

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
 Data File : VU031066.D
 Acq On : 11 Apr 2019 14:15
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

Quant Time: Apr 12 03:13:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 12 03:03:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	518778	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	512722	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	250645	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	241101	52.06	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	104.12%
7) Chloroethane-d5	1.68	69	182152	51.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.64%
11) 1,1-Dichloroethene-d2	2.27	63	415751	49.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.28%
21) 2-Butanone-d5	4.17	46	320251	87.25	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.25%
24) Chloroform-d	4.64	84	368684	52.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.24%
26) 1,2-Dichloroethane-d4	5.30	65	234773	48.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.28%
32) Benzene-d6	5.33	84	737389	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
36) 1,2-Dichloropropane-d6	6.32	67	242751	47.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.64%
41) Toluene-d8	7.56	98	662453	49.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.86%
43) trans-1,3-Dichloropropene-	7.85	79	116692	49.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.78%
47) 2-Hexanone-d5	8.31	63	199031	84.89	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	84.89%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	322709	46.64	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.28%
64) 1,2-Dichlorobenzene-d4	11.85	152	241761	49.05	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	225178	49.414	ug/L	100
3) Chloromethane	1.32	50	264694	44.907	ug/L	99
5) Vinyl chloride	1.40	62	279652	49.013	ug/L	95
6) Bromomethane	1.62	94	134843	45.615	ug/L	100
8) Chloroethane	1.69	64	162684	49.991	ug/L	97
9) Trichlorofluoromethane	1.88	101	358746	53.960	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	186779	50.281	ug/L	98
12) 1,1-Dichloroethene	2.28	96	176778	49.296	ug/L	86
13) Acetone	2.32	43	373279	99.388	ug/L	99
14) Carbon disulfide	2.47	76	517477	46.451	ug/L	99
15) Methyl Acetate	2.61	43	271025	46.542	ug/L	99
16) Methylene chloride	2.69	84	218310	50.113	ug/L	95
17) trans-1,2-Dichloroethene	2.98	96	198395	52.105	ug/L	97
18) Methyl tert-butyl Ether	2.99	73	649218	50.901	ug/L	99
19) 1,1-Dichloroethane	3.44	63	397051	50.530	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	218798	52.042	ug/L	90
22) 2-Butanone	4.25	43	440847	100.112	ug/L	91

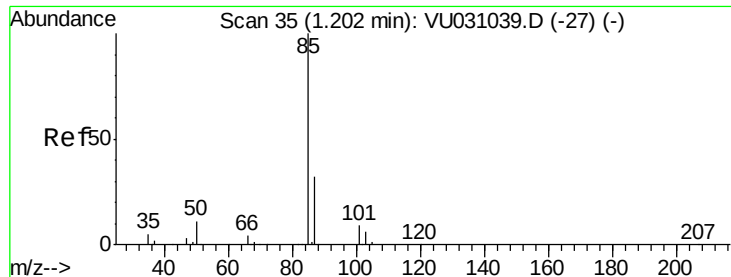
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 12 03:03:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	109004	54.842	ug/L	92
25) Chloroform	4.67	83	400767	50.745	ug/L	99
27) 1,2-Dichloroethane	5.40	62	314351	52.151	ug/L	98
29) Cyclohexane	4.99	56	355341	48.626	ug/L	95
30) 1,1,1-Trichloroethane	4.91	97	326266	52.215	ug/L	99
31) Carbon tetrachloride	5.13	117	287214	53.340	ug/L	100
33) Benzene	5.38	78	866271	51.630	ug/L	100
34) Trichloroethene	6.18	95	219054	53.230	ug/L	97
35) Methylcyclohexane	6.41	83	334762	52.711	ug/L	96
37) 1,2-Dichloropropane	6.43	63	232366	48.909	ug/L	99
38) Bromodichloromethane	6.75	83	296925	51.806	ug/L	98
39) cis-1,3-Dichloropropene	7.26	75	352907	52.187	ug/L	99
40) 4-Methyl-2-pentanone	7.45	43	725526	94.964	ug/L	98
42) Toluene	7.63	91	903068	52.728	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	311023	52.190	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	211111	52.394	ug/L	98
46) Tetrachloroethene	8.22	164	162038	54.159	ug/L	98
48) 2-Hexanone	8.36	43	591783	99.282	ug/L	98
49) Dibromochloromethane	8.47	129	222977	52.152	ug/L	97
50) 1,2-Dibromoethane	8.58	107	219088	50.248	ug/L	98
51) Chlorobenzene	9.12	112	561403	53.445	ug/L	99
52) Ethylbenzene	9.24	91	985236	52.774	ug/L	99
53) m,p-Xylene	9.37	106	354985	54.520	ug/L	100
54) o-xylene	9.77	106	348245	53.771	ug/L	98
55) Styrene	9.79	104	616742	55.518	ug/L	98
56) Isopropylbenzene	10.16	105	932985	54.715	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	360662	49.486	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	285203	50.122	ug/L	98
61) Bromoform	9.95	173	167681	50.642	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	411142	51.901	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	430896	53.476	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	419669	52.815	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	79334	46.965	ug/L	99
67) 1,3,5-Trichlorobenzene	12.88	180	316271	54.631	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	277601	56.397	ug/L	99
69) Naphthalene	13.74	128	874490	54.803	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	281704	54.777	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 49.414 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

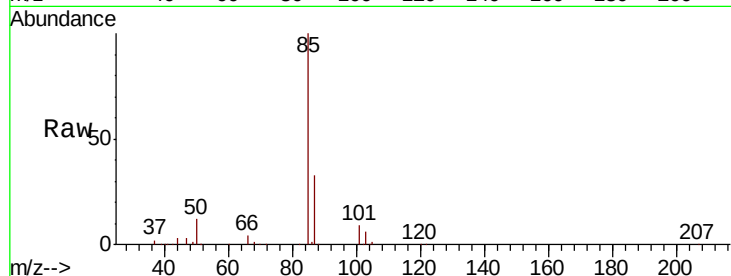
VSTD05060

Tot Ion: 85 Resp: 225178

Ion Ratio Lower Upper

85 100

87 32.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU031039.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU031039.D (-27) (-)

1.20

250000

200000

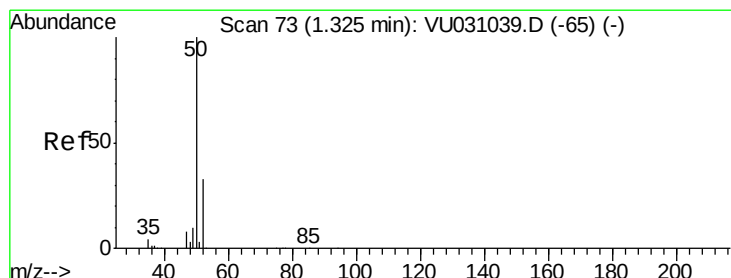
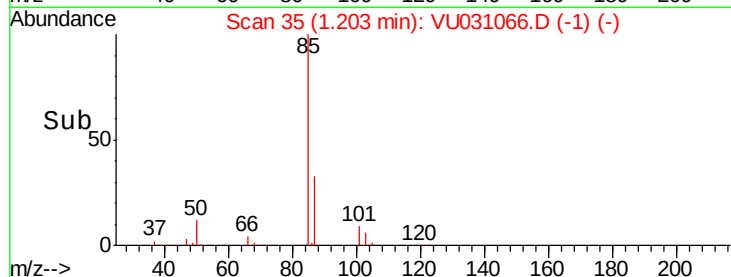
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 44.907 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU031066.D

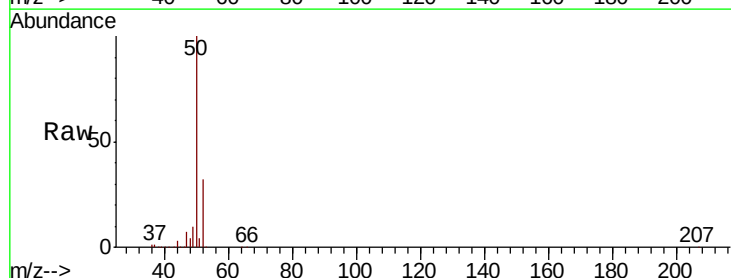
Acq: 11 Apr 2019 14:15

Tgt Ion: 50 Resp: 264694

Ion Ratio Lower Upper

50 100

52 31.8 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU031039.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU031039.D (-65) (-)

1.32

300000

250000

200000

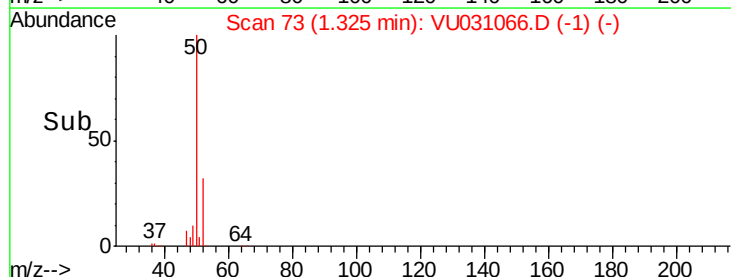
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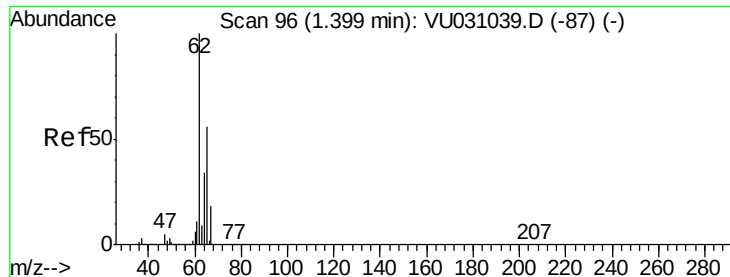
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.013 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

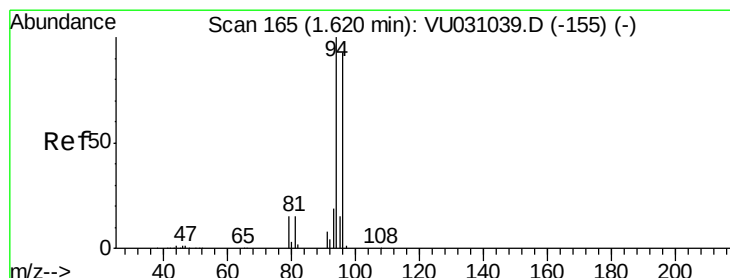
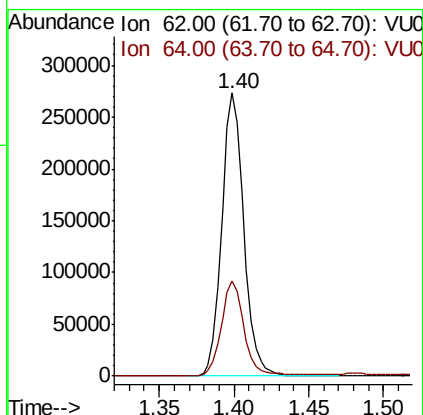
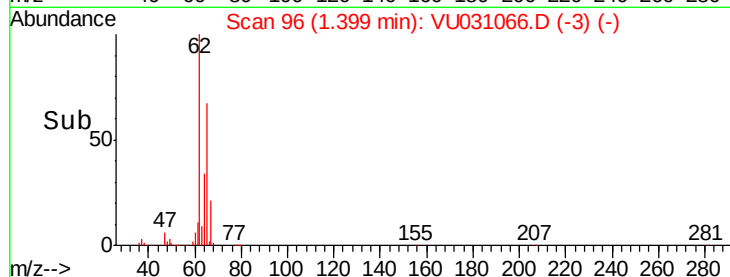
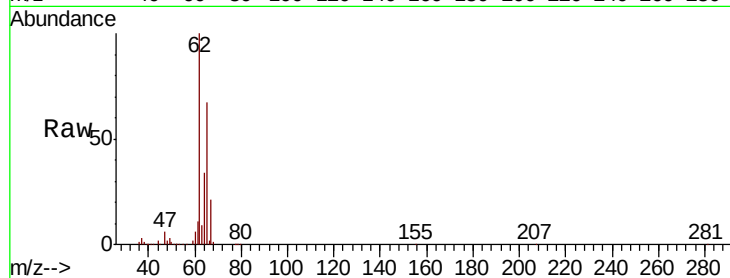
VSTD05060

Tot Ion: 62 Resp: 279652

Ion Ratio Lower Upper

62 100

64 33.6 21.5 39.9



#6

Bromomethane

Concen: 45.615 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU031066.D

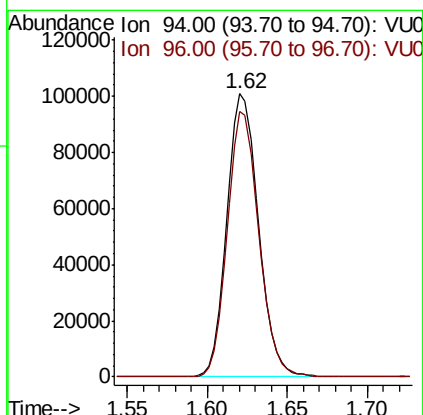
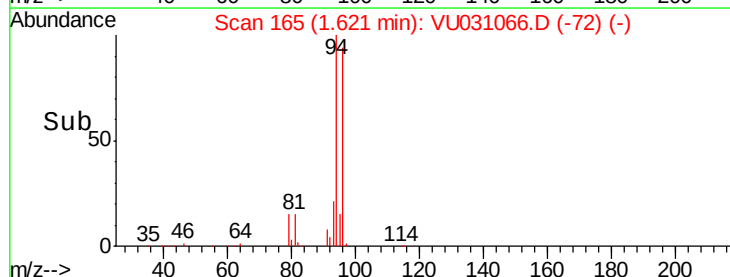
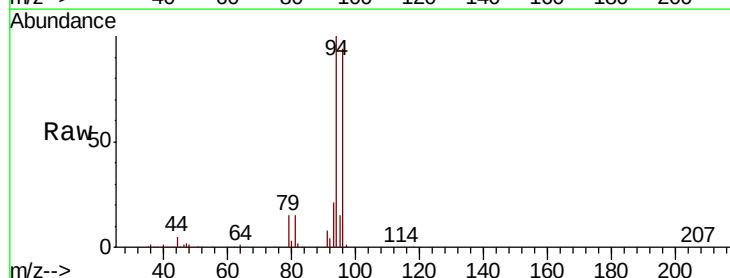
Acq: 11 Apr 2019 14:15

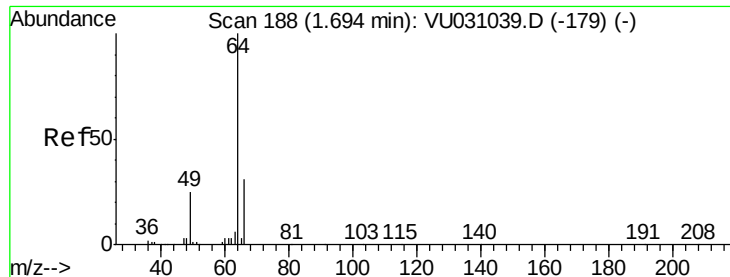
Tgt Ion: 94 Resp: 134843

Ion Ratio Lower Upper

94 100

96 93.9 65.5 121.7





#8

Chloroethane

Concen: 49.991 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

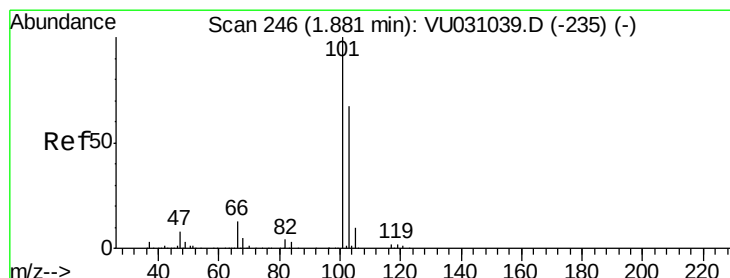
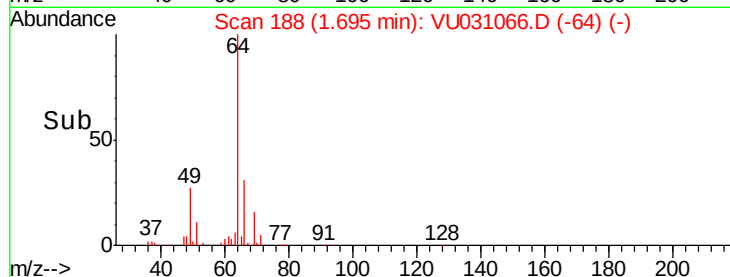
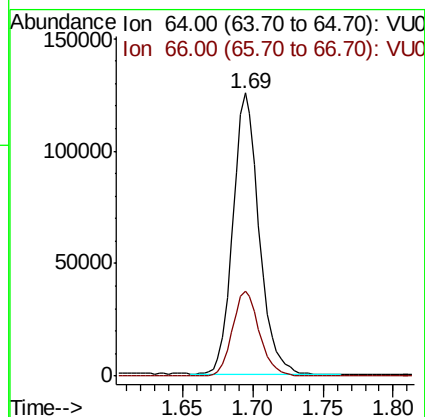
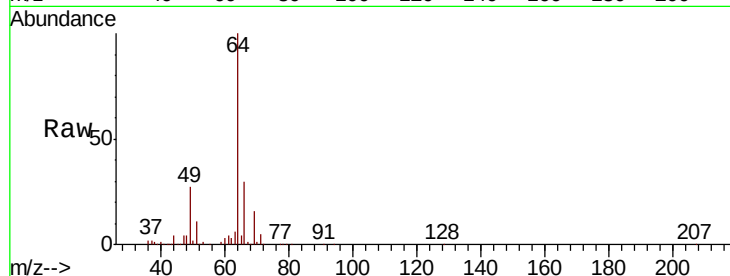
VSTD05060

