

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU031002.D
 Acq On : 10 Apr 2019 10:21
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

Quant Time: Apr 11 01:58:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 11 01:24:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	232117	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	233003	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	110988	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	72750	4.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.00%
7) Chloroethane-d5	1.68	69	67271	4.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.00%
11) 1,1-Dichloroethene-d2	2.27	63	167211	4.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.00%
20) 2-Butanone-d5	4.19	46	257691	56.38	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.76%
24) Chloroform-d	4.64	84	137716	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.60%
26) 1,2-Dichloroethane-d4	5.31	65	83772	5.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.00%
32) Benzene-d6	5.33	84	264851	4.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.40%
36) 1,2-Dichloropropane-d6	6.32	67	89424	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.80%
41) Toluene-d8	7.56	98	236554	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.40%
43) trans-1,3-Dichloropropene-	7.85	79	33550	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
46) 2-Hexanone-d5	8.31	63	177289	53.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.70%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	80256	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.80%
64) 1,2-Dichlorobenzene-d4	11.85	152	82558	4.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	135623	5.245 ug/L	98
3) Chloromethane	1.32	50	147865	4.878 ug/L	100
5) Vinyl chloride	1.40	62	149073	5.367 ug/L	97
6) Bromomethane	1.62	94	75979	5.592 ug/L	100
8) Chloroethane	1.69	64	86966	5.504 ug/L	99
9) Trichlorofluoromethane	1.88	101	181130	5.754 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	95874	5.476 ug/L	98
12) 1,1-Dichloroethene	2.28	96	89954	5.311 ug/L	91
13) Acetone	2.32	43	218502	61.834 ug/L	98
14) Carbon disulfide	2.47	76	307628	5.179 ug/L	100
15) Methyl Acetate	2.61	43	58627	6.422 ug/L	99
16) Methylene chloride	2.69	84	107165	5.428 ug/L	98
17) Methyl tert-butyl Ether	3.00	73	269617	5.947 ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	97681	5.463 ug/L	97
19) 1,1-Dichloroethane	3.44	63	193946	5.128 ug/L	99
21) 2-Butanone	4.27	43	320771	57.277 ug/L	97
22) cis-1,2-Dichloroethene	4.22	96	98279	5.154 ug/L	99

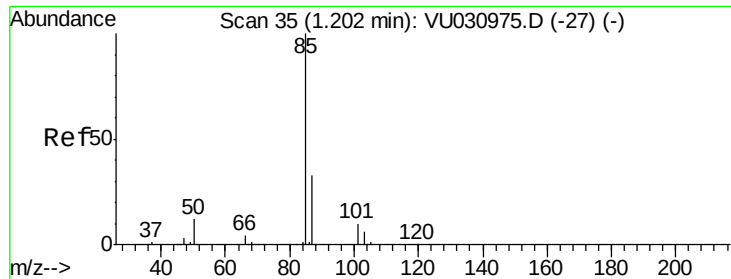
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 11 01:24:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	45912	6.027	ug/L	96
25) Chloroform	4.67	83	197099	5.716	ug/L	97
27) 1,2-Dichloroethane	5.40	62	120090	5.368	ug/L	96
29) 1,1,1-Trichloroethane	4.91	97	157931	5.321	ug/L	96
30) Cyclohexane	4.99	56	152216	4.248	ug/L	95
31) Carbon tetrachloride	5.13	117	136190	5.465	ug/L	97
33) Benzene	5.38	78	391278	4.964	ug/L	100
34) Trichloroethene	6.18	95	96857	4.909	ug/L	94
35) Methylcyclohexane	6.41	83	141887	4.506	ug/L	99
37) 1,2-Dichloropropane	6.43	63	105842	4.879	ug/L	100
38) Bromodichloromethane	6.75	83	132088	5.215	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	137151	4.728	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	733140	54.181	ug/L	99
42) Toluene	7.63	91	409117	5.176	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	116616	5.194	ug/L	97
45) 1,1,2-Trichloroethane	8.06	97	75198	5.814	ug/L	97
47) Tetrachloroethene	8.22	164	74636	5.393	ug/L	98
48) 2-Hexanone	8.36	43	541937	57.802	ug/L	98
49) Dibromochloromethane	8.47	129	84611	5.470	ug/L	85
50) 1,2-Dibromoethane	8.59	107	69117	5.733	ug/L	100
51) Chlorobenzene	9.12	112	242434	4.974	ug/L	99
52) Ethylbenzene	9.24	91	412410	4.892	ug/L	99
53) m,p-Xylene	9.37	106	148403	5.039	ug/L	98
54) o-Xylene	9.77	106	143317	4.963	ug/L	96
55) Styrene	9.79	104	257075	5.276	ug/L	98
56) Isopropylbenzene	10.16	105	382652	4.960	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	96716	5.624	ug/L	95
59) 1,2,3-Trichloropropane	10.49	75	69331	5.720	ug/L	99
61) Bromoform	9.95	173	47422	5.642	ug/L	98
62) 1,3-Dichlorobenzene	11.41	146	168530	4.812	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	177221	4.827	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	171100	5.021	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.65	75	15615	5.922	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	127837	4.892	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	94250	4.670	ug/L	94
69) Naphthalene	13.74	128	149145	4.602	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	97160	5.166	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.245 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

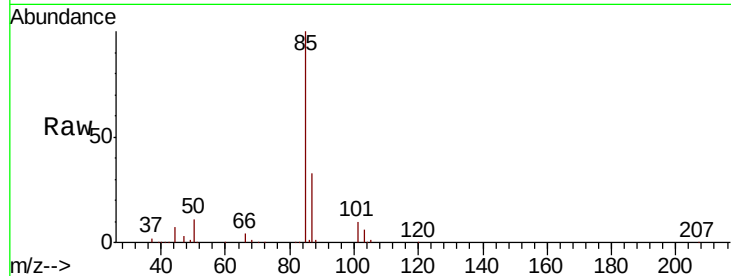
VSTD00516

Tot Ion: 85 Resp: 135623

Ion Ratio Lower Upper

85 100

87 33.2 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU030975.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU030975.D (-27) (-)

1.20

150000

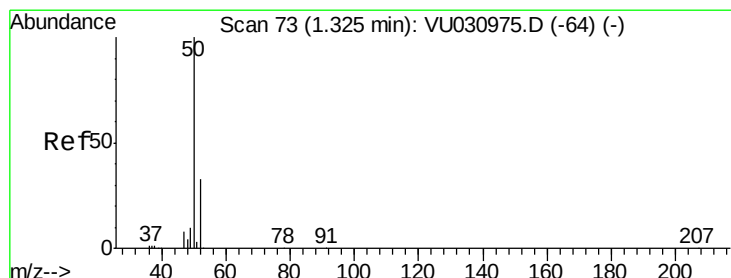
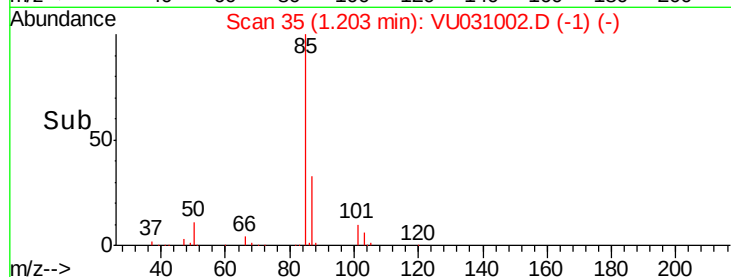
100000

50000

0

Time-->

1.15 1.20 1.25 1.30



#3

Chloromethane

Concen: 4.878 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031002.D

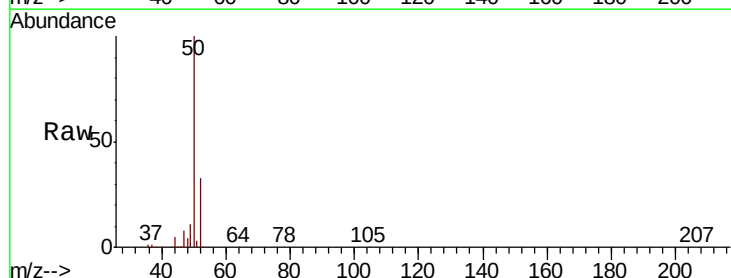
Acq: 10 Apr 2019 10:21

Tgt Ion: 50 Resp: 147865

Ion Ratio Lower Upper

50 100

52 32.6 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU030975.D (-64) (-)

Ion 52.05 (51.75 to 52.75): VU030975.D (-64) (-)

1.32

150000

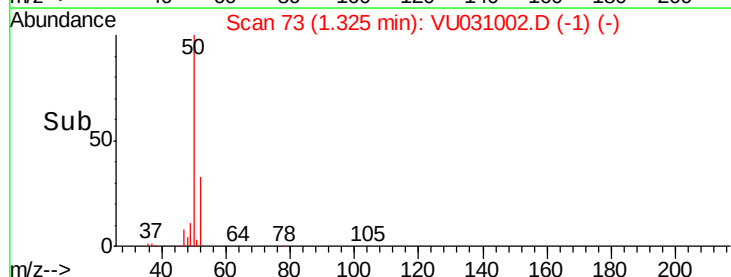
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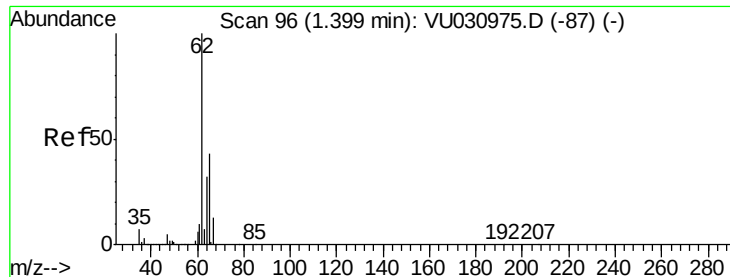
50000

0

Time-->

1.30 1.35





#5

Vinyl chloride

Concen: 5.367 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

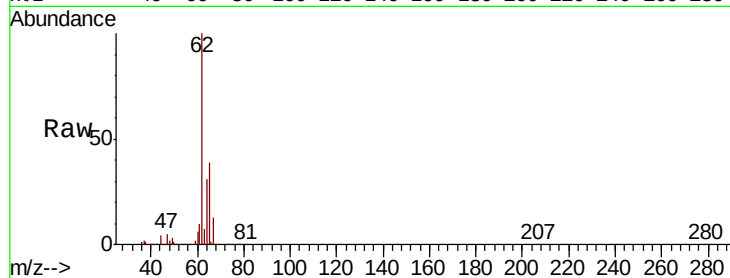
VSTD00516

Tot Ion: 62 Resp: 149073

Ion Ratio Lower Upper

62 100

64 30.7 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU031002.D (-3) (-)

Ion 64.10 (63.80 to 64.80): VU031002.D (-3) (-)

1.40

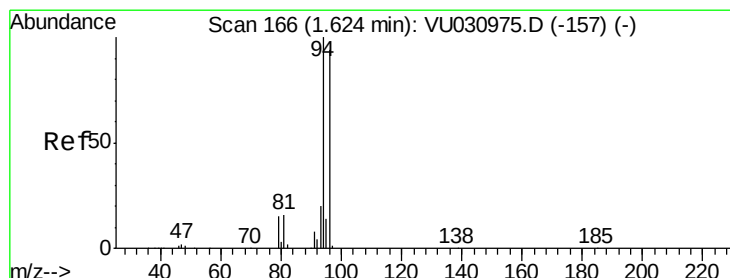
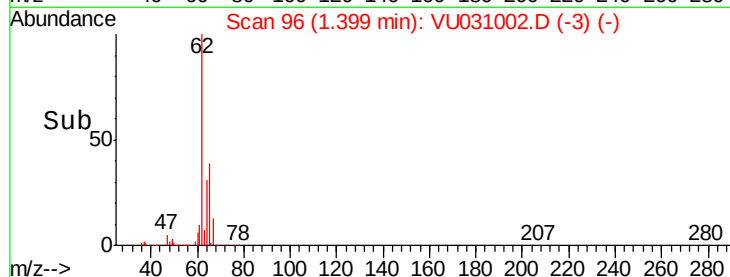
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.592 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU031002.D

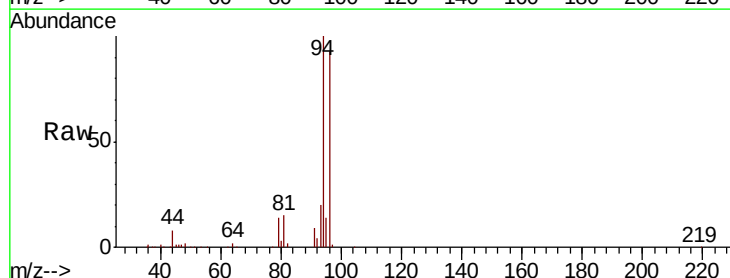
Acq: 10 Apr 2019 10:21

Tgt Ion: 94 Resp: 75979

Ion Ratio Lower Upper

94 100

96 92.6 64.6 120.0



Abundance Ion 94.00 (93.70 to 94.70): VU031002.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU031002.D (-73) (-)

1.62

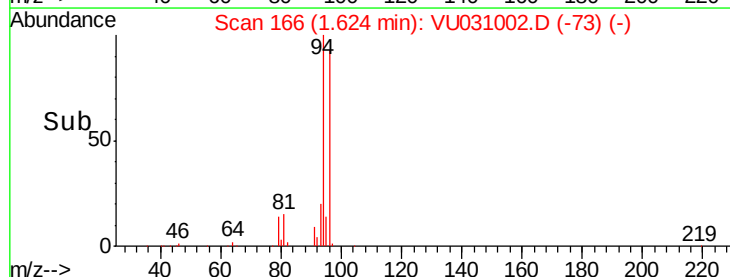
60000

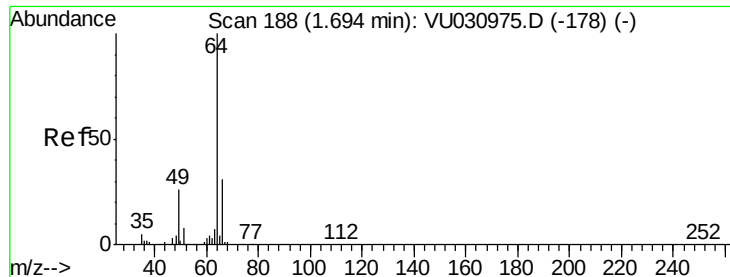
40000

20000

0

Time-->





#8

Chloroethane

Concen: 5.504 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

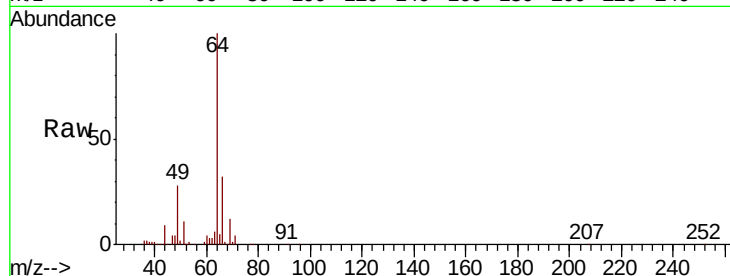
VSTD00516

Tot Ion: 64 Resp: 86966

Ion Ratio Lower Upper

64 100

66 32.3 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU031002.D (-95) (-)

Ion 66.05 (65.75 to 66.75): VU031002.D (-95) (-)

1.69

60000

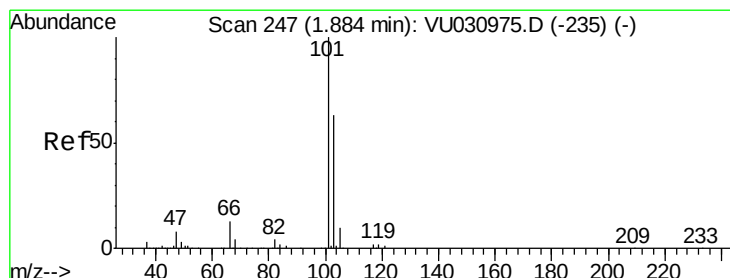
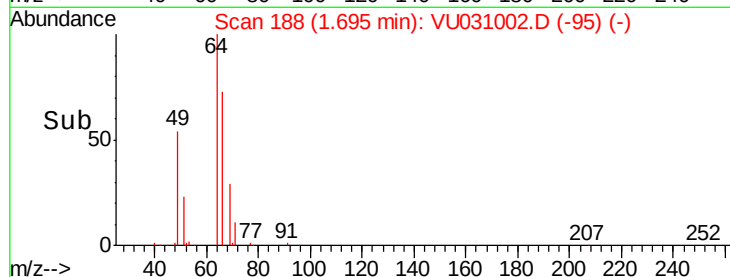
40000

20000

0

1.65 1.70 1.75 1.80

Time-->



#9

Trichlorofluoromethane

Concen: 5.754 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU031002.D

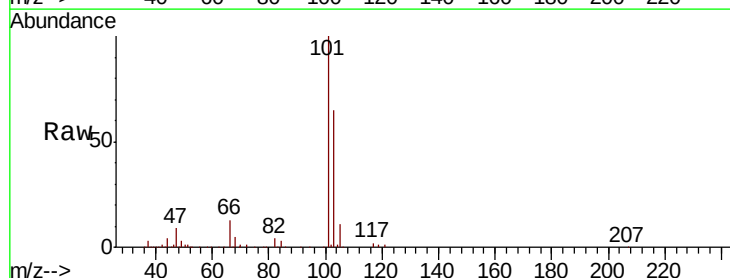
Acq: 10 Apr 2019 10:21

Tgt Ion: 101 Resp: 181130

Ion Ratio Lower Upper

101 100

103 65.4 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU031002.D (-154) (-)

Ion 103.00 (102.70 to 103.70): VU031002.D (-154) (-)

150000

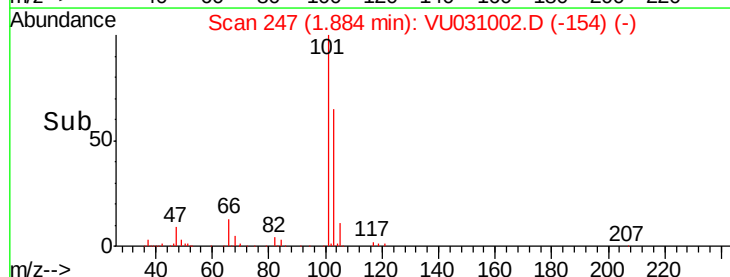
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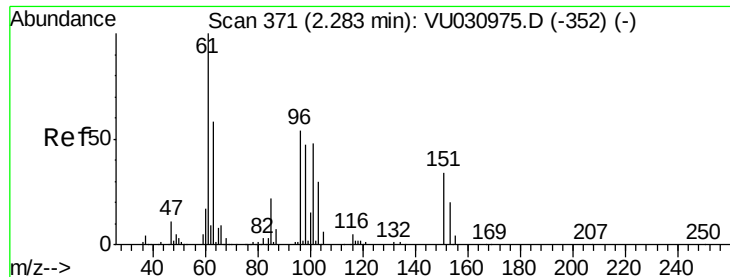
50000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 5.476 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

