

Data File : VU031399.D
Acq On : 22 Apr 2019 17:50
Operator : JC/SP
Sample : VSTD01049
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01049

Quant Time: Apr 23 02:58:58 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	698710	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	650910	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	288509	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	54219	8.50	ug/L	0.00
7) Chloroethane-d5	1.68	69	42537	7.96	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	99259	7.99	ug/L	0.00
21) 2-Butanone-d5	4.20	46	80764	17.64	ug/L	0.01
24) Chloroform-d	4.64	84	86654	8.35	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.31	65	53329	8.36	ug/L	0.00
32) Benzene-d6	5.34	84	184334	9.07	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	58800	8.89	ug/L	0.00
41) Toluene-d8	7.56	98	164177	9.17	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	25670	8.20	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	54834	17.33	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	77335	8.41	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	58262	8.86	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	54148	8.651 ug/L	100
3) Chloromethane	1.32	50	69945	9.282 ug/L	98
5) Vinyl chloride	1.40	62	67844	8.988 ug/L	99
6) Bromomethane	1.63	94	39830	8.254 ug/L	99
8) Chloroethane	1.70	64	38654	8.193 ug/L	96
9) Trichlorofluoromethane	1.88	101	80552	7.877 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	47630	8.726 ug/L	99
12) 1,1-Dichloroethene	2.28	96	44836	8.357 ug/L	88
13) Acetone	2.34	43	75612	20.880 ug/L	96
14) Carbon disulfide	2.47	76	139344	9.495 ug/L	97
15) Methyl Acetate	2.62	43	65295	10.334 ug/L	99
16) Methylene chloride	2.70	84	52317	9.819 ug/L	98
17) trans-1,2-Dichloroethene	2.98	96	46917	9.361 ug/L	99
18) Methyl tert-butyl Ether	3.00	73	152176	9.644 ug/L	100
19) 1,1-Dichloroethane	3.44	63	93971	9.532 ug/L	96
20) cis-1,2-Dichloroethene	4.22	96	53629	9.456 ug/L	98
22) 2-Butanone	4.28	43	88590	18.316 ug/L	95
23) Bromochloromethane	4.55	128	27439	9.759 ug/L	94
25) Chloroform	4.67	83	90345	9.176 ug/L	94
27) 1,2-Dichloroethane	5.41	62	68025	9.100 ug/L	98
29) Cyclohexane	4.99	56	82923	9.238 ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	74027	8.800 ug/L	97
31) Carbon tetrachloride	5.13	117	64452	8.866 ug/L	100
33) Benzene	5.39	78	201048	9.332 ug/L	100
34) Trichloroethene	6.19	95	54223	9.955 ug/L	97
35) Methylcyclohexane	6.41	83	77071	9.481 ug/L	99
37) 1,2-Dichloropropane	6.43	63	53904	9.377 ug/L	99
38) Bromodichloromethane	6.76	83	64635	8.910 ug/L	95
39) cis-1,3-Dichloropropene	7.27	75	78427	9.051 ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	161969	19.826 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.64	91	204320	9.407	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	66895	8.987	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	48872	9.451	ug/L	99
46) Tetrachloroethene	8.22	164	37143	9.099	ug/L	94
48) 2-Hexanone	8.37	43	123889	19.094	ug/L	98
49) Dibromochloromethane	8.47	129	49426	8.854	ug/L	96
50) 1,2-Dibromoethane	8.59	107	51346	9.362	ug/L	97
51) Chlorobenzene	9.12	112	129182	9.543	ug/L	99
52) Ethylbenzene	9.25	91	220135	9.335	ug/L	100
53) m,p-Xylene	9.37	106	77438	9.269	ug/L	97
54) o-xylene	9.78	106	80347	9.484	ug/L	98
55) Styrene	9.79	104	126182	8.892	ug/L	96
56) Isopropylbenzene	10.16	105	202366	9.322	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	85790	9.614	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	66629	9.697	ug/L	99
61) Bromoform	9.95	173	39621	10.028	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	89722	9.441	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	90380	9.517	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	93887	9.421	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	16454	8.627	ug/L	95
67) 1,3,5-Trichlorobenzene	12.89	180	65099	9.168	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	46172	8.067	ug/L	98
69) Naphthalene	13.74	128	160270	8.810	ug/L	97
70) 1,2,3-Trichlorobenzene	13.99	180	52746	8.460	ug/L	97

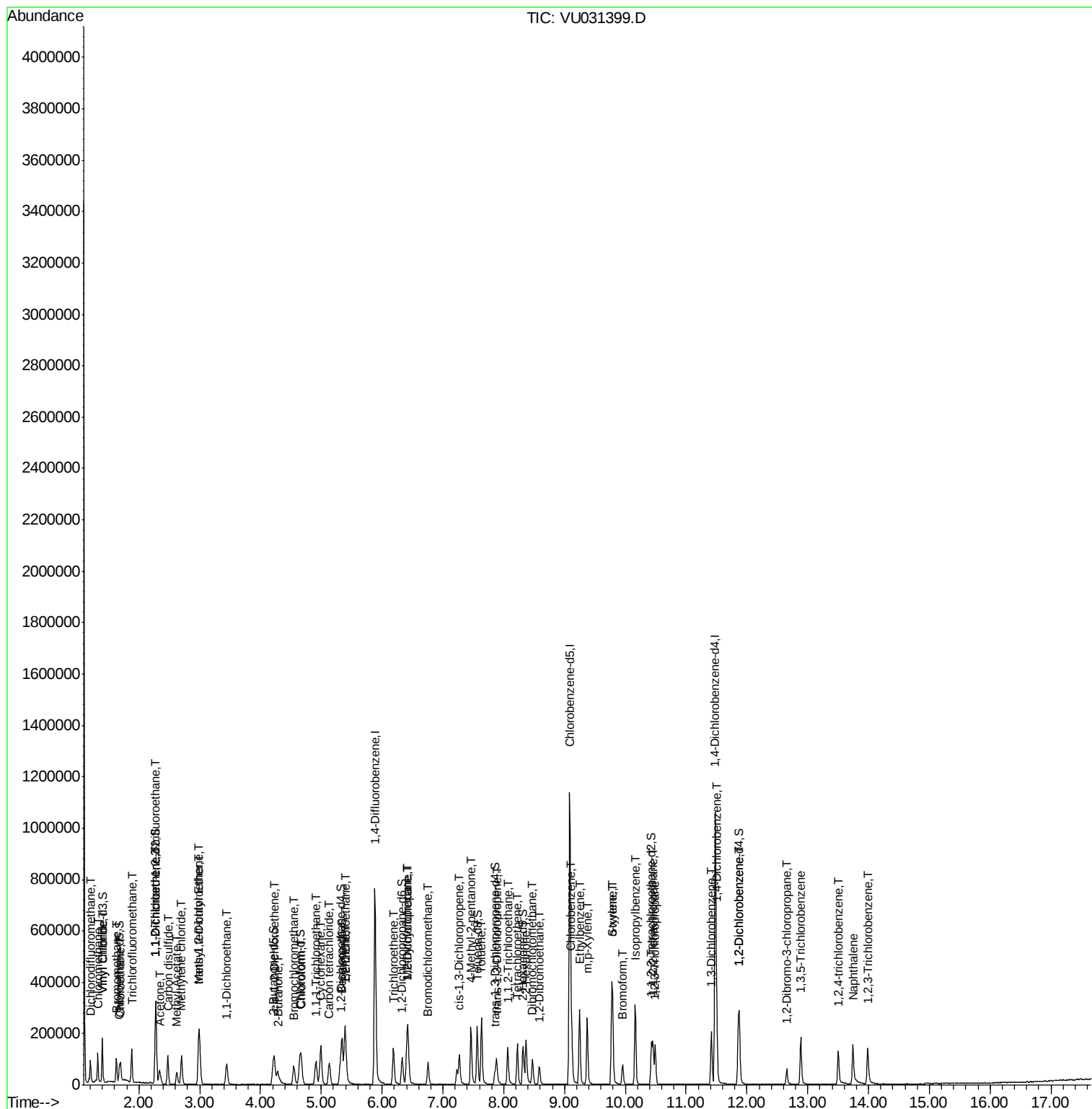
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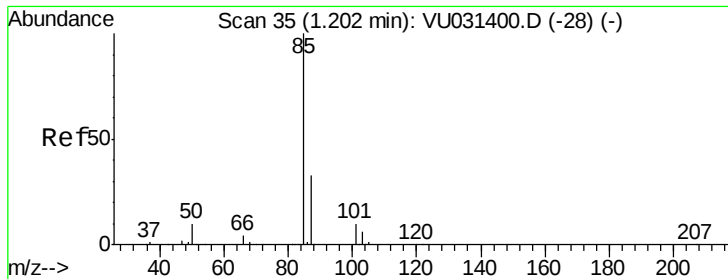
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#2

Dichlorodifluoromethane

Concen: 8.651 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

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MSVOA_U

ClientSampleId :

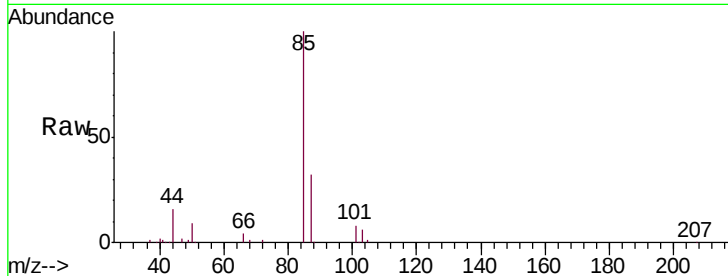
VSTD01049

Tgt Ion: 85 Resp: 54148

Ion Ratio Lower Upper

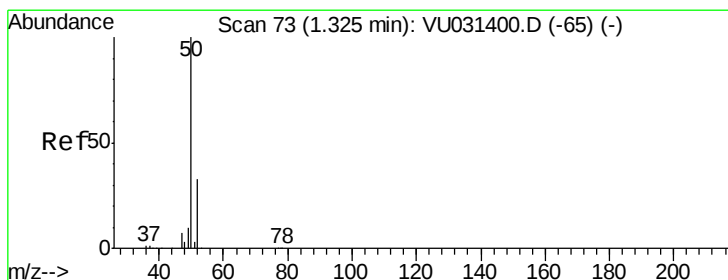
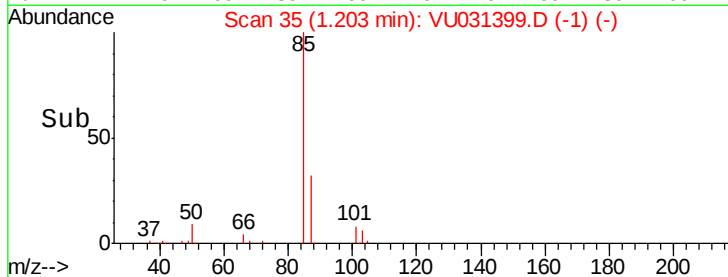
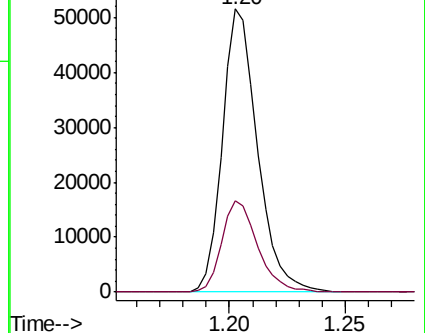
85 100

87 33.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU031400.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU031400.D (-28) (-)



#3

Chloromethane

Concen: 9.282 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031399.D

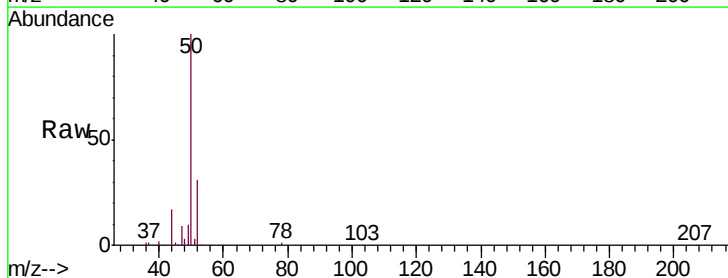
Acq: 22 Apr 2019 17:50

Tgt Ion: 50 Resp: 69945

Ion Ratio Lower Upper

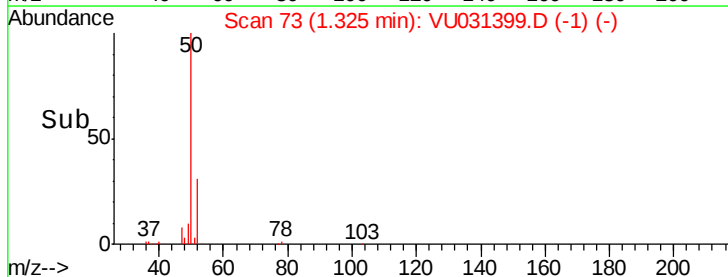
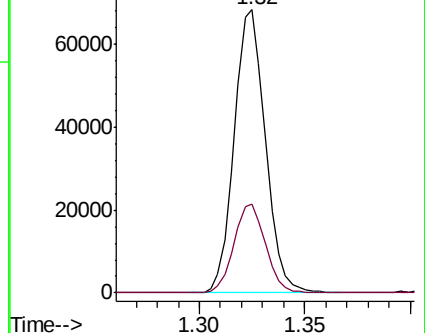
50 100

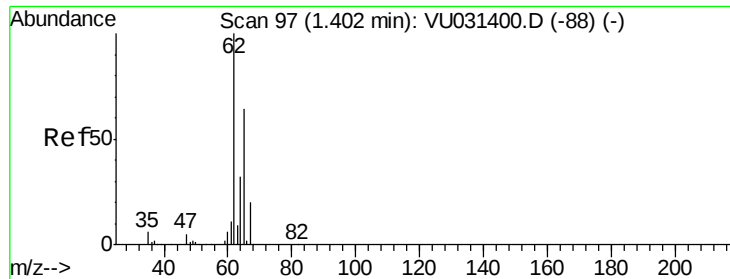
52 31.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU031400.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031400.D (-65) (-)





#5

Vinyl chloride

Concen: 8.988 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

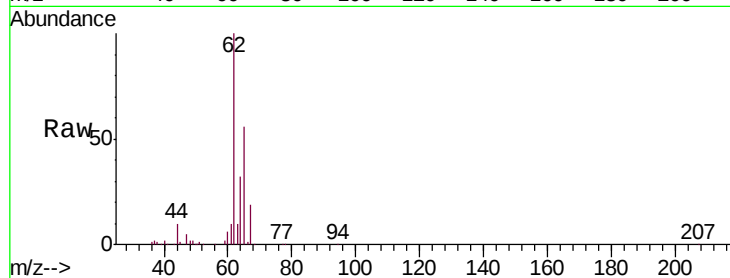
VSTD01049

Tgt Ion: 62 Resp: 67844

Ion Ratio Lower Upper

62 100

64 31.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU031400.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU031400.D (-88) (-)

1.40

60000

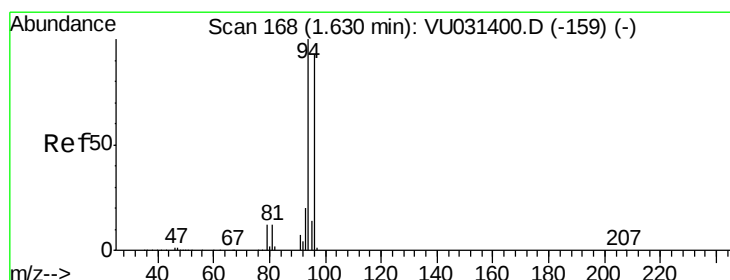
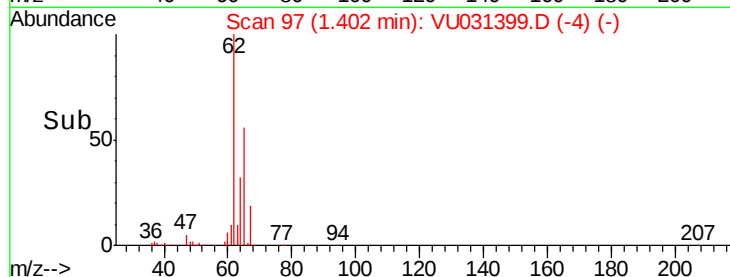
40000

20000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 8.254 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031399.D

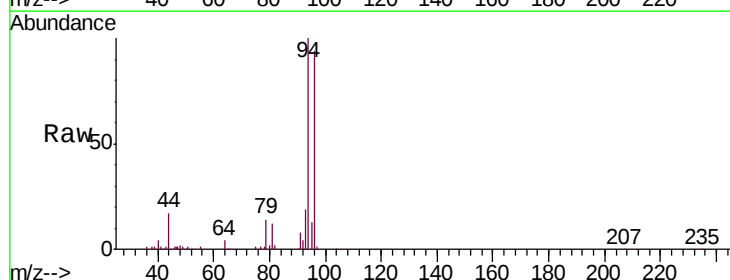
Acq: 22 Apr 2019 17:50

Tgt Ion: 94 Resp: 39830

Ion Ratio Lower Upper

94 100

96 94.4 65.1 120.9



Abundance Ion 94.00 (93.70 to 94.70): VU031400.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU031400.D (-159) (-)

1.63

40000

30000

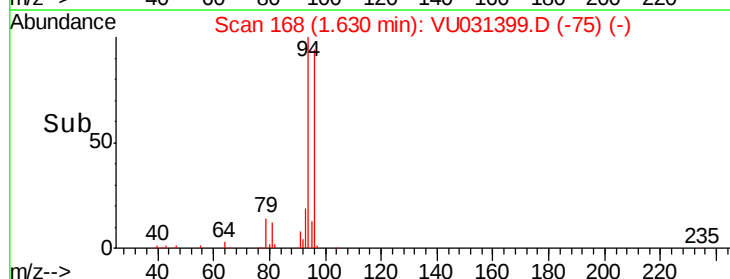
20000

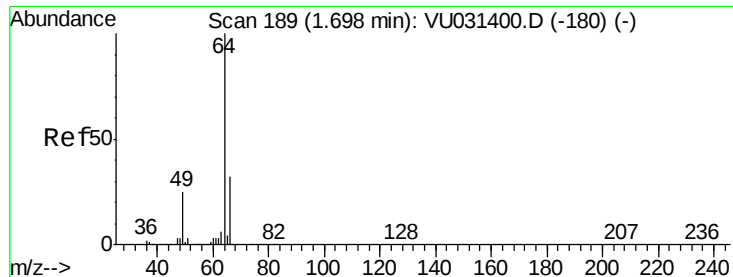
10000

0

Time-->

1.60 1.65





#8

Chloroethane

Concen: 8.193 ug/L

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

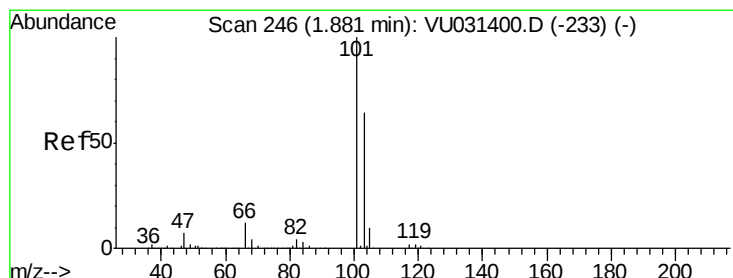
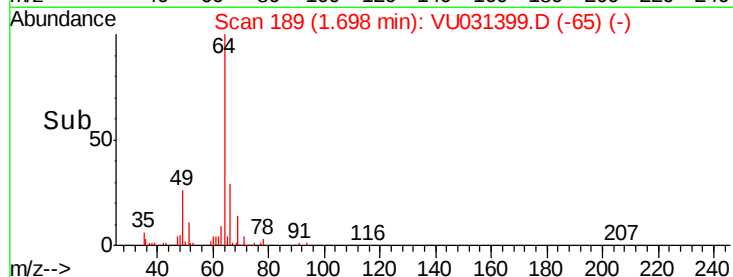
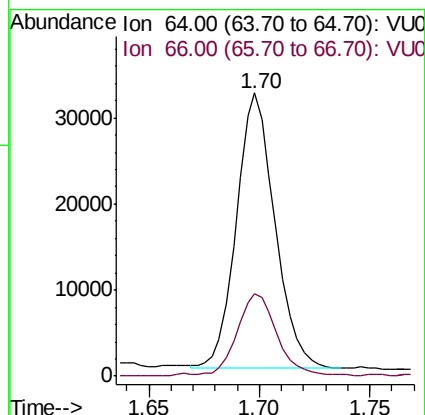
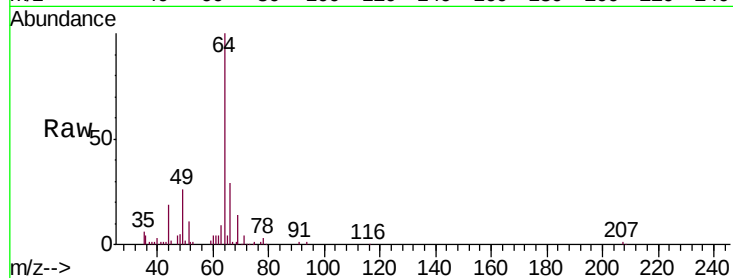
VSTD01049

