

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV010419\
 Data File : VV009155.D
 Acq On : 04 Jan 2019 11:18
 Operator : SY/MD
 Sample : VSTD00563
 Misc : 5.00 G/10ML/MSVOA_V/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Quant Time: Jan 05 04:23:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jan 05 04:20:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	159687	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	141398	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70461	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	7773	7.12	ug/L	0.00
7) Chloroethane-d5	1.58	69	5112	4.83	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	22319	6.11	ug/L	0.00
20) 2-Butanone-d5	3.97	46	5957	7.87	ug/L	0.00
24) Chloroform-d	4.40	84	19532	5.81	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	9838	5.47	ug/L	0.00
29) Benzene-d6	5.10	84	37932	6.02	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	10672	5.91	ug/L	0.00
37) Toluene-d8	7.36	98	35016	5.89	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	4503	5.25	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	4689	11.00	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	10668	5.37	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	13092	5.50	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	16333	6.363 ug/L	95
3) Chloromethane	1.25	50	10393	5.978 ug/L	95
5) Vinyl chloride	1.32	62	10807	5.806 ug/L	96
6) Bromomethane	1.53	94	5597	4.269 ug/L	96
8) Chloroethane	1.59	64	5105	4.450 ug/L	87
9) Trichlorofluoromethane	1.76	101	22488	6.589 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	13232	5.822 ug/L	97
12) 1,1-Dichloroethene	2.14	96	11105	5.634 ug/L	88
13) Acetone	2.21	43	12925	11.869 ug/L	98
14) Carbon disulfide	2.32	76	33042	5.866 ug/L	100
15) Methyl Acetate	2.47	43	7223	5.360 ug/L	98
16) Methylene chloride	2.53	84	20809	8.722 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	22025	4.562 ug/L	95
18) trans-1,2-Dichloroethene	2.79	96	11787	5.643 ug/L	98
19) 1,1-Dichloroethane	3.23	63	18388	5.301 ug/L	98
21) 2-Butanone	4.04	43	5085	5.077 ug/L	# 95
22) cis-1,2-Dichloroethene	3.96	96	12004	5.375 ug/L	96
23) Bromochloromethane	4.30	128	5251	4.998 ug/L	94
25) Chloroform	4.42	83	19575	5.299 ug/L	100
27) 1,2-Dichloroethane	5.18	62	12477	5.028 ug/L	95
30) Cyclohexane	4.72	56	18169	5.796 ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	18651	5.425 ug/L	99
32) Carbon tetrachloride	4.87	117	17127	5.443 ug/L	97
34) Benzene	5.15	78	41307	5.434 ug/L	100
35) Trichloroethene	5.96	95	12084	5.518 ug/L	99
36) Methylcyclohexane	6.17	83	20812	5.688 ug/L	98
40) 1,2-Dichloropropane	6.22	63	9090	4.961 ug/L	97
41) Bromodichloromethane	6.55	83	13044	5.194 ug/L	94
42) cis-1,3-Dichloropropene	7.07	75	13642	4.699 ug/L	96
43) 4-Methyl-2-pentanone	7.29	43	17562	10.056 ug/L	93

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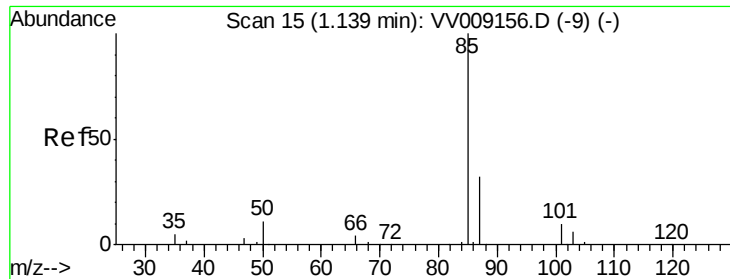
Instrument :
 MSVOA_V
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Quant Time: Jan 05 04:23:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM010419S.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) Toluene	7.43	91	43274	5.280	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	12837	5.050	ug/L	94
46) 1,1,2-Trichloroethane	7.88	97	8166	5.043	ug/L	97
47) Tetrachloroethene	8.02	164	11225	5.916	ug/L	91
49) 2-Hexanone	8.20	43	11271	8.769	ug/L	98
50) Dibromochloromethane	8.29	129	9520	4.786	ug/L	97
51) 1,2-Dibromoethane	8.40	107	8249	4.872	ug/L #	96
52) Chlorobenzene	8.92	112	30030	5.340	ug/L	97
53) Ethylbenzene	9.05	91	48812	5.267	ug/L	97
54) m,p-Xylene	9.18	106	18034	4.994	ug/L	94
55) o-xylene	9.59	106	17196	5.150	ug/L	97
56) Styrene	9.60	104	27874	4.950	ug/L	91
57) Isopropylbenzene	9.98	105	47794	5.159	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	10768	4.963	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	8346	4.813	ug/L	99
62) Bromoform	9.78	173	6292	5.056	ug/L #	95
63) 1,3-Dichlorobenzene	11.23	146	22350	5.034	ug/L	96
64) 1,4-Dichlorobenzene	11.32	146	24166	5.222	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	21855	5.168	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	2160	4.920	ug/L	88
67) 1,3,5-Trichlorobenzene	12.69	180	17252	4.818	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	11658	4.000	ug/L	94
69) Naphthalene	13.56	128	17895	3.015	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	10462	3.912	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 6.363 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009155.D

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Instrument :

MSVOA_V

ClientSampleId :

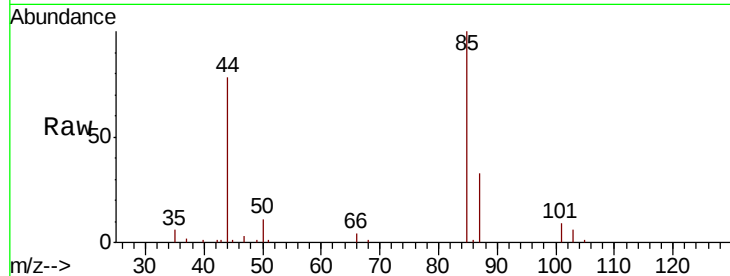
VSTD00563

Tgt Ion: 85 Resp: 16333

Ion Ratio Lower Upper

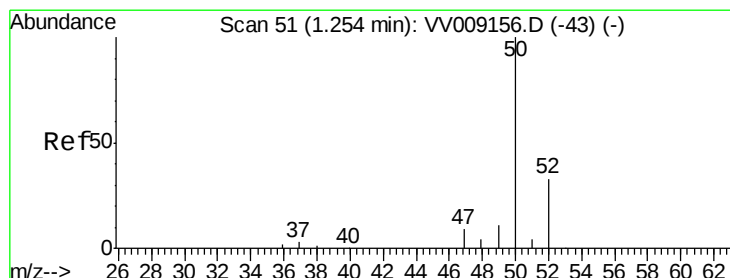
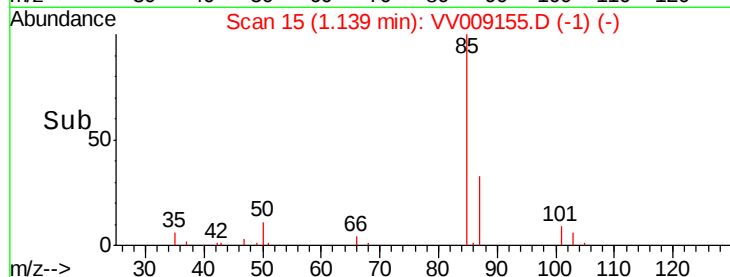
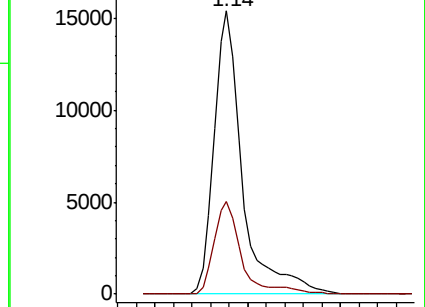
85 100

87 29.1 22.5 41.7



Abundance Ion 85.00 (84.70 to 85.70): VV009155.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV009155.D (-1) (-)



#3

Chloromethane

Concen: 5.978 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009155.D

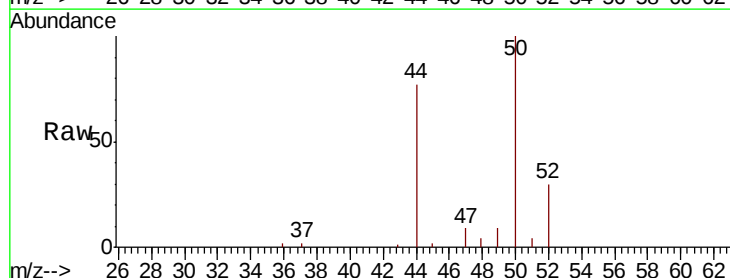
Acq: 04 Jan 2019 11:18

Tgt Ion: 50 Resp: 10393

Ion Ratio Lower Upper

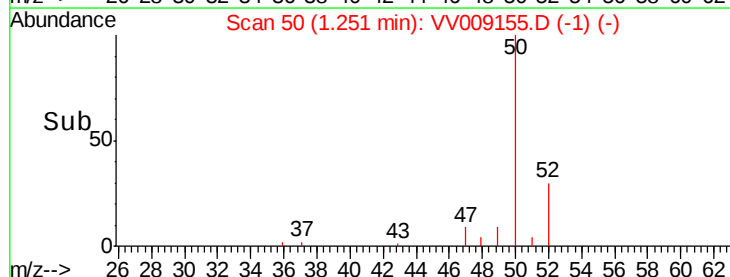
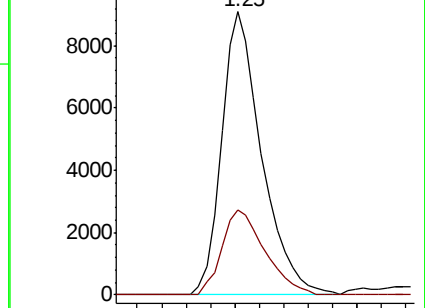
50 100

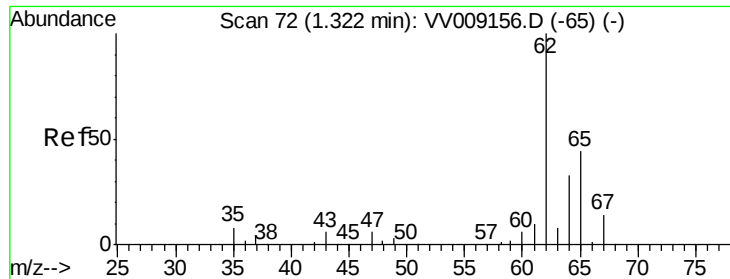
52 30.2 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV009155.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV009155.D (-1) (-)





#5

Vinyl chloride

Concen: 5.806 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

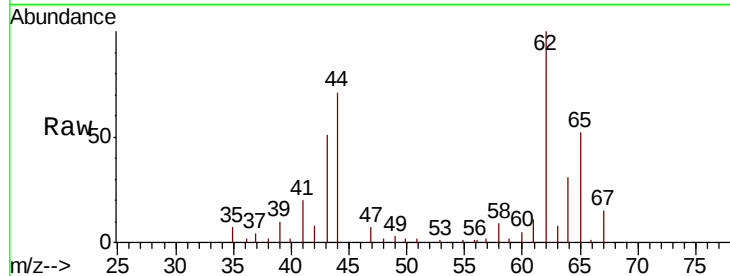
VSTD00563

Tgt Ion: 62 Resp: 10807

Ion Ratio Lower Upper

62 100

64 30.7 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV009155.D (-62) (-)

Ion 64.00 (63.70 to 64.70): VV009155.D (-64) (-)

12000

10000

8000

6000

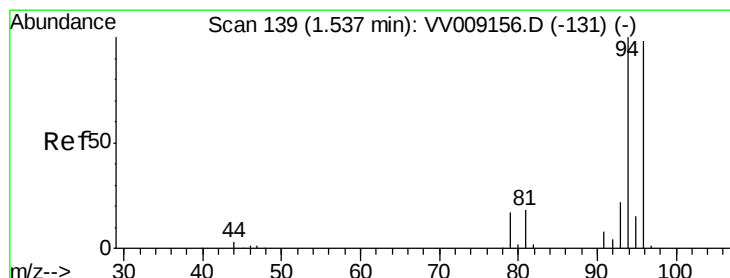
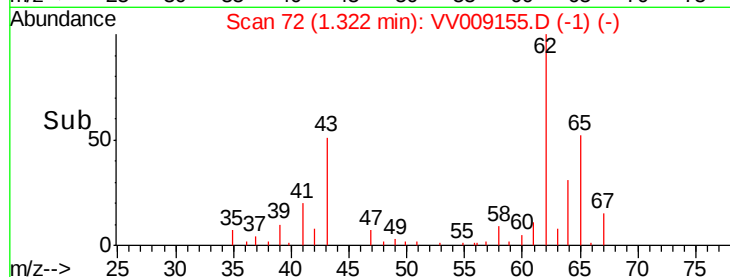
4000

2000

0

1.28 1.30 1.32 1.34 1.36

Time-->



#6

Bromomethane

Concen: 4.269 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV009155.D

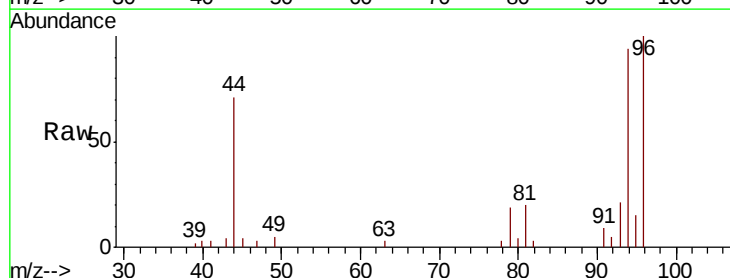
Acq: 04 Jan 2019 11:18

Tgt Ion: 94 Resp: 5597

Ion Ratio Lower Upper

94 100

96 101.1 9.7 185.1



Abundance Ion 94.00 (93.70 to 94.70): VV009155.D (-94) (-)

Ion 96.00 (95.70 to 96.70): VV009155.D (-96) (-)

6000

5000

4000

3000

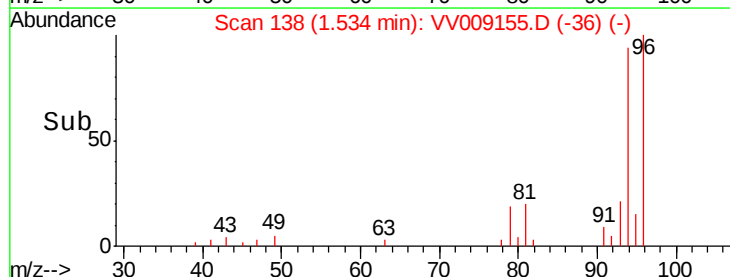
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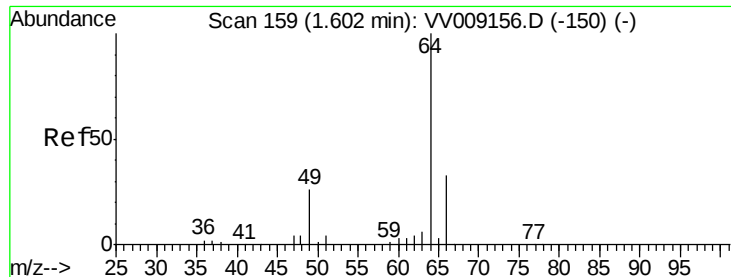
1000

0

1.50 1.52 1.54 1.56 1.58

Time-->

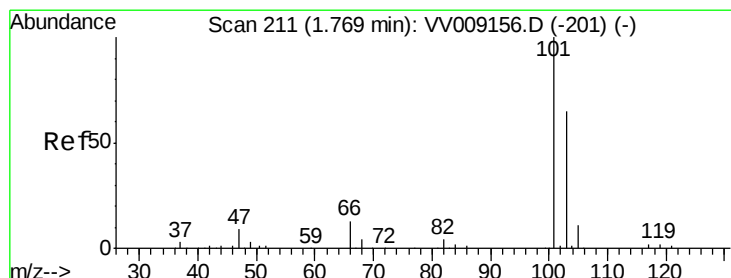
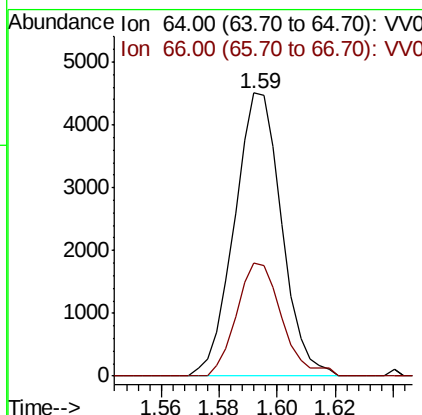
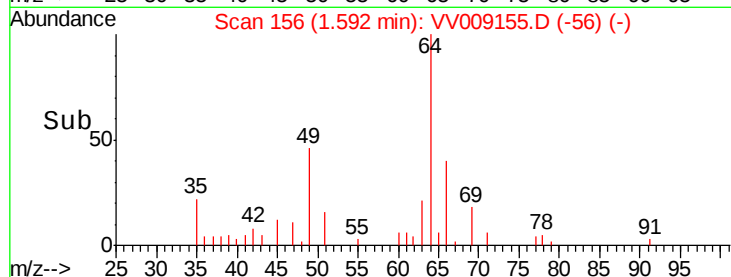
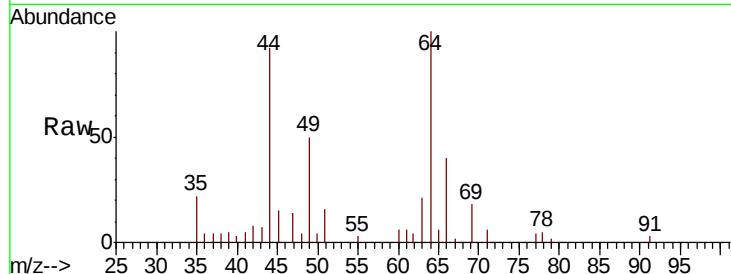




#8
Chloroethane
Concen: 4.450 ug/L
RT: 1.59 min Scan# 156
Delta R.T. -0.01 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

