

Data File : VU030341.D
Acq On : 23 Mar 2019 14:59
Operator : JC/SP
Sample : VSTD20049
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20049

Quant Time: Mar 24 01:47:23 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 01:42:13 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	452442	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	448863	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	228537	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	705549	221.45	ug/L	0.00
7) Chloroethane-d5	1.66	69	548172	215.96	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.27	63	1330479	225.94	ug/L	0.00
21) 2-Butanone-d5	4.17	46	1423358	560.55	ug/L	0.00
24) Chloroform-d	4.64	84	1237363	212.95	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	790451	232.33	ug/L	0.00
32) Benzene-d6	5.34	84	2515209	208.11	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.33	67	883055	230.22	ug/L	0.00
41) Toluene-d8	7.56	98	2314491	205.13	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	437376	236.74	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	1045255	519.46	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	1266176	219.16	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	876901	191.02	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	901573	220.389	ug/L	99
3) Chloromethane	1.33	50	1009148	244.547	ug/L	100
5) Vinyl chloride	1.40	62	972567	230.134	ug/L	100
6) Bromomethane	1.60	94	466531	213.037	ug/L	99
8) Chloroethane	1.68	64	535531	216.613	ug/L	99
9) Trichlorofluoromethane	1.88	101	1047869	202.288	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	600747	193.330	ug/L	100
12) 1,1-Dichloroethene	2.28	96	594465	193.346	ug/L	94
13) Acetone	2.32	43	1129522	428.794	ug/L	100
14) Carbon disulfide	2.47	76	1978214	210.659	ug/L	100
15) Methyl Acetate	2.61	43	990166	256.360	ug/L	# 100
16) Methylene chloride	2.70	84	702998	199.656	ug/L	100
17) trans-1,2-Dichloroethene	2.98	96	626793	192.728	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	2141219	222.596	ug/L	99
19) 1,1-Dichloroethane	3.44	63	1298282	224.223	ug/L	100
20) cis-1,2-Dichloroethene	4.22	96	710405	199.223	ug/L	99
22) 2-Butanone	4.26	43	1600812	511.346	ug/L	100
23) Bromochloromethane	4.55	128	327547	176.559	ug/L	94
25) Chloroform	4.67	83	1213386	204.999	ug/L	99
27) 1,2-Dichloroethane	5.40	62	969371	225.189	ug/L	99
29) Cyclohexane	4.99	56	1298287	246.294	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	1000008	201.831	ug/L	99
31) Carbon tetrachloride	5.13	117	867142	198.405	ug/L	98
33) Benzene	5.39	78	2819394	210.084	ug/L	100
34) Trichloroethene	6.18	95	692018	198.300	ug/L	98
35) Methylcyclohexane	6.41	83	1177362	214.702	ug/L	97
37) 1,2-Dichloropropane	6.43	63	791437	225.357	ug/L	100
38) Bromodichloromethane	6.75	83	953534	215.338	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	1242472	224.409	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	2794520	547.431	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	2969327	205.391	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	1102166	229.561	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	671203	194.285	ug/L	99
46) Tetrachloroethene	8.22	164	490451	172.708	ug/L	98
48) 2-Hexanone	8.36	43	2271956	537.317	ug/L	99
49) Dibromochloromethane	8.48	129	730272	190.736	ug/L	98
50) 1,2-Dibromoethane	8.58	107	739340	194.279	ug/L	100
51) Chlorobenzene	9.12	112	1788204	190.057	ug/L	99
52) Ethylbenzene	9.25	91	3286579	208.988	ug/L	99
53) m,p-Xylene	9.37	106	1194434	200.917	ug/L	98
54) o-xylene	9.77	106	1171812	200.157	ug/L	99
55) Styrene	9.79	104	2082019	209.068	ug/L	96
56) Isopropylbenzene	10.16	105	3106813	204.010	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	1265320	210.795	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	982597	210.741	ug/L	100
61) Bromoform	9.95	173	566819	191.198	ug/L	100
62) 1,3-Dichlorobenzene	11.41	146	1381641	188.549	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	1394788	183.695	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	1363248	182.480	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	307222	230.366	ug/L	98
67) 1,3,5-Trichlorobenzene	12.88	180	1059743	186.230	ug/L	100
68) 1,2,4-trichlorobenzene	13.50	180	974797	194.055	ug/L	99
69) Naphthalene	13.74	128	3218936	200.012	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	966013	185.351	ug/L	99

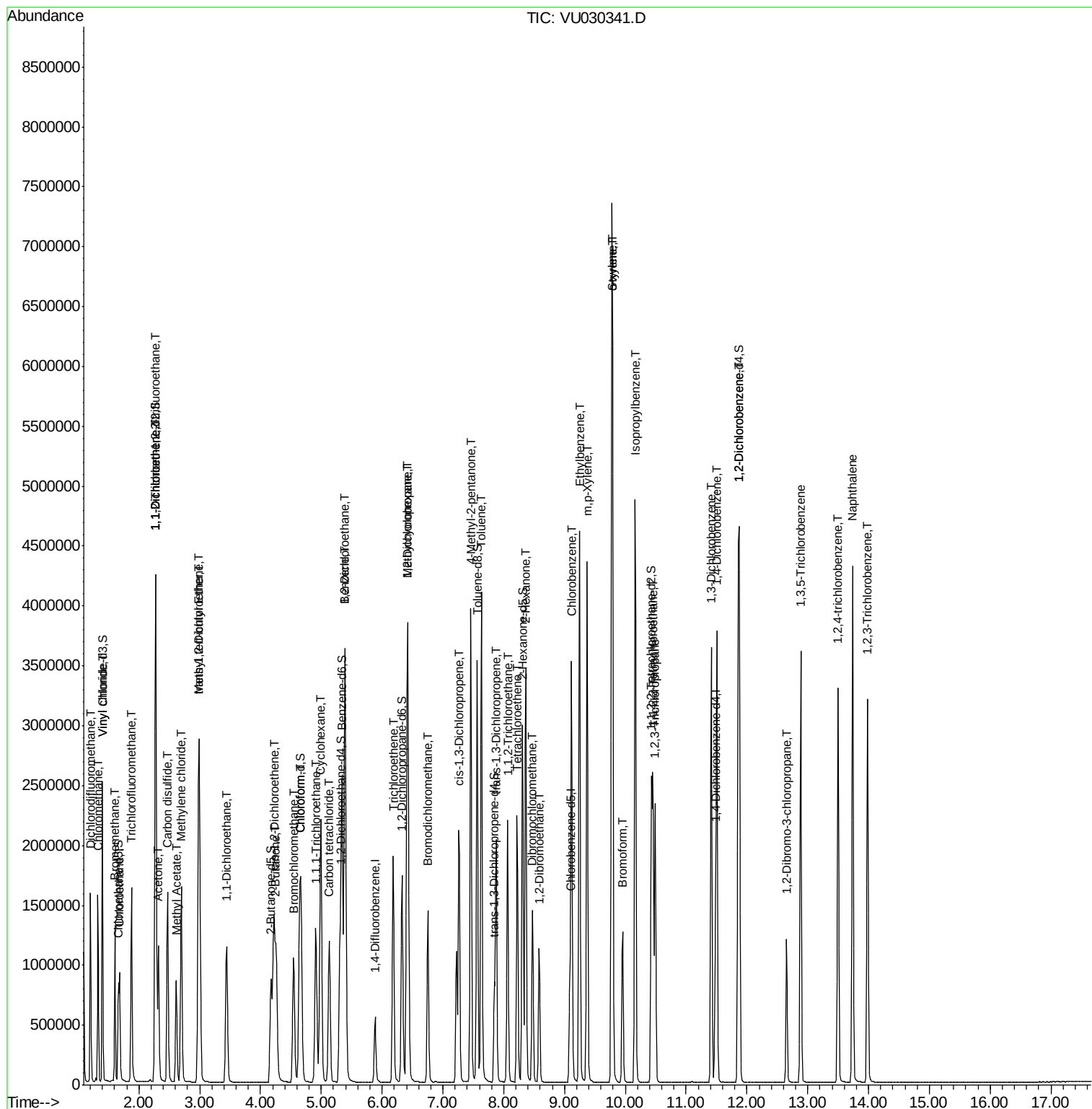
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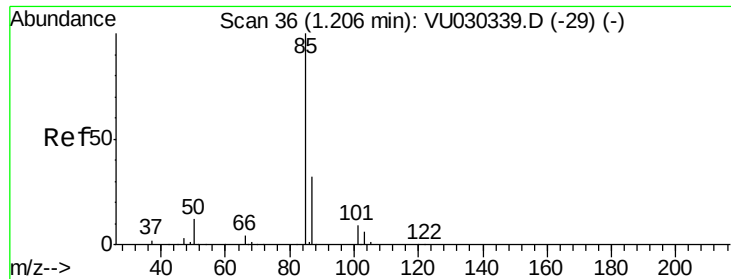
Data File : VU030341.D

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#2

Dichlorodifluoromethane

Concen: 220.389 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

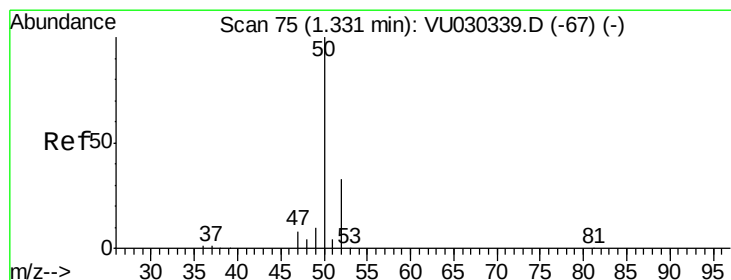
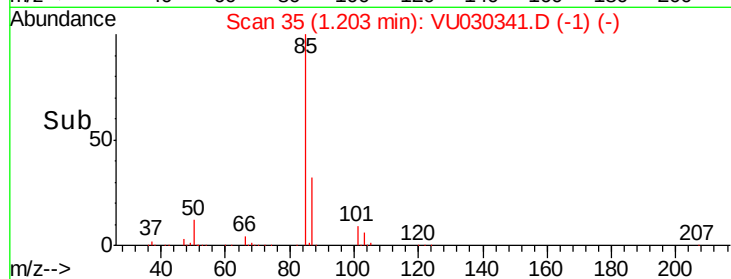
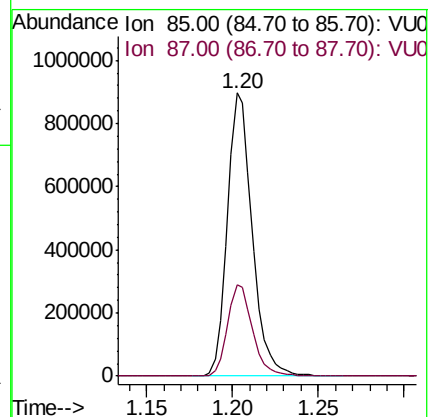
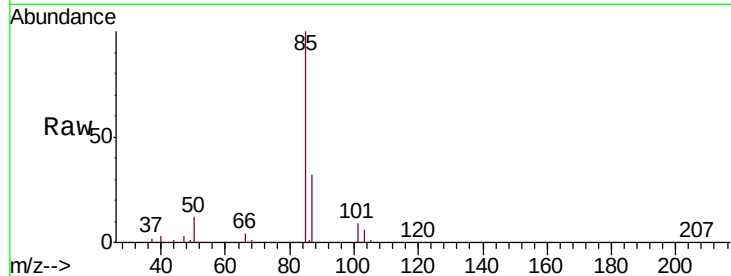
VSTD20049

Tgt Ion: 85 Resp: 901573

Ion Ratio Lower Upper

85 100

87 32.3 25.5 38.3



#3

Chloromethane

Concen: 244.547 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030341.D

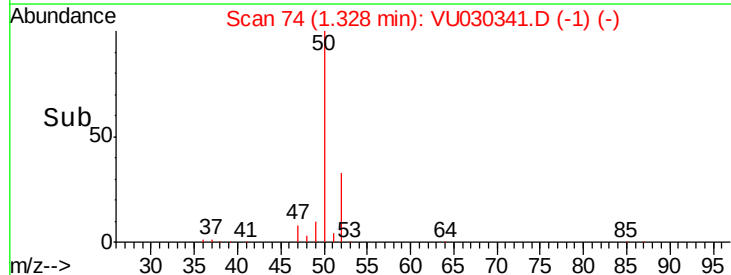
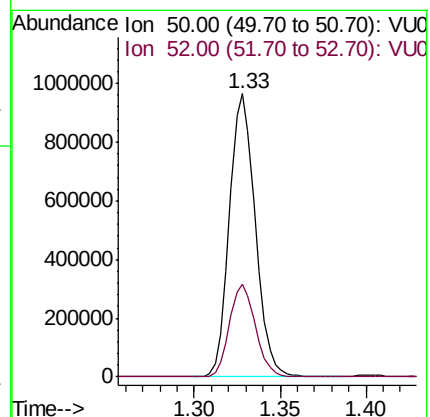
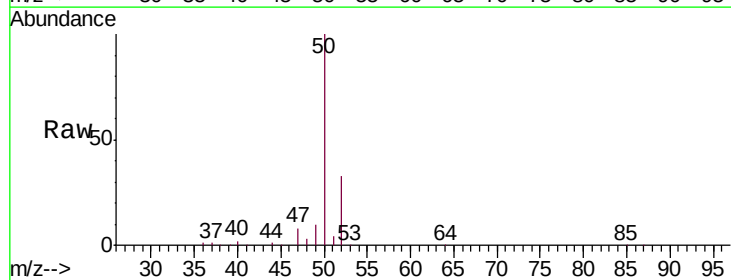
Acq: 23 Mar 2019 14:59

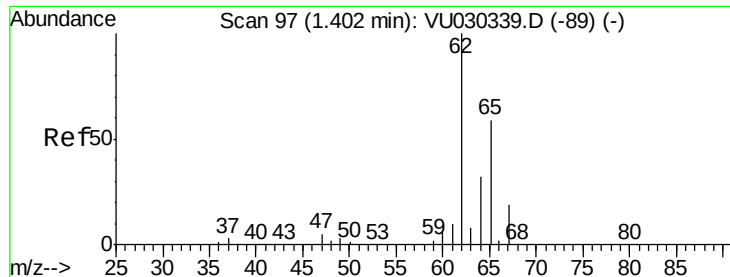
Tgt Ion: 50 Resp: 1009148

Ion Ratio Lower Upper

50 100

52 33.0 23.0 42.6





#5

Vinyl chloride

Concen: 230.134 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

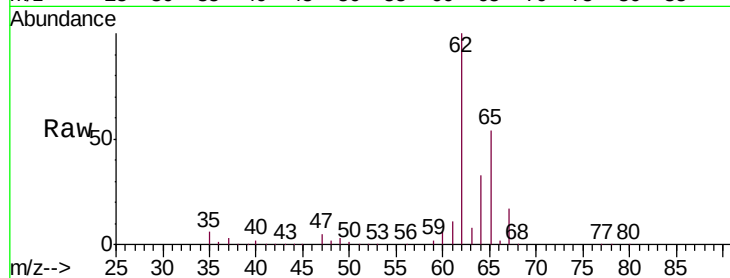
VSTD20049

Tgt Ion: 62 Resp: 972567

Ion Ratio Lower Upper

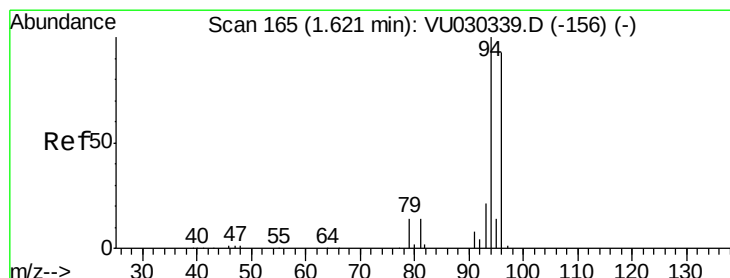
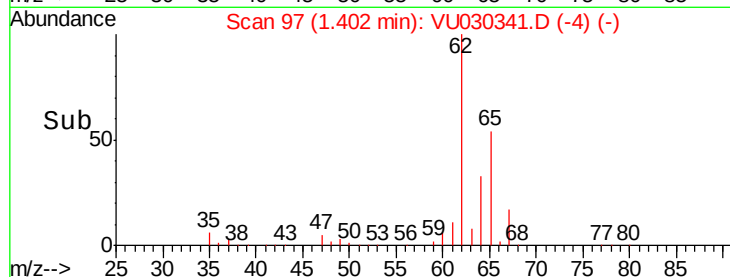
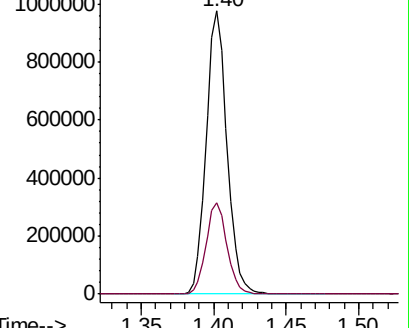
62 100

64 32.5 22.6 42.0



Abundance Ion 62.00 (61.70 to 62.70): VU030339.D (-89) (-)

Ion 64.00 (63.70 to 64.70): VU030339.D (-89) (-)



#6

Bromomethane

Concen: 213.037 ug/L

RT: 1.60 min Scan# 160

Delta R.T. -0.02 min

Lab File: VU030341.D

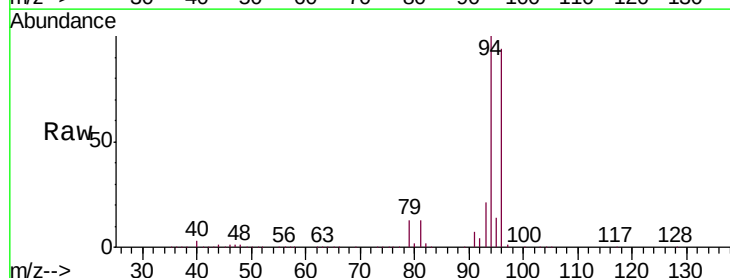
Acq: 23 Mar 2019 14:59

Tgt Ion: 94 Resp: 466531

Ion Ratio Lower Upper

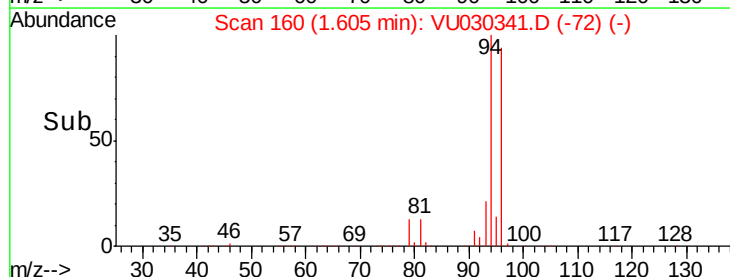
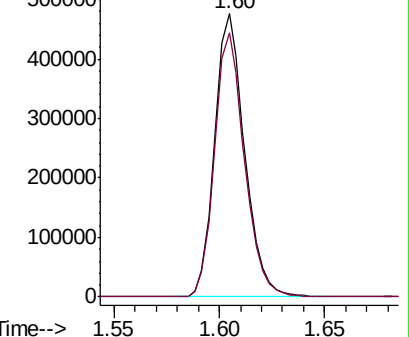
94 100

