

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081618\
 Data File : VU026172.D
 Acq On : 16 Aug 2018 10:10
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

Quant Time: Aug 16 16:07:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081518WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	287632	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	278226	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	140603	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	71905	42.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.14%
7) Chloroethane-d5	1.68	69	63386	45.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.32%
11) 1,1-Dichloroethene-d2	2.27	63	154489	46.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.16%
21) 2-Butanone-d5	4.18	46	128807	99.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.39%
24) Chloroform-d	4.65	84	187131	49.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.94%
26) 1,2-Dichloroethane-d4	5.31	65	119902	48.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.86%
32) Benzene-d6	5.34	84	353256	49.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.50%
36) 1,2-Dichloropropane-d6	6.33	67	114309	48.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.94%
41) Toluene-d8	7.57	98	339335	49.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.84%
43) trans-1,3-Dichloropropene-	7.85	79	56135	50.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.54%
47) 2-Hexanone-d5	8.31	63	97249	100.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.65%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	166017	50.02	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.04%
64) 1,2-Dichlorobenzene-d4	11.86	152	142460	48.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.20	85	115870	50.881	ug/L	100
3) Chloromethane	1.33	50	103593	49.953	ug/L	99
5) Vinyl chloride	1.40	62	102735	49.614	ug/L	98
6) Bromomethane	1.63	94	57426	53.823	ug/L	98
8) Chloroethane	1.70	64	61832	49.873	ug/L	98
9) Trichlorofluoromethane	1.89	101	151687	49.611	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	85734	51.757	ug/L	98
12) 1,1-Dichloroethene	2.28	96	76279	50.180	ug/L	98
13) Acetone	2.32	43	120294	101.428	ug/L	100
14) Carbon disulfide	2.48	76	257339	48.821	ug/L	99
15) Methyl Acetate	2.62	43	105960	51.502	ug/L	98
16) Methylene chloride	2.70	84	100466	49.336	ug/L	96
17) trans-1,2-Dichloroethene	2.99	96	89830	49.817	ug/L	98
18) Methyl tert-butyl Ether	3.00	73	293617	51.298	ug/L	98
19) 1,1-Dichloroethane	3.45	63	176041	50.711	ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	101819	50.362	ug/L	98
22) 2-Butanone	4.26	43	157614	106.670	ug/L	99

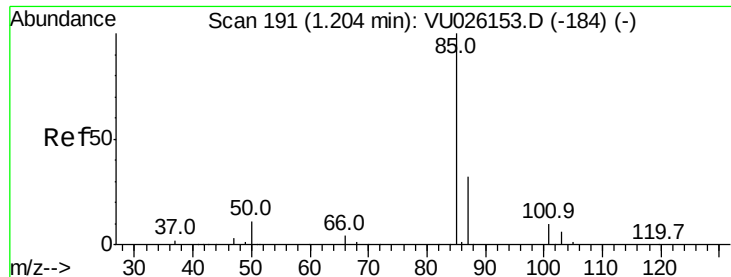
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU081618\
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 Quant Title : VOC Analysis
 QLast Update : Thu Aug 16 04:40:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	56510	51.708	ug/L	95
25) Chloroform	4.68	83	187141	51.350	ug/L	98
27) 1,2-Dichloroethane	5.41	62	148023	50.236	ug/L	100
29) Cyclohexane	5.00	56	143332	51.558	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	164896	49.604	ug/L	100
31) Carbon tetrachloride	5.14	117	153801	51.068	ug/L	99
33) Benzene	5.39	78	385416	51.159	ug/L	100
34) Trichloroethene	6.19	95	99588	50.743	ug/L	98
35) Methylcyclohexane	6.42	83	155163	52.667	ug/L	98
37) 1,2-Dichloropropane	6.44	63	108624	51.627	ug/L	100
38) Bromodichloromethane	6.76	83	142188	51.041	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	157052	50.283	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	268672	102.938	ug/L	99
42) Toluene	7.64	91	418004	52.245	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	155046	51.519	ug/L	99
45) 1,1,2-Trichloroethane	8.07	97	101137	50.697	ug/L	97
46) Tetrachloroethene	8.23	164	86387	51.038	ug/L	97
48) 2-Hexanone	8.36	43	222714	108.905	ug/L	99
49) Dibromochloromethane	8.48	129	123110	51.239	ug/L	98
50) 1,2-Dibromoethane	8.59	107	108423	52.341	ug/L	99
51) Chlorobenzene	9.12	112	278604	50.953	ug/L	98
52) Ethylbenzene	9.25	91	457930	52.543	ug/L	100
53) m,p-Xylene	9.38	106	176048	52.418	ug/L	100
54) o-xylene	9.78	106	173630	51.809	ug/L	100
55) Styrene	9.80	104	300050	53.773	ug/L	98
56) Isopropylbenzene	10.17	105	456400	53.044	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	168218	50.493	ug/L	99
59) 1,2,3-Trichloropropane	10.50	75	133251	51.410	ug/L	98
61) Bromoform	9.96	173	92897	50.534	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	211508	50.198	ug/L	98
63) 1,4-Dichlorobenzene	11.51	146	218793	50.351	ug/L	100
65) 1,2-Dichlorobenzene	11.88	146	232574	51.648	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.66	75	36721	51.432	ug/L	96
67) 1,3,5-Trichlorobenzene	12.89	180	167416	53.804	ug/L	100
68) 1,2,4-trichlorobenzene	13.51	180	130588	55.397	ug/L	100
69) Naphthalene	13.75	128	378435	56.410	ug/L	100
70) 1,2,3-Trichlorobenzene	13.99	180	144907	57.328	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.881 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

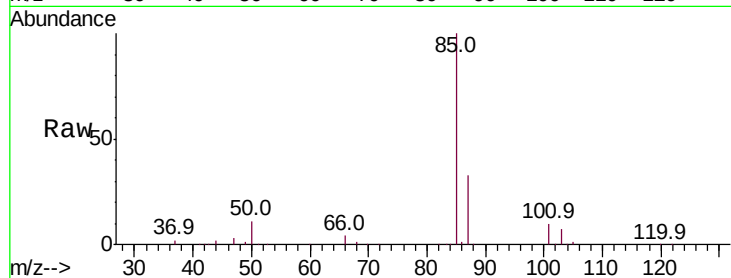
VSTD05068

Tot Ion: 85 Resp: 115870

Ion Ratio Lower Upper

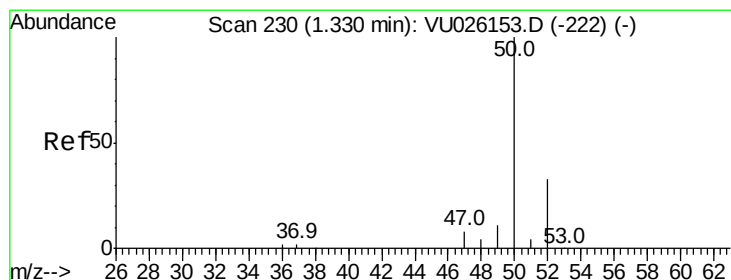
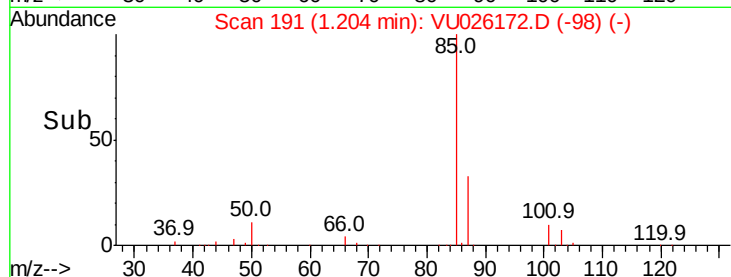
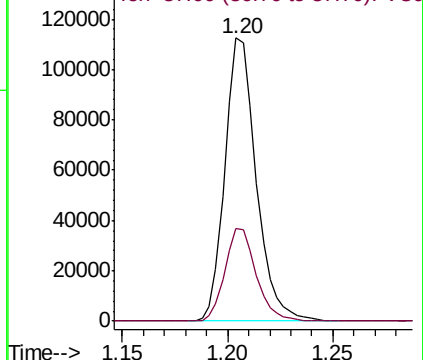
85 100

87 32.7 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 49.953 ug/L

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU026172.D

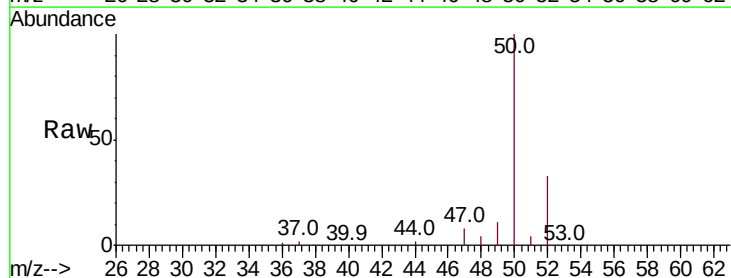
Acq: 16 Aug 2018 10:10

Tgt Ion: 50 Resp: 103593

Ion Ratio Lower Upper

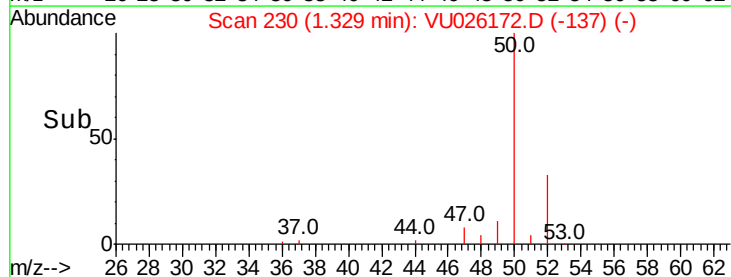
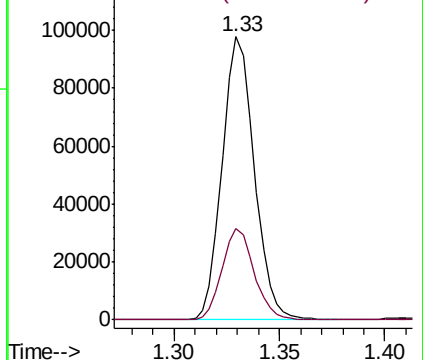
50 100

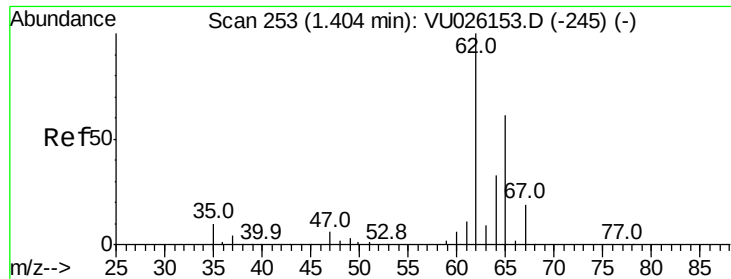
52 32.5 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

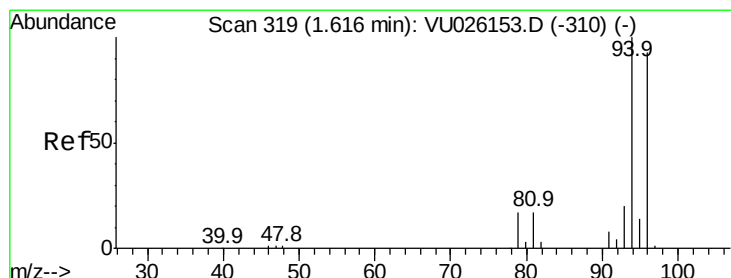
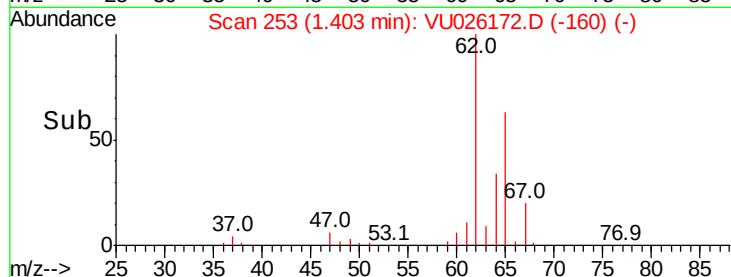
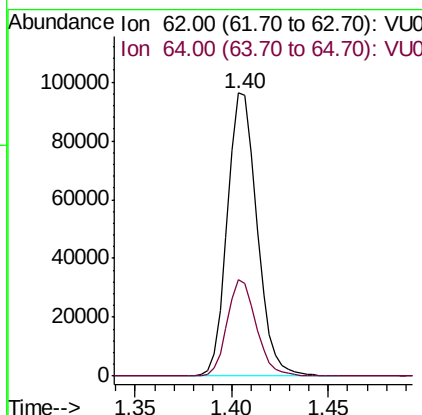
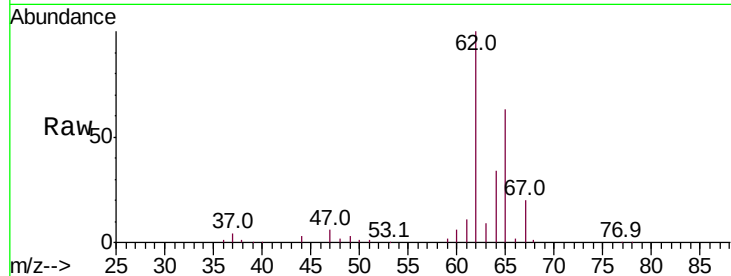




