

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031119\
 Data File : VN054132.D
 Acq On : 11 Mar 2019 10:12
 Operator : JC/SP
 Sample : VSTDIC001
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Quant Time: Mar 12 01:22:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031119W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 12 00:55:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1593340	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2287556	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1937839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	735455	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	16289	0.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	1.92%	
35) Dibromofluoromethane	7.59	113	14954	1.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.02%	
50) Toluene-d8	10.09	98	52309	0.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	1.92%	
62) 4-Bromofluorobenzene	12.40	95	19578	1.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	2.06%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.85	85	16255	1.238	ug/l 99
3) Chloromethane	2.06	50	19037	1.218	ug/l 99
4) Vinyl Chloride	2.19	62	21156	1.201	ug/l 99
5) Bromomethane	2.58	94	14837	1.229	ug/l 98
6) Chloroethane	2.71	64	13279	1.213	ug/l 100
7) Trichlorofluoromethane	3.03	101	28951	1.193	ug/l 95
8) Diethyl Ether	3.41	74	11667	1.195	ug/l 90
9) 1,1,2-Trichlorotrifluoroet	3.76	101	19595	1.254	ug/l 95
10) Methyl Iodide	3.94	142	18335	0.918	ug/l 98
11) Tert butyl alcohol	4.82	59	1696	1.442	ug/l # 40
12) 1,1-Dichloroethene	3.72	96	17345	1.149	ug/l 92
13) Acrolein	3.61	56	1787	1.872	ug/l # 78
14) Allyl chloride	4.32	41	22886	1.046	ug/l # 84
15) Acrylonitrile	5.01	53	23322	4.907	ug/l # 82
16) Acetone	3.82	43	26684	Below Cal	94
17) Carbon Disulfide	4.04	76	47404	1.216	ug/l 98
18) Methyl Acetate	4.33	43	9811	0.896	ug/l # 90
19) Methyl tert-butyl Ether	5.05	73	45860	1.117	ug/l 95
20) Methylene Chloride	4.54	84	19277	1.258	ug/l # 84
21) trans-1,2-Dichloroethene	5.03	96	17124	1.155	ug/l 89
22) Diisopropyl ether	5.96	45	41248	1.021	ug/l # 84
23) Vinyl Acetate	5.90	43	154692	5.069	ug/l 99
24) 1,1-Dichloroethane	5.84	63	30247	1.154	ug/l 96
25) 2-Butanone	6.85	43	26834	4.721	ug/l 100
26) 2,2-Dichloropropane	6.82	77	28332	1.171	ug/l 97
27) cis-1,2-Dichloroethene	6.83	96	17997	1.061	ug/l 94
28) Bromochloromethane	7.19	49	10307	0.905	ug/l # 70
29) Tetrahydrofuran	7.23	42	16881	4.622	ug/l # 76
30) Chloroform	7.37	83	32992	1.189	ug/l 85
31) Cyclohexane	7.66	56	49038	1.092	ug/l # 28
32) 1,1,1-Trichloroethane	7.57	97	28587	1.138	ug/l # 50
36) 1,1-Dichloropropene	7.80	75	23710	1.191	ug/l # 85
38) Carbon Tetrachloride	7.78	117	27525	1.247	ug/l 91
39) Methylcyclohexane	9.08	83	29208	1.192	ug/l 94

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 VSTDIC001

Quant Time: Mar 12 01:22:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031119W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 12 00:55:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.04	78	64245	1.123	ug/l	96
41) Methacrylonitrile	7.18	41	5617	0.836	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	22241	1.128	ug/l	96
43) Isopropyl Acetate	8.17	43	21991	1.025	ug/l #	91
44) Trichloroethene	8.84	130	20077	1.137	ug/l	94
45) 1,2-Dichloropropane	9.12	63	16684	1.141	ug/l	91
46) Dibromomethane	9.21	93	11701	1.180	ug/l	97
47) Bromodichloromethane	9.40	83	23263	1.132	ug/l	99
48) Methyl methacrylate	9.20	41	10254	0.889	ug/l #	81
49) 1,4-Dioxane	9.21	88	3264	21.805	ug/l #	59
51) 4-Methyl-2-Pentanone	9.99	43	56460	4.905	ug/l	95
52) Toluene	10.16	92	40350	1.102	ug/l	91
53) t-1,3-Dichloropropene	10.38	75	20376	0.973	ug/l #	72
54) cis-1,3-Dichloropropene	9.84	75	24936	1.061	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	15750	1.141	ug/l	87
56) Ethyl methacrylate	10.43	69	17604	1.041	ug/l #	94
57) 1,3-Dichloropropane	10.71	76	24138	1.080	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.70	63	27137	4.348	ug/l #	84
59) 2-Hexanone	10.76	43	39908	5.224	ug/l	96
60) Dibromochloromethane	10.90	129	16190	1.012	ug/l	96
61) 1,2-Dibromoethane	11.01	107	14435	1.040	ug/l	94
64) Tetrachloroethene	10.63	164	22731	1.274	ug/l	98
65) Chlorobenzene	11.43	112	47861	1.166	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.51	131	16410	1.062	ug/l #	62
67) Ethyl Benzene	11.51	91	79258	1.161	ug/l	96
68) m/p-Xylenes	11.62	106	60960	2.284	ug/l	95
69) o-Xylene	11.95	106	29054	1.109	ug/l	100
70) Stvrene	11.96	104	41636	1.026	ug/l	98
71) Bromoform	12.12	173	9781	0.914	ug/l #	81
73) Isopropylbenzene	12.25	105	78716	1.346	ug/l	98
74) N-amyl acetate	12.07	43	11865	0.891	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.50	83	15871	1.254	ug/l	97
76) 1,2,3-Trichloropropane	12.56	75	20353	1.960	ug/l #	100
77) Bromobenzene	12.53	156	19869	1.305	ug/l	88
78) n-propylbenzene	12.59	91	78158	1.249	ug/l	98
79) 2-Chlorotoluene	12.67	91	51864	1.354	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	63349	1.306	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.31	75	4145	1.188	ug/l	95
82) 4-Chlorotoluene	12.77	91	45004	1.205	ug/l	96
83) tert-Butylbenzene	12.99	119	59819	1.336	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	58872	1.240	ug/l	99
85) sec-Butylbenzene	13.17	105	75647	1.304	ug/l	98
86) p-Isopropyltoluene	13.29	119	63559	1.255	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	29343	1.153	ug/l	98
88) 1,4-Dichlorobenzene	13.28	146	29343	1.168	ug/l	99
89) n-Butylbenzene	13.62	91	40255	1.037	ug/l	97
90) Hexachloroethane	13.87	117	11182	1.237	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	28983	1.160	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	2778	1.275	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	9808	0.757	ug/l	97

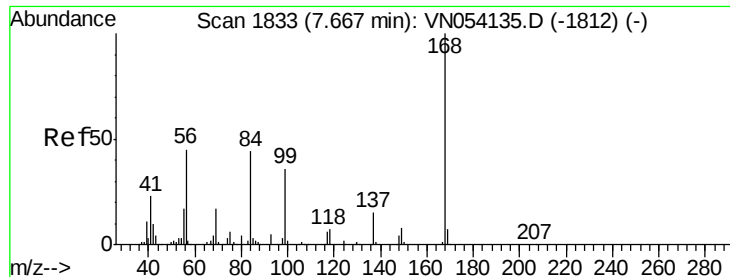
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Quant Title : SW846 8260
QLast Update : Tue Mar 12 00:55:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	13069	1.323	ug/l	96
95) Naphthalene	15.13	128	23872	0.868	ug/l	97
96) 1,2,3-Trichlorobenzene	15.32	180	11034	0.840	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

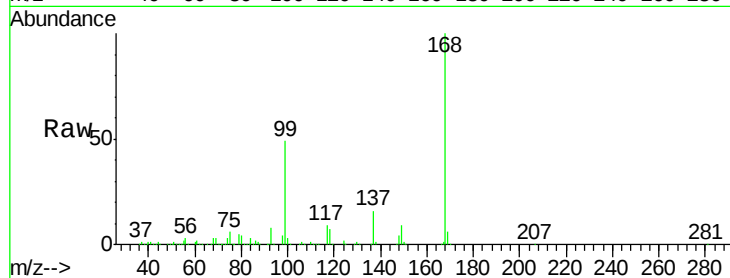
VSTDIC001

Tot Ion:168 Resp: 1593340

Ion Ratio Lower Upper

168 100

99 48.5 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

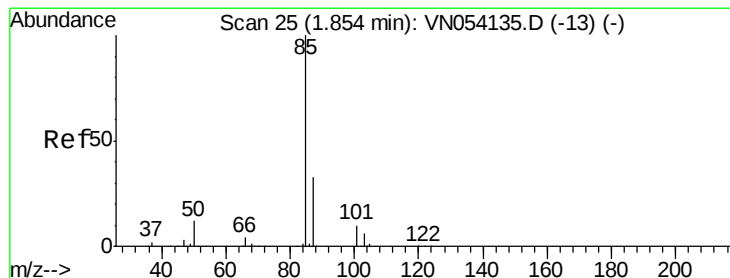
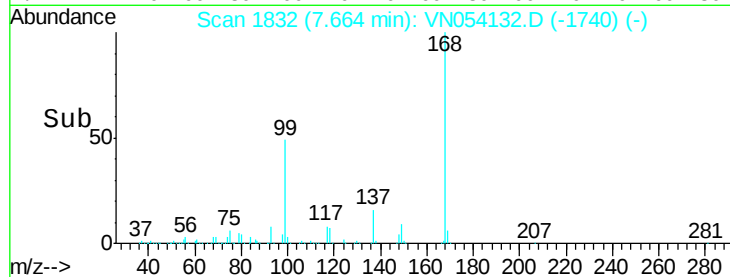
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.238 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054132.D

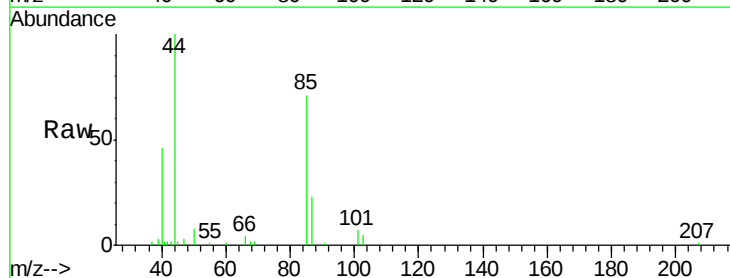
Acq: 11 Mar 2019 10:12

Tgt Ion: 85 Resp: 16255

Ion Ratio Lower Upper

85 100

87 32.3 16.4 49.2



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

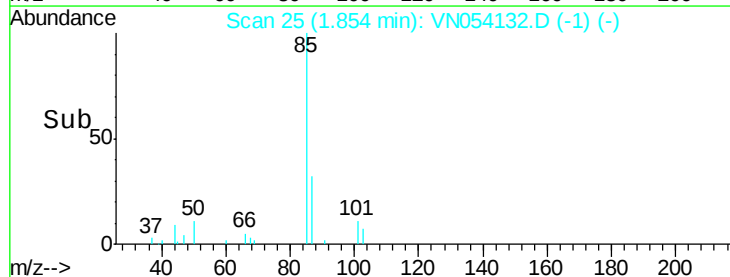
1.85

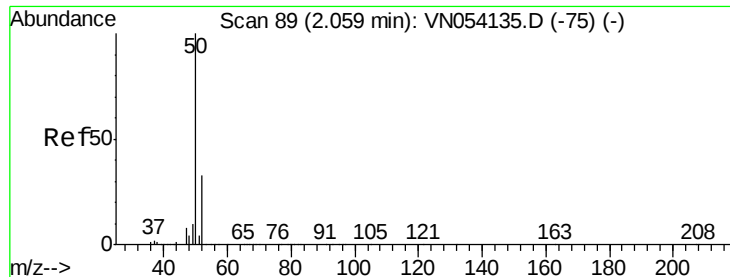
10000

5000

0

Time-->





#3

Chloromethane

Concen: 1.218 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

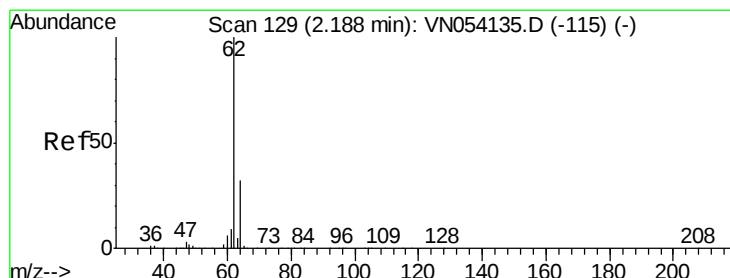
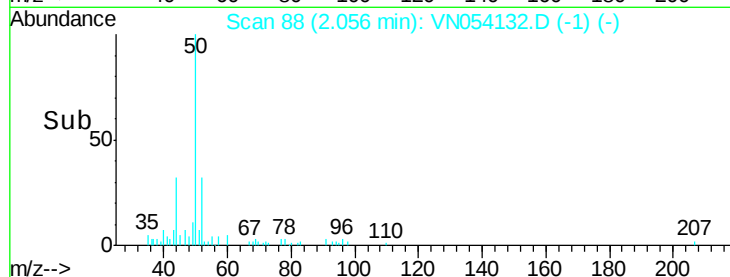
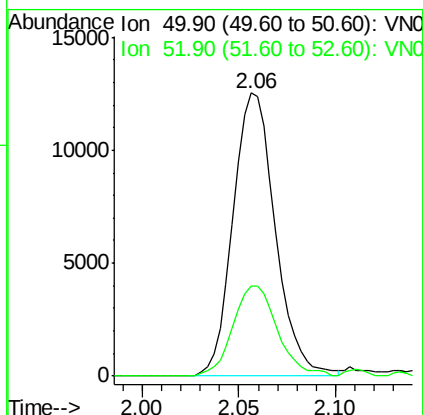
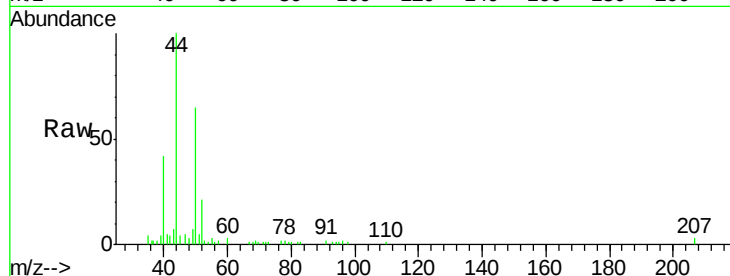
VSTDIC001

Tot Ion: 50 Resp: 19037

Ion Ratio Lower Upper

50 100

52 32.0 26.0 39.0



#4

Vinyl Chloride

Concen: 1.201 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN054132.D

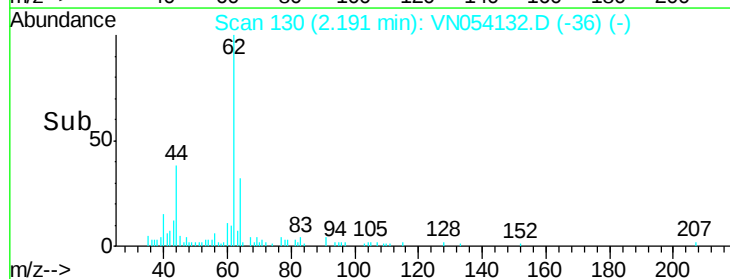
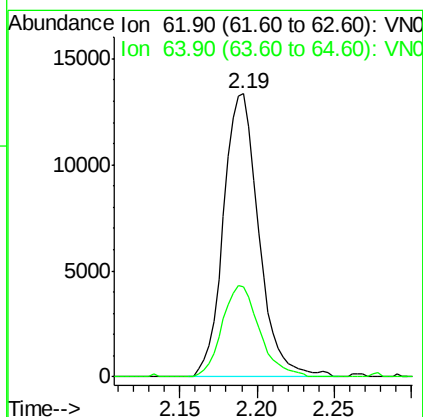
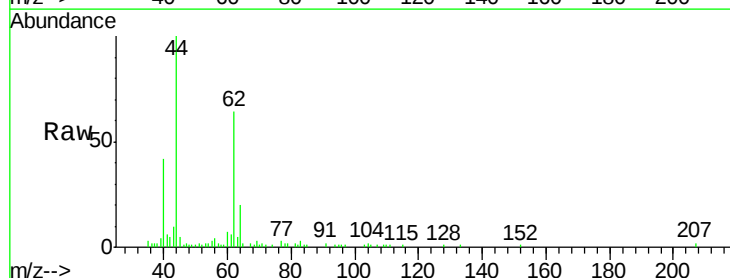
Acq: 11 Mar 2019 10:12

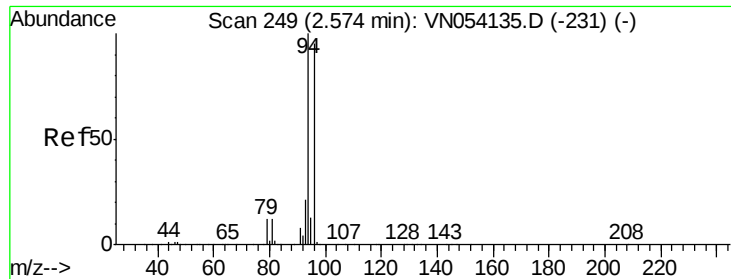
Tgt Ion: 62 Resp: 21156

Ion Ratio Lower Upper

62 100

64 32.0 25.3 37.9





#5

Bromomethane

Concen: 1.229 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

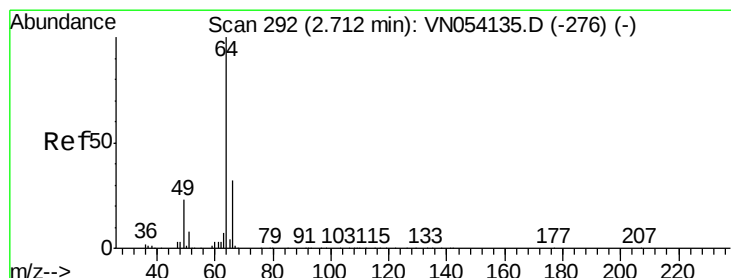
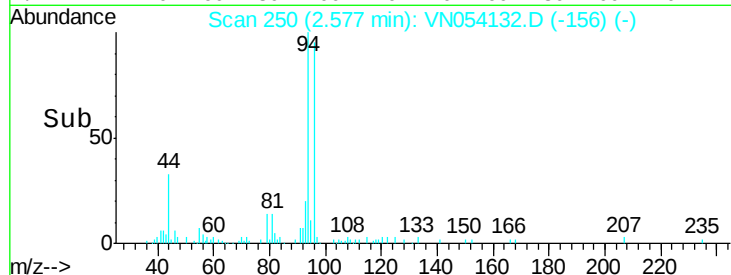
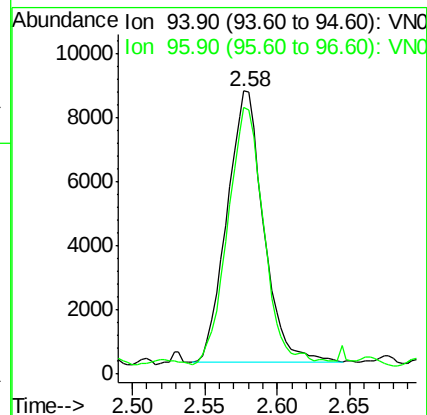
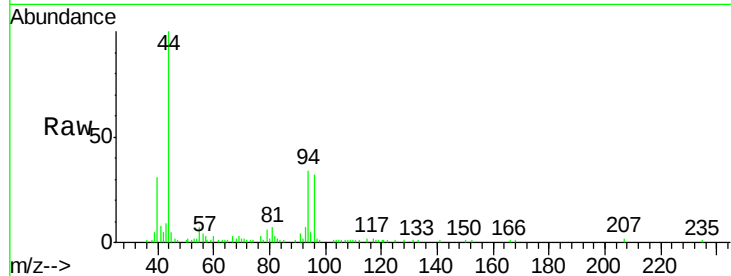
VSTDIC001

Tot Ion: 94 Resp: 14837

Ion Ratio Lower Upper

94 100

96 95.2 74.2 111.4



#6

Chloroethane

Concen: 1.213 ug/l

RT: 2.71 min Scan# 292

Delta R.T. -0.00 min

Lab File: VN054132.D

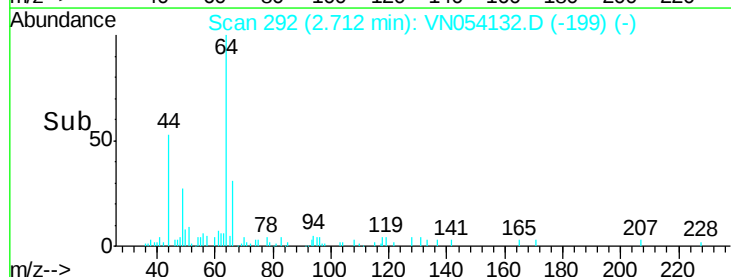
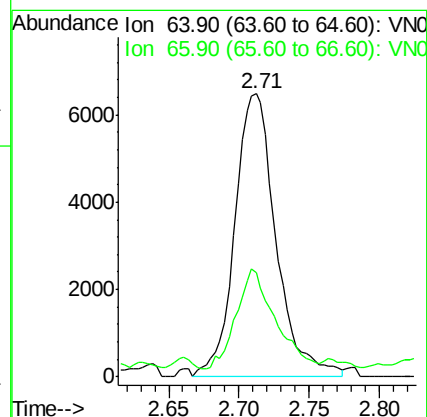
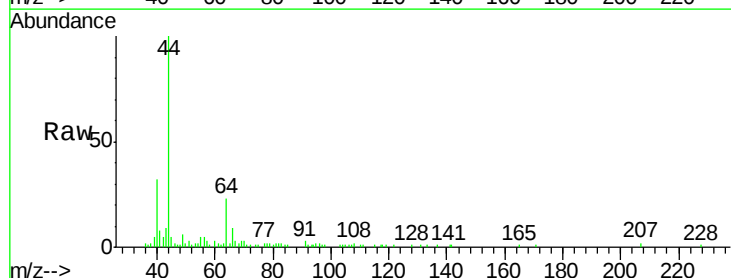
Acq: 11 Mar 2019 10:12

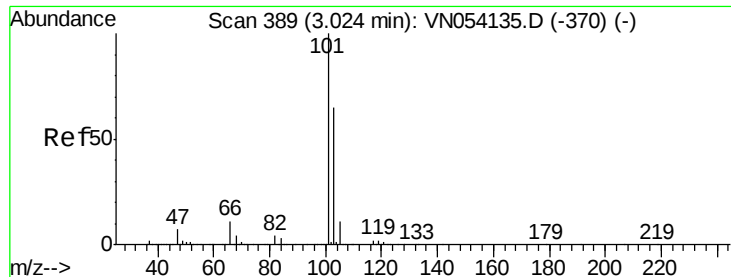
Tgt Ion: 64 Resp: 13279

Ion Ratio Lower Upper

64 100

66 32.0 25.4 38.2





#7

Trichlorofluoromethane

Concen: 1.193 ug/l

RT: 3.03 min Scan# 390

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

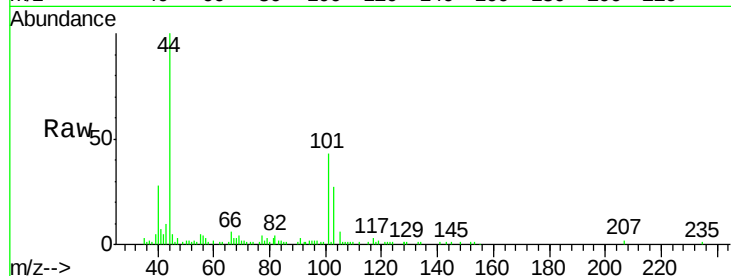
VSTDIC001

Tot Ion:101 Resp: 28951

Ion Ratio Lower Upper

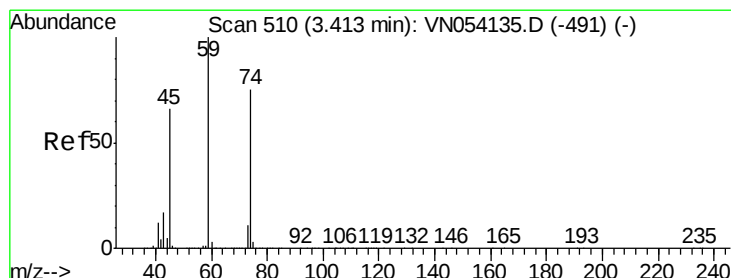
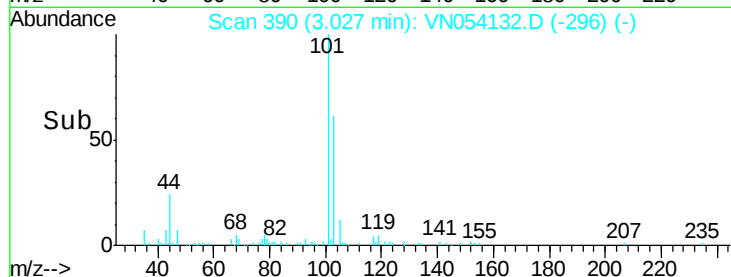
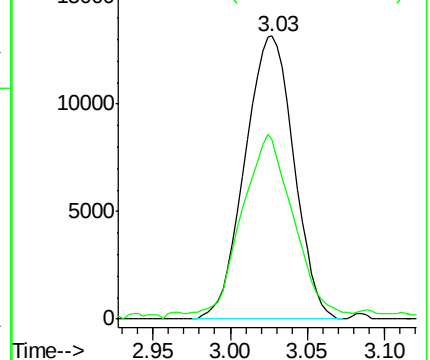
101 100

103 61.2 52.0 78.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 1.195 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN054132.D

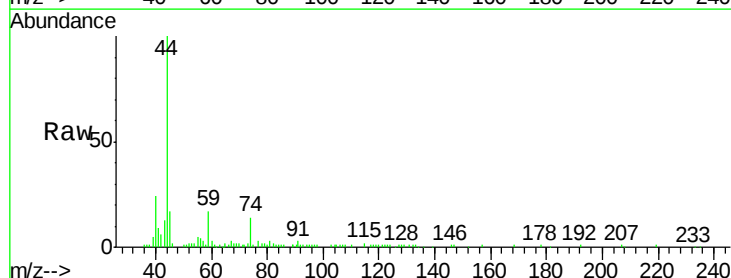
Acq: 11 Mar 2019 10:12

Tgt Ion: 74 Resp: 11667

Ion Ratio Lower Upper

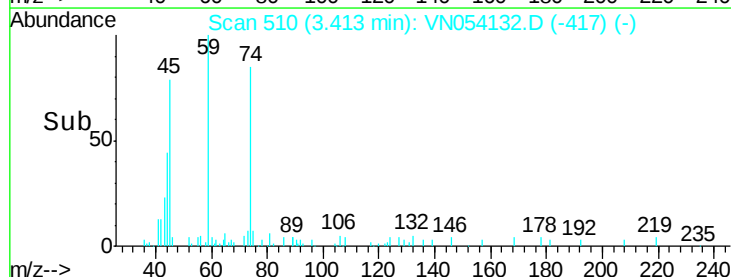
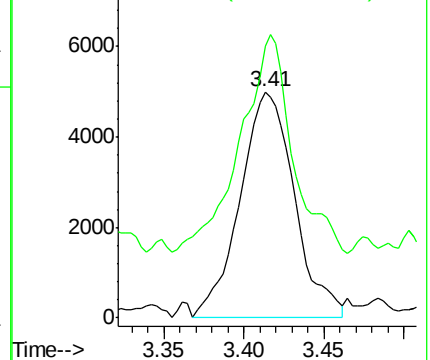
74 100

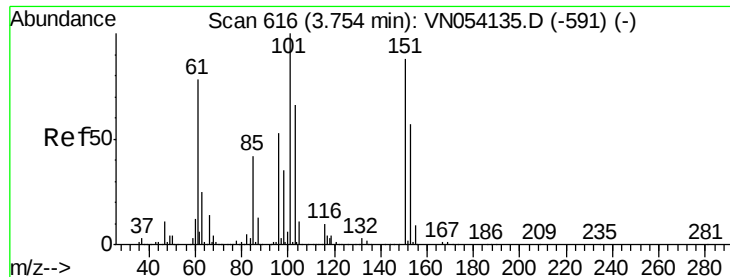
45 92.9 51.7 155.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.254 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

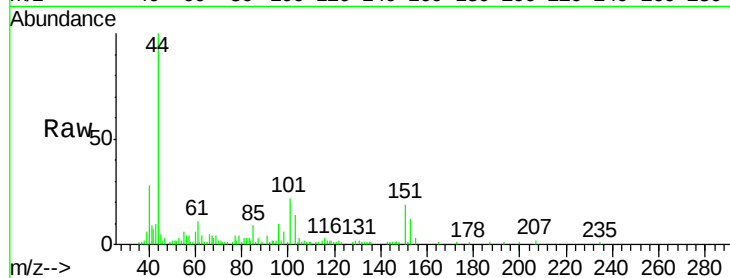
Tot Ion:101 Resp: 19595

Ion Ratio Lower Upper

101 100

85 44.0 33.1 49.7

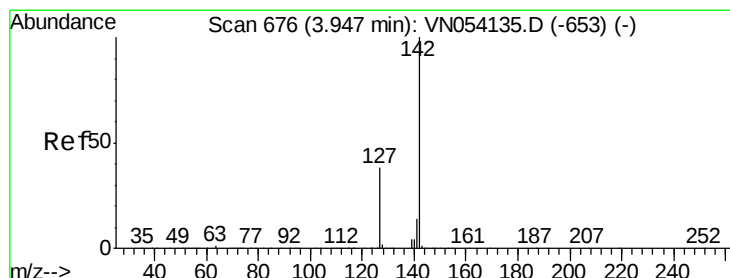
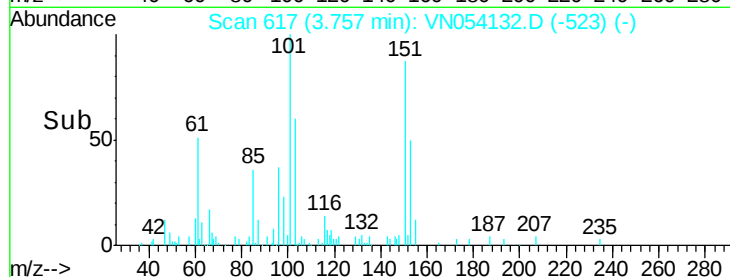
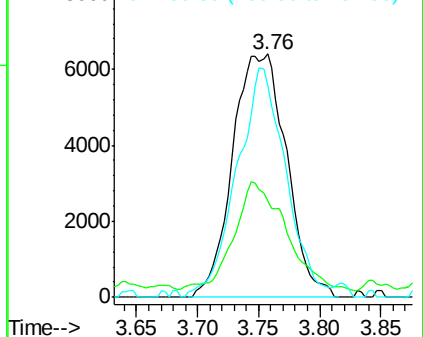
151 85.6 64.3 96.5



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: 0.918 ug/l

RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

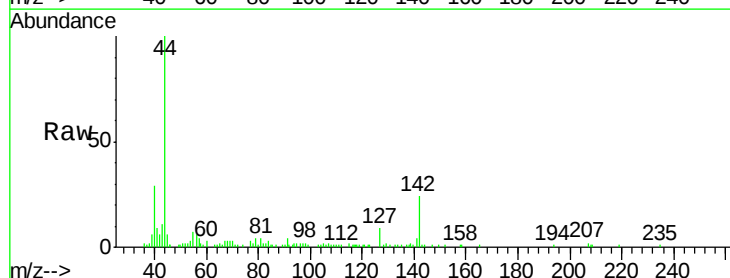
Tgt Ion:142 Resp: 18335

Ion Ratio Lower Upper

142 100

127 38.9 31.9 47.9

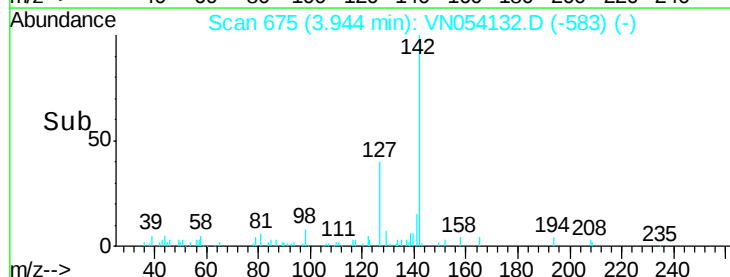
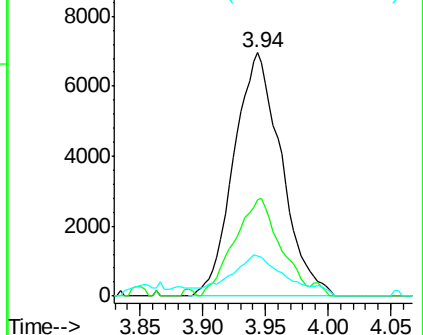
141 13.6 11.4 17.0

