

Data File : VU031493.D
Acq On : 25 Apr 2019 09:30
Operator : JC/SP
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFB04

Quant Time: Apr 26 01:33:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR042419WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Apr 25 06:05:25 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	300892	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	310570	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	136584	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	117865	4.89	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.80%
7) Chloroethane-d5	1.68	69	95486	5.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.80%
11) 1,1-Dichloroethene-d2	2.27	63	237743	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	104.80%
20) 2-Butanone-d5	4.21	46	378783	58.65	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.30%
24) Chloroform-d	4.64	84	212784	5.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.40%
26) 1,2-Dichloroethane-d4	5.31	65	117318	5.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.40%
32) Benzene-d6	5.33	84	403704	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.33	67	135441	4.94	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.80%
41) Toluene-d8	7.56	98	361900	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
43) trans-1,3-Dichloropropene-	7.85	79	52394	4.88	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.60%
46) 2-Hexanone-d5	8.31	63	247987	46.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.62%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	116129	5.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	119530	4.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	154480	5.983 ug/L	98
3) Chloromethane	1.32	50	180770	5.683 ug/L	98
5) Vinyl chloride	1.40	62	176310	5.615 ug/L	97
6) Bromomethane	1.63	94	89065	5.524 ug/L	98
8) Chloroethane	1.70	64	99453	5.596 ug/L	98
9) Trichlorofluoromethane	1.88	101	211276	5.843 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	119153	5.698 ug/L	96
12) 1,1-Dichloroethene	2.28	96	111523	5.334 ug/L	95
13) Acetone	2.35	43	282830	61.630 ug/L	99
14) Carbon disulfide	2.47	76	381568	5.489 ug/L	99
15) Methyl Acetate	2.63	43	71926	5.676 ug/L	97
16) Methylene chloride	2.70	84	127568	5.395 ug/L	96
17) Methyl tert-butyl Ether	3.00	73	321915	5.454 ug/L	98
18) trans-1,2-Dichloroethene	2.98	96	117691	5.346 ug/L	96
19) 1,1-Dichloroethane	3.44	63	242034	5.779 ug/L	99
21) 2-Butanone	4.29	43	428810	61.455 ug/L	98
22) cis-1,2-Dichloroethene	4.22	96	122565	5.380 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	55679	5.682	ug/L	95
25) Chloroform	4.67	83	229464	5.906	ug/L	96
27) 1,2-Dichloroethane	5.40	62	154085	6.035	ug/L	98
29) 1,1,1-Trichloroethane	4.91	97	192154	5.409	ug/L	99
30) Cyclohexane	4.99	56	200503	4.688	ug/L	99
31) Carbon tetrachloride	5.13	117	163934	5.364	ug/L	99
33) Benzene	5.38	78	493277	5.140	ug/L	100
34) Trichloroethene	6.18	95	123606	4.887	ug/L	96
35) Methylcyclohexane	6.41	83	175843	4.699	ug/L	96
37) 1,2-Dichloropropane	6.43	63	135859	5.282	ug/L	100
38) Bromodichloromethane	6.75	83	164035	5.451	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	171315	4.792	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	960470	54.577	ug/L	97
42) Toluene	7.63	91	505315	5.245	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	142191	5.141	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	91748	5.236	ug/L	97
47) Tetrachloroethene	8.22	164	88729	5.021	ug/L	95
48) 2-Hexanone	8.36	43	718706	58.222	ug/L	97
49) Dibromochloromethane	8.47	129	103019	5.245	ug/L	99
50) 1,2-Dibromoethane	8.58	107	86569	5.146	ug/L #	94
51) Chlorobenzene	9.12	112	293720	5.027	ug/L	95
52) Ethylbenzene	9.25	91	507116	4.945	ug/L	99
53) m,p-Xylene	9.37	106	181191	4.962	ug/L	97
54) o-Xylene	9.77	106	175626	4.871	ug/L	95
55) Styrene	9.79	104	309973	5.197	ug/L	94
56) Isopropylbenzene	10.16	105	464801	4.879	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	121896	5.466	ug/L	93
59) 1,2,3-Trichloropropane	10.49	75	88347	5.453	ug/L	98
61) Bromoform	9.95	173	59104	5.500	ug/L	96
62) 1,3-Dichlorobenzene	11.41	146	199171	4.925	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	205572	4.881	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	204044	5.089	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	18898	5.635	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	157900	5.140	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	119294	4.929	ug/L	99
69) Naphthalene	13.74	128	203469	4.301	ug/L	98
70) 1,2,3-Trichlorobenzene	13.98	180	121964	5.106	ug/L	99

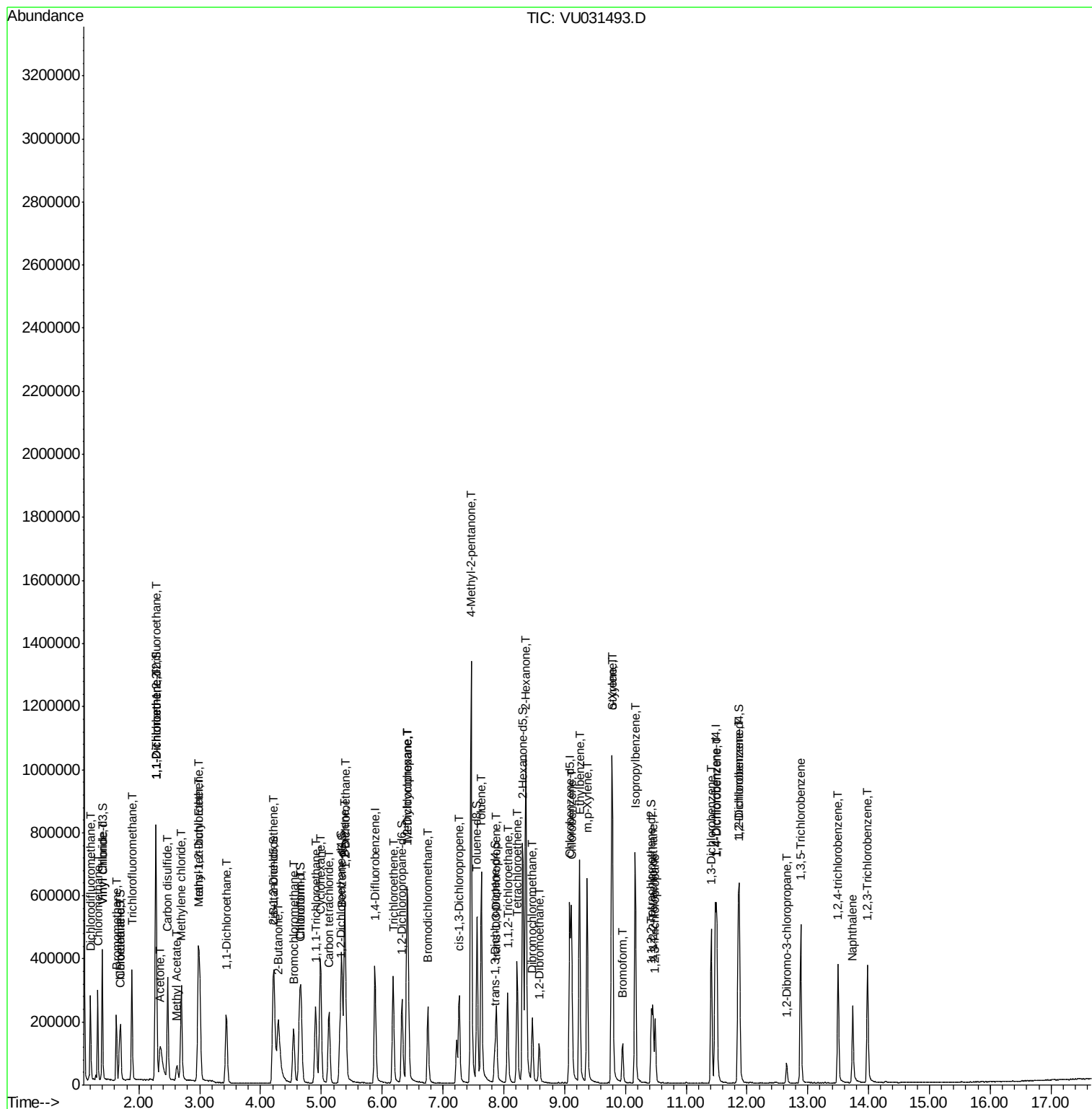
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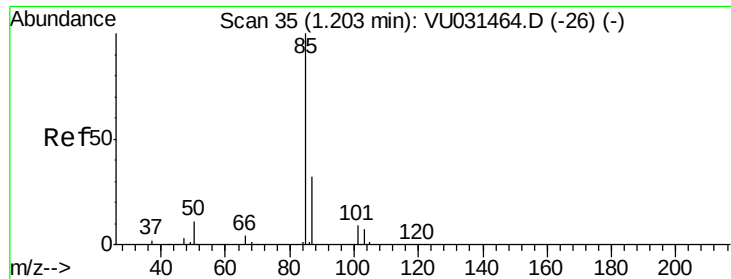
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#2

Dichlorodifluoromethane

Concen: 5.983 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

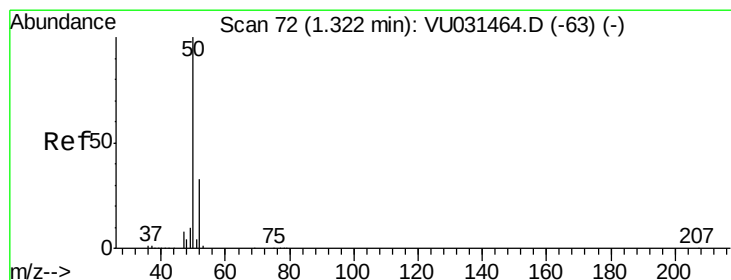
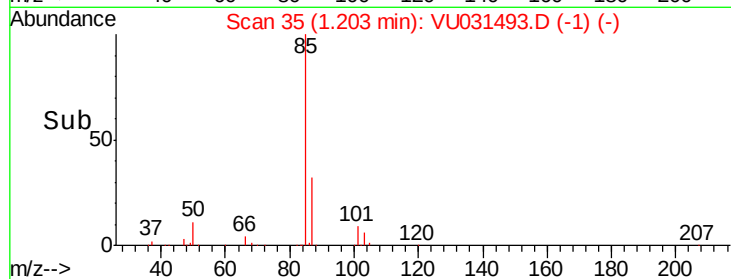
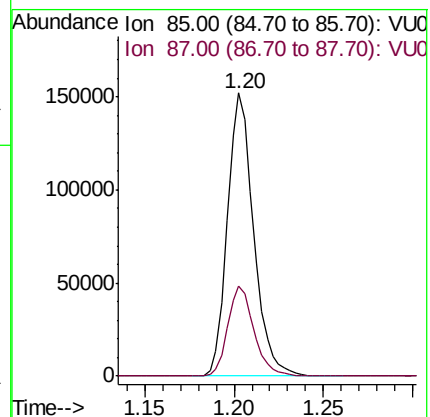
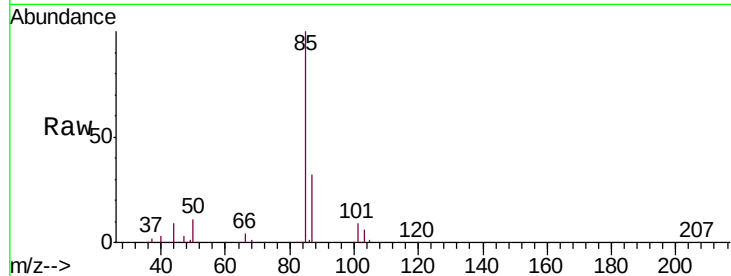
BFB04

Tgt Ion: 85 Resp: 154480

Ion Ratio Lower Upper

85 100

87 31.8 26.3 39.5



#3

Chloromethane

Concen: 5.683 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031493.D

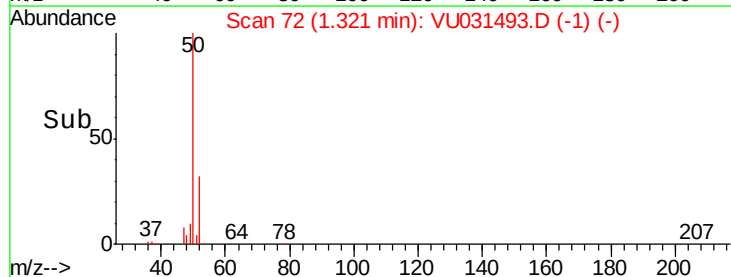
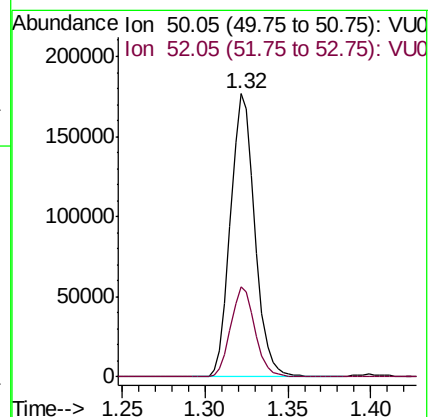
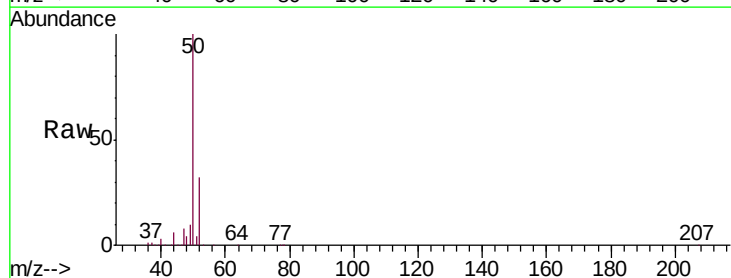
Acq: 25 Apr 2019 09:30

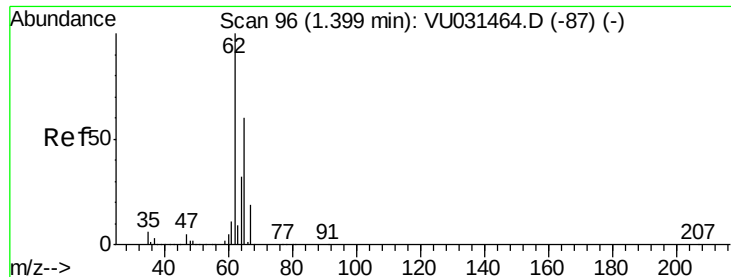
Tgt Ion: 50 Resp: 180770

Ion Ratio Lower Upper

50 100

52 31.8 23.0 42.8





#5

Vinyl chloride

Concen: 5.615 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

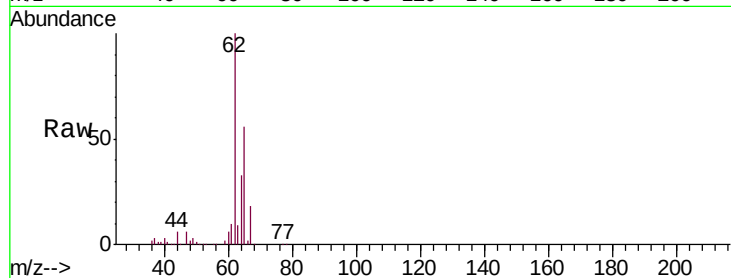
BFB04

Tgt Ion: 62 Resp: 176310

Ion Ratio Lower Upper

62 100

64 32.7 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VU031464.D (-87) (-)

Ion 64.10 (63.80 to 64.80): VU031464.D (-87) (-)

1.40

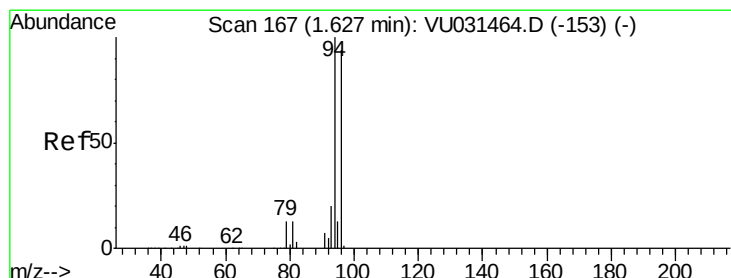
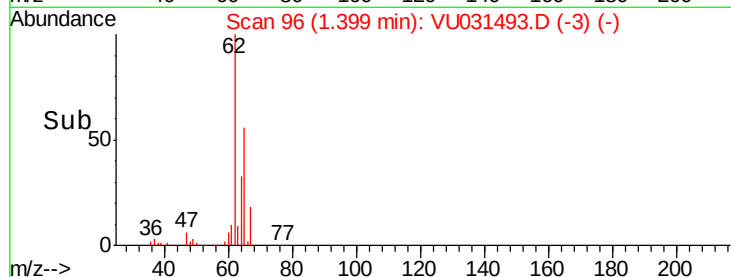
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 5.524 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU031493.D

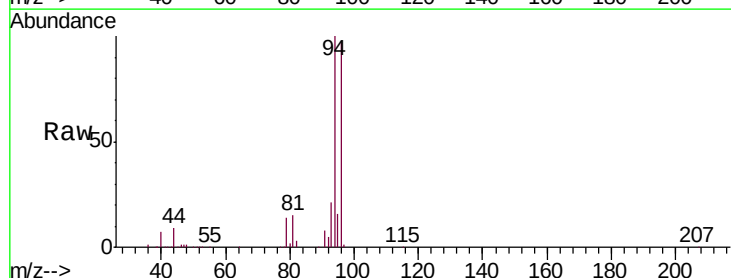
Acq: 25 Apr 2019 09:30

Tgt Ion: 94 Resp: 89065

Ion Ratio Lower Upper

94 100

96 97.1 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU031464.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU031464.D (-153) (-)

1.63

80000

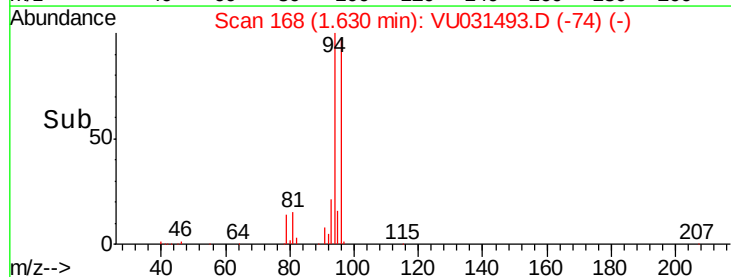
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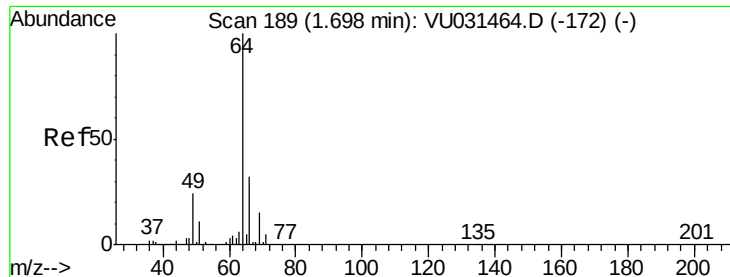
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20000