Tgt Ion: 64 Resp: 38654

Ion Ratio Lower Upper

64 100

66 29.2 22.1 41.1



#9

Trichlorofluoromethane

Concen: 7.877 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031399.D

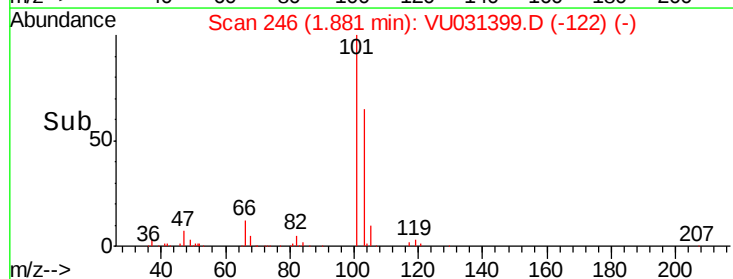
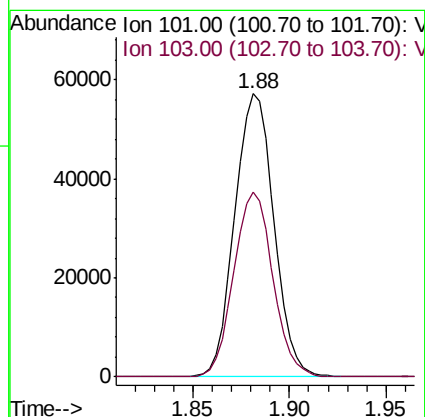
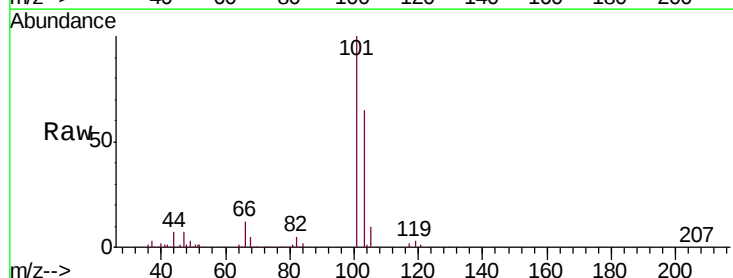
Acq: 22 Apr 2019 17:50

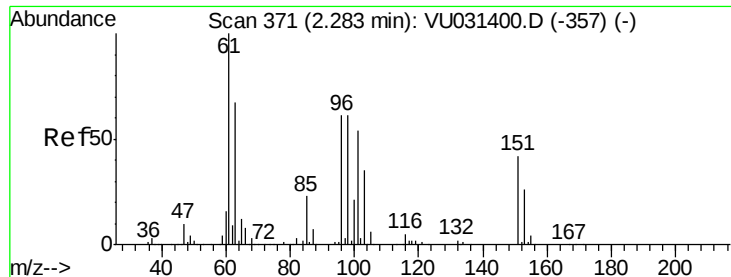
Tgt Ion: 101 Resp: 80552

Ion Ratio Lower Upper

101 100

103 65.1 51.4 77.2





#10

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

Concen: 8.726 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

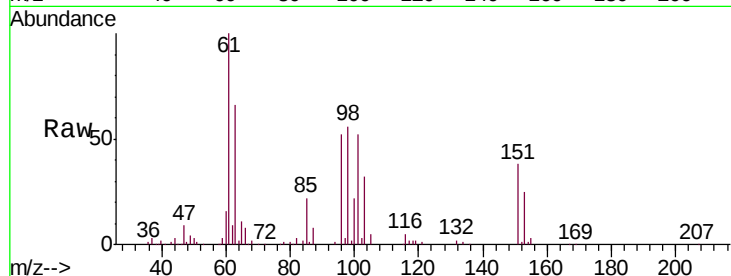
Tgt Ion: 101 Resp: 47630

Ion Ratio Lower Upper

101 100

85 42.2 33.1 49.7

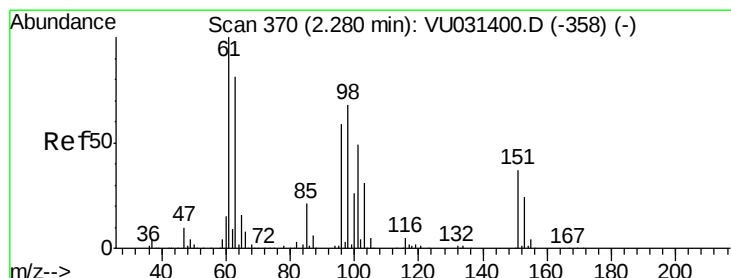
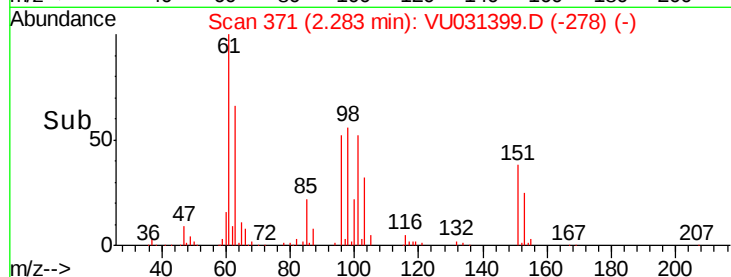
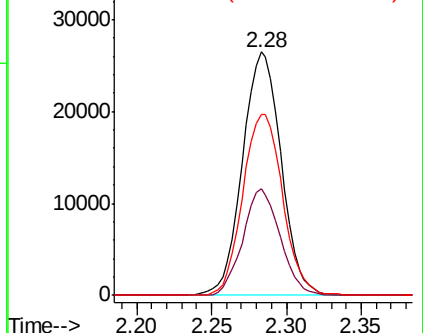
151 76.5 61.4 92.0



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: 8.357 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

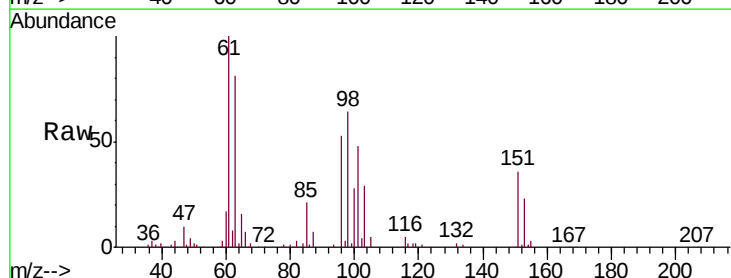
Tgt Ion: 96 Resp: 44836

Ion Ratio Lower Upper

96 100

61 189.3 118.9 220.9

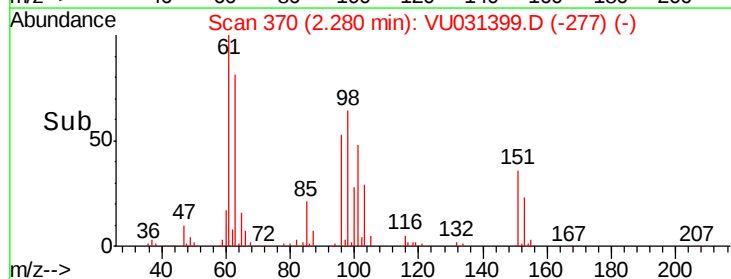
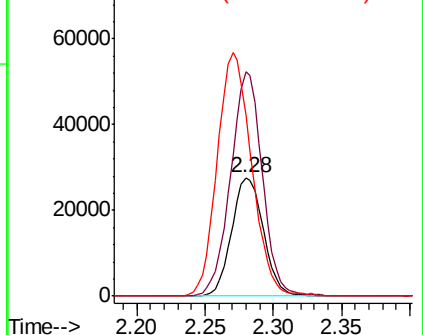
63 153.0 99.3 184.3

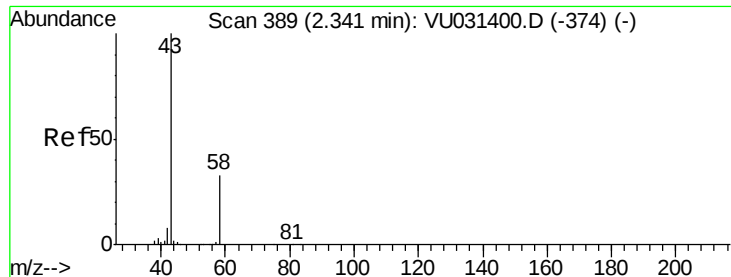


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 20.880 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

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MSVOA_U

ClientSampleId :

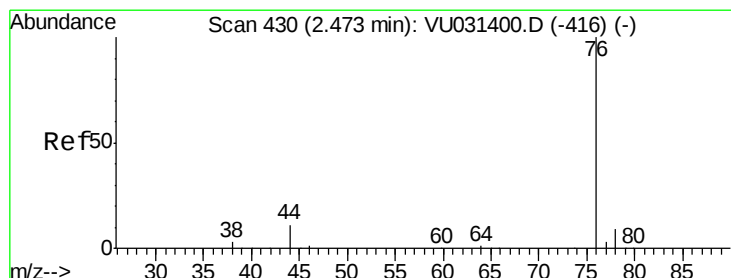
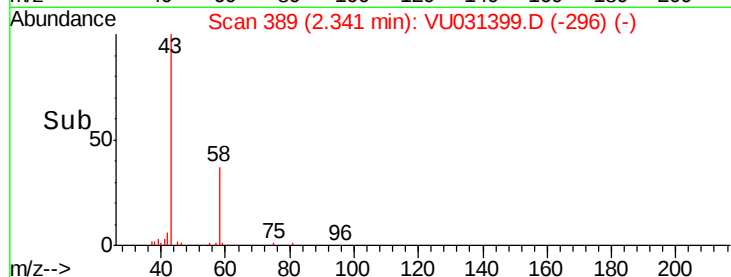
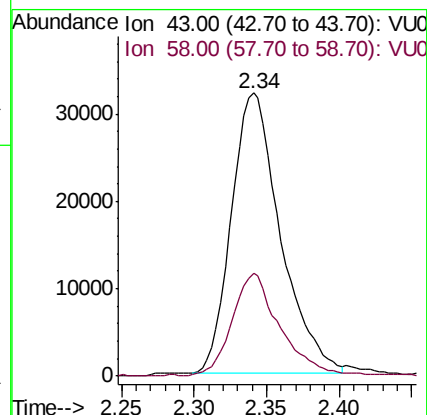
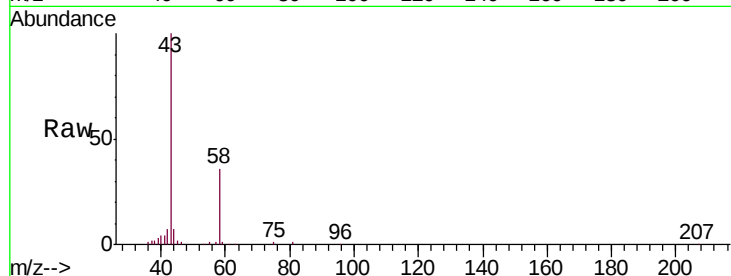
VSTD01049

Tgt Ion: 43 Resp: 75612

Ion Ratio Lower Upper

43 100

58 35.5 0.0 66.4



#14

Carbon disulfide

Concen: 9.495 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031399.D

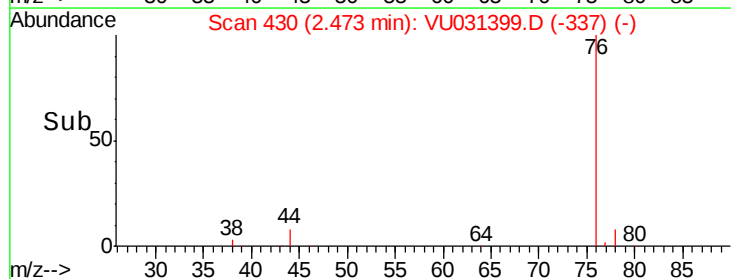
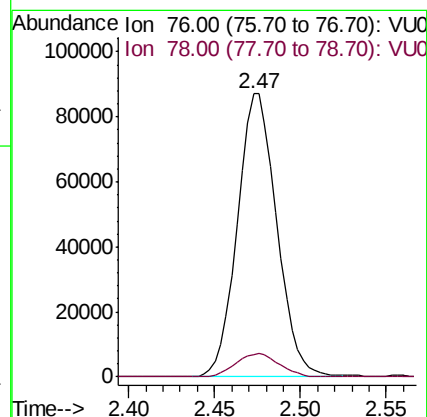
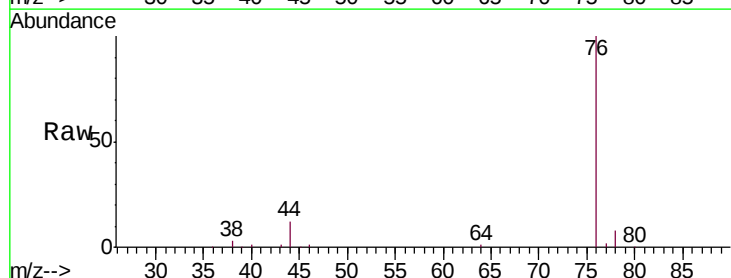
Acq: 22 Apr 2019 17:50

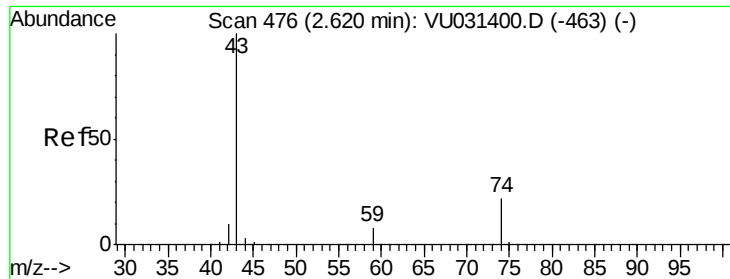
Tgt Ion: 76 Resp: 139344

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.2

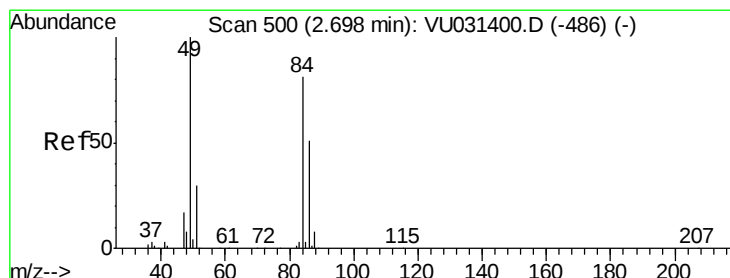
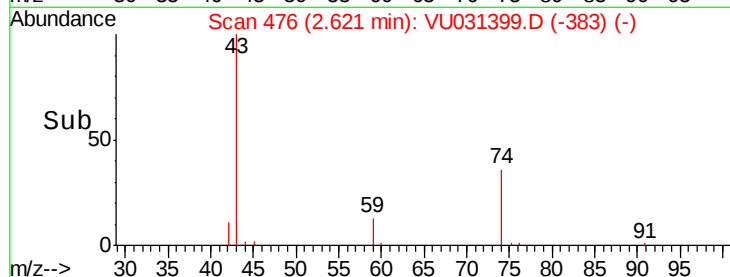
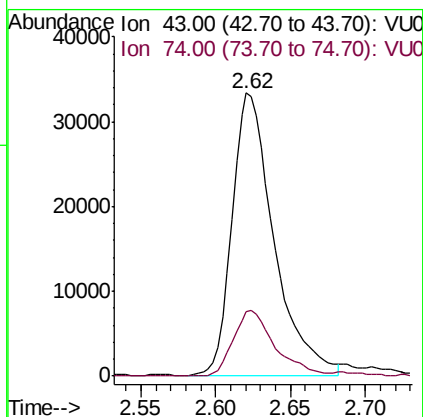
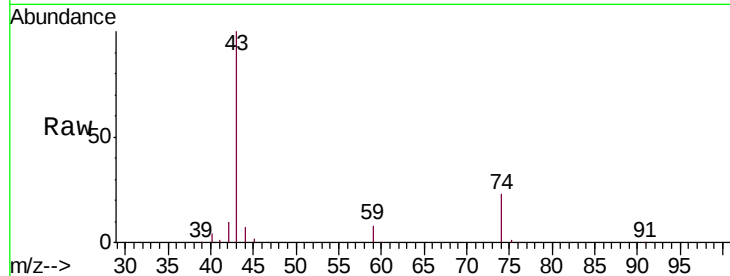




#15
Methyl Acetate
Concen: 10.334 ug/L
RT: 2.62 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

