

Data File : VU030356.D
Acq On : 23 Mar 2019 22:37
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

Quant Time: Mar 24 02:14:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	505775	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	488337	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	223042	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	187008	45.94	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.88%
7) Chloroethane-d5	1.67	69	150808	46.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.48%
11) 1,1-Dichloroethene-d2	2.27	63	356635	46.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.38%
21) 2-Butanone-d5	4.17	46	376075	98.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.29%
24) Chloroform-d	4.64	84	333129	47.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	5.31	65	212606	46.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.66%
32) Benzene-d6	5.34	84	691006	49.34	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.68%
36) 1,2-Dichloropropane-d6	6.32	67	238469	49.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.54%
41) Toluene-d8	7.56	98	624613	49.66	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.32%
43) trans-1,3-Dichloropropene-	7.85	79	108688	48.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.48%
47) 2-Hexanone-d5	8.31	63	268463	103.40	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.40%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	331456	48.34	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.68%
64) 1,2-Dichlorobenzene-d4	11.86	152	224000	50.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.24%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	248742	44.574	ug/L	99
3) Chloromethane	1.33	50	282818	45.315	ug/L	100
5) Vinyl chloride	1.40	62	271723	45.912	ug/L	99
6) Bromomethane	1.61	94	125836	46.348	ug/L	99
8) Chloroethane	1.69	64	158402	47.409	ug/L	97
9) Trichlorofluoromethane	1.88	101	294624	45.650	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	169636	45.955	ug/L	98
12) 1,1-Dichloroethene	2.28	96	171947	47.516	ug/L	96
13) Acetone	2.32	43	261768	67.647	ug/L	97
14) Carbon disulfide	2.48	76	542442	45.336	ug/L	100
15) Methyl Acetate	2.61	43	275150	46.437	ug/L #	100
16) Methylene chloride	2.70	84	203703	47.751	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	177633	46.789	ug/L	97
18) Methyl tert-butyl Ether	3.00	73	613443	48.861	ug/L	98
19) 1,1-Dichloroethane	3.44	63	360487	46.282	ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	203571	47.812	ug/L	98
22) 2-Butanone	4.26	43	412304	88.151	ug/L	98

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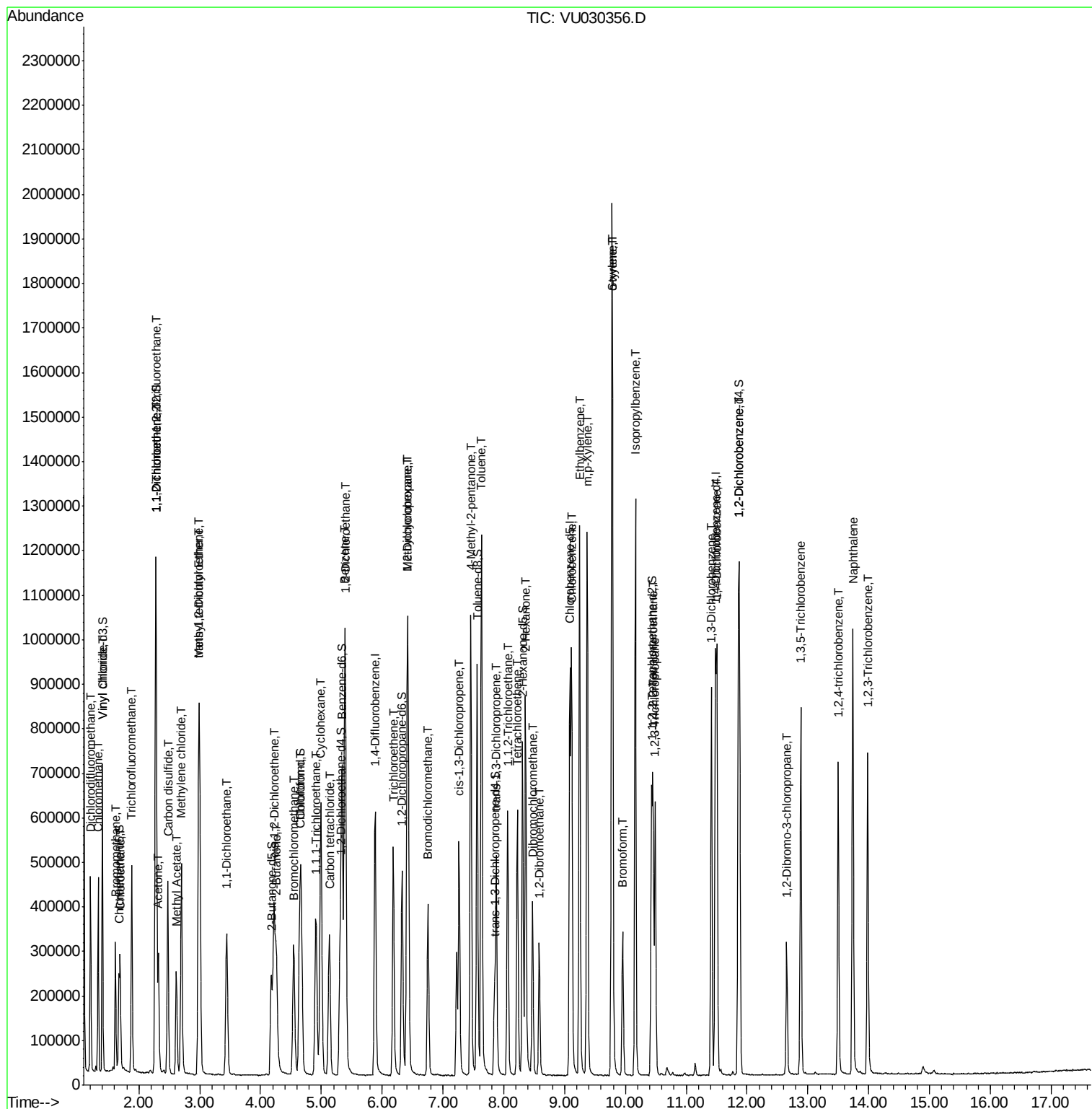
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	96779	48.904	ug/L	92
25) Chloroform	4.67	83	339397	45.830	ug/L	98
27) 1,2-Dichloroethane	5.40	62	266447	45.852	ug/L	100
29) Cyclohexane	4.99	56	362074	48.995	ug/L	98
30) 1,1,1-Trichloroethane	4.91	97	280457	46.903	ug/L	97
31) Carbon tetrachloride	5.13	117	234672	46.303	ug/L	98
33) Benzene	5.39	78	813969	48.965	ug/L	100
34) Trichloroethene	6.18	95	188022	46.010	ug/L	97
35) Methylcyclohexane	6.41	83	315893	46.975	ug/L	97
37) 1,2-Dichloropropane	6.43	63	220932	46.832	ug/L	100
38) Bromodichloromethane	6.75	83	258682	46.148	ug/L	99
39) cis-1,3-Dichloropropene	7.26	75	326638	48.171	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	728368	91.918	ug/L	99
42) Toluene	7.63	91	905738	52.499	ug/L	99
44) trans-1,3-Dichloropropene	7.87	75	280869	47.075	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	187781	47.110	ug/L	98
46) Tetrachloroethene	8.22	164	134584	47.151	ug/L	97
48) 2-Hexanone	8.36	43	568728	87.571	ug/L	98
49) Dibromochloromethane	8.47	129	198949	48.035	ug/L	99
50) 1,2-Dibromoethane	8.58	107	205033	47.929	ug/L	98
51) Chlorobenzene	9.12	112	496949	47.528	ug/L	98
52) Ethylbenzene	9.25	91	899278	48.118	ug/L	98
53) m,p-Xylene	9.37	106	346668	51.373	ug/L	96
54) o-xylene	9.77	106	333177	50.601	ug/L	98
55) Styrene	9.79	104	557726	49.173	ug/L	97
56) Isopropylbenzene	10.16	105	846630	48.561	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	338991	46.144	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	264003	45.976	ug/L	100
61) Bromoform	9.95	173	147801	49.841	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	347084	47.584	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	351242	46.776	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	356733	48.368	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	75632	46.054	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	252255	46.196	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	218439	46.040	ug/L	99
69) Naphthalene	13.74	128	800113	47.426	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	231293	46.166	ug/L	99

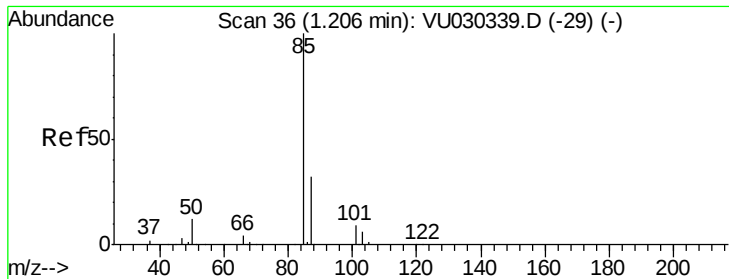
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.574 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

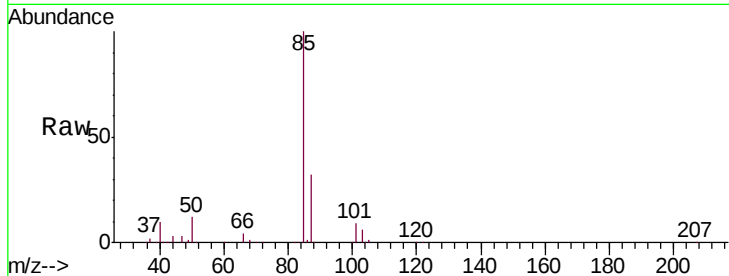
VSTD05056

Tgt Ion: 85 Resp: 248742

Ion Ratio Lower Upper

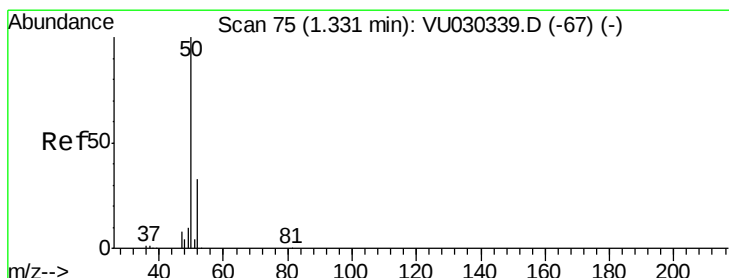
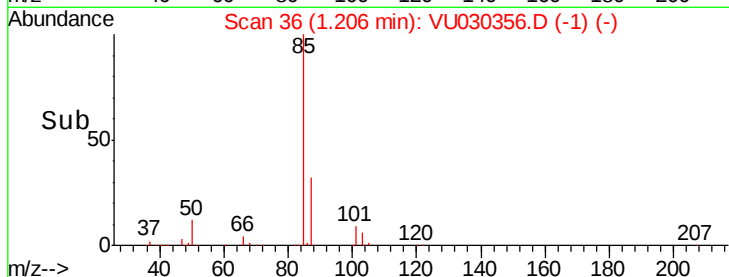
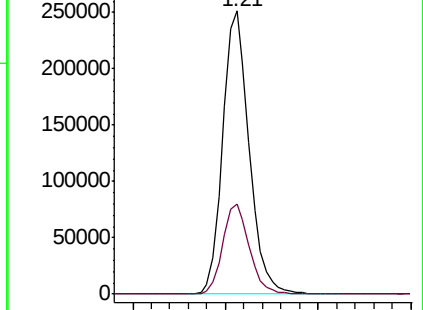
85 100

87 32.2 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU030339.D (-29) (-)

Ion 87.00 (86.70 to 87.70): VU030339.D (-29) (-)



#3

Chloromethane

Concen: 45.315 ug/L

RT: 1.33 min Scan# 74

Delta R.T. -0.00 min

Lab File: VU030356.D

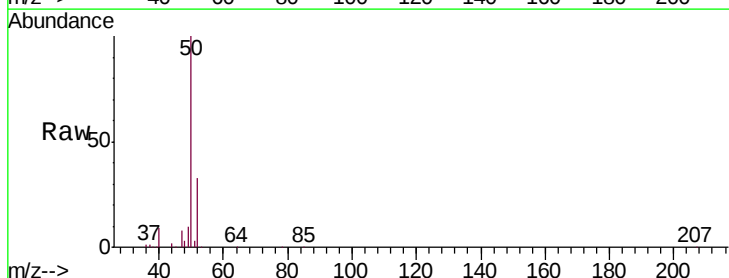
Acq: 23 Mar 2019 22:37

Tgt Ion: 50 Resp: 282818

Ion Ratio Lower Upper

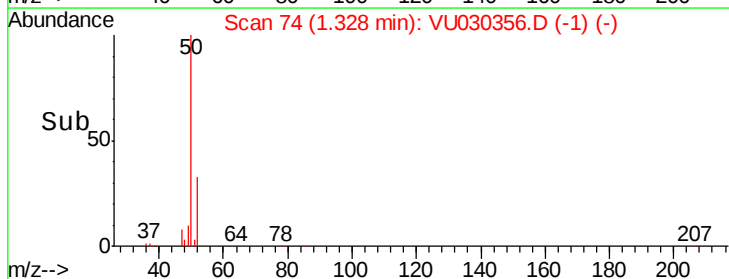
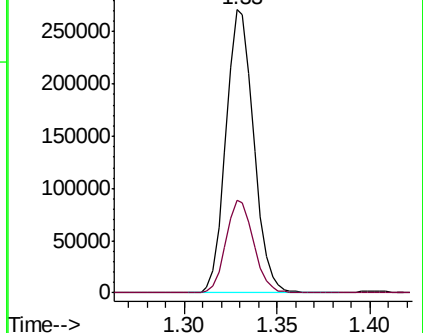
50 100

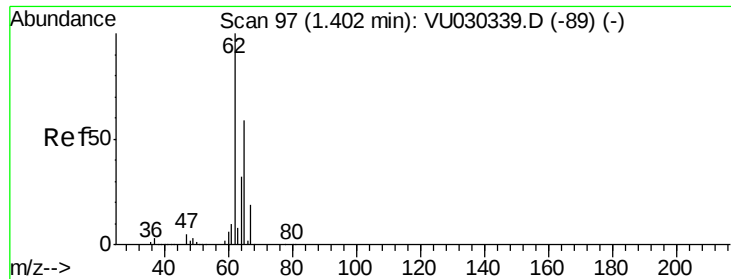
52 32.6 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU030339.D (-67) (-)

Ion 52.00 (51.70 to 52.70): VU030339.D (-67) (-)





#5

Vinyl chloride

Concen: 45.912 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

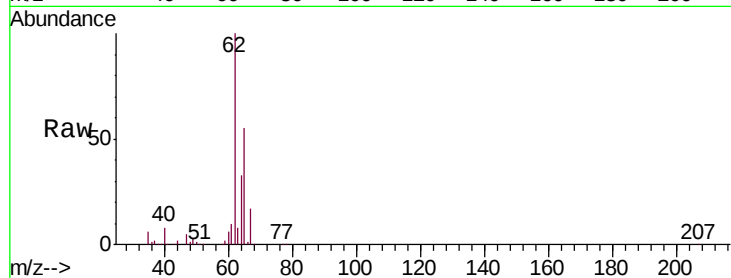
VSTD05056

Tgt Ion: 62 Resp: 271723

Ion Ratio Lower Upper

62 100

64 33.0 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) (-)

1.40

300000

250000

200000

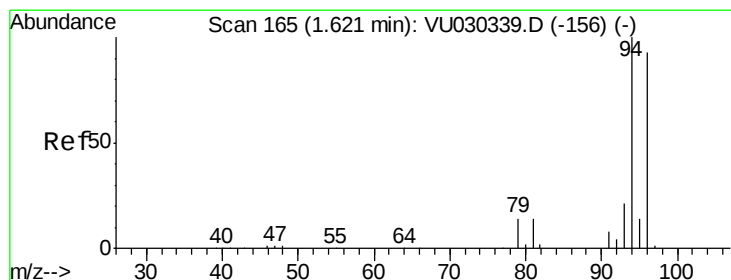
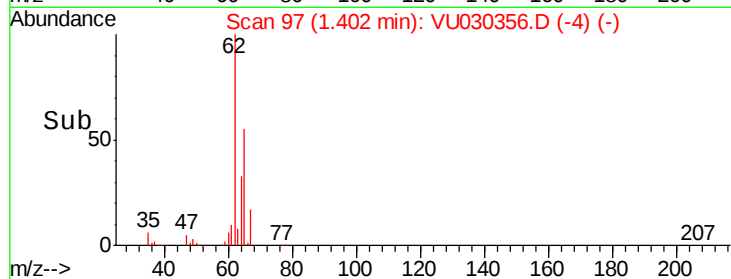
150000

100000

50000

0

Time--> 1.35 1.40 1.45



#6

Bromomethane

Concen: 46.348 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU030356.D

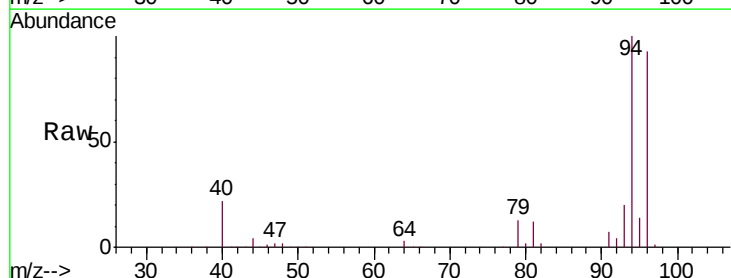
Acq: 23 Mar 2019 22:37

Tgt Ion: 94 Resp: 125836

Ion Ratio Lower Upper

94 100

96 93.2 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) (-)