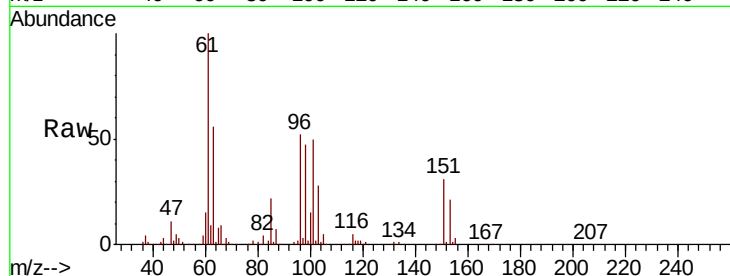
Tot Ion:101 Resp: 95874

Ion Ratio Lower Upper

101 100

85 46.2 35.3 52.9

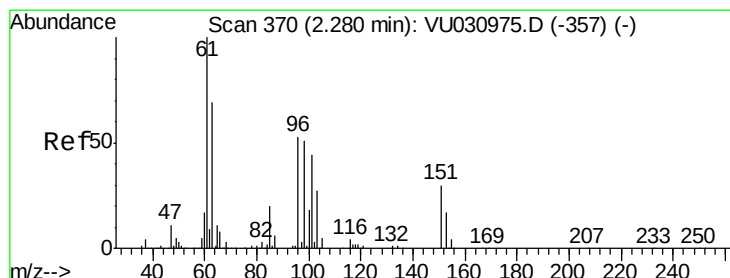
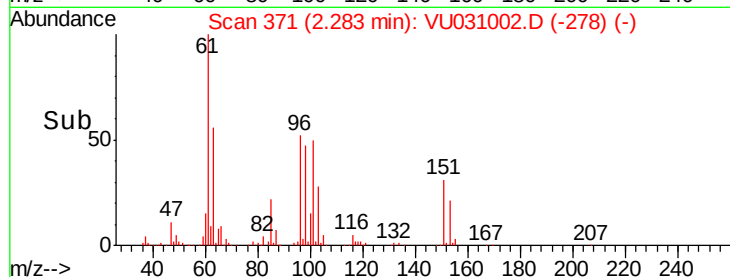
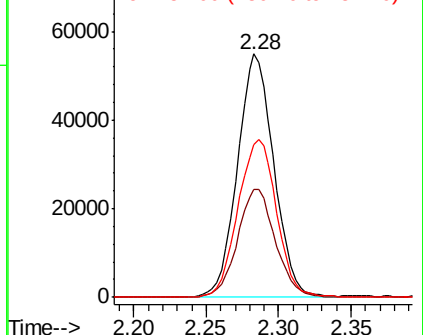
151 68.7 55.2 82.8



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: 5.311 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

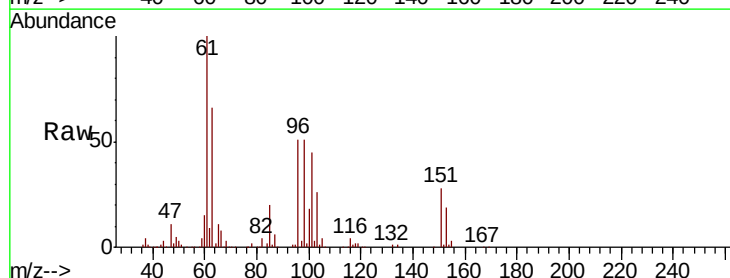
Tgt Ion: 96 Resp: 89954

Ion Ratio Lower Upper

96 100

61 194.4 136.9 254.3

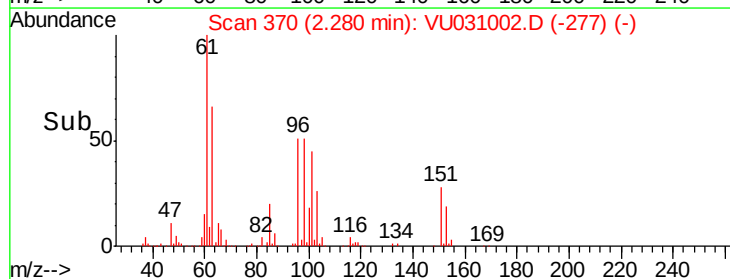
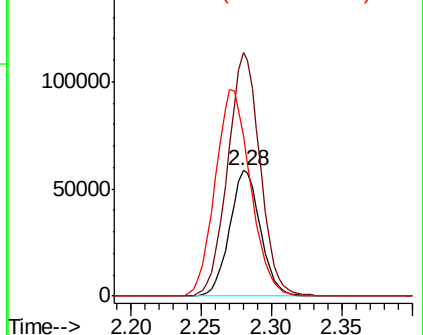
63 128.1 107.7 200.1

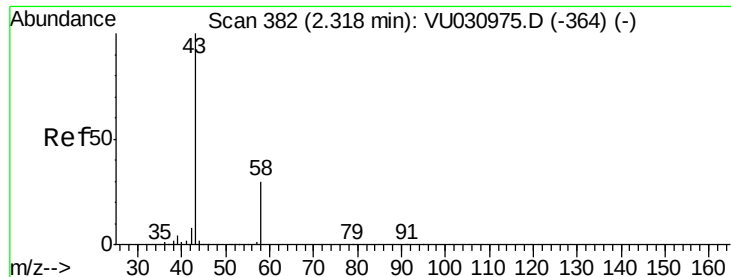


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 61.834 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampled :

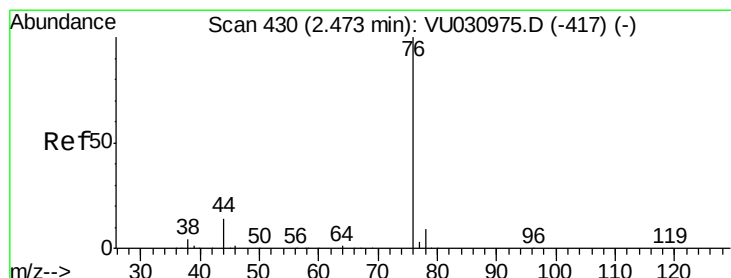
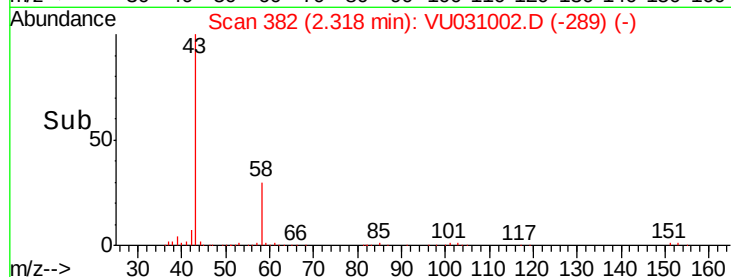
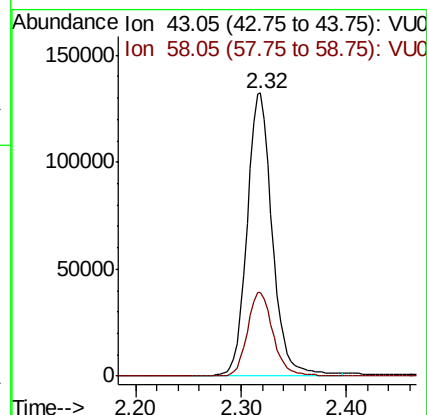
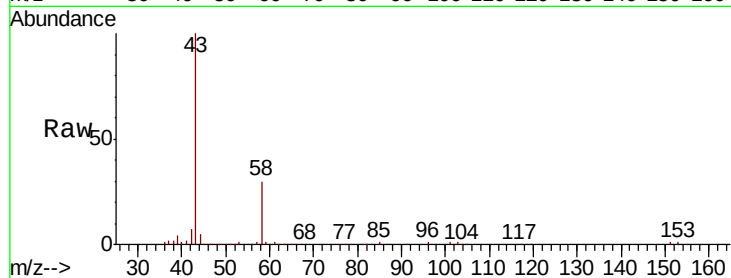
VSTD00516

Tot Ion: 43 Resp: 218502

Ion Ratio Lower Upper

43 100

58 30.1 0.0 62.8



#14

Carbon disulfide

Concen: 5.179 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031002.D

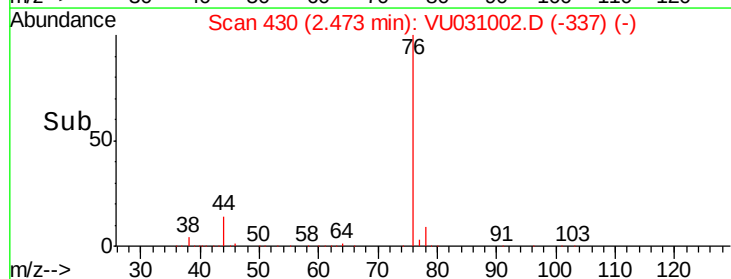
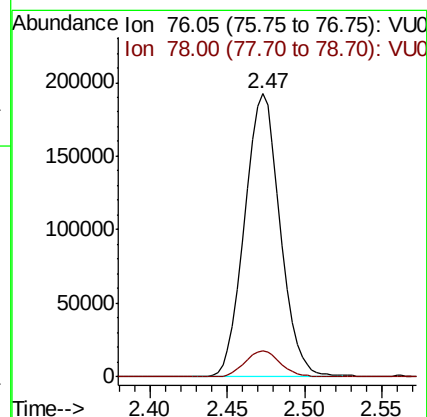
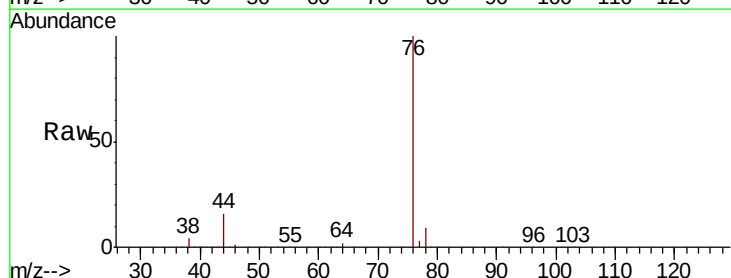
Acq: 10 Apr 2019 10:21

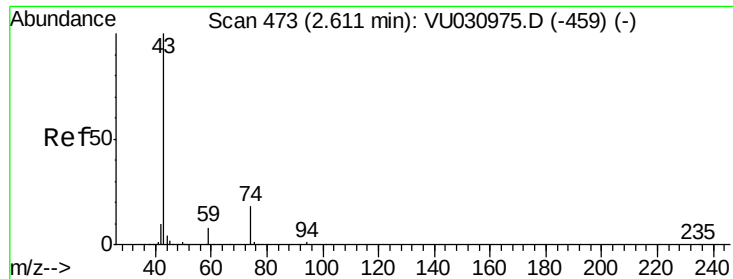
Tgt Ion: 76 Resp: 307628

Ion Ratio Lower Upper

76 100

78 9.4 7.5 11.3

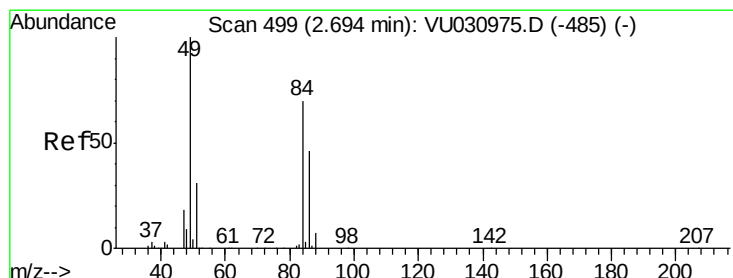
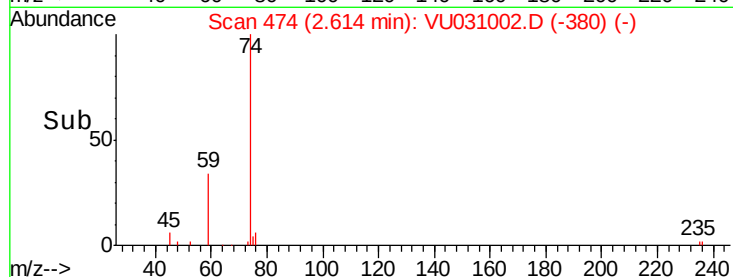
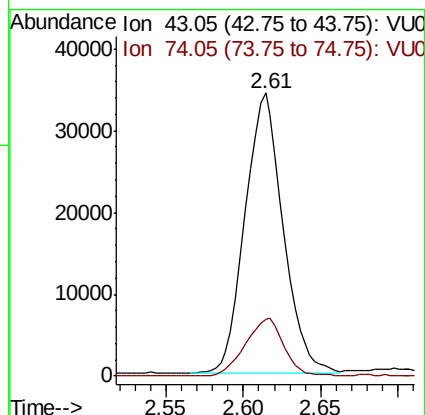
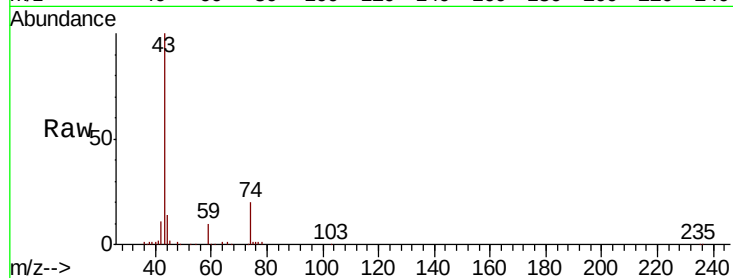




#15
Methyl Acetate
Concen: 6.422 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

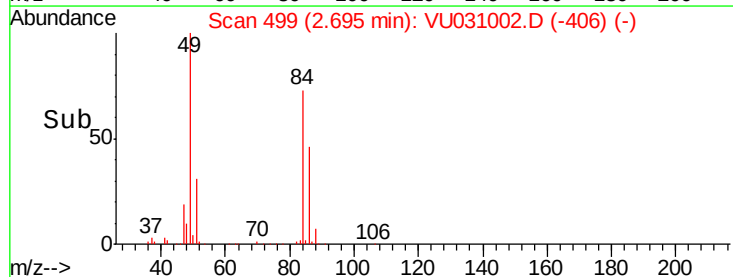
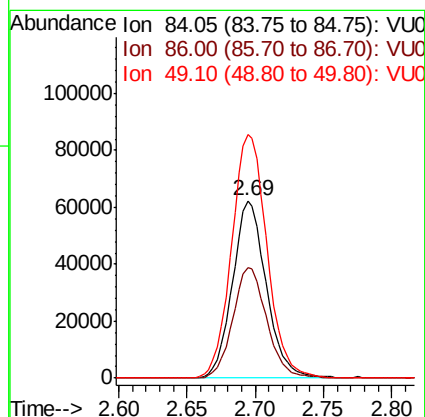
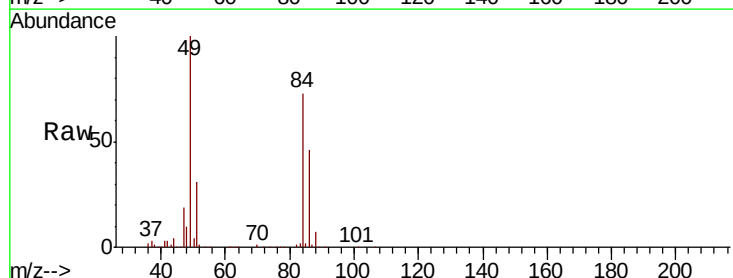
Instrument :
MSVOA_U
ClientSampleId :
VSTD00516

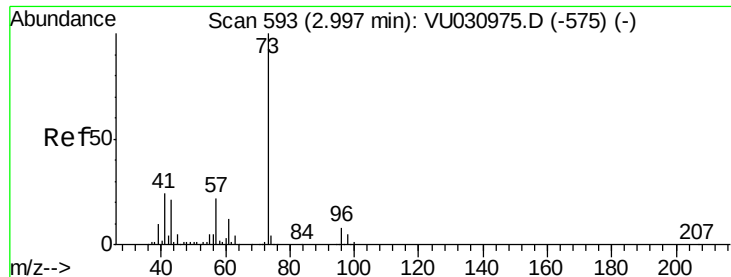
Tot Ion: 43 Resp: 58627
Ion Ratio Lower Upper
43 100
74 20.8 17.1 25.7



#16
Methylene chloride
Concen: 5.428 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Tgt Ion: 84 Resp: 107165
Ion Ratio Lower Upper
84 100
86 62.5 43.4 80.6
49 137.1 98.5 182.9

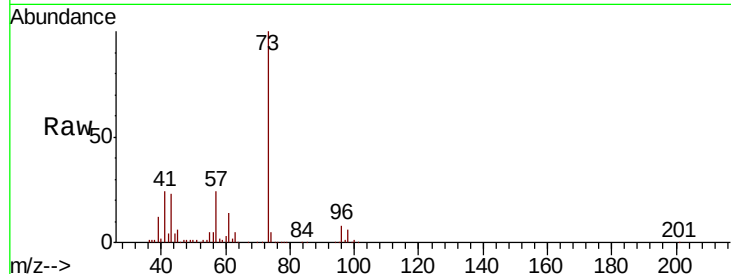




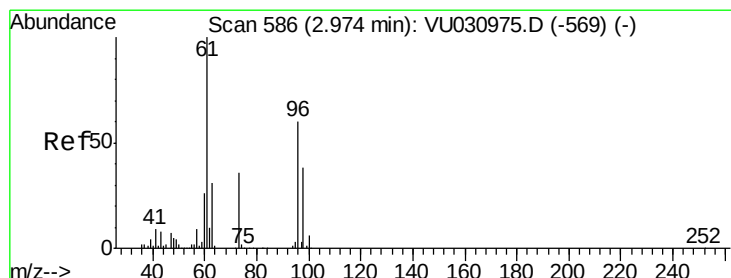
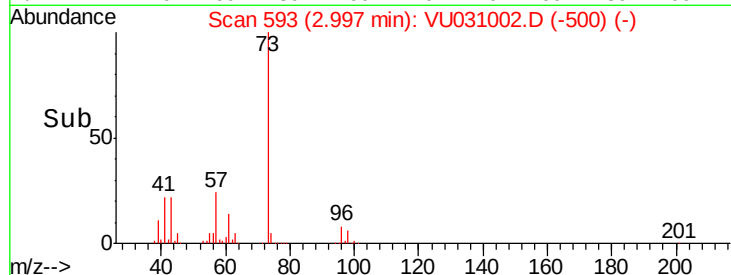
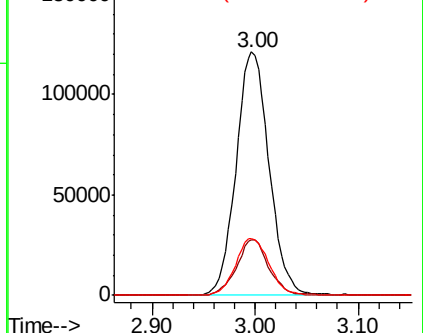
#17
Methyl tert-butyl Ether
Concen: 5.947 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD00516

