

Data File : VV010014.D
Acq On : 29 Mar 2019 21:08
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Quant Time: Mar 30 04:19:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Sat Mar 30 04:13:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	163138	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	164257	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	80114	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	64428	19.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.84%
7) Chloroethane-d5	1.56	69	75383	21.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	84.32%
10) 1,1-Dichloroethene-d2	2.12	63	210400	23.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.92%
20) 2-Butanone-d5	3.93	46	43394	70.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	140.68%#
24) Chloroform-d	4.40	84	108582	26.12	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.48%
26) 1,2-Dichloroethane-d4	5.08	65	68544	27.40	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	109.60%
29) Benzene-d6	5.09	84	206148	23.90	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.60%
33) 1,2-Dichloropropane-d6	6.12	67	66687	26.42	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.68%
37) Toluene-d8	7.36	98	192225	23.54	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.16%
38) trans-1,3-Dichloropropene-	7.66	79	26552	25.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.88%
39) 2-Hexanone-d5	8.13	63	29929	63.54	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	127.08%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	71133	28.47	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	113.88%
61) 1,2-Dichlorobenzene-d4	11.67	152	71040	23.29	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.16%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	54678	21.649	ug/L	98
3) Chloromethane	1.25	50	64202	21.995	ug/L	97
5) Vinyl chloride	1.32	62	88013	23.190	ug/L	100
6) Bromomethane	1.51	94	79738	21.064	ug/L	97
8) Chloroethane	1.58	64	68991	21.101	ug/L	97
9) Trichlorofluoromethane	1.76	101	199681	24.671	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	117822	25.045	ug/L	99
12) 1,1-Dichloroethene	2.13	96	99554	24.946	ug/L	95
13) Acetone	2.18	43	48560	51.991	ug/L	98
14) Carbon disulfide	2.31	76	114599	21.225	ug/L	97
15) Methyl Acetate	2.46	43	33673	30.778	ug/L	96
16) Methylene chloride	2.53	84	59520	22.155	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	141736	27.219	ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	50272	23.518	ug/L	96
19) 1,1-Dichloroethane	3.23	63	98222	25.126	ug/L	96
21) 2-Butanone	4.02	43	47510	57.115	ug/L	92
22) cis-1,2-Dichloroethene	3.96	96	60406	25.593	ug/L	97

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	28691	26.326	ug/L	92
25) Chloroform	4.42	83	112644	26.062	ug/L	98
27) 1,2-Dichloroethane	5.17	62	84109	27.465	ug/L	99
30) Cyclohexane	4.72	56	80517	24.311	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	86131	26.202	ug/L	99
32) Carbon tetrachloride	4.87	117	74456	26.059	ug/L	94
34) Benzene	5.14	78	224701	24.912	ug/L	100
35) Trichloroethene	5.95	95	57775	24.283	ug/L	99
36) Methylcyclohexane	6.17	83	87970	23.566	ug/L	98
40) 1,2-Dichloropropane	6.22	63	56506	25.070	ug/L #	94
41) Bromodichloromethane	6.55	83	76171	27.175	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	84769	25.796	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	101291	62.975	ug/L	98
44) Toluene	7.43	91	246764	24.816	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	73626	27.370	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	50584	27.136	ug/L	96
47) Tetrachloroethene	8.02	164	43202	23.011	ug/L	89
49) 2-Hexanone	8.18	43	69476	63.912	ug/L	98
50) Dibromochloromethane	8.29	129	52434	27.127	ug/L	99
51) 1,2-Dibromoethane	8.39	107	49281	27.227	ug/L	88
52) Chlorobenzene	8.92	112	161773	24.438	ug/L	98
53) Ethylbenzene	9.05	91	267886	24.422	ug/L	98
54) m,p-Xylene	9.18	106	101949	23.664	ug/L	87
55) o-xylene	9.59	106	101796	24.343	ug/L	98
56) Styrene	9.60	104	174000	24.225	ug/L	91
57) Isopropylbenzene	9.97	105	257475	23.734	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	71518	28.463	ug/L #	93
59) 1,2,3-Trichloropropane	10.32	75	52509	28.955	ug/L	99
62) Bromoform	9.77	173	28593	27.747	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	119789	24.175	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	123946	23.016	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	118673	24.267	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	9594	31.389	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	83414	23.704	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	63666	24.526	ug/L	98
69) Naphthalene	13.55	128	115727	26.820	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	64381	26.084	ug/L	96

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

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VSTD02573

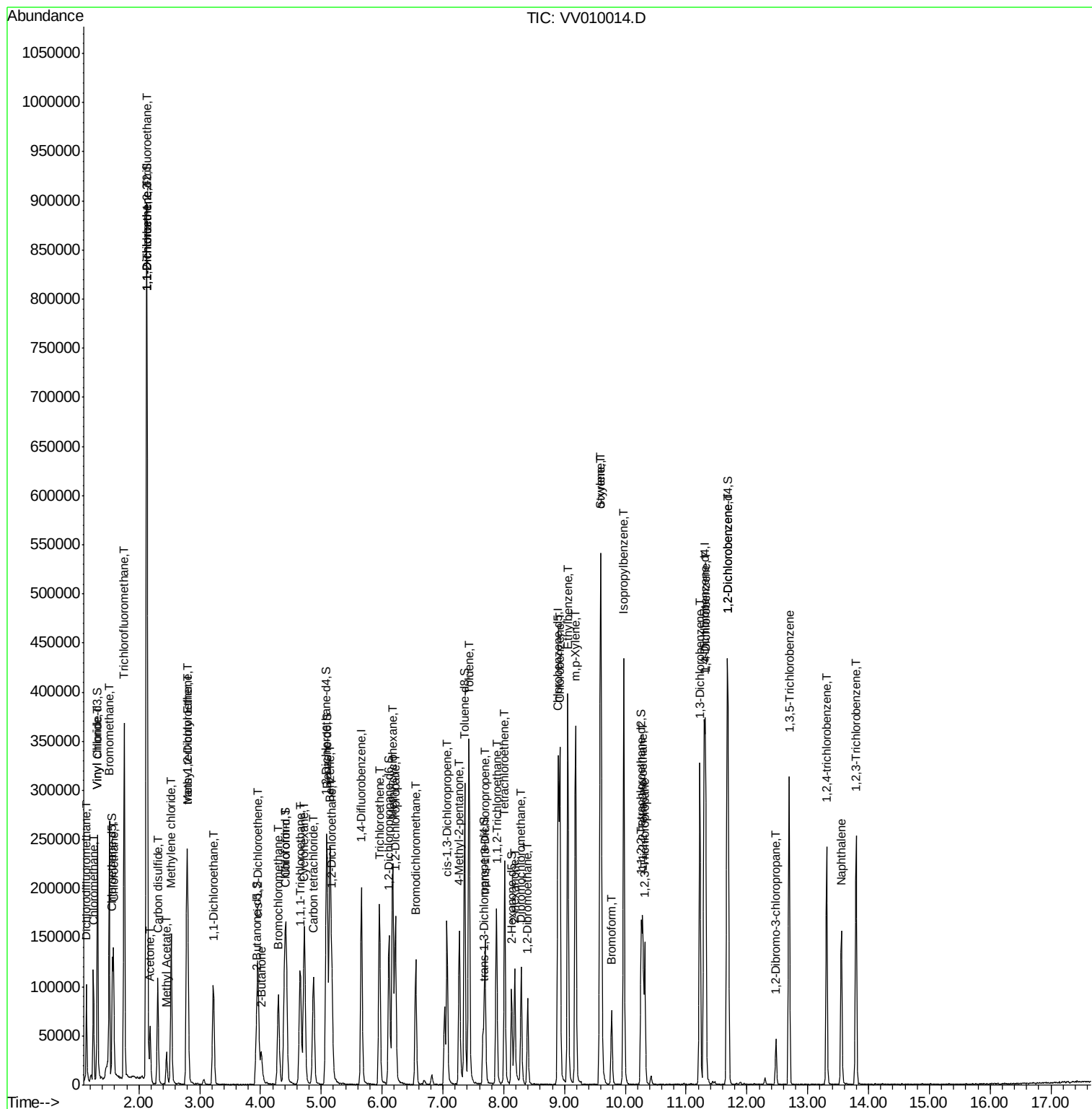
Quant Time: Mar 30 04:19:19 2019

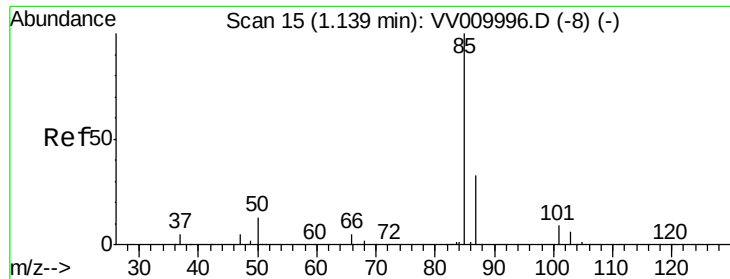
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM032619S.M

Quant Title : VOC Analysis

QLast Update : Sat Mar 30 04:13:13 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 21.649 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

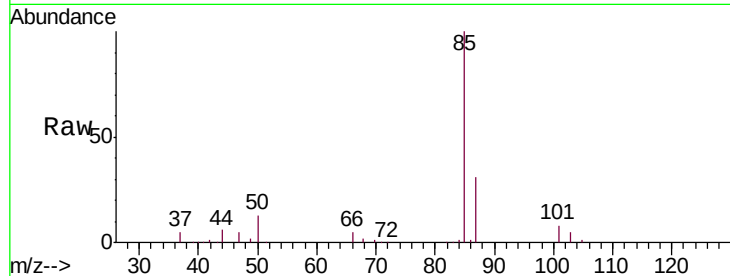
VSTD02573

Tgt Ion: 85 Resp: 54678

Ion Ratio Lower Upper

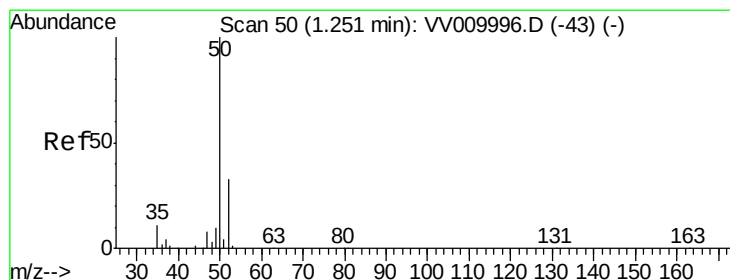
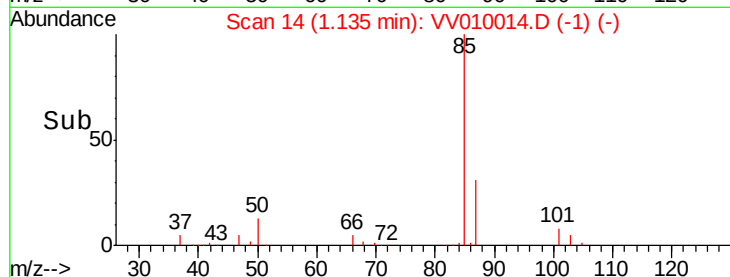
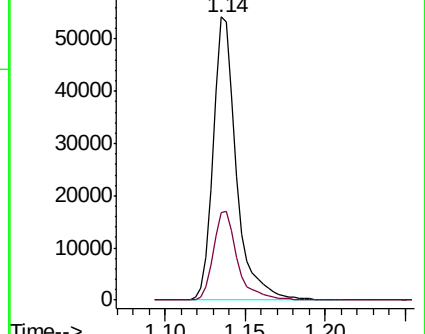
85 100

87 32.5 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 21.995 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV010014.D

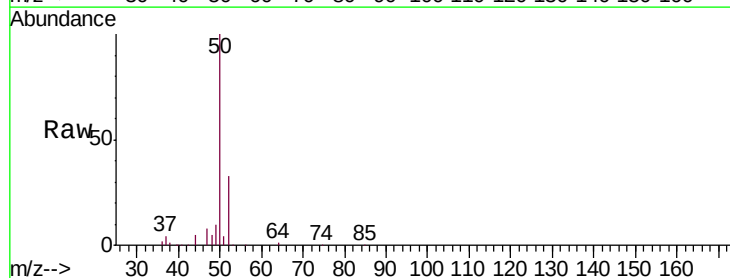
Acq: 29 Mar 2019 21:08

Tgt Ion: 50 Resp: 64202

Ion Ratio Lower Upper

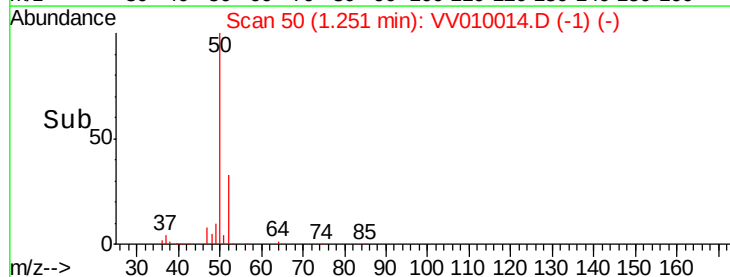
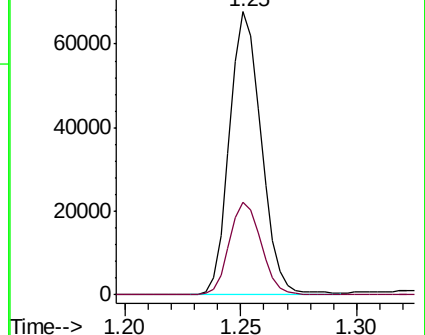
50 100

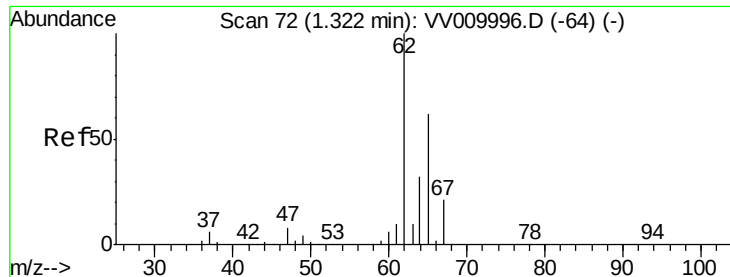
52 32.8 21.8 40.6



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 23.190 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

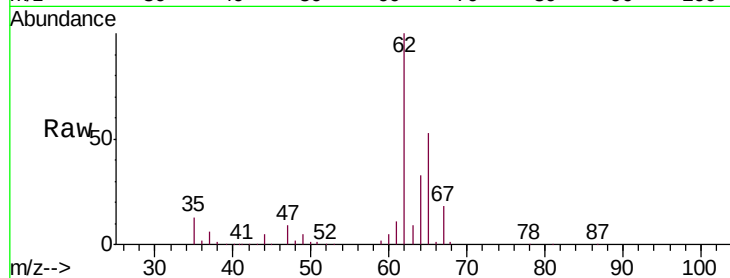
VSTD02573

Tgt Ion: 62 Resp: 88013

Ion Ratio Lower Upper

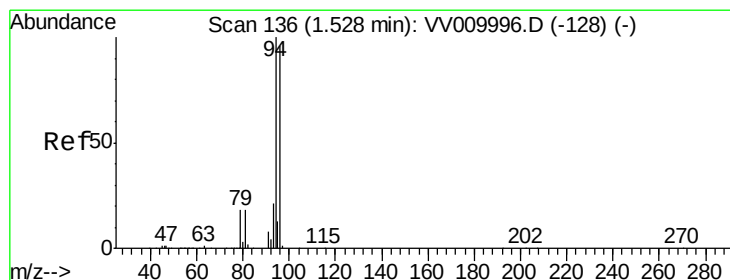
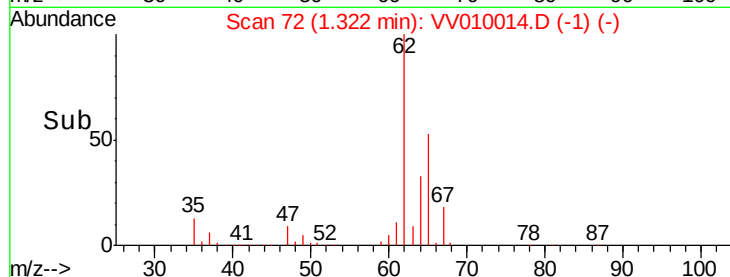
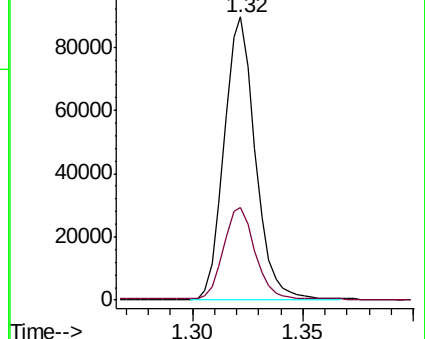
62 100

64 32.9 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 21.064 ug/L

RT: 1.51 min Scan# 131

Delta R.T. -0.02 min

Lab File: VV010014.D

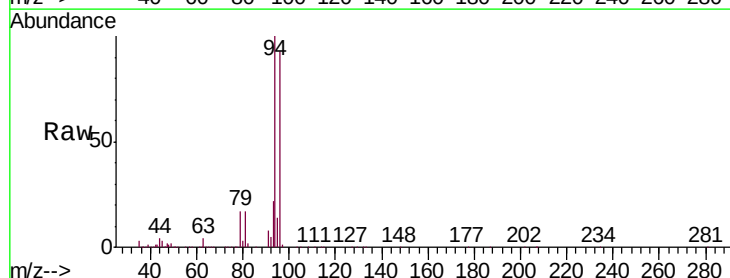
Acq: 29 Mar 2019 21:08

Tgt Ion: 94 Resp: 79738

Ion Ratio Lower Upper

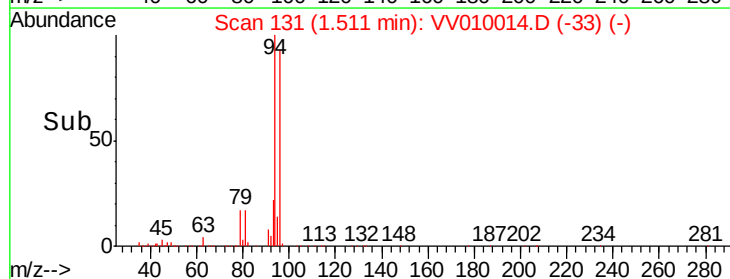
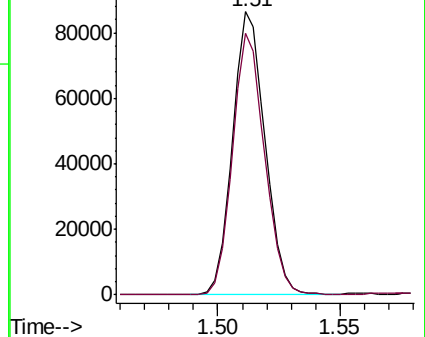
94 100

