

Data File : VU030098.D
Acq On : 15 Mar 2019 10:07
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Quant Time: Mar 16 00:01:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 02:44:49 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	546585	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	528492	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	281237	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	164151	45.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.80%
7) Chloroethane-d5	1.68	69	134745	46.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	92.34%
11) 1,1-Dichloroethene-d2	2.27	63	293227	44.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.86%
21) 2-Butanone-d5	4.17	46	249350	92.05	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.05%
24) Chloroform-d	4.64	84	303652	46.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.64%
26) 1,2-Dichloroethane-d4	5.31	65	174141	46.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.96%
32) Benzene-d6	5.34	84	638621	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.88%
36) 1,2-Dichloropropane-d6	6.33	67	195419	46.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.88%
41) Toluene-d8	7.56	98	594079	46.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.28%
43) trans-1,3-Dichloropropene-	7.85	79	96380	47.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.58%
47) 2-Hexanone-d5	8.31	63	211846	90.93	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	90.93%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	297466	46.49	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.98%
64) 1,2-Dichlorobenzene-d4	11.86	152	249143	45.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.46%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	156397	45.285	ug/L	99
3) Chloromethane	1.33	50	164033	43.051	ug/L	98
5) Vinyl chloride	1.40	62	184998	44.292	ug/L	100
6) Bromomethane	1.62	94	93392	36.095	ug/L	98
8) Chloroethane	1.70	64	115375	42.146	ug/L	94
9) Trichlorofluoromethane	1.88	101	257615	45.990	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	170029	47.350	ug/L	97
12) 1,1-Dichloroethene	2.28	96	154306	45.041	ug/L	95
13) Acetone	2.32	43	249926	78.912	ug/L	99
14) Carbon disulfide	2.48	76	463353	43.638	ug/L	100
15) Methyl Acetate	2.61	43	185627	45.365	ug/L	98
16) Methylene chloride	2.70	84	182190	45.038	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	169875	45.533	ug/L	99
18) Methyl tert-butyl Ether	3.00	73	514915	46.535	ug/L	99
19) 1,1-Dichloroethane	3.44	63	301336	47.042	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	195020	45.917	ug/L	98
22) 2-Butanone	4.26	43	304665	84.497	ug/L	98

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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	100425	45.646	ug/L	99
25) Chloroform	4.67	83	316590	47.090	ug/L	98
27) 1,2-Dichloroethane	5.40	62	224903	46.529	ug/L	98
29) Cyclohexane	4.99	56	266879	45.785	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	266574	46.204	ug/L	99
31) Carbon tetrachloride	5.13	117	234930	46.113	ug/L	99
33) Benzene	5.39	78	707086	46.756	ug/L	100
34) Trichloroethene	6.18	95	185482	46.797	ug/L	100
35) Methylcyclohexane	6.41	83	302953	47.135	ug/L	100
37) 1,2-Dichloropropane	6.43	63	187288	47.082	ug/L	99
38) Bromodichloromethane	6.75	83	240087	48.535	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	297635	48.080	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	492145	91.628	ug/L	99
42) Toluene	7.63	91	774285	47.091	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	271886	48.103	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	189234	47.568	ug/L	98
46) Tetrachloroethene	8.22	164	162582	46.872	ug/L	97
48) 2-Hexanone	8.36	43	406689	88.754	ug/L	98
49) Dibromochloromethane	8.47	129	212769	47.870	ug/L	99
50) 1,2-Dibromoethane	8.58	107	204888	46.725	ug/L	98
51) Chlorobenzene	9.12	112	515581	46.511	ug/L	99
52) Ethylbenzene	9.25	91	848140	46.856	ug/L	99
53) m,p-Xylene	9.37	106	333460	47.615	ug/L	98
54) o-xylene	9.77	106	325800	47.363	ug/L	99
55) Styrene	9.79	104	570744	48.729	ug/L	99
56) Isopropylbenzene	10.16	105	858838	47.691	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	318205	46.603	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	239562	46.242	ug/L	100
61) Bromoform	9.95	173	170764	48.780	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	423401	46.618	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	438559	47.487	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	429568	46.988	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	67547	45.467	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	339227	48.121	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	311974	48.380	ug/L	99
69) Naphthalene	13.74	128	973831	46.482	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	319040	47.626	ug/L	99

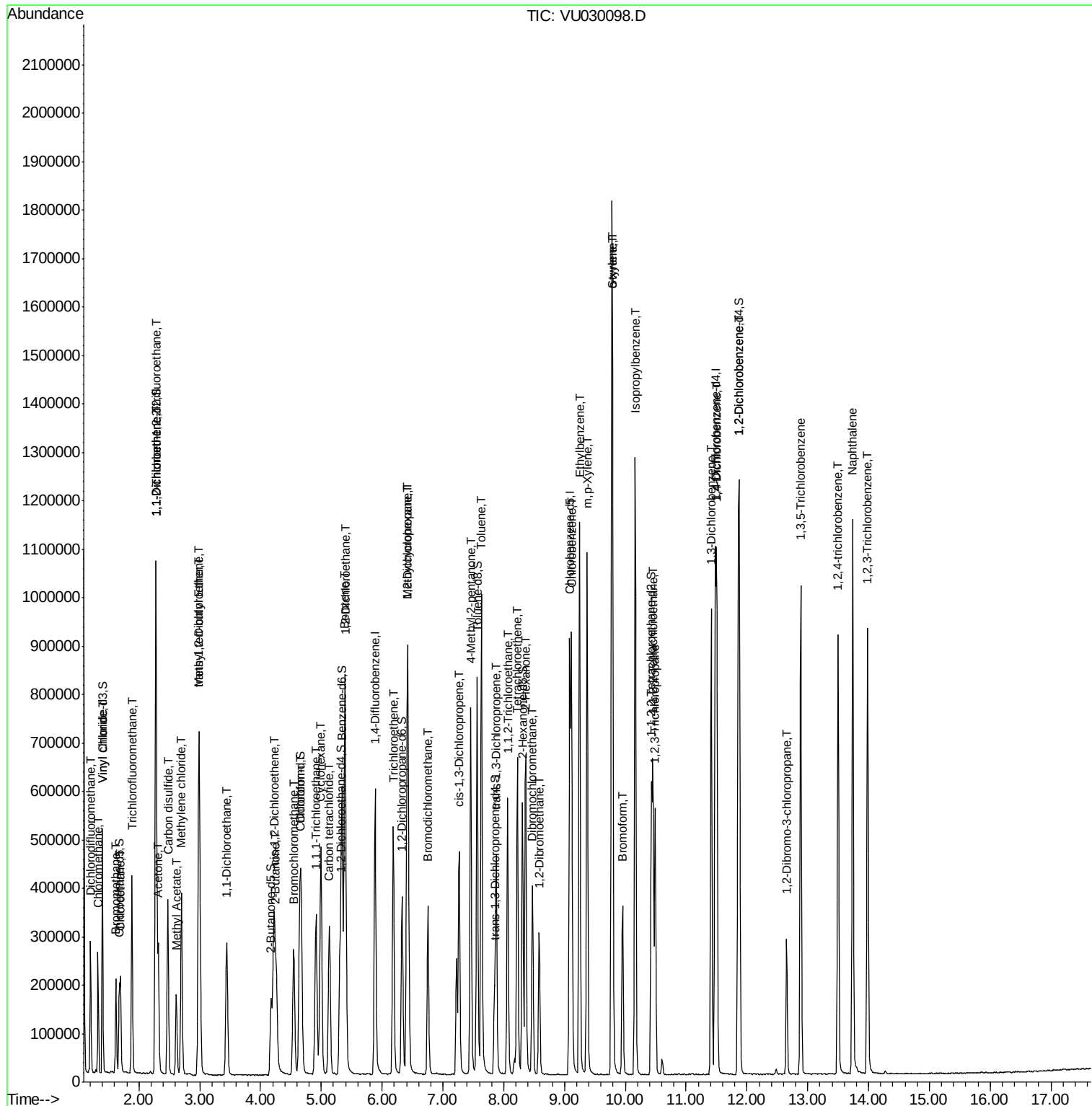
(#) = qualifier out of range (m) = manual integration (+) = signals summed

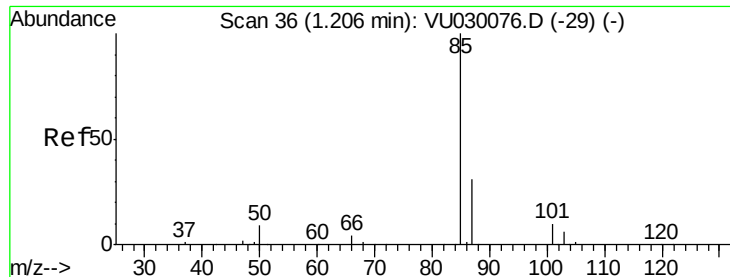
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#2

Dichlorodifluoromethane

Concen: 45.285 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

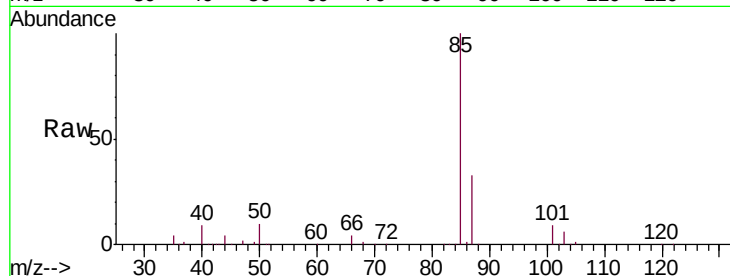
VSTD05038

Tgt Ion: 85 Resp: 156397

Ion Ratio Lower Upper

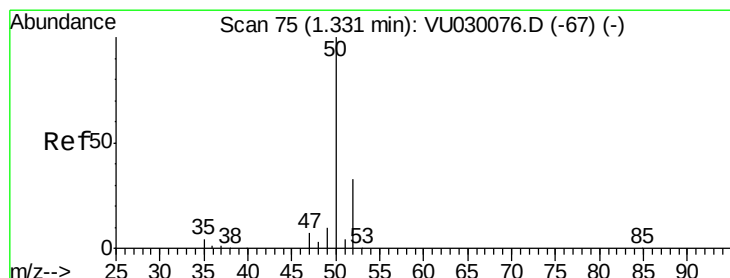
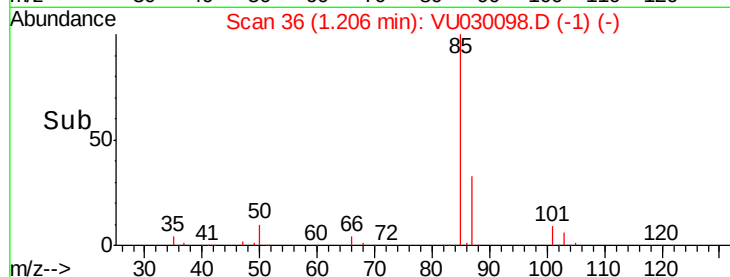
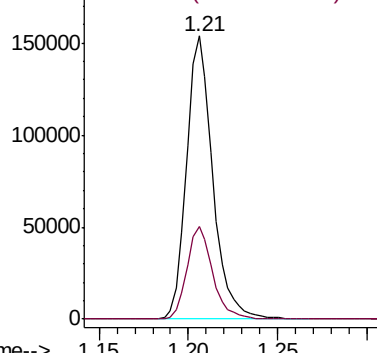
85 100

87 32.2 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 43.051 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030098.D

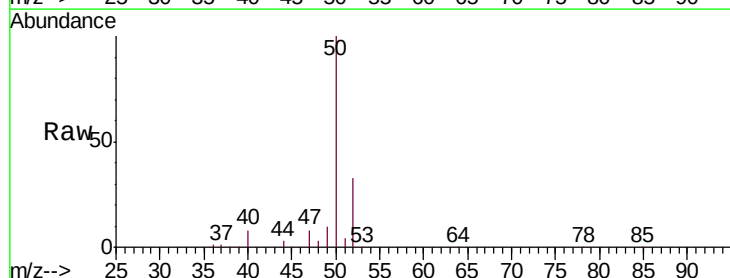
Acq: 15 Mar 2019 10:07

Tgt Ion: 50 Resp: 164033

Ion Ratio Lower Upper

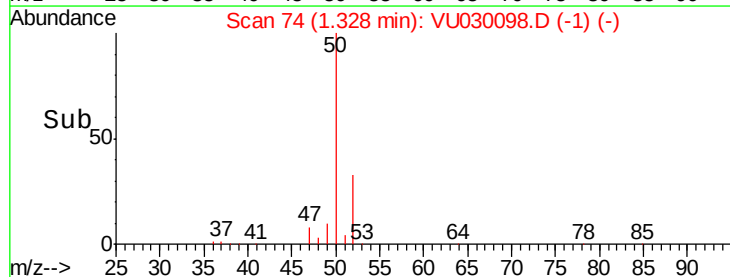
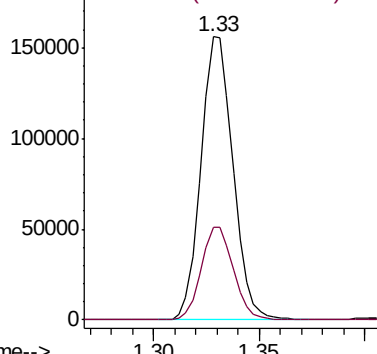
50 100

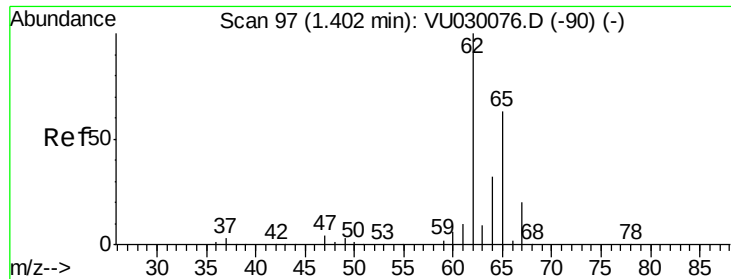
52 32.6 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 44.292 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

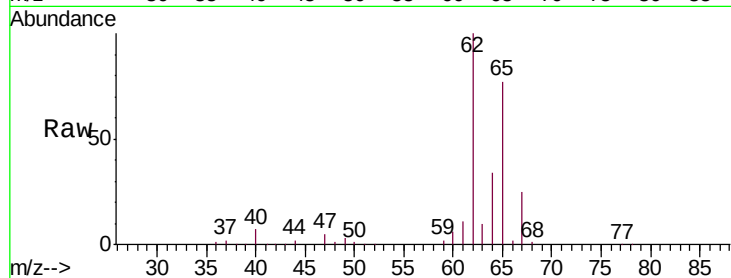
VSTD05038

Tgt Ion: 62 Resp: 184998

Ion Ratio Lower Upper

62 100

64 34.0 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU030076.D (-90) (-)

Ion 64.00 (63.70 to 64.70): VU030076.D (-90) (-)

1.40

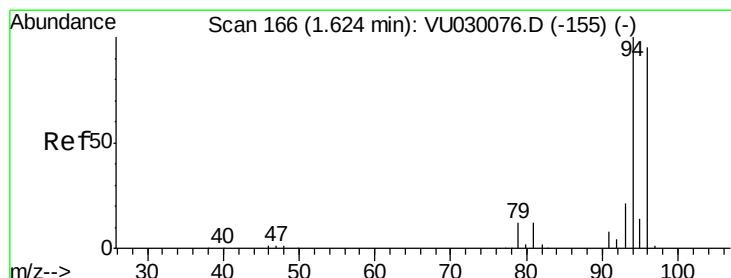
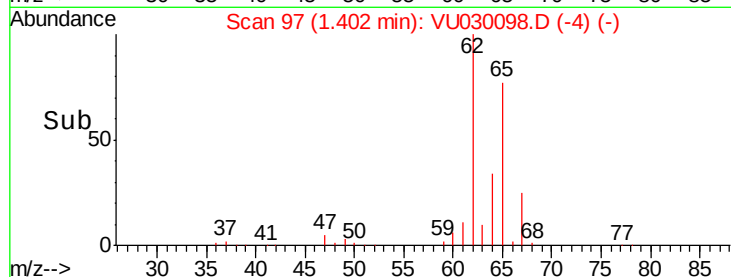
150000

100000

50000

0

Time--> 1.35 1.40 1.45



#6

Bromomethane

Concen: 36.095 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU030098.D

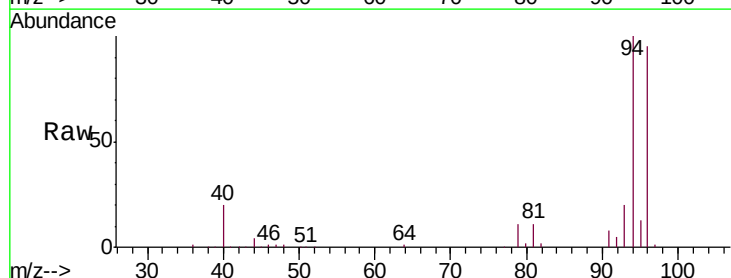
Acq: 15 Mar 2019 10:07

Tgt Ion: 94 Resp: 93392

Ion Ratio Lower Upper

94 100

96 94.5 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU030076.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030076.D (-155) (-)

1.62

80000

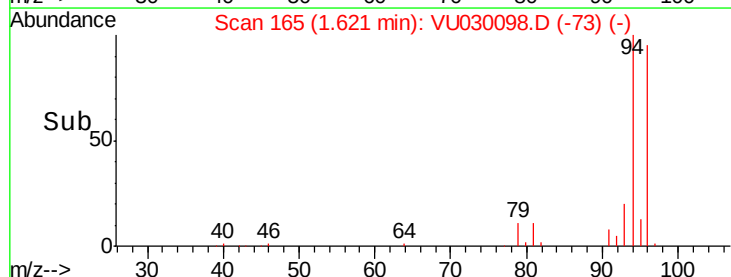
60000

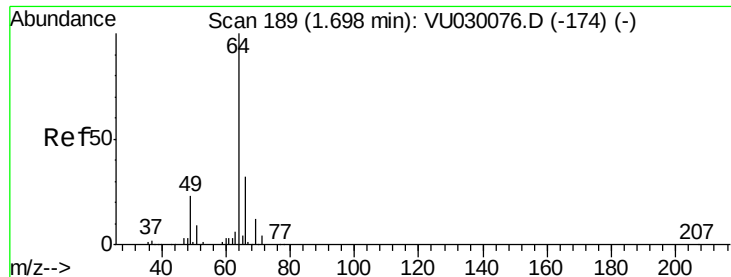
40000

20000

0

Time--> 1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 42.146 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

