

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV080319\
 Data File : VV012101.D
 Acq On : 03 Aug 2019 10:32
 Operator : SY/MD
 Sample : VSTD02563
 Misc : 5gm/10ml/MSVOA_V/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Quant Time: Aug 05 07:48:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM080319S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 05 07:43:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	182959	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	173671	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	98111	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	41563	17.79	ug/L	0.00
7) Chloroethane-d5	1.58	69	31363	17.65	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	82724	17.48	ug/L	0.00
20) 2-Butanone-d5	3.95	46	48710	54.09	ug/L	0.00
24) Chloroform-d	4.40	84	115973	25.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	71254	24.68	ug/L	0.00
29) Benzene-d6	5.10	84	218072	23.65	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	61176	21.23	ug/L	0.00
37) Toluene-d8	7.36	98	218055	24.72	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	36752	26.69	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	38499	55.34	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	68737	25.72	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	93146	25.49	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	78277	26.483	ug/L 100
3) Chloromethane	1.25	50	44847	16.979	ug/L 100
5) Vinyl chloride	1.32	62	46247	17.484	ug/L 100
6) Bromomethane	1.54	94	29354	20.005	ug/L 100
8) Chloroethane	1.60	64	26309	17.257	ug/L 100
9) Trichlorofluoromethane	1.77	101	87886	22.178	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	42563	20.158	ug/L 100
12) 1,1-Dichloroethene	2.14	96	37447	19.332	ug/L 100
13) Acetone	2.22	43	61259	57.557	ug/L 100
14) Carbon disulfide	2.32	76	160458	24.592	ug/L 100
15) Methyl Acetate	2.47	43	33635	21.993	ug/L 100
16) Methylene chloride	2.53	84	59269	21.812	ug/L 100
17) Methyl tert-butyl Ether	2.80	73	161526	23.223	ug/L 100
18) trans-1,2-Dichloroethene	2.79	96	60411	24.423	ug/L 100
19) 1,1-Dichloroethane	3.23	63	97554	21.043	ug/L 100
21) 2-Butanone	4.03	43	60837	50.203	ug/L 100
22) cis-1,2-Dichloroethene	3.96	96	65225	23.818	ug/L 100
23) Bromochloromethane	4.30	128	33039	26.698	ug/L 100
25) Chloroform	4.42	83	112128	22.354	ug/L 100
27) 1,2-Dichloroethane	5.18	62	85928	24.162	ug/L 100
30) Cyclohexane	4.72	56	86305	19.681	ug/L 100
31) 1,1,1-Trichloroethane	4.66	97	109250	27.168	ug/L 100
32) Carbon tetrachloride	4.87	117	102852	29.434	ug/L 100
34) Benzene	5.14	78	227861	22.885	ug/L 100
35) Trichloroethene	5.96	95	66755	24.985	ug/L 100
36) Methylcyclohexane	6.17	83	105999	23.660	ug/L 100
40) 1,2-Dichloropropane	6.22	63	51858	20.148	ug/L 100
41) Bromodichloromethane	6.55	83	84458	24.380	ug/L 100
42) cis-1,3-Dichloropropene	7.07	75	99082	23.742	ug/L 100
43) 4-Methyl-2-pentanone	7.27	43	102183	43.474	ug/L 100

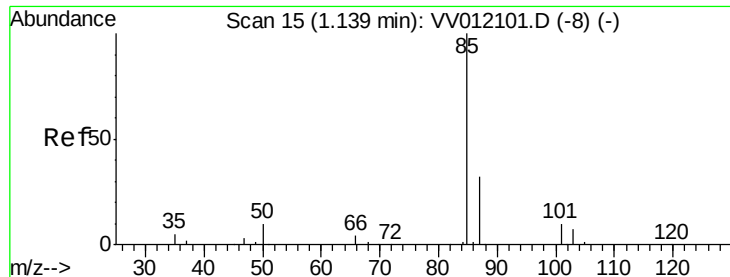
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV080319\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	262457	23.911	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	85404	23.906	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	51762	24.883	ug/L	100
47) Tetrachloroethene	8.02	164	61165	29.372	ug/L	100
49) 2-Hexanone	8.18	43	85868	49.692	ug/L	100
50) Dibromochloromethane	8.29	129	70443	28.841	ug/L	100
51) 1,2-Dibromoethane	8.40	107	55514	26.943	ug/L	100
52) Chlorobenzene	8.92	112	174738	24.577	ug/L	100
53) Ethylbenzene	9.05	91	298640	23.750	ug/L	100
54) m,p-Xylene	9.18	106	117349	24.790	ug/L	100
55) o-xylene	9.59	106	112327	24.262	ug/L	100
56) Styrene	9.60	104	193774	24.904	ug/L	100
57) Isopropylbenzene	9.97	105	308118	24.813	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	67896	24.179	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	54547	25.501	ug/L	100
62) Bromoform	9.77	173	51867	32.107	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	158593	25.132	ug/L	100
64) 1,4-Dichlorobenzene	11.32	146	158221	24.758	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	147771	24.871	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	17447	28.949	ug/L	100
67) 1,3,5-Trichlorobenzene	12.69	180	132527	27.468	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	116582	29.621	ug/L	100
69) Naphthalene	13.55	128	232737	29.332	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	109331	29.826	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 26.483 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

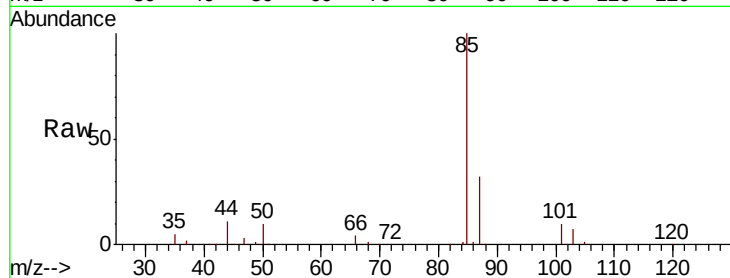
VSTD02563

Tgt Ion: 85 Resp: 78277

Ion Ratio Lower Upper

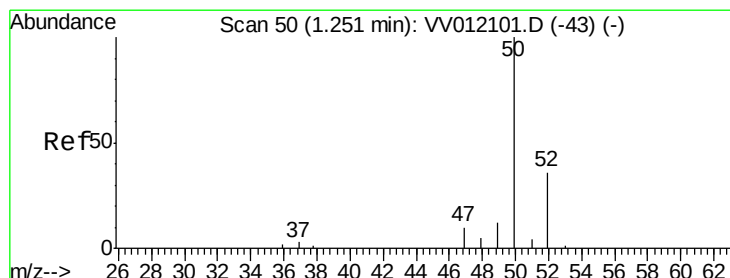
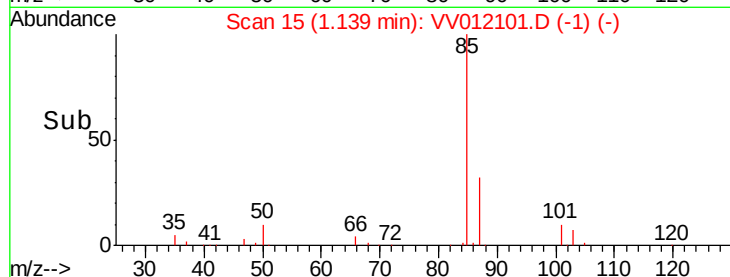
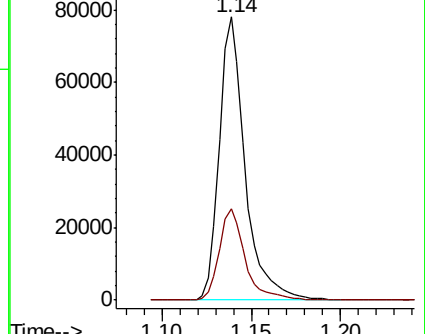
85 100

87 32.4 22.7 42.1



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 16.979 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012101.D

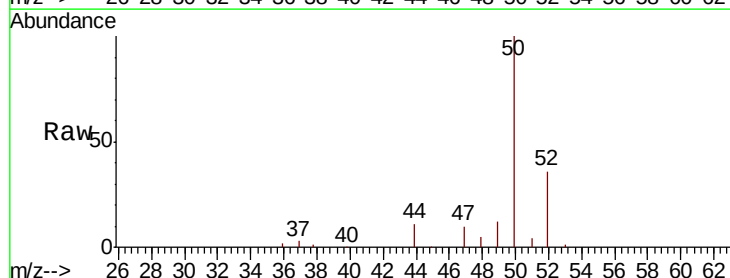
Acq: 03 Aug 2019 10:32

Tgt Ion: 50 Resp: 44847

Ion Ratio Lower Upper

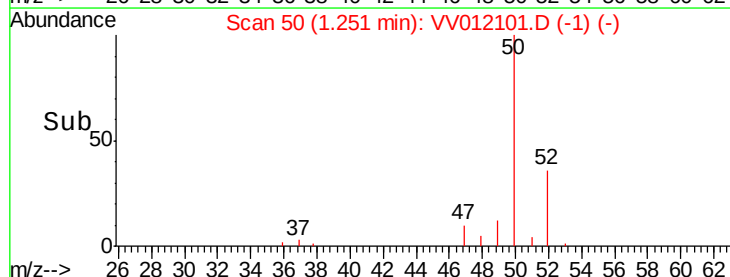
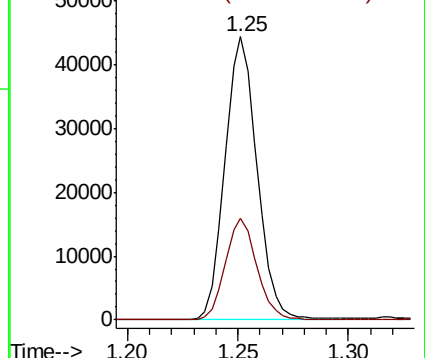
50 100

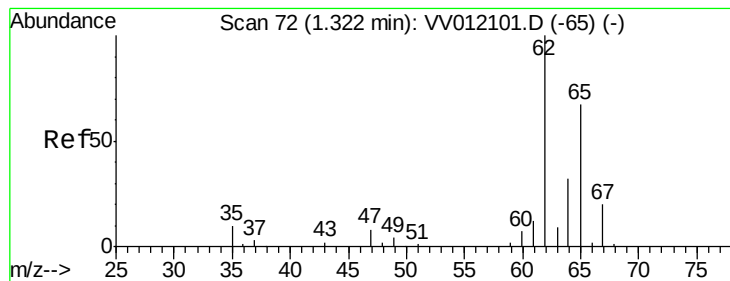
52 35.7 25.0 46.4



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 17.484 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

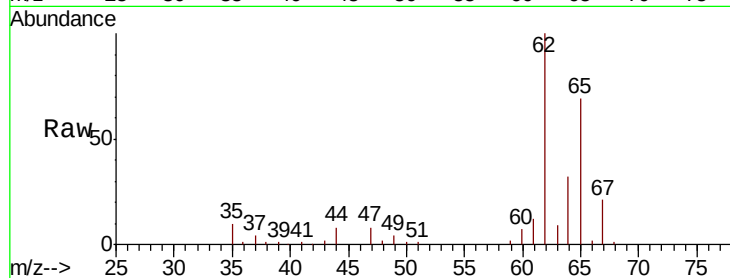
VSTD02563

Tgt Ion: 62 Resp: 46247

Ion Ratio Lower Upper

62 100

64 32.2 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

40000

30000

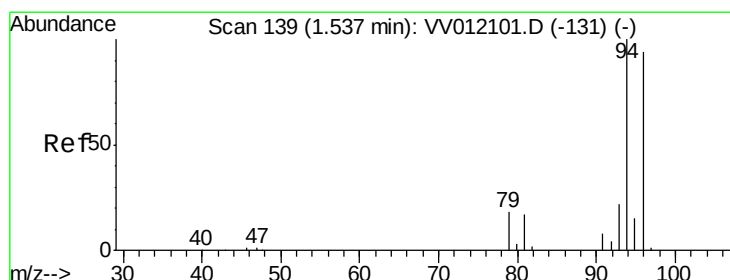
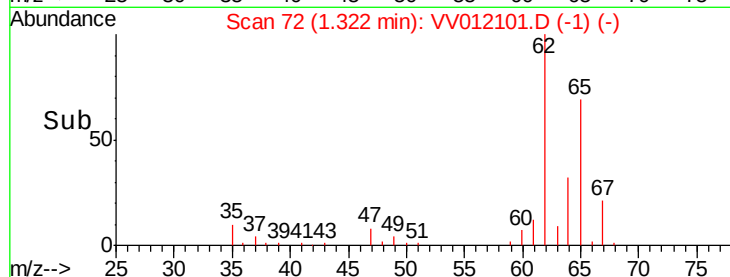
20000

10000

0

Time-->

1.30 1.35



#6

Bromomethane

Concen: 20.005 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012101.D

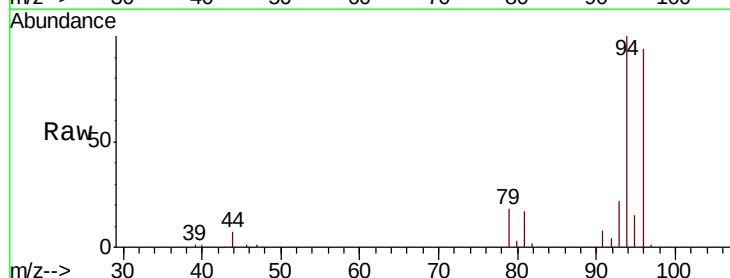
Acq: 03 Aug 2019 10:32

Tgt Ion: 94 Resp: 29354

Ion Ratio Lower Upper

94 100

96 92.8 9.3 176.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

30000

25000

20000

15000

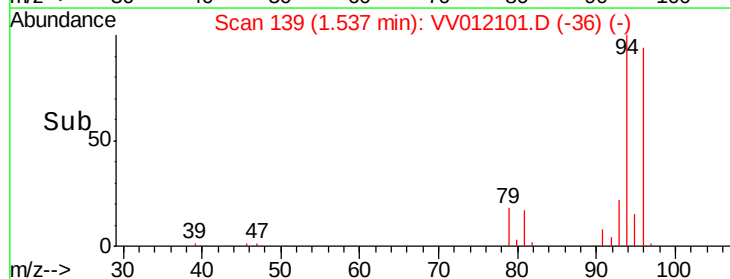
10000

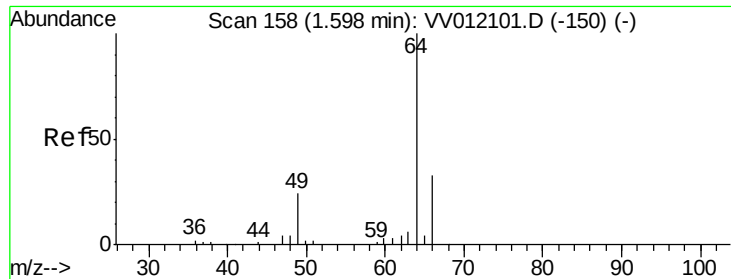
5000

0

Time-->

1.50 1.55

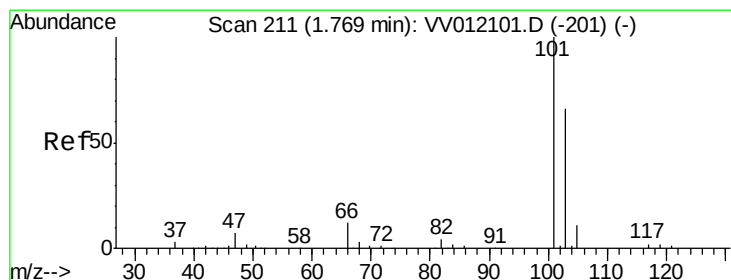
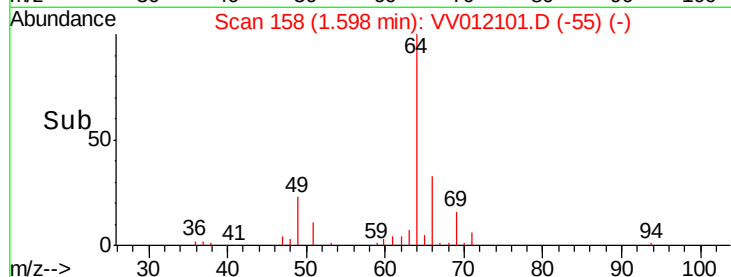
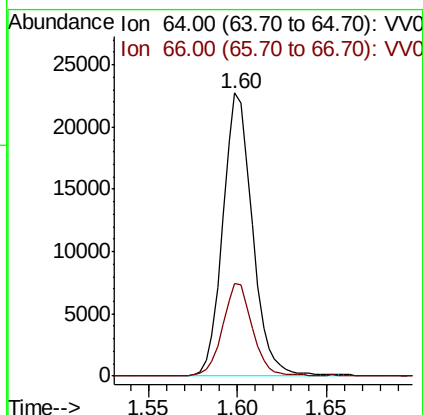
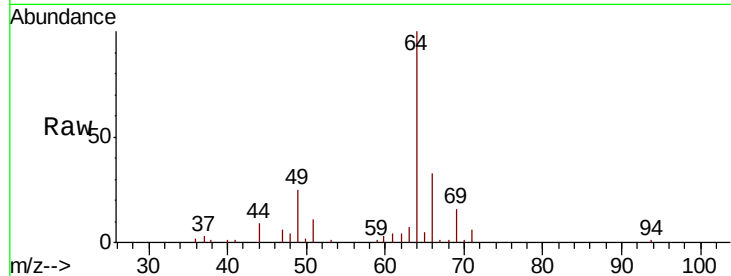




#8
Chloroethane
Concen: 17.257 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

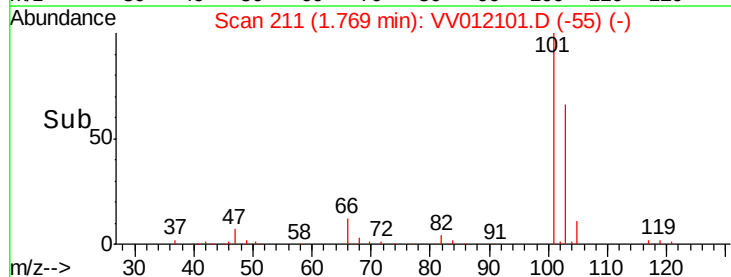
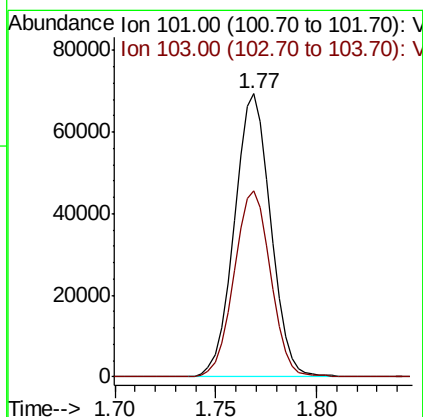
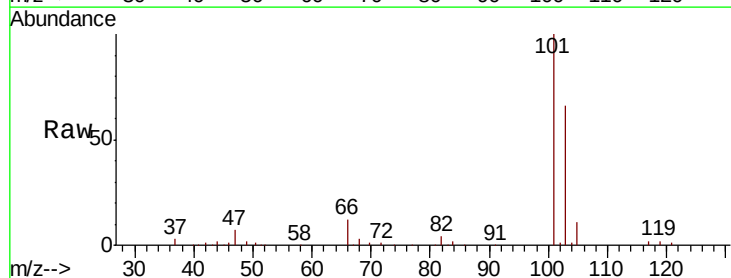
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

