

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055723.D
 Acq On : 22 May 2019 16:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: May 23 05:35:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	59214	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	315145	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	266511	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	114044	25.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	84.23%
60) 4-Bromofluorobenzene	12.40	95	115537	28.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.57%
63) Toluene-d8	10.09	98	376556	29.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	15169	4.883	ug/l 97
3) Chloromethane	2.06	50	20212	4.603	ug/l 99
4) Vinyl Chloride	2.19	62	19922	5.371	ug/l 99
5) Bromomethane	2.53	94	11876	5.618	ug/l 96
6) Chloroethane	2.68	64	11951	5.692	ug/l 92
7) Trichlorofluoromethane	3.00	101	25165	4.763	ug/l 97
8) Diethyl Ether	3.40	74	10826	4.935	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	15790	4.699	ug/l 99
10) 1,1-Dichloroethene	3.72	96	16497	5.150	ug/l 97
11) Methyl Iodide	3.94	142	20050	4.053	ug/l 98
12) Methyl Acetate	4.33	43	23118	5.166	ug/l 97
13) Acrolein	3.60	56	15641	57.677	ug/l 97
14) Acrylonitrile	4.99	53	43691	26.150	ug/l 99
15) Acetone	3.82	58	15026	35.022	ug/l 91
16) Carbon Disulfide	4.04	76	46024	5.188	ug/l 99
17) Allyl chloride	4.31	41	29109	4.325	ug/l 97
18) Methylene Chloride	4.54	84	18812	4.824	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	17453	5.015	ug/l 96
20) Diisopropyl ether	5.95	45	56459	4.212	ug/l 99
21) 1,1-Dichloroethane	5.84	63	31665	4.463	ug/l 97
22) cis-1,2-Dichloroethene	6.82	96	20027	4.937	ug/l 98
23) tert-Butyl Alcohol	4.74	59	16815	36.200	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	54708	5.188	ug/l 100
25) Chloroform	7.37	83	32010	4.760	ug/l 98
26) Cyclohexane	7.65	56	29671	4.733	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	22511	4.607	ug/l 98
30) 2-Butanone	6.85	43	61893	29.653	ug/l 99
31) 2,2-Dichloropropane	6.82	77	28578	5.910	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	28121	5.117	ug/l 98
33) Carbon Tetrachloride	7.77	117	25250	5.400	ug/l 95
34) Benzene	8.04	78	71267	4.851	ug/l # 72
35) Methacrylonitrile	7.18	41	10802	4.841	ug/l 97
36) 1,2-Dichloroethane	8.12	62	23565	4.575	ug/l 95
37) Trichloroethene	8.84	130	19913	5.263	ug/l 99
38) Methylcyclohexane	9.08	83	30176	5.590	ug/l 97
39) 1,2-Dichloropropane	9.12	63	19133	4.613	ug/l 98
40) Dibromomethane	9.21	93	12680	5.200	ug/l 99

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 Data File : VN055723.D
 Acq On : 22 May 2019 16:57
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Quant Time: May 23 05:35:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	26084	5.186	ug/l	94
42) Vinyl Acetate	5.90	43	236817	24.546	ug/l	100
43) Ethyl Acetate	6.93	43	25173	5.847	ug/l #	100
44) Isopropyl Acetate	8.17	43	39250	5.120	ug/l #	87
45) 1,4-Dioxane	9.20	88	7672	167.070	ug/l	95
46) Methyl methacrylate	9.20	41	17542	4.848	ug/l	97
47) n-amyl Acetate	12.07	43	31268	5.449	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	26158	5.148	ug/l	92
49) cis-1,3-Dichloropropene	9.84	75	29433	5.062	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	18294	5.405	ug/l	99
51) Ethyl methacrylate	10.43	69	27926	5.765	ug/l	97
52) 1,3-Dichloropropane	10.71	76	29148	4.906	ug/l	100
53) Dibromochloromethane	10.90	129	20820	5.751	ug/l	97
54) 1,2-Dibromoethane	11.00	107	18234	5.442	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	52208	33.603	ug/l	99
56) Bromoform	12.13	173	16728	6.655	ug/l #	93
58) 4-Methyl-2-Pentanone	9.99	43	120302	28.449	ug/l	99
59) 2-Hexanone	10.75	43	85021	30.693	ug/l	99
61) Tetrachloroethene	10.63	164	19304	5.553	ug/l	93
62) Toluene	10.16	91	75389	5.038	ug/l	99
64) Chlorobenzene	11.43	112	44746	5.022	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	18945	5.592	ug/l	100
66) Ethyl Benzene	11.51	91	81904	5.102	ug/l	98
67) m/p-Xylenes	11.62	106	61558	10.442	ug/l	100
68) o-Xylene	11.95	106	31269	5.338	ug/l	98
69) Styrene	11.96	104	47371	5.123	ug/l	100
70) Isopropylbenzene	12.25	105	81064	5.259	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	25426	5.807	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	30713	8.028	ug/l	63
73) Bromobenzene	12.53	156	20203	5.377	ug/l	98
74) n-propylbenzene	12.59	91	80666	4.718	ug/l	100
75) 2-Chlorotoluene	12.67	91	51422	4.900	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	65718	5.168	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	8475	7.531	ug/l	97
78) 4-Chlorotoluene	12.77	91	44396	4.463	ug/l	99
79) tert-butylbenzene	12.99	119	60604	5.509	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	65035	5.298	ug/l	98
81) sec-Butylbenzene	13.17	105	72937	5.065	ug/l	99
82) p-Isopropyltoluene	13.29	119	65406	5.349	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	27623	4.553	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	24793	4.332	ug/l	97
85) n-Butylbenzene	13.61	91	44935	4.774	ug/l	99
86) Hexachloroethane	13.87	117	13524	6.216	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	29782	4.902	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	4562	6.619	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	10820	4.198	ug/l	95
90) Hexachlorobutadiene	15.01	225	13624	6.405	ug/l	97
91) Naphthalene	15.13	128	32086	5.092	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	12772	4.709	ug/l	96

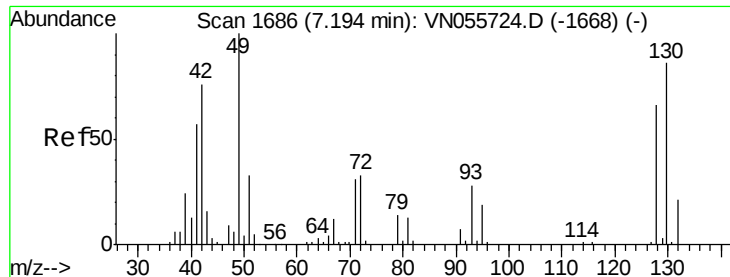
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
Data File : VN055723.D
Acq On : 22 May 2019 16:57
Operator : JC/SP
Sample : VSTDICC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: May 23 05:35:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:31:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

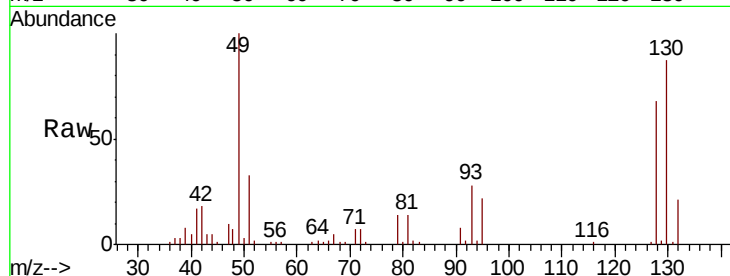
Tot Ion:128 Resp: 59214

Ion Ratio Lower Upper

128 100

49 150.2 0.0 383.2

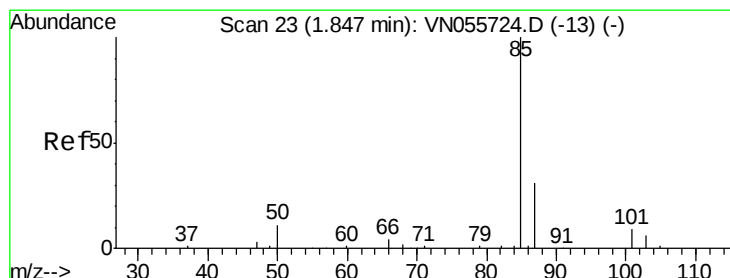
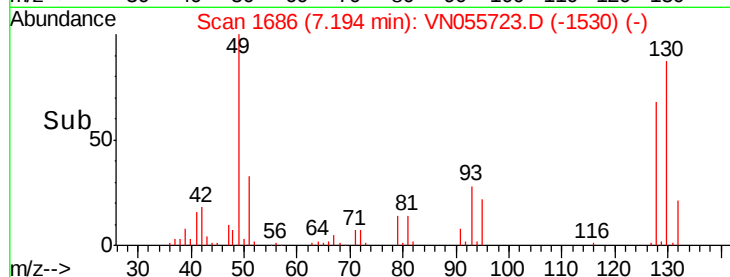
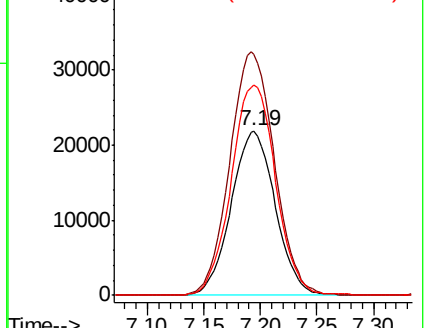
130 129.7 0.0 326.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 4.883 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055723.D

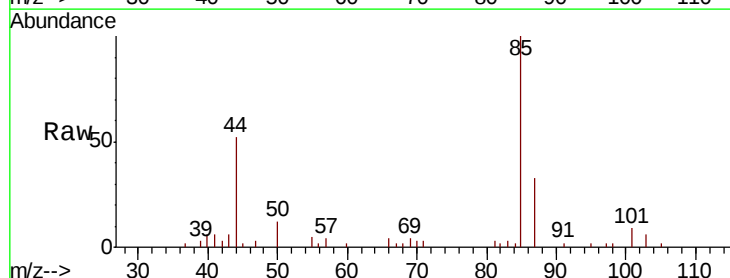
Acq: 22 May 2019 16:57

Tgt Ion: 85 Resp: 15169

Ion Ratio Lower Upper

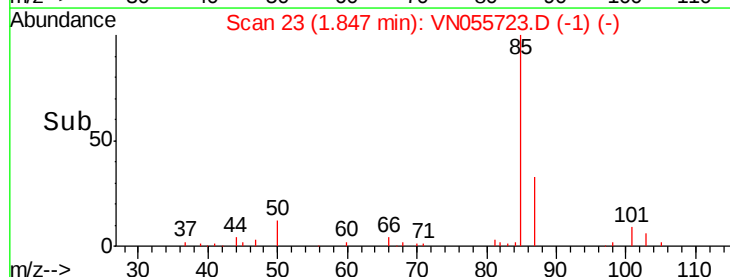
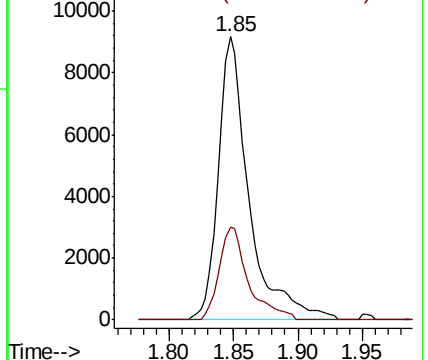
85 100

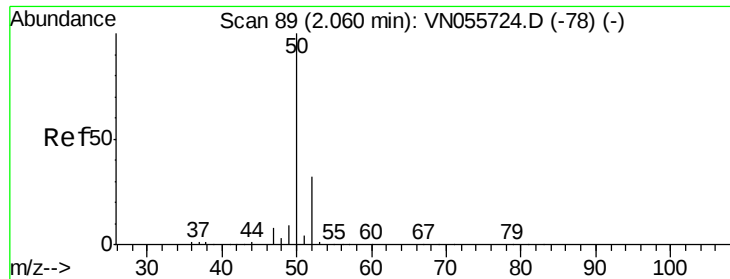
87 32.8 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 4.603 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

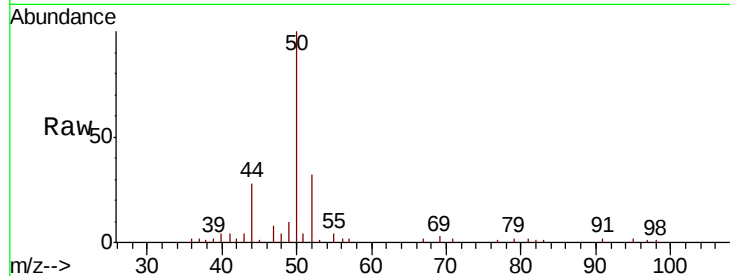
VSTDIC005

Tot Ion: 50 Resp: 20212

Ion Ratio Lower Upper

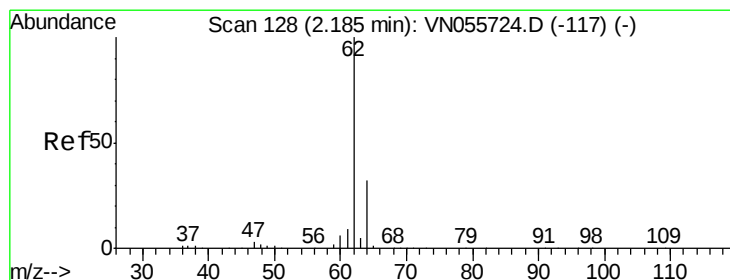
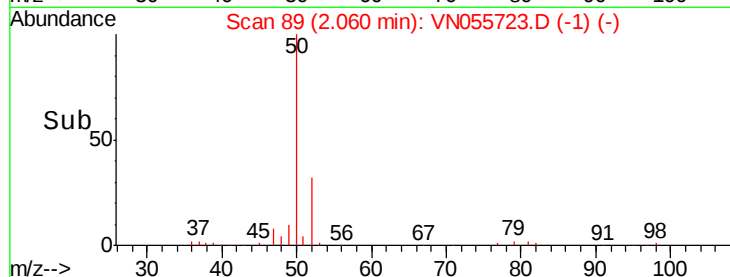
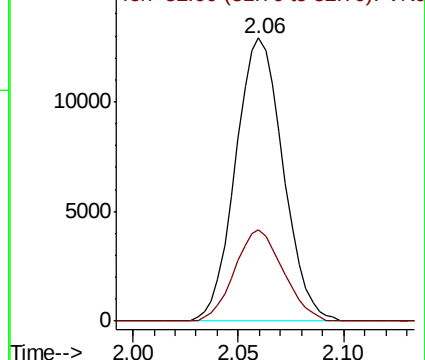
50 100

52 32.2 25.4 38.2



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 5.371 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055723.D

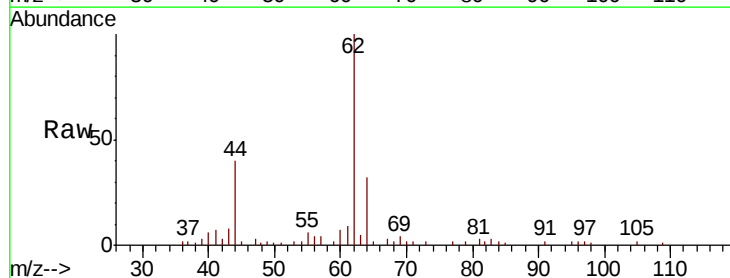
Acq: 22 May 2019 16:57

Tgt Ion: 62 Resp: 19922

Ion Ratio Lower Upper

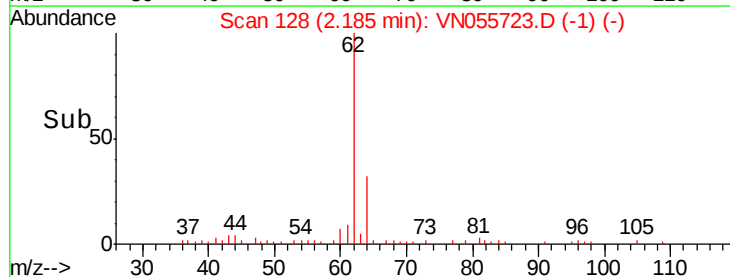
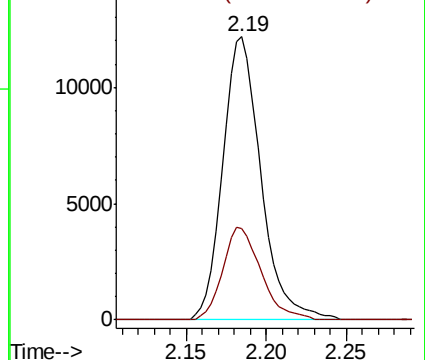
62 100

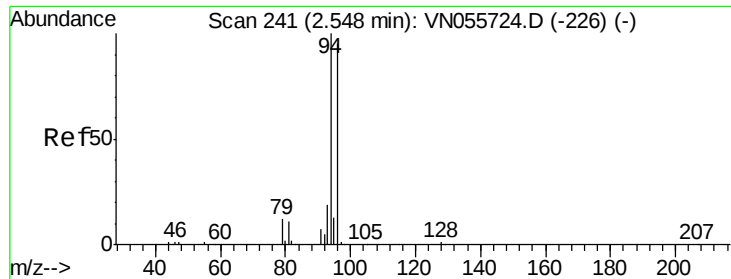
64 32.5 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 5.618 ug/l

RT: 2.53 min Scan# 236

Delta R.T. -0.02 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

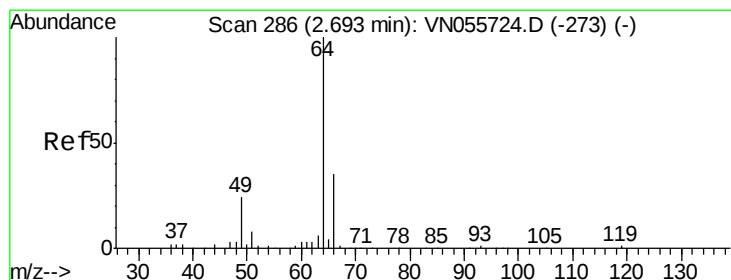
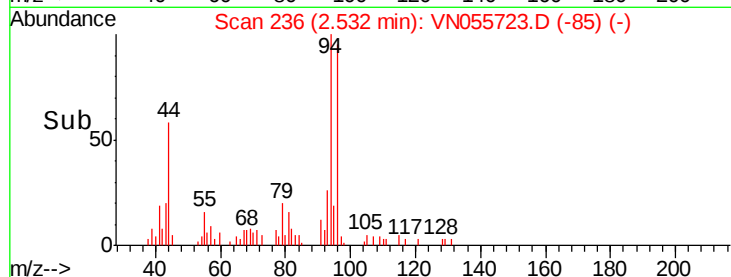
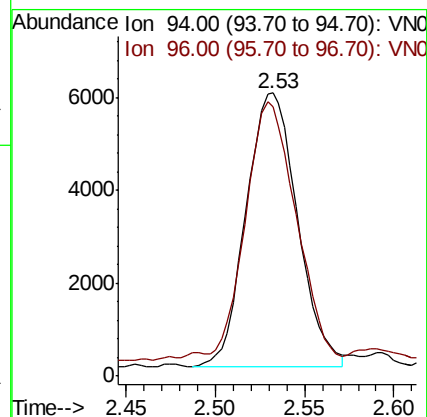
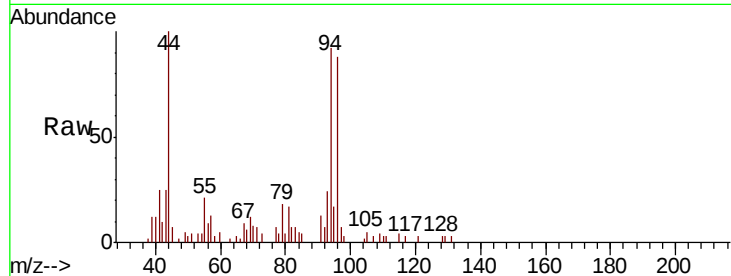
VSTDIC005

Tot Ion: 94 Resp: 11876

Ion Ratio Lower Upper

94 100

96 91.3 75.8 113.8



#6

Chloroethane

Concen: 5.692 ug/l

RT: 2.68 min Scan# 283

Delta R.T. -0.01 min

Lab File: VN055723.D

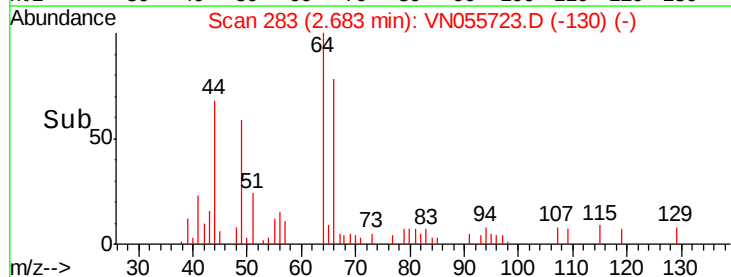
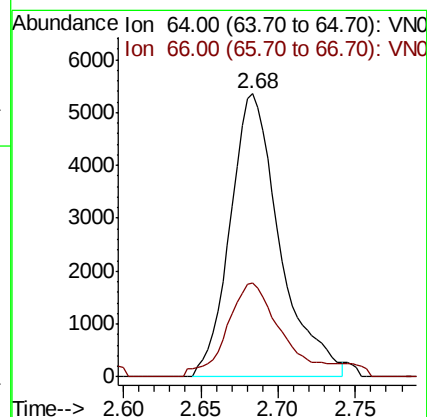
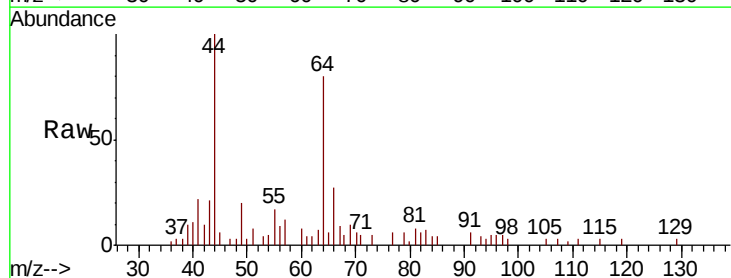
Acq: 22 May 2019 16:57

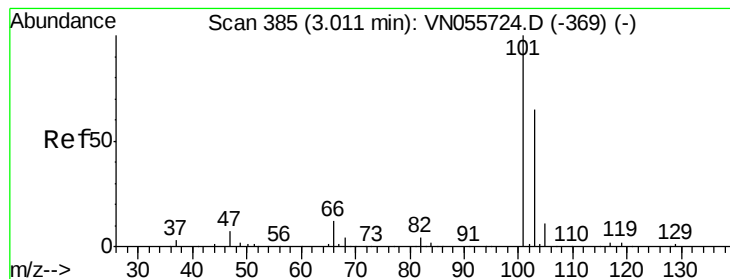
Tgt Ion: 64 Resp: 11951

Ion Ratio Lower Upper

64 100

66 30.4 27.9 41.9



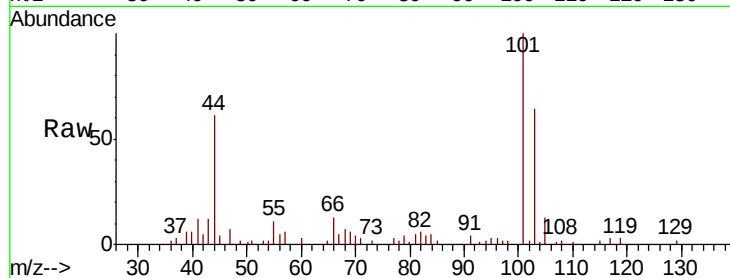


#7

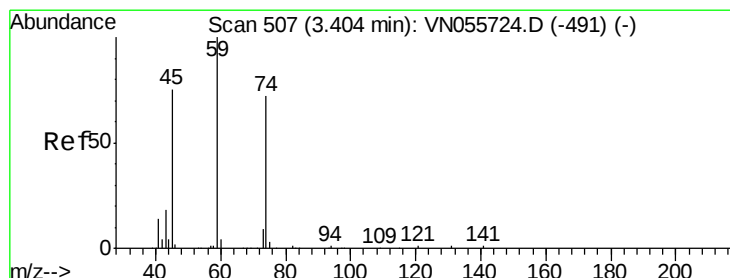
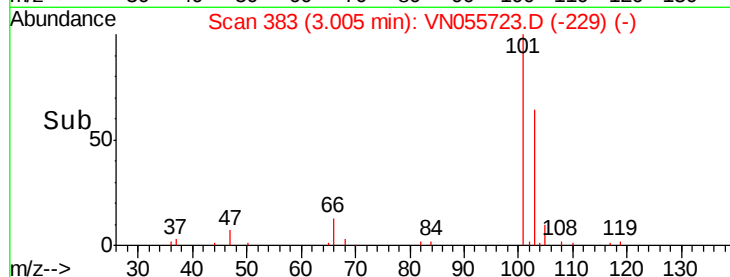
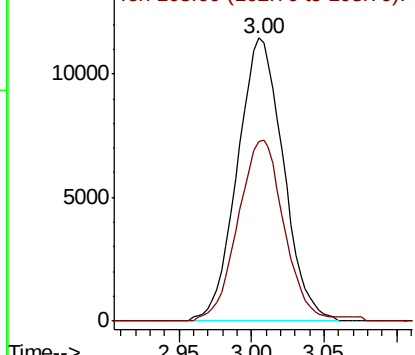
Trichlorofluoromethane
Concen: 4.763 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.01 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 25165
Ion Ratio Lower Upper
101 100
103 63.6 52.6 78.8



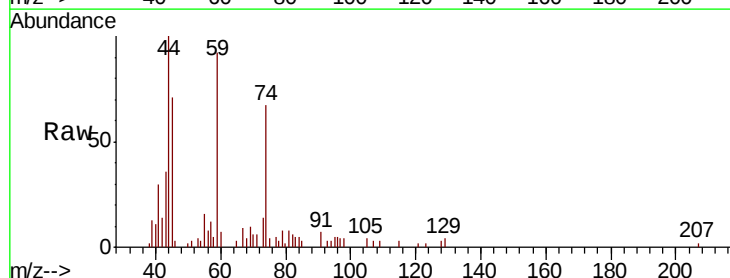
Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



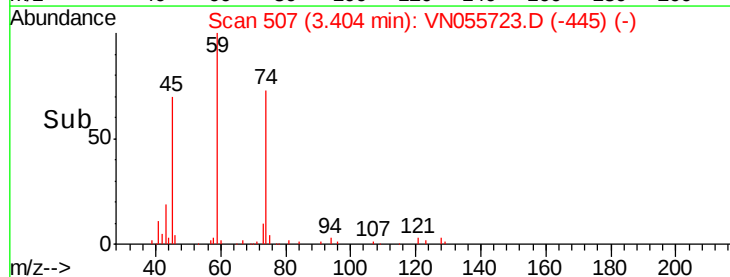
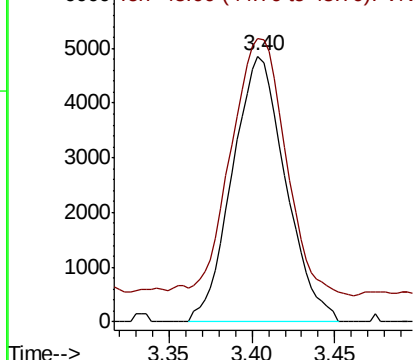
#8

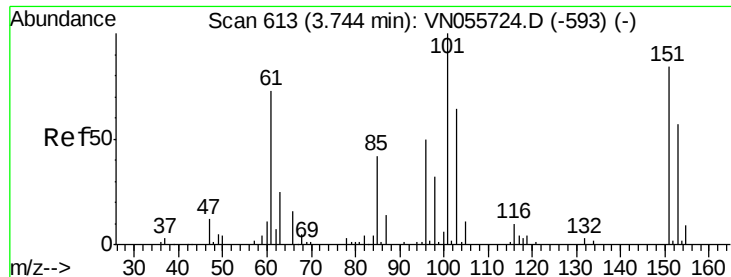
Diethyl Ether
Concen: 4.935 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 74 Resp: 10826
Ion Ratio Lower Upper
74 100
45 99.4 20.4 184.0



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: 4.699 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

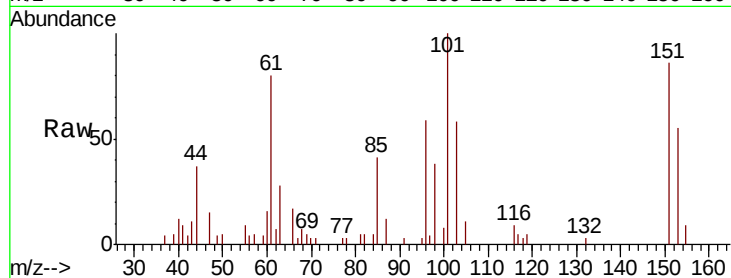
Tot Ion:101 Resp: 15790

Ion Ratio Lower Upper

101 100

85 45.0 0.0 86.6

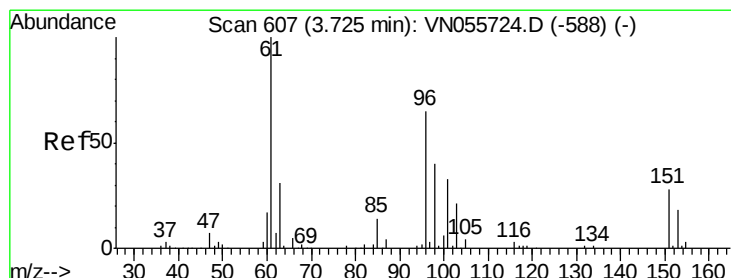
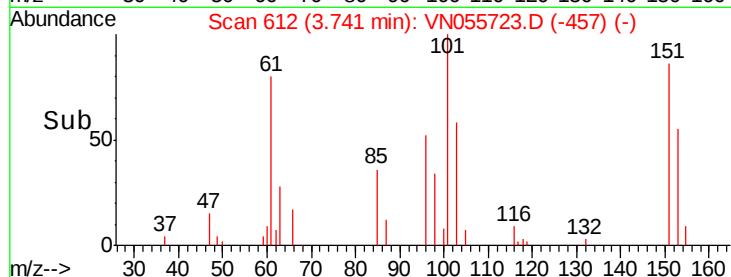
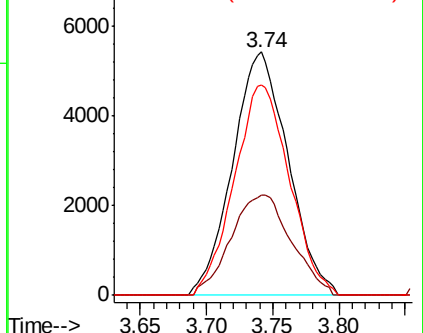
151 86.1 0.0 172.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VNO

