

Data File : VU031402.D
Acq On : 22 Apr 2019 19:00
Operator : JC/SP
Sample : VSTD20052
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

Quant Time: Apr 23 03:00:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042319WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Apr 23 02:55:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	739333	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	703835	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	342787	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	1183192	175.26	ug/L	0.00
7) Chloroethane-d5	1.68	69	912411	161.42	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	2050859	156.09	ug/L	0.00
21) 2-Butanone-d5	4.19	46	1929916	398.41	ug/L	0.00
24) Chloroform-d	4.64	84	1917269	174.51	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	1133202	167.88	ug/L	0.00
32) Benzene-d6	5.34	84	4025221	183.26	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	1315157	183.84	ug/L	0.00
41) Toluene-d8	7.56	98	3659679	188.98	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	638790	188.65	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1377007	402.57	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1802293	181.29	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	1392277	178.30	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	1041857	157.309	ug/L	99
3) Chloromethane	1.32	50	1285635	161.232	ug/L	99
5) Vinyl chloride	1.40	62	1298357	162.562	ug/L	99
6) Bromomethane	1.63	94	765281	149.869	ug/L	99
8) Chloroethane	1.70	64	742952	148.814	ug/L	99
9) Trichlorofluoromethane	1.88	101	1572195	145.292	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	915914	158.573	ug/L	99
12) 1,1-Dichloroethene	2.28	96	911484	160.551	ug/L	97
13) Acetone	2.34	43	1297352	338.577	ug/L	100
14) Carbon disulfide	2.47	76	2695378	173.565	ug/L	99
15) Methyl Acetate	2.62	43	1322545	197.814	ug/L	99
16) Methylene chloride	2.70	84	1032598	183.145	ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	952706	179.644	ug/L	100
18) Methyl tert-butyl Ether	3.00	73	3188886	190.982	ug/L	100
19) 1,1-Dichloroethane	3.44	63	1840859	176.464	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	1082677	180.419	ug/L	99
22) 2-Butanone	4.27	43	1948085	380.635	ug/L	96
23) Bromochloromethane	4.54	128	532954	179.139	ug/L	98
25) Chloroform	4.67	83	1778132	170.669	ug/L	96
27) 1,2-Dichloroethane	5.40	62	1327287	167.806	ug/L	97
29) Cyclohexane	4.99	56	1745063	179.795	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	1500509	164.968	ug/L	99
31) Carbon tetrachloride	5.13	117	1300876	165.497	ug/L	100
33) Benzene	5.39	78	4070340	174.723	ug/L	100
34) Trichloroethene	6.18	95	1038039	176.247	ug/L	99
35) Methylcyclohexane	6.41	83	1638993	186.453	ug/L	98
37) 1,2-Dichloropropane	6.43	63	1108673	178.356	ug/L	100
38) Bromodichloromethane	6.75	83	1366501	174.208	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	1746237	186.379	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	3396159	384.457	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	4306322	183.357	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	1516566	188.419	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	1010273	180.675	ug/L	100
46) Tetrachloroethene	8.22	164	791433	179.301	ug/L	98
48) 2-Hexanone	8.37	43	2695083	384.145	ug/L	99
49) Dibromochloromethane	8.47	129	1123952	186.200	ug/L	99
50) 1,2-Dibromoethane	8.58	107	1098978	185.302	ug/L	99
51) Chlorobenzene	9.12	112	2654674	181.368	ug/L	99
52) Ethylbenzene	9.25	91	4712113	184.788	ug/L	99
53) m,p-Xylene	9.37	106	1757853	194.587	ug/L	97
54) o-xylene	9.77	106	1738554	189.787	ug/L	99
55) Styrene	9.79	104	3006457	195.936	ug/L	98
56) Isopropylbenzene	10.16	105	4544118	193.594	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.46	83	1734606	179.769	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	1347964	181.418	ug/L	100
61) Bromoform	9.95	173	876110	186.627	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	2079057	184.122	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	2118052	187.715	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	2088219	176.366	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	387225	170.878	ug/L	94
67) 1,3,5-Trichlorobenzene	12.88	180	1621078	192.153	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	1463219	215.159	ug/L	98
69) Naphthalene	13.74	128	4809566	222.506	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	1455970	196.554	ug/L	99

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

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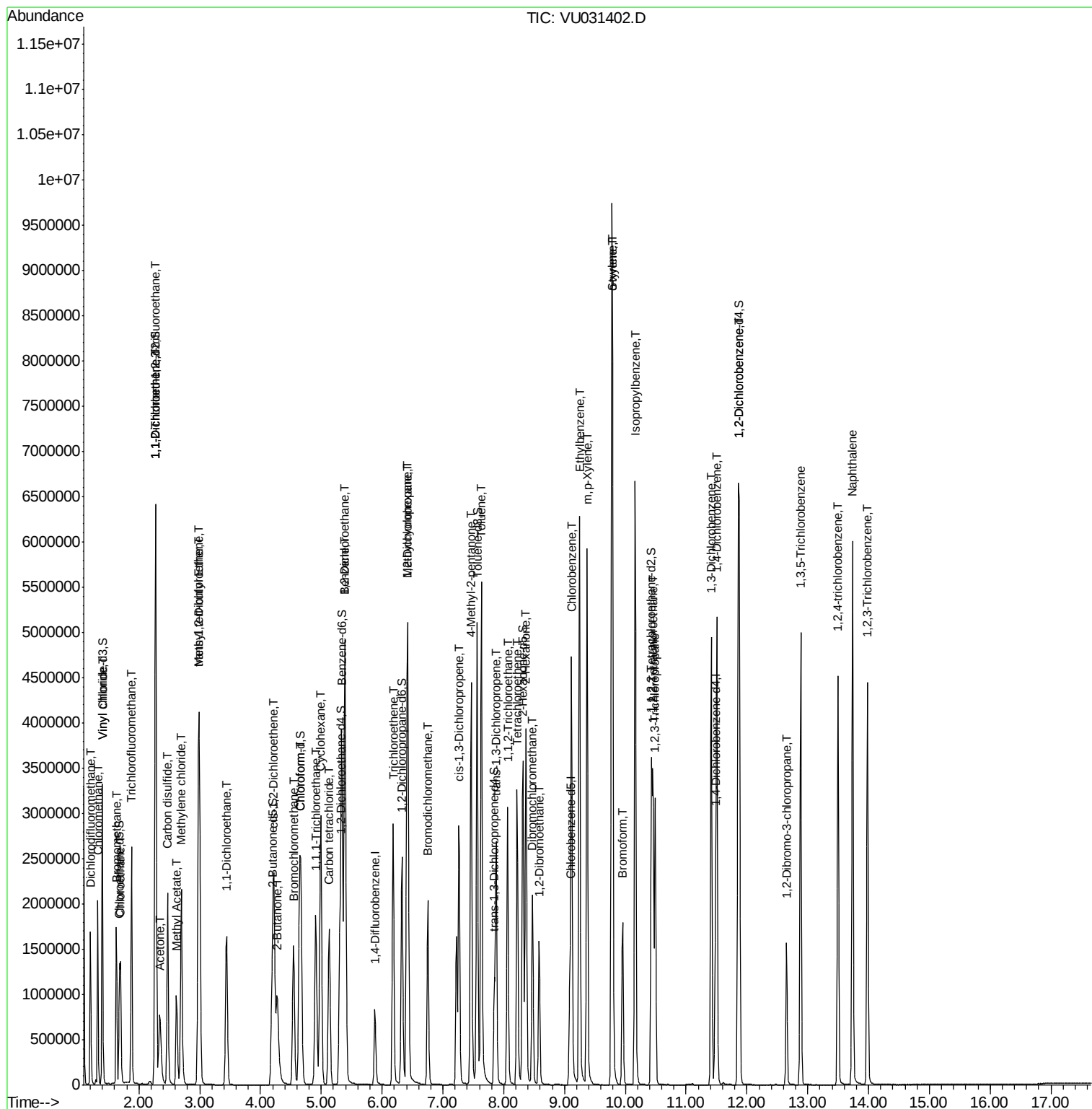
Quant Time: Apr 23 03:00:14 2019

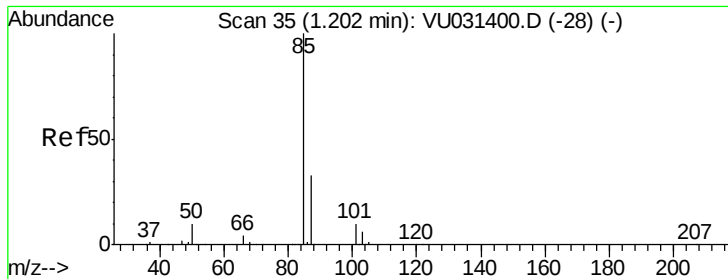
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMULM042319WMA.M

Quant Title : VOC Analysis

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 157.309 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

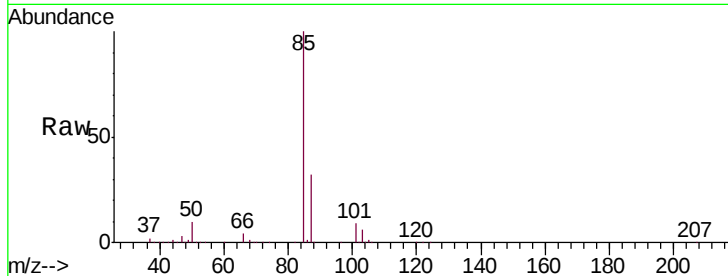
VSTD20052

Tgt Ion: 85 Resp: 1041857

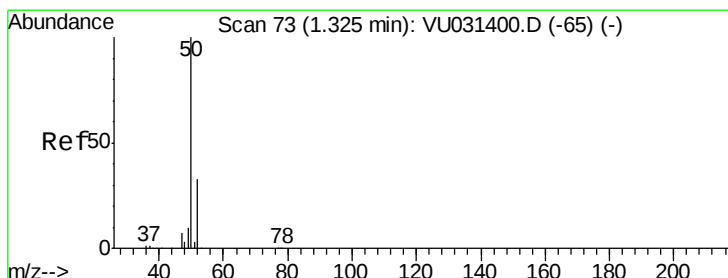
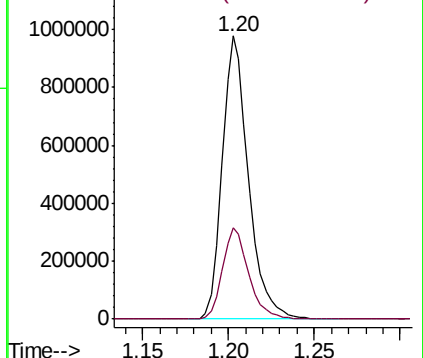
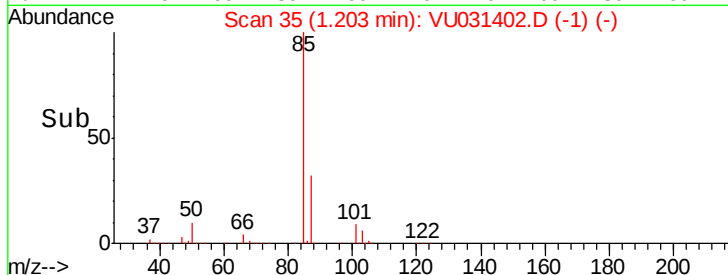
Ion Ratio Lower Upper

85 100

87 32.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031402.D (-1) (-)



#3

Chloromethane

Concen: 161.232 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031402.D

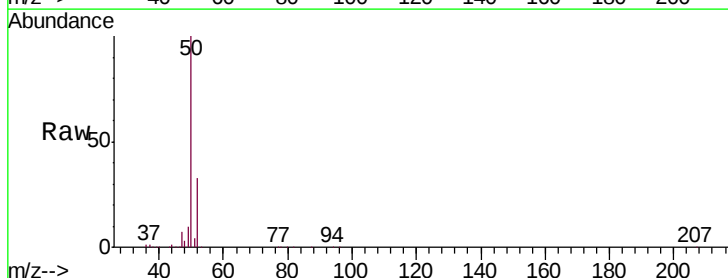
Acq: 22 Apr 2019 19:00

Tgt Ion: 50 Resp: 1285635

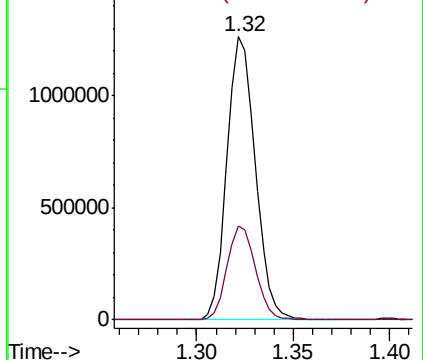
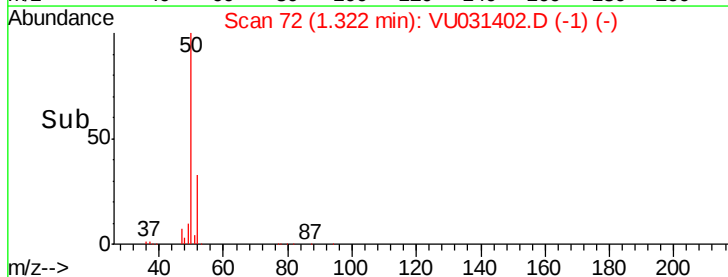
Ion Ratio Lower Upper

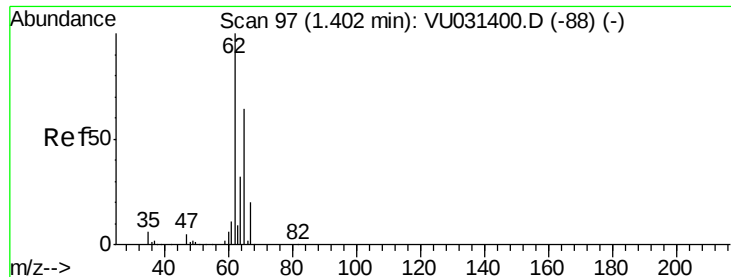
50 100

52 33.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031402.D (-1) (-)





#5

Vinyl chloride

Concen: 162.562 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

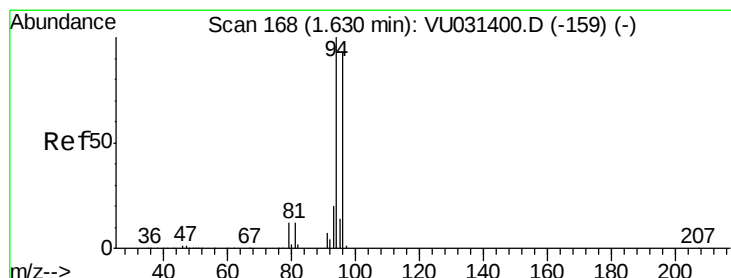
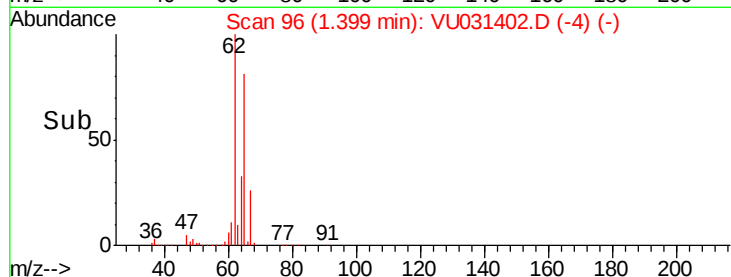
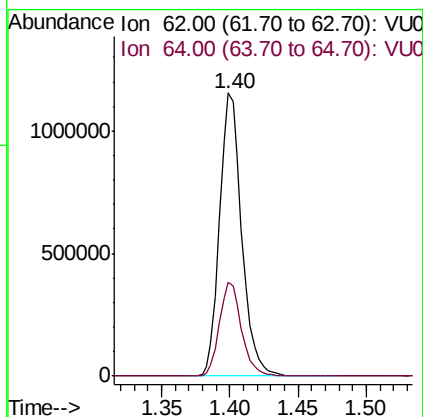
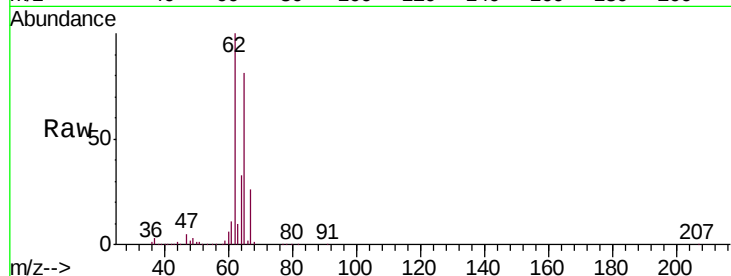
VSTD20052

Tgt Ion: 62 Resp: 1298357

Ion Ratio Lower Upper

62 100

64 33.1 22.7 42.3



#6

Bromomethane

Concen: 149.869 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031402.D

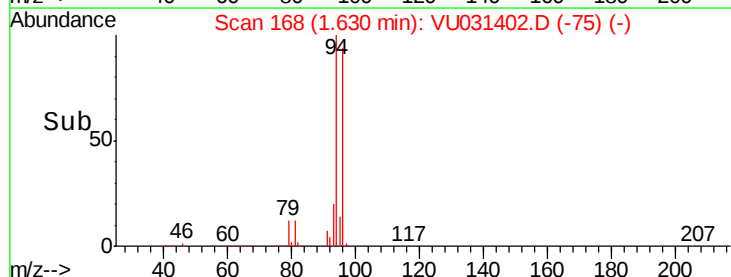
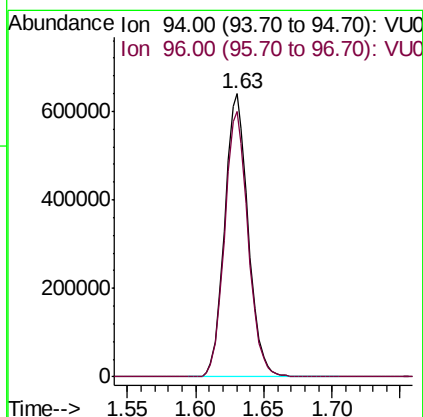
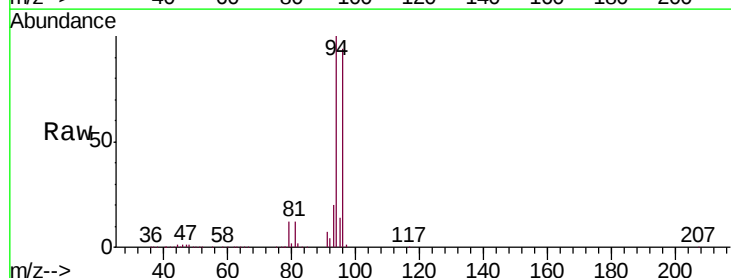
Acq: 22 Apr 2019 19:00