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Time-->

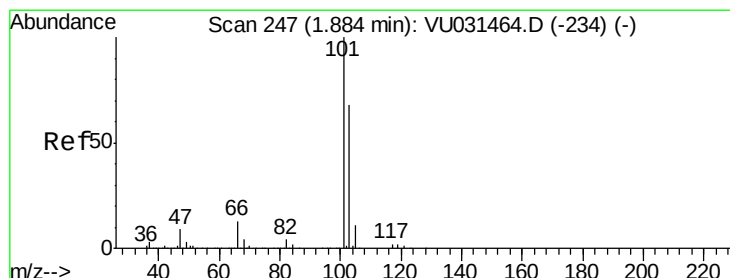
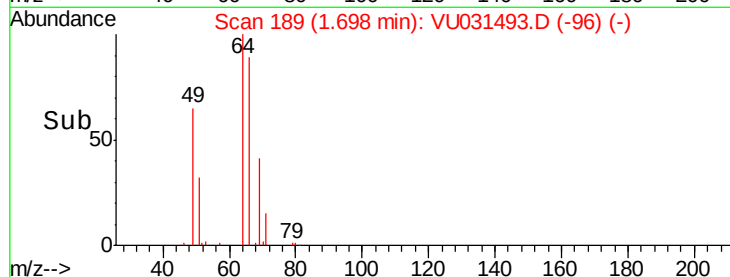
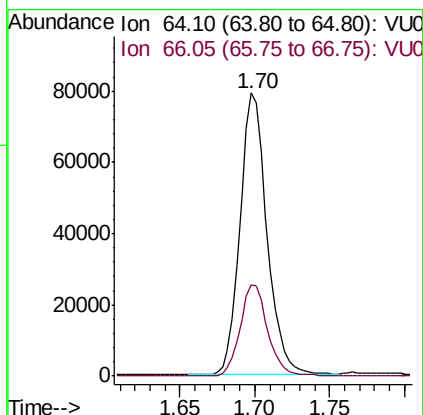
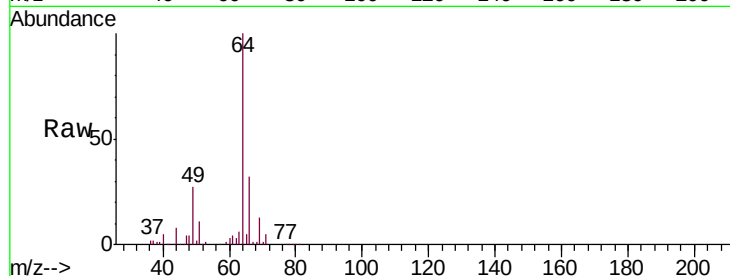




#8
Chloroethane
Concen: 5.596 ug/L
RT: 1.70 min Scan# 189
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

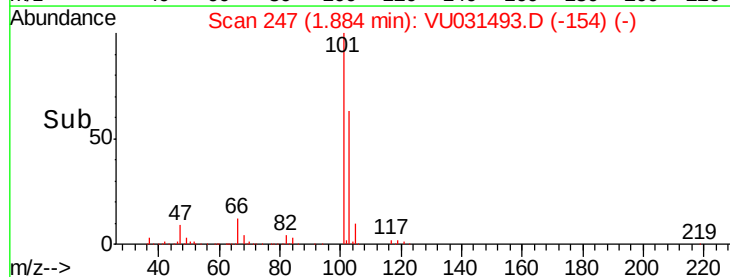
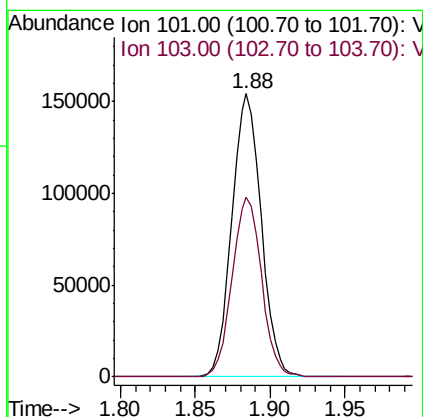
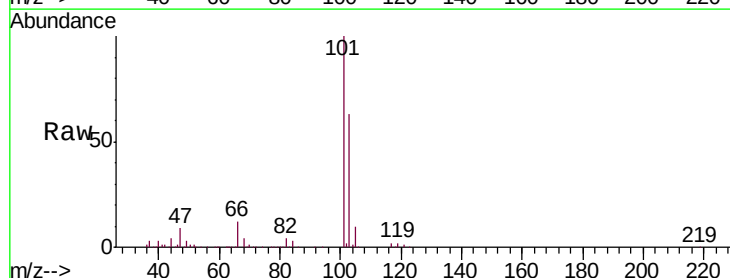
Instrument :
MSVOA_U
ClientSampleId :
BFB04

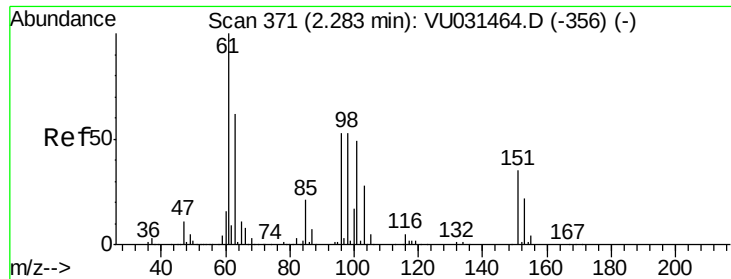
Tgt Ion: 64 Resp: 99453
Ion Ratio Lower Upper
64 100
66 32.4 22.0 40.8



#9
Trichlorofluoromethane
Concen: 5.843 ug/L
RT: 1.88 min Scan# 247
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Tgt Ion: 101 Resp: 211276
Ion Ratio Lower Upper
101 100
103 63.7 52.7 79.1





#10

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

Concen: 5.698 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampled :

BFB04

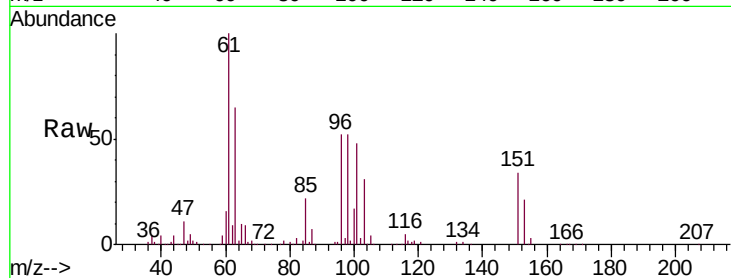
Tgt Ion: 101 Resp: 119153

Ion Ratio Lower Upper

101 100

85 44.4 35.8 53.6

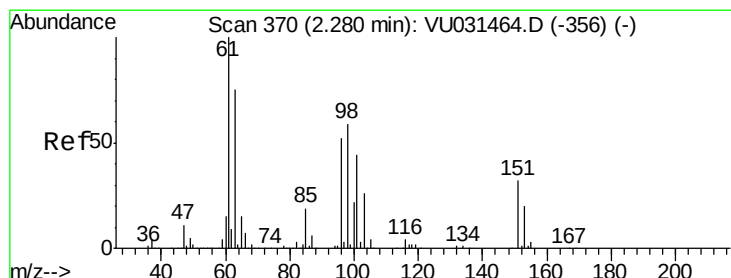
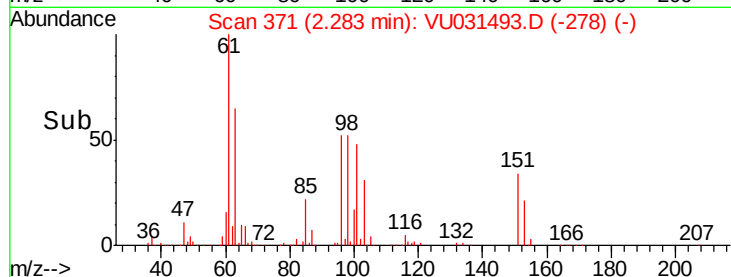
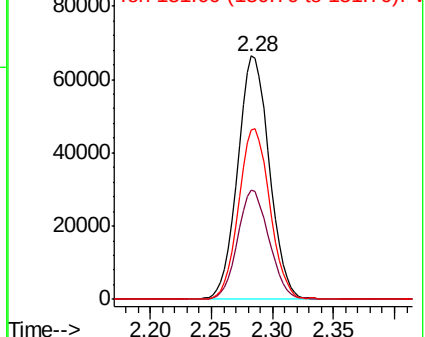
151 68.9 59.2 88.8



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: 5.334 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

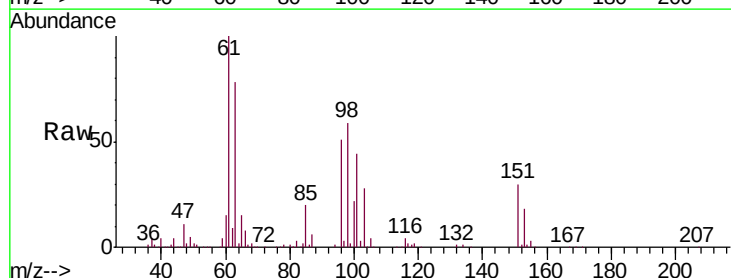
Tgt Ion: 96 Resp: 111523

Ion Ratio Lower Upper

96 100

61 194.6 131.3 243.8

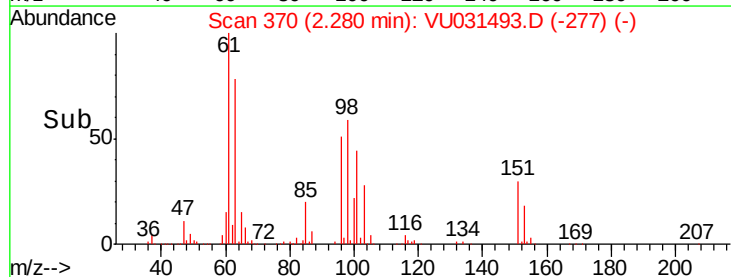
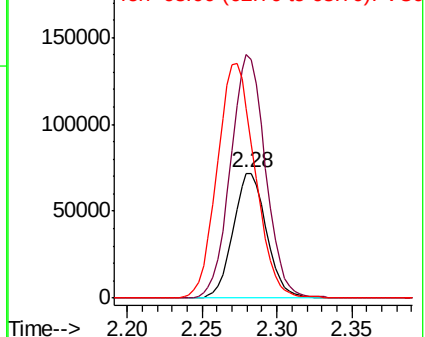
63 151.4 101.9 189.3

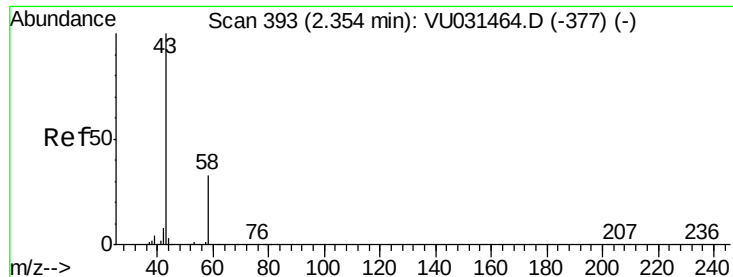


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 61.630 ug/L

RT: 2.35 min Scan# 392

Delta R.T. -0.00 min

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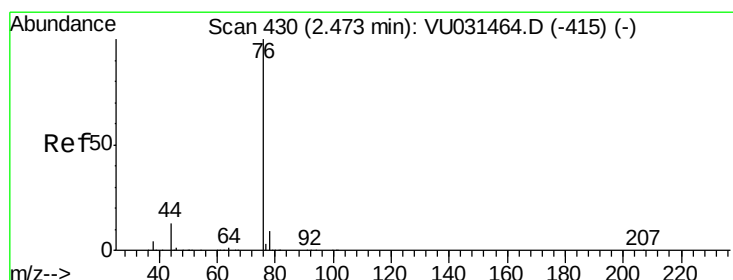
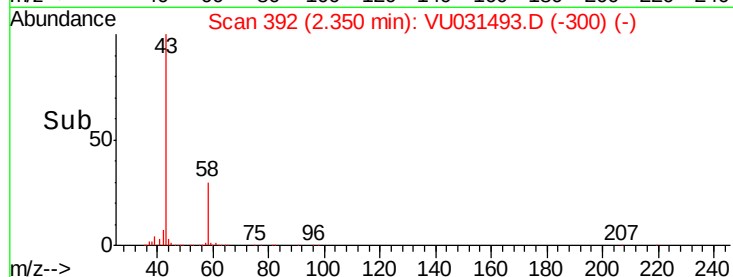
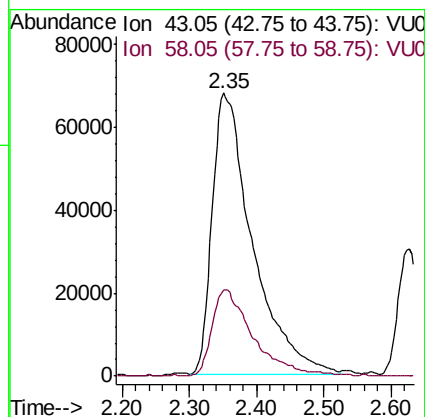
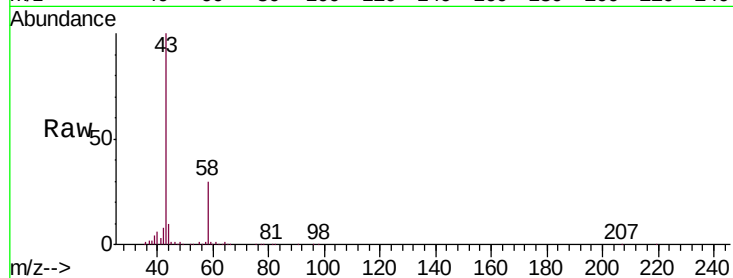
BFB04

Tgt Ion: 43 Resp: 282830

Ion Ratio Lower Upper

43 100

58 30.5 0.0 62.4



#14

Carbon disulfide

Concen: 5.489 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031493.D

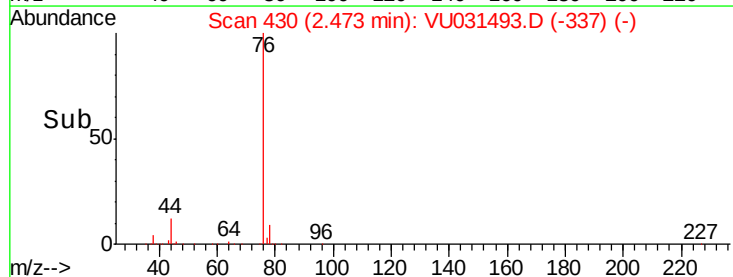
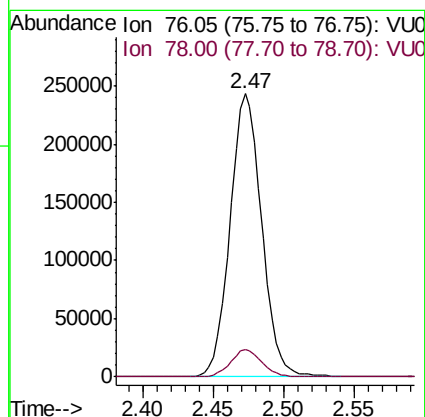
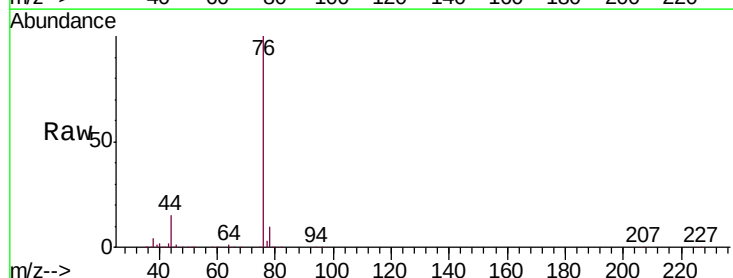
Acq: 25 Apr 2019 09:30

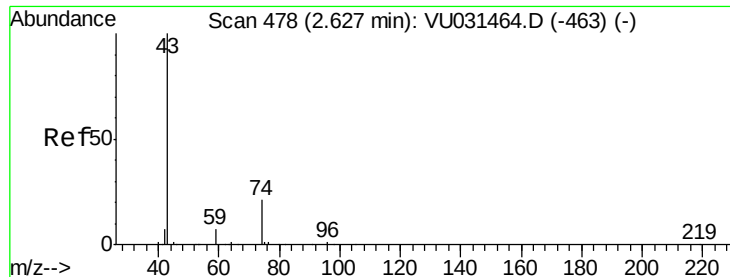
Tgt Ion: 76 Resp: 381568

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2





#15

Methyl Acetate

Concen: 5.676 ug/L

RT: 2.63 min Scan# 478

Delta R.T. -0.00 min

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ClientSampleId :

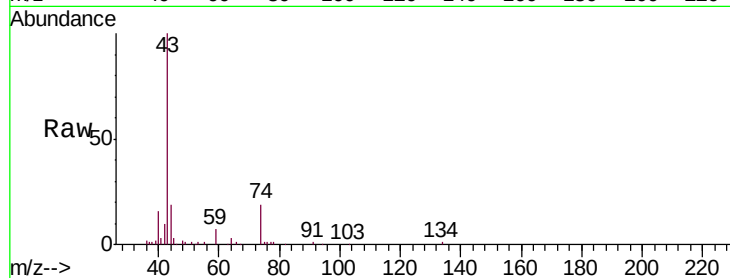
BFB04

Tgt Ion: 43 Resp: 71926

Ion Ratio Lower Upper

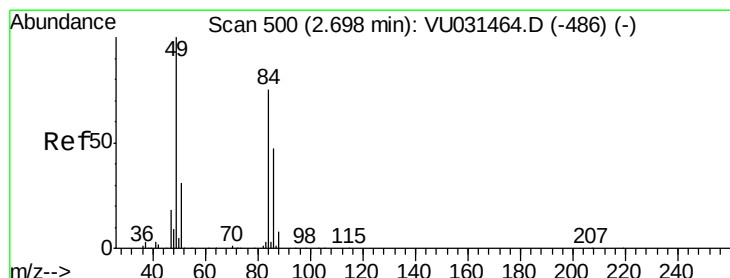
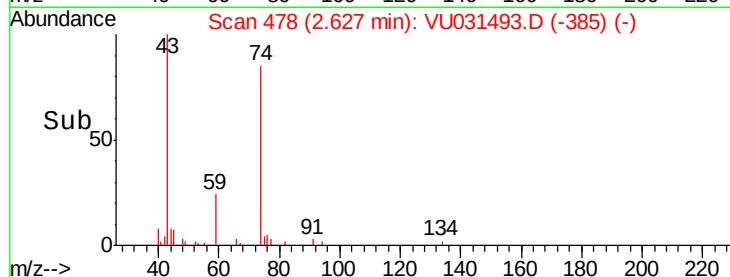
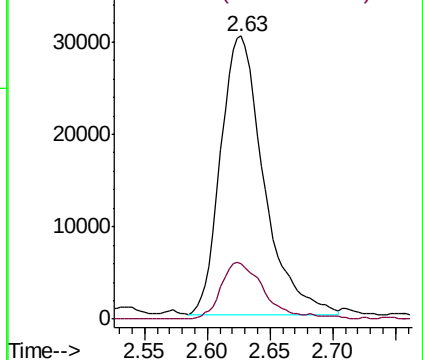
43 100

74 19.8 17.1 25.7



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 5.395 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

