

Data File : VV011026.D
Acq On : 23 May 2019 13:34
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

Quant Time: May 24 08:08:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052019S.M
Quant Title : VOC Analysis
QLast Update : Thu May 23 08:00:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	116780	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	117714	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	56106	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	30346	22.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.16%
7) Chloroethane-d5	1.57	69	21564	23.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.68%
10) 1,1-Dichloroethene-d2	2.13	63	61317	23.95	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.80%
20) 2-Butanone-d5	3.94	46	25451	55.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	110.80%
24) Chloroform-d	4.40	84	79779	26.37	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	105.48%
26) 1,2-Dichloroethane-d4	5.08	65	42733	23.97	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.88%
29) Benzene-d6	5.10	84	164807	25.65	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.60%
33) 1,2-Dichloropropane-d6	6.12	67	51456	25.20	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	100.80%
37) Toluene-d8	7.36	98	156981	26.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	105.12%
38) trans-1,3-Dichloropropene-	7.66	79	20994	25.04	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	100.16%
39) 2-Hexanone-d5	8.13	63	18052	47.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.80%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	49280	24.17	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	96.68%
61) 1,2-Dichlorobenzene-d4	11.67	152	55928	24.55	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	45026	26.116 ug/L	99
3) Chloromethane	1.25	50	39656	25.393 ug/L	100
5) Vinyl chloride	1.32	62	41760	26.625 ug/L	94
6) Bromomethane	1.51	94	15021	27.466 ug/L	97
8) Chloroethane	1.59	64	20703	26.378 ug/L	98
9) Trichlorofluoromethane	1.76	101	64923	25.971 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	37259	26.137 ug/L	96
12) 1,1-Dichloroethene	2.14	96	31806	25.809 ug/L	94
13) Acetone	2.19	43	21367	48.232 ug/L	99
14) Carbon disulfide	2.31	76	82113	23.794 ug/L	98
15) Methyl Acetate	2.46	43	22504	26.439 ug/L	99
16) Methylene chloride	2.53	84	50007	24.952 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	111694	25.615 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	45674	26.866 ug/L	96
19) 1,1-Dichloroethane	3.23	63	84396	27.264 ug/L	98
21) 2-Butanone	4.02	43	29792	49.142 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	51268	27.085 ug/L	95

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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	23284	25.956	ug/L	89
25) Chloroform	4.42	83	91006	25.982	ug/L	99
27) 1,2-Dichloroethane	5.18	62	54385	25.258	ug/L	97
30) Cyclohexane	4.72	56	69055	28.232	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	73840	27.886	ug/L	99
32) Carbon tetrachloride	4.87	117	65162	26.985	ug/L	99
34) Benzene	5.14	78	190700	28.103	ug/L	100
35) Trichloroethene	5.96	95	51431	27.431	ug/L	97
36) Methylcyclohexane	6.17	83	77101	27.817	ug/L	95
40) 1,2-Dichloropropane	6.22	63	49725	27.883	ug/L	99
41) Bromodichloromethane	6.55	83	63602	26.683	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	73898	27.839	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	62289	48.725	ug/L	97
44) Toluene	7.43	91	218152	28.970	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	61105	27.327	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	42040	27.665	ug/L	97
47) Tetrachloroethene	8.02	164	37361	25.528	ug/L	92
49) 2-Hexanone	8.18	43	43782	46.907	ug/L	93
50) Dibromochloromethane	8.29	129	45853	25.636	ug/L	99
51) 1,2-Dibromoethane	8.40	107	38386	26.121	ug/L	97
52) Chlorobenzene	8.92	112	140487	27.218	ug/L	96
53) Ethylbenzene	9.05	91	244267	29.769	ug/L	99
54) m,p-Xylene	9.18	106	94890	29.671	ug/L	99
55) o-xylene	9.59	106	92418	30.290	ug/L	97
56) Styrene	9.60	104	156920	29.841	ug/L	99
57) Isopropylbenzene	9.97	105	240870	29.925	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	53854	26.915	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	37163	25.283	ug/L	100
62) Bromoform	9.77	173	24443	24.541	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	106422	27.810	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	109316	27.737	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	104509	28.166	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.47	75	7662	25.994	ug/L	88
67) 1,3,5-Trichlorobenzene	12.69	180	75154	26.772	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	61541	27.737	ug/L	97
69) Naphthalene	13.55	128	123790	27.832	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	58890	27.187	ug/L	99

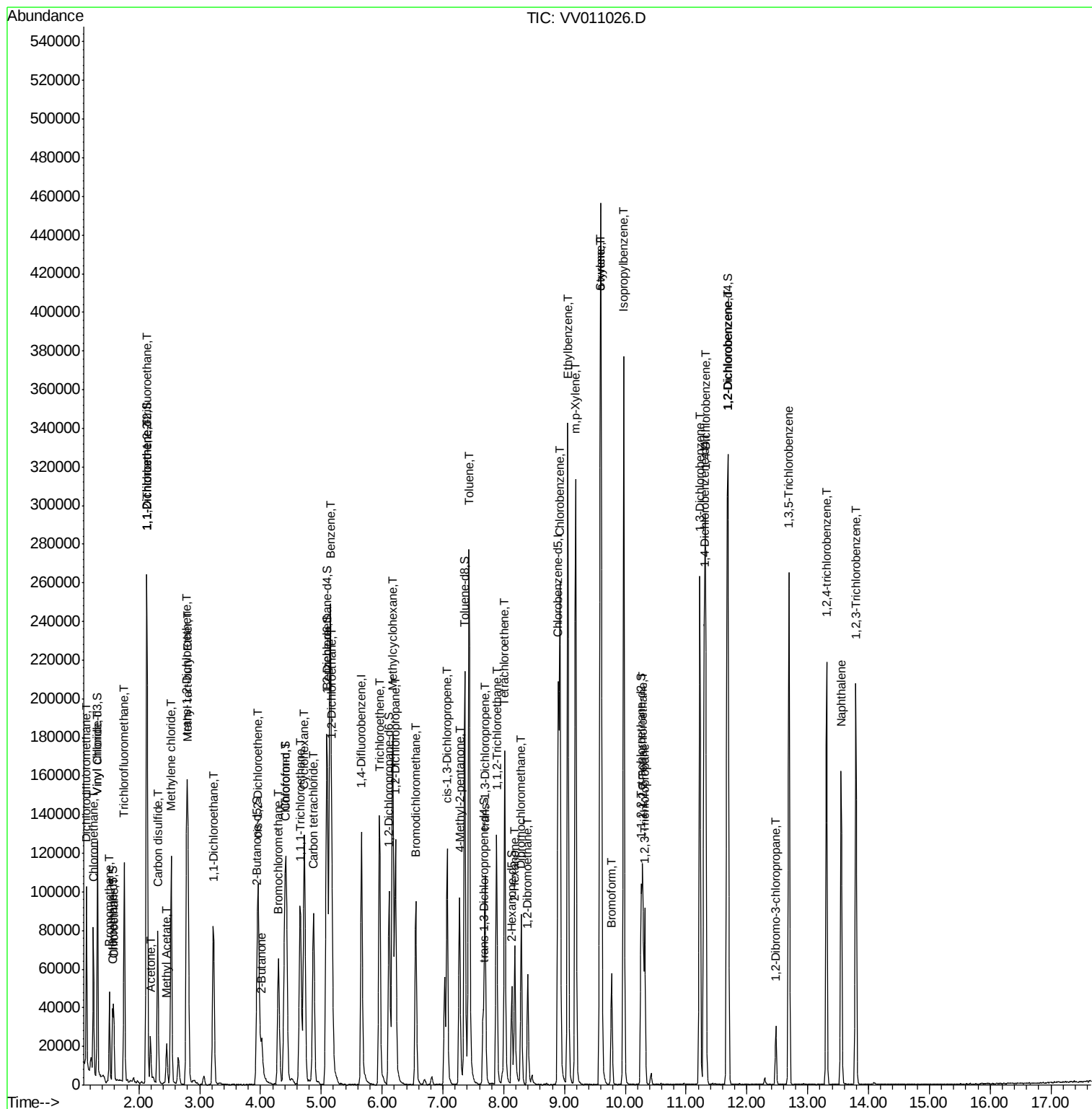
(#) = qualifier out of range (m) = manual integration (+) = signals summed

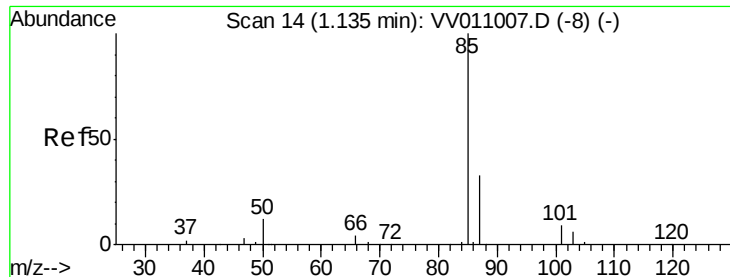
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#2

Dichlorodifluoromethane

Concen: 26.116 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

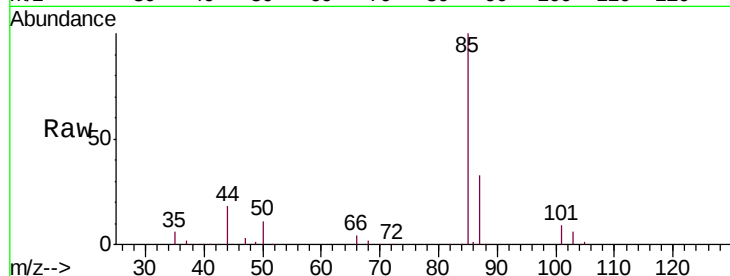
VSTD02571

Tgt Ion: 85 Resp: 45026

Ion Ratio Lower Upper

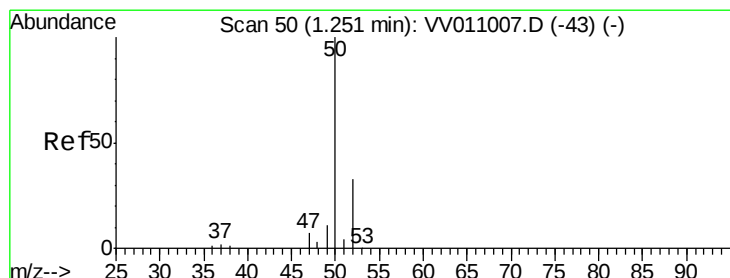
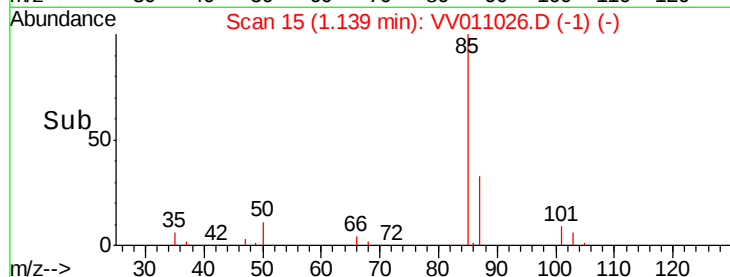
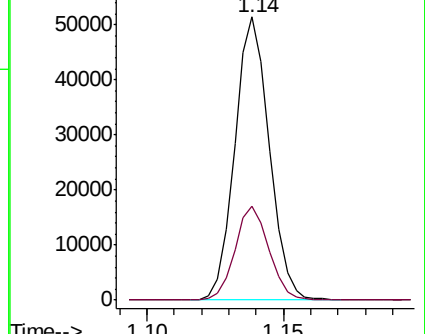
85 100

87 32.7 23.2 43.2



Abundance Ion 85.00 (84.70 to 85.70): VV011007.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV011007.D (-8) (-)



#3

Chloromethane

Concen: 25.393 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV011026.D

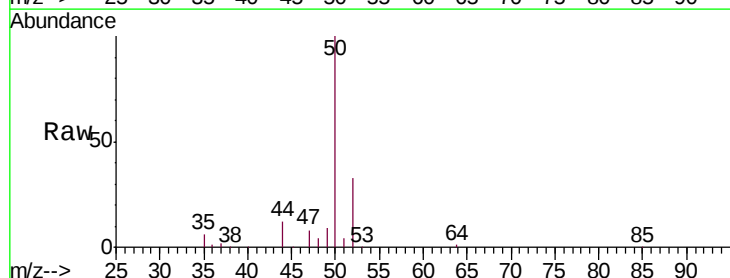
Acq: 23 May 2019 13:34

Tgt Ion: 50 Resp: 39656

Ion Ratio Lower Upper

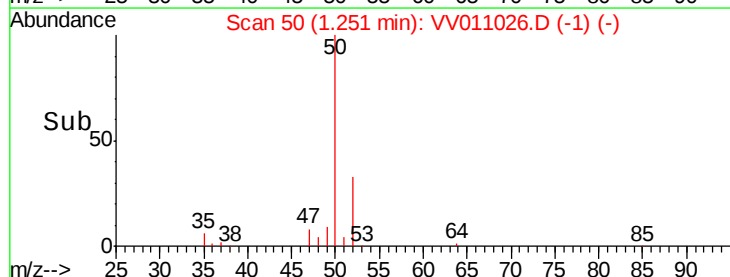
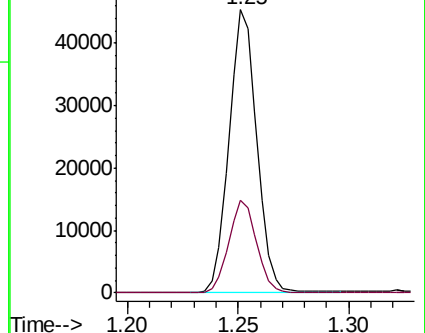
50 100

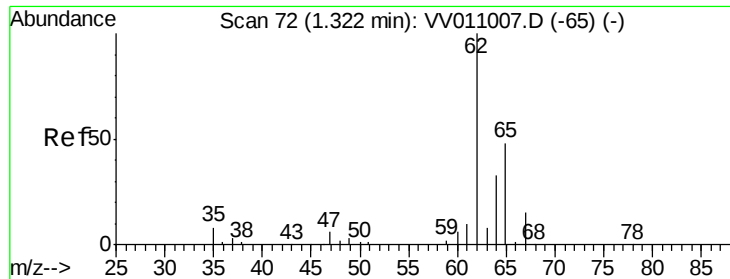
52 32.6 22.7 42.3



Abundance Ion 50.00 (49.70 to 50.70): VV011007.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV011007.D (-43) (-)





#5

Vinyl chloride

Concen: 26.625 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

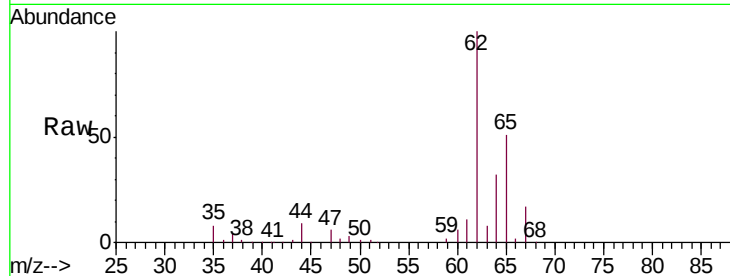
VSTD02571

Tgt Ion: 62 Resp: 41760

Ion Ratio Lower Upper

62 100

64 31.8 24.5 45.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

50000

40000

30000

20000

10000

0

1.30 1.32 1.34 1.36 1.38 1.40

Time-->

Abundance

Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

50000

40000

30000

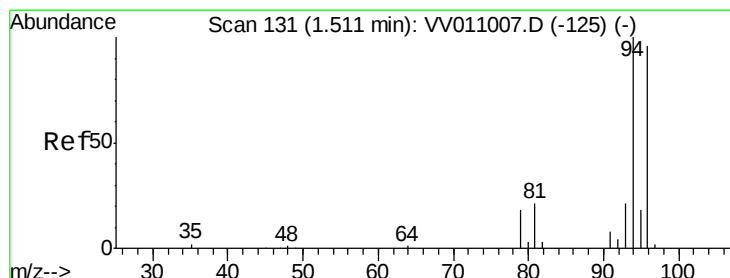
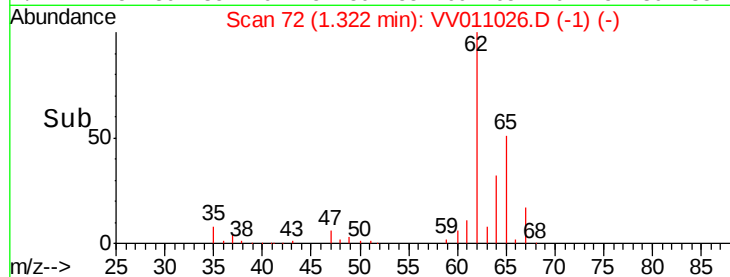
20000