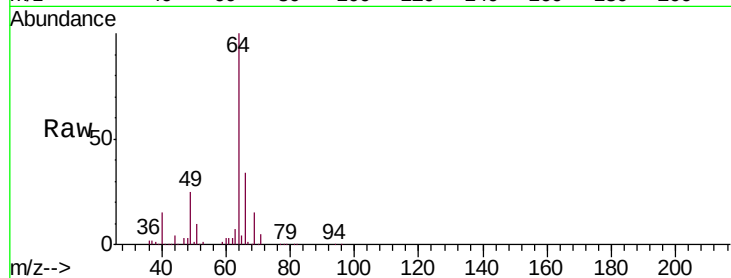
VSTD05038

Tgt Ion: 64 Resp: 115375

Ion Ratio Lower Upper

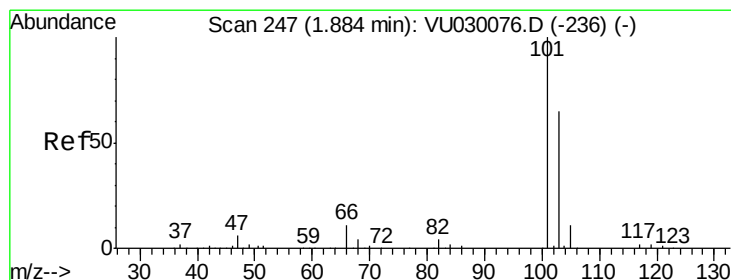
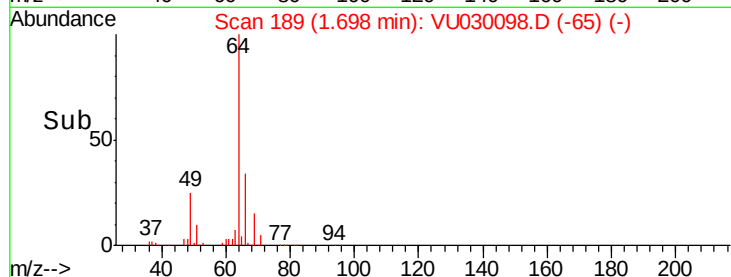
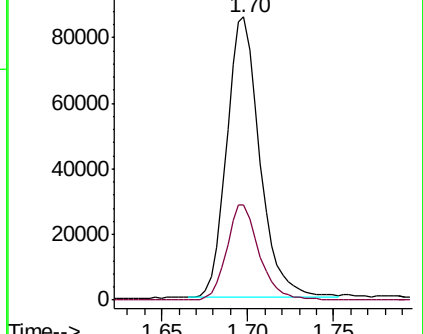
64 100

66 33.7 21.3 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU030076.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU030076.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 45.990 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030098.D

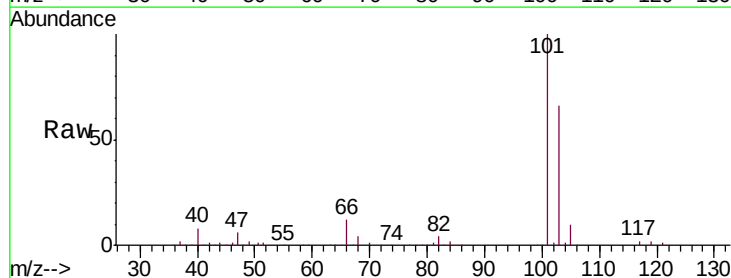
Acq: 15 Mar 2019 10:07

Tgt Ion: 101 Resp: 257615

Ion Ratio Lower Upper

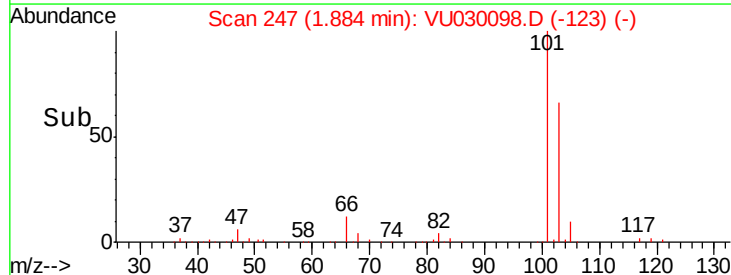
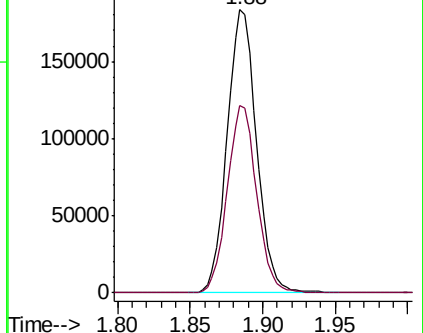
101 100

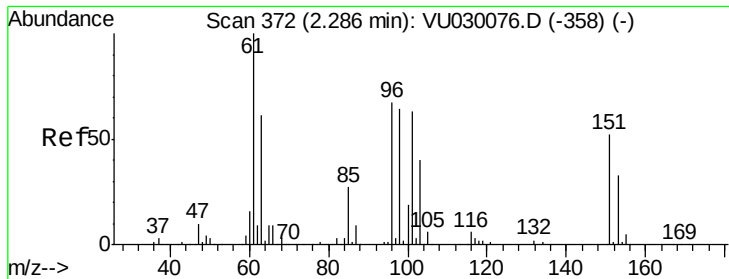
103 66.1 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU030076.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030076.D (-236) (-)





#10

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

Concen: 47.350 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

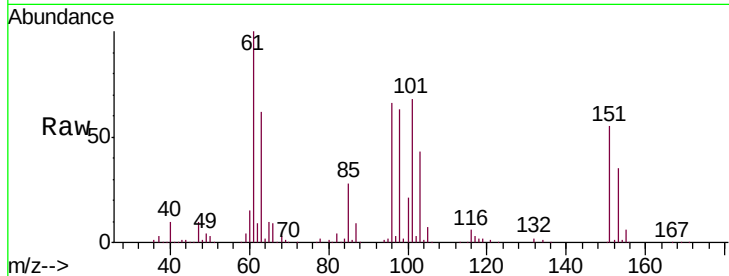
Tgt Ion: 101 Resp: 170029

Ion Ratio Lower Upper

101 100

85 40.1 33.0 49.4

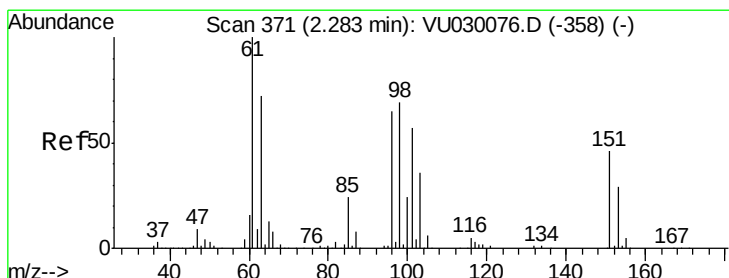
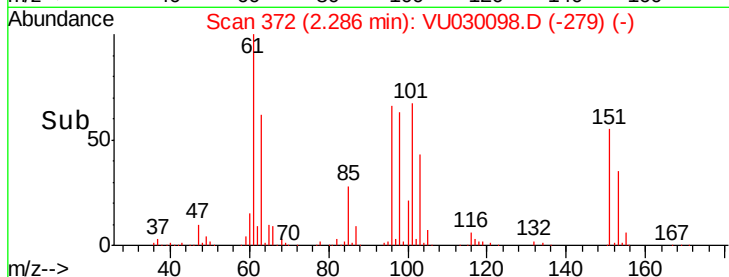
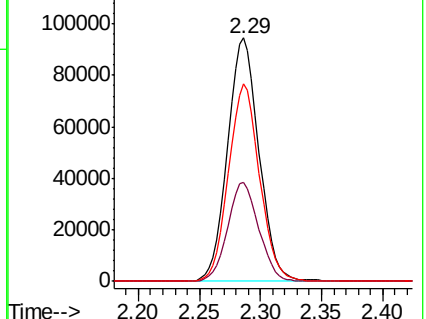
151 80.0 66.1 99.1



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: 45.041 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

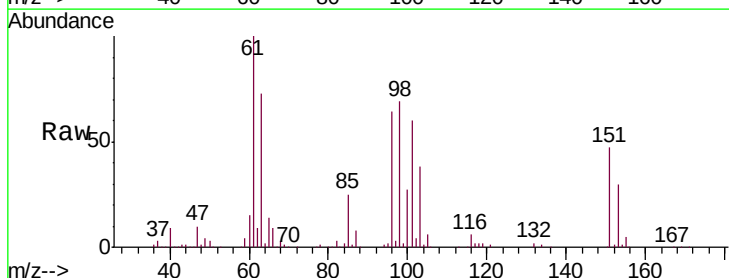
Tgt Ion: 96 Resp: 154306

Ion Ratio Lower Upper

96 100

61 155.9 110.4 205.0

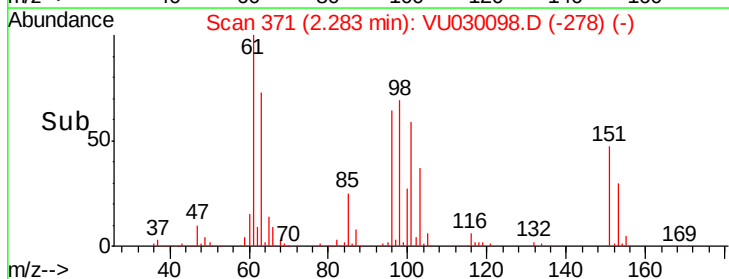
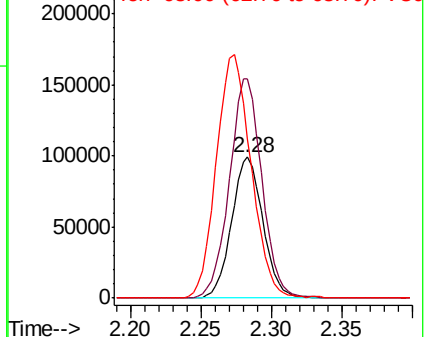
63 113.3 86.5 160.7

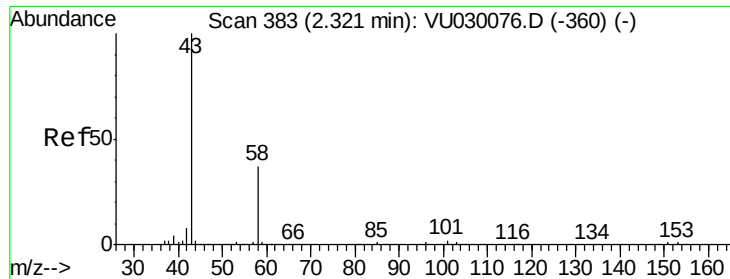


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 78.912 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

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ClientSampleId :

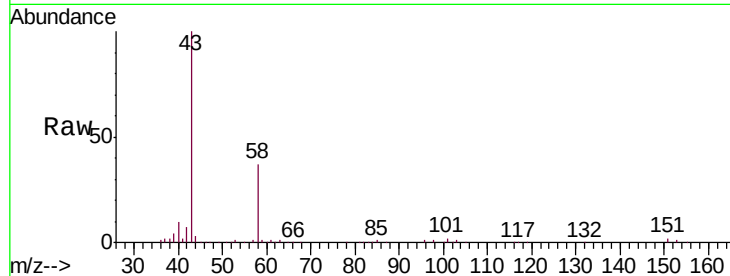
VSTD05038

Tgt Ion: 43 Resp: 249926

Ion Ratio Lower Upper

43 100

58 37.3 0.0 73.0



Abundance Ion 43.00 (42.70 to 43.70): VU030076.D (-360) (-)

Ion 58.00 (57.70 to 58.70): VU030076.D (-360) (-)

2.32

150000

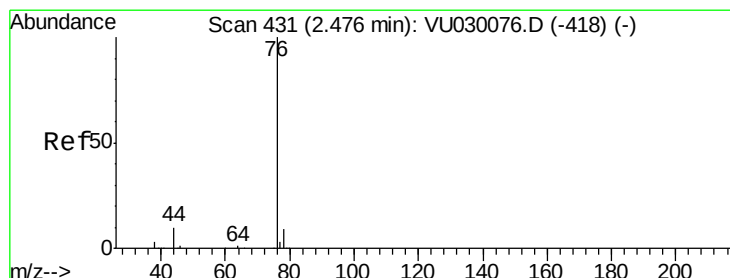
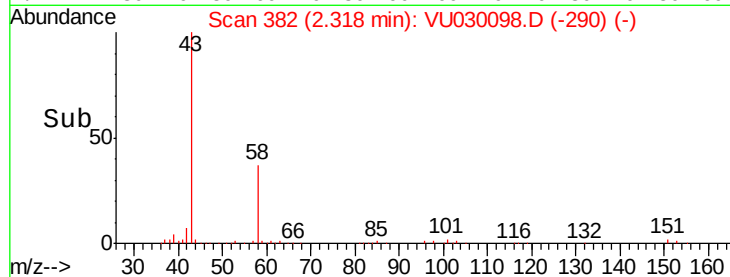
100000

50000

0

Time-->

2.20 2.30 2.40



#14

Carbon disulfide

Concen: 43.638 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030098.D

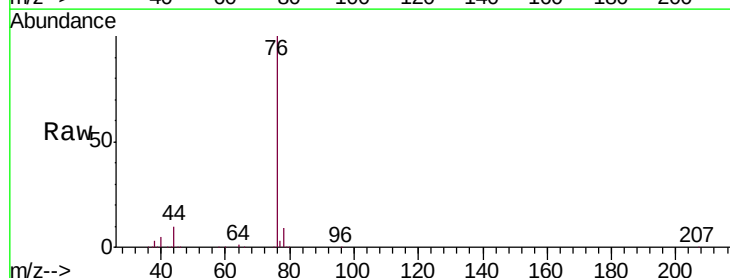
Acq: 15 Mar 2019 10:07

Tgt Ion: 76 Resp: 463353

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030076.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030076.D (-418) (-)

2.48

300000

250000

200000

150000

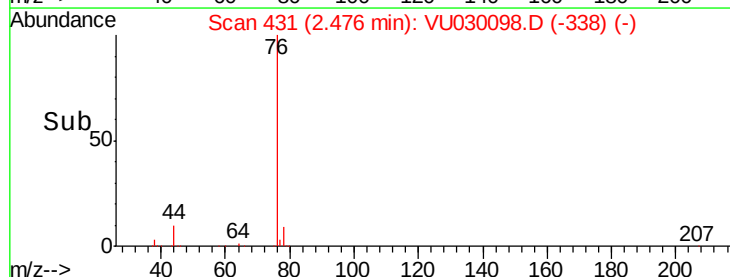
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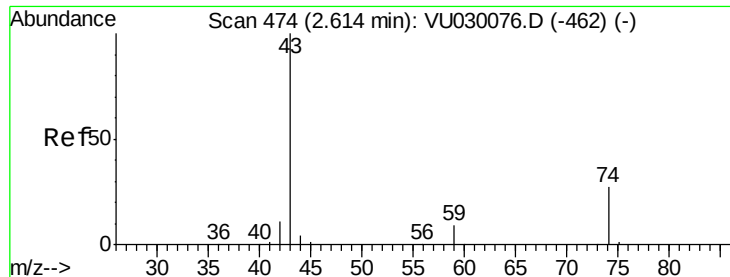
50000

0

Time-->

2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 45.365 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

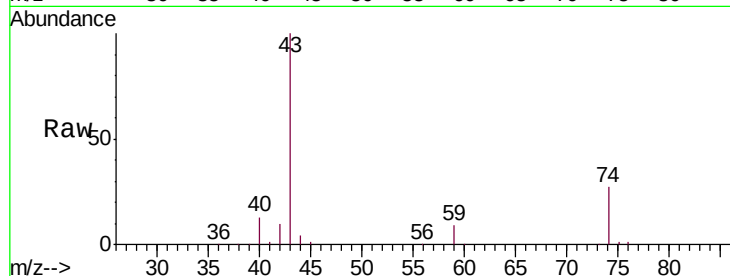
VSTD05038

Tgt Ion: 43 Resp: 185627

Ion Ratio Lower Upper

43 100

74 26.3 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VU030076.D (-462) (-)

Ion 74.00 (73.70 to 74.70): VU030076.D (-462) (-)

2.61

120000

100000

80000

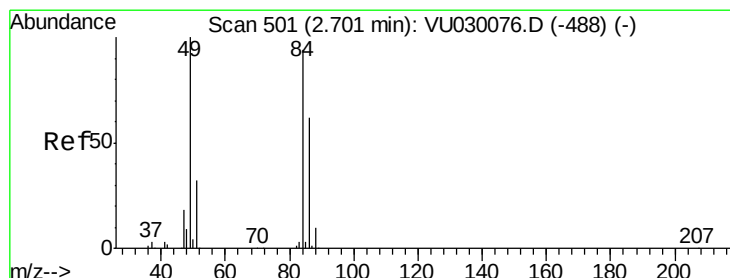
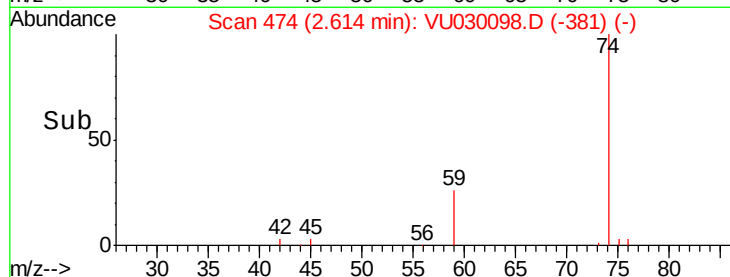
60000

40000

20000

0

Time-->



#16

Methylene chloride

Concen: 45.038 ug/L

RT: 2.70 min Scan# 501

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

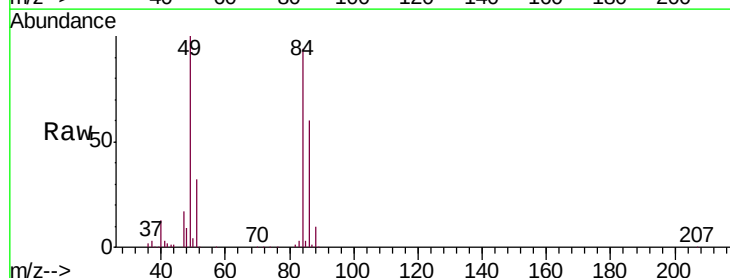
Tgt Ion: 84 Resp: 182190

Ion Ratio Lower Upper

84 100

86 64.0 45.2 84.0

49 106.8 73.6 136.6



Abundance Ion 84.00 (83.70 to 84.70): VU030076.D (-488) (-)