1.61

120000

100000

80000

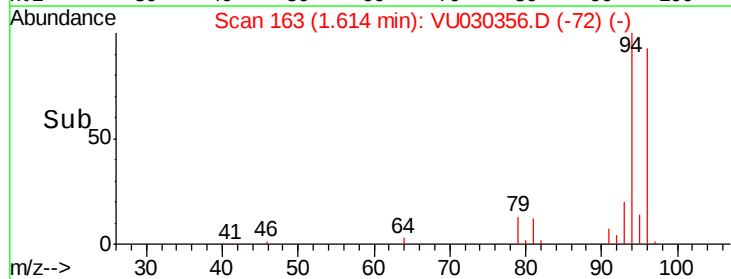
60000

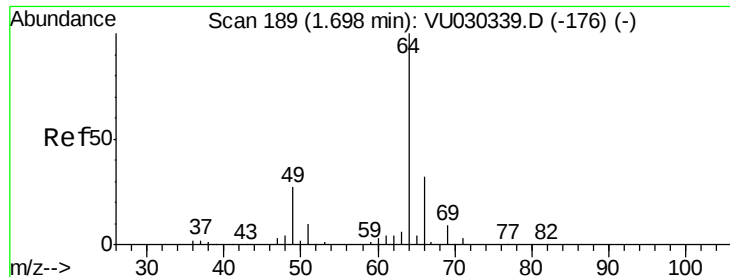
40000

20000

0

Time--> 1.60 1.65

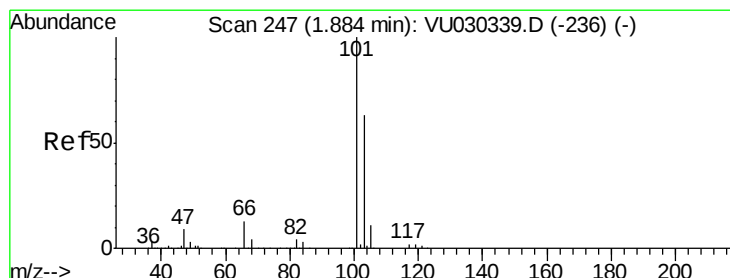
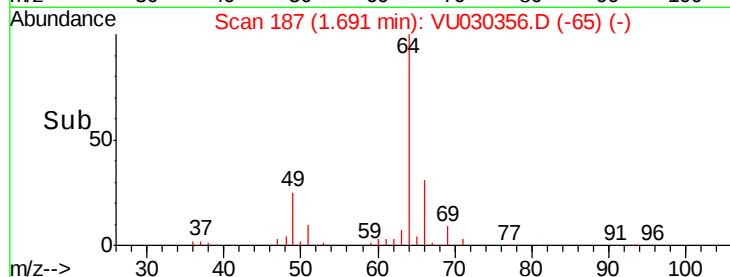
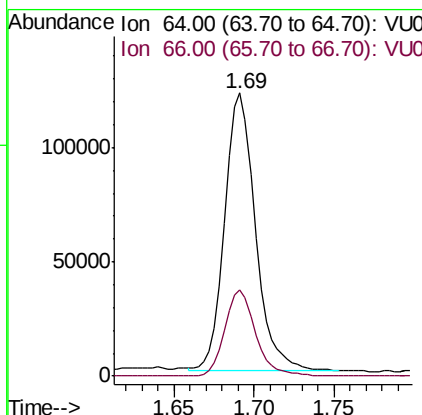
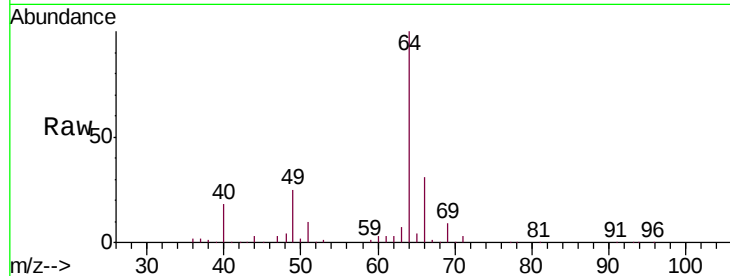




#8
Chloroethane
Concen: 47.409 ug/L
RT: 1.69 min Scan# 187
Delta R.T. -0.01 min
Lab File: VU030356.D
Acq: 23 Mar 2019 22:37

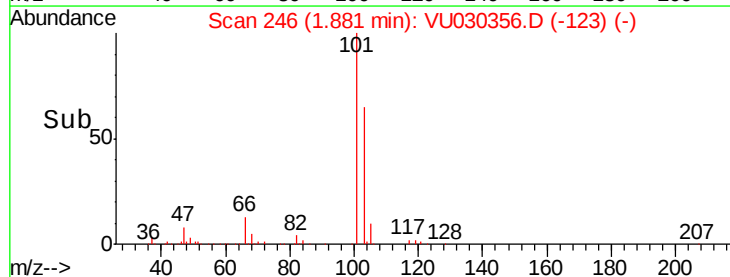
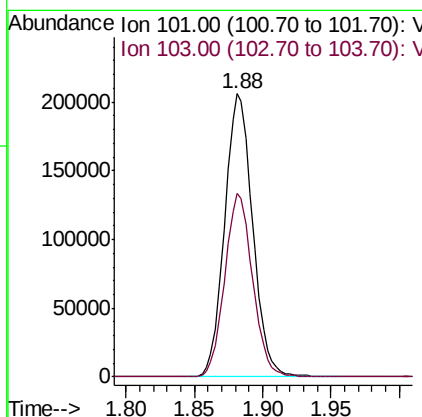
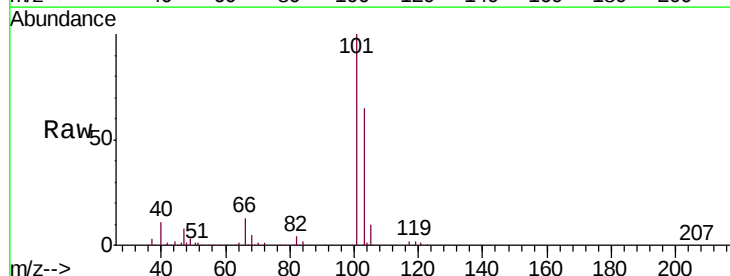
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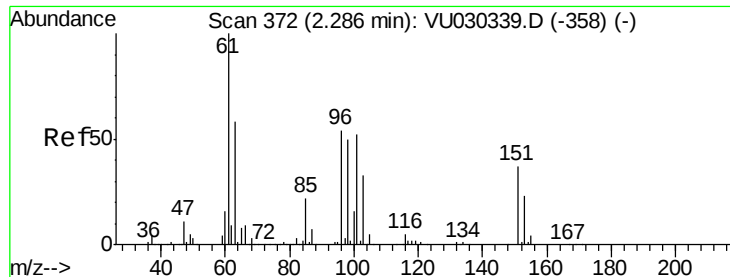
Tgt Ion: 64 Resp: 158402
Ion Ratio Lower Upper
64 100
66 30.6 22.5 41.7



#9
Trichlorofluoromethane
Concen: 45.650 ug/L
RT: 1.88 min Scan# 246
Delta R.T. -0.00 min
Lab File: VU030356.D
Acq: 23 Mar 2019 22:37

Tgt Ion: 101 Resp: 294624
Ion Ratio Lower Upper
101 100
103 64.4 51.1 76.7





#10

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

Concen: 45.955 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

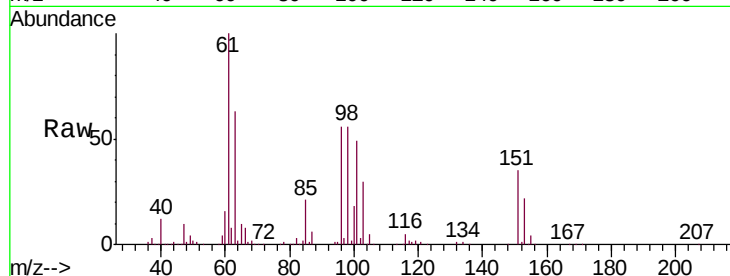
Tgt Ion:101 Resp: 169636

Ion Ratio Lower Upper

101 100

85 42.2 34.8 52.2

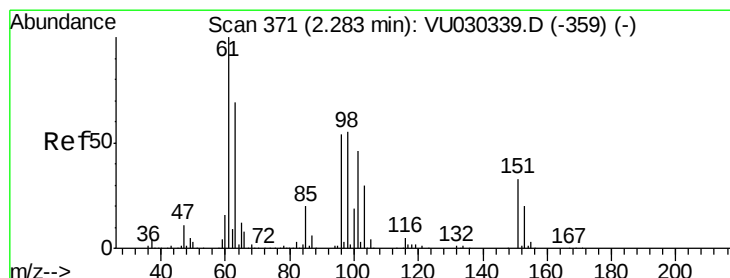
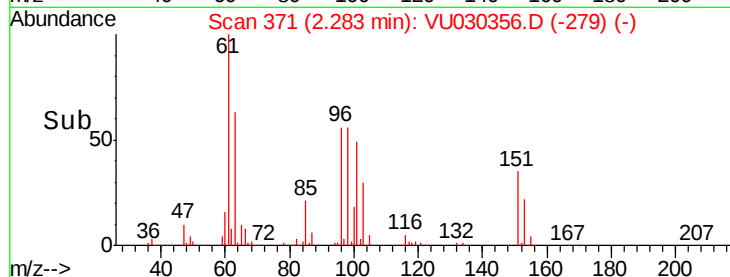
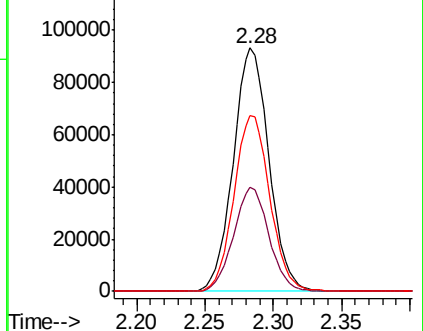
151 72.6 56.6 85.0



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: 47.516 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

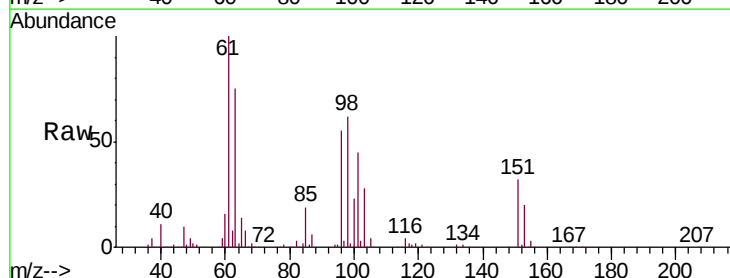
Tgt Ion: 96 Resp: 171947

Ion Ratio Lower Upper

96 100

61 181.7 131.0 243.4

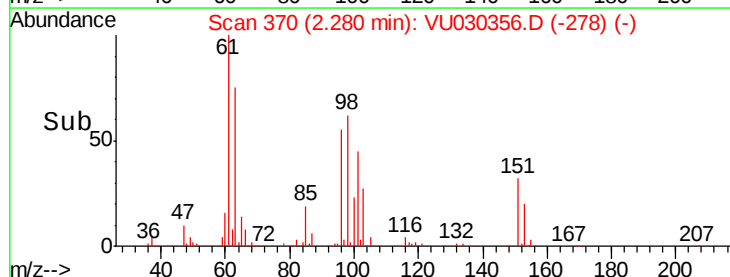
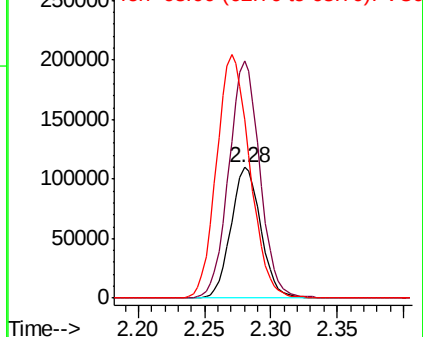
63 137.2 92.4 171.6

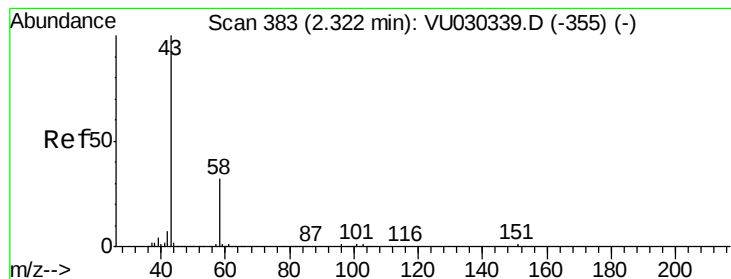


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 67.647 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

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ClientSampleId :

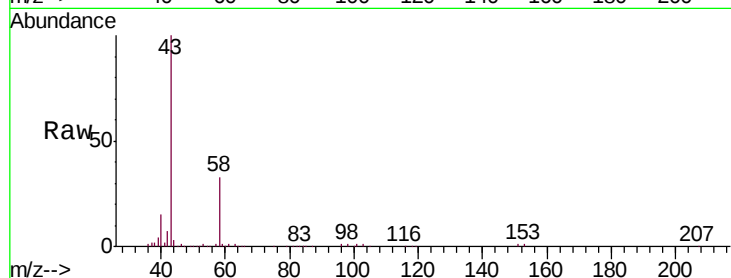
VSTD05056

Tgt Ion: 43 Resp: 261768

Ion Ratio Lower Upper

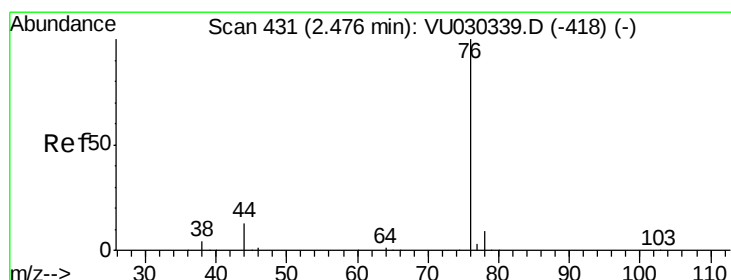
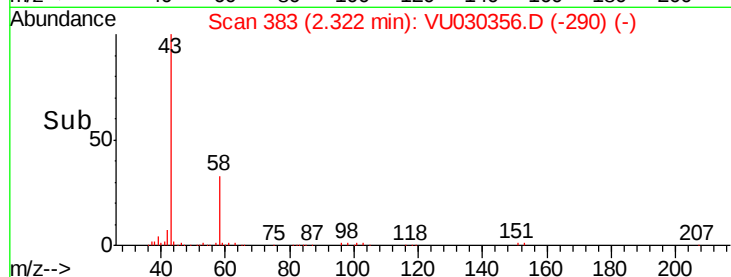
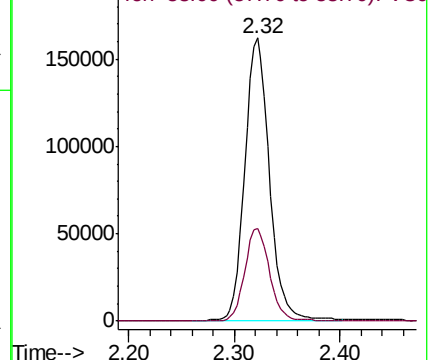
43 100

58 33.2 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-355) (-)

Ion 58.00 (57.70 to 58.70): VU030339.D (-355) (-)



#14

Carbon disulfide

Concen: 45.336 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VU030356.D

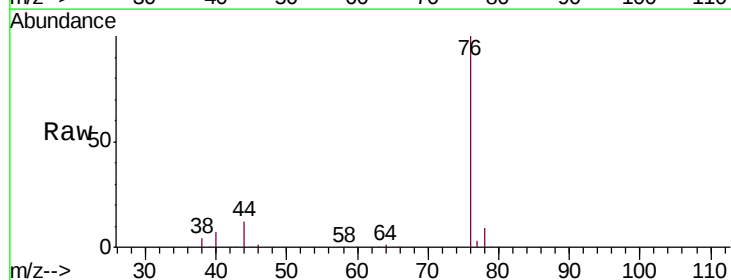
Acq: 23 Mar 2019 22:37

Tgt Ion: 76 Resp: 542442

Ion Ratio Lower Upper

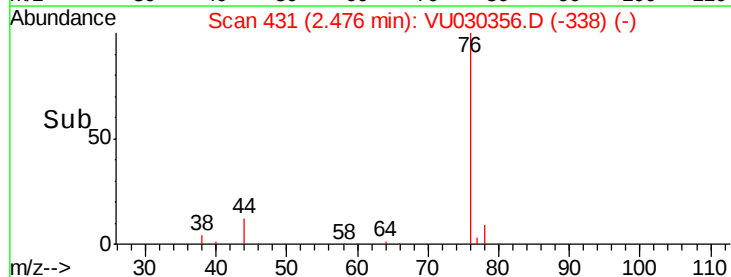
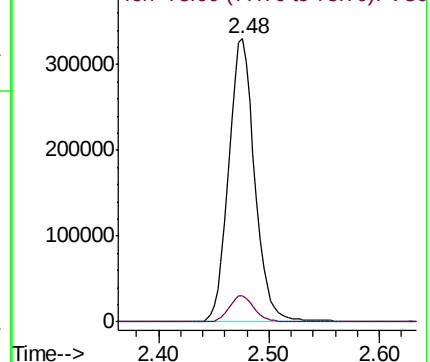
76 100

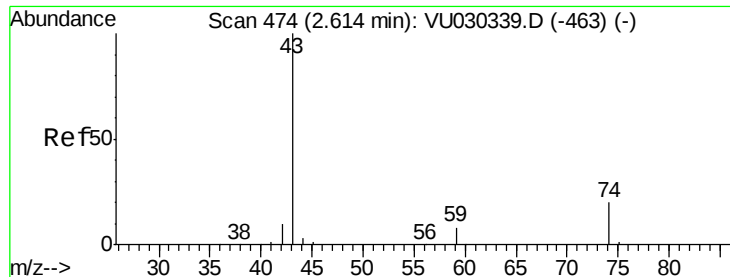
78 9.2 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030339.D (-418) (-)

Ion 78.00 (77.70 to 78.70): VU030339.D (-418) (-)





#15

Methyl Acetate

Concen: 46.437 ug/L

RT: 2.61 min Scan# 474

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

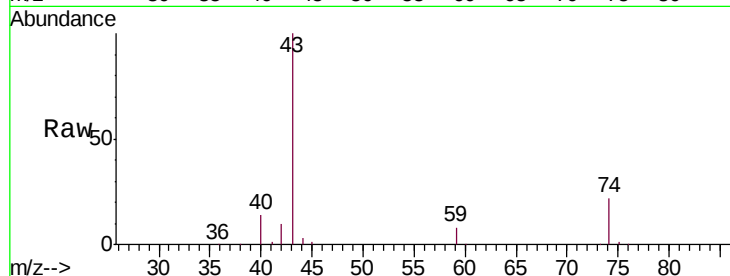
VSTD05056

Tgt Ion: 43 Resp: 275150

Ion Ratio Lower Upper

43 100

74 22.1 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VU030339.D (-463) (-)

Ion 74.00 (73.70 to 74.70): VU030339.D (-463) (-)

2.61

150000

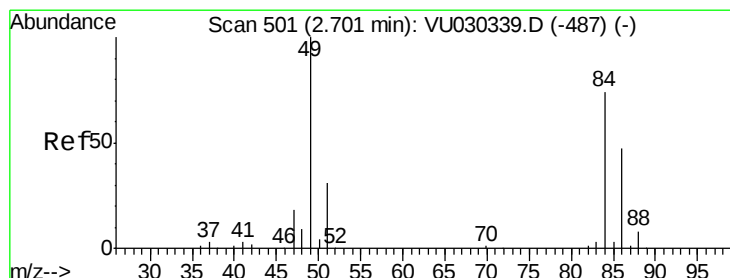
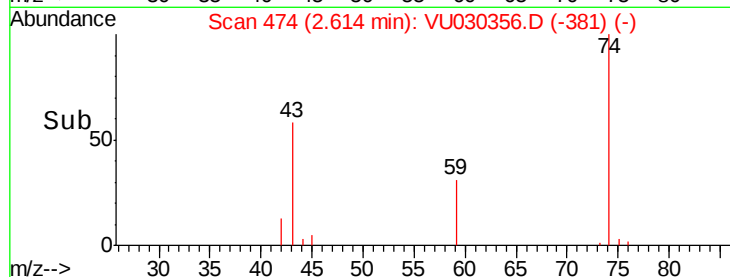
100000