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 5.150 ug/l

RT: 3.72 min Scan# 605

Delta R.T. -0.01 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

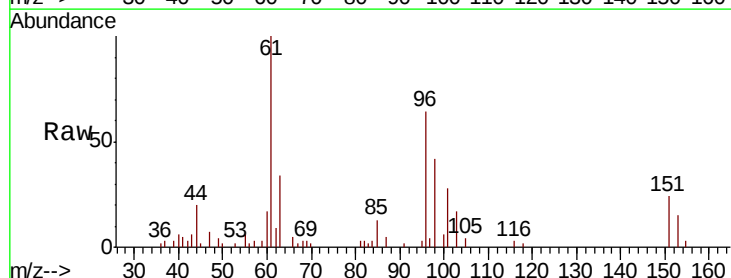
Tgt Ion: 96 Resp: 16497

Ion Ratio Lower Upper

96 100

61 157.4 123.7 185.5

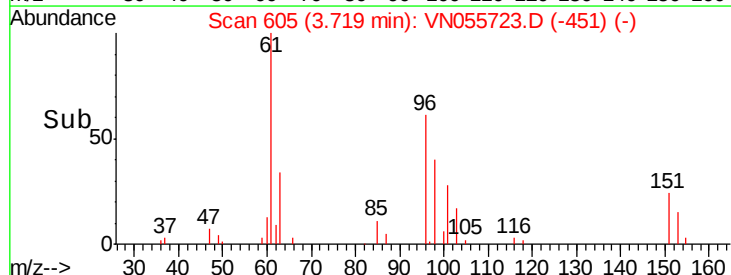
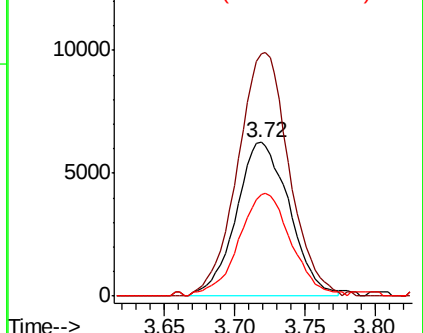
98 66.1 50.0 75.0

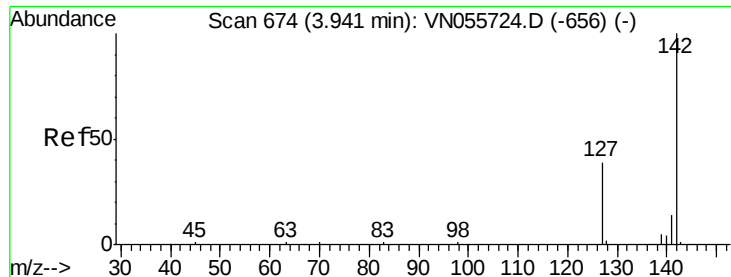


Abundance Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

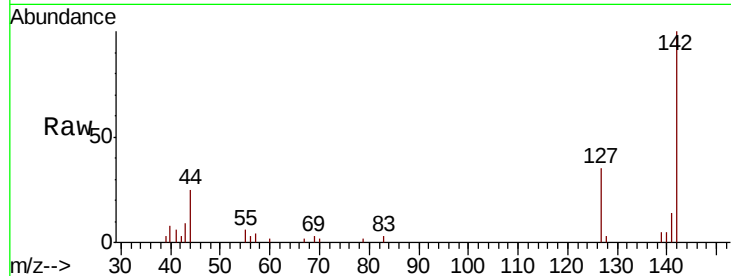




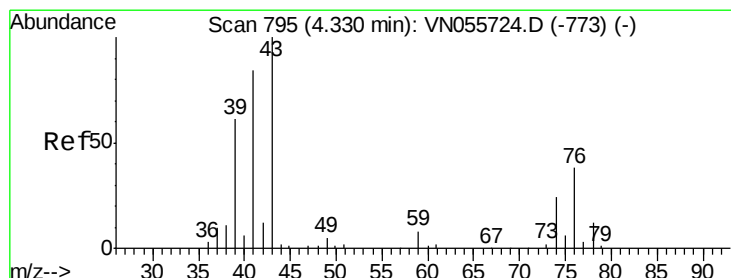
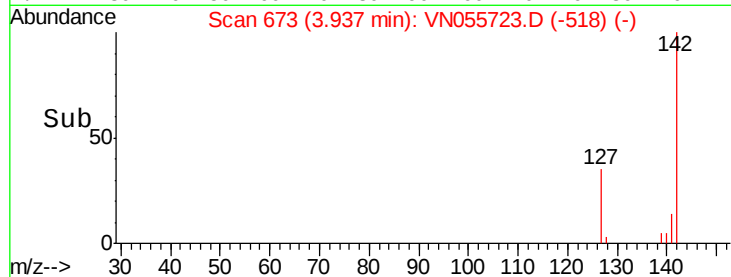
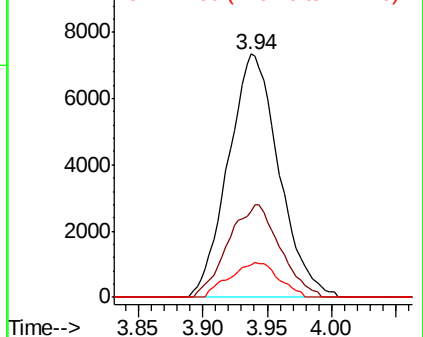
#11
Methvl Iodide
Concen: 4.053 ug/l
RT: 3.94 min Scan# 673
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:142 Resp: 20050
Ion Ratio Lower Upper
142 100
127 37.9 19.6 58.7
141 13.6 6.9 20.6

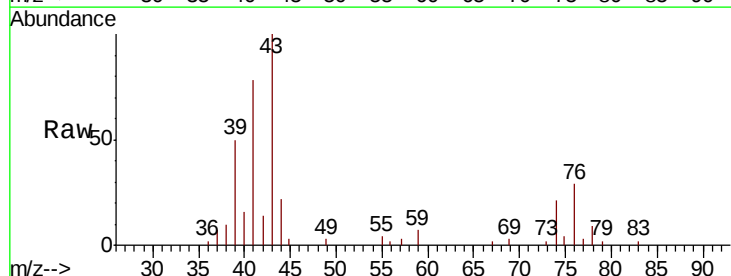


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V

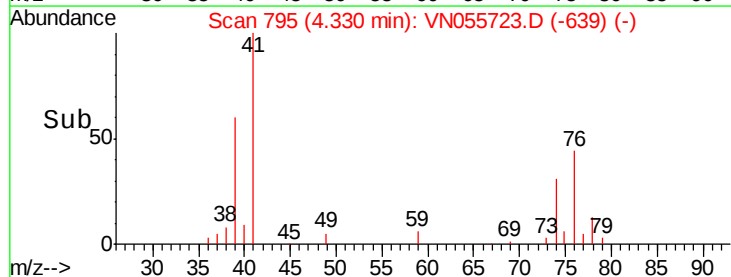
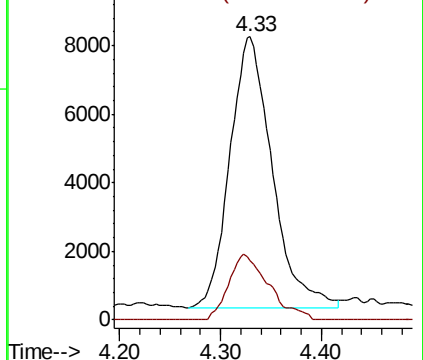


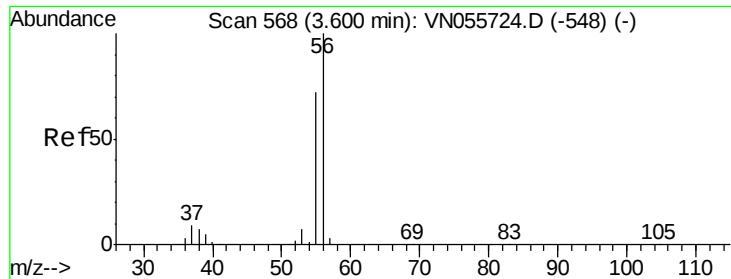
#12
Methyl Acetate
Concen: 5.166 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 23118
Ion Ratio Lower Upper
43 100
74 22.3 19.2 28.8



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





#13

Acrolein

Concen: 57.677 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

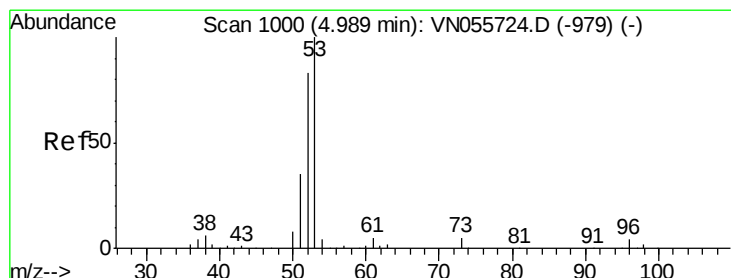
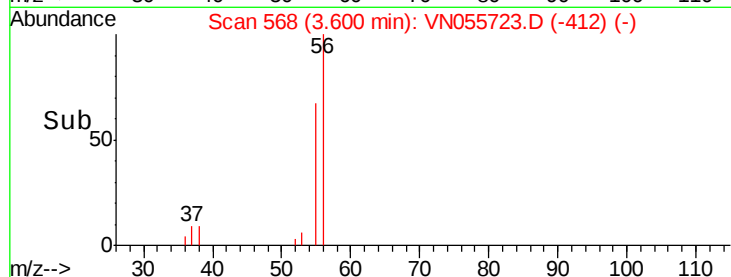
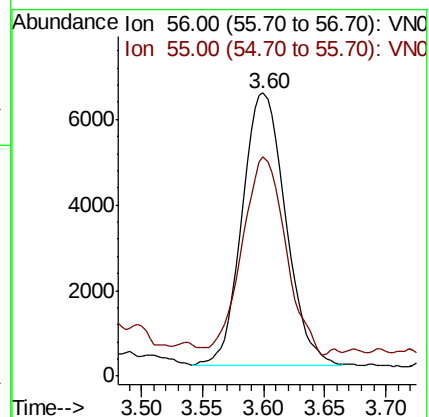
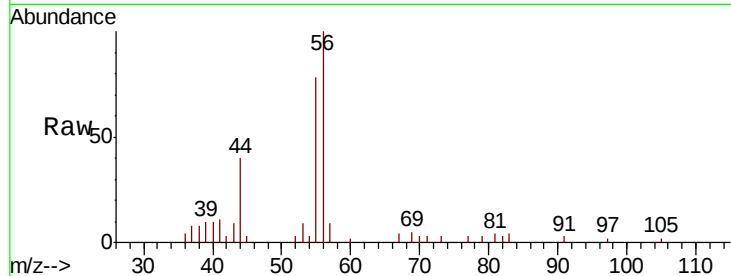
VSTDIC005

Tot Ion: 56 Resp: 15641

Ion Ratio Lower Upper

56 100

55 73.8 57.0 85.6



#14

Acrylonitrile

Concen: 26.150 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

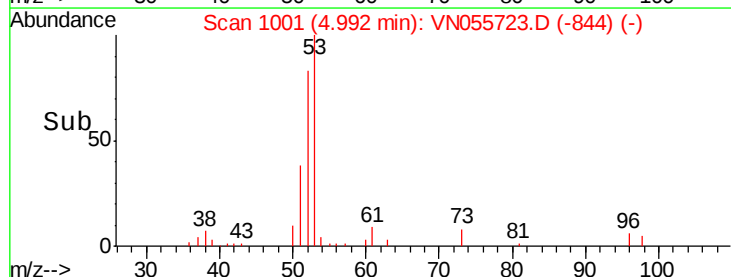
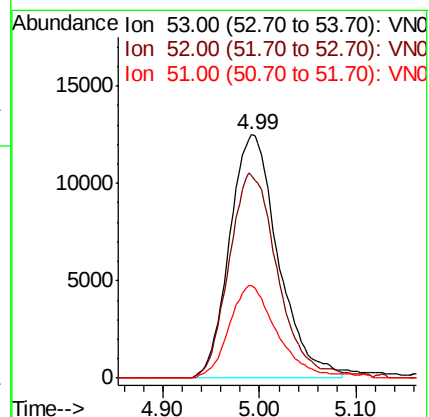
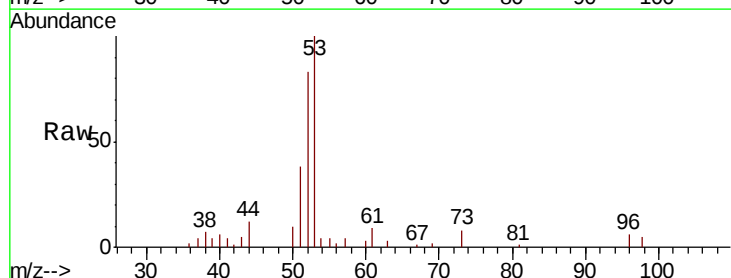
Tgt Ion: 53 Resp: 43691

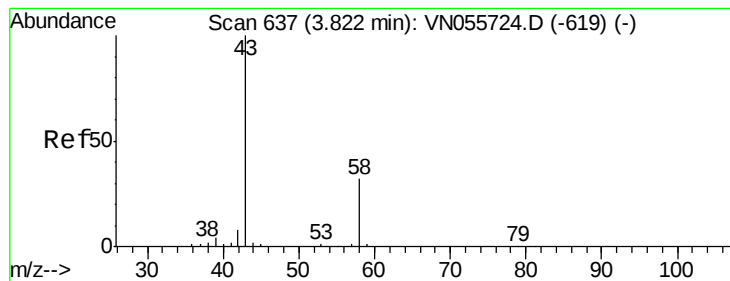
Ion Ratio Lower Upper

53 100

52 82.8 41.1 123.4

51 37.1 17.5 52.6





#15

Acetone

Concen: 35.022 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

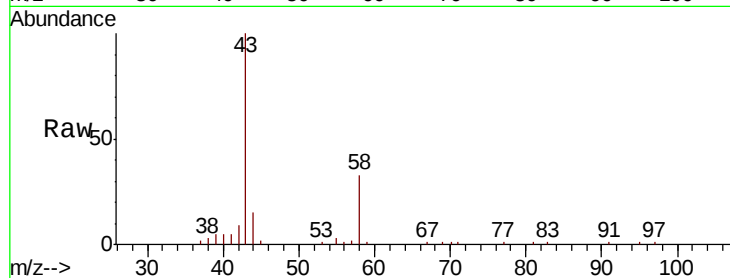
VSTDIC005

Tot Ion: 58 Resp: 15026

Ion Ratio Lower Upper

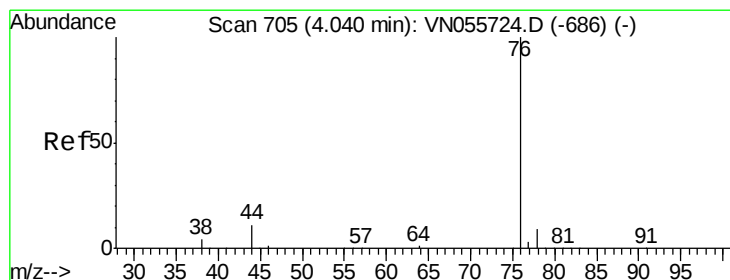
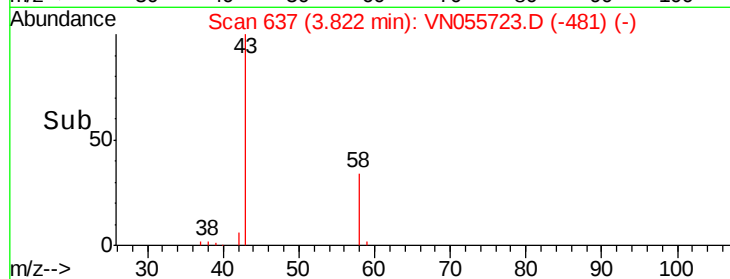
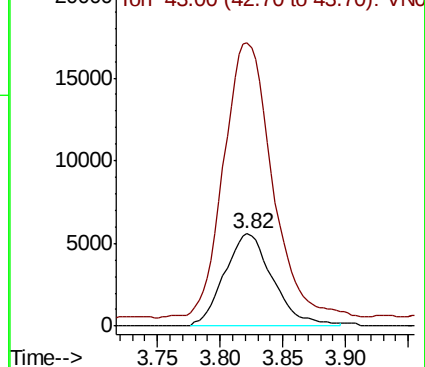
58 100

43 292.7 248.8 373.2



Abundance Ion 58.00 (57.70 to 58.70): VN055723.D (-481) (-)

Ion 43.00 (42.70 to 43.70): VN055723.D (-481) (-)



#16

Carbon Disulfide

Concen: 5.188 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN055723.D

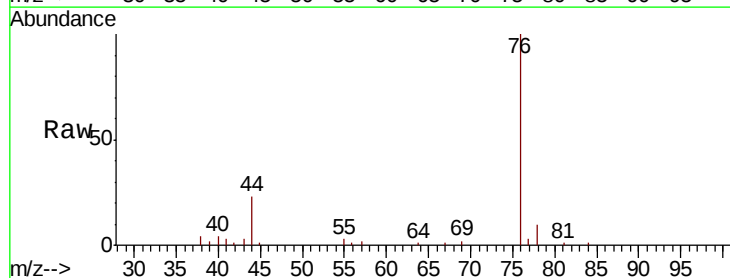
Acq: 22 May 2019 16:57

Tgt Ion: 76 Resp: 46024

Ion Ratio Lower Upper

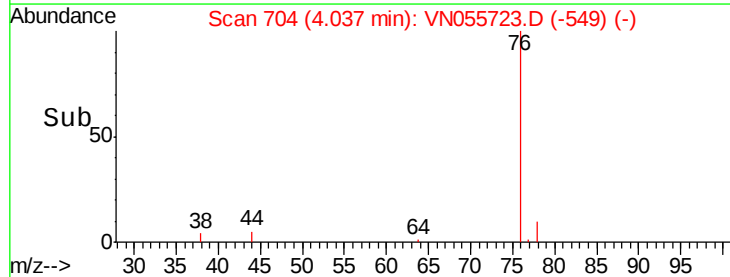
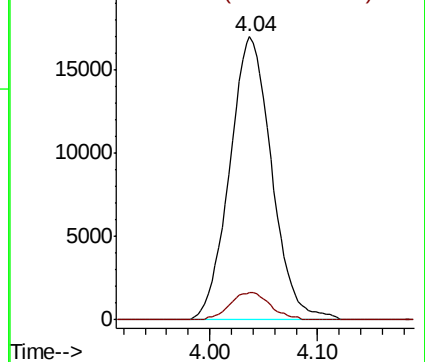
76 100

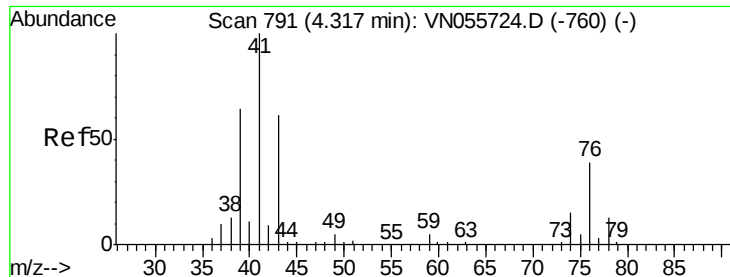
78 9.6 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN055723.D (-549) (-)

Ion 78.00 (77.70 to 78.70): VN055723.D (-549) (-)





#17

Allvl chloride

Concen: 4.325 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

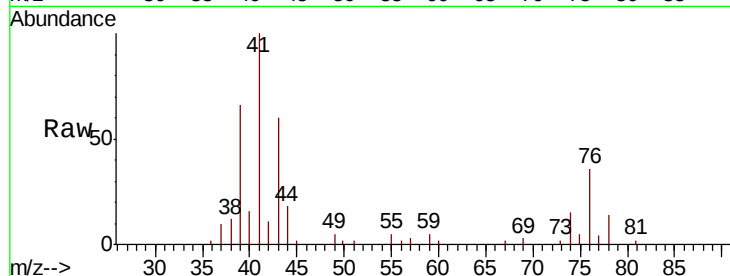
Tot Ion: 41 Resp: 29109

Ion Ratio Lower Upper

41 100

39 66.4 31.8 95.3

76 37.8 19.3 57.9

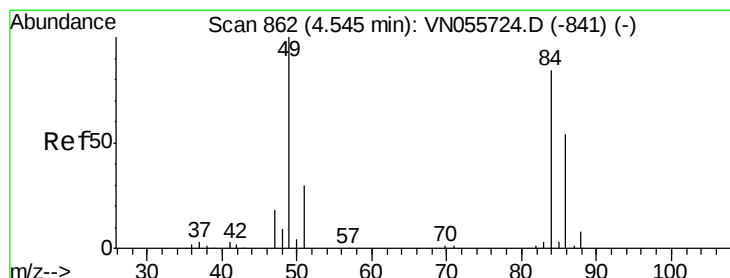
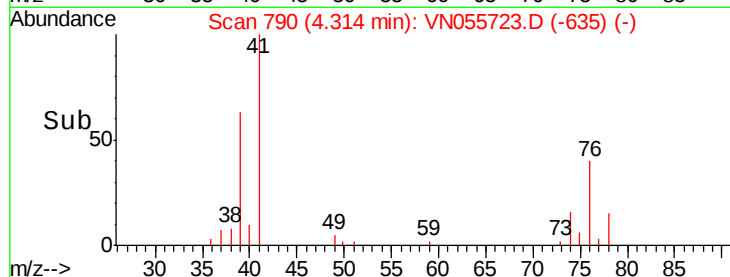
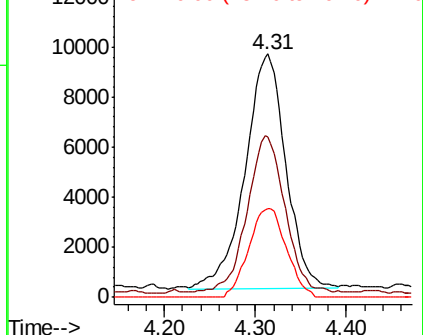


Abundance

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 76.00 (75.70 to 76.70): VN0



#18

Methylene Chloride

Concen: 4.824 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Tgt Ion: 84 Resp: 18812

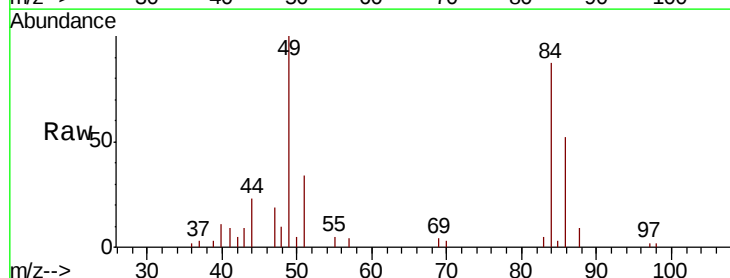
Ion Ratio Lower Upper

84 100

49 115.5 94.7 142.1

51 38.8 28.6 43.0

86 60.1 51.0 76.6



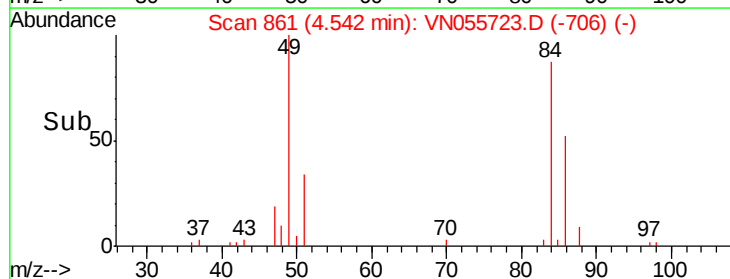
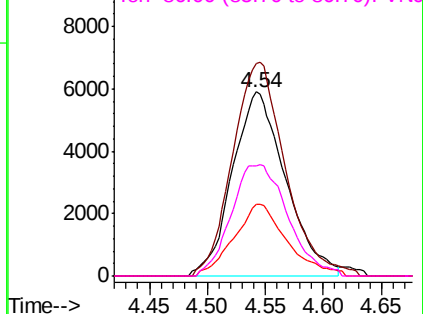
Abundance

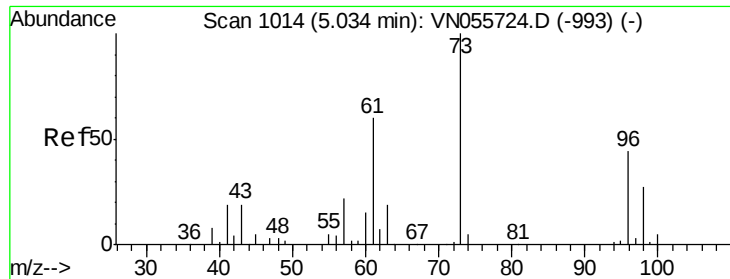
Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

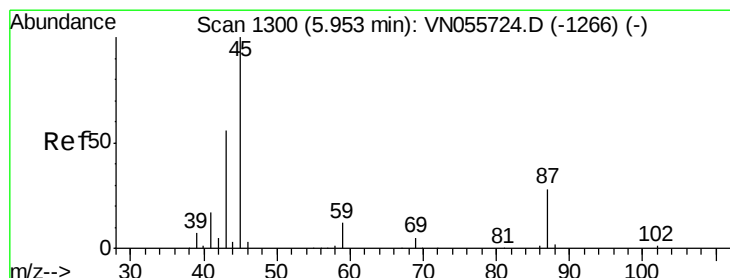
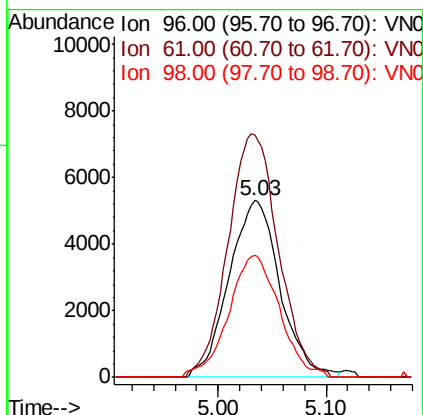
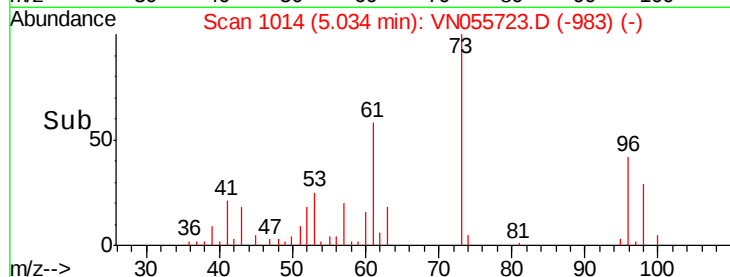
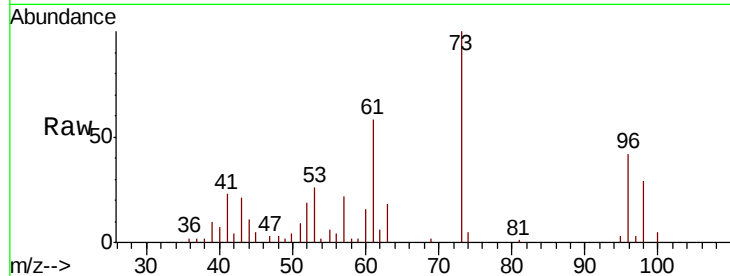




#19
trans-1,2-Dichloroethene
Concen: 5.015 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

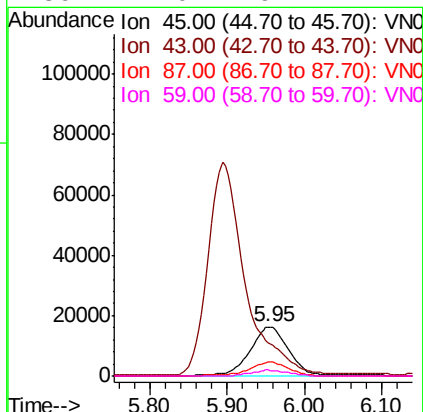
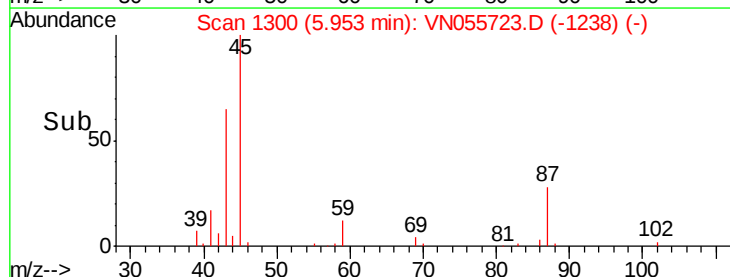
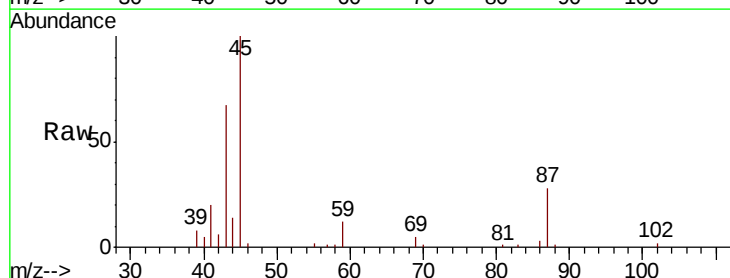
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

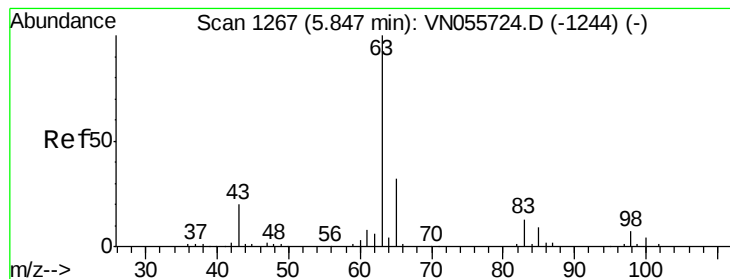
Tot Ion: 96 Resp: 17453
Ion Ratio Lower Upper
96 100
61 137.4 108.5 162.7
98 69.3 49.4 74.2



#20
Diisopropyl ether
Concen: 4.212 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 45 Resp: 56459
Ion Ratio Lower Upper
45 100
43 61.9 48.6 73.0
87 28.2 22.6 34.0
59 12.0 9.4 14.2





#21

1,1-Dichloroethane

Concen: 4.463 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

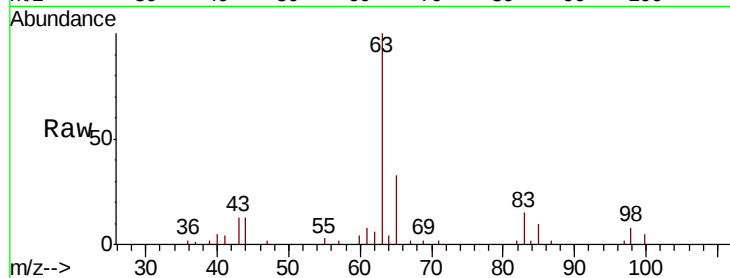
Tot Ion: 63 Resp: 31665

Ion Ratio Lower Upper

63 100

98 8.2 3.4 10.2

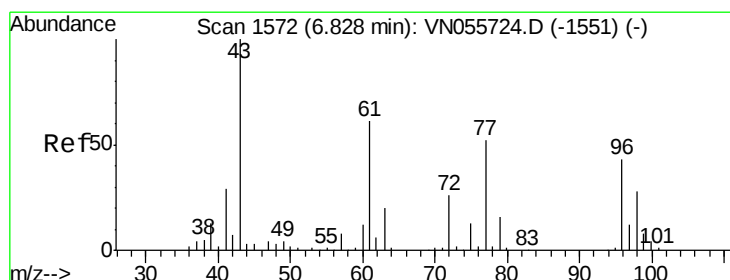
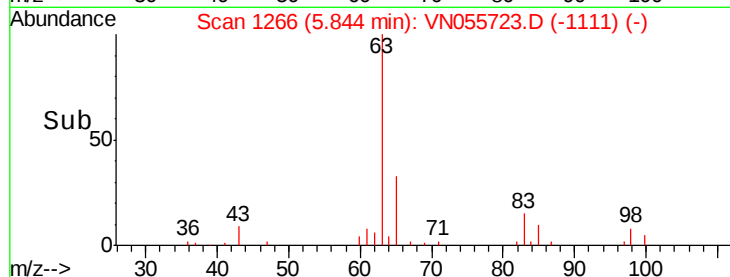
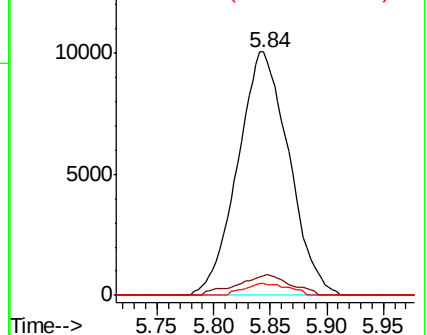
100 4.7 2.2 6.6



