

Data File : VV010107.D
Acq On : 04 Apr 2019 13:33
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Quant Time: Apr 04 16:11:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis
QLast Update : Thu Apr 04 06:01:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	272943	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	254485	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	126728	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	84143	23.03	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.12%
7) Chloroethane-d5	1.57	69	85220	18.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.12%
10) 1,1-Dichloroethene-d2	2.12	63	214175	23.24	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.96%
20) 2-Butanone-d5	3.94	46	56184	54.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.06%
24) Chloroform-d	4.40	84	176718	25.70	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	102.80%
26) 1,2-Dichloroethane-d4	5.08	65	97175	25.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.04%
29) Benzene-d6	5.09	84	349579	26.49	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	105.96%
33) 1,2-Dichloropropane-d6	6.11	67	100348	25.76	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	103.04%
37) Toluene-d8	7.36	98	338289	26.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.40%
38) trans-1,3-Dichloropropene-	7.66	79	41728	25.06	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.24%
39) 2-Hexanone-d5	8.14	63	41237	52.79	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.58%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	100999	26.29	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.16%
61) 1,2-Dichlorobenzene-d4	11.67	152	128788	26.09	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	104.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	94224	23.868 ug/L	99
3) Chloromethane	1.25	50	86083	24.470 ug/L	99
5) Vinyl chloride	1.32	62	93766	24.471 ug/L	94
6) Bromomethane	1.53	94	96846	22.343 ug/L	98
8) Chloroethane	1.59	64	72920	21.769 ug/L	97
9) Trichlorofluoromethane	1.76	101	201169	25.470 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	112026	25.506 ug/L	98
12) 1,1-Dichloroethene	2.14	96	93313	25.006 ug/L	80
13) Acetone	2.20	43	53350	51.896 ug/L	98
14) Carbon disulfide	2.31	76	191097	24.676 ug/L	99
15) Methyl Acetate	2.46	43	40946	24.892 ug/L	100
16) Methylene chloride	2.53	84	93412	19.479 ug/L	97
17) Methyl tert-butyl Ether	2.80	73	199379	24.948 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	84490	25.922 ug/L	98
19) 1,1-Dichloroethane	3.23	63	145153	26.211 ug/L	98
21) 2-Butanone	4.03	43	56875	50.518 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	92752	25.628 ug/L	97

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Quant Title : VOC Analysis
QLast Update : Thu Apr 04 06:01:11 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	45252	25.770	ug/L	92
25) Chloroform	4.42	83	163472	26.341	ug/L	100
27) 1,2-Dichloroethane	5.18	62	107705	25.442	ug/L	97
30) Cyclohexane	4.72	56	125647	27.351	ug/L	100
31) 1,1,1-Trichloroethane	4.65	97	144690	27.878	ug/L	98
32) Carbon tetrachloride	4.87	117	130452	28.121	ug/L	98
34) Benzene	5.14	78	338585	27.207	ug/L	100
35) Trichloroethene	5.96	95	96107	26.831	ug/L	99
36) Methylcyclohexane	6.17	83	148511	27.675	ug/L	99
40) 1,2-Dichloropropane	6.22	63	82307	26.176	ug/L	99
41) Bromodichloromethane	6.55	83	108824	26.612	ug/L	95
42) cis-1,3-Dichloropropene	7.07	75	122235	26.855	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	121156	52.077	ug/L	99
44) Toluene	7.43	91	372876	26.697	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	105735	27.314	ug/L	93
46) 1,1,2-Trichloroethane	7.88	97	75029	26.910	ug/L	99
47) Tetrachloroethene	8.02	164	82160	27.402	ug/L	96
49) 2-Hexanone	8.19	43	89613	53.928	ug/L	99
50) Dibromochloromethane	8.29	129	85200	27.260	ug/L	95
51) 1,2-Dibromoethane	8.40	107	72778	26.413	ug/L	99
52) Chlorobenzene	8.92	112	254894	26.755	ug/L	97
53) Ethylbenzene	9.05	91	422441	27.582	ug/L	99
54) m,p-Xylene	9.18	106	165070	27.691	ug/L	96
55) o-xylene	9.59	106	155940	27.001	ug/L	97
56) Styrene	9.60	104	266099	27.854	ug/L	99
57) Isopropylbenzene	9.97	105	436630	28.668	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	93340	26.065	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	67977	26.472	ug/L	99
62) Bromoform	9.77	173	48067	26.968	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	205280	27.597	ug/L	95
64) 1,4-Dichlorobenzene	11.32	146	209695	27.063	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	194117	26.565	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	13060	26.359	ug/L	91
67) 1,3,5-Trichlorobenzene	12.69	180	156962	28.416	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	117367	27.747	ug/L	98
69) Naphthalene	13.55	128	183999	26.146	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	108957	27.590	ug/L	96

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

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ClientSampleId :
VSTD02599

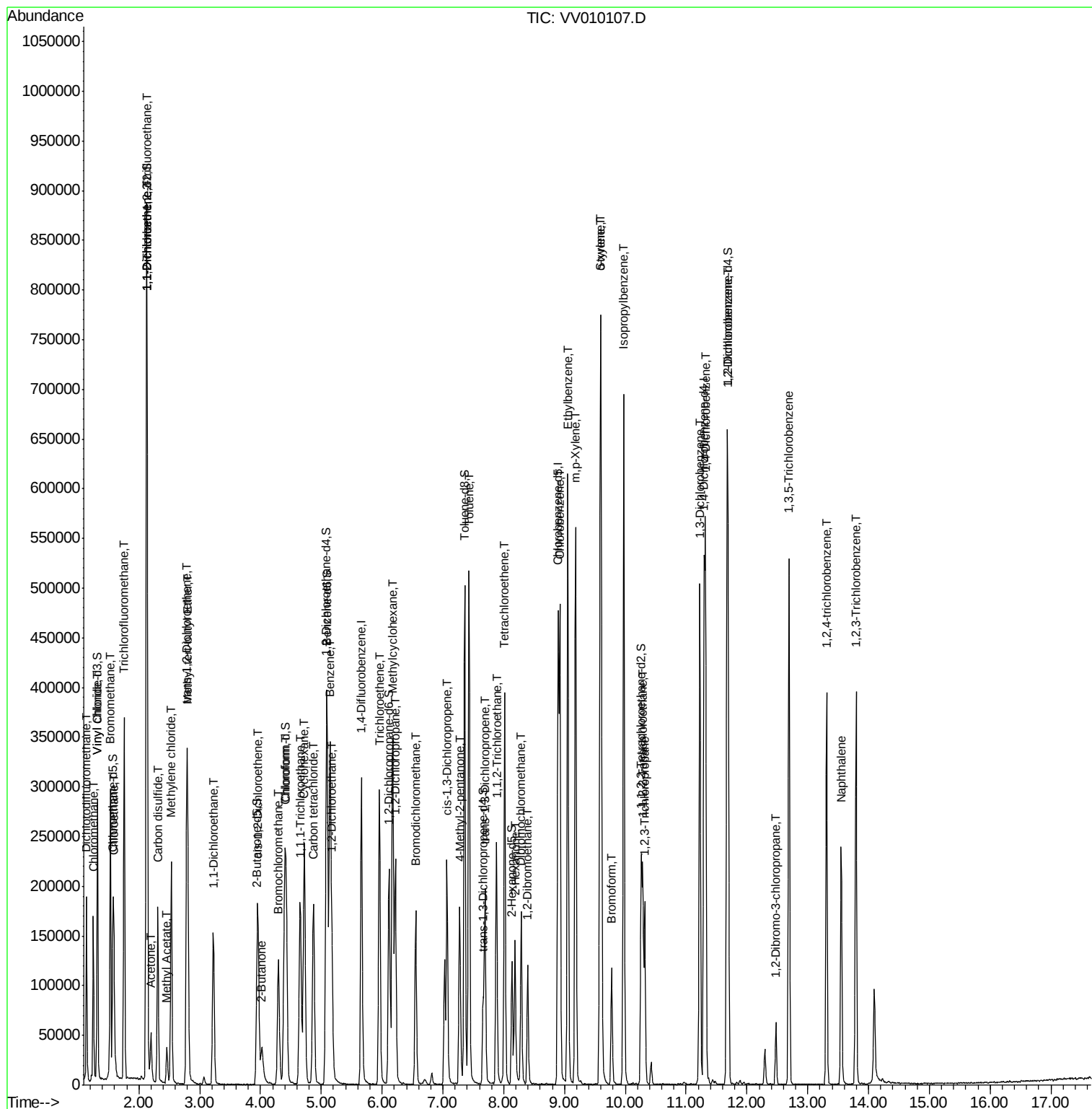
Quant Time: Apr 04 16:11:17 2019

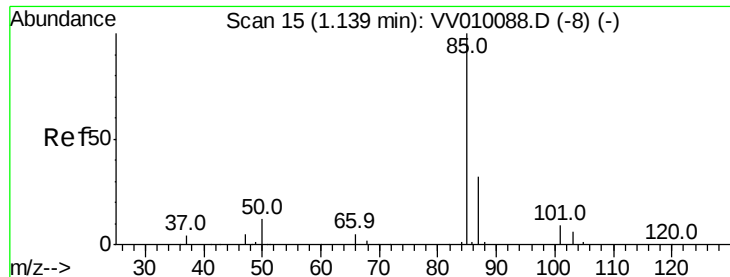
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM040219S.M

Quant Title : VOC Analysis

QLast Update : Thu Apr 04 06:01:11 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.868 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

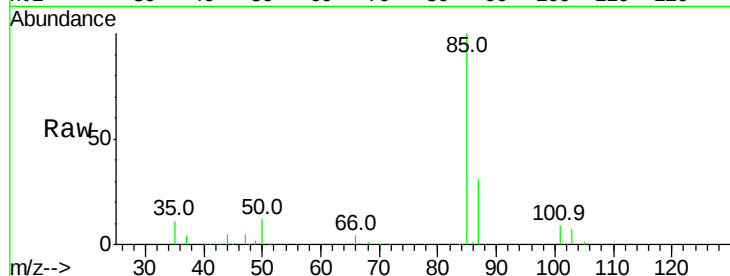
VSTD02599

Tgt Ion: 85 Resp: 94224

Ion Ratio Lower Upper

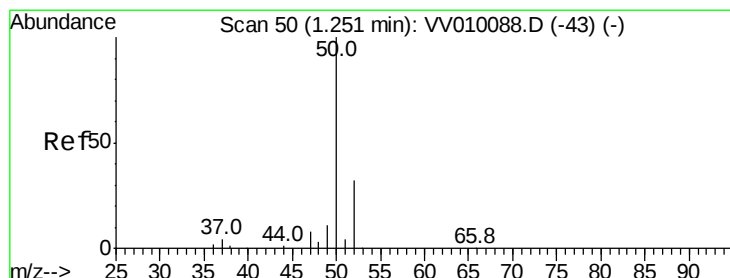
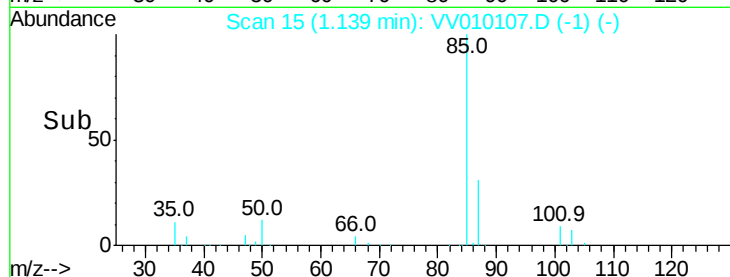
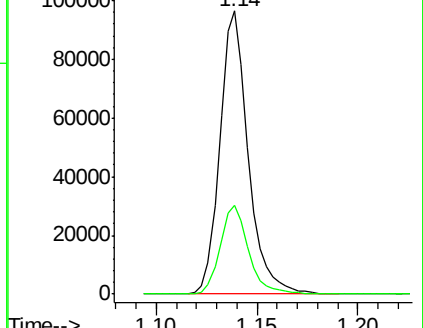
85 100

87 31.6 22.5 41.9



Abundance Ion 85.00 (84.70 to 85.70): VV010107.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV010107.D (-1) (-)



#3

Chloromethane

Concen: 24.470 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010107.D

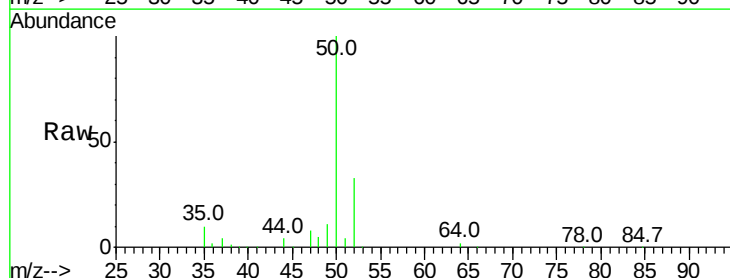
Acq: 04 Apr 2019 13:33

Tgt Ion: 50 Resp: 86083

Ion Ratio Lower Upper

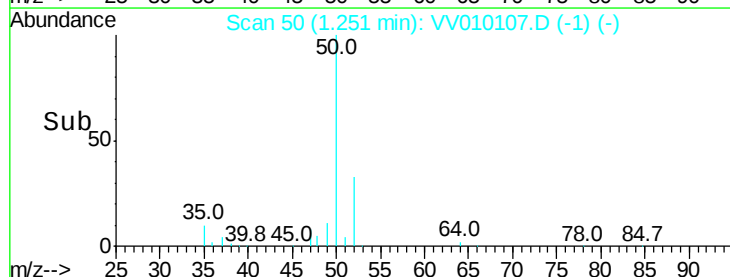
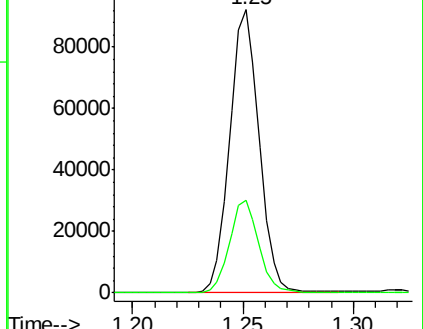
50 100

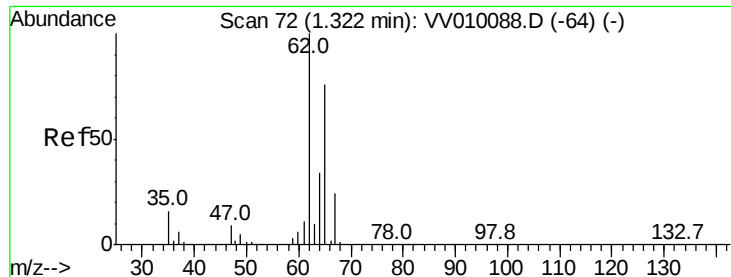
52 32.8 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VV010107.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV010107.D (-1) (-)





#5

Vinyl chloride

Concen: 24.471 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

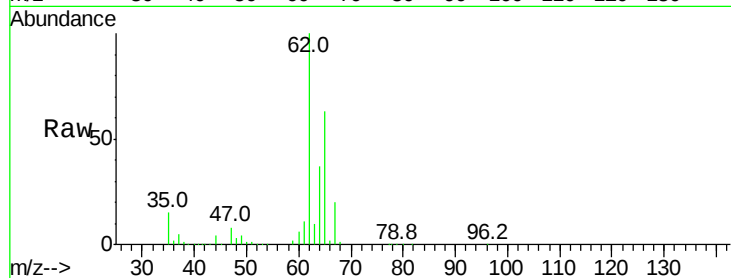
VSTD02599

Tgt Ion: 62 Resp: 93766

Ion Ratio Lower Upper

62 100

64 36.6 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

100000

80000

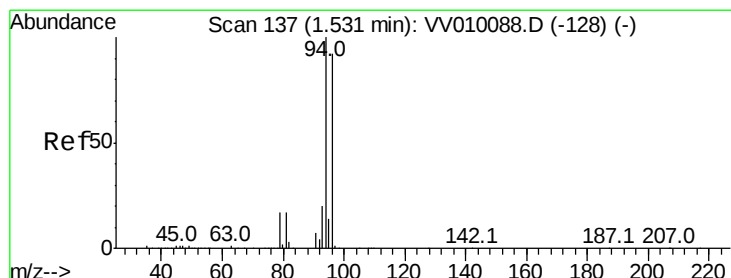
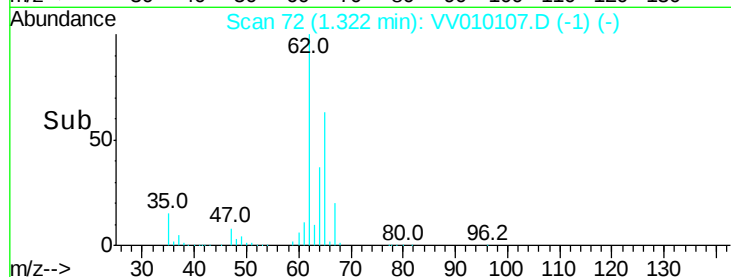
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 22.343 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV010107.D