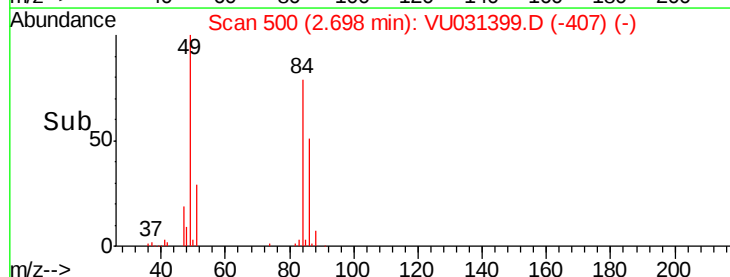
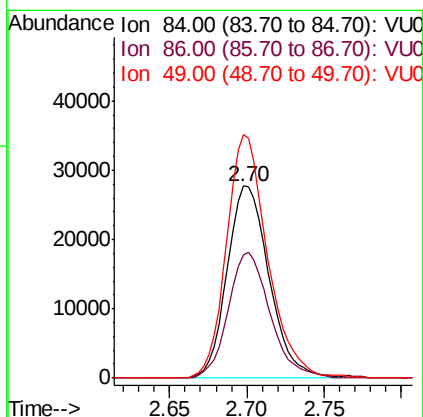
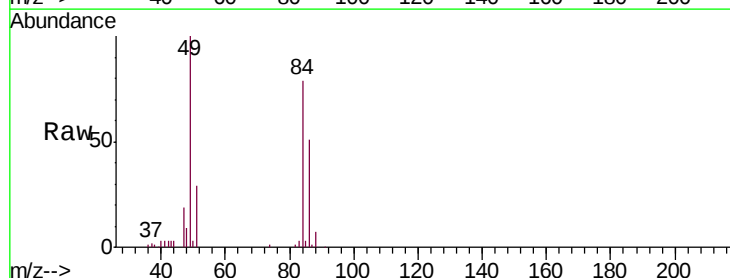
Instrument :
MSVOA_U
ClientSampleId :
VSTD01049

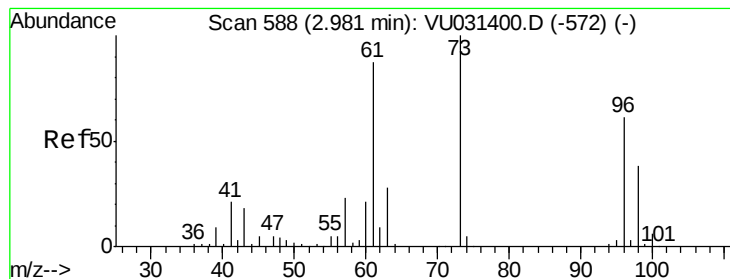
Tgt Ion: 43 Resp: 65295
Ion Ratio Lower Upper
43 100
74 23.0 18.1 27.1



#16
Methylene chloride
Concen: 9.819 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

Tgt Ion: 84 Resp: 52317
Ion Ratio Lower Upper
84 100
86 64.5 44.4 82.5
49 126.9 86.7 161.1





#17

trans-1,2-Dichloroethene

Concen: 9.361 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

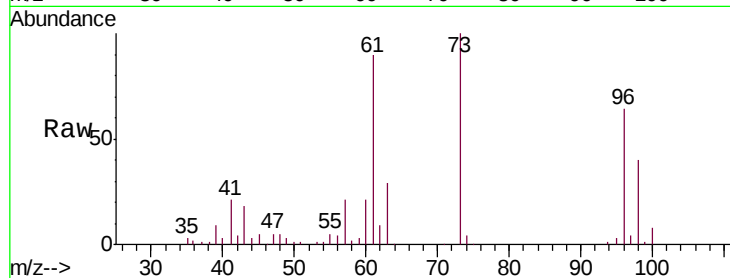
Tgt Ion: 96 Resp: 46917

Ion Ratio Lower Upper

96 100

61 141.8 100.3 186.3

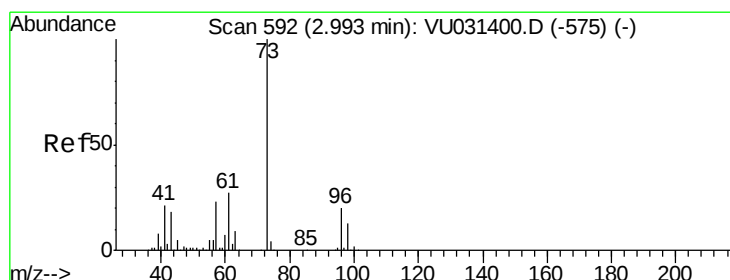
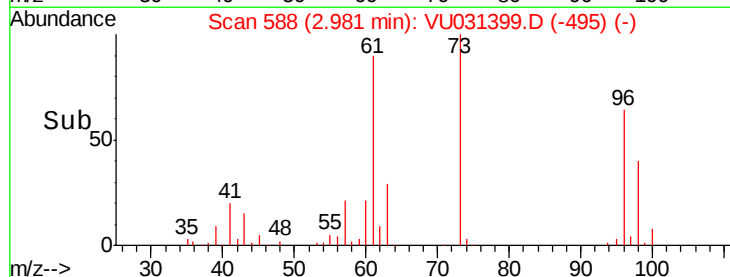
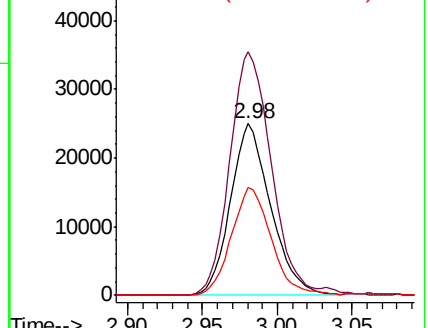
98 62.7 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031400.D (-572) (-)

Ion 61.00 (60.70 to 61.70): VU031400.D (-572) (-)

Ion 98.00 (97.70 to 98.70): VU031400.D (-572) (-)



#18

Methyl tert-butyl Ether

Concen: 9.644 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

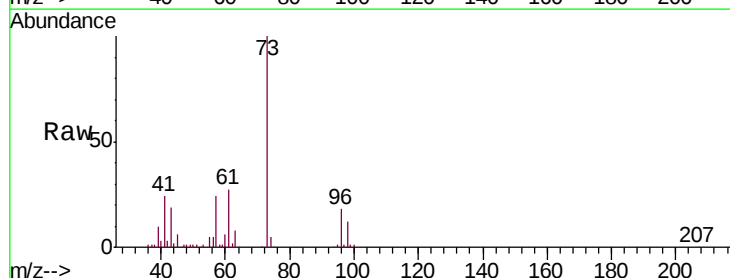
Tgt Ion: 73 Resp: 152176

Ion Ratio Lower Upper

73 100

43 18.4 14.6 21.8

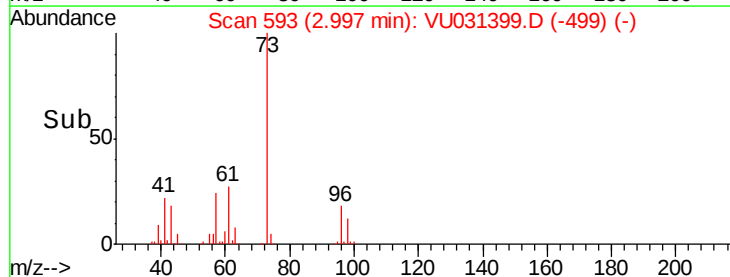
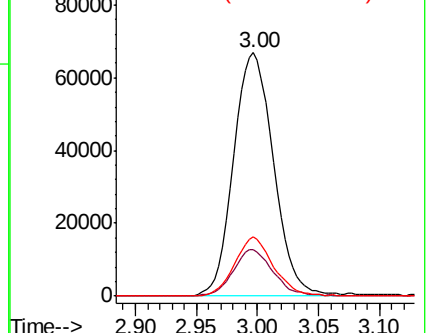
57 23.4 18.5 27.7

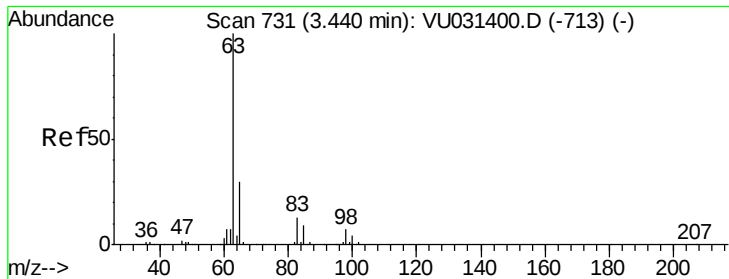


Abundance Ion 73.00 (72.70 to 73.70): VU031400.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU031400.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU031400.D (-575) (-)





#19

1,1-Dichloroethane

Concen: 9.532 ug/L

RT: 3.44 min Scan# 732

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampled :

VSTD01049

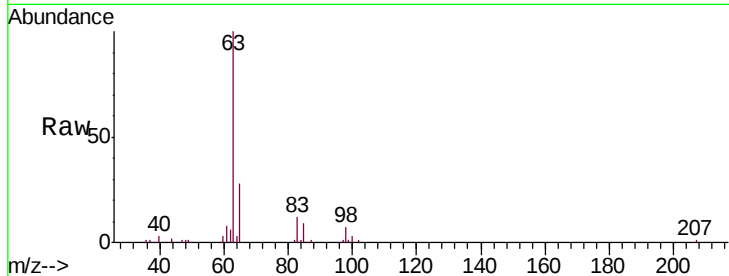
Tgt Ion: 63 Resp: 93971

Ion Ratio Lower Upper

63 100

65 28.0 21.2 39.4

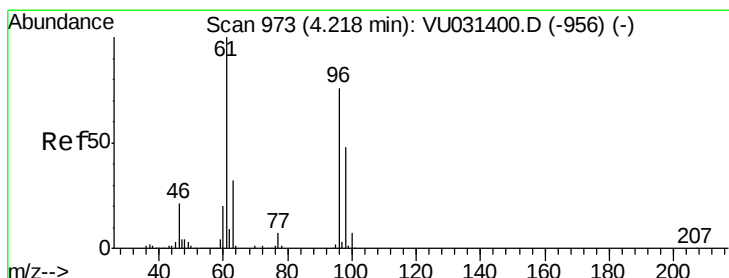
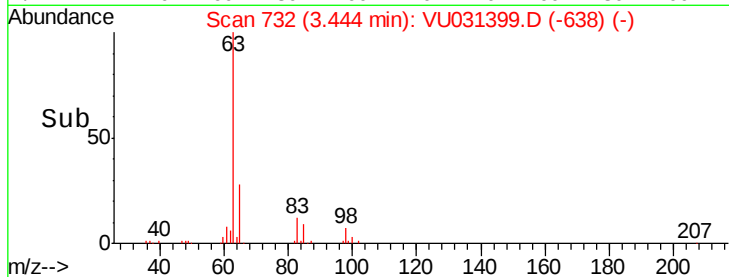
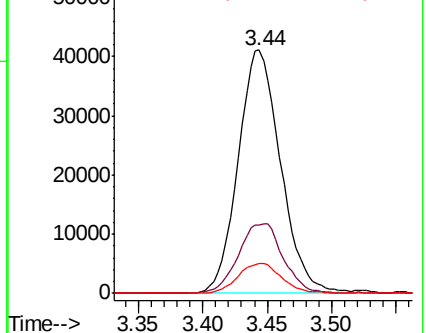
83 12.0 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU031400.D (-713) (-)

Ion 65.00 (64.70 to 65.70): VU031400.D (-713) (-)

Ion 83.00 (82.70 to 83.70): VU031400.D (-713) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.456 ug/L

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

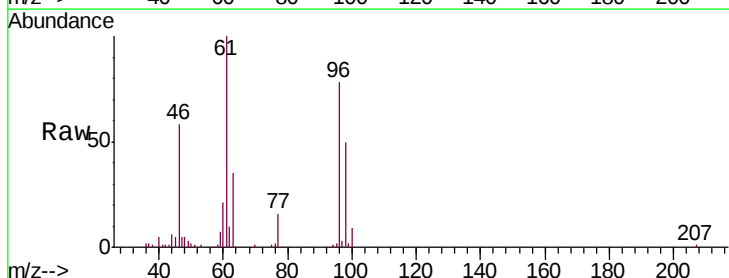
Tgt Ion: 96 Resp: 53629

Ion Ratio Lower Upper

96 100

61 128.6 91.9 170.7

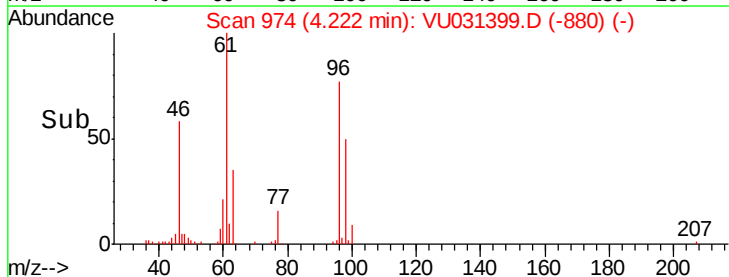
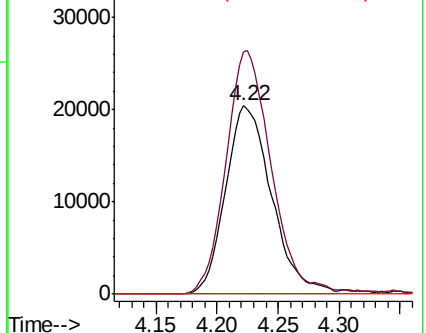
68 0.0 0.0 0.0

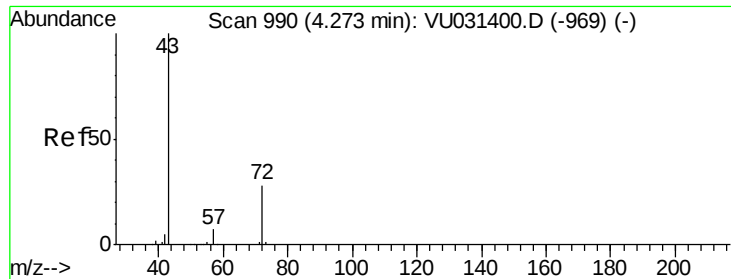


Abundance Ion 96.00 (95.70 to 96.70): VU031400.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU031400.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU031400.D (-956) (-)





#22

2-Butanone

Concen: 18.316 ug/L

RT: 4.28 min Scan# 993

Delta R.T. 0.01 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

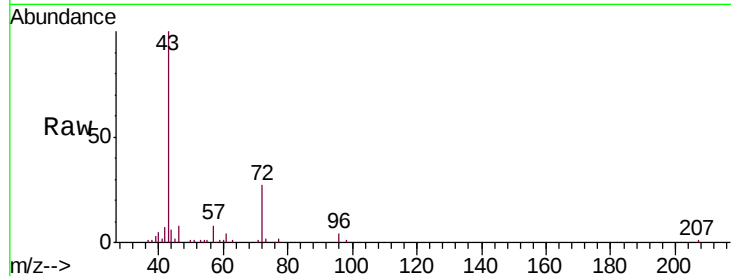
VSTD01049

Tgt Ion: 43 Resp: 88590

Ion Ratio Lower Upper

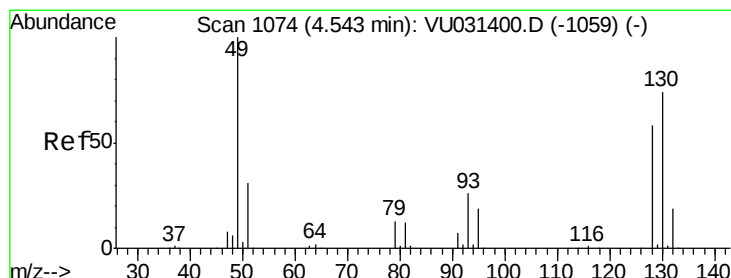
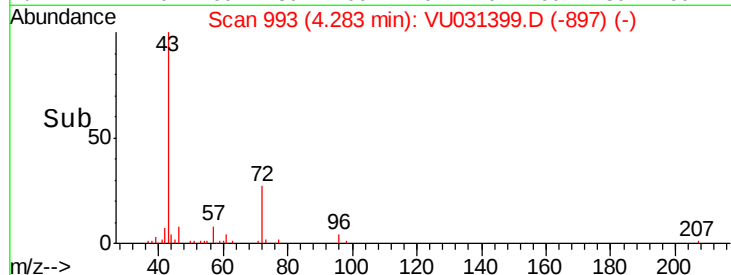
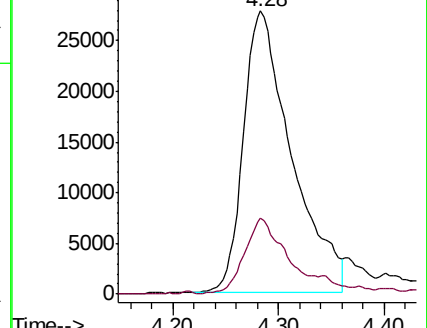
43 100

72 22.7 12.6 37.8



Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU031400.D (-969) (-)



#23

Bromochloromethane

Concen: 9.759 ug/L

RT: 4.55 min Scan# 1076

Delta R.T. 0.01 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Tgt Ion: 128 Resp: 27439

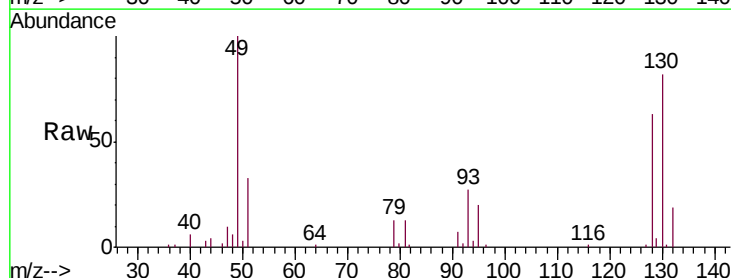
Ion Ratio Lower Upper

128 100

49 159.4 120.1 223.1

130 131.2 88.5 164.3

51 52.8 43.0 64.4

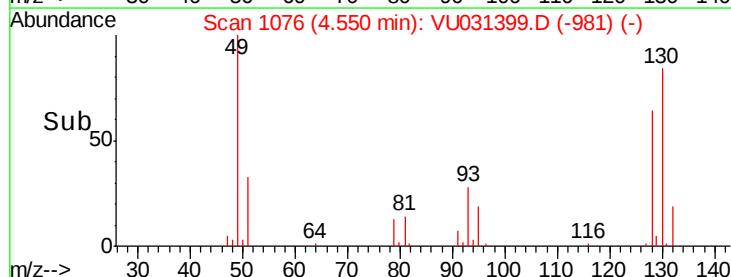
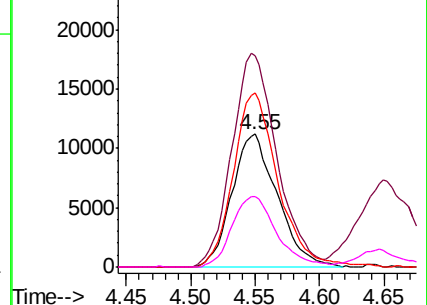


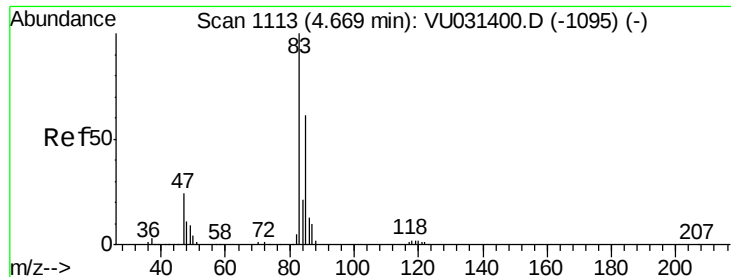
Abundance Ion 128.00 (127.70 to 128.70): VU031400.D (-1059) (-)

Ion 49.00 (48.70 to 49.70): VU031400.D (-1059) (-)

Ion 130.00 (129.70 to 130.70): VU031400.D (-1059) (-)