50000

0

Time-->

2.55 2.60 2.65 2.70



#16

Methylene chloride

Concen: 47.751 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

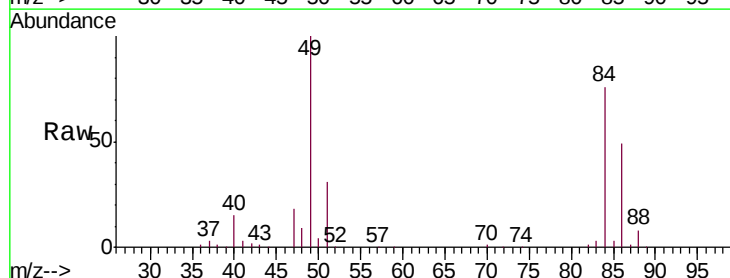
Tgt Ion: 84 Resp: 203703

Ion Ratio Lower Upper

84 100

86 64.6 44.3 82.3

49 131.4 94.9 176.3



Abundance Ion 84.00 (83.70 to 84.70): VU030339.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU030339.D (-487) (-)

Ion 49.00 (48.70 to 49.70): VU030339.D (-487) (-)

200000

150000

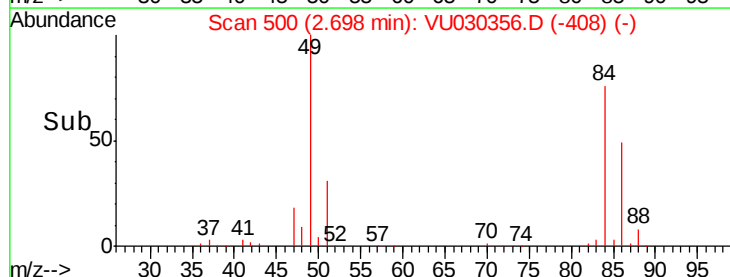
100000

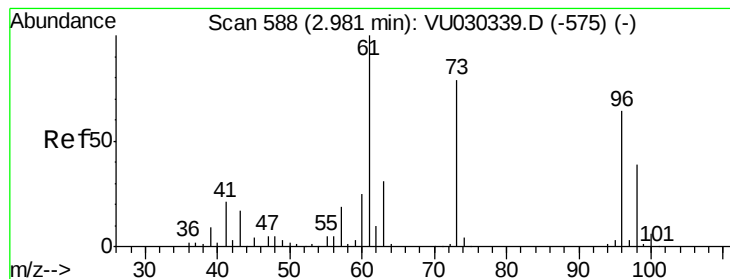
50000

0

Time-->

2.65 2.70 2.75 2.80





#17

trans-1,2-Dichloroethene

Concen: 46.789 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

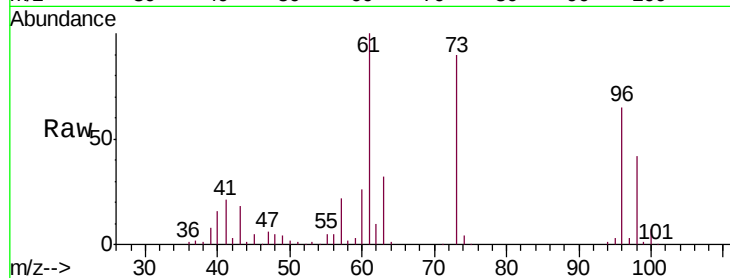
Tgt Ion: 96 Resp: 177633

Ion Ratio Lower Upper

96 100

61 153.5 108.6 201.8

98 65.1 42.3 78.5

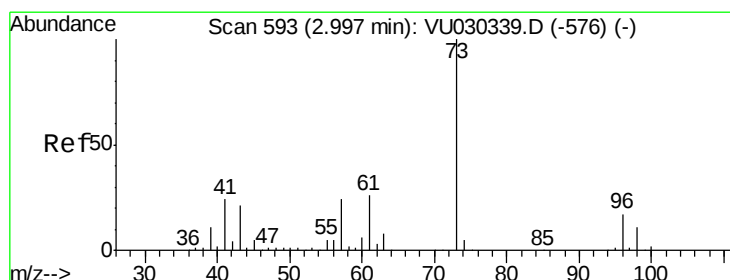
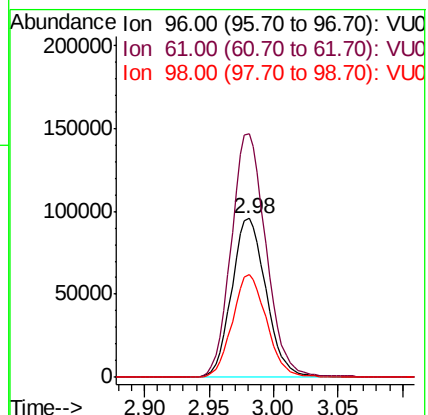
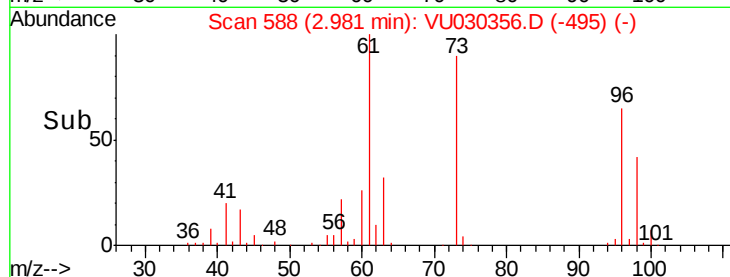


Abundance Ion 96.00 (95.70 to 96.70): VU030339.D (-575) (-)

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

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

Time-->



#18

Methyl tert-butyl Ether

Concen: 48.861 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

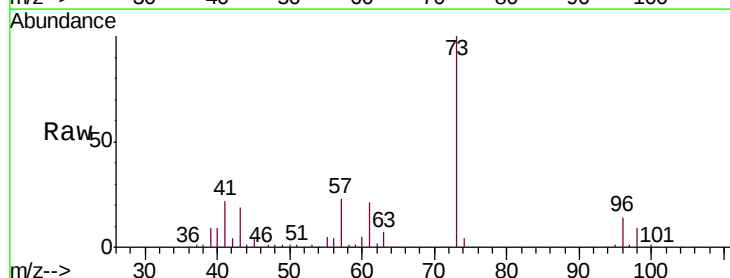
Tgt Ion: 73 Resp: 613443

Ion Ratio Lower Upper

73 100

43 19.3 16.6 24.8

57 23.8 18.9 28.3

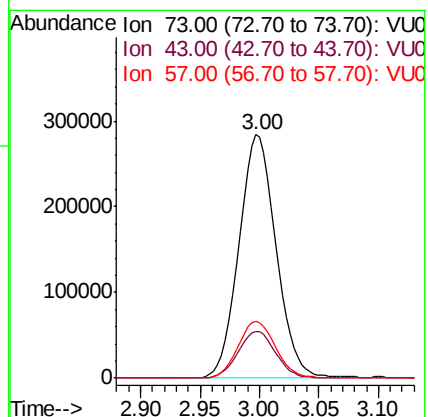
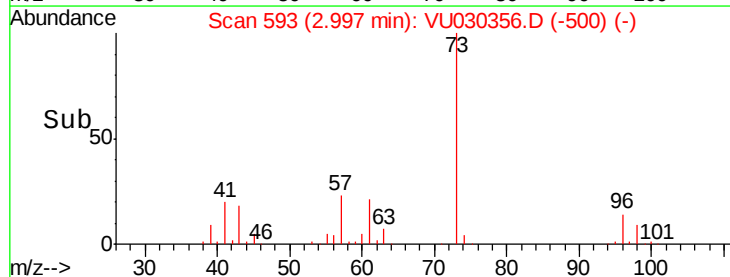


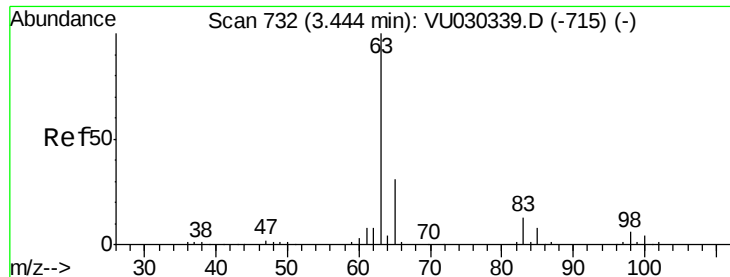
Abundance Ion 73.00 (72.70 to 73.70): VU030339.D (-576) (-)

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

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

Time-->

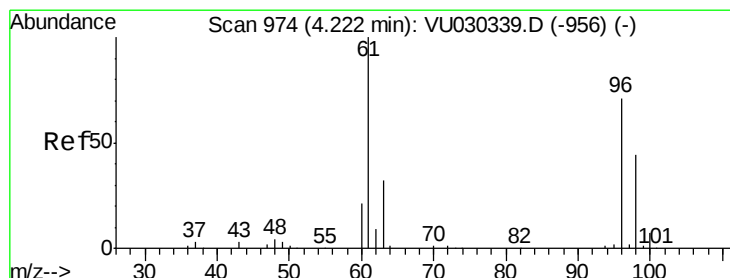
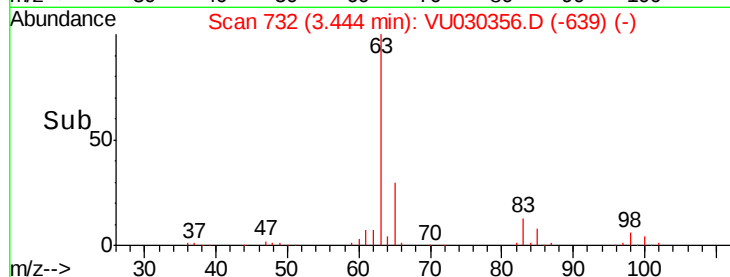
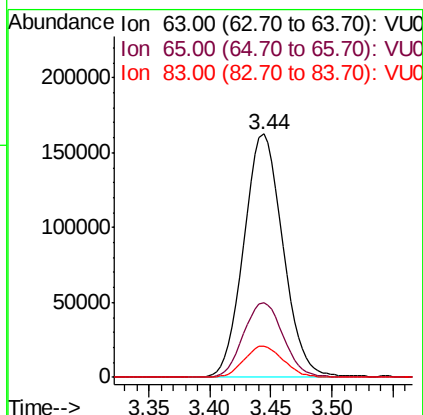
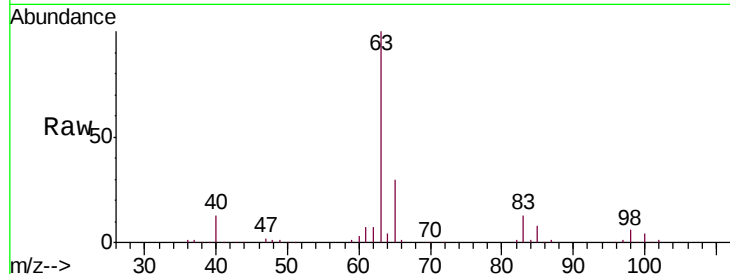




#19
 1,1-Dichloroethane
 Concen: 46.282 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

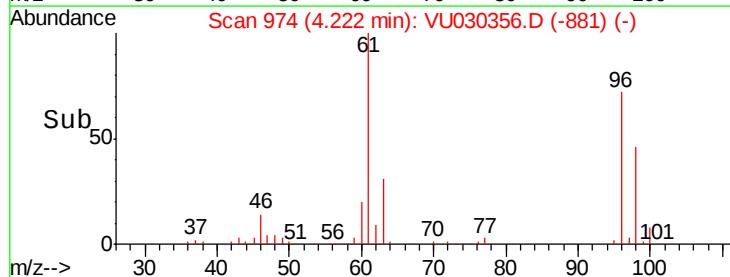
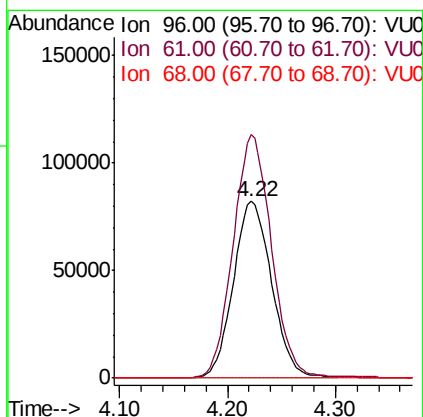
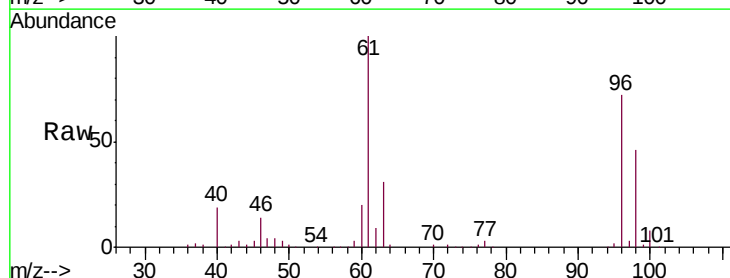
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

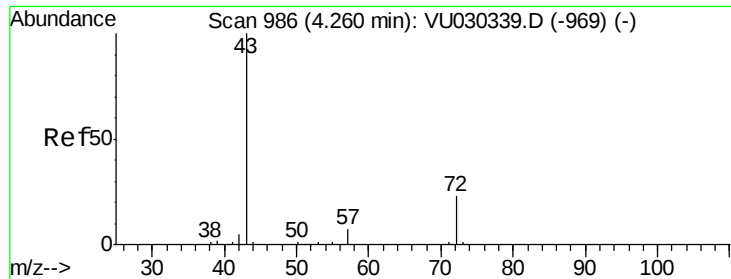
Tgt Ion: 63 Resp: 360487
 Ion Ratio Lower Upper
 63 100
 65 30.4 22.0 40.8
 83 12.9 9.1 16.9



#20
 cis-1,2-Dichloroethene
 Concen: 47.812 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion: 96 Resp: 203571
 Ion Ratio Lower Upper
 96 100
 61 138.0 98.4 182.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 88.151 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

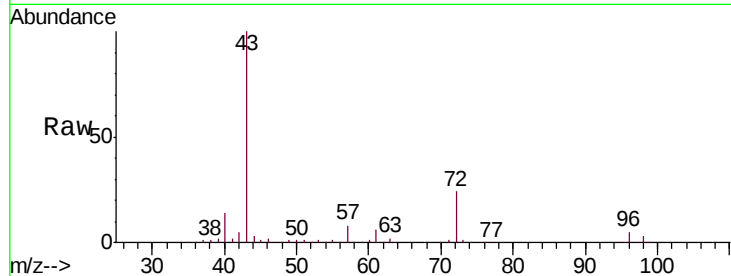
VSTD05056

Tgt Ion: 43 Resp: 412304

Ion Ratio Lower Upper

43 100

72 24.9 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

150000

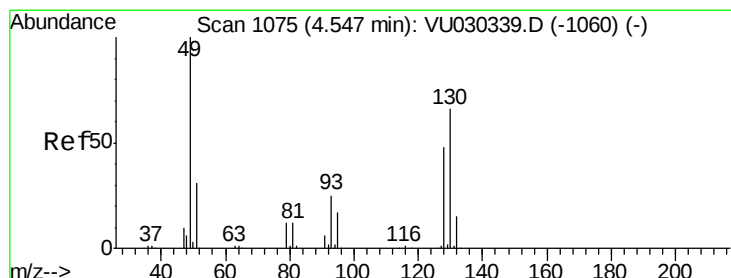
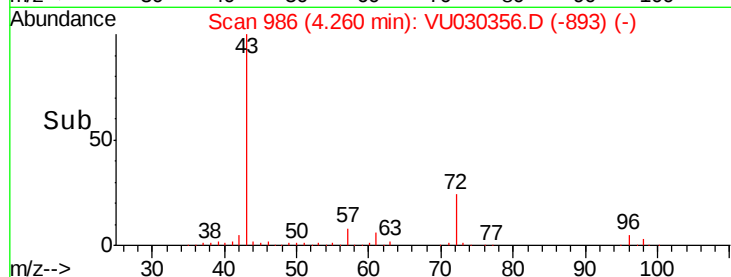
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 48.904 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Tgt Ion: 128 Resp: 96779

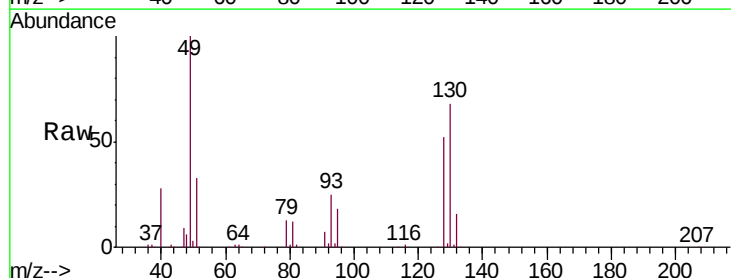
Ion Ratio Lower Upper

128 100

49 191.0 145.5 270.3

130 129.6 95.3 177.1

51 63.5 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) (-)

120000

100000

80000

60000

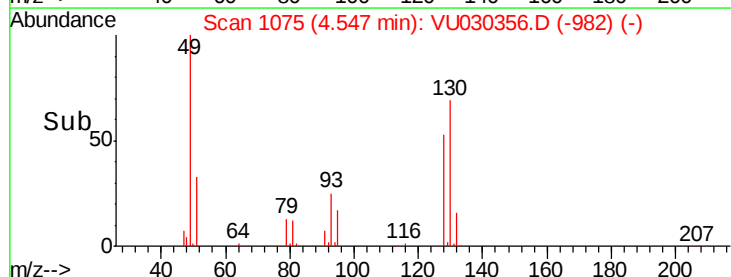
40000

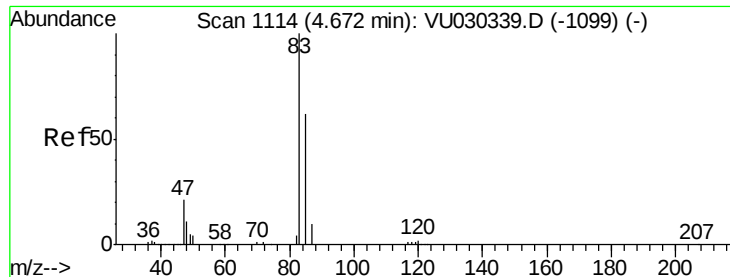
20000

0

4.45 4.50 4.55 4.60 4.65

Time-->





#25

Chloroform

Concen: 45.830 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

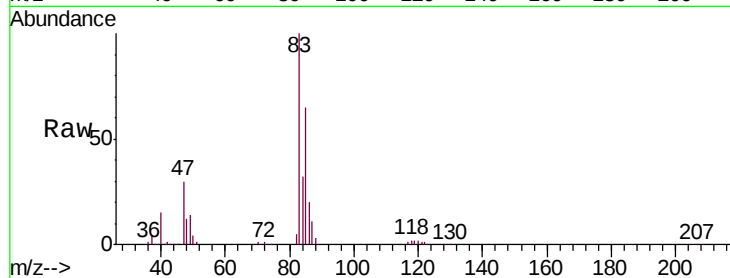
VSTD05056

Tgt Ion: 83 Resp: 339397

Ion Ratio Lower Upper

83 100

85 64.9 44.4 82.4



Abundance Ion 83.00 (82.70 to 83.70): VU030339.D (-1099) (-)

