

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU031011.D
 Acq On : 10 Apr 2019 15:07
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Quant Time: Apr 11 02:12:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR032919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 11 02:07:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	238673	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	241829	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	115606	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	69306	3.80	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.00%
7) Chloroethane-d5	1.68	69	62838	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.40%
11) 1,1-Dichloroethene-d2	2.27	63	159115	4.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.20%
20) 2-Butanone-d5	4.18	46	253392	53.92	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.84%
24) Chloroform-d	4.64	84	138137	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.31	65	80235	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
32) Benzene-d6	5.33	84	268895	4.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
36) 1,2-Dichloropropane-d6	6.33	67	91395	4.28	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.60%
41) Toluene-d8	7.56	98	235005	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
43) trans-1,3-Dichloropropene-	7.85	79	33167	4.18	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.60%
46) 2-Hexanone-d5	8.31	63	171800	49.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.62%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	83177	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.80%
64) 1,2-Dichlorobenzene-d4	11.86	152	86948	4.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	137011	5.153	ug/L	99
3) Chloromethane	1.32	50	150782	4.838	ug/L	98
5) Vinyl chloride	1.40	62	145836	5.107	ug/L	99
6) Bromomethane	1.62	94	76494	5.475	ug/L	97
8) Chloroethane	1.69	64	84427	5.197	ug/L	98
9) Trichlorofluoromethane	1.88	101	184398	5.696	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	98285	5.460	ug/L	99
12) 1,1-Dichloroethene	2.28	96	89370	5.132	ug/L #	80
13) Acetone	2.32	43	220857	60.784	ug/L	99
14) Carbon disulfide	2.47	76	306408	5.017	ug/L	100
15) Methyl Acetate	2.61	43	57392	6.114	ug/L	98
16) Methylene chloride	2.69	84	110636	5.449	ug/L	99
17) Methyl tert-butyl Ether	3.00	73	269304	5.777	ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	101238	5.506	ug/L	93
19) 1,1-Dichloroethane	3.44	63	193629	4.979	ug/L	99
21) 2-Butanone	4.27	43	319445	55.473	ug/L	95
22) cis-1,2-Dichloroethene	4.22	96	99212	5.060	ug/L	100

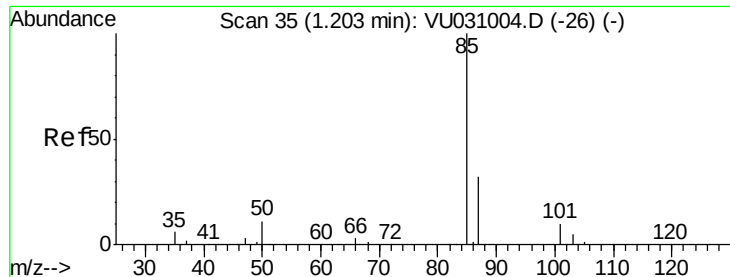
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041019\
 Data File : VU031011.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 11 02:07:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	45793	5.847	ug/L	92
25) Chloroform	4.67	83	198985	5.613	ug/L	100
27) 1,2-Dichloroethane	5.40	62	123790	5.381	ug/L	99
29) 1,1,1-Trichloroethane	4.91	97	160882	5.222	ug/L	98
30) Cyclohexane	4.99	56	155983	4.194	ug/L	98
31) Carbon tetrachloride	5.13	117	136116	5.263	ug/L	97
33) Benzene	5.38	78	391502	4.786	ug/L	100
34) Trichloroethene	6.18	95	99828	4.875	ug/L	96
35) Methylcyclohexane	6.41	83	139402	4.265	ug/L	98
37) 1,2-Dichloropropane	6.43	63	109020	4.843	ug/L	99
38) Bromodichloromethane	6.75	83	132582	5.043	ug/L	97
39) cis-1,3-Dichloropropene	7.27	75	138542	4.601	ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	727047	51.769	ug/L	98
42) Toluene	7.63	91	414161	5.048	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	115448	4.954	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	72709	5.416	ug/L	97
47) Tetrachloroethene	8.22	164	76679	5.338	ug/L	97
48) 2-Hexanone	8.36	43	533330	54.808	ug/L	99
49) Dibromochloromethane	8.47	129	87336	5.441	ug/L	94
50) 1,2-Dibromoethane	8.58	107	70481	5.633	ug/L	96
51) Chlorobenzene	9.12	112	245878	4.860	ug/L	98
52) Ethylbenzene	9.25	91	412805	4.718	ug/L	99
53) m,p-Xylene	9.37	106	152530	4.990	ug/L	94
54) o-Xylene	9.77	106	145088	4.841	ug/L	98
55) Styrene	9.79	104	266395	5.268	ug/L	96
56) Isopropylbenzene	10.16	105	387715	4.842	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	94885	5.317	ug/L	96
59) 1,2,3-Trichloropropane	10.49	75	68274	5.427	ug/L	97
61) Bromoform	9.95	173	50840	5.807	ug/L	94
62) 1,3-Dichlorobenzene	11.41	146	175324	4.806	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	178694	4.673	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	174592	4.919	ug/L	94
66) 1,2-Dibromo-3-chloropropan	12.65	75	14703	5.354	ug/L	93
67) 1,3,5-Trichlorobenzene	12.88	180	136558	5.017	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	101368	4.822	ug/L	99
69) Naphthalene	13.74	128	159004	4.710	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	102040	5.209	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.153 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

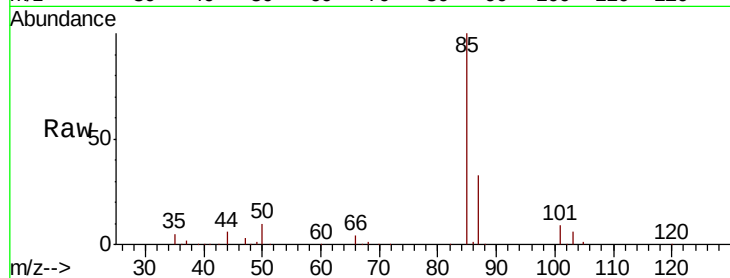
VSTD00518

Tot Ion: 85 Resp: 137011

Ion Ratio Lower Upper

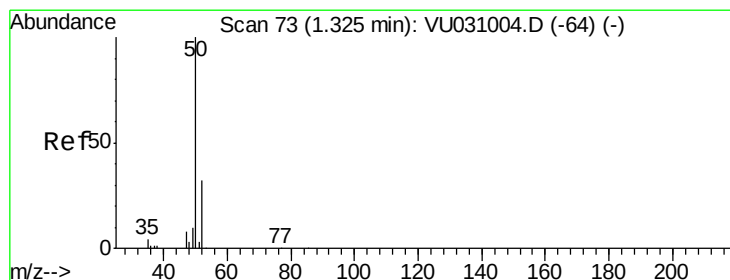
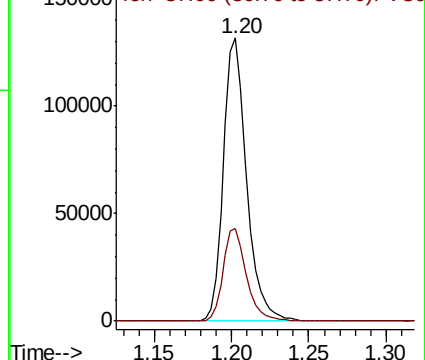
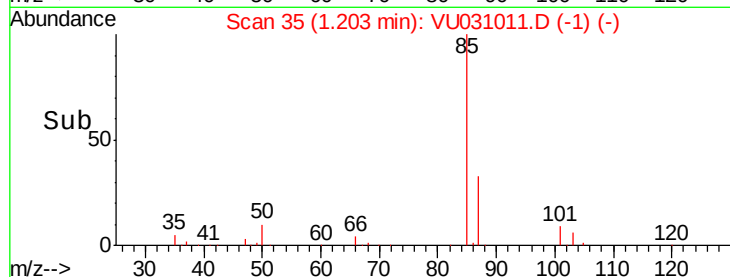
85 100

87 32.8 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU031011.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU031011.D (-1) (-)



#3

Chloromethane

Concen: 4.838 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU031011.D

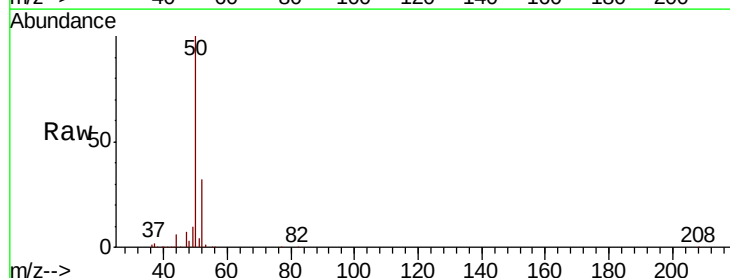
Acq: 10 Apr 2019 15:07

Tgt Ion: 50 Resp: 150782

Ion Ratio Lower Upper

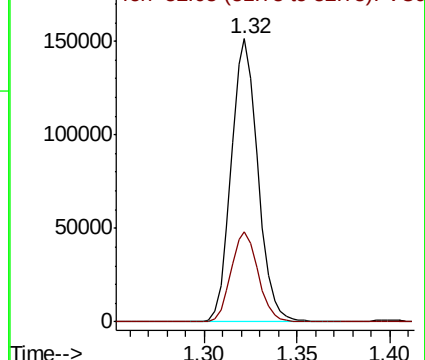
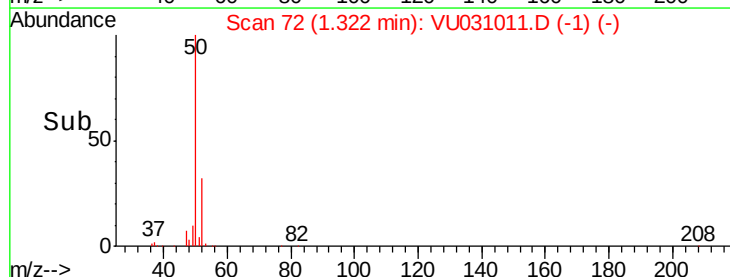
50 100

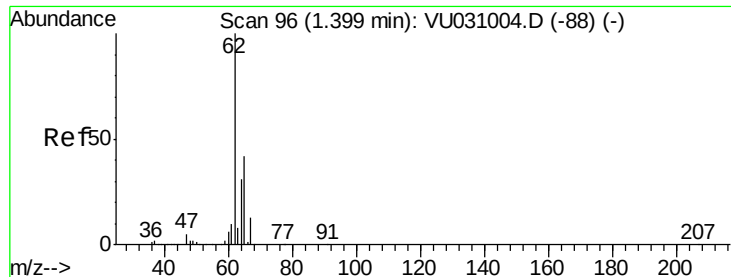
52 31.8 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU031011.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU031011.D (-1) (-)





#5

Vinyl chloride

Concen: 5.107 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

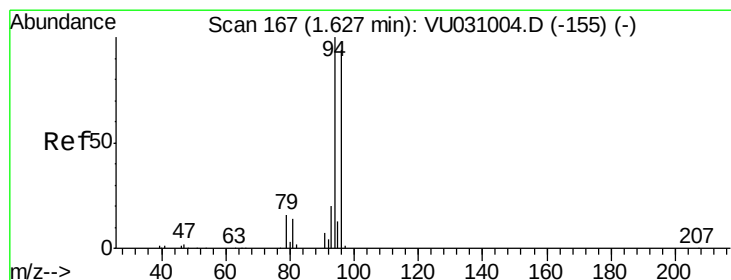
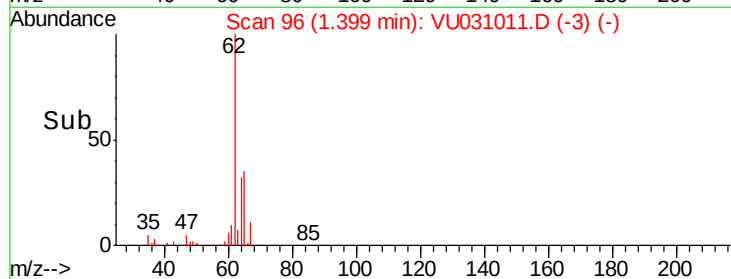
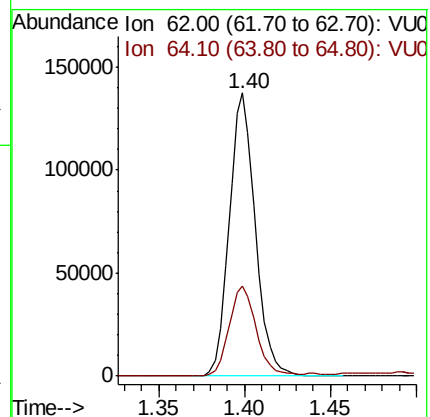
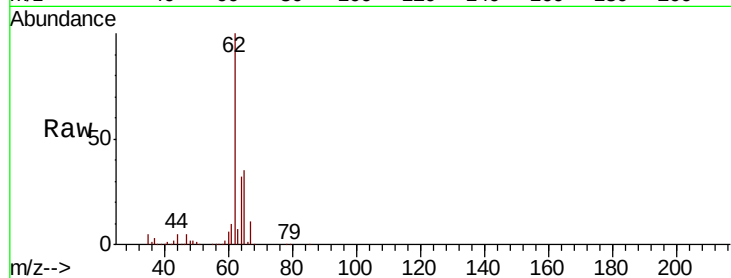
VSTD00518

Tot Ion: 62 Resp: 145836

Ion Ratio Lower Upper

62 100

64 31.8 22.5 41.9



#6

Bromomethane

Concen: 5.475 ug/L

RT: 1.62 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU031011.D

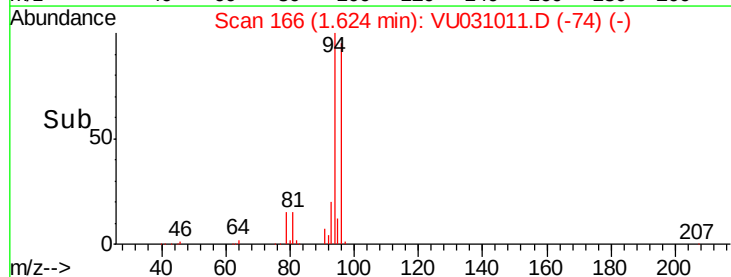
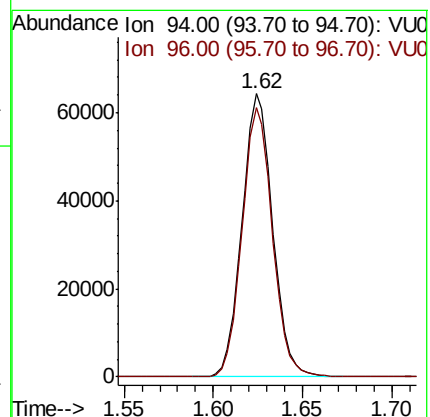
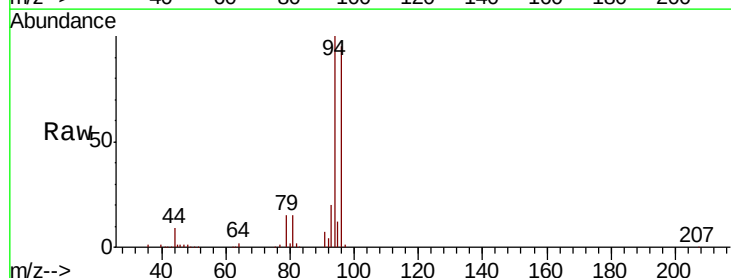
Acq: 10 Apr 2019 15:07

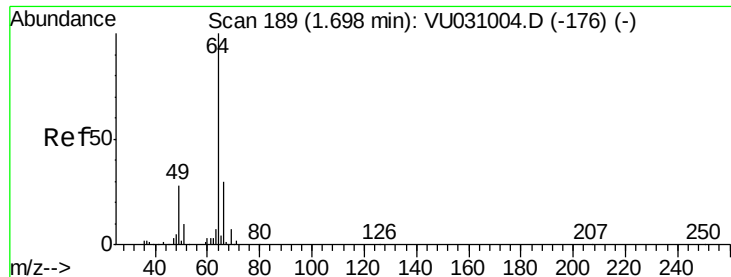
Tgt Ion: 94 Resp: 76494

Ion Ratio Lower Upper

94 100

96 95.3 64.6 120.0





#8

Chloroethane

Concen: 5.197 ug/L

RT: 1.69 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

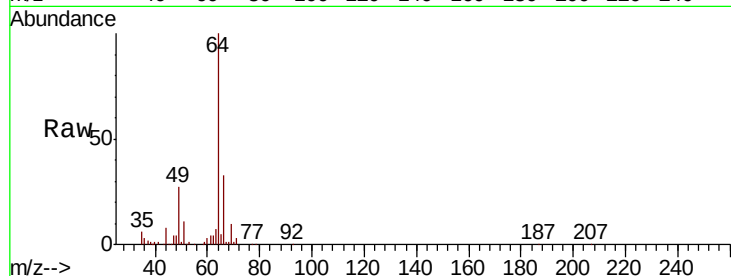
VSTD00518

Tot Ion: 64 Resp: 84427

Ion Ratio Lower Upper

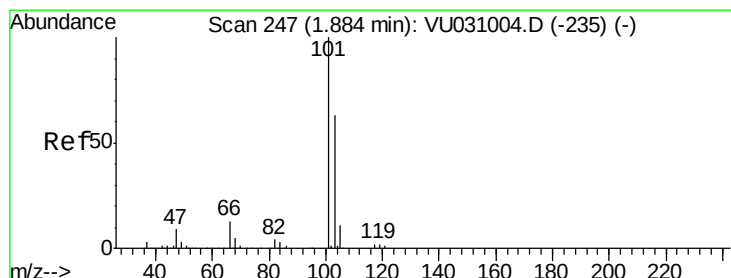
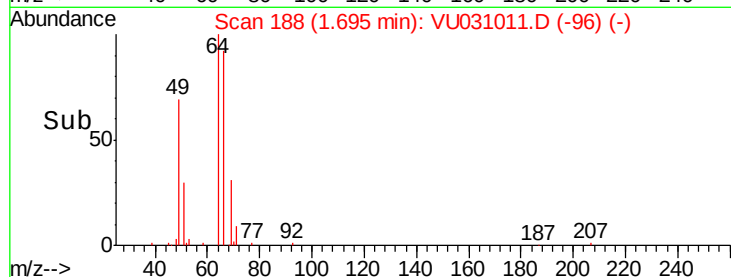
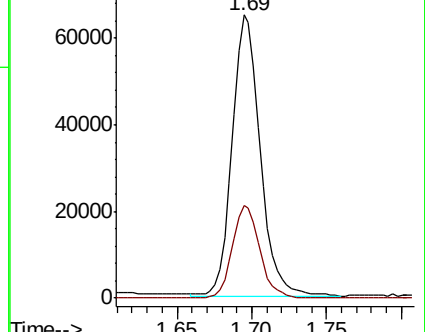
64 100