Tot Ion	Ratio	Lower	Upper
73	100		
43	21.6	17.0	25.4
57	23.9	19.4	29.2

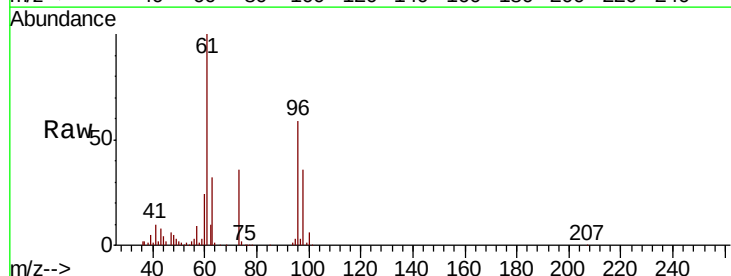


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

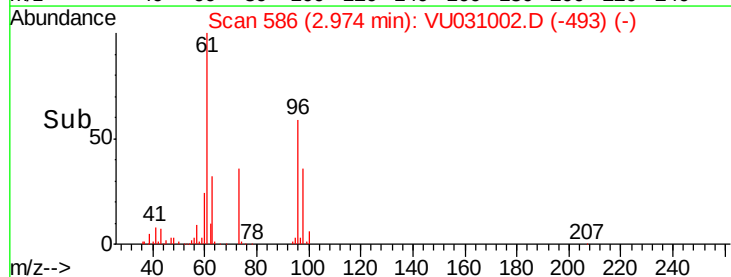
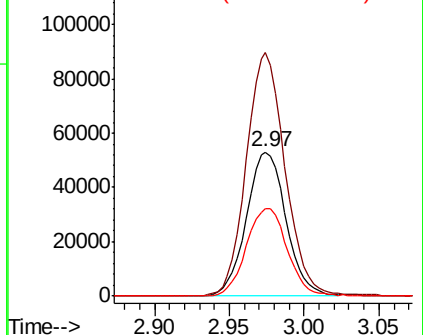


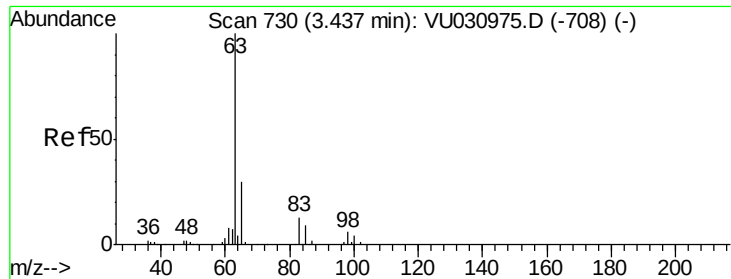
#18
trans-1,2-Dichloroethene
Concen: 5.463 ug/L
RT: 2.97 min Scan# 586
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.7	116.8	216.8
98	60.6	46.8	87.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

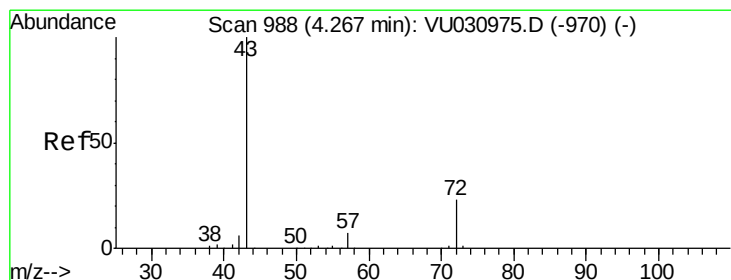
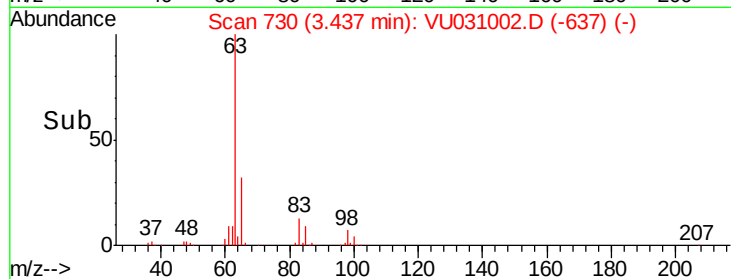
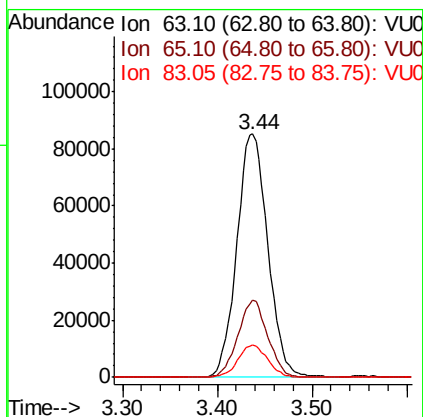
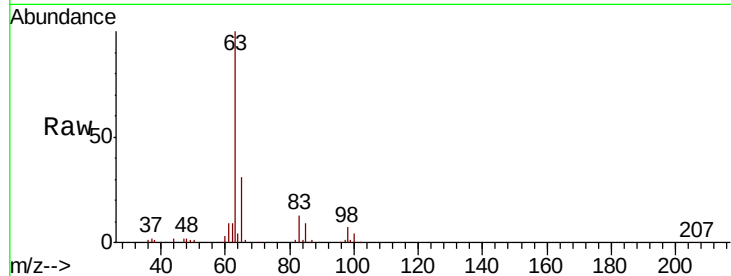




#19
 1,1-Dichloroethane
 Concen: 5.128 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

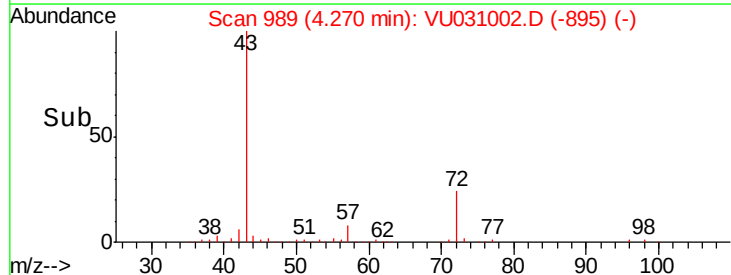
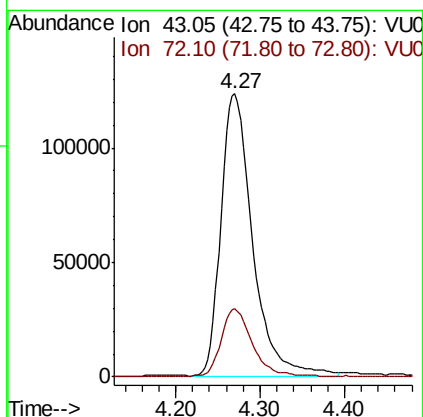
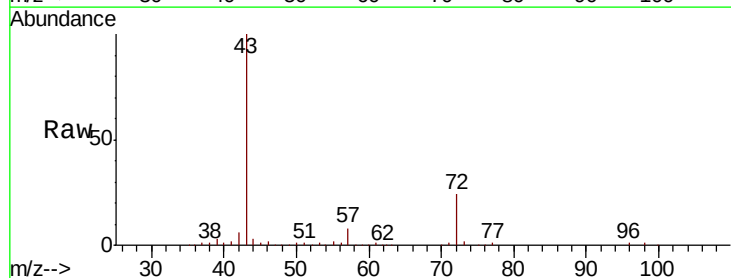
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00516

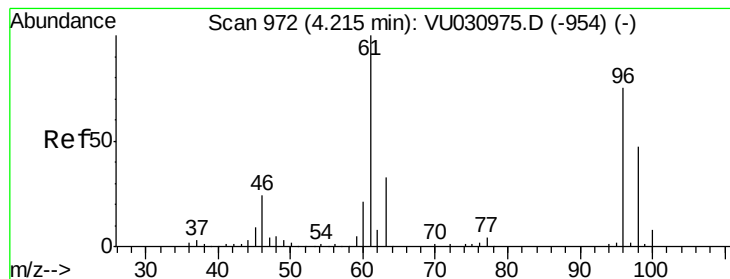
Tot Ion: 63 Resp: 193946
 Ion Ratio Lower Upper
 63 100
 65 31.5 21.6 40.0
 83 13.3 9.1 16.9



#21
 2-Butanone
 Concen: 57.277 ug/L
 RT: 4.27 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion: 43 Resp: 320771
 Ion Ratio Lower Upper
 43 100
 72 23.9 11.2 33.5



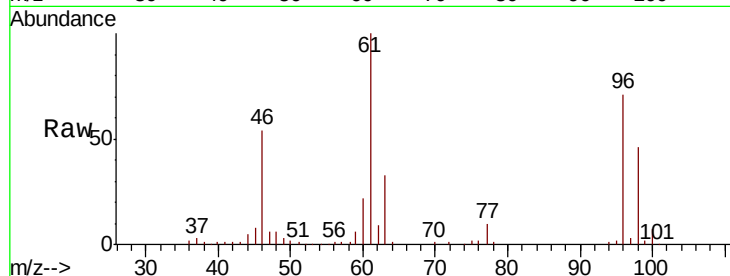


#22

cis-1,2-Dichloroethene
 Concen: 5.154 ug/L
 RT: 4.22 min Scan# 972
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.5	98.9	183.7
68	0.0	0.0	0.0

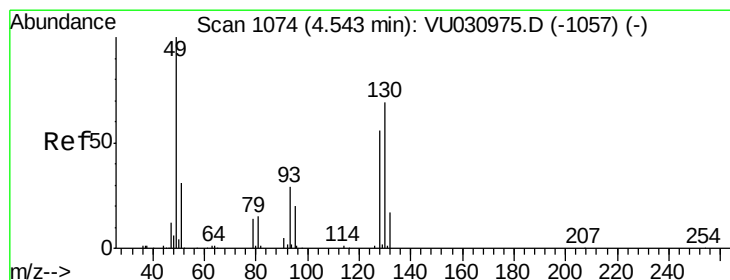
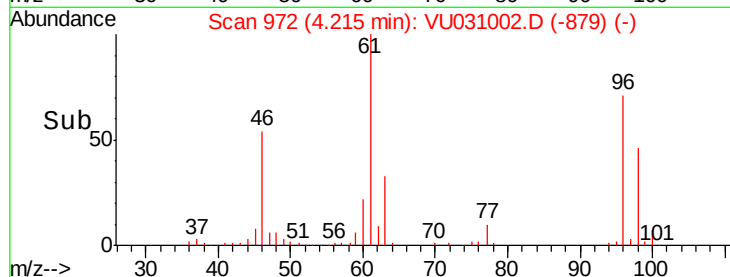
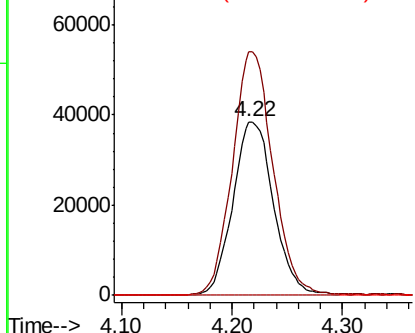


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane
 Concen: 6.027 ug/L
 RT: 4.54 min Scan# 1073
 Delta R.T. -0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion	Ratio	Lower	Upper
128	100		
49	192.8	140.6	261.2
130	125.6	87.3	162.1
51	59.8	51.8	77.6

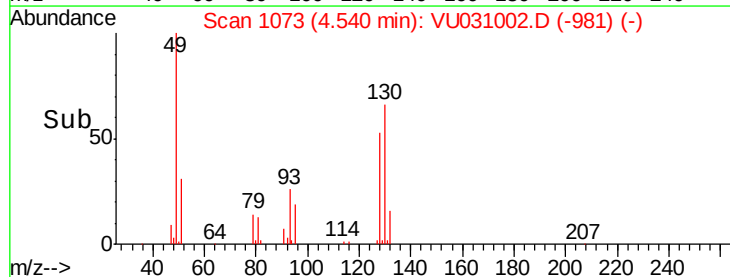
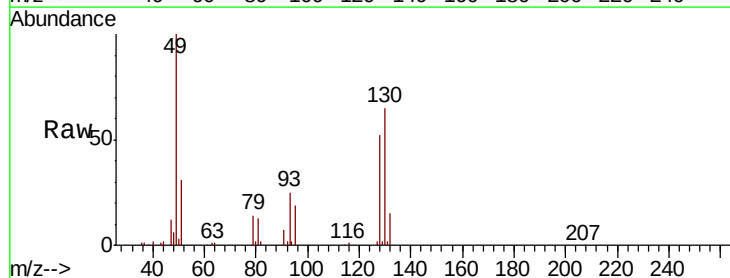
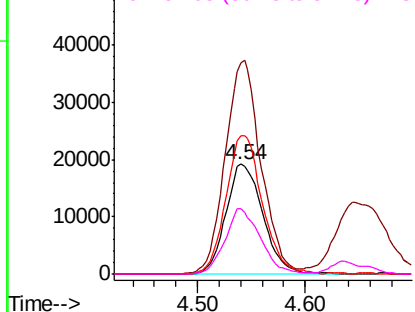
Abundance

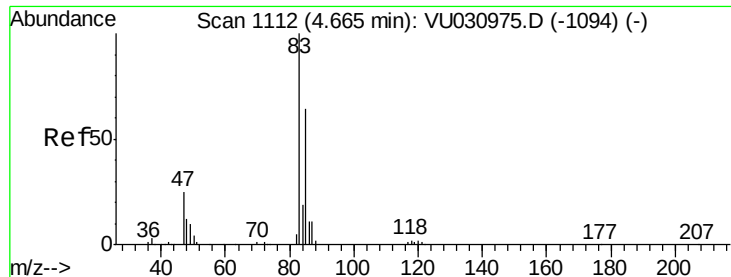
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

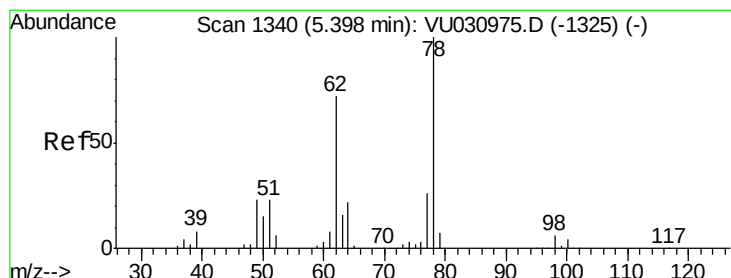
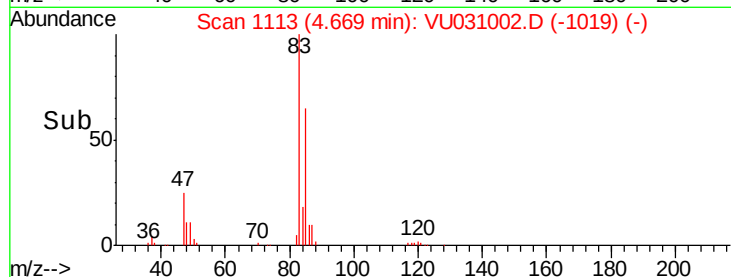
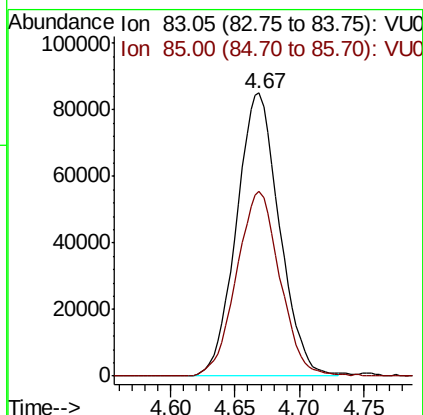
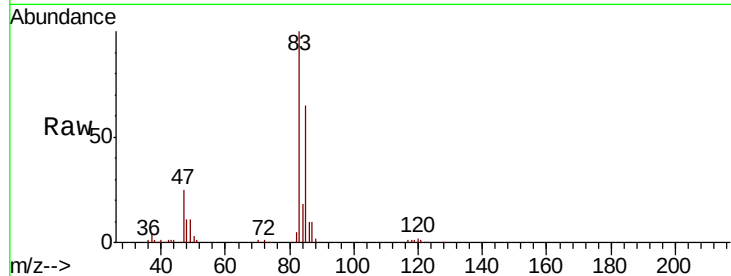




#25
Chloroform
Concen: 5.716 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

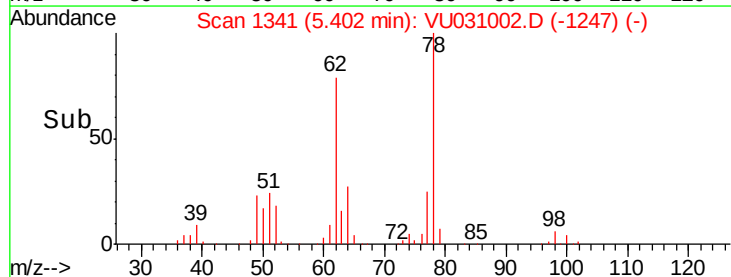
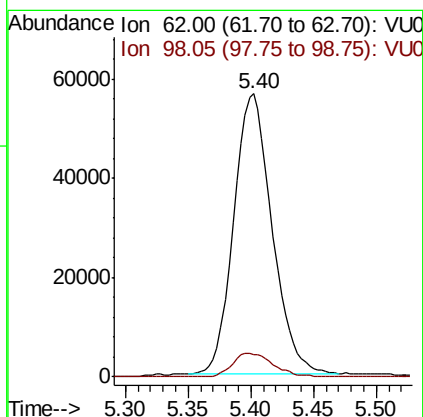
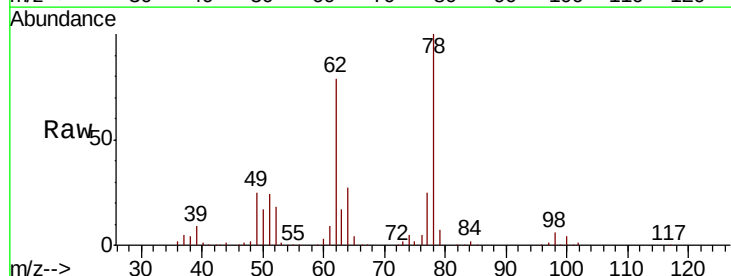
Instrument :
MSVOA_U
ClientSampleId :
VSTD00516