Tot Ion: 64 Resp: 162684

Ion Ratio Lower Upper

64 100

66 30.2 22.4 41.6



#9

Trichlorofluoromethane

Concen: 53.960 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU031066.D

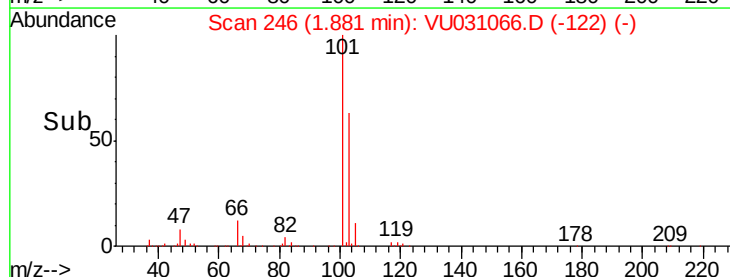
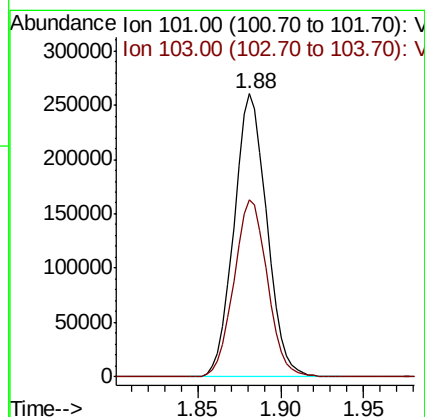
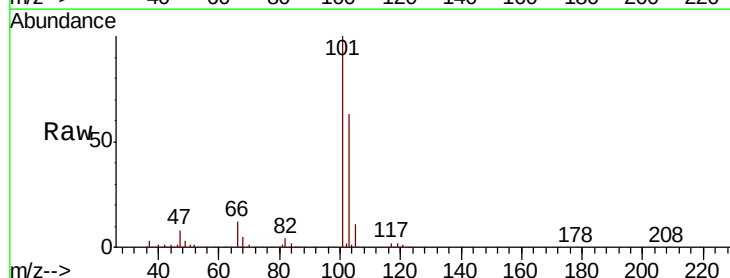
Acq: 11 Apr 2019 14:15

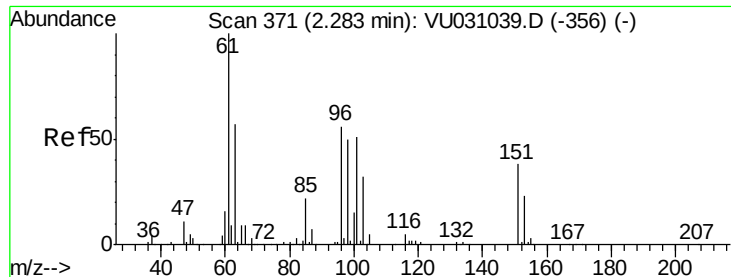
Tgt Ion: 101 Resp: 358746

Ion Ratio Lower Upper

101 100

103 63.7 51.8 77.8





#10

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

Concen: 50.281 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

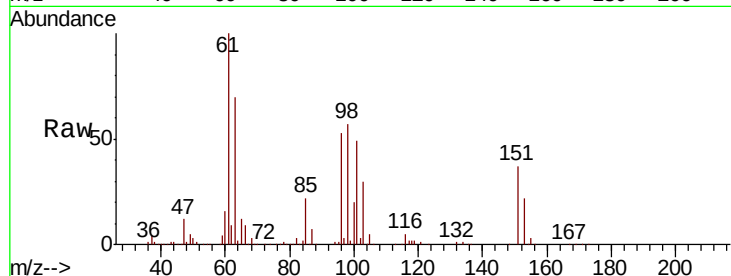
Tot Ion:101 Resp: 186779

Ion Ratio Lower Upper

101 100

85 44.2 36.8 55.2

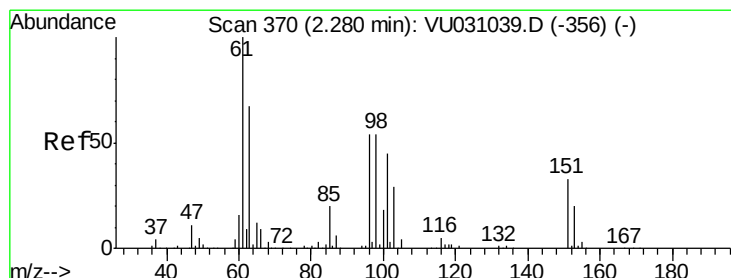
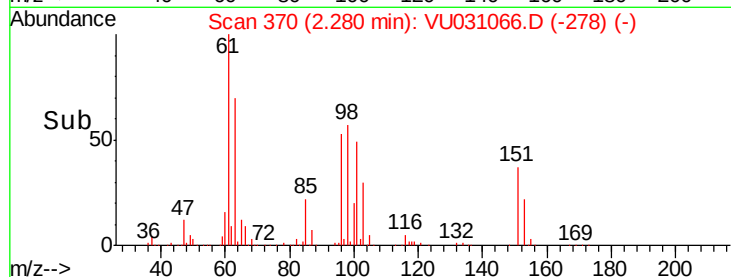
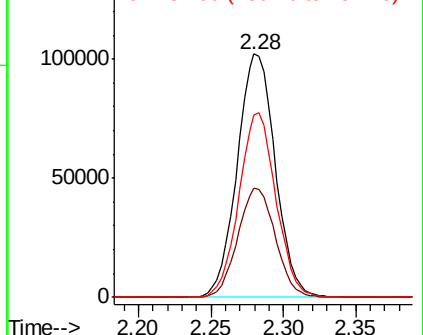
151 73.7 57.4 86.0



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: 49.296 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

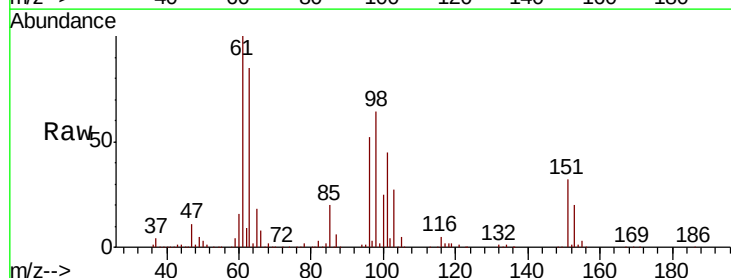
Tgt Ion: 96 Resp: 176778

Ion Ratio Lower Upper

96 100

61 193.0 132.0 245.2

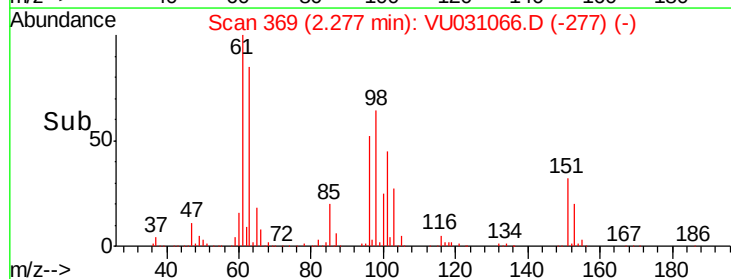
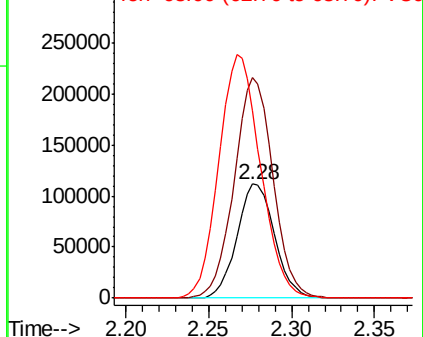
63 163.8 90.9 168.9

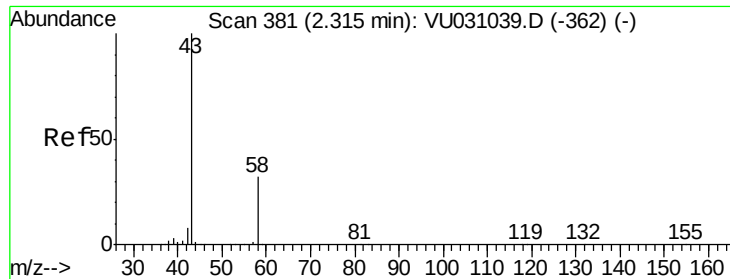


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 99.388 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

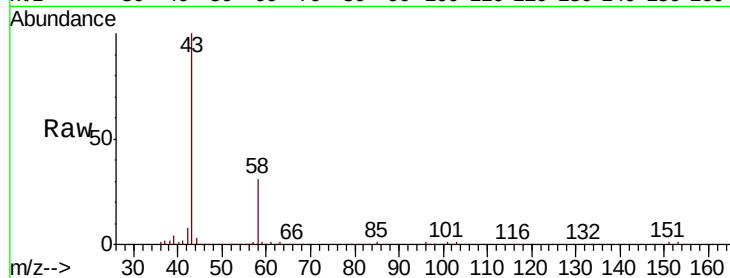
VSTD05060

Tot Ion: 43 Resp: 373279

Ion Ratio Lower Upper

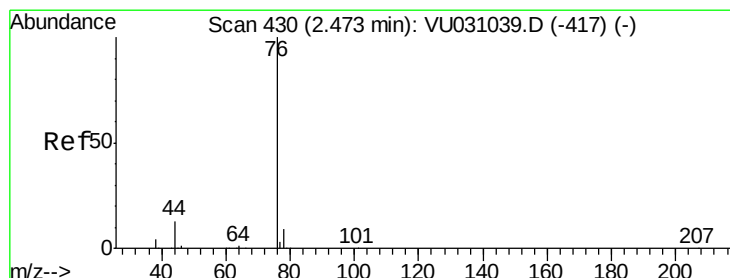
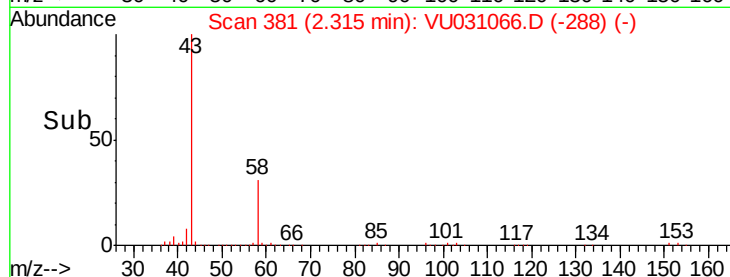
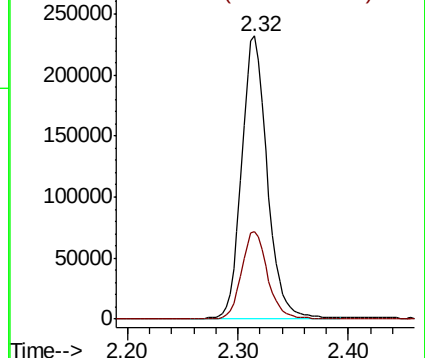
43 100

58 31.3 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 46.451 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU031066.D

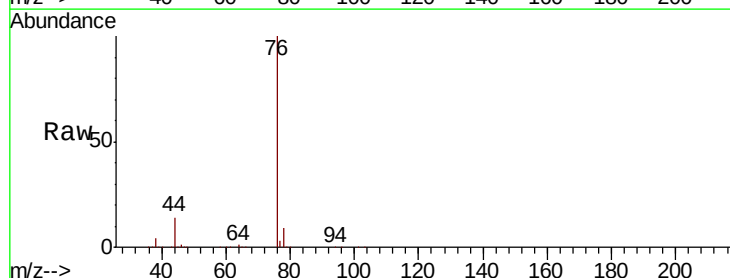
Acq: 11 Apr 2019 14:15

Tgt Ion: 76 Resp: 517477

Ion Ratio Lower Upper

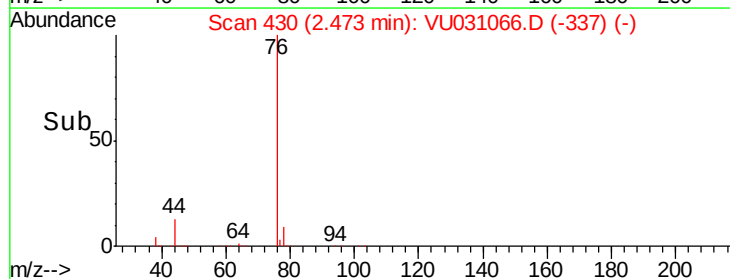
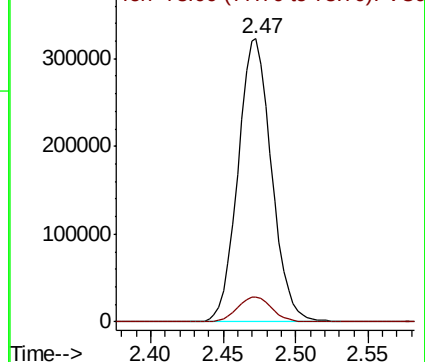
76 100

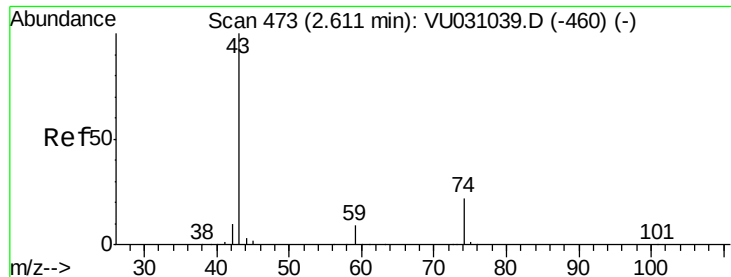
78 8.9 7.0 10.4



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

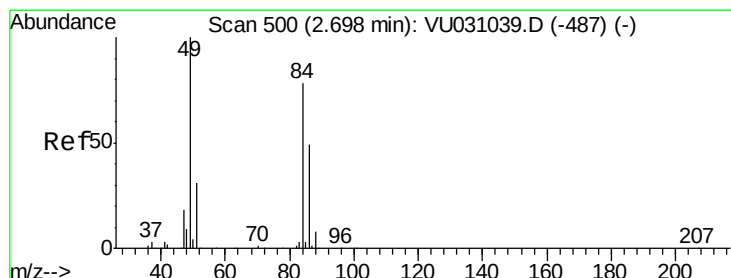
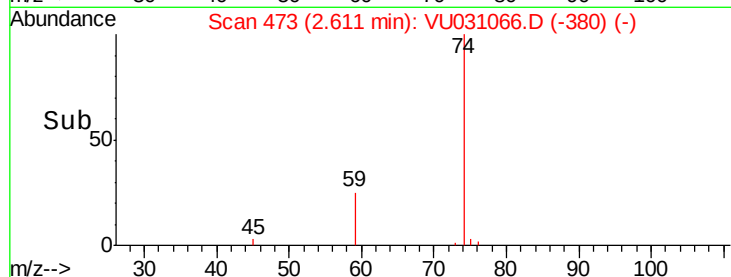
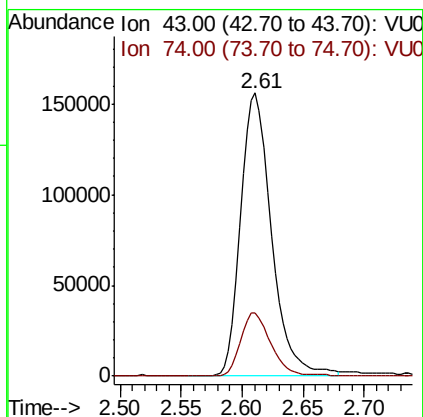
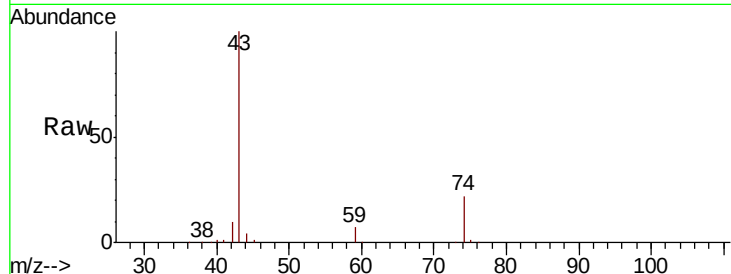




#15
Methvl Acetate
Concen: 46.542 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

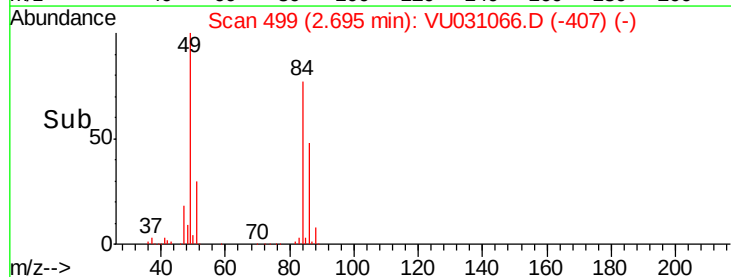
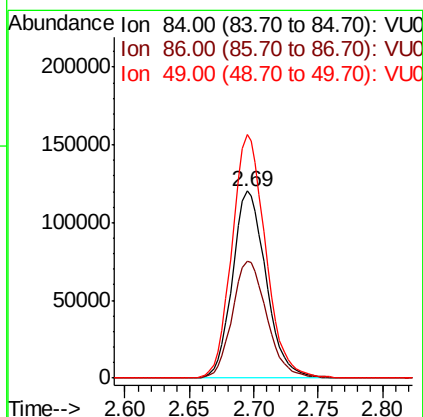
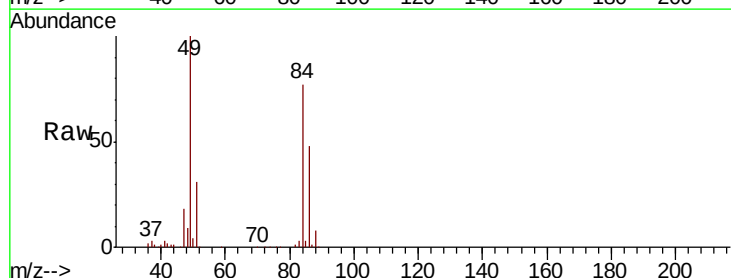
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

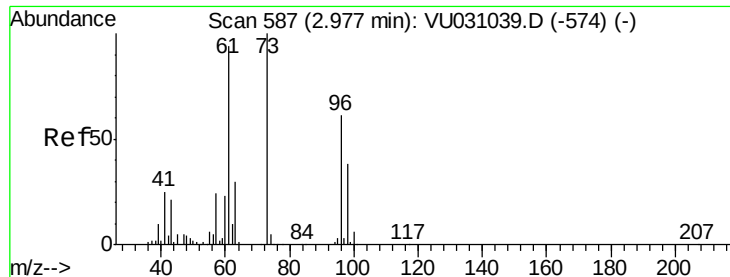
Tot Ion: 43 Resp: 271025
Ion Ratio Lower Upper
43 100
74 21.8 17.1 25.7



#16
Methylene chloride
Concen: 50.113 ug/L
RT: 2.69 min Scan# 499
Delta R.T. -0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Tgt Ion: 84 Resp: 218310
Ion Ratio Lower Upper
84 100
86 62.5 45.1 83.7
49 130.2 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 52.105 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