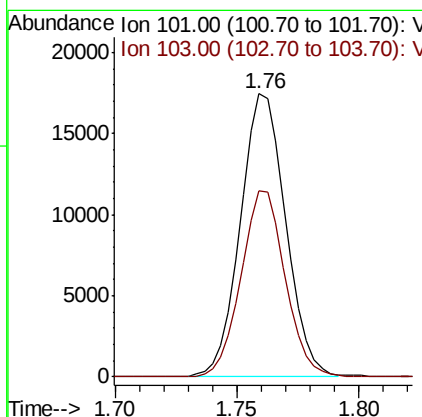
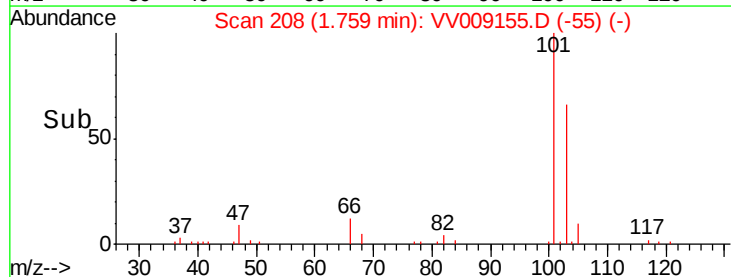
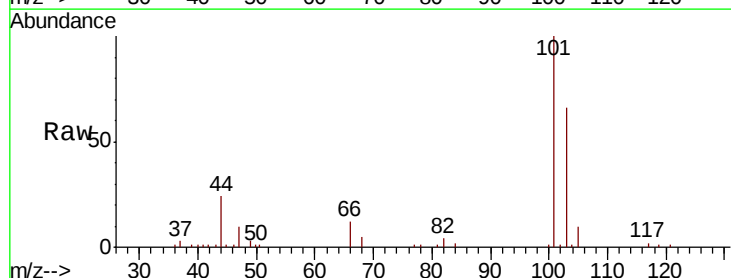
Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

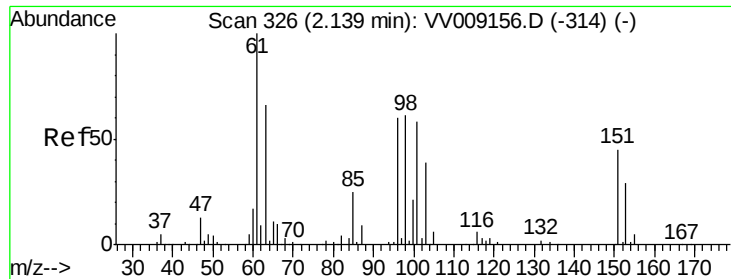
Tgt Ion: 64 Resp: 5105
Ion Ratio Lower Upper
64 100
66 40.2 23.2 43.0



#9
Trichlorofluoromethane
Concen: 6.589 ug/L
RT: 1.76 min Scan# 208
Delta R.T. -0.01 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 101 Resp: 22488
Ion Ratio Lower Upper
101 100
103 63.8 46.0 85.4





#11

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

Concen: 5.822 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

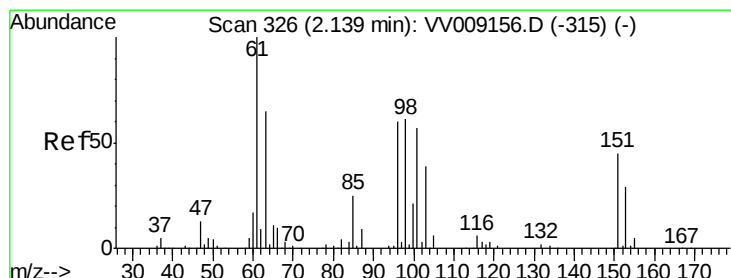
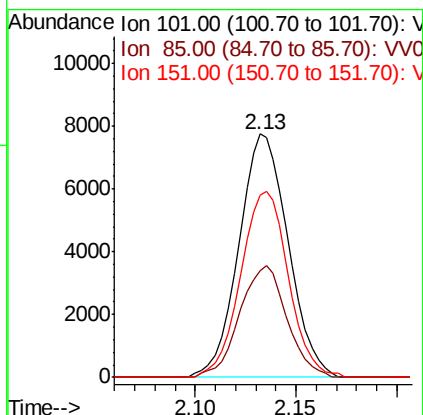
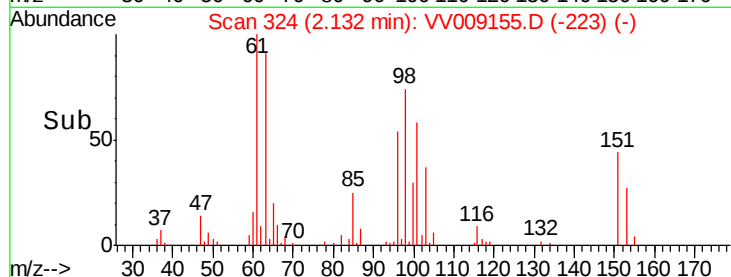
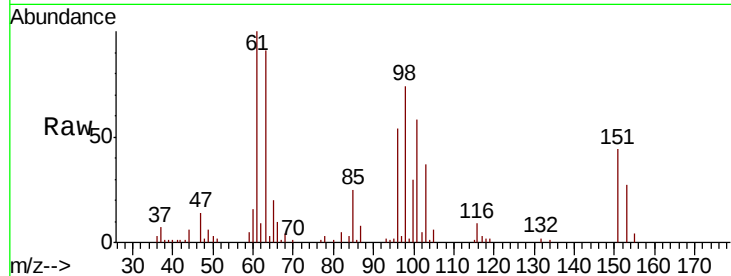
Tgt Ion: 101 Resp: 13232

Ion Ratio Lower Upper

101 100

85 43.9 34.6 52.0

151 74.2 62.6 94.0



#12

1,1-Dichloroethene

Concen: 5.634 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

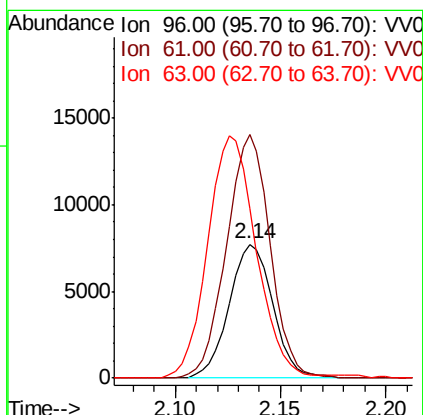
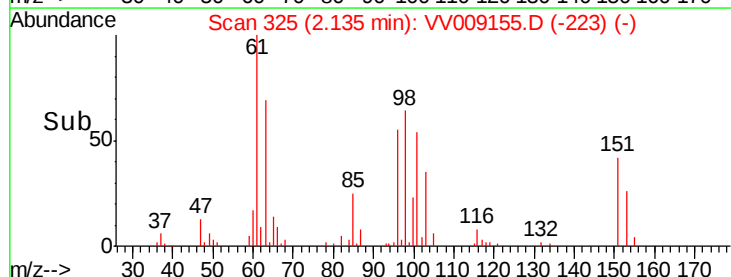
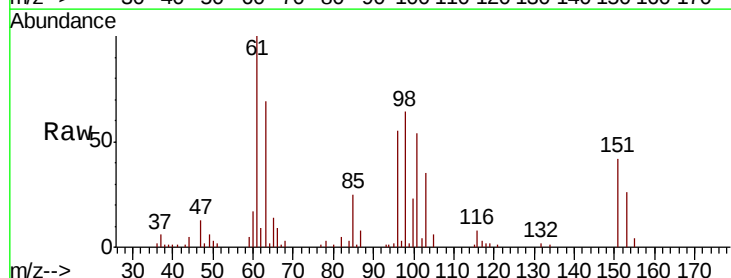
Tgt Ion: 96 Resp: 11105

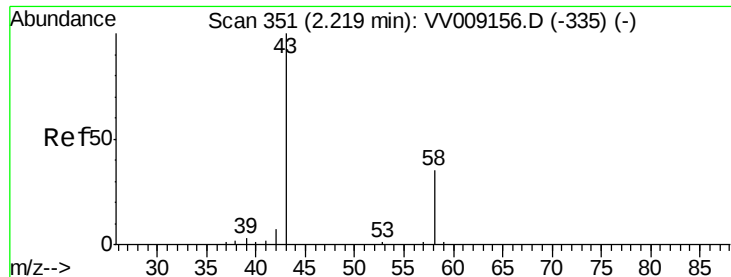
Ion Ratio Lower Upper

96 100

61 182.1 117.0 217.4

63 126.5 78.2 145.2





#13

Acetone

Concen: 11.869 ug/L

RT: 2.21 min Scan# 348

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

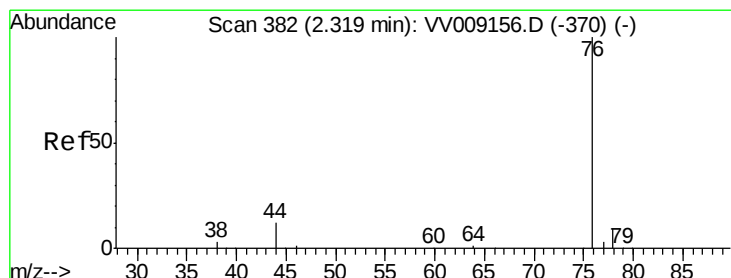
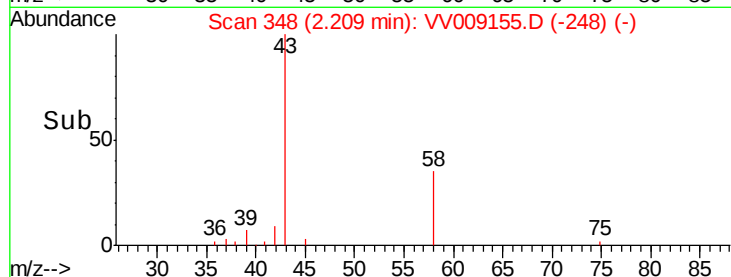
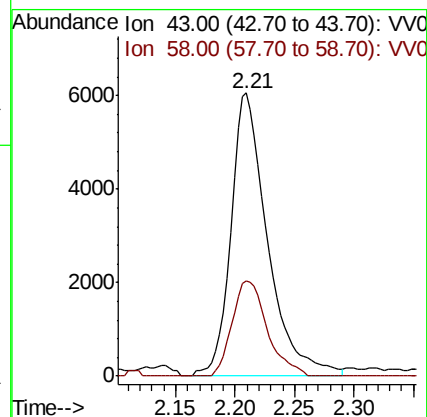
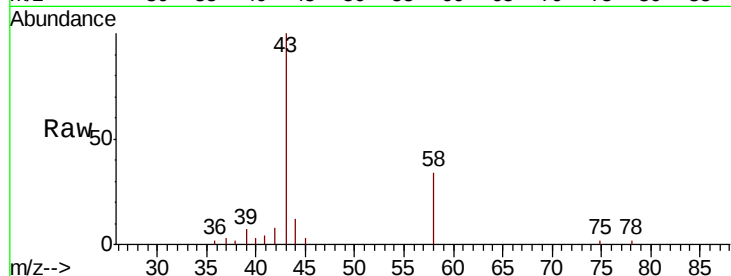
VSTD00563

Tgt Ion: 43 Resp: 12925

Ion Ratio Lower Upper

43 100

58 32.3 0.0 67.0



#14

Carbon disulfide

Concen: 5.866 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009155.D

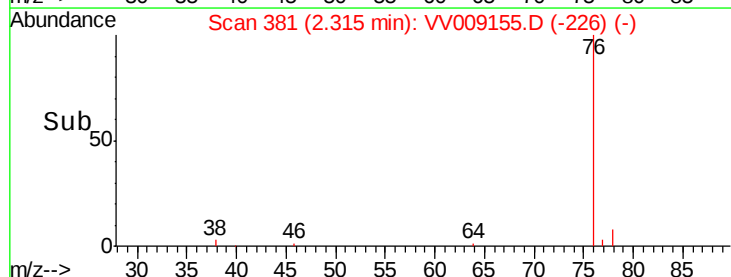
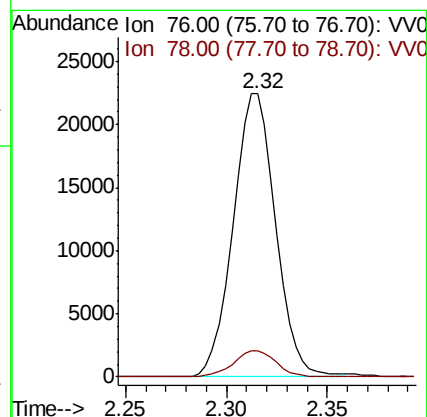
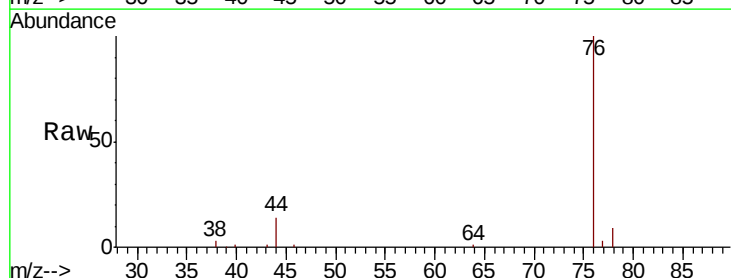
Acq: 04 Jan 2019 11:18

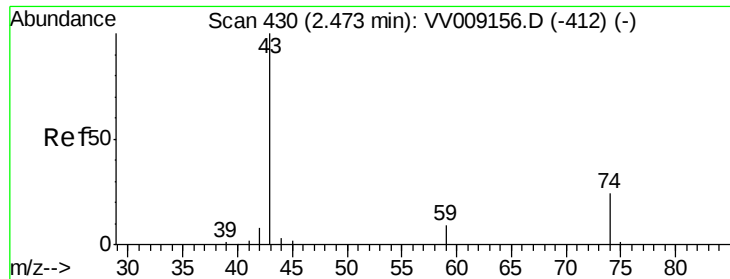
Tgt Ion: 76 Resp: 33042

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

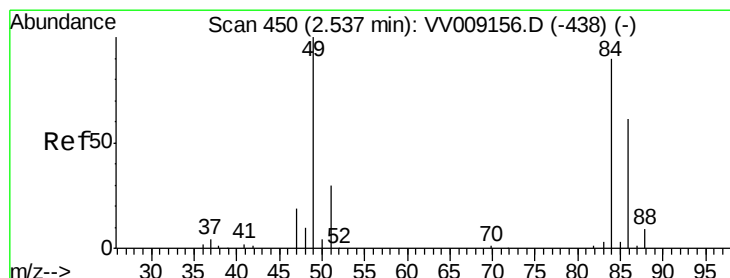
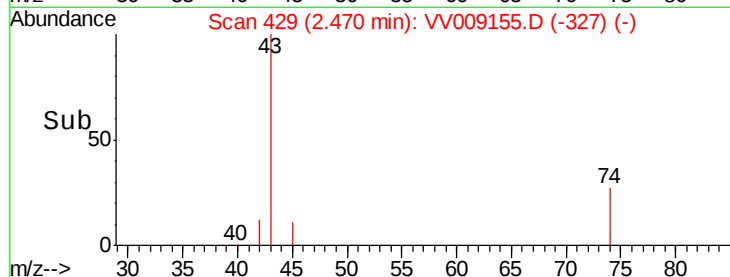
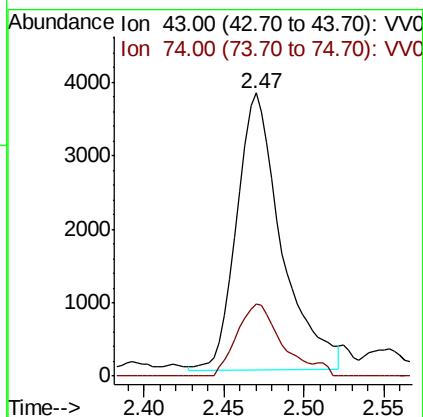
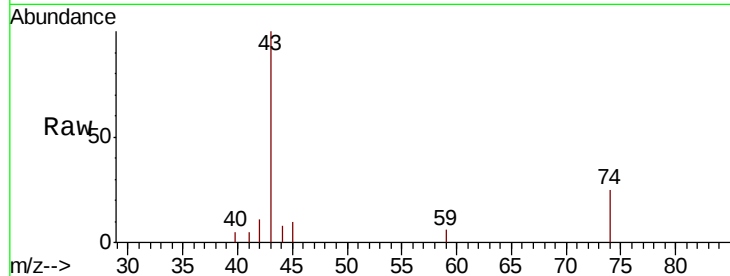




#15
Methyl Acetate
Concen: 5.360 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

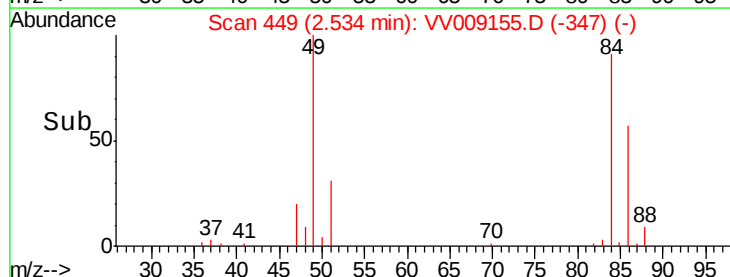
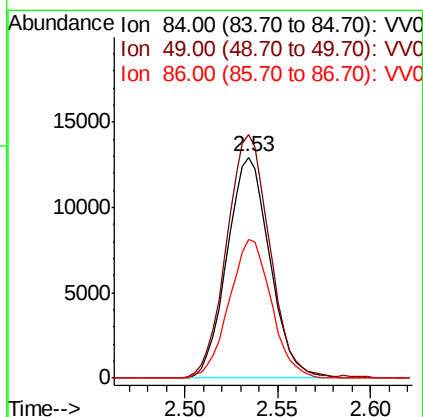
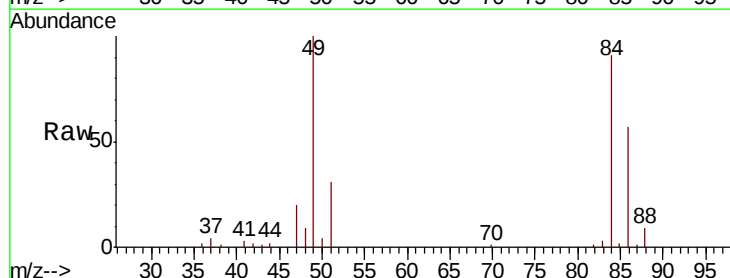
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ClientSampleId :
VSTD00563

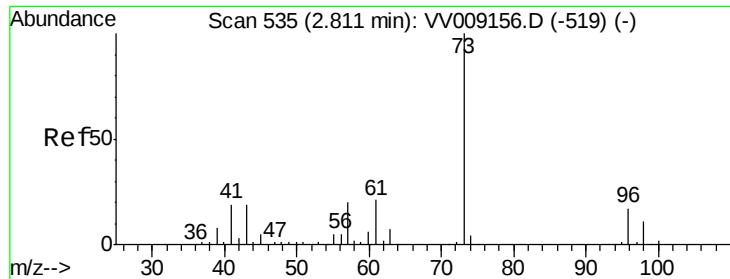
Tgt Ion: 43 Resp: 7223
Ion Ratio Lower Upper
43 100
74 25.4 19.4 29.0



#16
Methylene chloride
Concen: 8.722 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 84 Resp: 20809
Ion Ratio Lower Upper
84 100
49 110.2 77.6 144.2
86 62.8 47.4 88.0