66 32.8 22.1 41.1



Abundance Ion 64.10 (63.80 to 64.80): VU031011.D (-96) (-)

Ion 66.05 (65.75 to 66.75): VU031011.D (-96) (-)



#9

Trichlorofluoromethane

Concen: 5.696 ug/L

RT: 1.88 min Scan# 247

Delta R.T. -0.00 min

Lab File: VU031011.D

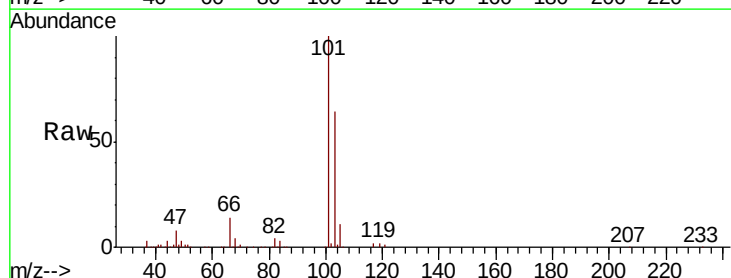
Acq: 10 Apr 2019 15:07

Tgt Ion: 101 Resp: 184398

Ion Ratio Lower Upper

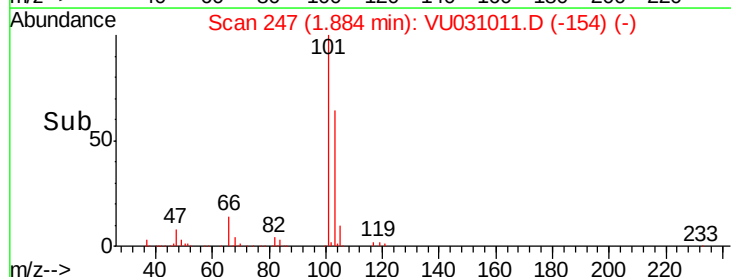
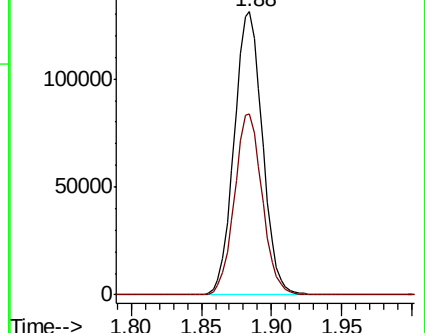
101 100

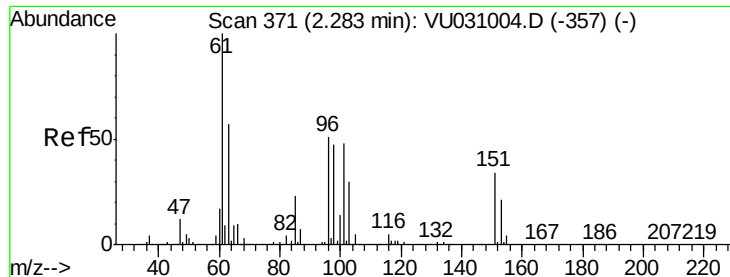
103 62.9 52.0 78.0



Abundance Ion 101.00 (100.70 to 101.70): VU031011.D (-154) (-)

Ion 103.00 (102.70 to 103.70): VU031011.D (-154) (-)





#10

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

Concen: 5.460 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

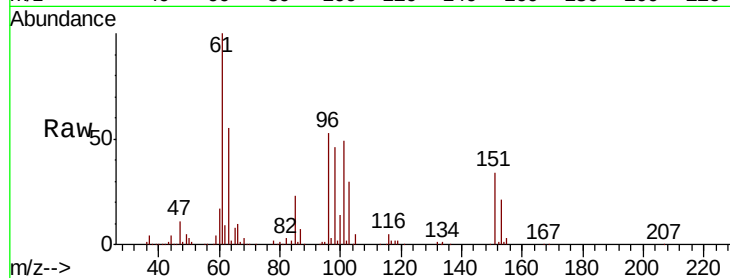
Tot Ion:101 Resp: 98285

Ion Ratio Lower Upper

101 100

85 45.1 35.3 52.9

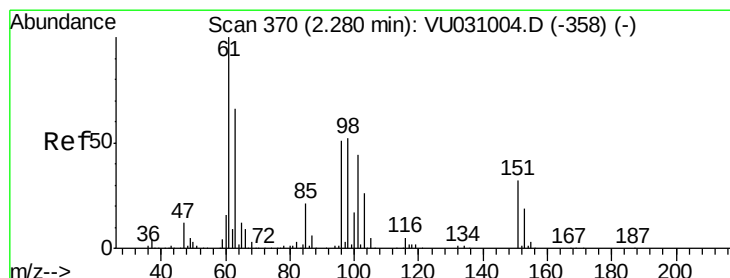
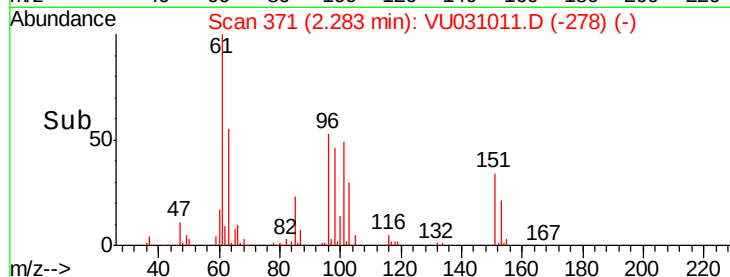
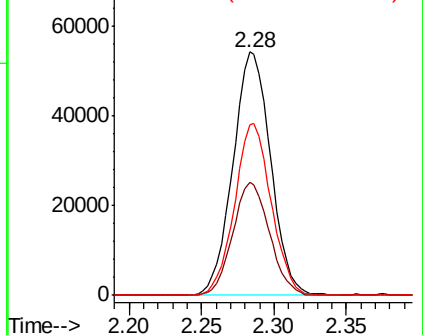
151 68.2 55.2 82.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.132 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

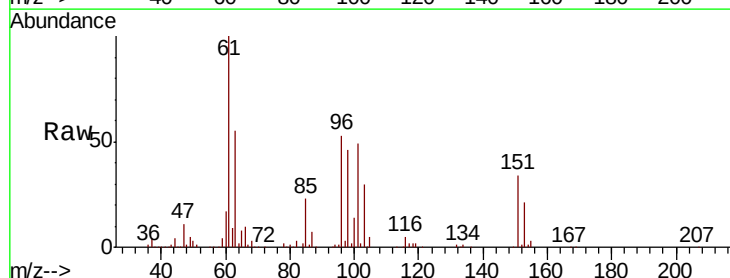
Tgt Ion: 96 Resp: 89370

Ion Ratio Lower Upper

96 100

61 188.6 136.9 254.3

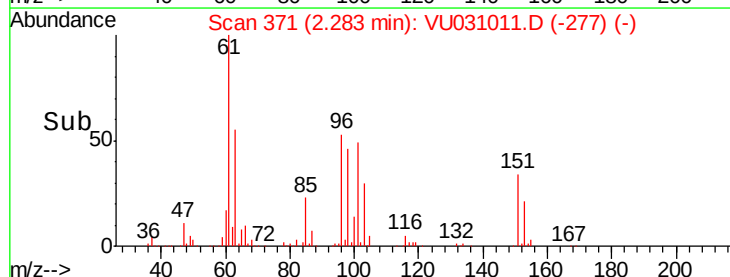
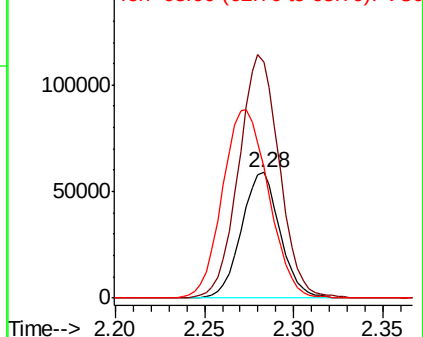
63 104.2 107.7 200.1#

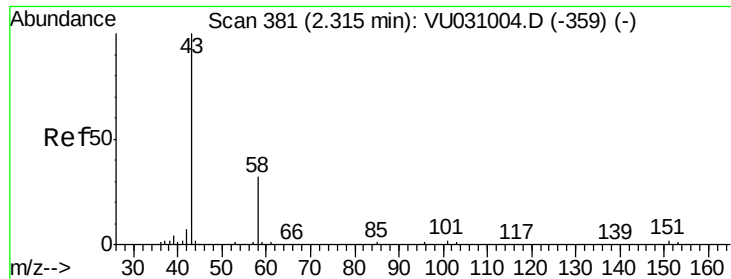


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 60.784 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

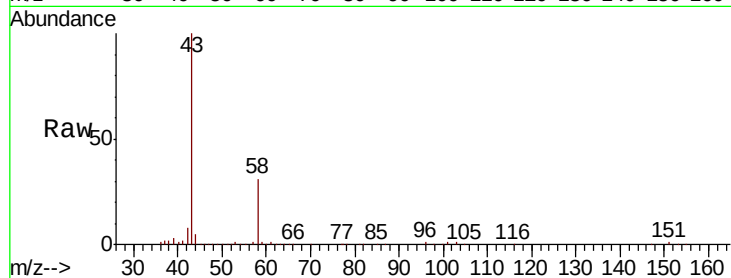
VSTD00518

Tot Ion: 43 Resp: 220857

Ion Ratio Lower Upper

43 100

58 31.0 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU031011.D (-382) (-)

Ion 58.05 (57.75 to 58.75): VU031011.D (-382) (-)

2.32

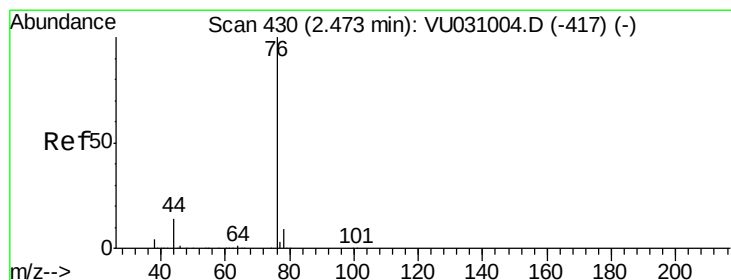
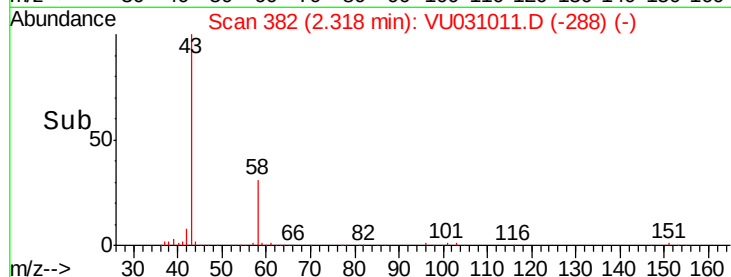
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 5.017 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU031011.D

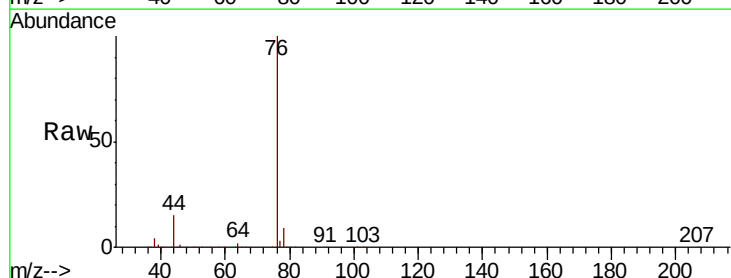
Acq: 10 Apr 2019 15:07

Tgt Ion: 76 Resp: 306408

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU031011.D (-430) (-)

Ion 78.00 (77.70 to 78.70): VU031011.D (-430) (-)

2.47

200000

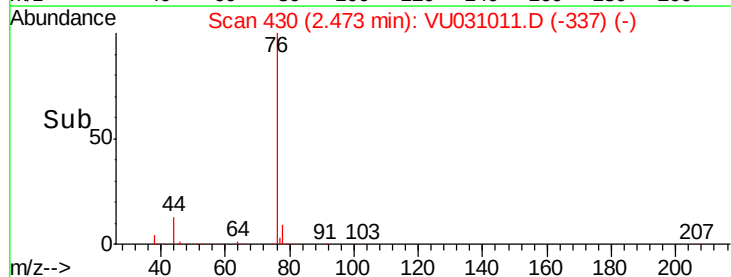
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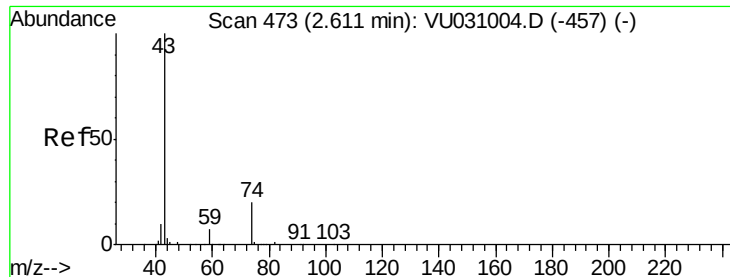
100000

50000

0

Time-->

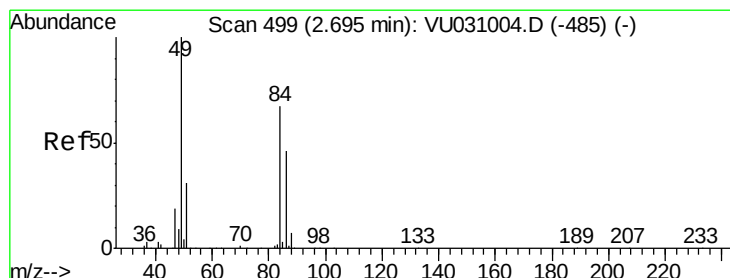
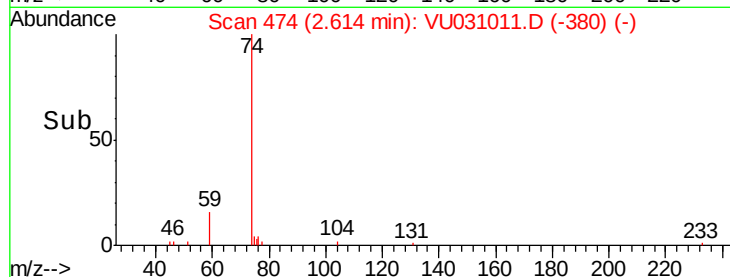
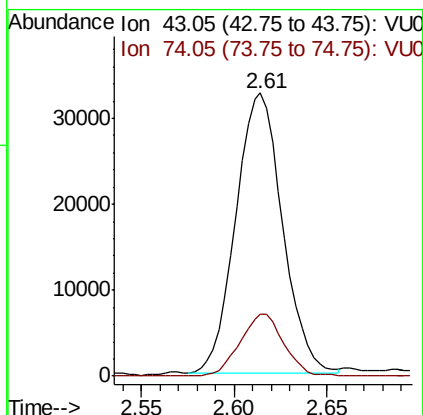
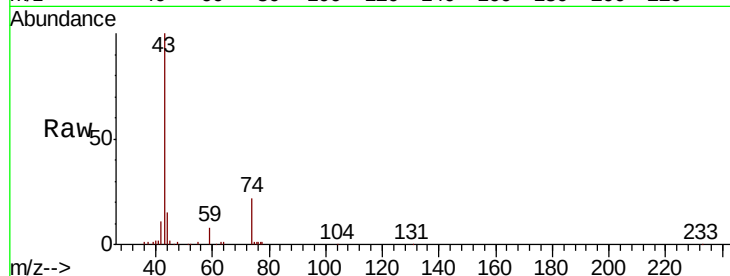




#15
Methvl Acetate
Concen: 6.114 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

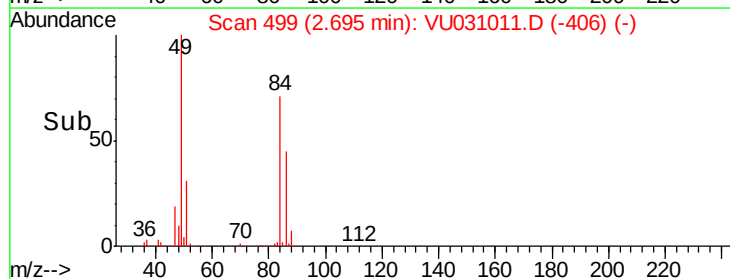
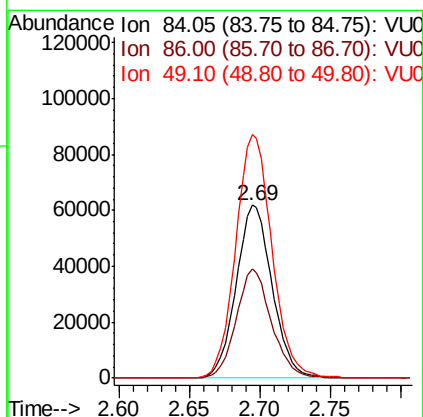
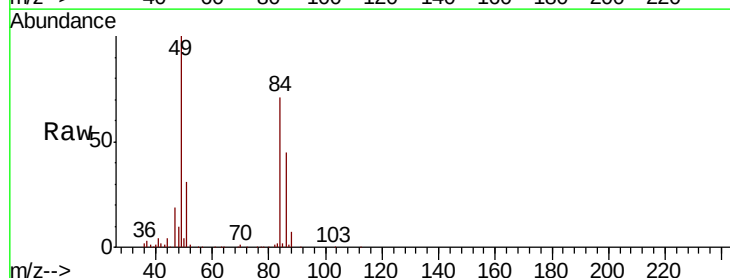
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

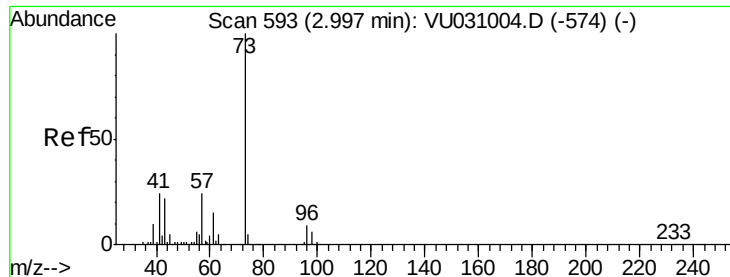
Tot Ion: 43 Resp: 57392
Ion Ratio Lower Upper
43 100
74 20.6 17.1 25.7