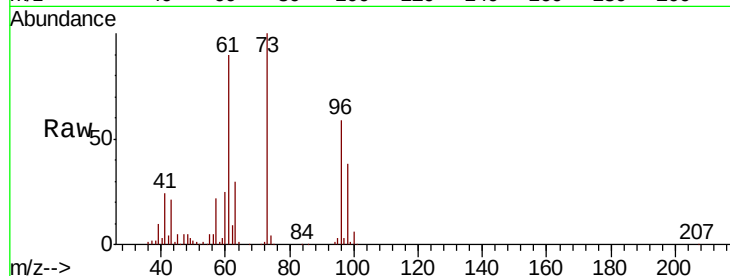
Tot Ion: 96 Resp: 198395

Ion Ratio Lower Upper

96 100

61 151.5 109.5 203.3

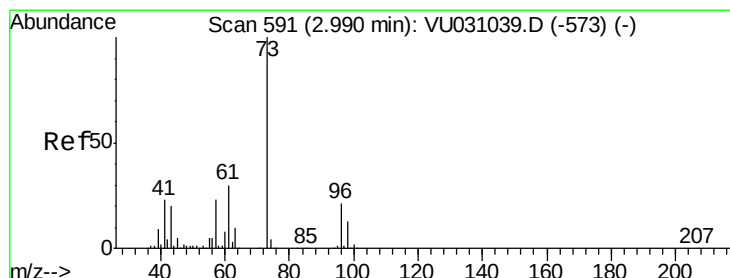
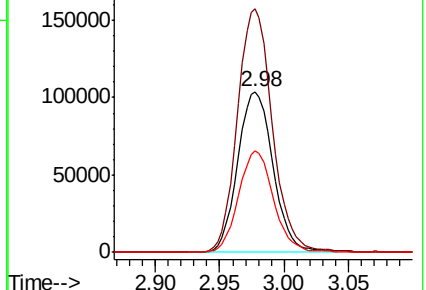
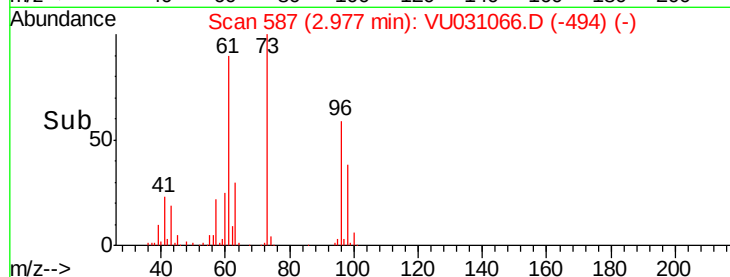
98 63.3 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU031039.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU031039.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU031039.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 50.901 ug/L

RT: 2.99 min Scan# 591

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

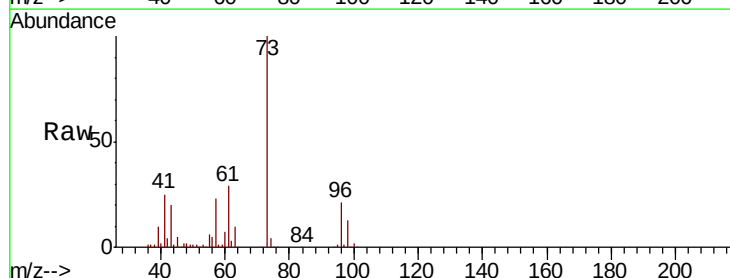
Tgt Ion: 73 Resp: 649218

Ion Ratio Lower Upper

73 100

43 20.2 16.4 24.6

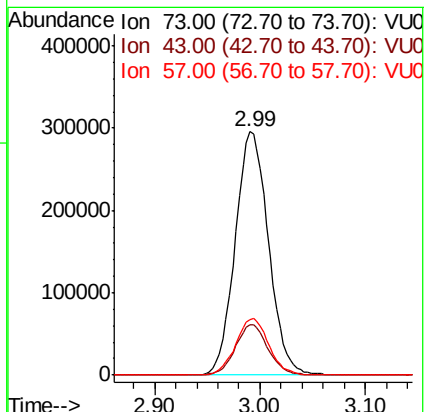
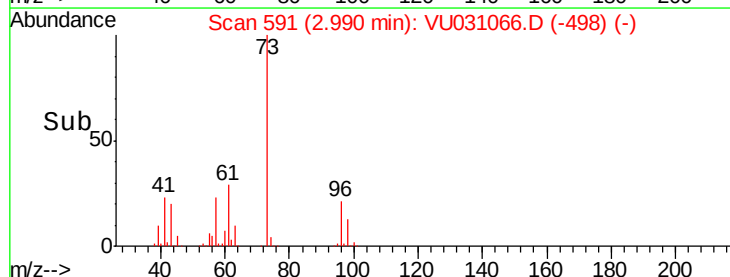
57 23.0 19.0 28.4

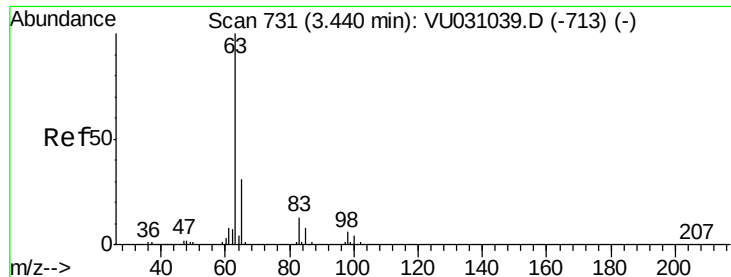


Abundance Ion 73.00 (72.70 to 73.70): VU031039.D (-573) (-)

Ion 43.00 (42.70 to 43.70): VU031039.D (-573) (-)

Ion 57.00 (56.70 to 57.70): VU031039.D (-573) (-)

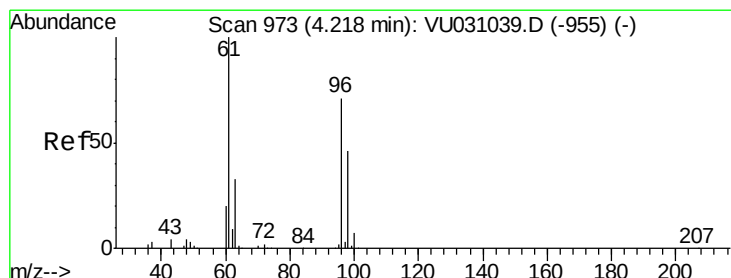
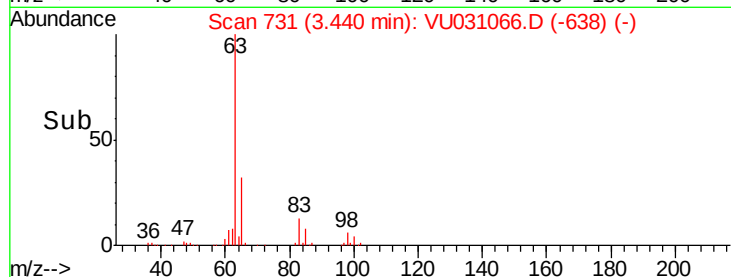
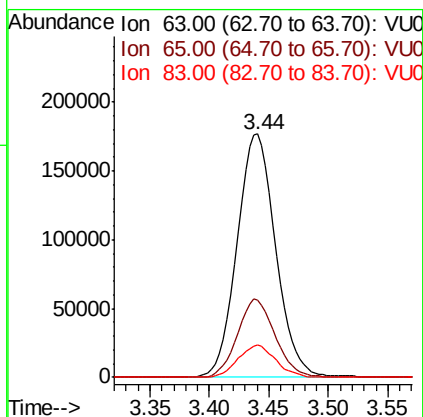
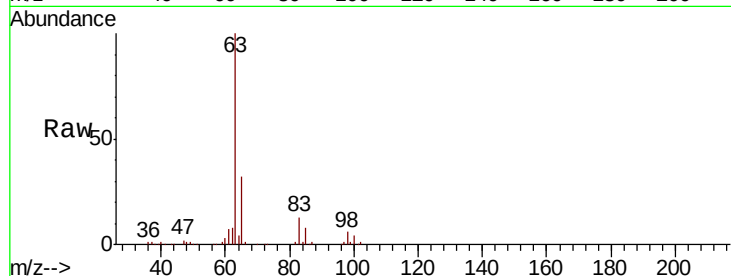




#19
 1,1-Dichloroethane
 Concen: 50.530 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

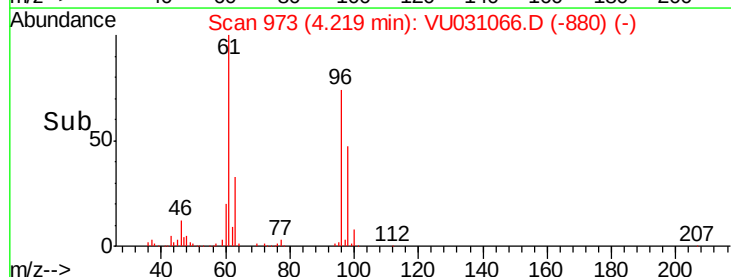
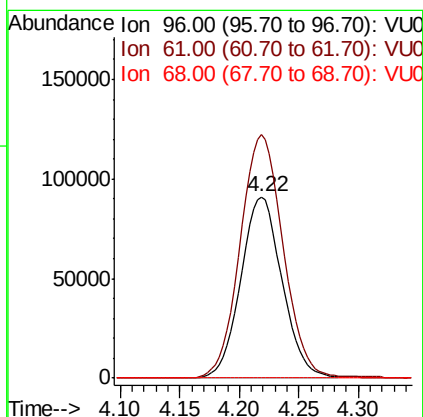
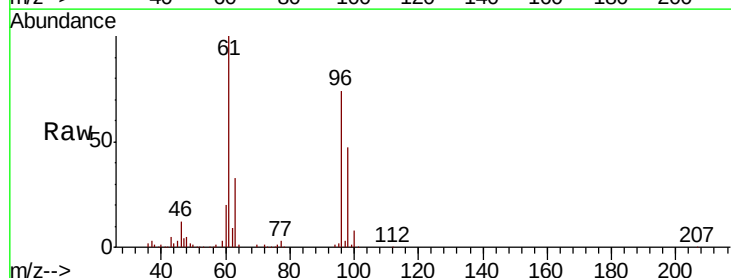
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

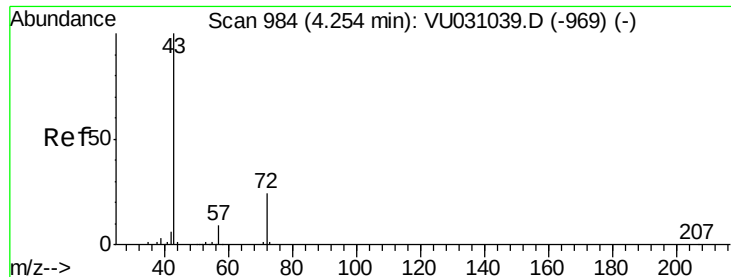
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	21.4	39.8
83	13.1	8.5	15.7



#20
 cis-1,2-Dichloroethene
 Concen: 52.042 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	134.3	102.9	191.1
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 100.112 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

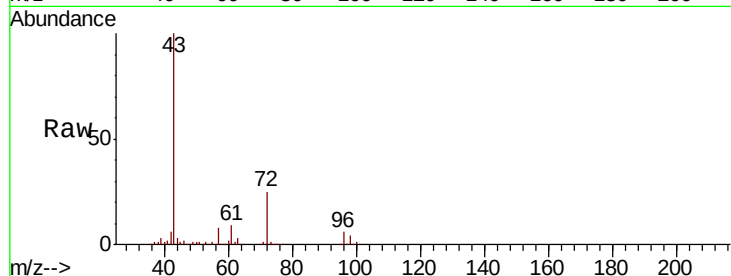
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion: 43 Resp: 440847

Ion Ratio Lower Upper

43 100

72 25.6 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU031039.D (-969) (-)

Ion 72.00 (71.70 to 72.70): VU031039.D (-969) (-)

4.25

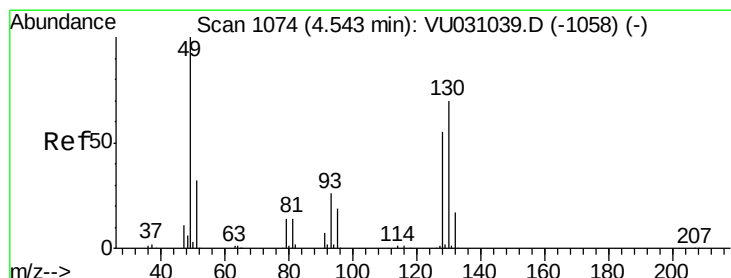
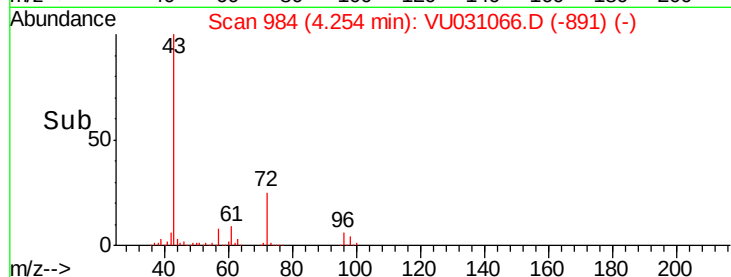
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 54.842 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Tgt Ion: 128 Resp: 109004

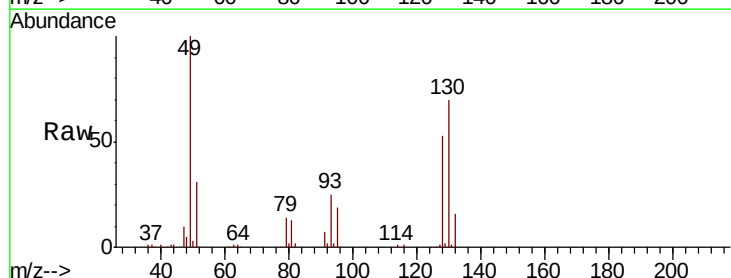
Ion Ratio Lower Upper

128 100

49 187.3 139.9 259.7

130 131.9 86.6 160.8

51 58.4 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU031039.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU031039.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU031039.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU031039.D (-1058) (-)

120000

100000

80000

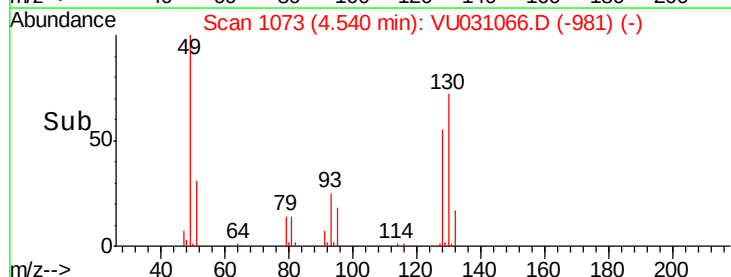
60000

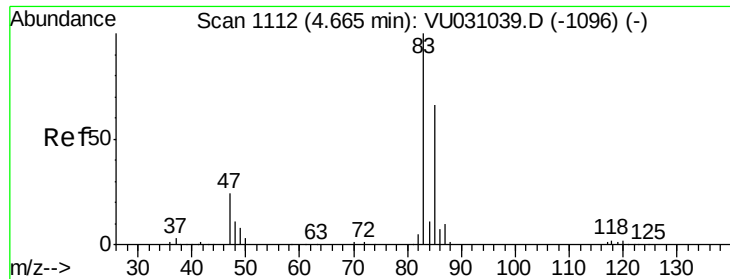
40000

20000

0

Time-->

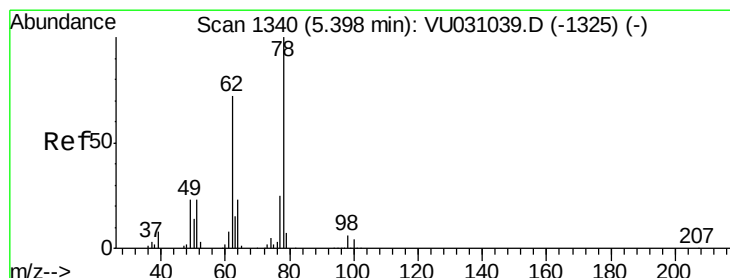
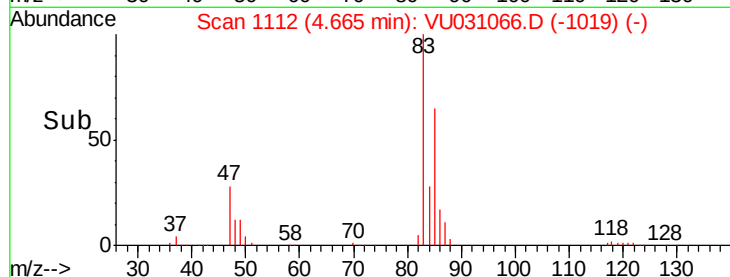
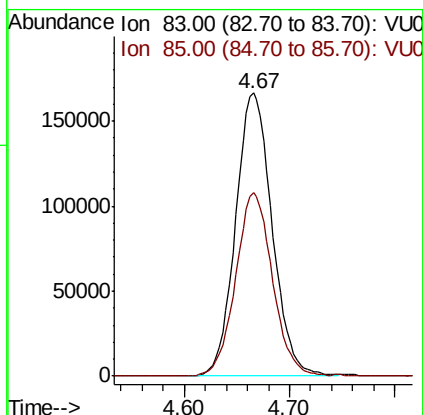
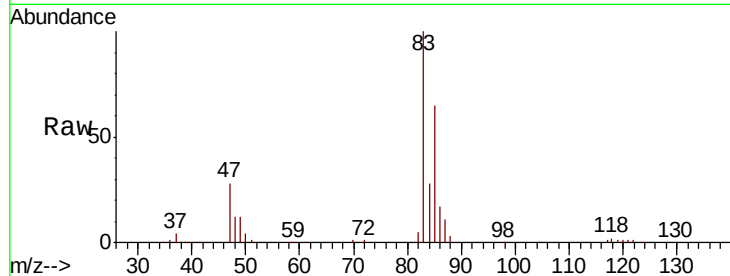




#25
Chloroform
Concen: 50.745 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