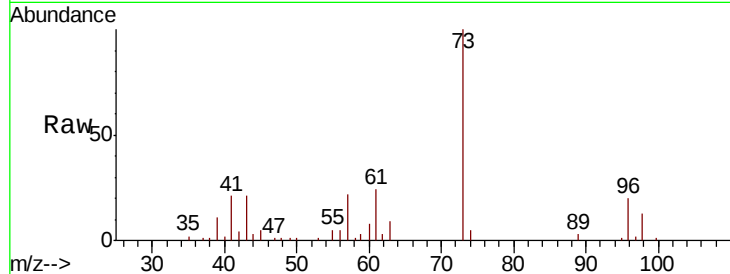




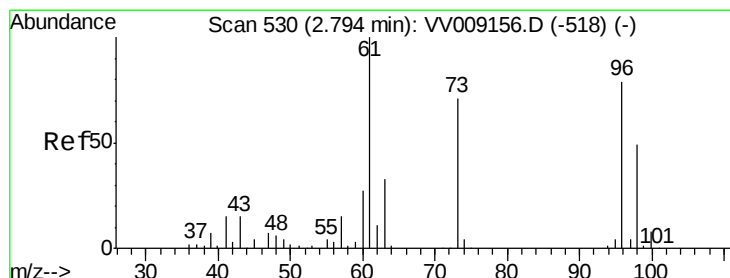
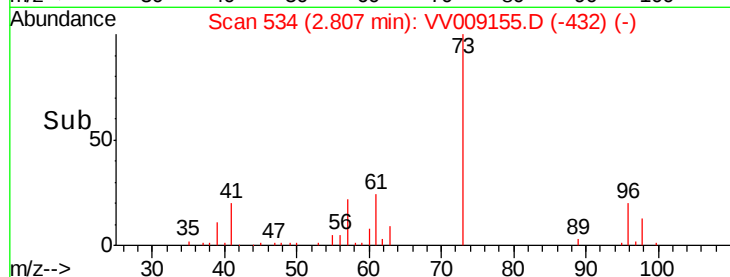
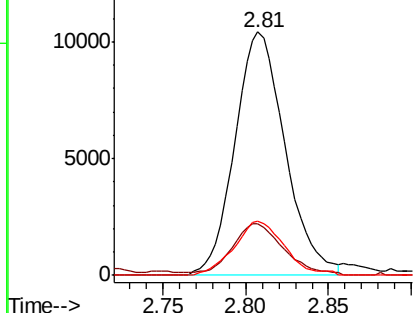
#17
Methyl tert-butyl Ether
Concen: 4.562 ug/L
RT: 2.81 min Scan# 534
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

Tgt Ion: 73 Resp: 22025
Ion Ratio Lower Upper
73 100
43 22.2 15.4 23.2
57 22.0 16.2 24.2

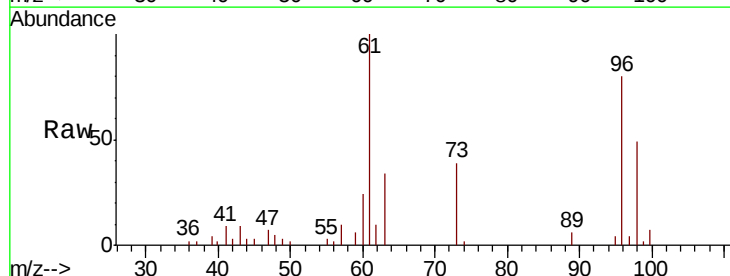


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

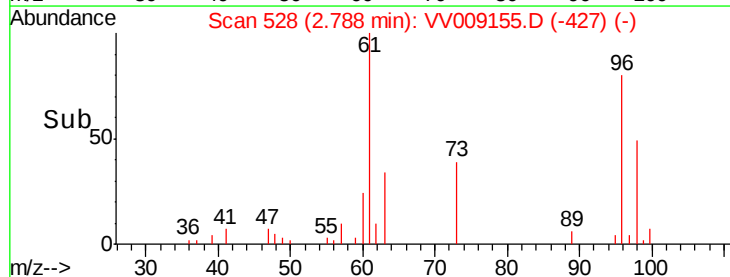
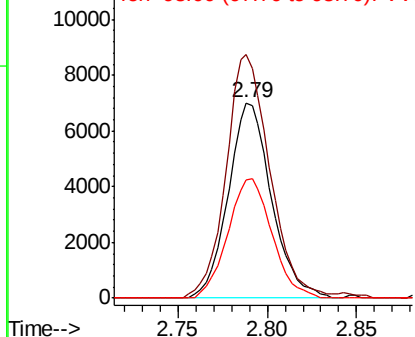


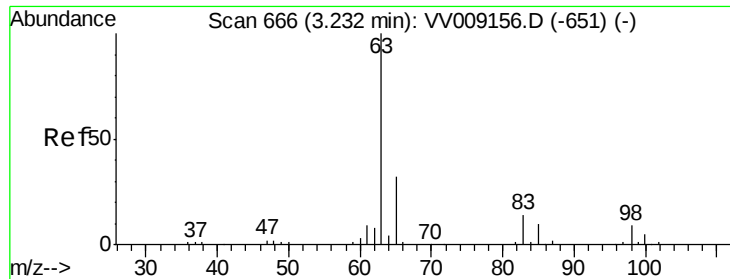
#18
trans-1,2-Dichloroethene
Concen: 5.643 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.01 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 96 Resp: 11787
Ion Ratio Lower Upper
96 100
61 124.6 88.8 164.8
98 60.6 43.5 80.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

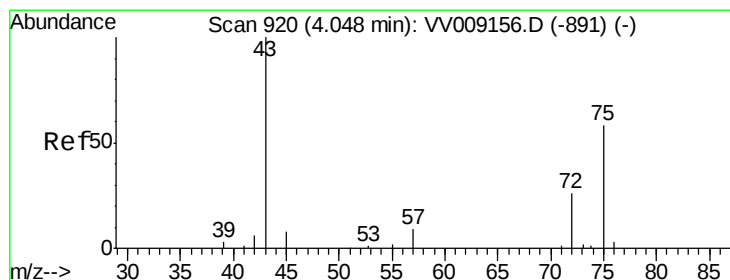
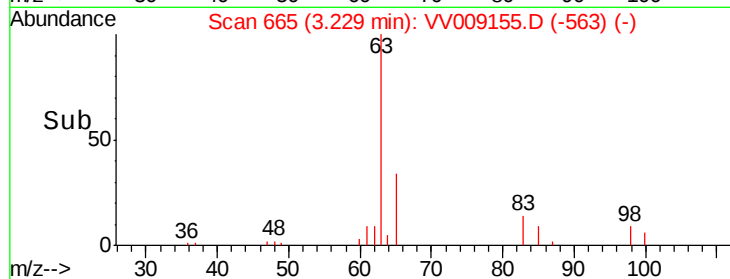
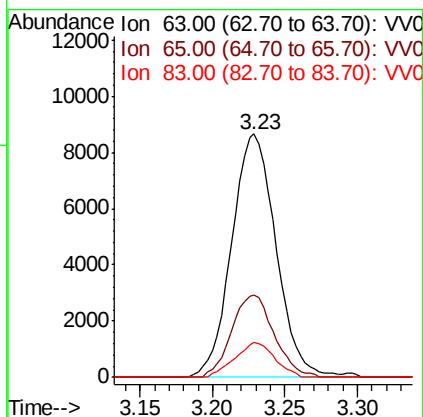
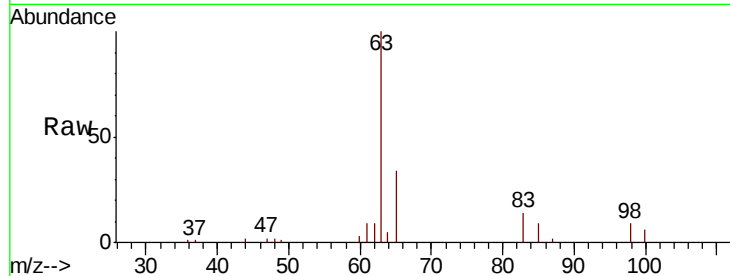




#19
 1,1-Dichloroethane
 Concen: 5.301 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

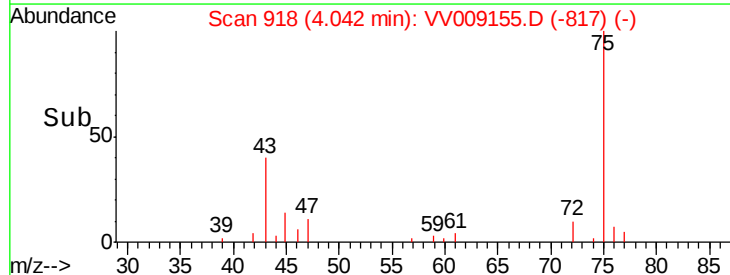
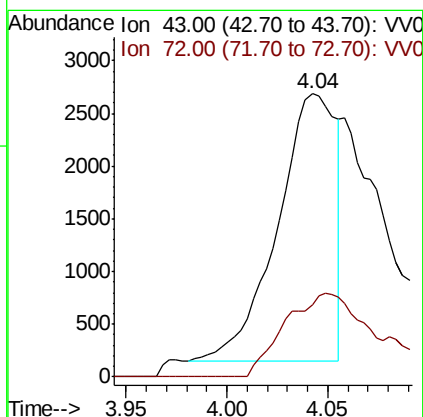
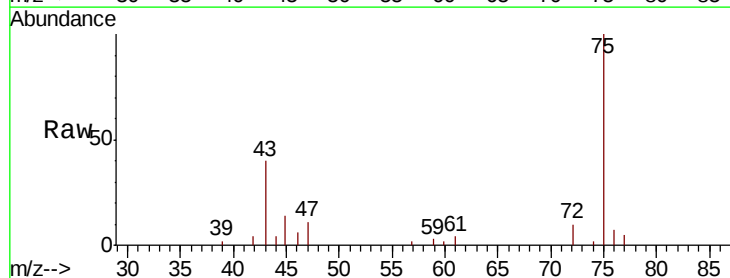
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

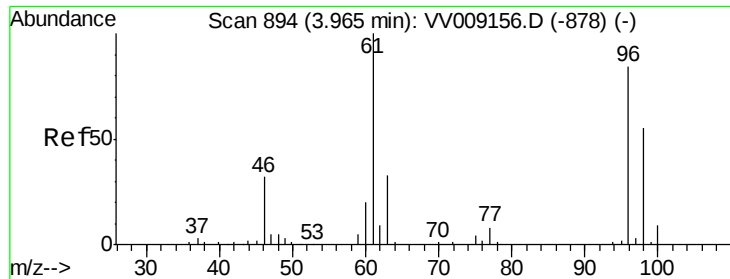
Tgt Ion: 63 Resp: 18388
 Ion Ratio Lower Upper
 63 100
 65 33.9 22.6 42.0
 83 14.3 9.9 18.3



#21
 2-Butanone
 Concen: 5.077 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. -0.01 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 43 Resp: 5085
 Ion Ratio Lower Upper
 43 100
 72 11.9 0.1 0.1#



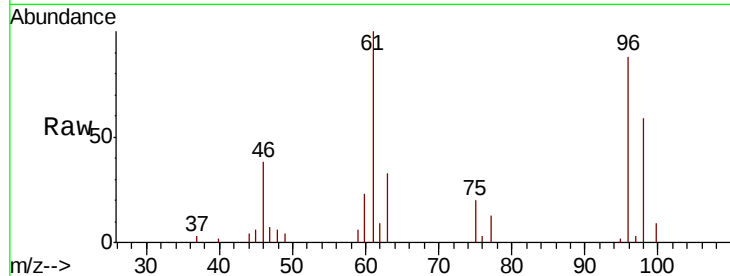


#22

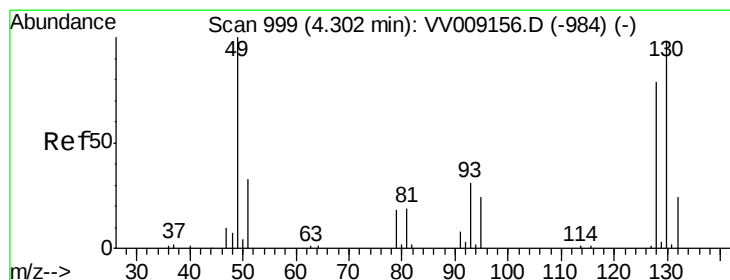
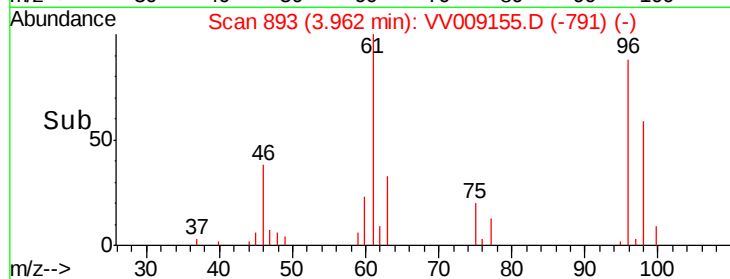
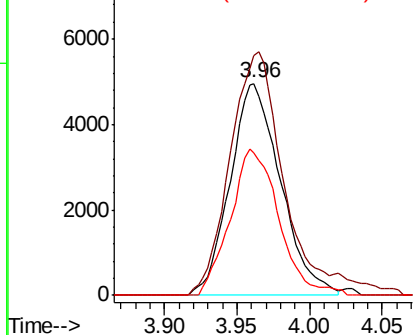
cis-1,2-Dichloroethene
 Concen: 5.375 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion: 96 Resp: 12004
 Ion Ratio Lower Upper
 96 100
 61 113.1 83.2 154.6
 98 67.1 45.8 85.2



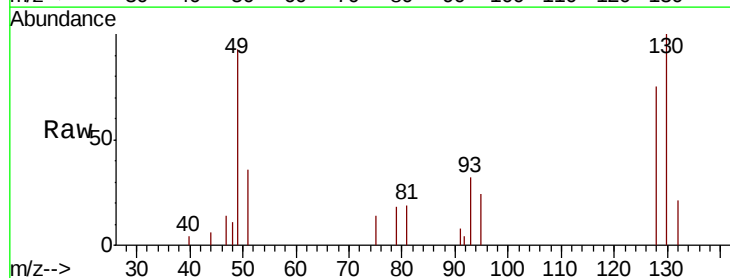
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



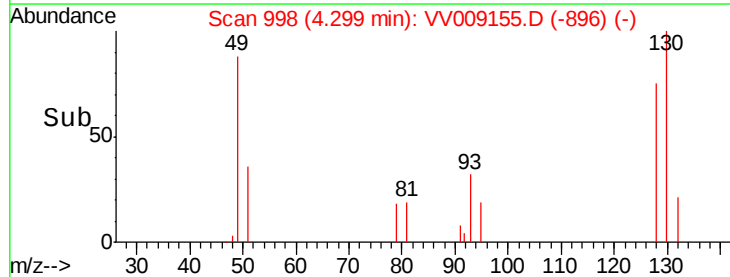
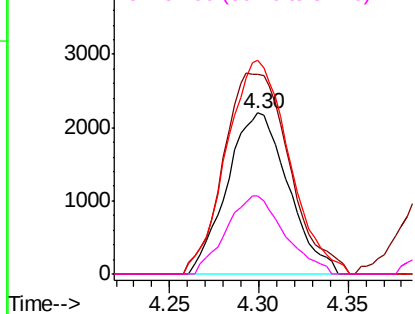
#23

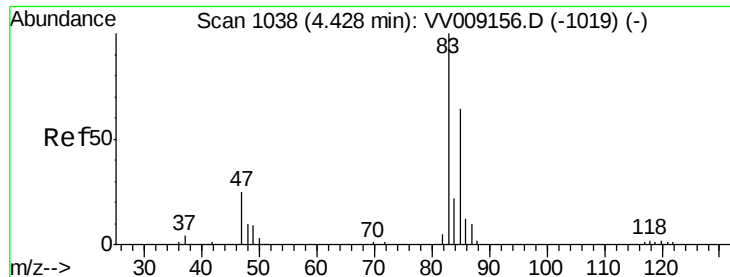
Bromochloromethane
 Concen: 4.998 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 128 Resp: 5251
 Ion Ratio Lower Upper
 128 100
 49 123.7 89.9 167.0
 130 132.7 87.8 163.2
 51 48.4 33.8 50.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

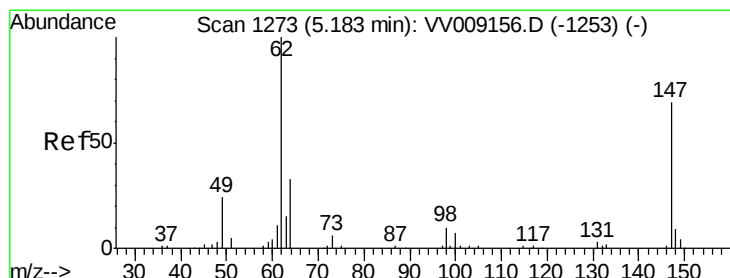
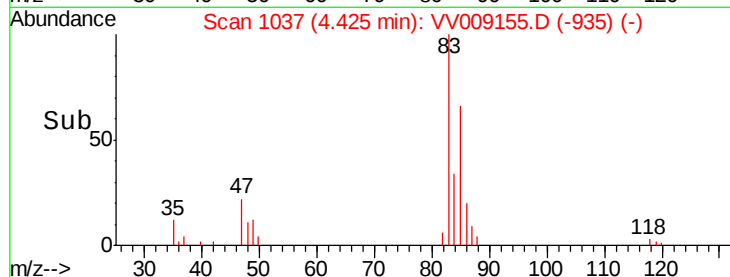
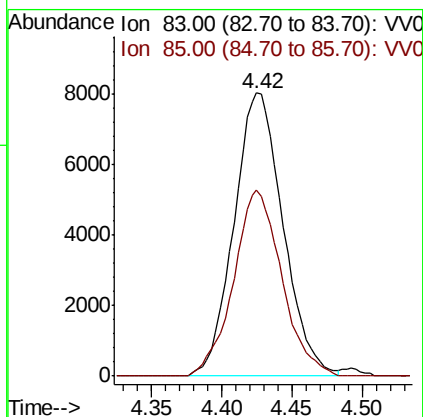
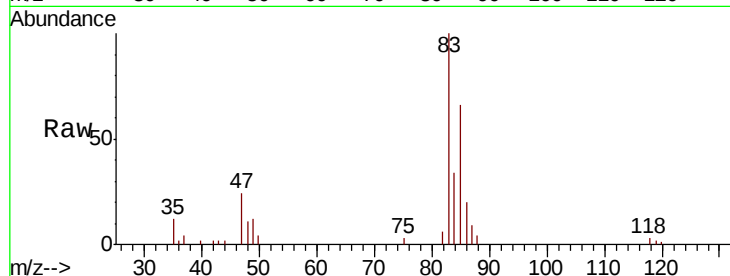




#25
Chloroform
Concen: 5.299 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