Ion 86.00 (85.70 to 86.70): VU030076.D (-488) (-)

Ion 49.00 (48.70 to 49.70): VU030076.D (-488) (-)

2.70

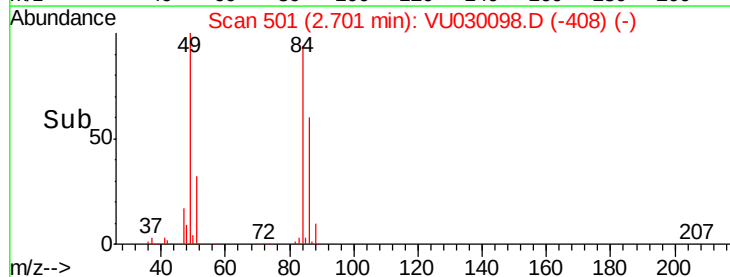
150000

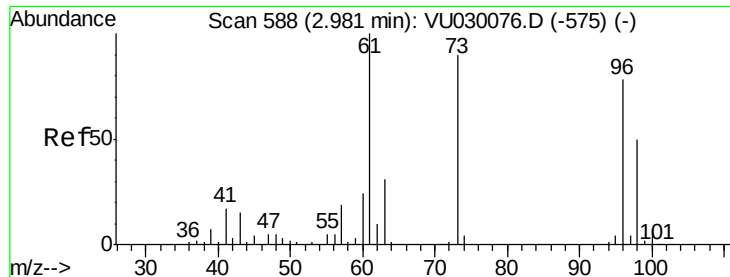
100000

50000

0

Time-->





#17

trans-1,2-Dichloroethene

Concen: 45.533 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

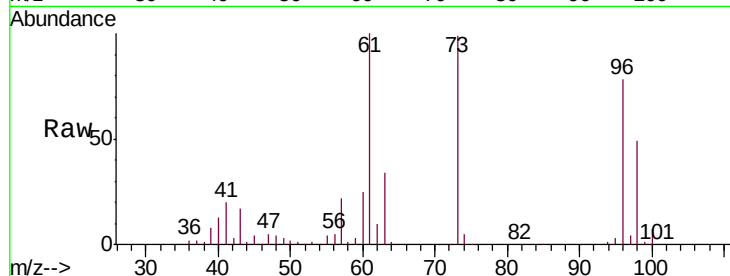
Tgt Ion: 96 Resp: 169875

Ion Ratio Lower Upper

96 100

61 128.8 89.4 166.0

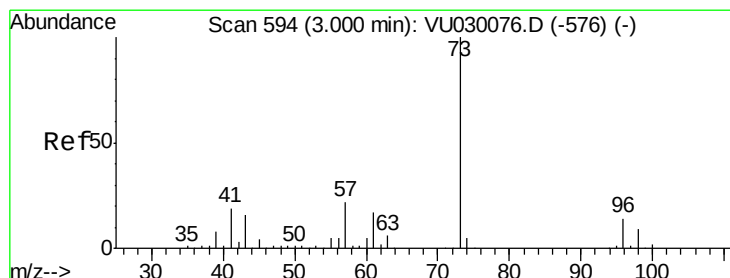
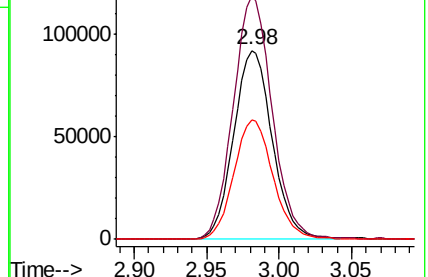
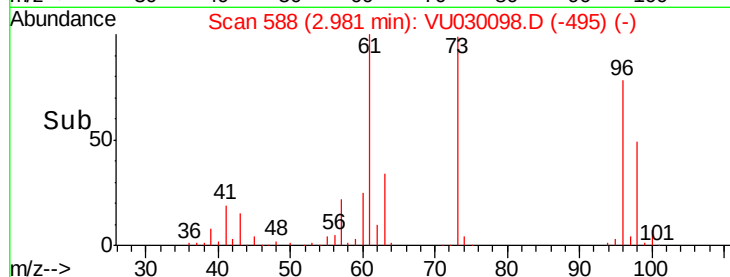
98 63.2 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU030076.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU030076.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU030076.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 46.535 ug/L

RT: 3.00 min Scan# 593

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

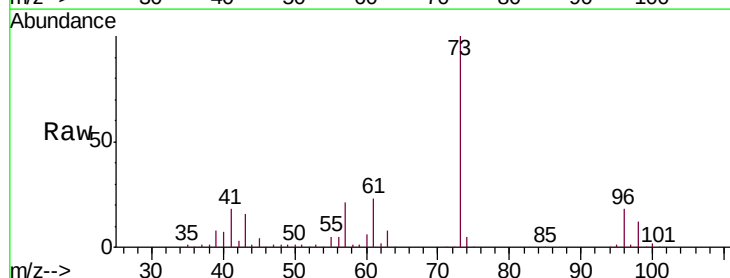
Tgt Ion: 73 Resp: 514915

Ion Ratio Lower Upper

73 100

43 16.1 13.1 19.7

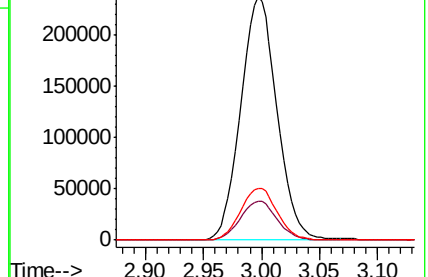
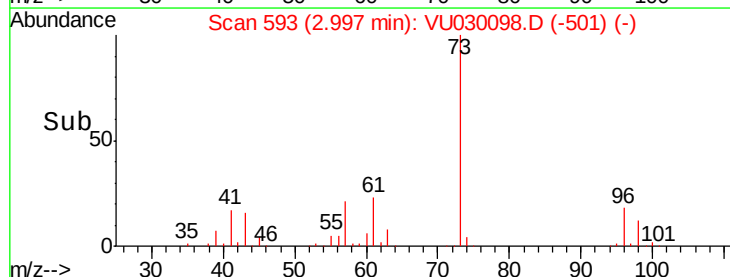
57 21.6 17.1 25.7

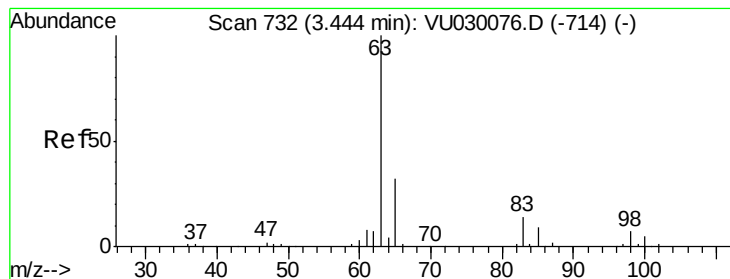


Abundance Ion 73.00 (72.70 to 73.70): VU030076.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030076.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030076.D (-576) (-)





#19

1,1-Dichloroethane

Concen: 47.042 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

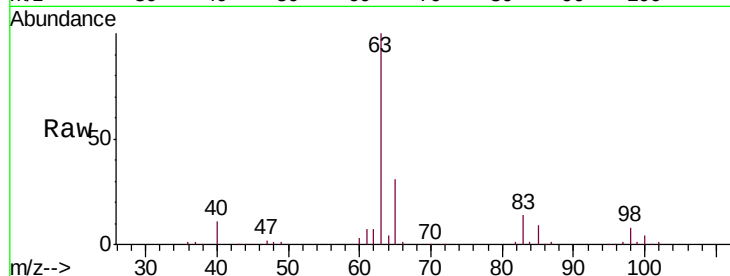
Tgt Ion: 63 Resp: 301336

Ion Ratio Lower Upper

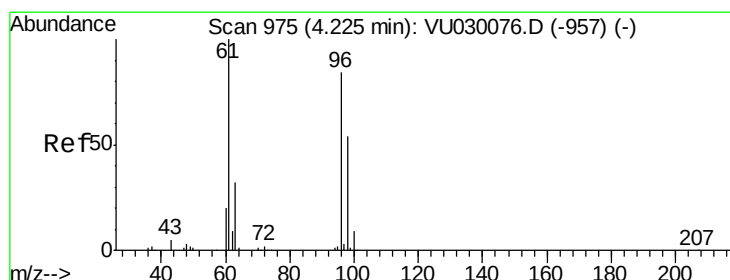
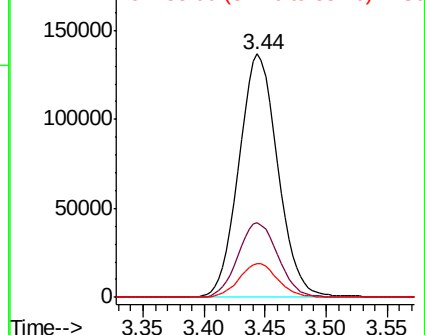
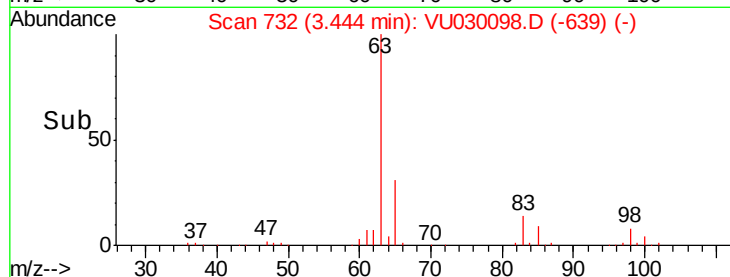
63 100

65 30.6 22.0 41.0

83 13.9 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VU030098.D (-639) (-)



#20

cis-1,2-Dichloroethene

Concen: 45.917 ug/L

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

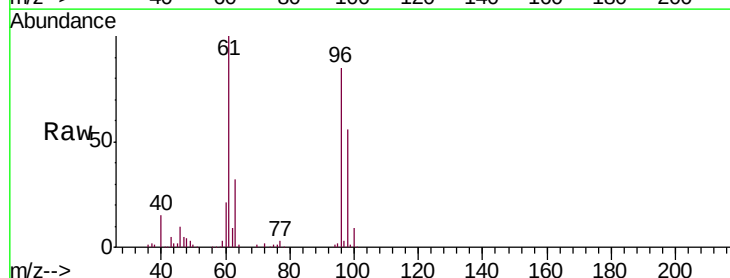
Tgt Ion: 96 Resp: 195020

Ion Ratio Lower Upper

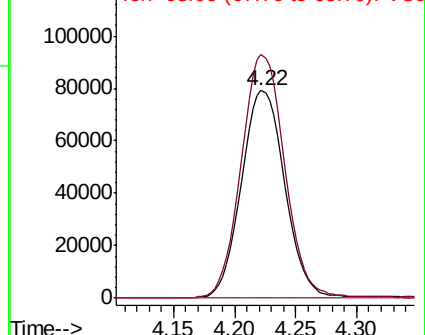
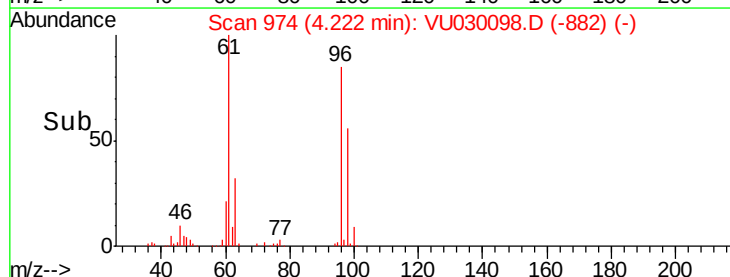
96 100

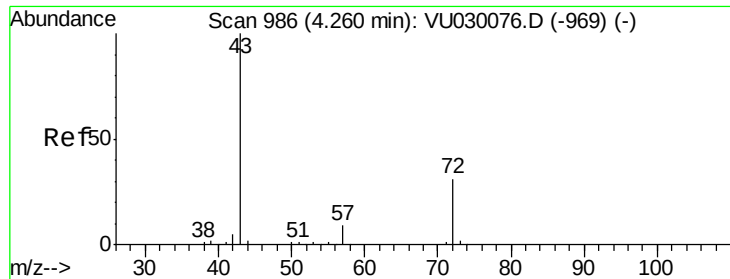
61 117.4 80.8 150.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU030098.D (-882) (-)





#22

2-Butanone

Concen: 84.497 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampled :

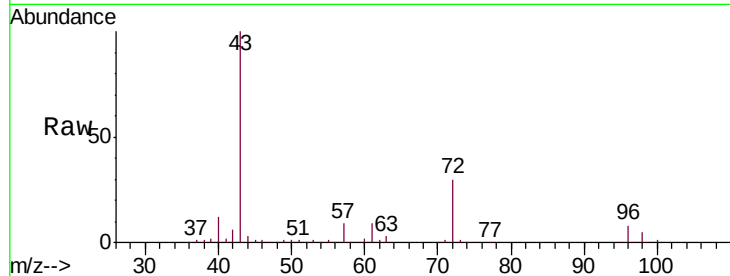
VSTD05038

Tgt Ion: 43 Resp: 304665

Ion Ratio Lower Upper

43 100

72 31.6 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030076.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030076.D (-969) (-)

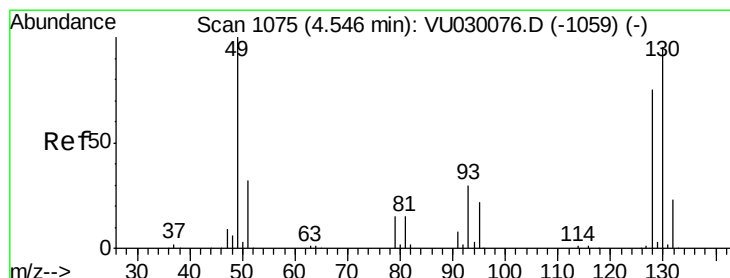
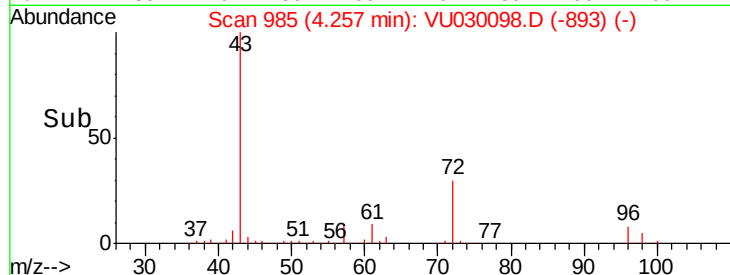
4.26

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 45.646 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Tgt Ion: 128 Resp: 100425

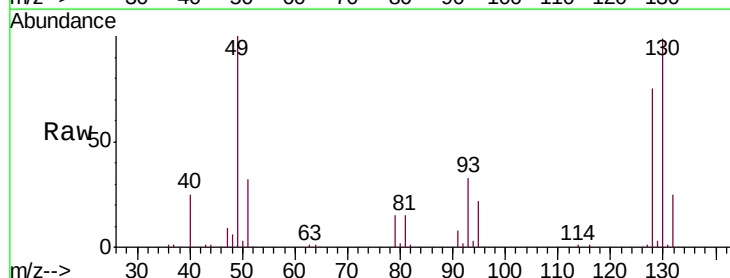
Ion Ratio Lower Upper

128 100

49 133.3 94.5 175.5

130 131.8 91.4 169.8

51 42.4 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030076.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU030076.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU030076.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU030076.D (-1059) (-)

80000

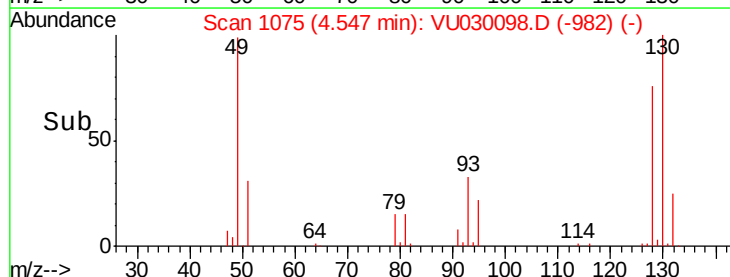
60000

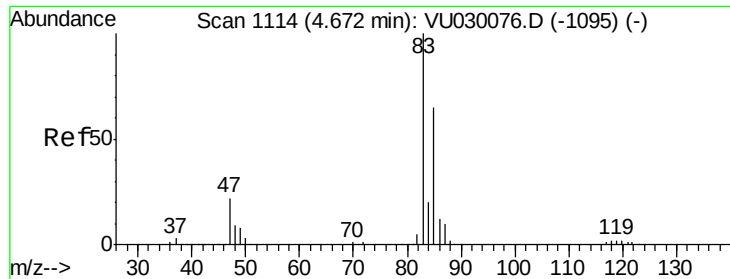
40000

20000

0

Time-->

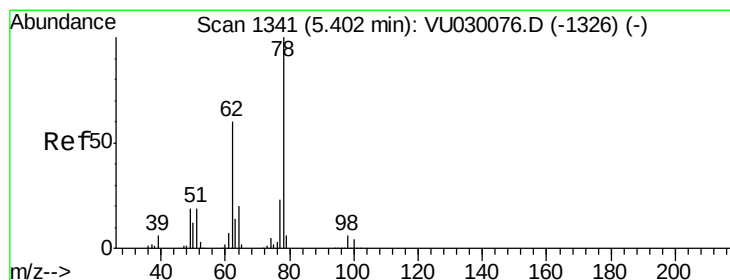
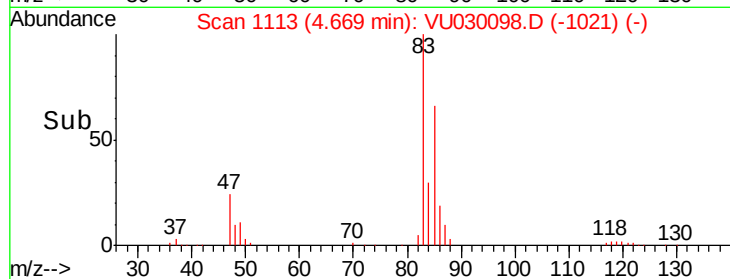
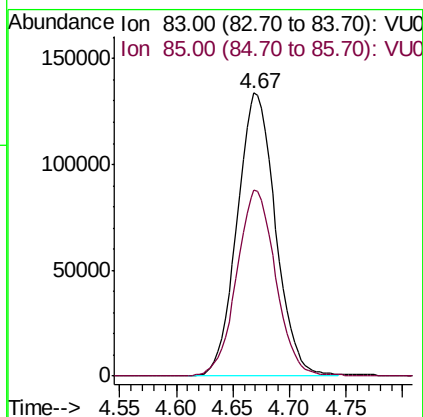
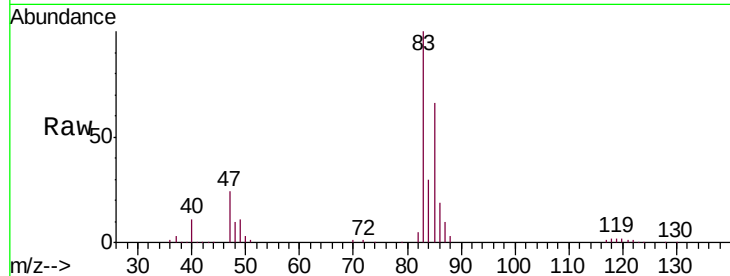