10000

0

1.30 1.32 1.34 1.36 1.38 1.40

Time-->



#6

Bromomethane

Concen: 27.466 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV011026.D

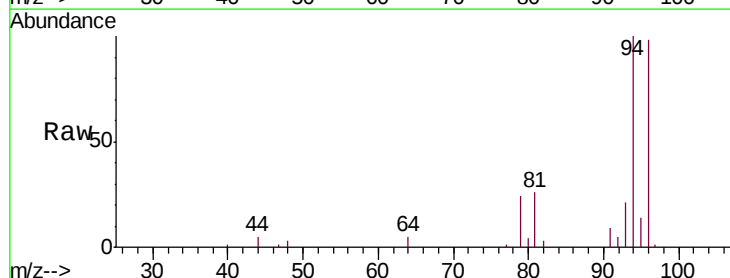
Acq: 23 May 2019 13:34

Tgt Ion: 94 Resp: 15021

Ion Ratio Lower Upper

94 100

96 96.0 9.3 177.7



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

15000

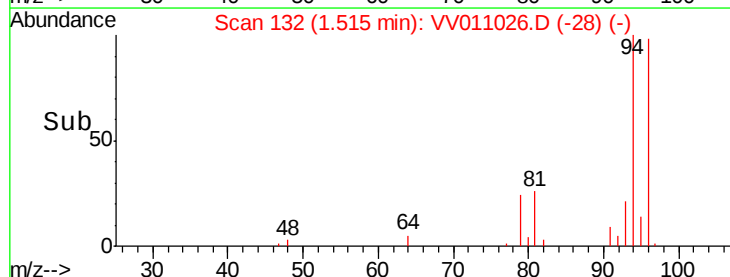
10000

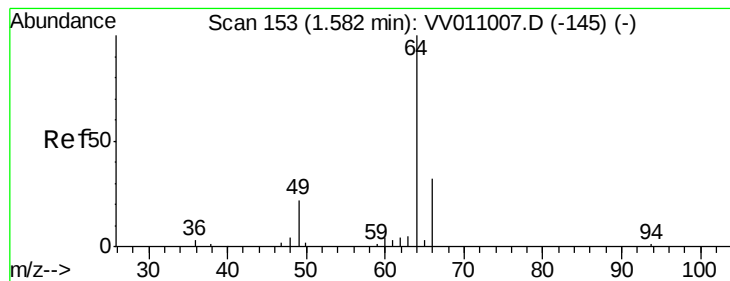
5000

0

1.48 1.50 1.52 1.54 1.56

Time-->





#8

Chloroethane

Concen: 26.378 ug/L

RT: 1.59 min Scan# 154

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

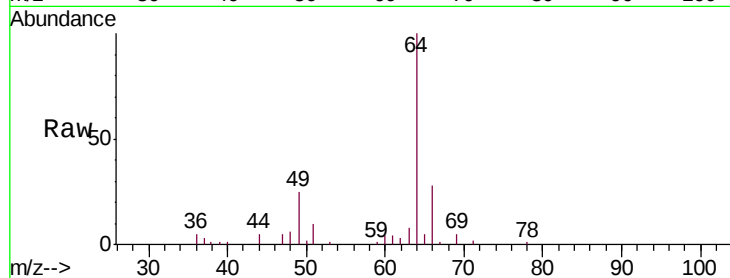
VSTD02571

Tgt Ion: 64 Resp: 20703

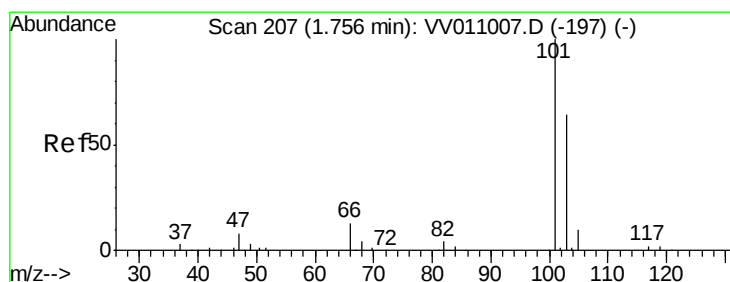
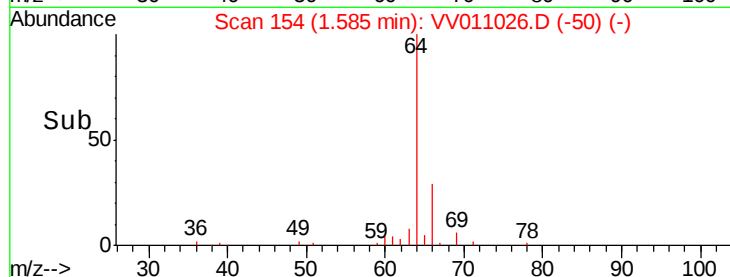
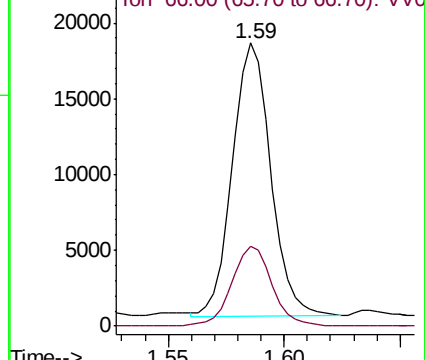
Ion Ratio Lower Upper

64 100

66 28.2 20.4 37.8



Abundance Ion 64.00 (63.70 to 64.70): VV011007.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 25.971 ug/L

RT: 1.76 min Scan# 208

Delta R.T. 0.00 min

Lab File: VV011026.D

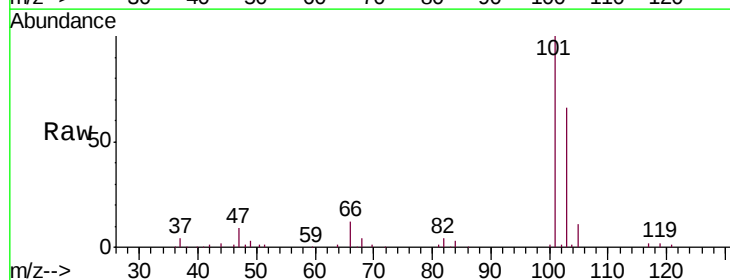
Acq: 23 May 2019 13:34

Tgt Ion: 101 Resp: 64923

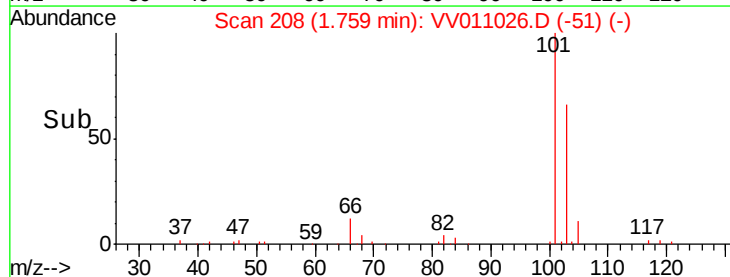
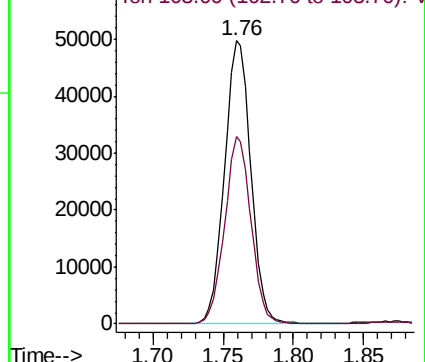
Ion Ratio Lower Upper

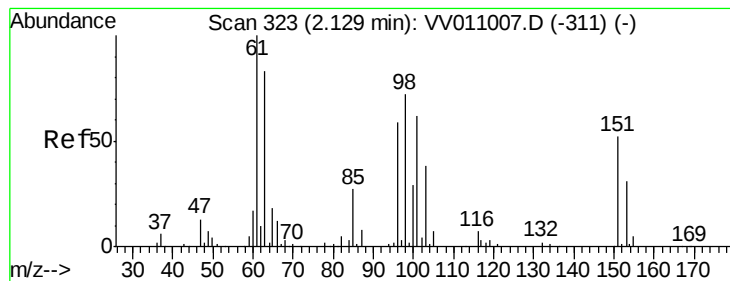
101 100

103 65.9 44.7 82.9



Abundance Ion 101.00 (100.70 to 101.70): VV011007.D (-197) (-)





#11

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

Concen: 26.137 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampled :

VSTD02571

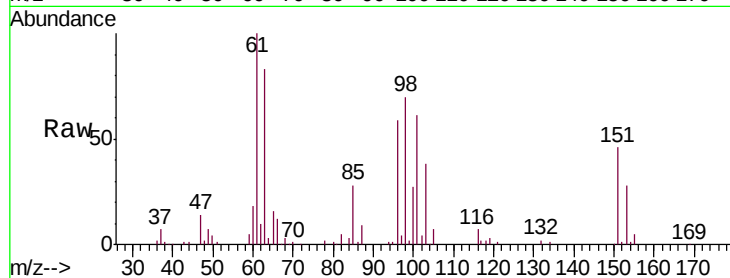
Tgt Ion:101 Resp: 37259

Ion Ratio Lower Upper

101 100

85 44.8 33.9 50.9

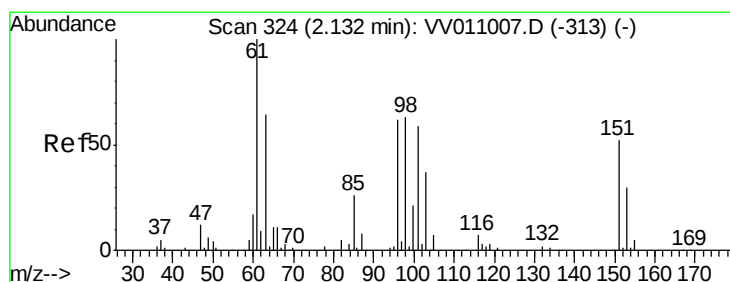
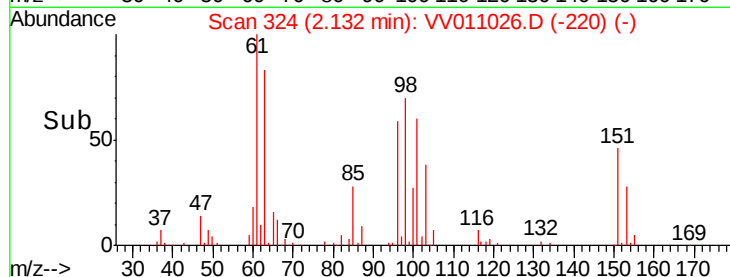
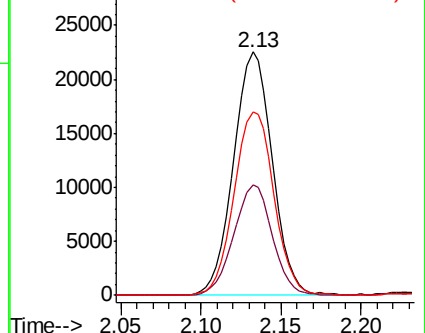
151 77.1 64.7 97.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.809 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

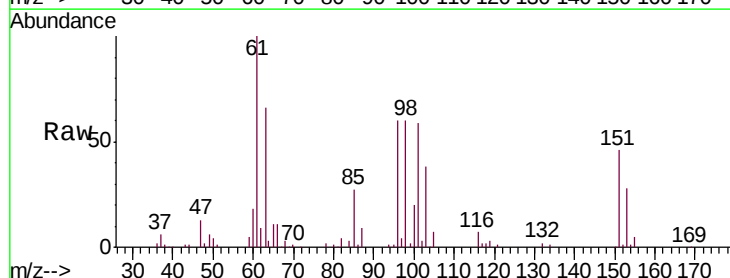
Tgt Ion: 96 Resp: 31806

Ion Ratio Lower Upper

96 100

61 166.6 117.8 218.8

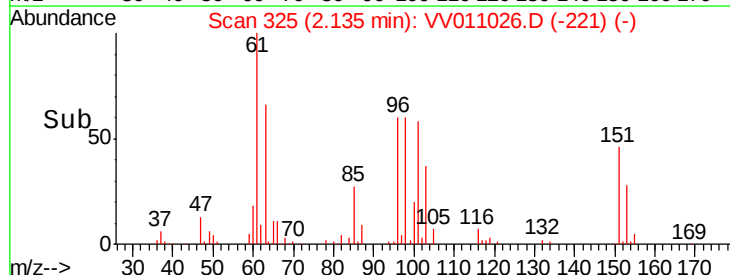
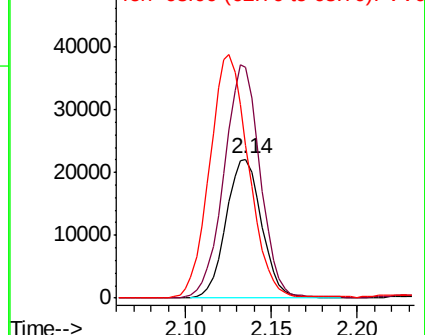
63 110.4 87.1 161.7

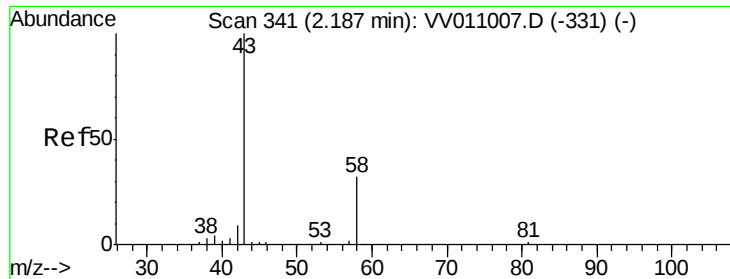


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 48.232 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

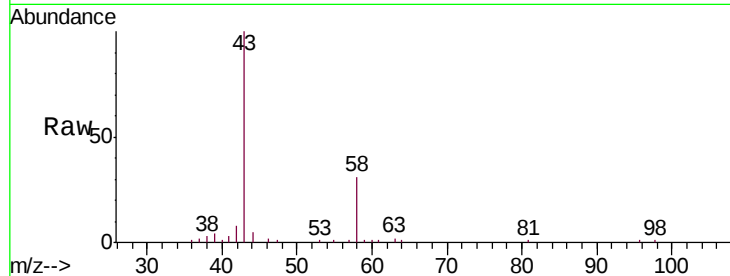
VSTD02571

Tgt Ion: 43 Resp: 21367

Ion Ratio Lower Upper

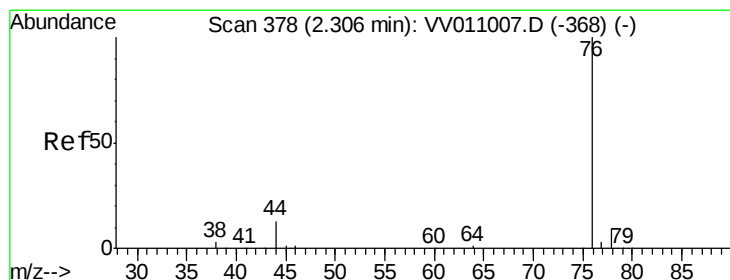
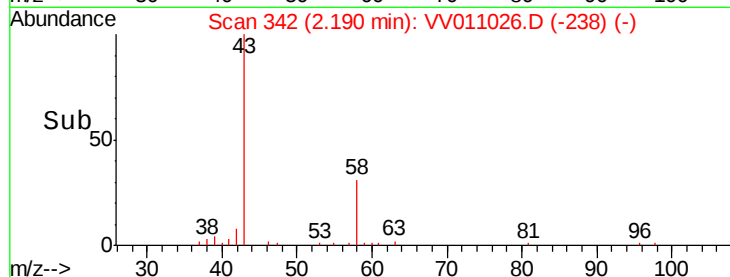
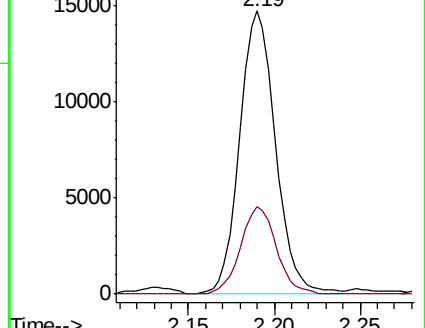
43 100

58 30.7 0.0 60.8



Abundance Ion 43.00 (42.70 to 43.70): VV011007.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV011007.D (-331) (-)



#14

Carbon disulfide

Concen: 23.794 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV011026.D

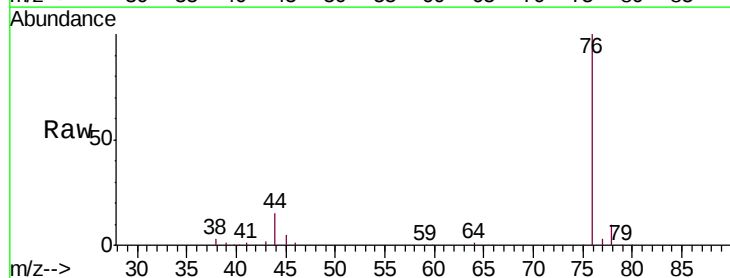
Acq: 23 May 2019 13:34

Tgt Ion: 76 Resp: 82113

Ion Ratio Lower Upper

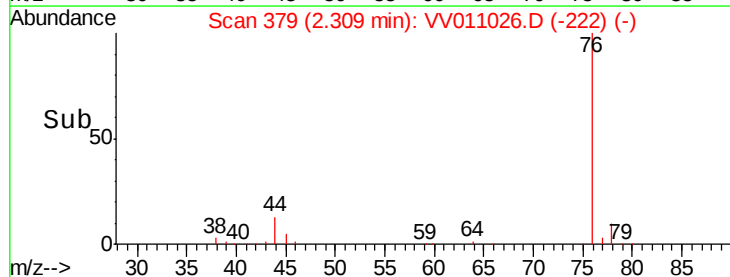
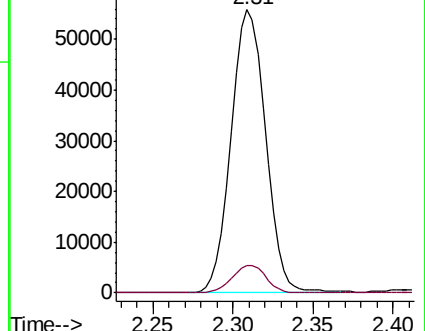
76 100

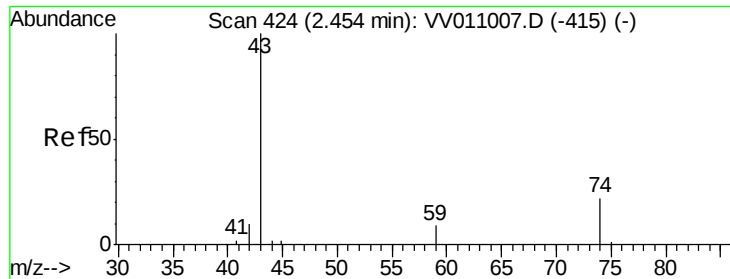
78 9.6 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV011007.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV011007.D (-368) (-)

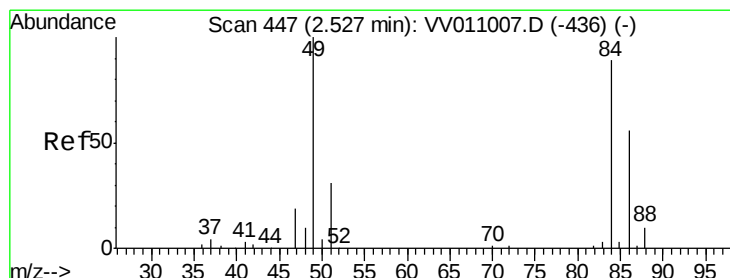
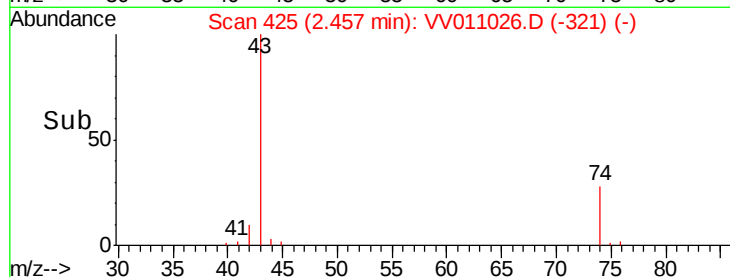
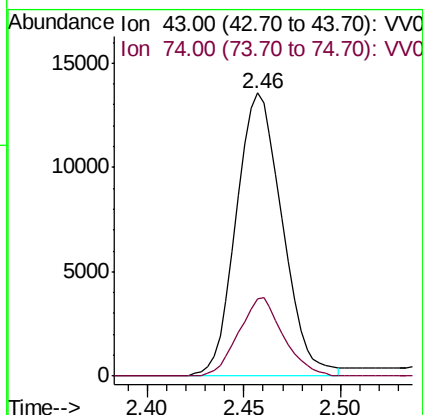
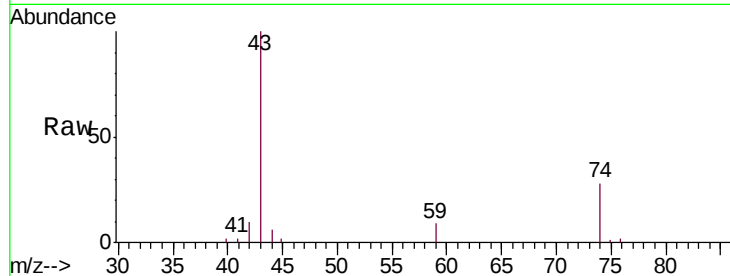