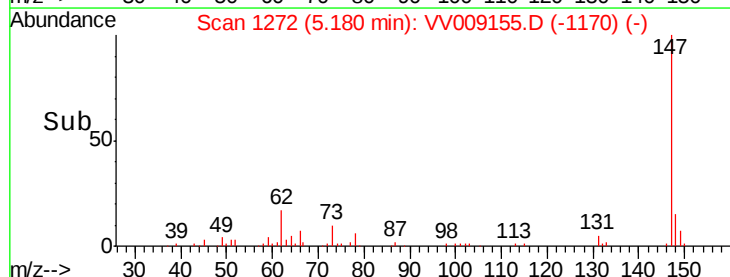
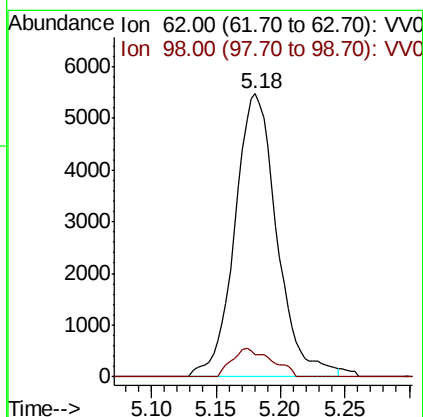
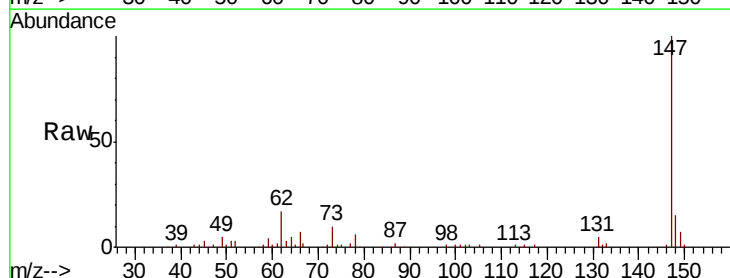
Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

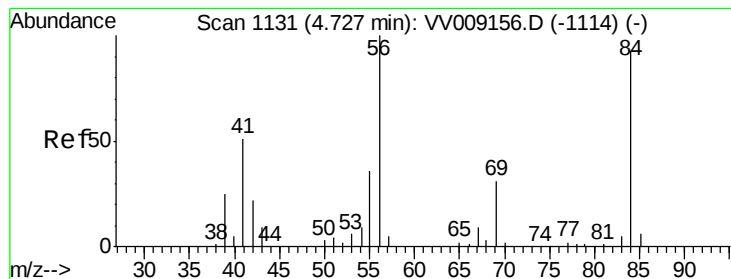
Tgt Ion: 83 Resp: 19575
Ion Ratio Lower Upper
83 100
85 64.3 45.3 84.1



#27
1,2-Dichloroethane
Concen: 5.028 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 62 Resp: 12477
Ion Ratio Lower Upper
62 100
98 8.1 8.1 12.1





#30

Cyclohexane

Concen: 5.796 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. -0.01 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

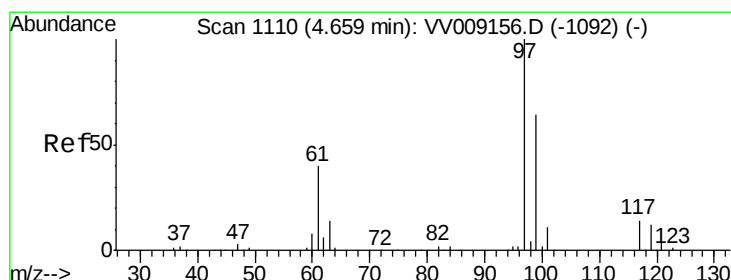
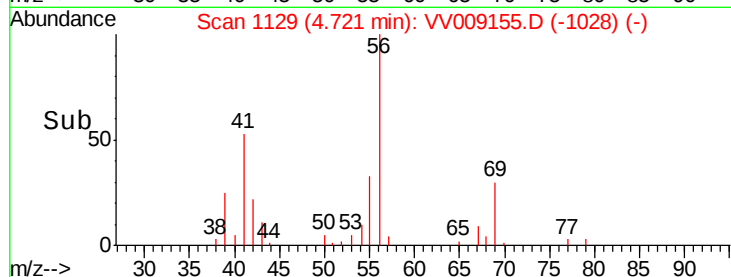
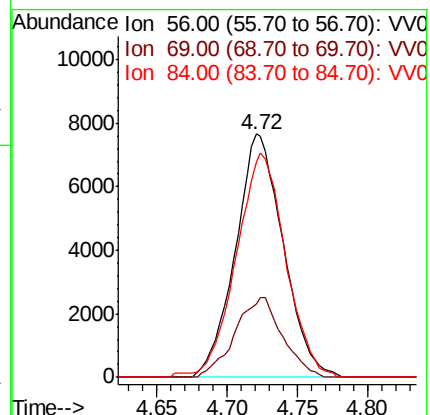
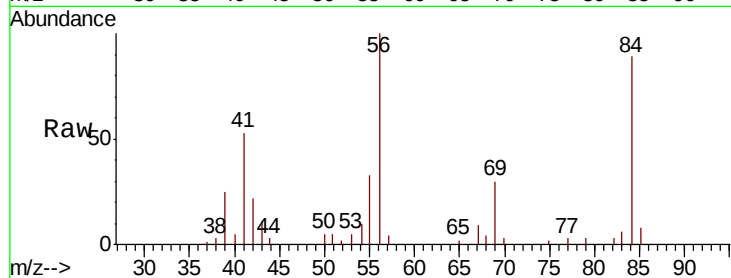
Tgt Ion: 56 Resp: 18169

Ion Ratio Lower Upper

56 100

69 32.4 26.0 39.0

84 94.3 77.0 115.4



#31

1,1,1-Trichloroethane

Concen: 5.425 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

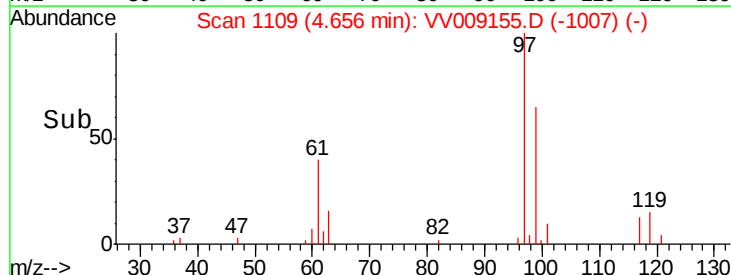
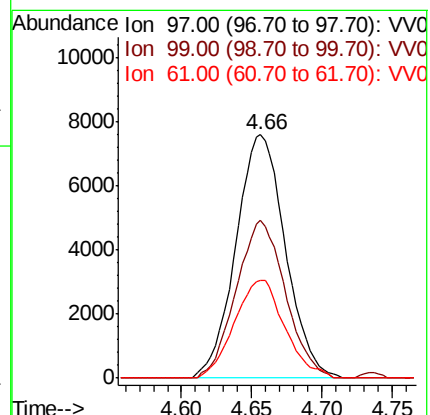
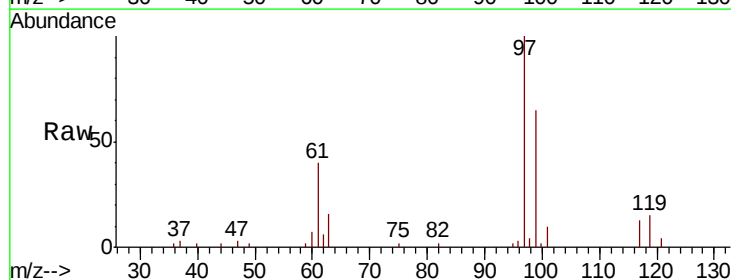
Tgt Ion: 97 Resp: 18651

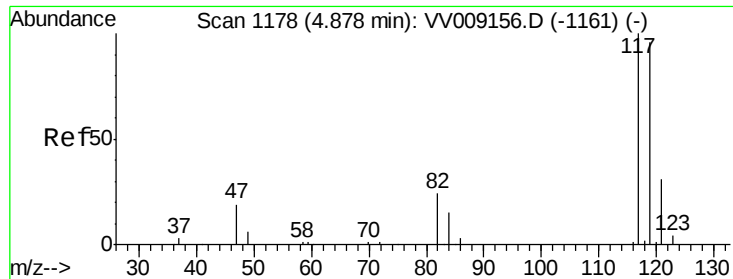
Ion Ratio Lower Upper

97 100

99 64.3 51.2 76.8

61 41.0 31.8 47.6





#32

Carbon tetrachloride

Concen: 5.443 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

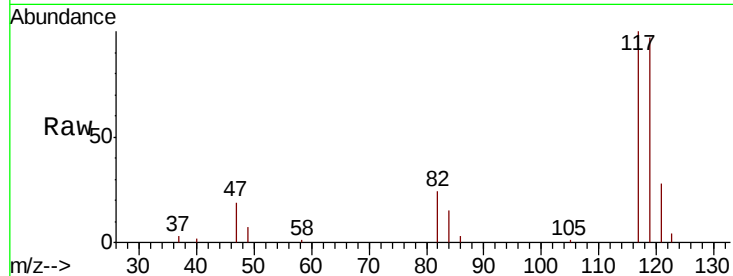
VSTD00563

Tgt Ion:117 Resp: 17127

Ion Ratio Lower Upper

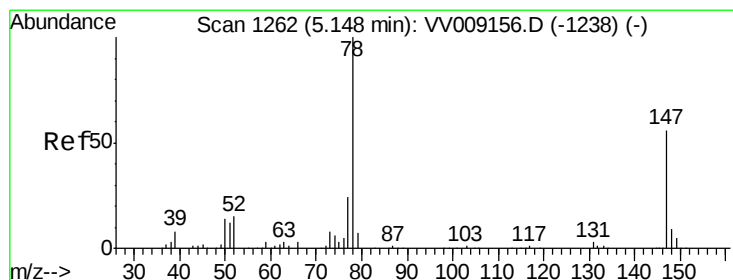
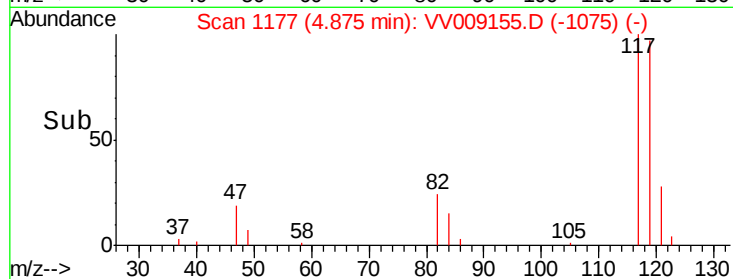
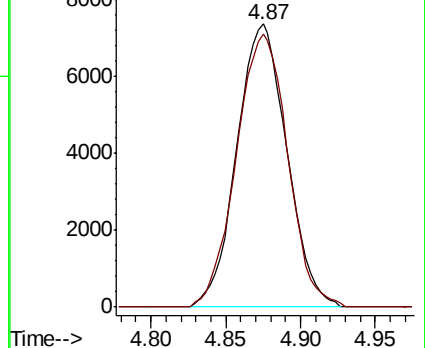
117 100

119 99.0 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 5.434 ug/L

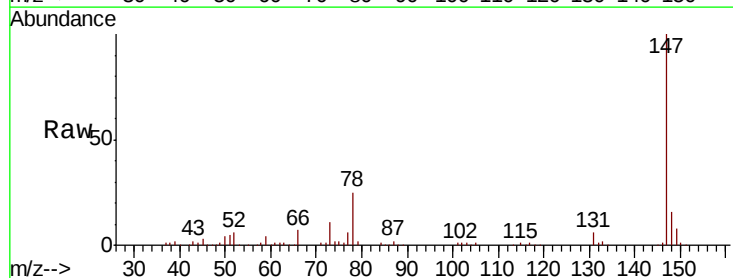
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

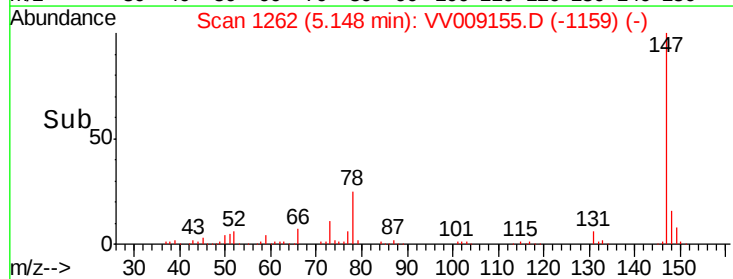
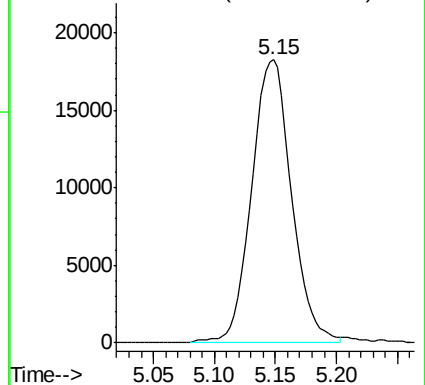
Lab File: VV009155.D

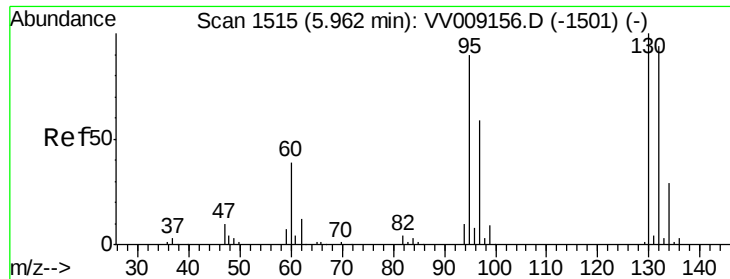
Acq: 04 Jan 2019 11:18

Tgt Ion: 78 Resp: 41307



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 5.518 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tgt Ion: 95 Resp: 12084

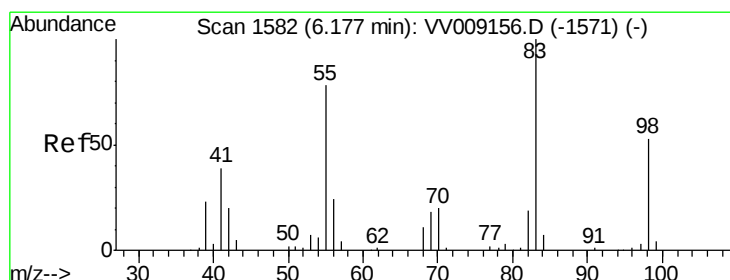
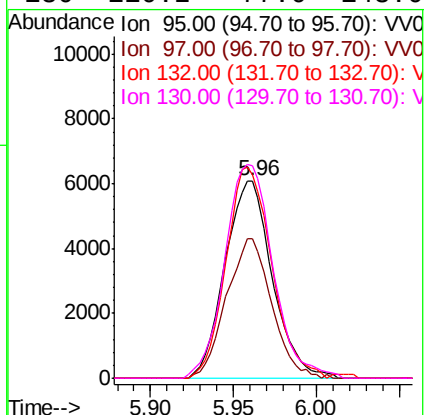
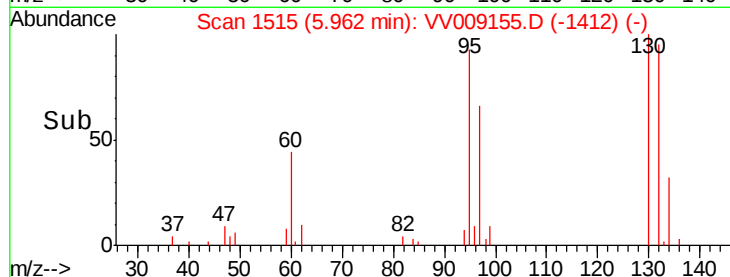
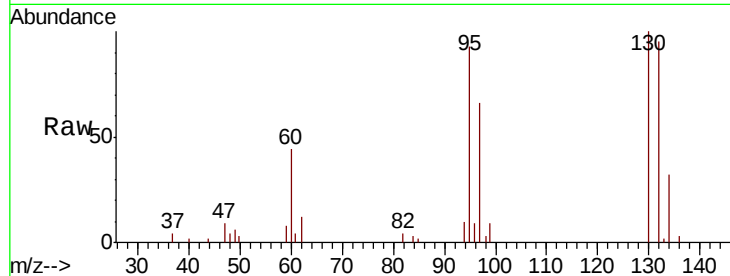
Ion Ratio Lower Upper

95 100

97 67.2 46.2 85.8

132 103.2 73.9 137.3

130 110.2 77.0 143.0



#36

Methylcyclohexane

Concen: 5.688 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

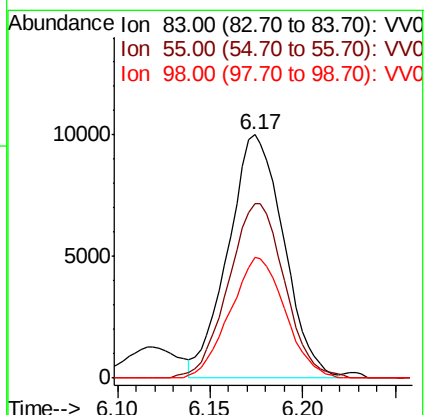
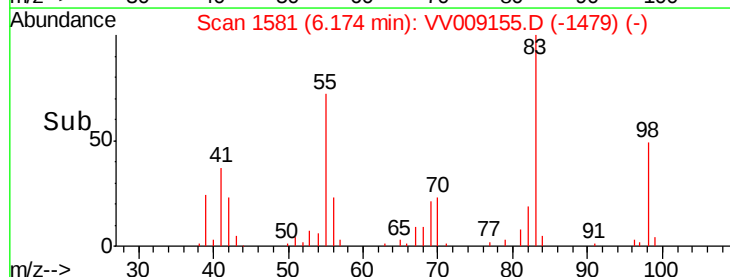
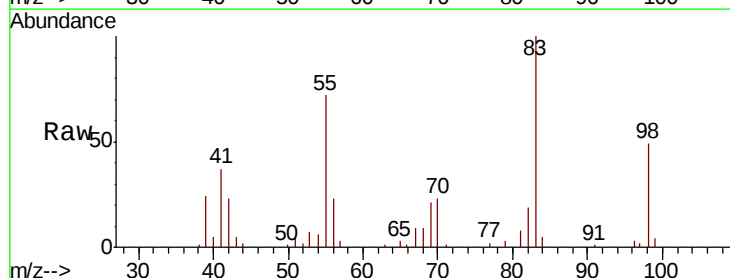
Tgt Ion: 83 Resp: 20812