Abundance Ion 63.00 (62.70 to 63.70): VN055723.D (-1266) (-)

Ion 98.00 (97.70 to 98.70): VN055723.D (-1266) (-)

Ion 100.00 (99.70 to 100.70): VN055723.D (-1266) (-)



#22

cis-1,2-Dichloroethene

Concen: 4.937 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

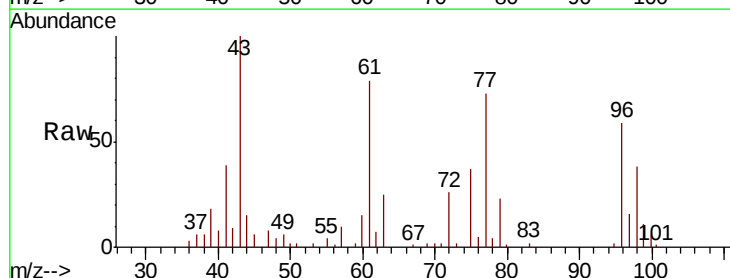
Tgt Ion: 96 Resp: 20027

Ion Ratio Lower Upper

96 100

61 145.4 115.7 173.5

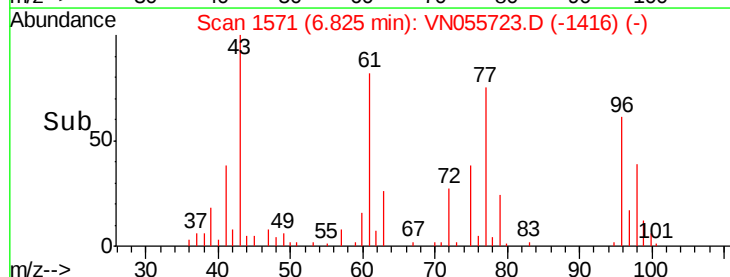
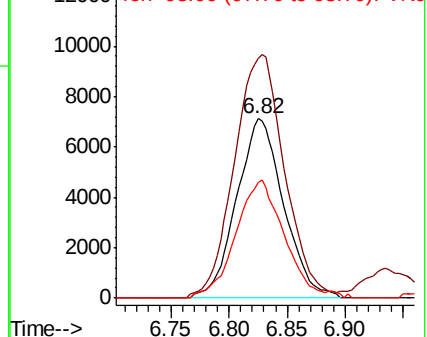
98 67.1 51.5 77.3

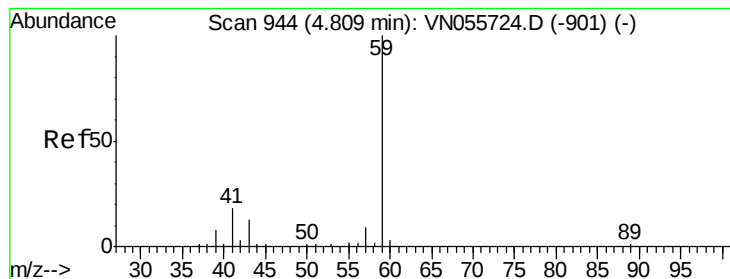


Abundance Ion 96.00 (95.70 to 96.70): VN055723.D (-1571) (-)

Ion 61.00 (60.70 to 61.70): VN055723.D (-1571) (-)

Ion 98.00 (97.70 to 98.70): VN055723.D (-1571) (-)





#23

tert-Butyl Alcohol

Concen: 36.200 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

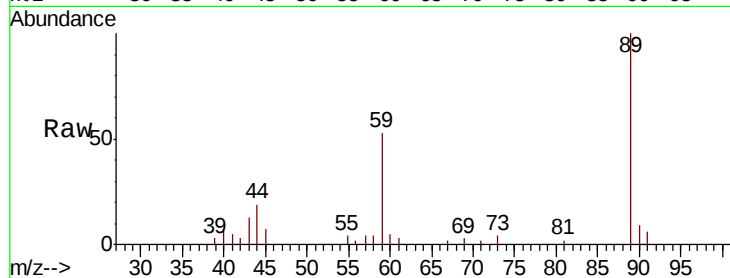
VSTDIC005

Tot Ion: 59 Resp: 16815

Ion Ratio Lower Upper

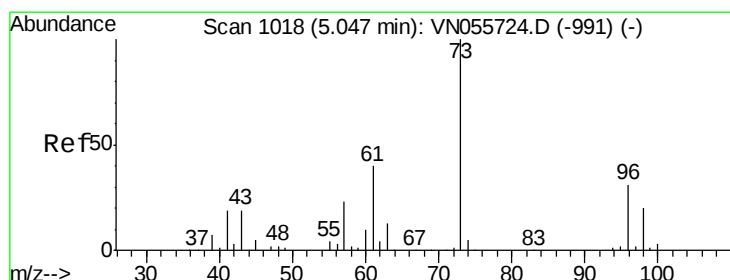
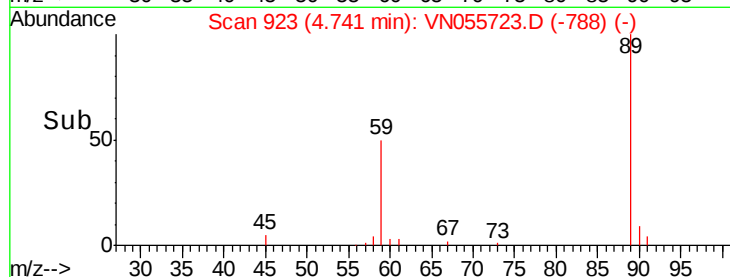
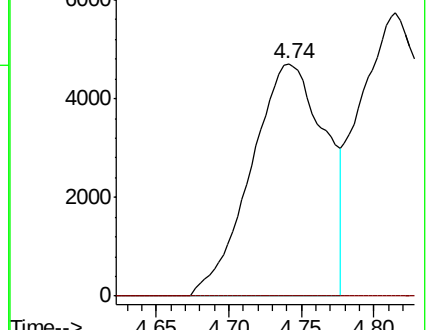
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN055723.D (-901) (-)

Ion 52.00 (51.70 to 52.70): VN055723.D (-901) (-)



#24

Methyl tert-Butyl Ether

Concen: 5.188 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VN055723.D

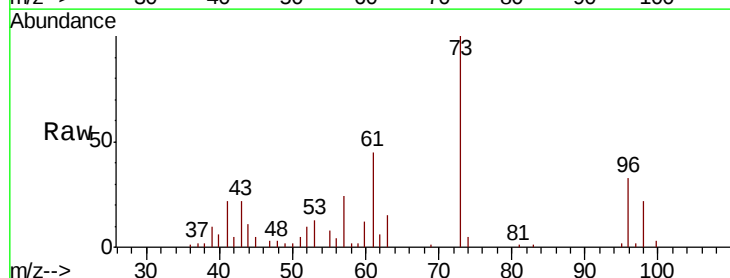
Acq: 22 May 2019 16:57

Tgt Ion: 73 Resp: 54708

Ion Ratio Lower Upper

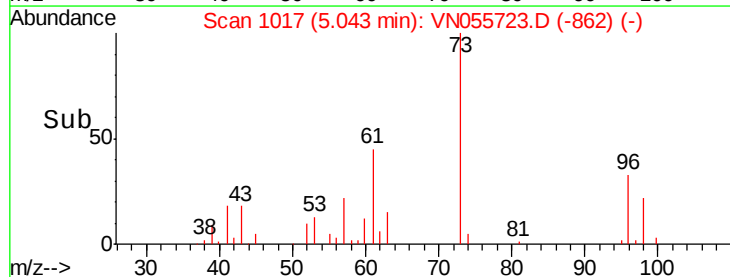
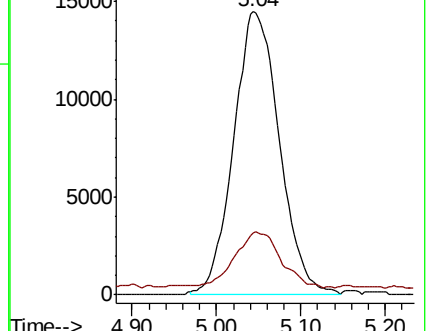
73 100

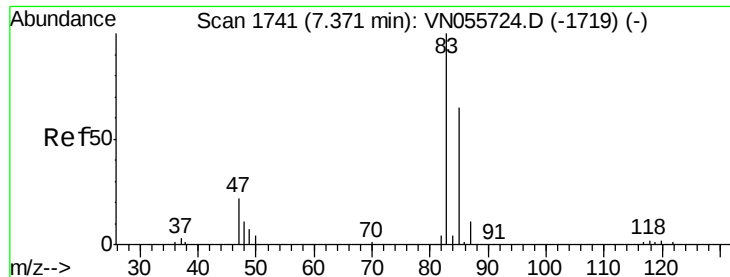
43 19.8 15.7 23.5



Abundance Ion 73.00 (72.70 to 73.70): VN055723.D (-991) (-)

Ion 43.00 (42.70 to 43.70): VN055723.D (-991) (-)

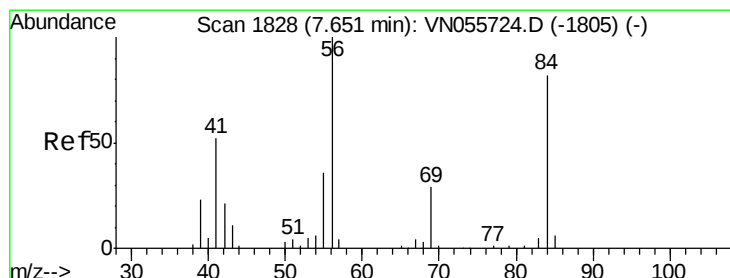
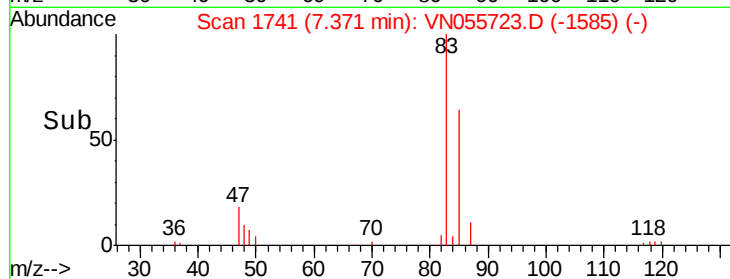
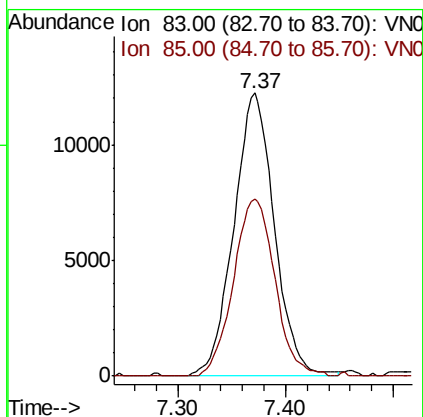
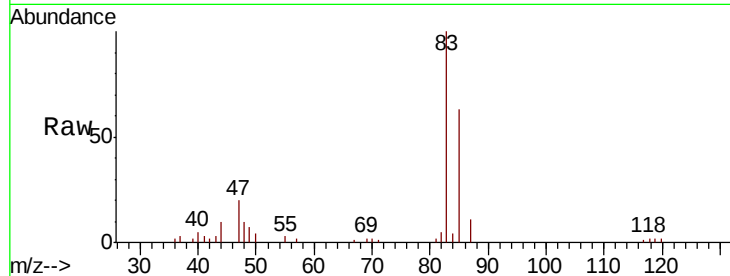




#25
Chloroform
Concen: 4.760 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

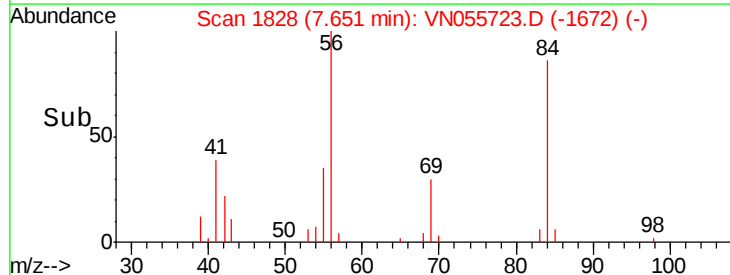
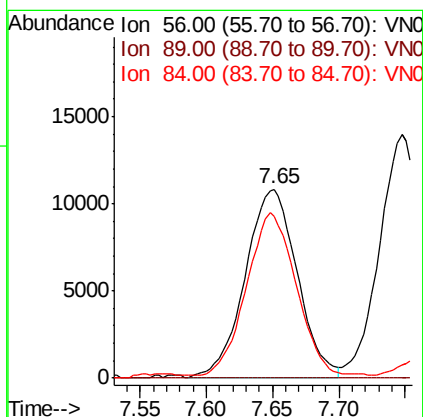
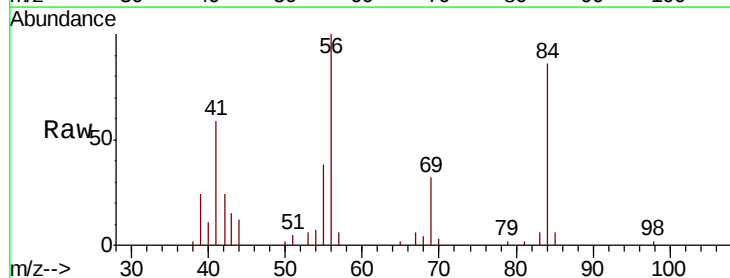
Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

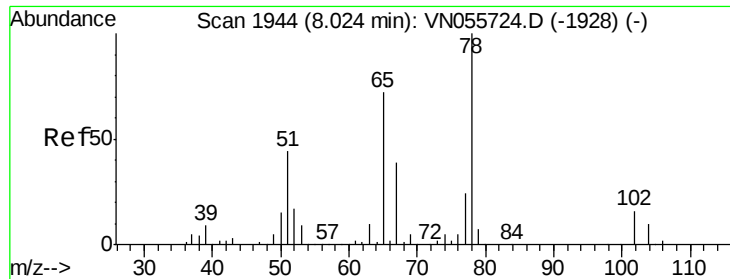
Tot Ion: 83 Resp: 32010
Ion Ratio Lower Upper
83 100
85 62.8 51.7 77.5



#26
Cyclohexane
Concen: 4.733 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 56 Resp: 29671
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 81.3 67.2 100.8





#27

1,2-Dichloroethane-d4

Concen: 25.269 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

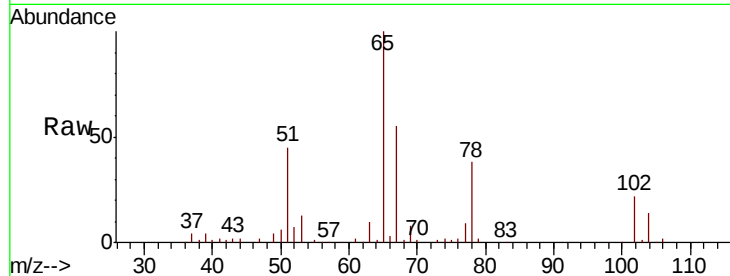
VSTDIC005

Tot Ion: 65 Resp: 114044

Ion Ratio Lower Upper

65 100

67 55.7 43.5 65.3



Abundance Ion 65.00 (64.70 to 65.70): VN055723.D (-1788) (-)

Ion 67.00 (66.70 to 67.70): VN055723.D (-1788) (-)

8.02

50000

40000

30000

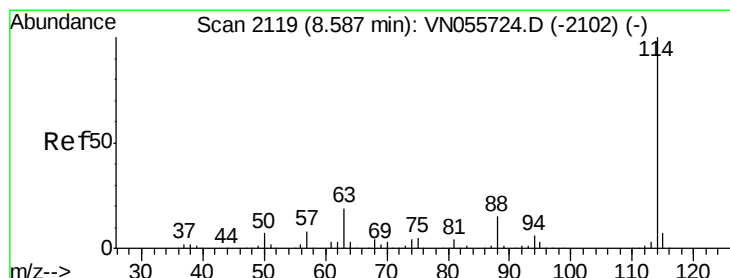
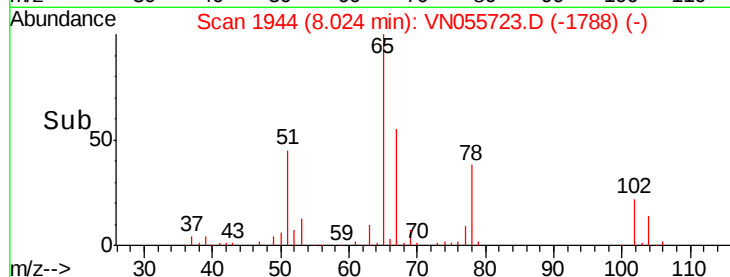
20000

10000

0

7.95 8.00 8.05 8.10

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

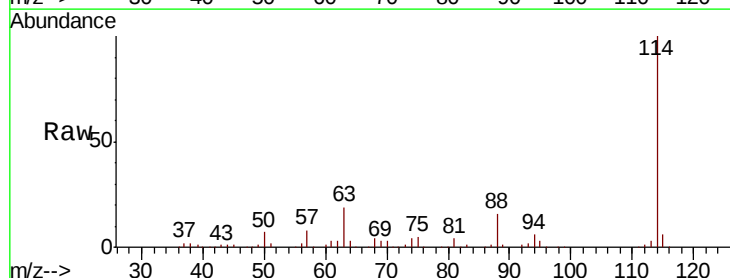
Tgt Ion: 114 Resp: 315145

Ion Ratio Lower Upper

114 100

63 19.2 15.6 23.4

88 15.6 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN055723.D (-1963) (-)

Ion 63.00 (62.70 to 63.70): VN055723.D (-1963) (-)

Ion 88.00 (87.70 to 88.70): VN055723.D (-1963) (-)

8.58

200000

150000

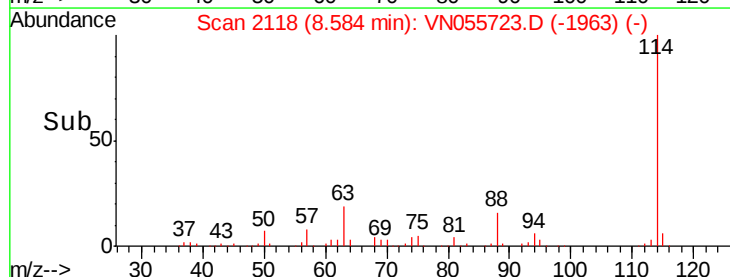
100000

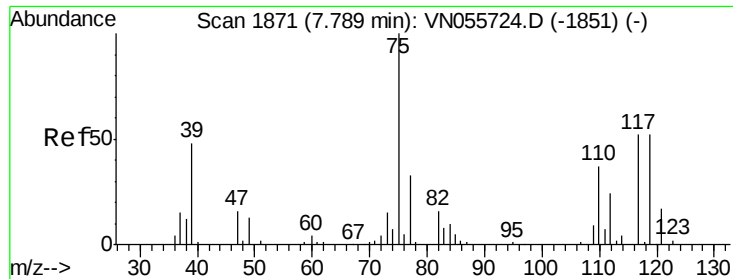
50000

0

8.50 8.60 8.70

Time-->

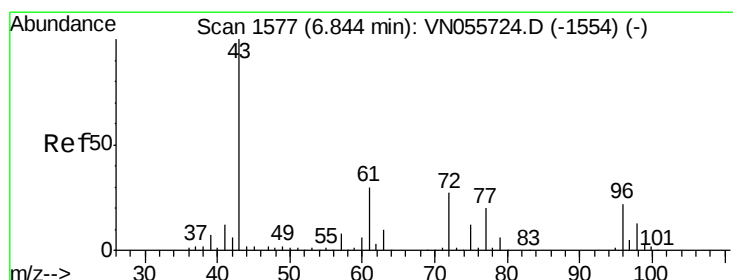
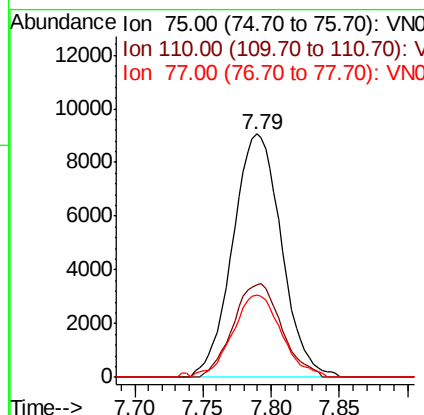
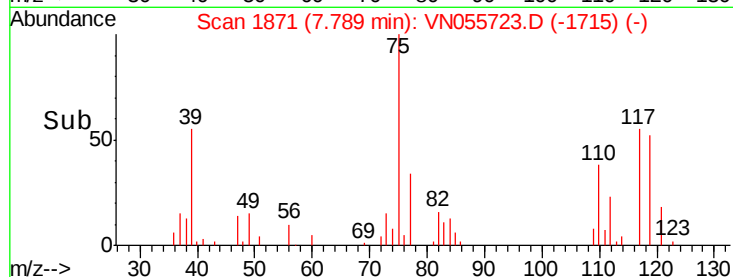
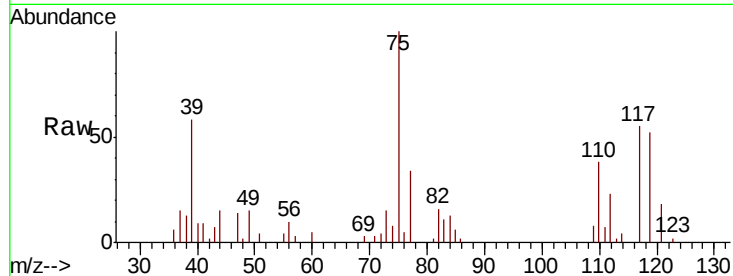




#29
 1,1-Dichloropropene
 Concen: 4.607 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

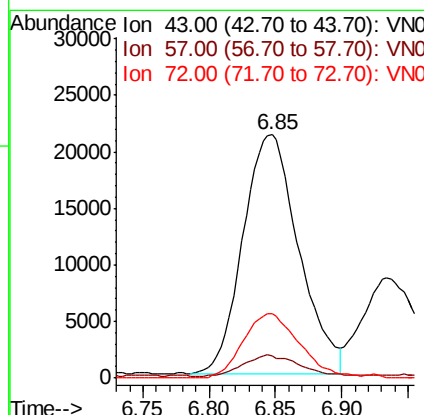
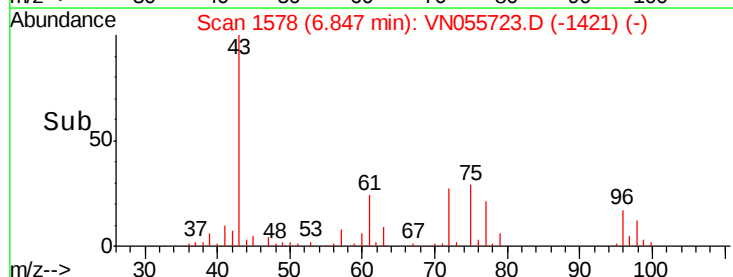
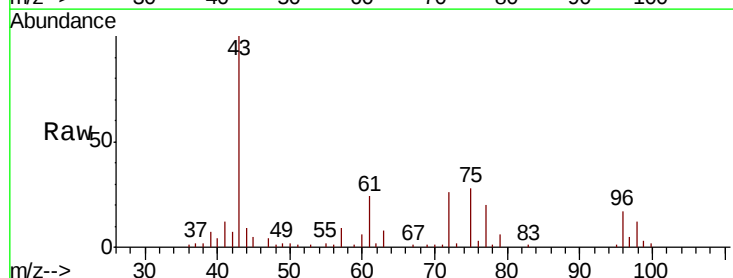
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

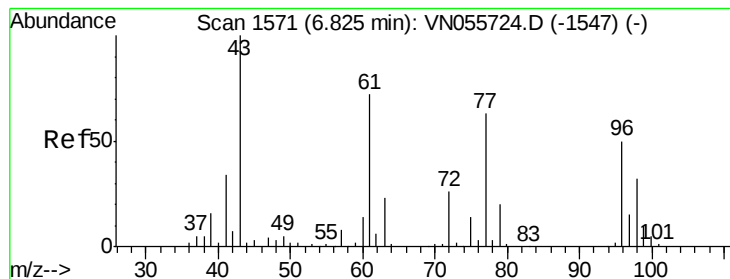
Tot Ion: 75 Resp: 22511
 Ion Ratio Lower Upper
 75 100
 110 38.1 0.0 74.8
 77 33.9 0.0 65.2



#30
 2-Butanone
 Concen: 29.653 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 61893
 Ion Ratio Lower Upper
 43 100
 57 9.0 6.6 10.0
 72 27.2 21.7 32.5





#31

2,2-Dichloropropane

Concen: 5.910 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

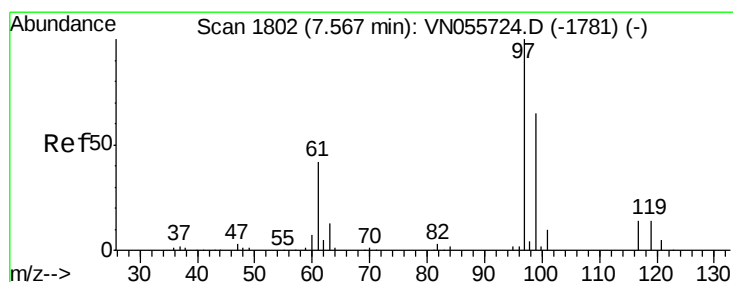
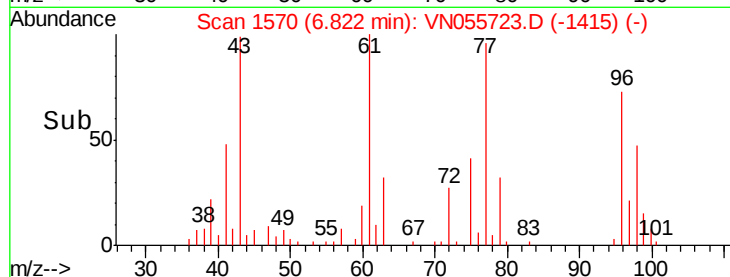
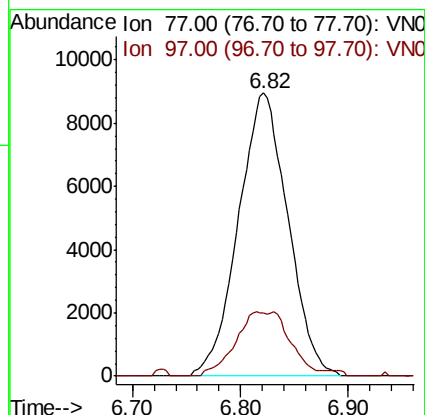
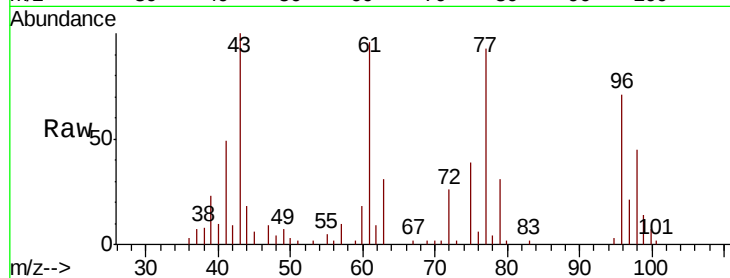
VSTDIC005

Tot Ion: 77 Resp: 28578

Ion Ratio Lower Upper

77 100

97 14.6 19.2 28.8#



#32

1,1,1-Trichloroethane

Concen: 5.117 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

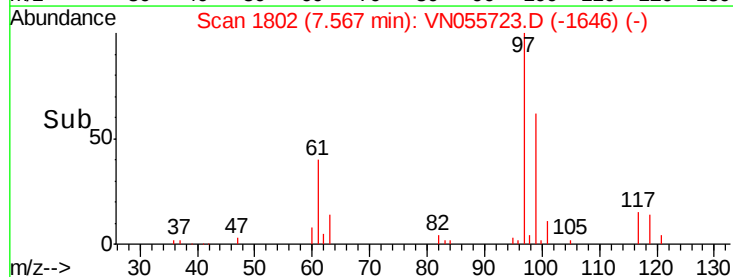
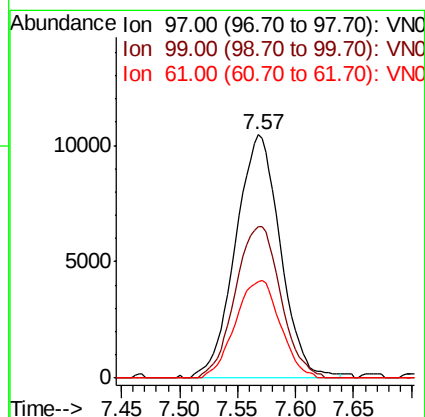
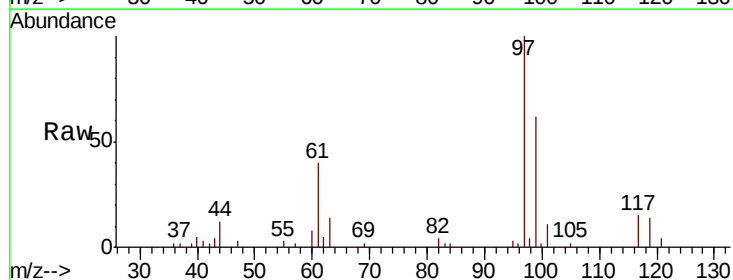
Tgt Ion: 97 Resp: 28121

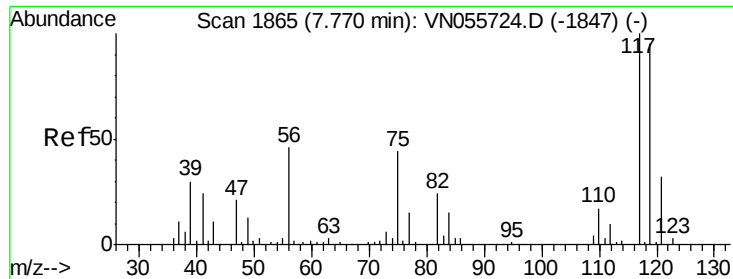
Ion Ratio Lower Upper

97 100

99 63.1 51.7 77.5

61 40.3 33.1 49.7

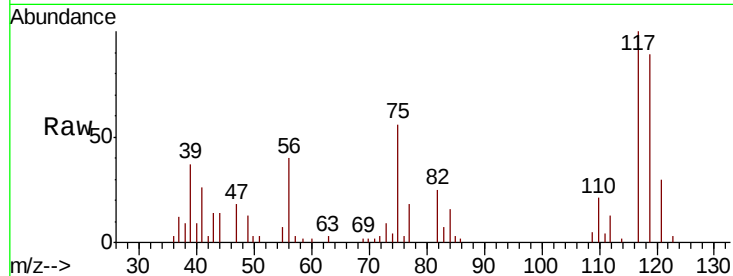




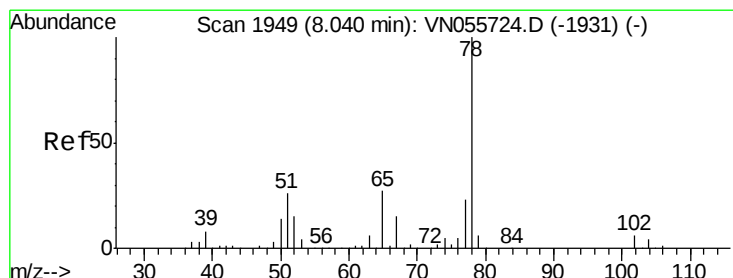
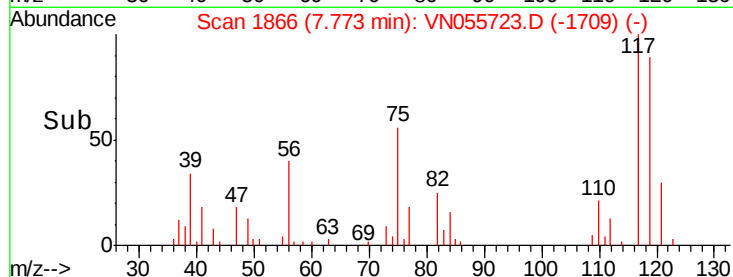
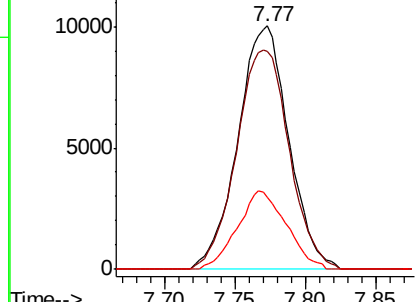
#33
Carbon Tetrachloride
Concen: 5.400 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:117 Resp: 25250
Ion Ratio Lower Upper
117 100
119 89.5 75.8 113.8
121 29.9 25.4 38.0

