

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012106.D
 Acq On : 06 Aug 2019 09:57
 Operator : SY/MD
 Sample : VSTD00563
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

Quant Time: Aug 06 17:55:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 17:52:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	212636	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	194498	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	99176	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	7017	6.04	ug/L	0.00
7) Chloroethane-d5	1.59	69	5643	6.84	ug/L	0.02
11) 1,1-Dichloroethene-d2	2.13	63	12770	6.34	ug/L	0.00
21) 2-Butanone-d5	3.94	46	9463	11.17	ug/L	0.02
24) Chloroform-d	4.40	84	17914	6.14	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	11652	6.22	ug/L	0.00
32) Benzene-d6	5.10	84	35100	6.27	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	10521	6.49	ug/L	0.00
41) Toluene-d8	7.36	98	33111	6.14	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	5341	5.79	ug/L	0.00
47) 2-Hexanone-d5	8.14	63	7175	10.66	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	14360	6.28	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	15001	6.43	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	6789	4.520 ug/L	93
3) Chloromethane	1.25	50	5215	4.890 ug/L	98
5) Vinyl chloride	1.33	62	4733	4.598 ug/L	95
6) Bromomethane	1.54	94	2927	4.898 ug/L	96
8) Chloroethane	1.60	64	2679	4.969 ug/L	99
9) Trichlorofluoromethane	1.77	101	7348	4.390 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3728	4.544 ug/L	95
12) 1,1-Dichloroethene	2.14	96	3694	4.782 ug/L #	77
13) Acetone	2.19	43	7184	12.441 ug/L	100
14) Carbon disulfide	2.32	76	11934	4.571 ug/L	99
15) Methyl Acetate	2.46	43	4895	4.845 ug/L	95
16) Methylene chloride	2.54	84	5581	4.761 ug/L	95
17) trans-1,2-Dichloroethene	2.79	96	4939	4.528 ug/L	91
18) Methyl tert-butyl Ether	2.80	73	16303	4.349 ug/L #	87
19) 1,1-Dichloroethane	3.23	63	9173	4.611 ug/L	91
20) cis-1,2-Dichloroethene	3.96	96	5840	4.545 ug/L	95
22) 2-Butanone	4.03	43	6404	8.606 ug/L	83
23) Bromochloromethane	4.30	128	3162	4.475 ug/L	90
25) Chloroform	4.42	83	10311	4.573 ug/L	98
27) 1,2-Dichloroethane	5.18	62	8070	4.605 ug/L	97
29) Cyclohexane	4.73	56	7004	4.306 ug/L	92
30) 1,1,1-Trichloroethane	4.66	97	8793	4.256 ug/L	99
31) Carbon tetrachloride	4.87	117	8567	4.470 ug/L	100
33) Benzene	5.15	78	20197	4.511 ug/L	100
34) Trichloroethene	5.96	95	5613	4.510 ug/L	95
35) Methylcyclohexane	6.18	83	8131	4.390 ug/L #	81
37) 1,2-Dichloropropane	6.22	63	4880	4.469 ug/L #	87
38) Bromodichloromethane	6.55	83	7624	4.438 ug/L	89
39) cis-1,3-Dichloropropene	7.07	75	8586	4.459 ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	11856	8.435 ug/L	100

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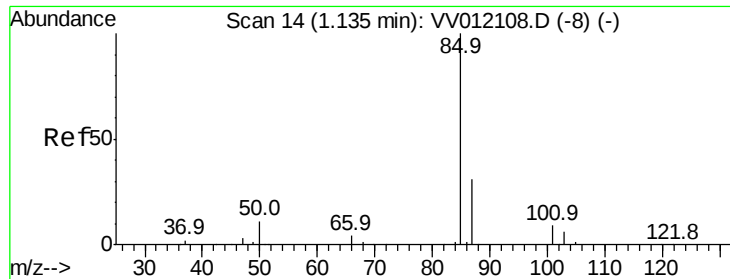
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	21645	4.351	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	7655	4.212	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	5146	4.371	ug/L	93
46) Tetrachloroethene	8.02	164	5477	4.724	ug/L	87
48) 2-Hexanone	8.19	43	8414	7.940	ug/L	96
49) Dibromochloromethane	8.29	129	6662	4.361	ug/L	96
50) 1,2-Dibromoethane	8.40	107	5789	4.447	ug/L	92
51) Chlorobenzene	8.92	112	14680	4.377	ug/L	96
52) Ethylbenzene	9.05	91	24162	4.329	ug/L	97
53) m,p-Xylene	9.18	106	9200	4.272	ug/L	91
54) o-Xylene	9.59	106	9220	4.315	ug/L	97
55) Styrene	9.60	104	14790	4.109	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	7521	4.155	ug/L	95
59) Bromoform	9.77	173	5113	4.395	ug/L	99
60) Isopropylbenzene	9.97	105	23450	4.319	ug/L	97
61) 1,2,3-Trichloropropane	10.32	75	6089	4.521	ug/L	91
62) 1,3,5-Trimethylbenzene	10.58	105	21209	4.559	ug/L	98
63) 1,2,4-Trimethylbenzene	10.96	105	20359	4.356	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	12657	4.620	ug/L	98
65) 1,4-Dichlorobenzene	11.32	146	12875	4.650	ug/L	96
67) 1,2-Dichlorobenzene	11.69	146	12387	4.432	ug/L	95
68) 1,2-Dibromo-3-chloropropan	12.47	75	1985	4.472	ug/L	83
69) 1,3,5-Trichlorobenzene	12.69	180	9226	4.155	ug/L	98
70) 1,2,4-trichlorobenzene	13.31	180	7820	4.061	ug/L	95
71) Naphthalene	13.55	128	17245	3.534	ug/L #	93
72) 1,2,3-Trichlorobenzene	13.79	180	7564	3.904	ug/L	98

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

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#2

Dichlorodifluoromethane

Concen: 4.520 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

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Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

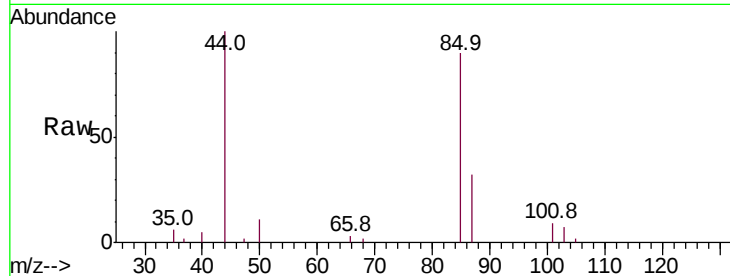
VSTD005631

Tot Ion: 85 Resp: 6789

Ion Ratio Lower Upper

85 100

87 35.3 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

8000

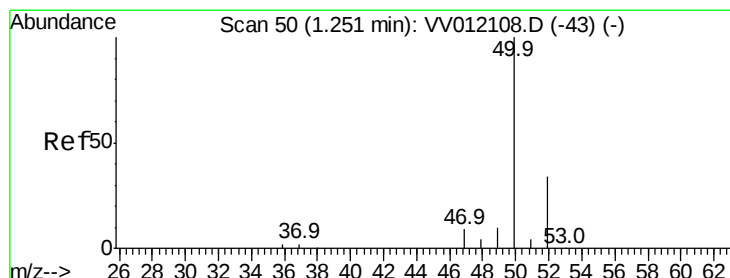
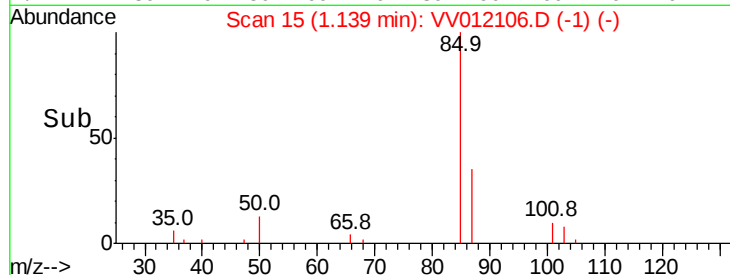
6000

4000

2000

0

Time--> 1.10 1.15



#3

Chloromethane

Concen: 4.890 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012106.D

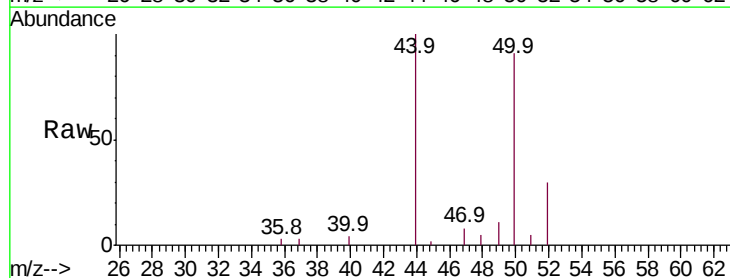
Acq: 06 Aug 2019 09:57

Tgt Ion: 50 Resp: 5215

Ion Ratio Lower Upper

50 100

52 32.7 23.9 44.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0

6000

5000

4000

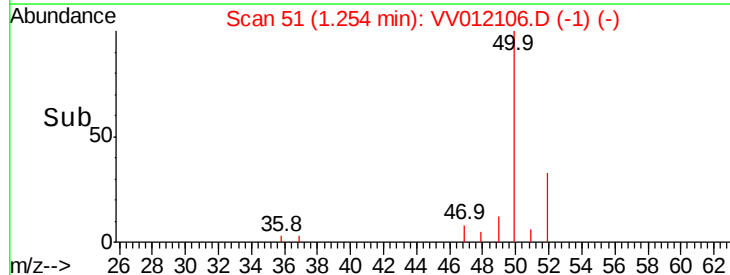
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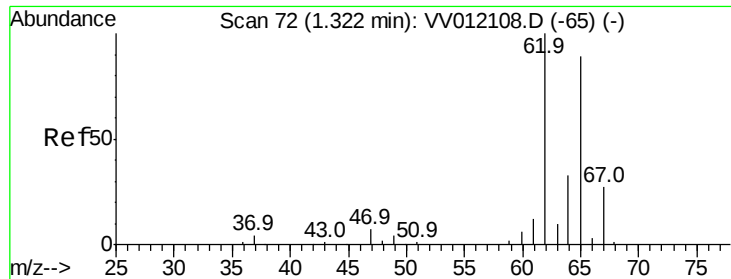
2000

1000

0

Time--> 1.22 1.24 1.26 1.28 1.30





#5

Vinyl chloride

Concen: 4.598 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

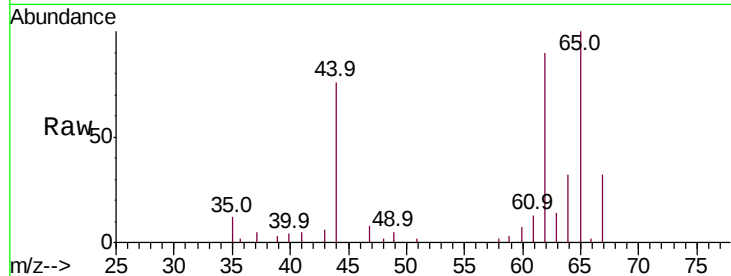
VSTD005631

Tot Ion: 62 Resp: 4733

Ion Ratio Lower Upper

62 100

64 35.7 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VV012108.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV012106.D (-39) (-)

1.33

4000

3000

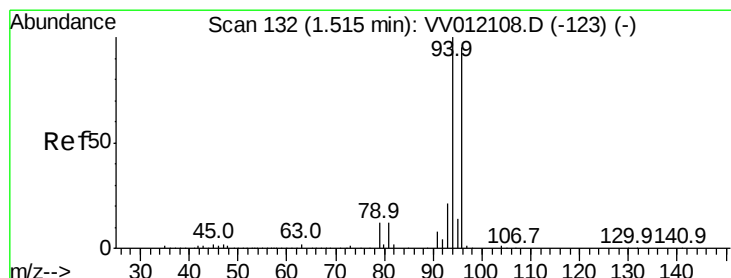
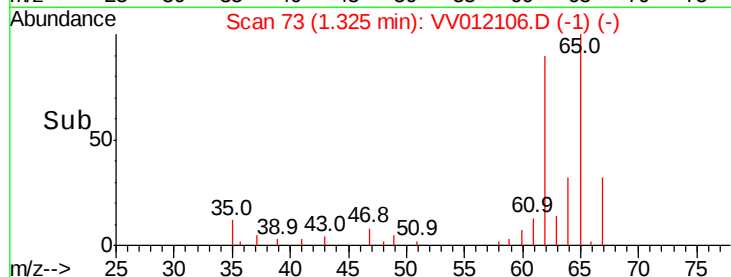
2000

1000

0

1.30 1.32 1.34 1.36

Time-->



#6

Bromomethane

Concen: 4.898 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.02 min

Lab File: VV012106.D

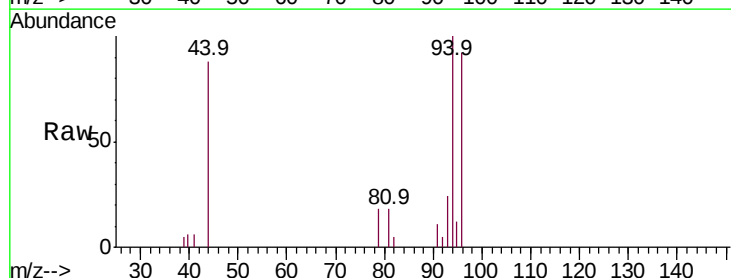
Acq: 06 Aug 2019 09:57

Tgt Ion: 94 Resp: 2927

Ion Ratio Lower Upper

94 100

96 91.9 66.8 124.0



Abundance Ion 94.00 (93.70 to 94.70): VV012108.D (-123) (-)

Ion 96.00 (95.70 to 96.70): VV012106.D (-39) (-)

1.54

3000

2500

2000

1500

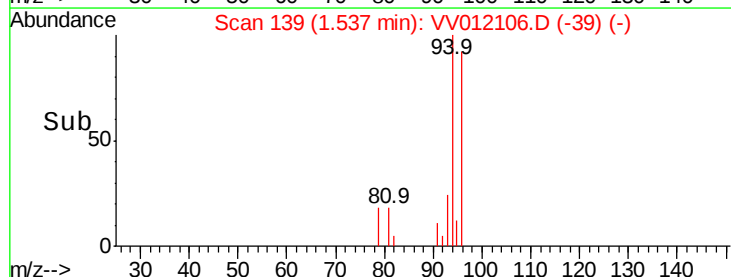
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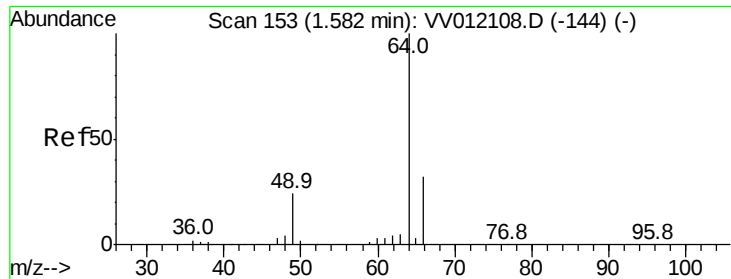
500

0

1.50 1.52 1.54 1.56 1.58

Time-->





#8

Chloroethane

Concen: 4.969 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.02 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

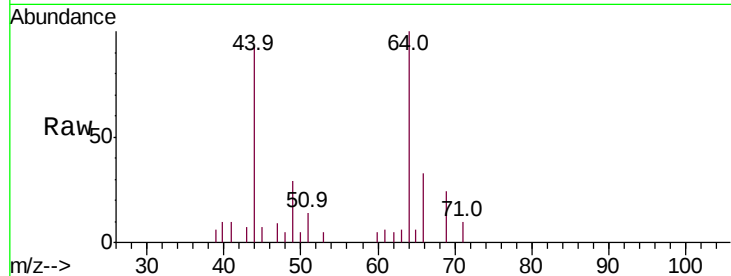
VSTD005631

Tot Ion: 64 Resp: 2679

Ion Ratio Lower Upper

64 100

66 32.9 22.6 42.0



Abundance Ion 64.00 (63.70 to 64.70): VV012108.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV012108.D (-144) (-)

1.60

2000

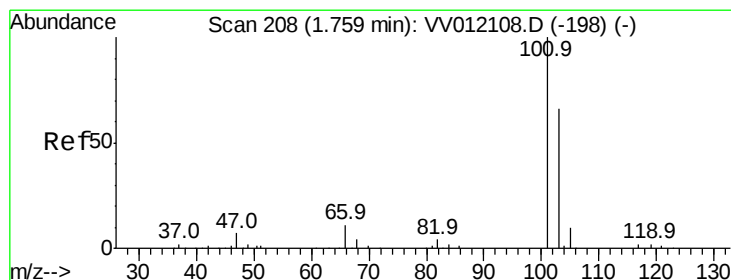
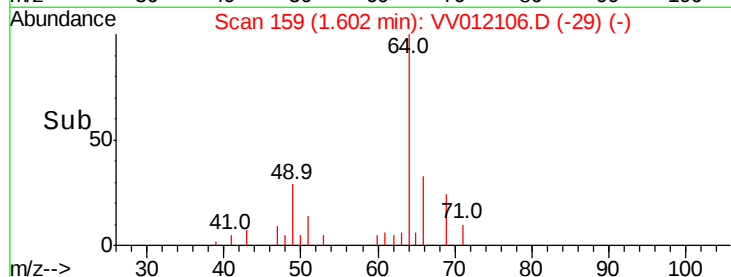
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 4.390 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.01 min

Lab File: VV012106.D

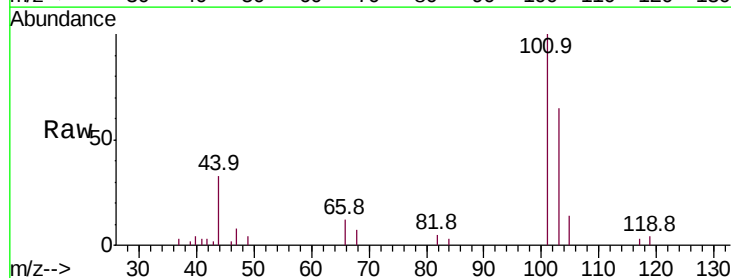
Acq: 06 Aug 2019 09:57

Tgt Ion: 101 Resp: 7348

Ion Ratio Lower Upper

101 100

103 65.9 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV012108.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV012108.D (-198) (-)

1.77

6000

5000

4000

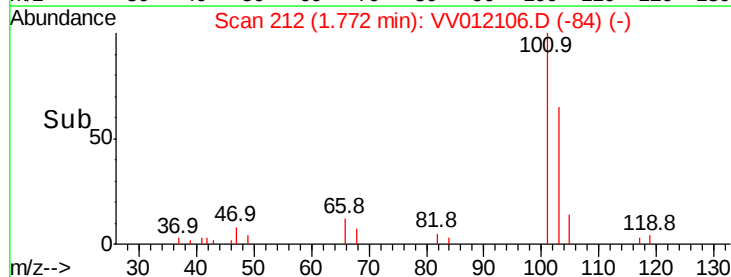
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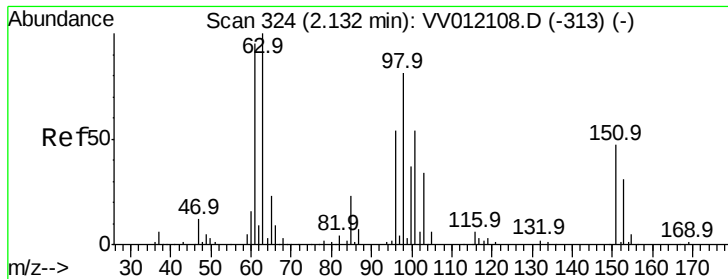
2000