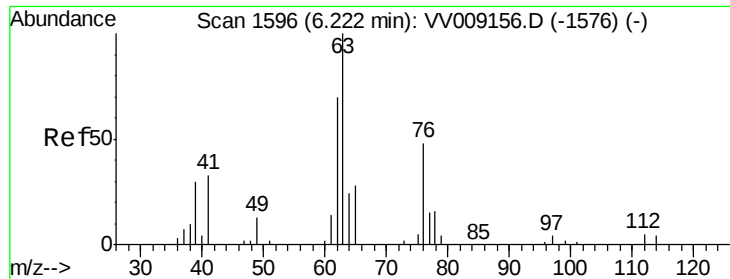
Ion Ratio Lower Upper

83 100

55 72.5 58.5 87.7

98 49.1 41.4 62.0

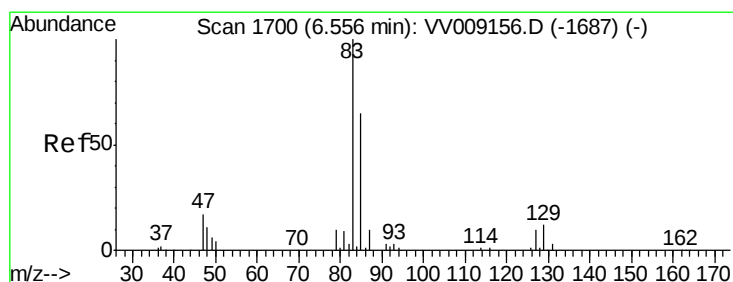
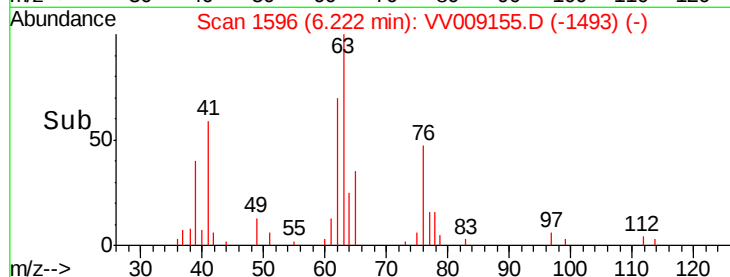
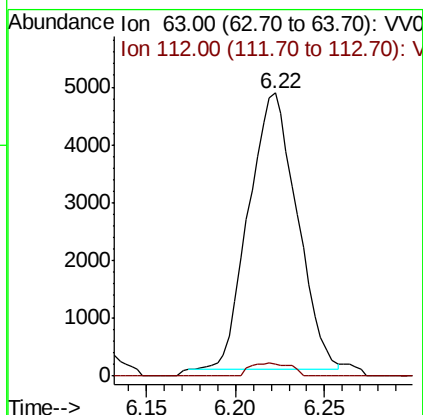
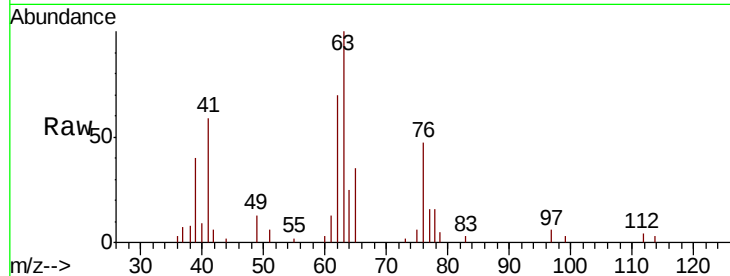




#40
 1,2-Dichloropropane
 Concen: 4.961 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

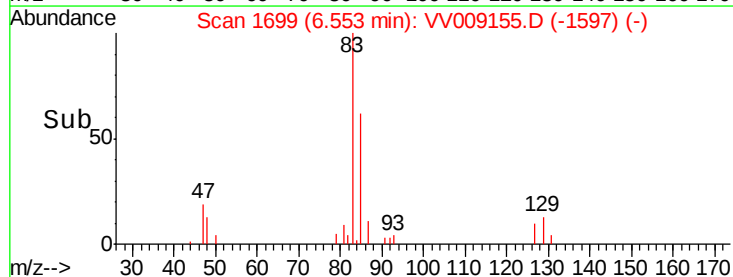
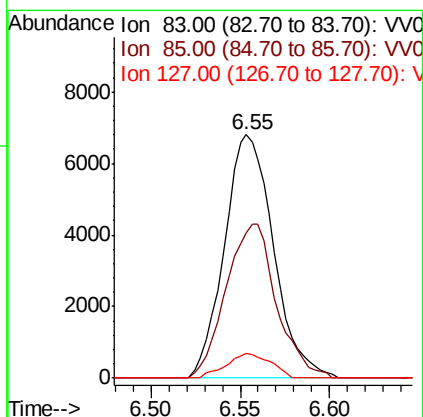
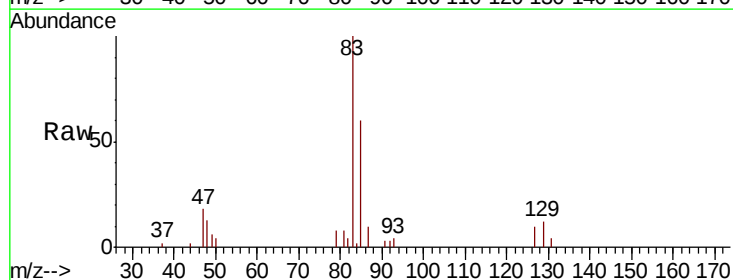
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

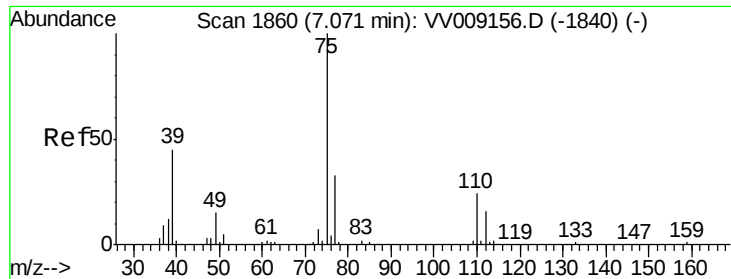
Tgt Ion: 63 Resp: 9090
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.9 5.9



#41
 Bromodichloromethane
 Concen: 5.194 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 83 Resp: 13044
 Ion Ratio Lower Upper
 83 100
 85 59.6 45.3 84.1
 127 9.9 7.8 11.6





#42

cis-1,3-Dichloropropene

Concen: 4.699 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

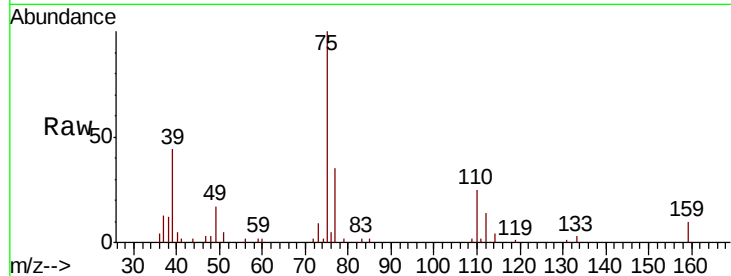
VSTD00563

Tgt Ion: 75 Resp: 13642

Ion Ratio Lower Upper

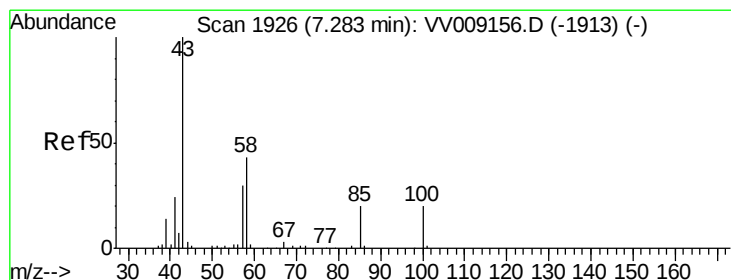
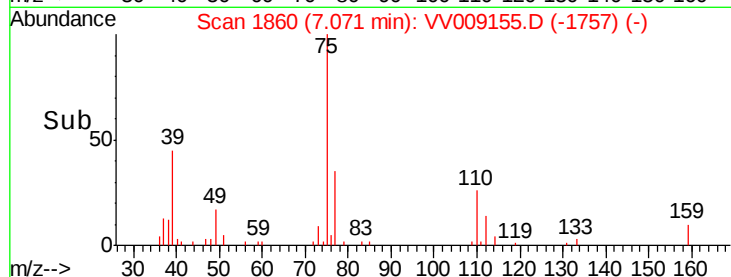
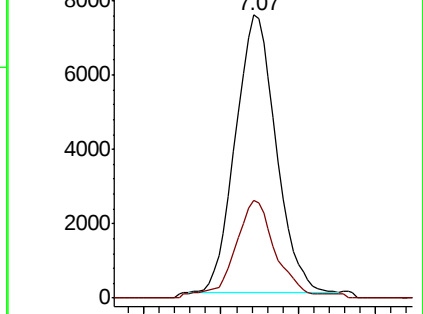
75 100

77 34.7 22.8 42.4



Abundance Ion 75.00 (74.70 to 75.70): VV009156.D (-1840) (-)

Ion 77.00 (76.70 to 77.70): VV009156.D (-1840) (-)



#43

4-Methyl-2-pentanone

Concen: 10.056 ug/L

RT: 7.29 min Scan# 1927

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

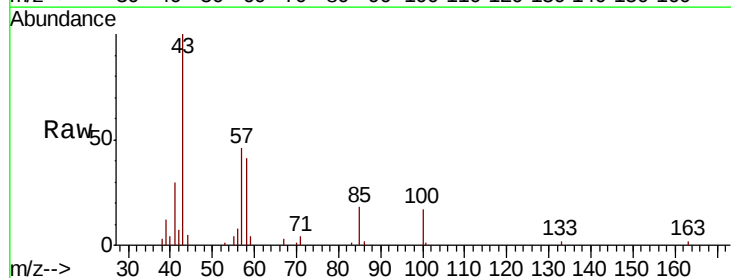
Tgt Ion: 43 Resp: 17562

Ion Ratio Lower Upper

43 100

58 37.8 33.4 50.2

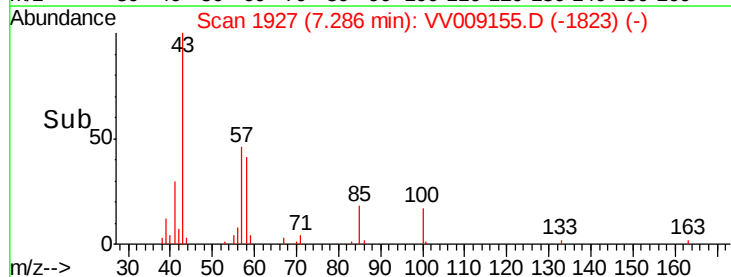
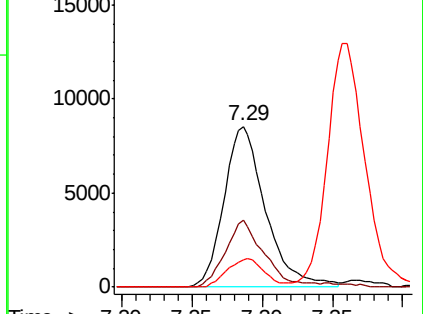
100 15.6 15.2 22.8

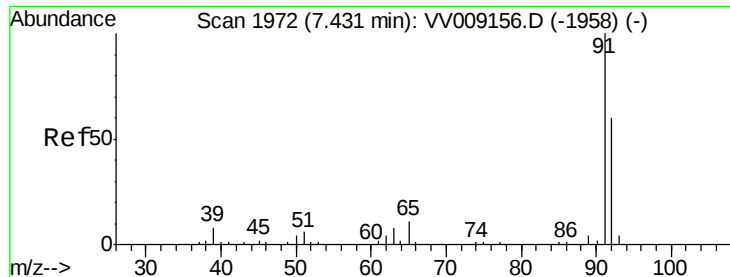


Abundance Ion 43.00 (42.70 to 43.70): VV009156.D (-1913) (-)

Ion 58.00 (57.70 to 58.70): VV009156.D (-1913) (-)

Ion 100.00 (99.70 to 100.70): VV009156.D (-1913) (-)





#44

Toluene

Concen: 5.280 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

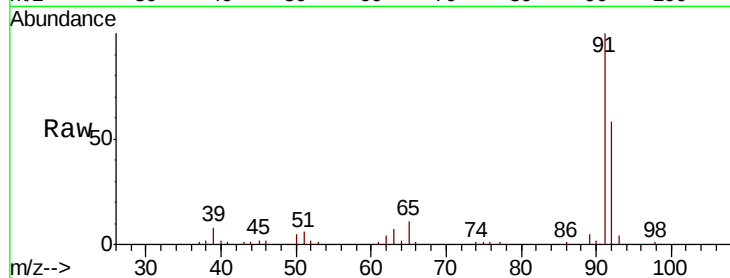
VSTD00563

Tgt Ion: 91 Resp: 43274

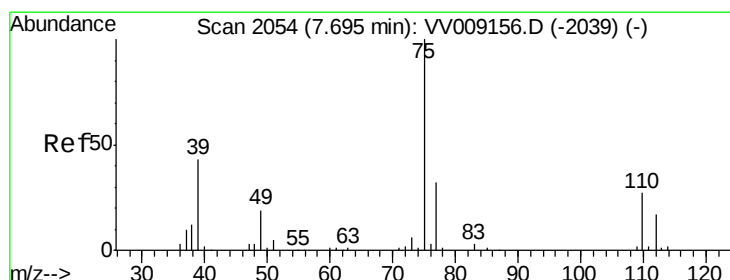
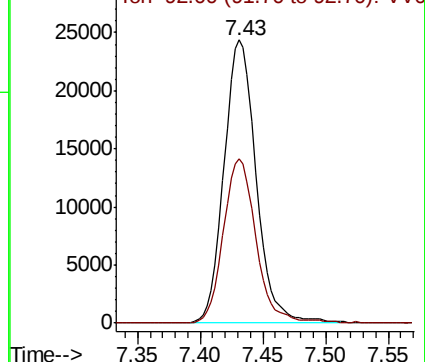
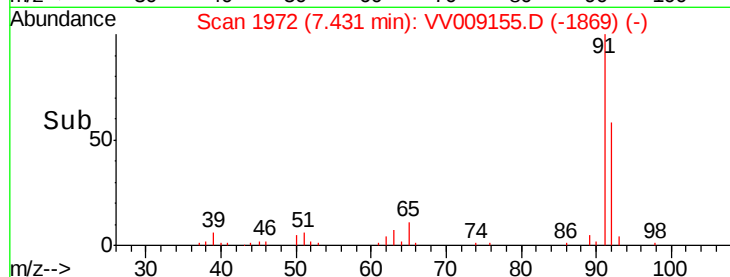
Ion Ratio Lower Upper

91 100

92 58.1 41.7 77.5



Abundance Ion 91.00 (90.70 to 91.70): VV009155.D (-1869) (-)



#45

trans-1,3-Dichloropropene

Concen: 5.050 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009155.D

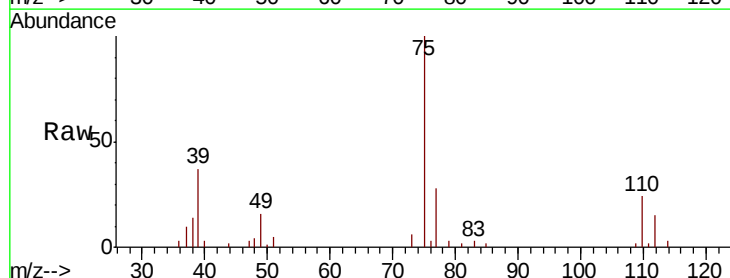
Acq: 04 Jan 2019 11:18

Tgt Ion: 75 Resp: 12837

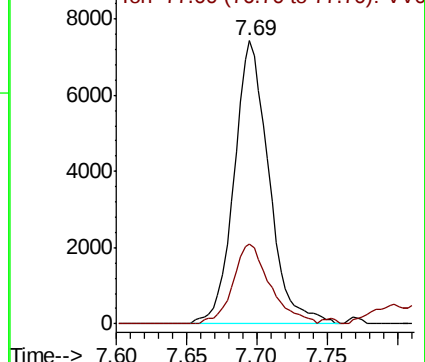
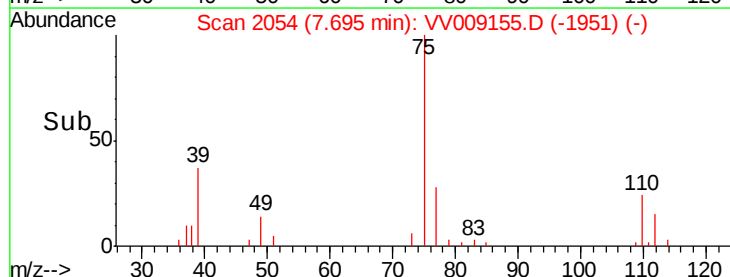
Ion Ratio Lower Upper

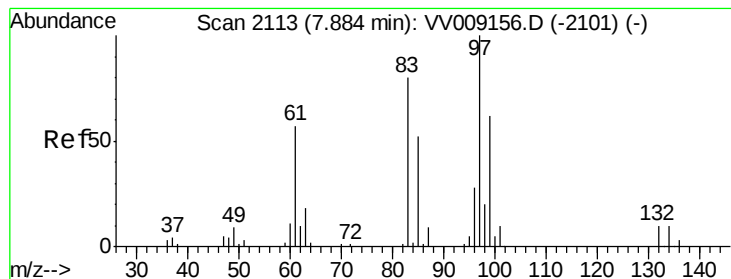
75 100

77 28.4 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV009155.D (-1951) (-)





#46

1,1,2-Trichloroethane

Concen: 5.043 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

Tgt Ion: 97 Resp: 8166

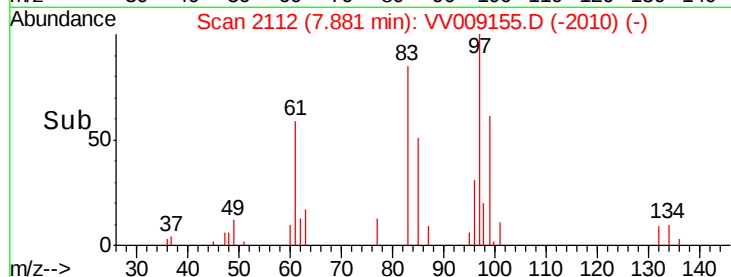
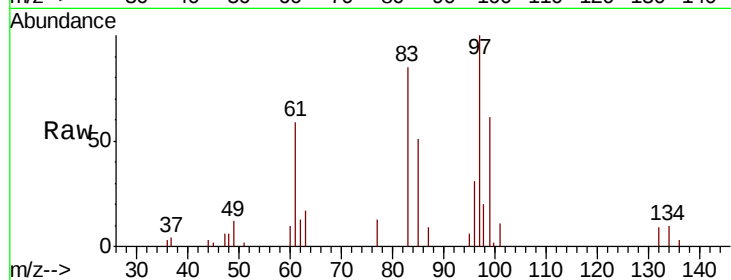
Ion Ratio Lower Upper