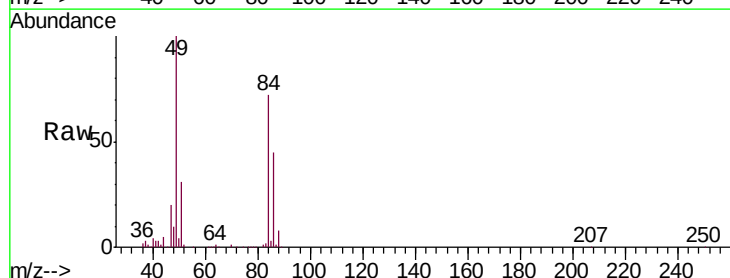
Tgt Ion: 84 Resp: 127568

Ion Ratio Lower Upper

84 100

86 63.3 44.9 83.5

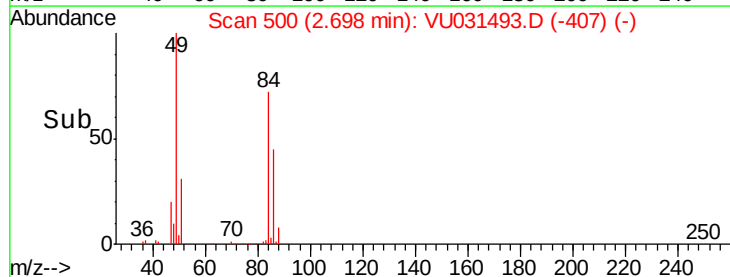
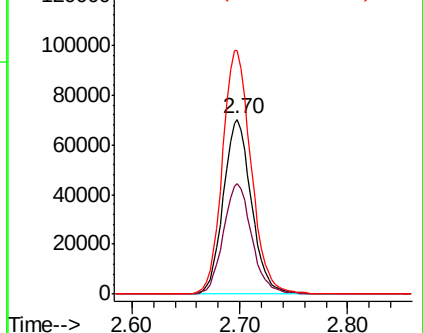
49 139.4 92.9 172.5

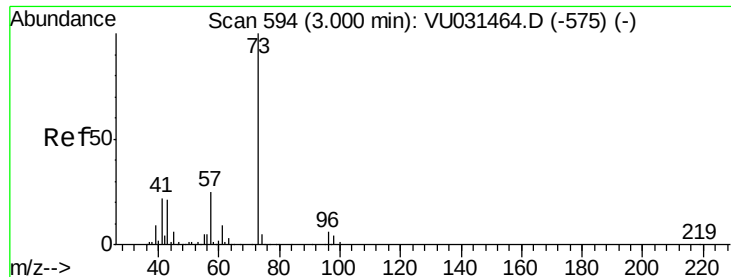


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#17

Methyl tert-butyl Ether

Concen: 5.454 ug/L

RT: 3.00 min Scan# 594

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

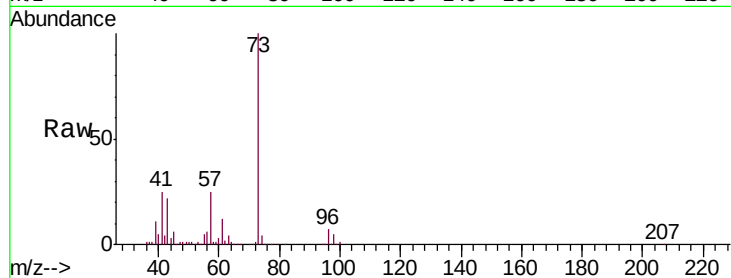
Tgt Ion: 73 Resp: 321915

Ion Ratio Lower Upper

73 100

43 20.8 15.4 23.0

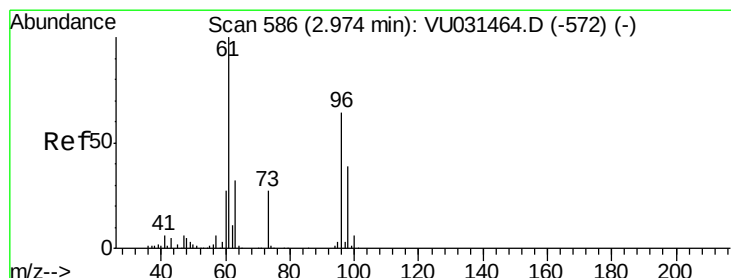
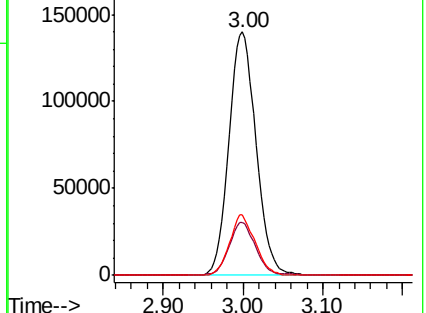
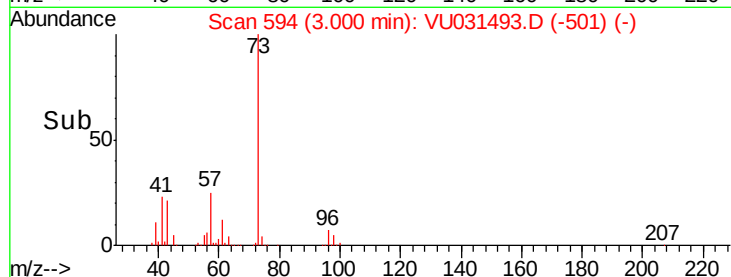
57 23.5 19.1 28.7



Abundance Ion 73.10 (72.80 to 73.80): VU031493.D (-501) (-)

Ion 43.05 (42.75 to 43.75): VU031493.D (-501) (-)

Ion 57.10 (56.80 to 57.80): VU031493.D (-501) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.346 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

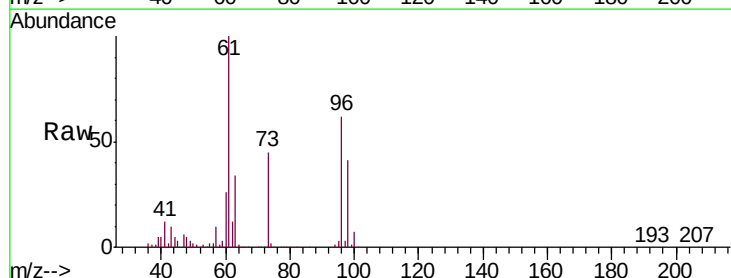
Tgt Ion: 96 Resp: 117691

Ion Ratio Lower Upper

96 100

61 160.8 108.4 201.2

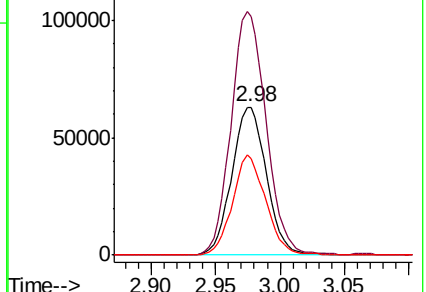
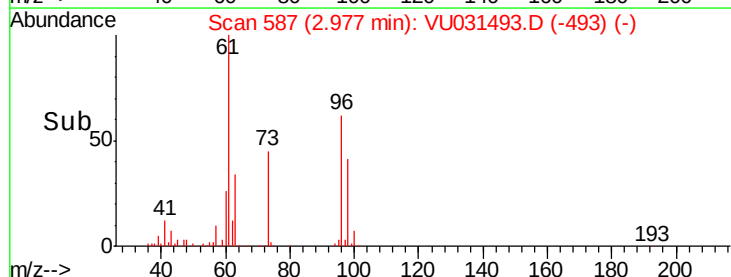
98 65.2 45.1 83.9

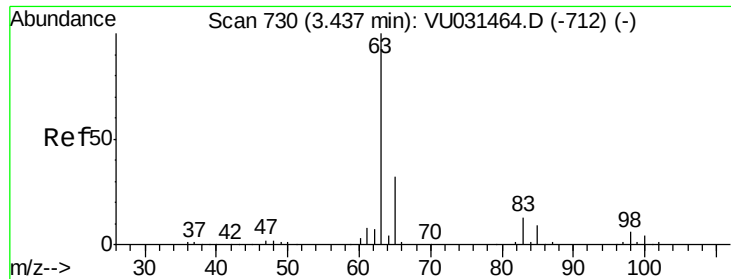


Abundance Ion 96.00 (95.70 to 96.70): VU031493.D (-493) (-)

Ion 61.05 (60.75 to 61.75): VU031493.D (-493) (-)

Ion 97.95 (97.65 to 98.65): VU031493.D (-493) (-)

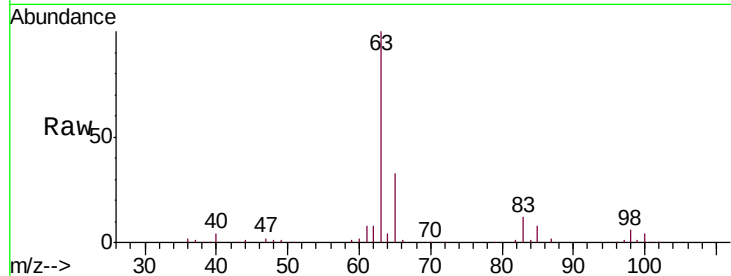




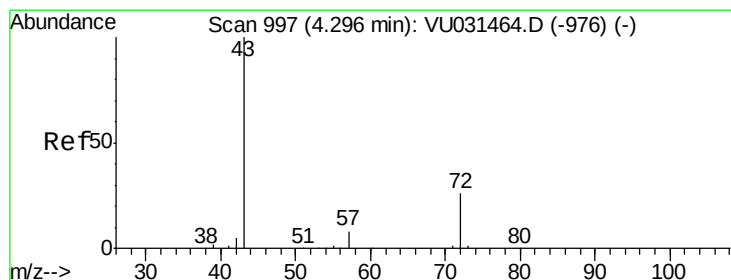
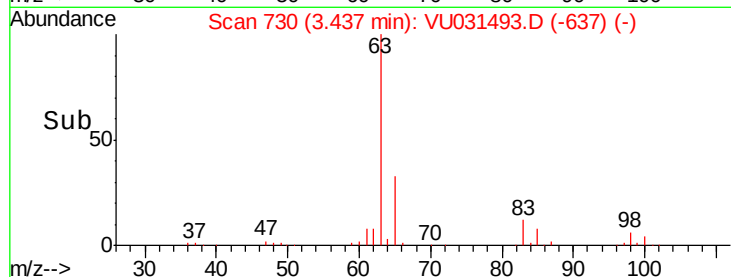
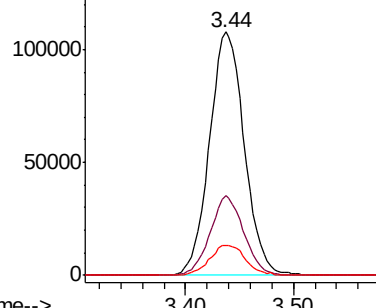
#19
 1,1-Dichloroethane
 Concen: 5.779 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Instrument :
 MSVOA_U
 ClientSampleId :
 BFB04

Tgt Ion: 63 Resp: 242034
 Ion Ratio Lower Upper
 63 100
 65 32.9 22.3 41.5
 83 12.4 8.5 15.9

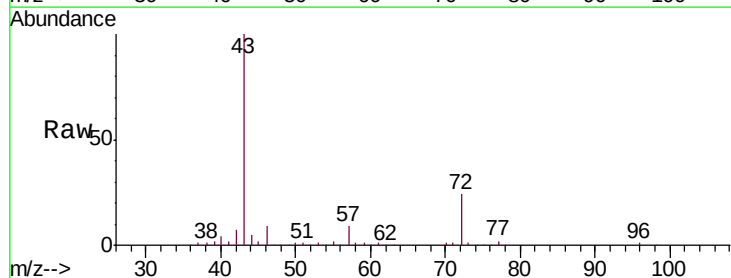


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

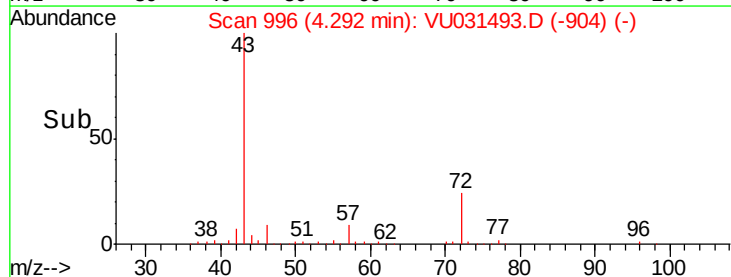
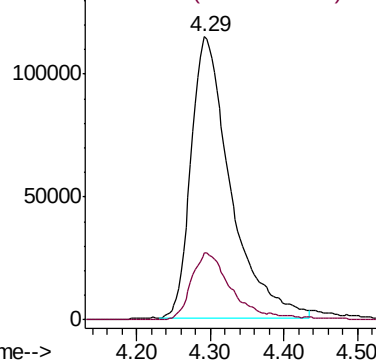


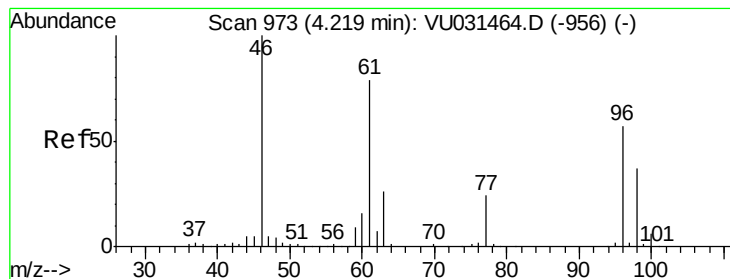
#21
 2-Butanone
 Concen: 61.455 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion: 43 Resp: 428810
 Ion Ratio Lower Upper
 43 100
 72 22.4 11.7 35.0



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0



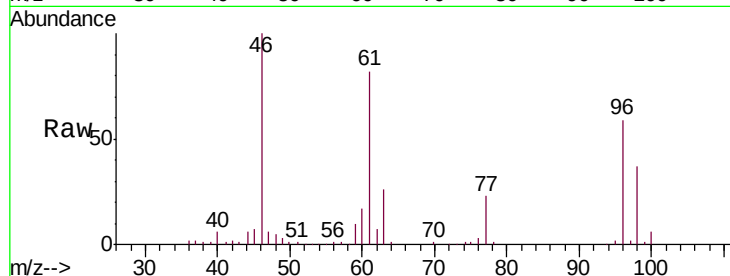


#22

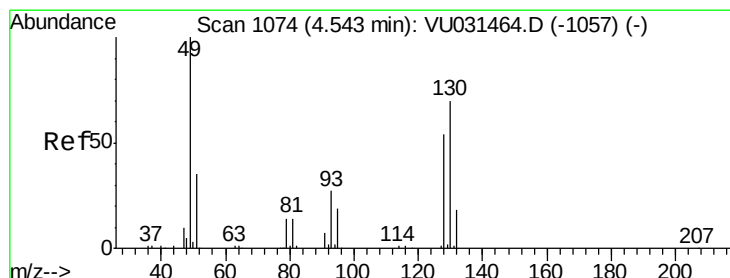
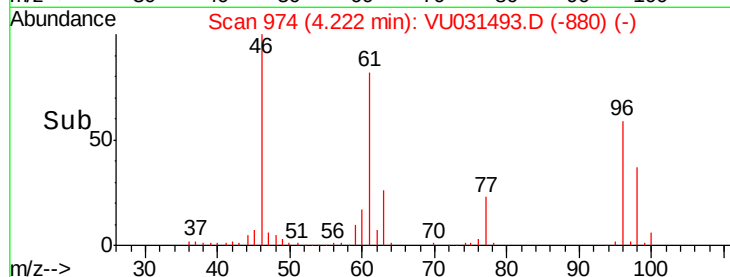
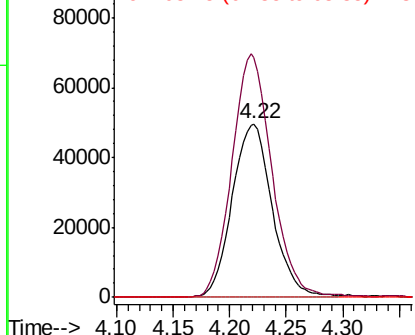
cis-1,2-Dichloroethene
Concen: 5.380 ug/L
RT: 4.22 min Scan# 974
Delta R.T. 0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Instrument :
MSVOA_U
ClientSampleId :
BFB04

Tgt Ion: 96 Resp: 122565
Ion Ratio Lower Upper
96 100
61 138.3 94.8 176.2
68 0.0 0.0 0.0



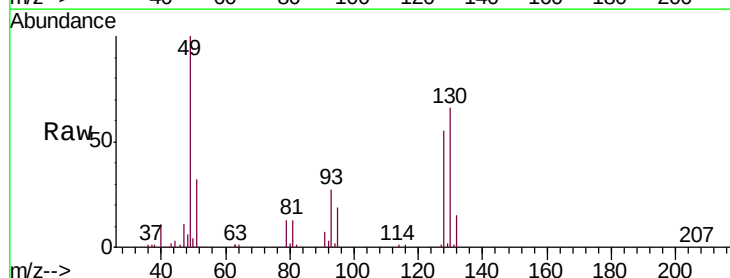
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



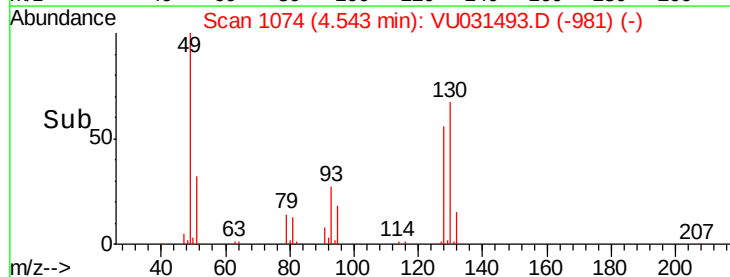
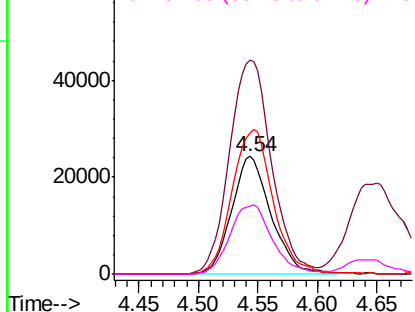
#23

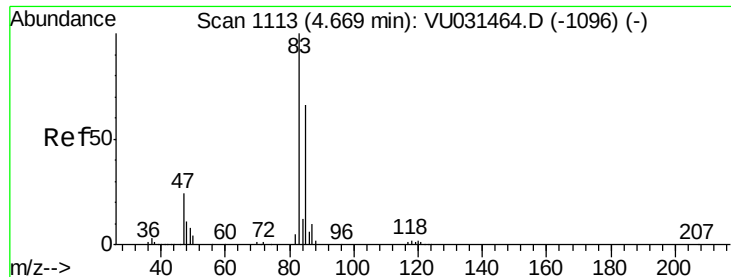
Bromochloromethane
Concen: 5.682 ug/L
RT: 4.54 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Tgt Ion: 128 Resp: 55679
Ion Ratio Lower Upper
128 100
49 181.4 128.9 239.3
130 119.1 91.2 169.4
51 57.8 47.4 71.0



