

Data File : VU024584.D
Acq On : 15 Jun 2018 10:34
Operator : MD/SY
Sample : VSTD01041
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

Quant Time: Jun 16 00:22:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061518WMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jun 16 00:21:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	322131	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	299163	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	155560	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	18358	9.96	ug/L	0.00
7) Chloroethane-d5	1.68	69	13315	9.39	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.28	63	36442	9.89	ug/L	0.00
21) 2-Butanone-d5	4.18	46	30313	19.48	ug/L	0.00
24) Chloroform-d	4.65	84	36708	9.88	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.32	65	23105	9.92	ug/L	0.00
32) Benzene-d6	5.35	84	72324	9.93	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.34	67	24155	10.00	ug/L	0.00
41) Toluene-d8	7.57	98	71381	9.71	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	11258	9.13	ug/L	0.00
47) 2-Hexanone-d5	8.32	63	23587	18.96	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.44	84	33666	9.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	29995	9.99	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	27017	10.369 ug/L	100
3) Chloromethane	1.33	50	24087	10.280 ug/L	98
5) Vinyl chloride	1.41	62	25976	10.349 ug/L	90
6) Bromomethane	1.63	94	10746	9.069 ug/L	99
8) Chloroethane	1.70	64	15418	10.461 ug/L	99
9) Trichlorofluoromethane	1.89	101	37917	10.290 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	21162	10.125 ug/L	96
12) 1,1-Dichloroethene	2.29	96	20170	10.534 ug/L	99
13) Acetone	2.32	43	37311	22.458 ug/L	100
14) Carbon disulfide	2.48	76	63339	10.095 ug/L	100
15) Methyl Acetate	2.62	43	25789	10.129 ug/L	98
16) Methylene chloride	2.71	84	24669	10.477 ug/L	99
17) trans-1,2-Dichloroethene	2.99	96	22168	10.261 ug/L	97
18) Methyl tert-butyl Ether	3.00	73	72571	10.331 ug/L	99
19) 1,1-Dichloroethane	3.45	63	41709	10.488 ug/L	100
20) cis-1,2-Dichloroethene	4.24	96	26093	10.360 ug/L	97
22) 2-Butanone	4.27	43	43690	20.637 ug/L	93
23) Bromochloromethane	4.55	128	12990	10.282 ug/L	93
25) Chloroform	4.68	83	42882	10.453 ug/L	96
27) 1,2-Dichloroethane	5.41	62	32048	10.136 ug/L	99
29) Cyclohexane	5.01	56	38680	10.430 ug/L	98
30) 1,1,1-Trichloroethane	4.92	97	38505	10.625 ug/L	99
31) Carbon tetrachloride	5.14	117	34477	10.394 ug/L	96
33) Benzene	5.40	78	91687	10.430 ug/L	100
34) Trichloroethene	6.19	95	24792	10.204 ug/L	98
35) Methylcyclohexane	6.42	83	40339	10.328 ug/L	99
37) 1,2-Dichloropropane	6.44	63	25730	10.529 ug/L	# 95
38) Bromodichloromethane	6.76	83	33121	10.283 ug/L	97
39) cis-1,3-Dichloropropene	7.28	75	37523	9.796 ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	73943	20.379 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	100920	10.331	ug/L	96
44) trans-1,3-Dichloropropene	7.89	75	34688	9.902	ug/L	100
45) 1,1,2-Trichloroethane	8.07	97	23113	10.052	ug/L	96
46) Tetrachloroethene	8.23	164	21267	10.398	ug/L	98
48) 2-Hexanone	8.37	43	57308	19.438	ug/L	97
49) Dibromochloromethane	8.48	129	28215	10.015	ug/L	98
50) 1,2-Dibromoethane	8.59	107	25702	10.185	ug/L	100
51) Chlorobenzene	9.12	112	66422	10.146	ug/L	98
52) Ethylbenzene	9.25	91	114865	10.256	ug/L	98
53) m,p-Xylene	9.38	106	44183	10.251	ug/L	99
54) o-xylene	9.78	106	43066	10.128	ug/L	98
55) Styrene	9.80	104	71131	9.838	ug/L	100
56) Isopropylbenzene	10.17	105	114565	10.212	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	40345	10.183	ug/L	96
59) 1,2,3-Trichloropropane	10.50	75	31251	10.060	ug/L	98
61) Bromoform	9.96	173	23261	10.310	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	54016	10.335	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	55579	10.542	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	54744	10.466	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	8947	9.774	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	42902	10.266	ug/L	99
68) 1,2,4-trichlorobenzene	13.51	180	33746	9.709	ug/L	99
69) Naphthalene	13.75	128	90213	9.398	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	34479	9.783	ug/L	98

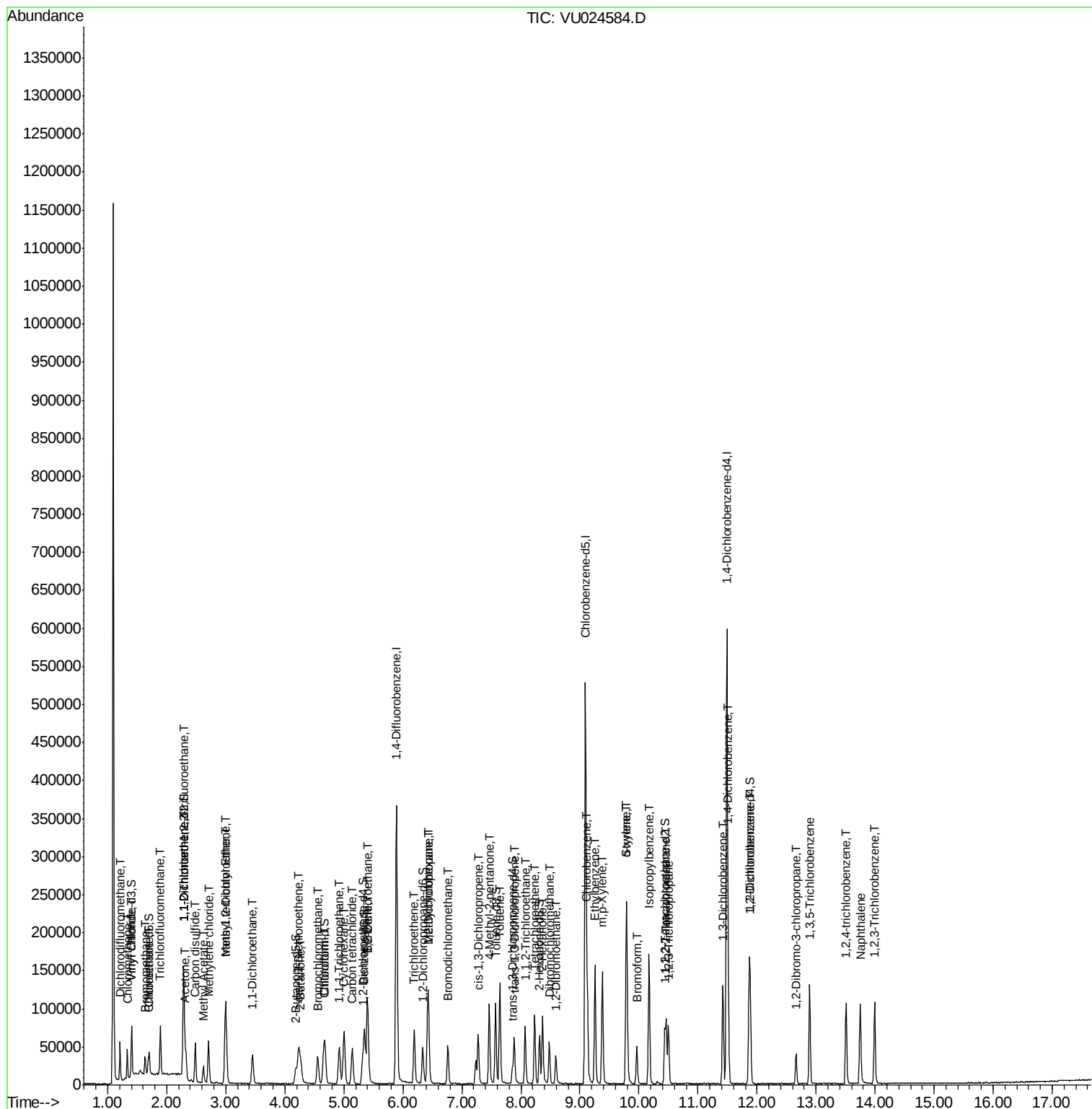
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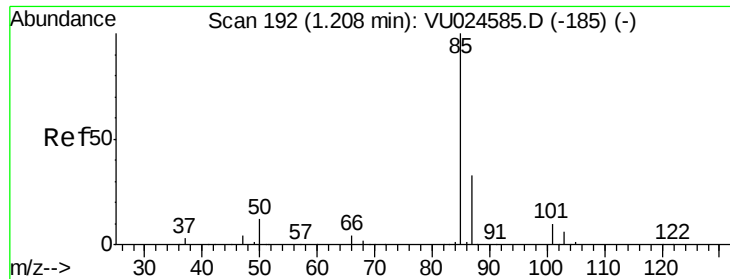
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#2

Dichlorodifluoromethane

Concen: 10.369 ug/L

RT: 1.21 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

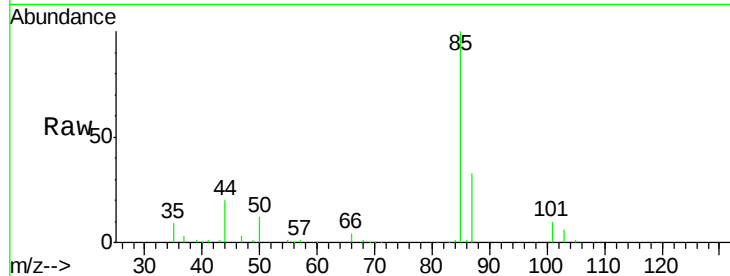
VSTD01041

Tgt Ion: 85 Resp: 27017

Ion Ratio Lower Upper

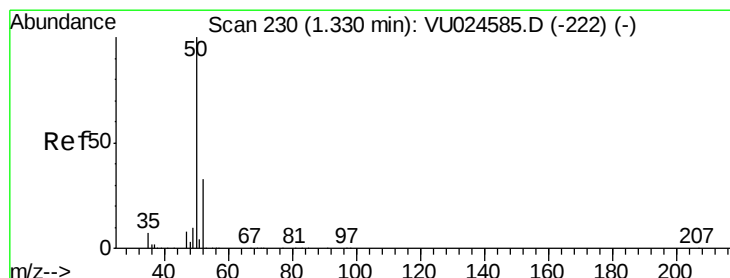
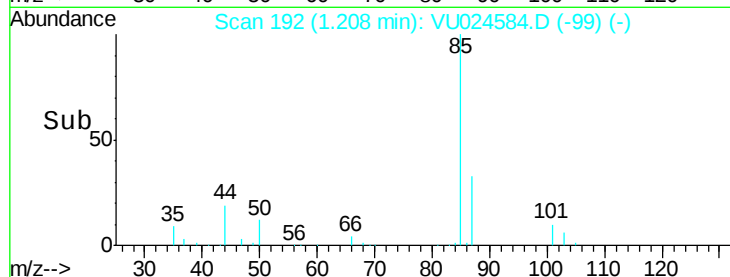
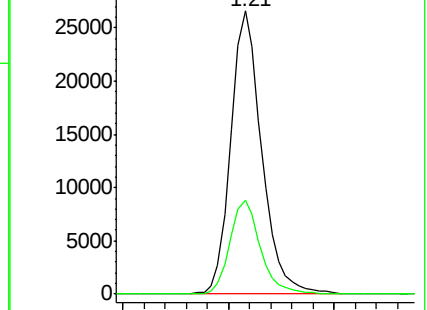
85 100

87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU024585.D (-185) (-)

Ion 87.00 (86.70 to 87.70): VU024585.D (-185) (-)



#3

Chloromethane

Concen: 10.280 ug/L

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024584.D

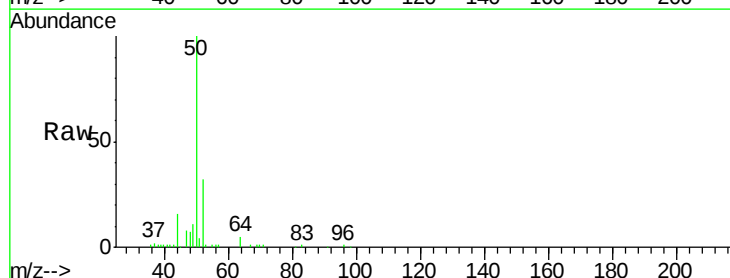
Acq: 15 Jun 2018 10:34

Tgt Ion: 50 Resp: 24087

Ion Ratio Lower Upper

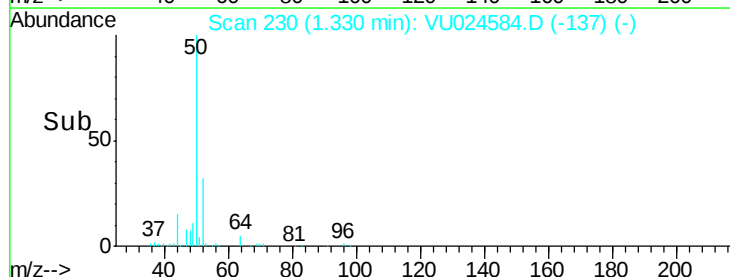
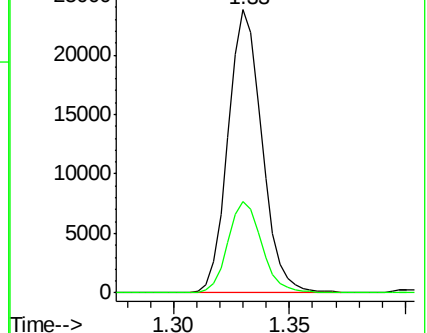
50 100

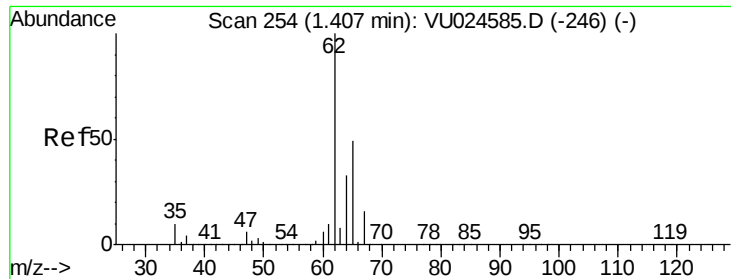
52 32.4 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU024585.D (-222) (-)

Ion 52.00 (51.70 to 52.70): VU024585.D (-222) (-)





#5

Vinyl chloride

Concen: 10.349 ug/L

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

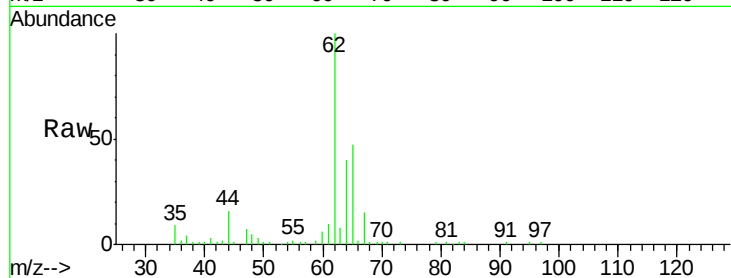
VSTD01041

Tgt Ion: 62 Resp: 25976

Ion Ratio Lower Upper

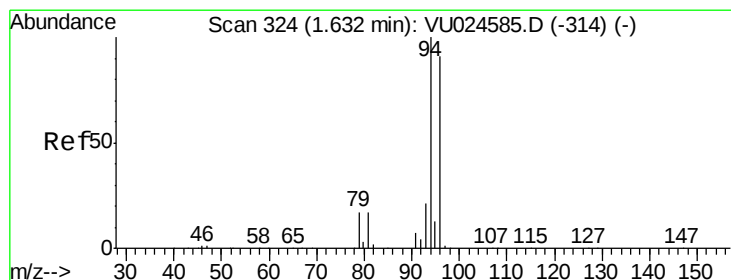
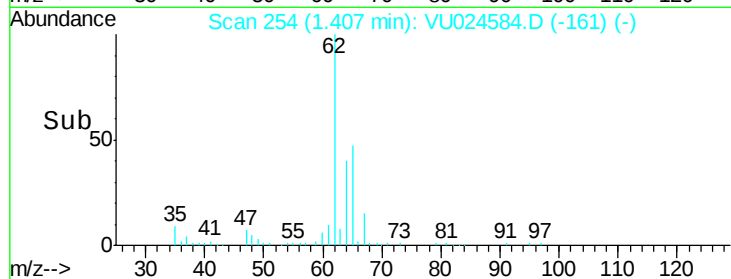
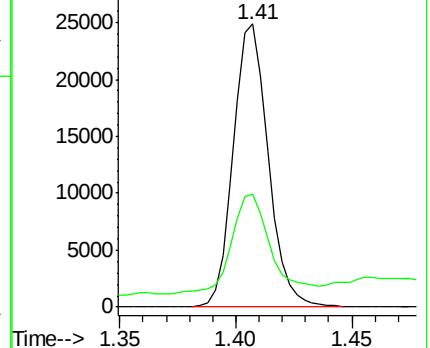
62 100

64 39.8 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 9.069 ug/L

RT: 1.63 min Scan# 324

Delta R.T. 0.00 min

Lab File: VU024584.D

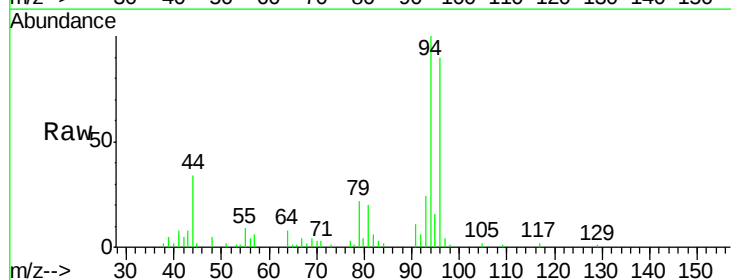
Acq: 15 Jun 2018 10:34

Tgt Ion: 94 Resp: 10746

Ion Ratio Lower Upper

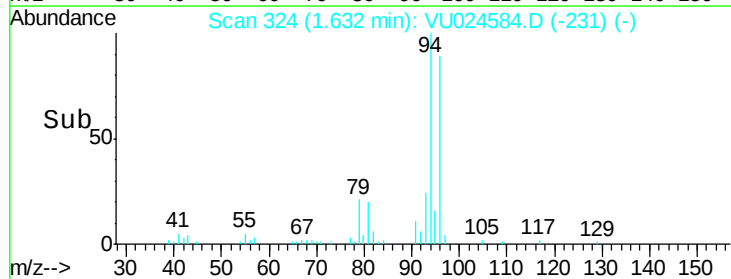
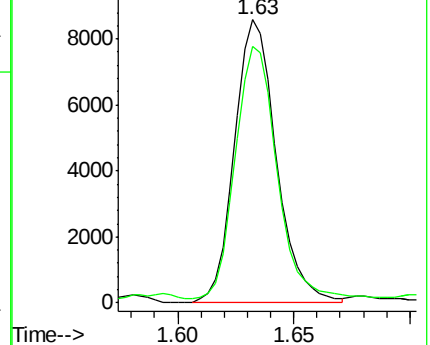
94 100