#5
 Vinyl chloride
 Concen: 49.614 ug/L
 RT: 1.40 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

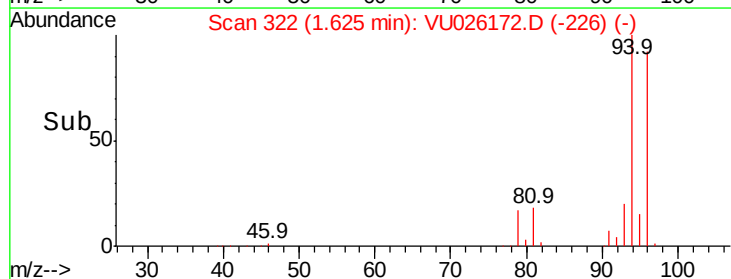
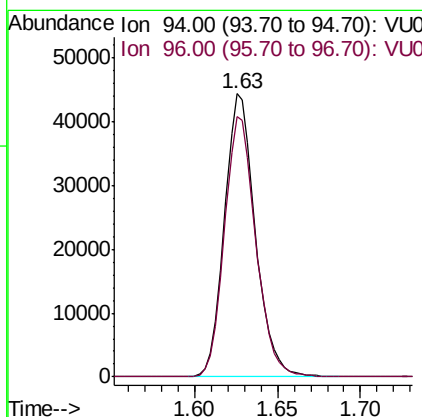
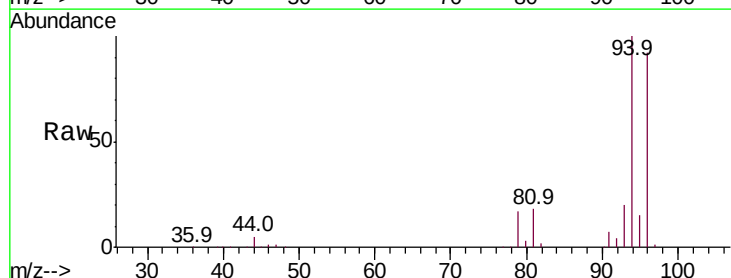
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

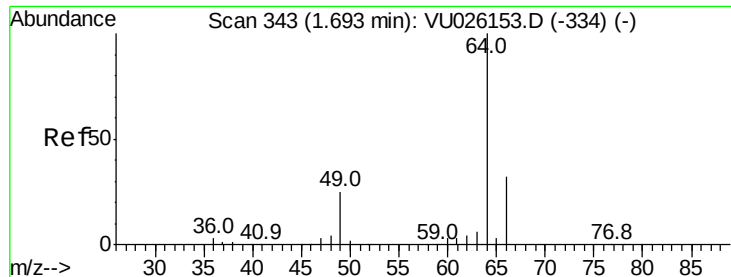
Tot Ion: 62 Resp: 102735
 Ion Ratio Lower Upper
 62 100
 64 33.9 23.0 42.8



#6
 Bromomethane
 Concen: 53.823 ug/L
 RT: 1.63 min Scan# 322
 Delta R.T. 0.01 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion: 94 Resp: 57426
 Ion Ratio Lower Upper
 94 100
 96 92.1 65.9 122.5





#8

Chloroethane

Concen: 49.873 ug/L

RT: 1.70 min Scan# 345

Delta R.T. 0.01 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

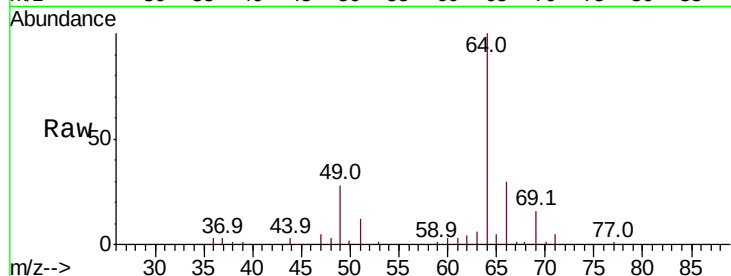
VSTD05068

Tot Ion: 64 Resp: 61832

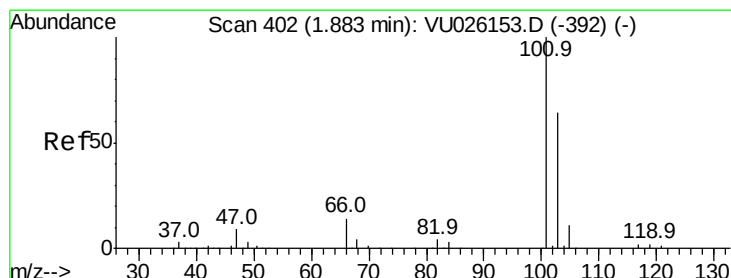
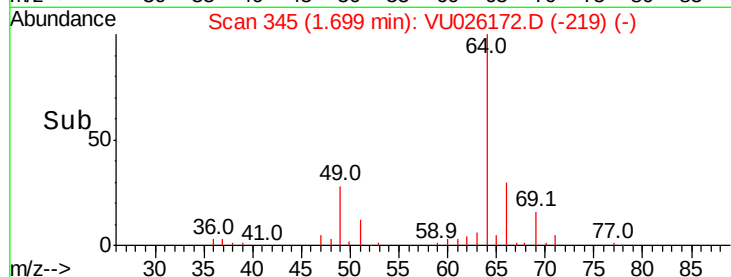
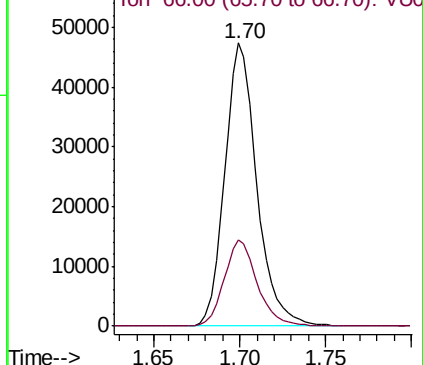
Ion Ratio Lower Upper

64 100

66 30.4 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VU026172.D (-219) (-)



#9

Trichlorofluoromethane

Concen: 49.611 ug/L

RT: 1.89 min Scan# 404

Delta R.T. 0.01 min

Lab File: VU026172.D

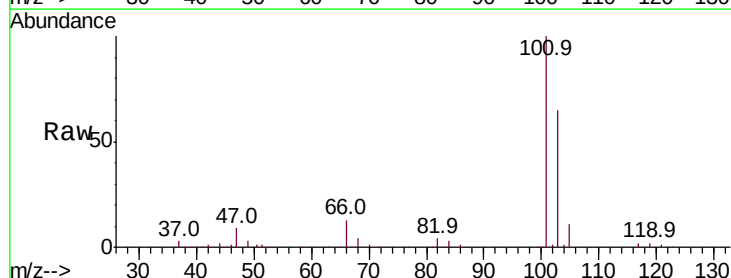
Acq: 16 Aug 2018 10:10

Tgt Ion: 101 Resp: 151687

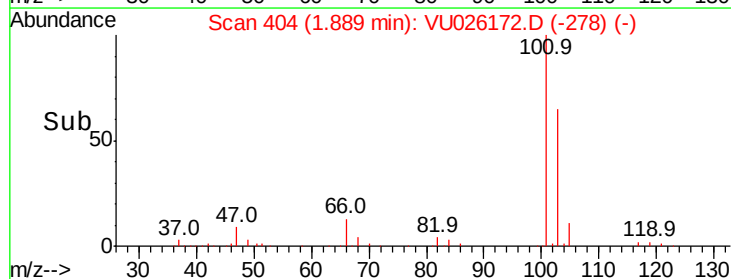
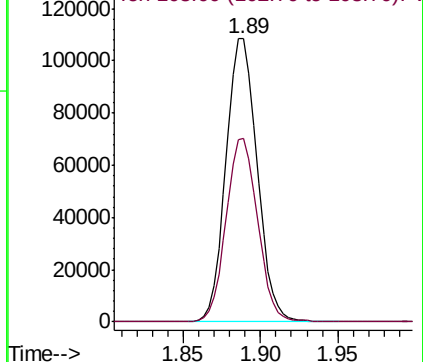
Ion Ratio Lower Upper

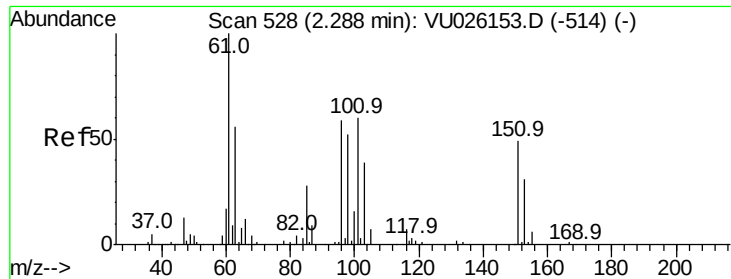
101 100

103 65.5 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VU026172.D (-278) (-)





#10

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

Concen: 51.757 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

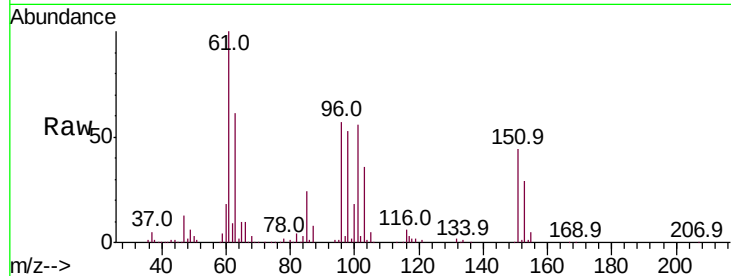
Tot Ion:101 Resp: 85734

Ion Ratio Lower Upper

101 100

85 44.0 36.6 55.0

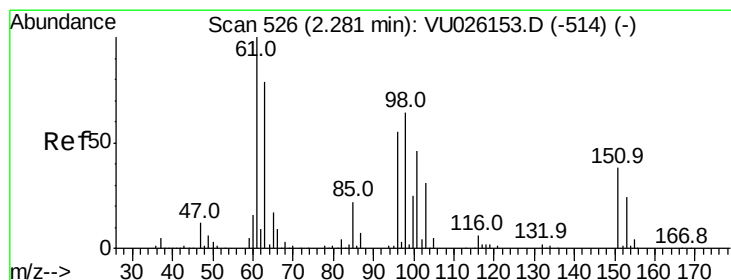
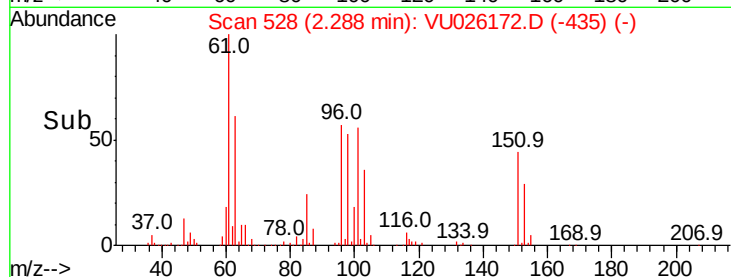
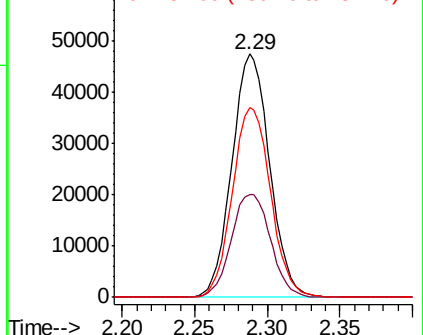
151 78.9 63.8 95.8