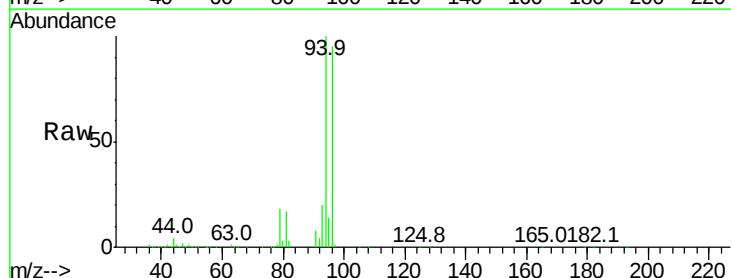
Acq: 04 Apr 2019 13:33

Tgt Ion: 94 Resp: 96846

Ion Ratio Lower Upper

94 100

96 95.8 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

100000

80000

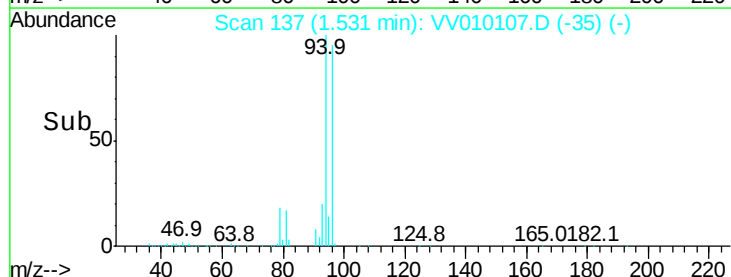
60000

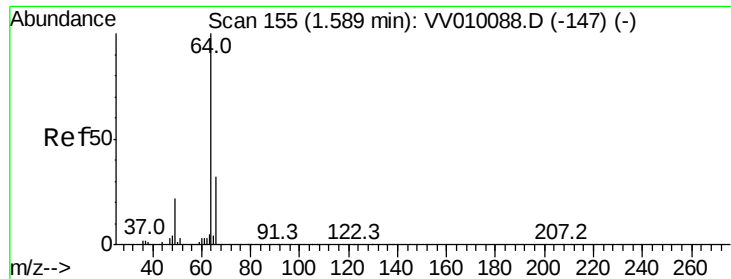
40000

20000

0

Time-->





#8

Chloroethane

Concen: 21.769 ug/L

RT: 1.59 min Scan# 155

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

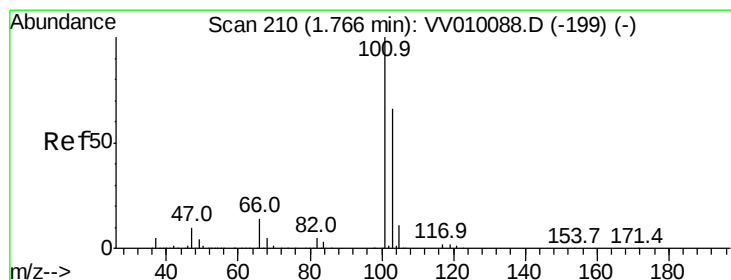
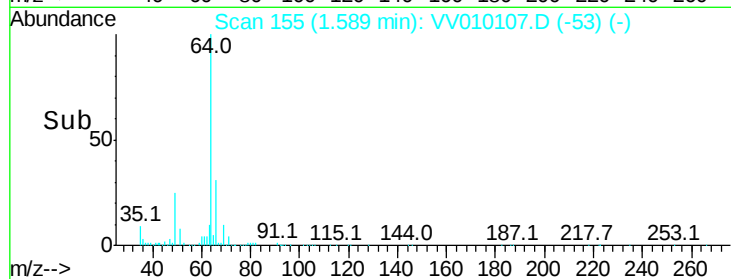
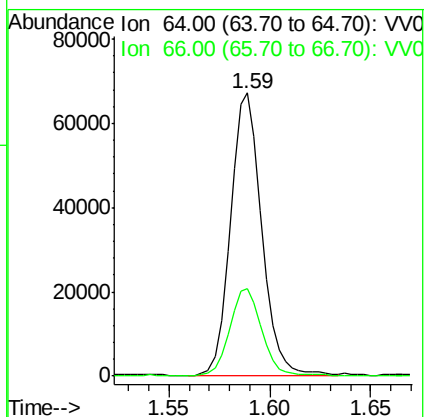
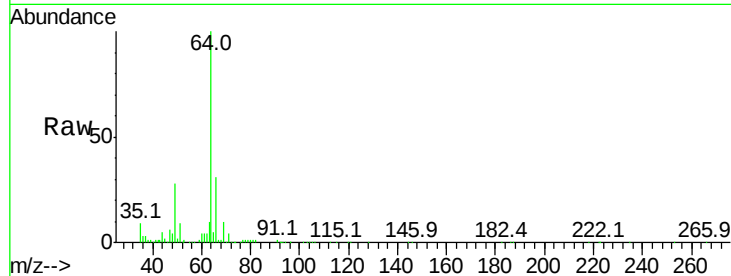
VSTD02599

Tgt Ion: 64 Resp: 72920

Ion Ratio Lower Upper

64 100

66 31.0 22.9 42.5



#9

Trichlorofluoromethane

Concen: 25.470 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.01 min

Lab File: VV010107.D

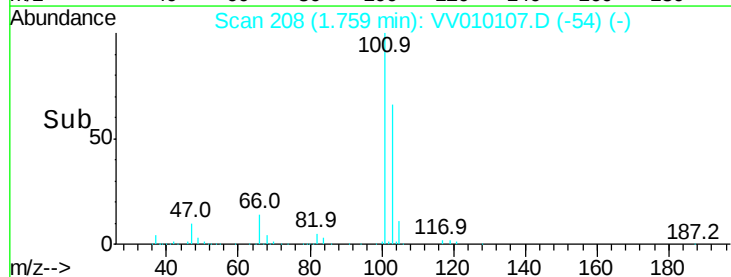
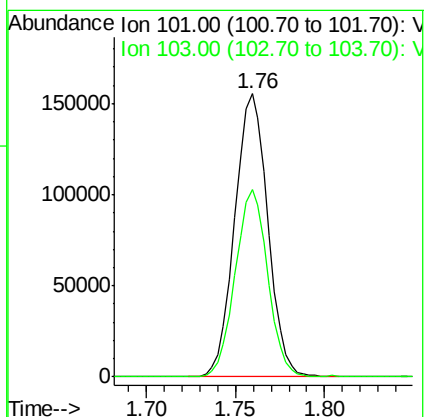
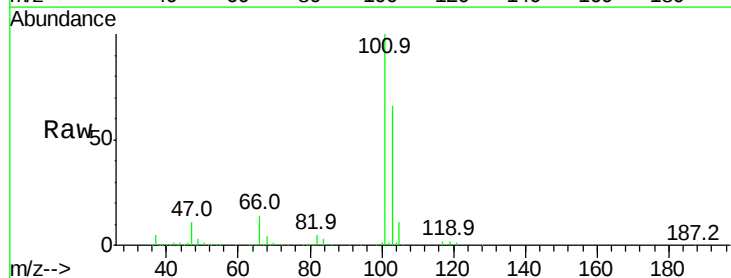
Acq: 04 Apr 2019 13:33

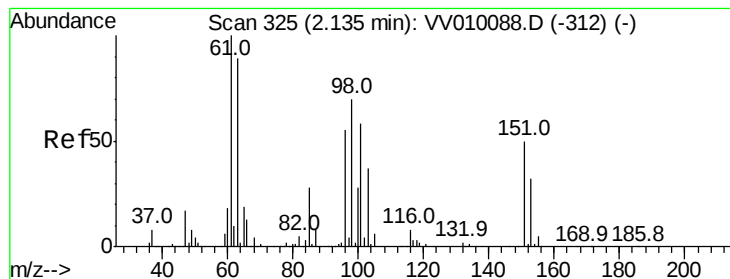
Tgt Ion: 101 Resp: 201169

Ion Ratio Lower Upper

101 100

103 65.0 46.1 85.5





#11

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

Concen: 25.506 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

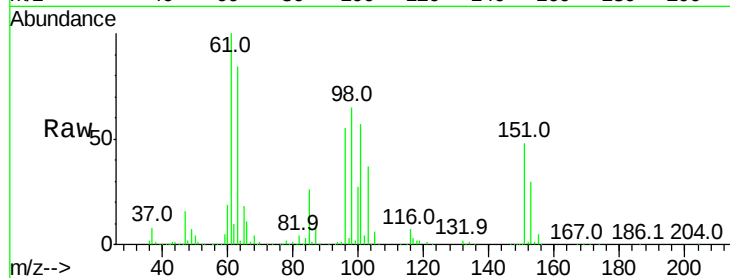
Tgt Ion: 101 Resp: 112026

Ion Ratio Lower Upper

101 100

85 47.1 37.3 55.9

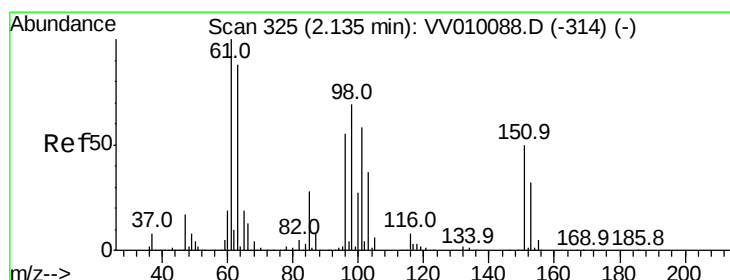
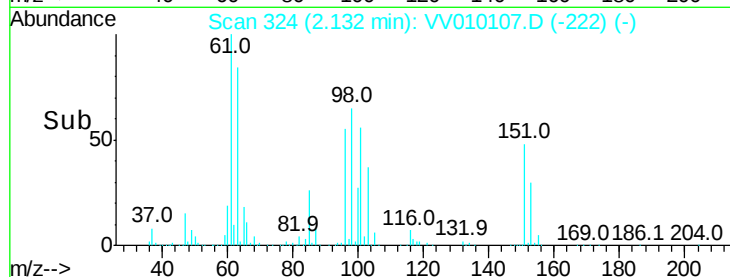
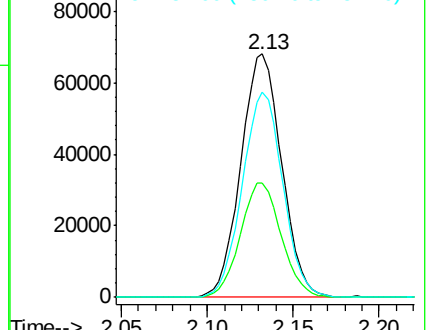
151 83.6 65.4 98.2



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: 25.006 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

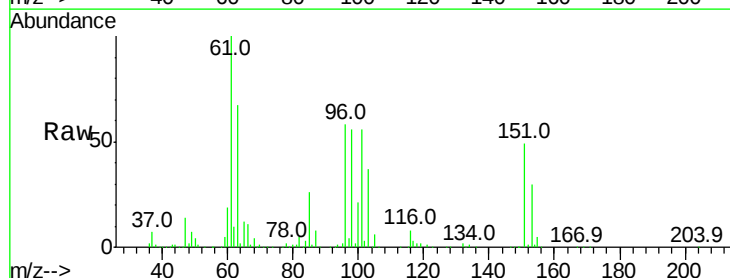
Tgt Ion: 96 Resp: 93313

Ion Ratio Lower Upper

96 100

61 171.8 127.8 237.4

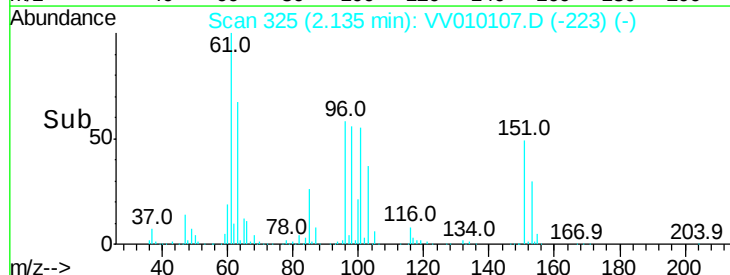
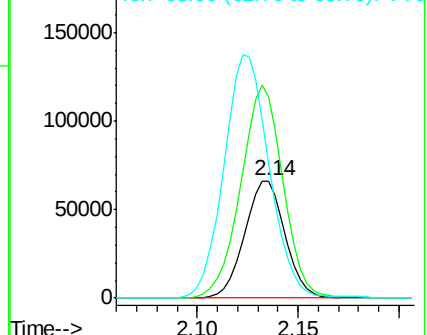
63 114.5 112.6 209.2

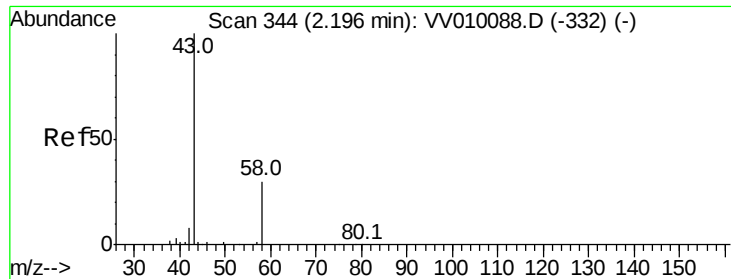


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 51.896 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

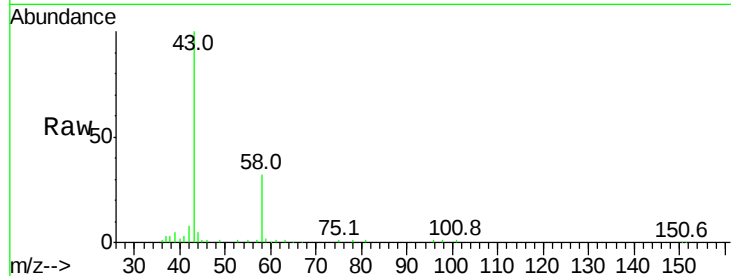
VSTD02599

Tgt Ion: 43 Resp: 53350

Ion Ratio Lower Upper

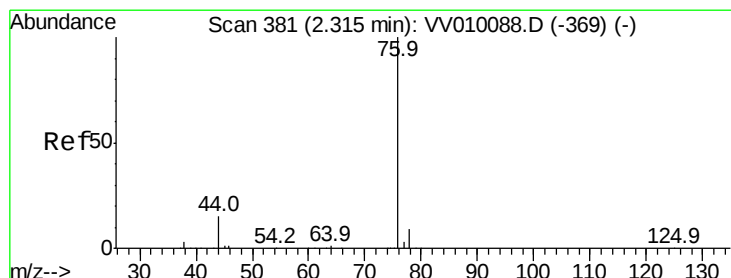
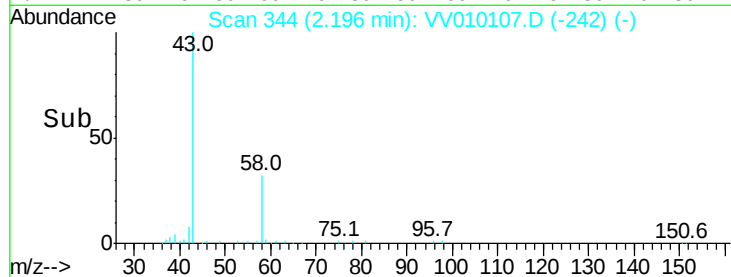
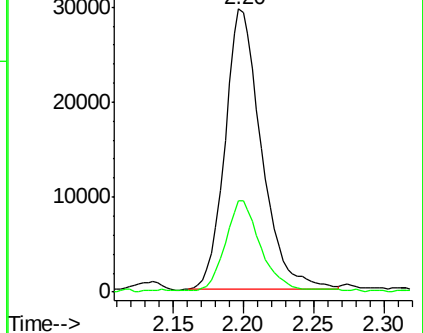
43 100

58 31.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 24.676 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010107.D

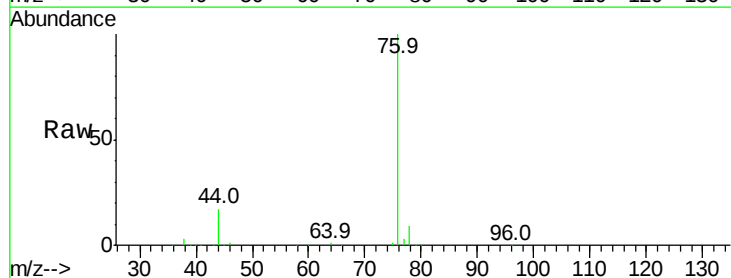
Acq: 04 Apr 2019 13:33

Tgt Ion: 76 Resp: 191097

Ion Ratio Lower Upper

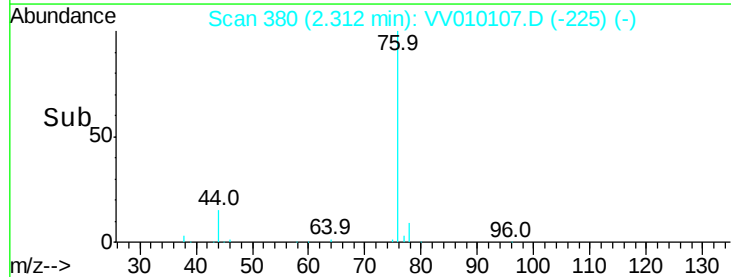
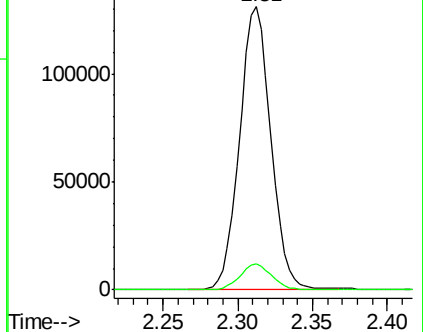
76 100

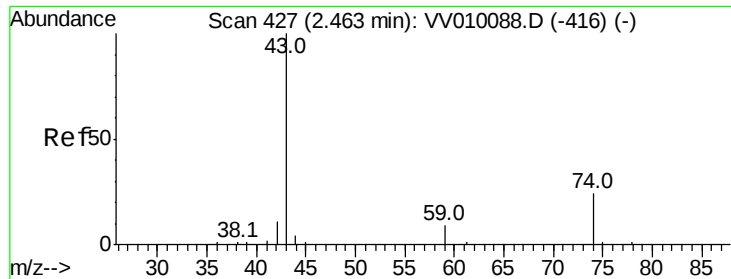
78 9.1 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

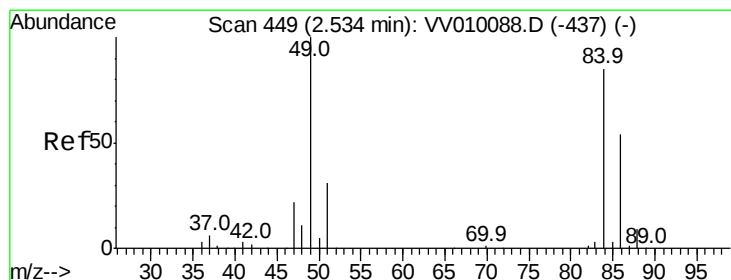
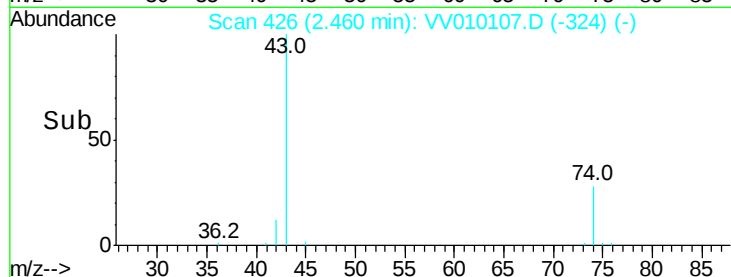
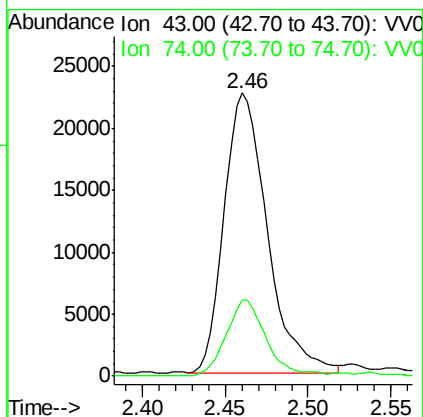
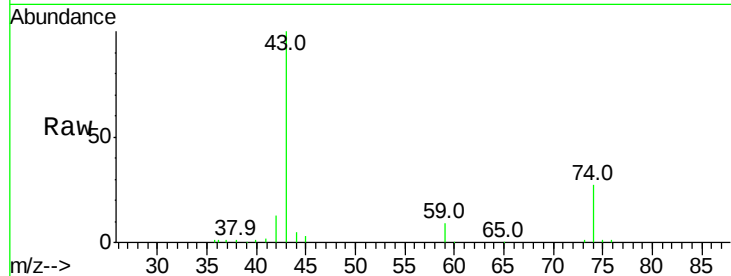




#15
Methyl Acetate
Concen: 24.892 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