#25
Chloroform
Concen: 47.090 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

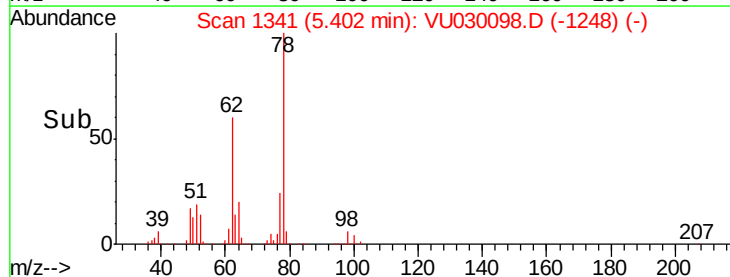
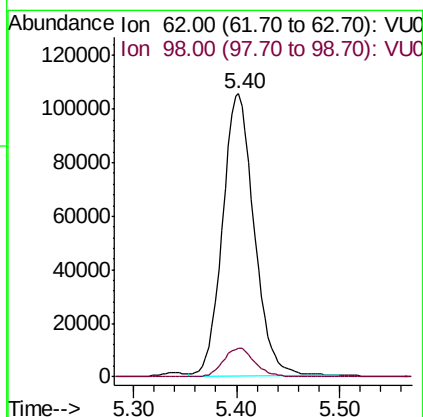
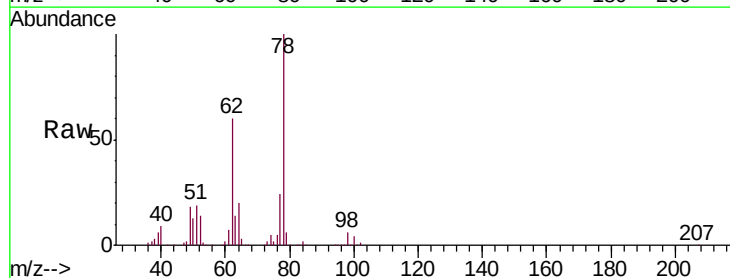
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

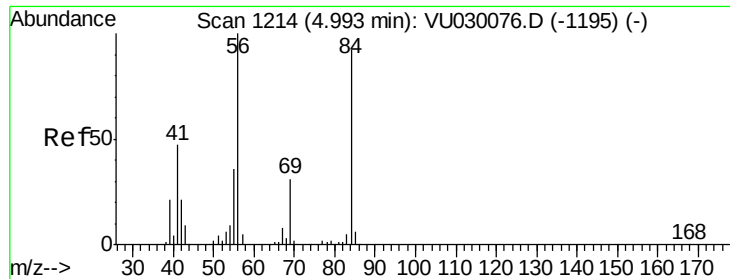
Tgt Ion: 83 Resp: 316590
Ion Ratio Lower Upper
83 100
85 65.8 44.9 83.5



#27
1,2-Dichloroethane
Concen: 46.529 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

Tgt Ion: 62 Resp: 224903
Ion Ratio Lower Upper
62 100
98 10.2 8.8 13.2

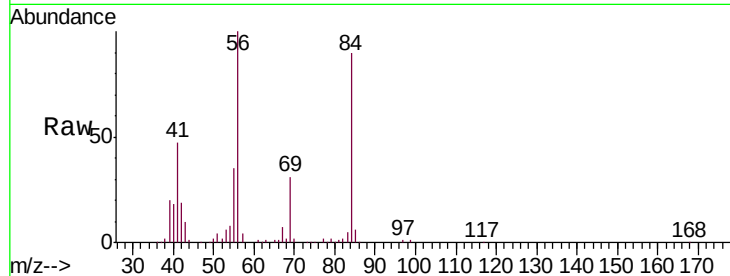




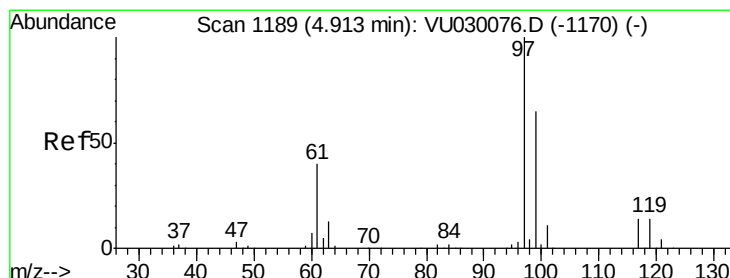
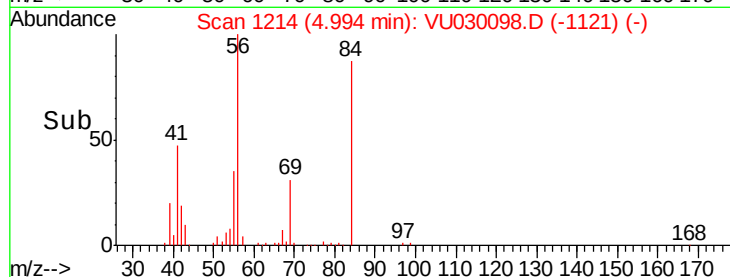
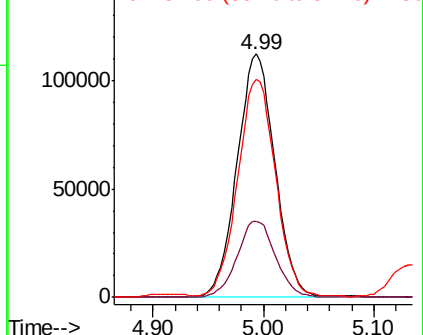
#29
Cyclohexane
Concen: 45.785 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Tgt Ion: 56 Resp: 266879
Ion Ratio Lower Upper
56 100
69 31.9 25.3 37.9
84 89.3 73.5 110.3

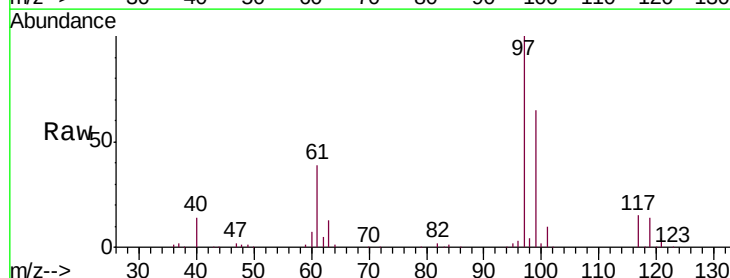


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

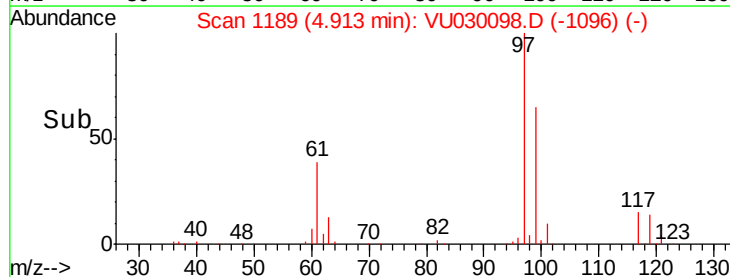
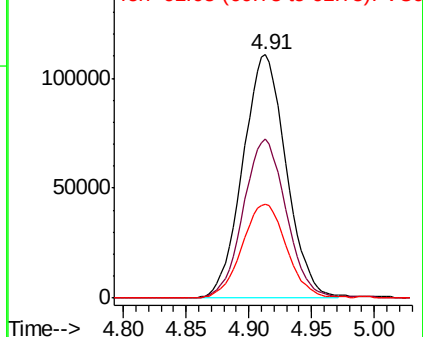


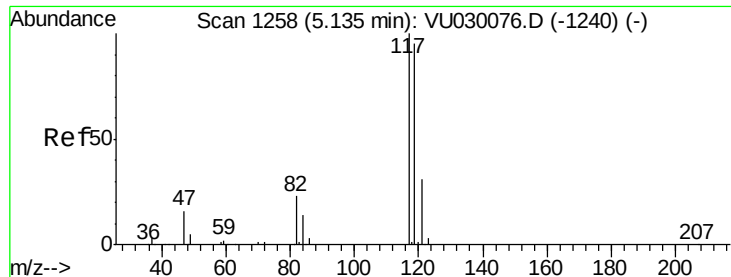
#30
1,1,1-Trichloroethane
Concen: 46.204 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

Tgt Ion: 97 Resp: 266574
Ion Ratio Lower Upper
97 100
99 64.6 52.2 78.2
61 39.6 32.2 48.4



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 46.113 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

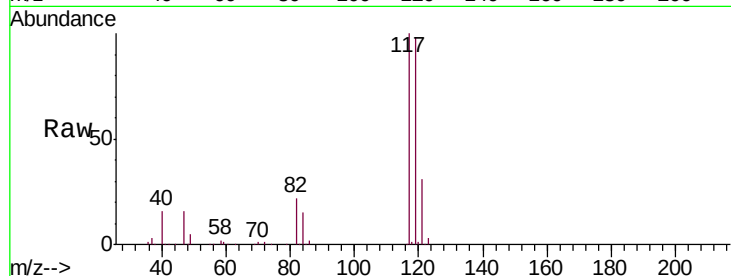
VSTD05038

Tgt Ion:117 Resp: 234930

Ion Ratio Lower Upper

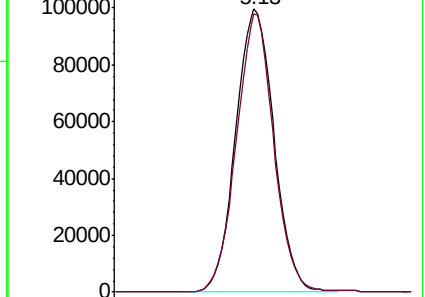
117 100

119 95.4 77.3 115.9

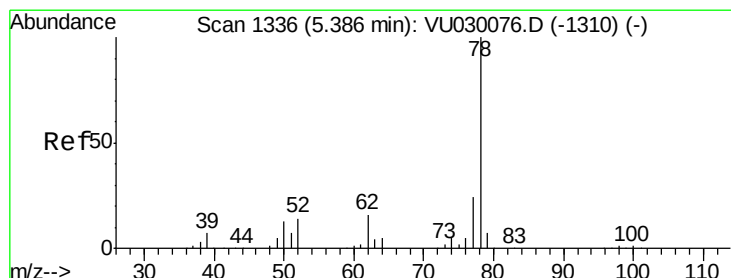
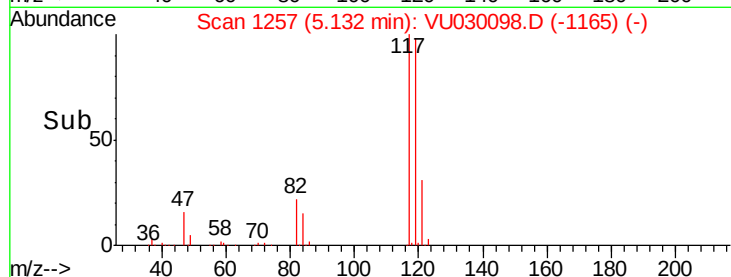


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#33

Benzene

Concen: 46.756 ug/L

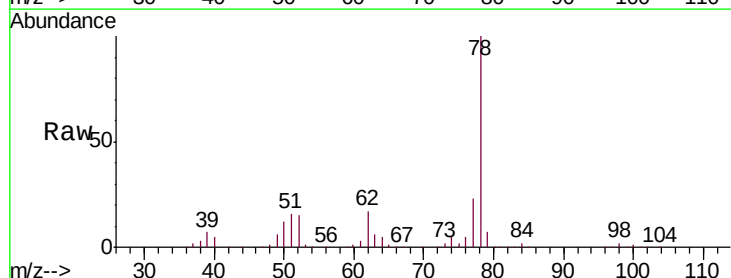
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

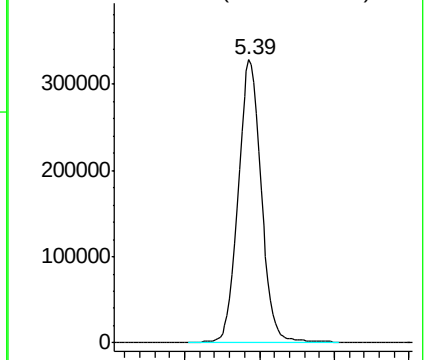
Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

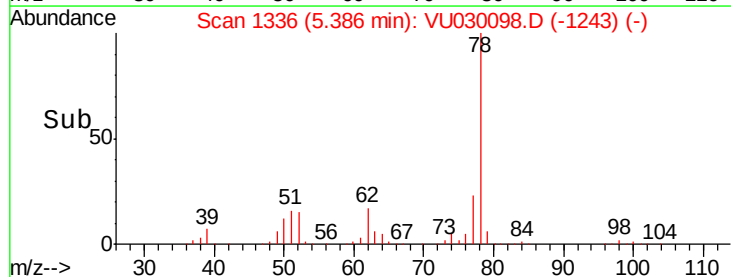
Tgt Ion: 78 Resp: 707086

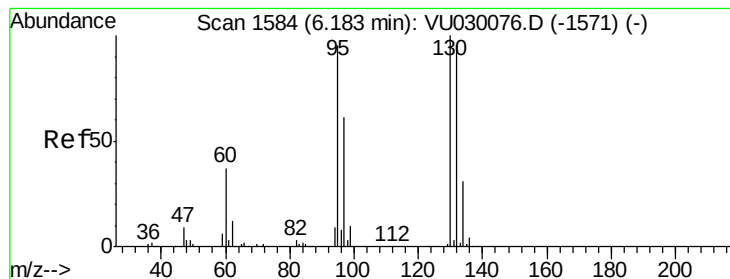


Abundance Ion 78.00 (77.70 to 78.70): VU0



Time-->





#34

Trichloroethene

Concen: 46.797 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

Tgt Ion: 95 Resp: 185482

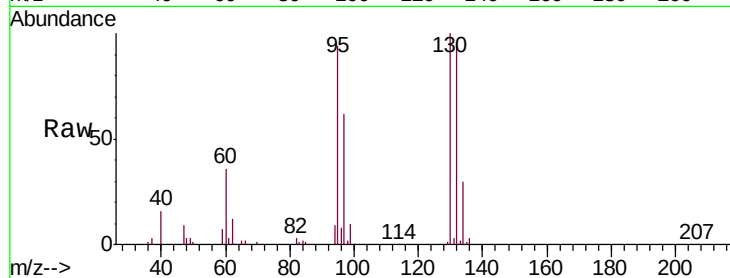
Ion Ratio Lower Upper

95 100

97 65.2 45.5 84.5

132 102.2 71.5 132.7

130 105.9 73.5 136.5

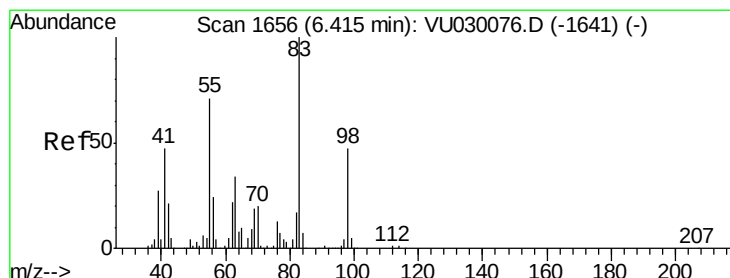
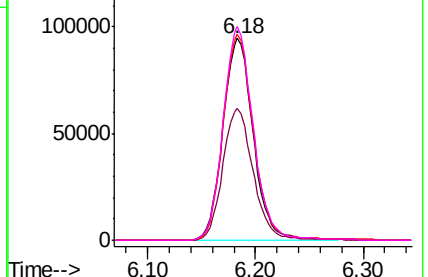
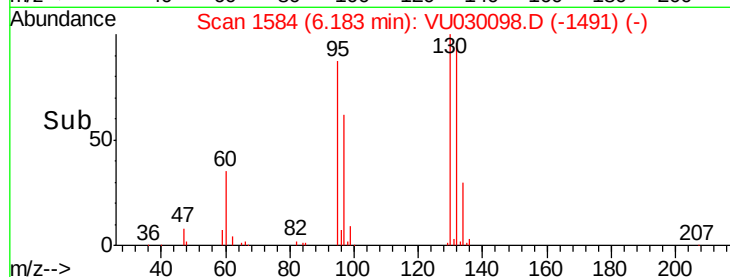


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 47.135 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

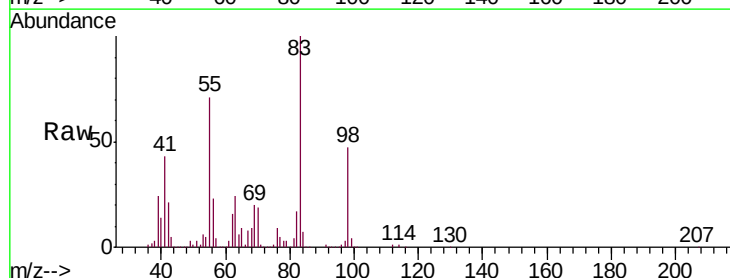
Tgt Ion: 83 Resp: 302953

Ion Ratio Lower Upper

83 100

55 70.8 56.6 84.8

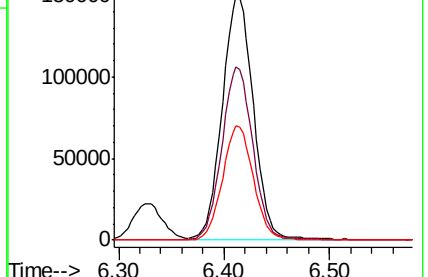
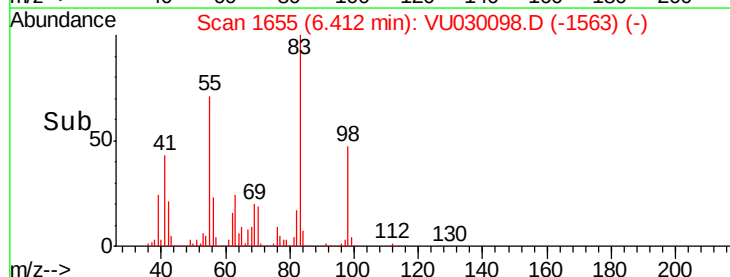
98 46.7 37.8 56.6

