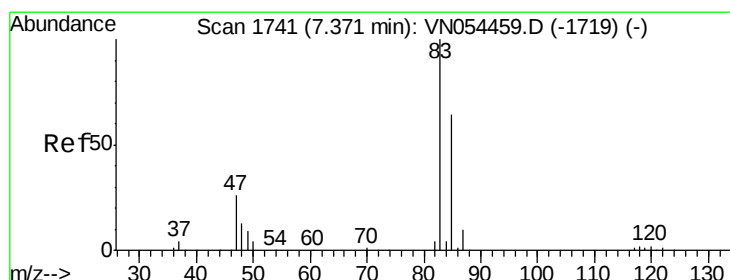
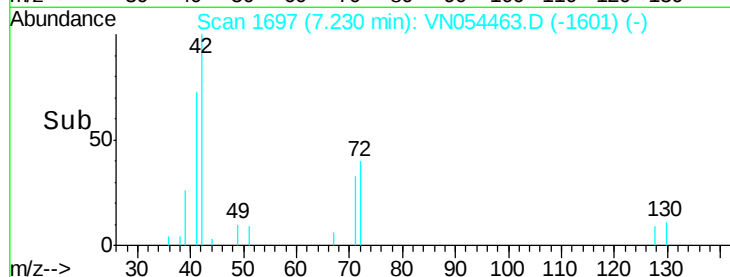
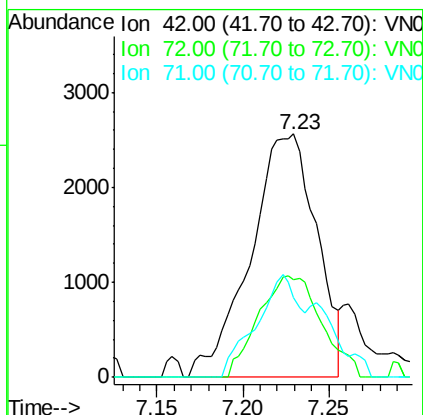
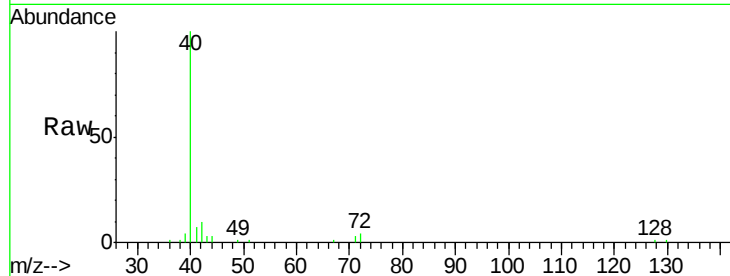




#29
Tetrahydrofuran
Concen: 4.07 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

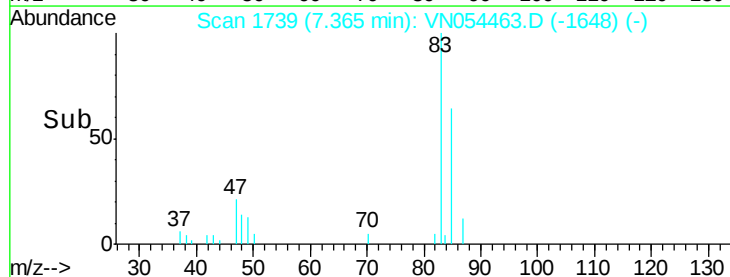
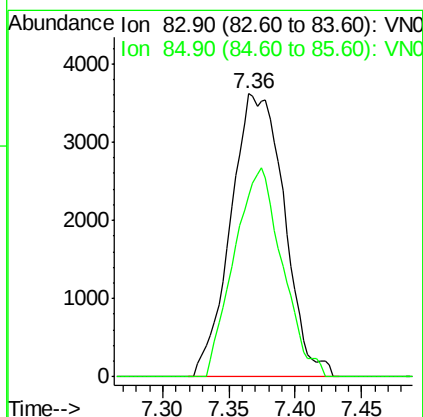
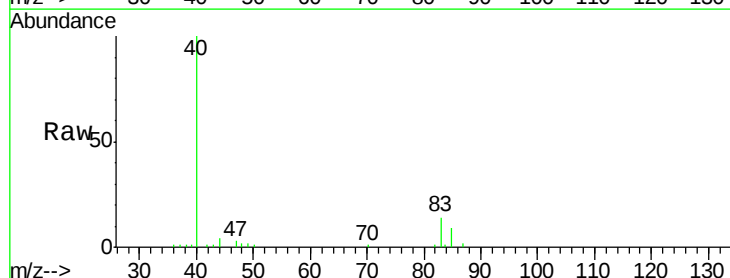
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

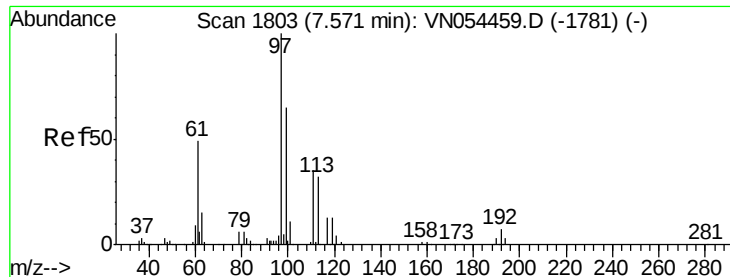
Tot Ion: 42 Resp: 6858
Ion Ratio Lower Upper
42 100
72 39.6 37.8 56.6
71 27.6 36.2 54.2#



#30
Chloroform
Concen: 1.00 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. -0.01 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 83 Resp: 10172
Ion Ratio Lower Upper
83 100
85 63.8 52.2 78.4





#32

1,1,1-Trichloroethane

Concen: 0.86 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

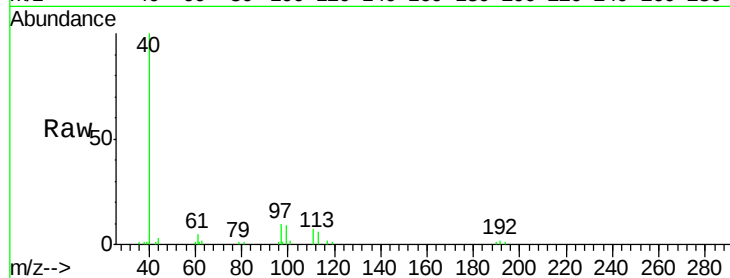
Tot Ion: 97 Resp: 7287

Ion Ratio Lower Upper

97 100

99 0.0 51.5 77.3#

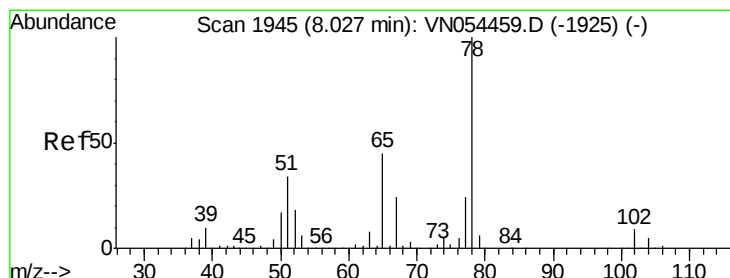
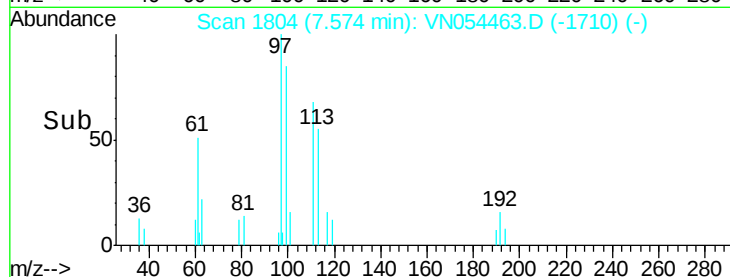
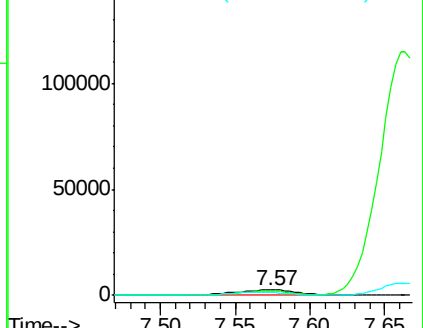
61 53.5 33.6 50.4#



Abundance Ion 96.90 (96.60 to 97.60): VN054459.D (-1781) (-)

Ion 98.90 (98.60 to 99.60): VN054459.D (-1781) (-)

Ion 60.90 (60.60 to 61.60): VN054459.D (-1781) (-)



#33

1,2-Dichloroethane-d4

Concen: 1.28 ug/l

RT: 8.03 min Scan# 1947

Delta R.T. 0.01 min

Lab File: VN054463.D

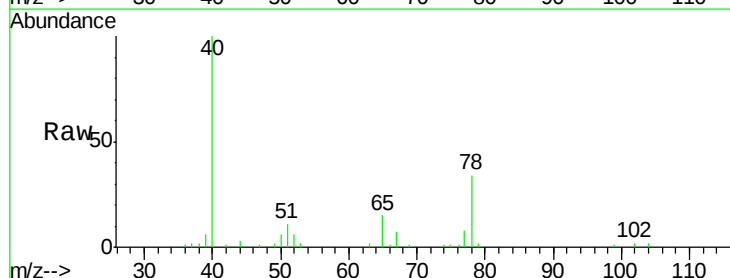
Acq: 20 Mar 2019 14:18

Tgt Ion: 65 Resp: 8619

Ion Ratio Lower Upper

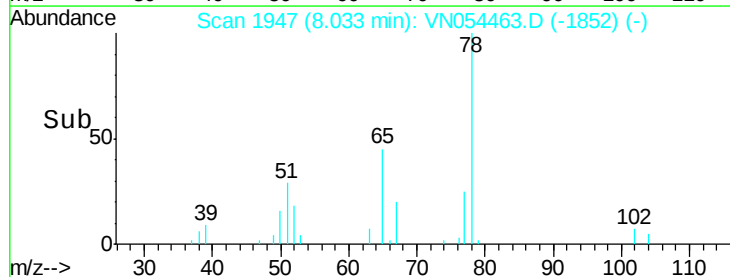
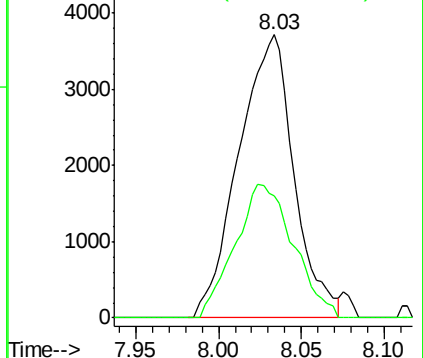
65 100

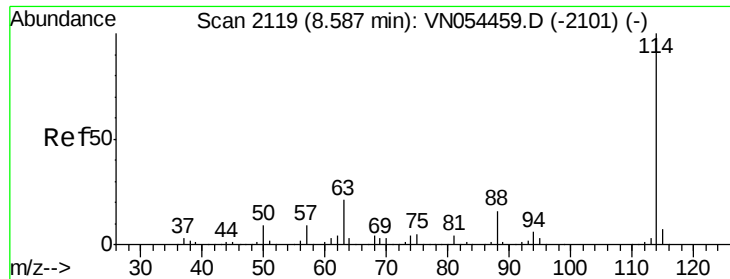
67 49.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054459.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN054459.D (-1925) (-)

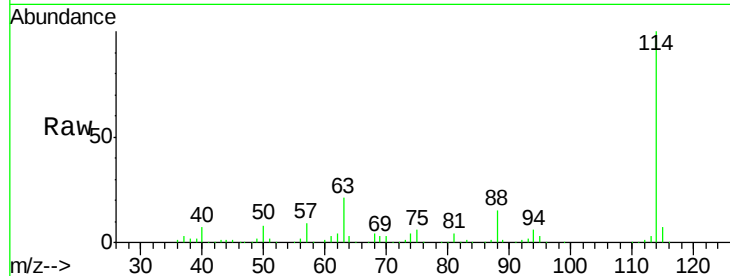




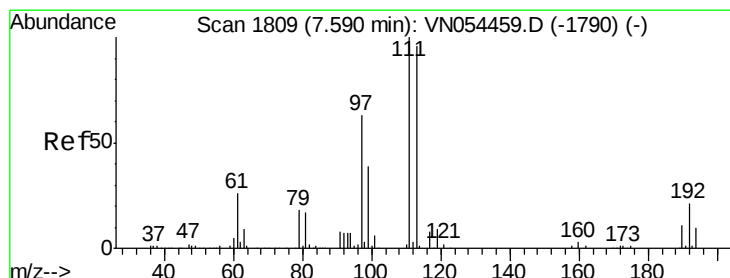
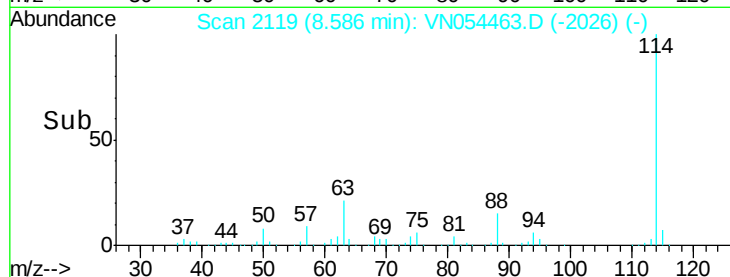
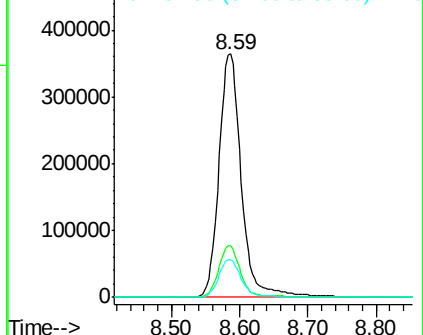
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion:114 Resp: 831129
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 35.2
 88 15.3 0.0 30.2

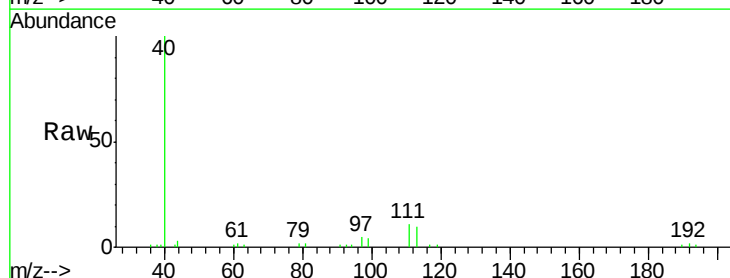


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

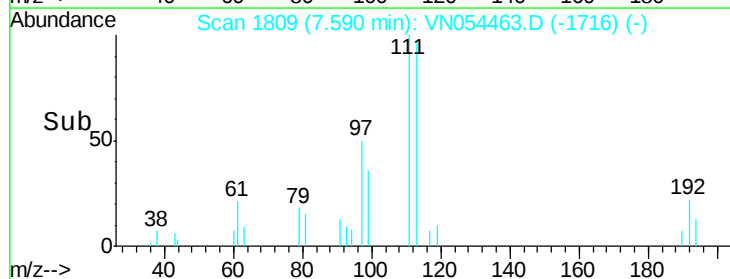
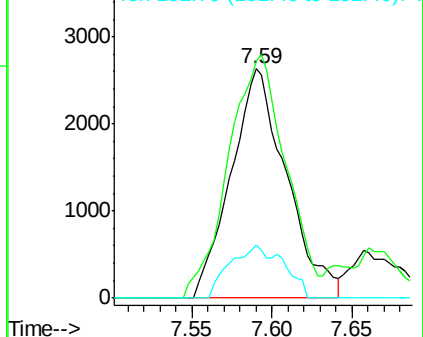


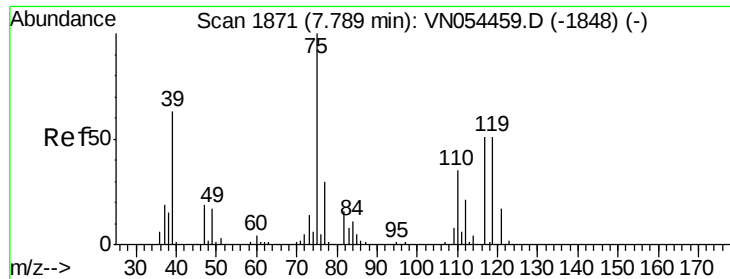
#35
 Dibromofluoromethane
 Concen: 1.17 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion:113 Resp: 6258
 Ion Ratio Lower Upper
 113 100
 111 109.3 82.2 123.4
 192 22.3 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

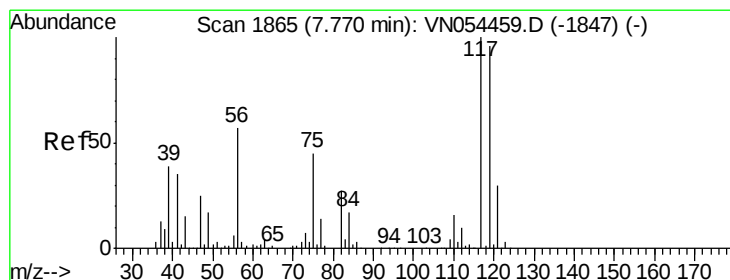
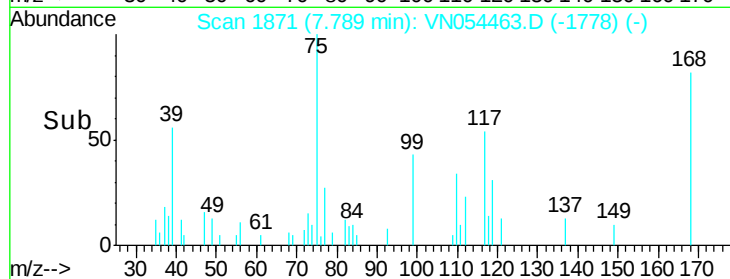
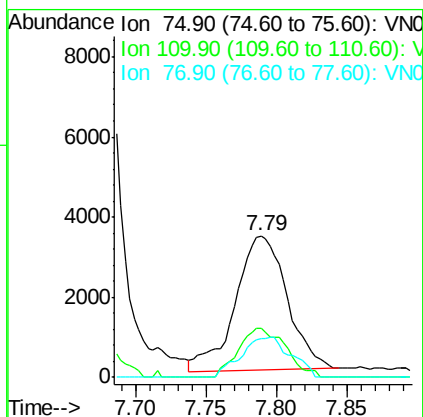
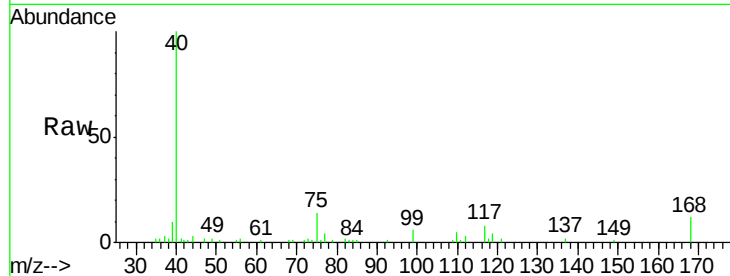




#36
 1,1-Dichloropropene
 Concen: 1.12 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

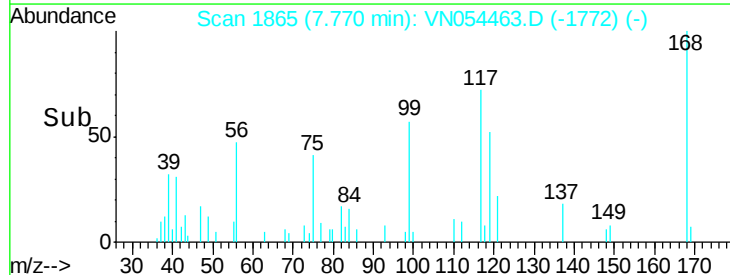
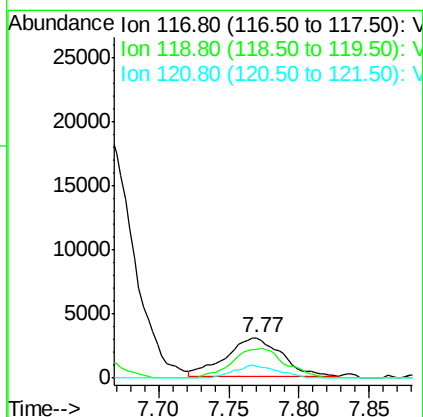
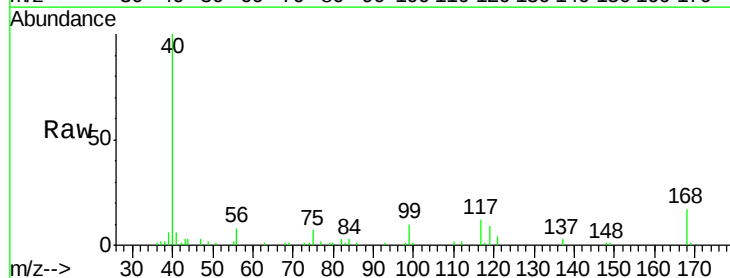
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

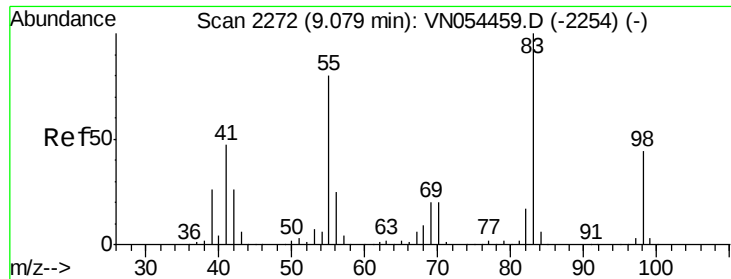
Tot Ion	Ratio	Lower	Upper
75	100		
110	33.2	19.1	57.5
77	28.4	25.0	37.4



#38
 Carbon Tetrachloride
 Concen: 1.11 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	76.5	76.3	114.5
121	32.3	24.6	36.8