Ion 85.00 (84.70 to 85.70): VU030339.D (-1099) (-)

4.67

150000

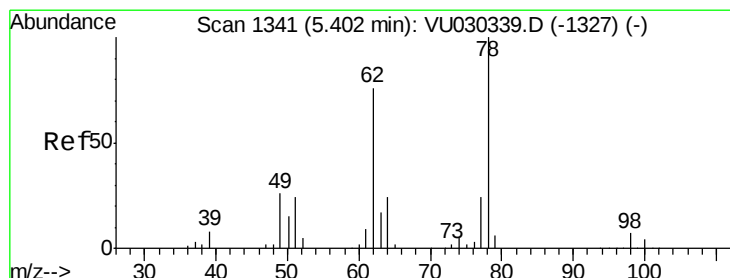
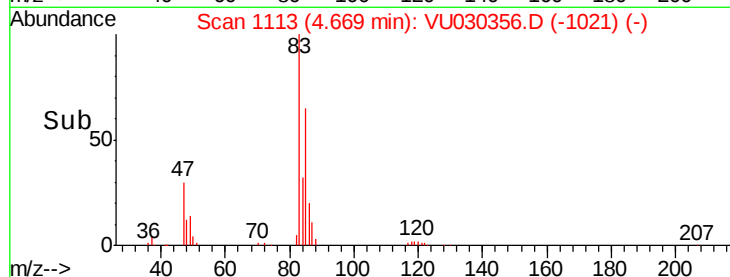
100000

50000

0

4.60 4.70 4.80

Time-->



#27

1,2-Dichloroethane

Concen: 45.852 ug/L

RT: 5.40 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VU030356.D

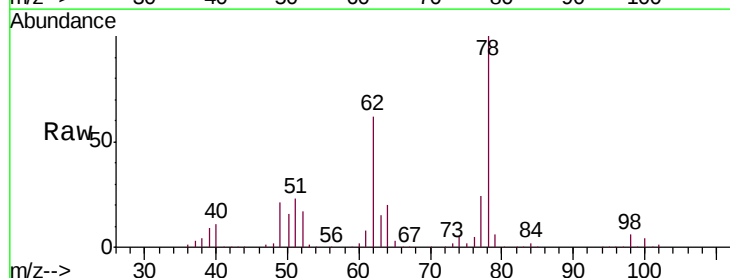
Acq: 23 Mar 2019 22:37

Tgt Ion: 62 Resp: 266447

Ion Ratio Lower Upper

62 100

98 9.2 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VU030339.D (-1327) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-1327) (-)

5.40

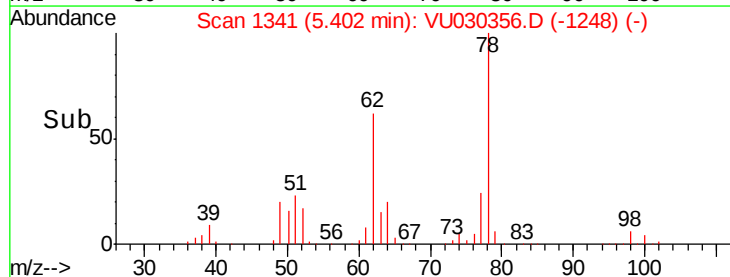
100000

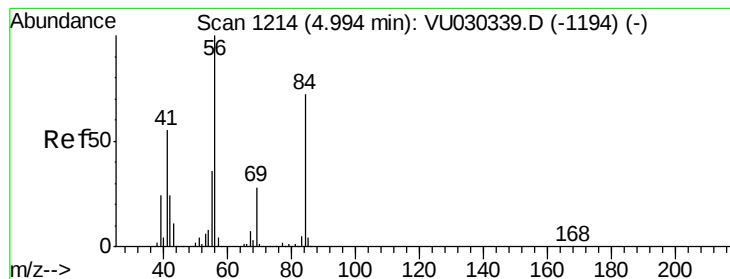
50000

0

5.30 5.40 5.50

Time-->





#29

Cyclohexane

Concen: 48.995 ug/L

RT: 4.99 min Scan# 1214

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

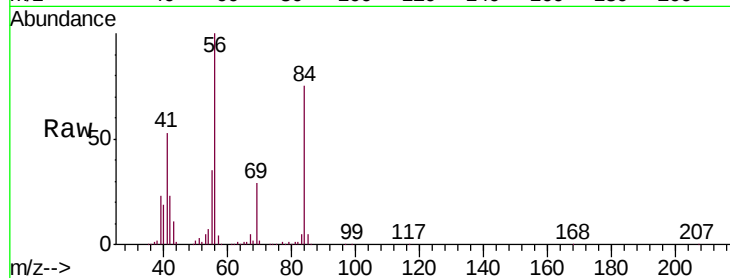
Tgt Ion: 56 Resp: 362074

Ion Ratio Lower Upper

56 100

69 28.5 22.9 34.3

84 75.8 58.9 88.3



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

200000

150000

100000

50000

0

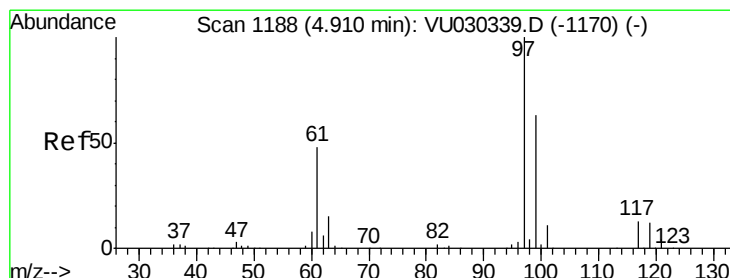
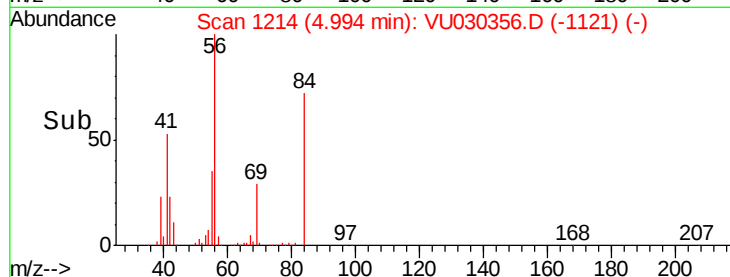
4.99

4.90

5.00

5.10

Time-->



#30

1,1,1-Trichloroethane

Concen: 46.903 ug/L

RT: 4.91 min Scan# 1188

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

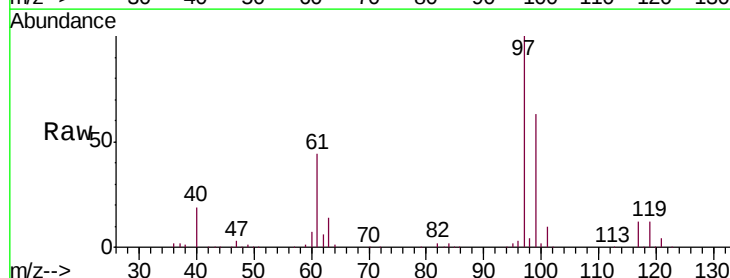
Tgt Ion: 97 Resp: 280457

Ion Ratio Lower Upper

97 100

99 63.6 51.8 77.6

61 45.0 38.2 57.4



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

150000

100000

50000

0

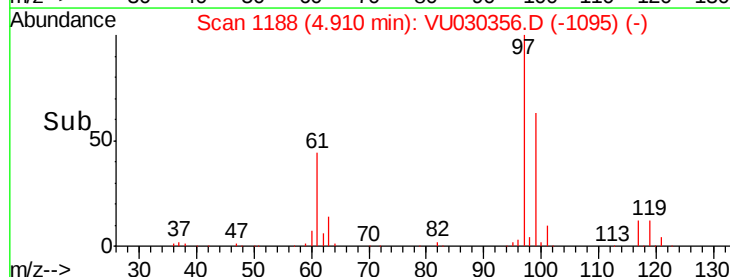
4.91

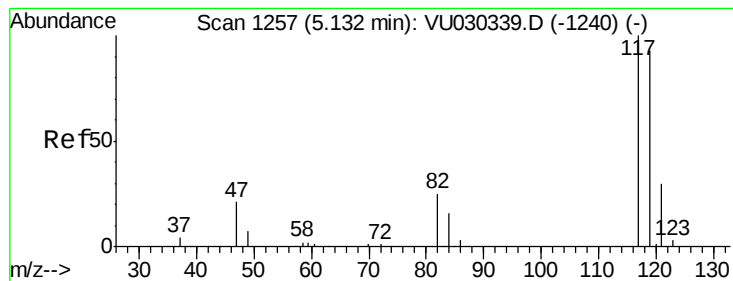
4.80

4.90

5.00

Time-->





#31

Carbon tetrachloride

Concen: 46.303 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

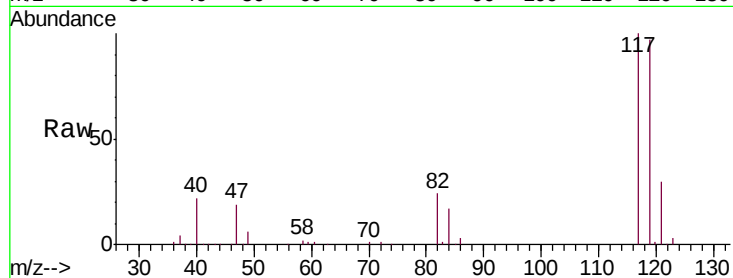
VSTD05056

Tgt Ion:117 Resp: 234672

Ion Ratio Lower Upper

117 100

119 96.3 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.13

120000

100000

80000

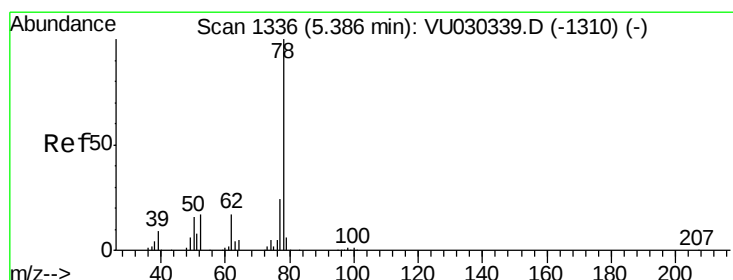
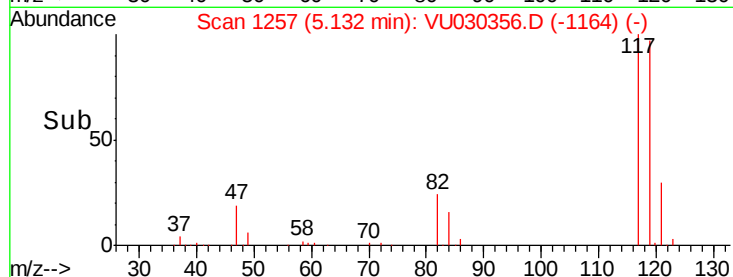
60000

40000

20000

0

Time--> 5.00 5.10 5.20



#33

Benzene

Concen: 48.965 ug/L

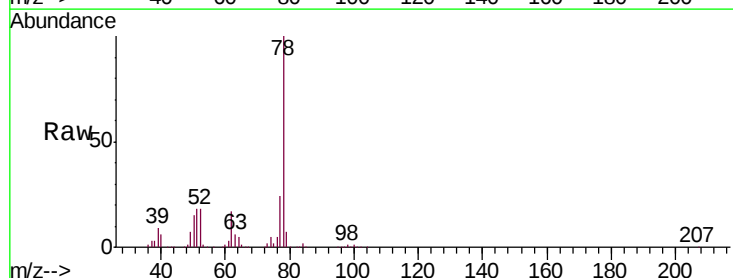
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Tgt Ion: 78 Resp: 813969



Abundance Ion 78.00 (77.70 to 78.70): VU0

5.39

400000

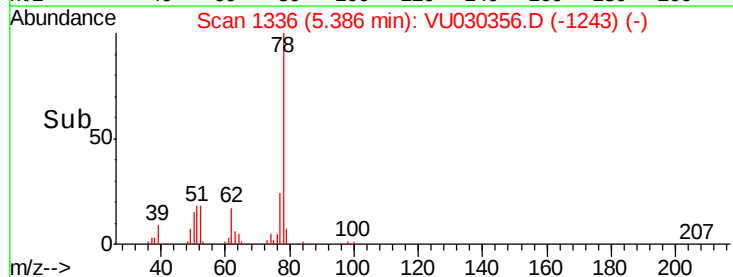
300000

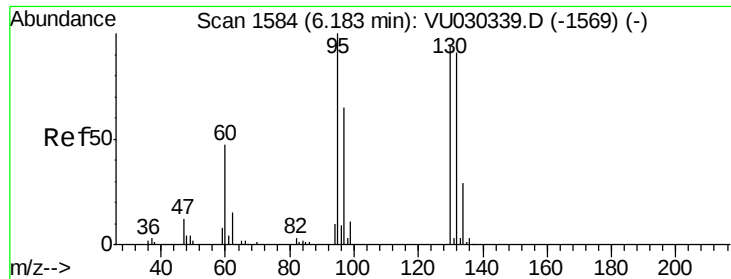
200000

100000

0

Time--> 5.20 5.30 5.40 5.50 5.60





#34

Trichloroethene

Concen: 46.010 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

Tgt Ion: 95 Resp: 188022

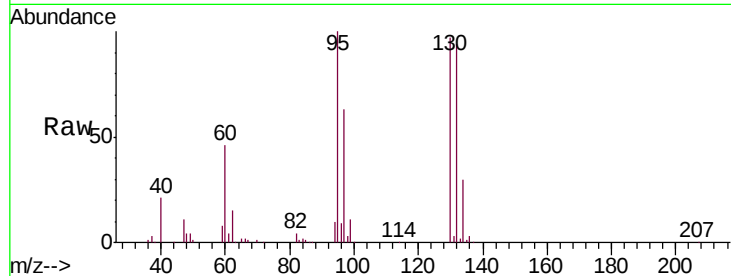
Ion Ratio Lower Upper

95 100

97 62.9 45.7 84.9

132 93.7 63.8 118.4

130 97.4 65.7 121.9

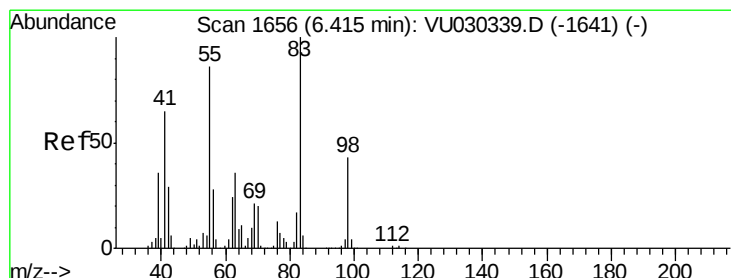
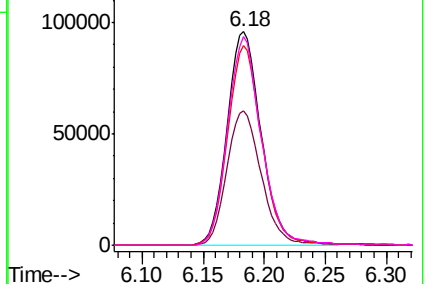
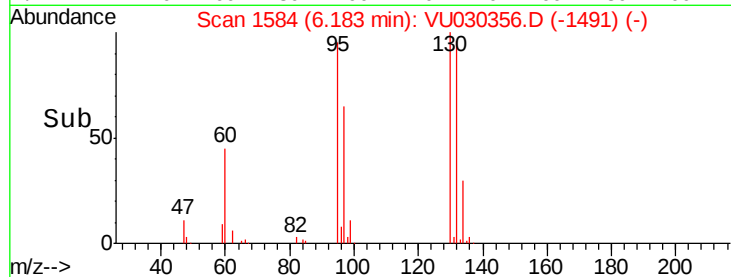


Abundance Ion 95.00 (94.70 to 95.70): VU030339.D (-1569) (-)

Ion 97.00 (96.70 to 97.70): VU030339.D (-1569) (-)

Ion 132.00 (131.70 to 132.70): VU030339.D (-1569) (-)

Ion 130.00 (129.70 to 130.70): VU030339.D (-1569) (-)



#35

Methylcyclohexane

Concen: 46.975 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

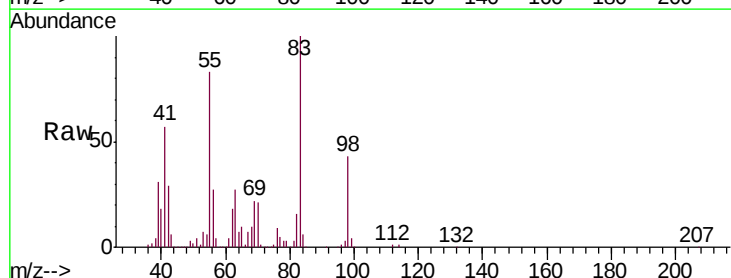
Tgt Ion: 83 Resp: 315893

Ion Ratio Lower Upper

83 100

55 85.4 71.4 107.0

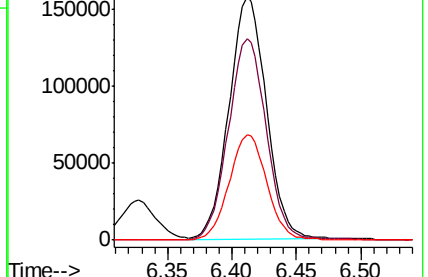
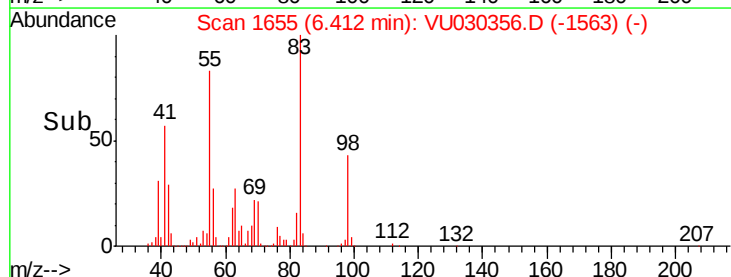
98 44.3 36.0 54.0