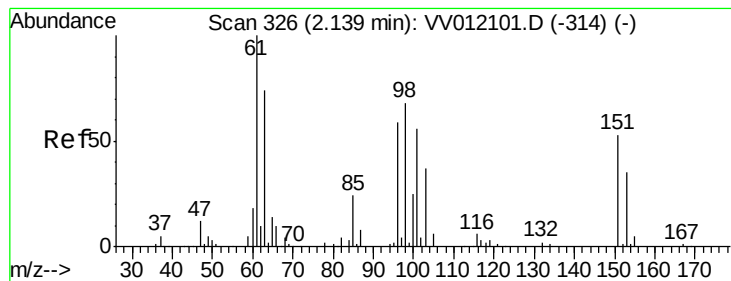
Tgt Ion: 64 Resp: 26309
Ion Ratio Lower Upper
64 100
66 32.6 22.8 42.4



#9
Trichlorofluoromethane
Concen: 22.178 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 101 Resp: 87886
Ion Ratio Lower Upper
101 100
103 66.2 46.3 86.1





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 20.158 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

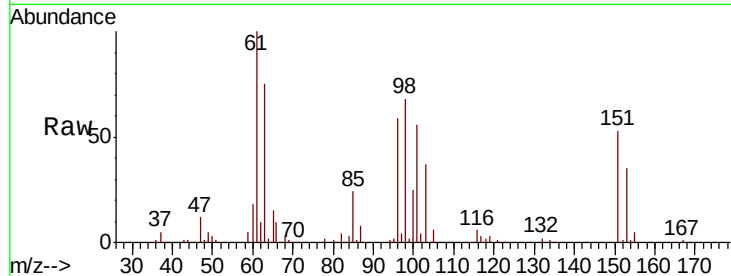
Tgt Ion:101 Resp: 42563

Ion Ratio Lower Upper

101 100

85 43.7 35.0 52.4

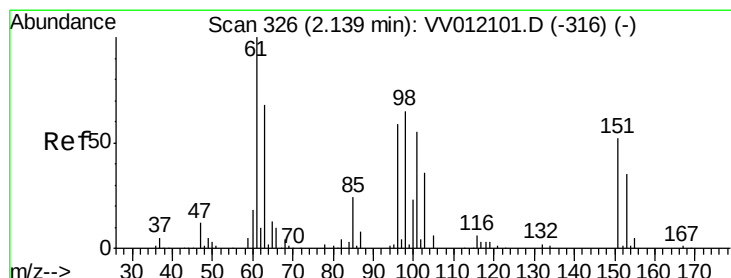
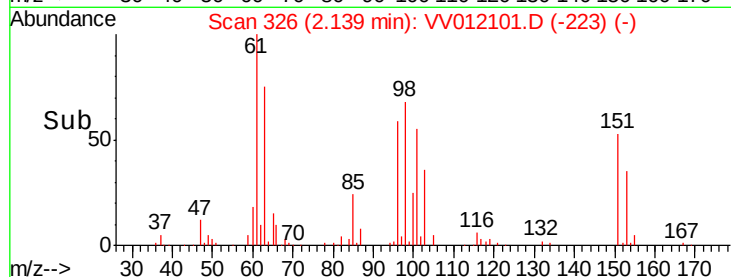
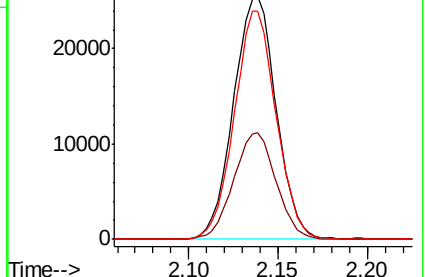
151 92.0 73.6 110.4



Abundance Ion 101.00 (100.70 to 101.70): VV012101.D (-223) (-)

Ion 85.00 (84.70 to 85.70): VV012101.D (-223) (-)

Ion 151.00 (150.70 to 151.70): VV012101.D (-223) (-)



#12

1,1-Dichloroethene

Concen: 19.332 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

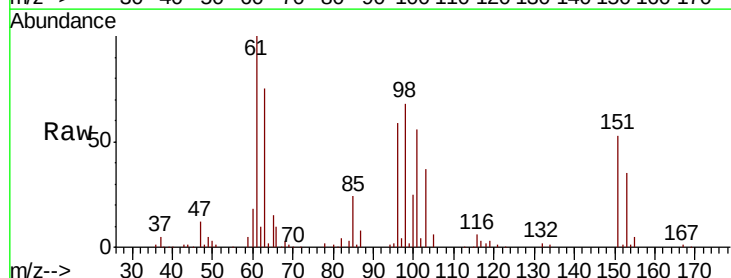
Tgt Ion: 96 Resp: 37447

Ion Ratio Lower Upper

96 100

61 170.8 119.6 222.0

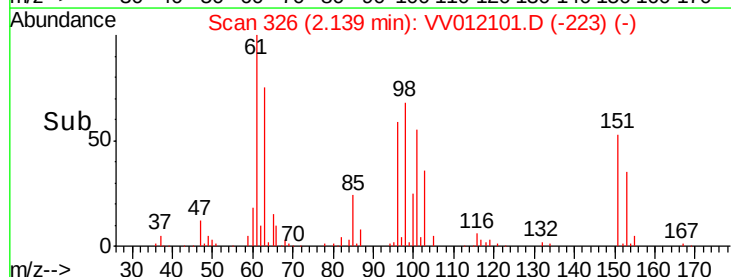
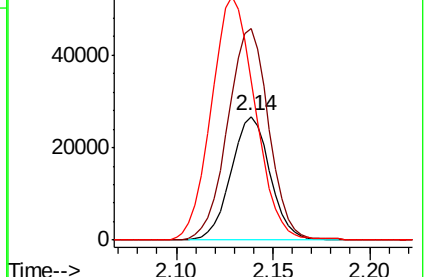
63 128.8 90.2 167.4

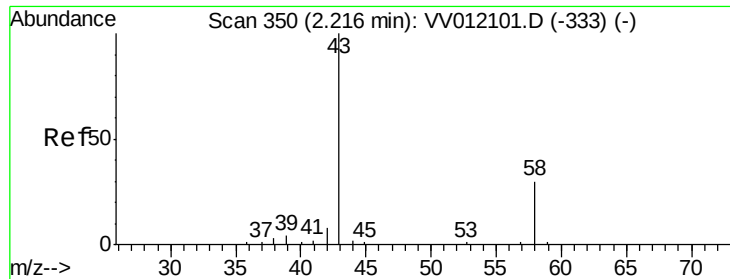


Abundance Ion 96.00 (95.70 to 96.70): VV012101.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV012101.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV012101.D (-223) (-)





#13

Acetone

Concen: 57.557 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

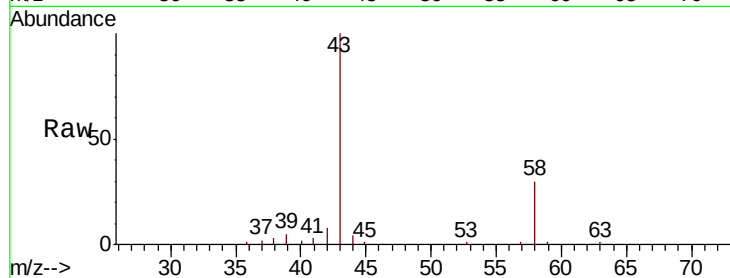
VSTD02563

Tgt Ion: 43 Resp: 61259

Ion Ratio Lower Upper

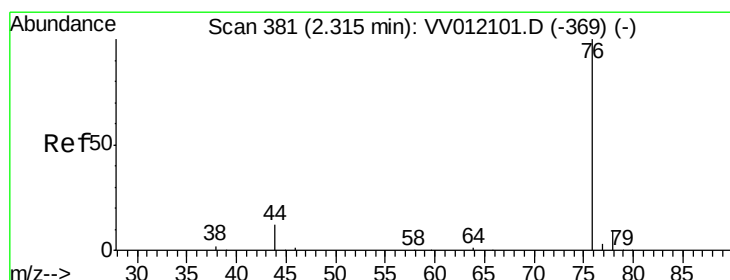
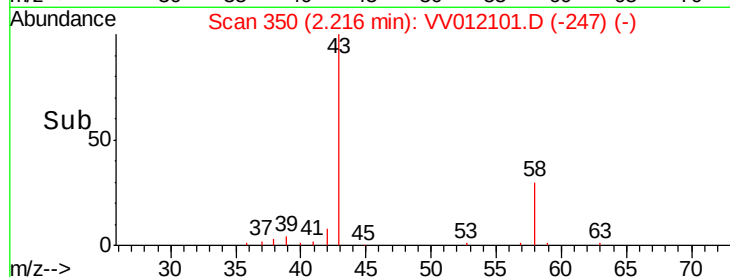
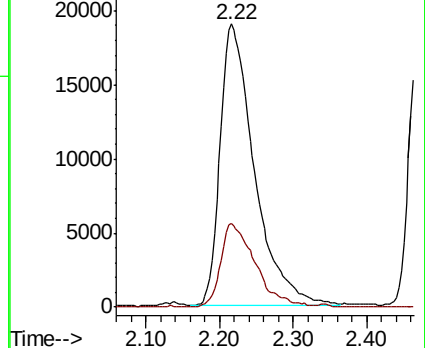
43 100

58 29.9 0.0 59.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 24.592 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012101.D

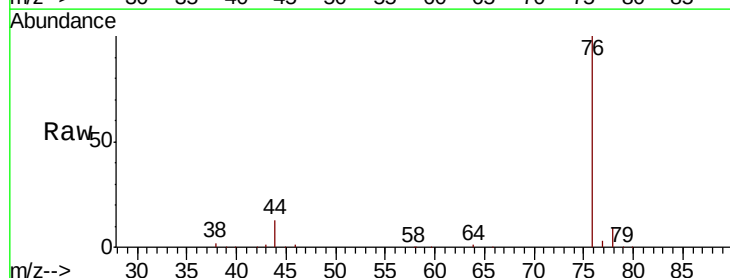
Acq: 03 Aug 2019 10:32

Tgt Ion: 76 Resp: 160458

Ion Ratio Lower Upper

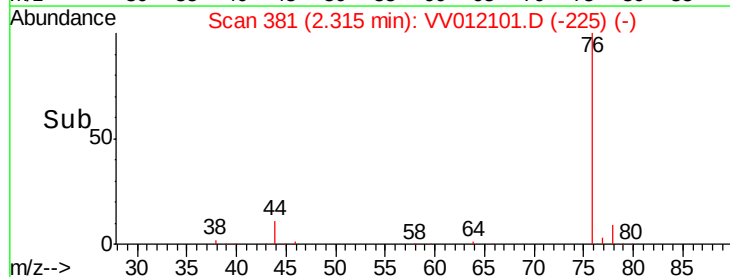
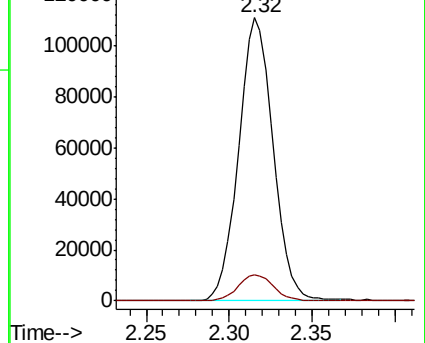
76 100

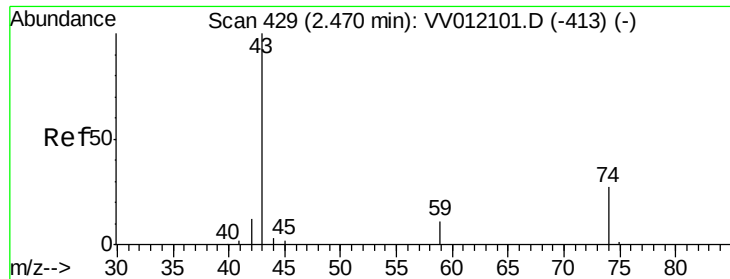
78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

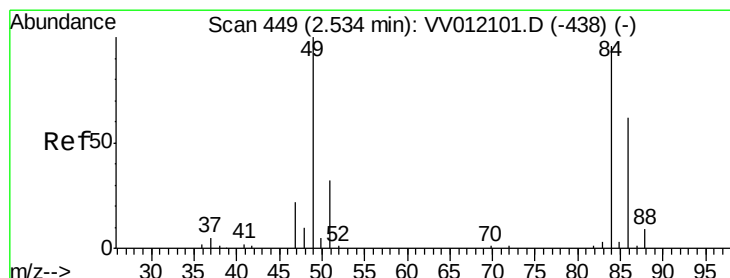
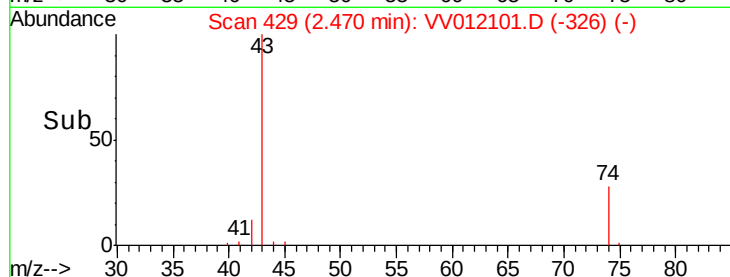
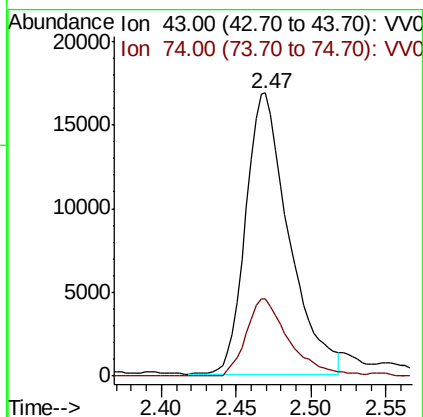
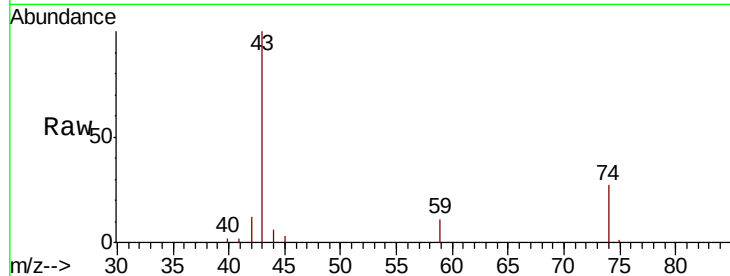




#15
Methyl Acetate
Concen: 21.993 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

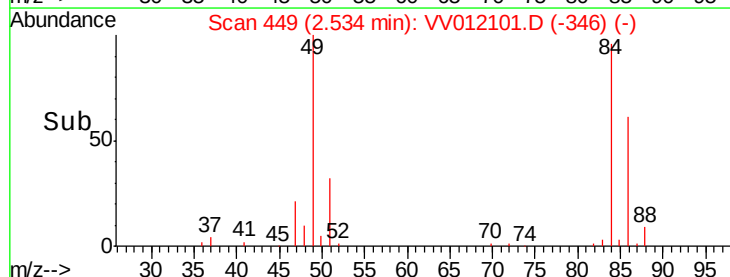
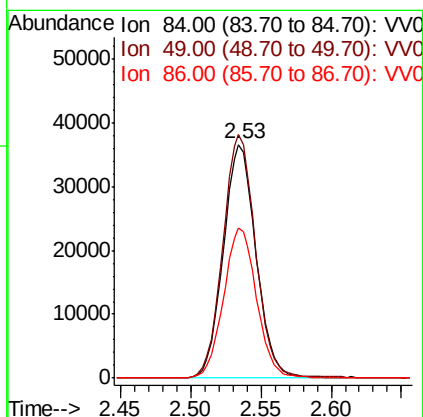
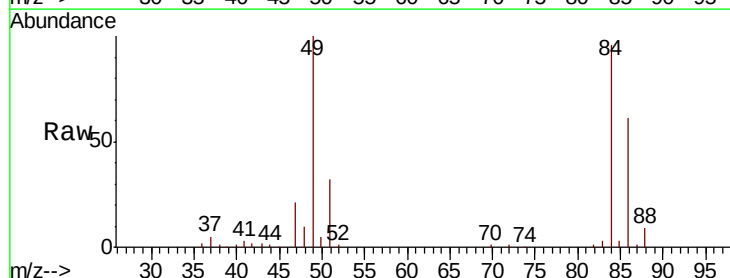
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

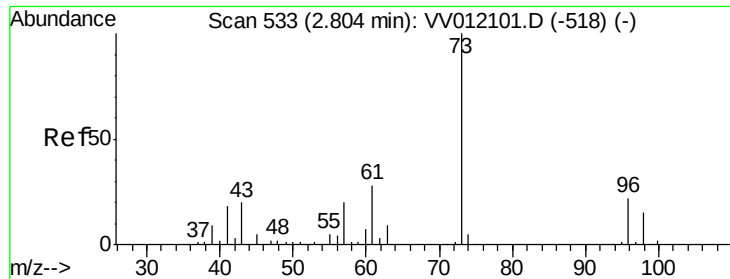
Tgt Ion: 43 Resp: 33635
Ion Ratio Lower Upper
43 100
74 27.4 21.9 32.9



#16
Methylene chloride
Concen: 21.812 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 84 Resp: 59269
Ion Ratio Lower Upper
84 100
49 104.3 73.0 135.6
86 64.1 44.9 83.3