1000

0

Time-->





#10

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

Concen: 4.544 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

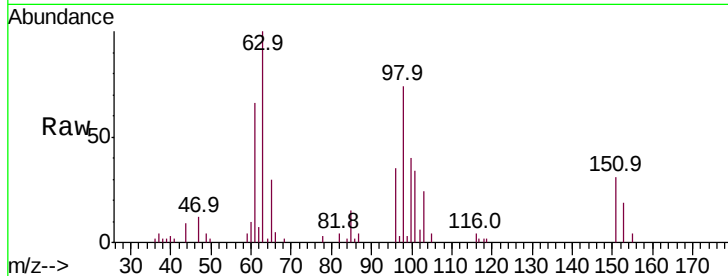
Tot Ion:101 Resp: 3728

Ion Ratio Lower Upper

101 100

85 44.7 34.4 51.6

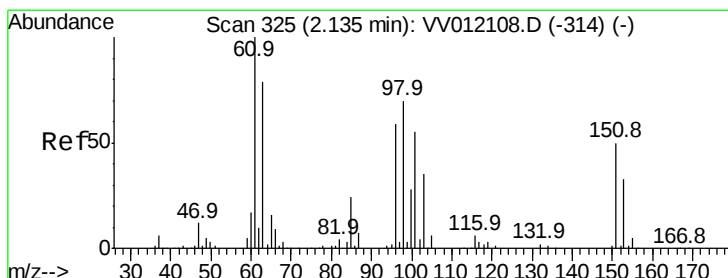
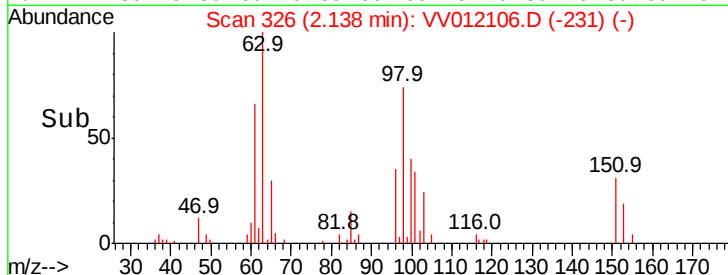
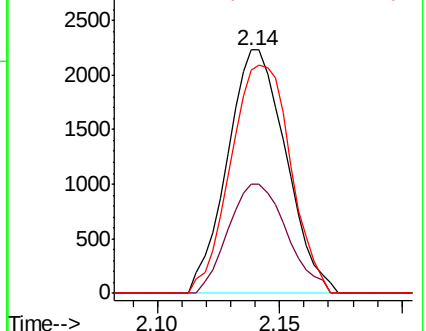
151 95.6 72.2 108.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.782 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

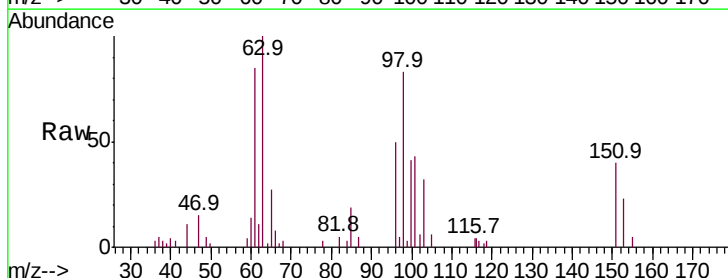
Tgt Ion: 96 Resp: 3694

Ion Ratio Lower Upper

96 100

61 168.4 120.0 223.0

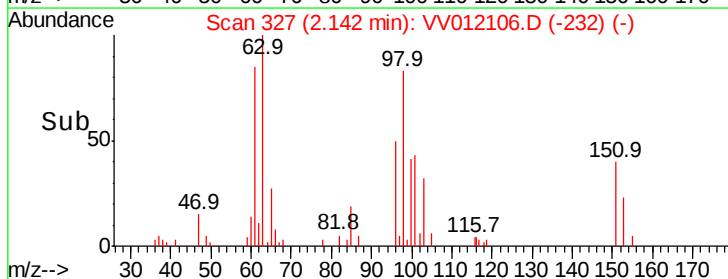
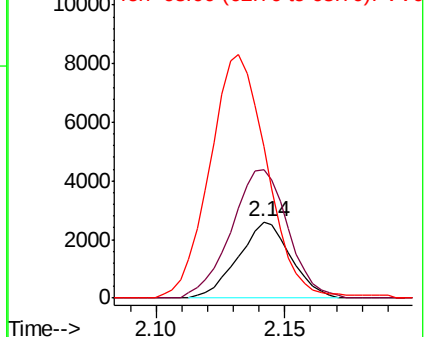
63 199.2 98.3 182.7#

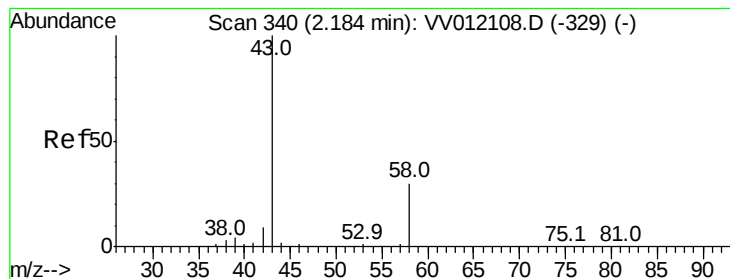


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 12.441 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.01 min

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ClientSampleId :

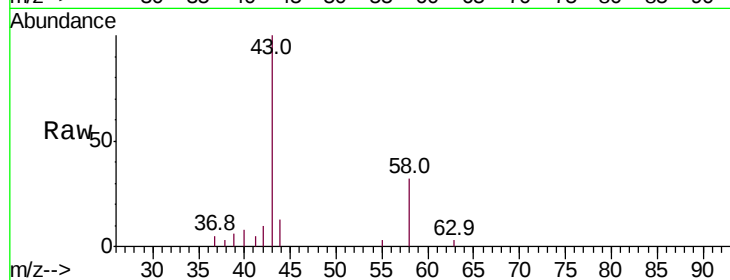
VSTD005631

Tot Ion: 43 Resp: 7184

Ion Ratio Lower Upper

43 100

58 29.7 0.0 59.2



Abundance Ion 43.00 (42.70 to 43.70): VV012108.D (-329) (-)

Ion 58.00 (57.70 to 58.70): VV012108.D (-329) (-)

2.19

4000

3000

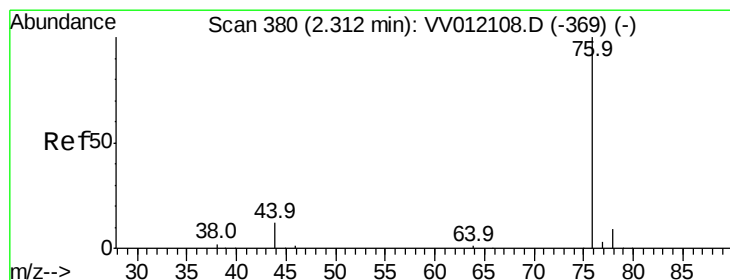
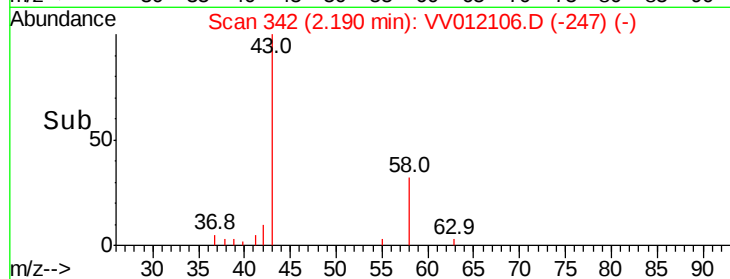
2000

1000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 4.571 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV012106.D

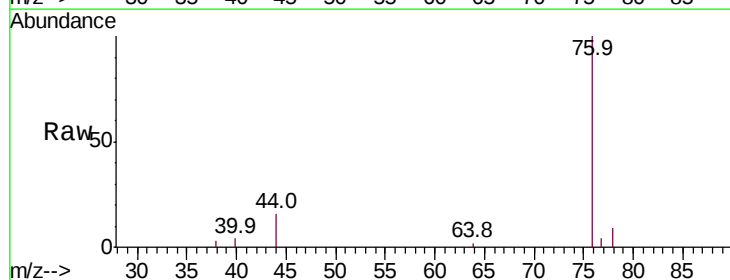
Acq: 06 Aug 2019 09:57

Tgt Ion: 76 Resp: 11934

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012108.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV012108.D (-369) (-)

2.32

8000

6000

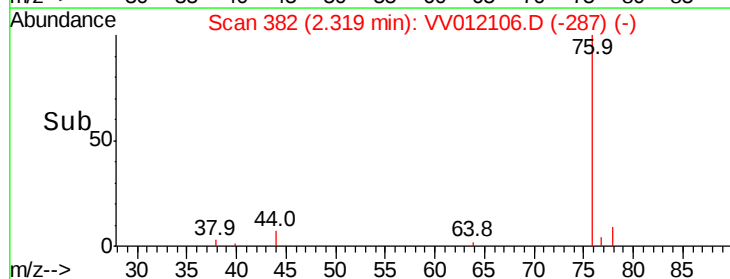
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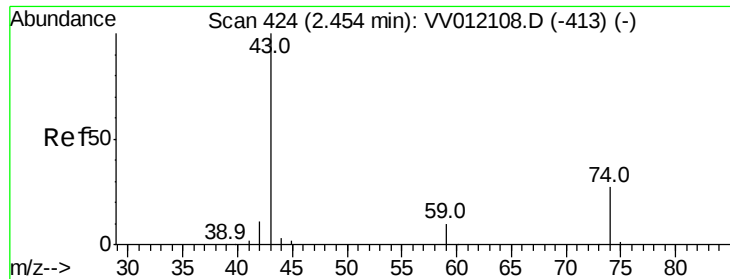
2000

0

2.30 2.35

Time-->

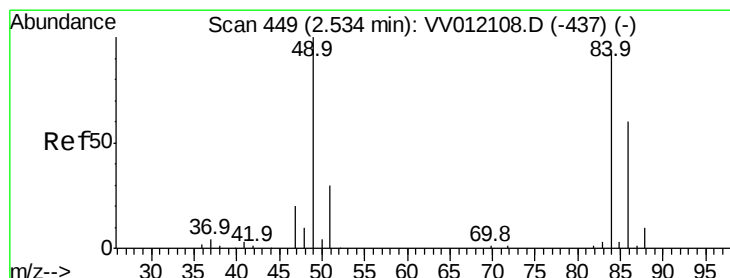
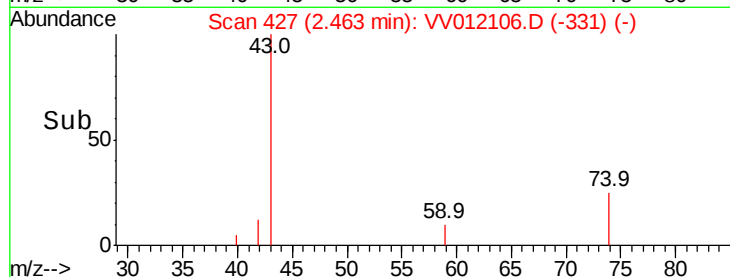
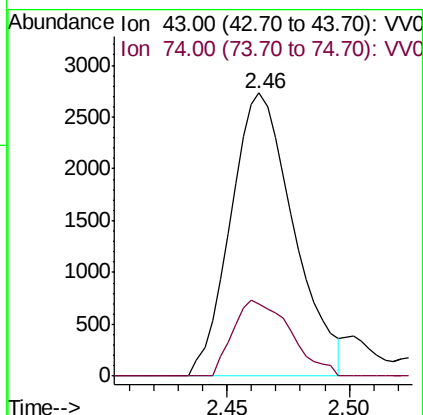
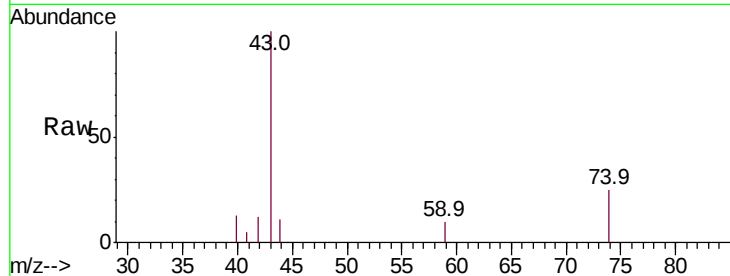




#15
Methyl Acetate
Concen: 4.845 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.01 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

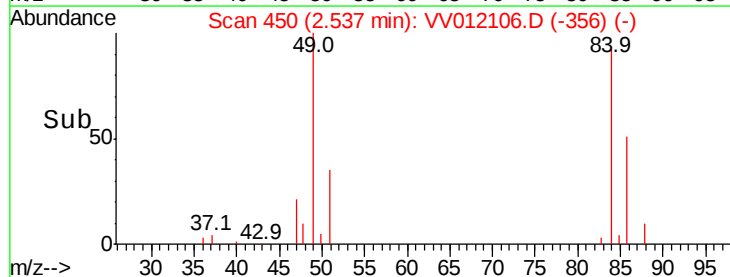
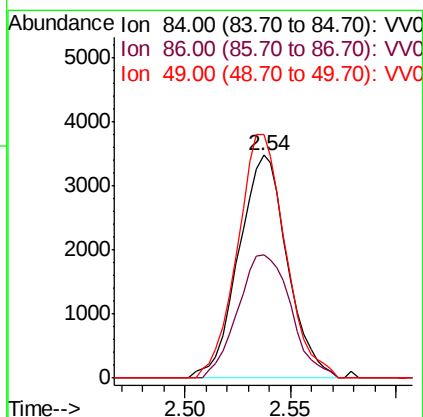
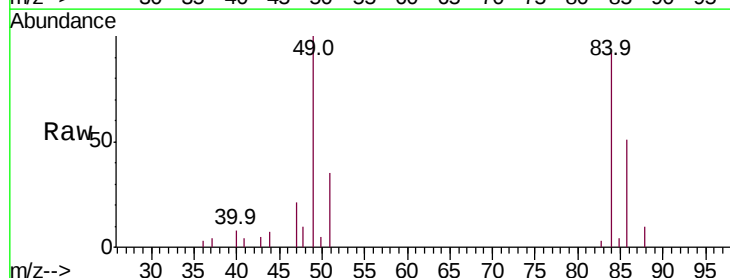
Instrument :
MSVOA_V
ClientSampled :
VSTD005631

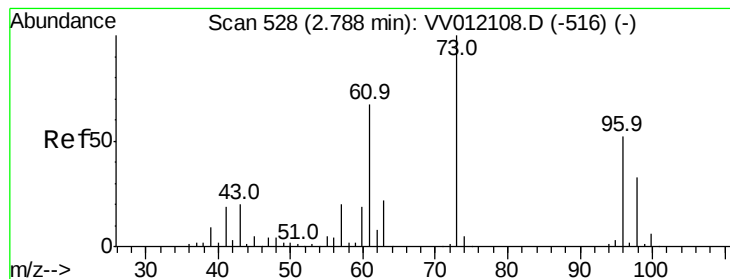
Tot Ion: 43 Resp: 4895
Ion Ratio Lower Upper
43 100
74 24.5 21.8 32.6



#16
Methylene chloride
Concen: 4.761 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

Tgt Ion: 84 Resp: 5581
Ion Ratio Lower Upper
84 100
86 55.2 45.7 84.9
49 109.0 76.6 142.2





#17

trans-1,2-Dichloroethene

Concen: 4.528 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

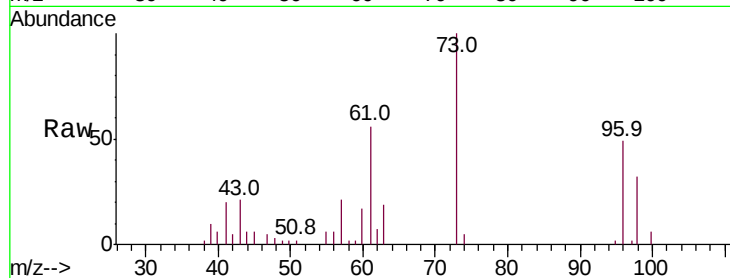
Tot Ion: 96 Resp: 4939

Ion Ratio Lower Upper

96 100

61 115.7 90.6 168.3

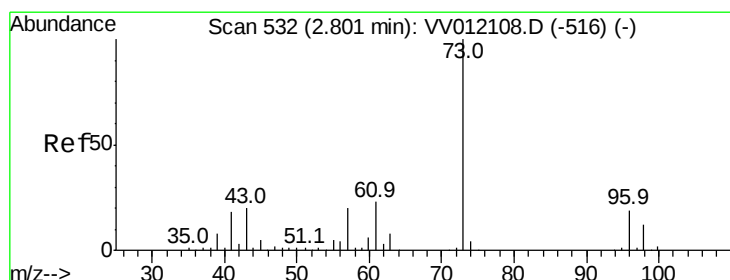
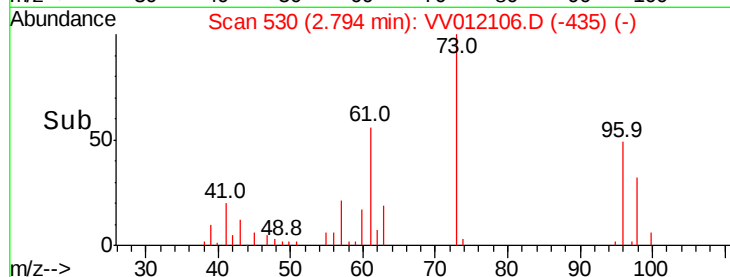
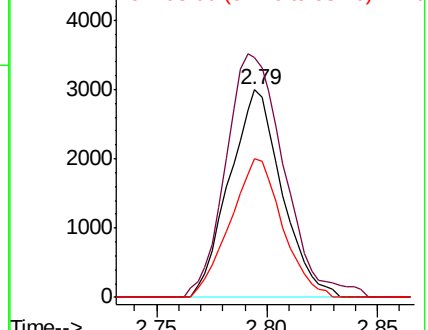
98 66.7 44.2 82.2