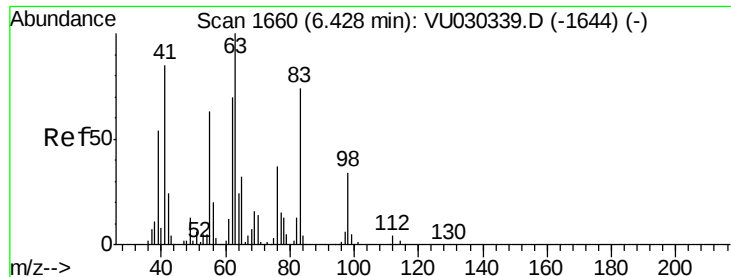


Abundance Ion 83.00 (82.70 to 83.70): VU030339.D (-1641) (-)

Ion 55.00 (54.70 to 55.70): VU030339.D (-1641) (-)

Ion 98.00 (97.70 to 98.70): VU030339.D (-1641) (-)





#37

1,2-Dichloropropane

Concen: 46.832 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

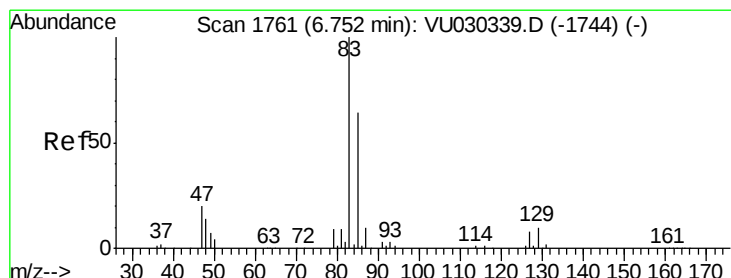
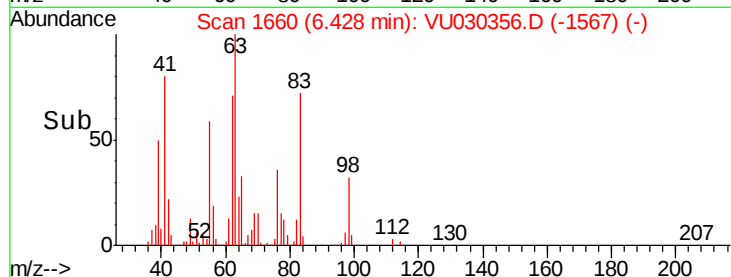
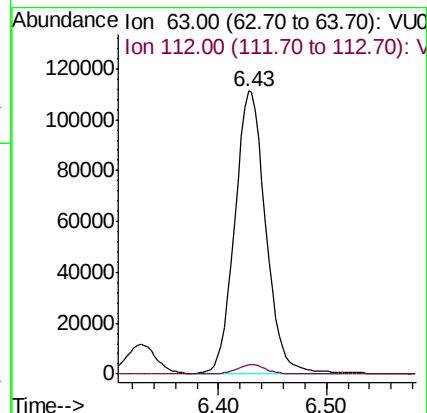
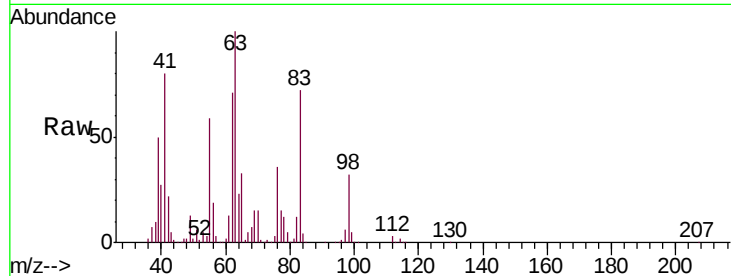
VSTD05056

Tgt Ion: 63 Resp: 220932

Ion Ratio Lower Upper

63 100

112 3.3 2.6 4.0



#38

Bromodichloromethane

Concen: 46.148 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

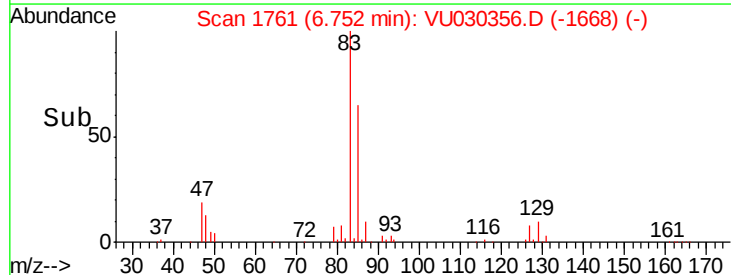
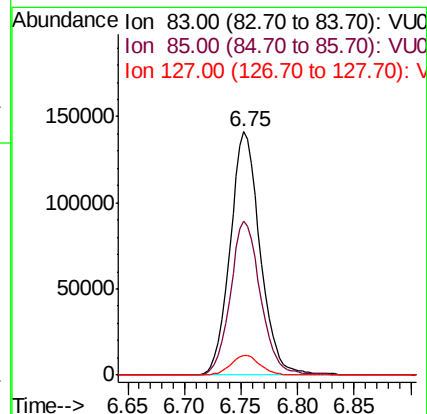
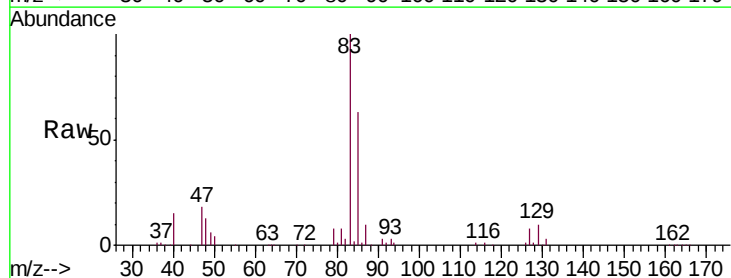
Tgt Ion: 83 Resp: 258682

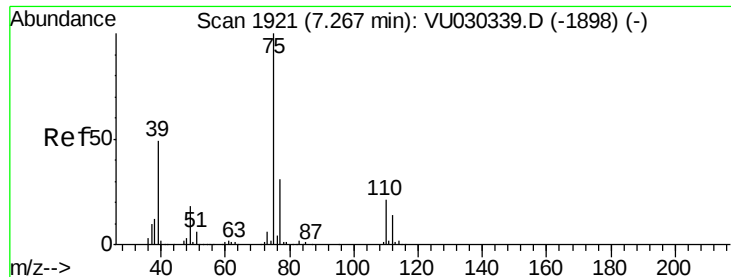
Ion Ratio Lower Upper

83 100

85 63.2 45.0 83.6

127 7.9 6.6 10.0

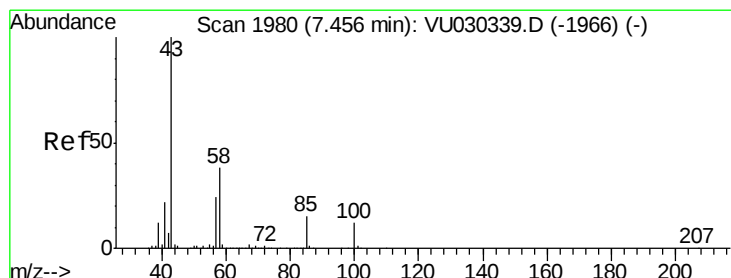
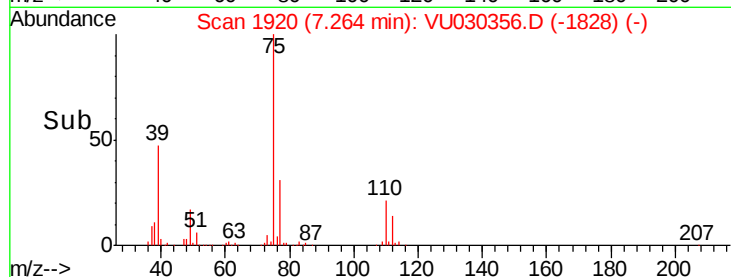
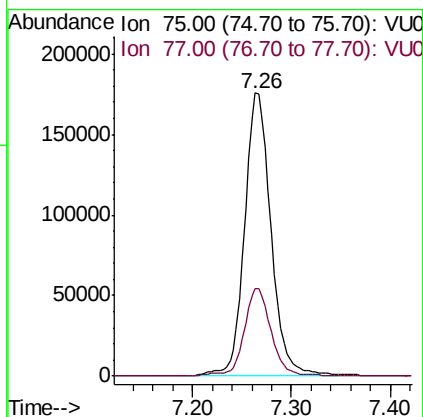
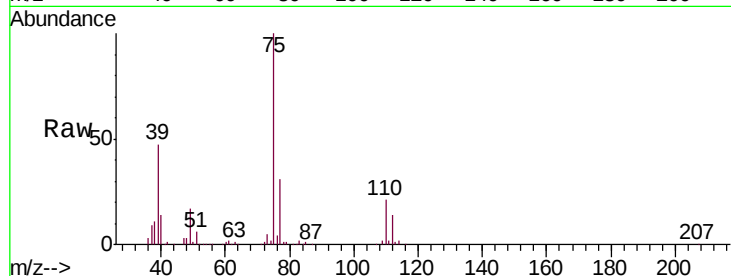




#39
 cis-1,3-Dichloropropene
 Concen: 48.171 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

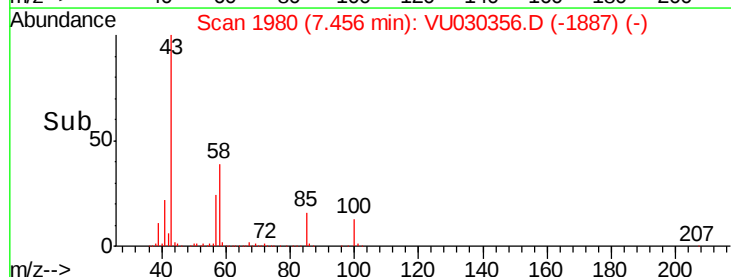
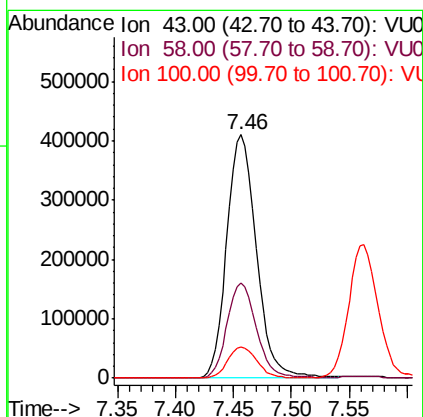
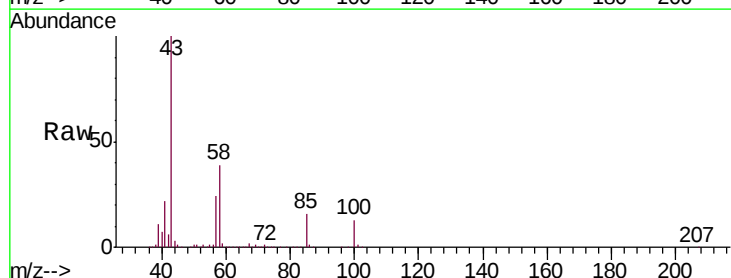
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

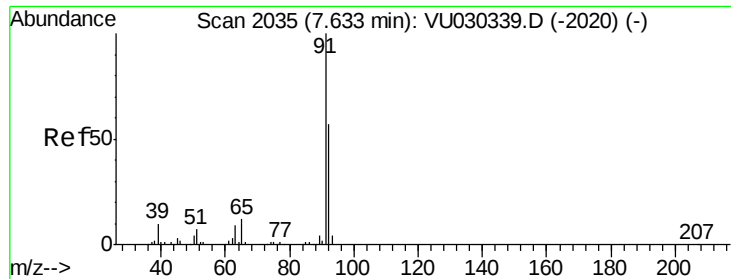
Tgt Ion: 75 Resp: 326638
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 91.918 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion: 43 Resp: 728368
 Ion Ratio Lower Upper
 43 100
 58 38.8 30.6 45.8
 100 12.8 9.5 14.3





#42

Toluene

Concen: 52.499 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

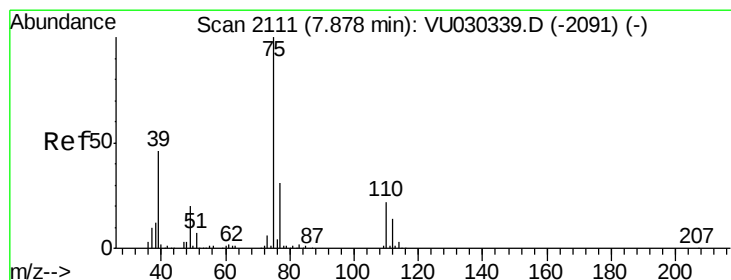
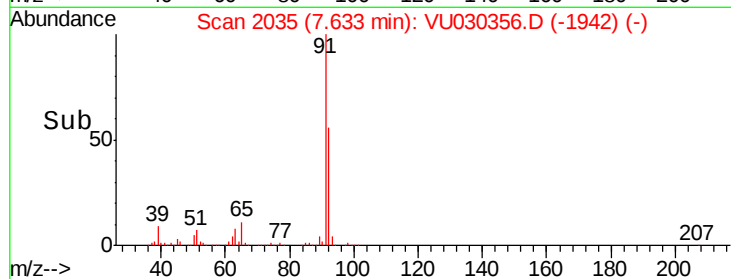
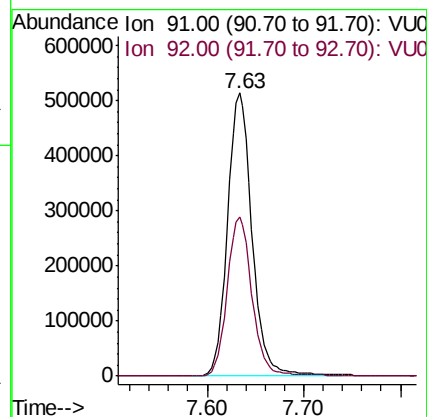
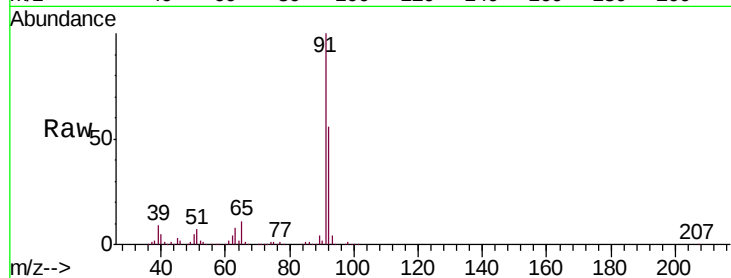
VSTD05056

Tgt Ion: 91 Resp: 905738

Ion Ratio Lower Upper

91 100

92 56.2 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 47.075 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU030356.D

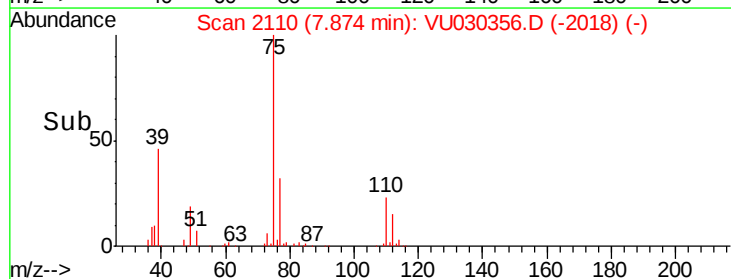
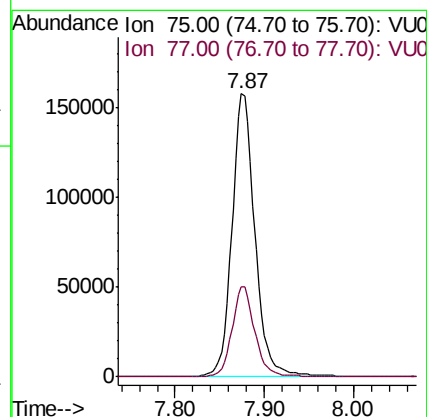
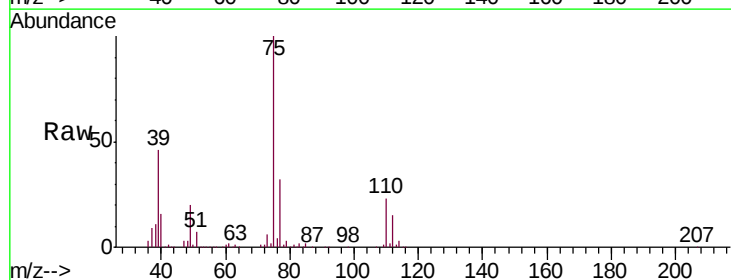
Acq: 23 Mar 2019 22:37

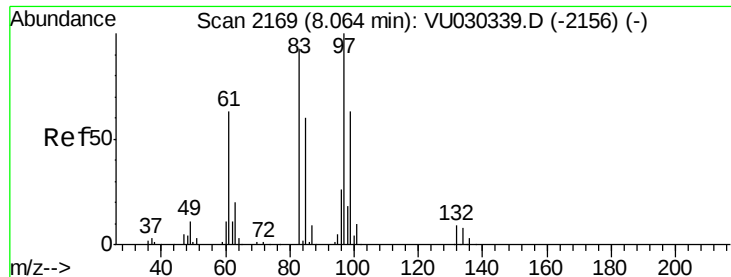
Tgt Ion: 75 Resp: 280869

Ion Ratio Lower Upper

75 100

77 32.0 22.0 40.8

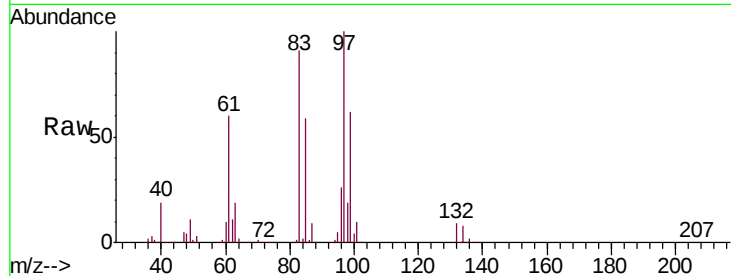




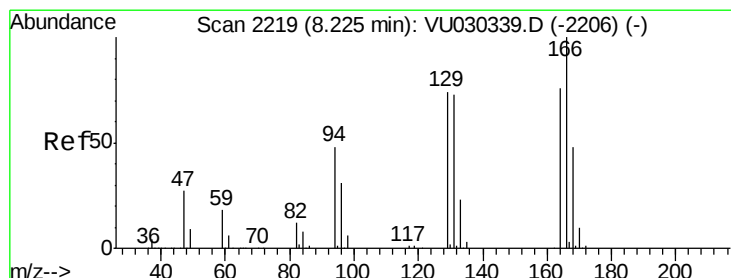
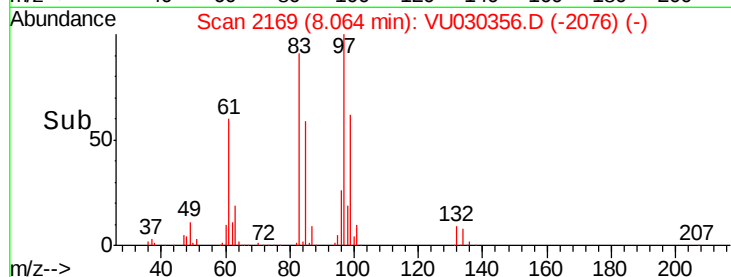
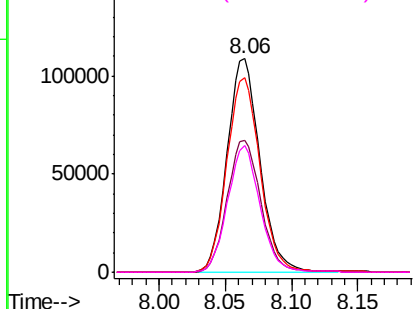
#45
 1,1,2-Trichloroethane
 Concen: 47.110 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