97 100

83 85.3 56.0 104.0

85 51.4 36.5 67.9

99 61.4 43.5 80.9

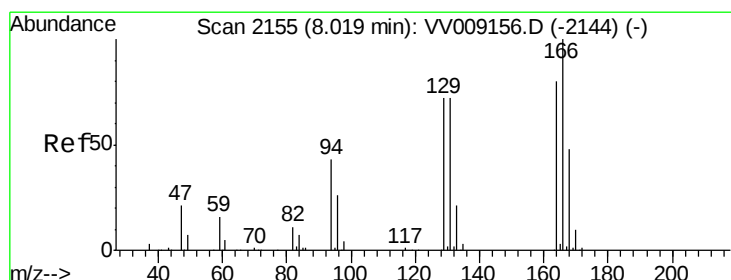
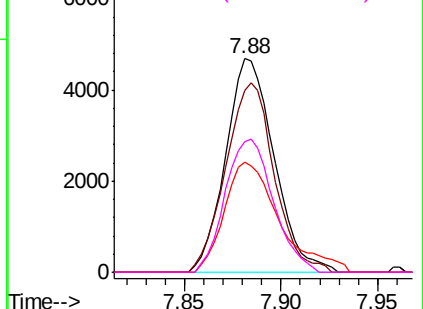


Abundance Ion 97.00 (96.70 to 97.70): VV009155.D (-2101) (-)

Ion 83.00 (82.70 to 83.70): VV009155.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV009155.D (-2101) (-)

Ion 99.00 (98.70 to 99.70): VV009155.D (-2101) (-)



#47

Tetrachloroethene

Concen: 5.916 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Tgt Ion: 164 Resp: 11225

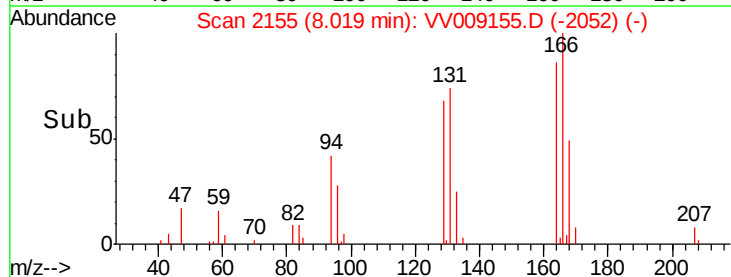
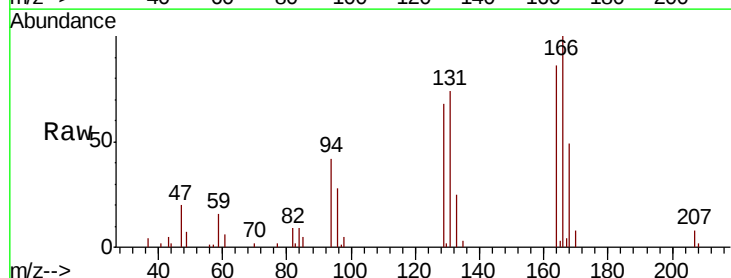
Ion Ratio Lower Upper

164 100

129 79.1 63.5 117.9

131 85.3 63.2 117.4

166 116.0 88.0 163.4

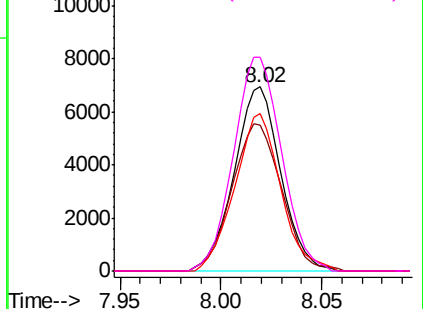


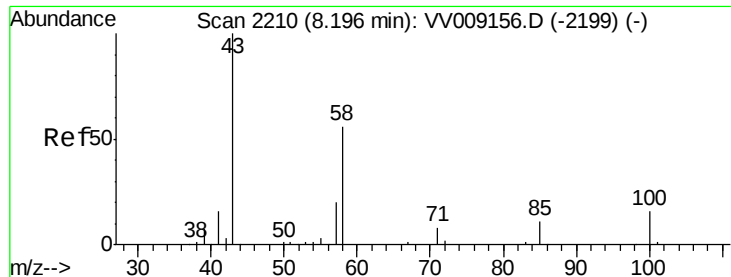
Abundance Ion 164.00 (163.70 to 164.70): VV009155.D (-2052) (-)

Ion 129.00 (128.70 to 129.70): VV009155.D (-2052) (-)

Ion 131.00 (130.70 to 131.70): VV009155.D (-2052) (-)

Ion 166.00 (165.70 to 166.70): VV009155.D (-2052) (-)

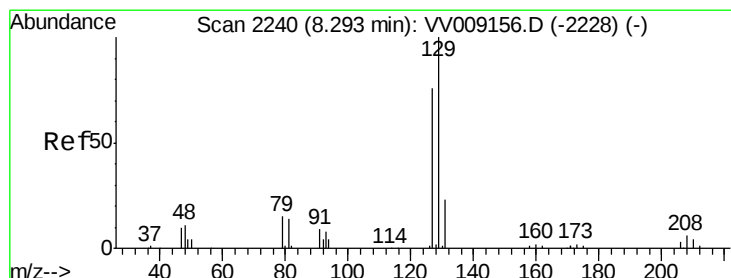
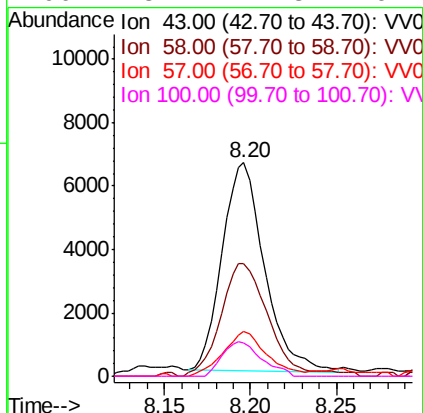
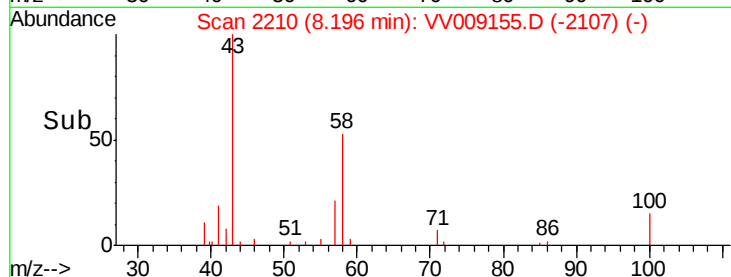
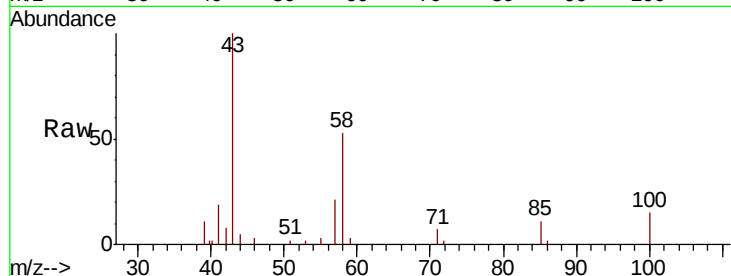




#49
2-Hexanone
Concen: 8.769 ug/L
RT: 8.20 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

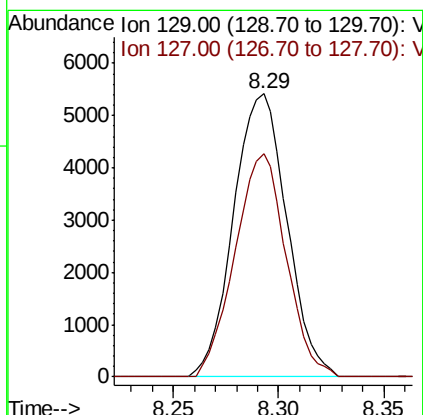
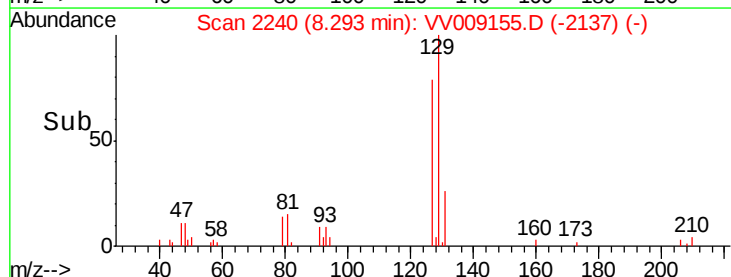
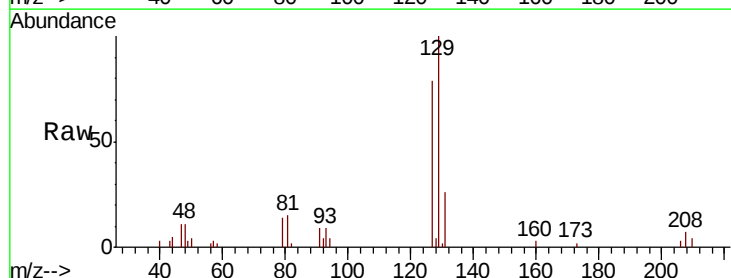
Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

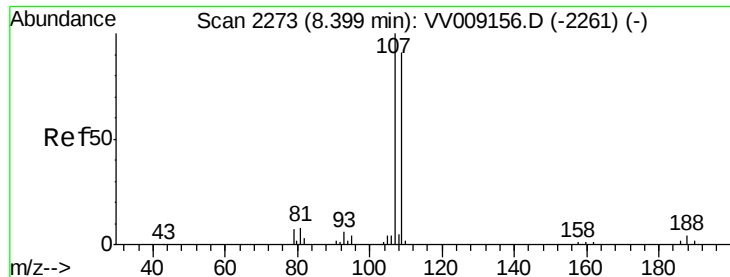
Tgt Ion: 43 Resp: 11271
Ion Ratio Lower Upper
43 100
58 59.4 46.7 70.1
57 22.0 15.5 23.3
100 15.2 12.8 19.2



#50
Dibromochloromethane
Concen: 4.786 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion: 129 Resp: 9520
Ion Ratio Lower Upper
129 100
127 78.9 53.1 98.7





#51

1,2-Dibromoethane

Concen: 4.872 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

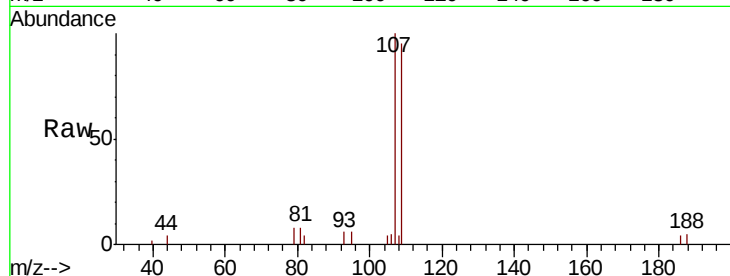
Tgt Ion:107 Resp: 8249

Ion Ratio Lower Upper

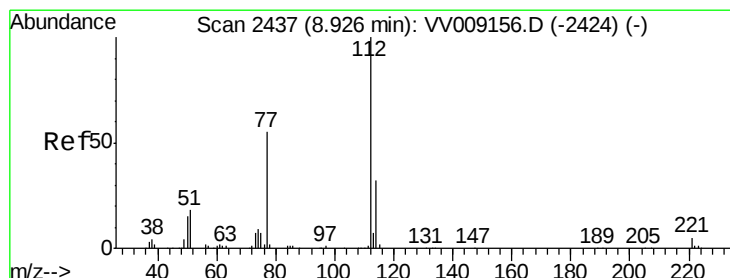
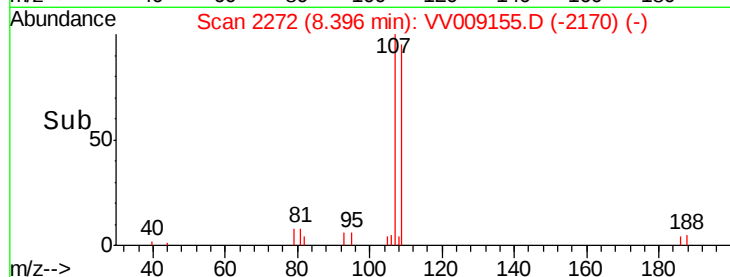
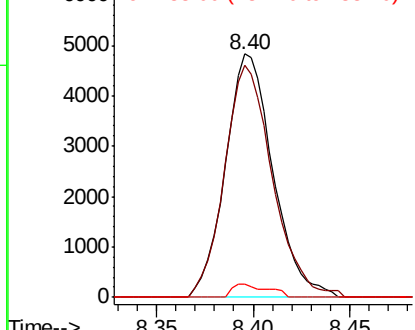
107 100

109 95.1 63.6 118.0

188 5.2 3.3 4.9#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 5.340 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

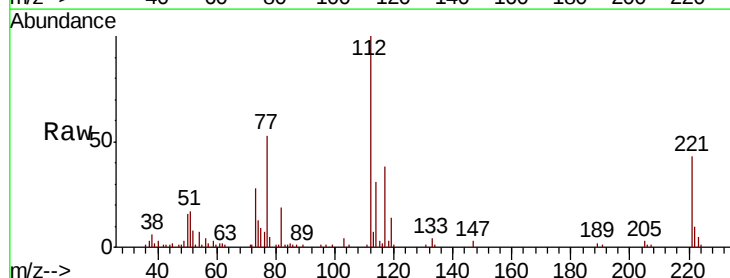
Tgt Ion:112 Resp: 30030

Ion Ratio Lower Upper

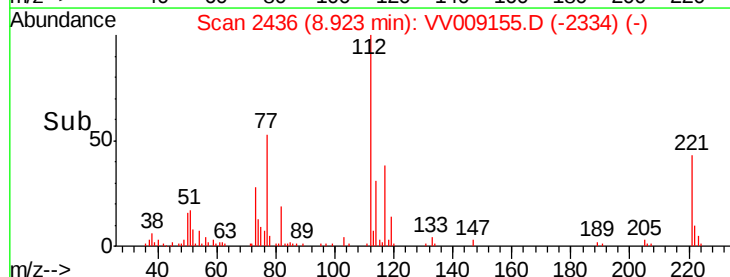
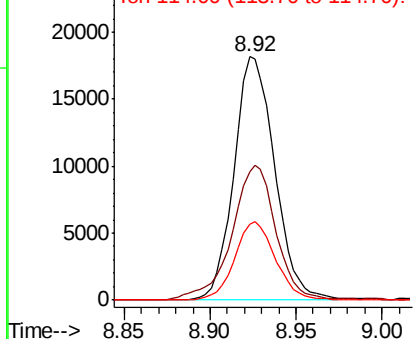
112 100

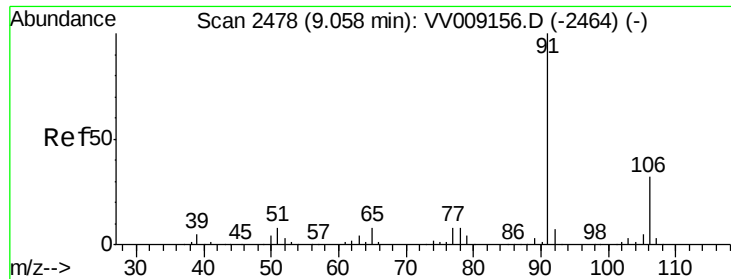
77 52.8 44.6 66.8

114 31.0 22.5 41.9



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 5.267 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

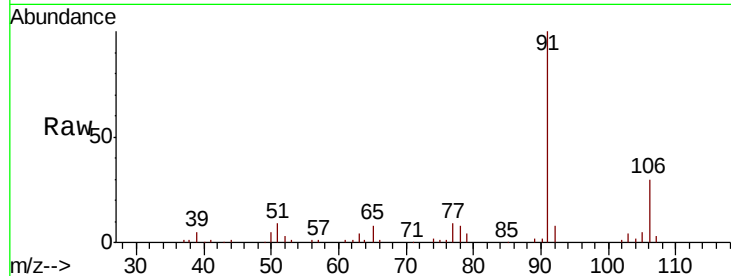
VSTD00563

Tgt Ion: 91 Resp: 48812

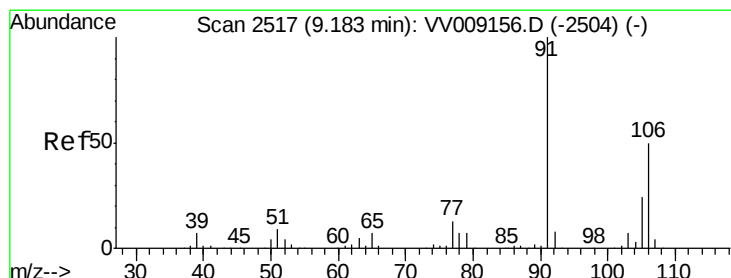
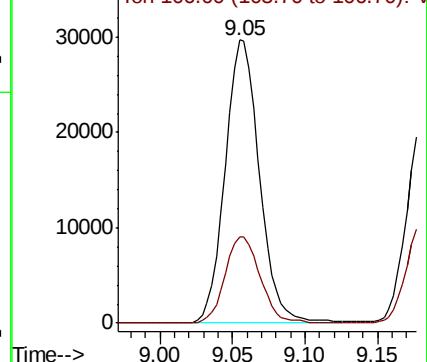
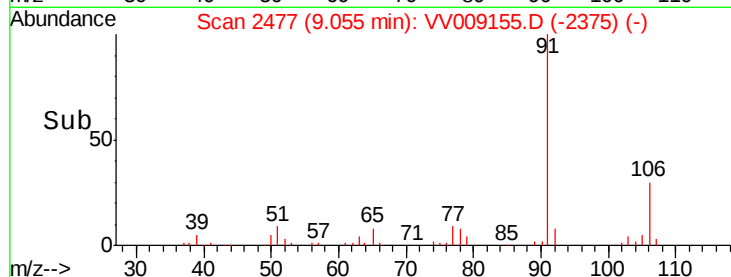
Ion Ratio Lower Upper

91 100

106 30.4 22.5 41.9



Abundance Ion 91.00 (90.70 to 91.70): VV009155.D (-2375) (-)



#54

m,p-Xylene

Concen: 4.994 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009155.D

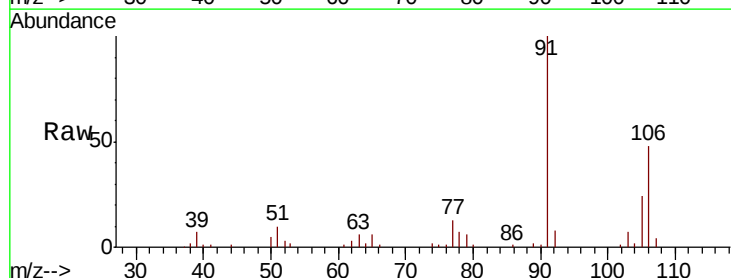
Acq: 04 Jan 2019 11:18

Tgt Ion: 106 Resp: 18034

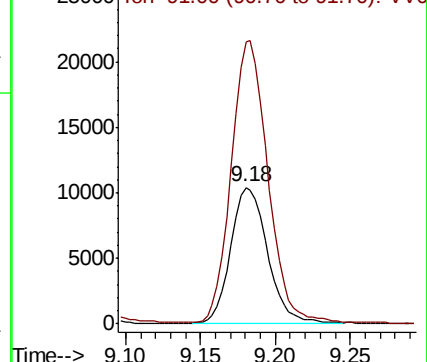
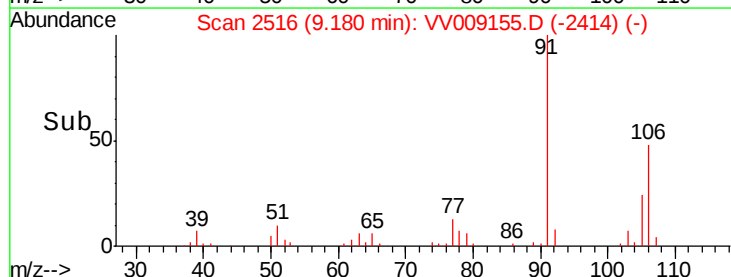
Ion Ratio Lower Upper