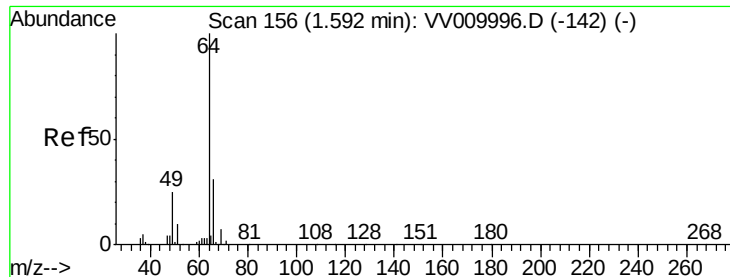
96 91.2 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

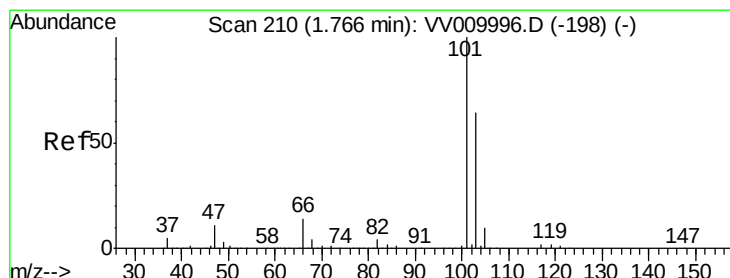
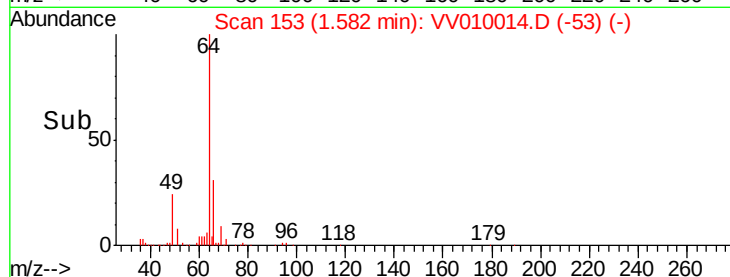
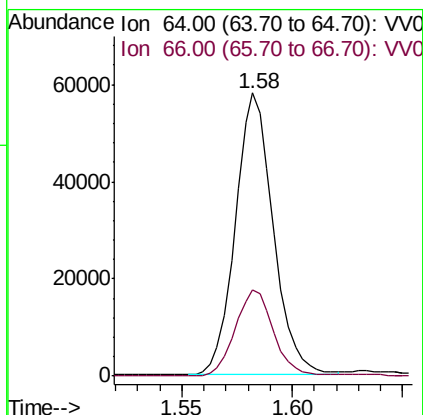
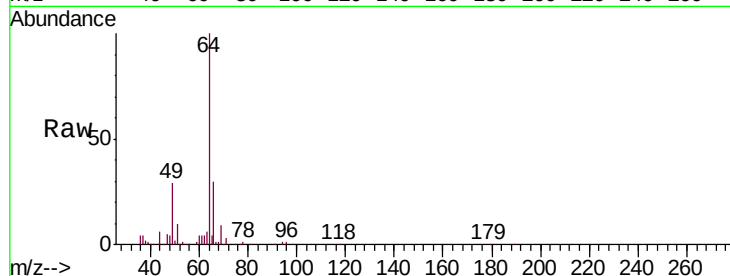




#8
Chloroethane
Concen: 21.101 ug/L
RT: 1.58 min Scan# 153
Delta R.T. -0.01 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

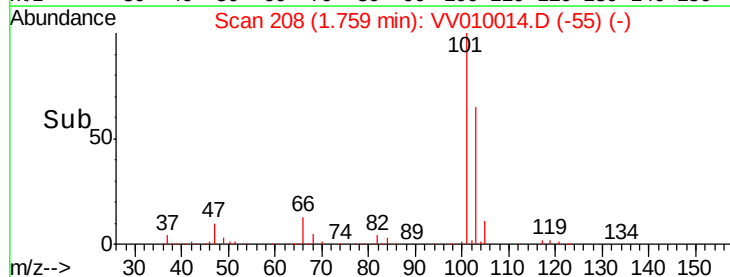
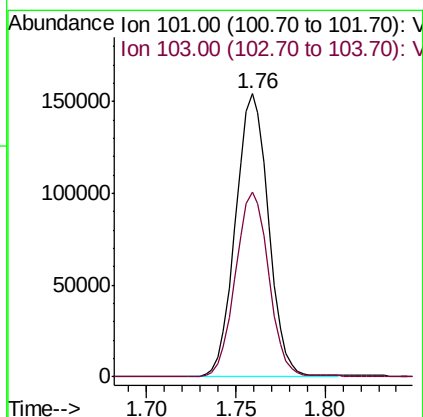
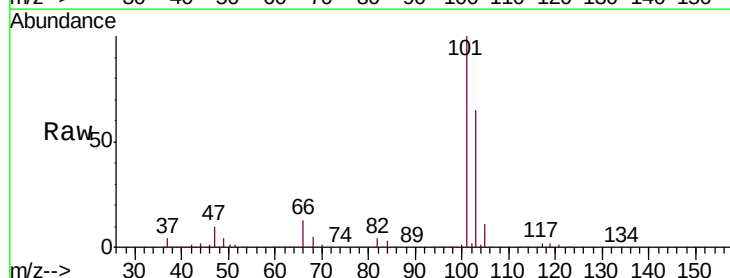
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

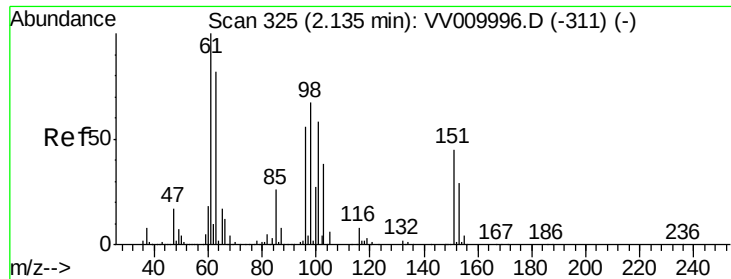
Tgt Ion: 64 Resp: 68991
Ion Ratio Lower Upper
64 100
66 30.3 22.3 41.5



#9
Trichlorofluoromethane
Concen: 24.671 ug/L
RT: 1.76 min Scan# 208
Delta R.T. -0.01 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 101 Resp: 199681
Ion Ratio Lower Upper
101 100
103 65.9 45.1 83.9





#11

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

Concen: 25.045 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

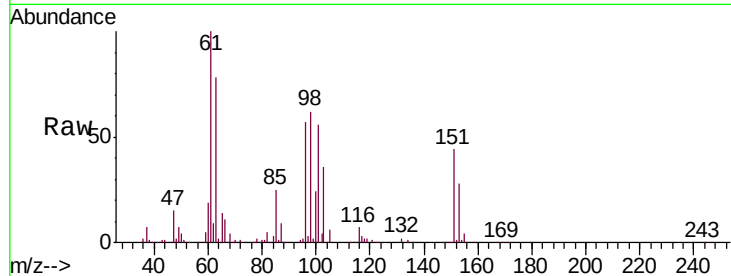
Tgt Ion: 101 Resp: 117822

Ion Ratio Lower Upper

101 100

85 44.0 36.9 55.3

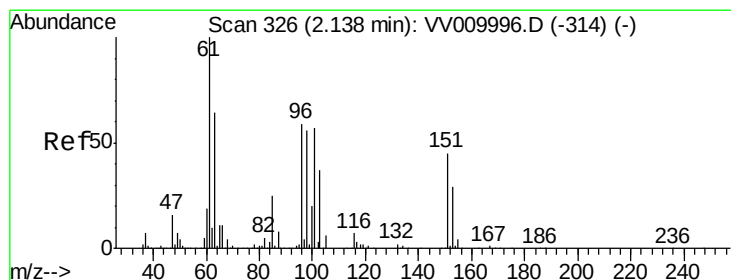
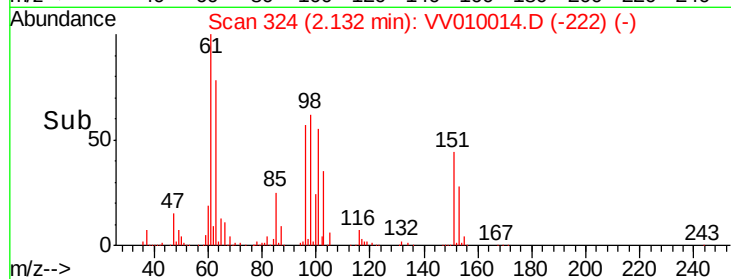
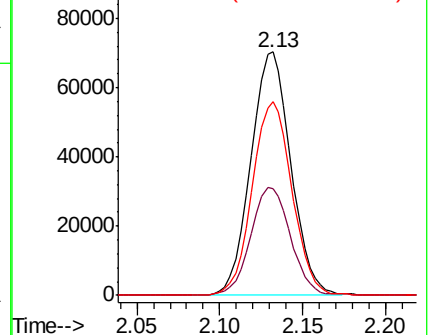
151 79.0 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): VV009996.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV009996.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV009996.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 24.946 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

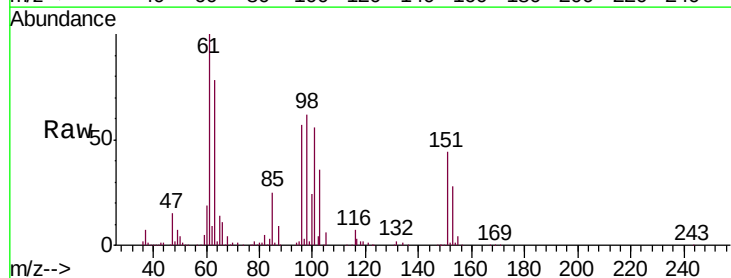
Tgt Ion: 96 Resp: 99554

Ion Ratio Lower Upper

96 100

61 176.0 124.3 230.8

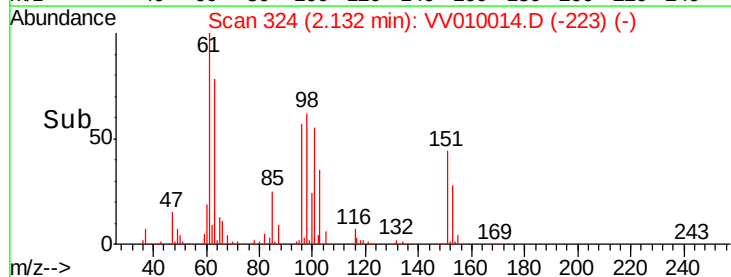
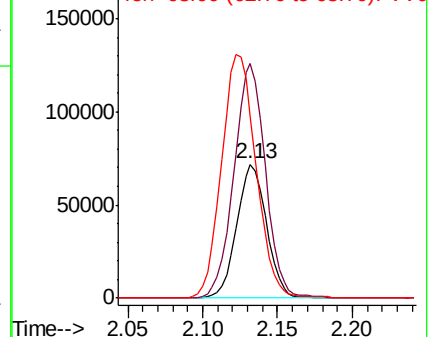
63 136.9 88.2 163.8

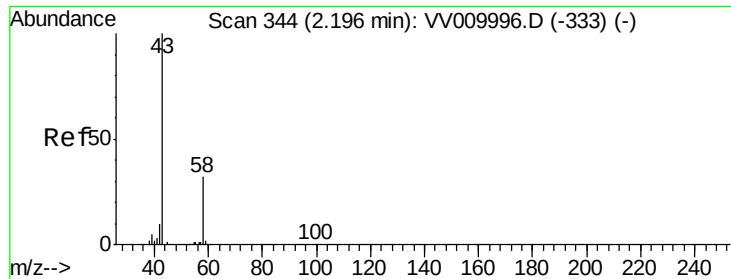


Abundance Ion 96.00 (95.70 to 96.70): VV009996.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV009996.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV009996.D (-314) (-)





#13

Acetone

Concen: 51.991 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.01 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

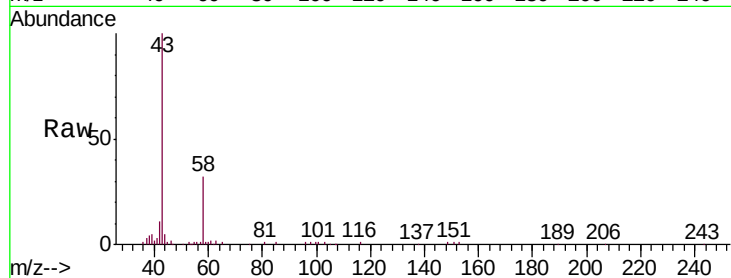
VSTD02573

Tgt Ion: 43 Resp: 48560

Ion Ratio Lower Upper

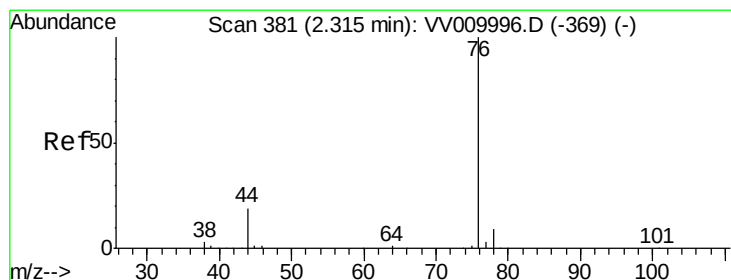
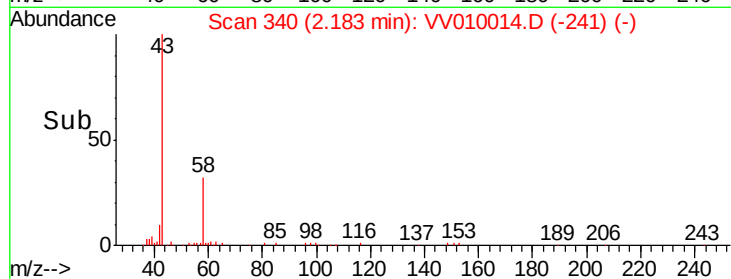
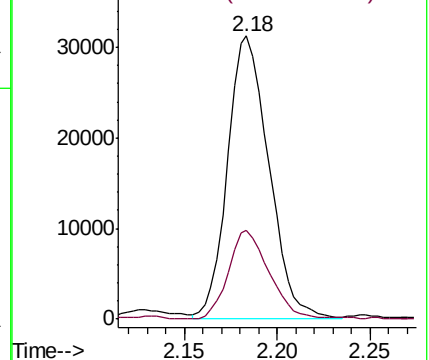
43 100

58 30.8 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 21.225 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV010014.D

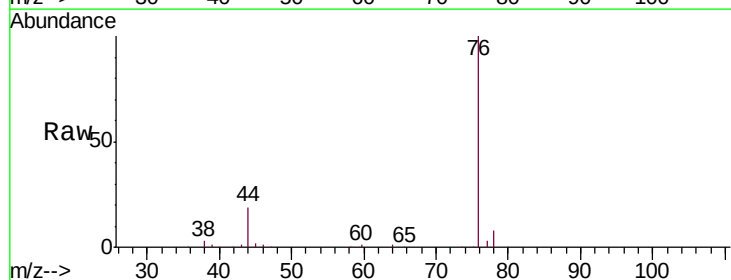
Acq: 29 Mar 2019 21:08

Tgt Ion: 76 Resp: 114599

Ion Ratio Lower Upper

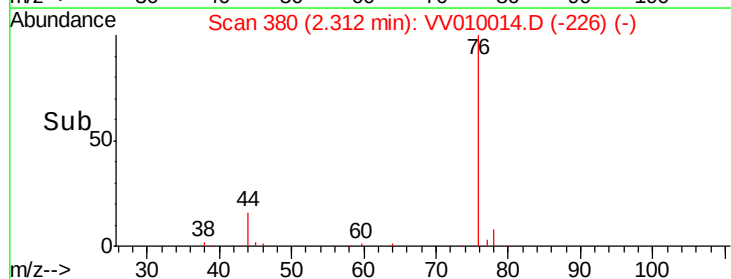
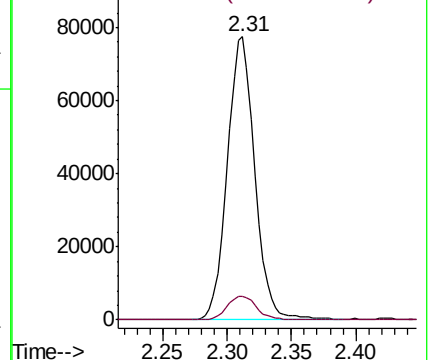
76 100

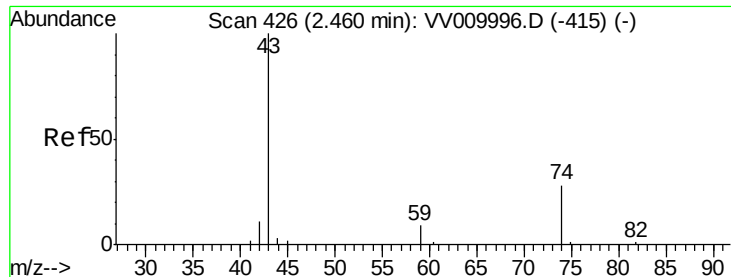
78 8.3 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

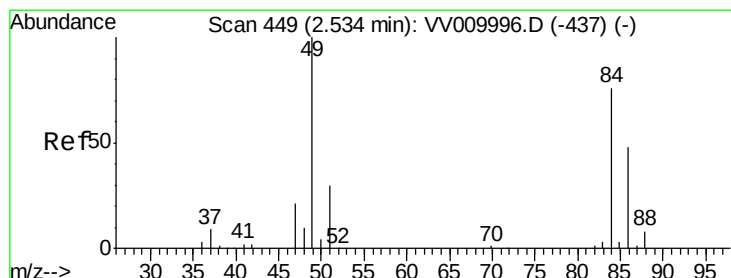
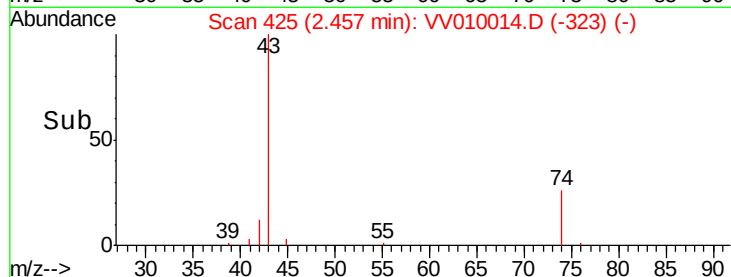
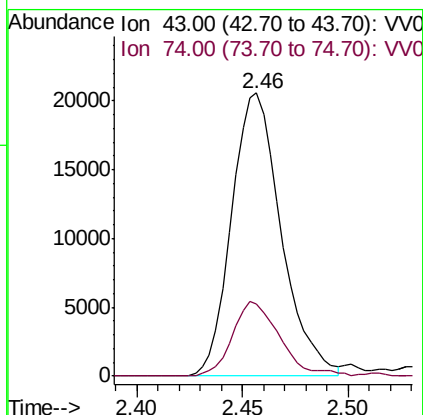
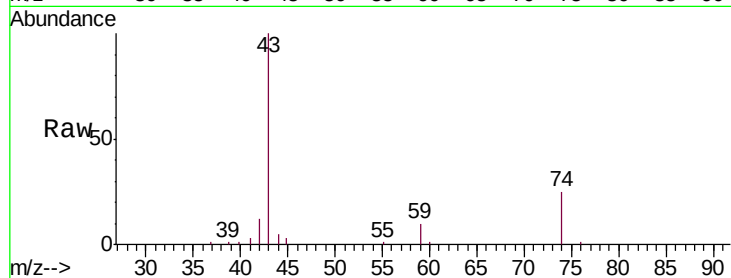