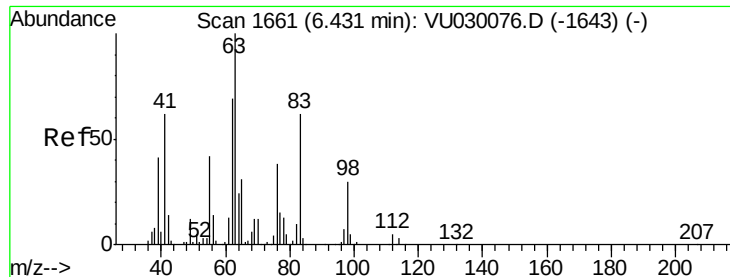


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

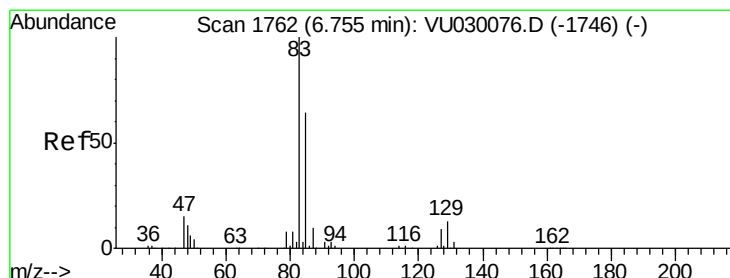
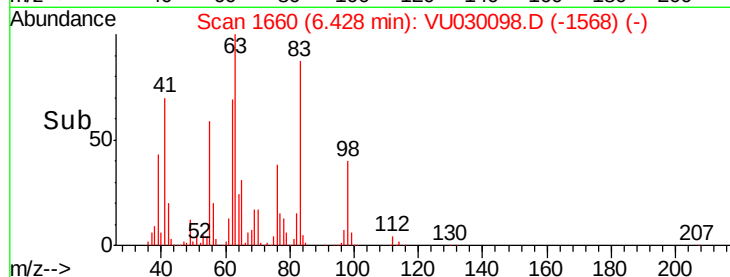
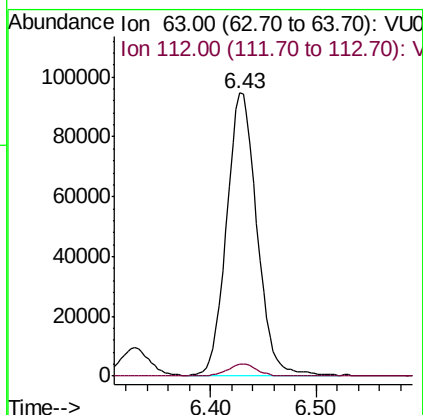
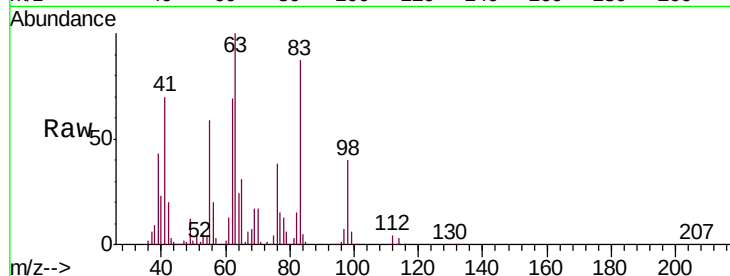




#37
 1,2-Dichloropropane
 Concen: 47.082 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

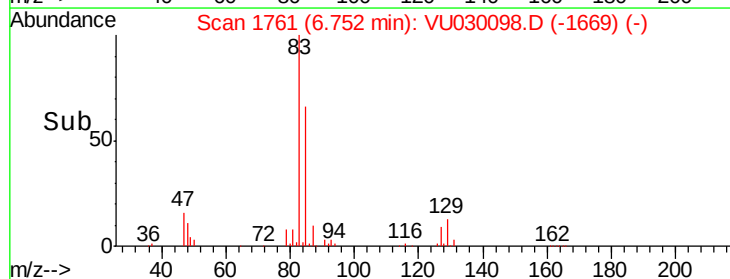
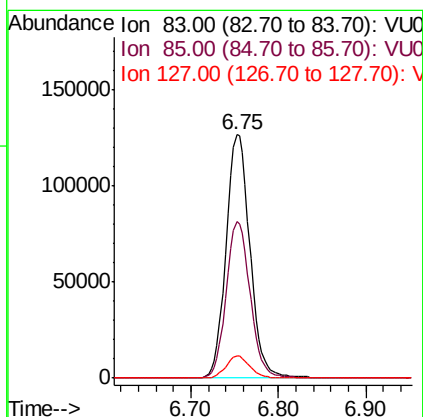
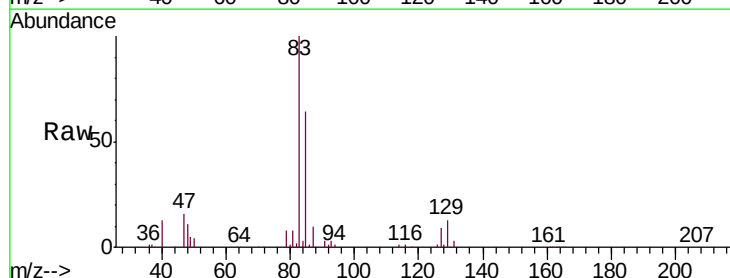
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05038

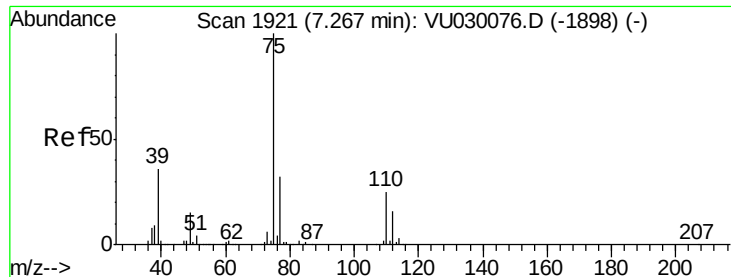
Tgt Ion: 63 Resp: 187288
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.4 5.2



#38
 Bromodichloromethane
 Concen: 48.535 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion: 83 Resp: 240087
 Ion Ratio Lower Upper
 83 100
 85 64.1 45.7 84.9
 127 9.2 7.7 11.5

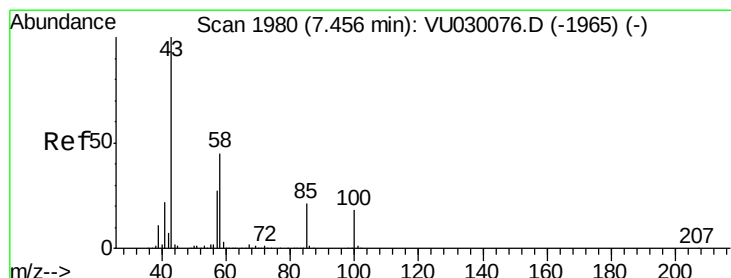
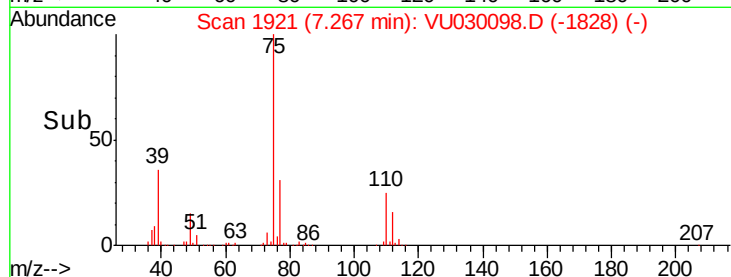
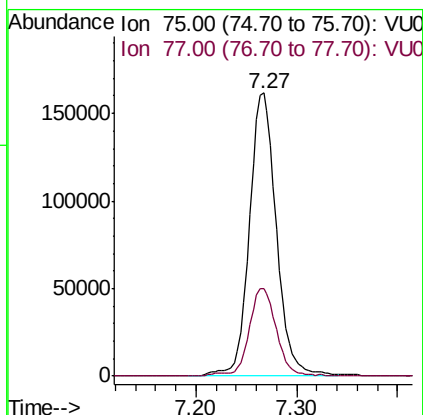
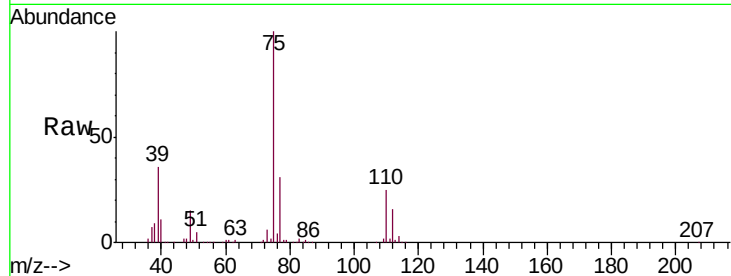




#39
 cis-1,3-Dichloropropene
 Concen: 48.080 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

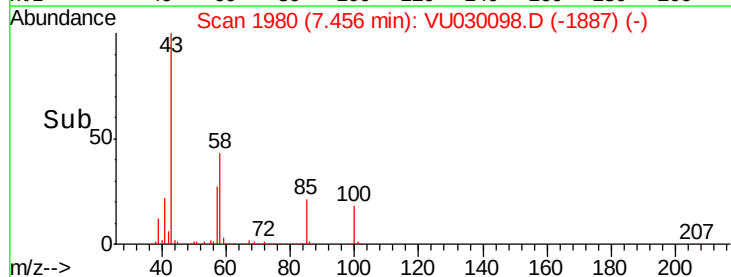
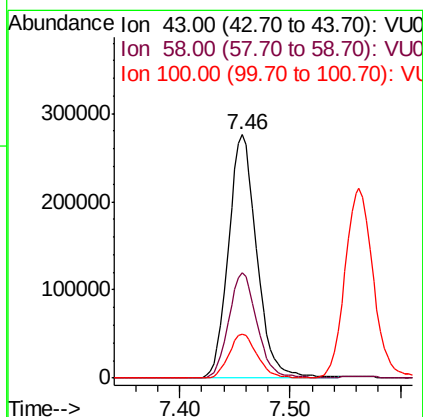
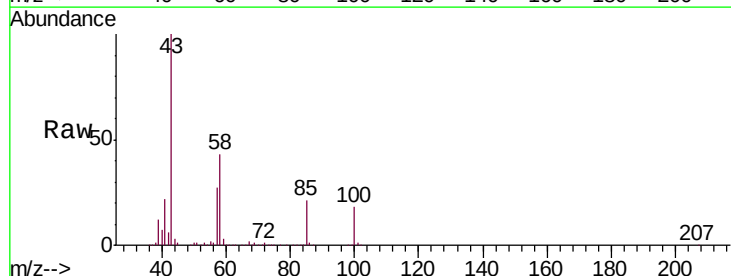
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

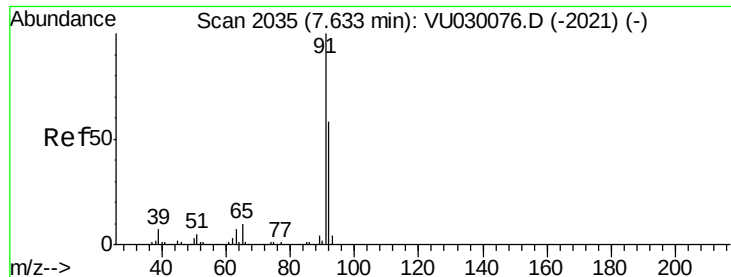
Tgt Ion: 75 Resp: 297635
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 91.628 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion: 43 Resp: 492145
 Ion Ratio Lower Upper
 43 100
 58 43.3 35.1 52.7
 100 18.0 14.4 21.6





#42

Toluene

Concen: 47.091 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

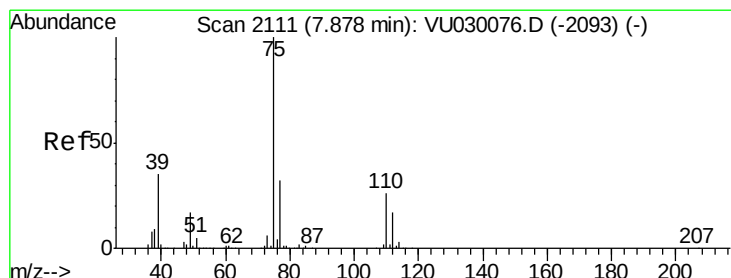
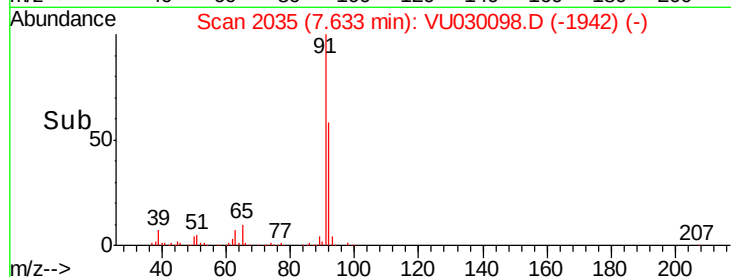
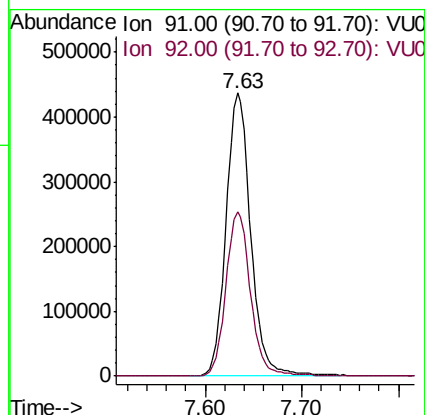
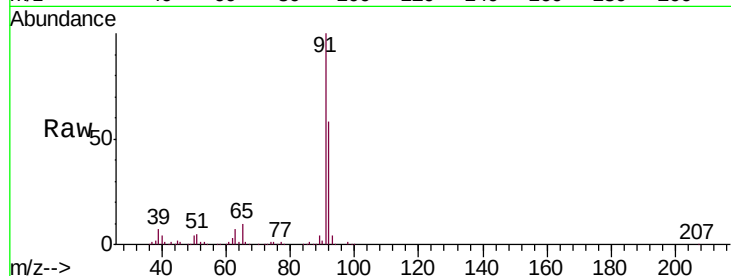
VSTD05038

Tgt Ion: 91 Resp: 774285

Ion Ratio Lower Upper

91 100

92 58.0 40.6 75.4



#44

trans-1,3-Dichloropropene

Concen: 48.103 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030098.D

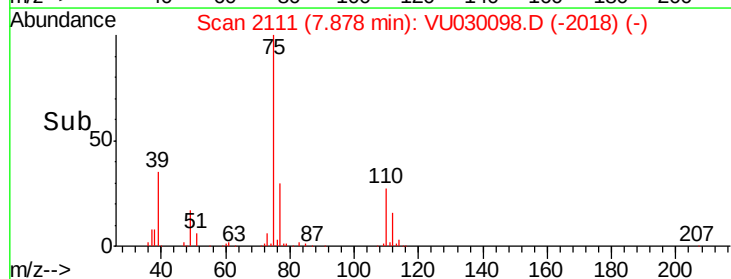
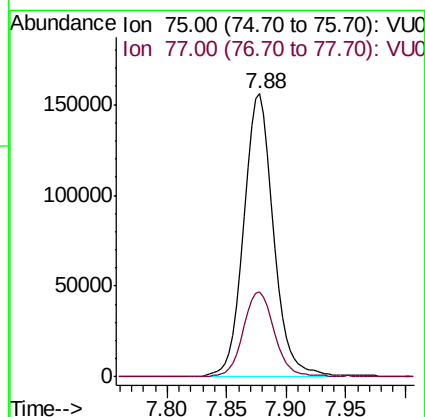
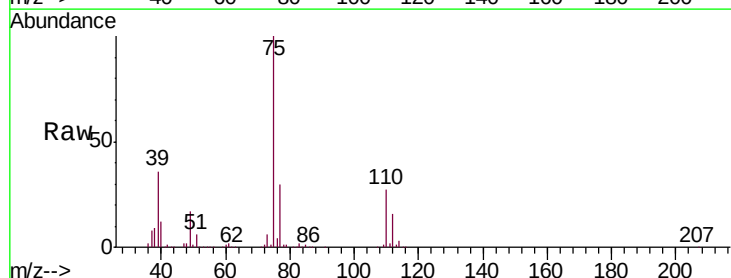
Acq: 15 Mar 2019 10:07

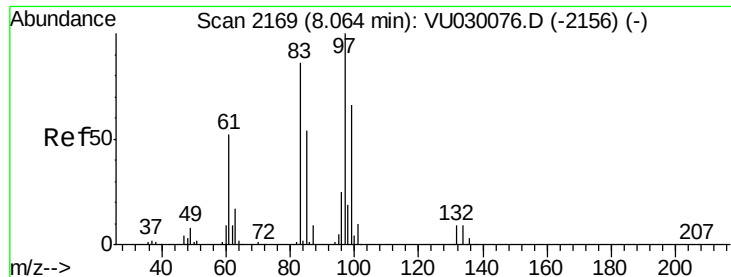
Tgt Ion: 75 Resp: 271886

Ion Ratio Lower Upper

75 100

77 29.9 21.9 40.7

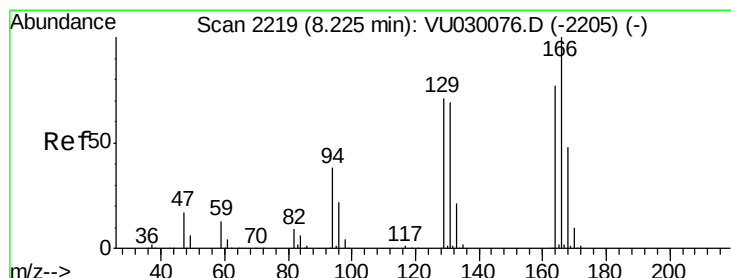
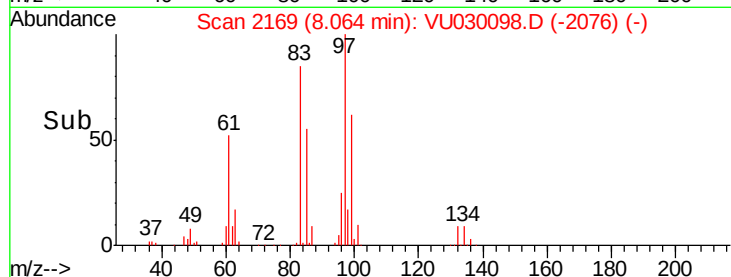
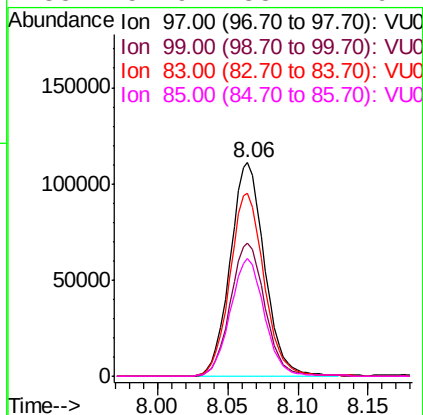
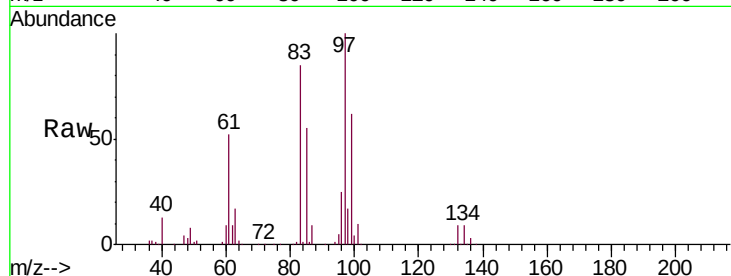