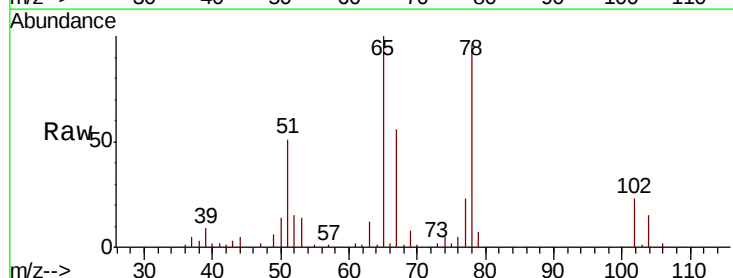


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

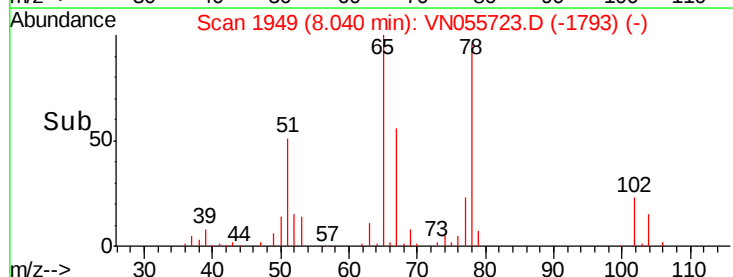
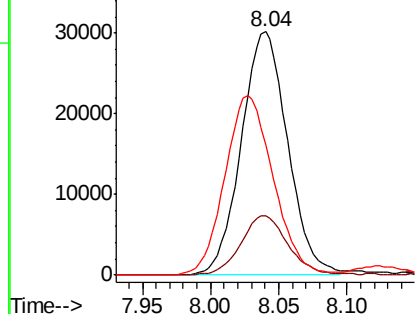


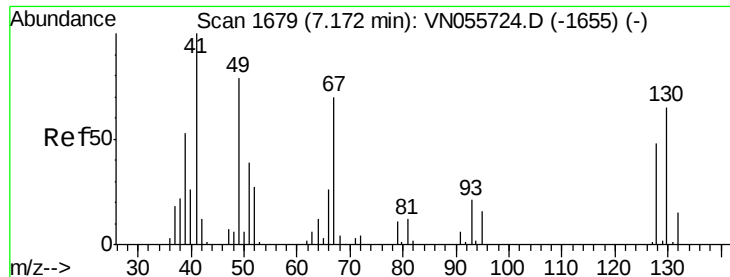
#34
Benzene
Concen: 4.851 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 78 Resp: 71267
Ion Ratio Lower Upper
78 100
77 24.2 18.8 28.2
51 52.1 20.6 31.0#



Abundance Ion 78.10 (77.80 to 78.80): V
Ion 77.00 (76.70 to 77.70): V
Ion 51.00 (50.70 to 51.70): V

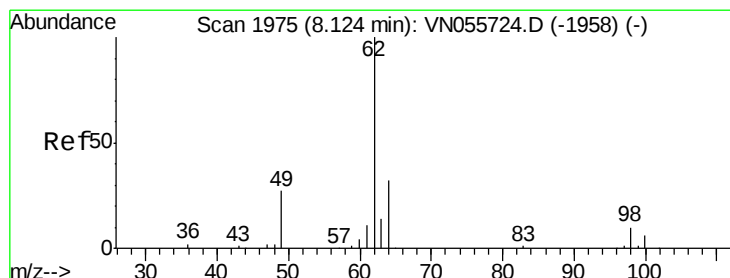
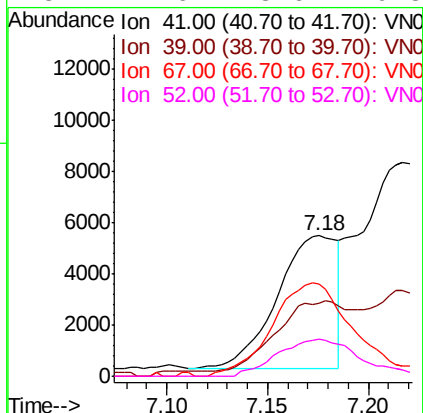
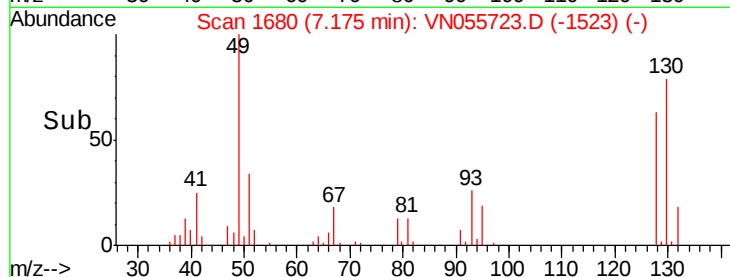
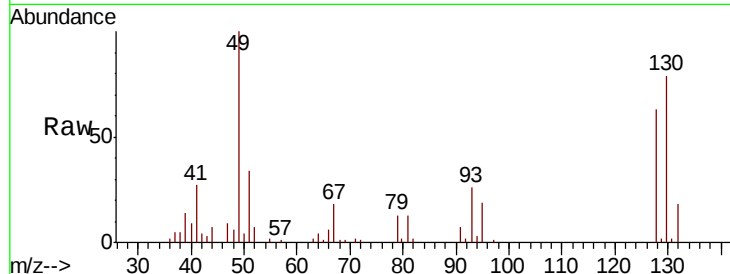




#35
Methacrylonitrile
Concen: 4.841 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

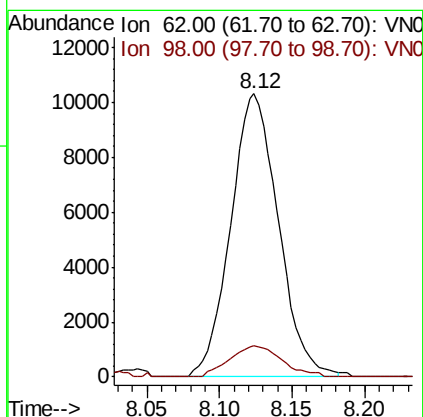
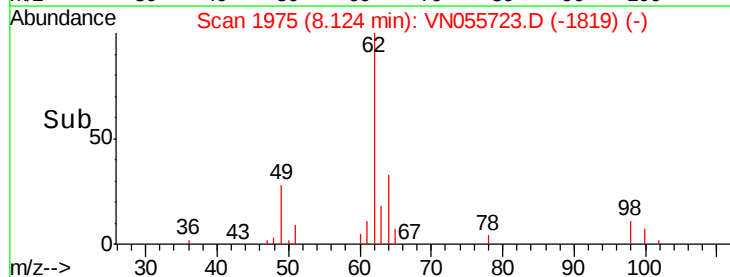
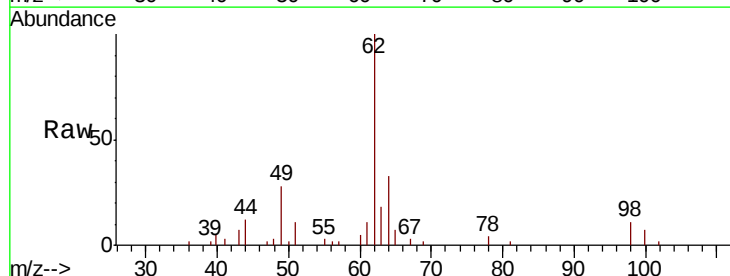
Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

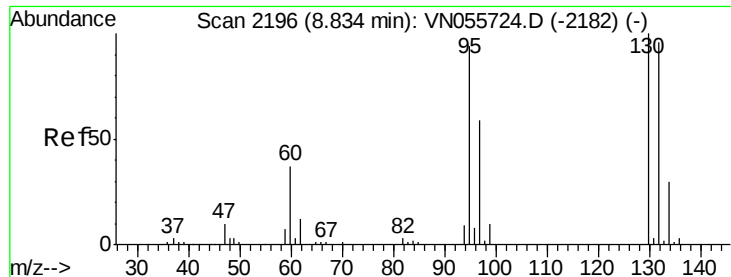
Tot Ion:	41	Resp:	10802
Ion	Ratio	Lower	Upper
41	100		
39	50.8	26.7	80.1
67	66.5	34.9	104.7
52	27.6	13.6	40.8



#36
1,2-Dichloroethane
Concen: 4.575 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion:	62	Resp:	23565
Ion	Ratio	Lower	Upper
62	100		
98	12.1	8.2	12.2





#37

Trichloroethene

Concen: 5.263 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

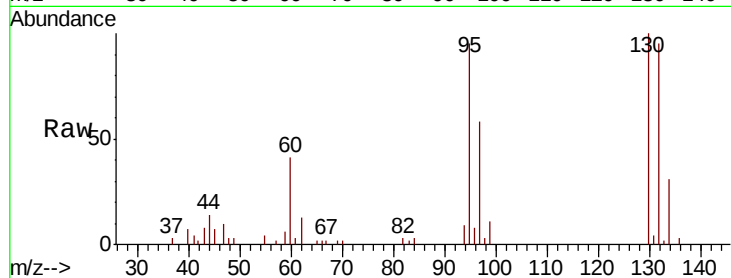
VSTDIC005

Tot Ion:130 Resp: 19913

Ion Ratio Lower Upper

130 100

95 93.7 75.6 113.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

10000

8000

6000

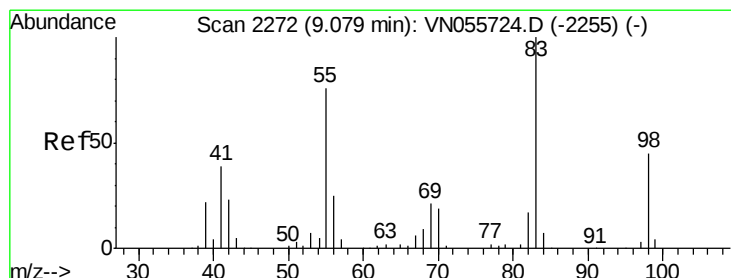
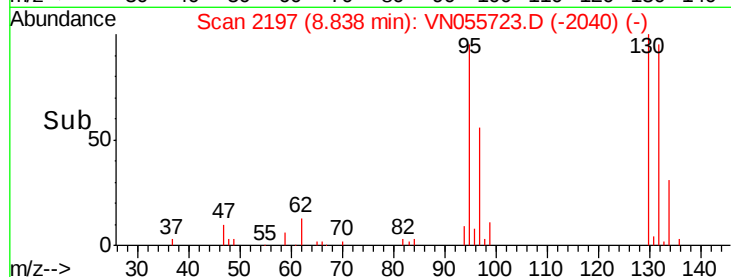
4000

2000

0

Time-->

8.75 8.80 8.85 8.90



#38

Methylcyclohexane

Concen: 5.590 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

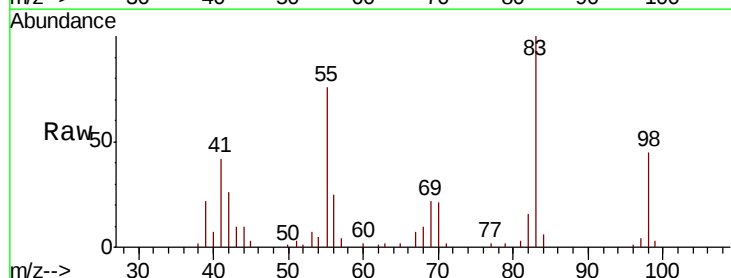
Tgt Ion: 83 Resp: 30176

Ion Ratio Lower Upper

83 100

55 72.1 37.8 113.4

98 46.2 22.6 67.8



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

15000

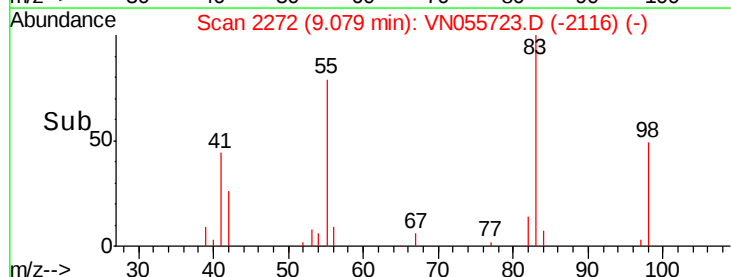
10000

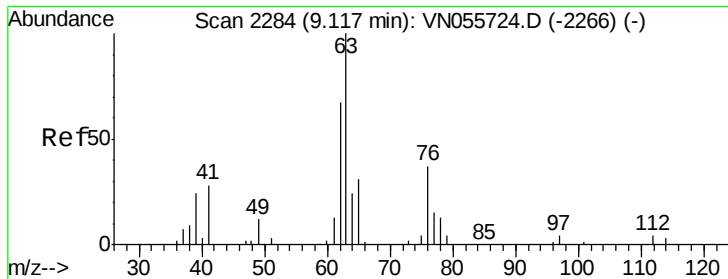
5000

0

Time-->

9.00 9.05 9.10 9.15

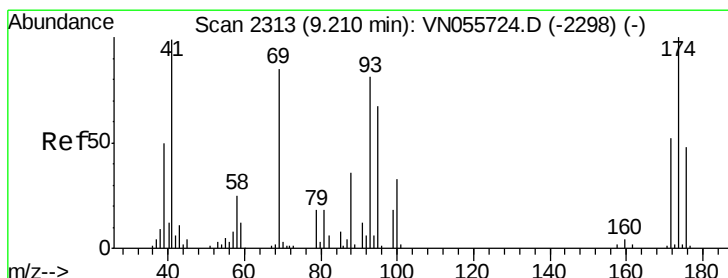
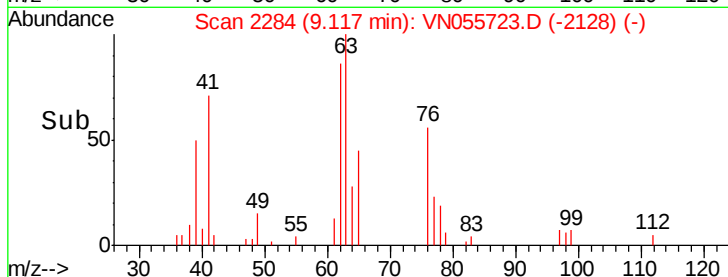
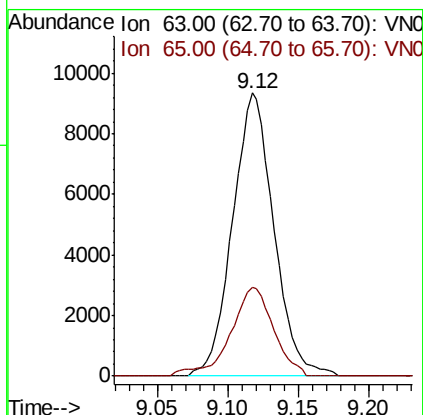
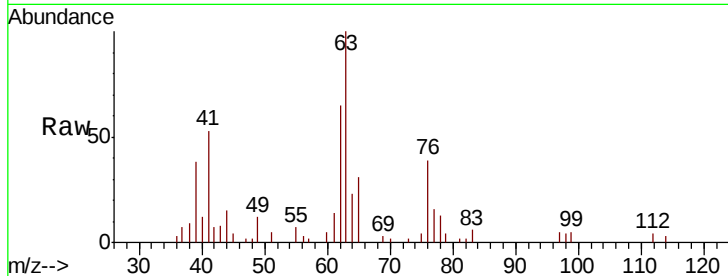




#39
 1,2-Dichloropropane
 Concen: 4.613 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

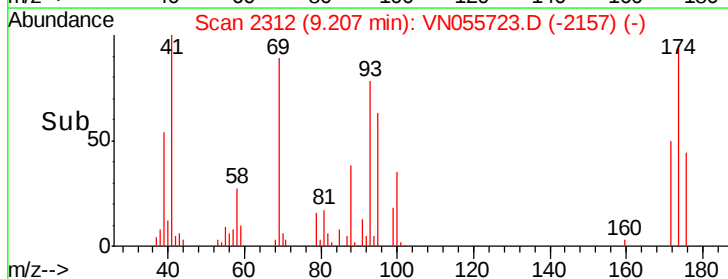
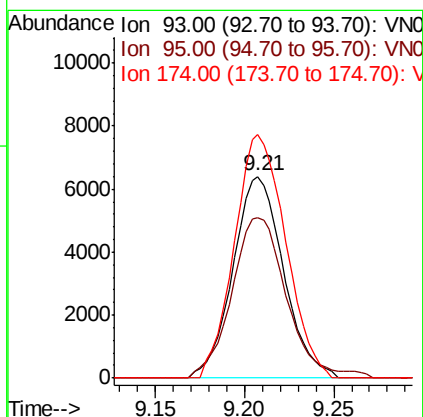
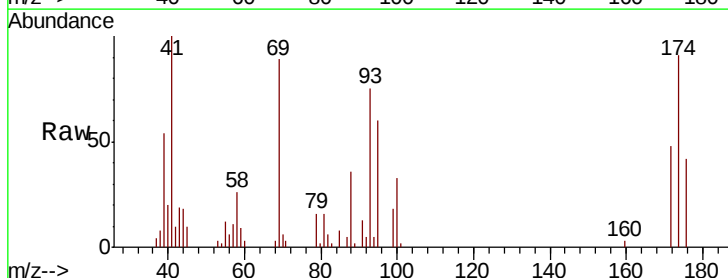
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

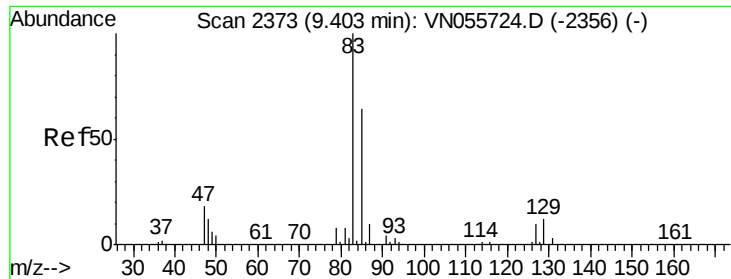
Tot Ion: 63 Resp: 19133
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.8 38.8



#40
 Dibromomethane
 Concen: 5.200 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 93 Resp: 12680
 Ion Ratio Lower Upper
 93 100
 95 85.0 0.0 170.6
 174 122.0 0.0 248.4





#41

Bromodichloromethane

Concen: 5.186 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

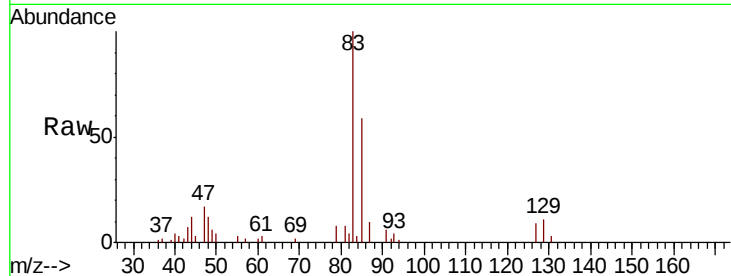
Tot Ion: 83 Resp: 26084

Ion Ratio Lower Upper

83 100

85 59.4 51.4 77.0

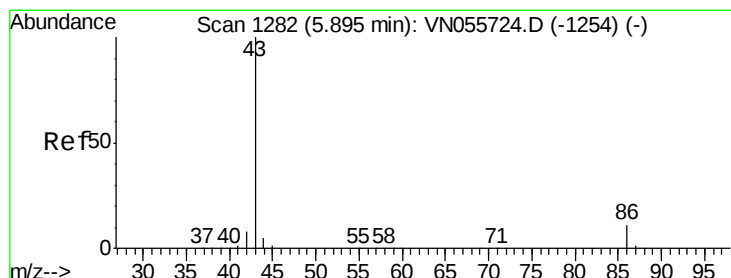
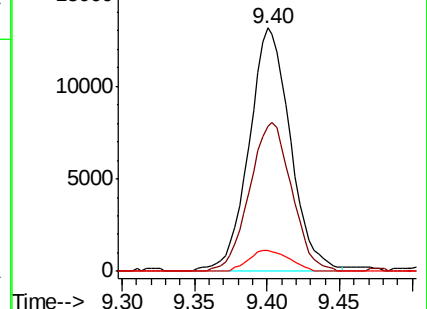
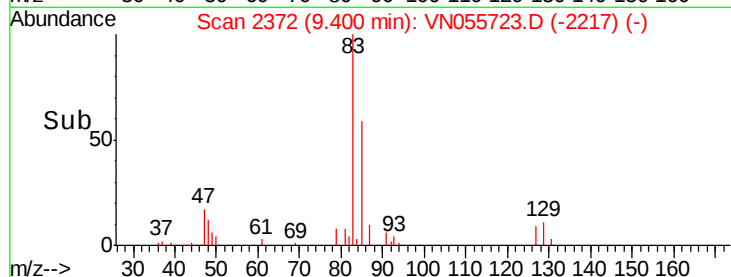
127 8.5 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VN055723.D (-2217) (-)

Ion 85.00 (84.70 to 85.70): VN055723.D (-2217) (-)

Ion 127.00 (126.70 to 127.70): VN055723.D (-2217) (-)



#42

Vinyl Acetate

Concen: 24.546 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055723.D

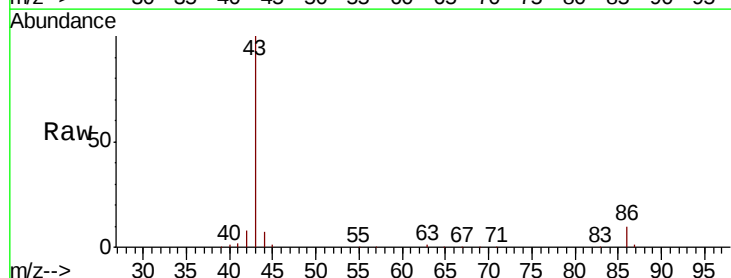
Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 236817

Ion Ratio Lower Upper

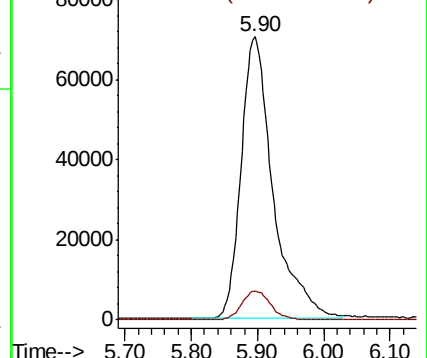
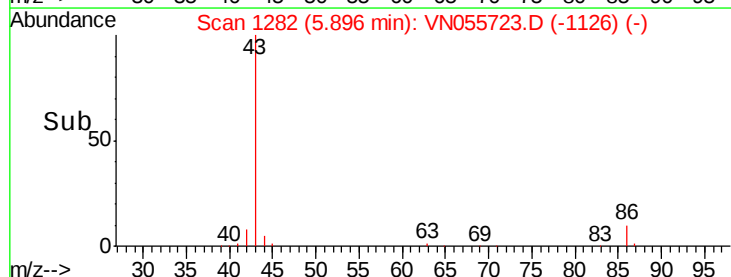
43 100

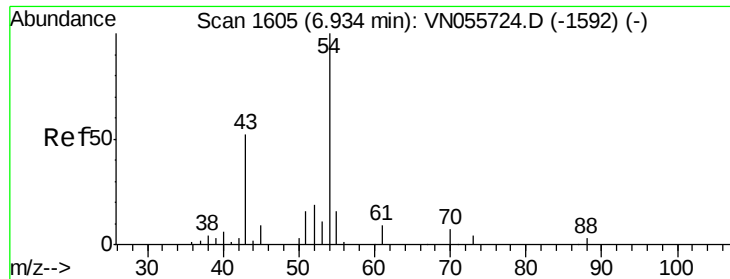
86 9.2 7.4 11.2



Abundance Ion 43.00 (42.70 to 43.70): VN055723.D (-1126) (-)

Ion 86.00 (85.70 to 86.70): VN055723.D (-1126) (-)





#43

Ethyl Acetate

Concen: 5.847 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

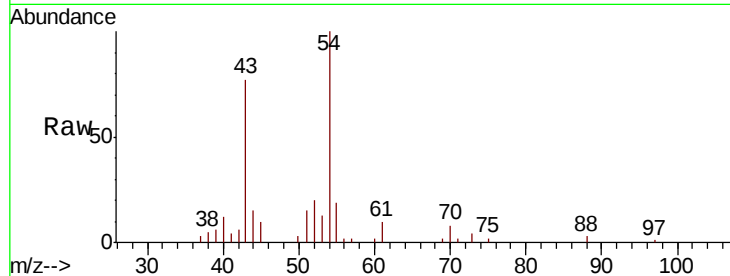
VSTDIC005

Tot Ion: 43 Resp: 25173

Ion Ratio Lower Upper

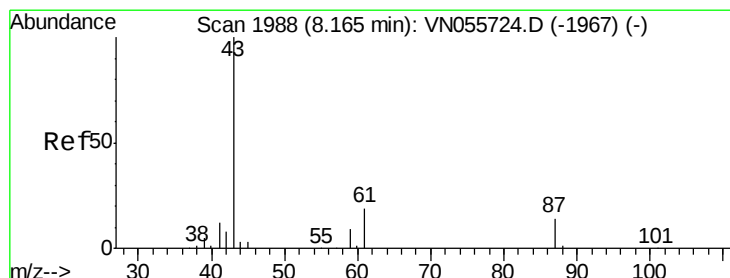
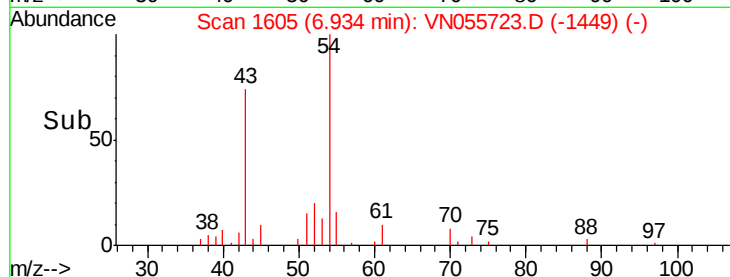
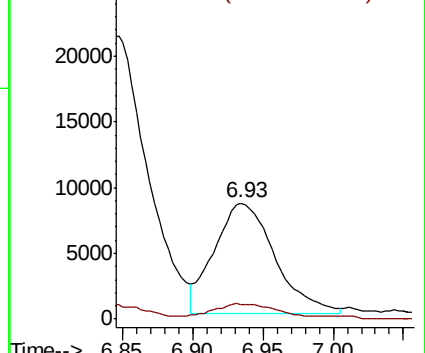
43 100

45 5.4 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 5.120 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN055723.D

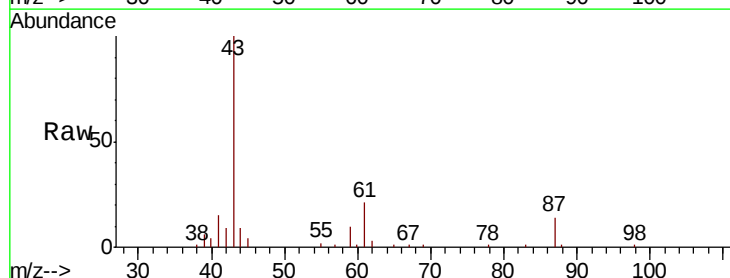
Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 39250

Ion Ratio Lower Upper

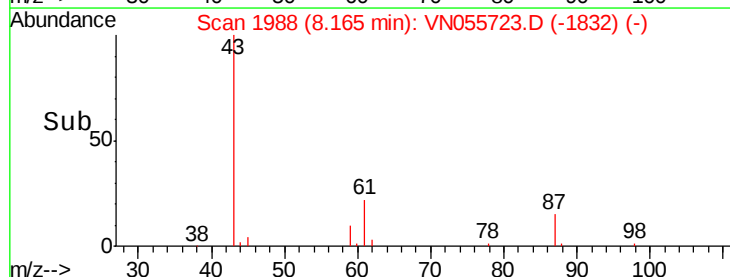
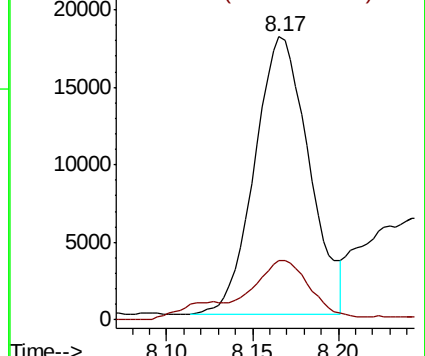
43 100

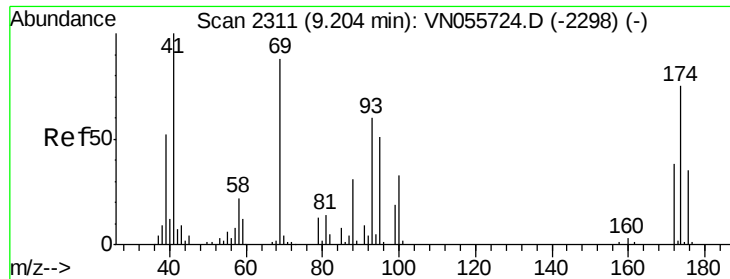
61 20.7 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#45