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: 50.180 ug/L

RT: 2.28 min Scan# 527

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

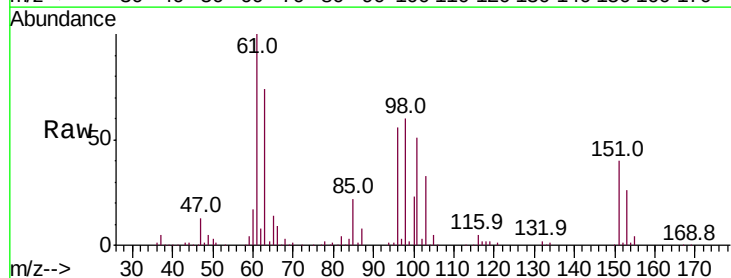
Tgt Ion: 96 Resp: 76279

Ion Ratio Lower Upper

96 100

61 179.7 126.8 235.4

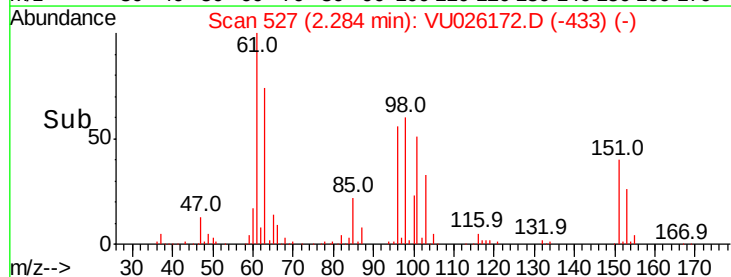
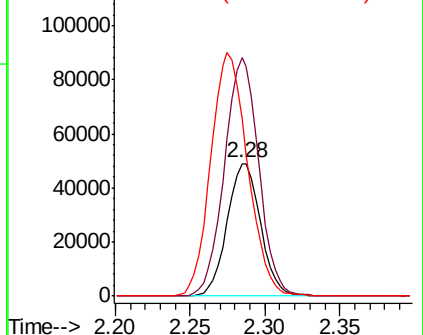
63 133.7 97.0 180.2

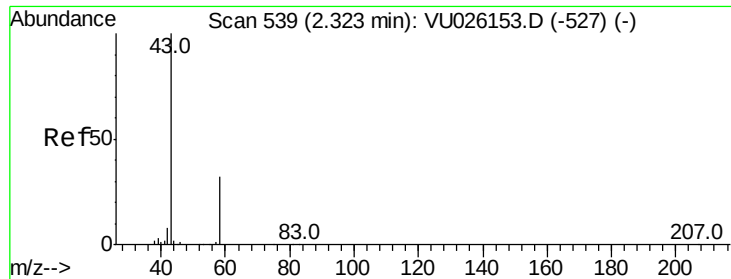


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 101.428 ug/L

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

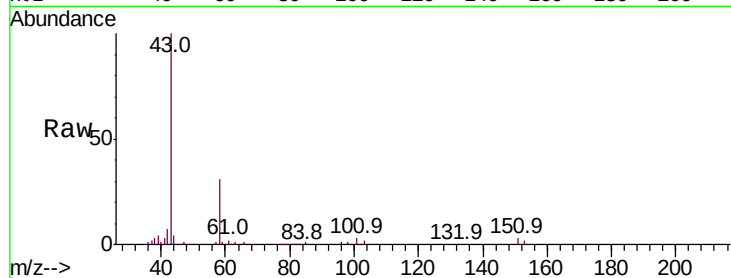
VSTD05068

Tot Ion: 43 Resp: 120294

Ion Ratio Lower Upper

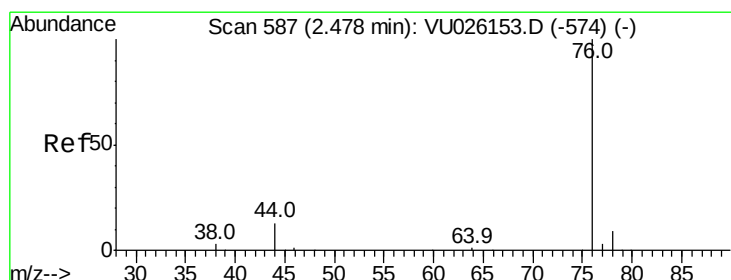
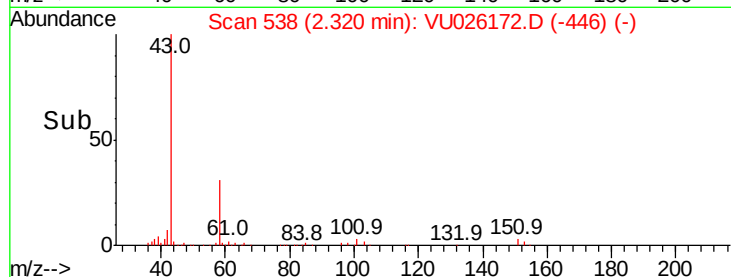
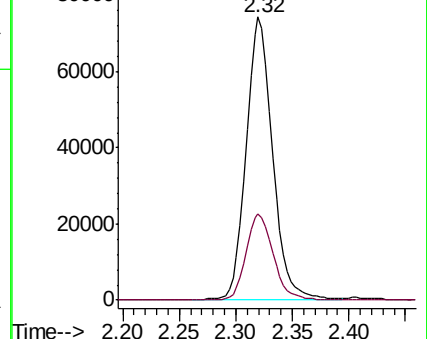
43 100

58 31.5 0.0 62.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 48.821 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026172.D

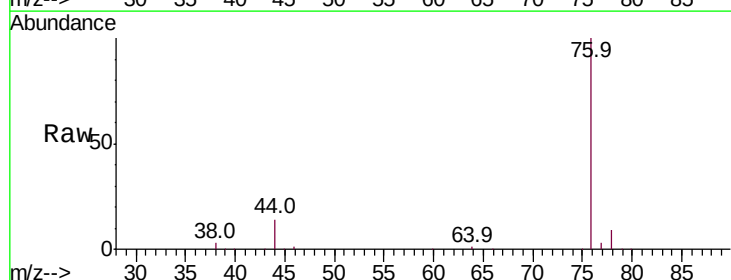
Acq: 16 Aug 2018 10:10

Tgt Ion: 76 Resp: 257339

Ion Ratio Lower Upper

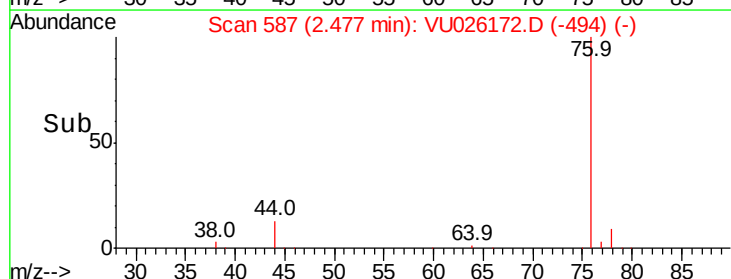
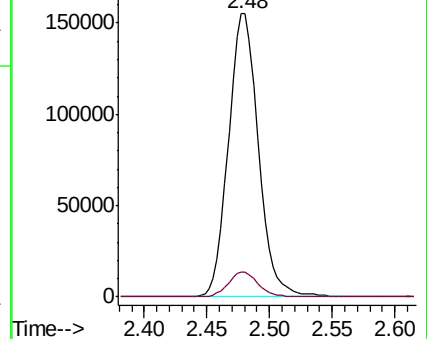
76 100

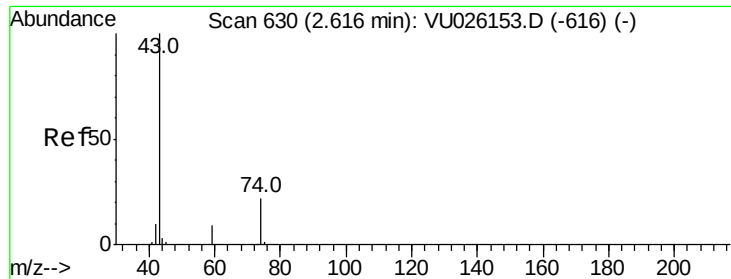
78 8.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 51.502 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

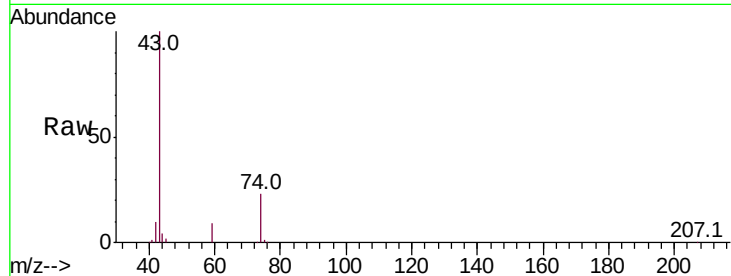
VSTD05068

Tot Ion: 43 Resp: 105960

Ion Ratio Lower Upper

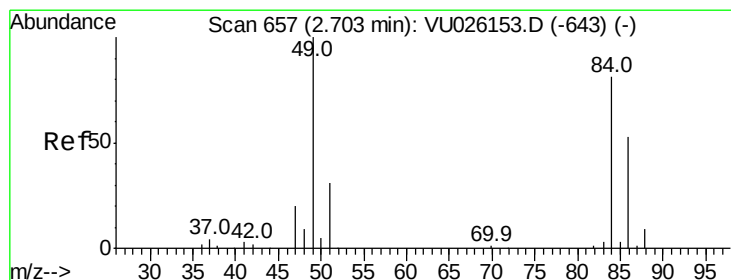
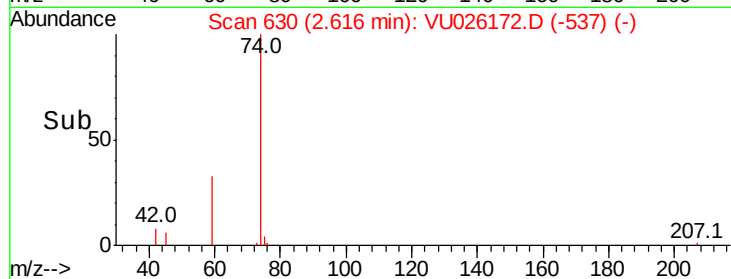
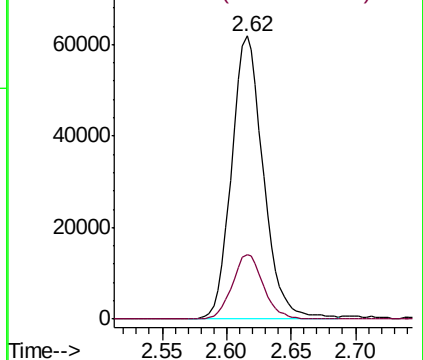
43 100

74 22.3 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 49.336 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

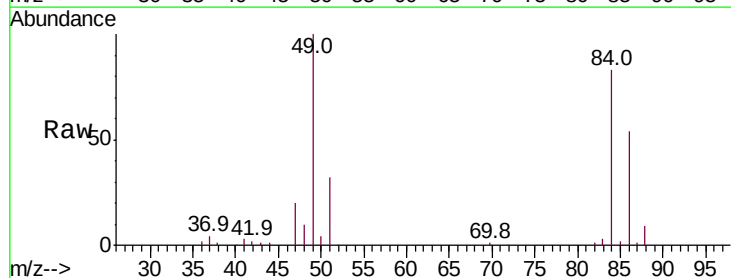
Tgt Ion: 84 Resp: 100466

Ion Ratio Lower Upper

84 100

86 65.6 44.0 81.6

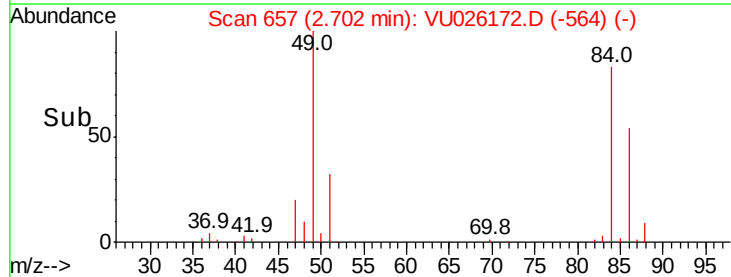
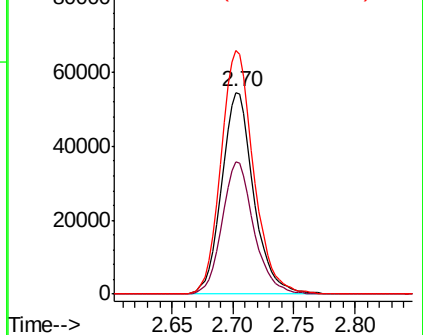
49 120.9 87.7 162.9