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

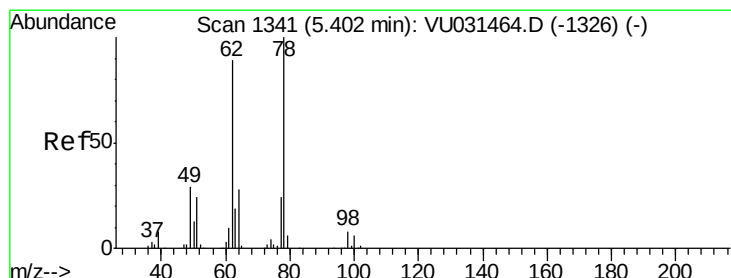
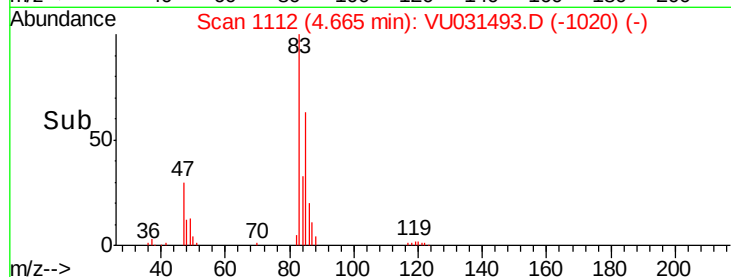
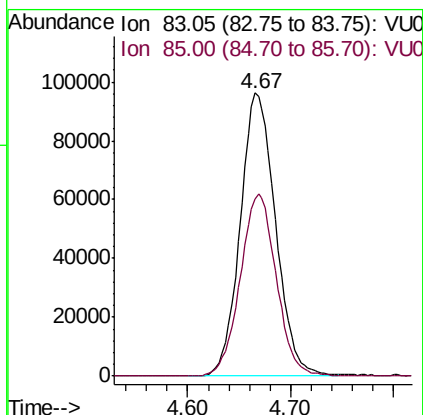
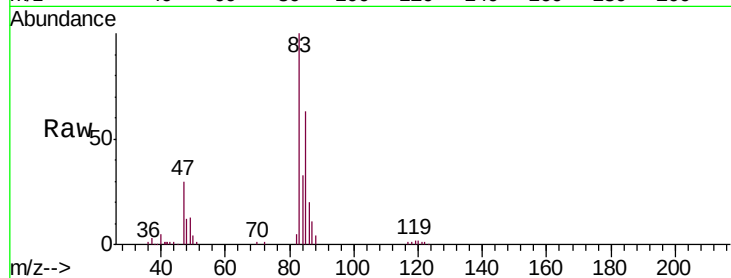




#25
Chloroform
Concen: 5.906 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

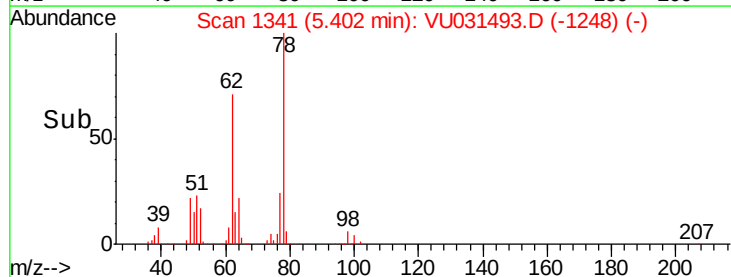
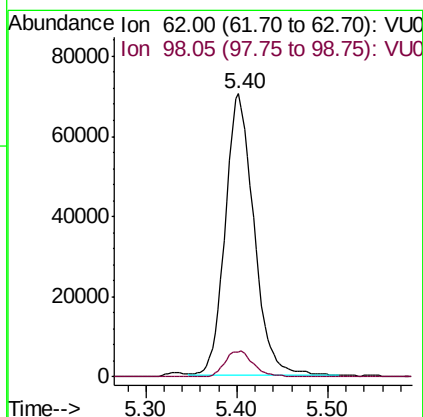
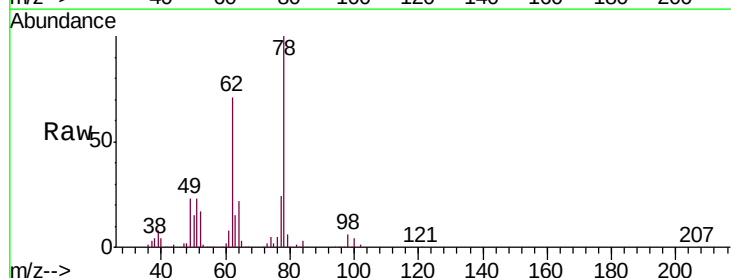
Instrument :
MSVOA_U
ClientSampleId :
BFB04

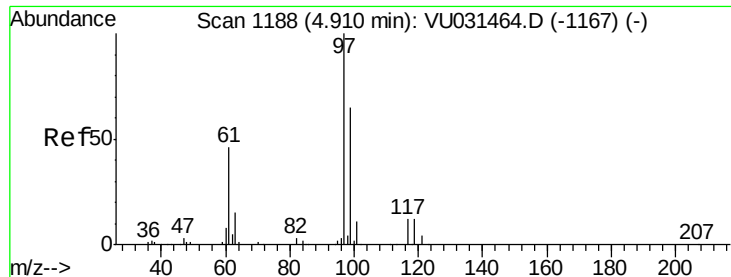
Tgt Ion: 83 Resp: 229464
Ion Ratio Lower Upper
83 100
85 62.7 46.0 85.4



#27
1,2-Dichloroethane
Concen: 6.035 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Tgt Ion: 62 Resp: 154085
Ion Ratio Lower Upper
62 100
98 8.9 6.5 9.7

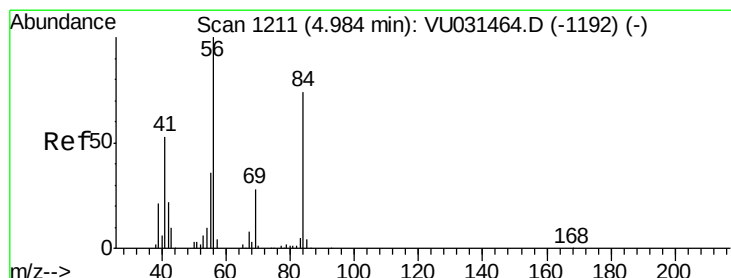
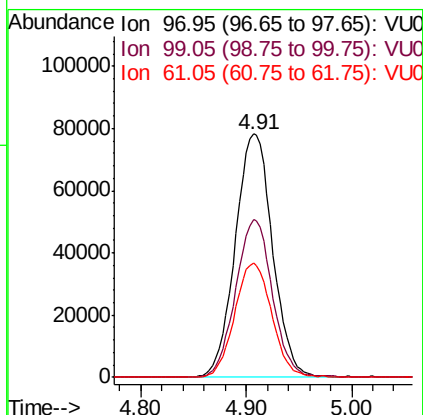
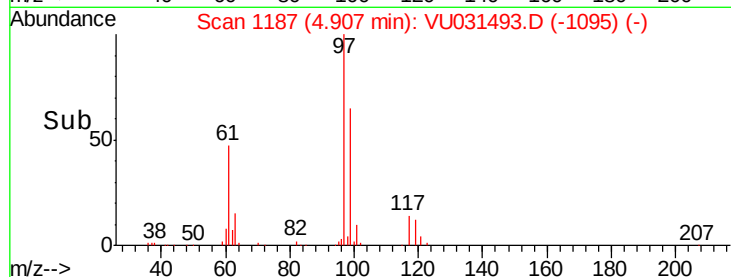
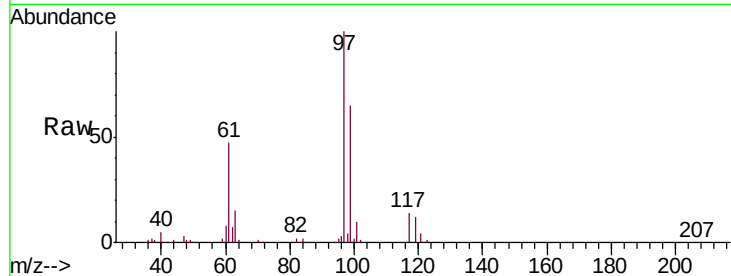




#29
 1,1,1-Trichloroethane
 Concen: 5.409 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

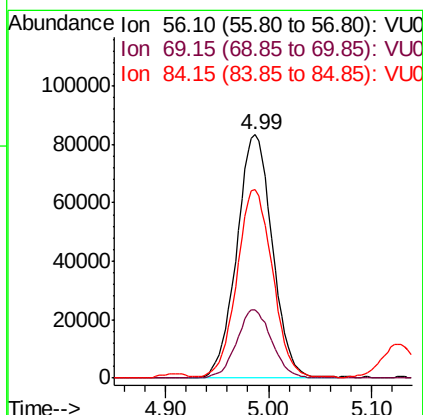
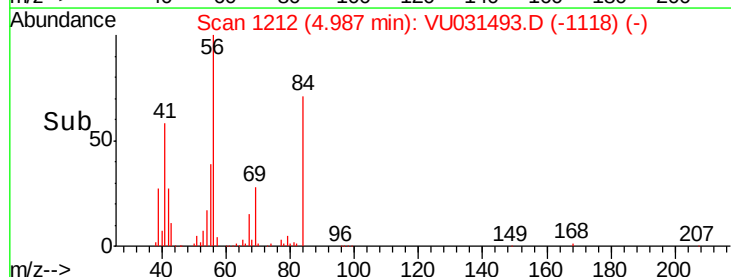
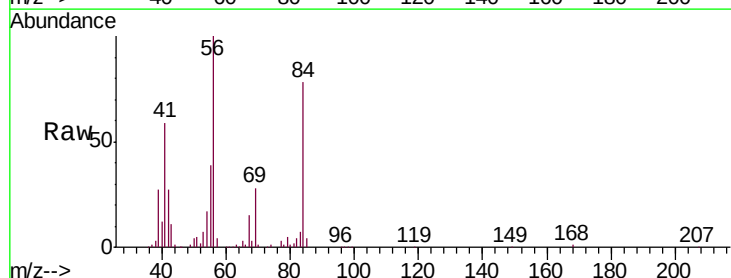
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB04

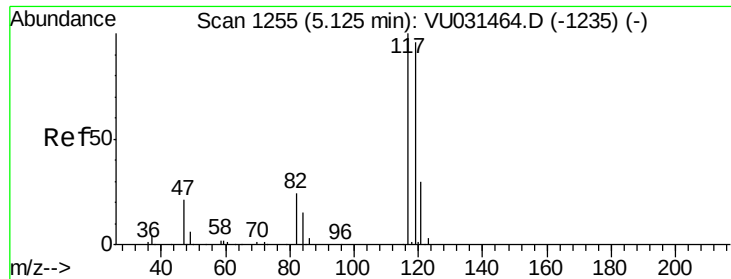
Tgt Ion: 97 Resp: 192154
 Ion Ratio Lower Upper
 97 100
 99 63.5 50.2 75.2
 61 46.7 37.0 55.4



#30
 Cyclohexane
 Concen: 4.688 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. 0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion: 56 Resp: 200503
 Ion Ratio Lower Upper
 56 100
 69 27.4 23.3 34.9
 84 76.7 61.0 91.6

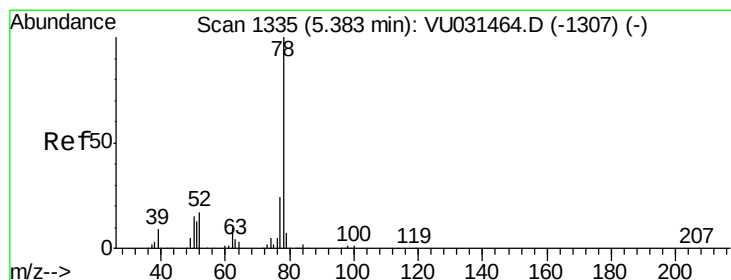
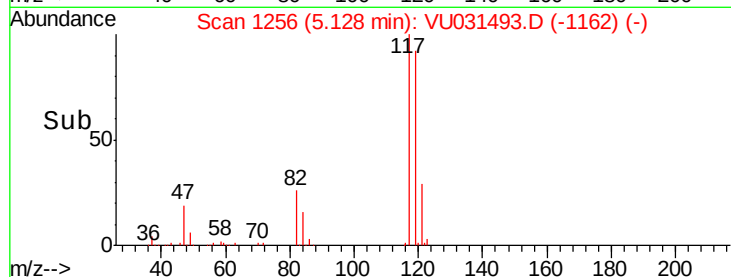
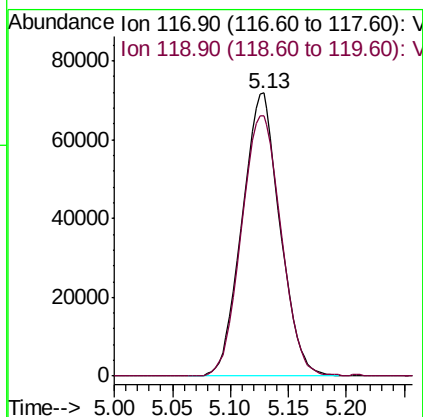
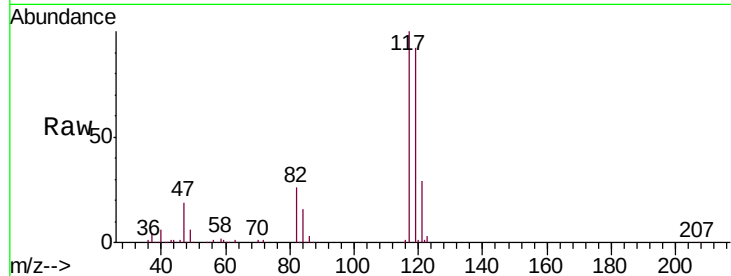




#31
Carbon tetrachloride
Concen: 5.364 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

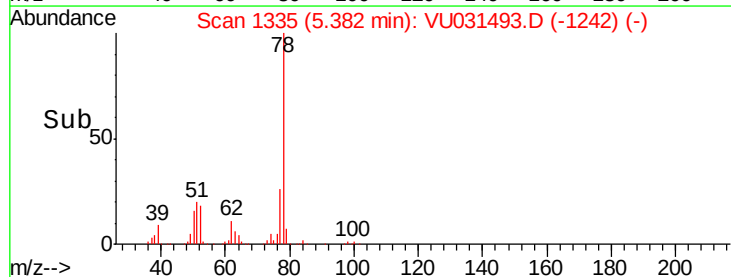
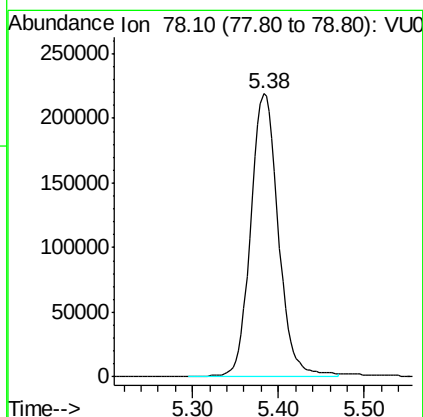
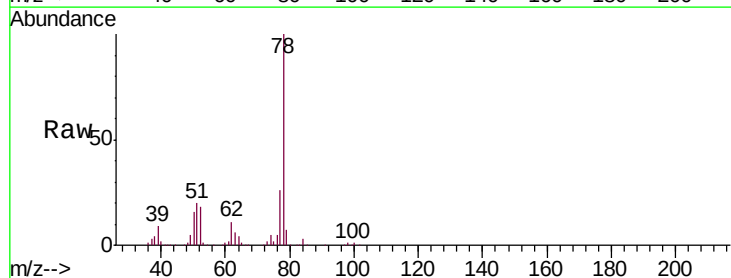
Instrument :
MSVOA_U
ClientSampleId :
BFB04

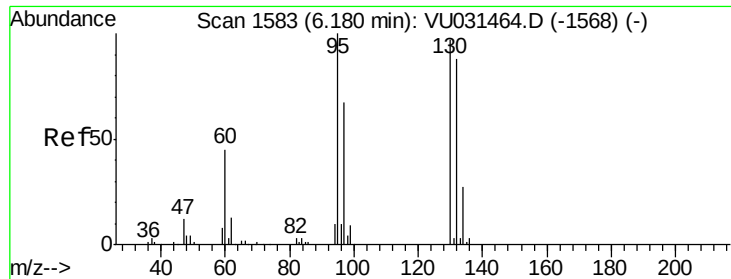
Tgt Ion:117 Resp: 163934
Ion Ratio Lower Upper
117 100
119 96.3 76.0 114.0



#33
Benzene
Concen: 5.140 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Tgt Ion: 78 Resp: 493277





#34

Trichloroethene

Concen: 4.887 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

Tgt Ion: 95 Resp: 123606

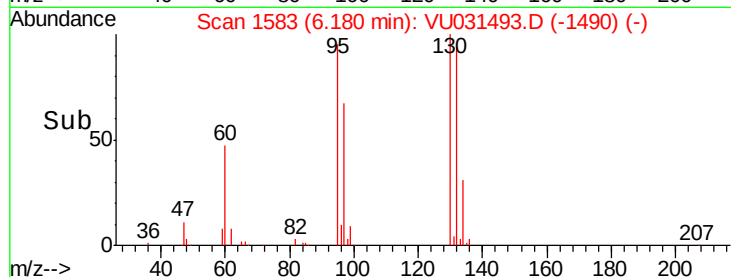
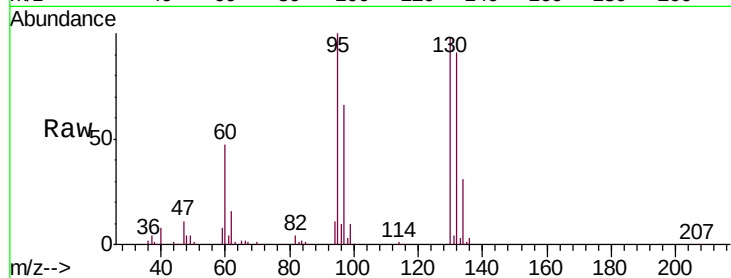
Ion Ratio Lower Upper

95 100

97 65.9 44.3 82.3

132 91.5 59.9 111.3

130 97.7 67.1 124.5

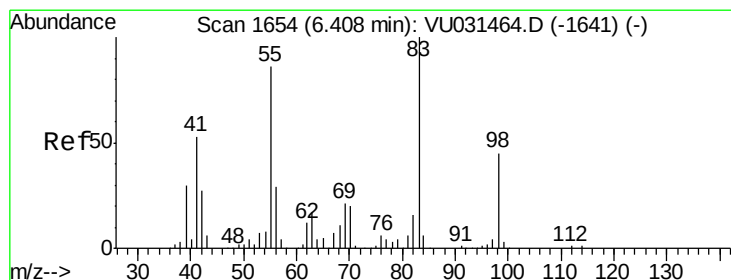
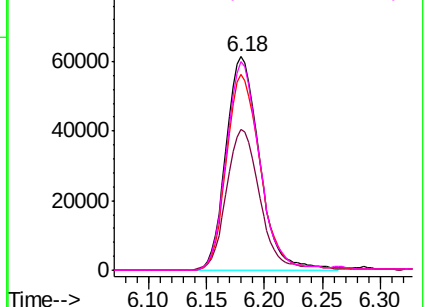


