

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
 Data File : VV013010.D
 Acq On : 30 Sep 2019 10:08
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

Quant Time: Oct 01 05:48:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 30 15:00:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	853139	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	810429	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	439002	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	260505	21.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.36%
7) Chloroethane-d5	1.58	69	229788	22.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.80%
11) 1,1-Dichloroethene-d2	2.13	63	475671	22.63	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	90.52%
21) 2-Butanone-d5	3.95	46	174215	40.43	ug/L	0.02
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.86%
24) Chloroform-d	4.40	84	500712	21.79	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	87.16%
26) 1,2-Dichloroethane-d4	5.08	65	269095	20.58	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	82.32%
32) Benzene-d6	5.09	84	998067	22.33	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	89.32%
36) 1,2-Dichloropropane-d6	6.11	67	309847	22.11	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	88.44%
41) Toluene-d8	7.35	98	933489	22.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.48%
43) trans-1,3-Dichloropropene-	7.66	79	126460	21.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.00%
47) 2-Hexanone-d5	8.13	63	117986	39.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	79.88%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	268938	20.52	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.08%
66) 1,2-Dichlorobenzene-d4	11.67	152	361590	21.36	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	85.44%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	265317	29.027 ug/L	100
3) Chloromethane	1.25	50	303233	26.055 ug/L	100
5) Vinyl chloride	1.32	62	317553	26.484 ug/L	98
6) Bromomethane	1.54	94	188107	24.422 ug/L	100
8) Chloroethane	1.60	64	197985	26.125 ug/L	98
9) Trichlorofluoromethane	1.77	101	427354	26.313 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	267270	25.674 ug/L	98
12) 1,1-Dichloroethene	2.14	96	244048	24.960 ug/L	96
13) Acetone	2.22	43	201699	44.406 ug/L	99
14) Carbon disulfide	2.32	76	756564	25.212 ug/L	98
15) Methyl Acetate	2.47	43	143467	20.468 ug/L	99
16) Methylene chloride	2.53	84	288597	20.654 ug/L	99
17) trans-1,2-Dichloroethene	2.79	96	282099	24.475 ug/L	98
18) Methyl tert-butyl Ether	2.80	73	637197	21.978 ug/L	99
19) 1,1-Dichloroethane	3.23	63	516983	24.440 ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	299534	23.366 ug/L	99
22) 2-Butanone	4.04	43	219441	44.077 ug/L	94

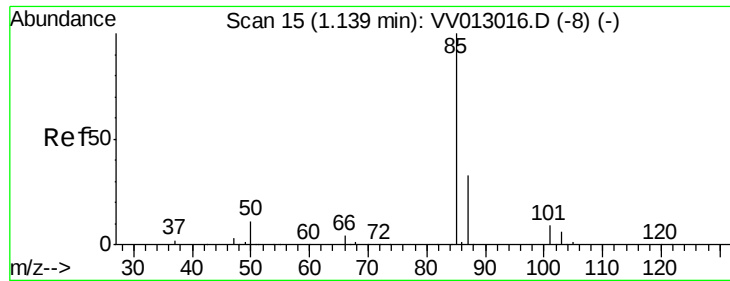
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	140487	22.354	ug/L	98
25) Chloroform	4.42	83	517250	23.454	ug/L	99
27) 1,2-Dichloroethane	5.17	62	340769	22.478	ug/L	99
29) Cyclohexane	4.72	56	475610	26.658	ug/L	100
30) 1,1,1-Trichloroethane	4.65	97	430001	25.976	ug/L	99
31) Carbon tetrachloride	4.87	117	389089	26.111	ug/L	98
33) Benzene	5.14	78	1160492	25.046	ug/L	100
34) Trichloroethene	5.96	95	316329	25.201	ug/L	100
35) Methylcyclohexane	6.17	83	525956	26.696	ug/L	99
37) 1,2-Dichloropropane	6.22	63	290734	24.454	ug/L	99
38) Bromodichloromethane	6.55	83	372653	24.012	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	439706	24.563	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	406657	42.797	ug/L	98
42) Toluene	7.43	91	1272100	25.814	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	355455	24.183	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	226929	22.501	ug/L	100
46) Tetrachloroethene	8.02	164	266019	25.614	ug/L	98
48) 2-Hexanone	8.18	43	308750	44.629	ug/L	98
49) Dibromochloromethane	8.29	129	270479	23.519	ug/L	99
50) 1,2-Dibromoethane	8.39	107	223891	22.503	ug/L	98
51) Chlorobenzene	8.92	112	823982	24.651	ug/L	100
52) Ethylbenzene	9.05	91	1411956	26.082	ug/L	100
53) m,p-Xylene	9.18	106	547682	26.466	ug/L	98
54) o-Xylene	9.58	106	513801	25.952	ug/L	99
55) Styrene	9.60	104	903692	26.072	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.28	83	270688	22.012	ug/L	98
59) Bromoform	9.77	173	169424	22.532	ug/L	100
60) Isopropylbenzene	9.97	105	1401607	26.492	ug/L	100
61) 1,2,3-Trichloropropane	10.32	75	212276	21.243	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	1156390	27.128	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	1145148	26.751	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	684227	24.639	ug/L	100
65) 1,4-Dichlorobenzene	11.32	146	693321	23.774	ug/L	98
67) 1,2-Dichlorobenzene	11.69	146	630739	23.788	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.47	75	44473	20.519	ug/L	98
69) 1,3,5-Trichlorobenzene	12.69	180	539574	24.133	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	455412	23.557	ug/L	98
71) Naphthalene	13.55	128	834205	22.152	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	436130	23.388	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 29.027 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

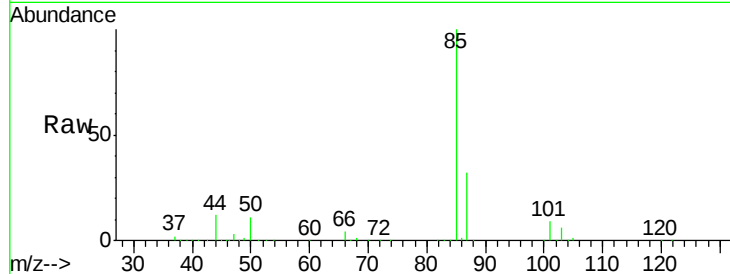
VSTD02577

Tot Ion: 85 Resp: 265317

Ion Ratio Lower Upper

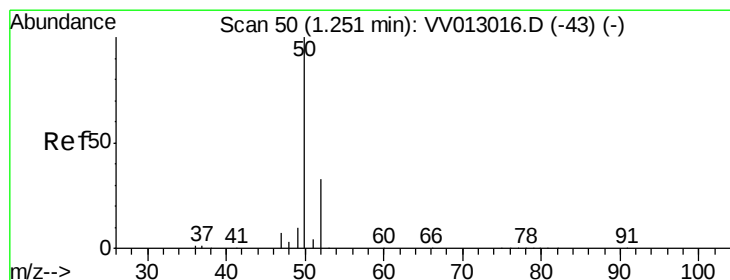
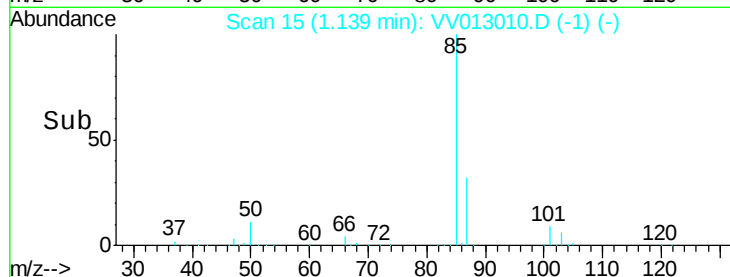
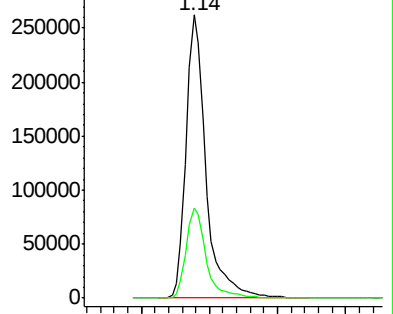
85 100

87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 26.055 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013010.D

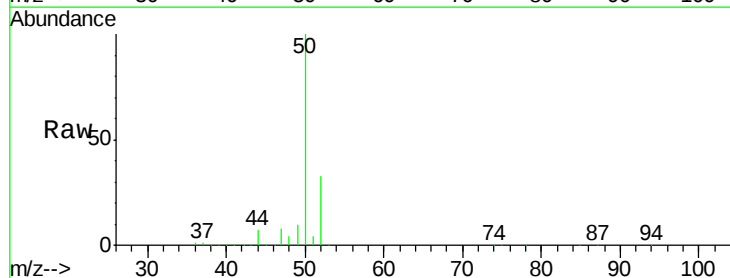
Acq: 30 Sep 2019 10:08

Tgt Ion: 50 Resp: 303233

Ion Ratio Lower Upper

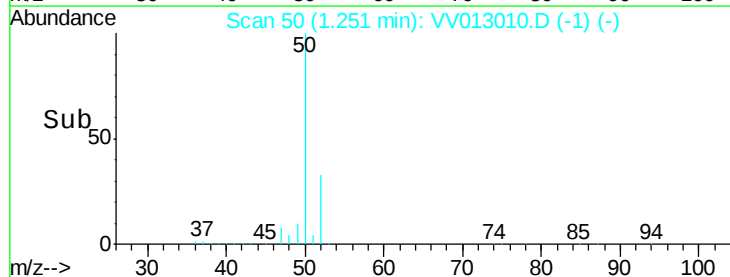
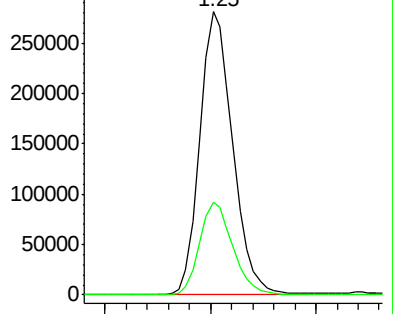
50 100

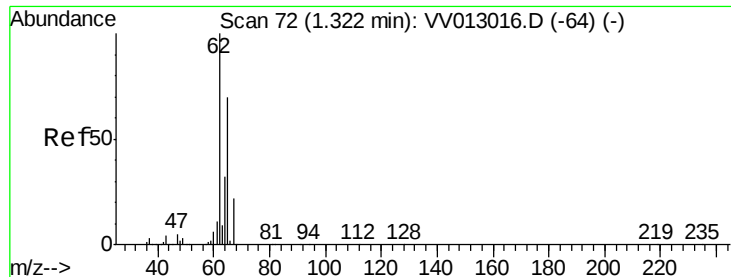
52 32.9 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 26.484 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

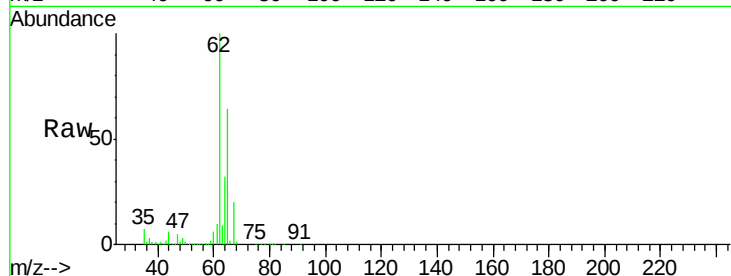
VSTD02577

Tot Ion: 62 Resp: 317553

Ion Ratio Lower Upper

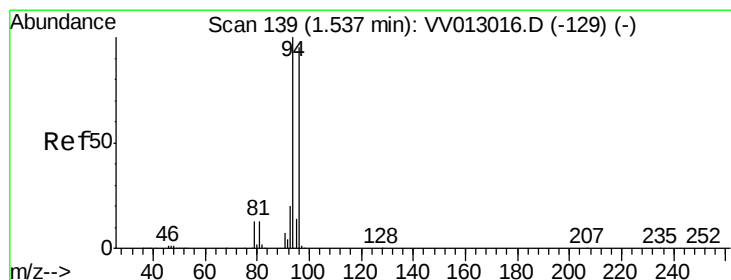
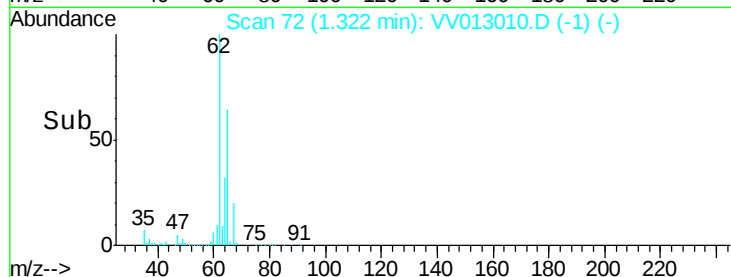
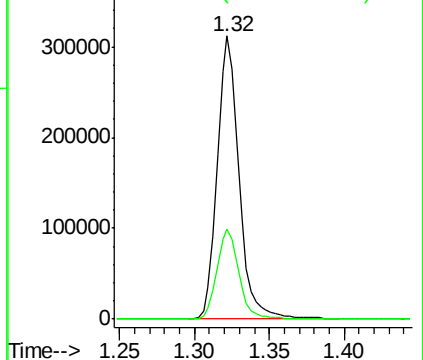
62 100

64 32.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 24.422 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV013010.D

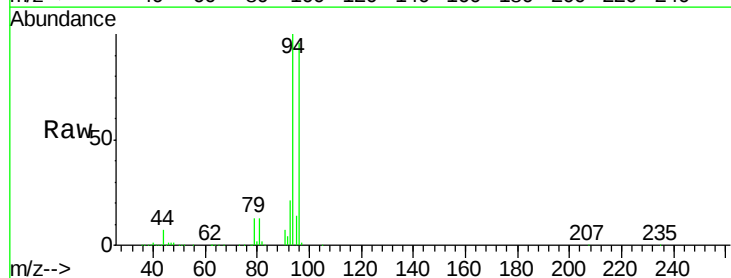
Acq: 30 Sep 2019 10:08

Tgt Ion: 94 Resp: 188107

Ion Ratio Lower Upper

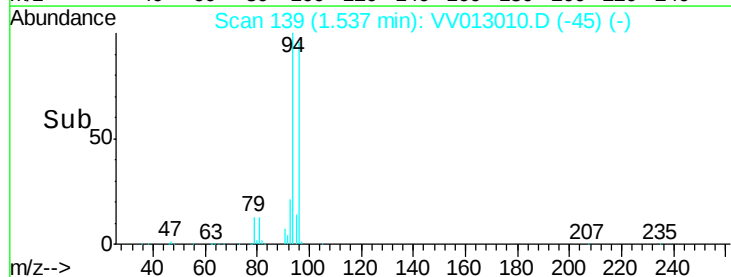
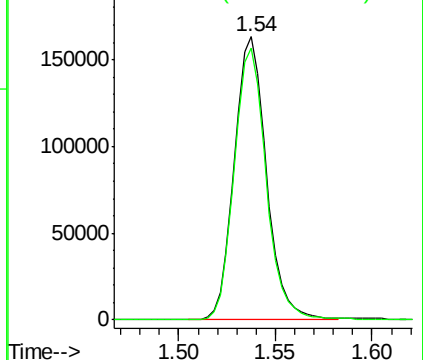
94 100

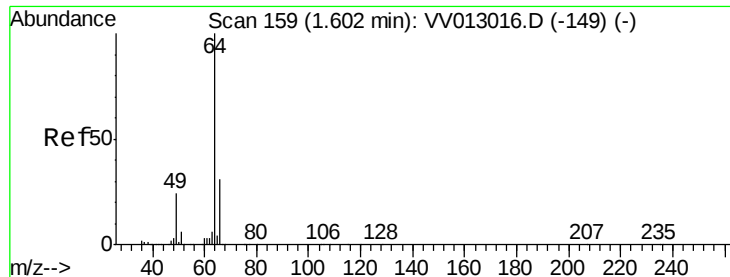
96 95.9 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 26.125 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

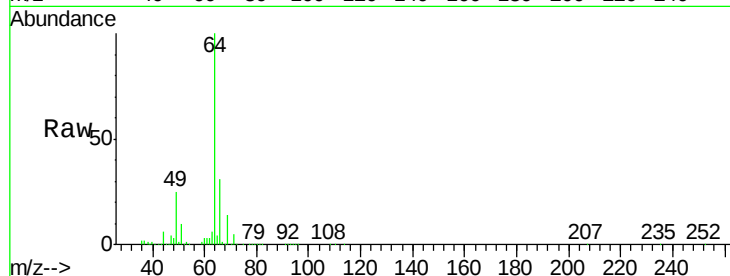
VSTD02577

Tot Ion: 64 Resp: 197985

Ion Ratio Lower Upper

64 100

66 31.5 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV0

Ion 66.00 (65.70 to 66.70): VV0

1.60

200000

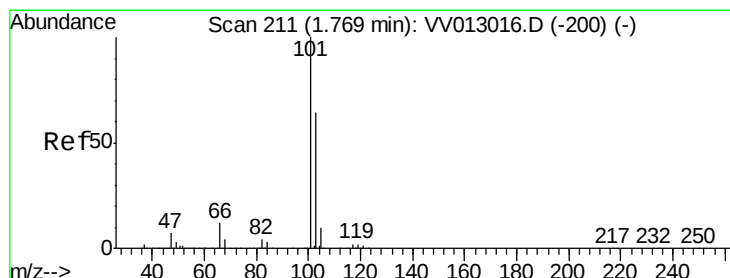
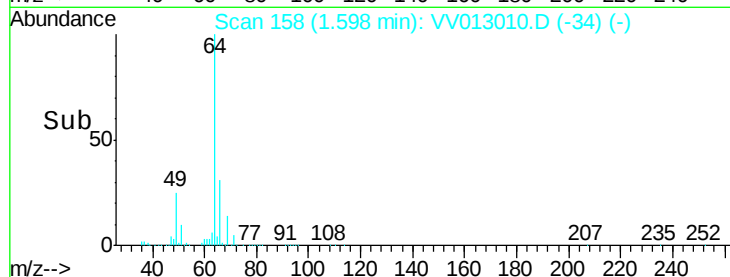
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 26.313 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV013010.D