#15
Methyl Acetate
Concen: 30.778 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

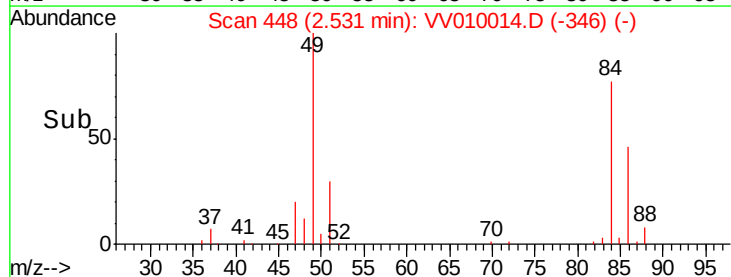
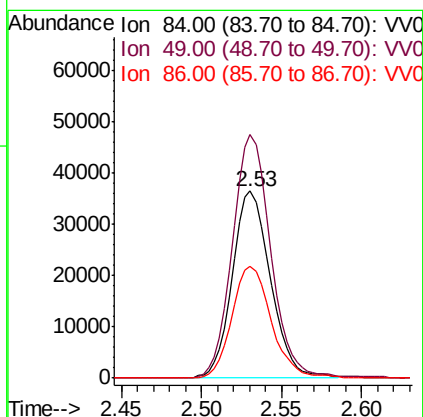
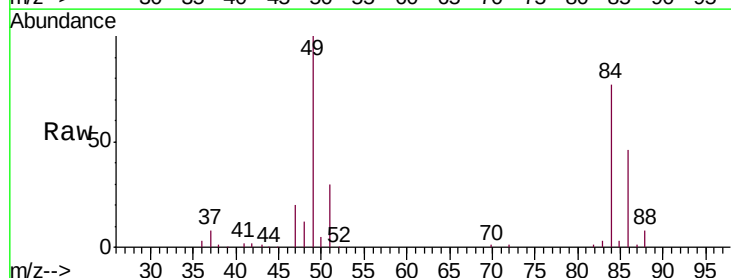
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

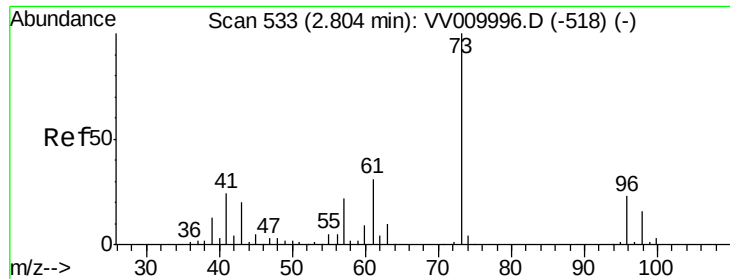
Tgt Ion: 43 Resp: 33673
Ion Ratio Lower Upper
43 100
74 24.2 20.9 31.3



#16
Methylene chloride
Concen: 22.155 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 84 Resp: 59520
Ion Ratio Lower Upper
84 100
49 130.1 90.4 167.8
86 59.7 44.0 81.6

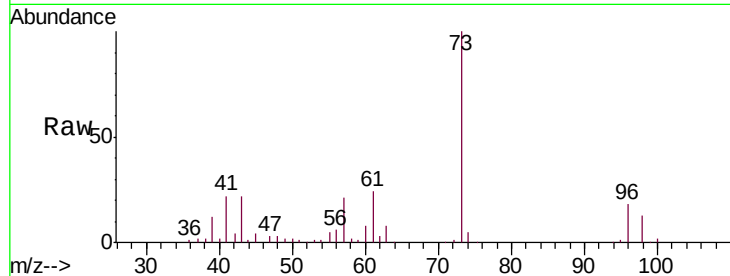




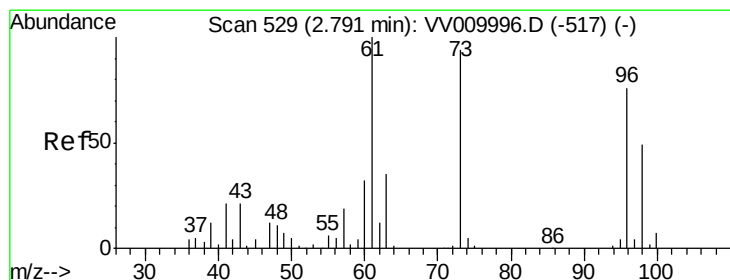
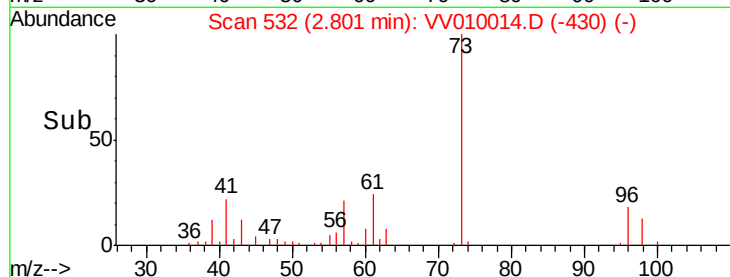
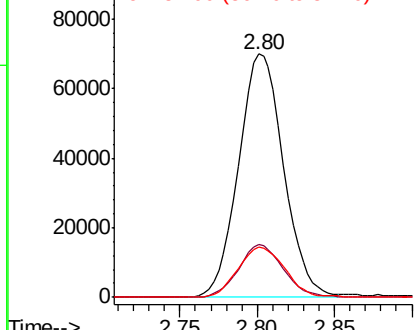
#17
Methyl tert-butyl Ether
Concen: 27.219 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Tgt Ion: 73 Resp: 141736
Ion Ratio Lower Upper
73 100
43 21.5 17.0 25.6
57 21.4 18.0 27.0

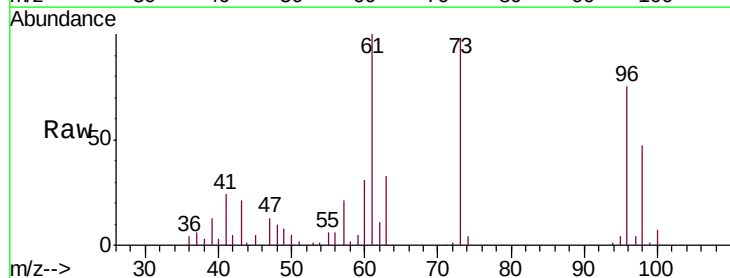


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

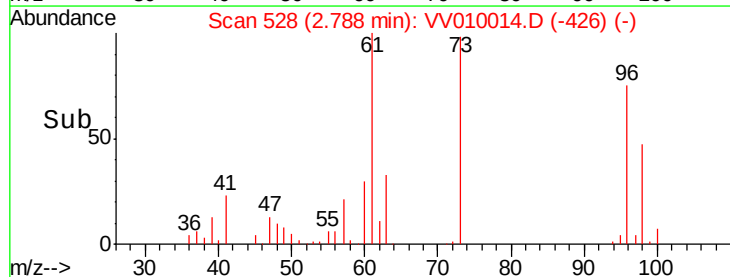
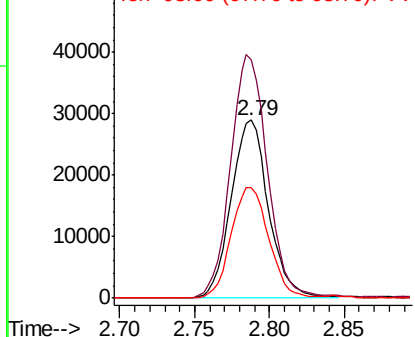


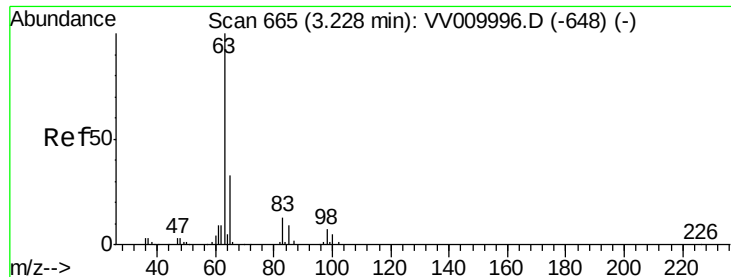
#18
trans-1,2-Dichloroethene
Concen: 23.518 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 96 Resp: 50272
Ion Ratio Lower Upper
96 100
61 133.8 96.8 179.8
98 62.4 46.1 85.7



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

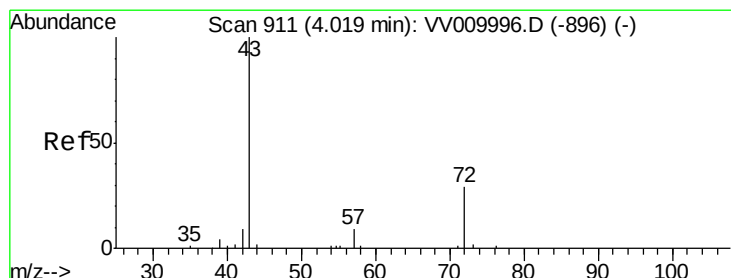
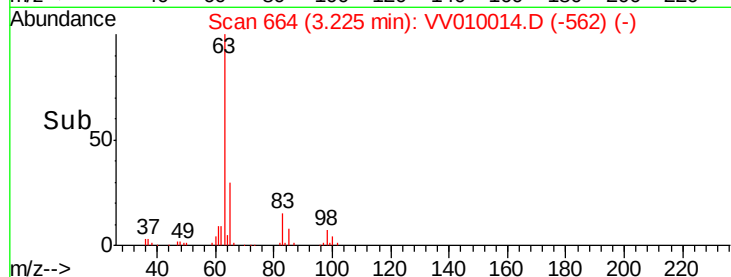
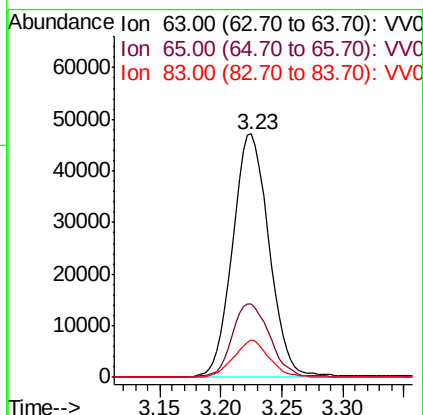
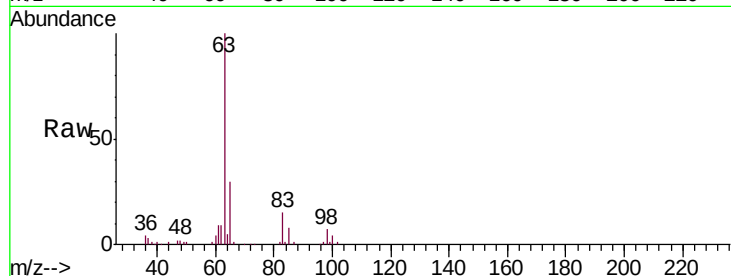




#19
 1,1-Dichloroethane
 Concen: 25.126 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

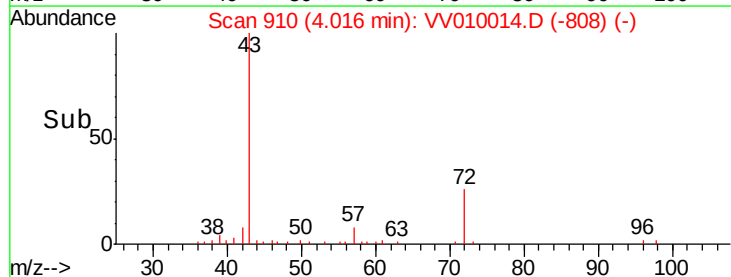
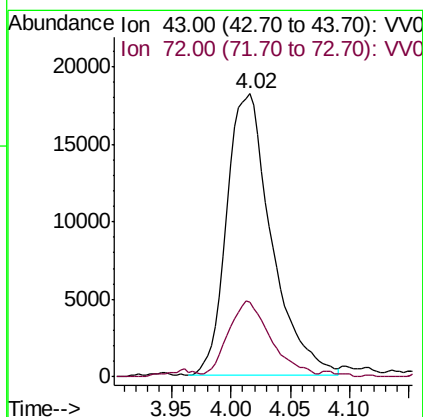
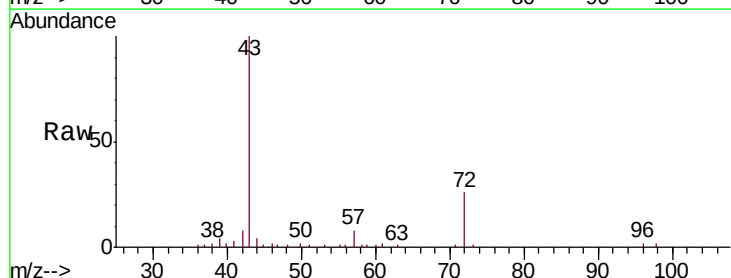
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

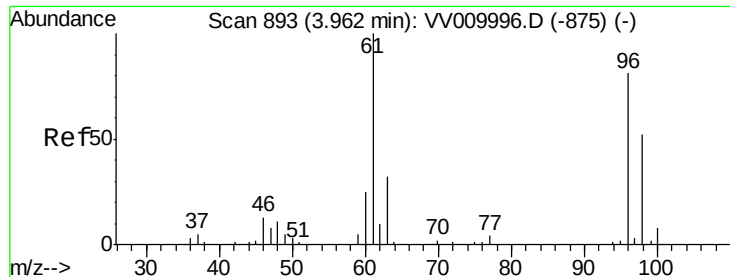
Tgt Ion: 63 Resp: 98222
 Ion Ratio Lower Upper
 63 100
 65 30.0 23.2 43.0
 83 15.2 11.3 21.1



#21
 2-Butanone
 Concen: 57.115 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion: 43 Resp: 47510
 Ion Ratio Lower Upper
 43 100
 72 25.8 11.1 33.1



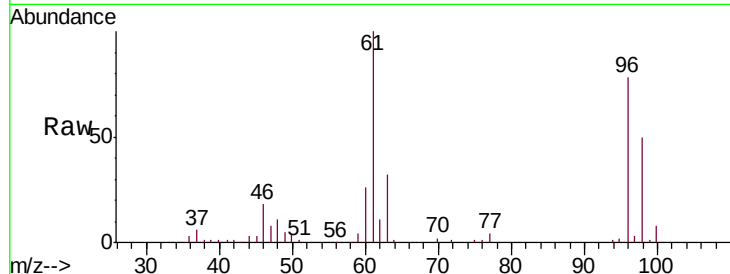


#22

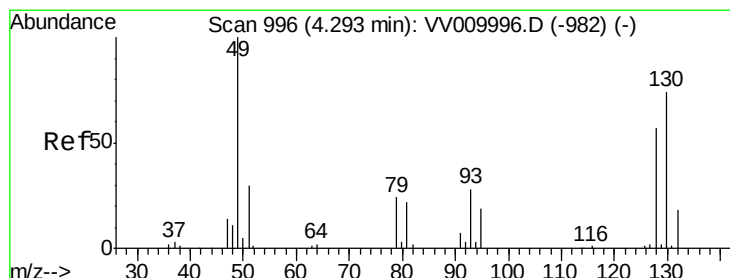
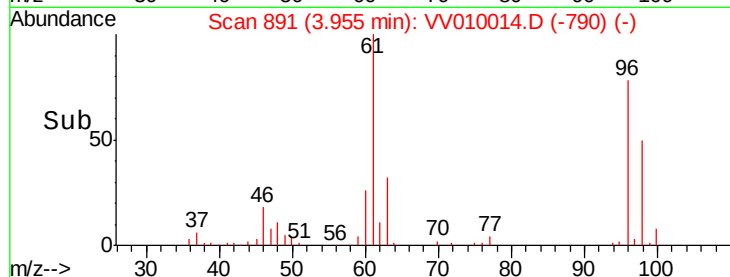
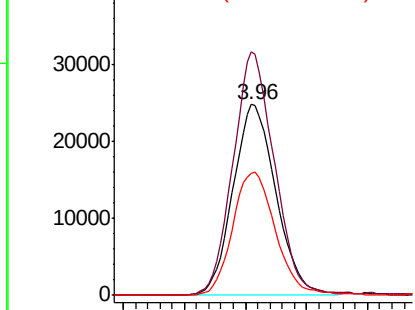
cis-1,2-Dichloroethene
 Concen: 25.593 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tgt Ion: 96 Resp: 60406
 Ion Ratio Lower Upper
 96 100
 61 127.7 91.4 169.8
 98 64.2 48.0 89.2



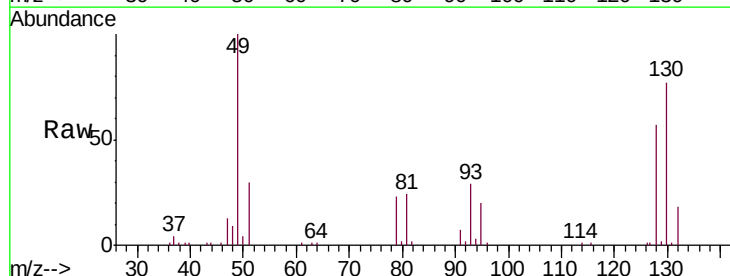
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



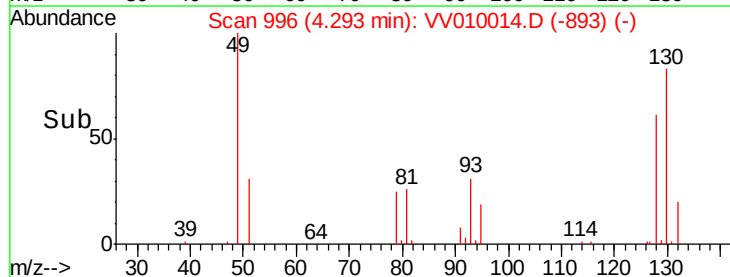
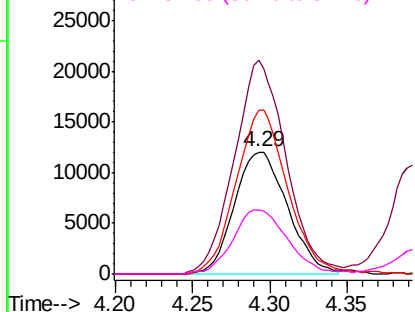
#23

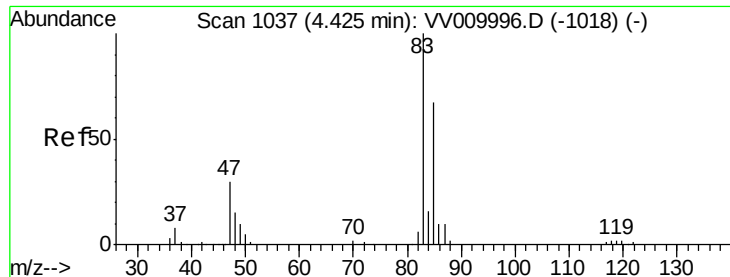
Bromochloromethane
 Concen: 26.326 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion: 128 Resp: 28691
 Ion Ratio Lower Upper
 128 100
 49 175.6 118.2 219.6
 130 134.5 83.4 154.8
 51 52.9 39.4 59.2