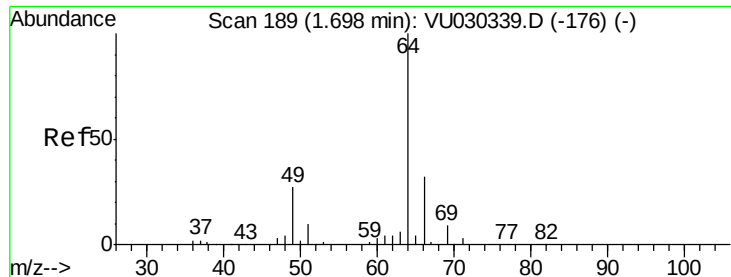
96 93.5 64.8 120.3



Abundance Ion 94.00 (93.70 to 94.70): VU030339.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU030339.D (-156) (-)





#8

Chloroethane

Concen: 216.613 ug/L

RT: 1.68 min Scan# 184

Delta R.T. -0.02 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

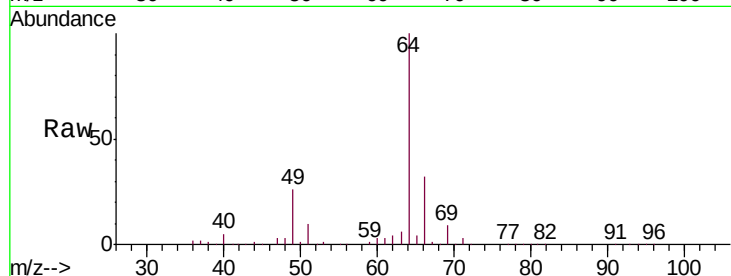
VSTD20049

Tgt Ion: 64 Resp: 535531

Ion Ratio Lower Upper

64 100

66 31.5 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030339.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU030339.D (-176) (-)

1.68

400000

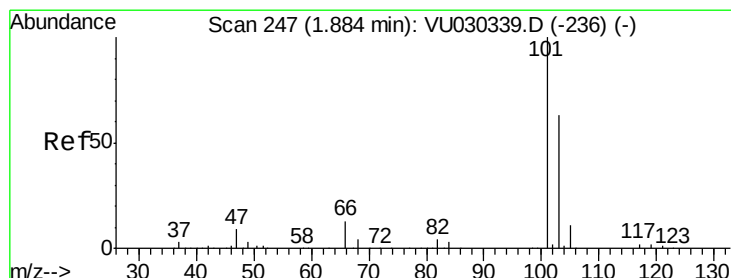
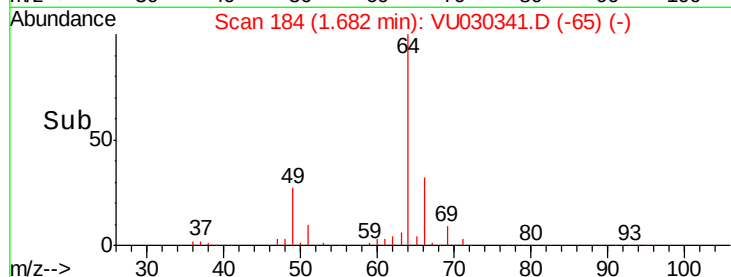
300000

200000

100000

0

Time-->



#9

Trichlorofluoromethane

Concen: 202.288 ug/L

RT: 1.88 min Scan# 245

Delta R.T. -0.01 min

Lab File: VU030341.D

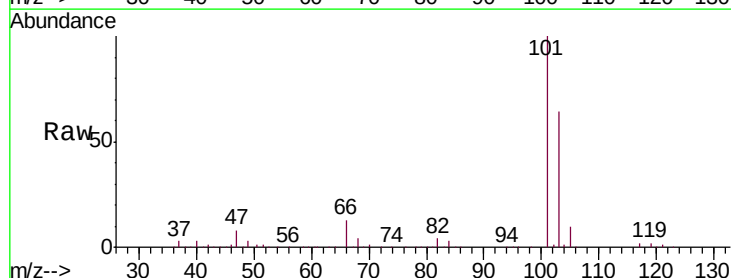
Acq: 23 Mar 2019 14:59

Tgt Ion: 101 Resp: 1047869

Ion Ratio Lower Upper

101 100

103 64.1 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030339.D (-236) (-)

Ion 103.00 (102.70 to 103.70): VU030339.D (-236) (-)

1.88

800000

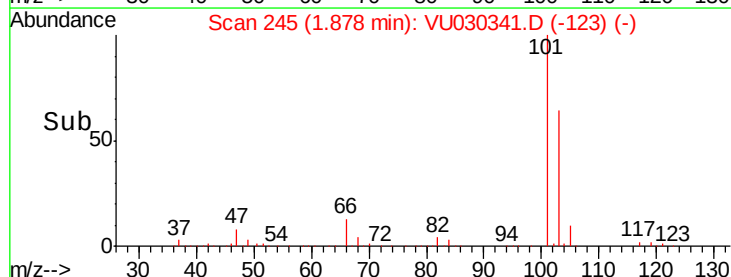
600000

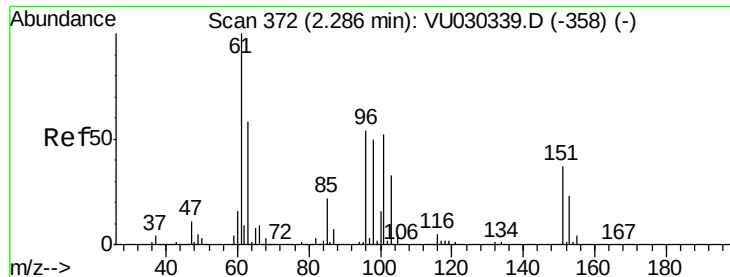
400000

200000

0

Time-->





#10

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

Concen: 193.330 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

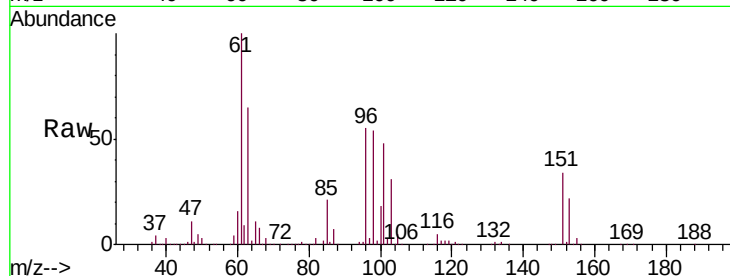
Tgt Ion:101 Resp: 600747

Ion Ratio Lower Upper

101 100

85 43.7 34.8 52.2

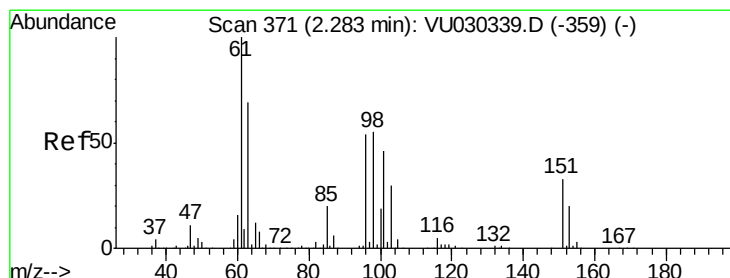
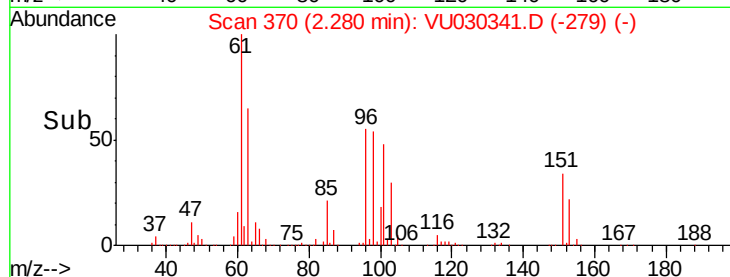
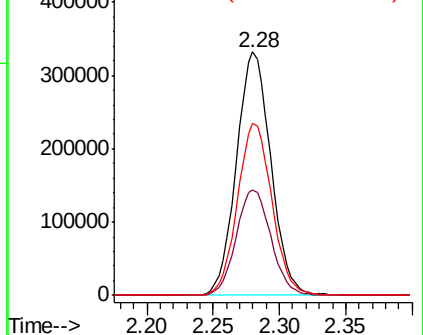
151 70.6 56.6 85.0



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: 193.346 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

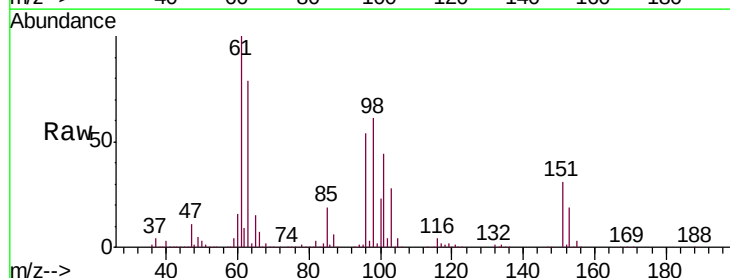
Tgt Ion: 96 Resp: 594465

Ion Ratio Lower Upper

96 100

61 186.7 131.0 243.4

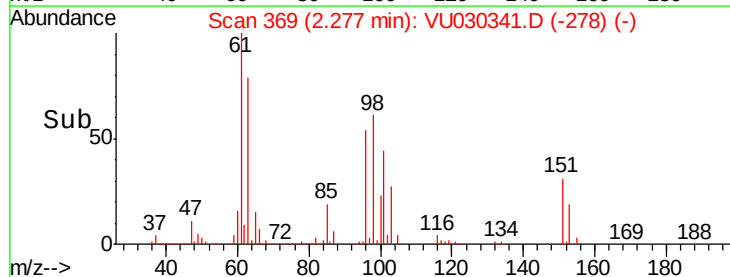
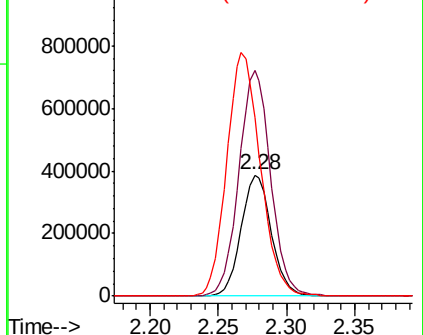
63 148.0 92.4 171.6

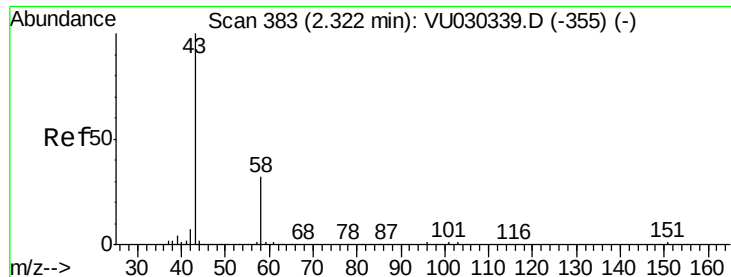


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 428.794 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

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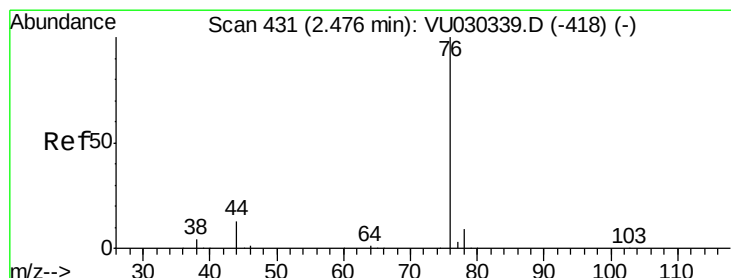
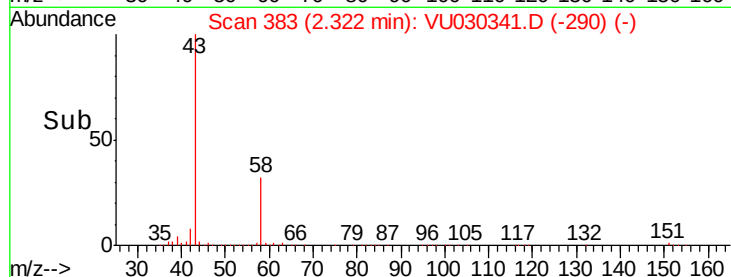
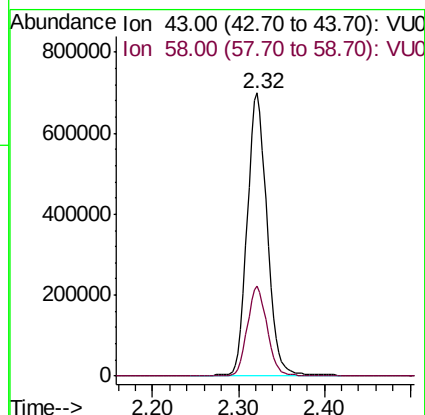
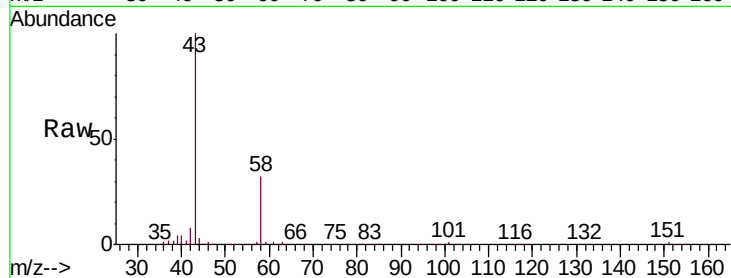
VSTD20049

Tgt Ion: 43 Resp: 1129522

Ion Ratio Lower Upper

43 100

58 31.1 0.0 62.8



#14

Carbon disulfide

Concen: 210.659 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU030341.D

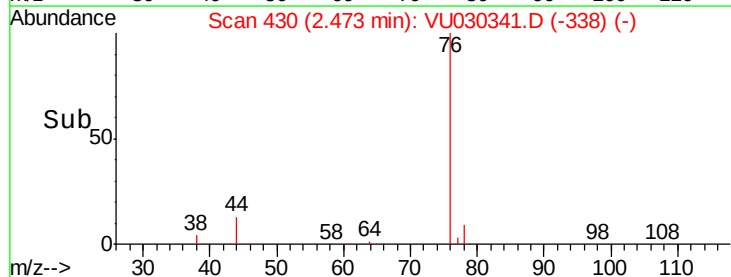
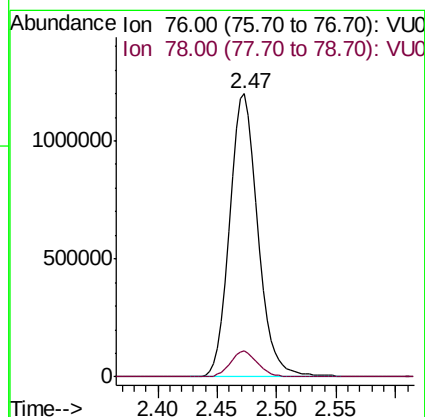
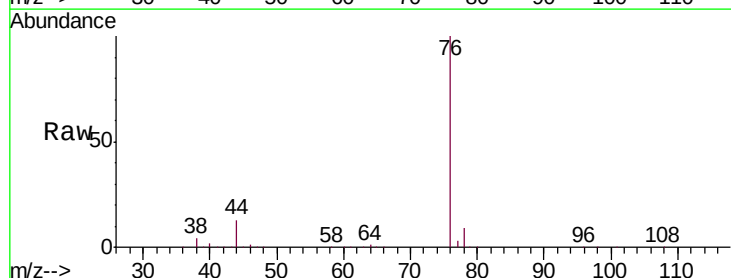
Acq: 23 Mar 2019 14:59

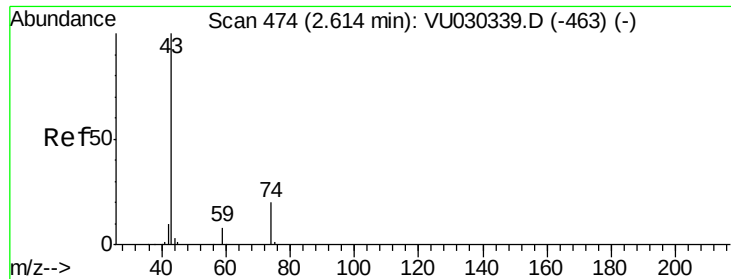
Tgt Ion: 76 Resp: 1978214

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 256.360 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

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ClientSampleId :

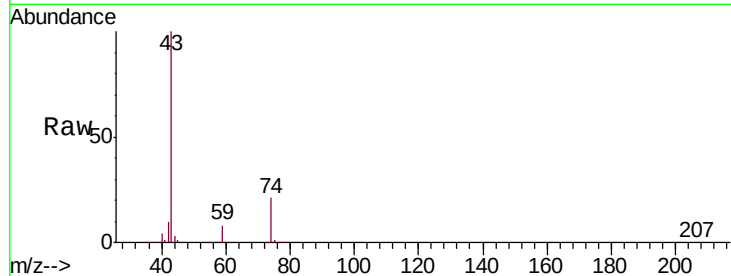
VSTD20049

Tgt Ion: 43 Resp: 990166

Ion Ratio Lower Upper

43 100

74 20.8 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU030341.D (-381) (-)

Ion 74.00 (73.70 to 74.70): VU030341.D (-381) (-)

2.61

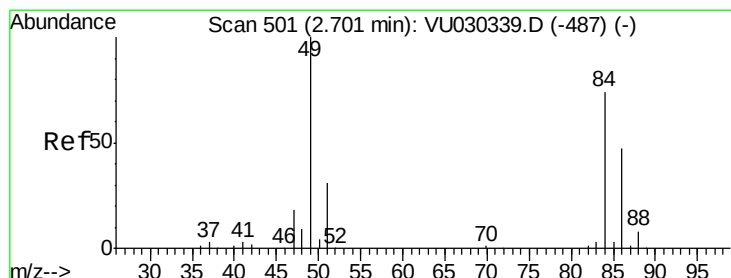
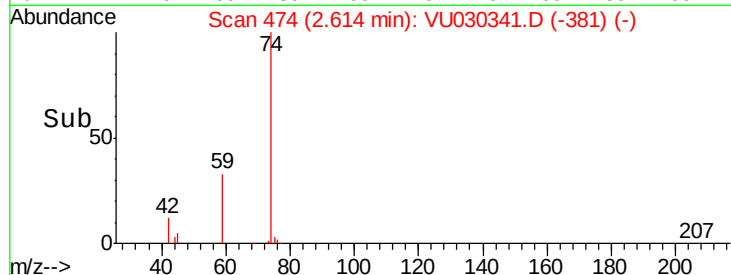
600000