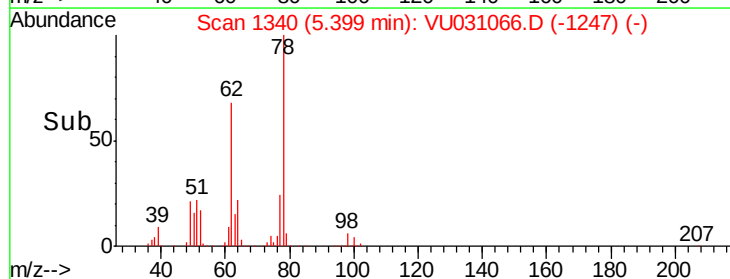
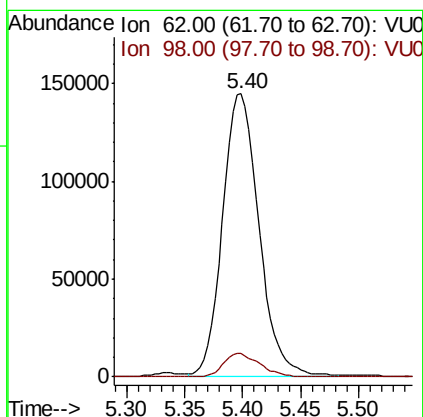
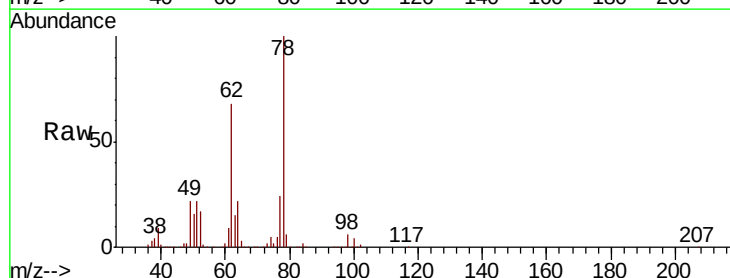
Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

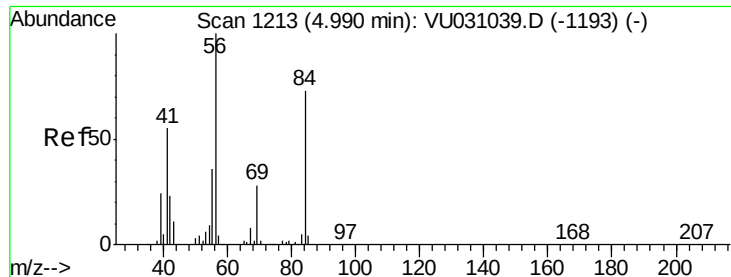
Tot Ion: 83 Resp: 400767
Ion Ratio Lower Upper
83 100
85 64.8 45.8 85.0



#27
1,2-Dichloroethane
Concen: 52.151 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Tgt Ion: 62 Resp: 314351
Ion Ratio Lower Upper
62 100
98 8.2 7.2 10.8

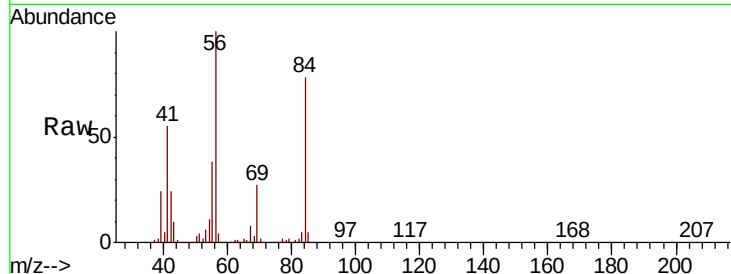




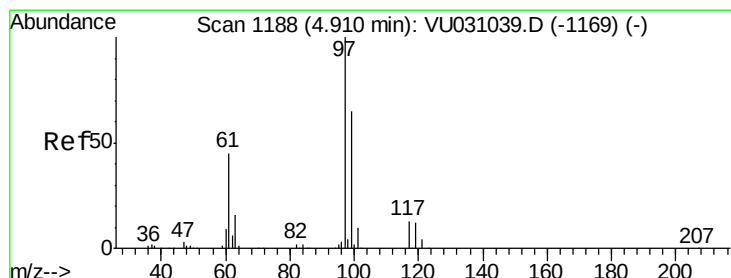
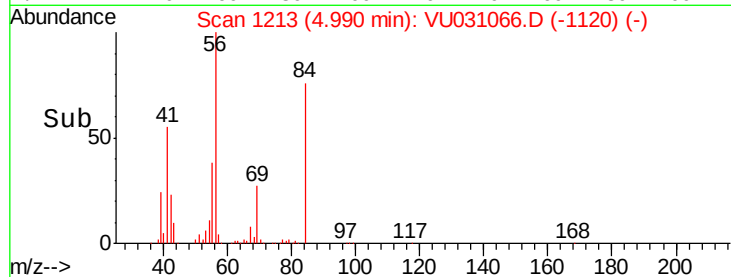
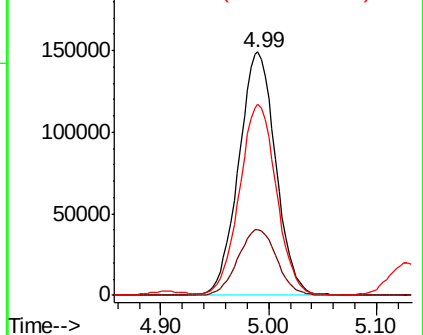
#29
Cyclohexane
Concen: 48.626 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion: 56 Resp: 355341
Ion Ratio Lower Upper
56 100
69 28.4 22.0 33.0
84 78.2 58.2 87.2

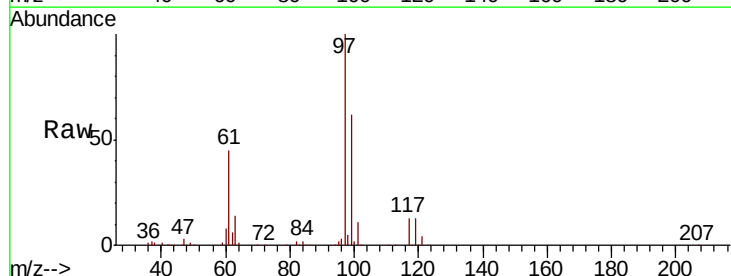


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

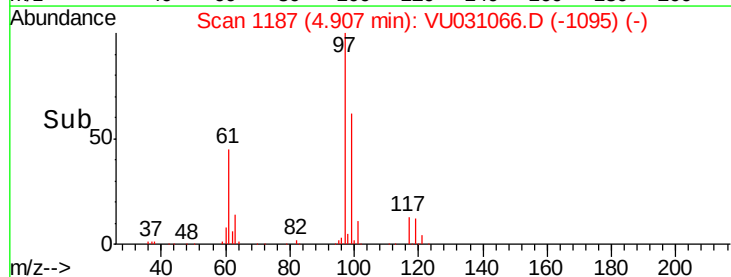
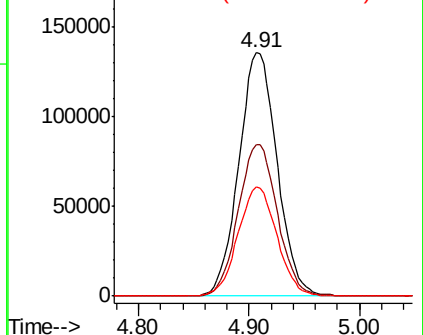


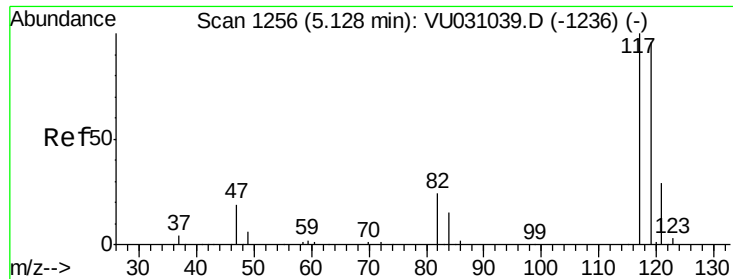
#30
1,1,1-Trichloroethane
Concen: 52.215 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. -0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Tgt Ion: 97 Resp: 326266
Ion Ratio Lower Upper
97 100
99 63.6 51.4 77.2
61 45.5 37.1 55.7



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





#31

Carbon tetrachloride

Concen: 53.340 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

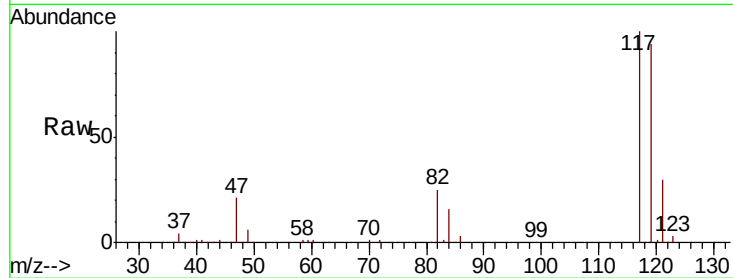
VSTD05060

Tot Ion:117 Resp: 287214

Ion Ratio Lower Upper

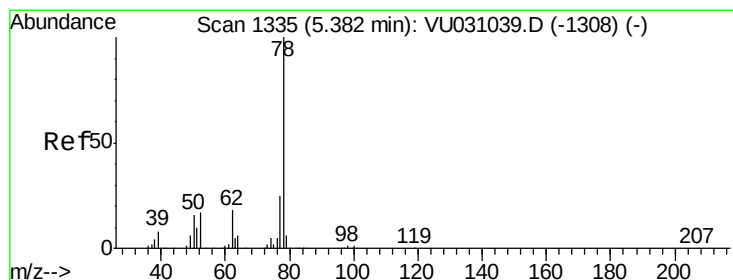
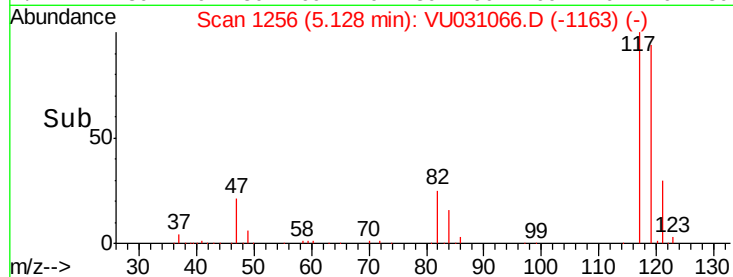
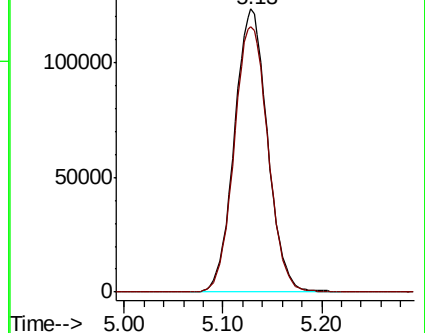
117 100

119 95.6 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.630 ug/L

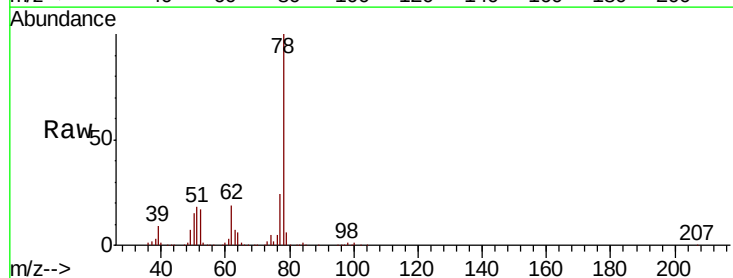
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

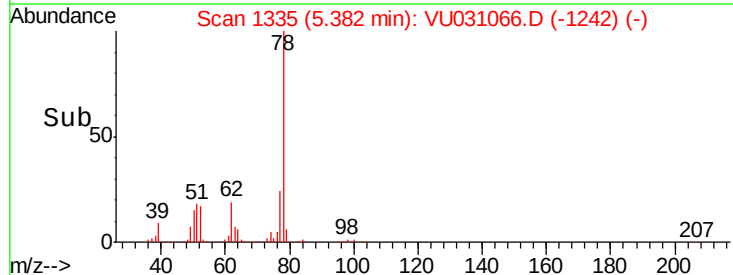
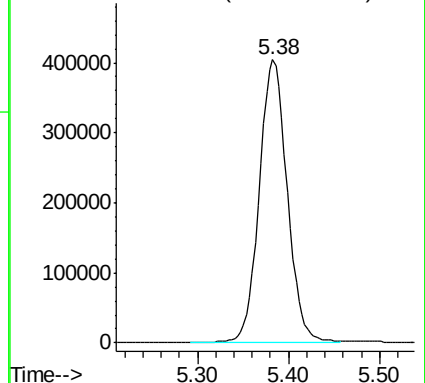
Lab File: VU031066.D

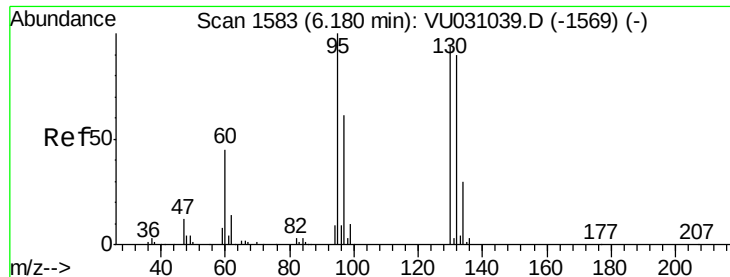
Acq: 11 Apr 2019 14:15

Tgt Ion: 78 Resp: 866271



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 53.230 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

Tot Ion: 95 Resp: 219054

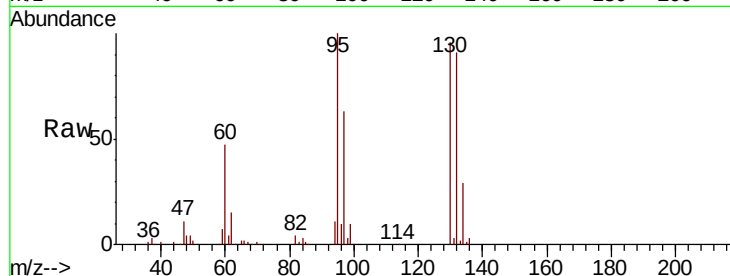
Ion Ratio Lower Upper

95 100

97 62.7 44.5 82.7

132 90.8 61.5 114.1

130 96.0 64.9 120.5

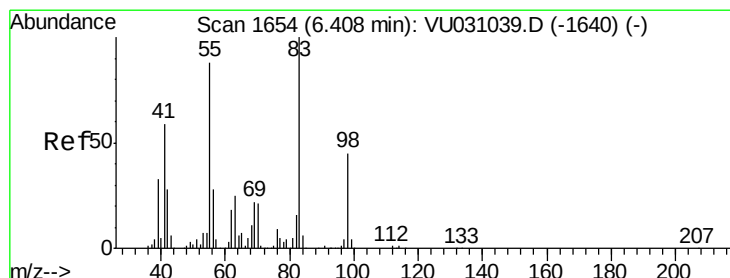
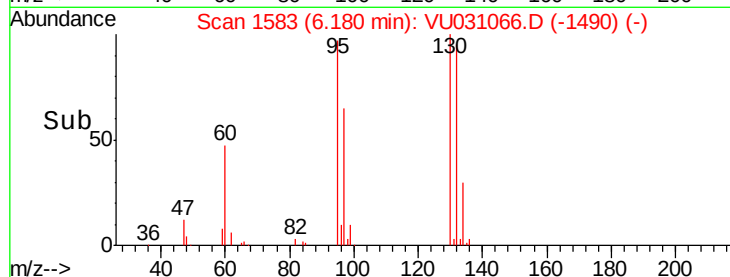
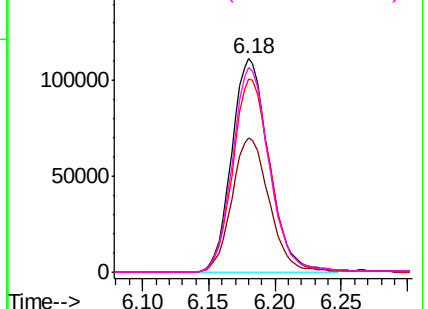


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 52.711 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

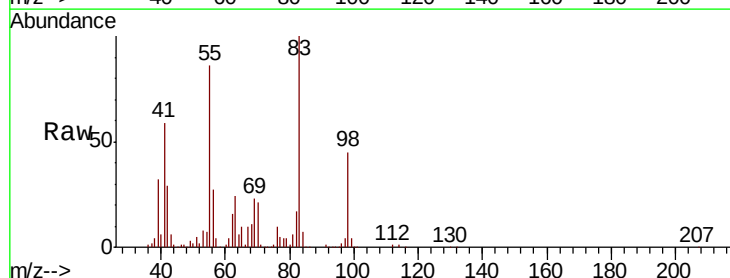
Tgt Ion: 83 Resp: 334762

Ion Ratio Lower Upper

83 100

55 84.6 71.6 107.4

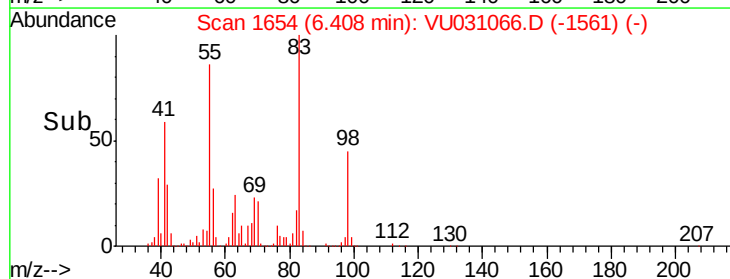
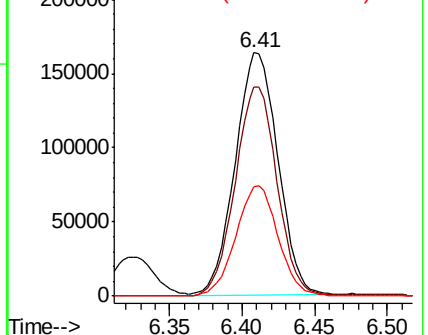
98 45.3 35.4 53.0