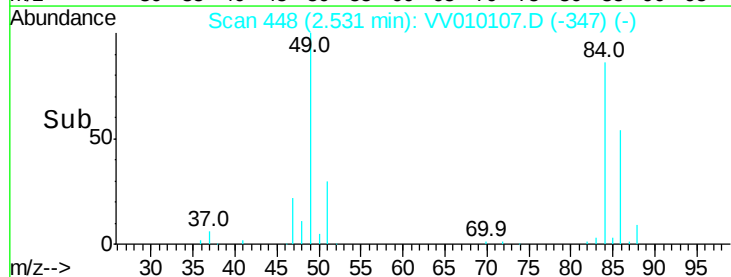
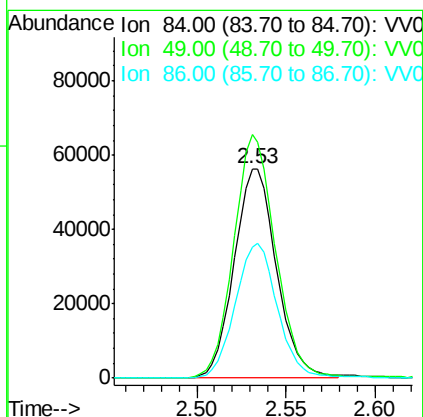
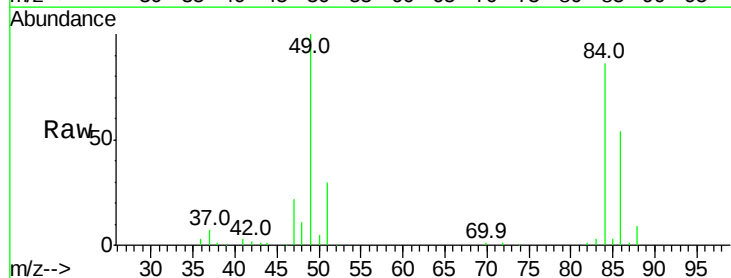
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

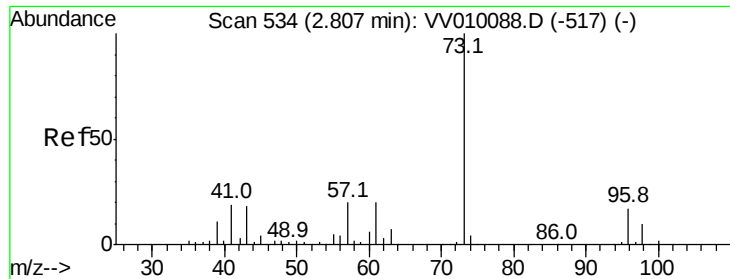
Tgt Ion: 43 Resp: 40946
Ion Ratio Lower Upper
43 100
74 25.2 20.0 30.0



#16
Methylene chloride
Concen: 19.479 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.01 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 84 Resp: 93412
Ion Ratio Lower Upper
84 100
49 116.4 84.3 156.5
86 62.7 45.4 84.2

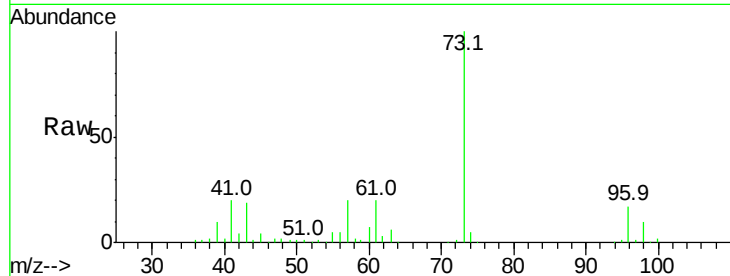




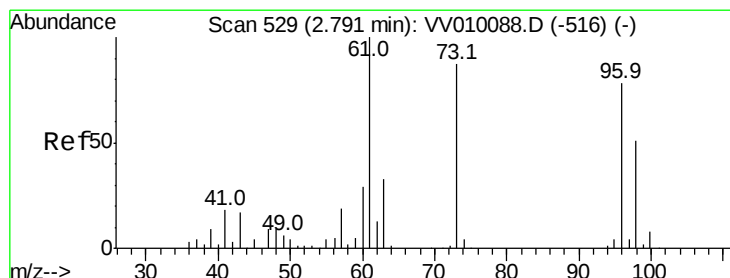
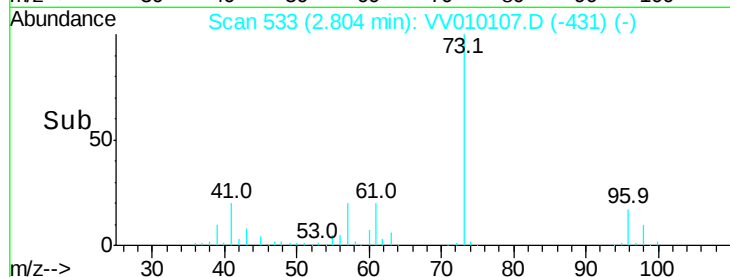
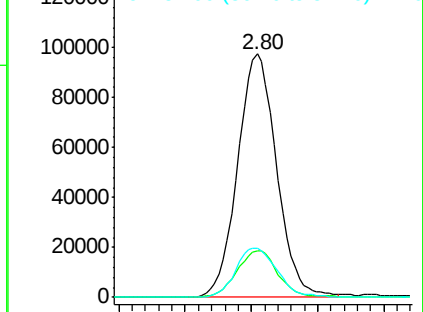
#17
Methyl tert-butyl Ether
Concen: 24.948 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

Tgt Ion: 73 Resp: 199379
Ion Ratio Lower Upper
73 100
43 19.9 15.5 23.3
57 21.6 16.8 25.2

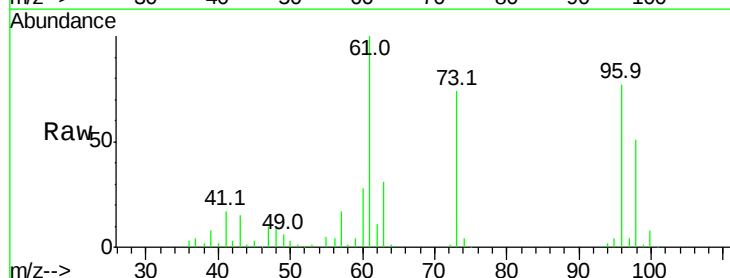


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

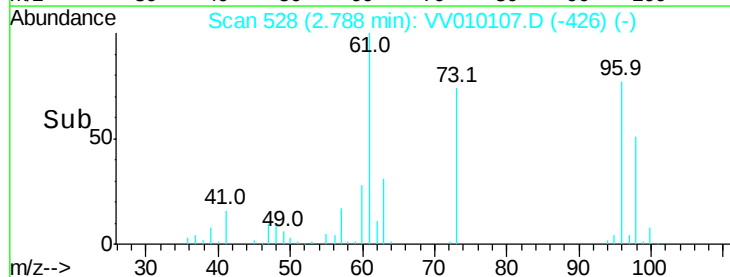
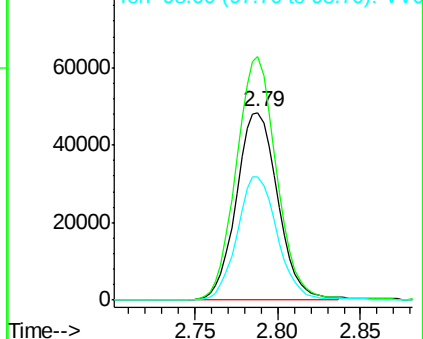


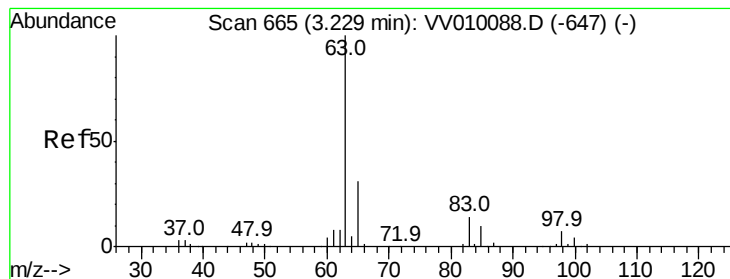
#18
trans-1,2-Dichloroethene
Concen: 25.922 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 96 Resp: 84490
Ion Ratio Lower Upper
96 100
61 129.7 90.0 167.2
98 65.7 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





#19

1,1-Dichloroethane

Concen: 26.211 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

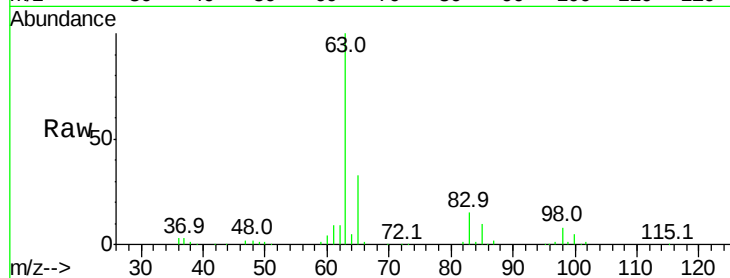
Tgt Ion: 63 Resp: 145153

Ion Ratio Lower Upper

63 100

65 33.4 22.3 41.3

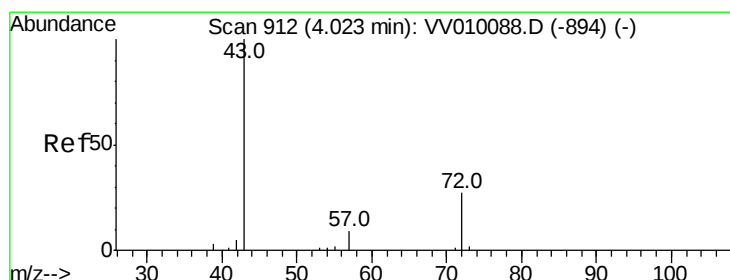
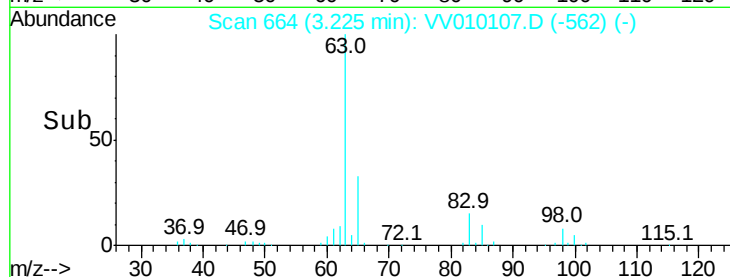
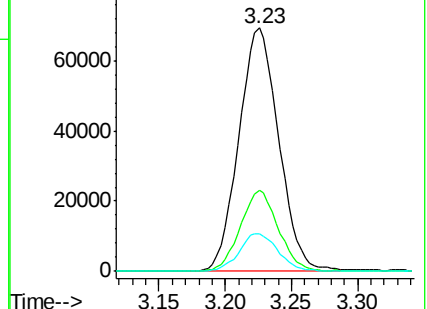
83 15.4 10.4 19.4



Abundance Ion 63.00 (62.70 to 63.70): VV010107.D (-647) (-)

Ion 65.00 (64.70 to 65.70): VV010107.D (-647) (-)

Ion 83.00 (82.70 to 83.70): VV010107.D (-647) (-)



#21

2-Butanone

Concen: 50.518 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.00 min

Lab File: VV010107.D

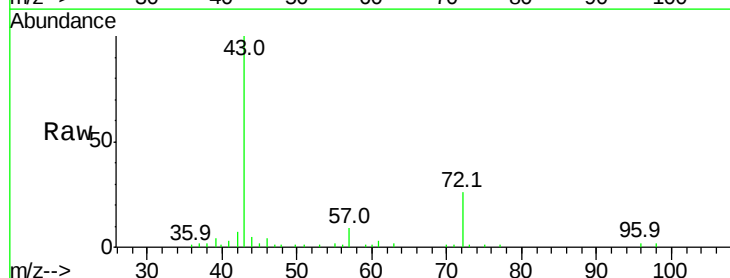
Acq: 04 Apr 2019 13:33

Tgt Ion: 43 Resp: 56875

Ion Ratio Lower Upper

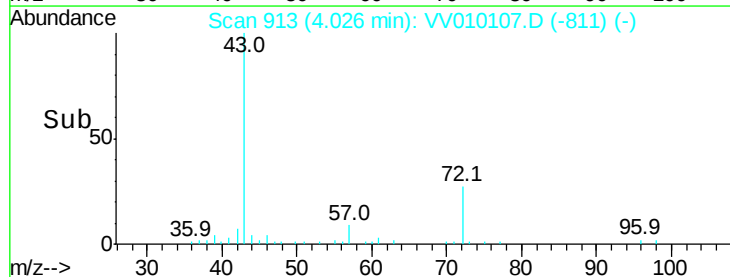
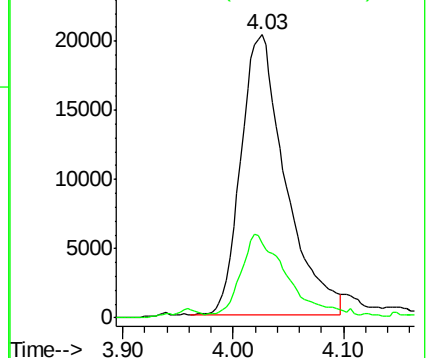
43 100

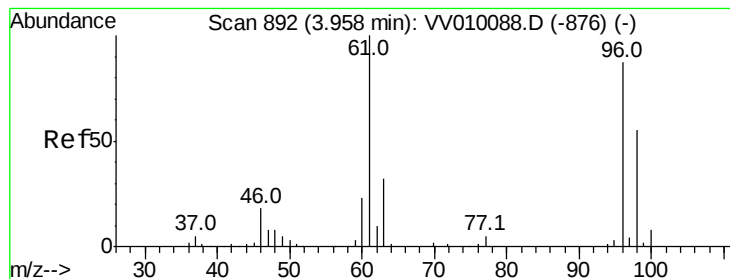
72 27.2 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VV010107.D (-811) (-)

Ion 72.00 (71.70 to 72.70): VV010107.D (-811) (-)



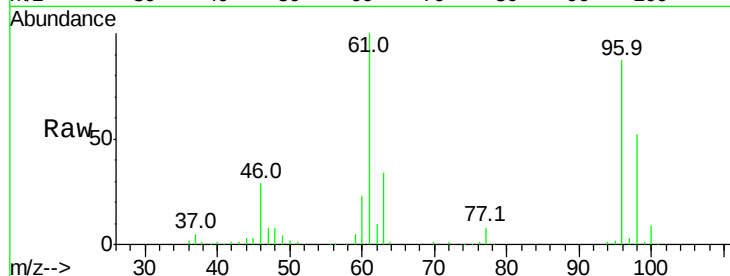


#22

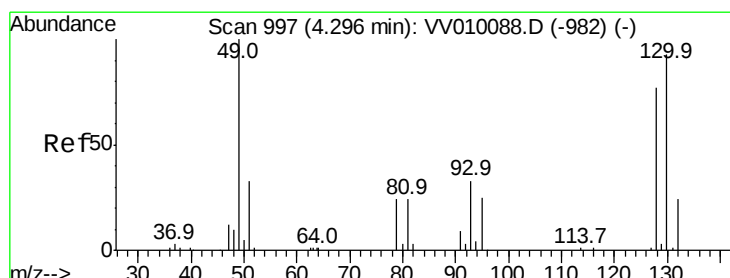
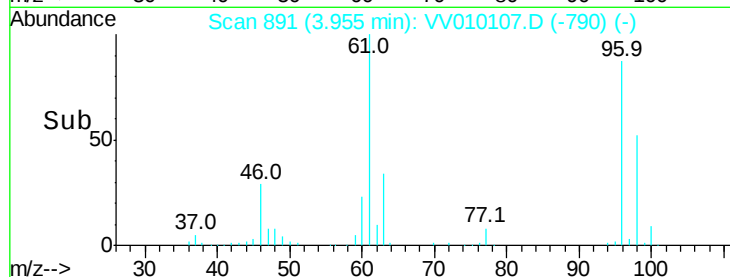
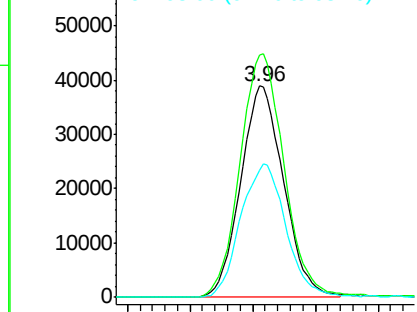
cis-1,2-Dichloroethene
 Concen: 25.628 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

Tgt Ion: 96 Resp: 92752
 Ion Ratio Lower Upper
 96 100
 61 114.9 82.7 153.5
 98 60.2 43.9 81.5



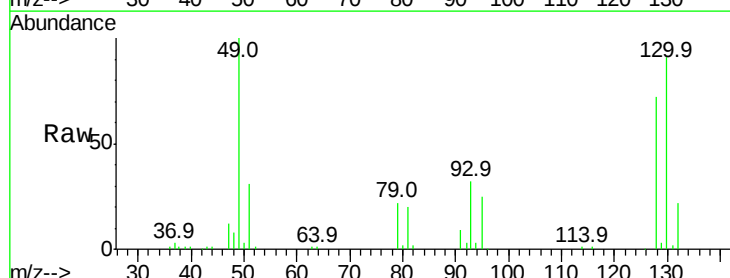
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



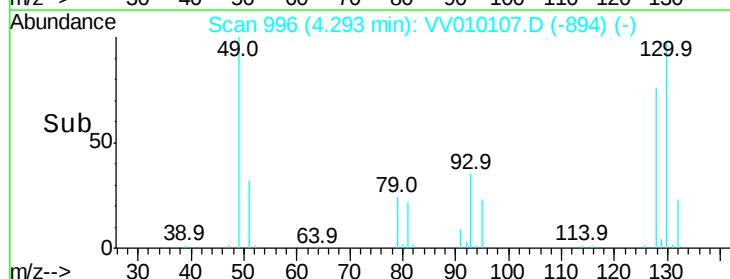
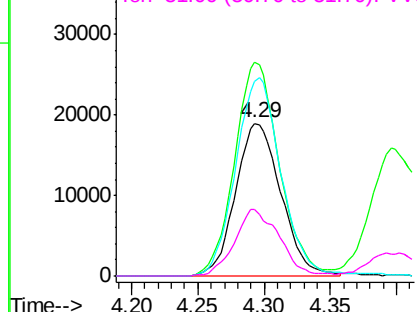
#23

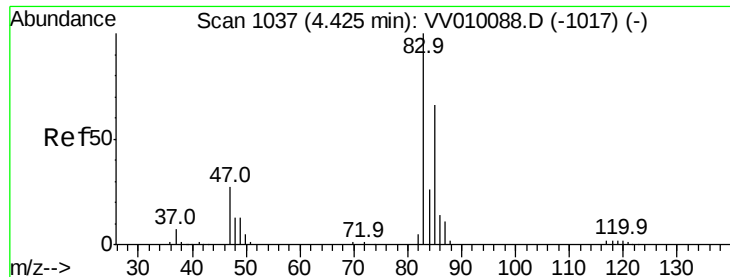
Bromochloromethane
 Concen: 25.770 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Tgt Ion: 128 Resp: 45252
 Ion Ratio Lower Upper
 128 100
 49 139.7 92.8 172.4
 130 127.2 80.6 149.6
 51 43.6 33.1 49.7