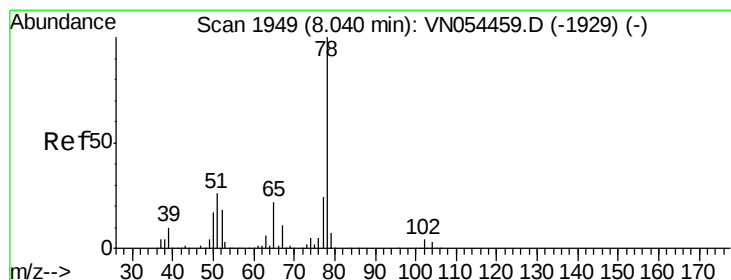
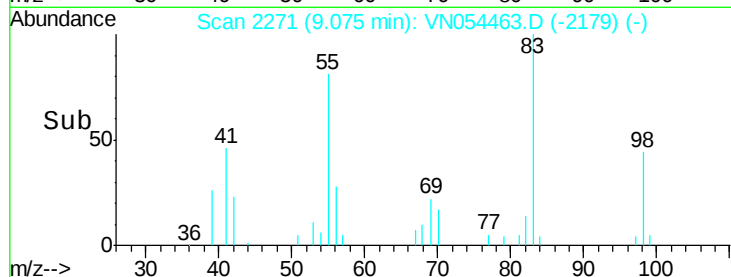
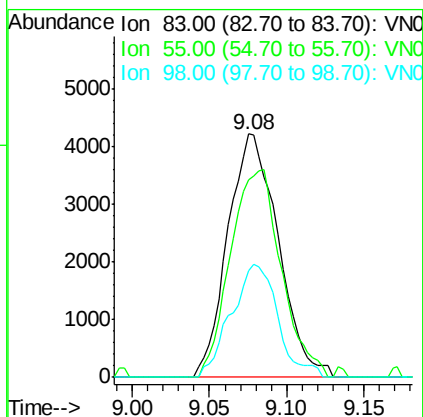
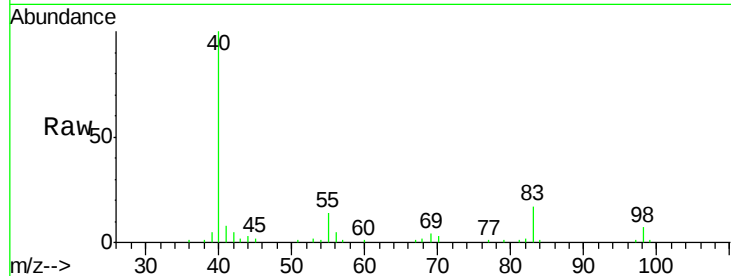




#39
Methvlcvclohexane
Concen: 1.07 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

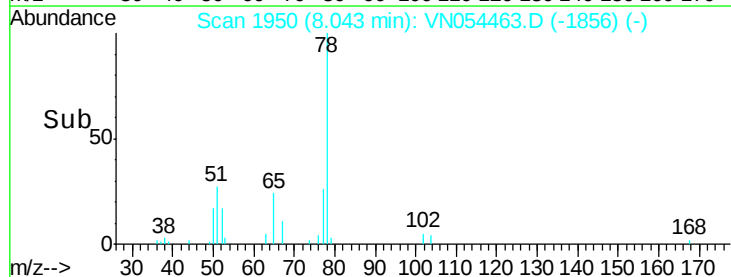
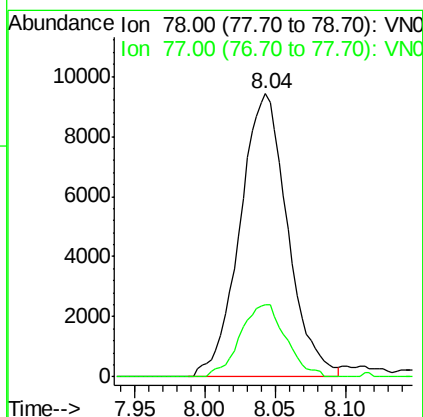
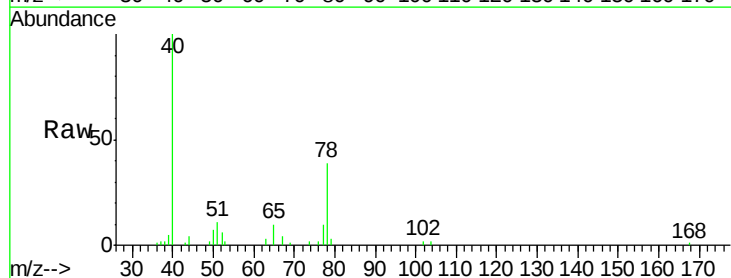
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

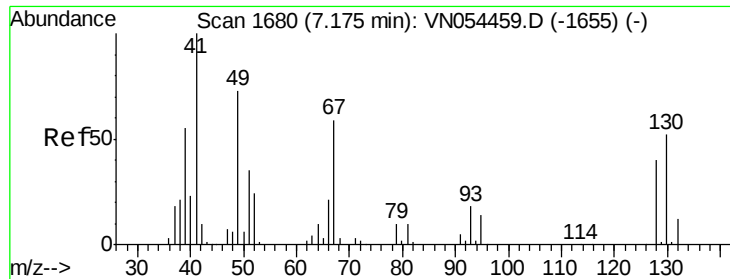
Tot Ion: 83 Resp: 9544
Ion Ratio Lower Upper
83 100
55 81.2 56.6 84.8
98 43.5 38.4 57.6



#40
Benzene
Concen: 1.00 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 78 Resp: 22254
Ion Ratio Lower Upper
78 100
77 25.6 19.1 28.7





#41

Methacrylonitrile

Concen: 1.23 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 41 Resp: 4159

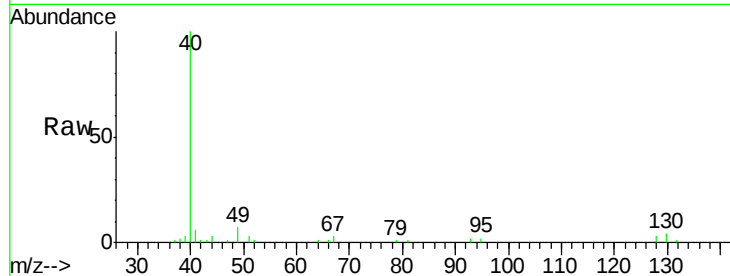
Ion Ratio Lower Upper

41 100

39 0.0 46.8 70.2#

67 49.1 67.0 100.4#

52 9.6 26.5 39.7#

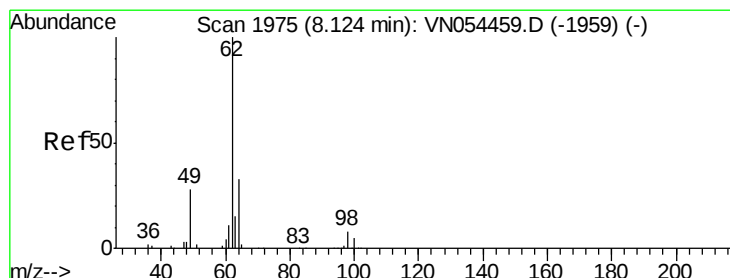
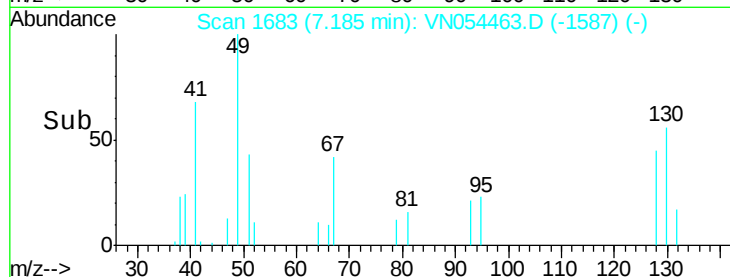
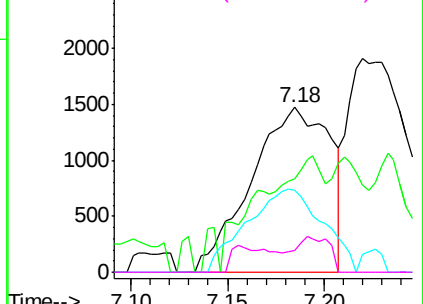


Abundance Ion 41.00 (40.70 to 41.70): VN054459.D (-1655) (-)

Ion 39.00 (38.70 to 39.70): VN054459.D (-1655) (-)

Ion 67.00 (66.70 to 67.70): VN054459.D (-1655) (-)

Ion 52.00 (51.70 to 52.70): VN054459.D (-1655) (-)



#42

1,2-Dichloroethane

Concen: 1.07 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN054463.D

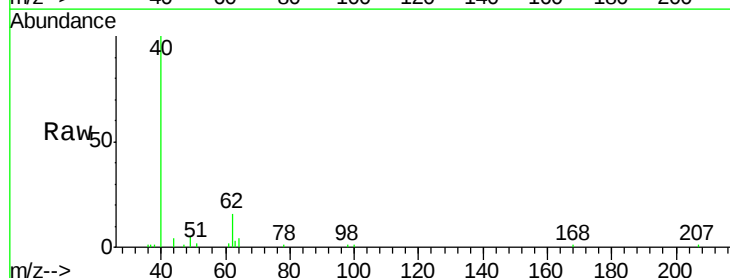
Acq: 20 Mar 2019 14:18

Tgt Ion: 62 Resp: 8658

Ion Ratio Lower Upper

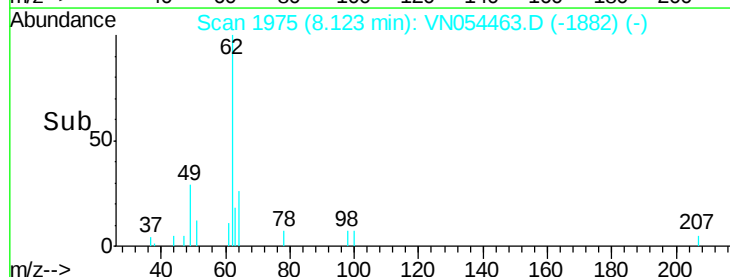
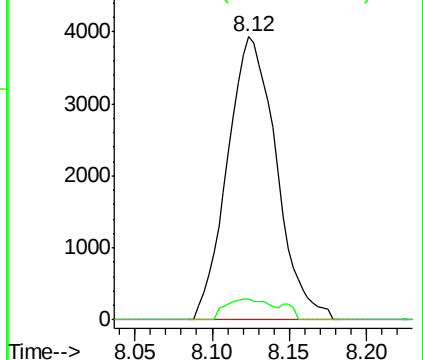
62 100

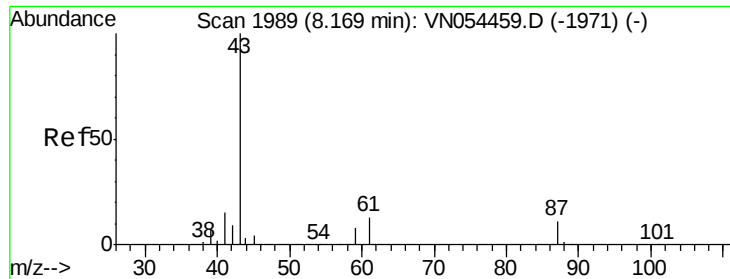
98 6.7 0.0 18.4



Abundance Ion 61.90 (61.60 to 62.60): VN054459.D (-1959) (-)

Ion 97.90 (97.60 to 98.60): VN054459.D (-1959) (-)





#43

Isopropyl Acetate

Concen: 0.91 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

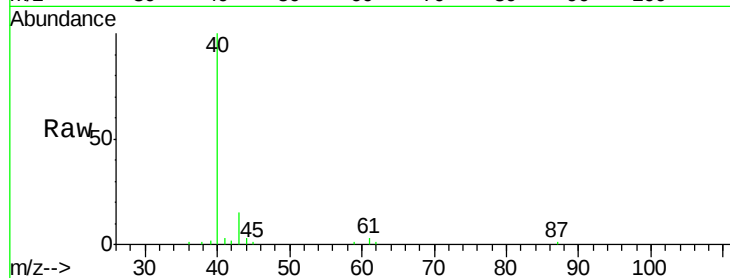
Tot Ion: 43 Resp: 8507

Ion Ratio Lower Upper

43 100

61 18.9 15.8 23.8

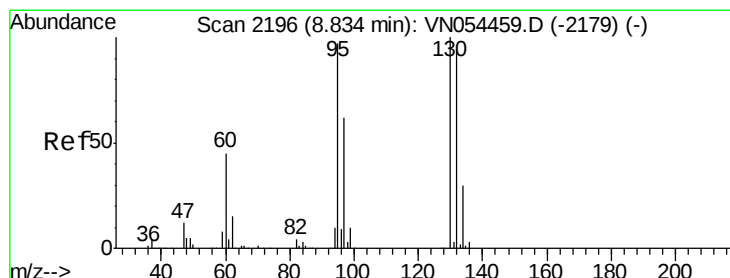
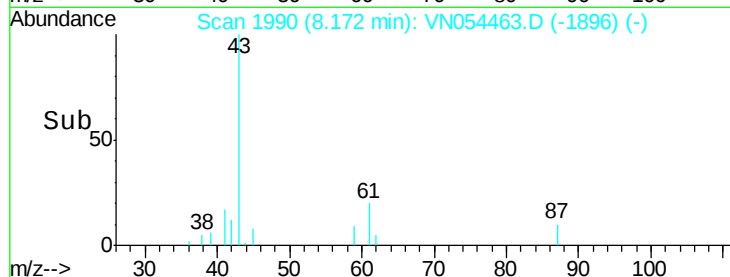
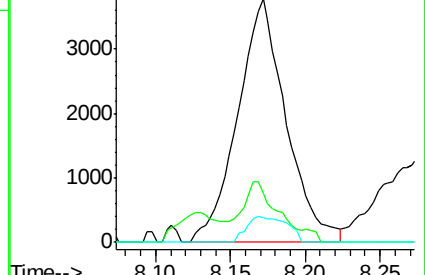
87 8.7 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054459.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054459.D (-1971) (-)



#44

Trichloroethene

Concen: 1.05 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN054463.D

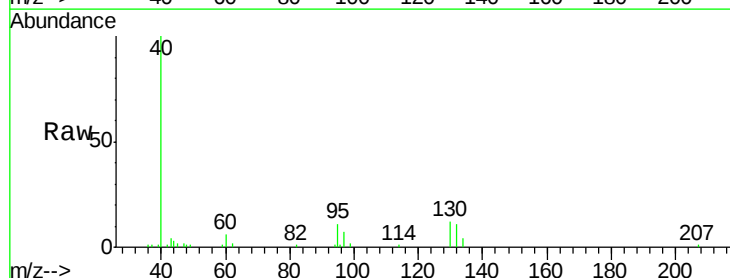
Acq: 20 Mar 2019 14:18

Tgt Ion: 130 Resp: 6495

Ion Ratio Lower Upper

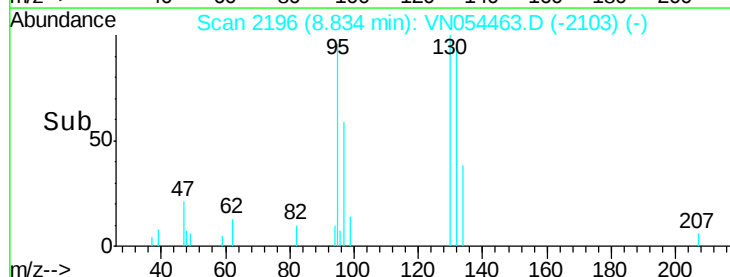
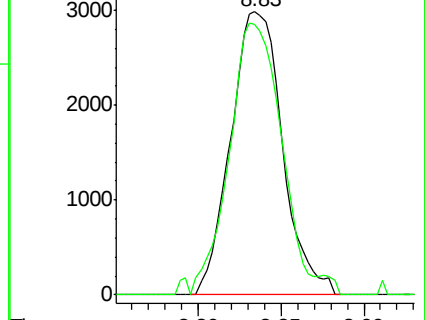
130 100

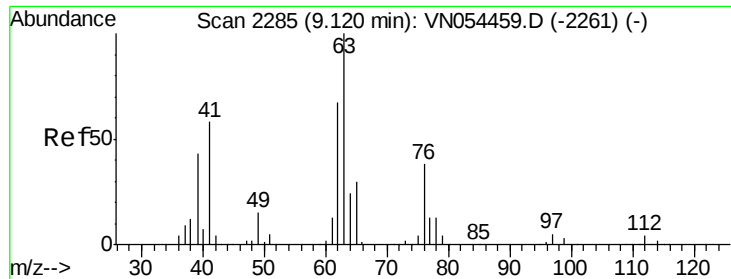
95 95.8 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): VN054459.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN054459.D (-2179) (-)

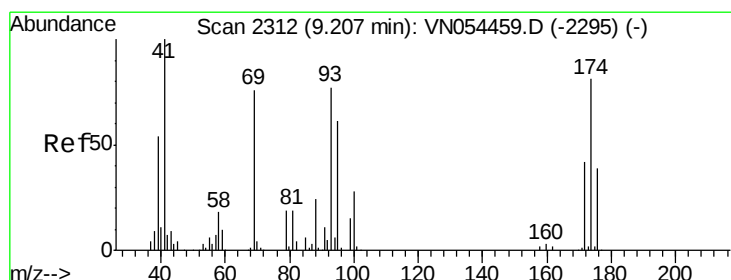
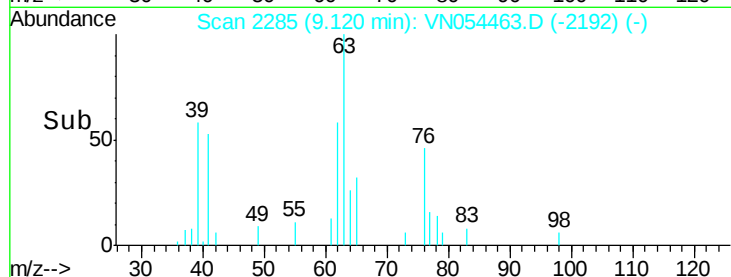
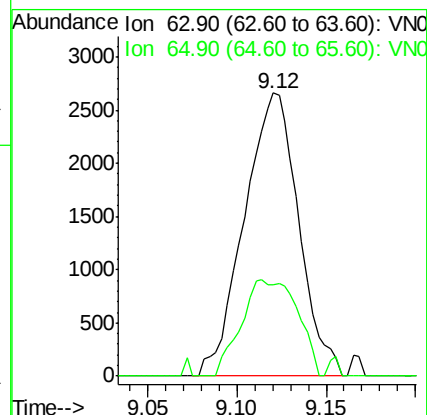
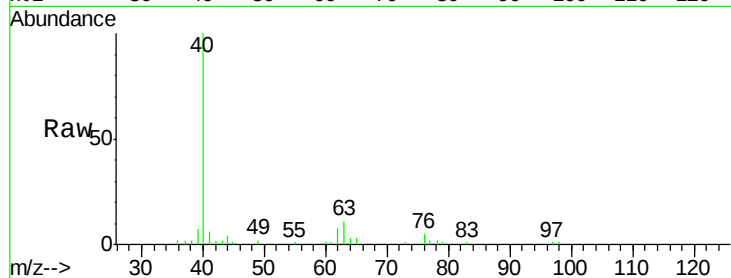




#45
 1,2-Dichloropropane
 Concen: 0.95 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

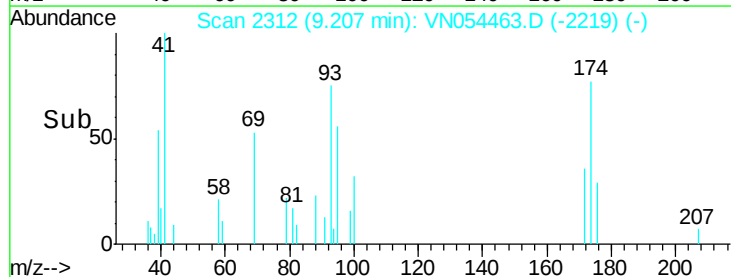
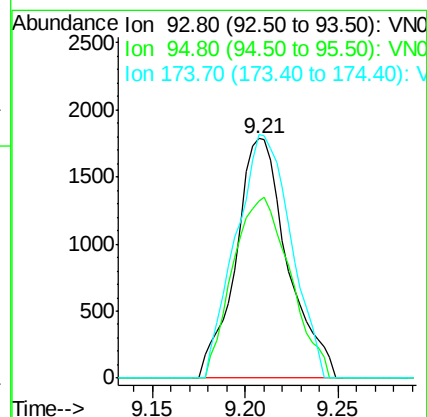
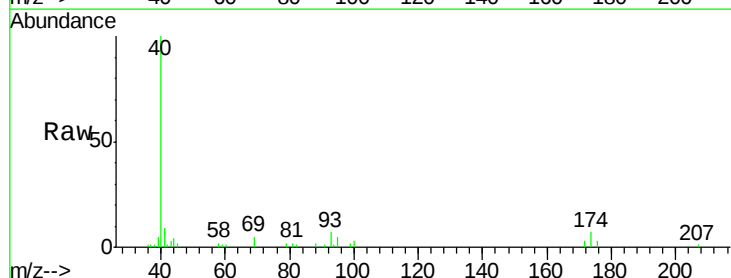
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

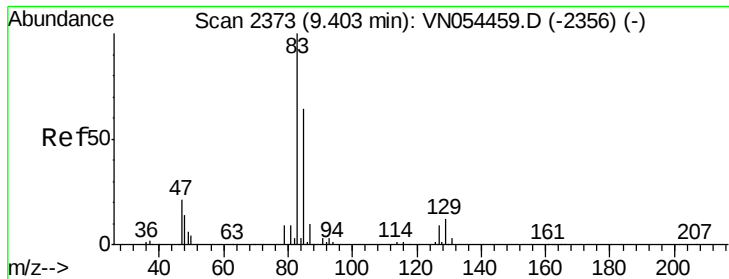
Tot Ion: 63 Resp: 5655
 Ion Ratio Lower Upper
 63 100
 65 32.1 25.0 37.6



#46
 Dibromomethane
 Concen: 0.98 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion: 93 Resp: 3472
 Ion Ratio Lower Upper
 93 100
 95 83.4 66.7 100.1
 174 107.9 98.5 147.7