#16
Methylene chloride
Concen: 5.449 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion: 84 Resp: 110636
Ion Ratio Lower Upper
84 100
86 63.0 43.4 80.6
49 141.0 98.5 182.9

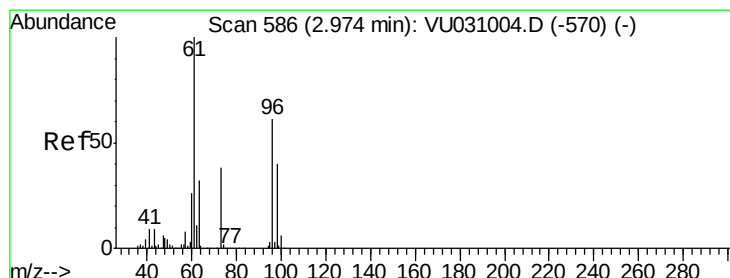
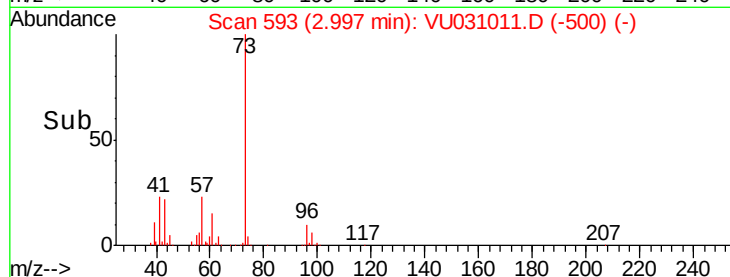
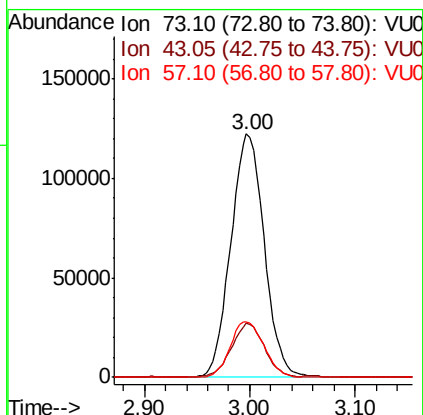
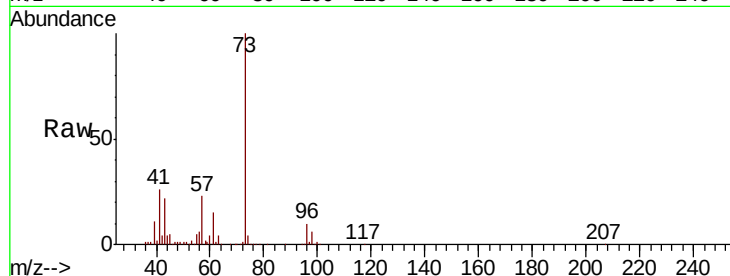




#17
Methyl tert-butyl Ether
Concen: 5.777 ug/L
RT: 3.00 min Scan# 593
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

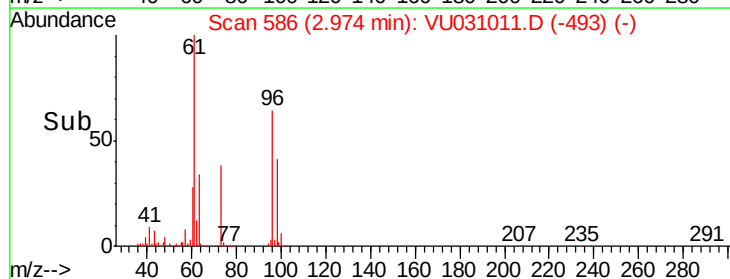
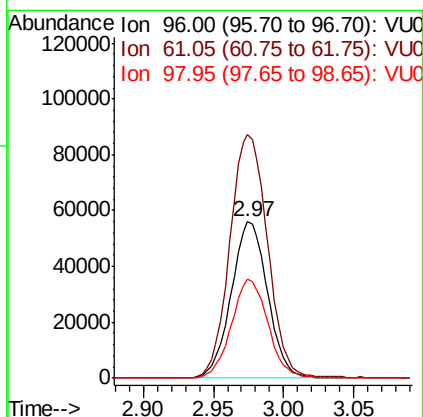
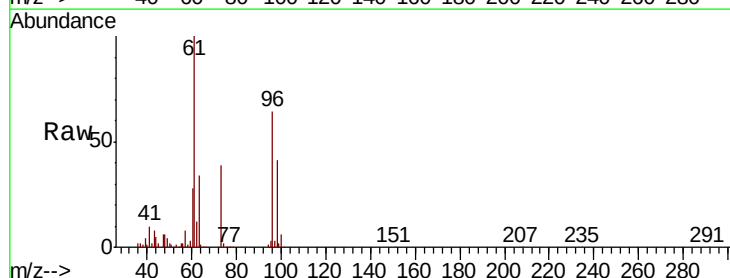
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

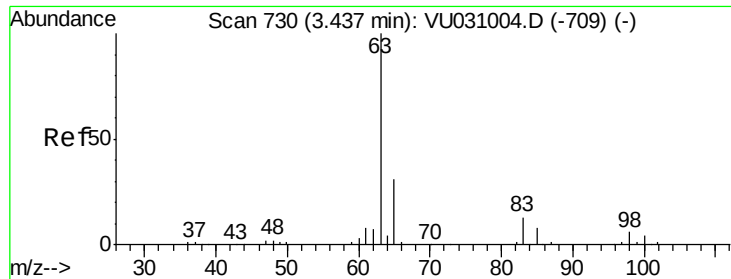
Tot Ion	Ratio	Lower	Upper
73	100		
43	21.1	17.0	25.4
57	23.1	19.4	29.2



#18
trans-1,2-Dichloroethene
Concen: 5.506 ug/L
RT: 2.97 min Scan# 586
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.6	116.8	216.8
98	63.1	46.8	87.0

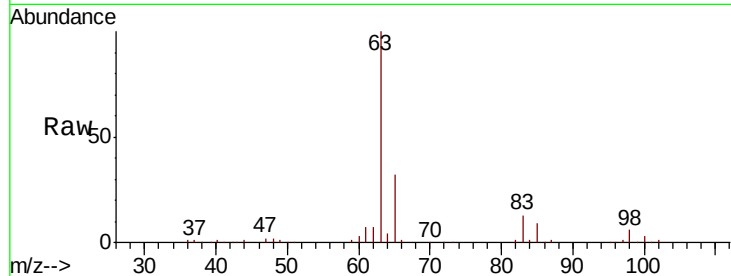




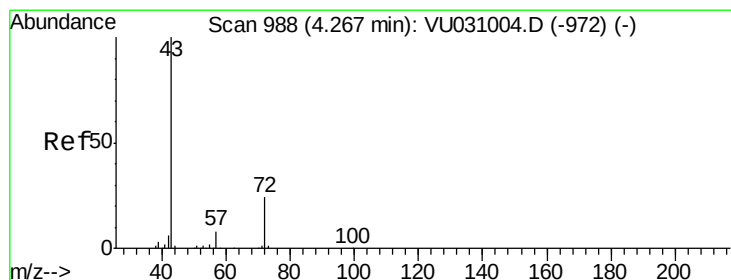
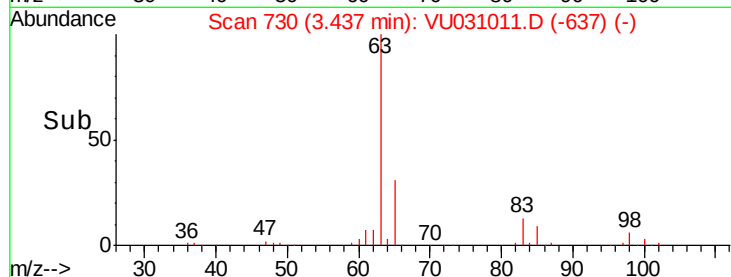
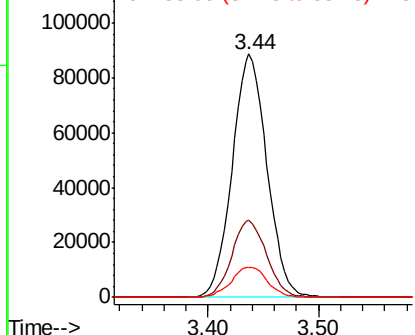
#19
 1,1-Dichloroethane
 Concen: 4.979 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion: 63 Resp: 193629
 Ion Ratio Lower Upper
 63 100
 65 31.6 21.6 40.0
 83 12.5 9.1 16.9

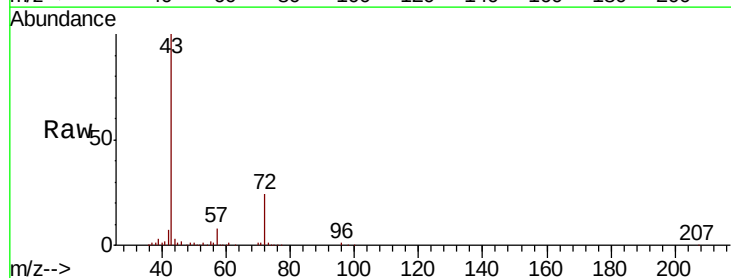


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

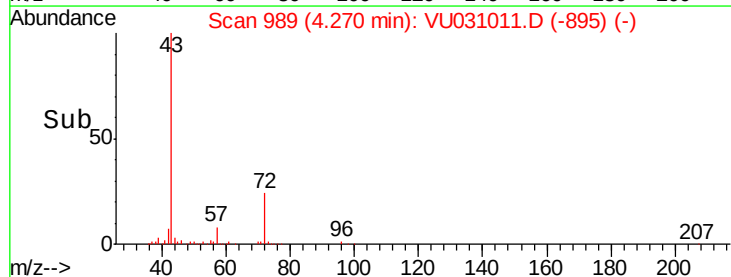
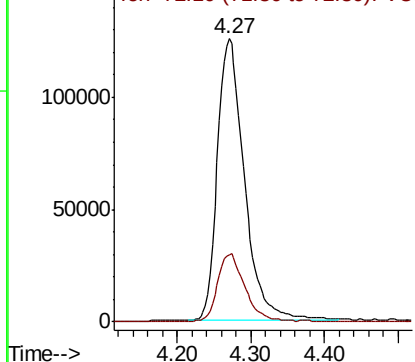


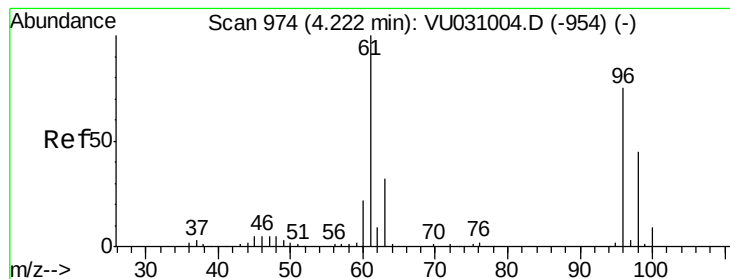
#21
 2-Butanone
 Concen: 55.473 ug/L
 RT: 4.27 min Scan# 989
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion: 43 Resp: 319445
 Ion Ratio Lower Upper
 43 100
 72 24.6 11.2 33.5



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: 5.060 ug/L

RT: 4.22 min Scan# 973

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

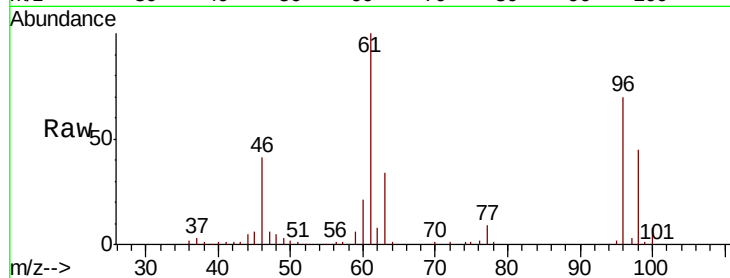
Tot Ion: 96 Resp: 99212

Ion Ratio Lower Upper

96 100

61 141.9 98.9 183.7

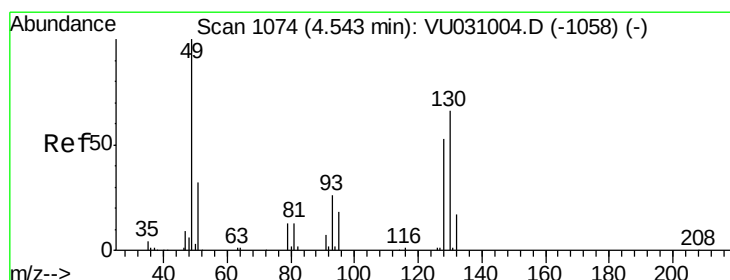
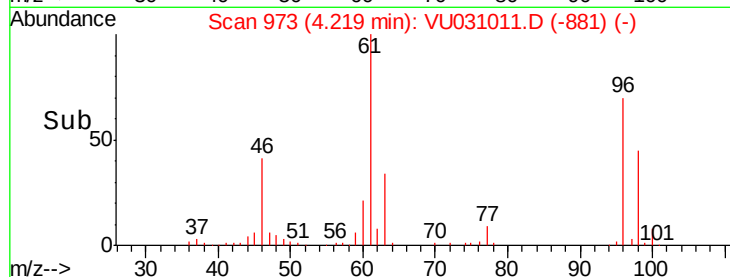
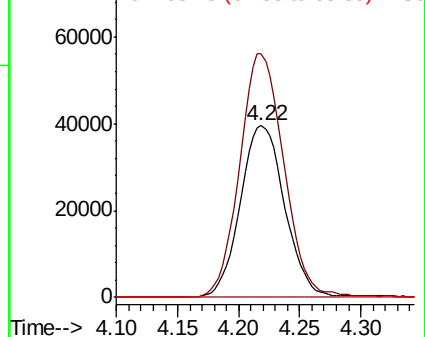
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 5.847 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Tgt Ion:128 Resp: 45793

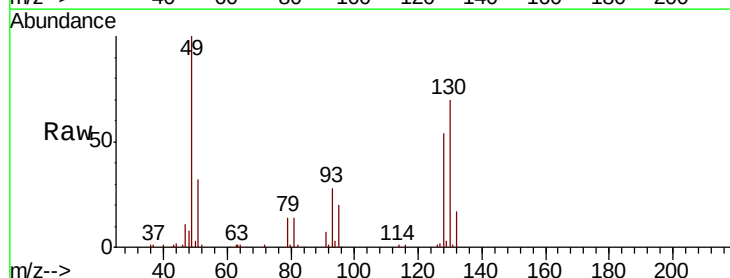
Ion Ratio Lower Upper

128 100

49 183.9 140.6 261.2

130 128.5 87.3 162.1

51 58.4 51.8 77.6

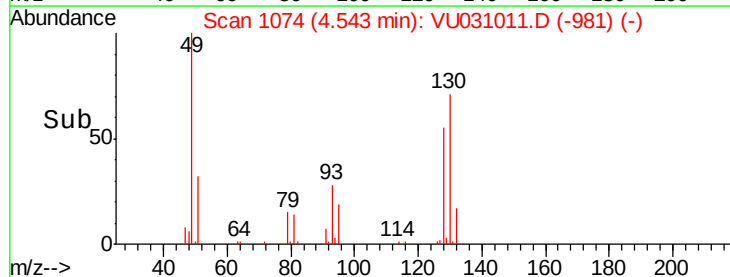
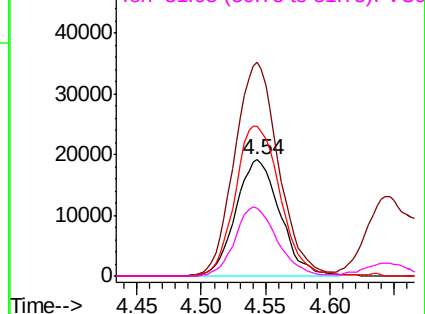


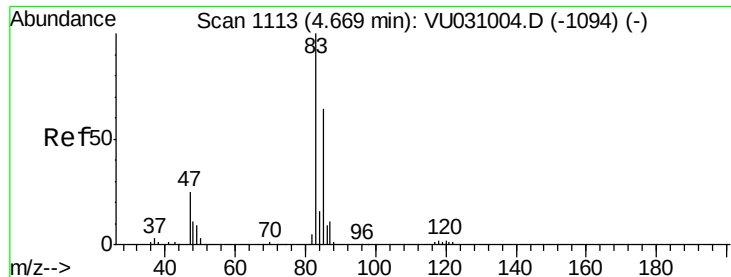
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

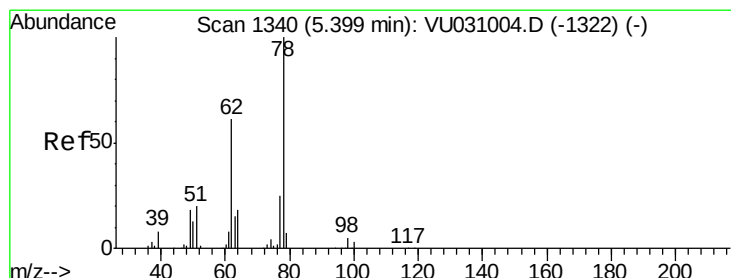
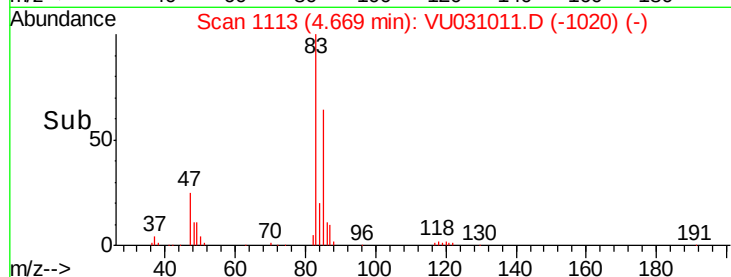
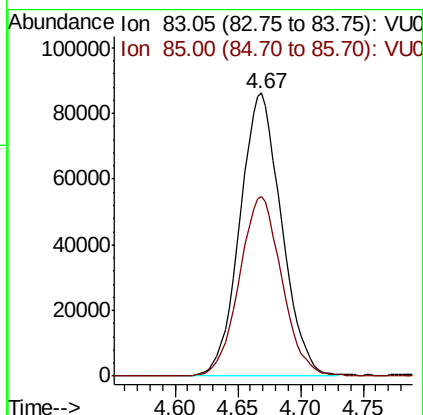
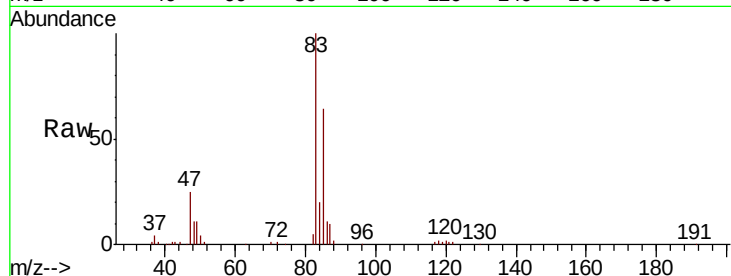