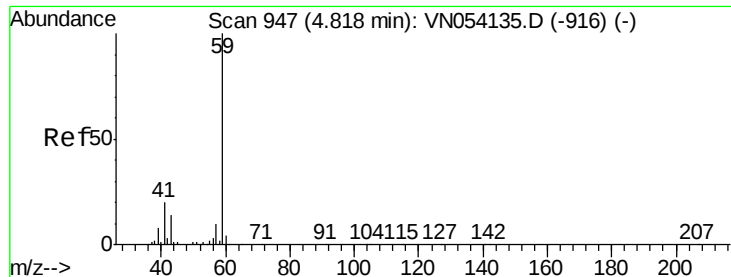


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 1.442 ug/l

RT: 4.82 min Scan# 947

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

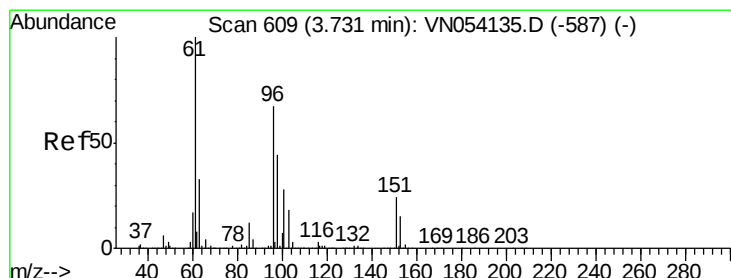
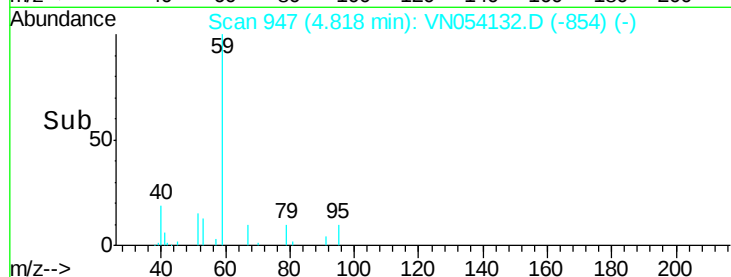
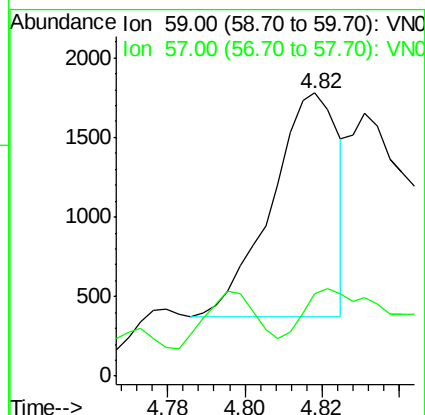
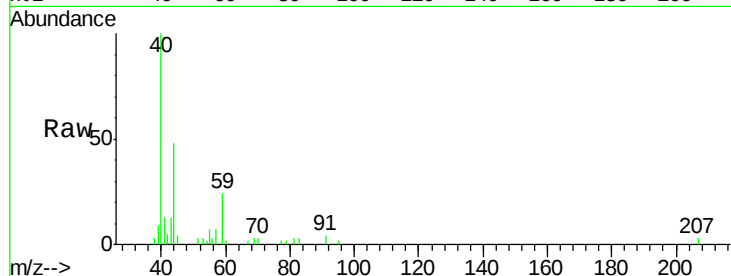
VSTDIC001

Tot Ion: 59 Resp: 1696

Ion Ratio Lower Upper

59 100

57 32.6 8.2 12.4#



#12

1,1-Dichloroethene

Concen: 1.149 ug/l

RT: 3.72 min Scan# 607

Delta R.T. -0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

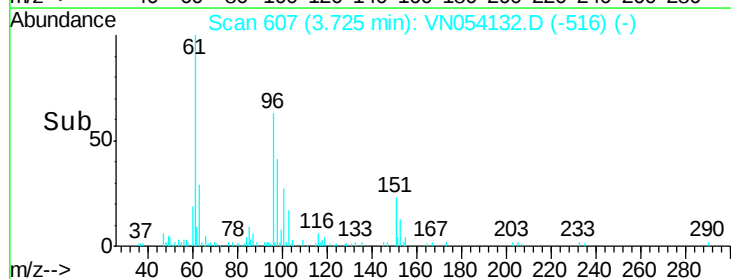
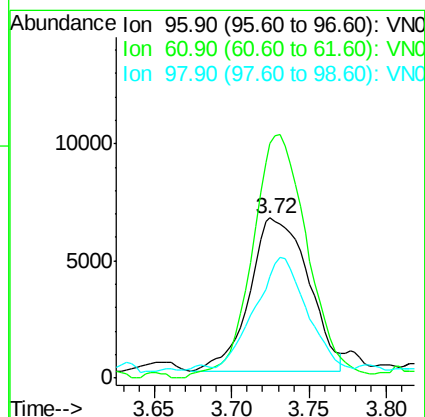
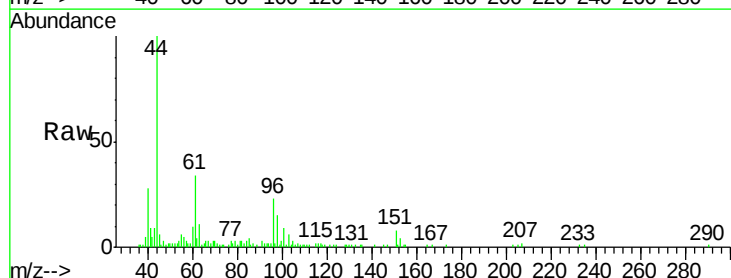
Tgt Ion: 96 Resp: 17345

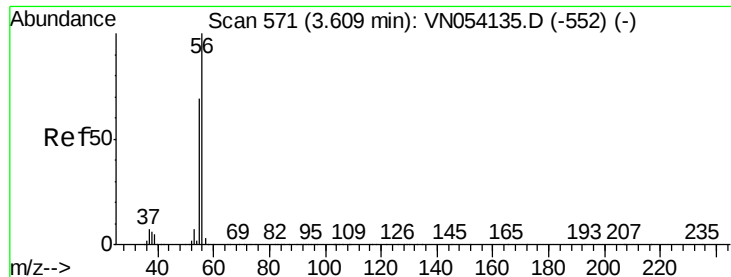
Ion Ratio Lower Upper

96 100

61 150.5 131.2 196.8

98 60.1 50.7 76.1





#13

Acrolein

Concen: 1.872 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

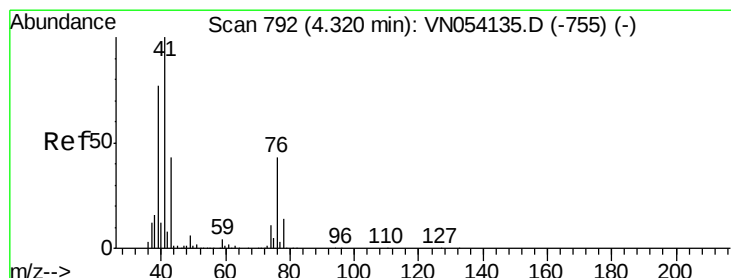
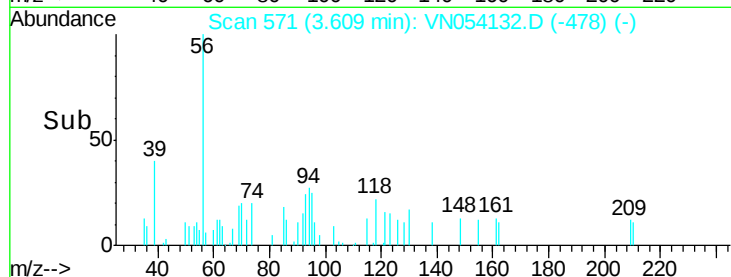
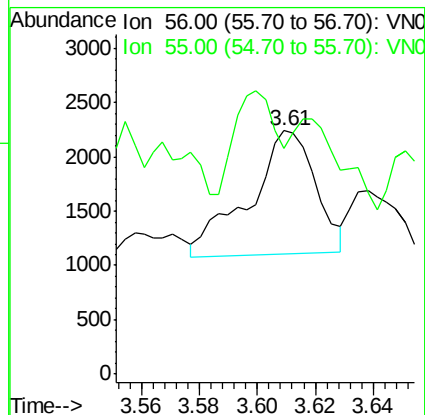
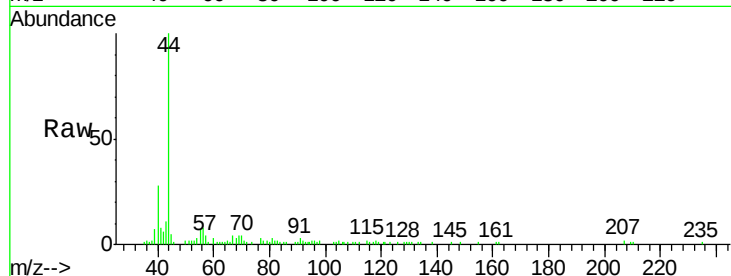
VSTDIC001

Tot Ion: 56 Resp: 1787

Ion Ratio Lower Upper

56 100

55 53.4 57.1 85.7#



#14

Allyl chloride

Concen: 1.046 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

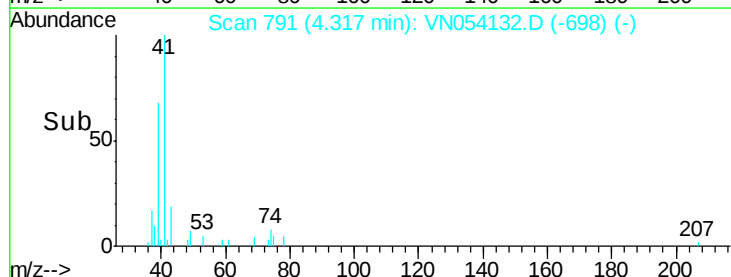
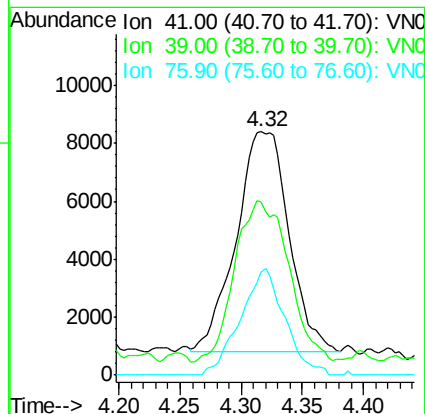
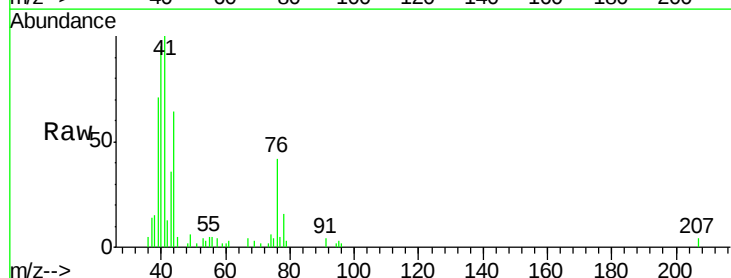
Tgt Ion: 41 Resp: 22886

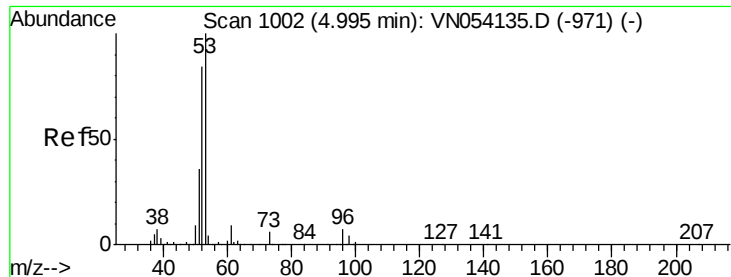
Ion Ratio Lower Upper

41 100

39 75.1 49.3 73.9#

76 40.4 26.5 39.7#

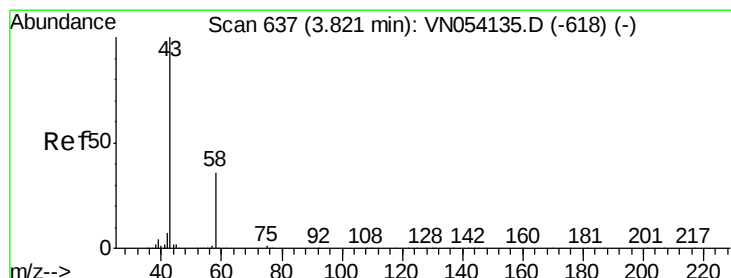
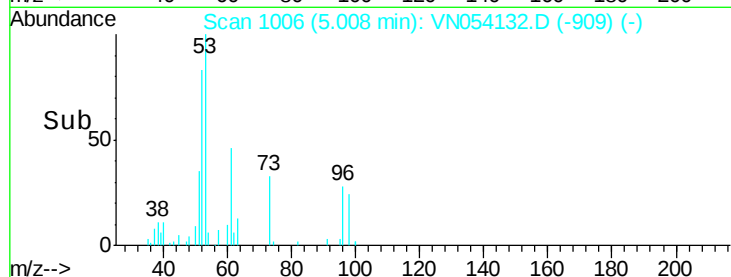
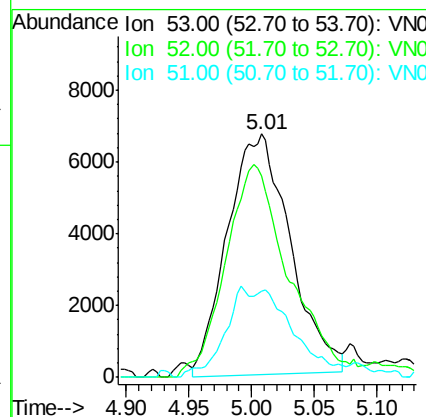
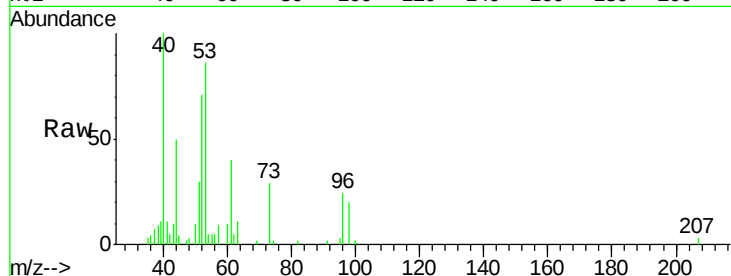




#15
 Acrylonitrile
 Concen: 4.907 ug/l
 RT: 5.01 min Scan# 1006
 Delta R.T. 0.01 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

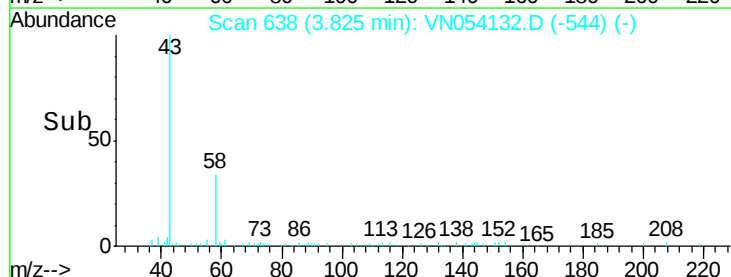
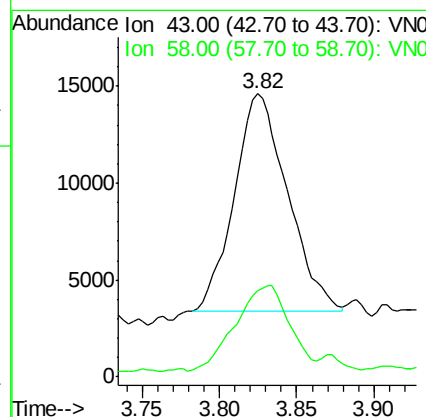
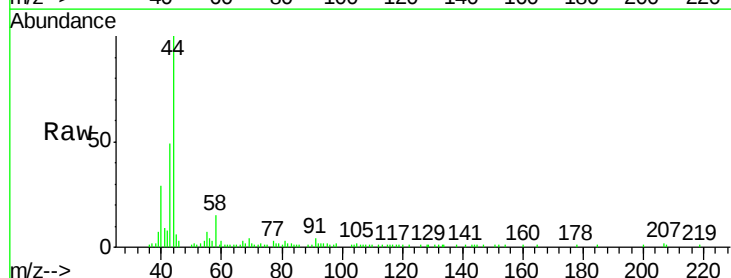
Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC001

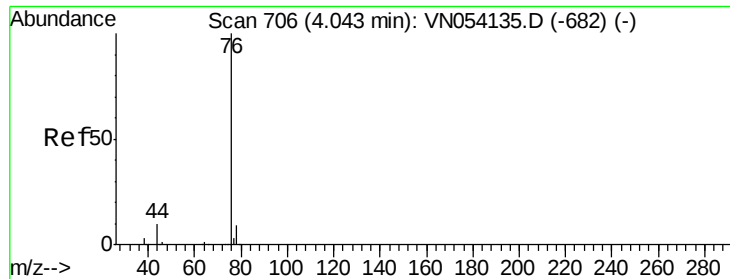
Tot Ion: 53 Resp: 23322
 Ion Ratio Lower Upper
 53 100
 52 89.7 64.6 97.0
 51 15.0 28.6 42.8#



#16
 Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 638
 Delta R.T. 0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Tgt Ion: 43 Resp: 26684
 Ion Ratio Lower Upper
 43 100
 58 36.6 26.5 39.7





#17

Carbon Disulfide

Concen: 1.216 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

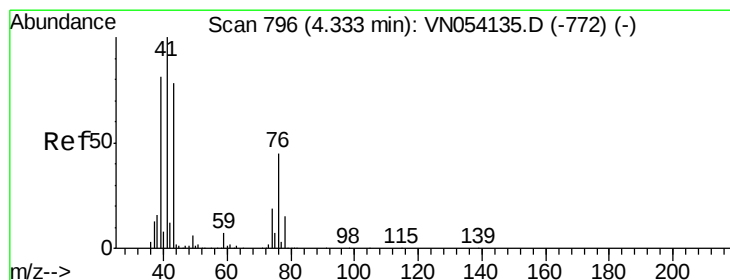
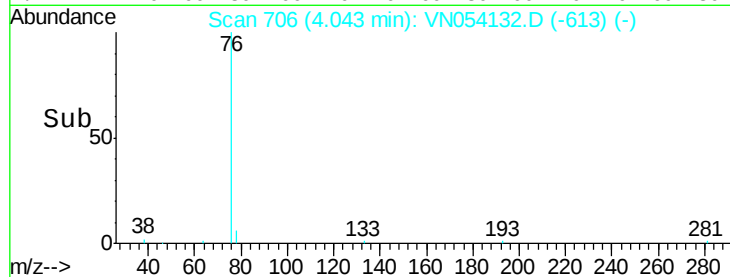
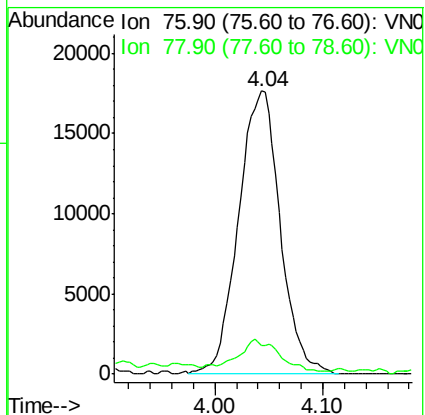
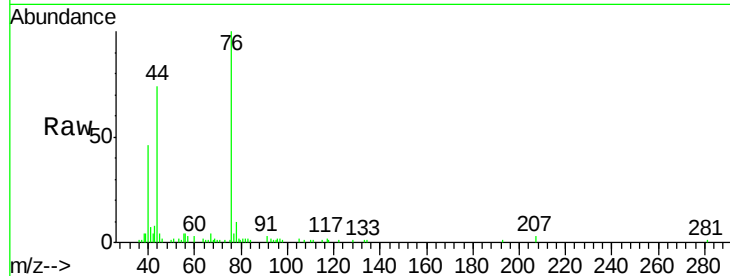
VSTDIC001

Tot Ion: 76 Resp: 47404

Ion Ratio Lower Upper

76 100

78 8.3 7.3 10.9



#18

Methyl Acetate

Concen: 0.896 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054132.D

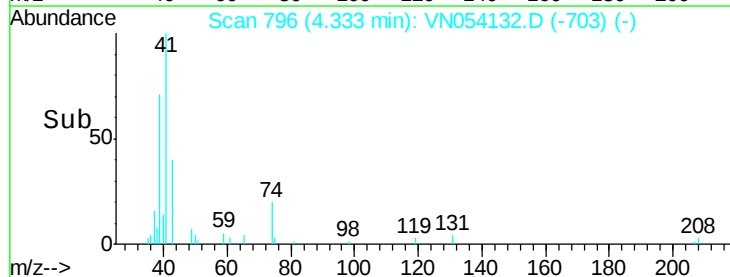
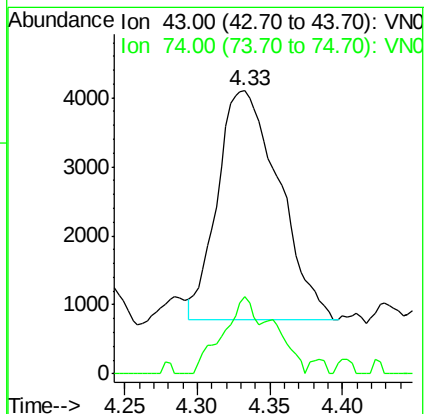
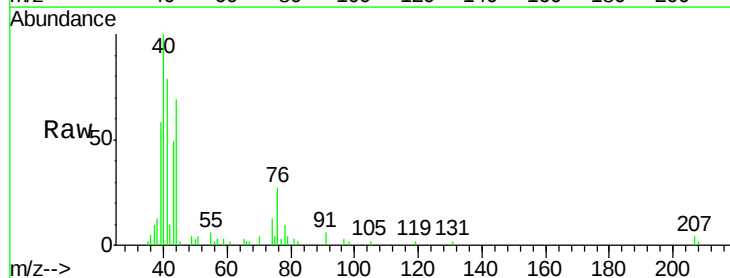
Acq: 11 Mar 2019 10:12

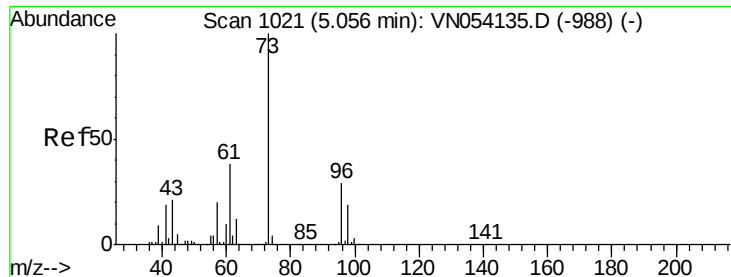
Tgt Ion: 43 Resp: 9811

Ion Ratio Lower Upper

43 100

74 18.1 18.2 27.2#

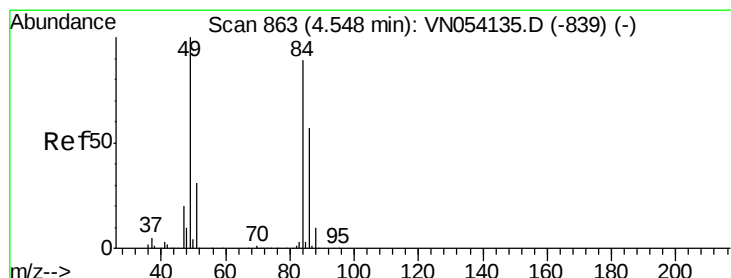
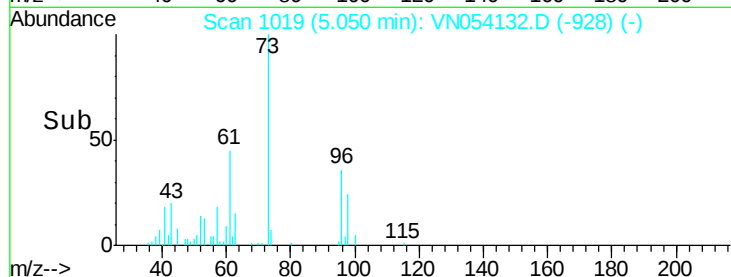
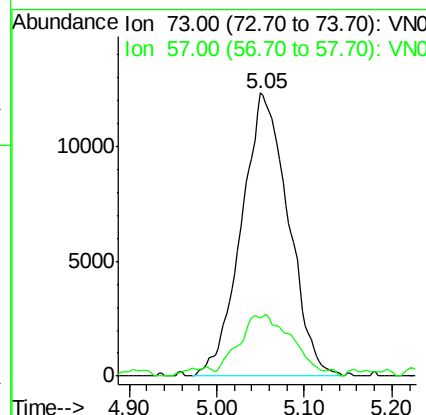
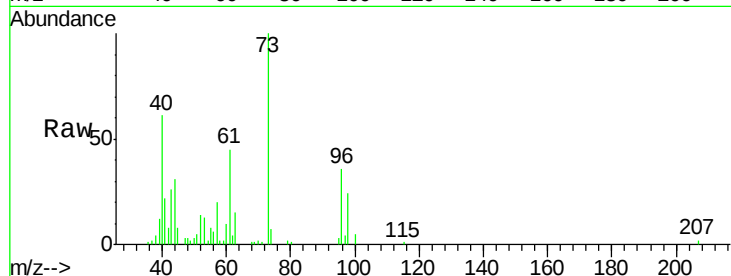




#19
Methyl tert-butyl Ether
Concen: 1.117 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.01 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

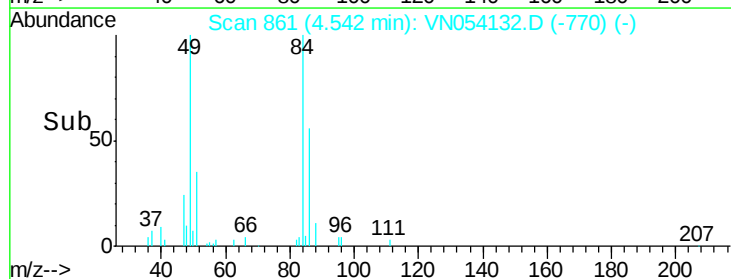
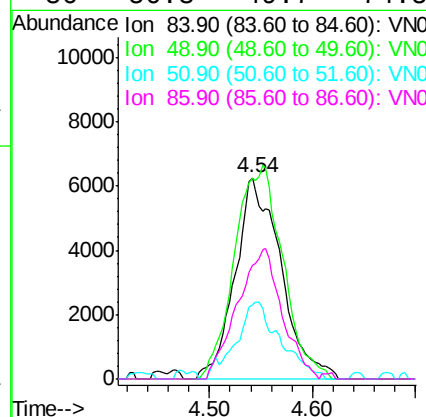
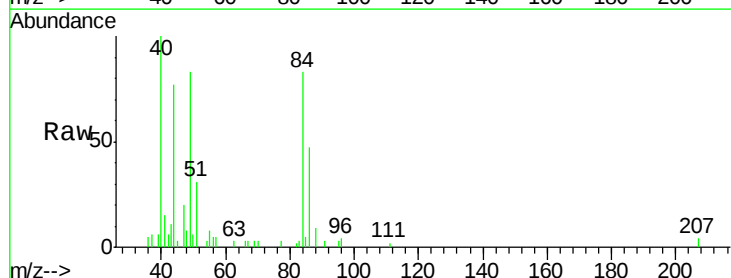
Instrument :
MSVOA_N
ClientSampled :
VSTDIC001

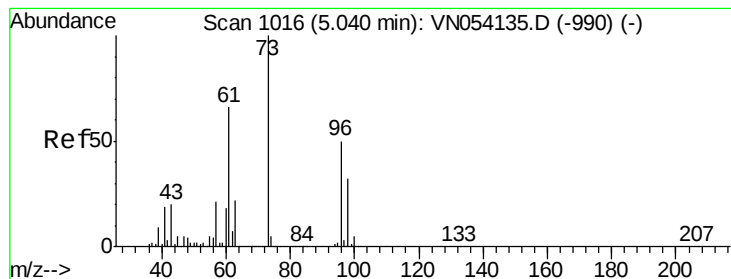
Tot Ion: 73 Resp: 45860
Ion Ratio Lower Upper
73 100
57 20.3 18.2 27.4



#20
Methylene Chloride
Concen: 1.258 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion: 84 Resp: 19277
Ion Ratio Lower Upper
84 100
49 99.5 101.8 152.8#
51 37.0 31.1 46.7
86 56.3 49.7 74.5





#21

trans-1,2-Dichloroethene

Concen: 1.155 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

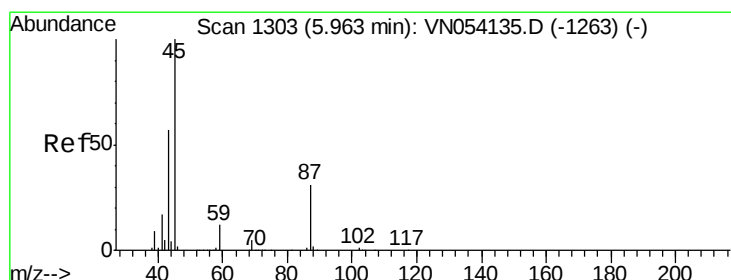
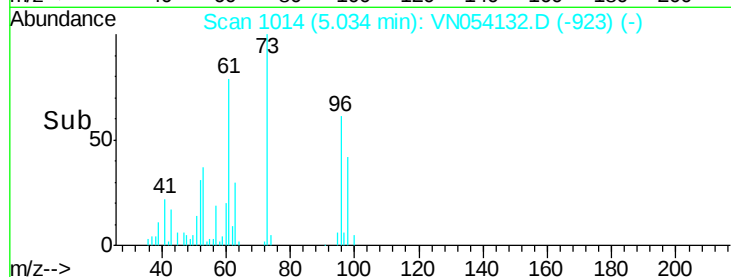
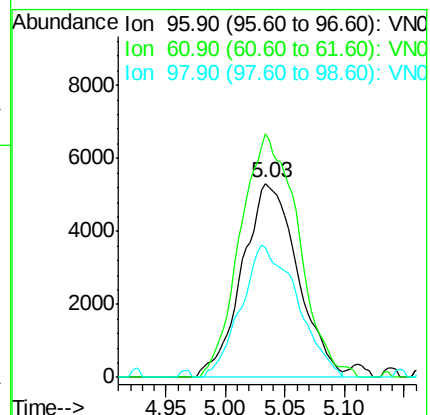
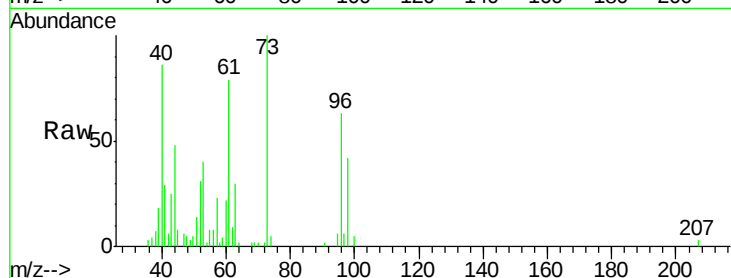
Tot Ion: 96 Resp: 17124

Ion Ratio Lower Upper

96 100

61 125.7 114.8 172.2

98 67.0 51.4 77.0



#22

Diisopropyl ether

Concen: 1.021 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Tgt Ion: 45 Resp: 41248