#47

Bromodichloromethane

Concen: 0.95 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

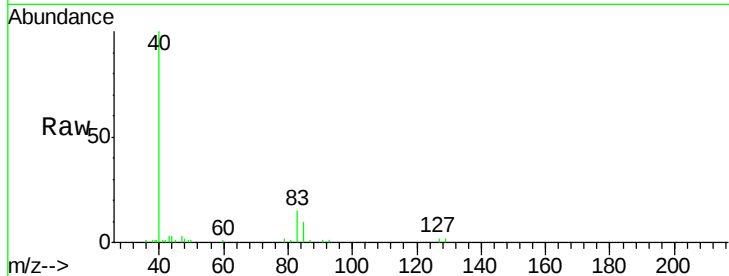
Tot Ion: 83 Resp: 6991

Ion Ratio Lower Upper

83 100

85 64.0 52.8 79.2

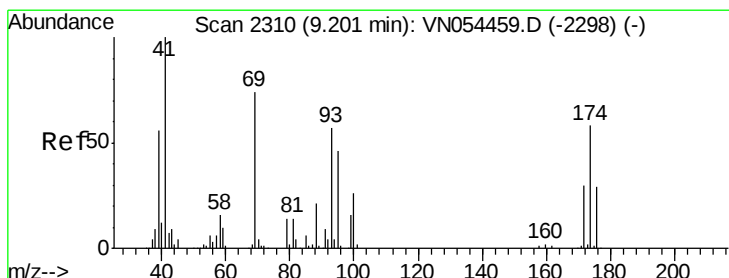
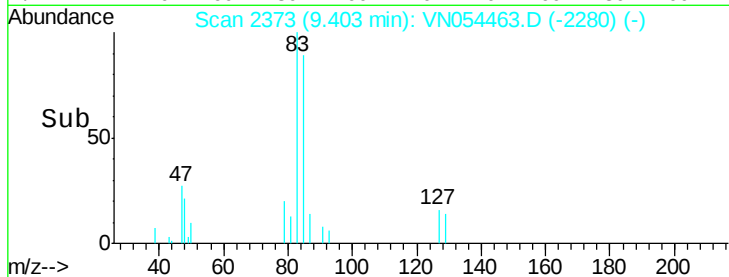
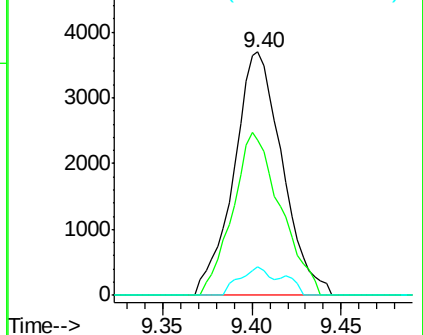
127 11.6 7.4 11.2#



Abundance Ion 82.90 (82.60 to 83.60): VN054463.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN054463.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN054463.D (-2280) (-)



#48

Methyl methacrylate

Concen: 1.03 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

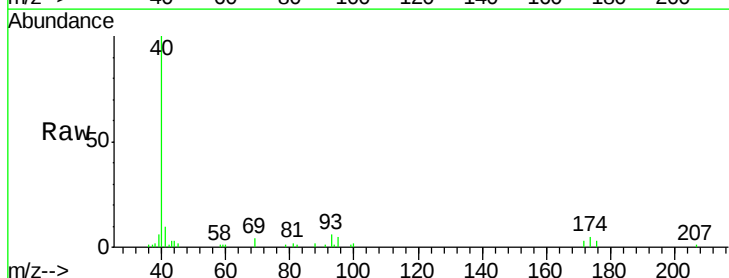
Tgt Ion: 41 Resp: 5224

Ion Ratio Lower Upper

41 100

69 56.3 72.6 108.8#

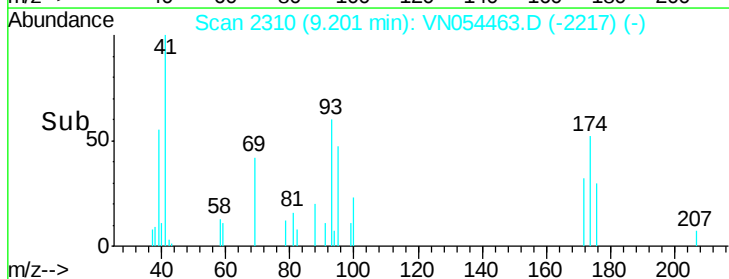
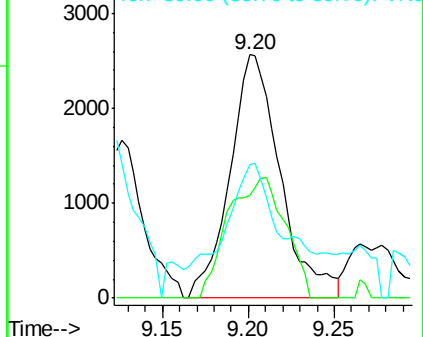
39 42.1 47.5 71.3#

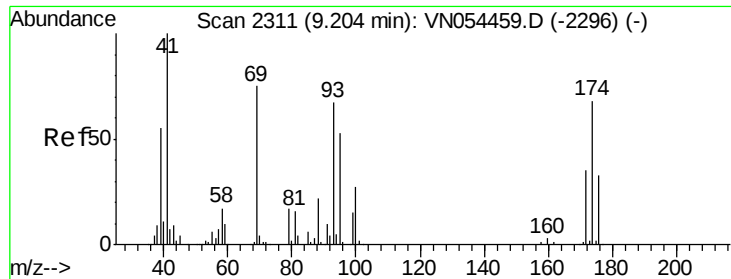


Abundance Ion 41.00 (40.70 to 41.70): VN054463.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN054463.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN054463.D (-2217) (-)

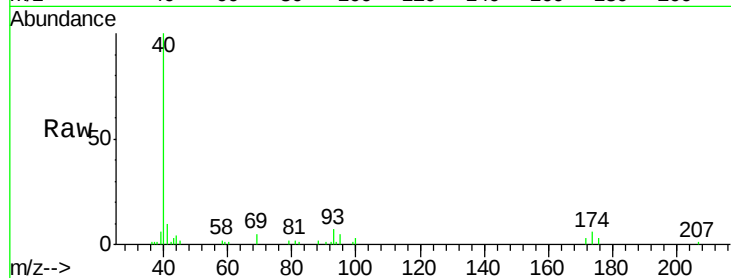




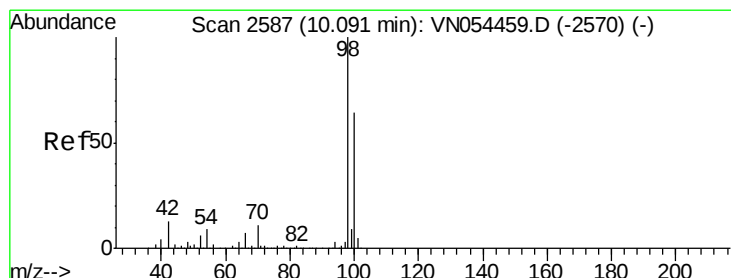
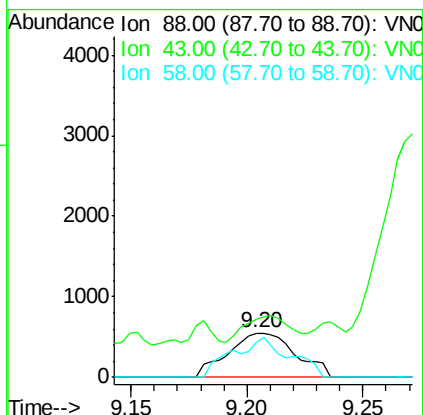
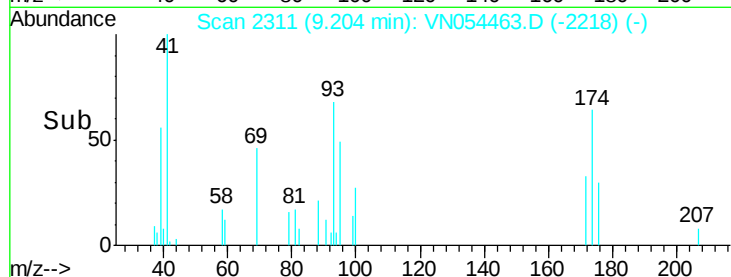
#49
1,4-Dioxane
Concen: 19.54 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 88 Resp: 1107
Ion Ratio Lower Upper
88 100
43 42.3 24.1 36.1#
58 77.4 50.8 76.2#

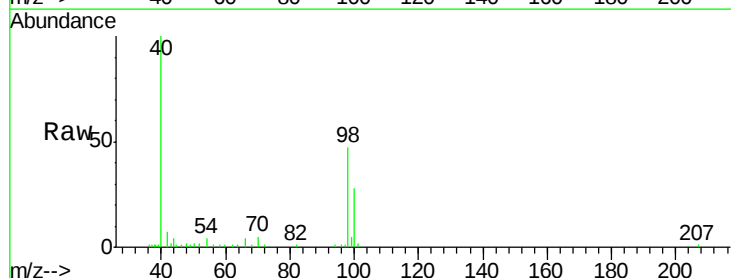


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

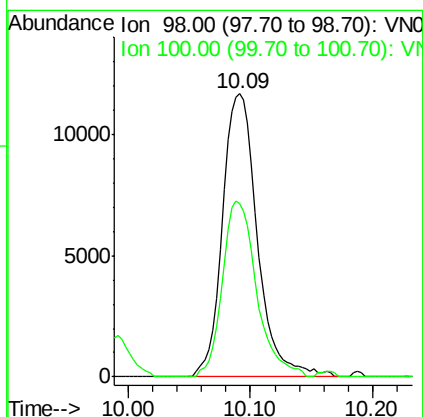
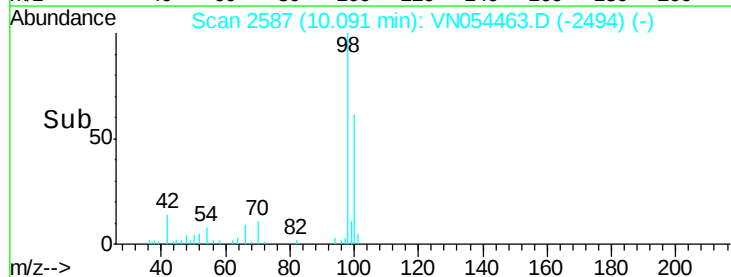


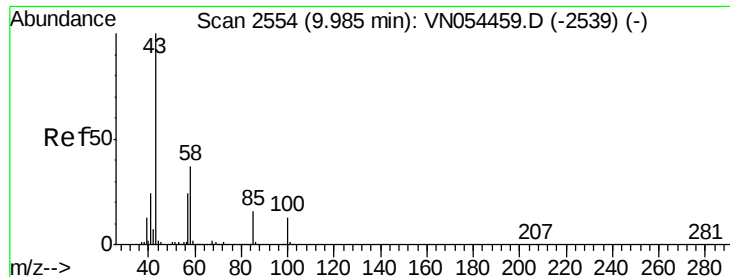
#50
Toluene-d8
Concen: 1.16 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 98 Resp: 23412
Ion Ratio Lower Upper
98 100
100 60.8 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 4.25 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

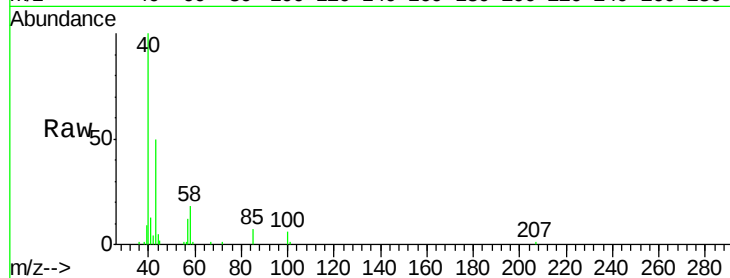
VSTDIC001

Tot Ion: 43 Resp: 21984

Ion Ratio Lower Upper

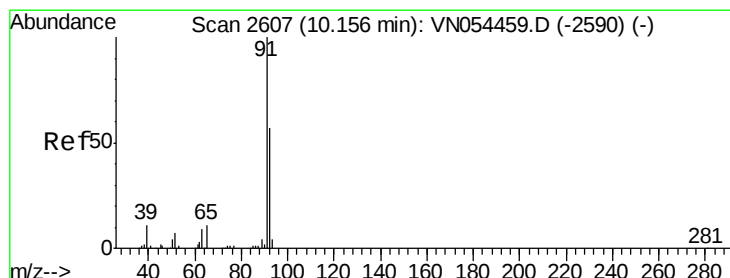
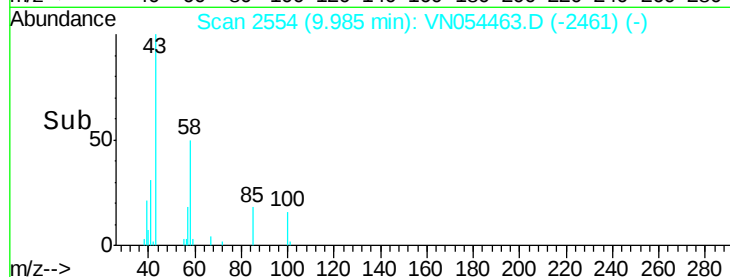
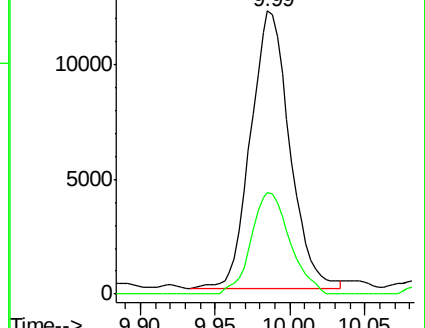
43 100

58 36.2 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2539) (-)



#52

Toluene

Concen: 0.99 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054463.D

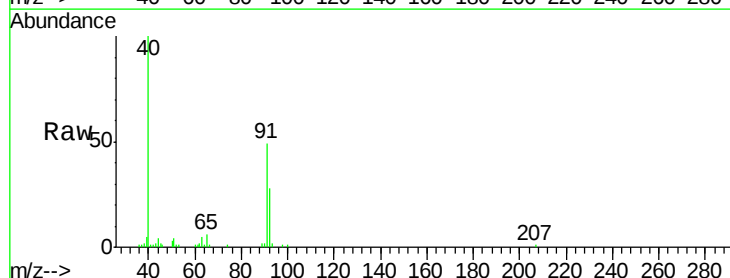
Acq: 20 Mar 2019 14:18

Tgt Ion: 92 Resp: 13584

Ion Ratio Lower Upper

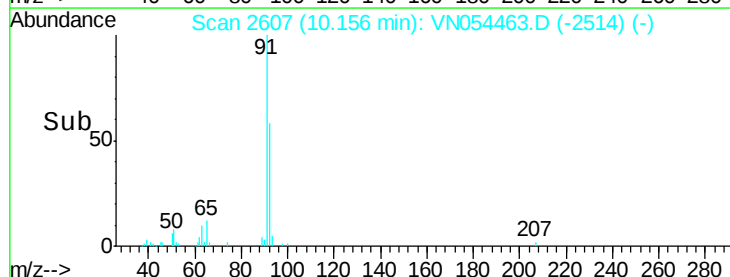
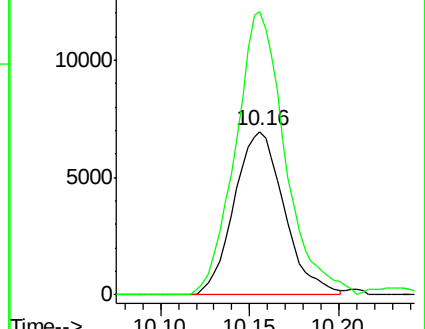
92 100

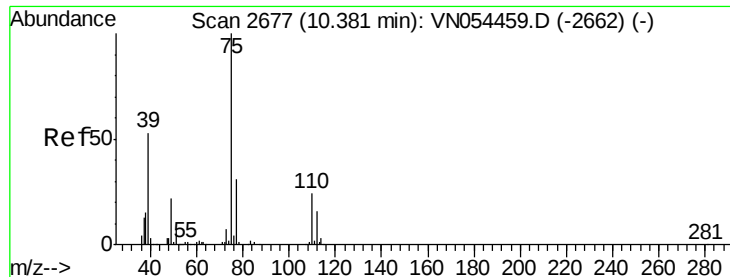
91 171.7 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN054459.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VN054459.D (-2590) (-)





#53

t-1,3-Dichloropropene

Concen: 2.92 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

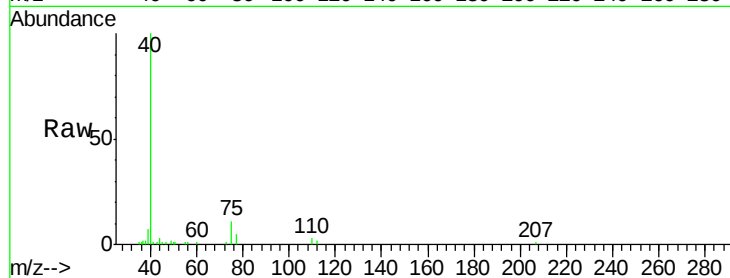
VSTDIC001

Tot Ion: 75 Resp: 5586

Ion Ratio Lower Upper

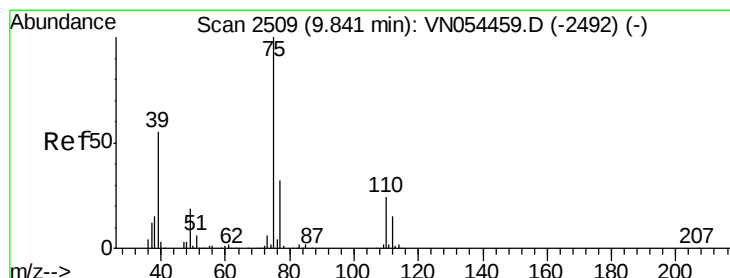
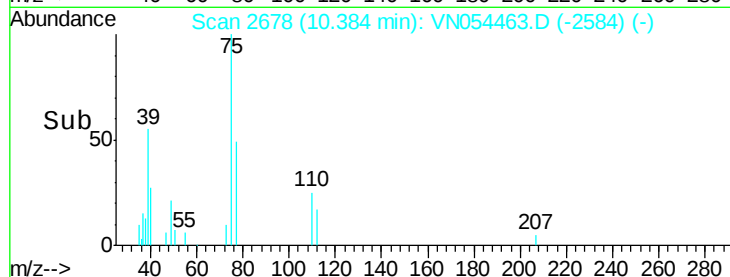
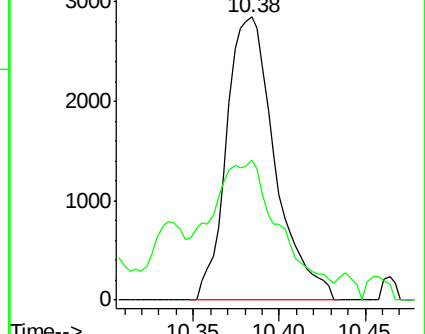
75 100

77 41.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 0.85 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

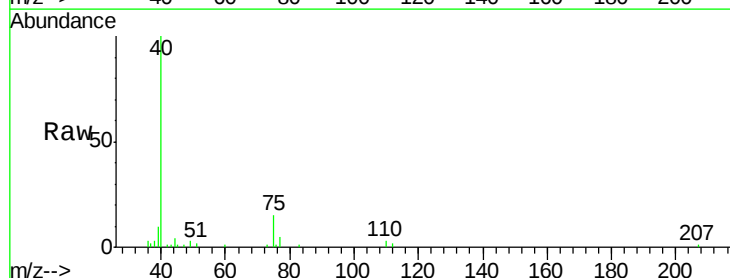
Tgt Ion: 75 Resp: 7177

Ion Ratio Lower Upper

75 100

77 36.3 25.4 38.0

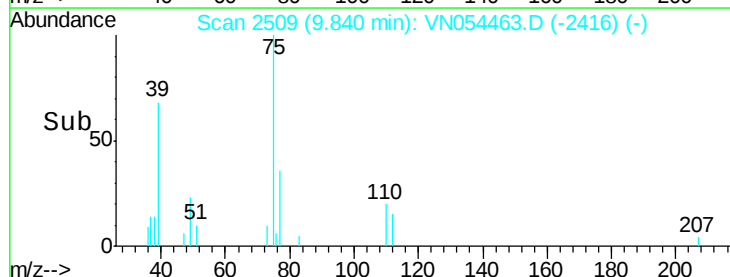
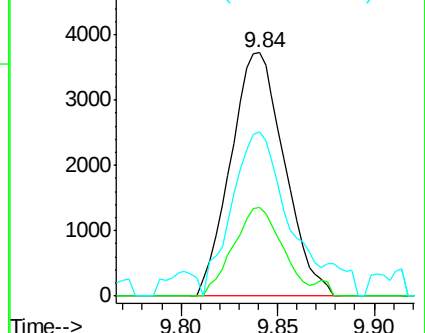
39 58.7 37.2 55.8#