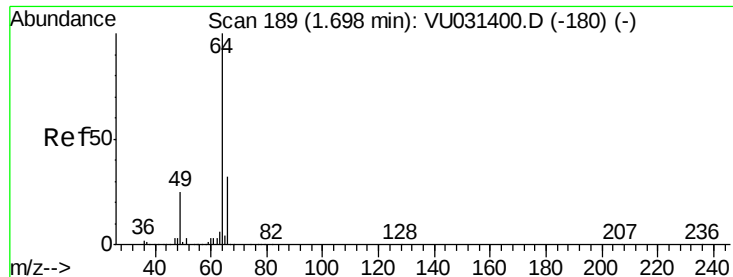
Tgt Ion: 94 Resp: 765281

Ion Ratio Lower Upper

94 100

96 93.8 65.1 120.9





#8

Chloroethane

Concen: 148.814 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

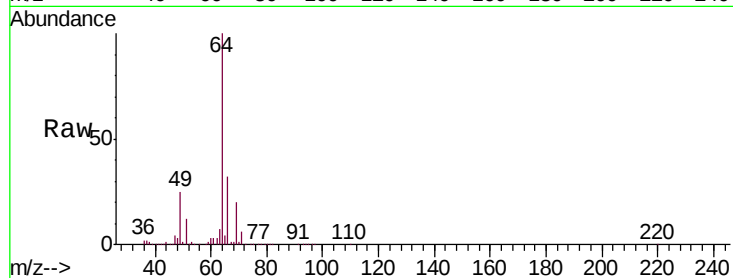
VSTD20052

Tgt Ion: 64 Resp: 742952

Ion Ratio Lower Upper

64 100

66 32.2 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU031402.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU031402.D (-180) (-)

1.70

600000

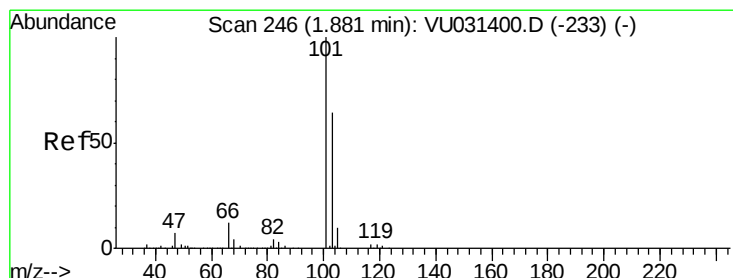
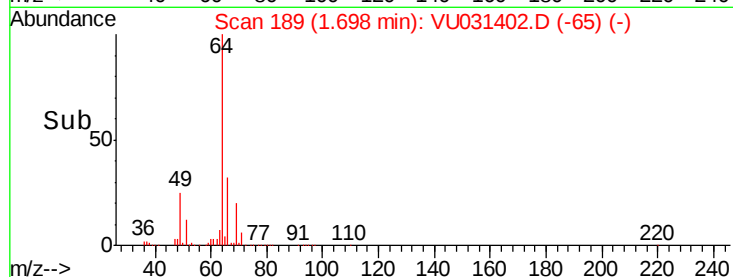
400000

200000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 145.292 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.00 min

Lab File: VU031402.D

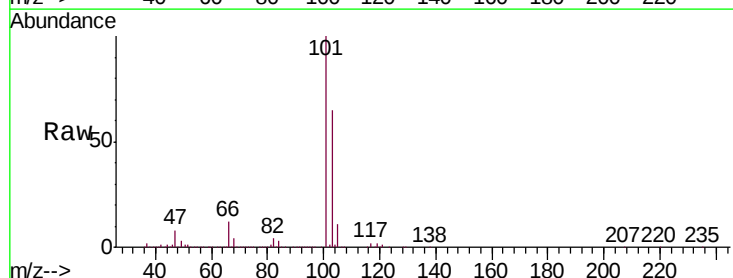
Acq: 22 Apr 2019 19:00

Tgt Ion: 101 Resp: 1572195

Ion Ratio Lower Upper

101 100

103 64.7 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU031402.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU031402.D (-233) (-)

1.88

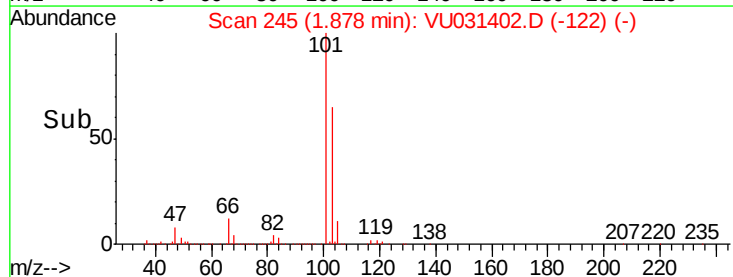
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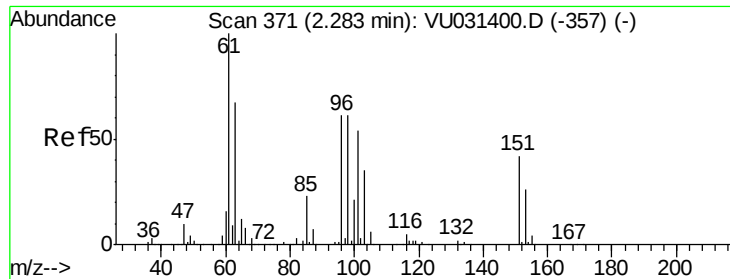
500000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 158.573 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

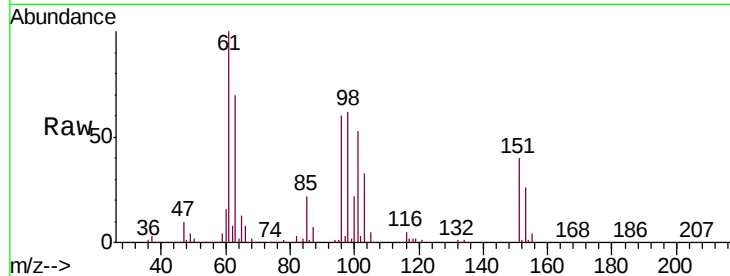
Tgt Ion: 101 Resp: 915914

Ion Ratio Lower Upper

101 100

85 41.6 33.1 49.7

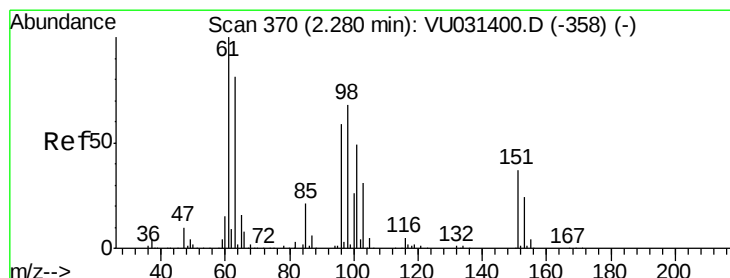
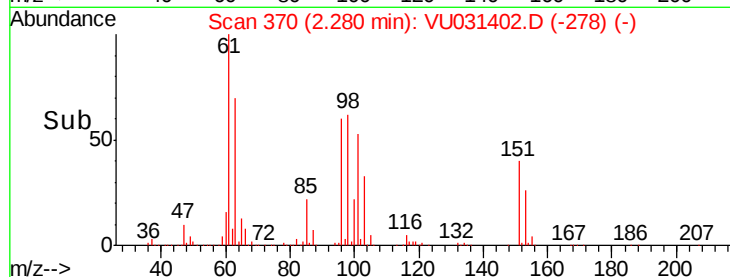
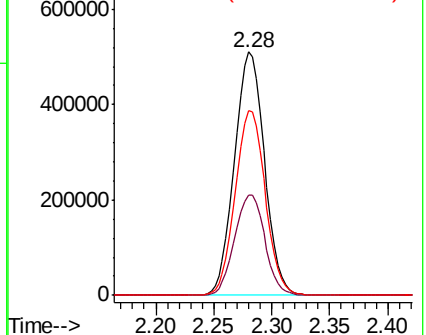
151 76.0 61.4 92.0



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: 160.551 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

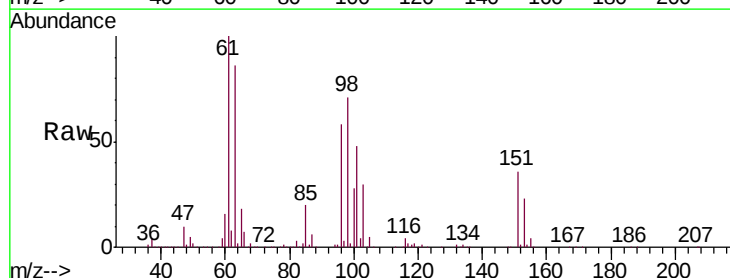
Tgt Ion: 96 Resp: 911484

Ion Ratio Lower Upper

96 100

61 171.6 118.9 220.9

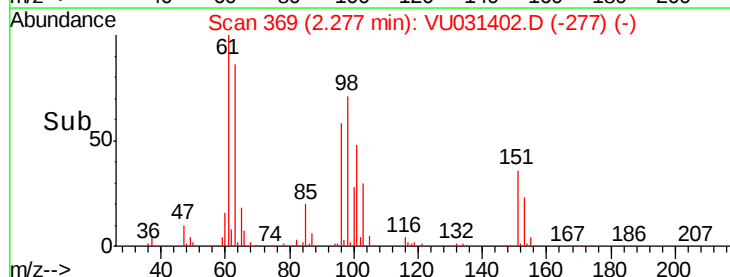
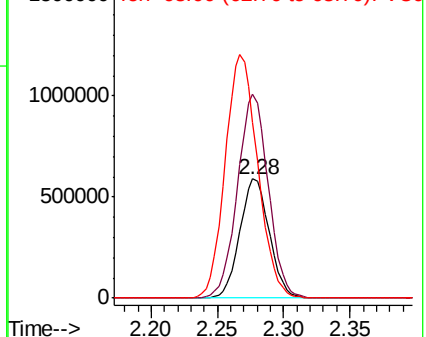
63 148.2 99.3 184.3

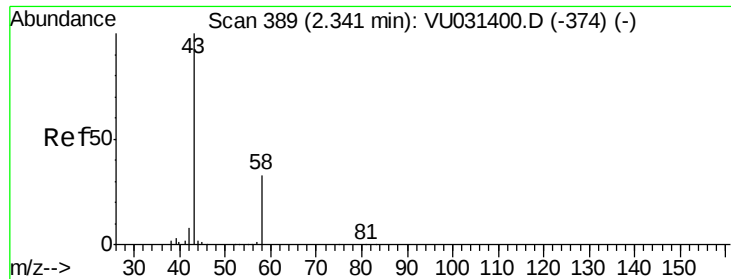


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0

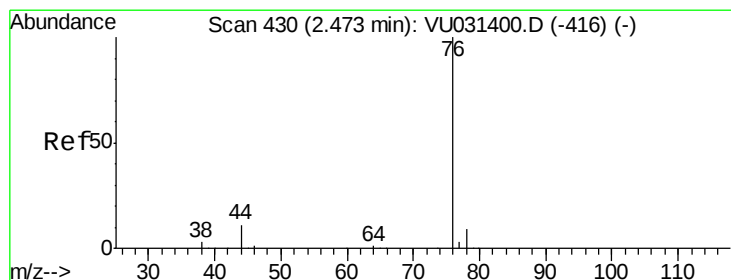
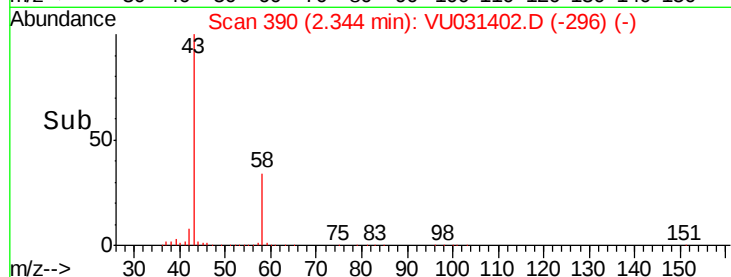
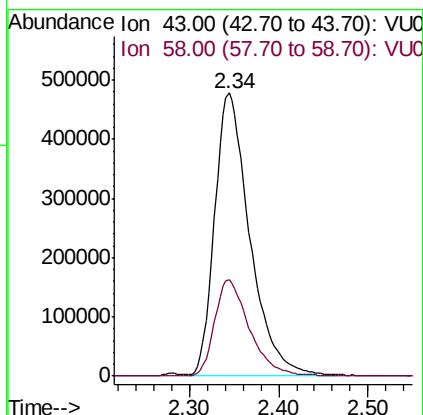
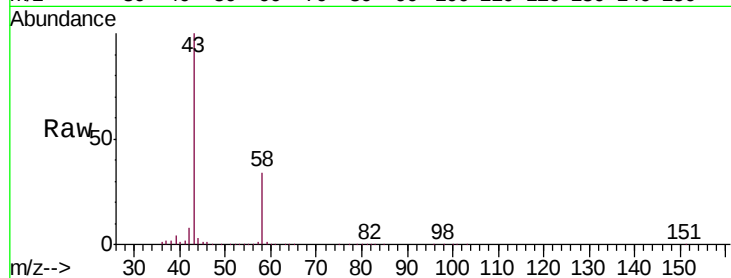




#13
Acetone
Concen: 338.577 ug/L
RT: 2.34 min Scan# 390
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

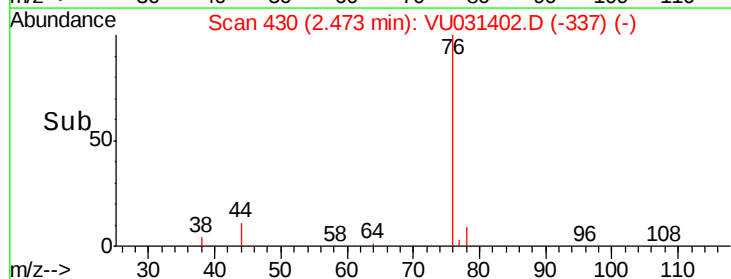
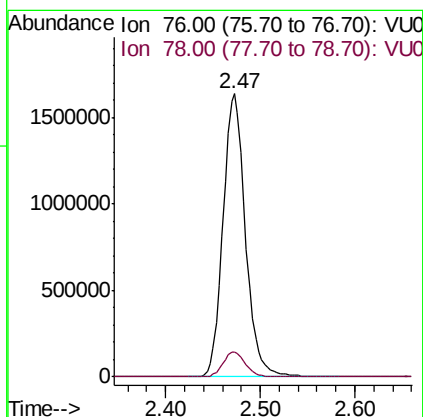
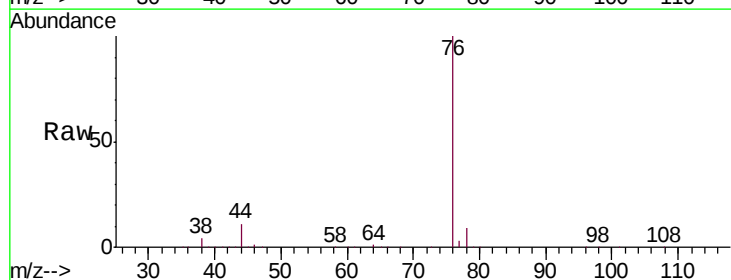
Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

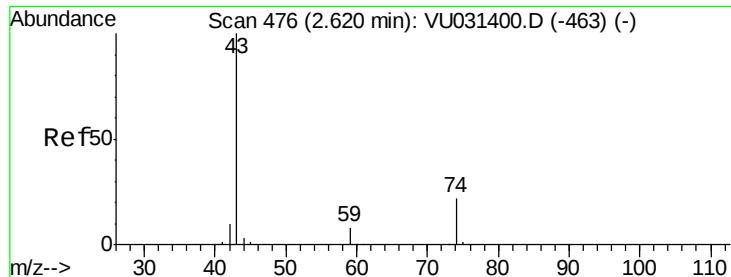
Tgt Ion: 43 Resp: 1297352
Ion Ratio Lower Upper
43 100
58 33.2 0.0 66.4



#14
Carbon disulfide
Concen: 173.565 ug/L
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

Tgt Ion: 76 Resp: 2695378
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.2





#15

Methyl Acetate

Concen: 197.814 ug/L

RT: 2.62 min Scan# 475

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

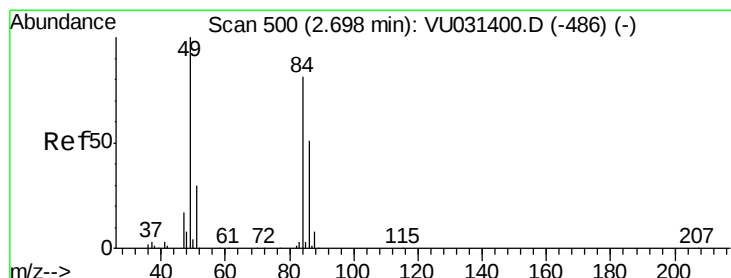
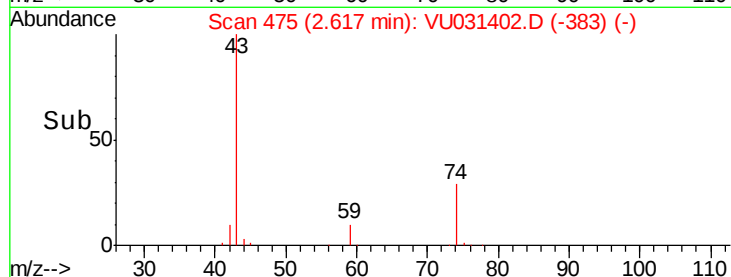
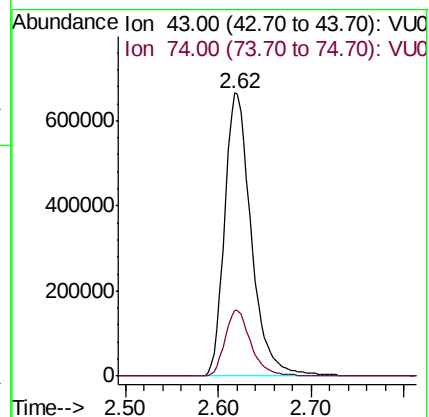
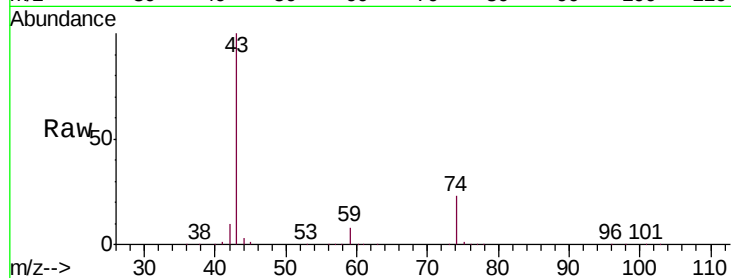
VSTD20052