1,4-Dioxane

Concen: 167.070 ug/l

RT: 9.20 min Scan# 2311

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

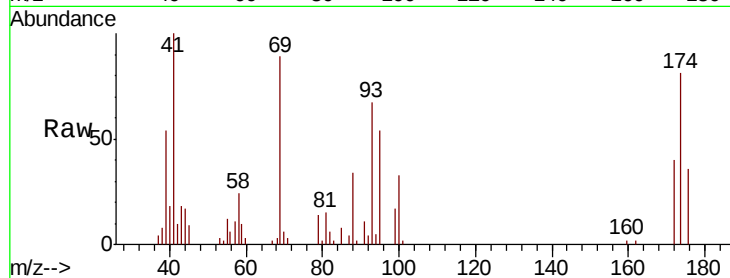
Tot Ion: 88 Resp: 7672

Ion Ratio Lower Upper

88 100

43 30.1 20.5 30.7

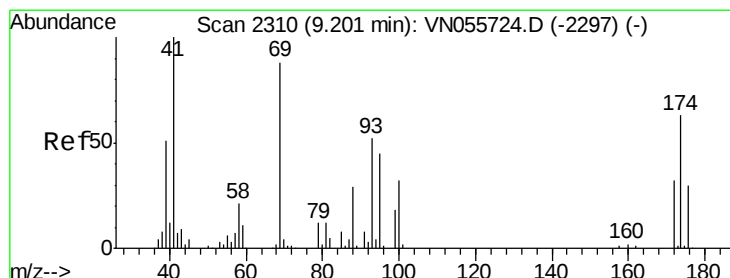
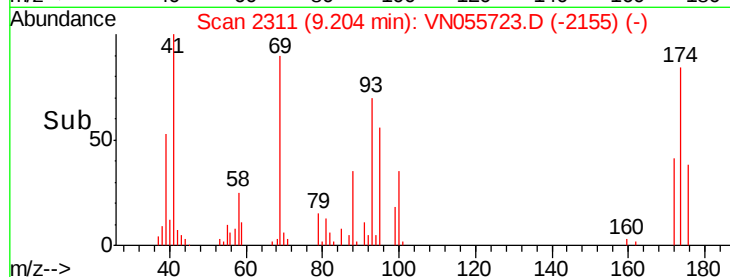
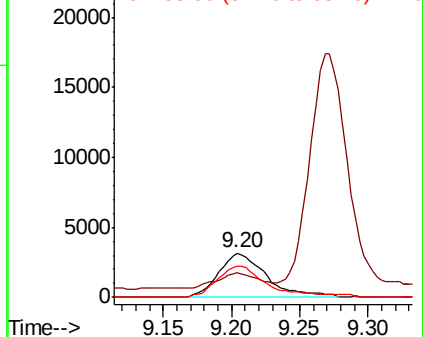
58 72.8 56.1 84.1



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#46

Methyl methacrylate

Concen: 4.848 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

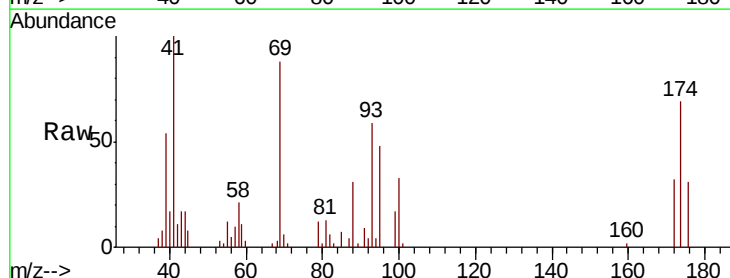
Tgt Ion: 41 Resp: 17542

Ion Ratio Lower Upper

41 100

69 90.8 43.8 131.4

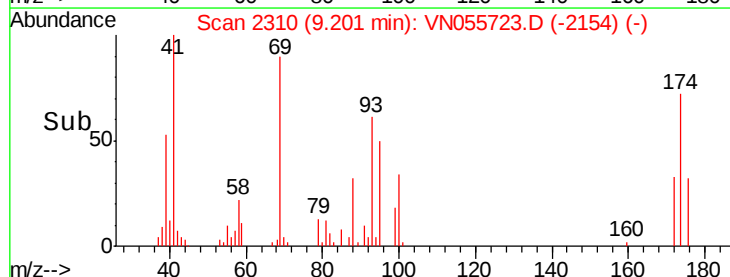
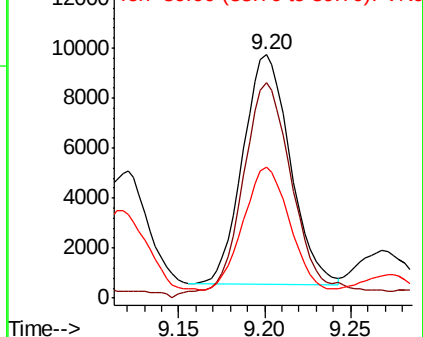
39 52.9 25.6 76.6

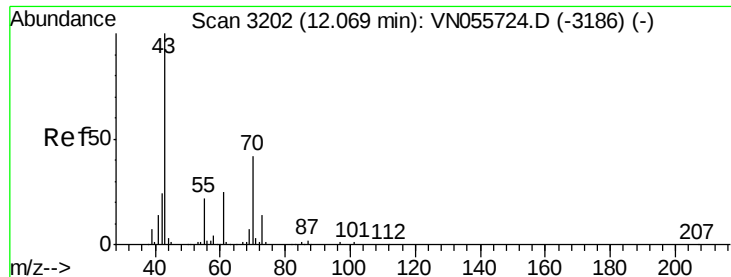


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 5.449 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

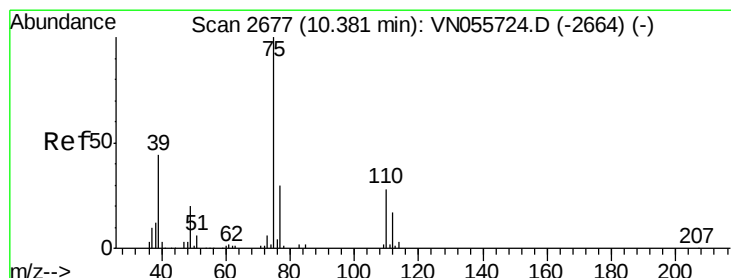
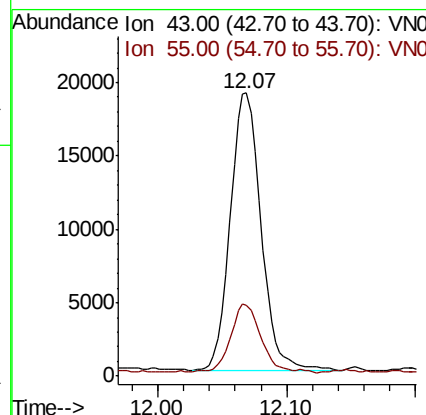
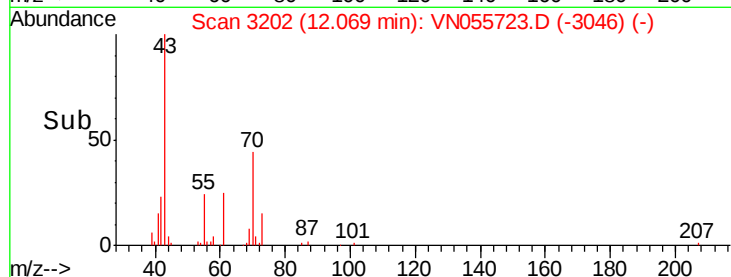
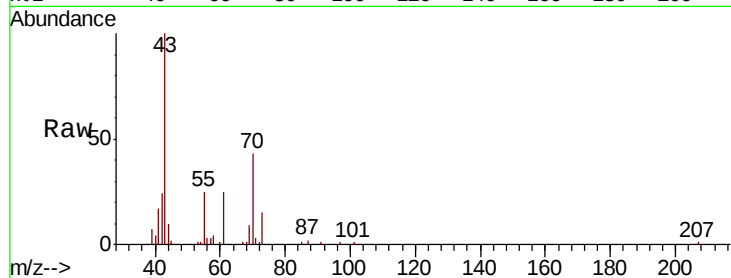
VSTDIC005

Tot Ion: 43 Resp: 31268

Ion Ratio Lower Upper

43 100

55 22.9 17.8 26.6



#48

t-1,3-Dichloropropene

Concen: 5.148 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN055723.D

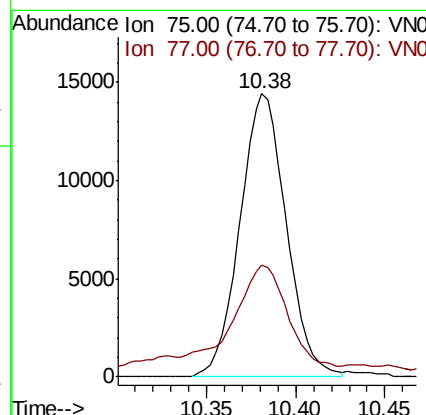
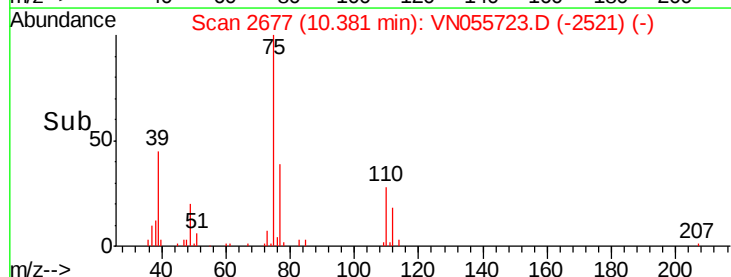
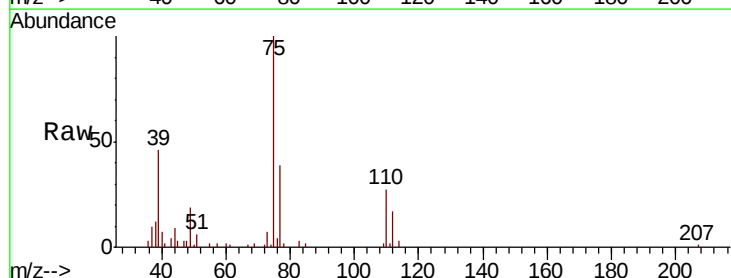
Acq: 22 May 2019 16:57

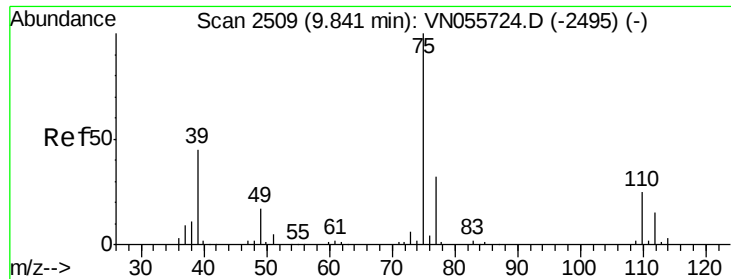
Tgt Ion: 75 Resp: 26158

Ion Ratio Lower Upper

75 100

77 35.7 25.2 37.8

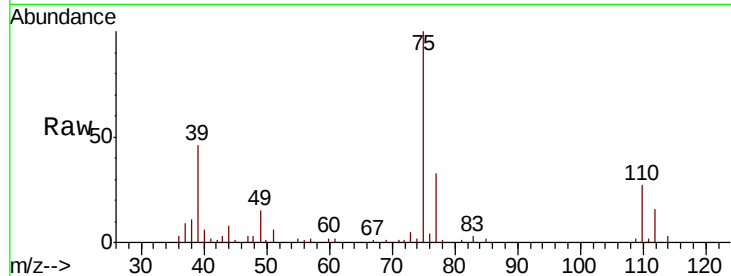




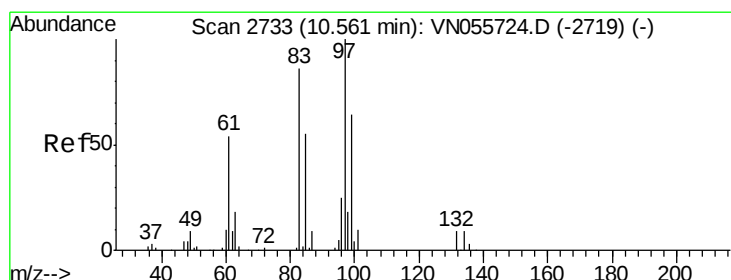
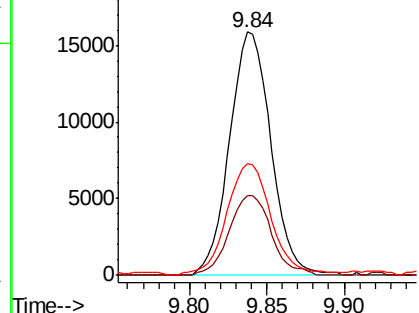
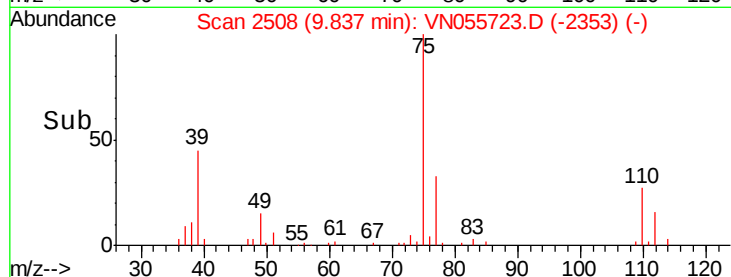
#49
 cis-1,3-Dichloropropene
 Concen: 5.062 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 29433
 Ion Ratio Lower Upper
 75 100
 77 32.6 26.0 39.0
 39 44.6 36.2 54.4

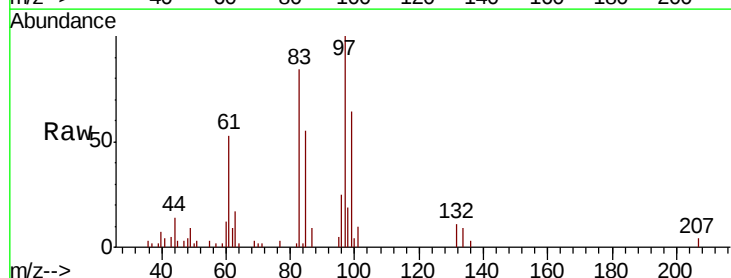


Abundance Ion 75.00 (74.70 to 75.70): VNO
 Ion 77.00 (76.70 to 77.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

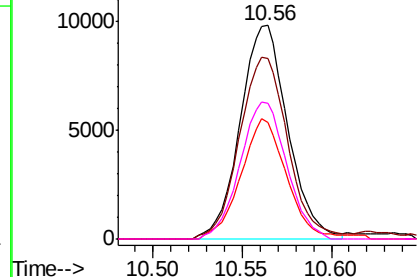
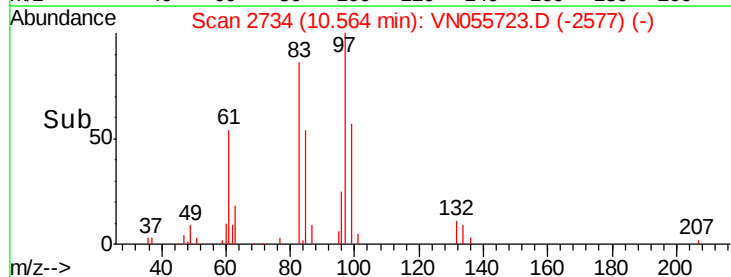


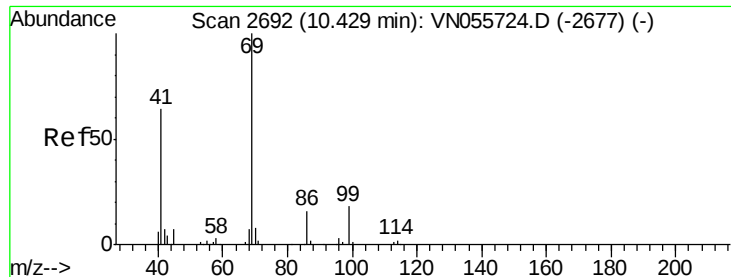
#50
 1,1,2-Trichloroethane
 Concen: 5.405 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion: 97 Resp: 18294
 Ion Ratio Lower Upper
 97 100
 83 84.4 68.9 103.3
 85 54.7 44.3 66.5
 99 63.8 51.4 77.0



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





#51

Ethyl methacrylate

Concen: 5.765 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

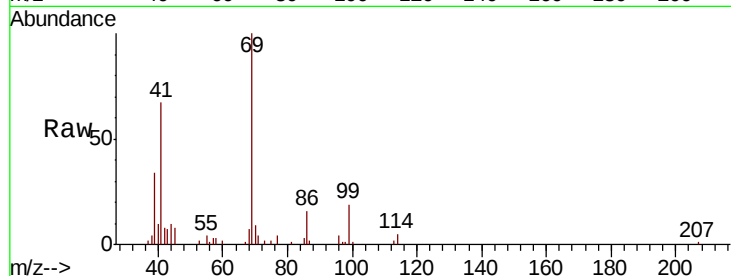
Tot Ion: 69 Resp: 27926

Ion Ratio Lower Upper

69 100

41 65.8 31.9 95.7

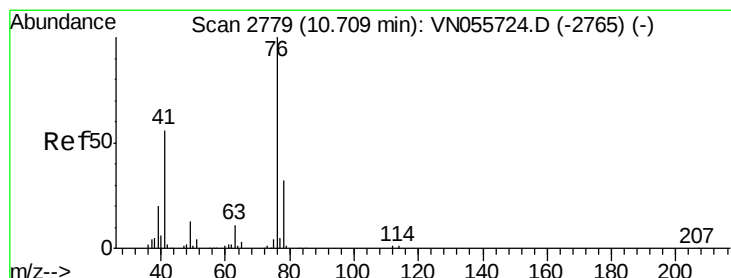
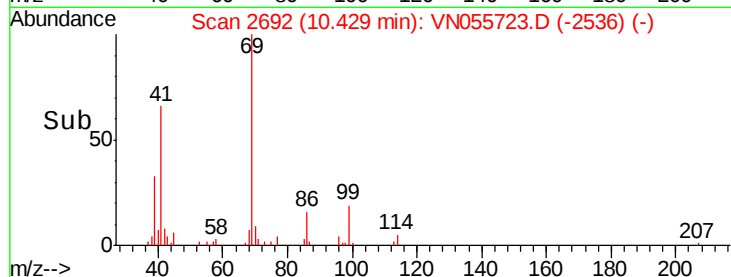
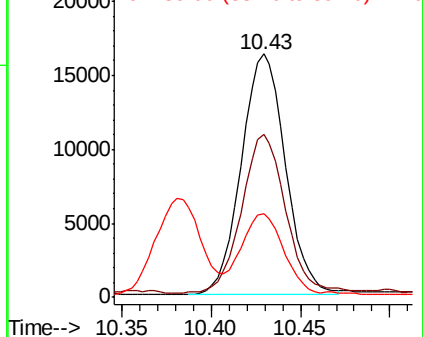
39 32.8 15.7 47.0



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



#52

1,3-Dichloropropane

Concen: 4.906 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. -0.00 min

Lab File: VN055723.D

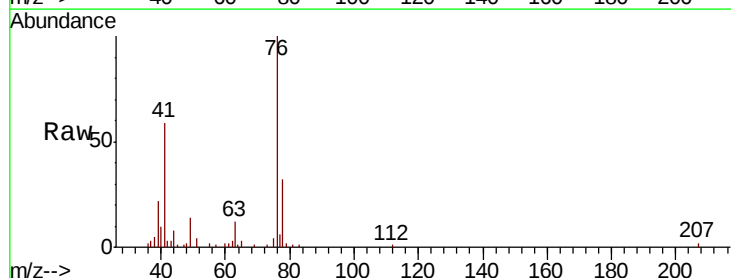
Acq: 22 May 2019 16:57

Tgt Ion: 76 Resp: 29148

Ion Ratio Lower Upper

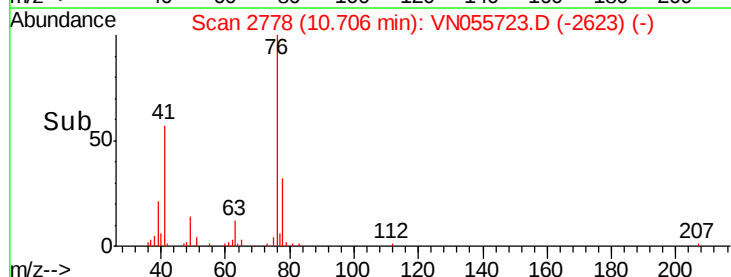
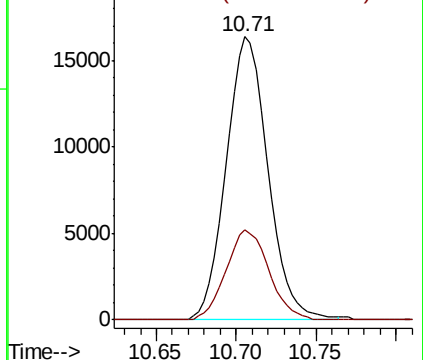
76 100

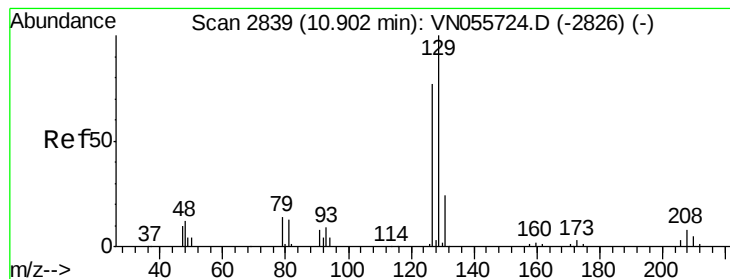
78 32.6 0.0 65.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#53

Dibromochloromethane

Concen: 5.751 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

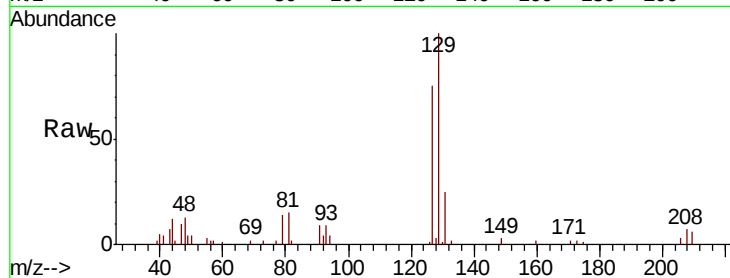
VSTDIC005

Tot Ion:129 Resp: 20820

Ion Ratio Lower Upper

129 100

127 75.6 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

12000

10000

8000

6000

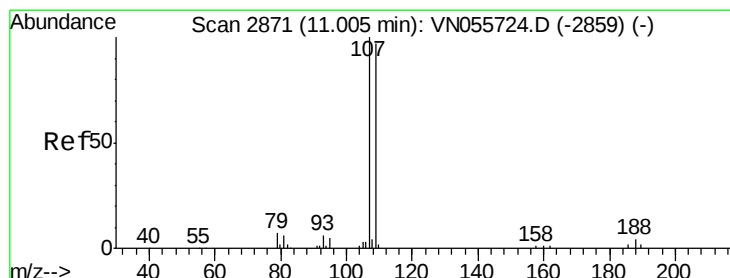
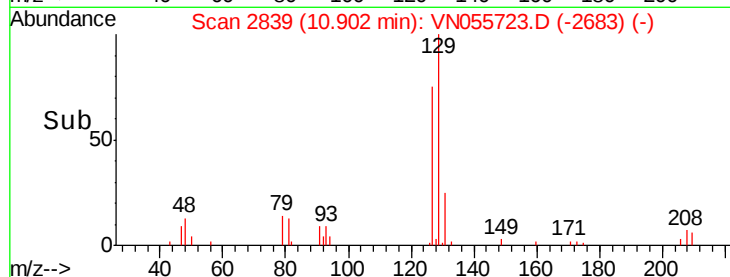
4000

2000

0

10.85 10.90 10.95

Time-->



#54

1,2-Dibromoethane

Concen: 5.442 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055723.D

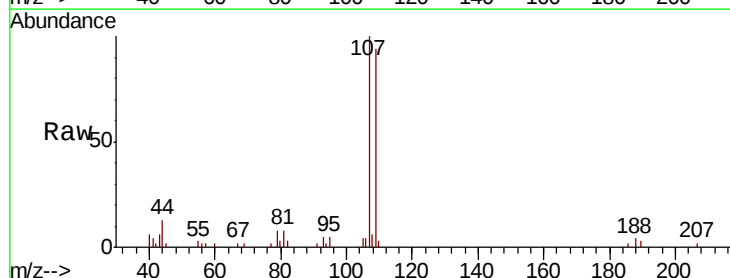
Acq: 22 May 2019 16:57

Tgt Ion:107 Resp: 18234

Ion Ratio Lower Upper

107 100

109 94.0 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10000

8000

6000

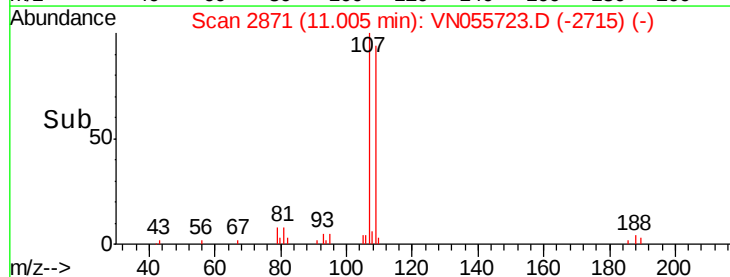
4000

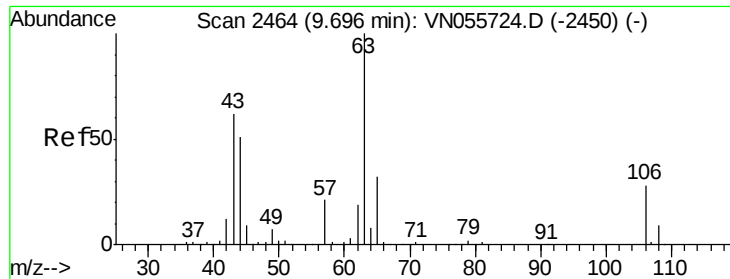
2000

0

10.95 11.00 11.05

Time-->

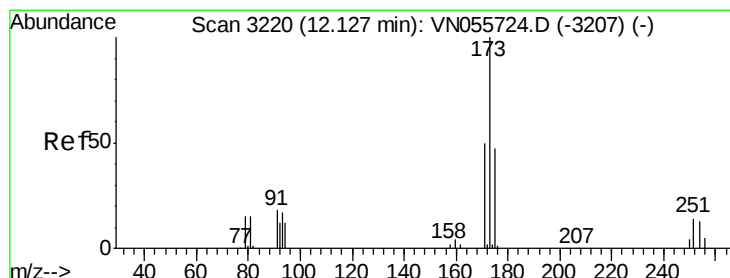
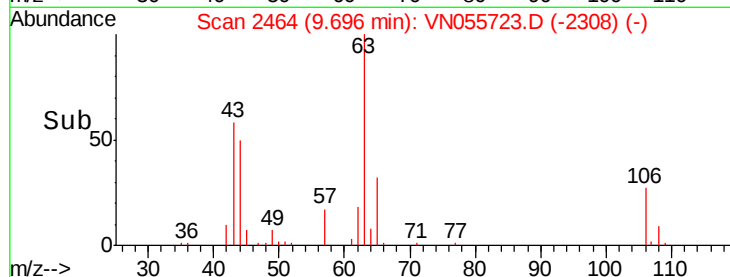
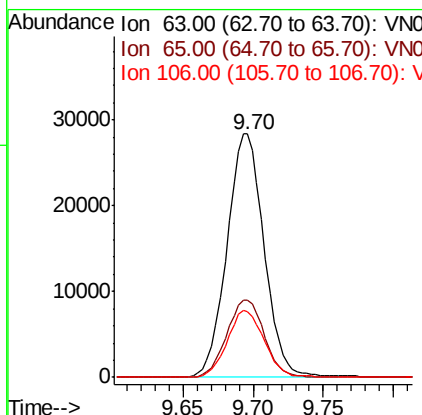
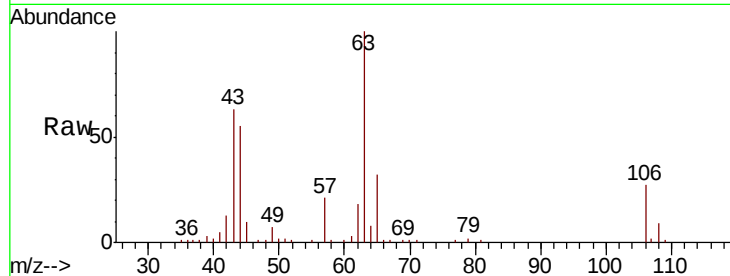




#55
2-Chloroethyl vinyl ether
Concen: 33.603 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

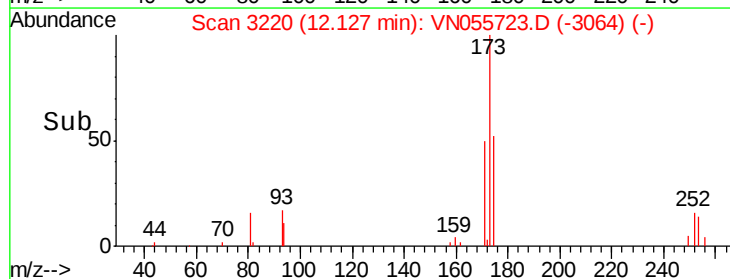
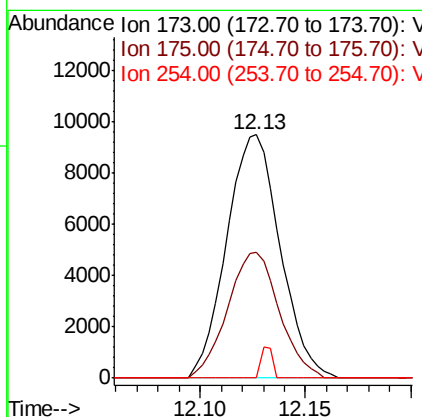
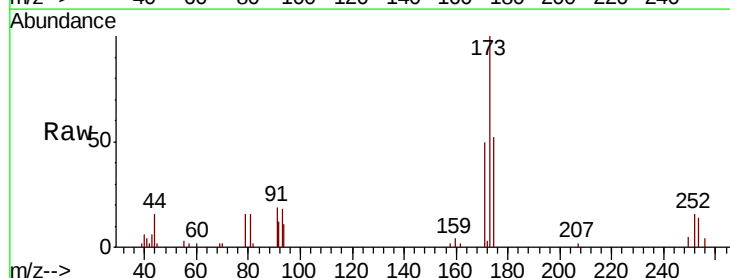
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

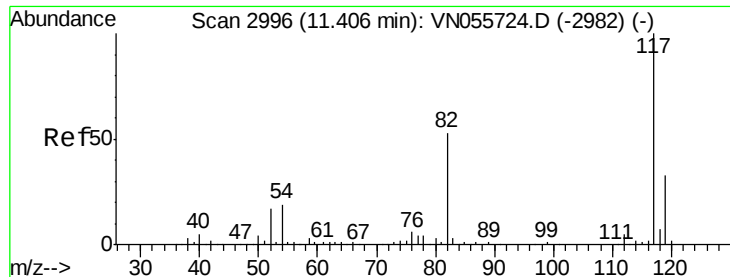
Tot Ion: 63 Resp: 52208
Ion Ratio Lower Upper
63 100
65 32.0 25.4 38.0
106 27.1 22.1 33.1



#56
Bromoform
Concen: 6.655 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 173 Resp: 16728
Ion Ratio Lower Upper
173 100
175 50.0 38.5 57.7
254 2.8 9.4 14.0#