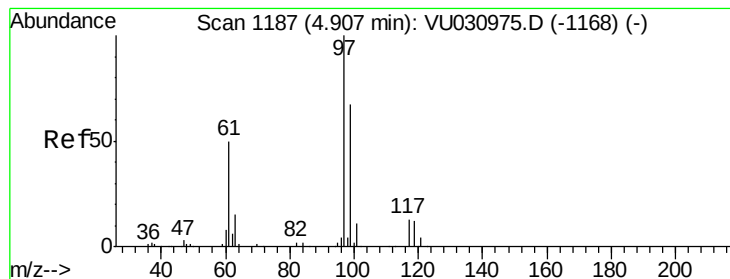
Tot Ion: 83 Resp: 197099
Ion Ratio Lower Upper
83 100
85 65.2 44.2 82.2



#27
1,2-Dichloroethane
Concen: 5.368 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Tgt Ion: 62 Resp: 120090
Ion Ratio Lower Upper
62 100
98 7.9 7.4 11.2





#29

1,1,1-Trichloroethane

Concen: 5.321 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

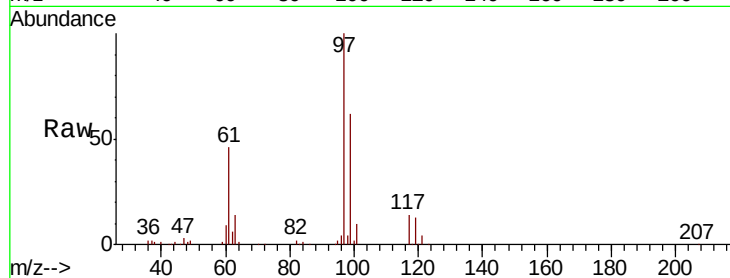
Tot Ion: 97 Resp: 157931

Ion Ratio Lower Upper

97 100

99 62.0 51.8 77.6

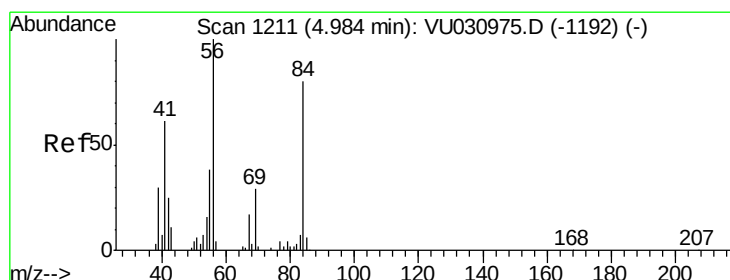
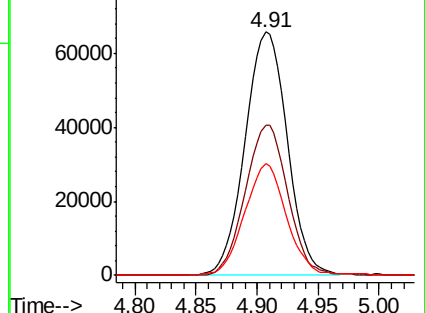
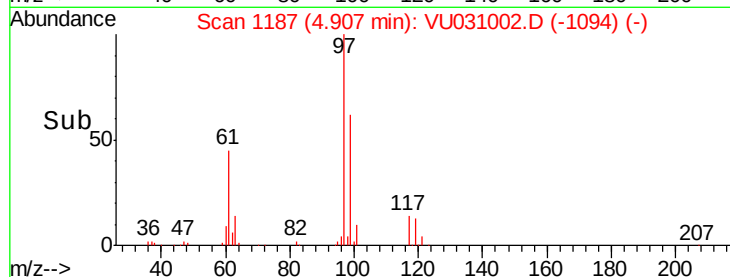
61 44.7 38.1 57.1



Abundance Ion 96.95 (96.65 to 97.65): VU030975.D (-1168) (-)

Ion 99.05 (98.75 to 99.75): VU030975.D (-1168) (-)

Ion 61.05 (60.75 to 61.75): VU030975.D (-1168) (-)



#30

Cyclohexane

Concen: 4.248 ug/L

RT: 4.99 min Scan# 1212

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

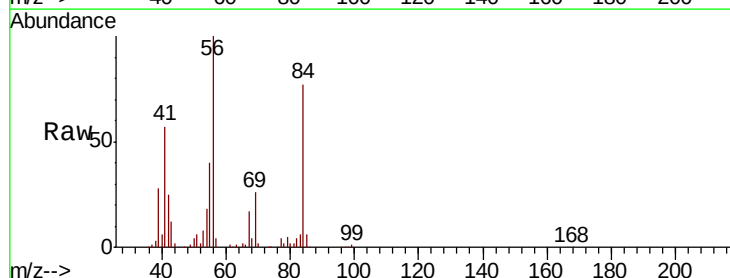
Tgt Ion: 56 Resp: 152216

Ion Ratio Lower Upper

56 100

69 28.9 22.3 33.5

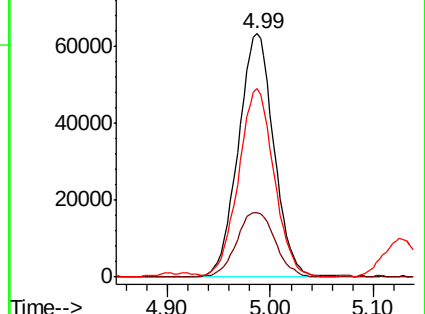
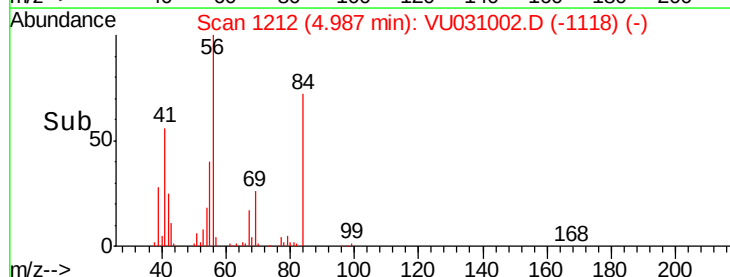
84 77.6 58.3 87.5

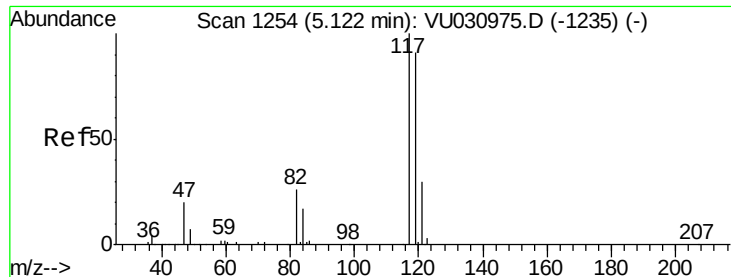


Abundance Ion 56.10 (55.80 to 56.80): VU030975.D (-1192) (-)

Ion 69.15 (68.85 to 69.85): VU030975.D (-1192) (-)

Ion 84.15 (83.85 to 84.85): VU030975.D (-1192) (-)





#31

Carbon tetrachloride

Concen: 5.465 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

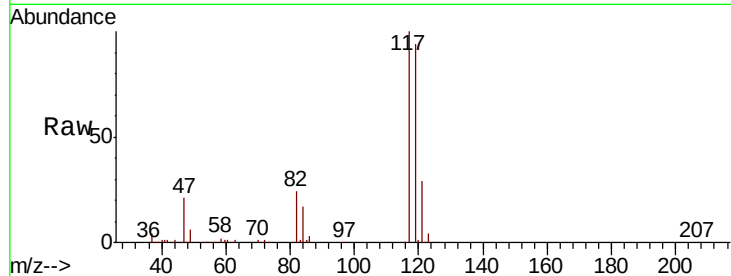
VSTD00516

Tot Ion:117 Resp: 136190

Ion Ratio Lower Upper

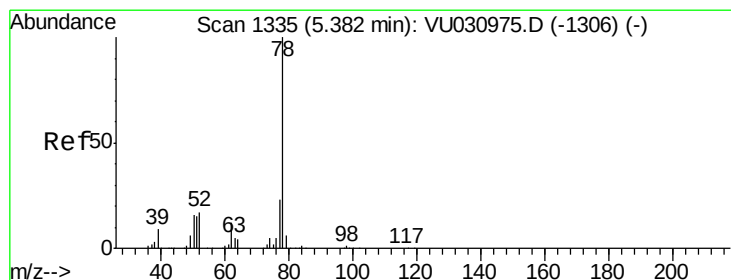
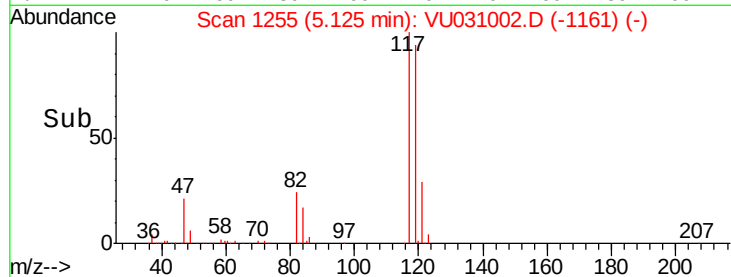
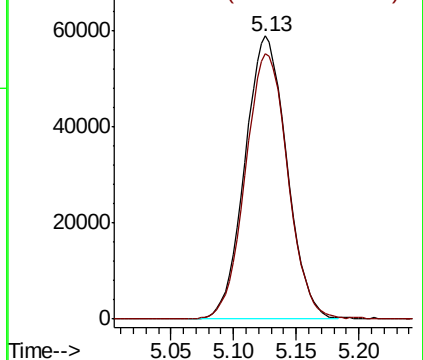
117 100

119 95.0 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.964 ug/L

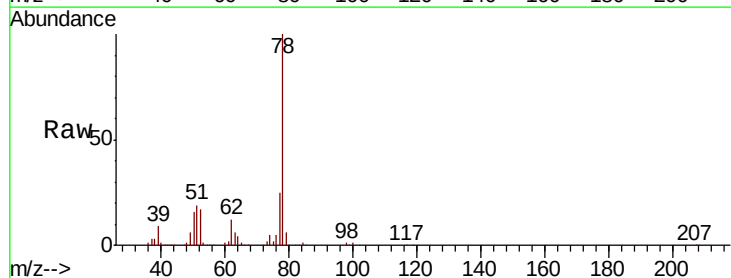
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

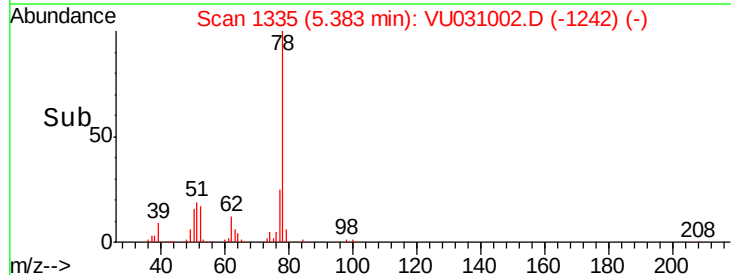
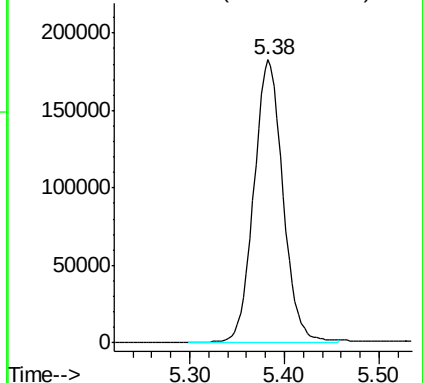
Lab File: VU031002.D

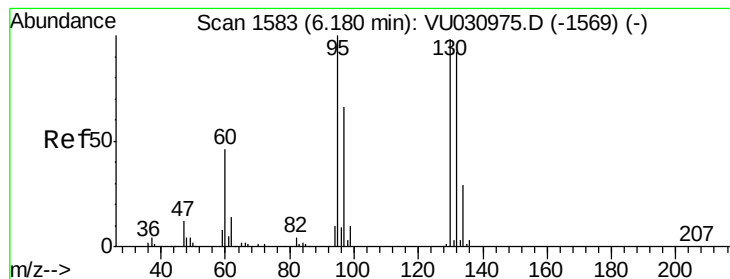
Acq: 10 Apr 2019 10:21

Tgt Ion: 78 Resp: 391278



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.909 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

Tot Ion: 95 Resp: 96857

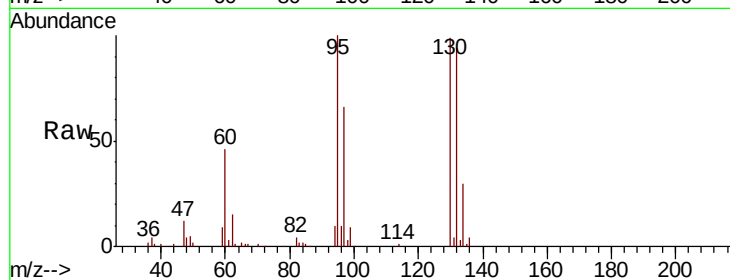
Ion Ratio Lower Upper

95 100

97 66.0 43.5 80.9

132 94.0 60.7 112.7

130 98.6 65.1 120.9

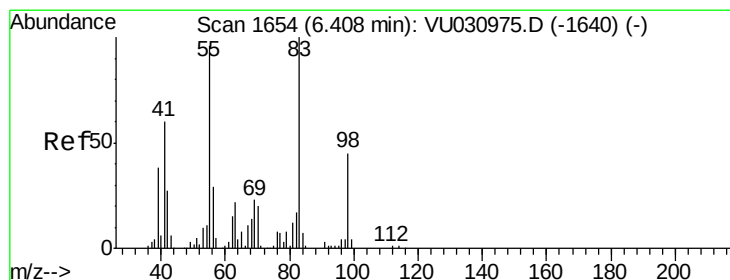
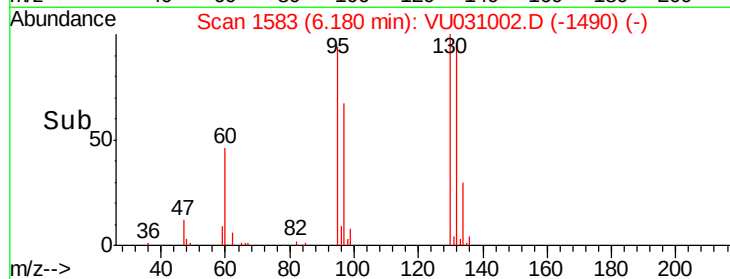
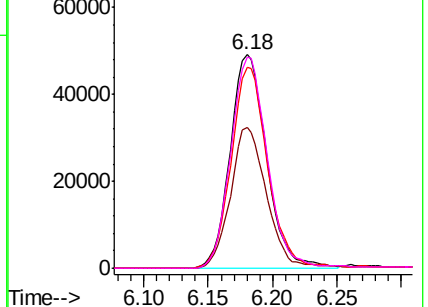


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.506 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

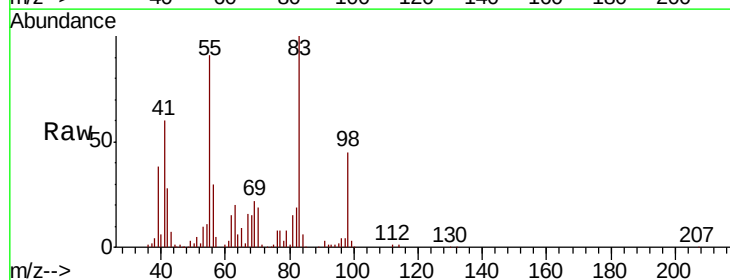
Tgt Ion: 83 Resp: 141887

Ion Ratio Lower Upper

83 100

55 90.9 72.6 108.8

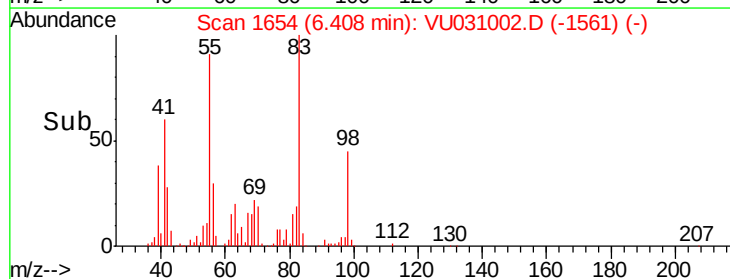
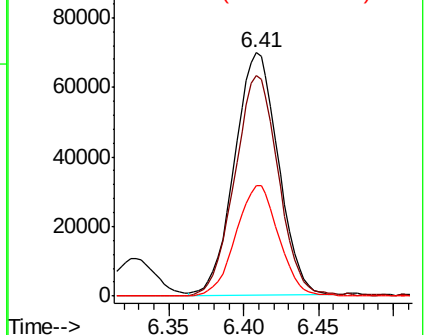
98 44.9 35.0 52.6