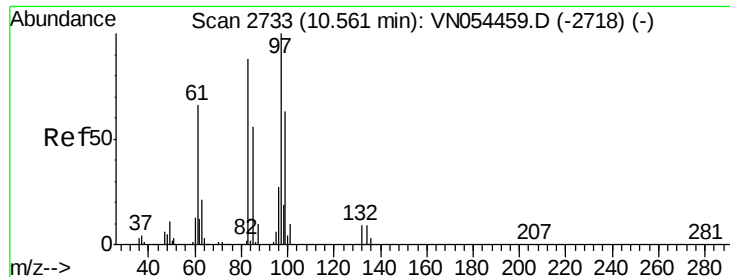


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

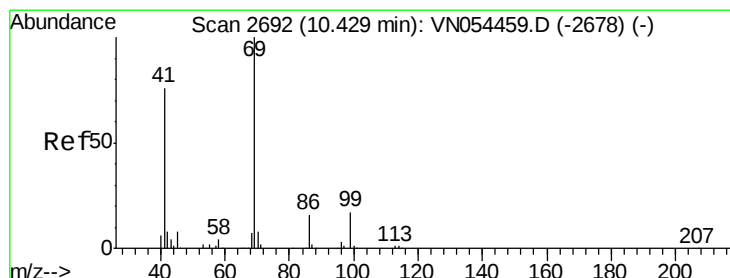
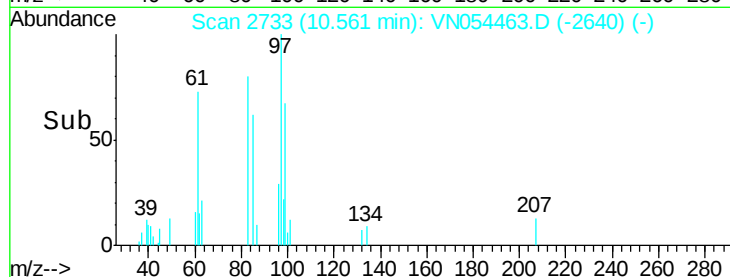
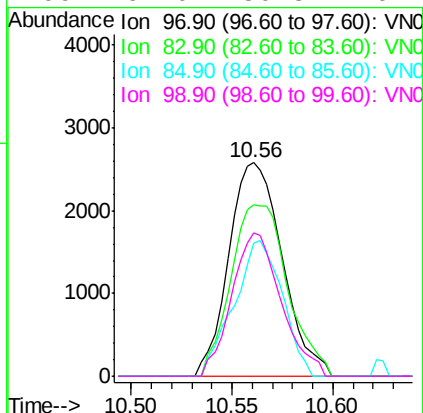
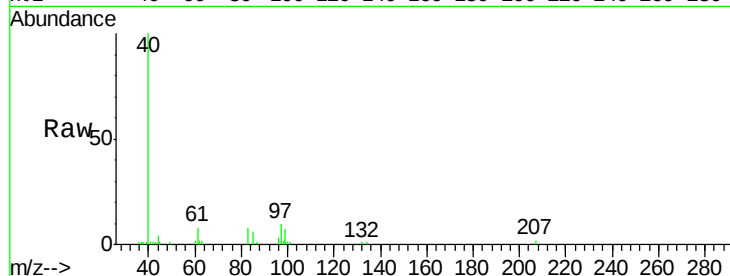




#55
 1,1,2-Trichloroethane
 Concen: 0.97 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

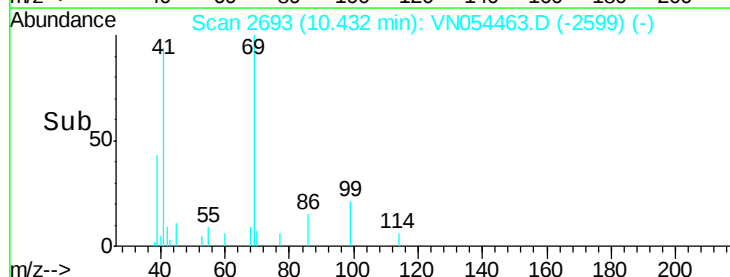
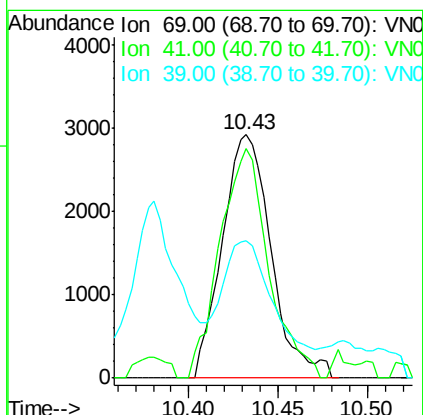
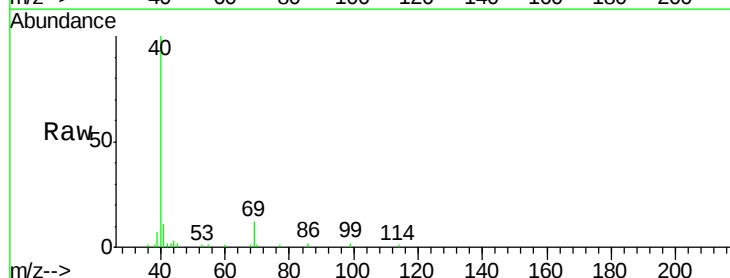
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

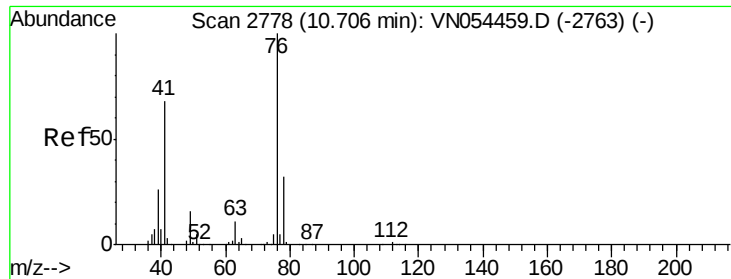
Tot Ion:	97	Resp:	4784
Ion	Ratio	Lower	Upper
97	100		
83	80.4	66.6	100.0
85	62.3	44.4	66.6
99	67.0	50.8	76.2



#56
 Ethyl methacrylate
 Concen: 0.84 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion:	69	Resp:	5550
Ion	Ratio	Lower	Upper
69	100		
41	94.0	49.4	74.2#
39	45.9	28.3	42.5#

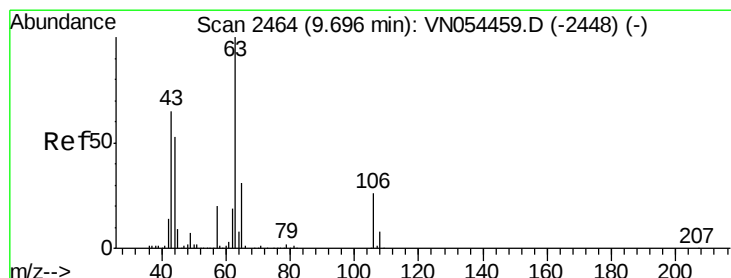
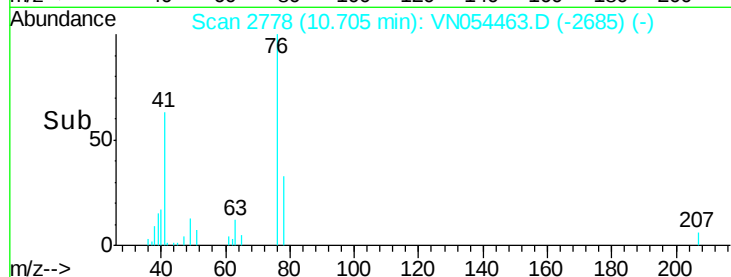
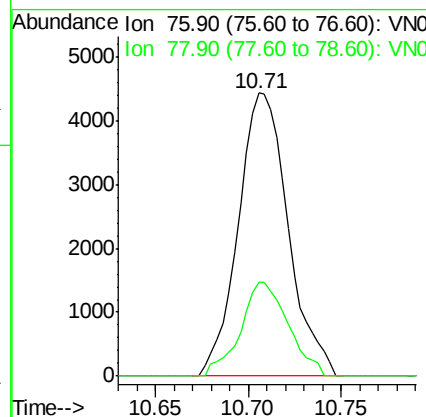
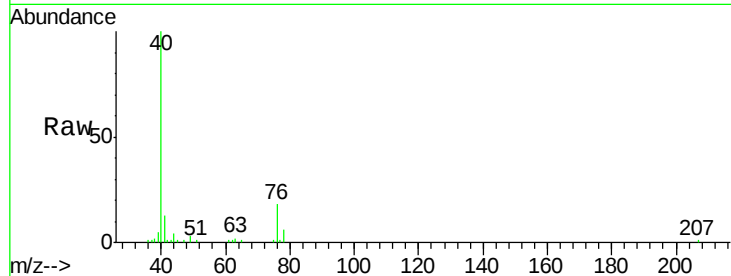




#57
 1,3-Dichloropropane
 Concen: 0.97 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

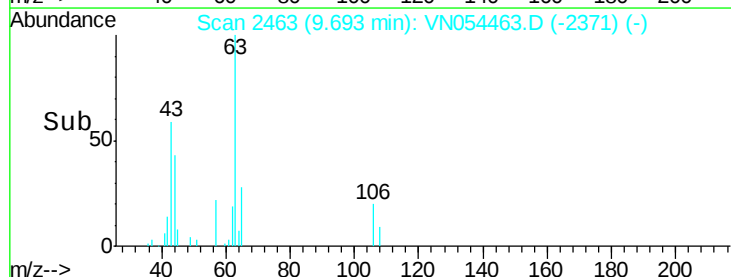
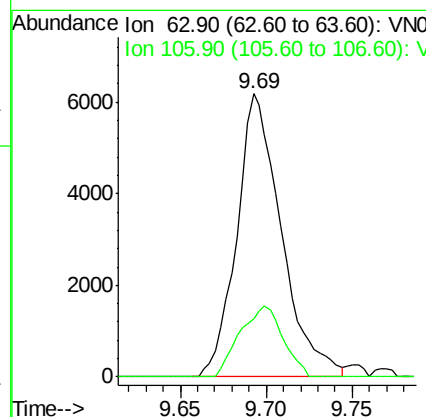
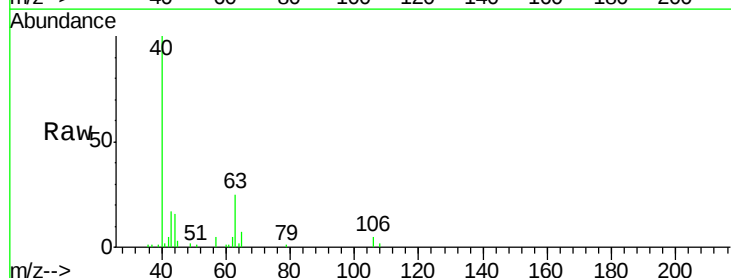
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

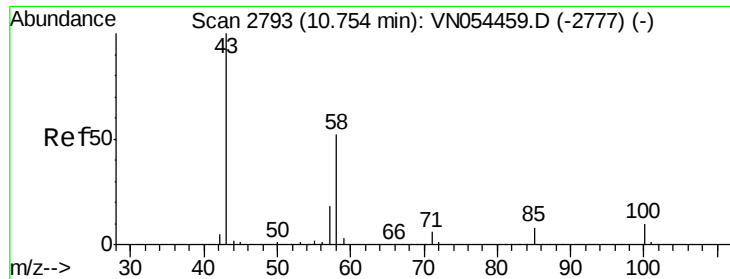
Tot Ion: 76 Resp: 8272
 Ion Ratio Lower Upper
 76 100
 78 31.8 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 4.11 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion: 63 Resp: 11168
 Ion Ratio Lower Upper
 63 100
 106 24.1 24.4 36.6#





#59

2-Hexanone

Concen: 4.28 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

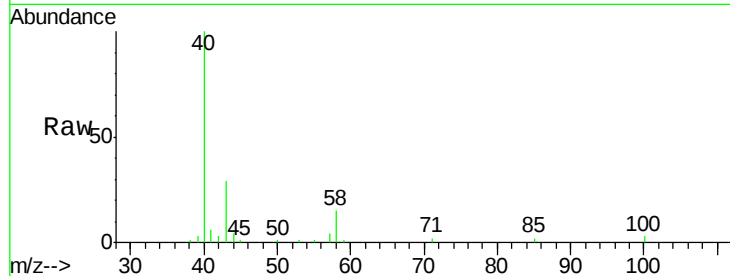
VSTDIC001

Tot Ion: 43 Resp: 14475

Ion Ratio Lower Upper

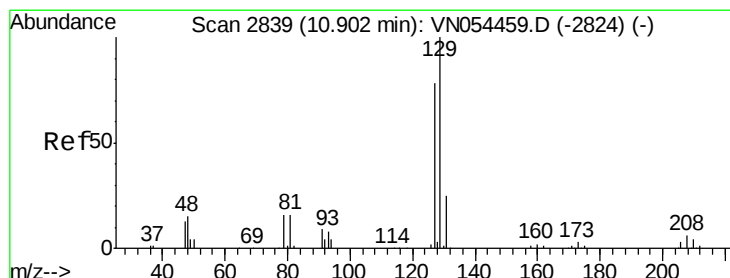
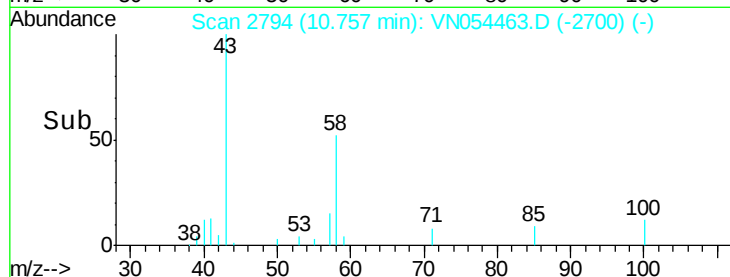
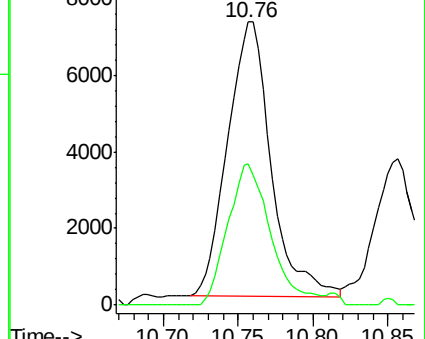
43 100

58 50.9 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2777) (-)



#60

Dibromochloromethane

Concen: 0.81 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN054463.D

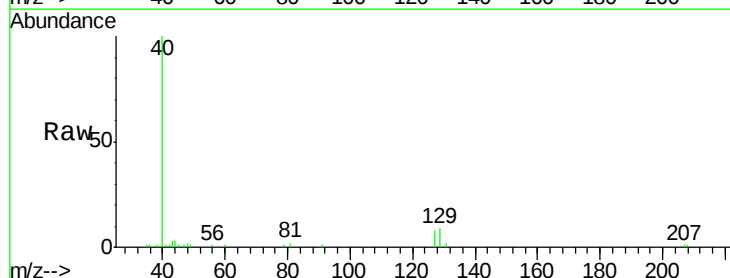
Acq: 20 Mar 2019 14:18

Tgt Ion: 129 Resp: 4240

Ion Ratio Lower Upper

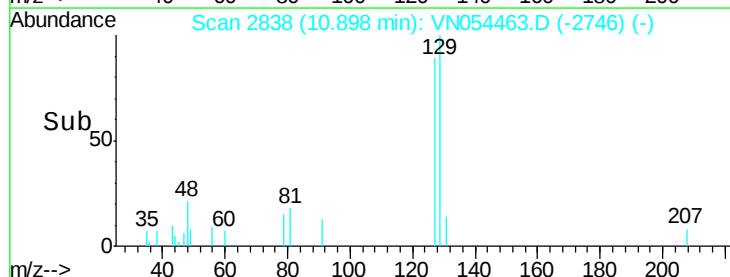
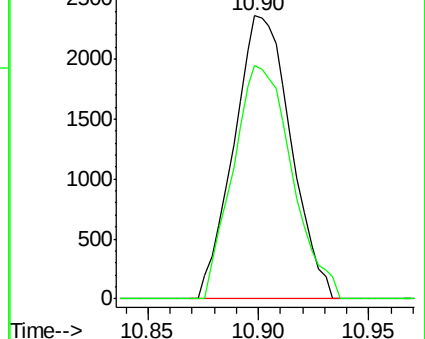
129 100

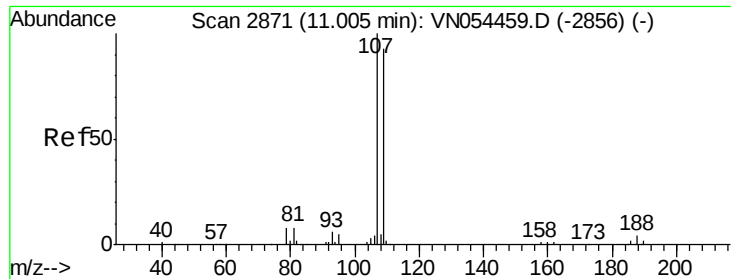
127 84.8 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): VN054459.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN054459.D (-2824) (-)





#61

1,2-Dibromoethane

Concen: 0.89 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

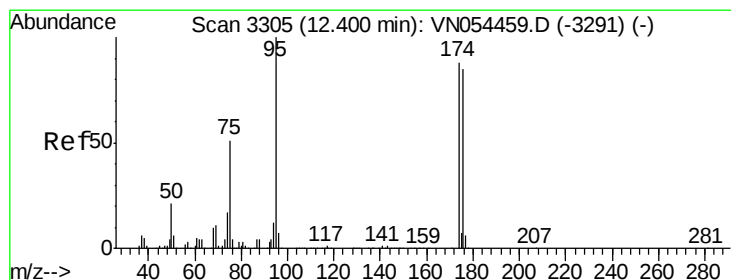
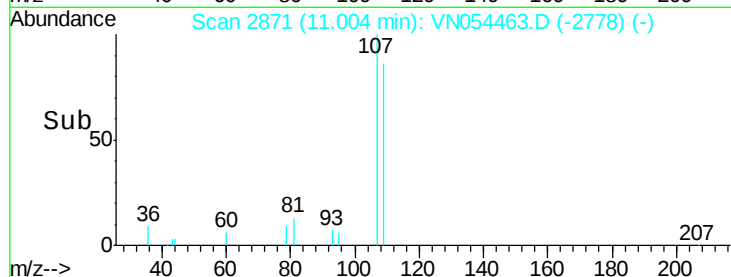
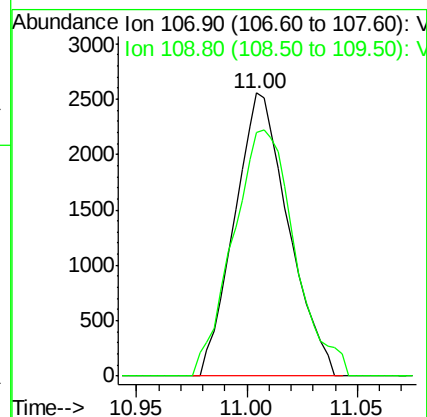
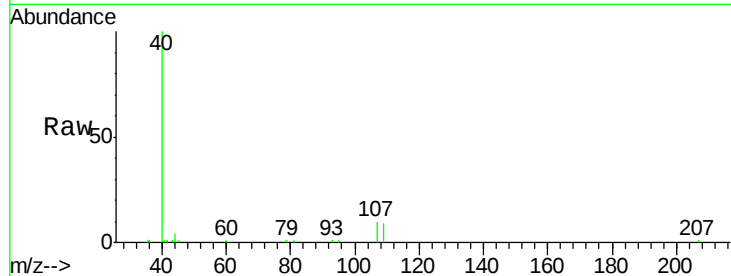
VSTDIC001

Tot Ion:107 Resp: 4337

Ion Ratio Lower Upper

107 100

109 99.7 75.9 113.9



#62

4-Bromofluorobenzene

Concen: 1.07 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

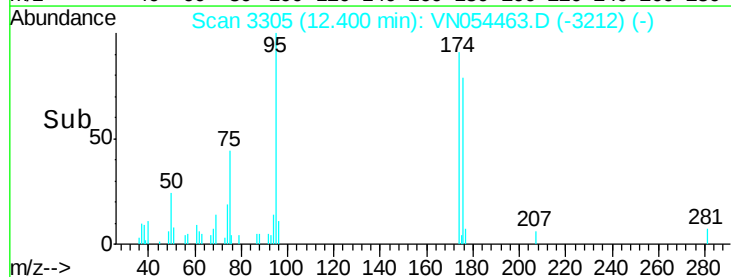
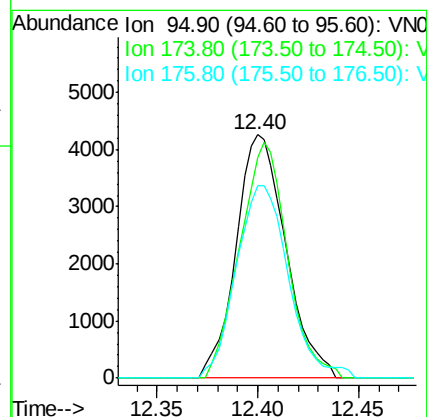
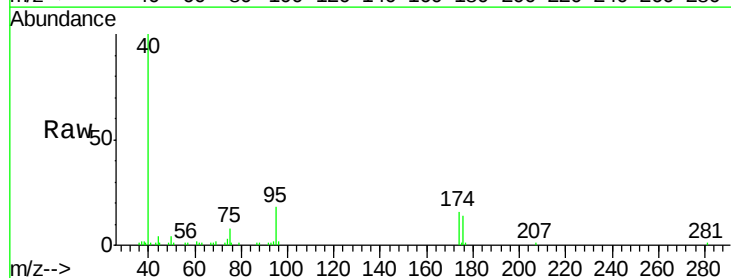
Tgt Ion: 95 Resp: 7334