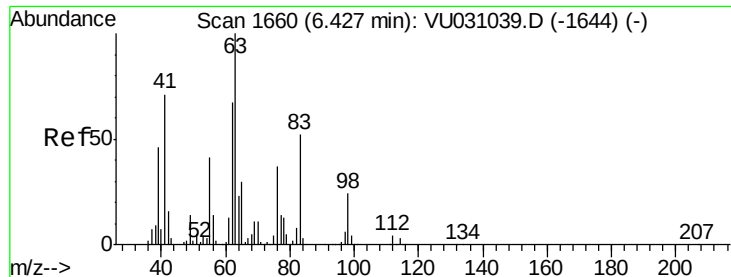


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

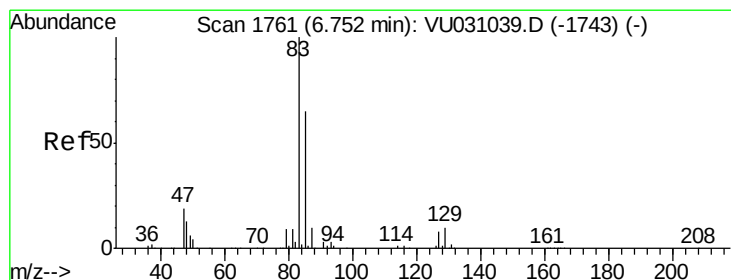
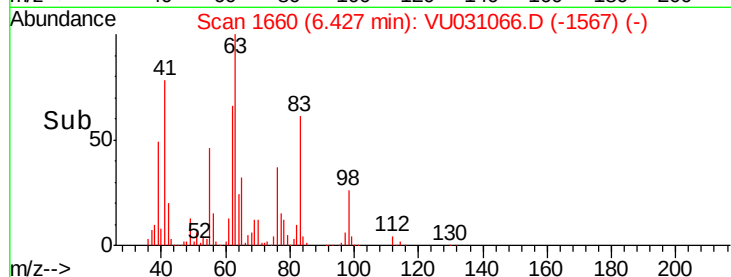
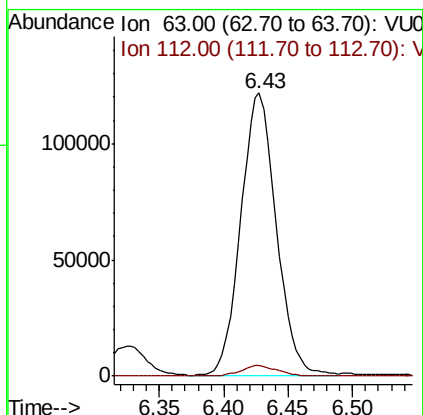
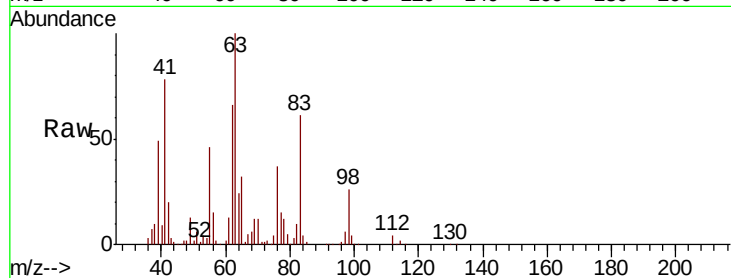




#37
 1,2-Dichloropropane
 Concen: 48.909 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

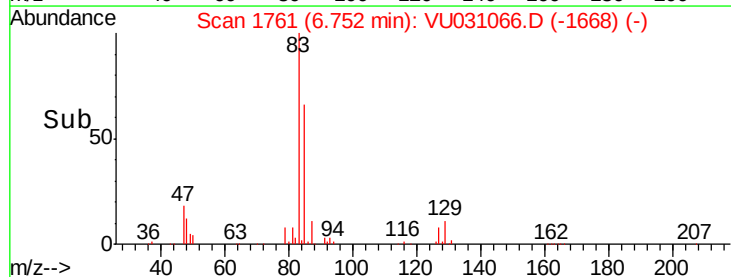
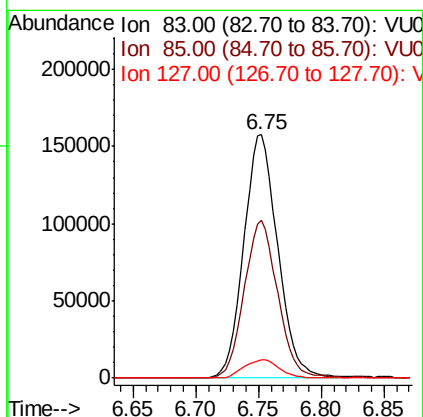
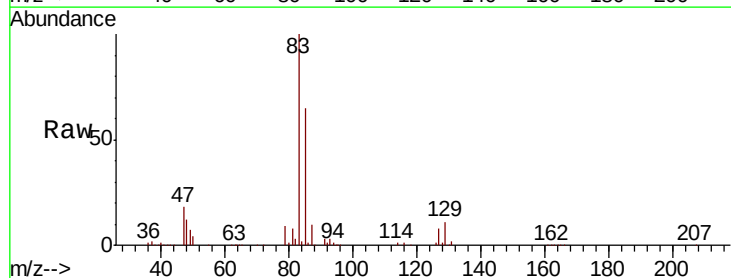
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

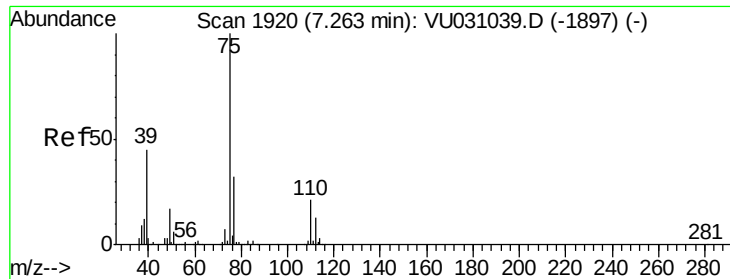
Tot Ion: 63 Resp: 232366
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.0 4.4



#38
 Bromodichloromethane
 Concen: 51.806 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion: 83 Resp: 296925
 Ion Ratio Lower Upper
 83 100
 85 64.6 46.5 86.3
 127 7.8 6.6 10.0





#39

cis-1,3-Dichloropropene

Concen: 52.187 ug/L

RT: 7.26 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

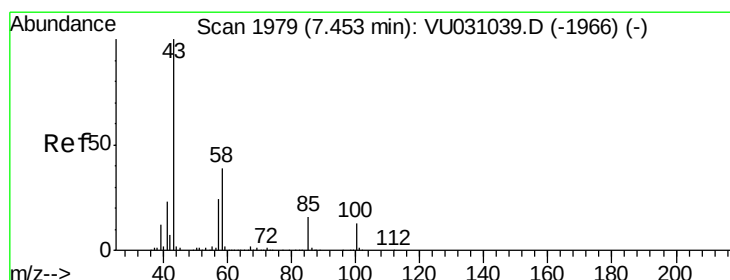
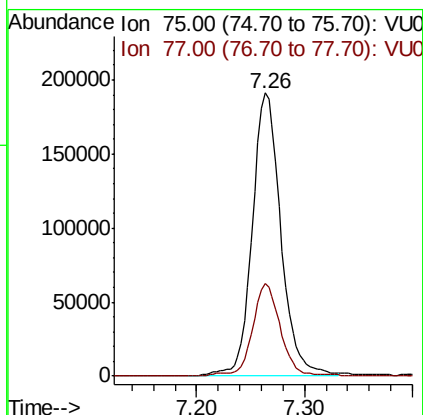
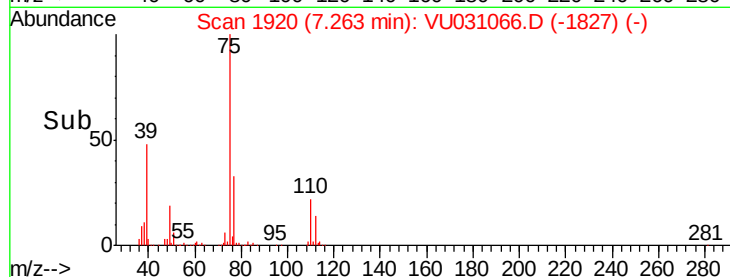
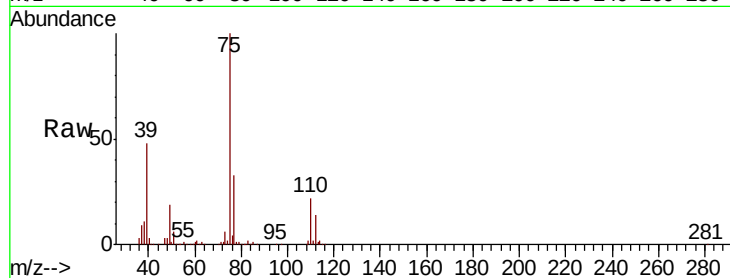
VSTD05060

Tot Ion: 75 Resp: 352907

Ion Ratio Lower Upper

75 100

77 32.6 23.1 42.9



#40

4-Methyl-2-pentanone

Concen: 94.964 ug/L

RT: 7.45 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

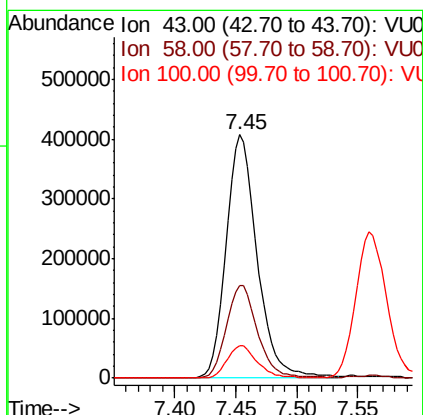
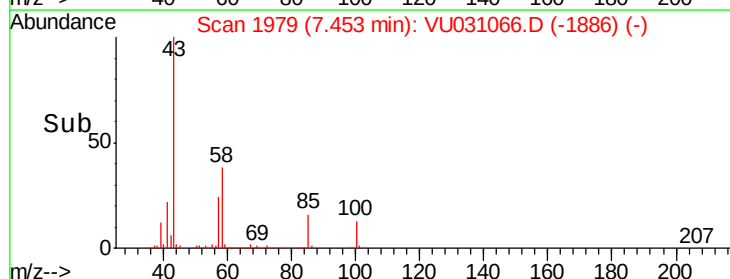
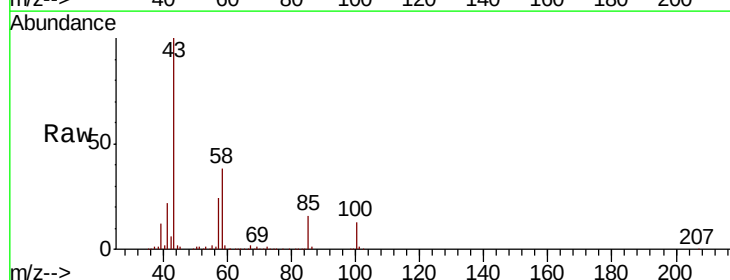
Tgt Ion: 43 Resp: 725526

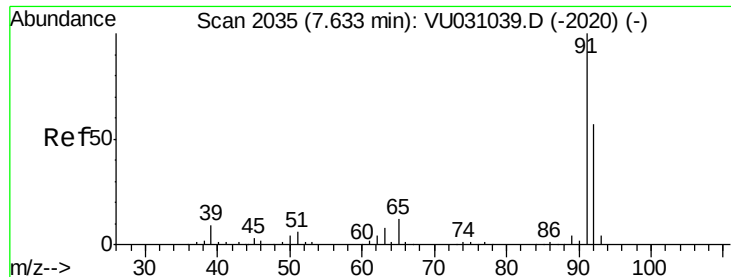
Ion Ratio Lower Upper

43 100

58 38.3 29.7 44.5

100 13.1 9.8 14.6





#42

Toluene

Concen: 52.728 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

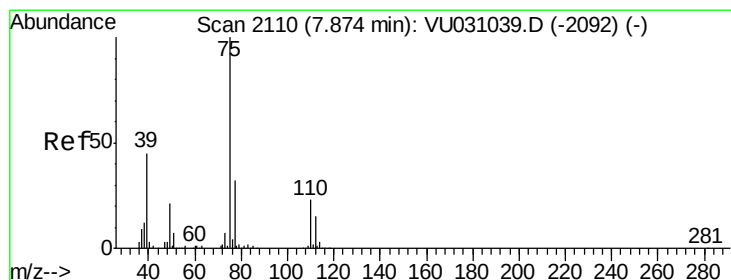
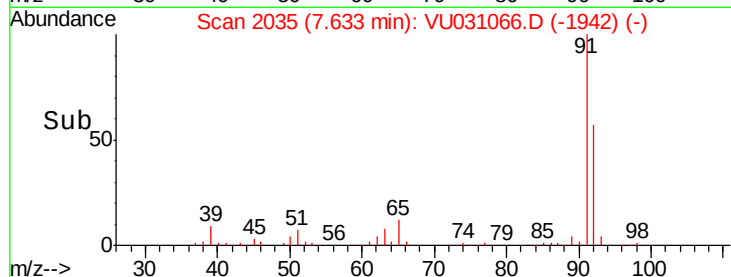
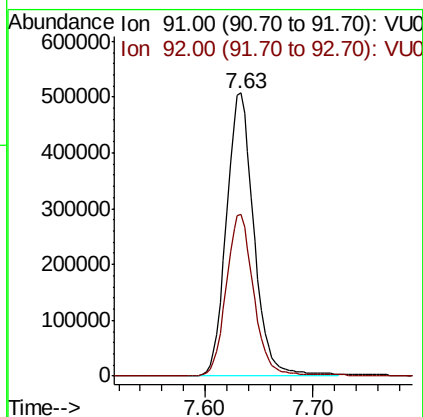
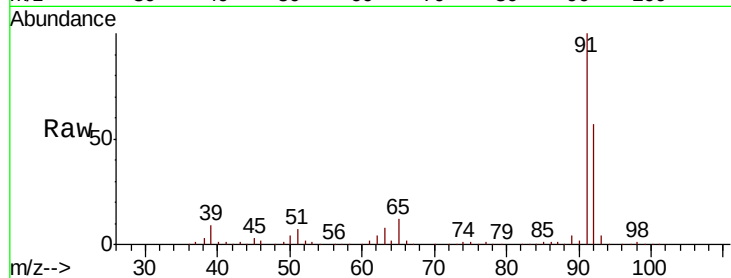
VSTD05060

Tot Ion: 91 Resp: 903068

Ion Ratio Lower Upper

91 100

92 57.0 40.0 74.4



#44

trans-1,3-Dichloropropene

Concen: 52.190 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU031066.D

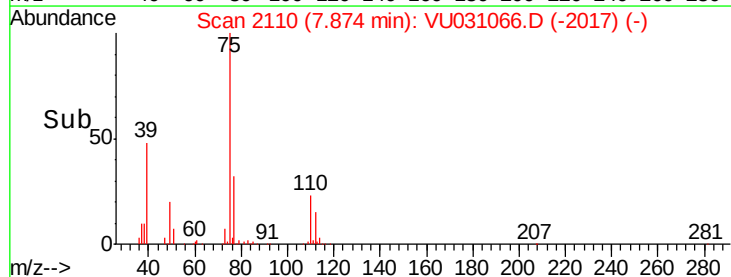
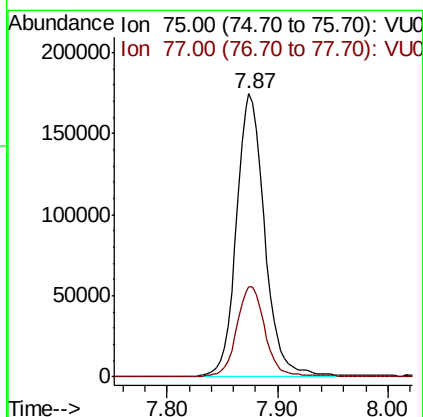
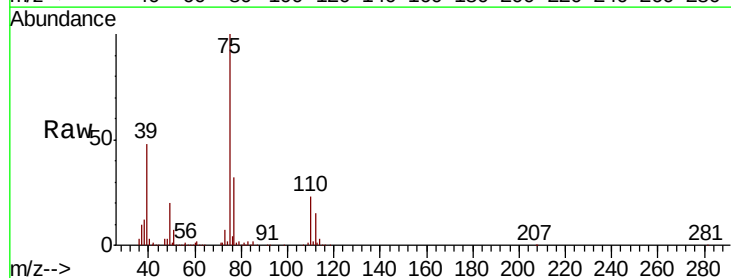
Acq: 11 Apr 2019 14:15

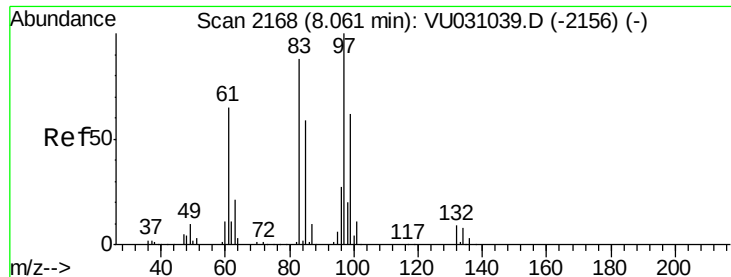
Tgt Ion: 75 Resp: 311023

Ion Ratio Lower Upper

75 100

77 31.9 21.6 40.0

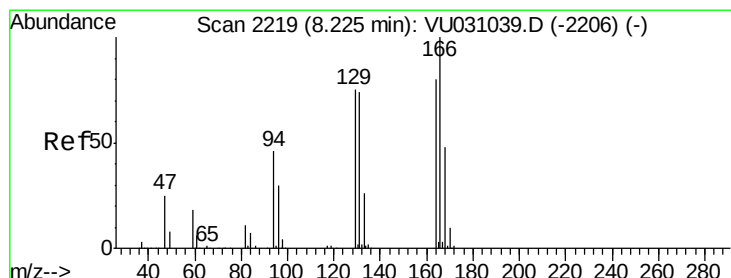
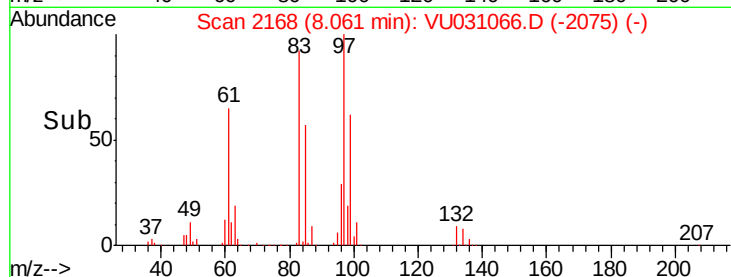
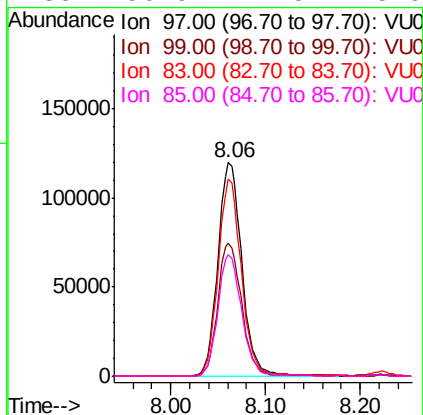
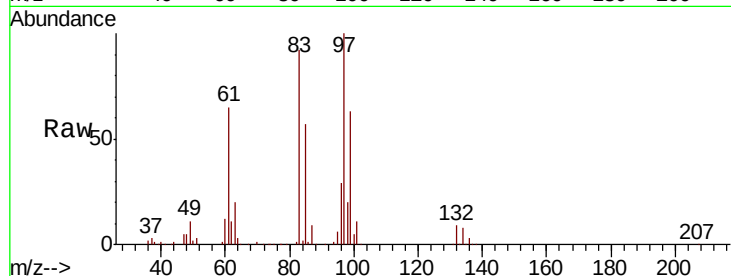