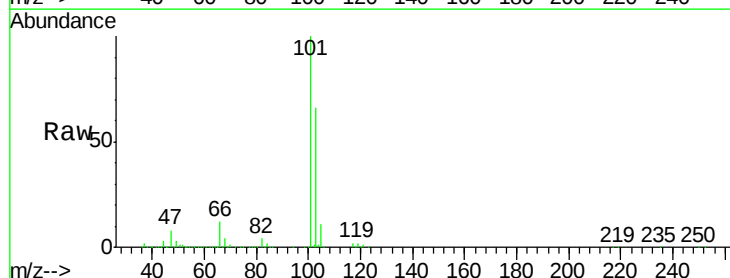
Acq: 30 Sep 2019 10:08

Tgt Ion: 101 Resp: 427354

Ion Ratio Lower Upper

101 100

103 64.8 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

1.77

400000

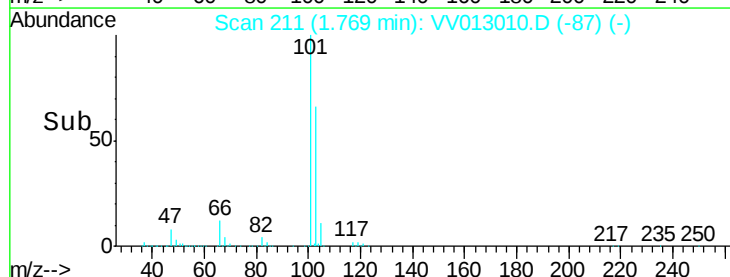
300000

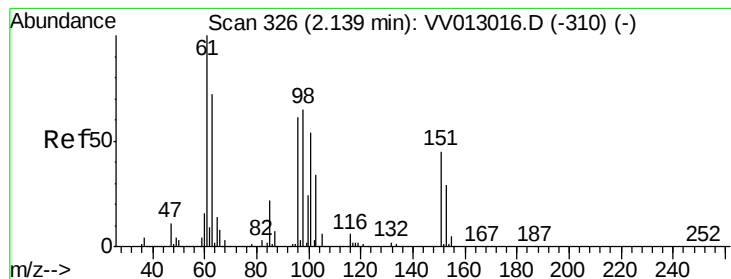
200000

100000

0

Time-->





#10

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

Concen: 25.674 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

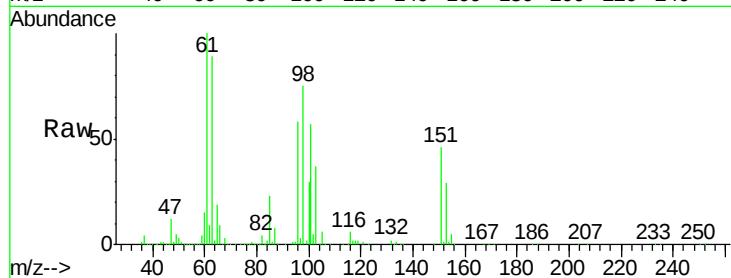
Tot Ion:101 Resp: 267270

Ion Ratio Lower Upper

101 100

85 40.9 33.6 50.4

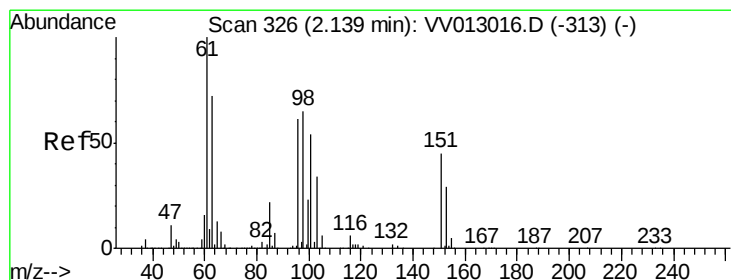
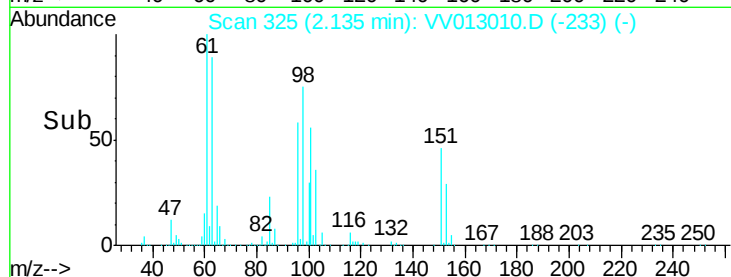
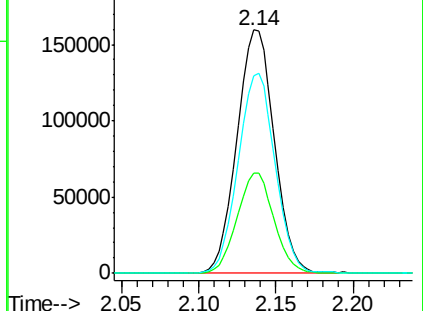
151 81.8 66.9 100.3



Abundance Ion 101.00 (100.70 to 101.70): VV013010.D (-233) (-)

Ion 85.00 (84.70 to 85.70): VV013010.D (-233) (-)

Ion 151.00 (150.70 to 151.70): VV013010.D (-233) (-)



#12

1,1-Dichloroethene

Concen: 24.960 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

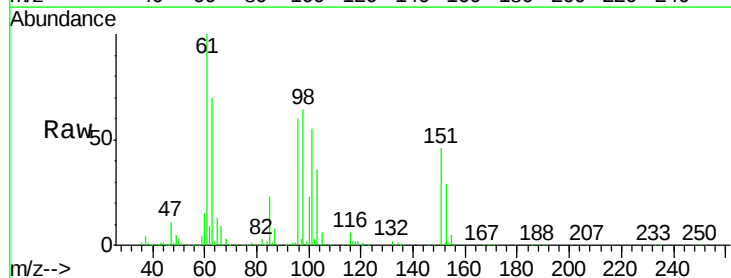
Tgt Ion: 96 Resp: 244048

Ion Ratio Lower Upper

96 100

61 168.1 117.7 218.7

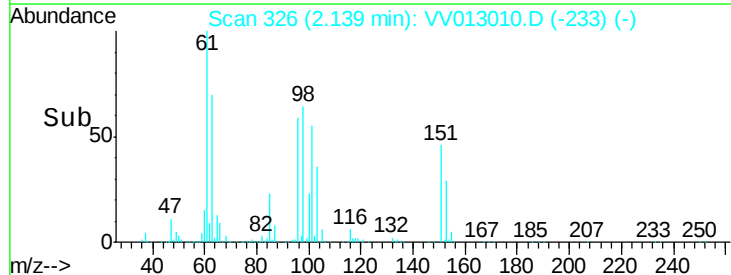
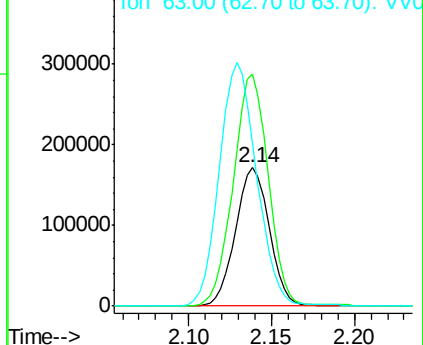
63 117.7 90.4 168.0

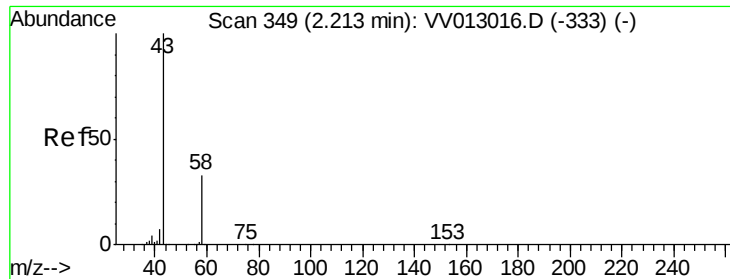


Abundance Ion 96.00 (95.70 to 96.70): VV013010.D (-233) (-)

Ion 61.00 (60.70 to 61.70): VV013010.D (-233) (-)

Ion 63.00 (62.70 to 63.70): VV013010.D (-233) (-)





#13

Acetone

Concen: 44.406 ug/L

RT: 2.22 min Scan# 350

Delta R.T. 0.01 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

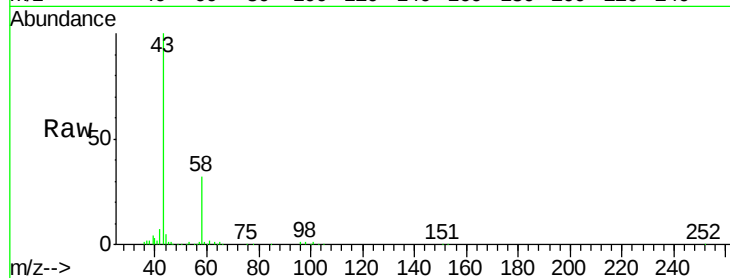
VSTD02577

Tot Ion: 43 Resp: 201699

Ion Ratio Lower Upper

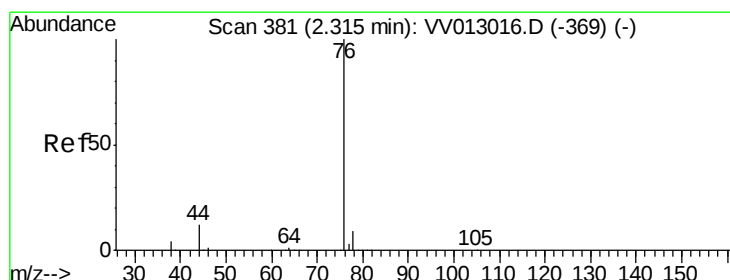
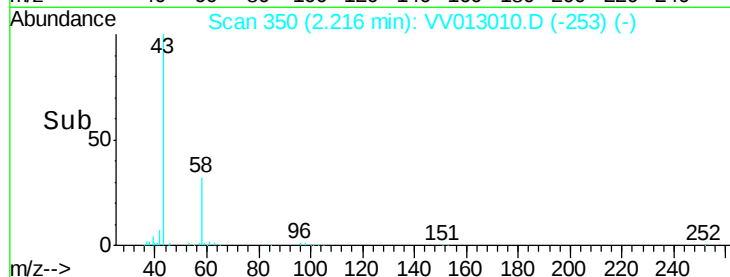
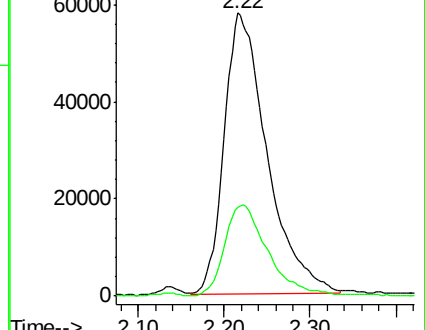
43 100

58 31.9 0.0 65.2



Abundance Ion 43.00 (42.70 to 43.70): VV013010.D (-353) (-)

Ion 58.00 (57.70 to 58.70): VV013010.D (-353) (-)



#14

Carbon disulfide

Concen: 25.212 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV013010.D

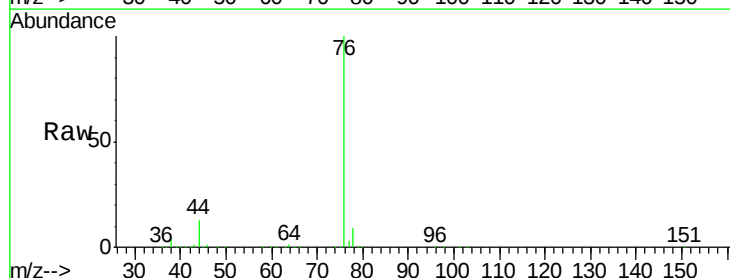
Acq: 30 Sep 2019 10:08

Tgt Ion: 76 Resp: 756564

Ion Ratio Lower Upper

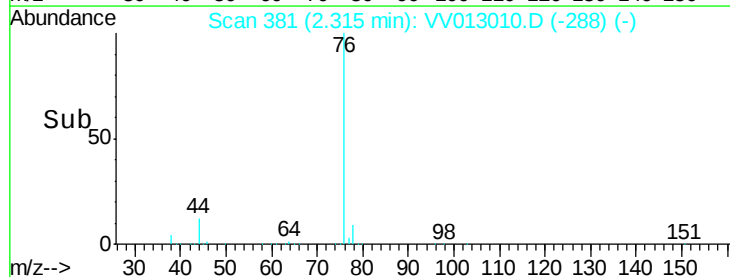
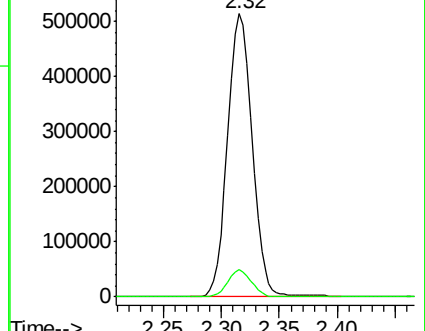
76 100

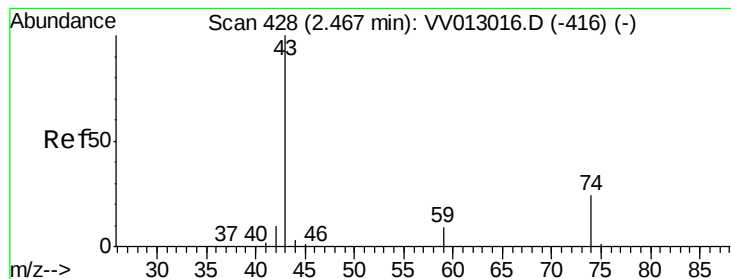
78 9.5 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV013010.D (-288) (-)

Ion 78.00 (77.70 to 78.70): VV013010.D (-288) (-)





#15

Methvl Acetate

Concen: 20.468 ug/L

RT: 2.47 min Scan# 429

Delta R.T. 0.01 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

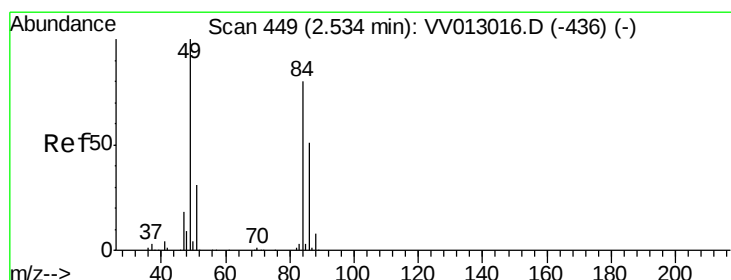
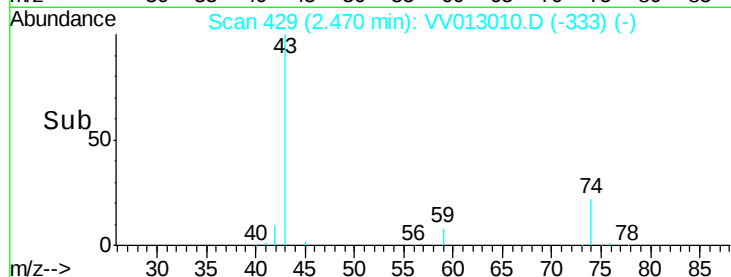
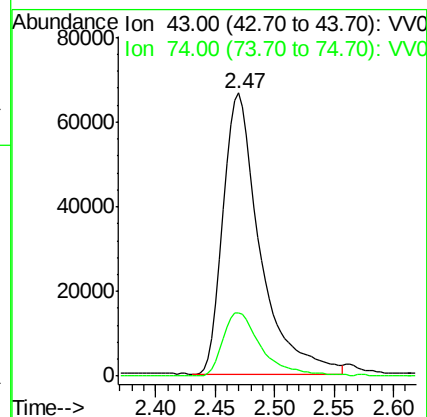
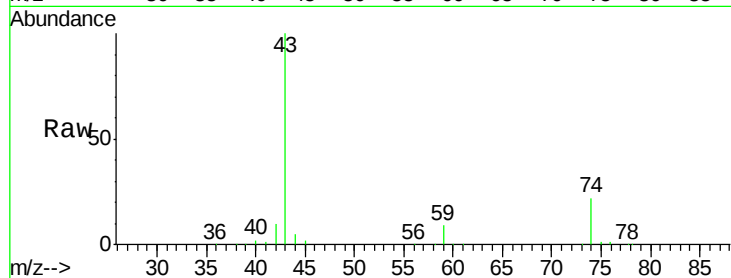
VSTD02577

Tot Ion: 43 Resp: 143467

Ion Ratio Lower Upper

43 100

74 23.6 18.5 27.7



#16

Methylene chloride

Concen: 20.654 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

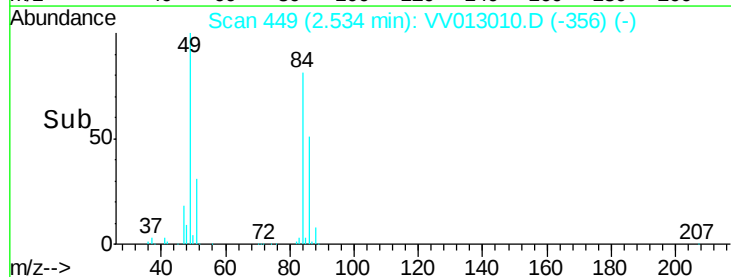
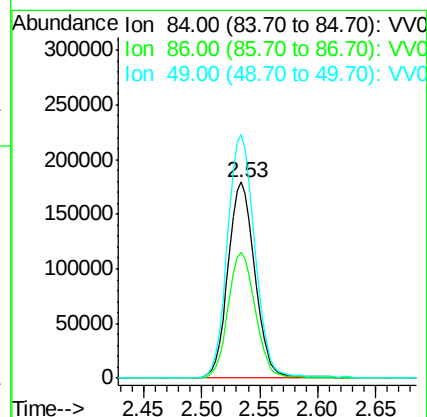
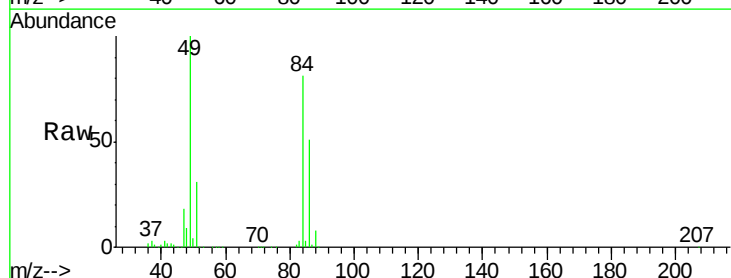
Tgt Ion: 84 Resp: 288597

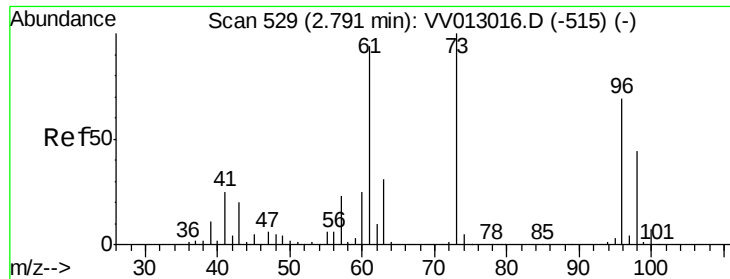
Ion Ratio Lower Upper

84 100

86 63.9 44.5 82.7

49 124.1 87.5 162.5

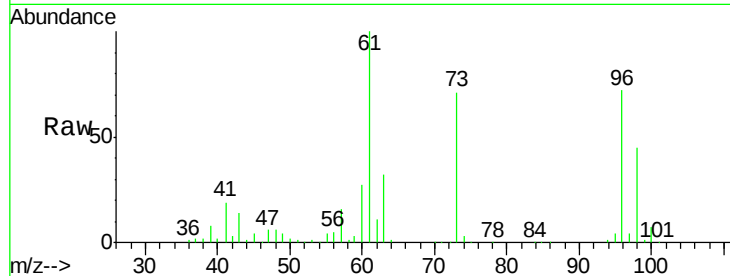




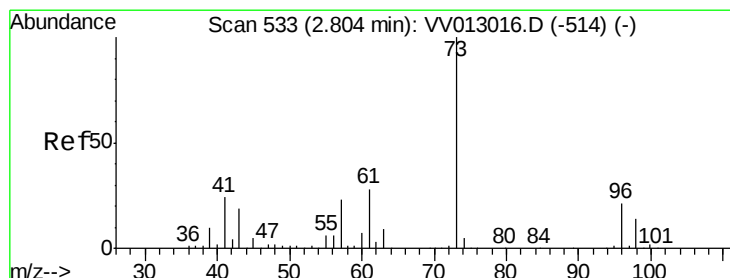
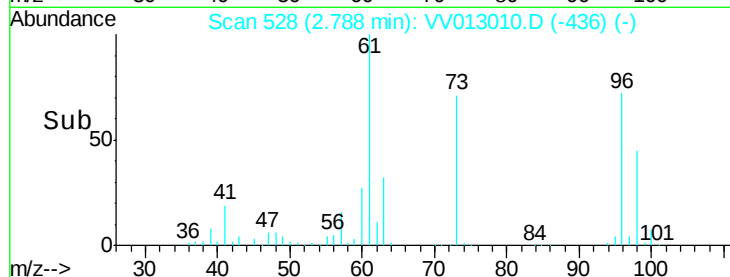
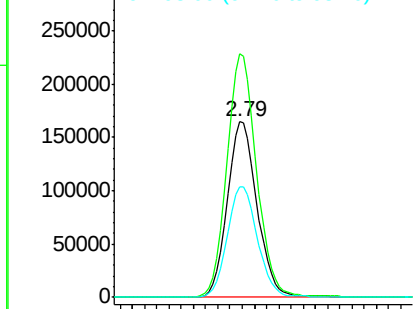
#17
trans-1,2-Dichloroethene
Concen: 24.475 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV013010.D
Acq: 30 Sep 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tot Ion: 96 Resp: 282099
Ion Ratio Lower Upper
96 100
61 139.0 95.8 177.8
98 63.2 45.1 83.7