#15
Methyl Acetate
Concen: 26.439 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

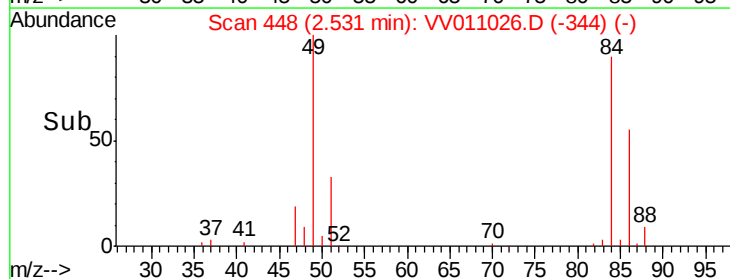
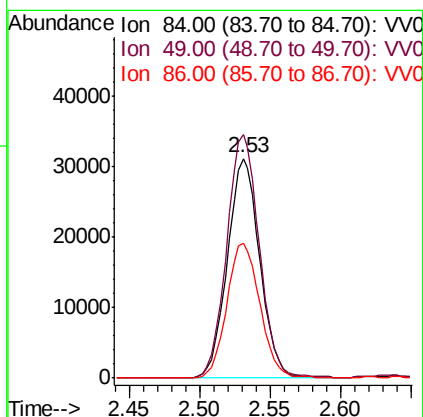
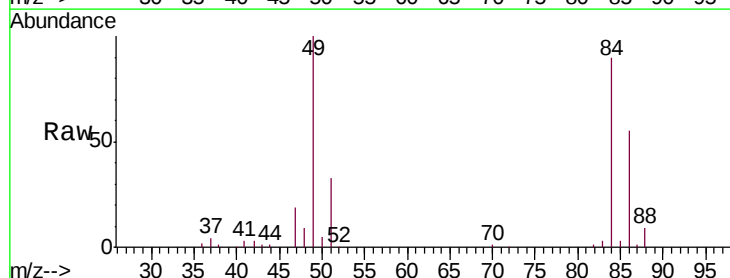
Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

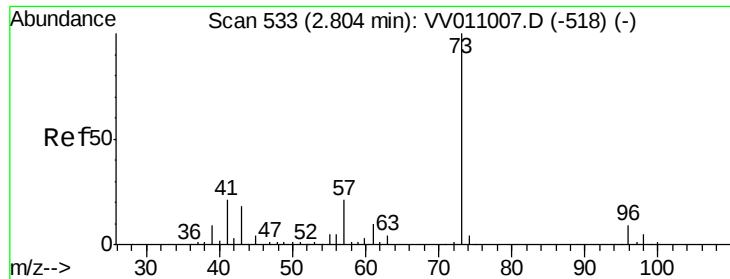
Tgt Ion: 43 Resp: 22504
Ion Ratio Lower Upper
43 100
74 27.0 21.1 31.7



#16
Methylene chloride
Concen: 24.952 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 84 Resp: 50007
Ion Ratio Lower Upper
84 100
49 110.9 77.4 143.8
86 61.4 44.0 81.6

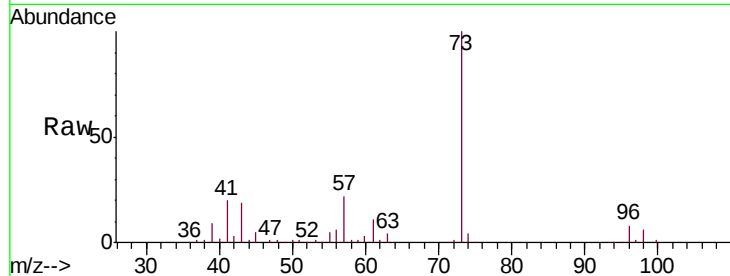




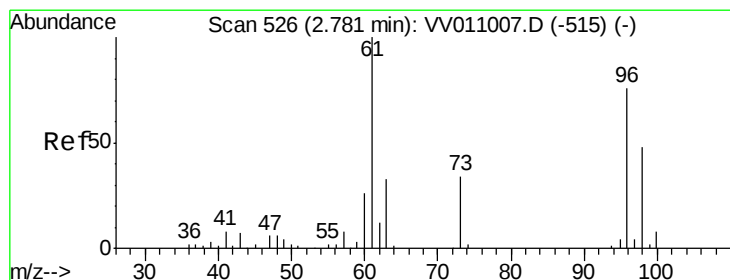
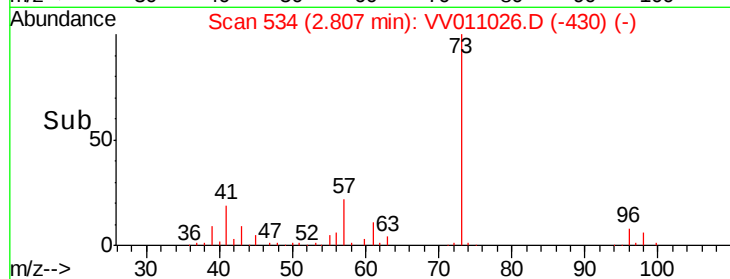
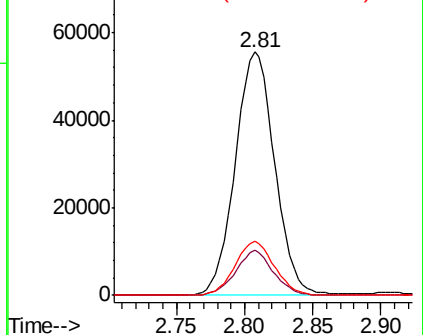
#17
Methyl tert-butyl Ether
Concen: 25.615 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

Tgt Ion: 73 Resp: 111694
Ion Ratio Lower Upper
73 100
43 17.7 14.5 21.7
57 22.2 17.3 25.9

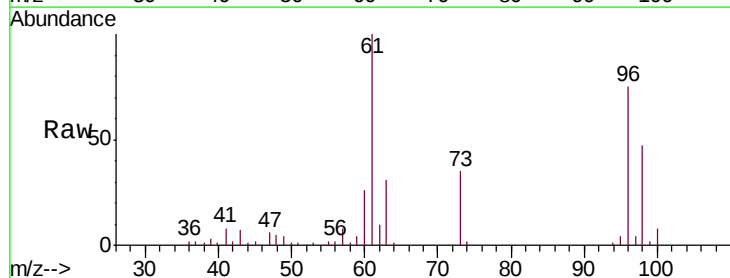


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

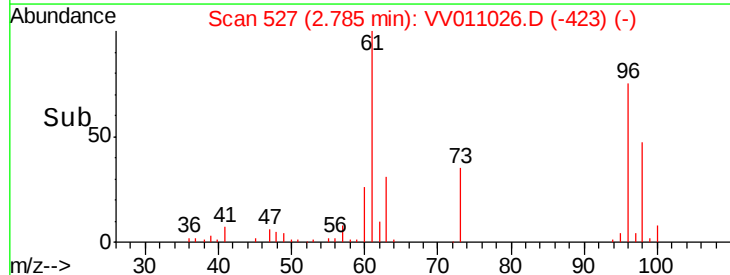
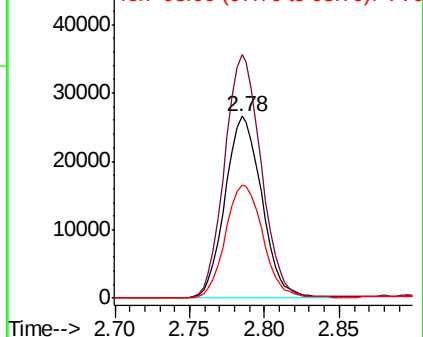


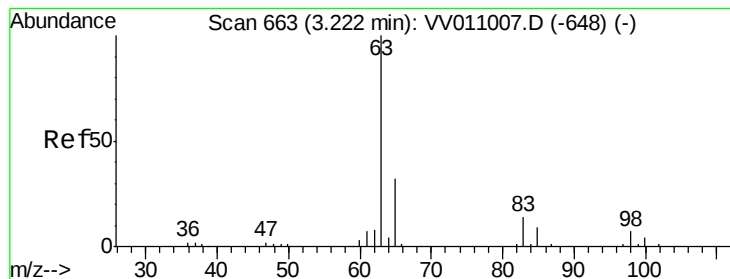
#18
trans-1,2-Dichloroethene
Concen: 26.866 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 96 Resp: 45674
Ion Ratio Lower Upper
96 100
61 133.8 89.7 166.5
98 62.3 44.5 82.7



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: 27.264 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampled :

VSTD02571

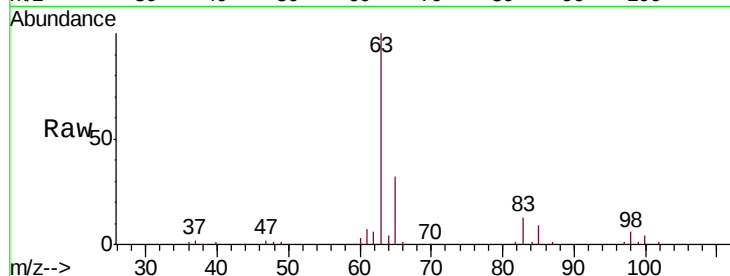
Tgt Ion: 63 Resp: 84396

Ion Ratio Lower Upper

63 100

65 31.6 21.1 39.3

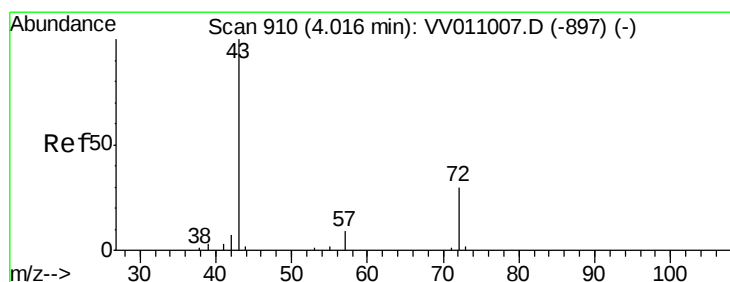
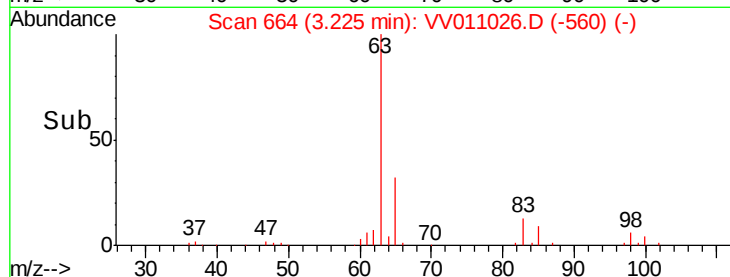
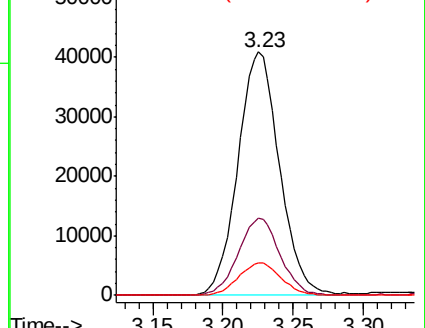
83 13.3 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VV011007.D (-648) (-)

Ion 65.00 (64.70 to 65.70): VV011007.D (-648) (-)

Ion 83.00 (82.70 to 83.70): VV011007.D (-648) (-)



#21

2-Butanone

Concen: 49.142 ug/L

RT: 4.02 min Scan# 912

Delta R.T. 0.01 min

Lab File: VV011026.D

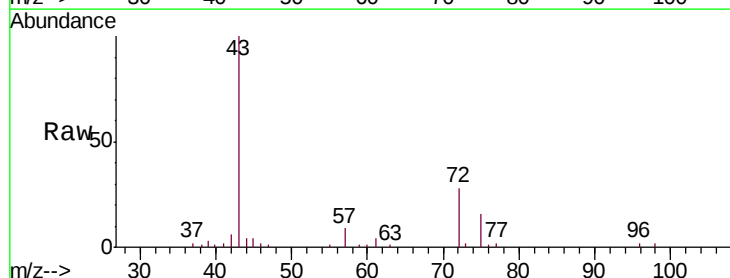
Acq: 23 May 2019 13:34

Tgt Ion: 43 Resp: 29792

Ion Ratio Lower Upper

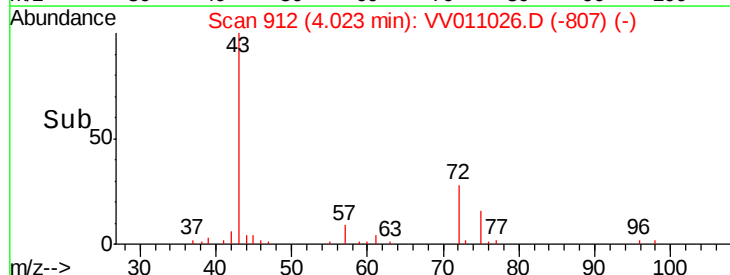
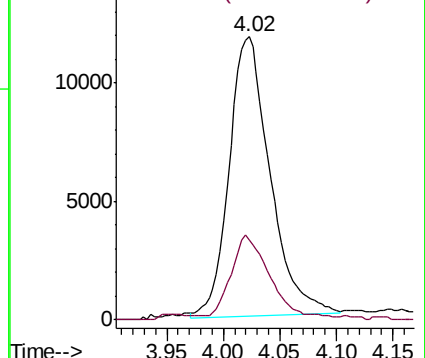
43 100

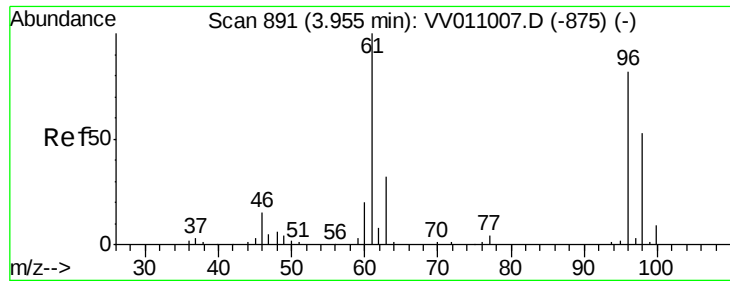
72 25.2 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VV011007.D (-897) (-)

Ion 72.00 (71.70 to 72.70): VV011007.D (-897) (-)



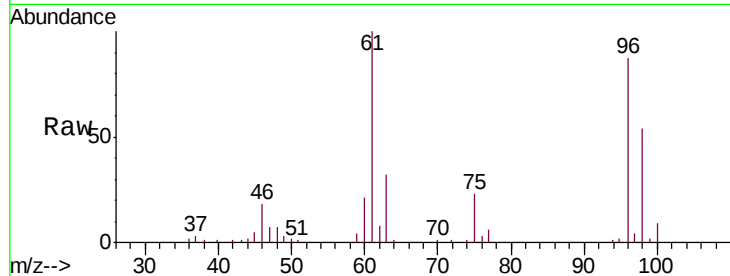


#22

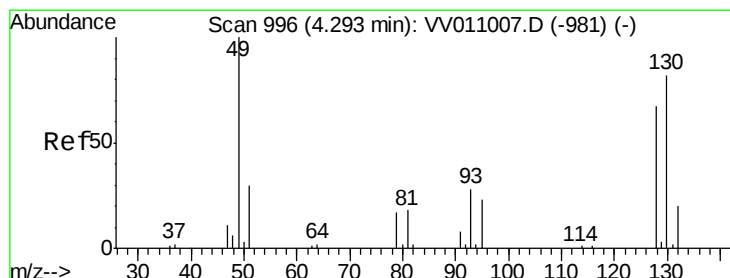
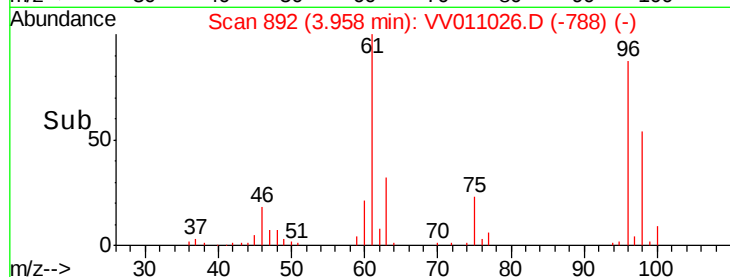
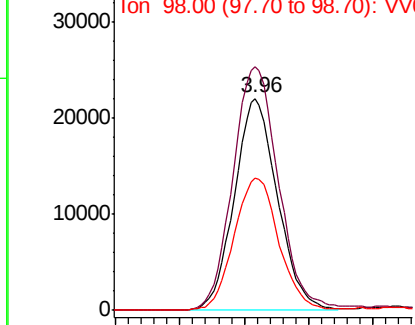
cis-1,2-Dichloroethene
Concen: 27.085 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

Tgt Ion: 96 Resp: 51268
Ion Ratio Lower Upper
96 100
61 114.8 85.4 158.6
98 62.4 45.1 83.7



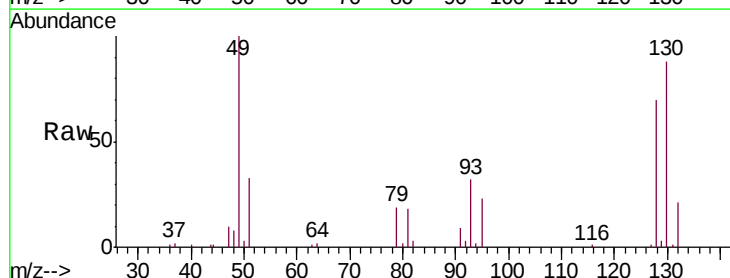
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



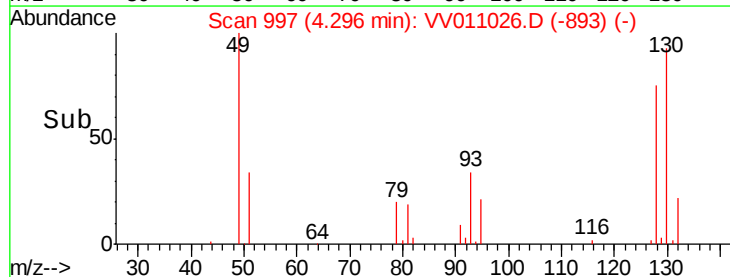
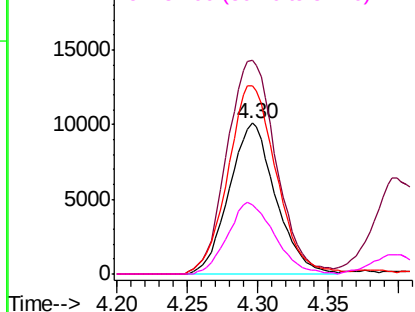
#23