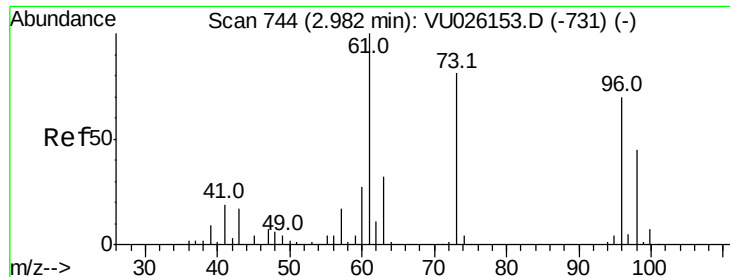


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 49.817 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

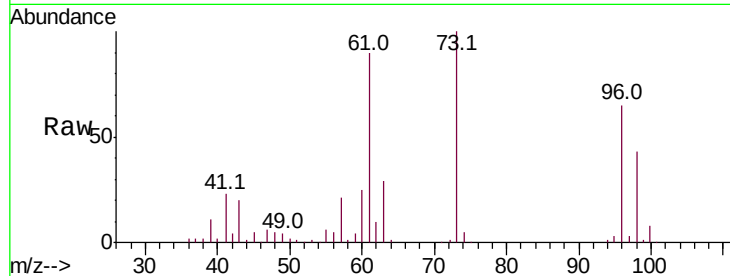
Tot Ion: 96 Resp: 89830

Ion Ratio Lower Upper

96 100

61 139.2 96.7 179.5

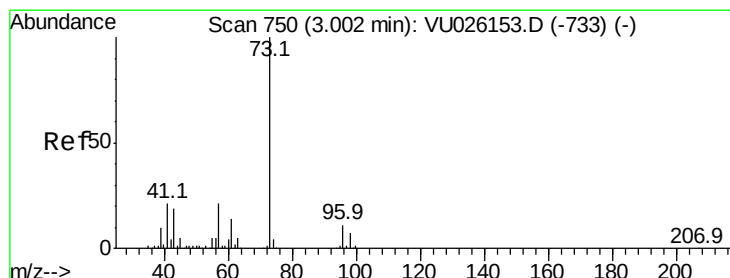
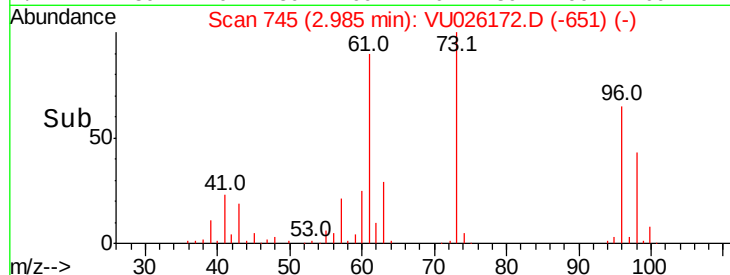
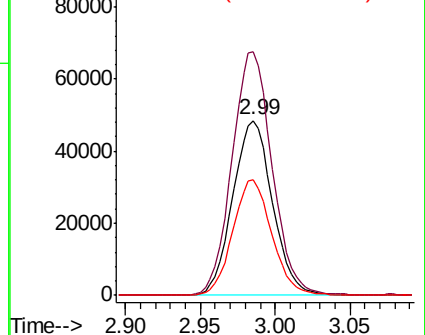
98 65.9 43.6 81.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 51.298 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

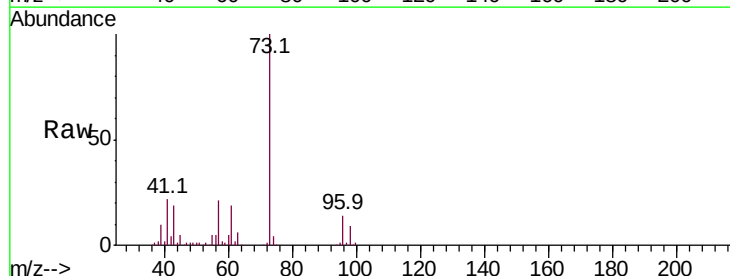
Tgt Ion: 73 Resp: 293617

Ion Ratio Lower Upper

73 100

43 19.6 16.2 24.4

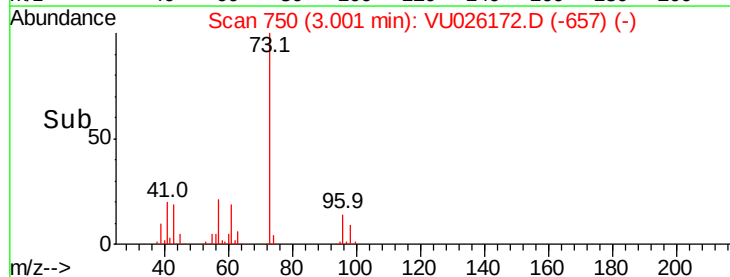
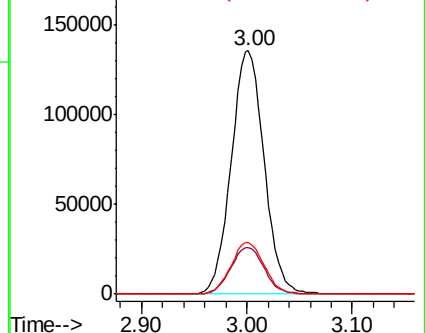
57 21.5 18.2 27.2

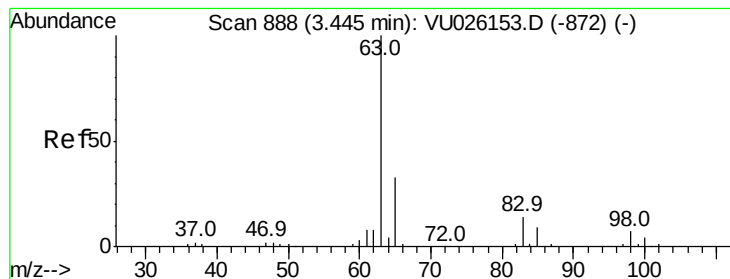


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 50.711 ug/L

RT: 3.45 min Scan# 889

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

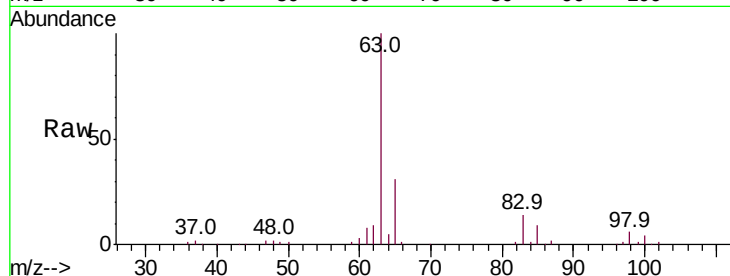
Tot Ion: 63 Resp: 176041

Ion Ratio Lower Upper

63 100

65 31.2 22.1 41.1

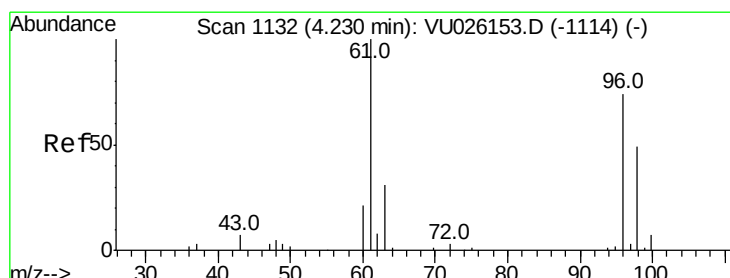
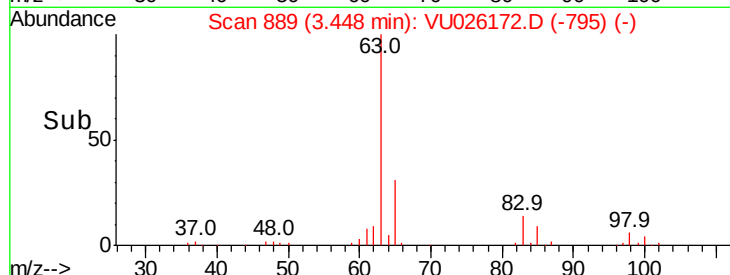
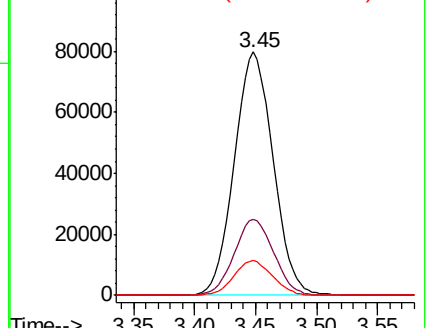
83 14.2 9.4 17.4



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 65.00 (64.70 to 65.70): VU0

Ion 83.00 (82.70 to 83.70): VU0



#20

cis-1,2-Dichloroethene

Concen: 50.362 ug/L

RT: 4.23 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

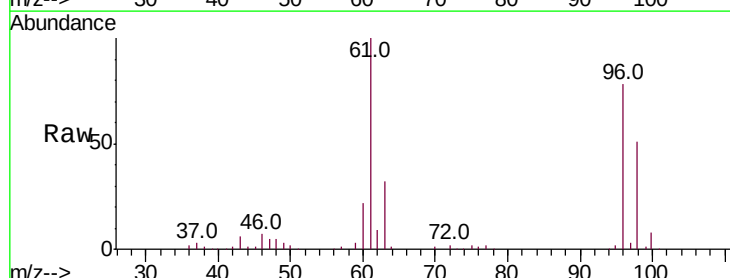
Tgt Ion: 96 Resp: 101819

Ion Ratio Lower Upper

96 100

61 128.8 88.6 164.6

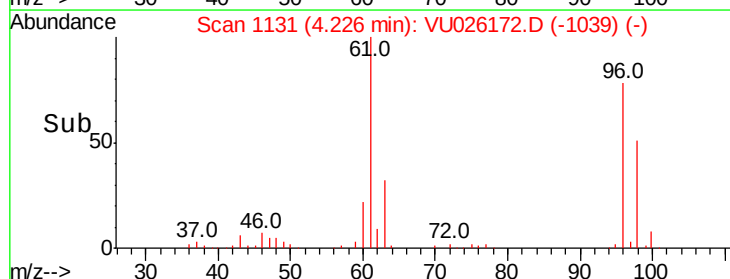
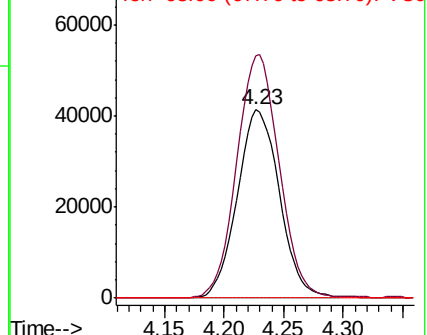
68 0.0 0.0 0.0

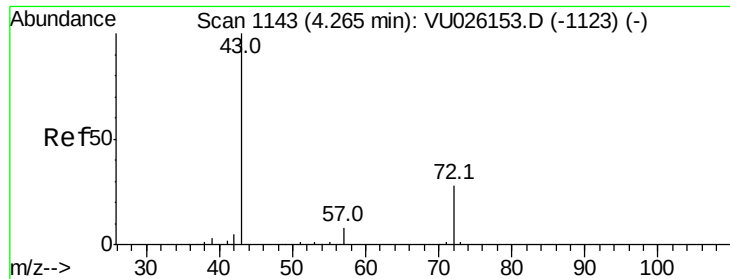


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 106.670 ug/L

RT: 4.26 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

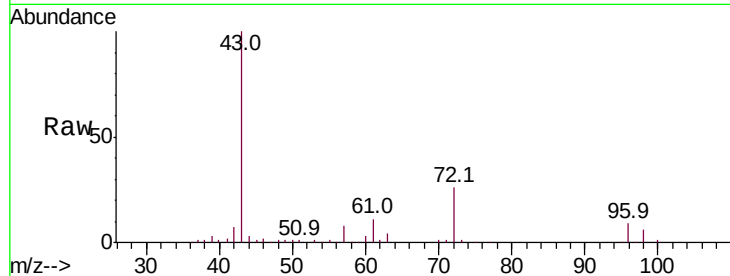
Instrument :
MSVOA_U
ClientSampleId :
VSTD05068