Tgt Ion: 97 Resp: 187781
 Ion Ratio Lower Upper
 97 100
 99 62.0 44.0 81.8
 83 90.9 65.3 121.3
 85 59.3 41.8 77.6

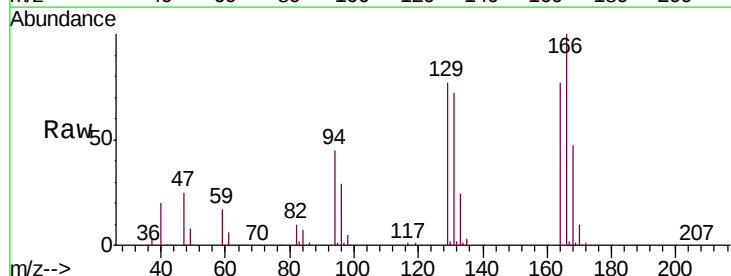


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

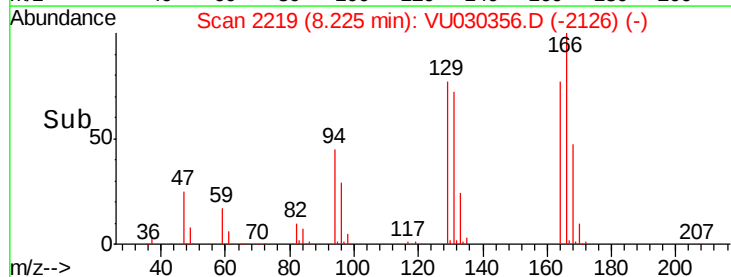
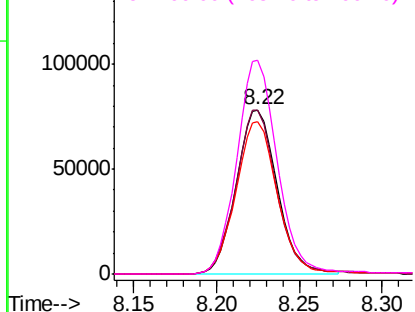


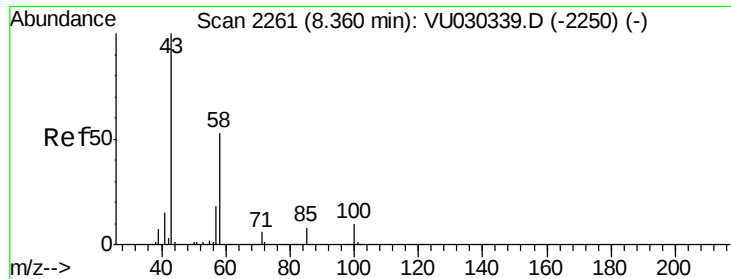
#46
 Tetrachloroethene
 Concen: 47.151 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion: 164 Resp: 134584
 Ion Ratio Lower Upper
 164 100
 129 99.4 68.1 126.5
 131 93.0 67.7 125.7
 166 129.9 92.4 171.6



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

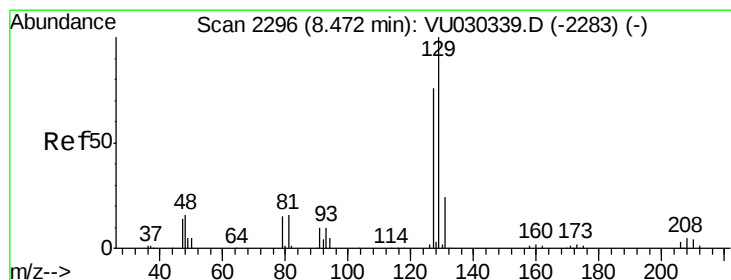
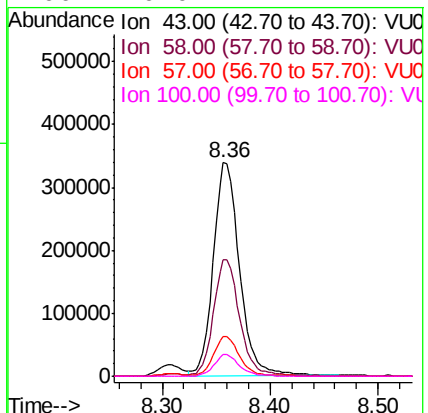
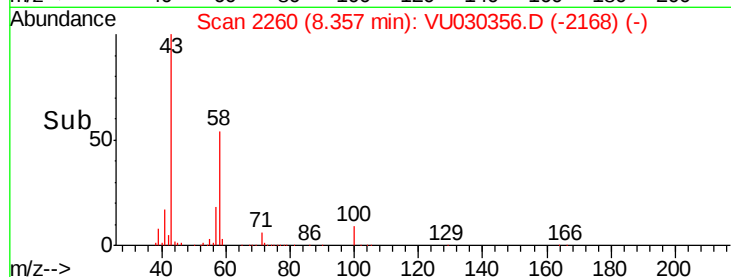
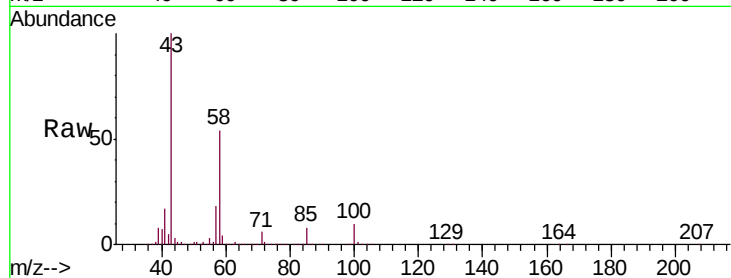




#48
2-Hexanone
Concen: 87.571 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU030356.D
Acq: 23 Mar 2019 22:37

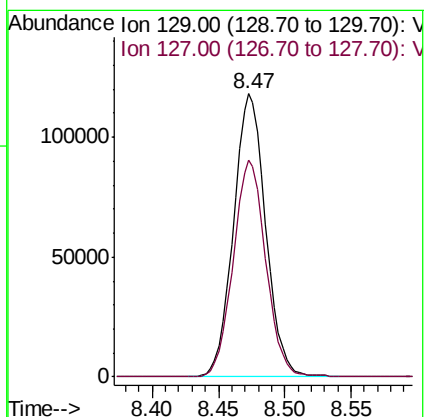
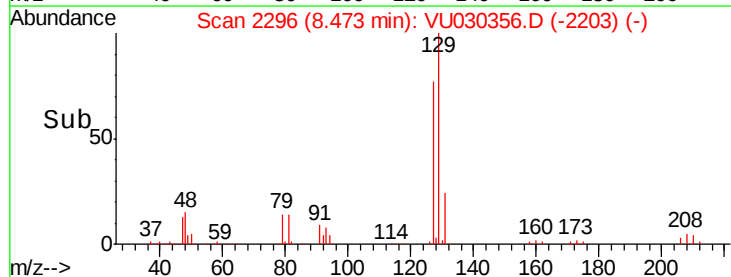
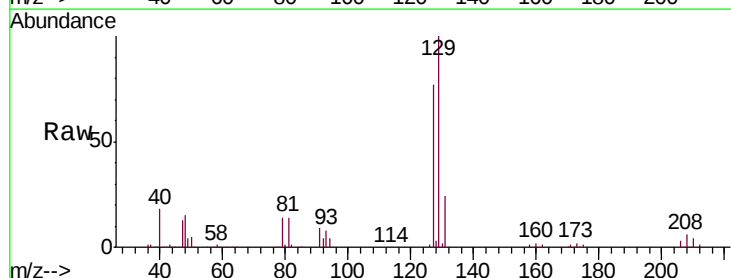
Instrument :
MSVOA_U
ClientSampleId :
VSTD05056

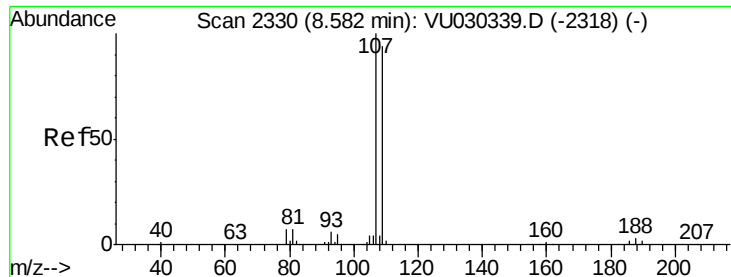
Tgt Ion: 43 Resp: 568728
Ion Ratio Lower Upper
43 100
58 54.3 42.5 63.7
57 17.7 15.0 22.6
100 10.0 7.4 11.2



#49
Dibromochloromethane
Concen: 48.035 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030356.D
Acq: 23 Mar 2019 22:37

Tgt Ion: 129 Resp: 198949
Ion Ratio Lower Upper
129 100
127 76.5 53.2 98.8





#50

1,2-Dibromoethane

Concen: 47.929 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

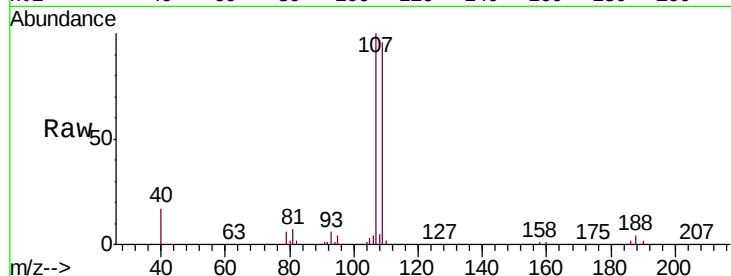
Tgt Ion:107 Resp: 205033

Ion Ratio Lower Upper

107 100

109 95.5 65.8 122.2

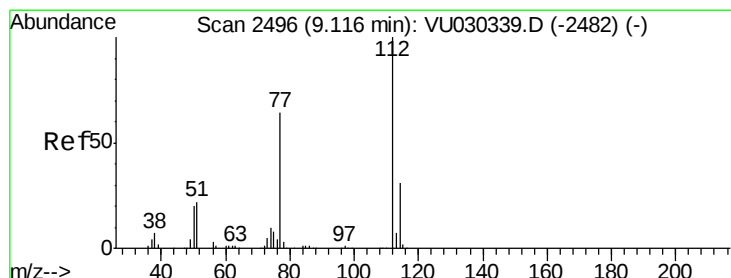
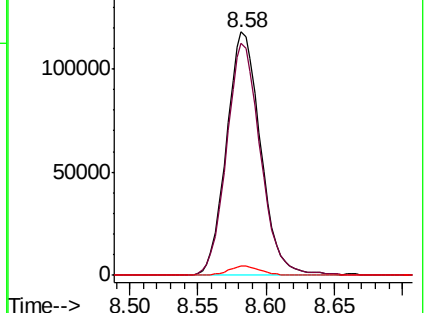
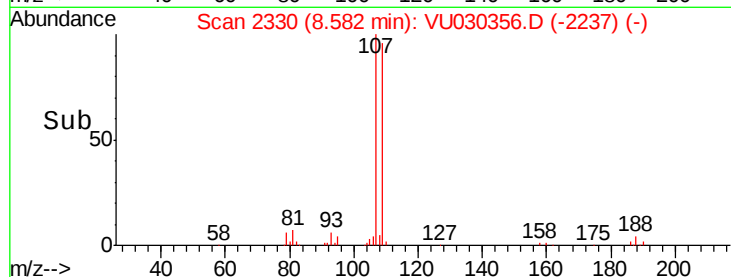
188 3.6 2.6 4.0



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: 47.528 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

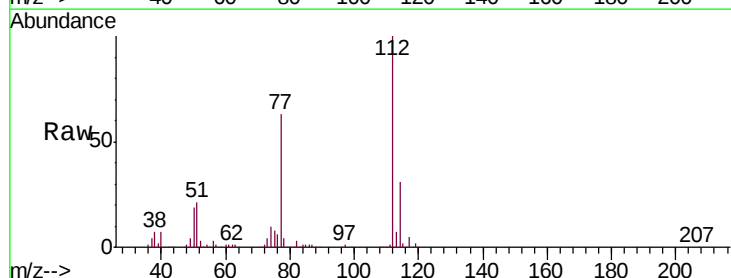
Tgt Ion:112 Resp: 496949

Ion Ratio Lower Upper

112 100

114 31.2 21.5 39.9

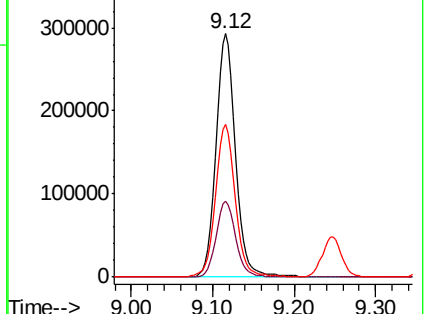
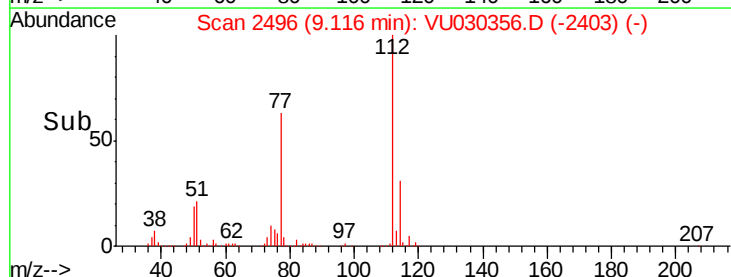
77 62.6 51.4 77.0

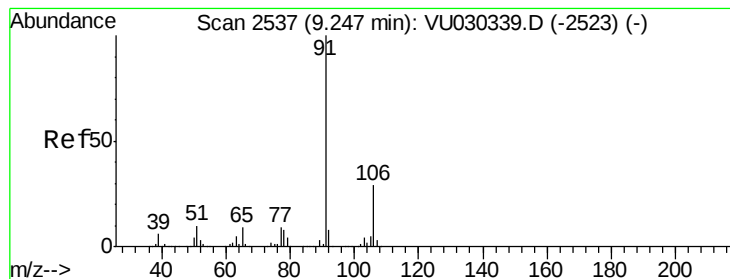


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 48.118 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

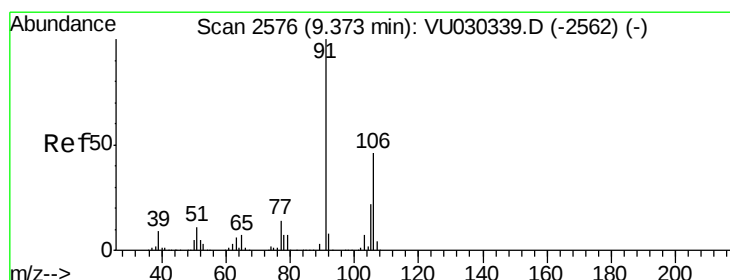
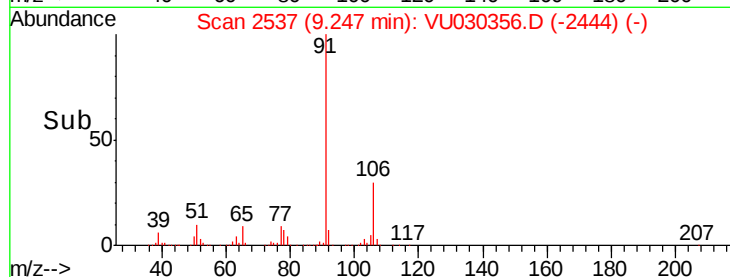
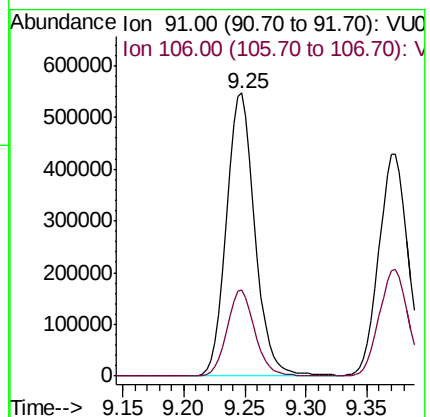
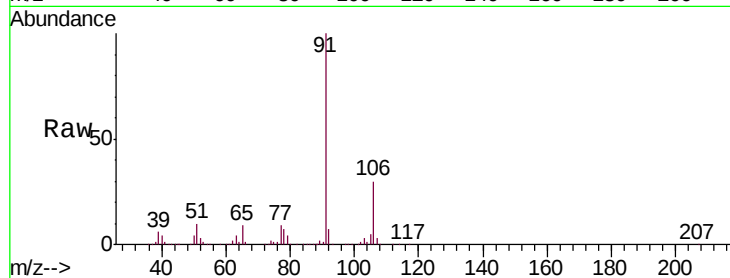
VSTD05056

Tgt Ion: 91 Resp: 899278

Ion Ratio Lower Upper

91 100

106 30.3 20.6 38.2



#53

m,p-Xylene

Concen: 51.373 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030356.D

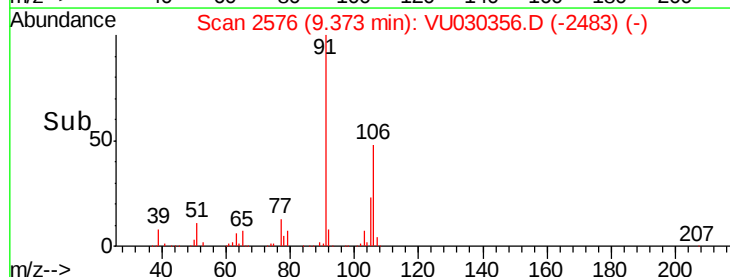
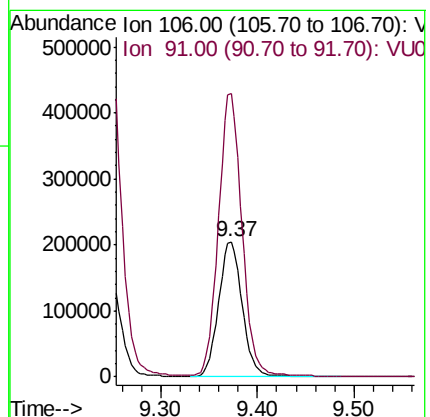
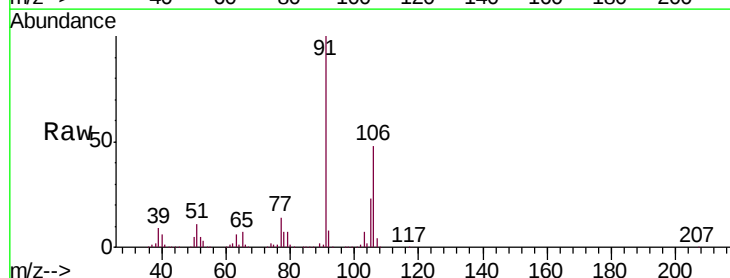
Acq: 23 Mar 2019 22:37