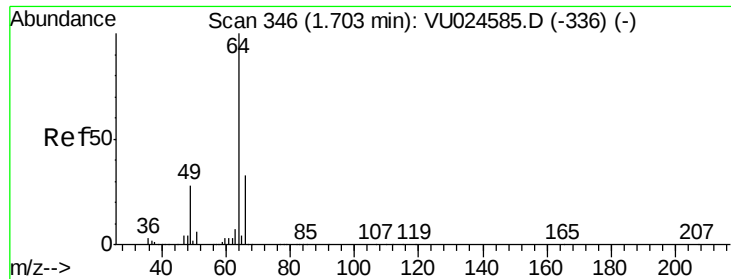
96 90.5 64.0 119.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 10.461 ug/L

RT: 1.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

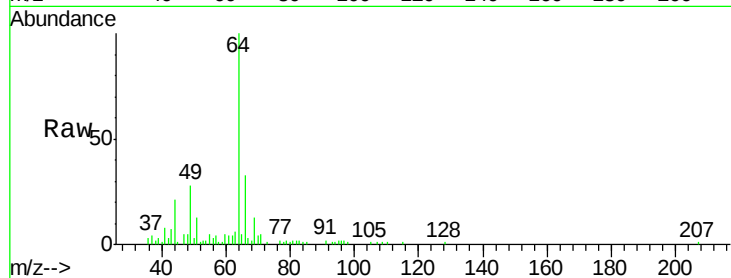
VSTD01041

Tgt Ion: 64 Resp: 15418

Ion Ratio Lower Upper

64 100

66 33.2 22.7 42.3



Abundance Ion 64.00 (63.70 to 64.70): VU024584.D (-222) (-)

Ion 66.00 (65.70 to 66.70): VU024584.D (-222) (-)

1.70

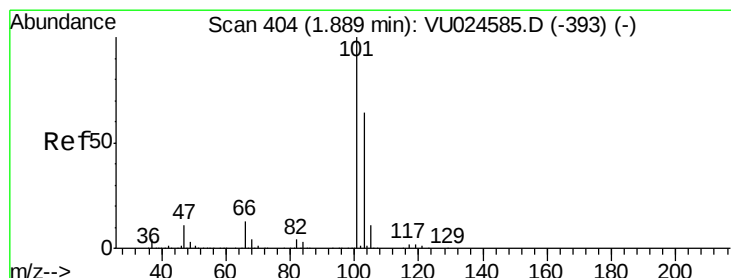
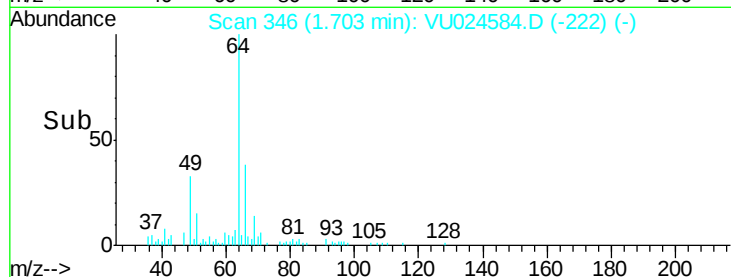
15000

10000

5000

0

Time--> 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 10.290 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.00 min

Lab File: VU024584.D

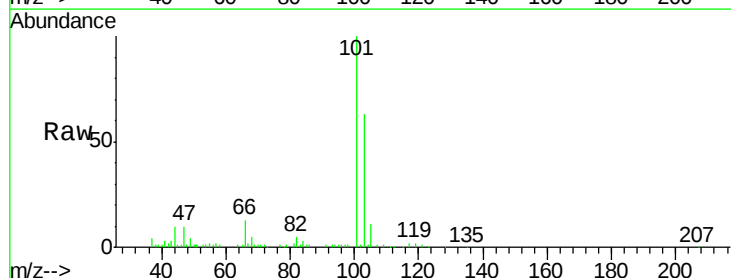
Acq: 15 Jun 2018 10:34

Tgt Ion: 101 Resp: 37917

Ion Ratio Lower Upper

101 100

103 65.6 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VU024584.D (-280) (-)

Ion 103.00 (102.70 to 103.70): VU024584.D (-280) (-)

1.89

30000

25000

20000

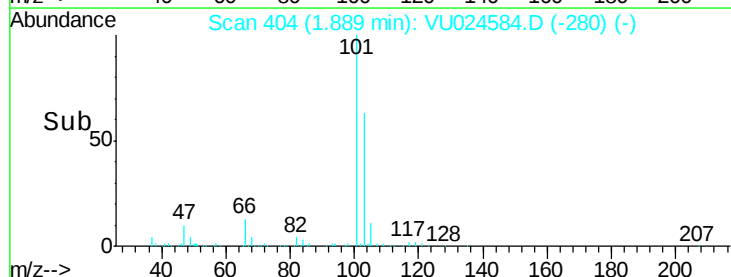
15000

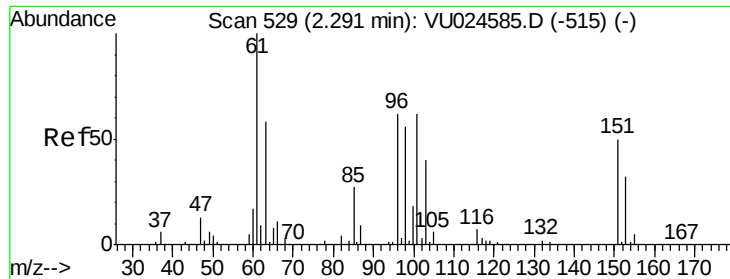
10000

5000

0

Time--> 1.85 1.90 1.95





#10

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

Concen: 10.125 ug/L

RT: 2.29 min Scan# 529

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

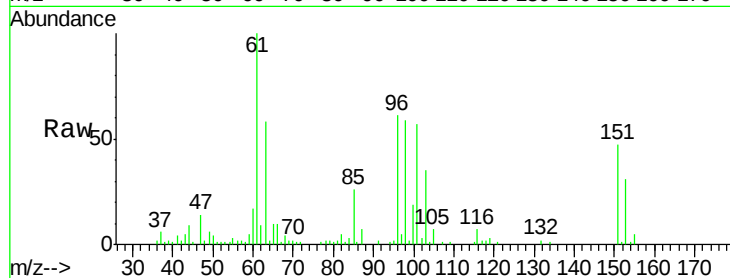
Tgt Ion:101 Resp: 21162

Ion Ratio Lower Upper

101 100

85 47.8 35.2 52.8

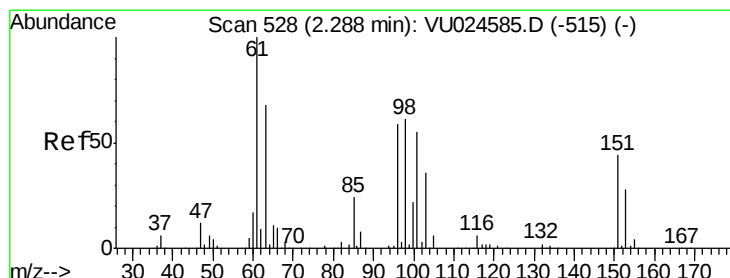
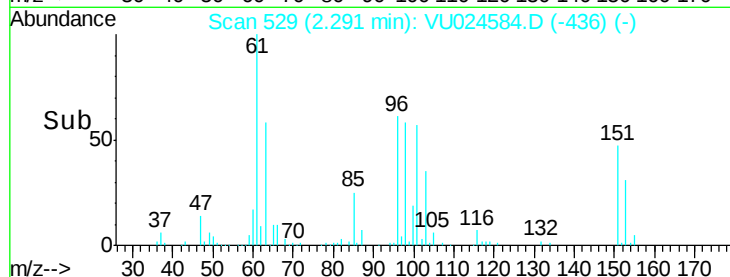
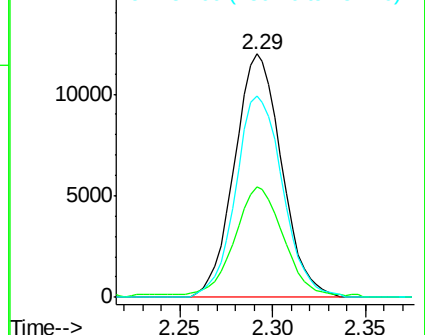
151 82.7 64.6 97.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 10.534 ug/L

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

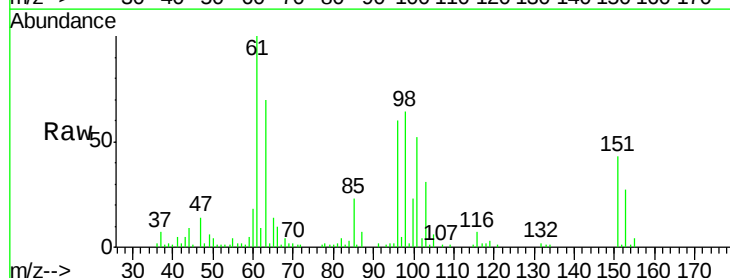
Tgt Ion: 96 Resp: 20170

Ion Ratio Lower Upper

96 100

61 166.1 117.9 218.9

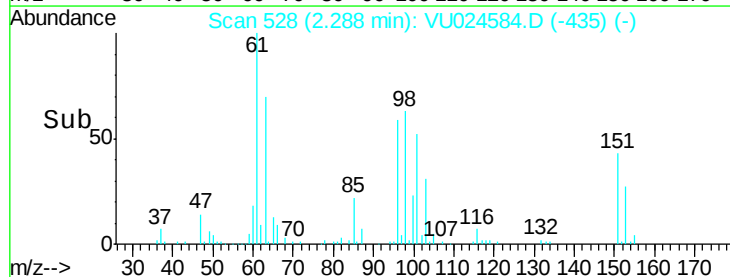
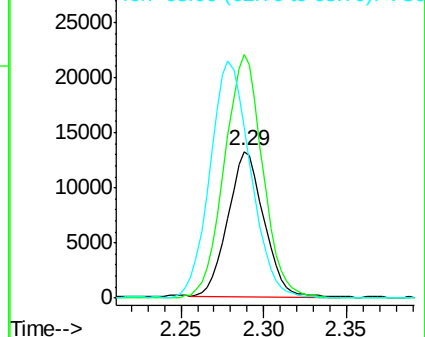
63 116.2 81.4 151.2

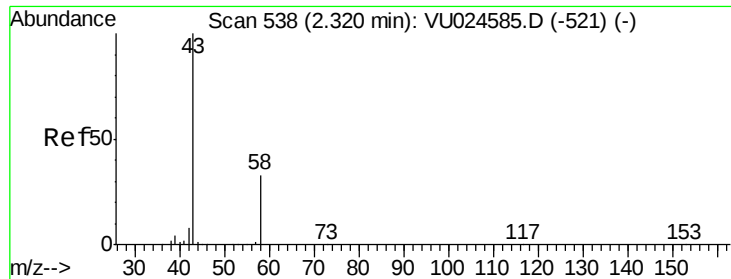


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 22.458 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

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ClientSampleId :

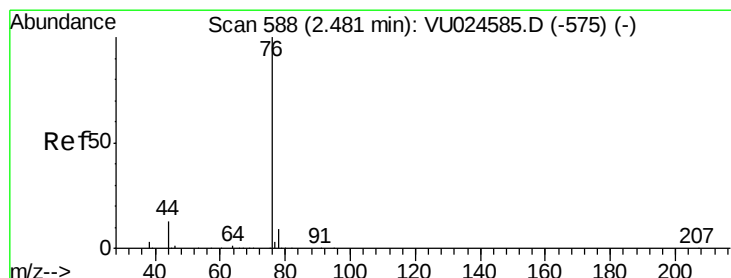
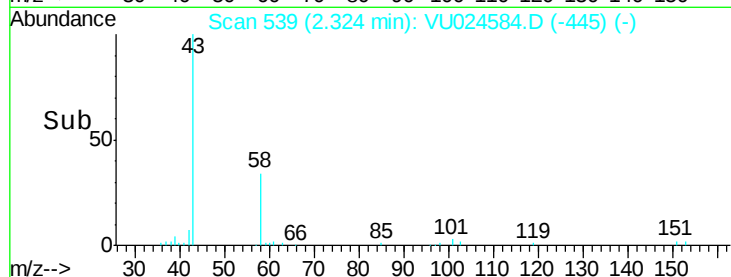
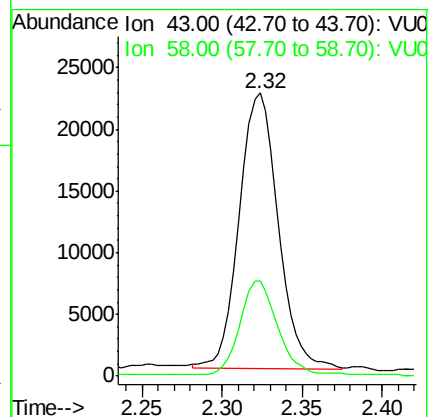
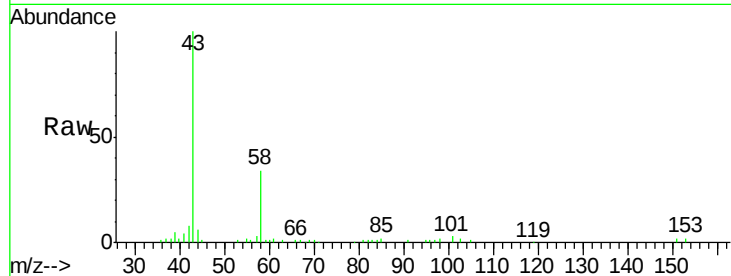
VSTD01041

Tgt Ion: 43 Resp: 37311

Ion Ratio Lower Upper

43 100

58 31.8 0.0 64.2



#14

Carbon disulfide

Concen: 10.095 ug/L

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU024584.D

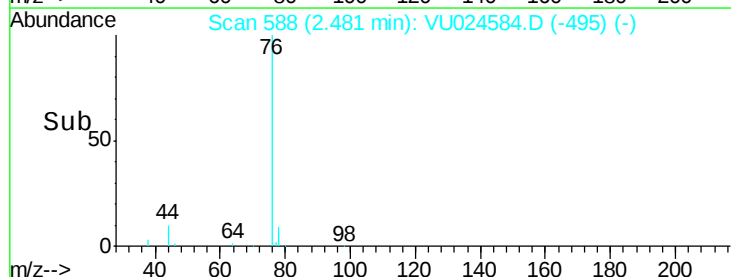
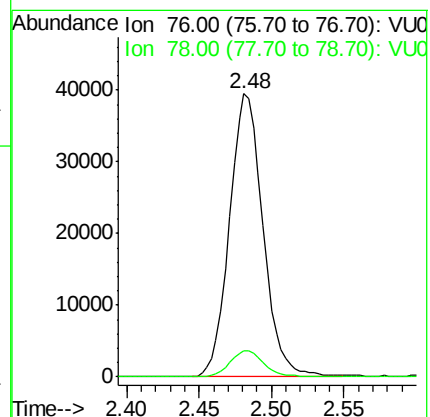
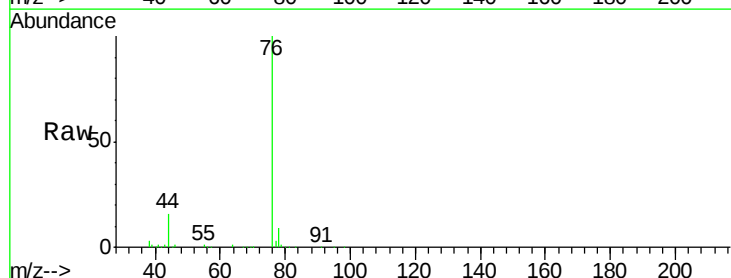
Acq: 15 Jun 2018 10:34

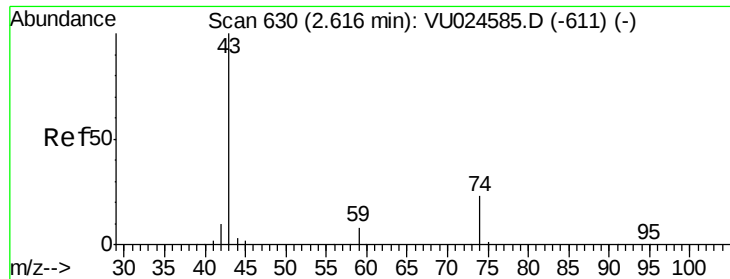
Tgt Ion: 76 Resp: 63339

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0

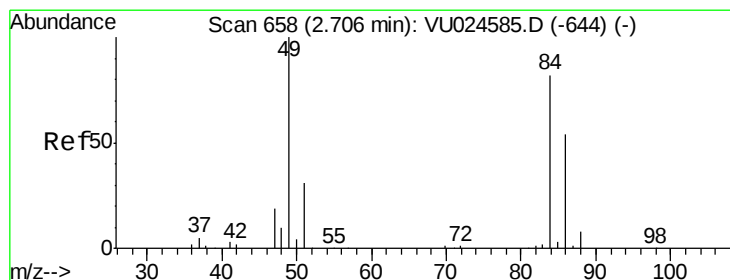
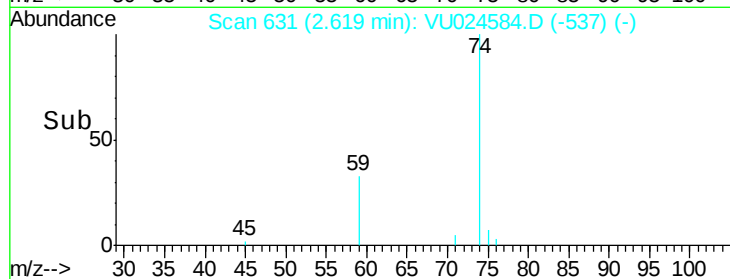
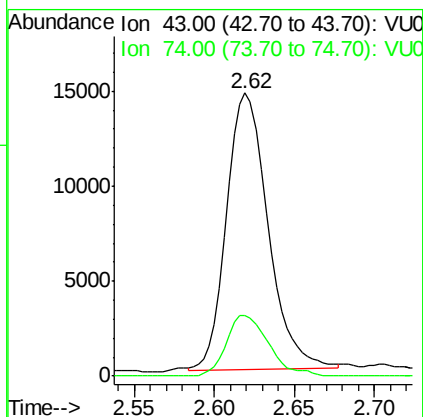
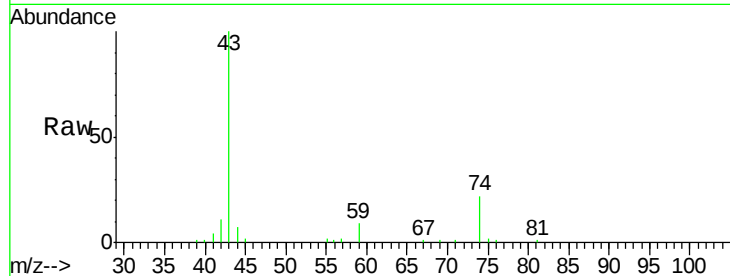




#15
Methyl Acetate
Concen: 10.129 ug/L
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