Ion 51.00 (50.70 to 51.70): VU031400.D (-1059) (-)





#25

Chloroform

Concen: 9.176 ug/L

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

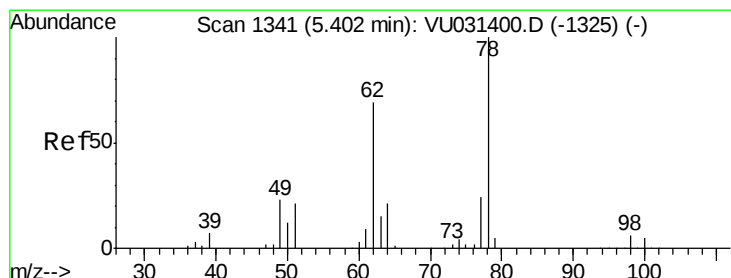
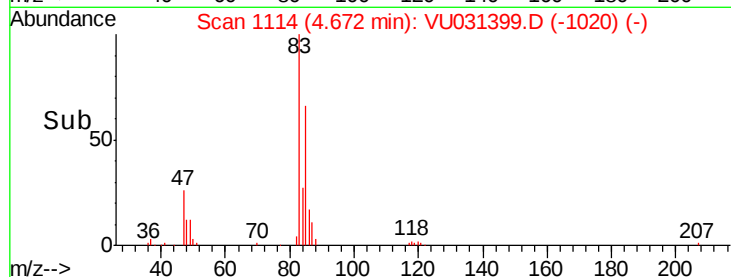
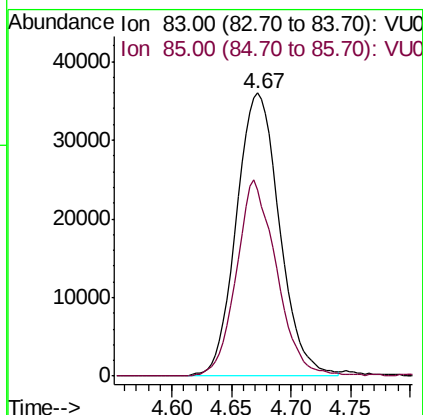
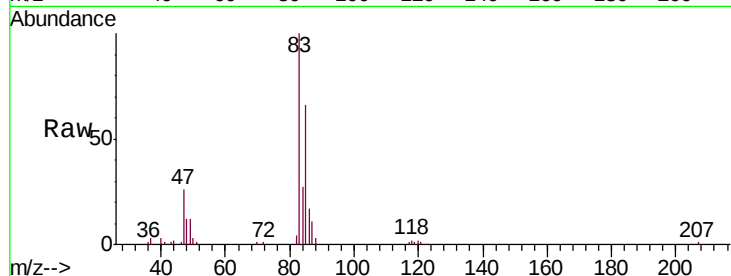
VSTD01049

Tgt Ion: 83 Resp: 90345

Ion Ratio Lower Upper

83 100

85 65.8 43.0 79.8



#27

1,2-Dichloroethane

Concen: 9.100 ug/L

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU031399.D

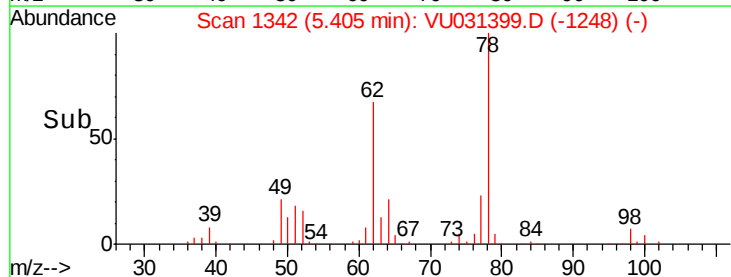
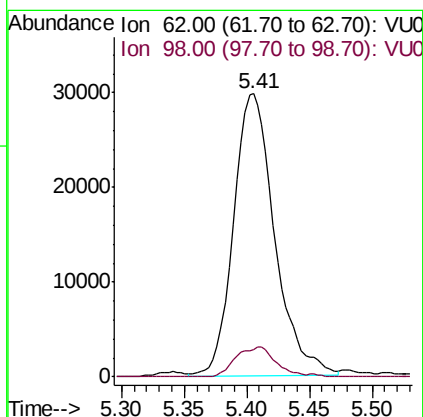
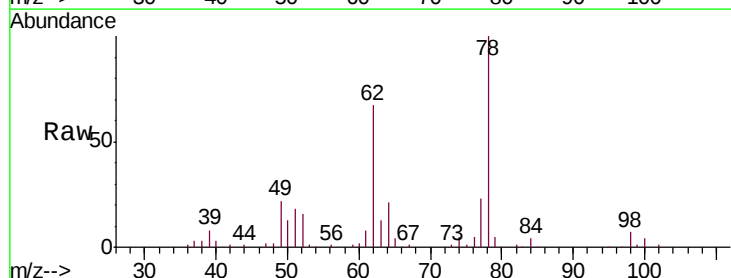
Acq: 22 Apr 2019 17:50

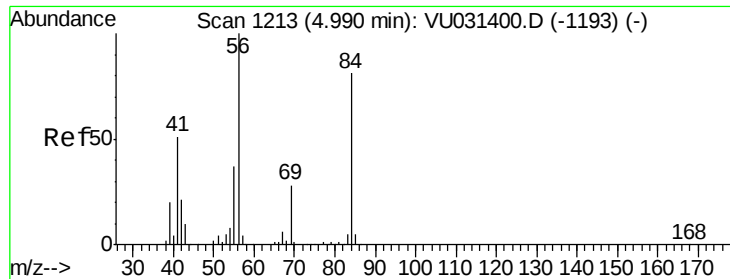
Tgt Ion: 62 Resp: 68025

Ion Ratio Lower Upper

62 100

98 9.9 7.3 10.9

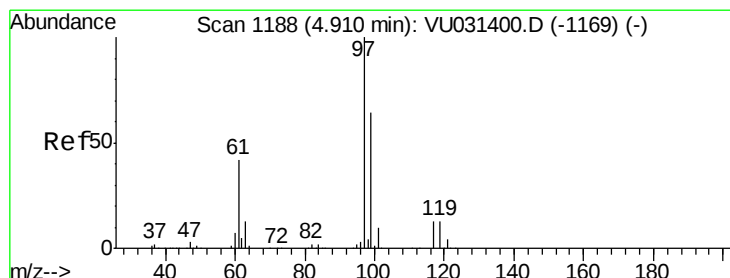
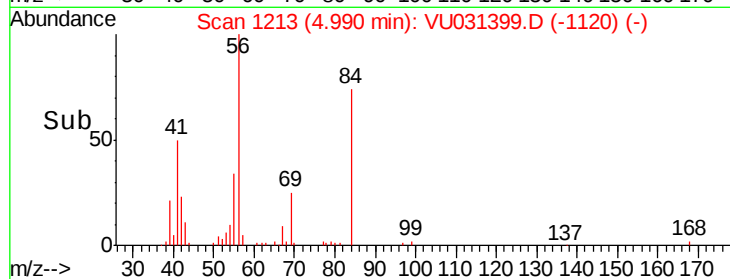
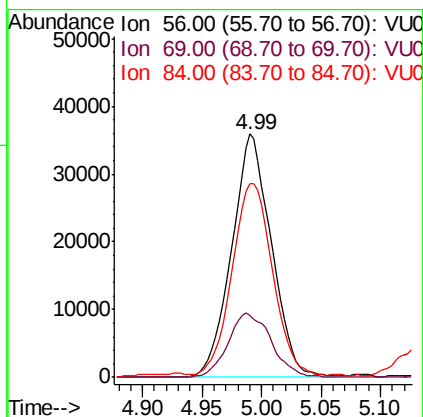
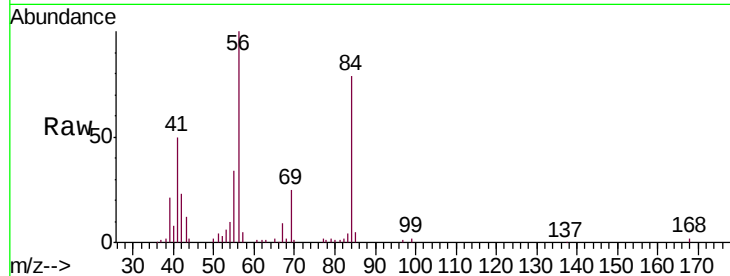




#29
Cyclohexane
Concen: 9.238 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

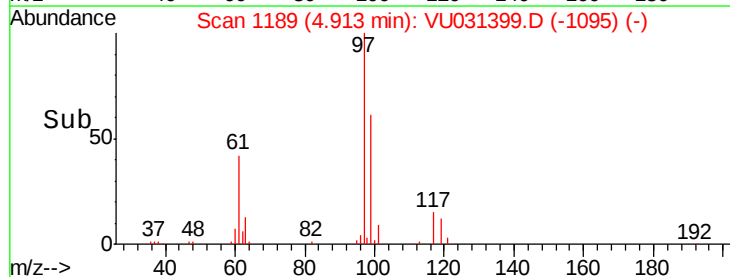
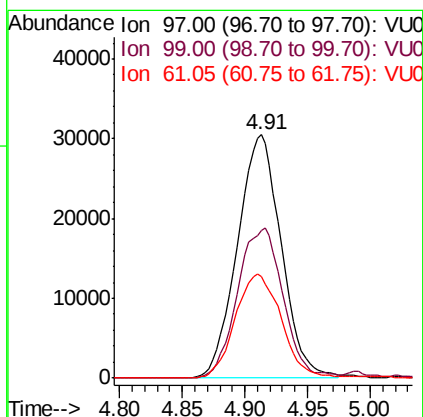
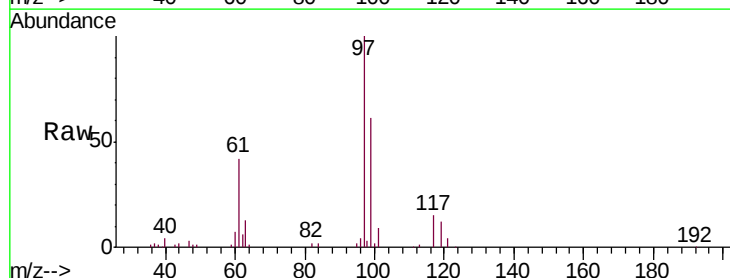
Instrument :
MSVOA_U
ClientSampleId :
VSTD01049

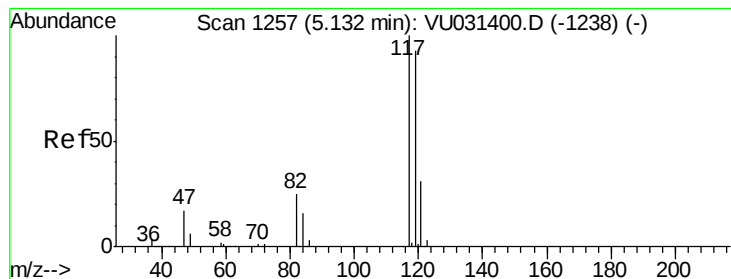
Tgt Ion: 56 Resp: 82923
Ion Ratio Lower Upper
56 100
69 28.7 23.3 34.9
84 80.5 64.6 96.8



#30
1,1,1-Trichloroethane
Concen: 8.800 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

Tgt Ion: 97 Resp: 74027
Ion Ratio Lower Upper
97 100
99 63.4 52.0 78.0
61 44.9 33.9 50.9





#31

Carbon tetrachloride

Concen: 8.866 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

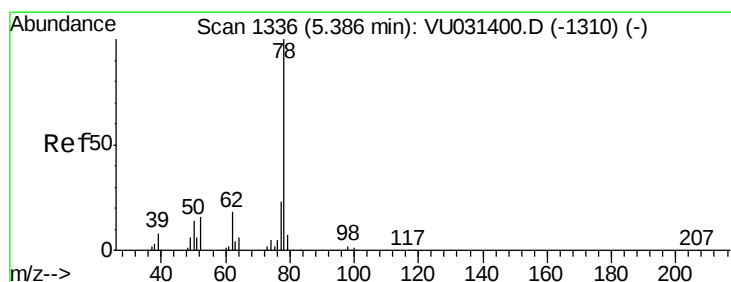
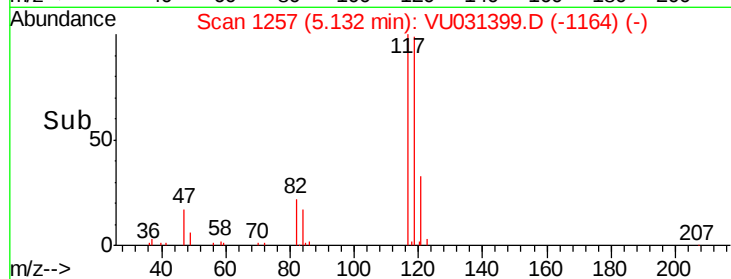
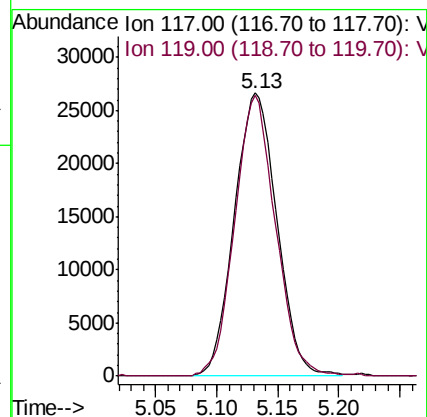
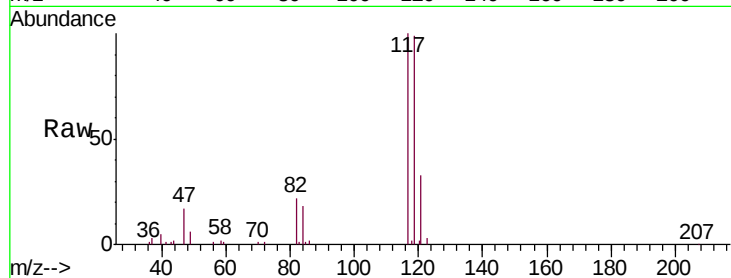
VSTD01049

Tgt Ion:117 Resp: 64452

Ion Ratio Lower Upper

117 100

119 95.0 76.2 114.4



#33

Benzene

Concen: 9.332 ug/L

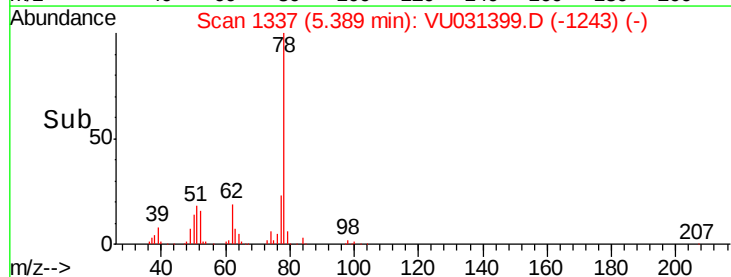
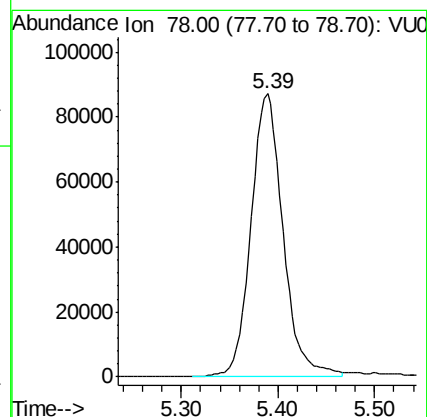
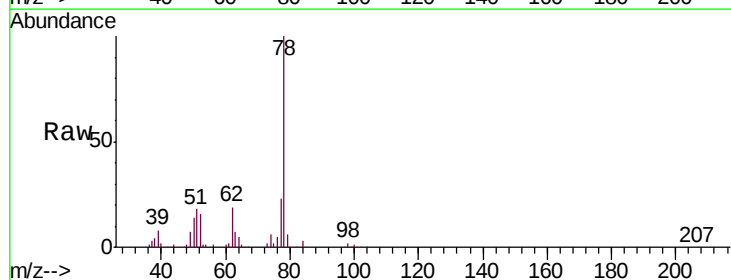
RT: 5.39 min Scan# 1337

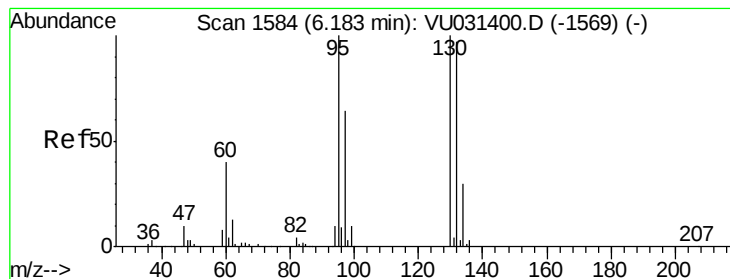
Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Tgt Ion: 78 Resp: 201048





#34

Trichloroethene

Concen: 9.955 ug/L

RT: 6.19 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

Tgt Ion: 95 Resp: 54223

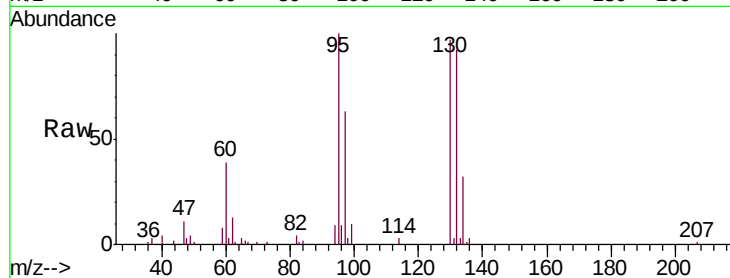
Ion Ratio Lower Upper

95 100

97 63.5 44.9 83.5

132 92.1 68.0 126.2

130 96.8 70.1 130.1

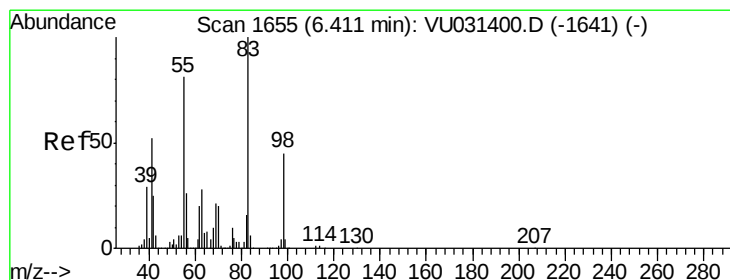
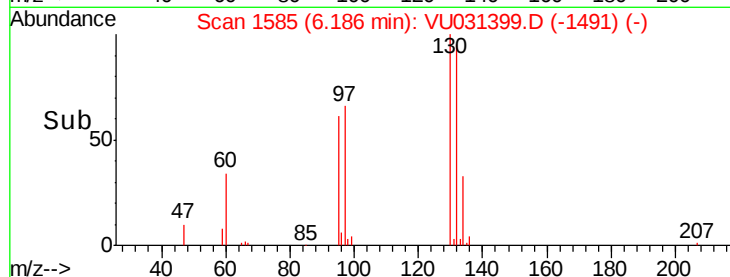
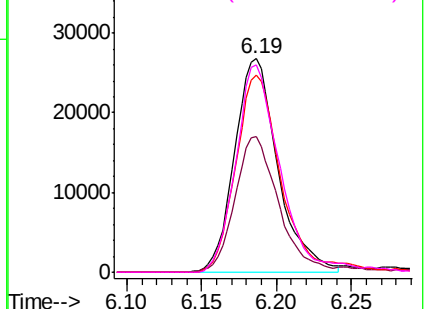