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



#18

Methyl tert-butyl Ether

Concen: 4.349 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

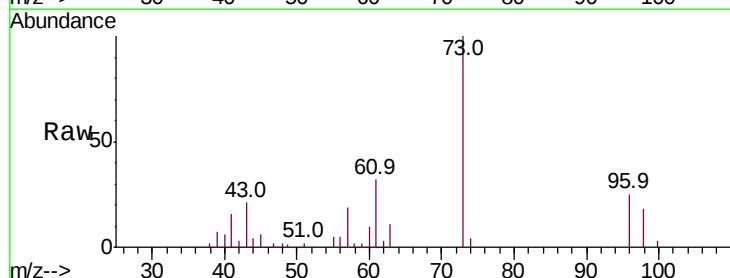
Tgt Ion: 73 Resp: 16303

Ion Ratio Lower Upper

73 100

43 20.7 15.6 23.4

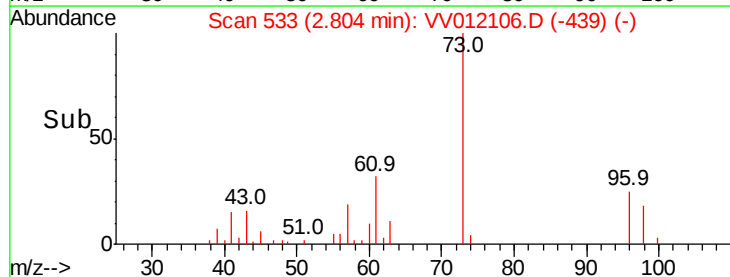
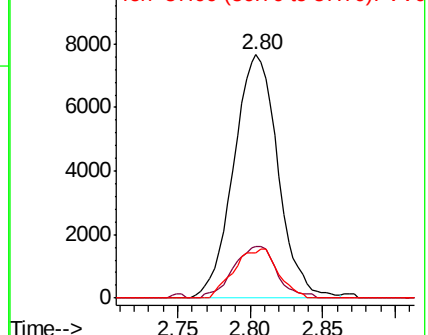
57 9.1 16.0 24.0#

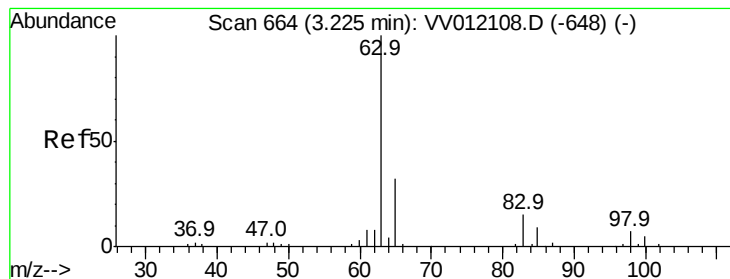


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 4.611 ug/L

RT: 3.23 min Scan# 667

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

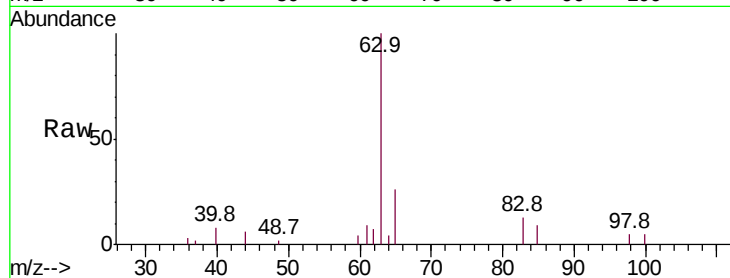
Tot Ion: 63 Resp: 9173

Ion Ratio Lower Upper

63 100

65 25.6 22.3 41.3

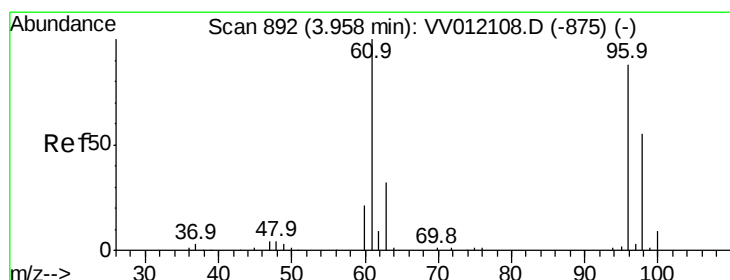
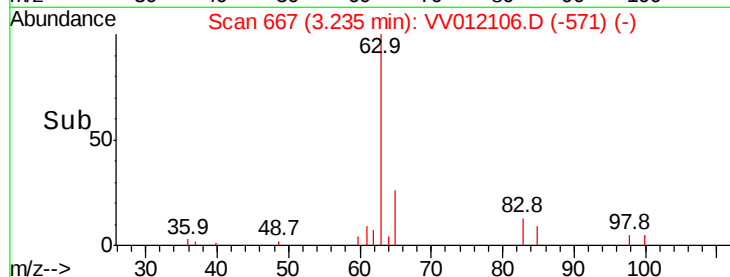
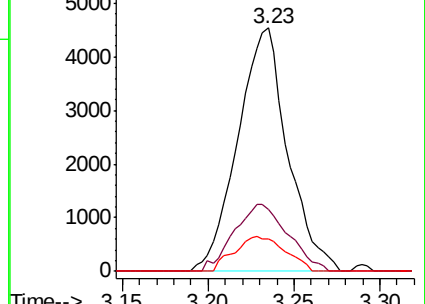
83 13.2 10.3 19.1



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 4.545 ug/L

RT: 3.96 min Scan# 894

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

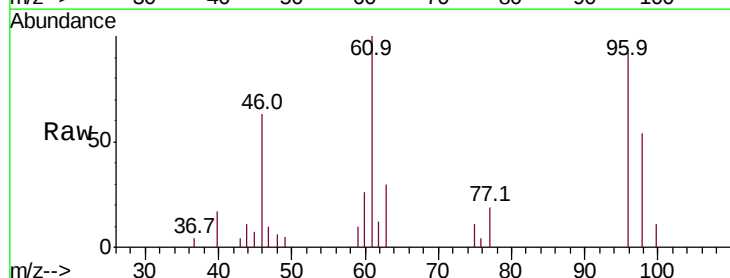
Tgt Ion: 96 Resp: 5840

Ion Ratio Lower Upper

96 100

61 108.9 80.0 148.6

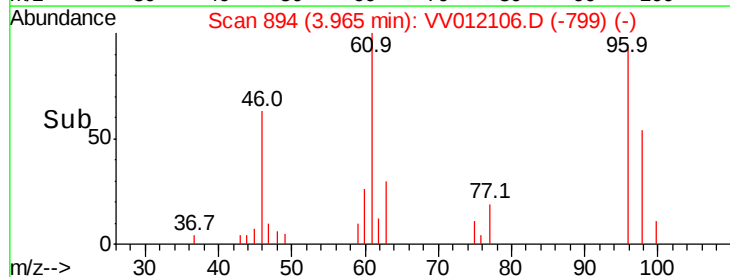
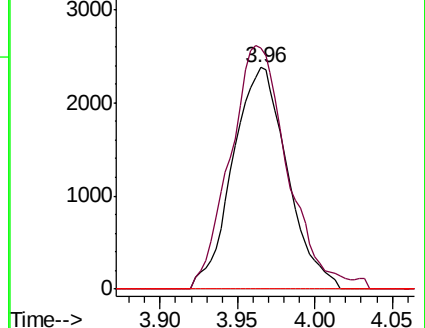
68 0.0 0.0 0.0

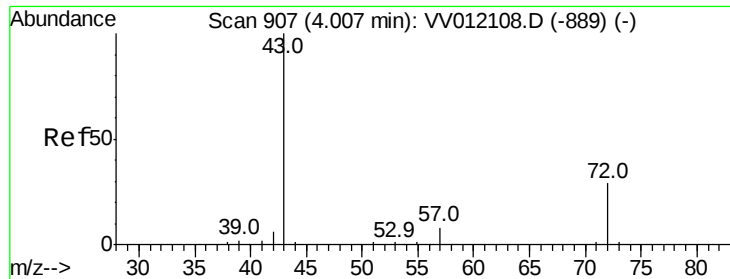


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 8.606 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.02 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

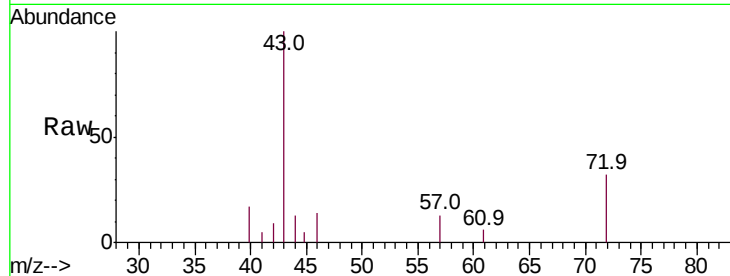
VSTD005631

Tot Ion: 43 Resp: 6404

Ion Ratio Lower Upper

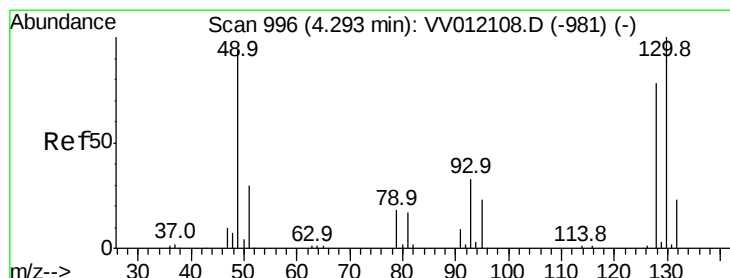
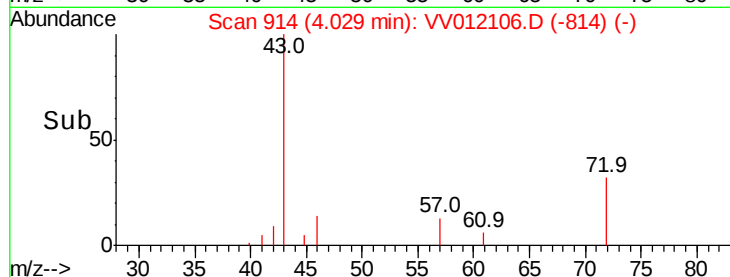
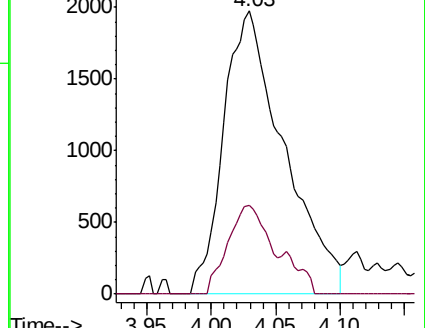
43 100

72 20.5 15.0 45.0



Abundance Ion 43.00 (42.70 to 43.70): VV012108.D (-889) (-)

Ion 72.00 (71.70 to 72.70): VV012108.D (-889) (-)



#23

Bromochloromethane

Concen: 4.475 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Tgt Ion: 128 Resp: 3162

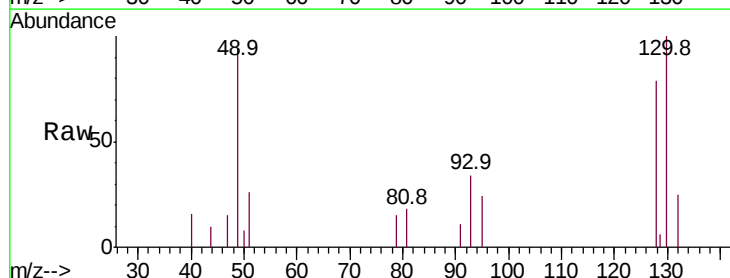
Ion Ratio Lower Upper

128 100

49 110.2 84.6 157.2

130 117.1 89.9 167.0

51 30.7 30.5 45.7

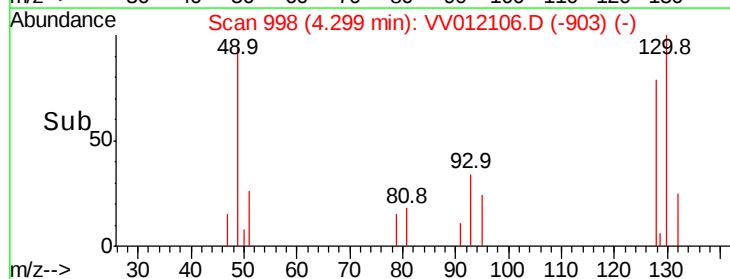
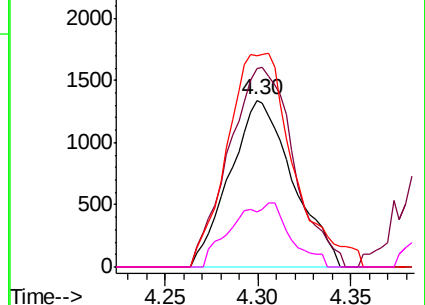


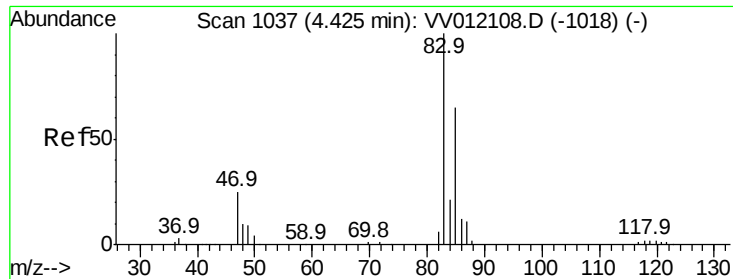
Abundance Ion 128.00 (127.70 to 128.70): VV012108.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VV012108.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VV012108.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VV012108.D (-981) (-)

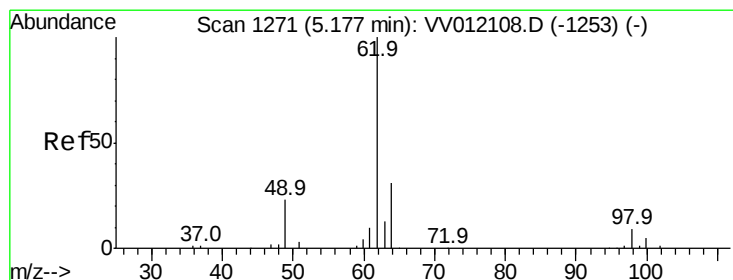
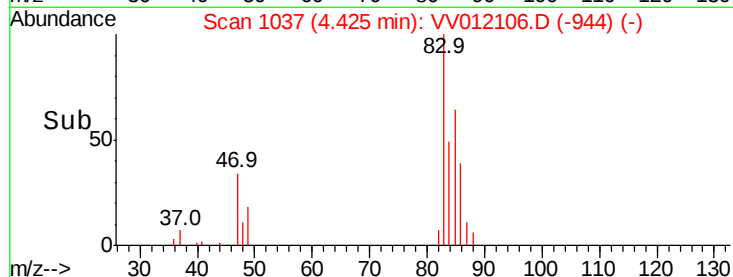
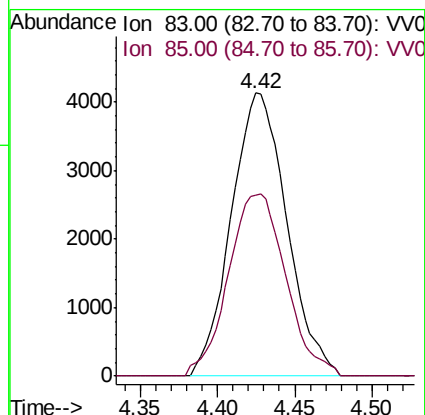
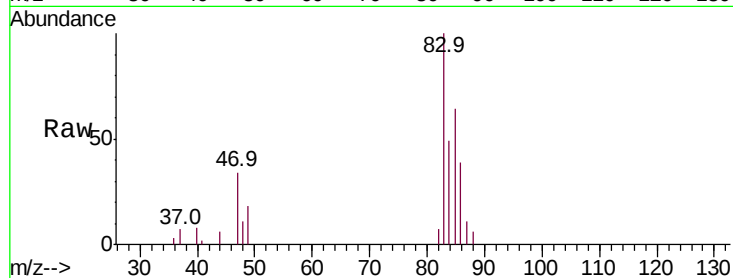




#25
Chloroform
Concen: 4.573 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

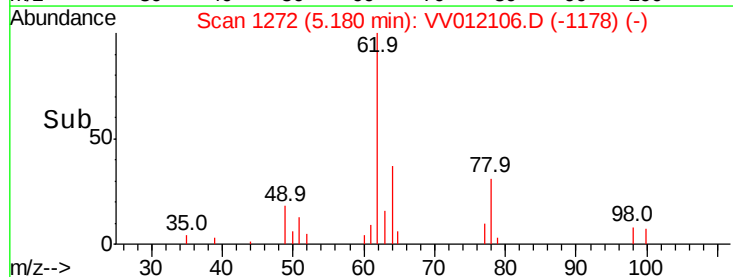
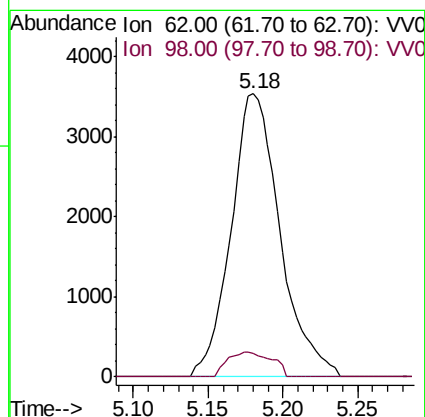
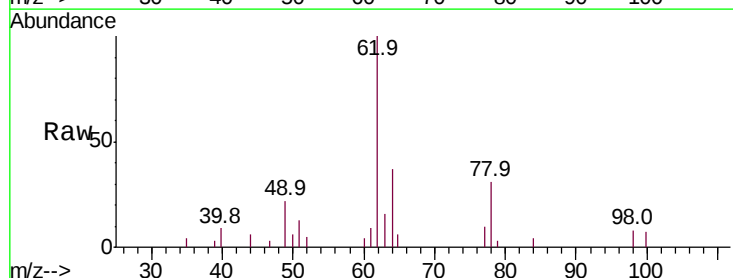
Instrument :
MSVOA_V
ClientSampleId :
VSTD005631

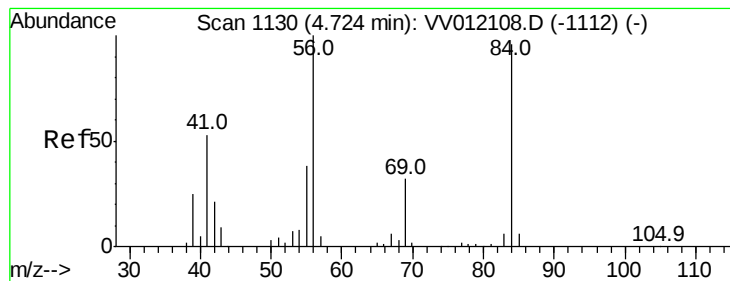
Tot Ion: 83 Resp: 10311
Ion Ratio Lower Upper
83 100
85 63.9 45.8 85.2



#27
1,2-Dichloroethane
Concen: 4.605 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