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

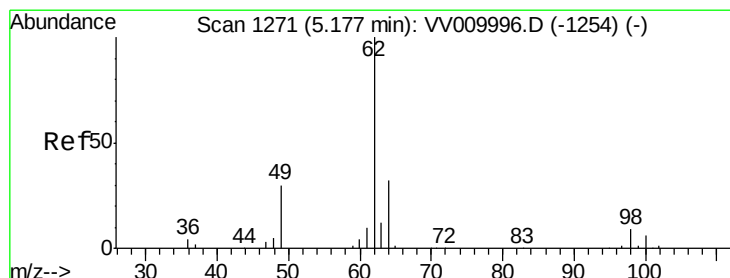
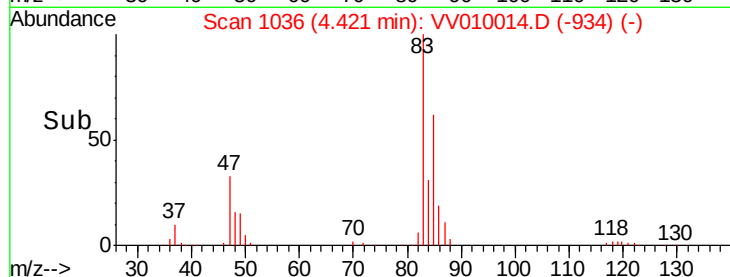
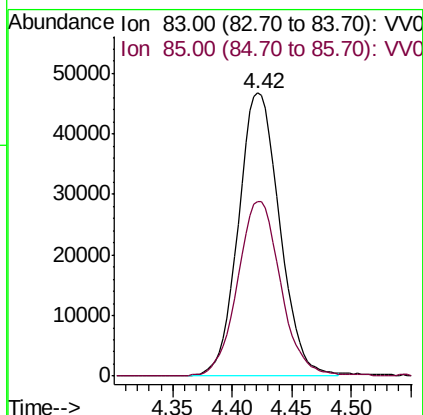
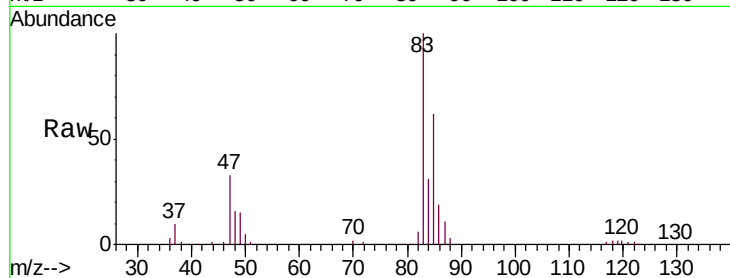




#25
Chloroform
Concen: 26.062 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

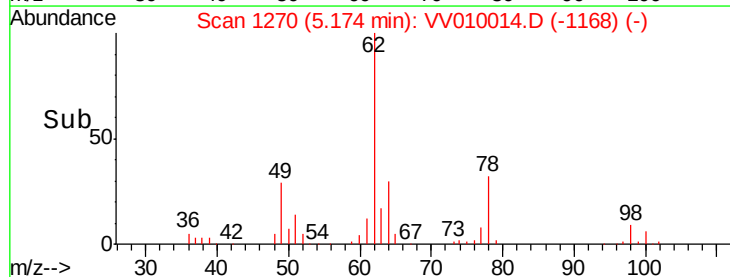
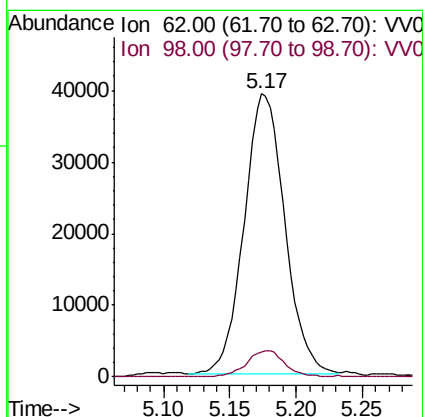
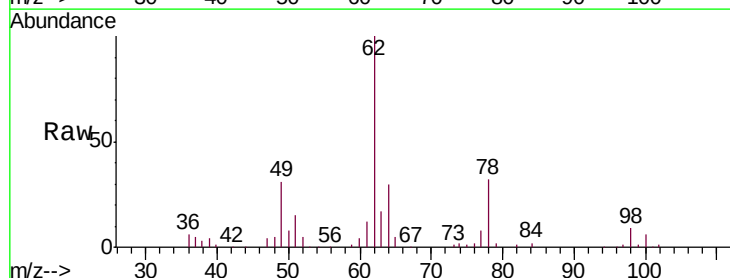
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

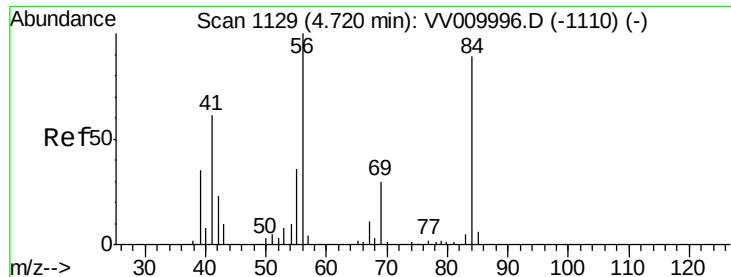
Tgt Ion: 83 Resp: 112644
Ion Ratio Lower Upper
83 100
85 64.3 46.1 85.7



#27
1,2-Dichloroethane
Concen: 27.465 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 62 Resp: 84109
Ion Ratio Lower Upper
62 100
98 8.6 7.2 10.8

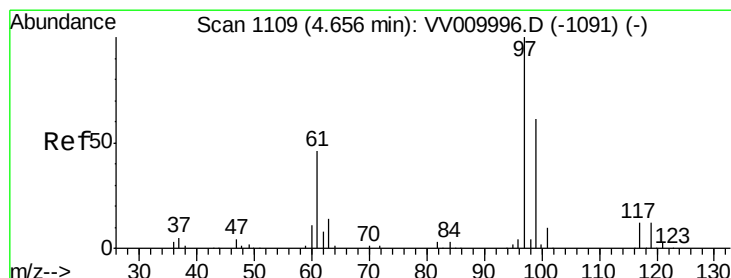
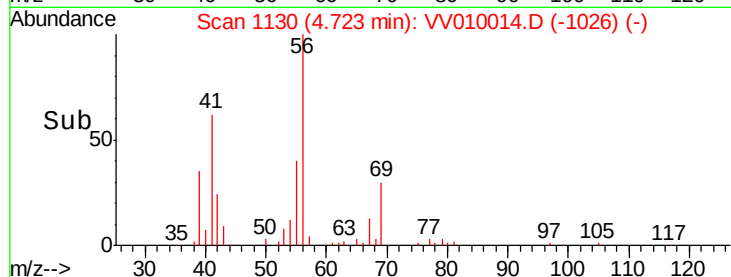
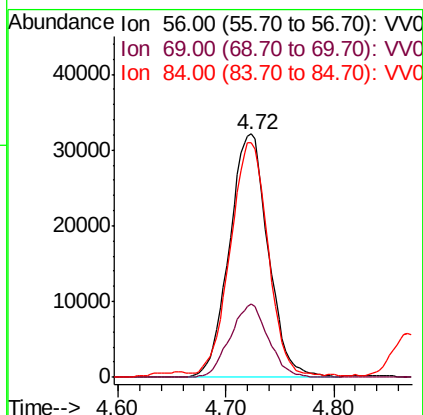
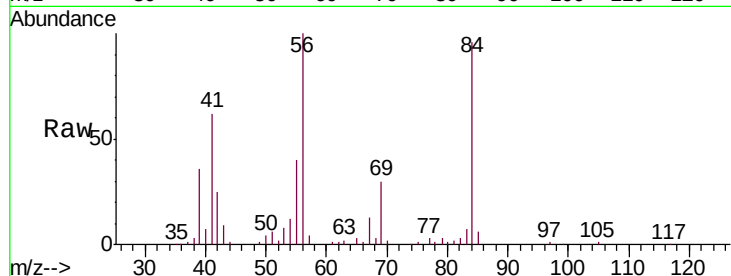




#30
Cyclohexane
Concen: 24.311 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

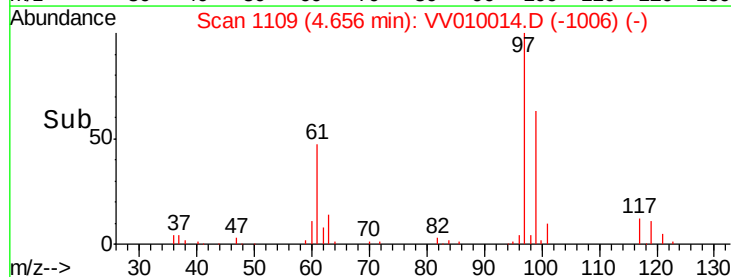
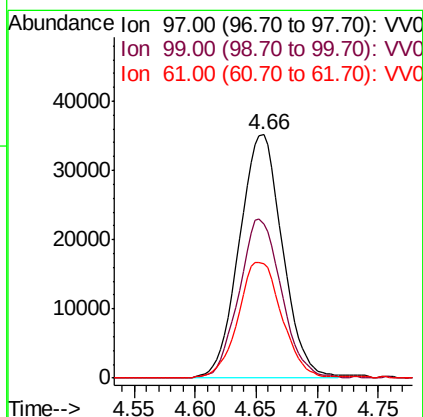
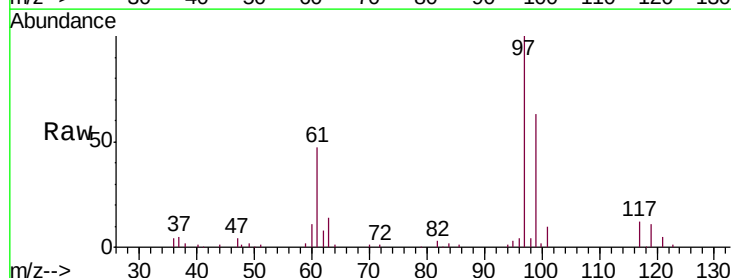
Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

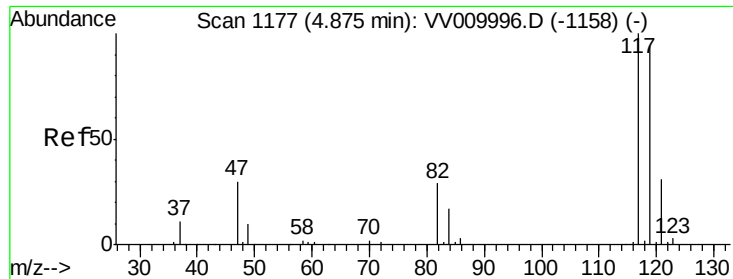
Tgt Ion: 56 Resp: 80517
Ion Ratio Lower Upper
56 100
69 29.6 24.5 36.7
84 92.4 75.6 113.4



#31
1,1,1-Trichloroethane
Concen: 26.202 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 97 Resp: 86131
Ion Ratio Lower Upper
97 100
99 64.3 51.5 77.3
61 48.3 39.4 59.0





#32

Carbon tetrachloride

Concen: 26.059 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

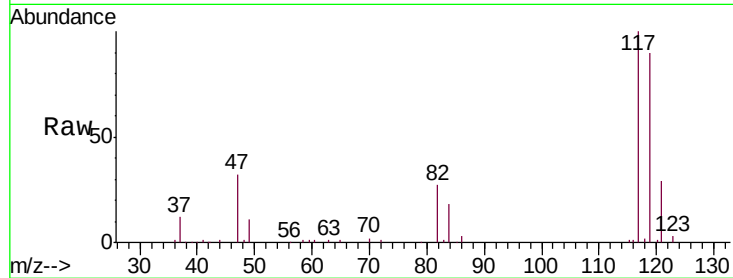
VSTD02573

Tgt Ion:117 Resp: 74456

Ion Ratio Lower Upper

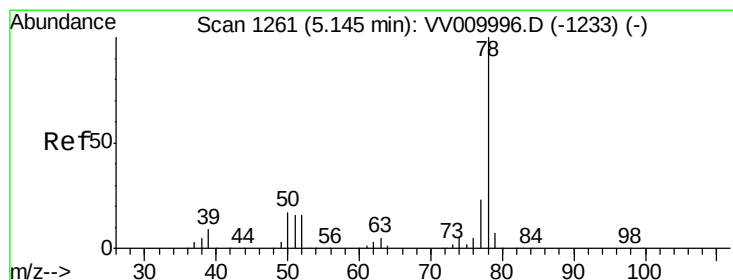
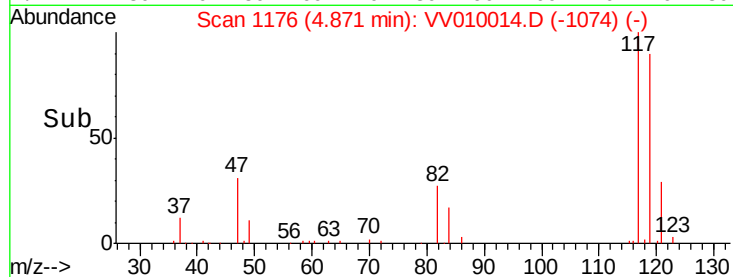
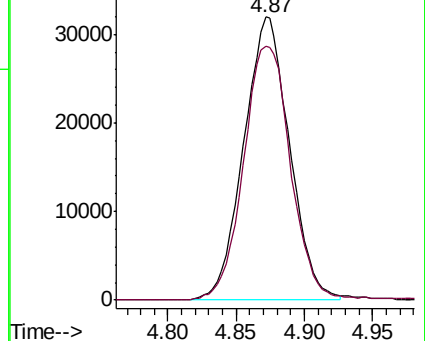
117 100

119 91.8 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 24.912 ug/L

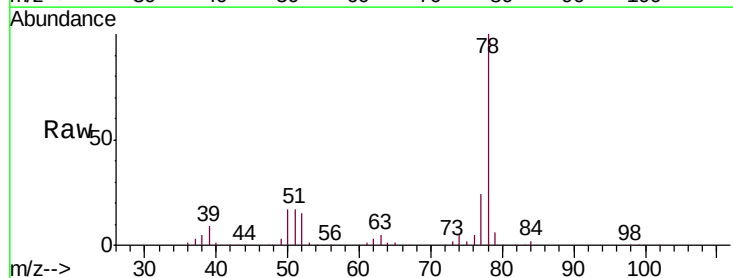
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

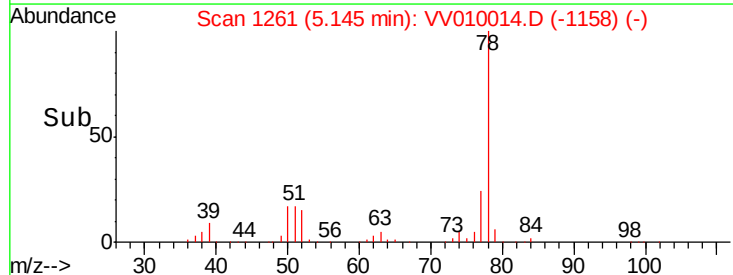
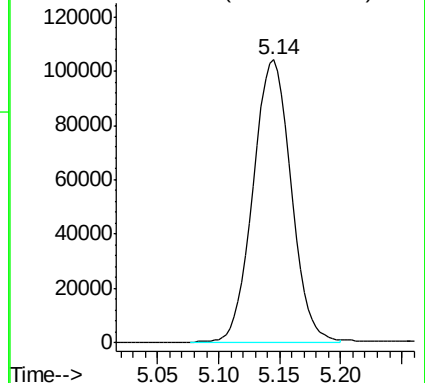
Lab File: VV010014.D

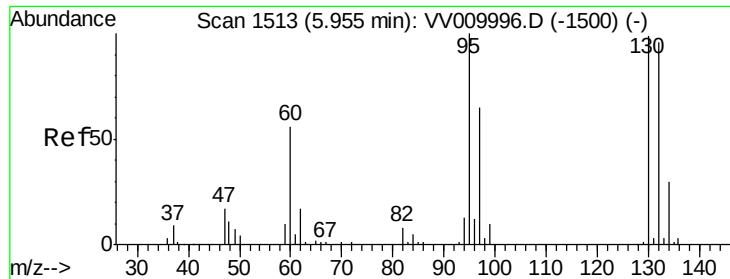
Acq: 29 Mar 2019 21:08

Tgt Ion: 78 Resp: 224701



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.283 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

Tgt Ion: 95 Resp: 57775

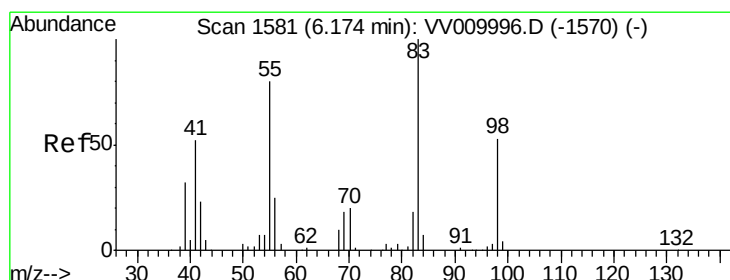
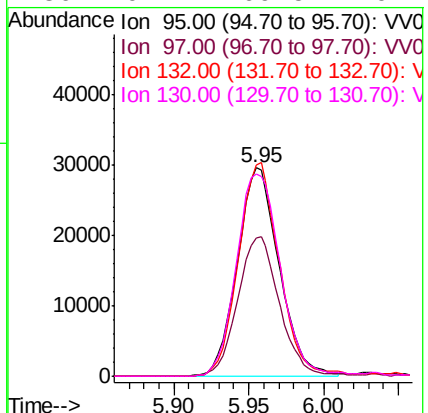
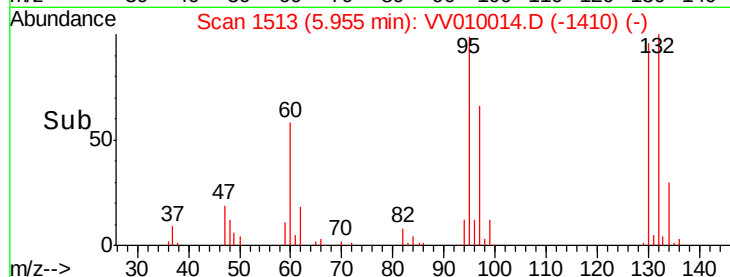
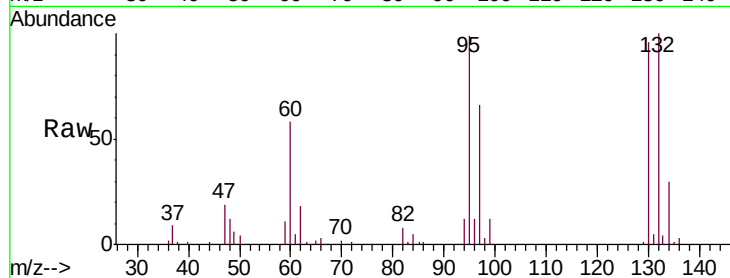
Ion Ratio Lower Upper