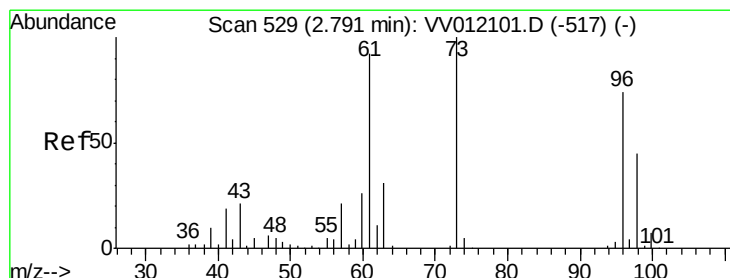
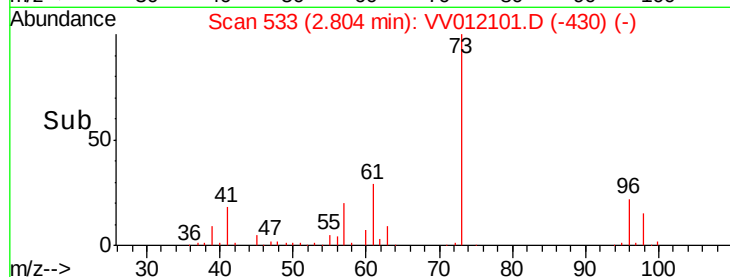
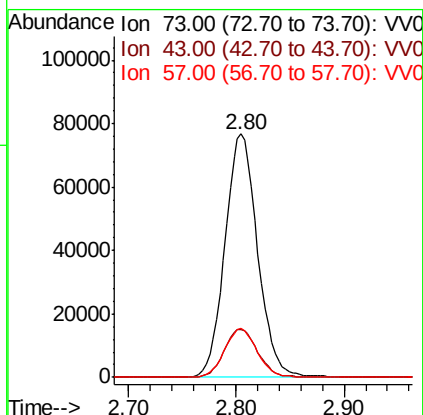
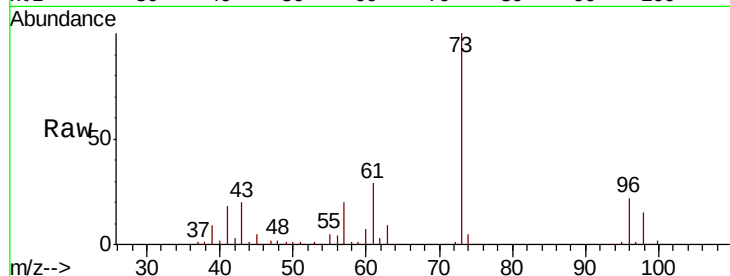




#17
Methyl tert-butyl Ether
Concen: 23.223 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

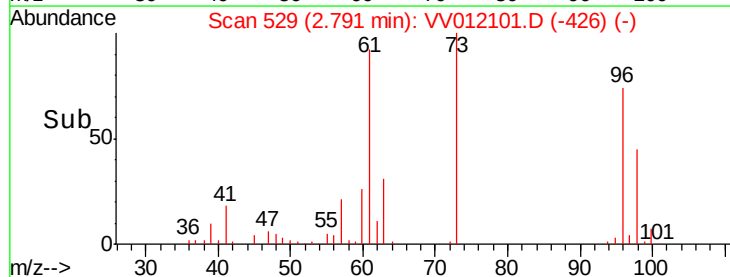
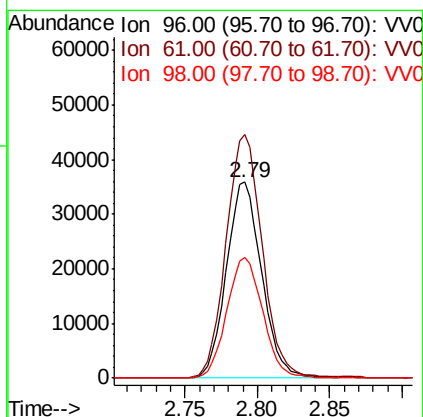
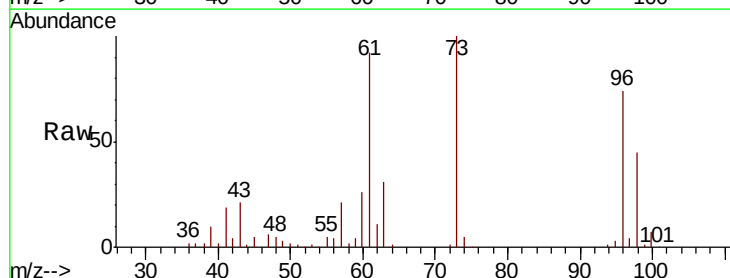
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

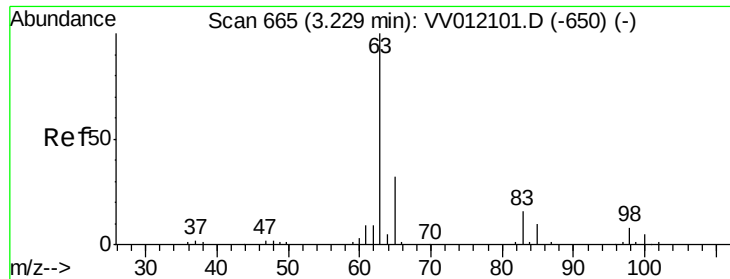
Tgt Ion: 73 Resp: 161526
Ion Ratio Lower Upper
73 100
43 20.5 16.4 24.6
57 19.9 15.9 23.9



#18
trans-1,2-Dichloroethene
Concen: 24.423 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 96 Resp: 60411
Ion Ratio Lower Upper
96 100
61 124.2 86.9 161.5
98 61.3 42.9 79.7

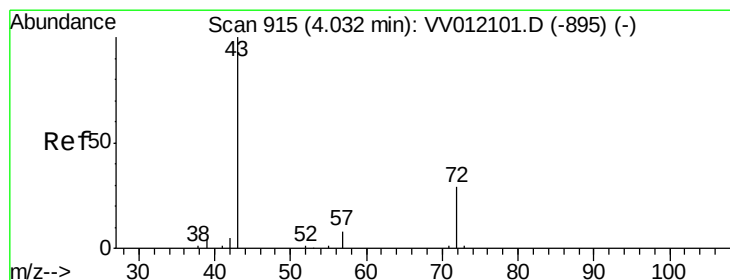
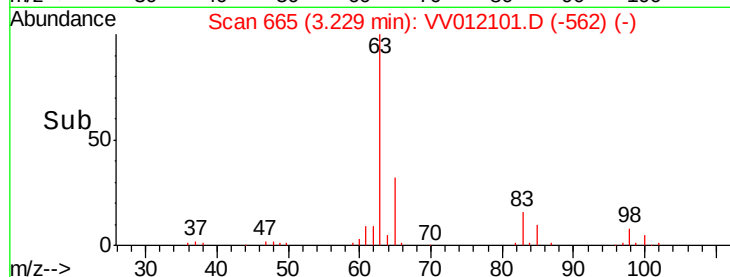
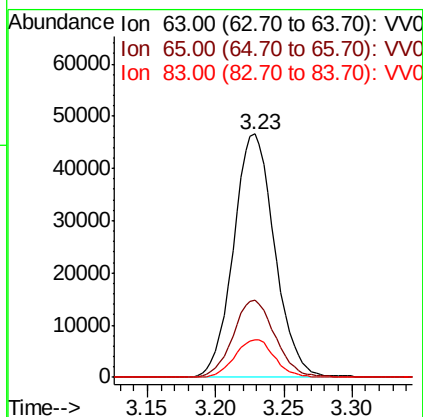
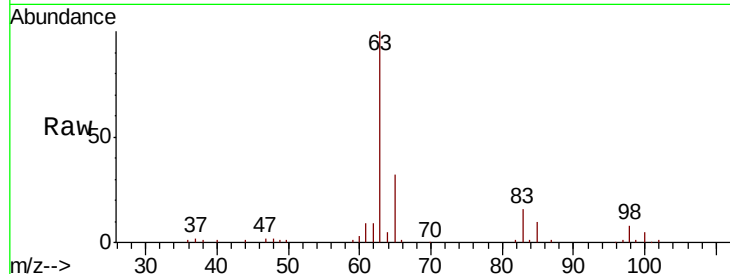




#19
 1,1-Dichloroethane
 Concen: 21.043 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

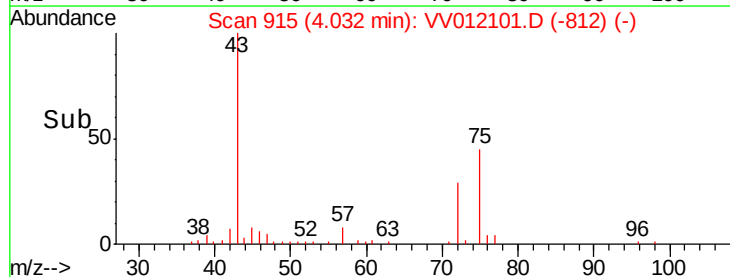
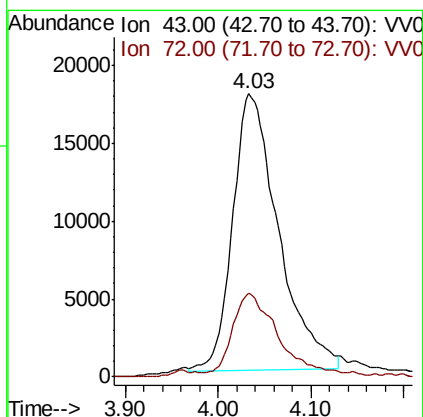
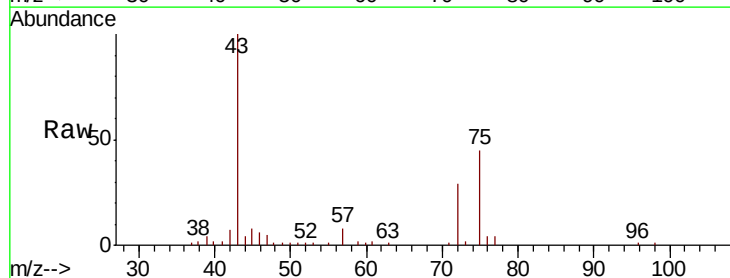
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

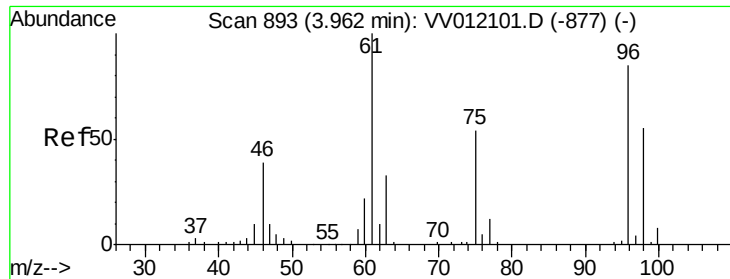
Tgt Ion: 63 Resp: 97554
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.1 41.1
 83 15.5 10.9 20.2



#21
 2-Butanone
 Concen: 50.203 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion: 43 Resp: 60837
 Ion Ratio Lower Upper
 43 100
 72 27.2 13.6 40.8



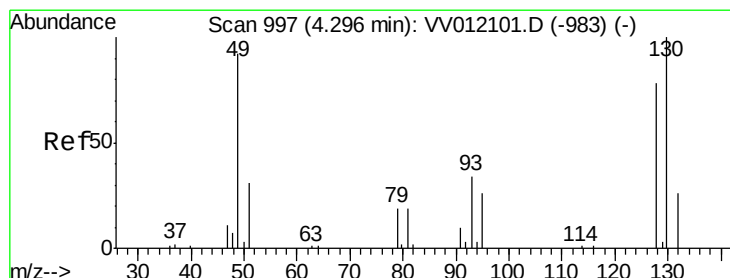
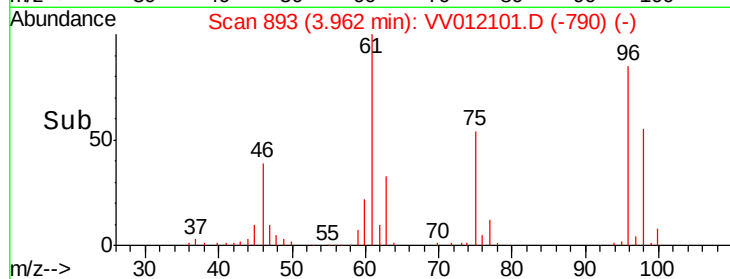
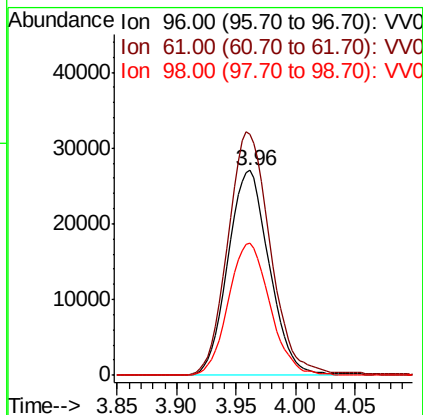
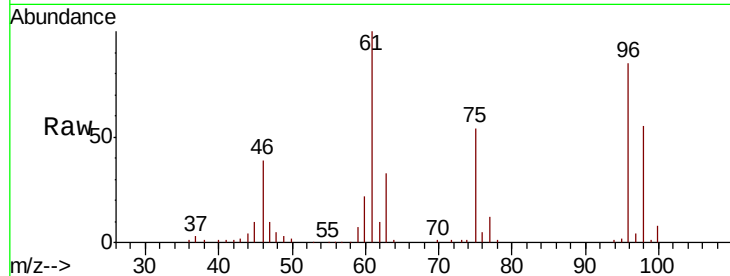


#22

cis-1,2-Dichloroethene
 Concen: 23.818 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

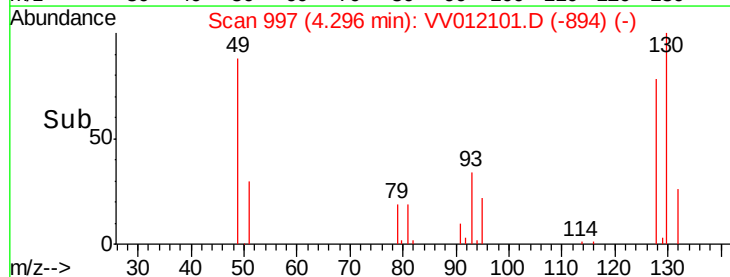
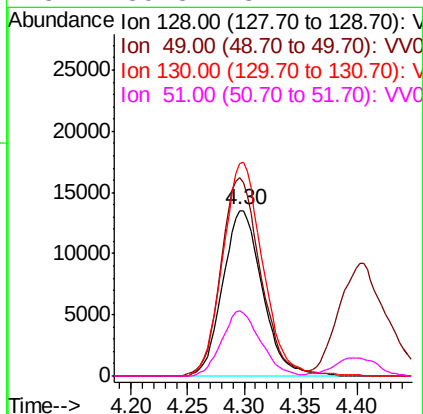
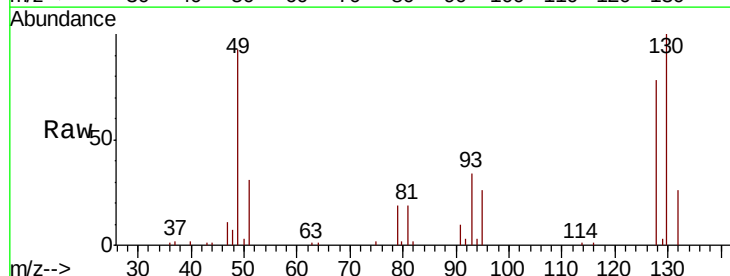
Tgt Ion: 96 Resp: 65225
 Ion Ratio Lower Upper
 96 100
 61 117.7 82.4 153.0
 98 64.7 45.3 84.1

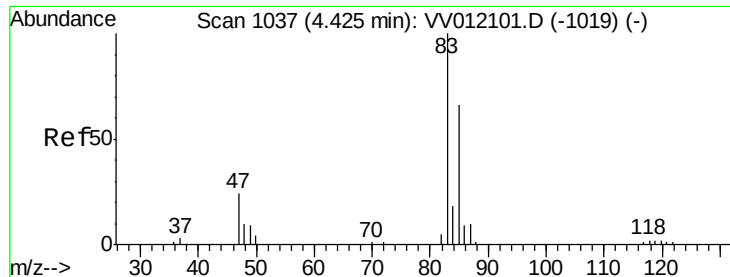


#23

Bromochloromethane
 Concen: 26.698 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion: 128 Resp: 33039
 Ion Ratio Lower Upper
 128 100
 49 119.8 83.9 155.7
 130 128.6 90.0 167.2
 51 39.3 31.4 47.2

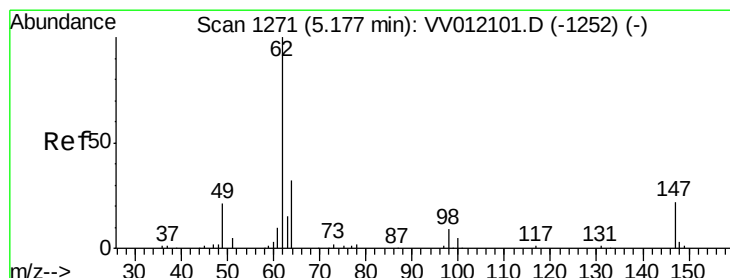
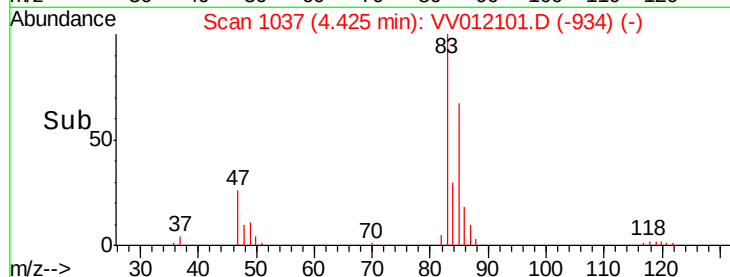
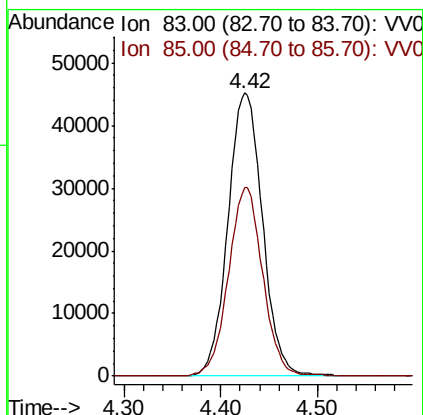
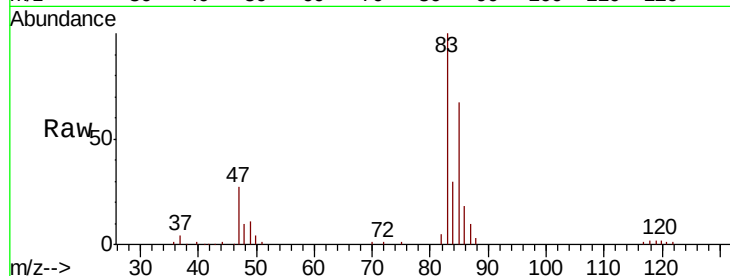