Tgt Ion: 62 Resp: 8070
Ion Ratio Lower Upper
62 100
98 8.4 7.5 11.3





#29

Cvclohexane

Concen: 4.306 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

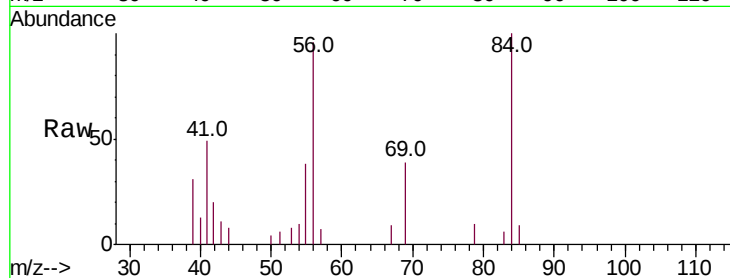
Tot Ion: 56 Resp: 7004

Ion Ratio Lower Upper

56 100

69 37.9 25.8 38.8

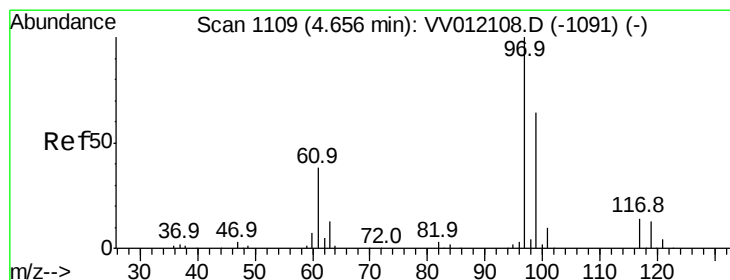
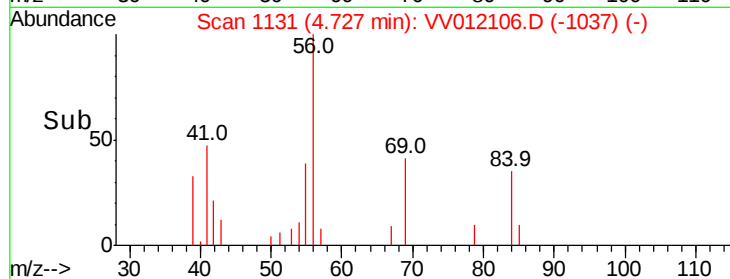
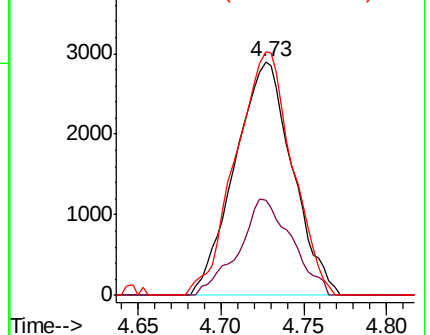
84 102.1 76.0 114.0



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



#30

1,1,1-Trichloroethane

Concen: 4.256 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

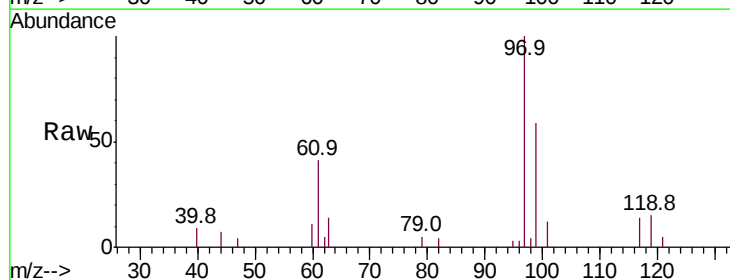
Tgt Ion: 97 Resp: 8793

Ion Ratio Lower Upper

97 100

99 63.9 51.1 76.7

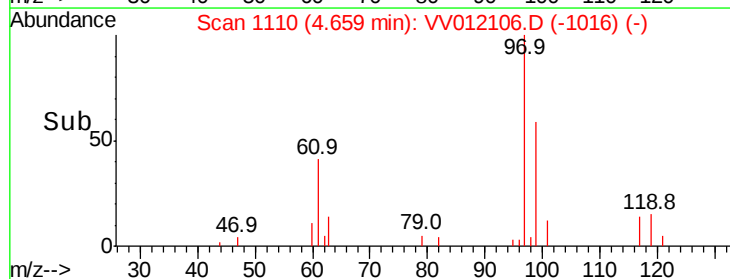
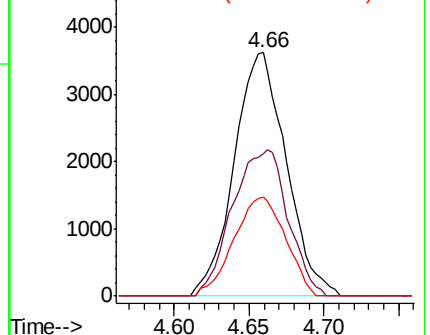
61 40.3 31.3 46.9

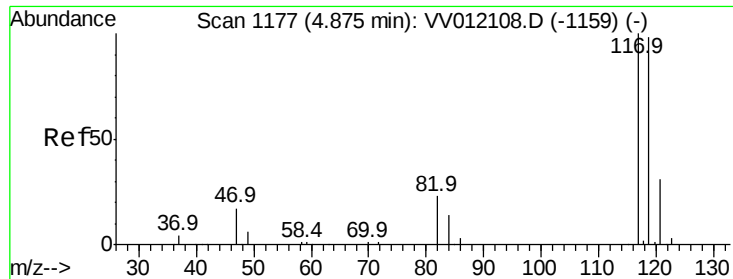


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

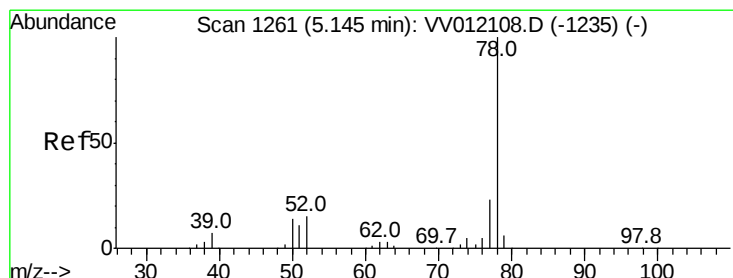
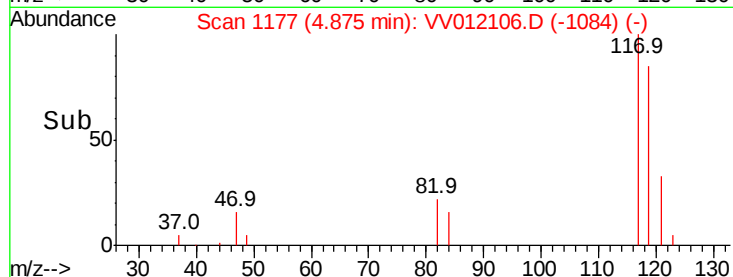
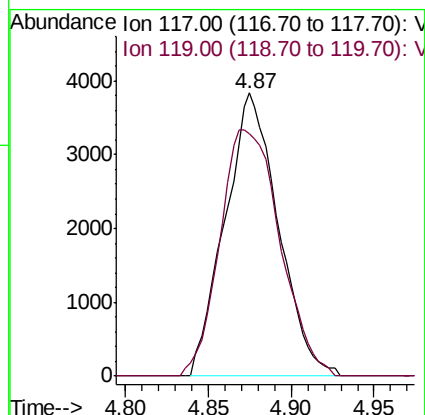
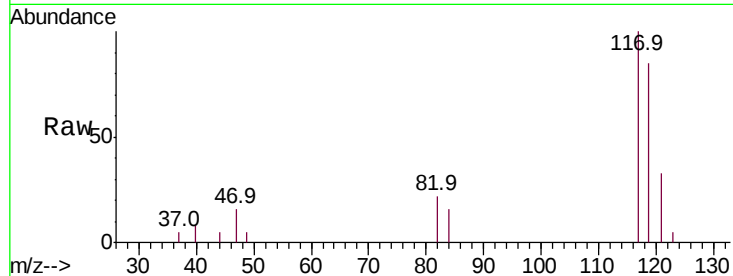




#31
Carbon tetrachloride
Concen: 4.470 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

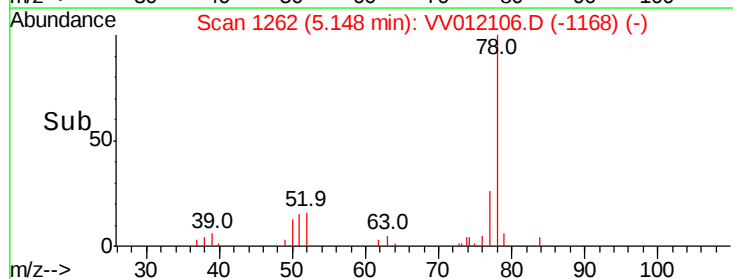
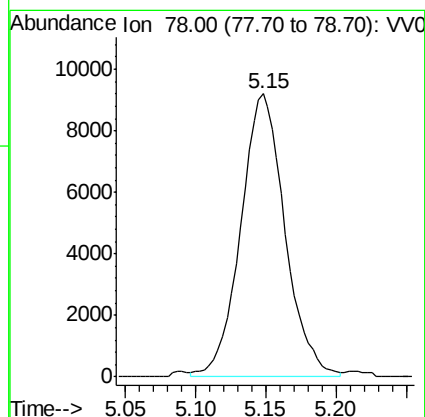
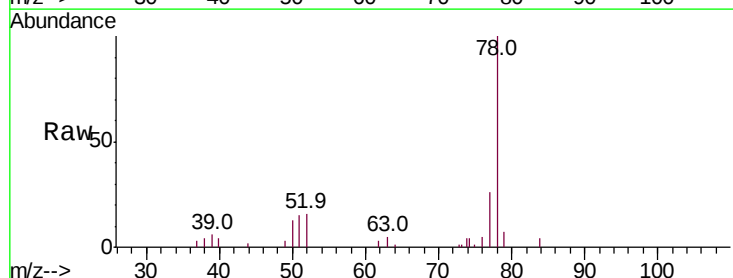
Instrument :
MSVOA_V
ClientSampleId :
VSTD005631

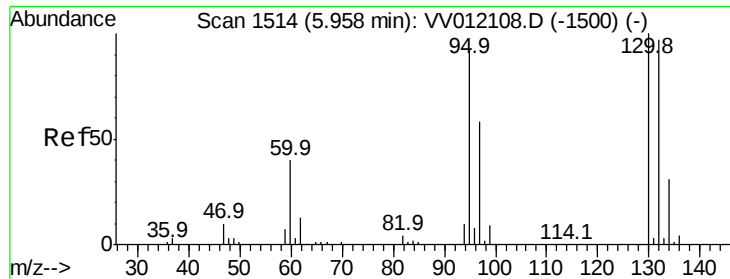
Tot Ion:117 Resp: 8567
Ion Ratio Lower Upper
117 100
119 97.9 78.2 117.4



#33
Benzene
Concen: 4.511 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

Tgt Ion: 78 Resp: 20197





#34

Trichloroethene

Concen: 4.510 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

Tot Ion: 95 Resp: 5613

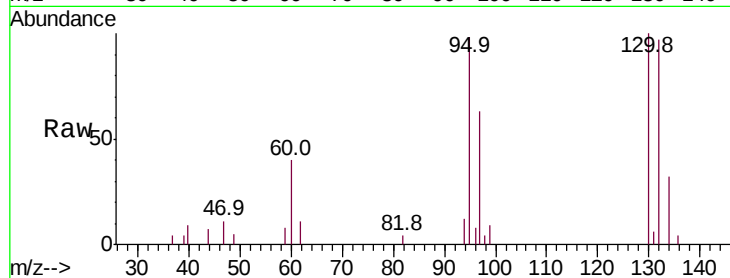
Ion Ratio Lower Upper

95 100

97 63.7 43.4 80.6

132 98.8 73.1 135.8

130 101.8 75.3 139.8

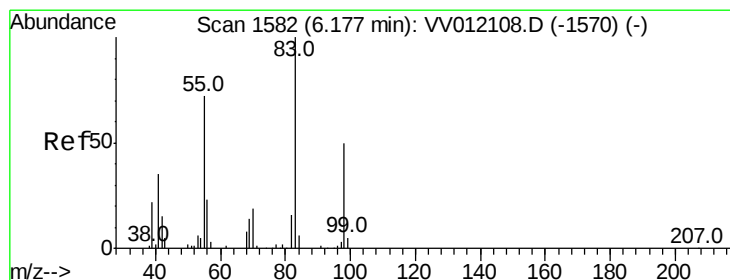
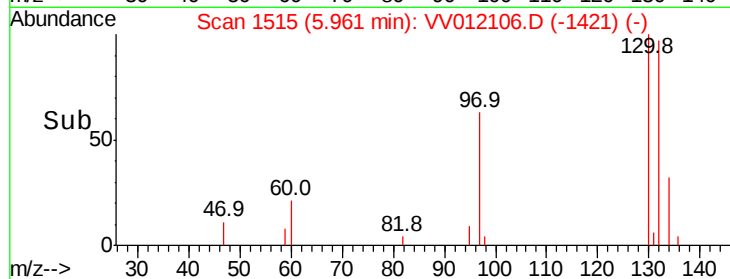
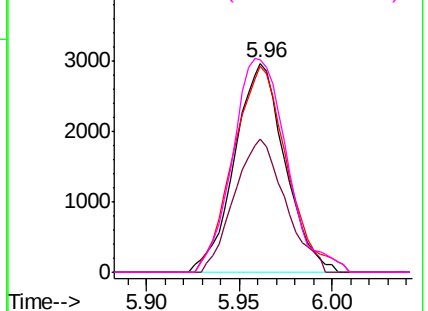


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 4.390 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

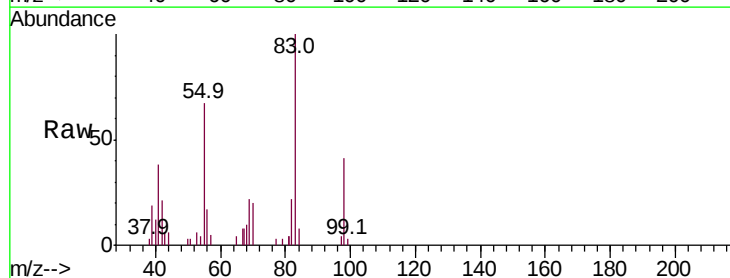
Tgt Ion: 83 Resp: 8131

Ion Ratio Lower Upper

83 100

55 71.3 55.5 83.3

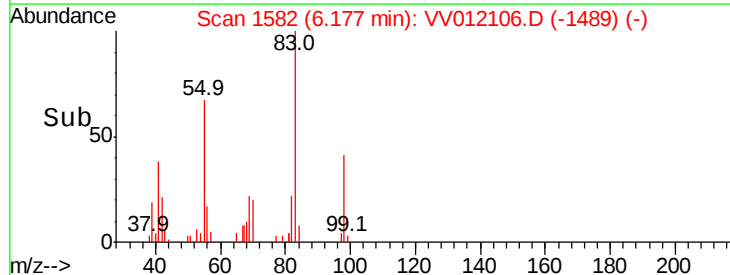
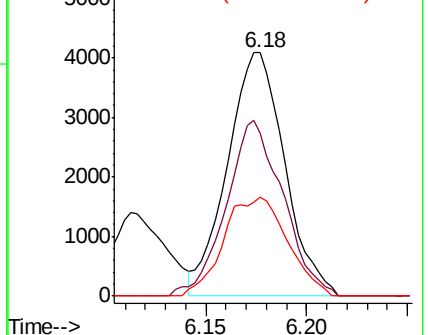
98 19.1 38.5 57.7#

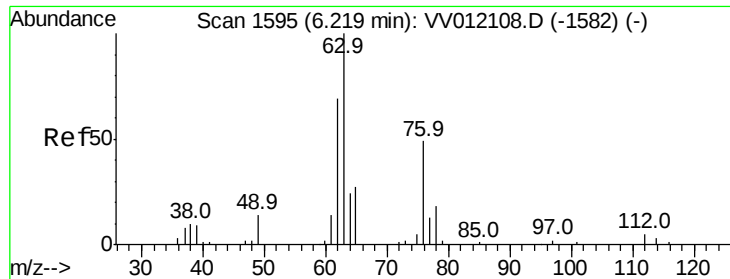


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 4.469 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

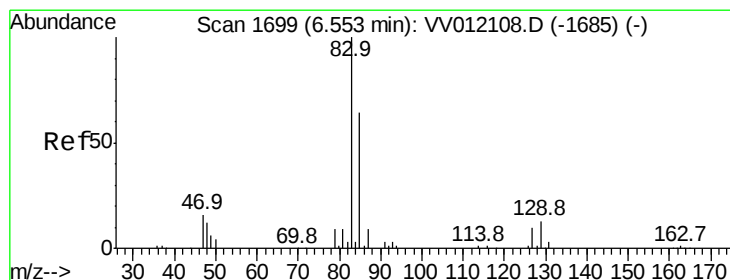
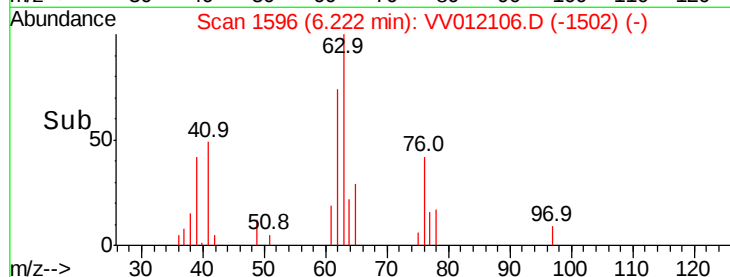
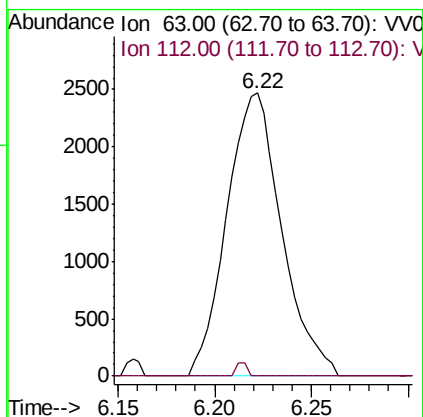
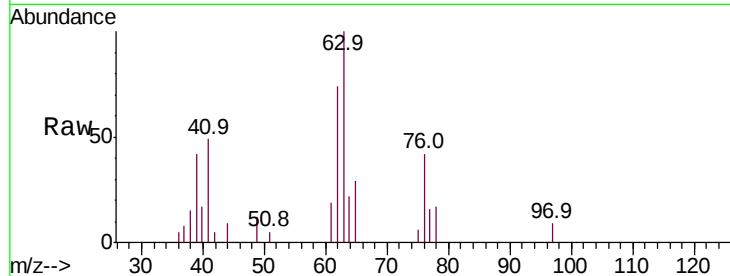
Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :
MSVOA_V
ClientSampled :
VSTD005631