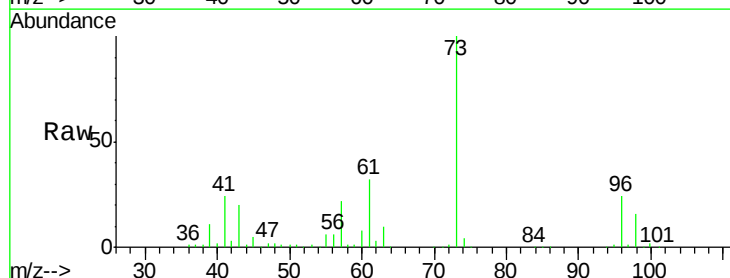


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

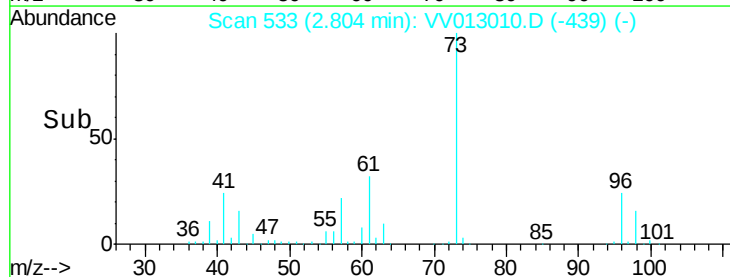
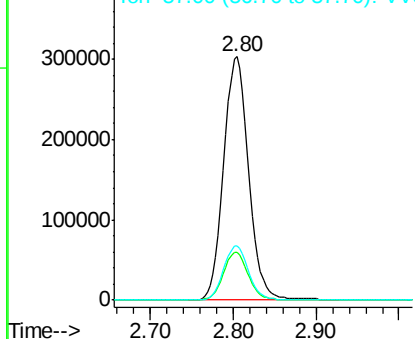


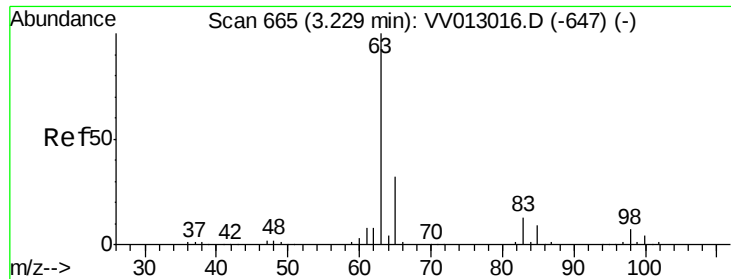
#18
Methyl tert-butyl Ether
Concen: 21.978 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV013010.D
Acq: 30 Sep 2019 10:08

Tgt Ion: 73 Resp: 637197
Ion Ratio Lower Upper
73 100
43 19.1 15.1 22.7
57 22.2 18.1 27.1



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

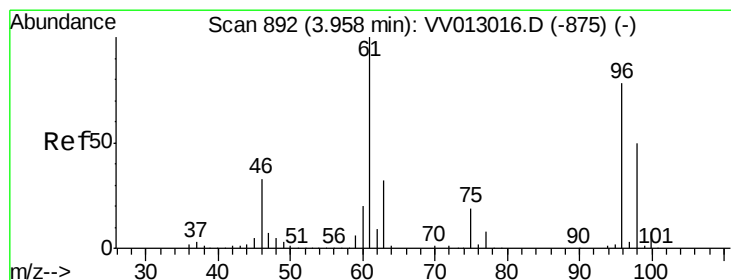
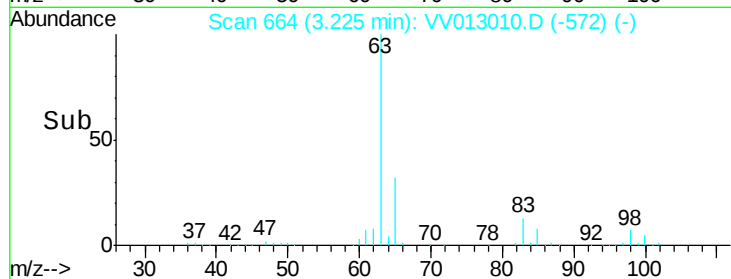
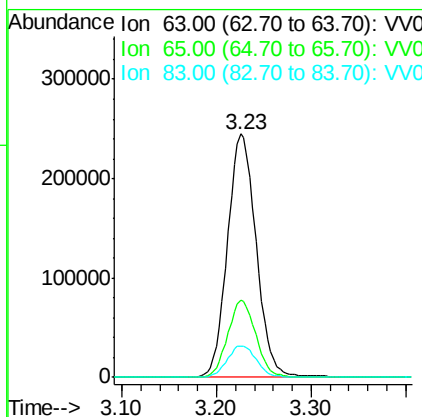
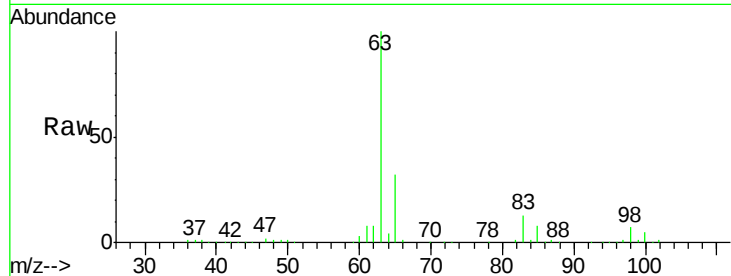




#19
 1,1-Dichloroethane
 Concen: 24.440 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

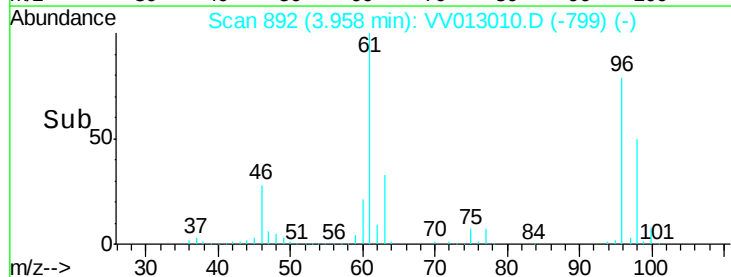
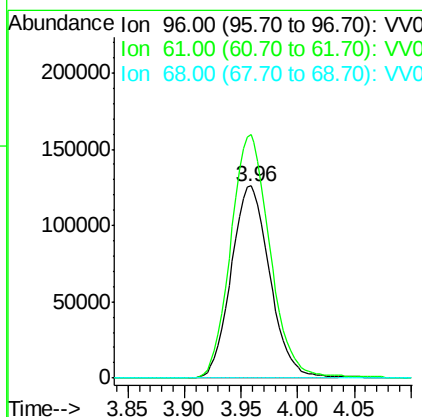
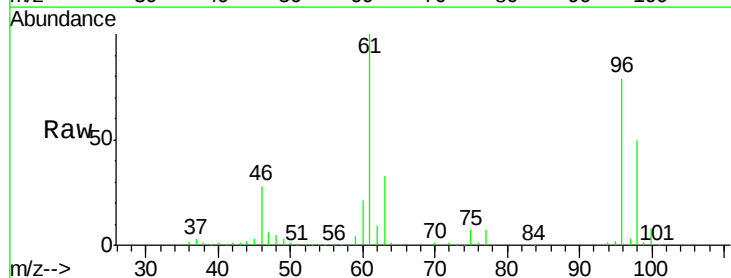
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

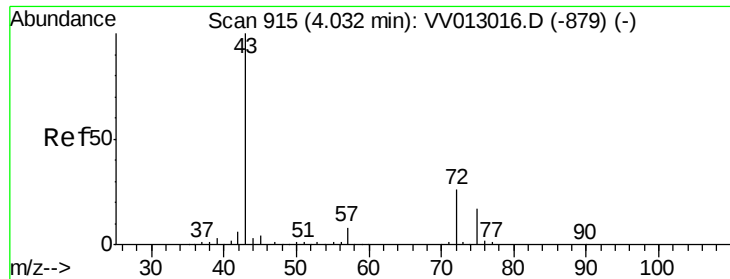
Tot Ion: 63 Resp: 516983
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.4 41.6
 83 12.9 9.0 16.6



#20
 cis-1,2-Dichloroethene
 Concen: 23.366 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Tgt Ion: 96 Resp: 299534
 Ion Ratio Lower Upper
 96 100
 61 126.7 89.5 166.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 44.077 ug/L

RT: 4.04 min Scan# 916

Delta R.T. 0.01 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

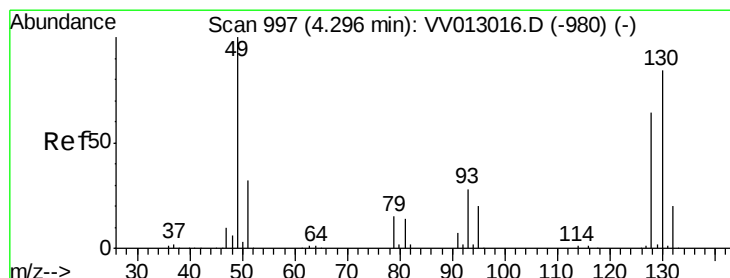
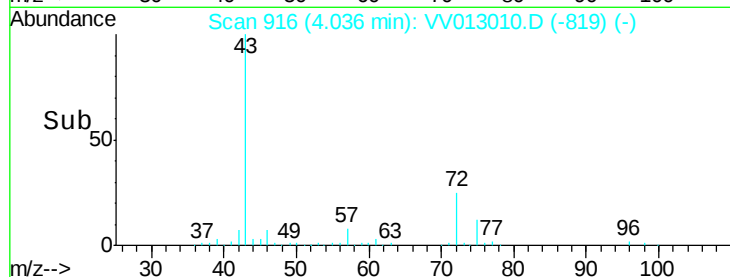
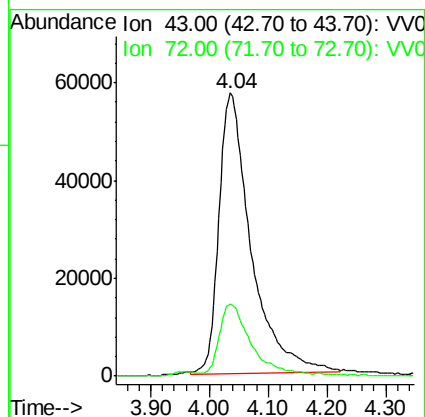
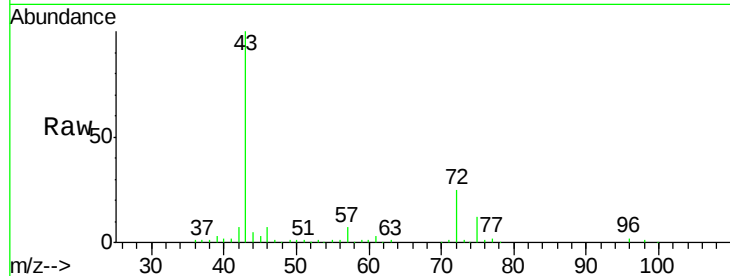
VSTD02577

Tot Ion: 43 Resp: 219441

Ion Ratio Lower Upper

43 100

72 21.3 12.0 36.1



#23

Bromochloromethane

Concen: 22.354 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Tgt Ion: 128 Resp: 140487

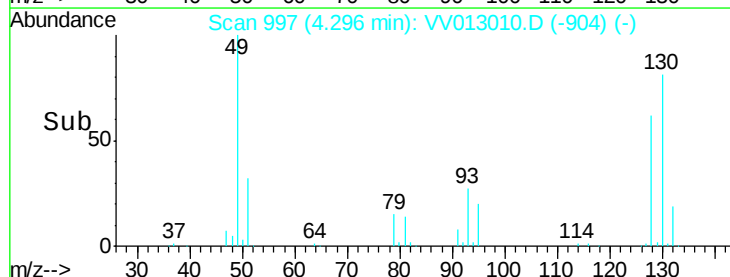
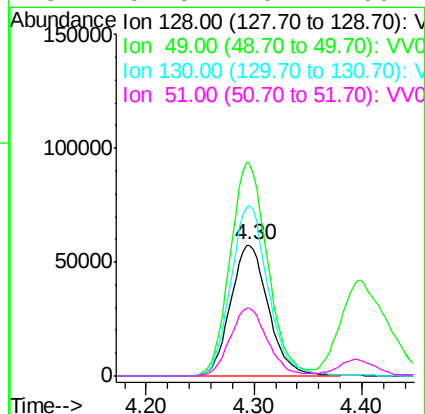
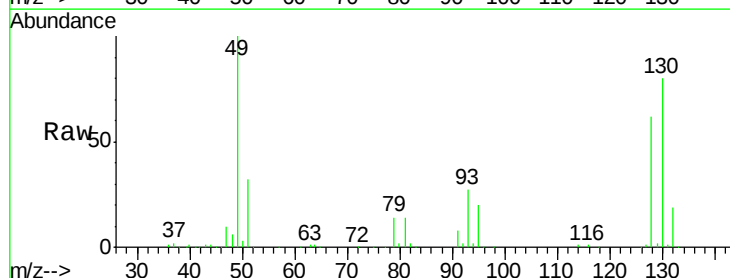
Ion Ratio Lower Upper

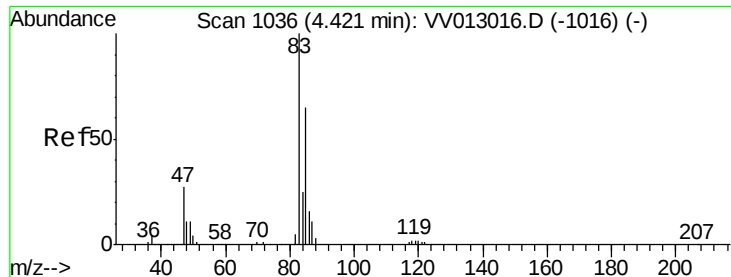
128 100

49 162.1 113.6 211.0

130 130.4 88.0 163.4

51 51.5 40.2 60.2





#25

Chloroform

Concen: 23.454 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

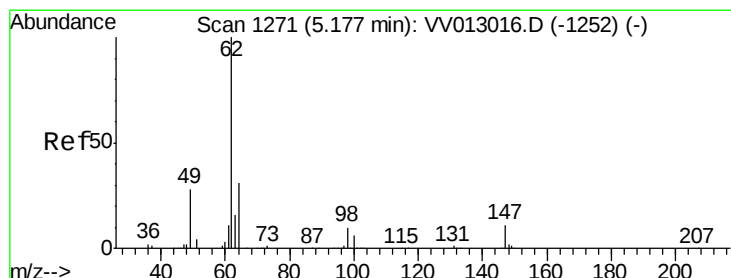
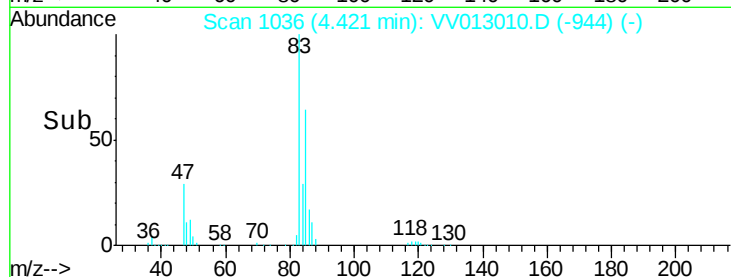
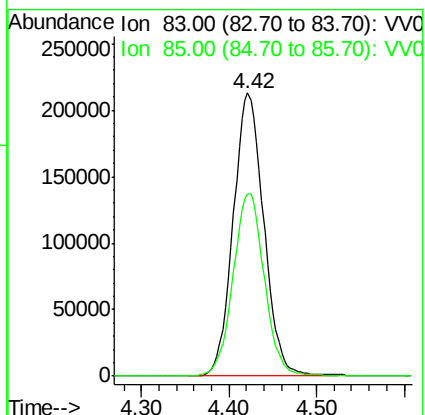
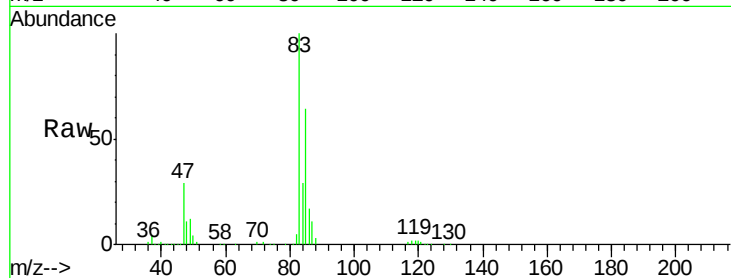
VSTD02577

Tot Ion: 83 Resp: 517250

Ion Ratio Lower Upper

83 100

85 64.4 44.7 82.9



#27

1,2-Dichloroethane

Concen: 22.478 ug/L

RT: 5.17 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VV013010.D

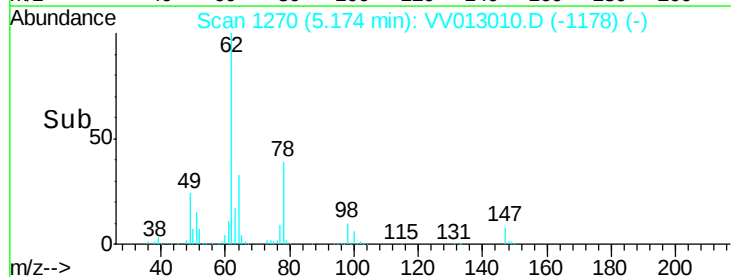
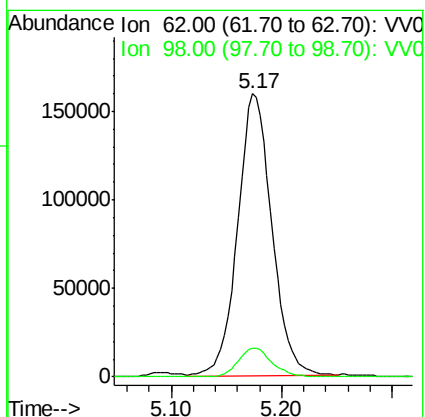
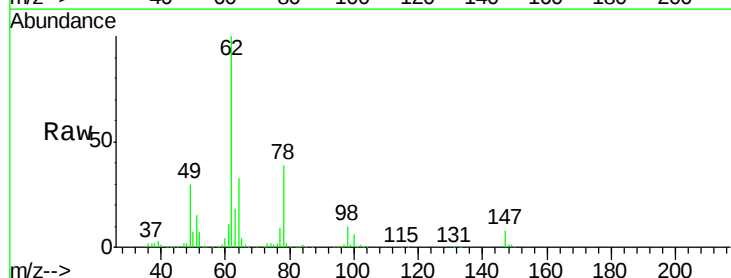
Acq: 30 Sep 2019 10:08