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

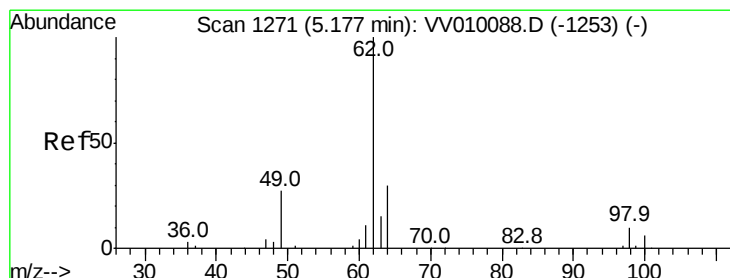
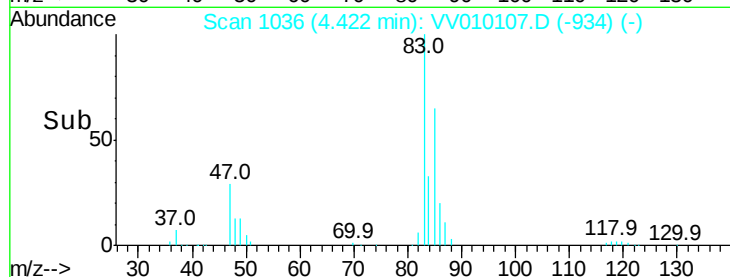
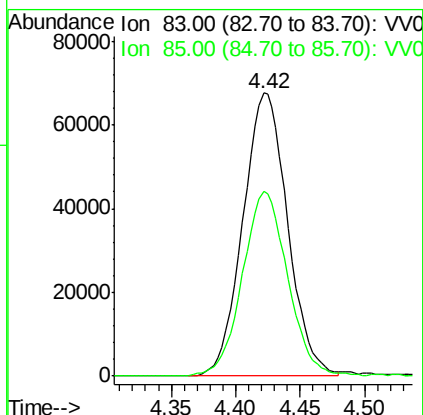
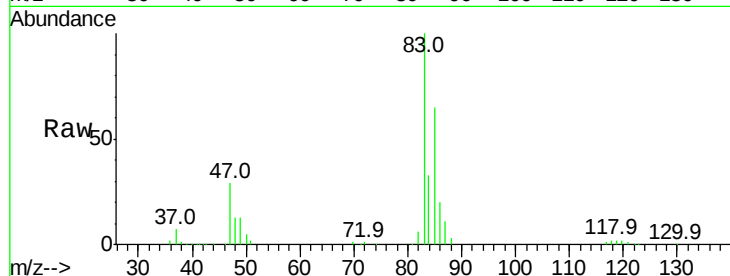




#25
Chloroform
Concen: 26.341 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

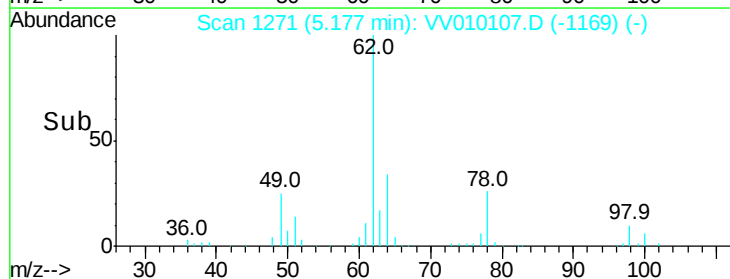
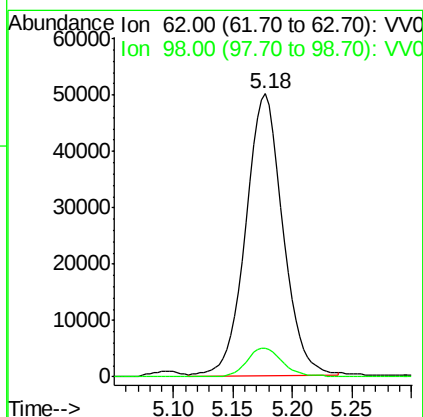
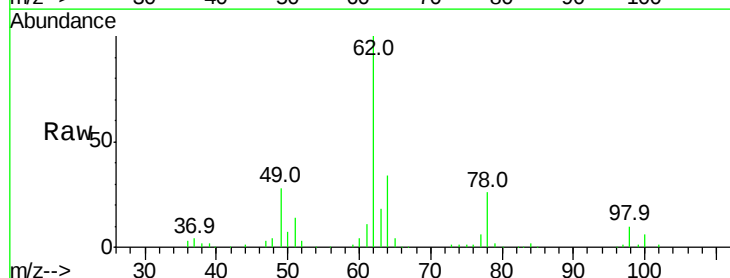
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

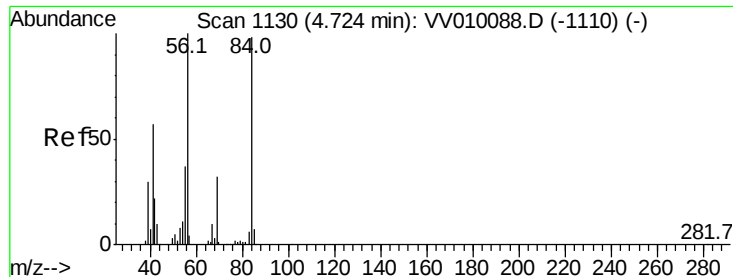
Tgt Ion: 83 Resp: 163472
Ion Ratio Lower Upper
83 100
85 66.0 46.4 86.2



#27
1,2-Dichloroethane
Concen: 25.442 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 62 Resp: 107705
Ion Ratio Lower Upper
62 100
98 10.0 7.2 10.8

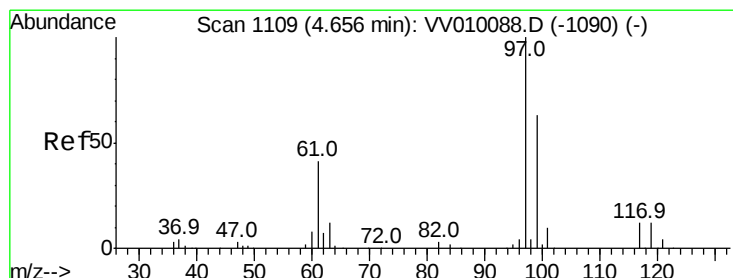
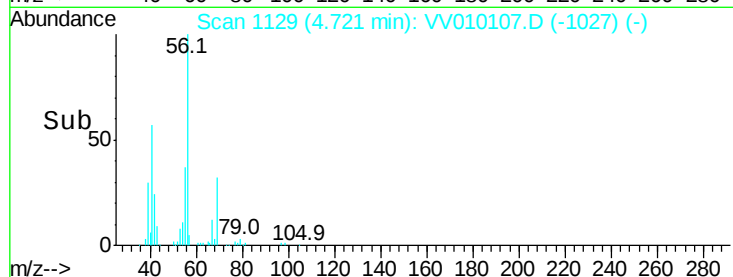
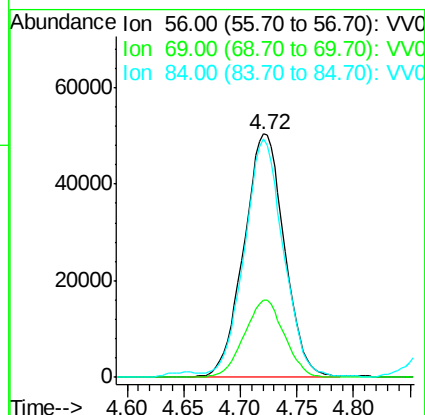
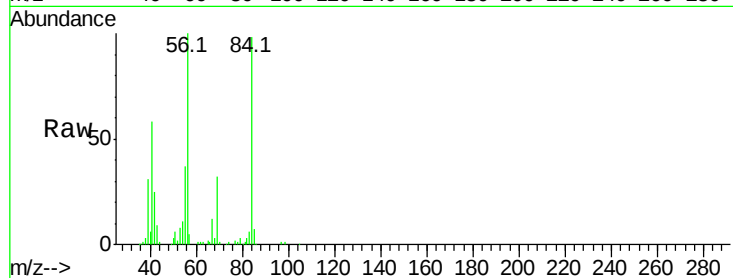




#30
Cyclohexane
Concen: 27.351 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

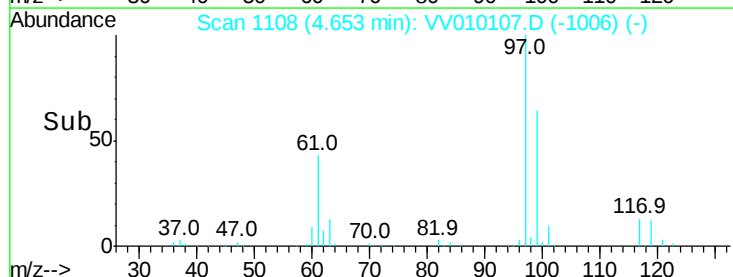
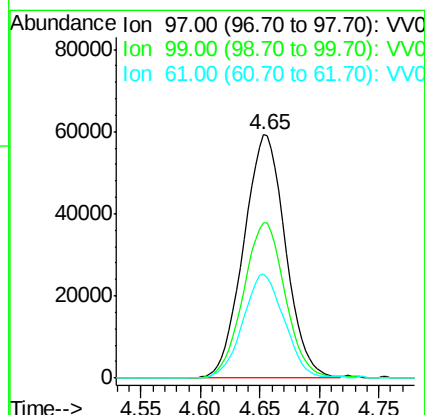
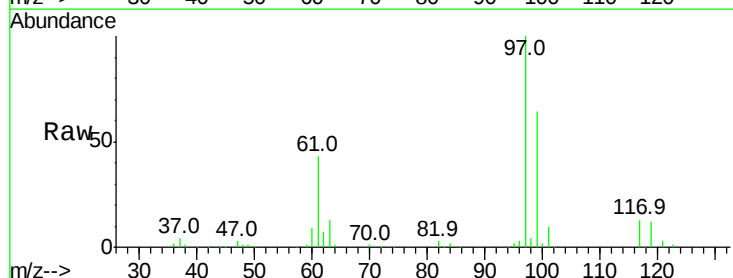
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

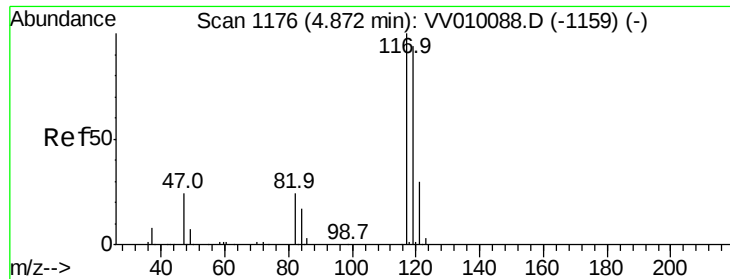
Tgt Ion: 56 Resp: 125647
Ion Ratio Lower Upper
56 100
69 31.2 25.1 37.7
84 95.0 76.0 114.0



#31
1,1,1-Trichloroethane
Concen: 27.878 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 97 Resp: 144690
Ion Ratio Lower Upper
97 100
99 63.6 52.4 78.6
61 42.3 34.1 51.1





#32

Carbon tetrachloride

Concen: 28.121 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.01 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

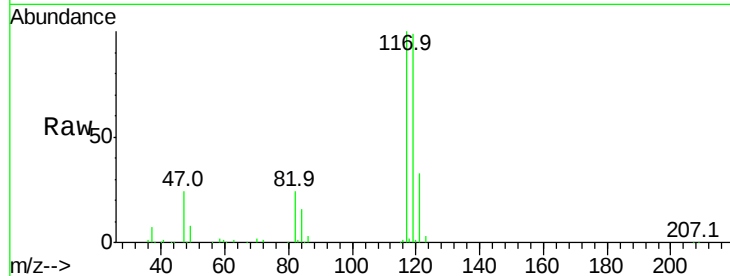
VSTD02599

Tgt Ion:117 Resp: 130452

Ion Ratio Lower Upper

117 100

119 97.3 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

60000

50000

40000

30000

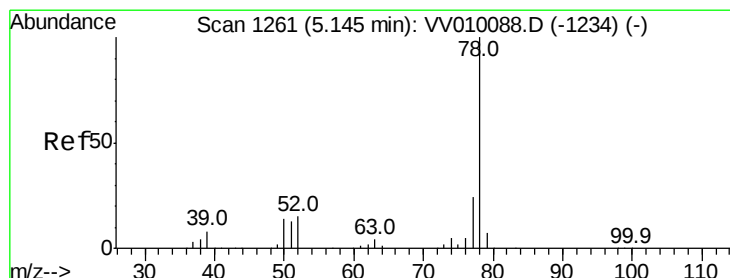
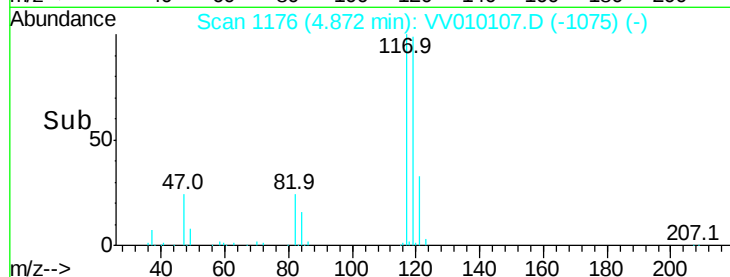
20000

10000

0

Time-->

4.80 4.85 4.90 4.95



#34

Benzene

Concen: 27.207 ug/L

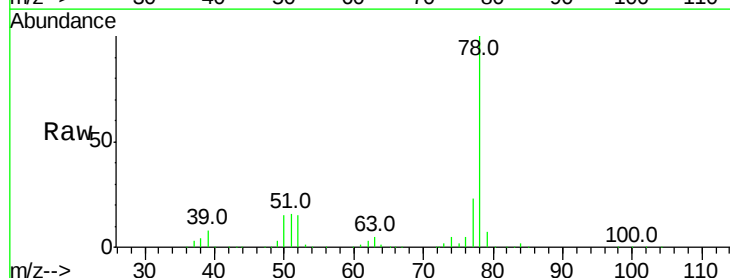
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Tgt Ion: 78 Resp: 338585



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.14

150000

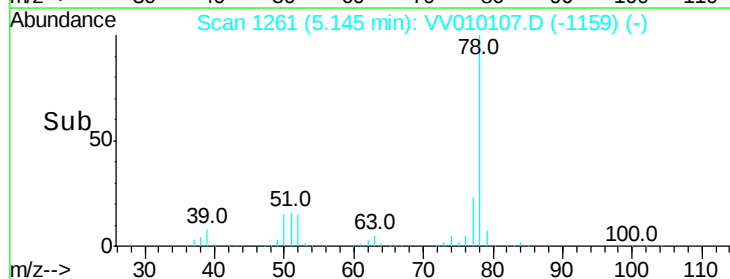
100000

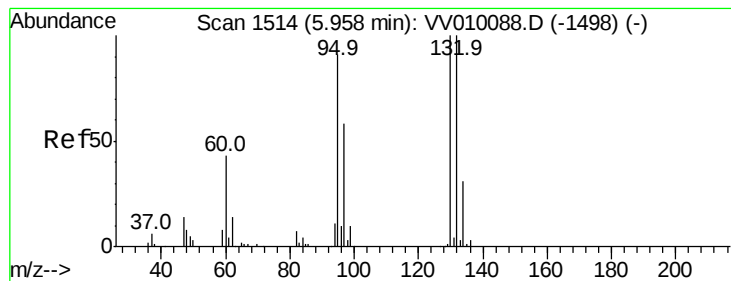
50000

0

Time-->

5.00 5.10 5.20





#35

Trichloroethene

Concen: 26.831 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

Tgt Ion: 95 Resp: 96107

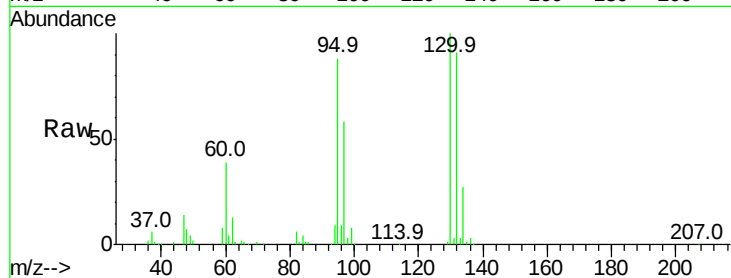
Ion Ratio Lower Upper

95 100

97 65.5 45.8 85.2

132 102.6 70.6 131.0

130 107.8 76.1 141.3

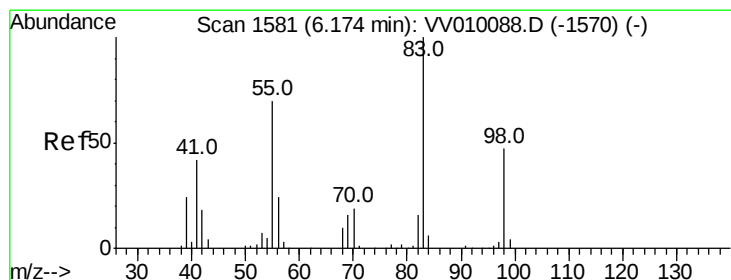
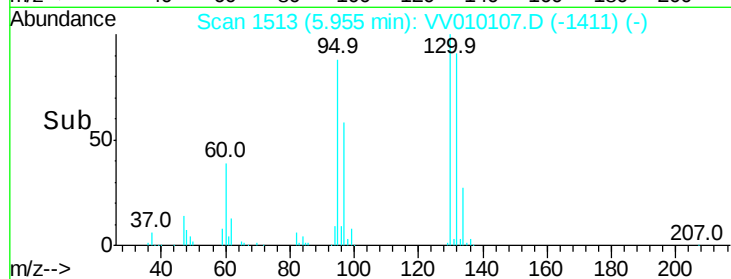
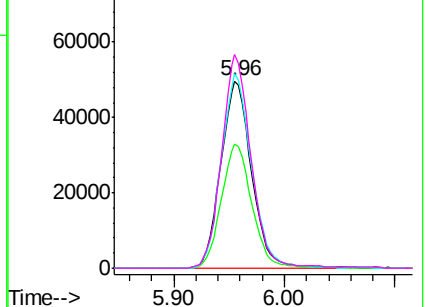


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 27.675 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