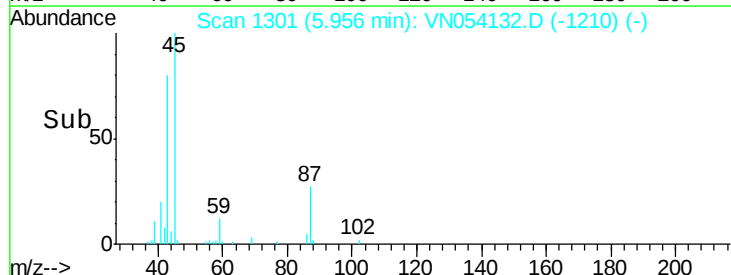
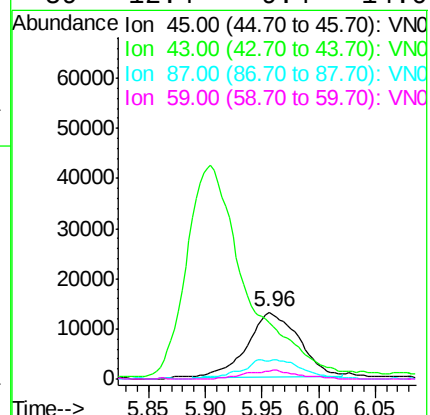
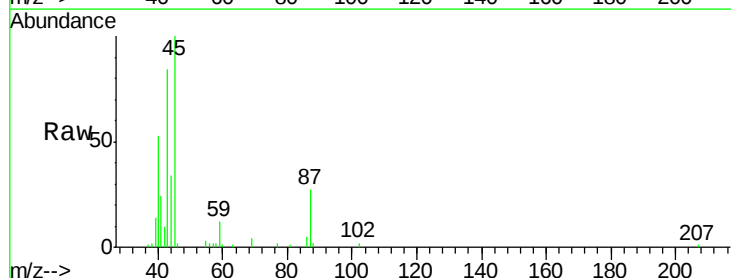
Ion Ratio Lower Upper

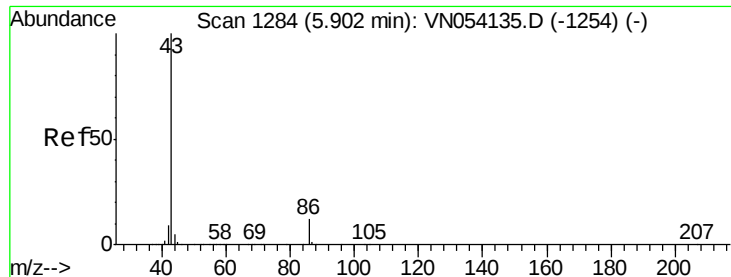
45 100

43 75.5 46.2 69.4#

87 27.8 20.6 31.0

59 12.4 9.4 14.0





#23

Vinyl Acetate

Concen: 5.069 ug/l

RT: 5.90 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

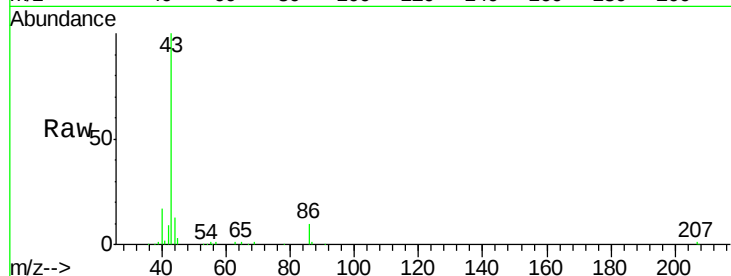
VSTDIC001

Tot Ion: 43 Resp: 154692

Ion Ratio Lower Upper

43 100

86 10.3 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

40000

30000

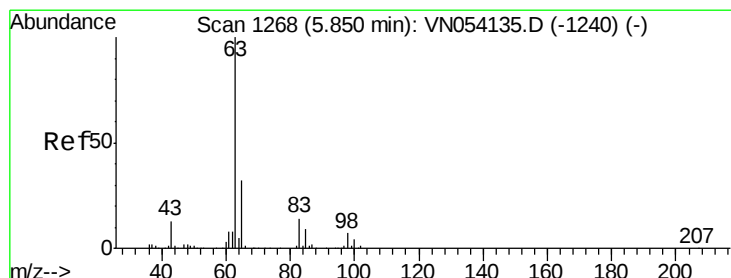
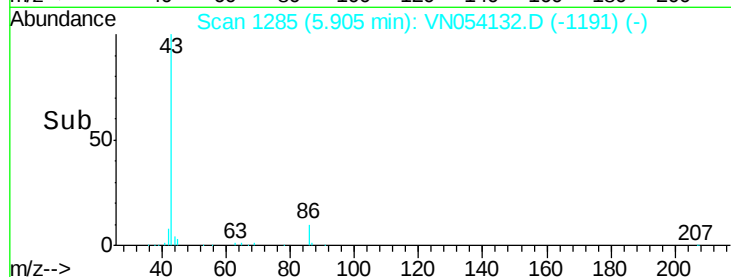
20000

10000

0

5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 1.154 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

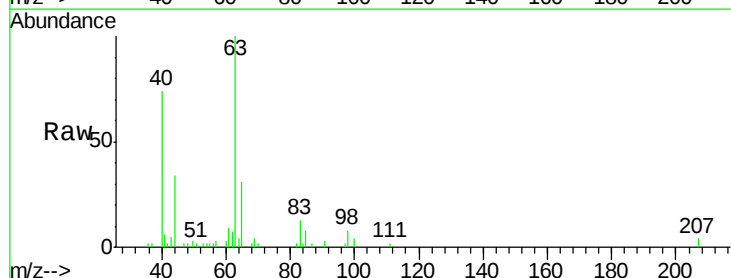
Tgt Ion: 63 Resp: 30247

Ion Ratio Lower Upper

63 100

98 8.1 3.1 9.4

100 3.8 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

12000

10000

8000

6000

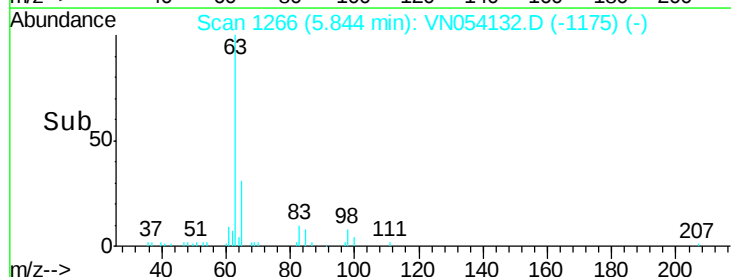
4000

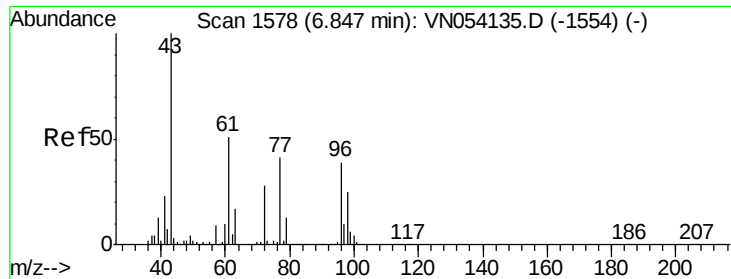
2000

0

5.70 5.80 5.90

Time-->





#25

2-Butanone

Concen: 4.721 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

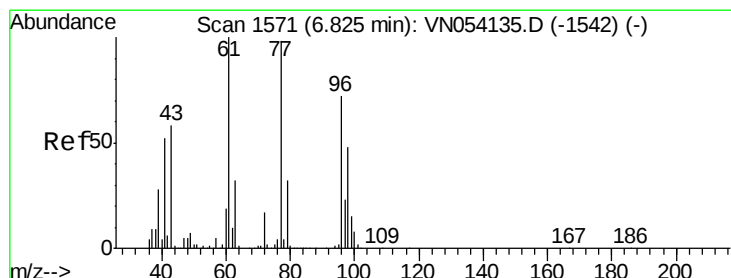
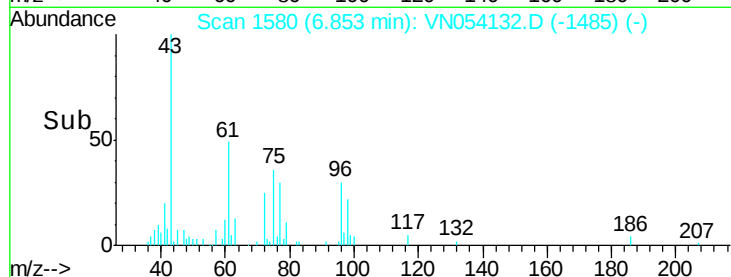
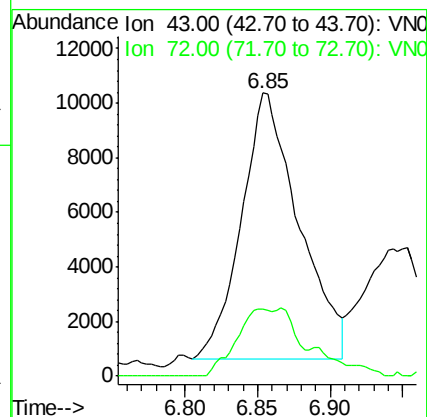
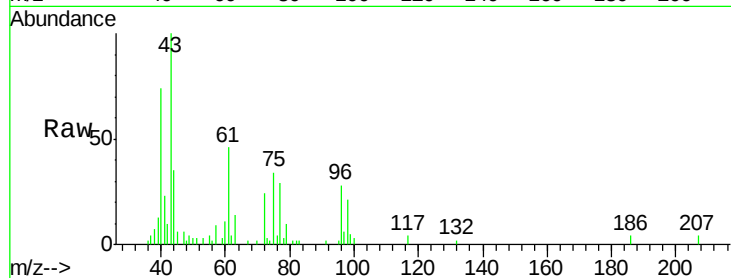
VSTDIC001

Tot Ion: 43 Resp: 26834

Ion Ratio Lower Upper

43 100

72 25.2 20.2 30.2



#26

2,2-Dichloropropane

Concen: 1.171 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054132.D

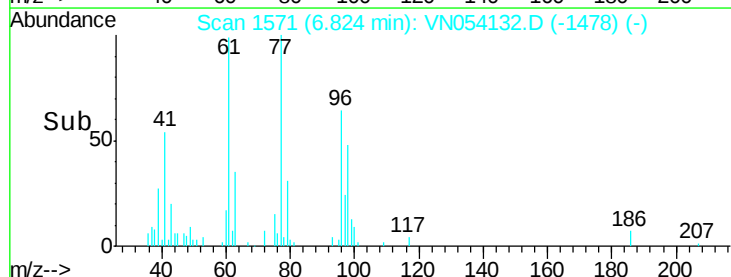
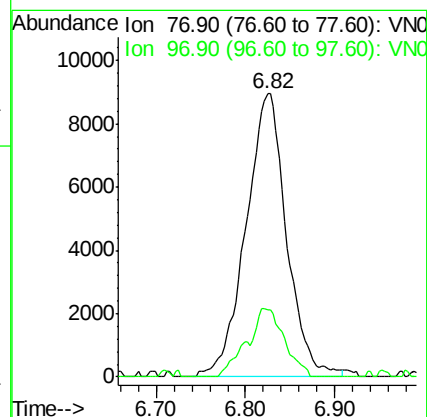
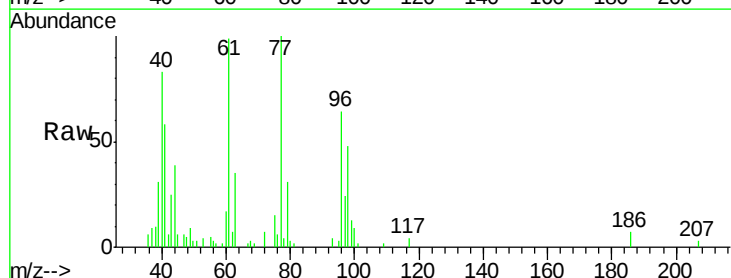
Acq: 11 Mar 2019 10:12

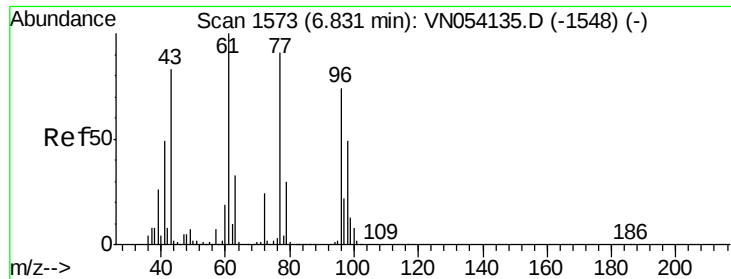
Tgt Ion: 77 Resp: 28332

Ion Ratio Lower Upper

77 100

97 22.2 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 1.061 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

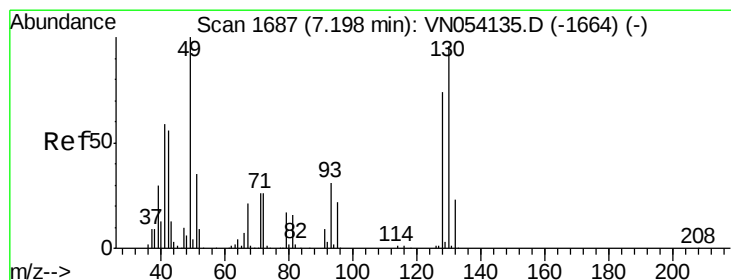
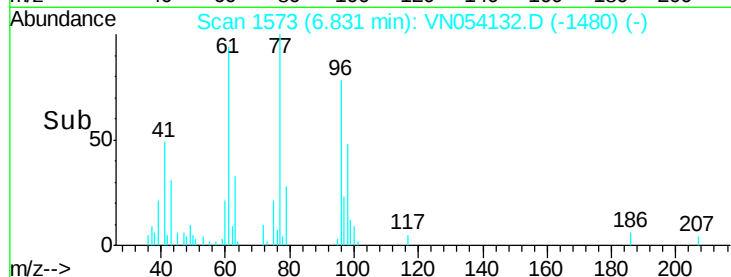
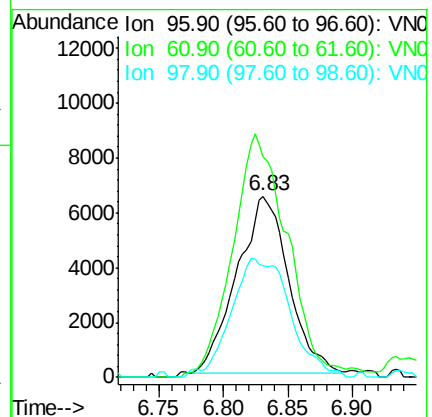
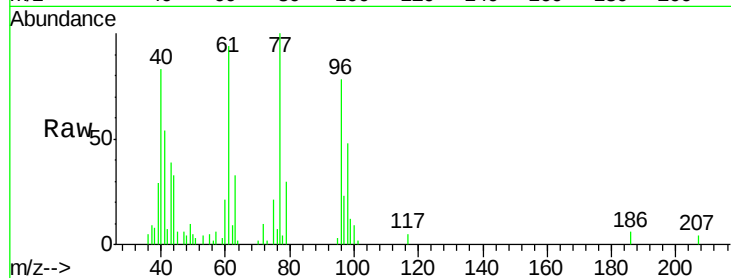
Tot Ion: 96 Resp: 17997

Ion Ratio Lower Upper

96 100

61 145.3 0.0 297.0

98 76.7 0.0 129.4



#28

Bromochloromethane

Concen: 0.905 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

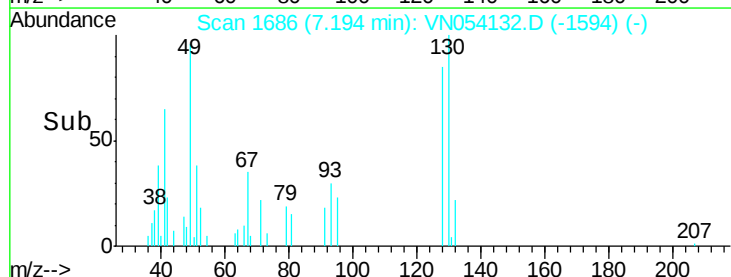
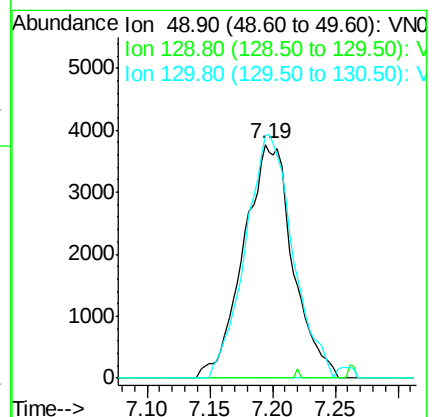
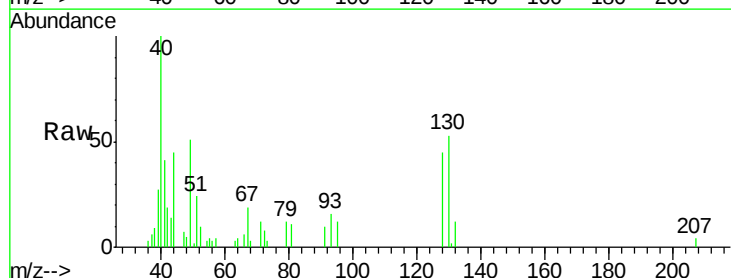
Tgt Ion: 49 Resp: 10307

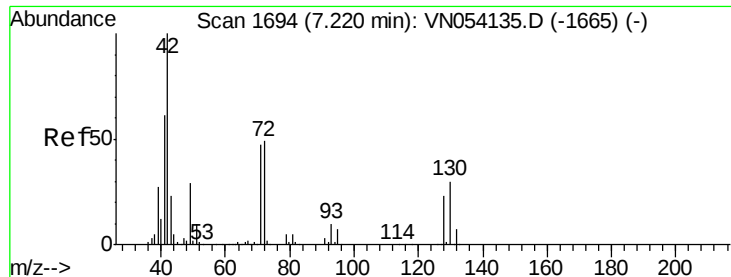
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 100.3 59.4 89.2#

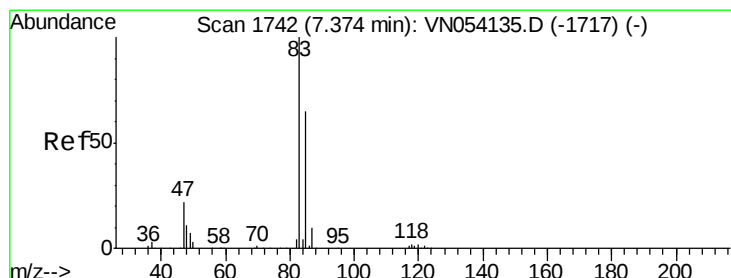
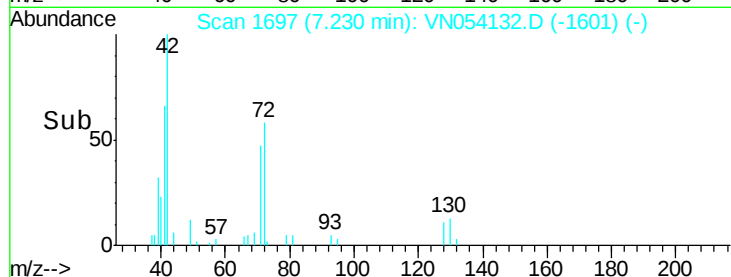
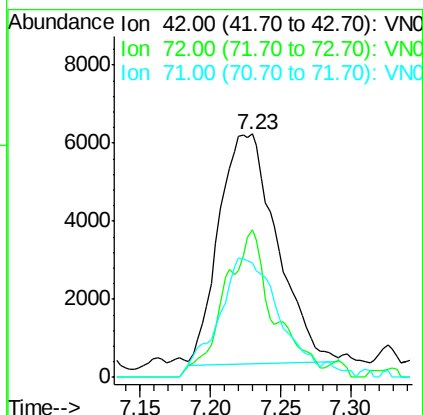
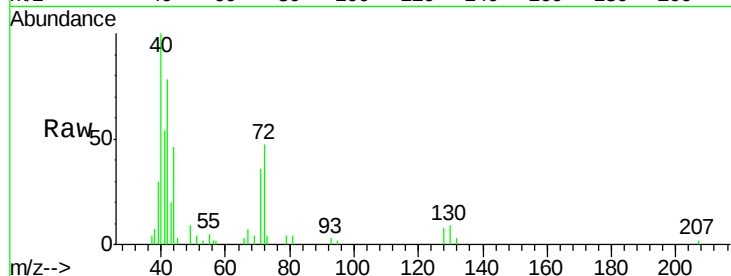




#29
Tetrahydrofuran
Concen: 4.622 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

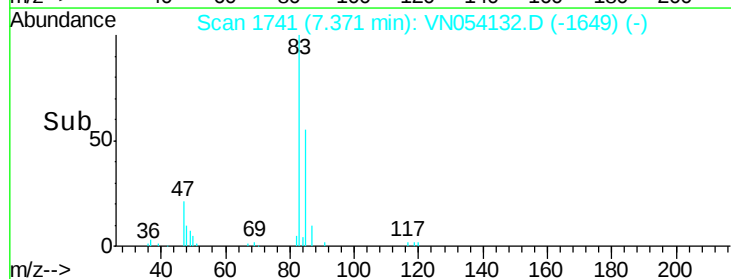
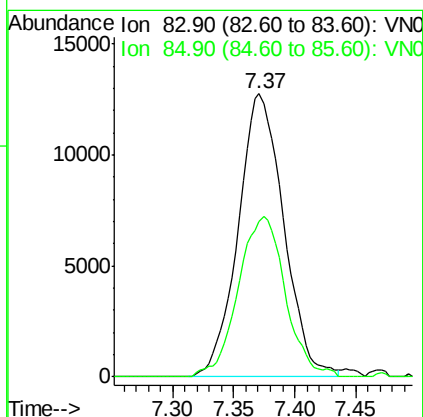
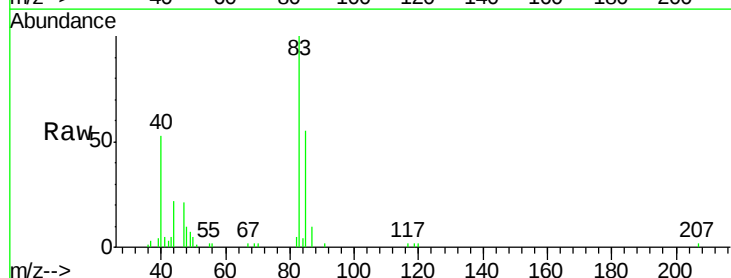
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

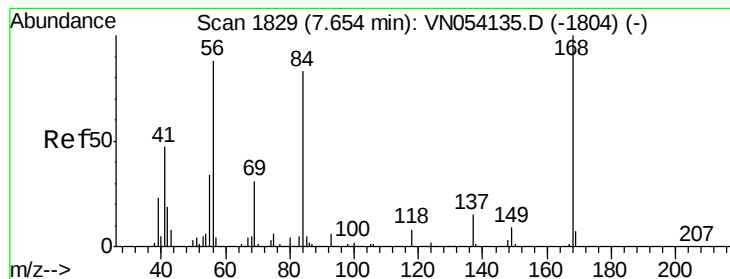
Tot Ion: 42 Resp: 16881
Ion Ratio Lower Upper
42 100
72 54.5 32.8 49.2#
71 53.8 30.5 45.7#



#30
Chloroform
Concen: 1.189 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion: 83 Resp: 32992
Ion Ratio Lower Upper
83 100
85 54.7 53.1 79.7





#31

Cyclohexane

Concen: 1.092 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

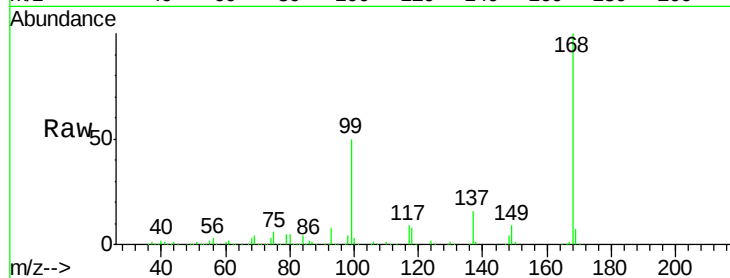
Tot Ion: 56 Resp: 49038

Ion Ratio Lower Upper

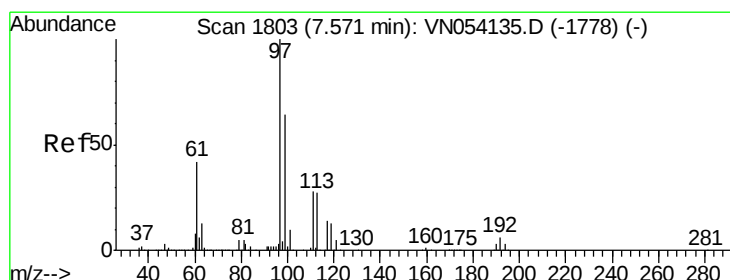
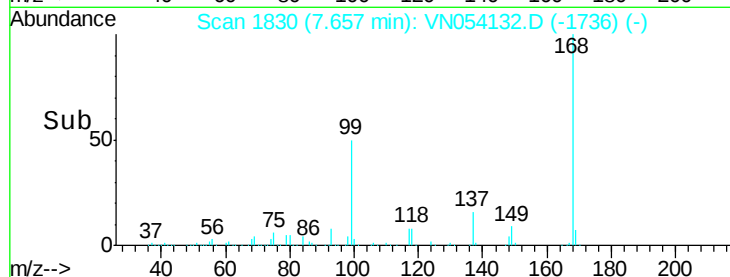
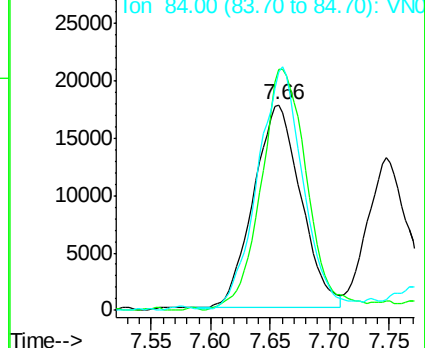
56 100

69 117.2 25.5 38.3#

84 116.2 64.5 96.7#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 1.138 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

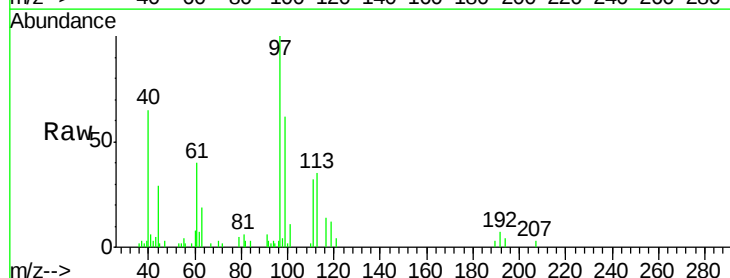
Tgt Ion: 97 Resp: 28587

Ion Ratio Lower Upper

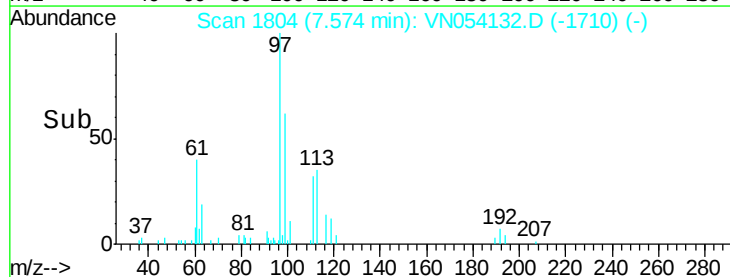
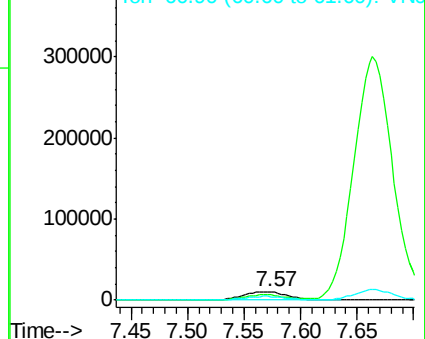
97 100

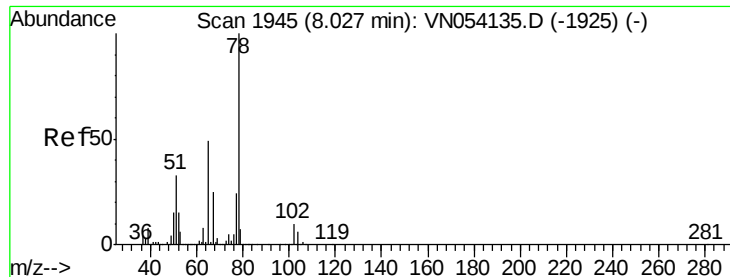
99 0.0 51.2 76.8#

61 42.8 37.1 55.7



Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 98.90 (98.60 to 99.60): VNO
Ion 60.90 (60.60 to 61.60): VNO

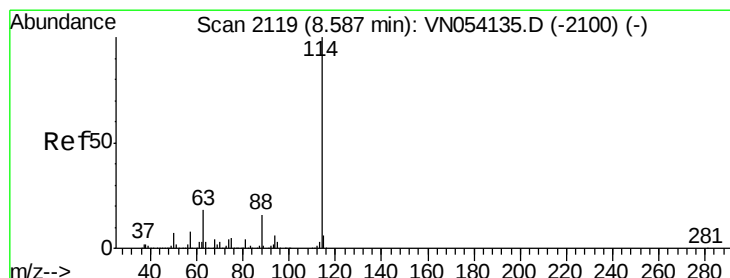
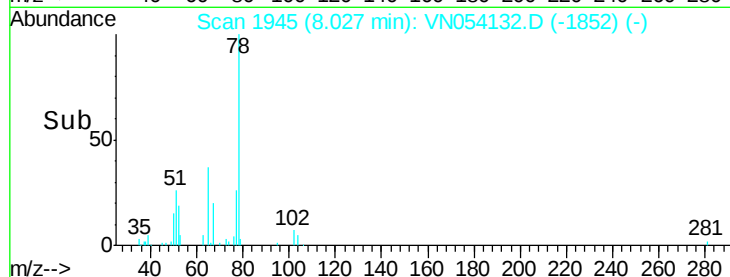
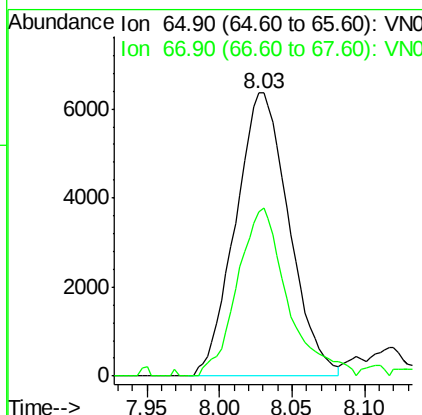
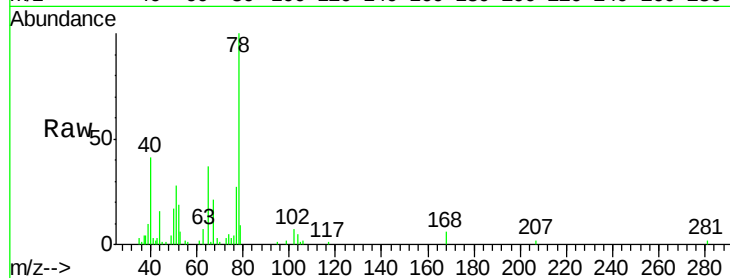




#33
 1,2-Dichloroethane-d4
 Concen: 0.956 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

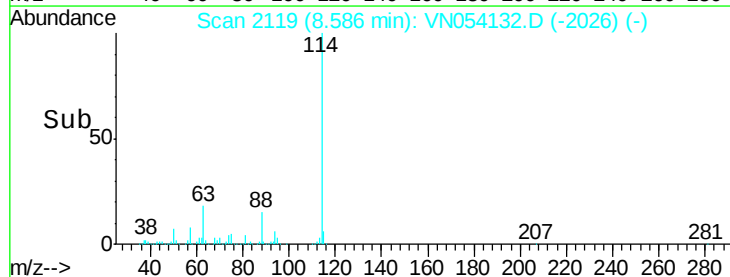
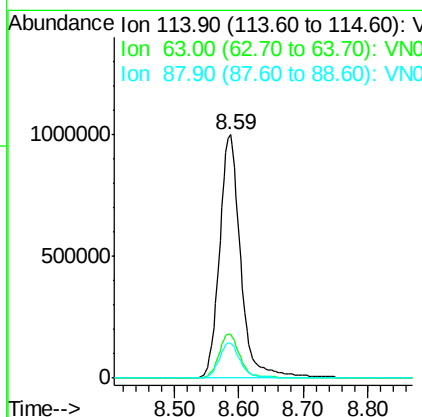
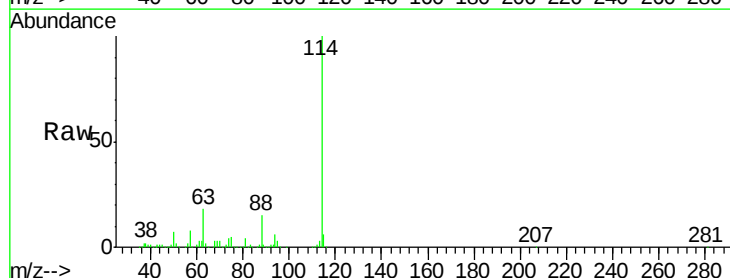
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