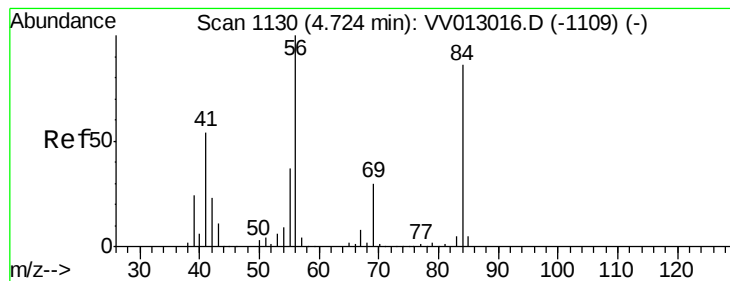
Tgt Ion: 62 Resp: 340769

Ion Ratio Lower Upper

62 100

98 10.3 8.5 12.7





#29

Cyclohexane

Concen: 26.658 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

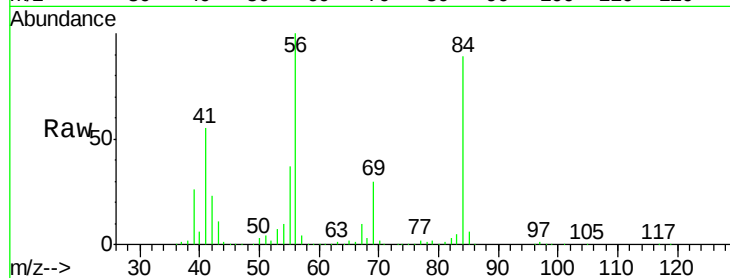
Tot Ion: 56 Resp: 475610

Ion Ratio Lower Upper

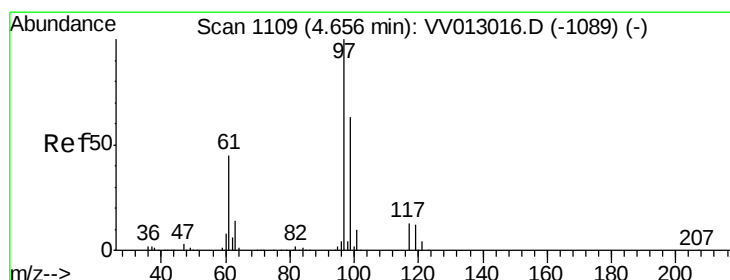
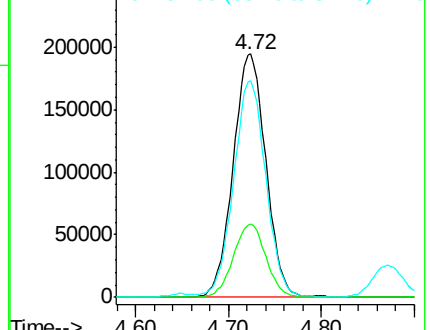
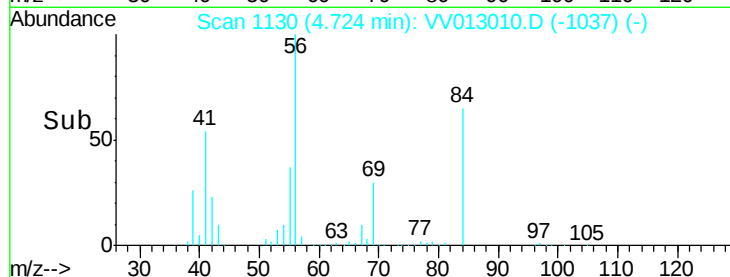
56 100

69 30.1 24.2 36.4

84 87.3 69.6 104.4



Abundance Ion 56.00 (55.70 to 56.70): VV013010.D (-1037) (-)



#30

1,1,1-Trichloroethane

Concen: 25.976 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

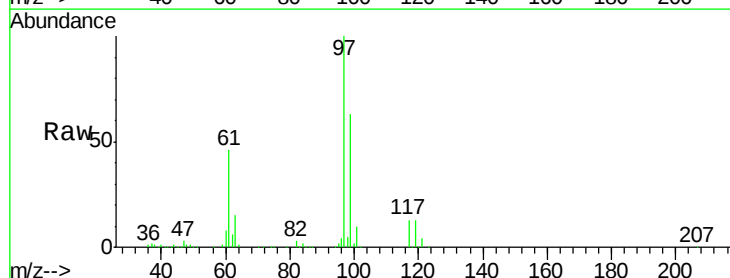
Tgt Ion: 97 Resp: 430001

Ion Ratio Lower Upper

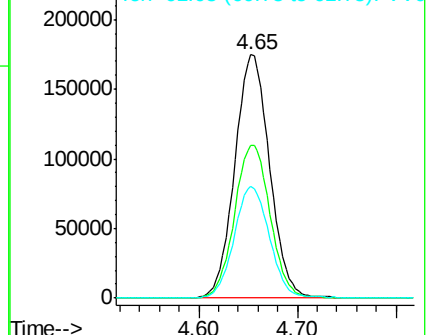
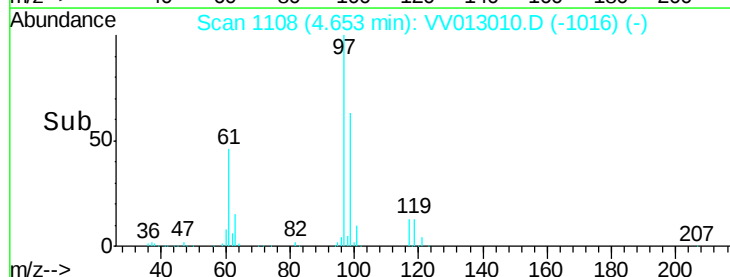
97 100

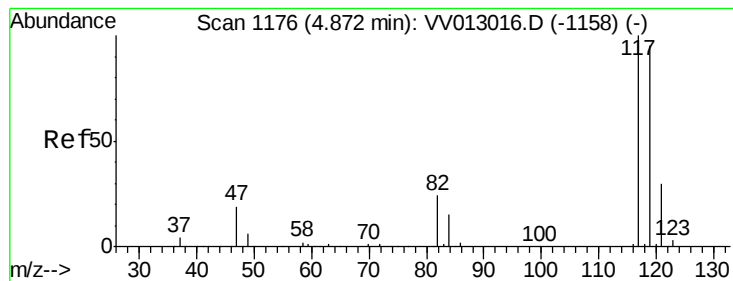
99 63.9 51.7 77.5

61 46.3 36.1 54.1



Abundance Ion 97.00 (96.70 to 97.70): VV013010.D (-1016) (-)





#31

Carbon tetrachloride

Concen: 26.111 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

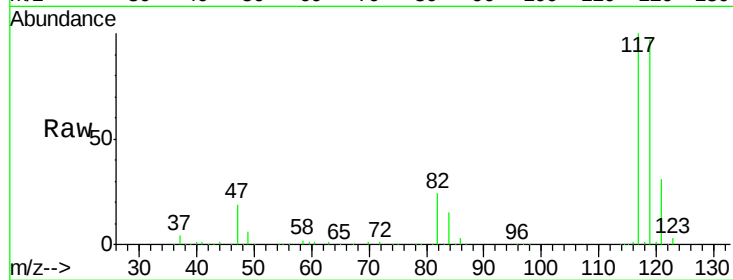
VSTD02577

Tot Ion:117 Resp: 389089

Ion Ratio Lower Upper

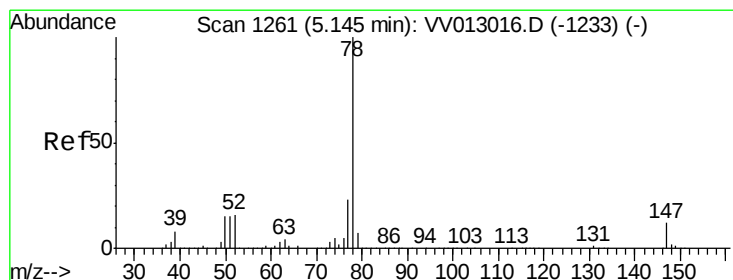
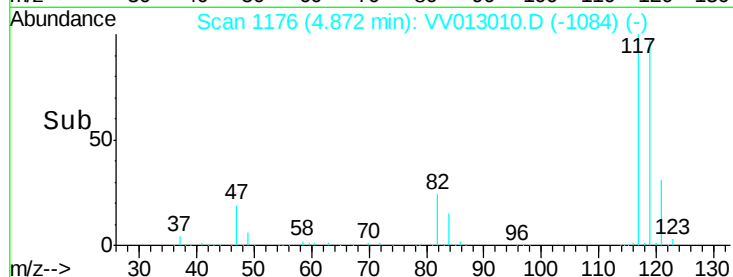
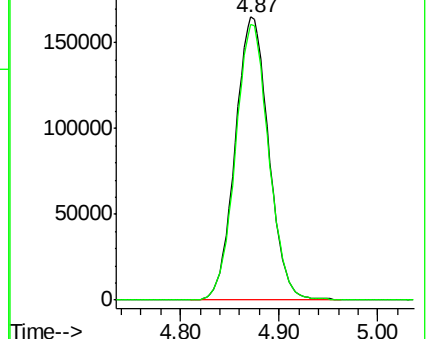
117 100

119 96.7 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 25.046 ug/L

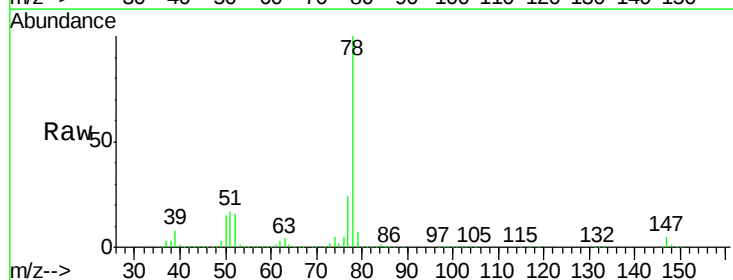
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

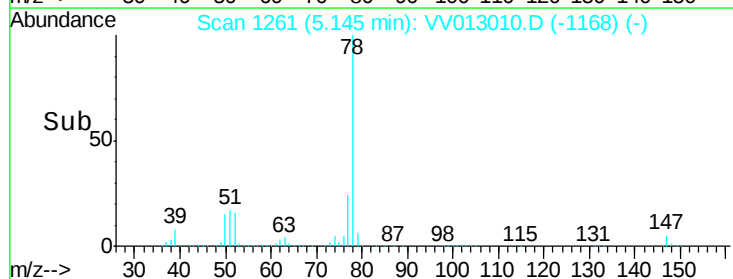
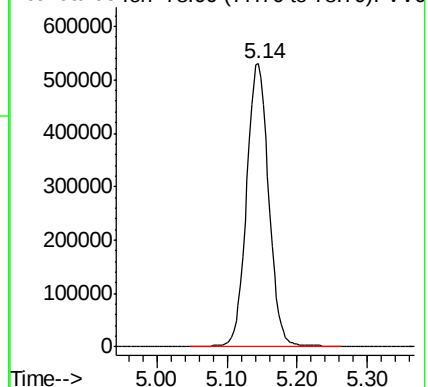
Lab File: VV013010.D

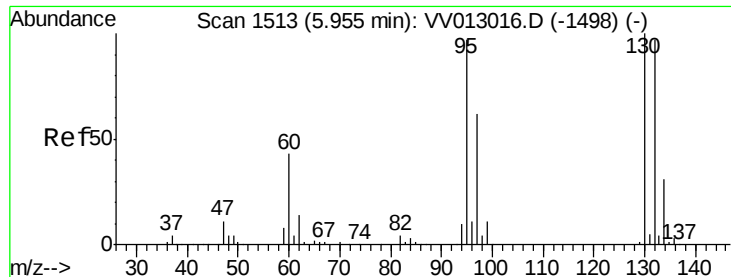
Acq: 30 Sep 2019 10:08

Tgt Ion: 78 Resp: 1160492



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 25.201 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampled :

VSTD02577

Tot Ion: 95 Resp: 316329

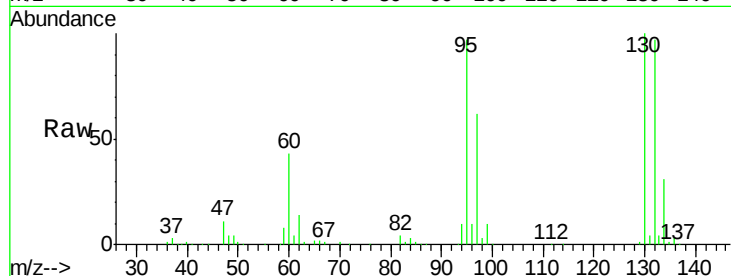
Ion Ratio Lower Upper

95 100

97 63.9 45.4 84.2

132 100.2 70.1 130.3

130 103.3 72.4 134.4

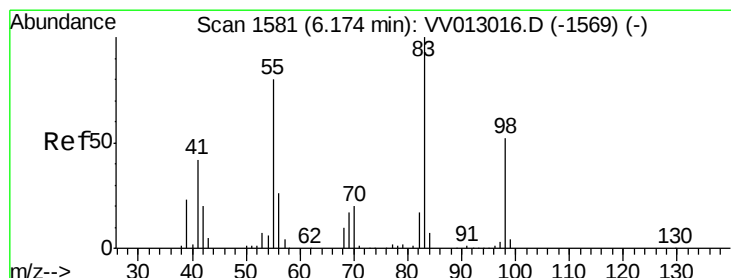
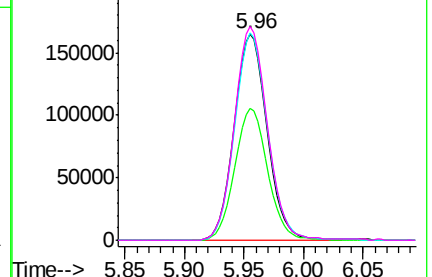
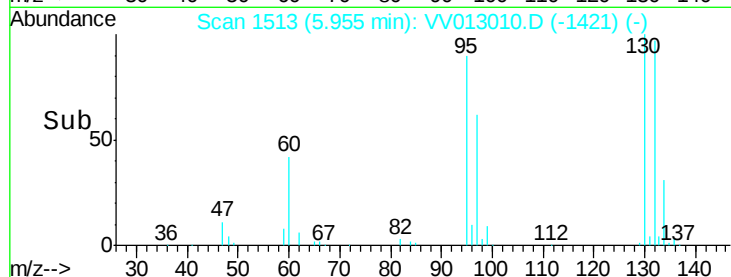


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 26.696 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

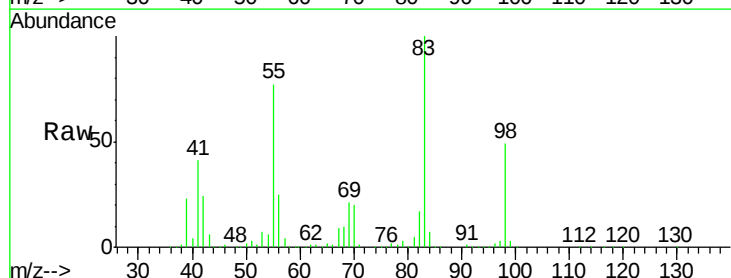
Tgt Ion: 83 Resp: 525956

Ion Ratio Lower Upper

83 100

55 76.9 61.9 92.9

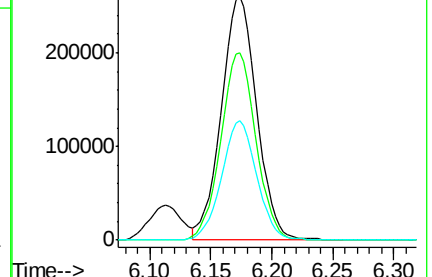
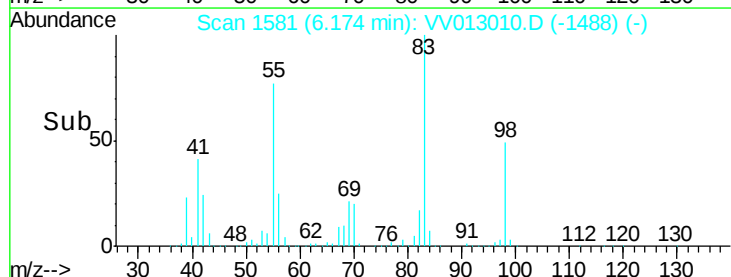
98 48.8 40.0 60.0

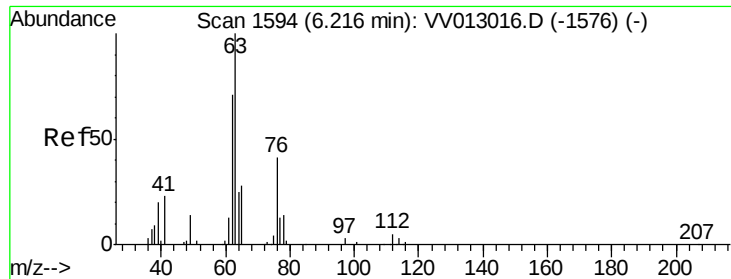


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 24.454 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

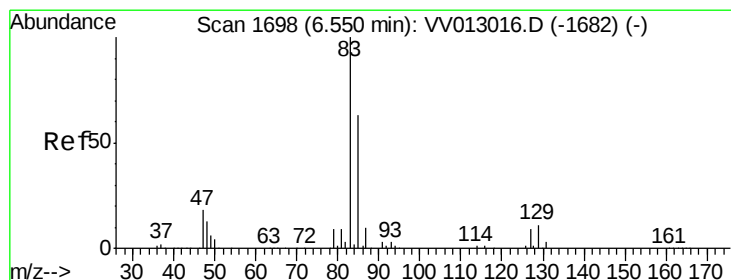
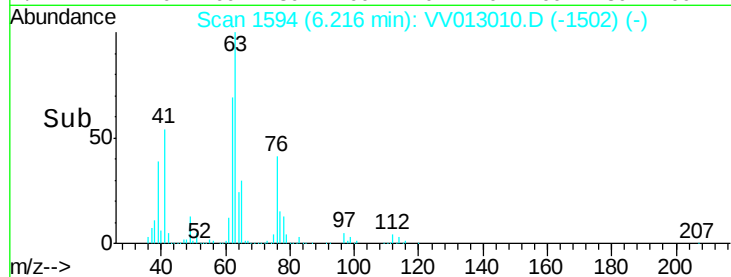
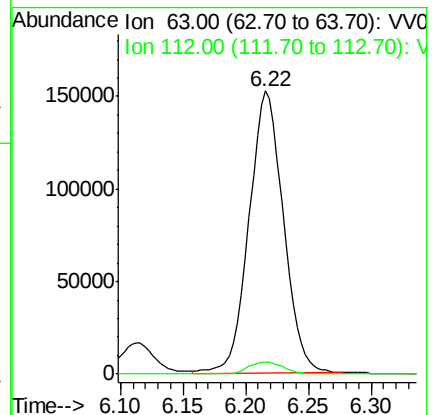
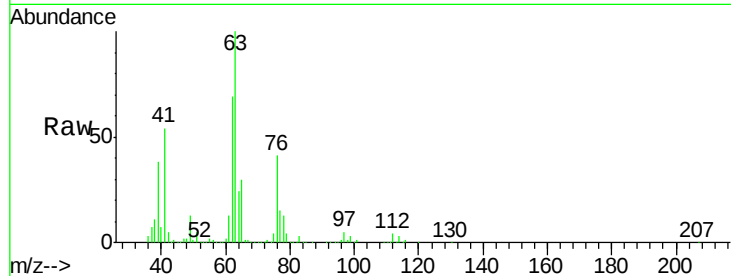
VSTD02577