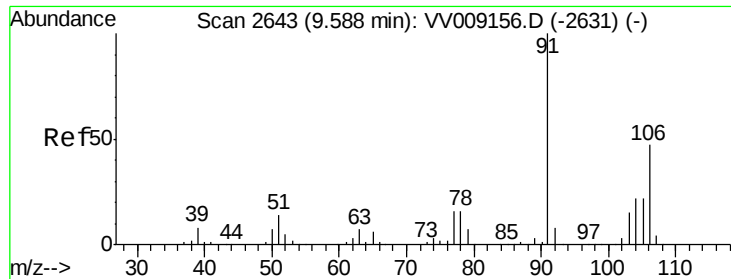
106 100

91 206.9 138.9 257.9



Abundance Ion 106.00 (105.70 to 106.70): VV009155.D (-2414) (-)

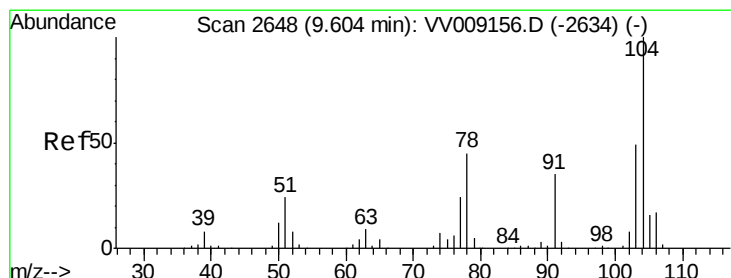
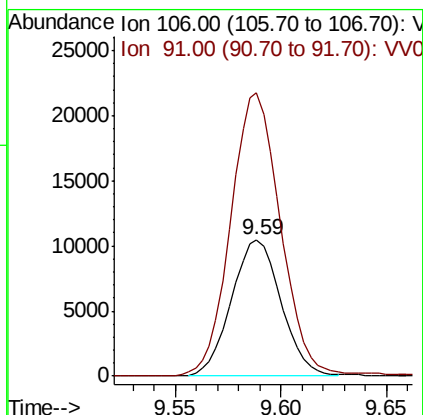
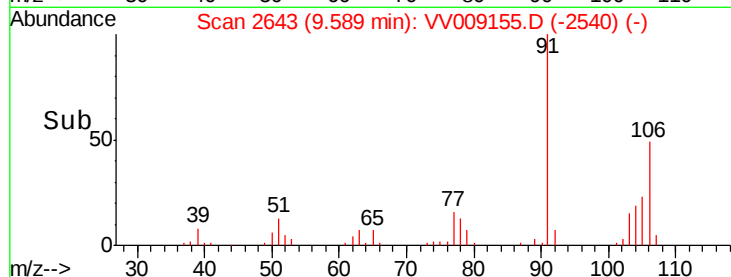
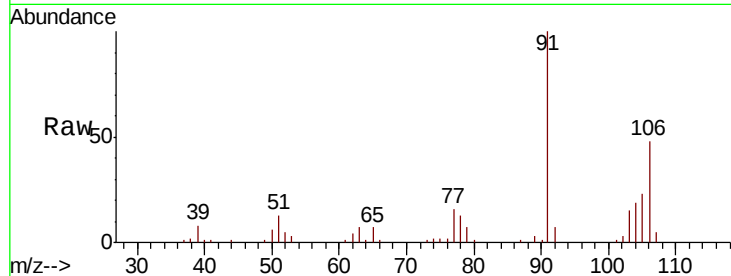




#55
o-xylene
Concen: 5.150 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

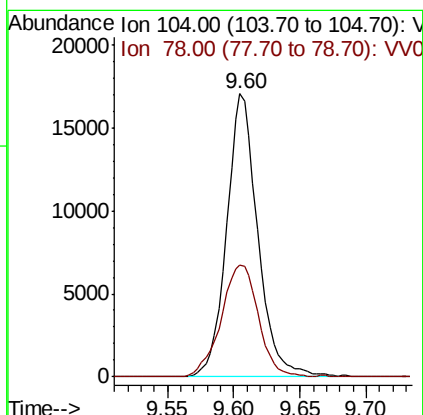
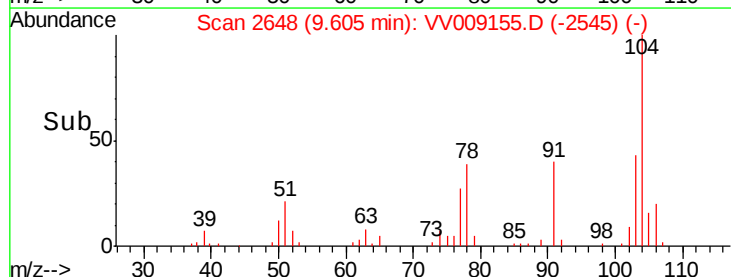
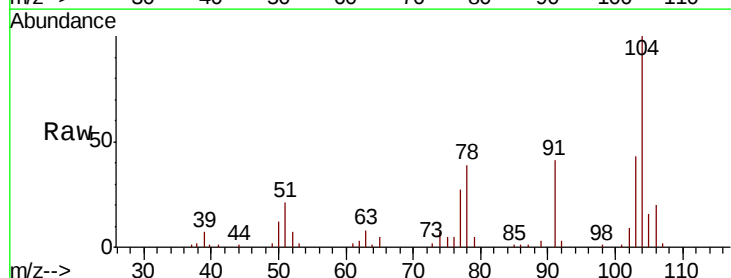
Instrument :
MSVOA_V
ClientSampleId :
VSTD00563

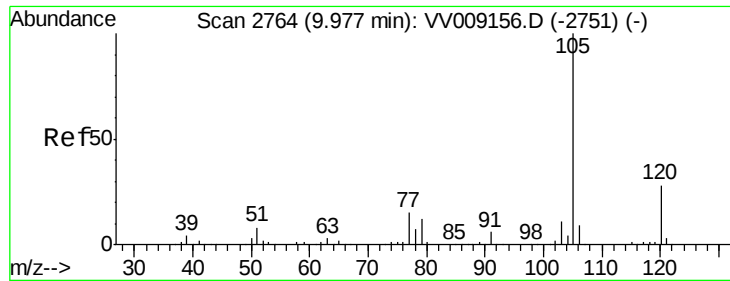
Tgt Ion:106 Resp: 17196
Ion Ratio Lower Upper
106 100
91 207.1 148.7 276.1



#56
Styrene
Concen: 4.950 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009155.D
Acq: 04 Jan 2019 11:18

Tgt Ion:104 Resp: 27874
Ion Ratio Lower Upper
104 100
78 39.3 31.6 58.8





#57

Isopropylbenzene

Concen: 5.159 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

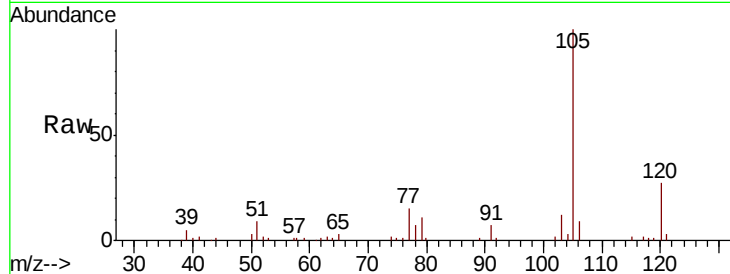
Tgt Ion: 105 Resp: 47794

Ion Ratio Lower Upper

105 100

120 26.2 21.9 32.9

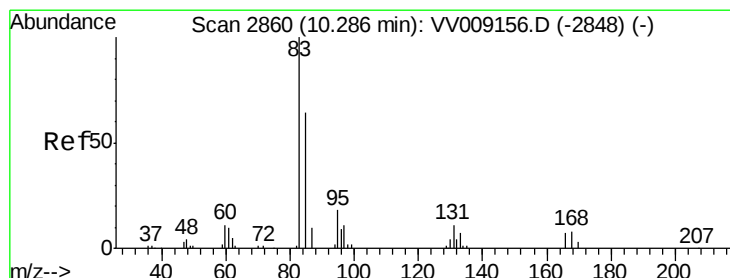
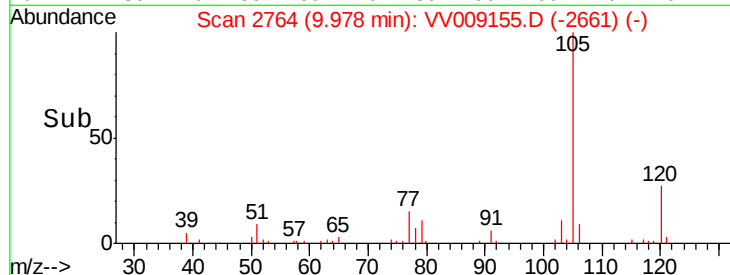
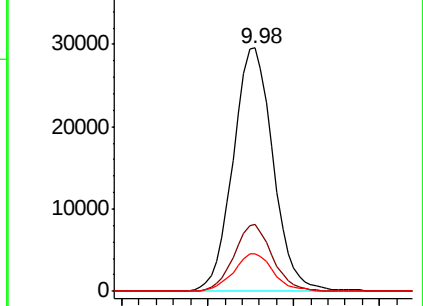
77 15.4 12.1 18.1



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: 4.963 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

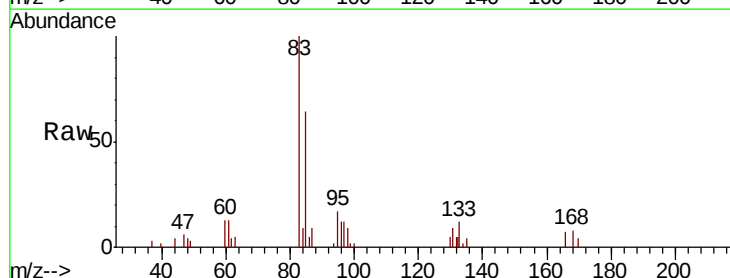
Tgt Ion: 83 Resp: 10768

Ion Ratio Lower Upper

83 100

85 64.3 45.4 84.2

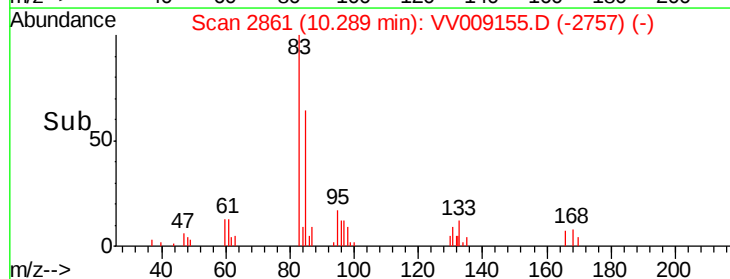
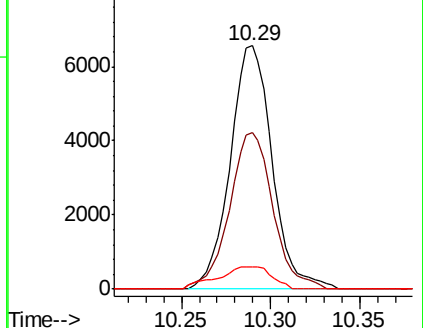
131 14.0 9.4 14.0

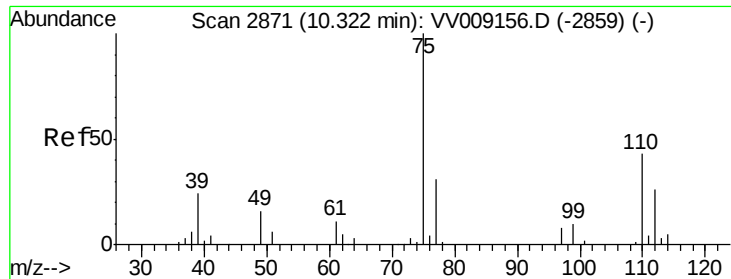


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

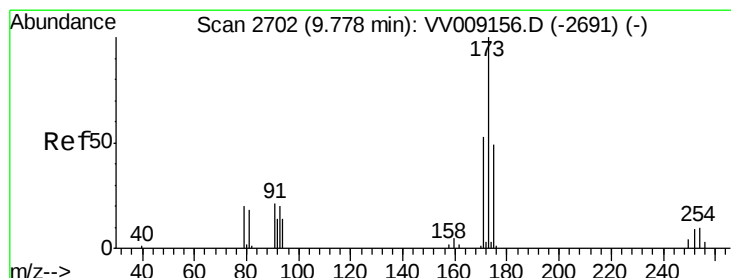
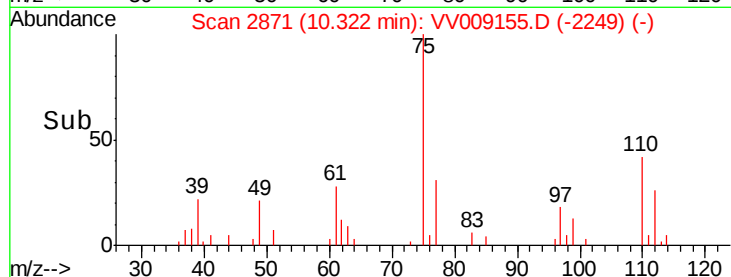
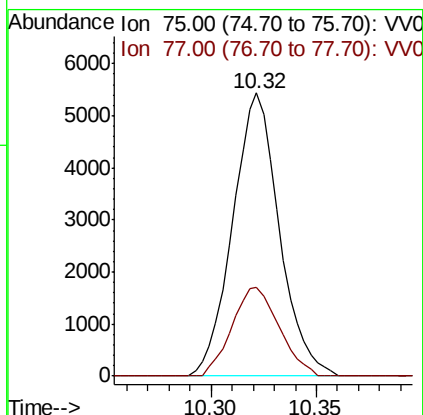
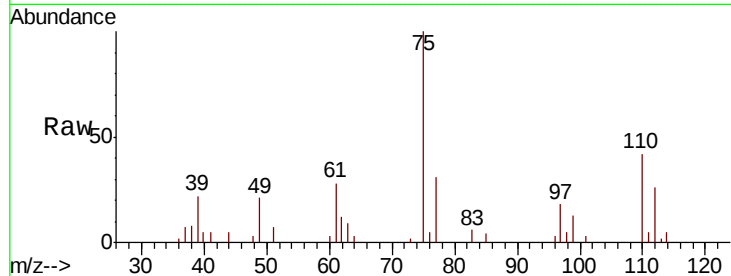




#59
 1,2,3-Trichloropropane
 Concen: 4.813 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

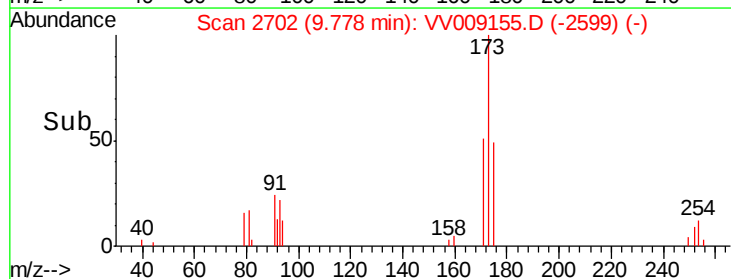
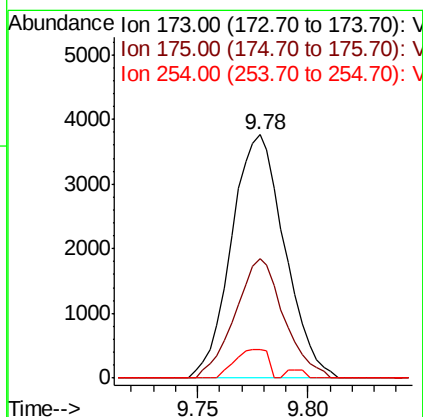
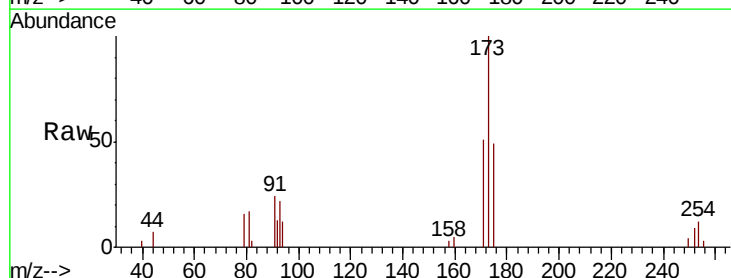
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

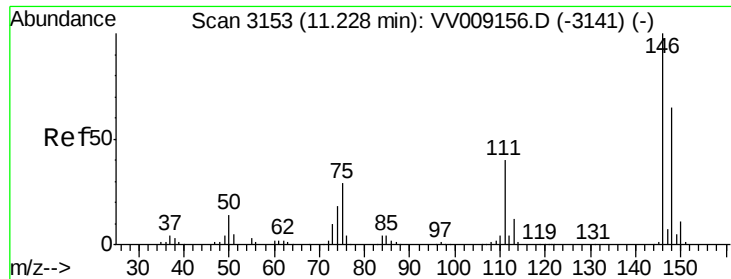
Tgt Ion: 75 Resp: 8346
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.0 37.6



#62
 Bromoform
 Concen: 5.056 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion: 173 Resp: 6292
 Ion Ratio Lower Upper
 173 100
 175 45.2 38.4 57.6
 254 7.4 8.0 12.0#