Tgt Ion: 43 Resp: 1322545

Ion Ratio Lower Upper

43 100

74 22.9 18.1 27.1



#16

Methylene chloride

Concen: 183.145 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

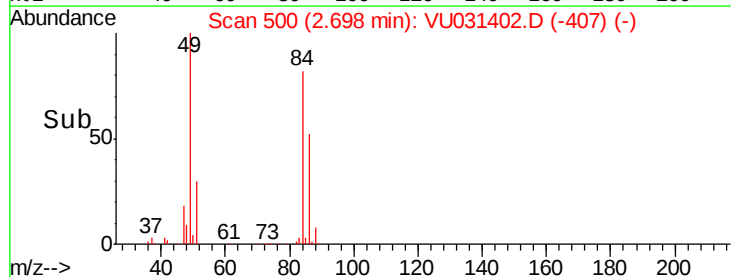
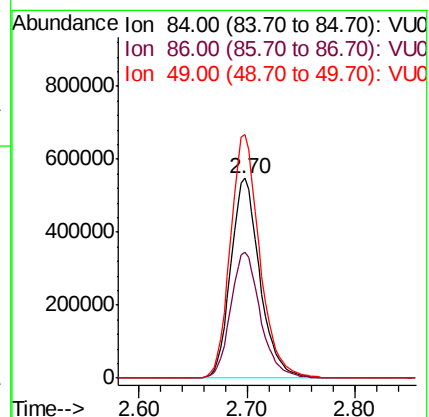
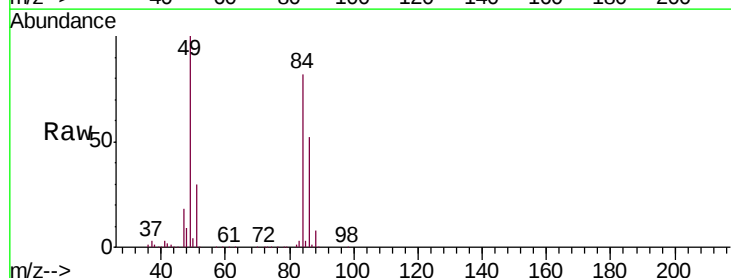
Tgt Ion: 84 Resp: 1032598

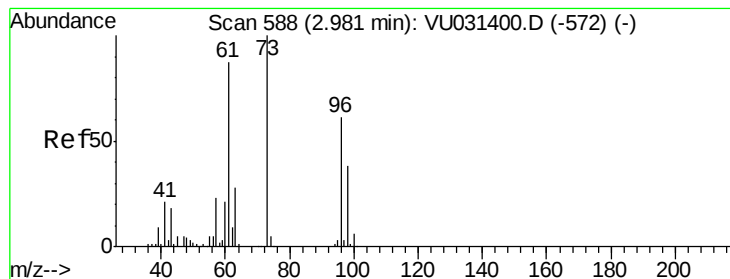
Ion Ratio Lower Upper

84 100

86 63.4 44.4 82.5

49 122.0 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 179.644 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

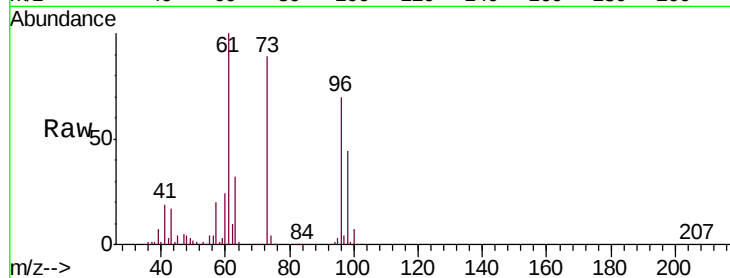
Tgt Ion: 96 Resp: 952706

Ion Ratio Lower Upper

96 100

61 143.2 100.3 186.3

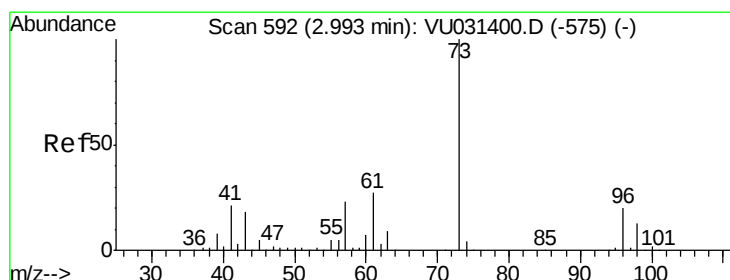
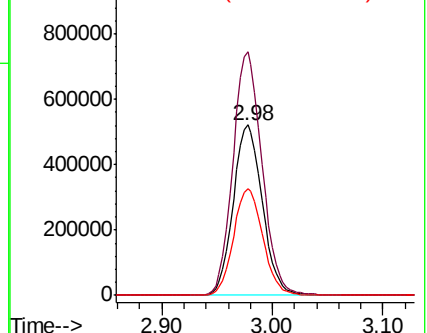
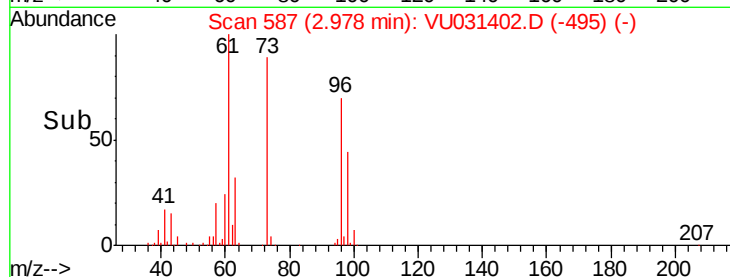
98 62.9 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031402.D (-495) (-)

Ion 61.00 (60.70 to 61.70): VU031402.D (-495) (-)

Ion 98.00 (97.70 to 98.70): VU031402.D (-495) (-)



#18

Methyl tert-butyl Ether

Concen: 190.982 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

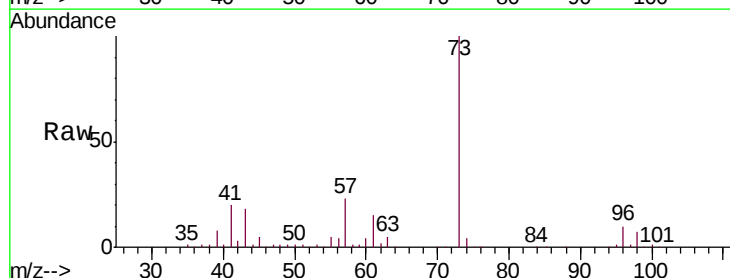
Tgt Ion: 73 Resp: 3188886

Ion Ratio Lower Upper

73 100

43 18.1 14.6 21.8

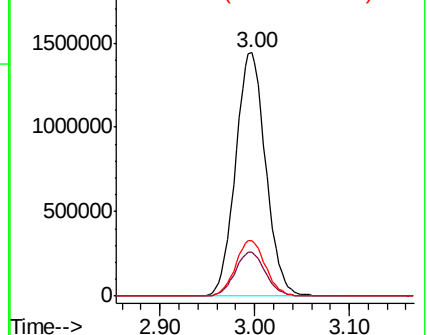
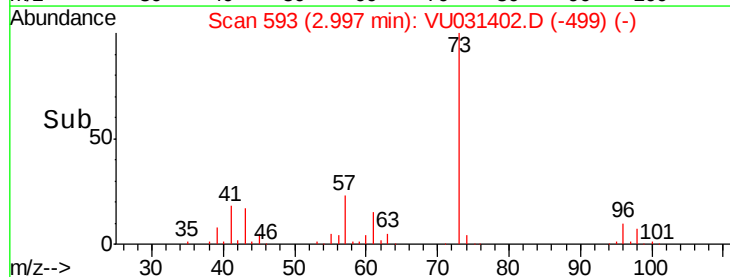
57 22.8 18.5 27.7

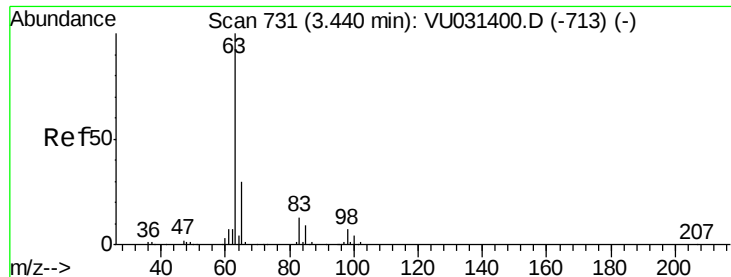


Abundance Ion 73.00 (72.70 to 73.70): VU031402.D (-499) (-)

Ion 43.00 (42.70 to 43.70): VU031402.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU031402.D (-499) (-)



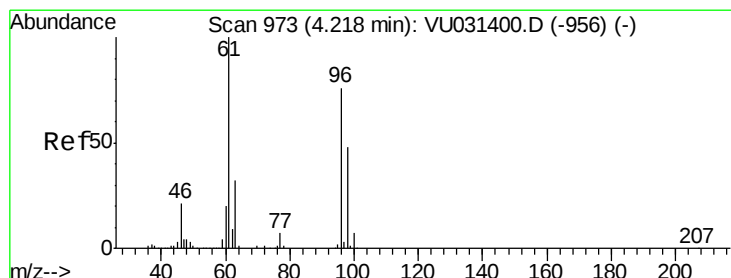
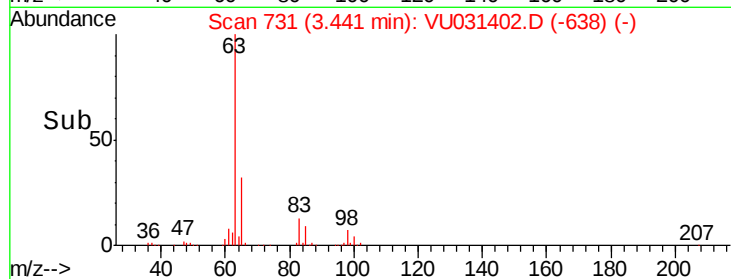
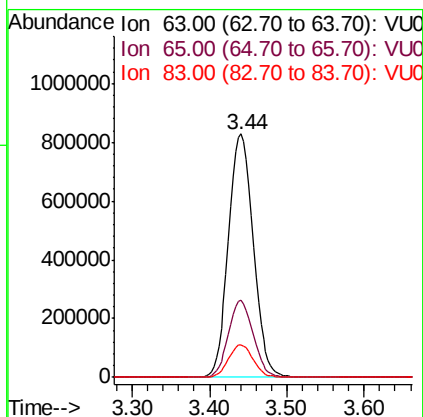
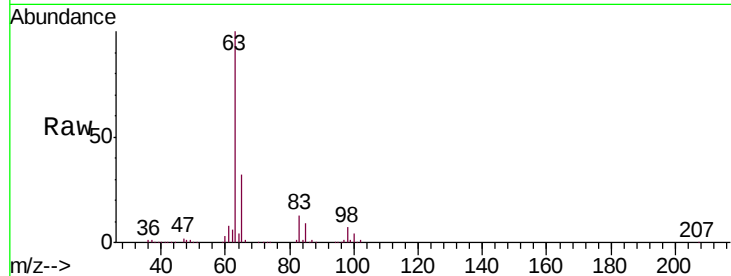


#19
 1,1-Dichloroethane
 Concen: 176.464 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

Tgt Ion: 63 Resp: 1840859

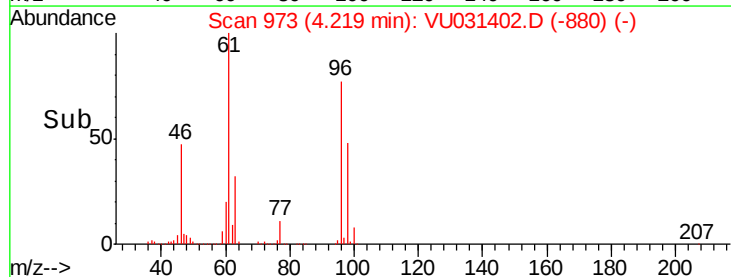
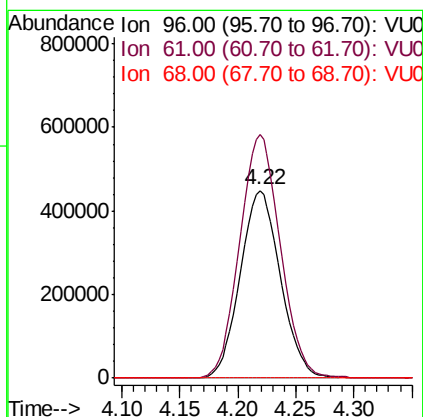
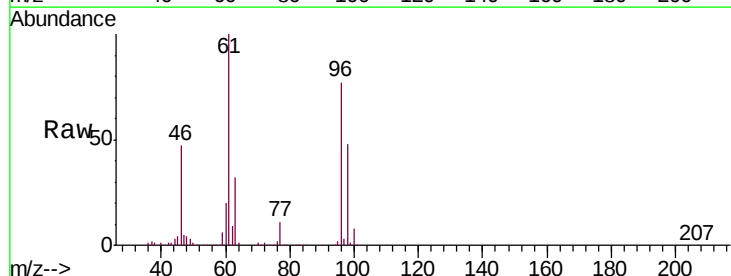
Ion	Ratio	Lower	Upper
63	100		
65	31.6	21.2	39.4
83	13.4	9.2	17.2

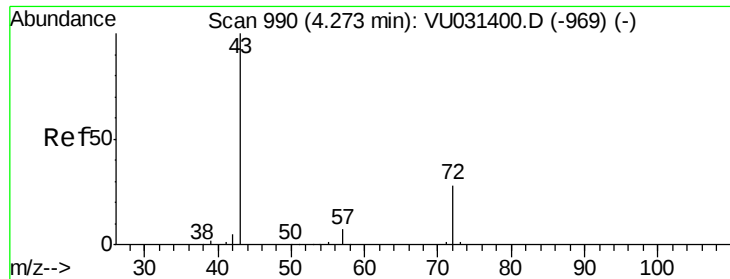


#20
 cis-1,2-Dichloroethene
 Concen: 180.419 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion: 96 Resp: 1082677

Ion	Ratio	Lower	Upper
96	100		
61	129.7	91.9	170.7
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 380.635 ug/L

RT: 4.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

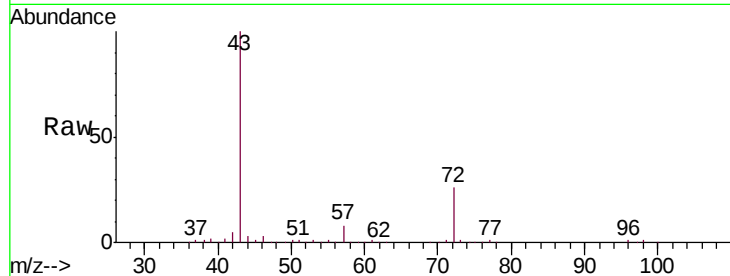
VSTD20052

Tgt Ion: 43 Resp: 1948085

Ion Ratio Lower Upper

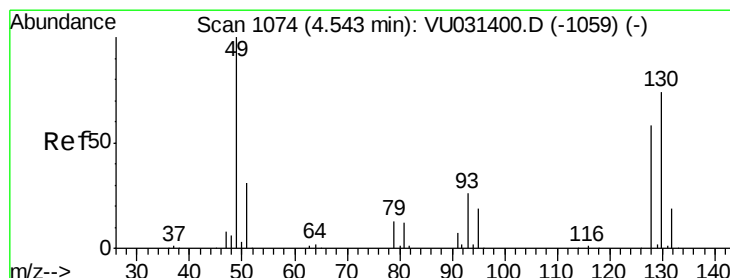
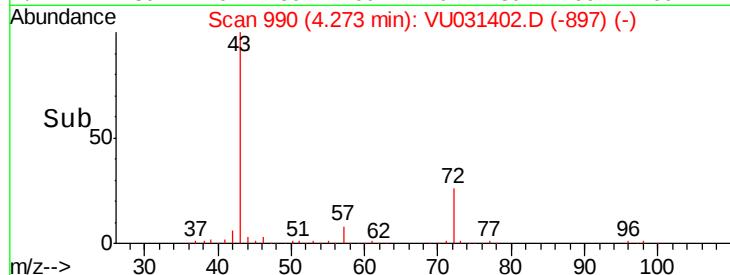
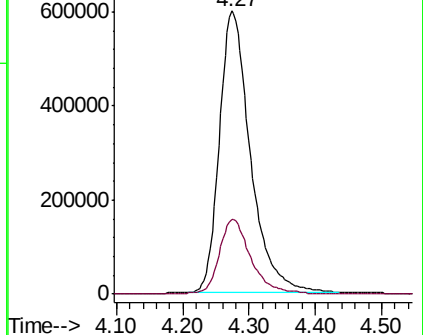
43 100

72 27.3 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031402.D (-897) (-)

Ion 72.00 (71.70 to 72.70): VU031402.D (-897) (-)



#23

Bromochloromethane

Concen: 179.139 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Tgt Ion: 128 Resp: 532954

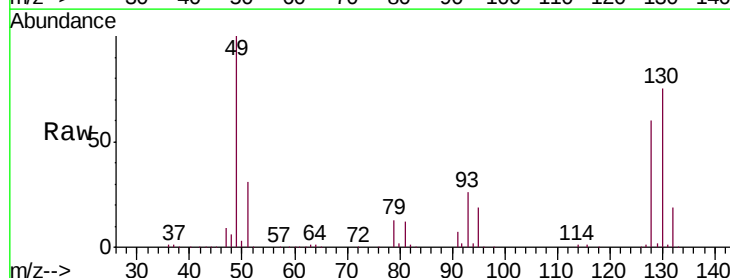
Ion Ratio Lower Upper

128 100

49 167.2 120.1 223.1

130 126.0 88.5 164.3

51 52.3 43.0 64.4

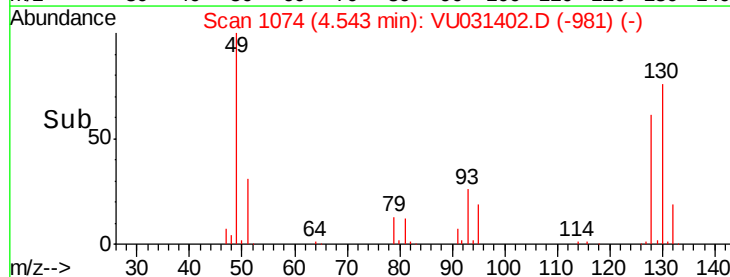
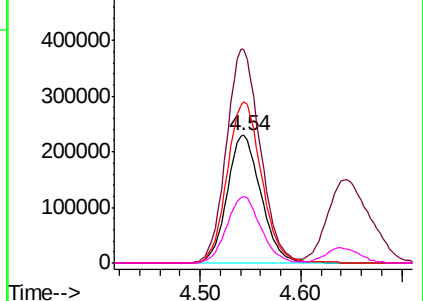


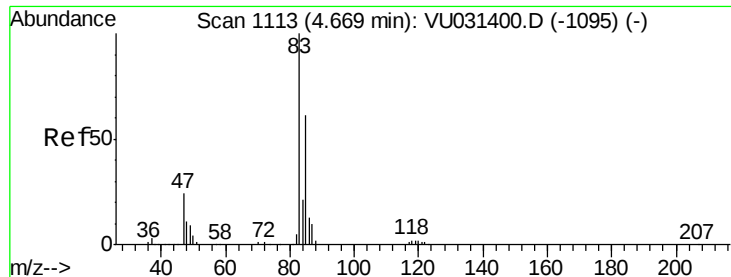
Abundance Ion 128.00 (127.70 to 128.70): VU031402.D (-981) (-)