#25
Chloroform
Concen: 5.613 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

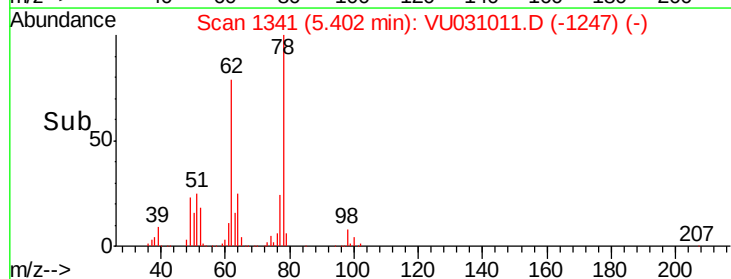
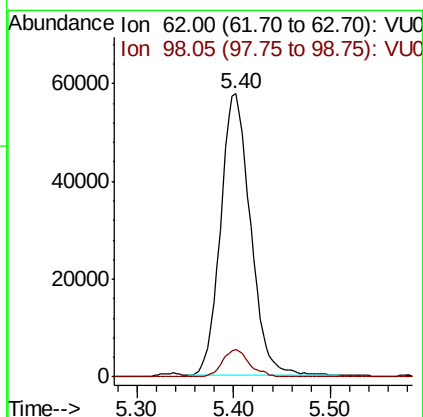
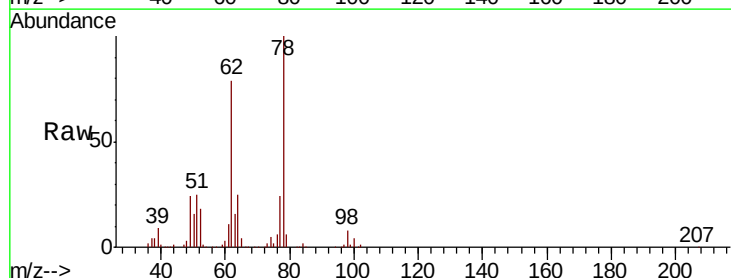
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

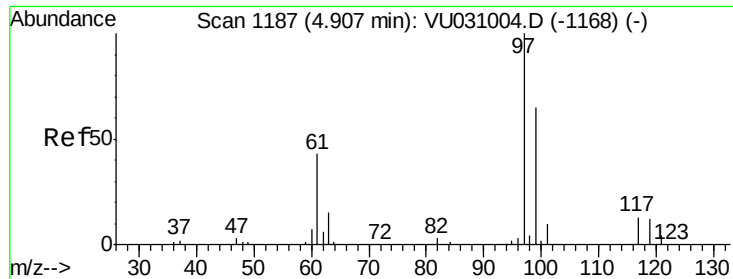
Tot Ion: 83 Resp: 198985
Ion Ratio Lower Upper
83 100
85 63.5 44.2 82.2



#27
1,2-Dichloroethane
Concen: 5.381 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion: 62 Resp: 123790
Ion Ratio Lower Upper
62 100
98 9.6 7.4 11.2

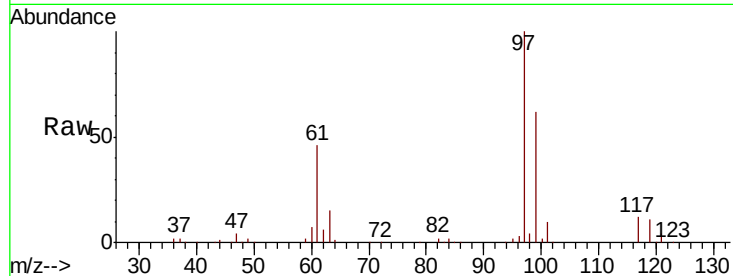




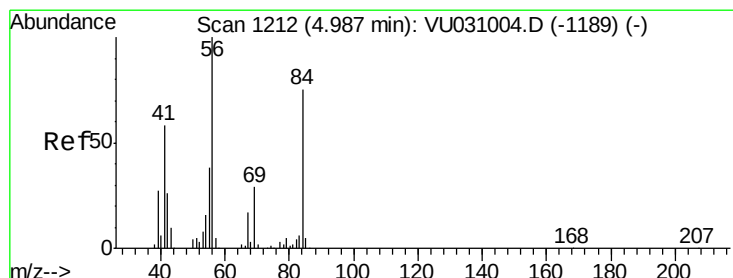
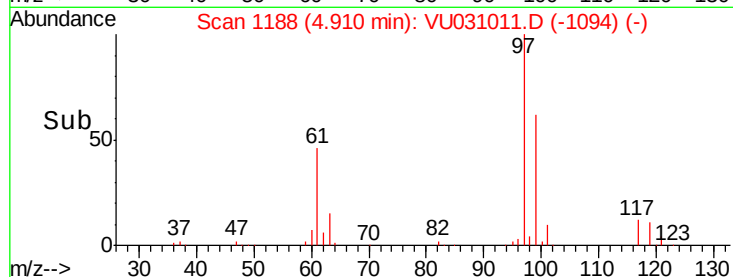
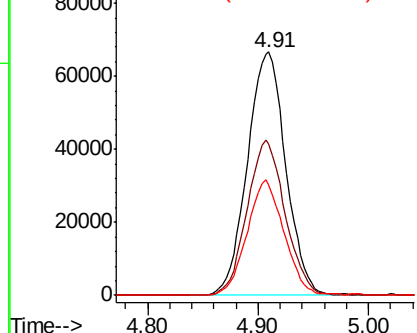
#29
 1,1,1-Trichloroethane
 Concen: 5.222 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion: 97 Resp: 160882
 Ion Ratio Lower Upper
 97 100
 99 63.1 51.8 77.6
 61 45.5 38.1 57.1

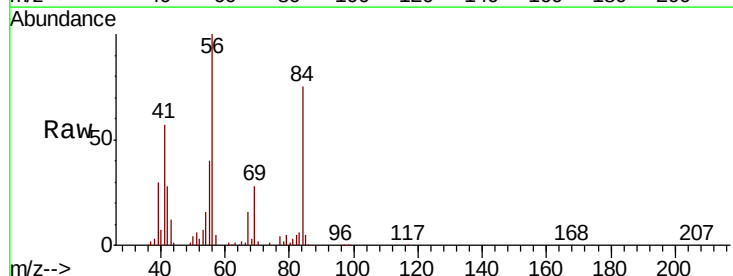


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

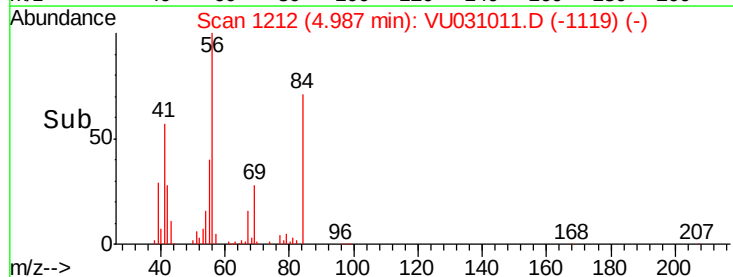
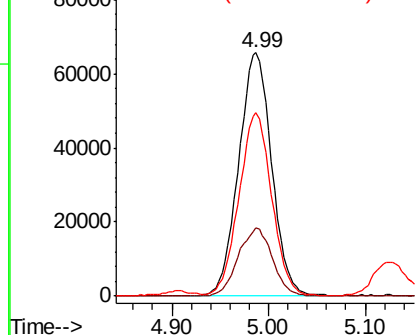


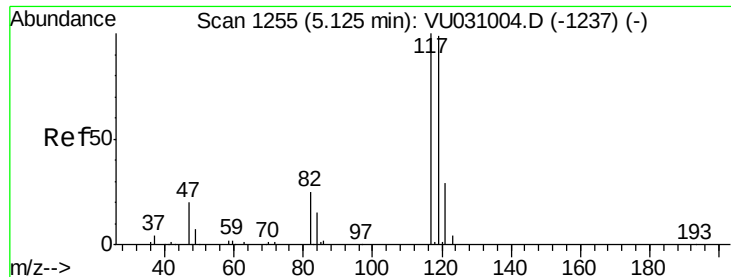
#30
 Cyclohexane
 Concen: 4.194 ug/L
 RT: 4.99 min Scan# 1212
 Delta R.T. -0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion: 56 Resp: 155983
 Ion Ratio Lower Upper
 56 100
 69 28.8 22.3 33.5
 84 74.1 58.3 87.5



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.263 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

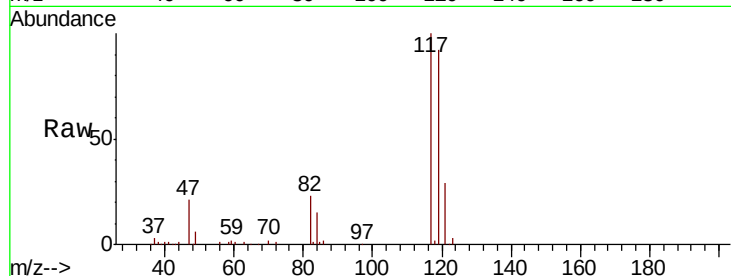
VSTD00518

Tot Ion:117 Resp: 136116

Ion Ratio Lower Upper

117 100

119 95.1 73.7 110.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.13

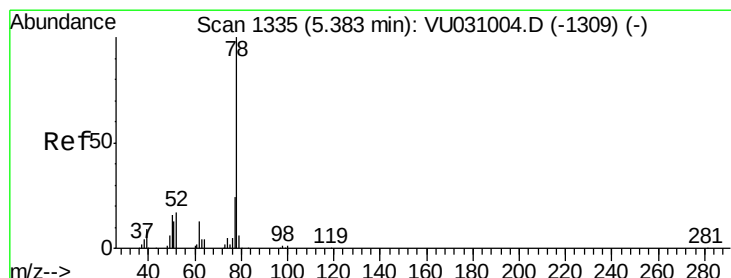
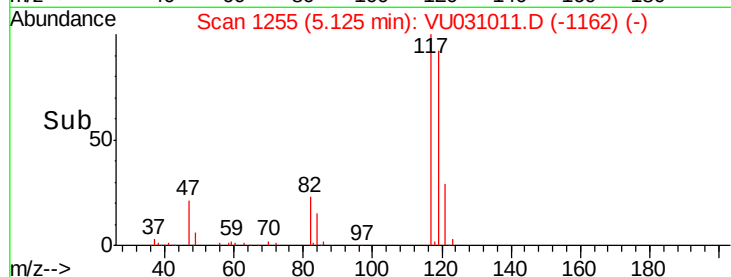
60000

40000

20000

0

Time--> 5.00 5.05 5.10 5.15 5.20



#33

Benzene

Concen: 4.786 ug/L

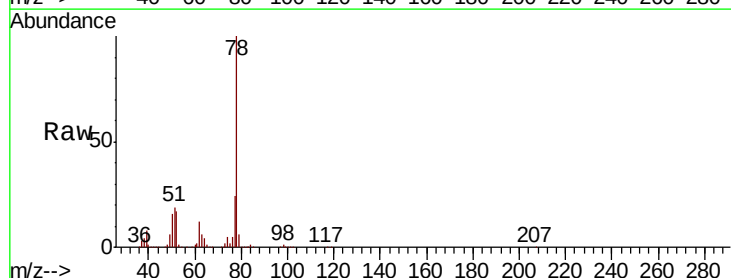
RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Tgt Ion: 78 Resp: 391502



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.38

200000

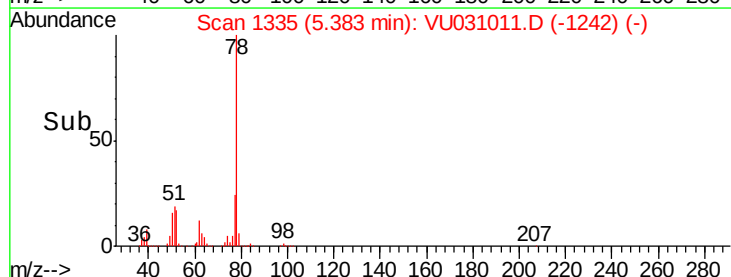
150000

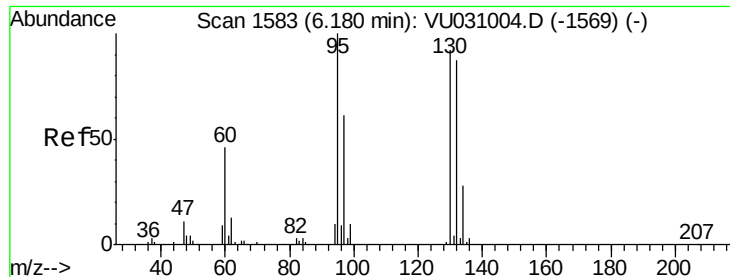
100000

50000

0

Time--> 5.30 5.40 5.50





#34

Trichloroethene

Concen: 4.875 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

Tot Ion: 95 Resp: 99828

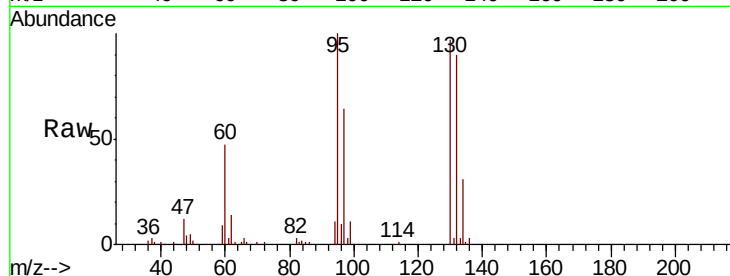
Ion Ratio Lower Upper

95 100

97 63.5 43.5 80.9

132 90.5 60.7 112.7

130 97.4 65.1 120.9

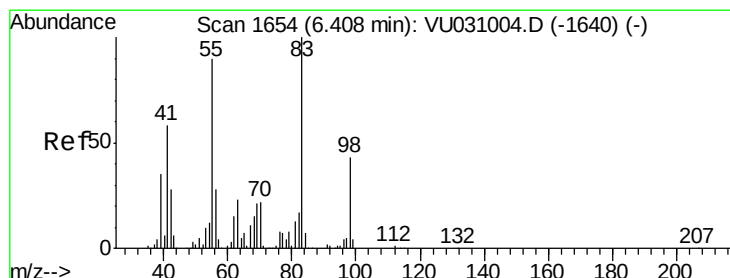
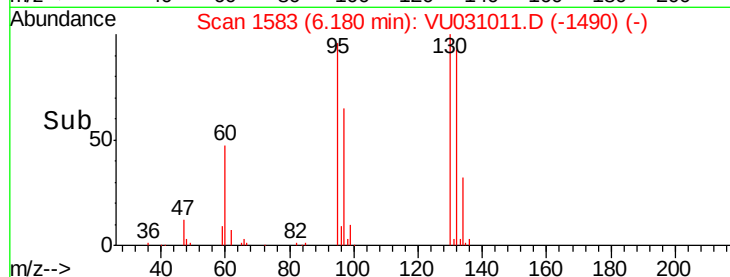
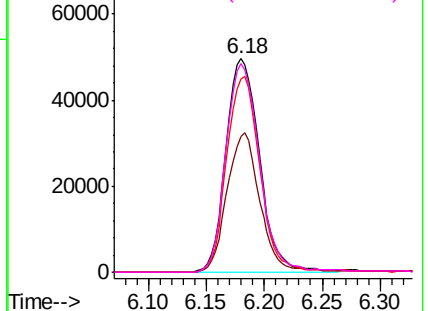


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.265 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

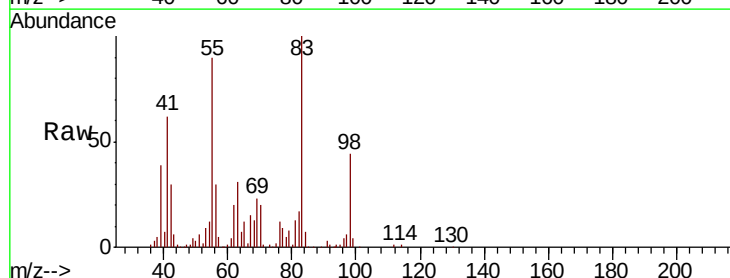
Tgt Ion: 83 Resp: 139402

Ion Ratio Lower Upper

83 100

55 92.3 72.6 108.8

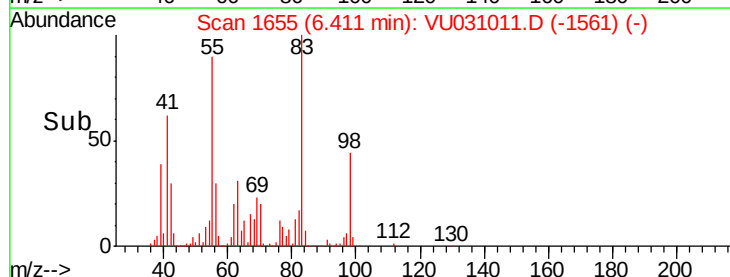
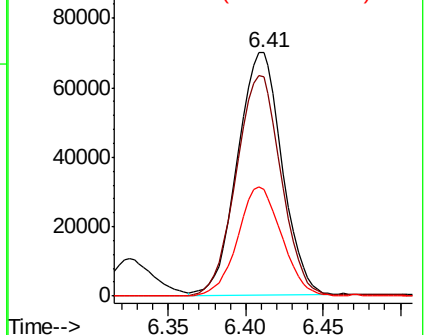
98 44.6 35.0 52.6