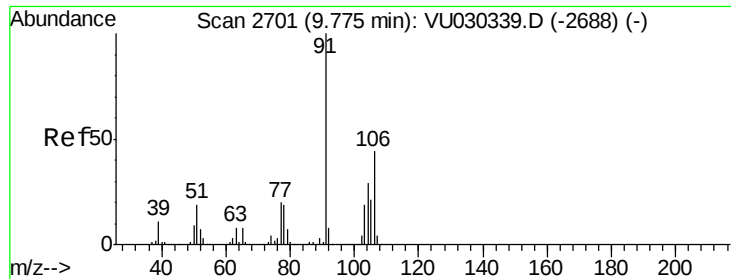
Tgt Ion: 106 Resp: 346668

Ion Ratio Lower Upper

106 100

91 209.1 151.2 280.8





#54

o-xylene

Concen: 50.601 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

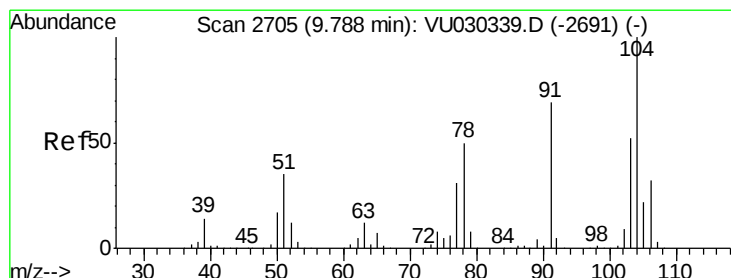
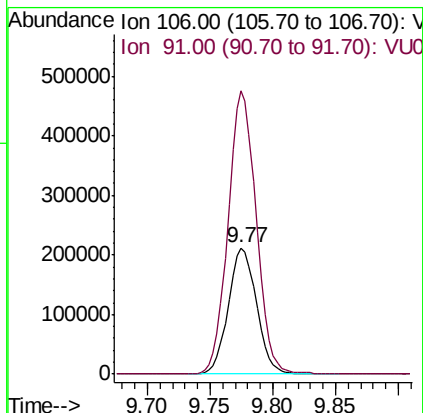
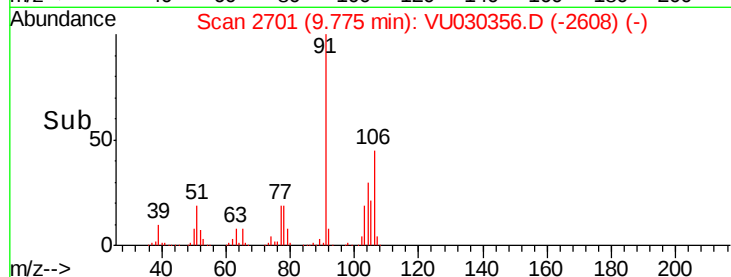
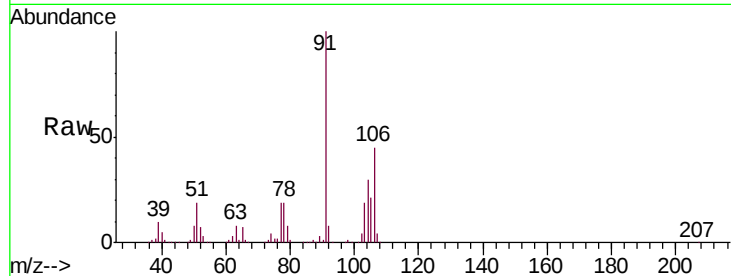
VSTD05056

Tgt Ion:106 Resp: 333177

Ion Ratio Lower Upper

106 100

91 224.0 159.6 296.4



#55

Styrene

Concen: 49.173 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030356.D

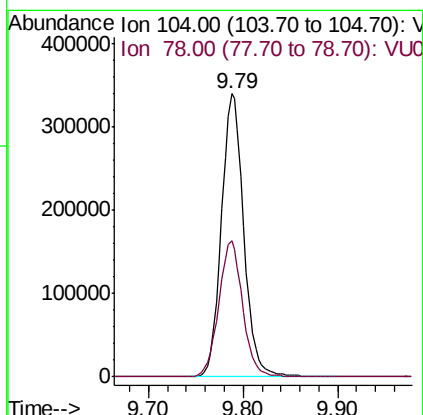
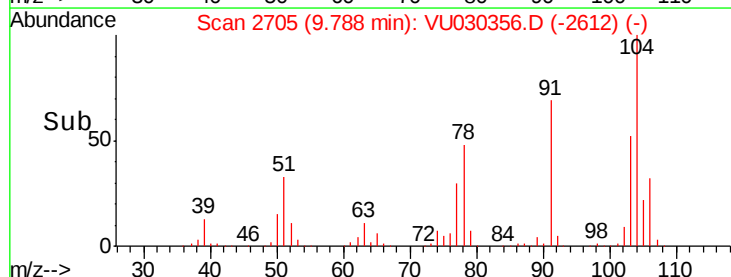
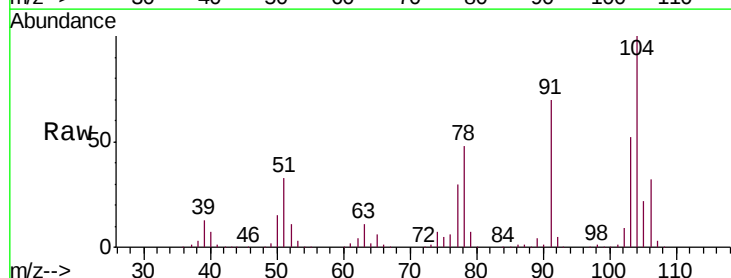
Acq: 23 Mar 2019 22:37

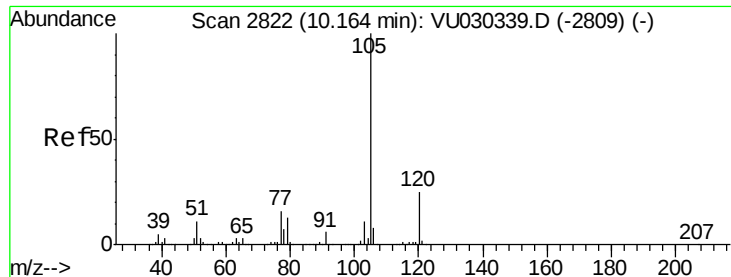
Tgt Ion:104 Resp: 557726

Ion Ratio Lower Upper

104 100

78 48.1 35.1 65.3





#56

Isopropylbenzene

Concen: 48.561 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

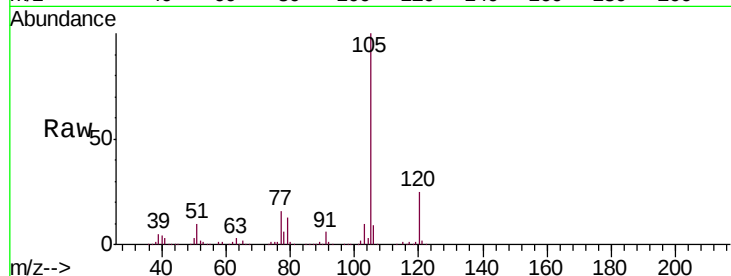
Tgt Ion:105 Resp: 846630

Ion Ratio Lower Upper

105 100

120 25.1 20.2 30.2

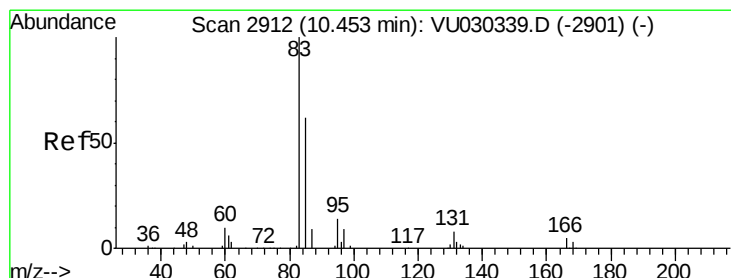
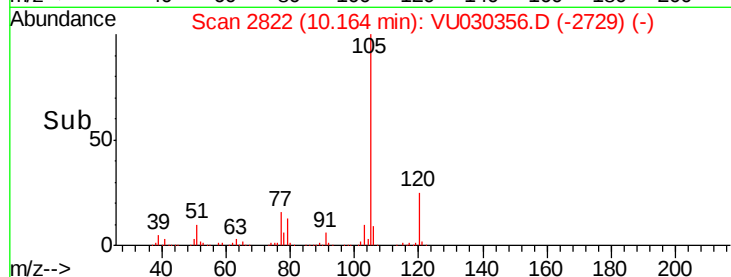
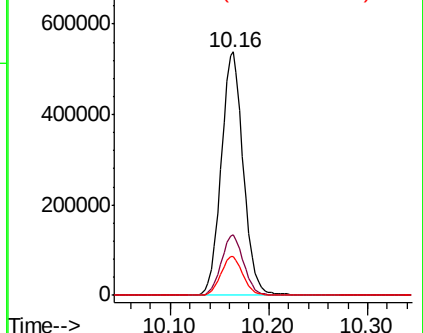
77 16.1 13.2 19.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.144 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

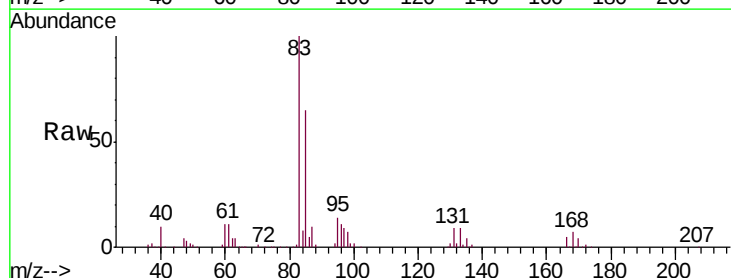
Tgt Ion: 83 Resp: 338991

Ion Ratio Lower Upper

83 100

85 64.8 44.3 82.3

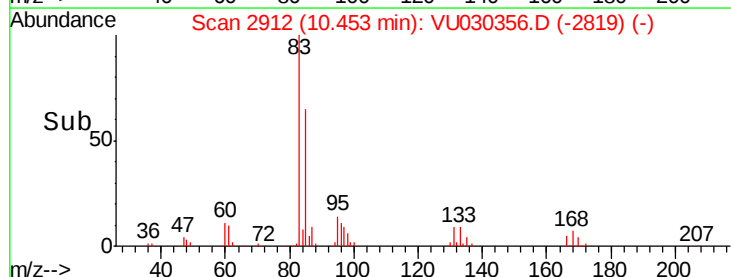
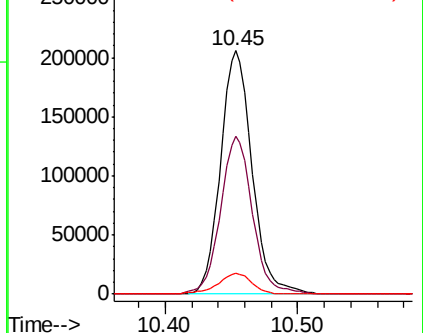
131 8.6 6.7 10.1

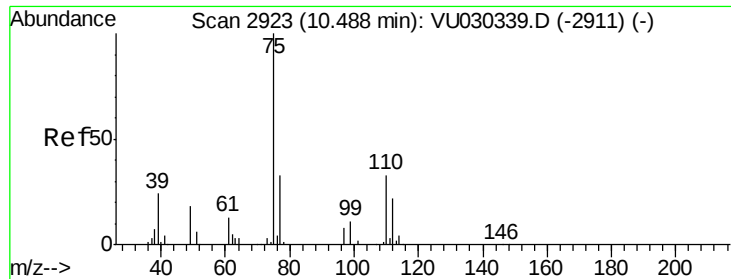


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

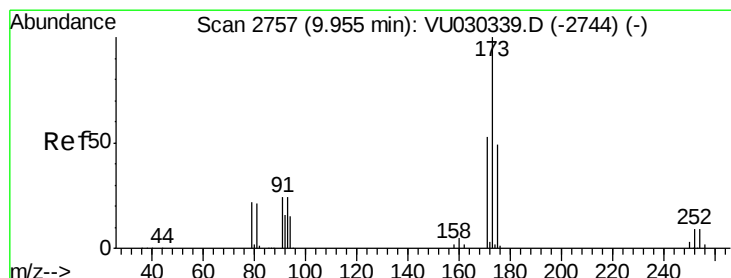
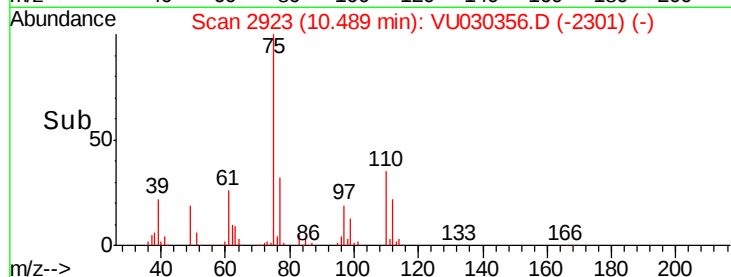
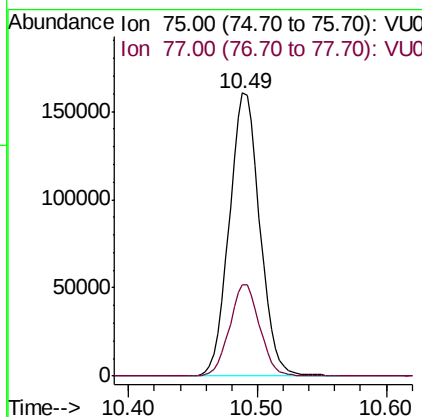
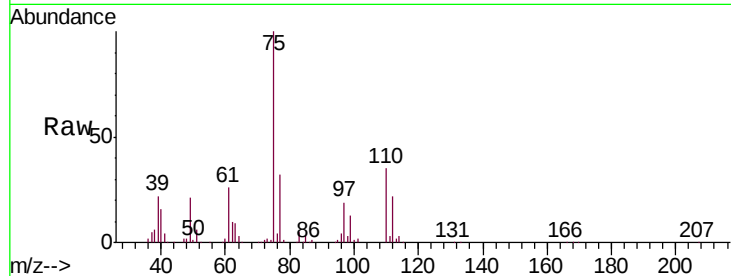




#59
 1,2,3-Trichloropropane
 Concen: 45.976 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

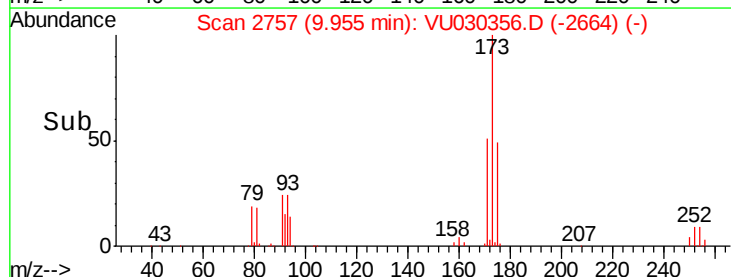
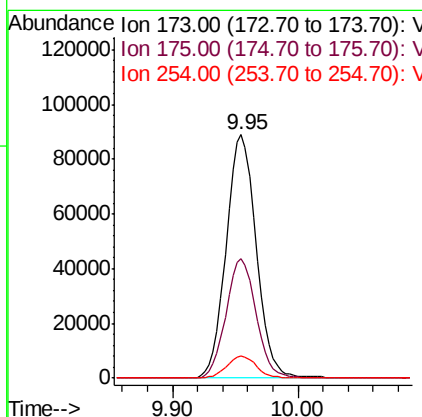
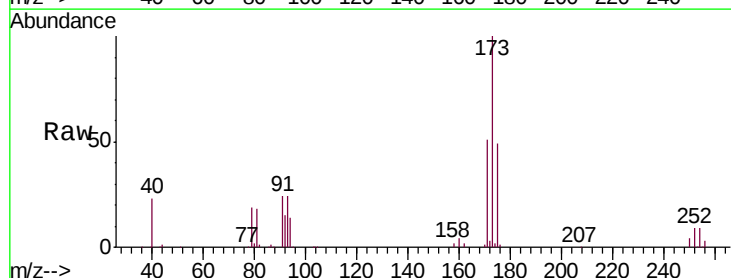
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

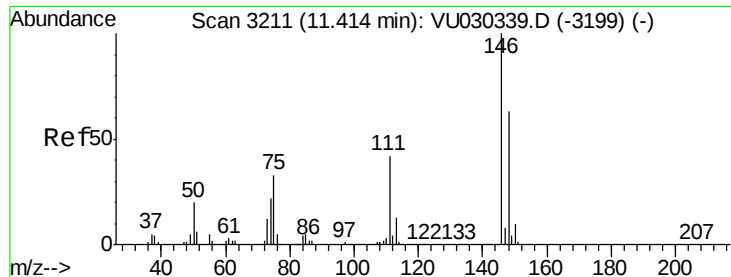
Tgt Ion: 75 Resp: 264003
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.4 38.2



#61
 Bromoform
 Concen: 49.841 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion: 173 Resp: 147801
 Ion Ratio Lower Upper
 173 100
 175 49.3 38.5 57.7
 254 8.9 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 47.584 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