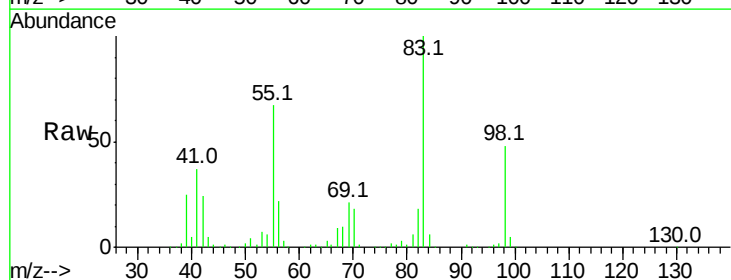
Tgt Ion: 83 Resp: 148511

Ion Ratio Lower Upper

83 100

55 69.5 56.3 84.5

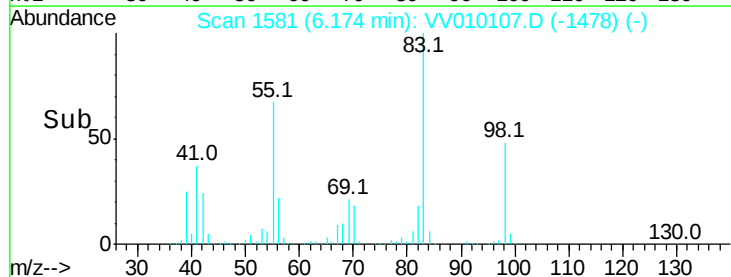
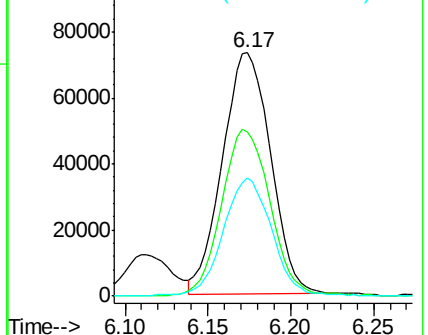
98 48.6 39.0 58.6

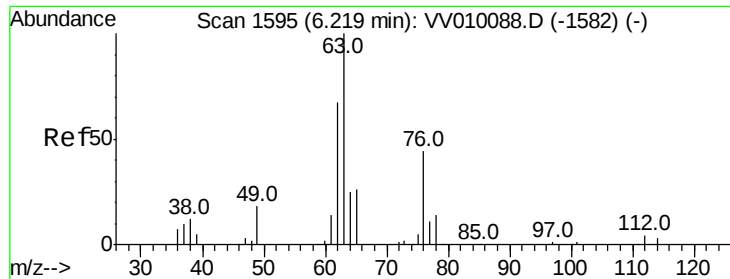


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

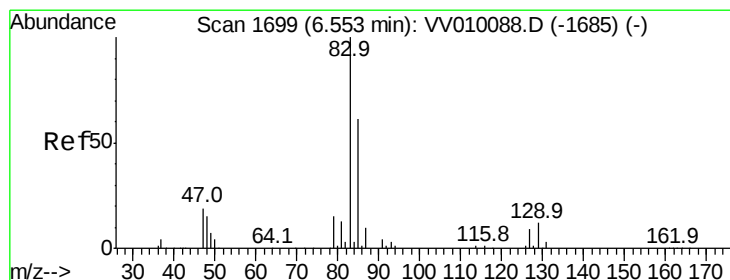
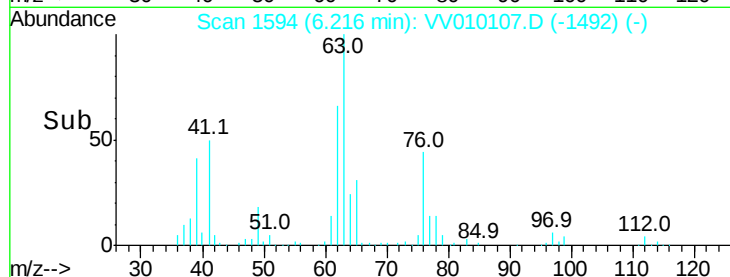
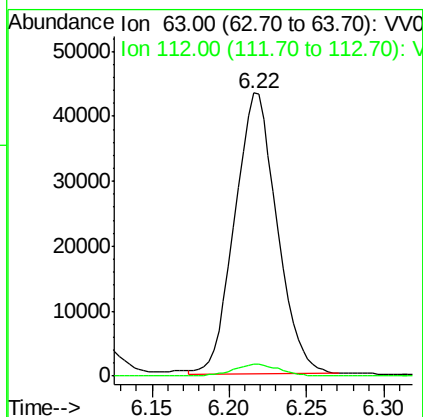
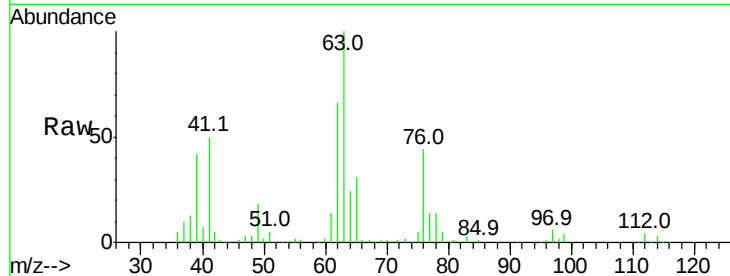




#40
 1,2-Dichloropropane
 Concen: 26.176 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

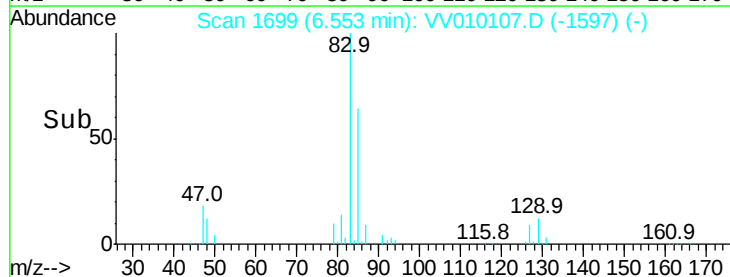
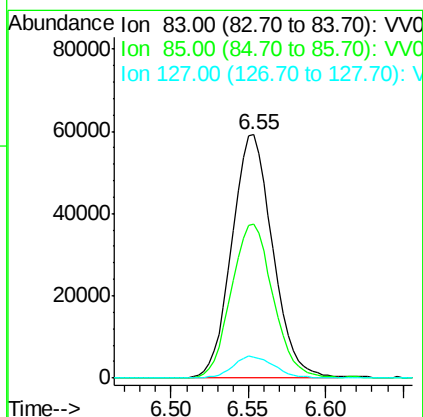
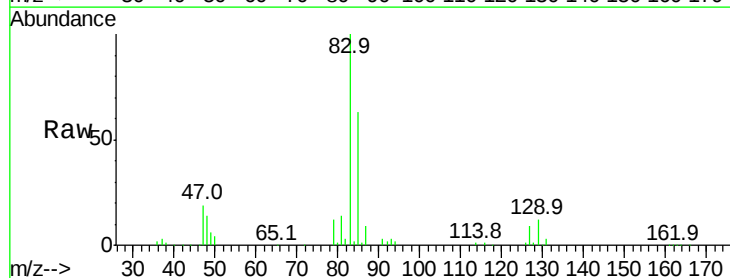
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

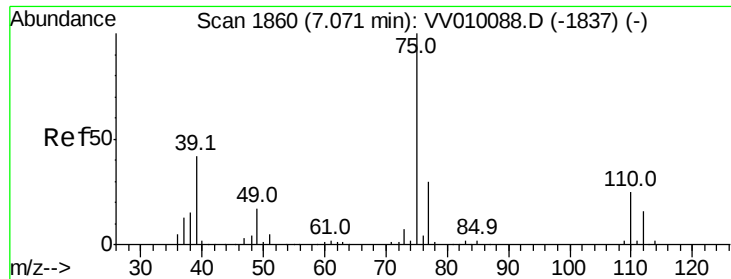
Tgt Ion: 63 Resp: 82307
 Ion Ratio Lower Upper
 63 100
 112 4.7 3.6 5.4



#41
 Bromodichloromethane
 Concen: 26.612 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Tgt Ion: 83 Resp: 108824
 Ion Ratio Lower Upper
 83 100
 85 63.4 47.5 88.3
 127 8.7 7.7 11.5



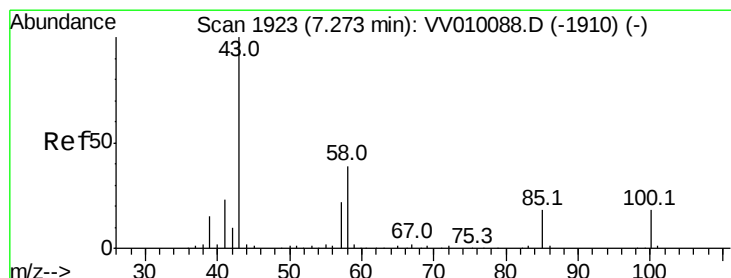
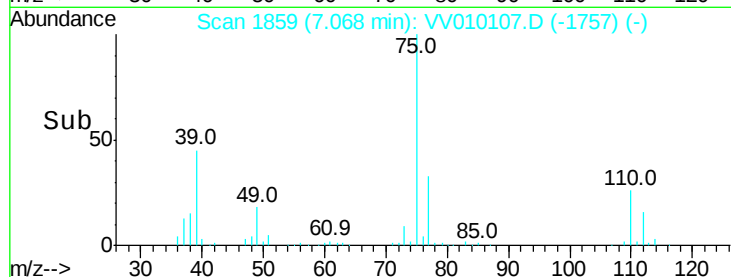
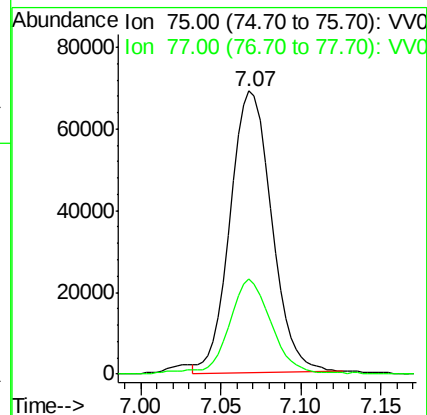
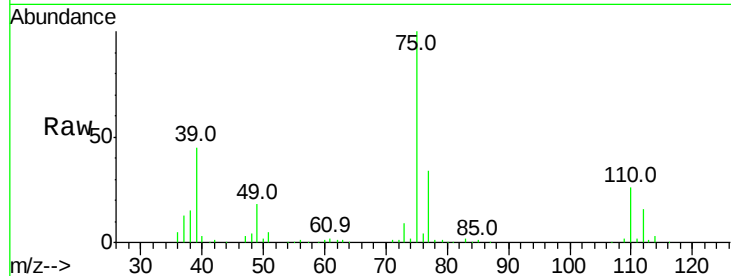


#42

cis-1,3-Dichloropropene
Concen: 26.855 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

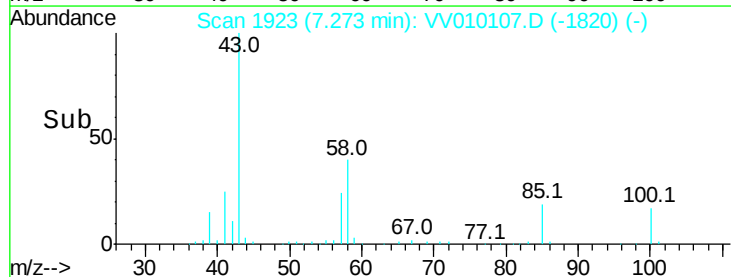
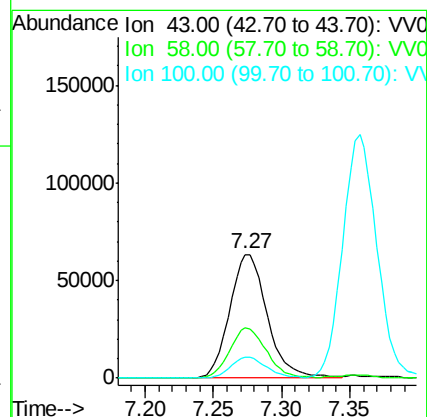
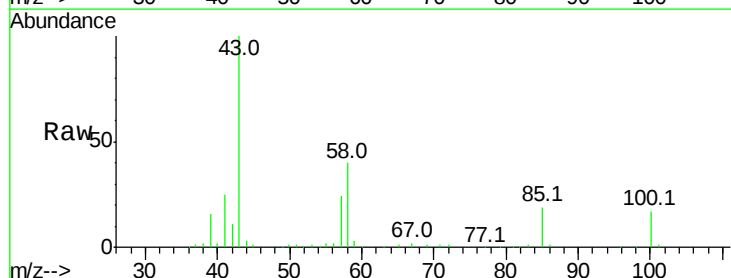
Tgt Ion: 75 Resp: 122235
Ion Ratio Lower Upper
75 100
77 33.6 22.1 41.1

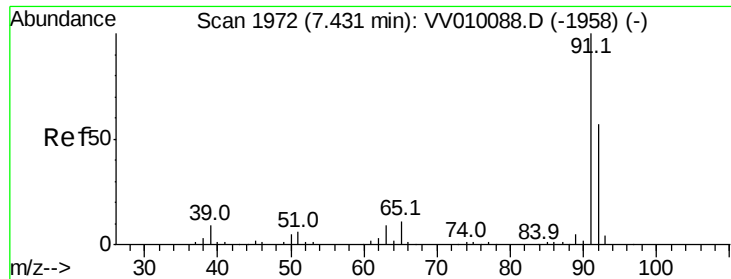


#43

4-Methyl-2-pentanone
Concen: 52.077 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 43 Resp: 121156
Ion Ratio Lower Upper
43 100
58 39.8 31.5 47.3
100 16.6 13.4 20.0





#44

Toluene

Concen: 26.697 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

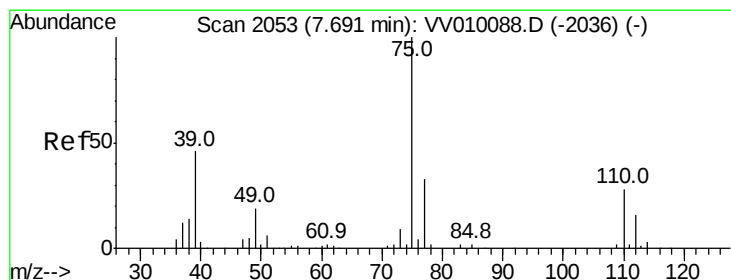
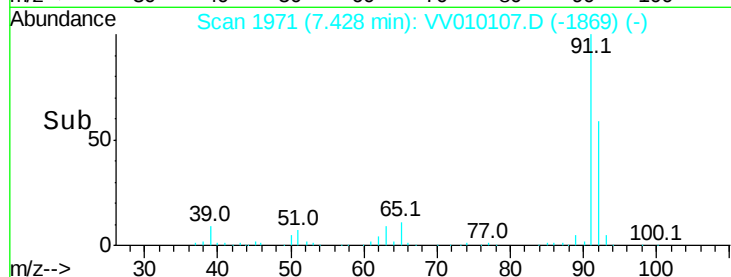
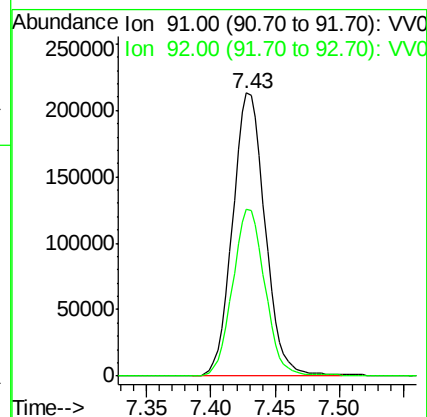
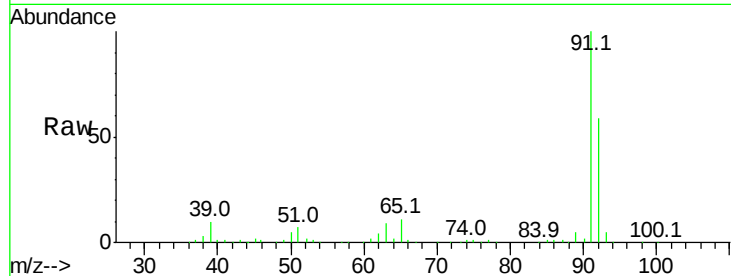
VSTD02599

Tgt Ion: 91 Resp: 372876

Ion Ratio Lower Upper

91 100

92 58.8 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 27.314 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010107.D

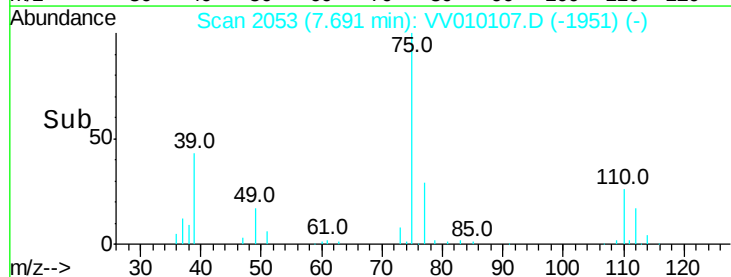
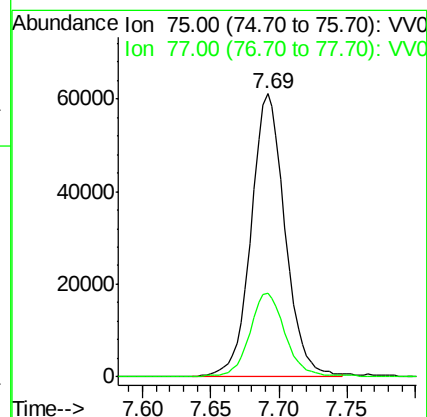
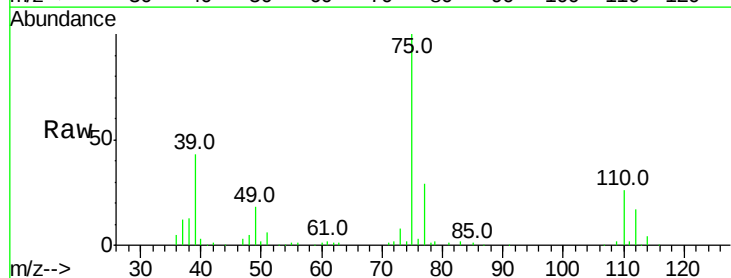
Acq: 04 Apr 2019 13:33