95 100

97 66.8 46.3 85.9

132 99.5 69.3 128.7

130 101.2 69.5 129.1



#36

Methylcyclohexane

Concen: 23.566 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

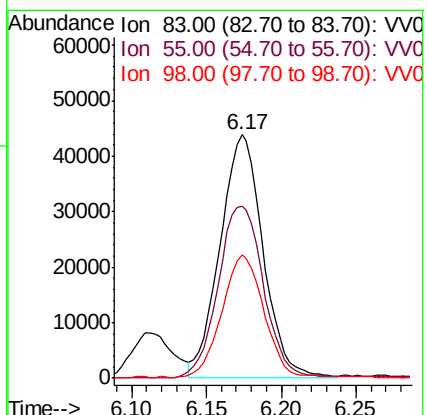
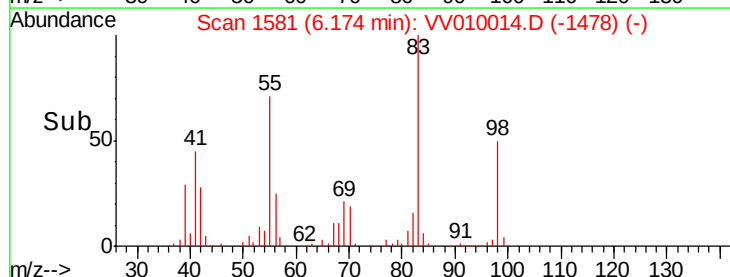
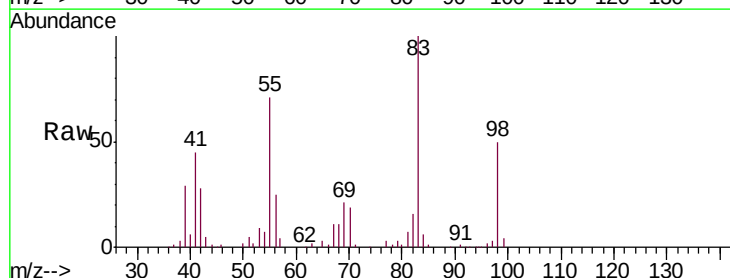
Tgt Ion: 83 Resp: 87970

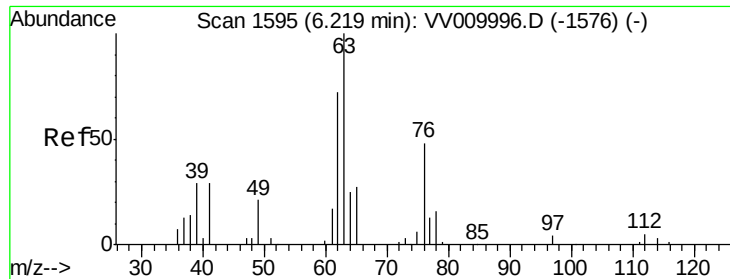
Ion Ratio Lower Upper

83 100

55 74.7 57.3 85.9

98 49.2 39.2 58.8

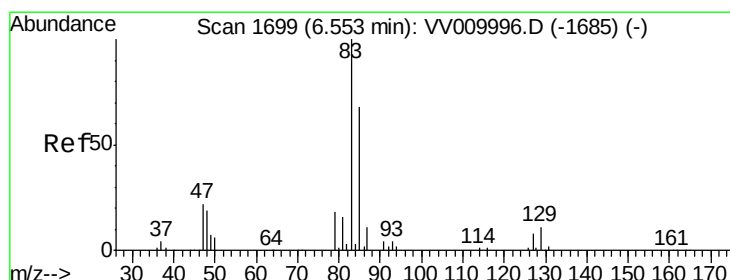
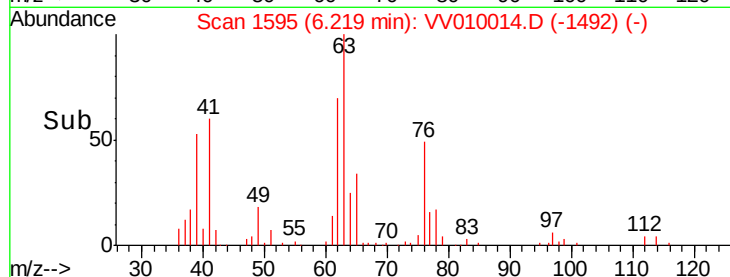
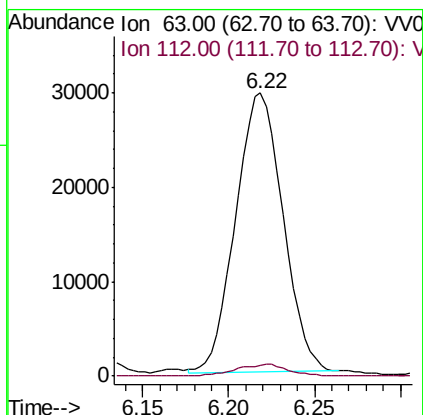
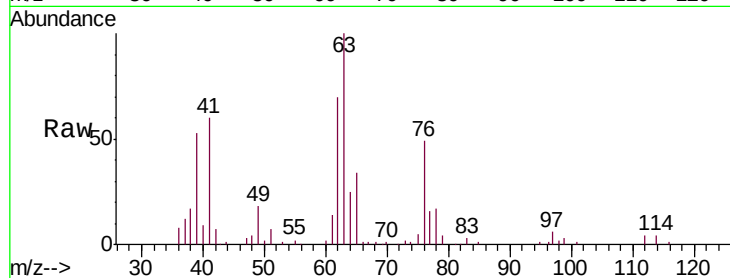




#40
 1,2-Dichloropropane
 Concen: 25.070 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

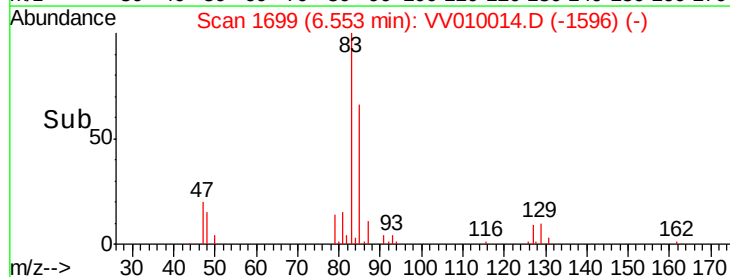
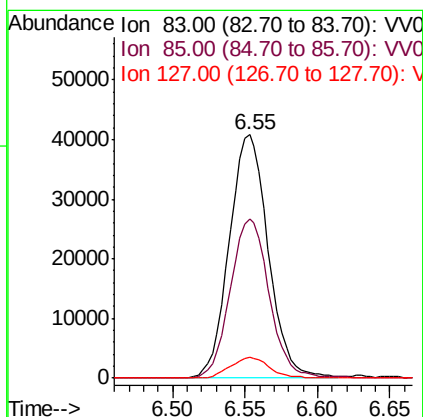
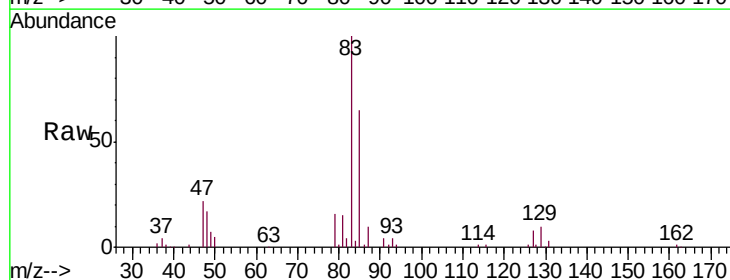
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

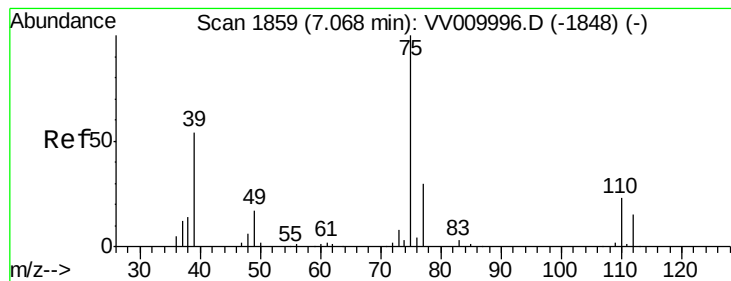
Tgt Ion: 63 Resp: 56506
 Ion Ratio Lower Upper
 63 100
 112 4.6 2.1 3.1#



#41
 Bromodichloromethane
 Concen: 27.175 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion: 83 Resp: 76171
 Ion Ratio Lower Upper
 83 100
 85 65.5 45.6 84.8
 127 8.4 6.2 9.4



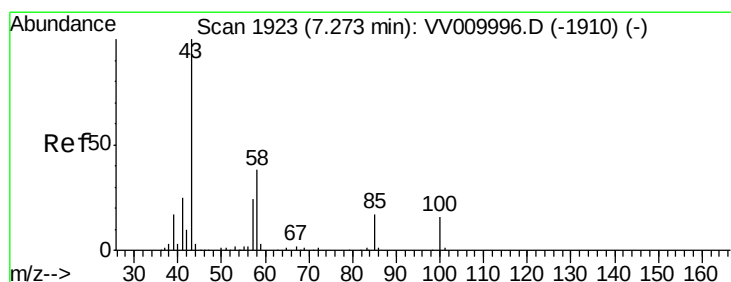
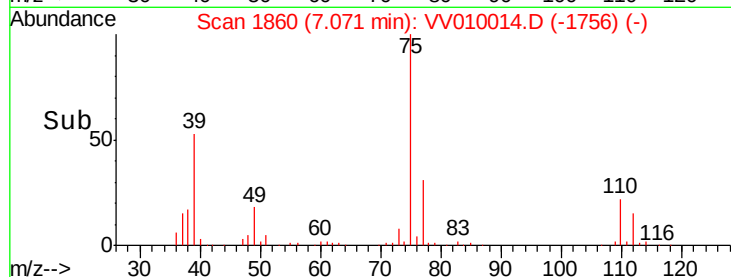
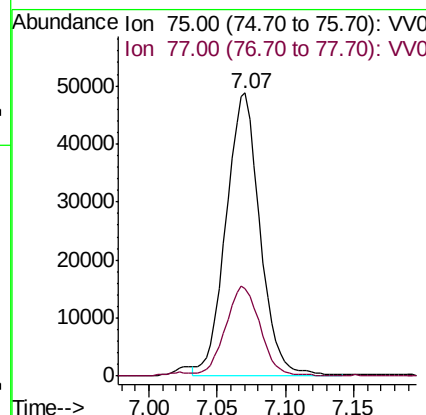
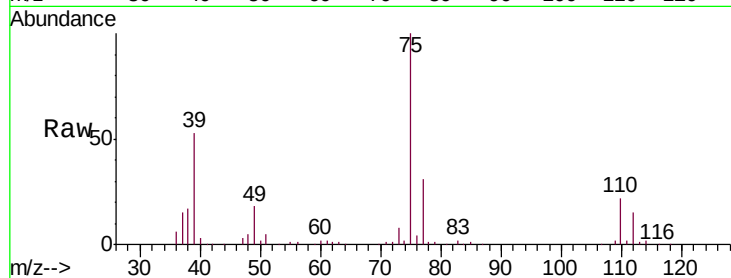


#42

cis-1,3-Dichloropropene
 Concen: 25.796 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02573

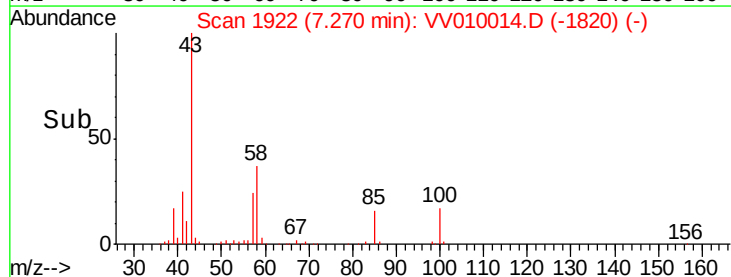
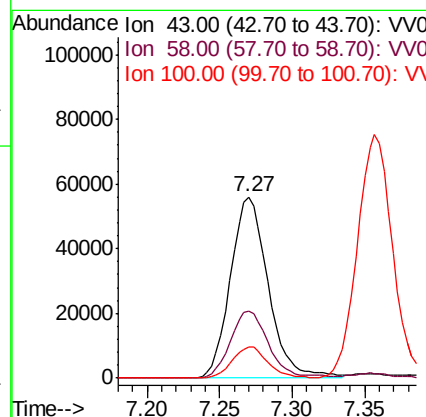
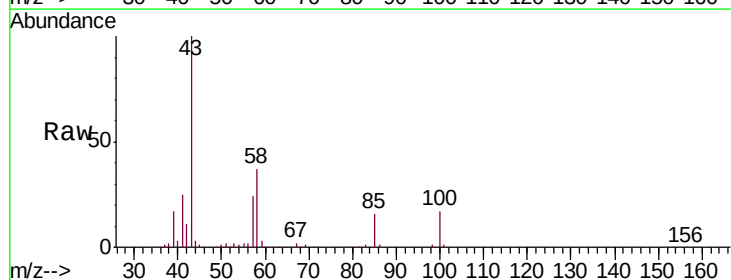
Tgt Ion: 75 Resp: 84769
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.8 40.6

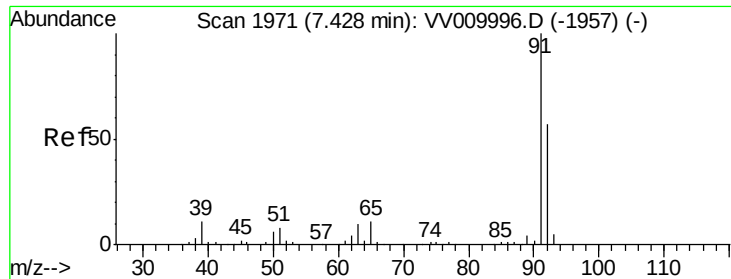


#43

4-Methyl-2-pentanone
 Concen: 62.975 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion: 43 Resp: 101291
 Ion Ratio Lower Upper
 43 100
 58 37.5 29.4 44.2
 100 16.3 12.2 18.4





#44

Toluene

Concen: 24.816 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

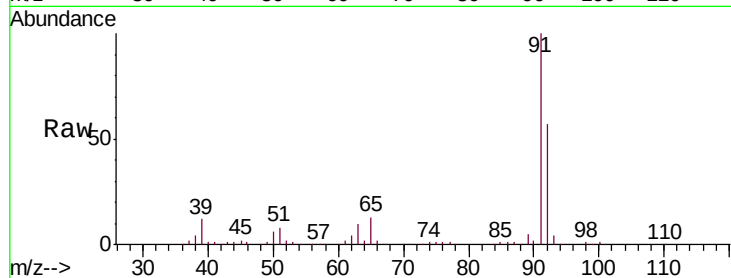
VSTD02573

Tgt Ion: 91 Resp: 246764

Ion Ratio Lower Upper

91 100

92 57.3 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.43

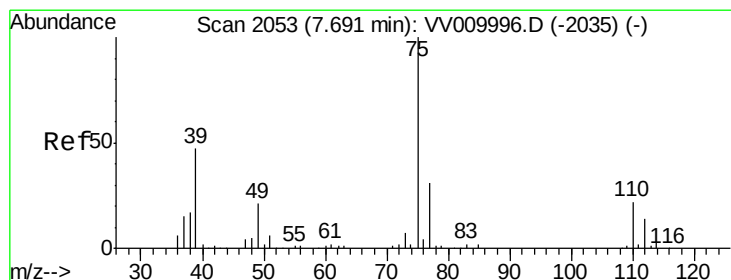
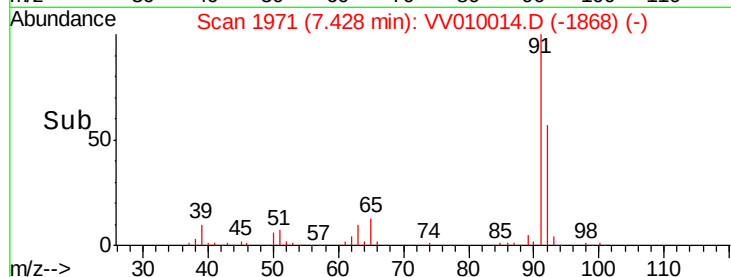
150000

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 27.370 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV010014.D

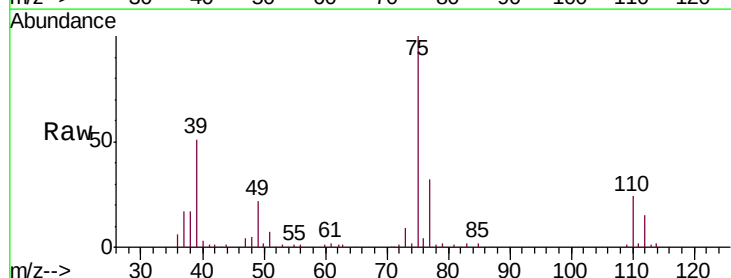
Acq: 29 Mar 2019 21:08

Tgt Ion: 75 Resp: 73626

Ion Ratio Lower Upper

75 100

77 31.6 20.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

50000

40000

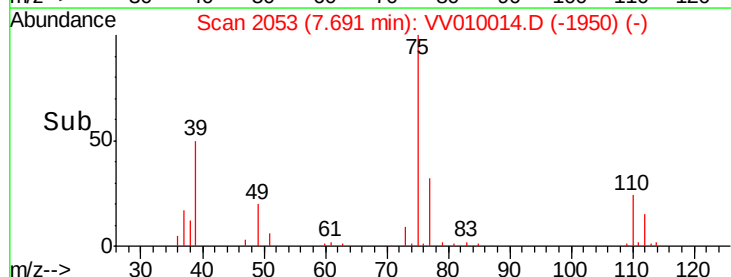
30000

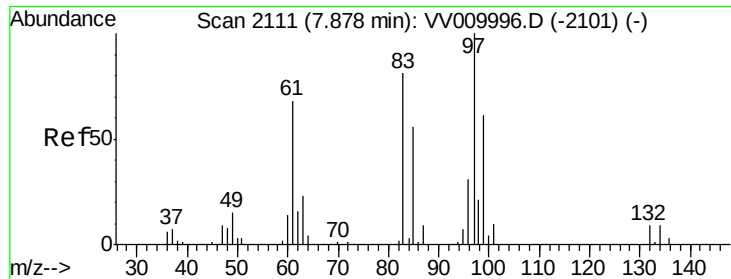
20000

10000

0

Time-->

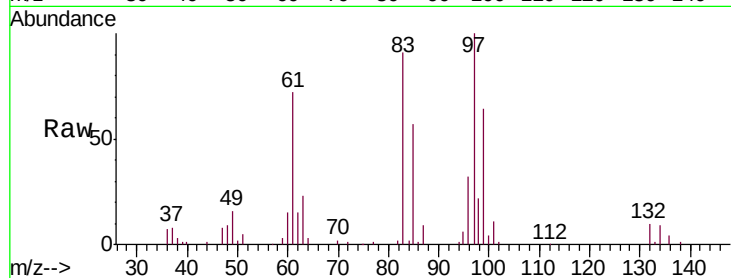




#46
 1,1,2-Trichloroethane
 Concen: 27.136 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