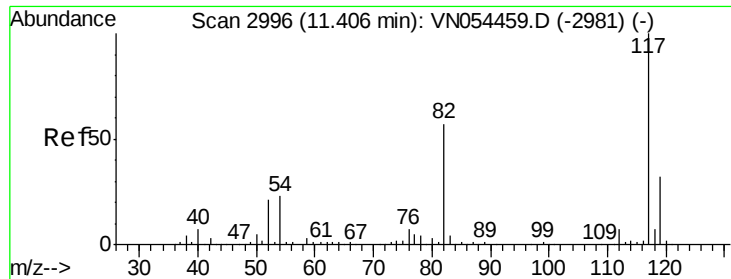
Ion Ratio Lower Upper

95 100

174 93.0 0.0 191.0

176 83.4 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

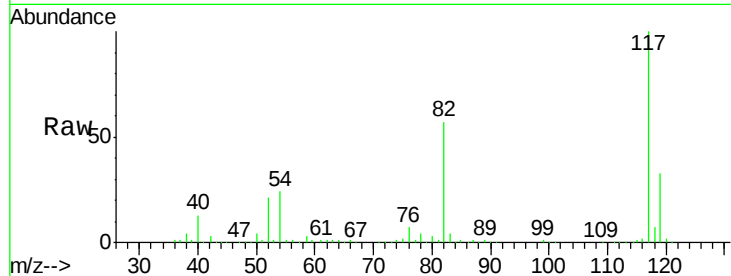
Tot Ion:117 Resp: 693125

Ion Ratio Lower Upper

117 100

82 56.7 40.0 60.0

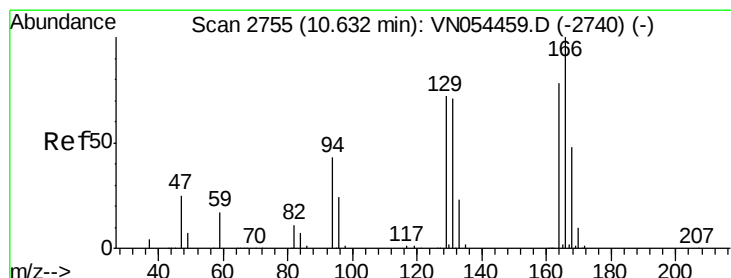
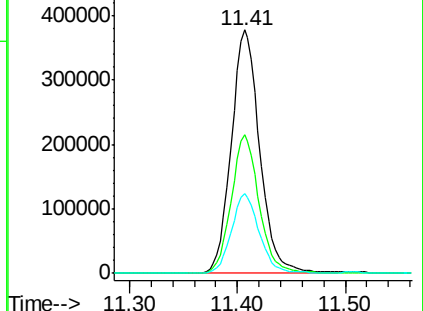
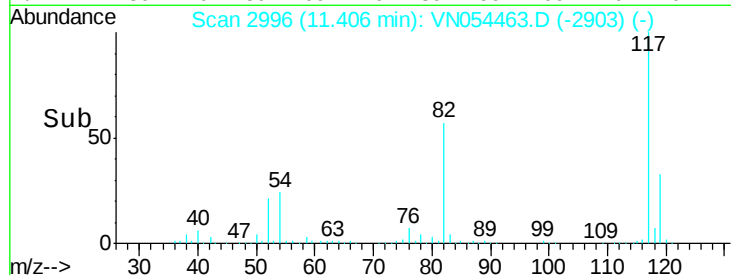
119 32.7 25.8 38.6



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: 1.11 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Tgt Ion:164 Resp: 6409

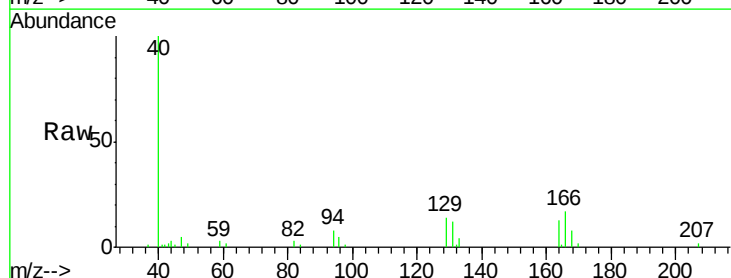
Ion Ratio Lower Upper

164 100

166 129.5 103.9 155.9

129 105.0 71.1 106.7

131 87.5 68.2 102.4

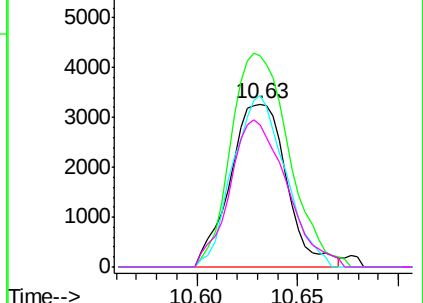
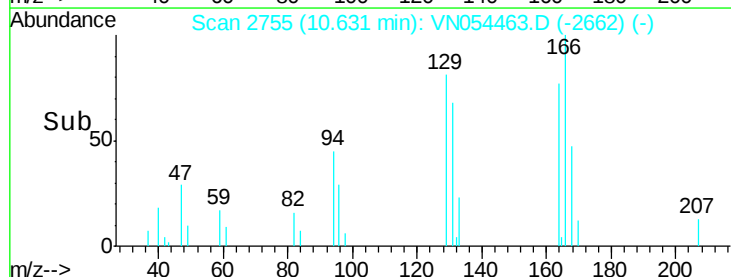


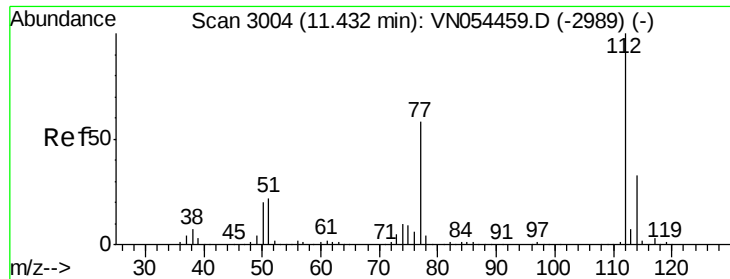
Abundance Ion 163.80 (163.50 to 164.50): V

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: 1.02 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

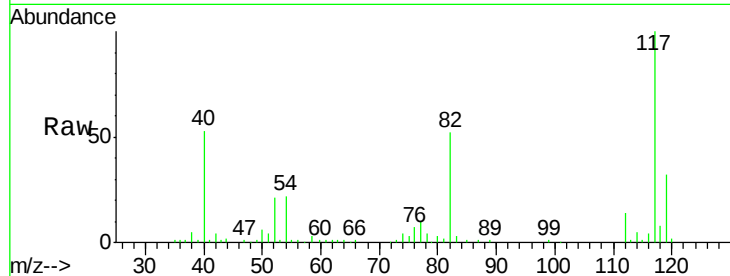
VSTDIC001

Tot Ion:112 Resp: 14439

Ion Ratio Lower Upper

112 100

114 33.0 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

8000

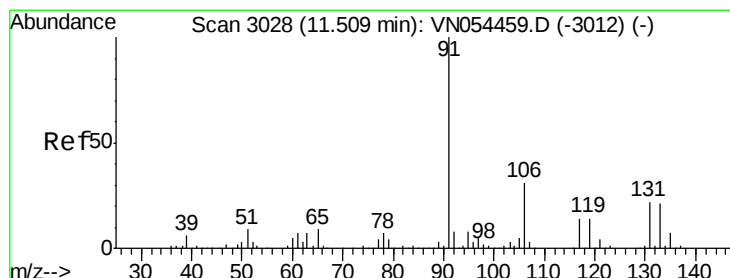
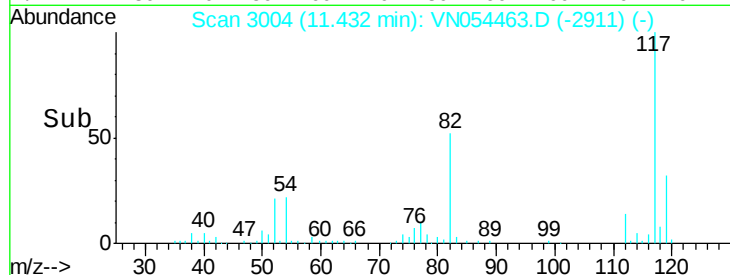
6000

4000

2000

0

Time--> 11.35 11.40 11.45 11.50



#66

1,1,1,2-Tetrachloroethane

Concen: 0.89 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

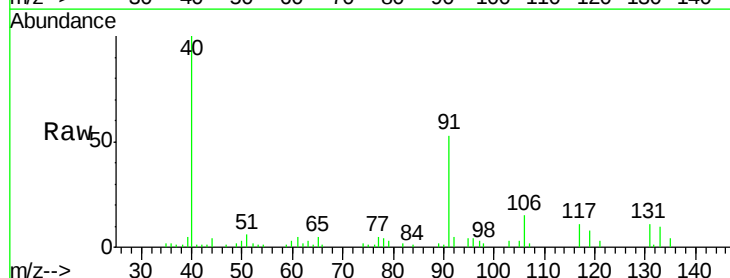
Tgt Ion:131 Resp: 4491

Ion Ratio Lower Upper

131 100

133 109.1 47.6 142.9

119 0.0 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

5000

4000

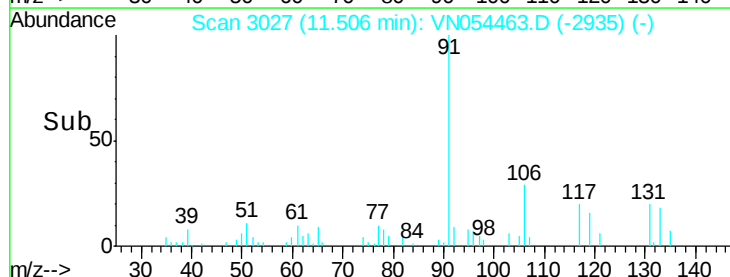
3000

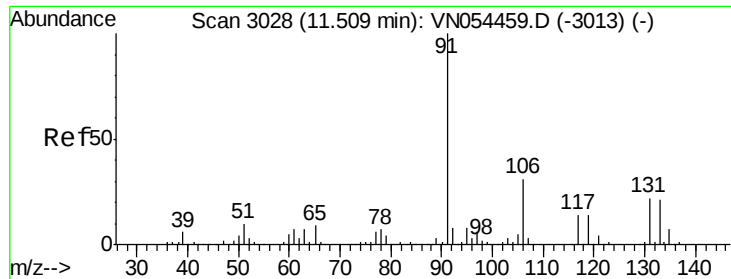
2000

1000

0

Time--> 11.45 11.50 11.55





#67

Ethyl Benzene

Concen: 1.01 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

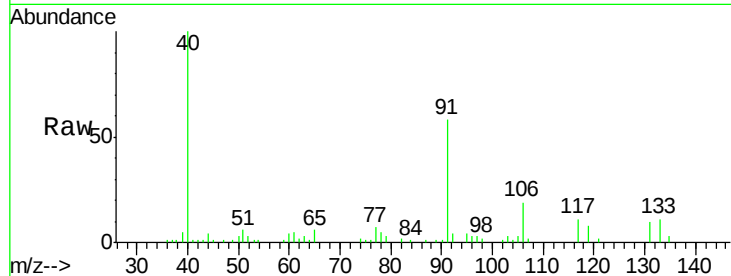
VSTDIC001

Tot Ion: 91 Resp: 25222

Ion Ratio Lower Upper

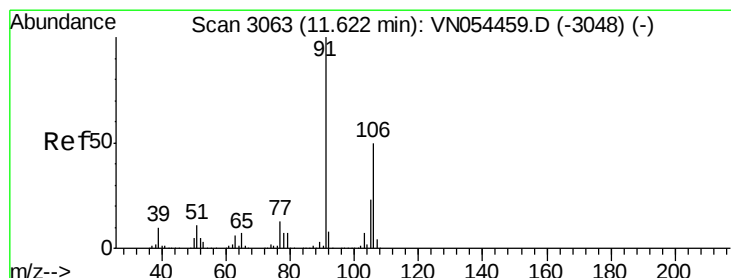
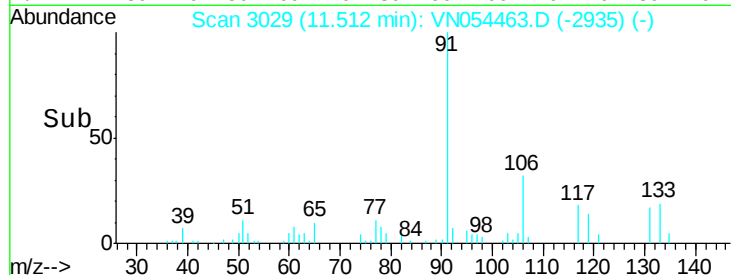
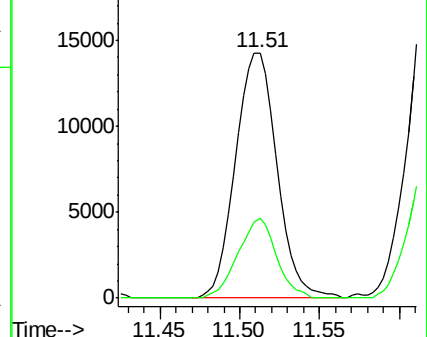
91 100

106 32.3 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3013) (-)

Ion 106.00 (105.70 to 106.70): VN054459.D (-3013) (-)



#68

m/p-Xylenes

Concen: 1.96 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054463.D

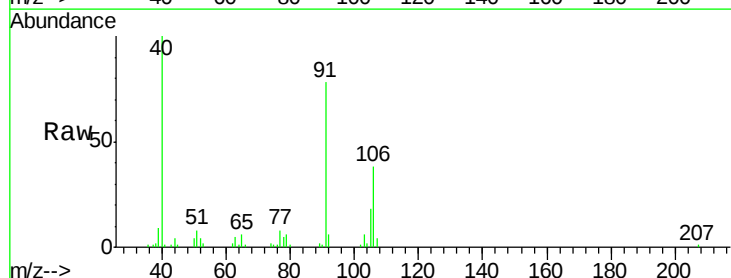
Acq: 20 Mar 2019 14:18

Tgt Ion: 106 Resp: 18471

Ion Ratio Lower Upper

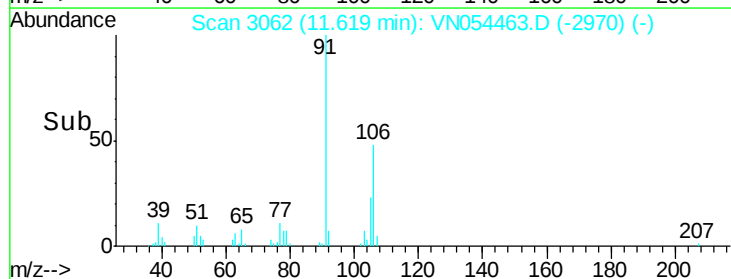
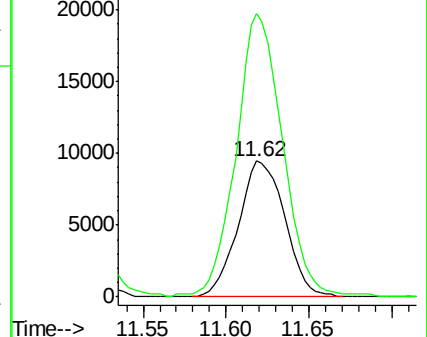
106 100

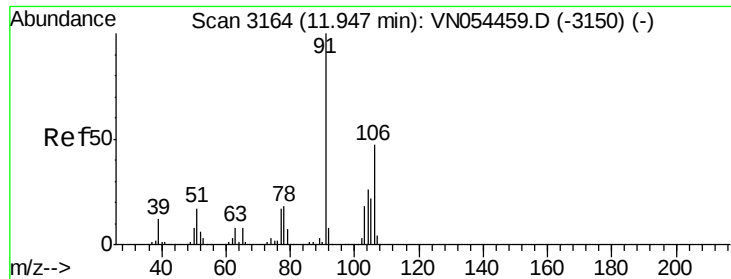
91 208.7 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): VN054459.D (-3048) (-)

Ion 91.00 (90.70 to 91.70): VN054459.D (-3048) (-)

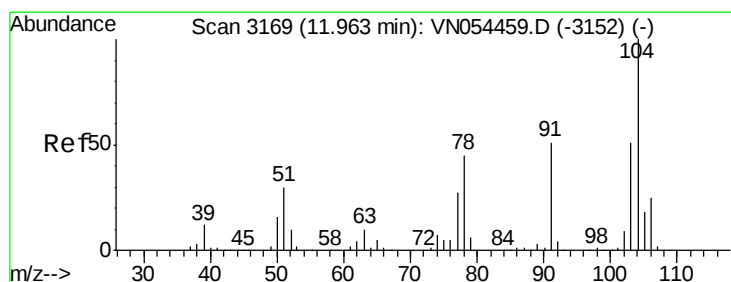
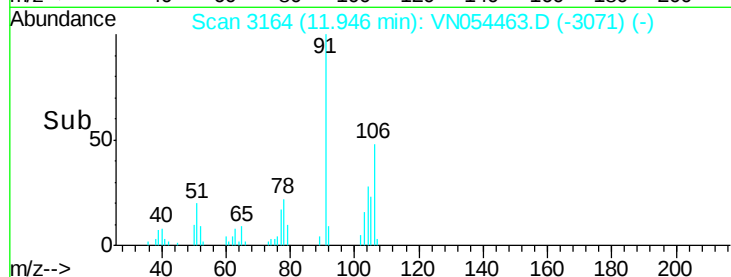
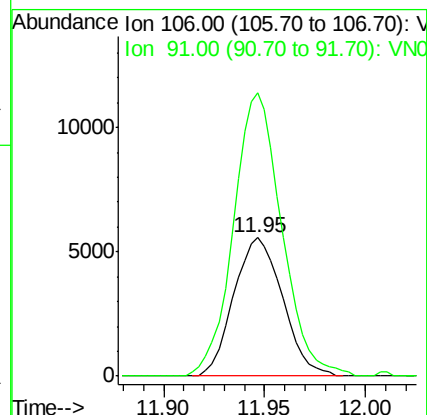
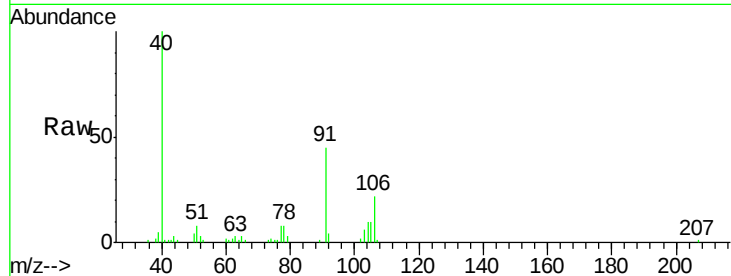




#69
o-Xylene
Concen: 1.02 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

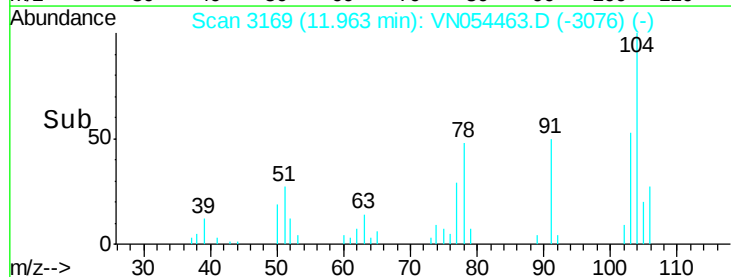
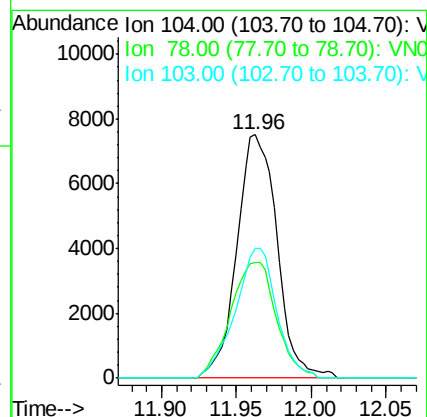
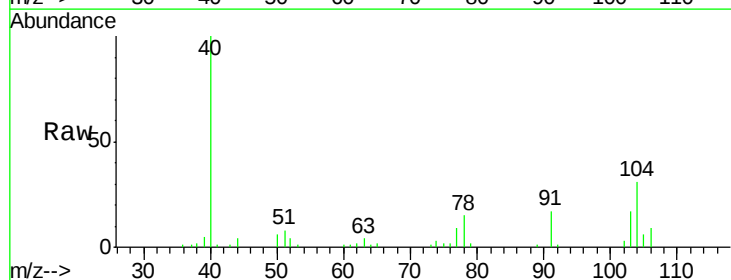
Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

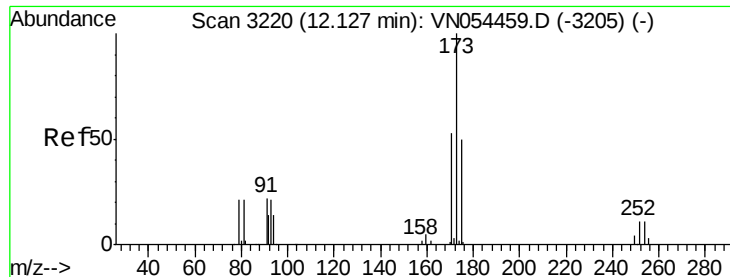
Tot Ion:106 Resp: 9440
Ion Ratio Lower Upper
106 100
91 201.9 105.7 317.1



#70
Styrene
Concen: 0.94 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion:104 Resp: 14070
Ion Ratio Lower Upper
104 100
78 54.1 38.2 57.2
103 55.2 44.4 66.6





#71

Bromoform

Concen: 2.86 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

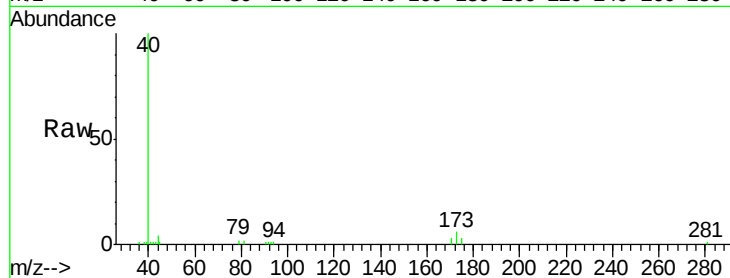
Tot Ion:173 Resp: 2346

Ion Ratio Lower Upper

173 100

175 42.9 24.4 73.2

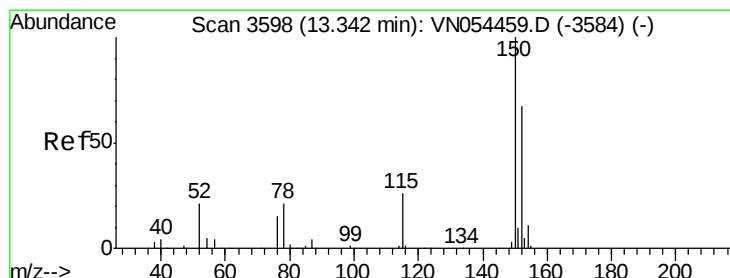
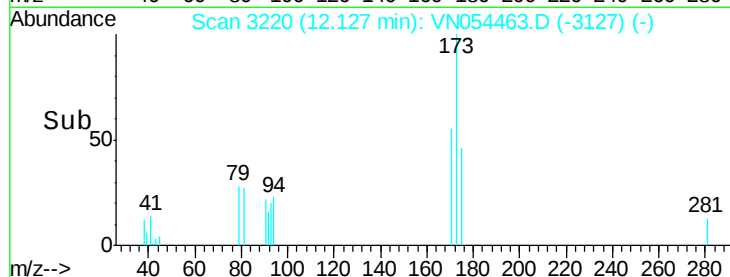
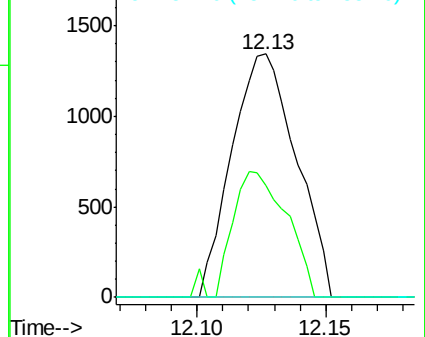
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