#45
 1,1,2-Trichloroethane
 Concen: 52.394 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

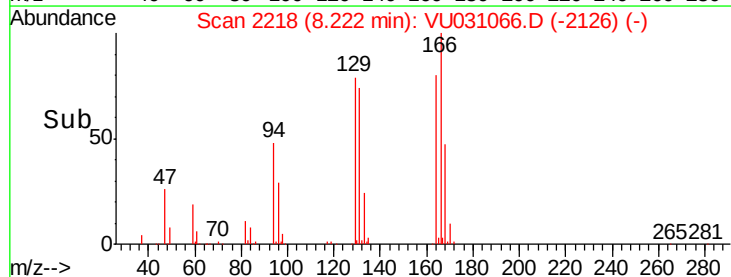
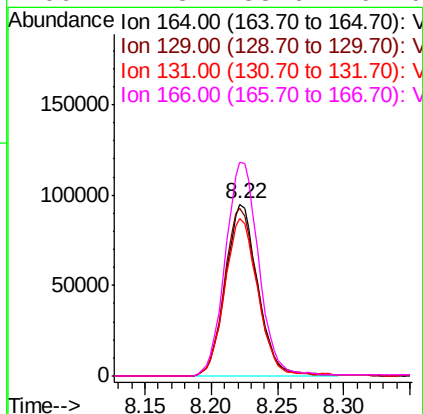
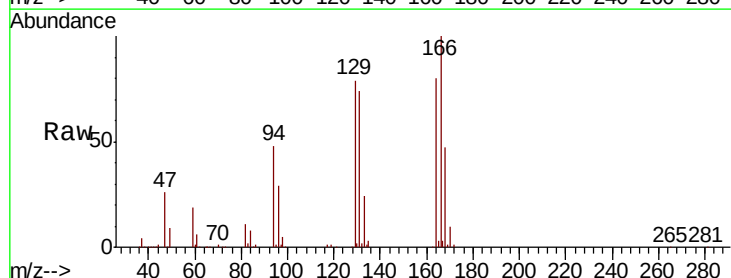
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

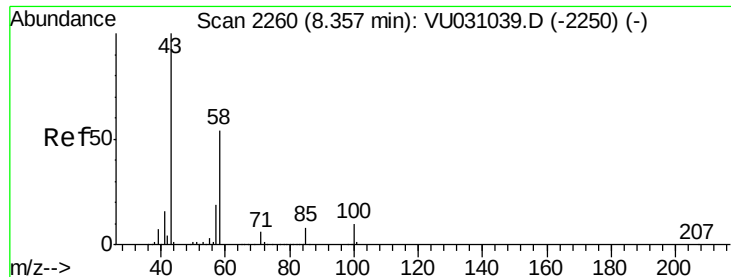
Tot Ion:	97	Resp:	211111
Ion	Ratio	Lower	Upper
97	100		
99	62.5	44.0	81.8
83	92.1	65.3	121.3
85	56.9	42.5	78.9



#46
 Tetrachloroethene
 Concen: 54.159 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion:	164	Resp:	162038
Ion	Ratio	Lower	Upper
164	100		
129	97.6	67.4	125.2
131	91.7	65.9	122.5
166	124.3	88.6	164.6

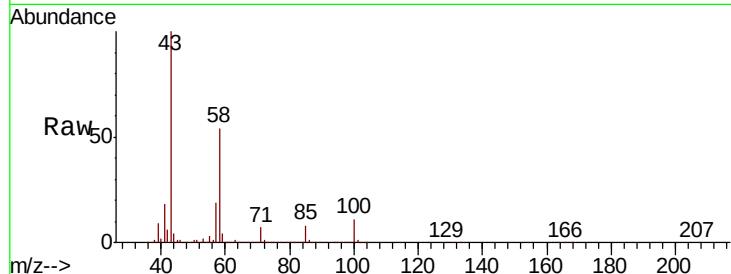




#48
2-Hexanone
Concen: 99.282 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion	43	Resp	591783
Ion Ratio	Lower	Upper	
43	100		
58	53.4	41.9	62.9
57	19.0	14.3	21.5
100	10.2	7.1	10.7



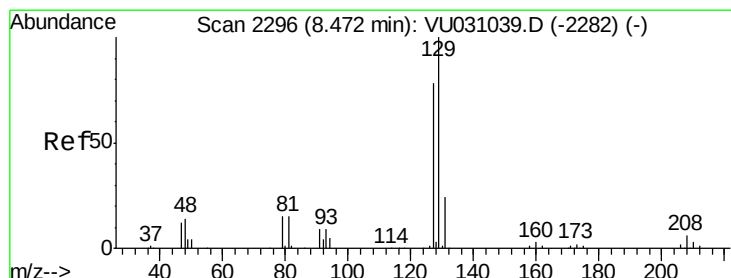
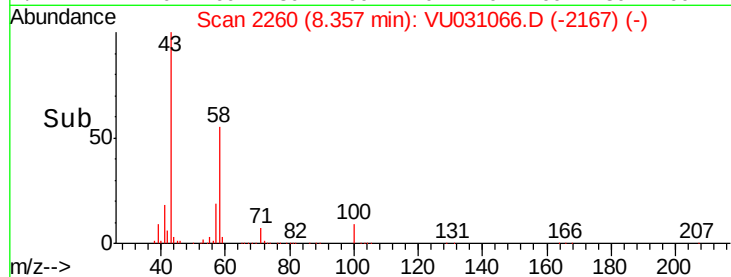
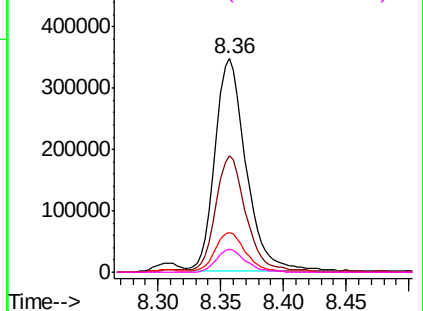
Abundance

Ion 43.00 (42.70 to 43.70): VU031039.D (-2250) (-)

Ion 58.00 (57.70 to 58.70): VU031039.D (-2250) (-)

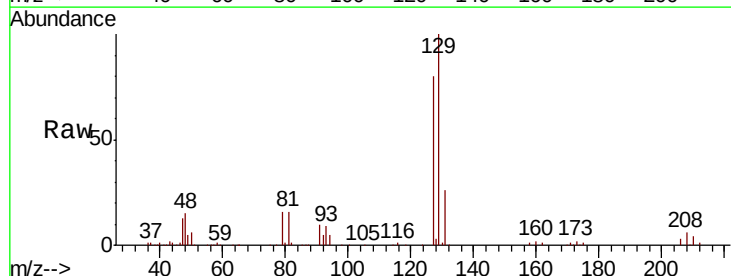
Ion 57.00 (56.70 to 57.70): VU031039.D (-2250) (-)

Ion 100.00 (99.70 to 100.70): VU031039.D (-2250) (-)



#49
Dibromochloromethane
Concen: 52.152 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

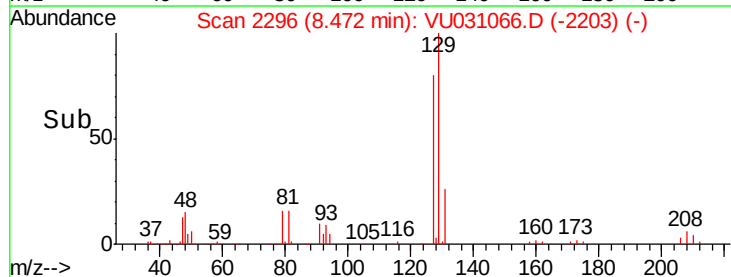
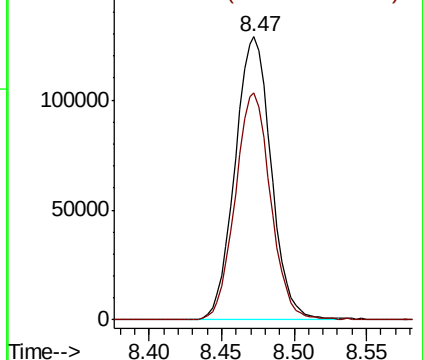
Tgt Ion	129	Resp	222977
Ion Ratio	Lower	Upper	
129	100		
127	80.2	54.5	101.3

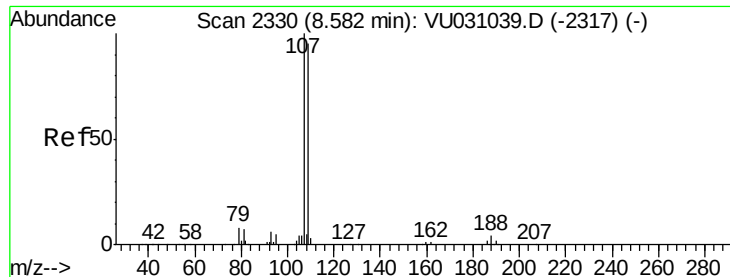


Abundance

Ion 129.00 (128.70 to 129.70): VU031039.D (-2282) (-)

Ion 127.00 (126.70 to 127.70): VU031039.D (-2282) (-)

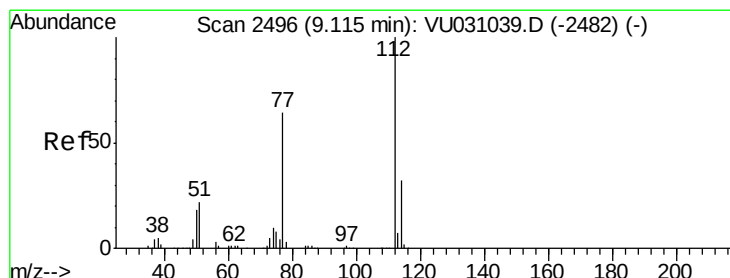
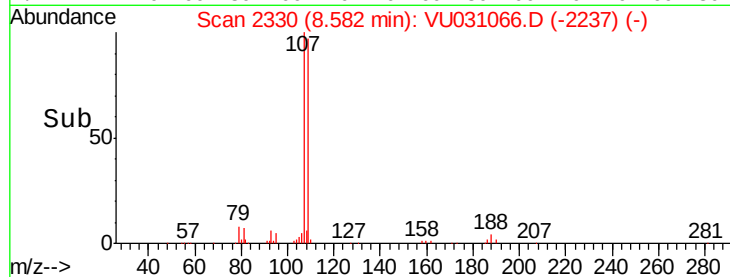
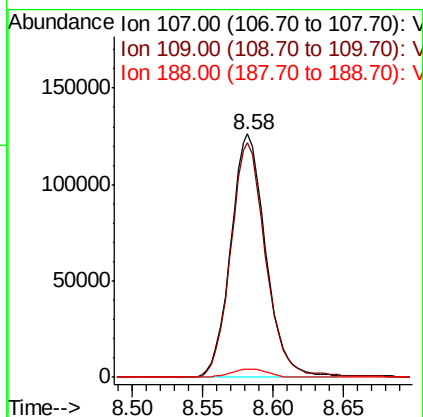
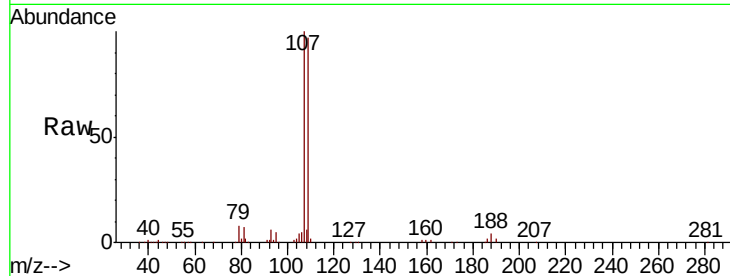




#50
 1,2-Dibromoethane
 Concen: 50.248 ug/L
 RT: 8.58 min Scan# 2330
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

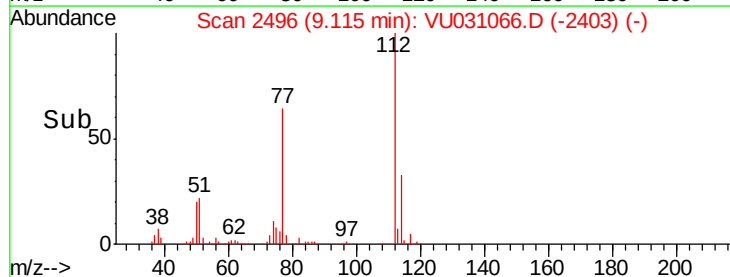
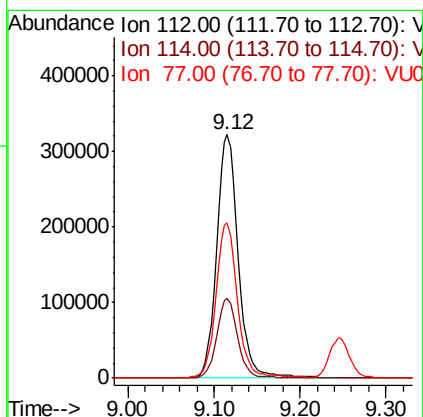
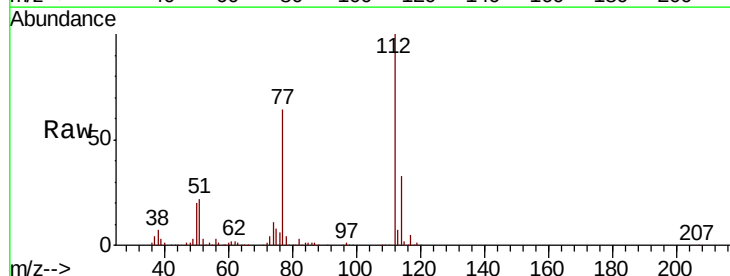
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

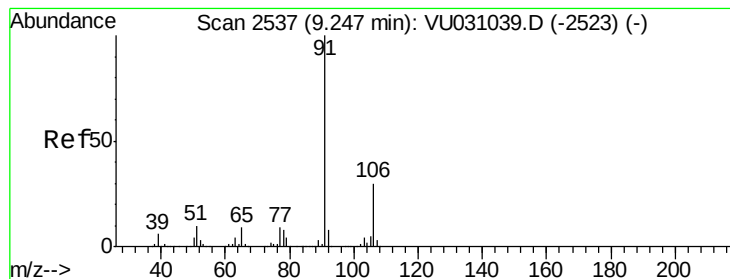
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.6	66.4	123.2
188	3.5	2.6	4.0



#51
 Chlorobenzene
 Concen: 53.445 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.2	41.2
77	63.7	51.7	77.5





#52

Ethylbenzene

Concen: 52.774 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

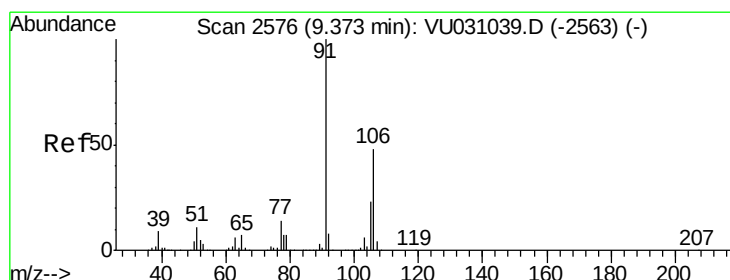
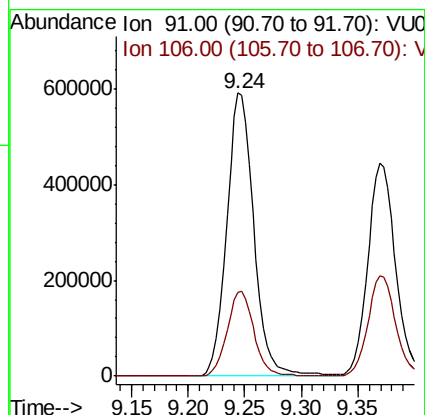
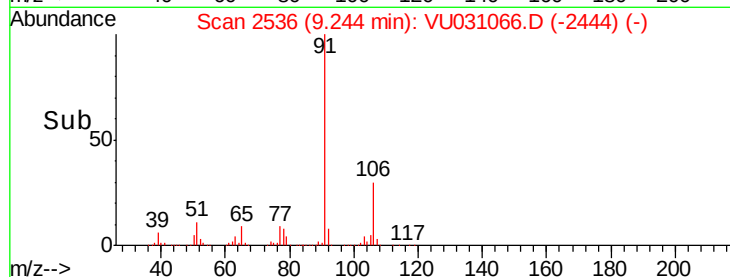
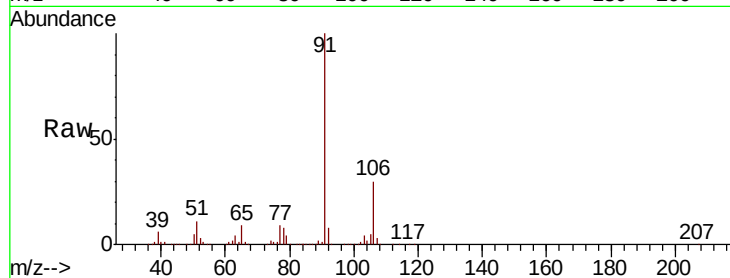
VSTD05060

Tot Ion: 91 Resp: 985236

Ion Ratio Lower Upper

91 100

106 29.8 20.4 37.8



#53

m,p-Xylene

Concen: 54.520 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU031066.D

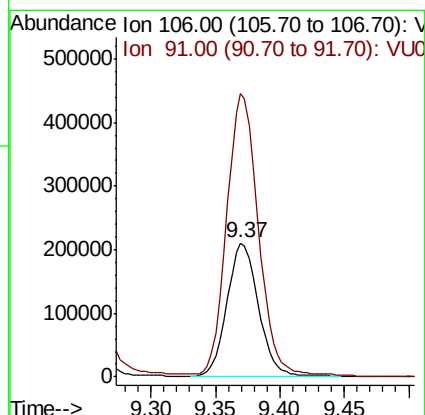
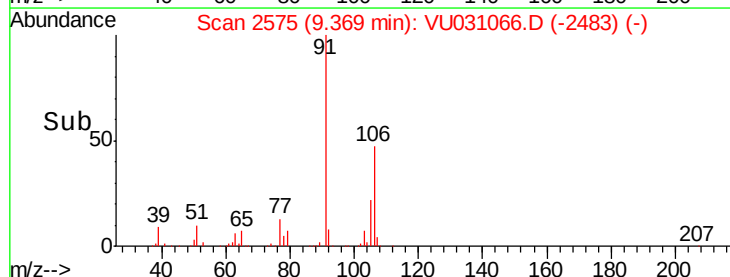
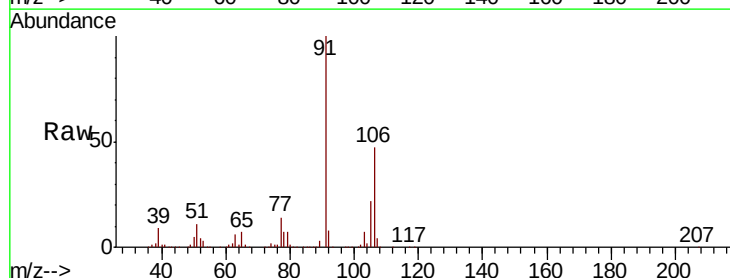
Acq: 11 Apr 2019 14:15