Ion 49.00 (48.70 to 49.70): VU031402.D (-981) (-)

Ion 130.00 (129.70 to 130.70): VU031402.D (-981) (-)

Ion 51.00 (50.70 to 51.70): VU031402.D (-981) (-)





#25

Chloroform

Concen: 170.669 ug/L

RT: 4.67 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

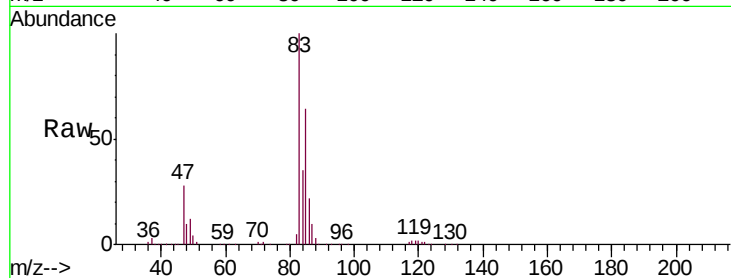
VSTD20052

Tgt Ion: 83 Resp: 1778132

Ion Ratio Lower Upper

83 100

85 64.2 43.0 79.8



Abundance Ion 83.00 (82.70 to 83.70): VU031402.D (-1095) (-)

Ion 85.00 (84.70 to 85.70): VU031402.D (-1095) (-)

4.67

800000

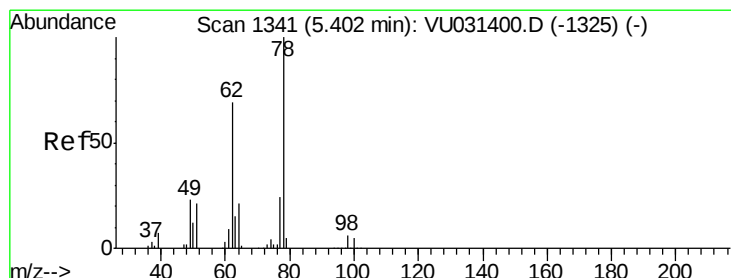
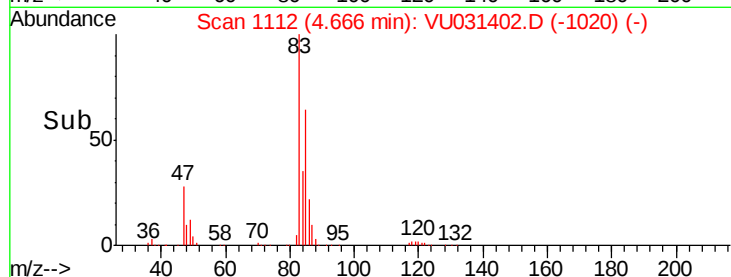
600000

400000

200000

0

Time-->



#27

1,2-Dichloroethane

Concen: 167.806 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VU031402.D

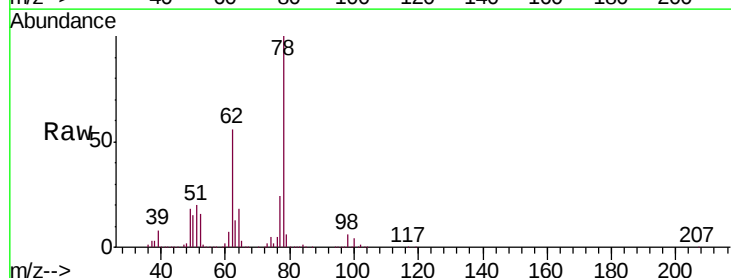
Acq: 22 Apr 2019 19:00

Tgt Ion: 62 Resp: 1327287

Ion Ratio Lower Upper

62 100

98 10.2 7.3 10.9



Abundance Ion 62.00 (61.70 to 62.70): VU031402.D (-1248) (-)

Ion 98.00 (97.70 to 98.70): VU031402.D (-1248) (-)

5.40

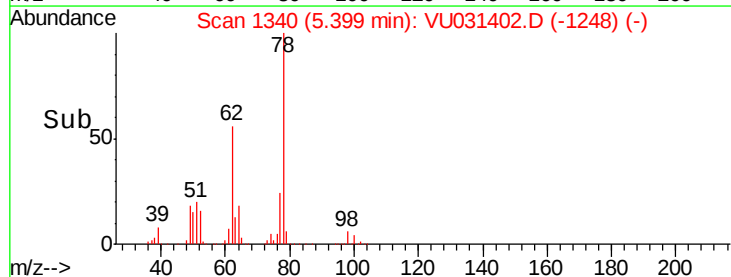
600000

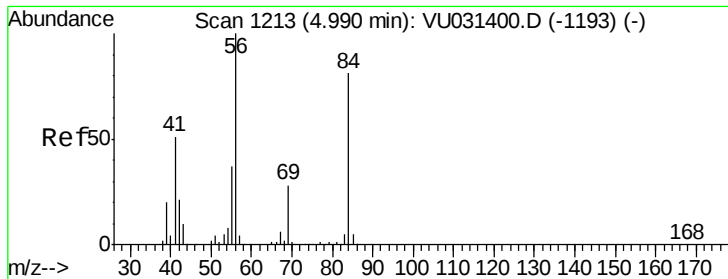
400000

200000

0

Time-->

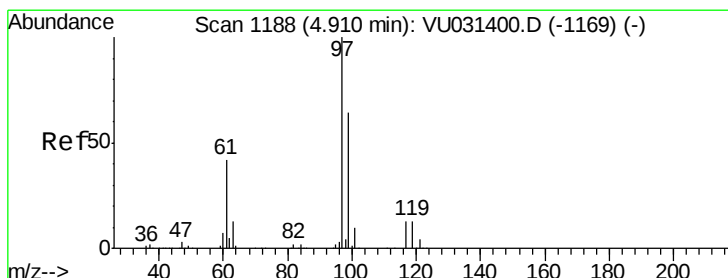
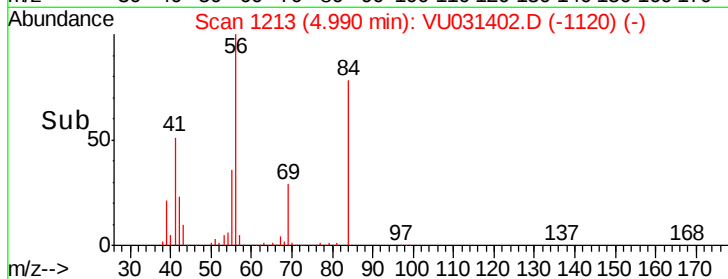
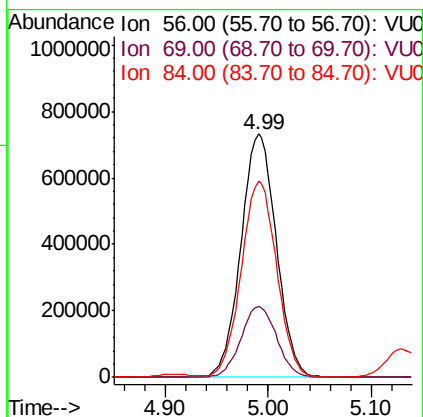
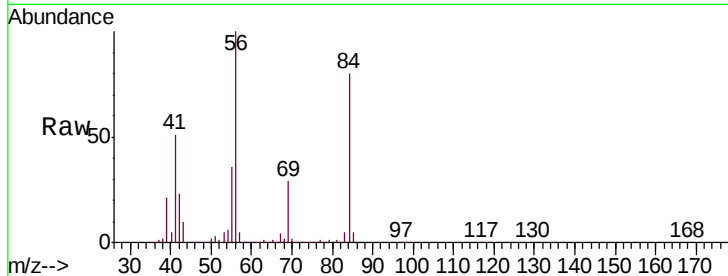




#29
Cyclohexane
Concen: 179.795 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

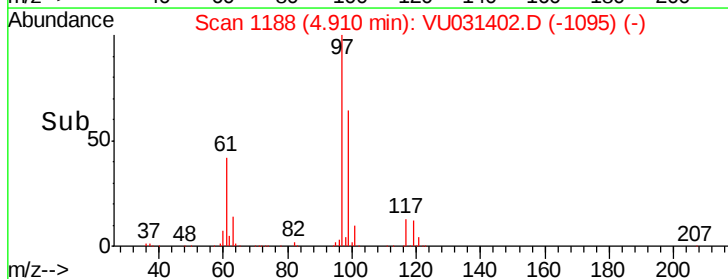
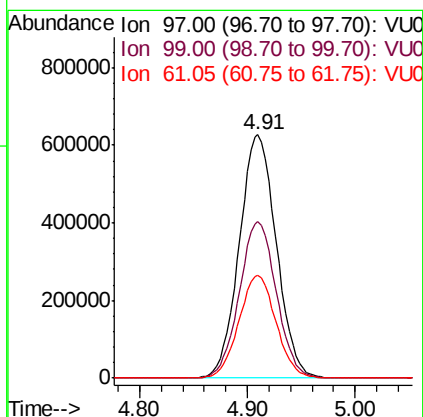
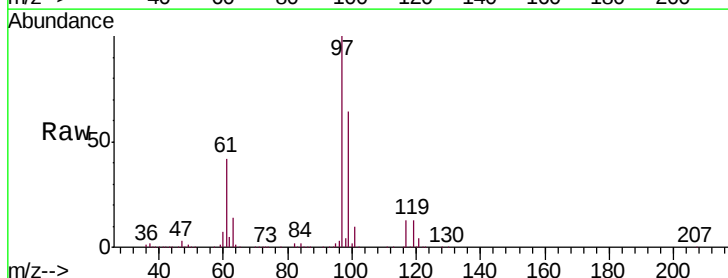
Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

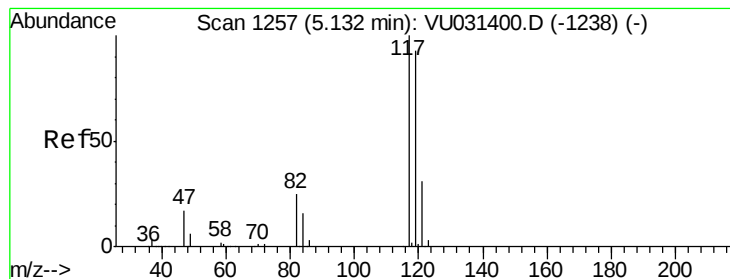
Tgt Ion: 56 Resp: 1745063
Ion Ratio Lower Upper
56 100
69 29.6 23.3 34.9
84 80.8 64.6 96.8



#30
1,1,1-Trichloroethane
Concen: 164.968 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

Tgt Ion: 97 Resp: 1500509
Ion Ratio Lower Upper
97 100
99 64.3 52.0 78.0
61 42.2 33.9 50.9





#31

Carbon tetrachloride

Concen: 165.497 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

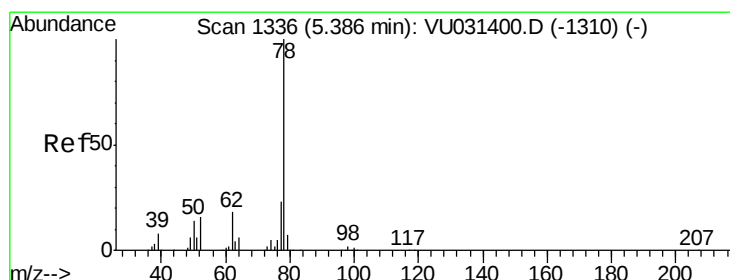
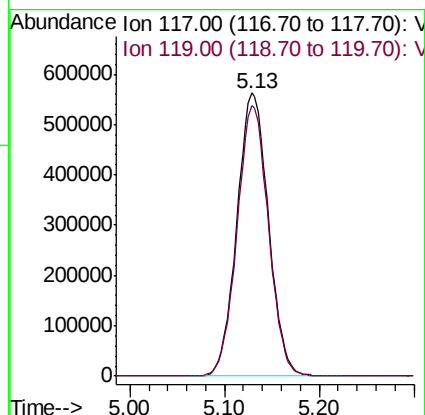
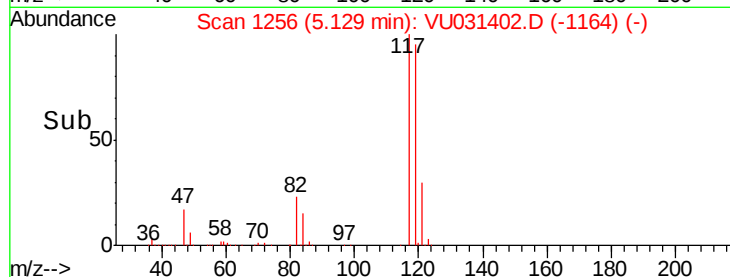
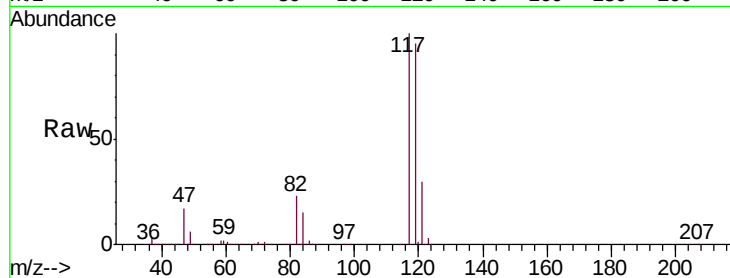
VSTD20052

Tgt Ion:117 Resp: 1300876

Ion Ratio Lower Upper

117 100

119 95.0 76.2 114.4



#33

Benzene

Concen: 174.723 ug/L

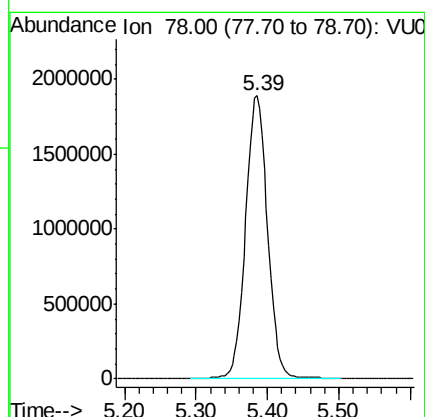
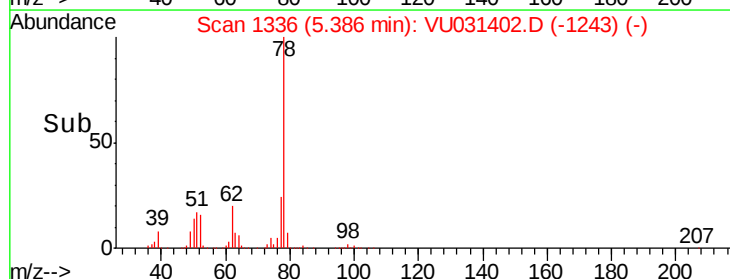
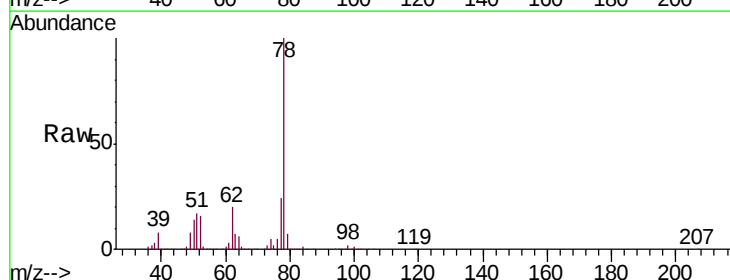
RT: 5.39 min Scan# 1336

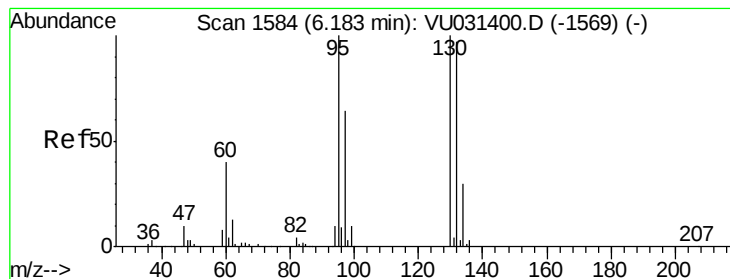
Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Tgt Ion: 78 Resp: 4070340





#34

Trichloroethene

Concen: 176.247 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

Tgt Ion: 95 Resp: 1038039

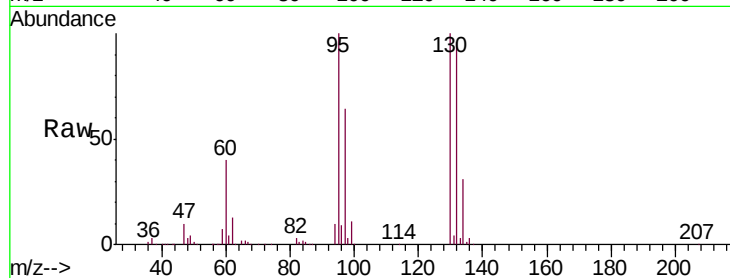
Ion Ratio Lower Upper

95 100

97 64.2 44.9 83.5

132 95.8 68.0 126.2

130 99.9 70.1 130.1

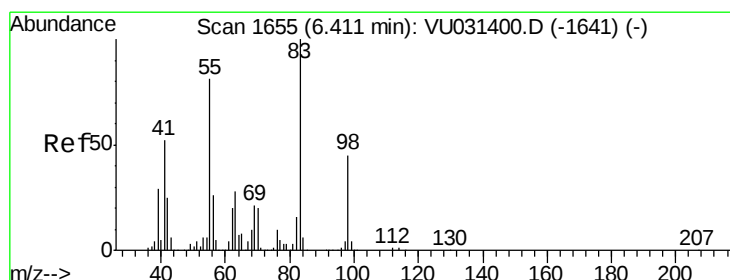
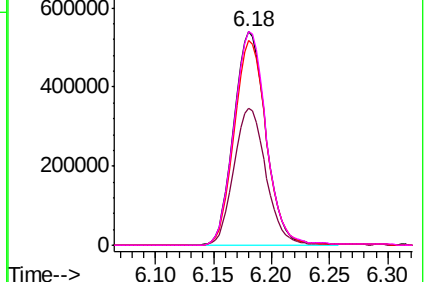
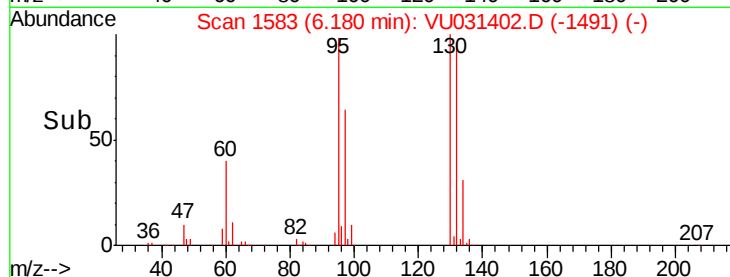


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 186.453 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

