

Data File : VV010692.D
Acq On : 07 May 2019 13:08
Operator : SY/MD
Sample : VSTD10065
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

Quant Time: May 08 02:32:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM050719S.M
Quant Title : VOC Analysis
QLast Update : Wed May 08 02:27:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	106771	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	106901	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	54397	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	157346	94.86	ug/L	0.00
7) Chloroethane-d5	1.56	69	126026	92.33	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	330726	91.92	ug/L	0.00
20) 2-Butanone-d5	3.93	46	118608	231.96	ug/L	0.00
24) Chloroform-d	4.40	84	300704	103.30	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	189316	104.14	ug/L	0.00
29) Benzene-d6	5.10	84	585050	103.98	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	186162	103.83	ug/L	0.00
37) Toluene-d8	7.36	98	571841	106.13	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	94866	116.06	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	91518	243.93	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	195872	116.24	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	208083	98.77	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	140378	94.929	ug/L	99
3) Chloromethane	1.25	50	174278	96.882	ug/L	98
5) Vinyl chloride	1.32	62	195713	93.700	ug/L	99
6) Bromomethane	1.51	94	74886	73.928	ug/L	100
8) Chloroethane	1.58	64	115001	88.407	ug/L	98
9) Trichlorofluoromethane	1.76	101	283369	90.122	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	165816	92.371	ug/L	99
12) 1,1-Dichloroethene	2.13	96	156212	92.934	ug/L	94
13) Acetone	2.19	43	157903	204.919	ug/L	100
14) Carbon disulfide	2.31	76	413444	100.091	ug/L	98
15) Methyl Acetate	2.46	43	96643	104.986	ug/L	98
16) Methylene chloride	2.53	84	156609	94.863	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	445262	105.787	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	152498	100.367	ug/L	97
19) 1,1-Dichloroethane	3.23	63	296127	100.954	ug/L	99
21) 2-Butanone	4.01	43	175290	236.672	ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	175960	101.378	ug/L	97
23) Bromochloromethane	4.30	128	81435	104.374	ug/L	96
25) Chloroform	4.42	83	313904	97.141	ug/L	98
27) 1,2-Dichloroethane	5.18	62	240742	101.924	ug/L	99
30) Cyclohexane	4.72	56	275759	102.852	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	269954	101.280	ug/L	99
32) Carbon tetrachloride	4.87	117	239991	103.366	ug/L	98
34) Benzene	5.14	78	653814	104.185	ug/L	100
35) Trichloroethene	5.96	95	179118	101.897	ug/L	99
36) Methylcyclohexane	6.18	83	297277	105.518	ug/L	96
40) 1,2-Dichloropropane	6.22	63	174194	104.345	ug/L	99
41) Bromodichloromethane	6.55	83	248079	108.150	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	302939	114.729	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	320433	228.028	ug/L	98

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	764749	107.298	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	259541	116.730	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	144785	105.571	ug/L	98
47) Tetrachloroethene	8.02	164	126308	99.218	ug/L	91
49) 2-Hexanone	8.18	43	262638	245.827	ug/L	97
50) Dibromochloromethane	8.29	129	179859	114.045	ug/L	100
51) 1,2-Dibromoethane	8.40	107	145771	110.050	ug/L	100
52) Chlorobenzene	8.93	112	491070	105.461	ug/L	99
53) Ethylbenzene	9.06	91	891678	107.896	ug/L	99
54) m,p-Xylene	9.18	106	343178	111.148	ug/L	99
55) o-xylene	9.59	106	341523	111.519	ug/L	98
56) Styrene	9.60	104	604657	116.733	ug/L	98
57) Isopropylbenzene	9.97	105	896333	109.698	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	206592	114.979	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	155867	111.150	ug/L	98
62) Bromoform	9.77	173	108942	117.611	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	378082	99.849	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	383052	99.035	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	370831	100.833	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	37133	108.811	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	269742	98.894	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	230119	109.037	ug/L	98
69) Naphthalene	13.55	128	575899	127.485	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	219657	110.956	ug/L	98

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

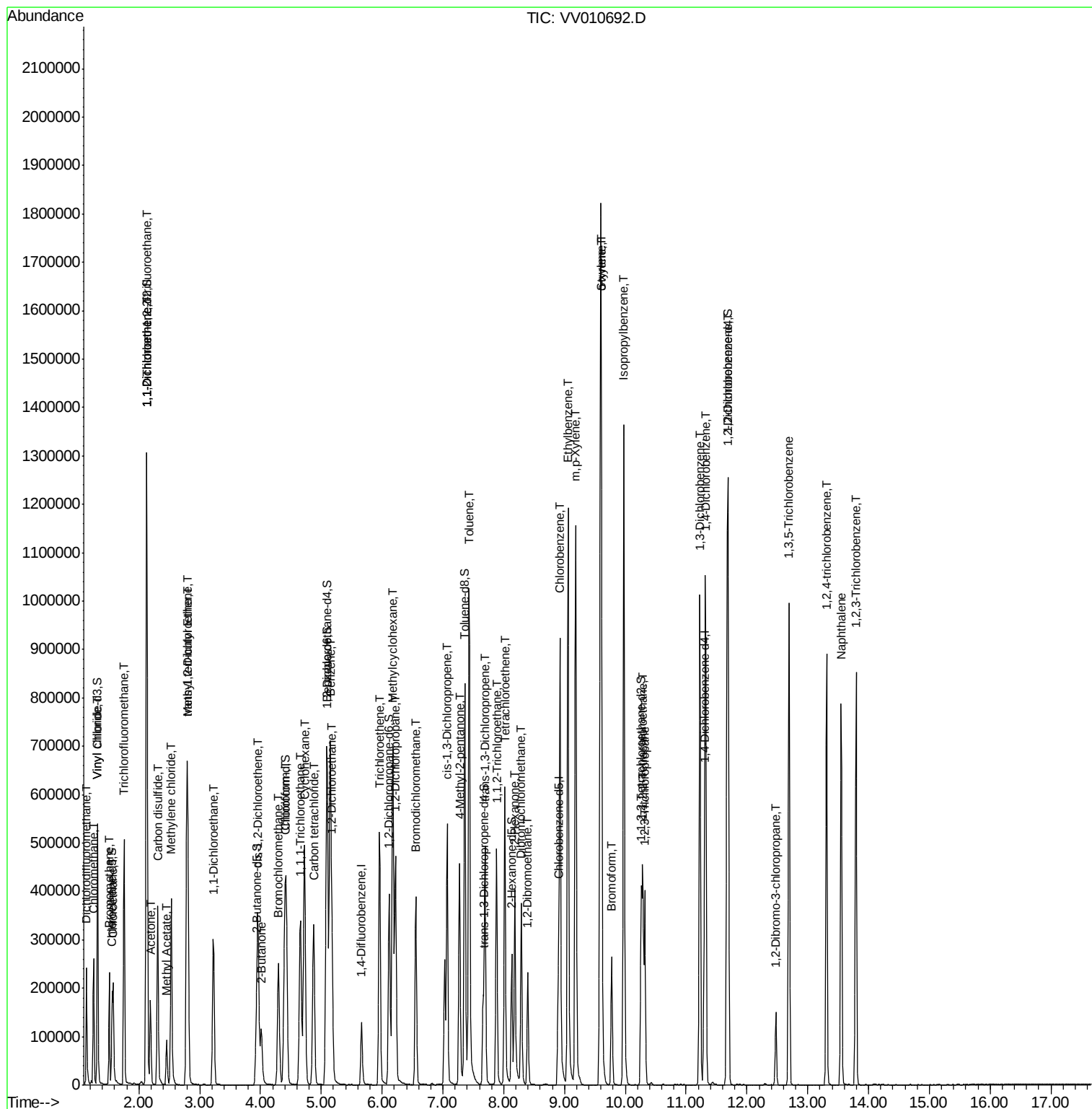
Quant Time: May 08 02:32:18 2019

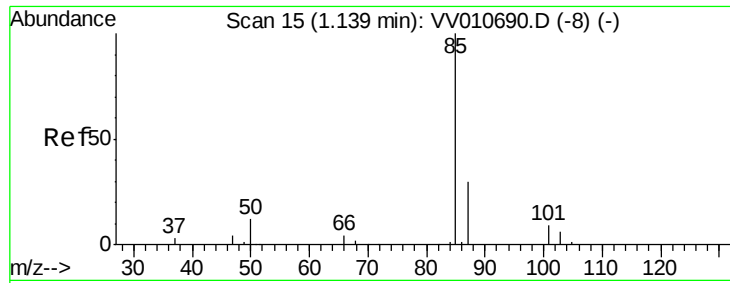
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM050719S.M

Quant Title : VOC Analysis

QLast Update : Wed May 08 02:27:44 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 94.929 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

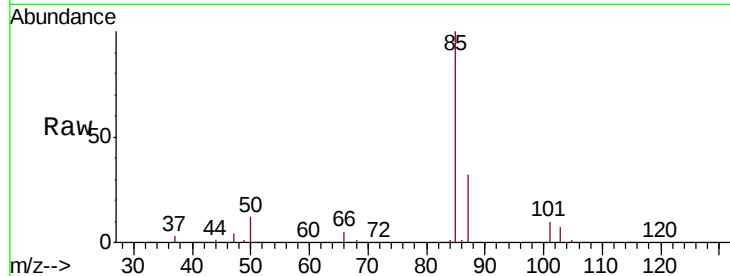
VSTD10065

Tgt Ion: 85 Resp: 140378

Ion Ratio Lower Upper

85 100

87 32.1 21.9 40.7



Abundance Ion 85.00 (84.70 to 85.70): VV010692.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV010692.D (-8) (-)

1.14

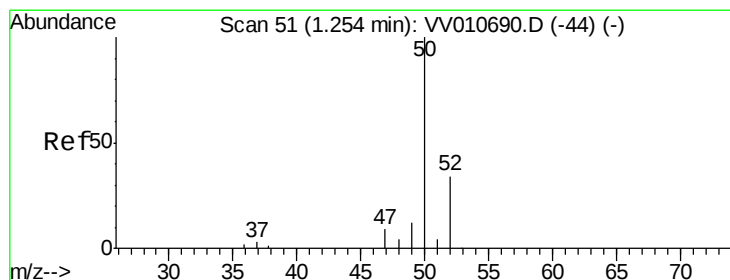
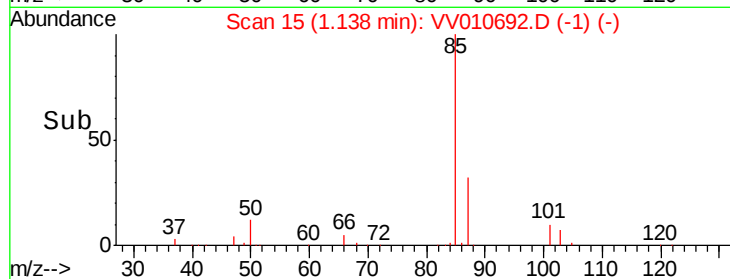
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 96.882 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010692.D

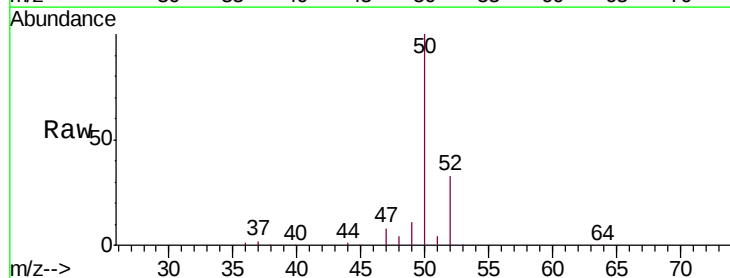
Acq: 07 May 2019 13:08

Tgt Ion: 50 Resp: 174278

Ion Ratio Lower Upper

50 100

52 32.7 23.7 43.9



Abundance Ion 50.00 (49.70 to 50.70): VV010692.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV010692.D (-44) (-)

1.25

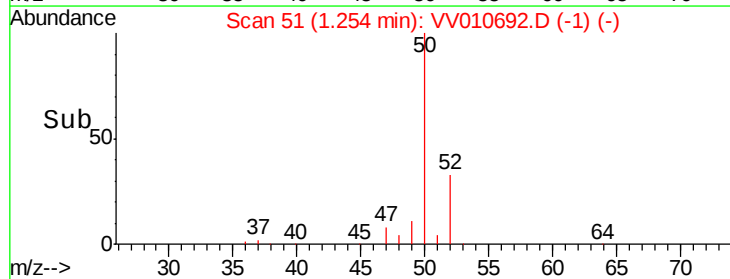
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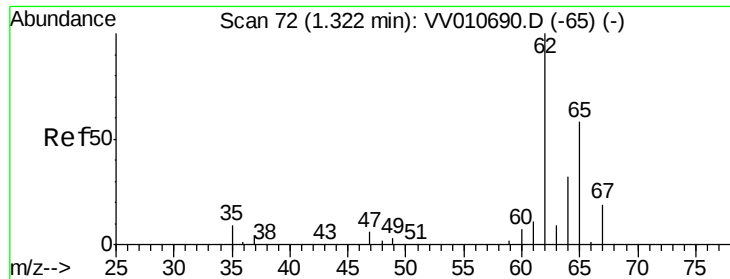
100000

50000

0

Time-->

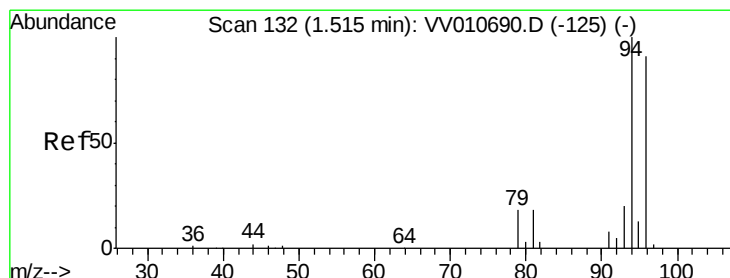
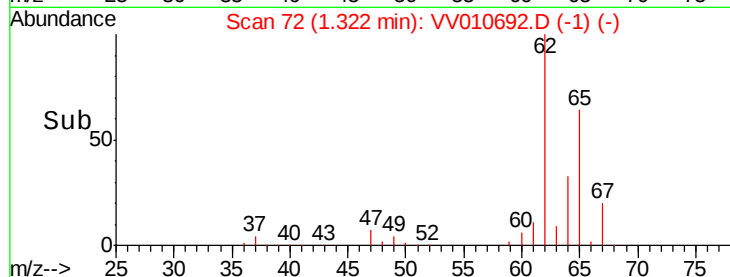
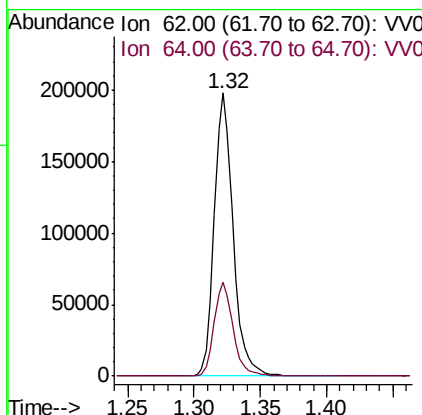
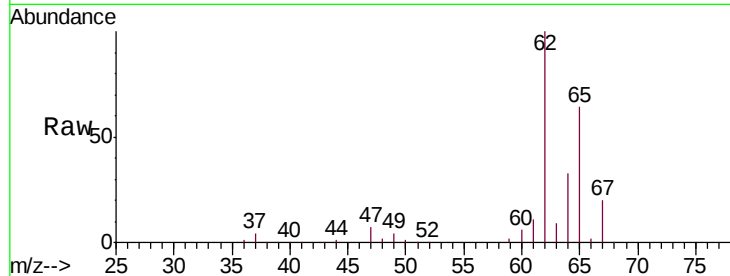




#5
 Vinyl chloride
 Concen: 93.700 ug/L
 RT: 1.32 min Scan# 72
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

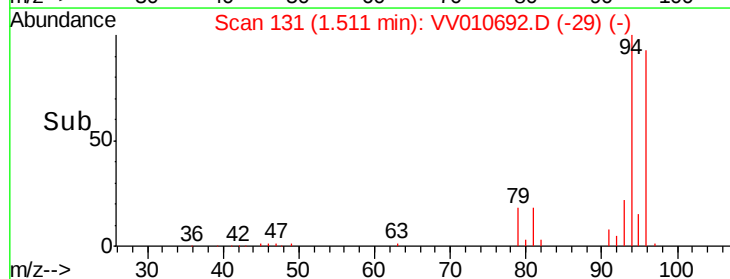
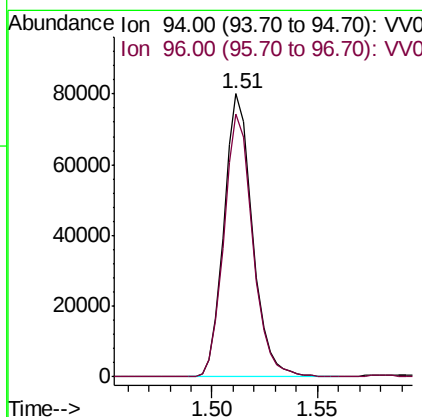
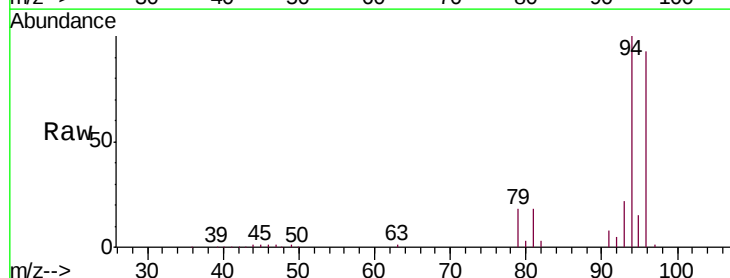
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

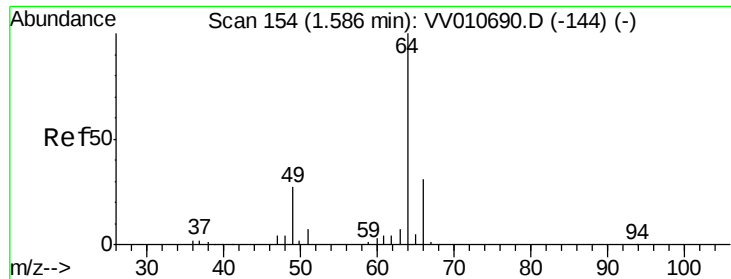
Tgt Ion: 62 Resp: 195713
 Ion Ratio Lower Upper
 62 100
 64 33.1 22.9 42.5



#6
 Bromomethane
 Concen: 73.928 ug/L
 RT: 1.51 min Scan# 131
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion: 94 Resp: 74886
 Ion Ratio Lower Upper
 94 100
 96 94.0 9.4 179.0