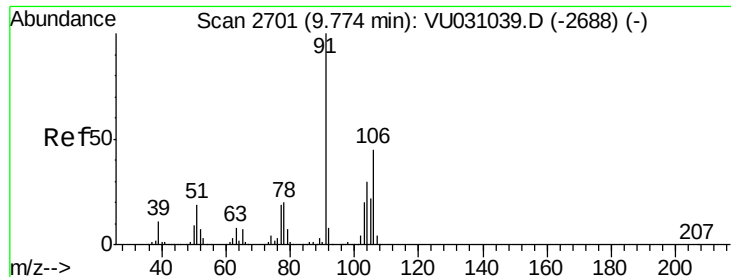
Tgt Ion: 106 Resp: 354985

Ion Ratio Lower Upper

106 100

91 211.4 148.0 274.8

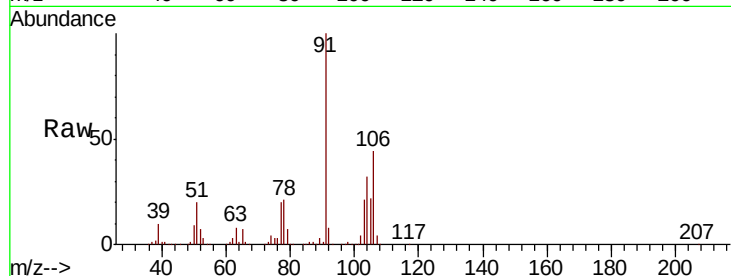




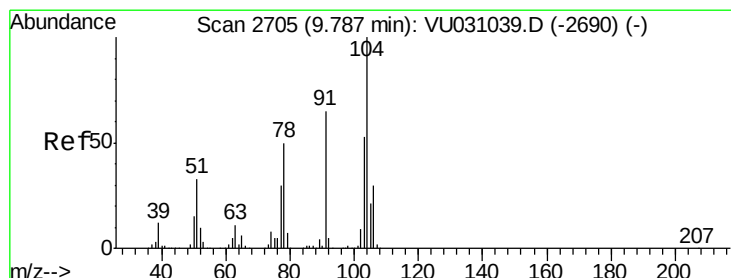
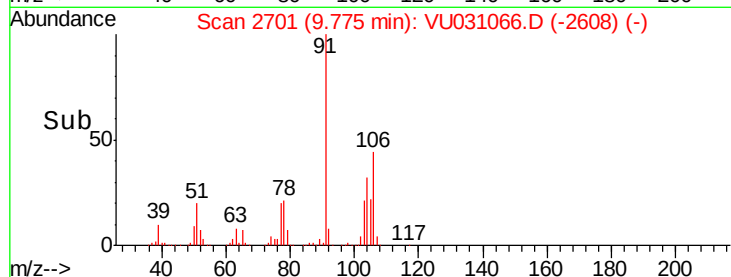
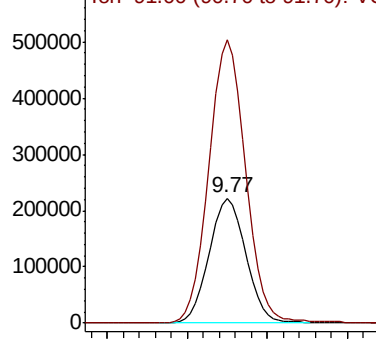
#54
o-xylene
Concen: 53.771 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD05060

Tot Ion:106 Resp: 348245
Ion Ratio Lower Upper
106 100
91 226.4 156.7 290.9

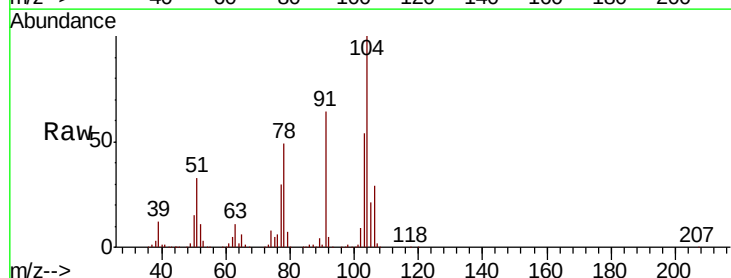


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

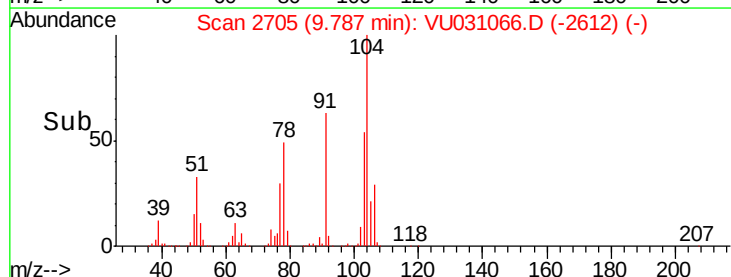
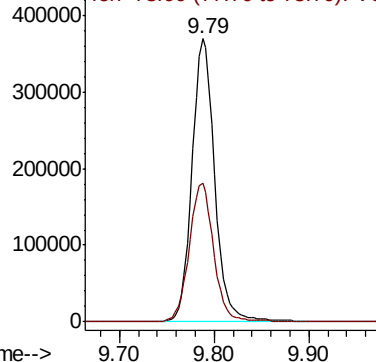


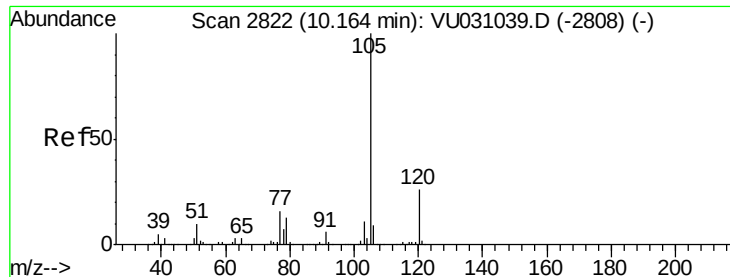
#55
Styrene
Concen: 55.518 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU031066.D
Acq: 11 Apr 2019 14:15

Tgt Ion:104 Resp: 616742
Ion Ratio Lower Upper
104 100
78 49.1 35.1 65.1



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





#56

Isopropylbenzene

Concen: 54.715 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

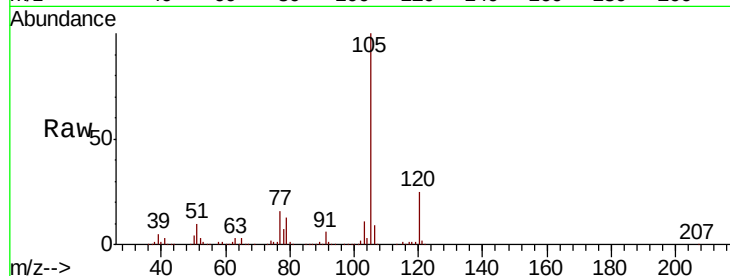
Tot Ion:105 Resp: 932985

Ion Ratio Lower Upper

105 100

120 25.0 20.4 30.6

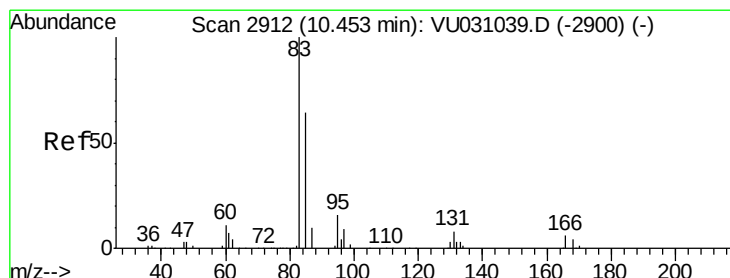
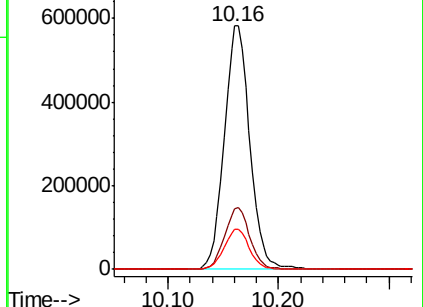
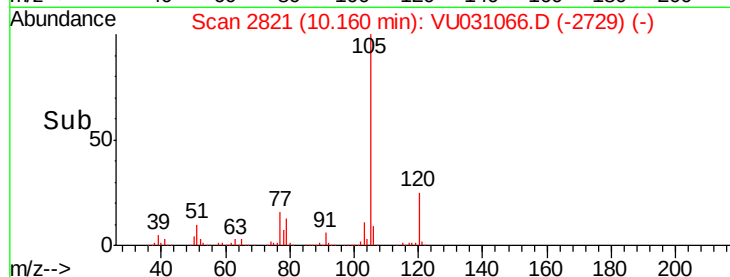
77 16.1 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.486 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

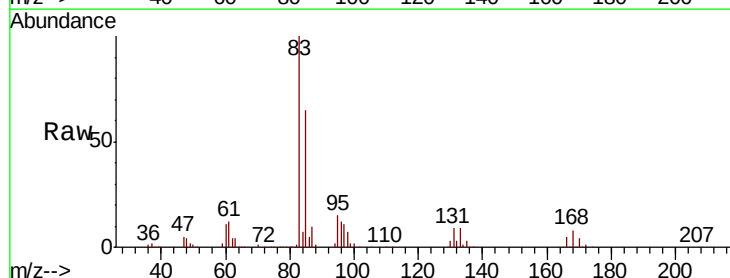
Tgt Ion: 83 Resp: 360662

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

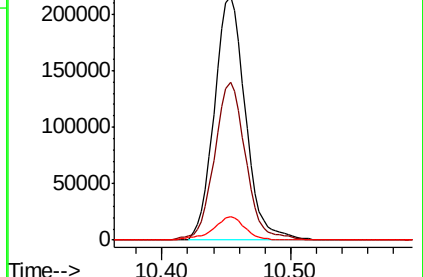
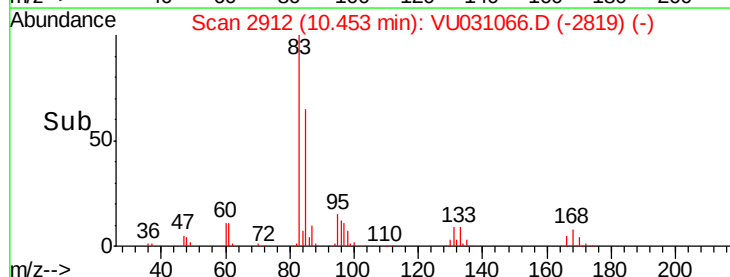
131 9.4 6.7 10.1

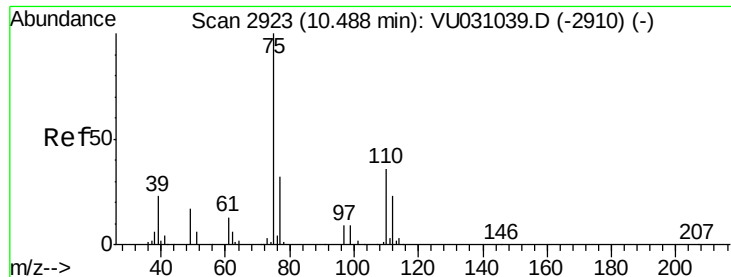


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

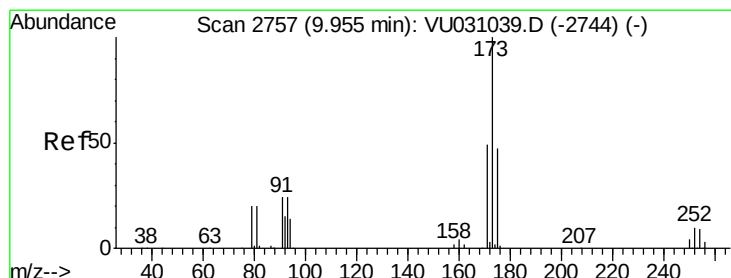
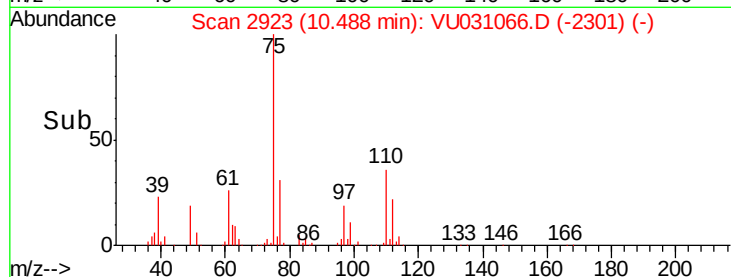
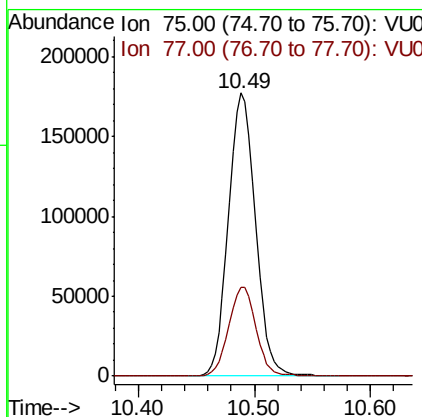
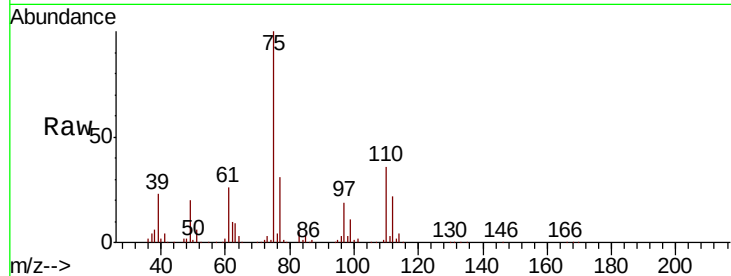




#59
 1,2,3-Trichloropropane
 Concen: 50.122 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

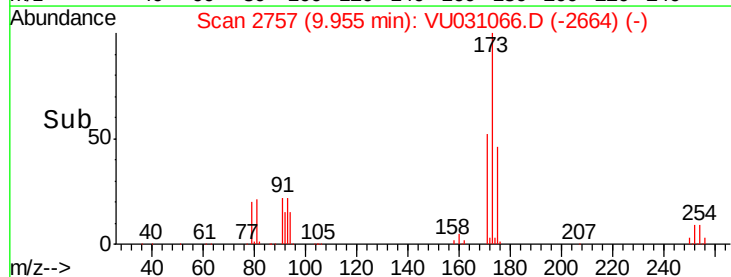
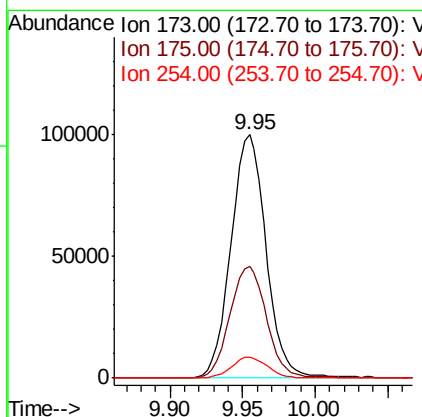
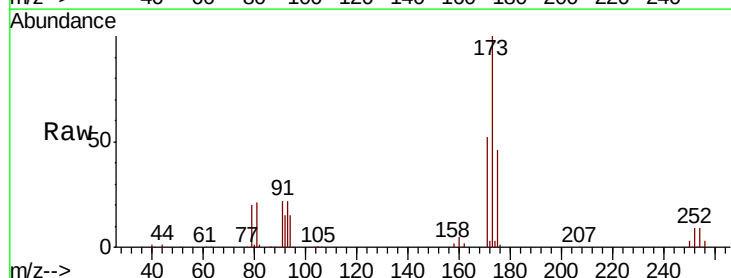
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

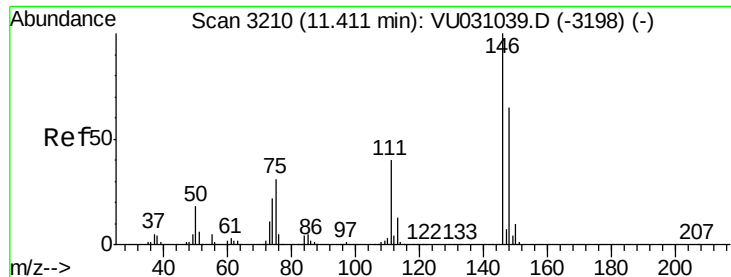
Tot Ion: 75 Resp: 285203
 Ion Ratio Lower Upper
 75 100
 77 31.7 26.1 39.1



#61
 Bromoform
 Concen: 50.642 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion: 173 Resp: 167681
 Ion Ratio Lower Upper
 173 100
 175 48.1 39.1 58.7
 254 8.8 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 51.901 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD05060

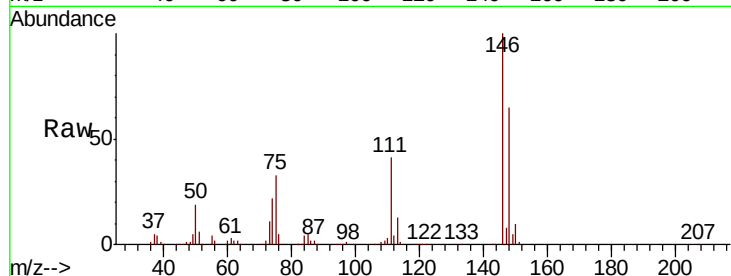
Tot Ion:146 Resp: 411142

Ion Ratio Lower Upper

146 100

111 41.4 30.9 57.5

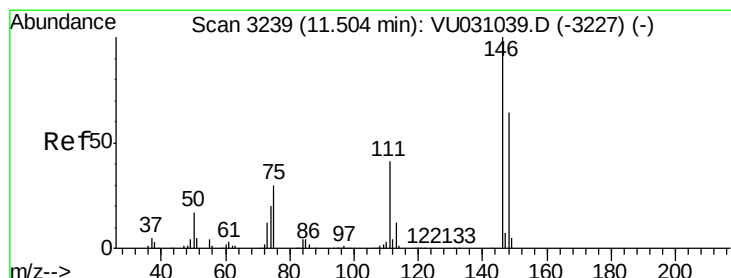
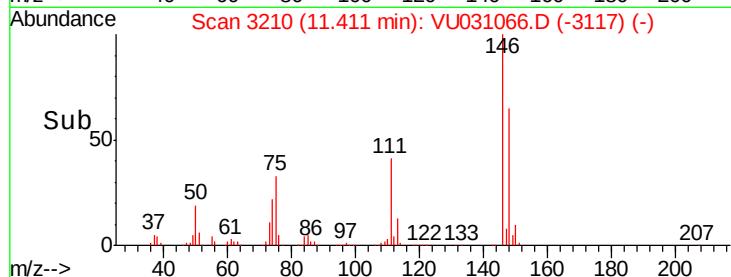
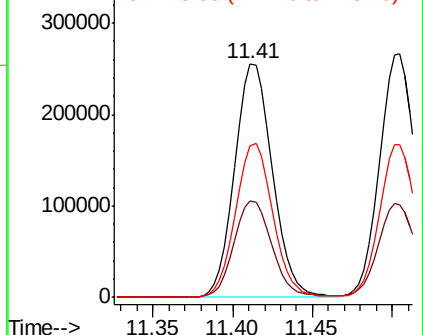
148 64.7 44.7 82.9