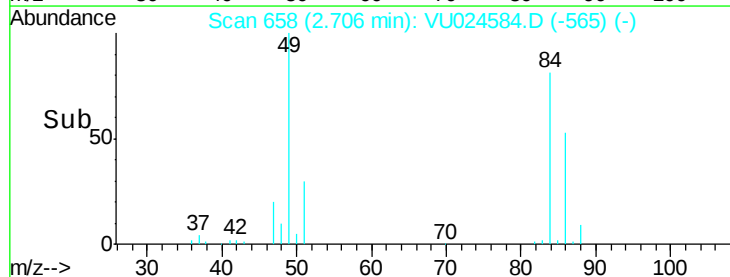
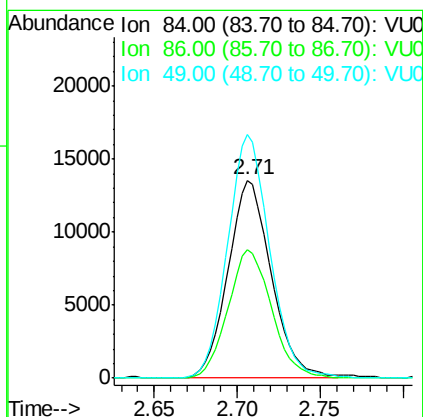
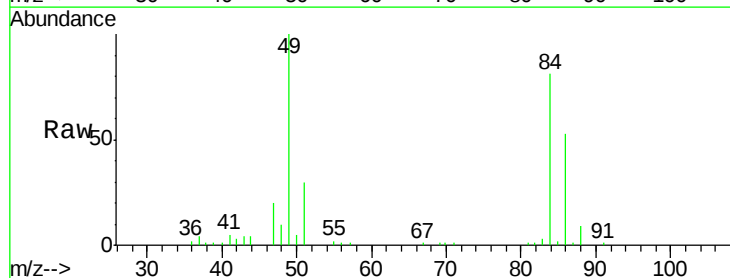
Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

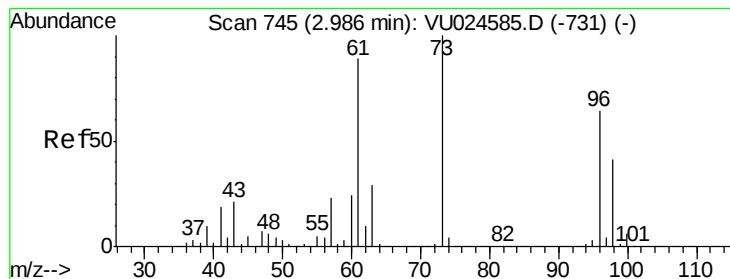
Tgt Ion: 43 Resp: 25789
Ion Ratio Lower Upper
43 100
74 22.0 18.4 27.6



#16
Methylene chloride
Concen: 10.477 ug/L
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

Tgt Ion: 84 Resp: 24669
Ion Ratio Lower Upper
84 100
86 64.8 46.1 85.7
49 122.9 85.5 158.9





#17

trans-1,2-Dichloroethene

Concen: 10.261 ug/L

RT: 2.99 min Scan# 746

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

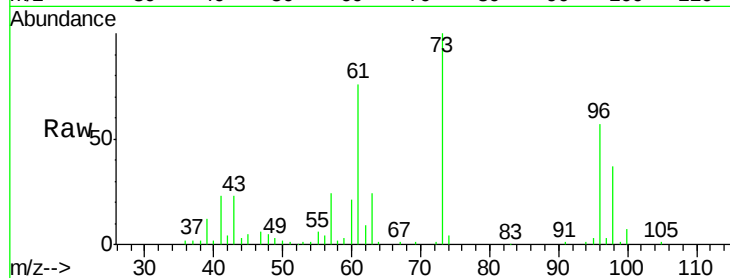
Tgt Ion: 96 Resp: 22168

Ion Ratio Lower Upper

96 100

61 134.5 97.4 180.8

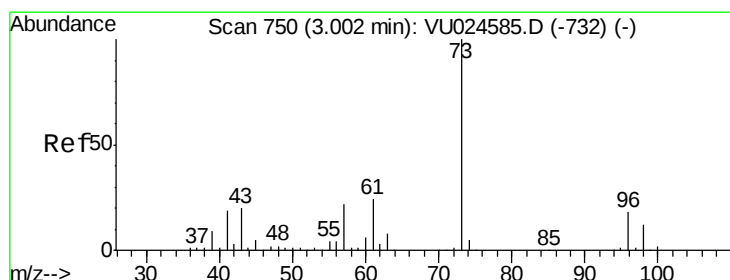
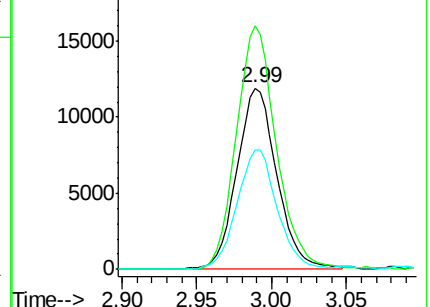
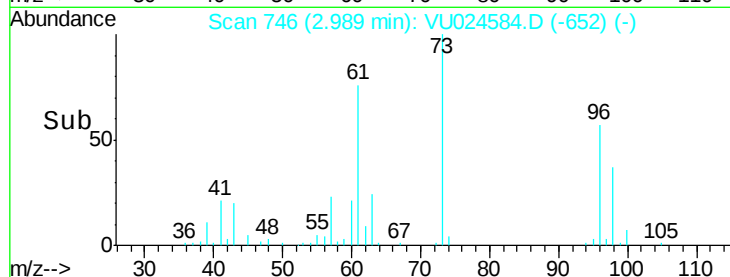
98 65.7 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 10.331 ug/L

RT: 3.00 min Scan# 750

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

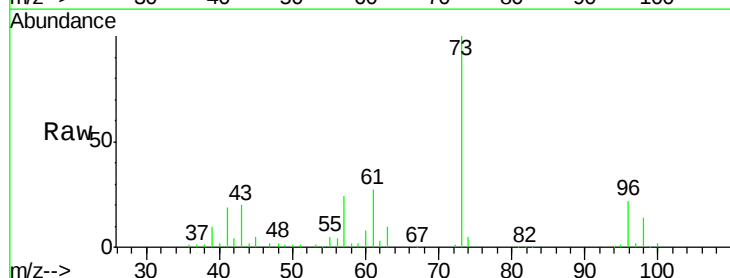
Tgt Ion: 73 Resp: 72571

Ion Ratio Lower Upper

73 100

43 20.4 16.4 24.6

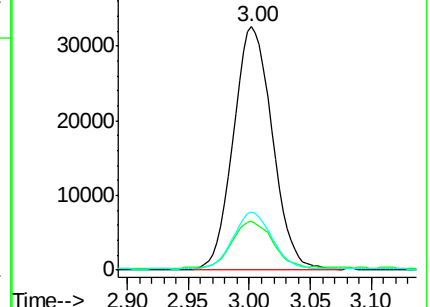
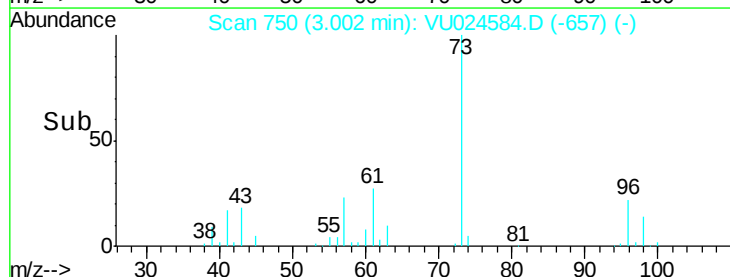
57 23.5 17.9 26.9

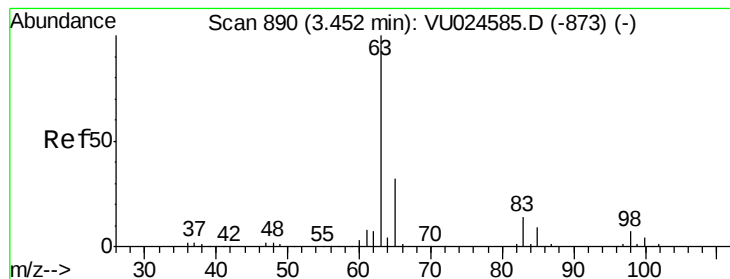


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 10.488 ug/L

RT: 3.45 min Scan# 890

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

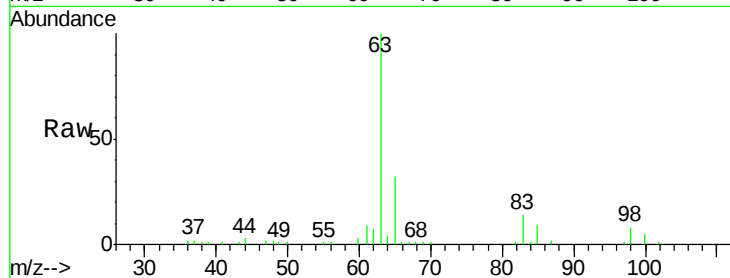
Tgt Ion: 63 Resp: 41709

Ion Ratio Lower Upper

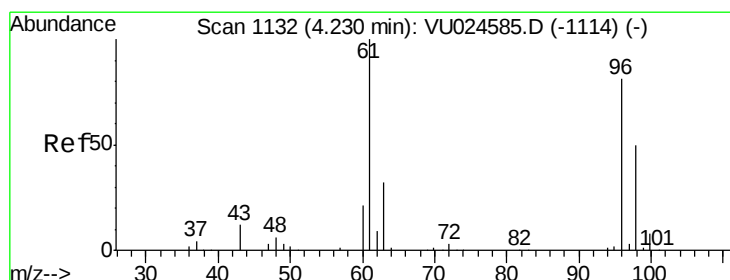
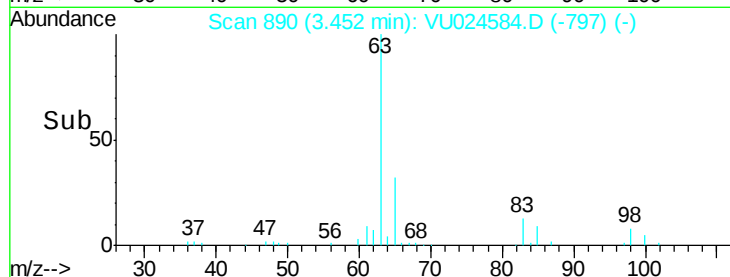
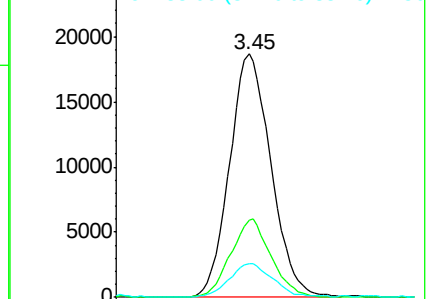
63 100

65 31.7 22.2 41.2

83 14.1 10.1 18.9



Abundance Ion 63.00 (62.70 to 63.70): VU0
Ion 65.00 (64.70 to 65.70): VU0
Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 10.360 ug/L

RT: 4.24 min Scan# 1134

Delta R.T. 0.01 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

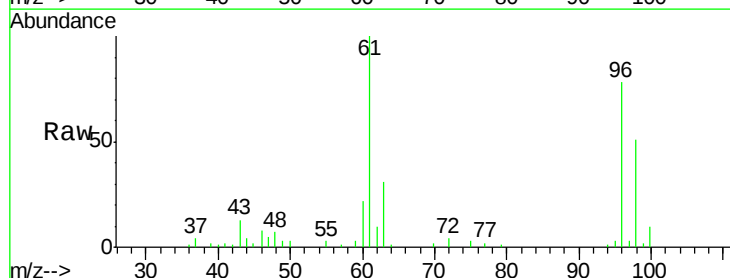
Tgt Ion: 96 Resp: 26093

Ion Ratio Lower Upper

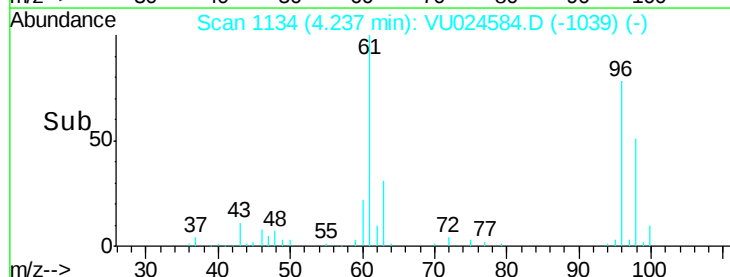
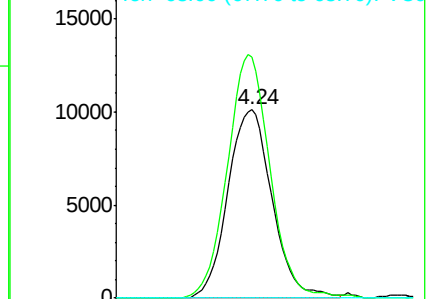
96 100

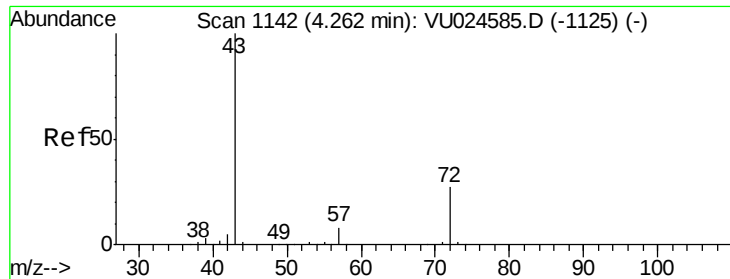
61 128.0 87.1 161.7

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 20.637 ug/L

RT: 4.27 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

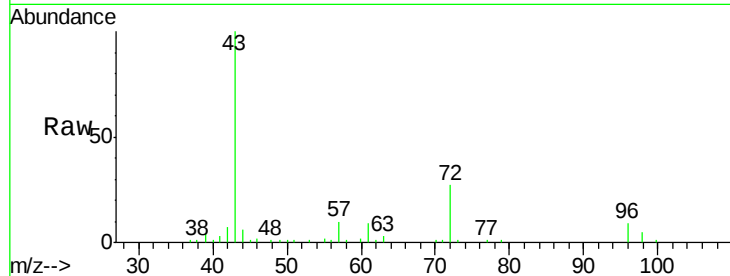
VSTD01041

Tgt Ion: 43 Resp: 43690

Ion Ratio Lower Upper

43 100

72 29.7 13.1 39.3



Abundance Ion 43.00 (42.70 to 43.70): VU024584.D (-1144) (-)

Ion 72.00 (71.70 to 72.70): VU024584.D (-1144) (-)

20000

15000

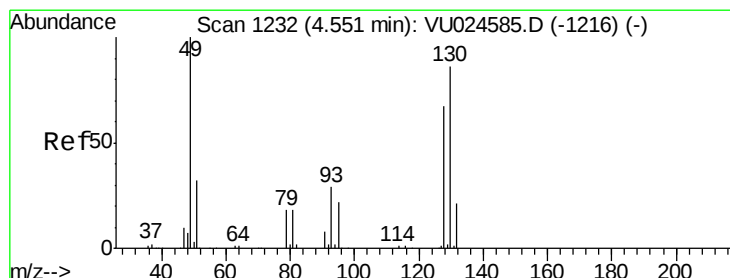
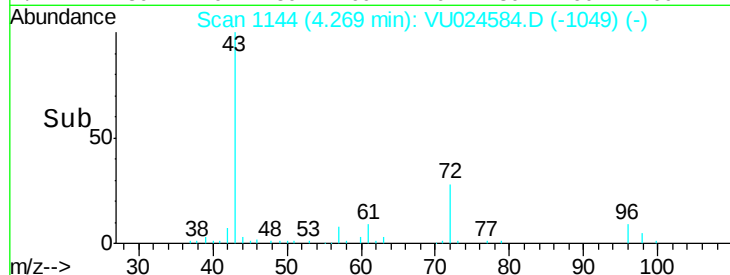
10000

5000

0

4.20 4.25 4.30 4.35

Time-->



#23

Bromochloromethane

Concen: 10.282 ug/L

RT: 4.55 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Tgt Ion: 128 Resp: 12990

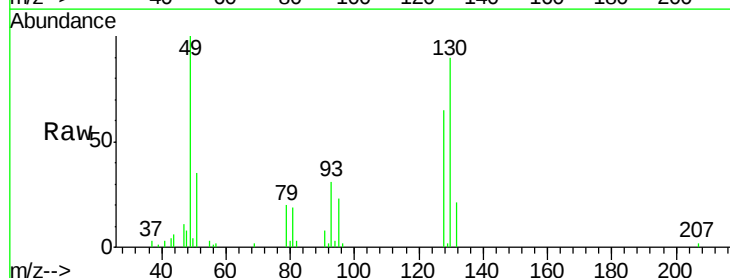
Ion Ratio Lower Upper

128 100

49 154.7 104.7 194.5

130 139.4 90.2 167.6

51 54.3 38.4 57.6



Abundance Ion 128.00 (127.70 to 128.70): VU024584.D (-1233) (-)

Ion 49.00 (48.70 to 49.70): VU024584.D (-1233) (-)

Ion 130.00 (129.70 to 130.70): VU024584.D (-1233) (-)

Ion 51.00 (50.70 to 51.70): VU024584.D (-1233) (-)

12000

10000

8000

6000

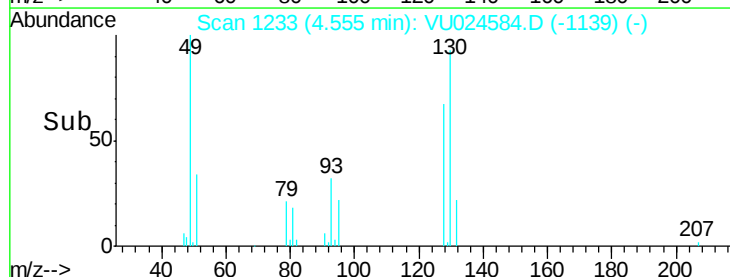
4000

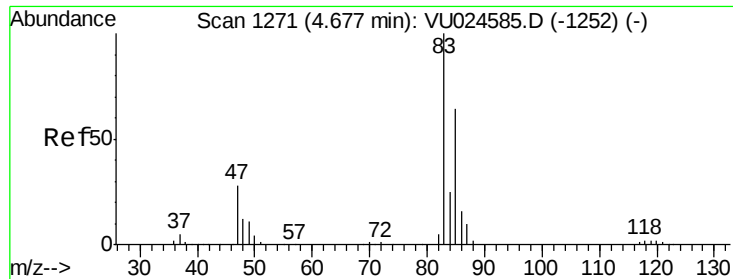
2000

0

4.50 4.55 4.60 4.65

Time-->

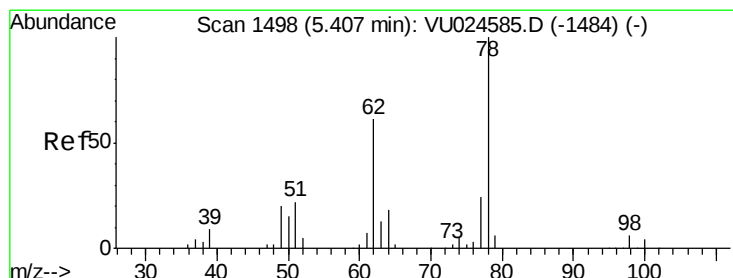
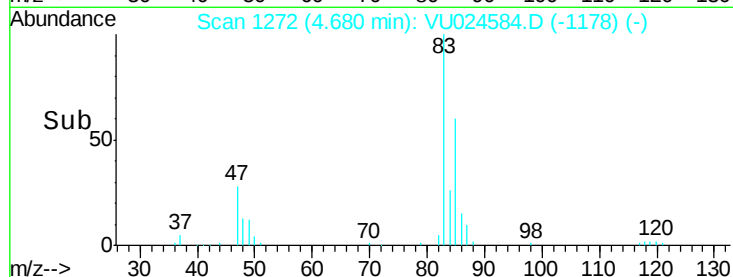
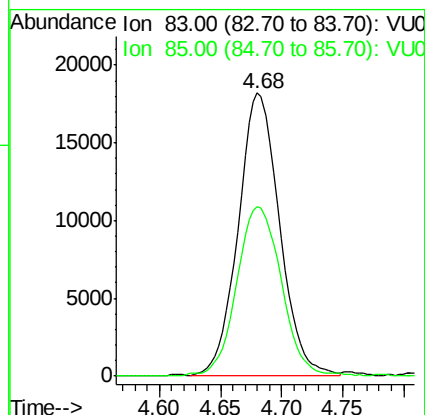
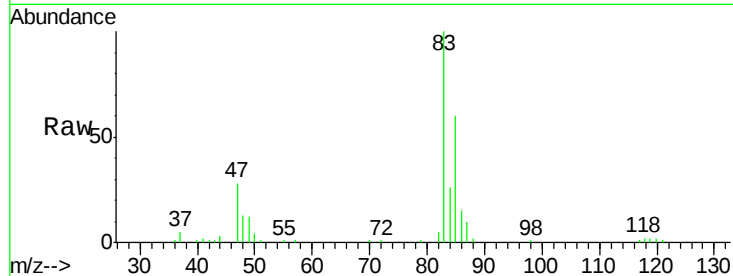