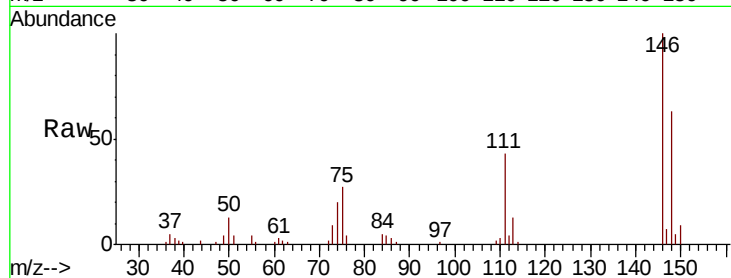




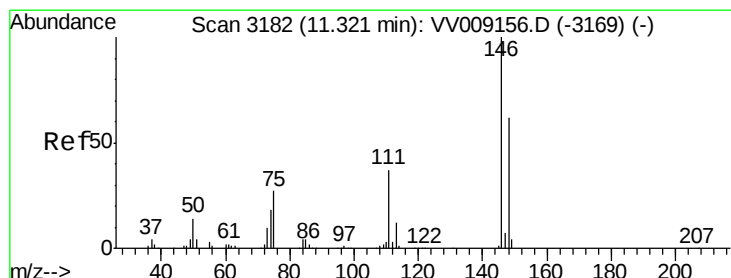
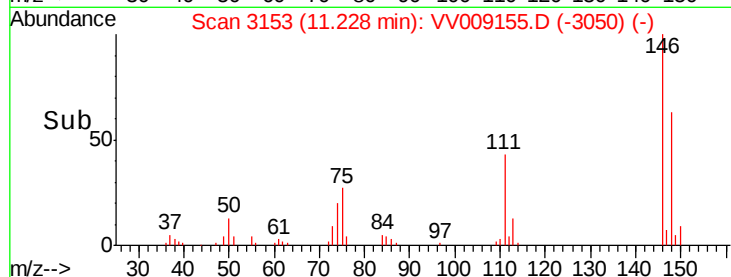
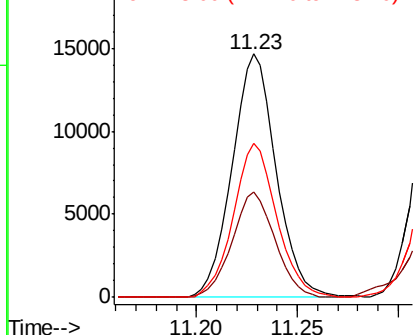
#63
 1,3-Dichlorobenzene
 Concen: 5.034 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion:146 Resp: 22350
 Ion Ratio Lower Upper
 146 100
 111 43.0 28.0 52.0
 148 63.0 45.6 84.8

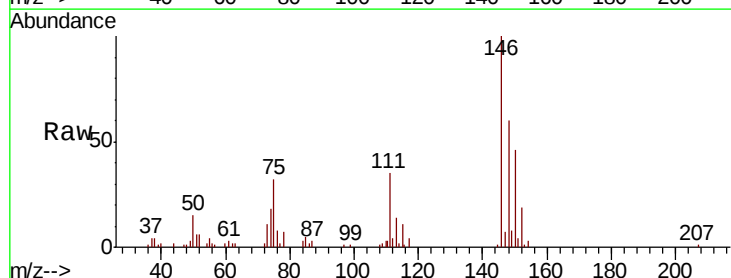


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

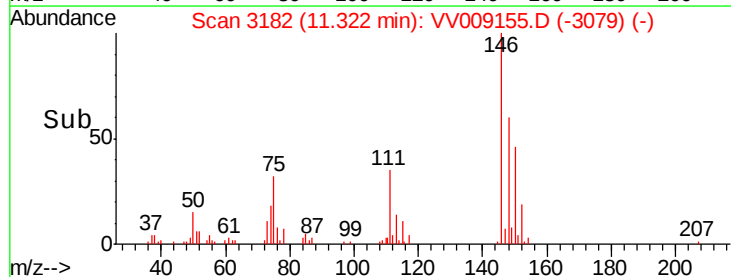
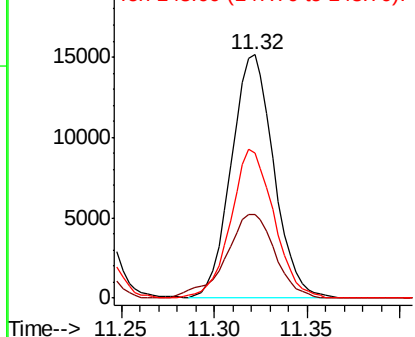


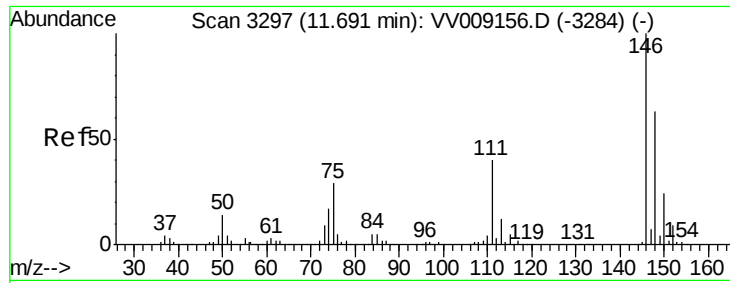
#64
 1,4-Dichlorobenzene
 Concen: 5.222 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion:146 Resp: 24166
 Ion Ratio Lower Upper
 146 100
 111 34.5 26.0 48.4
 148 59.6 43.4 80.6



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: 5.168 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampleId :

VSTD00563

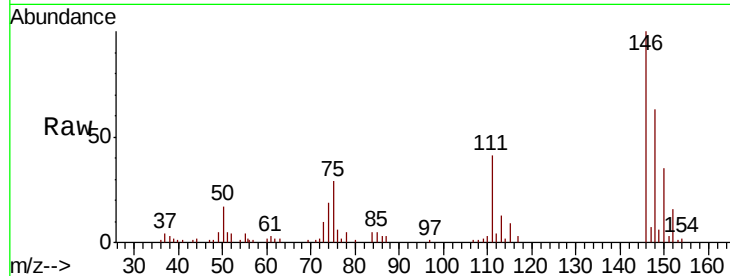
Tgt Ion: 146 Resp: 21855

Ion Ratio Lower Upper

146 100

111 40.8 32.2 48.4

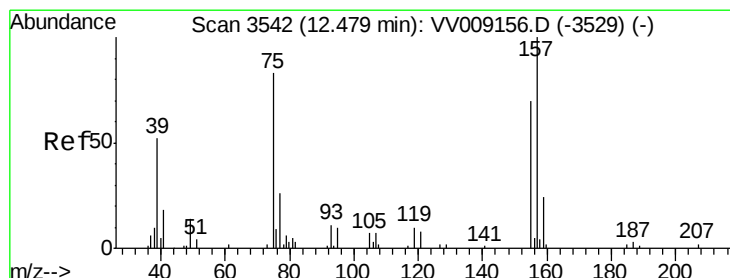
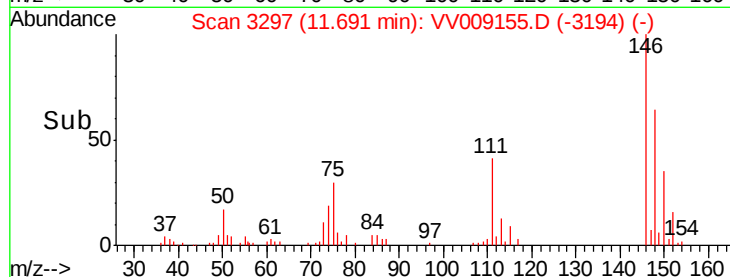
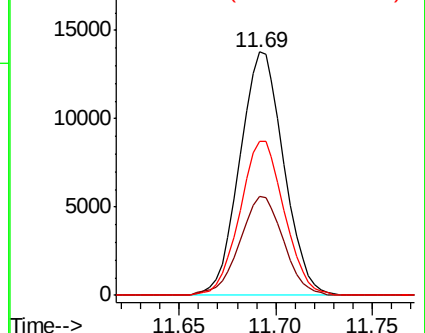
148 63.4 50.4 75.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.920 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

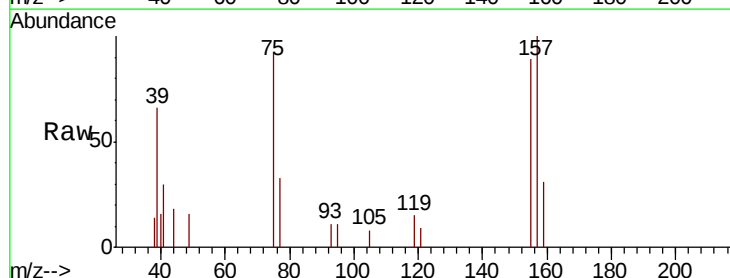
Tgt Ion: 75 Resp: 2160

Ion Ratio Lower Upper

75 100

157 108.9 96.9 145.3

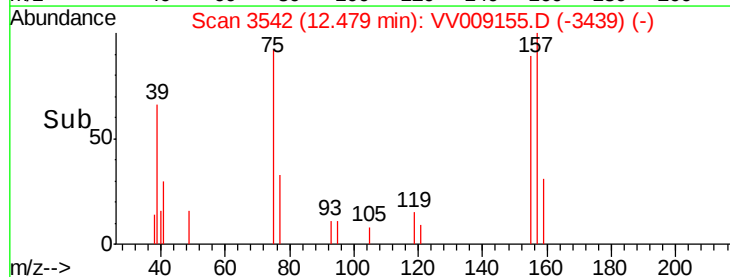
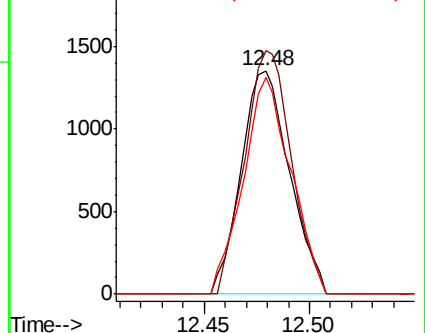
155 97.0 68.0 102.0

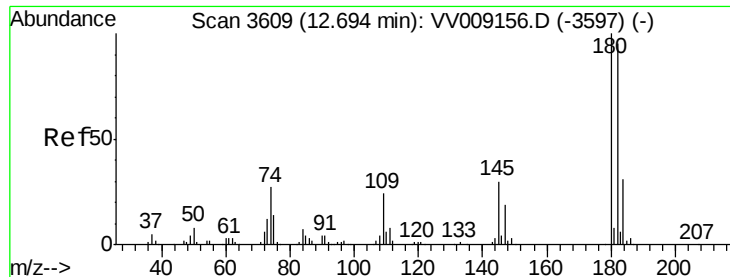


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

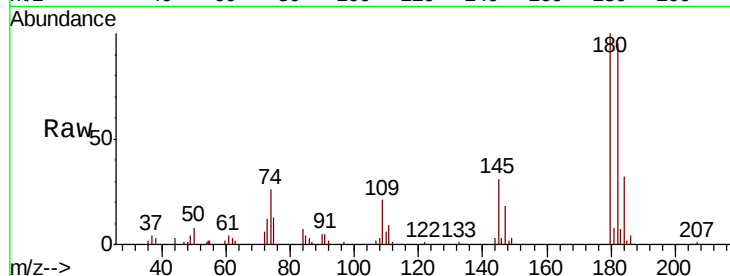




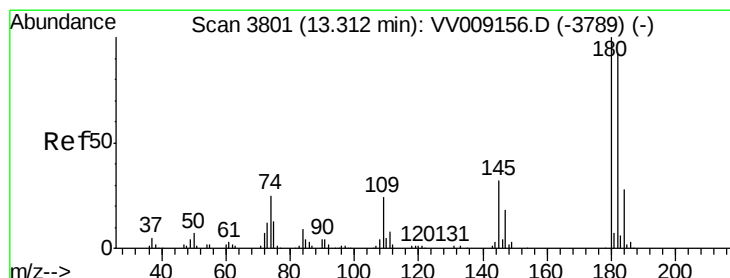
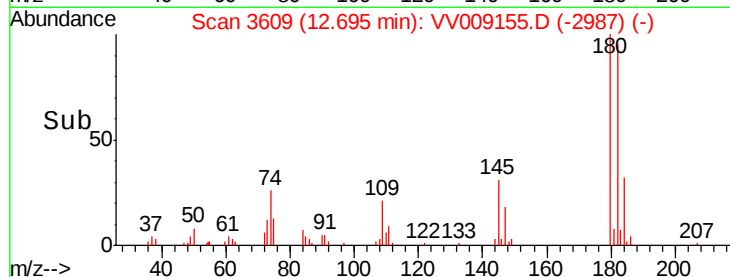
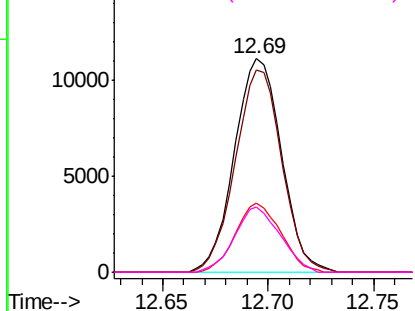
#67
 1,3,5-Trichlorobenzene
 Concen: 4.818 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00563

Tgt Ion:180 Resp: 17252
 Ion Ratio Lower Upper
 180 100
 182 93.5 75.3 112.9
 184 31.3 24.6 37.0
 145 29.6 23.9 35.9

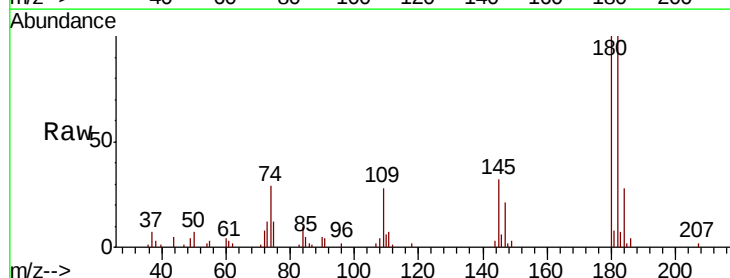


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

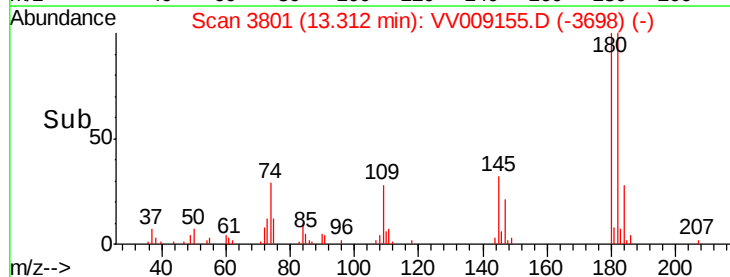
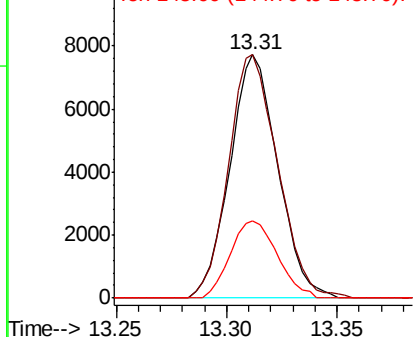


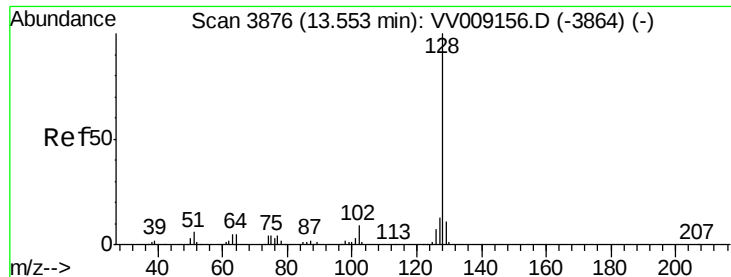
#68
 1,2,4-trichlorobenzene
 Concen: 4.000 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009155.D
 Acq: 04 Jan 2019 11:18

Tgt Ion:180 Resp: 11658
 Ion Ratio Lower Upper
 180 100
 182 102.6 76.2 114.4
 145 31.1 25.4 38.0



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: 3.015 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

Instrument :

MSVOA_V

ClientSampled :

VSTD00563

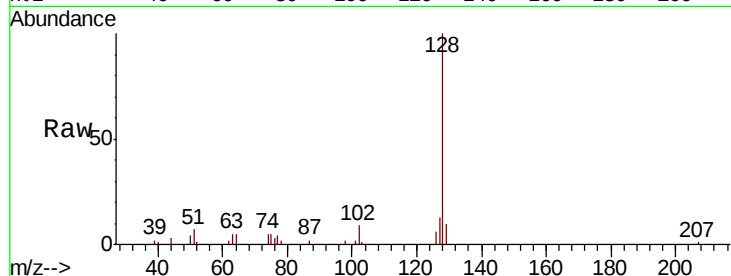
Tgt Ion:128 Resp: 17895

Ion Ratio Lower Upper

128 100

129 10.0 9.0 13.4

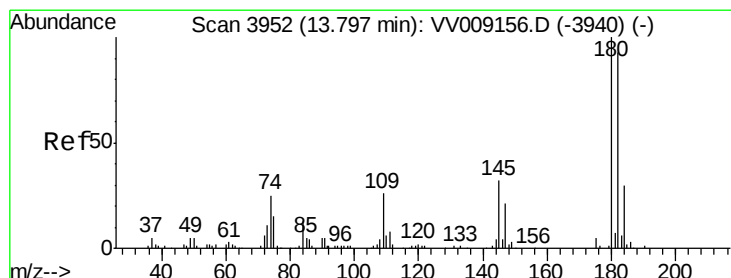
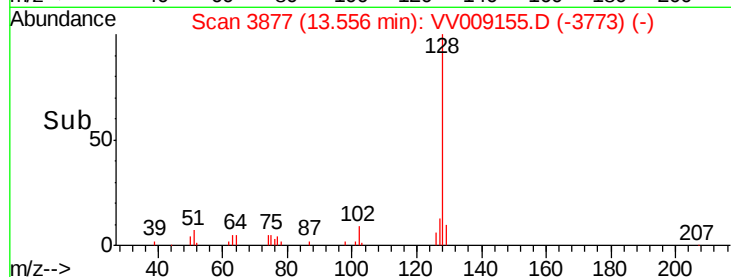
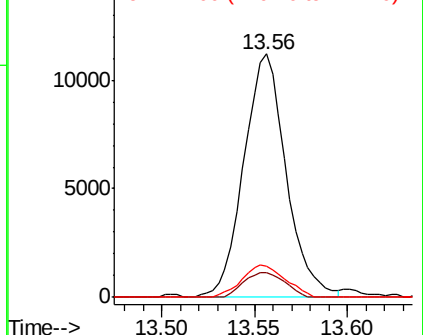
127 13.5 10.4 15.6



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: 3.912 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009155.D

Acq: 04 Jan 2019 11:18

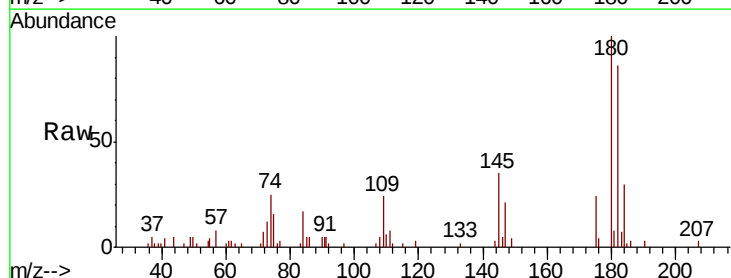
Tgt Ion:180 Resp: 10462

Ion Ratio Lower Upper

180 100

182 93.2 74.4 111.6

145 34.3 25.7 38.5



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