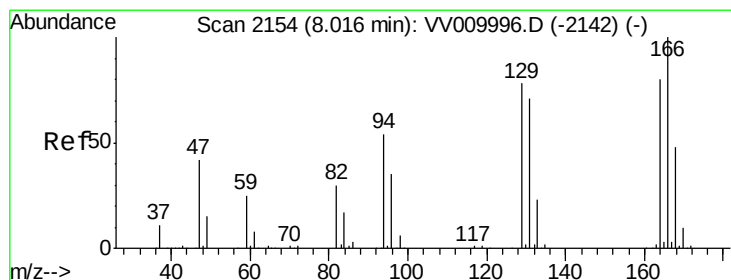
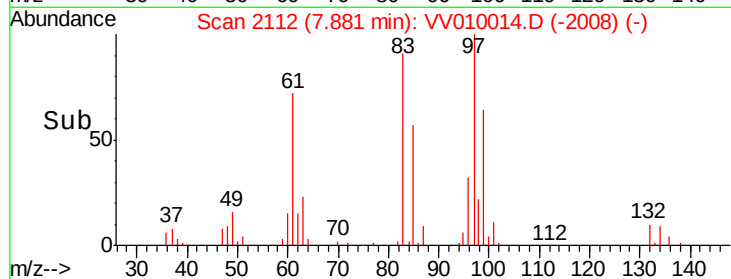
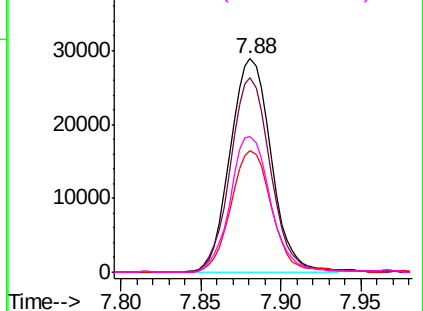
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tgt Ion: 97 Resp: 50584
 Ion Ratio Lower Upper
 97 100
 83 91.1 59.6 110.8
 85 56.7 39.2 72.8
 99 63.6 42.6 79.2



Abundance

Ion 97.00 (96.70 to 97.70): VV0

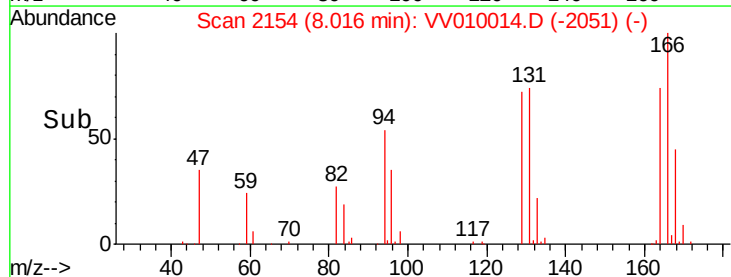
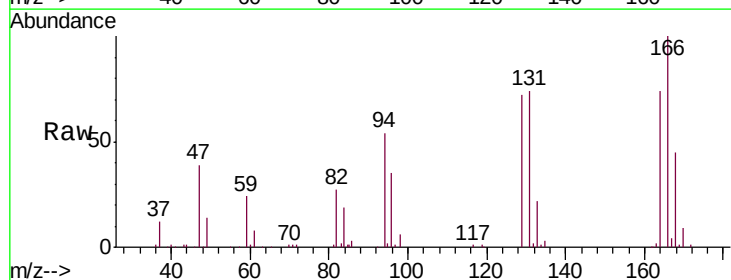
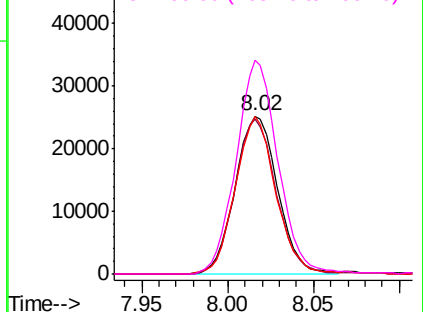


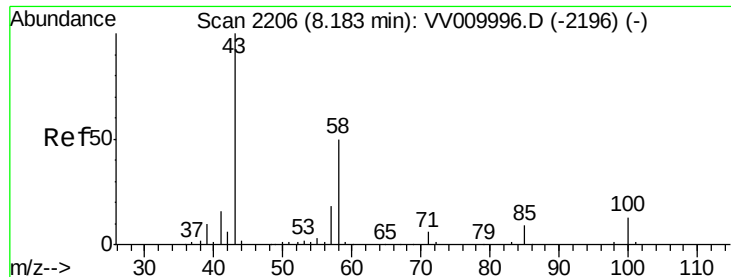
#47
 Tetrachloroethene
 Concen: 23.011 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion: 164 Resp: 43202
 Ion Ratio Lower Upper
 164 100
 129 98.0 64.9 120.5
 131 99.7 62.0 115.2
 166 135.5 82.9 153.9

Abundance

Ion 164.00 (163.70 to 164.70): V

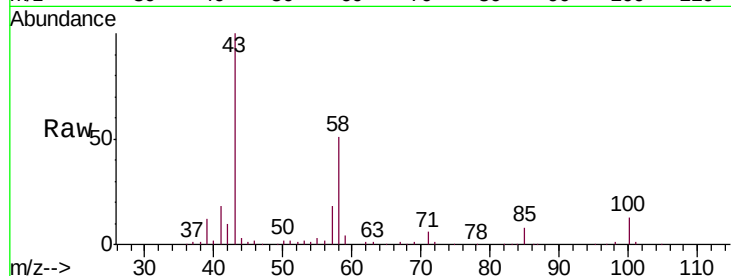




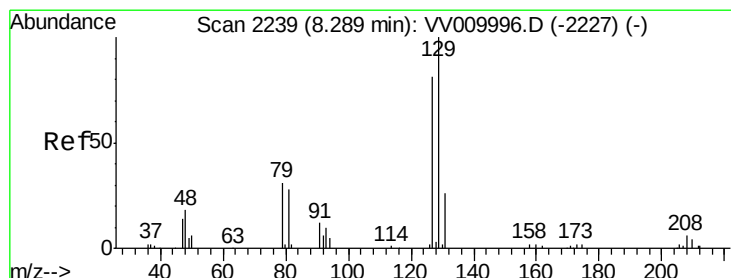
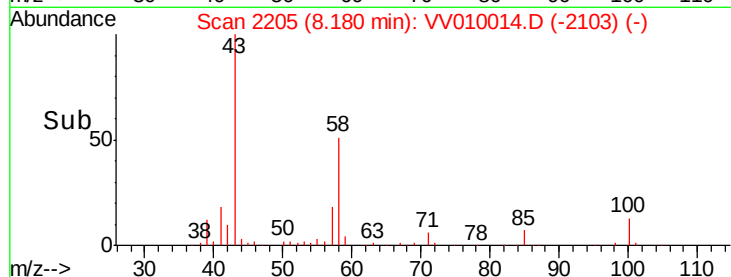
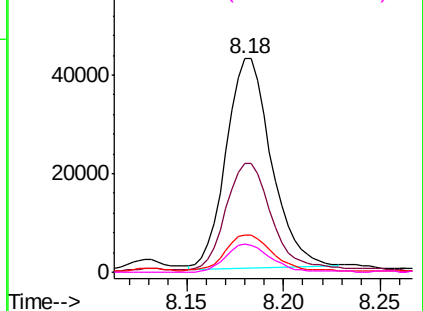
#49
2-Hexanone
Concen: 63.912 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02573

Tgt Ion: 43 Resp: 69476
Ion Ratio Lower Upper
43 100
58 51.8 42.0 63.0
57 17.5 12.9 19.3
100 13.2 9.1 13.7

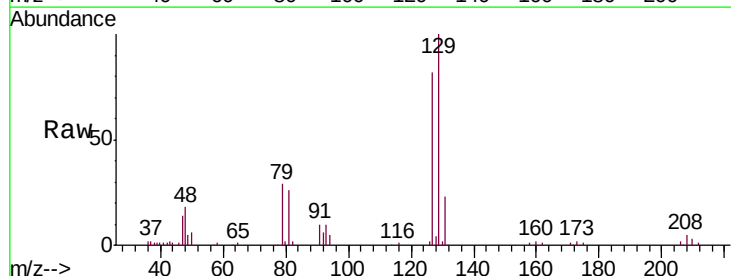


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

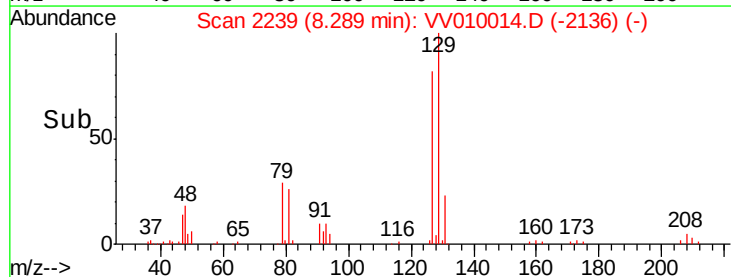
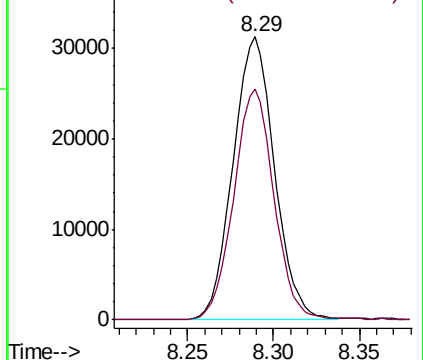


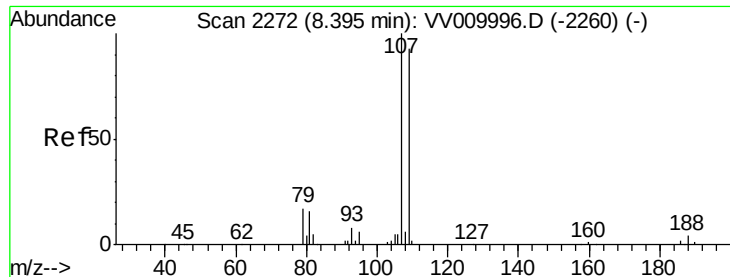
#50
Dibromochloromethane
Concen: 27.127 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV010014.D
Acq: 29 Mar 2019 21:08

Tgt Ion: 129 Resp: 52434
Ion Ratio Lower Upper
129 100
127 81.8 57.9 107.5



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 27.227 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

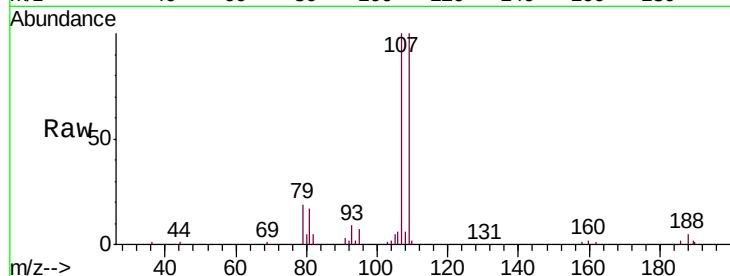
Tgt Ion:107 Resp: 49281

Ion Ratio Lower Upper

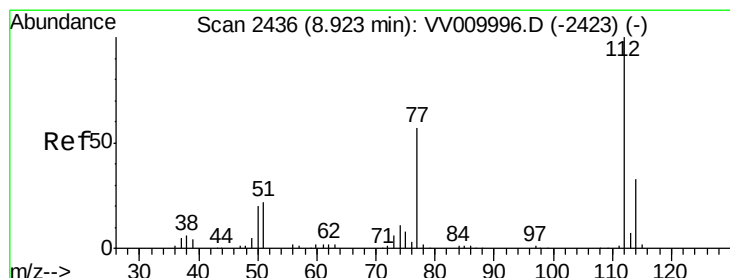
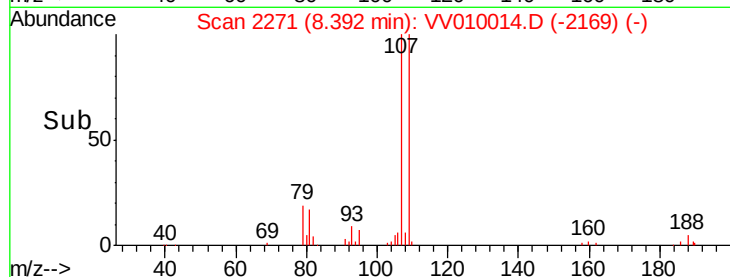
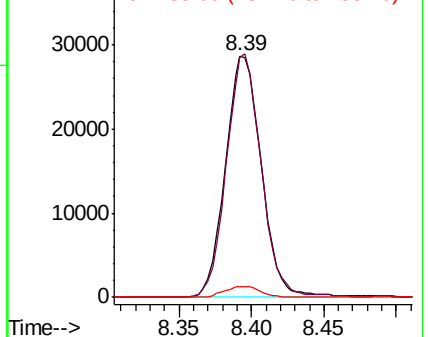
107 100

109 99.6 61.8 114.8

188 4.6 3.5 5.3



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: 24.438 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

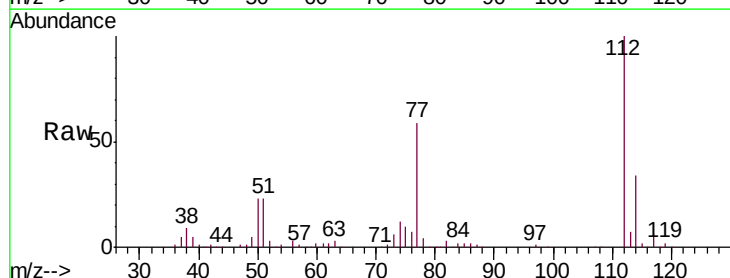
Tgt Ion:112 Resp: 161773

Ion Ratio Lower Upper

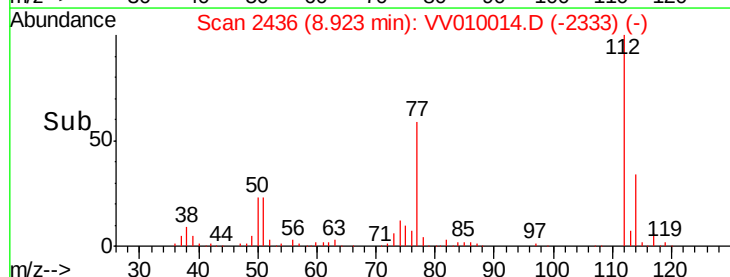
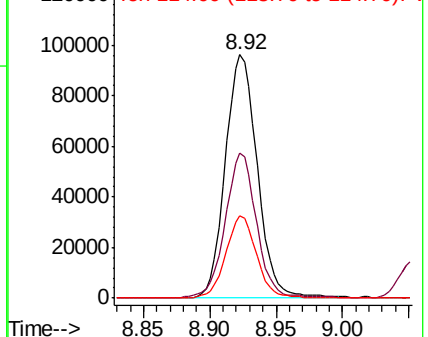
112 100

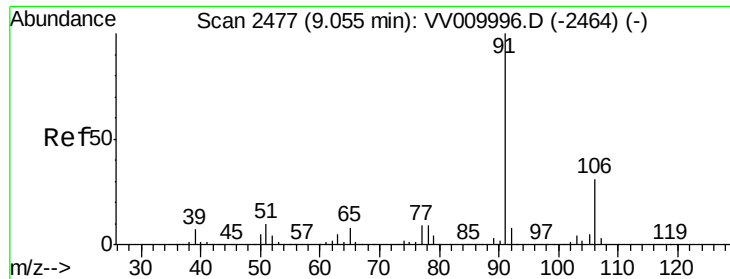
77 59.5 46.8 70.2

114 33.6 22.3 41.5



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





#53

Ethylbenzene

Concen: 24.422 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

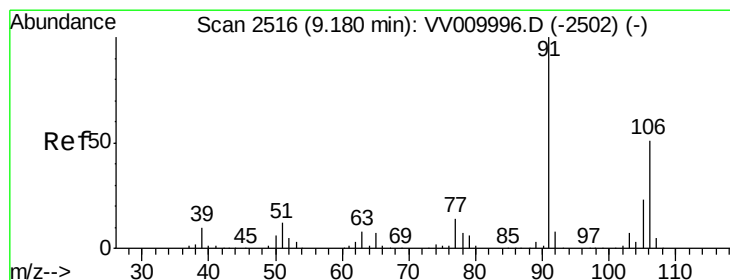
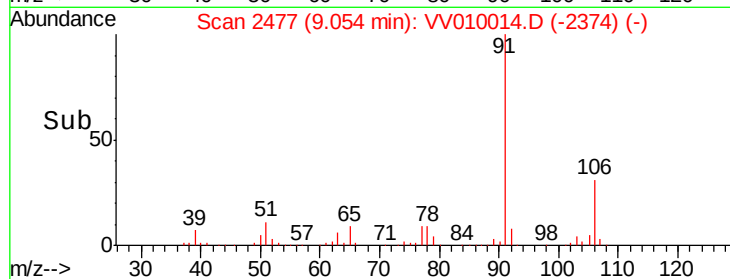
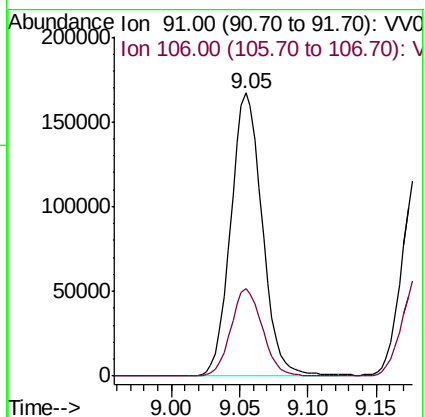
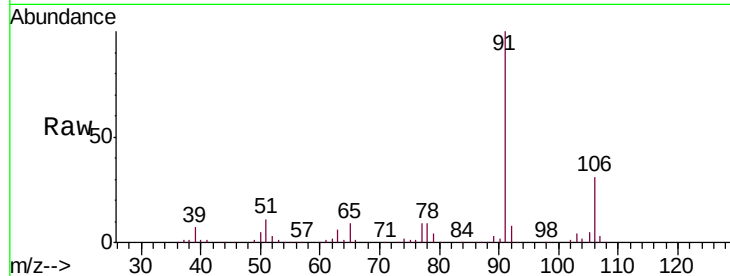
VSTD02573