#8

Chloroethane

Concen: 88.407 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.01 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

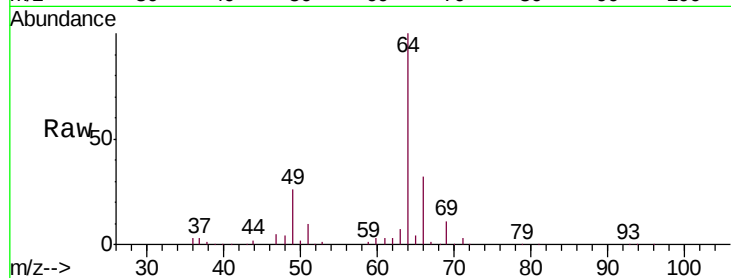
VSTD10065

Tgt Ion: 64 Resp: 115001

Ion Ratio Lower Upper

64 100

66 32.2 21.8 40.4



Abundance Ion 64.00 (63.70 to 64.70): VV010690.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV010692.D (-51) (-)

1.58

100000

80000

60000

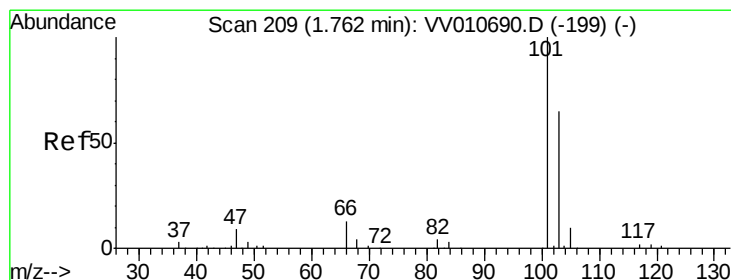
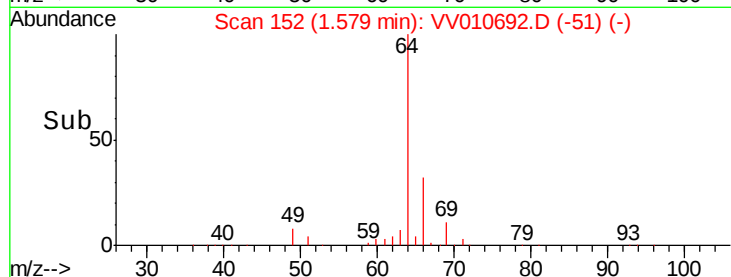
40000

20000

0

1.55 1.60

Time-->



#9

Trichlorofluoromethane

Concen: 90.122 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.01 min

Lab File: VV010692.D

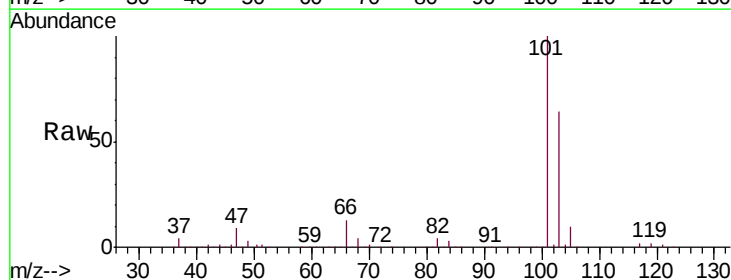
Acq: 07 May 2019 13:08

Tgt Ion: 101 Resp: 283369

Ion Ratio Lower Upper

101 100

103 64.4 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV010690.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV010692.D (-54) (-)

1.76

250000

200000

150000

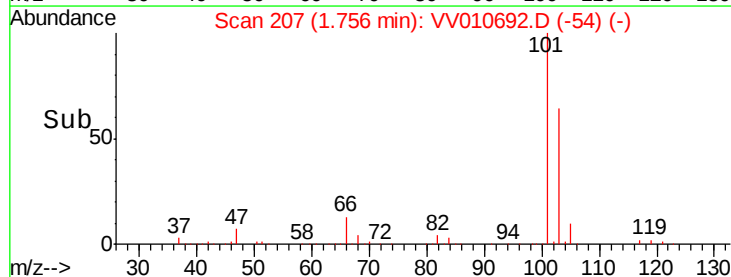
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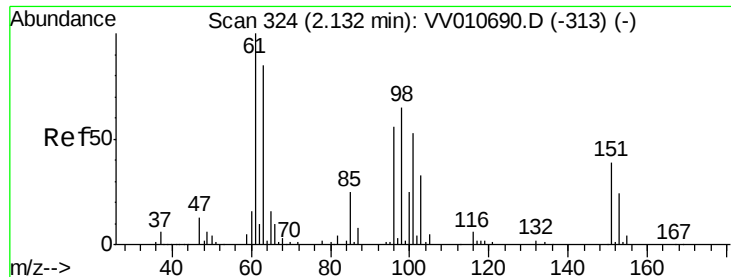
50000

0

1.70 1.75 1.80

Time-->





#11

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

Concen: 92.371 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

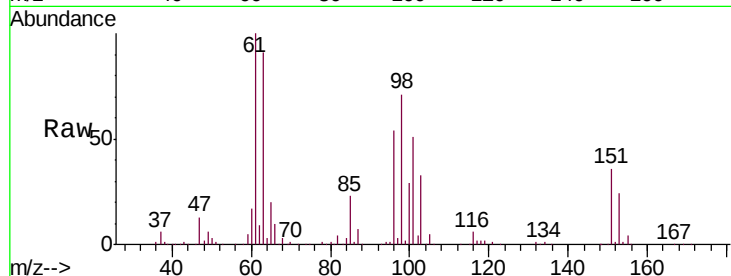
Tgt Ion: 101 Resp: 165816

Ion Ratio Lower Upper

101 100

85 45.3 36.0 54.0

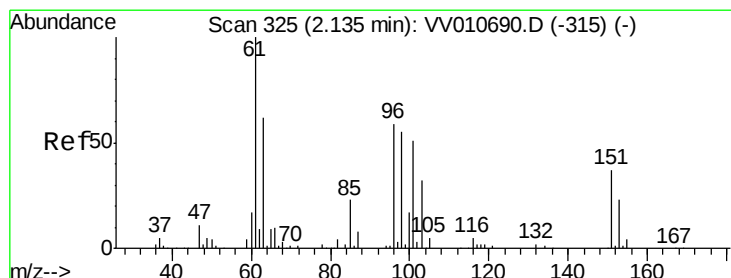
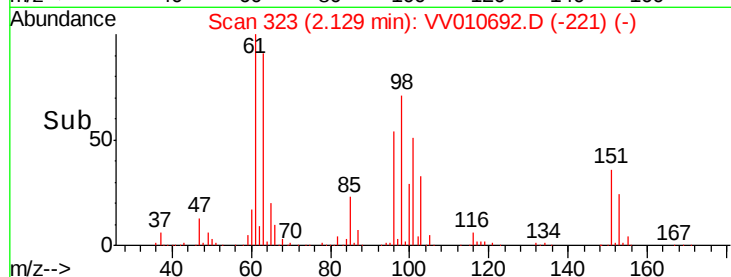
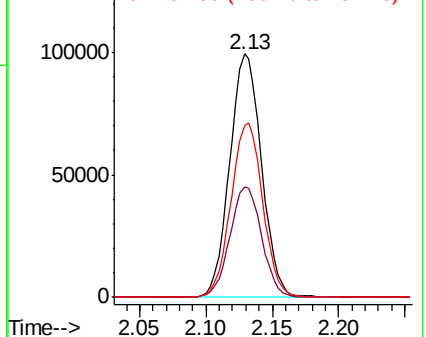
151 71.4 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV010690.D (-313) (-)

Ion 85.00 (84.70 to 85.70): VV010690.D (-313) (-)

Ion 151.00 (150.70 to 151.70): VV010690.D (-313) (-)



#12

1,1-Dichloroethene

Concen: 92.934 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

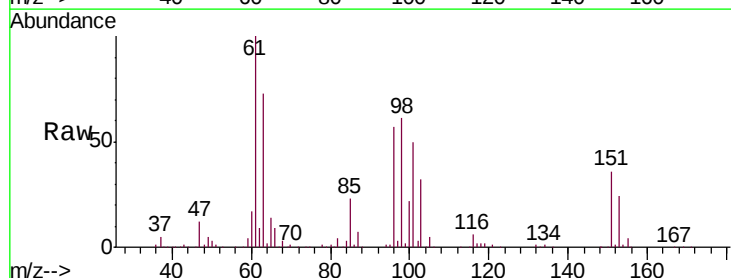
Tgt Ion: 96 Resp: 156212

Ion Ratio Lower Upper

96 100

61 175.9 120.3 223.3

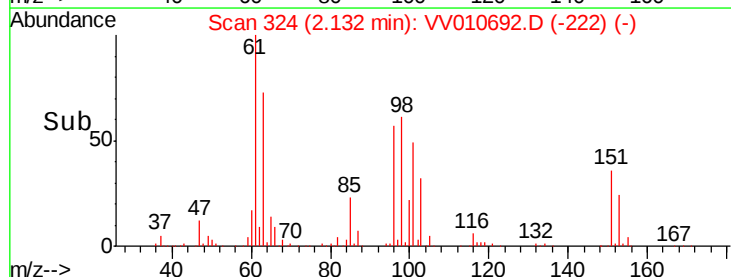
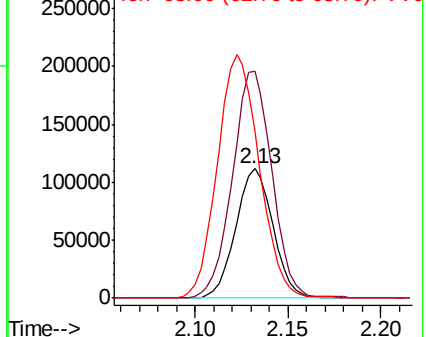
63 128.7 82.9 153.9

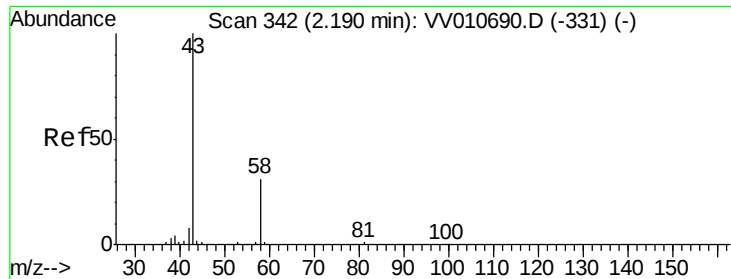


Abundance Ion 96.00 (95.70 to 96.70): VV010690.D (-315) (-)

Ion 61.00 (60.70 to 61.70): VV010690.D (-315) (-)

Ion 63.00 (62.70 to 63.70): VV010690.D (-315) (-)





#13

Acetone

Concen: 204.919 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

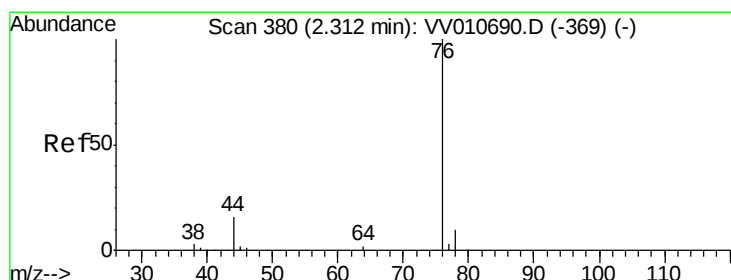
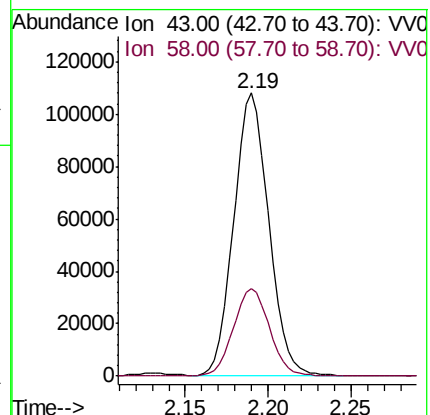
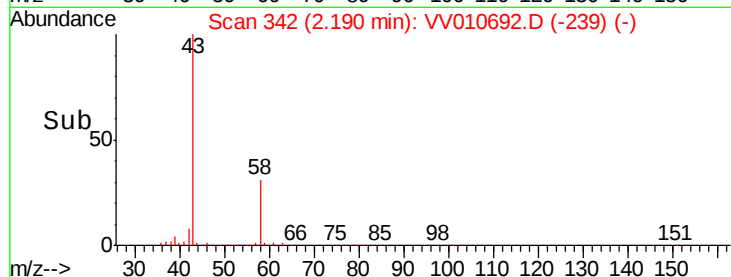
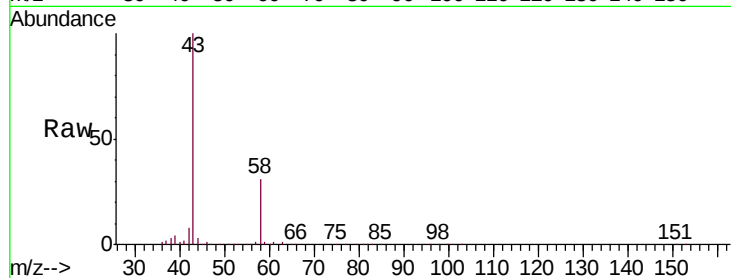
VSTD10065

Tgt Ion: 43 Resp: 157903

Ion Ratio Lower Upper

43 100

58 32.0 0.0 63.4



#14

Carbon disulfide

Concen: 100.091 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV010692.D

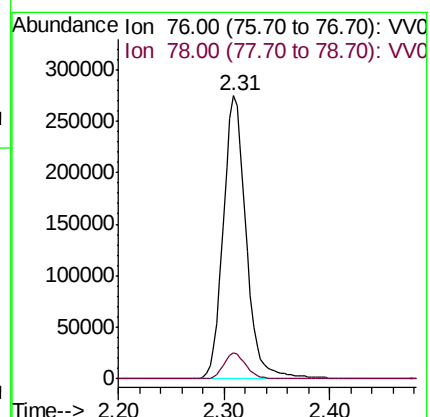
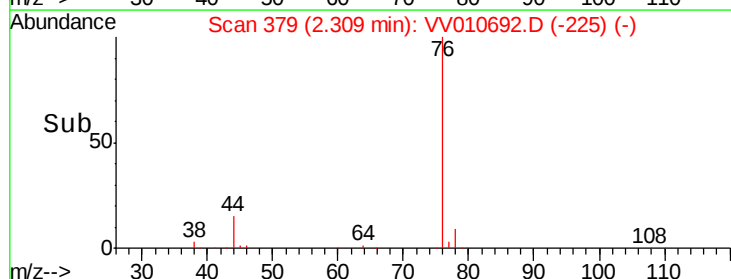
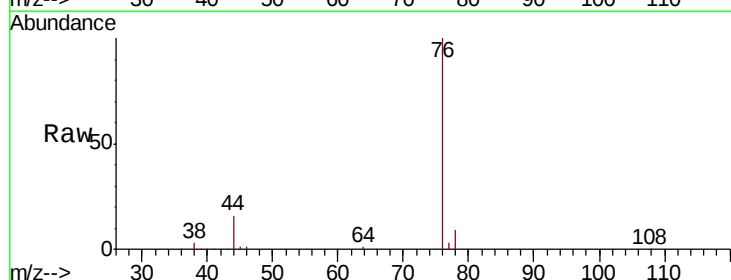
Acq: 07 May 2019 13:08

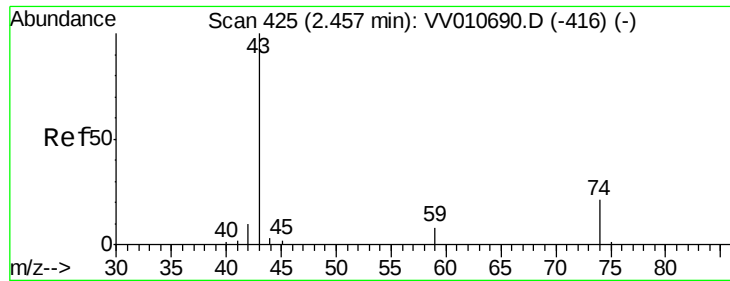
Tgt Ion: 76 Resp: 413444

Ion Ratio Lower Upper

76 100

78 9.0 7.8 11.8

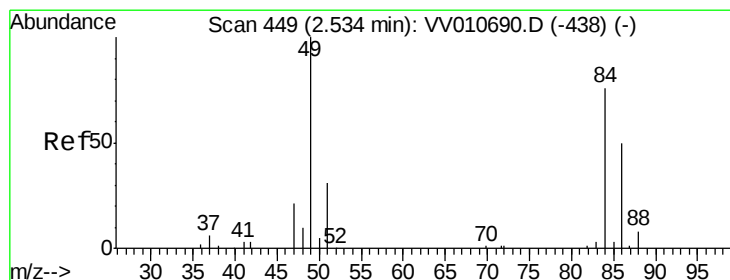
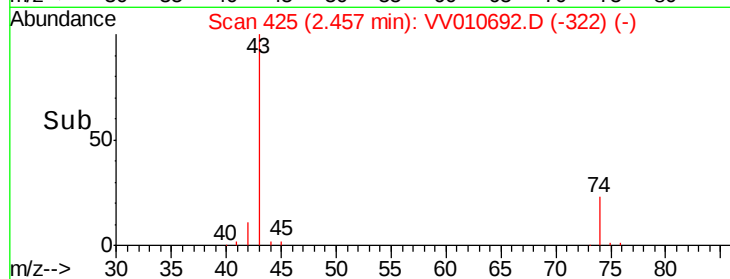
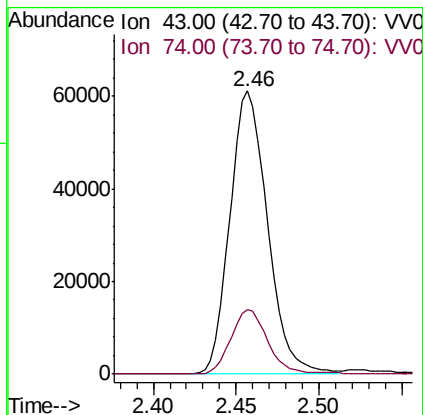
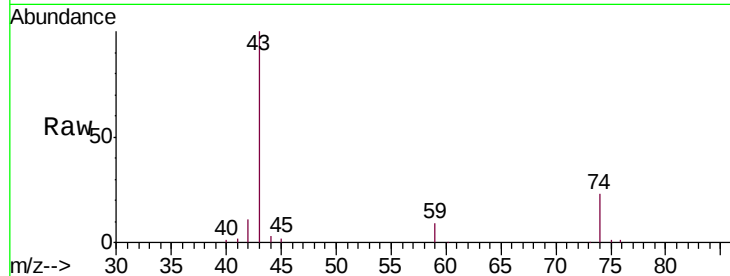