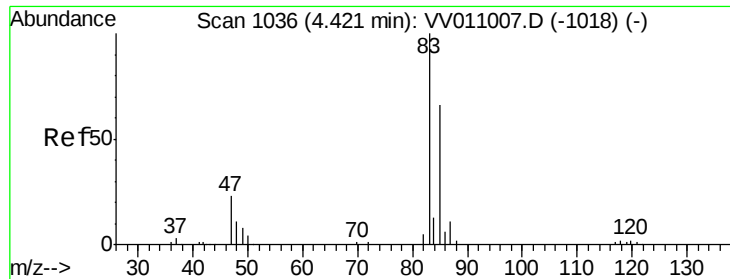
Bromochloromethane
Concen: 25.956 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 128 Resp: 23284
Ion Ratio Lower Upper
128 100
49 141.9 111.6 207.4
130 124.9 95.5 177.3
51 46.3 39.8 59.6



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

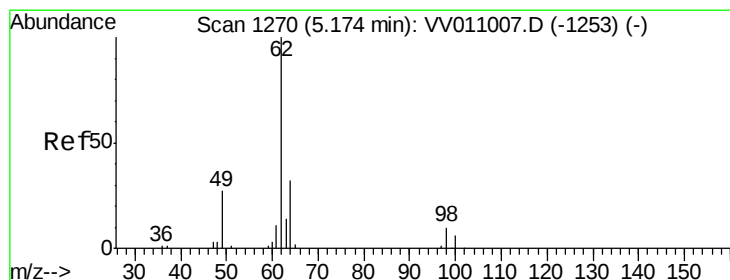
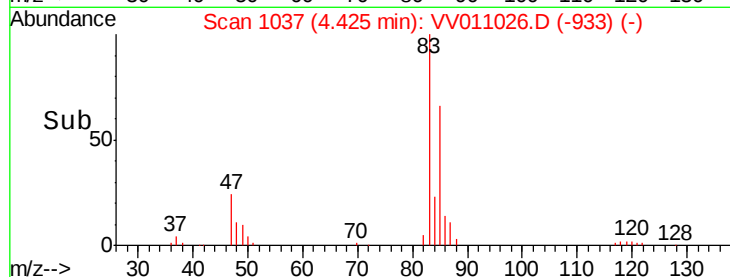
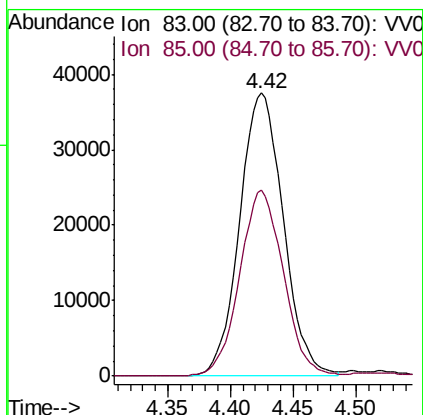
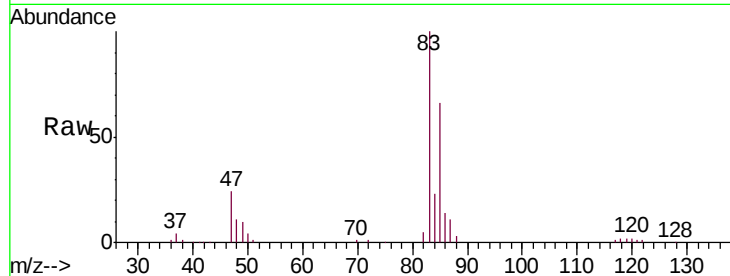




#25
Chloroform
Concen: 25.982 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

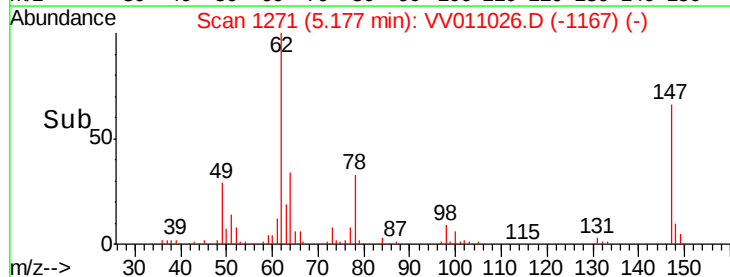
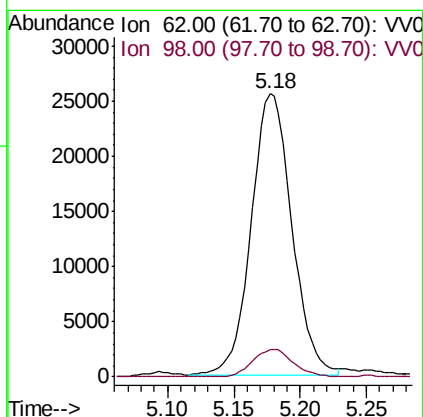
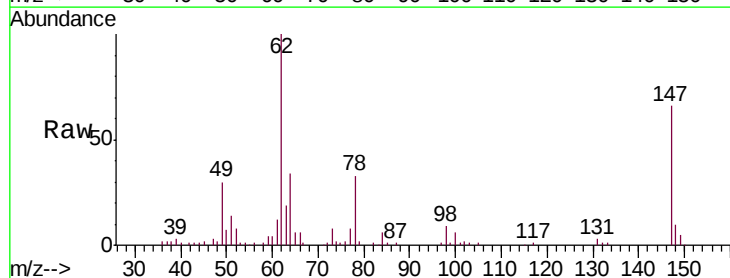
Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

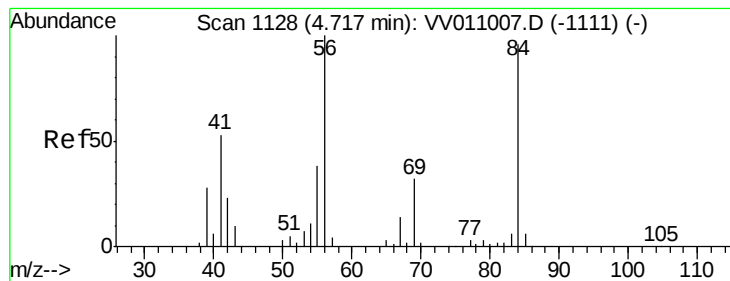
Tgt Ion: 83 Resp: 91006
Ion Ratio Lower Upper
83 100
85 65.8 45.6 84.8



#27
1,2-Dichloroethane
Concen: 25.258 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 62 Resp: 54385
Ion Ratio Lower Upper
62 100
98 9.5 8.6 13.0





#30

Cyclohexane

Concen: 28.232 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampled :

VSTD02571

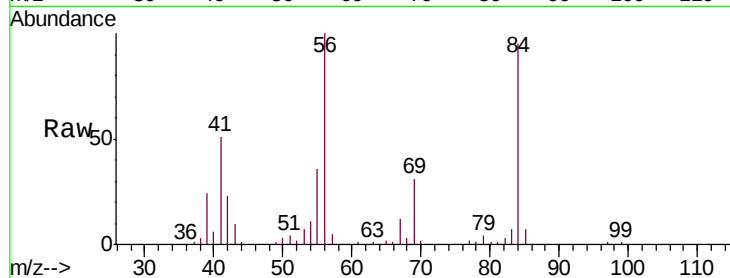
Tgt Ion: 56 Resp: 69055

Ion Ratio Lower Upper

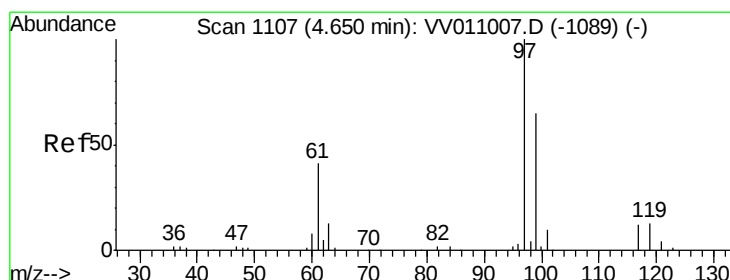
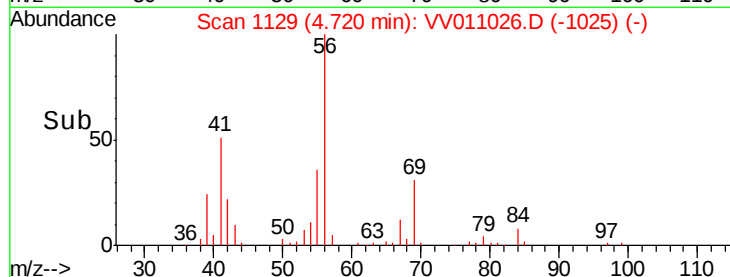
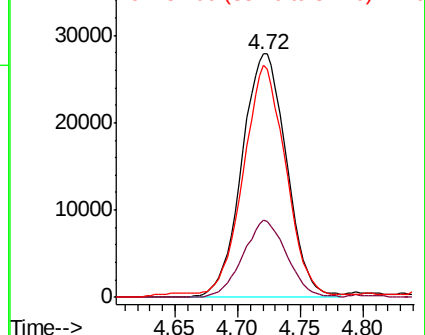
56 100

69 31.0 25.1 37.7

84 89.2 72.4 108.6



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 27.886 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

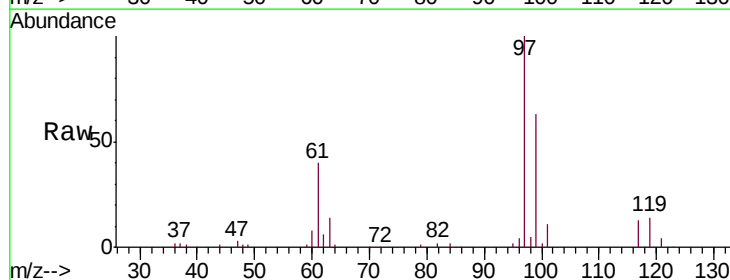
Tgt Ion: 97 Resp: 73840

Ion Ratio Lower Upper

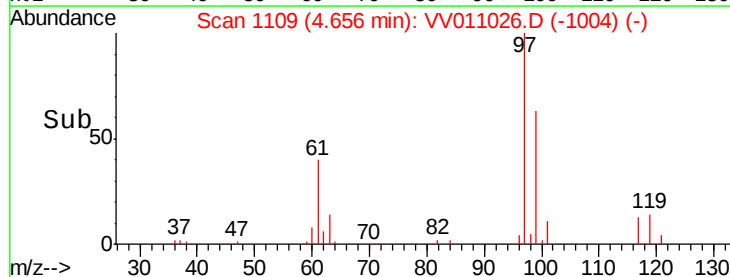
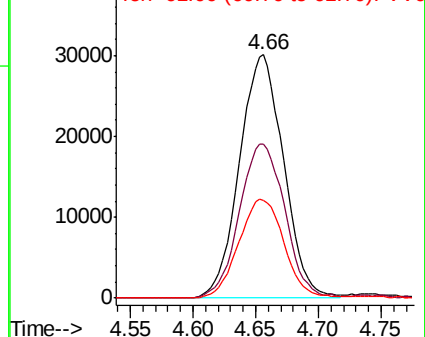
97 100

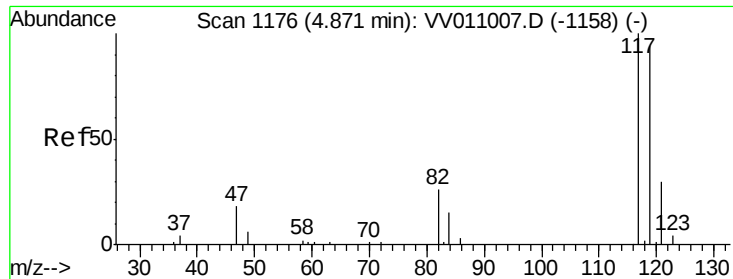
99 64.7 51.0 76.4

61 41.6 33.9 50.9



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 26.985 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

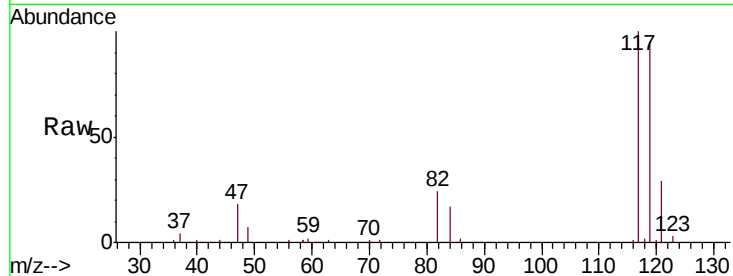
VSTD02571

Tgt Ion:117 Resp: 65162

Ion Ratio Lower Upper

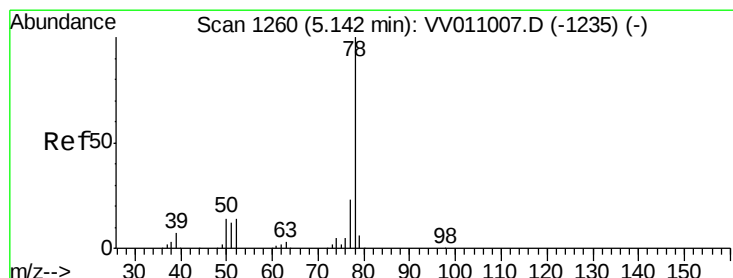
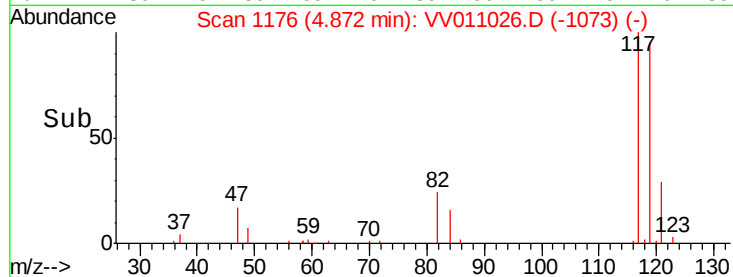
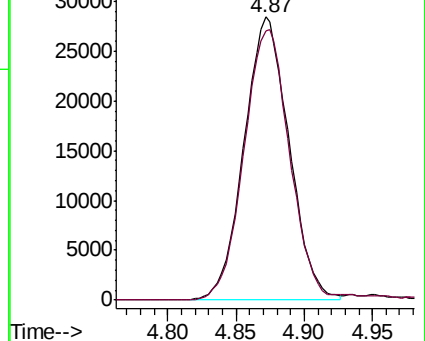
117 100

119 96.3 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 28.103 ug/L

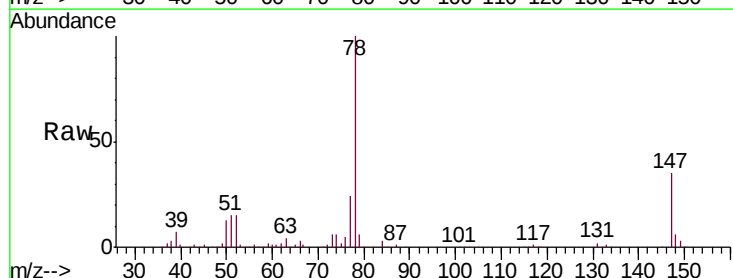
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

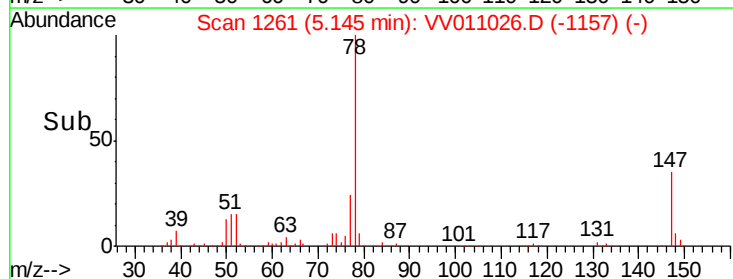
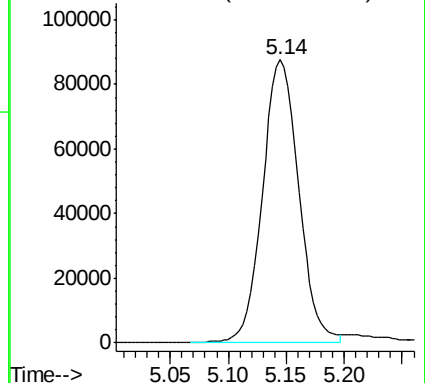
Lab File: VV011026.D

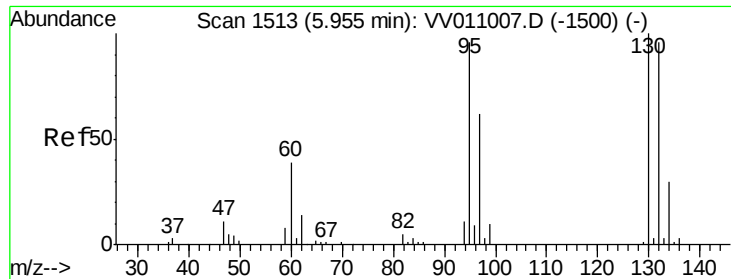
Acq: 23 May 2019 13:34

Tgt Ion: 78 Resp: 190700



Abundance Ion 78.00 (77.70 to 78.70): VV0

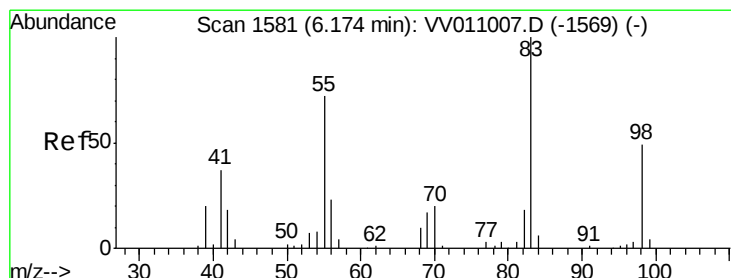
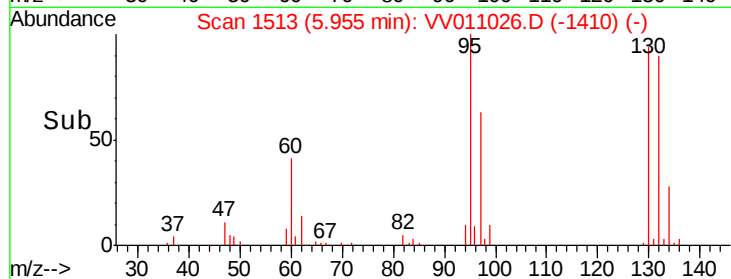
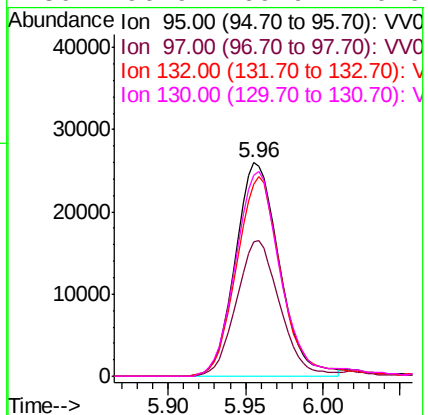
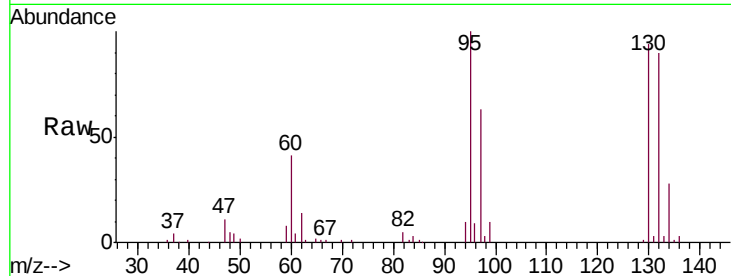