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.481 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

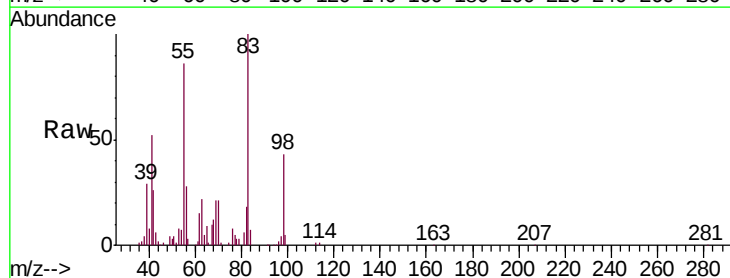
Tgt Ion: 83 Resp: 77071

Ion Ratio Lower Upper

83 100

55 80.9 65.4 98.0

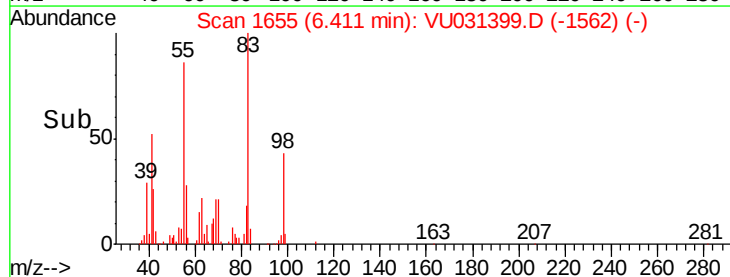
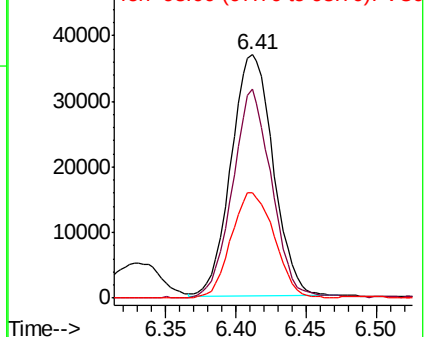
98 44.7 36.8 55.2

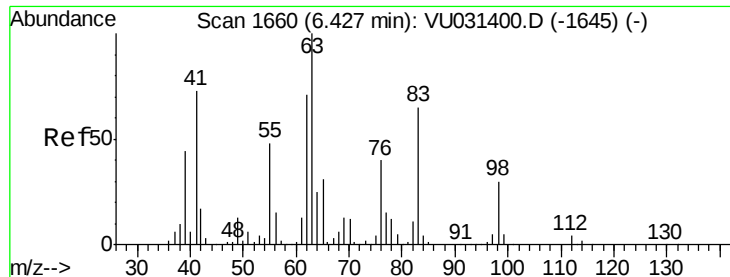


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

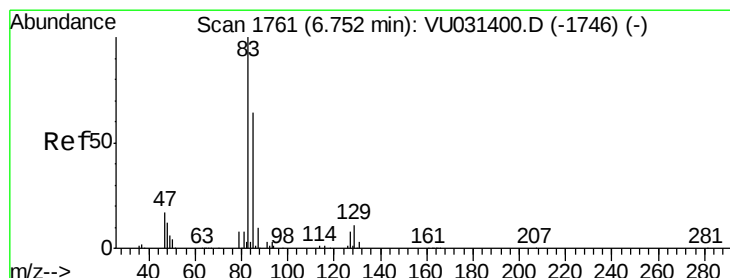
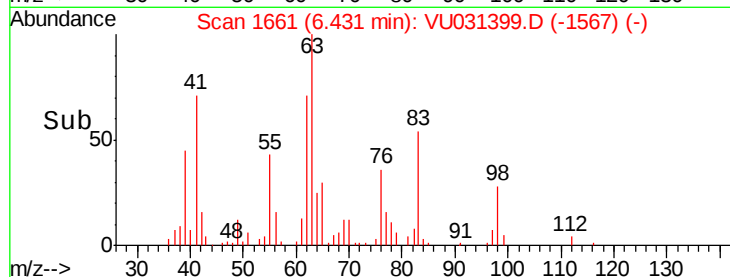
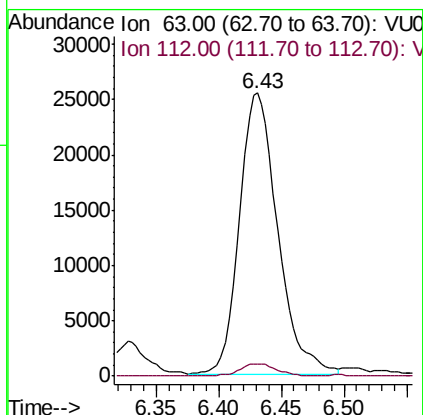
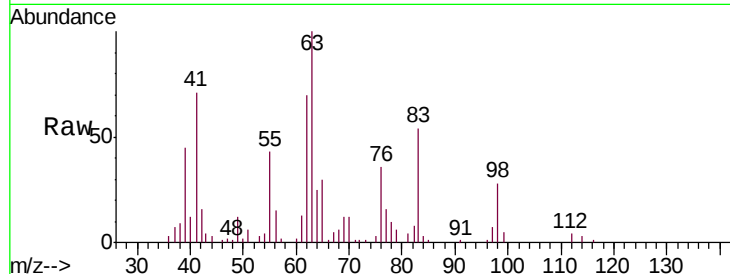




#37
 1,2-Dichloropropane
 Concen: 9.377 ug/L
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

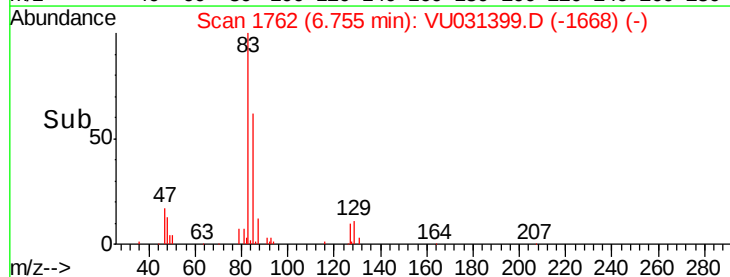
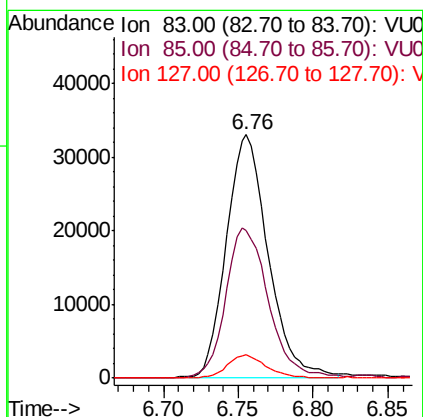
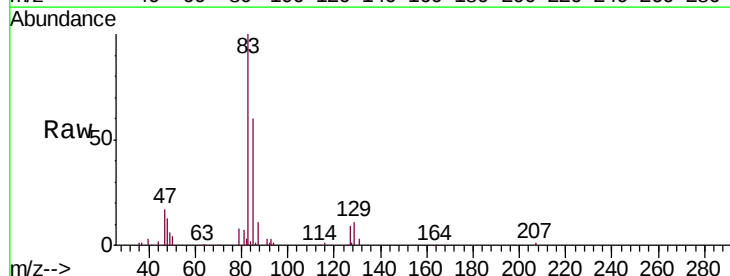
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01049

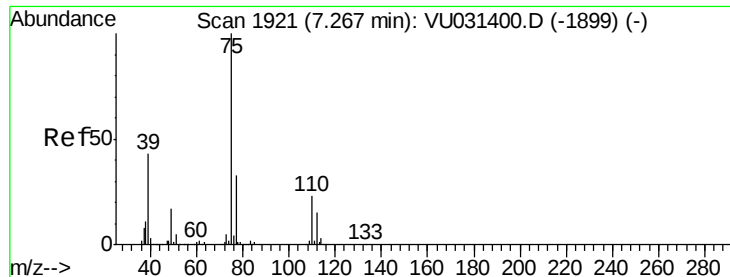
Tgt Ion: 63 Resp: 53904
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#38
 Bromodichloromethane
 Concen: 8.910 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Tgt Ion: 83 Resp: 64635
 Ion Ratio Lower Upper
 83 100
 85 60.5 45.0 83.6
 127 9.4 6.7 10.1

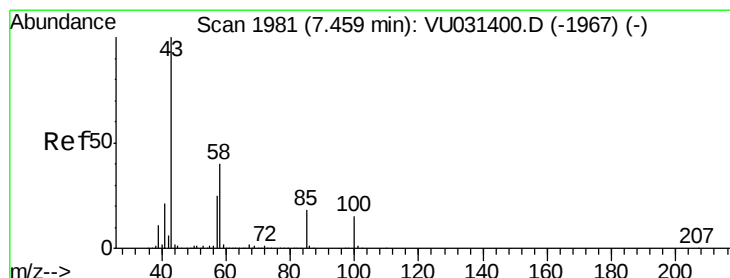
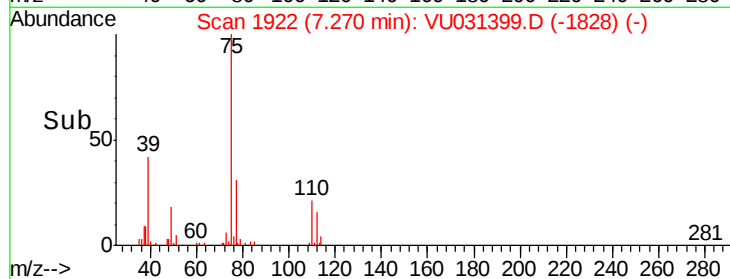
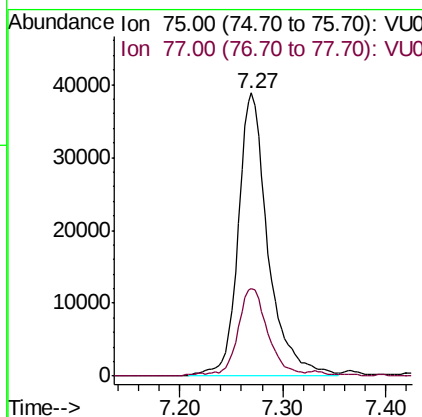
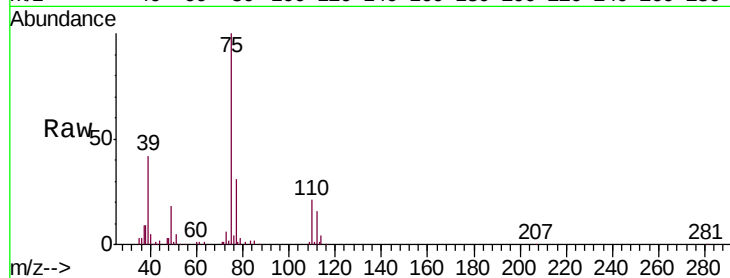




#39
 cis-1,3-Dichloropropene
 Concen: 9.051 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

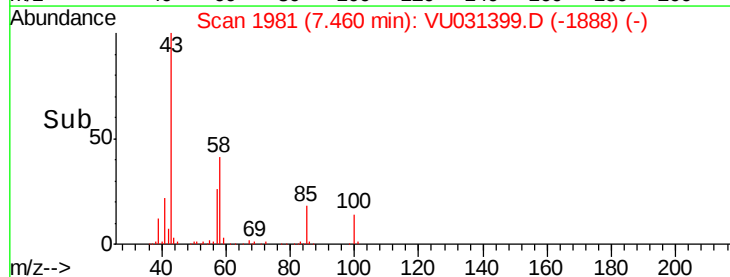
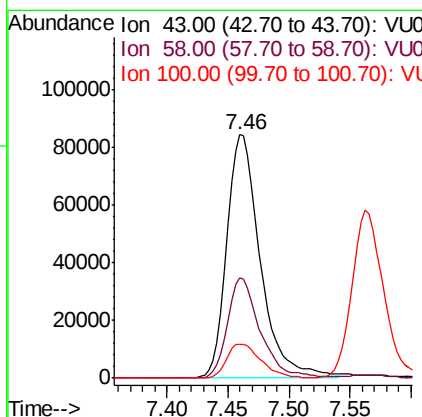
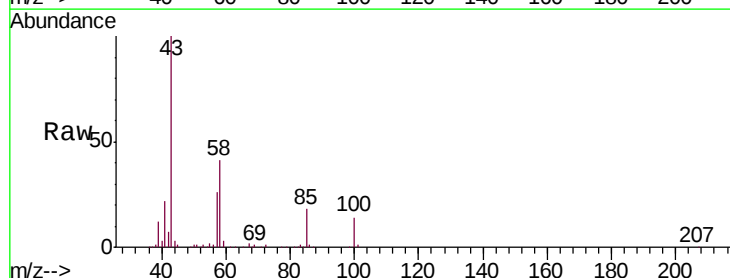
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01049

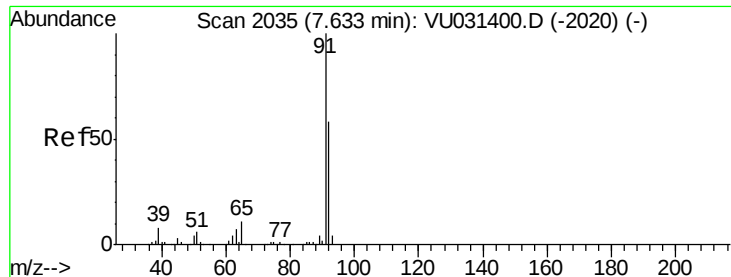
Tgt Ion: 75 Resp: 78427
 Ion Ratio Lower Upper
 75 100
 77 31.1 23.0 42.8



#40
 4-Methyl-2-pentanone
 Concen: 19.826 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Tgt Ion: 43 Resp: 161969
 Ion Ratio Lower Upper
 43 100
 58 40.5 32.3 48.5
 100 14.4 11.8 17.8





#42

Toluene

Concen: 9.407 ug/L

RT: 7.64 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

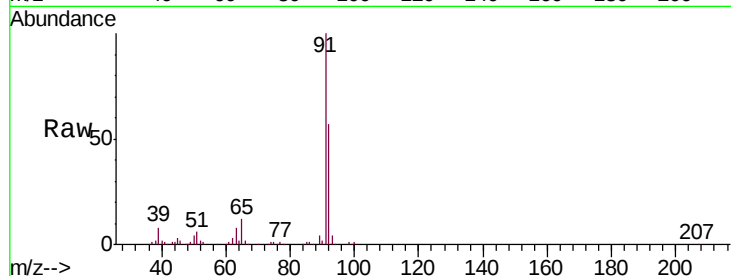
VSTD01049

Tgt Ion: 91 Resp: 204320

Ion Ratio Lower Upper

91 100

92 57.1 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU031400.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU031400.D (-2020) (-)

7.64

120000

100000

80000

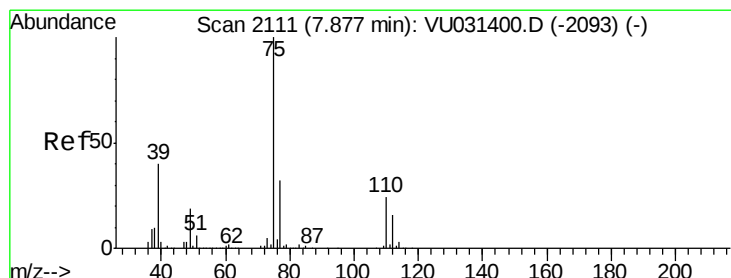
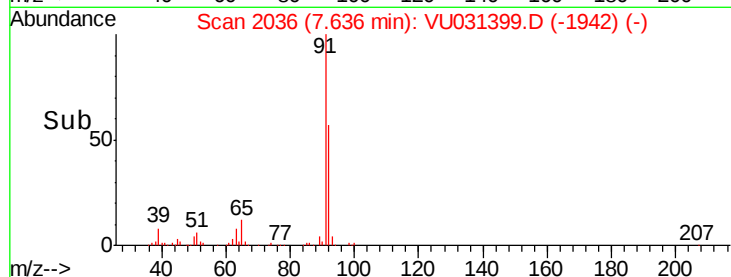
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 8.987 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU031399.D

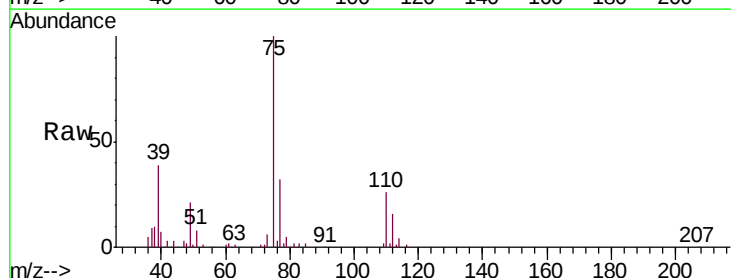
Acq: 22 Apr 2019 17:50

Tgt Ion: 75 Resp: 66895

Ion Ratio Lower Upper

75 100

77 31.6 22.3 41.3



Abundance Ion 75.00 (74.70 to 75.70): VU031400.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU031400.D (-2093) (-)

7.88

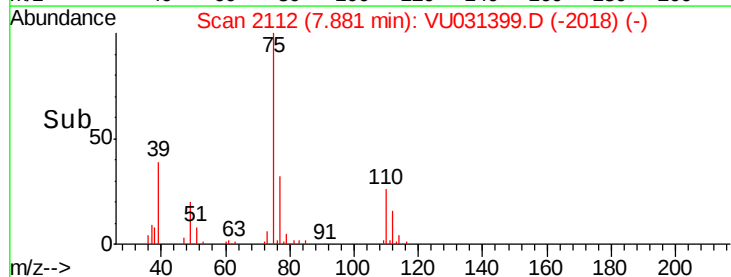
30000

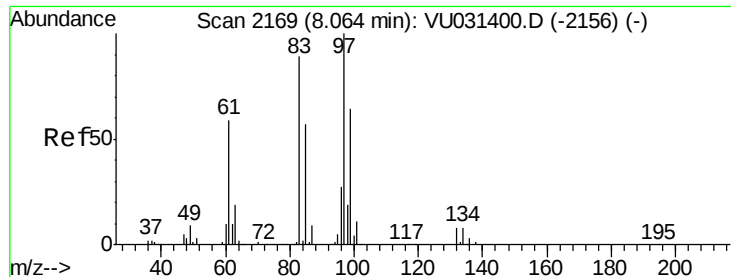
20000

10000

0

Time--> 7.80 7.90 8.00

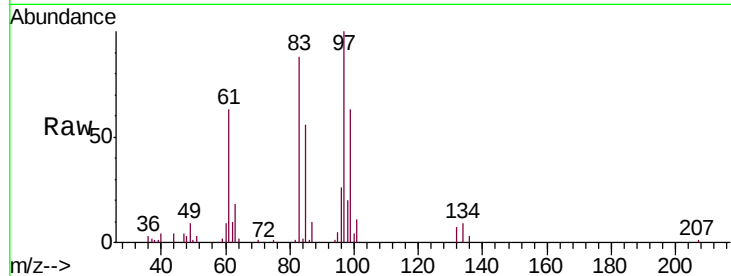




#45
 1,1,2-Trichloroethane
 Concen: 9.451 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01049