#15
Methyl Acetate
Concen: 104.986 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

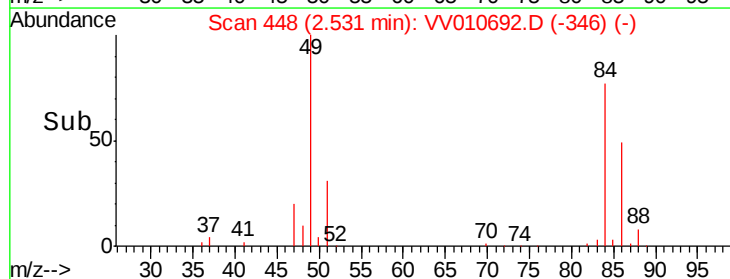
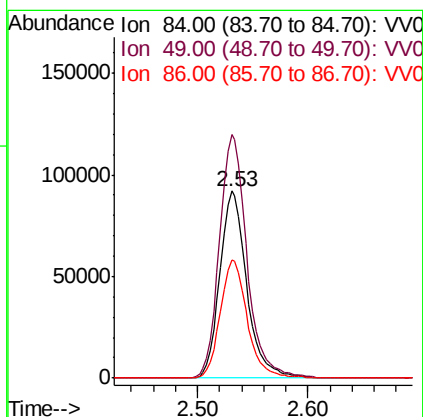
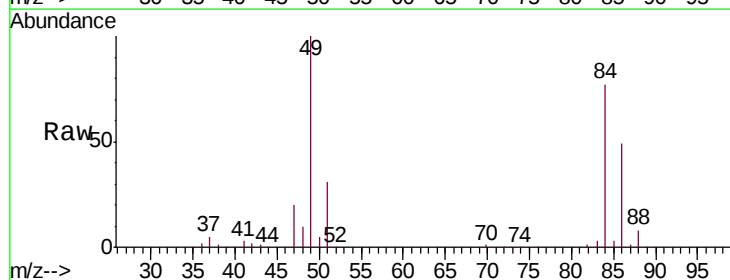
Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

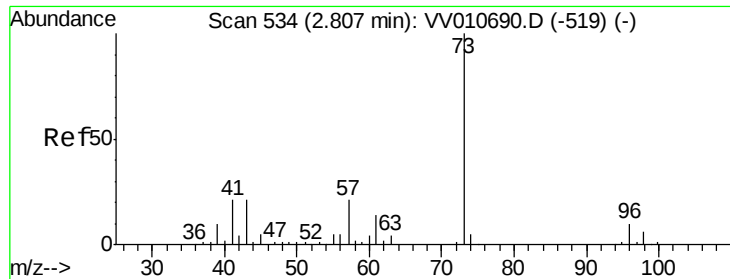
Tgt Ion: 43 Resp: 96643
Ion Ratio Lower Upper
43 100
74 22.0 17.0 25.4



#16
Methylene chloride
Concen: 94.863 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Tgt Ion: 84 Resp: 156609
Ion Ratio Lower Upper
84 100
49 130.2 92.9 172.5
86 63.2 46.5 86.5

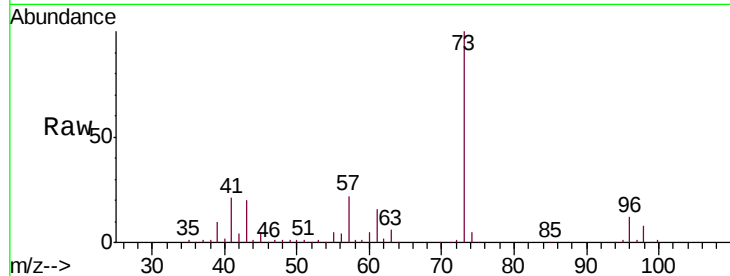




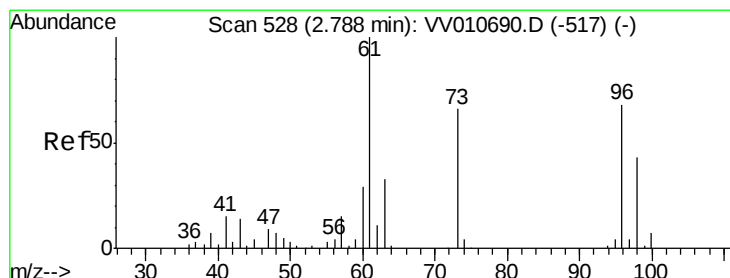
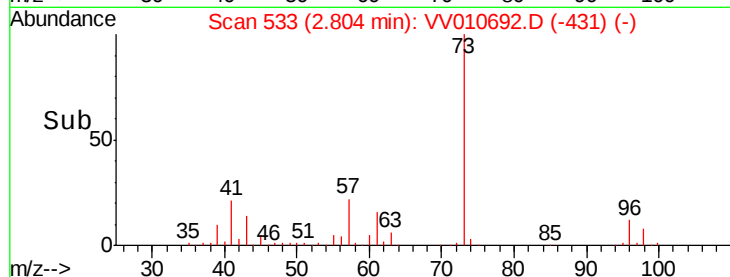
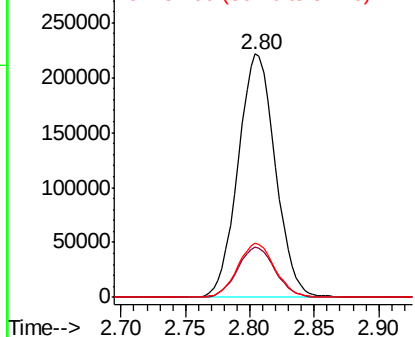
#17
Methyl tert-butyl Ether
Concen: 105.787 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

Tgt Ion: 73 Resp: 445262
Ion Ratio Lower Upper
73 100
43 20.7 16.6 25.0
57 22.3 17.4 26.2

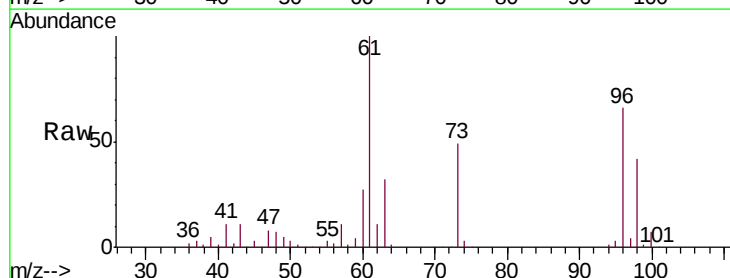


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

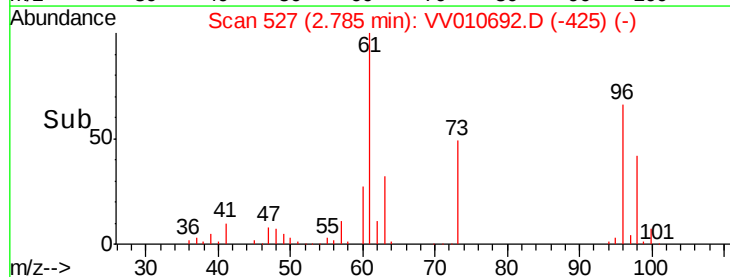
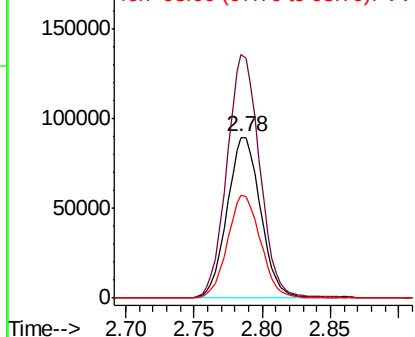


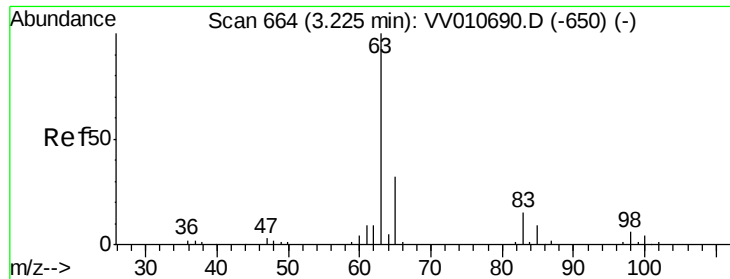
#18
trans-1,2-Dichloroethene
Concen: 100.367 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Tgt Ion: 96 Resp: 152498
Ion Ratio Lower Upper
96 100
61 151.6 102.8 190.8
98 63.9 44.0 81.6



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

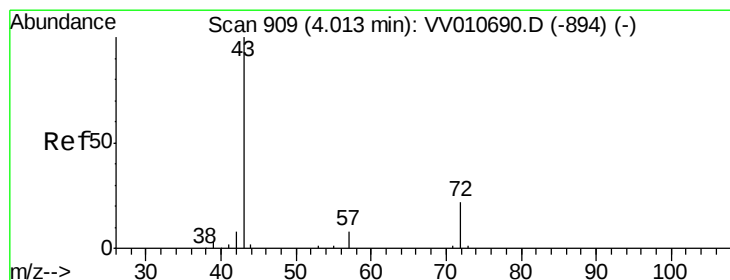
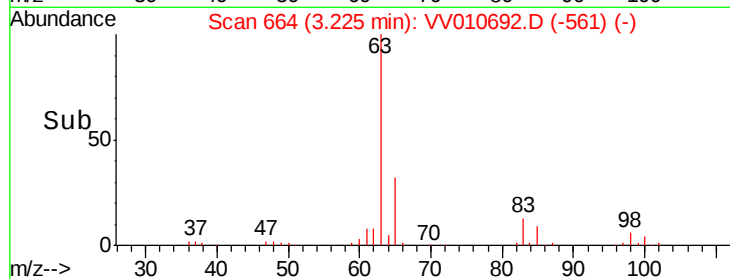
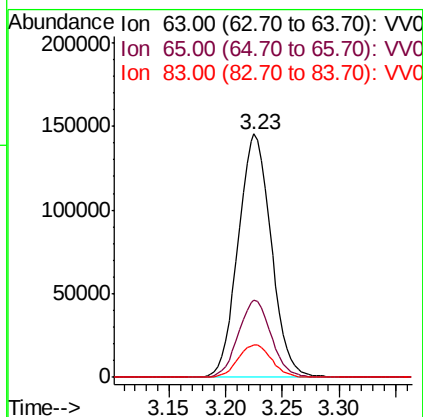
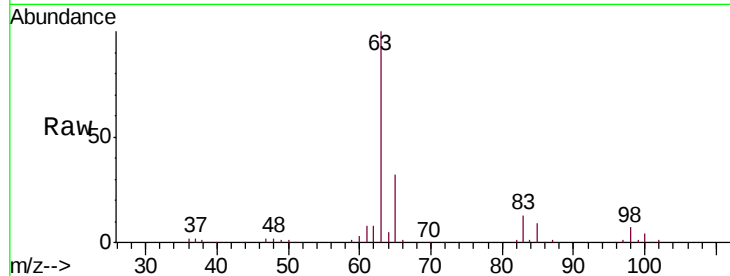




#19
 1,1-Dichloroethane
 Concen: 100.954 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

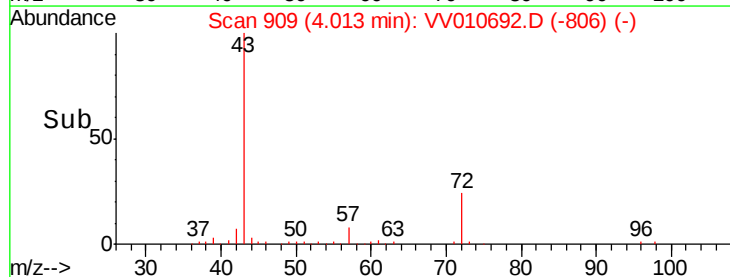
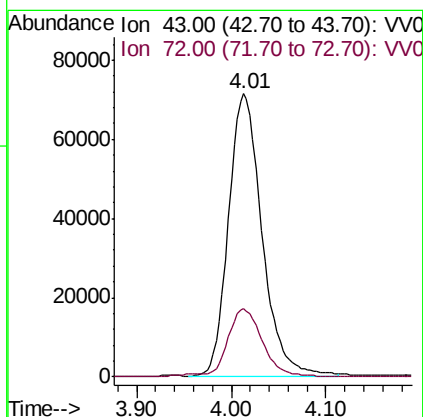
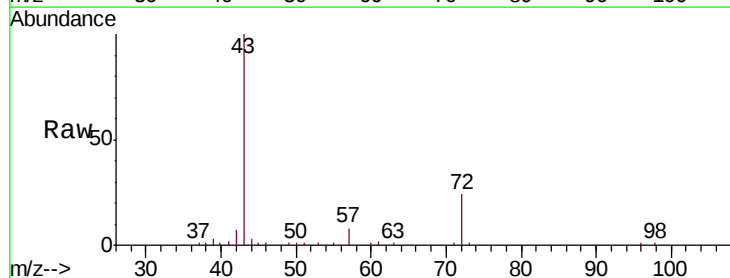
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

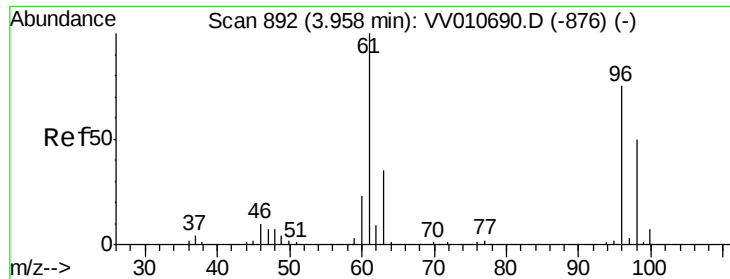
Tgt Ion: 63 Resp: 296127
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.5 41.7
 83 13.4 10.3 19.1



#21
 2-Butanone
 Concen: 236.672 ug/L
 RT: 4.01 min Scan# 909
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion: 43 Resp: 175290
 Ion Ratio Lower Upper
 43 100
 72 24.7 11.2 33.6



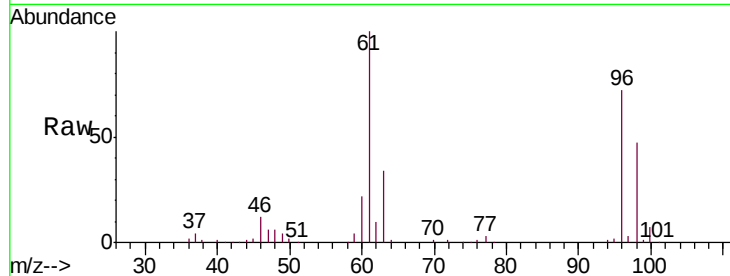


#22

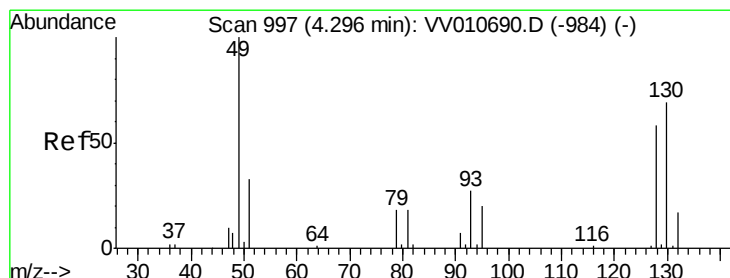
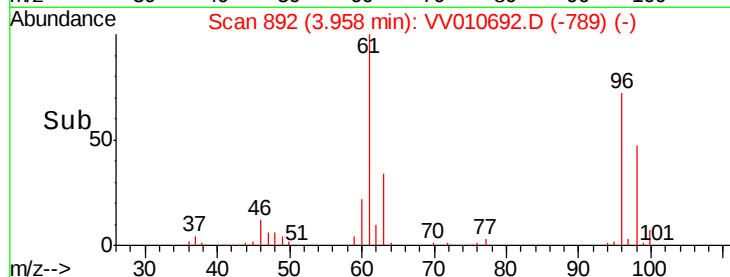
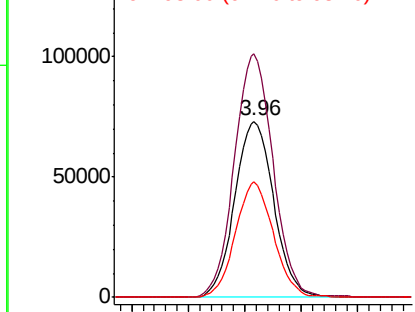
cis-1,2-Dichloroethene
 Concen: 101.378 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

Tgt Ion: 96 Resp: 175960
 Ion Ratio Lower Upper
 96 100
 61 138.3 93.9 174.5
 98 65.7 46.5 86.5



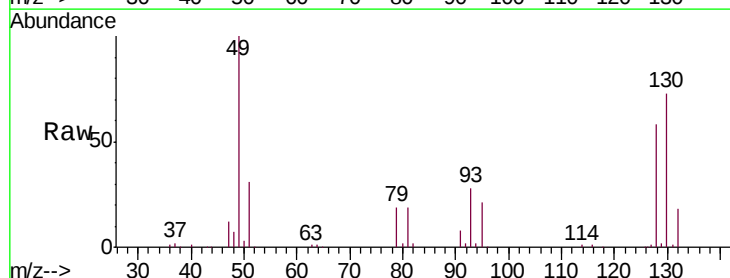
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



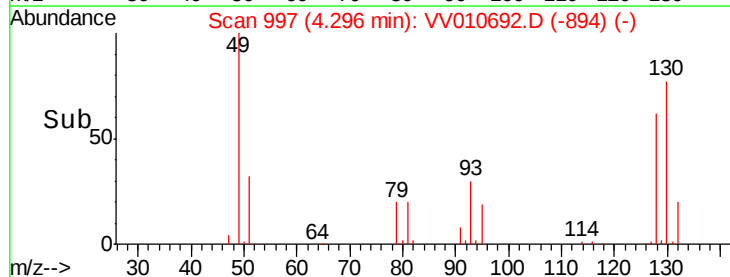
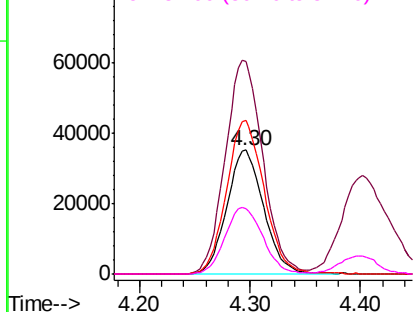
#23