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.699 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

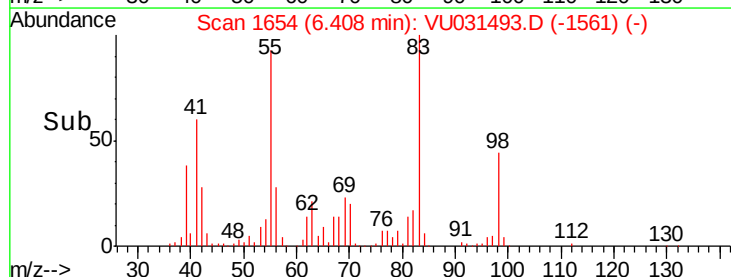
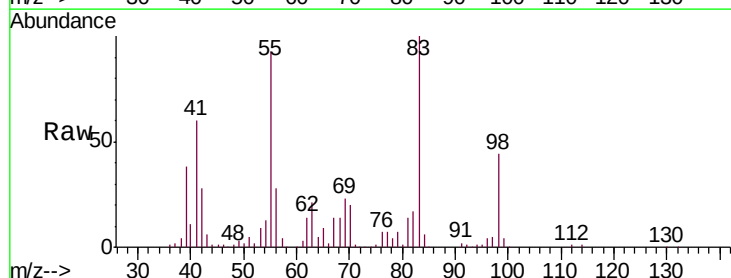
Tgt Ion: 83 Resp: 175843

Ion Ratio Lower Upper

83 100

55 94.0 71.1 106.7

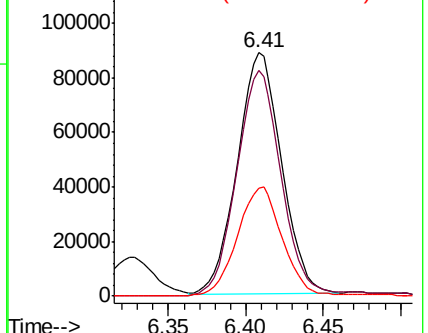
98 46.6 36.6 54.8

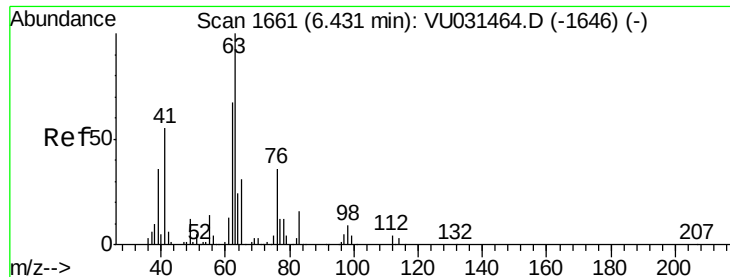


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

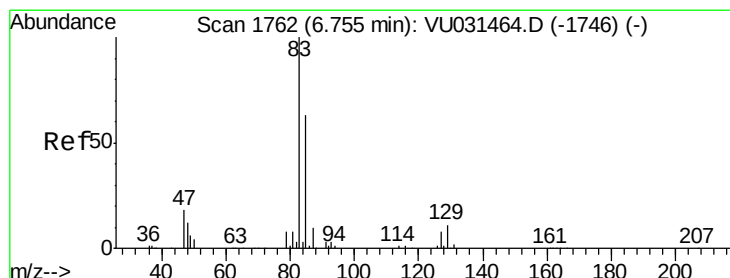
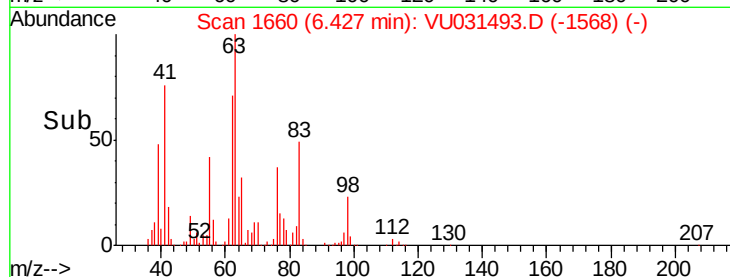
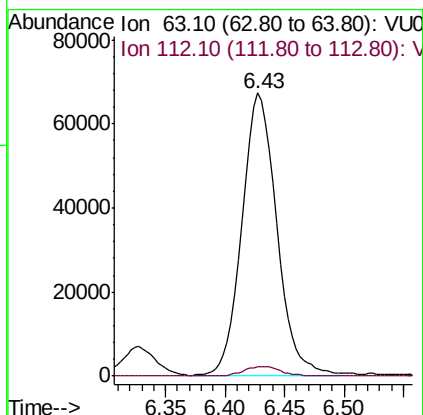
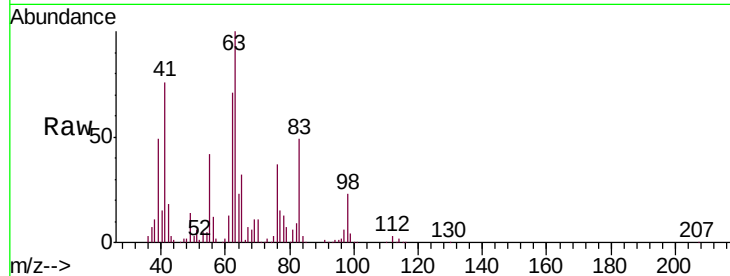




#37
 1,2-Dichloropropane
 Concen: 5.282 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

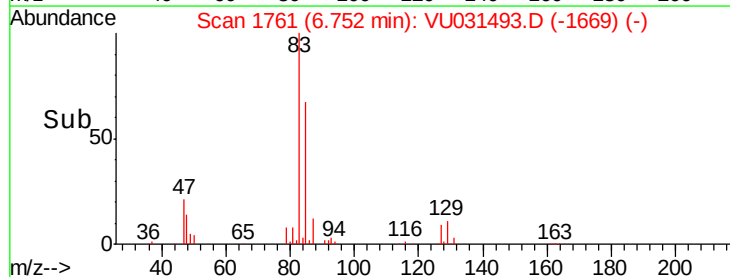
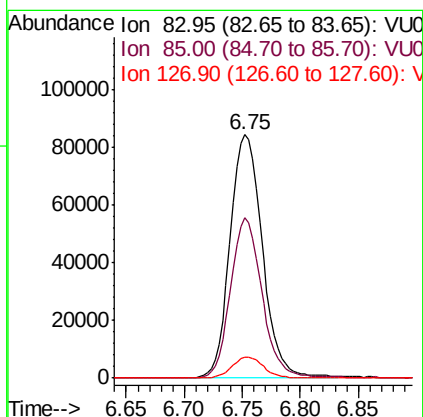
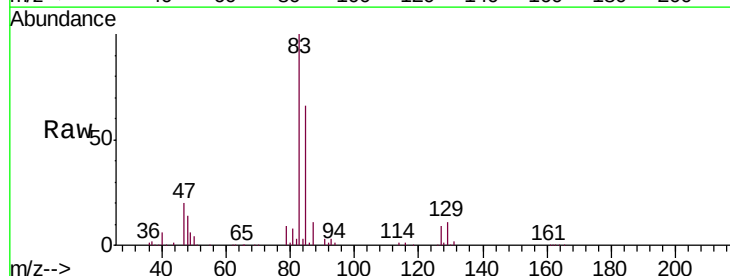
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB04

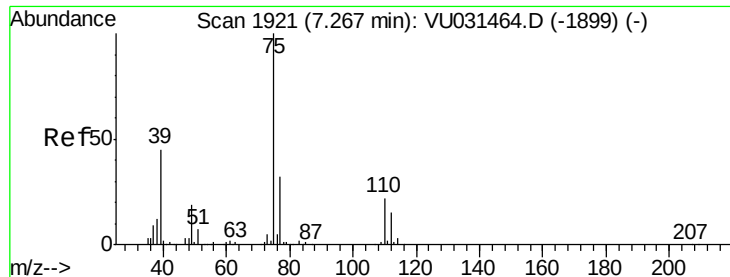
Tgt Ion: 63 Resp: 135859
 Ion Ratio Lower Upper
 63 100
 112 3.7 3.0 4.6



#38
 Bromodichloromethane
 Concen: 5.451 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion: 83 Resp: 164035
 Ion Ratio Lower Upper
 83 100
 85 65.7 44.8 83.2
 127 8.5 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 4.792 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

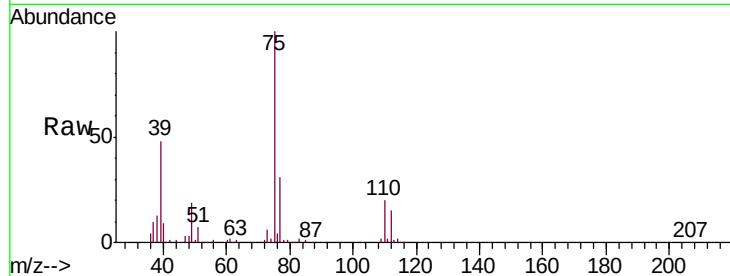
BFB04

Tgt Ion: 75 Resp: 171315

Ion Ratio Lower Upper

75 100

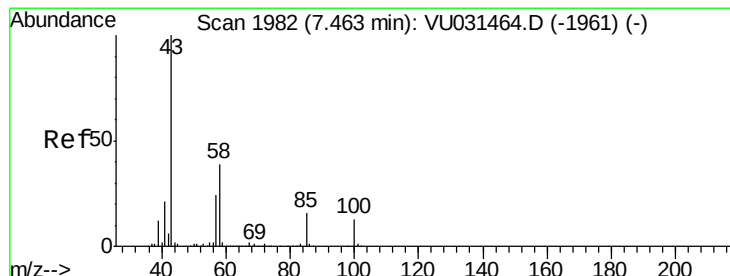
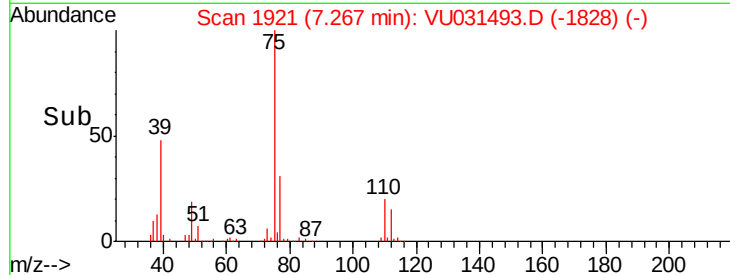
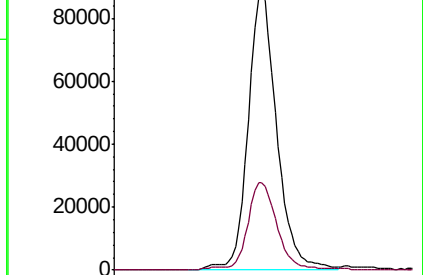
77 31.0 21.9 40.7



Abundance Ion 75.05 (74.75 to 75.75): VU031464.D (-1899) (-)

Ion 77.05 (76.75 to 77.75): VU031464.D (-1899) (-)

7.27



#40

4-Methyl-2-pentanone

Concen: 54.577 ug/L

RT: 7.46 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

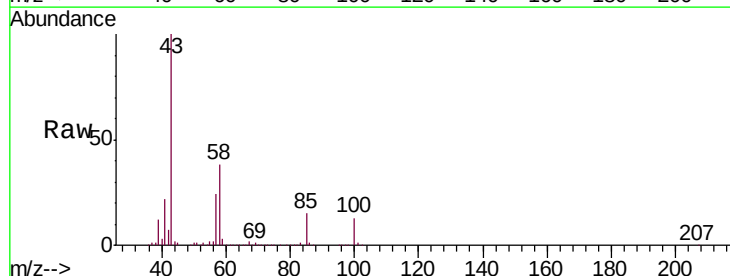
Tgt Ion: 43 Resp: 960470

Ion Ratio Lower Upper

43 100

58 37.4 31.6 47.4

100 12.2 10.6 15.8

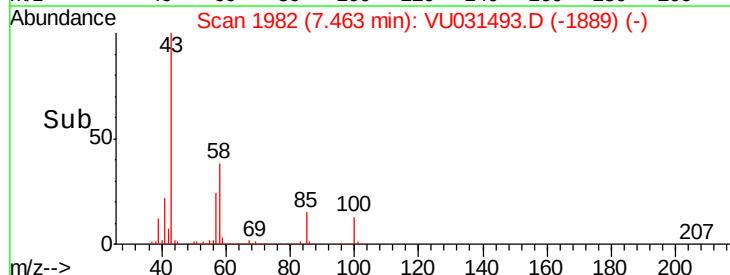
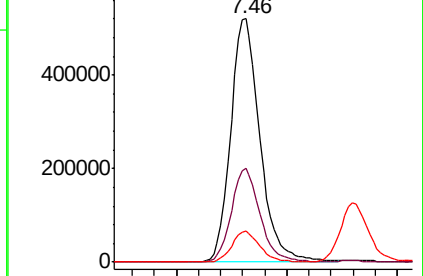


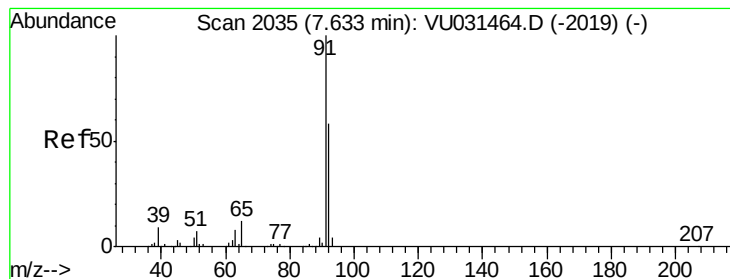
Abundance Ion 43.05 (42.75 to 43.75): VU031464.D (-1961) (-)

Ion 58.05 (57.75 to 58.75): VU031464.D (-1961) (-)

Ion 100.15 (99.85 to 100.85): VU031464.D (-1961) (-)

7.46





#42

Toluene

Concen: 5.245 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

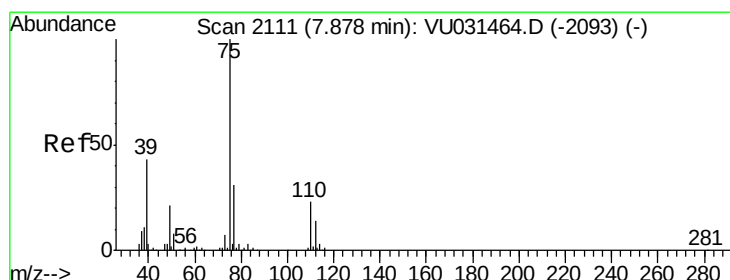
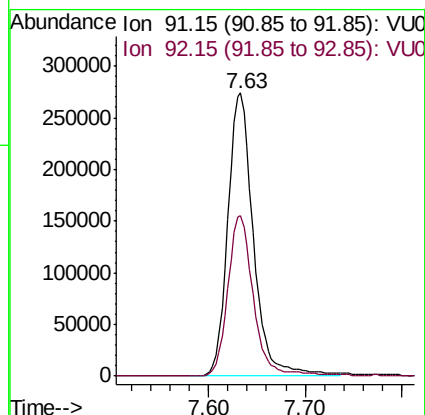
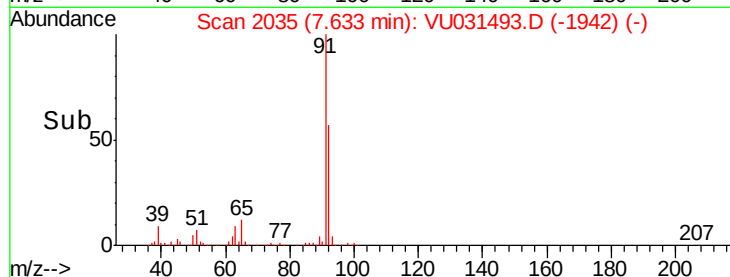
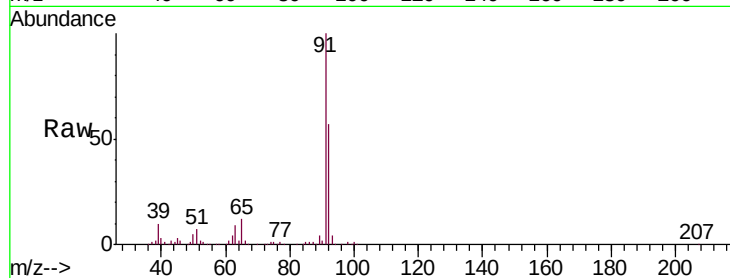
BFB04

Tgt Ion: 91 Resp: 505315

Ion Ratio Lower Upper

91 100

92 56.7 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 5.141 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU031493.D

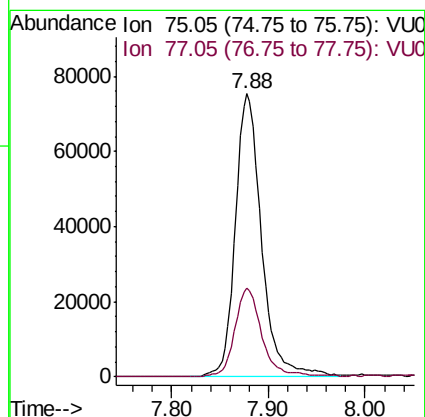
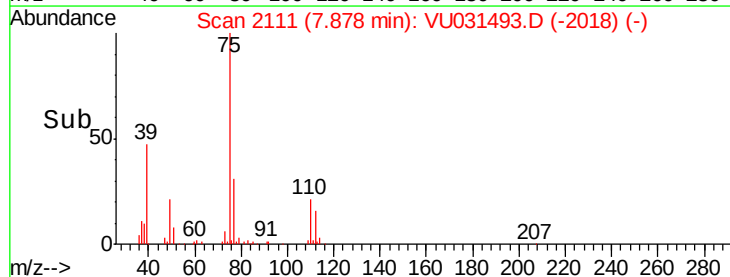
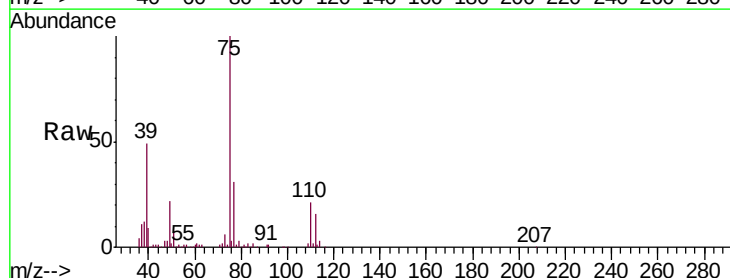
Acq: 25 Apr 2019 09:30