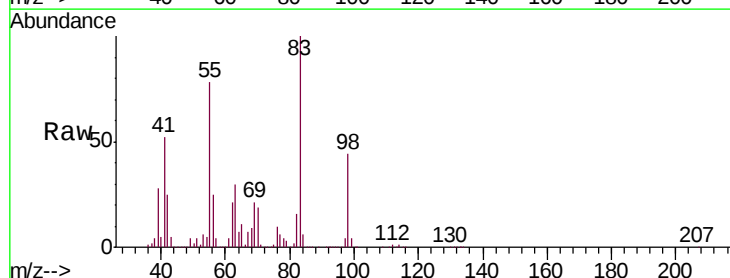
Tgt Ion: 83 Resp: 1638993

Ion Ratio Lower Upper

83 100

55 79.3 65.4 98.0

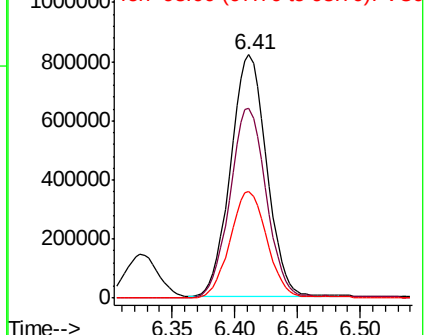
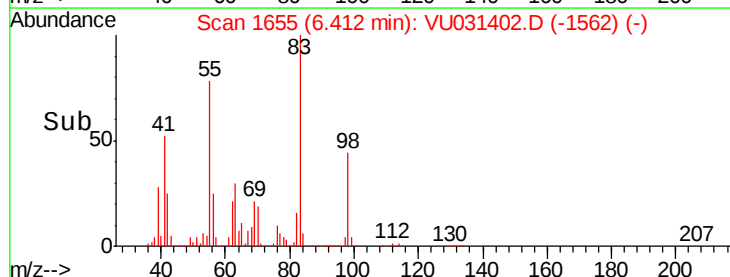
98 44.9 36.8 55.2

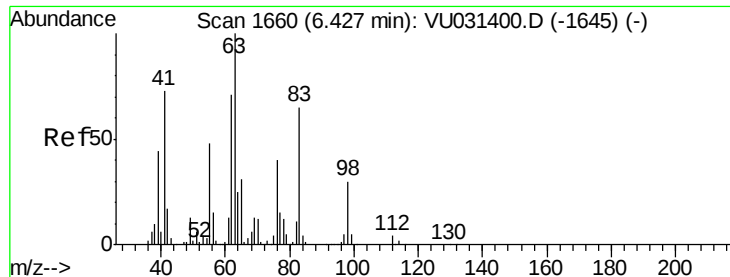


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

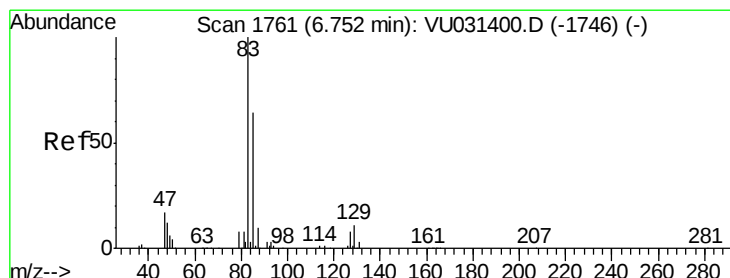
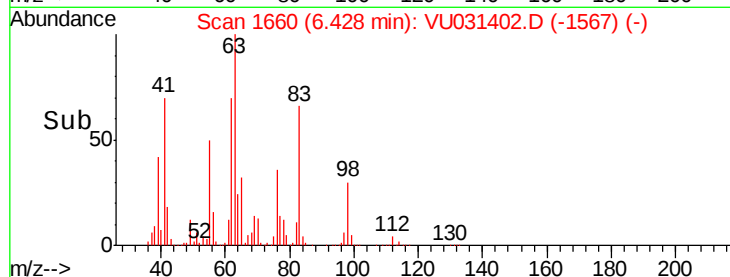
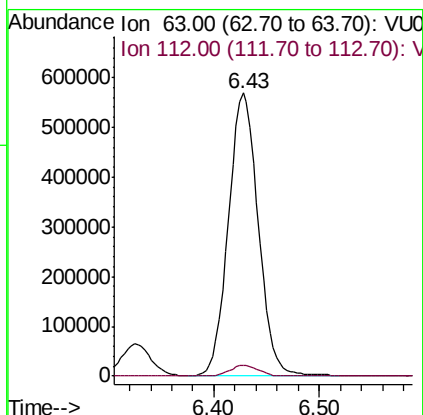
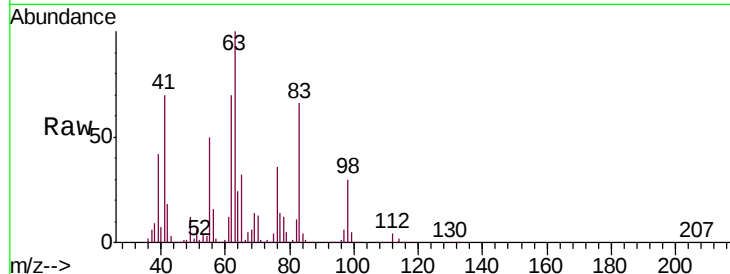




#37
 1,2-Dichloropropane
 Concen: 178.356 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

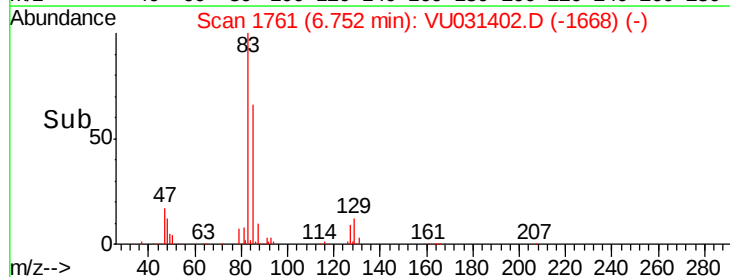
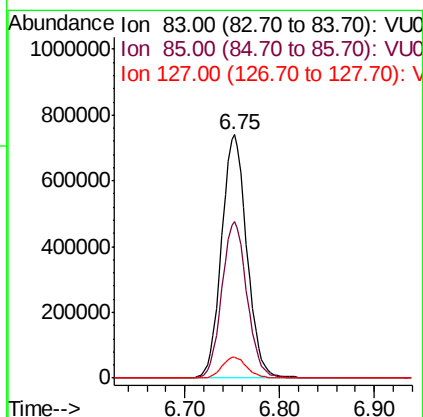
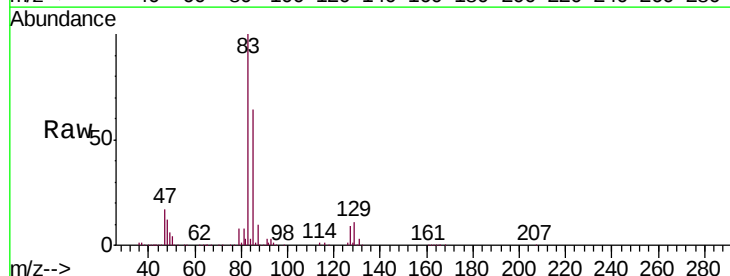
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

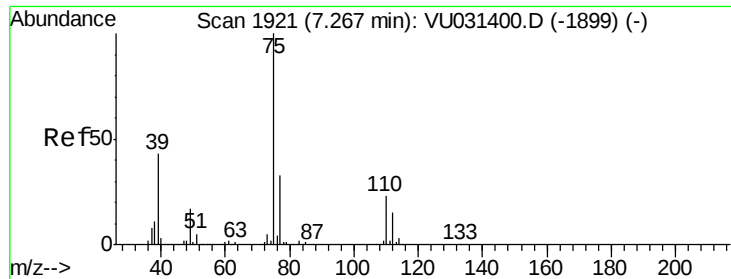
Tgt Ion: 63 Resp: 1108673
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.4



#38
 Bromodichloromethane
 Concen: 174.208 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion: 83 Resp: 1366501
 Ion Ratio Lower Upper
 83 100
 85 64.4 45.0 83.6
 127 8.6 6.7 10.1

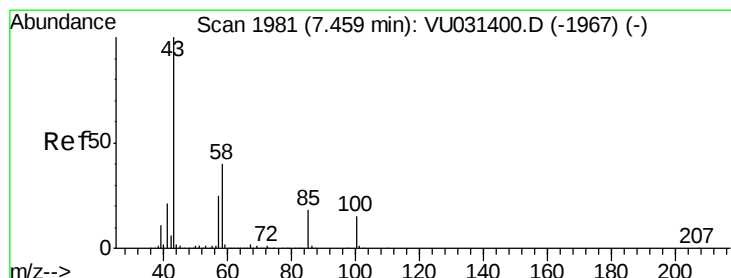
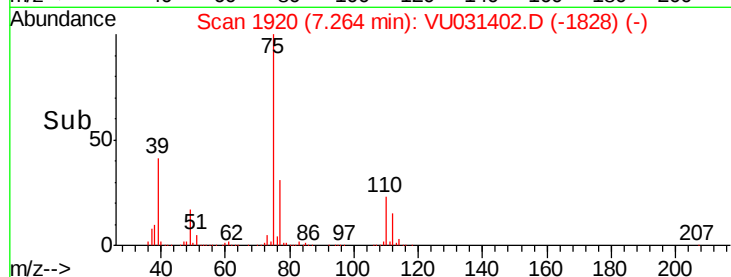
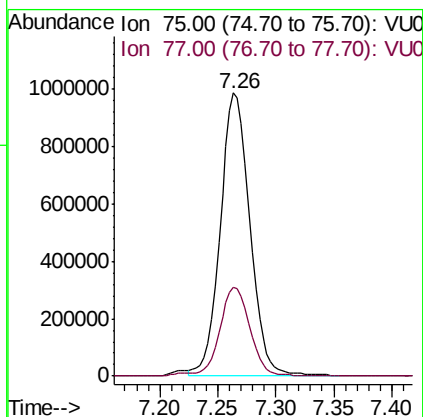
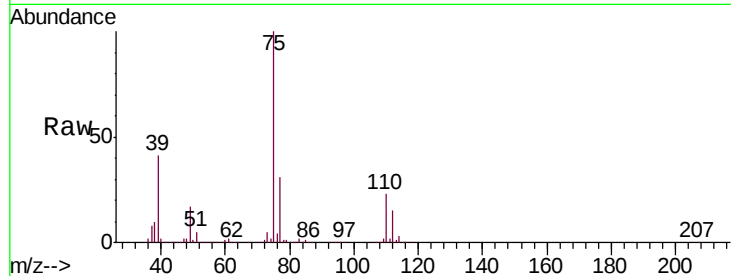




#39
 cis-1,3-Dichloropropene
 Concen: 186.379 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

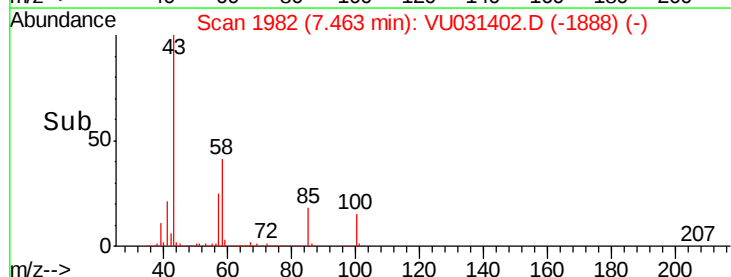
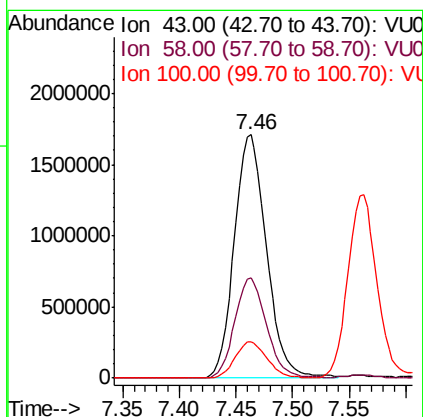
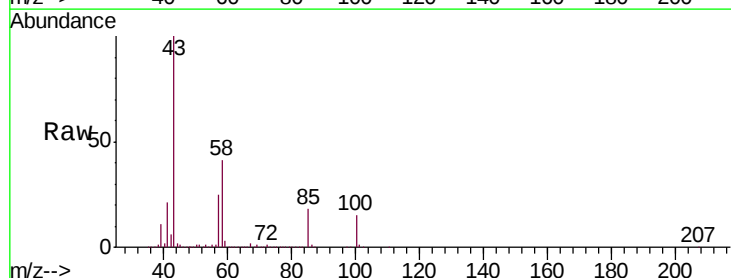
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20052

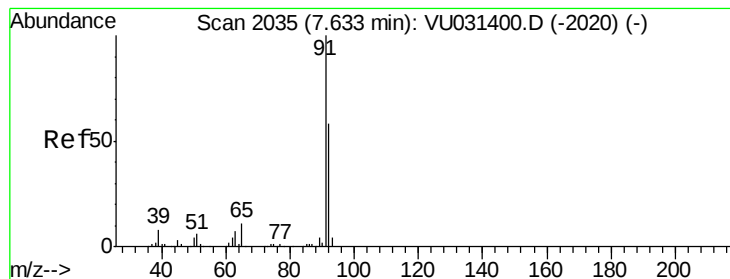
Tgt Ion: 75 Resp: 1746237
 Ion Ratio Lower Upper
 75 100
 77 31.4 23.0 42.8



#40
 4-Methyl-2-pentanone
 Concen: 384.457 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion: 43 Resp: 3396159
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.3 48.5
 100 14.8 11.8 17.8





#42

Toluene

Concen: 183.357 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

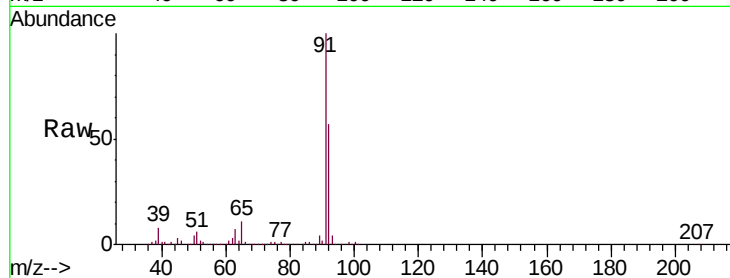
VSTD20052

Tgt Ion: 91 Resp: 4306322

Ion Ratio Lower Upper

91 100

92 57.3 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU031402.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031402.D (-2020) (-)

7.63

2500000

2000000

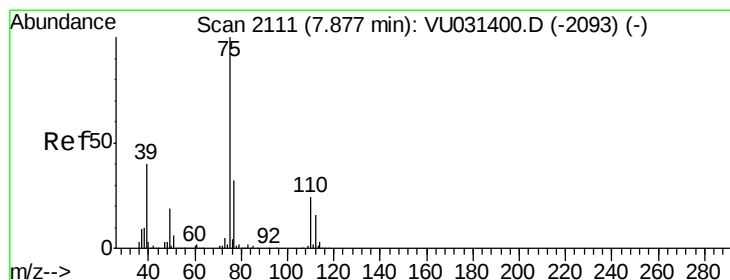
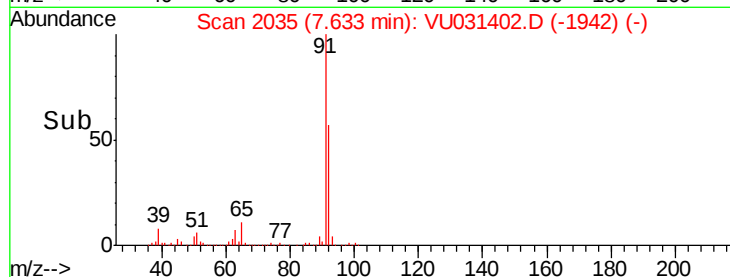
1500000

1000000

500000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 188.419 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU031402.D

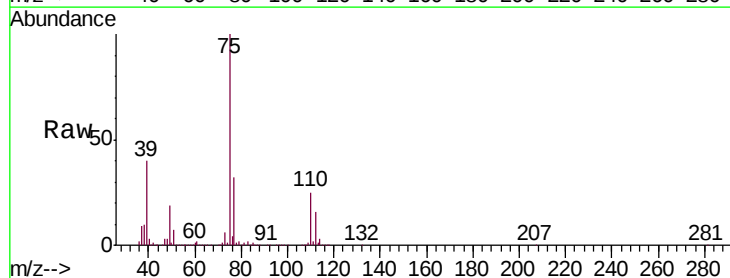
Acq: 22 Apr 2019 19:00

Tgt Ion: 75 Resp: 1516566

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU031402.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031402.D (-2093) (-)

7.87

1000000

800000

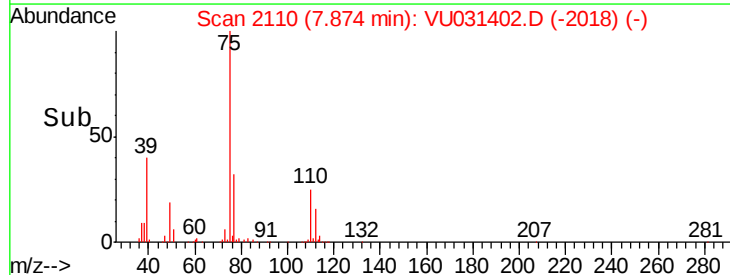
600000

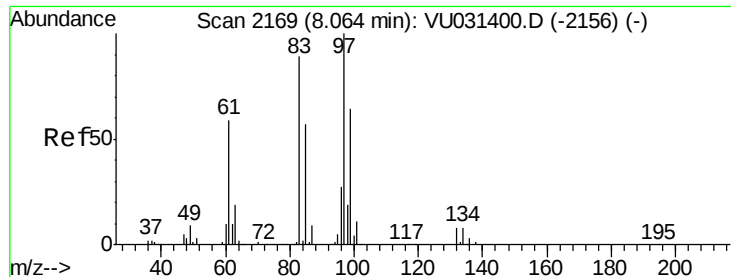
400000

200000

0

Time-->



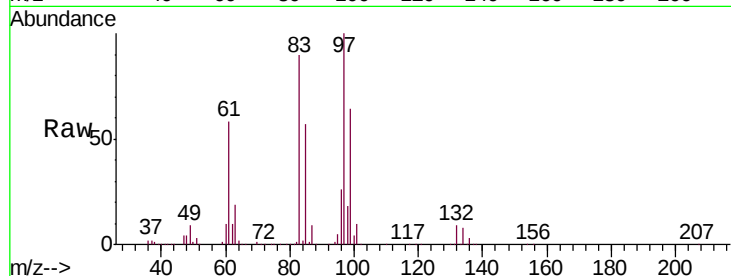


#45
 1,1,2-Trichloroethane
 Concen: 180.675 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

Tgt Ion: 97 Resp: 1010273

Ion	Ratio	Lower	Upper
97	100		
99	63.7	44.9	83.3
83	89.6	62.5	116.1
85	56.7	39.6	73.6