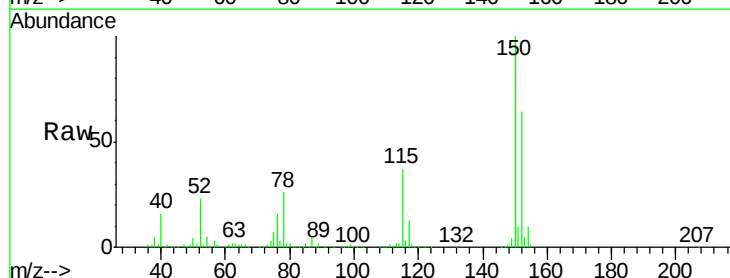
Tgt Ion:152 Resp: 254046

Ion Ratio Lower Upper

152 100

115 56.6 27.2 81.6

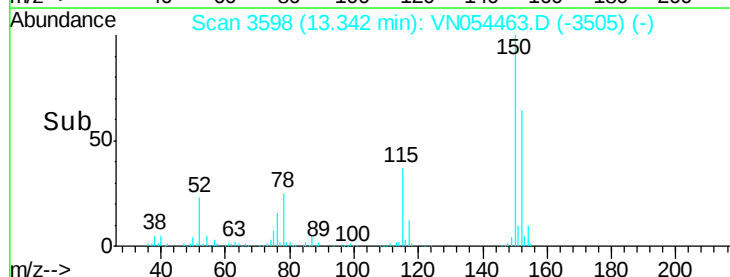
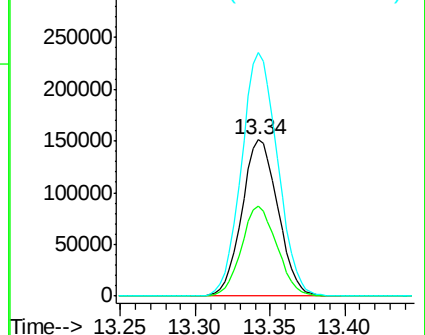
150 156.1 0.0 349.2

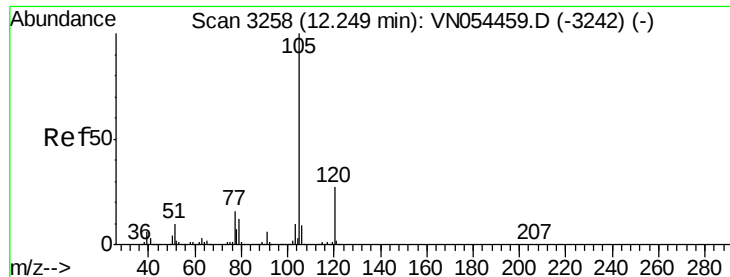


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.19 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

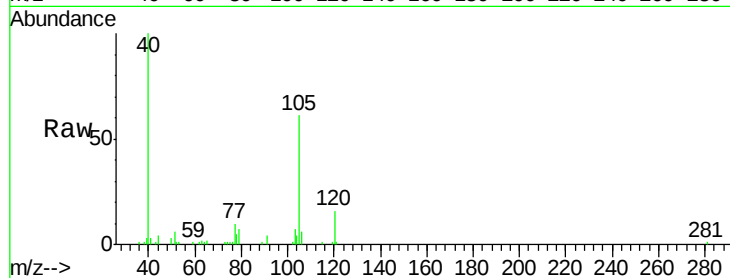
VSTDIC001

Tot Ion:105 Resp: 24291

Ion Ratio Lower Upper

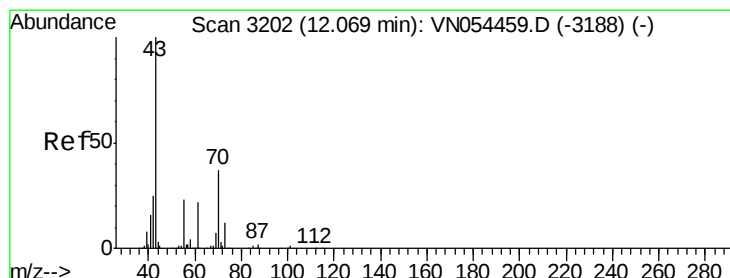
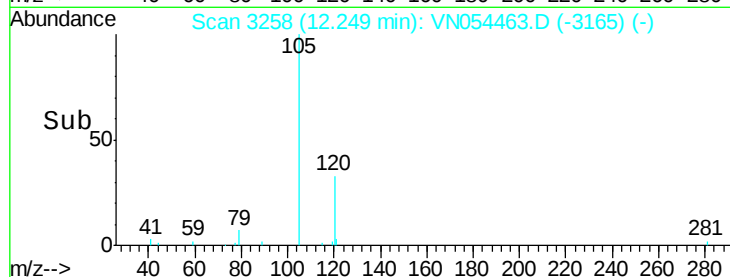
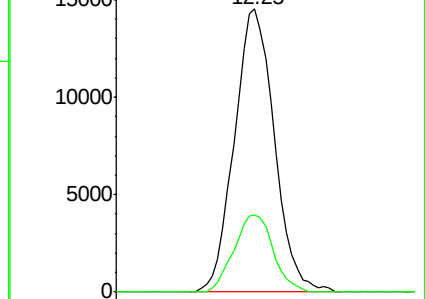
105 100

120 26.6 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.86 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Tgt Ion: 43 Resp: 5038

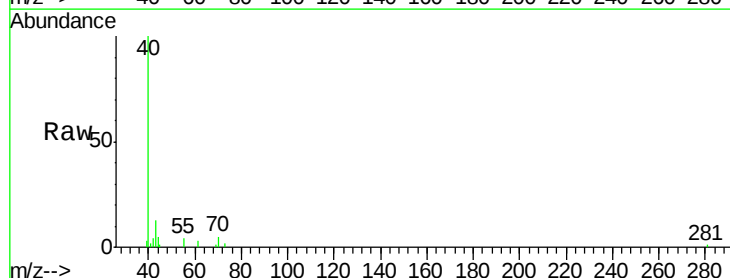
Ion Ratio Lower Upper

43 100

70 43.1 35.4 53.0

55 24.3 19.8 29.6

61 23.9 19.8 29.6

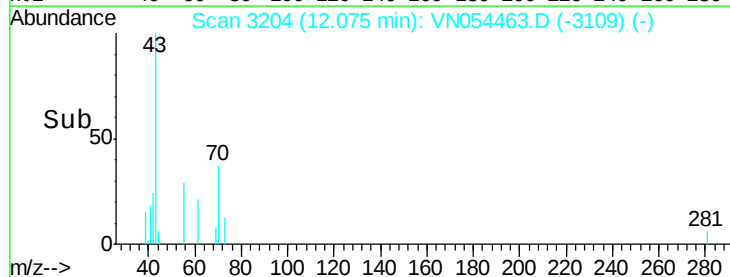
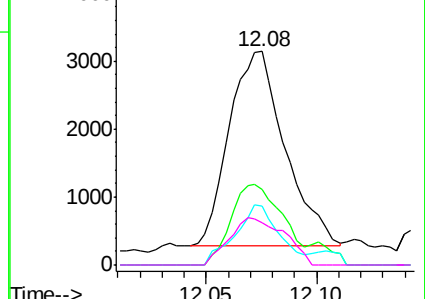


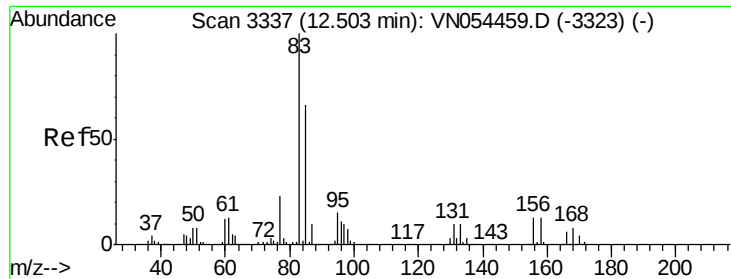
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 1.07 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

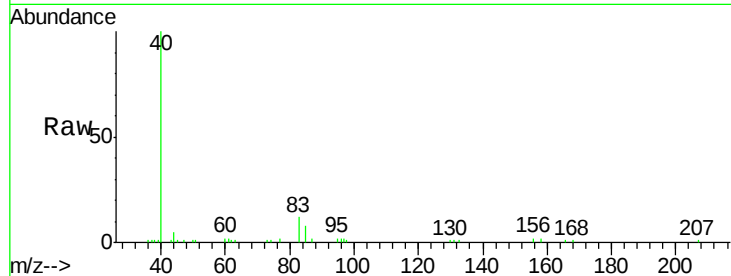
Tot Ion: 83 Resp: 5020

Ion Ratio Lower Upper

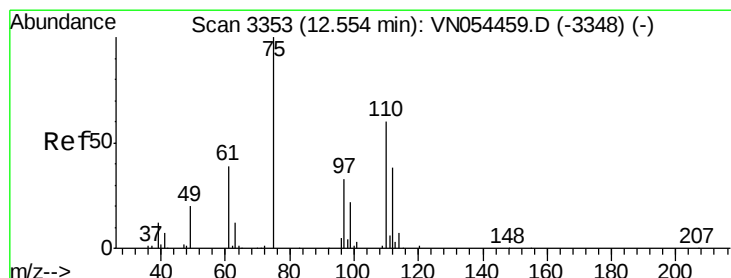
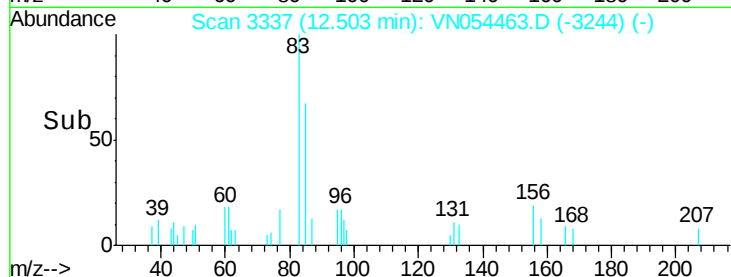
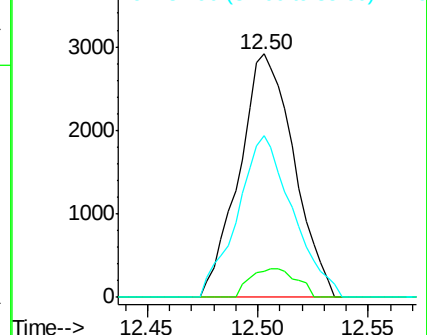
83 100

131 9.9 5.8 17.4

85 67.0 32.2 96.6



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



#76

1,2,3-Trichloropropane

Concen: 1.50 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054463.D

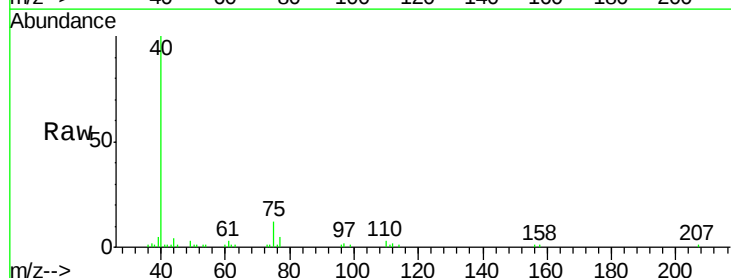
Acq: 20 Mar 2019 14:18

Tgt Ion: 75 Resp: 6035

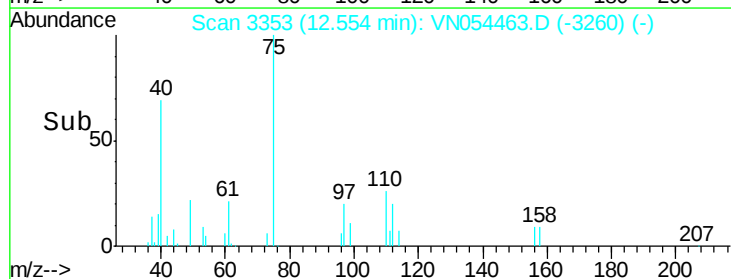
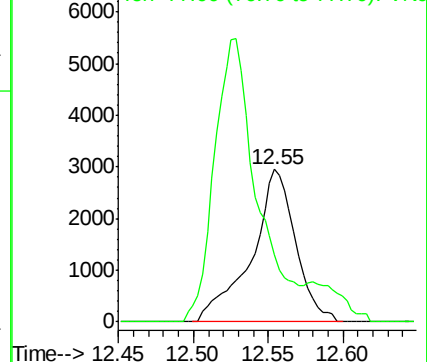
Ion Ratio Lower Upper

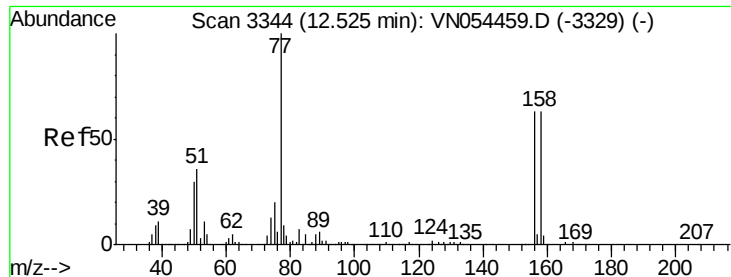
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 1.19 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

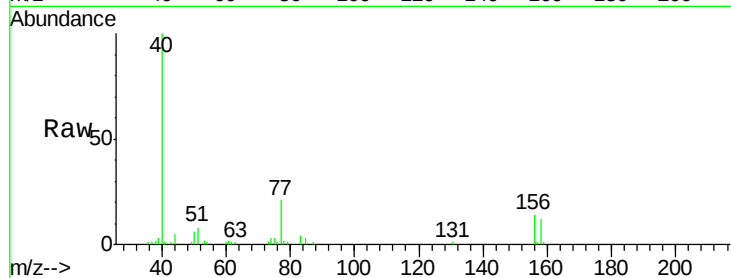
Tot Ion:156 Resp: 6030

Ion Ratio Lower Upper

156 100

77 181.2 81.5 244.4

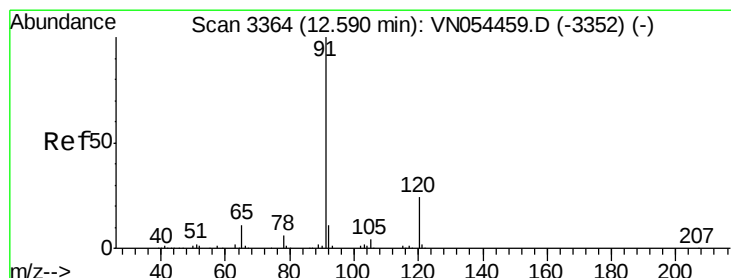
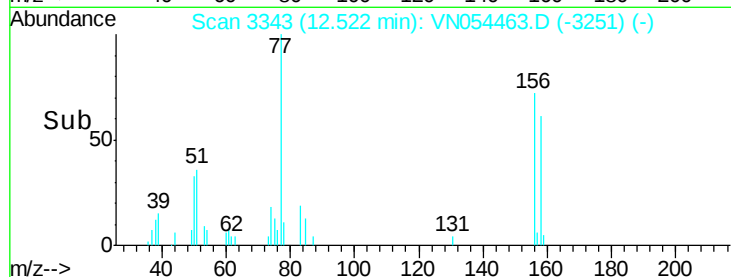
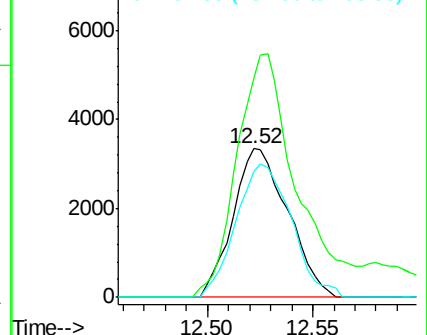
158 91.1 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.13 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054463.D

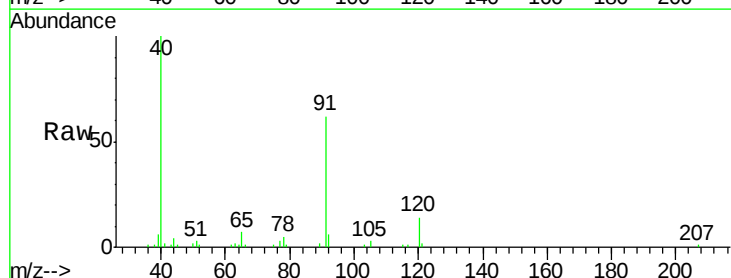
Acq: 20 Mar 2019 14:18

Tgt Ion: 91 Resp: 25146

Ion Ratio Lower Upper

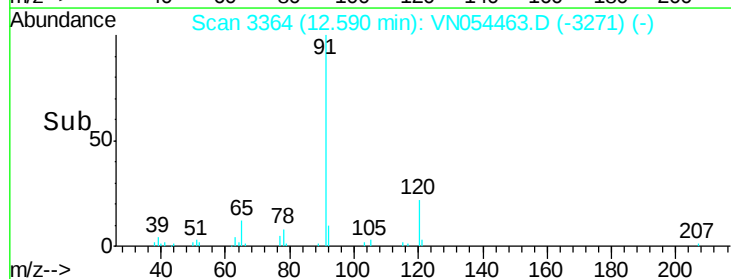
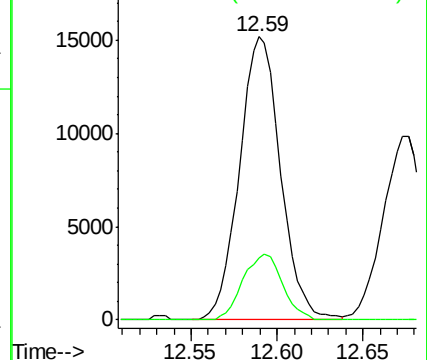
91 100

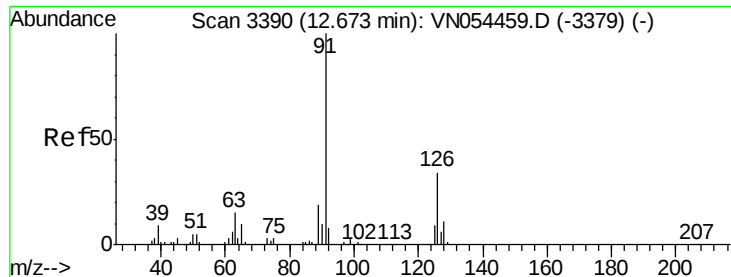
120 22.4 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 1.23 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

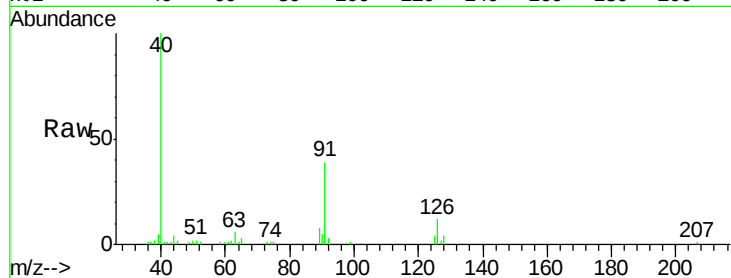
VSTDIC001

Tot Ion: 91 Resp: 17004

Ion Ratio Lower Upper

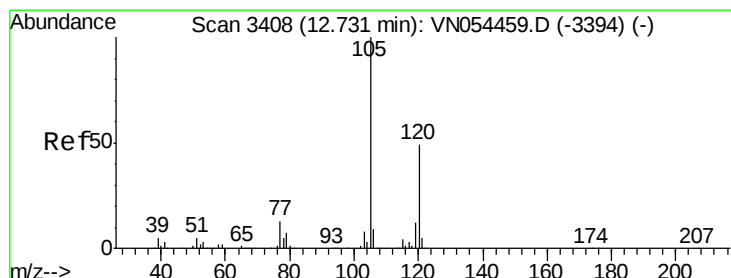
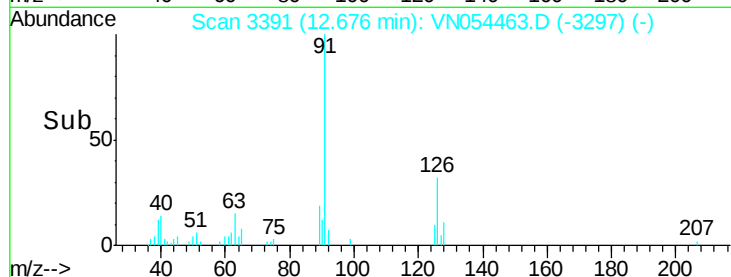
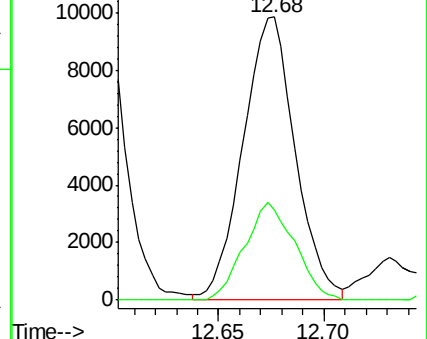
91 100

126 33.0 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 1.15 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054463.D