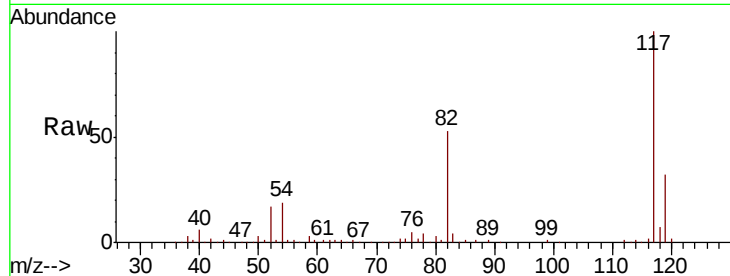




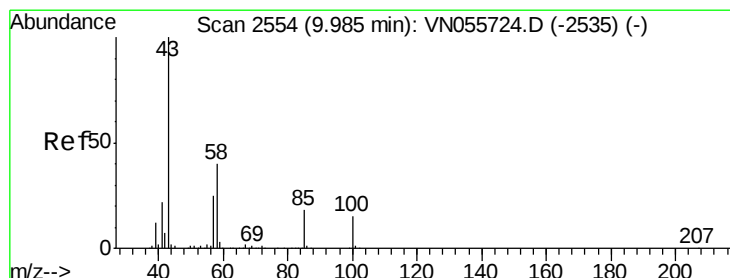
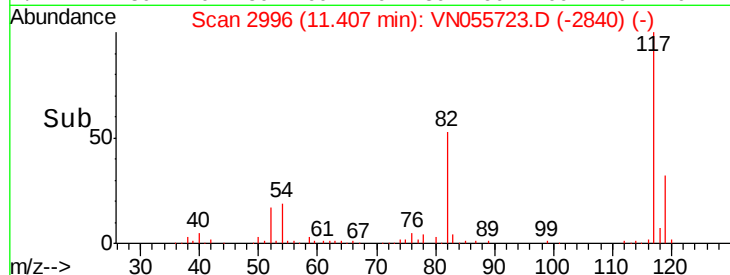
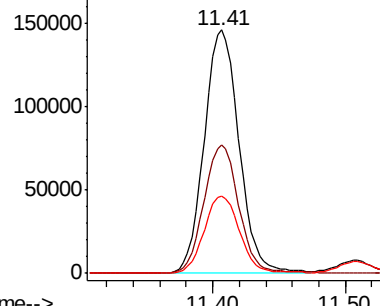
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:117 Resp: 266511
Ion Ratio Lower Upper
117 100
82 52.9 42.6 64.0
119 32.3 25.9 38.9

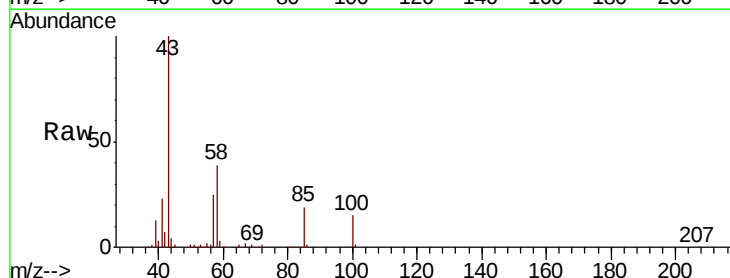


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

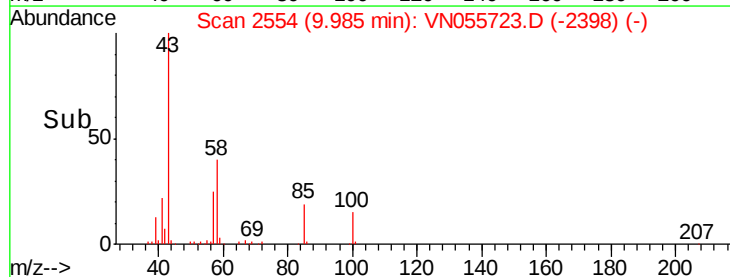
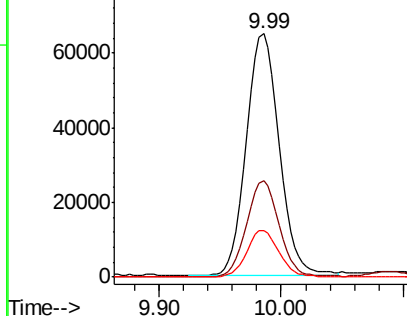


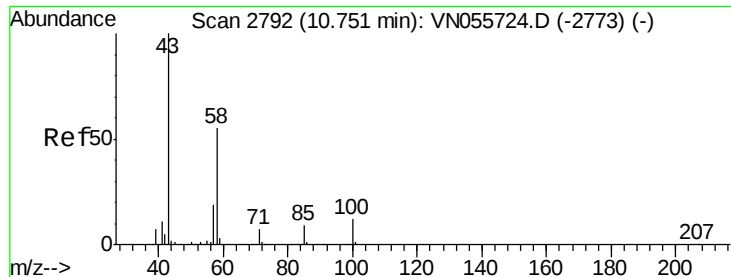
#58
4-Methyl-2-Pentanone
Concen: 28.449 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 43 Resp: 120302
Ion Ratio Lower Upper
43 100
58 39.5 31.7 47.5
85 18.9 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 58.00 (57.70 to 58.70): V
Ion 85.00 (84.70 to 85.70): V

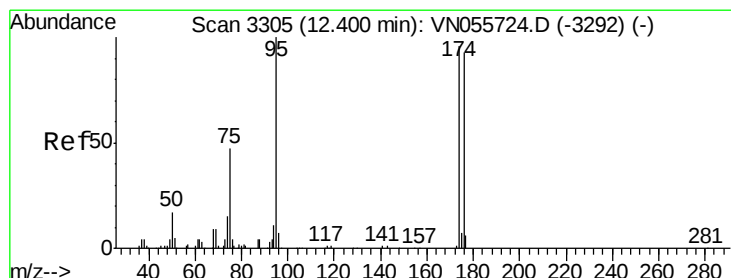
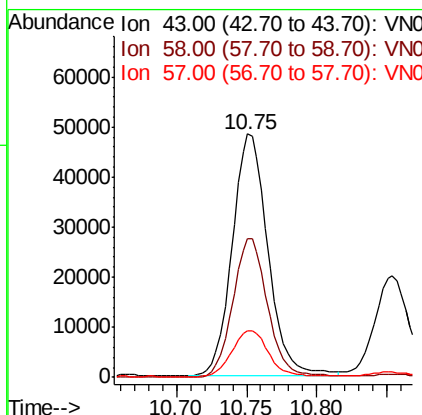
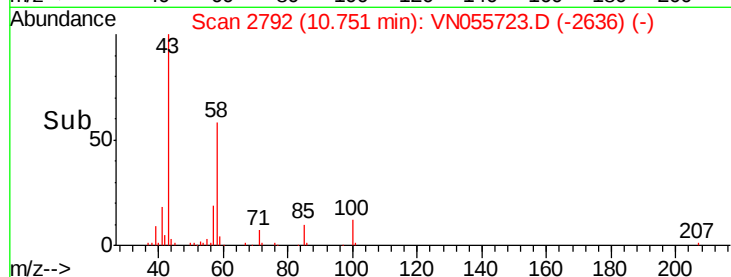
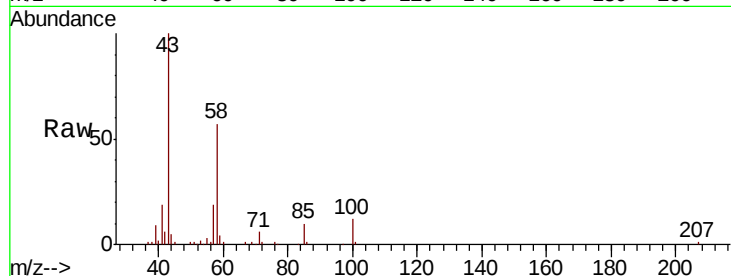




#59
2-Hexanone
Concen: 30.693 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

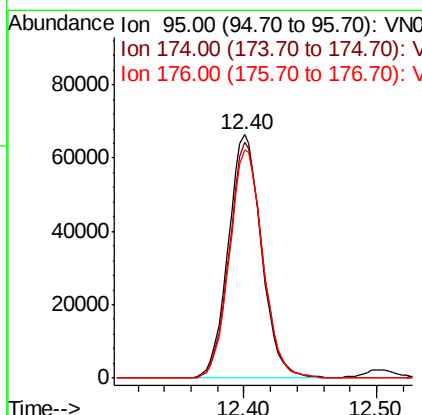
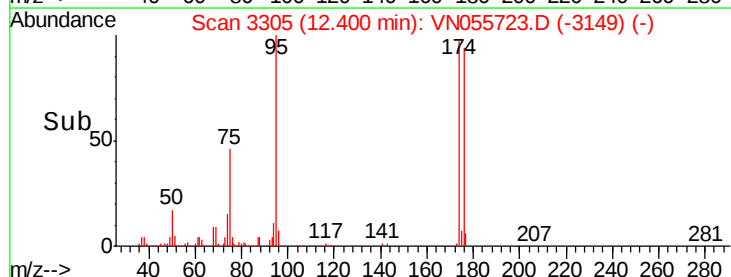
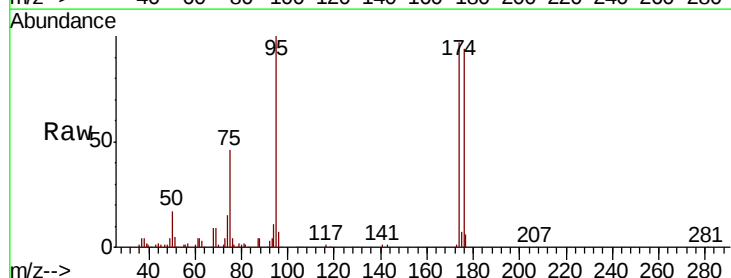
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

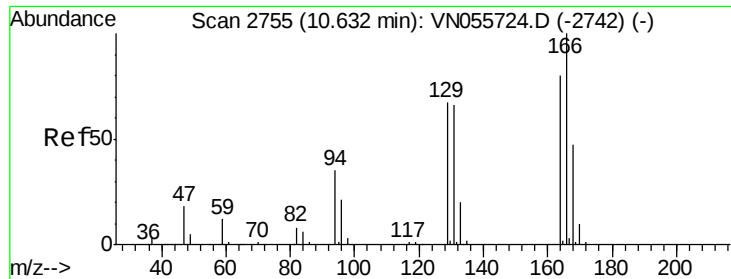
Tot Ion	Ratio	Lower	Upper
43	100		
58	56.7	44.8	67.2
57	19.5	15.3	22.9



#60
4-Bromofluorobenzene
Concen: 28.066 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.8	75.7	113.5
176	93.9	74.1	111.1





#61

Tetrachloroethene

Concen: 5.553 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:164 Resp: 19304

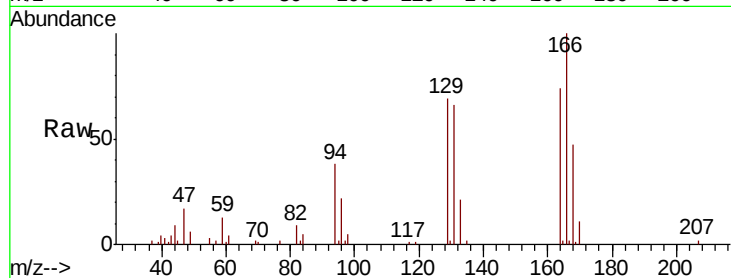
Ion Ratio Lower Upper

164 100

166 133.2 100.6 150.8

129 92.4 67.4 101.2

131 87.6 66.6 99.8

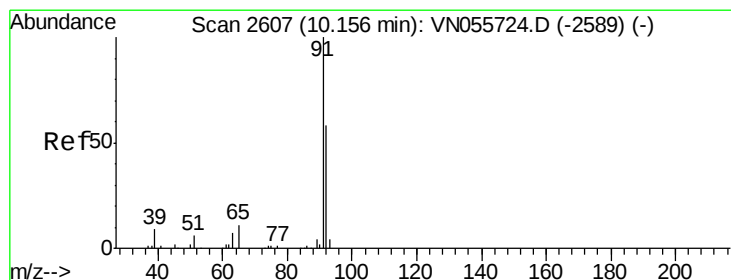
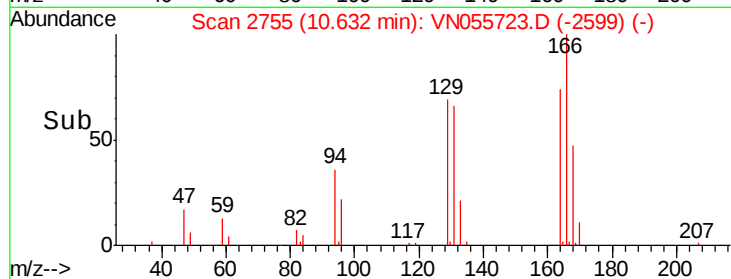
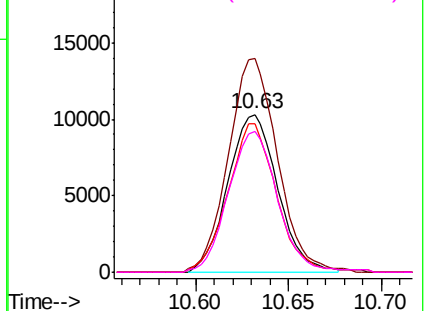


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 5.038 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055723.D

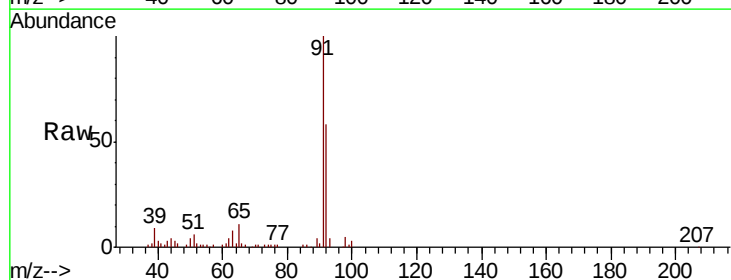
Acq: 22 May 2019 16:57

Tgt Ion: 91 Resp: 75389

Ion Ratio Lower Upper

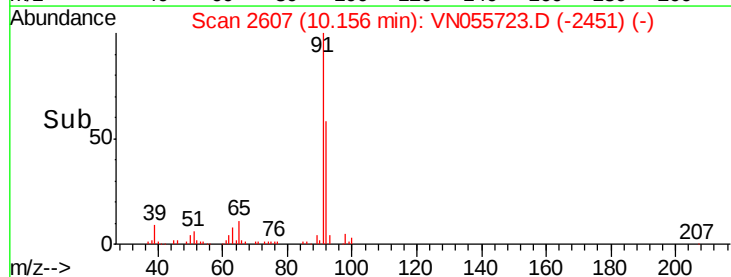
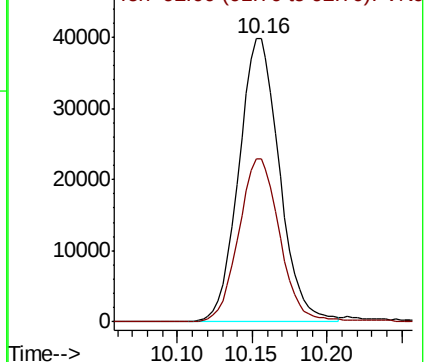
91 100

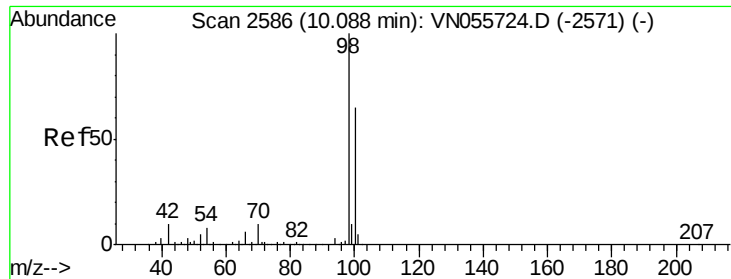
92 57.9 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 29.931 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

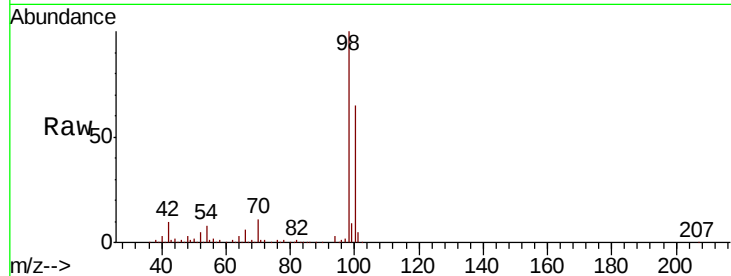
VSTDIC005

Tot Ion: 98 Resp: 376556

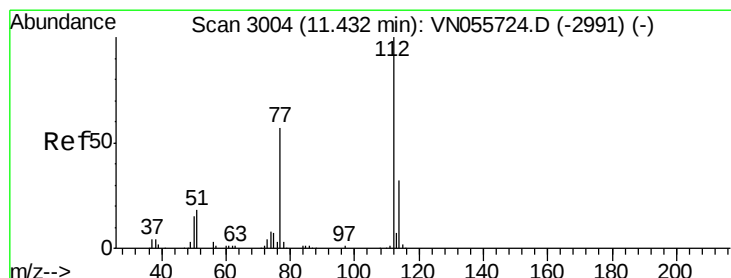
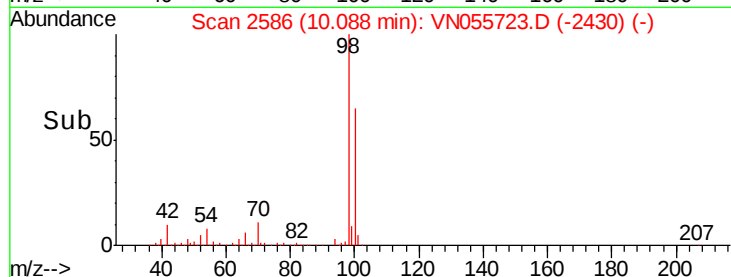
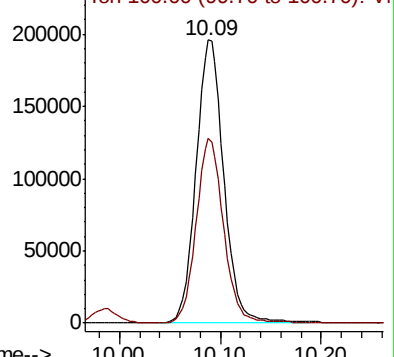
Ion Ratio Lower Upper

98 100

100 64.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN055723.D (-2430) (-)



#64

Chlorobenzene

Concen: 5.022 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055723.D

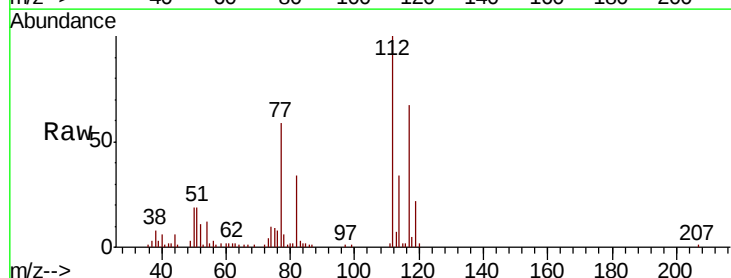
Acq: 22 May 2019 16:57

Tgt Ion: 112 Resp: 44746

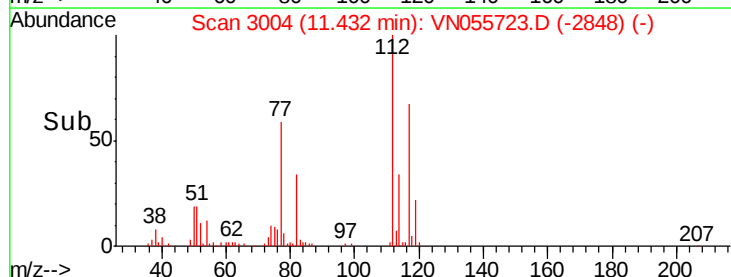
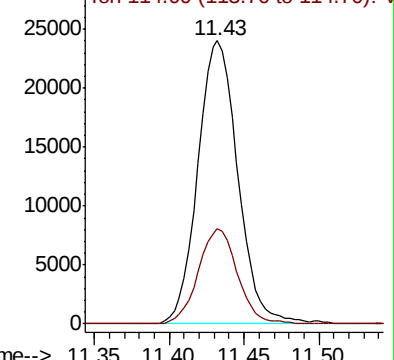
Ion Ratio Lower Upper

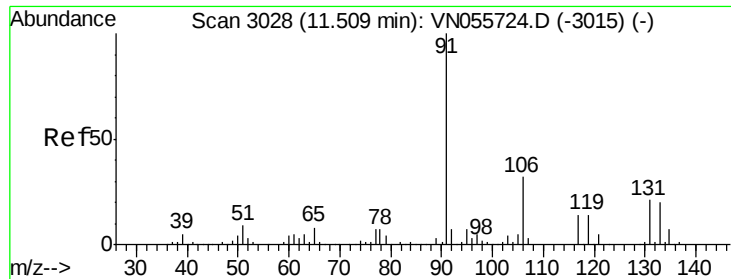
112 100

114 33.6 25.4 38.0



Abundance Ion 112.00 (111.70 to 112.70): VN055723.D (-2848) (-)





#65

1,1,1,2-Tetrachloroethane

Concen: 5.592 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

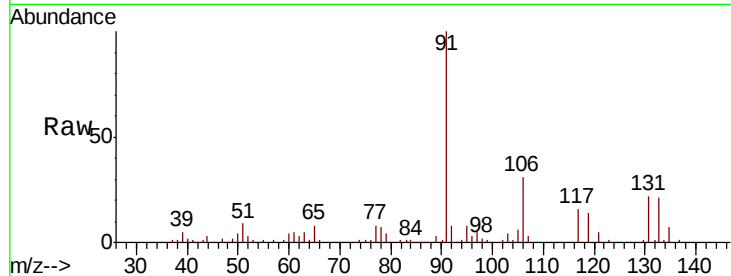
Tot Ion:131 Resp: 18945

Ion Ratio Lower Upper

131 100

133 94.5 0.0 188.8

119 67.7 0.0 133.6

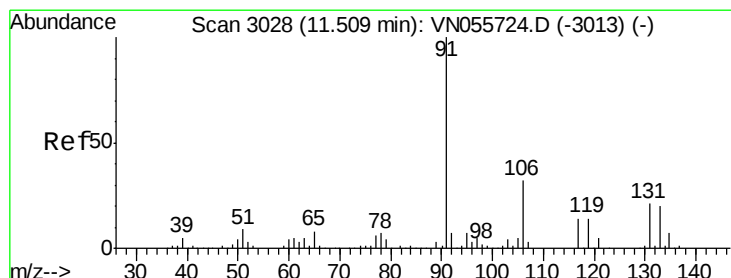
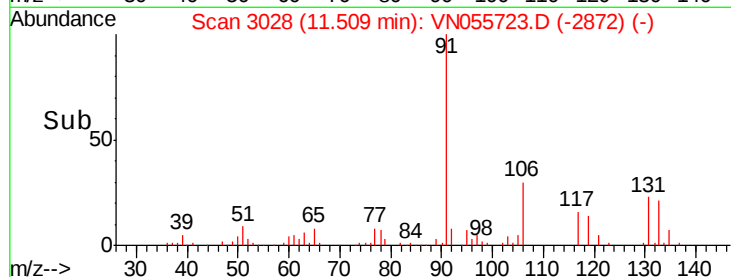
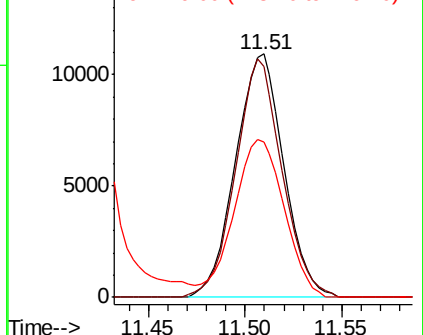


Abundance

Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 5.102 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN055723.D

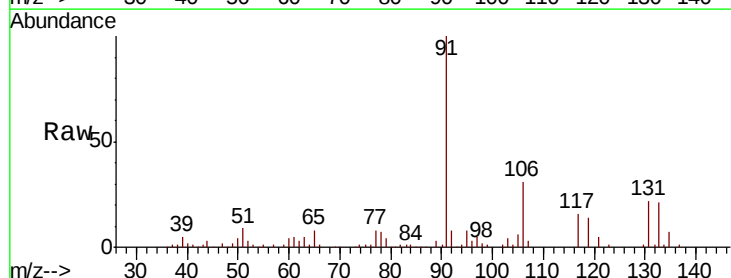
Acq: 22 May 2019 16:57

Tgt Ion: 91 Resp: 81904

Ion Ratio Lower Upper

91 100

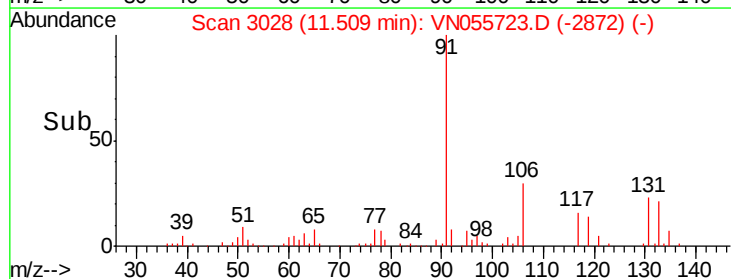
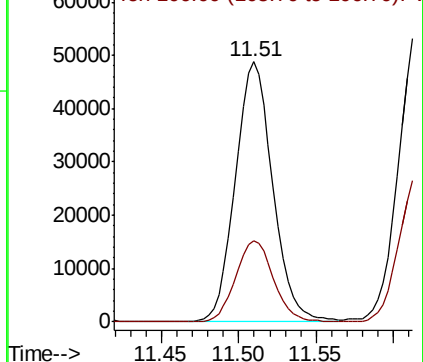
106 31.0 25.6 38.4

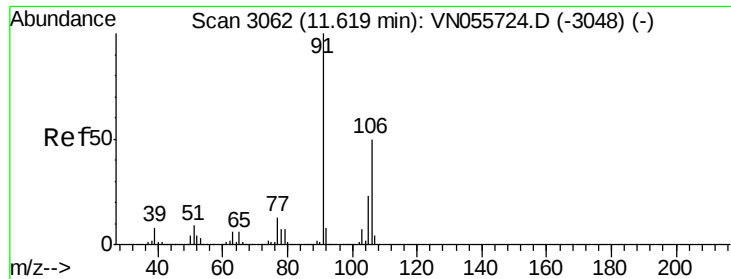


Abundance

Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 10.442 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

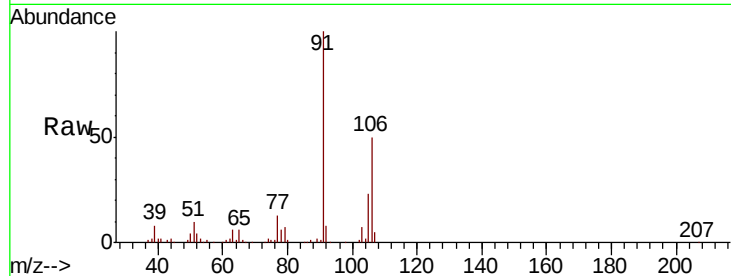
VSTDIC005

Tot Ion:106 Resp: 61558

Ion Ratio Lower Upper

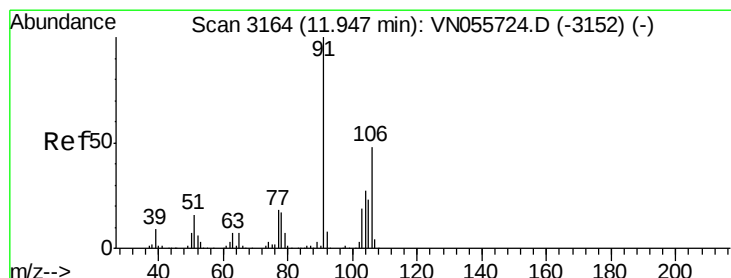
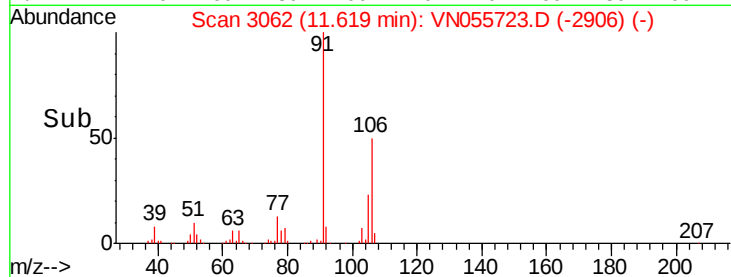
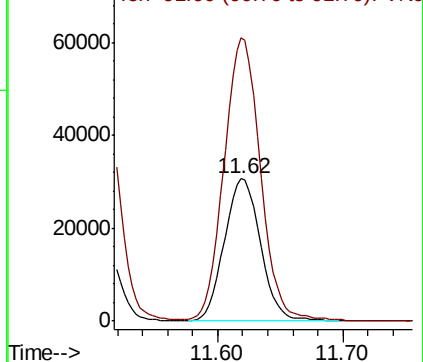
106 100

91 199.0 159.5 239.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 5.338 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055723.D

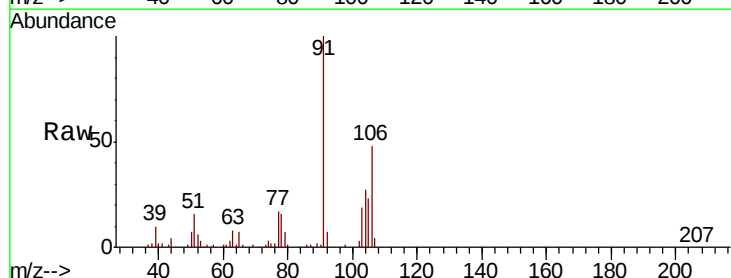
Acq: 22 May 2019 16:57

Tgt Ion:106 Resp: 31269

Ion Ratio Lower Upper

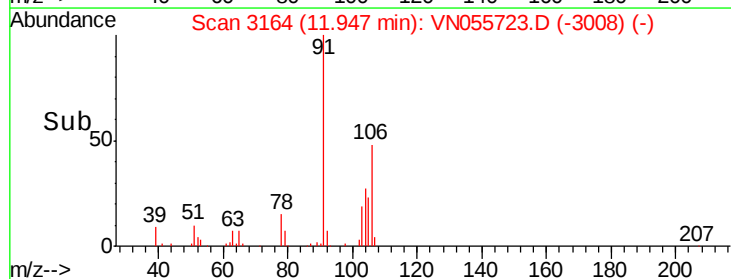
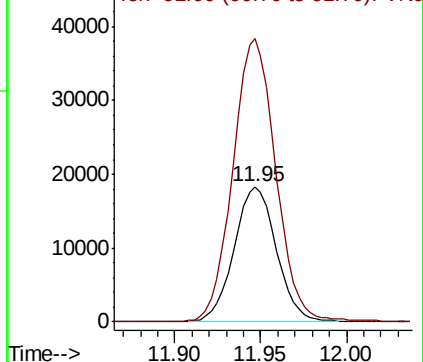
106 100

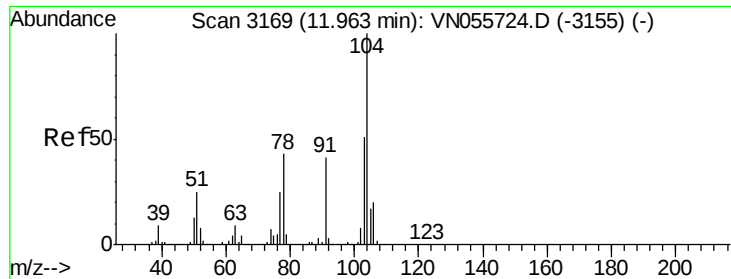
91 213.5 105.4 316.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