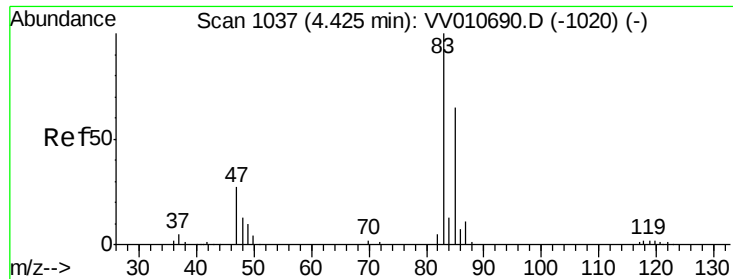
Bromochloromethane
 Concen: 104.374 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion: 128 Resp: 81435
 Ion Ratio Lower Upper
 128 100
 49 171.1 122.6 227.8
 130 124.1 84.0 156.0
 51 52.5 45.0 67.4



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

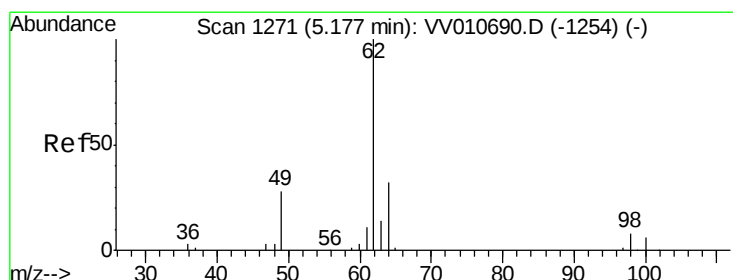
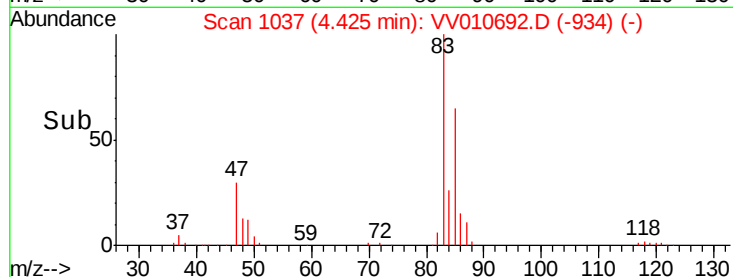
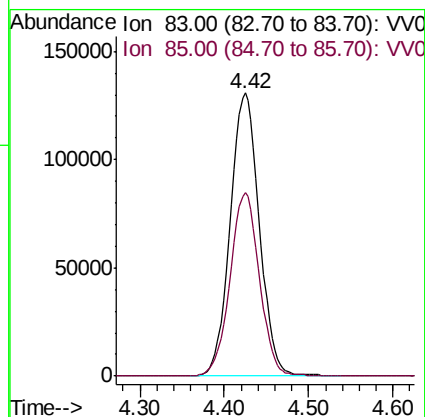
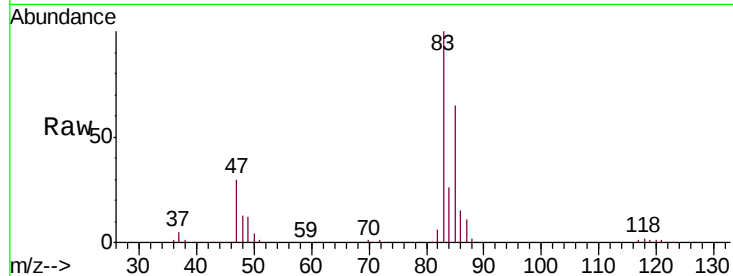




#25
Chloroform
Concen: 97.141 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

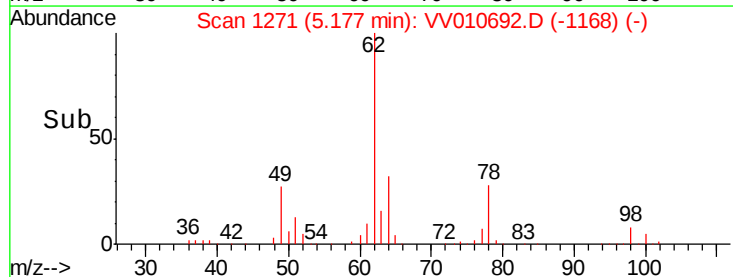
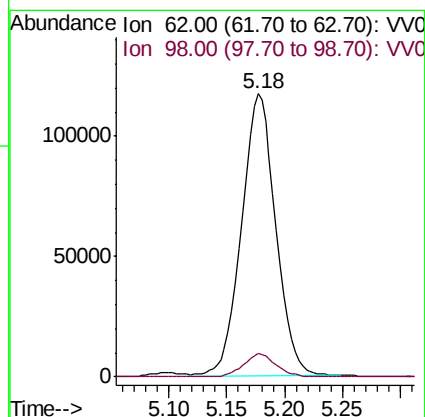
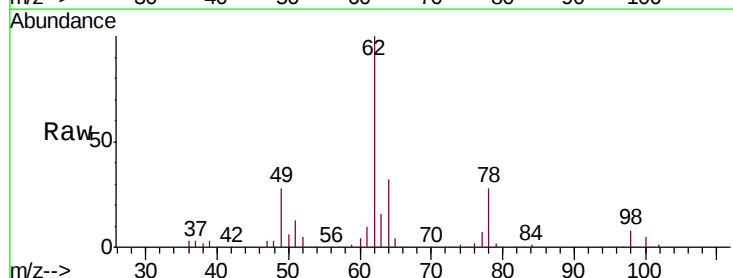
Instrument :
MSVOA_V
ClientSampled :
VSTD10065

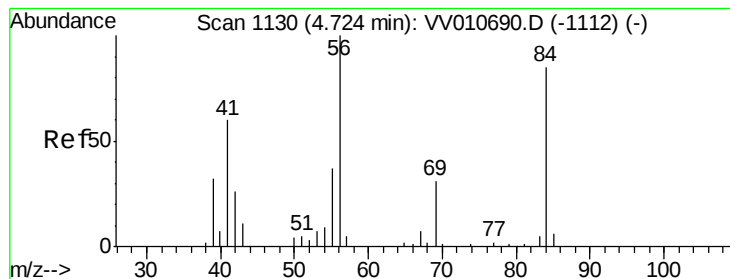
Tgt Ion: 83 Resp: 313904
Ion Ratio Lower Upper
83 100
85 65.1 44.6 82.8



#27
1,2-Dichloroethane
Concen: 101.924 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Tgt Ion: 62 Resp: 240742
Ion Ratio Lower Upper
62 100
98 8.1 6.3 9.5





#30

Cyclohexane

Concen: 102.852 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampled :

VSTD10065

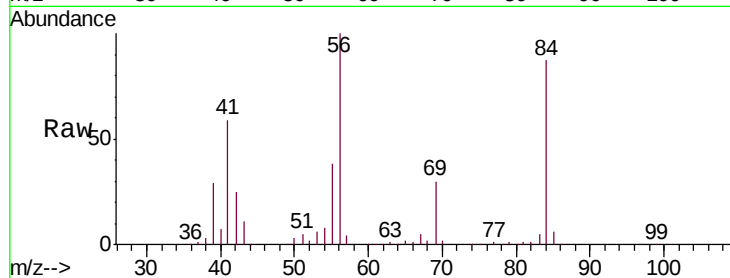
Tgt Ion: 56 Resp: 275759

Ion Ratio Lower Upper

56 100

69 29.8 24.2 36.4

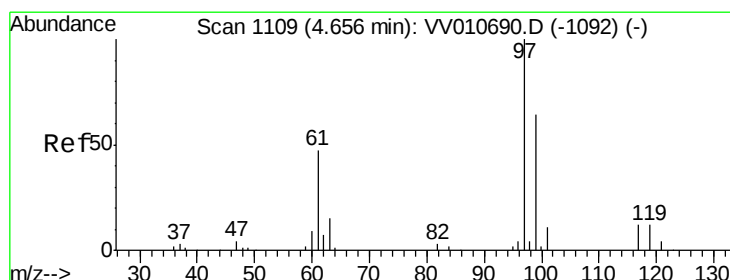
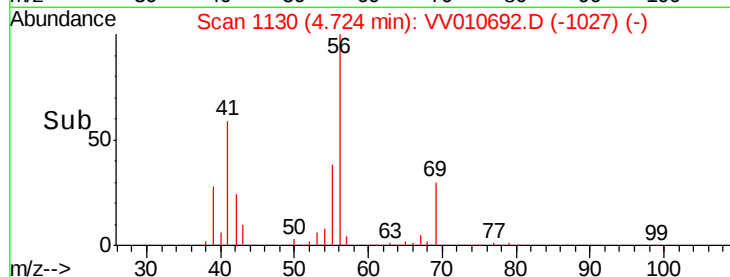
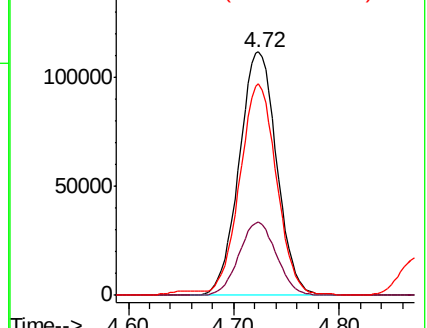
84 85.4 66.5 99.7



Abundance Ion 56.00 (55.70 to 56.70): VV010690.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV010690.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV010690.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 101.280 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

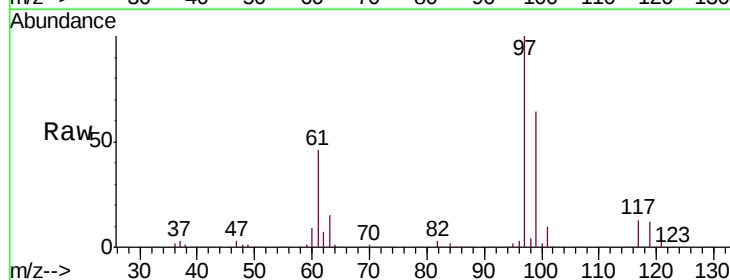
Tgt Ion: 97 Resp: 269954

Ion Ratio Lower Upper

97 100

99 64.0 50.2 75.2

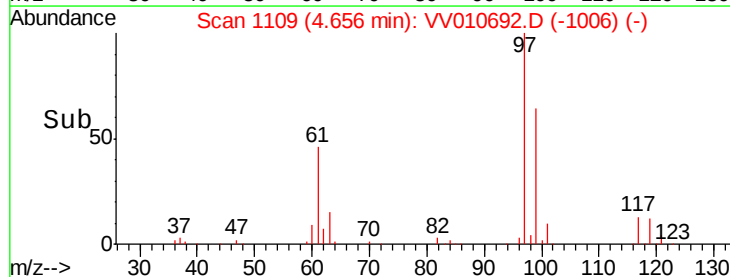
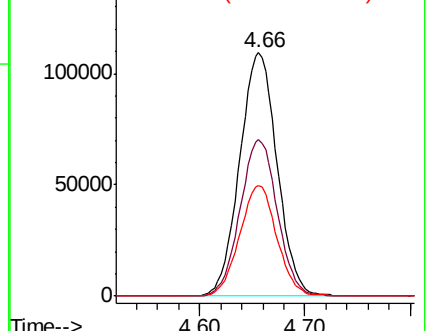
61 45.3 36.7 55.1

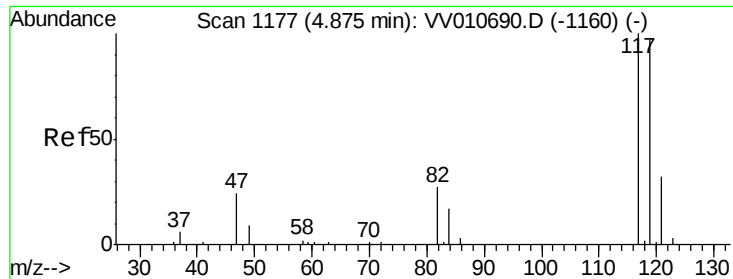


Abundance Ion 97.00 (96.70 to 97.70): VV010690.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV010690.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV010690.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 103.366 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

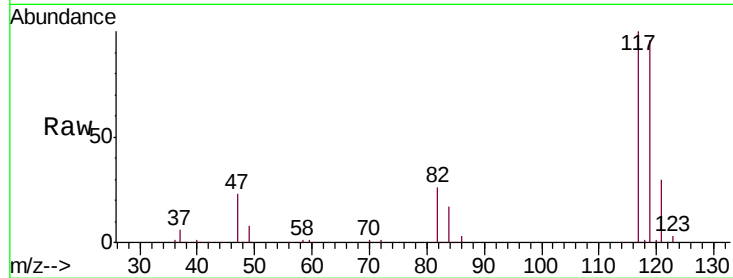
VSTD10065

Tgt Ion:117 Resp: 239991

Ion Ratio Lower Upper

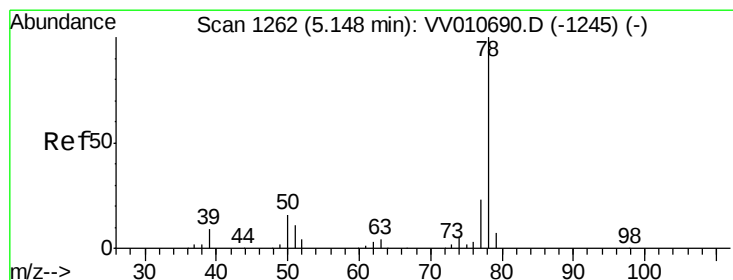
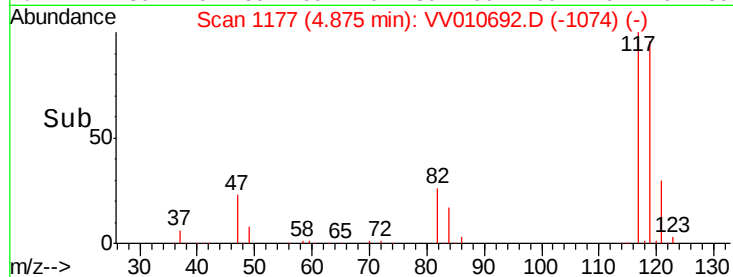
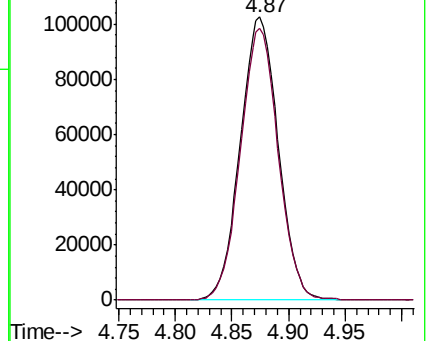
117 100

119 95.4 74.9 112.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 104.185 ug/L

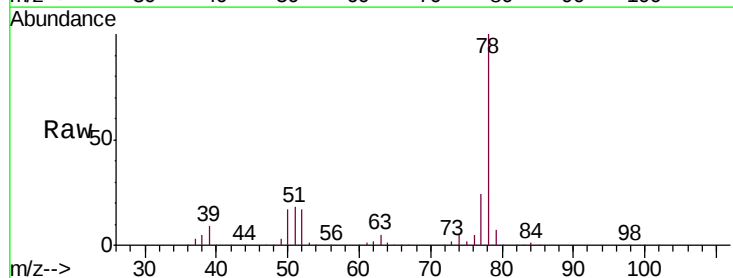
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

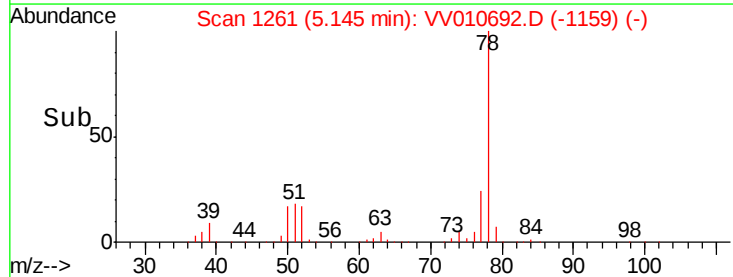
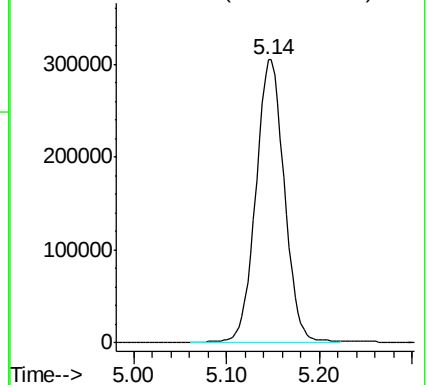
Lab File: VV010692.D

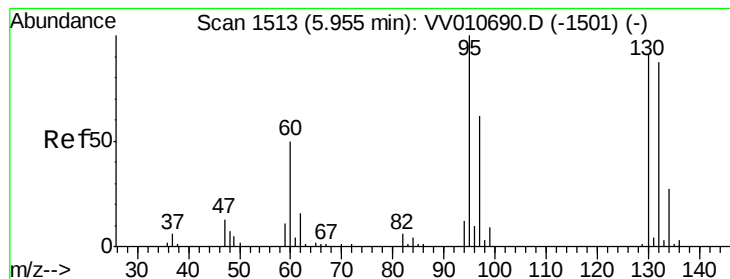
Acq: 07 May 2019 13:08

Tgt Ion: 78 Resp: 653814



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 101.897 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampled :

VSTD10065

Tgt Ion: 95 Resp: 179118

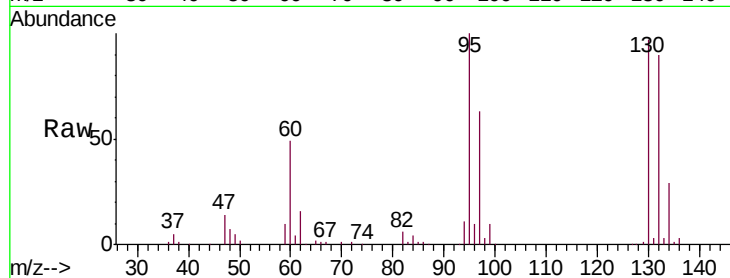
Ion Ratio Lower Upper

95 100

97 64.2 44.3 82.3

132 90.4 62.4 115.8

130 96.9 68.5 127.3

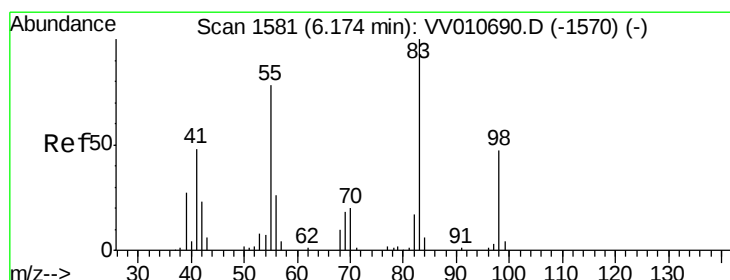
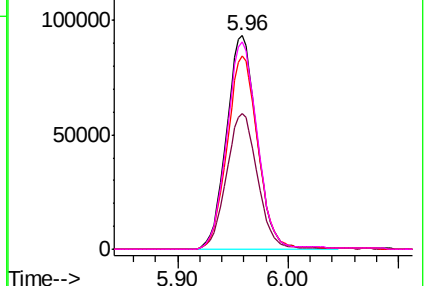
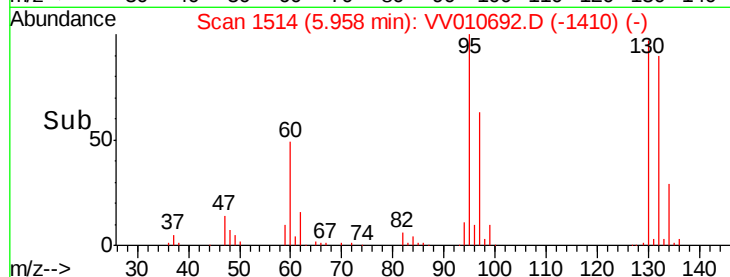