#45
 1,1,2-Trichloroethane
 Concen: 47.568 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

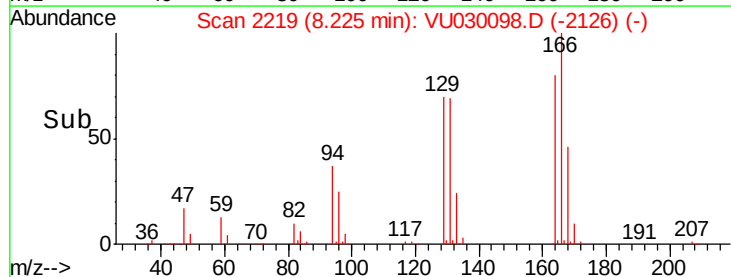
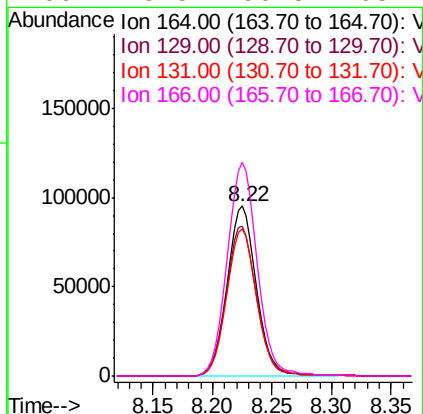
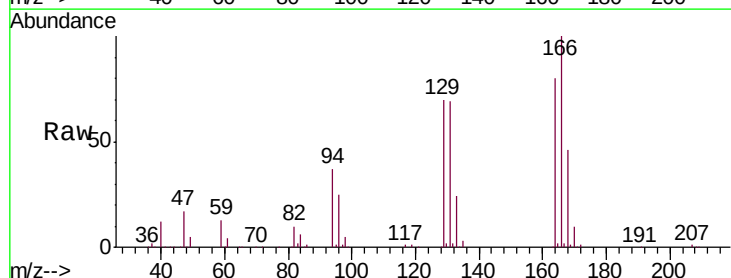
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

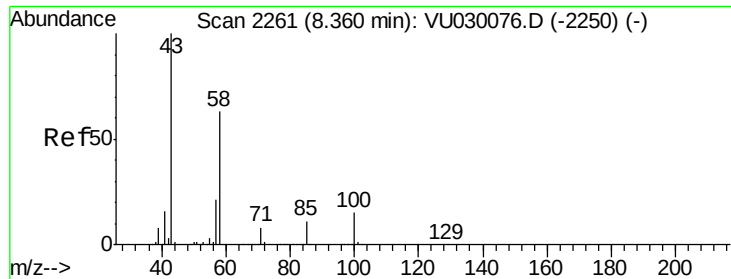
Tgt Ion:	97	Resp:	189234
Ion	Ratio	Lower	Upper
97	100		
99	62.4	44.7	82.9
83	85.5	58.6	108.8
85	54.9	38.1	70.7



#46
 Tetrachloroethene
 Concen: 46.872 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion:	164	Resp:	162582
Ion	Ratio	Lower	Upper
164	100		
129	88.0	63.3	117.7
131	86.4	62.0	115.2
166	125.5	90.5	168.1

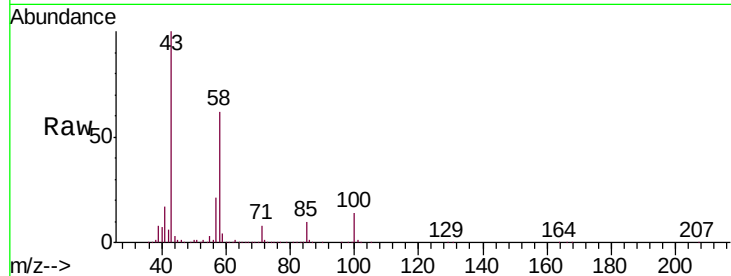




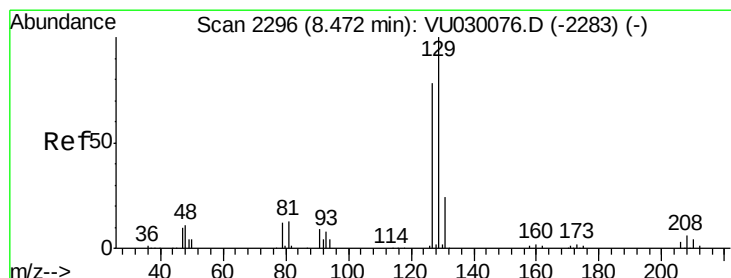
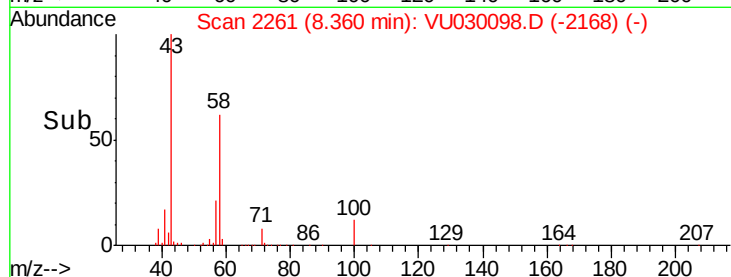
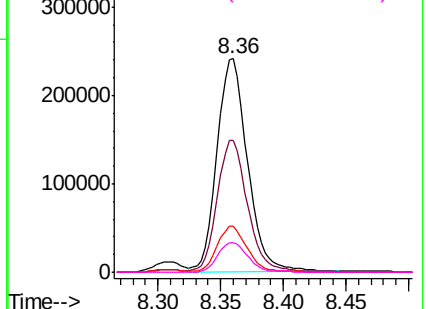
#48
2-Hexanone
Concen: 88.754 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Tgt Ion: 43 Resp: 406689
Ion Ratio Lower Upper
43 100
58 61.6 48.6 72.8
57 21.1 16.1 24.1
100 13.8 11.6 17.4

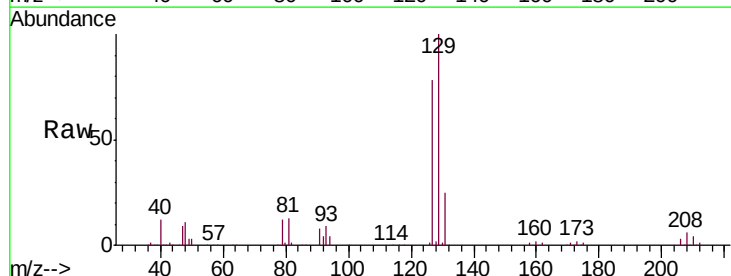


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

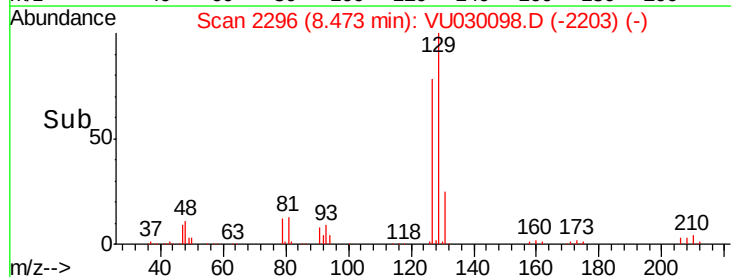
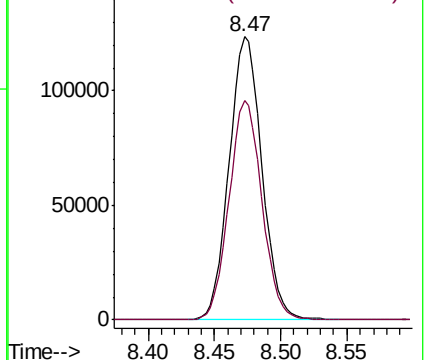


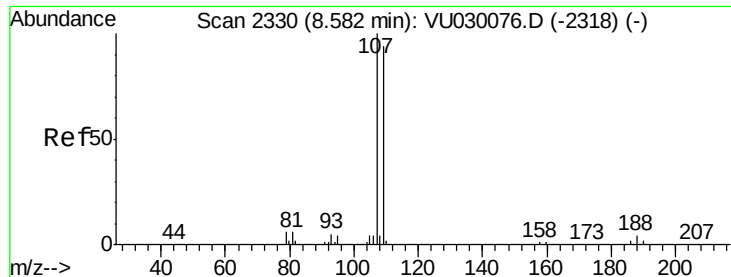
#49
Dibromochloromethane
Concen: 47.870 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030098.D
Acq: 15 Mar 2019 10:07

Tgt Ion: 129 Resp: 212769
Ion Ratio Lower Upper
129 100
127 77.5 55.2 102.4



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

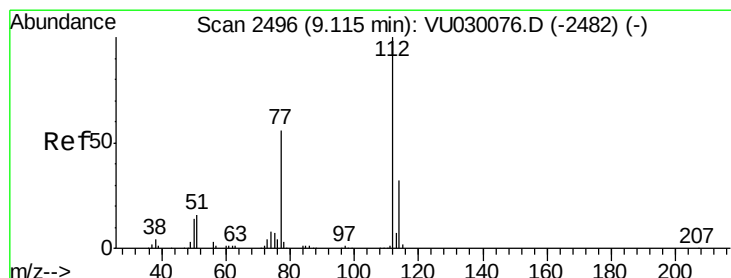
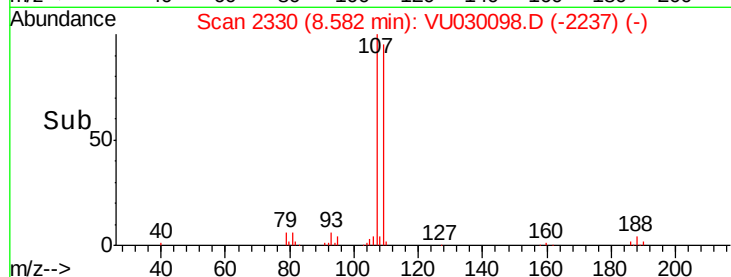
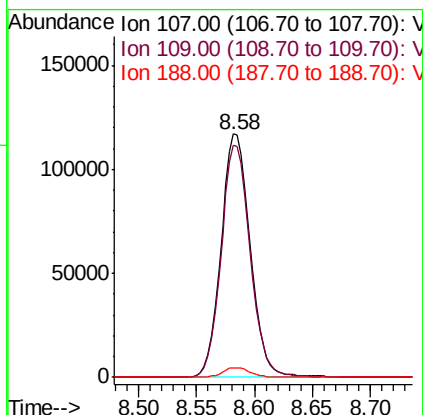
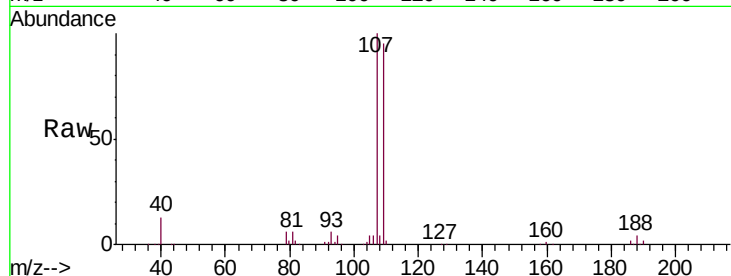




#50
 1,2-Dibromoethane
 Concen: 46.725 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

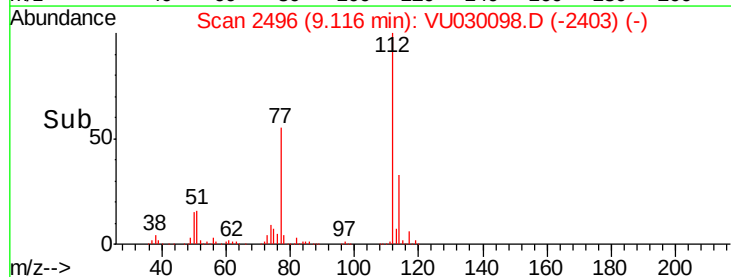
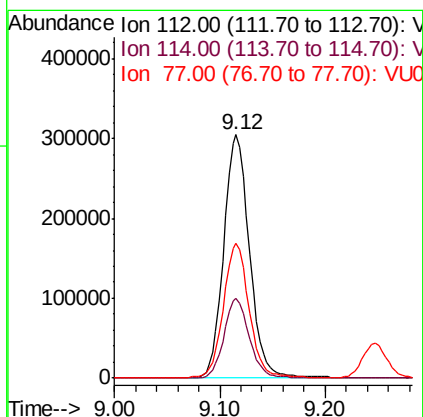
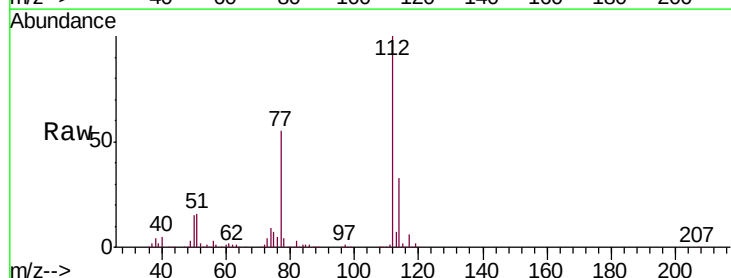
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

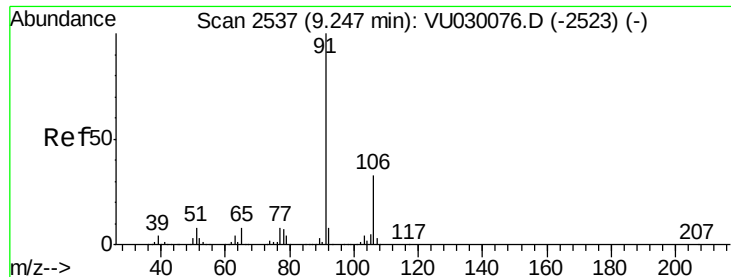
Tgt Ion	Ratio	Resp	Lower	Upper
107	100	204888		
109	95.2	67.8	126.0	
188	4.1	3.2	4.8	



#51
 Chlorobenzene
 Concen: 46.511 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	515581		
114	32.5	22.5	41.9	
77	55.3	44.6	66.8	





#52

Ethylbenzene

Concen: 46.856 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

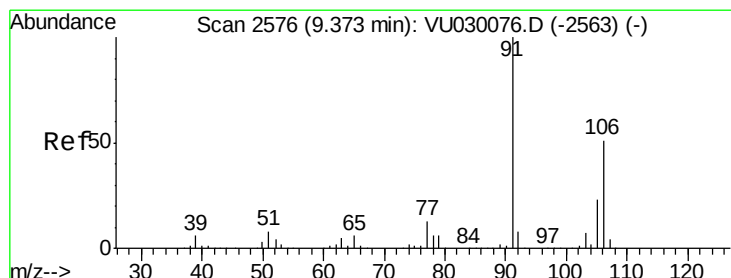
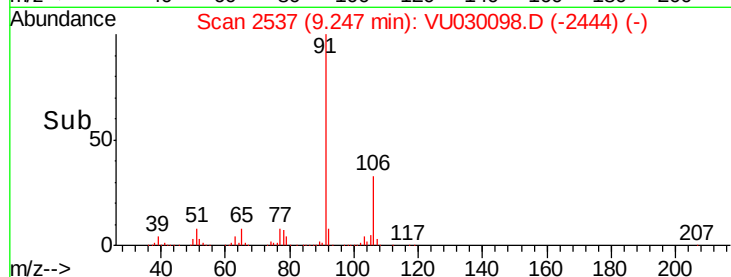
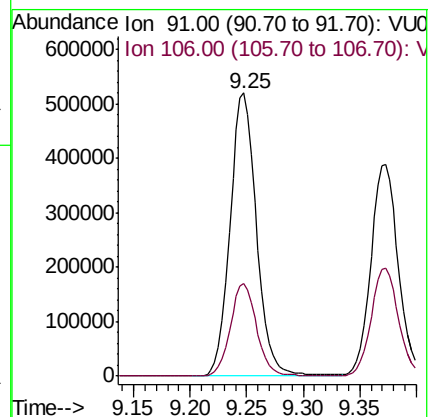
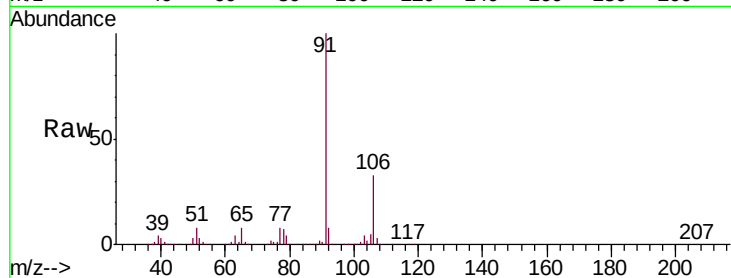
VSTD05038