Tot Ion: 63 Resp: 4880

Ion	Ratio	Lower	Upper
63	100		
112	0.9	4.2	6.2#



#38

Bromodichloromethane

Concen: 4.438 ug/L

RT: 6.55 min Scan# 1699

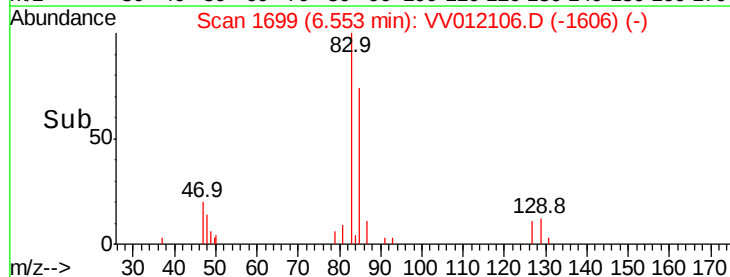
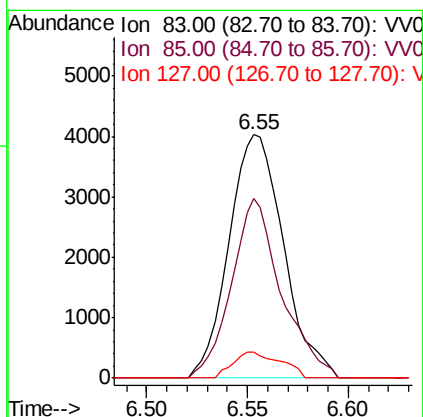
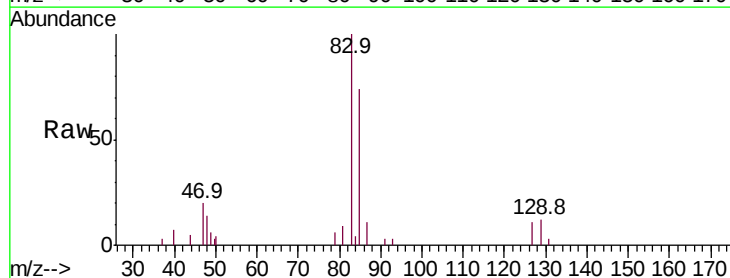
Delta R.T. -0.00 min

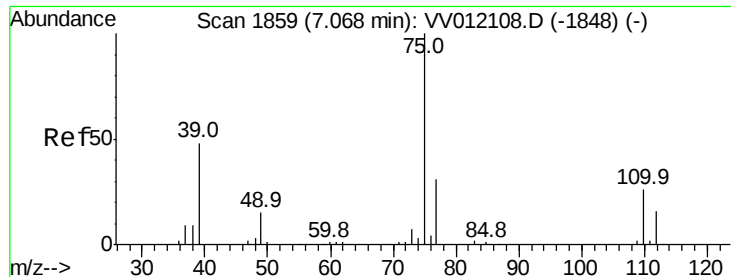
Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Tgt Ion: 83 Resp: 7624

Ion	Ratio	Lower	Upper
83	100		
85	73.7	45.0	83.6
127	10.6	7.9	11.9

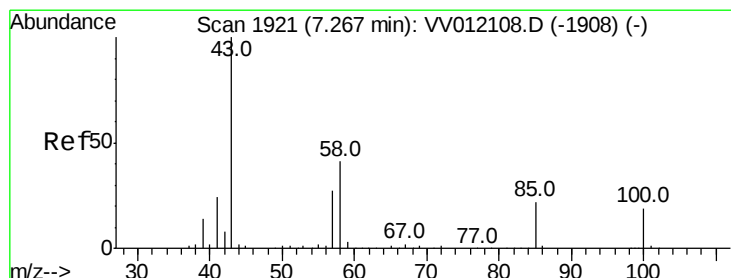
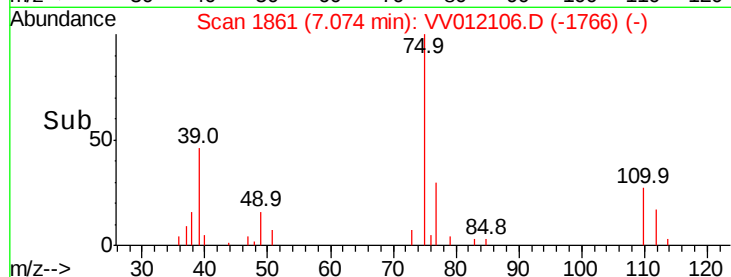
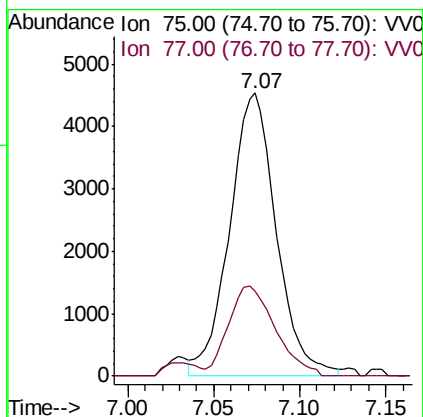
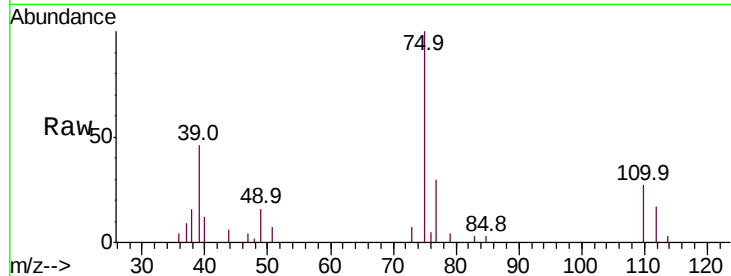




#39
 cis-1,3-Dichloropropene
 Concen: 4.459 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.01 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

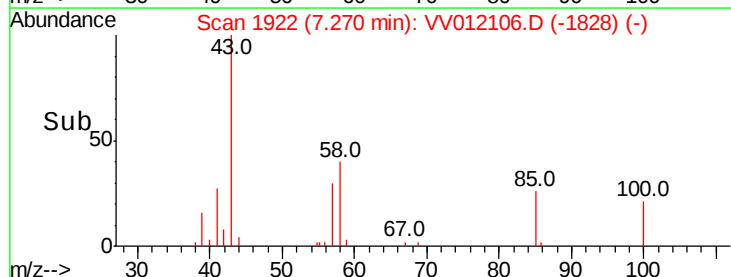
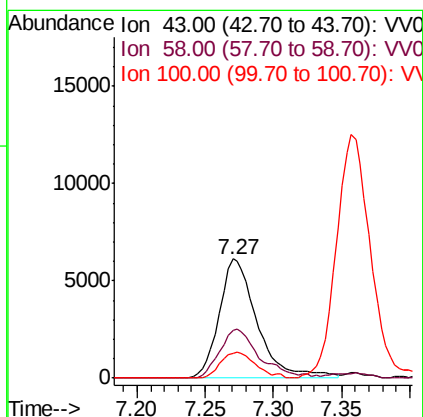
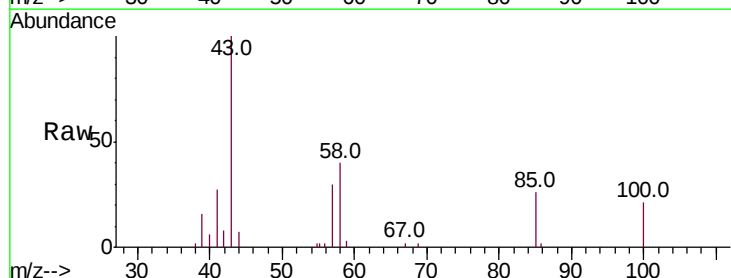
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

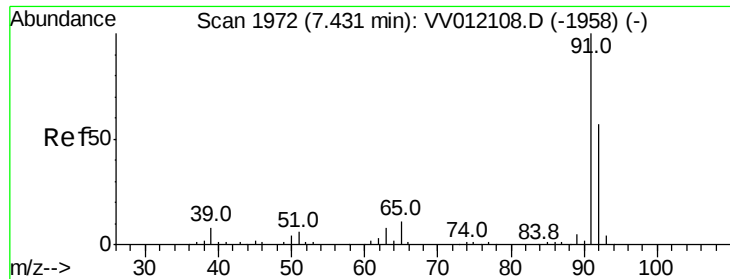
Tot Ion: 75 Resp: 8586
 Ion Ratio Lower Upper
 75 100
 77 30.1 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 8.435 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion: 43 Resp: 11856
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.4 50.2
 100 19.1 15.0 22.4





#42

Toluene

Concen: 4.351 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

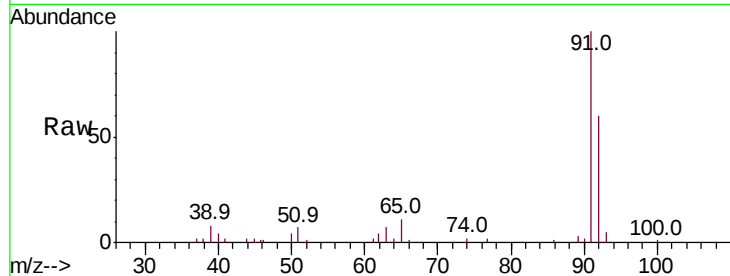
VSTD005631

Tot Ion: 91 Resp: 21645

Ion Ratio Lower Upper

91 100

92 59.7 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV012108.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012106.D (-1879) (-)

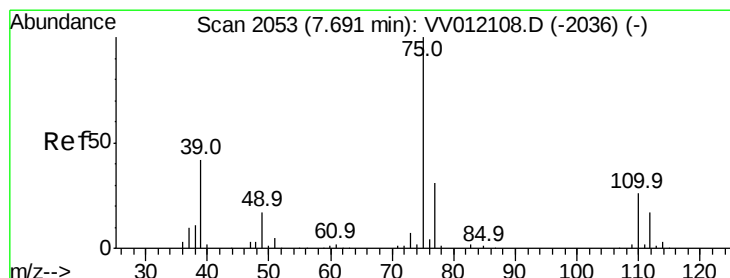
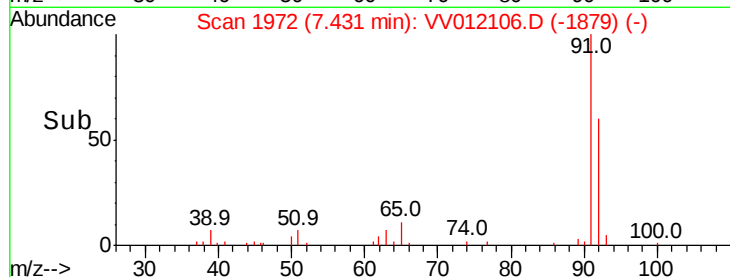
7.43

10000

5000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.212 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012106.D

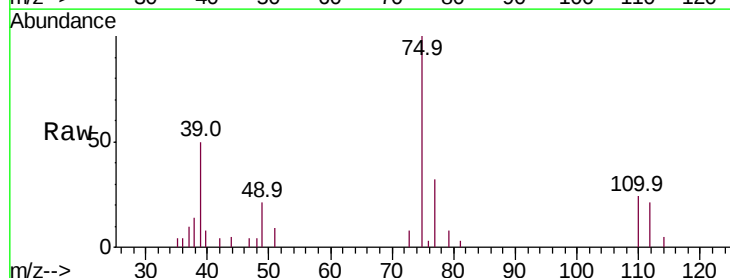
Acq: 06 Aug 2019 09:57

Tgt Ion: 75 Resp: 7655

Ion Ratio Lower Upper

75 100

77 31.6 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV012108.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV012106.D (-1960) (-)

7.69

4000

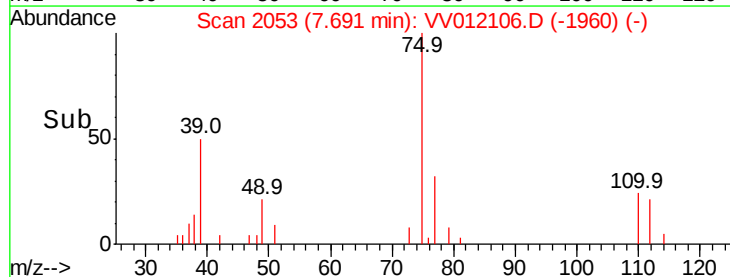
3000

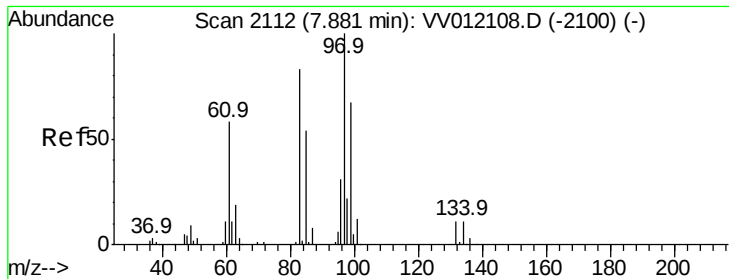
2000

1000

0

Time-->

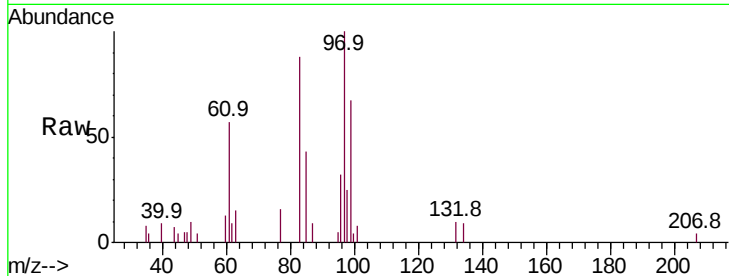




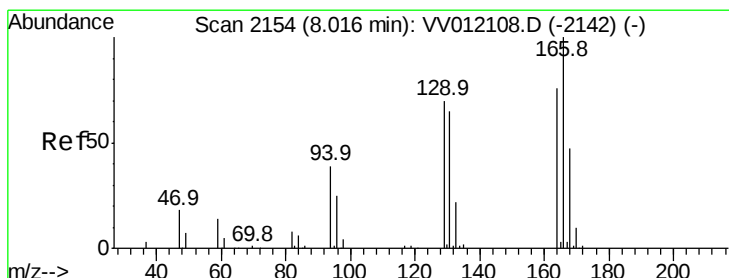
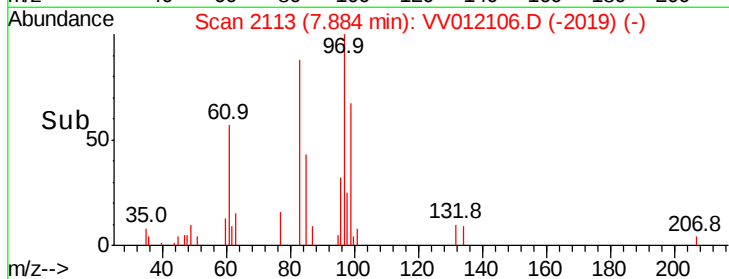
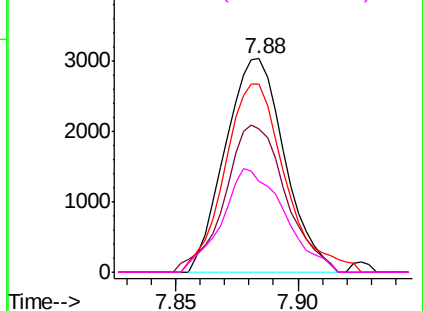
#45
 1,1,2-Trichloroethane
 Concen: 4.371 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

Tot Ion: 97 Resp: 5146
 Ion Ratio Lower Upper
 97 100
 99 67.3 47.2 87.6
 83 87.9 58.0 107.6
 85 42.9 38.0 70.6

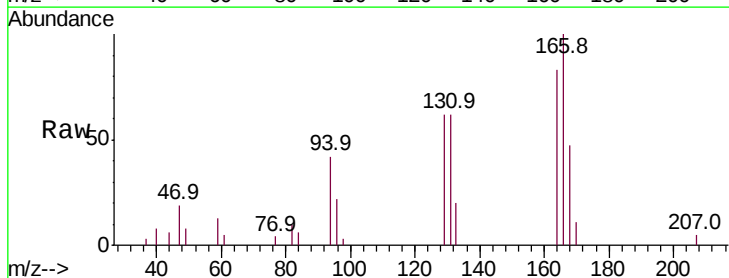


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

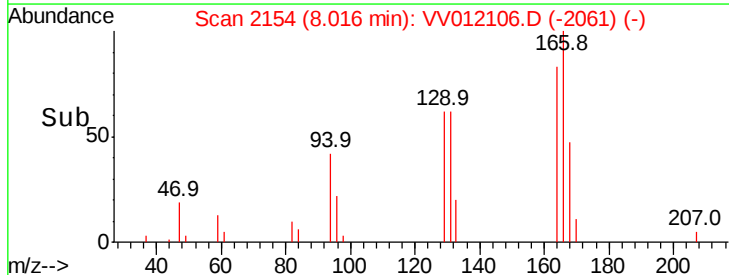
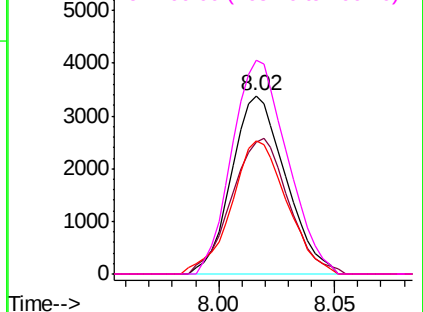


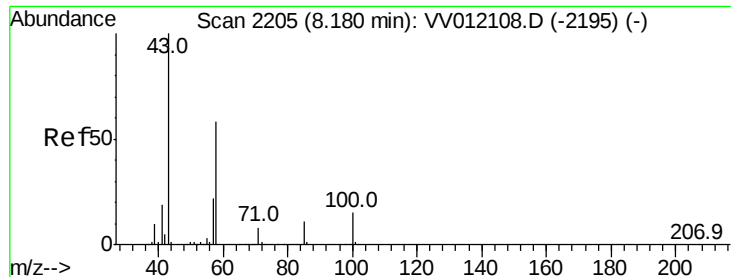
#46
 Tetrachloroethene
 Concen: 4.724 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion: 164 Resp: 5477
 Ion Ratio Lower Upper
 164 100
 129 74.2 64.3 119.5
 131 74.9 60.1 111.7
 166 120.0 91.8 170.6



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





#48

2-Hexanone

Concen: 7.940 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

Tot Ion: 43 Resp: 8414

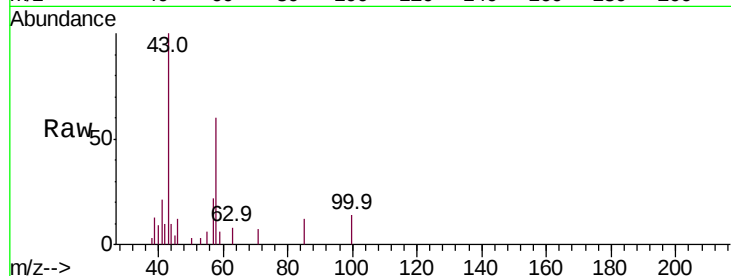
Ion Ratio Lower Upper

43 100

58 60.9 45.6 68.4

57 21.0 17.0 25.6

100 13.9 11.5 17.3

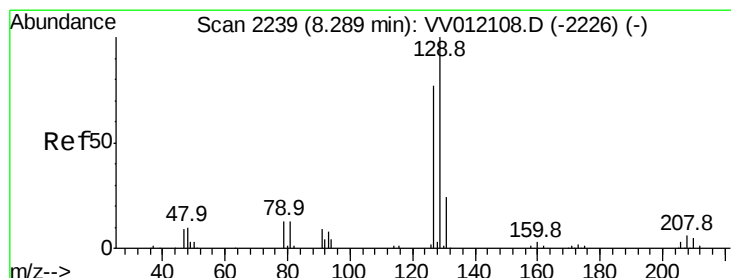
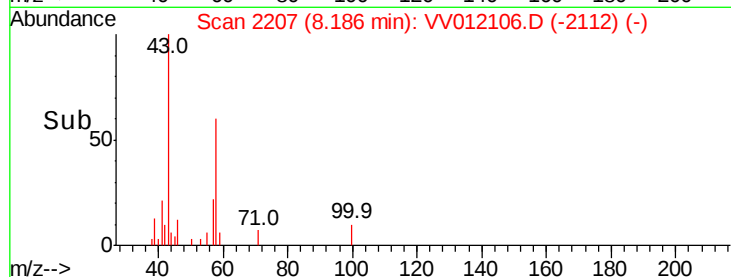
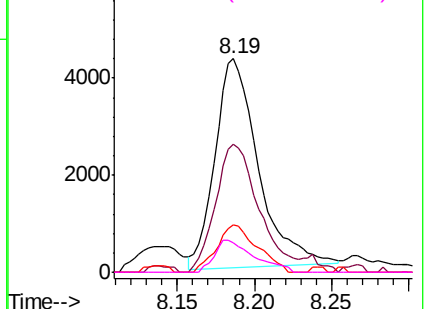