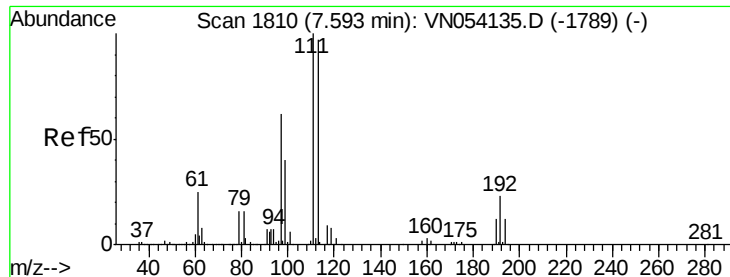
Tot Ion: 65 Resp: 16289
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 109.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Tgt Ion: 114 Resp: 2287556
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 42.6
 88 14.6 0.0 31.8

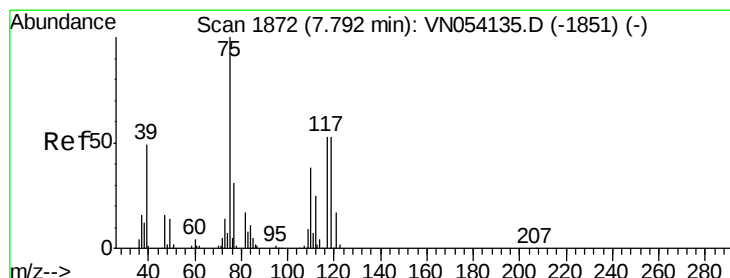
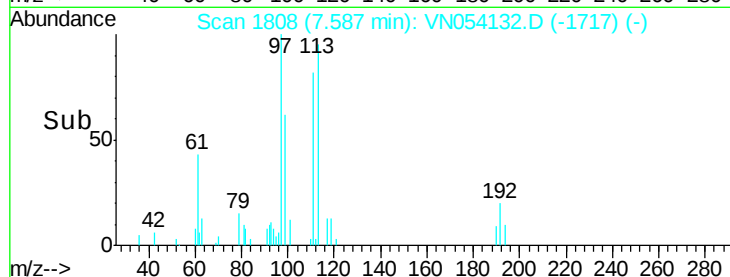
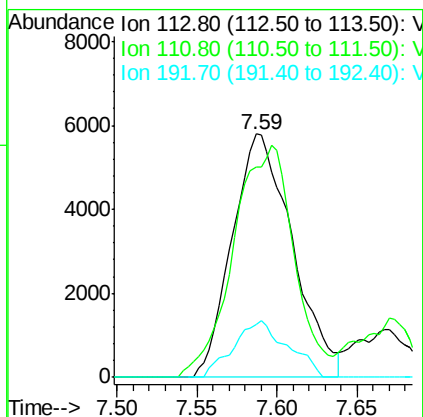
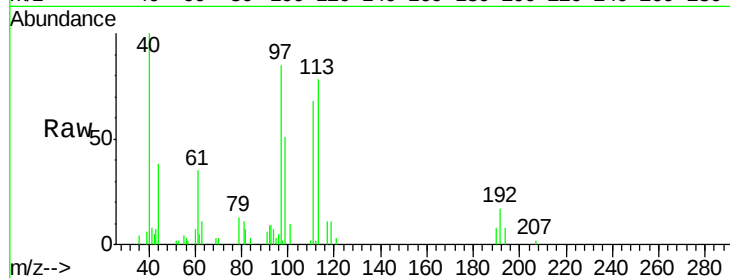




#35
 Dibromofluoromethane
 Concen: 1.013 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.01 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

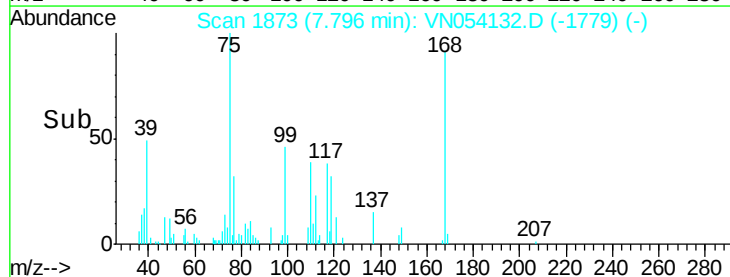
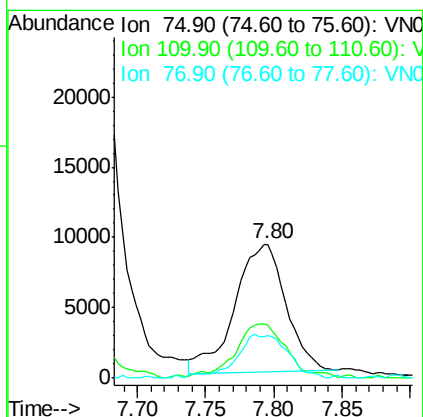
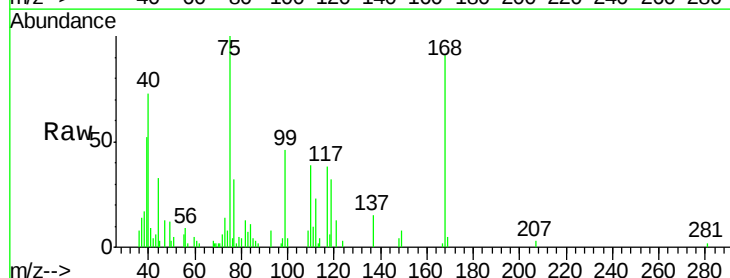
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

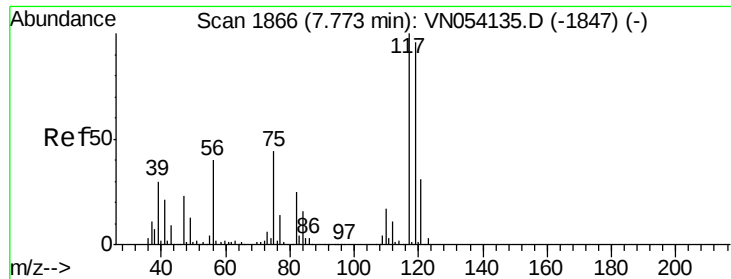
Tot Ion	Ratio	Lower	Upper
113	100		
111	96.0	82.1	123.1
192	20.9	17.4	26.0



#36
 1,1-Dichloropropene
 Concen: 1.191 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	40.6	18.0	54.0
77	18.5	25.3	37.9#

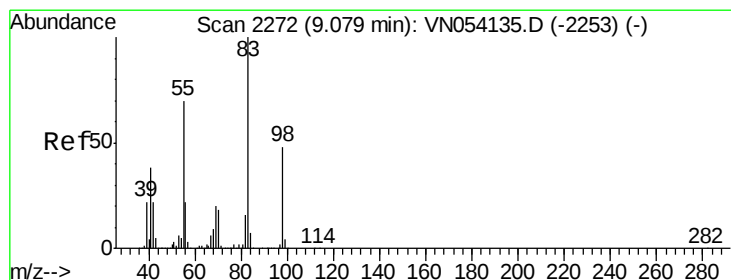
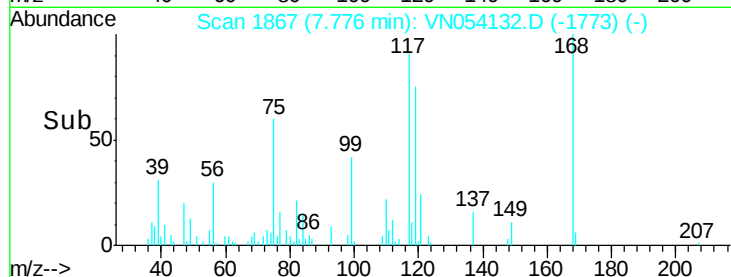
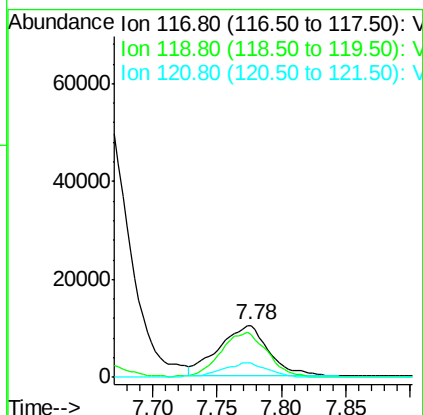
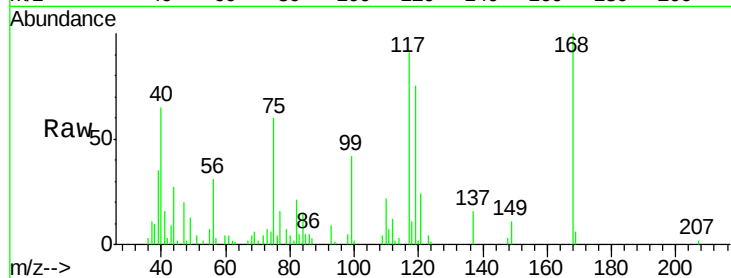




#38
Carbon Tetrachloride
Concen: 1.247 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

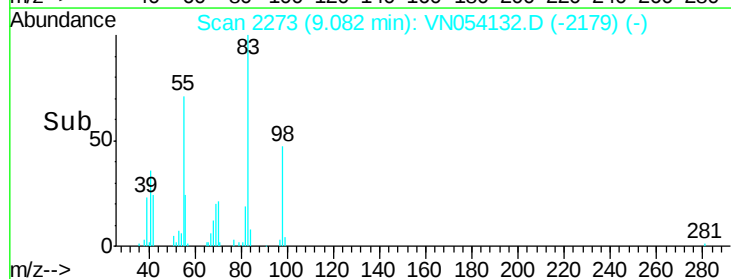
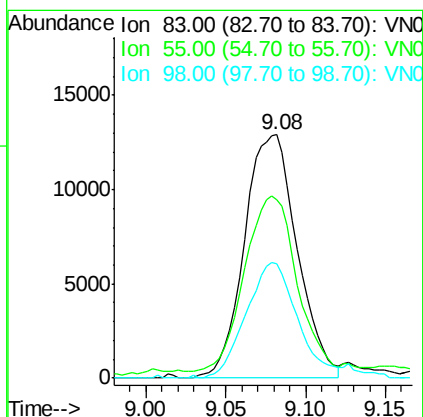
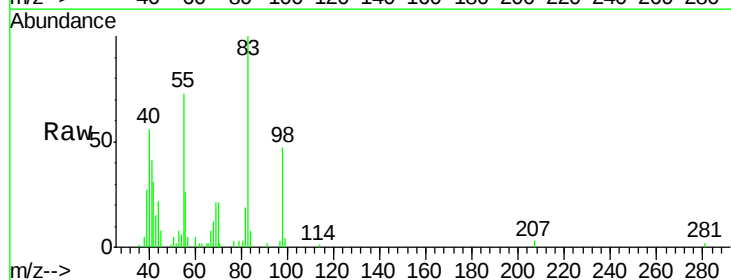
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

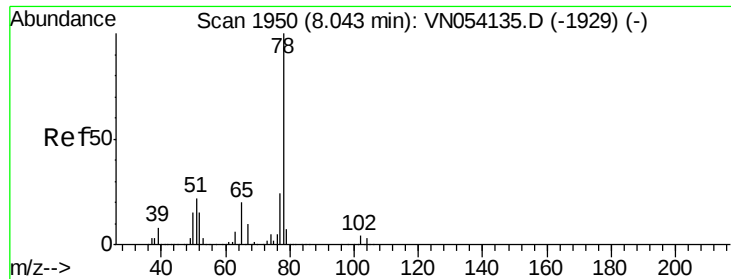
Tot Ion:117 Resp: 27525
Ion Ratio Lower Upper
117 100
119 85.8 77.0 115.6
121 27.7 24.3 36.5



#39
Methylcyclohexane
Concen: 1.192 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion: 83 Resp: 29208
Ion Ratio Lower Upper
83 100
55 70.8 62.1 93.1
98 46.7 36.0 54.0





#40

Benzene

Concen: 1.123 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

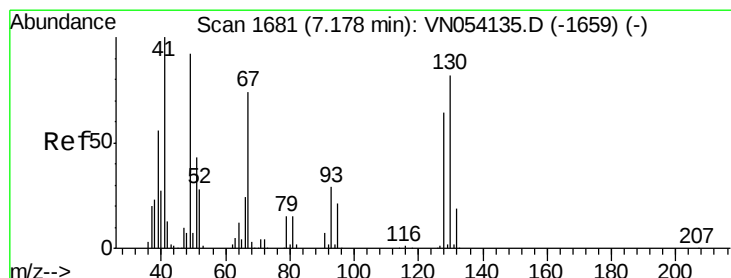
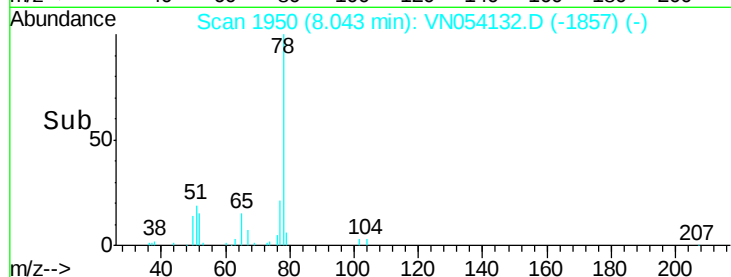
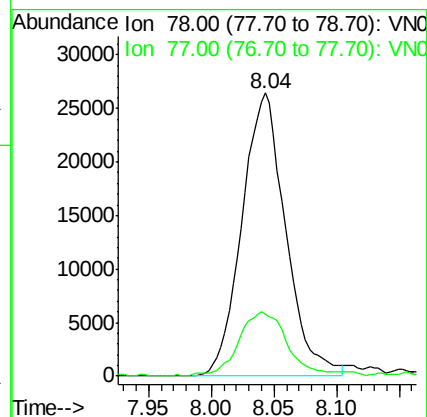
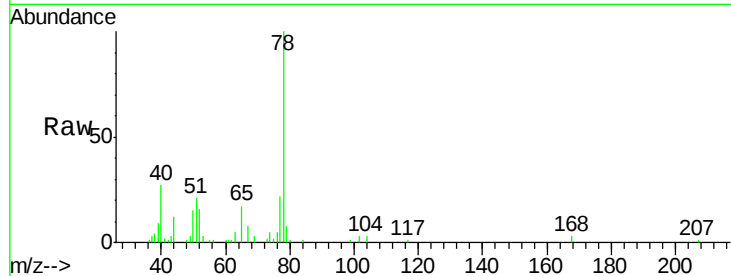
VSTDIC001

Tot Ion: 78 Resp: 64245

Ion Ratio Lower Upper

78 100

77 21.3 18.7 28.1



#41

Methacrylonitrile

Concen: 0.836 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Tgt Ion: 41 Resp: 5617

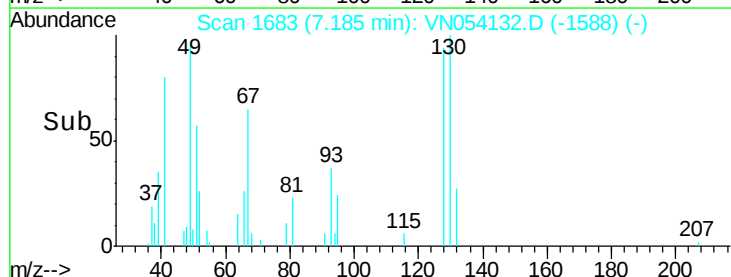
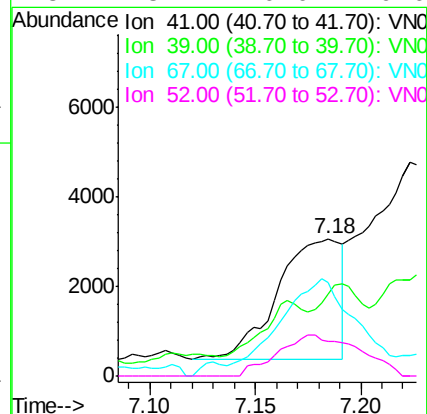
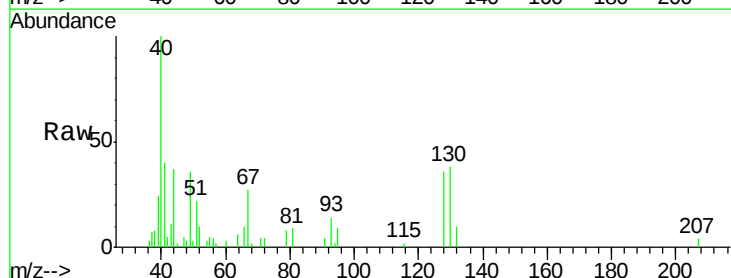
Ion Ratio Lower Upper

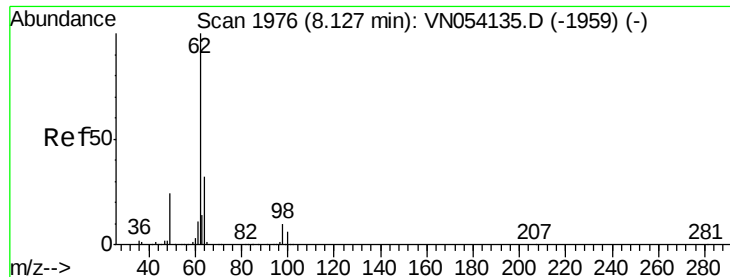
41 100

39 43.4 0.0 0.0#

67 80.4 0.0 0.0#

52 43.7 0.0 0.0#





#42

1,2-Dichloroethane

Concen: 1.128 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

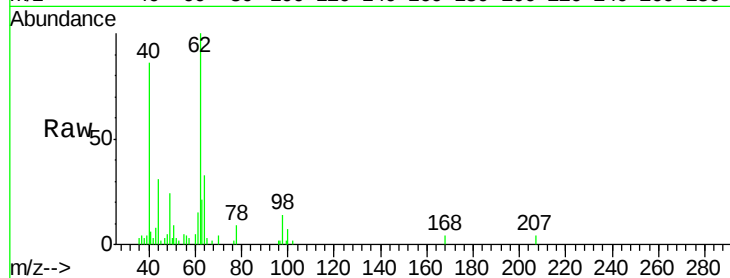
VSTDIC001

Tot Ion: 62 Resp: 22241

Ion Ratio Lower Upper

62 100

98 10.9 0.0 18.6



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

8.13

10000

8000

6000

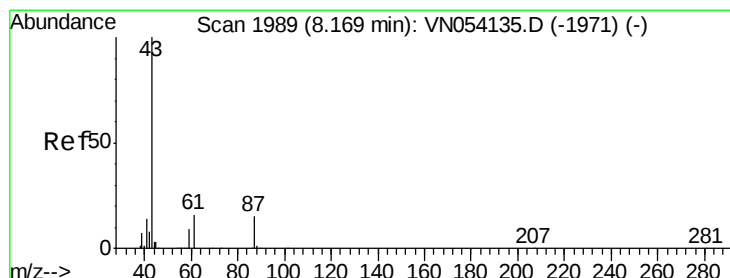
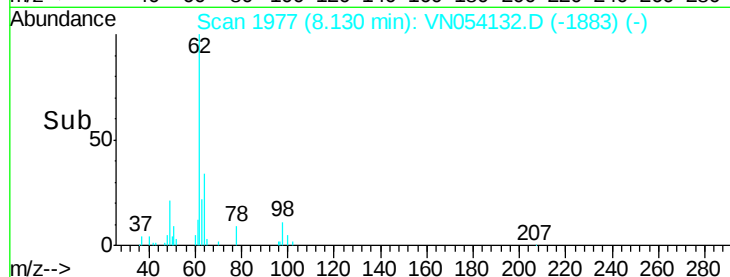
4000

2000

0

Time-->

8.05 8.10 8.15 8.20



#43

Isopropyl Acetate

Concen: 1.025 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

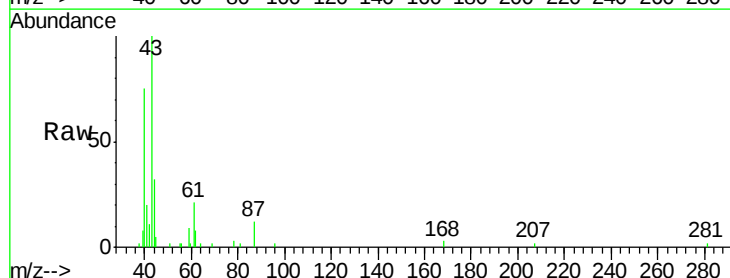
Tgt Ion: 43 Resp: 21991

Ion Ratio Lower Upper

43 100

61 22.2 22.5 33.7#

87 13.8 10.1 15.1



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

8.17

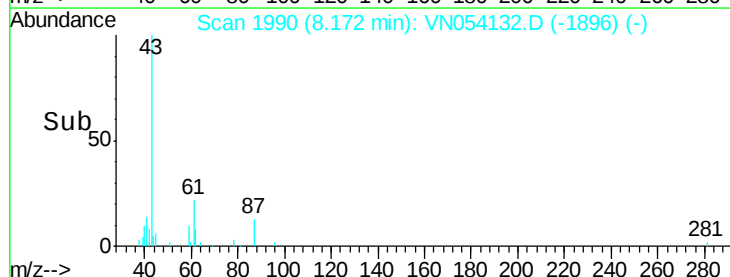
10000

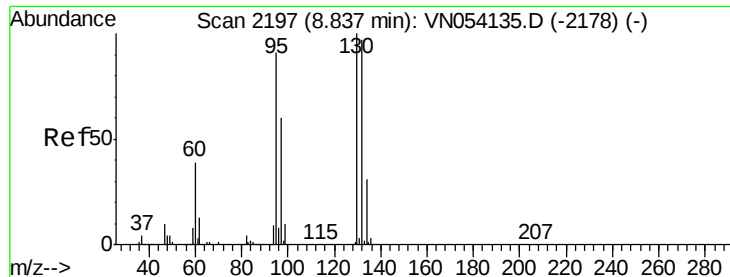
5000

0

Time-->

8.10 8.15 8.20





#44

Trichloroethene

Concen: 1.137 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

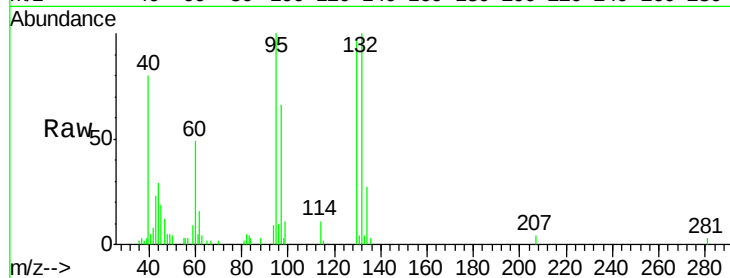
VSTDIC001

Tot Ion:130 Resp: 20077

Ion Ratio Lower Upper

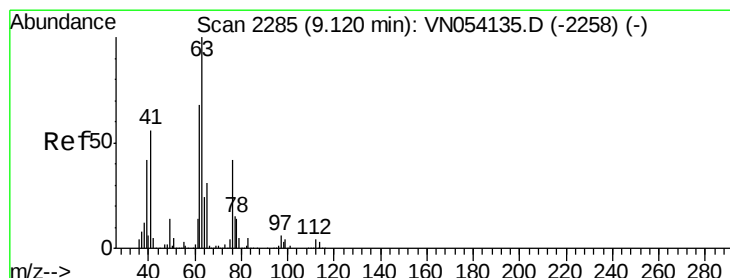
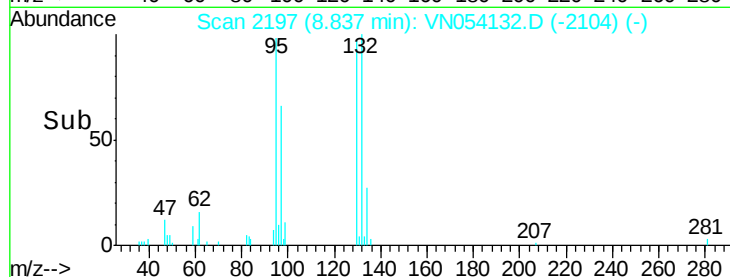
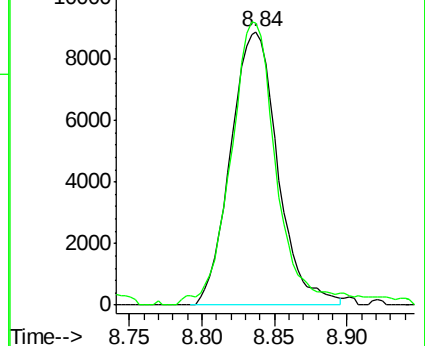
130 100

95 100.1 0.0 189.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VNO



#45

1,2-Dichloropropane

Concen: 1.141 ug/l

RT: 9.12 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN054132.D

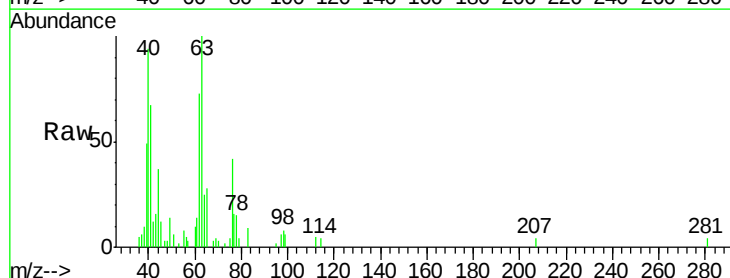
Acq: 11 Mar 2019 10:12

Tgt Ion: 63 Resp: 16684

Ion Ratio Lower Upper

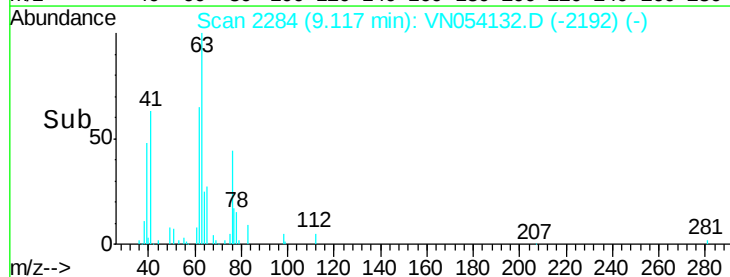
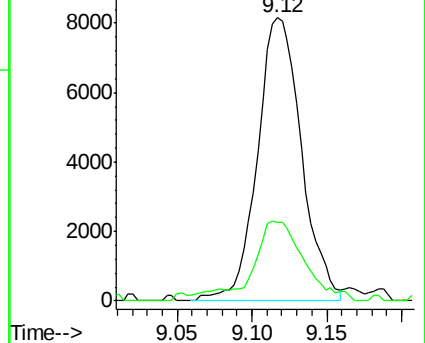
63 100

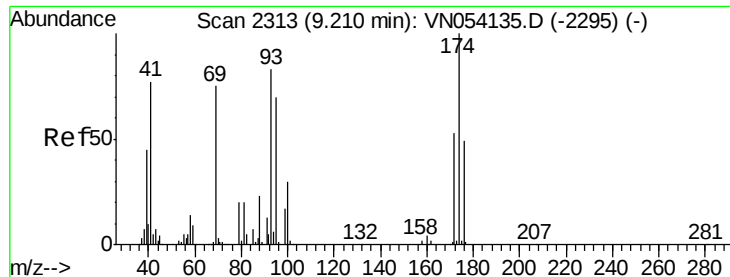
65 25.9 24.6 36.8



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO





#46

Dibromomethane

Concen: 1.180 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

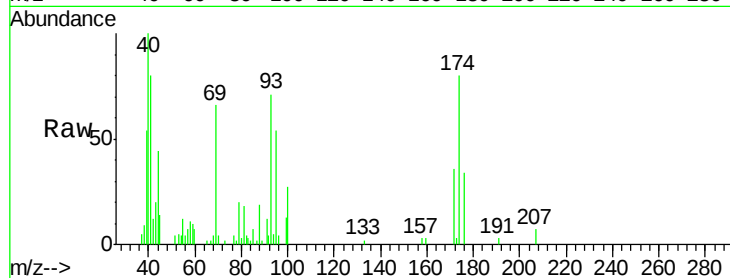
Tot Ion: 93 Resp: 11701

Ion Ratio Lower Upper

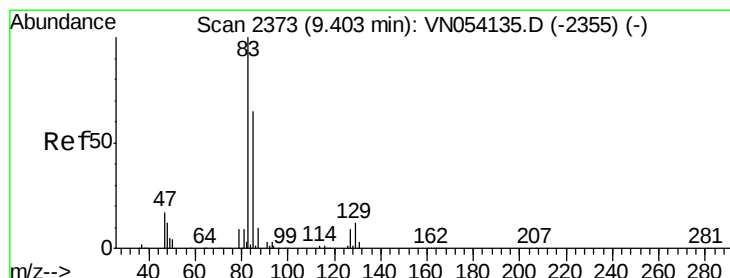
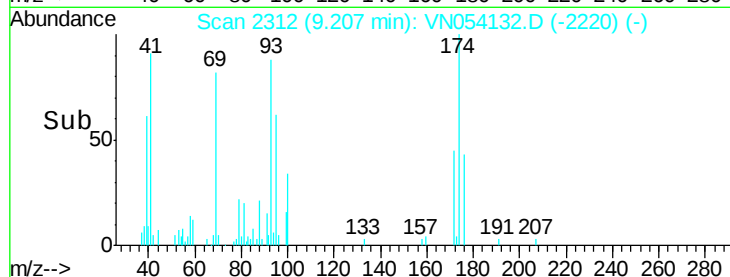
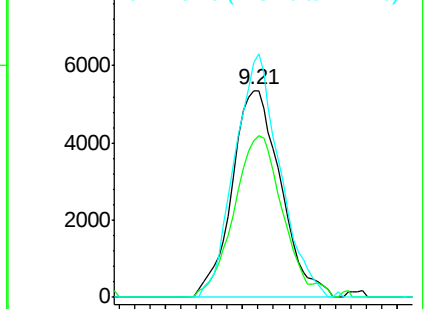
93 100

95 78.2 66.1 99.1

174 109.0 86.1 129.1



Abundance Ion 92.80 (92.50 to 93.50): VNO
Ion 94.80 (94.50 to 95.50): VNO
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 1.132 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

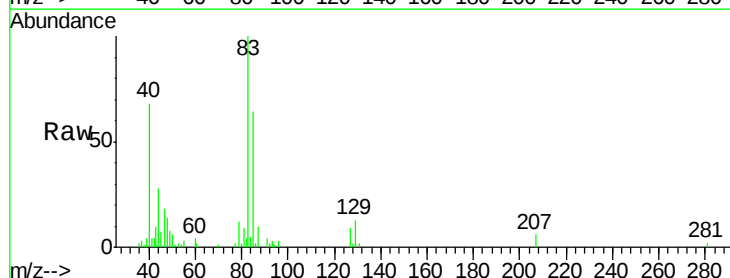
Tgt Ion: 83 Resp: 23263

Ion Ratio Lower Upper

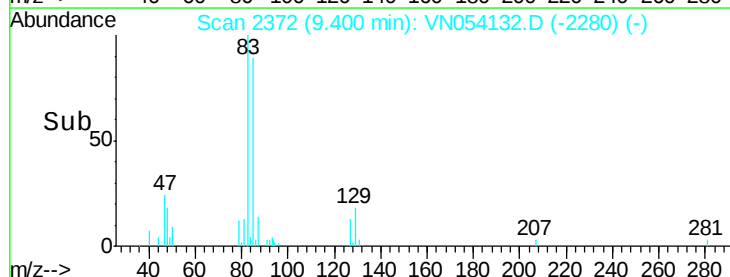
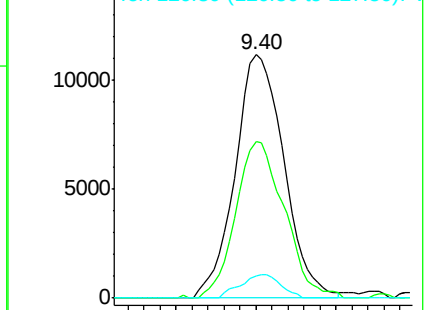
83 100