Tgt Ion:	97	Resp:	48872
Ion	Ratio	Lower	Upper
97	100		
99	62.7	44.9	83.3
83	88.1	62.5	116.1
85	56.4	39.6	73.6



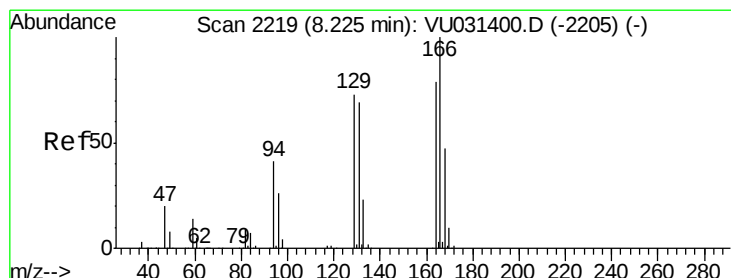
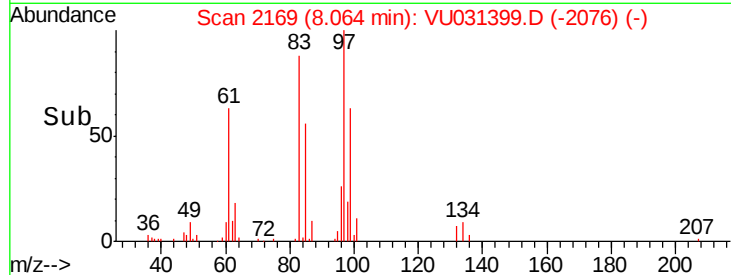
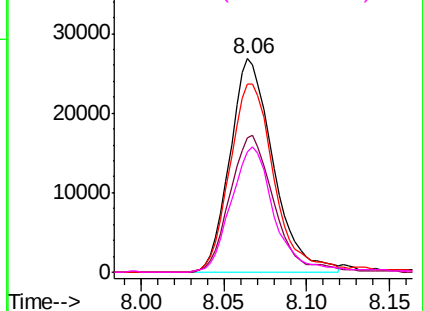
Abundance

Ion 97.00 (96.70 to 97.70): VU031400.D (-2156) (-)

Ion 99.00 (98.70 to 99.70): VU031400.D (-2156) (-)

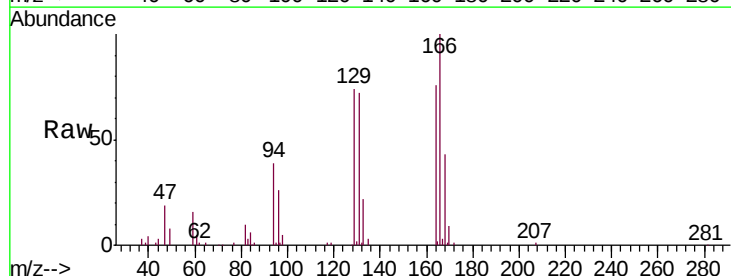
Ion 83.00 (82.70 to 83.70): VU031400.D (-2156) (-)

Ion 85.00 (84.70 to 85.70): VU031400.D (-2156) (-)



#46
 Tetrachloroethene
 Concen: 9.099 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Tgt Ion:	164	Resp:	37143
Ion	Ratio	Lower	Upper
164	100		
129	98.2	65.2	121.0
131	95.6	61.4	114.0
166	132.1	89.2	165.6



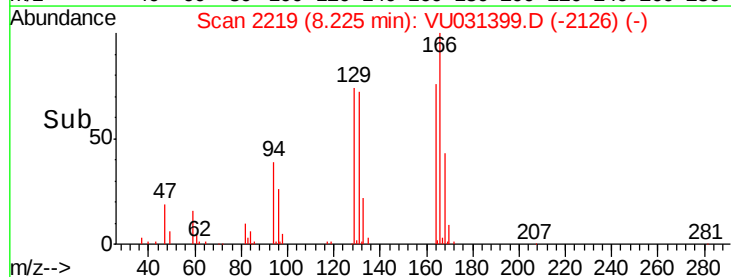
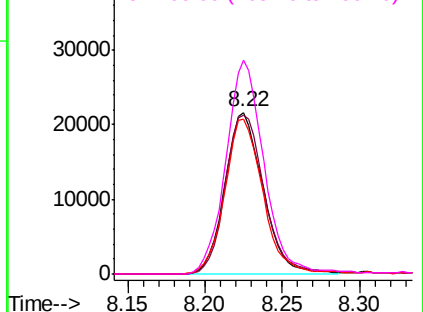
Abundance

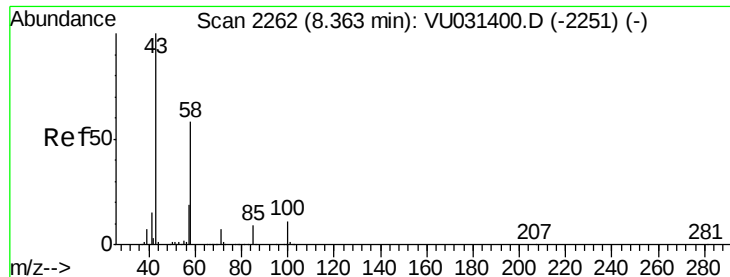
Ion 164.00 (163.70 to 164.70): VU031400.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU031400.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU031400.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU031400.D (-2205) (-)

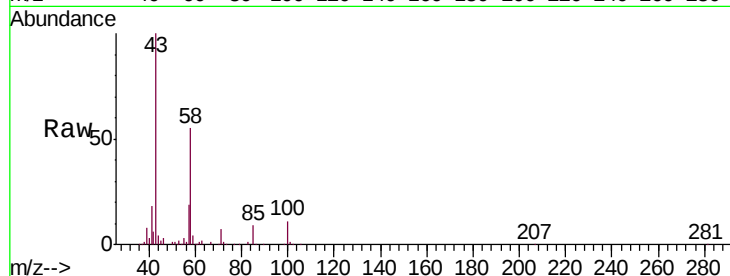




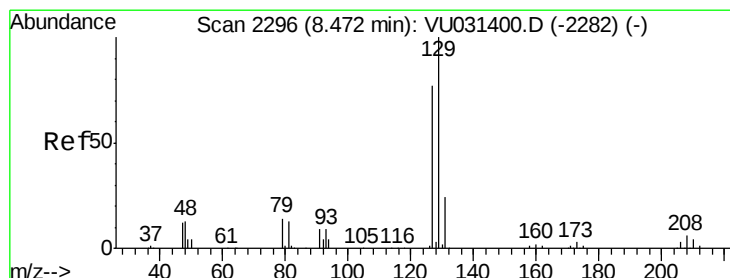
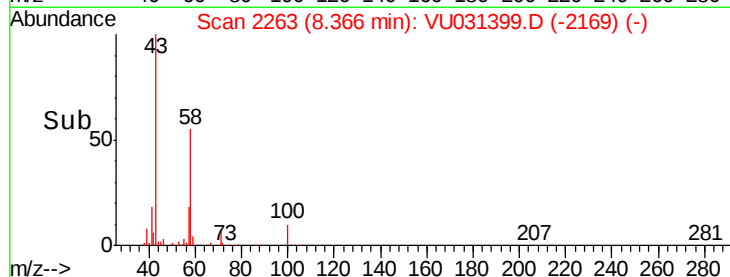
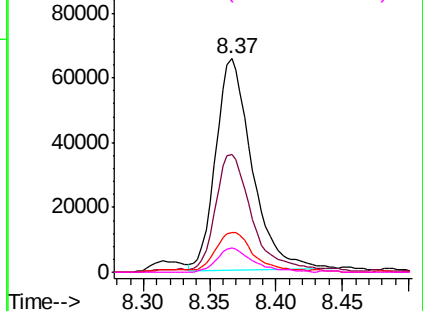
#48
2-Hexanone
Concen: 19.094 ug/L
RT: 8.37 min Scan# 2263
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD01049

Tgt Ion:	43	Resp:	123889
Ion	Ratio	Lower	Upper
43	100		
58	58.1	45.5	68.3
57	20.1	15.2	22.8
100	11.7	9.1	13.7

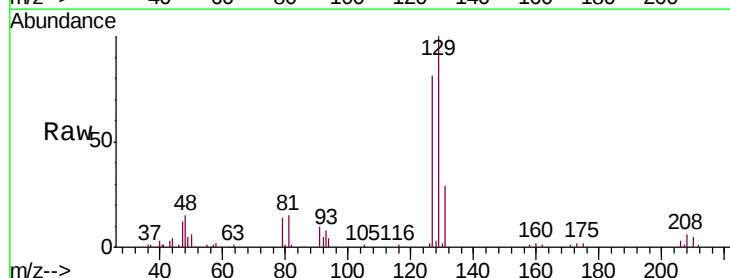


Abundance Ion 43.00 (42.70 to 43.70): VU031400.D (-2251) (-)
Ion 58.00 (57.70 to 58.70): VU031400.D (-2251) (-)
Ion 57.00 (56.70 to 57.70): VU031400.D (-2251) (-)
Ion 100.00 (99.70 to 100.70): VU031400.D (-2251) (-)

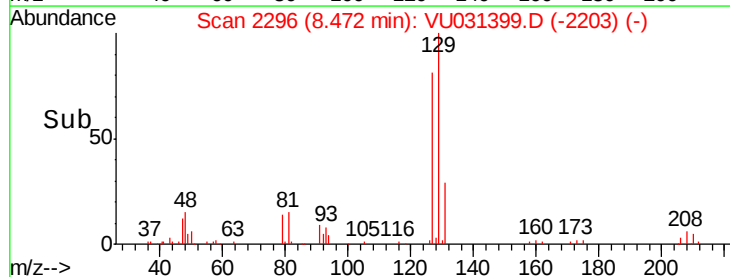
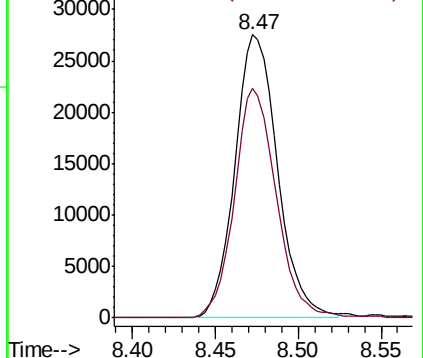


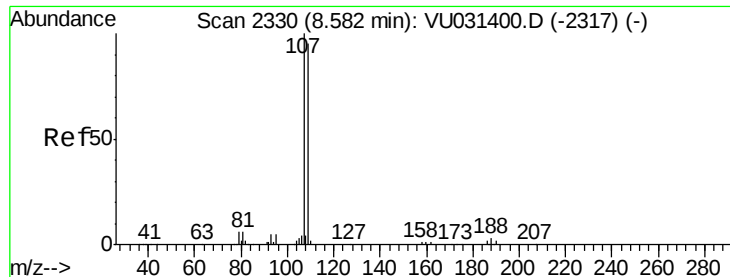
#49
Dibromochloromethane
Concen: 8.854 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

Tgt Ion:	129	Resp:	49426
Ion	Ratio	Lower	Upper
129	100		
127	81.1	54.2	100.6



Abundance Ion 129.00 (128.70 to 129.70): VU031400.D (-2282) (-)
Ion 127.00 (126.70 to 127.70): VU031400.D (-2282) (-)

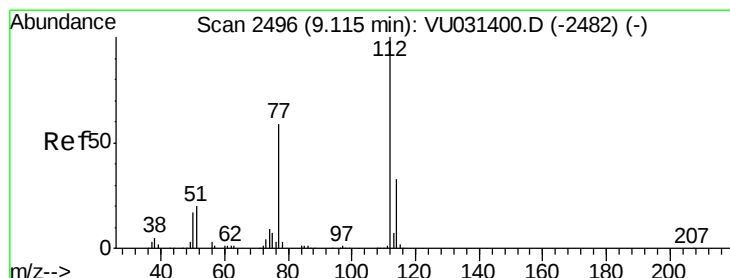
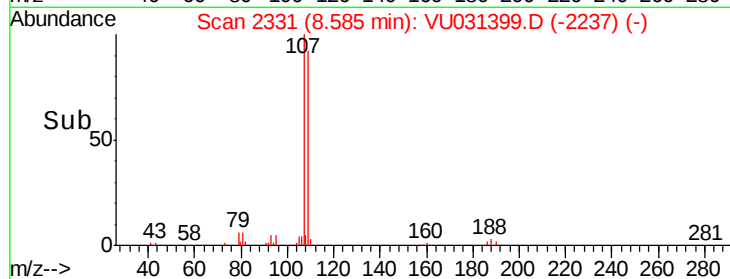
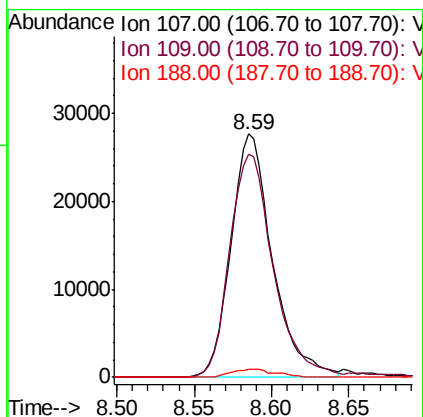
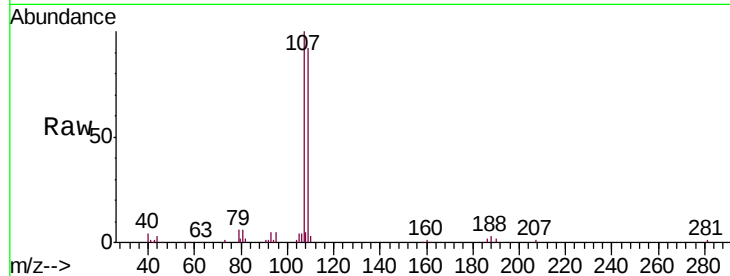




#50
1,2-Dibromoethane
Concen: 9.362 ug/L
RT: 8.59 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

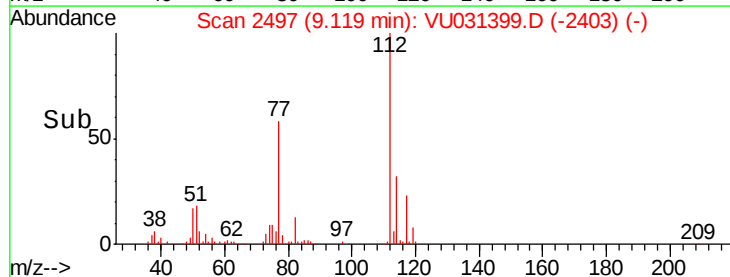
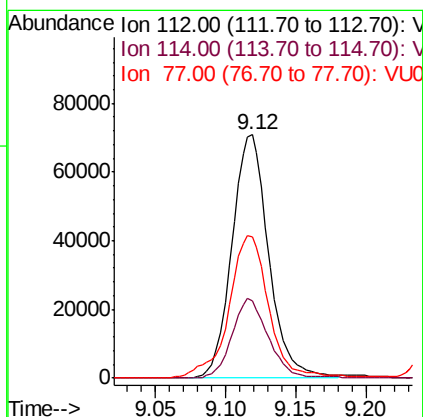
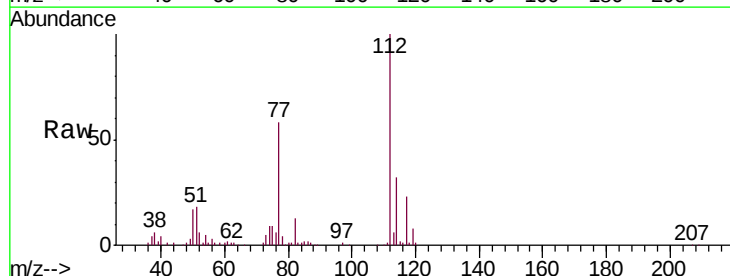
Instrument :
MSVOA_U
ClientSampleId :
VSTD01049

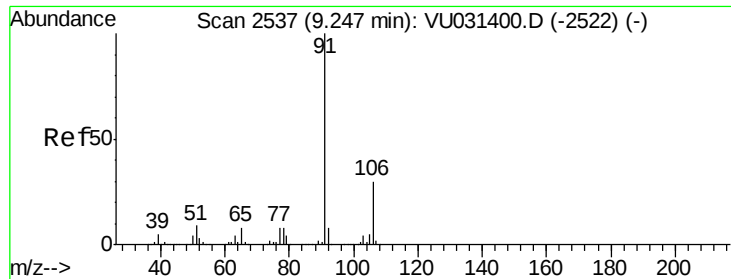
Tgt Ion:107 Resp: 51346
Ion Ratio Lower Upper
107 100
109 91.8 66.6 123.8
188 3.1 2.6 4.0



#51
Chlorobenzene
Concen: 9.543 ug/L
RT: 9.12 min Scan# 2497
Delta R.T. 0.00 min
Lab File: VU031399.D
Acq: 22 Apr 2019 17:50

Tgt Ion:112 Resp: 129182
Ion Ratio Lower Upper
112 100
114 31.6 23.0 42.8
77 58.2 47.1 70.7





#52

Ethylbenzene

Concen: 9.335 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

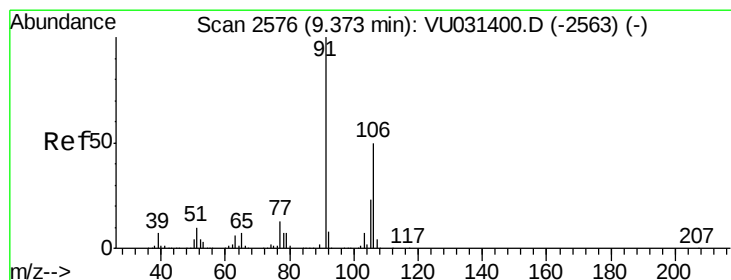
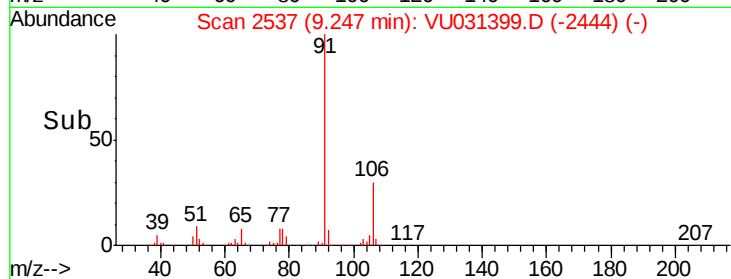
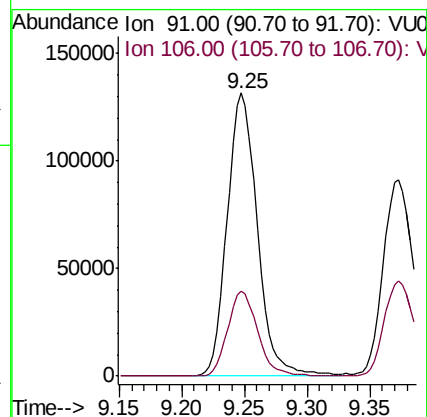
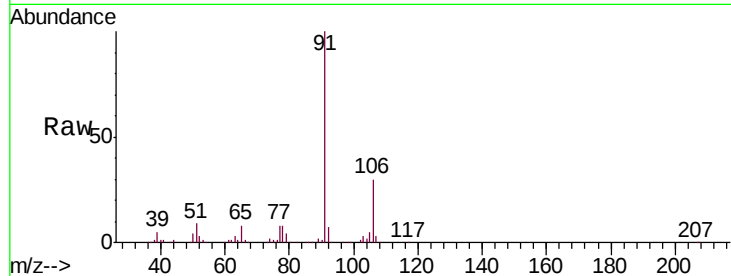
VSTD01049