400000

200000

0

Time--> 2.50 2.60 2.70



#16

Methylene chloride

Concen: 199.656 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

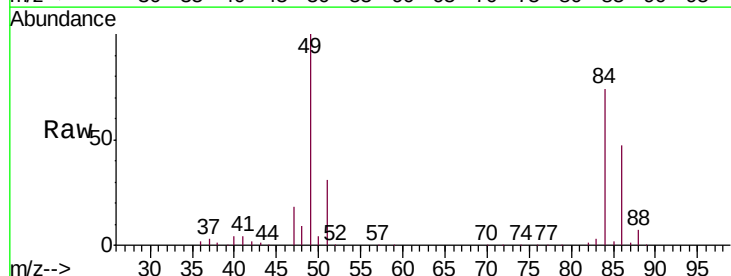
Tgt Ion: 84 Resp: 702998

Ion Ratio Lower Upper

84 100

86 63.5 44.3 82.3

49 135.0 94.9 176.3



Abundance Ion 84.00 (83.70 to 84.70): VU030341.D (-408) (-)

Ion 86.00 (85.70 to 86.70): VU030341.D (-408) (-)

Ion 49.00 (48.70 to 49.70): VU030341.D (-408) (-)

2.70

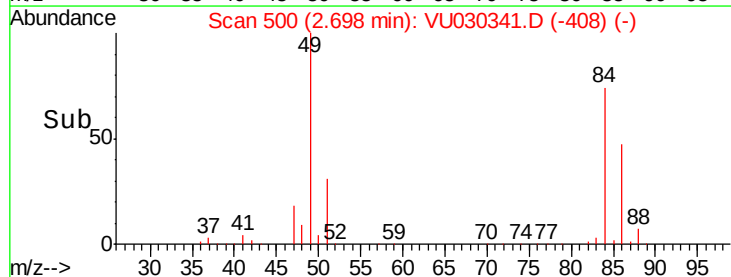
600000

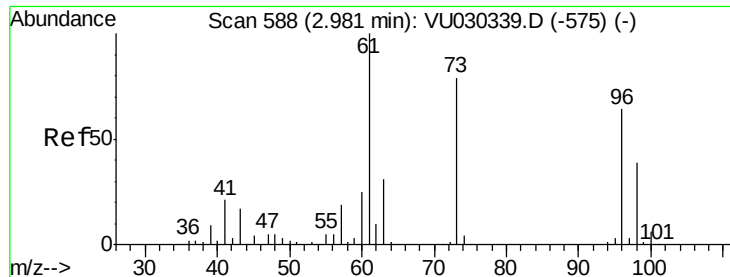
400000

200000

0

Time--> 2.60 2.70 2.80 2.90





#17

trans-1,2-Dichloroethene

Concen: 192.728 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

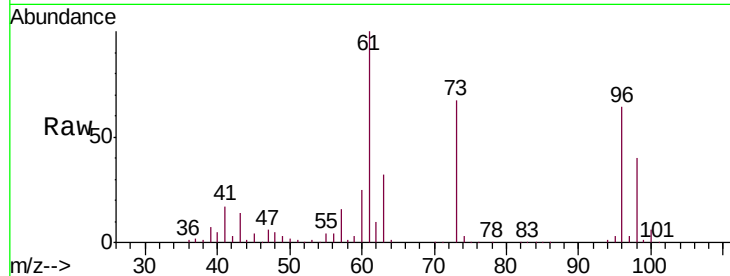
Tgt Ion: 96 Resp: 626793

Ion Ratio Lower Upper

96 100

61 157.1 108.6 201.8

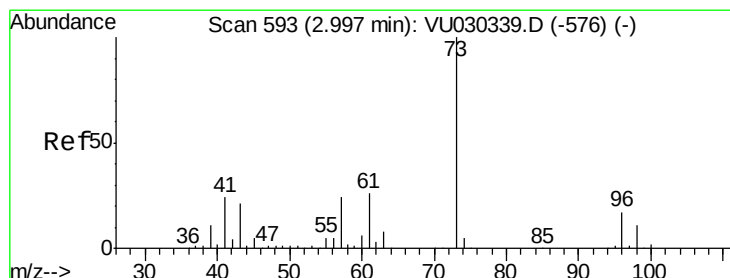
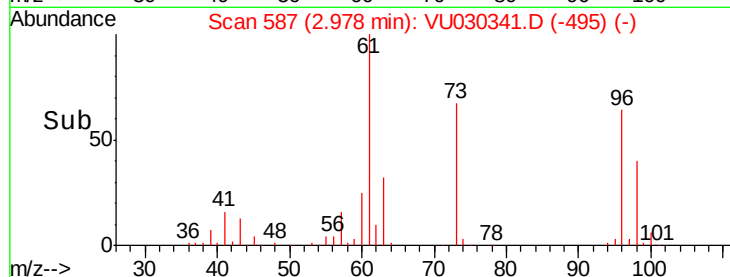
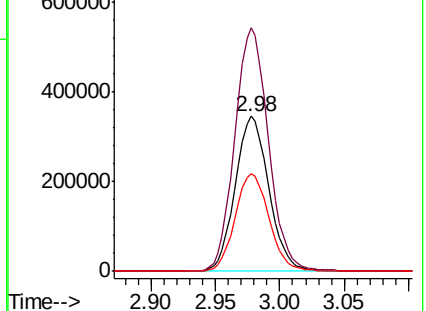
98 63.3 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030339.D (-575) (-)

Ion 61.00 (60.70 to 61.70): VU030339.D (-575) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-575) (-)



#18

Methyl tert-butyl Ether

Concen: 222.596 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

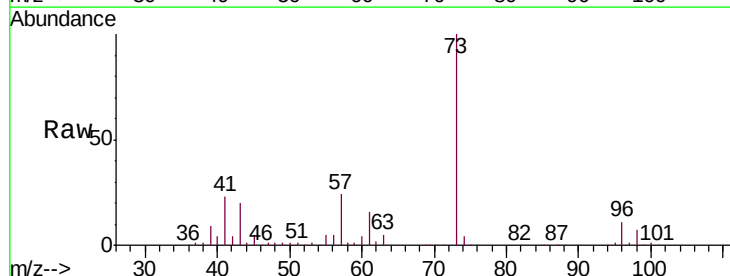
Tgt Ion: 73 Resp: 2141219

Ion Ratio Lower Upper

73 100

43 20.3 16.6 24.8

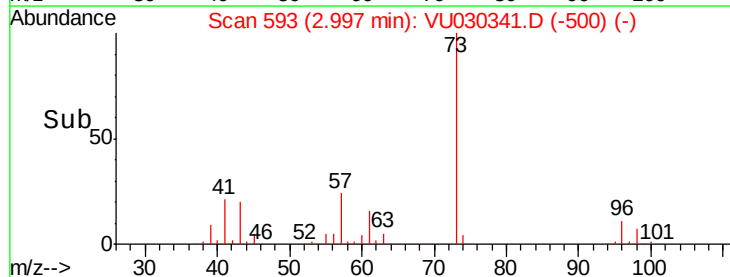
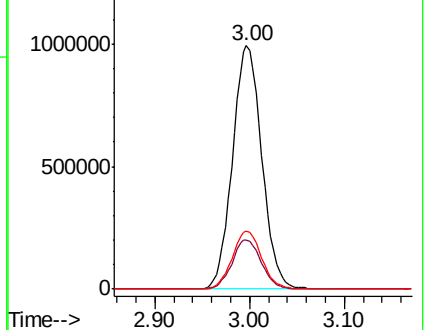
57 23.8 18.9 28.3

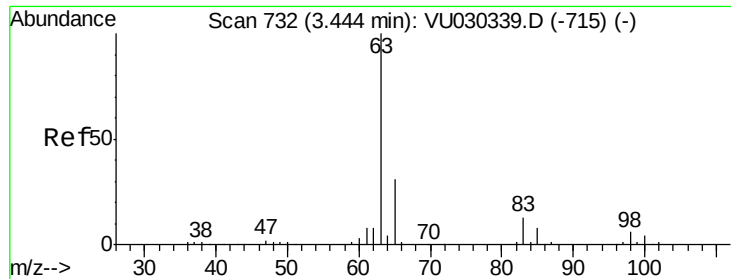


Abundance Ion 73.00 (72.70 to 73.70): VU030339.D (-576) (-)

Ion 43.00 (42.70 to 43.70): VU030339.D (-576) (-)

Ion 57.00 (56.70 to 57.70): VU030339.D (-576) (-)

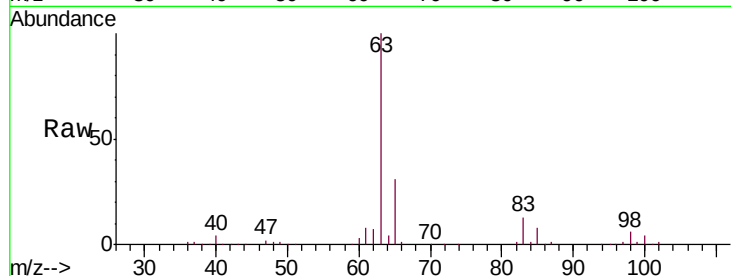




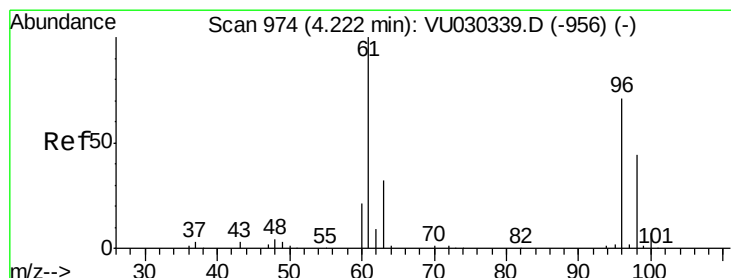
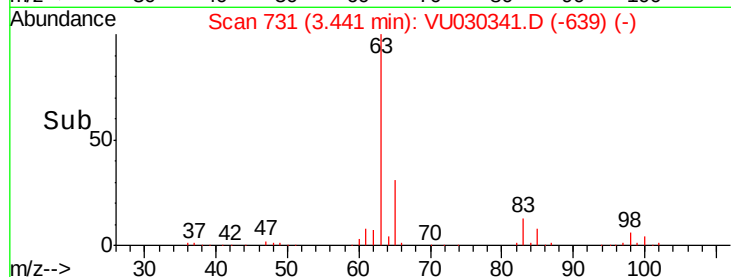
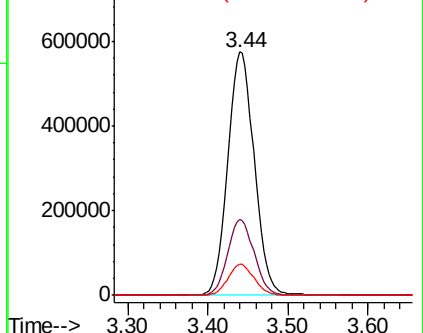
#19
 1,1-Dichloroethane
 Concen: 224.223 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. -0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

Tgt Ion: 63 Resp: 1298282
 Ion Ratio Lower Upper
 63 100
 65 31.3 22.0 40.8
 83 12.9 9.1 16.9

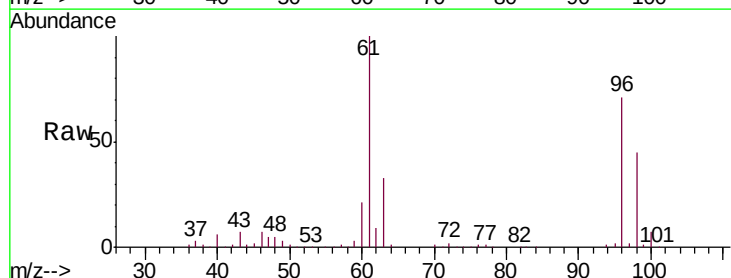


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

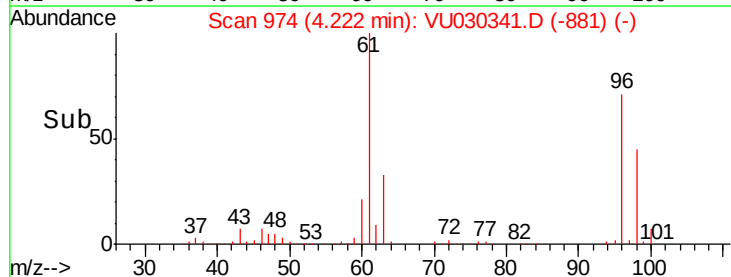
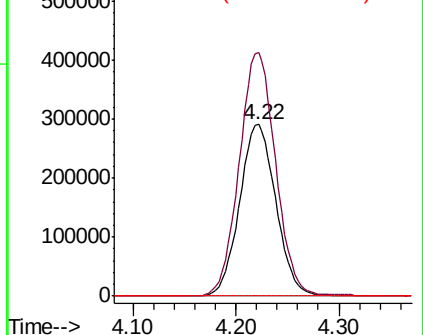


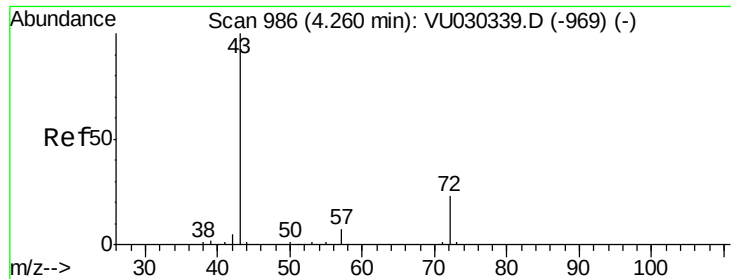
#20
 cis-1,2-Dichloroethene
 Concen: 199.223 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion: 96 Resp: 710405
 Ion Ratio Lower Upper
 96 100
 61 141.6 98.4 182.8
 68 0.0 0.0 0.0



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





#22

2-Butanone

Concen: 511.346 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

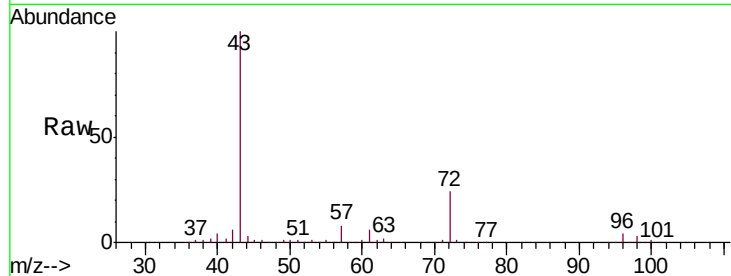
VSTD20049

Tgt Ion: 43 Resp: 1600812

Ion Ratio Lower Upper

43 100

72 24.2 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU030339.D (-969) (-)

4.26

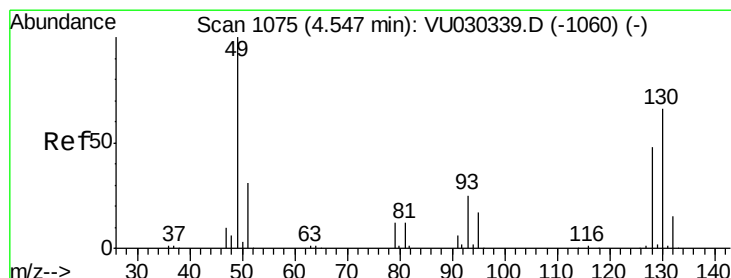
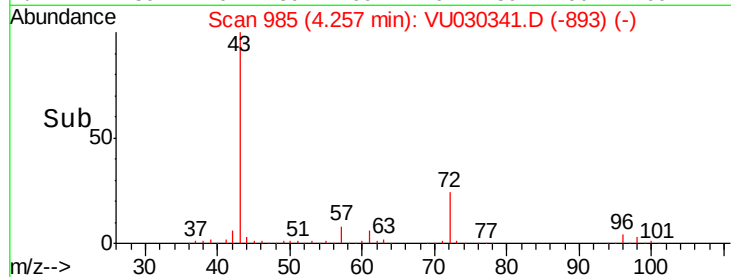
600000

400000

200000

0

Time-->



#23

Bromochloromethane

Concen: 176.559 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Tgt Ion: 128 Resp: 327547

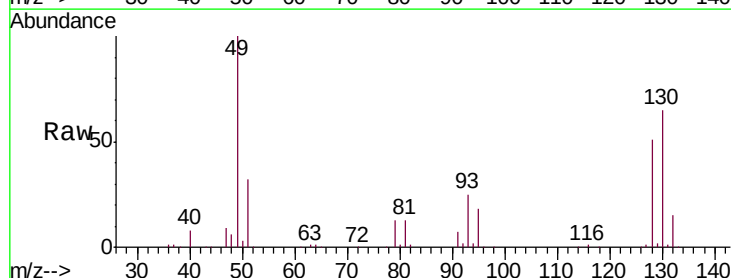
Ion Ratio Lower Upper

128 100

49 197.8 145.5 270.3

130 127.6 95.3 177.1

51 64.0 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030339.D (-1060) (-)

Ion 49.00 (48.70 to 49.70): VU030339.D (-1060) (-)

Ion 130.00 (129.70 to 130.70): VU030339.D (-1060) (-)

Ion 51.00 (50.70 to 51.70): VU030339.D (-1060) (-)

4.55

400000

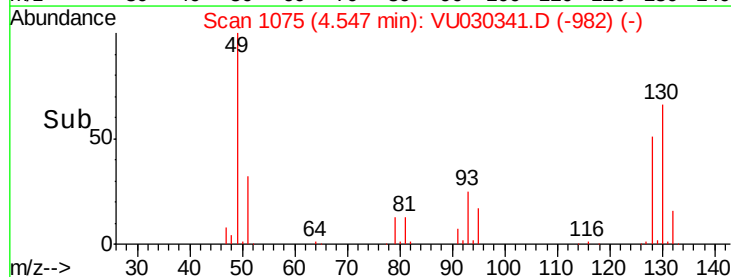
300000

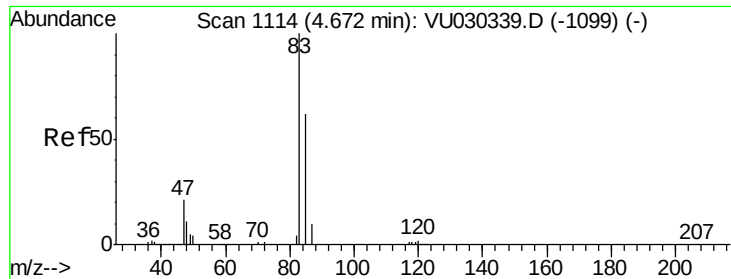
200000

100000

0

Time-->

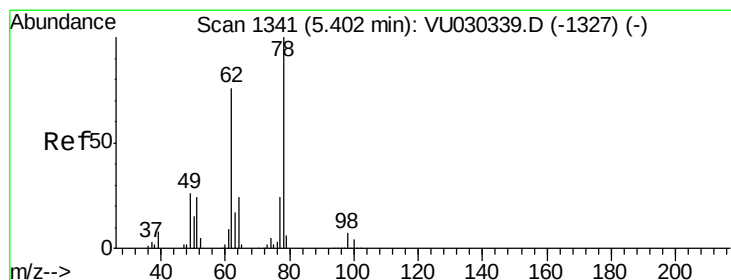
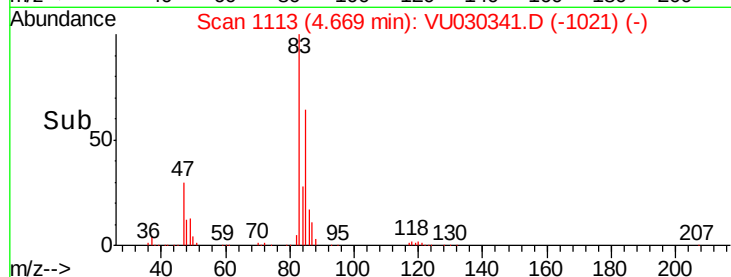
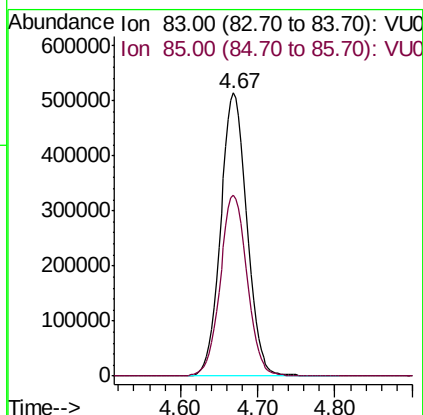
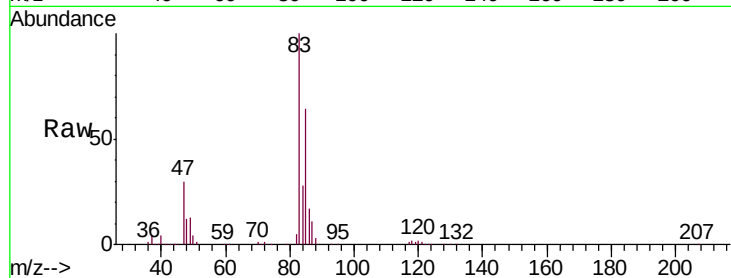