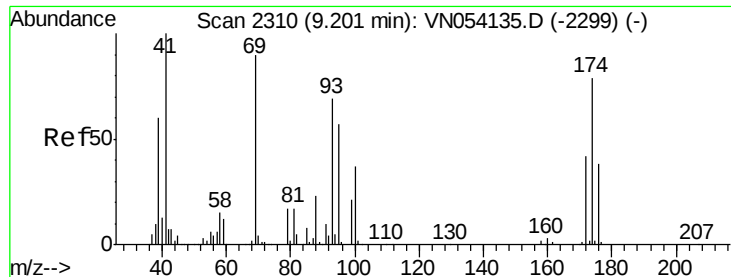
85 64.1 51.0 76.4

127 9.3 6.5 9.7



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 0.889 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

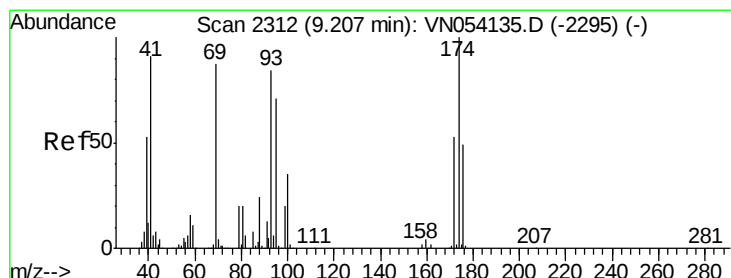
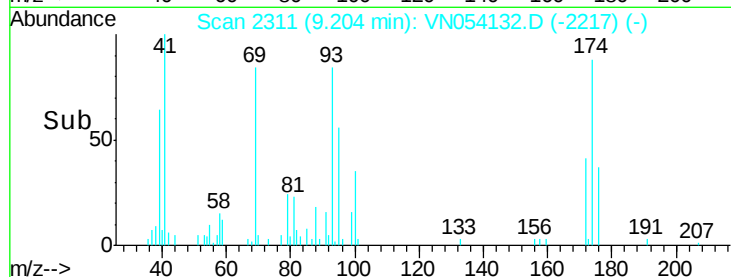
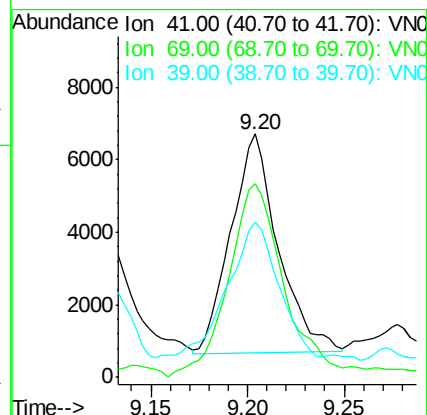
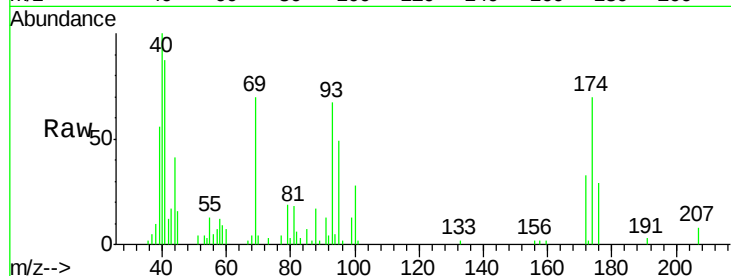
Tot Ion: 41 Resp: 10254

Ion Ratio Lower Upper

41 100

69 105.5 71.0 106.4

39 69.1 43.7 65.5#



#49

1,4-Dioxane

Concen: 21.805 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

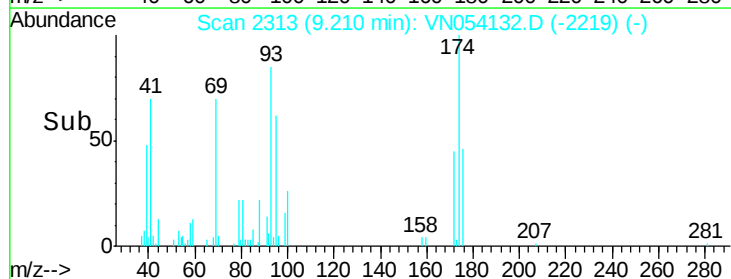
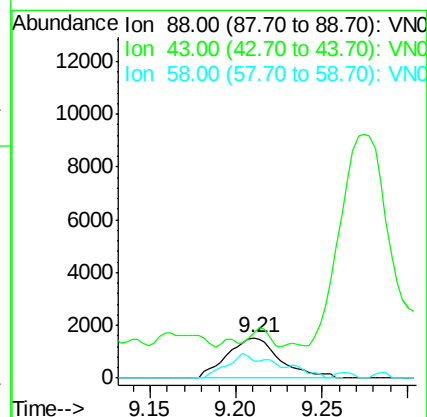
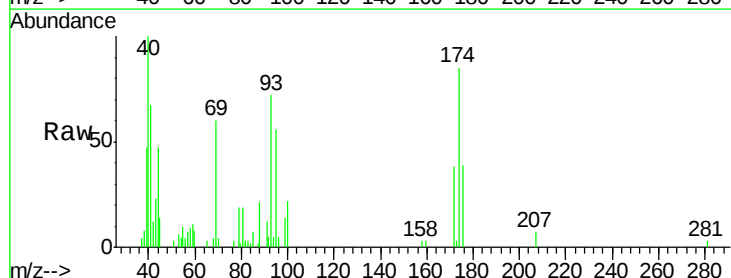
Tgt Ion: 88 Resp: 3264

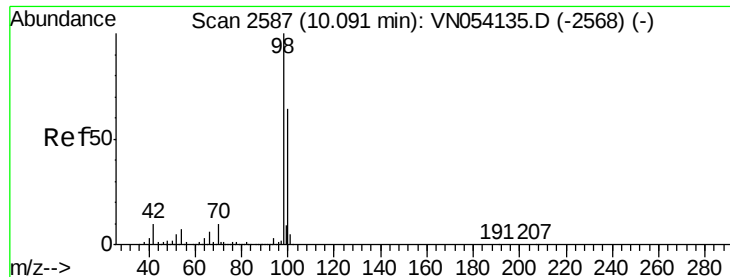
Ion Ratio Lower Upper

88 100

43 16.3 25.5 38.3#

58 33.8 58.3 87.5#





#50

Toluene-d8

Concen: 0.962 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

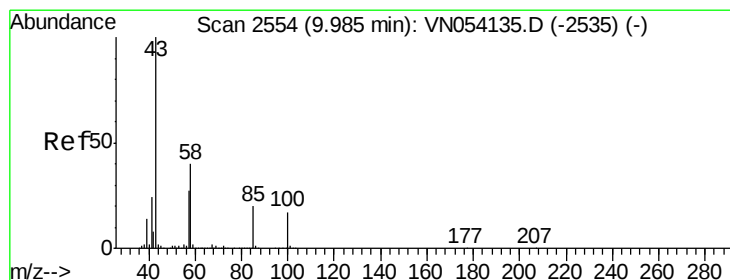
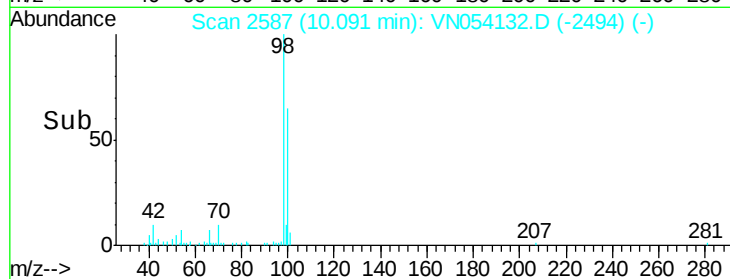
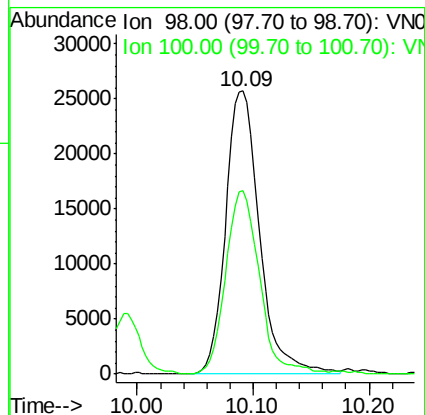
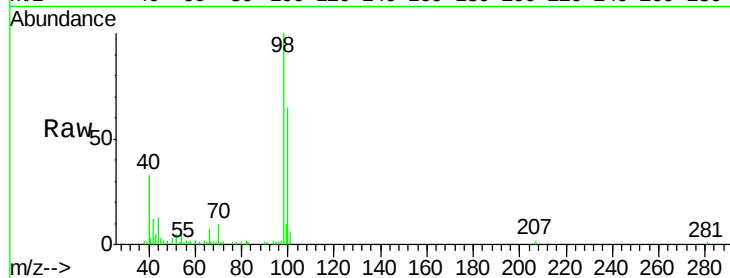
VSTDIC001

Tot Ion: 98 Resp: 52309

Ion Ratio Lower Upper

98 100

100 64.6 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 4.905 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054132.D

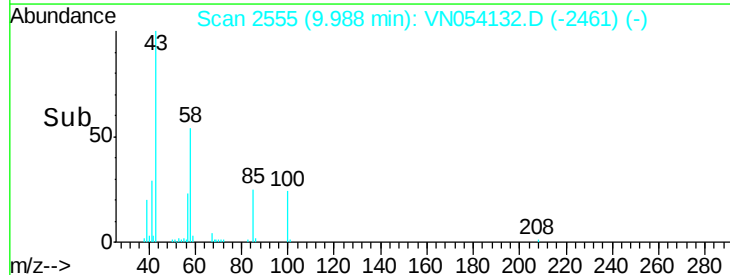
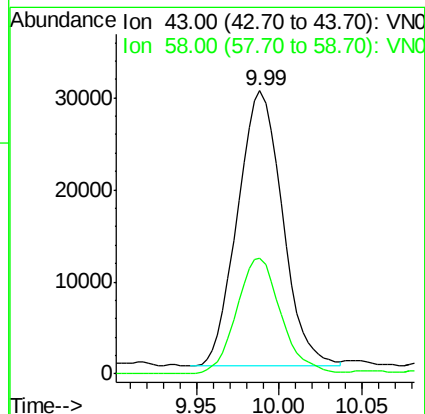
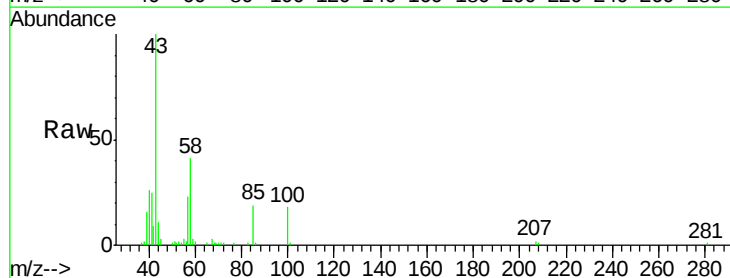
Acq: 11 Mar 2019 10:12

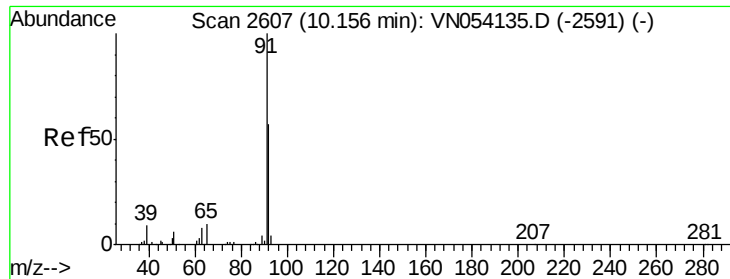
Tgt Ion: 43 Resp: 56460

Ion Ratio Lower Upper

43 100

58 41.6 30.8 46.2





#52

Toluene

Concen: 1.102 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

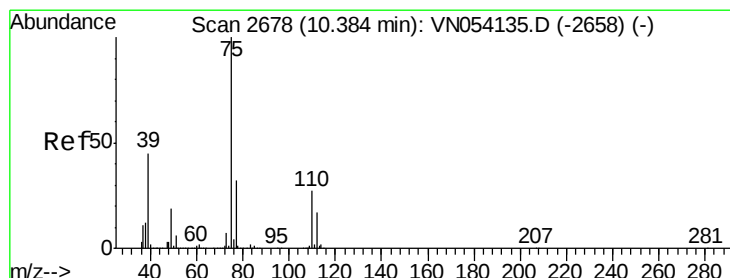
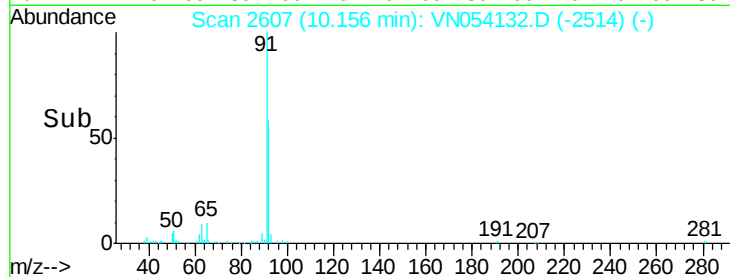
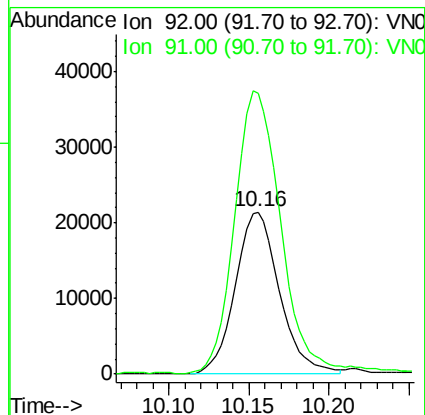
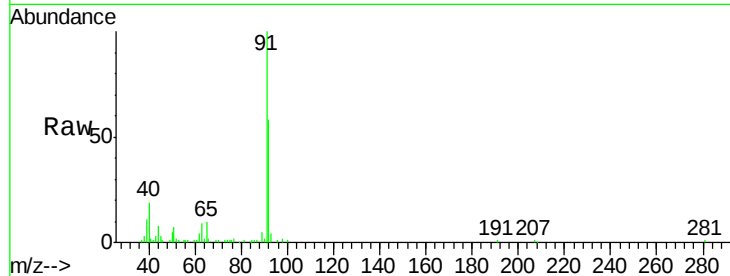
VSTDIC001

Tot Ion: 92 Resp: 40350

Ion Ratio Lower Upper

92 100

91 185.9 139.0 208.6



#53

t-1,3-Dichloropropene

Concen: 0.973 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. -0.00 min

Lab File: VN054132.D

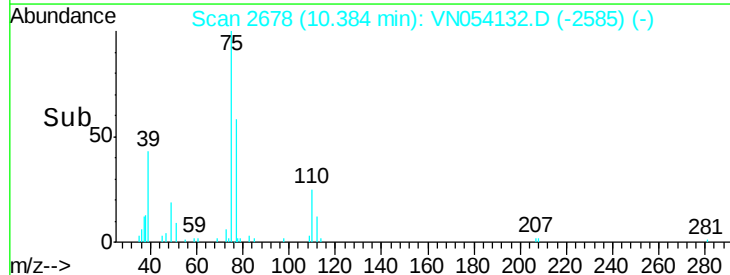
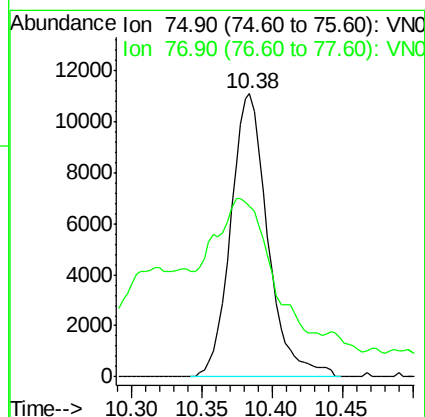
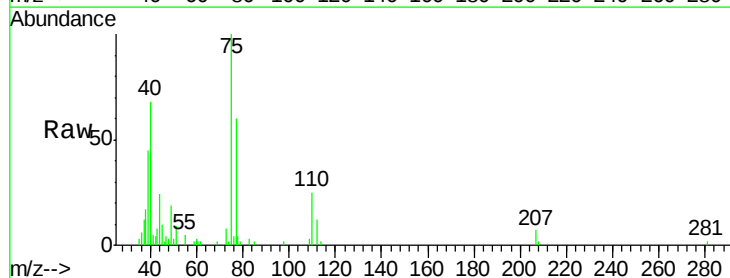
Acq: 11 Mar 2019 10:12

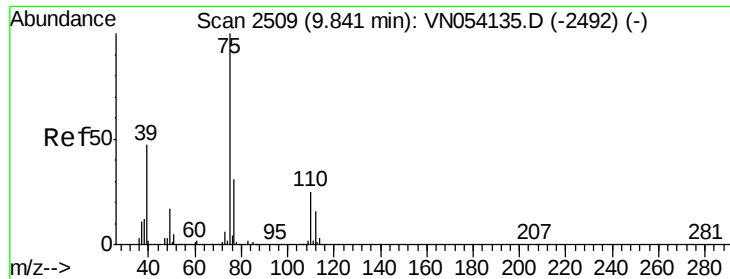
Tgt Ion: 75 Resp: 20376

Ion Ratio Lower Upper

75 100

77 46.7 24.9 37.3#





#54

cis-1,3-Dichloropropene

Concen: 1.061 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

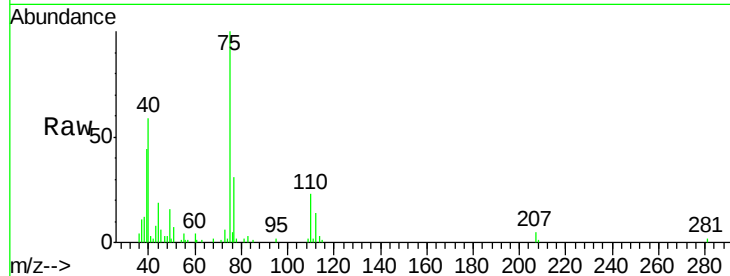
Tot Ion: 75 Resp: 24936

Ion Ratio Lower Upper

75 100

77 29.2 25.4 38.0

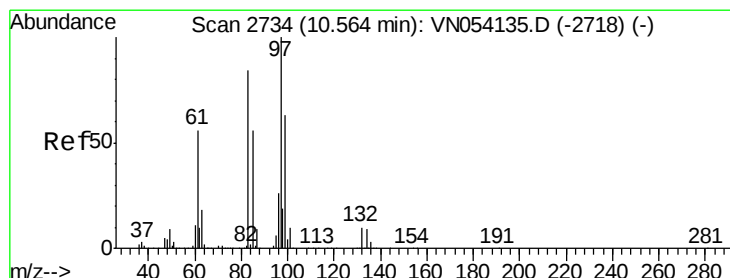
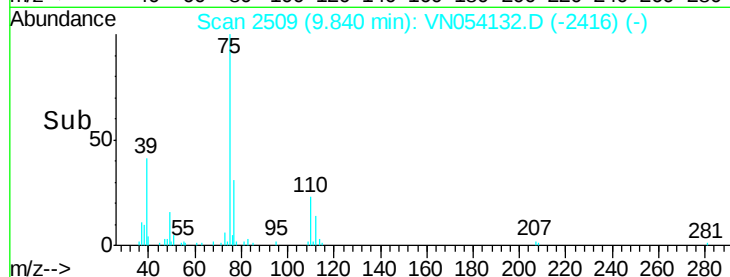
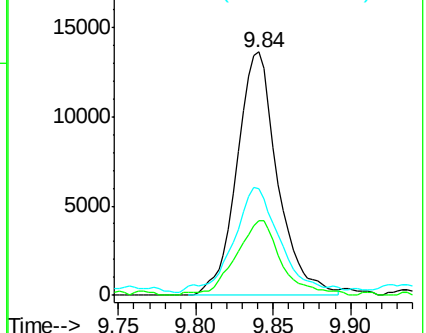
39 40.8 36.2 54.2



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#55

1,1,2-Trichloroethane

Concen: 1.141 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Tgt Ion: 97 Resp: 15750

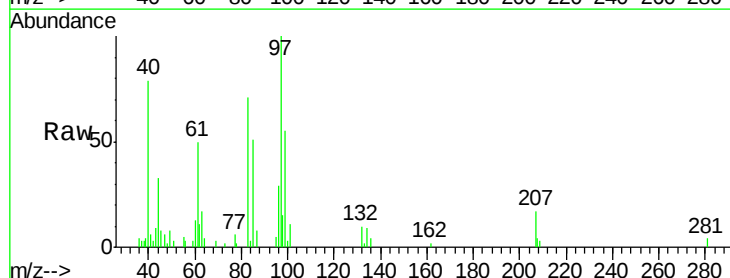
Ion Ratio Lower Upper

97 100

83 70.9 69.8 104.6

85 50.6 45.0 67.4

99 54.5 49.8 74.6

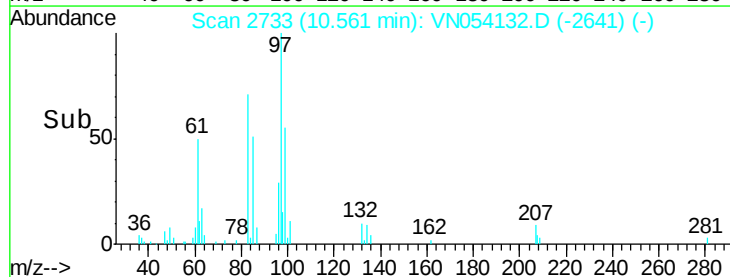
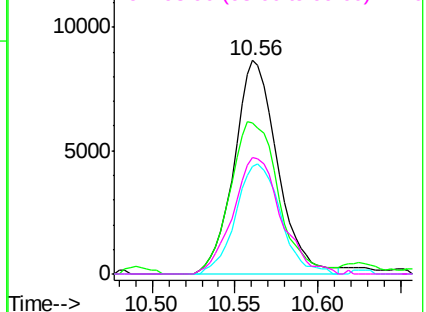


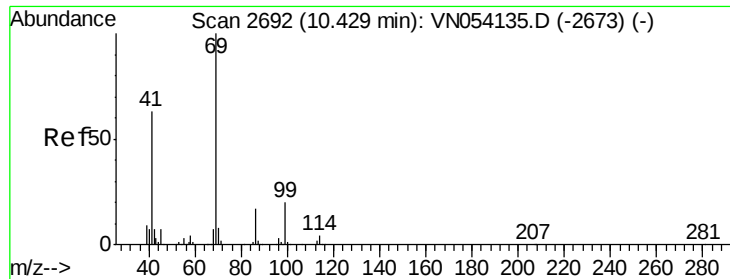
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#56

Ethyl methacrylate

Concen: 1.041 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

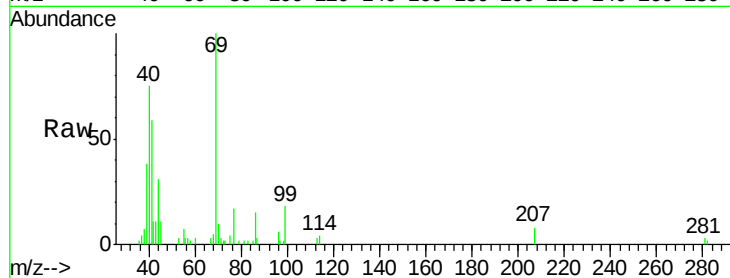
Tot Ion: 69 Resp: 17604

Ion Ratio Lower Upper

69 100

41 65.7 53.4 80.2

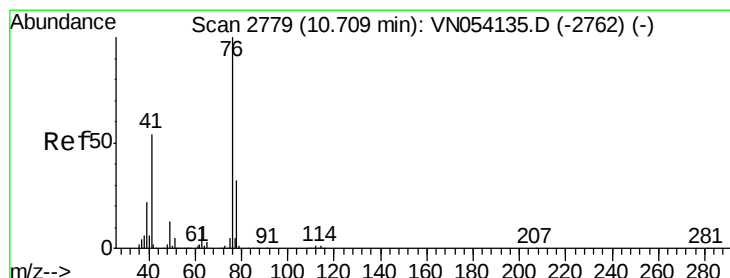
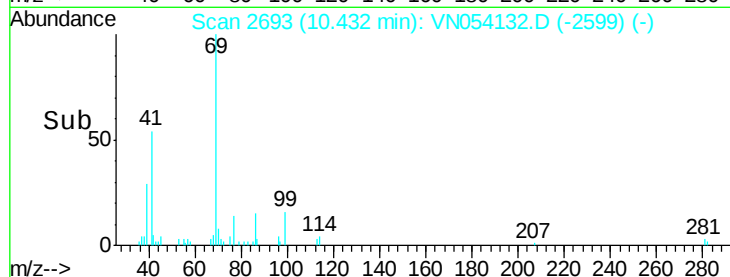
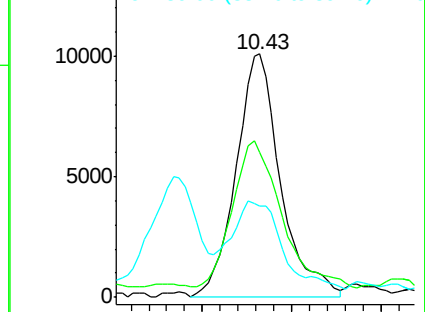
39 40.9 25.6 38.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.080 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN054132.D

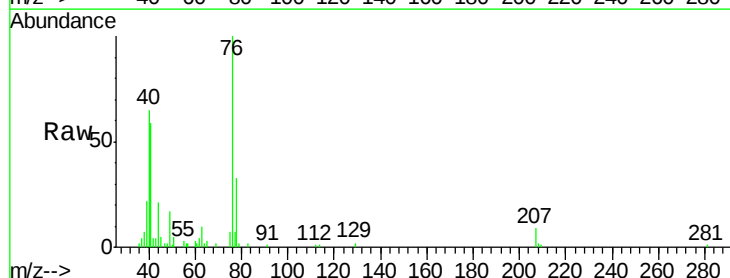
Acq: 11 Mar 2019 10:12

Tgt Ion: 76 Resp: 24138

Ion Ratio Lower Upper

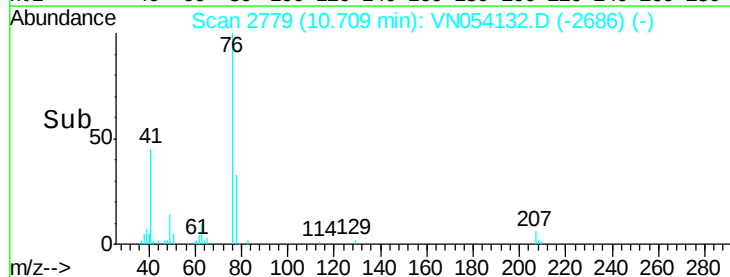
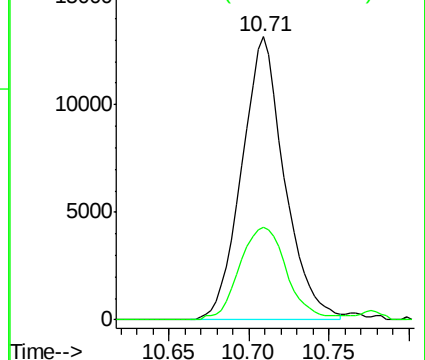
76 100

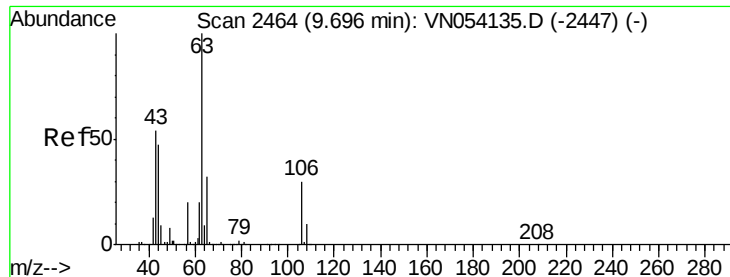
78 35.8 25.9 38.9



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

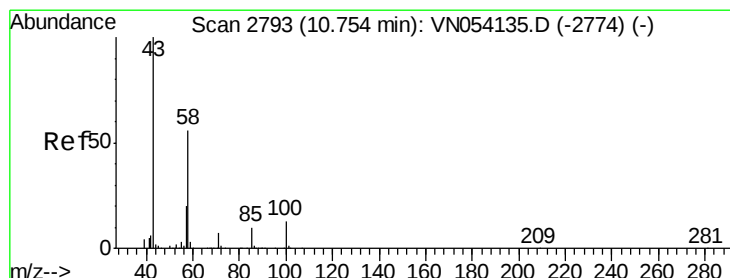
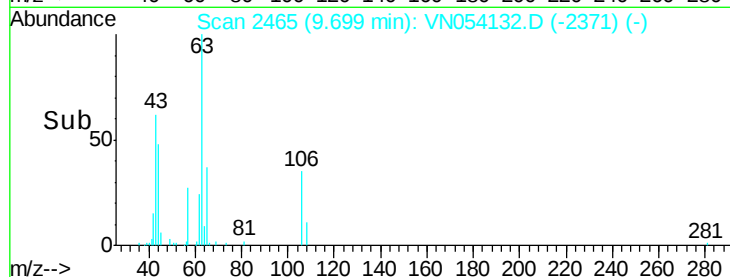
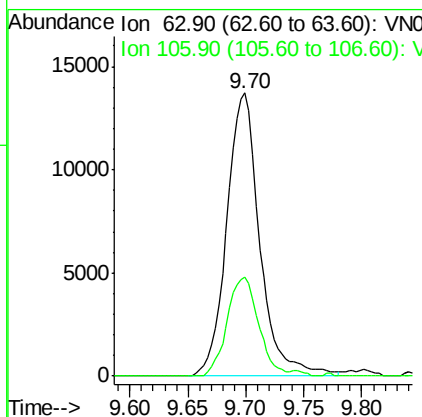
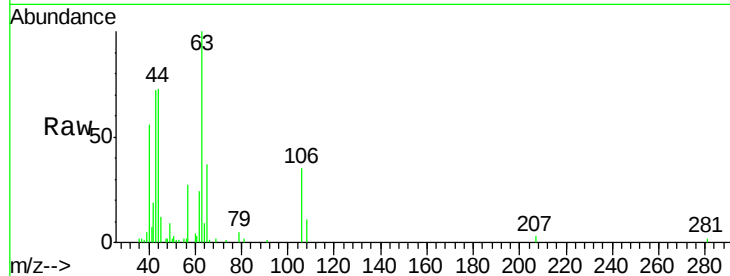




#58
 2-Chloroethyl Vinyl ether
 Concen: 4.348 ug/l
 RT: 9.70 min Scan# 2465
 Delta R.T. 0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

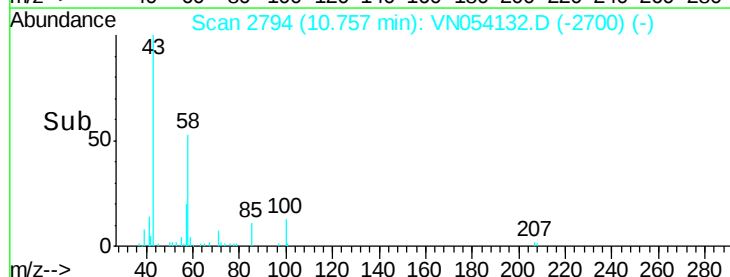
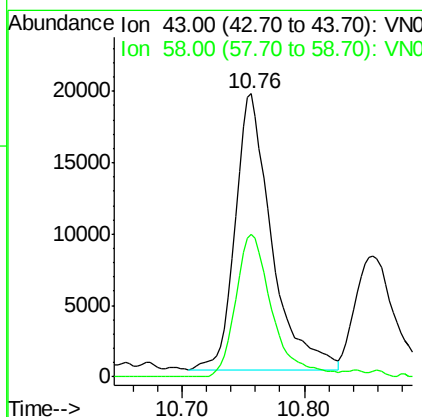
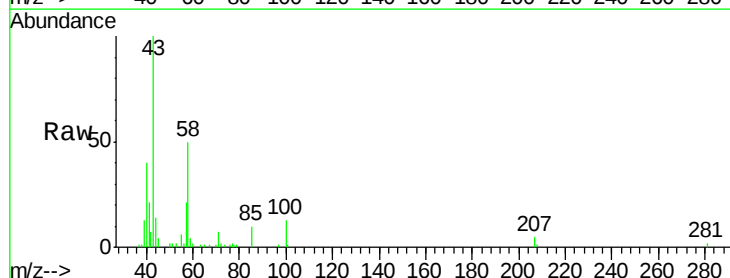
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