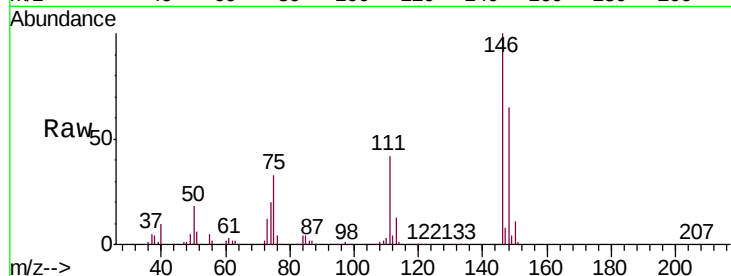
Tgt Ion:146 Resp: 347084

Ion Ratio Lower Upper

146 100

111 42.1 29.2 54.2

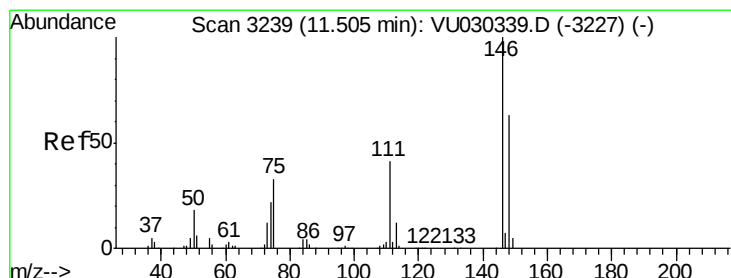
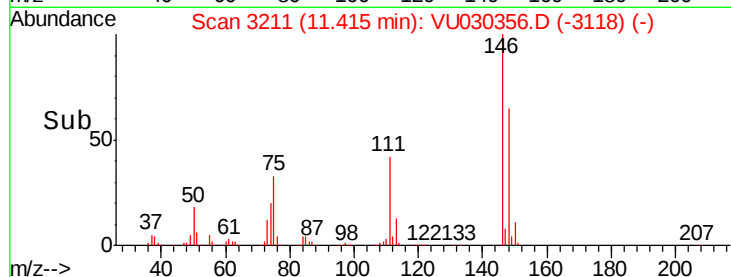
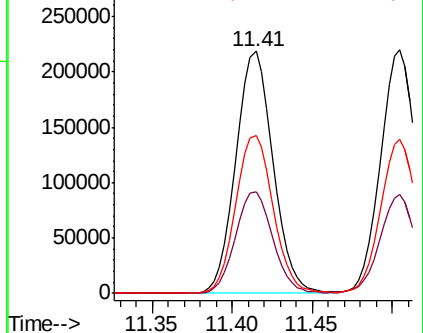
148 65.3 44.4 82.4



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: 46.776 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

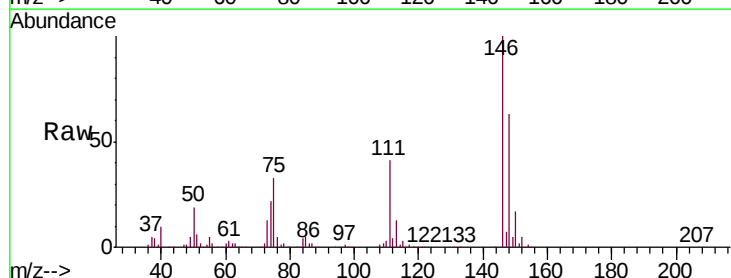
Tgt Ion:146 Resp: 351242

Ion Ratio Lower Upper

146 100

111 40.6 28.7 53.3

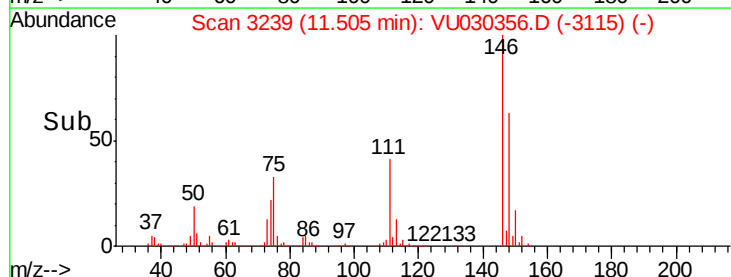
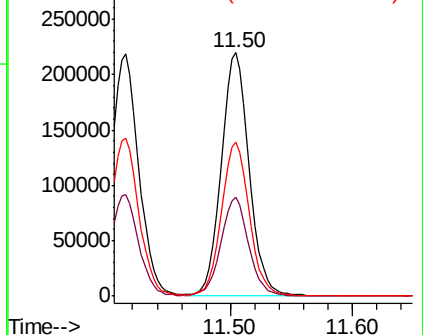
148 63.3 44.3 82.3

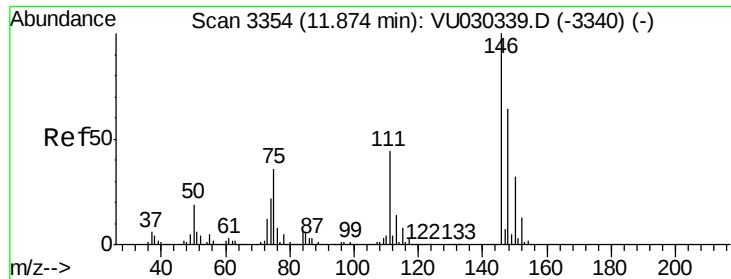


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

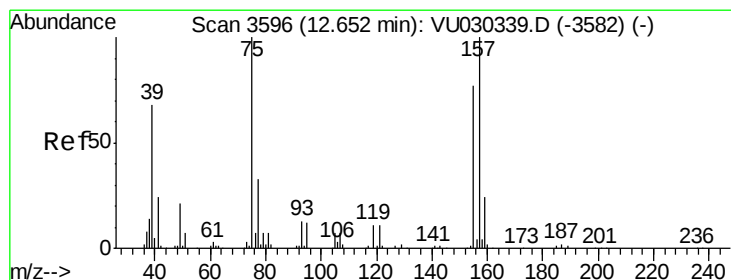
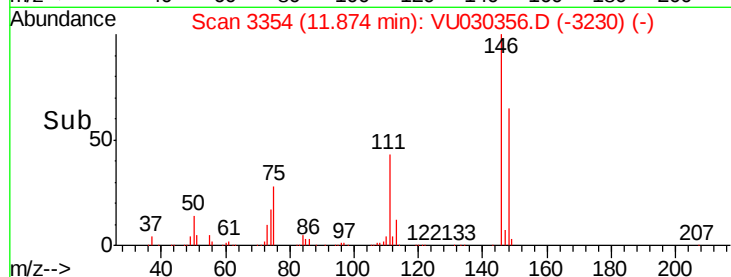
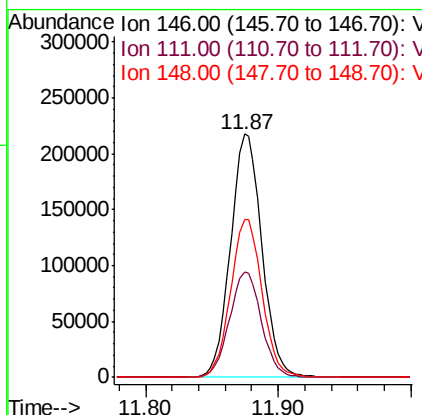
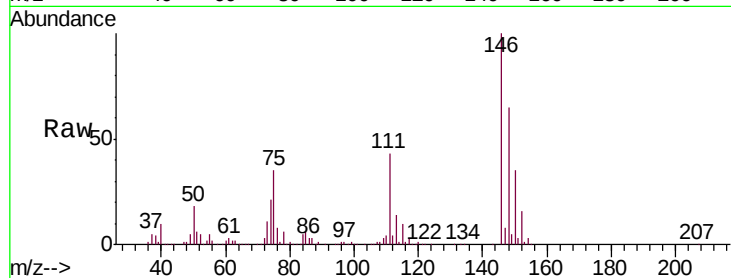




#65
 1,2-Dichlorobenzene
 Concen: 48.368 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

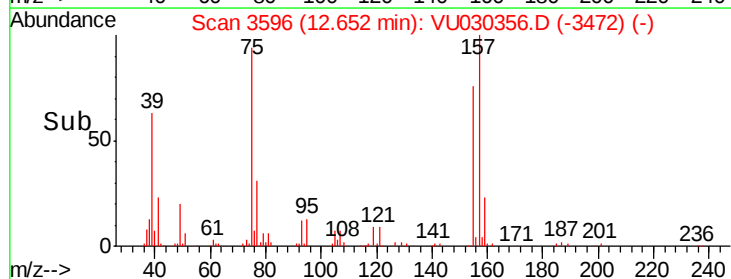
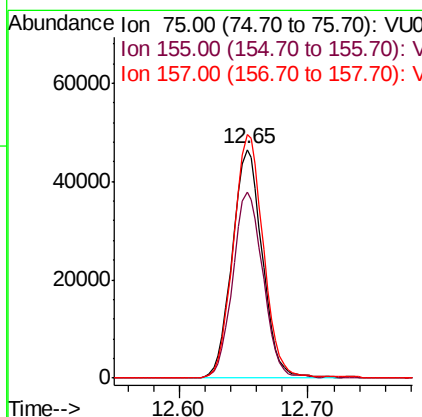
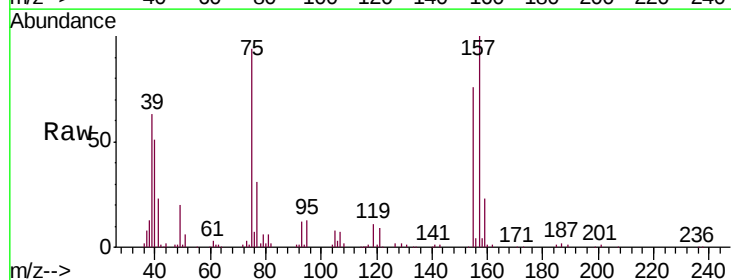
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

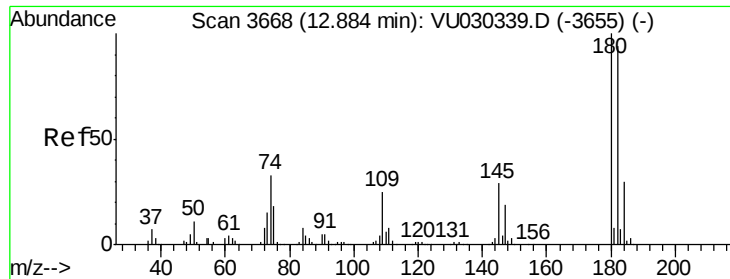
Tgt Ion: 146 Resp: 356733
 Ion Ratio Lower Upper
 146 100
 111 43.5 34.9 52.3
 148 65.0 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.054 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion: 75 Resp: 75632
 Ion Ratio Lower Upper
 75 100
 155 81.3 61.8 92.6
 157 106.4 80.2 120.4

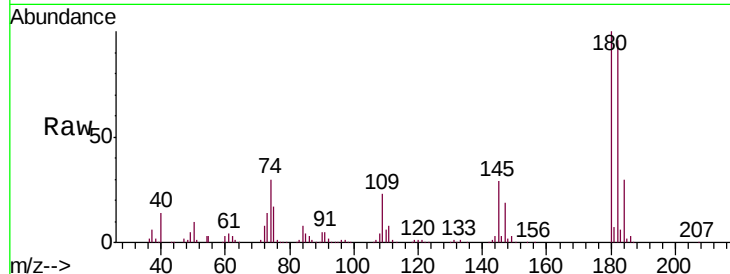




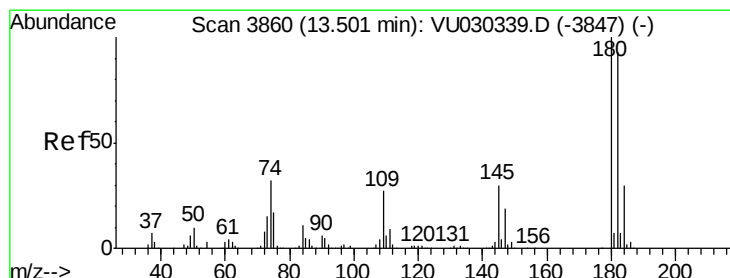
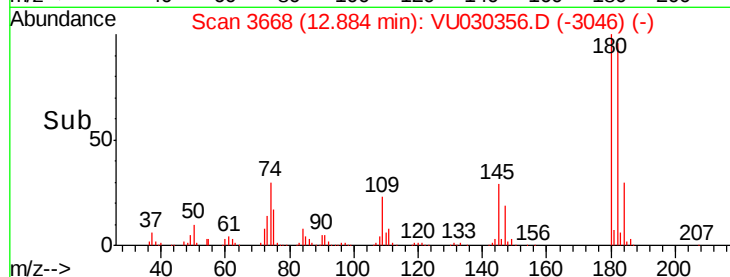
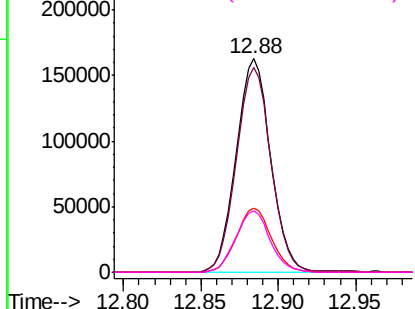
#67
 1,3,5-Trichlorobenzene
 Concen: 46.196 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05056

Tgt Ion:	180	Resp:	252255
Ion	Ratio	Lower	Upper
180	100		
182	96.4	75.9	113.9
184	30.4	24.1	36.1
145	28.7	23.8	35.8

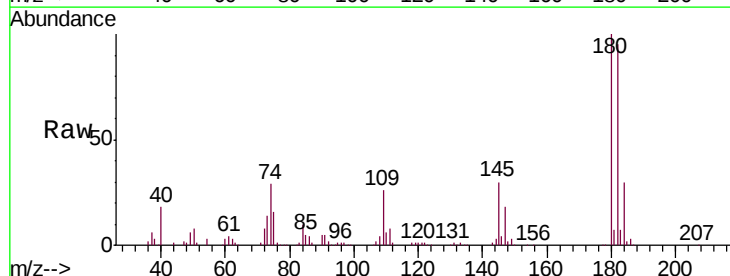


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

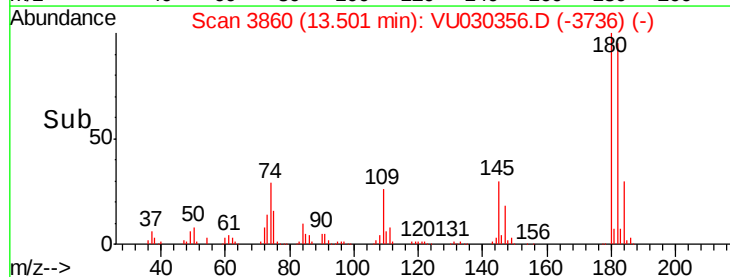
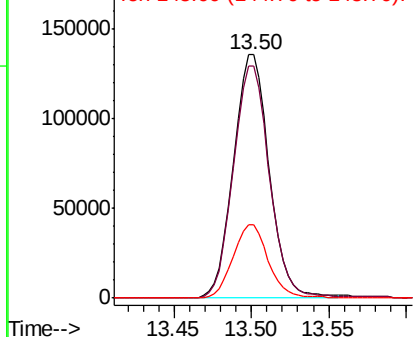


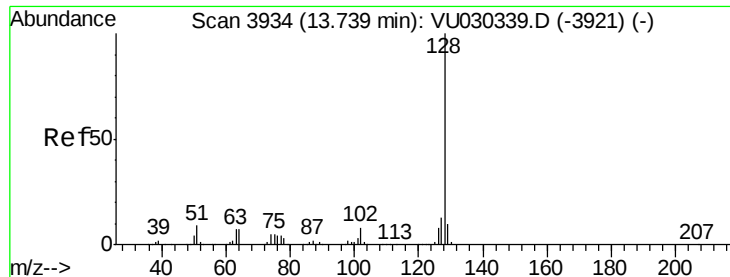
#68
 1,2,4-trichlorobenzene
 Concen: 46.040 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030356.D
 Acq: 23 Mar 2019 22:37

Tgt Ion:	180	Resp:	218439
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.1	114.1
145	29.9	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: 47.426 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

Instrument :

MSVOA_U

ClientSampleId :

VSTD05056

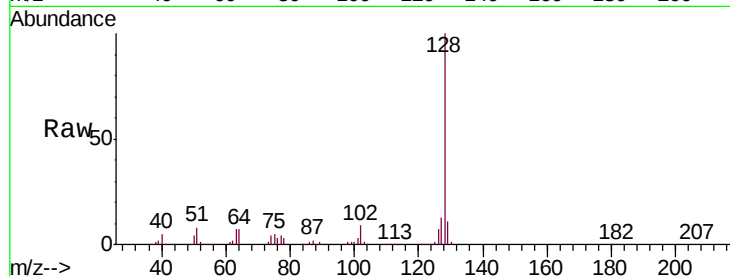
Tgt Ion:128 Resp: 800113

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

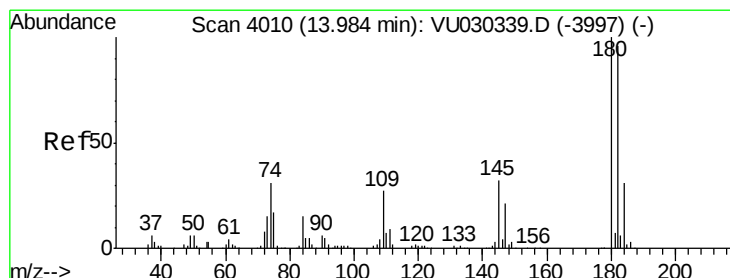
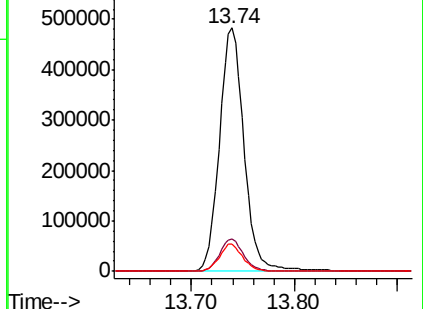
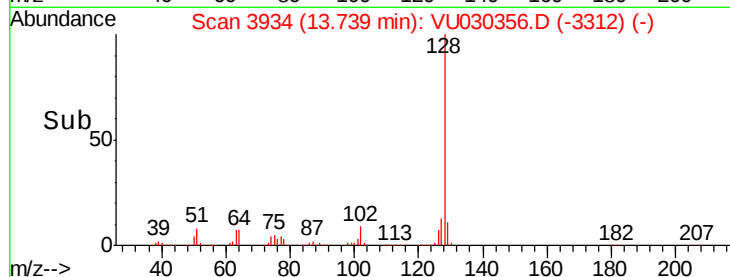
129 10.7 8.4 12.6



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: 46.166 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030356.D

Acq: 23 Mar 2019 22:37

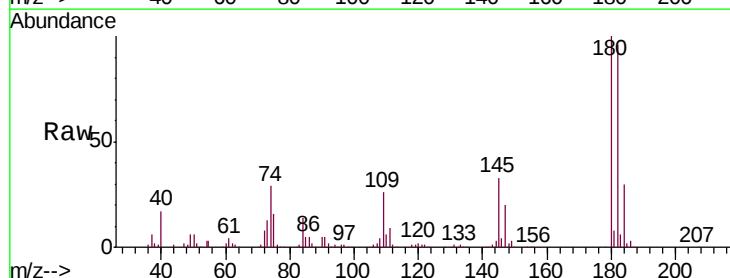
Tgt Ion:180 Resp: 231293

Ion Ratio Lower Upper

180 100

182 95.7 77.4 116.2

145 32.3 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