#25
Chloroform
Concen: 10.453 ug/L
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

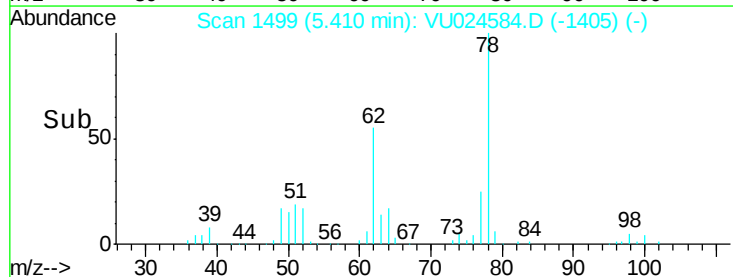
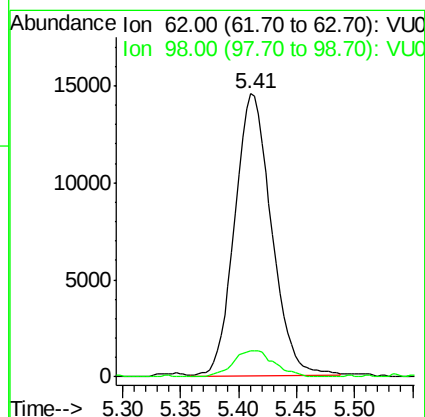
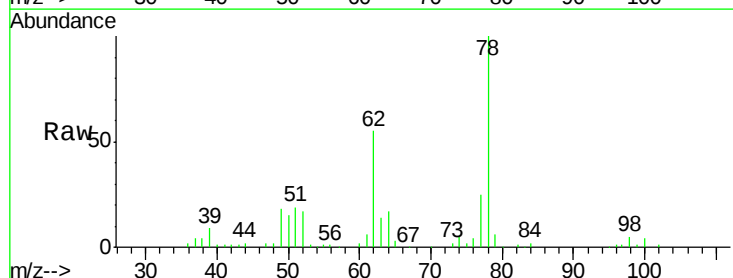
Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

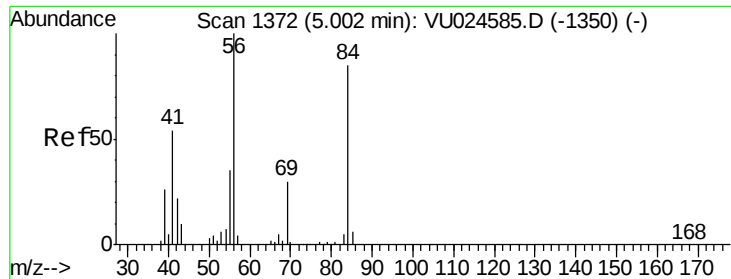
Tgt Ion: 83 Resp: 42882
Ion Ratio Lower Upper
83 100
85 60.0 44.4 82.5



#27
1,2-Dichloroethane
Concen: 10.136 ug/L
RT: 5.41 min Scan# 1499
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

Tgt Ion: 62 Resp: 32048
Ion Ratio Lower Upper
62 100
98 9.0 7.4 11.2

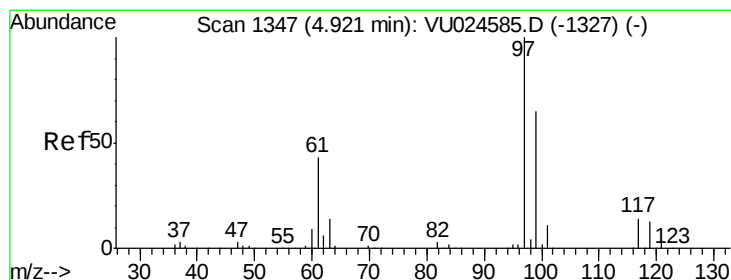
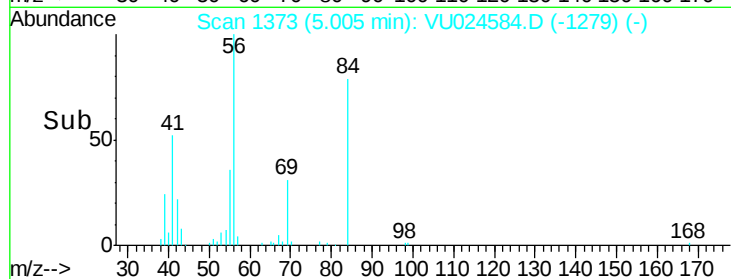
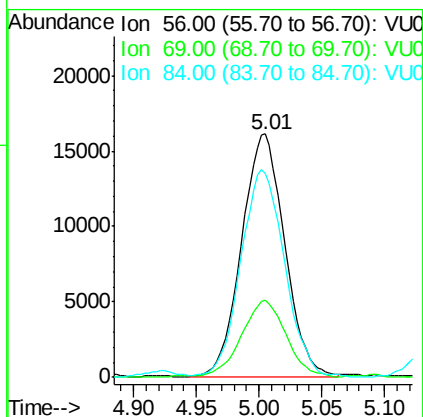
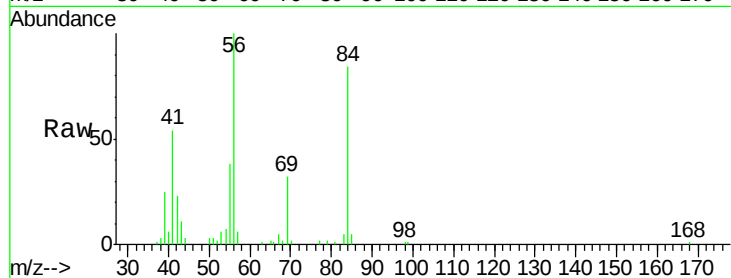




#29
Cyclohexane
Concen: 10.430 ug/L
RT: 5.01 min Scan# 1373
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

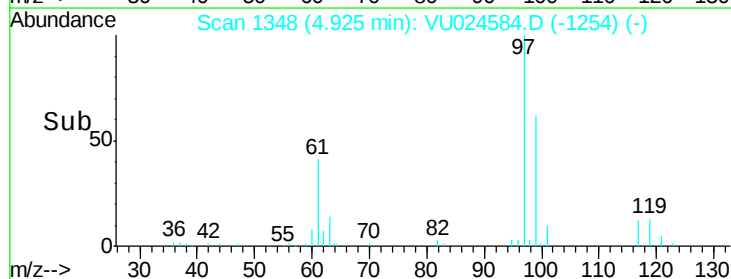
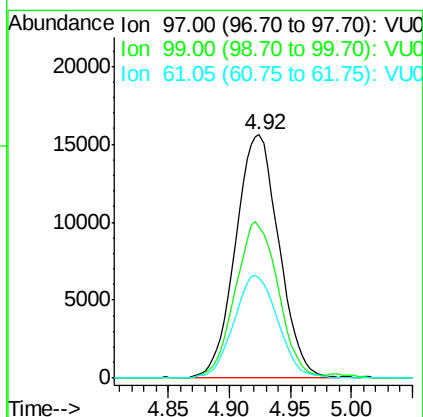
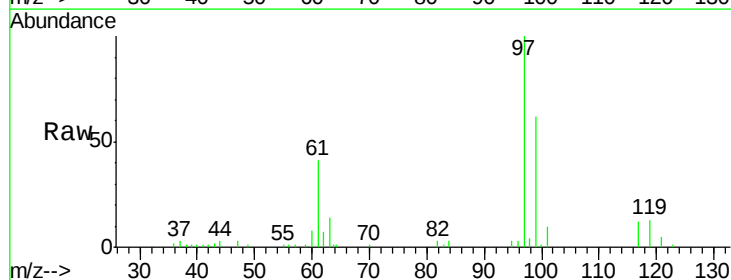
Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

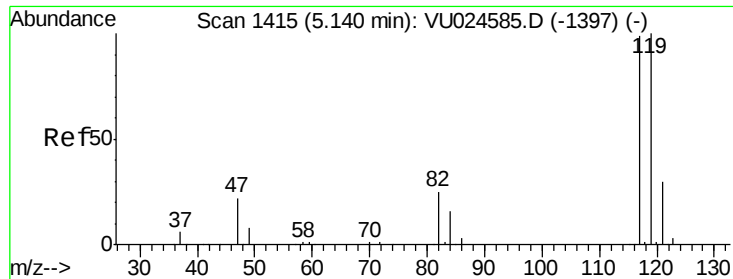
Tgt Ion: 56 Resp: 38680
Ion Ratio Lower Upper
56 100
69 32.8 24.7 37.1
84 84.6 68.8 103.2



#30
1,1,1-Trichloroethane
Concen: 10.625 ug/L
RT: 4.92 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

Tgt Ion: 97 Resp: 38505
Ion Ratio Lower Upper
97 100
99 63.6 51.4 77.0
61 42.5 33.8 50.8





#31

Carbon tetrachloride

Concen: 10.394 ug/L

RT: 5.14 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

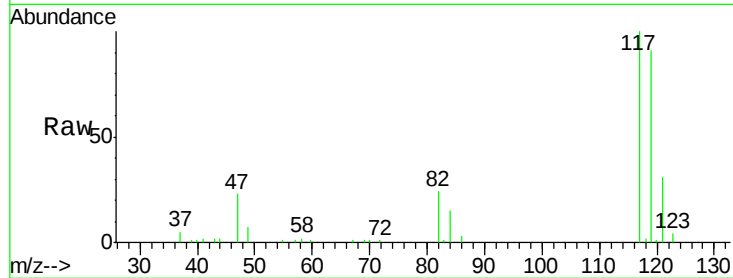
VSTD01041

Tgt Ion:117 Resp: 34477

Ion Ratio Lower Upper

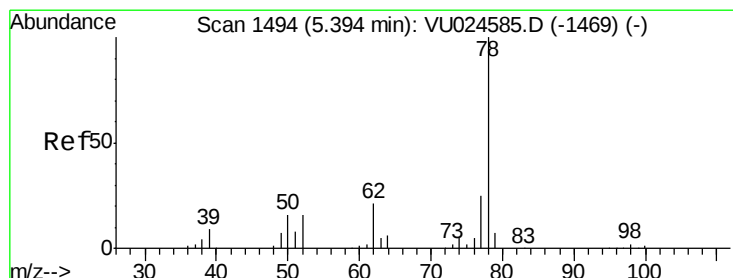
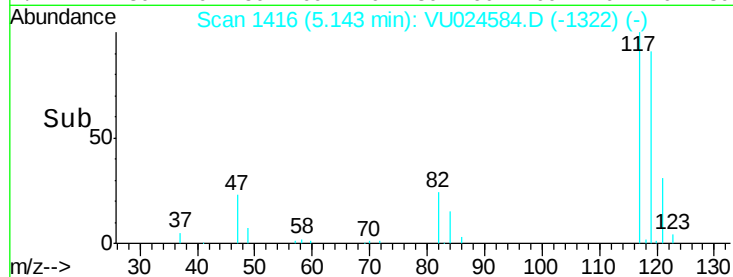
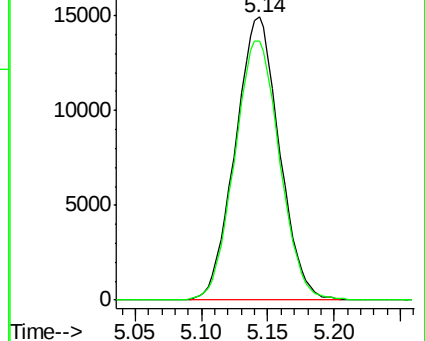
117 100

119 93.5 77.7 116.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 10.430 ug/L

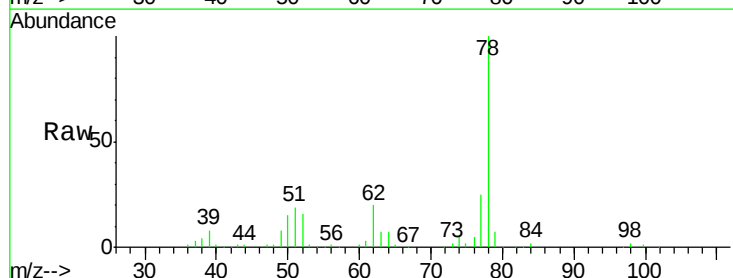
RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

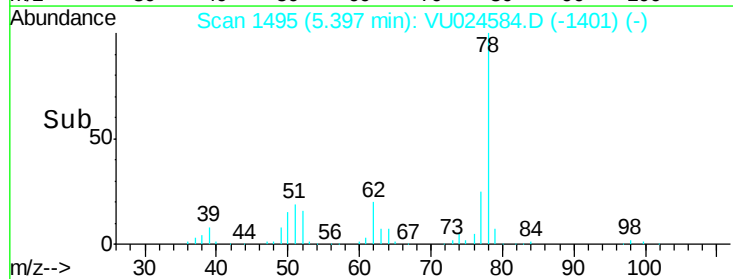
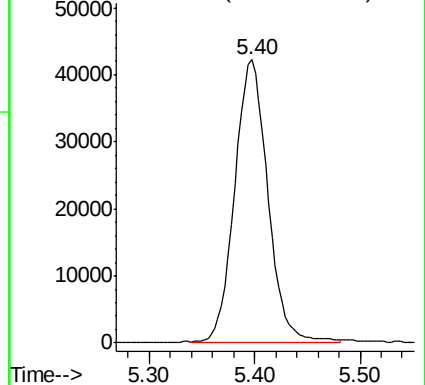
Lab File: VU024584.D

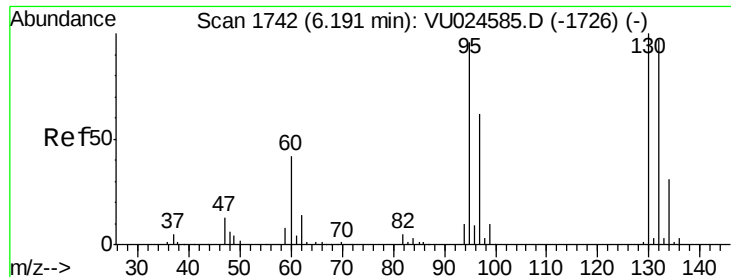
Acq: 15 Jun 2018 10:34

Tgt Ion: 78 Resp: 91687



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 10.204 ug/L

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

Tgt Ion: 95 Resp: 24792

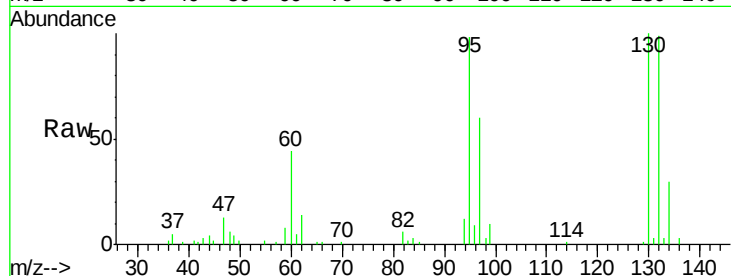
Ion Ratio Lower Upper

95 100

97 61.0 44.8 83.2

132 100.9 70.4 130.8

130 102.0 72.6 134.8

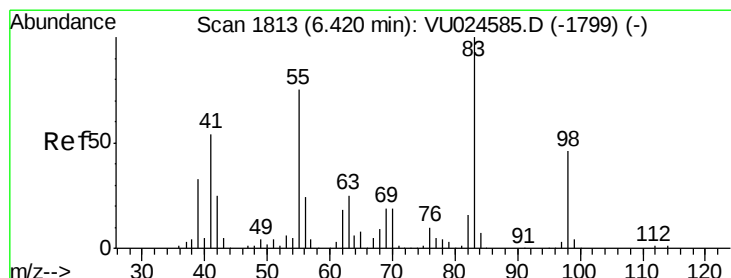
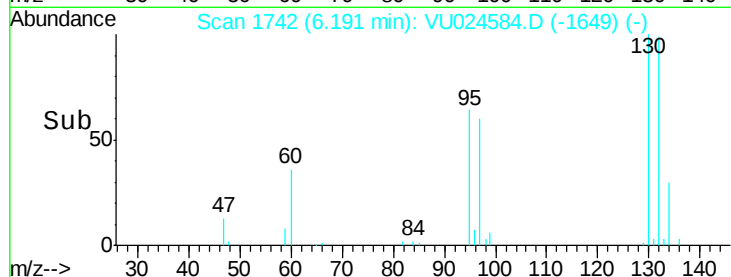
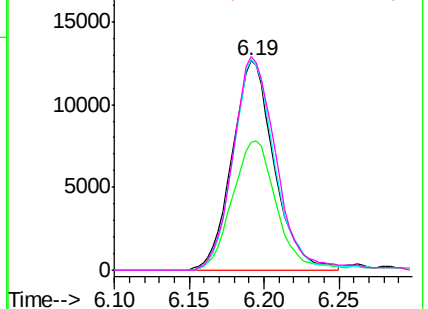


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 10.328 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