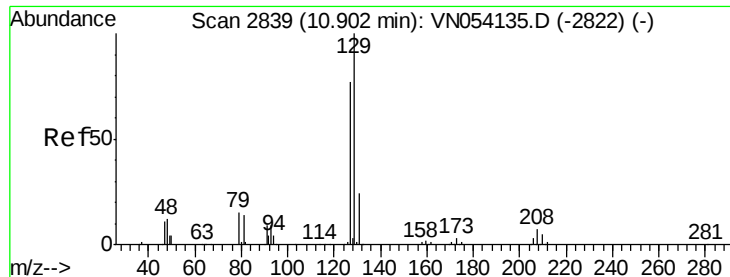
Tot Ion: 63 Resp: 27137
 Ion Ratio Lower Upper
 63 100
 106 33.1 20.2 30.2#



#59
 2-Hexanone
 Concen: 5.224 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Tgt Ion: 43 Resp: 39908
 Ion Ratio Lower Upper
 43 100
 58 51.4 27.0 81.0





#60

Dibromochloromethane

Concen: 1.012 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

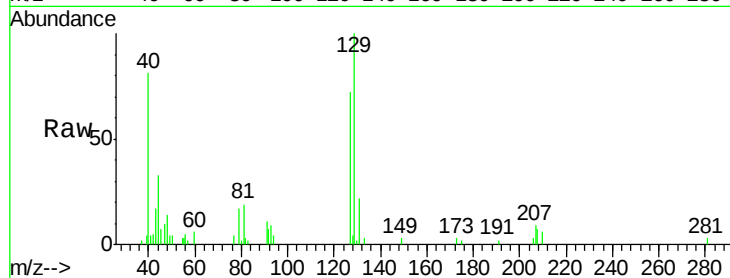
VSTDIC001

Tot Ion:129 Resp: 16190

Ion Ratio Lower Upper

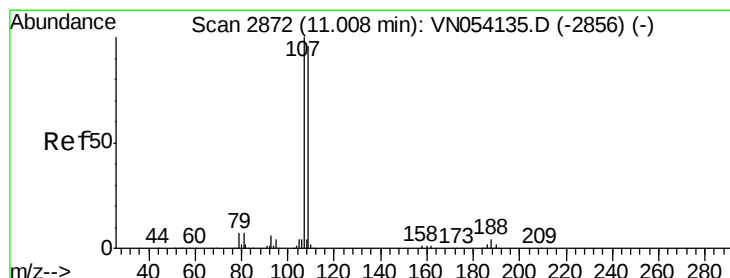
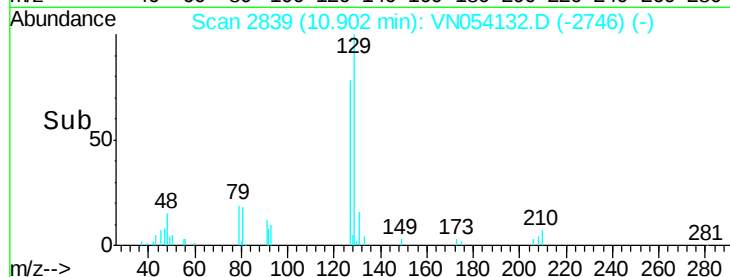
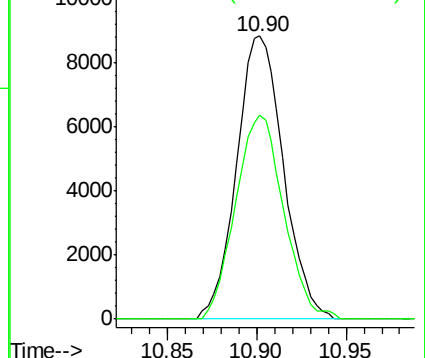
129 100

127 73.8 38.8 116.4



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 1.040 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN054132.D

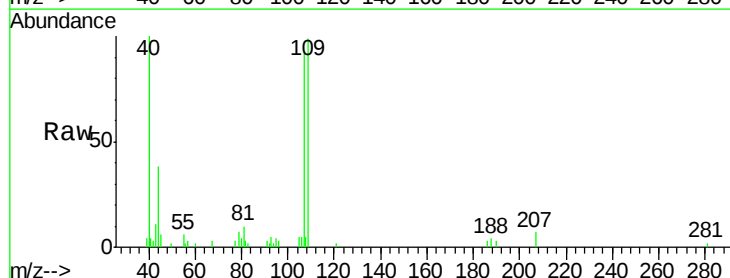
Acq: 11 Mar 2019 10:12

Tgt Ion:107 Resp: 14435

Ion Ratio Lower Upper

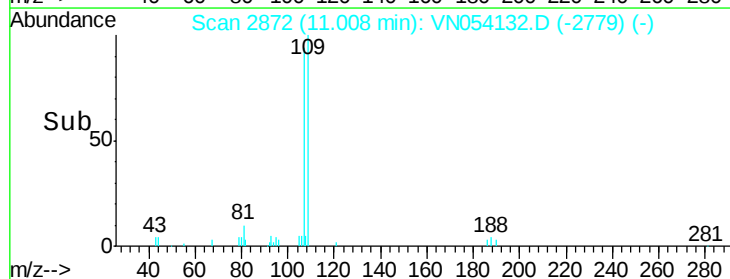
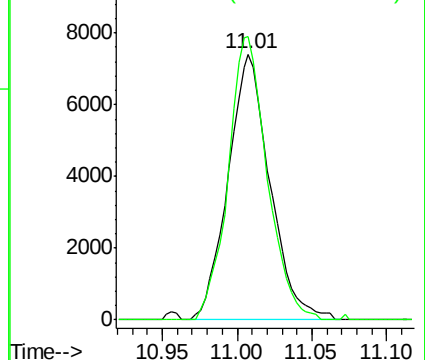
107 100

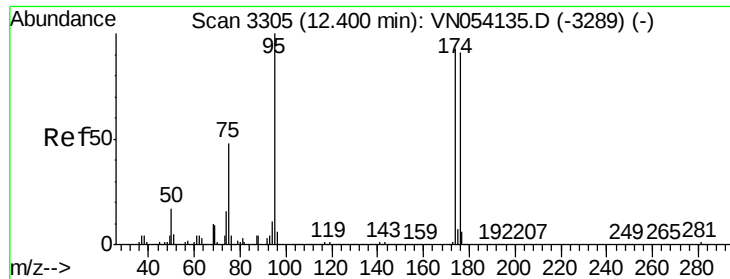
109 99.2 74.9 112.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

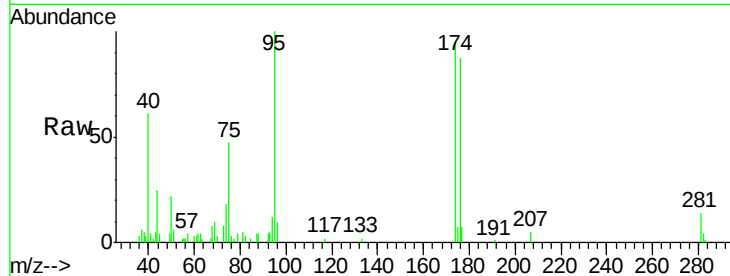




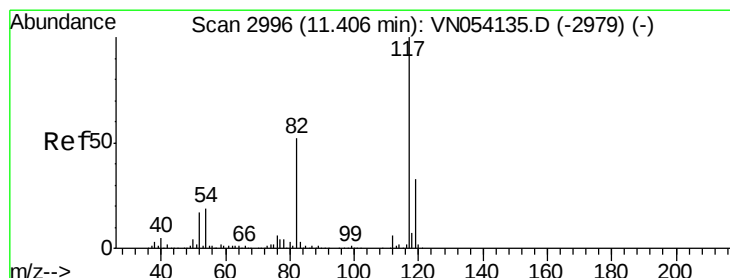
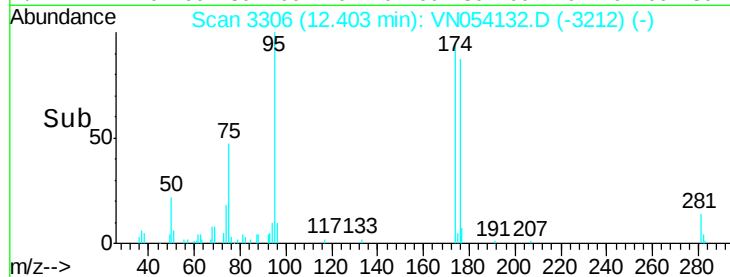
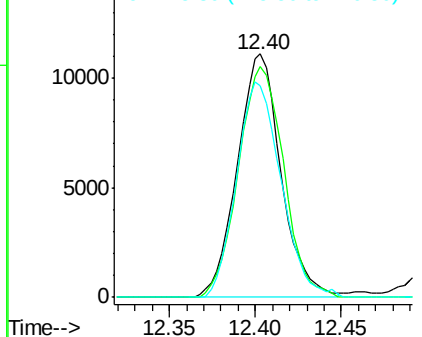
#62
4-Bromofluorobenzene
Concen: 1.029 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tot Ion: 95 Resp: 19578
Ion Ratio Lower Upper
95 100
174 98.2 0.0 173.2
176 89.9 0.0 168.8

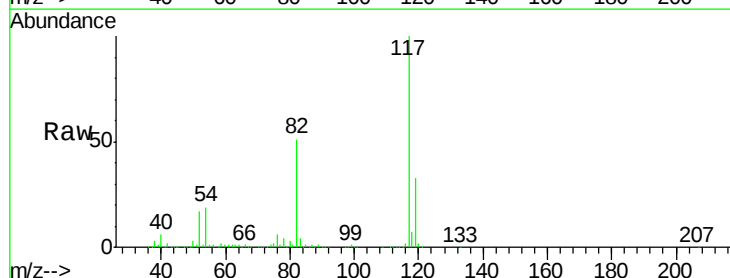


Abundance Ion 94.90 (94.60 to 95.60): VN054132.D (-3289) (-)
Ion 173.80 (173.50 to 174.50): VN054132.D (-3289) (-)
Ion 175.80 (175.50 to 176.50): VN054132.D (-3289) (-)

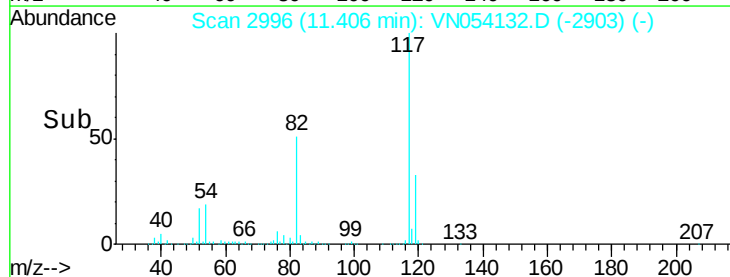
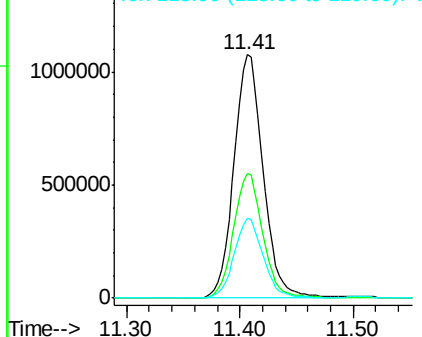


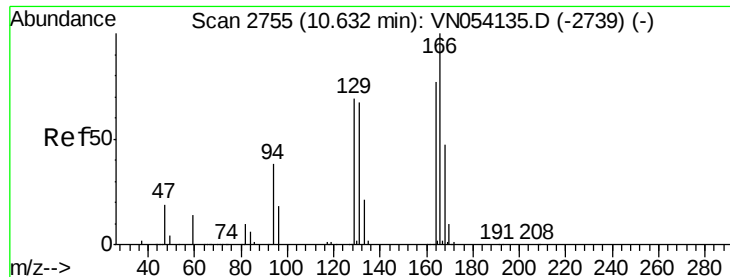
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion: 117 Resp: 1937839
Ion Ratio Lower Upper
117 100
82 51.3 43.4 65.2
119 32.5 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VN054132.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN054132.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN054132.D (-2979) (-)





#64

Tetrachloroethene

Concen: 1.274 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion:164 Resp: 22731

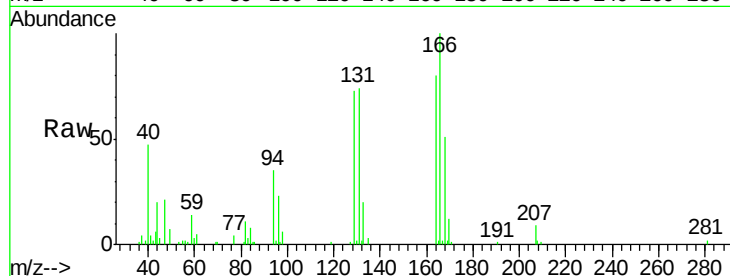
Ion Ratio Lower Upper

164 100

166 124.8 101.3 151.9

129 90.7 73.2 109.8

131 92.7 70.8 106.2

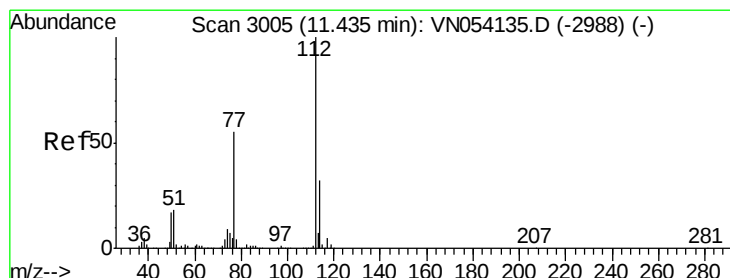
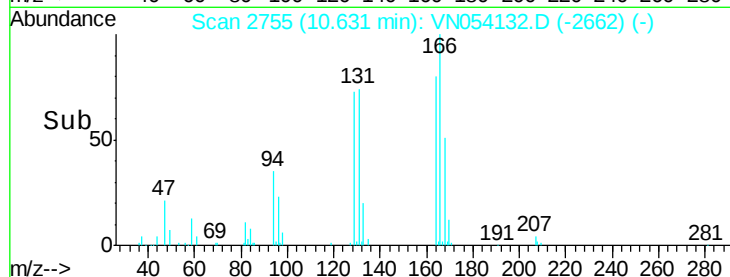
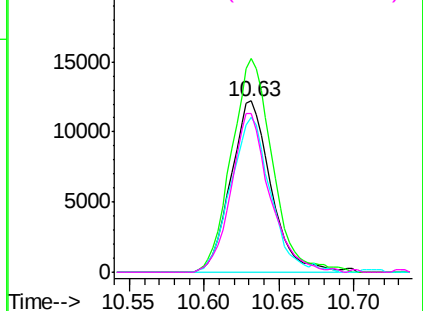


Abundance Ion 163.80 (163.50 to 164.50): V

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: 1.166 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054132.D

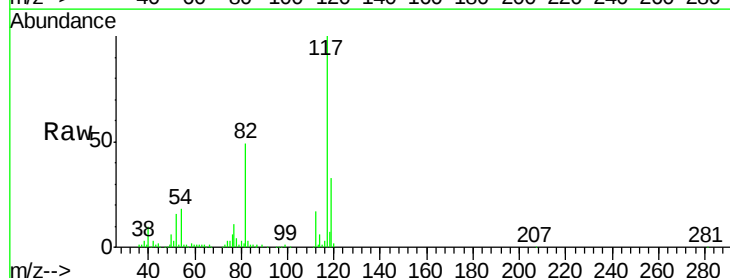
Acq: 11 Mar 2019 10:12

Tgt Ion:112 Resp: 47861

Ion Ratio Lower Upper

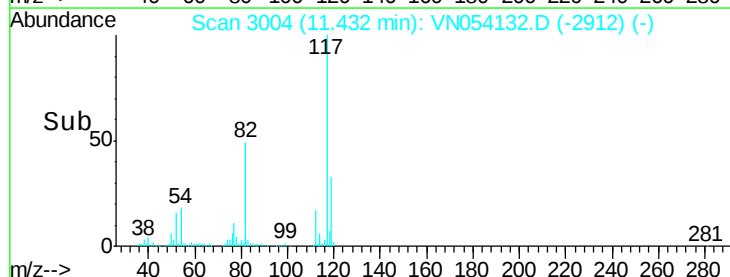
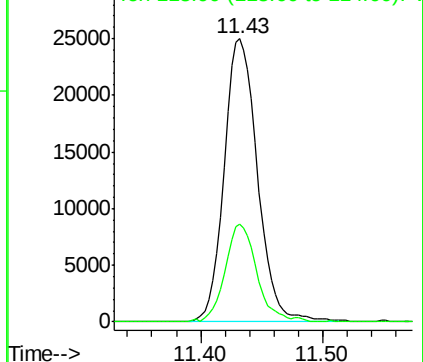
112 100

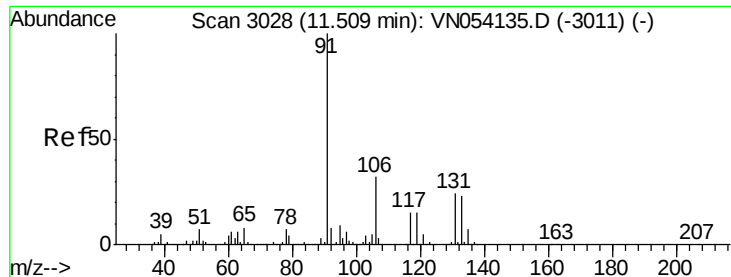
114 34.7 25.4 38.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 1.062 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

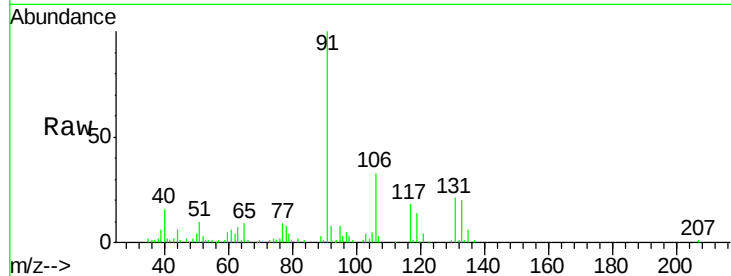
Tot Ion:131 Resp: 16410

Ion Ratio Lower Upper

131 100

133 100.3 47.6 142.9

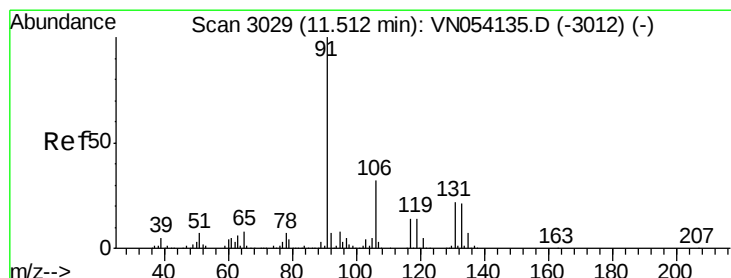
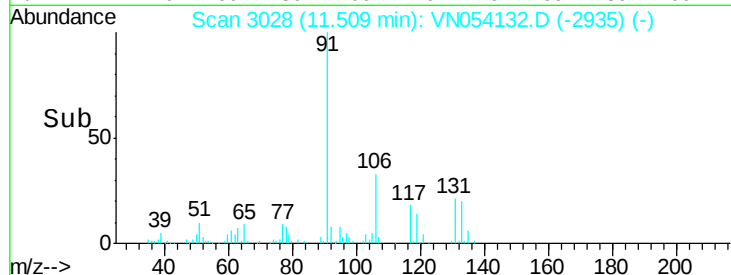
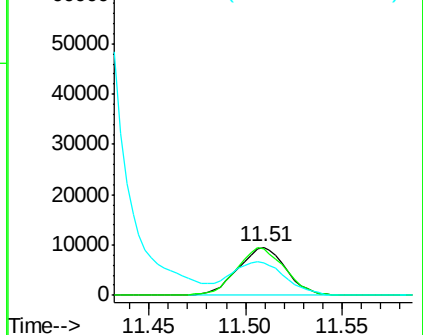
119 0.0 33.8 101.3#



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



#67

Ethyl Benzene

Concen: 1.161 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054132.D

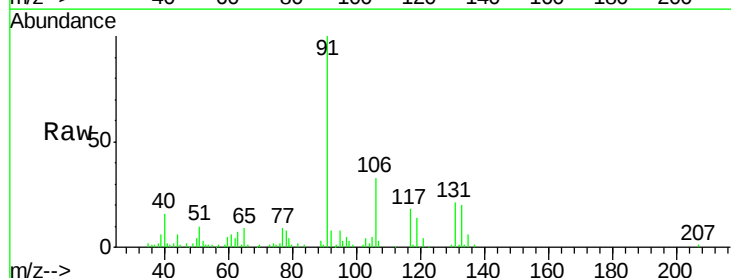
Acq: 11 Mar 2019 10:12

Tgt Ion: 91 Resp: 79258

Ion Ratio Lower Upper

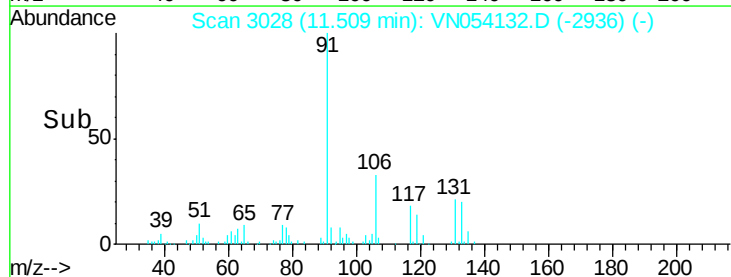
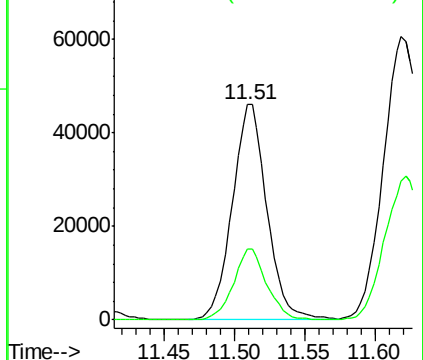
91 100

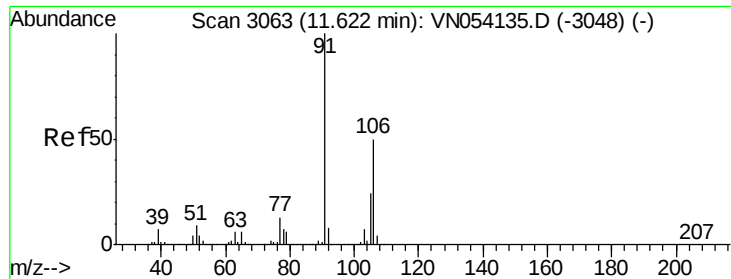
106 32.7 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V

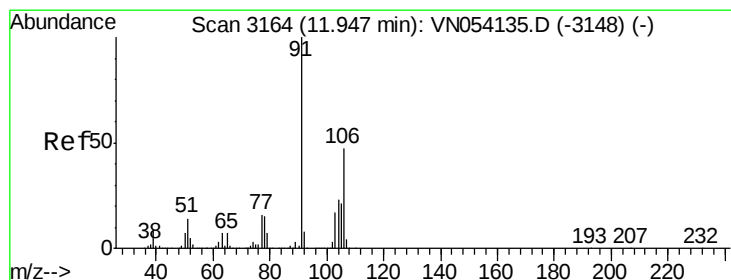
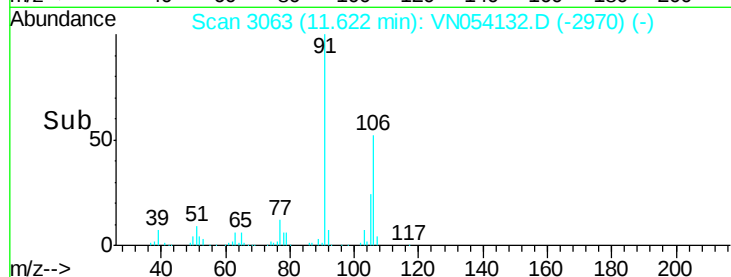
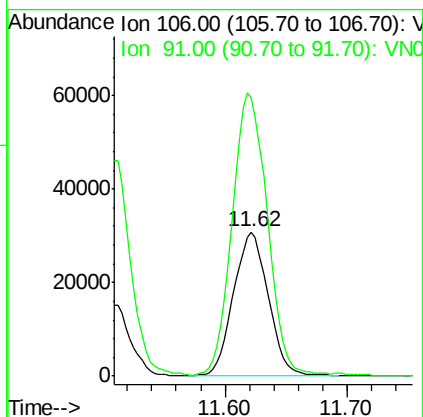
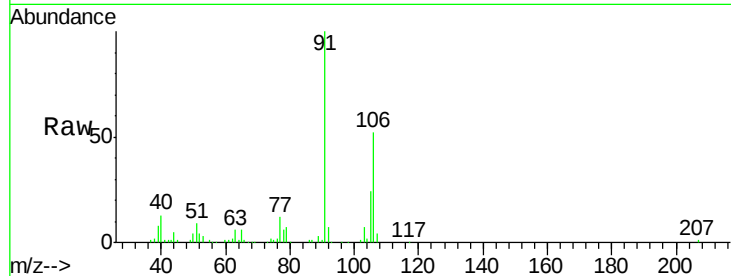




#68
m/p-Xylenes
Concen: 2.284 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

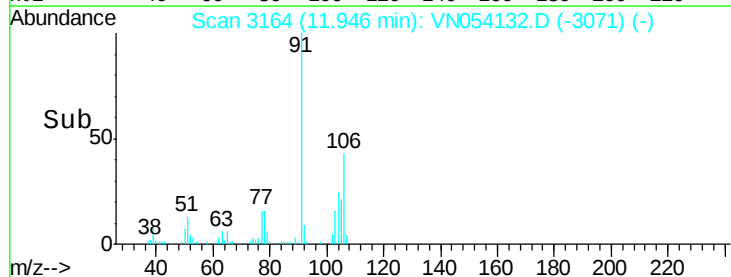
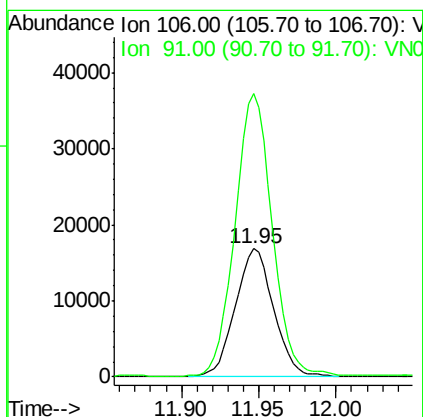
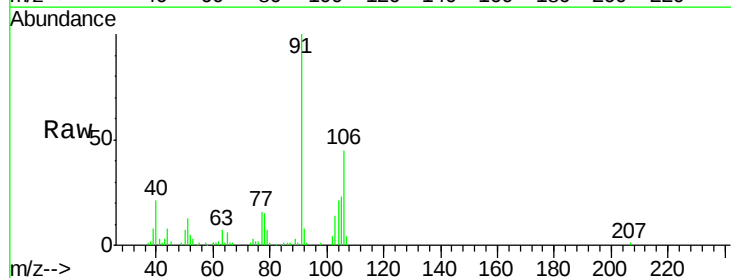
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

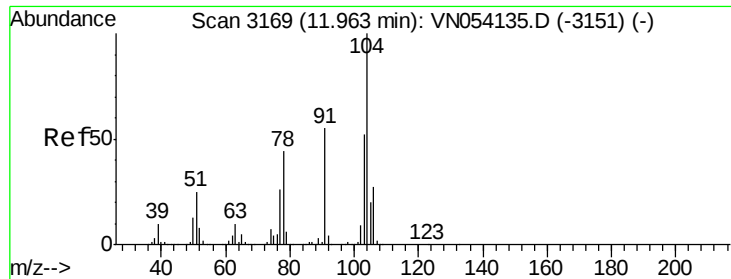
Tot Ion:106 Resp: 60960
Ion Ratio Lower Upper
106 100
91 196.1 163.2 244.8



#69
o-Xylene
Concen: 1.109 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion:106 Resp: 29054
Ion Ratio Lower Upper
106 100
91 214.7 107.1 321.3

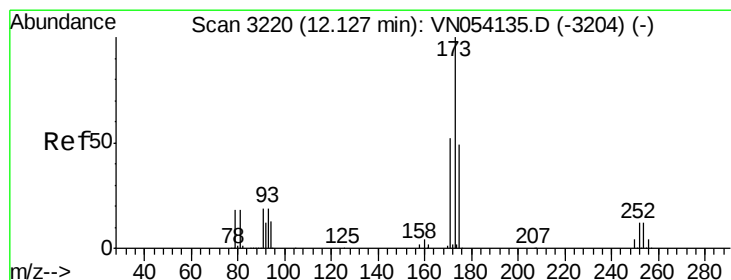
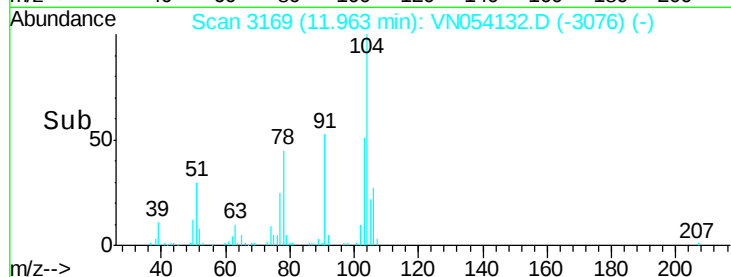
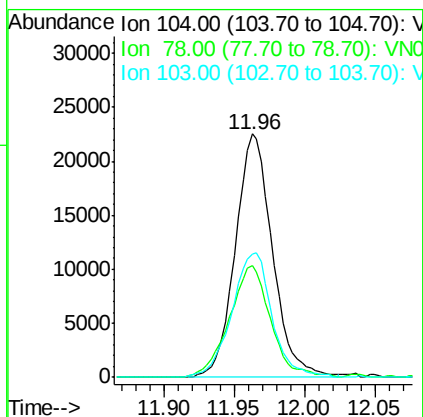
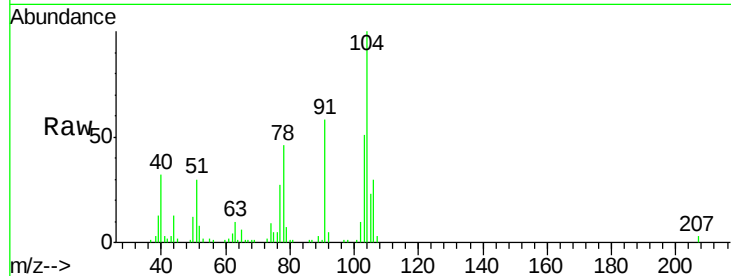




#70
Stvrene
Concen: 1.026 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

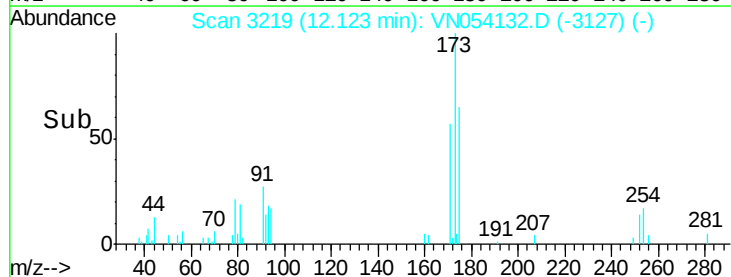
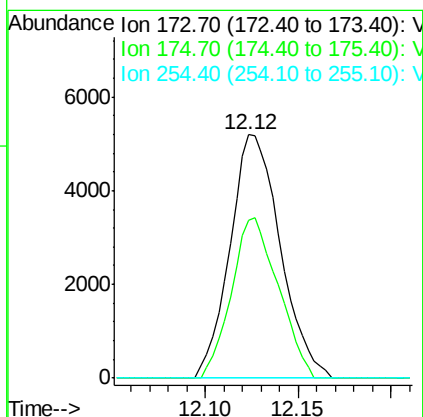
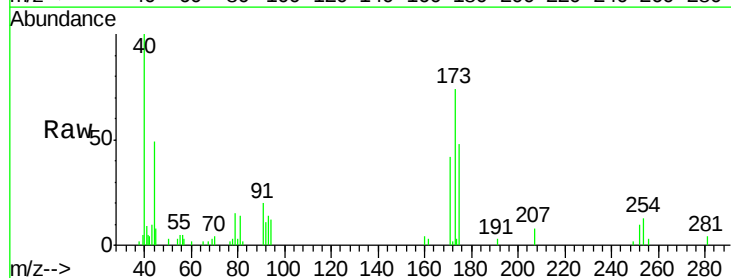
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