#35
 Trichloroethene
 Concen: 27.431 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

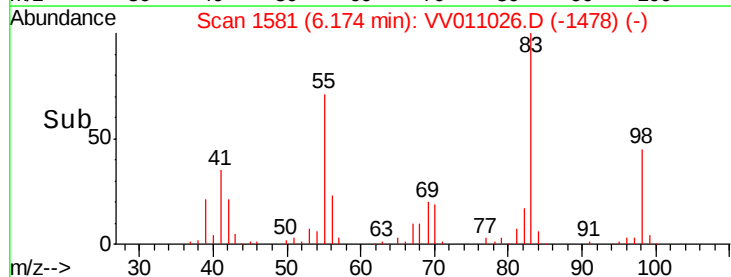
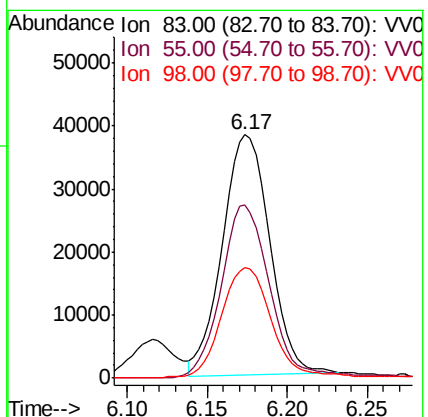
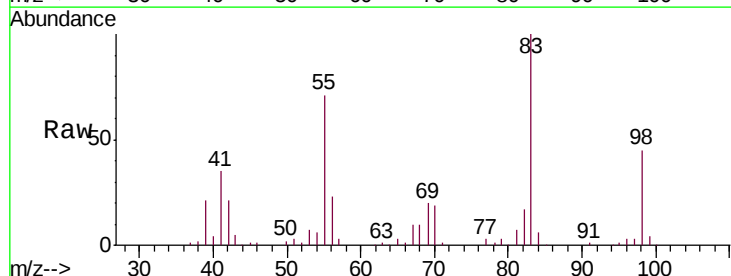
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02571

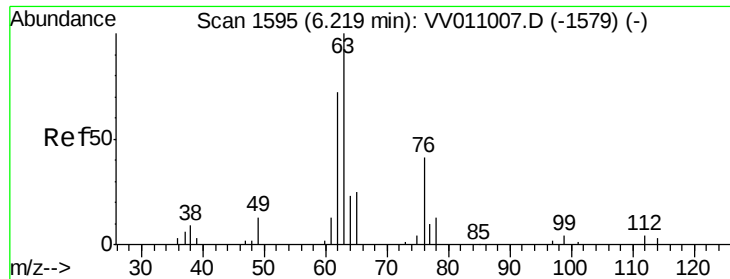
Tgt Ion:	95	Resp:	51431
Ion	Ratio	Lower	Upper
95	100		
97	62.6	43.4	80.6
132	92.8	68.8	127.8
130	96.9	69.9	129.9



#36
 Methylcyclohexane
 Concen: 27.817 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion:	83	Resp:	77101
Ion	Ratio	Lower	Upper
83	100		
55	74.4	57.0	85.4
98	49.3	36.2	54.4

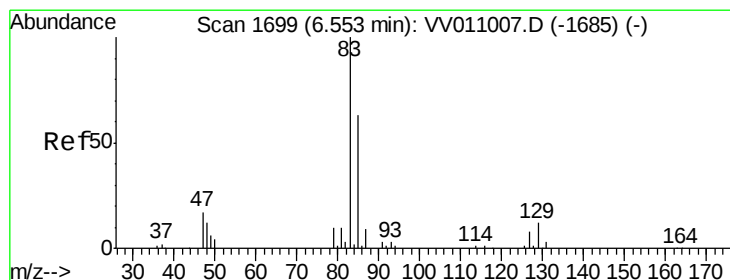
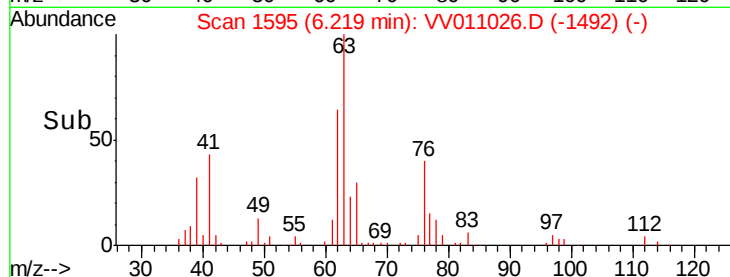
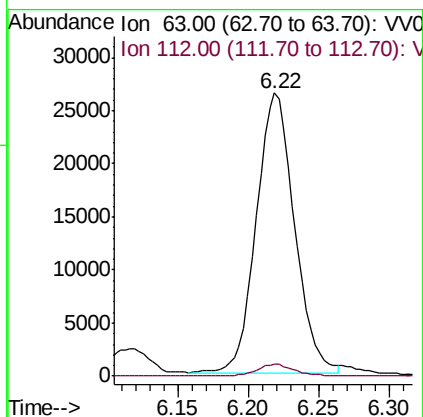
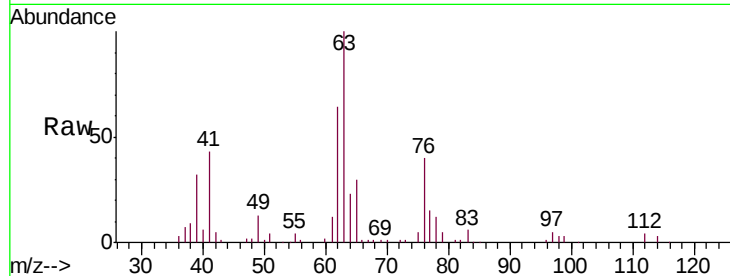




#40
 1,2-Dichloropropane
 Concen: 27.883 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

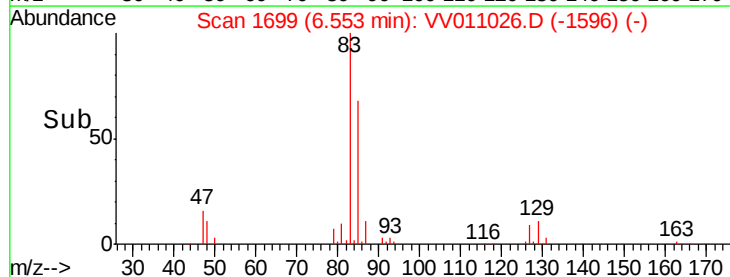
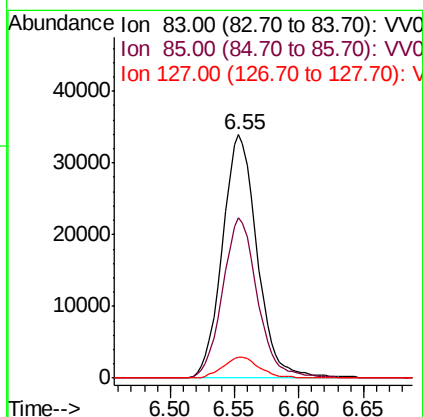
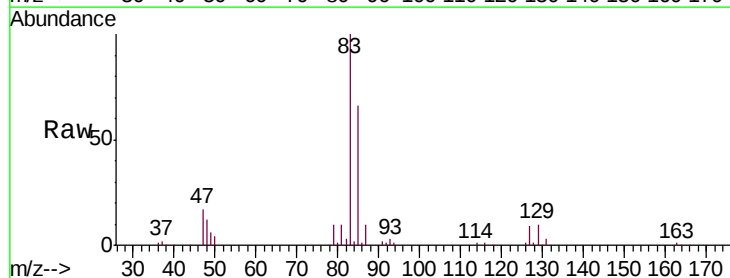
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02571

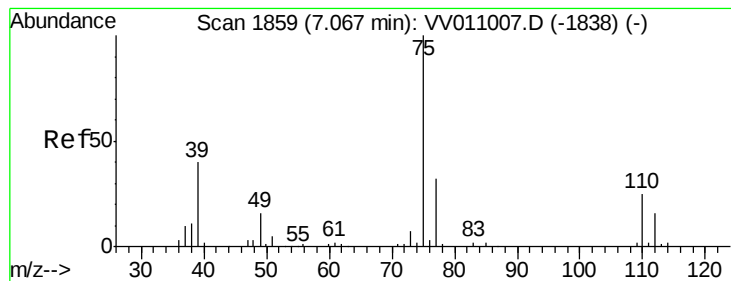
Tgt Ion: 63 Resp: 49725
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.6 5.4



#41
 Bromodichloromethane
 Concen: 26.683 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion: 83 Resp: 63602
 Ion Ratio Lower Upper
 83 100
 85 65.8 46.7 86.7
 127 8.5 7.1 10.7



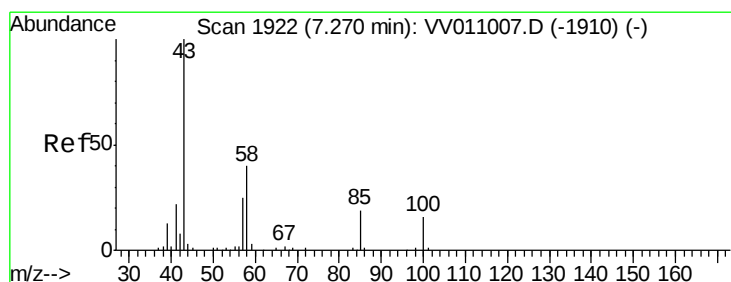
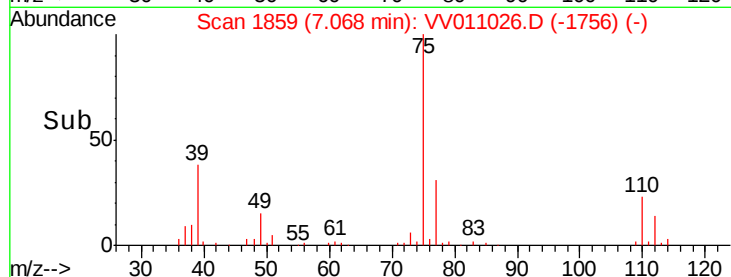
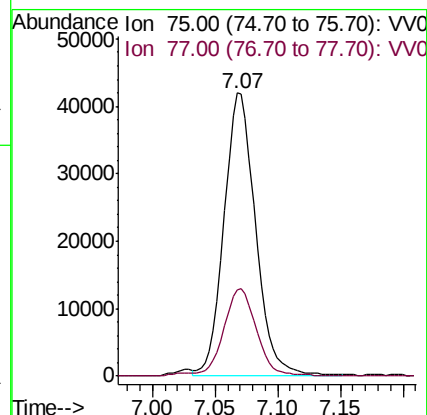
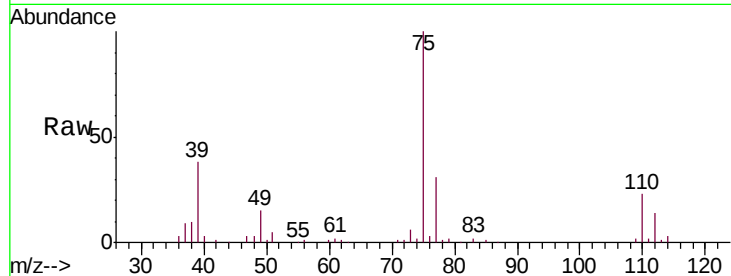


#42

cis-1,3-Dichloropropene
Concen: 27.839 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

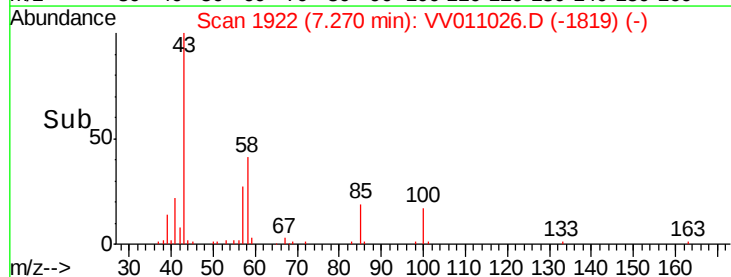
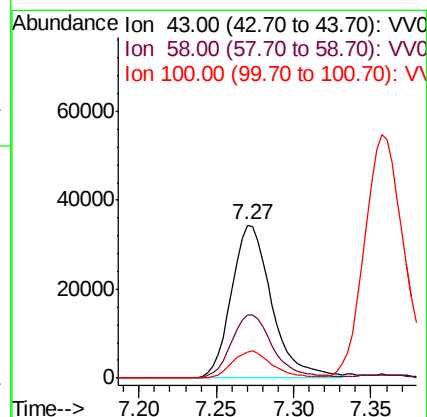
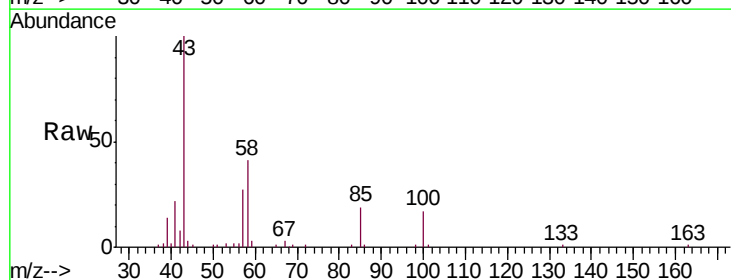
Tgt Ion: 75 Resp: 73898
Ion Ratio Lower Upper
75 100
77 30.7 22.9 42.5

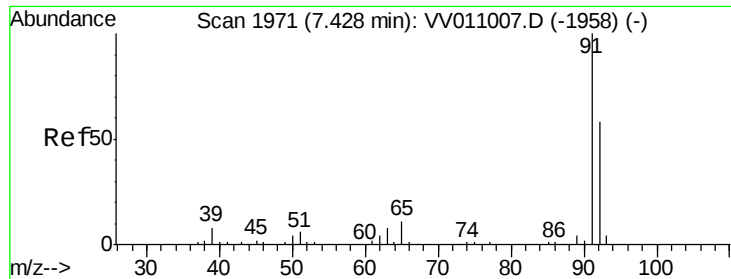


#43

4-Methyl-2-pentanone
Concen: 48.725 ug/L
RT: 7.27 min Scan# 1922
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 43 Resp: 62289
Ion Ratio Lower Upper
43 100
58 42.8 33.1 49.7
100 17.8 13.1 19.7





#44

Toluene

Concen: 28.970 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

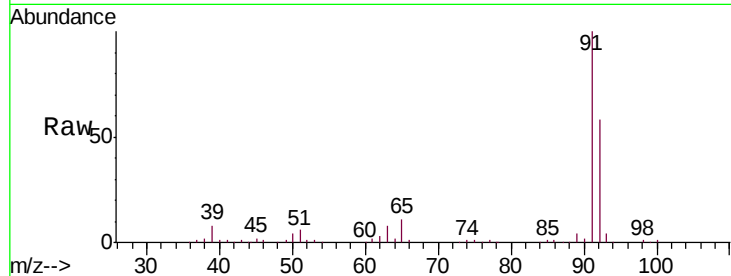
VSTD02571

Tgt Ion: 91 Resp: 218152

Ion Ratio Lower Upper

91 100

92 57.9 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VV011007.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV011007.D (-1958) (-)

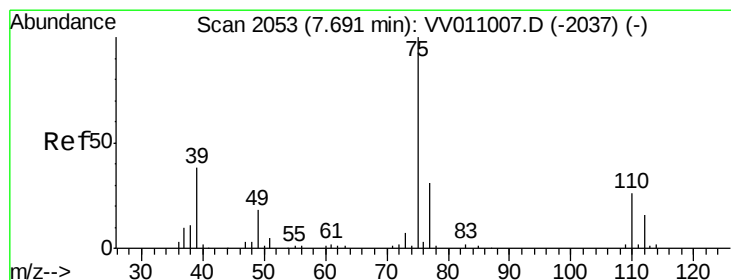
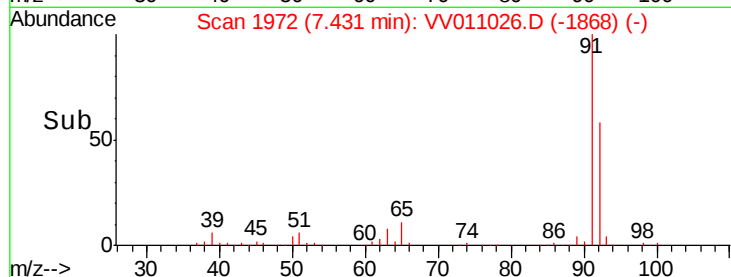
7.43

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 27.327 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011026.D

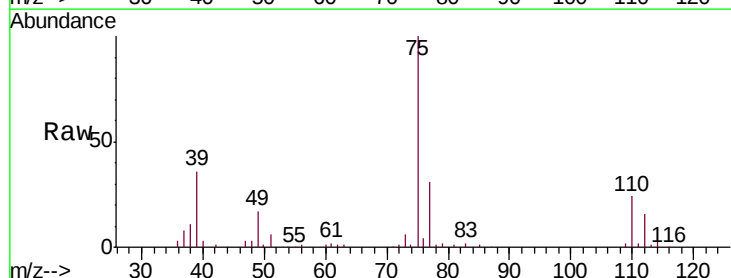
Acq: 23 May 2019 13:34

Tgt Ion: 75 Resp: 61105

Ion Ratio Lower Upper

75 100

77 31.0 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV011007.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV011007.D (-2037) (-)

7.69

40000

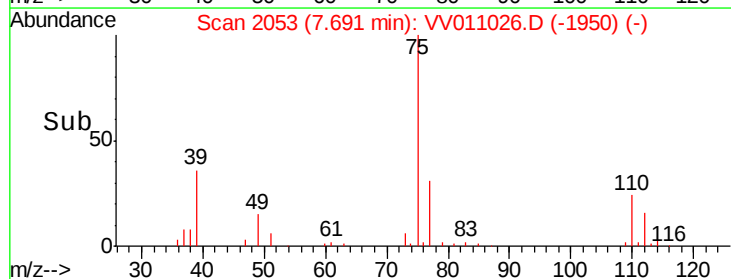
30000

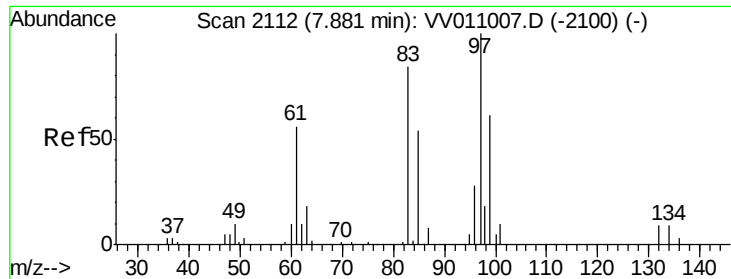
20000

10000

0

Time-->

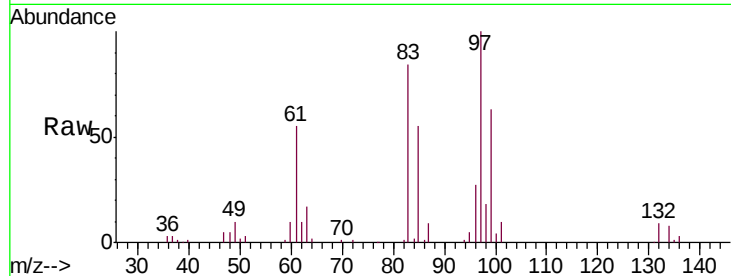




#46
 1,1,2-Trichloroethane
 Concen: 27.665 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02571