Abundance Ion 95.00 (94.70 to 95.70): VV0

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



#36

Methylcyclohexane

Concen: 105.518 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

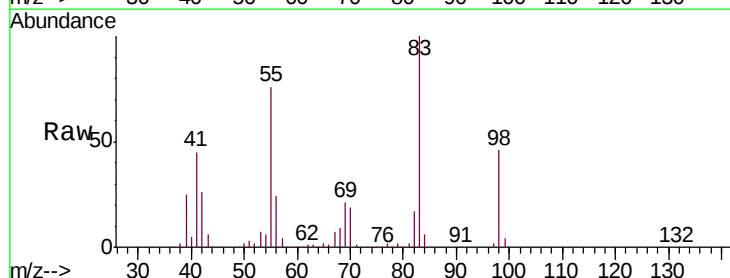
Tgt Ion: 83 Resp: 297277

Ion Ratio Lower Upper

83 100

55 75.8 64.6 96.8

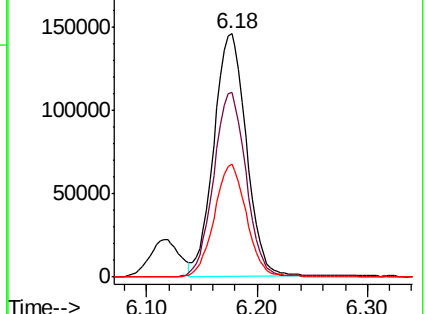
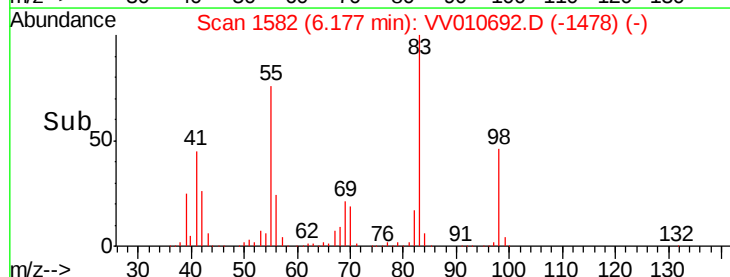
98 45.2 37.7 56.5

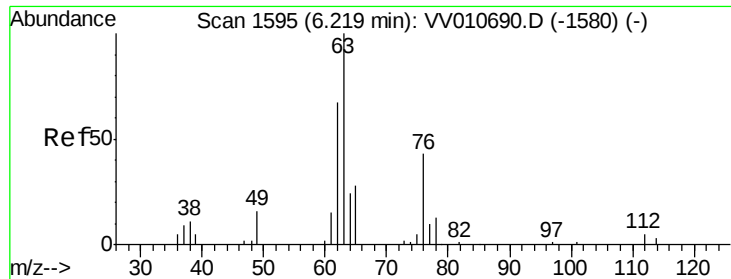


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

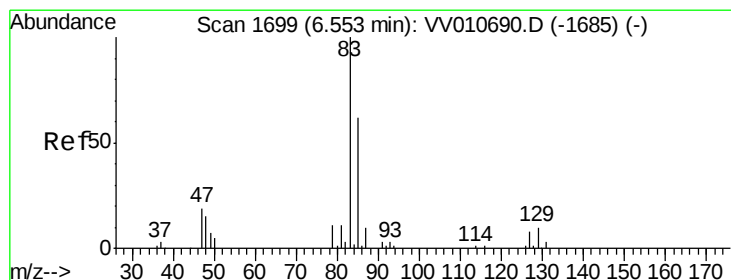
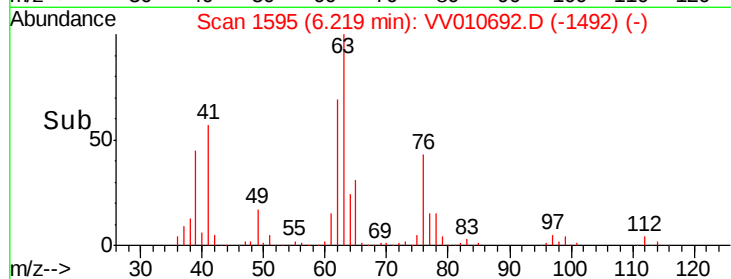
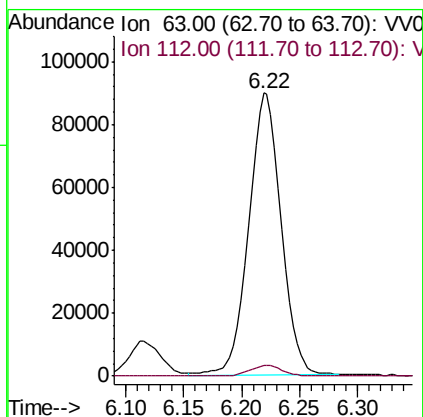
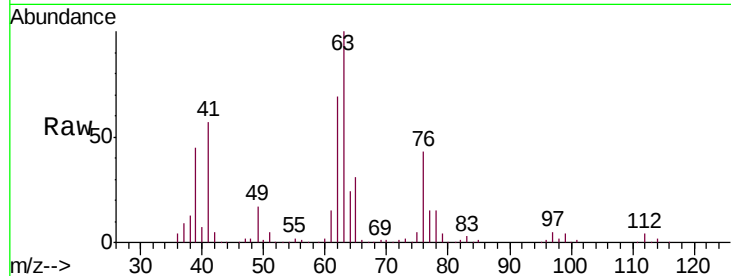




#40
 1,2-Dichloropropane
 Concen: 104.345 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

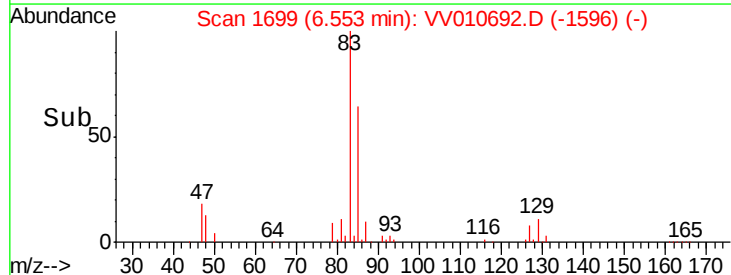
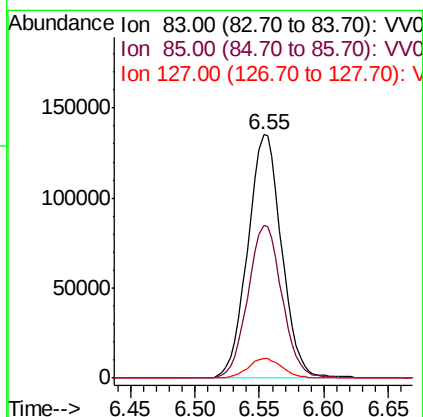
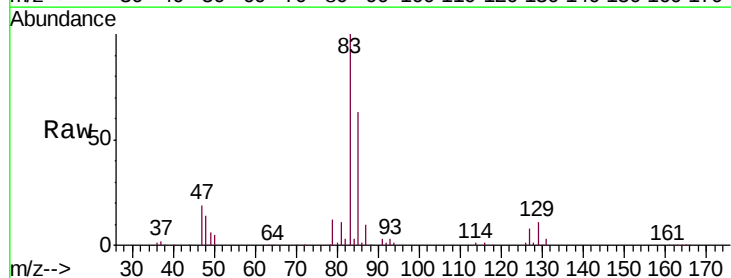
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

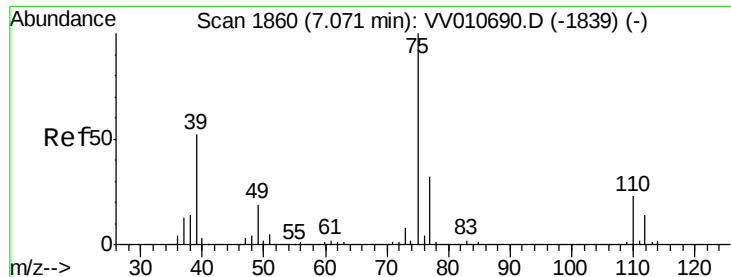
Tgt Ion: 63 Resp: 174194
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.4 5.2



#41
 Bromodichloromethane
 Concen: 108.150 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion: 83 Resp: 248079
 Ion Ratio Lower Upper
 83 100
 85 62.7 43.5 80.7
 127 8.0 6.2 9.4



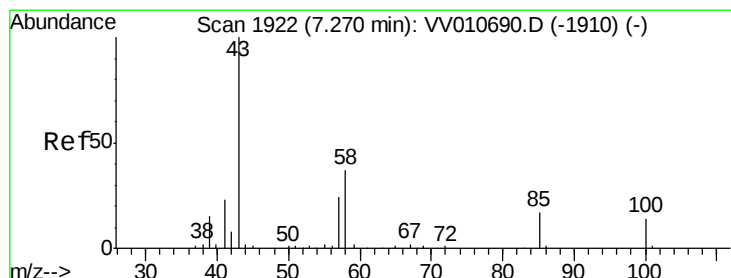
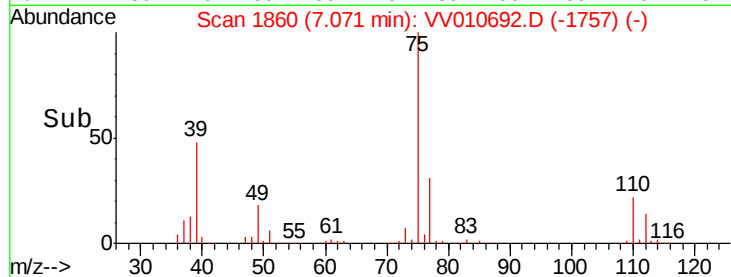
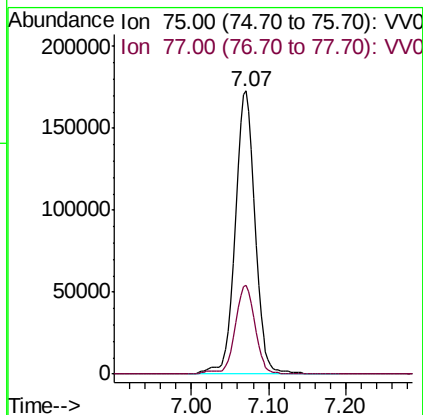
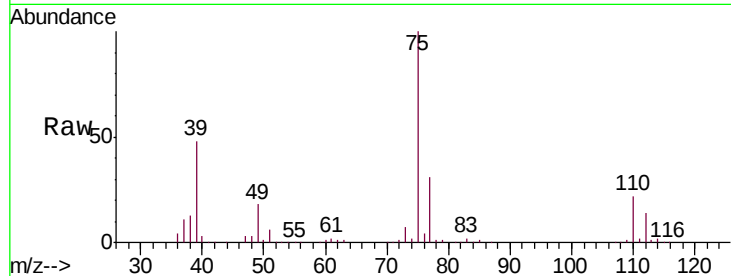


#42

cis-1,3-Dichloropropene
 Concen: 114.729 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

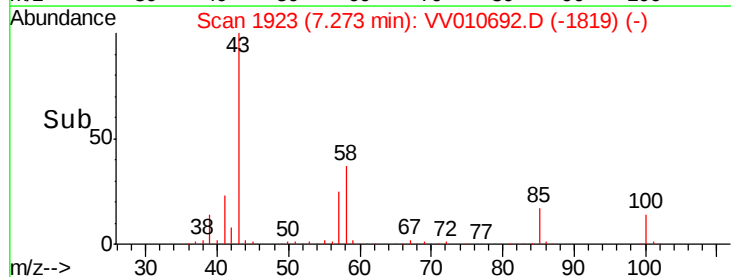
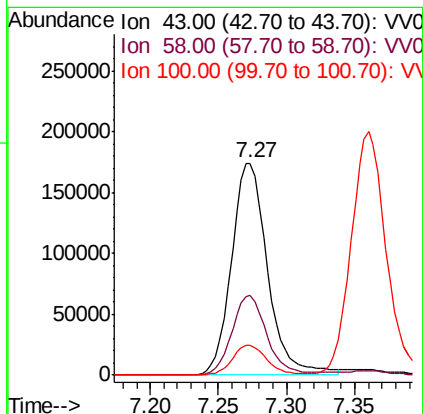
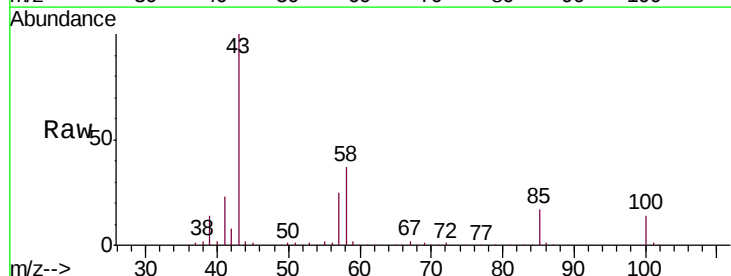
Tgt Ion: 75 Resp: 302939
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.3 41.3

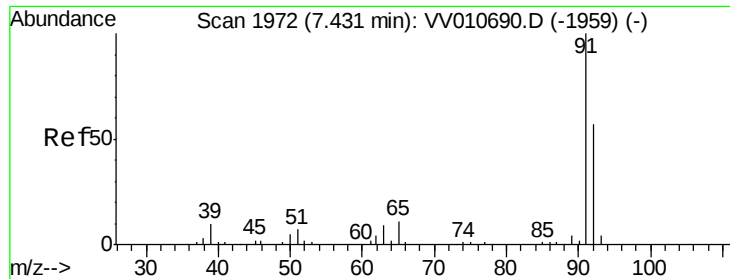


#43

4-Methyl-2-pentanone
 Concen: 228.028 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion: 43 Resp: 320433
 Ion Ratio Lower Upper
 43 100
 58 36.7 28.1 42.1
 100 13.6 11.0 16.6





#44

Toluene

Concen: 107.298 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

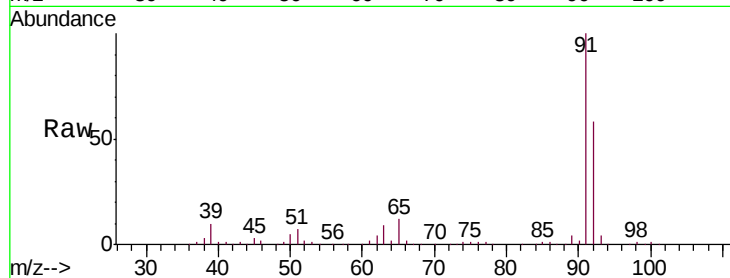
VSTD10065

Tgt Ion: 91 Resp: 764749

Ion Ratio Lower Upper

91 100

92 57.8 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV010690.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV010690.D (-1959) (-)

7.43

400000

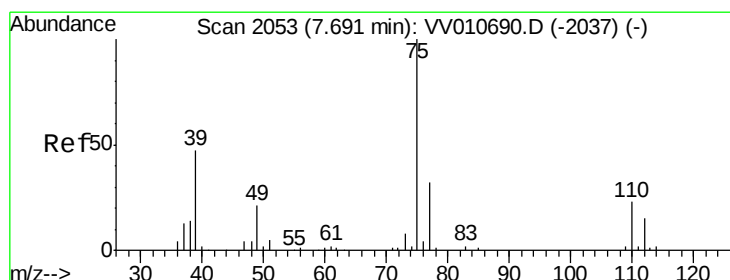
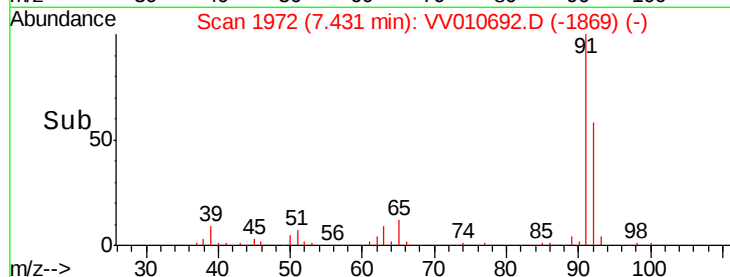
300000

200000

100000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 116.730 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010692.D

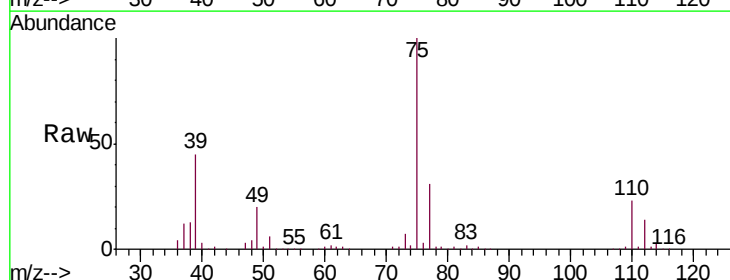
Acq: 07 May 2019 13:08

Tgt Ion: 75 Resp: 259541

Ion Ratio Lower Upper

75 100

77 31.4 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VV010690.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV010690.D (-2037) (-)

7.69

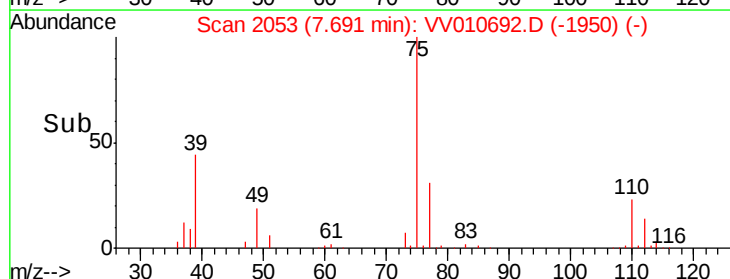
150000

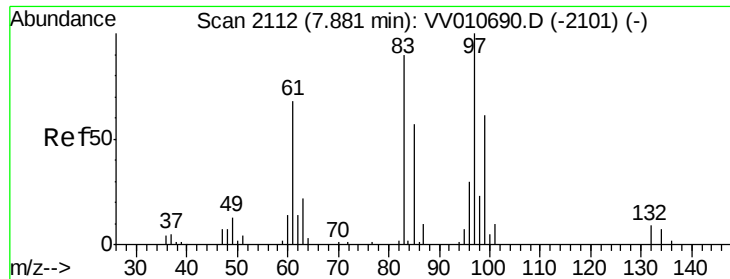
100000

50000

0

Time-->

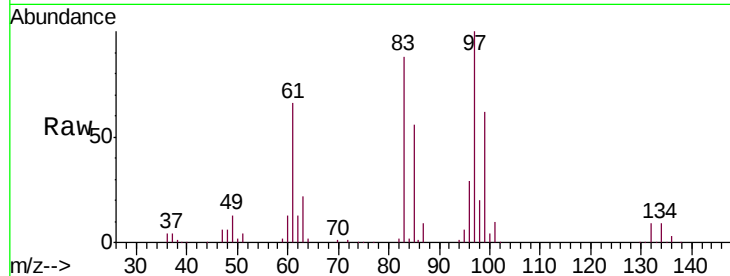




#46
 1,1,2-Trichloroethane
 Concen: 105.571 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