#25
Chloroform
Concen: 204.999 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

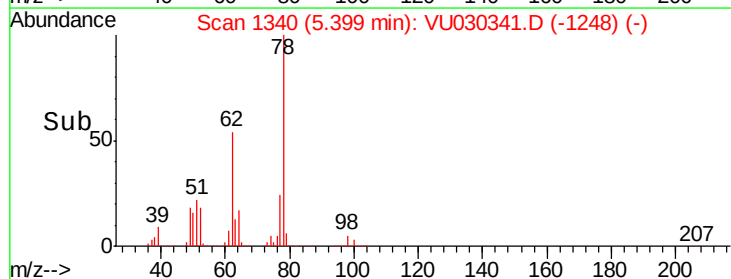
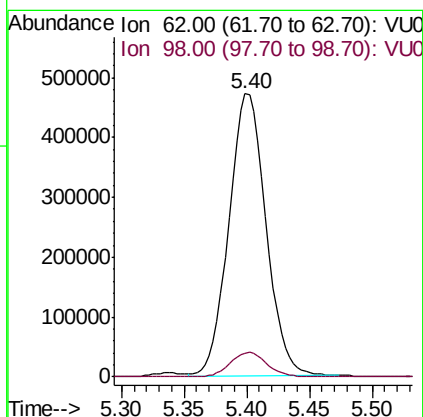
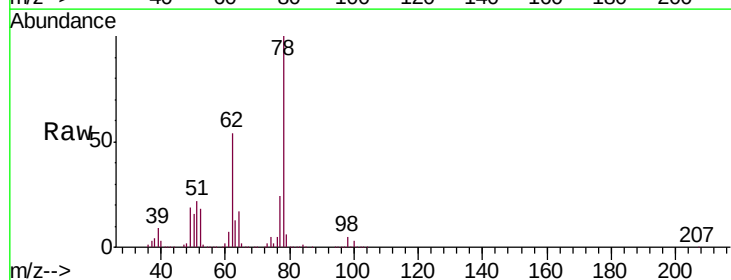
Instrument :
MSVOA_U
ClientSampleId :
VSTD20049

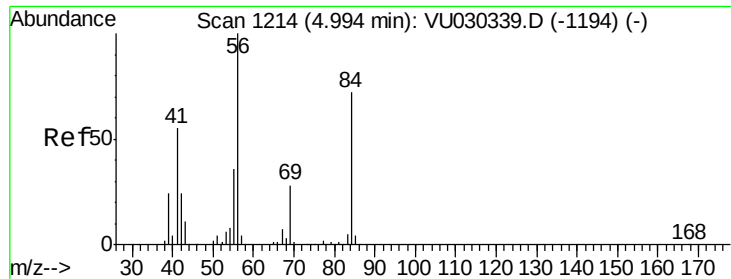
Tgt Ion: 83 Resp: 1213386
Ion Ratio Lower Upper
83 100
85 64.0 44.4 82.4



#27
1,2-Dichloroethane
Concen: 225.189 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

Tgt Ion: 62 Resp: 969371
Ion Ratio Lower Upper
62 100
98 8.5 7.2 10.8

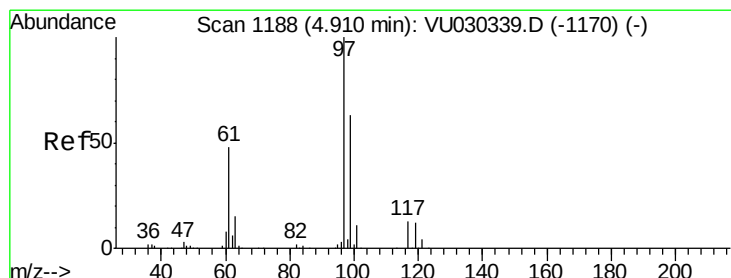
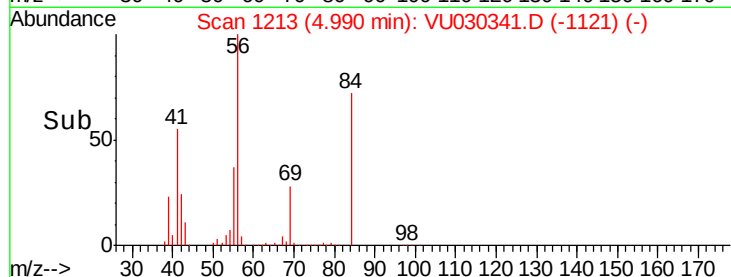
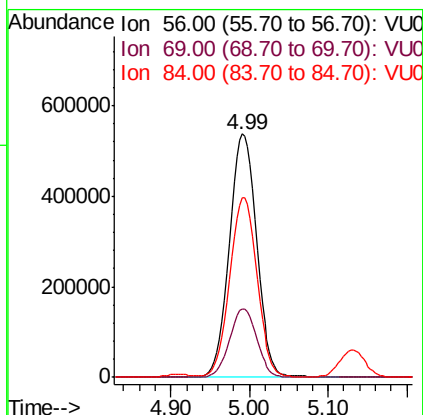
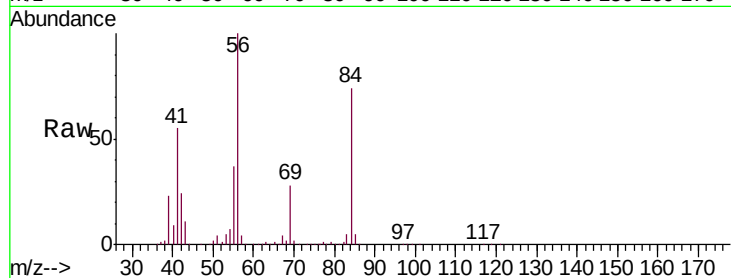




#29
Cyclohexane
Concen: 246.294 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

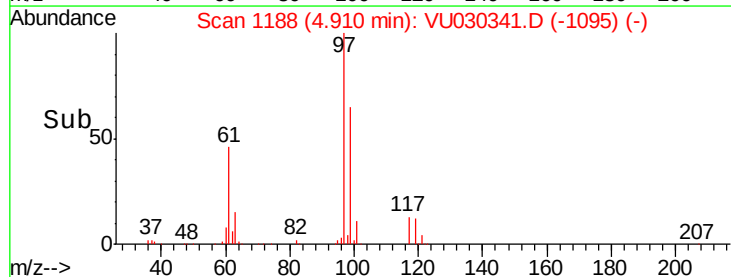
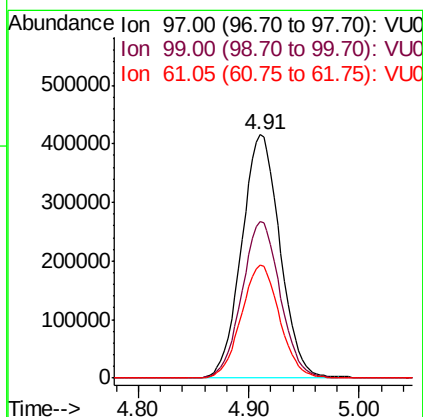
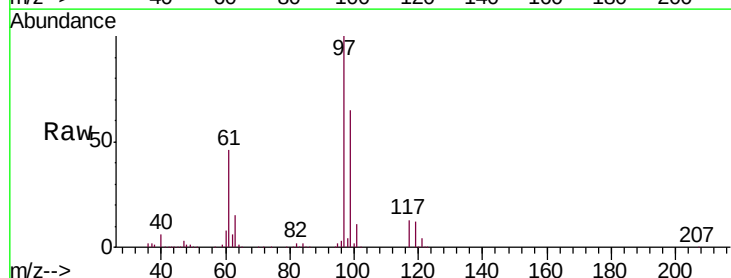
Instrument :
MSVOA_U
ClientSampleId :
VSTD20049

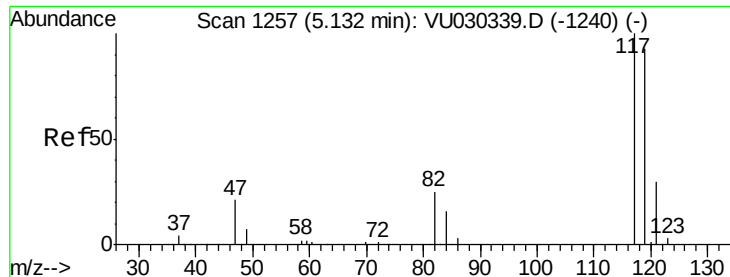
Tgt Ion: 56 Resp: 1298287
Ion Ratio Lower Upper
56 100
69 28.1 22.9 34.3
84 74.0 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 201.831 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

Tgt Ion: 97 Resp: 1000008
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 46.3 38.2 57.4





#31

Carbon tetrachloride

Concen: 198.405 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

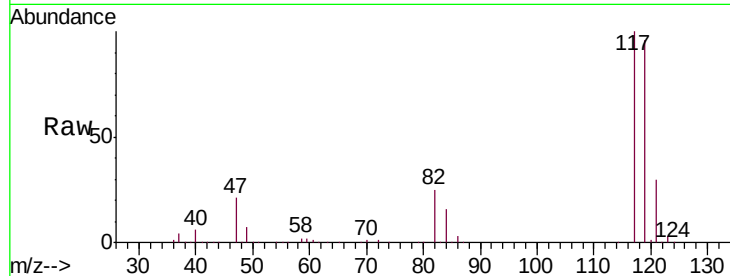
VSTD20049

Tgt Ion:117 Resp: 867142

Ion Ratio Lower Upper

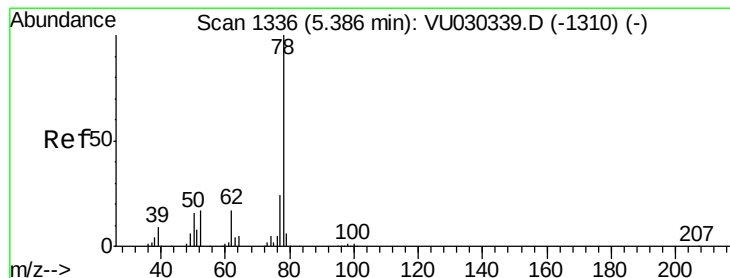
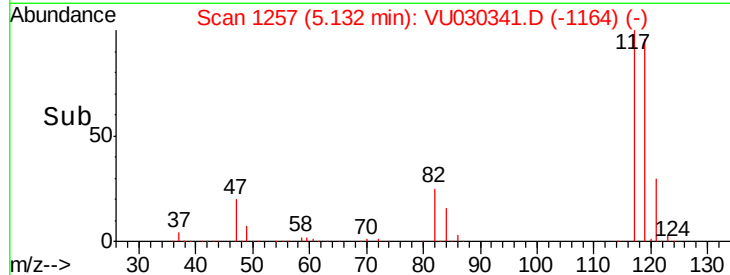
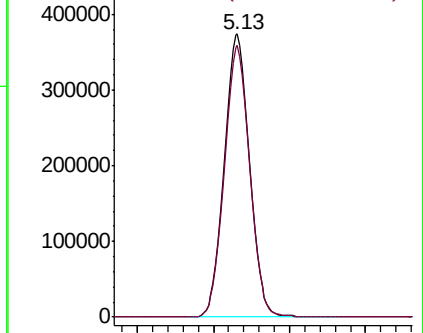
117 100

119 96.2 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 210.084 ug/L

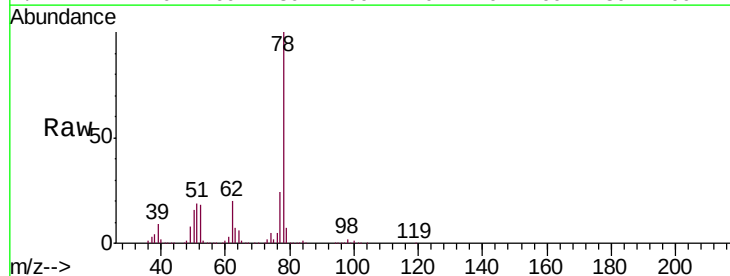
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

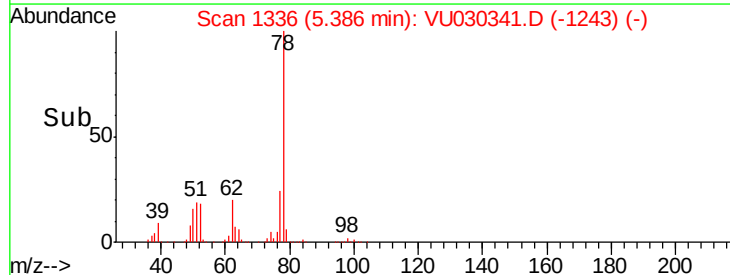
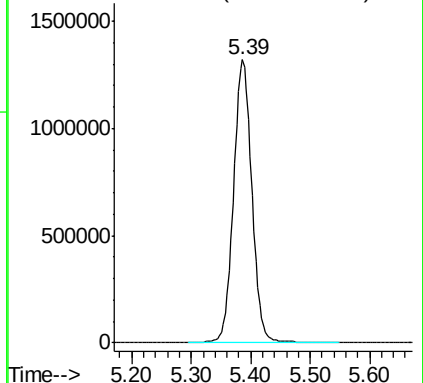
Lab File: VU030341.D

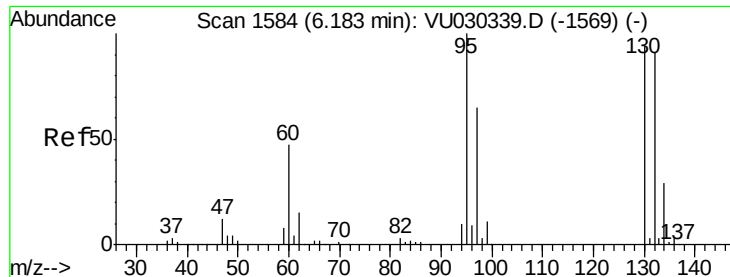
Acq: 23 Mar 2019 14:59

Tgt Ion: 78 Resp: 2819394



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 198.300 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

Tgt Ion: 95 Resp: 692018

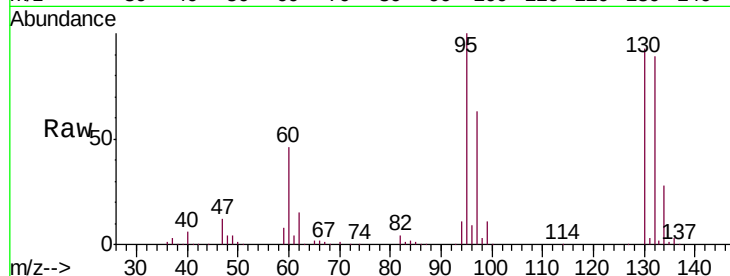
Ion Ratio Lower Upper

95 100

97 63.4 45.7 84.9

132 88.8 63.8 118.4

130 93.2 65.7 121.9

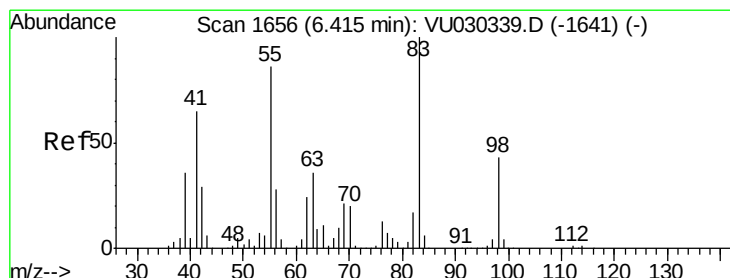
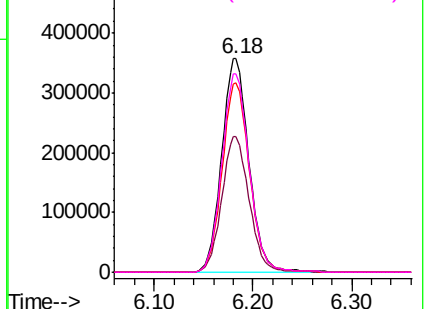
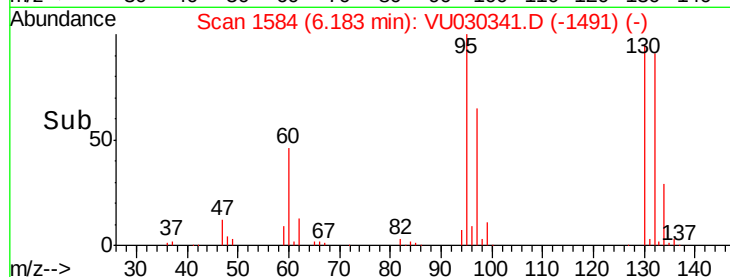


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 214.702 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

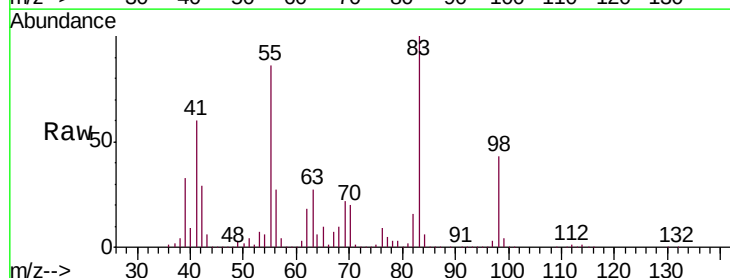
Tgt Ion: 83 Resp: 1177362

Ion Ratio Lower Upper

83 100

55 85.9 71.4 107.0

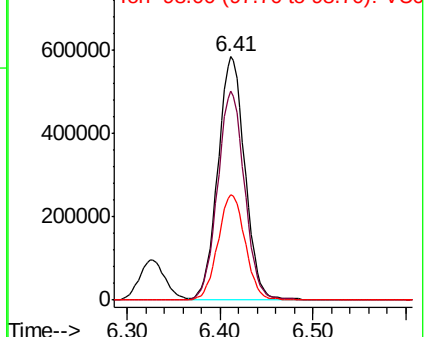
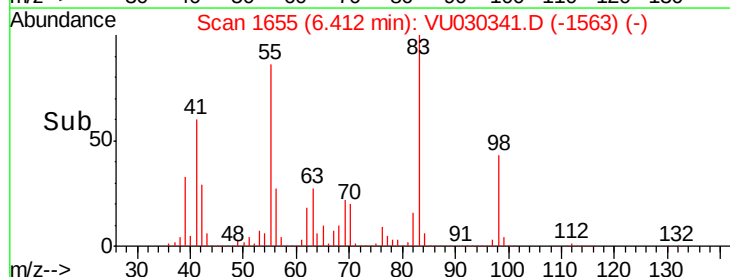
98 43.8 36.0 54.0