Tgt Ion:	97	Resp:	42040
Ion	Ratio	Lower	Upper
97	100		
83	84.1	61.6	114.4
85	54.7	40.2	74.6
99	63.1	45.1	83.7



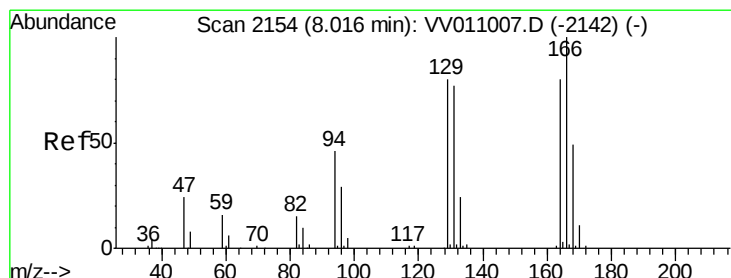
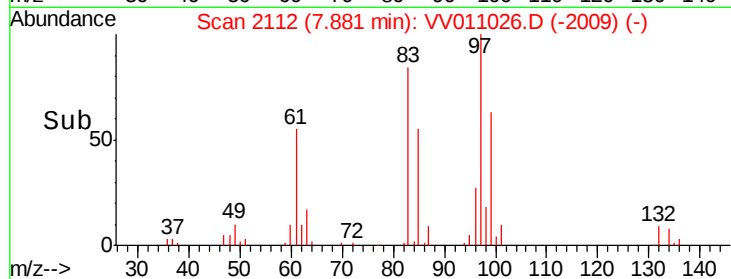
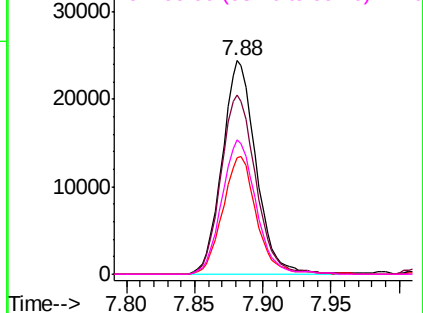
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

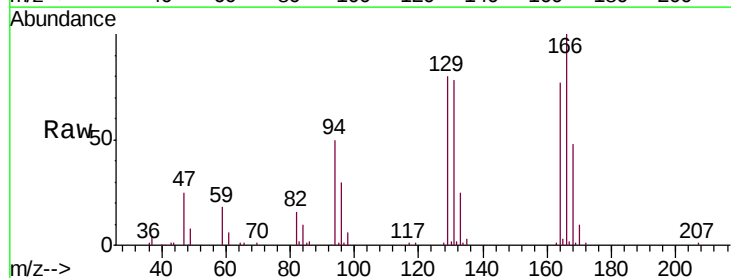
Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47
 Tetrachloroethene
 Concen: 25.528 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion:	164	Resp:	37361
Ion	Ratio	Lower	Upper
164	100		
129	103.7	67.8	125.8
131	101.4	64.1	119.1
166	130.3	86.1	159.9



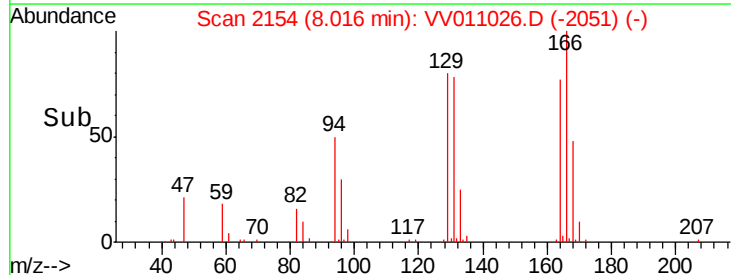
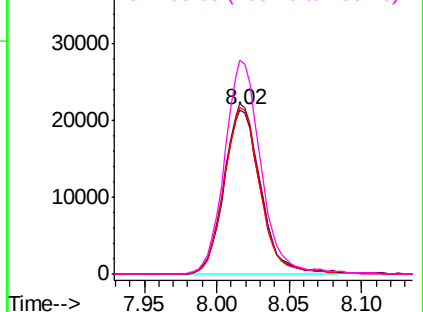
Abundance

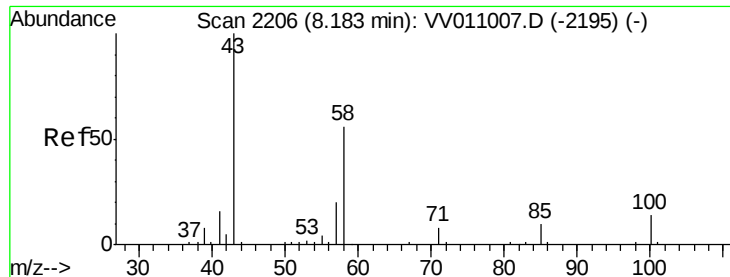
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

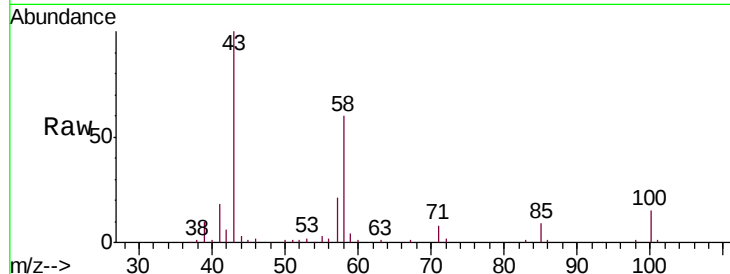




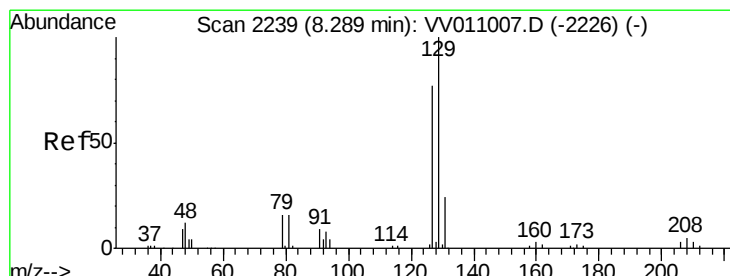
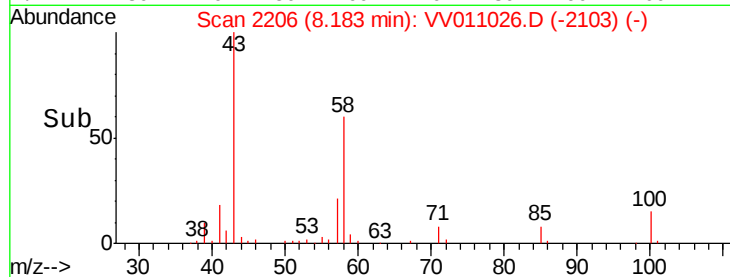
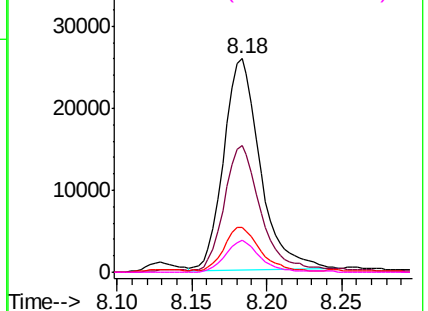
#49
2-Hexanone
Concen: 46.907 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Instrument :
MSVOA_V
ClientSampleId :
VSTD02571

Tgt Ion: 43 Resp: 43782
Ion Ratio Lower Upper
43 100
58 62.7 46.0 69.0
57 21.7 14.5 21.7
100 14.2 10.3 15.5

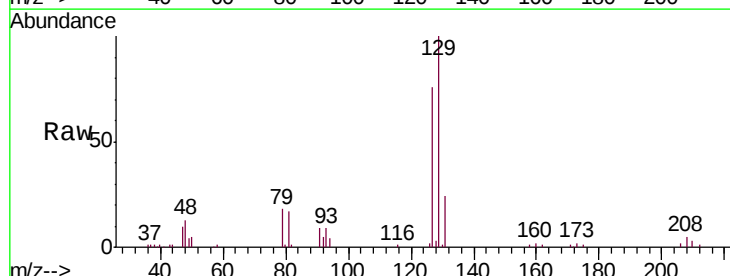


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

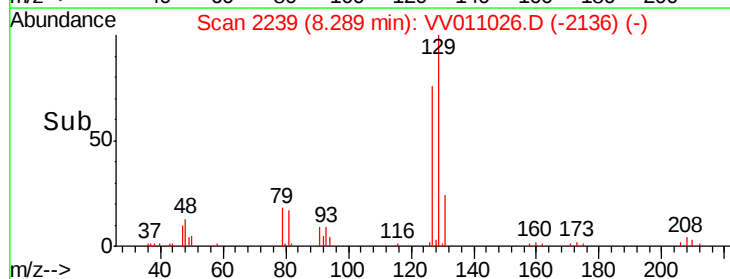
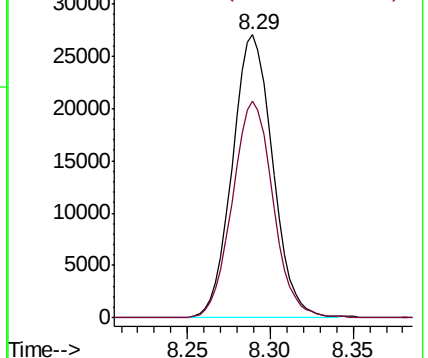


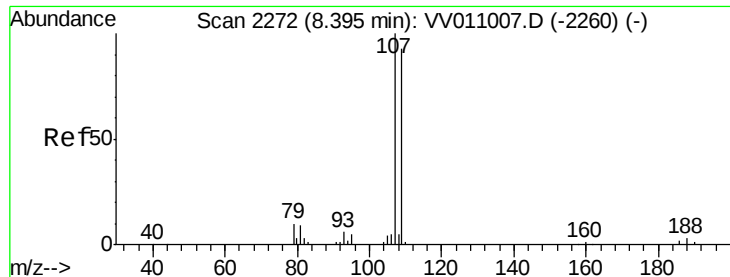
#50
Dibromochloromethane
Concen: 25.636 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion: 129 Resp: 45853
Ion Ratio Lower Upper
129 100
127 76.5 54.4 101.0



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





#51

1,2-Dibromoethane

Concen: 26.121 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

VSTD02571

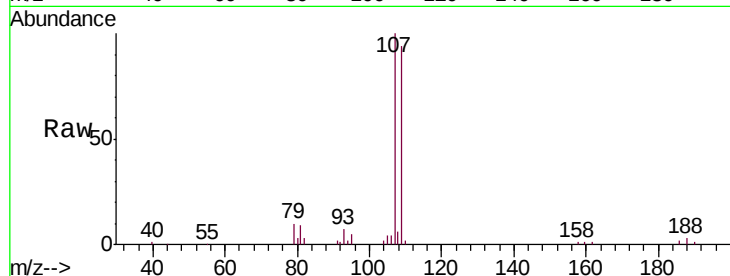
Tgt Ion:107 Resp: 38386

Ion Ratio Lower Upper

107 100

109 93.9 68.0 126.4

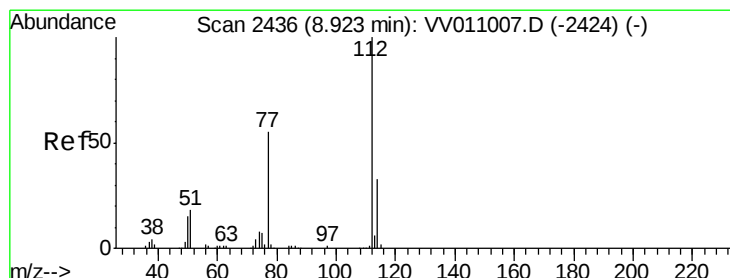
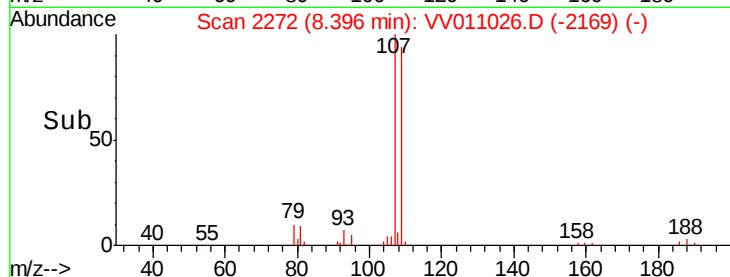
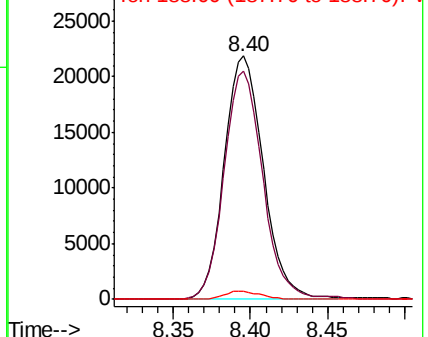
188 3.2 2.3 3.5



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



#52

Chlorobenzene

Concen: 27.218 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

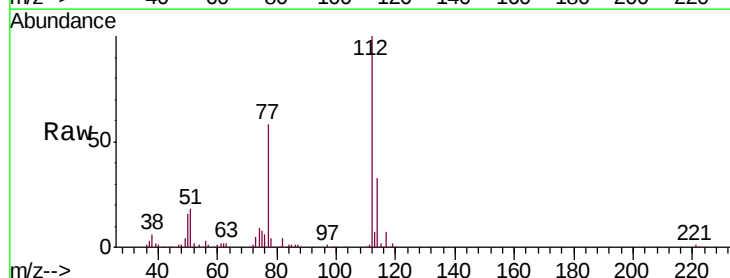
Tgt Ion:112 Resp: 140487

Ion Ratio Lower Upper

112 100

77 57.5 43.0 64.4

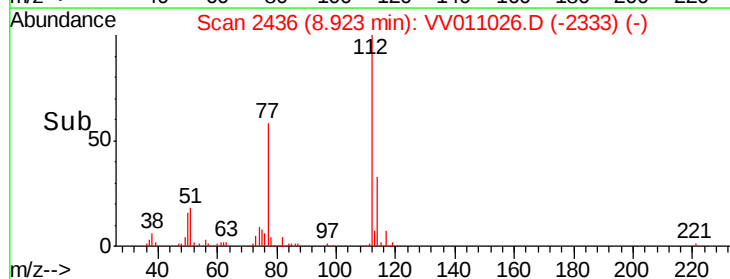
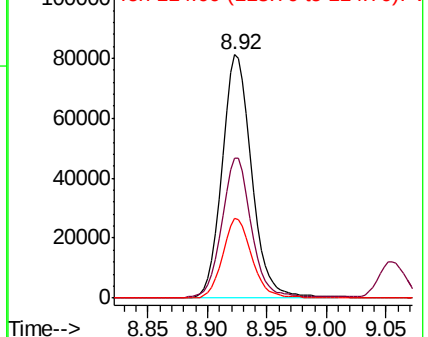
114 32.7 22.0 40.8

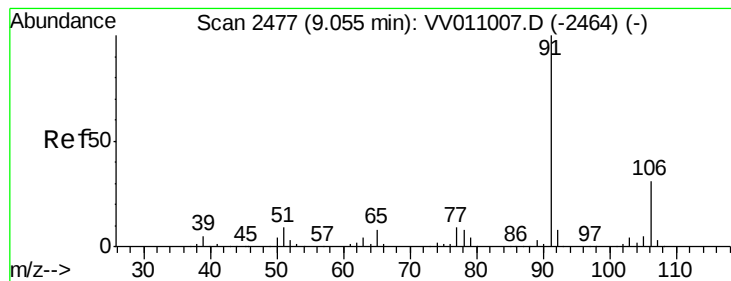


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 29.769 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

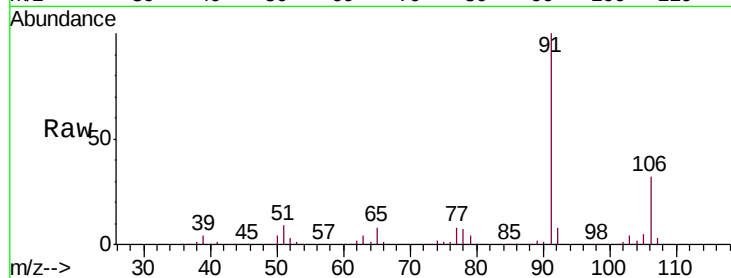
VSTD02571

Tgt Ion: 91 Resp: 244267

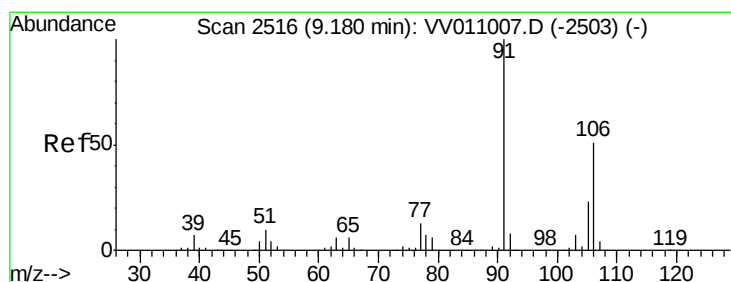
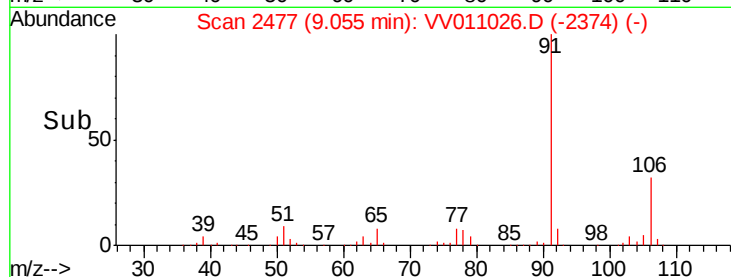
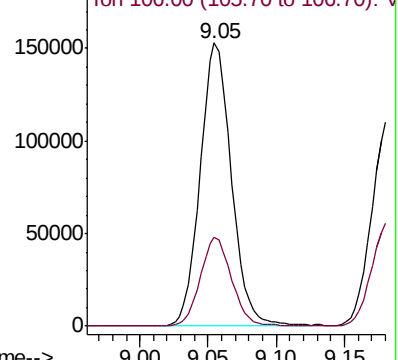
Ion Ratio Lower Upper