#25
Chloroform
Concen: 22.354 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

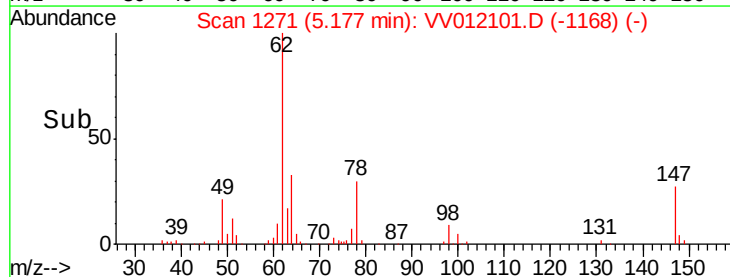
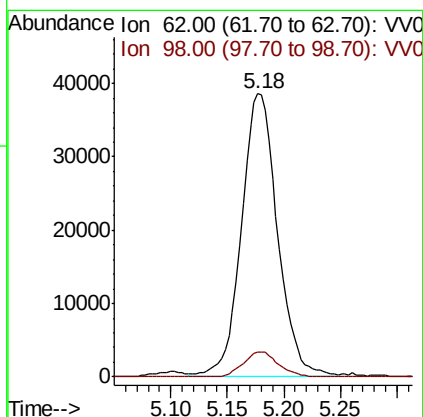
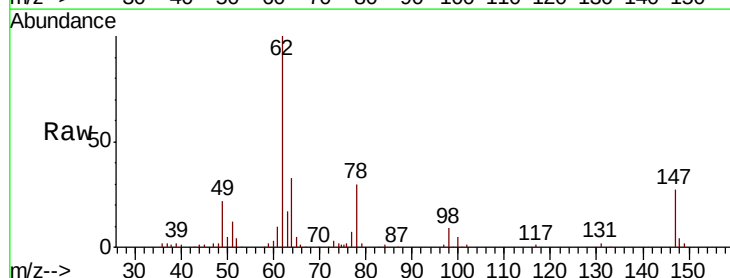
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

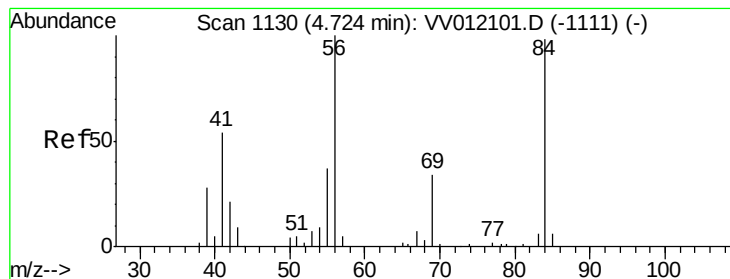
Tgt Ion: 83 Resp: 112128
Ion Ratio Lower Upper
83 100
85 66.0 46.2 85.8



#27
1,2-Dichloroethane
Concen: 24.162 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 62 Resp: 85928
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4





#30

Cyclohexane

Concen: 19.681 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

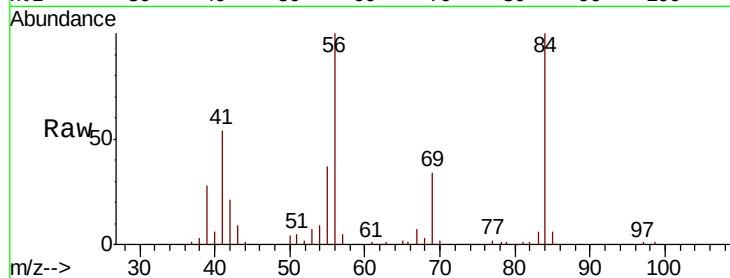
Tgt Ion: 56 Resp: 86305

Ion Ratio Lower Upper

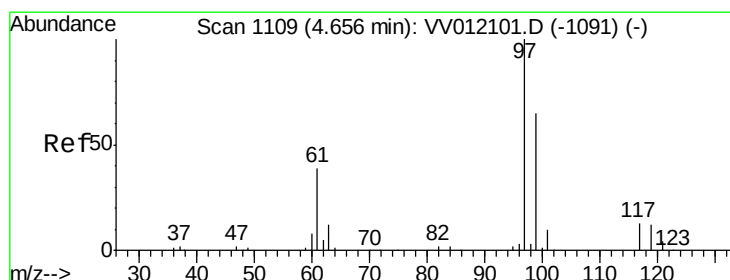
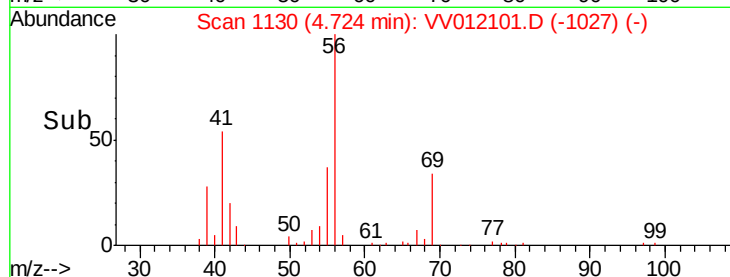
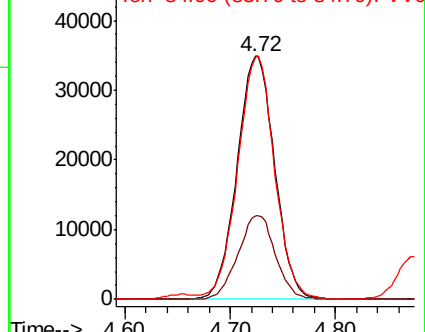
56 100

69 34.2 27.4 41.0

84 98.3 78.6 118.0



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 27.168 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

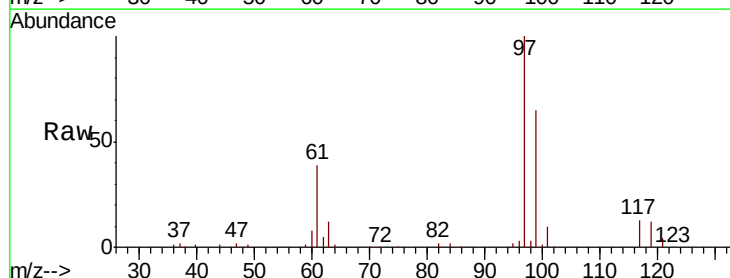
Tgt Ion: 97 Resp: 109250

Ion Ratio Lower Upper

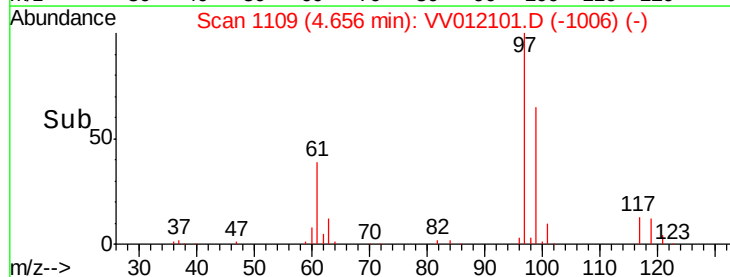
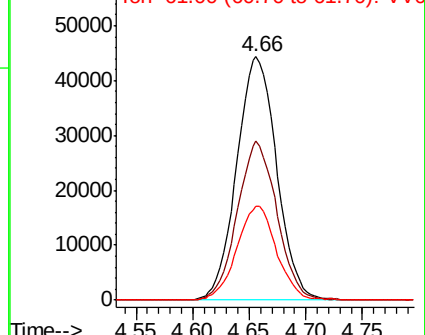
97 100

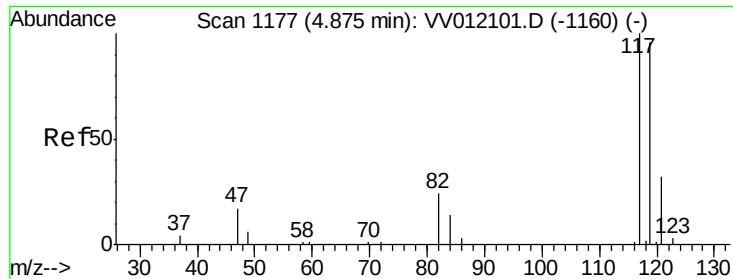
99 64.5 51.6 77.4

61 38.3 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 29.434 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

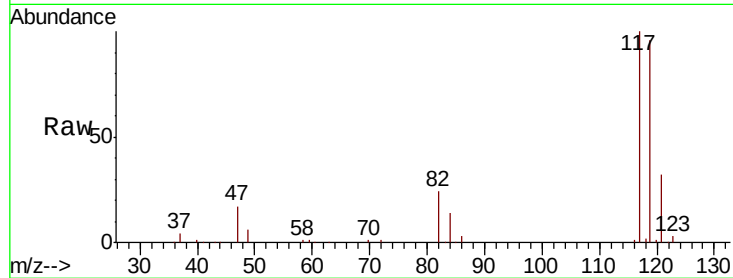
VSTD02563

Tgt Ion:117 Resp: 102852

Ion Ratio Lower Upper

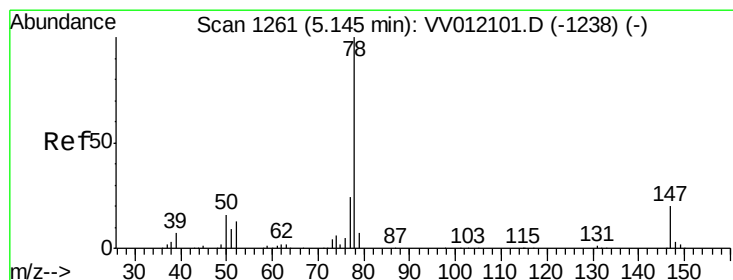
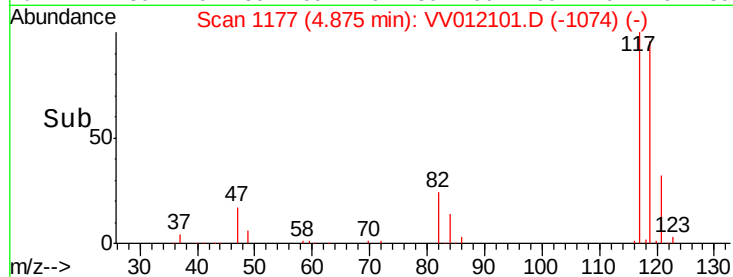
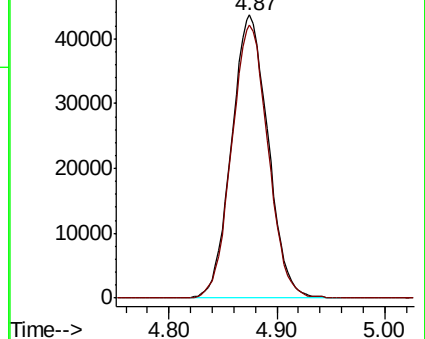
117 100

119 96.1 76.9 115.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 22.885 ug/L

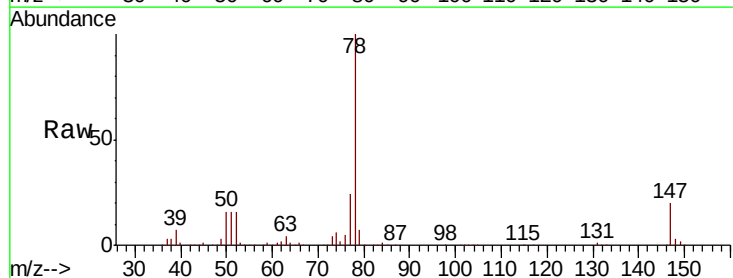
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

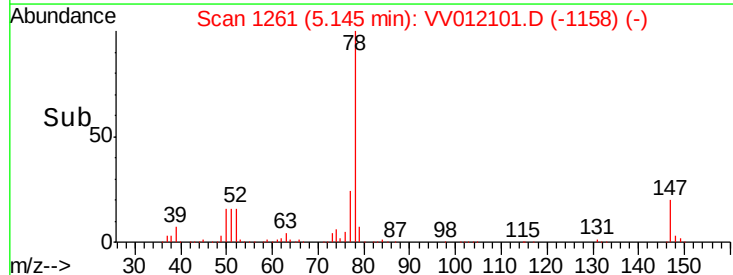
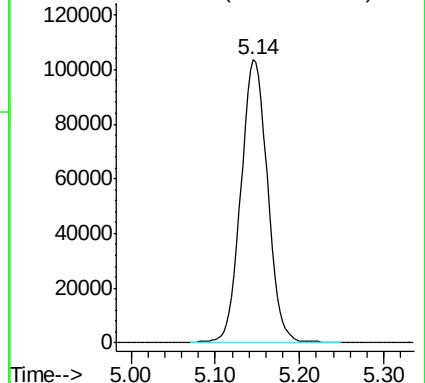
Lab File: VV012101.D

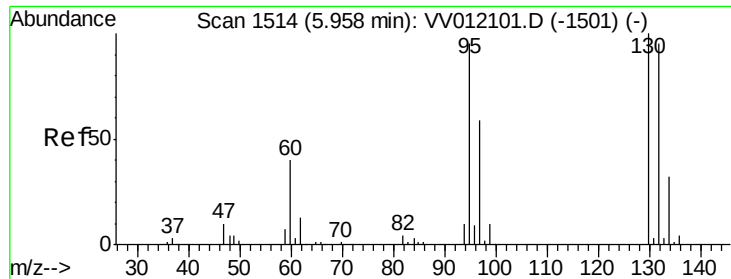
Acq: 03 Aug 2019 10:32

Tgt Ion: 78 Resp: 227861



Abundance Ion 78.00 (77.70 to 78.70): VV0

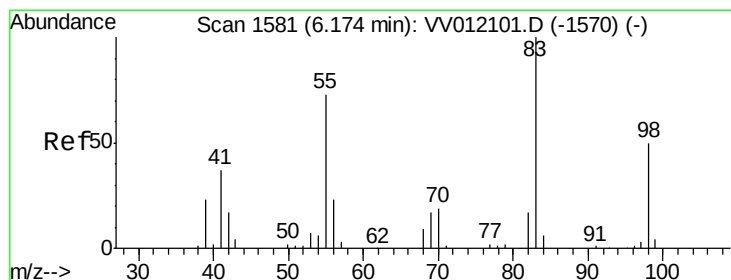
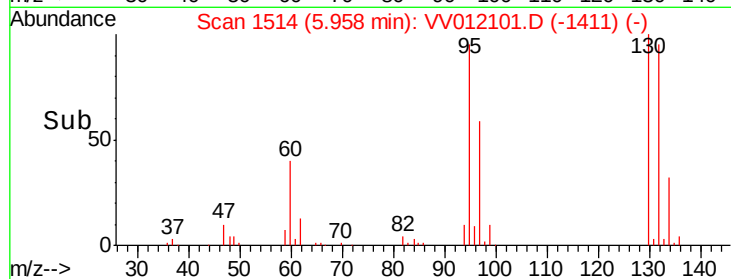
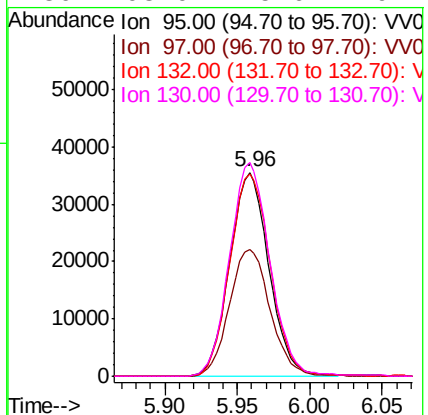
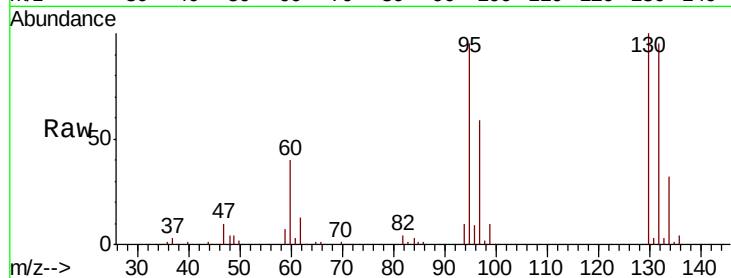




#35
 Trichloroethene
 Concen: 24.985 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

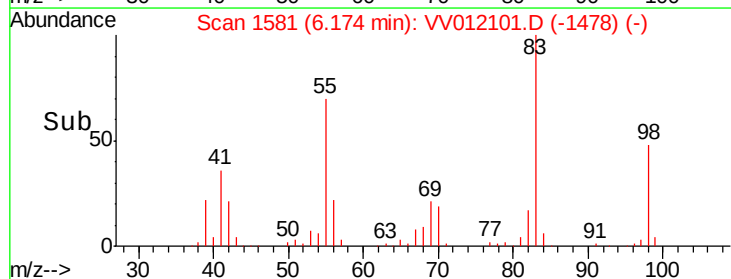
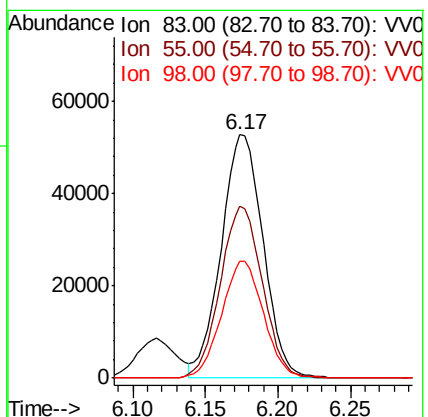
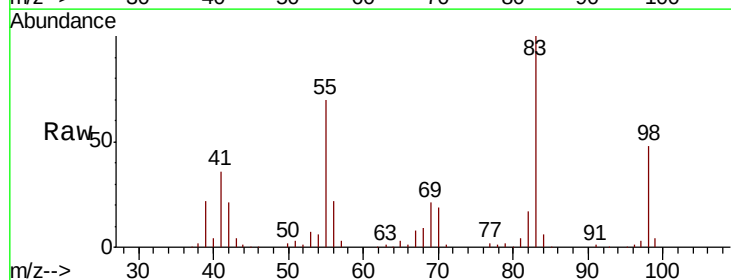
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02563

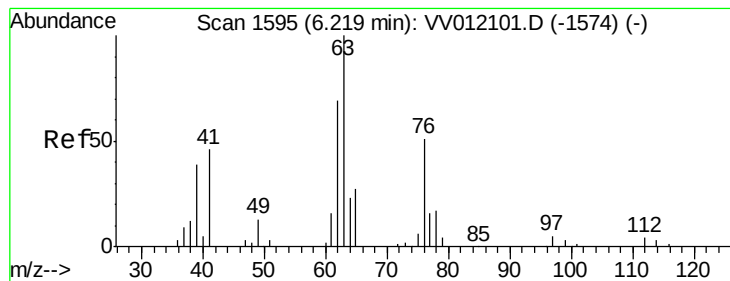
Tgt Ion: 95 Resp: 66755
 Ion Ratio Lower Upper
 95 100
 97 64.8 45.4 84.2
 132 102.6 71.8 133.4
 130 108.0 75.6 140.4