Abundance Ion 43.00 (42.70 to 43.70): VV0

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



#49

Dibromochloromethane

Concen: 4.361 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV012106.D

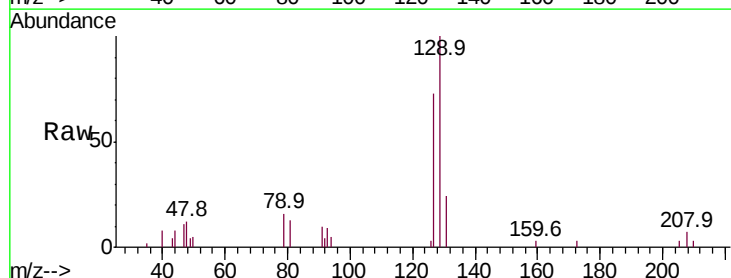
Acq: 06 Aug 2019 09:57

Tgt Ion: 129 Resp: 6662

Ion Ratio Lower Upper

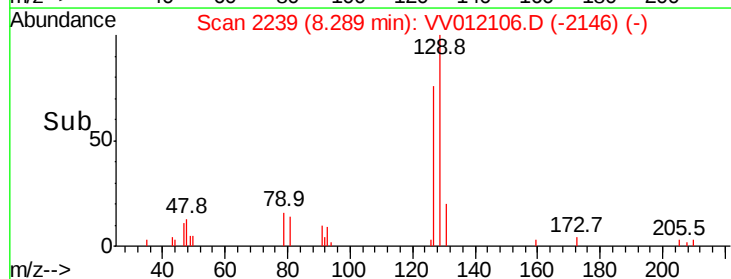
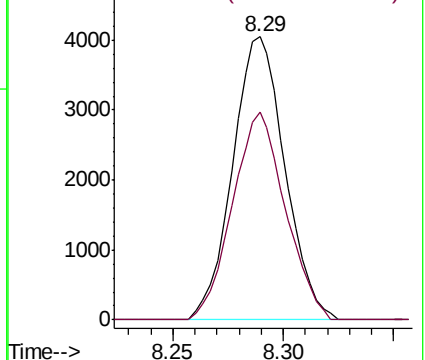
129 100

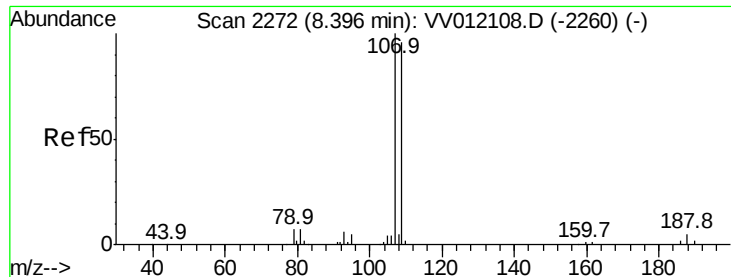
127 73.3 53.8 100.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

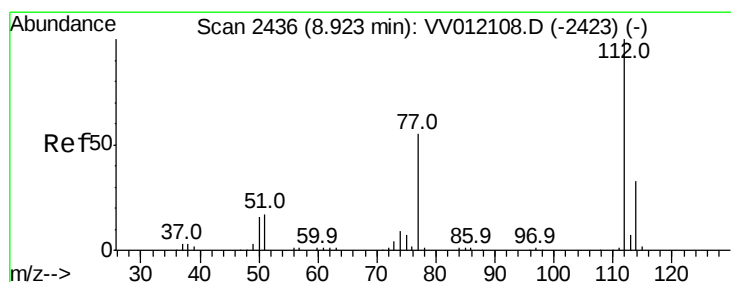
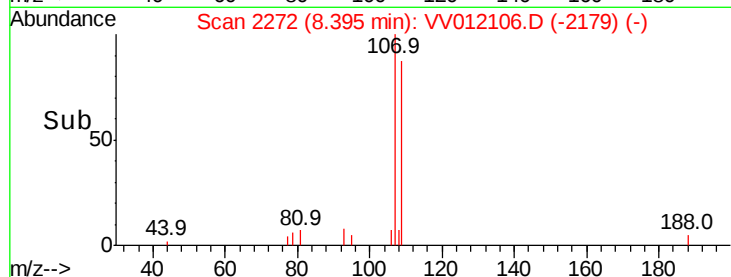
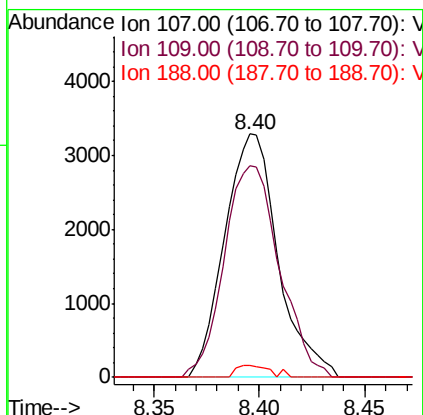
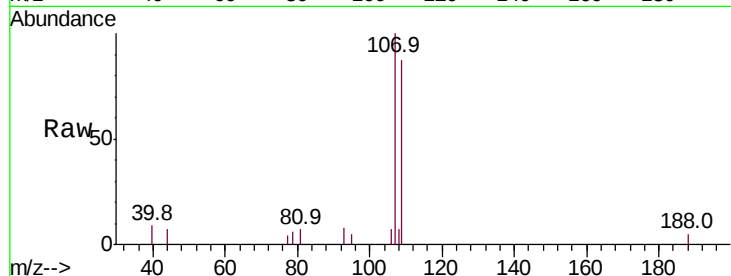




#50
1,2-Dibromoethane
Concen: 4.447 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

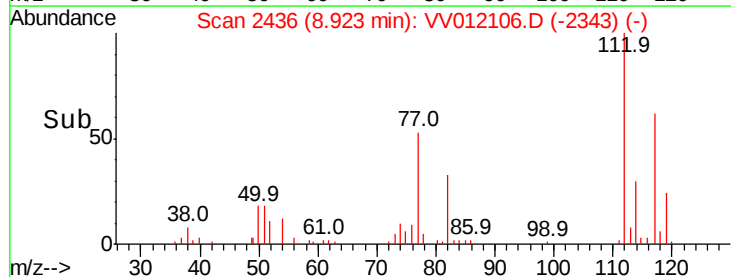
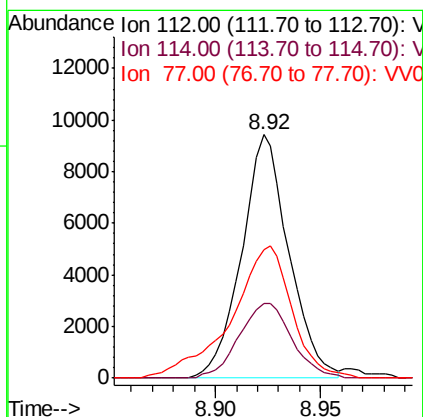
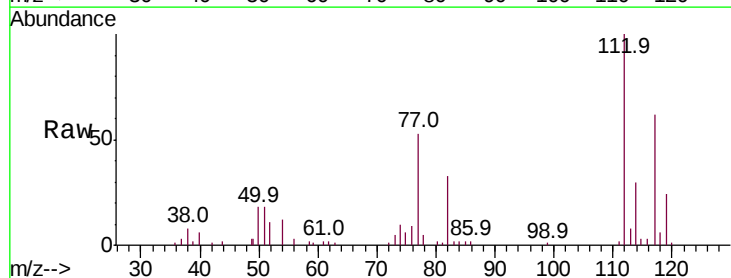
Instrument :
MSVOA_V
ClientSampleId :
VSTD005631

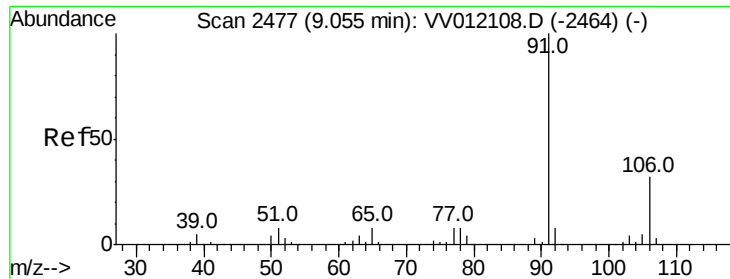
Tot Ion:107 Resp: 5789
Ion Ratio Lower Upper
107 100
109 87.1 67.0 124.4
188 4.9 3.9 5.9



#51
Chlorobenzene
Concen: 4.377 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

Tgt Ion:112 Resp: 14680
Ion Ratio Lower Upper
112 100
114 30.4 22.8 42.4
77 52.9 44.7 67.1





#52

Ethylbenzene

Concen: 4.329 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

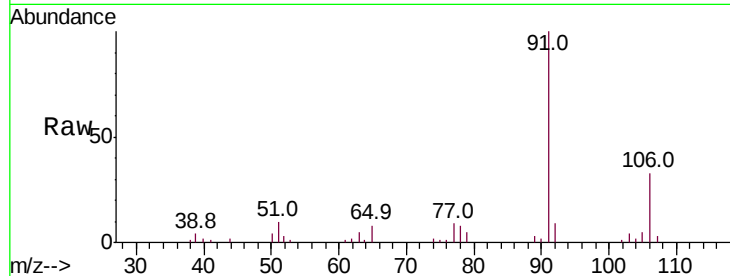
VSTD005631

Tot Ion: 91 Resp: 24162

Ion Ratio Lower Upper

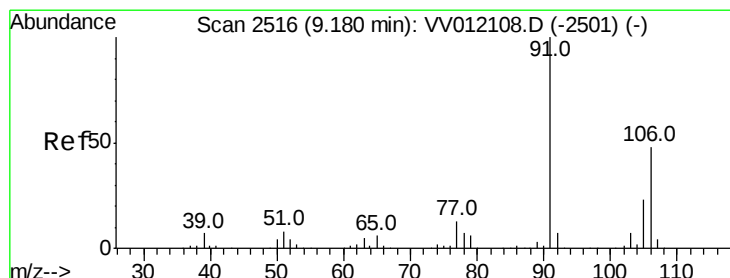
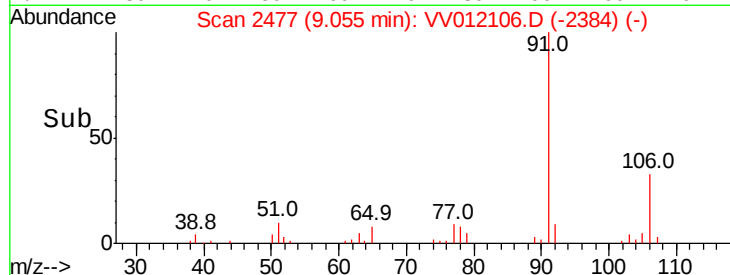
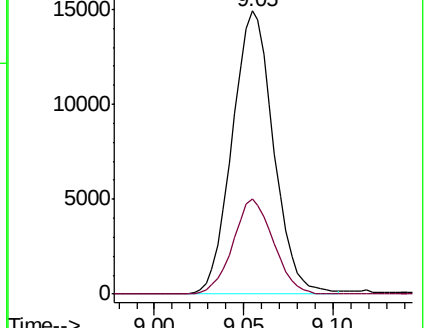
91 100

106 33.5 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV012106.D (-2384) (-)

Ion 106.00 (105.70 to 106.70): VV012106.D (-2384) (-)



#53

m,p-Xylene

Concen: 4.272 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012106.D

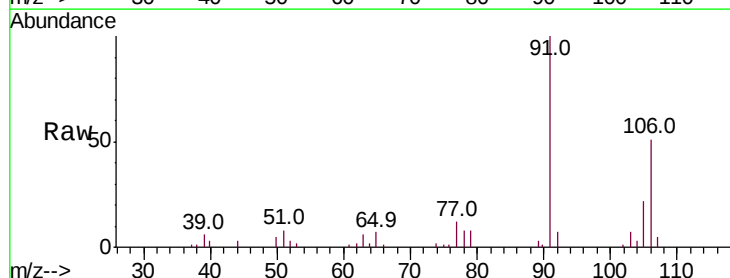
Acq: 06 Aug 2019 09:57

Tgt Ion: 106 Resp: 9200

Ion Ratio Lower Upper

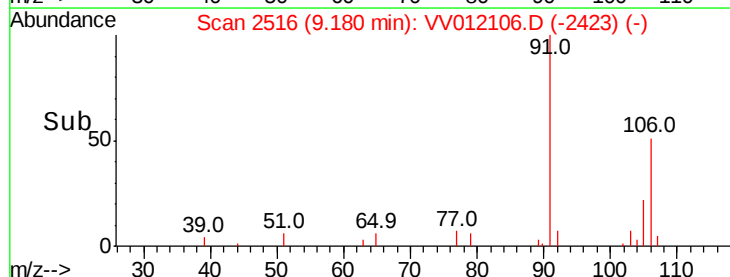
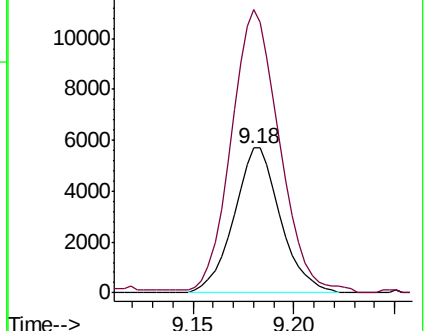
106 100

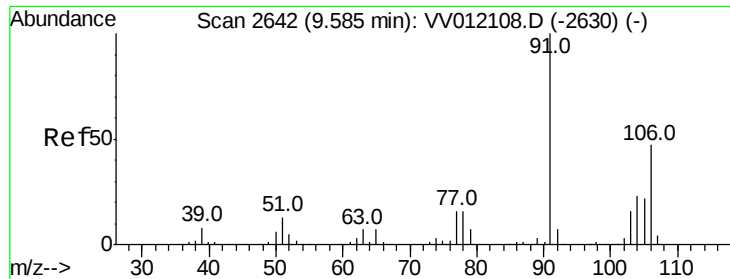
91 195.2 146.7 272.5



Abundance Ion 106.00 (105.70 to 106.70): VV012106.D (-2423) (-)

Ion 91.00 (90.70 to 91.70): VV012106.D (-2423) (-)

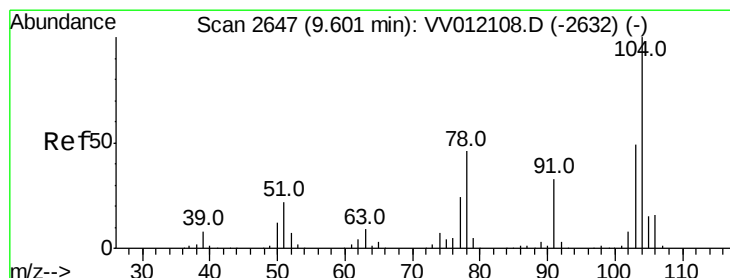
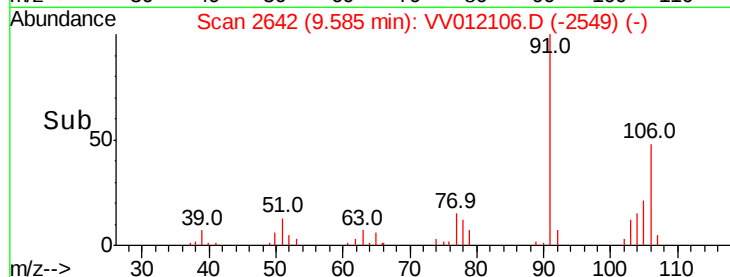
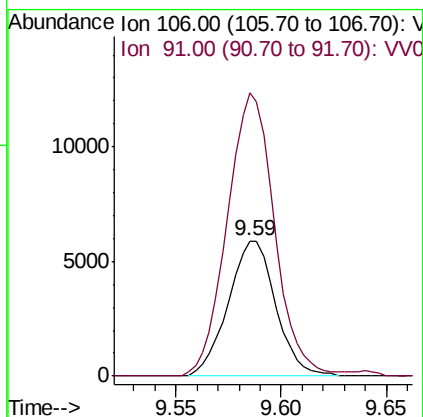
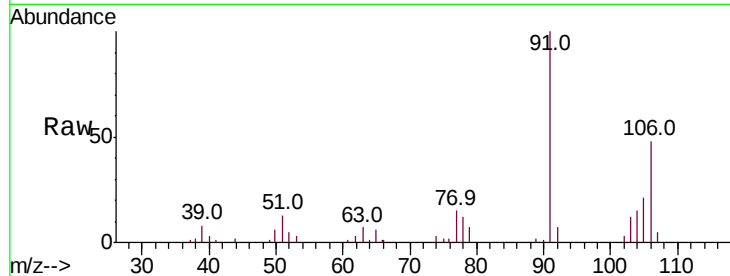




#54
o-Xylene
Concen: 4.315 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

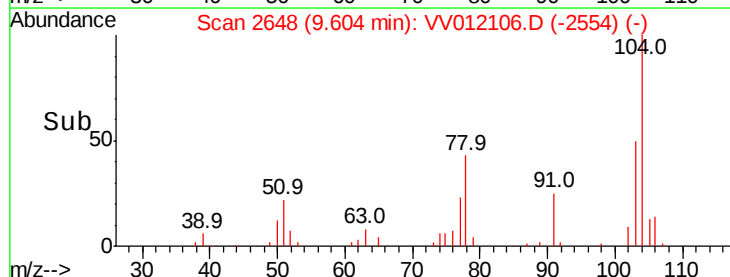
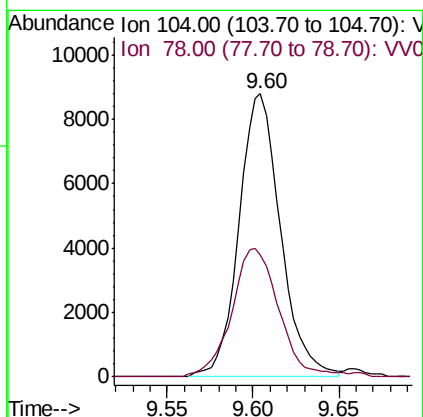
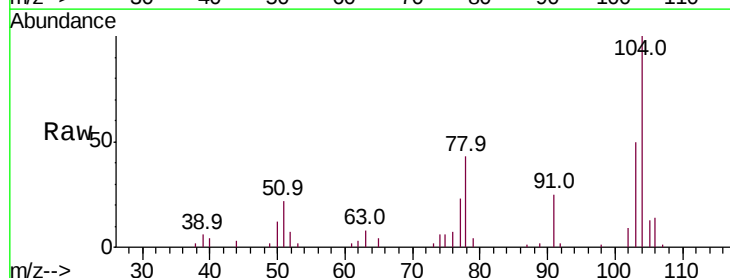
Instrument :
MSVOA_V
ClientSampleId :
VSTD005631