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: 53.476 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

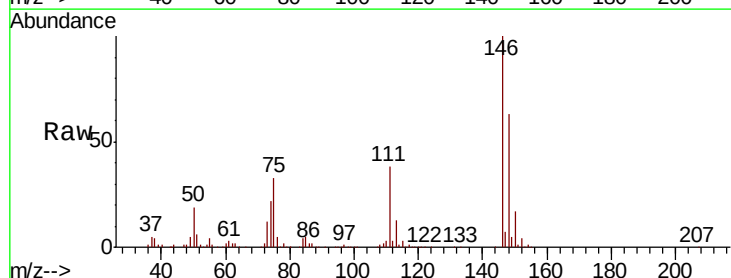
Tgt Ion:146 Resp: 430896

Ion Ratio Lower Upper

146 100

111 38.3 27.7 51.5

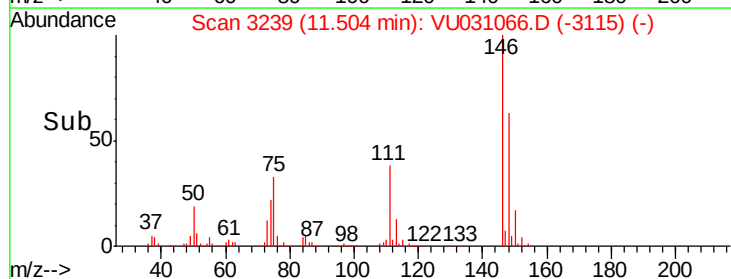
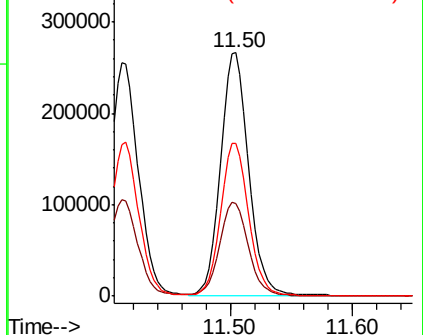
148 62.8 45.4 84.4

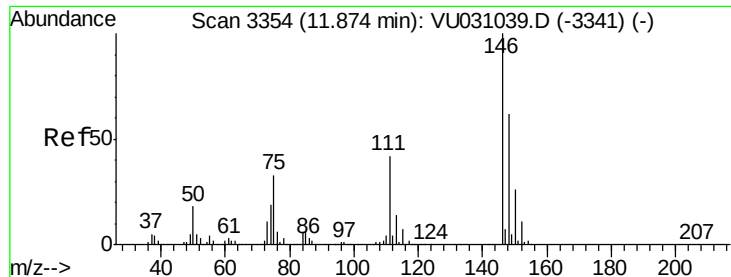


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

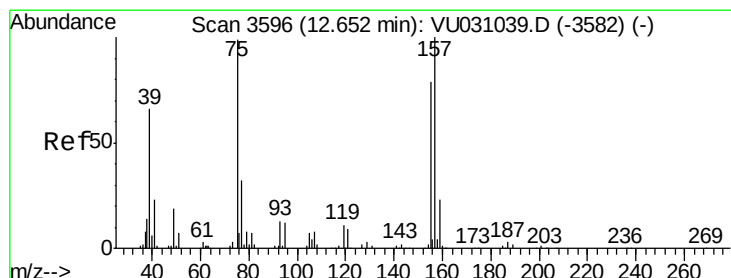
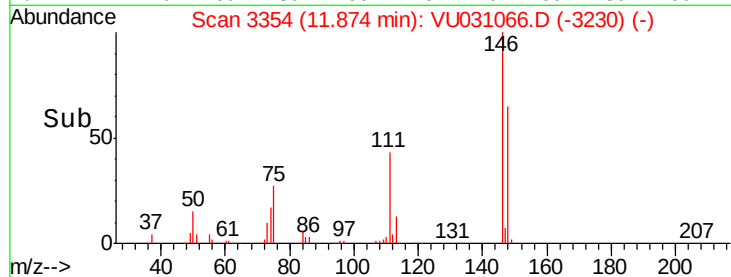
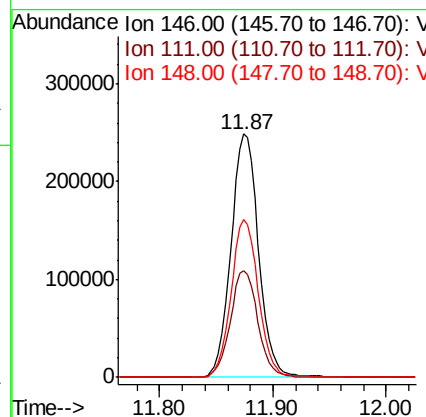
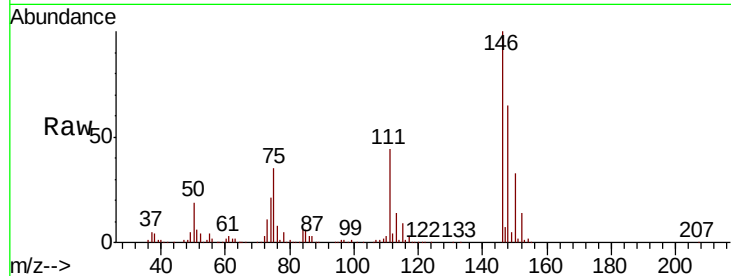




#65
 1,2-Dichlorobenzene
 Concen: 52.815 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

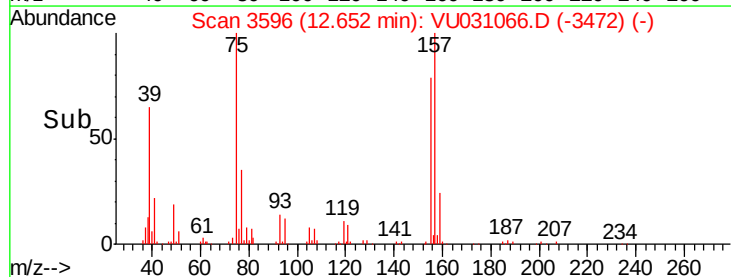
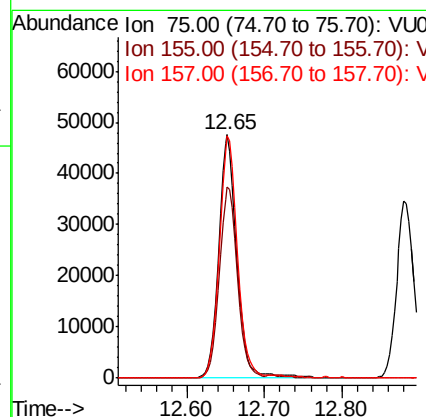
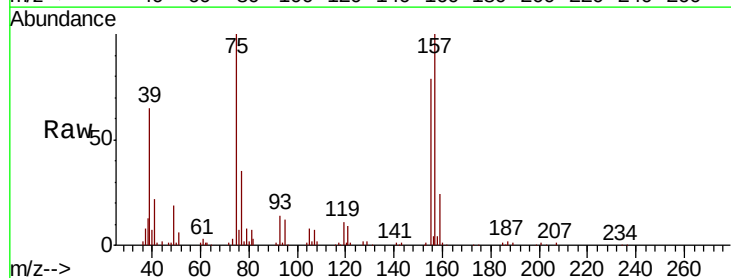
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

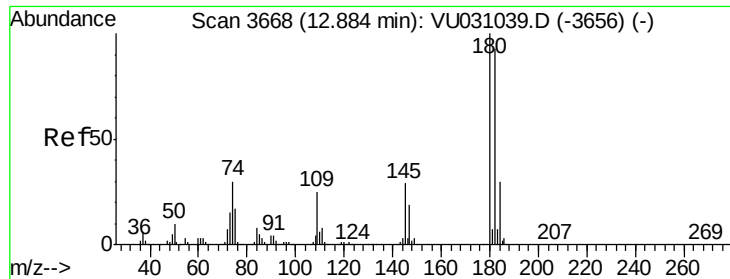
Tot Ion:146 Resp: 419669
 Ion Ratio Lower Upper
 146 100
 111 44.1 34.9 52.3
 148 65.0 50.4 75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 46.965 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion: 75 Resp: 79334
 Ion Ratio Lower Upper
 75 100
 155 78.7 64.1 96.1
 157 99.6 80.6 120.8

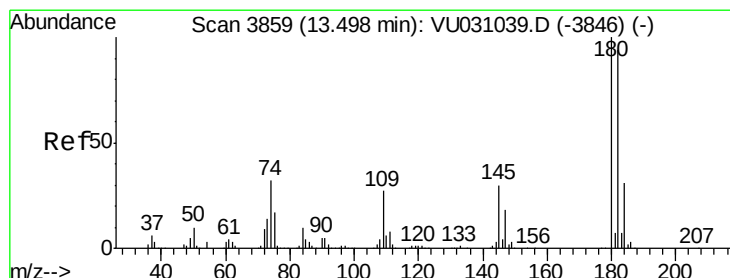
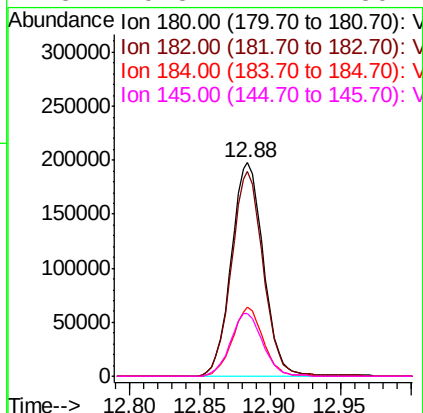
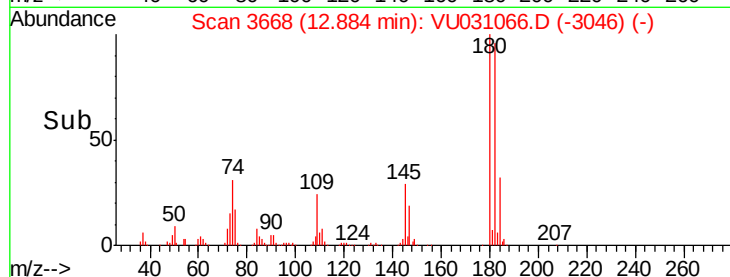
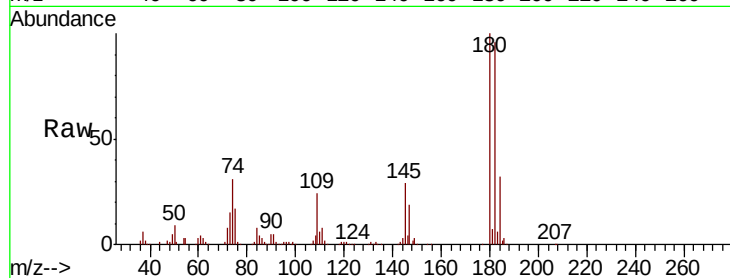




#67
 1,3,5-Trichlorobenzene
 Concen: 54.631 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

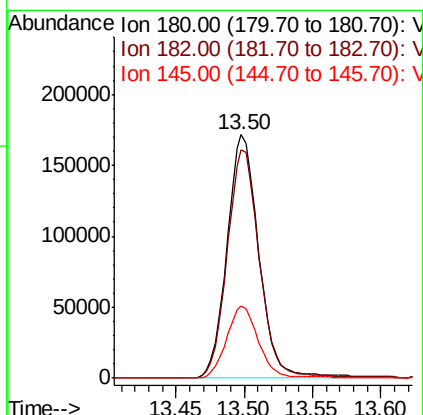
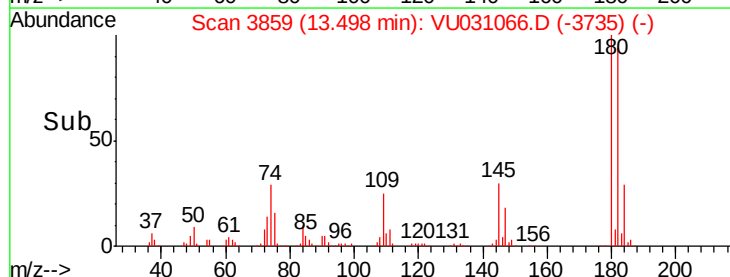
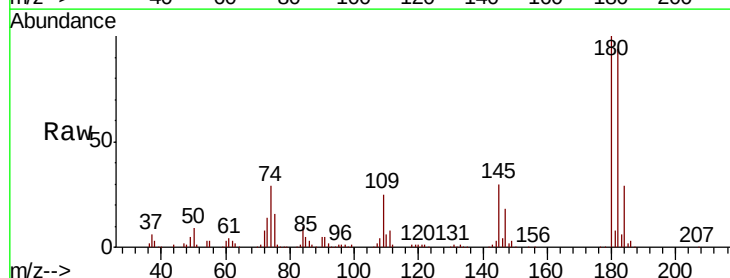
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05060

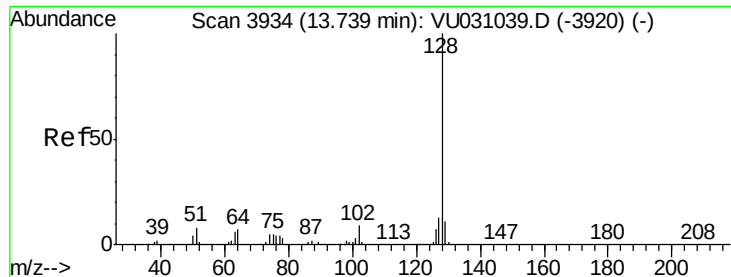
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.5	78.3	117.5
184	30.9	24.7	37.1
145	29.3	24.2	36.4



#68
 1,2,4-trichlorobenzene
 Concen: 56.397 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU031066.D
 Acq: 11 Apr 2019 14:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.7	115.1
145	29.6	24.4	36.6





#69

Naphthalene

Concen: 54.803 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Instrument :

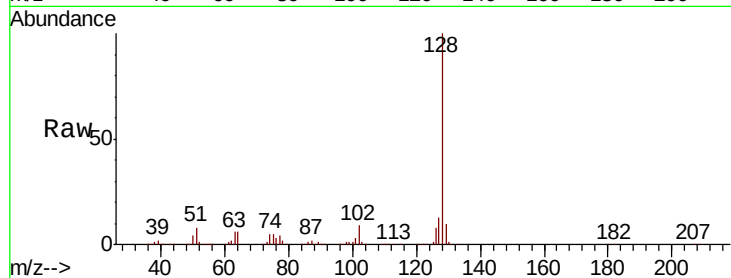
MSVOA_U

ClientSampleId :

VSTD05060

Tot Ion:128 Resp: 874490

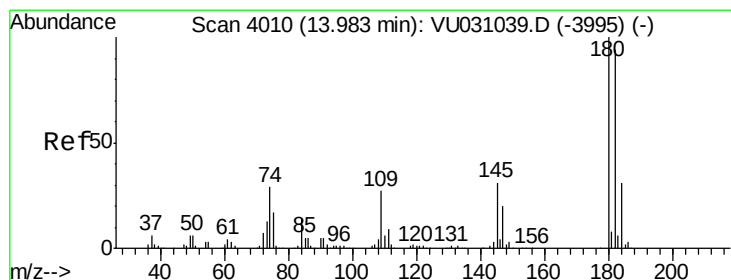
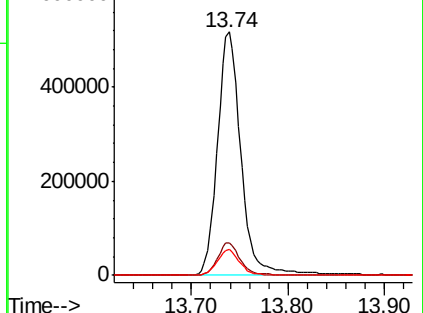
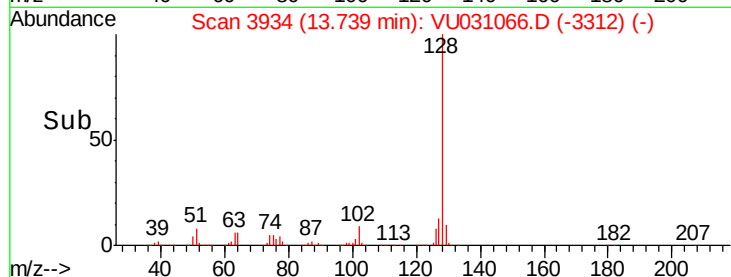
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.2	8.6	12.8



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: 54.777 ug/L

RT: 13.98 min Scan# 4010

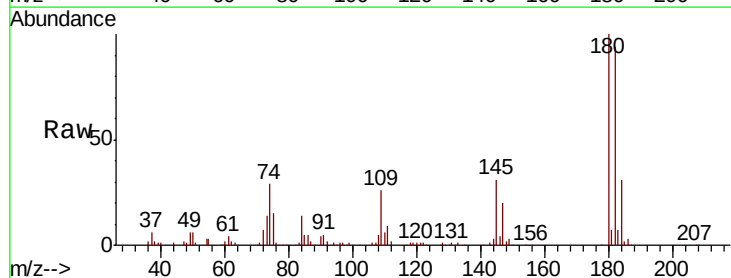
Delta R.T. 0.00 min

Lab File: VU031066.D

Acq: 11 Apr 2019 14:15

Tgt Ion:180 Resp: 281704

Ion	Ratio	Lower	Upper
180	100		
182	96.0	78.1	117.1
145	31.7	26.6	40.0



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