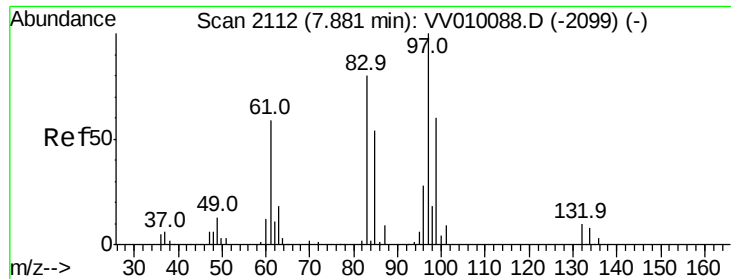
Tgt Ion: 75 Resp: 105735

Ion Ratio Lower Upper

75 100

77 29.4 23.5 43.7

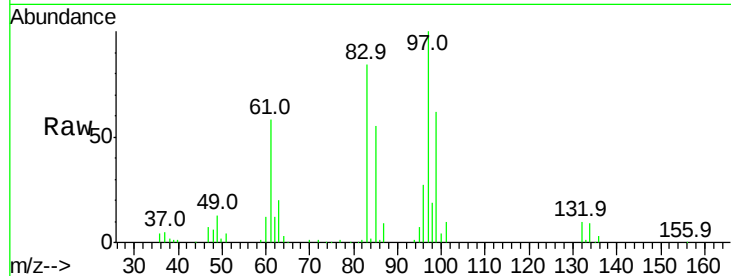




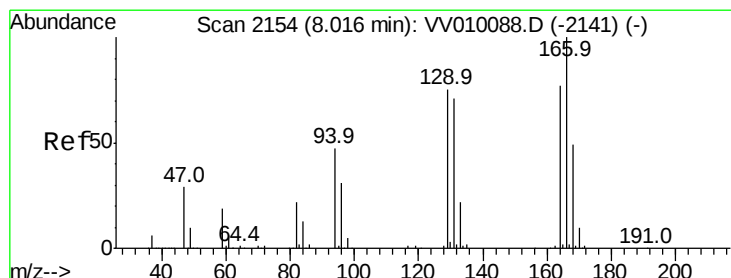
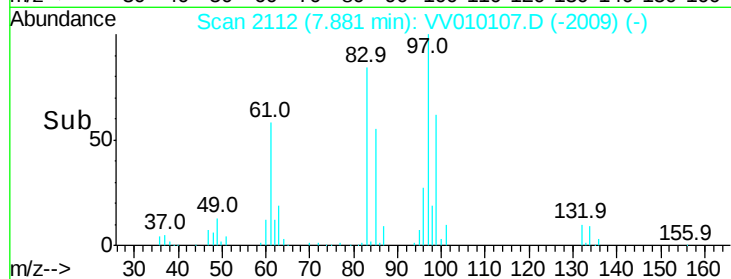
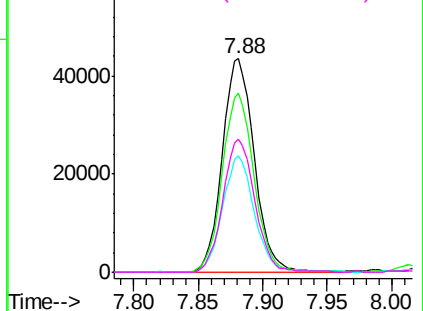
#46
 1,1,2-Trichloroethane
 Concen: 26.910 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

Tgt Ion: 97 Resp: 75029
 Ion Ratio Lower Upper
 97 100
 83 83.7 58.5 108.7
 85 54.7 37.2 69.2
 99 62.3 43.3 80.3

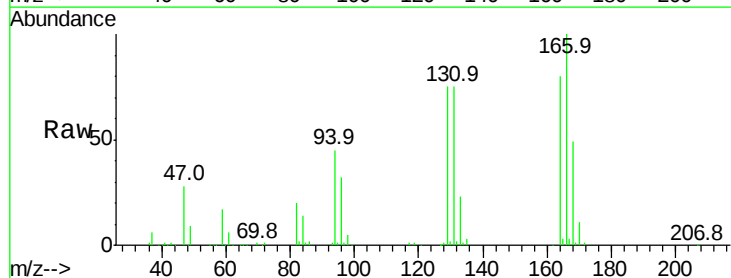


Abundance Ion 97.00 (96.70 to 97.70): VV010088.D (-2099) (-)
 Ion 83.00 (82.70 to 83.70): VV010088.D (-2099) (-)
 Ion 85.00 (84.70 to 85.70): VV010088.D (-2099) (-)
 Ion 99.00 (98.70 to 99.70): VV010088.D (-2099) (-)

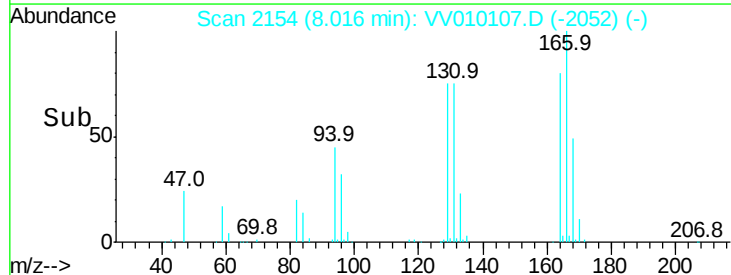
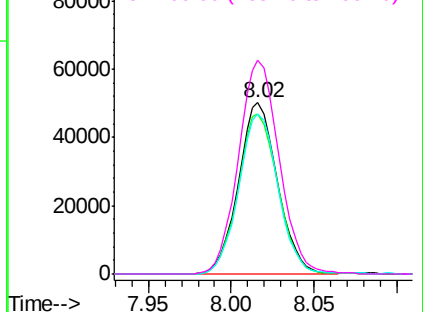


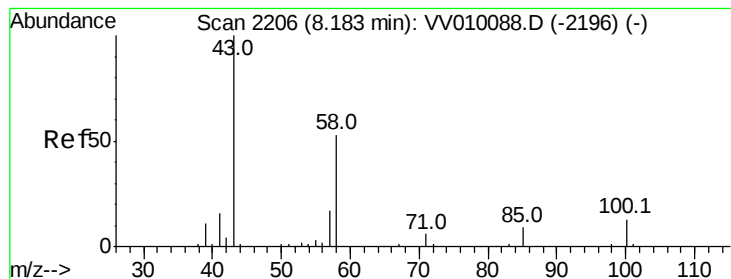
#47
 Tetrachloroethene
 Concen: 27.402 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Tgt Ion: 164 Resp: 82160
 Ion Ratio Lower Upper
 164 100
 129 93.6 67.8 125.8
 131 93.7 65.2 121.0
 166 124.7 93.8 174.2



Abundance Ion 164.00 (163.70 to 164.70): VV010088.D (-2141) (-)
 Ion 129.00 (128.70 to 129.70): VV010088.D (-2141) (-)
 Ion 131.00 (130.70 to 131.70): VV010088.D (-2141) (-)
 Ion 166.00 (165.70 to 166.70): VV010088.D (-2141) (-)





#49

2-Hexanone

Concen: 53.928 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

Tgt Ion: 43 Resp: 89613

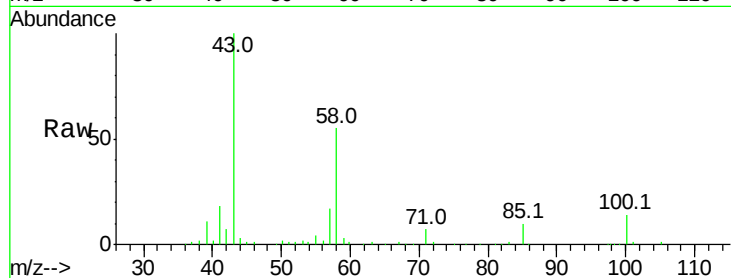
Ion Ratio Lower Upper

43 100

58 54.1 44.3 66.5

57 17.0 13.8 20.8

100 13.5 10.6 15.8

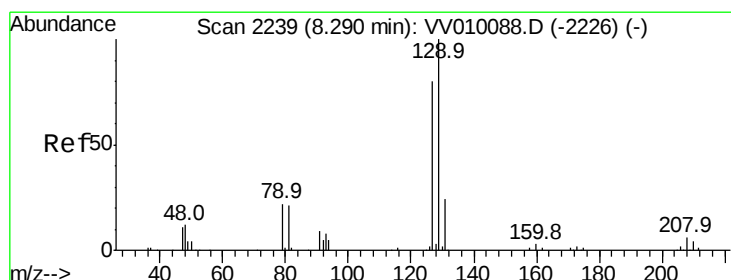
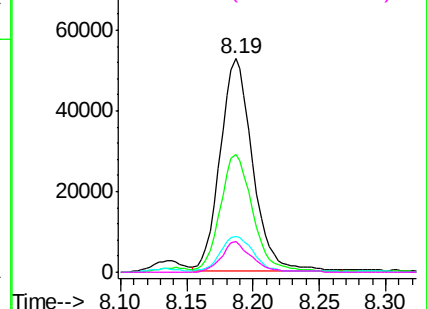
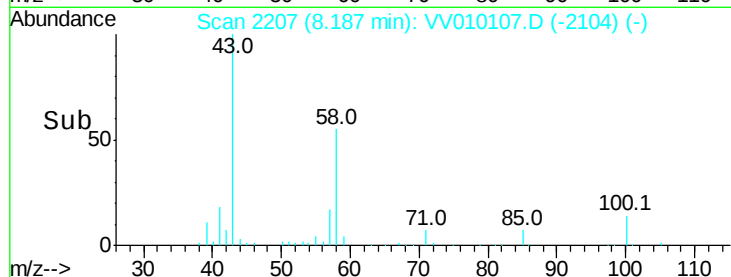


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#50

Dibromochloromethane

Concen: 27.260 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. -0.00 min

Lab File: VV010107.D

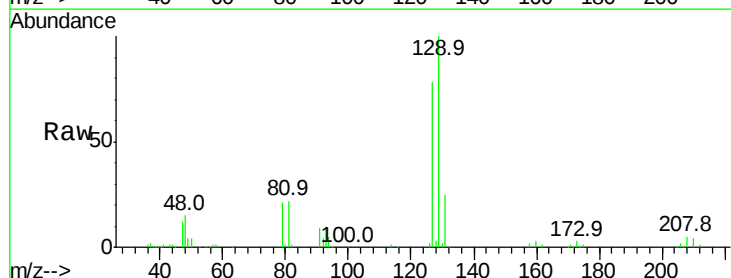
Acq: 04 Apr 2019 13:33

Tgt Ion: 129 Resp: 85200

Ion Ratio Lower Upper

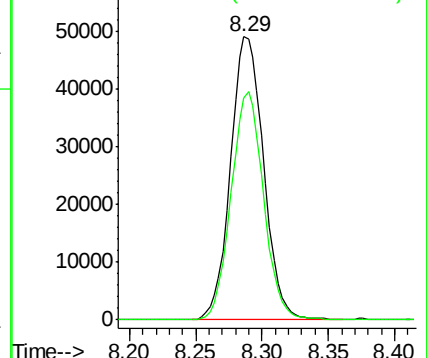
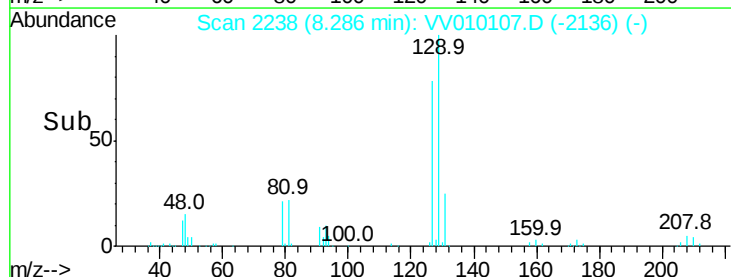
129 100

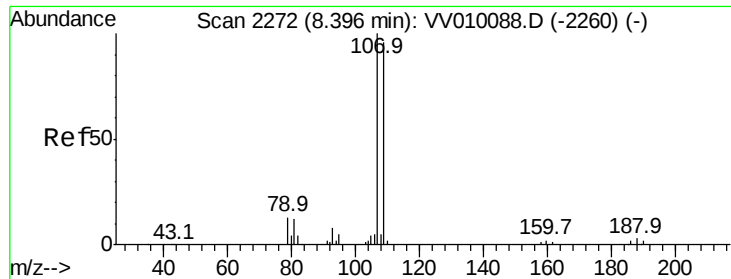
127 78.5 52.1 96.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 26.413 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

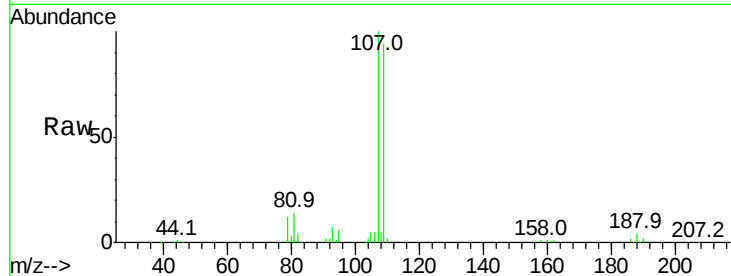
Tgt Ion:107 Resp: 72778

Ion Ratio Lower Upper

107 100

109 94.0 66.5 123.5

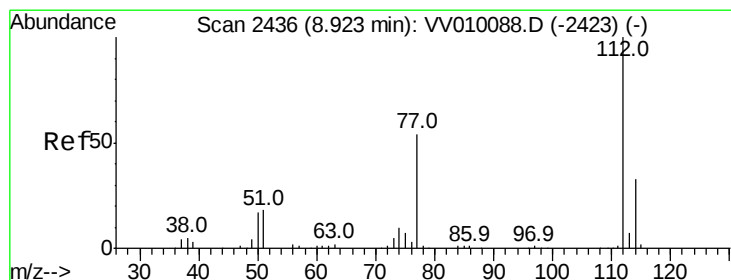
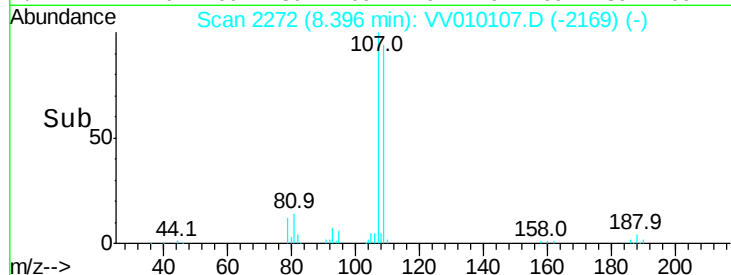
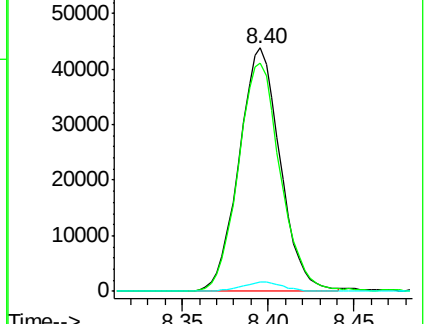
188 3.6 3.3 4.9



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.755 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

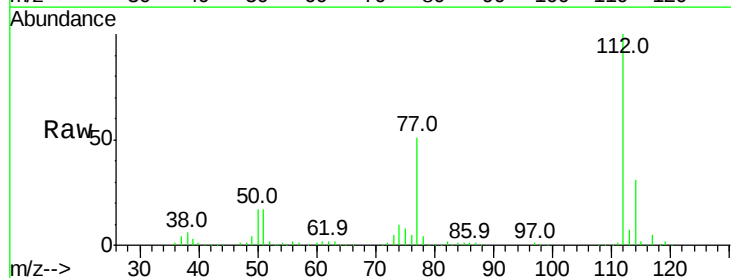
Tgt Ion:112 Resp: 254894

Ion Ratio Lower Upper

112 100

77 51.2 42.9 64.3

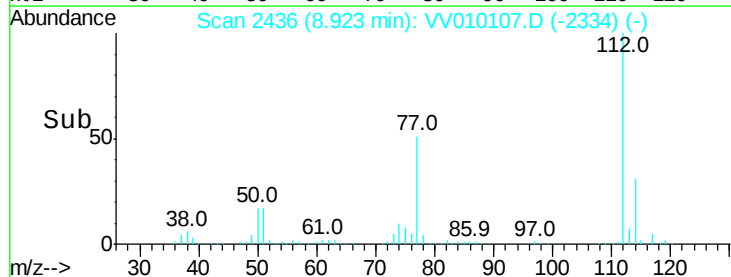
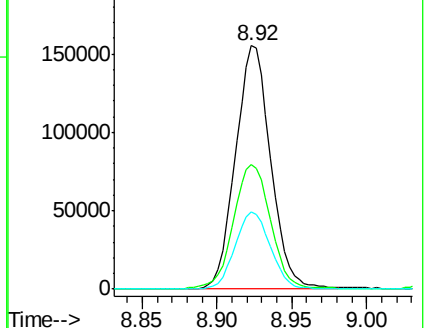
114 31.5 23.4 43.4

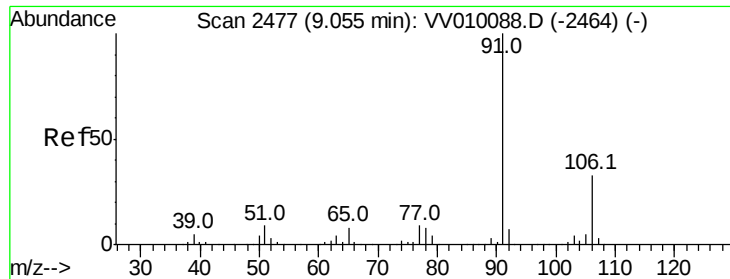


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

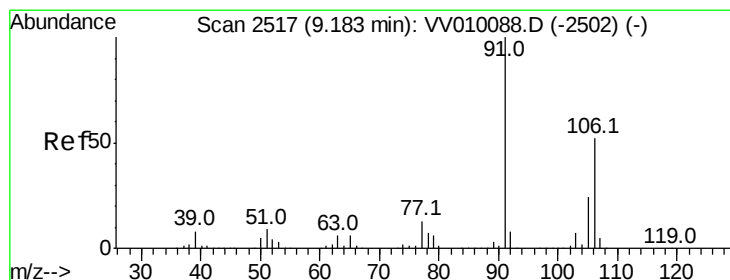
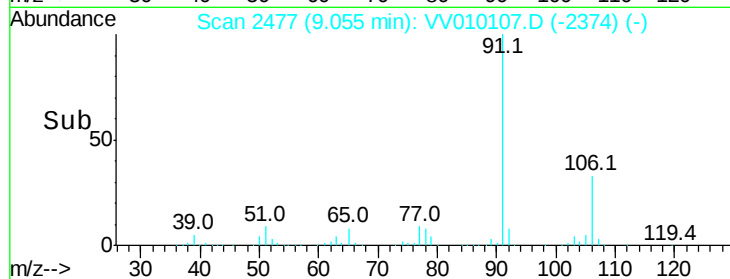
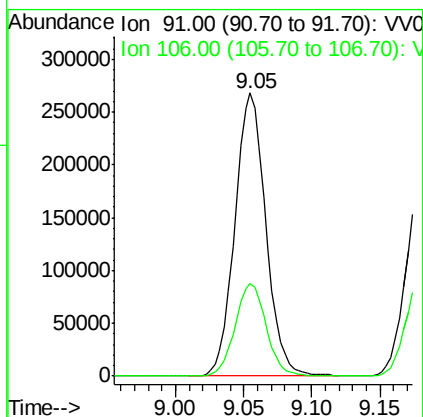
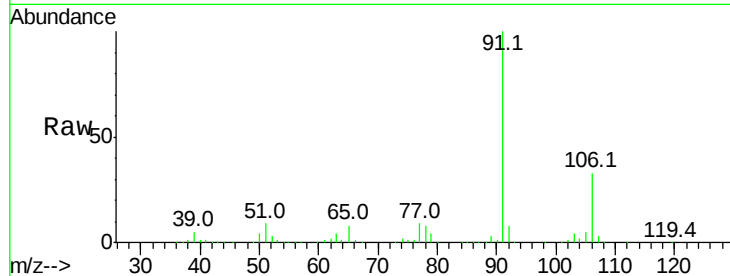




#53
Ethylbenzene
Concen: 27.582 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