Tgt Ion: 91 Resp: 267886

Ion Ratio Lower Upper

91 100

106 30.9 22.3 41.3



#54

m,p-Xylene

Concen: 23.664 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010014.D

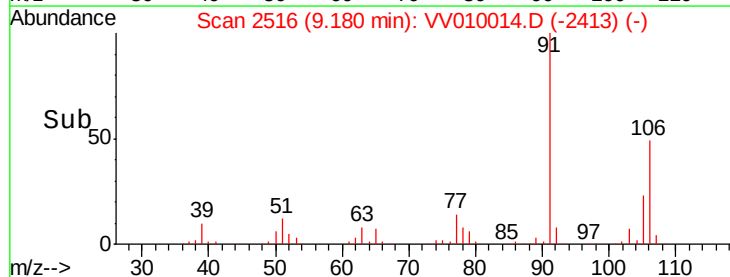
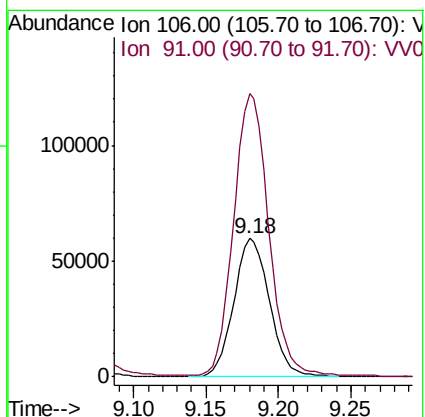
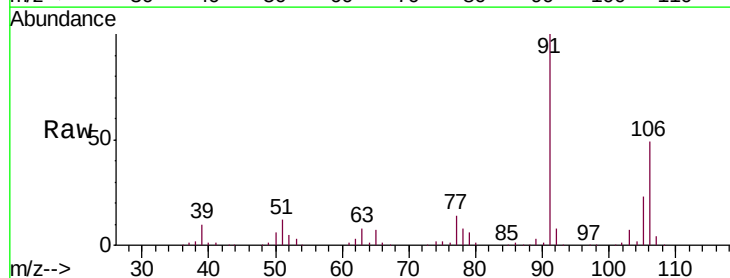
Acq: 29 Mar 2019 21:08

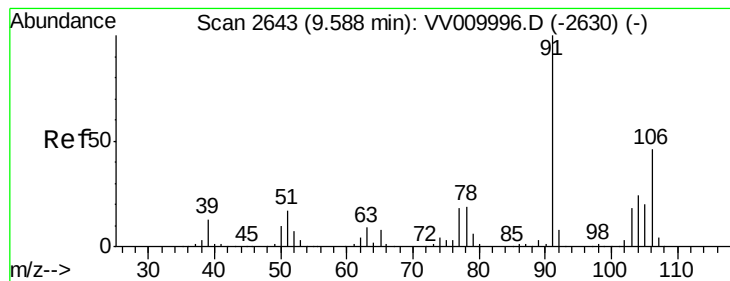
Tgt Ion: 106 Resp: 101949

Ion Ratio Lower Upper

106 100

91 204.4 130.0 241.4





#55

o-xylene

Concen: 24.343 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

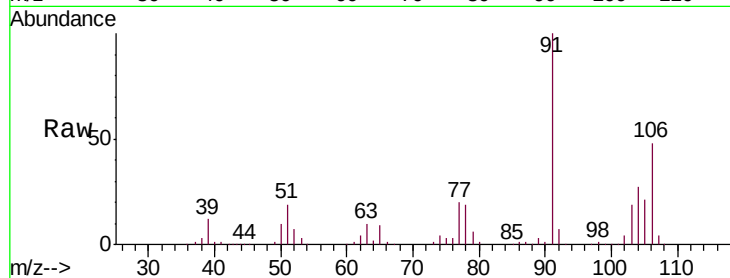
VSTD02573

Tgt Ion:106 Resp: 101796

Ion Ratio Lower Upper

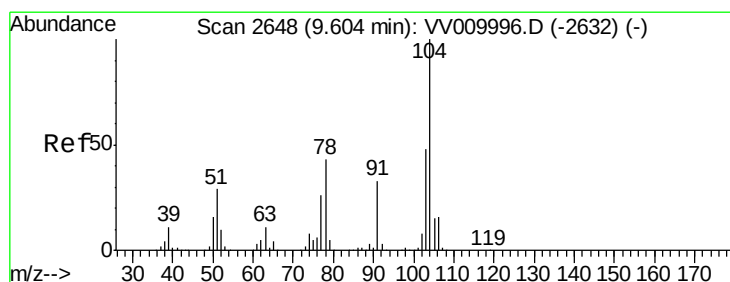
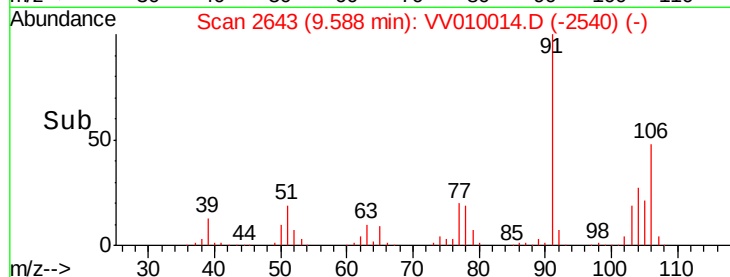
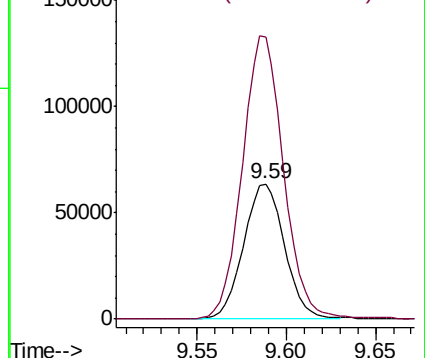
106 100

91 209.1 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 24.225 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV010014.D

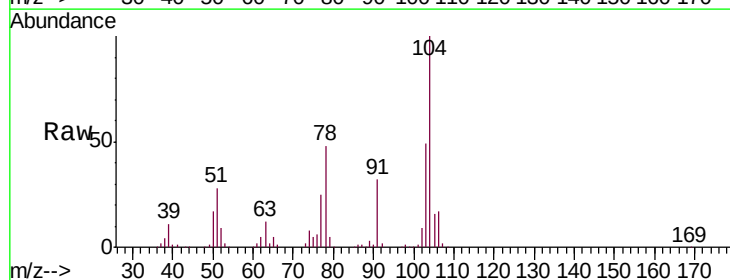
Acq: 29 Mar 2019 21:08

Tgt Ion:104 Resp: 174000

Ion Ratio Lower Upper

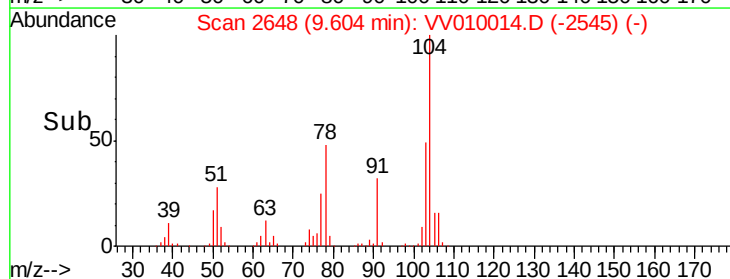
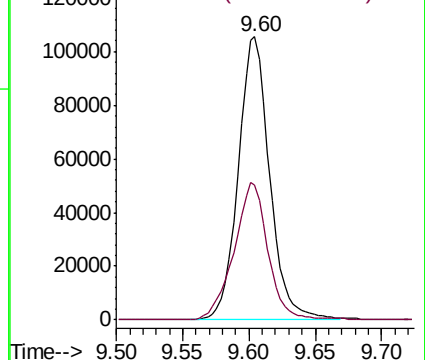
104 100

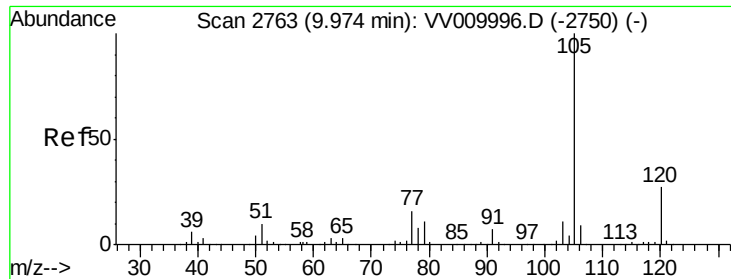
78 47.7 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 23.734 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

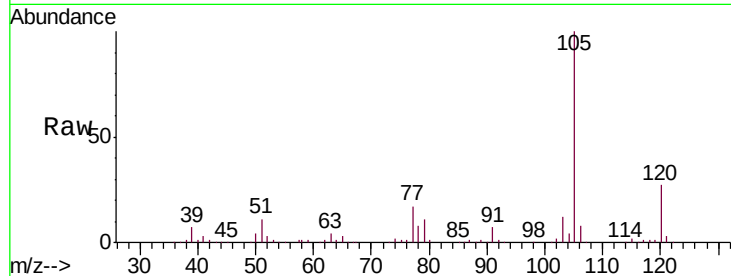
Tgt Ion: 105 Resp: 257475

Ion Ratio Lower Upper

105 100

120 27.4 20.8 31.2

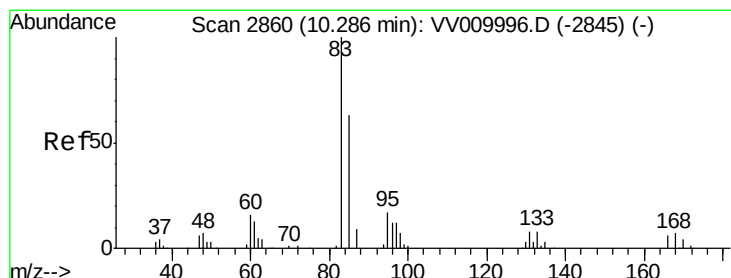
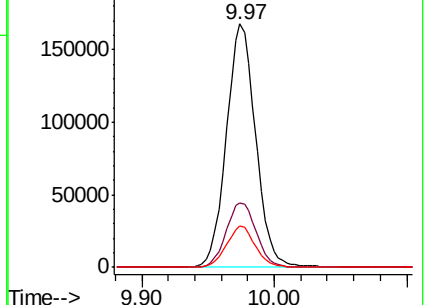
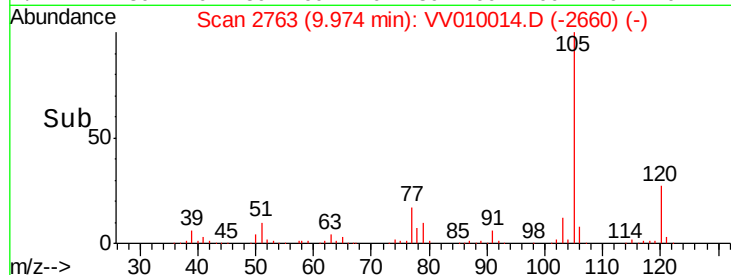
77 16.8 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): VV010014.D (-2660) (-)

Ion 120.00 (119.70 to 120.70): VV010014.D (-2660) (-)

Ion 77.00 (76.70 to 77.70): VV010014.D (-2660) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 28.463 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

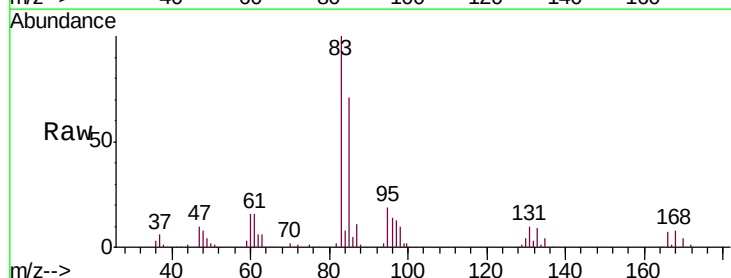
Tgt Ion: 83 Resp: 71518

Ion Ratio Lower Upper

83 100

85 70.6 45.8 85.0

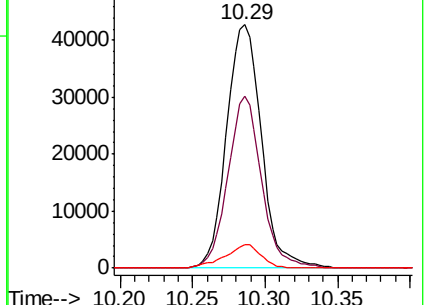
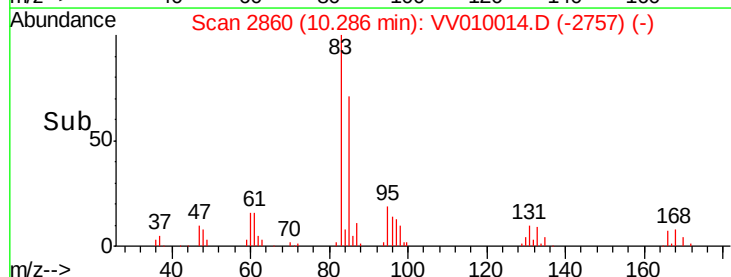
131 9.8 6.2 9.4#

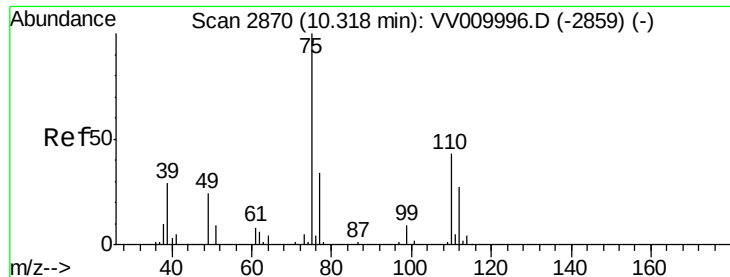


Abundance Ion 83.00 (82.70 to 83.70): VV010014.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV010014.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV010014.D (-2757) (-)





#59

1,2,3-Trichloropropane

Concen: 28.955 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

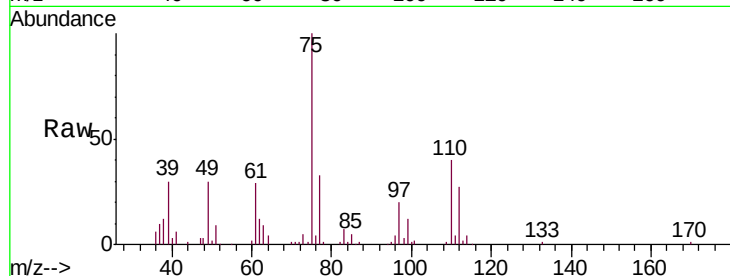
VSTD02573

Tgt Ion: 75 Resp: 52509

Ion Ratio Lower Upper

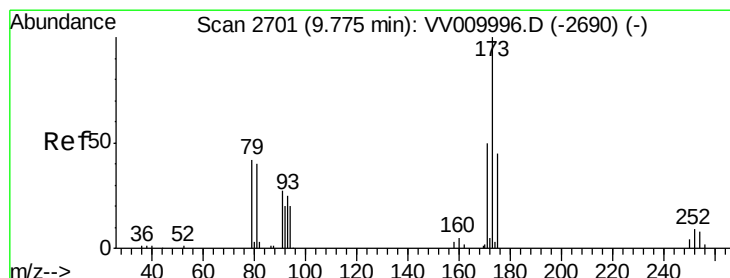
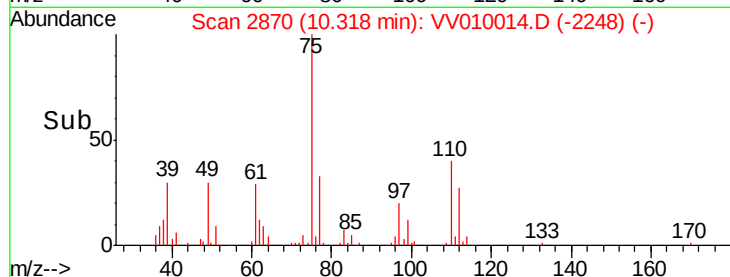
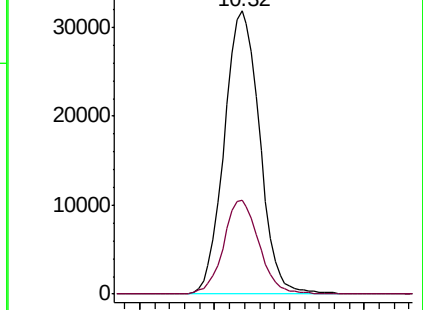
75 100

77 33.2 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VV009996.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009996.D (-2859) (-)



#62

Bromoform

Concen: 27.747 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

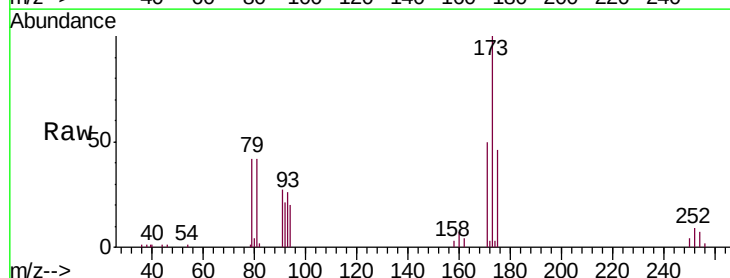
Tgt Ion: 173 Resp: 28593

Ion Ratio Lower Upper

173 100

175 47.5 37.8 56.8

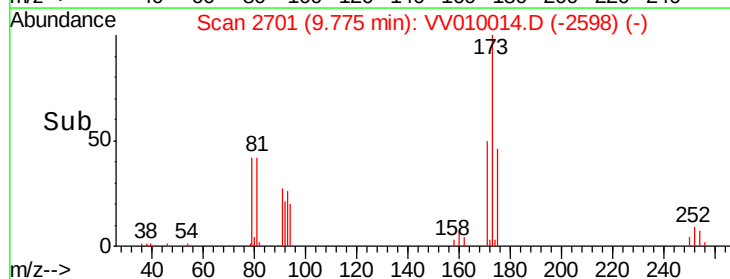
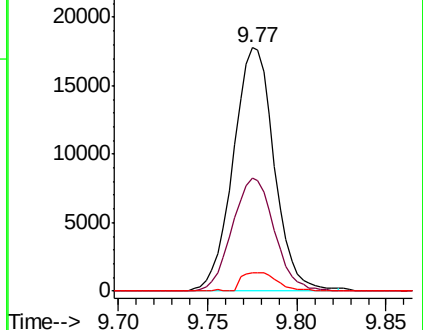
254 6.6 6.6 9.8

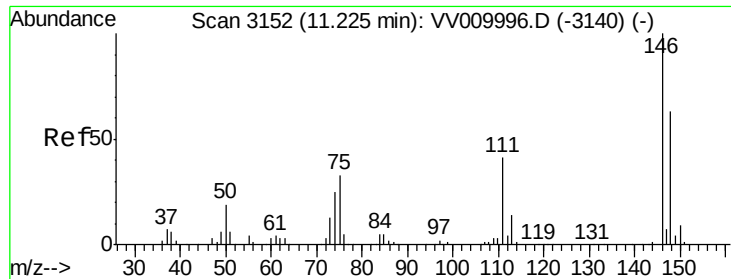


Abundance Ion 173.00 (172.70 to 173.70): VV009996.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009996.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009996.D (-2690) (-)