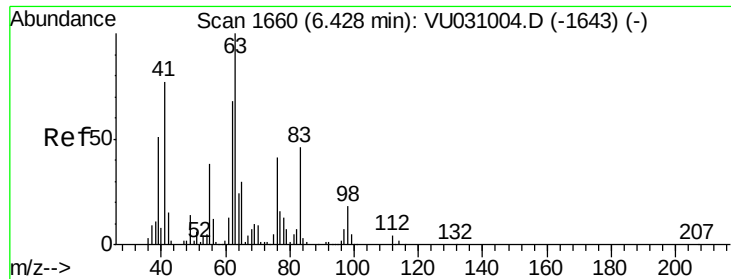


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

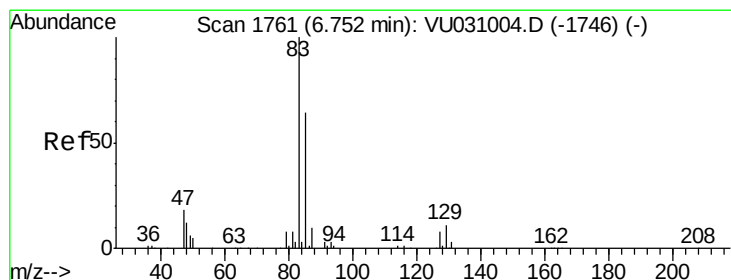
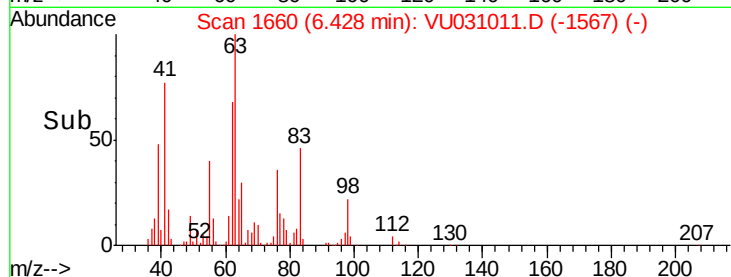
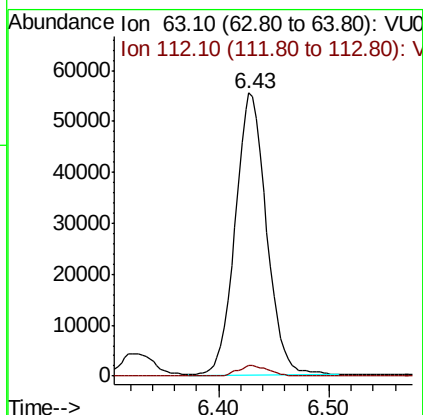
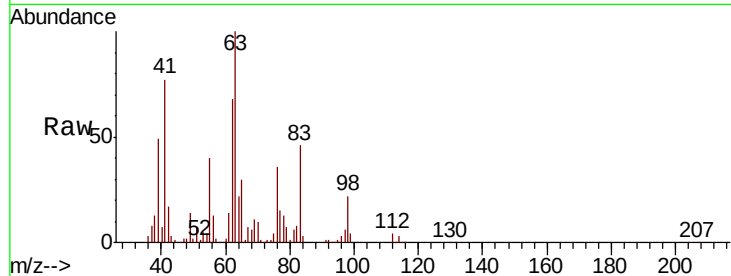




#37
 1,2-Dichloropropane
 Concen: 4.843 ug/L
 RT: 6.43 min Scan# 1660
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

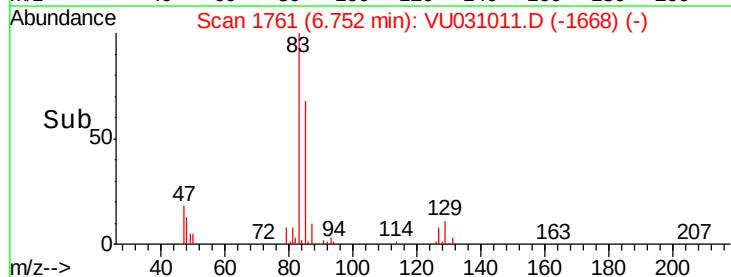
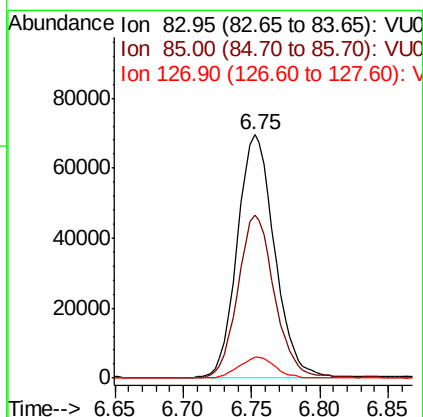
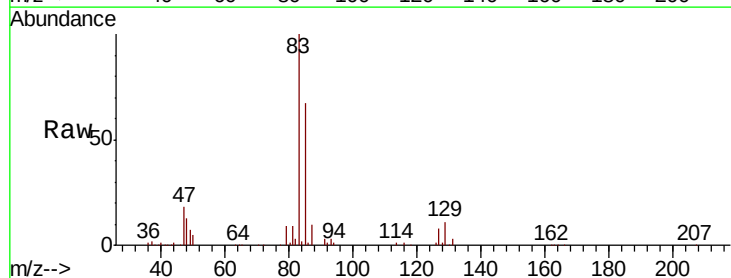
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

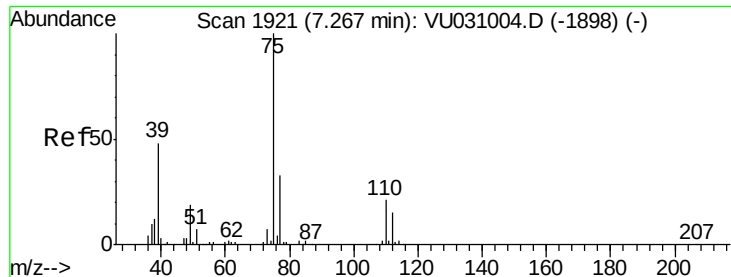
Tot Ion: 63 Resp: 109020
 Ion Ratio Lower Upper
 63 100
 112 3.8 2.8 4.2



#38
 Bromodichloromethane
 Concen: 5.043 ug/L
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion: 83 Resp: 132582
 Ion Ratio Lower Upper
 83 100
 85 67.0 45.1 83.9
 127 8.4 6.5 9.7





#39

cis-1,3-Dichloropropene

Concen: 4.601 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

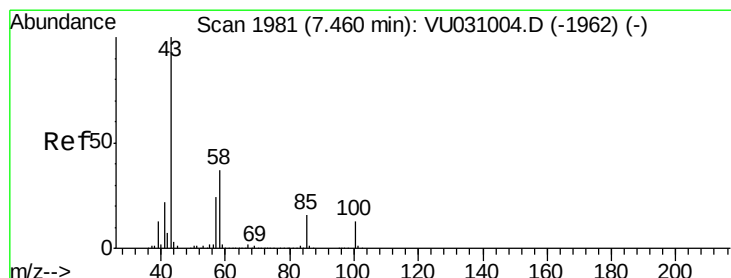
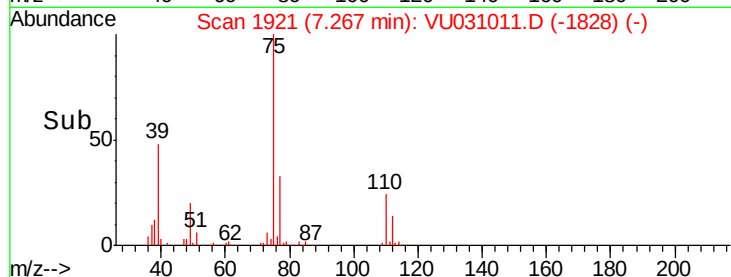
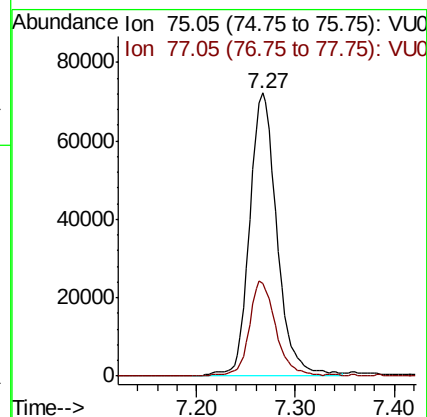
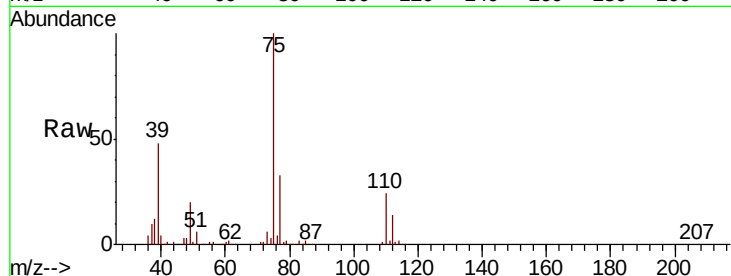
VSTD00518

Tot Ion: 75 Resp: 138542

Ion Ratio Lower Upper

75 100

77 32.9 22.3 41.5



#40

4-Methyl-2-pentanone

Concen: 51.769 ug/L

RT: 7.46 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

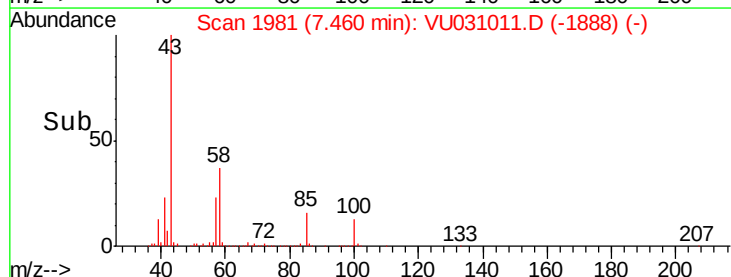
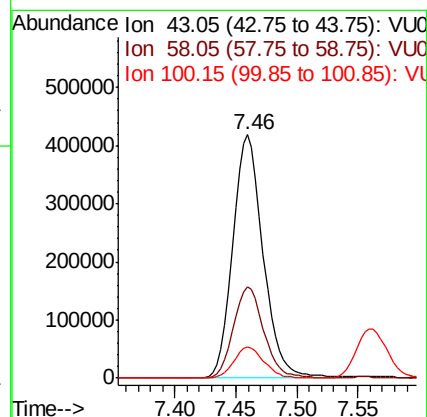
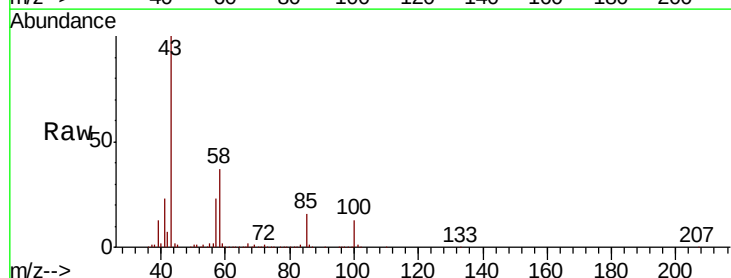
Tgt Ion: 43 Resp: 727047

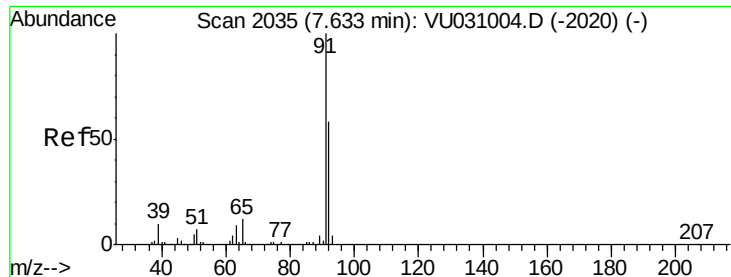
Ion Ratio Lower Upper

43 100

58 37.7 29.4 44.2

100 12.8 9.2 13.8





#42

Toluene

Concen: 5.048 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

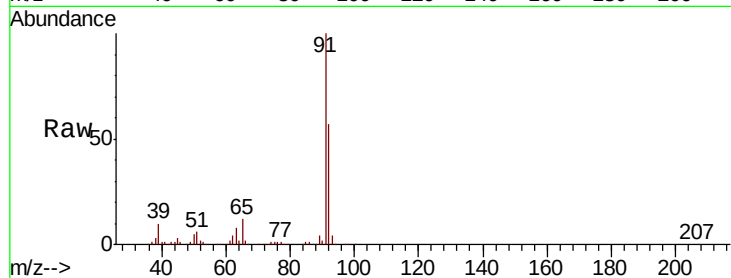
VSTD00518

Tot Ion: 91 Resp: 414161

Ion Ratio Lower Upper

91 100

92 57.4 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU031011.D (-1942) (-)

Ion 92.15 (91.85 to 92.85): VU031011.D (-1942) (-)

7.63

250000

200000

150000

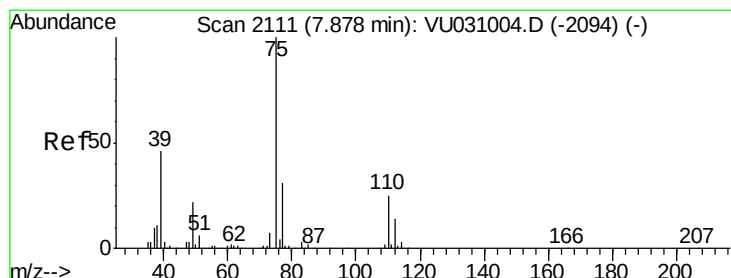
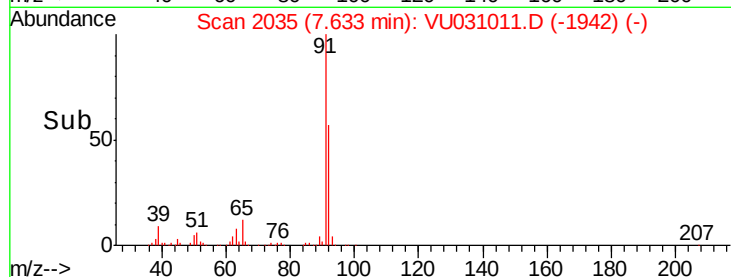
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.954 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU031011.D

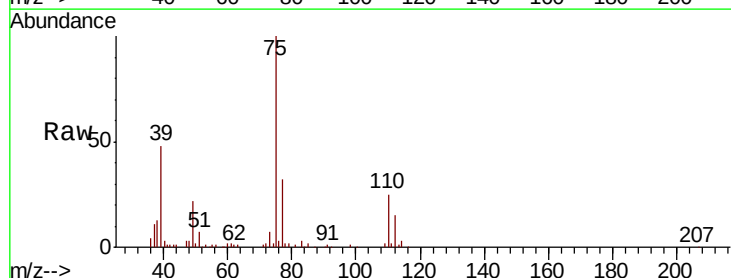
Acq: 10 Apr 2019 15:07

Tgt Ion: 75 Resp: 115448

Ion Ratio Lower Upper

75 100

77 31.8 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU031011.D (-2018) (-)

Ion 77.05 (76.75 to 77.75): VU031011.D (-2018) (-)

7.88

60000

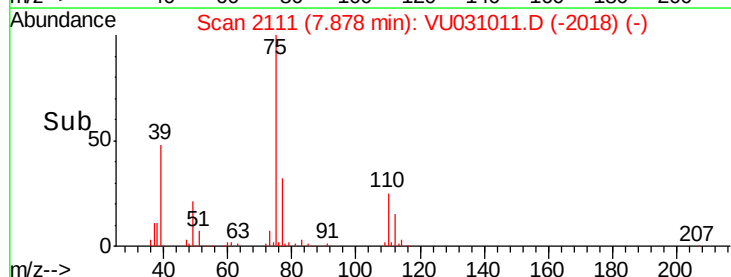
40000

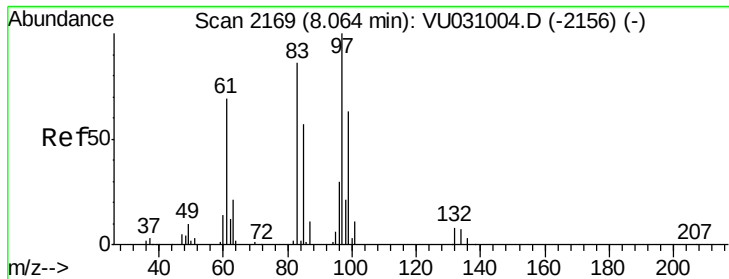
20000

0

7.80 7.90 8.00

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.416 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

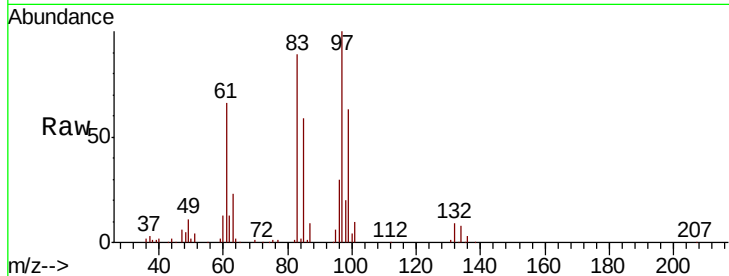
MSVOA_U

ClientSampleId :

VSTD00518

Tot Ion: 97 Resp: 72709

Ion	Ratio	Lower	Upper
97	100		
99	63.3	45.3	84.1
83	88.8	66.5	123.5
85	59.0	41.2	76.4



Abundance

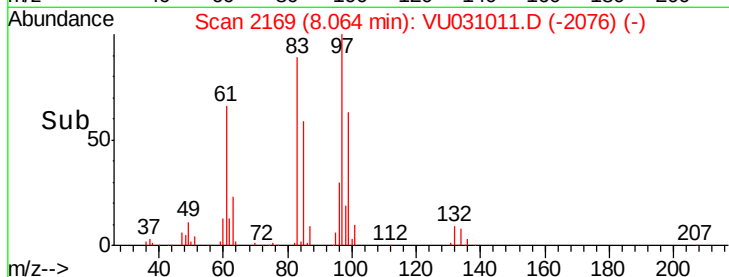
Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

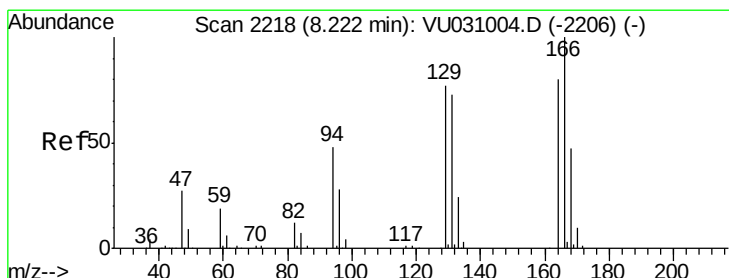
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Time-->