Tgt Ion: 91 Resp: 848140

Ion Ratio Lower Upper

91 100

106 32.7 22.5 41.9



#53

m,p-Xylene

Concen: 47.615 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030098.D

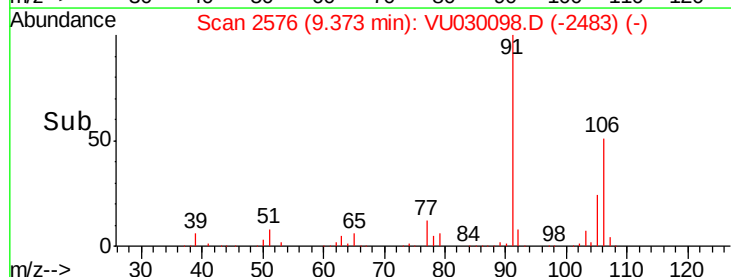
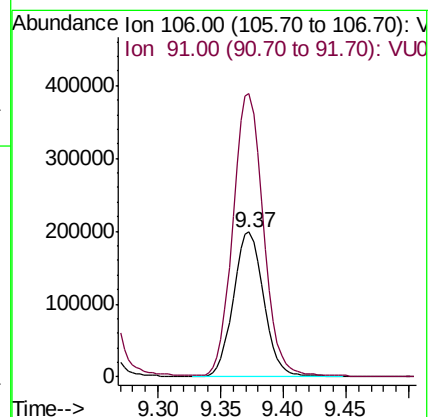
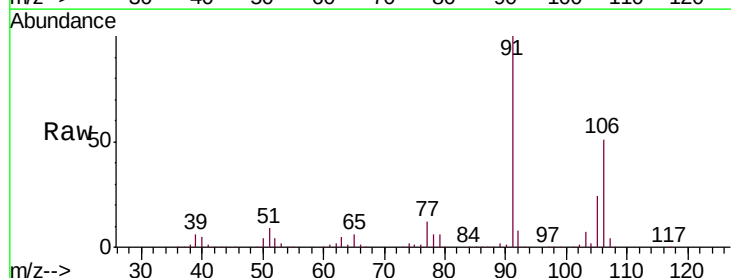
Acq: 15 Mar 2019 10:07

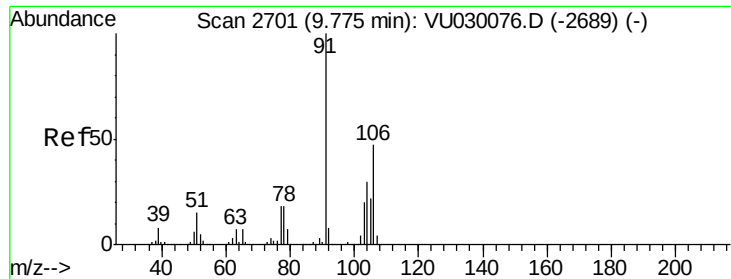
Tgt Ion: 106 Resp: 333460

Ion Ratio Lower Upper

106 100

91 195.4 135.1 250.9





#54

o-xylene

Concen: 47.363 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

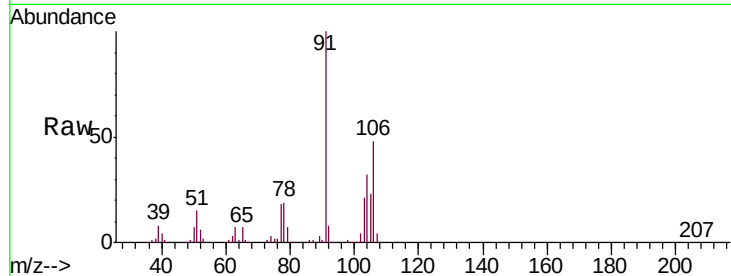
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Tgt Ion:106 Resp: 325800

Ion Ratio Lower Upper

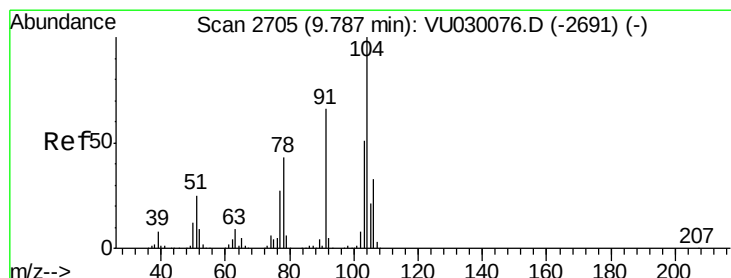
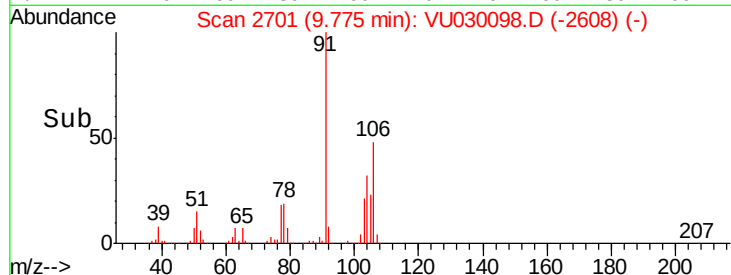
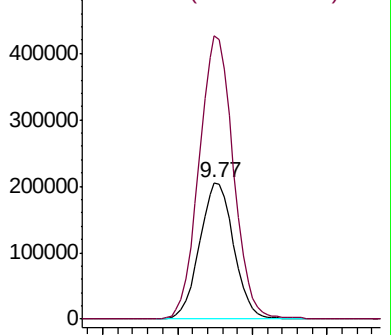
106 100

91 207.3 144.5 268.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 48.729 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030098.D

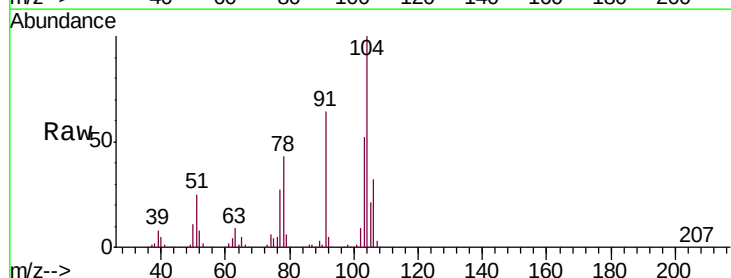
Acq: 15 Mar 2019 10:07

Tgt Ion:104 Resp: 570744

Ion Ratio Lower Upper

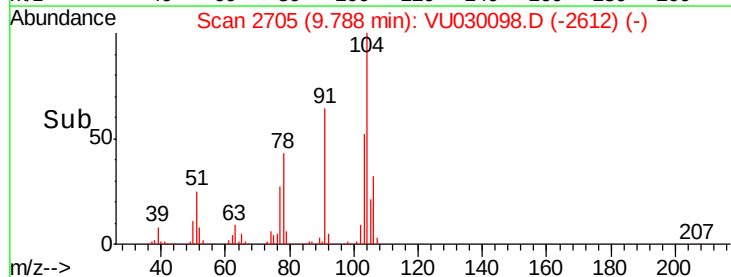
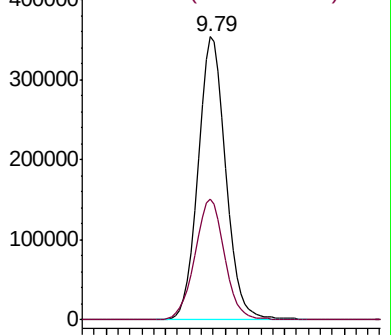
104 100

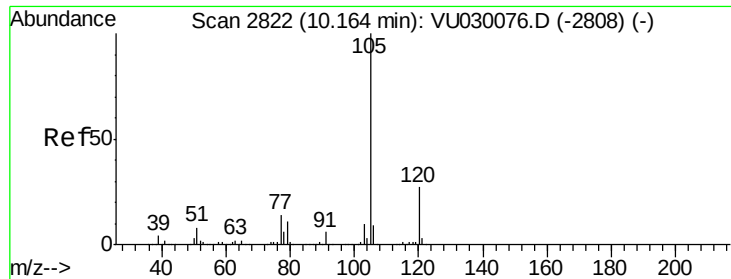
78 42.8 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 47.691 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

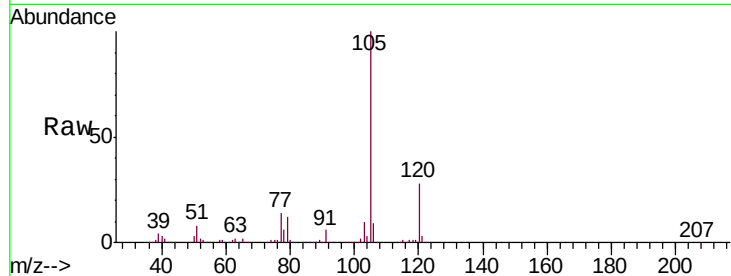
Tgt Ion: 105 Resp: 858838

Ion Ratio Lower Upper

105 100

120 27.4 21.7 32.5

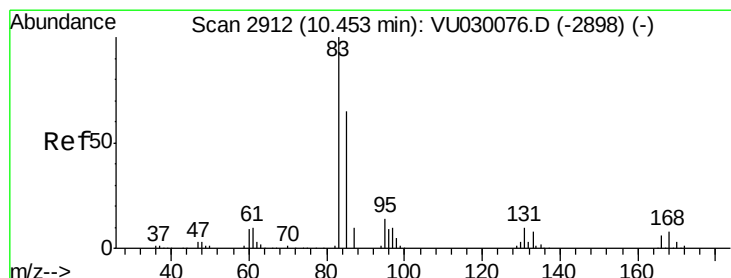
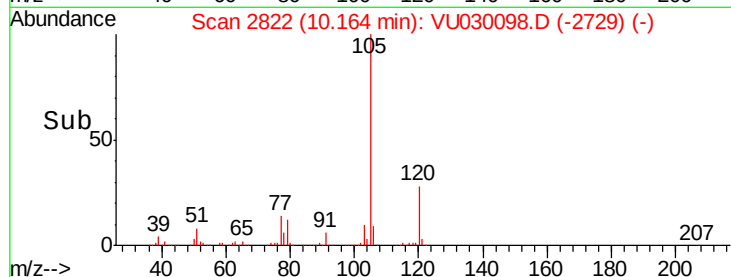
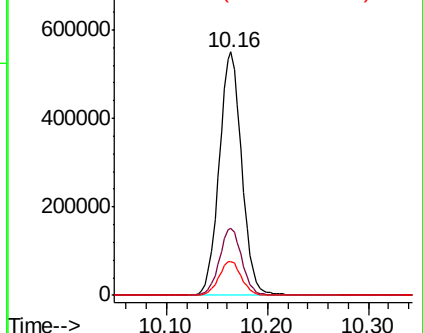
77 14.0 11.1 16.7



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: 46.603 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

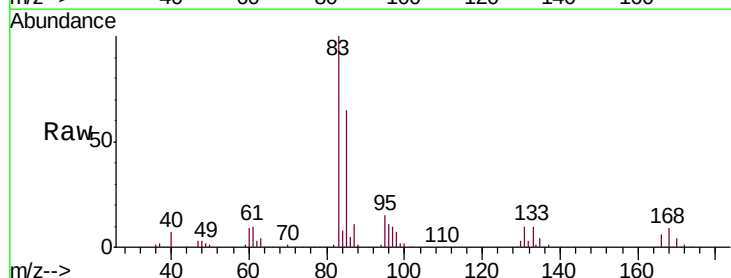
Tgt Ion: 83 Resp: 318205

Ion Ratio Lower Upper

83 100

85 65.3 45.9 85.3

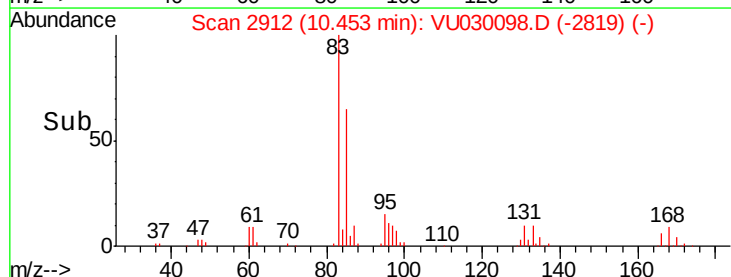
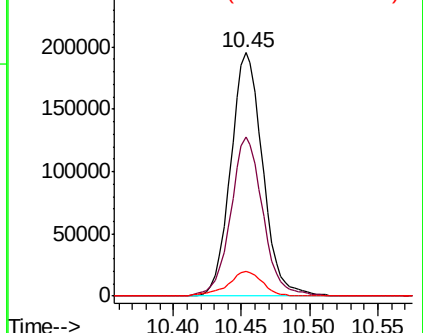
131 10.0 8.5 12.7

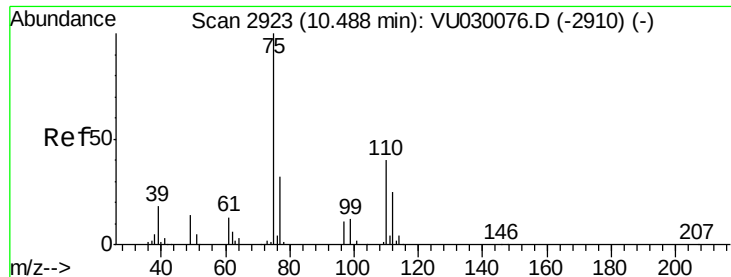


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.242 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

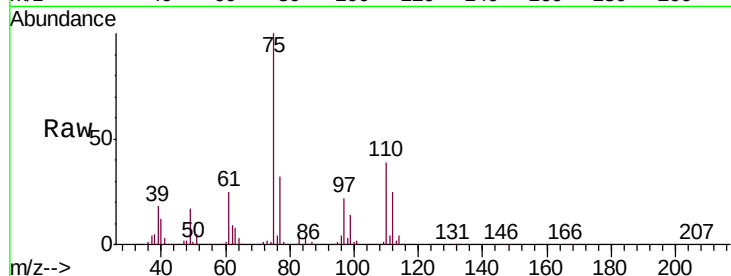
VSTD05038

Tgt Ion: 75 Resp: 239562

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU030076.D (-2910) (-)

Ion 77.00 (76.70 to 77.70): VU030076.D (-2910) (-)

10.49

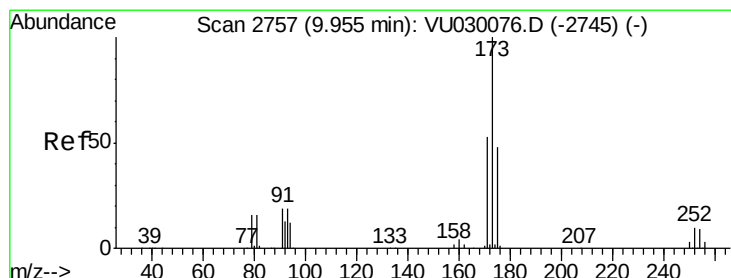
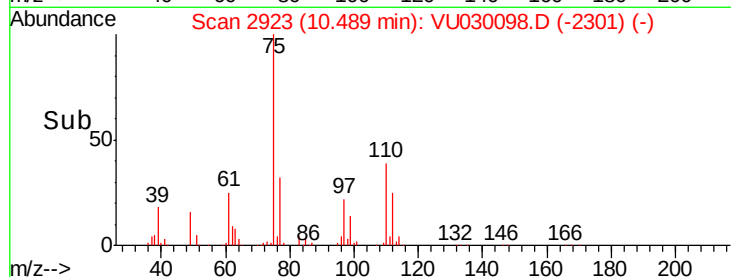
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 48.780 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

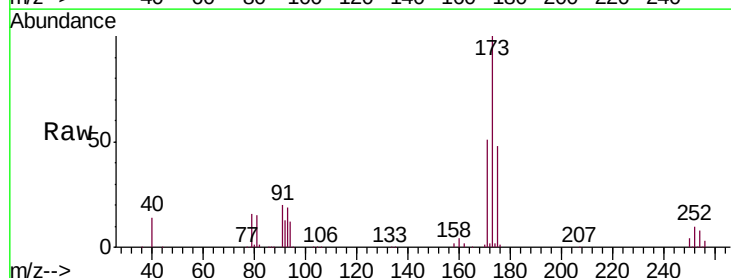
Tgt Ion: 173 Resp: 170764

Ion Ratio Lower Upper

173 100

175 47.9 39.0 58.6

254 8.8 7.4 11.0



Abundance Ion 173.00 (172.70 to 173.70): VU030076.D (-2745) (-)

Ion 175.00 (174.70 to 175.70): VU030076.D (-2745) (-)

Ion 254.00 (253.70 to 254.70): VU030076.D (-2745) (-)

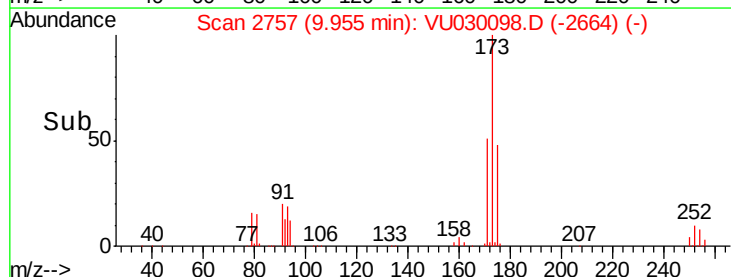
9.95

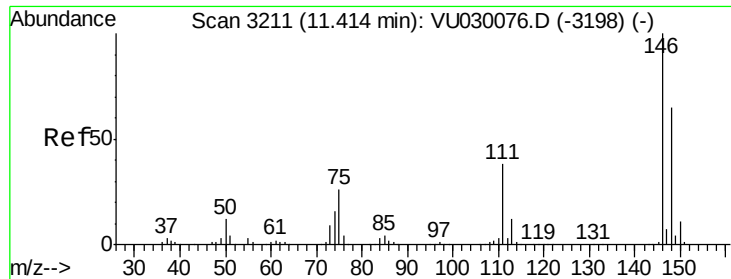
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 46.618 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