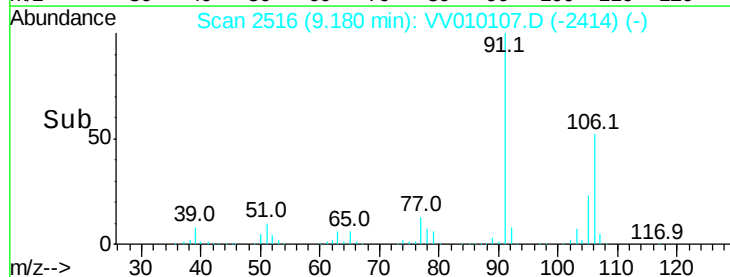
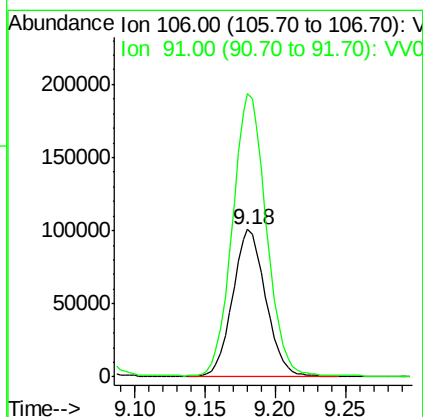
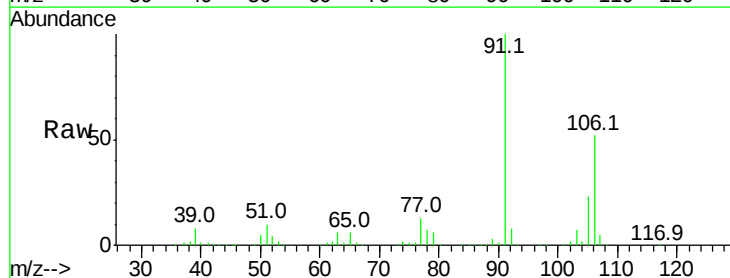
Instrument :
MSVOA_V
ClientSampleId :
VSTD02599

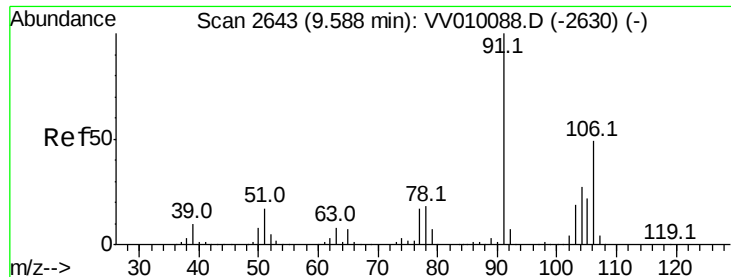
Tgt Ion: 91 Resp: 422441
Ion Ratio Lower Upper
91 100
106 32.7 23.1 42.9



#54
m,p-Xylene
Concen: 27.691 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV010107.D
Acq: 04 Apr 2019 13:33

Tgt Ion: 106 Resp: 165070
Ion Ratio Lower Upper
106 100
91 192.4 139.3 258.7





#55

o-xylene

Concen: 27.001 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

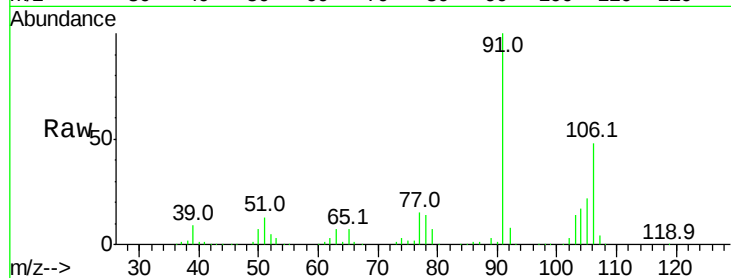
VSTD02599

Tgt Ion:106 Resp: 155940

Ion Ratio Lower Upper

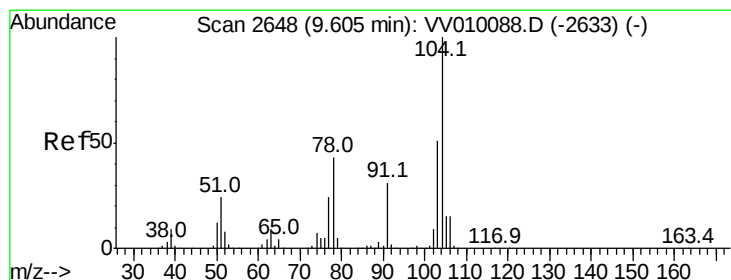
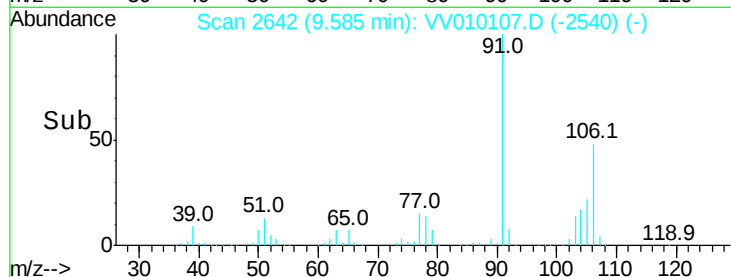
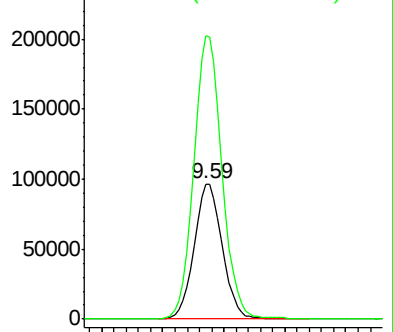
106 100

91 209.6 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 27.854 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV010107.D

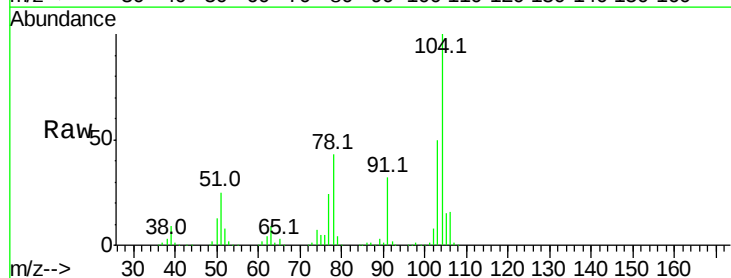
Acq: 04 Apr 2019 13:33

Tgt Ion:104 Resp: 266099

Ion Ratio Lower Upper

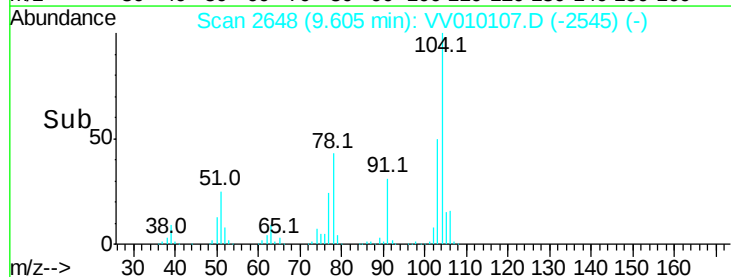
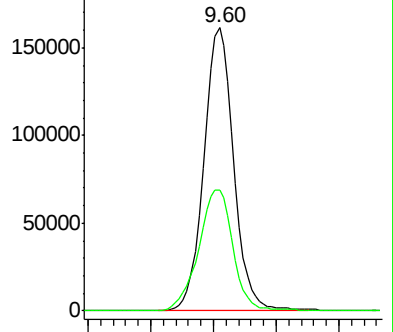
104 100

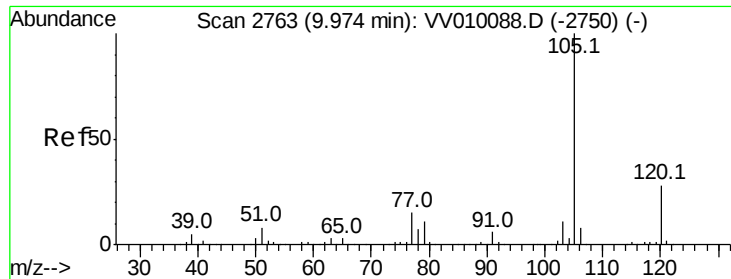
78 42.7 30.5 56.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 28.668 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

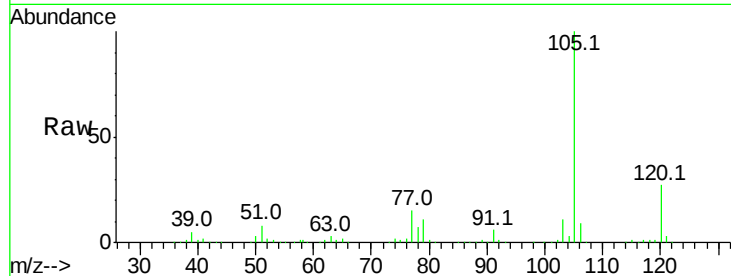
Tgt Ion:105 Resp: 436630

Ion Ratio Lower Upper

105 100

120 27.0 21.5 32.3

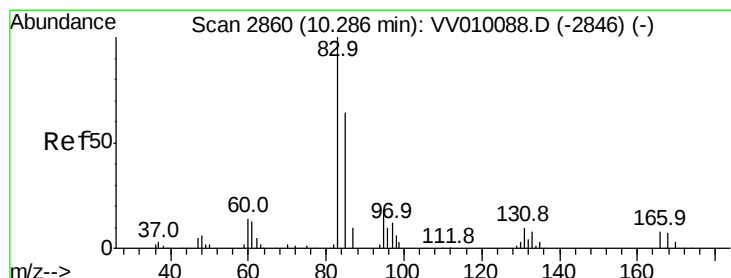
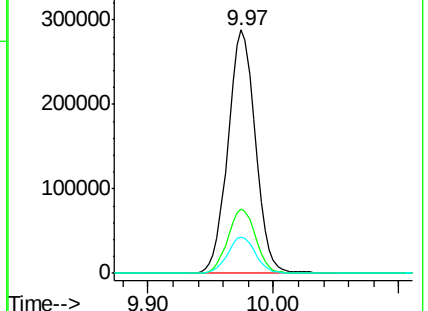
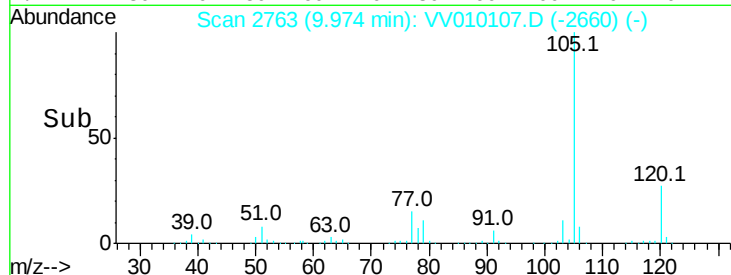
77 15.2 12.4 18.6



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: 26.065 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

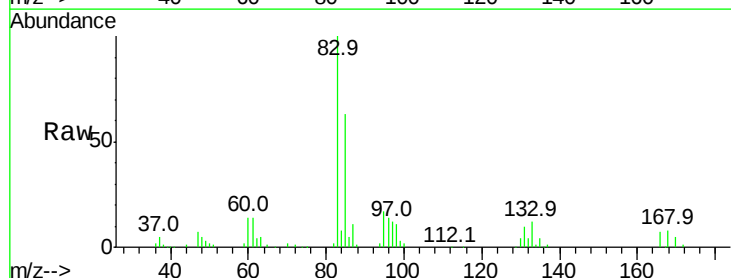
Tgt Ion: 83 Resp: 93340

Ion Ratio Lower Upper

83 100

85 63.3 46.1 85.7

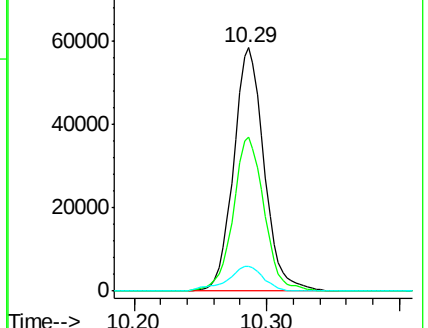
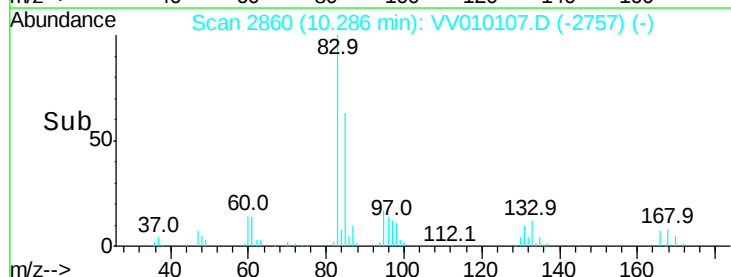
131 10.3 9.0 13.4

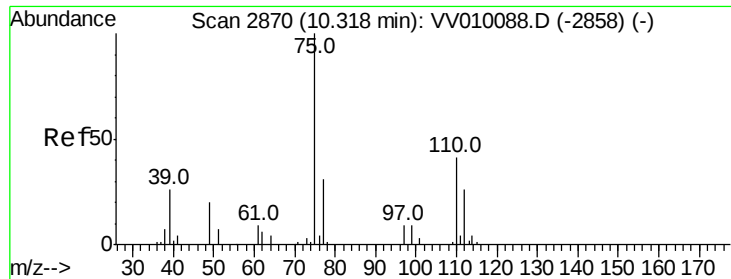


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 26.472 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

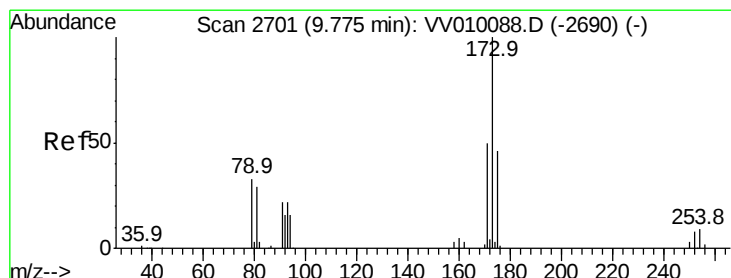
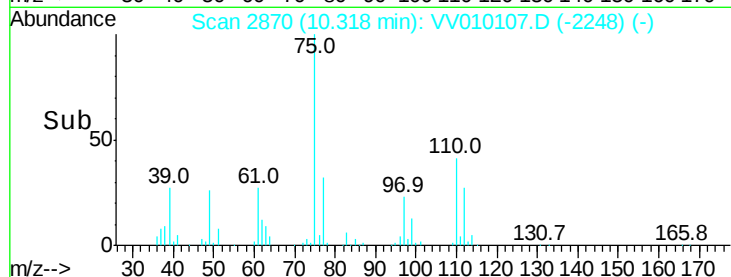
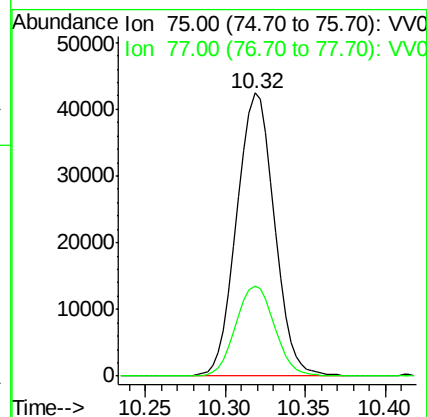
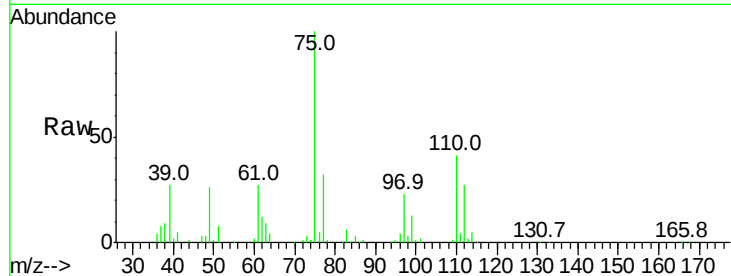
VSTD02599

Tgt Ion: 75 Resp: 67977

Ion Ratio Lower Upper

75 100

77 32.7 25.8 38.8



#62

Bromoform

Concen: 26.968 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

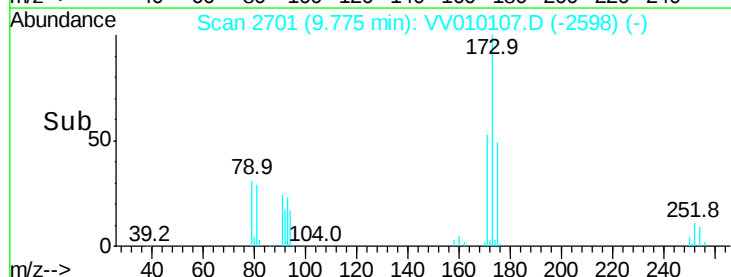
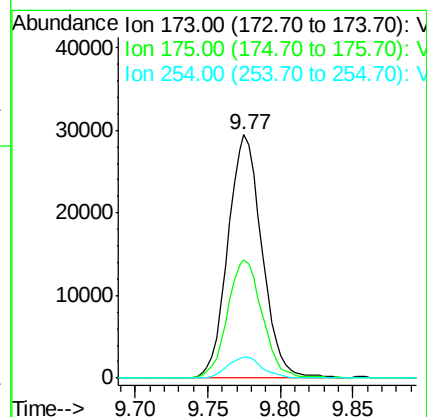
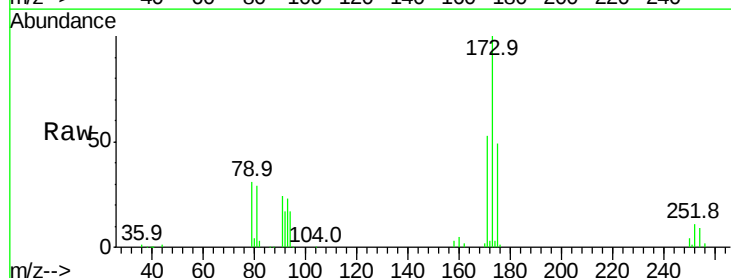
Tgt Ion: 173 Resp: 48067