Tot Ion: 43 Resp: 157614

Ion Ratio Lower Upper

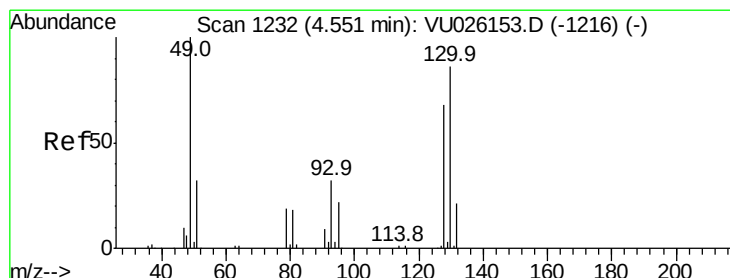
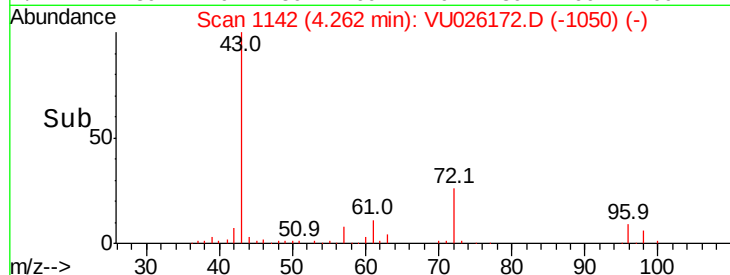
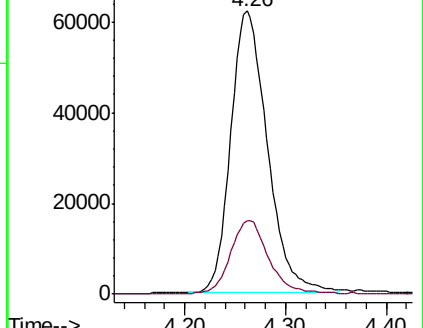
43 100

72 27.3 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU026172.D (-1142) (-)

Ion 72.00 (71.70 to 72.70): VU026172.D (-1142) (-)



#23

Bromochloromethane

Concen: 51.708 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Tgt Ion:128 Resp: 56510

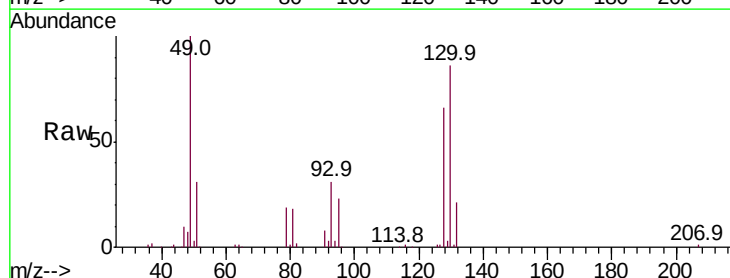
Ion Ratio Lower Upper

128 100

49 151.0 101.3 188.1

130 129.3 86.4 160.4

51 46.1 38.1 57.1

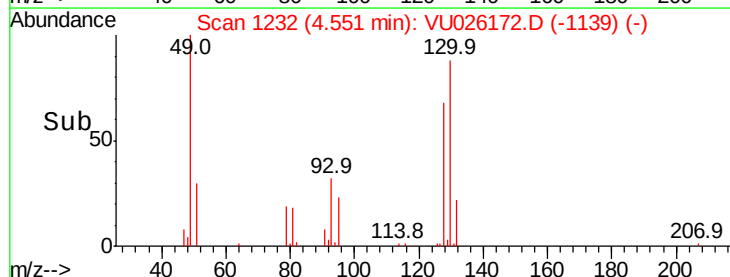
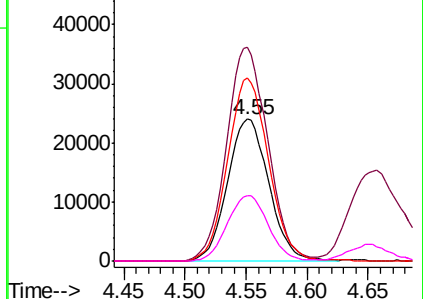


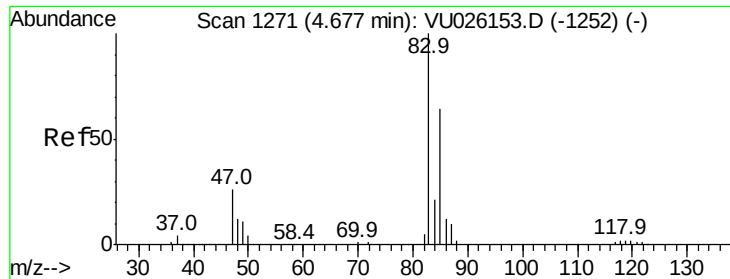
Abundance Ion 128.00 (127.70 to 128.70): VU026172.D (-1232) (-)

Ion 49.00 (48.70 to 49.70): VU026172.D (-1232) (-)

Ion 130.00 (129.70 to 130.70): VU026172.D (-1232) (-)

Ion 51.00 (50.70 to 51.70): VU026172.D (-1232) (-)

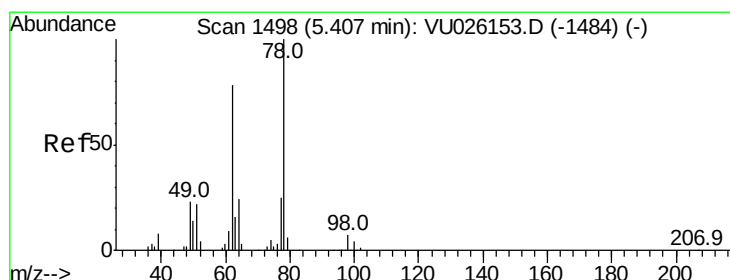
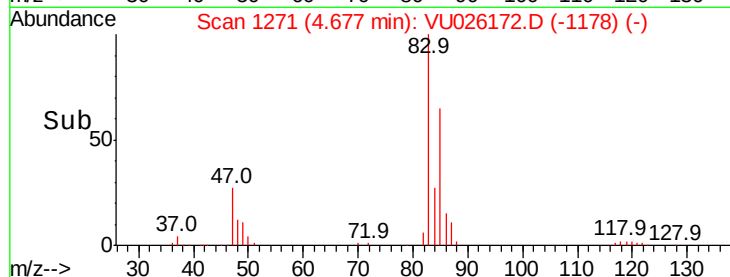
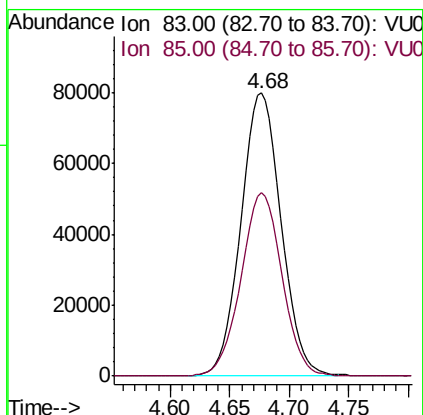
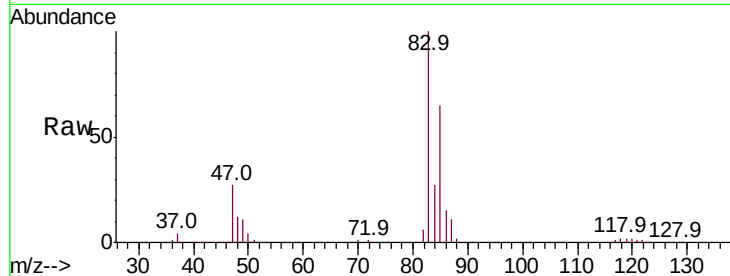




#25
Chloroform
Concen: 51.350 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

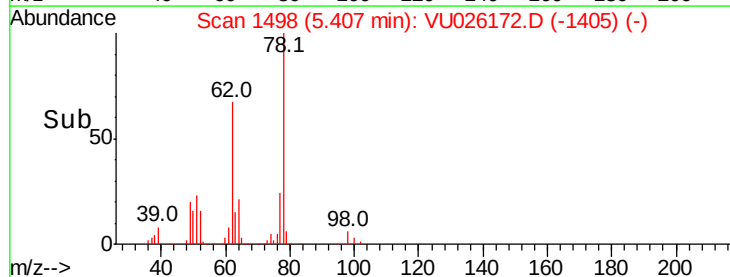
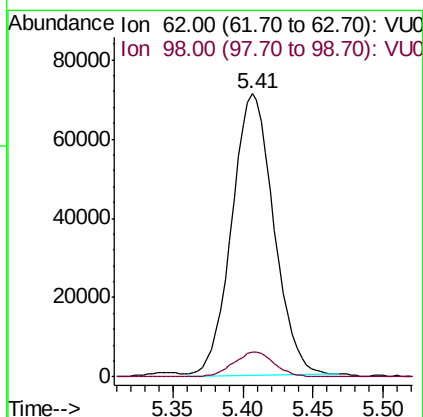
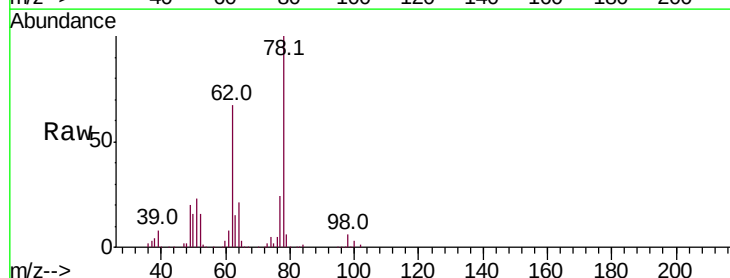
Instrument :
MSVOA_U
ClientSampleId :
VSTD05068

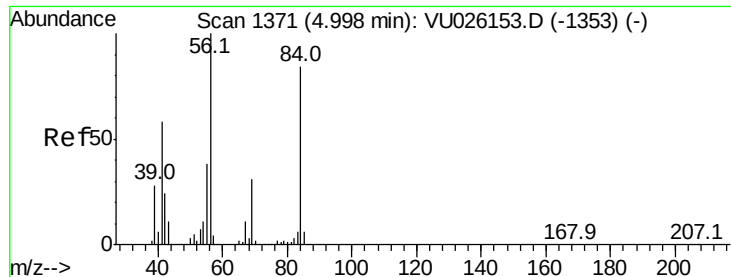
Tot Ion: 83 Resp: 187141
Ion Ratio Lower Upper
83 100
85 64.7 46.3 86.1



#27
1,2-Dichloroethane
Concen: 50.236 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

Tgt Ion: 62 Resp: 148023
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.4

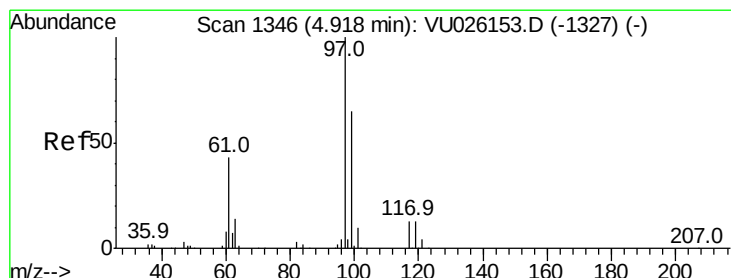
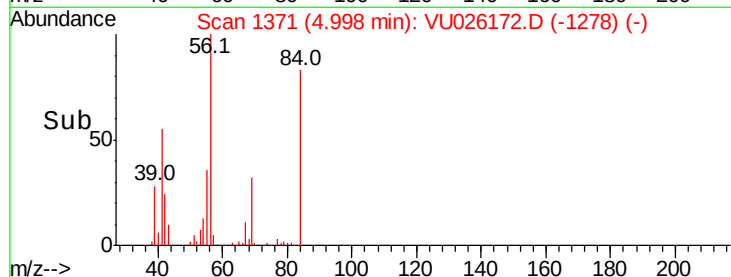
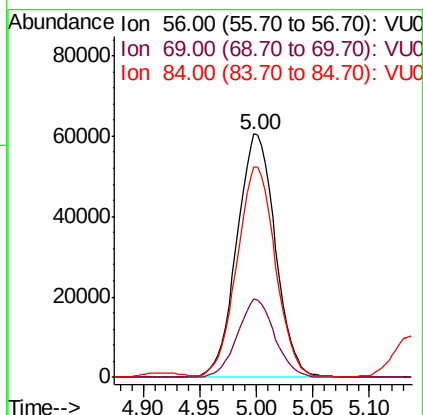
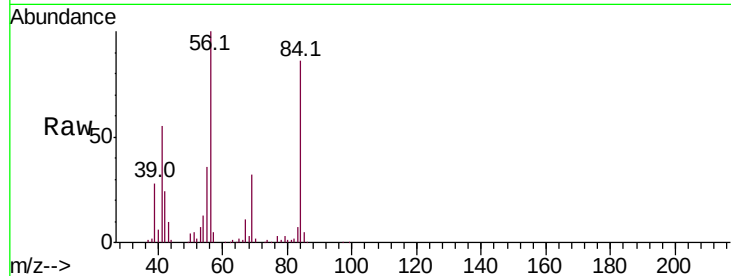