#36
 Methylcyclohexane
 Concen: 23.660 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion: 83 Resp: 105999
 Ion Ratio Lower Upper
 83 100
 55 70.2 56.2 84.2
 98 47.3 37.8 56.8





#40

1,2-Dichloropropane

Concen: 20.148 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

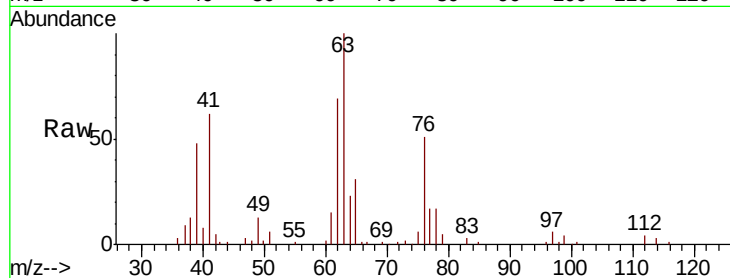
VSTD02563

Tgt Ion: 63 Resp: 51858

Ion Ratio Lower Upper

63 100

112 4.9 3.9 5.9

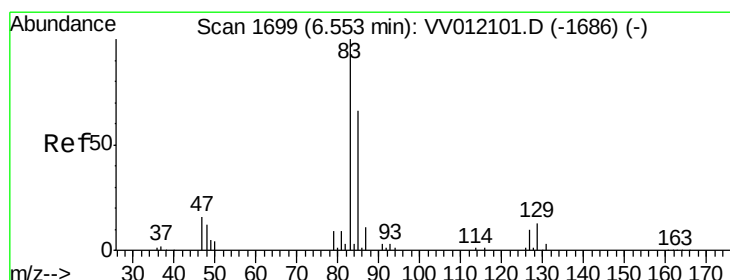
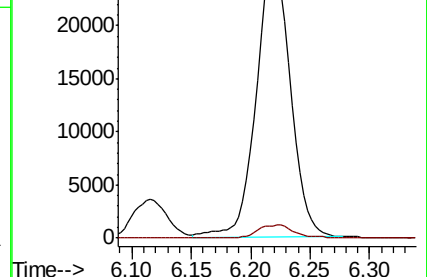
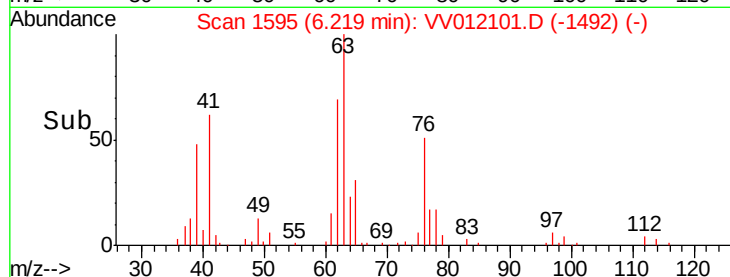


Abundance Ion 63.00 (62.70 to 63.70): VV012101.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV012101.D (-1574) (-)

6.22

Time-->



#41

Bromodichloromethane

Concen: 24.380 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

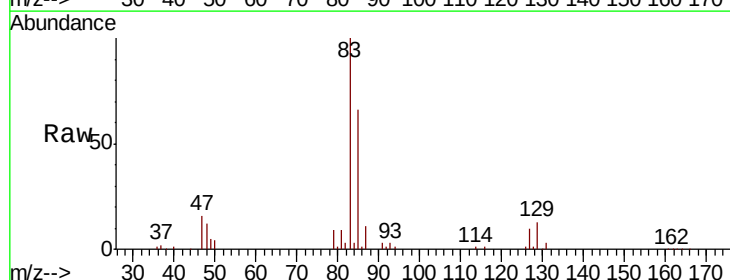
Tgt Ion: 83 Resp: 84458

Ion Ratio Lower Upper

83 100

85 66.4 46.5 86.3

127 9.9 7.9 11.9



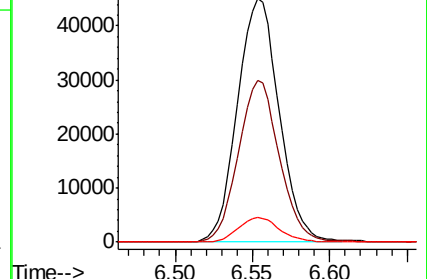
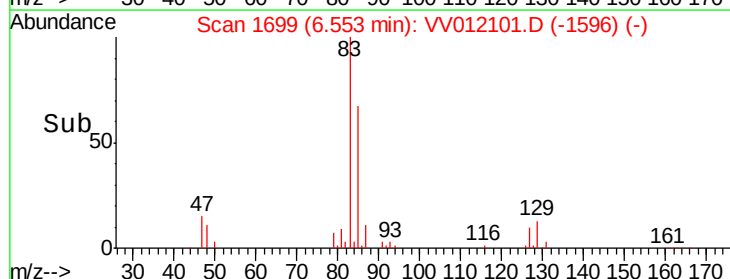
Abundance Ion 83.00 (82.70 to 83.70): VV012101.D (-1686) (-)

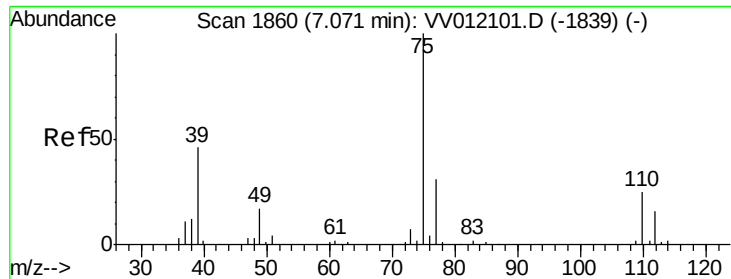
Ion 85.00 (84.70 to 85.70): VV012101.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV012101.D (-1686) (-)

6.55

Time-->



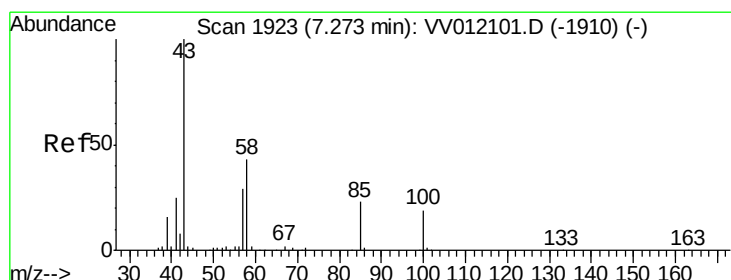
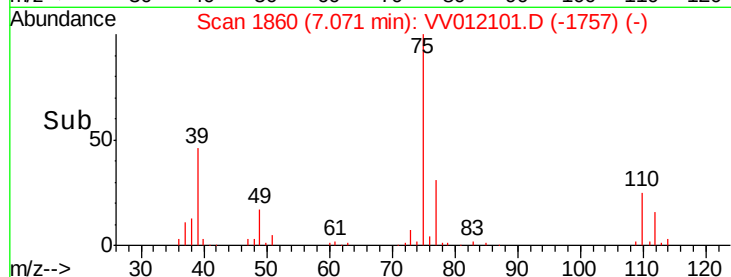
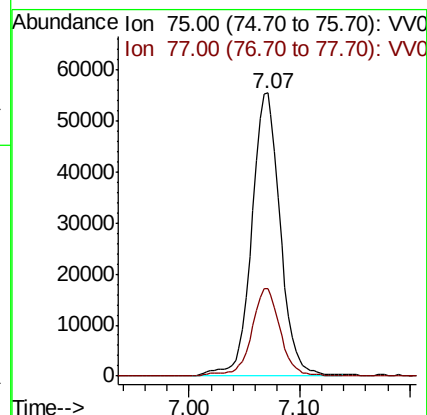
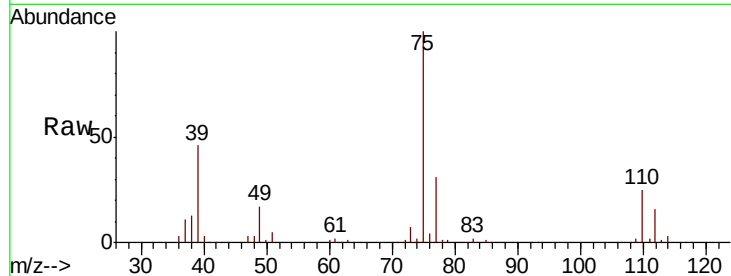


#42

cis-1,3-Dichloropropene
 Concen: 23.742 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

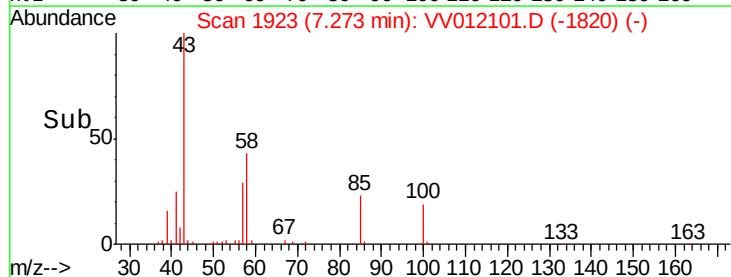
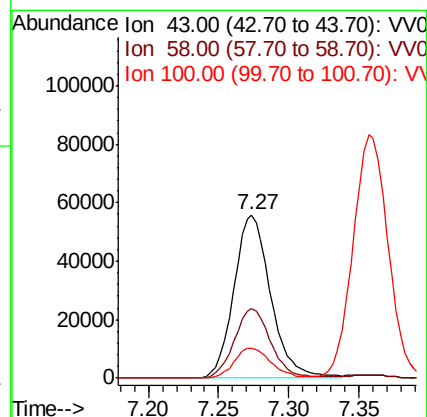
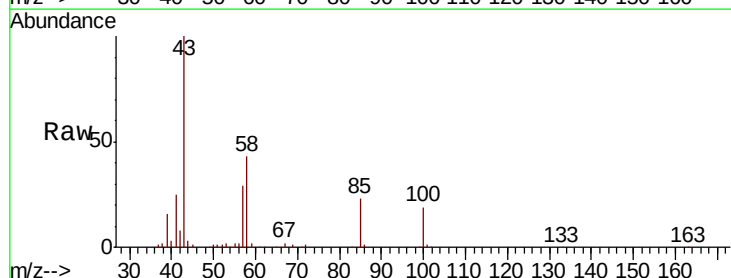
Tgt Ion: 75 Resp: 99082
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.7 40.3

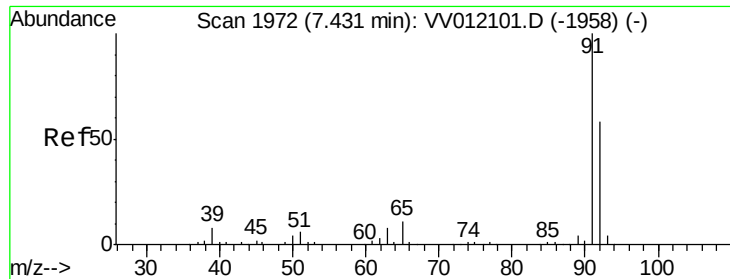


#43

4-Methyl-2-pentanone
 Concen: 43.474 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion: 43 Resp: 102183
 Ion Ratio Lower Upper
 43 100
 58 42.4 33.9 50.9
 100 18.6 14.9 22.3

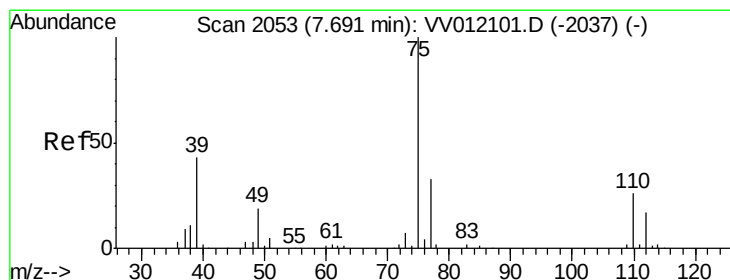
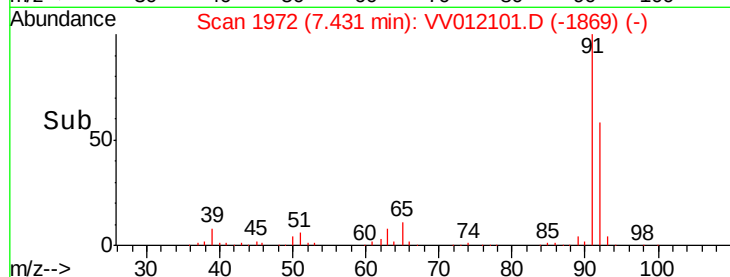
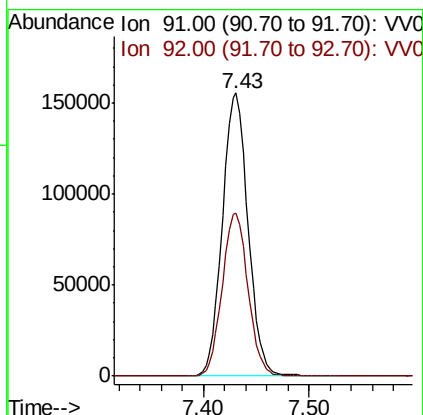
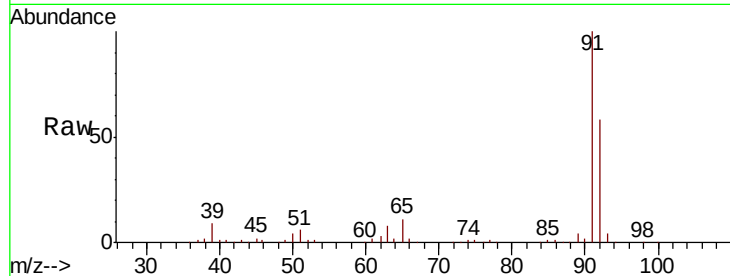




#44
Toluene
Concen: 23.911 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

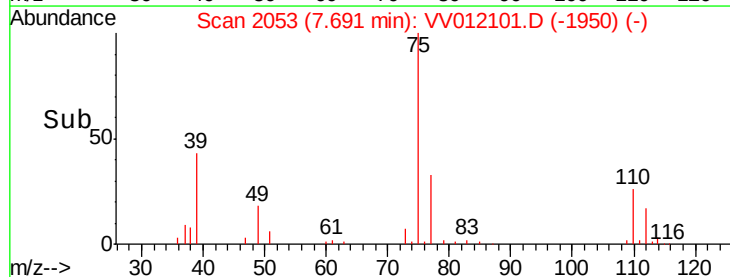
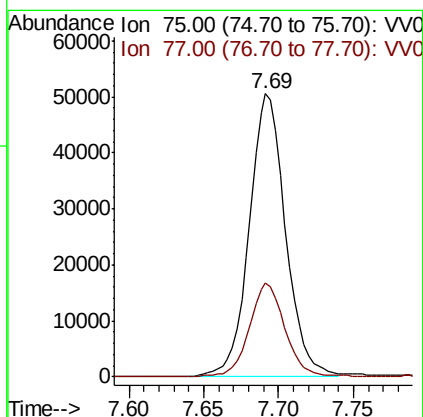
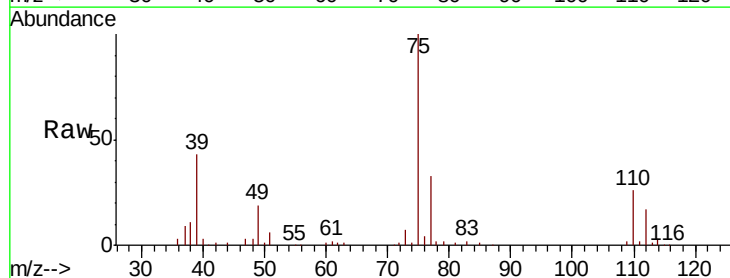
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

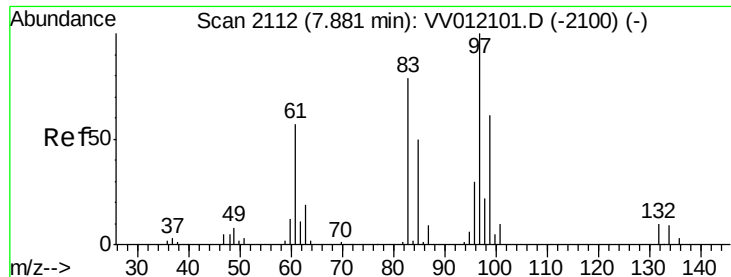
Tgt Ion: 91 Resp: 262457
Ion Ratio Lower Upper
91 100
92 57.7 40.4 75.0



#45
trans-1,3-Dichloropropene
Concen: 23.906 ug/L
RT: 7.69 min Scan# 2053
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 75 Resp: 85404
Ion Ratio Lower Upper
75 100
77 33.3 23.3 43.3

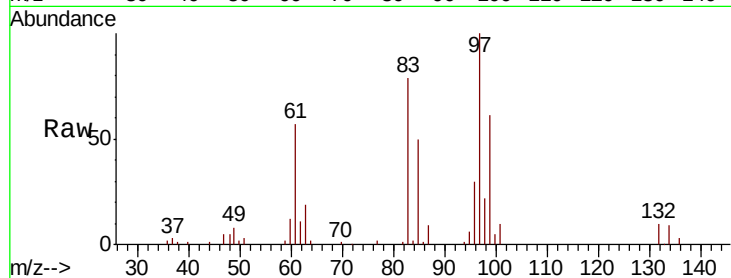




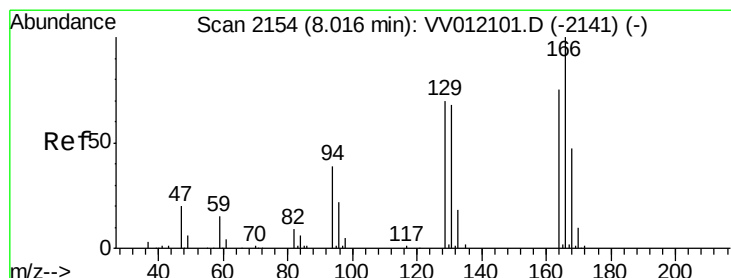
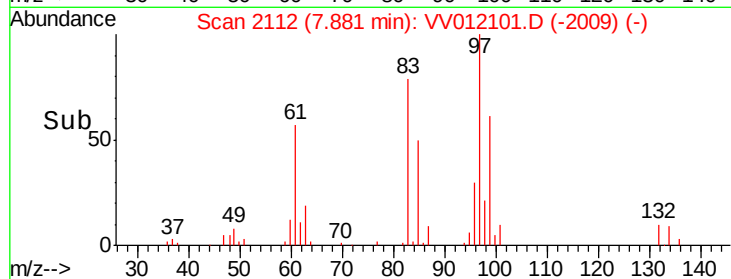
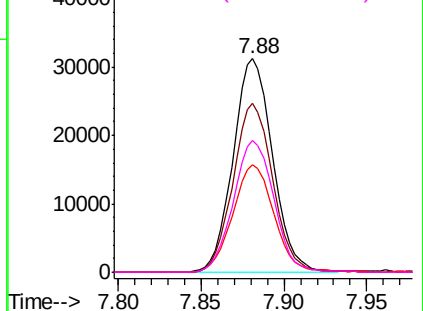
#46
 1,1,2-Trichloroethane
 Concen: 24.883 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Tgt Ion:	97	Resp:	51762
Ion	Ratio	Lower	Upper
97	100		
83	78.9	55.2	102.6
85	50.5	35.4	65.7
99	61.5	43.0	80.0