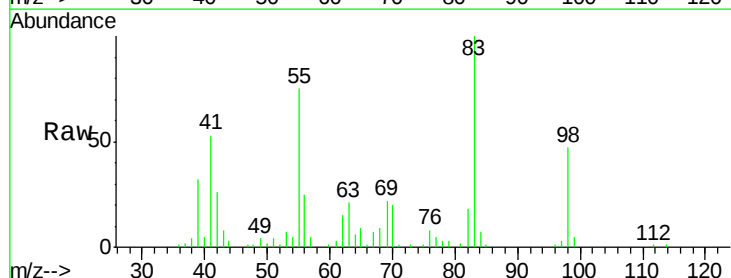
Tgt Ion: 83 Resp: 40339

Ion Ratio Lower Upper

83 100

55 75.2 59.4 89.0

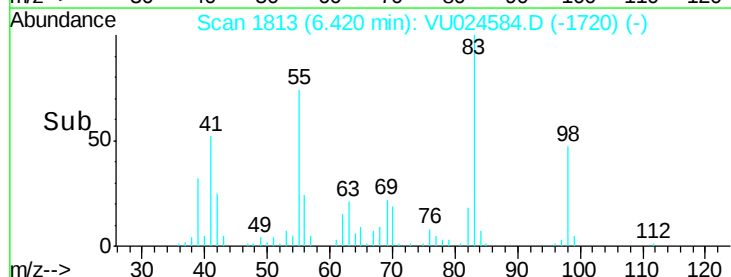
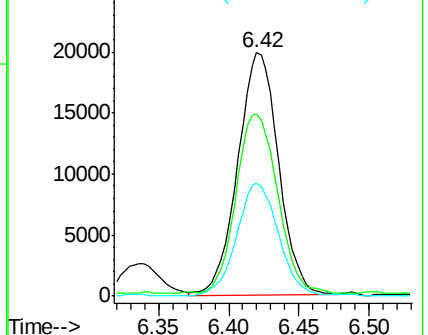
98 47.4 37.6 56.4

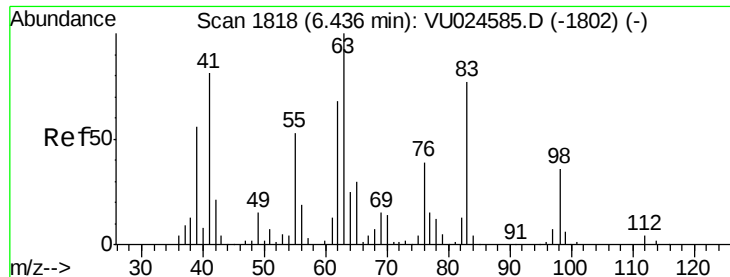


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

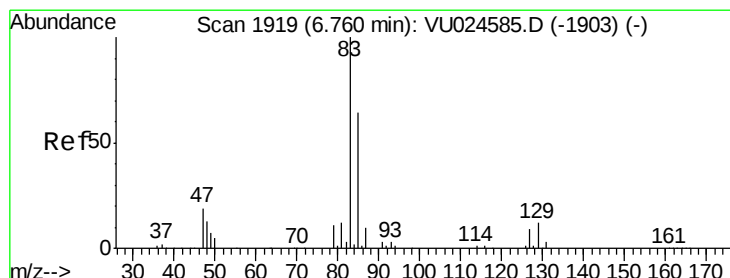
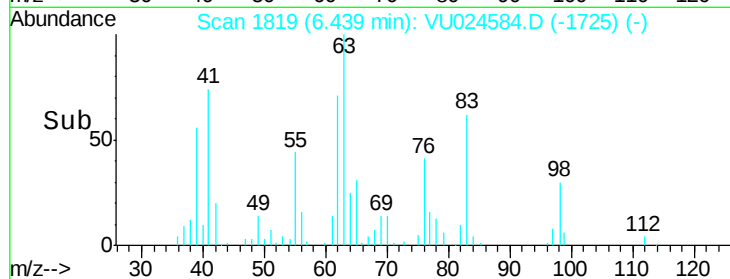
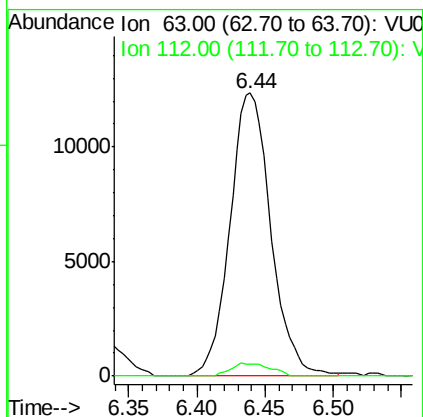
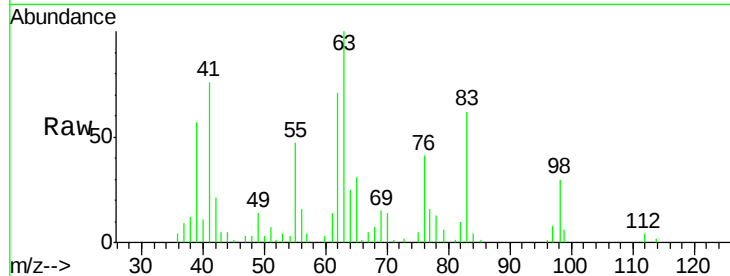




#37
 1,2-Dichloropropane
 Concen: 10.529 ug/L
 RT: 6.44 min Scan# 1819
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

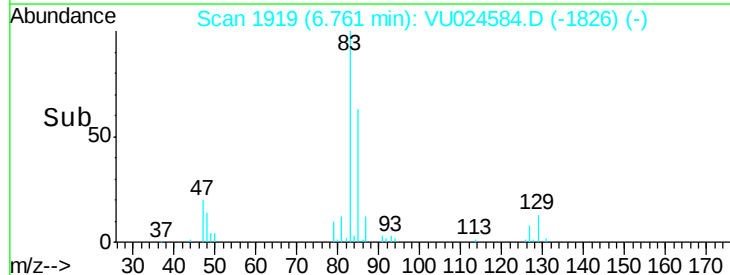
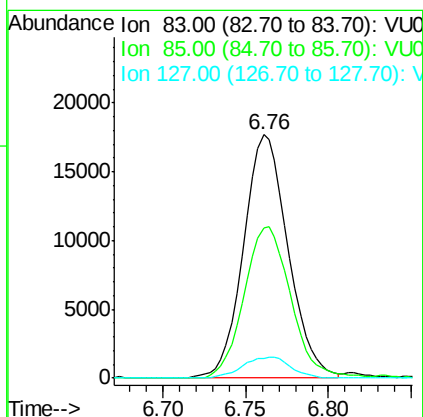
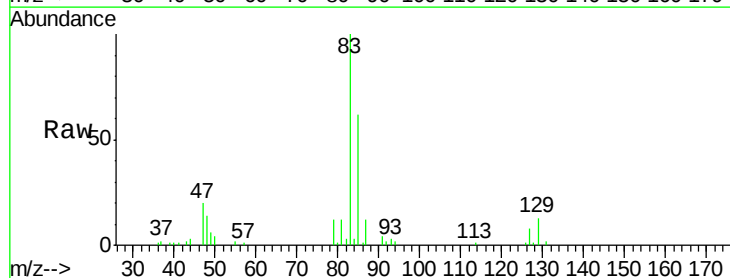
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01041

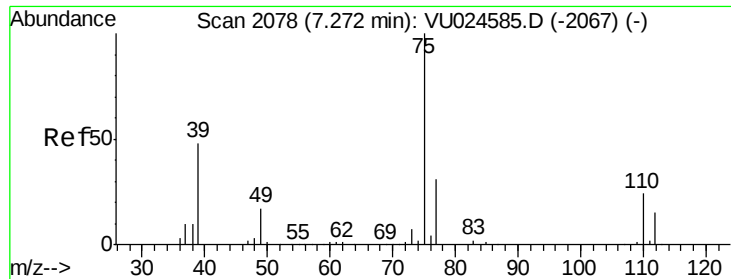
Tgt Ion: 63 Resp: 25730
 Ion Ratio Lower Upper
 63 100
 112 2.3 3.1 4.7#



#38
 Bromodichloromethane
 Concen: 10.283 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Tgt Ion: 83 Resp: 33121
 Ion Ratio Lower Upper
 83 100
 85 61.8 44.9 83.3
 127 8.3 7.6 11.4

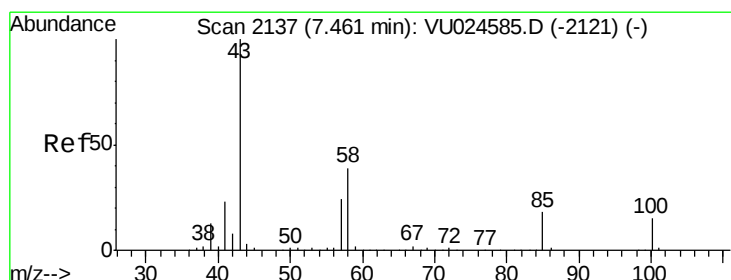
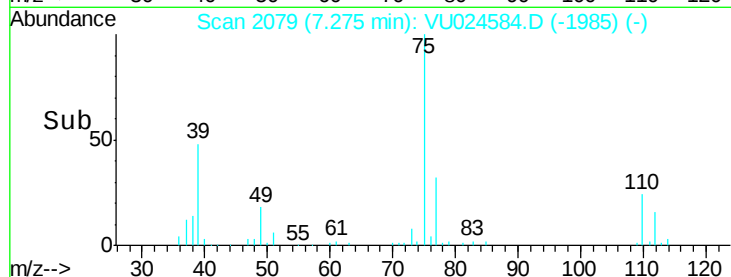
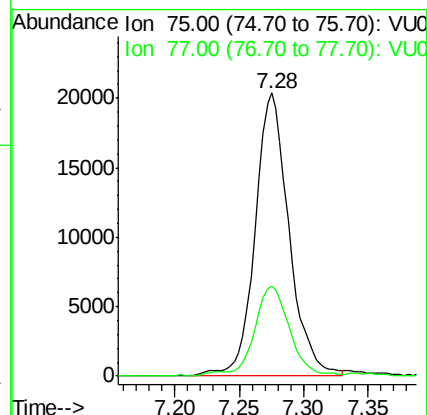
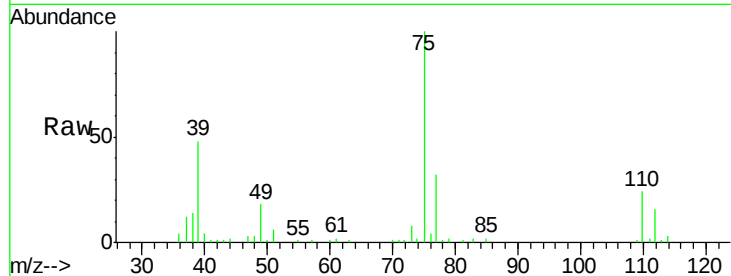




#39
 cis-1,3-Dichloropropene
 Concen: 9.796 ug/L
 RT: 7.28 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

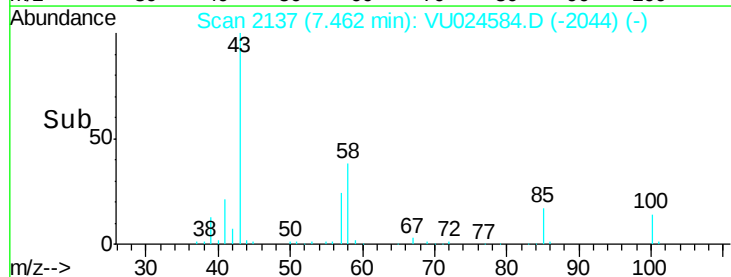
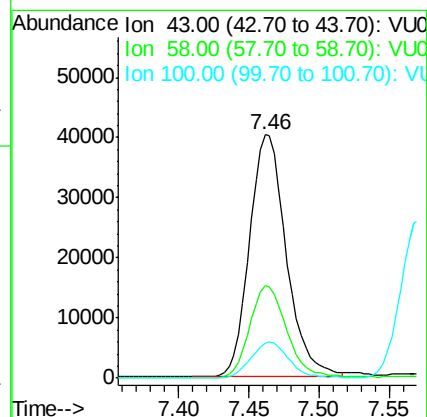
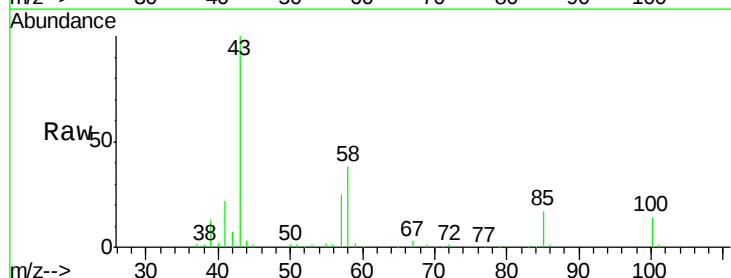
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01041

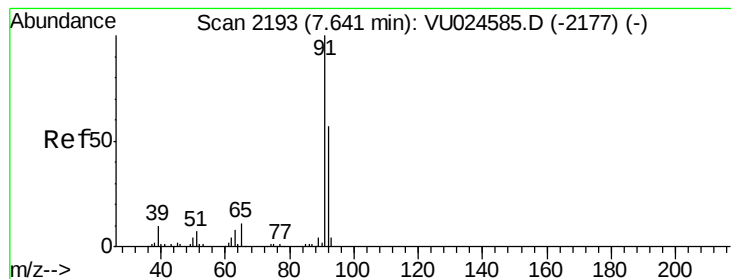
Tgt Ion: 75 Resp: 37523
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 20.379 ug/L
 RT: 7.46 min Scan# 2137
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Tgt Ion: 43 Resp: 73943
 Ion Ratio Lower Upper
 43 100
 58 38.6 31.0 46.6
 100 15.0 12.0 18.0





#42

Toluene

Concen: 10.331 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

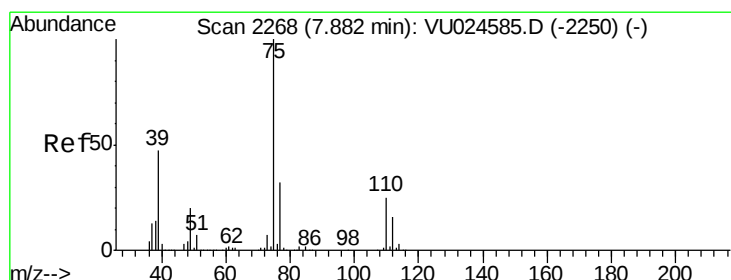
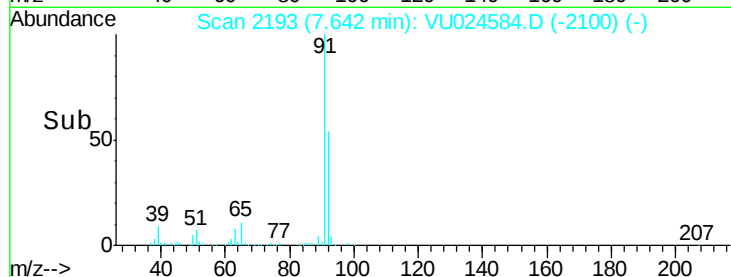
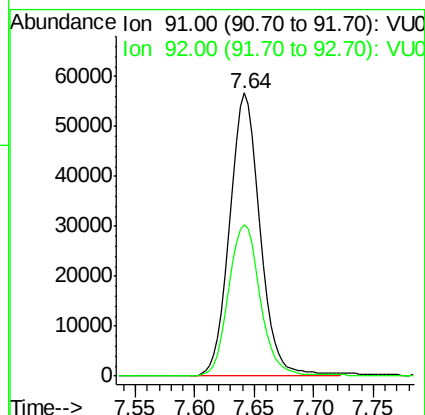
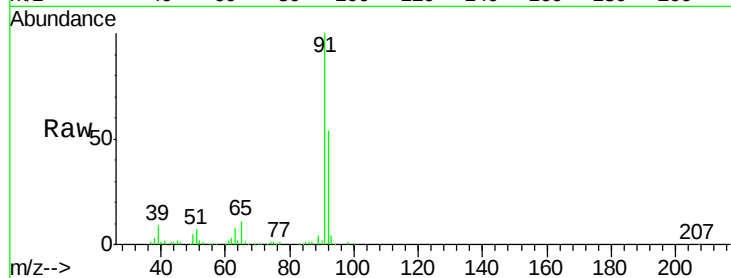
VSTD01041

Tgt Ion: 91 Resp: 100920

Ion Ratio Lower Upper

91 100

92 53.6 39.8 73.8



#44

trans-1,3-Dichloropropene

Concen: 9.902 ug/L

RT: 7.89 min Scan# 2269

Delta R.T. 0.00 min

Lab File: VU024584.D

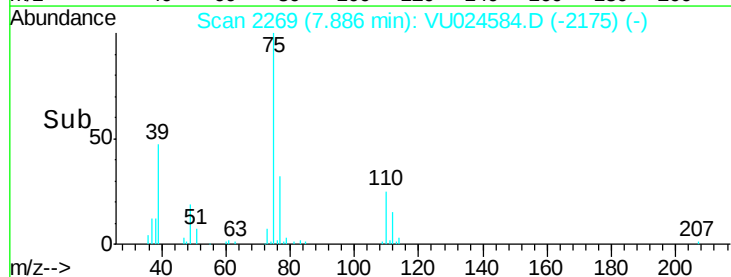
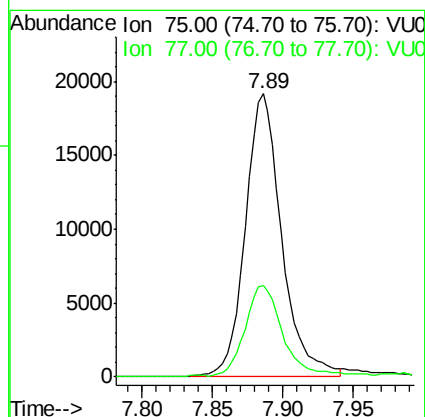
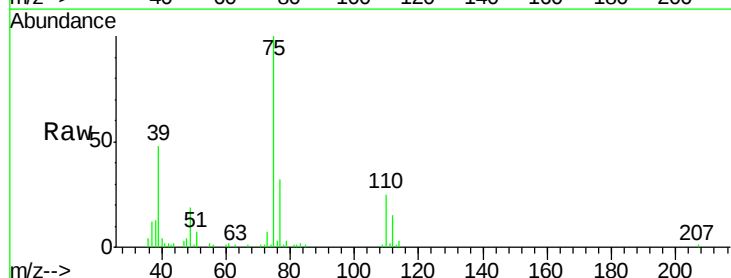
Acq: 15 Jun 2018 10:34

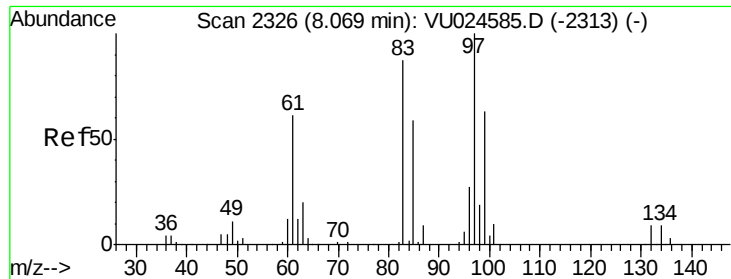
Tgt Ion: 75 Resp: 34688

Ion Ratio Lower Upper

75 100

77 32.1 22.4 41.6

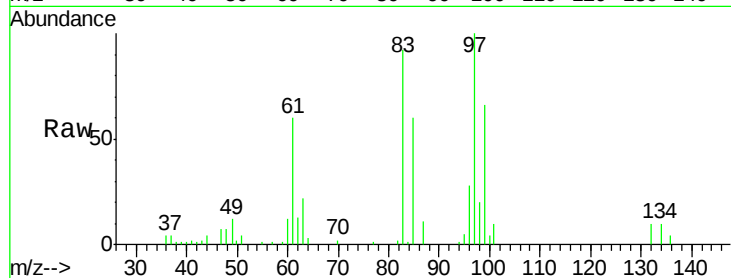




#45
 1,1,2-Trichloroethane
 Concen: 10.052 ug/L
 RT: 8.07 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01041