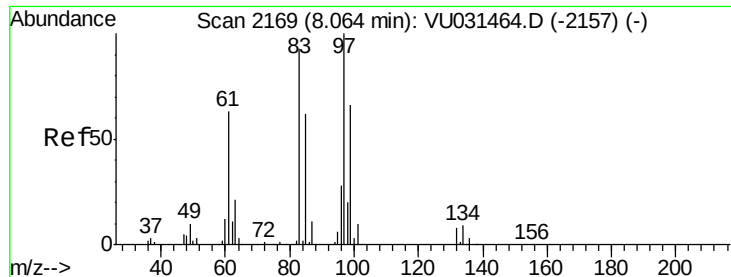
Tgt Ion: 75 Resp: 142191

Ion Ratio Lower Upper

75 100

77 31.5 22.5 41.7





#45

1,1,2-Trichloroethane

Concen: 5.236 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

Tgt Ion: 97 Resp: 91748

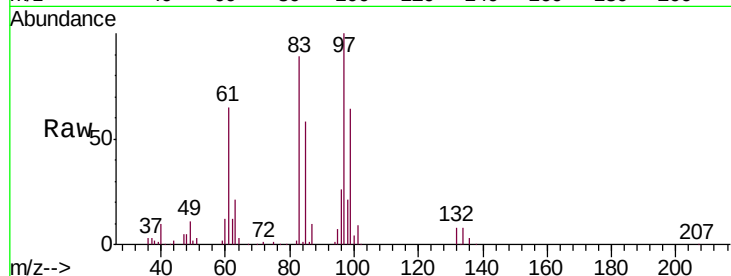
Ion Ratio Lower Upper

97 100

99 63.7 41.2 76.6

83 89.2 62.2 115.4

85 57.7 39.2 72.8



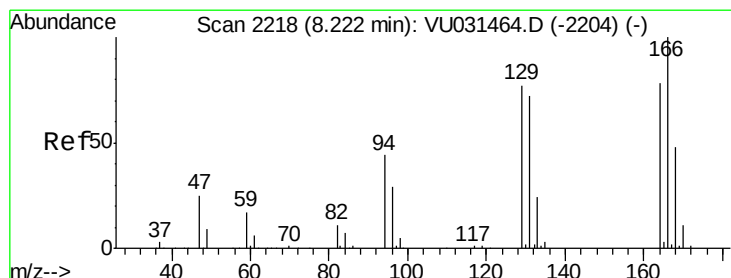
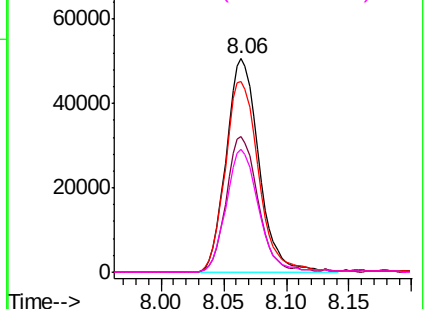
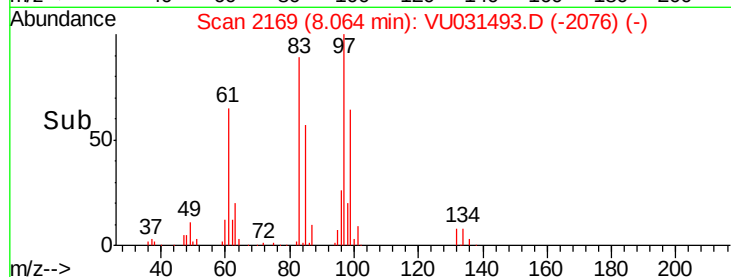
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.021 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Tgt Ion: 164 Resp: 88729

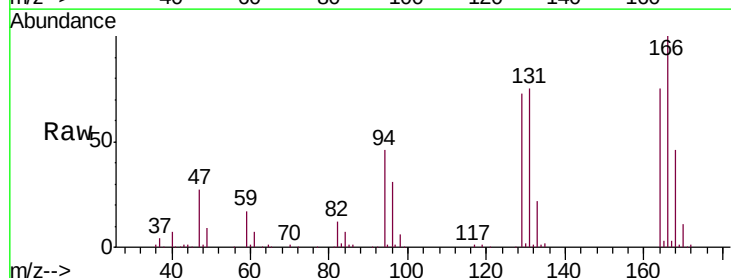
Ion Ratio Lower Upper

164 100

129 97.6 67.5 125.3

131 100.2 64.0 119.0

166 133.4 88.5 164.4



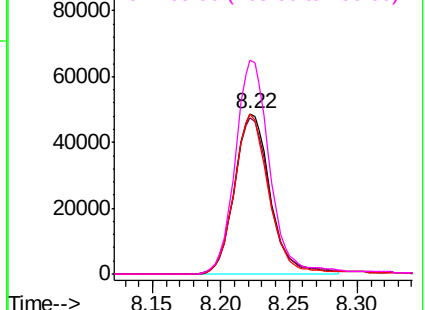
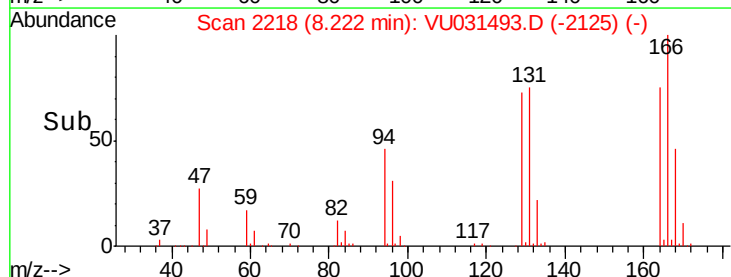
Abundance

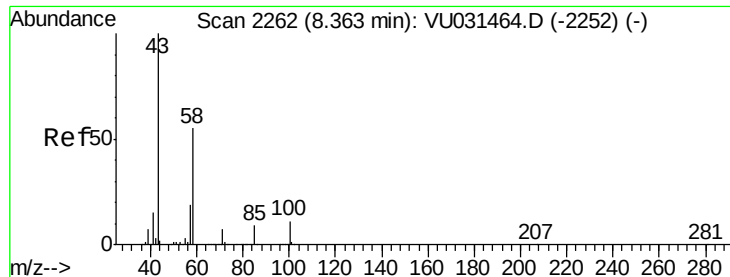
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

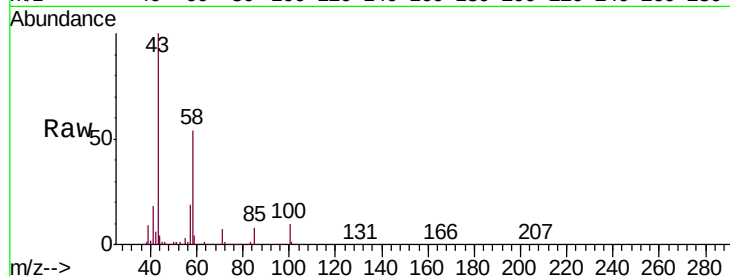




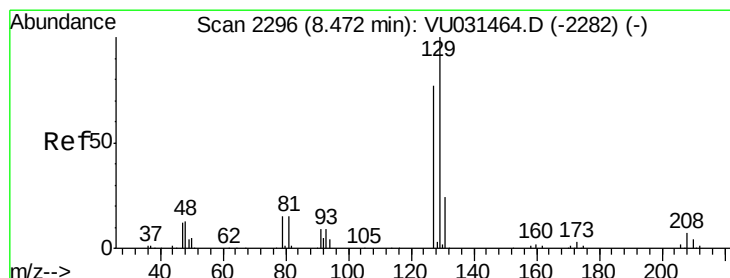
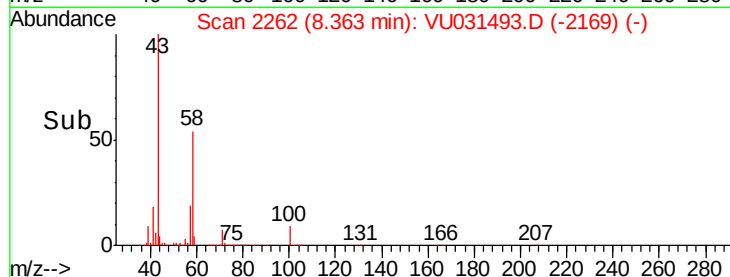
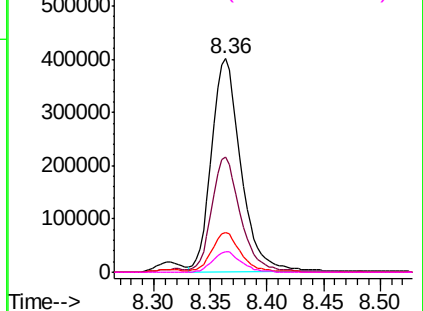
#48
2-Hexanone
Concen: 58.222 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Instrument :
MSVOA_U
ClientSampleId :
BFB04

Tgt Ion:	43	Resp:	718706
Ion	Ratio	Lower	Upper
43	100		
58	53.0	44.6	67.0
57	18.4	15.3	22.9
100	9.5	8.3	12.5

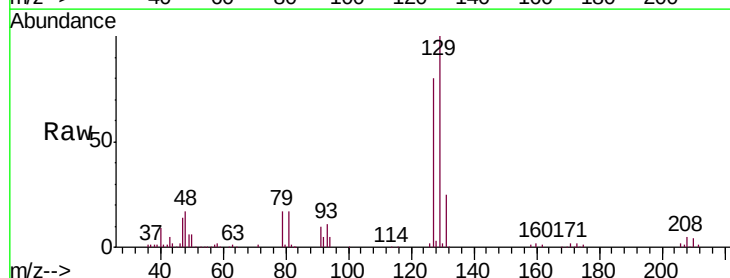


Abundance Ion 43.05 (42.75 to 43.75): VU031493.D (-2169) (-)
Ion 58.05 (57.75 to 58.75): VU031493.D (-2169) (-)
Ion 57.20 (56.90 to 57.90): VU031493.D (-2169) (-)
Ion 100.15 (99.85 to 100.85): VU031493.D (-2169) (-)

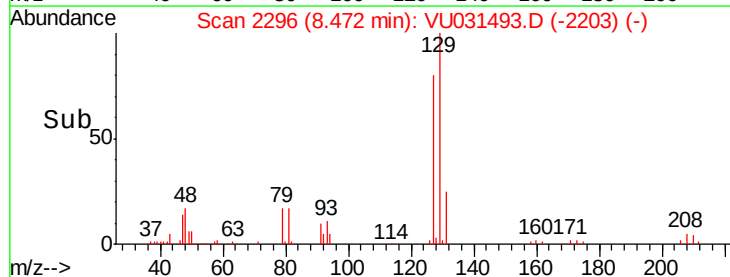
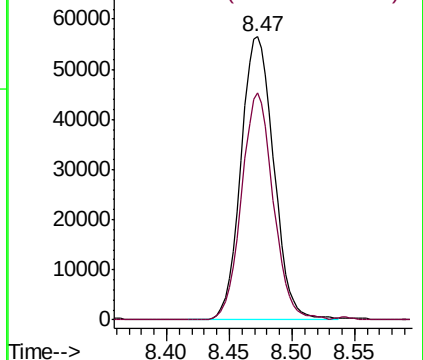


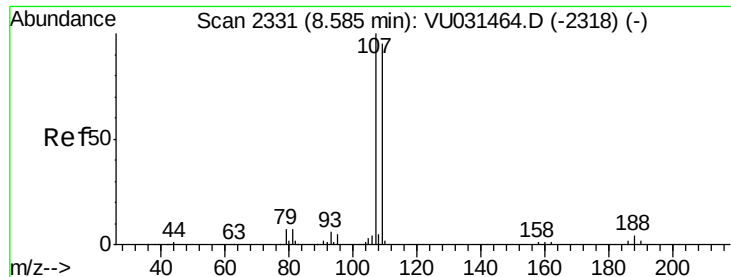
#49
Dibromochloromethane
Concen: 5.245 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU031493.D
Acq: 25 Apr 2019 09:30

Tgt Ion:	129	Resp:	103019
Ion	Ratio	Lower	Upper
129	100		
127	80.3	56.6	105.0



Abundance Ion 128.95 (128.65 to 129.65): VU031493.D (-2203) (-)
Ion 126.90 (126.60 to 127.60): VU031493.D (-2203) (-)





#50

1,2-Dibromoethane

Concen: 5.146 ug/L

RT: 8.58 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

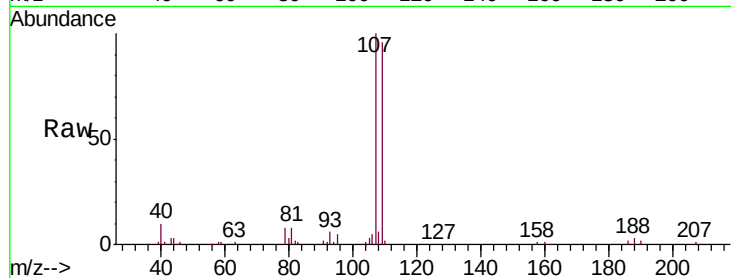
Tgt Ion:107 Resp: 86569

Ion Ratio Lower Upper

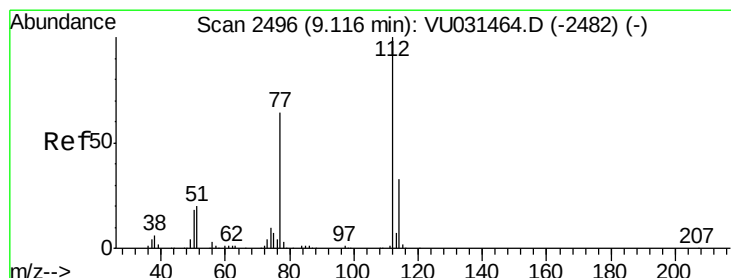
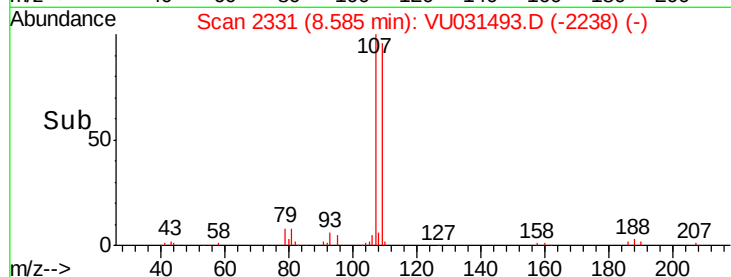
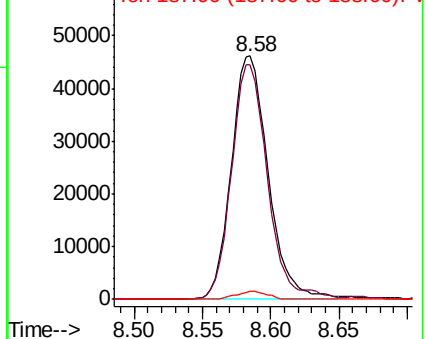
107 100

109 96.2 63.1 117.3

188 3.4 2.2 3.4#



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: 5.027 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

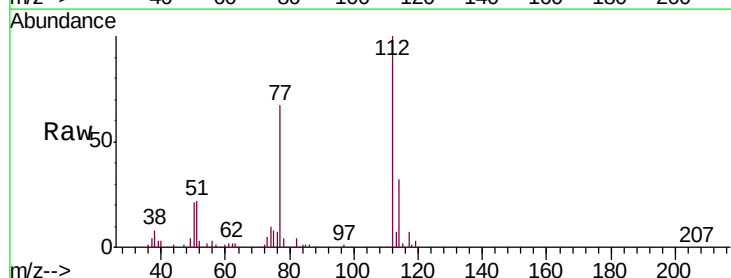
Tgt Ion:112 Resp: 293720

Ion Ratio Lower Upper

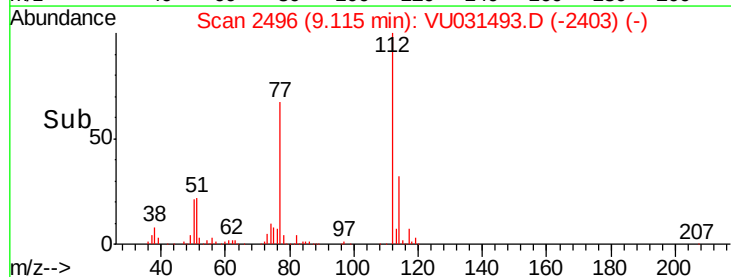
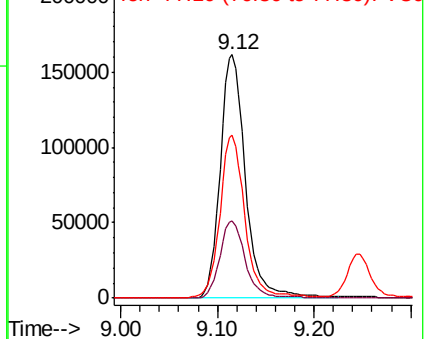
112 100

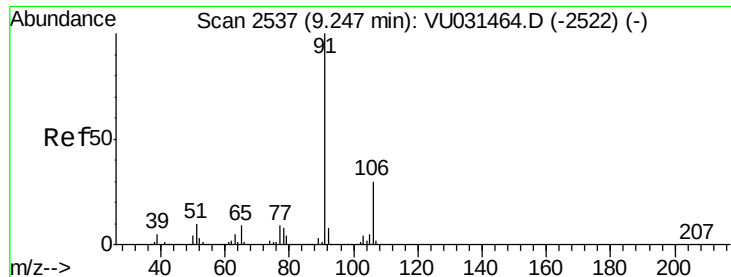
114 31.7 21.9 40.7

77 66.8 48.9 73.3



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: 4.945 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

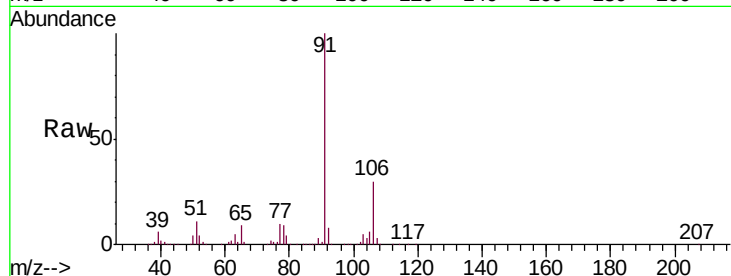
BFB04

Tgt Ion: 91 Resp: 507116

Ion Ratio Lower Upper

91 100

106 29.7 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU031493.D (-2444) (-)

Ion 106.15 (105.85 to 106.85): VU031493.D (-2444) (-)

9.25

300000

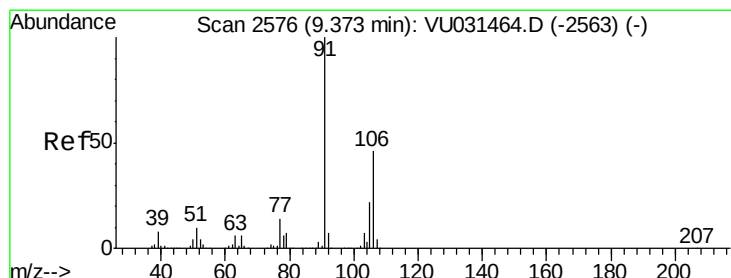
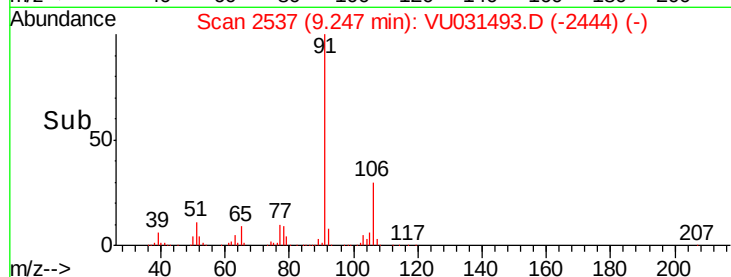
200000