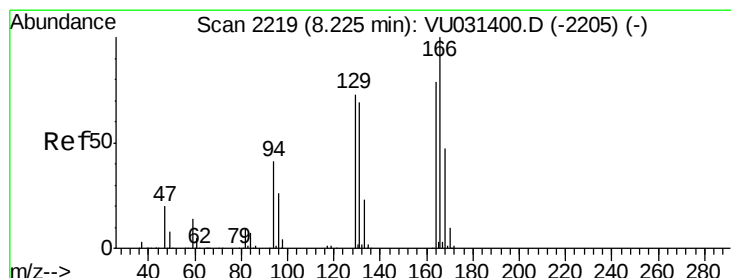
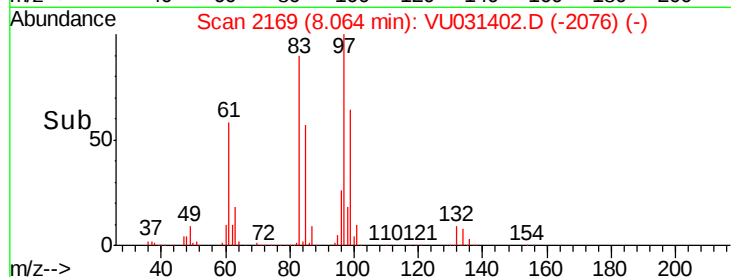
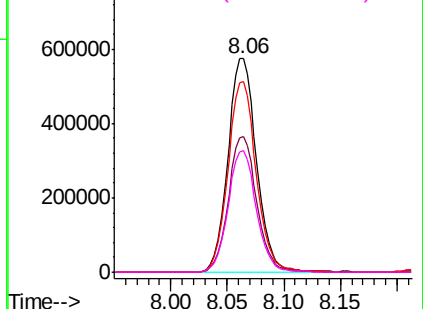
Abundance

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

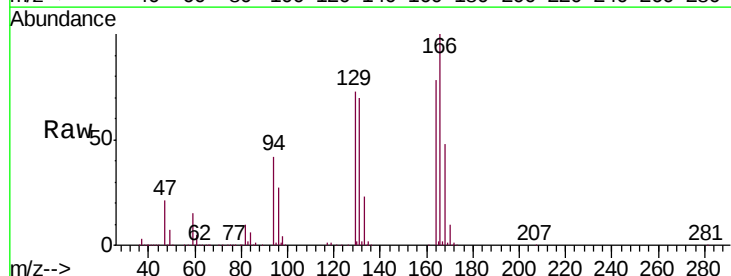
Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 179.301 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion: 164 Resp: 791433

Ion	Ratio	Lower	Upper
164	100		
129	94.3	65.2	121.0
131	90.5	61.4	114.0
166	128.7	89.2	165.6



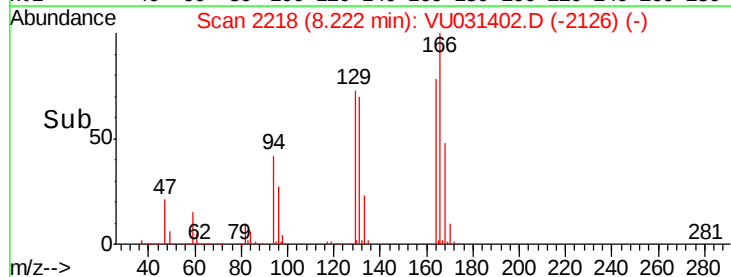
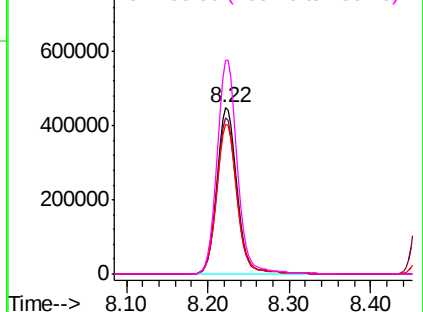
Abundance

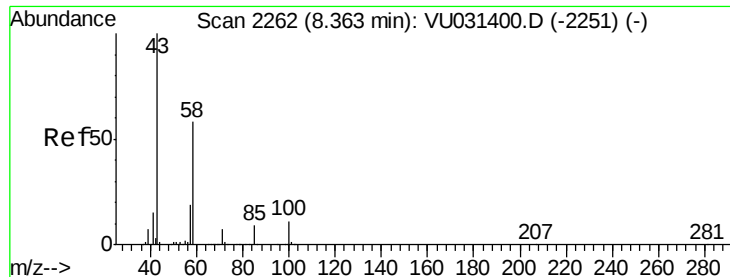
Ion 164.00 (163.70 to 164.70): V

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

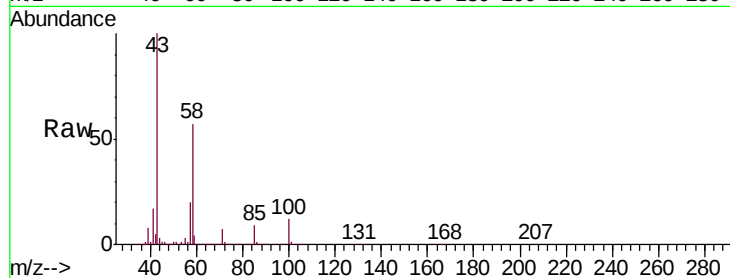




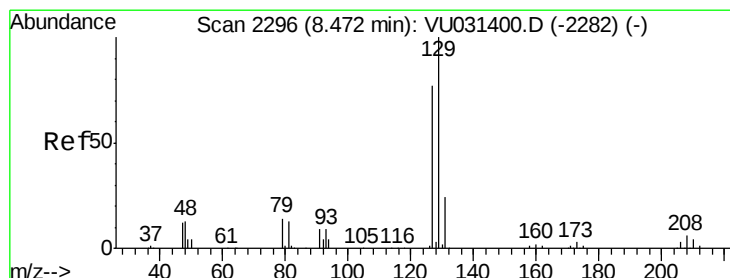
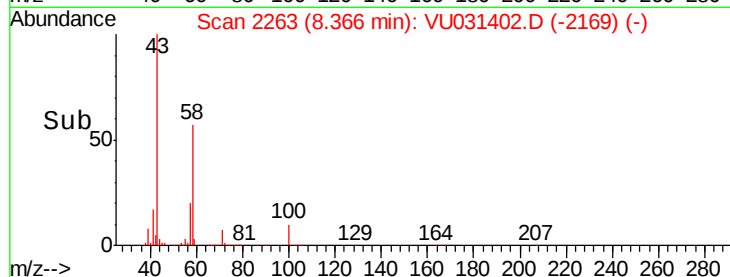
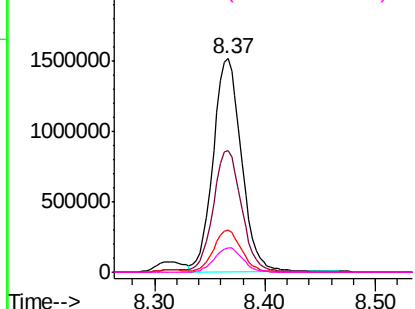
#48
2-Hexanone
Concen: 384.145 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

Tgt Ion: 43 Resp: 2695083
Ion Ratio Lower Upper
43 100
58 57.1 45.5 68.3
57 19.5 15.2 22.8
100 11.6 9.1 13.7

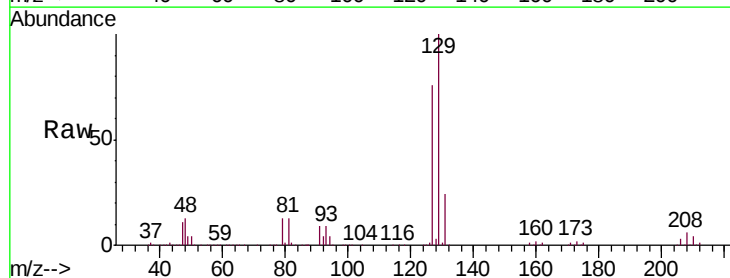


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

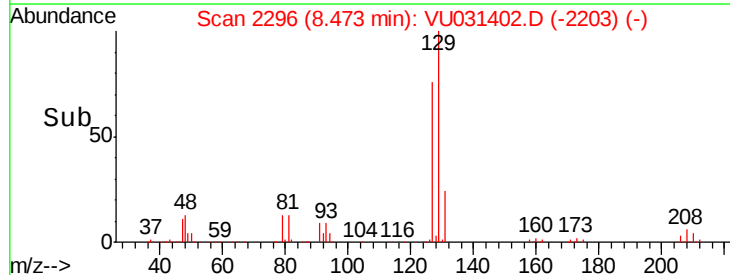
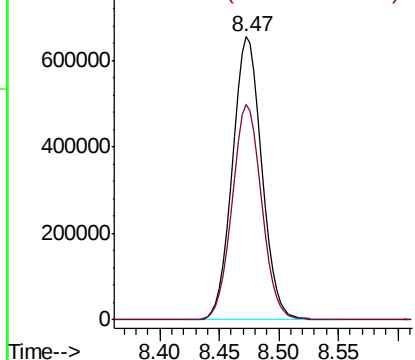


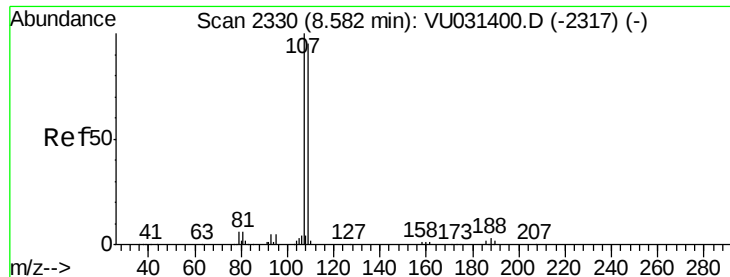
#49
Dibromochloromethane
Concen: 186.200 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

Tgt Ion: 129 Resp: 1123952
Ion Ratio Lower Upper
129 100
127 76.3 54.2 100.6



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

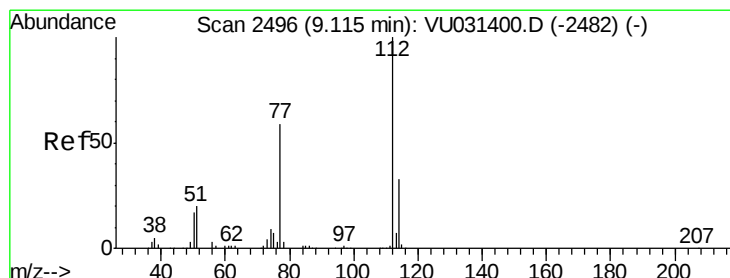
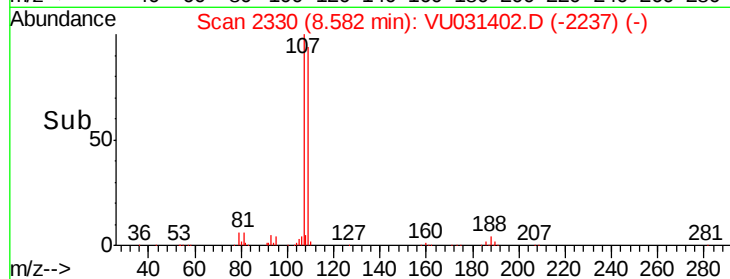
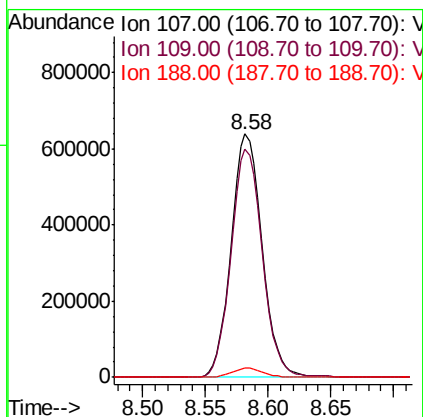
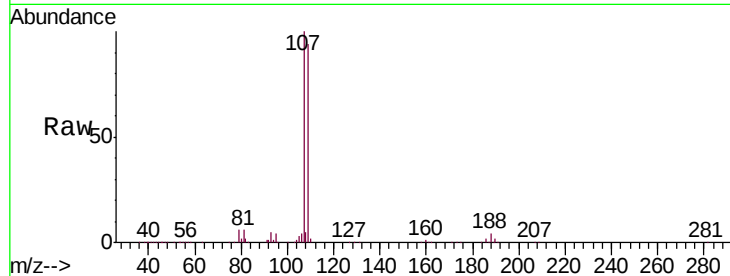




#50
1,2-Dibromoethane
Concen: 185.302 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

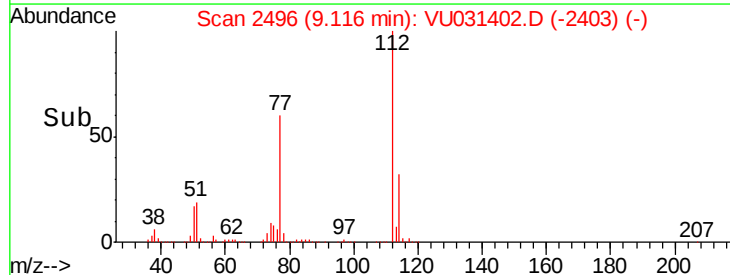
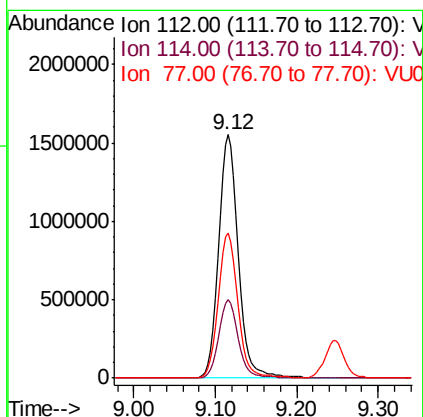
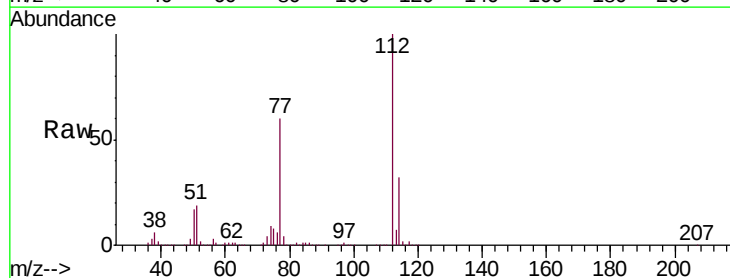
Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

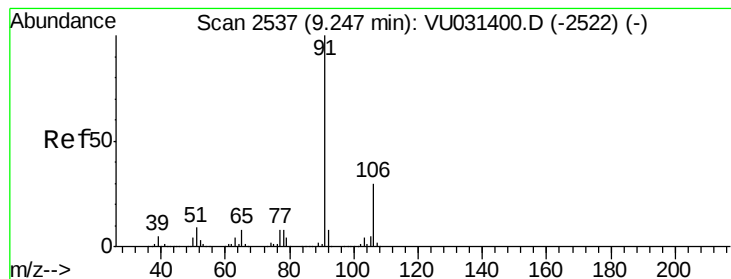
Tgt Ion:107 Resp: 1098978
Ion Ratio Lower Upper
107 100
109 93.8 66.6 123.8
188 3.8 2.6 4.0



#51
Chlorobenzene
Concen: 181.368 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU031402.D
Acq: 22 Apr 2019 19:00

Tgt Ion:112 Resp: 2654674
Ion Ratio Lower Upper
112 100
114 32.2 23.0 42.8
77 59.5 47.1 70.7





#52

Ethylbenzene

Concen: 184.788 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

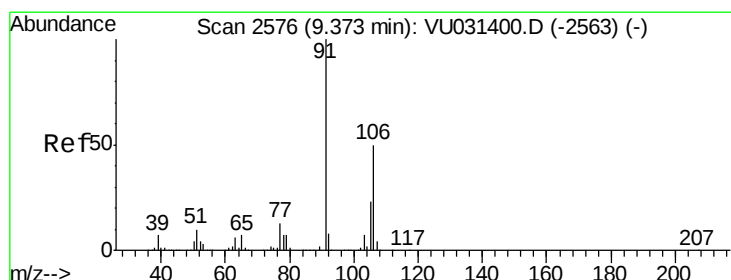
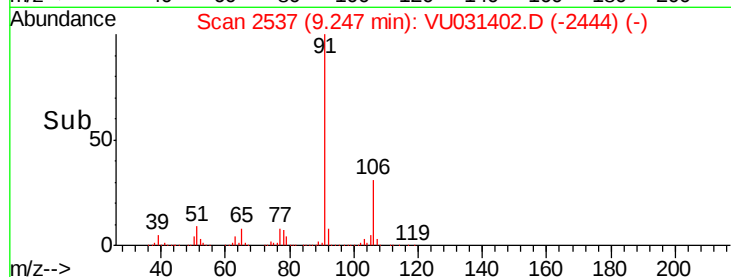
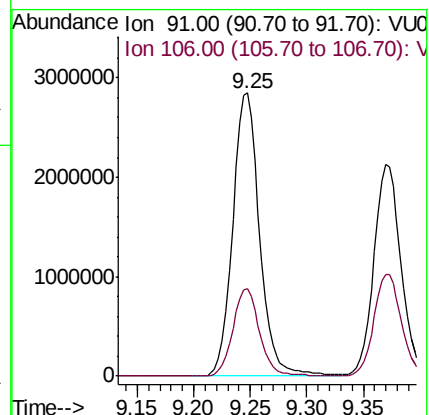
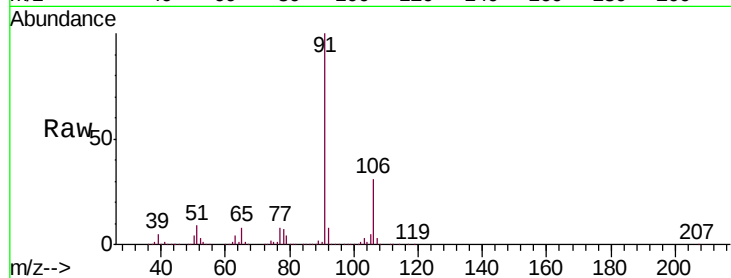
VSTD20052