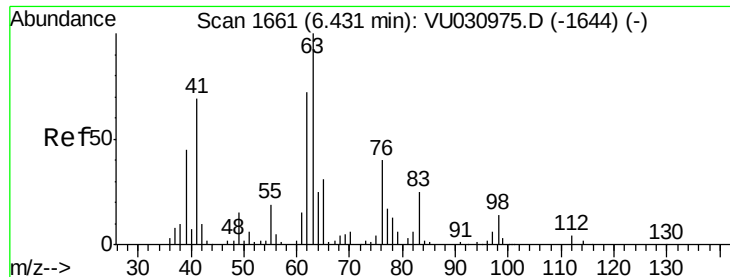


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

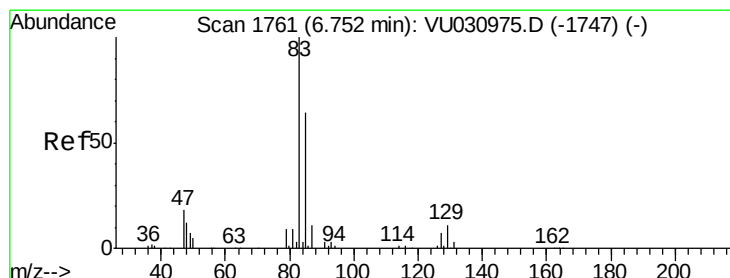
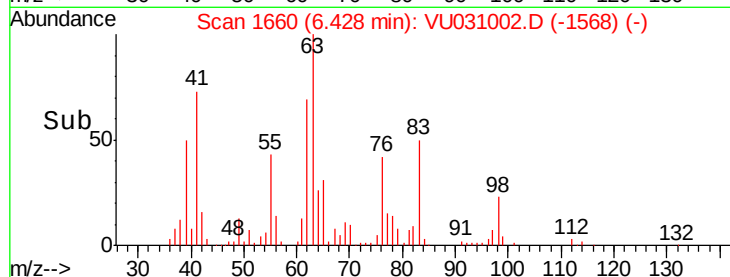
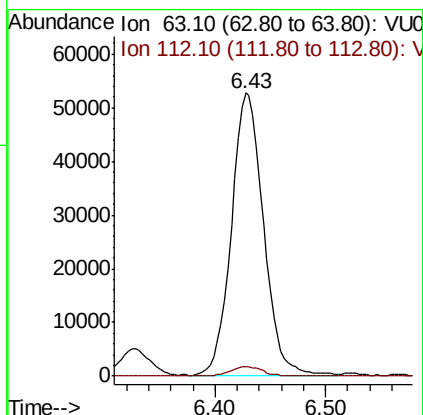
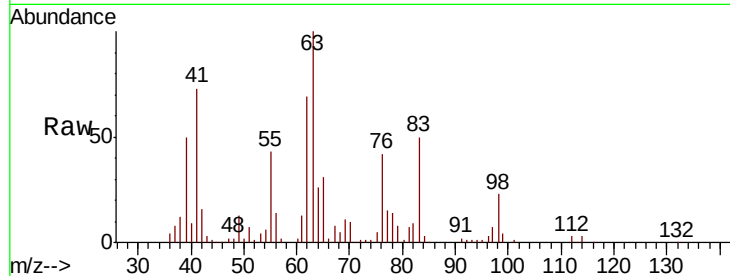




#37
 1,2-Dichloropropane
 Concen: 4.879 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

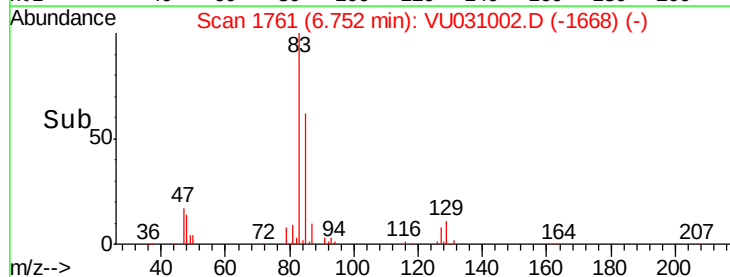
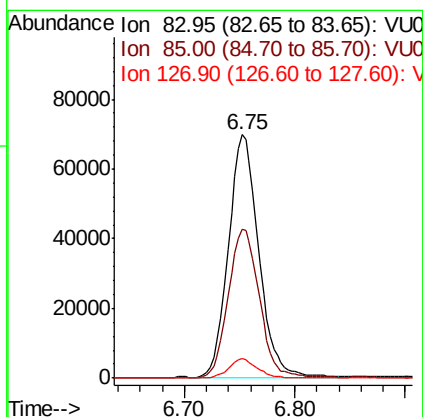
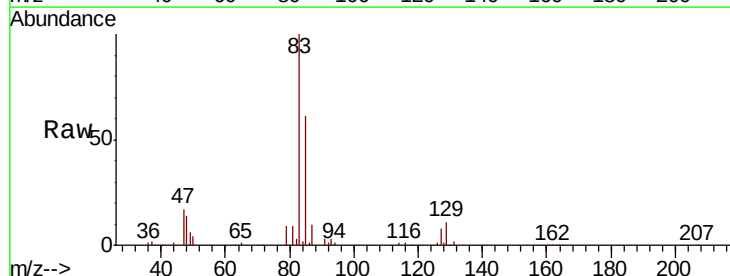
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

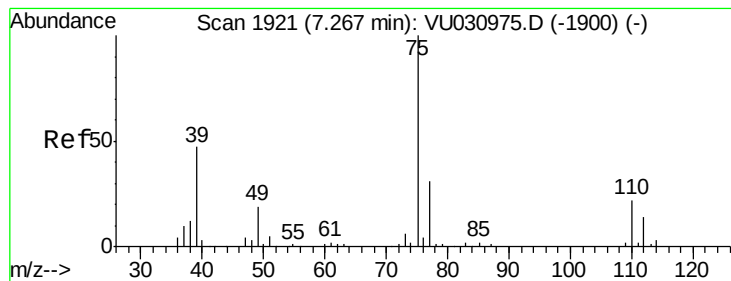
Tot Ion: 63 Resp: 105842
 Ion Ratio Lower Upper
 63 100
 112 3.5 2.8 4.2



#38
 Bromodichloromethane
 Concen: 5.215 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion: 83 Resp: 132088
 Ion Ratio Lower Upper
 83 100
 85 61.0 45.1 83.9
 127 8.1 6.5 9.7



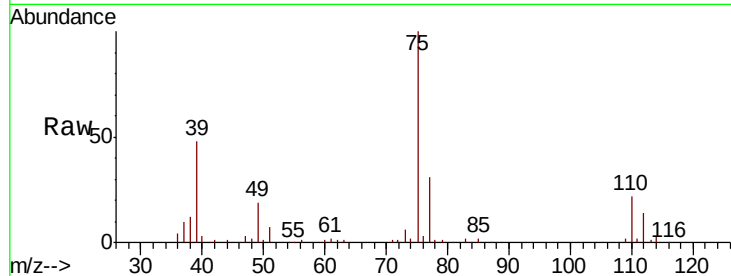


#39

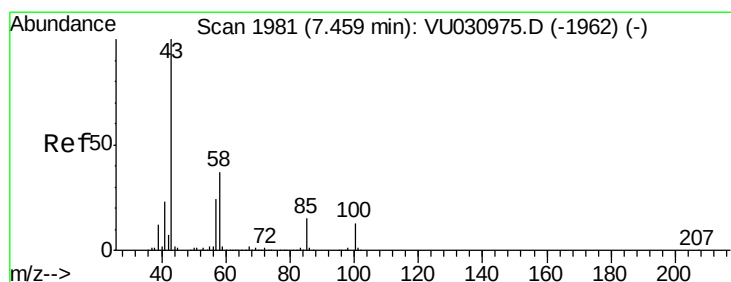
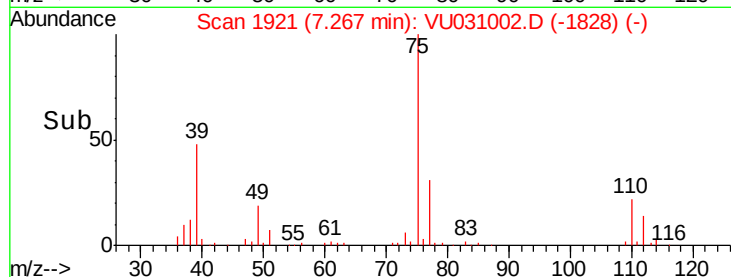
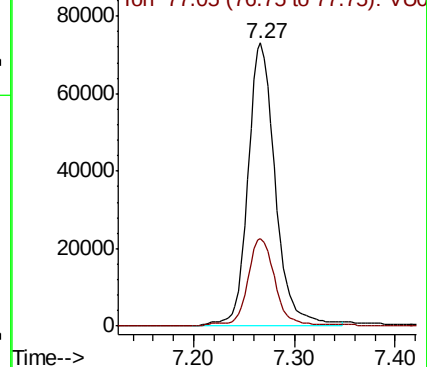
cis-1,3-Dichloropropene
 Concen: 4.728 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

Tot Ion: 75 Resp: 137151
 Ion Ratio Lower Upper
 75 100
 77 31.1 22.3 41.5



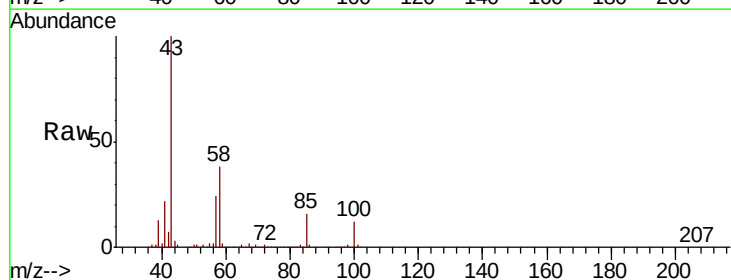
Abundance Ion 75.05 (74.75 to 75.75): VU030975.D (-1900) (-)
 Ion 77.05 (76.75 to 77.75): VU030975.D (-1900) (-)



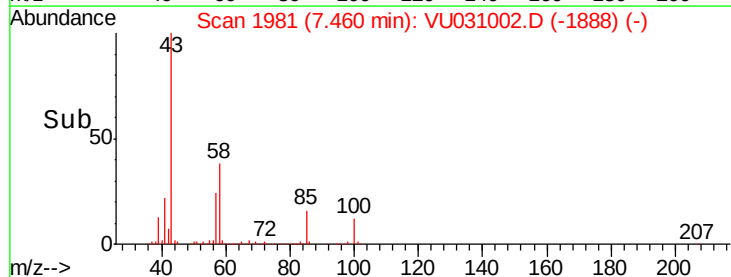
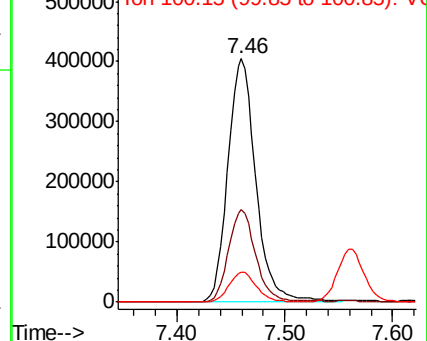
#40

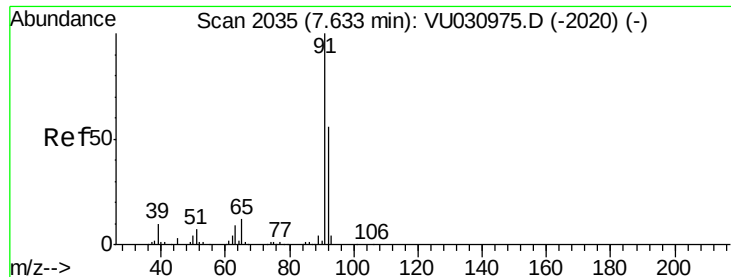
4-Methyl-2-pentanone
 Concen: 54.181 ug/L
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion: 43 Resp: 733140
 Ion Ratio Lower Upper
 43 100
 58 37.2 29.4 44.2
 100 12.2 9.2 13.8



Abundance Ion 43.05 (42.75 to 43.75): VU030975.D (-1962) (-)
 Ion 58.05 (57.75 to 58.75): VU030975.D (-1962) (-)
 Ion 100.15 (99.85 to 100.85): VU030975.D (-1962) (-)





#42

Toluene

Concen: 5.176 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

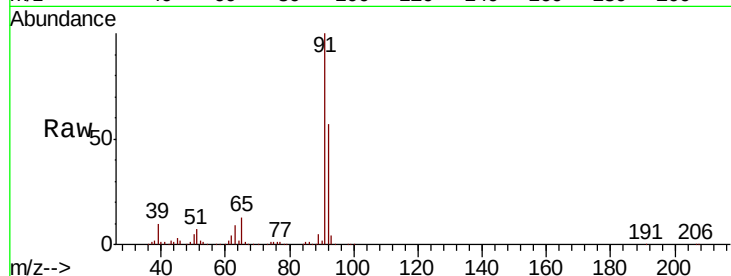
VSTD00516

Tot Ion: 91 Resp: 409117

Ion Ratio Lower Upper

91 100

92 56.7 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU031002.D (-1942) (-)

Ion 92.15 (91.85 to 92.85): VU031002.D (-1942) (-)

7.63

250000

200000

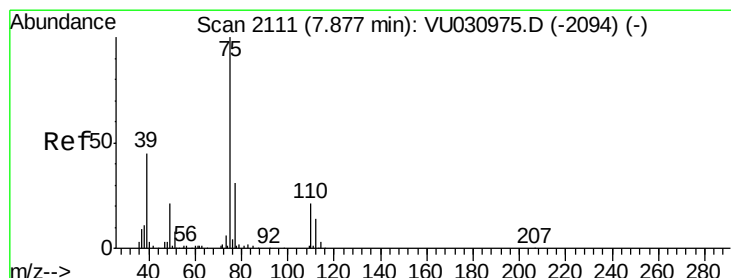
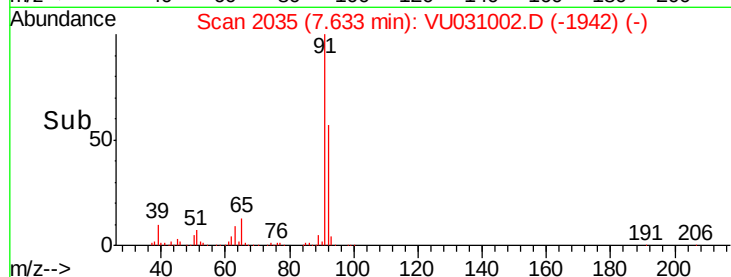
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.194 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031002.D

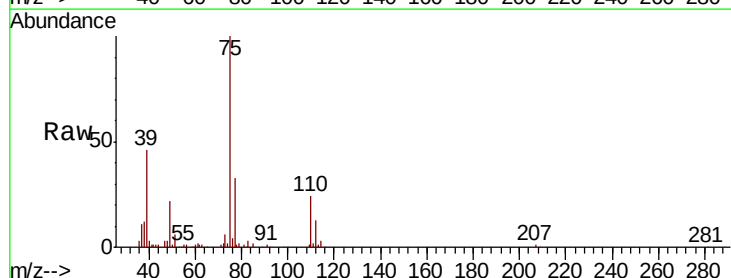
Acq: 10 Apr 2019 10:21

Tgt Ion: 75 Resp: 116616

Ion Ratio Lower Upper

75 100

77 32.6 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU031002.D (-2018) (-)

Ion 77.05 (76.75 to 77.75): VU031002.D (-2018) (-)

7.88

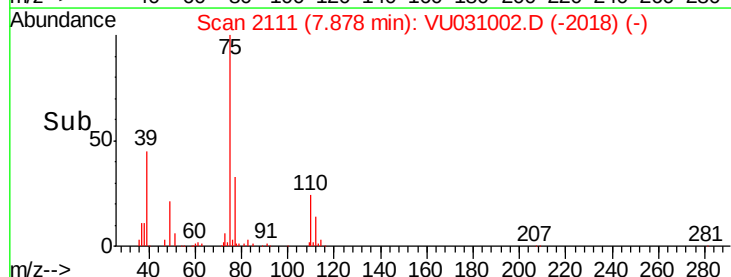
60000

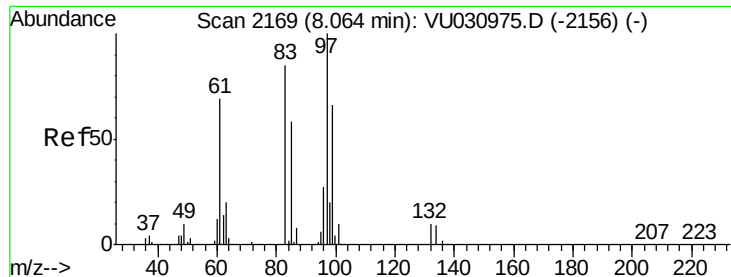
40000

20000

0

Time-->

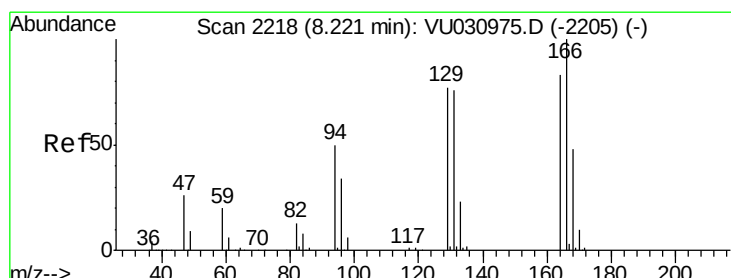
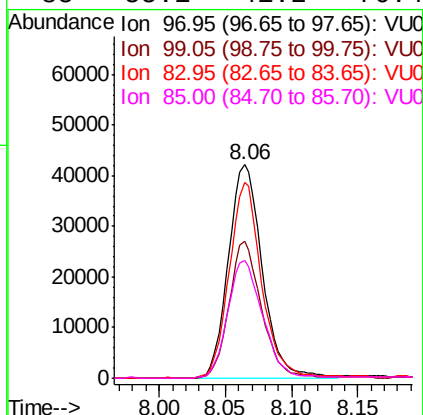
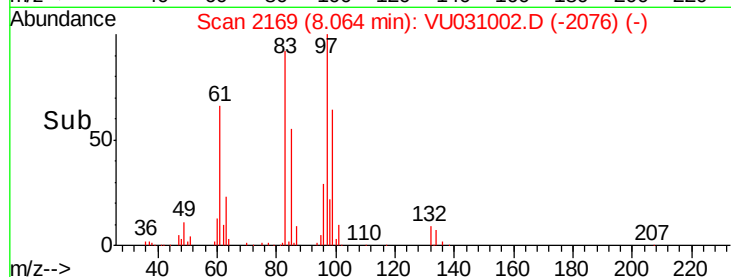
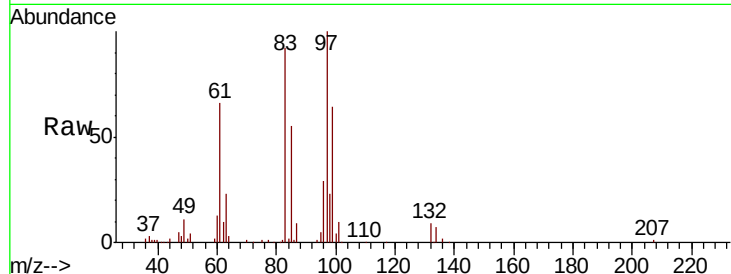