91 100

106 31.5 22.4 41.6



Abundance Ion 91.00 (90.70 to 91.70): VV011007.D (-2464) (-)



#54

m,p-Xylene

Concen: 29.671 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV011026.D

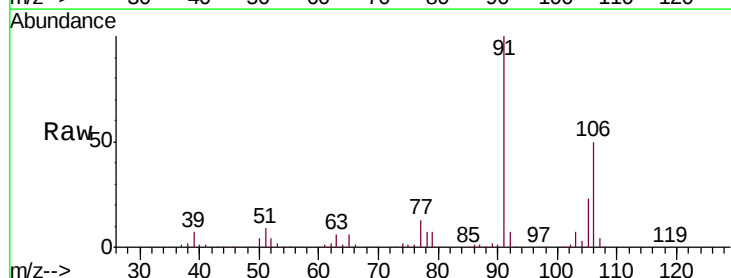
Acq: 23 May 2019 13:34

Tgt Ion: 106 Resp: 94890

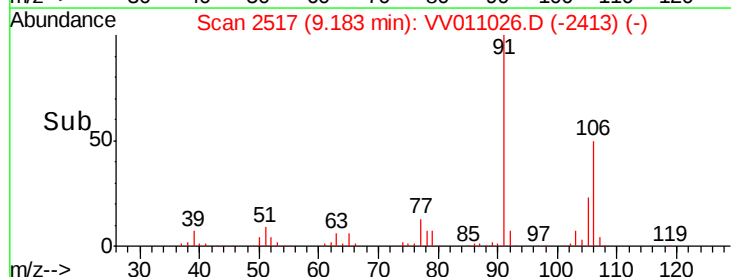
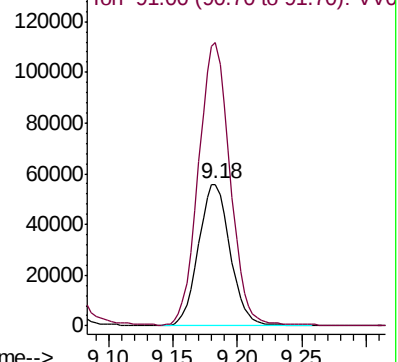
Ion Ratio Lower Upper

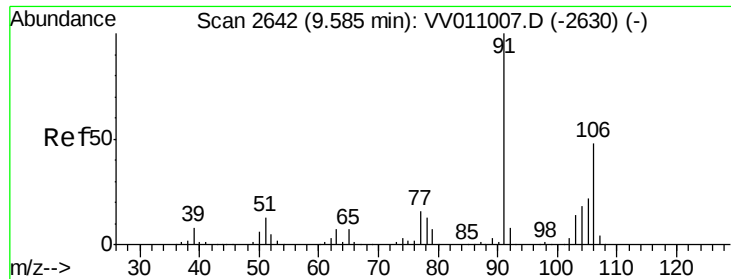
106 100

91 199.5 138.3 256.9



Abundance Ion 106.00 (105.70 to 106.70): VV011026.D (-2413) (-)

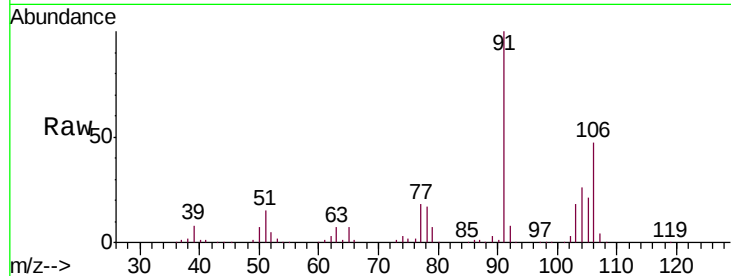




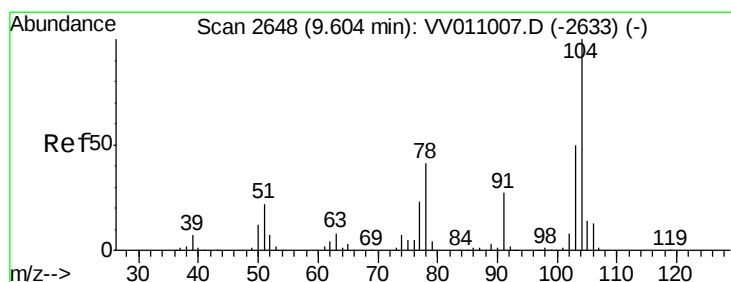
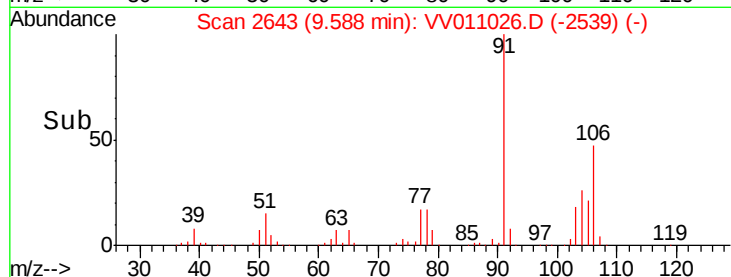
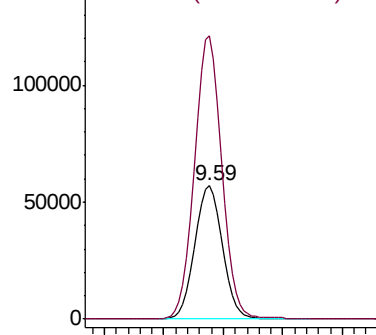
#55
o-xylene
Concen: 30.290 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Instrument :
MSVOA_V
ClientSampled :
VSTD02571

Tgt Ion:106 Resp: 92418
Ion Ratio Lower Upper
106 100
91 212.4 145.9 270.9

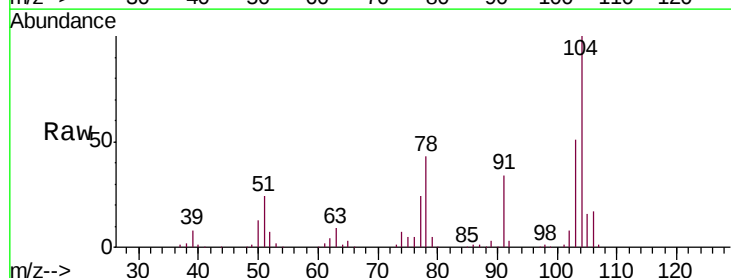


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

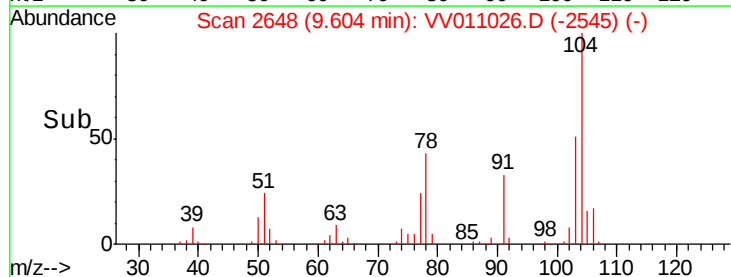
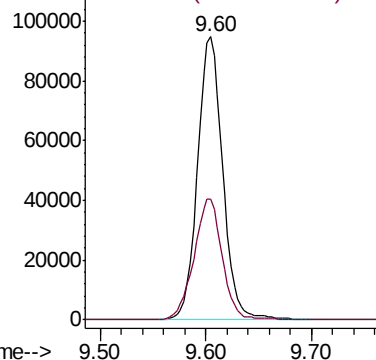


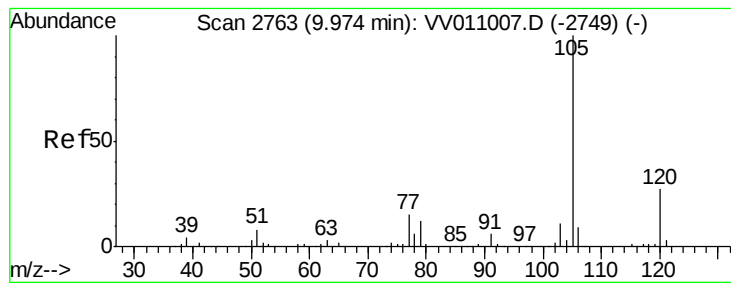
#56
Styrene
Concen: 29.841 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV011026.D
Acq: 23 May 2019 13:34

Tgt Ion:104 Resp: 156920
Ion Ratio Lower Upper
104 100
78 42.6 29.2 54.2



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





#57

Isopropylbenzene

Concen: 29.925 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

VSTD02571

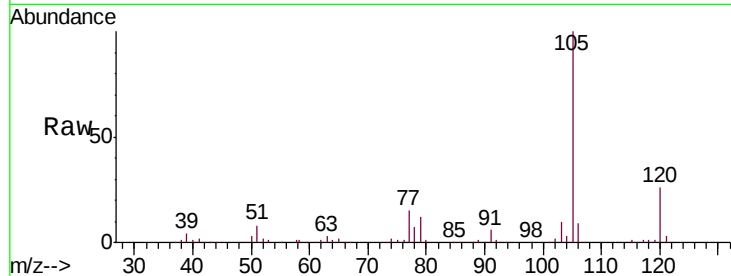
Tgt Ion: 105 Resp: 240870

Ion Ratio Lower Upper

105 100

120 26.7 21.9 32.9

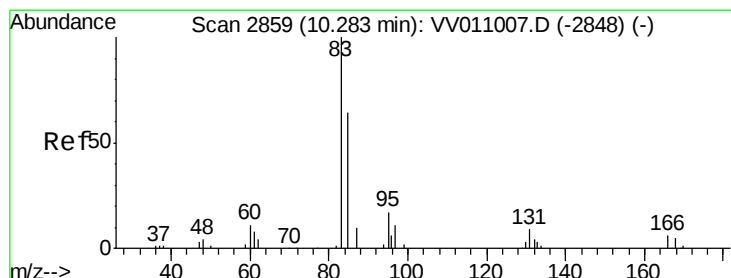
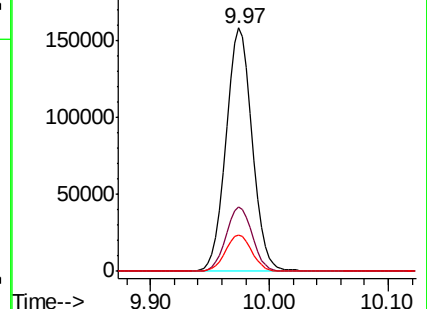
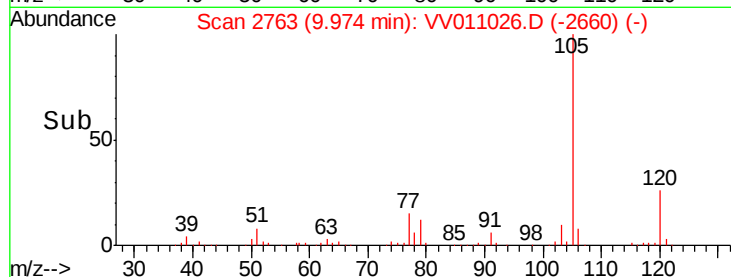
77 15.1 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.915 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

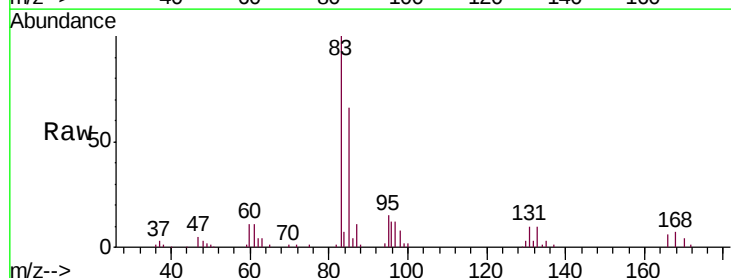
Tgt Ion: 83 Resp: 53854

Ion Ratio Lower Upper

83 100

85 66.0 44.4 82.5

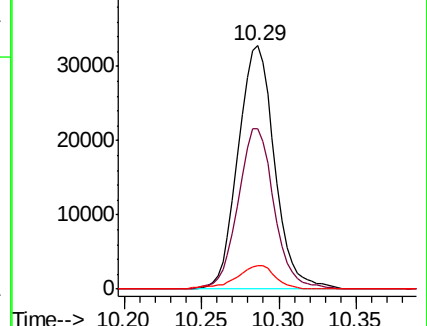
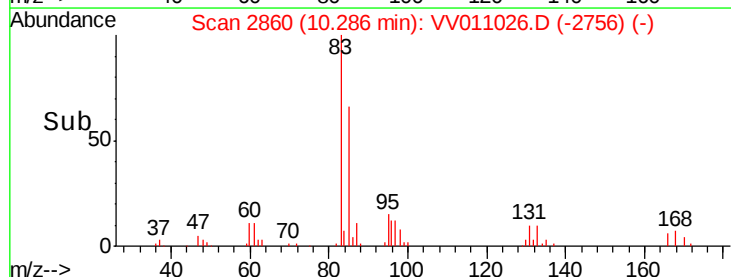
131 9.7 8.2 12.4

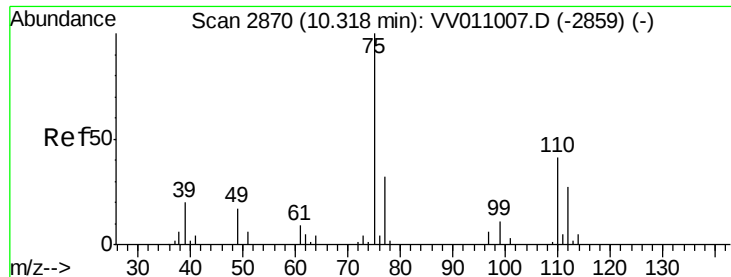


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 25.283 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampleId :

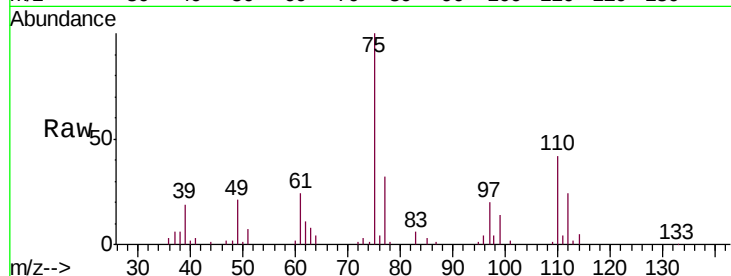
VSTD02571

Tgt Ion: 75 Resp: 37163

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV011007.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV011007.D (-2859) (-)

10.32

25000

20000

15000

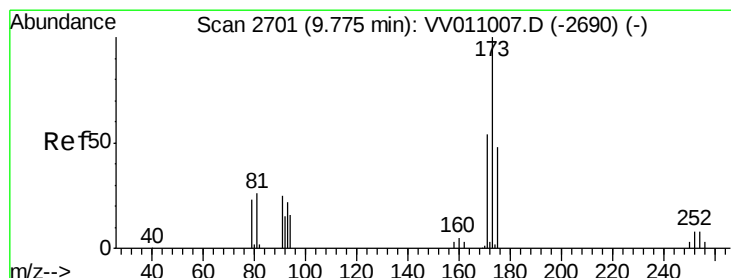
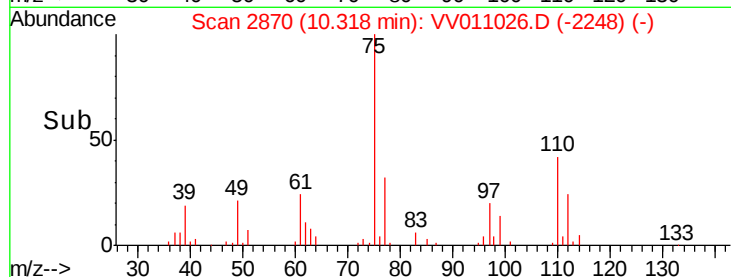
10000

5000

0

Time-->

10.25 10.30 10.35



#62

Bromoform

Concen: 24.541 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

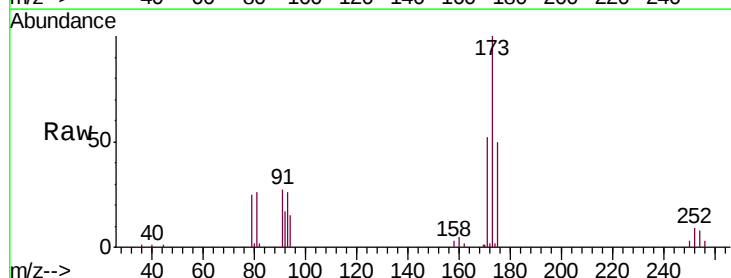
Tgt Ion: 173 Resp: 24443

Ion Ratio Lower Upper

173 100

175 49.2 40.3 60.5

254 8.2 6.1 9.1



Abundance Ion 173.00 (172.70 to 173.70): VV011007.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV011007.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV011007.D (-2690) (-)

9.77

20000

15000

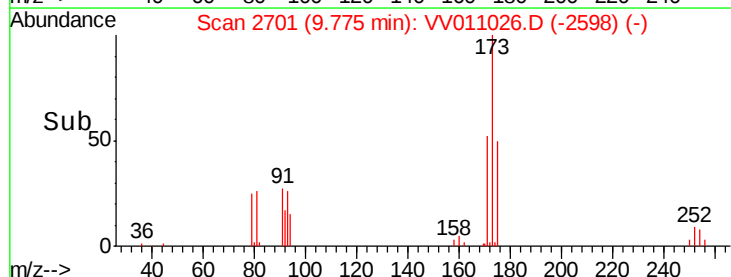
10000

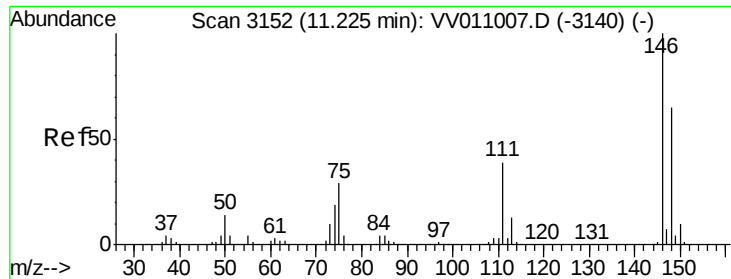
5000

0

Time-->

9.70 9.75 9.80 9.85

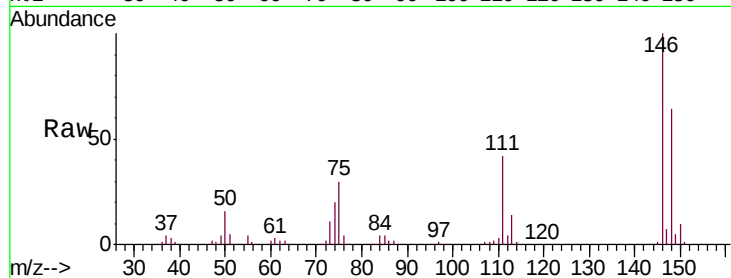




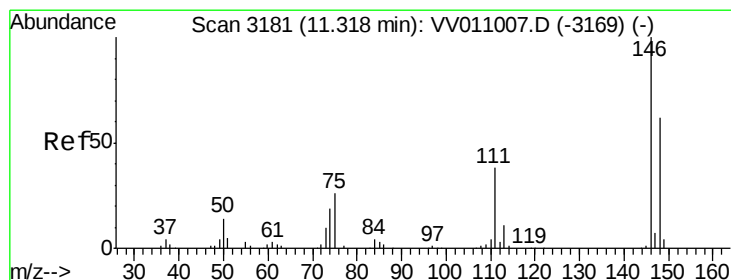
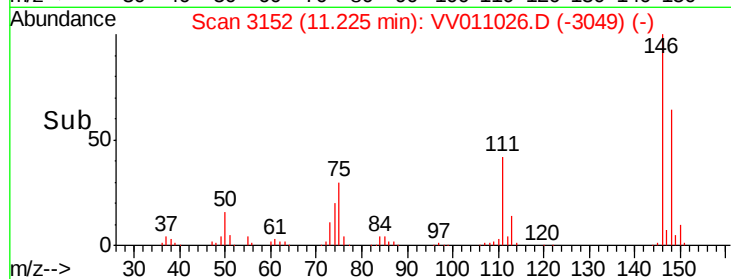
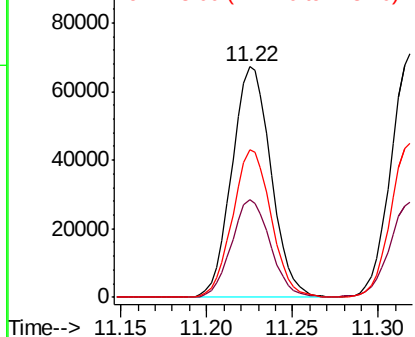
#63
 1,3-Dichlorobenzene
 Concen: 27.810 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02571