Tot Ion: 63 Resp: 290734

Ion Ratio Lower Upper

63 100

112 4.5 3.8 5.8



#38

Bromodichloromethane

Concen: 24.012 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

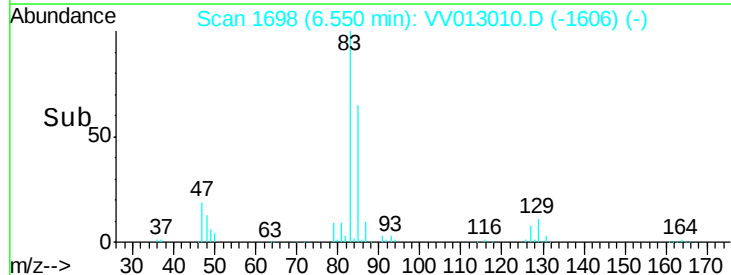
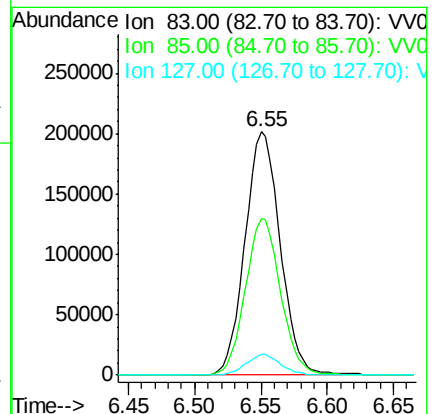
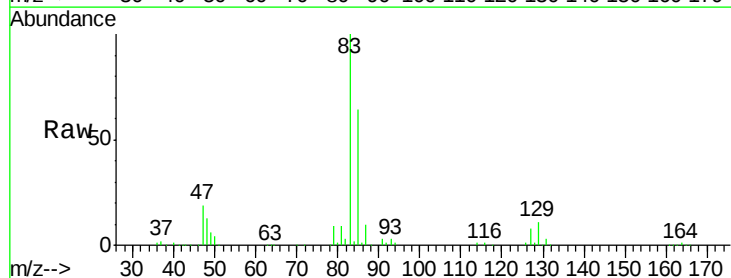
Tgt Ion: 83 Resp: 372653

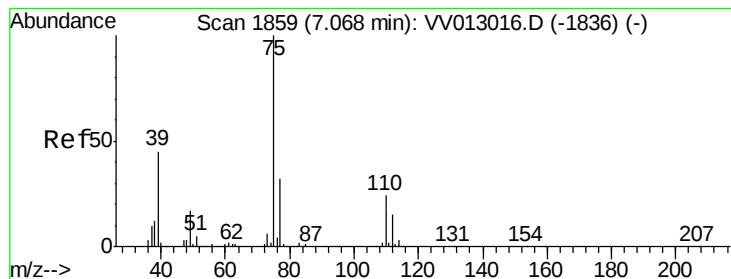
Ion Ratio Lower Upper

83 100

85 64.3 43.9 81.5

127 8.5 7.0 10.6



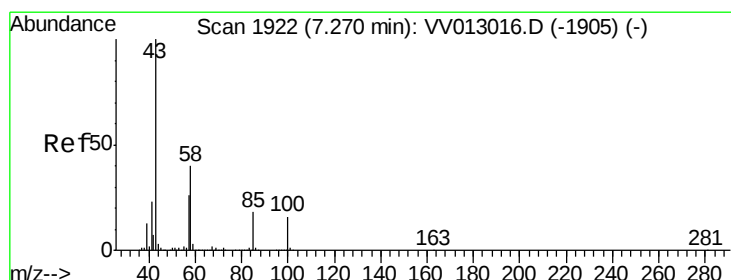
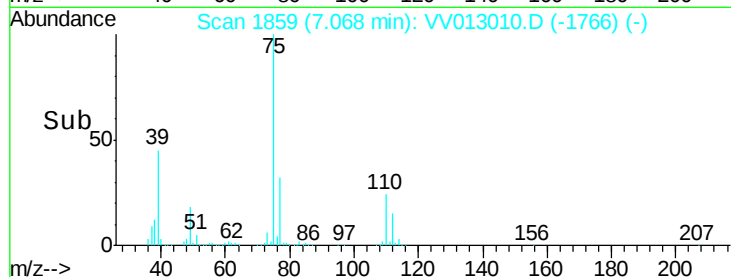
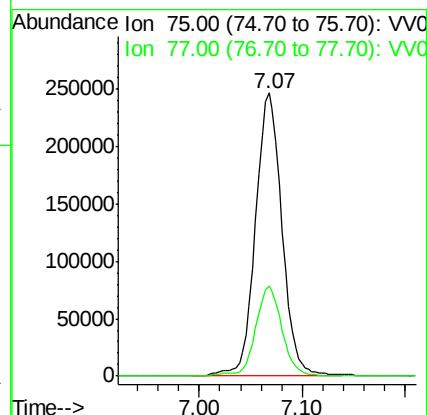
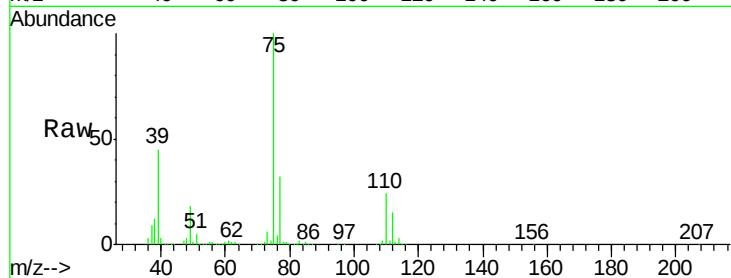


#39

cis-1,3-Dichloropropene
 Concen: 24.563 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02577

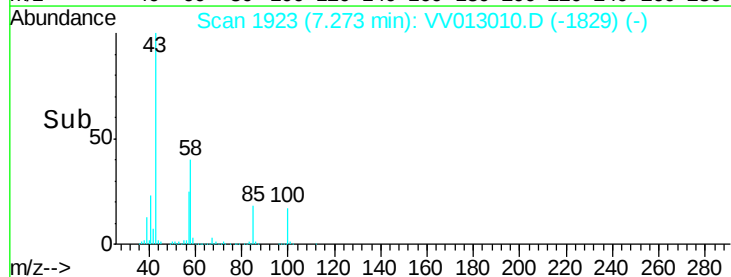
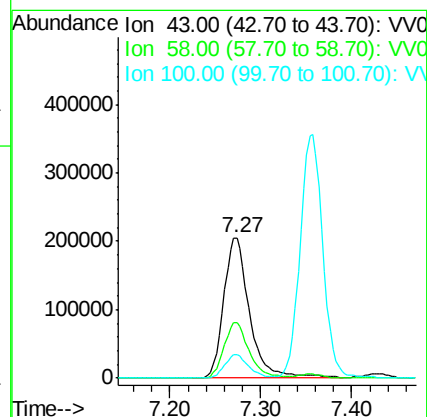
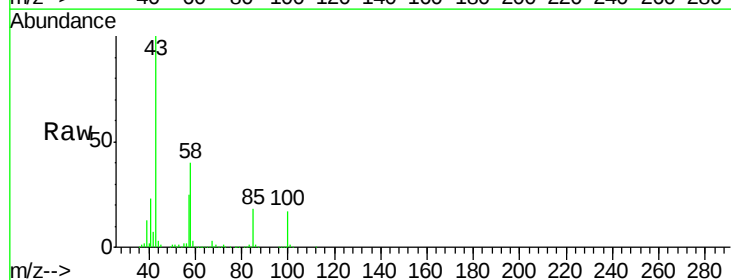
Tot Ion: 75 Resp: 439706
 Ion Ratio Lower Upper
 75 100
 77 31.7 21.8 40.4

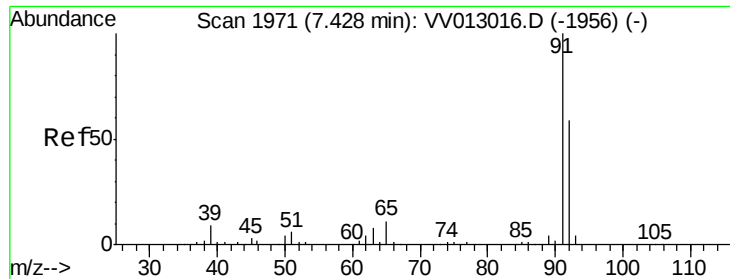


#40

4-Methyl-2-pentanone
 Concen: 42.797 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Tgt Ion: 43 Resp: 406657
 Ion Ratio Lower Upper
 43 100
 58 38.5 31.8 47.8
 100 15.5 12.8 19.2





#42

Toluene

Concen: 25.814 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

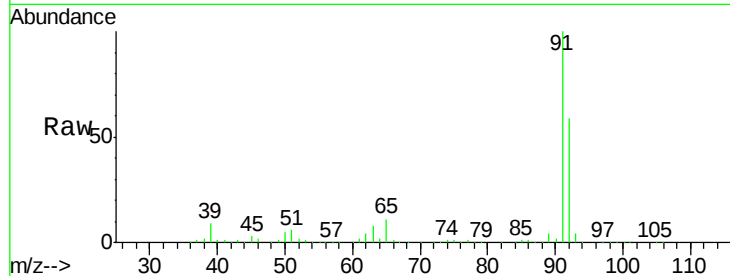
Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tot Ion: 91 Resp: 1272100

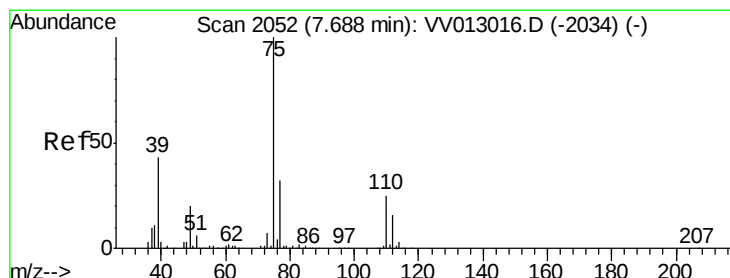
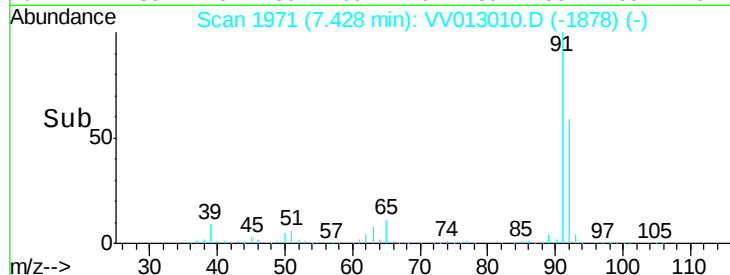
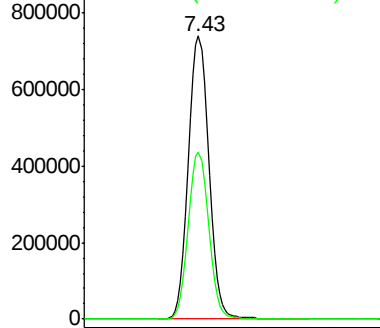
Ion Ratio Lower Upper

91 100

92 59.1 41.1 76.3



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 24.183 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013010.D

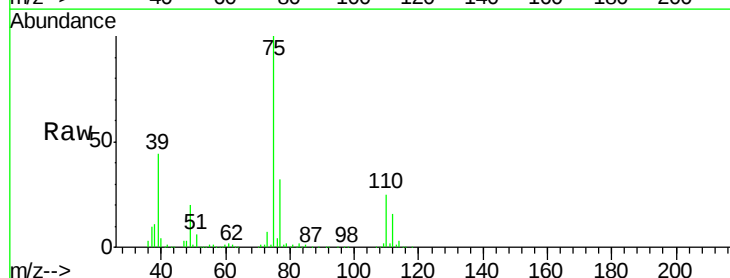
Acq: 30 Sep 2019 10:08

Tgt Ion: 75 Resp: 355455

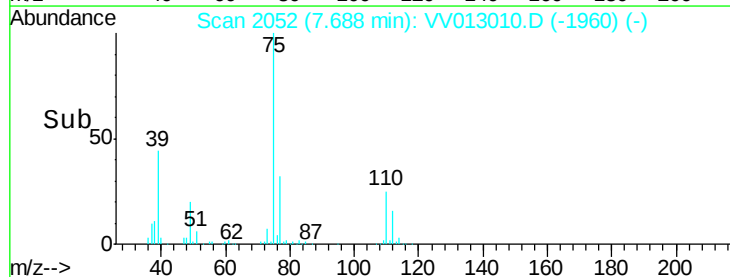
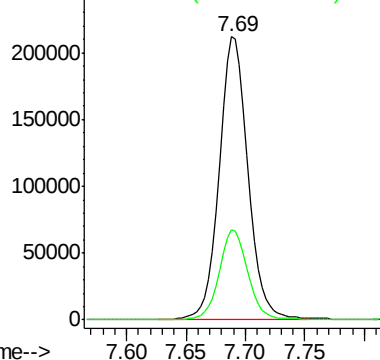
Ion Ratio Lower Upper

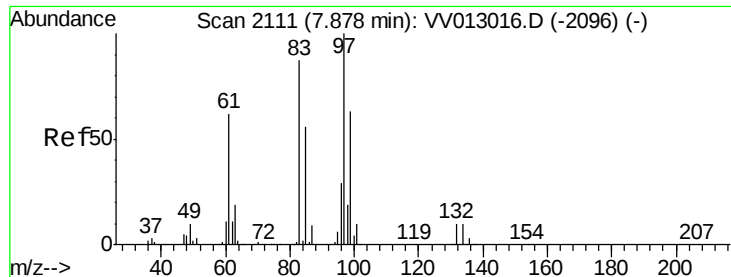
75 100

77 31.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

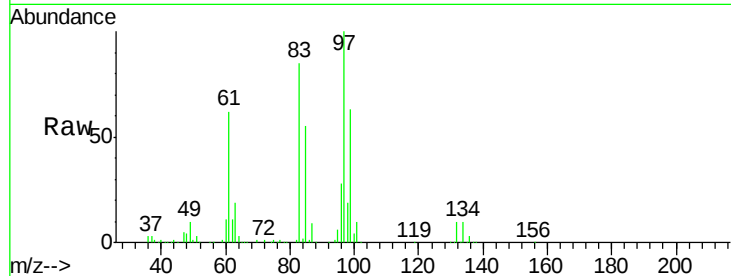




#45
 1,1,2-Trichloroethane
 Concen: 22.501 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

Tot Ion:	97	Resp:	226929
Ion	Ratio	Lower	Upper
97	100		
99	63.0	44.2	82.2
83	85.0	59.7	110.9
85	55.0	38.6	71.6



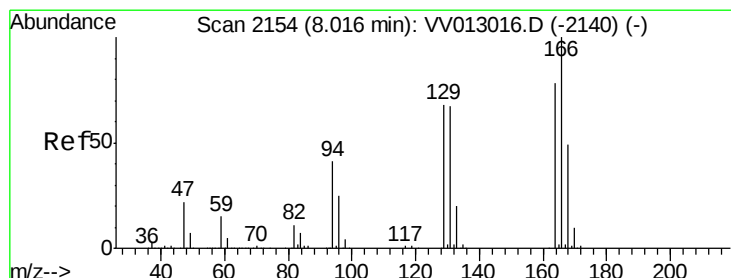
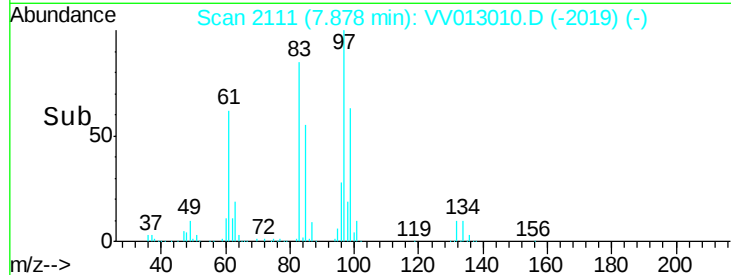
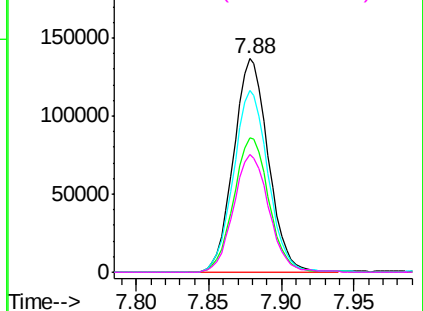
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

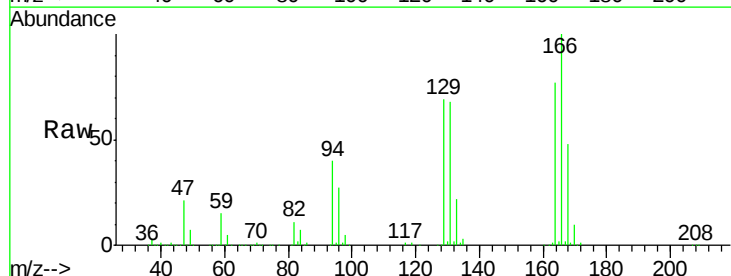
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 25.614 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Tgt Ion:	164	Resp:	266019
Ion	Ratio	Lower	Upper
164	100		
129	89.8	61.2	113.6
131	87.5	59.9	111.3
166	129.6	89.1	165.5



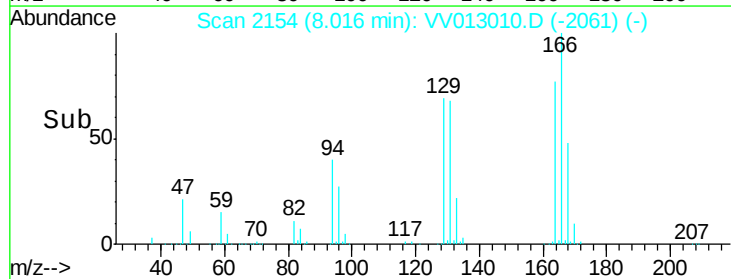
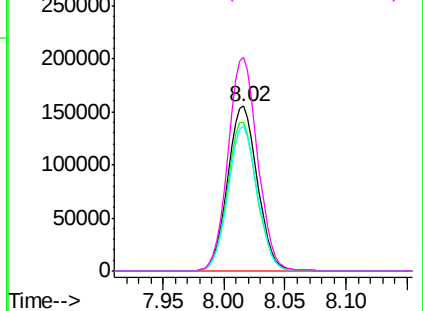
Abundance