100000

0

Time-->

9.15 9.20 9.25 9.30 9.35



#53

m,p-Xylene

Concen: 4.962 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. -0.00 min

Lab File: VU031493.D

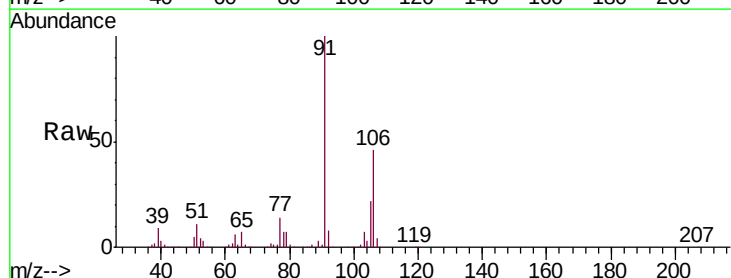
Acq: 25 Apr 2019 09:30

Tgt Ion: 106 Resp: 181191

Ion Ratio Lower Upper

106 100

91 215.8 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): VU031493.D (-2483) (-)

Ion 91.15 (90.85 to 91.85): VU031493.D (-2483) (-)

9.37

250000

200000

150000

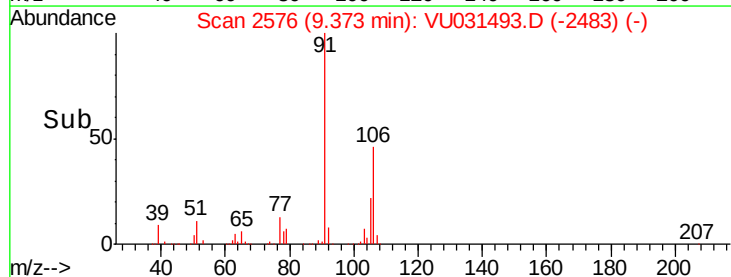
100000

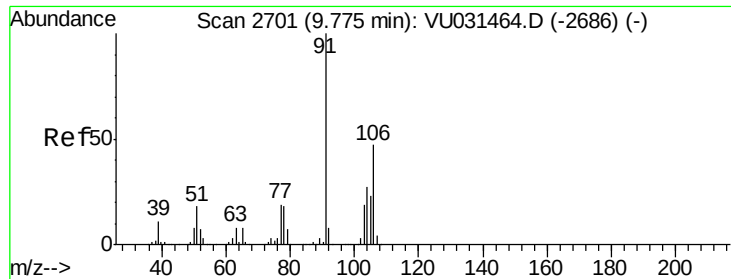
50000

0

Time-->

9.30 9.35 9.40 9.45





#54

o-Xylene

Concen: 4.871 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

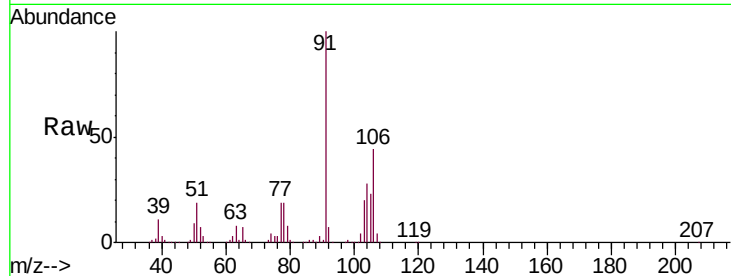
BFB04

Tgt Ion:106 Resp: 175626

Ion Ratio Lower Upper

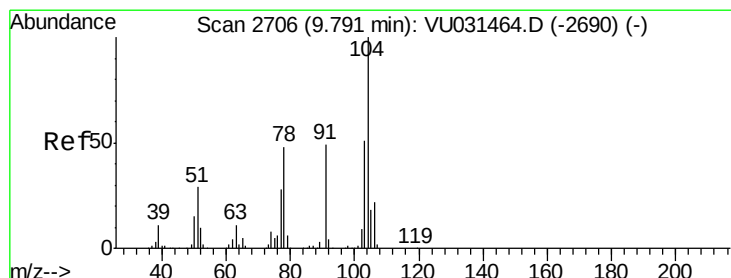
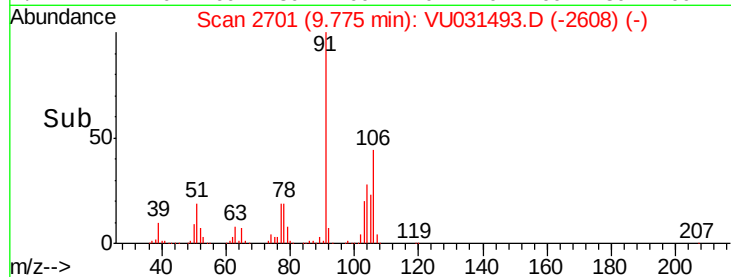
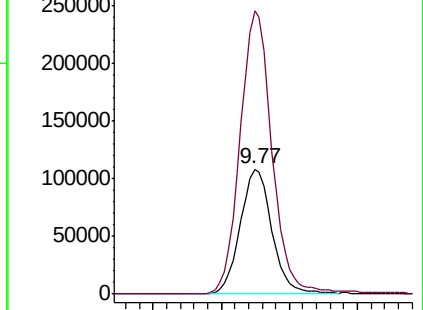
106 100

91 226.8 152.7 283.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.197 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU031493.D

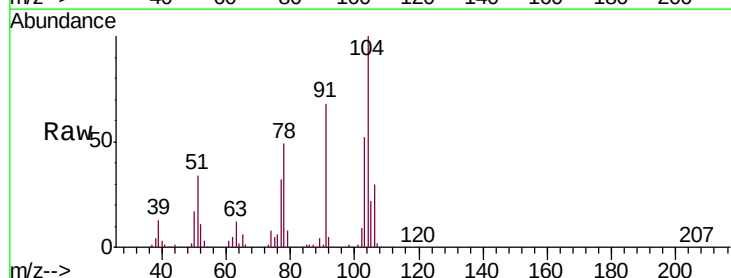
Acq: 25 Apr 2019 09:30

Tgt Ion:104 Resp: 309973

Ion Ratio Lower Upper

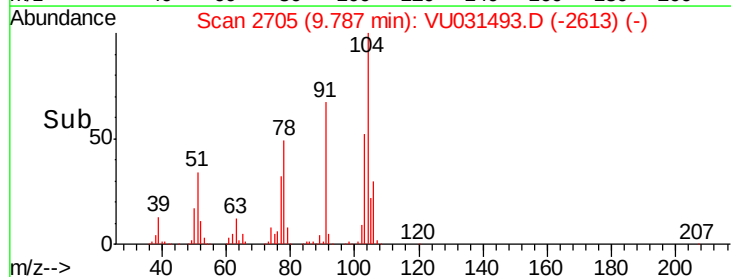
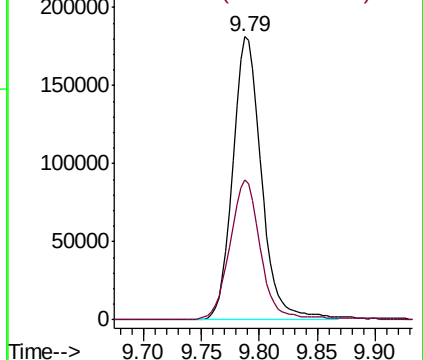
104 100

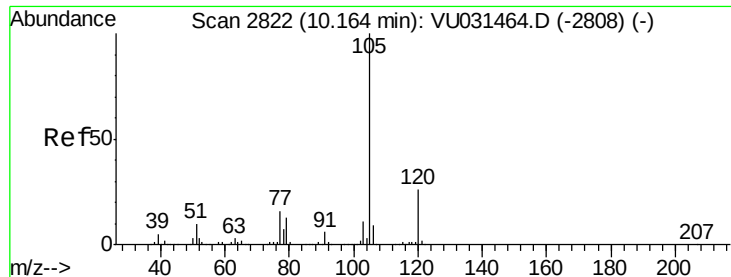
78 49.5 32.1 59.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.879 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

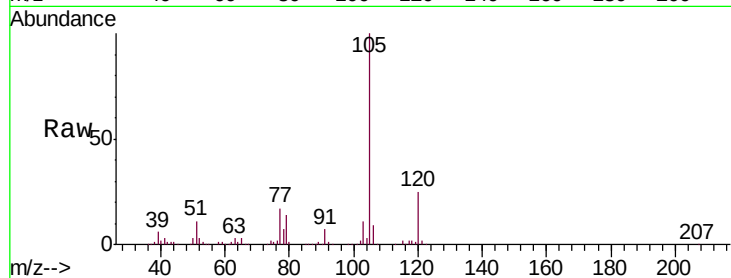
Tgt Ion: 105 Resp: 464801

Ion Ratio Lower Upper

105 100

120 25.7 20.8 31.2

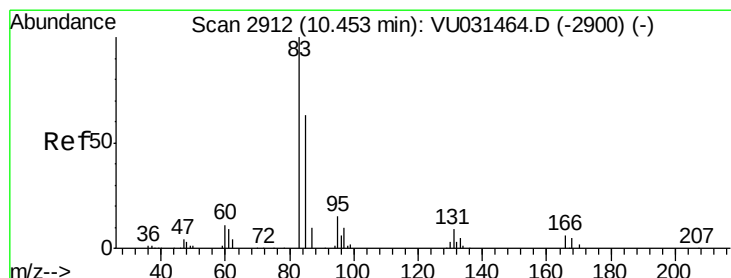
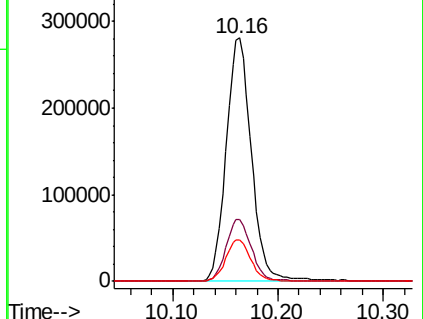
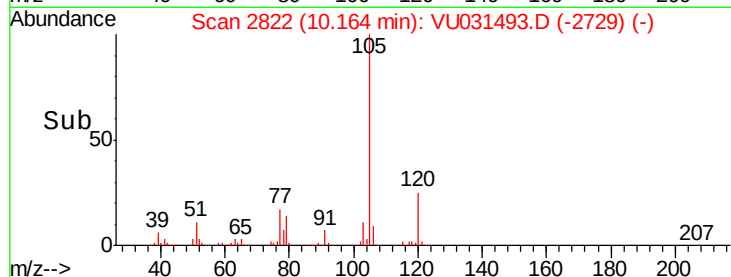
77 17.0 13.2 19.8



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: 5.466 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

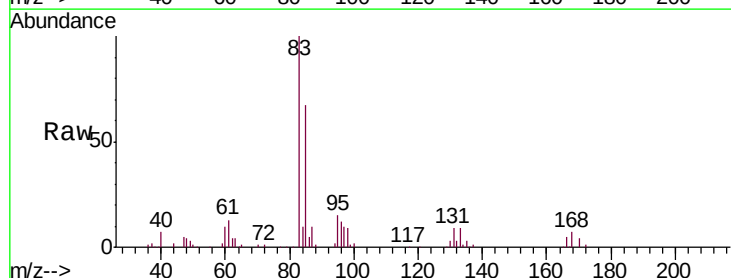
Tgt Ion: 83 Resp: 121896

Ion Ratio Lower Upper

83 100

85 66.8 42.8 79.4

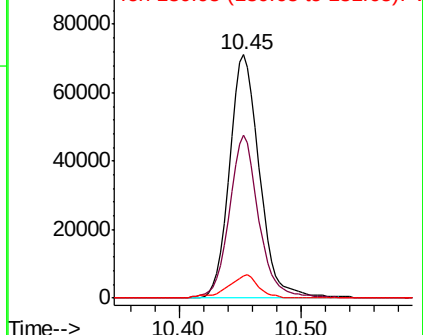
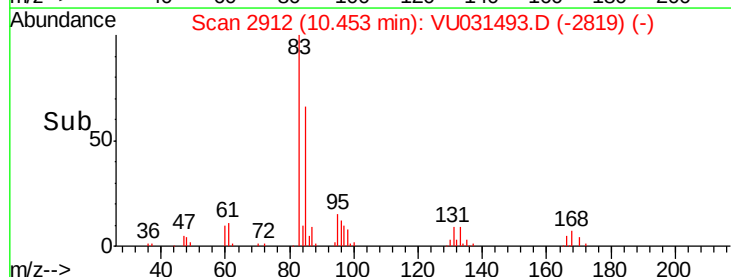
131 9.2 7.0 10.4

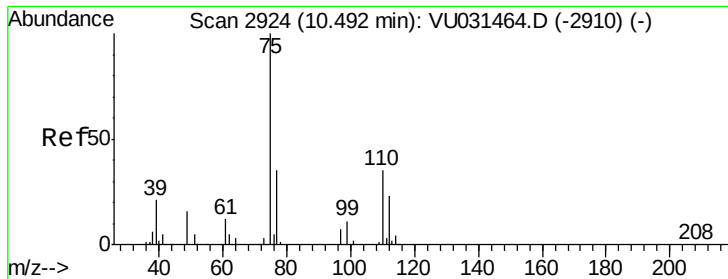


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

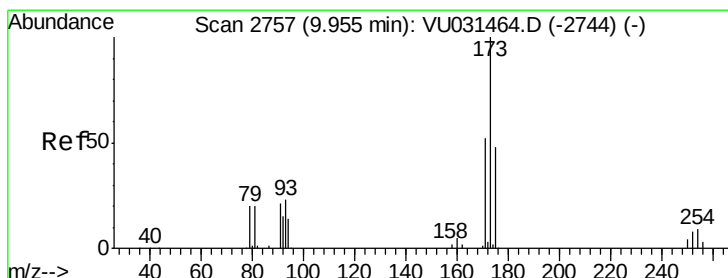
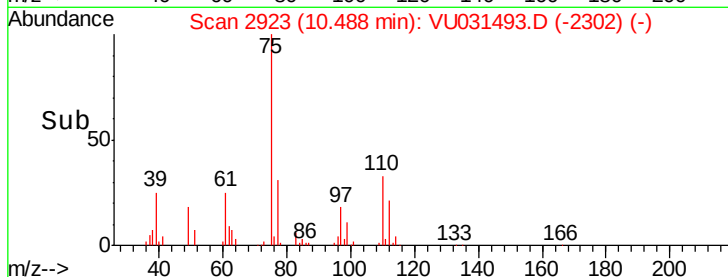
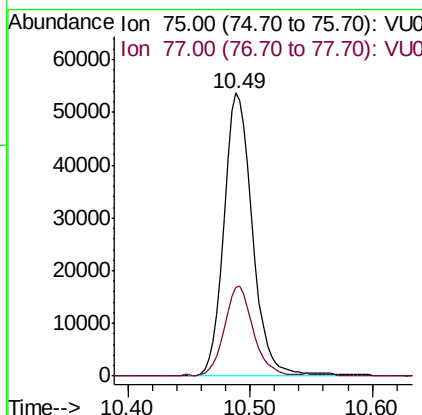
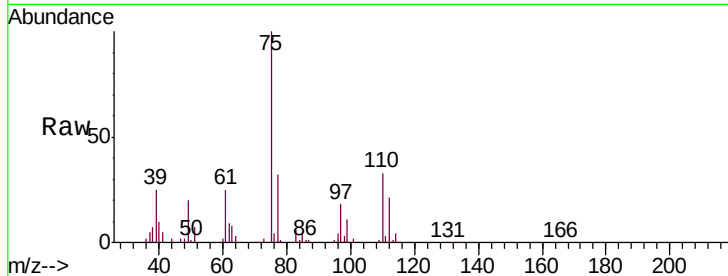




#59
 1,2,3-Trichloropropane
 Concen: 5.453 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

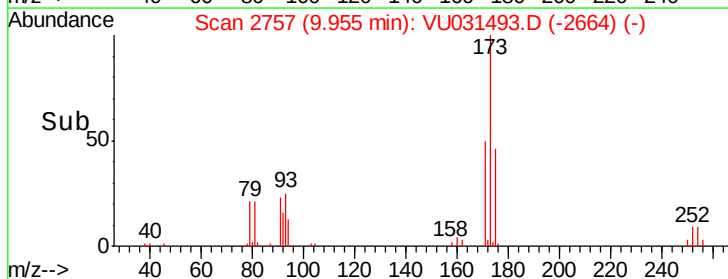
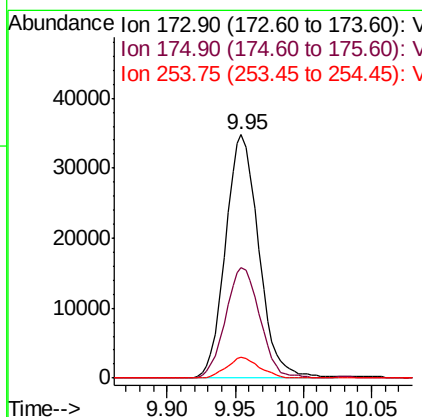
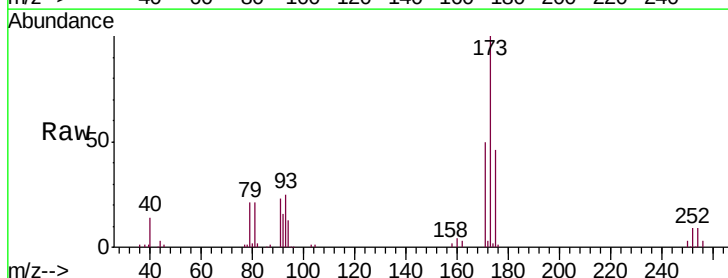
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB04

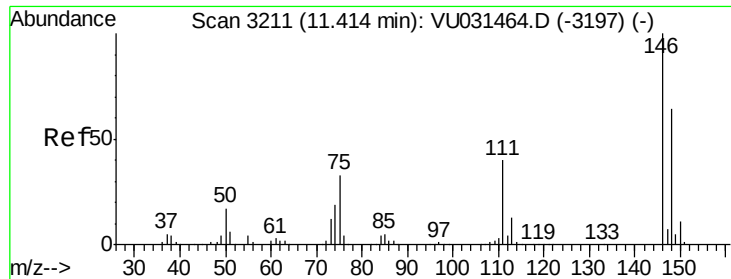
Tgt Ion: 75 Resp: 88347
 Ion Ratio Lower Upper
 75 100
 77 31.2 25.7 38.5



#61
 Bromoform
 Concen: 5.500 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion: 173 Resp: 59104
 Ion Ratio Lower Upper
 173 100
 175 46.8 39.9 59.9
 254 8.3 7.1 10.7