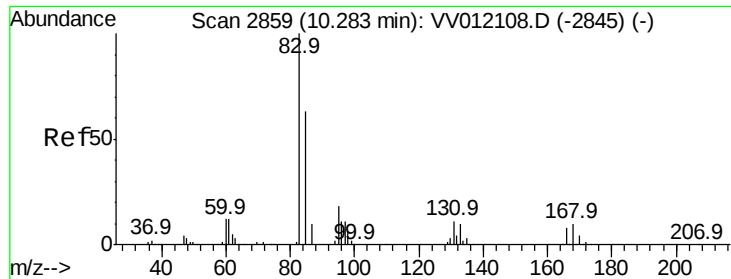
Tot Ion:106 Resp: 9220
Ion Ratio Lower Upper
106 100
91 209.4 150.4 279.2



#55
Styrene
Concen: 4.109 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012106.D
Acq: 06 Aug 2019 09:57

Tgt Ion:104 Resp: 14790
Ion Ratio Lower Upper
104 100
78 43.3 32.0 59.4

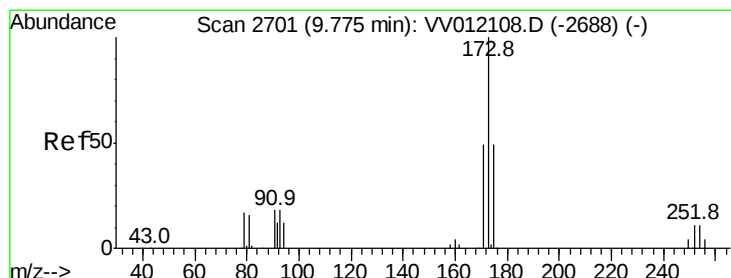
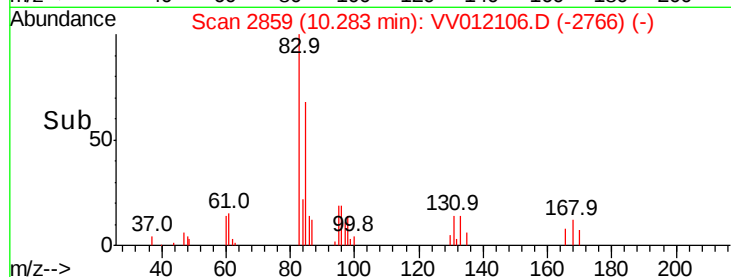
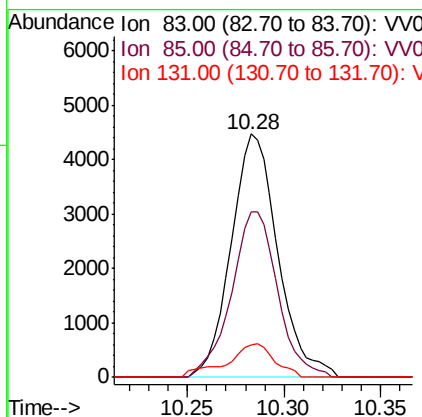
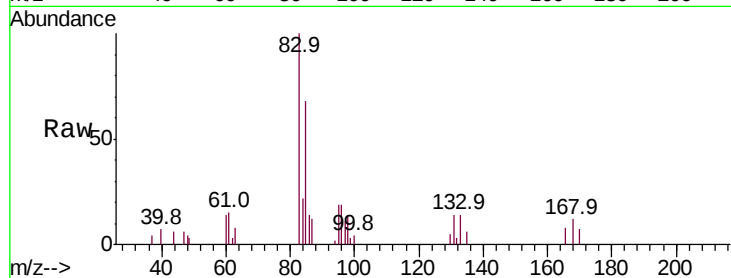




#57
 1,1,2,2-Tetrachloroethane
 Concen: 4.155 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

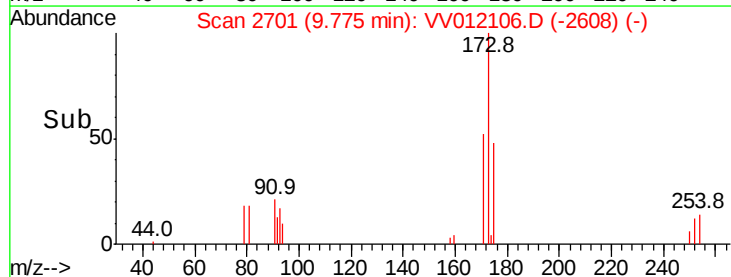
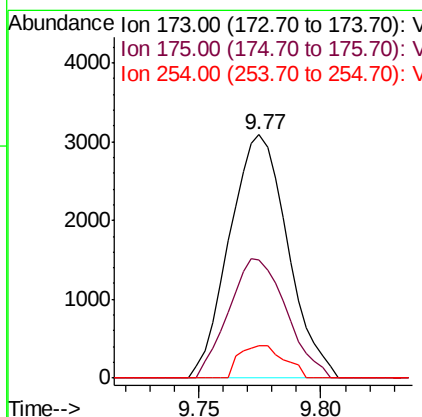
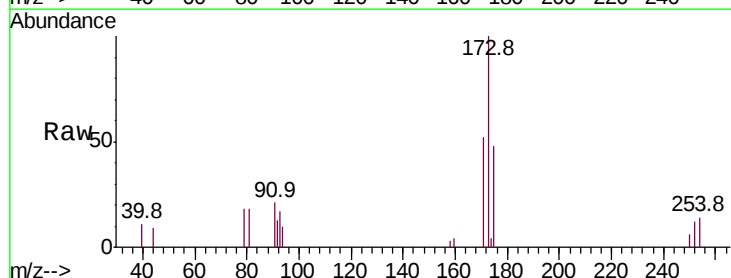
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

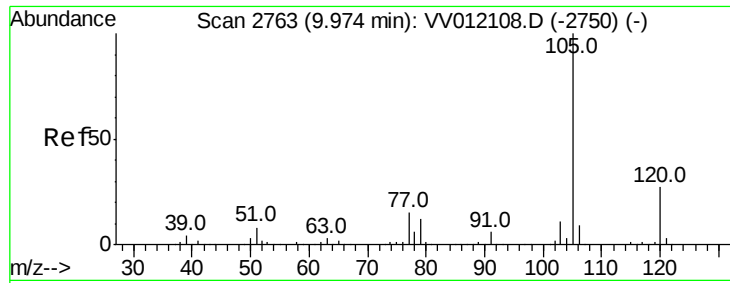
Tot Ion: 83 Resp: 7521
 Ion Ratio Lower Upper
 83 100
 85 67.8 44.6 82.8
 131 13.5 9.3 13.9



#59
 Bromoform
 Concen: 4.395 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion: 173 Resp: 5113
 Ion Ratio Lower Upper
 173 100
 175 48.4 38.3 57.5
 254 10.3 8.9 13.3





#60

Isopropylbenzene

Concen: 4.319 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

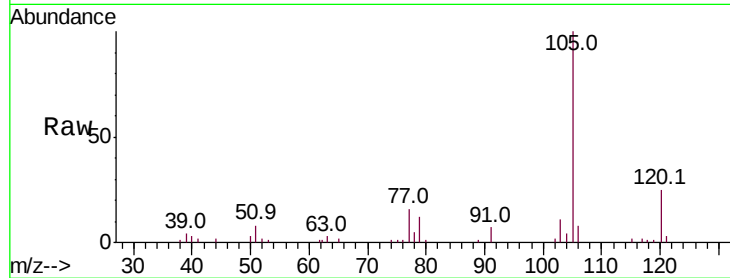
Tot Ion:105 Resp: 23450

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.0

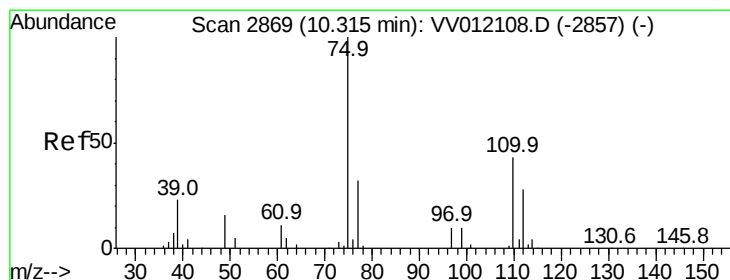
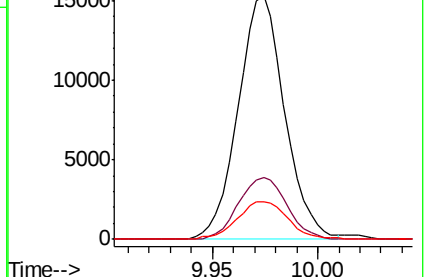
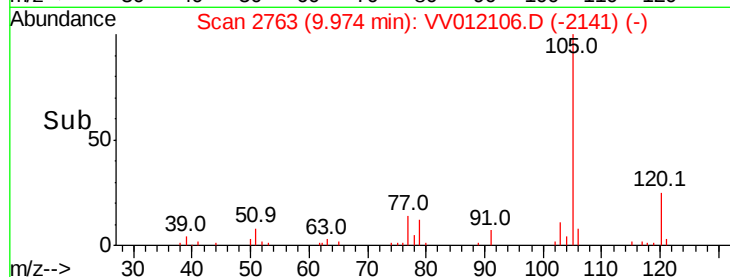
77 16.9 11.6 17.4



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



#61

1,2,3-Trichloropropane

Concen: 4.521 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

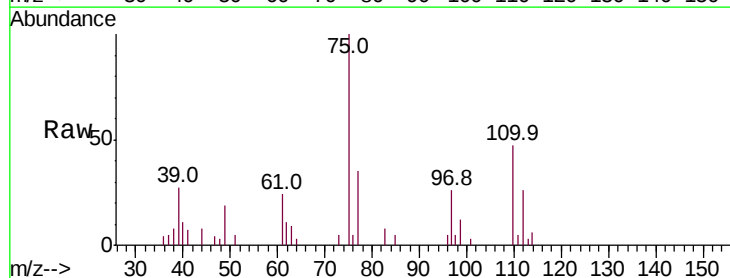
Tgt Ion: 75 Resp: 6089

Ion Ratio Lower Upper

75 100

77 37.4 25.7 38.5

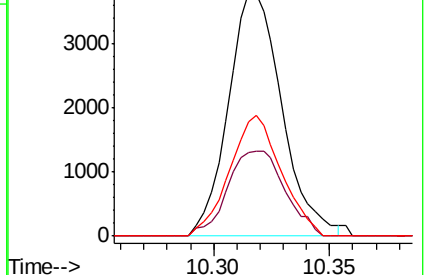
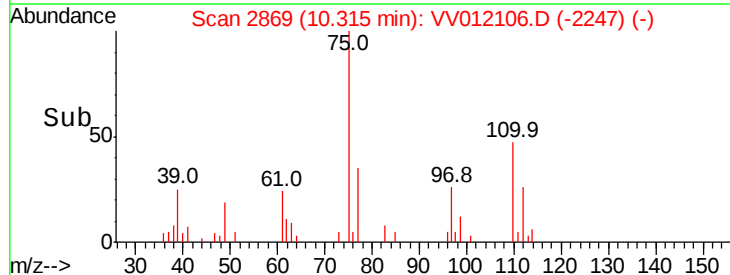
110 47.7 34.2 51.4

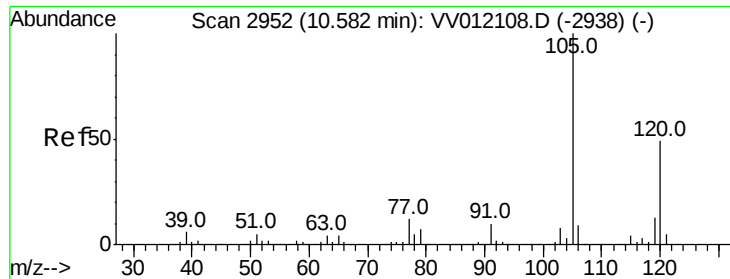


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

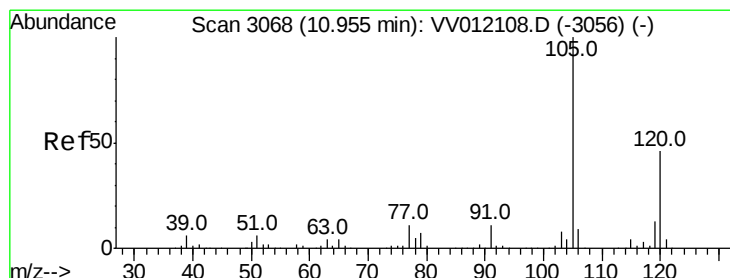
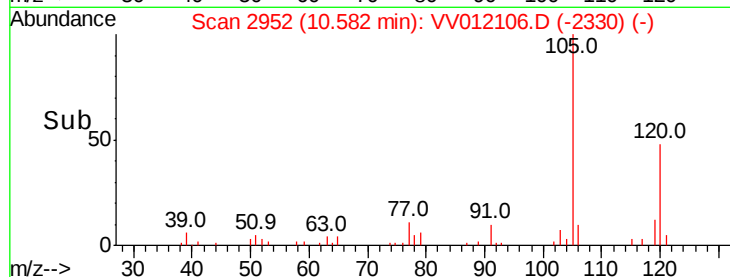
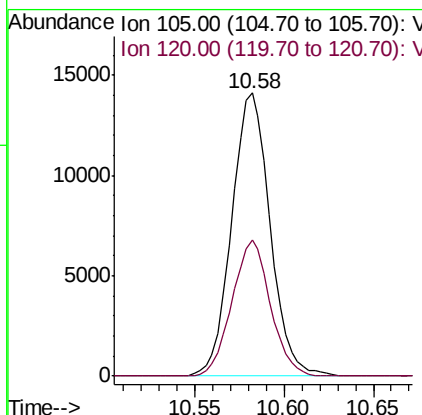
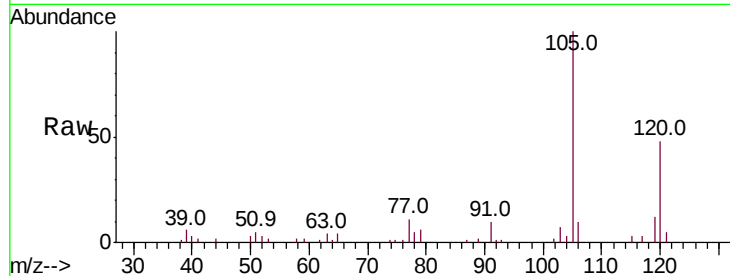




#62
 1,3,5-Trimethylbenzene
 Concen: 4.559 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

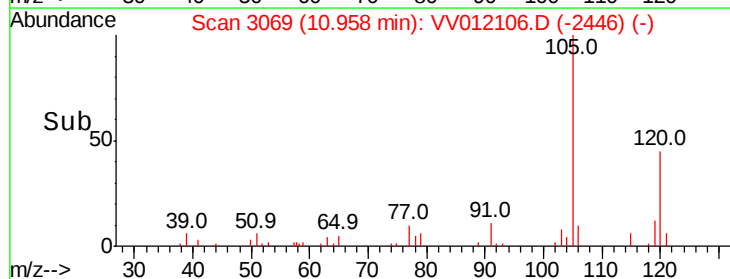
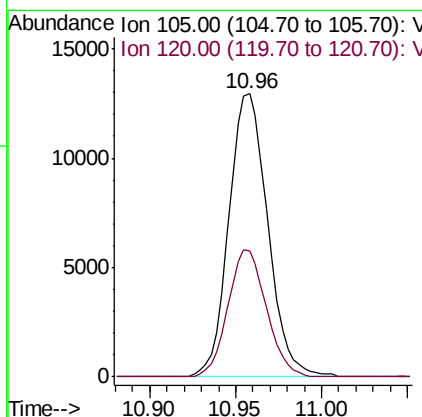
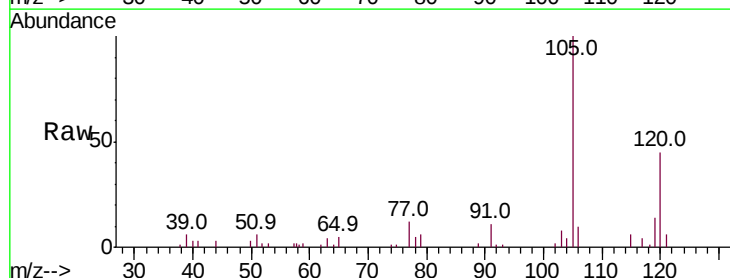
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

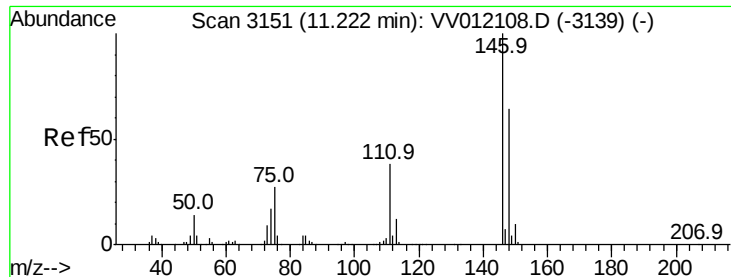
Tot Ion:105 Resp: 21209
 Ion Ratio Lower Upper
 105 100
 120 47.8 39.2 58.8



#63
 1,2,4-Trimethylbenzene
 Concen: 4.356 ug/L
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion:105 Resp: 20359
 Ion Ratio Lower Upper
 105 100
 120 44.3 36.7 55.1