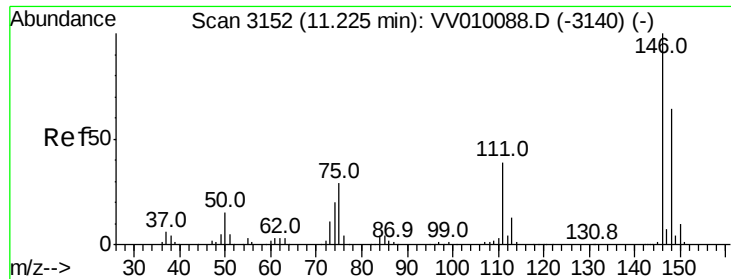
Ion Ratio Lower Upper

173 100

175 49.5 38.7 58.1

254 8.6 6.7 10.1





#63

1,3-Dichlorobenzene

Concen: 27.597 ug/L

RT: 11.23 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

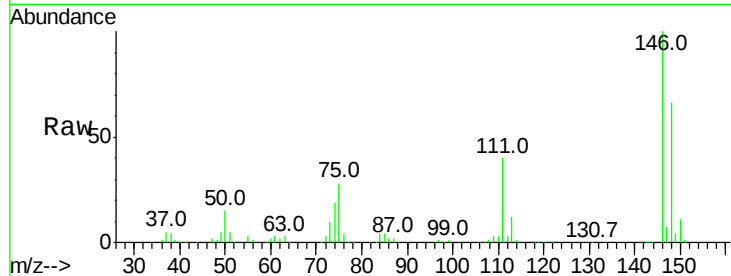
Tgt Ion:146 Resp: 205280

Ion Ratio Lower Upper

146 100

111 39.8 26.8 49.8

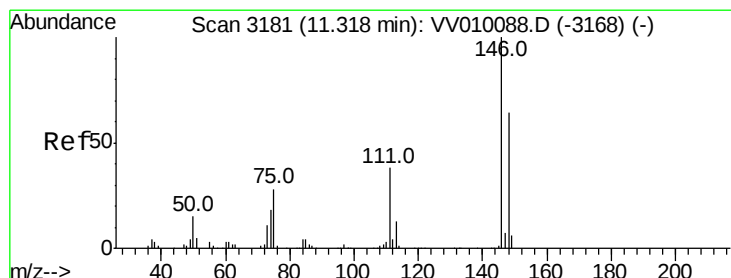
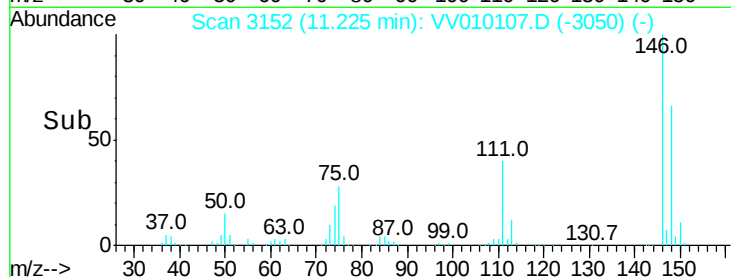
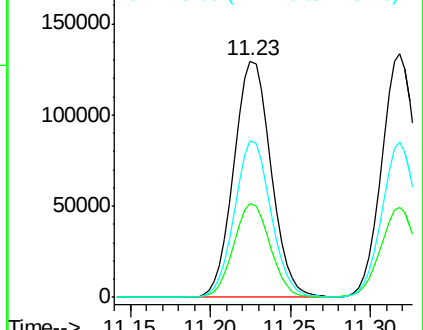
148 66.5 42.7 79.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#64

1,4-Dichlorobenzene

Concen: 27.063 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

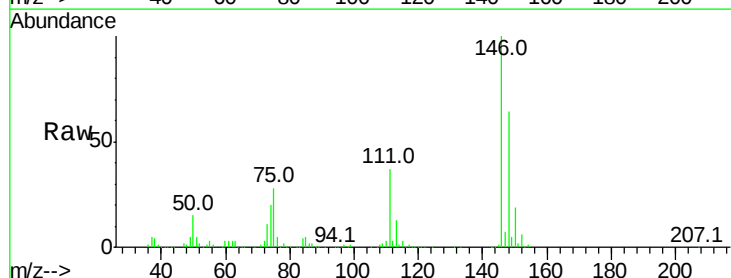
Tgt Ion:146 Resp: 209695

Ion Ratio Lower Upper

146 100

111 37.0 26.9 50.1

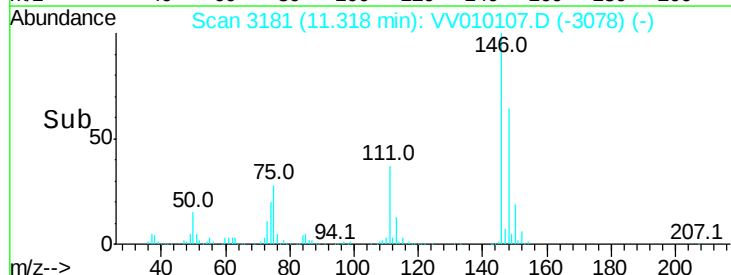
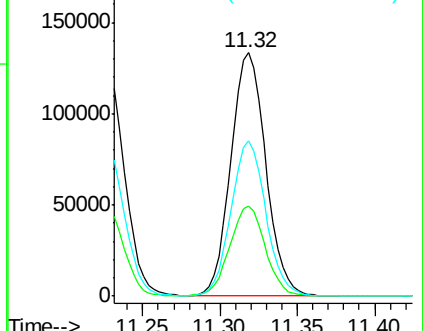
148 63.8 45.6 84.6

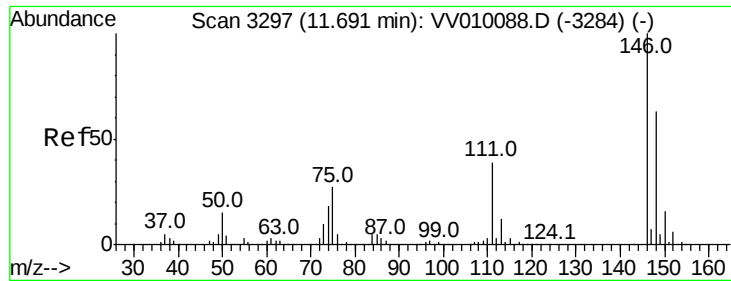


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 26.565 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

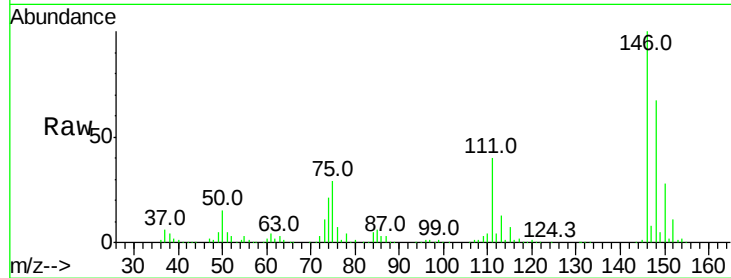
Tgt Ion:146 Resp: 194117

Ion Ratio Lower Upper

146 100

111 40.3 33.2 49.8

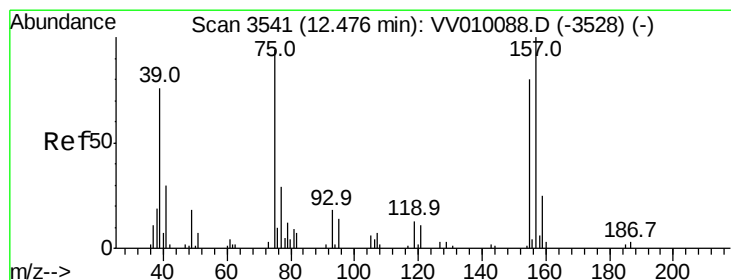
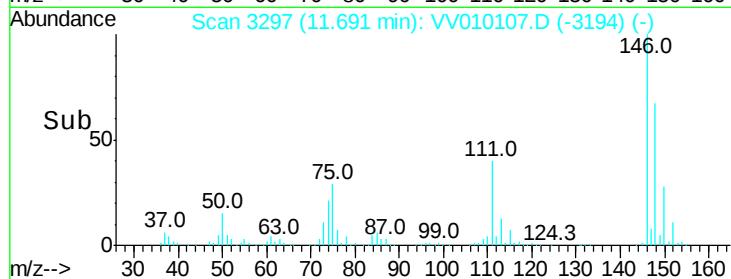
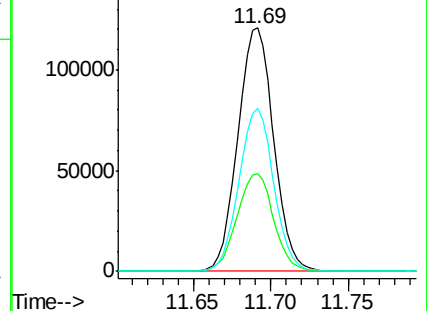
148 66.7 51.4 77.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 26.359 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

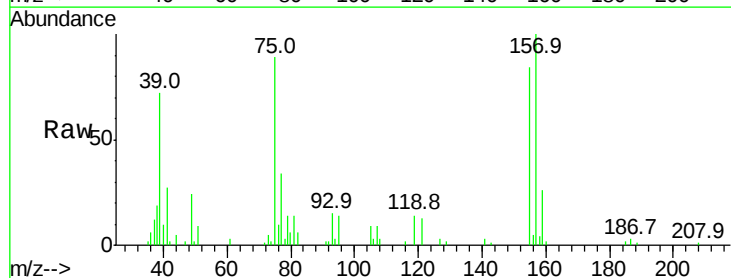
Tgt Ion: 75 Resp: 13060

Ion Ratio Lower Upper

75 100

157 112.9 83.0 124.6

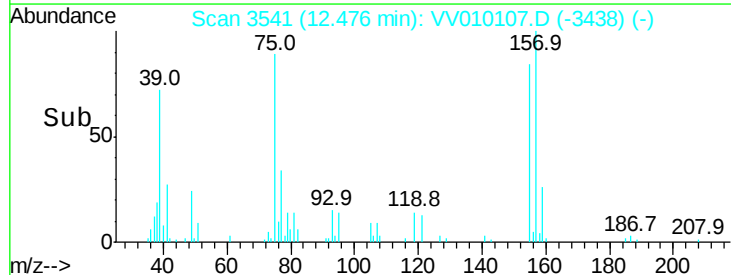
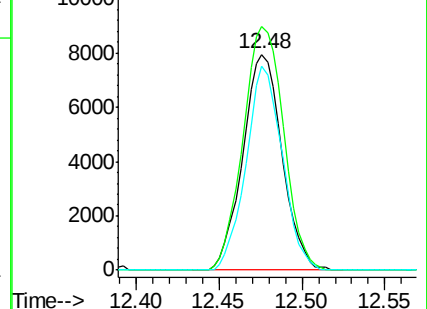
155 94.3 68.1 102.1

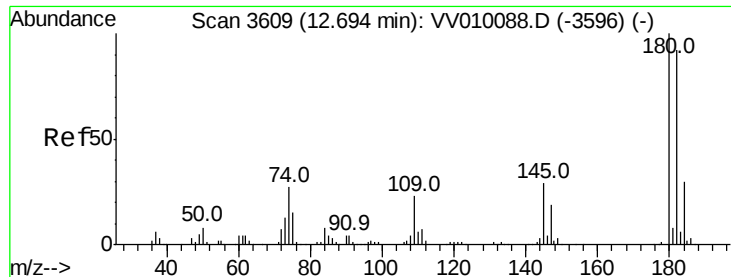


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

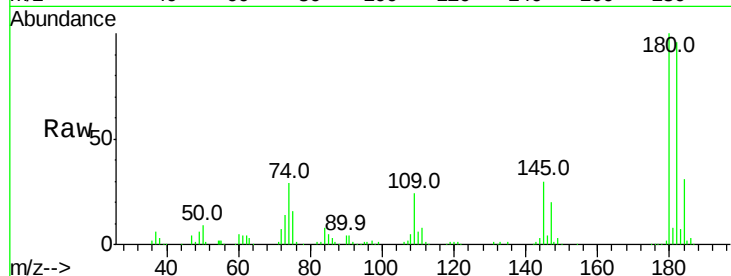




#67
 1,3,5-Trichlorobenzene
 Concen: 28.416 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02599

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.2	115.8
184	30.3	23.8	35.6
145	29.5	24.6	36.8



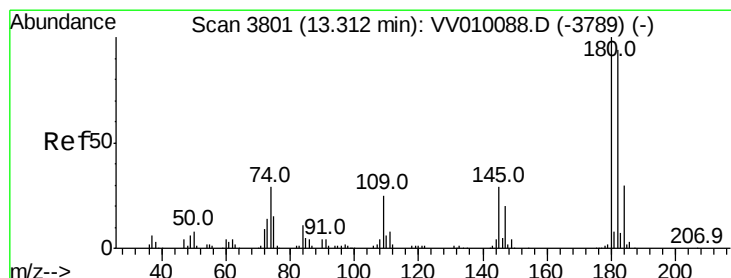
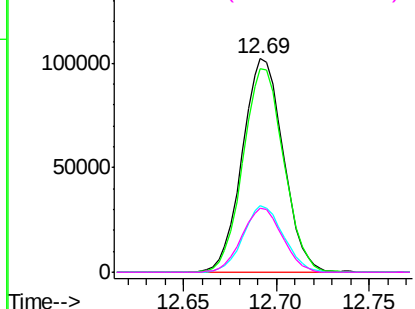
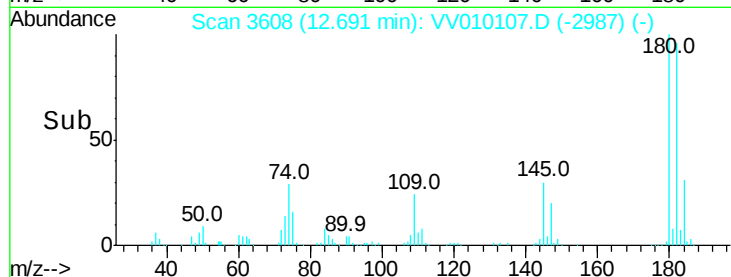
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

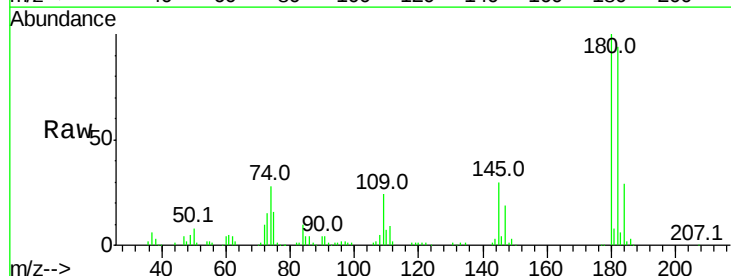
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 27.747 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV010107.D
 Acq: 04 Apr 2019 13:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	75.7	113.5
145	29.9	24.6	37.0

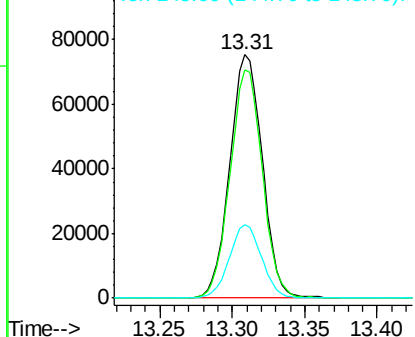
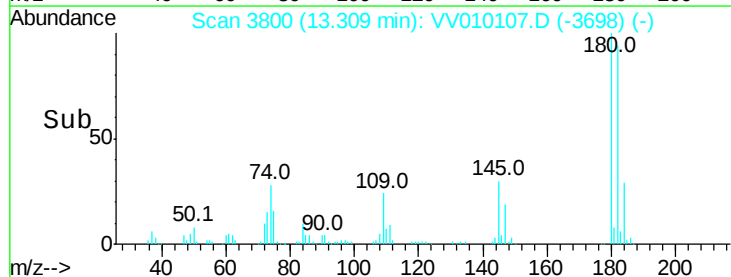


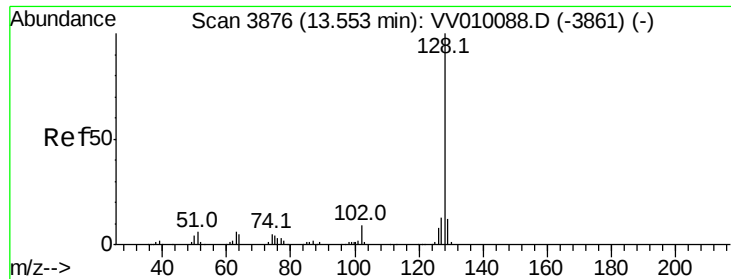
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 26.146 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD02599

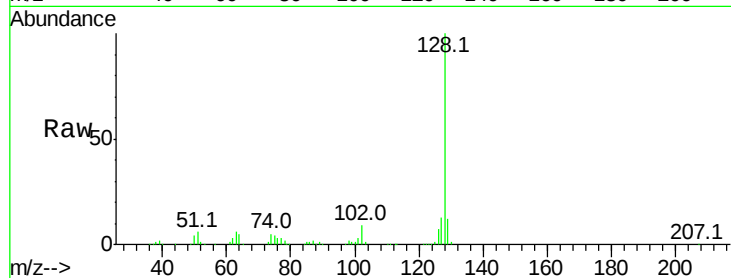
Tgt Ion:128 Resp: 183999

Ion Ratio Lower Upper

128 100

129 11.6 9.0 13.4

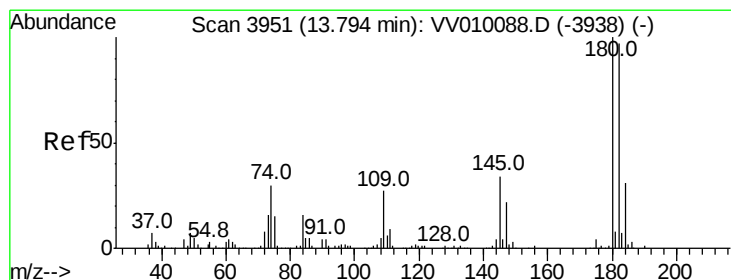
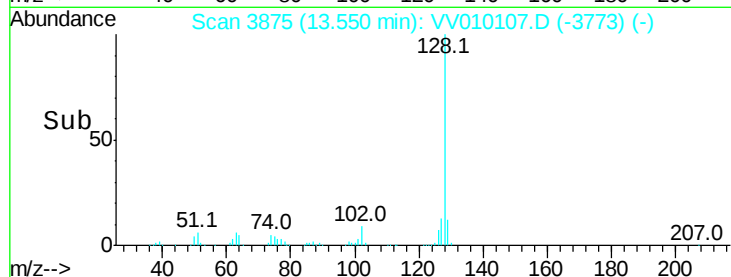
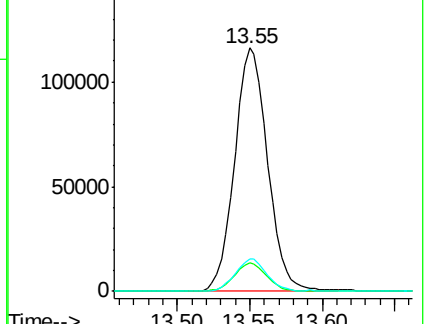
127 12.7 11.0 16.4



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: 27.590 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV010107.D

Acq: 04 Apr 2019 13:33

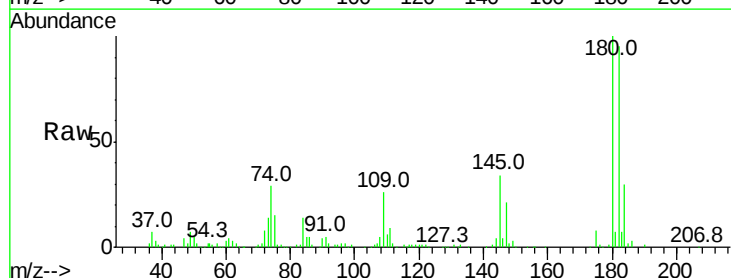
Tgt Ion:180 Resp: 108957

Ion Ratio Lower Upper

180 100

182 96.5 74.1 111.1

145 34.5 25.8 38.8



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