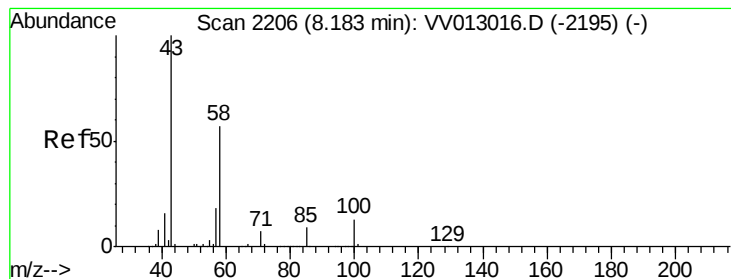
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 44.629 ug/L

RT: 8.18 min Scan# 2206

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

Tot Ion: 43 Resp: 308750

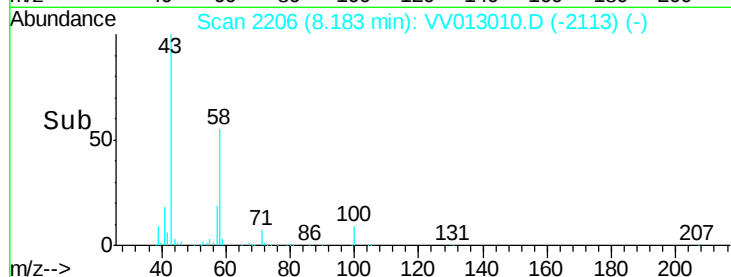
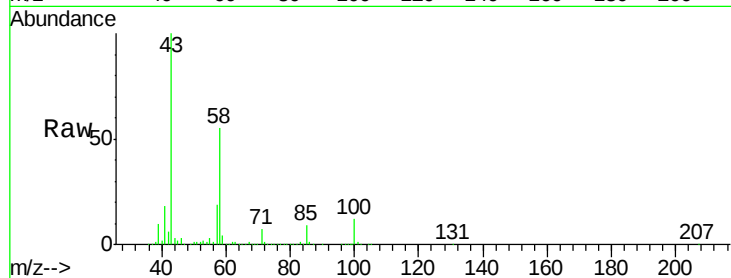
Ion Ratio Lower Upper

43 100

58 54.7 44.9 67.3

57 19.4 15.2 22.8

100 12.6 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VV013010.D (-2113) (-)

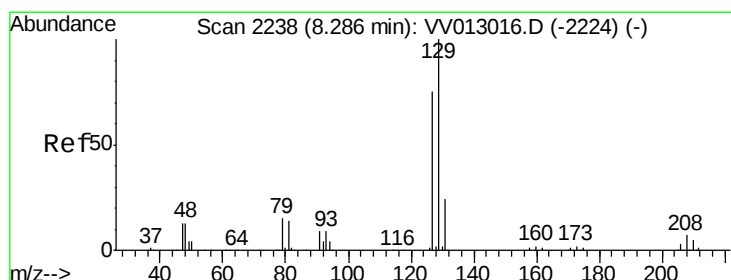
Ion 58.00 (57.70 to 58.70): VV013010.D (-2113) (-)

Ion 57.00 (56.70 to 57.70): VV013010.D (-2113) (-)

Ion 100.00 (99.70 to 100.70): VV013010.D (-2113) (-)

Time-->

8.10 8.20 8.30



#49

Dibromochloromethane

Concen: 23.519 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013010.D

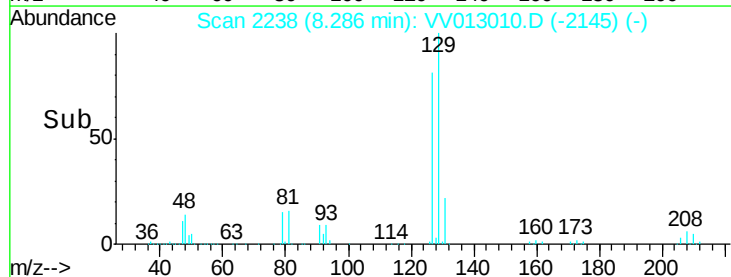
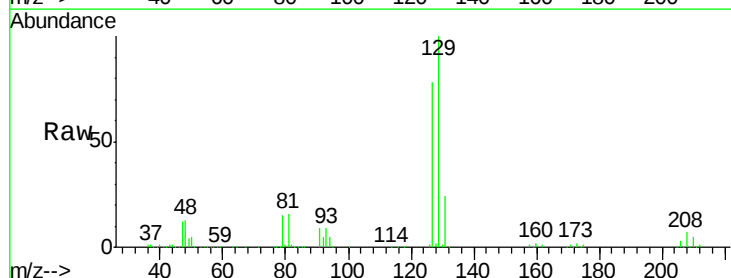
Acq: 30 Sep 2019 10:08

Tgt Ion: 129 Resp: 270479

Ion Ratio Lower Upper

129 100

127 78.2 53.9 100.1

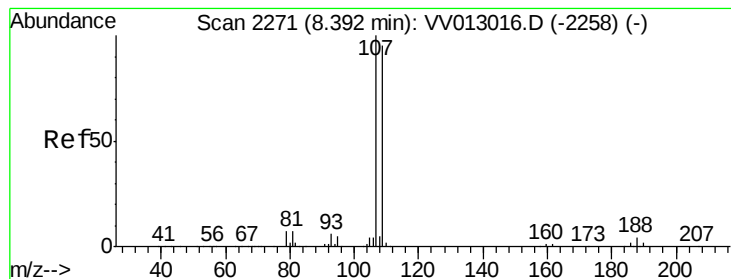


Abundance Ion 129.00 (128.70 to 129.70): VV013010.D (-2145) (-)

Ion 127.00 (126.70 to 127.70): VV013010.D (-2145) (-)

Time-->

8.20 8.25 8.30 8.35 8.40



#50

1,2-Dibromoethane

Concen: 22.503 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

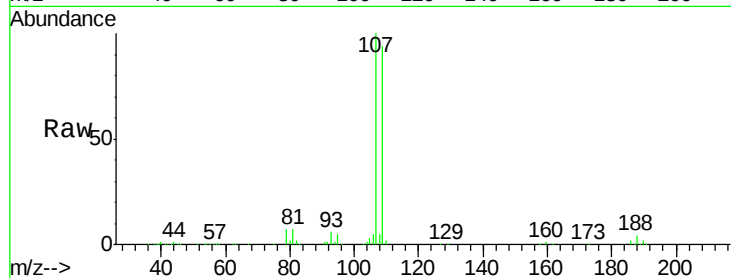
Tot Ion:107 Resp: 223891

Ion Ratio Lower Upper

107 100

109 94.1 64.7 120.1

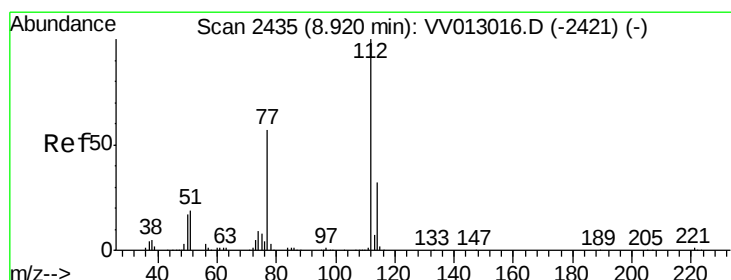
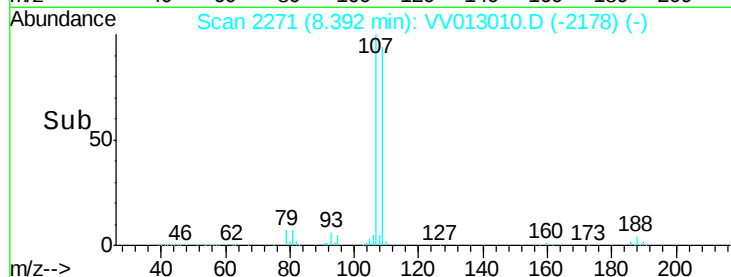
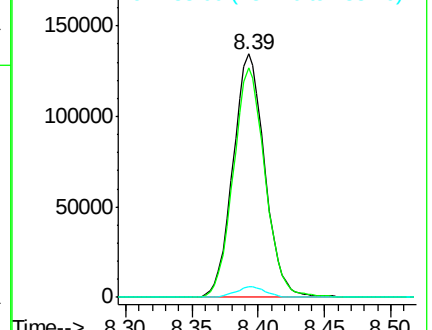
188 4.3 3.7 5.5



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



#51

Chlorobenzene

Concen: 24.651 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

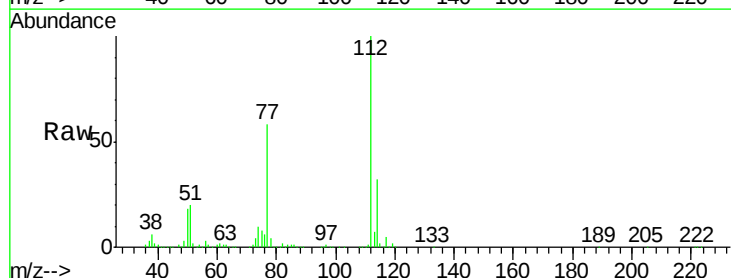
Tgt Ion:112 Resp: 823982

Ion Ratio Lower Upper

112 100

114 32.1 22.7 42.1

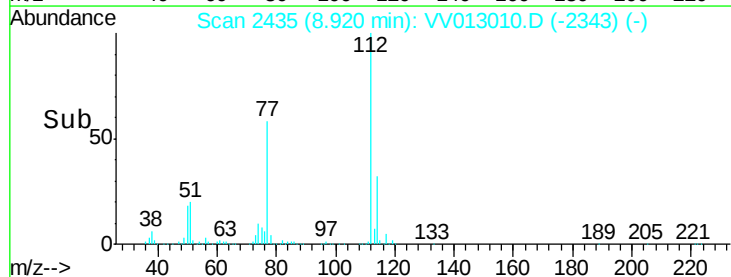
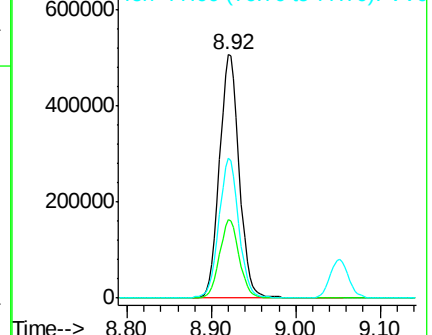
77 57.7 45.9 68.9

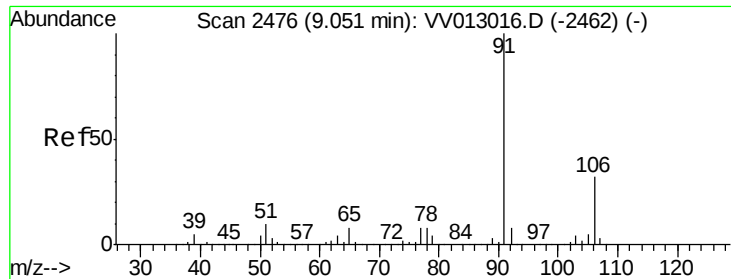


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 26.082 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

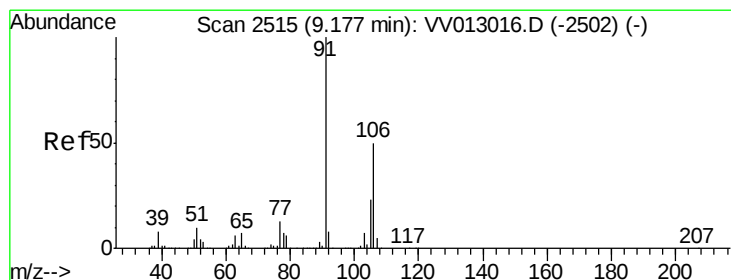
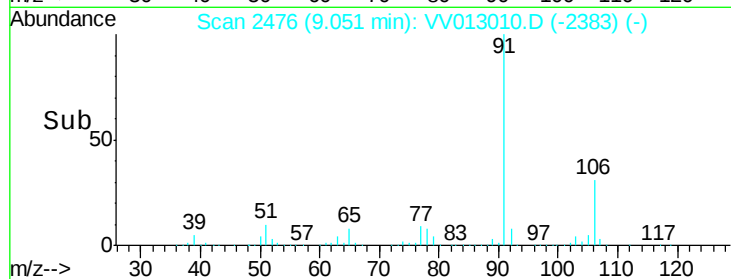
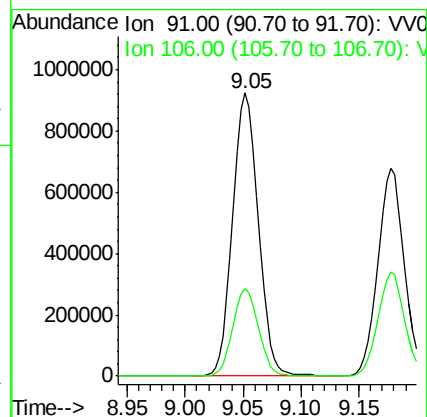
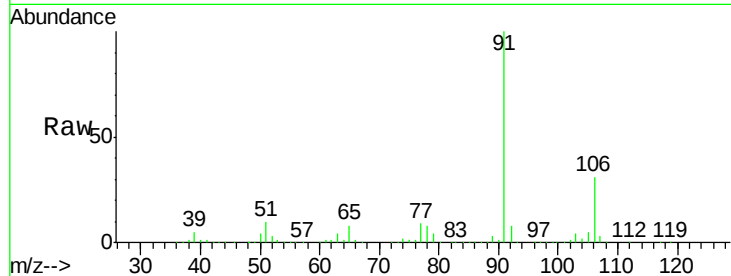
VSTD02577

Tot Ion: 91 Resp: 1411956

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 26.466 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013010.D

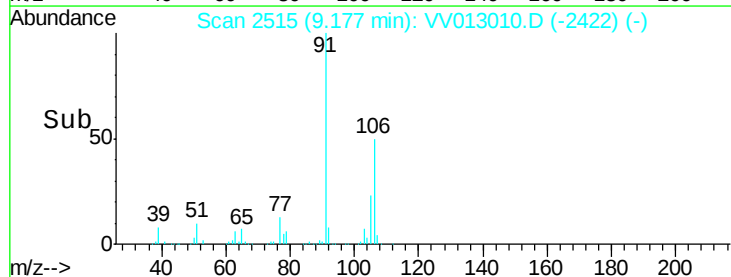
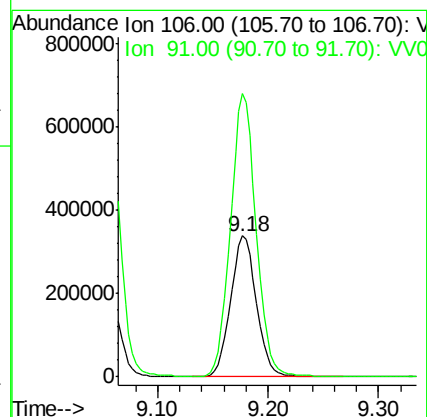
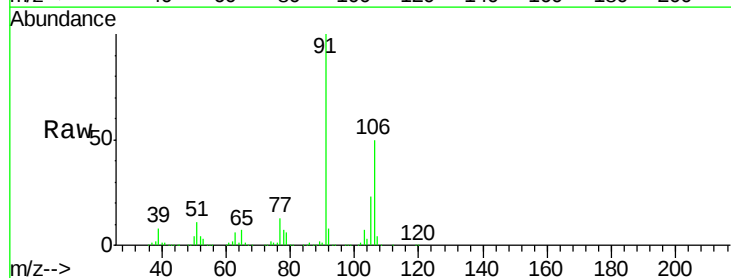
Acq: 30 Sep 2019 10:08

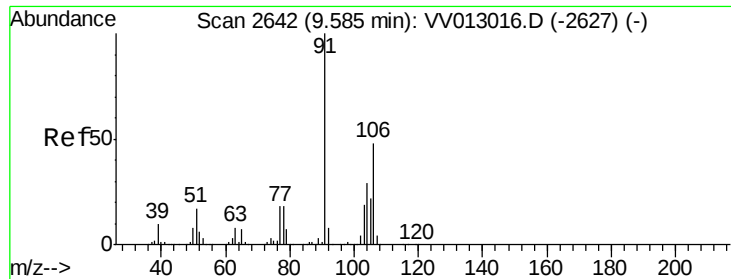
Tgt Ion: 106 Resp: 547682

Ion Ratio Lower Upper

106 100

91 200.7 138.0 256.2





#54

o-Xylene

Concen: 25.952 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

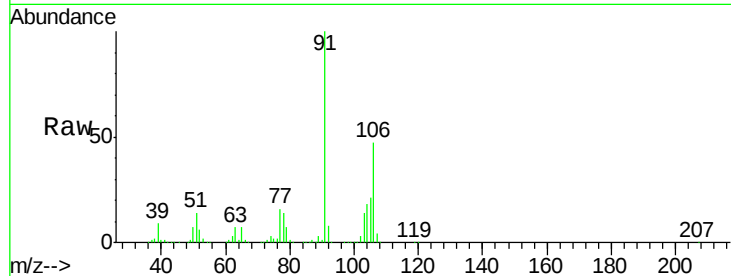
VSTD02577

Tot Ion:106 Resp: 513801

Ion Ratio Lower Upper

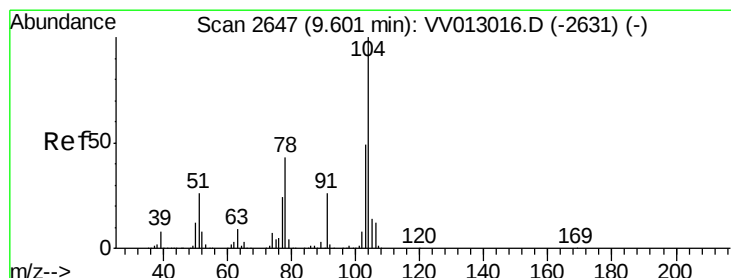
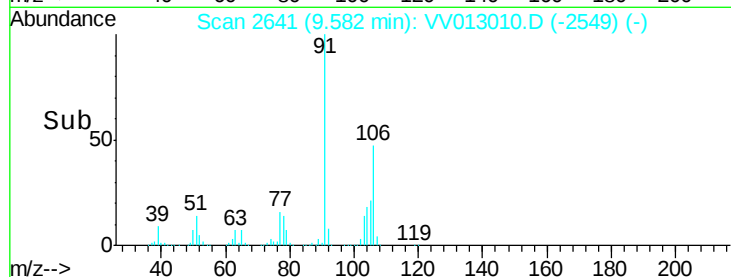
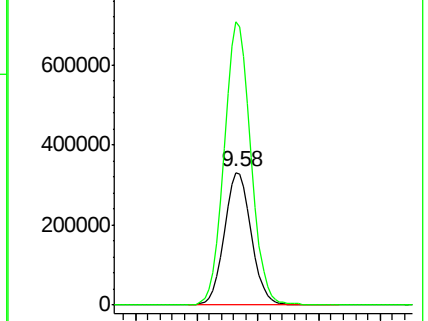
106 100

91 213.3 150.8 280.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 26.072 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV013010.D