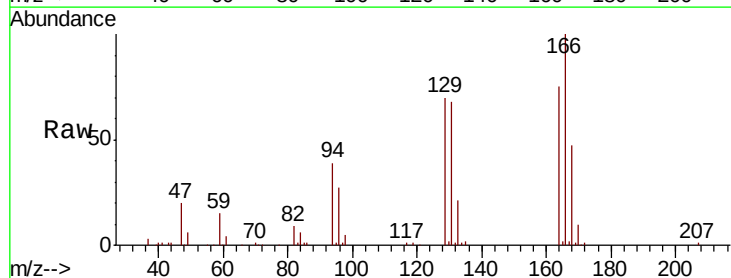


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0

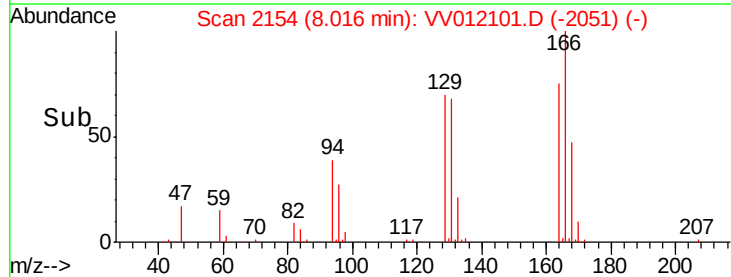
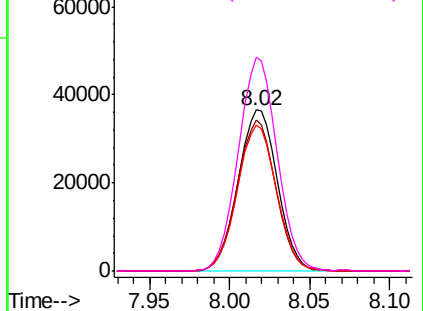


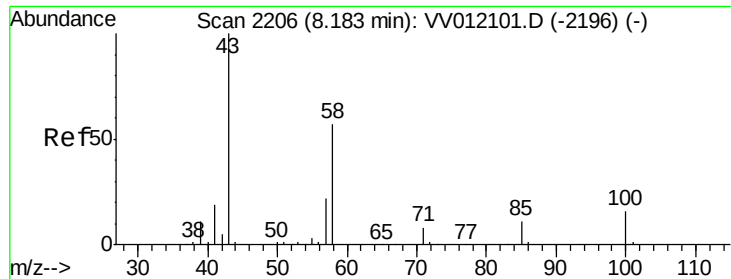
#47
 Tetrachloroethene
 Concen: 29.372 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion:	164	Resp:	61165
Ion	Ratio	Lower	Upper
164	100		
129	93.5	65.5	121.6
131	90.3	63.2	117.4
166	132.7	92.9	172.5



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

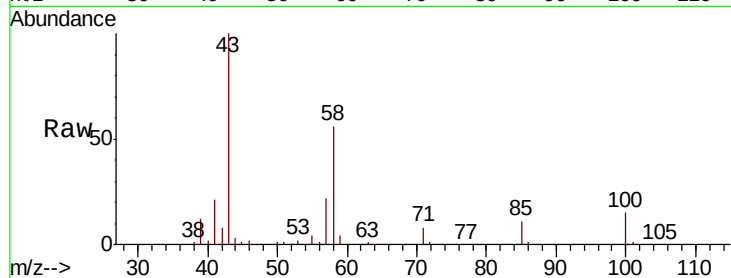




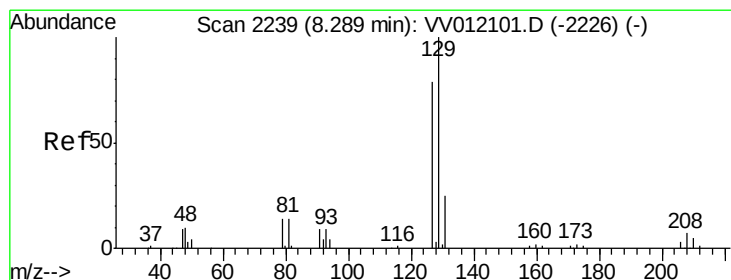
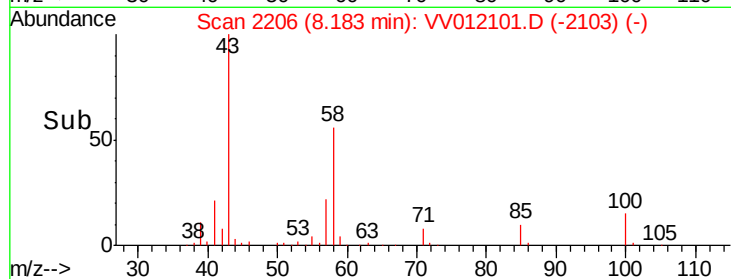
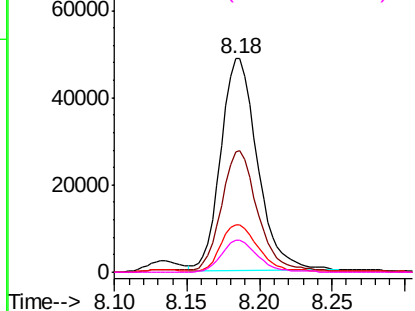
#49
2-Hexanone
Concen: 49.692 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

Tgt Ion: 43 Resp: 85868
Ion Ratio Lower Upper
43 100
58 57.1 45.7 68.5
57 22.6 18.1 27.1
100 15.0 12.0 18.0

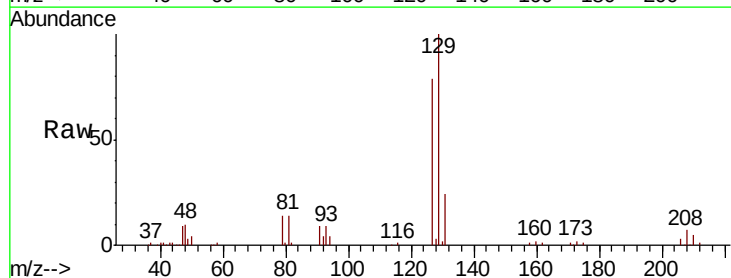


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

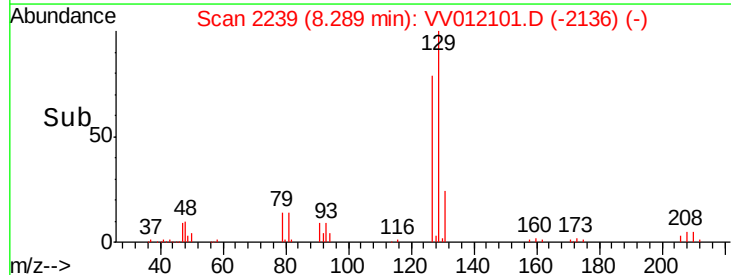
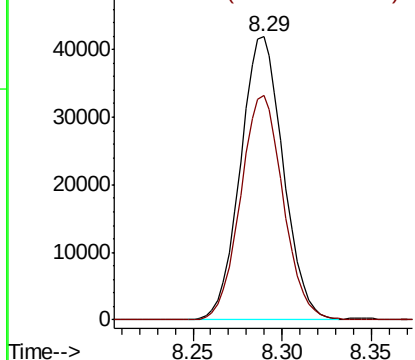


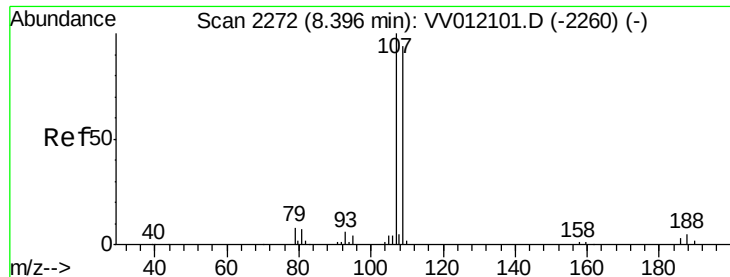
#50
Dibromochloromethane
Concen: 28.841 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012101.D
Acq: 03 Aug 2019 10:32

Tgt Ion: 129 Resp: 70443
Ion Ratio Lower Upper
129 100
127 79.2 55.4 103.0



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 26.943 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

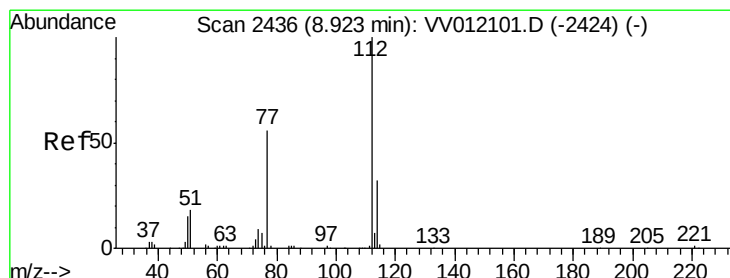
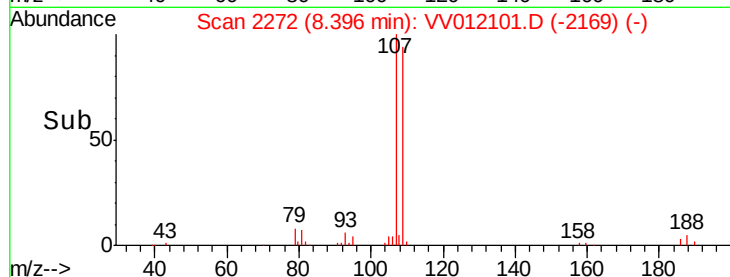
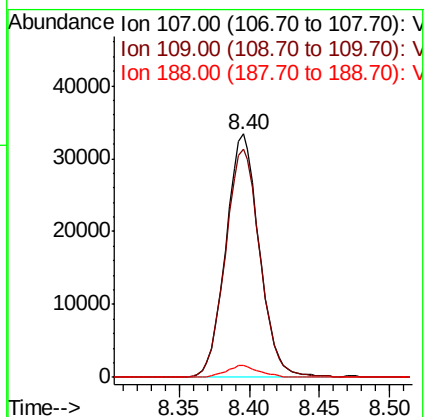
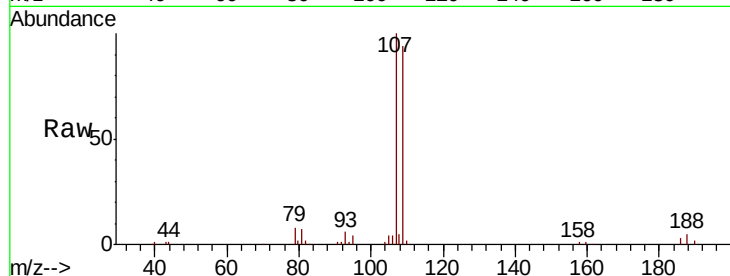
Tgt Ion:107 Resp: 55514

Ion Ratio Lower Upper

107 100

109 93.8 65.7 121.9

188 4.9 3.9 5.9



#52

Chlorobenzene

Concen: 24.577 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

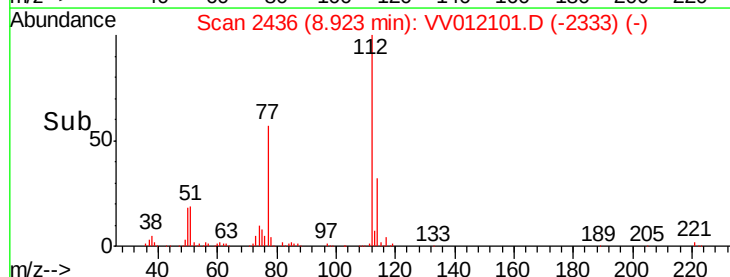
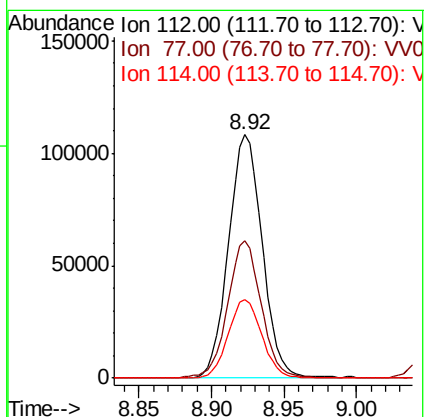
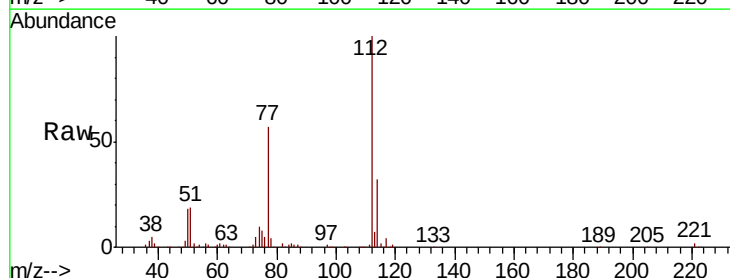
Tgt Ion:112 Resp: 174738

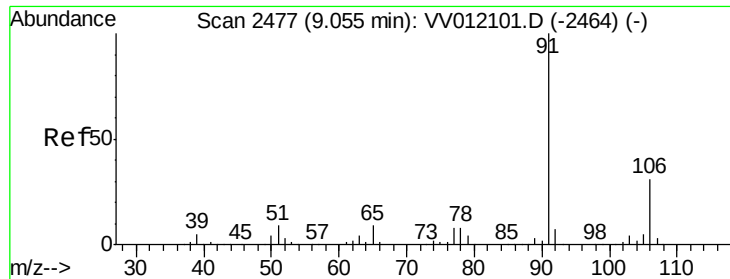
Ion Ratio Lower Upper

112 100

77 56.6 45.3 67.9

114 32.1 22.5 41.7





#53

Ethylbenzene

Concen: 23.750 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

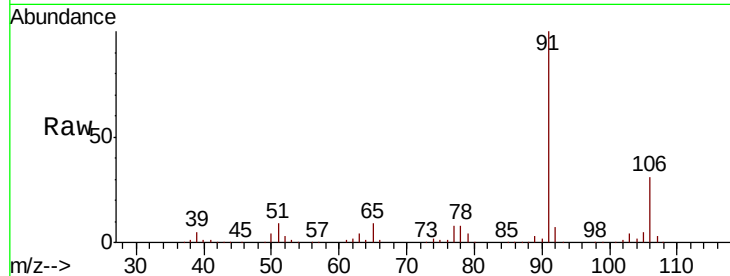
VSTD02563

Tgt Ion: 91 Resp: 298640

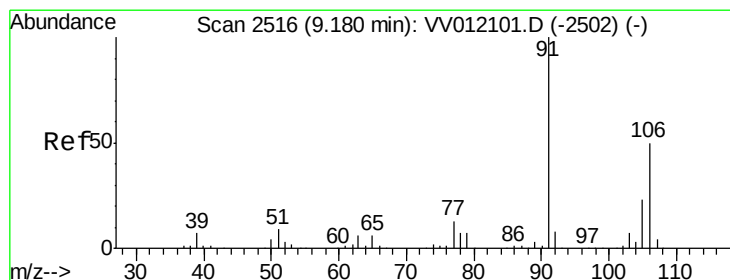
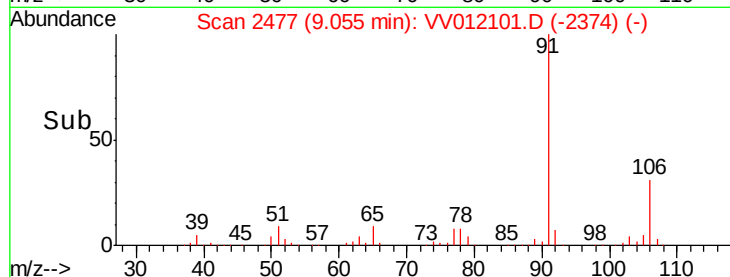
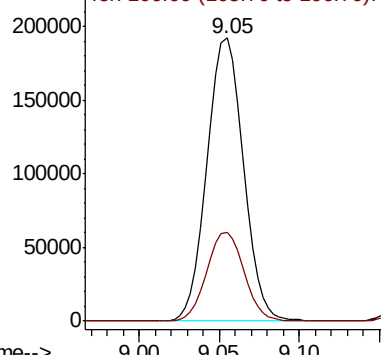
Ion Ratio Lower Upper

91 100

106 31.2 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV012101.D (-2464) (-)



#54

m,p-Xylene

Concen: 24.790 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012101.D

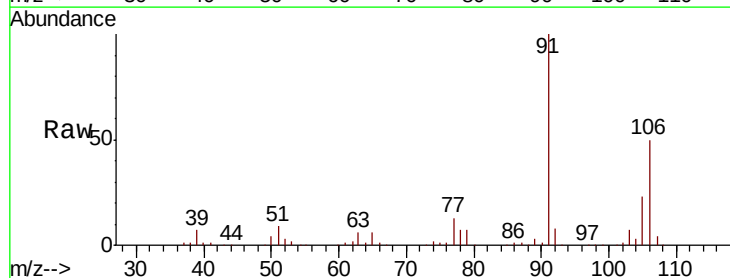
Acq: 03 Aug 2019 10:32

Tgt Ion: 106 Resp: 117349

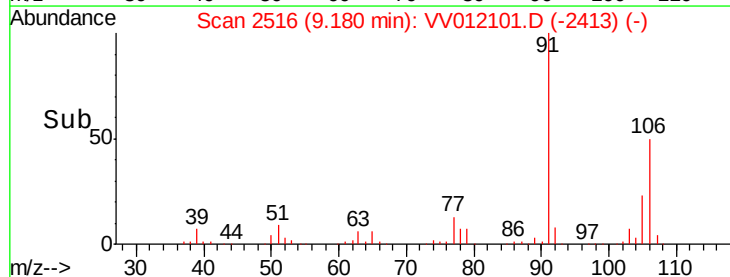
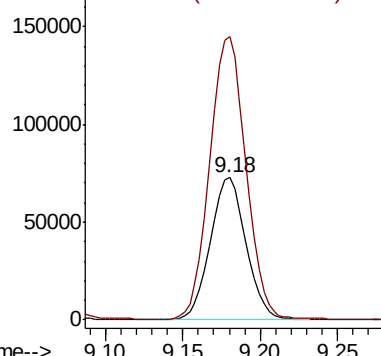
Ion Ratio Lower Upper