Tgt Ion: 91 Resp: 4712113

Ion Ratio Lower Upper

91 100

106 30.7 21.3 39.5



#53

m,p-Xylene

Concen: 194.587 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031402.D

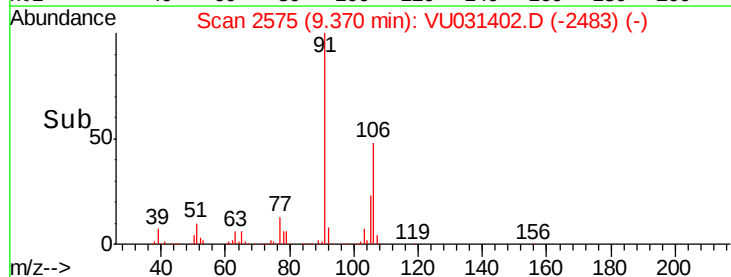
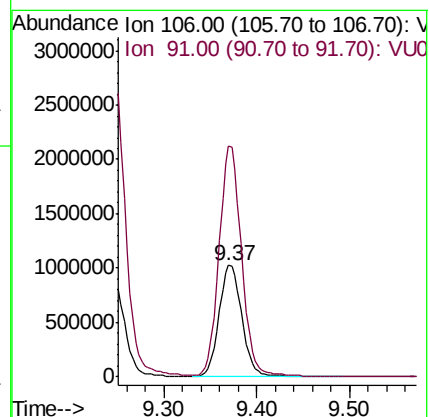
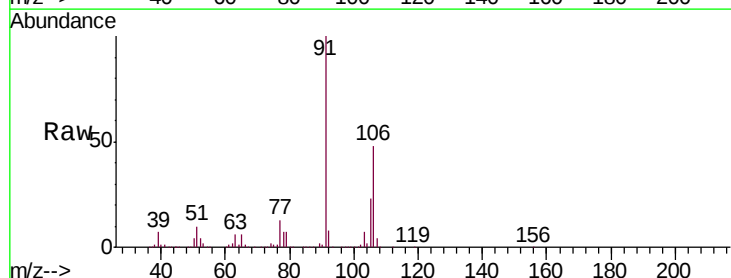
Acq: 22 Apr 2019 19:00

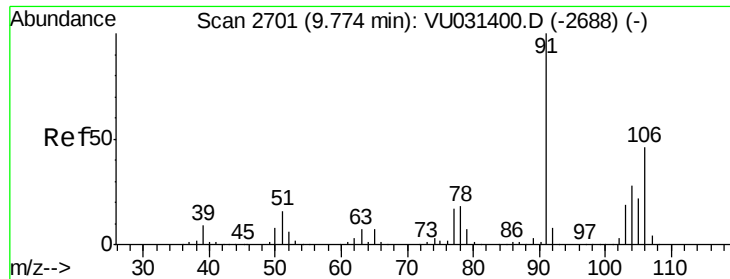
Tgt Ion: 106 Resp: 1757853

Ion Ratio Lower Upper

106 100

91 206.9 141.5 262.7





#54

o-xylene

Concen: 189.787 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

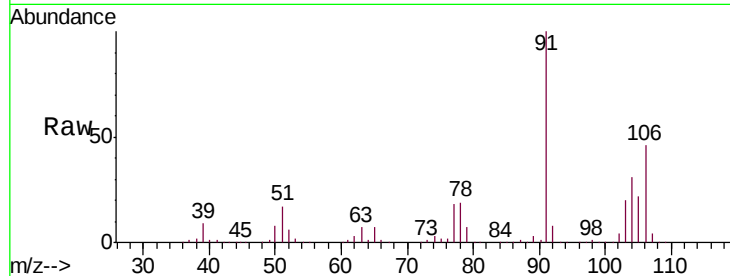
Instrument :
MSVOA_U
ClientSampleId :
VSTD20052

Tgt Ion:106 Resp: 1738554

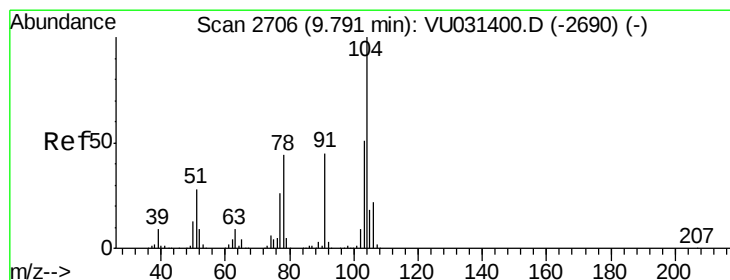
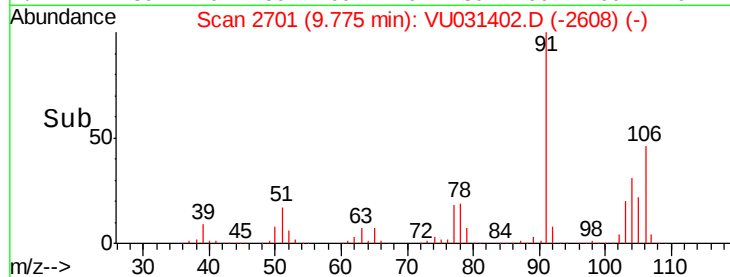
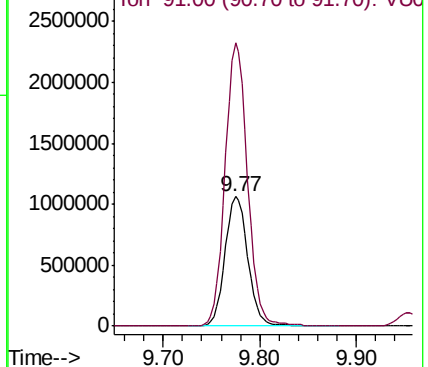
Ion Ratio Lower Upper

106 100

91 218.8 152.4 283.0



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 195.936 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031402.D

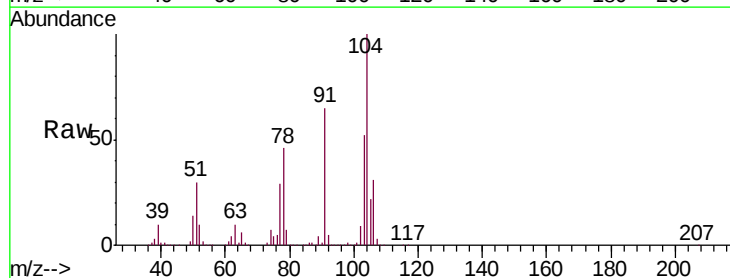
Acq: 22 Apr 2019 19:00

Tgt Ion:104 Resp: 3006457

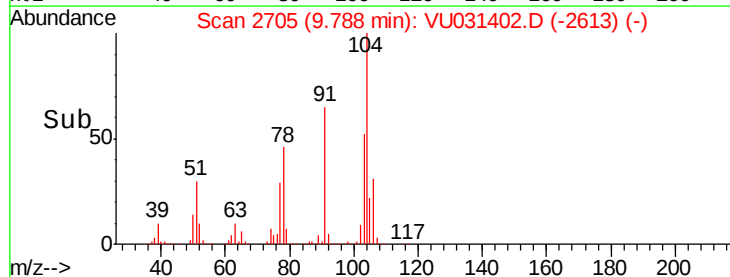
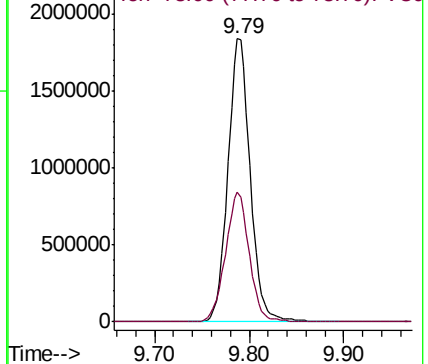
Ion Ratio Lower Upper

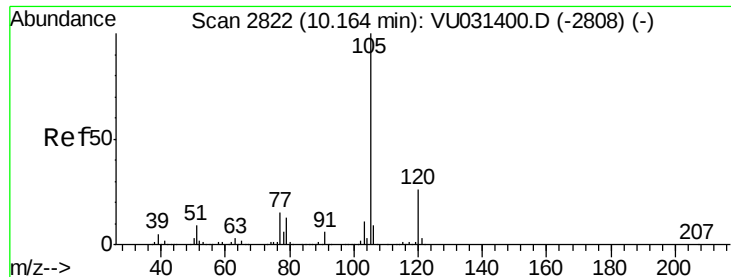
104 100

78 45.8 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 193.594 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

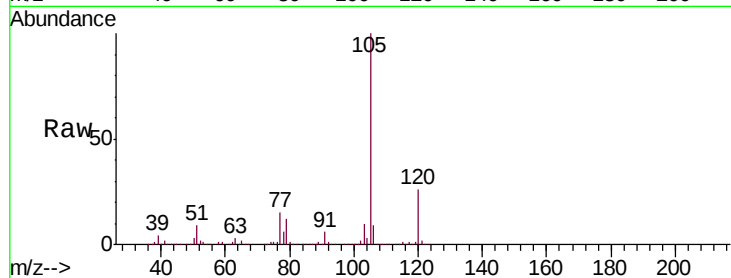
Tgt Ion:105 Resp: 4544118

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

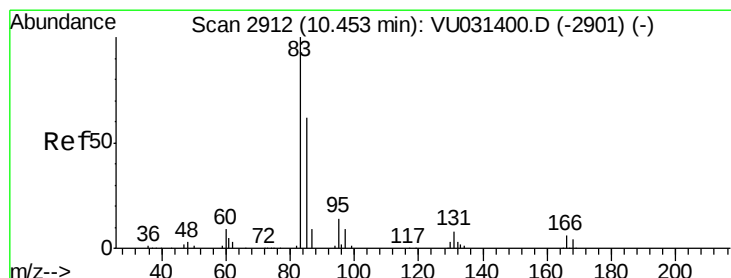
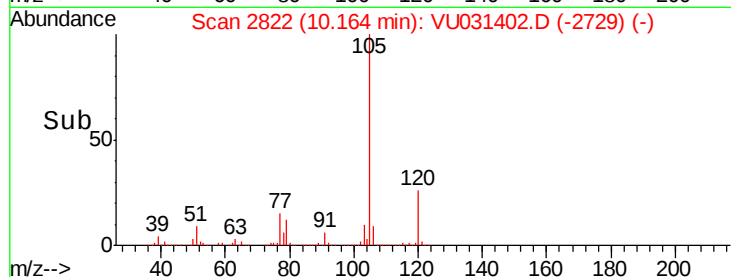
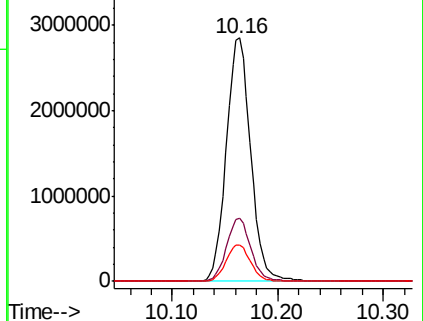
77 15.2 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 179.769 ug/L

RT: 10.46 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

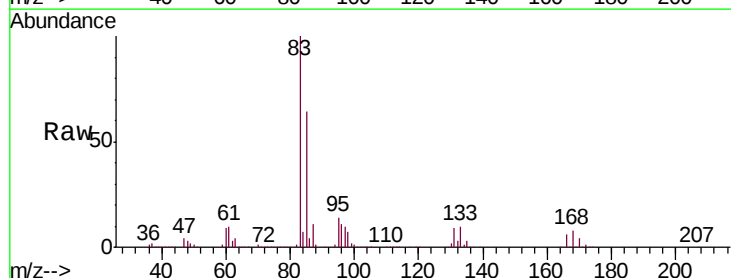
Tgt Ion: 83 Resp: 1734606

Ion Ratio Lower Upper

83 100

85 63.9 44.5 82.7

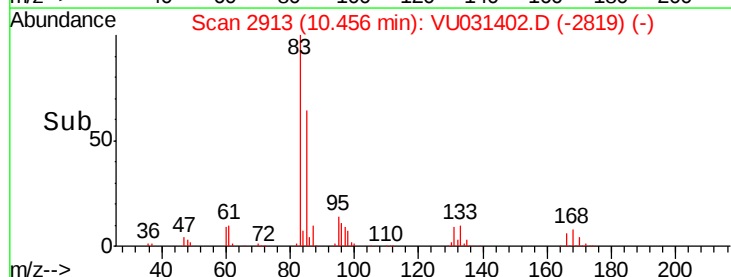
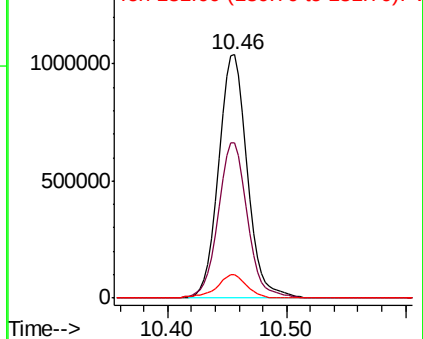
131 9.4 7.0 10.6

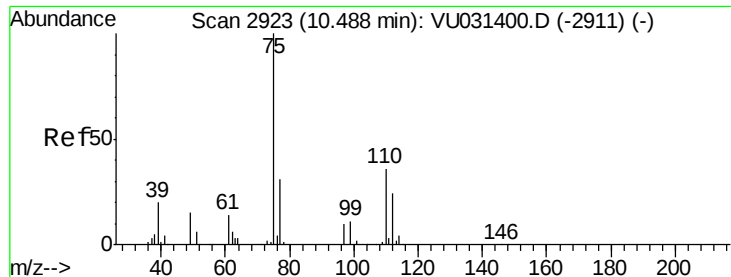


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

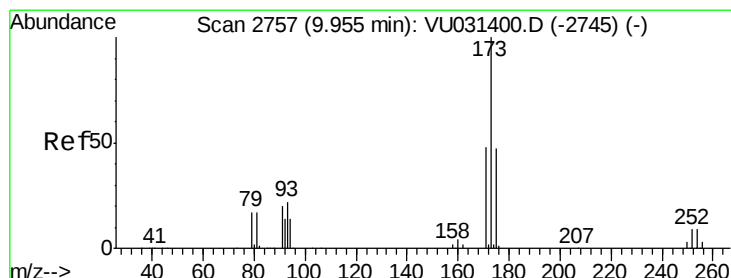
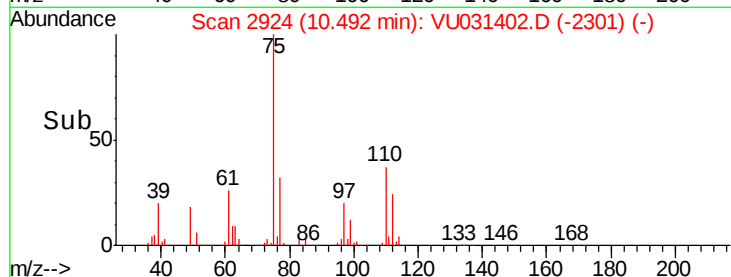
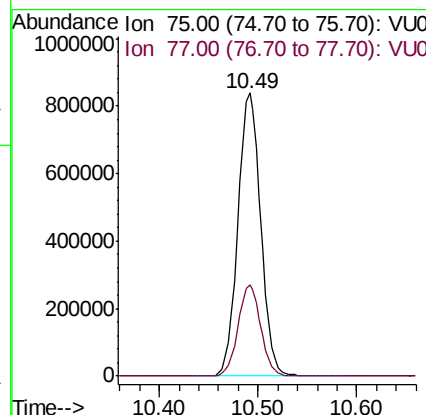
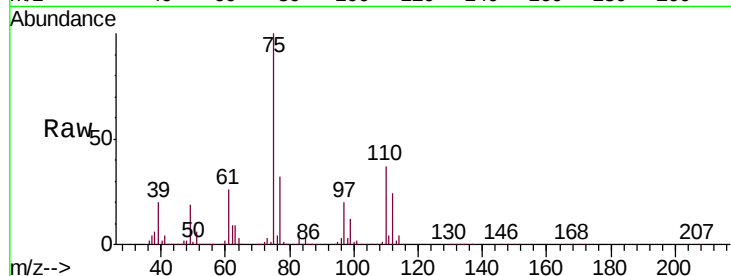




#59
 1,2,3-Trichloropropane
 Concen: 181.418 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

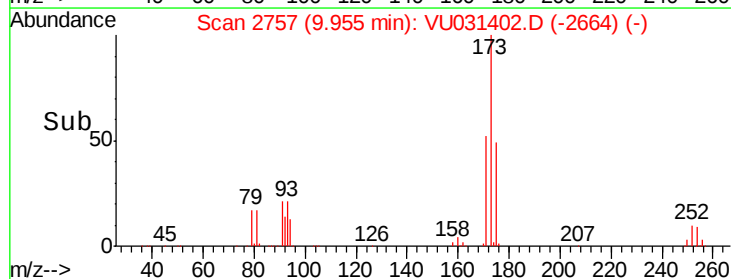
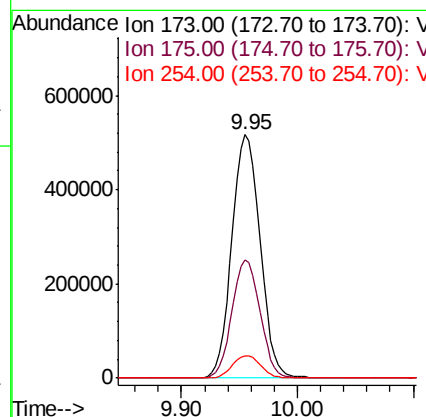
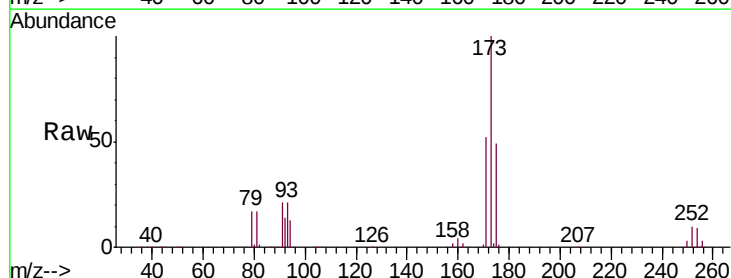
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

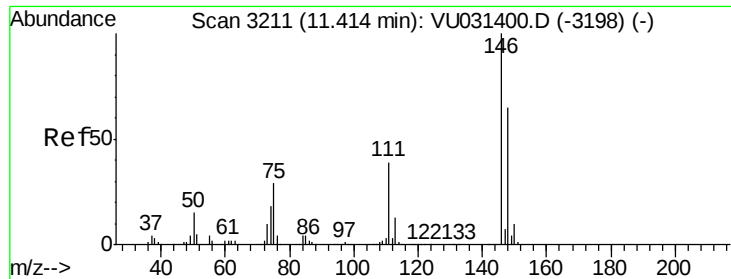
Tgt Ion: 75 Resp: 1347964
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.6 38.4



#61
 Bromoform
 Concen: 186.627 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion: 173 Resp: 876110
 Ion Ratio Lower Upper
 173 100
 175 48.2 38.6 57.8
 254 9.3 7.7 11.5