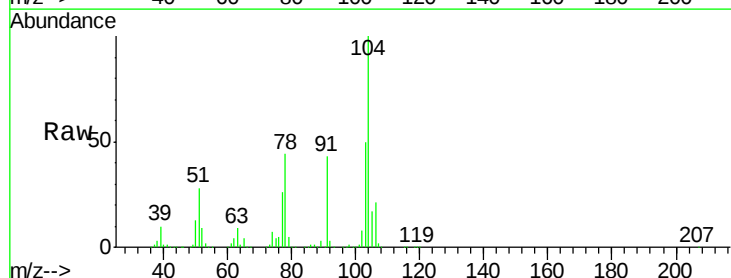
Acq: 30 Sep 2019 10:08

Tgt Ion:104 Resp: 903692

Ion Ratio Lower Upper

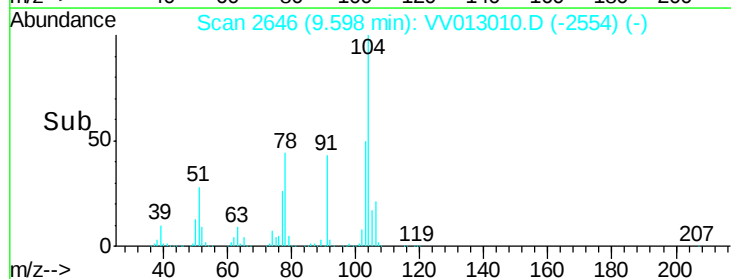
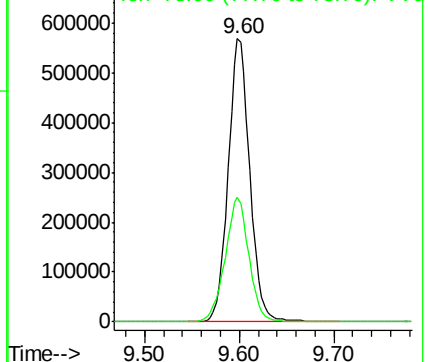
104 100

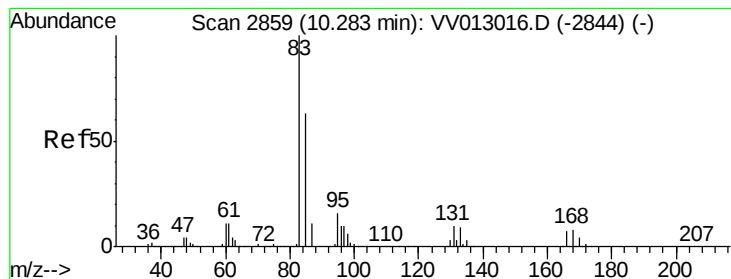
78 44.0 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 22.012 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

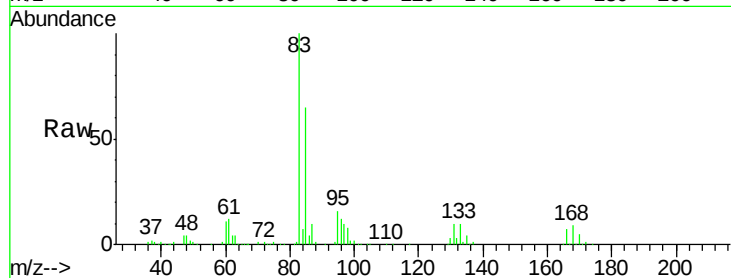
Tot Ion: 83 Resp: 270688

Ion Ratio Lower Upper

83 100

85 65.2 44.5 82.7

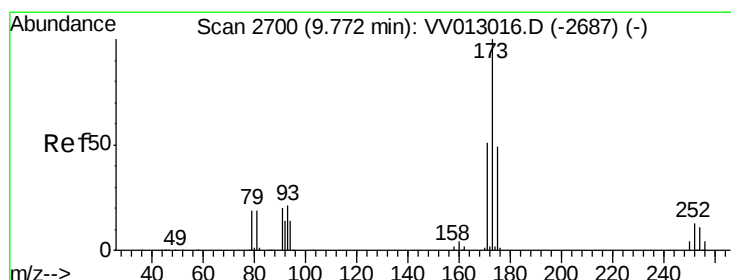
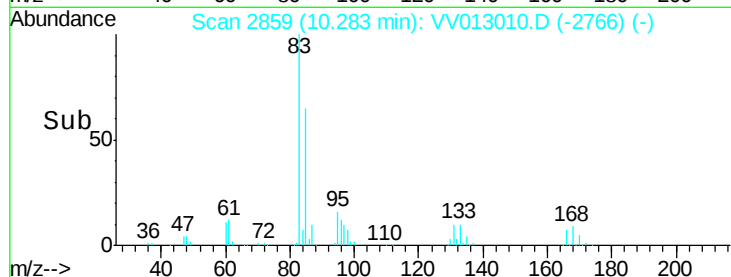
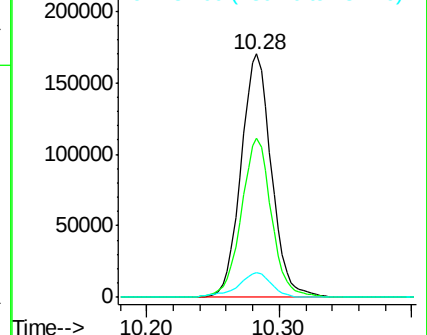
131 10.1 8.2 12.2



Abundance Ion 83.00 (82.70 to 83.70): VV013016.D (-2844) (-)

Ion 85.00 (84.70 to 85.70): VV013016.D (-2844) (-)

Ion 131.00 (130.70 to 131.70): VV013016.D (-2844) (-)



#59

Bromoform

Concen: 22.532 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

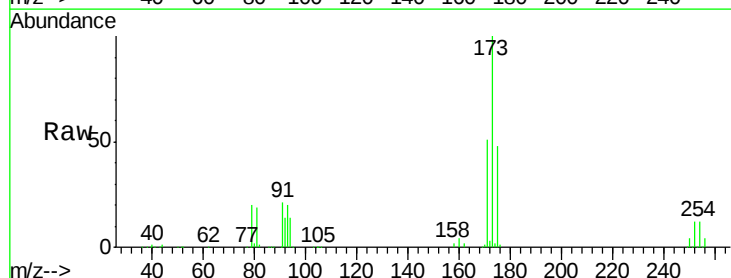
Tgt Ion: 173 Resp: 169424

Ion Ratio Lower Upper

173 100

175 48.7 38.9 58.3

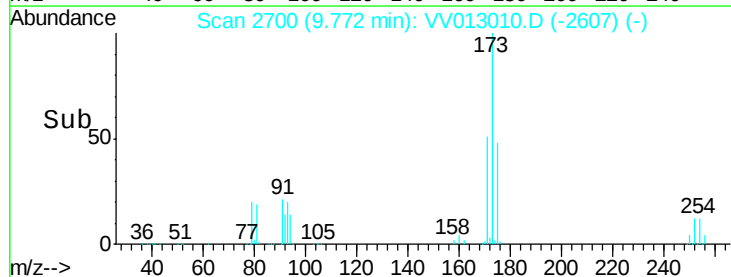
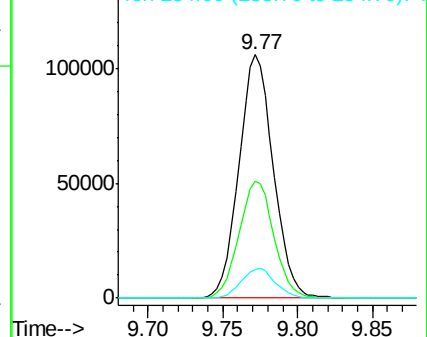
254 12.0 9.4 14.0

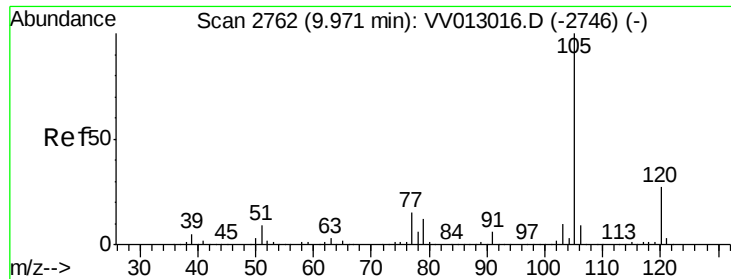


Abundance Ion 173.00 (172.70 to 173.70): VV013016.D (-2687) (-)

Ion 175.00 (174.70 to 175.70): VV013016.D (-2687) (-)

Ion 254.00 (253.70 to 254.70): VV013016.D (-2687) (-)





#60

Isopropylbenzene

Concen: 26.492 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampled :

VSTD02577

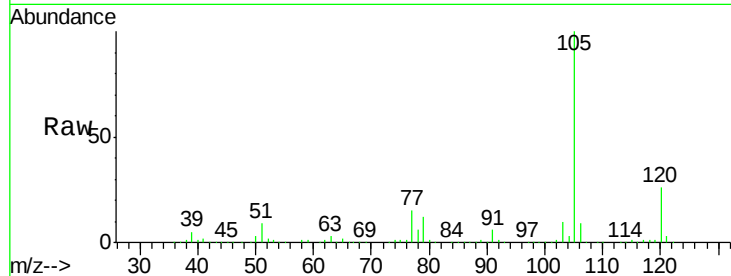
Tot Ion:105 Resp: 1401607

Ion Ratio Lower Upper

105 100

120 26.6 21.1 31.7

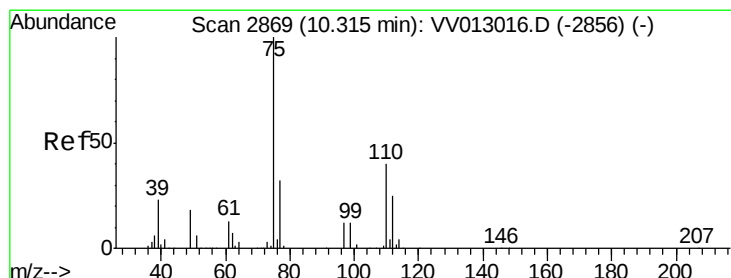
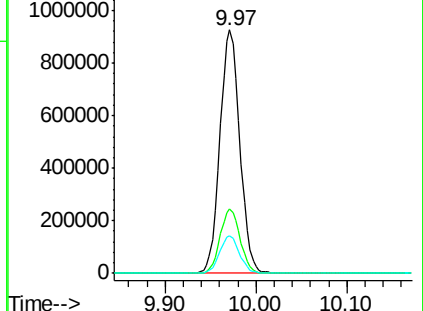
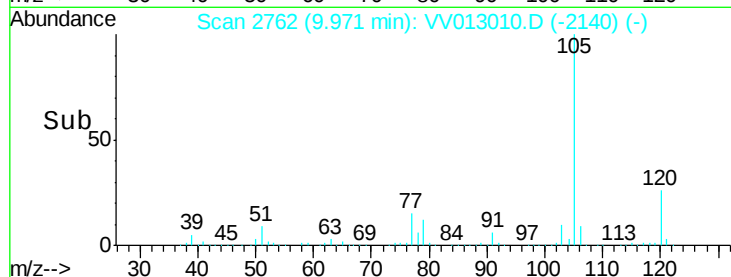
77 15.3 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 21.243 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

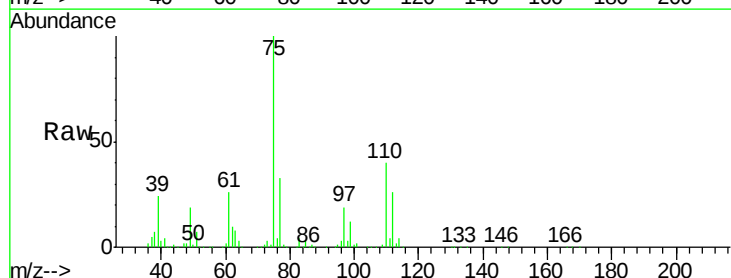
Tgt Ion: 75 Resp: 212276

Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2

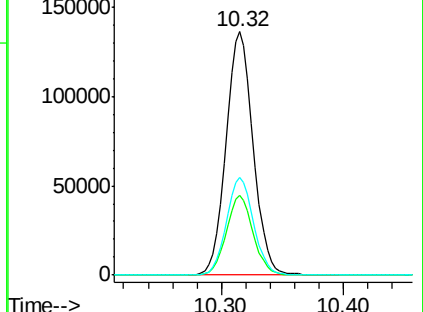
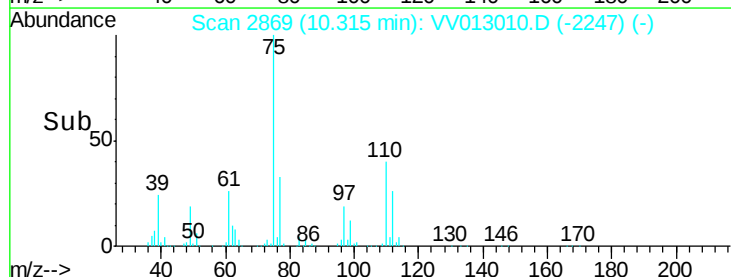
110 39.8 31.7 47.5

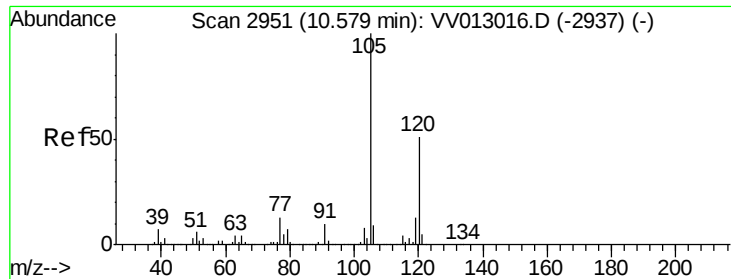


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

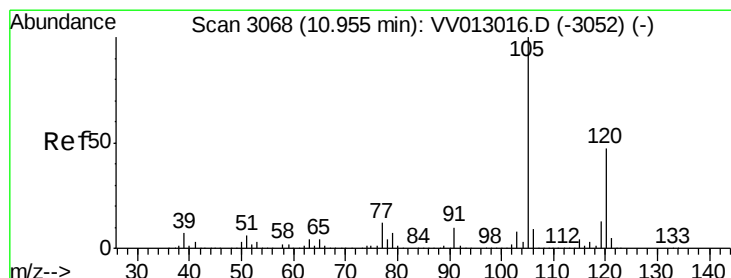
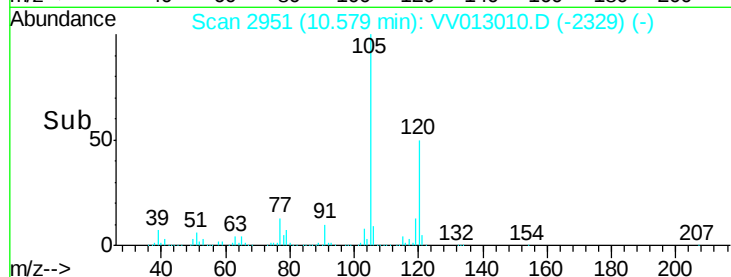
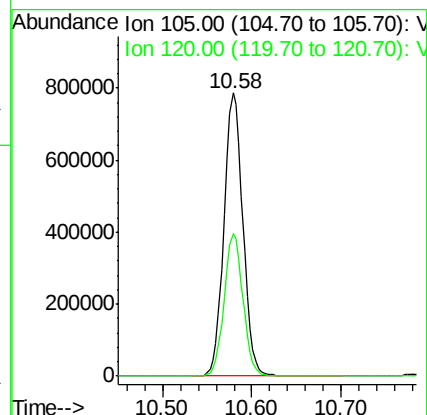
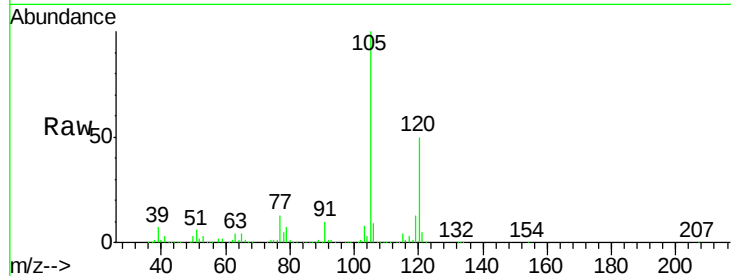




#62
 1,3,5-Trimethylbenzene
 Concen: 27.128 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

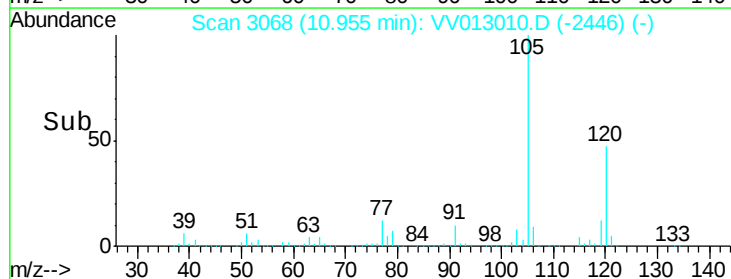
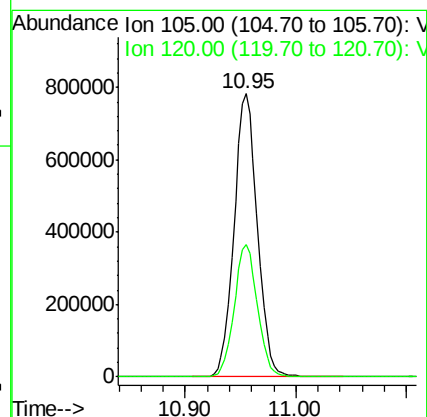
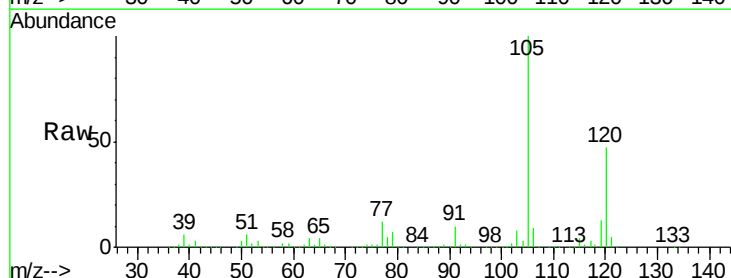
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

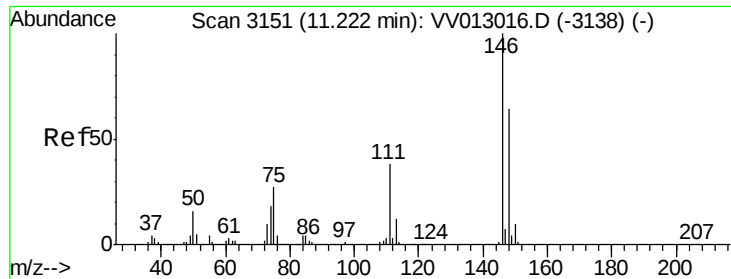
Tot Ion:105 Resp: 1156390
 Ion Ratio Lower Upper
 105 100
 120 50.1 40.6 61.0



#63
 1,2,4-Trimethylbenzene
 Concen: 26.751 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Tgt Ion:105 Resp: 1145148
 Ion Ratio Lower Upper
 105 100
 120 46.7 37.1 55.7