#29
Cyclohexane
Concen: 51.558 ug/L
RT: 5.00 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

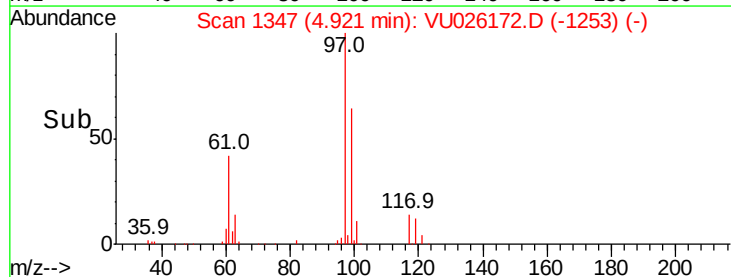
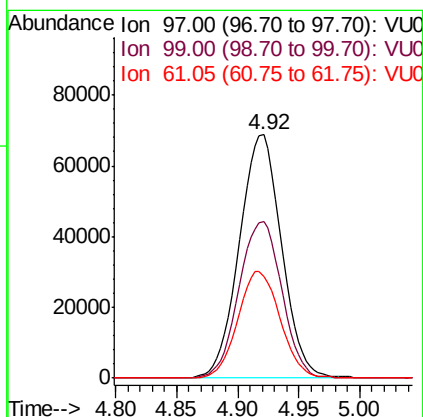
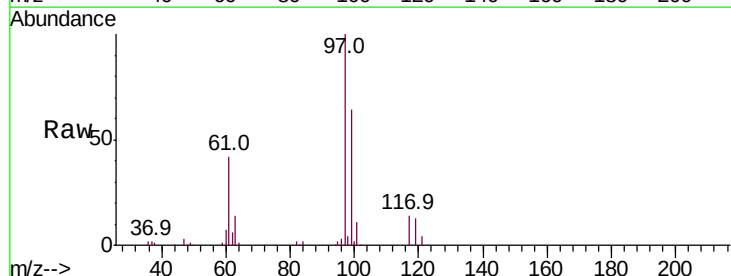
Instrument :
MSVOA_U
ClientSampleId :
VSTD05068

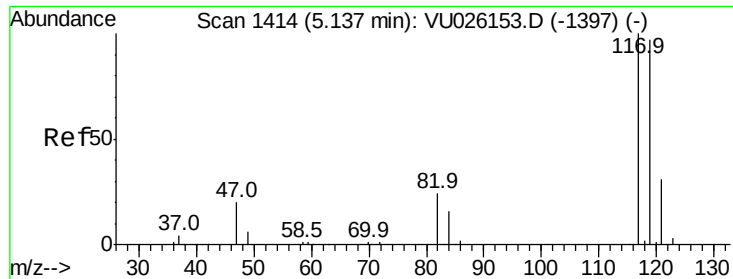
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	24.1	36.1
84	85.4	68.6	102.8



#30
1,1,1-Trichloroethane
Concen: 49.604 ug/L
RT: 4.92 min Scan# 1347
Delta R.T. 0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	52.2	78.2
61	44.2	35.4	53.0





#31

Carbon tetrachloride

Concen: 51.068 ug/L

RT: 5.14 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

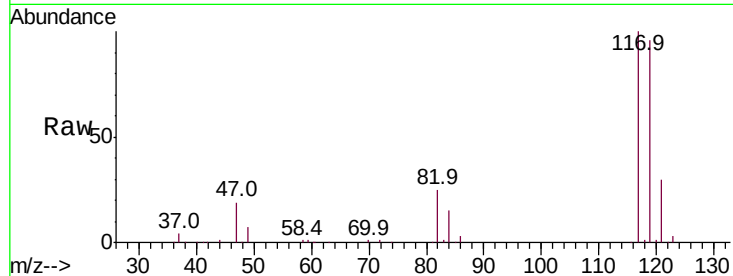
VSTD05068

Tot Ion:117 Resp: 153801

Ion Ratio Lower Upper

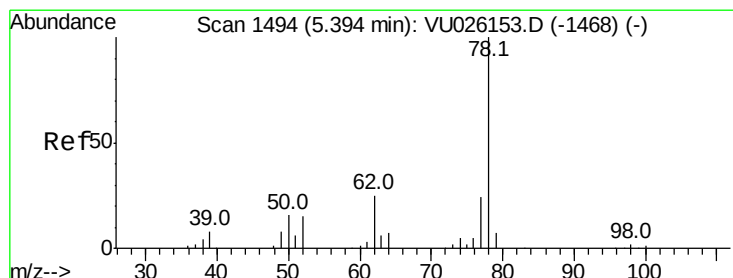
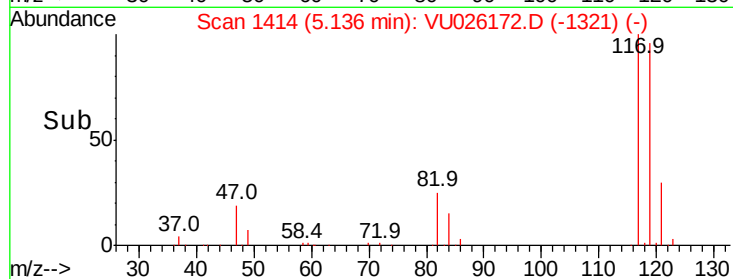
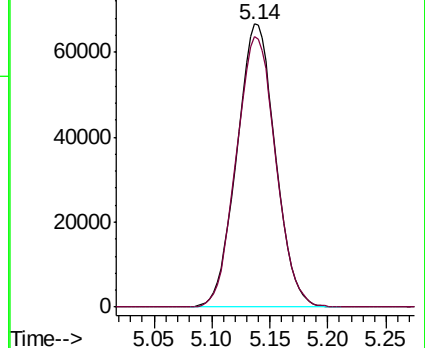
117 100

119 97.8 77.4 116.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.159 ug/L

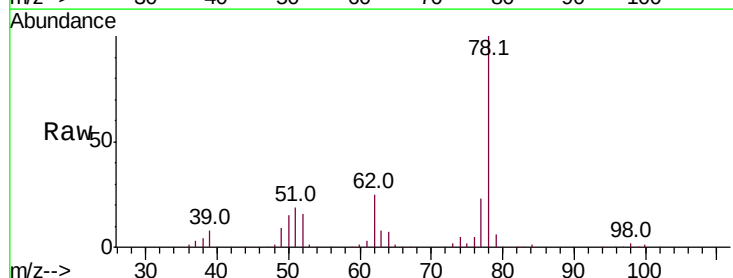
RT: 5.39 min Scan# 1494

Delta R.T. -0.00 min

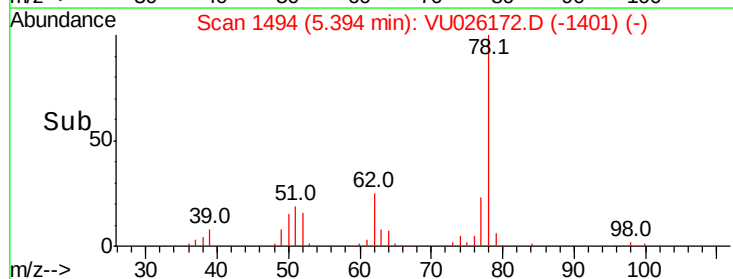
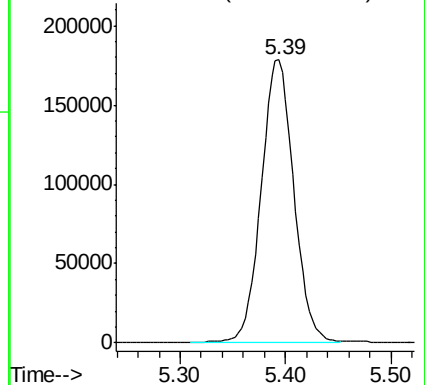
Lab File: VU026172.D

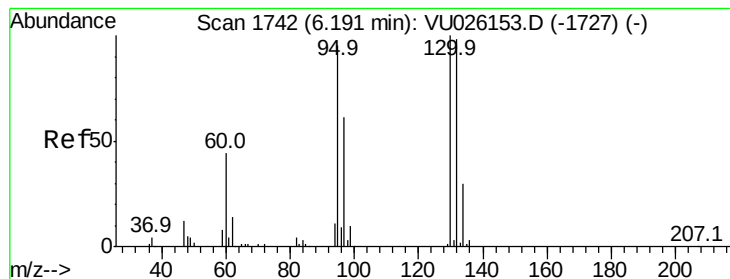
Acq: 16 Aug 2018 10:10

Tgt Ion: 78 Resp: 385416



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.743 ug/L

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

Tot Ion: 95 Resp: 99588

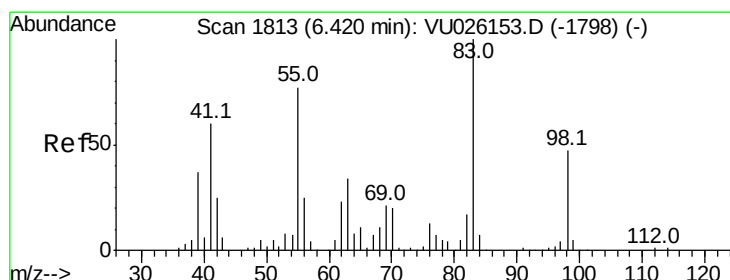
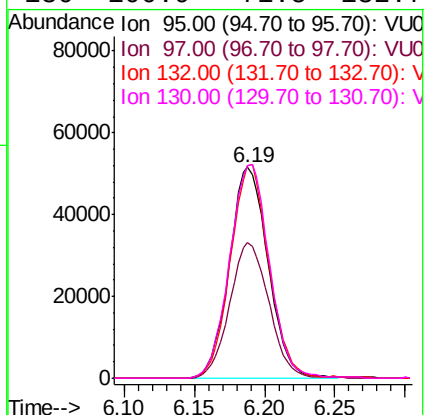
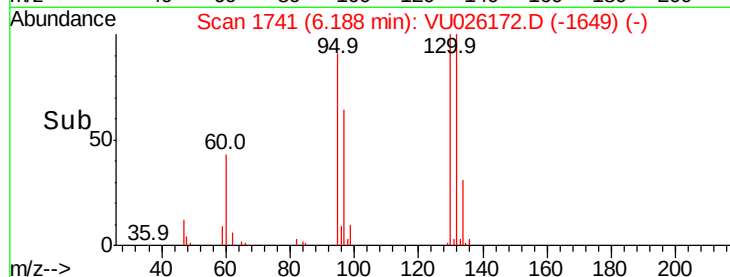
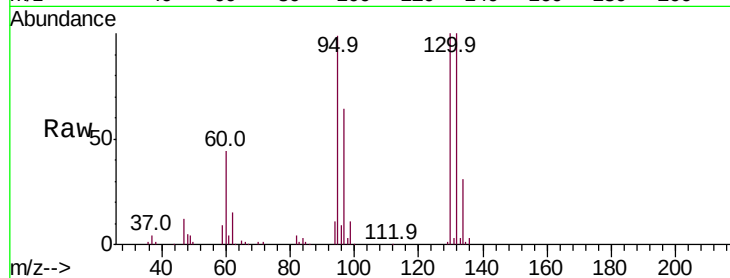
Ion Ratio Lower Upper