#45
 1,1,2-Trichloroethane
 Concen: 5.814 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

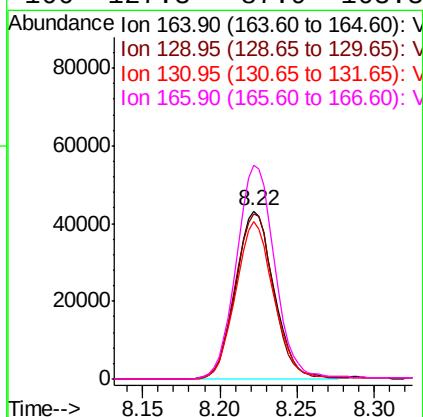
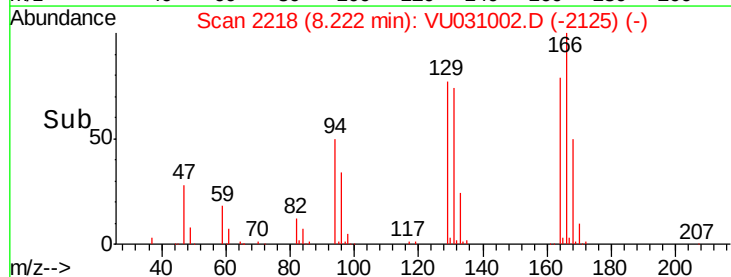
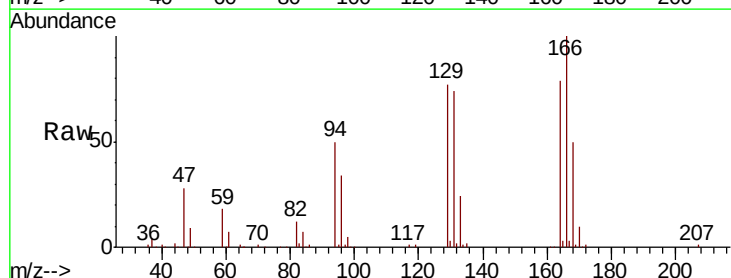
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

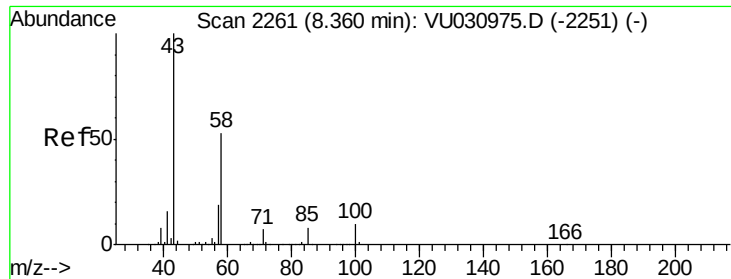
Tot Ion:	97	Resp:	75198
Ion	Ratio	Lower	Upper
97	100		
99	64.4	45.3	84.1
83	91.5	66.5	123.5
85	55.1	41.2	76.4



#47
 Tetrachloroethene
 Concen: 5.393 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion:	164	Resp:	74636
Ion	Ratio	Lower	Upper
164	100		
129	98.5	70.1	130.1
131	93.7	67.8	125.8
166	127.3	87.9	163.3

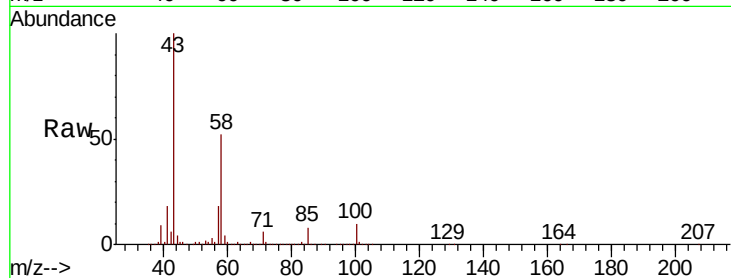




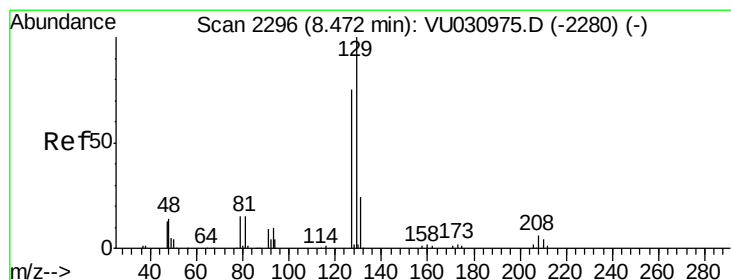
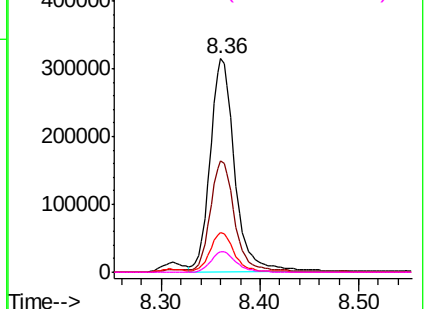
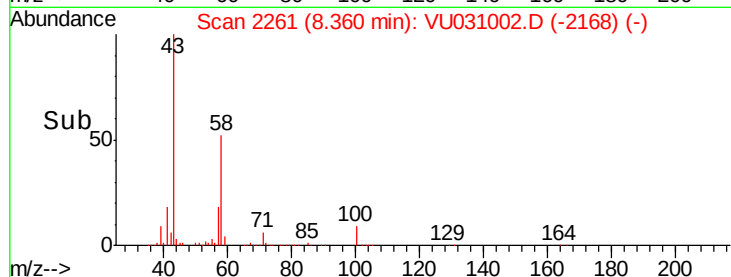
#48
2-Hexanone
Concen: 57.802 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Instrument :
MSVOA_U
ClientSampleId :
VSTD00516

Tot Ion: 43 Resp: 541937
Ion Ratio Lower Upper
43 100
58 51.7 42.5 63.7
57 18.3 13.9 20.9
100 9.7 7.1 10.7

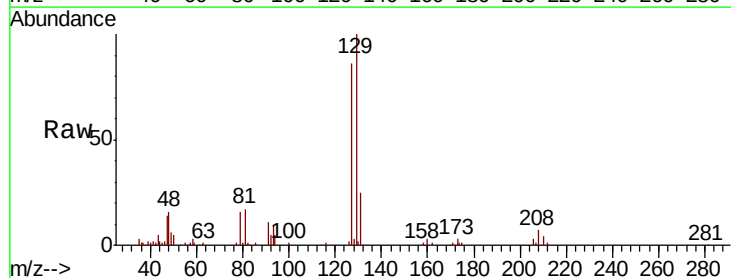


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

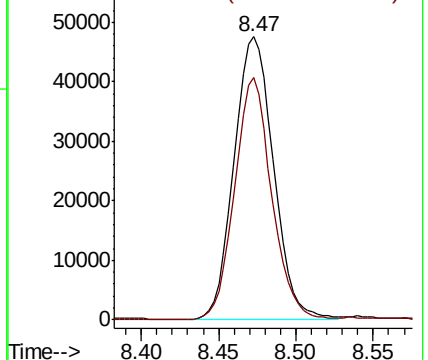
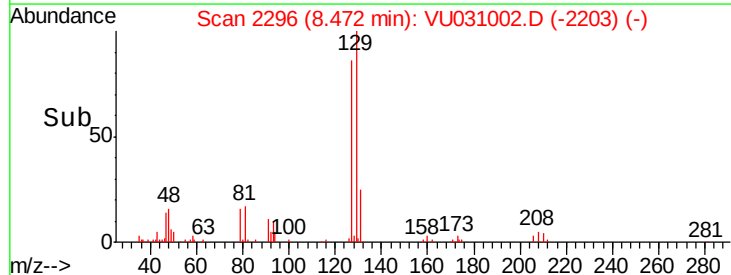


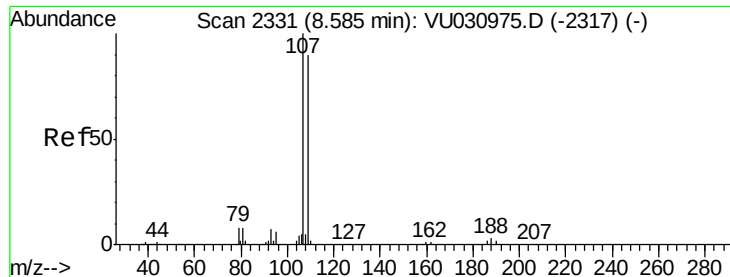
#49
Dibromochloromethane
Concen: 5.470 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Tgt Ion: 129 Resp: 84611
Ion Ratio Lower Upper
129 100
127 85.9 51.1 94.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

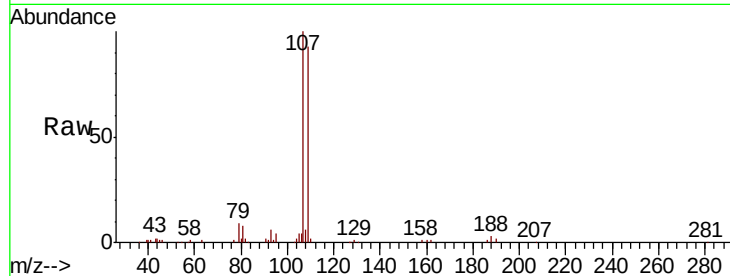




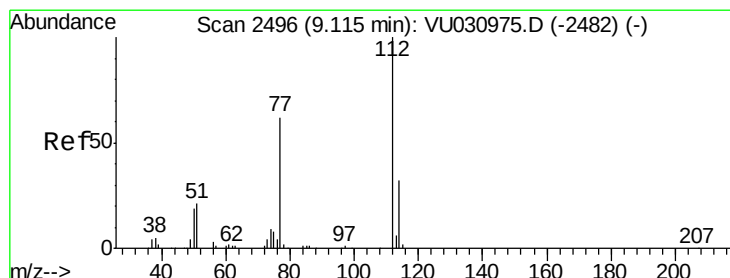
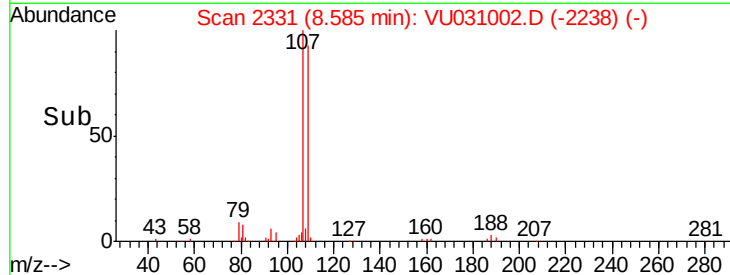
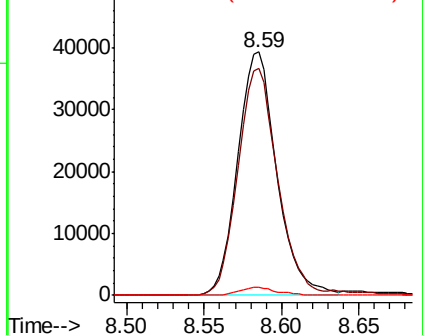
#50
 1,2-Dibromoethane
 Concen: 5.733 ug/L
 RT: 8.59 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.3	65.6	121.8
188	3.2	2.9	4.3

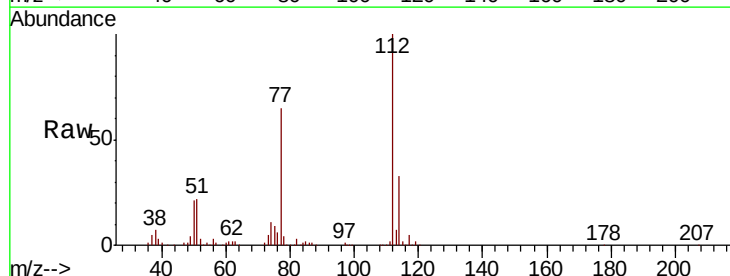


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

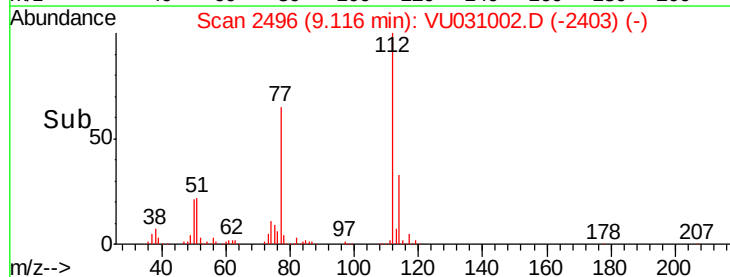
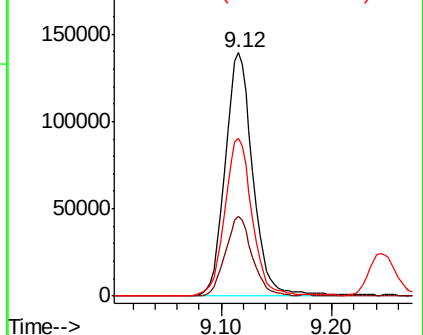


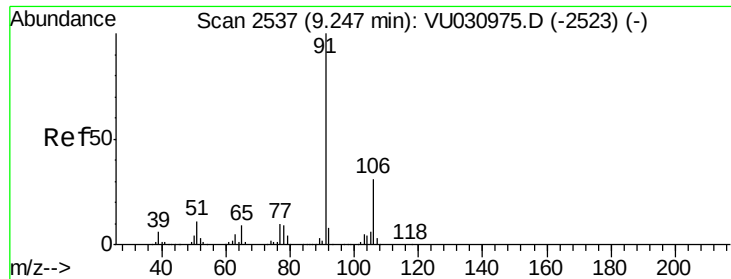
#51
 Chlorobenzene
 Concen: 4.974 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.8	22.3	41.5
77	64.8	51.0	76.6



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.892 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

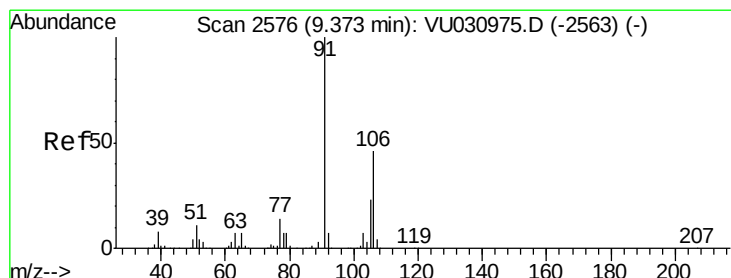
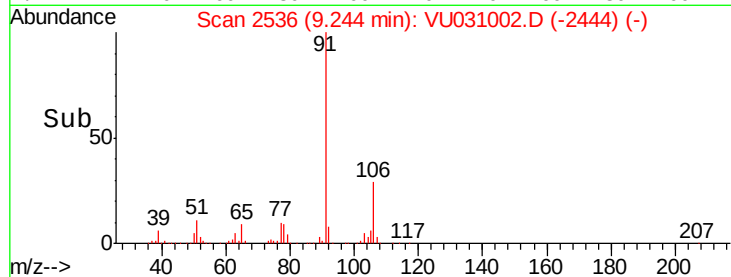
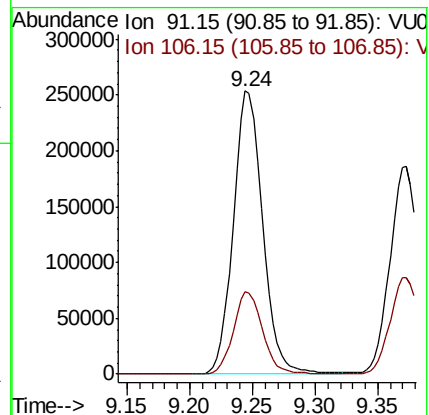
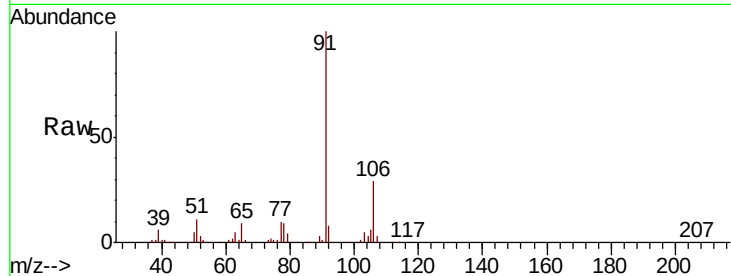
VSTD00516

Tot Ion: 91 Resp: 412410

Ion Ratio Lower Upper

91 100

106 29.2 20.2 37.4



#53

m,p-Xylene

Concen: 5.039 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031002.D

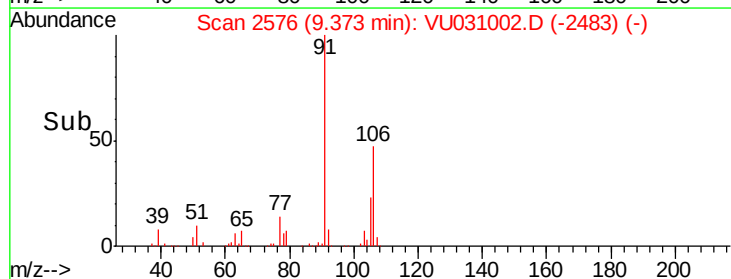
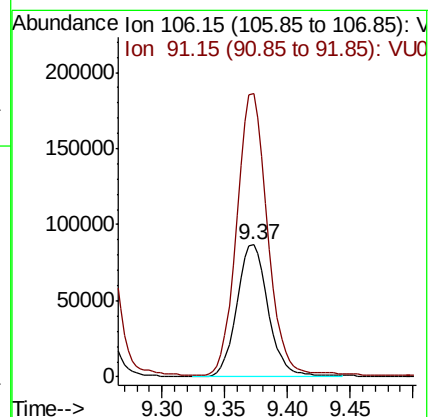
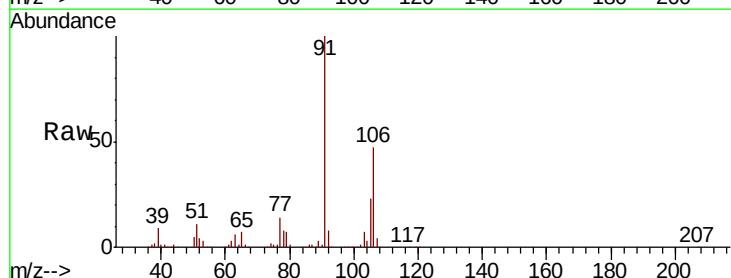
Acq: 10 Apr 2019 10:21