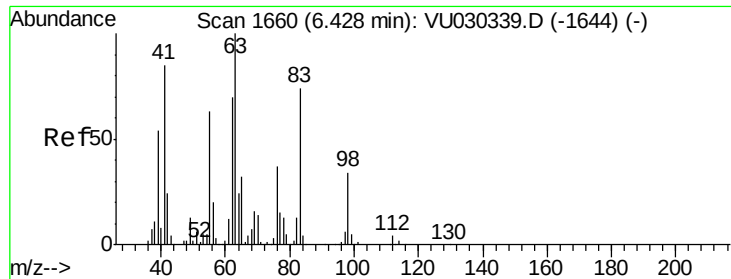


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

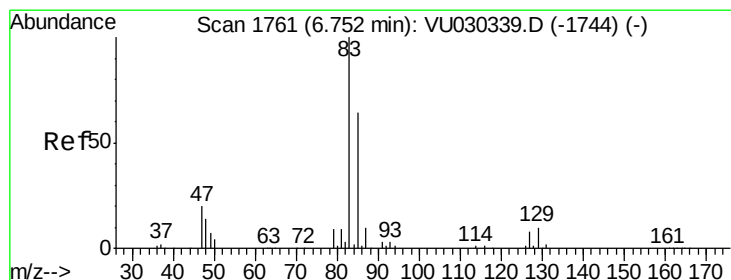
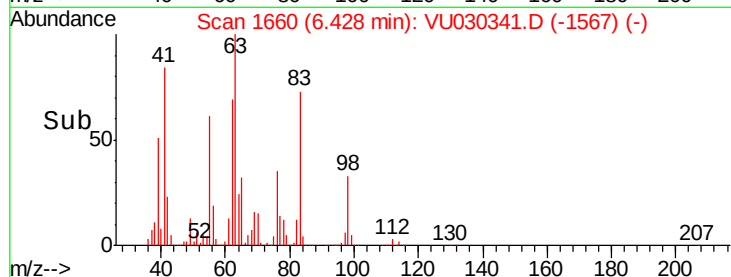
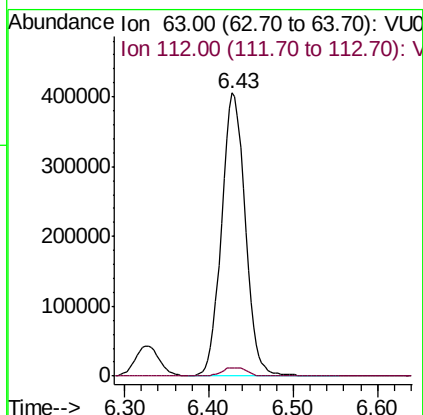
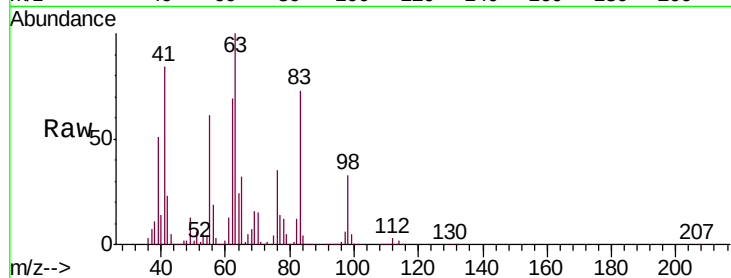




#37
 1,2-Dichloropropane
 Concen: 225.357 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

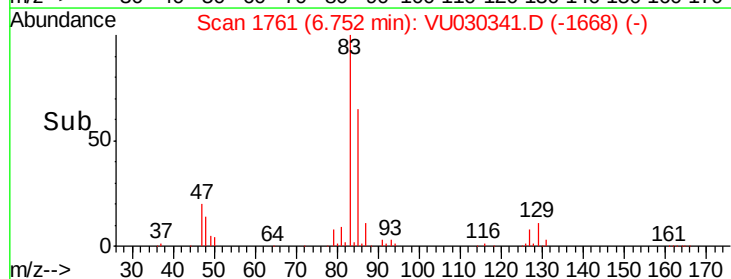
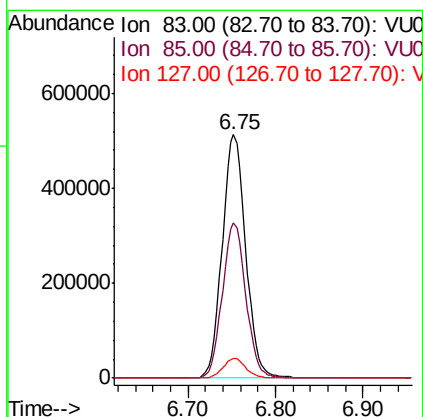
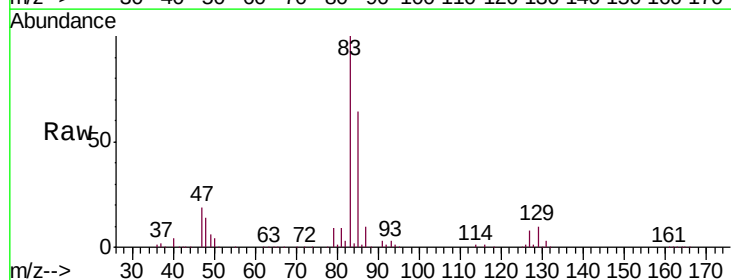
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

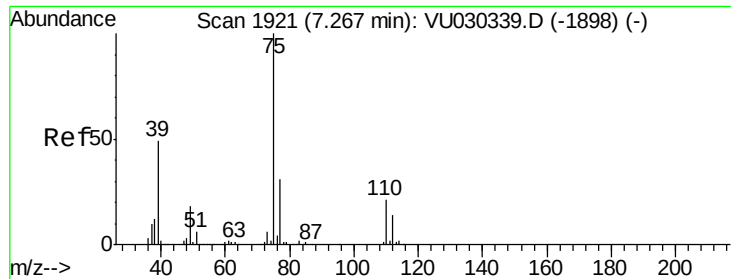
Tgt Ion: 63 Resp: 791437
 Ion Ratio Lower Upper
 63 100
 112 3.2 2.6 4.0



#38
 Bromodichloromethane
 Concen: 215.338 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion: 83 Resp: 953534
 Ion Ratio Lower Upper
 83 100
 85 63.7 45.0 83.6
 127 8.1 6.6 10.0

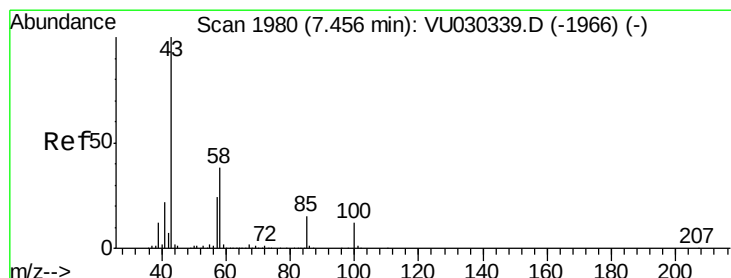
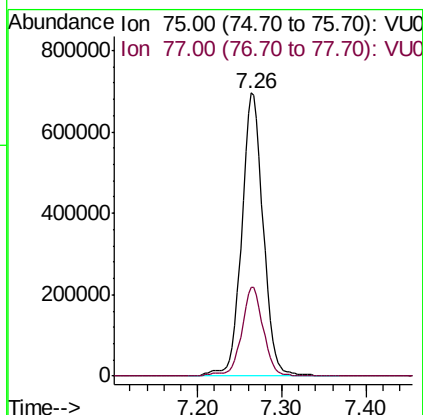
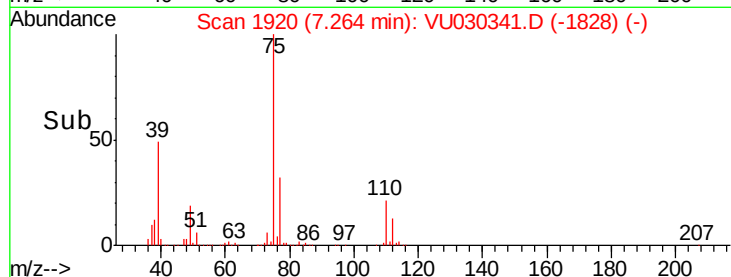
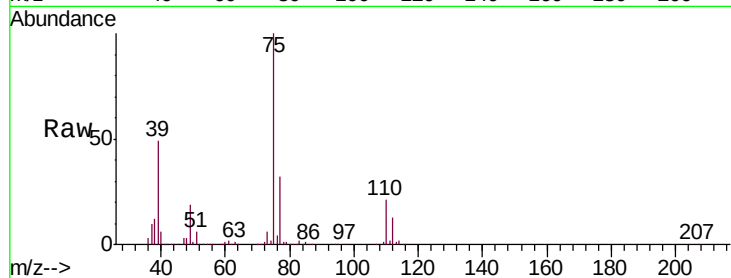




#39
 cis-1,3-Dichloropropene
 Concen: 224.409 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

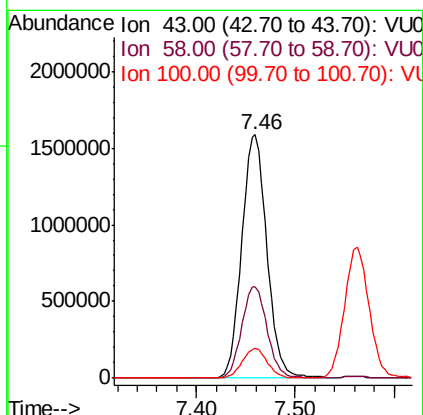
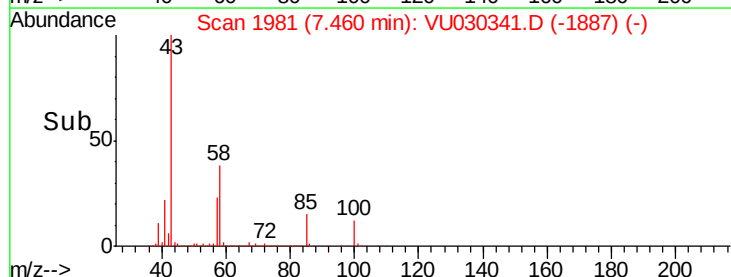
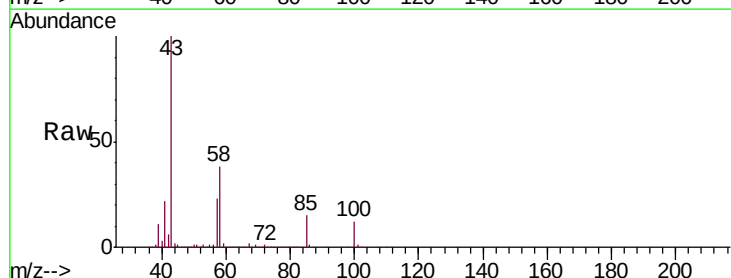
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

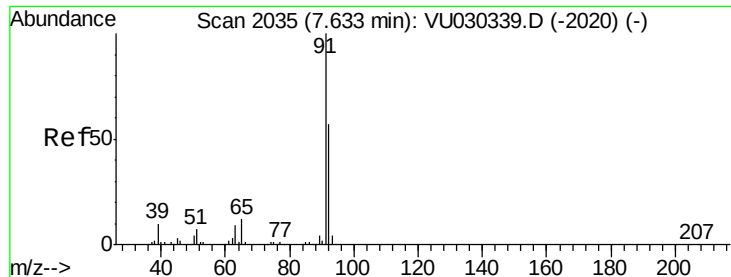
Tgt Ion: 75 Resp: 1242472
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 547.431 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion: 43 Resp: 2794520
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.6 45.8
 100 12.1 9.5 14.3





#42

Toluene

Concen: 205.391 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

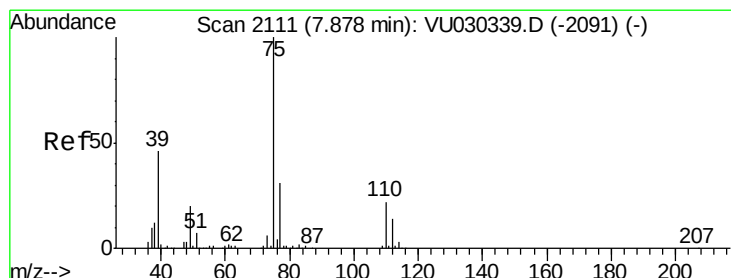
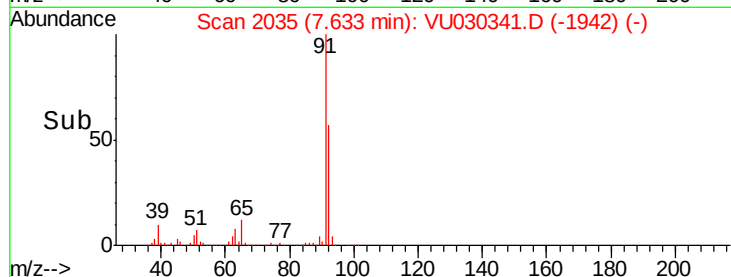
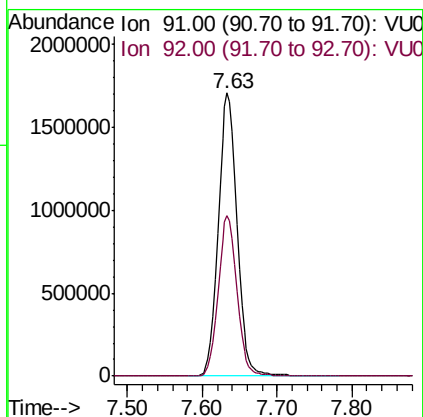
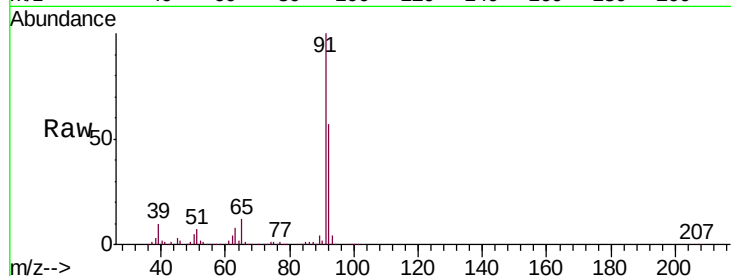
VSTD20049

Tgt Ion: 91 Resp: 2969327

Ion Ratio Lower Upper

91 100

92 56.9 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 229.561 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030341.D

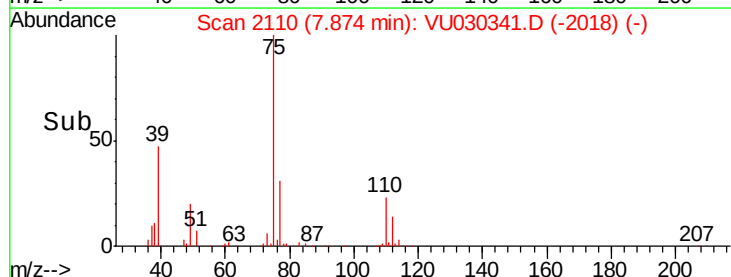
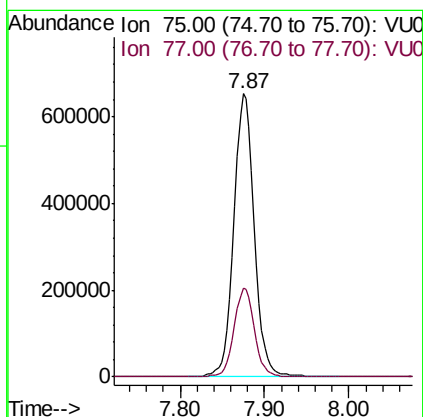
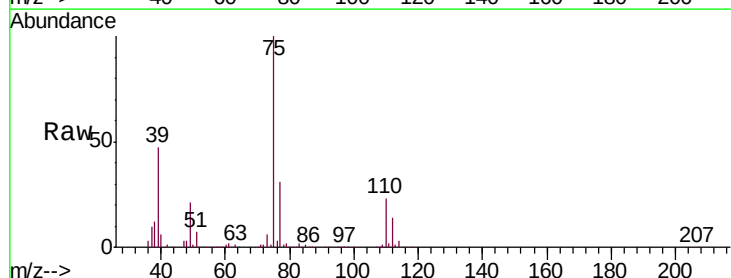
Acq: 23 Mar 2019 14:59

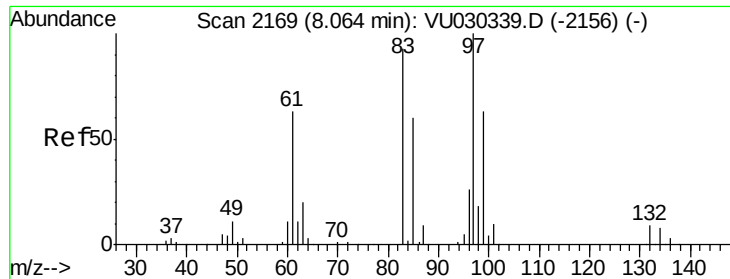
Tgt Ion: 75 Resp: 1102166

Ion Ratio Lower Upper

75 100

77 31.4 22.0 40.8

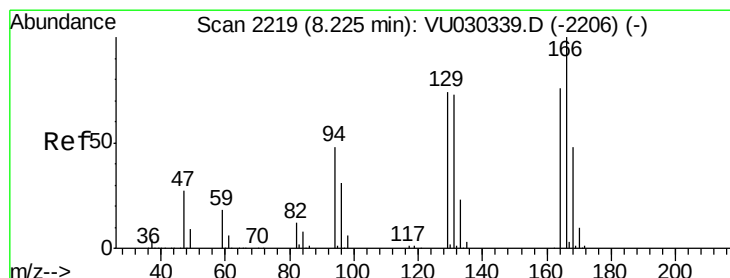
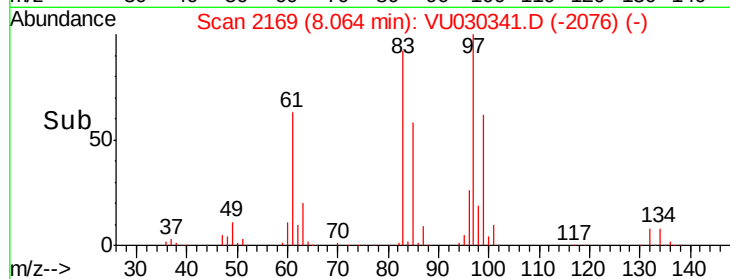
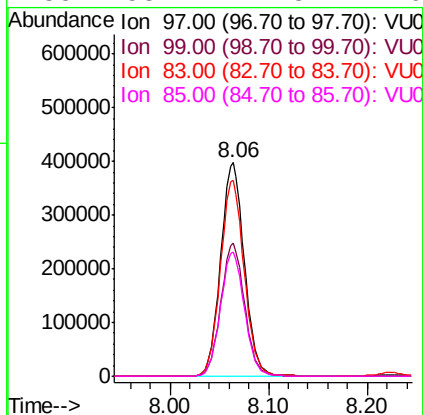
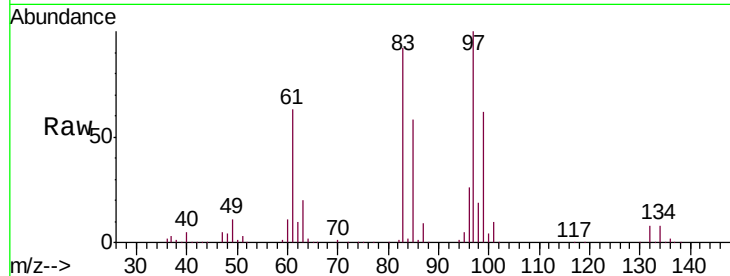