Time-->



#47

Tetrachloroethene

Concen: 5.338 ug/L

RT: 8.22 min Scan# 2218

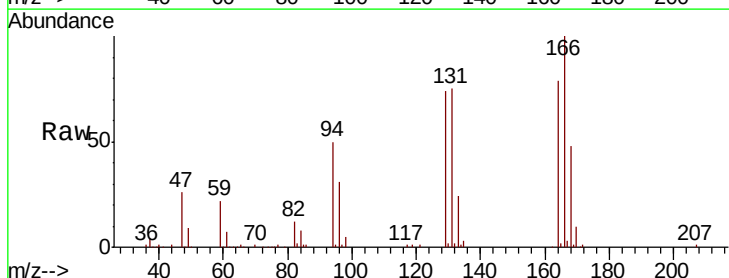
Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Tgt Ion:164 Resp: 76679

Ion	Ratio	Lower	Upper
164	100		
129	94.0	70.1	130.1
131	94.8	67.8	125.8
166	126.5	87.9	163.3



Abundance

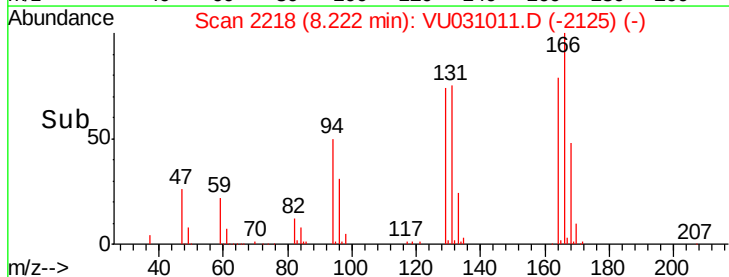
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

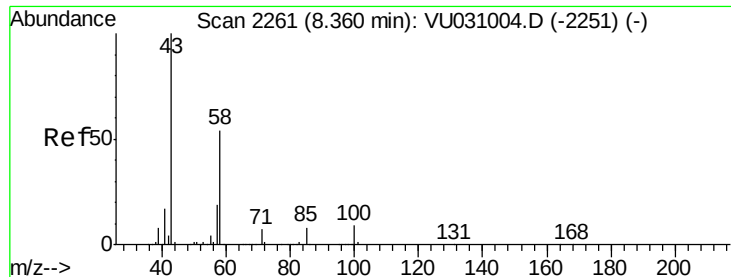
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

Time-->



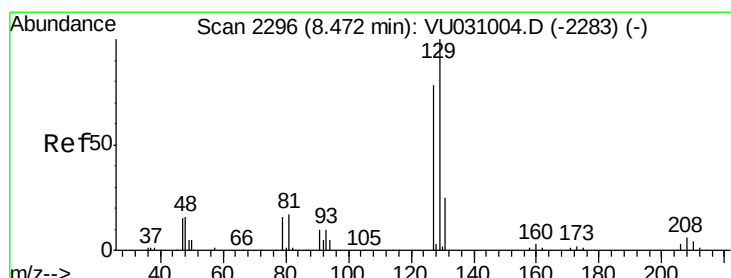
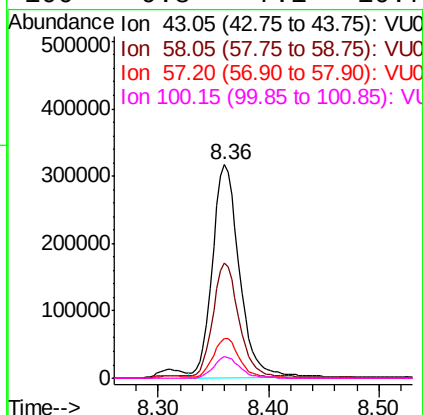
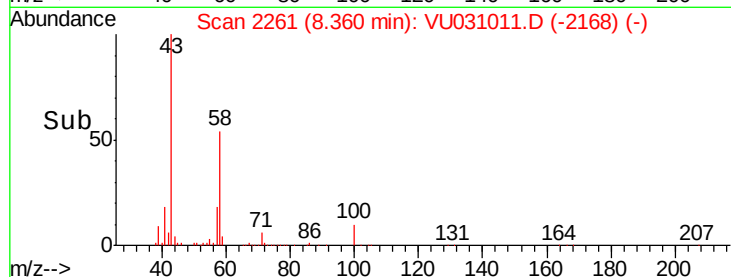
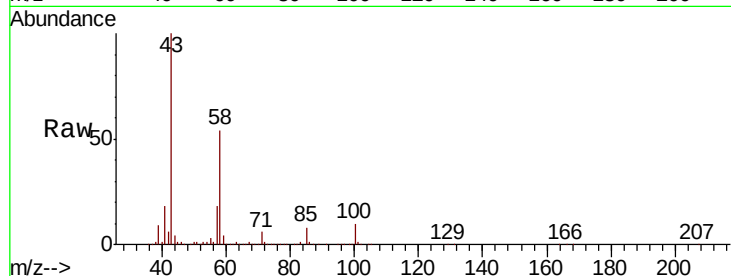
Time-->



#48
2-Hexanone
Concen: 54.808 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

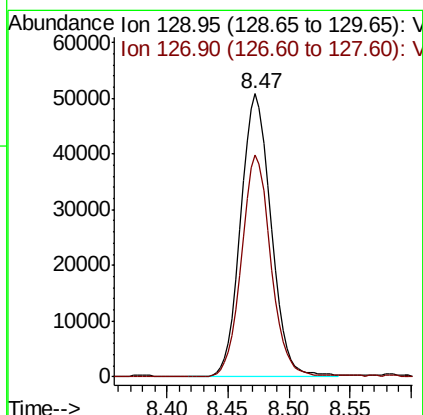
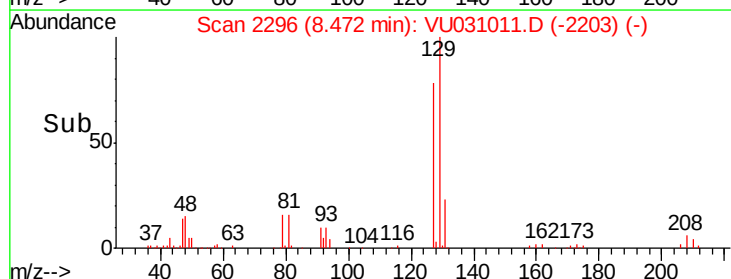
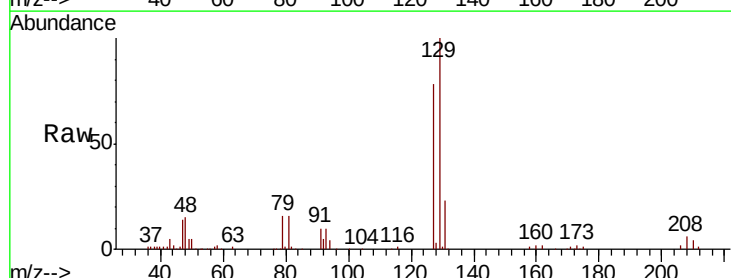
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

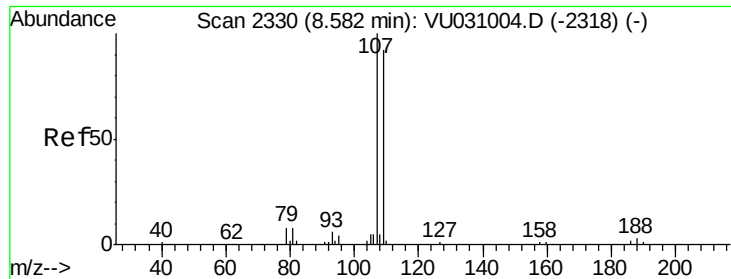
Tot Ion: 43 Resp: 533330
Ion Ratio Lower Upper
43 100
58 53.1 42.5 63.7
57 18.1 13.9 20.9
100 9.8 7.1 10.7



#49
Dibromochloromethane
Concen: 5.441 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion: 129 Resp: 87336
Ion Ratio Lower Upper
129 100
127 78.3 51.1 94.9

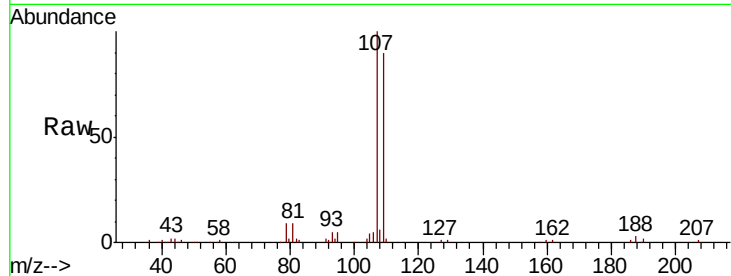




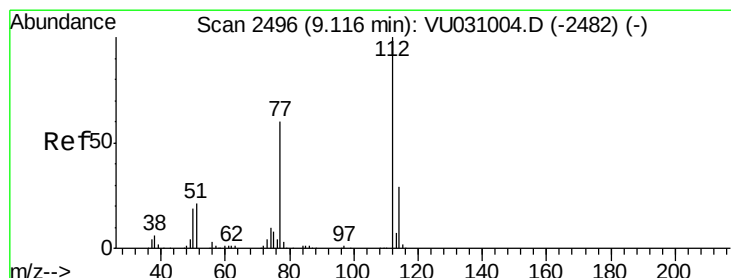
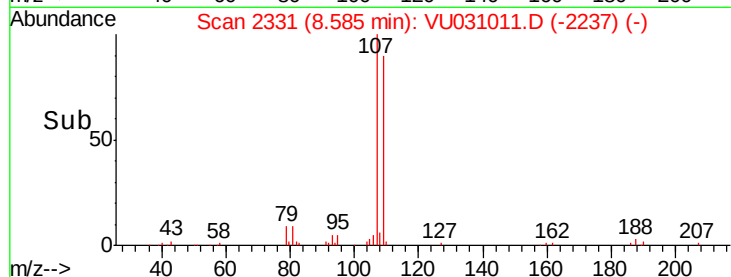
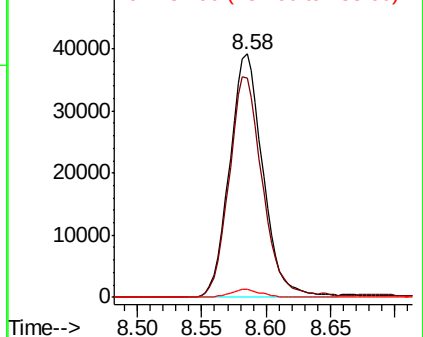
#50
1,2-Dibromoethane
Concen: 5.633 ug/L
RT: 8.58 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

Tot Ion:107 Resp: 70481
Ion Ratio Lower Upper
107 100
109 89.8 65.6 121.8
188 3.3 2.9 4.3

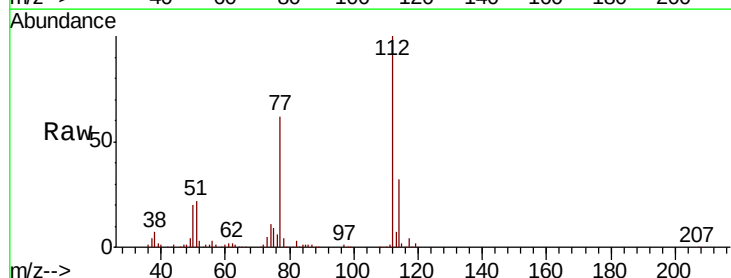


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

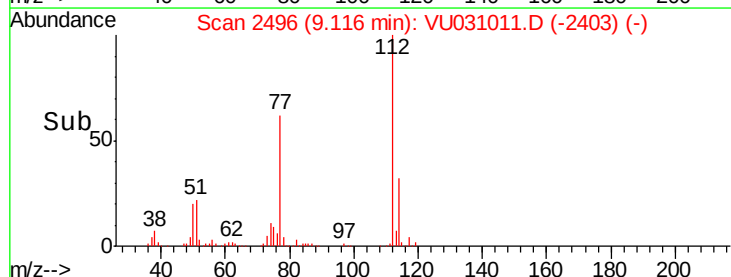
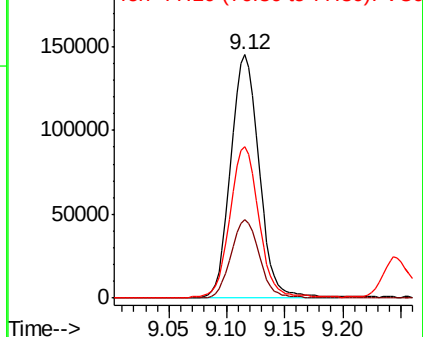


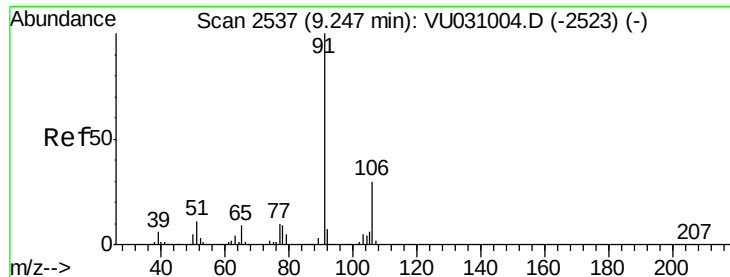
#51
Chlorobenzene
Concen: 4.860 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. -0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion:112 Resp: 245878
Ion Ratio Lower Upper
112 100
114 32.1 22.3 41.5
77 62.0 51.0 76.6



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





#52

Ethylbenzene

Concen: 4.718 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

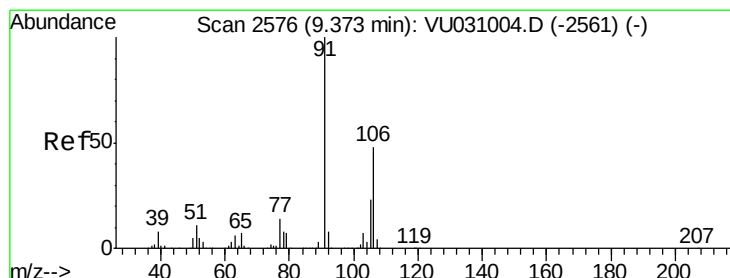
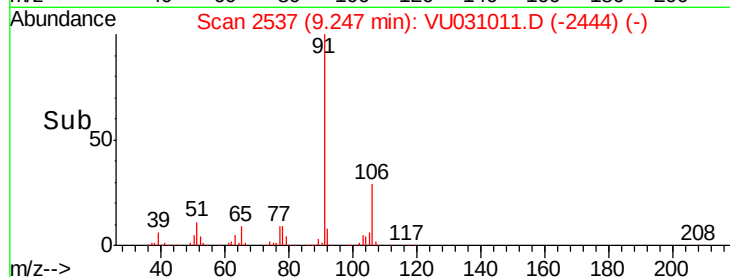
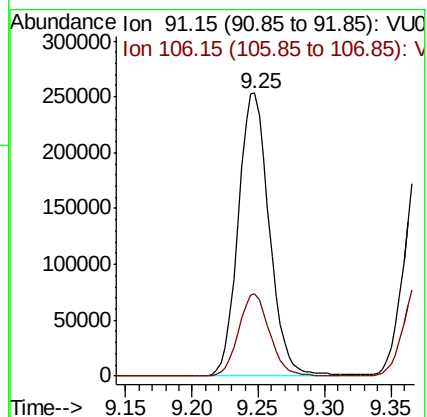
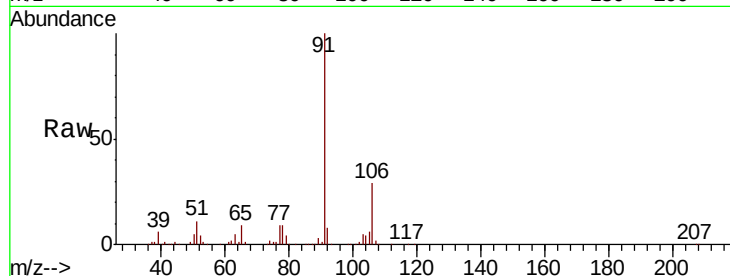
VSTD00518

Tot Ion: 91 Resp: 412805

Ion Ratio Lower Upper

91 100

106 29.3 20.2 37.4



#53

m,p-Xylene

Concen: 4.990 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU031011.D

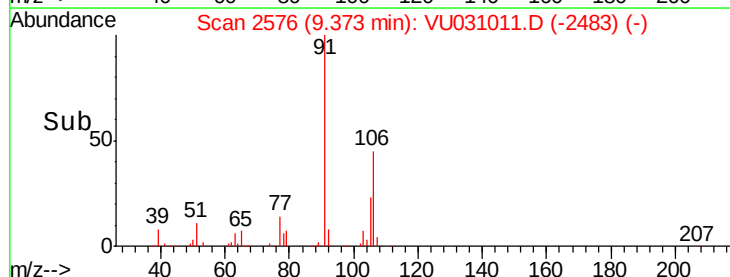
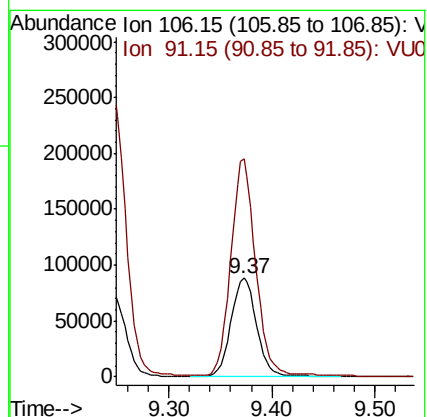
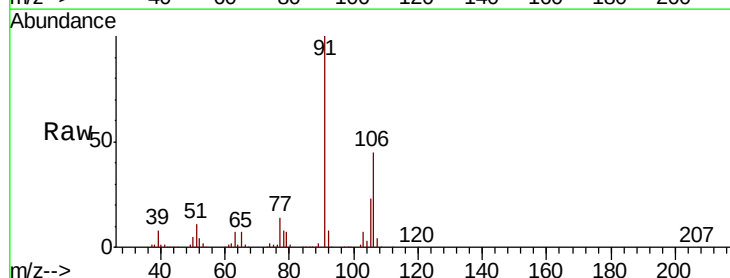
Acq: 10 Apr 2019 15:07