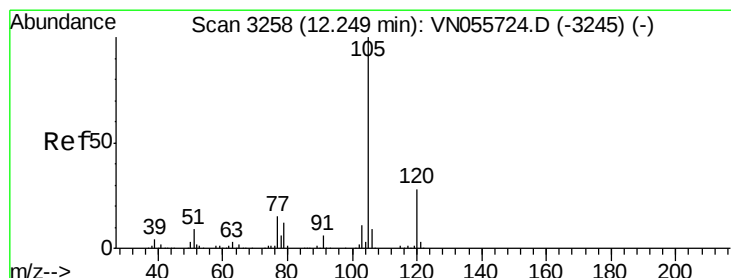
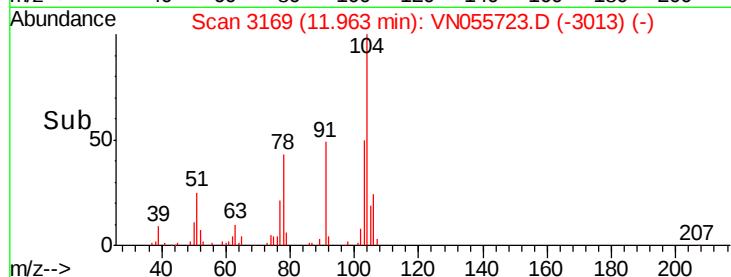
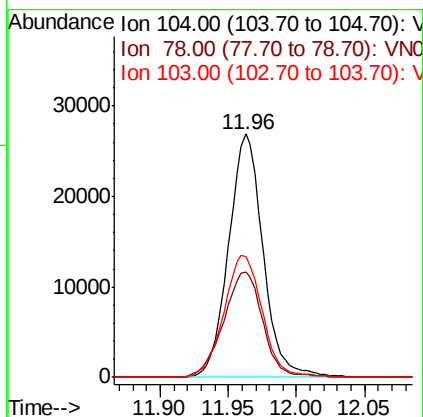
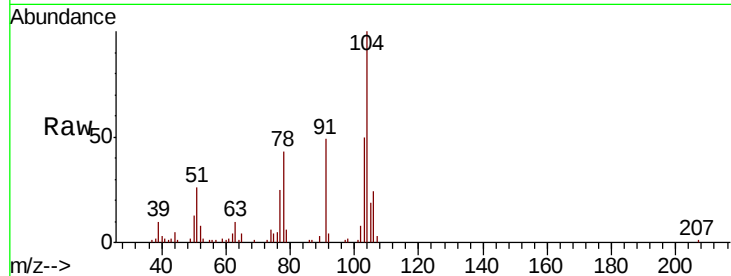




#69
Stvrene
Concen: 5.123 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

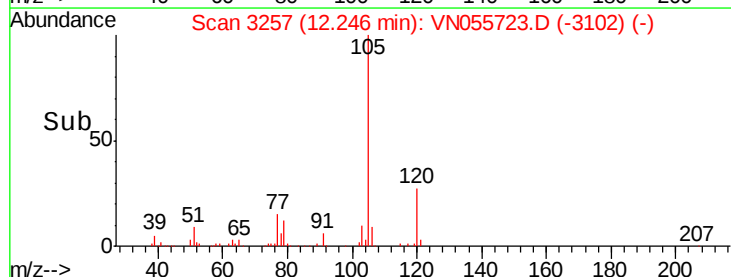
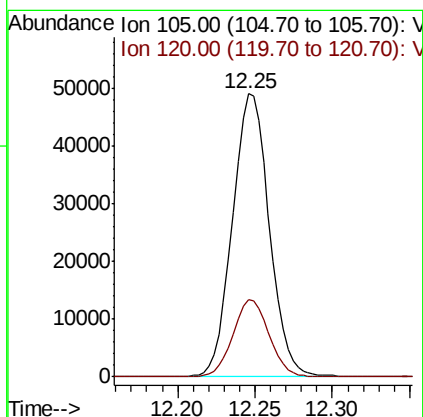
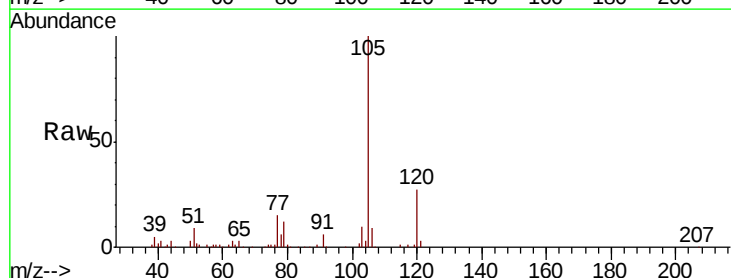
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

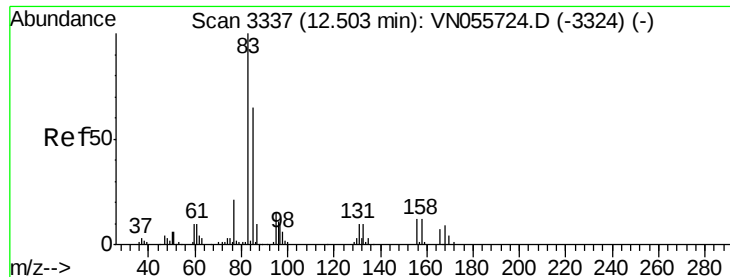
Tot Ion:104 Resp: 47371
Ion Ratio Lower Upper
104 100
78 48.4 38.7 58.1
103 55.8 45.0 67.6



#70
Isopropylbenzene
Concen: 5.259 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion:105 Resp: 81064
Ion Ratio Lower Upper
105 100
120 26.7 19.2 35.6





#71

1,1,2,2-Tetrachloroethane

Concen: 5.807 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

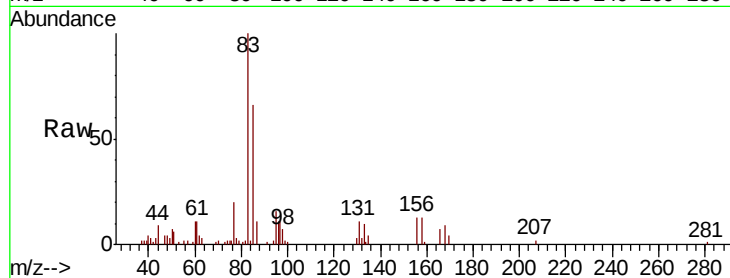
Tot Ion: 83 Resp: 25426

Ion Ratio Lower Upper

83 100

131 11.4 5.3 15.8

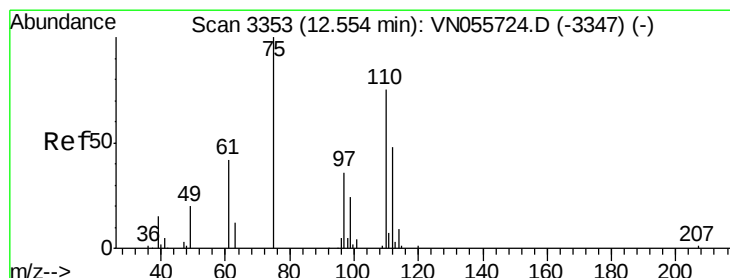
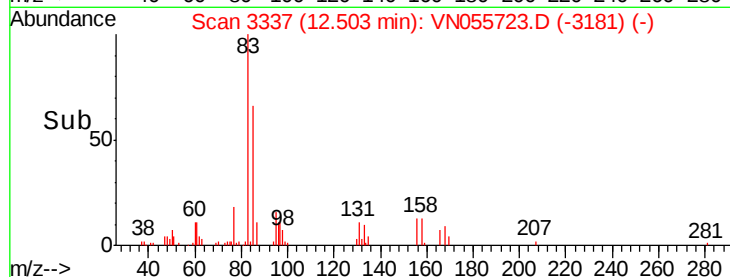
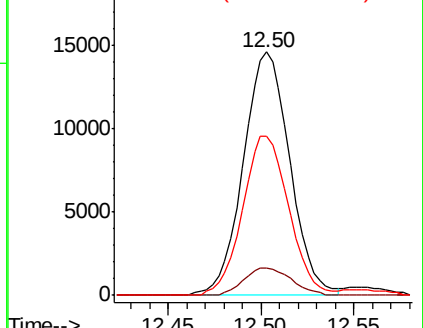
85 64.9 32.3 96.9



Abundance Ion 83.00 (82.70 to 83.70): VN055723.D (-3181) (-)

Ion 131.00 (130.70 to 131.70): VN055723.D (-3181) (-)

Ion 85.00 (84.70 to 85.70): VN055723.D (-3181) (-)



#72

1,2,3-Trichloropropane

Concen: 8.028 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN055723.D

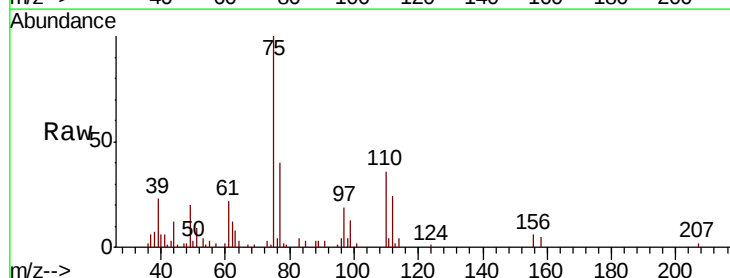
Acq: 22 May 2019 16:57

Tgt Ion: 75 Resp: 30713

Ion Ratio Lower Upper

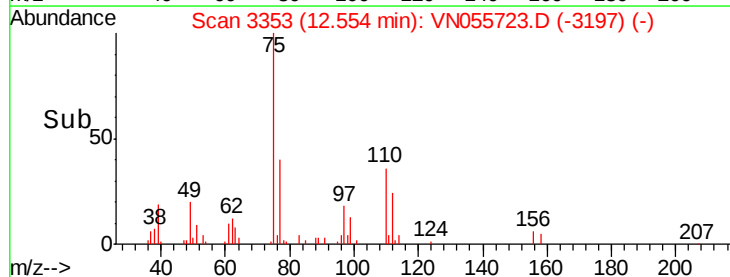
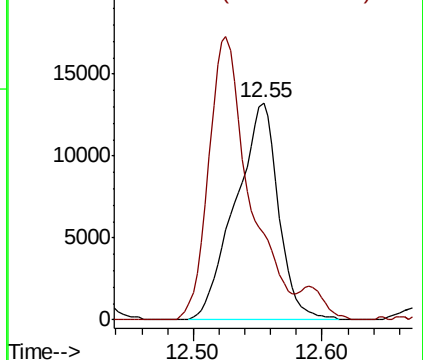
75 100

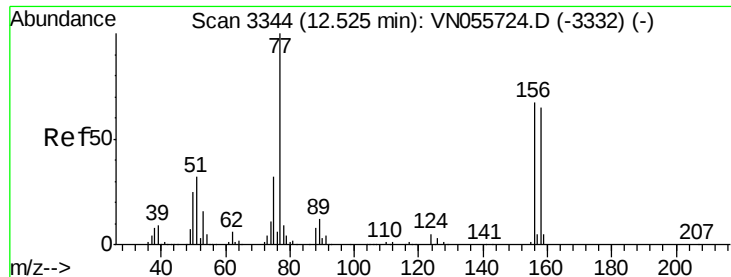
77 123.4 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN055723.D (-3197) (-)

Ion 77.00 (76.70 to 77.70): VN055723.D (-3197) (-)





#73

Bromobenzene

Concen: 5.377 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

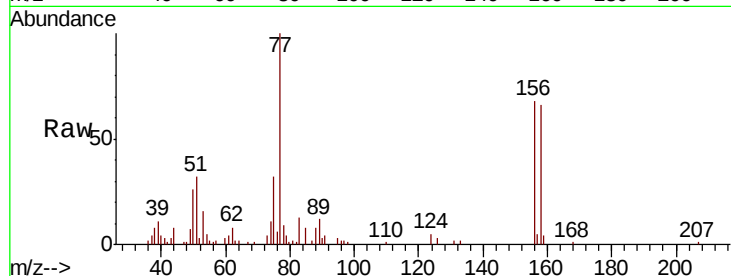
Tot Ion:156 Resp: 20203

Ion Ratio Lower Upper

156 100

77 187.6 0.0 368.0

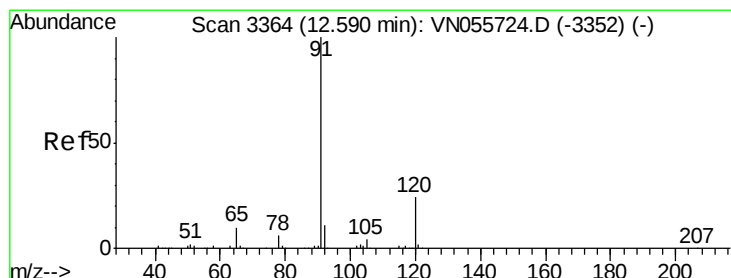
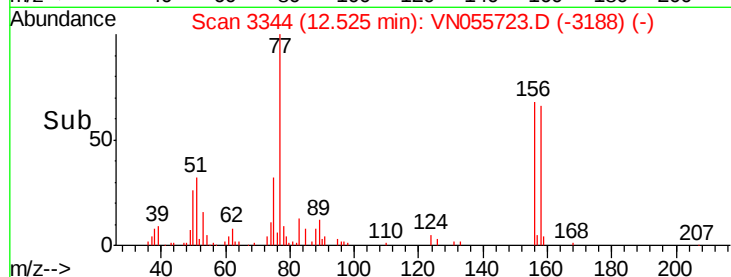
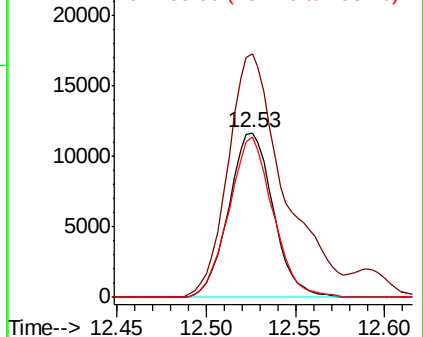
158 96.9 0.0 195.0



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 4.718 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055723.D

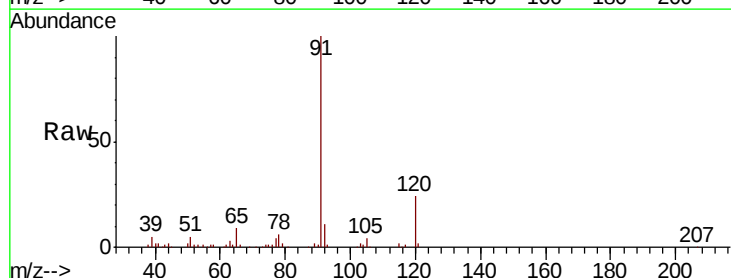
Acq: 22 May 2019 16:57

Tgt Ion: 91 Resp: 80666

Ion Ratio Lower Upper

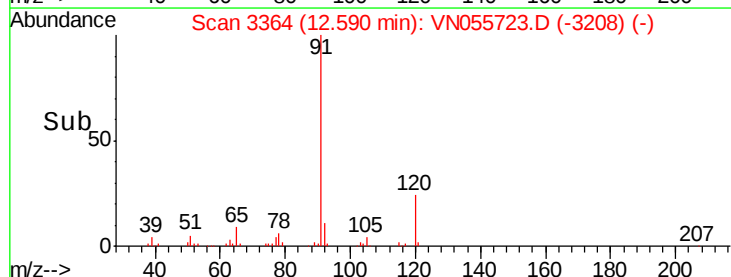
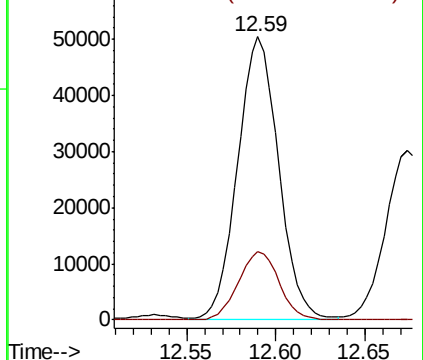
91 100

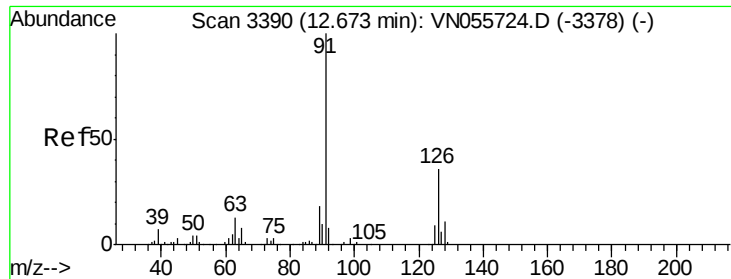
120 23.9 0.0 47.4



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 4.900 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

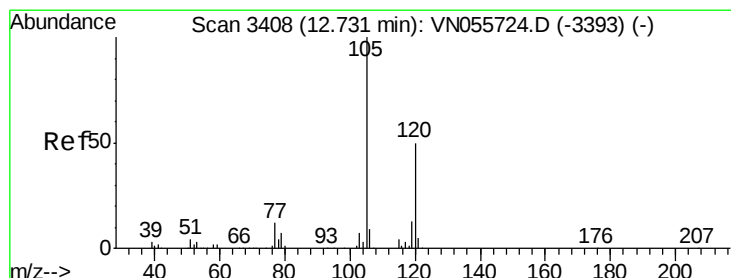
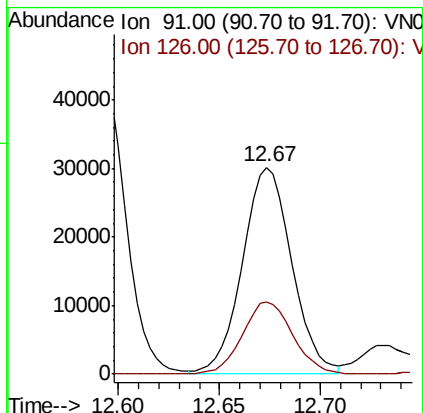
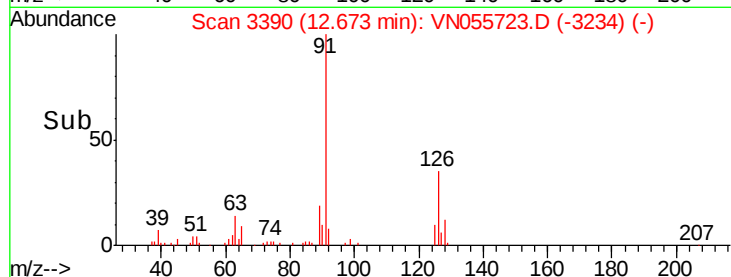
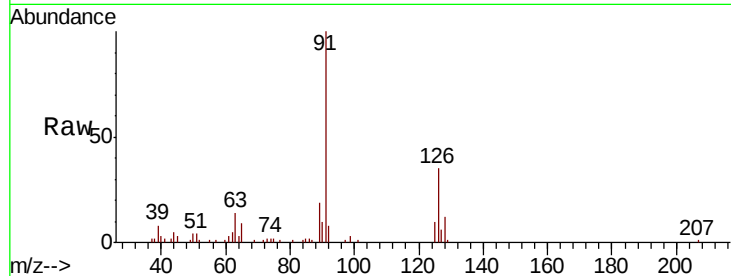
VSTDIC005

Tot Ion: 91 Resp: 51422

Ion Ratio Lower Upper

91 100

126 35.6 0.0 71.0



#76

1,3,5-Trimethylbenzene

Concen: 5.168 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055723.D

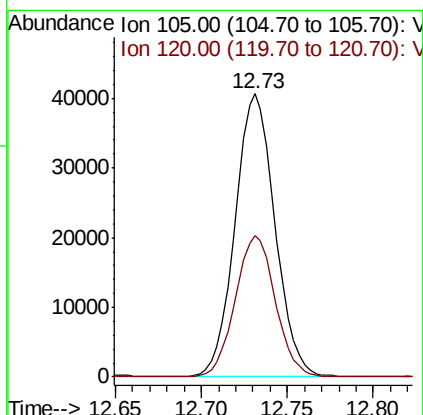
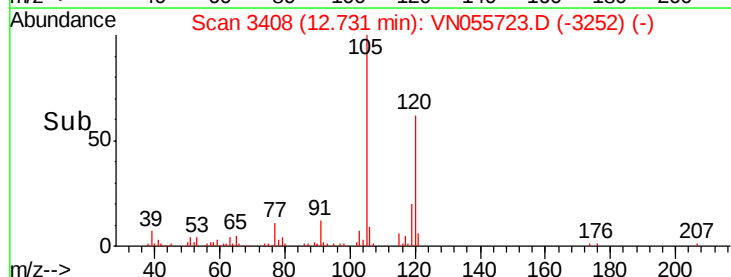
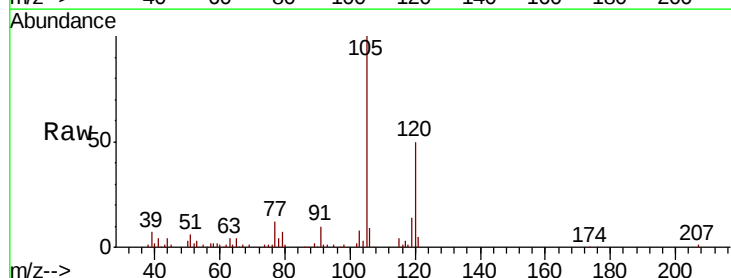
Acq: 22 May 2019 16:57

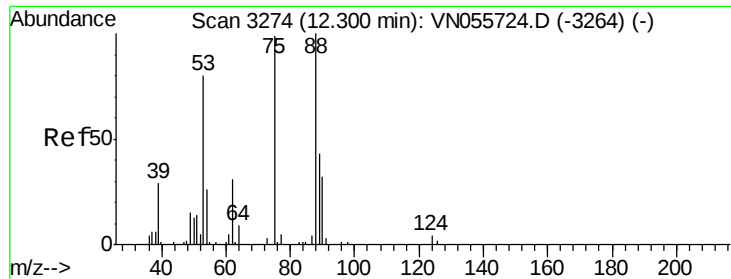
Tgt Ion: 105 Resp: 65718

Ion Ratio Lower Upper

105 100

120 49.8 0.0 99.2





#77

t-1,4-Dichloro-2-butene

Concen: 7.531 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

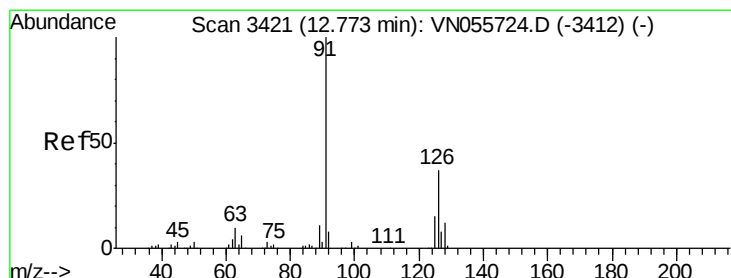
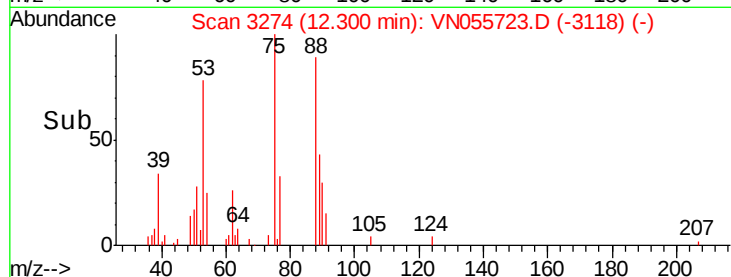
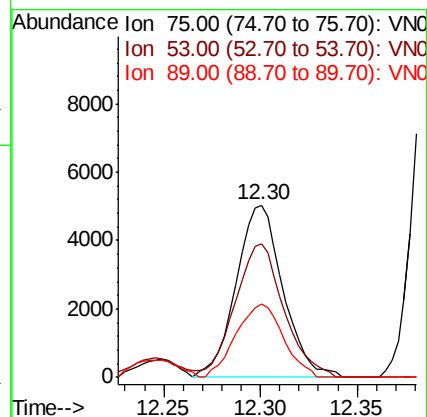
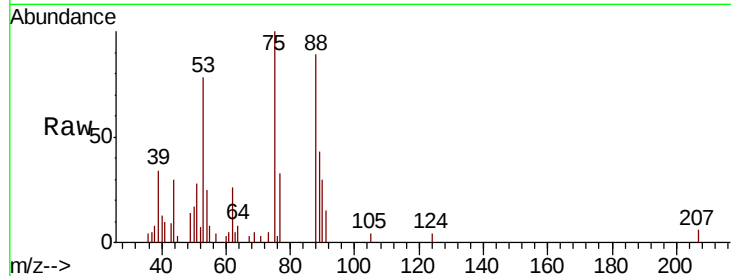
Tot Ion: 75 Resp: 8475

Ion Ratio Lower Upper

75 100

53 77.8 40.1 120.3

89 42.8 22.6 67.8



#78

4-Chlorotoluene

Concen: 4.463 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. -0.00 min

Lab File: VN055723.D

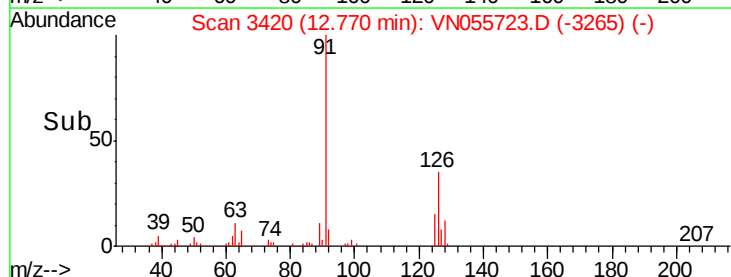
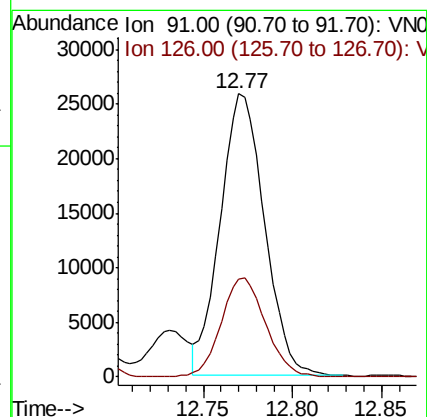
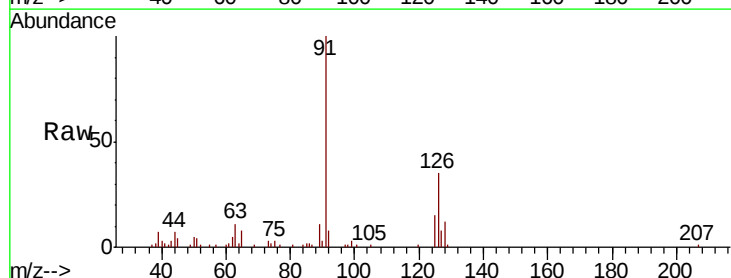
Acq: 22 May 2019 16:57

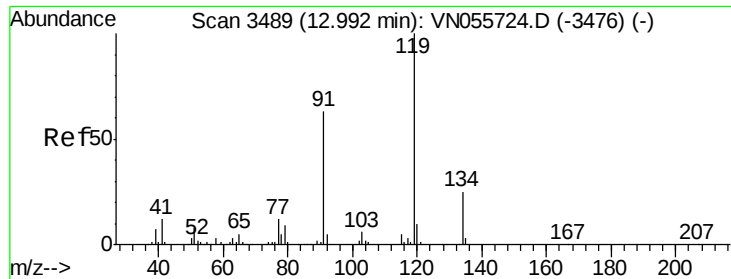
Tgt Ion: 91 Resp: 44396

Ion Ratio Lower Upper

91 100

126 35.3 0.0 69.0

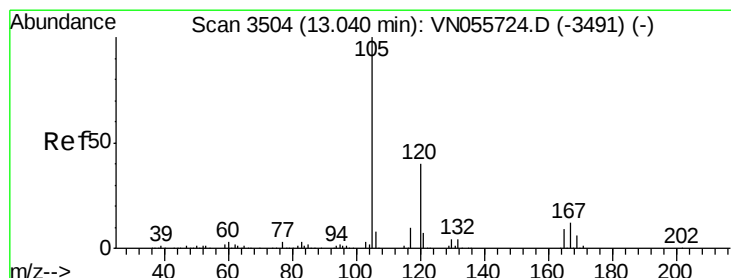
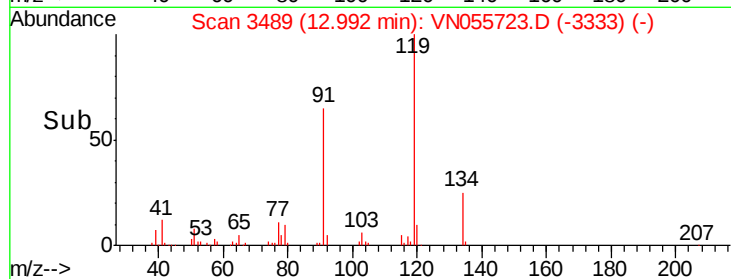
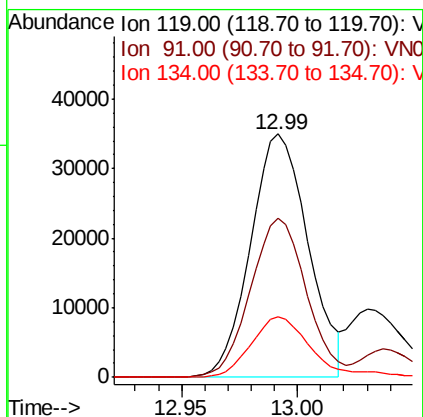
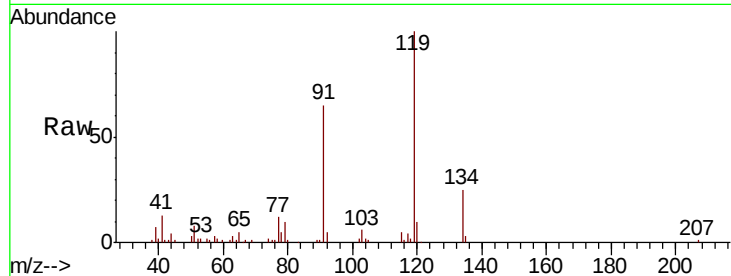




#79
tert-butylbenzene
Concen: 5.509 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

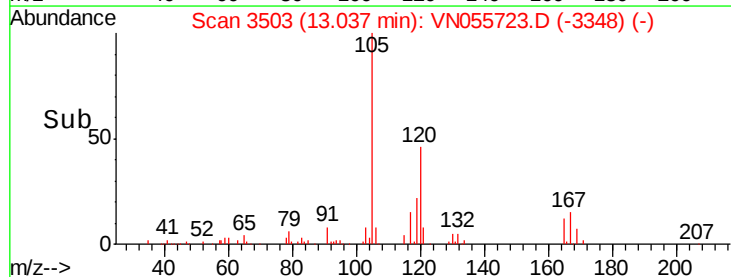
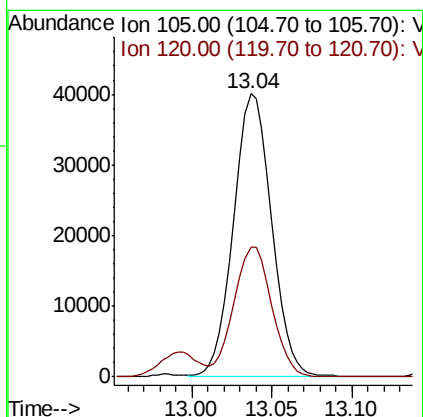
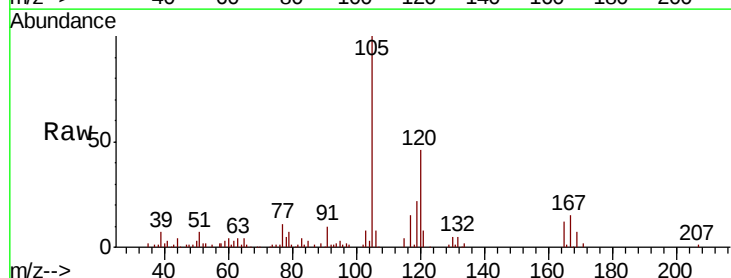
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