#45
 1,1,2-Trichloroethane
 Concen: 194.285 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

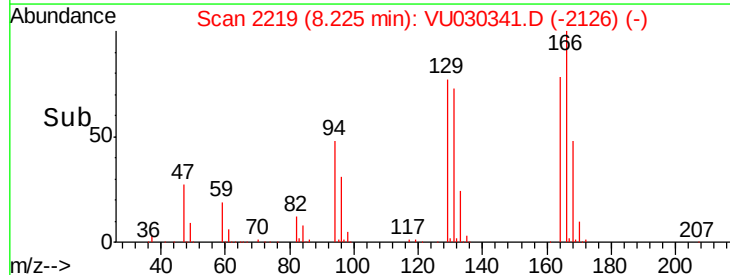
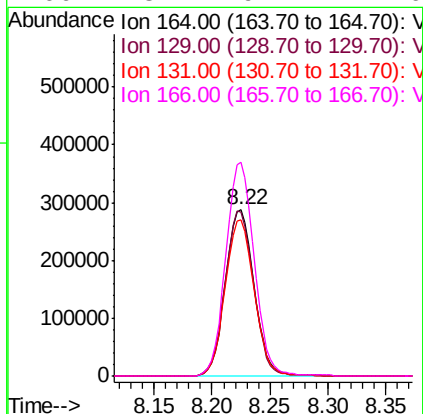
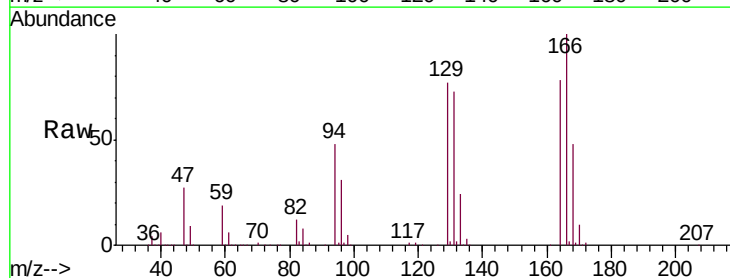
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

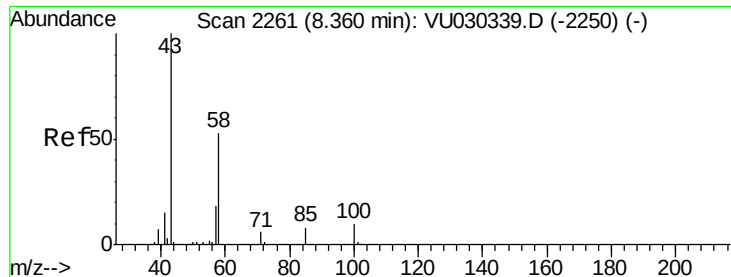
Tgt Ion:	97	Resp:	671203
Ion	Ratio	Lower	Upper
97	100		
99	62.1	44.0	81.8
83	91.9	65.3	121.3
85	58.4	41.8	77.6



#46
 Tetrachloroethene
 Concen: 172.708 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion:	164	Resp:	490451
Ion	Ratio	Lower	Upper
164	100		
129	98.9	68.1	126.5
131	94.1	67.7	125.7
166	128.7	92.4	171.6

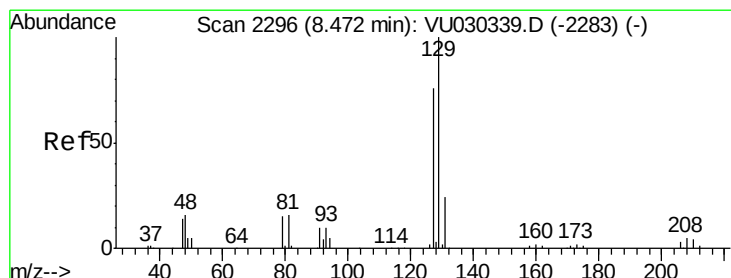
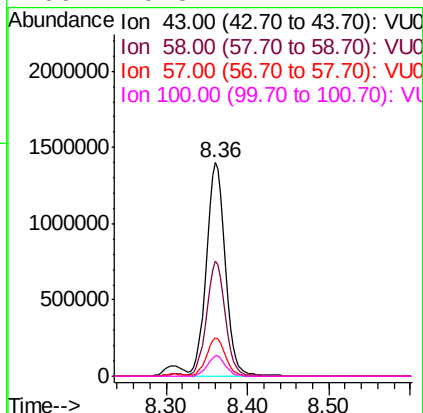
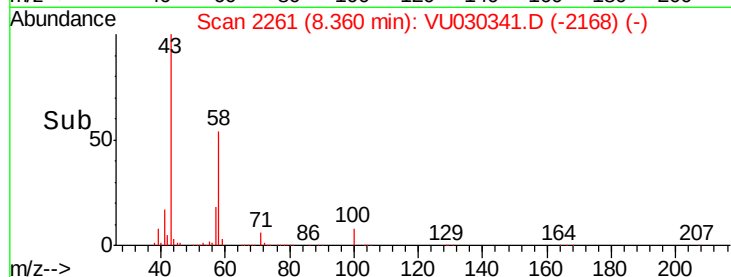
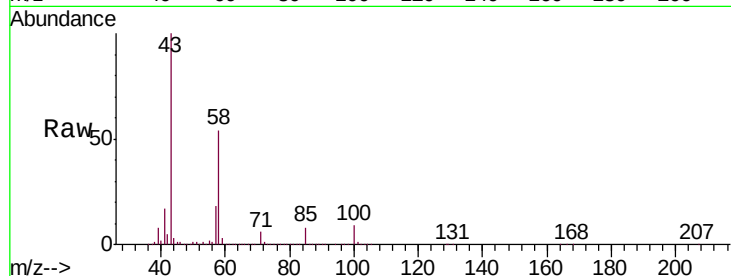




#48
2-Hexanone
Concen: 537.317 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

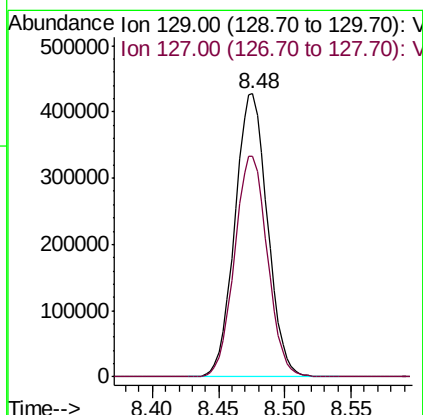
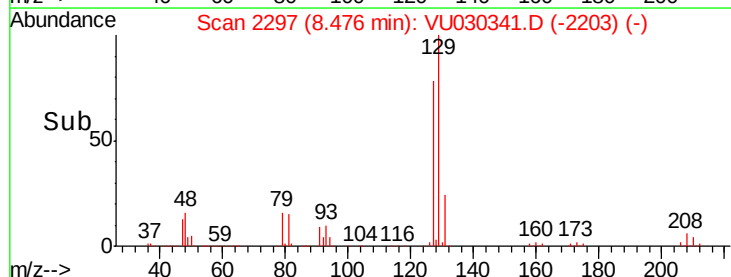
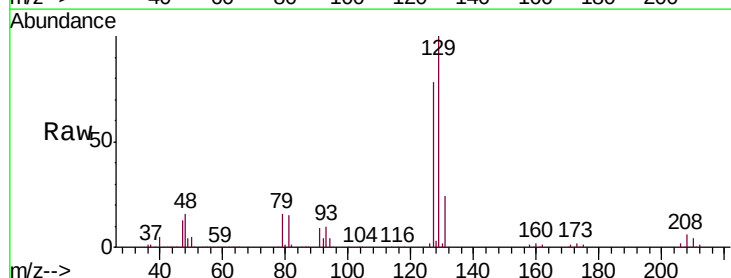
Instrument :
MSVOA_U
ClientSampleId :
VSTD20049

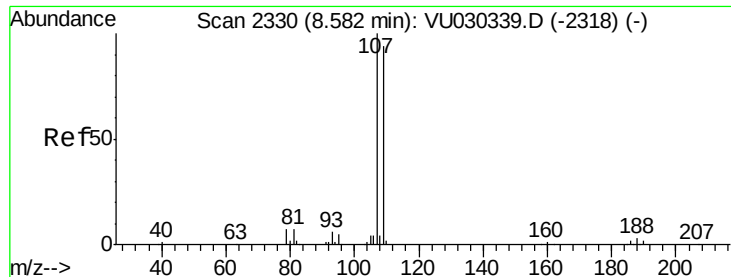
Tgt Ion: 43 Resp: 2271956
Ion Ratio Lower Upper
43 100
58 53.3 42.5 63.7
57 17.8 15.0 22.6
100 9.3 7.4 11.2



#49
Dibromochloromethane
Concen: 190.736 ug/L
RT: 8.48 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

Tgt Ion: 129 Resp: 730272
Ion Ratio Lower Upper
129 100
127 78.0 53.2 98.8

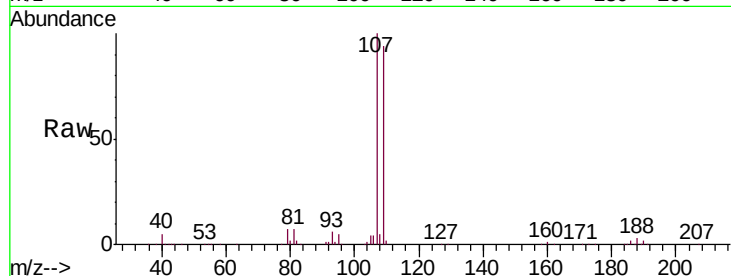




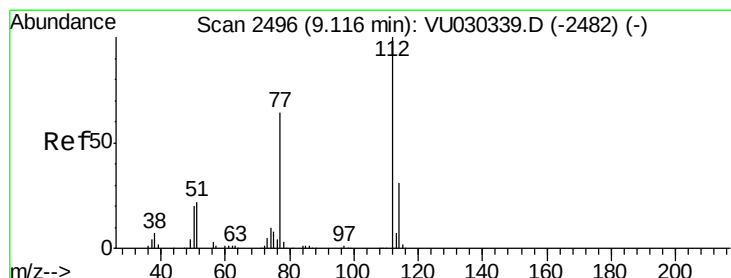
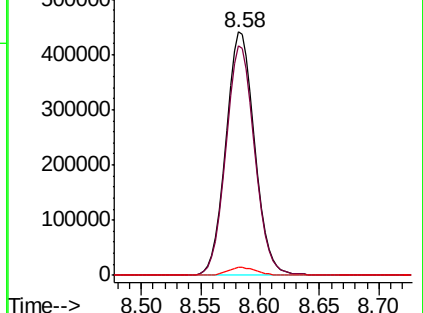
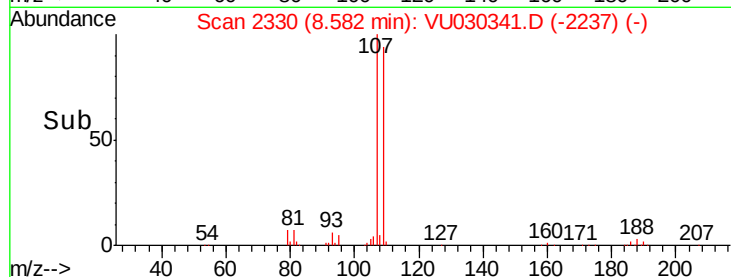
#50
1,2-Dibromoethane
Concen: 194.279 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

Instrument :
MSVOA_U
ClientSampleId :
VSTD20049

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.3	65.8	122.2
188	3.3	2.6	4.0

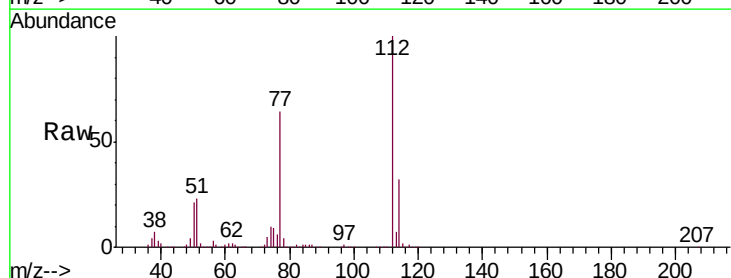


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

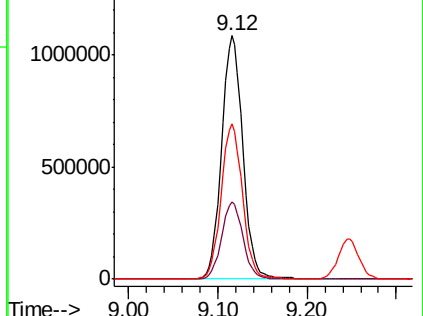
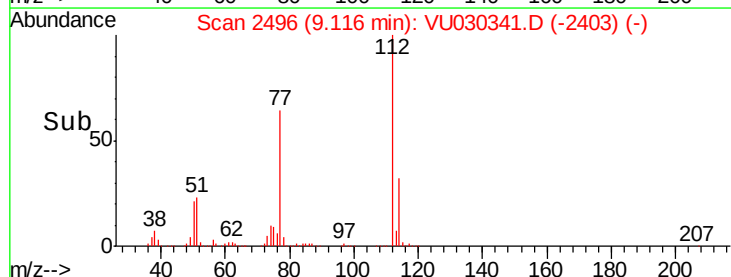


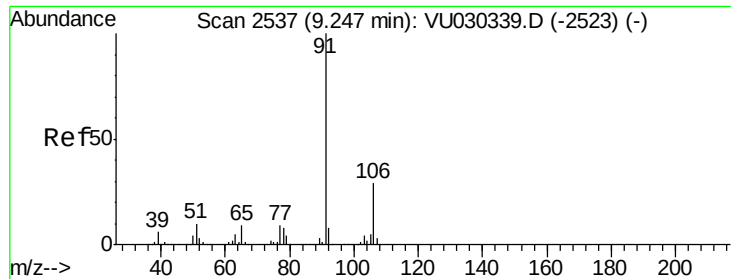
#51
Chlorobenzene
Concen: 190.057 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030341.D
Acq: 23 Mar 2019 14:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	21.5	39.9
77	63.6	51.4	77.0



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





#52

Ethylbenzene

Concen: 208.988 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

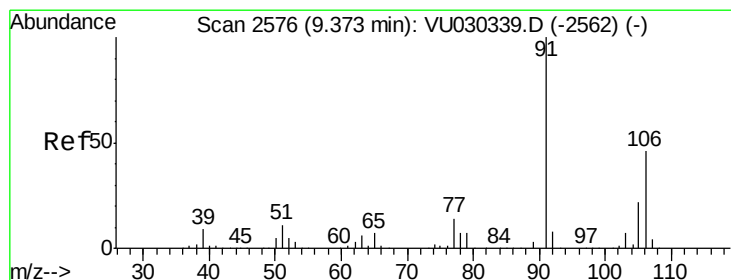
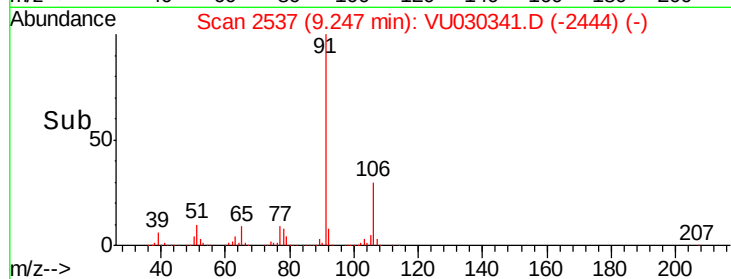
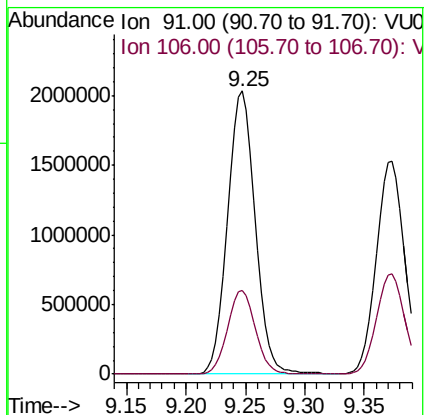
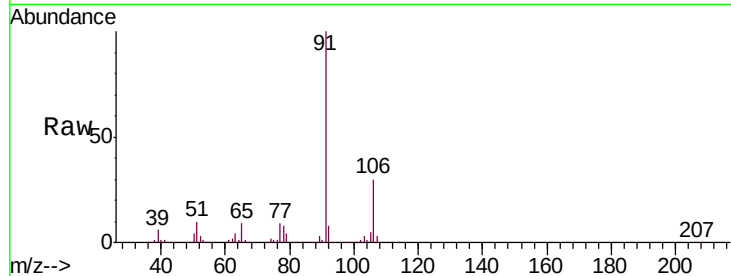
VSTD20049

Tgt Ion: 91 Resp: 3286579

Ion Ratio Lower Upper

91 100

106 29.7 20.6 38.2



#53

m,p-Xylene

Concen: 200.917 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030341.D

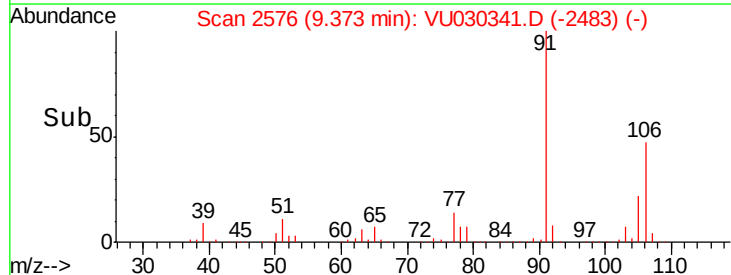
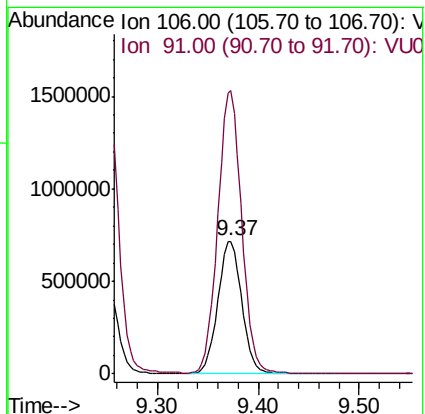
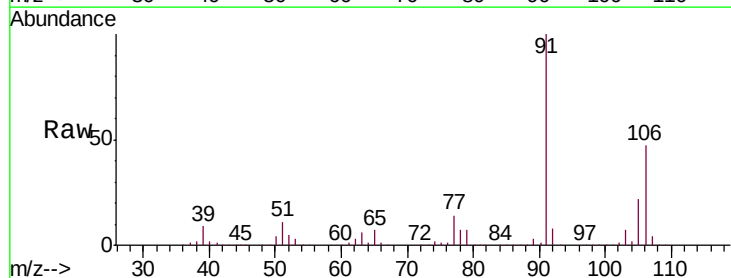
Acq: 23 Mar 2019 14:59