Tgt Ion:	97	Resp:	144785
Ion	Ratio	Lower	Upper
97	100		
83	88.2	62.8	116.6
85	56.2	40.2	74.6
99	62.1	42.6	79.0



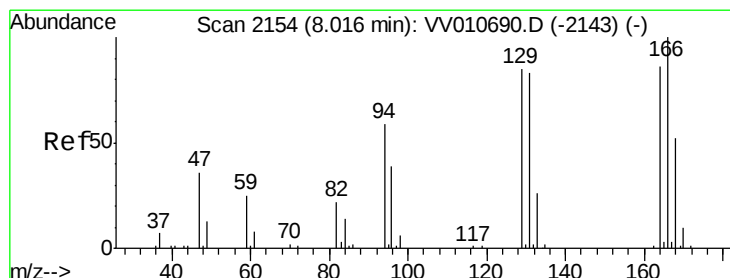
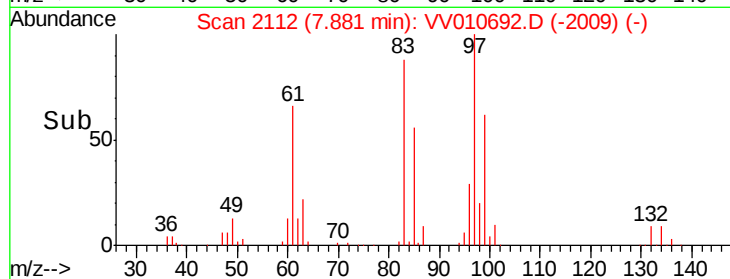
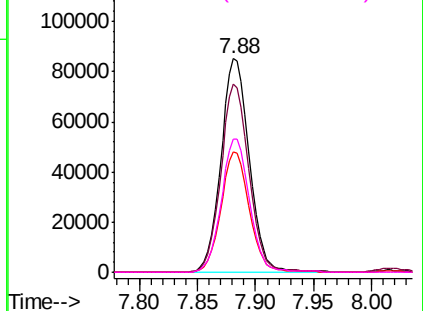
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

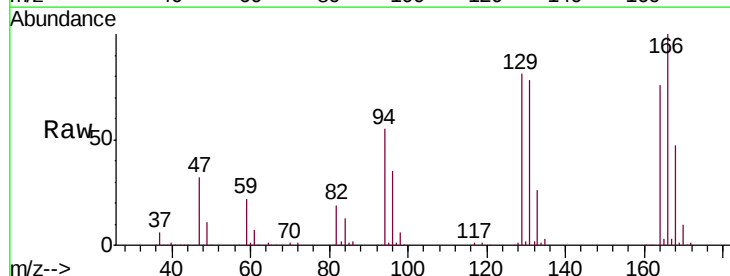
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 99.218 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion:	164	Resp:	126308
Ion	Ratio	Lower	Upper
164	100		
129	105.7	69.3	128.7
131	102.0	67.3	125.1
166	130.8	81.1	150.7



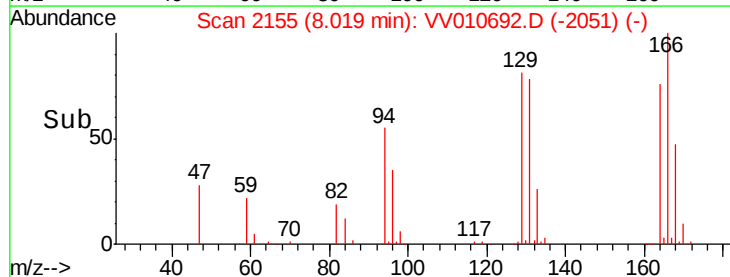
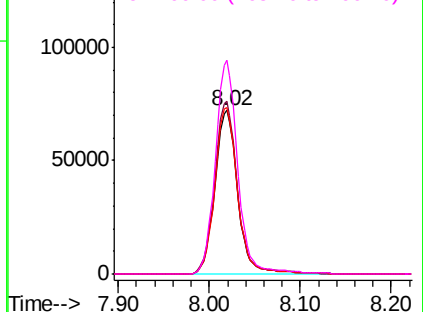
Abundance

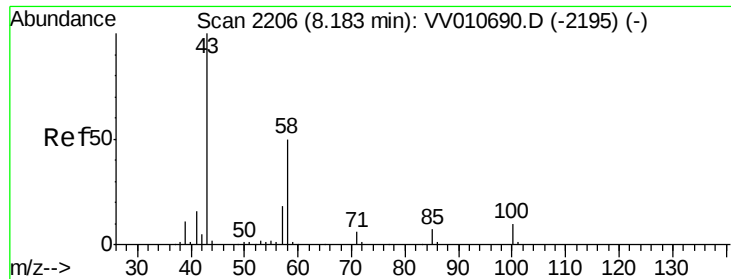
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

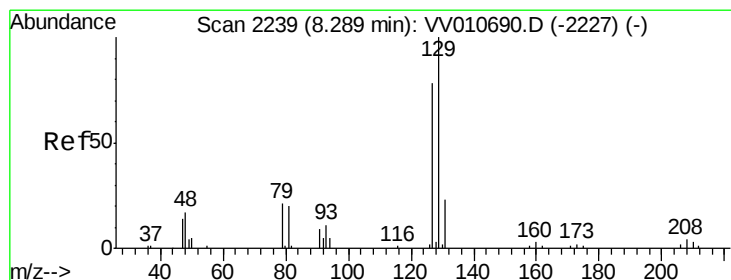
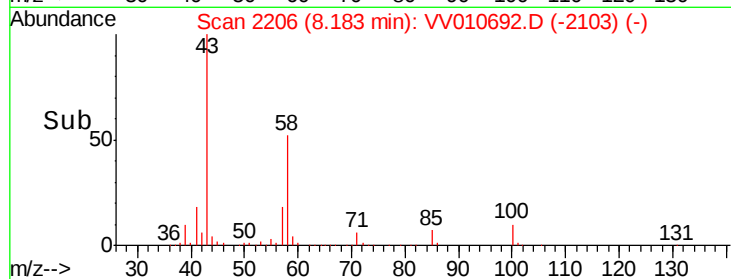
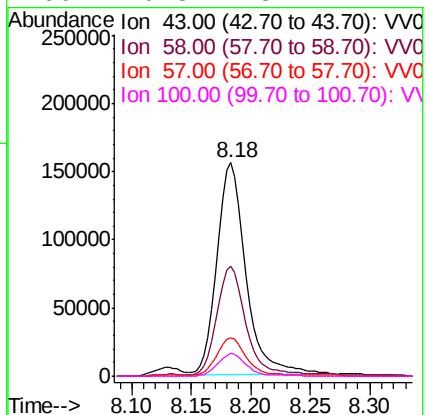
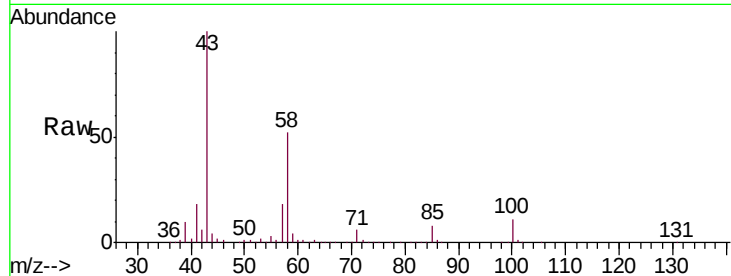




#49
2-Hexanone
Concen: 245.827 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

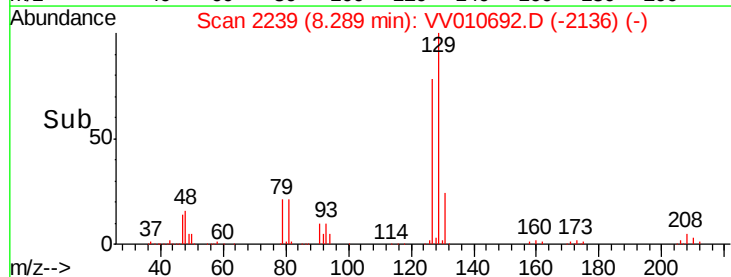
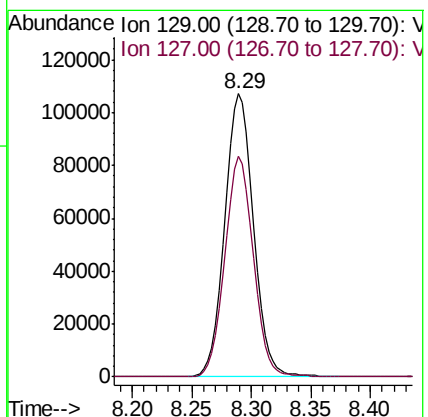
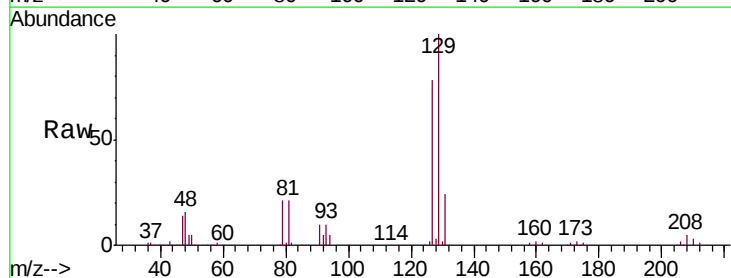
Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

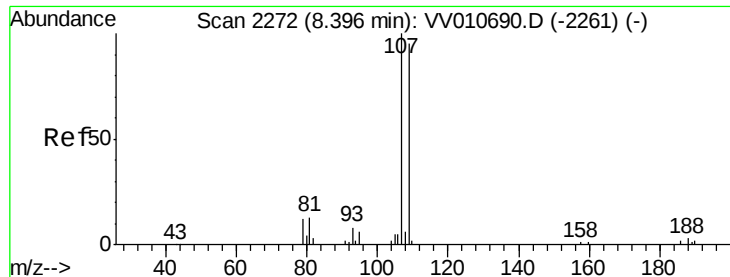
Tgt Ion: 43 Resp: 262638
Ion Ratio Lower Upper
43 100
58 51.6 39.4 59.0
57 18.1 14.2 21.4
100 10.8 8.2 12.2



#50
Dibromochloromethane
Concen: 114.045 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Tgt Ion: 129 Resp: 179859
Ion Ratio Lower Upper
129 100
127 78.1 54.5 101.1





#51

1,2-Dibromoethane

Concen: 110.050 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

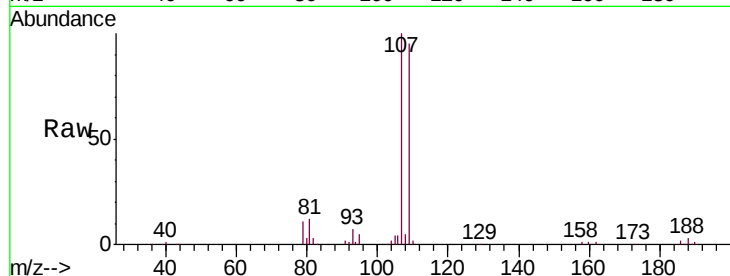
Tgt Ion:107 Resp: 145771

Ion Ratio Lower Upper

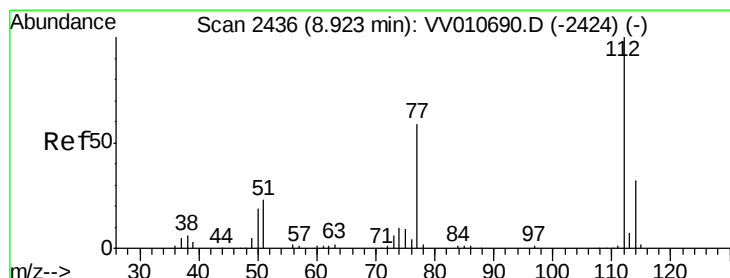
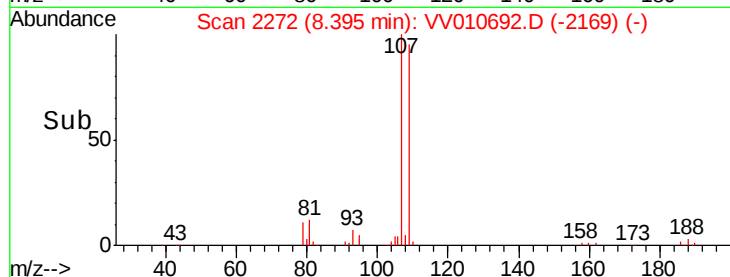
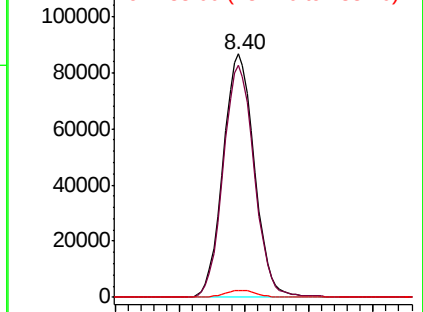
107 100

109 95.3 66.6 123.6

188 2.8 2.7 4.1



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: 105.461 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

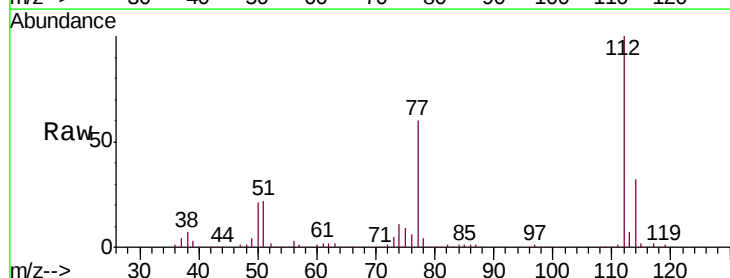
Tgt Ion:112 Resp: 491070

Ion Ratio Lower Upper

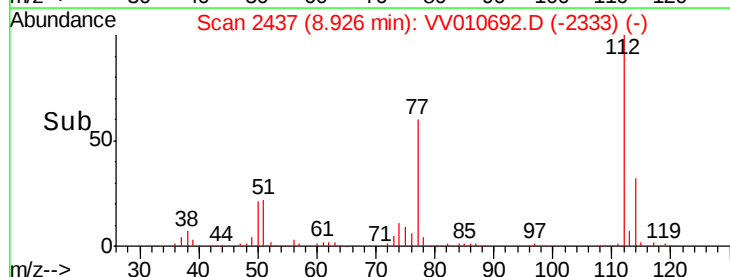
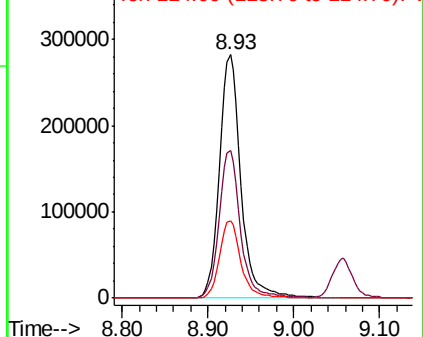
112 100

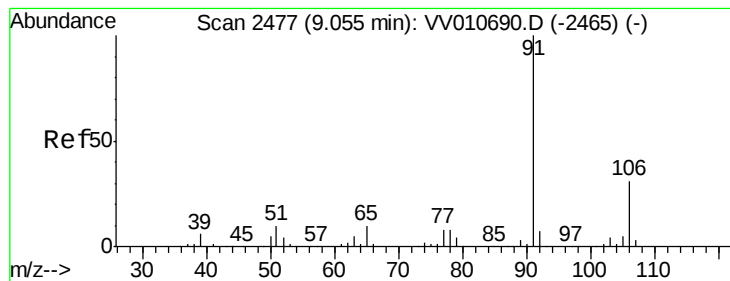
77 60.4 47.7 71.5

114 31.8 22.1 41.1



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: 107.896 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

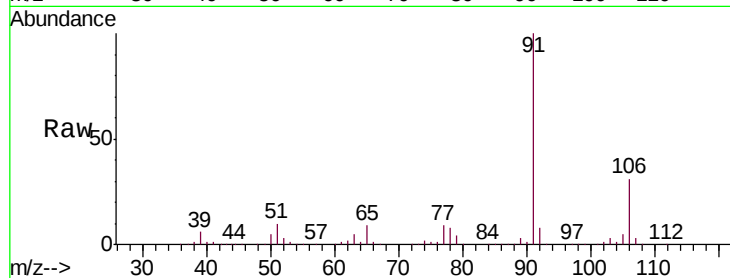
VSTD10065

Tgt Ion: 91 Resp: 891678

Ion Ratio Lower Upper

91 100

106 30.8 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV010692.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV010692.D (-2465) (-)