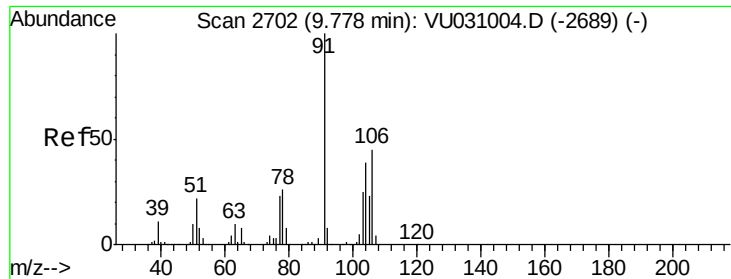
Tgt Ion: 106 Resp: 152530

Ion Ratio Lower Upper

106 100

91 220.6 147.4 273.8

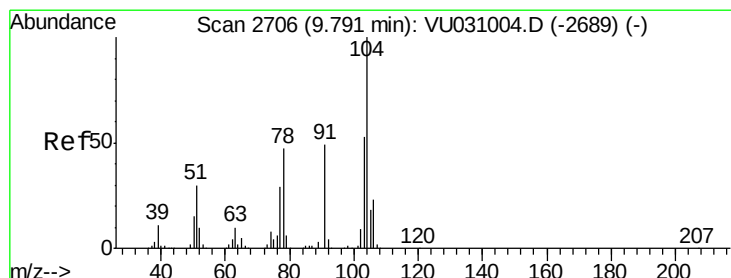
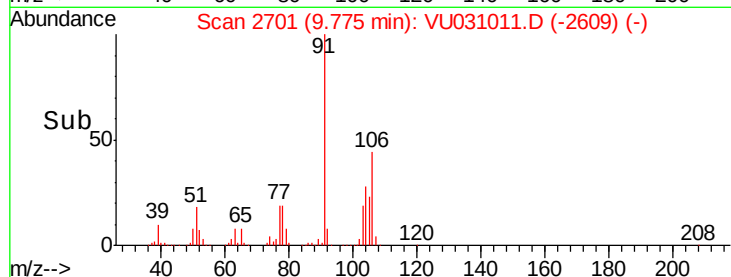
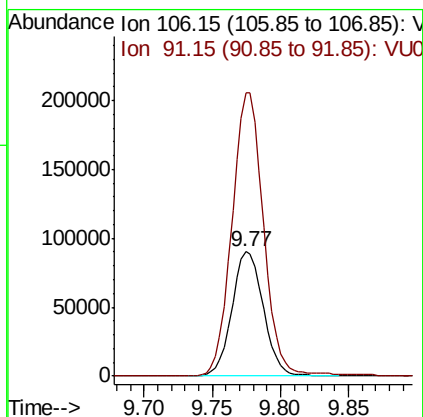
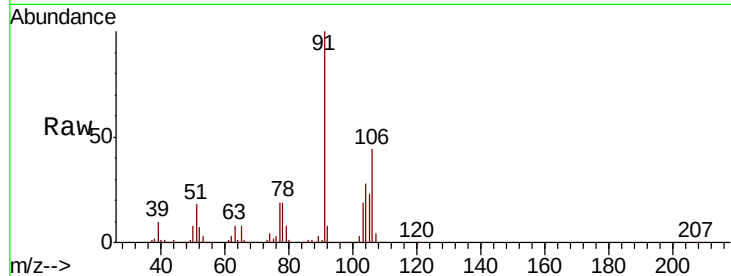




#54
o-Xylene
Concen: 4.841 ug/L
RT: 9.77 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

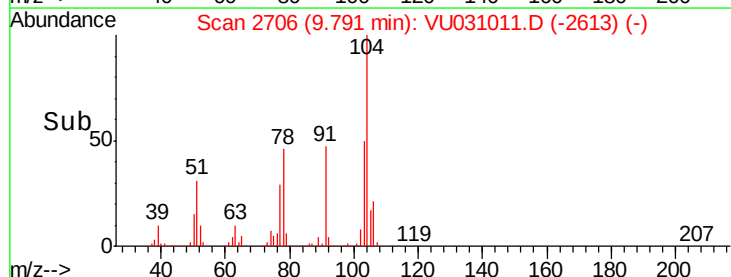
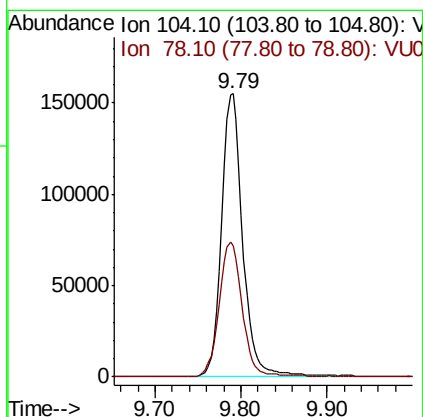
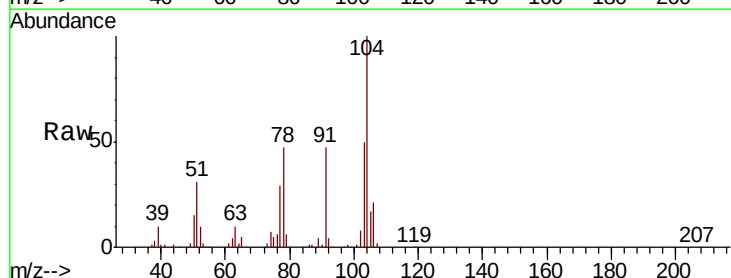
Instrument :
MSVOA_U
ClientSampleId :
VSTD00518

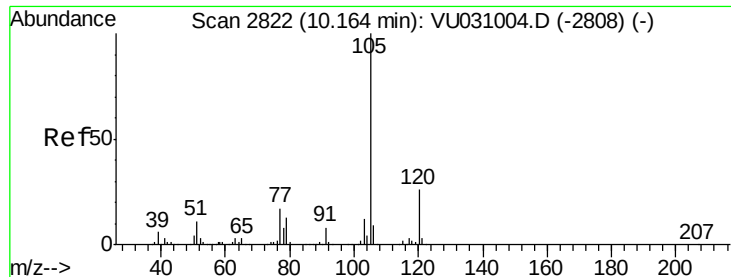
Tot Ion:106 Resp: 145088
Ion Ratio Lower Upper
106 100
91 228.0 161.3 299.7



#55
Styrene
Concen: 5.268 ug/L
RT: 9.79 min Scan# 2706
Delta R.T. -0.00 min
Lab File: VU031011.D
Acq: 10 Apr 2019 15:07

Tgt Ion:104 Resp: 266395
Ion Ratio Lower Upper
104 100
78 46.5 34.4 63.8





#56

Isopropylbenzene

Concen: 4.842 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

VSTD00518

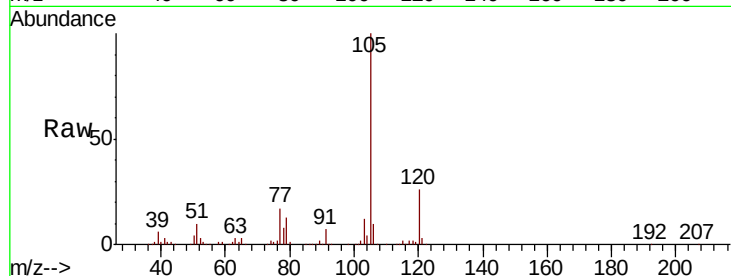
Tot Ion:105 Resp: 387715

Ion Ratio Lower Upper

105 100

120 25.5 20.5 30.7

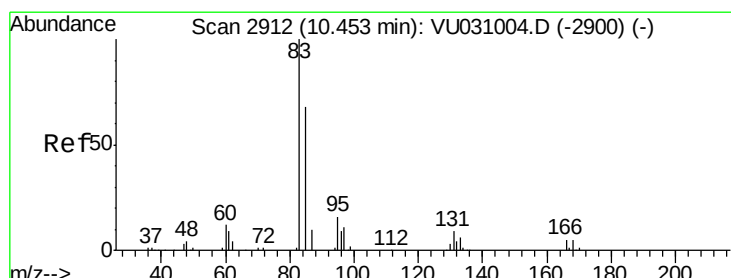
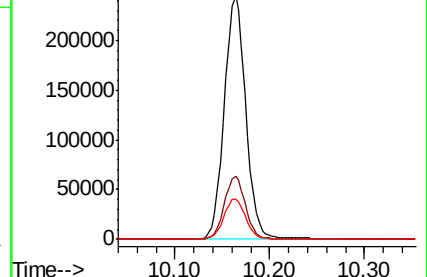
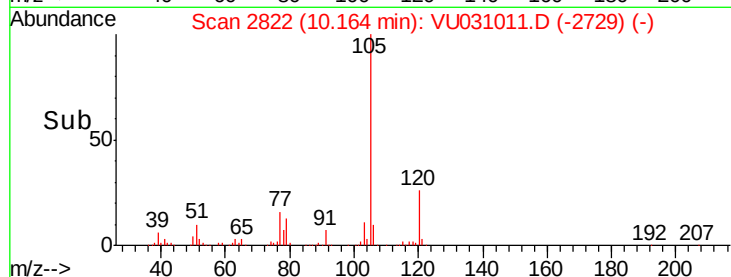
77 16.9 13.8 20.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.317 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

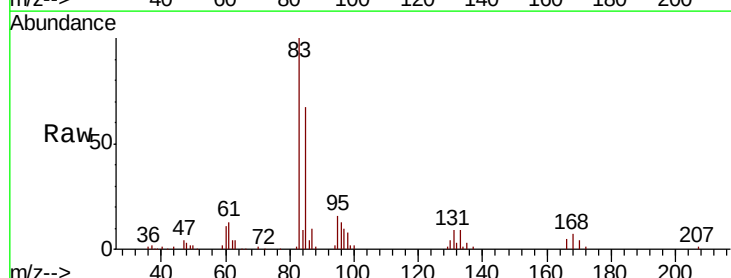
Tgt Ion: 83 Resp: 94885

Ion Ratio Lower Upper

83 100

85 67.2 44.4 82.5

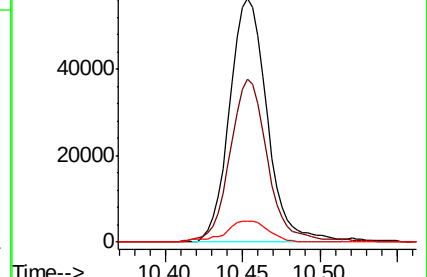
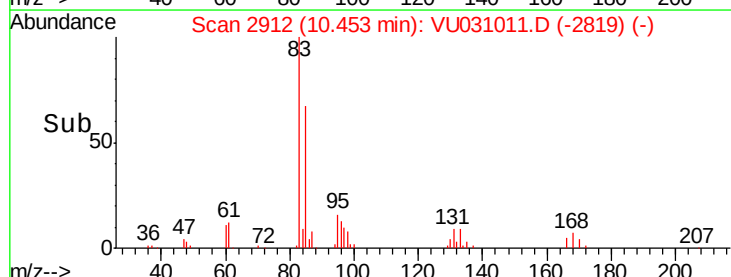
131 8.7 7.4 11.2

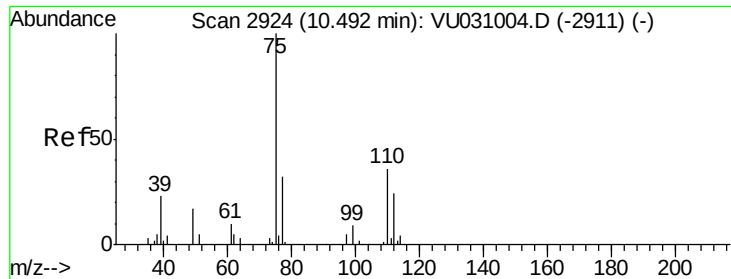


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.427 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampleId :

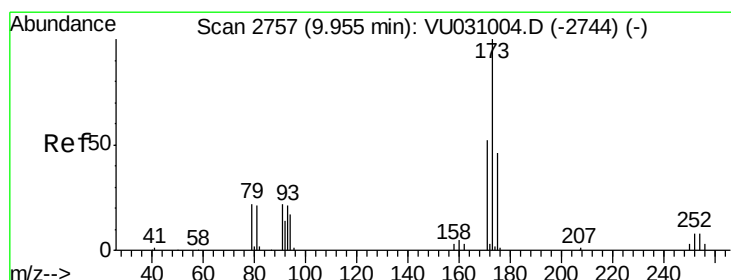
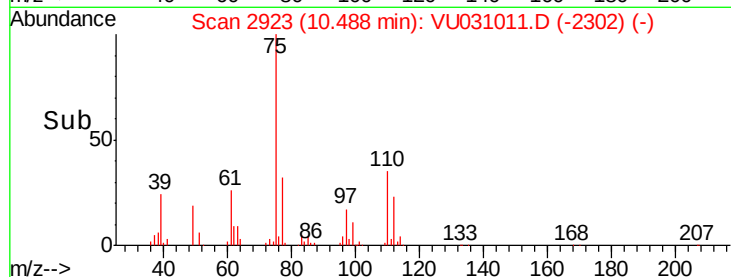
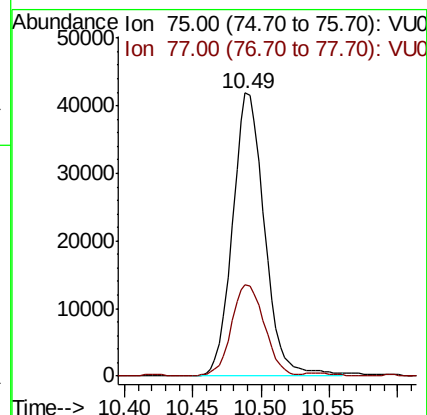
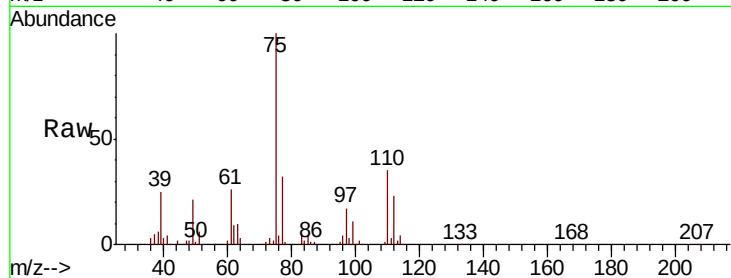
VSTD00518

Tot Ion: 75 Resp: 68274

Ion Ratio Lower Upper

75 100

77 33.6 25.6 38.4



#61

Bromoform

Concen: 5.807 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

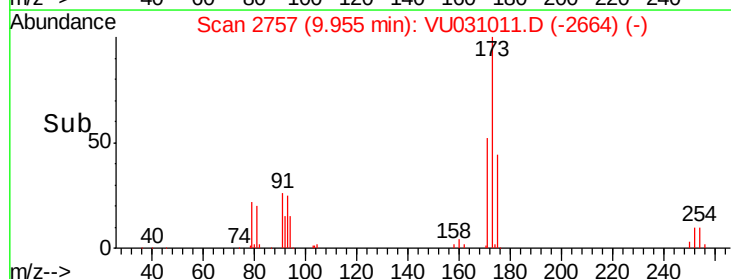
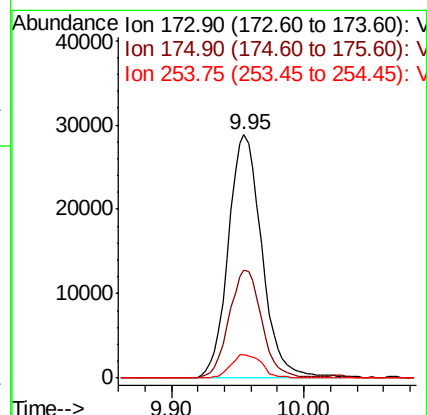
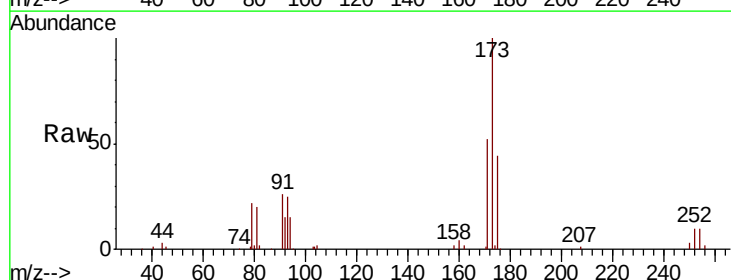
Tgt Ion: 173 Resp: 50840

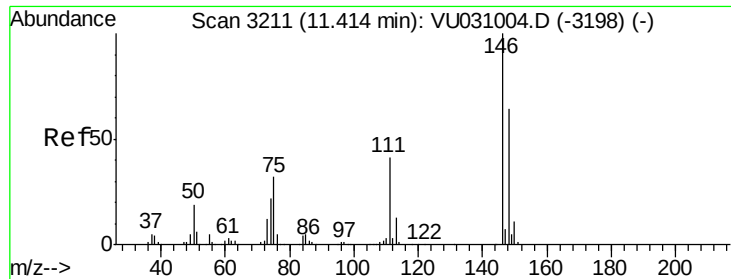
Ion Ratio Lower Upper

173 100

175 43.3 38.6 58.0

254 8.8 7.0 10.4

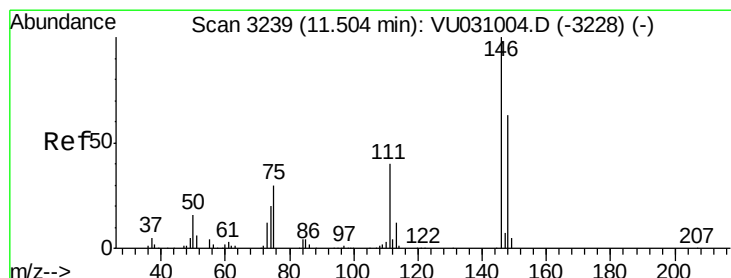
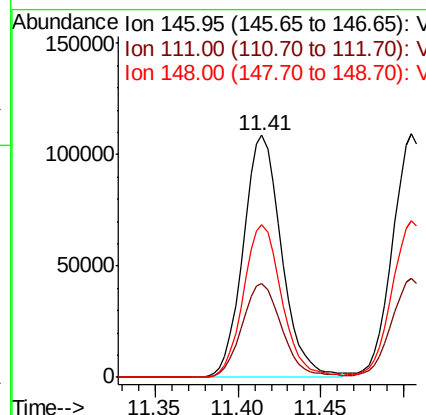
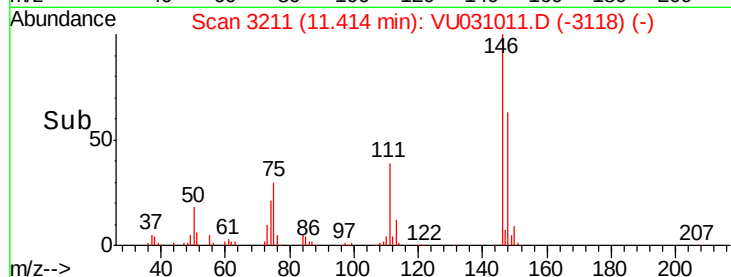
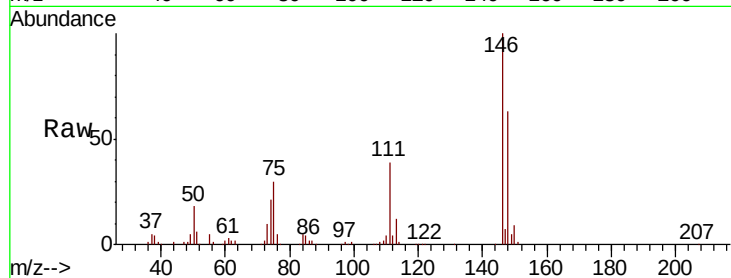