Tgt Ion: 91 Resp: 220135

Ion Ratio Lower Upper

91 100

106 30.2 21.3 39.5



#53

m,p-Xylene

Concen: 9.269 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031399.D

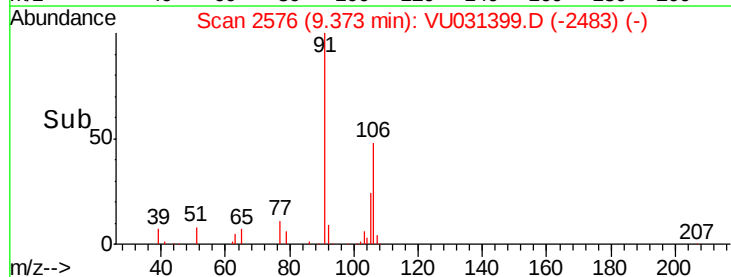
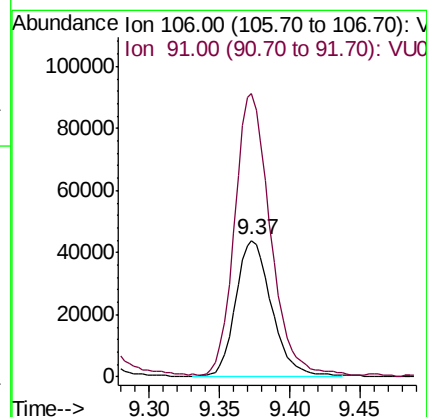
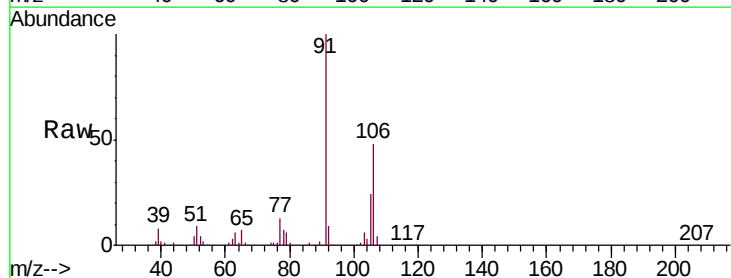
Acq: 22 Apr 2019 17:50

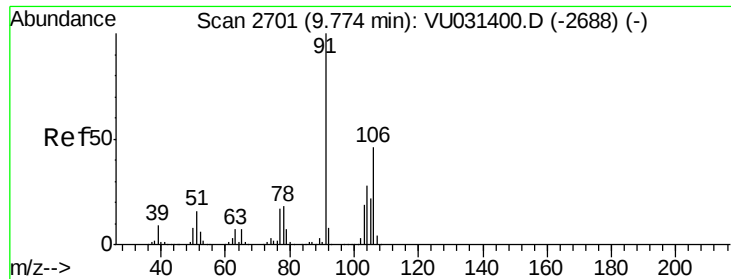
Tgt Ion: 106 Resp: 77438

Ion Ratio Lower Upper

106 100

91 207.3 141.5 262.7





#54

o-xylene

Concen: 9.484 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

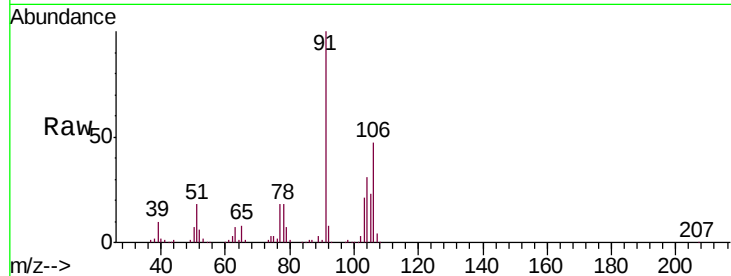
VSTD01049

Tgt Ion:106 Resp: 80347

Ion Ratio Lower Upper

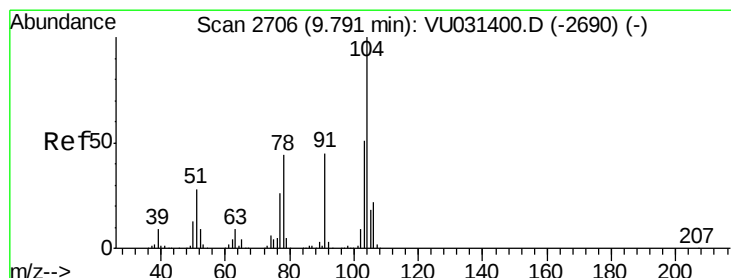
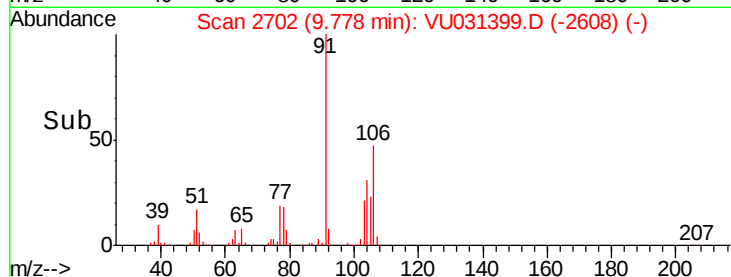
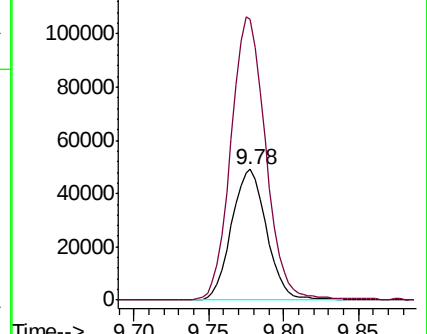
106 100

91 214.3 152.4 283.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 8.892 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU031399.D

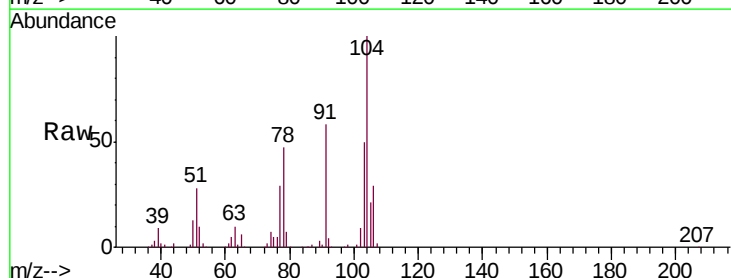
Acq: 22 Apr 2019 17:50

Tgt Ion:104 Resp: 126182

Ion Ratio Lower Upper

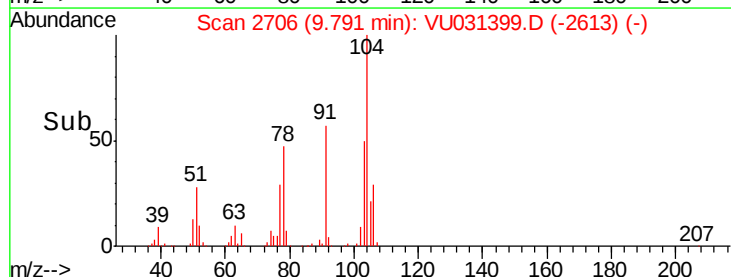
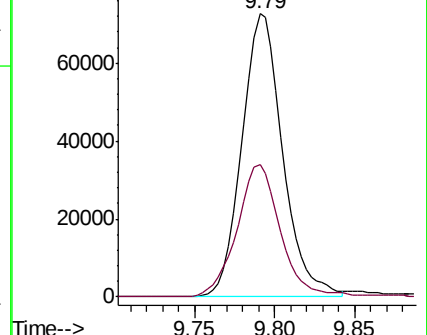
104 100

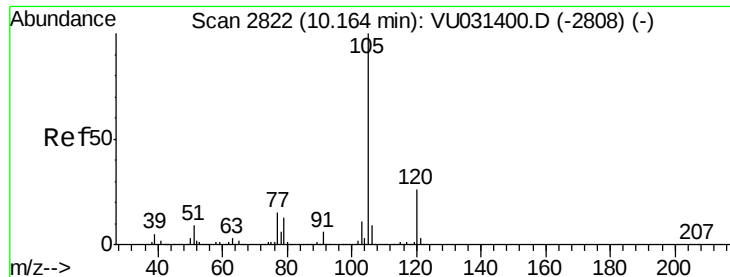
78 46.8 31.1 57.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 9.322 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

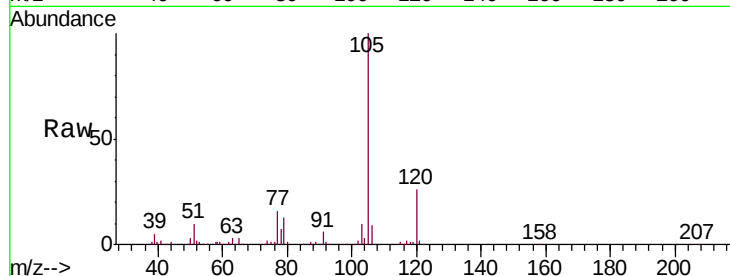
Tgt Ion: 105 Resp: 202366

Ion Ratio Lower Upper

105 100

120 26.3 20.7 31.1

77 16.0 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

150000

100000

50000

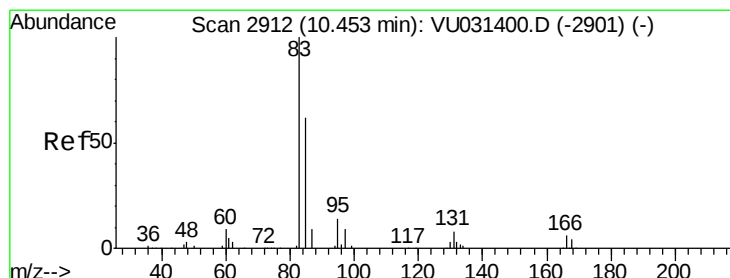
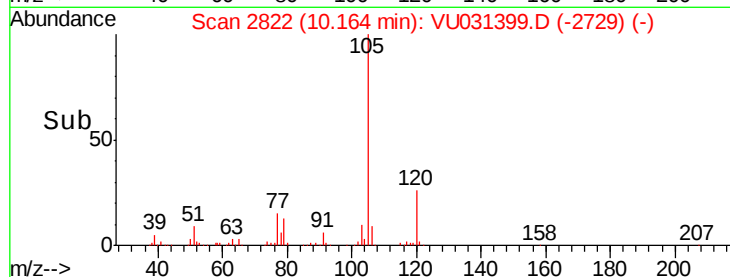
0

10.10

10.16

10.20

Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 9.614 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

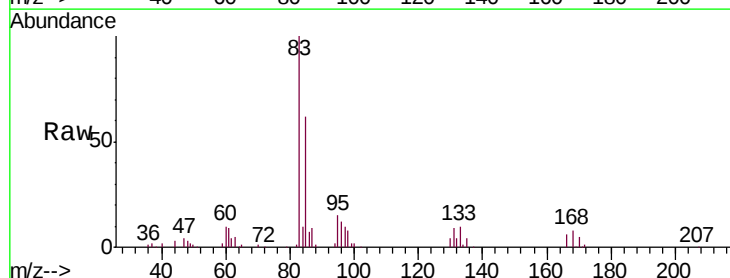
Tgt Ion: 83 Resp: 85790

Ion Ratio Lower Upper

83 100

85 62.2 44.5 82.7

131 9.2 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

60000

40000

20000

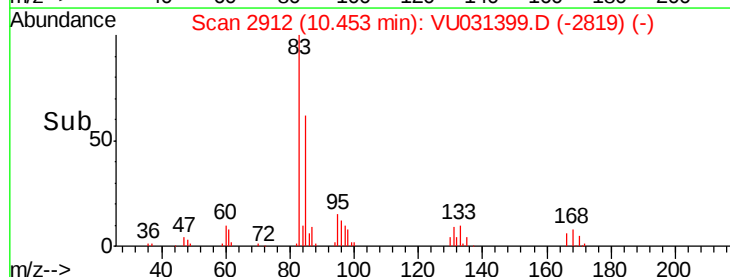
0

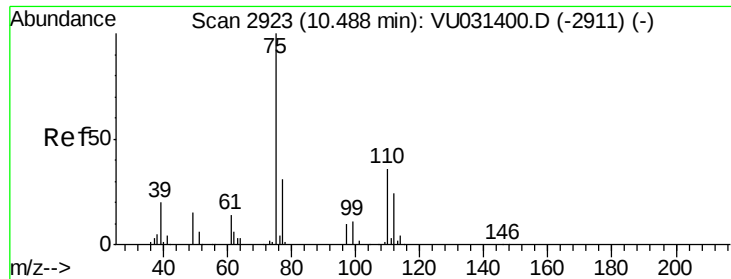
10.40

10.45

10.50

Time-->

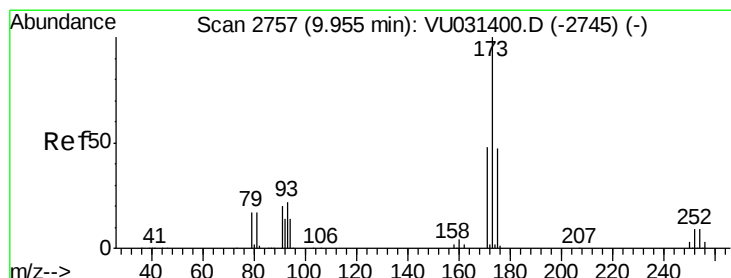
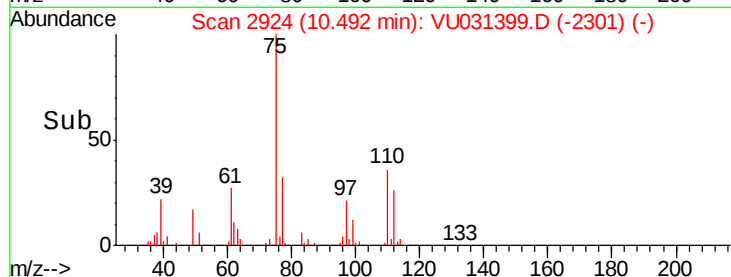
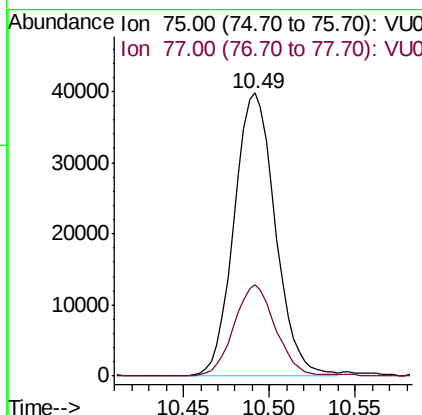
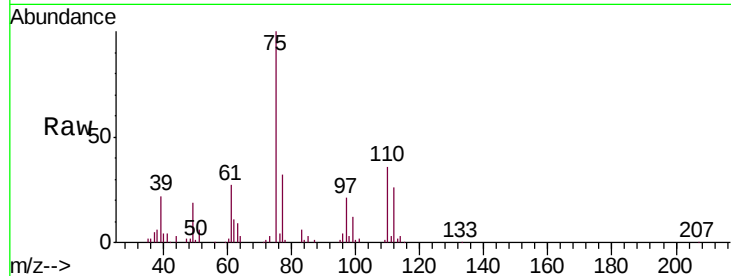




#59
 1,2,3-Trichloropropane
 Concen: 9.697 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

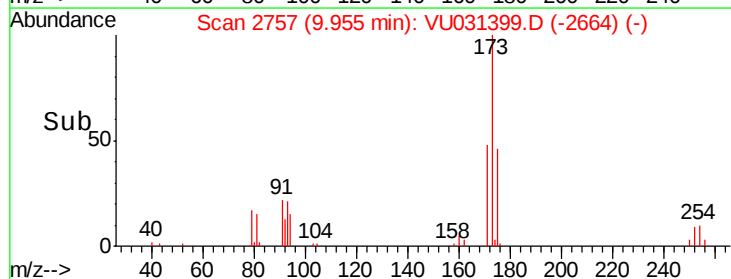
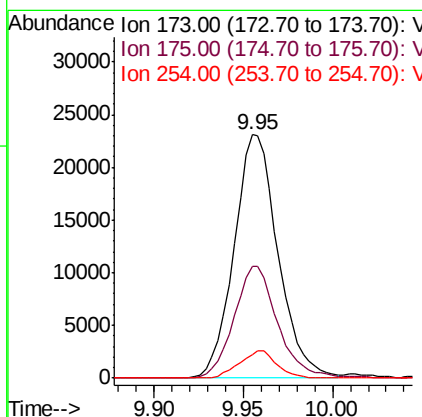
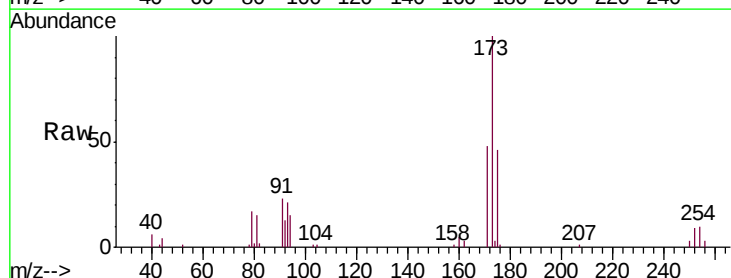
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01049

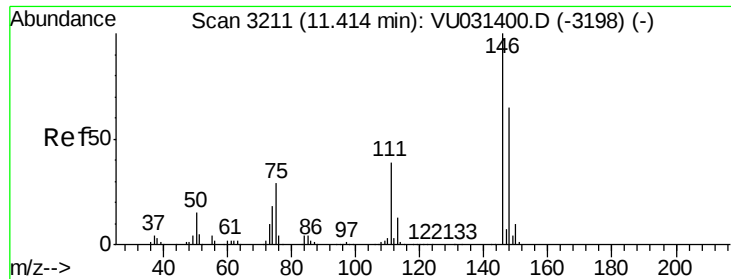
Tgt Ion: 75 Resp: 66629
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.6 38.4



#61
 Bromoform
 Concen: 10.028 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Tgt Ion: 173 Resp: 39621
 Ion Ratio Lower Upper
 173 100
 175 45.4 38.6 57.8
 254 9.5 7.7 11.5