#62

1,3-Dichlorobenzene

Concen: 4.925 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

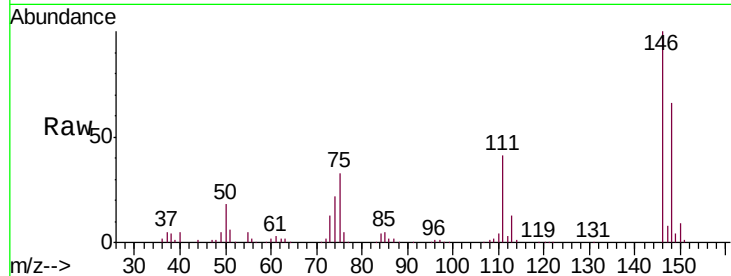
Tgt Ion:146 Resp: 199171

Ion Ratio Lower Upper

146 100

111 40.6 28.5 52.9

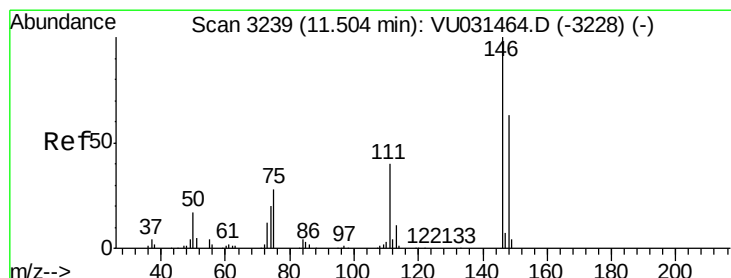
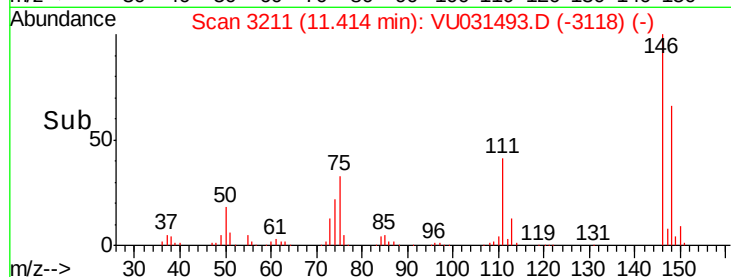
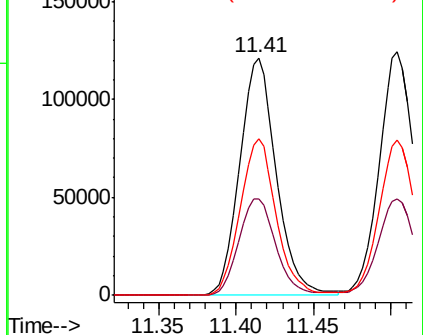
148 66.2 43.8 81.4



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: 4.881 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

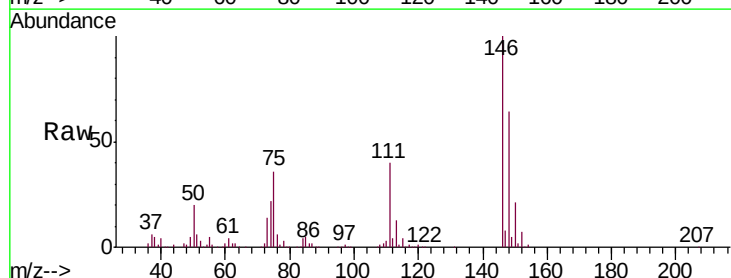
Tgt Ion:146 Resp: 205572

Ion Ratio Lower Upper

146 100

111 39.7 26.7 49.5

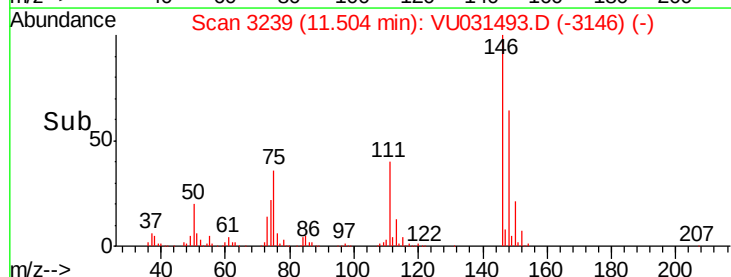
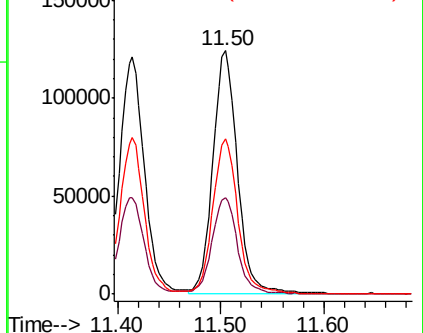
148 63.7 43.3 80.3

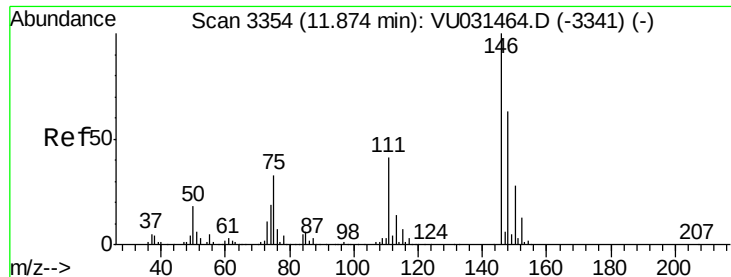


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

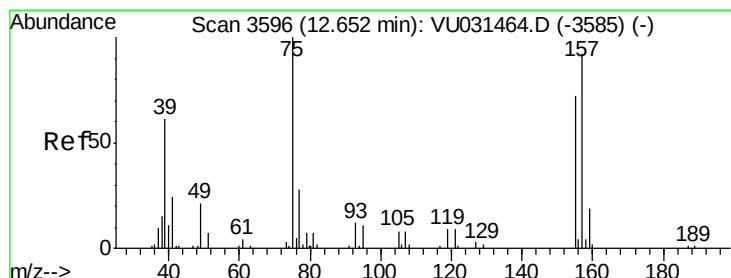
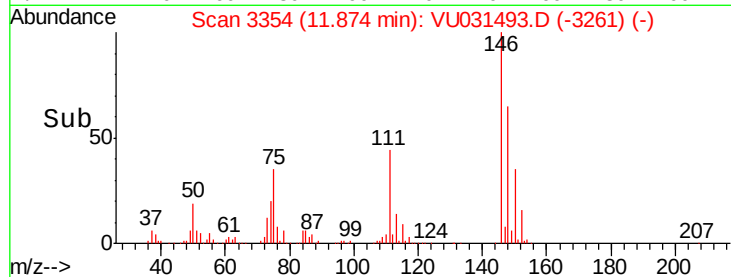
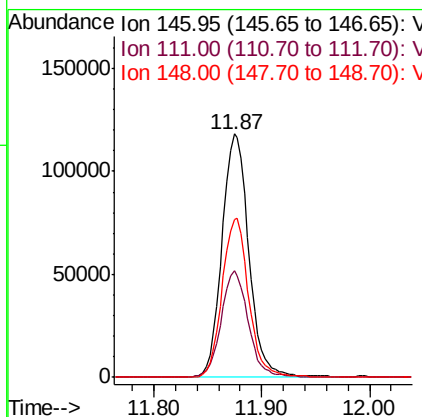
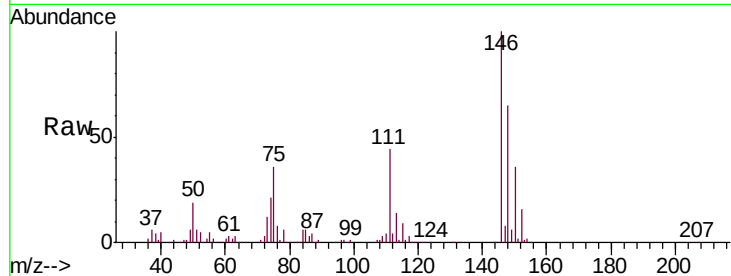




#65
 1,2-Dichlorobenzene
 Concen: 5.089 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

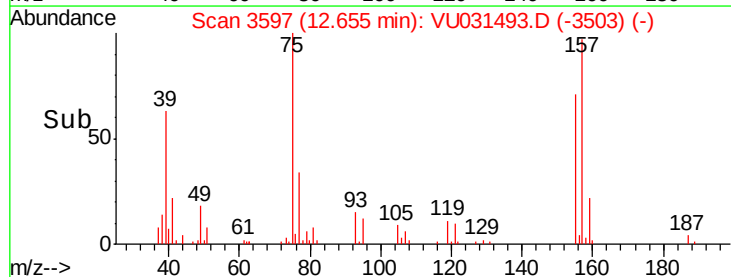
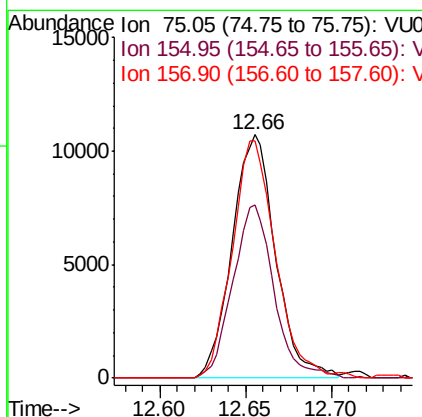
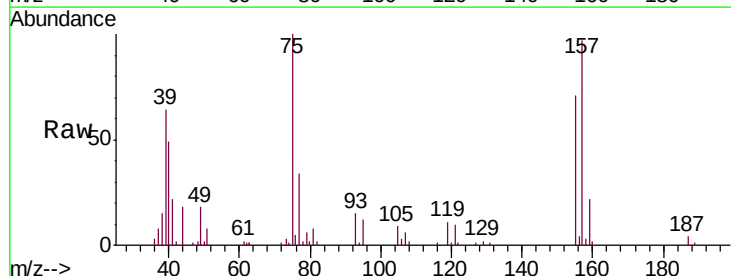
Instrument :
 MSVOA_U
 ClientSampleId :
 BFB04

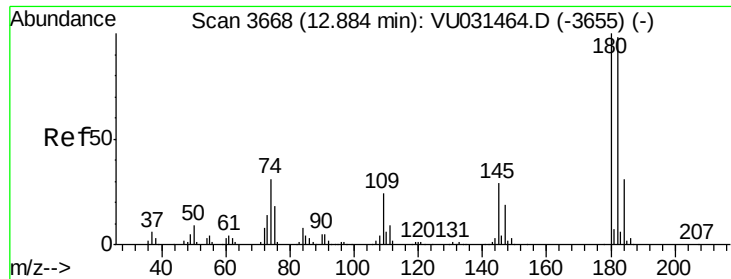
Tgt Ion: 146 Resp: 204044
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.0 51.0
 148 64.9 50.9 76.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.635 ug/L
 RT: 12.66 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion: 75 Resp: 18898
 Ion Ratio Lower Upper
 75 100
 155 71.3 57.2 85.8
 157 97.4 71.9 107.9

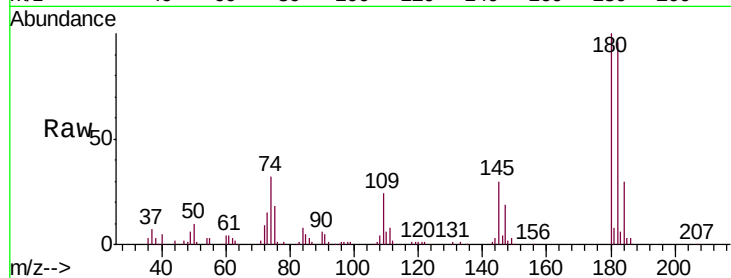




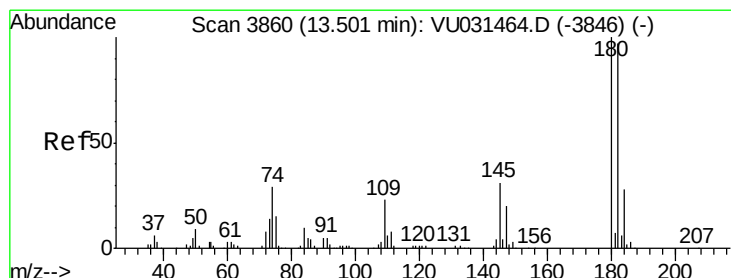
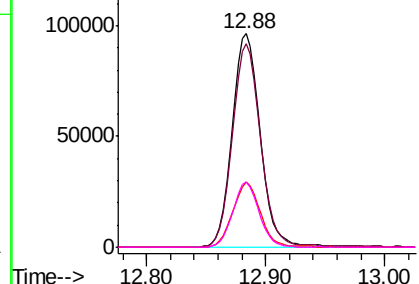
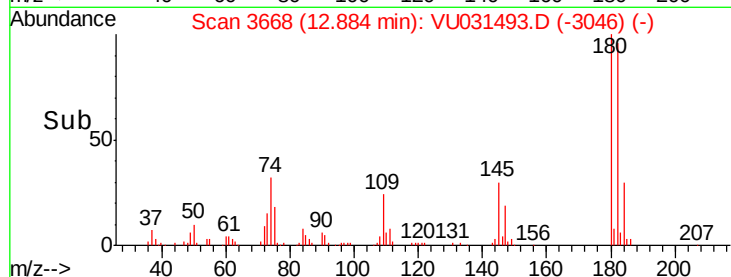
#67
 1,3,5-Trichlorobenzene
 Concen: 5.140 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Instrument :
 MSVOA_U
 ClientSampled :
 BFB04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.8	116.6
184	29.8	24.6	36.8
145	28.6	23.8	35.8

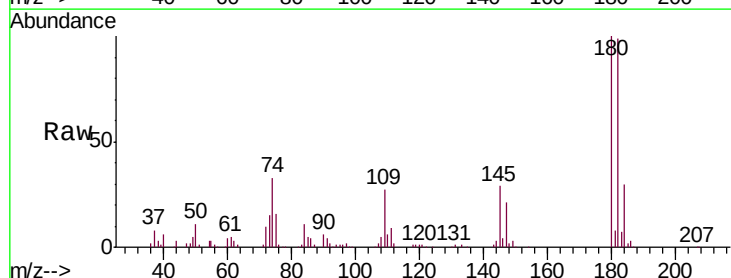


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

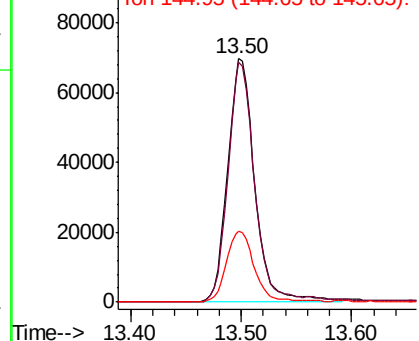
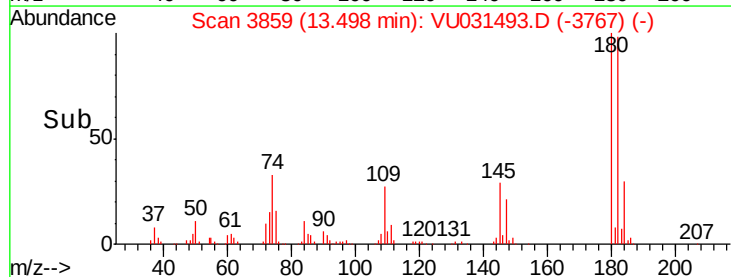


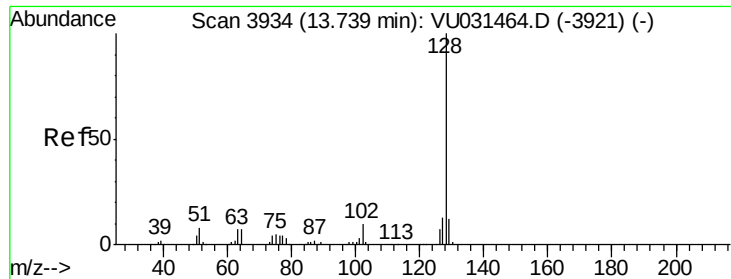
#68
 1,2,4-trichlorobenzene
 Concen: 4.929 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU031493.D
 Acq: 25 Apr 2019 09:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.9	115.3
145	30.0	24.2	36.4



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: 4.301 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

Instrument :

MSVOA_U

ClientSampleId :

BFB04

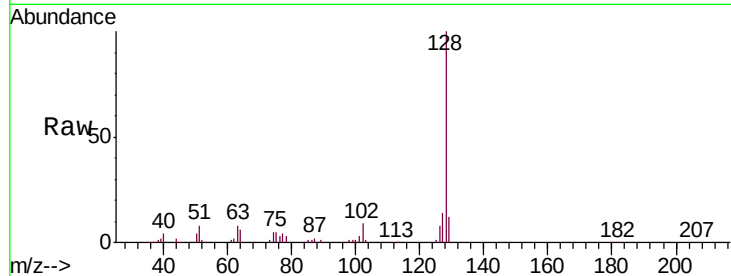
Tgt Ion:128 Resp: 203469

Ion Ratio Lower Upper

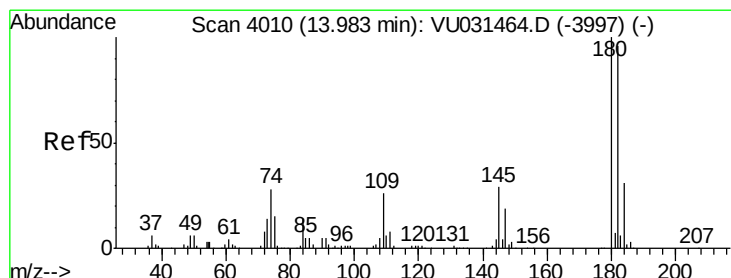
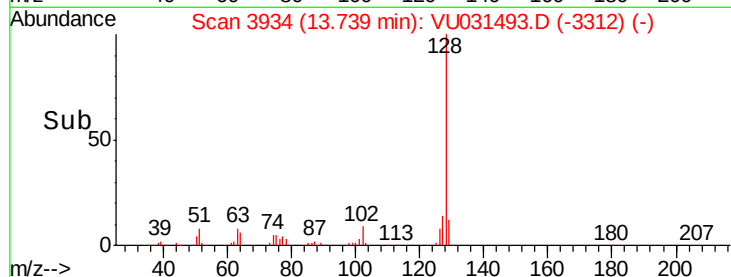
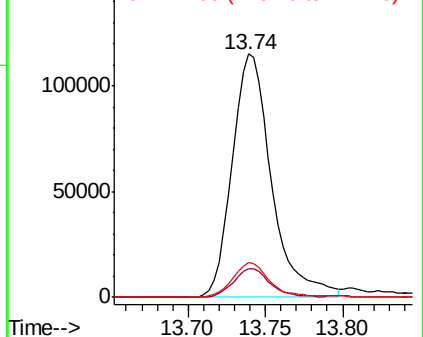
128 100

129 11.0 8.0 12.0

127 13.3 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: 5.106 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU031493.D

Acq: 25 Apr 2019 09:30

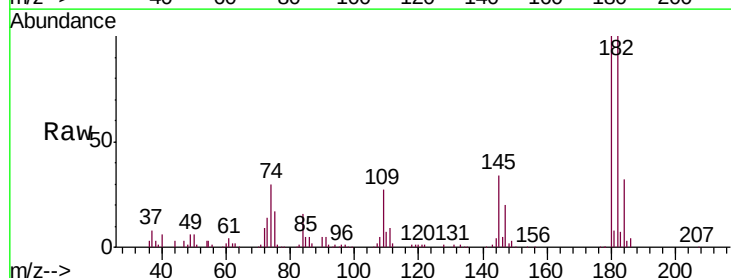
Tgt Ion:180 Resp: 121964

Ion Ratio Lower Upper

180 100

182 96.3 76.4 114.6

145 32.3 25.8 38.6



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