95 100

97 64.6 45.7 84.9

132 100.9 68.8 127.8

130 100.9 71.5 132.7



#35

Methylcyclohexane

Concen: 52.667 ug/L

RT: 6.42 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

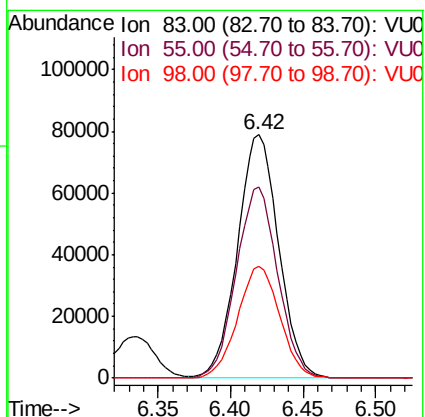
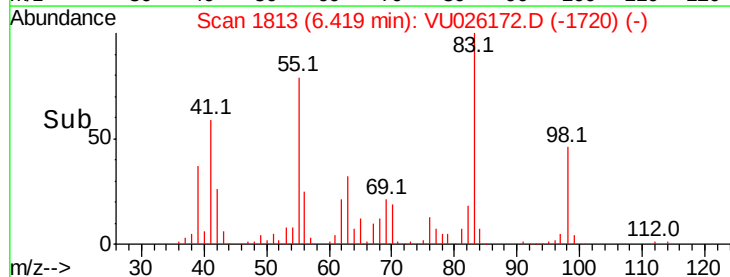
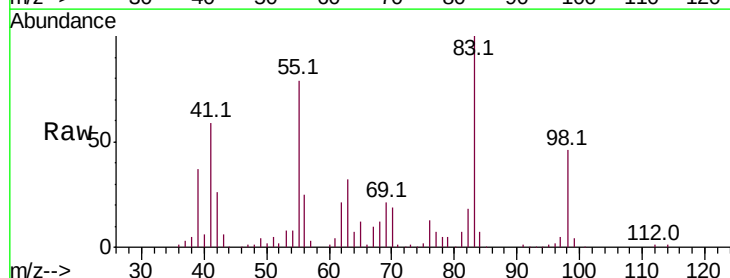
Tgt Ion: 83 Resp: 155163

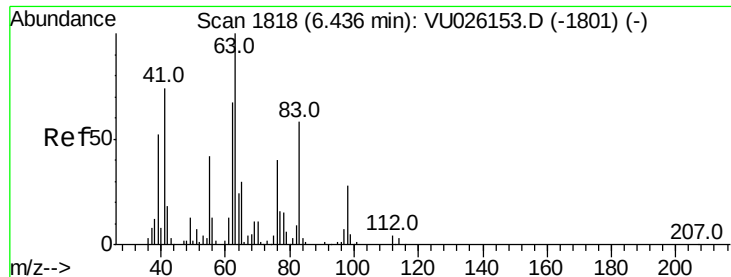
Ion Ratio Lower Upper

83 100

55 79.4 61.0 91.6

98 47.3 37.6 56.4





#37

1,2-Dichloropropane

Concen: 51.627 ug/L

RT: 6.44 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

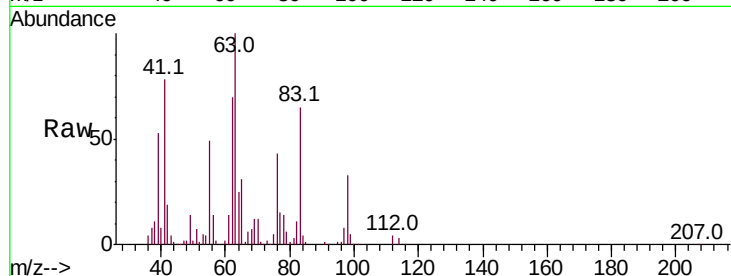
VSTD05068

Tot Ion: 63 Resp: 108624

Ion Ratio Lower Upper

63 100

112 4.2 3.5 5.3

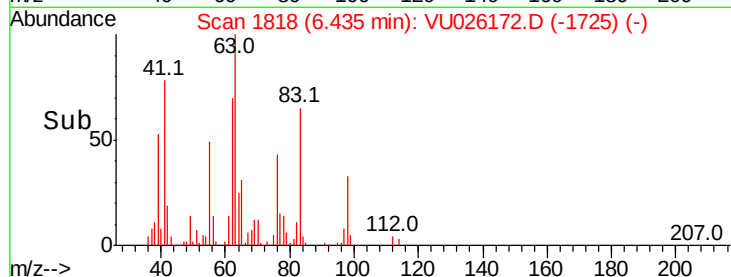


Abundance Ion 63.00 (62.70 to 63.70): VU026172.D (-1725) (-)

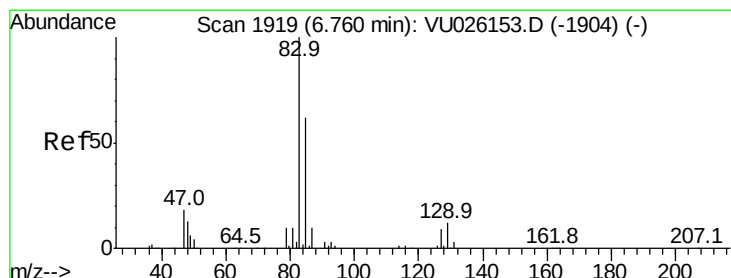
Ion 112.00 (111.70 to 112.70): VU026172.D (-1725) (-)

6.44

6.35 6.40 6.45 6.50



Time-->



#38

Bromodichloromethane

Concen: 51.041 ug/L

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

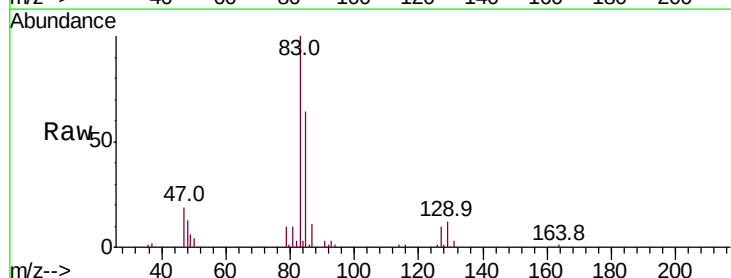
Tgt Ion: 83 Resp: 142188

Ion Ratio Lower Upper

83 100

85 64.3 46.0 85.4

127 9.7 7.5 11.3



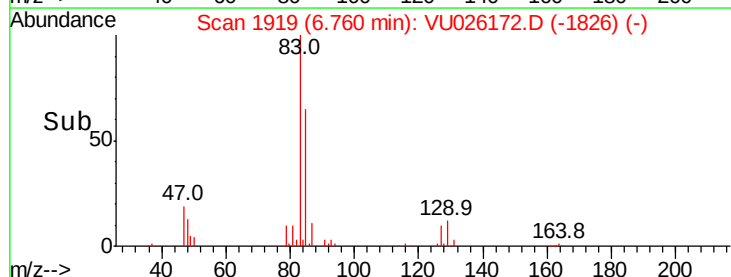
Abundance Ion 83.00 (82.70 to 83.70): VU026172.D (-1826) (-)

Ion 85.00 (84.70 to 85.70): VU026172.D (-1826) (-)

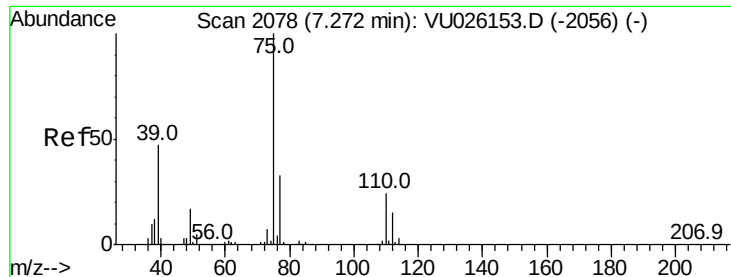
Ion 127.00 (126.70 to 127.70): VU026172.D (-1826) (-)

6.76

6.70 6.75 6.80 6.85



Time-->



#39

cis-1,3-Dichloropropene

Concen: 50.283 ug/L

RT: 7.27 min Scan# 2078

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

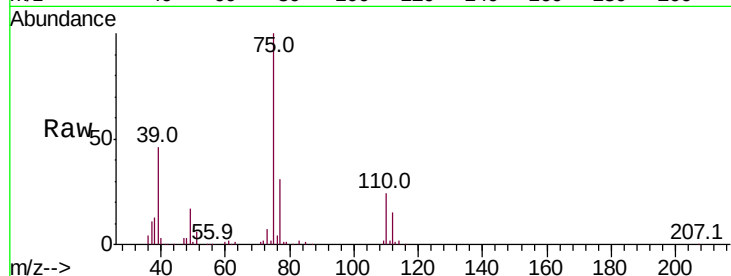
VSTD05068

Tot Ion: 75 Resp: 157052

Ion Ratio Lower Upper

75 100

77 31.3 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

7.27

100000

80000

60000

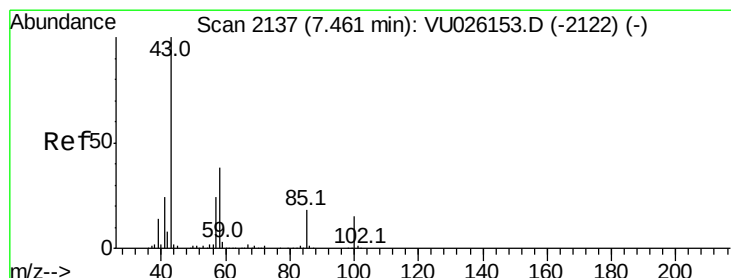
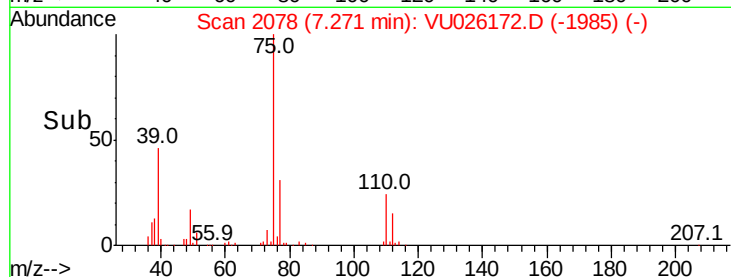
40000