#62

1,3-Dichlorobenzene

Concen: 9.441 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

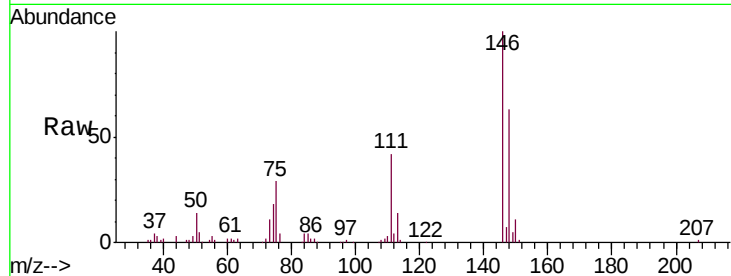
Tgt Ion:146 Resp: 89722

Ion Ratio Lower Upper

146 100

111 41.6 27.4 50.8

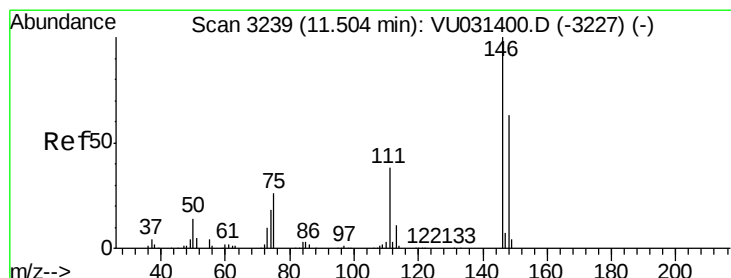
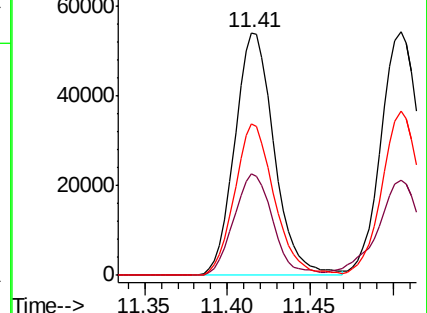
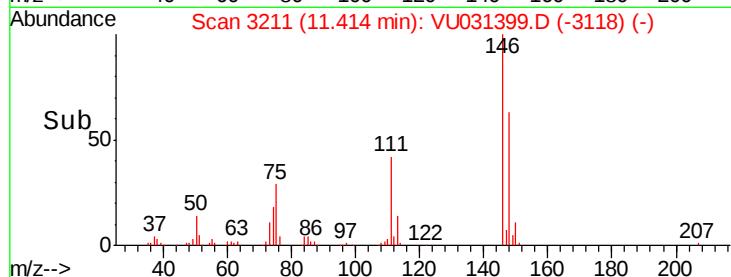
148 62.6 45.4 84.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9.517 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

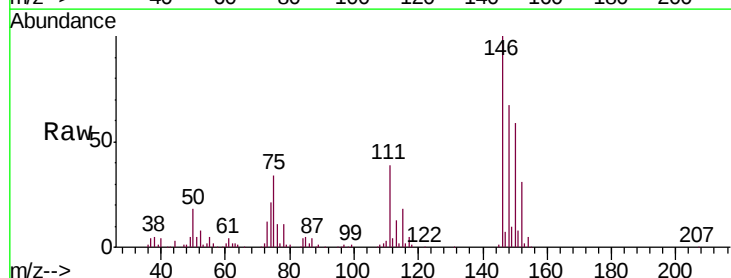
Tgt Ion:146 Resp: 90380

Ion Ratio Lower Upper

146 100

111 39.3 26.6 49.4

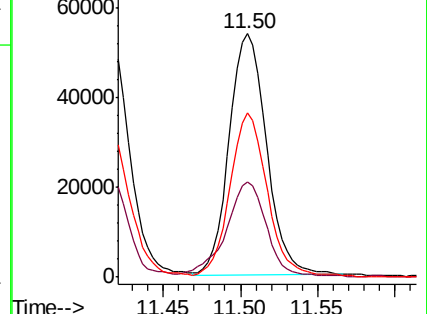
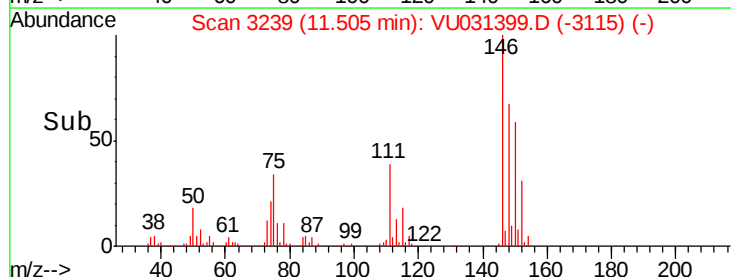
148 67.3 44.4 82.5

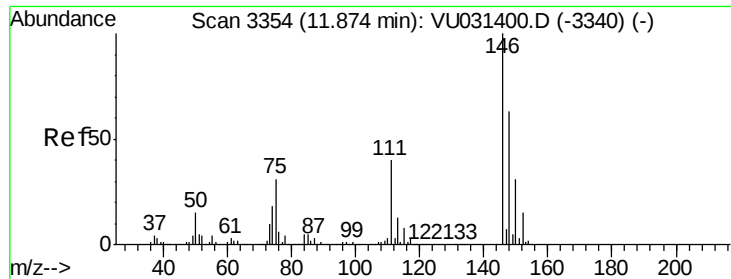


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.421 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

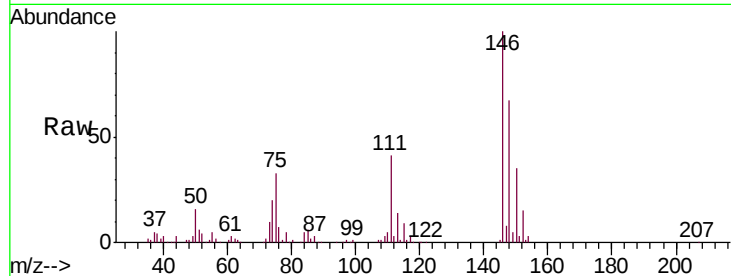
Tgt Ion:146 Resp: 93887

Ion Ratio Lower Upper

146 100

111 40.6 32.4 48.6

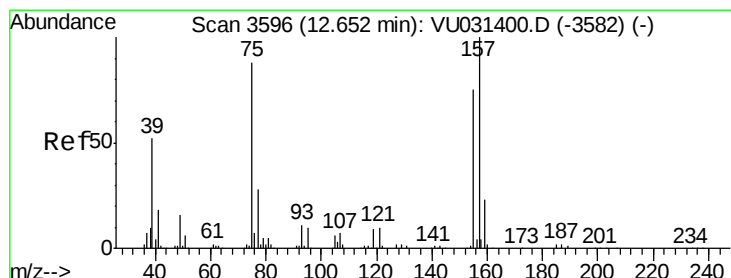
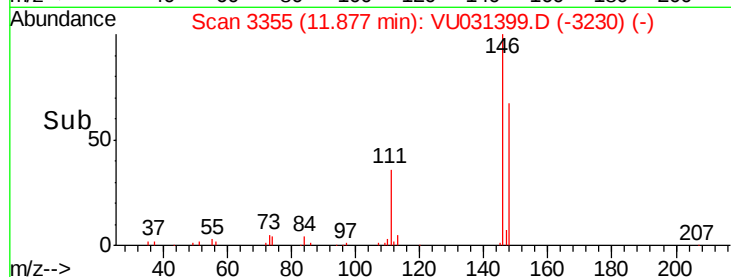
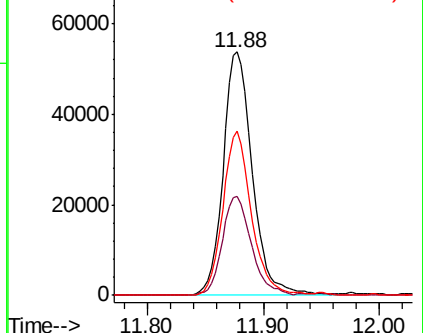
148 67.4 50.7 76.1



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: 8.627 ug/L

RT: 12.66 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

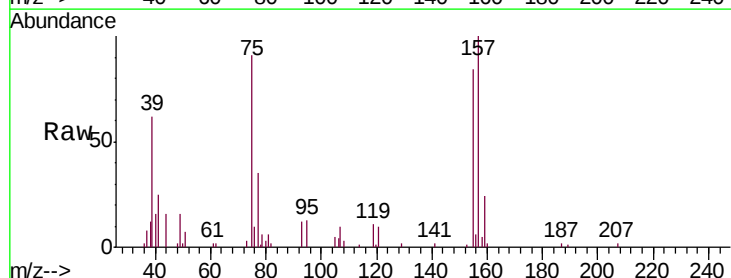
Tgt Ion: 75 Resp: 16454

Ion Ratio Lower Upper

75 100

155 91.7 68.8 103.2

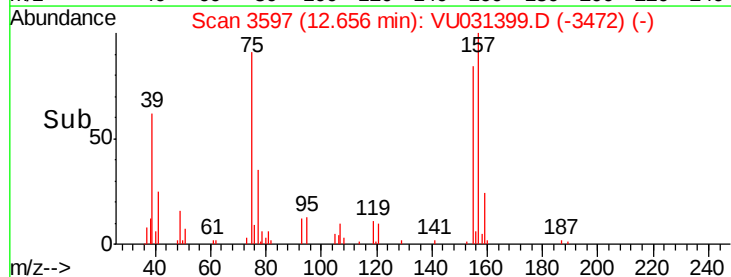
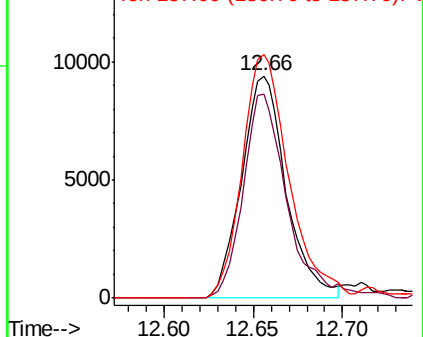
157 109.6 91.4 137.2

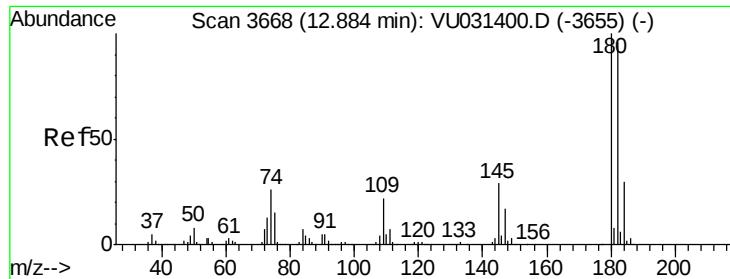


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

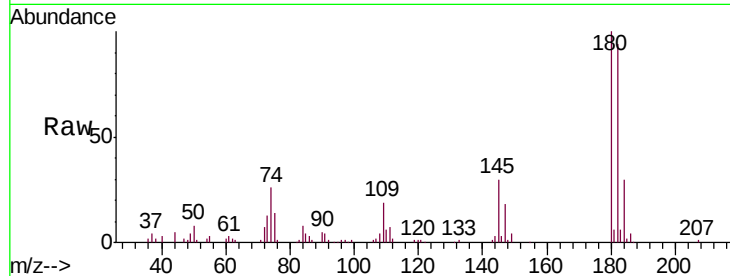




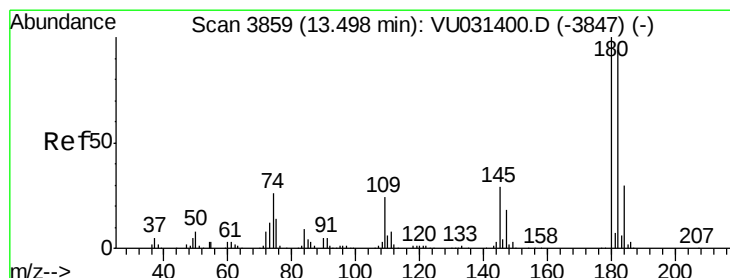
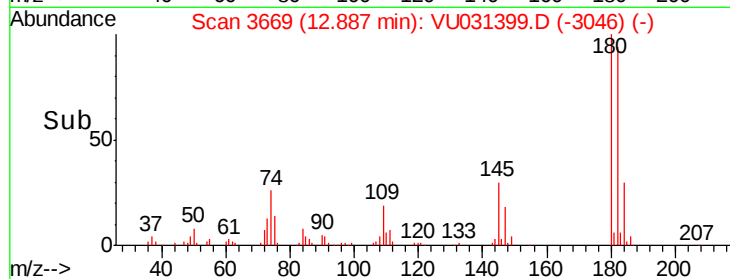
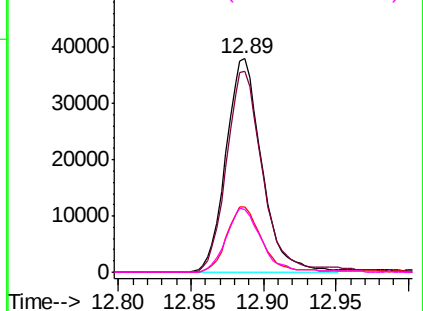
#67
 1,3,5-Trichlorobenzene
 Concen: 9.168 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01049

Tgt Ion:	180	Resp:	65099
Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.5	114.7
184	29.3	23.7	35.5
145	29.3	22.9	34.3

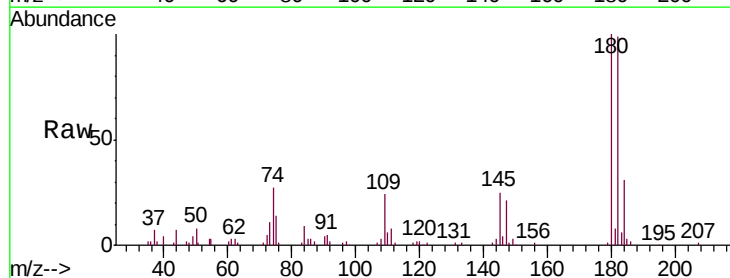


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

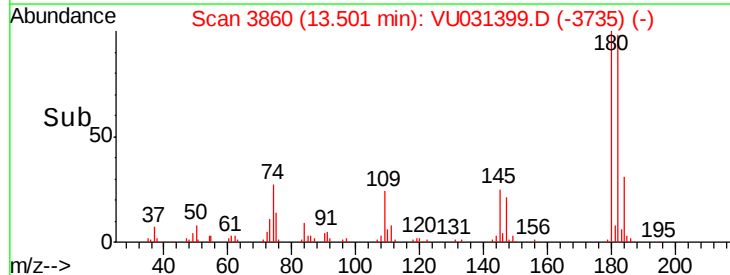
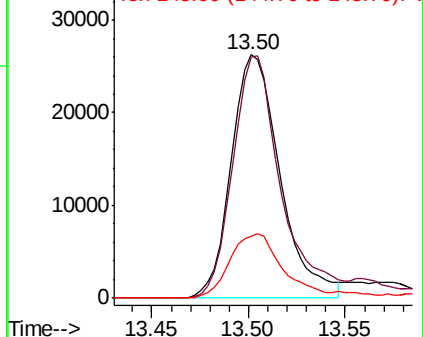


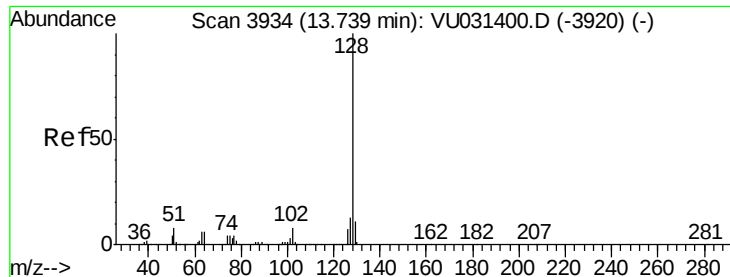
#68
 1,2,4-trichlorobenzene
 Concen: 8.067 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031399.D
 Acq: 22 Apr 2019 17:50

Tgt Ion:	180	Resp:	46172
Ion	Ratio	Lower	Upper
180	100		
182	98.6	77.5	116.3
145	28.5	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: 8.810 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD01049

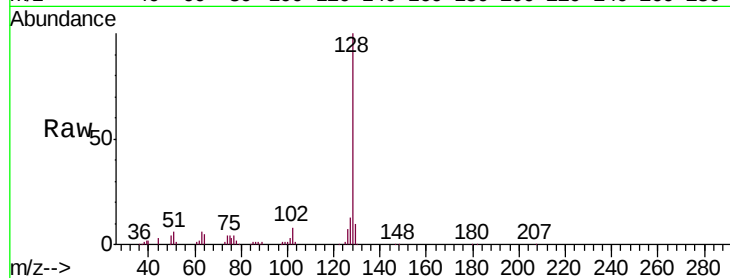
Tgt Ion:128 Resp: 160270

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.4

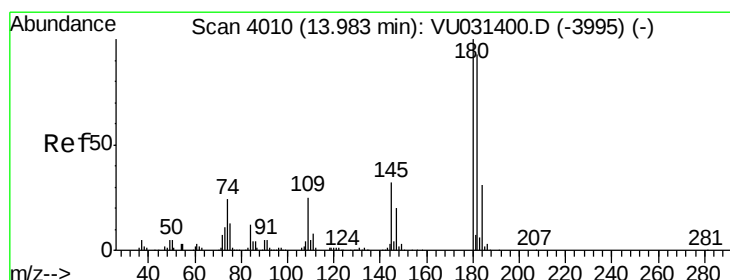
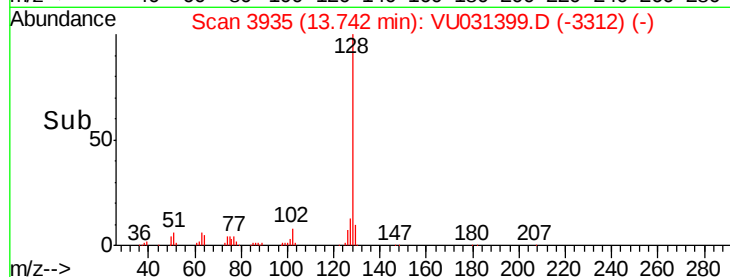
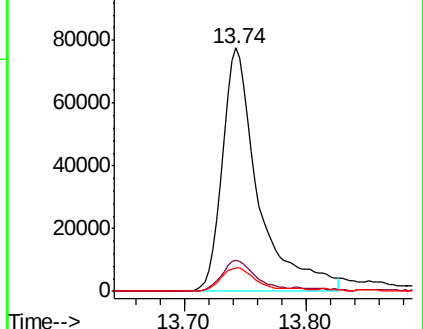
129 9.3 8.6 13.0



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: 8.460 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.00 min

Lab File: VU031399.D

Acq: 22 Apr 2019 17:50

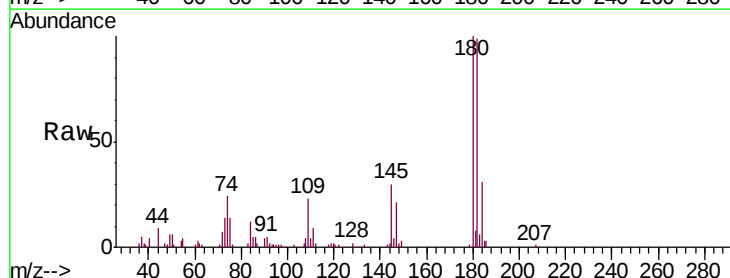
Tgt Ion:180 Resp: 52746

Ion Ratio Lower Upper

180 100

182 98.5 75.8 113.8

145 30.3 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