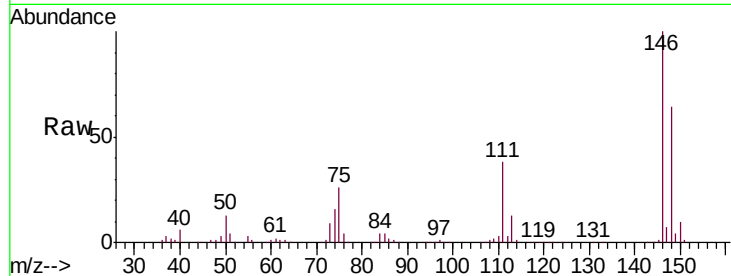
Tgt Ion:146 Resp: 423401

Ion Ratio Lower Upper

146 100

111 38.3 26.7 49.5

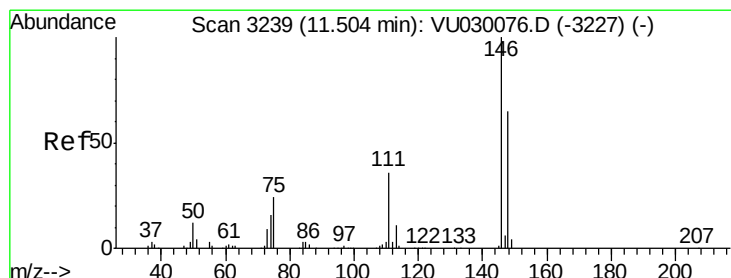
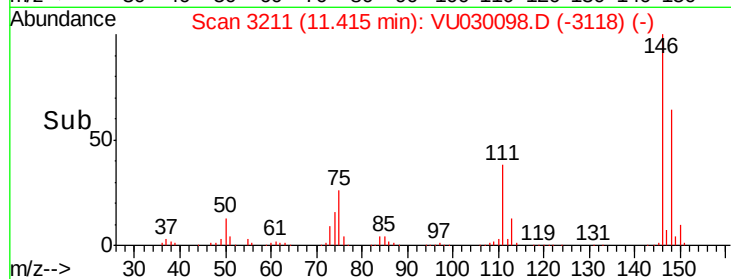
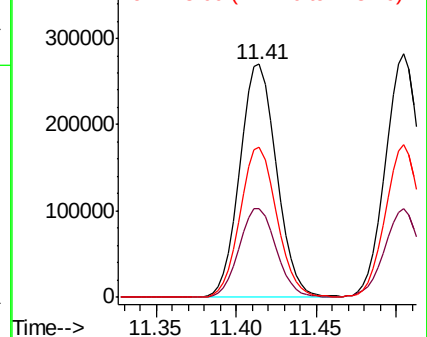
148 64.2 44.9 83.5



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



#63

1,4-Dichlorobenzene

Concen: 47.487 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

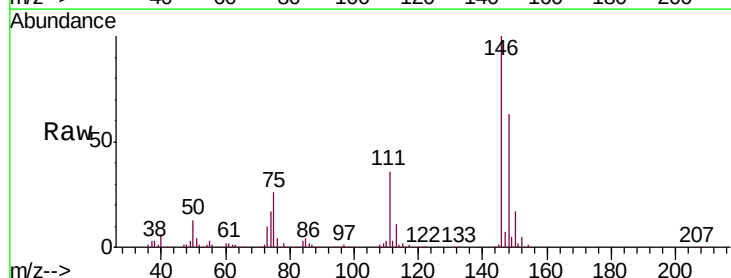
Tgt Ion:146 Resp: 438559

Ion Ratio Lower Upper

146 100

111 36.2 25.5 47.3

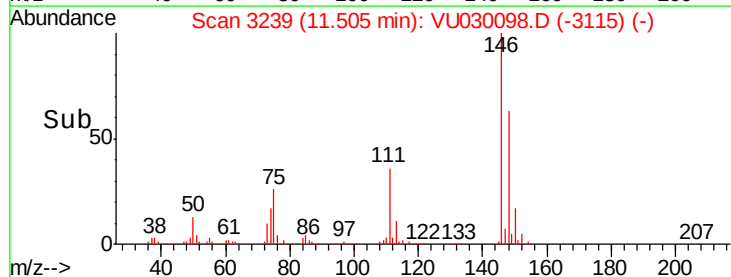
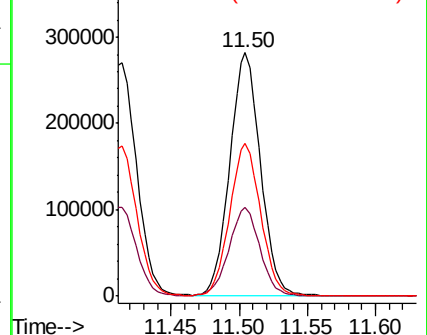
148 62.7 45.0 83.6

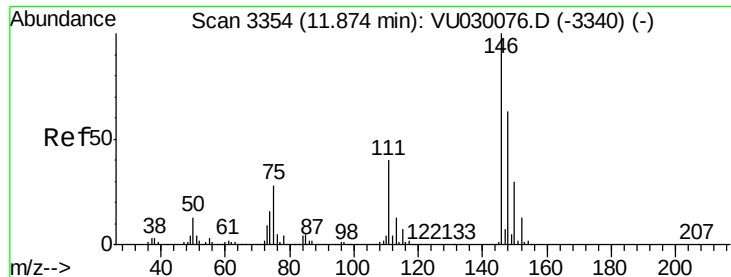


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

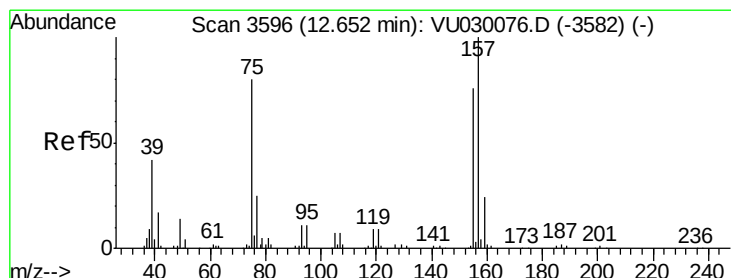
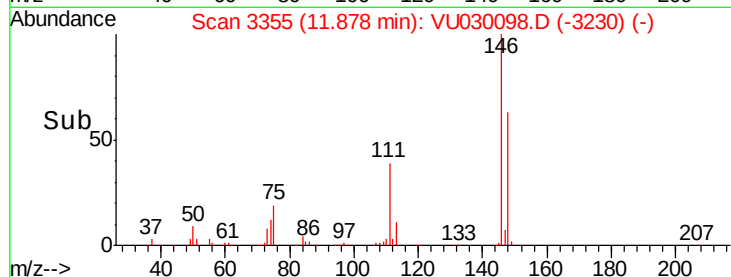
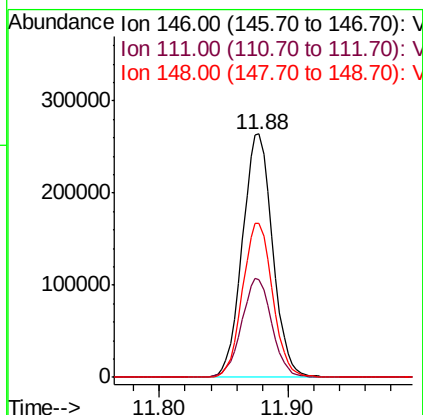
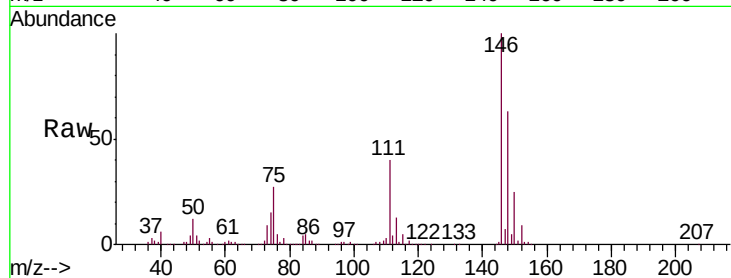




#65
 1,2-Dichlorobenzene
 Concen: 46.988 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

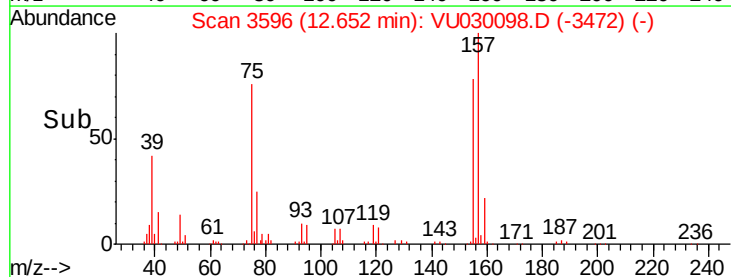
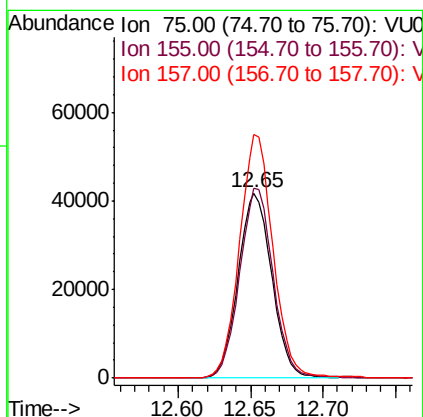
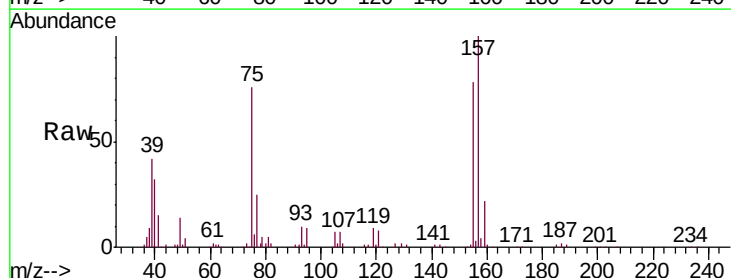
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

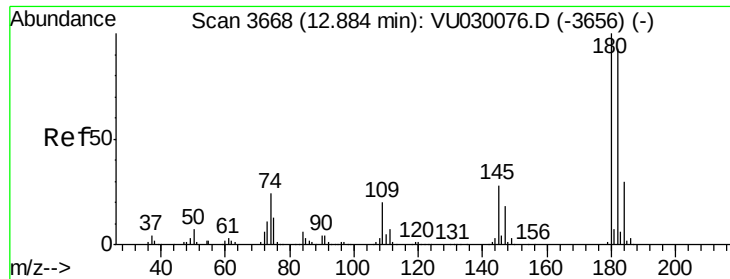
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	30.9	46.3
148	63.2	51.2	76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 45.467 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	102.5	80.9	121.3
157	131.8	104.6	156.8

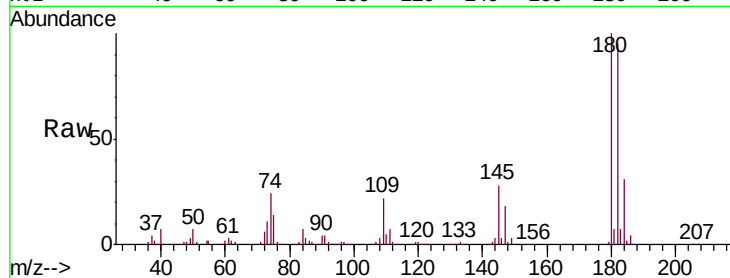




#67
 1,3,5-Trichlorobenzene
 Concen: 48.121 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

Tgt Ion:	180	Resp:	339227
Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.3	114.5
184	30.8	24.7	37.1
145	27.9	22.3	33.5



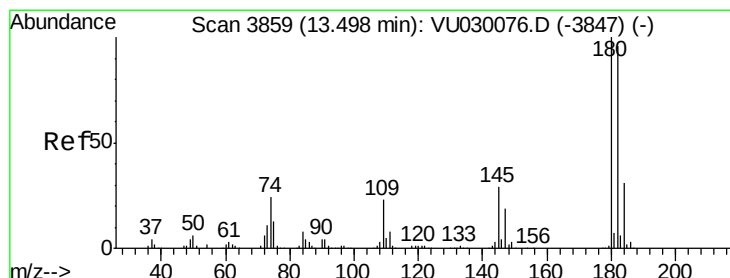
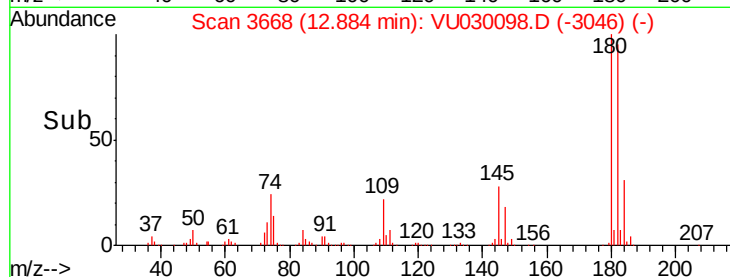
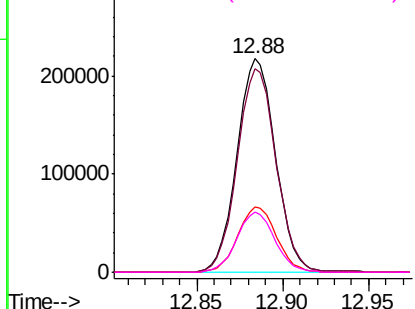
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

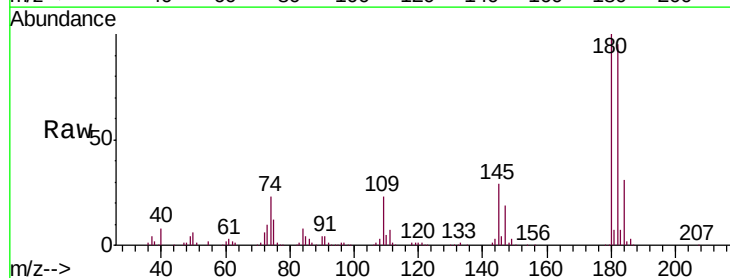
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 48.380 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030098.D
 Acq: 15 Mar 2019 10:07

Tgt Ion:	180	Resp:	311974
Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.1	114.1
145	29.0	23.0	34.4

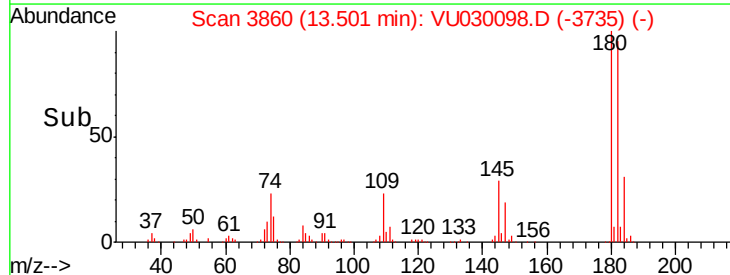
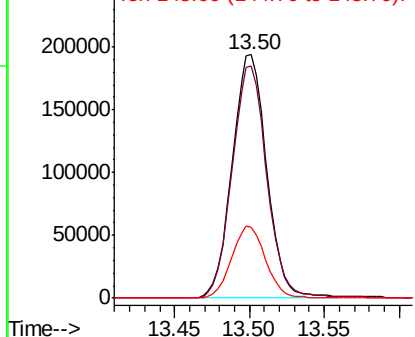


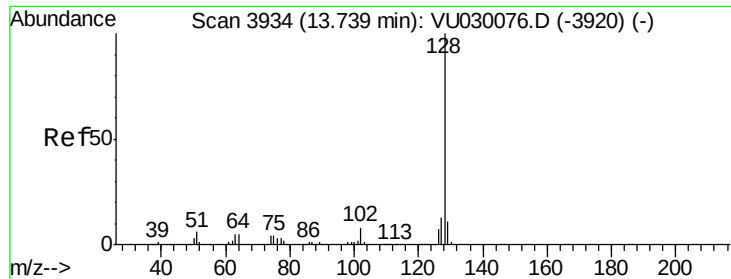
Abundance

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: 46.482 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

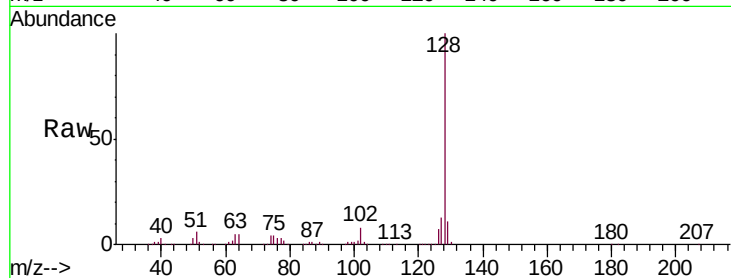
Tgt Ion:128 Resp: 973831

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

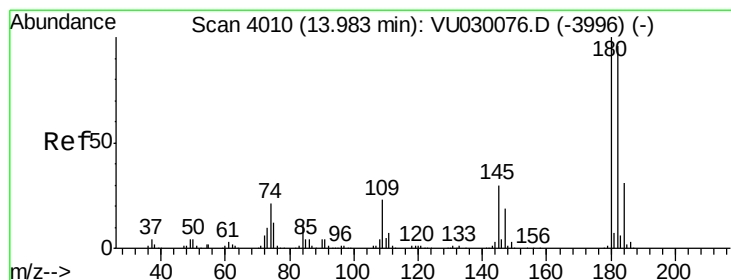
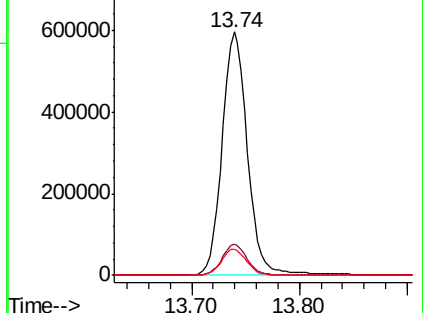
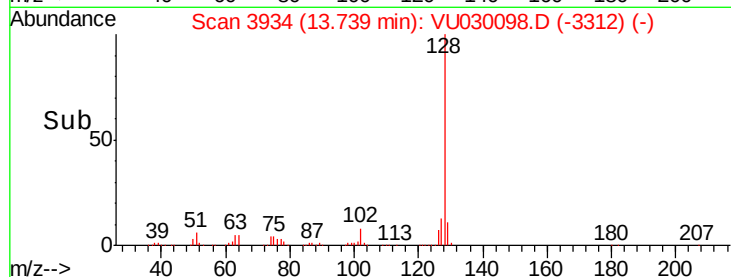
129 10.9 8.7 13.1



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: 47.626 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030098.D

Acq: 15 Mar 2019 10:07

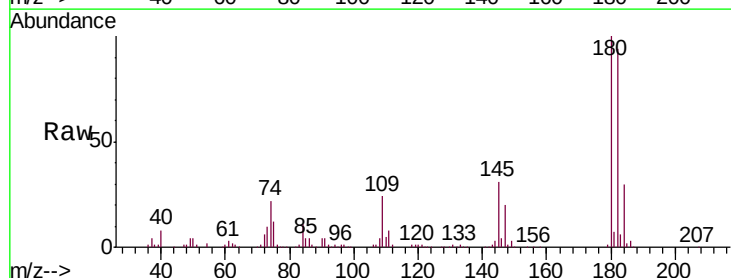
Tgt Ion:180 Resp: 319040

Ion Ratio Lower Upper

180 100

182 95.4 75.9 113.9

145 30.4 24.0 36.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