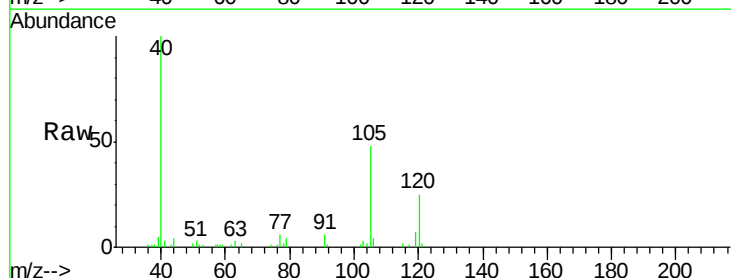
Acq: 20 Mar 2019 14:18

Tgt Ion: 105 Resp: 19235

Ion Ratio Lower Upper

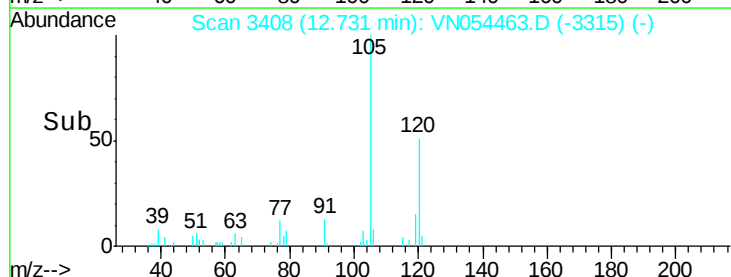
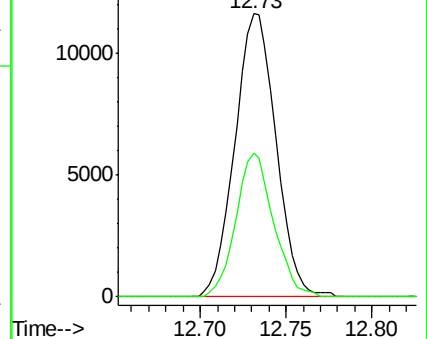
105 100

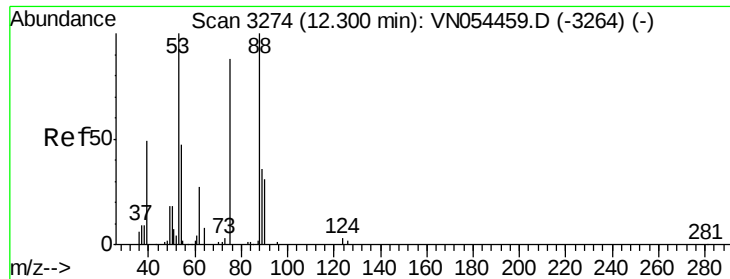
120 46.4 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 3.95 ug/l

RT: 12.29 min Scan# 3272

Delta R.T. -0.01 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

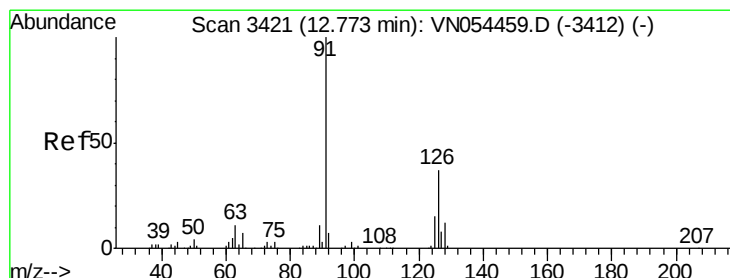
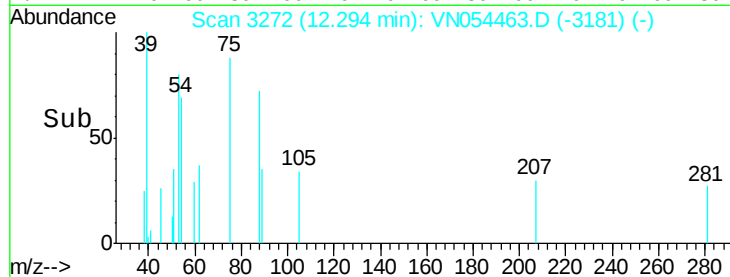
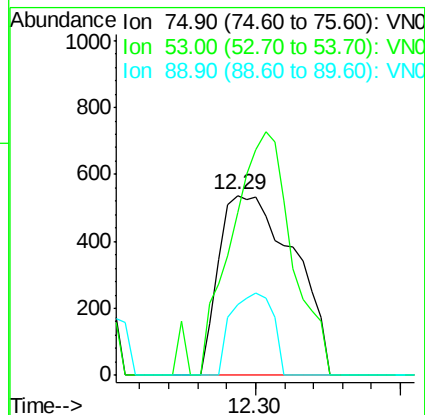
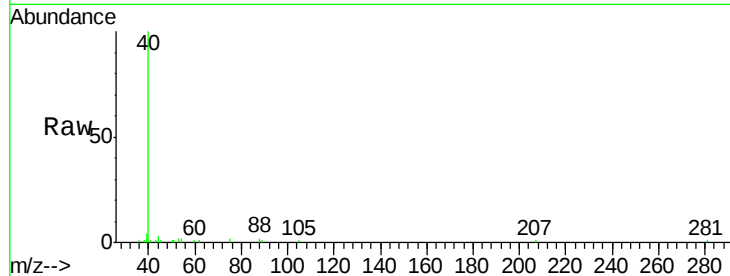
Tot Ion: 75 Resp: 967

Ion Ratio Lower Upper

75 100

53 108.7 76.2 114.2

89 25.3 39.2 58.8#



#82

4-Chlorotoluene

Concen: 1.12 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054463.D

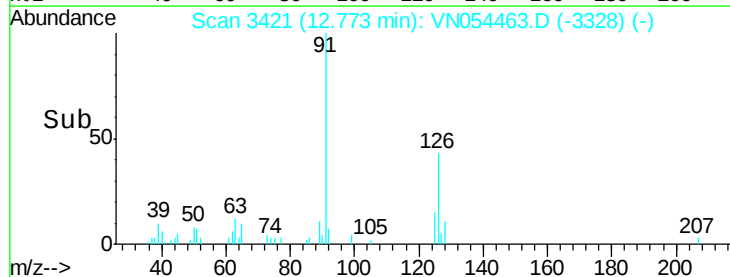
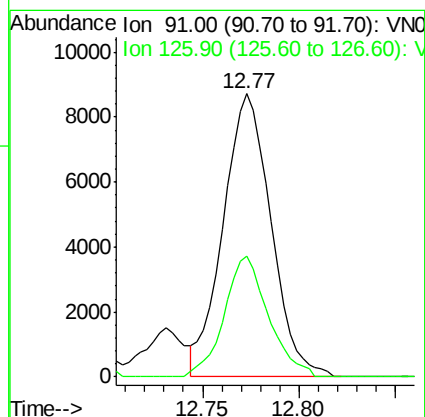
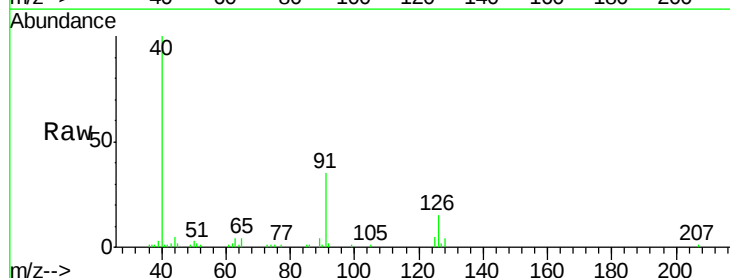
Acq: 20 Mar 2019 14:18

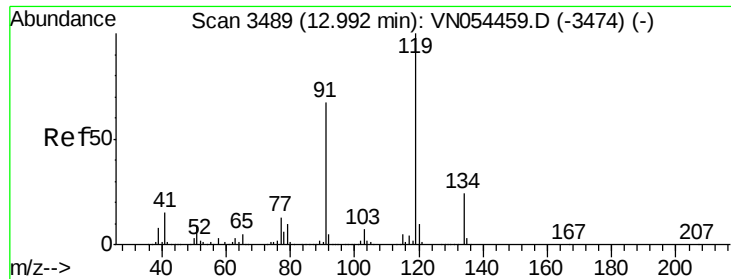
Tgt Ion: 91 Resp: 14979

Ion Ratio Lower Upper

91 100

126 39.3 18.1 54.1

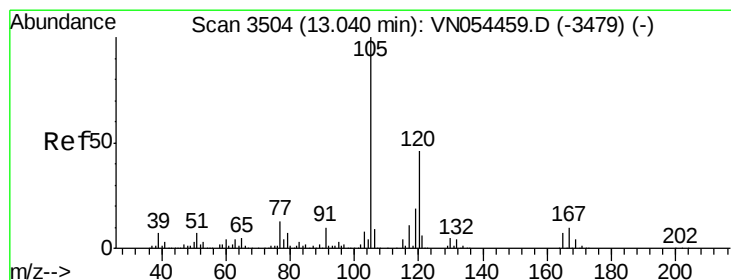
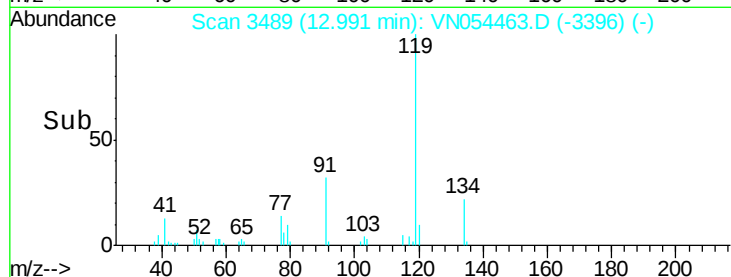
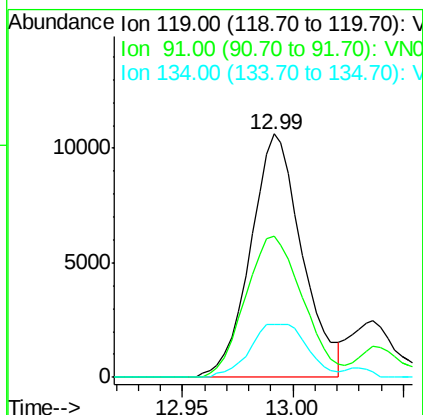
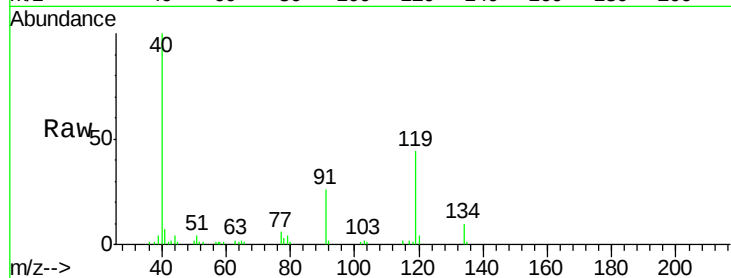




#83
tert-Butylbenzene
Concen: 1.18 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

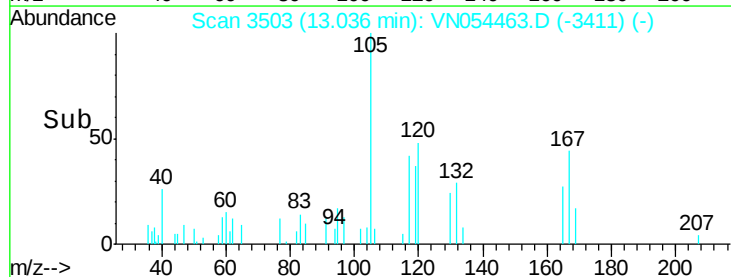
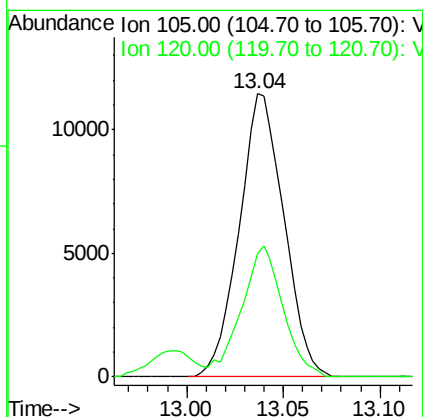
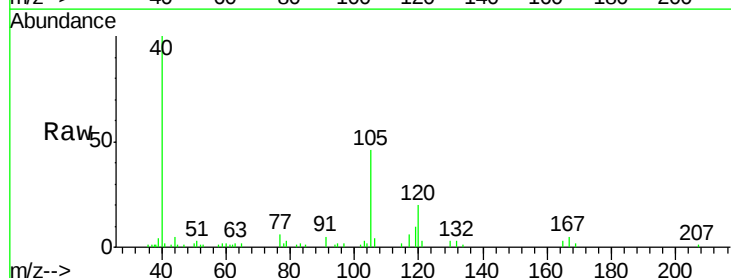
Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

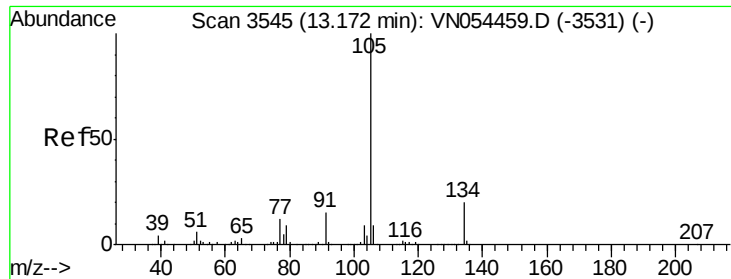
Tot Ion:119 Resp: 17195
Ion Ratio Lower Upper
119 100
91 65.0 30.9 92.8
134 24.3 13.2 39.6



#84
1,2,4-Trimethylbenzene
Concen: 1.12 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion:105 Resp: 18424
Ion Ratio Lower Upper
105 100
120 43.0 23.4 70.3





#85

sec-Butylbenzene

Concen: 1.20 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

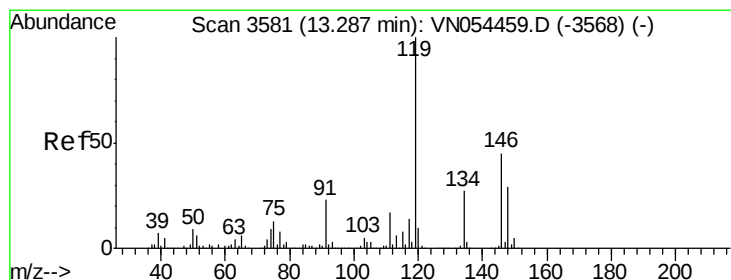
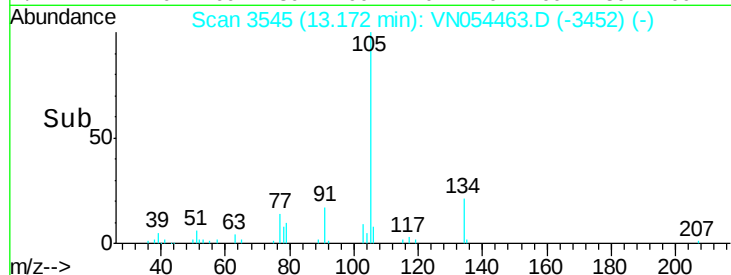
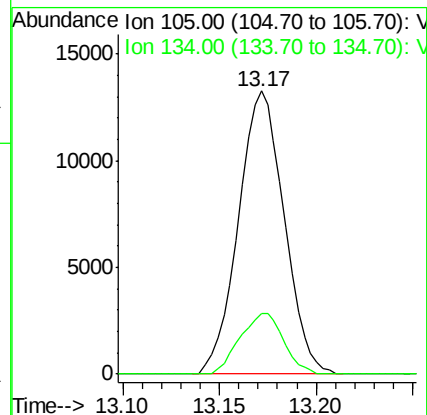
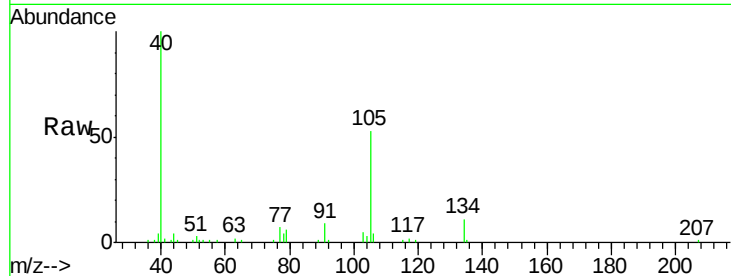
VSTDIC001

Tot Ion:105 Resp: 21774

Ion Ratio Lower Upper

105 100

134 20.5 10.7 32.1



#86

p-Isopropyltoluene

Concen: 1.14 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

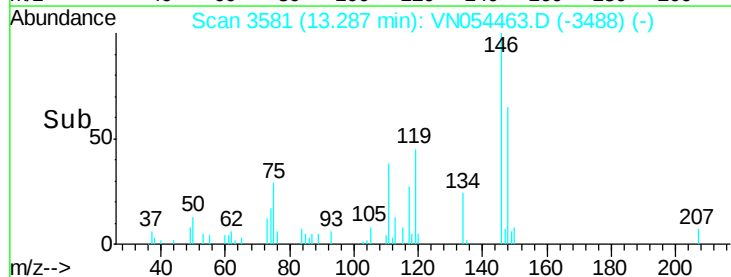
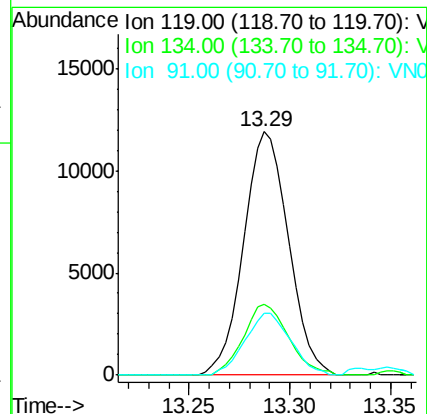
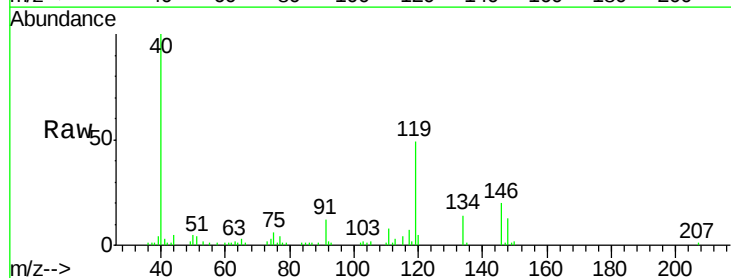
Tgt Ion:119 Resp: 18571

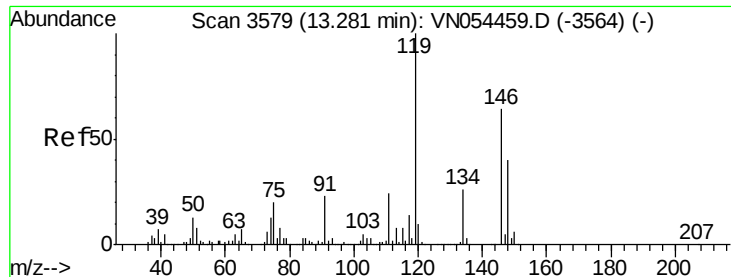
Ion Ratio Lower Upper

119 100

134 29.2 13.6 40.8

91 25.9 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 1.12 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

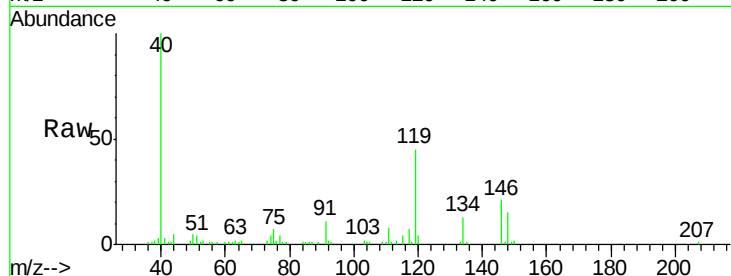
Tot Ion:146 Resp: 9430

Ion Ratio Lower Upper

146 100

111 39.2 18.8 56.3

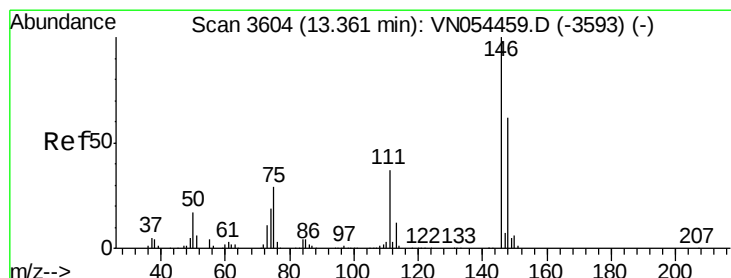
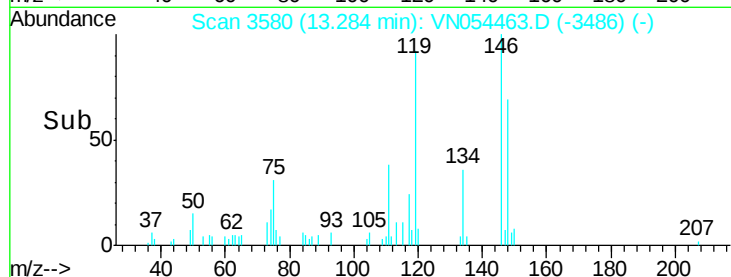
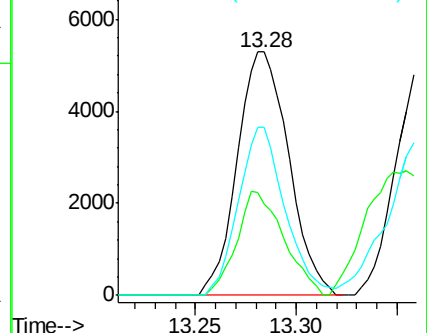
148 62.7 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 1.15 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