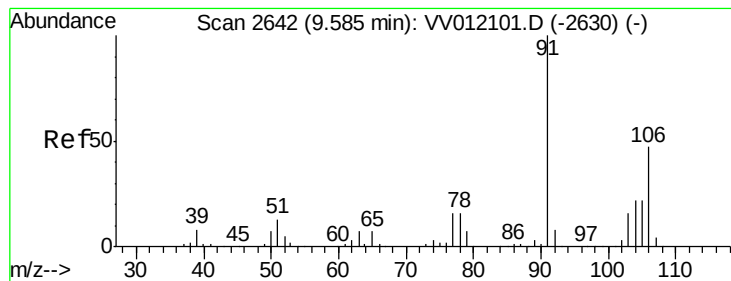
106 100

91 199.4 139.6 259.2



Abundance Ion 106.00 (105.70 to 106.70): VV012101.D (-2502) (-)





#55

o-xylene

Concen: 24.262 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

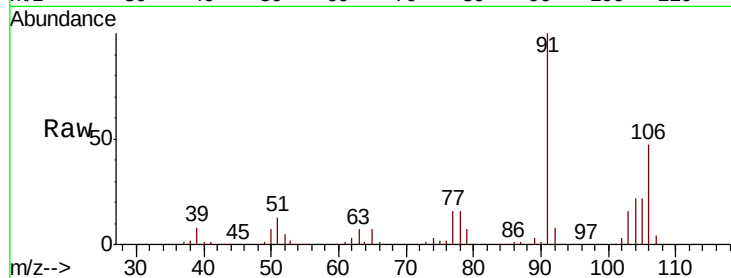
VSTD02563

Tgt Ion:106 Resp: 112327

Ion Ratio Lower Upper

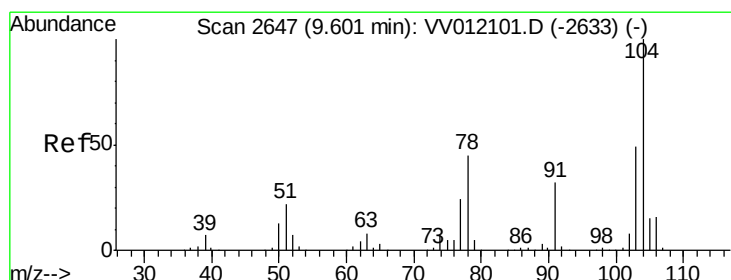
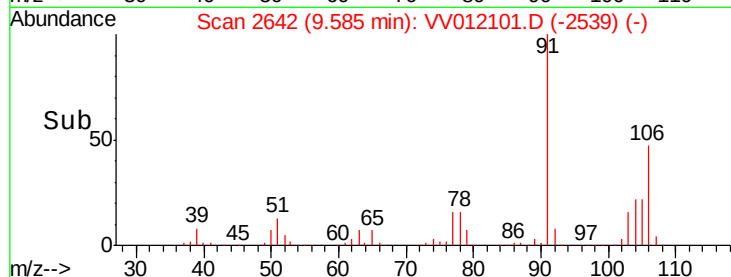
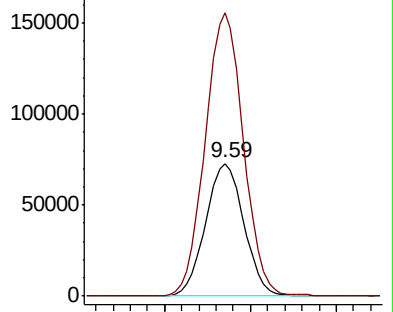
106 100

91 213.4 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.904 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012101.D

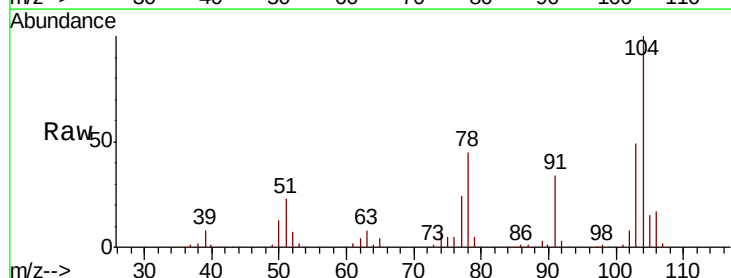
Acq: 03 Aug 2019 10:32

Tgt Ion:104 Resp: 193774

Ion Ratio Lower Upper

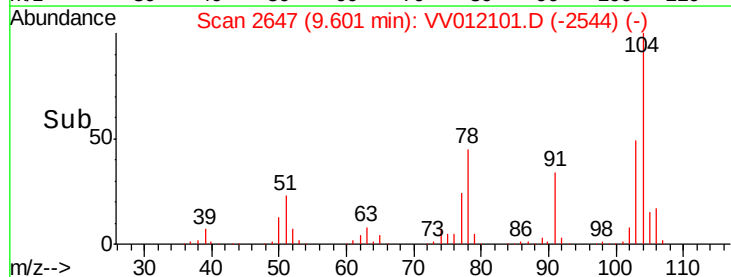
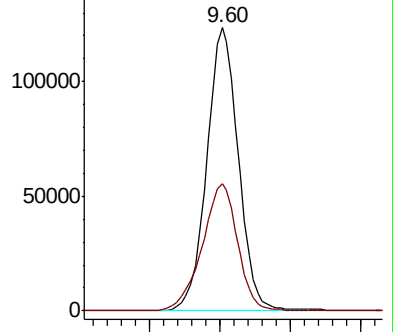
104 100

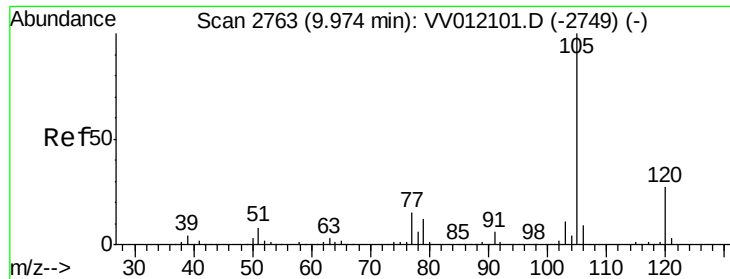
78 44.9 31.4 58.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 24.813 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

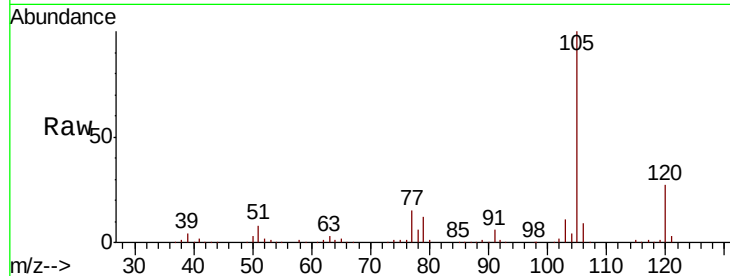
Tgt Ion: 105 Resp: 308118

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.0

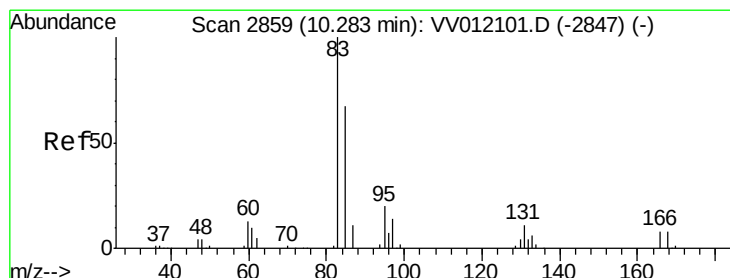
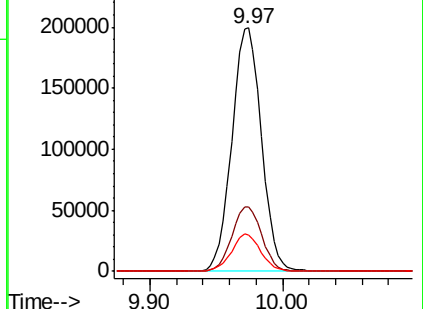
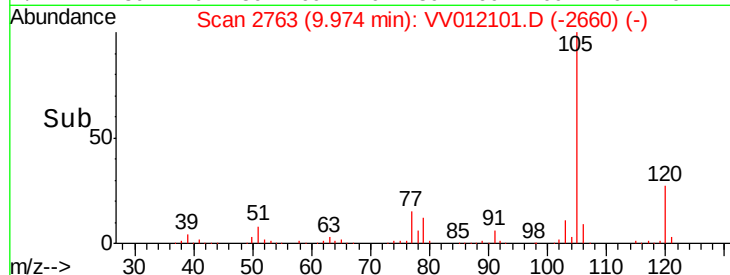
77 15.1 12.1 18.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.179 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

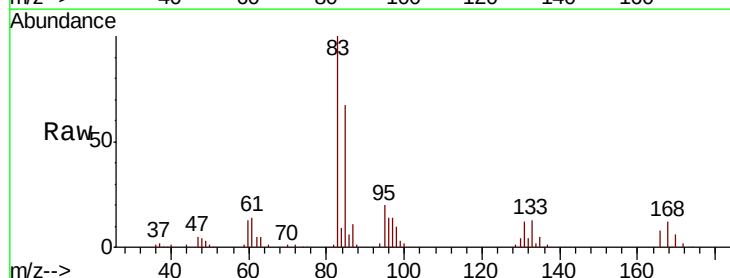
Tgt Ion: 83 Resp: 67896

Ion Ratio Lower Upper

83 100

85 67.4 47.2 87.6

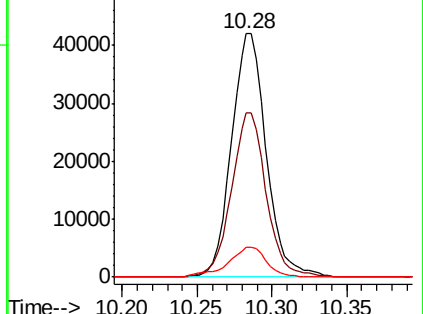
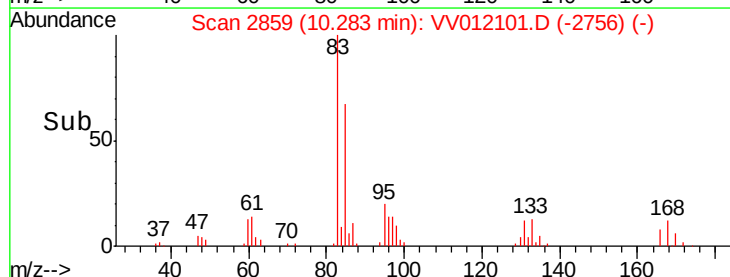
131 12.0 9.6 14.4

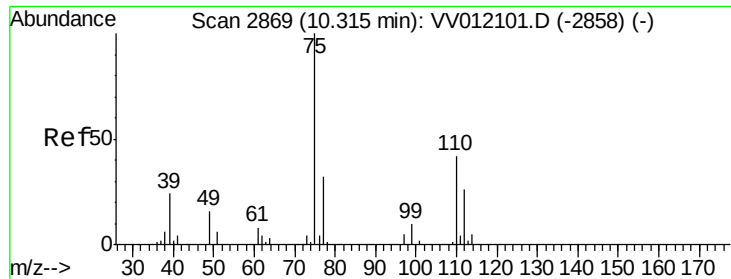


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.501 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

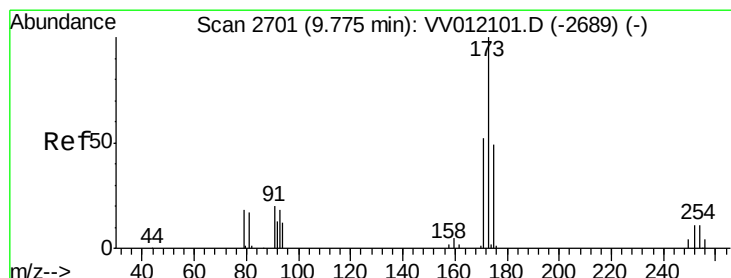
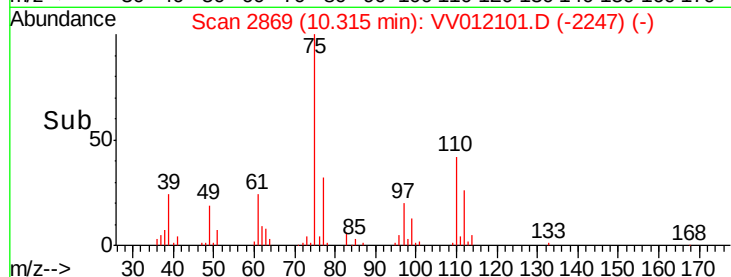
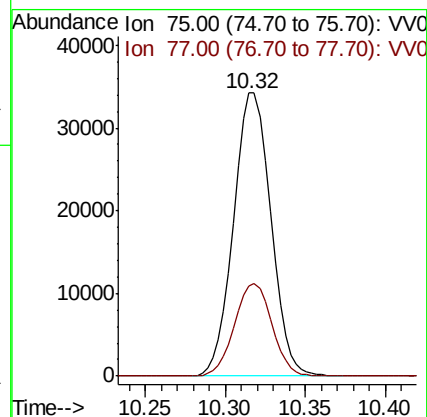
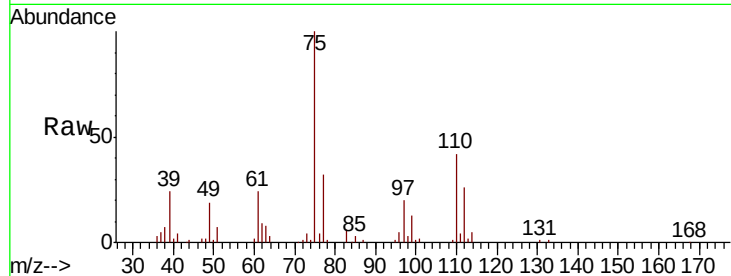
VSTD02563

Tgt Ion: 75 Resp: 54547

Ion Ratio Lower Upper

75 100

77 32.8 26.2 39.4



#62

Bromoform

Concen: 32.107 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

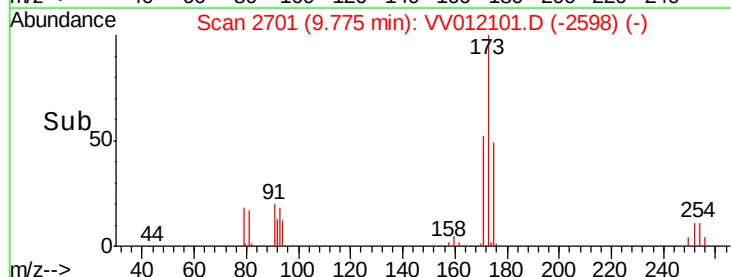
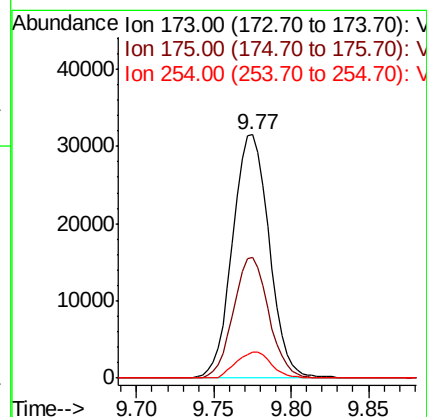
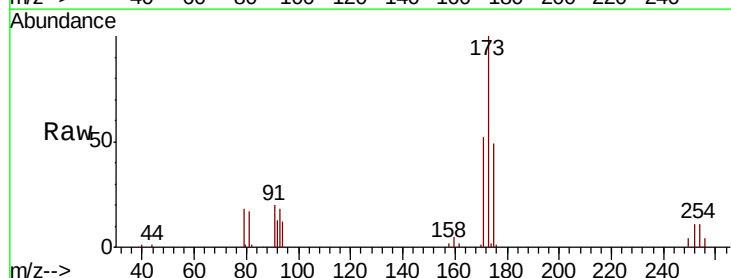
Tgt Ion: 173 Resp: 51867

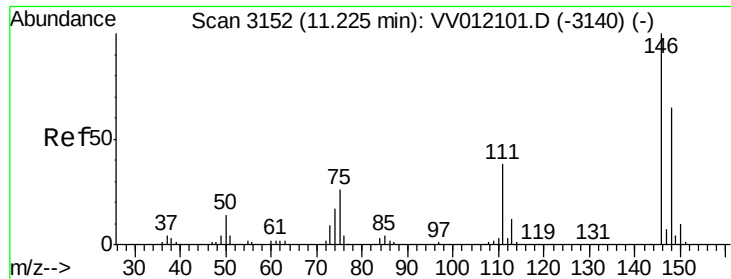
Ion Ratio Lower Upper

173 100

175 47.4 37.9 56.9

254 10.3 8.2 12.4





#63

1,3-Dichlorobenzene

Concen: 25.132 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

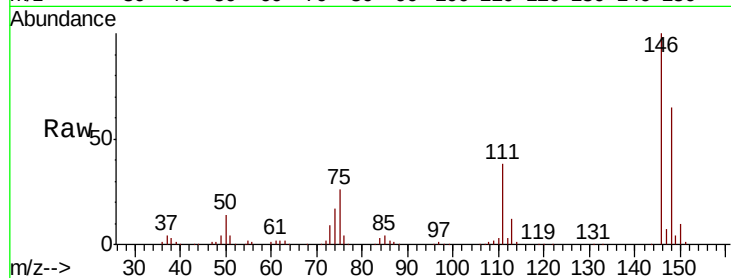
Tgt Ion:146 Resp: 158593

Ion Ratio Lower Upper

146 100

111 38.1 26.7 49.5

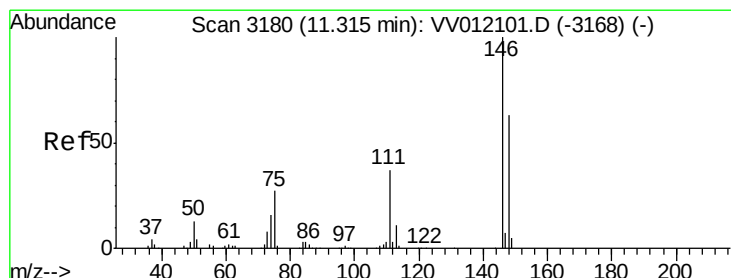
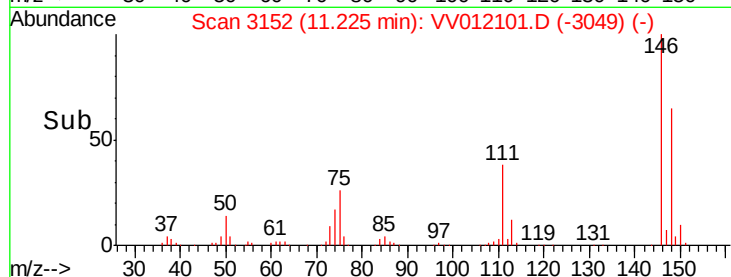
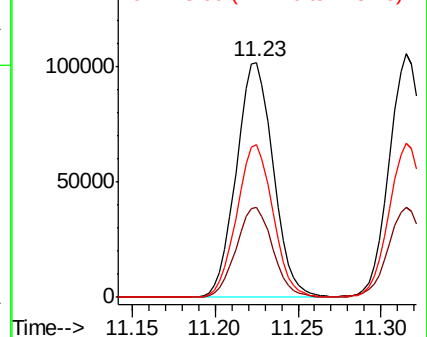
148 64.9 45.4 84.4