#64

1,3-Dichlorobenzene

Concen: 24.639 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

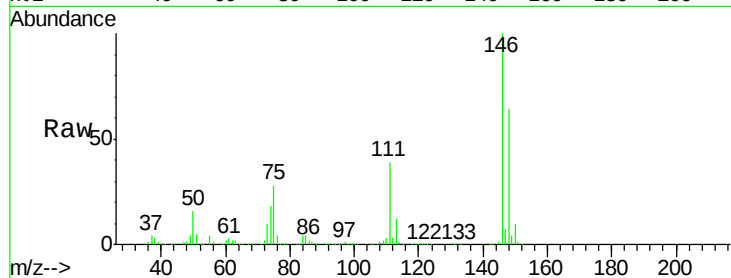
Tot Ion:146 Resp: 684227

Ion Ratio Lower Upper

146 100

111 38.6 27.0 50.2

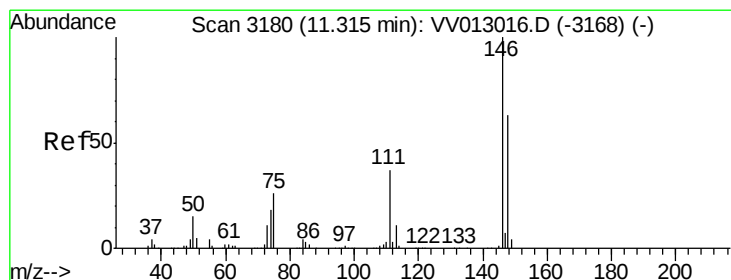
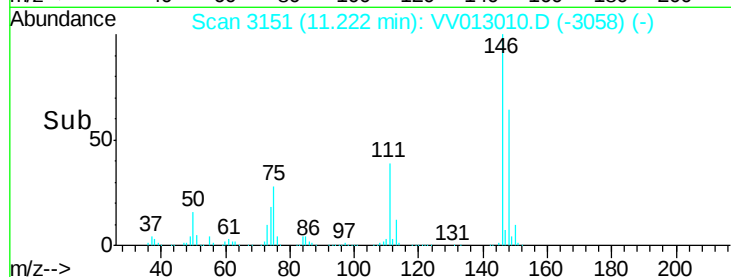
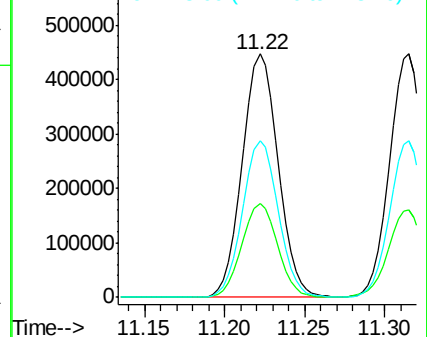
148 64.4 44.7 83.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 23.774 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

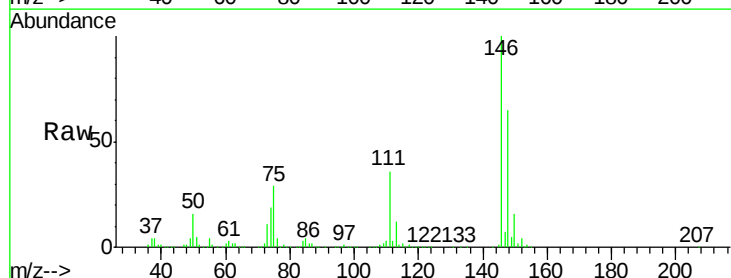
Tgt Ion:146 Resp: 693321

Ion Ratio Lower Upper

146 100

111 35.8 25.4 47.2

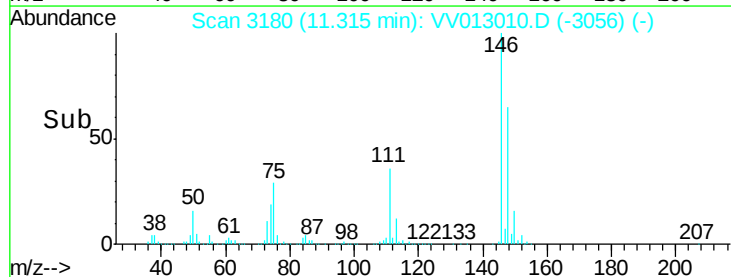
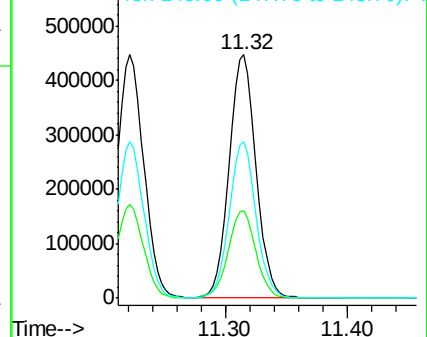
148 64.7 44.2 82.2

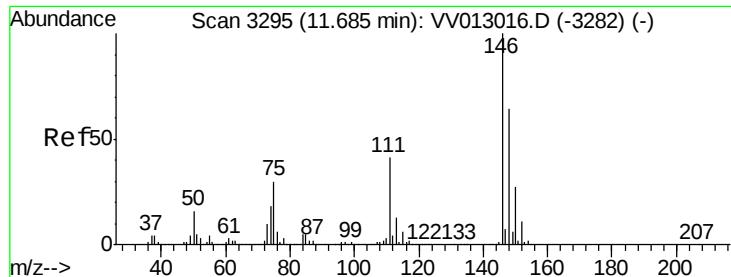


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

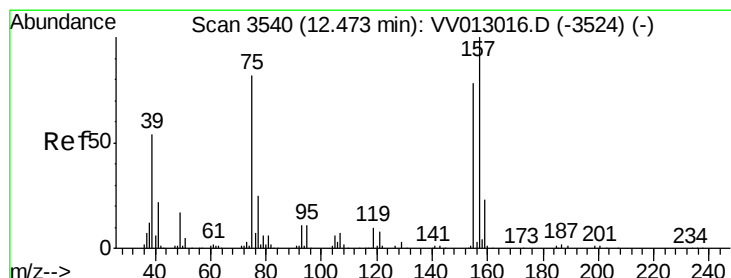
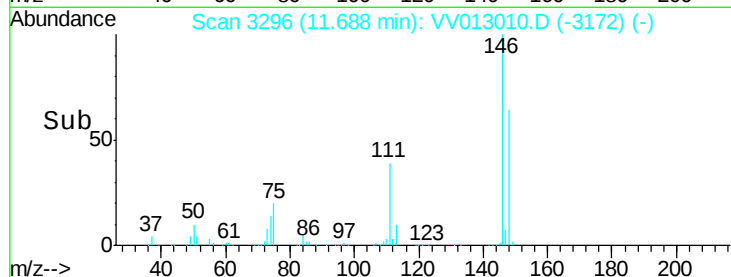
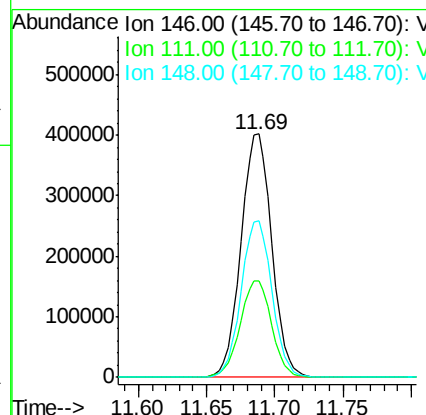
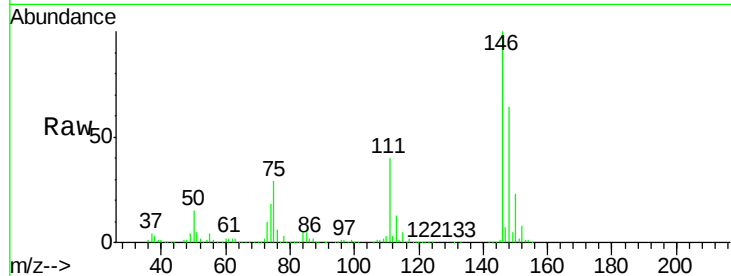




#67
 1,2-Dichlorobenzene
 Concen: 23.788 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

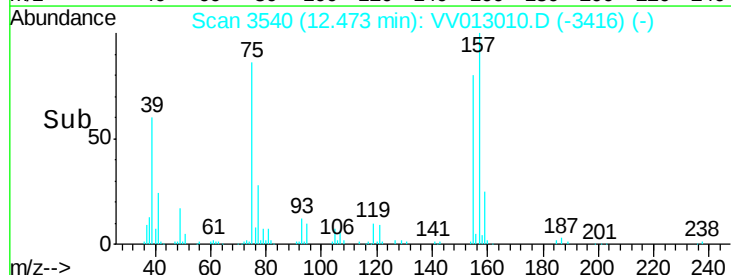
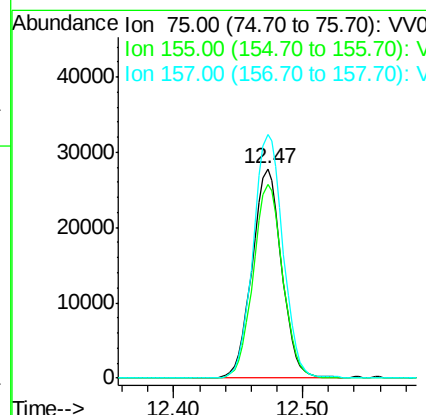
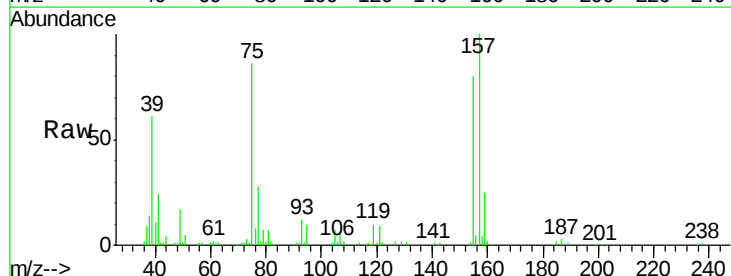
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02577

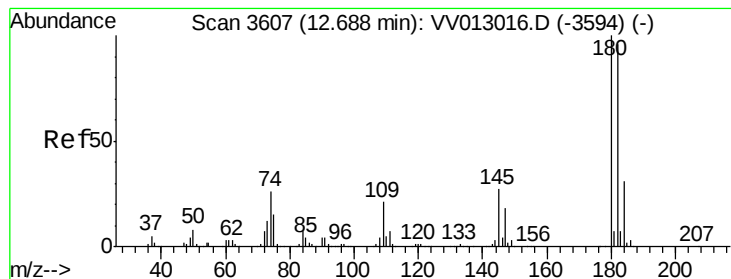
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	32.0	48.0
148	64.1	50.8	76.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 20.519 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013010.D
 Acq: 30 Sep 2019 10:08

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.7	74.4	111.6
157	116.2	95.8	143.6





#69

1,3,5-Trichlorobenzene

Concen: 24.133 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02577

Tot Ion:180 Resp: 539574

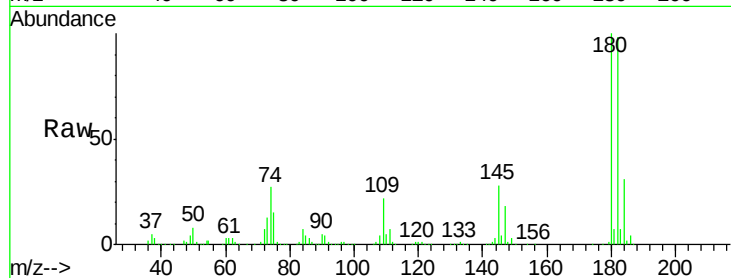
Ion Ratio Lower Upper

180 100

182 96.8 76.6 115.0

184 30.7 24.6 37.0

145 28.2 22.2 33.4

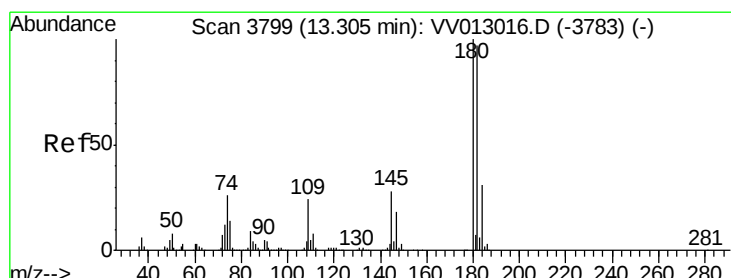
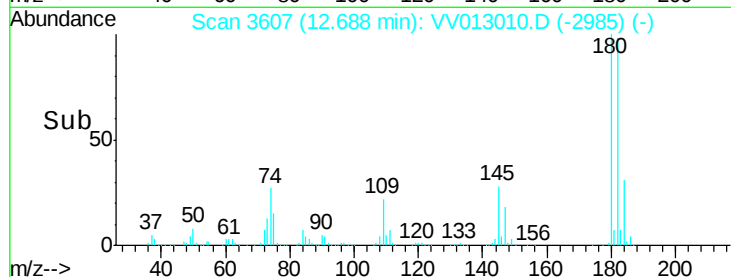
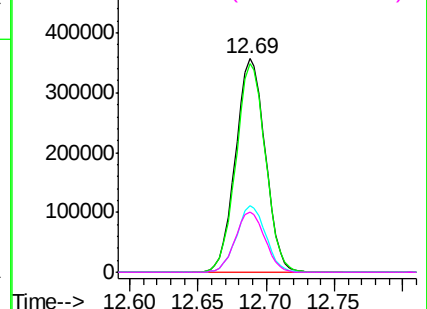


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70

1,2,4-trichlorobenzene

Concen: 23.557 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. 0.00 min

Lab File: VV013010.D

Acq: 30 Sep 2019 10:08

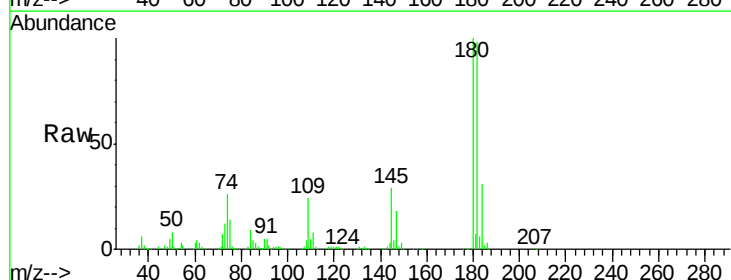
Tgt Ion:180 Resp: 455412

Ion Ratio Lower Upper

180 100

182 96.6 76.0 114.0

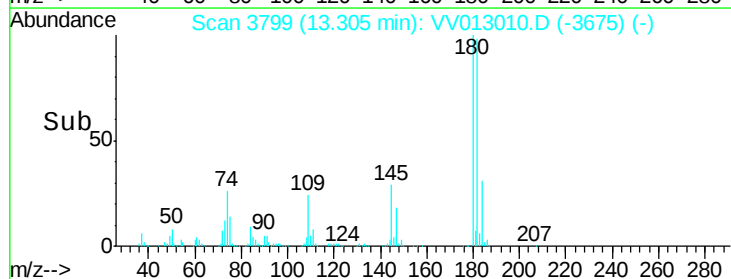
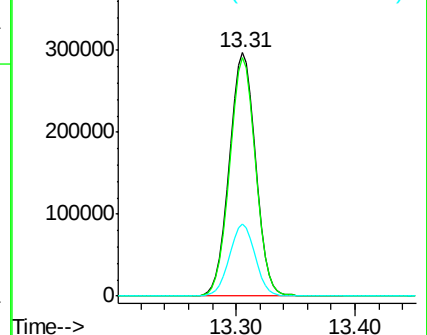
145 28.9 22.5 33.7

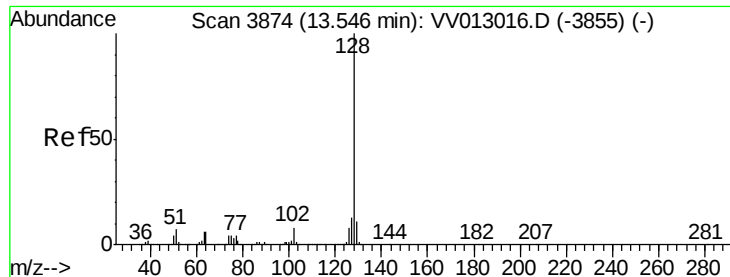


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

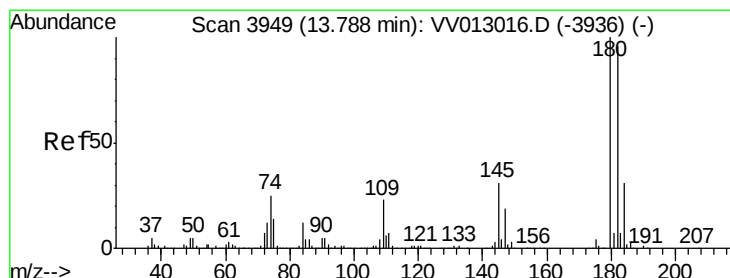
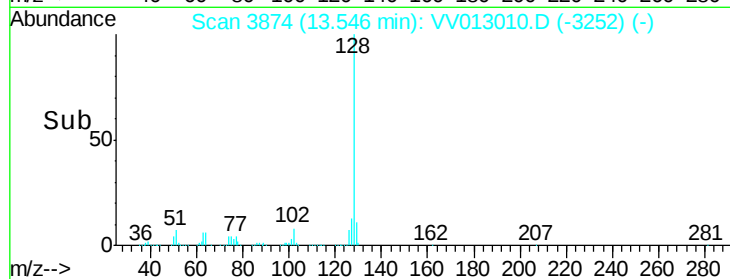
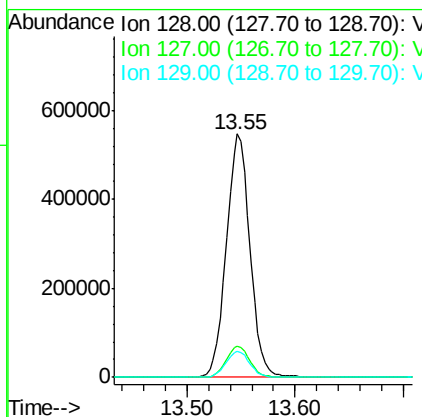
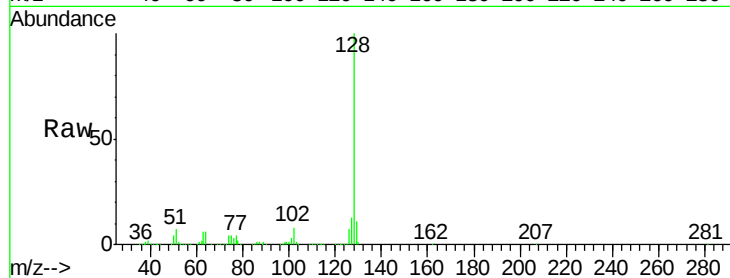




#71
Naphthalene
Concen: 22.152 ug/L
RT: 13.55 min Scan# 3874
Delta R.T. 0.00 min
Lab File: VV013010.D
Acq: 30 Sep 2019 10:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02577

Tot Ion:128 Resp: 834205
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.9 8.6 12.8



#72
1,2,3-Trichlorobenzene
Concen: 23.388 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. -0.00 min
Lab File: VV013010.D
Acq: 30 Sep 2019 10:08

Tgt Ion:180 Resp: 436130
Ion Ratio Lower Upper
180 100
182 94.6 76.7 115.1
145 30.0 24.2 36.4