#62
 1,3-Dichlorobenzene
 Concen: 4.806 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. -0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

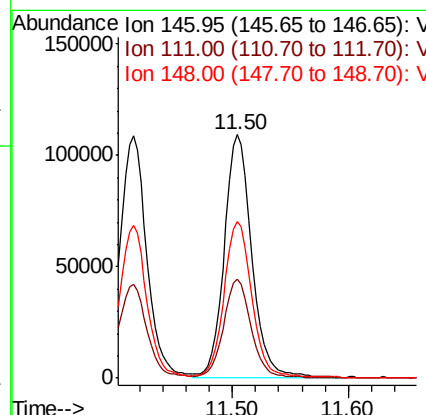
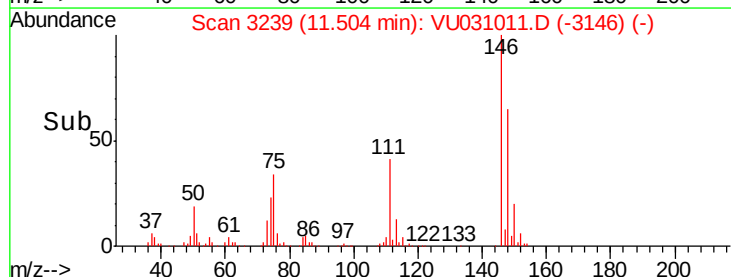
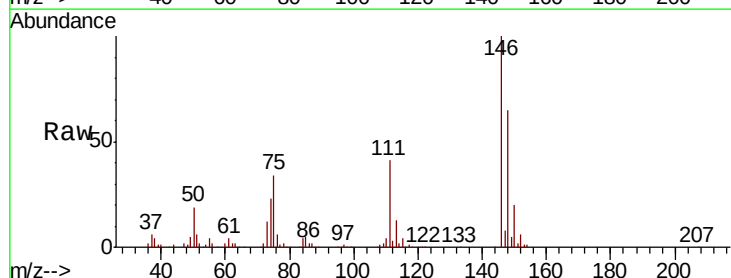
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

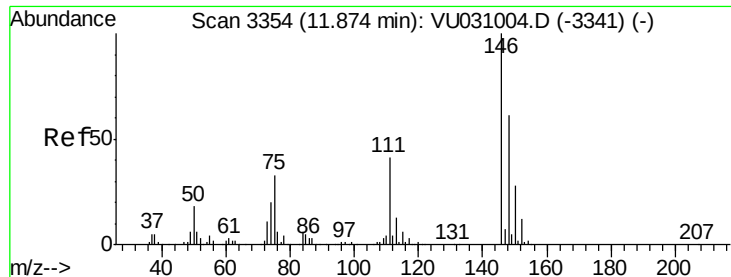
Tot Ion:146 Resp: 175324
 Ion Ratio Lower Upper
 146 100
 111 38.7 28.9 53.7
 148 63.1 44.4 82.4



#63
 1,4-Dichlorobenzene
 Concen: 4.673 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion:146 Resp: 178694
 Ion Ratio Lower Upper
 146 100
 111 40.7 27.9 51.9
 148 64.5 45.4 84.4

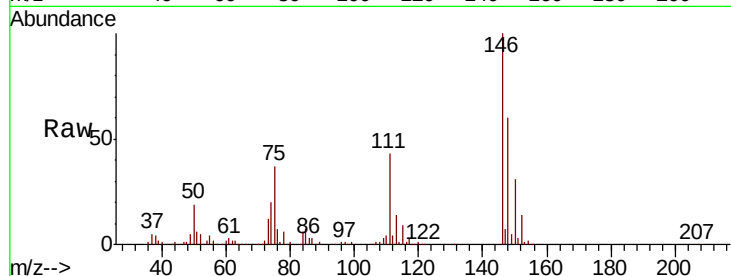




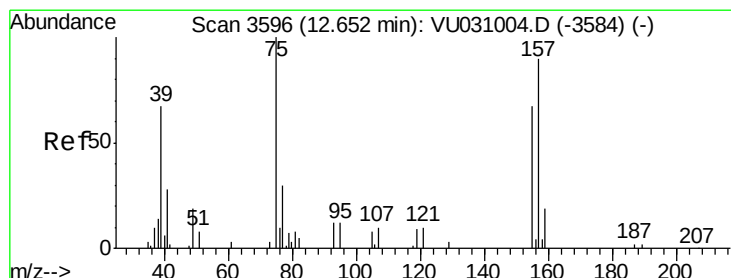
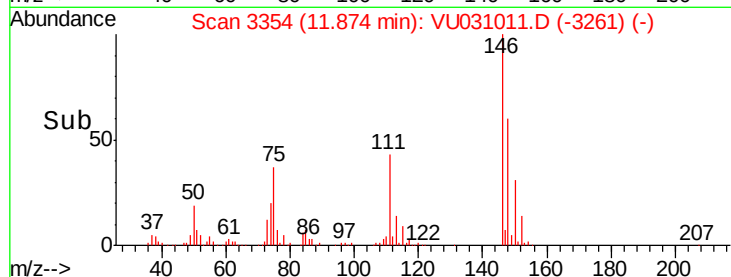
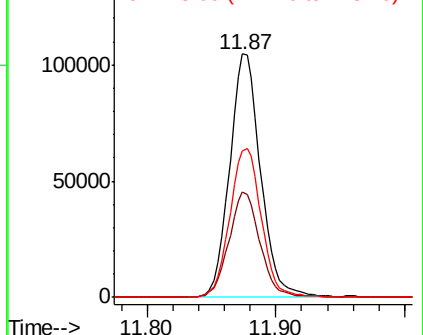
#65
 1,2-Dichlorobenzene
 Concen: 4.919 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion:146 Resp: 174592
 Ion Ratio Lower Upper
 146 100
 111 43.1 37.1 55.7
 148 60.0 51.8 77.8

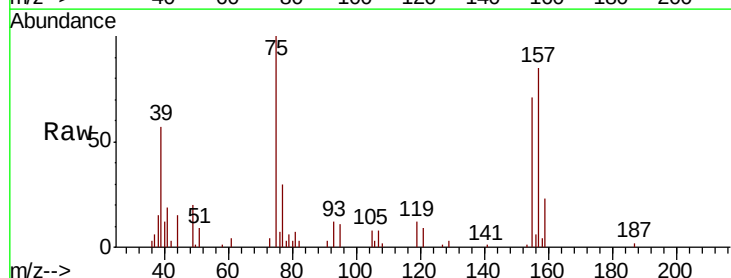


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

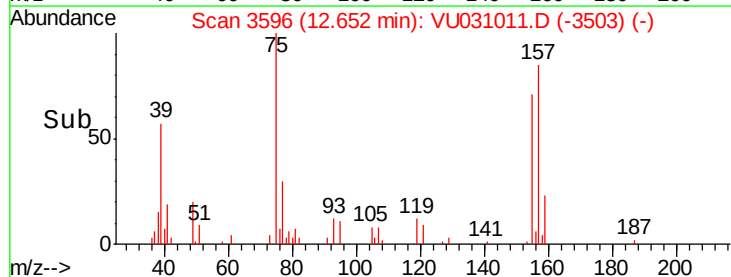
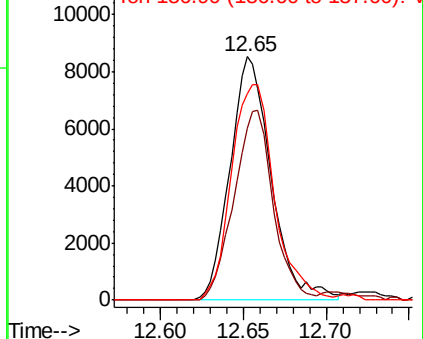


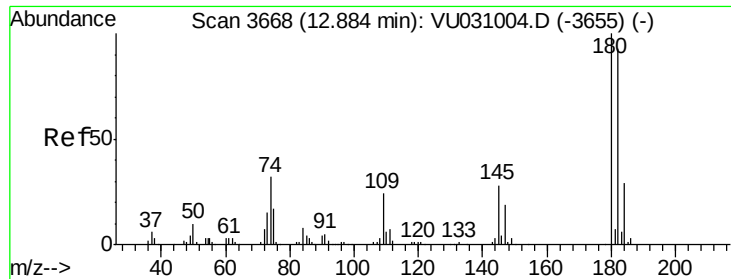
#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.354 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion: 75 Resp: 14703
 Ion Ratio Lower Upper
 75 100
 155 70.6 57.7 86.5
 157 84.7 76.9 115.3



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

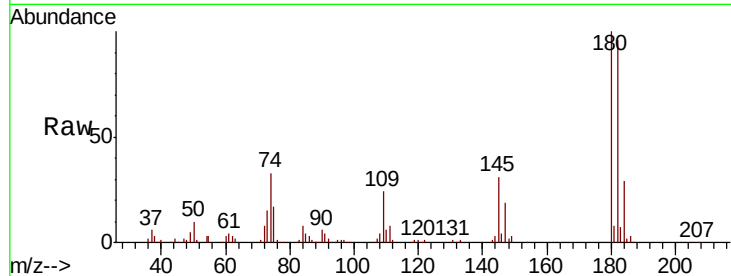




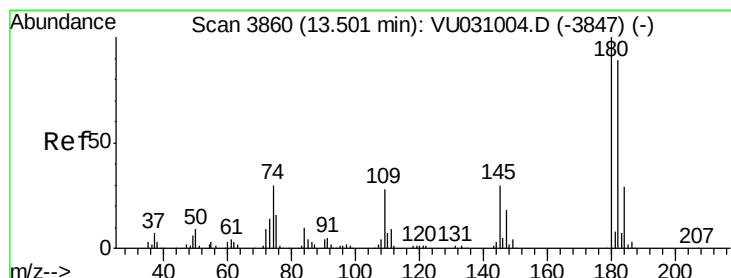
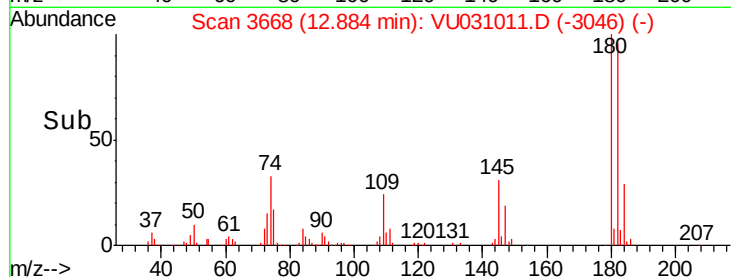
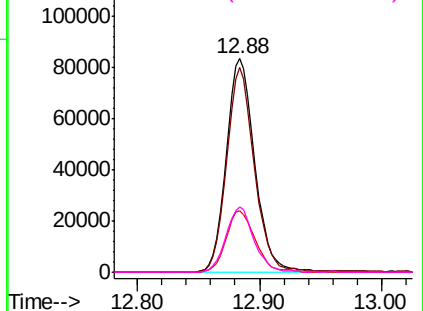
#67
 1,3,5-Trichlorobenzene
 Concen: 5.017 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00518

Tot Ion:180 Resp: 136558
 Ion Ratio Lower Upper
 180 100
 182 92.8 76.2 114.2
 184 29.3 24.2 36.2
 145 30.0 24.1 36.1

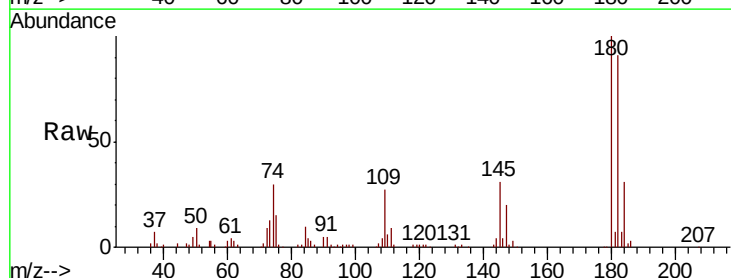


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

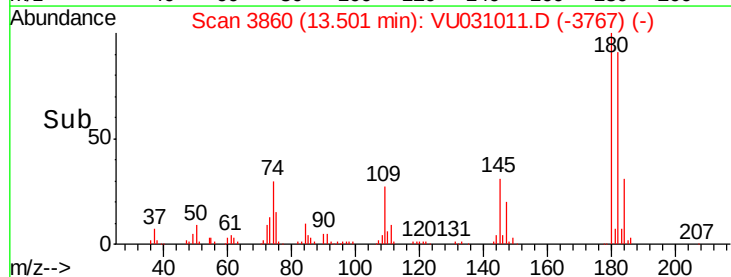
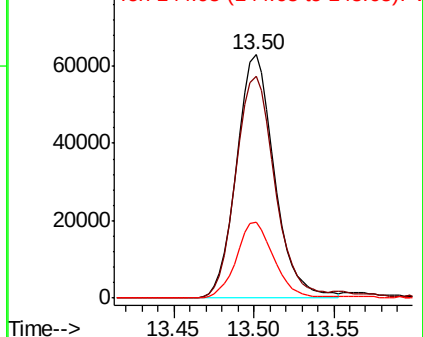


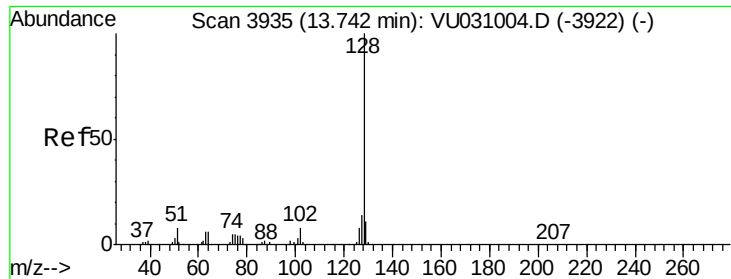
#68
 1,2,4-trichlorobenzene
 Concen: 4.822 ug/L
 RT: 13.50 min Scan# 3860
 Delta R.T. -0.00 min
 Lab File: VU031011.D
 Acq: 10 Apr 2019 15:07

Tgt Ion:180 Resp: 101368
 Ion Ratio Lower Upper
 180 100
 182 94.1 74.6 111.8
 145 31.2 23.6 35.4



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





#69

Naphthalene

Concen: 4.710 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

Instrument :

MSVOA_U

ClientSampled :

VSTD00518

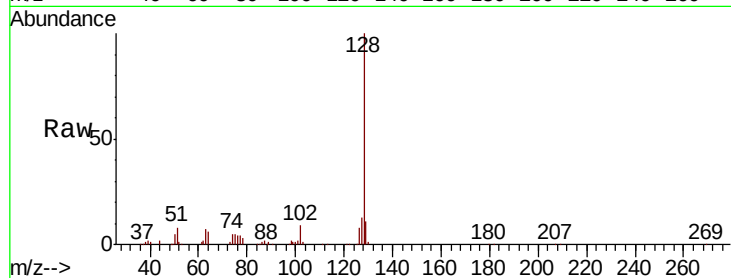
Tot Ion:128 Resp: 159004

Ion Ratio Lower Upper

128 100

129 10.1 8.3 12.5

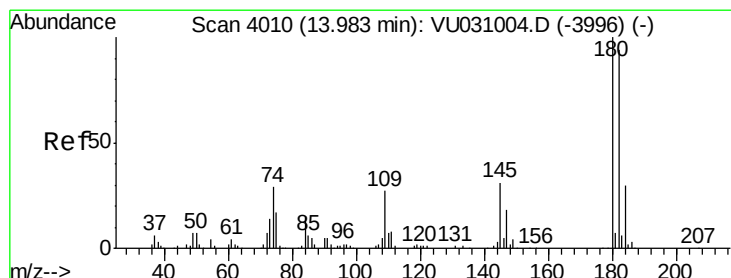
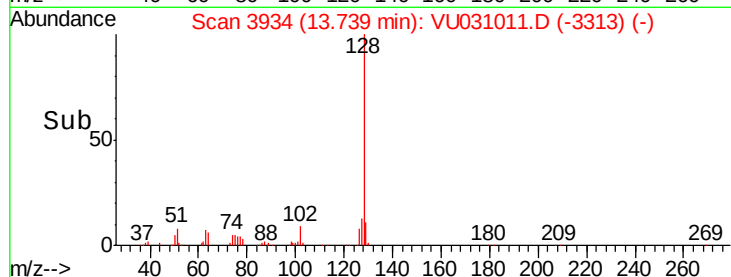
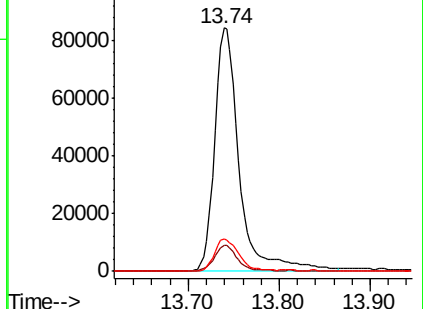
127 13.4 10.5 15.7



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: 5.209 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU031011.D

Acq: 10 Apr 2019 15:07

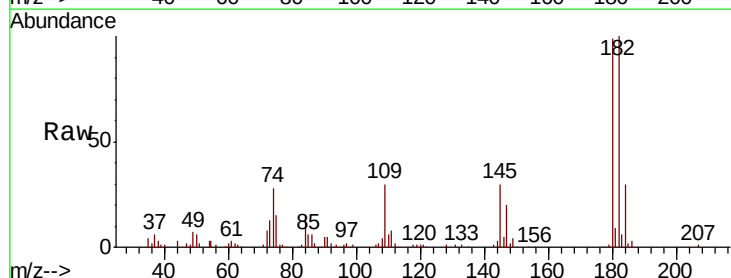
Tgt Ion:180 Resp: 102040

Ion Ratio Lower Upper

180 100

182 95.8 76.8 115.2

145 32.0 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