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



#64

1,4-Dichlorobenzene

Concen: 24.758 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

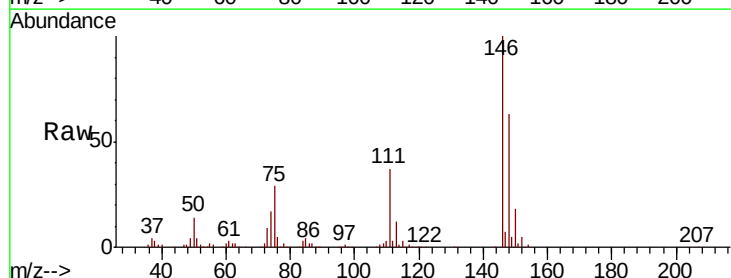
Tgt Ion:146 Resp: 158221

Ion Ratio Lower Upper

146 100

111 37.0 25.9 48.1

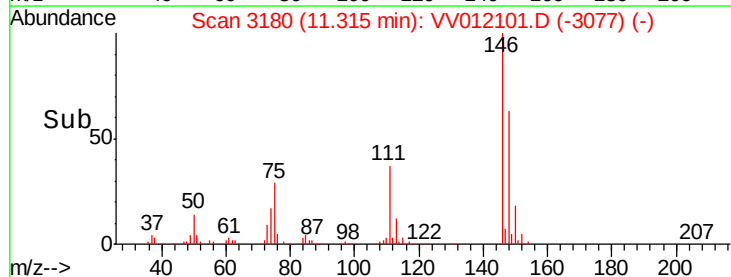
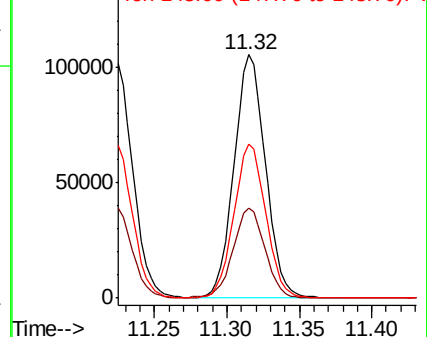
148 63.4 44.4 82.4

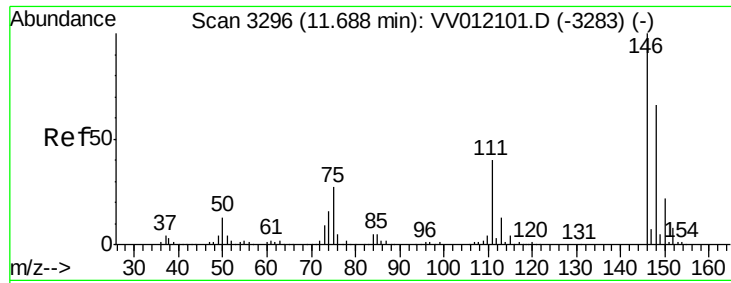


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

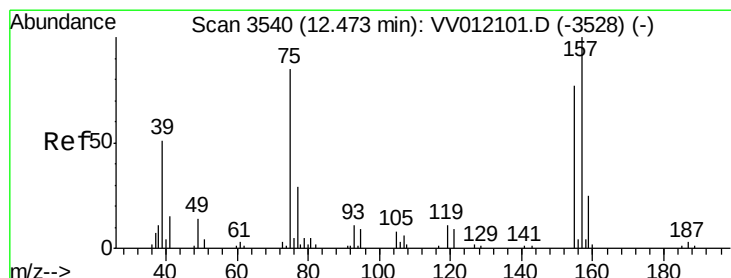
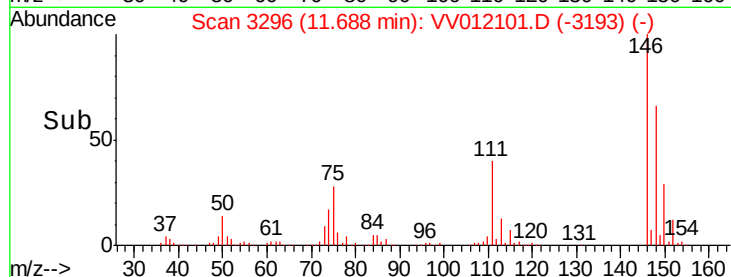
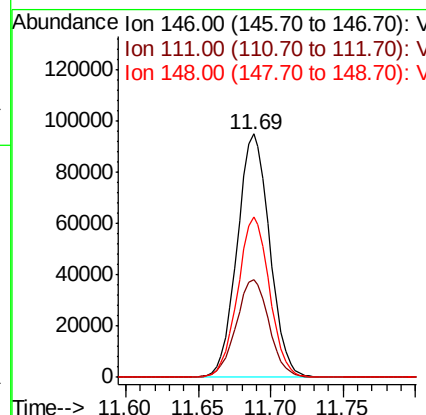
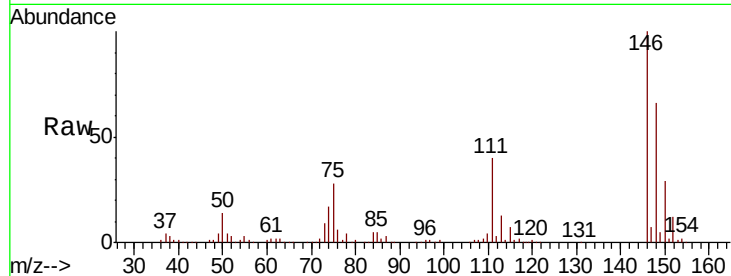




#65
 1,2-Dichlorobenzene
 Concen: 24.871 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

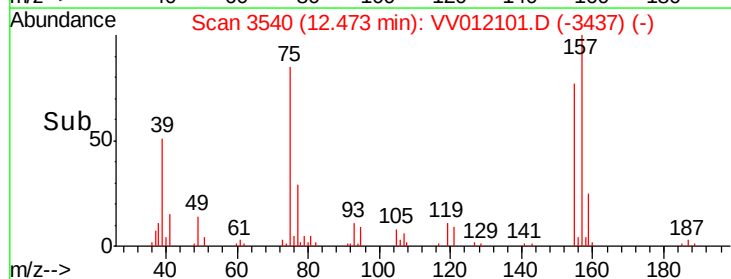
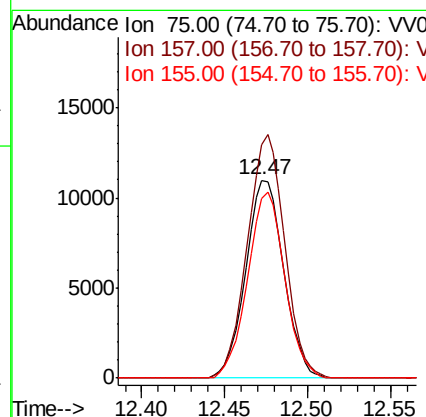
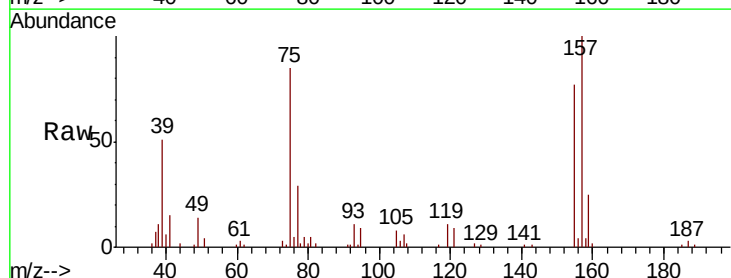
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

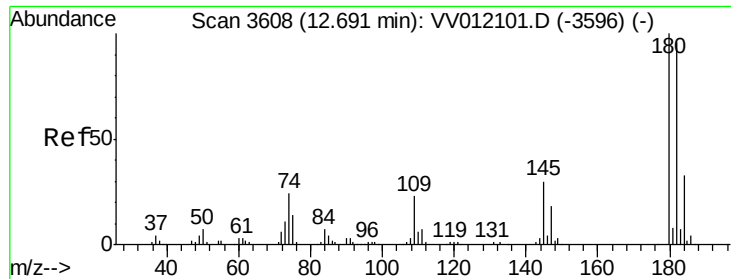
Tgt Ion: 146 Resp: 147771
 Ion Ratio Lower Upper
 146 100
 111 40.3 32.2 48.4
 148 65.7 52.6 78.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 28.949 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion: 75 Resp: 17447
 Ion Ratio Lower Upper
 75 100
 157 118.0 94.4 141.6
 155 90.7 72.6 108.8

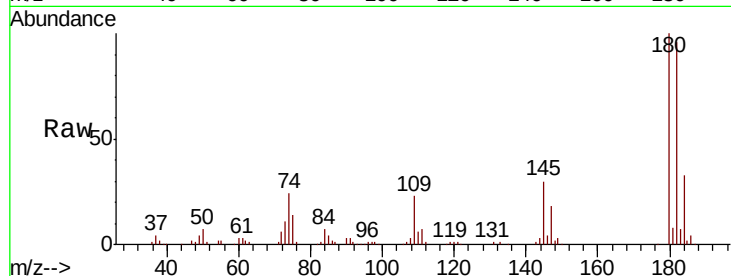




#67
 1,3,5-Trichlorobenzene
 Concen: 27.468 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD02563

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.2	115.8
184	31.8	25.4	38.2
145	29.5	23.6	35.4



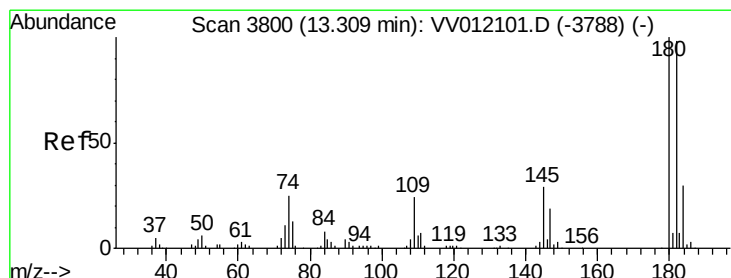
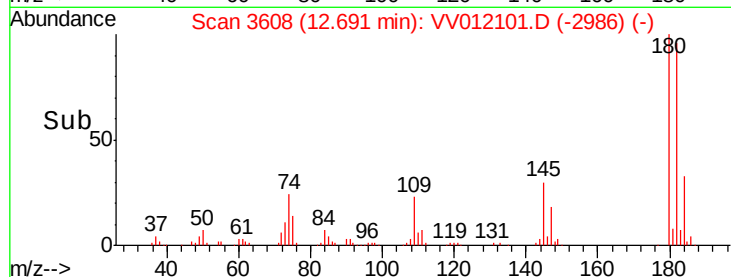
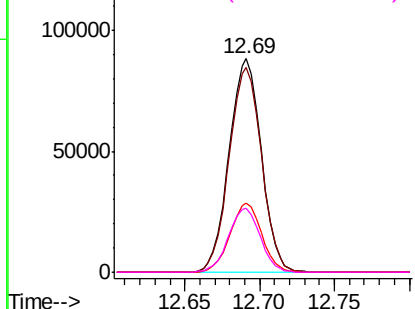
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

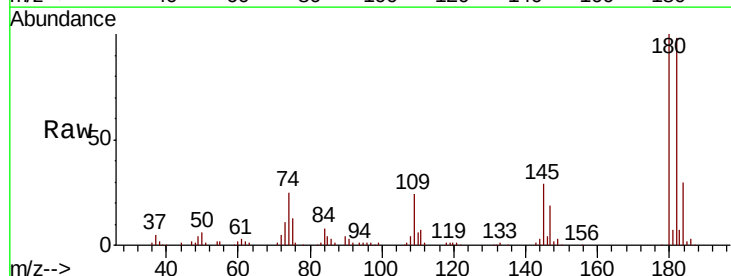
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 29.621 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012101.D
 Acq: 03 Aug 2019 10:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.2	115.8
145	29.2	23.4	35.0

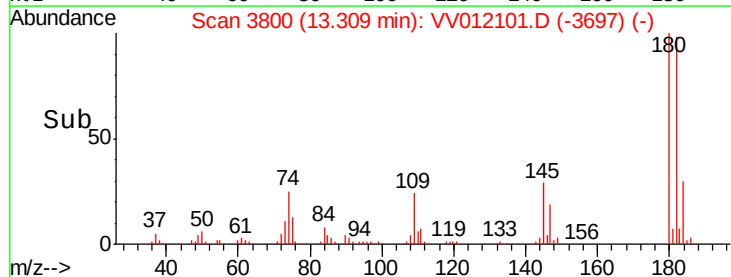
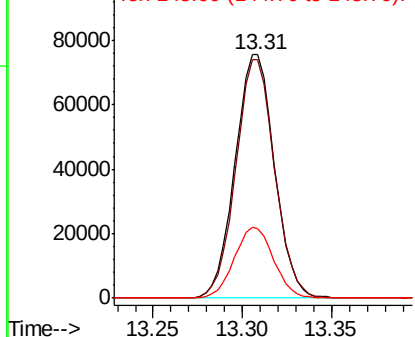


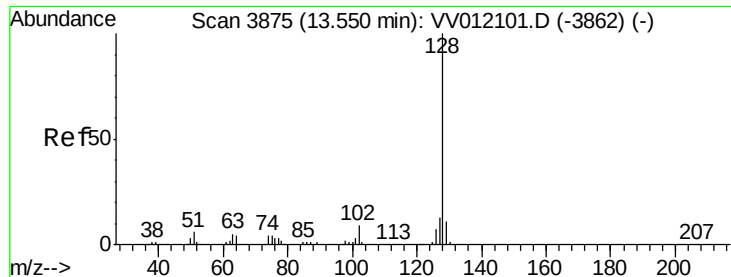
Abundance

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





#69

Naphthalene

Concen: 29.332 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

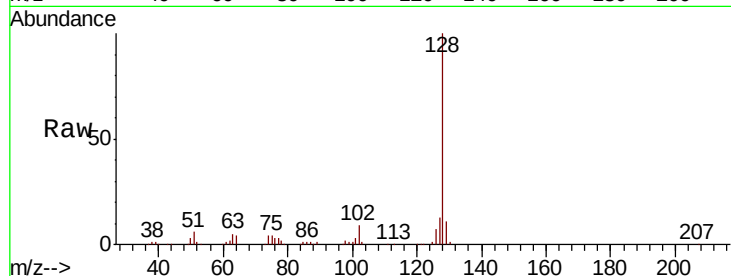
Tgt Ion:128 Resp: 232737

Ion Ratio Lower Upper

128 100

129 10.8 8.6 13.0

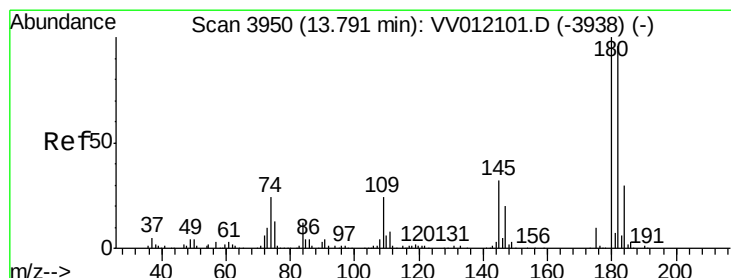
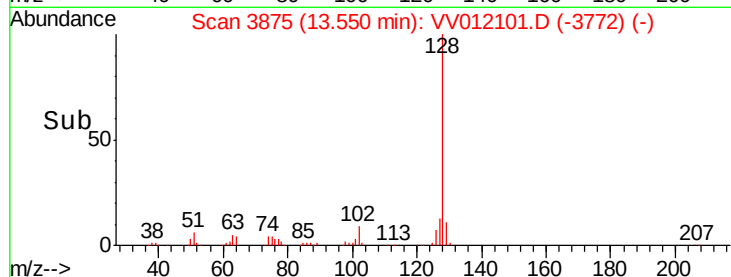
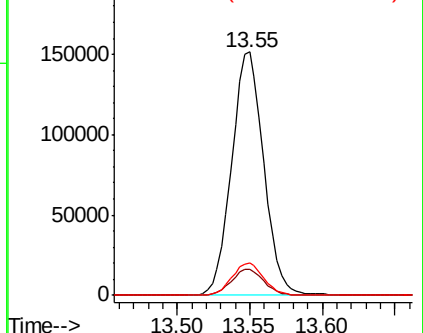
127 13.2 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 29.826 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012101.D

Acq: 03 Aug 2019 10:32

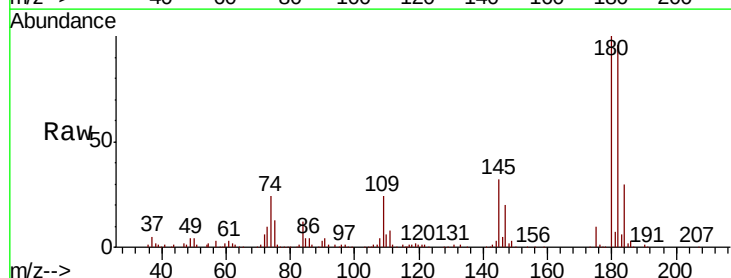
Tgt Ion:180 Resp: 109331

Ion Ratio Lower Upper

180 100

182 94.7 75.8 113.6

145 31.6 25.3 37.9



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