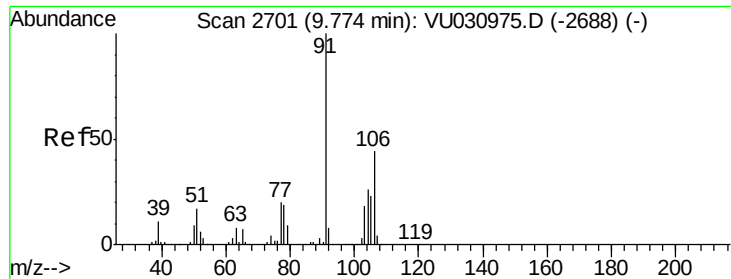
Tgt Ion: 106 Resp: 148403

Ion Ratio Lower Upper

106 100

91 214.2 147.4 273.8

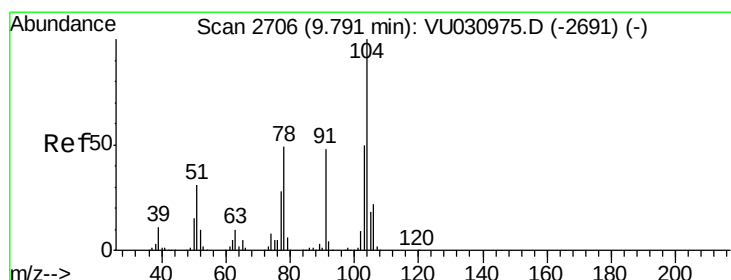
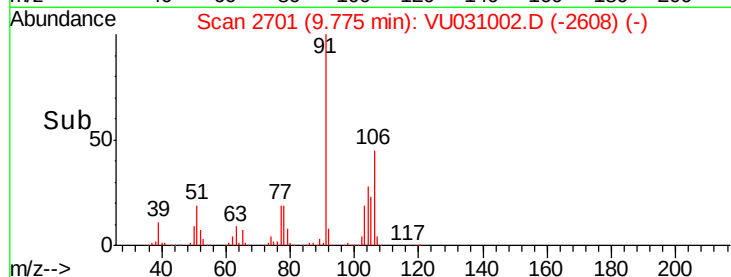
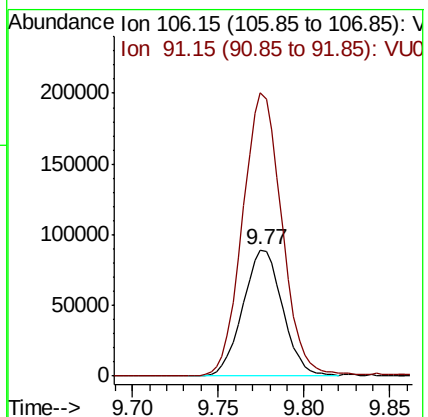
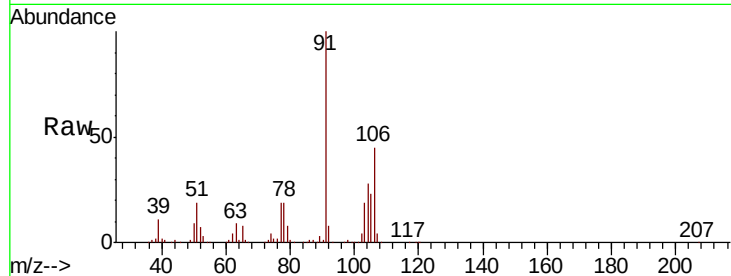




#54
o-Xylene
Concen: 4.963 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

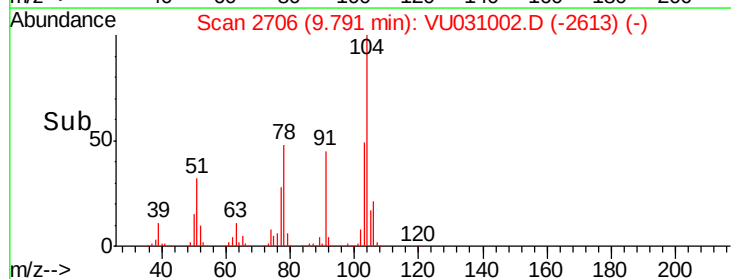
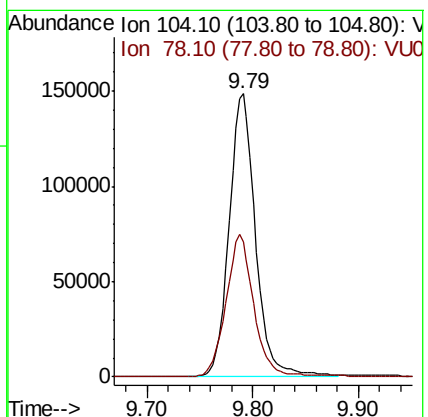
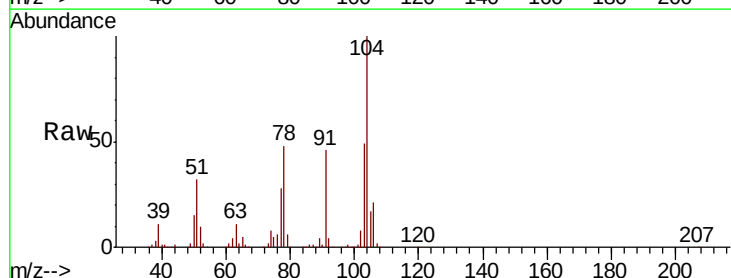
Instrument :
MSVOA_U
ClientSampleId :
VSTD00516

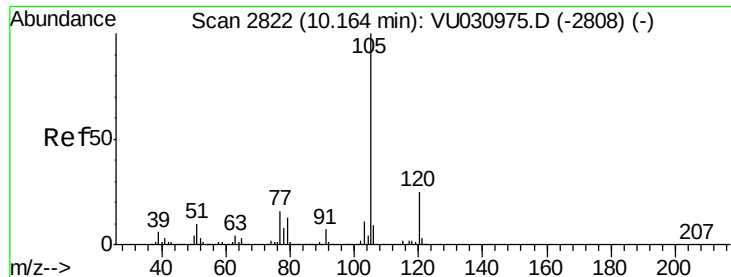
Tot Ion:106 Resp: 143317
Ion Ratio Lower Upper
106 100
91 224.4 161.3 299.7



#55
Styrene
Concen: 5.276 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. 0.00 min
Lab File: VU031002.D
Acq: 10 Apr 2019 10:21

Tgt Ion:104 Resp: 257075
Ion Ratio Lower Upper
104 100
78 47.8 34.4 63.8





#56

Isopropylbenzene

Concen: 4.960 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

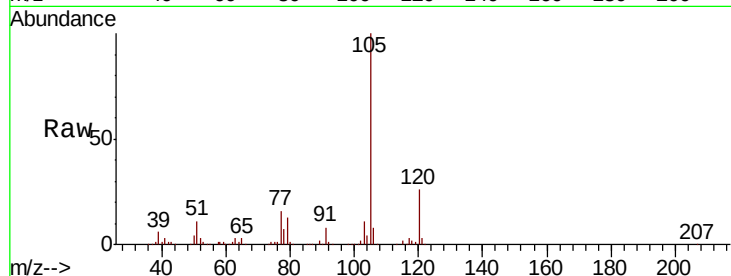
Tot Ion:105 Resp: 382652

Ion Ratio Lower Upper

105 100

120 25.3 20.5 30.7

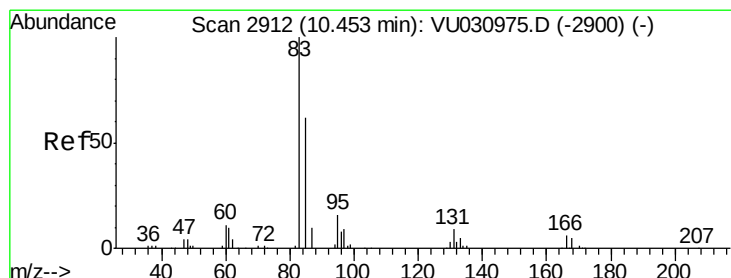
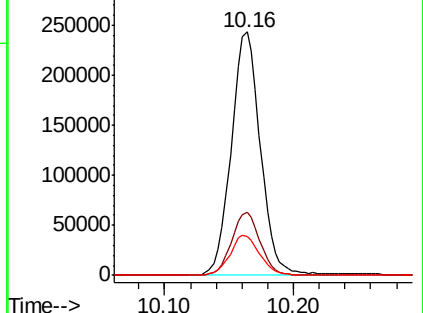
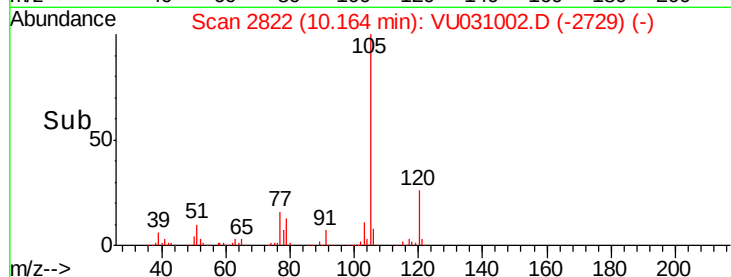
77 16.6 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.624 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

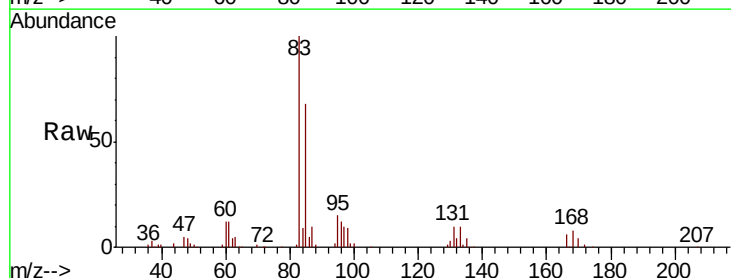
Tgt Ion: 83 Resp: 96716

Ion Ratio Lower Upper

83 100

85 67.8 44.4 82.5

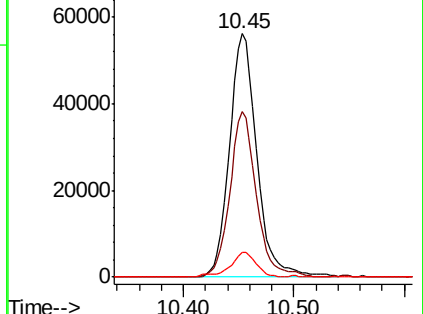
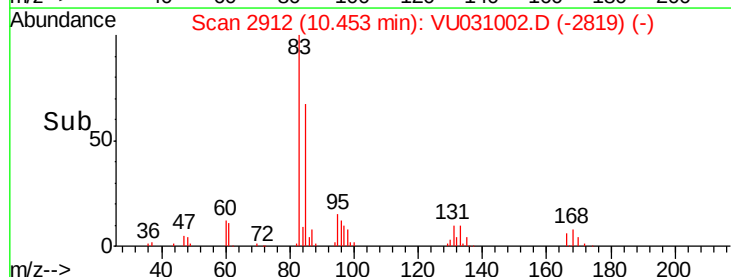
131 10.4 7.4 11.2

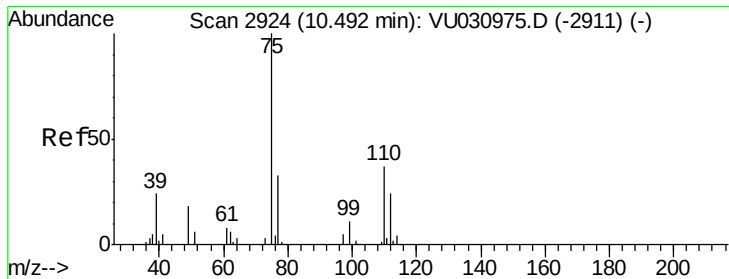


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

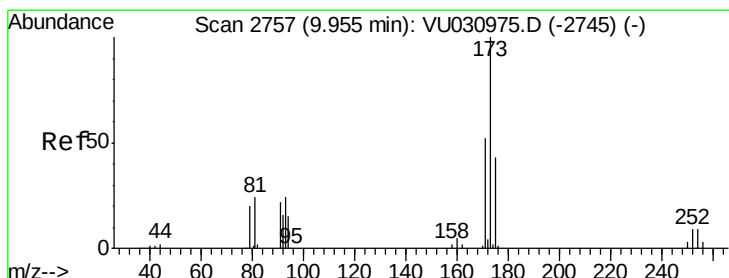
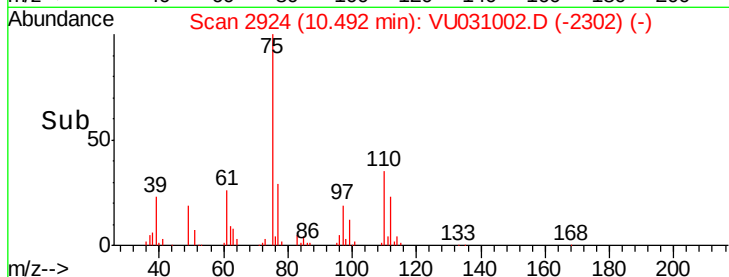
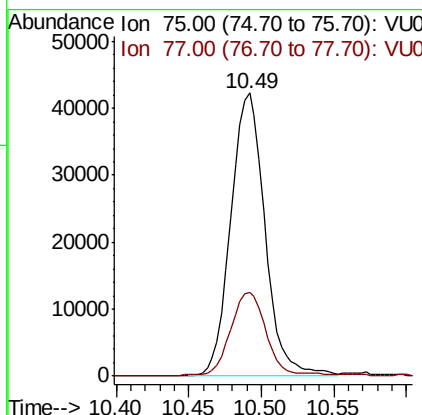
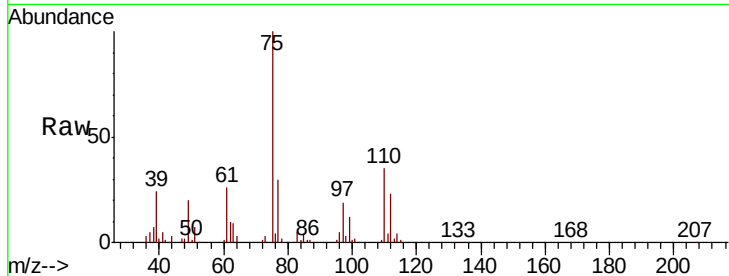




#59
 1,2,3-Trichloropropane
 Concen: 5.720 ug/L
 RT: 10.49 min Scan# 2924
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

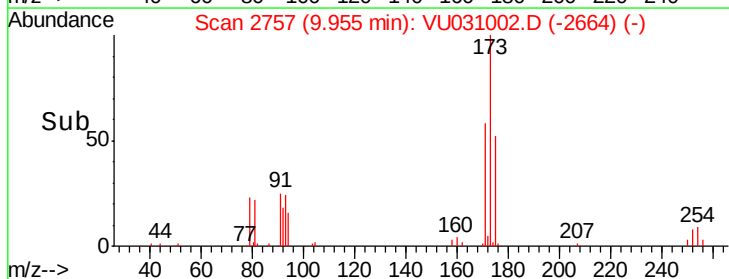
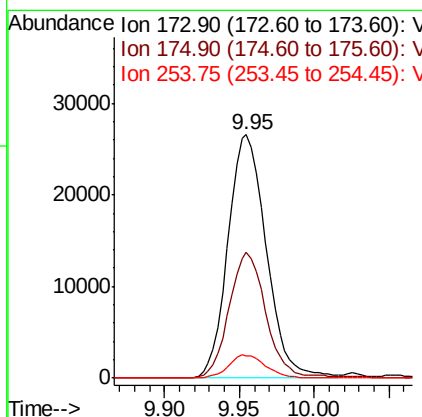
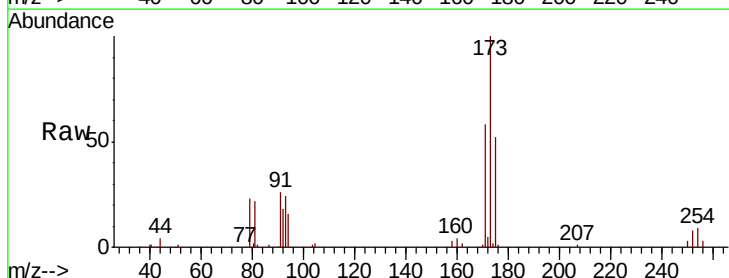
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

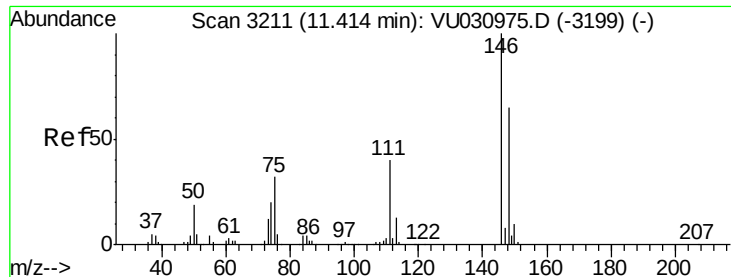
Tot Ion: 75 Resp: 69331
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.6 38.4



#61
 Bromoform
 Concen: 5.642 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion: 173 Resp: 47422
 Ion Ratio Lower Upper
 173 100
 175 49.9 38.6 58.0
 254 9.0 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 4.812 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