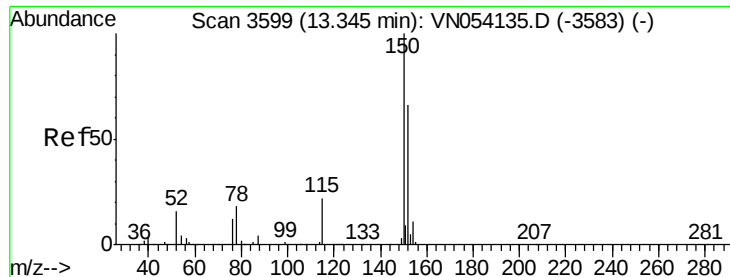
Tot Ion:104 Resp: 41636
Ion Ratio Lower Upper
104 100
78 51.1 39.4 59.0
103 55.3 44.7 67.1



#71
Bromoform
Concen: 0.914 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN054132.D
Acq: 11 Mar 2019 10:12

Tgt Ion:173 Resp: 9781
Ion Ratio Lower Upper
173 100
175 61.0 24.1 72.2
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

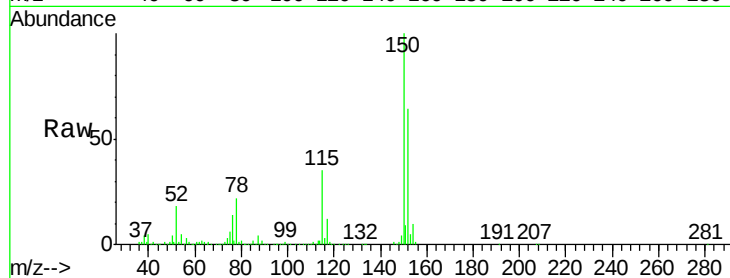
Tot Ion:152 Resp: 735455

Ion Ratio Lower Upper

152 100

115 54.9 28.5 85.6

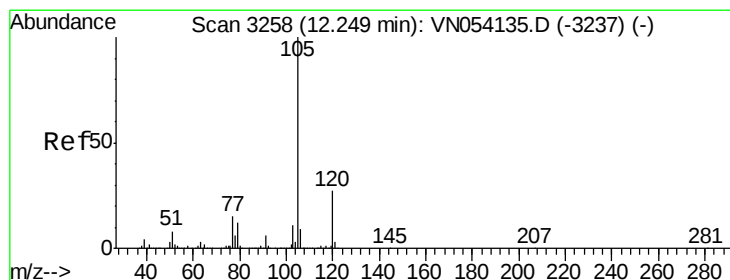
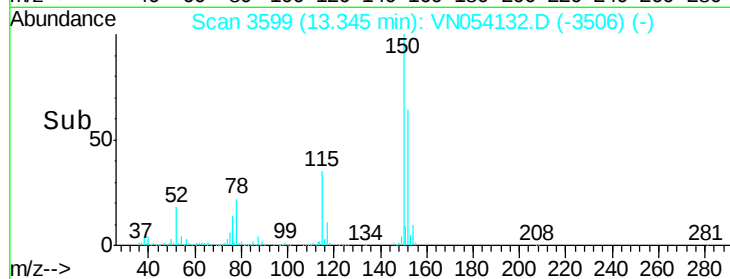
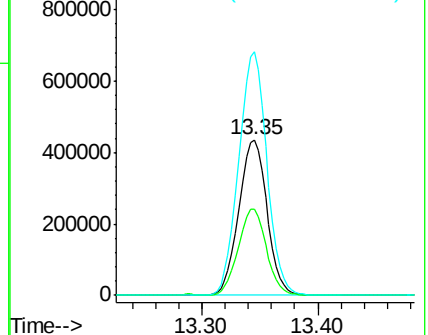
150 155.5 0.0 343.2



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: 1.346 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054132.D

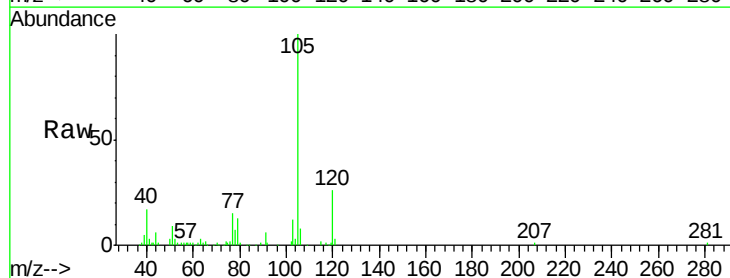
Acq: 11 Mar 2019 10:12

Tgt Ion:105 Resp: 78716

Ion Ratio Lower Upper

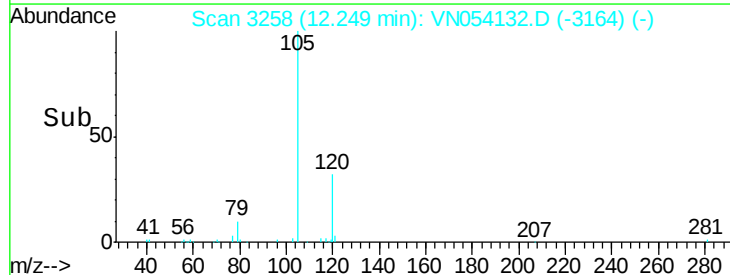
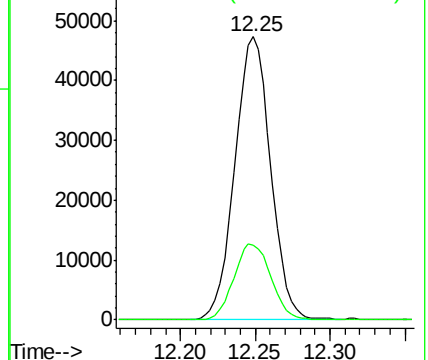
105 100

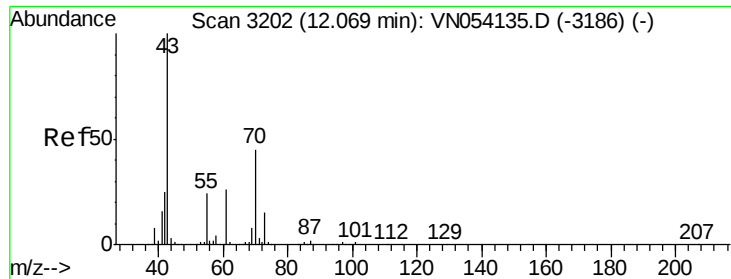
120 27.7 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 0.891 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

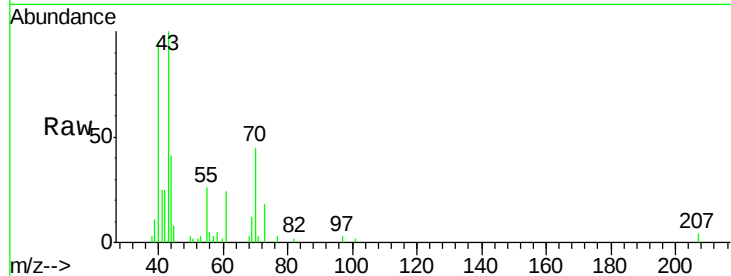
MSVOA_N

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 11865

Ion	Ratio	Lower	Upper
43	100		
70	58.1	33.6	50.4#
55	28.5	20.6	31.0
61	27.7	19.4	29.2

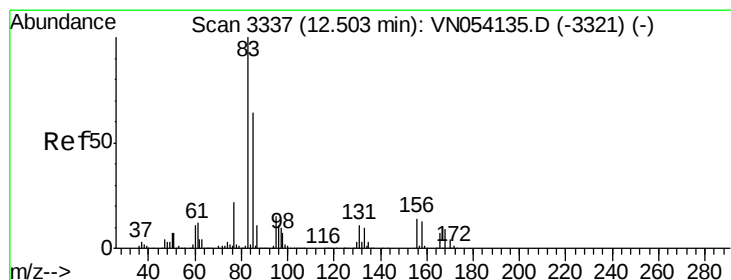
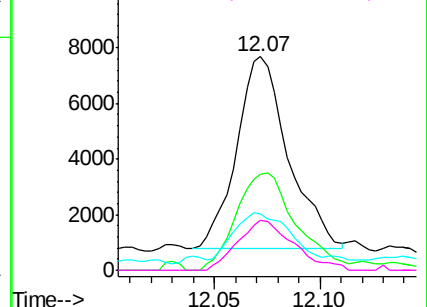
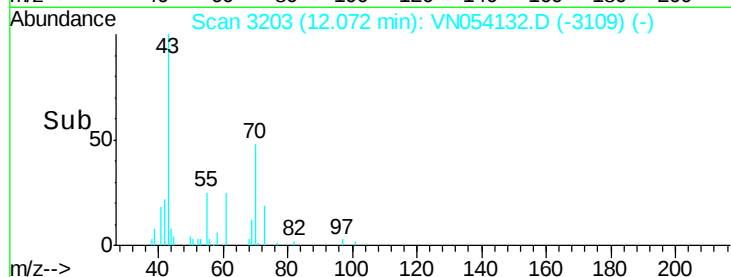


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 1.254 ug/l

RT: 12.50 min Scan# 3337

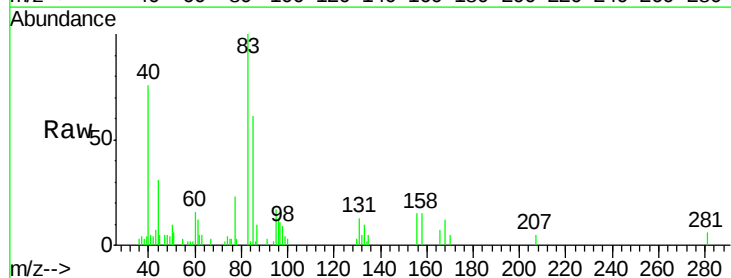
Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Tgt Ion: 83 Resp: 15871

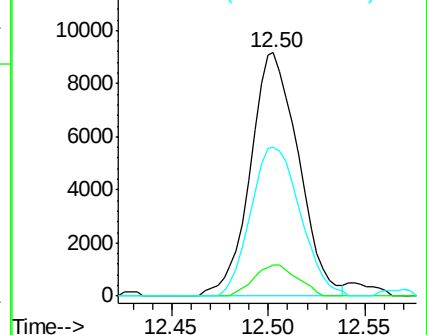
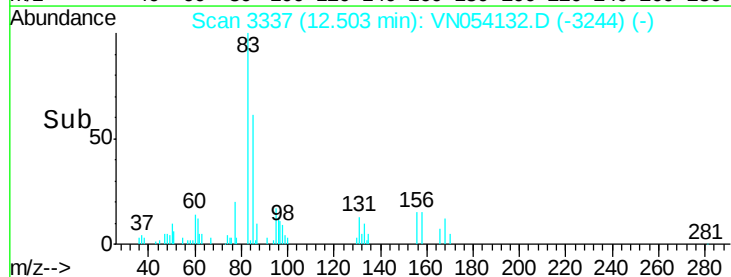
Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.0	14.9
85	62.8	32.4	97.0

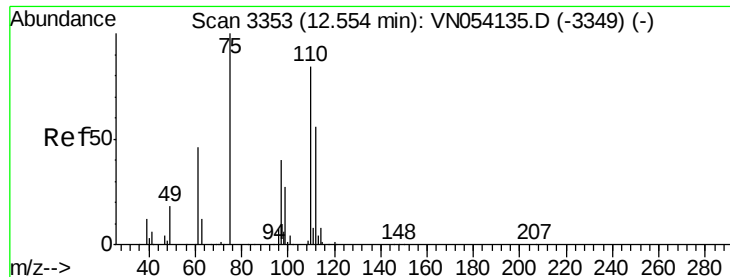


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 1.960 ug/l

RT: 12.56 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

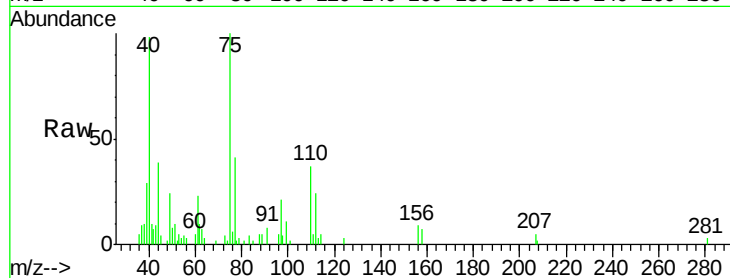
VSTDIC001

Tot Ion: 75 Resp: 20353

Ion Ratio Lower Upper

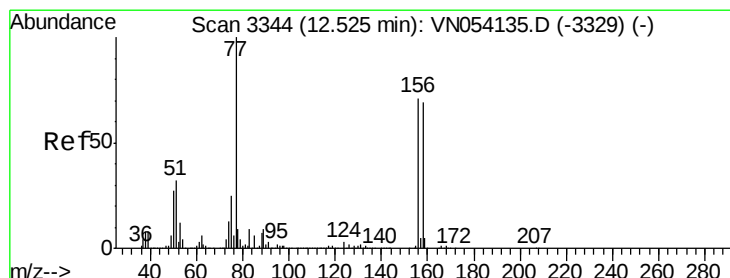
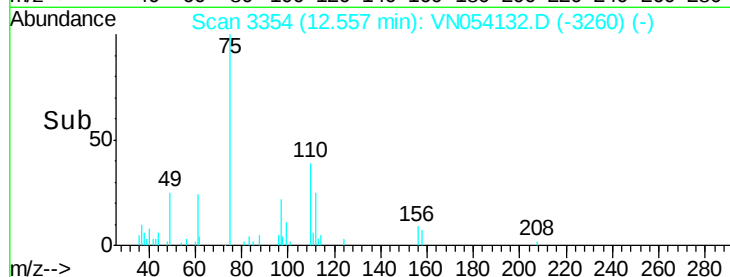
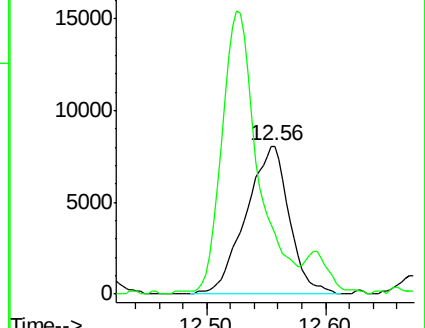
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054135.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN054135.D (-3349) (-)



#77

Bromobenzene

Concen: 1.305 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

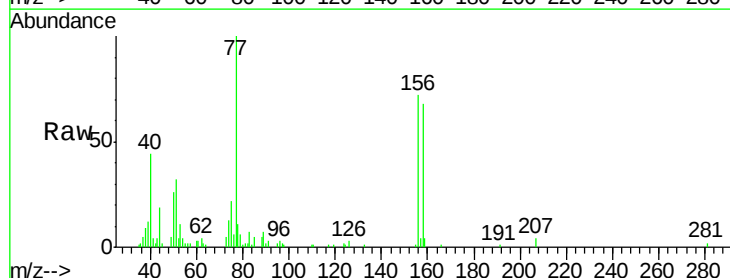
Tgt Ion: 156 Resp: 19869

Ion Ratio Lower Upper

156 100

77 160.2 93.6 280.8

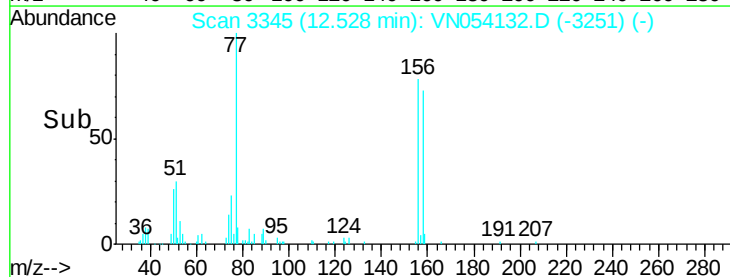
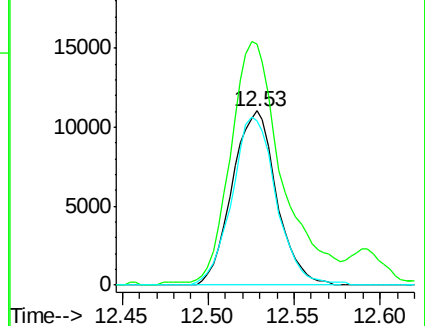
158 96.4 48.4 145.0

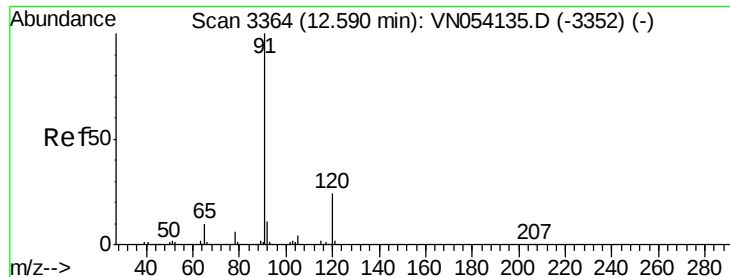


Abundance Ion 155.80 (155.50 to 156.50): VN054135.D (-3329) (-)

Ion 77.00 (76.70 to 77.70): VN054135.D (-3329) (-)

Ion 157.80 (157.50 to 158.50): VN054135.D (-3329) (-)





#78

n-propylbenzene

Concen: 1.249 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

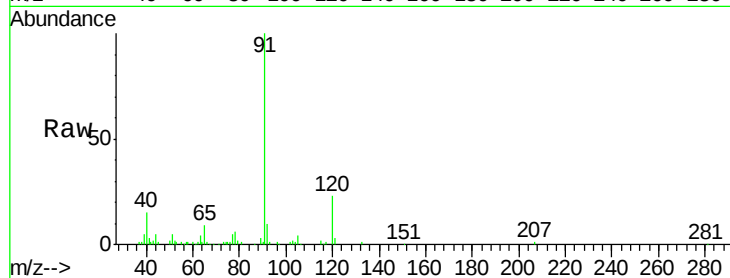
VSTDIC001

Tot Ion: 91 Resp: 78158

Ion Ratio Lower Upper

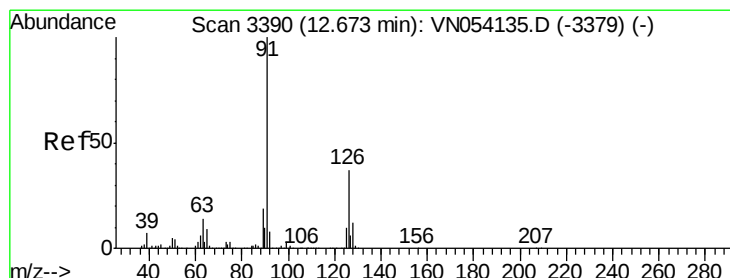
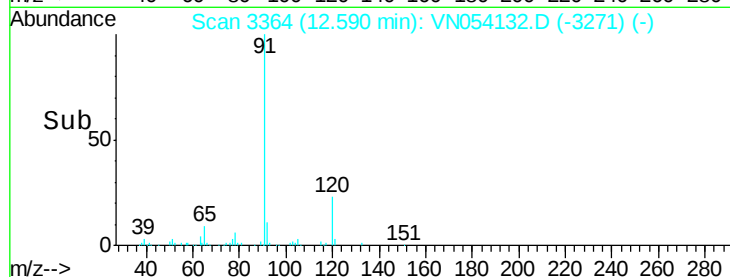
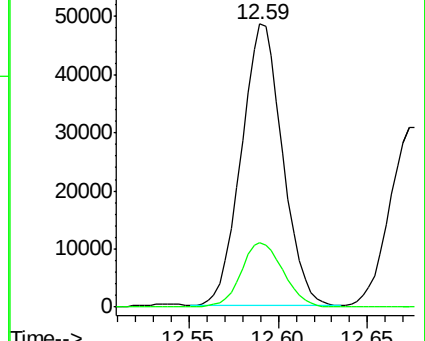
91 100

120 23.4 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 1.354 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054132.D

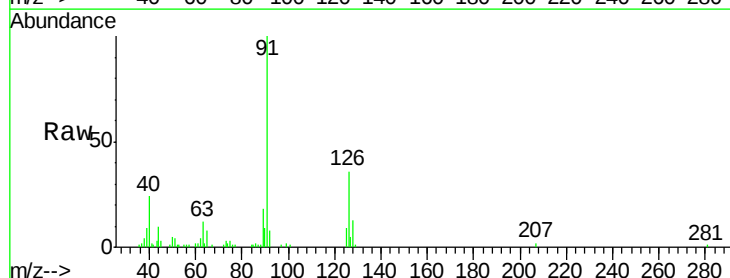
Acq: 11 Mar 2019 10:12

Tgt Ion: 91 Resp: 51864

Ion Ratio Lower Upper

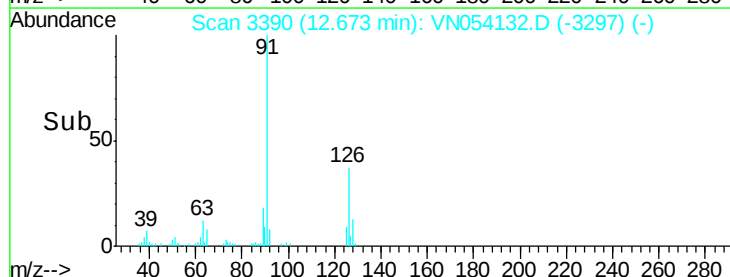
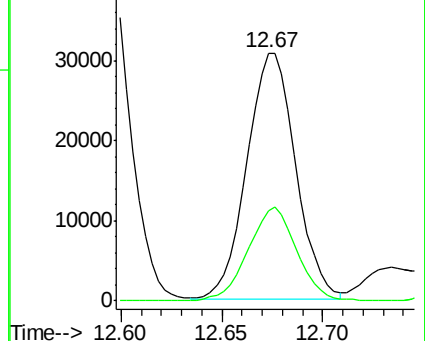
91 100

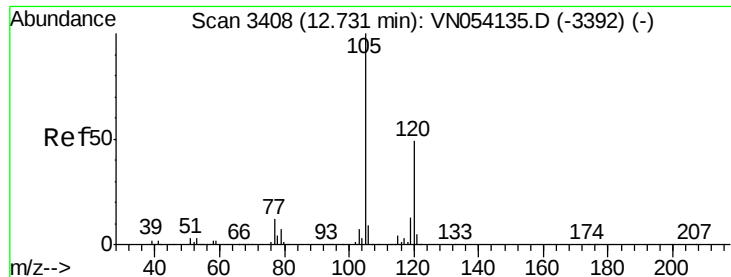
126 37.8 17.4 52.2



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: 1.306 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

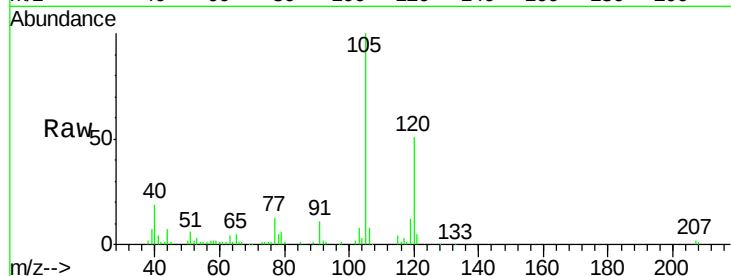
VSTDIC001

Tot Ion:105 Resp: 63349

Ion Ratio Lower Upper

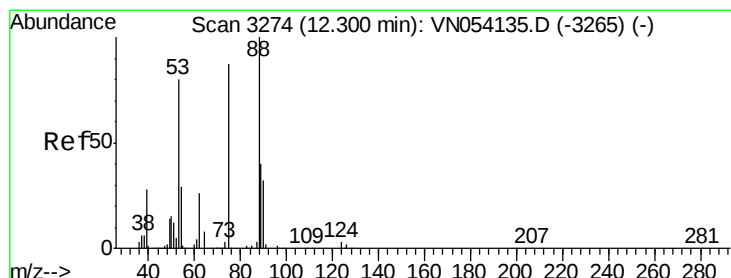
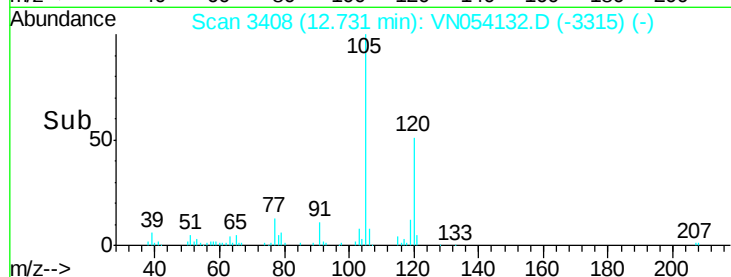
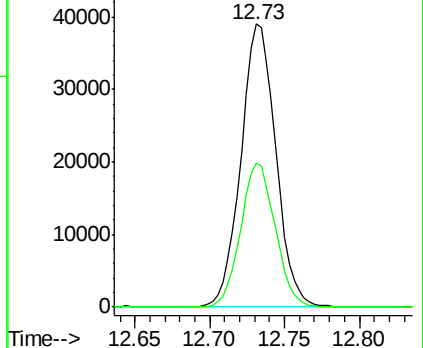
105 100

120 50.3 24.6 73.8



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: 1.188 ug/l

RT: 12.31 min Scan# 3276

Delta R.T. 0.01 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

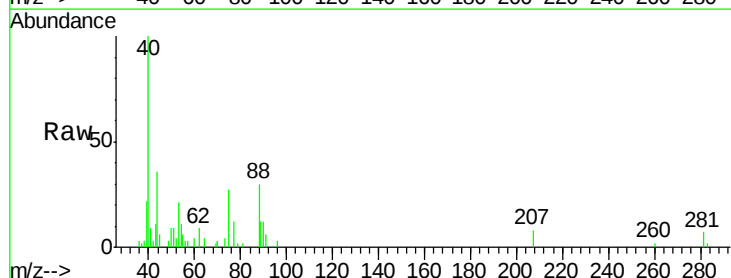
Tgt Ion: 75 Resp: 4145

Ion Ratio Lower Upper

75 100

53 90.0 76.4 114.6

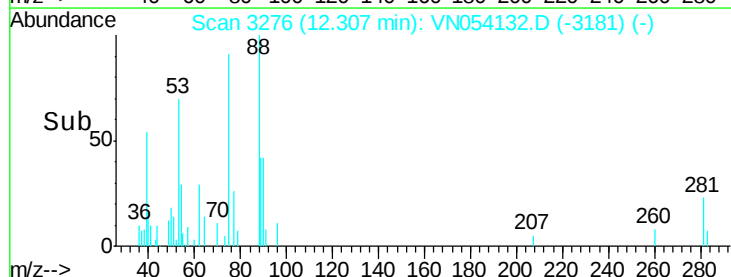
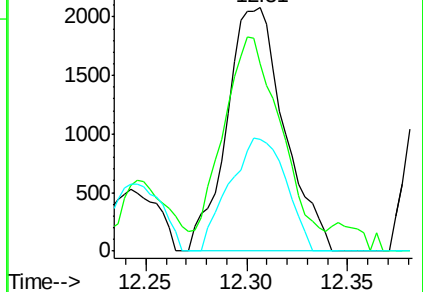
89 45.4 35.3 52.9

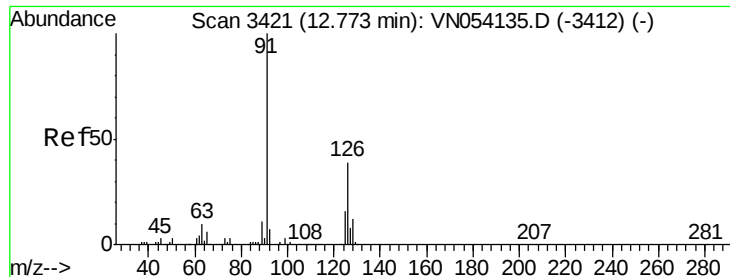


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 1.205 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

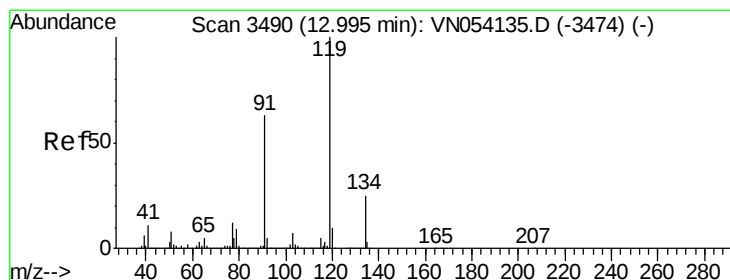
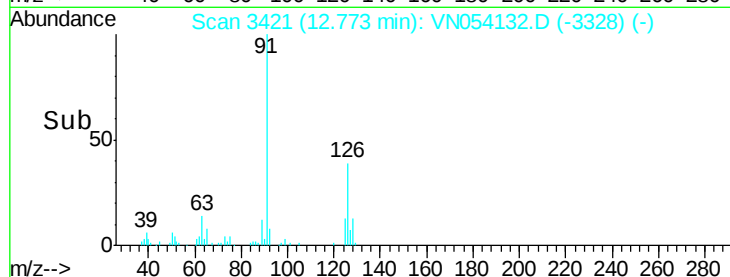
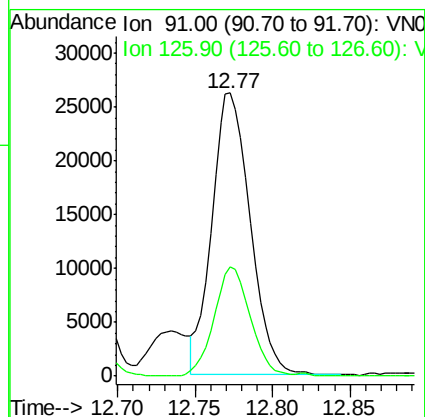
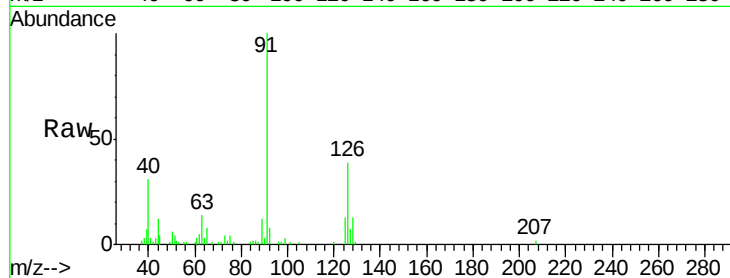
VSTDIC001

Tot Ion: 91 Resp: 45004

Ion Ratio Lower Upper

91 100

126 36.7 17.1 51.3



#83

tert-Butylbenzene

Concen: 1.336 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

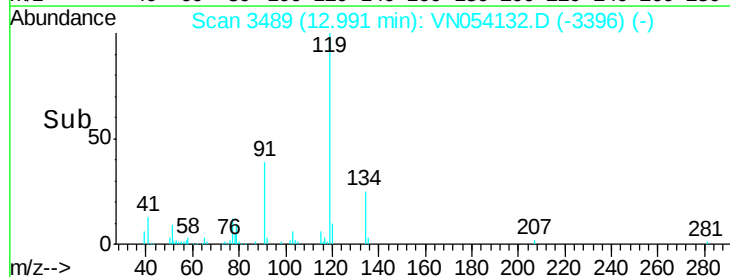
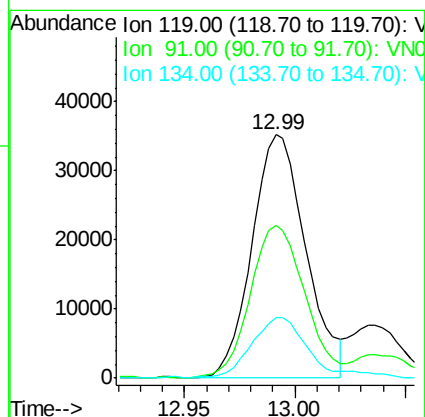
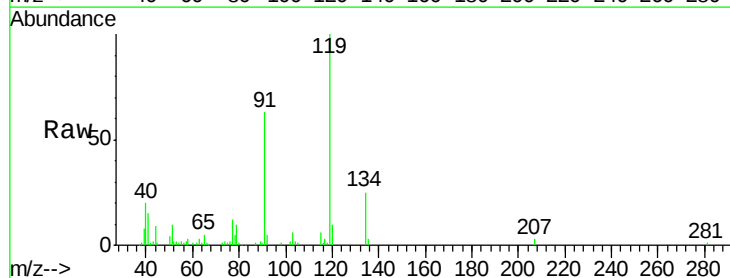
Tgt Ion: 119 Resp: 59819