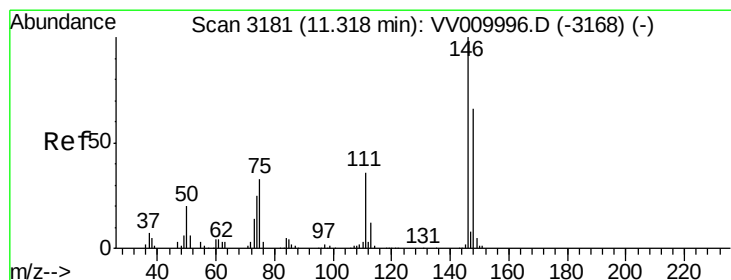
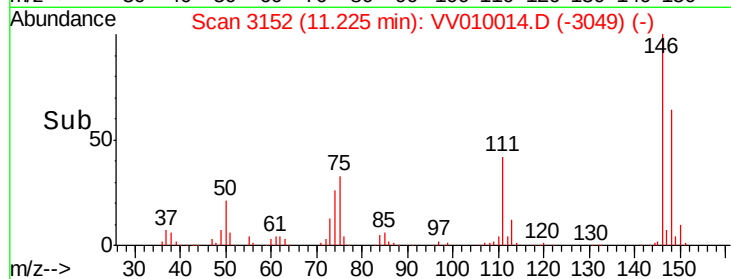
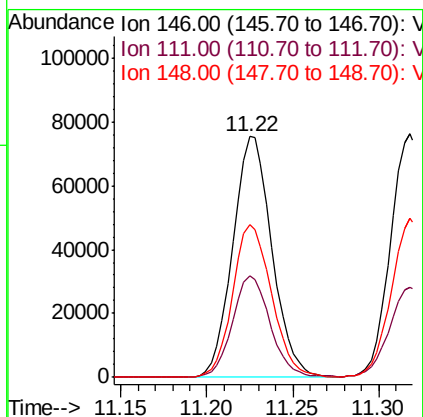
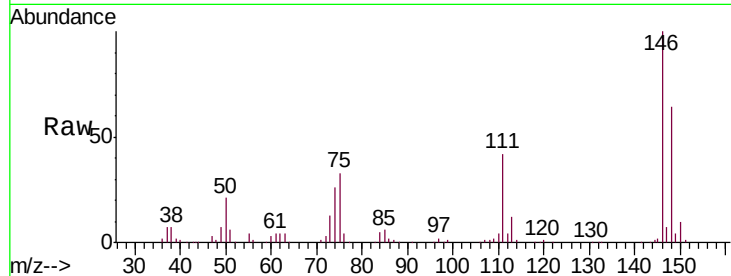




#63
 1,3-Dichlorobenzene
 Concen: 24.175 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

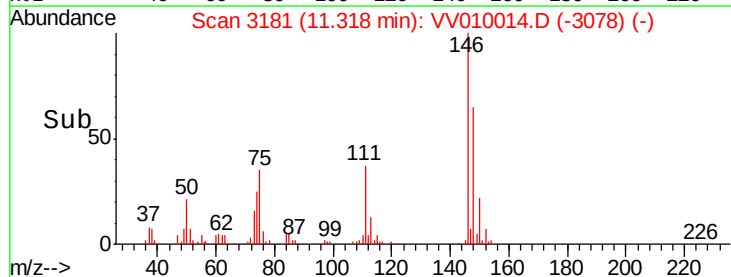
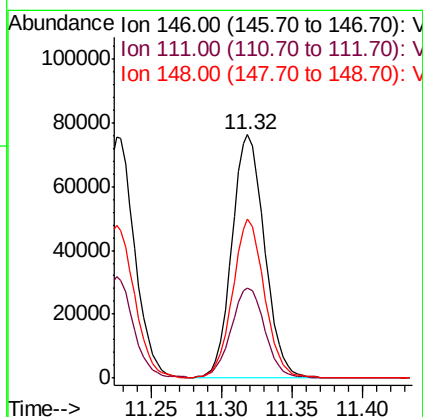
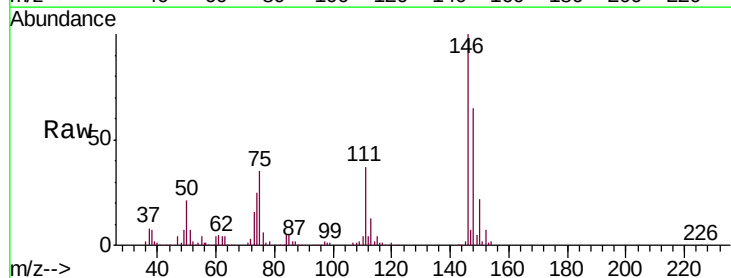
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

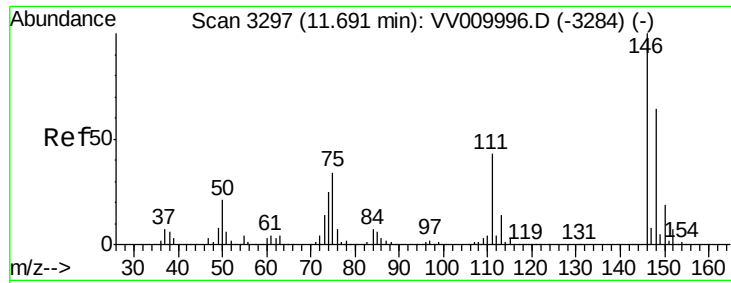
Tgt Ion:146 Resp: 119789
 Ion Ratio Lower Upper
 146 100
 111 42.0 28.5 52.9
 148 63.7 45.0 83.6



#64
 1,4-Dichlorobenzene
 Concen: 23.016 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion:146 Resp: 123946
 Ion Ratio Lower Upper
 146 100
 111 37.2 25.4 47.2
 148 65.1 44.1 81.9





#65

1,2-Dichlorobenzene

Concen: 24.267 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

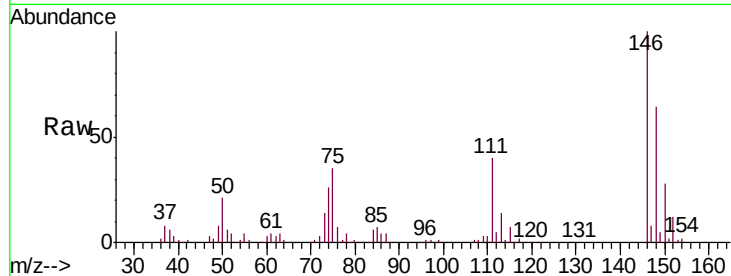
Tgt Ion: 146 Resp: 118673

Ion Ratio Lower Upper

146 100

111 40.0 32.7 49.1

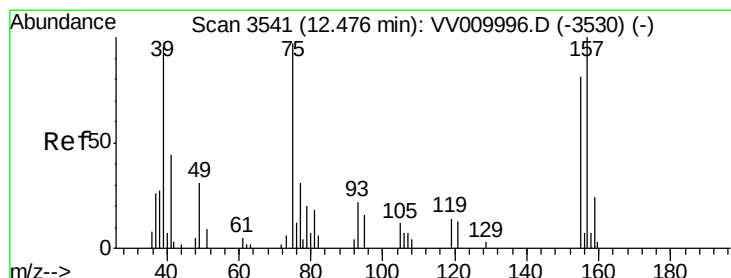
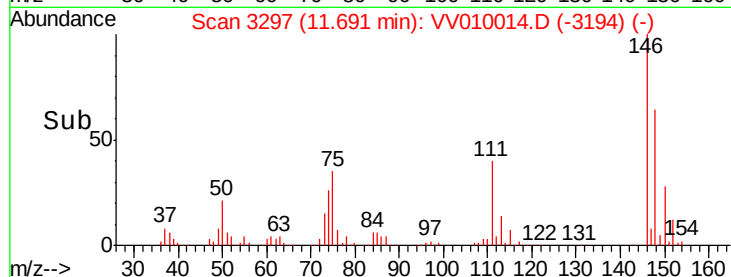
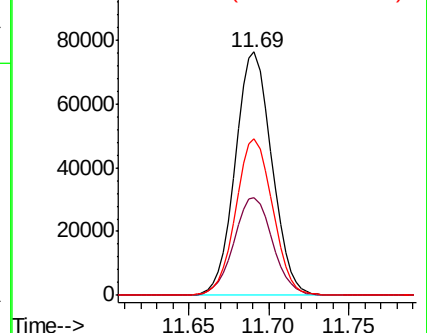
148 64.4 50.5 75.7



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: 31.389 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

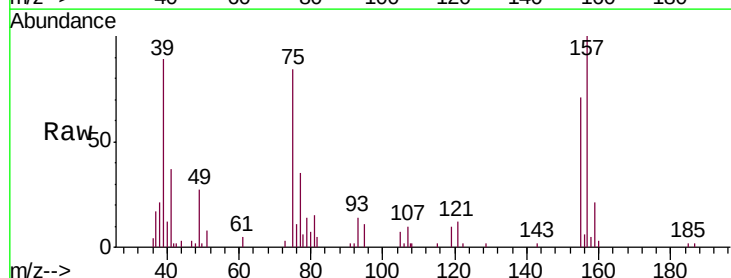
Tgt Ion: 75 Resp: 9594

Ion Ratio Lower Upper

75 100

157 119.1 89.2 133.8

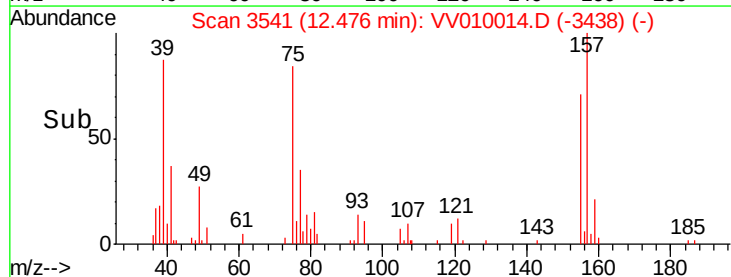
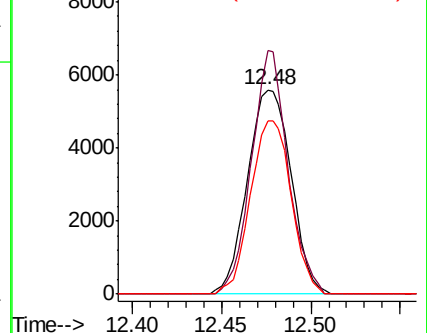
155 85.0 68.6 102.8

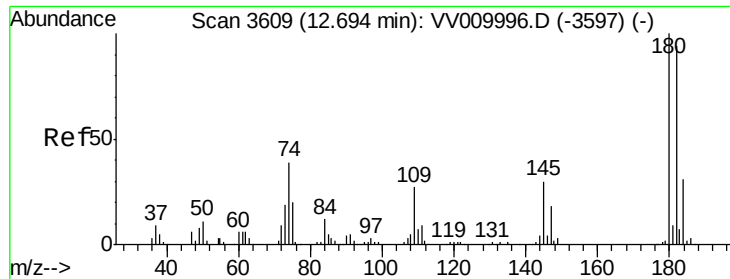


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

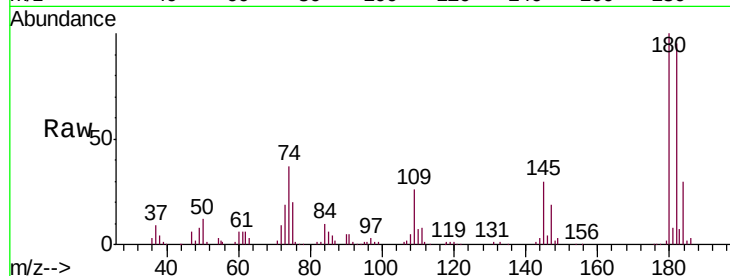




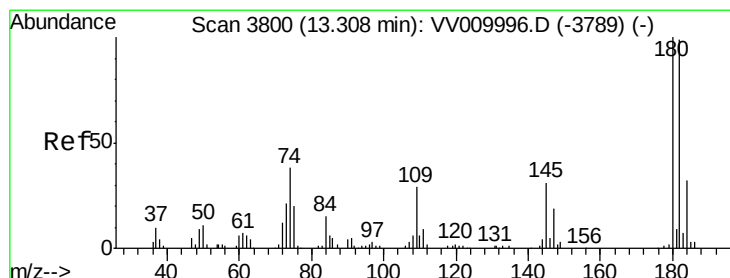
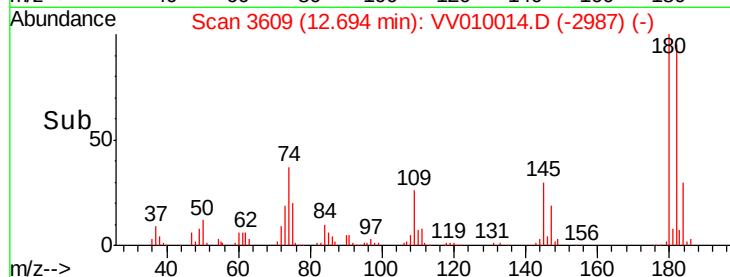
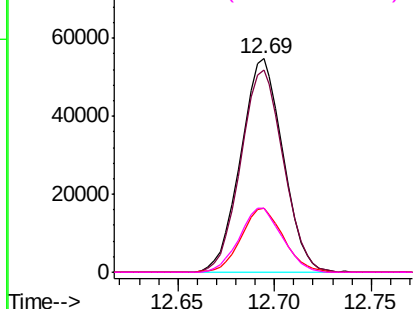
#67
 1,3,5-Trichlorobenzene
 Concen: 23.704 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02573

Tgt Ion:180 Resp: 83414
 Ion Ratio Lower Upper
 180 100
 182 95.3 78.4 117.6
 184 29.9 24.3 36.5
 145 30.4 24.9 37.3

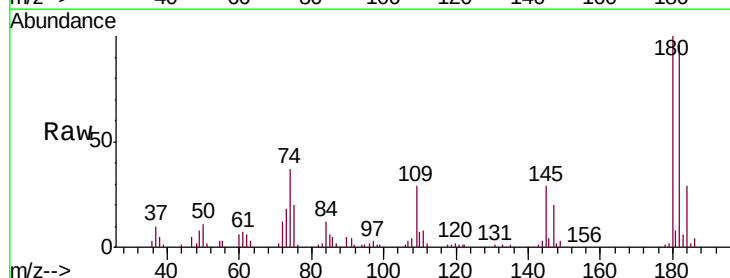


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

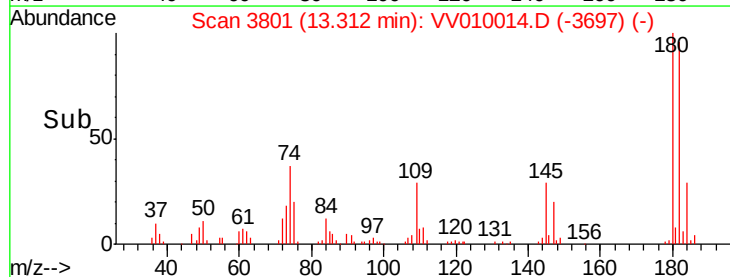
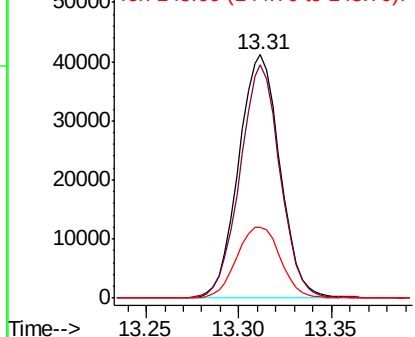


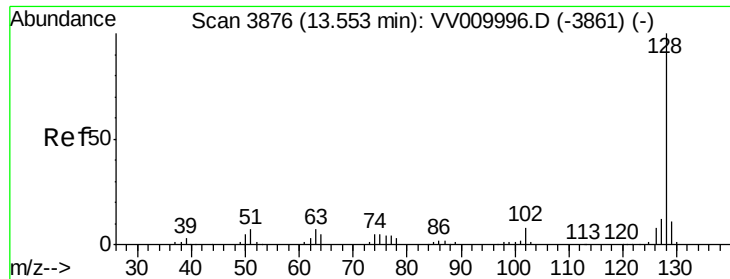
#68
 1,2,4-trichlorobenzene
 Concen: 24.526 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV010014.D
 Acq: 29 Mar 2019 21:08

Tgt Ion:180 Resp: 63666
 Ion Ratio Lower Upper
 180 100
 182 92.8 75.5 113.3
 145 30.9 23.2 34.8



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





#69

Naphthalene

Concen: 26.820 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02573

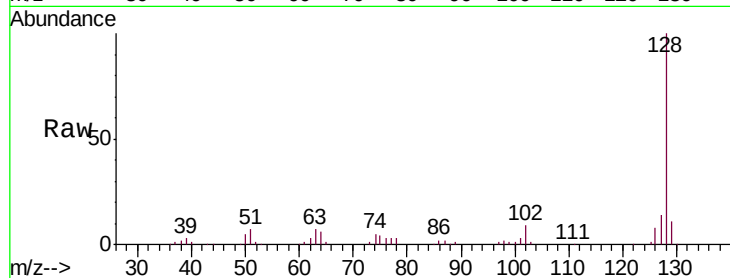
Tgt Ion:128 Resp: 115727

Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

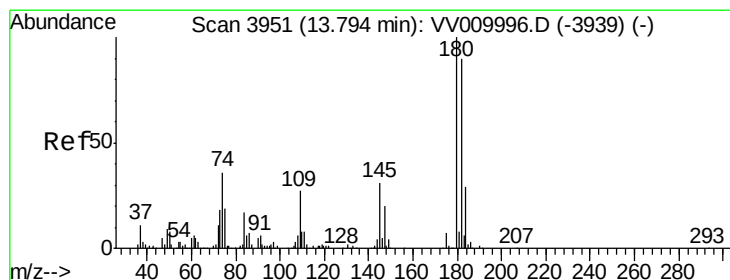
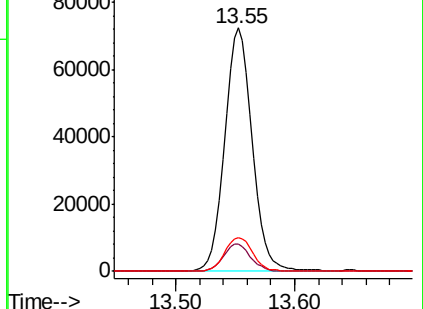
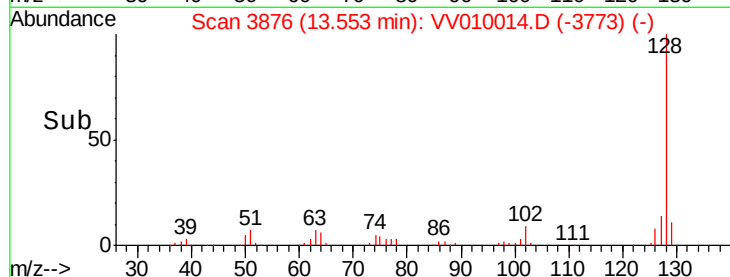
127 14.2 11.4 17.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.084 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV010014.D

Acq: 29 Mar 2019 21:08

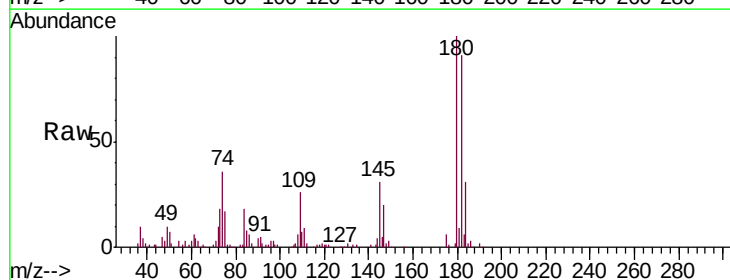
Tgt Ion:180 Resp: 64381

Ion Ratio Lower Upper

180 100

182 92.3 77.1 115.7

145 31.1 26.3 39.5



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