Tgt Ion:	97	Resp:	23113
Ion	Ratio	Lower	Upper
97	100		
99	66.3	44.0	81.8
83	92.0	61.0	113.2
85	60.1	41.3	76.7



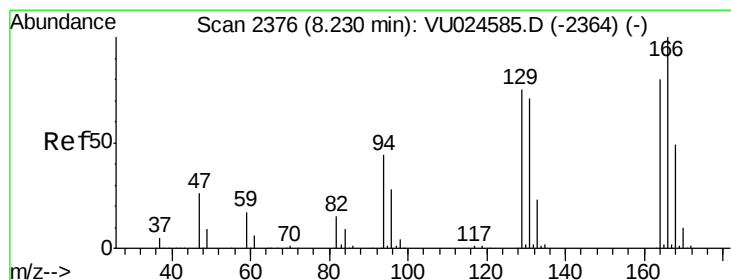
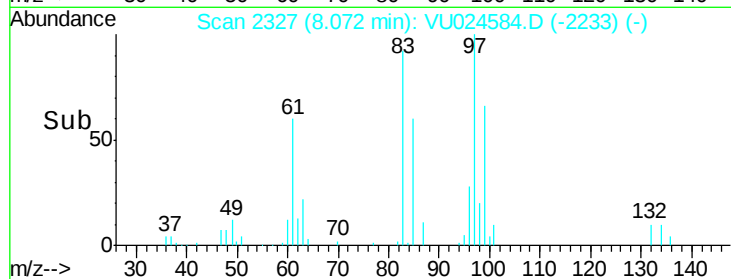
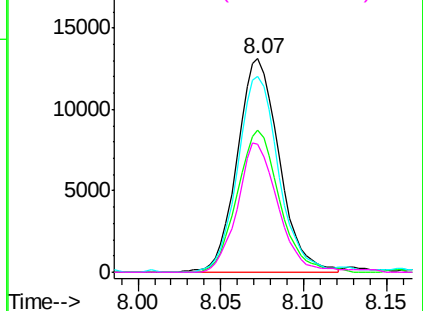
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

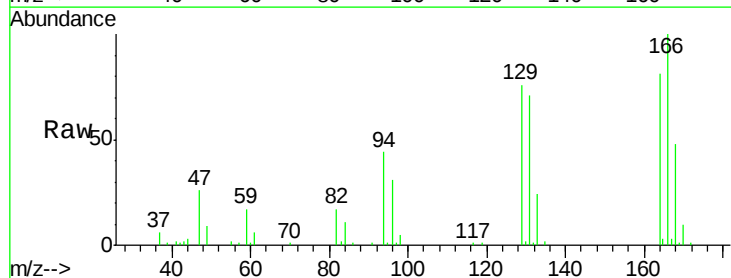
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 10.398 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Tgt Ion:	164	Resp:	21267
Ion	Ratio	Lower	Upper
164	100		
129	93.0	65.7	121.9
131	87.0	62.0	115.2
166	122.9	87.8	163.0



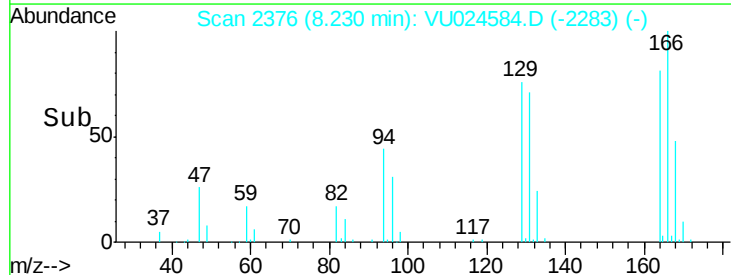
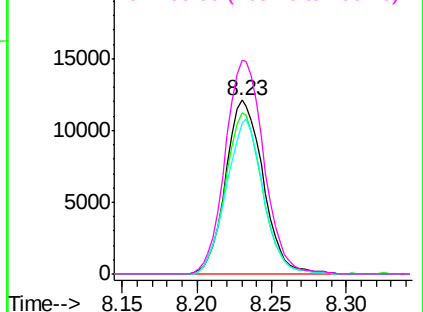
Abundance

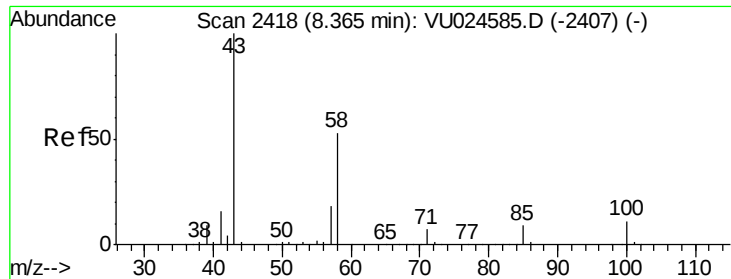
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

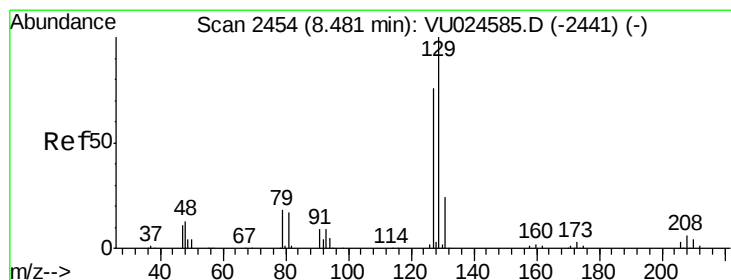
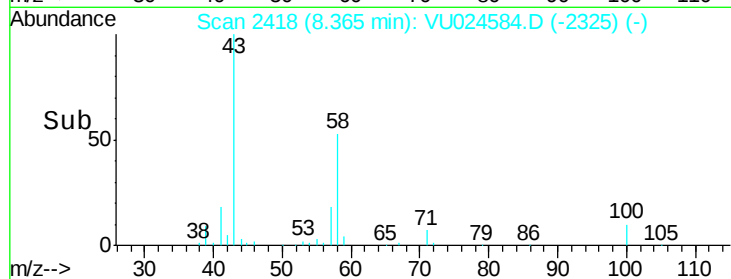
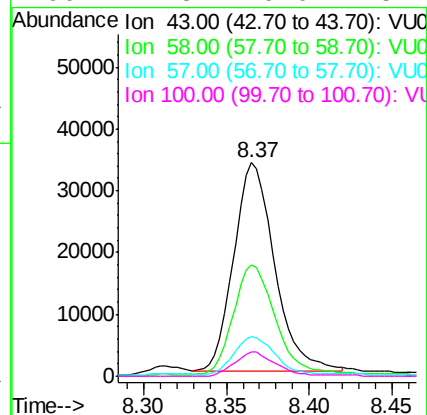
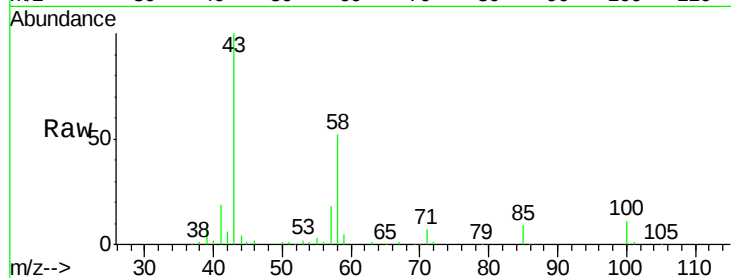




#48
2-Hexanone
Concen: 19.438 ug/L
RT: 8.37 min Scan# 2418
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

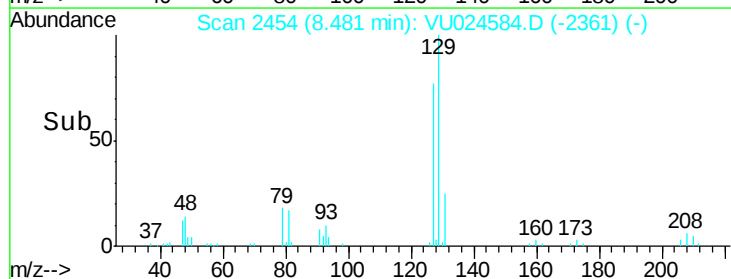
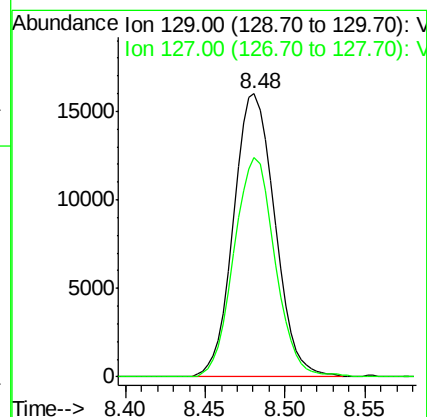
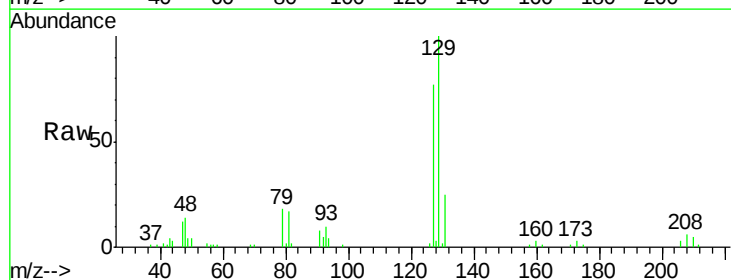
Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

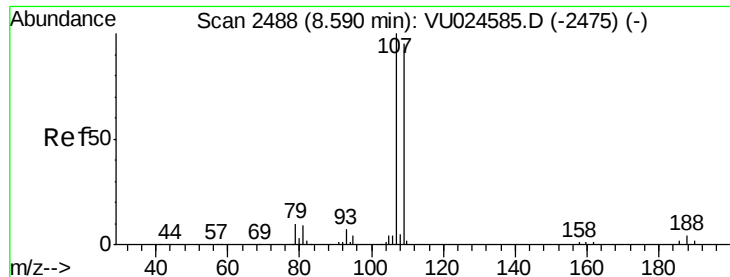
Tgt Ion:	43	Resp:	57308
Ion	Ratio	Lower	Upper
43	100		
58	56.1	42.6	63.8
57	18.3	14.7	22.1
100	11.8	9.0	13.4



#49
Dibromochloromethane
Concen: 10.015 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

Tgt Ion:	129	Resp:	28215
Ion	Ratio	Lower	Upper
129	100		
127	77.4	52.9	98.3

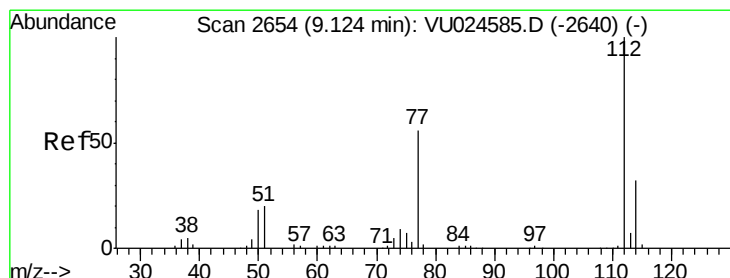
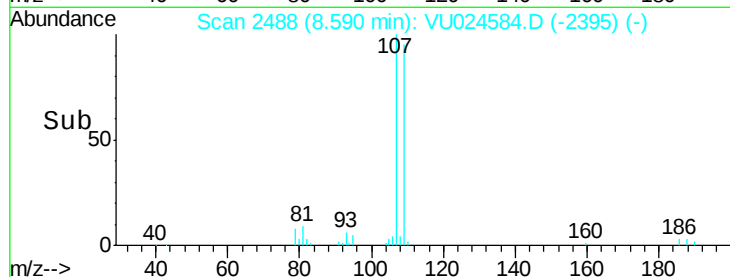
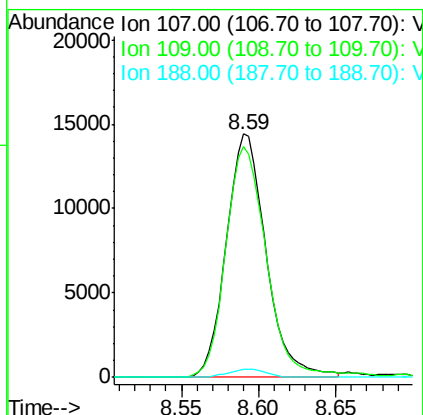
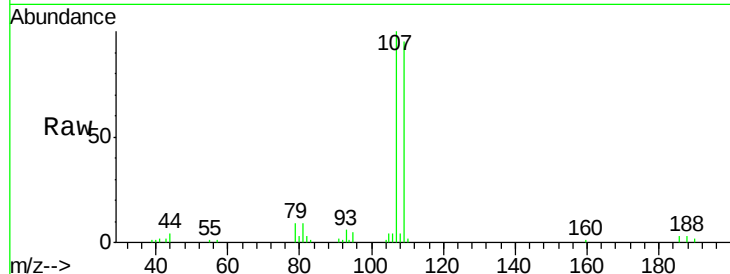




#50
1,2-Dibromoethane
Concen: 10.185 ug/L
RT: 8.59 min Scan# 2488
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

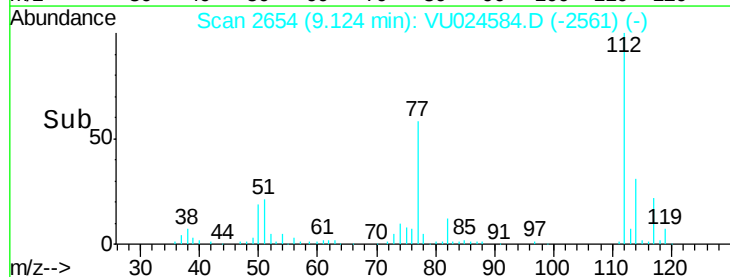
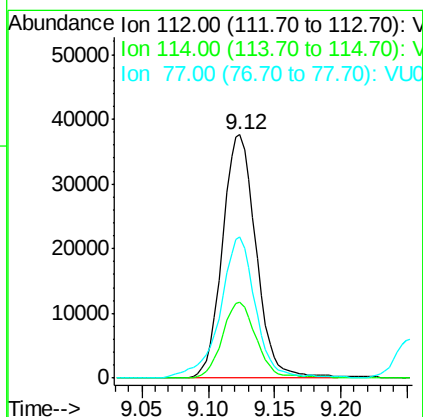
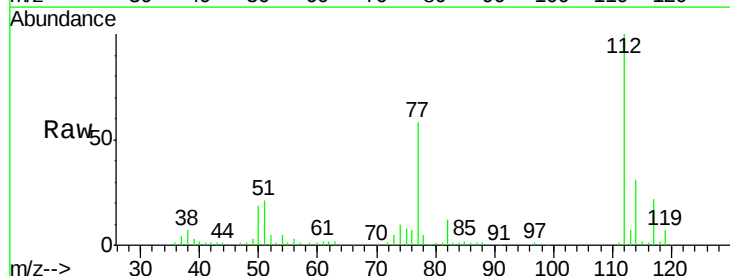
Instrument :
MSVOA_U
ClientSampleId :
VSTD01041

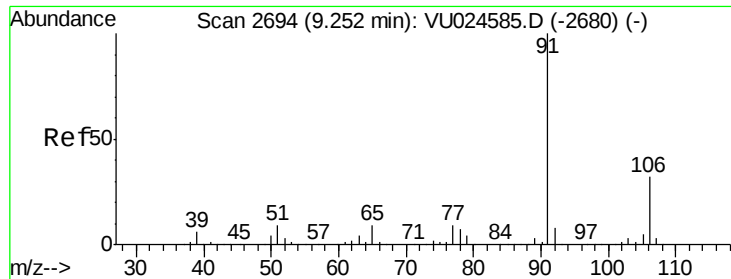
Tgt Ion:107 Resp: 25702
Ion Ratio Lower Upper
107 100
109 94.7 66.6 123.6
188 3.4 3.0 4.6



#51
Chlorobenzene
Concen: 10.146 ug/L
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024584.D
Acq: 15 Jun 2018 10:34

Tgt Ion:112 Resp: 66422
Ion Ratio Lower Upper
112 100
114 31.4 22.7 42.1
77 57.8 45.0 67.6





#52

Ethylbenzene

Concen: 10.256 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

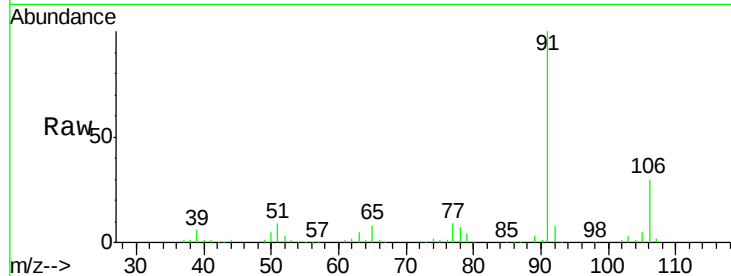
VSTD01041

Tgt Ion: 91 Resp: 114865

Ion Ratio Lower Upper

91 100

106 30.4 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VU024585.D (-2680) (-)

Ion 106.00 (105.70 to 106.70): VU024585.D (-2680) (-)

9.25

60000

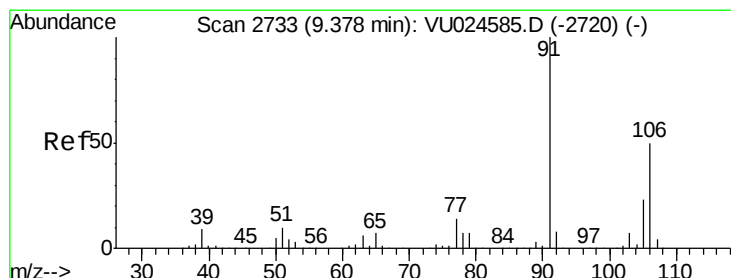
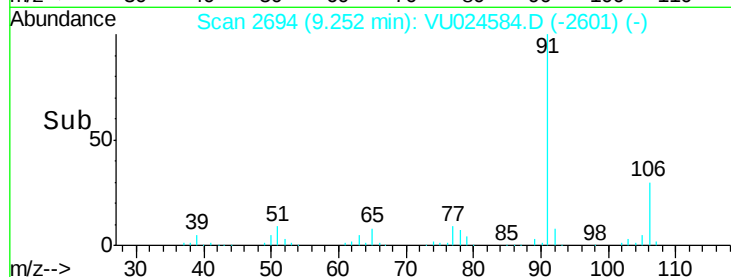
40000

20000

0

9.20 9.25 9.30 9.35

Time-->



#53

m,p-Xylene

Concen: 10.251 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU024584.D

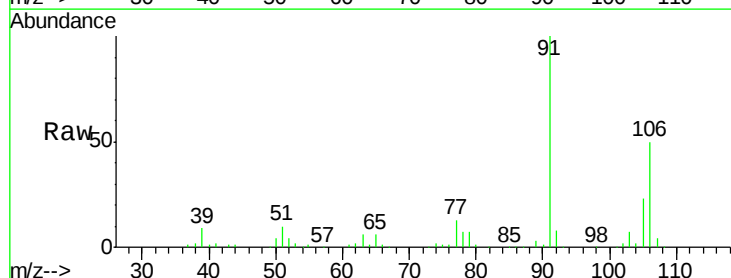
Acq: 15 Jun 2018 10:34

Tgt Ion: 106 Resp: 44183

Ion Ratio Lower Upper

106 100

91 200.1 141.5 262.7



Abundance Ion 106.00 (105.70 to 106.70): VU024585.D (-2720) (-)