600000

500000

400000

300000

200000

100000

0

9.06

9.10

9.14

9.18

9.22

9.26

9.30

9.34

9.38

9.42

9.46

9.50

9.54

9.58

9.62

9.66

9.70

9.74

9.78

9.82

9.86

9.90

9.94

9.98

10.02

10.06

10.10

10.14

10.18

10.22

10.26

10.30

10.34

10.38

10.42

10.46

10.50

10.54

10.58

10.62

10.66

10.70

10.74

10.78

10.82

10.86

10.90

10.94

10.98

11.02

11.06

11.10

11.14

11.18

11.22

11.26

11.30

11.34

11.38

11.42

11.46

11.50

11.54

11.58

11.62

11.66

11.70

11.74

11.78

11.82

11.86

11.90

11.94

11.98

12.02

12.06

12.10

12.14

12.18

12.22

12.26

12.30

12.34

12.38

12.42

12.46

12.50

12.54

12.58

12.62

12.66

12.70

12.74

12.78

12.82

12.86

12.90

12.94

12.98

13.02

13.06

13.10

13.14

13.18

13.22

13.26

13.30

13.34

13.38

13.42

13.46

13.50

13.54

13.58

13.62

13.66

13.70

13.74

13.78

13.82

13.86

13.90

13.94

13.98

14.02

14.06

14.10

14.14

14.18

14.22

14.26

14.30

14.34

14.38

14.42

14.46

14.50

14.54

14.58

14.62

14.66

14.70

14.74

14.78

14.82

14.86

14.90

14.94

14.98

15.02

15.06

15.10

15.14

15.18

15.22

15.26

15.30

15.34

15.38

15.42

15.46

15.50

15.54

15.58

15.62

15.66

15.70

15.74

15.78

15.82

15.86

15.90

15.94

15.98

16.02

16.06

16.10

16.14

16.18

16.22

16.26

16.30

16.34

16.38

16.42

16.46

16.50

16.54

16.58

16.62

16.66

16.70

16.74

16.78

16.82

16.86

16.90

16.94

16.98

17.02

17.06

17.10

17.14

17.18

17.22

17.26

17.30

17.34

17.38

17.42

17.46

17.50

17.54

17.58

17.62

17.66

17.70

17.74

17.78

17.82

17.86

17.90

17.94

17.98

18.02

18.06

18.10

18.14

18.18

18.22

18.26

18.30

18.34

18.38

18.42

18.46

18.50

18.54

18.58

18.62

18.66

18.70

18.74

18.78

18.82

18.86

18.90

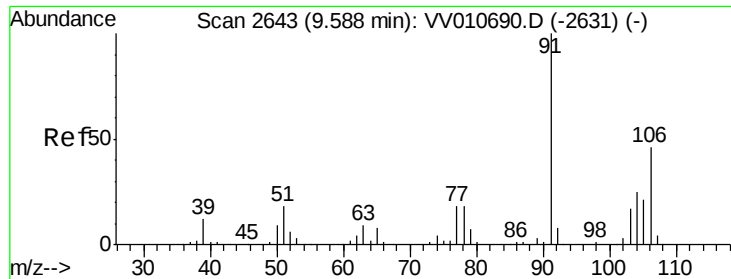
18.94

18.98

19.02

19.06

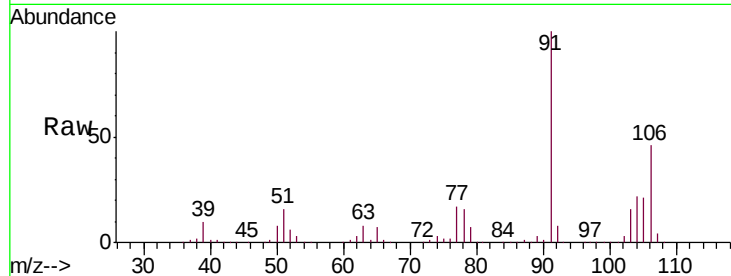
19.10



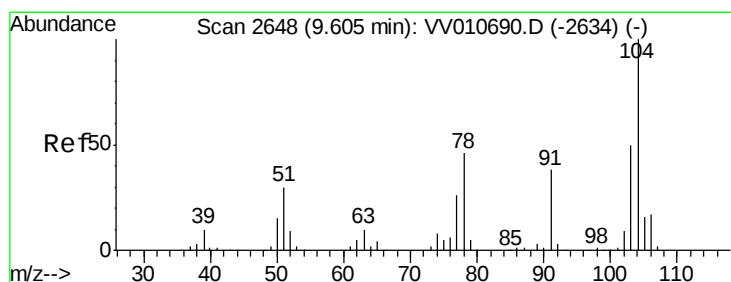
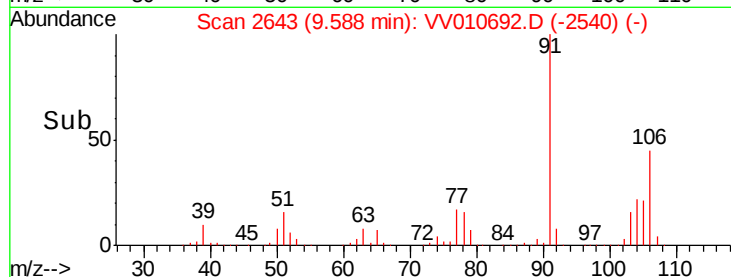
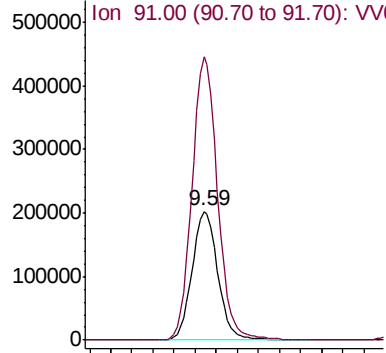
#55
o-xylene
Concen: 111.519 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD10065

Tgt Ion:106 Resp: 341523
Ion Ratio Lower Upper
106 100
91 219.7 151.0 280.4

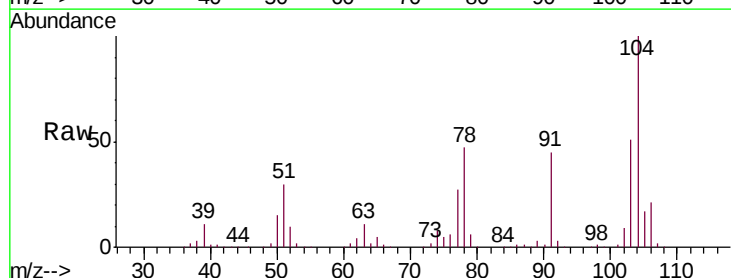


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

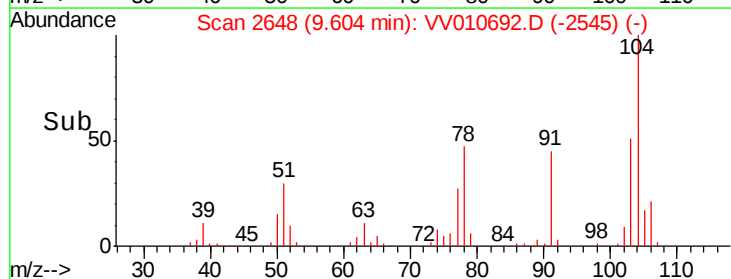
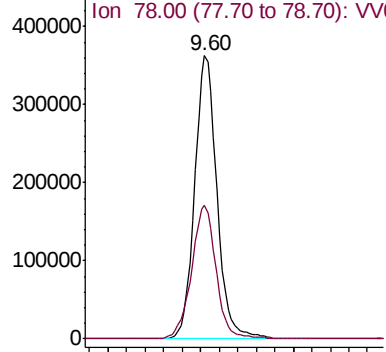


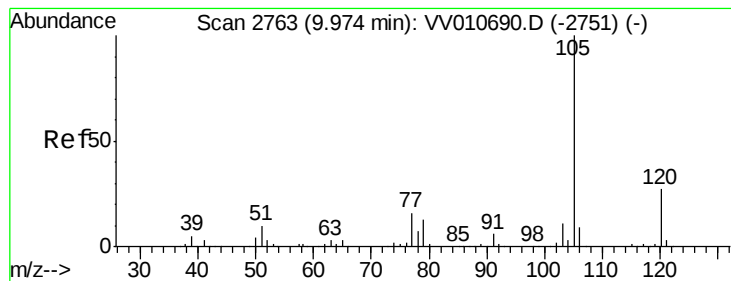
#56
Styrene
Concen: 116.733 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV010692.D
Acq: 07 May 2019 13:08

Tgt Ion:104 Resp: 604657
Ion Ratio Lower Upper
104 100
78 47.0 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 109.698 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

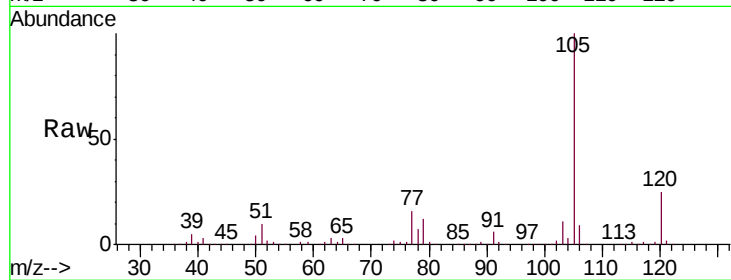
Tgt Ion:105 Resp: 896333

Ion Ratio Lower Upper

105 100

120 25.8 20.9 31.3

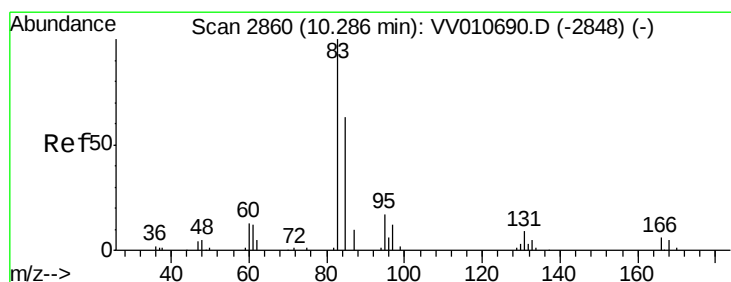
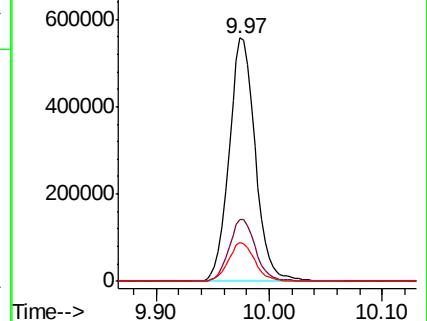
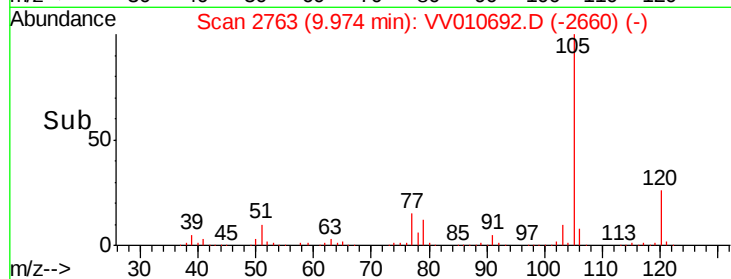
77 16.2 12.8 19.2



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: 114.979 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

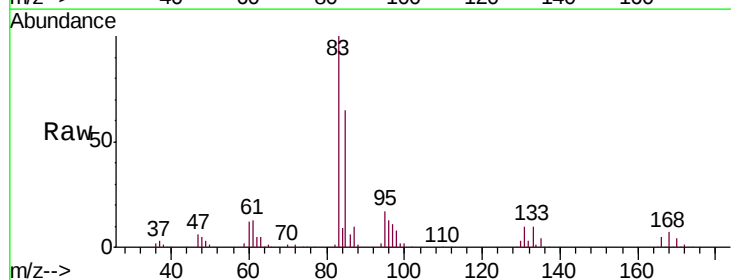
Tgt Ion: 83 Resp: 206592

Ion Ratio Lower Upper

83 100

85 64.9 44.6 82.8

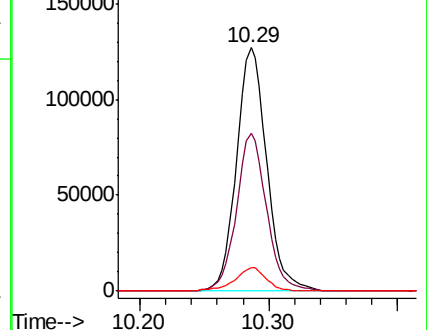
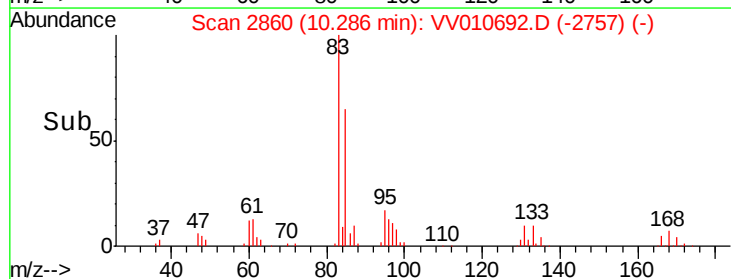
131 9.6 7.9 11.9

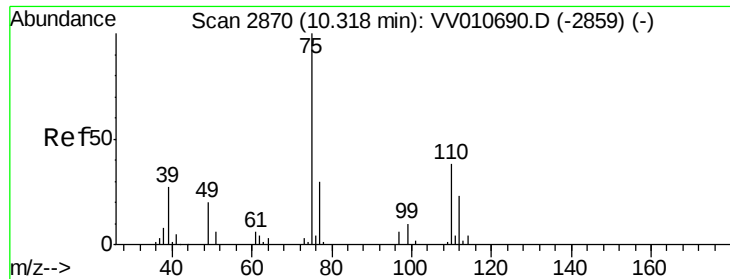


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 111.150 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

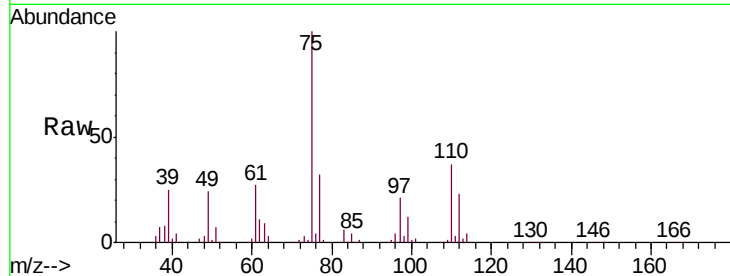
VSTD10065

Tgt Ion: 75 Resp: 155867

Ion Ratio Lower Upper

75 100

77 32.3 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VV010690.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV010690.D (-2859) (-)

10.32

100000

80000

60000

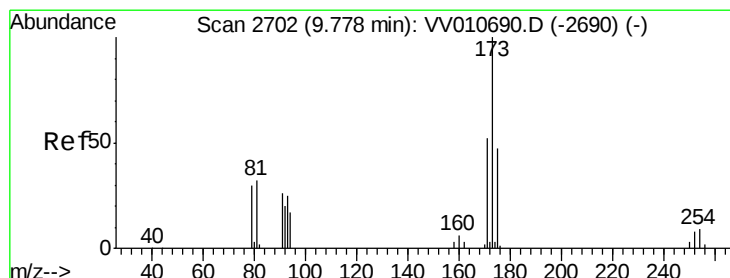
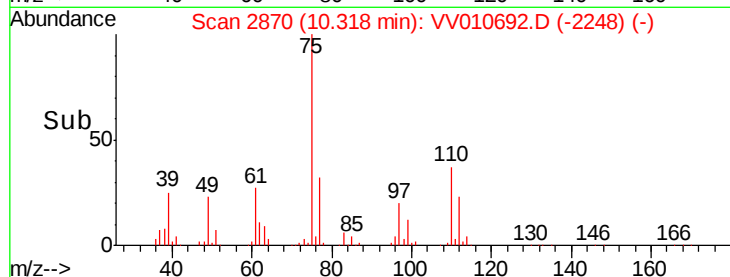
40000

20000

0

10.25 10.30 10.35 10.40

Time-->



#62

Bromoform

Concen: 117.611 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

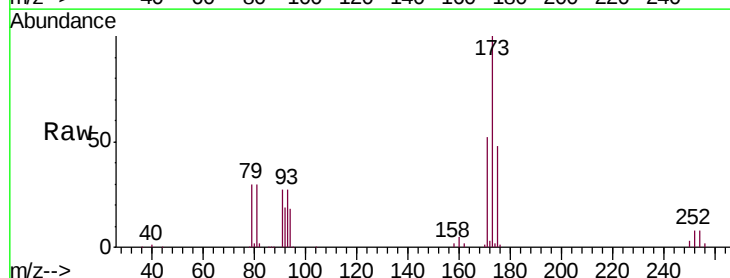
Tgt Ion: 173 Resp: 108942

Ion Ratio Lower Upper

173 100

175 47.9 38.6 58.0

254 7.6 6.5 9.7



Abundance Ion 173.00 (172.70 to 173.70): VV010690.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV010690.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010690.D (-2690) (-)

9.77

80000

60000

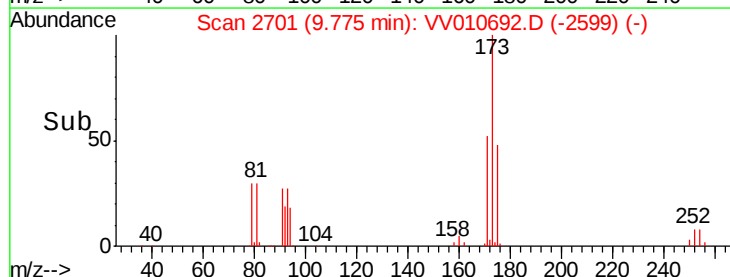
40000

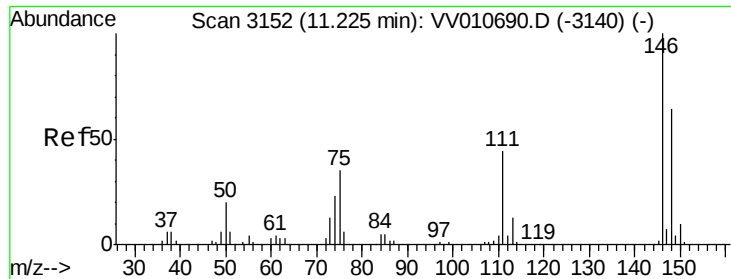
20000

0

9.70 9.75 9.80 9.85

Time-->

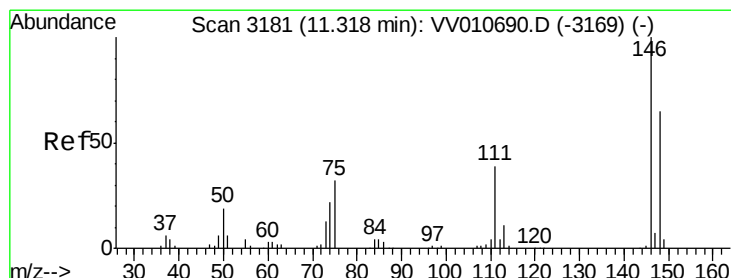
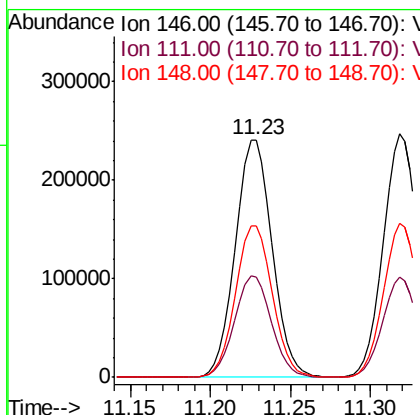
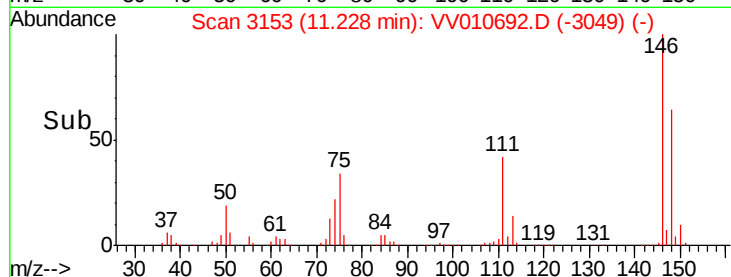
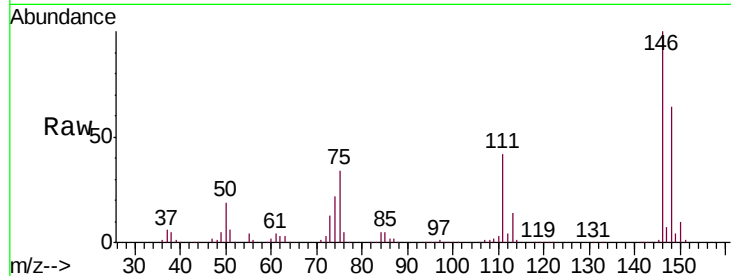