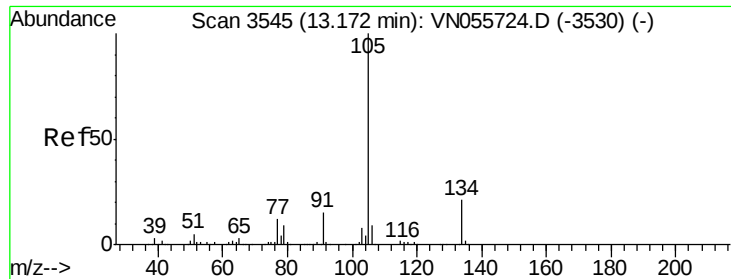
Tot Ion:119 Resp: 60604
Ion Ratio Lower Upper
119 100
91 63.2 0.0 123.8
134 26.1 0.0 52.6



#80
1,2,4-Trimethylbenzene
Concen: 5.298 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion:105 Resp: 65035
Ion Ratio Lower Upper
105 100
120 45.7 0.0 93.6





#81

sec-Butylbenzene

Concen: 5.065 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

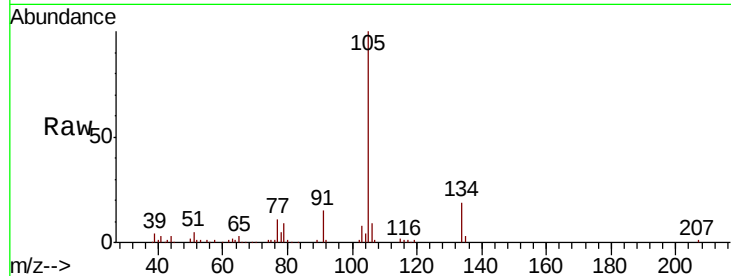
VSTDIC005

Tot Ion:105 Resp: 72937

Ion Ratio Lower Upper

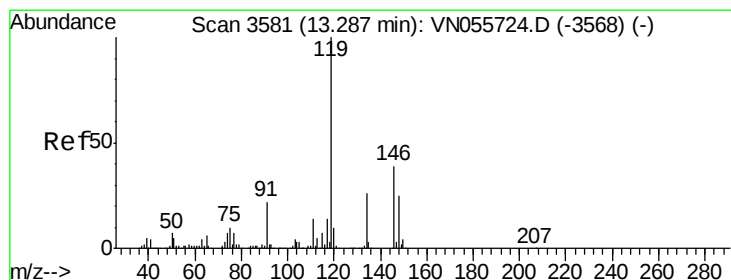
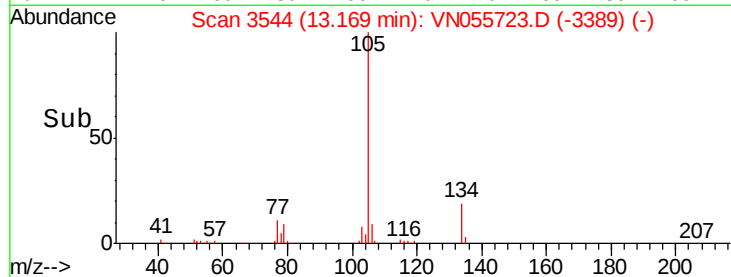
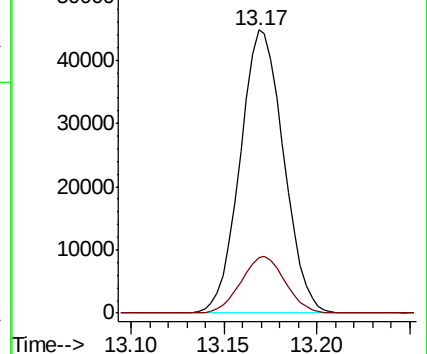
105 100

134 20.3 0.0 41.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 5.349 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

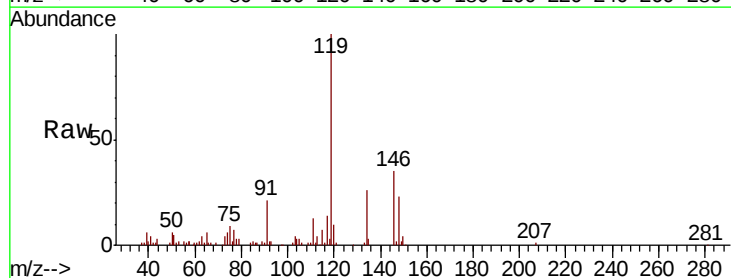
Tgt Ion:119 Resp: 65406

Ion Ratio Lower Upper

119 100

134 26.7 0.0 52.0

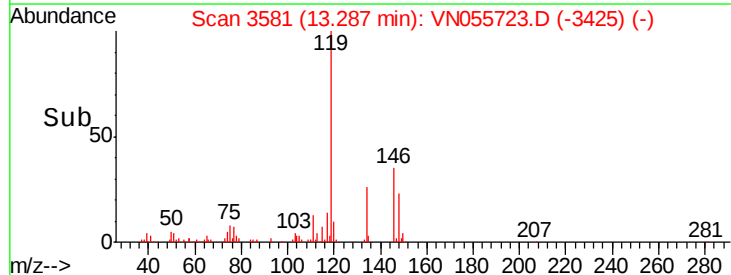
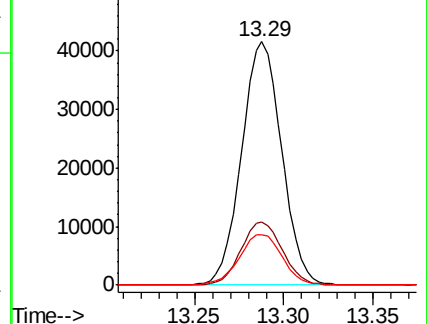
91 22.3 0.0 44.4

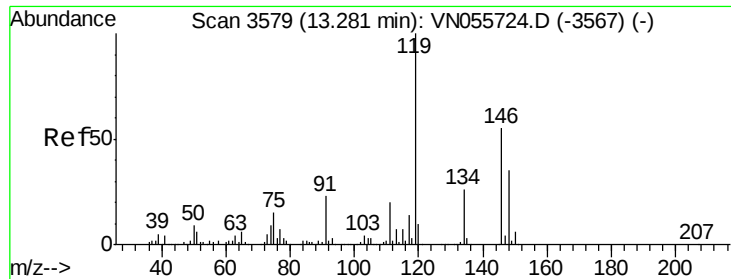


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

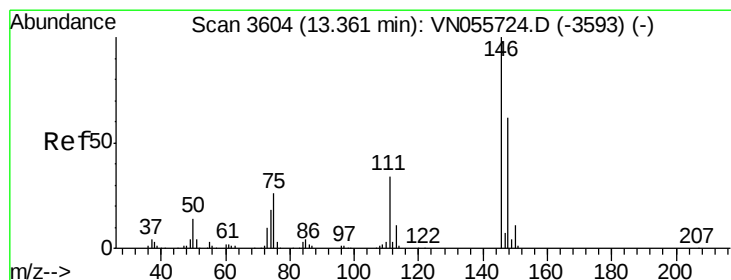
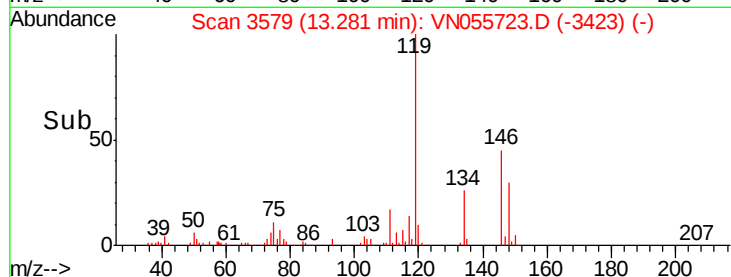
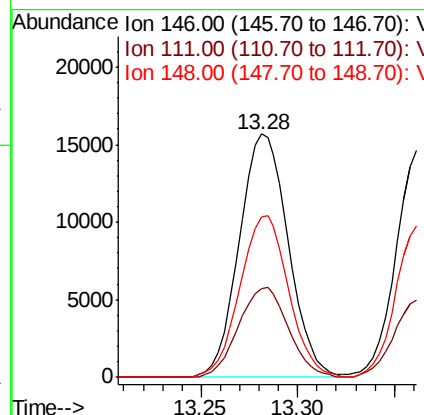
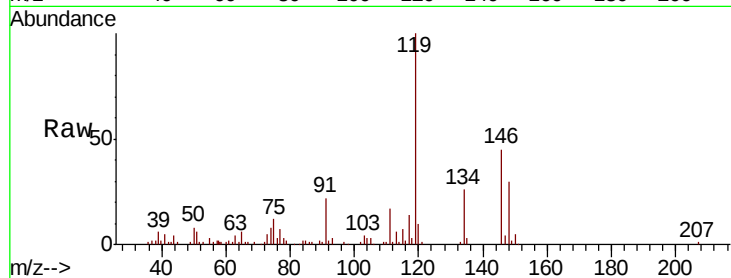




#83
 1,3-Dichlorobenzene
 Concen: 4.553 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

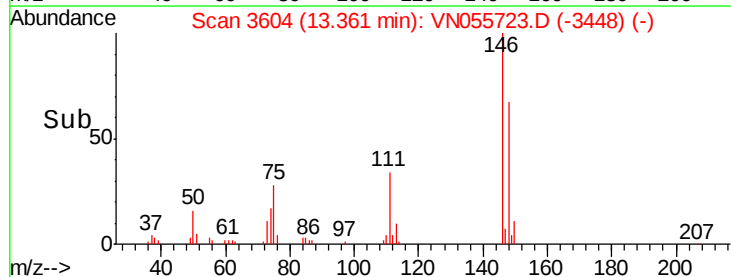
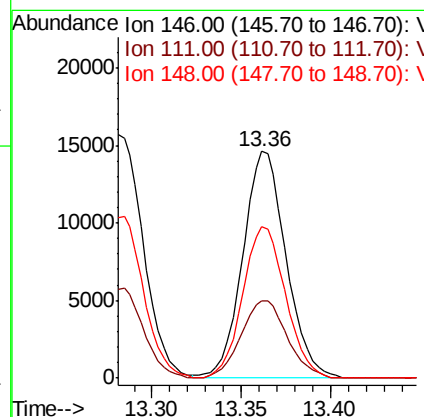
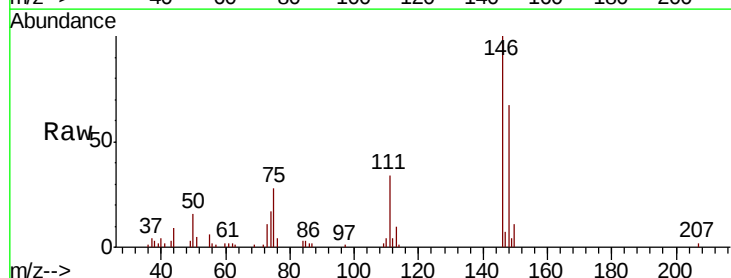
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

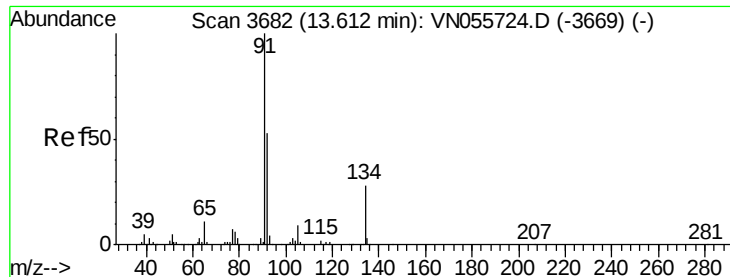
Tot Ion:146 Resp: 27623
 Ion Ratio Lower Upper
 146 100
 111 37.7 18.6 55.6
 148 65.8 32.2 96.6



#84
 1,4-Dichlorobenzene
 Concen: 4.332 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion:146 Resp: 24793
 Ion Ratio Lower Upper
 146 100
 111 36.4 17.5 52.6
 148 66.1 31.8 95.4

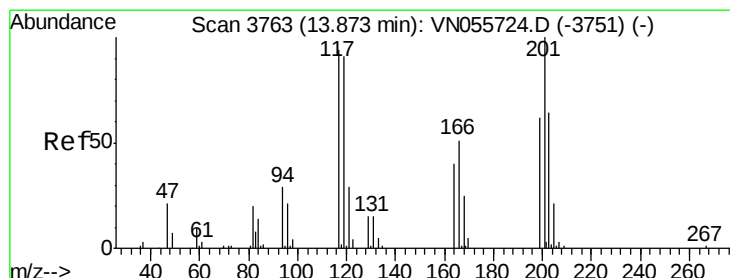
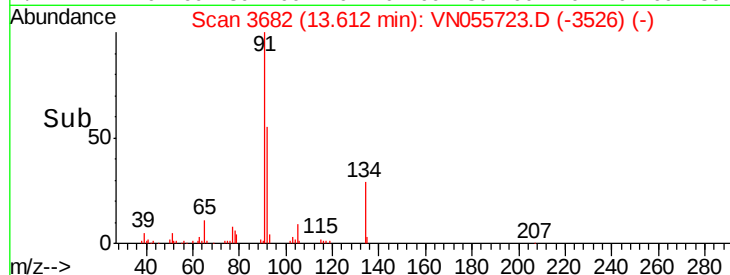
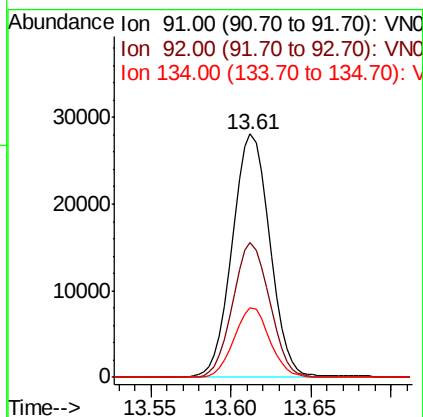
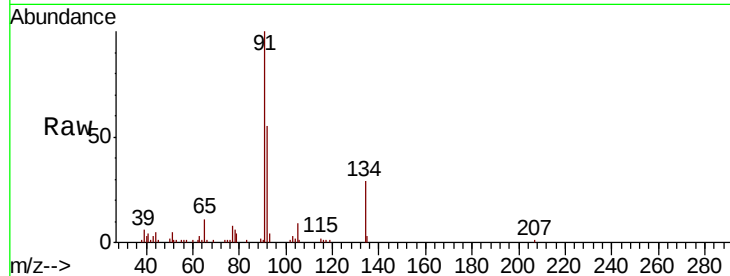




#85
n-Butylbenzene
Concen: 4.774 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

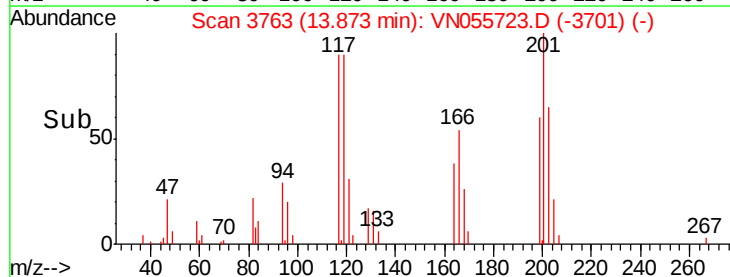
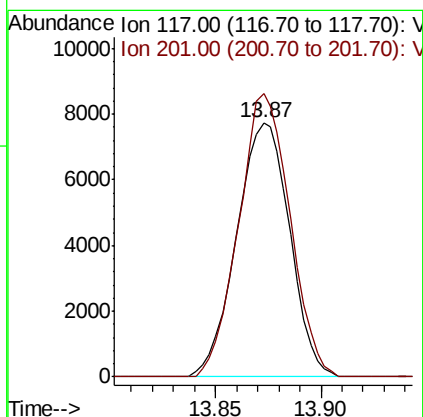
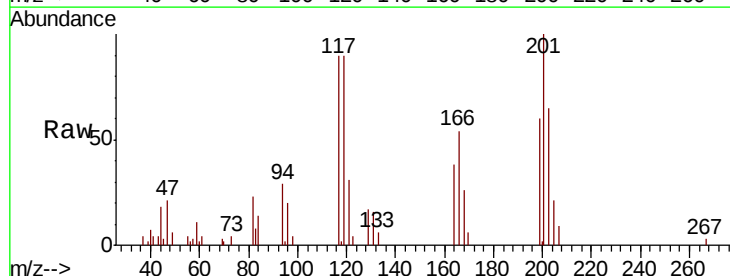
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

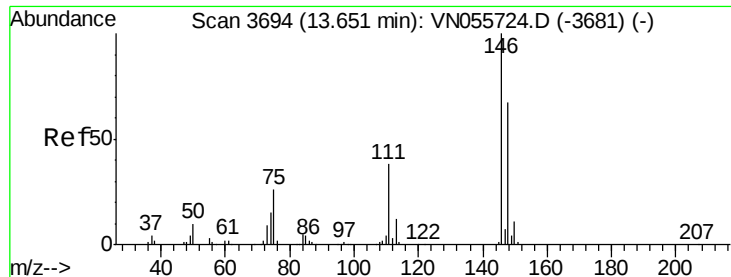
Tot Ion: 91 Resp: 44935
Ion Ratio Lower Upper
91 100
92 54.2 0.0 106.8
134 26.9 0.0 55.2



#86
Hexachloroethane
Concen: 6.216 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055723.D
Acq: 22 May 2019 16:57

Tgt Ion: 117 Resp: 13524
Ion Ratio Lower Upper
117 100
201 107.6 52.5 157.6





#87

1,2-Dichlorobenzene

Concen: 4.902 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

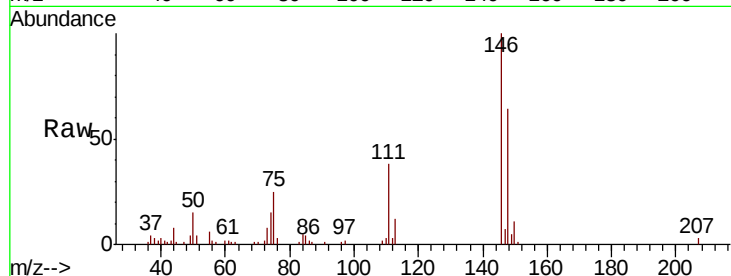
Tot Ion:146 Resp: 29782

Ion Ratio Lower Upper

146 100

111 38.8 19.2 57.6

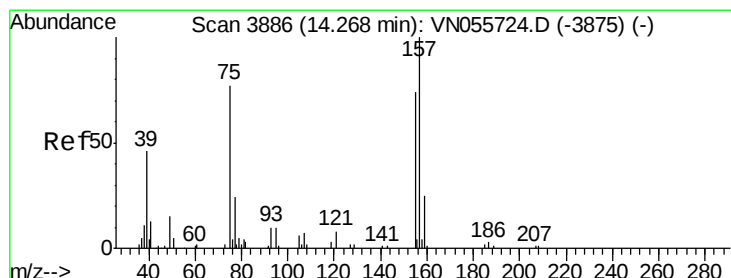
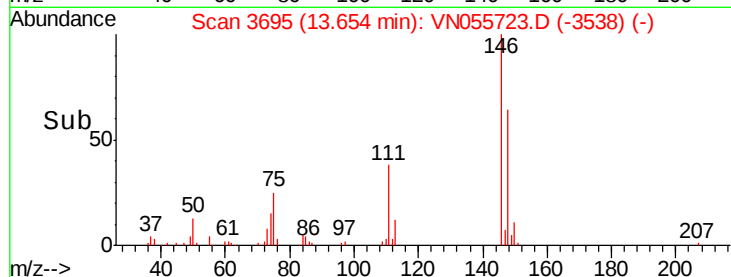
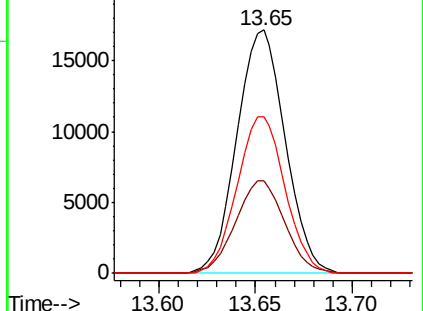
148 63.9 32.7 98.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 6.619 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

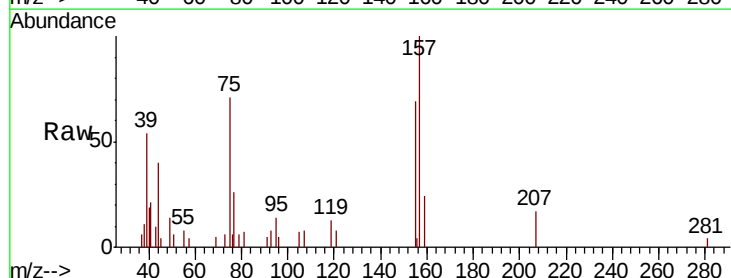
Tgt Ion: 75 Resp: 4562

Ion Ratio Lower Upper

75 100

155 98.9 78.4 117.6

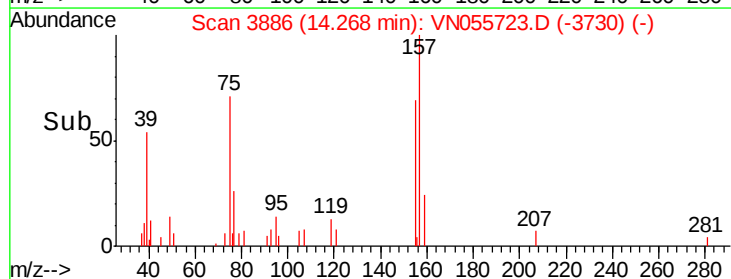
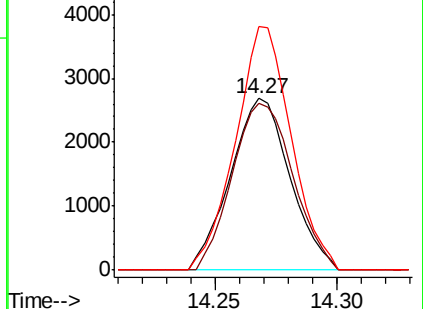
157 132.2 105.0 157.4

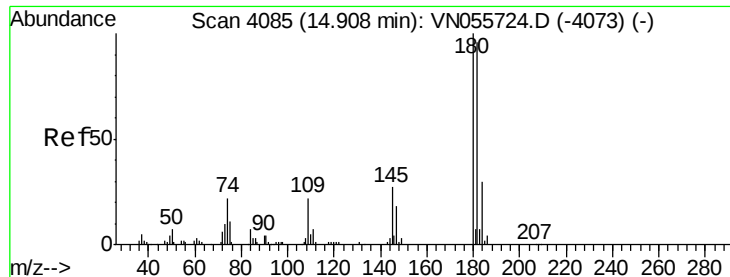


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

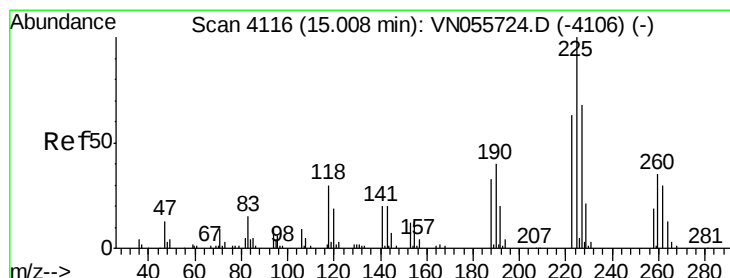
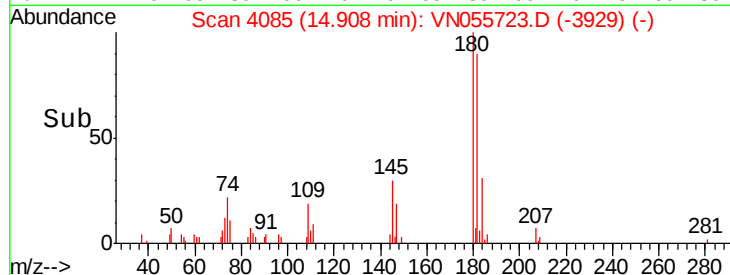
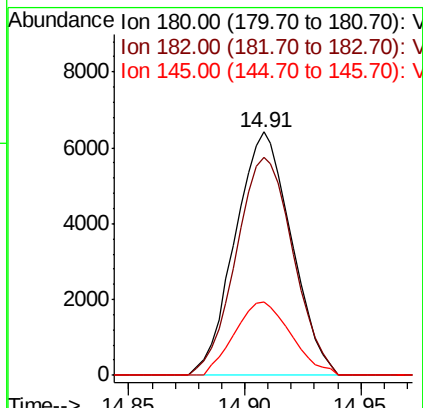
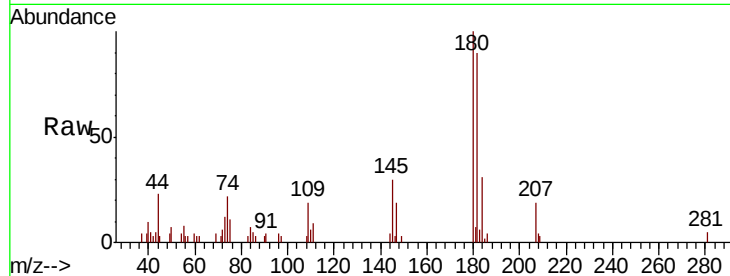




#89
 1,2,4-Trichlorobenzene
 Concen: 4.198 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

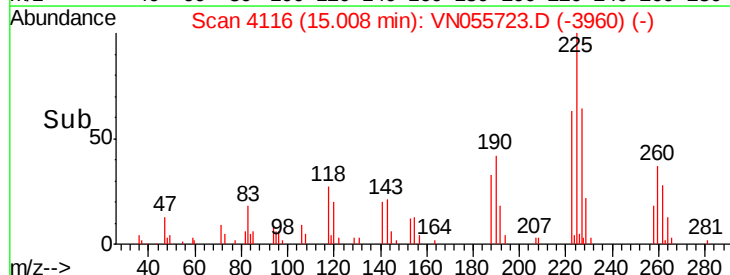
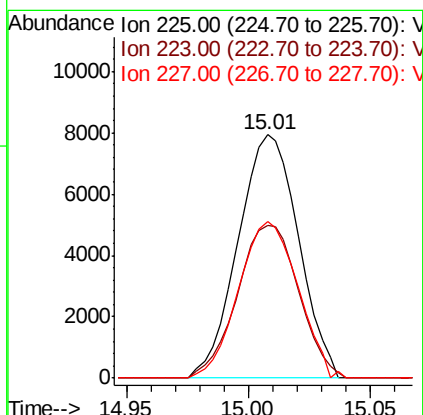
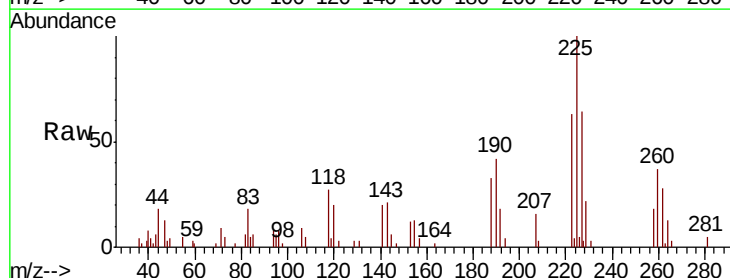
Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

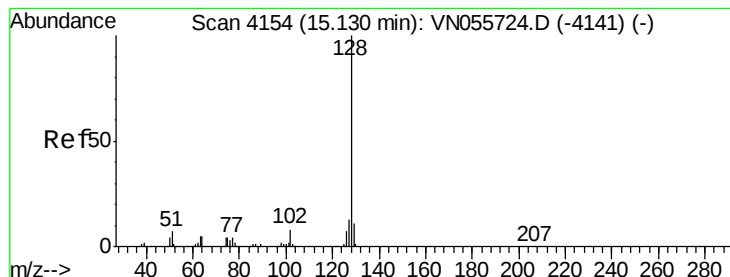
Tot Ion:180 Resp: 10820
 Ion Ratio Lower Upper
 180 100
 182 90.8 76.1 114.1
 145 30.2 21.8 32.8



#90
 Hexachlorobutadiene
 Concen: 6.405 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055723.D
 Acq: 22 May 2019 16:57

Tgt Ion:225 Resp: 13624
 Ion Ratio Lower Upper
 225 100
 223 63.9 0.0 126.0
 227 62.9 0.0 133.0





#91

Naphthalene

Concen: 5.092 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

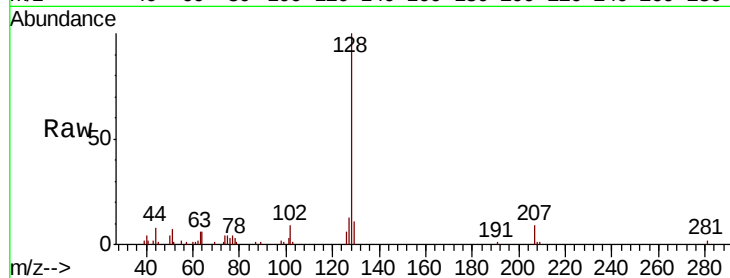
Tot Ion:128 Resp: 32086

Ion Ratio Lower Upper

128 100

127 13.1 10.0 15.0

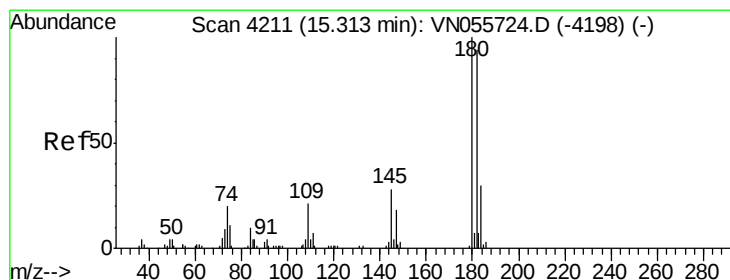
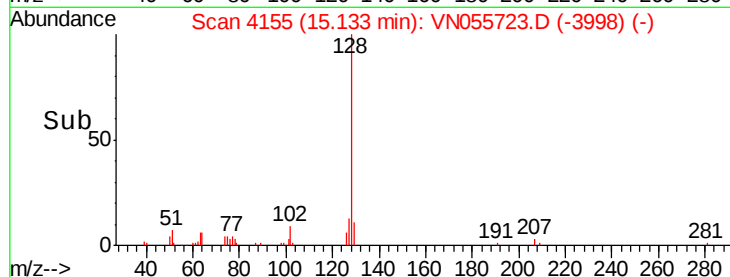
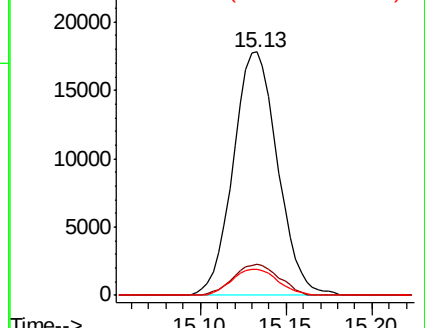
129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 4.709 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055723.D

Acq: 22 May 2019 16:57

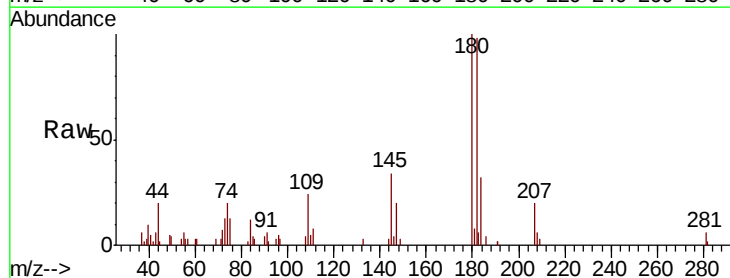
Tgt Ion:180 Resp: 12772

Ion Ratio Lower Upper

180 100

182 97.3 0.0 188.6

145 31.0 0.0 56.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