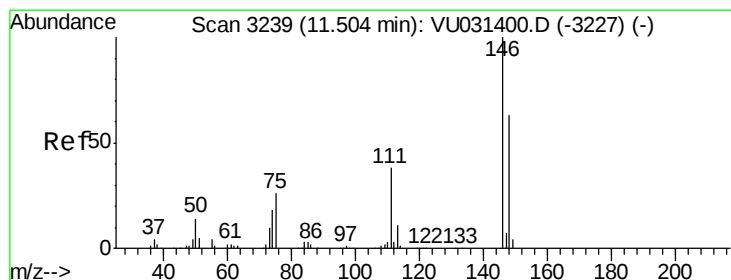
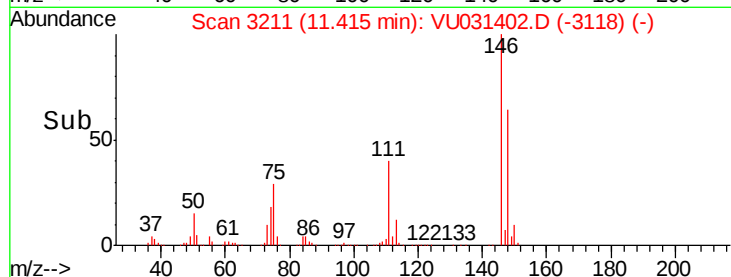
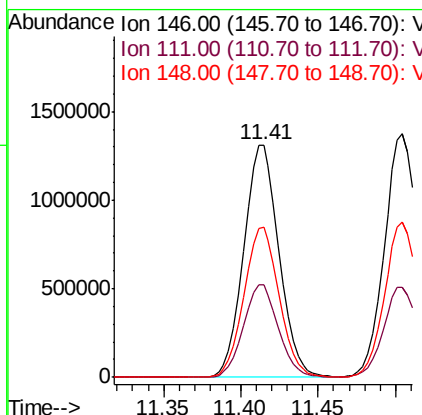
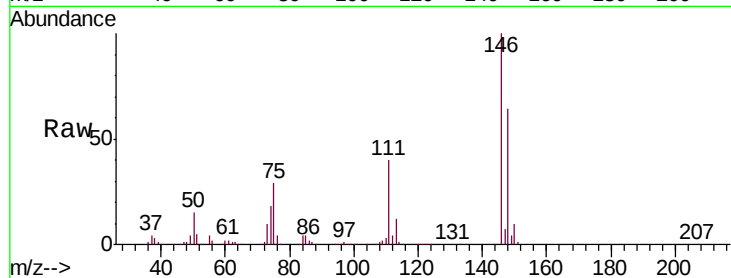




#62
 1,3-Dichlorobenzene
 Concen: 184.122 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

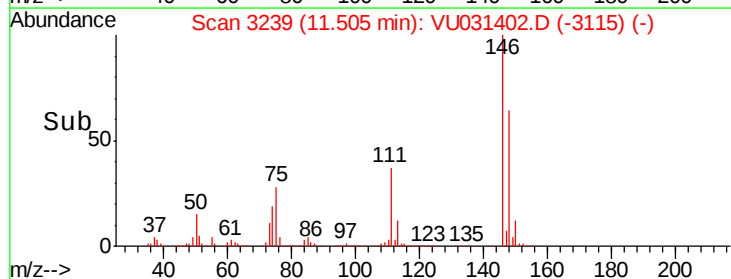
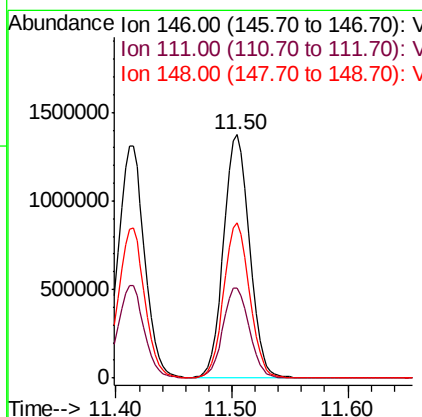
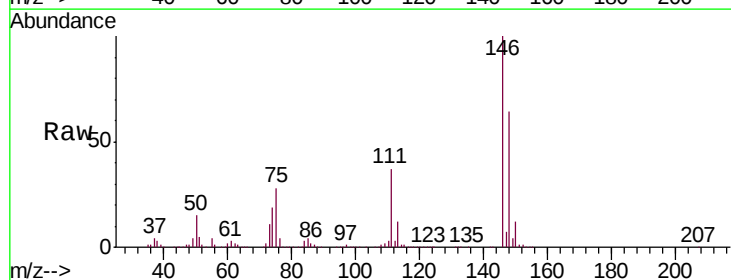
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

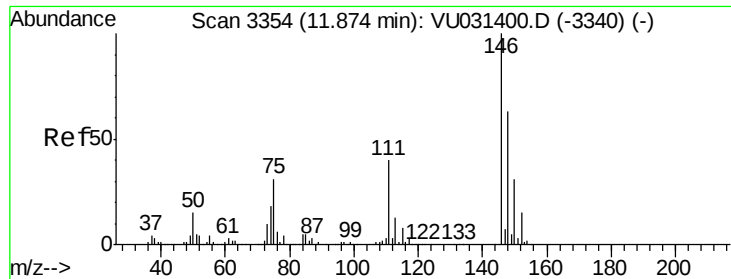
Tgt Ion:146 Resp: 2079057
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.4 50.8
 148 64.4 45.4 84.4



#63
 1,4-Dichlorobenzene
 Concen: 187.715 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion:146 Resp: 2118052
 Ion Ratio Lower Upper
 146 100
 111 37.2 26.6 49.4
 148 63.6 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 176.366 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

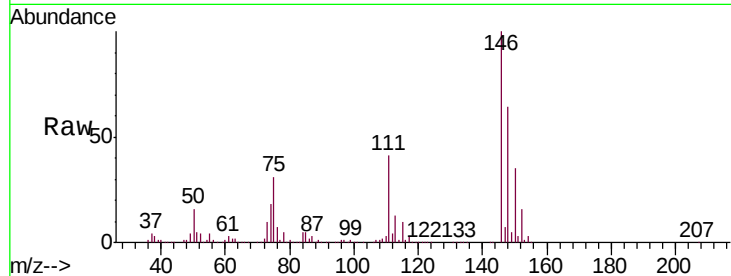
Tgt Ion:146 Resp: 2088219

Ion Ratio Lower Upper

146 100

111 40.9 32.4 48.6

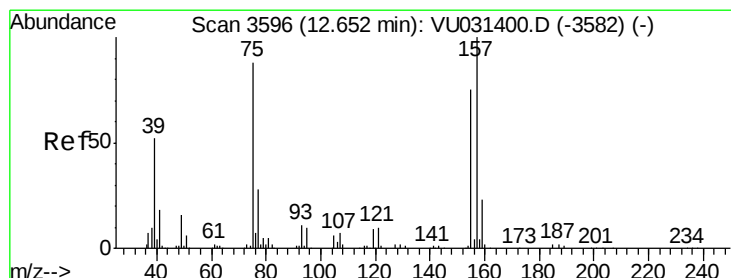
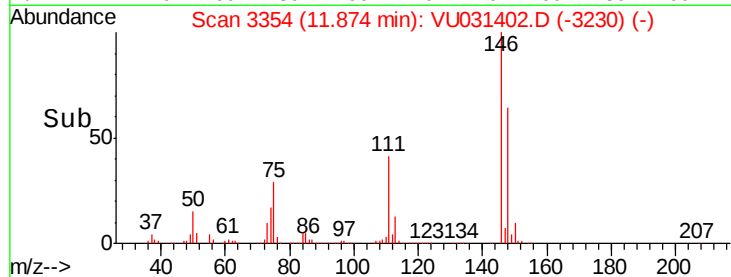
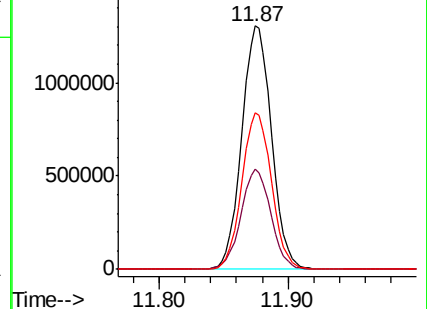
148 64.4 50.7 76.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 170.878 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

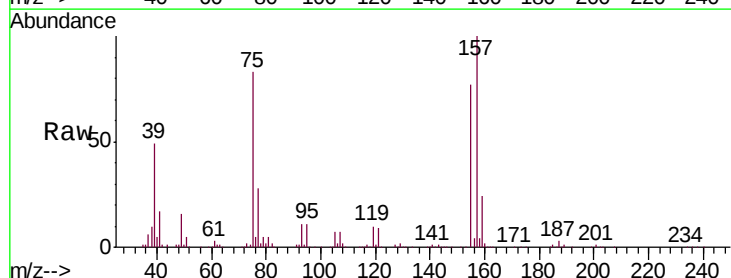
Tgt Ion: 75 Resp: 387225

Ion Ratio Lower Upper

75 100

155 92.4 68.8 103.2

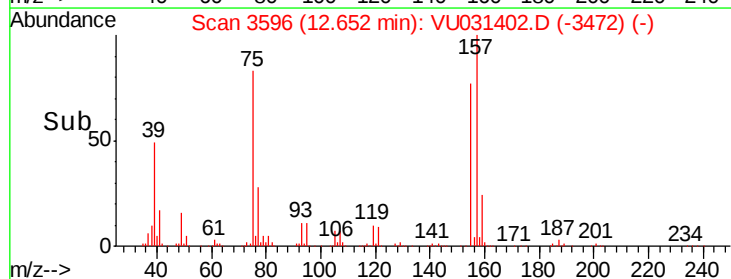
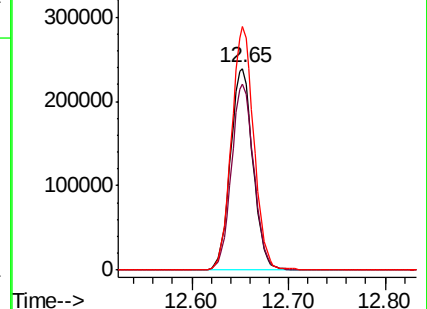
157 120.7 91.4 137.2

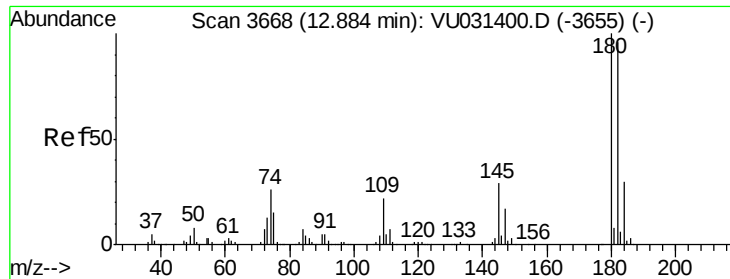


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

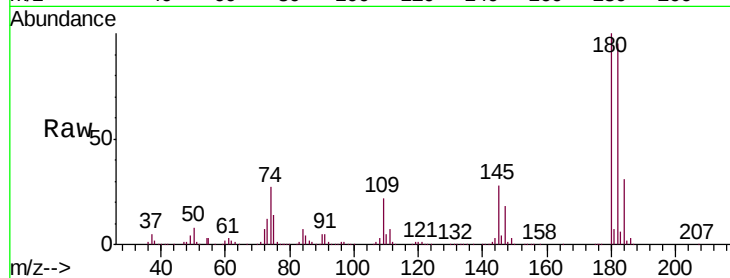




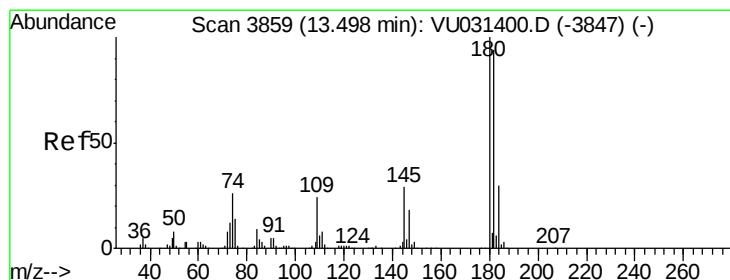
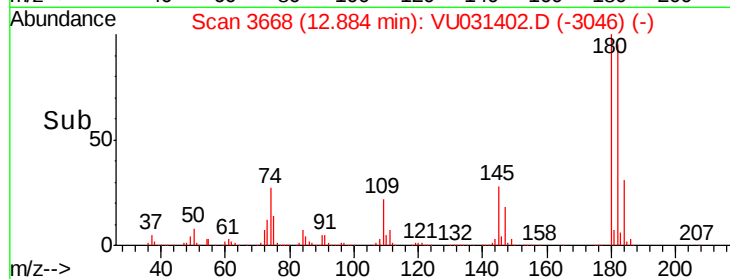
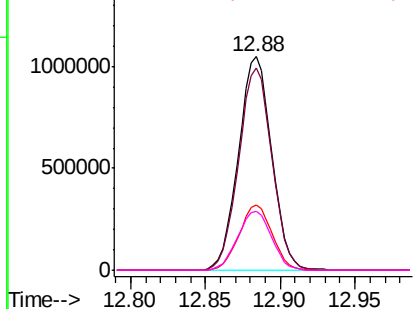
#67
 1,3,5-Trichlorobenzene
 Concen: 192.153 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20052

Tgt Ion:180 Resp: 1621078
 Ion Ratio Lower Upper
 180 100
 182 94.9 76.5 114.7
 184 30.5 23.7 35.5
 145 28.3 22.9 34.3

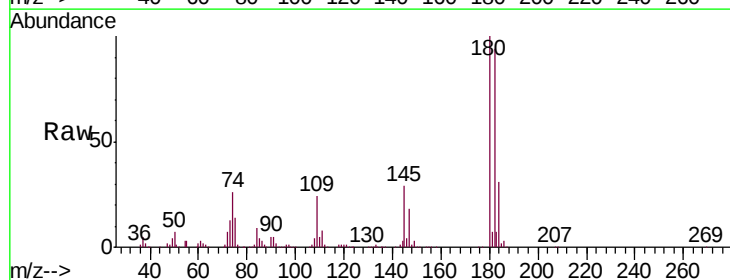


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

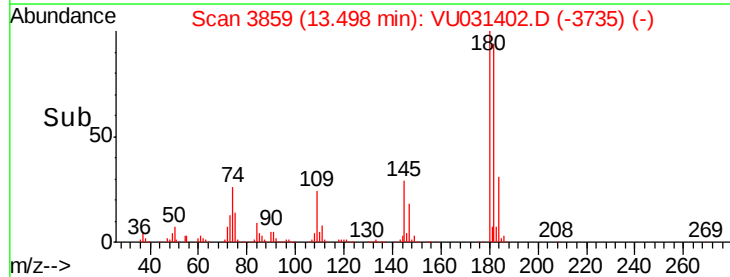
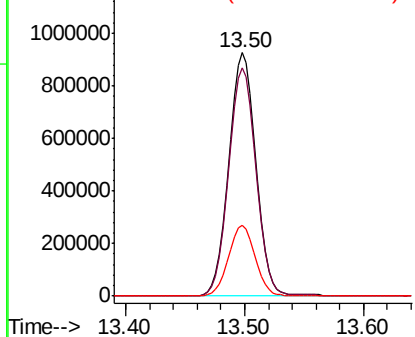


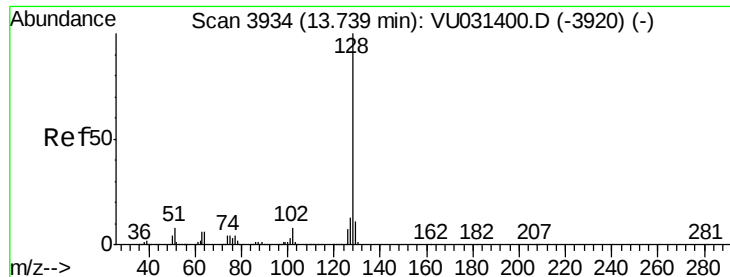
#68
 1,2,4-trichlorobenzene
 Concen: 215.159 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031402.D
 Acq: 22 Apr 2019 19:00

Tgt Ion:180 Resp: 1463219
 Ion Ratio Lower Upper
 180 100
 182 95.0 77.5 116.3
 145 28.8 23.3 34.9



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: 222.506 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD20052

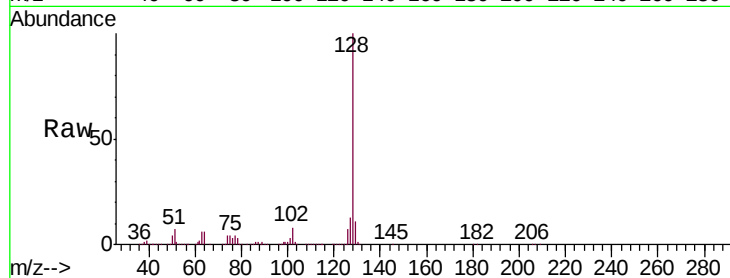
Tgt Ion:128 Resp: 4809566

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.4

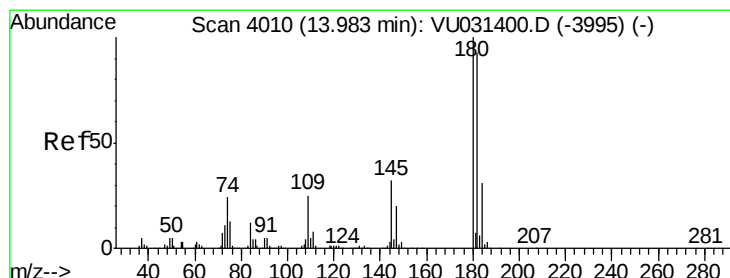
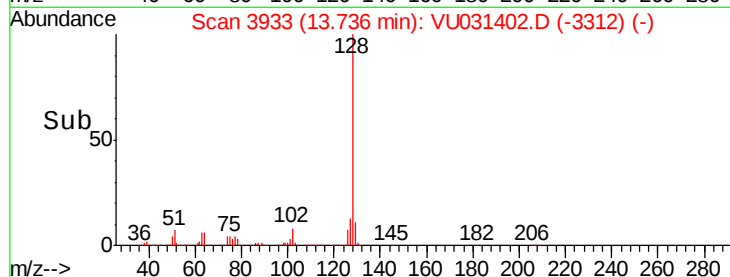
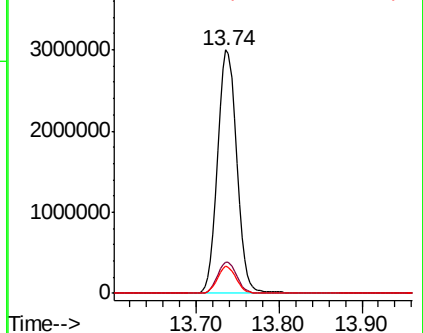
129 10.8 8.6 13.0



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: 196.554 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU031402.D

Acq: 22 Apr 2019 19:00

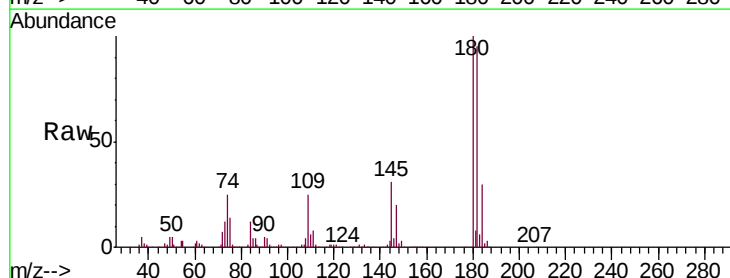
Tgt Ion:180 Resp: 1455970

Ion Ratio Lower Upper

180 100

182 95.5 75.8 113.8

145 30.9 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