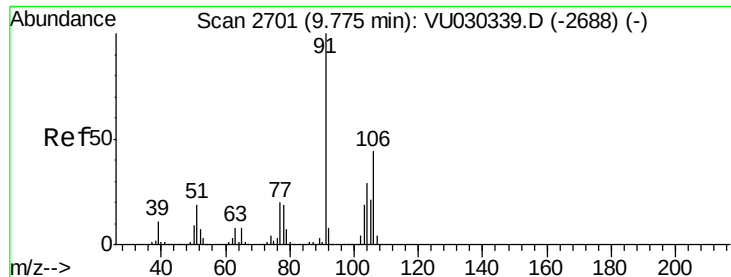
Tgt Ion: 106 Resp: 1194434

Ion Ratio Lower Upper

106 100

91 212.9 151.2 280.8





#54

o-xylene

Concen: 200.157 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

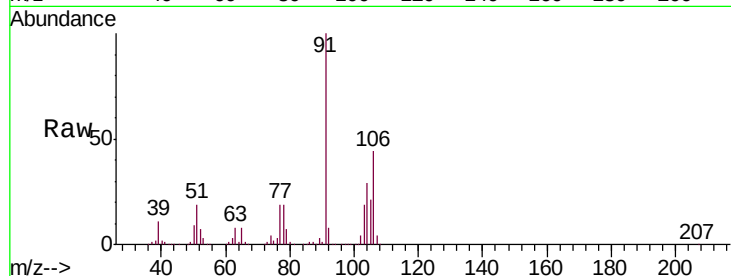
VSTD20049

Tgt Ion:106 Resp: 1171812

Ion Ratio Lower Upper

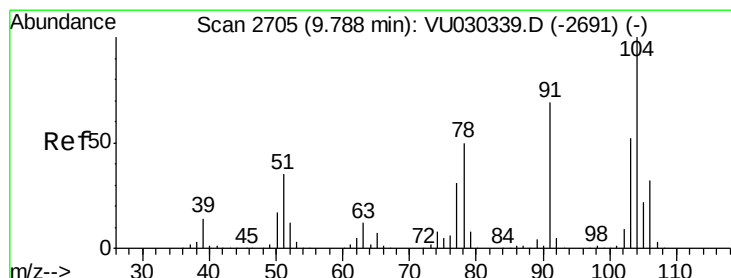
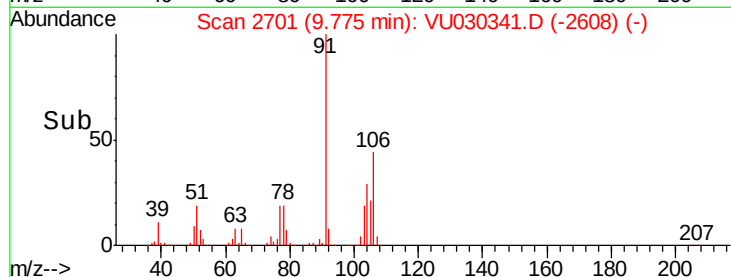
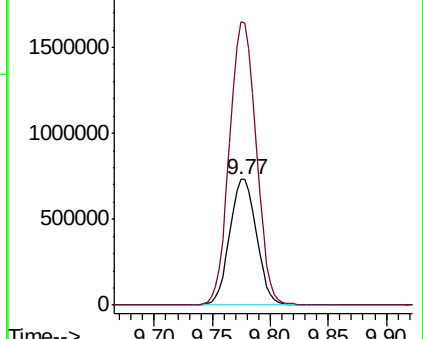
106 100

91 225.7 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 209.068 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU030341.D

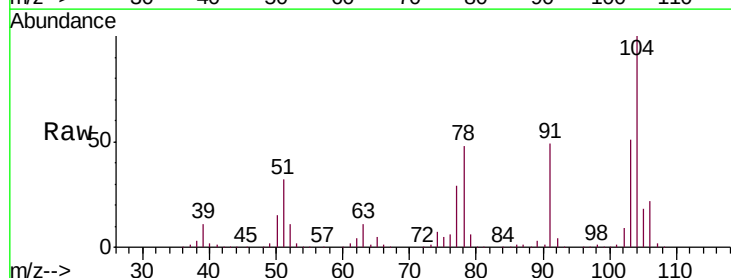
Acq: 23 Mar 2019 14:59

Tgt Ion:104 Resp: 2082019

Ion Ratio Lower Upper

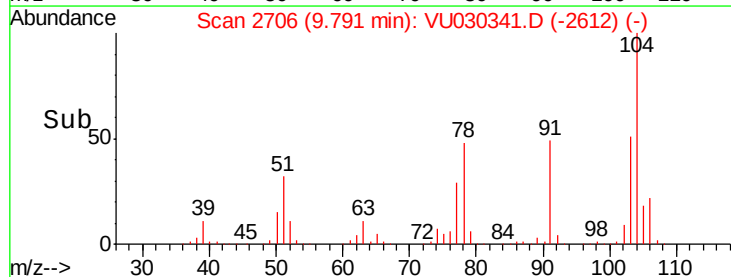
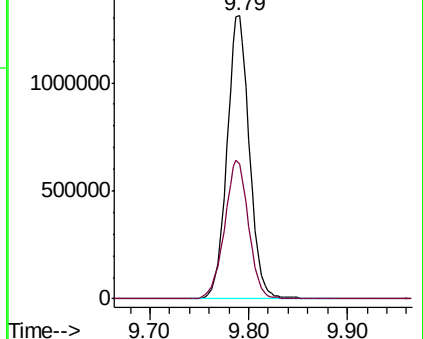
104 100

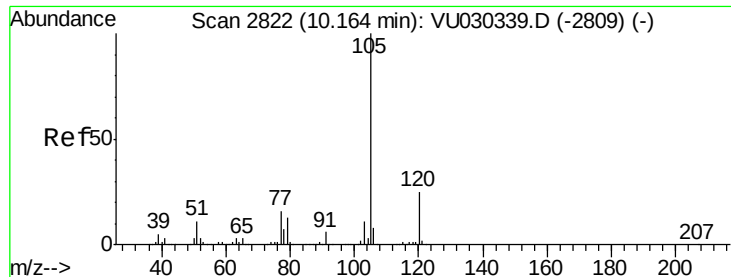
78 47.7 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 204.010 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

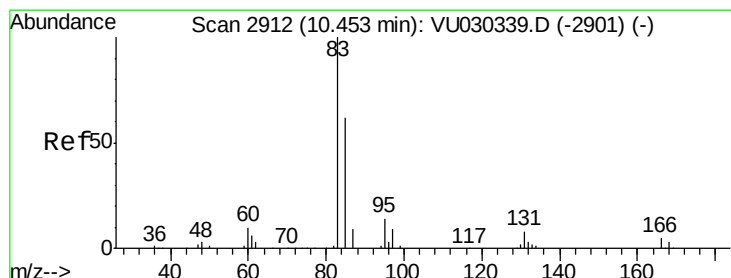
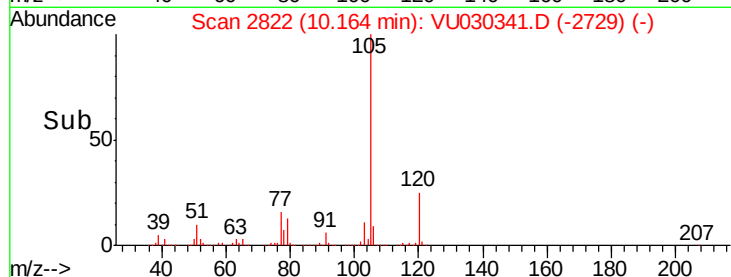
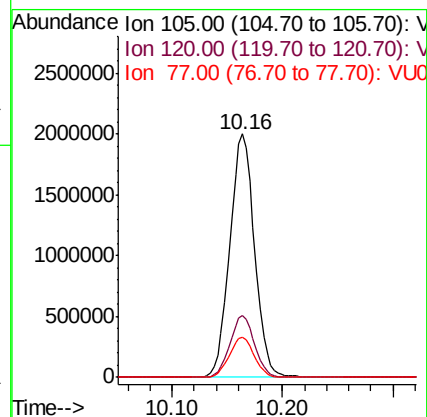
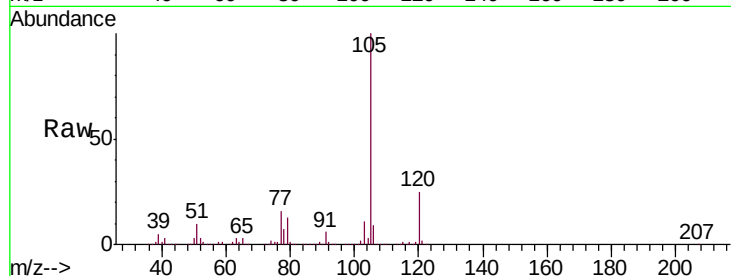
Tgt Ion:105 Resp: 3106813

Ion Ratio Lower Upper

105 100

120 25.3 20.2 30.2

77 16.5 13.2 19.8



#58

1,1,2,2-Tetrachloroethane

Concen: 210.795 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

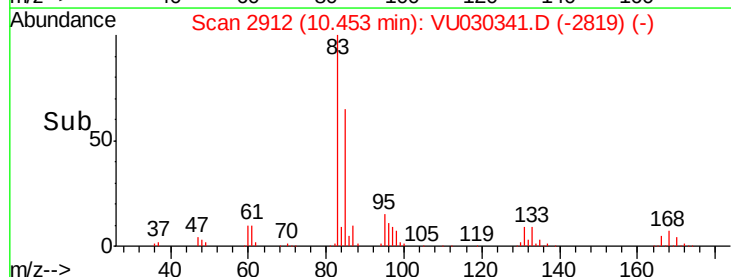
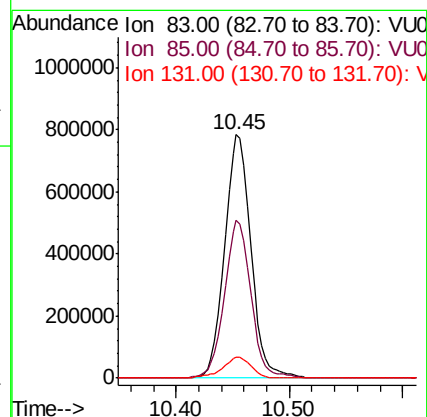
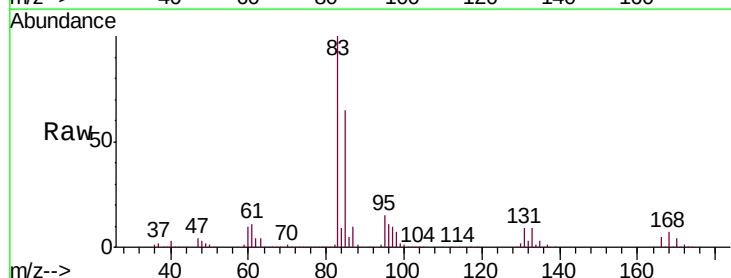
Tgt Ion: 83 Resp: 1265320

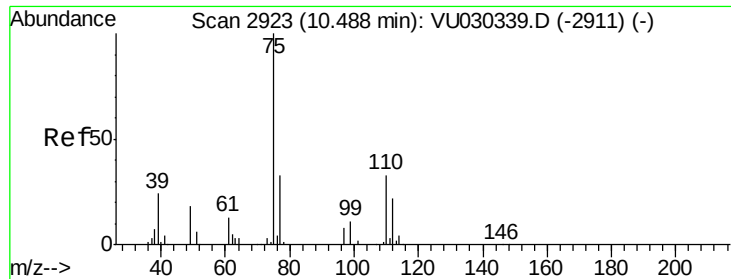
Ion Ratio Lower Upper

83 100

85 64.7 44.3 82.3

131 8.6 6.7 10.1





#59

1,2,3-Trichloropropane

Concen: 210.741 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

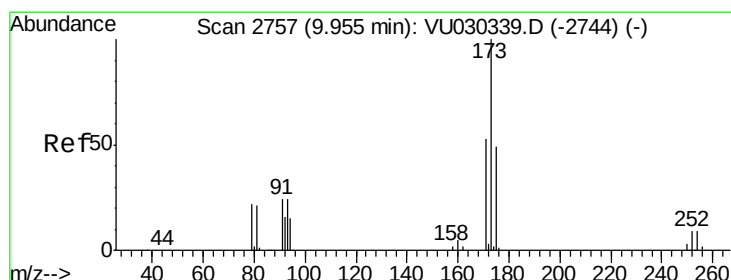
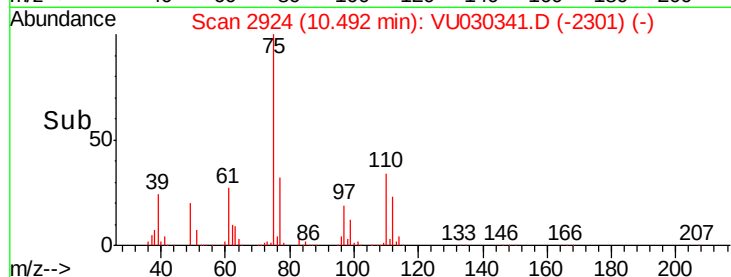
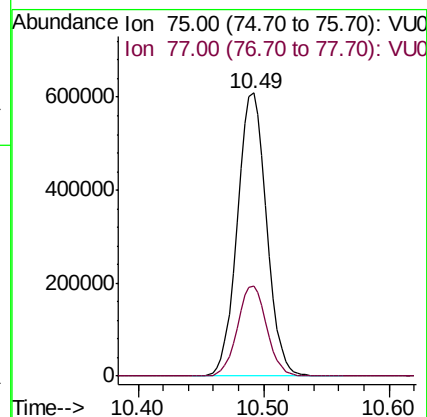
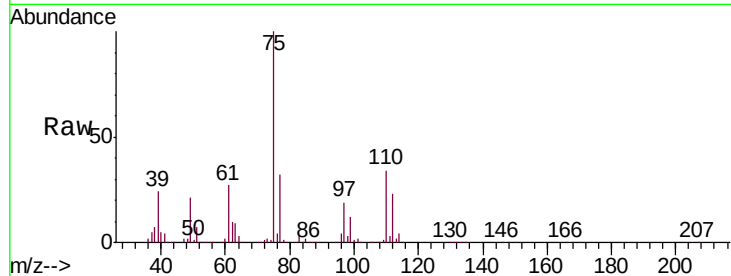
VSTD20049

Tgt Ion: 75 Resp: 982597

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.2



#61

Bromoform

Concen: 191.198 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

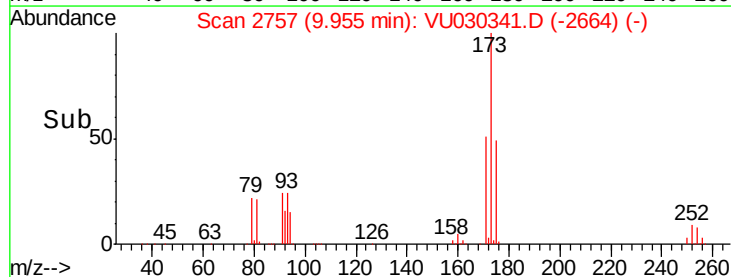
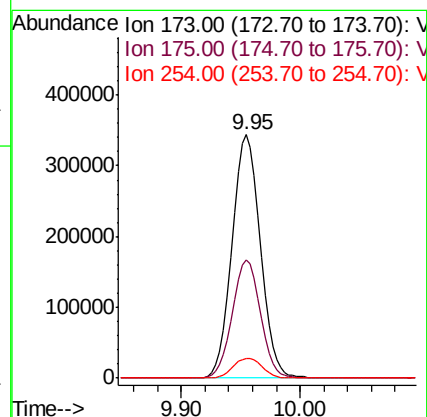
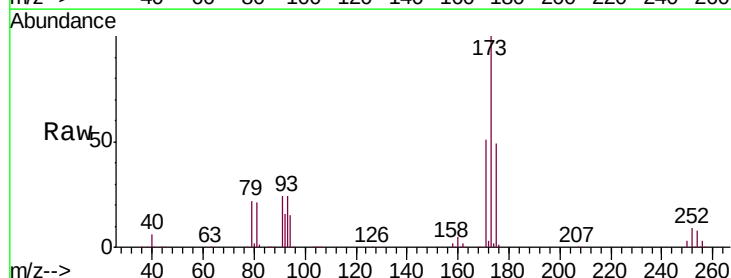
Tgt Ion: 173 Resp: 566819

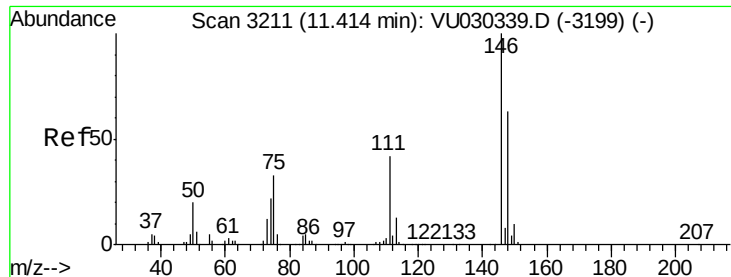
Ion Ratio Lower Upper

173 100

175 48.4 38.5 57.7

254 8.4 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 188.549 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