#64

1,3-Dichlorobenzene

Concen: 4.620 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD005631

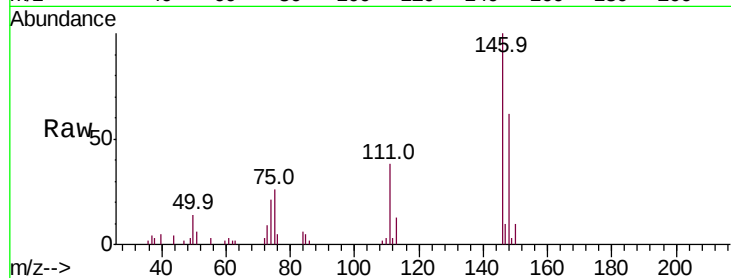
Tot Ion:146 Resp: 12657

Ion Ratio Lower Upper

146 100

111 38.2 26.8 49.8

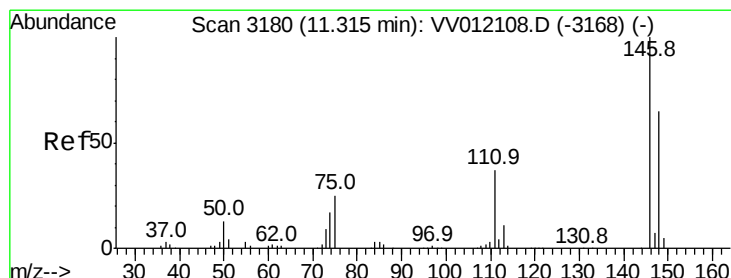
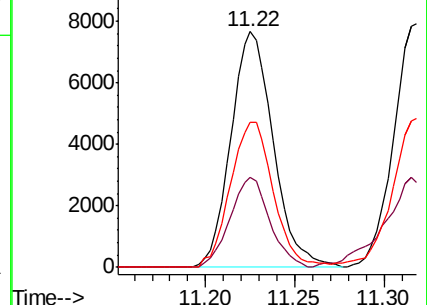
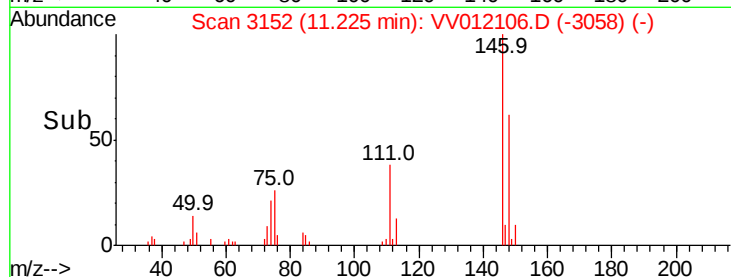
148 61.8 44.6 82.8



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



#65

1,4-Dichlorobenzene

Concen: 4.650 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

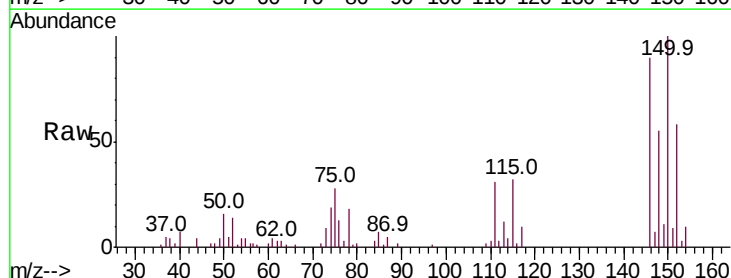
Tgt Ion:146 Resp: 12875

Ion Ratio Lower Upper

146 100

111 34.8 25.8 47.8

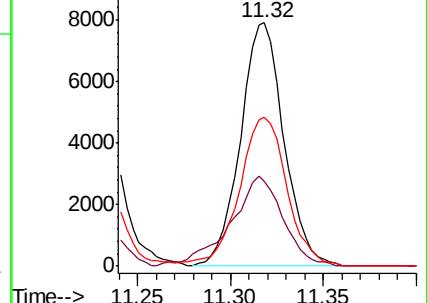
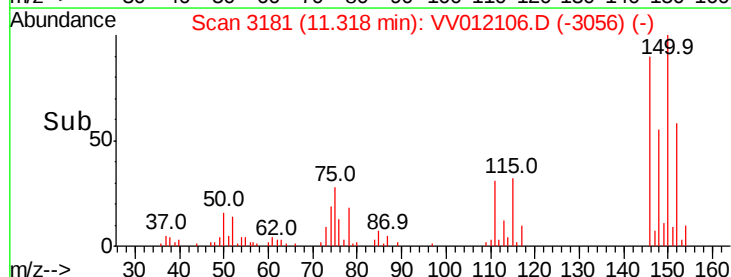
148 61.2 45.2 84.0

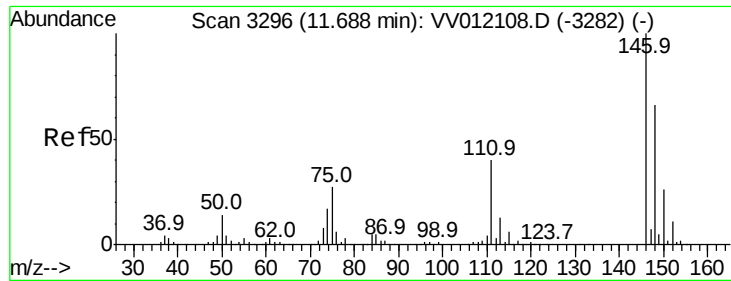


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

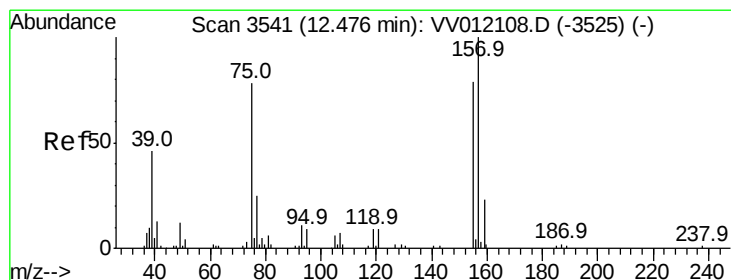
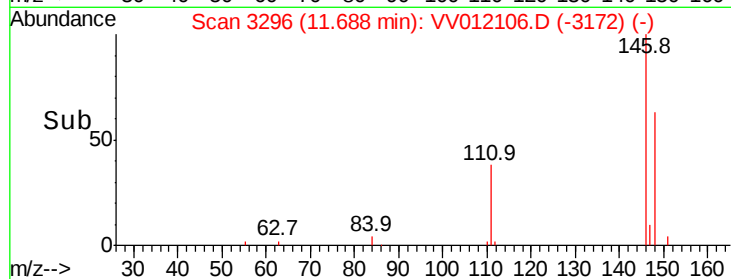
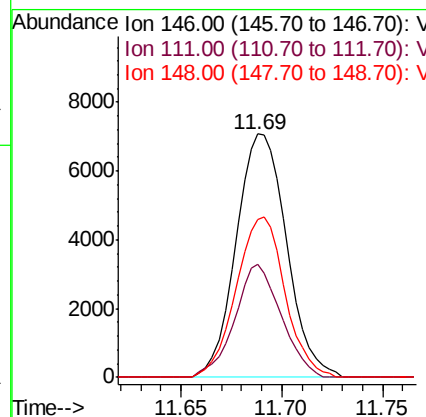
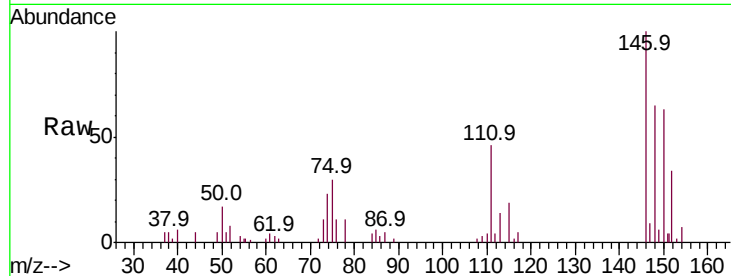




#67
 1,2-Dichlorobenzene
 Concen: 4.432 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

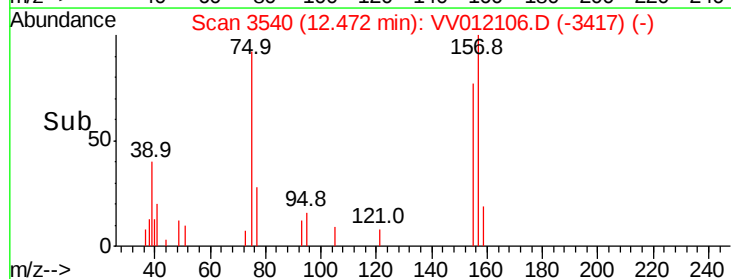
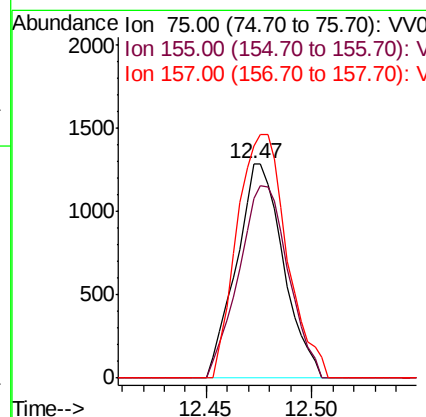
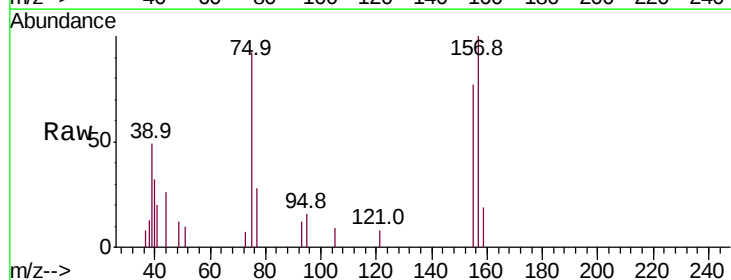
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

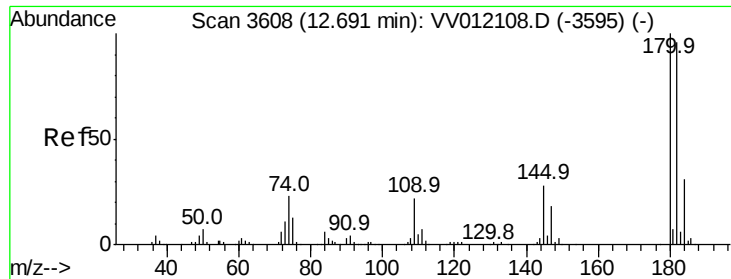
Tot Ion:146 Resp: 12387
 Ion Ratio Lower Upper
 146 100
 111 46.3 32.2 48.2
 148 64.8 53.2 79.8



#68
 1,2-Dibromo-3-chloropropane
 Concen: 4.472 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion: 75 Resp: 1985
 Ion Ratio Lower Upper
 75 100
 155 83.9 81.2 121.8
 157 108.4 102.3 153.5

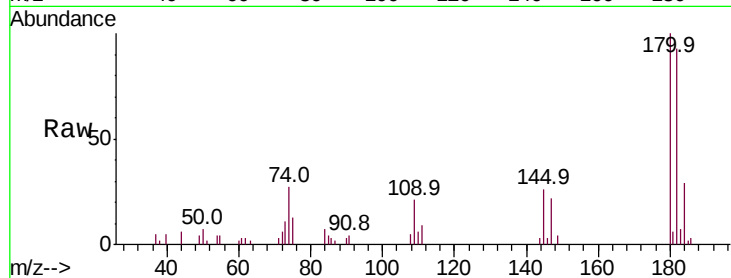




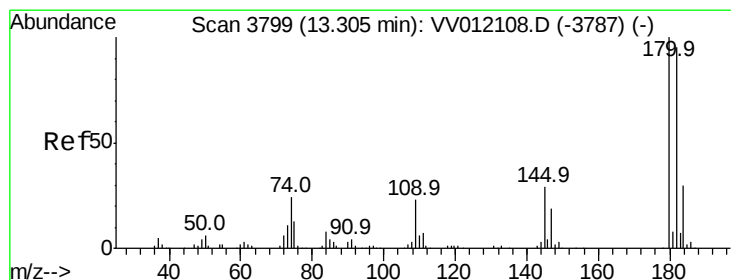
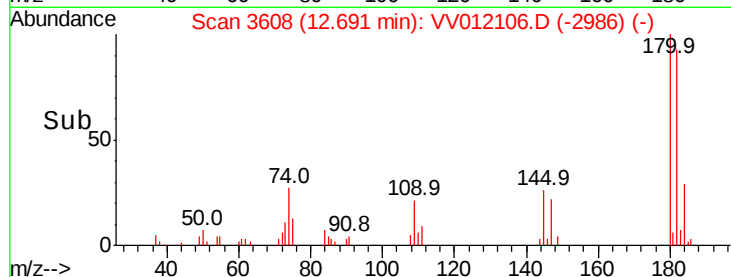
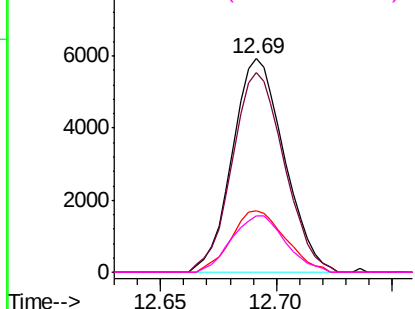
#69
 1,3,5-Trichlorobenzene
 Concen: 4.155 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005631

Tot Ion:180 Resp: 9226
 Ion Ratio Lower Upper
 180 100
 182 93.3 76.5 114.7
 184 29.9 24.6 36.8
 145 27.4 22.5 33.7

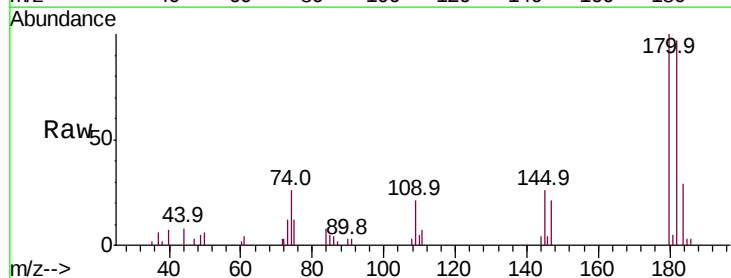


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

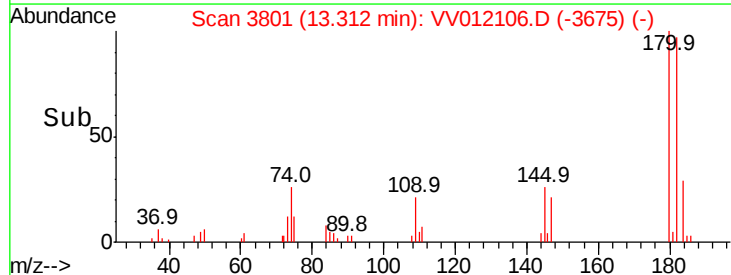
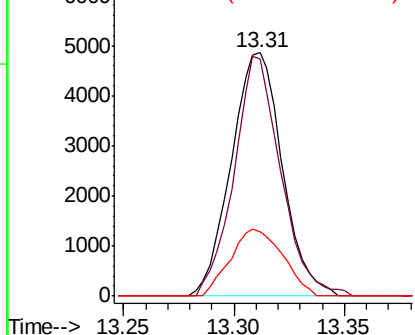


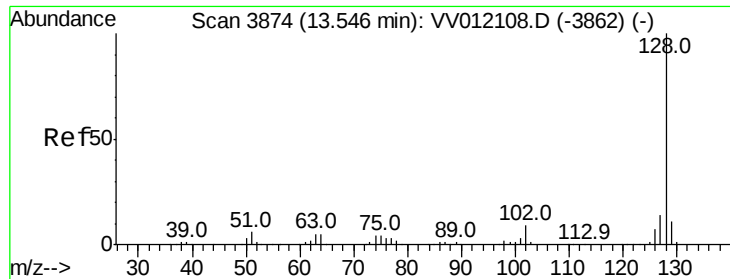
#70
 1,2,4-trichlorobenzene
 Concen: 4.061 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012106.D
 Acq: 06 Aug 2019 09:57

Tgt Ion:180 Resp: 7820
 Ion Ratio Lower Upper
 180 100
 182 90.0 76.5 114.7
 145 28.2 23.3 34.9



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





#71

Naphthalene

Concen: 3.534 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.01 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

Instrument :

MSVOA_V

ClientSampled :

VSTD005631

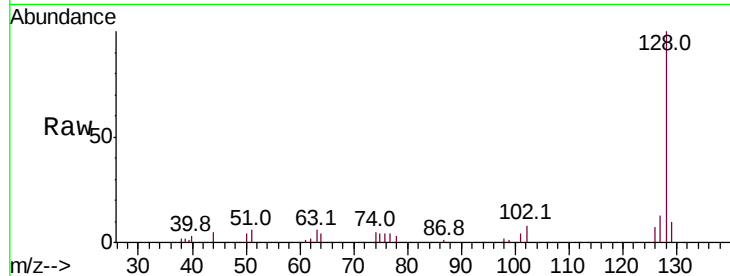
Tot Ion:128 Resp: 17245

Ion Ratio Lower Upper

128 100

127 9.6 10.6 15.8#

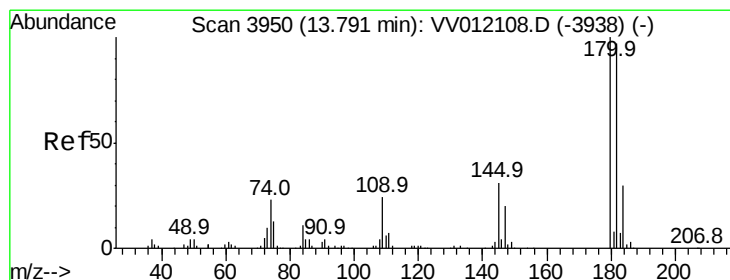
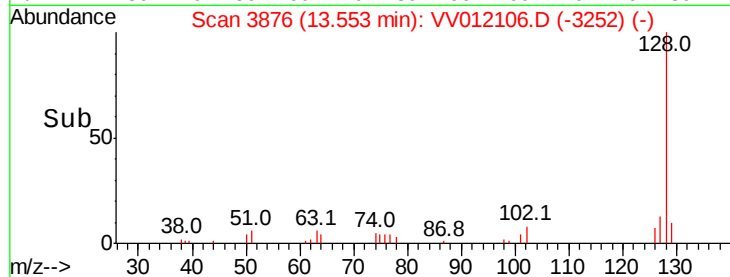
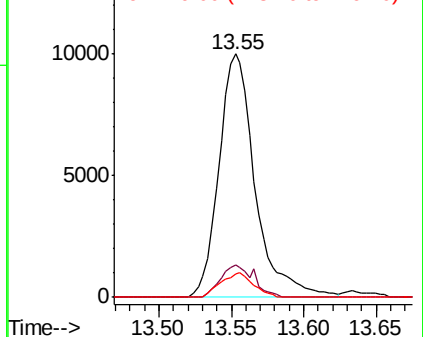
129 9.0 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 3.904 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV012106.D

Acq: 06 Aug 2019 09:57

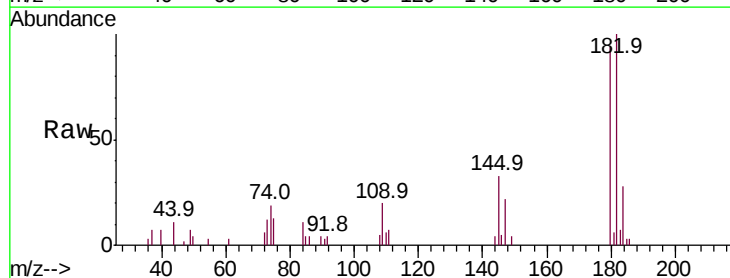
Tgt Ion:180 Resp: 7564

Ion Ratio Lower Upper

180 100

182 95.8 77.2 115.8

145 33.5 24.6 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