#63
 1,3-Dichlorobenzene
 Concen: 99.849 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

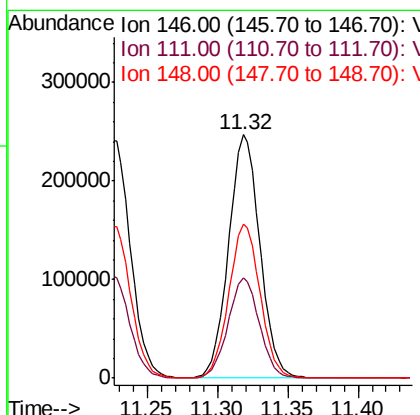
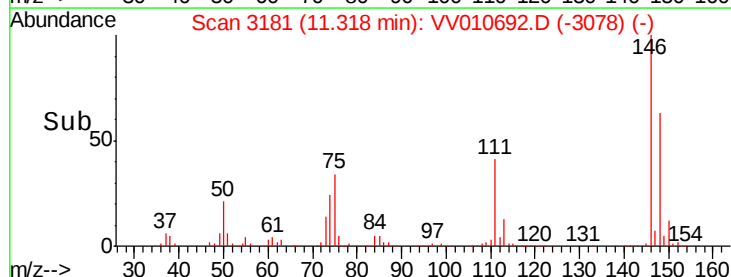
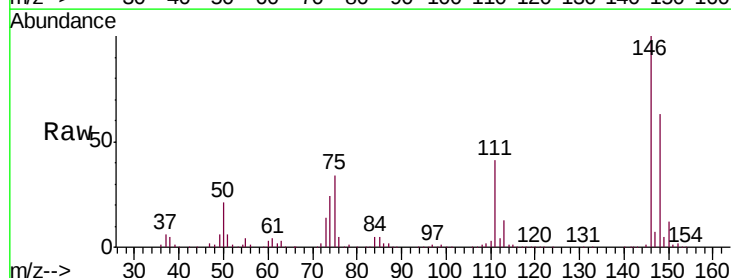
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10065

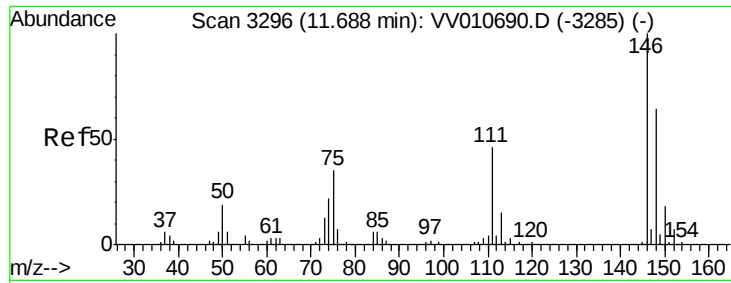
Tgt Ion:146 Resp: 378082
 Ion Ratio Lower Upper
 146 100
 111 42.3 30.6 56.8
 148 63.9 44.9 83.5



#64
 1,4-Dichlorobenzene
 Concen: 99.035 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion:146 Resp: 383052
 Ion Ratio Lower Upper
 146 100
 111 41.3 27.4 50.8
 148 63.4 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 100.833 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

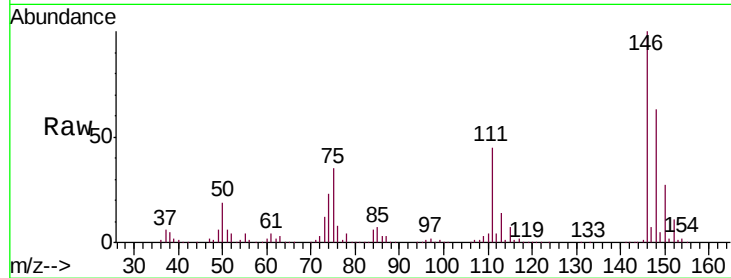
Tgt Ion:146 Resp: 370831

Ion Ratio Lower Upper

146 100

111 44.8 37.0 55.4

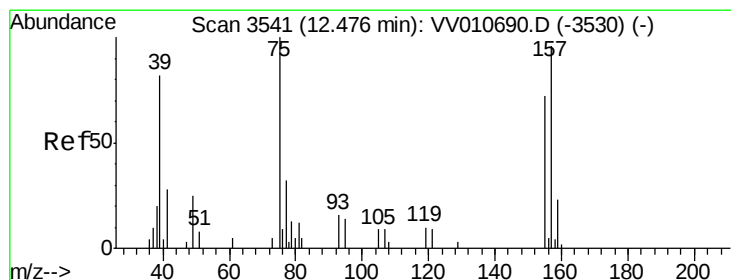
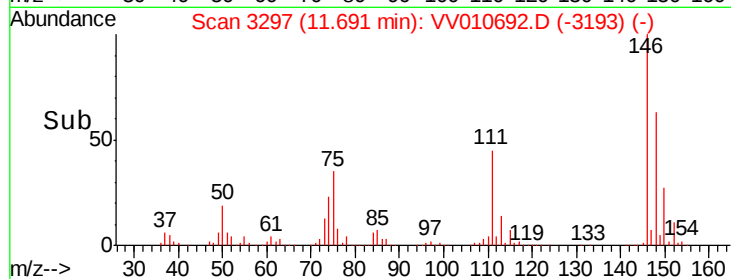
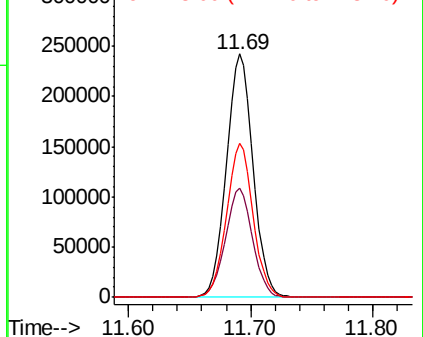
148 63.1 51.3 76.9



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: 108.811 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

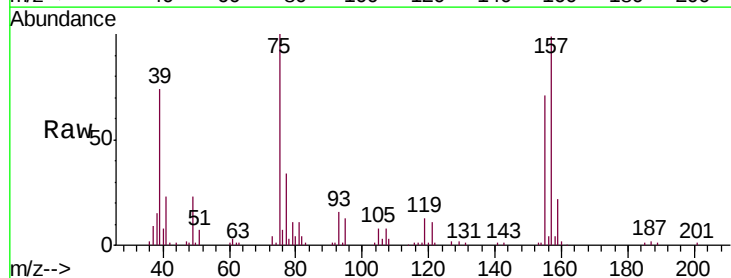
Tgt Ion: 75 Resp: 37133

Ion Ratio Lower Upper

75 100

157 98.9 76.9 115.3

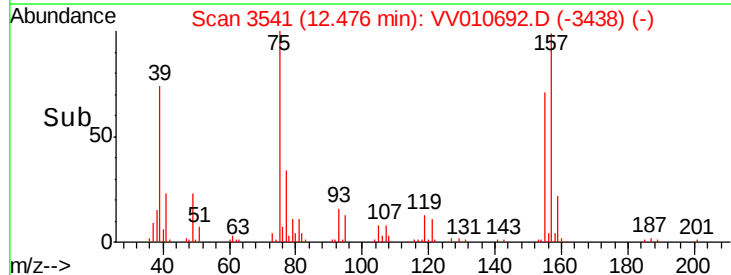
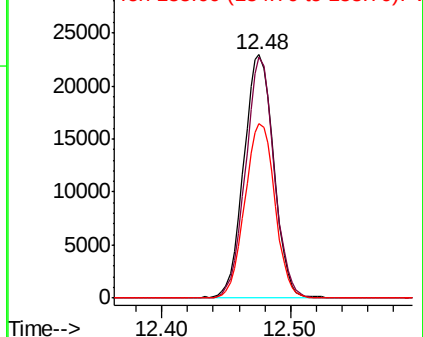
155 71.5 57.9 86.9

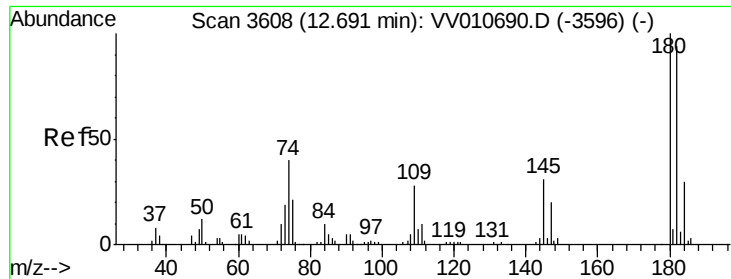


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

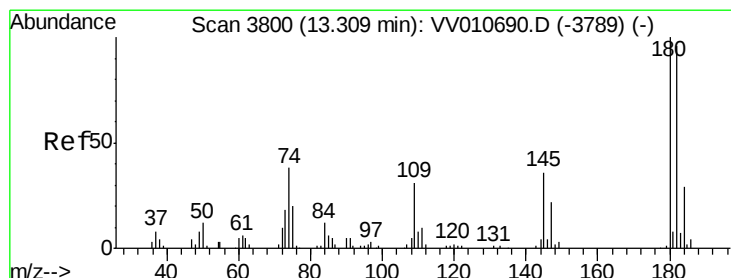
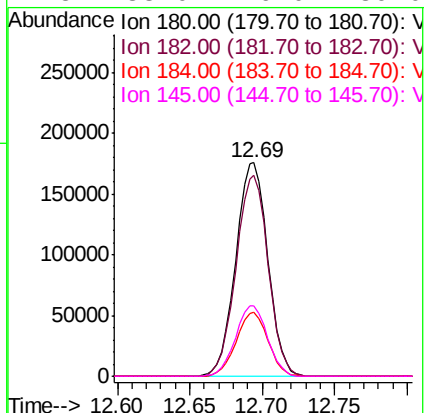
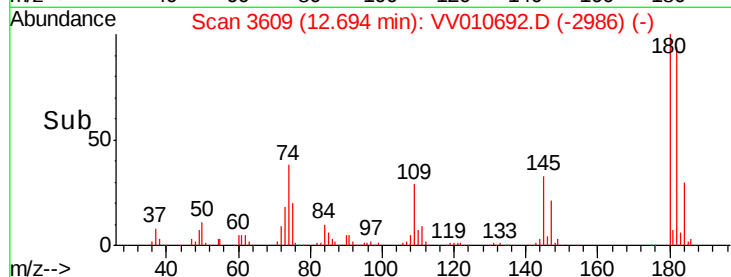
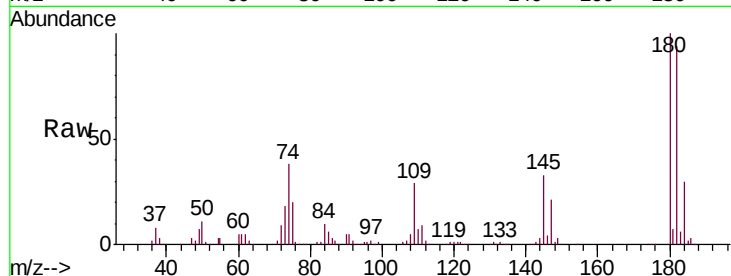




#67
 1,3,5-Trichlorobenzene
 Concen: 98.894 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

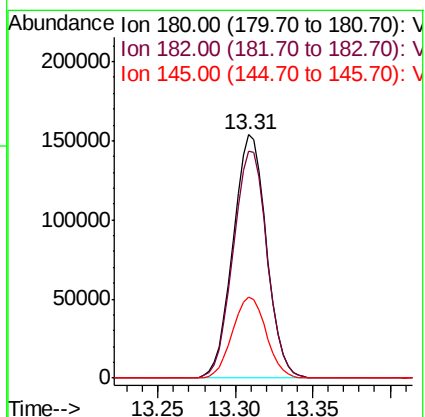
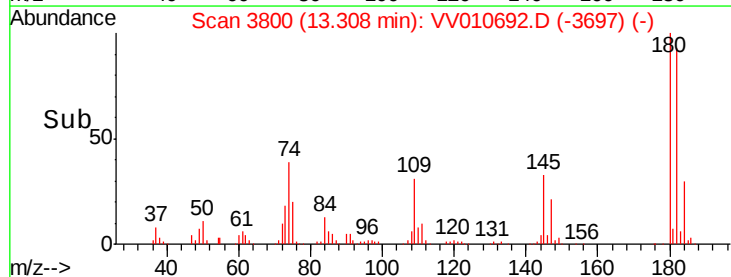
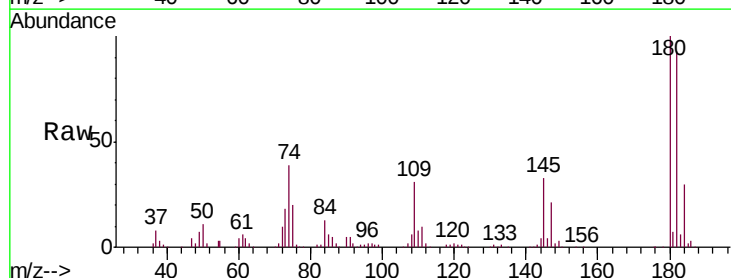
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD10065

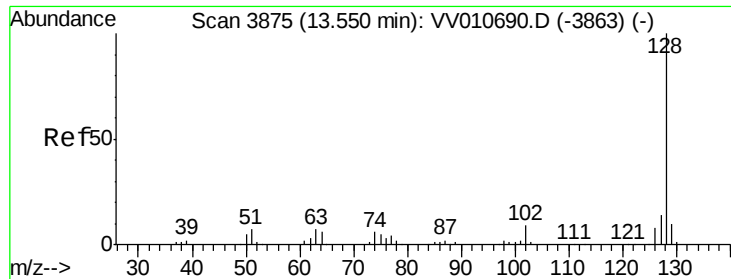
Tgt Ion:180 Resp: 269742
 Ion Ratio Lower Upper
 180 100
 182 94.2 74.7 112.1
 184 29.7 23.7 35.5
 145 33.0 26.0 39.0



#68
 1,2,4-trichlorobenzene
 Concen: 109.037 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010692.D
 Acq: 07 May 2019 13:08

Tgt Ion:180 Resp: 230119
 Ion Ratio Lower Upper
 180 100
 182 94.9 77.1 115.7
 145 33.7 28.3 42.5





#69

Naphthalene

Concen: 127.485 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD10065

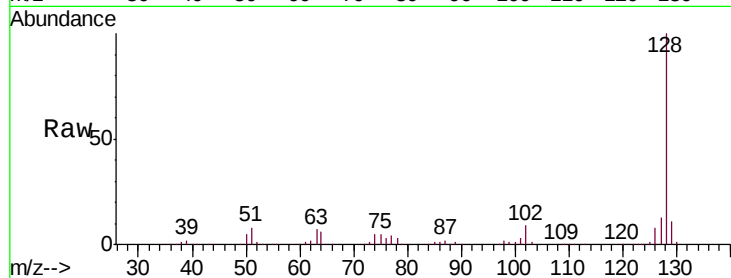
Tgt Ion:128 Resp: 575899

Ion Ratio Lower Upper

128 100

129 10.8 8.3 12.5

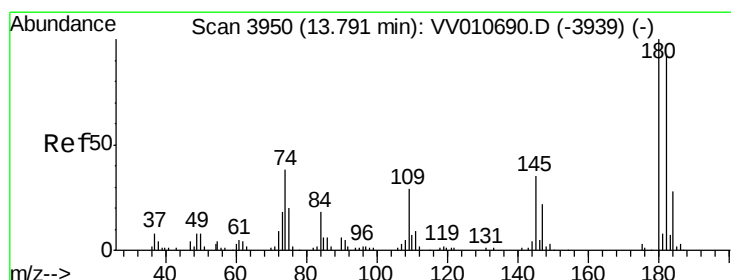
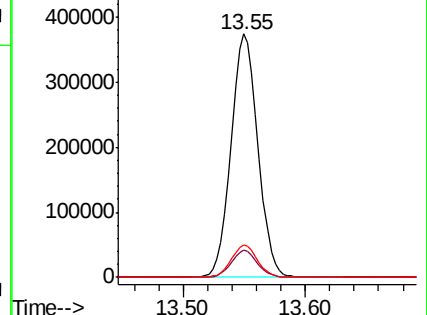
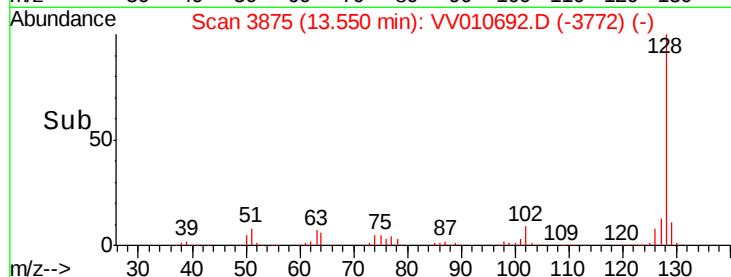
127 13.1 10.8 16.2



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: 110.956 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010692.D

Acq: 07 May 2019 13:08

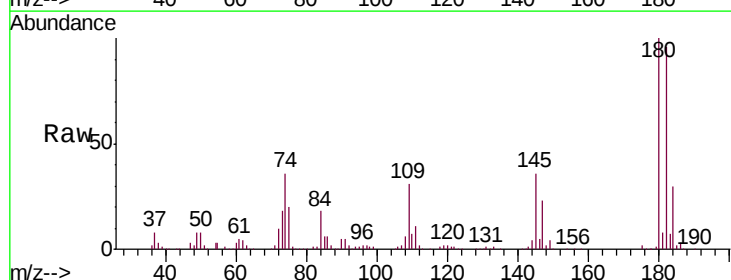
Tgt Ion:180 Resp: 219657

Ion Ratio Lower Upper

180 100

182 95.5 74.3 111.5

145 36.3 28.5 42.7



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