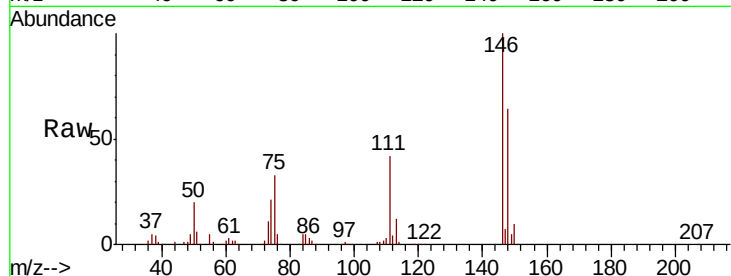
Tot Ion:146 Resp: 168530

Ion Ratio Lower Upper

146 100

111 41.6 28.9 53.7

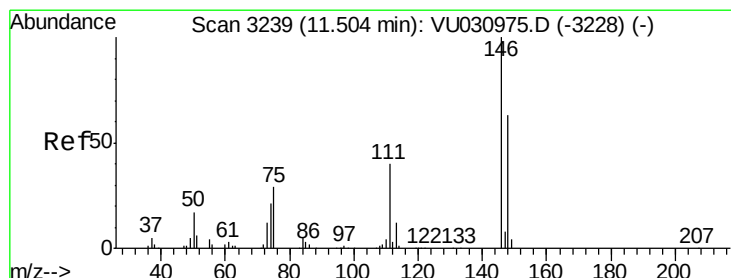
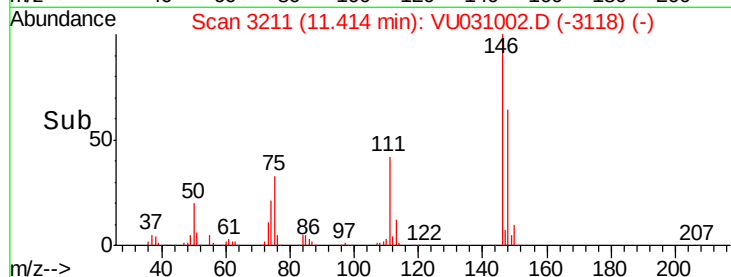
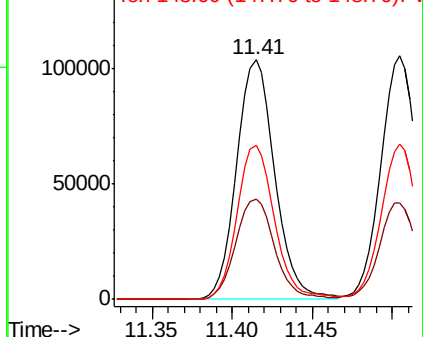
148 64.1 44.4 82.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.827 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

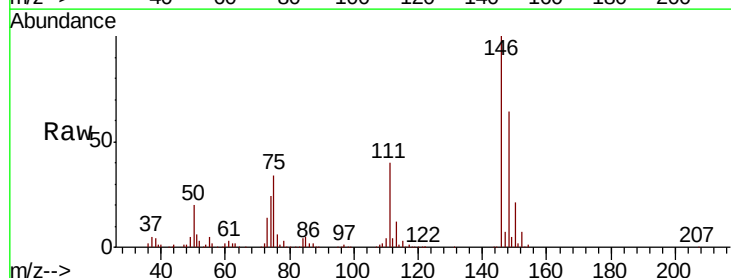
Tgt Ion:146 Resp: 177221

Ion Ratio Lower Upper

146 100

111 39.6 27.9 51.9

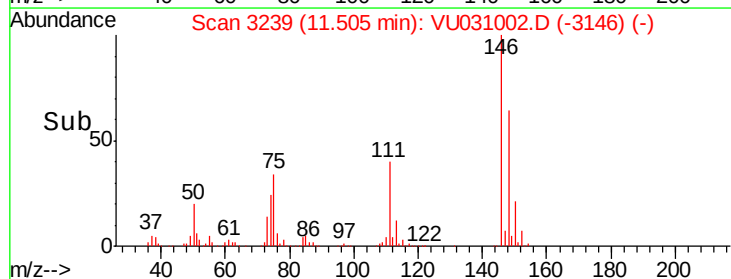
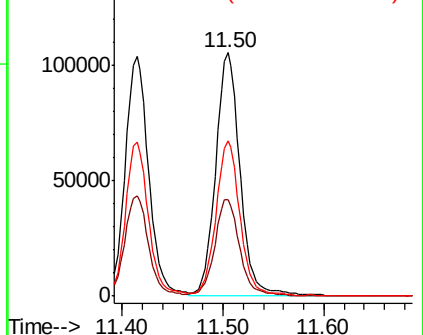
148 63.6 45.4 84.4

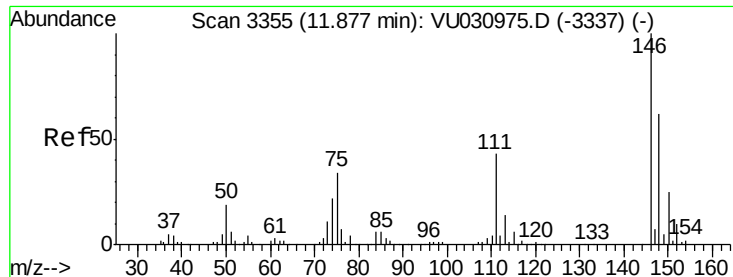


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

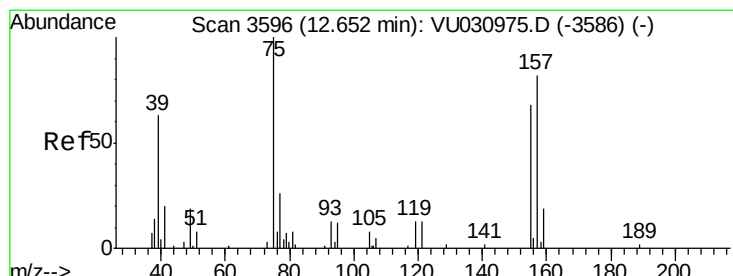
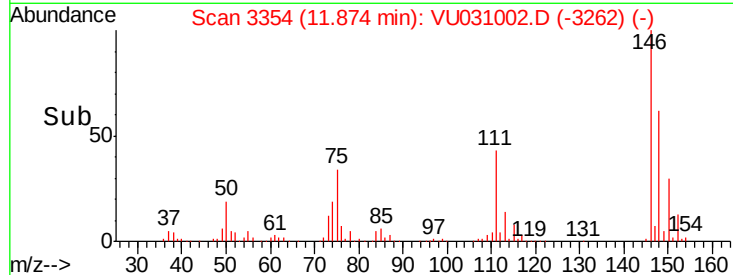
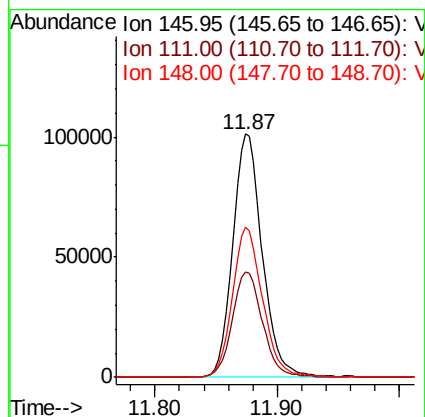
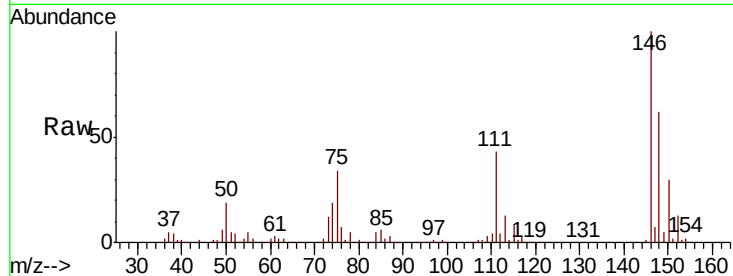




#65
 1,2-Dichlorobenzene
 Concen: 5.021 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

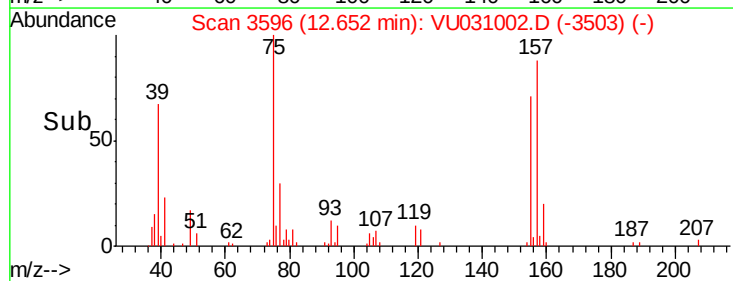
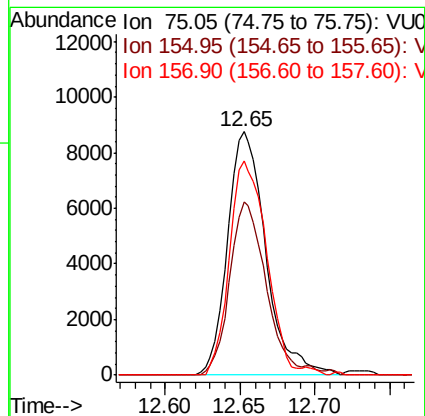
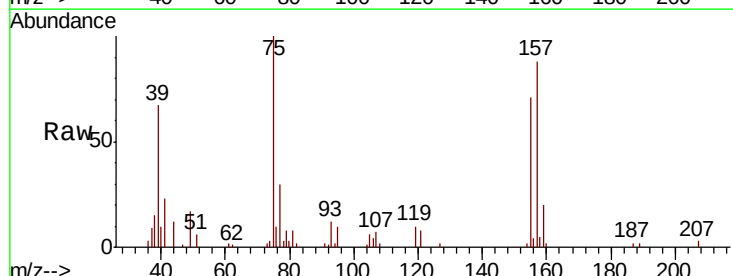
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

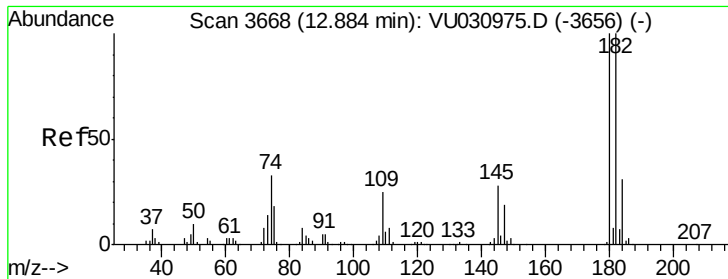
Tot Ion:146 Resp: 171100
 Ion Ratio Lower Upper
 146 100
 111 43.3 37.1 55.7
 148 61.9 51.8 77.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.922 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion: 75 Resp: 15615
 Ion Ratio Lower Upper
 75 100
 155 70.9 57.7 86.5
 157 87.9 76.9 115.3

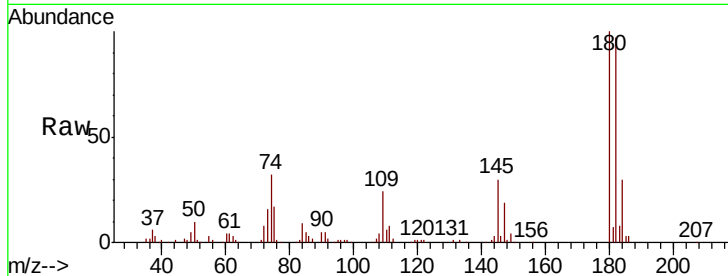




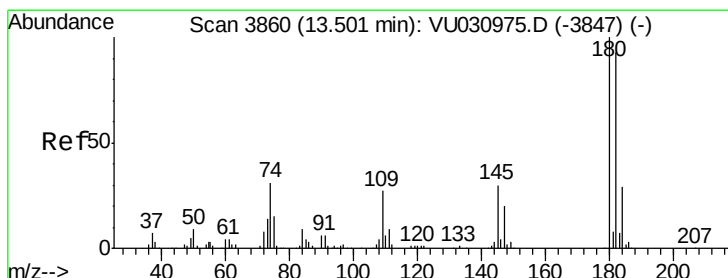
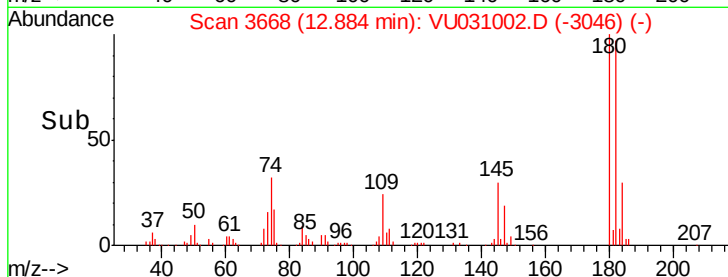
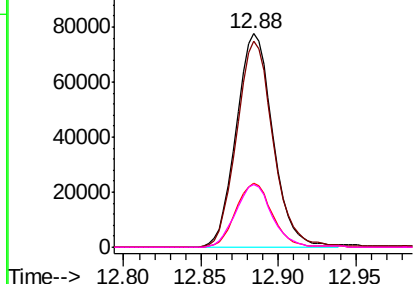
#67
 1,3,5-Trichlorobenzene
 Concen: 4.892 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00516

Tot Ion:180	Resp:	127837
Ion Ratio	Lower	Upper
180	100	
182	95.8	76.2 114.2
184	29.8	24.2 36.2
145	29.4	24.1 36.1

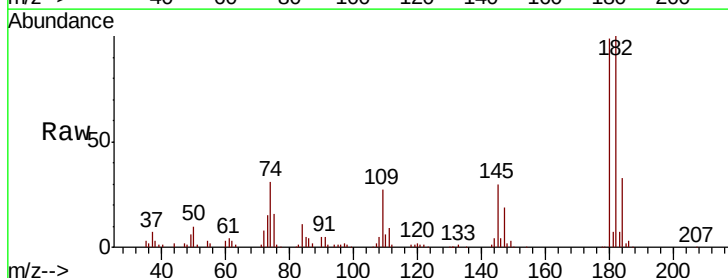


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

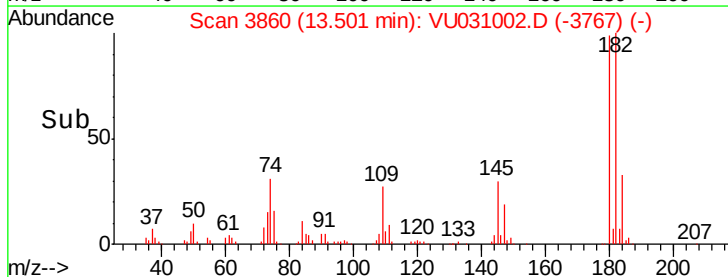
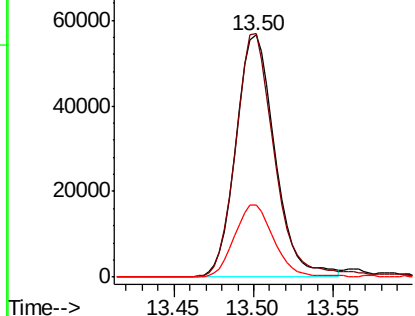


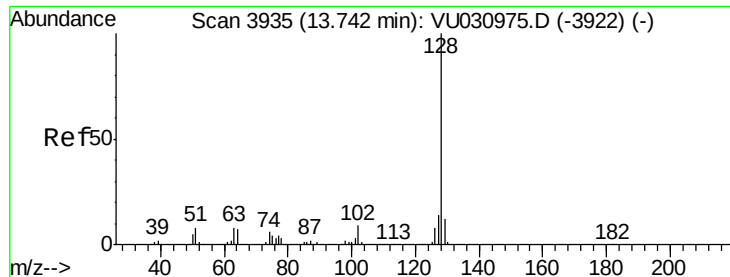
#68
 1,2,4-trichlorobenzene
 Concen: 4.670 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU031002.D
 Acq: 10 Apr 2019 10:21

Tgt Ion:180	Resp:	94250
Ion Ratio	Lower	Upper
180	100	
182	99.8	74.6 111.8
145	30.1	23.6 35.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.602 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

Instrument :

MSVOA_U

ClientSampleId :

VSTD00516

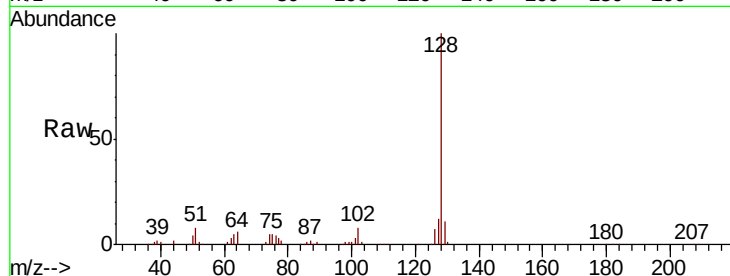
Tot Ion:128 Resp: 149145

Ion Ratio Lower Upper

128 100

129 9.9 8.3 12.5

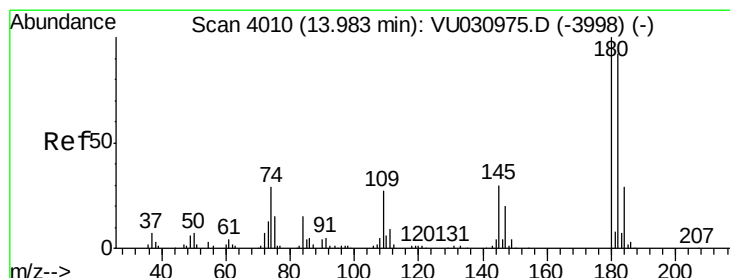
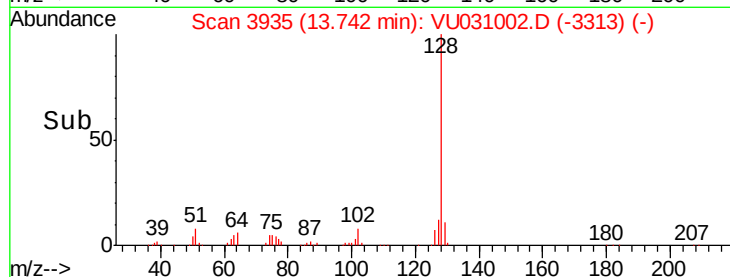
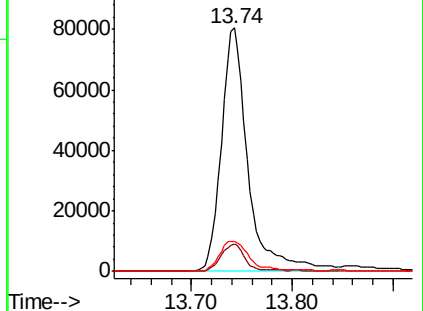
127 13.7 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.166 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031002.D

Acq: 10 Apr 2019 10:21

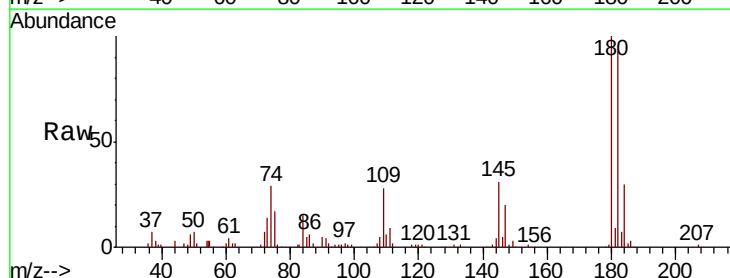
Tgt Ion:180 Resp: 97160

Ion Ratio Lower Upper

180 100

182 96.2 76.8 115.2

145 31.0 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