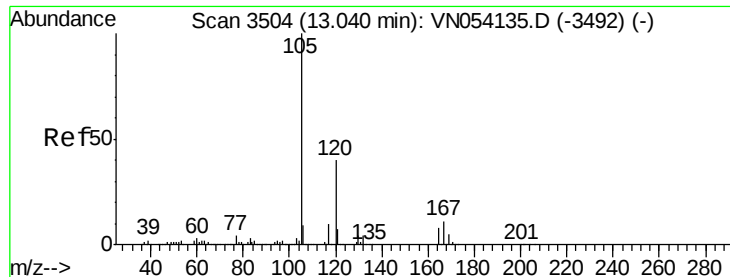
Ion Ratio Lower Upper

119 100

91 64.0 31.8 95.3

134 26.5 12.8 38.3





#84

1,2,4-Trimethylbenzene

Concen: 1.240 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

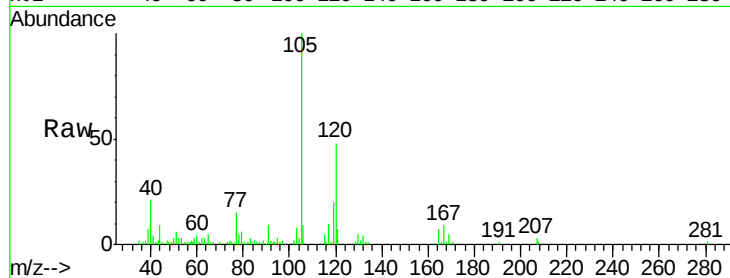
VSTDIC001

Tot Ion:105 Resp: 58872

Ion Ratio Lower Upper

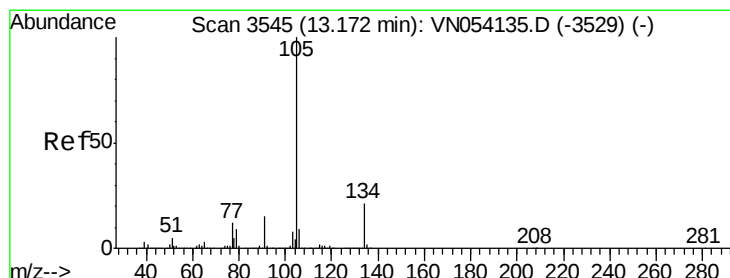
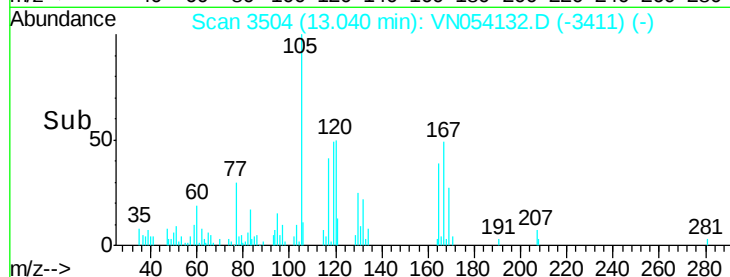
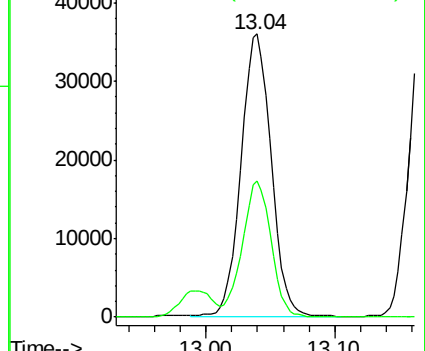
105 100

120 45.8 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 1.304 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054132.D

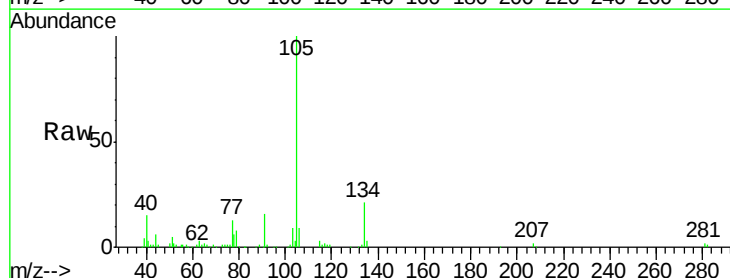
Acq: 11 Mar 2019 10:12

Tgt Ion:105 Resp: 75647

Ion Ratio Lower Upper

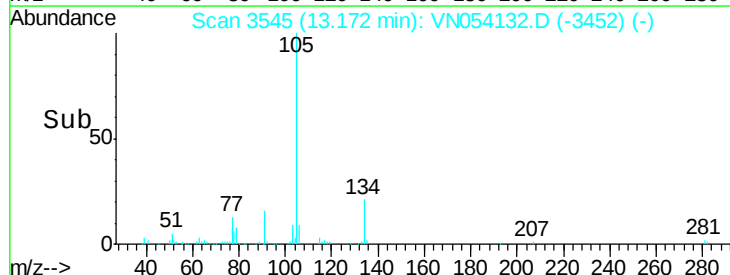
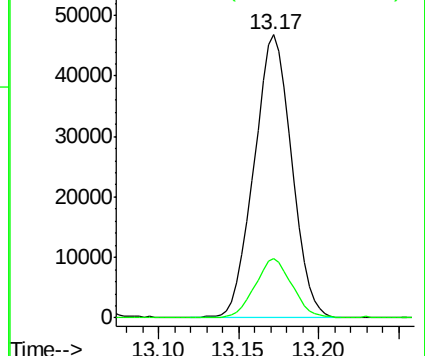
105 100

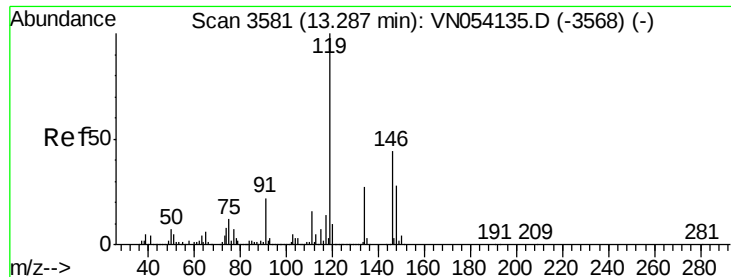
134 20.5 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

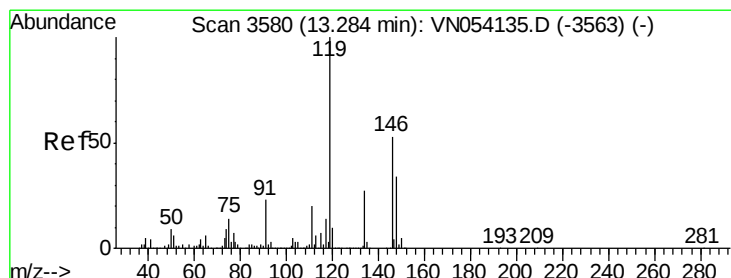
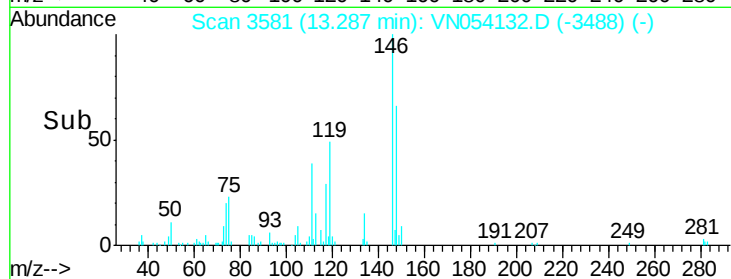
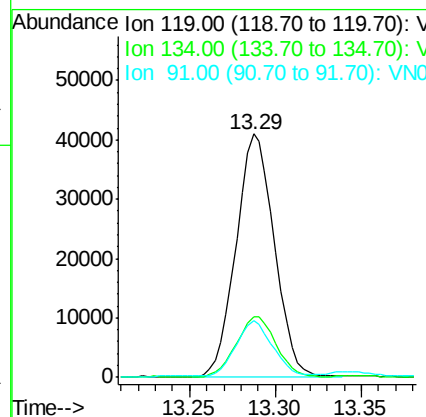
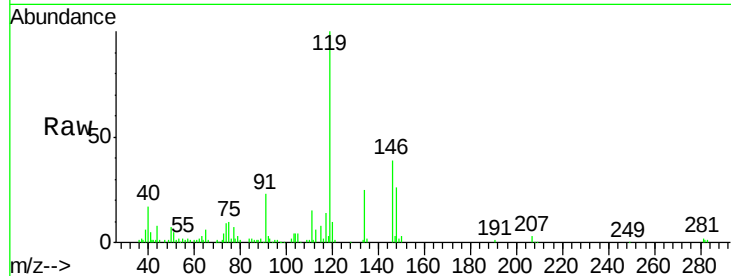




#86
 p-Isopropyltoluene
 Concen: 1.255 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

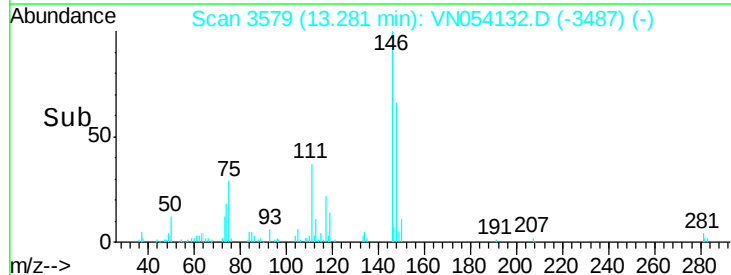
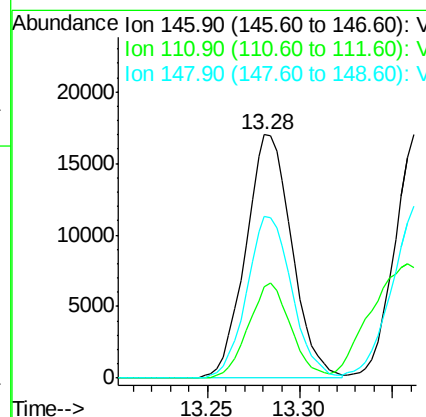
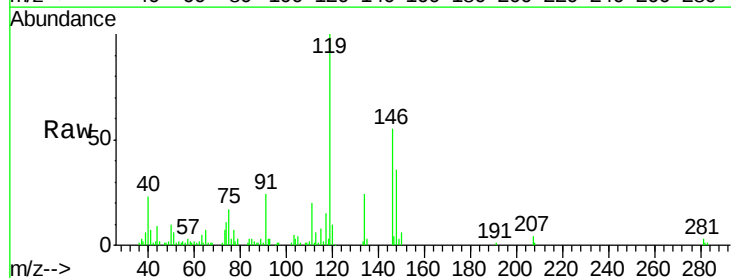
Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC001

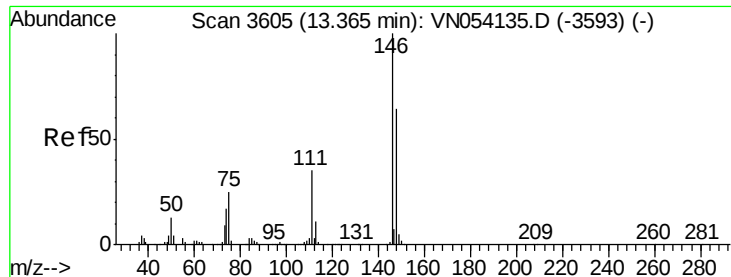
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.2	39.5
91	22.1	11.4	34.2



#87
 1,3-Dichlorobenzene
 Concen: 1.153 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.9	19.3	57.8
148	64.7	32.4	97.0





#88

1,4-Dichlorobenzene

Concen: 1.168 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. -0.08 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

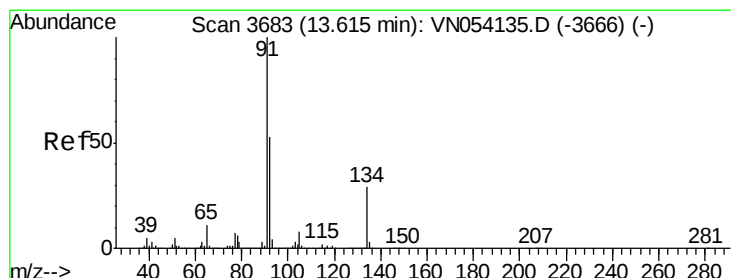
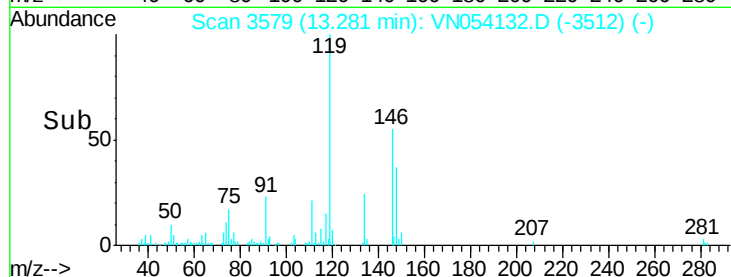
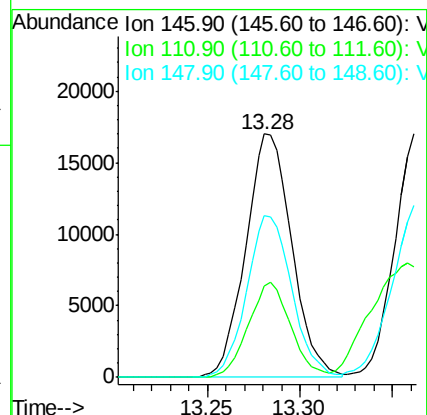
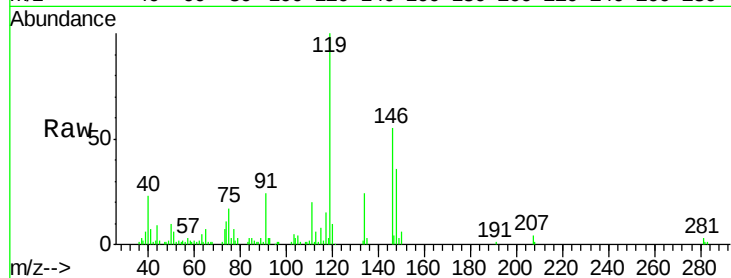
Tot Ion:146 Resp: 29343

Ion Ratio Lower Upper

146 100

111 35.9 18.9 56.5

148 64.7 32.1 96.5



#89

n-Butylbenzene

Concen: 1.037 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

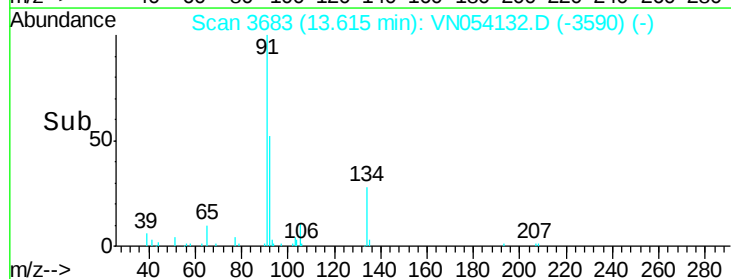
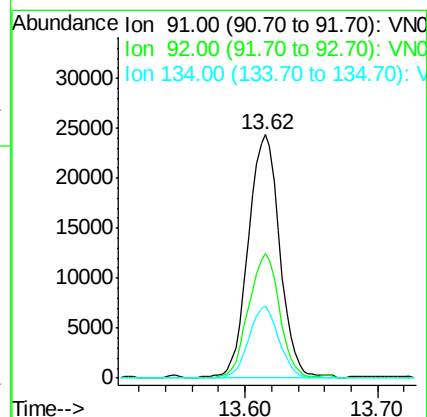
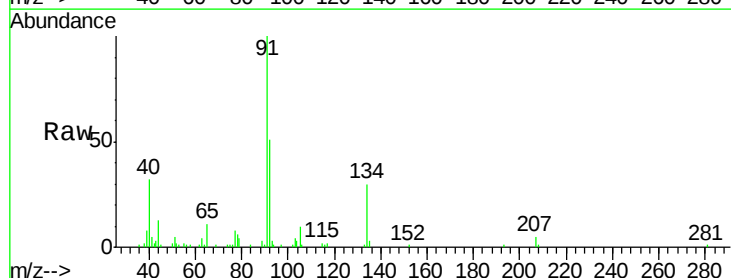
Tgt Ion: 91 Resp: 40255

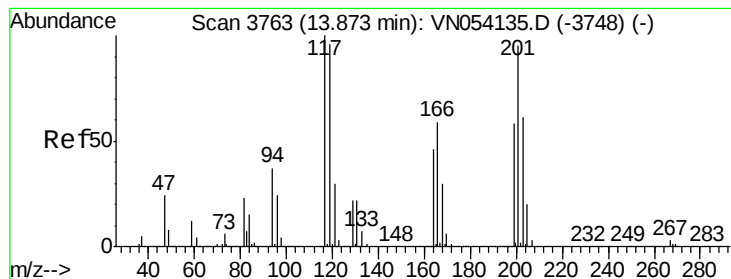
Ion Ratio Lower Upper

91 100

92 50.3 26.0 78.0

134 27.9 13.1 39.1





#90

Hexachloroethane

Concen: 1.237 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampleId :

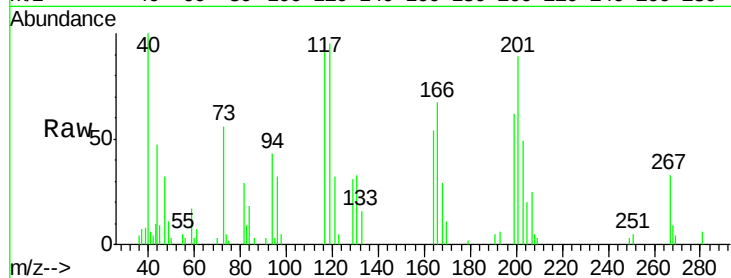
VSTDIC001

Tot Ion:117 Resp: 11182

Ion Ratio Lower Upper

117 100

201 91.6 44.9 134.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.87

6000

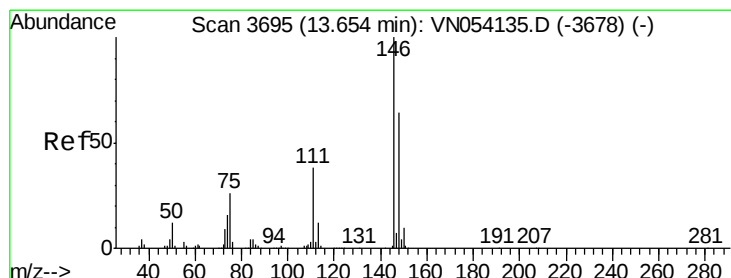
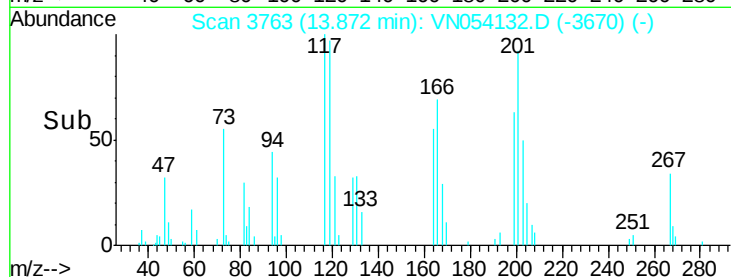
4000

2000

0

13.85 13.90

Time-->



#91

1,2-Dichlorobenzene

Concen: 1.160 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

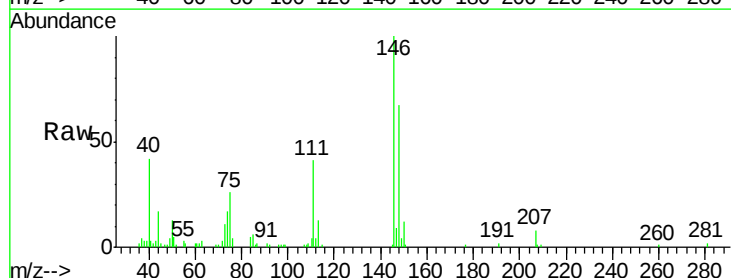
Tgt Ion:146 Resp: 28983

Ion Ratio Lower Upper

146 100

111 39.9 20.0 60.0

148 65.1 32.3 96.9



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

13.65

20000

15000

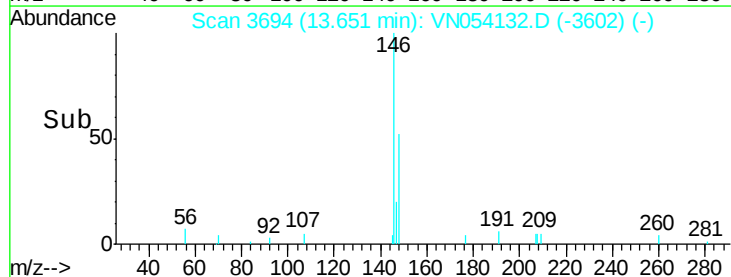
10000

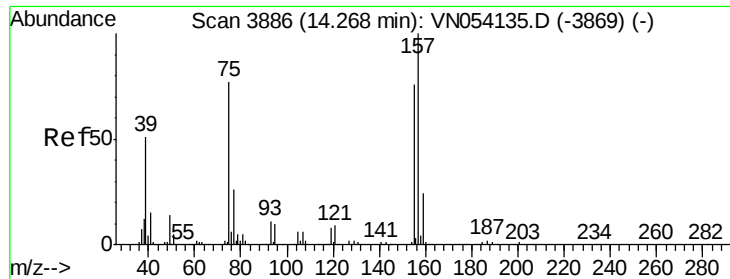
5000

0

13.60 13.65 13.70

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.275 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

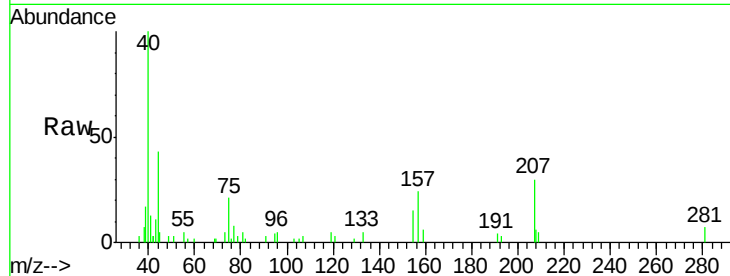
MSVOA_N

ClientSampled :

VSTDIC001

Tot Ion: 75 Resp: 2778

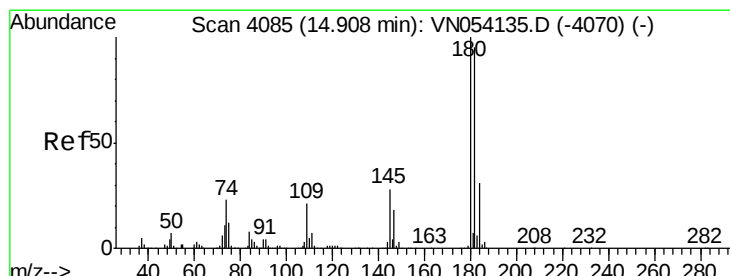
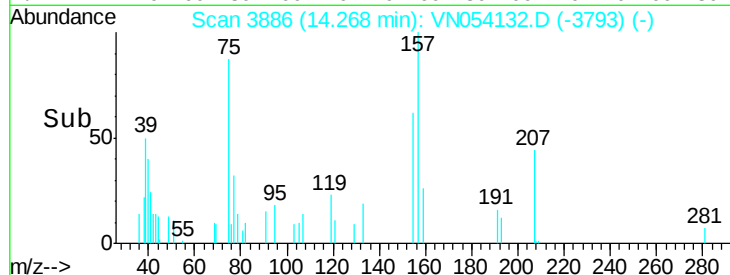
Ion	Ratio	Lower	Upper
75	100		
155	86.5	44.5	133.5
157	107.7	57.2	171.6



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.757 ug/l

RT: 14.91 min Scan# 4086

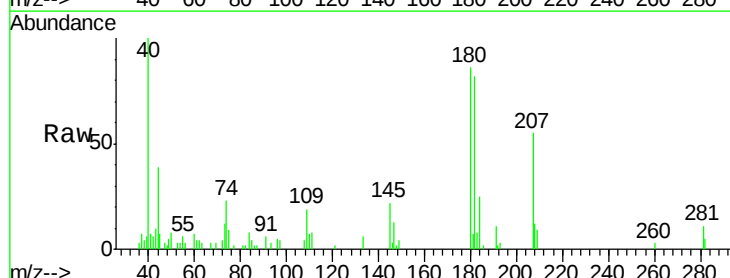
Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Tgt Ion:180 Resp: 9808

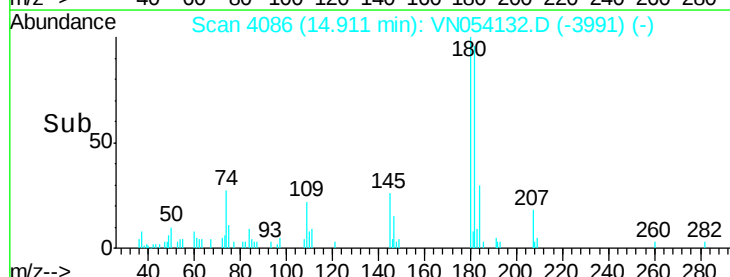
Ion	Ratio	Lower	Upper
180	100		
182	99.4	48.1	144.3
145	26.7	13.9	41.7

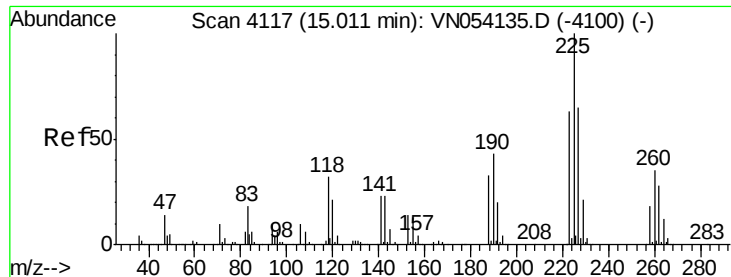


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.323 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

Instrument :

MSVOA_N

ClientSampled :

VSTDIC001

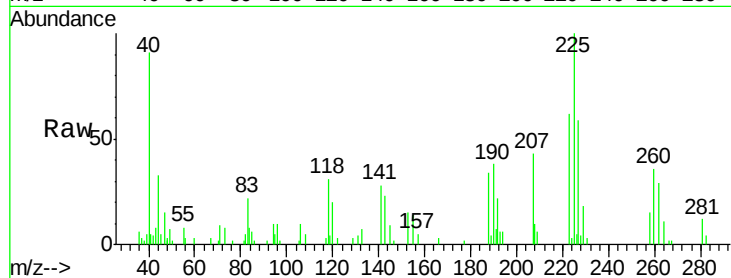
Tot Ion:225 Resp: 13069

Ion Ratio Lower Upper

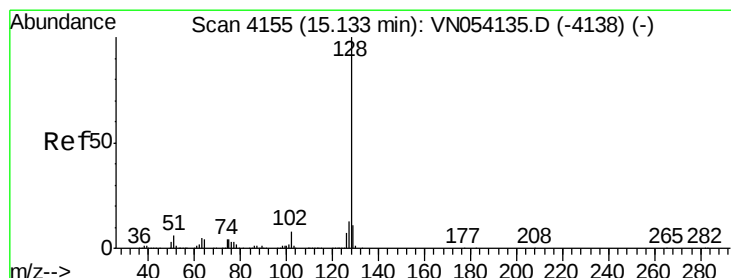
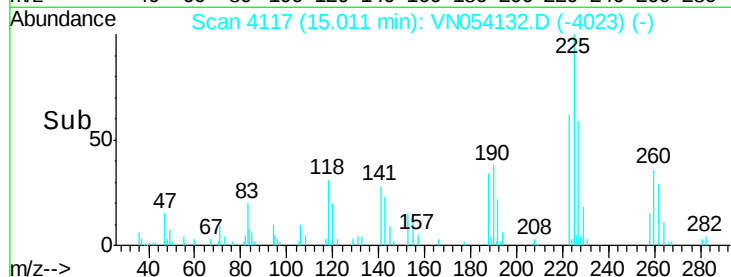
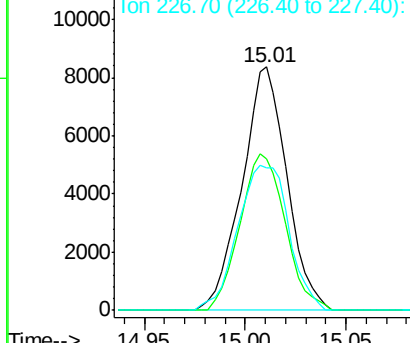
225 100

223 64.6 31.2 93.6

227 67.5 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.868 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054132.D

Acq: 11 Mar 2019 10:12

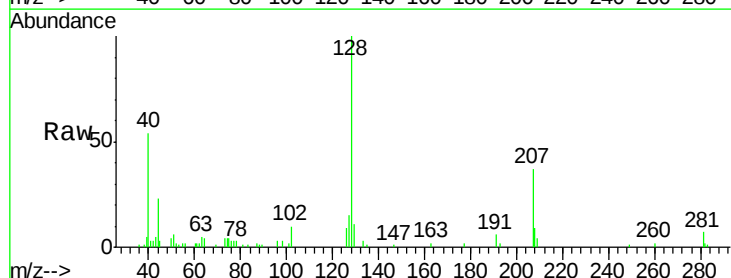
Tgt Ion:128 Resp: 23872

Ion Ratio Lower Upper

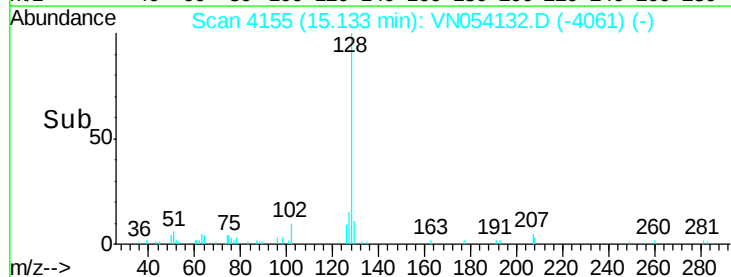
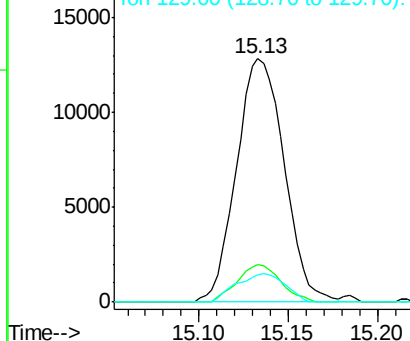
128 100

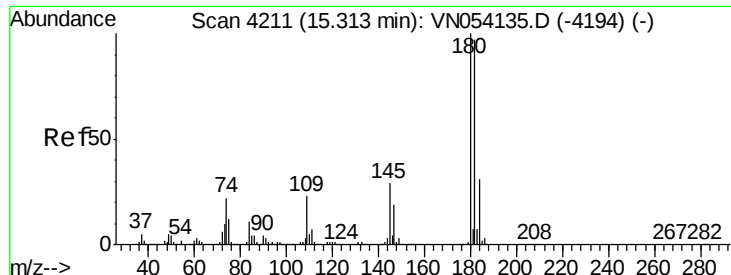
127 13.9 10.4 15.6

129 11.9 8.6 12.8



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: 0.840 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054132.D
 Acq: 11 Mar 2019 10:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC001

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.5	47.9	143.7
145	17.0	14.9	44.5