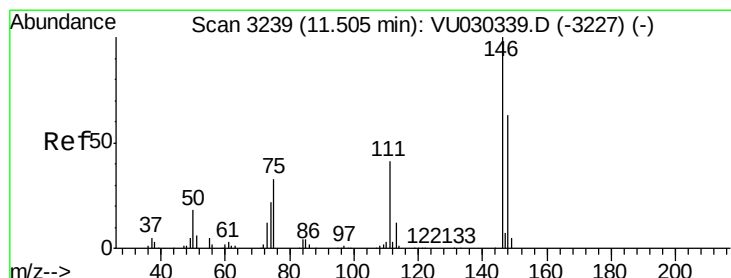
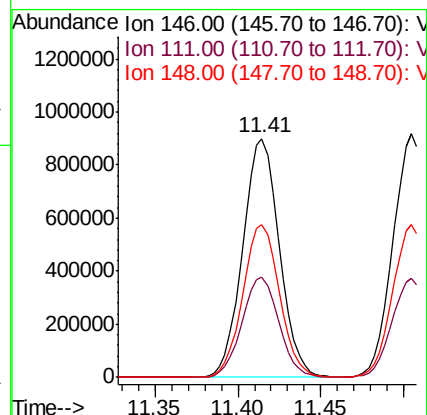
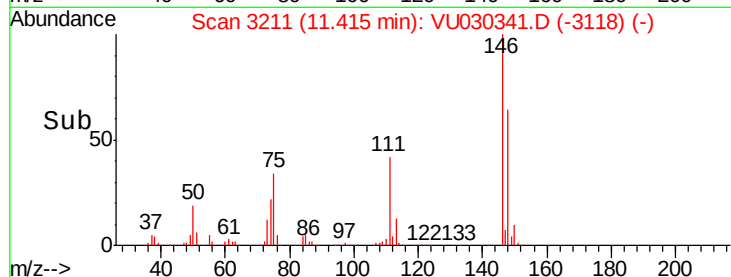
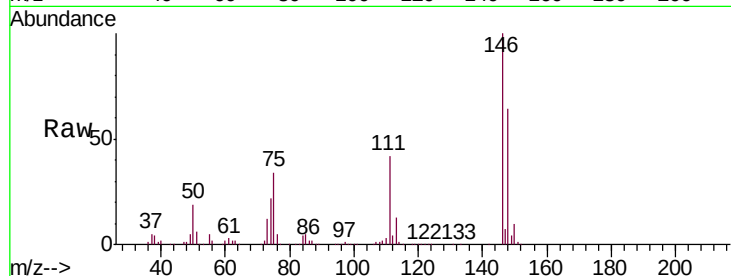
Tgt Ion:146 Resp: 1381641

Ion Ratio Lower Upper

146 100

111 41.8 29.2 54.2

148 64.3 44.4 82.4



#63

1,4-Dichlorobenzene

Concen: 183.695 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

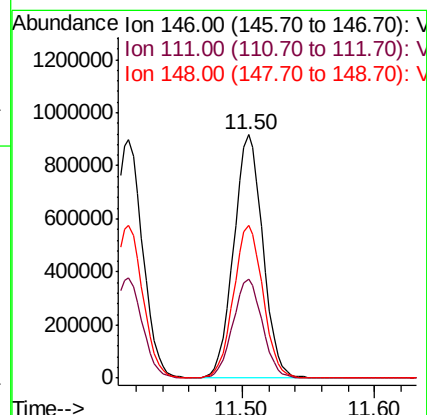
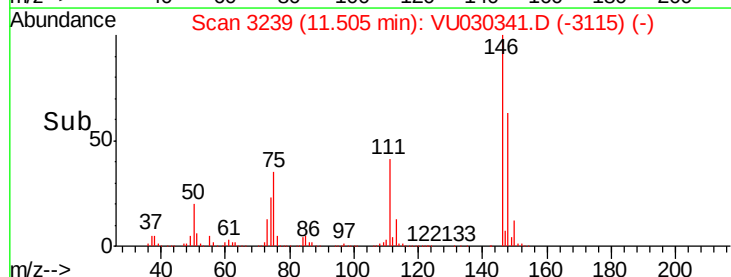
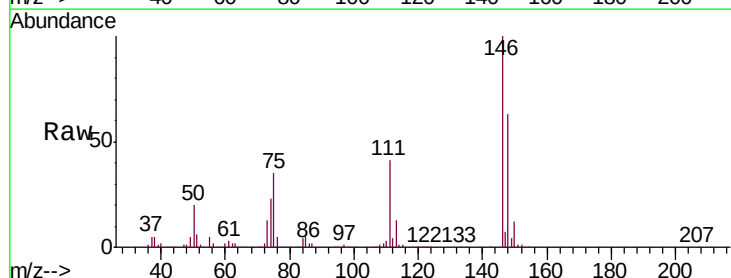
Tgt Ion:146 Resp: 1394788

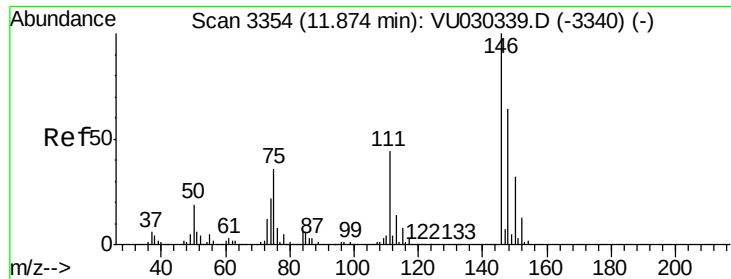
Ion Ratio Lower Upper

146 100

111 40.5 28.7 53.3

148 62.8 44.3 82.3

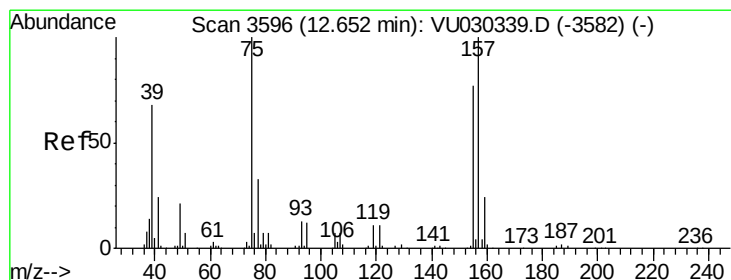
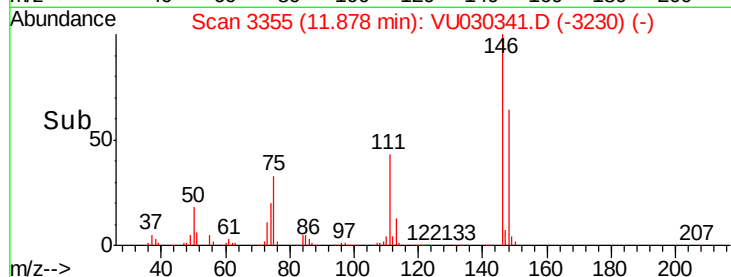
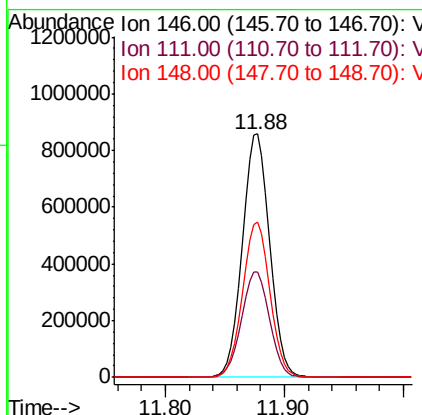
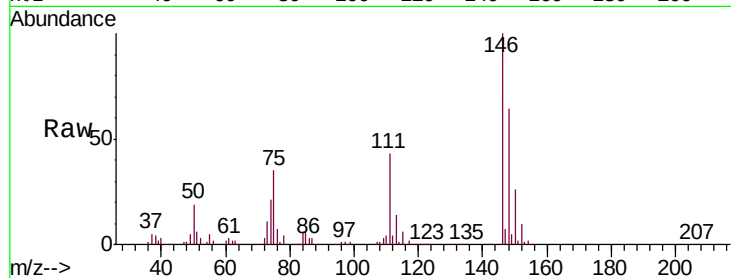




#65
 1,2-Dichlorobenzene
 Concen: 182.480 ug/L
 RT: 11.88 min Scan# 3355
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

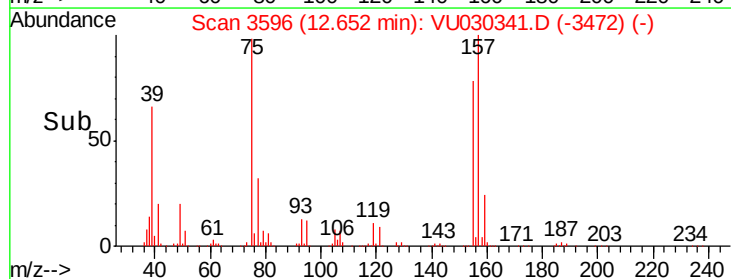
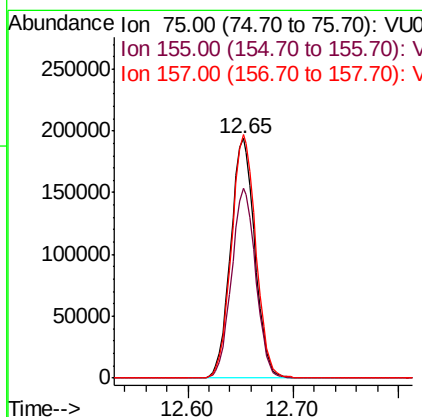
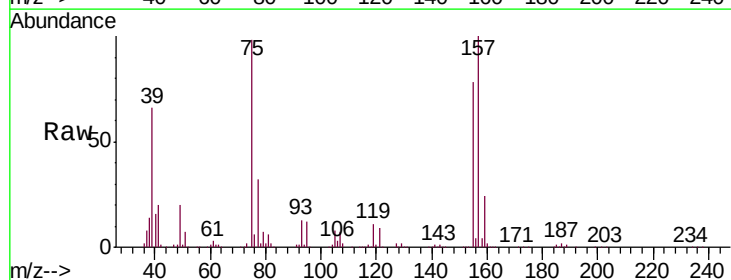
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

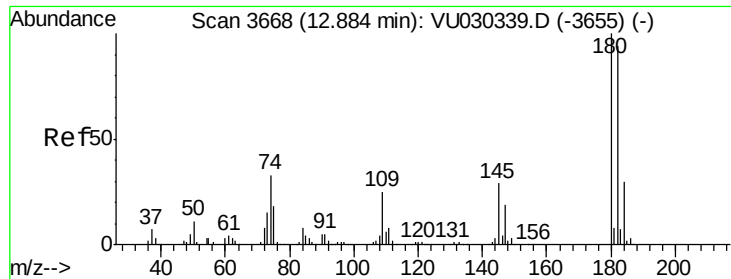
Tgt Ion:146 Resp: 1363248
 Ion Ratio Lower Upper
 146 100
 111 43.4 34.9 52.3
 148 63.6 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 230.366 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion: 75 Resp: 307222
 Ion Ratio Lower Upper
 75 100
 155 79.2 61.8 92.6
 157 101.8 80.2 120.4

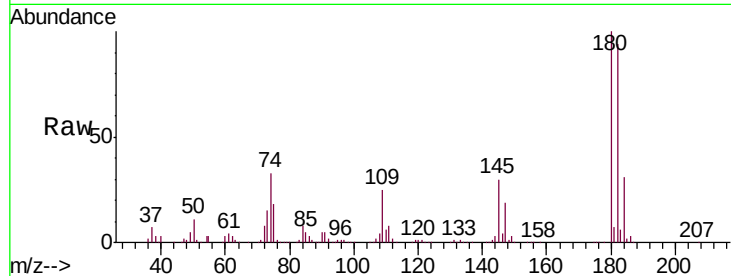




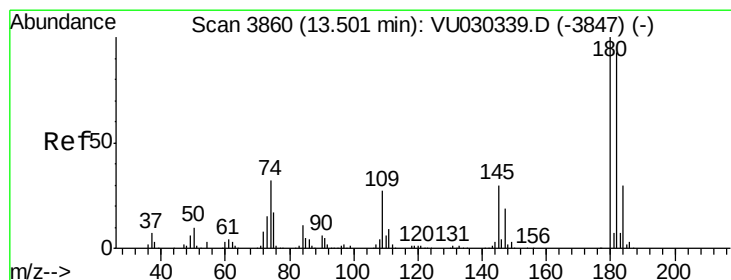
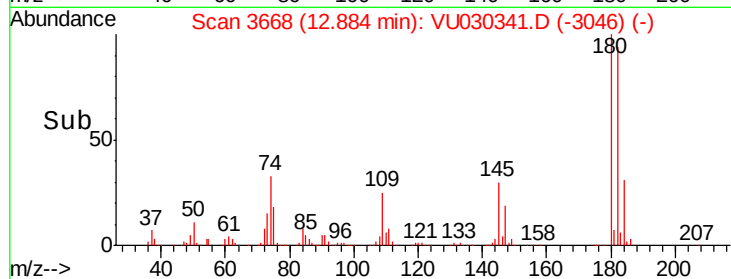
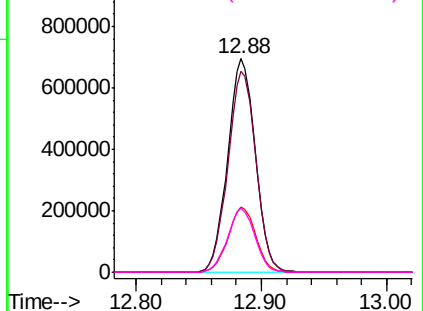
#67
 1,3,5-Trichlorobenzene
 Concen: 186.230 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20049

Tgt Ion:180 Resp: 1059743
 Ion Ratio Lower Upper
 180 100
 182 95.1 75.9 113.9
 184 30.5 24.1 36.1
 145 29.8 23.8 35.8

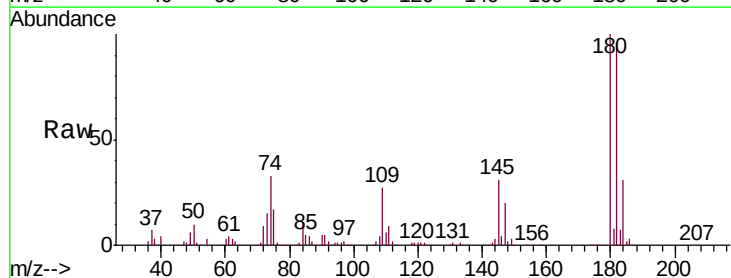


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

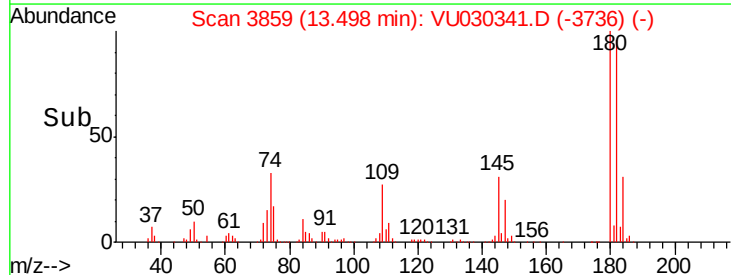
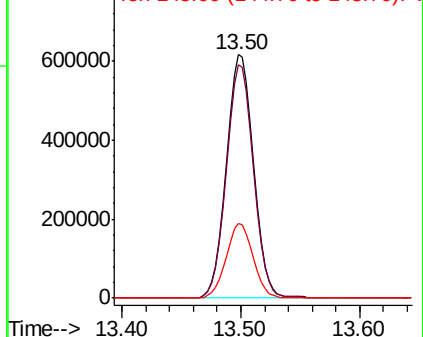


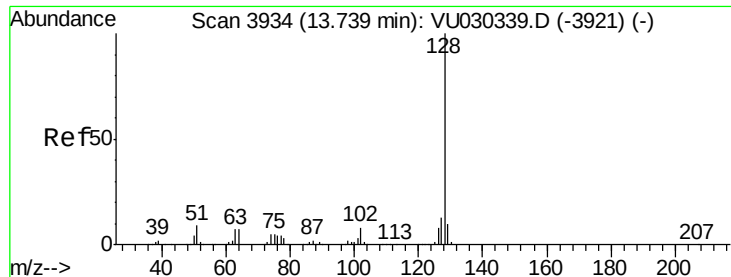
#68
 1,2,4-trichlorobenzene
 Concen: 194.055 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030341.D
 Acq: 23 Mar 2019 14:59

Tgt Ion:180 Resp: 974797
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.1 114.1
 145 30.3 24.5 36.7



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





#69

Naphthalene

Concen: 200.012 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

Instrument :

MSVOA_U

ClientSampleId :

VSTD20049

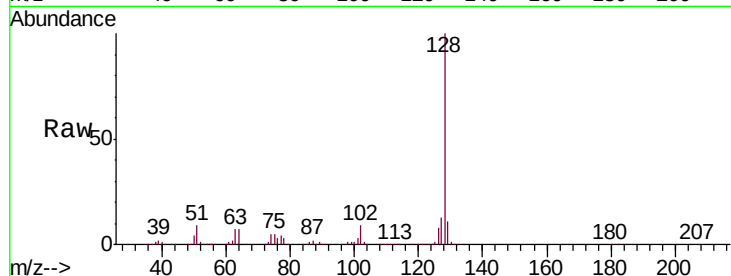
Tgt Ion:128 Resp: 3218936

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

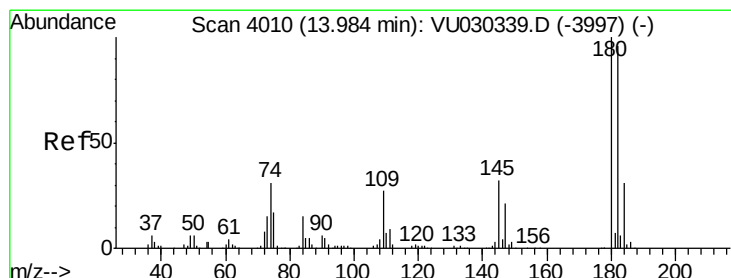
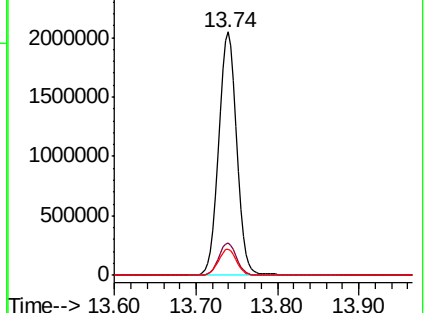
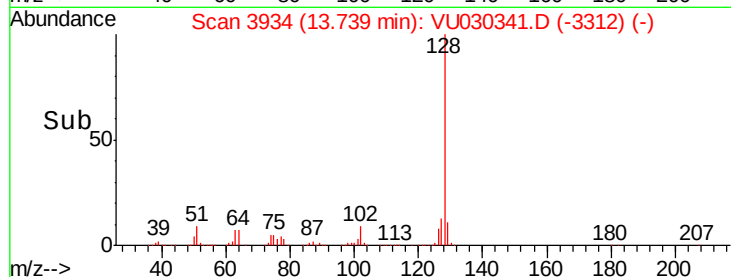
129 10.8 8.4 12.6



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: 185.351 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030341.D

Acq: 23 Mar 2019 14:59

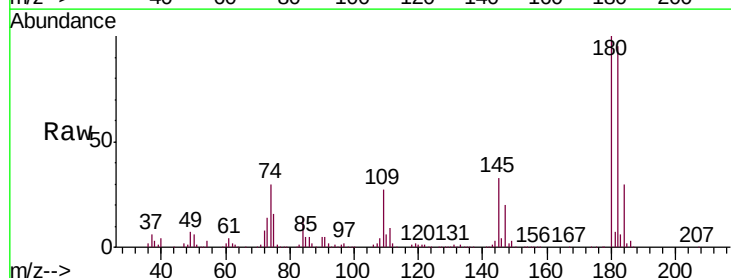
Tgt Ion:180 Resp: 966013

Ion Ratio Lower Upper

180 100

182 95.6 77.4 116.2

145 32.5 25.9 38.9



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