Tgt Ion:146 Resp: 106422
 Ion Ratio Lower Upper
 146 100
 111 42.4 28.4 52.8
 148 63.9 44.8 83.2

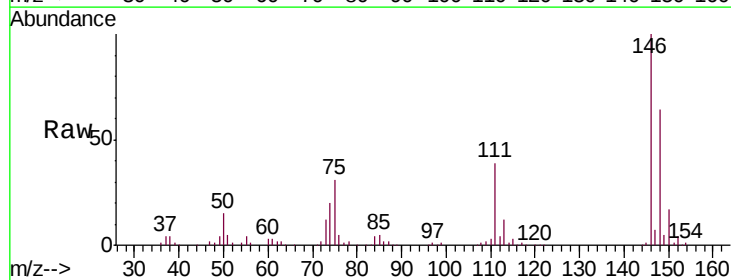


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

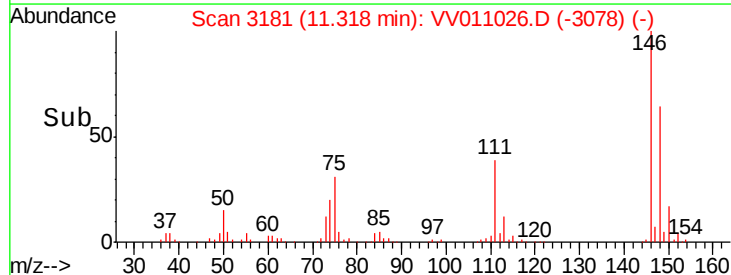
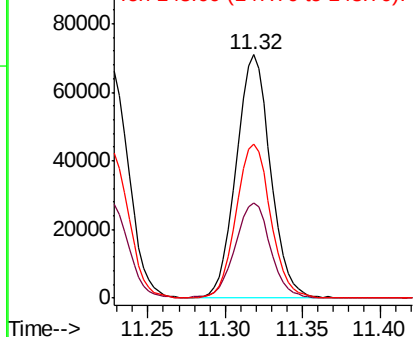


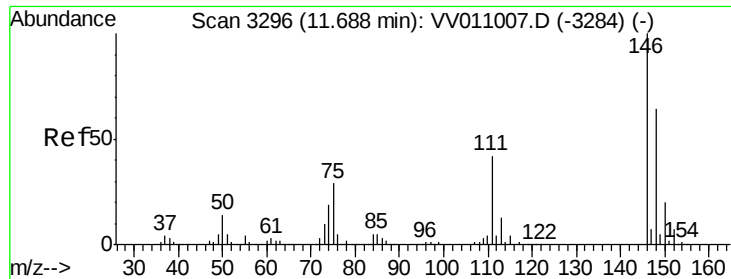
#64
 1,4-Dichlorobenzene
 Concen: 27.737 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion:146 Resp: 109316
 Ion Ratio Lower Upper
 146 100
 111 39.1 26.5 49.1
 148 63.5 45.0 83.6



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

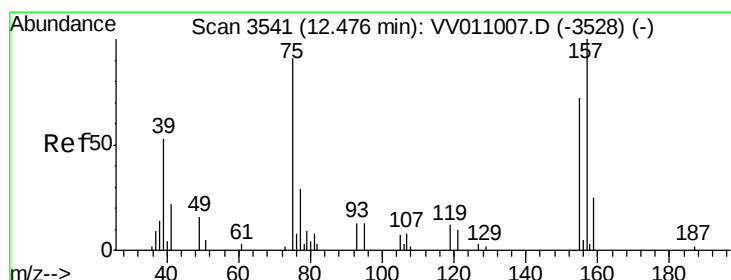
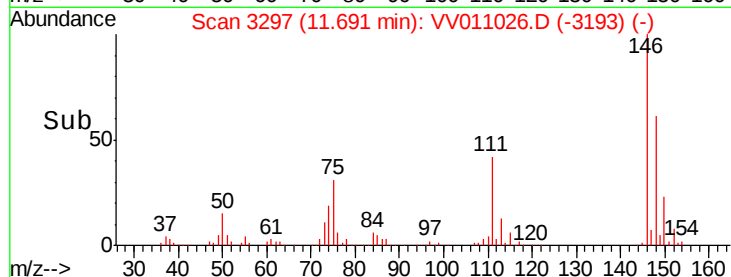
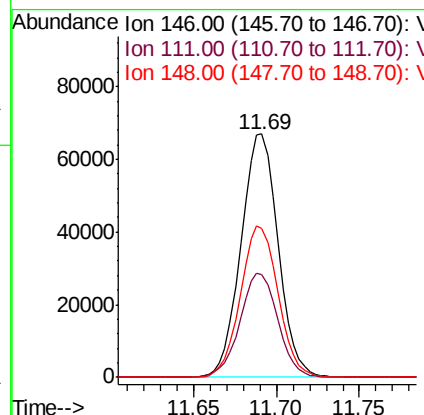
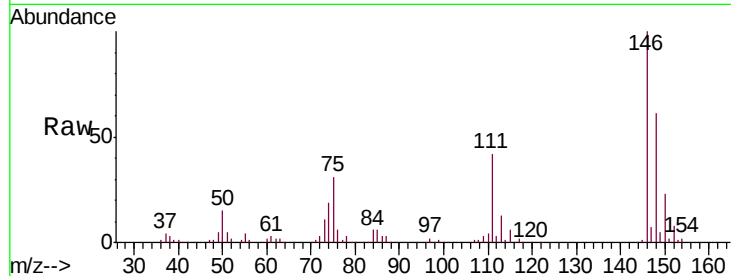




#65
 1,2-Dichlorobenzene
 Concen: 28.166 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

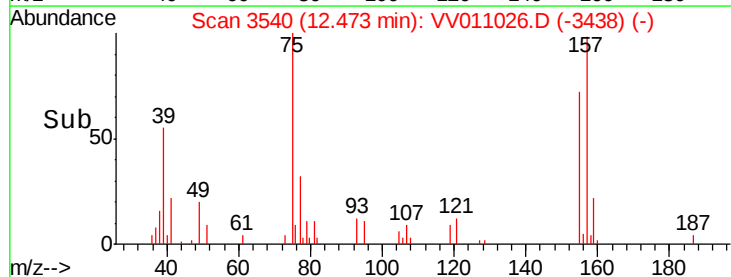
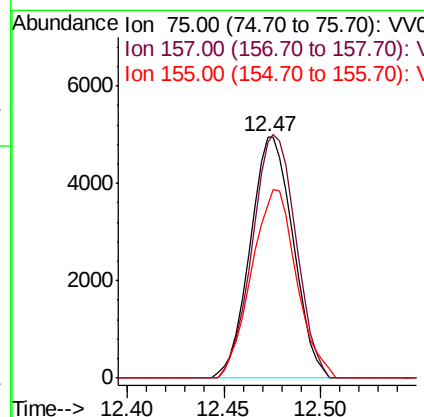
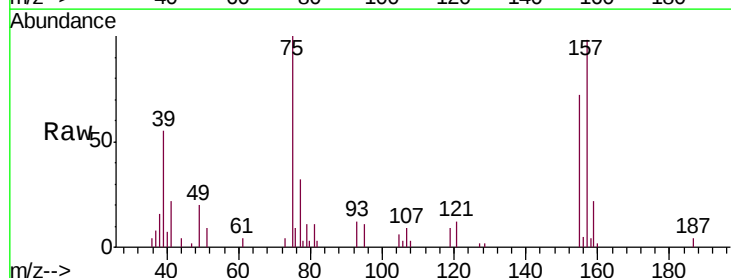
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02571

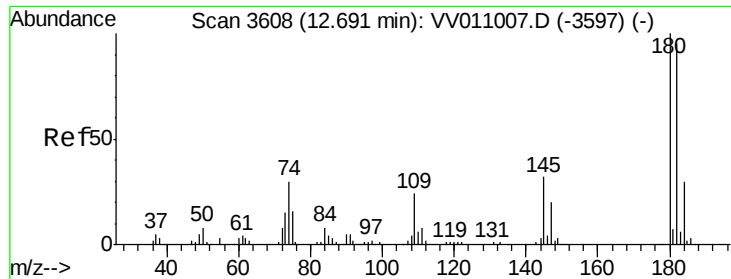
Tgt Ion: 146 Resp: 104509
 Ion Ratio Lower Upper
 146 100
 111 42.3 32.8 49.2
 148 61.2 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.994 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion: 75 Resp: 7662
 Ion Ratio Lower Upper
 75 100
 157 97.5 87.0 130.4
 155 71.9 67.8 101.8

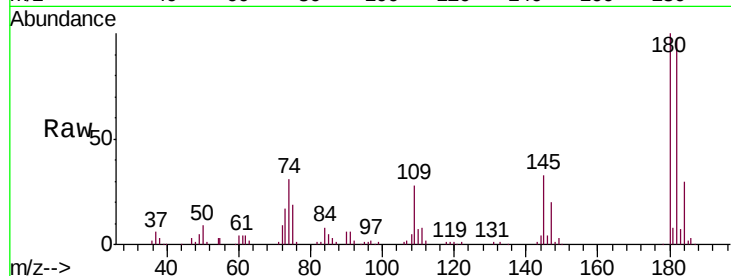




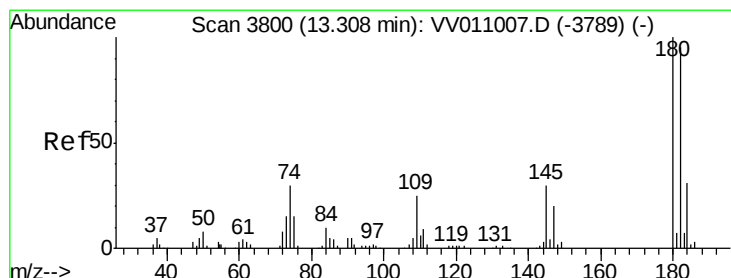
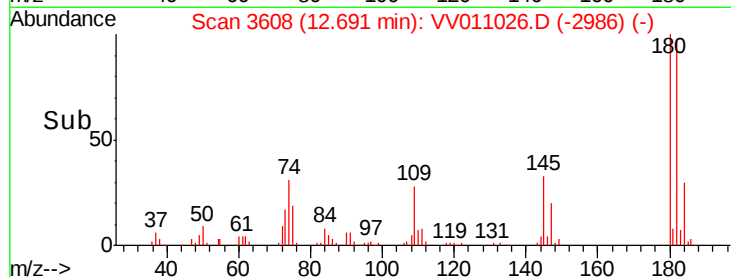
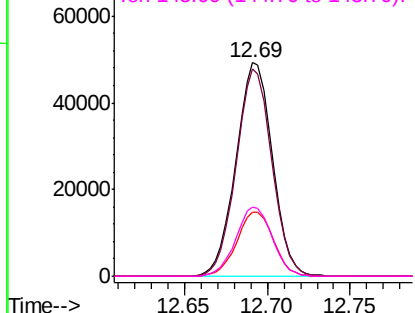
#67
 1,3,5-Trichlorobenzene
 Concen: 26.772 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02571

Tgt Ion:180 Resp: 75154
 Ion Ratio Lower Upper
 180 100
 182 95.0 76.2 114.2
 184 30.3 24.6 37.0
 145 32.2 24.1 36.1

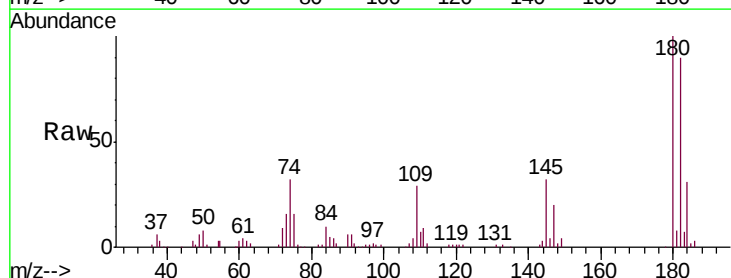


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

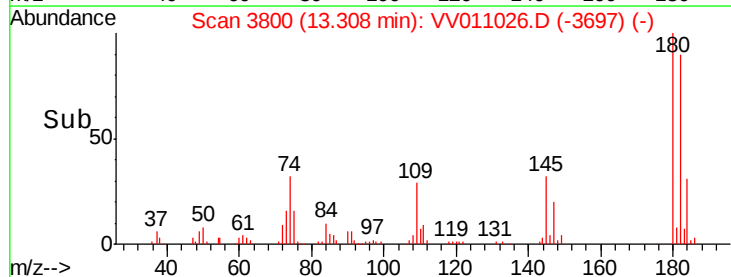
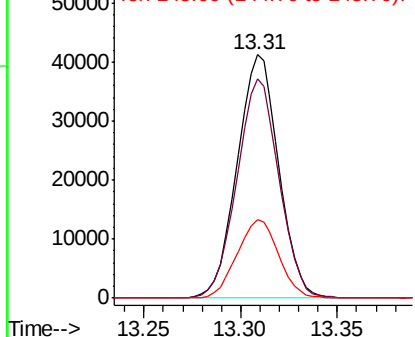


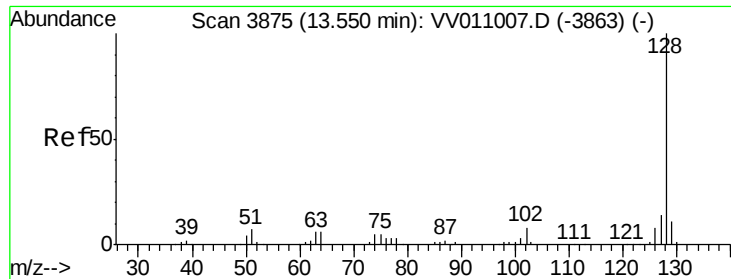
#68
 1,2,4-trichlorobenzene
 Concen: 27.737 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011026.D
 Acq: 23 May 2019 13:34

Tgt Ion:180 Resp: 61541
 Ion Ratio Lower Upper
 180 100
 182 91.2 75.4 113.2
 145 32.3 25.1 37.7



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





#69

Naphthalene

Concen: 27.832 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

Instrument :

MSVOA_V

ClientSampled :

VSTD02571

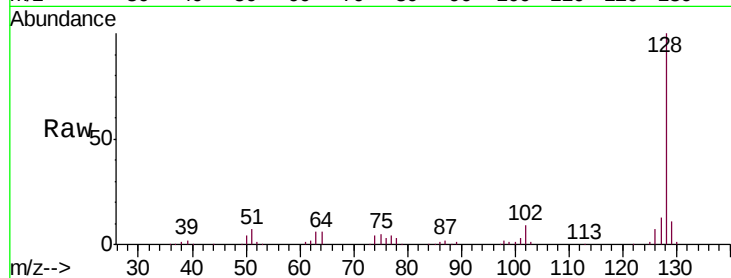
Tgt Ion:128 Resp: 123790

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

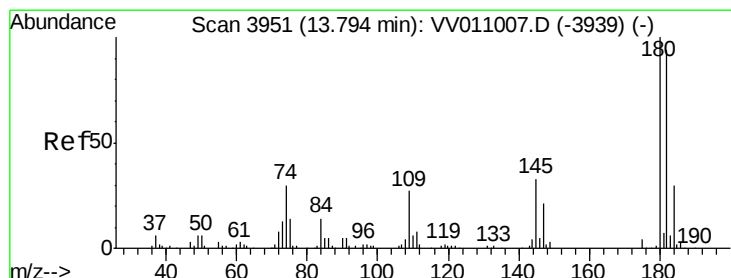
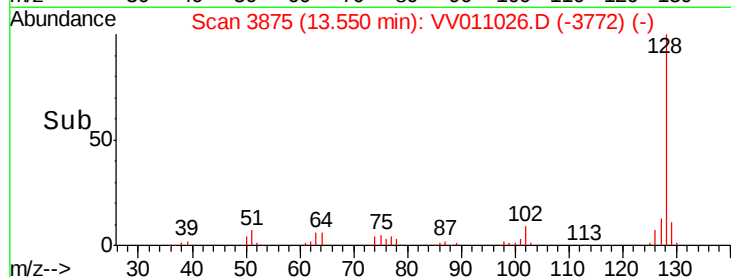
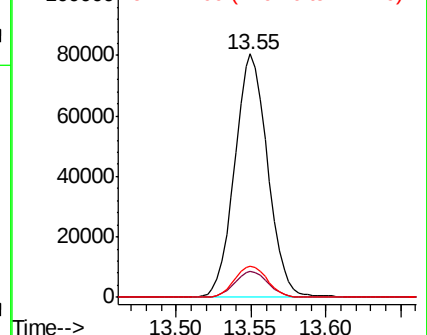
127 12.8 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 27.187 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011026.D

Acq: 23 May 2019 13:34

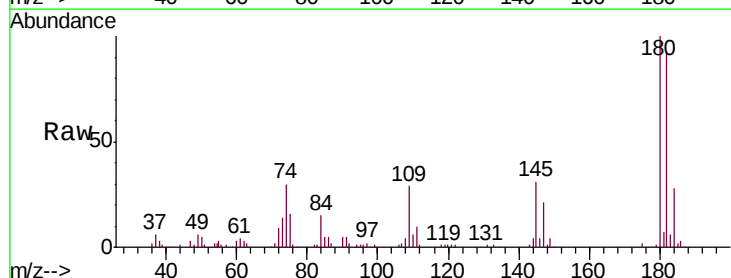
Tgt Ion:180 Resp: 58890

Ion Ratio Lower Upper

180 100

182 93.8 75.7 113.5

145 33.9 26.9 40.3



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