Ion 91.00 (90.70 to 91.70): VU024585.D (-2720) (-)

9.38

60000

50000

40000

30000

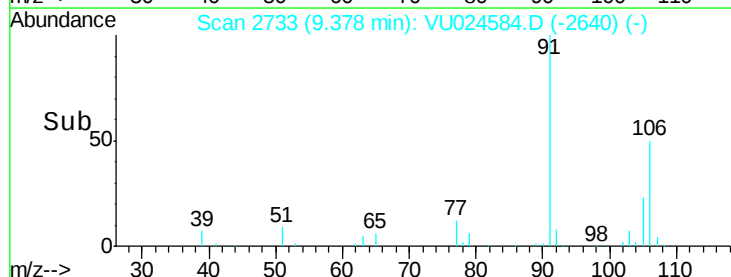
20000

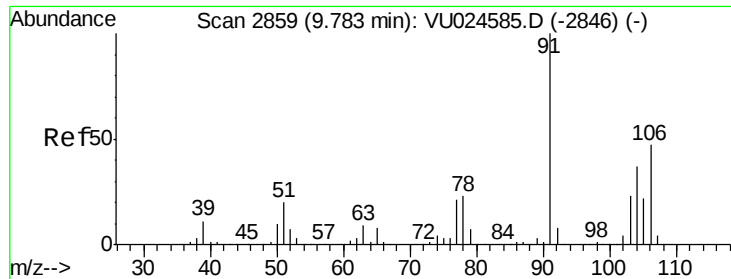
10000

0

9.30 9.35 9.40 9.45

Time-->





#54

o-xylene

Concen: 10.128 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

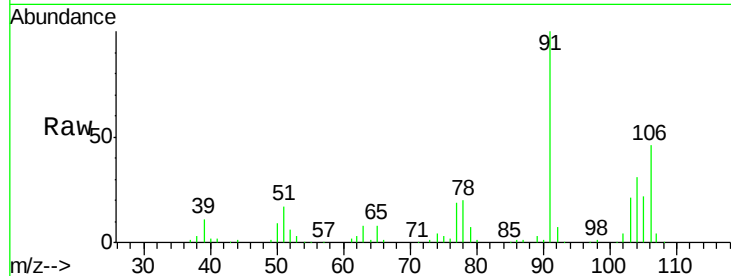
VSTD01041

Tgt Ion:106 Resp: 43066

Ion Ratio Lower Upper

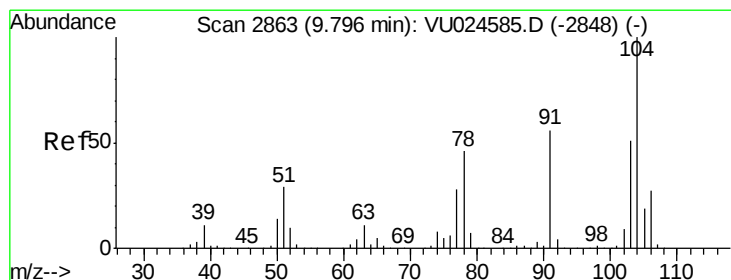
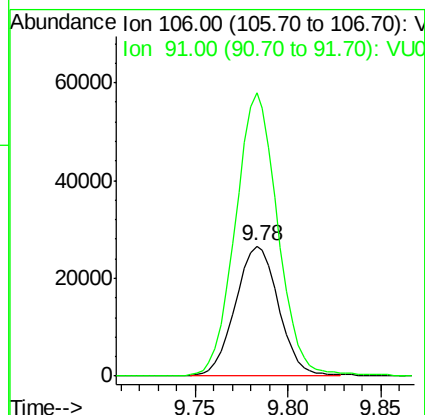
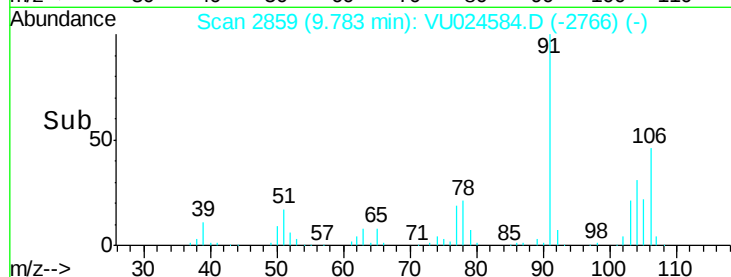
106 100

91 217.4 150.0 278.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 9.838 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VU024584.D

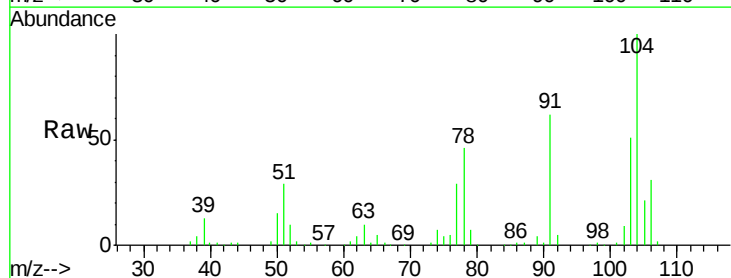
Acq: 15 Jun 2018 10:34

Tgt Ion:104 Resp: 71131

Ion Ratio Lower Upper

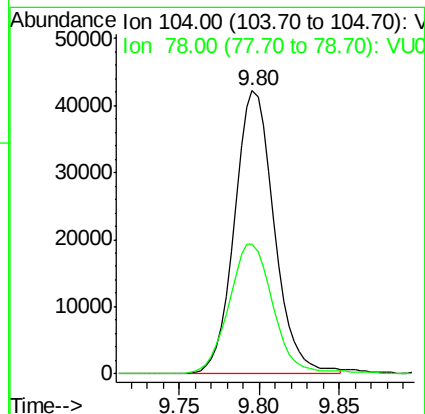
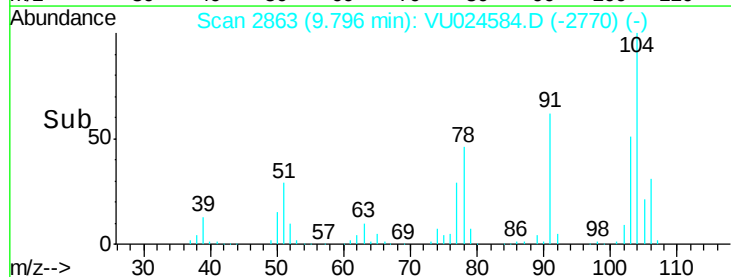
104 100

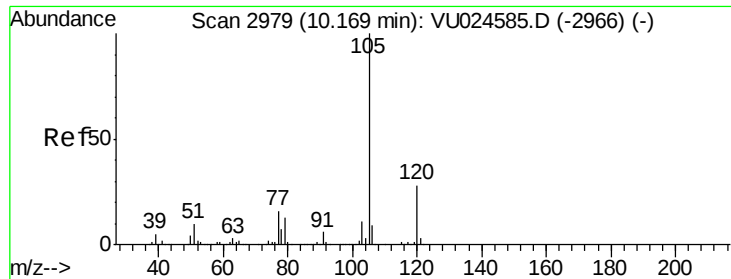
78 45.9 32.2 59.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 10.212 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

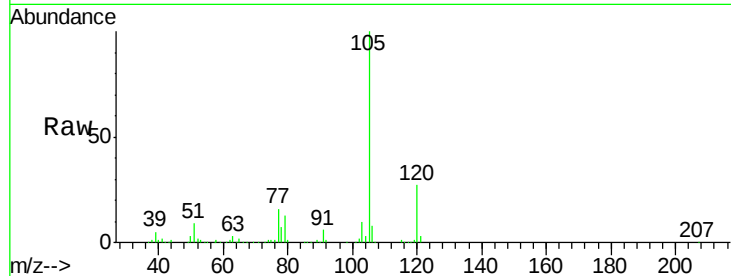
Tgt Ion: 105 Resp: 114565

Ion Ratio Lower Upper

105 100

120 26.9 22.1 33.1

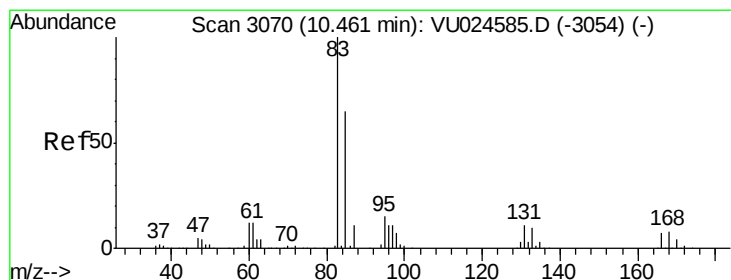
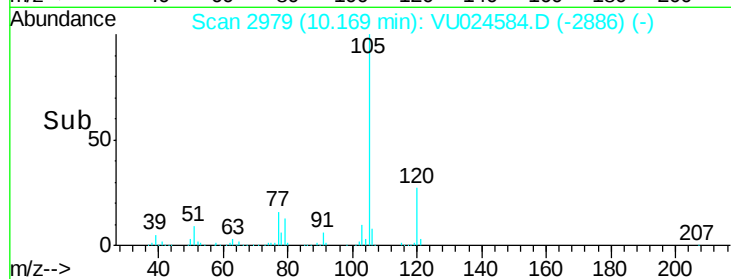
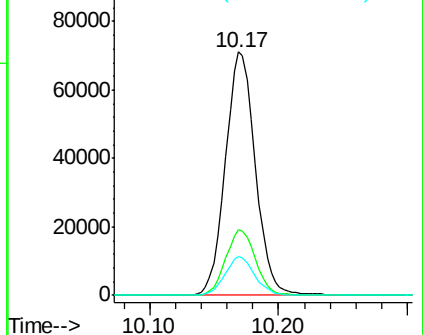
77 15.7 12.7 19.1



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: 10.183 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

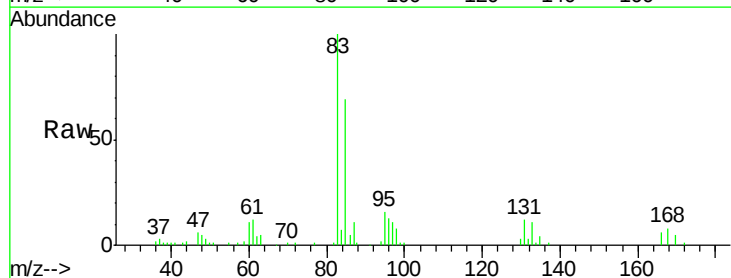
Tgt Ion: 83 Resp: 40345

Ion Ratio Lower Upper

83 100

85 69.0 45.9 85.3

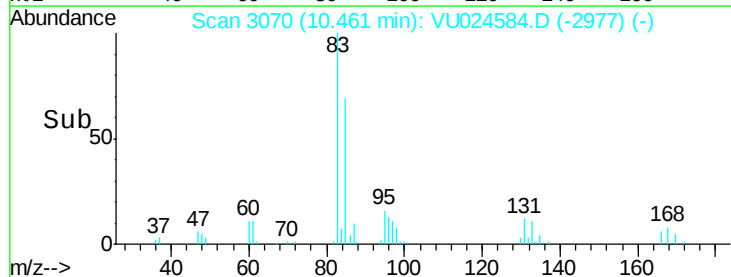
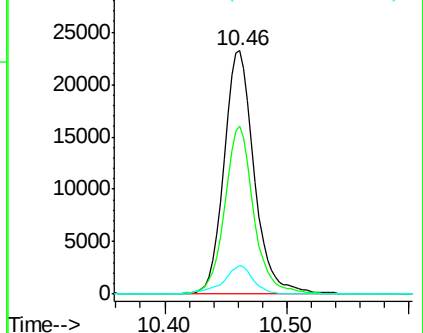
131 11.5 8.6 12.8

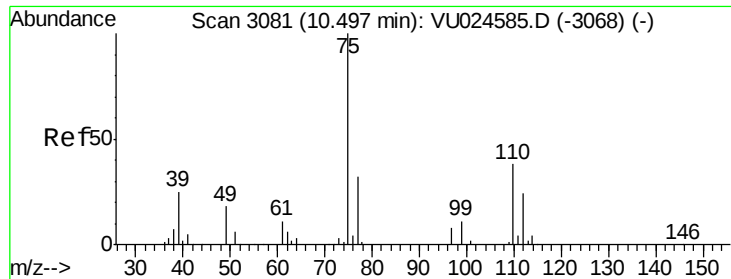


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.060 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

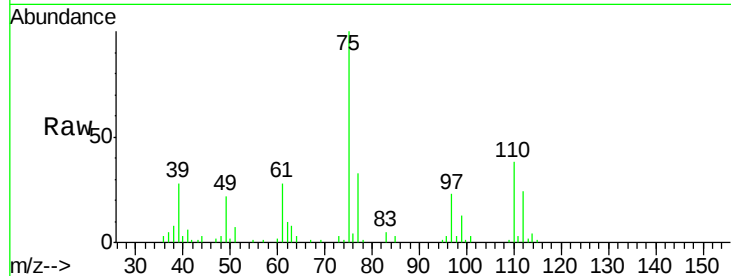
VSTD01041

Tgt Ion: 75 Resp: 31251

Ion Ratio Lower Upper

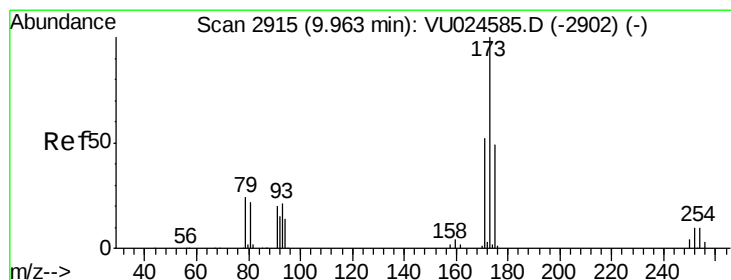
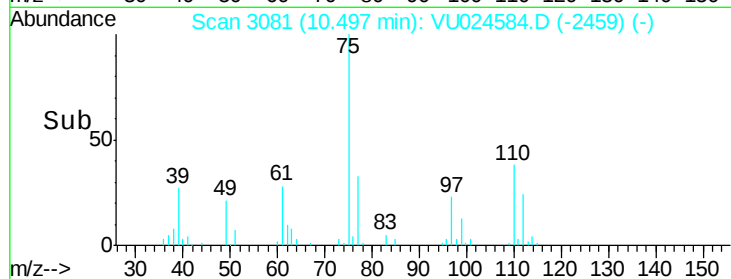
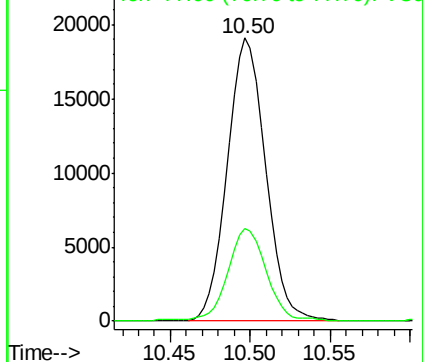
75 100

77 31.5 26.3 39.5



Abundance Ion 75.00 (74.70 to 75.70): VU024585.D (-3068) (-)

Ion 77.00 (76.70 to 77.70): VU024585.D (-3068) (-)



#61

Bromoform

Concen: 10.310 ug/L

RT: 9.96 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

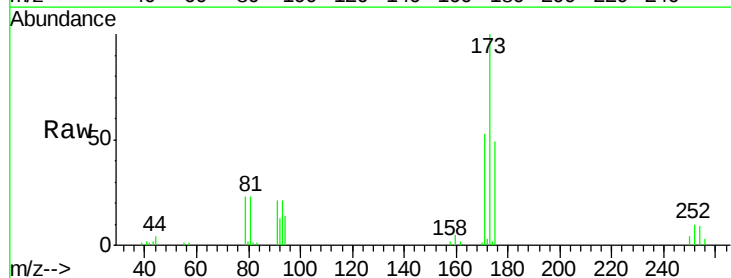
Tgt Ion: 173 Resp: 23261

Ion Ratio Lower Upper

173 100

175 49.3 39.3 58.9

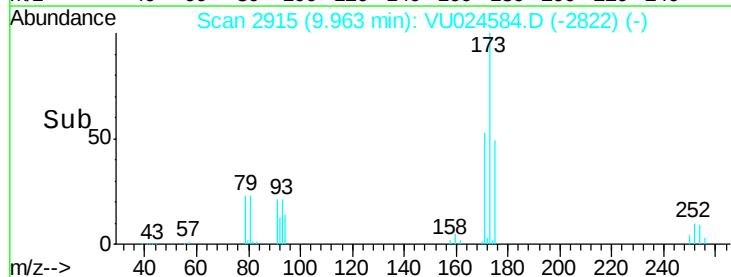
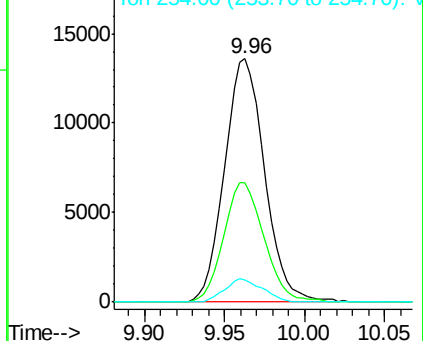
254 8.9 7.8 11.6

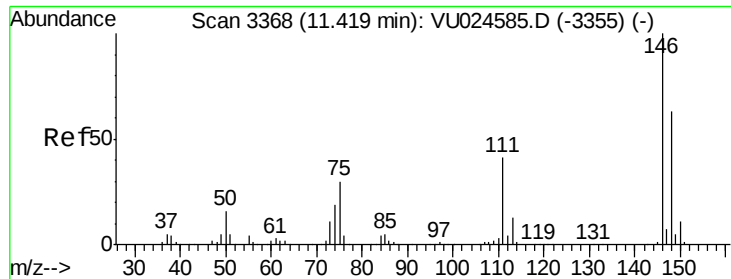


Abundance Ion 173.00 (172.70 to 173.70): VU024585.D (-2902) (-)

Ion 175.00 (174.70 to 175.70): VU024585.D (-2902) (-)

Ion 254.00 (253.70 to 254.70): VU024585.D (-2902) (-)