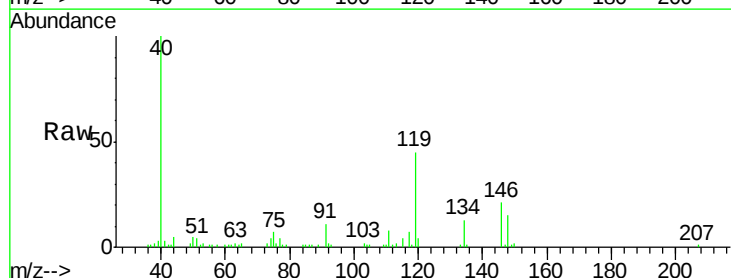
Tgt Ion:146 Resp: 9430

Ion Ratio Lower Upper

146 100

111 39.2 18.1 54.1

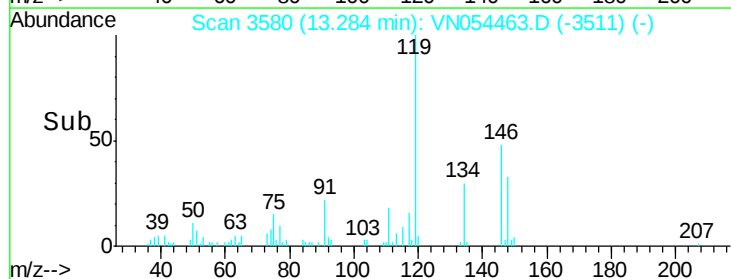
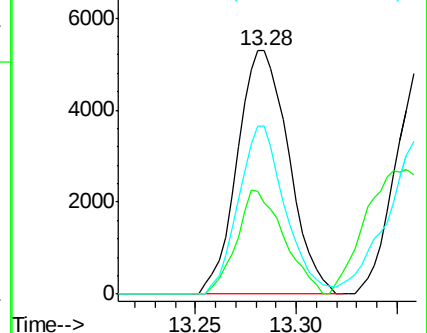
148 62.7 32.0 96.0

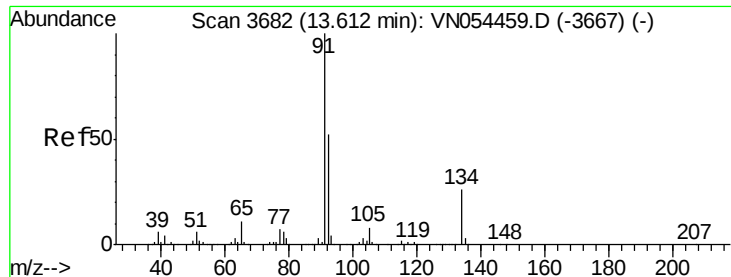


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

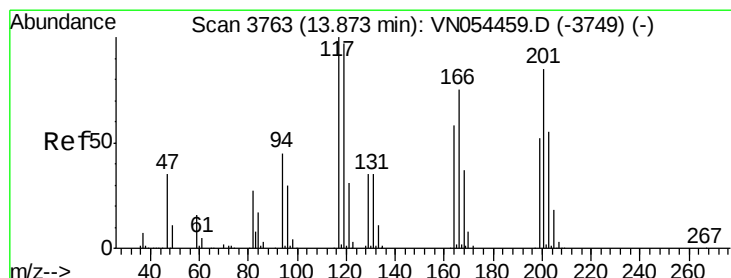
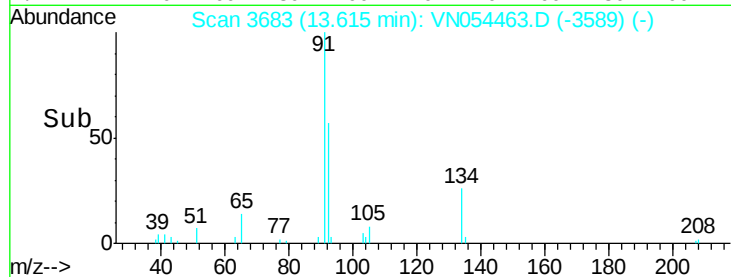
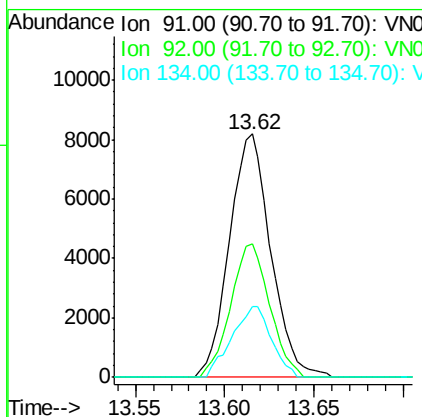
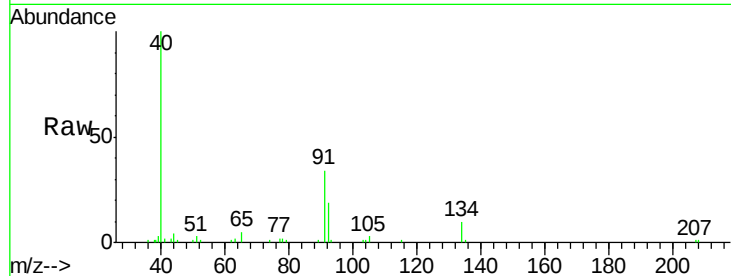




#89
n-Butylbenzene
Concen: 1.03 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

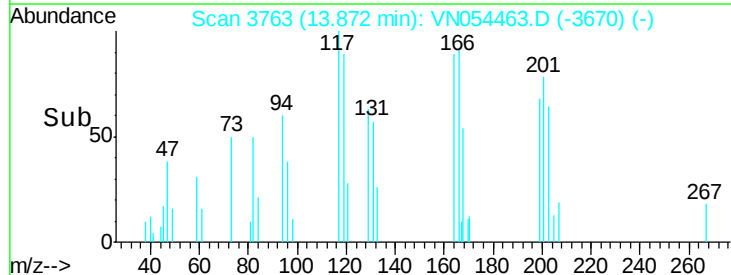
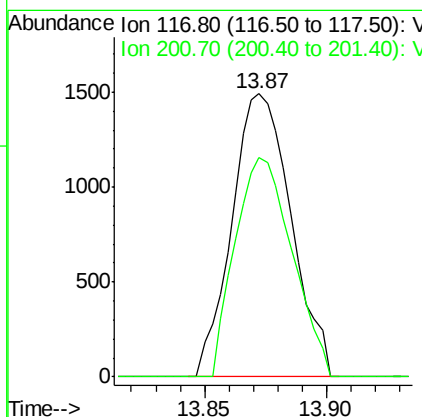
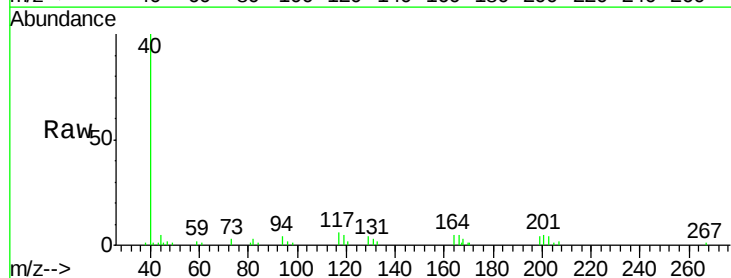
Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

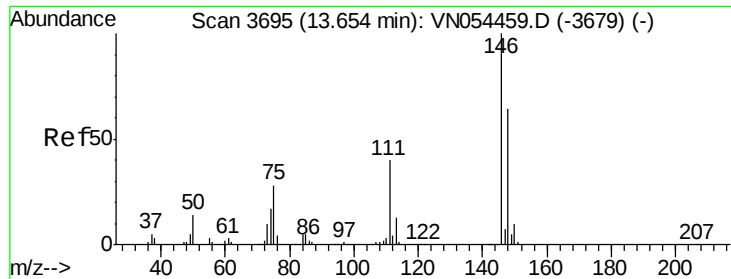
Tot Ion: 91 Resp: 13181
Ion Ratio Lower Upper
91 100
92 51.5 26.2 78.6
134 27.8 14.3 42.9



#90
Hexachloroethane
Concen: 0.99 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN054463.D
Acq: 20 Mar 2019 14:18

Tgt Ion: 117 Resp: 2510
Ion Ratio Lower Upper
117 100
201 74.6 48.1 144.4





#91

1,2-Dichlorobenzene

Concen: 1.09 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

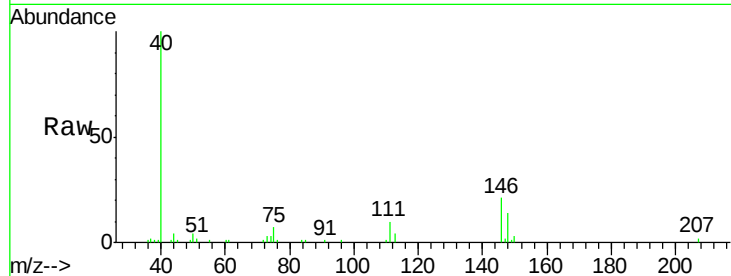
Tot Ion:146 Resp: 8904

Ion Ratio Lower Upper

146 100

111 43.8 19.1 57.3

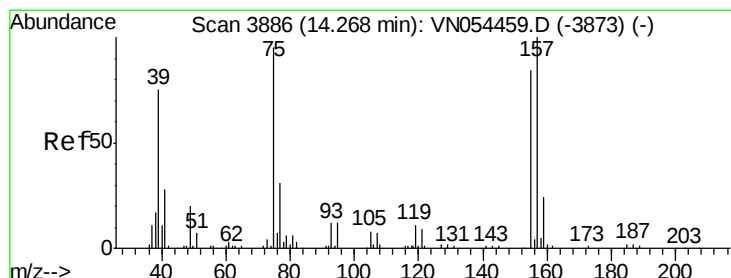
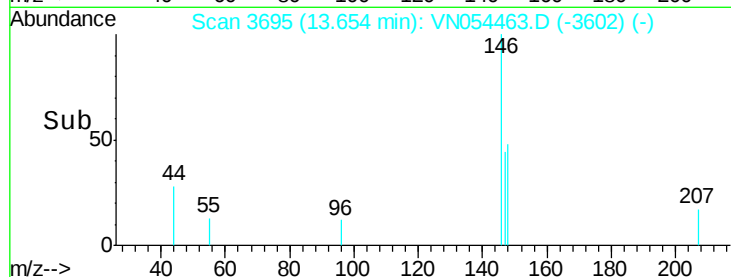
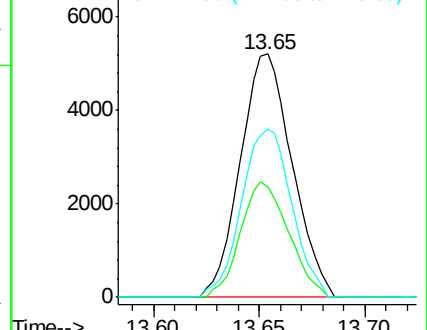
148 66.9 32.4 97.0



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: 0.85 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

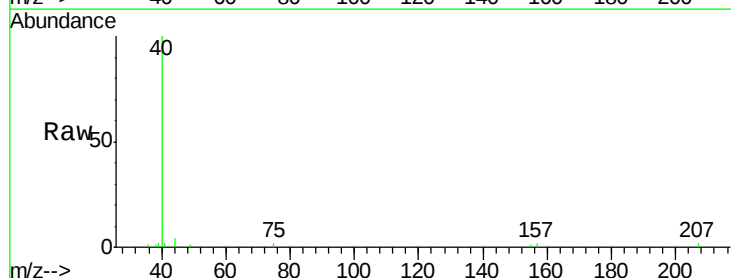
Tgt Ion: 75 Resp: 583

Ion Ratio Lower Upper

75 100

155 99.8 50.1 150.3

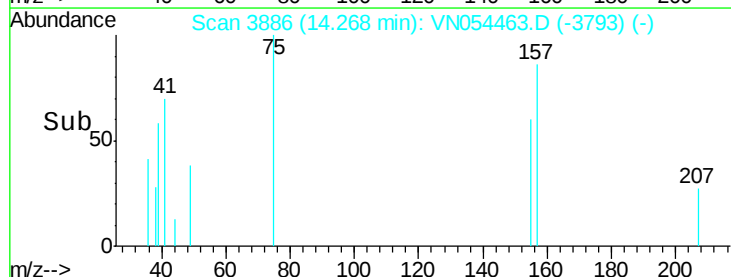
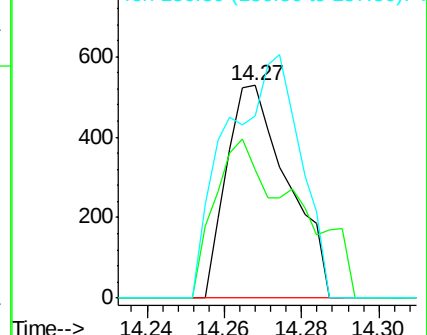
157 136.0 63.1 189.3

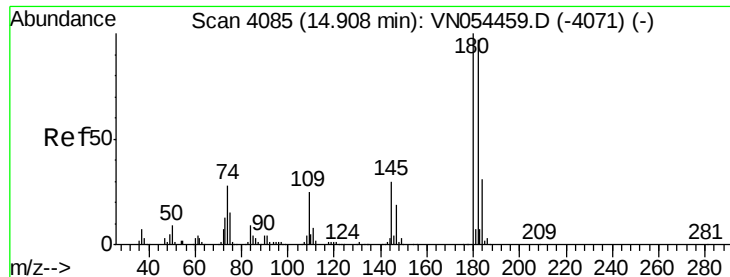


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

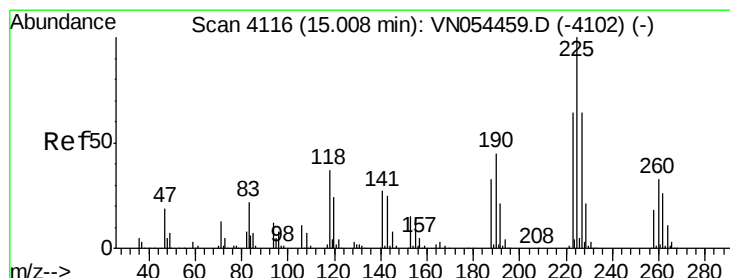
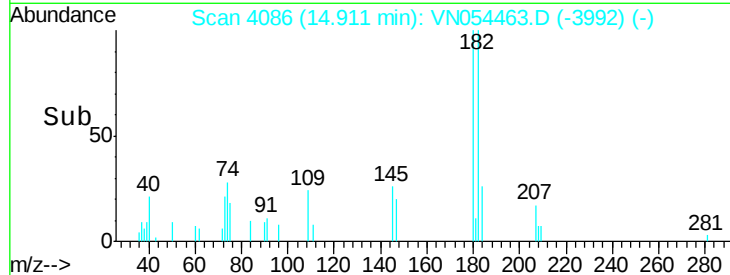
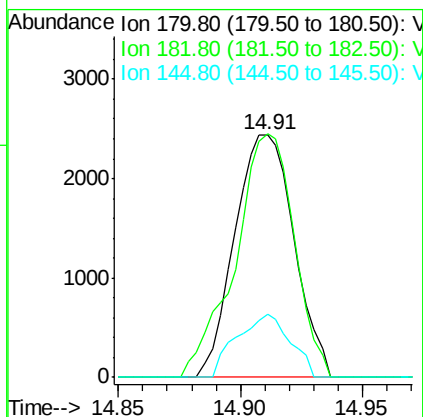
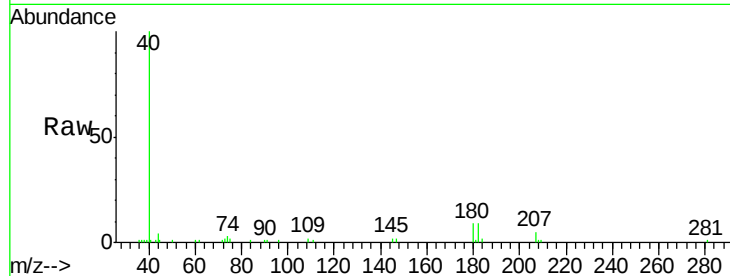




#93
 1,2,4-Trichlorobenzene
 Concen: 1.01 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

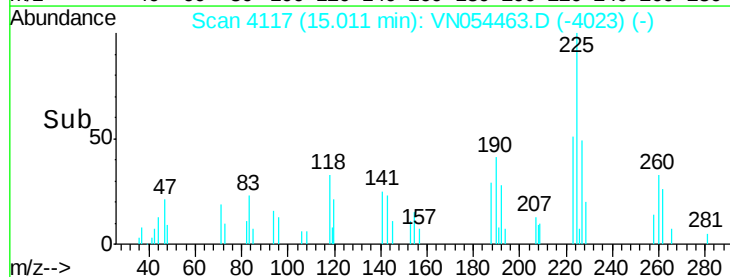
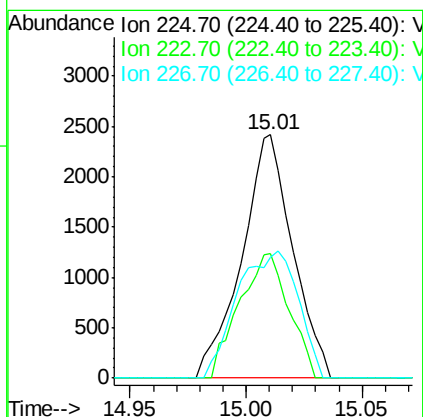
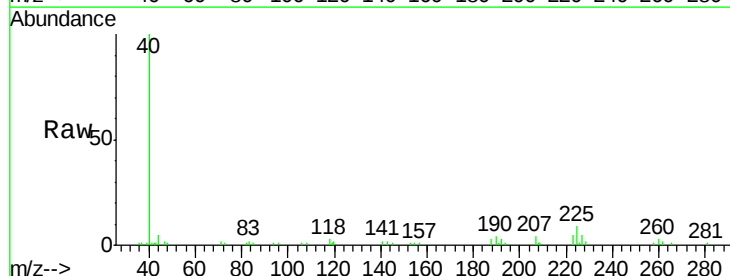
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

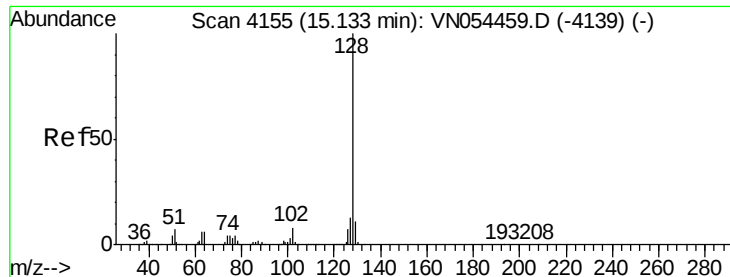
Tot Ion:180 Resp: 4110
 Ion Ratio Lower Upper
 180 100
 182 99.9 48.0 144.2
 145 23.5 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054463.D
 Acq: 20 Mar 2019 14:18

Tgt Ion:225 Resp: 3687
 Ion Ratio Lower Upper
 225 100
 223 50.0 31.1 93.5
 227 62.5 31.9 95.9





#95

Naphthalene

Concen: 0.98 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

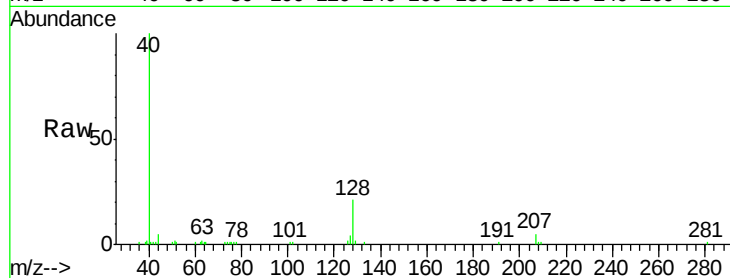
Tot Ion:128 Resp: 8917

Ion Ratio Lower Upper

128 100

127 16.0 10.1 15.1#

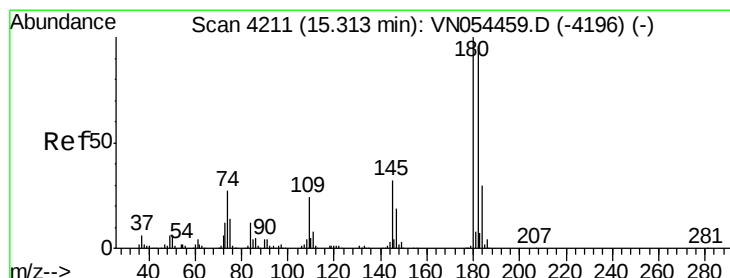
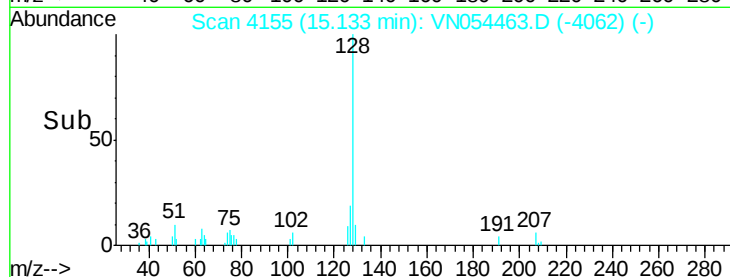
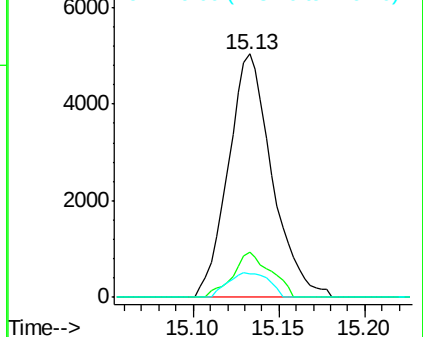
129 9.4 8.7 13.1



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: 1.03 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054463.D

Acq: 20 Mar 2019 14:18

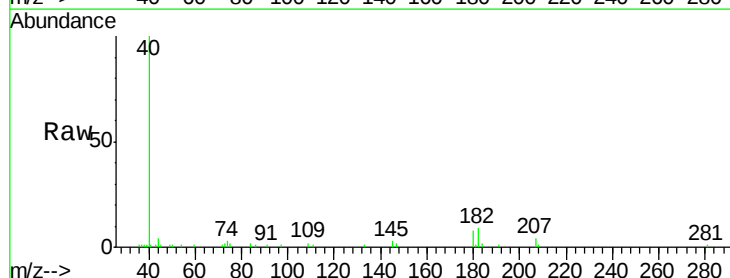
Tgt Ion:180 Resp: 4182

Ion Ratio Lower Upper

180 100

182 109.5 47.5 142.6

145 13.4 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