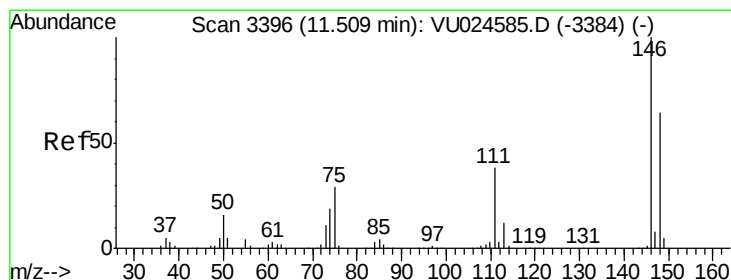
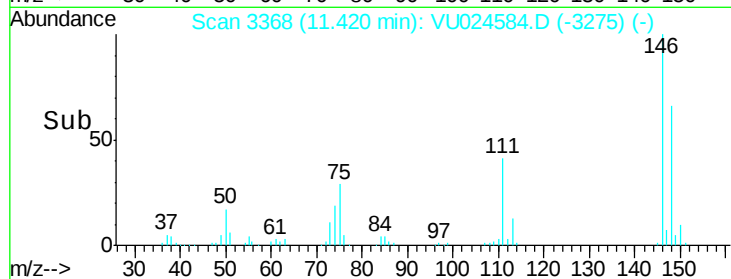
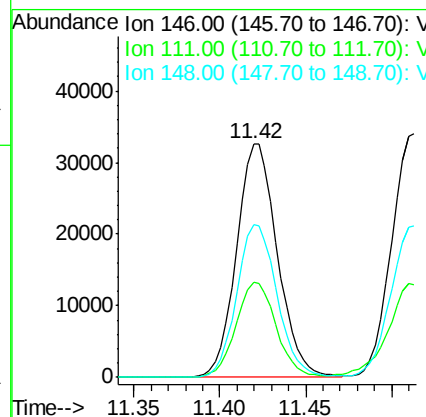
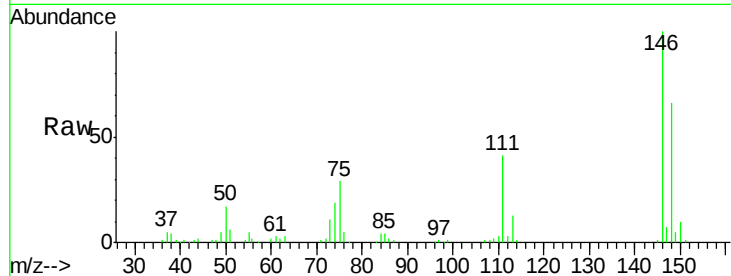




#62
 1,3-Dichlorobenzene
 Concen: 10.335 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

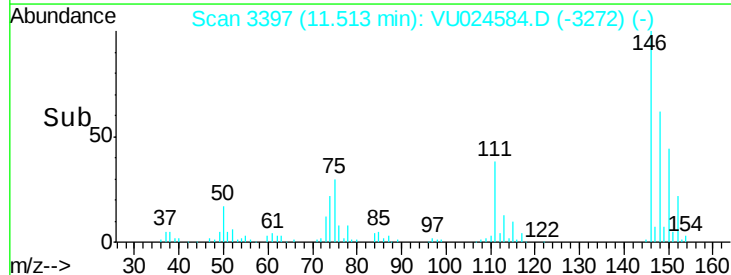
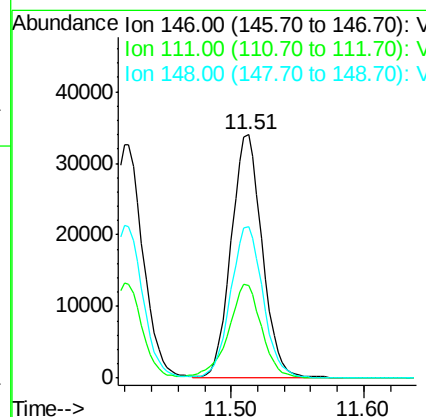
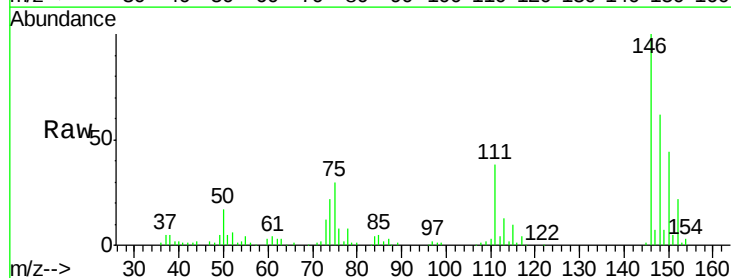
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01041

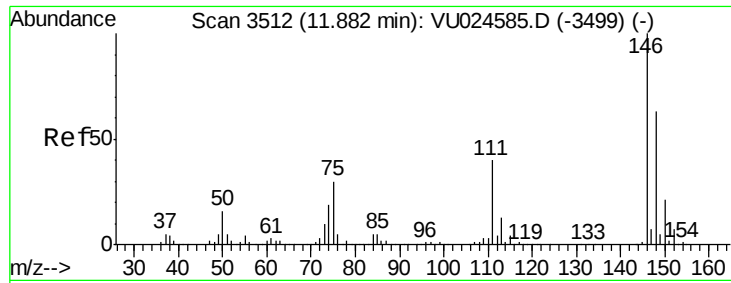
Tgt Ion:146 Resp: 54016
 Ion Ratio Lower Upper
 146 100
 111 40.8 28.4 52.8
 148 65.6 44.3 82.3



#63
 1,4-Dichlorobenzene
 Concen: 10.542 ug/L
 RT: 11.51 min Scan# 3397
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Tgt Ion:146 Resp: 55579
 Ion Ratio Lower Upper
 146 100
 111 38.1 26.5 49.1
 148 62.1 44.6 82.8





#65

1,2-Dichlorobenzene

Concen: 10.466 ug/L

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

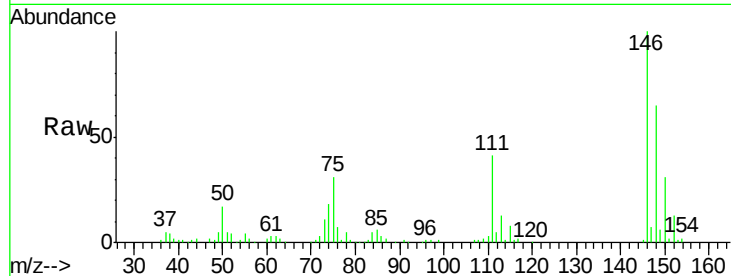
Tgt Ion:146 Resp: 54744

Ion Ratio Lower Upper

146 100

111 41.5 32.2 48.4

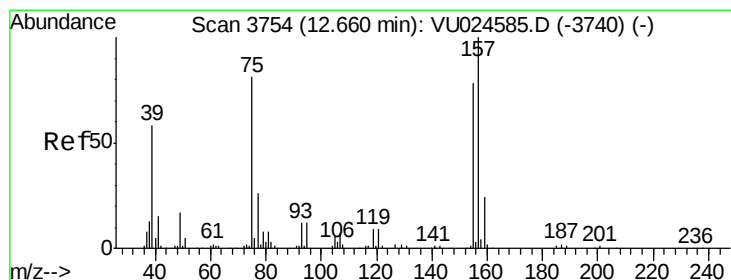
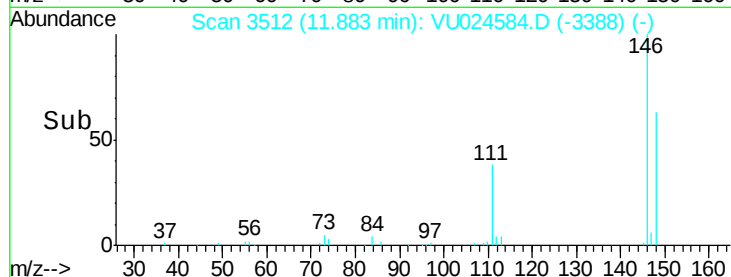
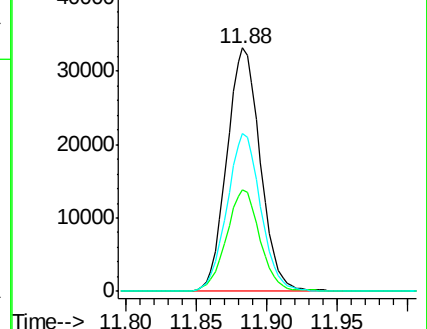
148 64.7 50.8 76.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 9.774 ug/L

RT: 12.66 min Scan# 3754

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

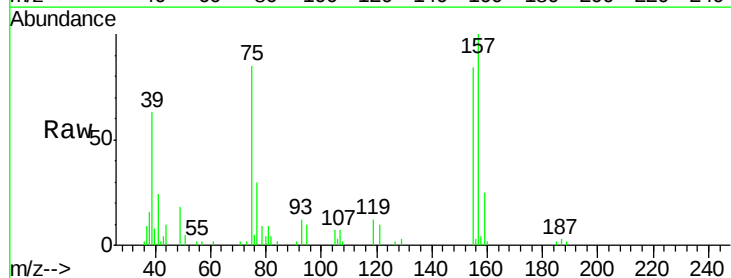
Tgt Ion: 75 Resp: 8947

Ion Ratio Lower Upper

75 100

155 99.3 76.8 115.2

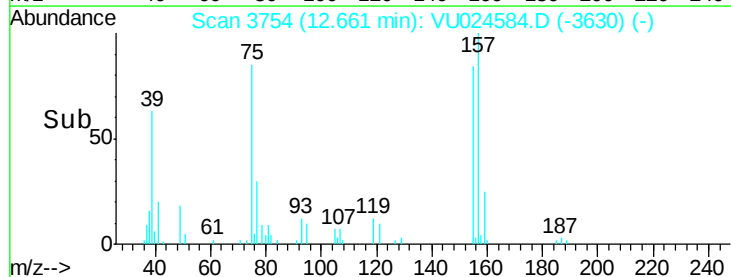
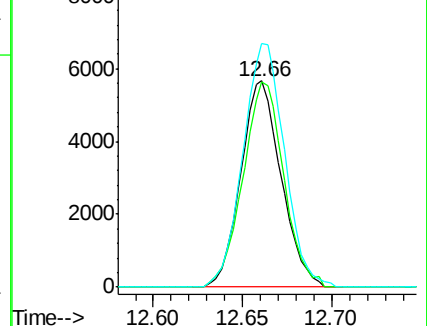
157 118.0 98.4 147.6

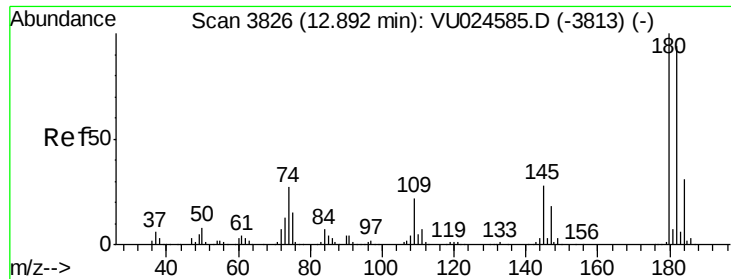


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

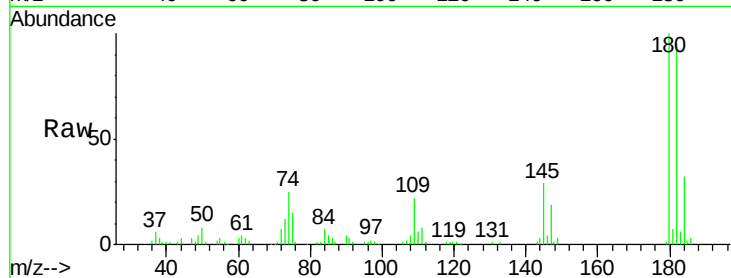




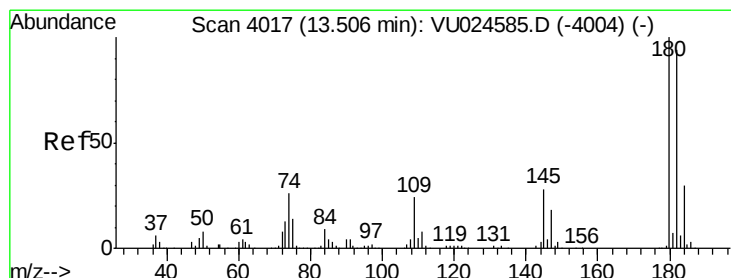
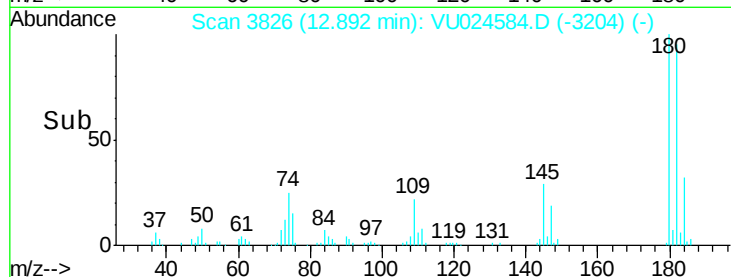
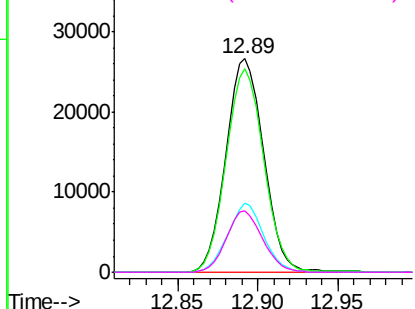
#67
 1,3,5-Trichlorobenzene
 Concen: 10.266 ug/L
 RT: 12.89 min Scan# 3826
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01041

Tgt Ion:180 Resp: 42902
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.2 114.4
 184 30.5 24.7 37.1
 145 27.5 22.6 34.0

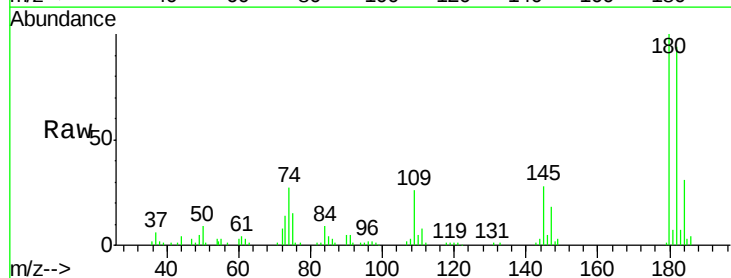


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

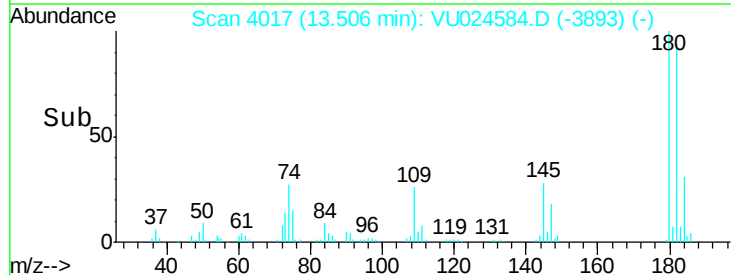
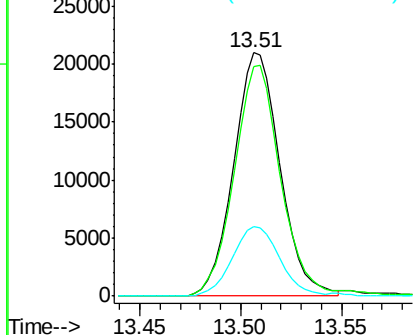


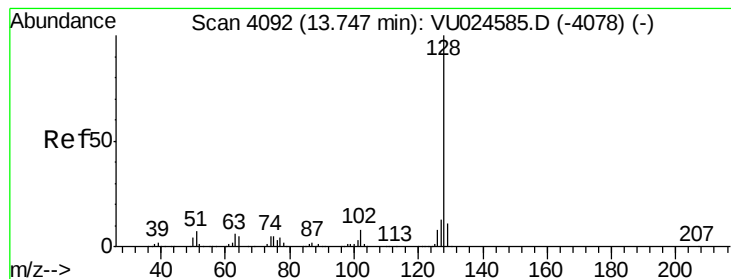
#68
 1,2,4-trichlorobenzene
 Concen: 9.709 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. 0.00 min
 Lab File: VU024584.D
 Acq: 15 Jun 2018 10:34

Tgt Ion:180 Resp: 33746
 Ion Ratio Lower Upper
 180 100
 182 94.4 76.2 114.2
 145 29.0 23.0 34.6



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: 9.398 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

Instrument :

MSVOA_U

ClientSampleId :

VSTD01041

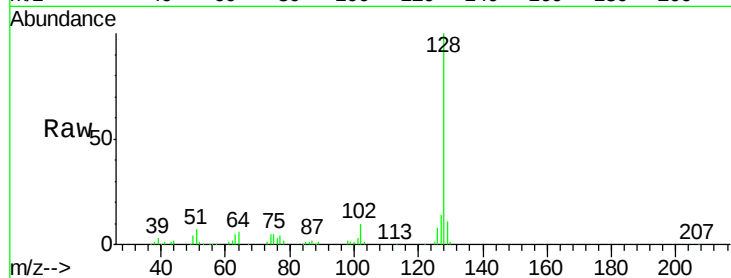
Tgt Ion:128 Resp: 90213

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

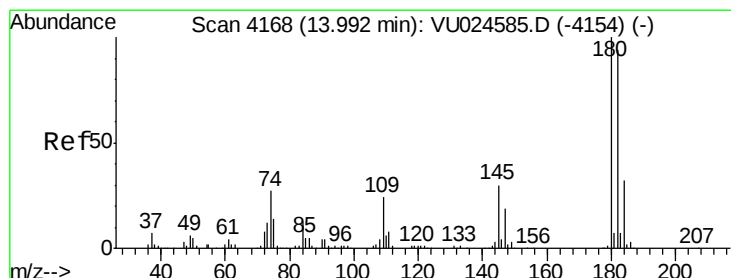
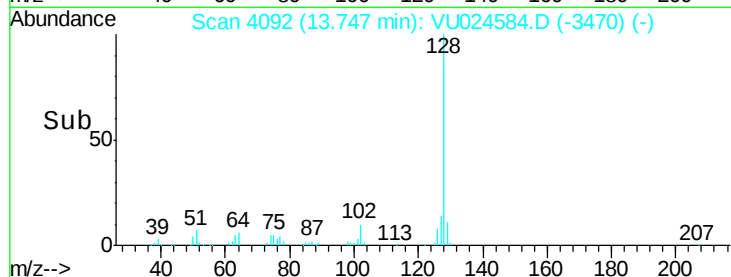
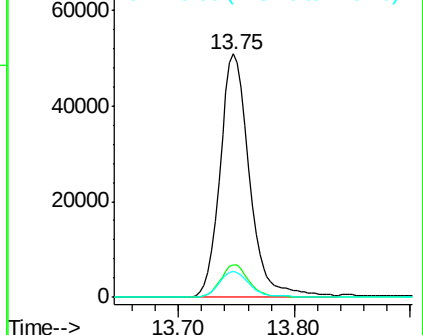
129 10.7 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 9.783 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU024584.D

Acq: 15 Jun 2018 10:34

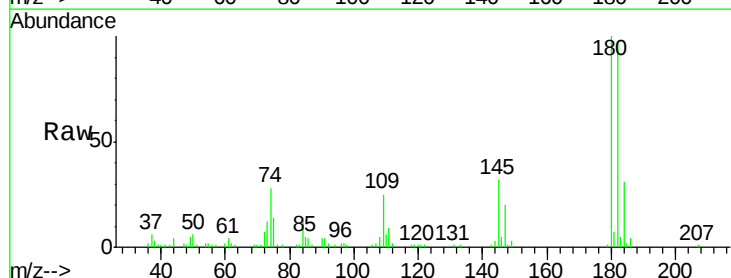
Tgt Ion:180 Resp: 34479

Ion Ratio Lower Upper

180 100

182 93.7 76.4 114.6

145 32.1 24.5 36.7



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