20000

0

Time-->

7.20 7.25 7.30 7.35



#40

4-Methyl-2-pentanone

Concen: 102.938 ug/L

RT: 7.46 min Scan# 2137

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

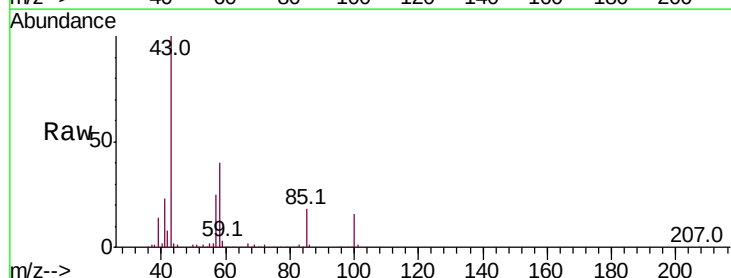
Tgt Ion: 43 Resp: 268672

Ion Ratio Lower Upper

43 100

58 39.3 31.8 47.8

100 15.7 12.2 18.2



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

Ion 100.00 (99.70 to 100.70): VU0

200000

150000

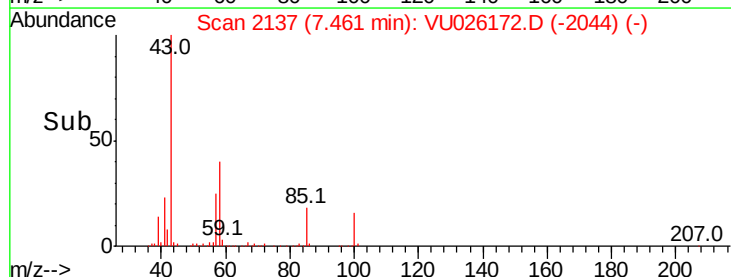
100000

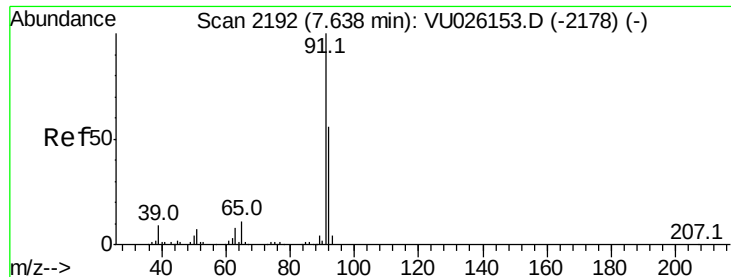
50000

0

Time-->

7.40 7.45 7.50 7.55





#42

Toluene

Concen: 52.245 ug/L

RT: 7.64 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

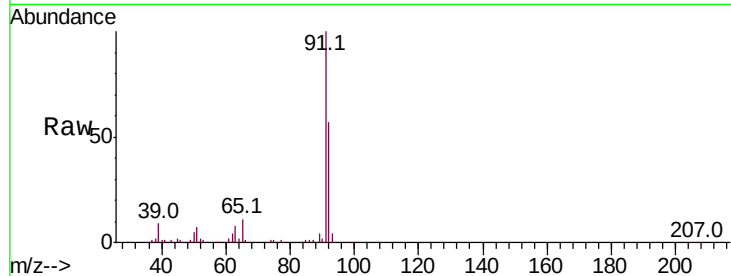
VSTD05068

Tot Ion: 91 Resp: 418004

Ion Ratio Lower Upper

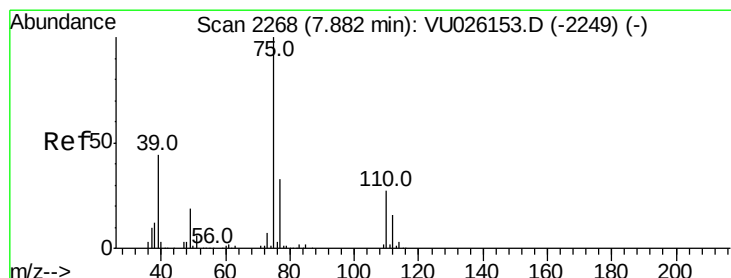
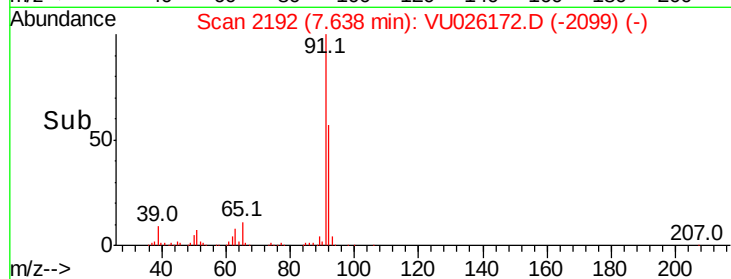
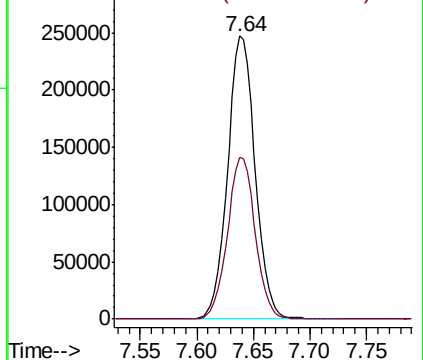
91 100

92 57.0 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 51.519 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. -0.00 min

Lab File: VU026172.D

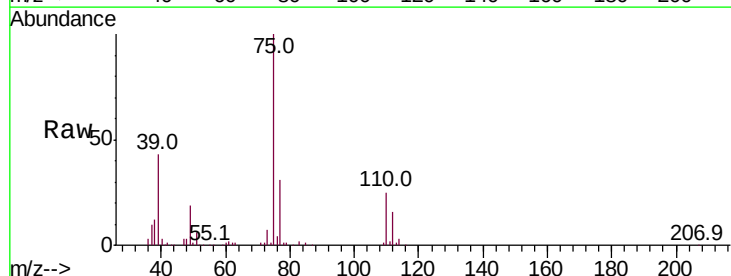
Acq: 16 Aug 2018 10:10

Tgt Ion: 75 Resp: 155046

Ion Ratio Lower Upper

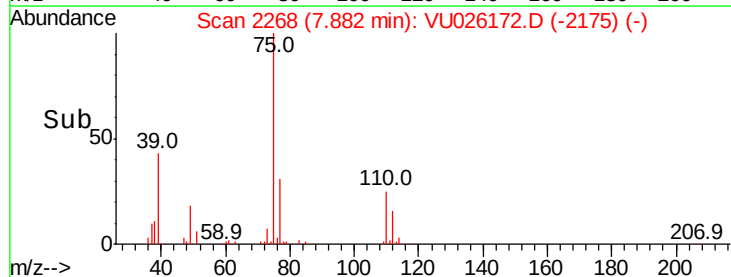
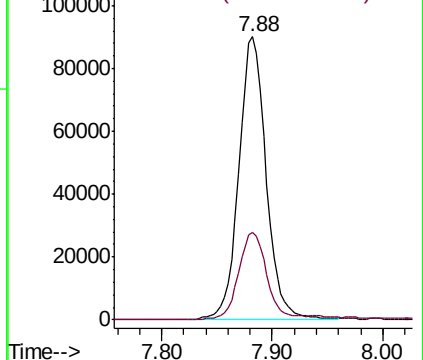
75 100

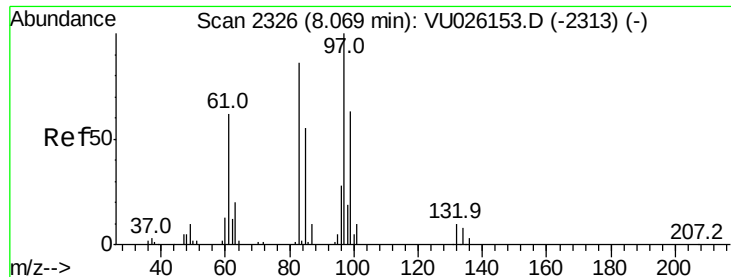
77 31.0 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

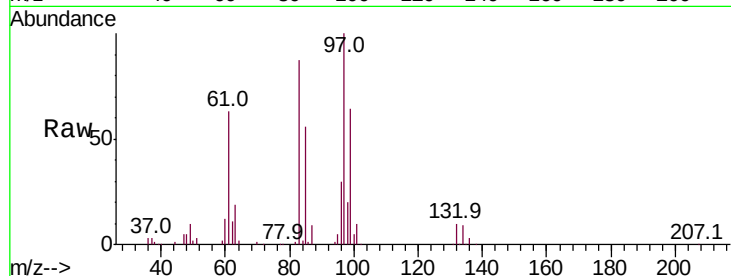




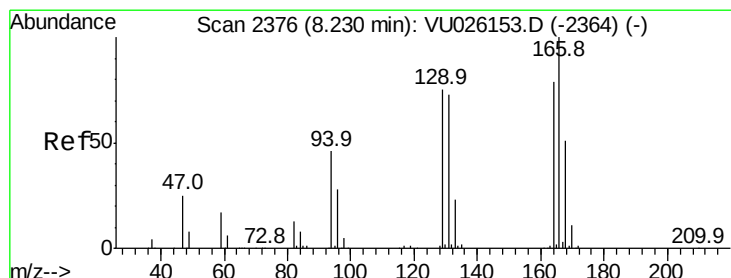
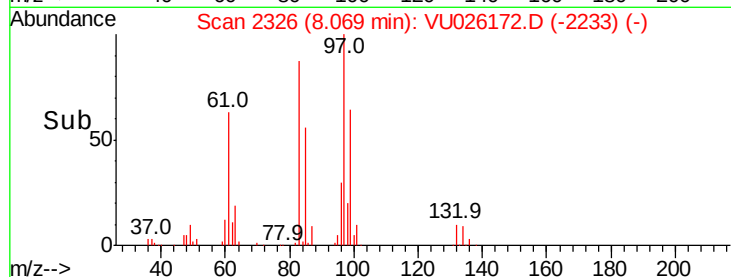
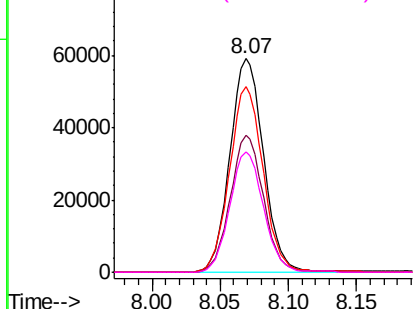
#45
 1,1,2-Trichloroethane
 Concen: 50.697 ug/L
 RT: 8.07 min Scan# 2326
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

Tot Ion:	97	Resp:	101137
Ion	Ratio	Lower	Upper
97	100		
99	64.3	43.3	80.5
83	86.9	58.4	108.6
85	56.5	39.0	72.4

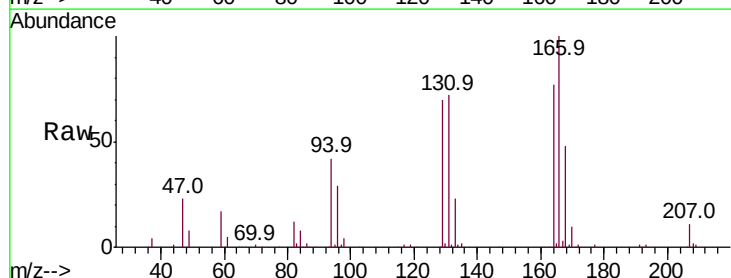


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

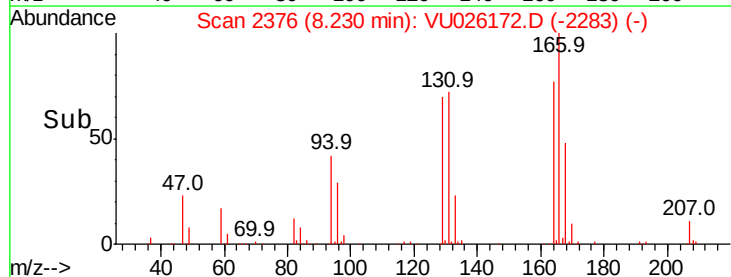
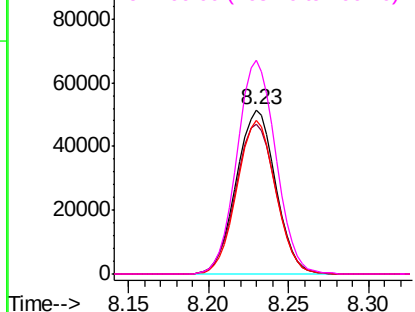


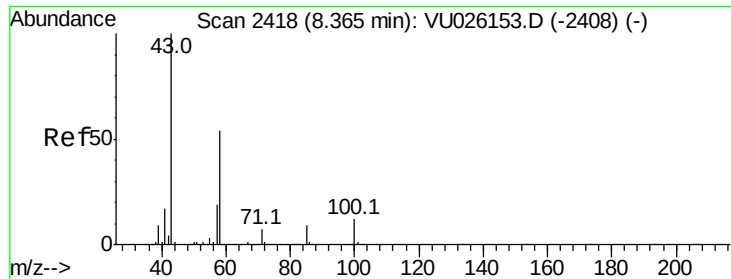
#46
 Tetrachloroethene
 Concen: 51.038 ug/L
 RT: 8.23 min Scan# 2376
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion:	164	Resp:	86387
Ion	Ratio	Lower	Upper
164	100		
129	91.5	65.7	121.9
131	93.9	62.0	115.2
166	130.2	88.9	165.1



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

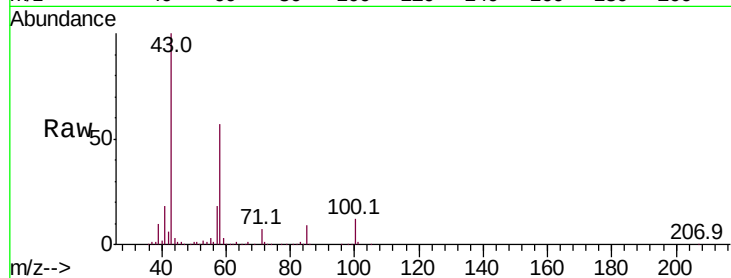




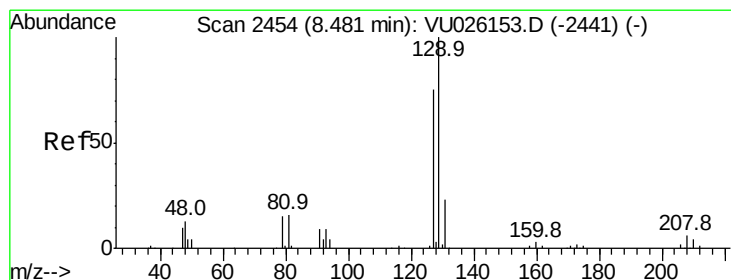
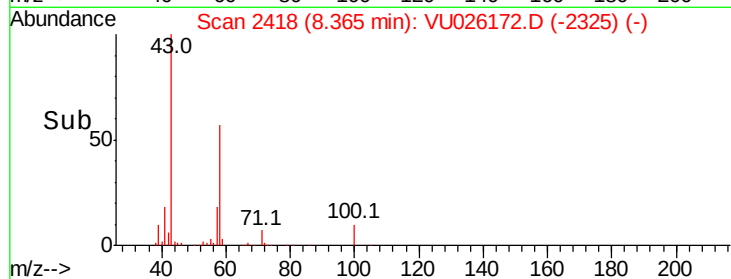
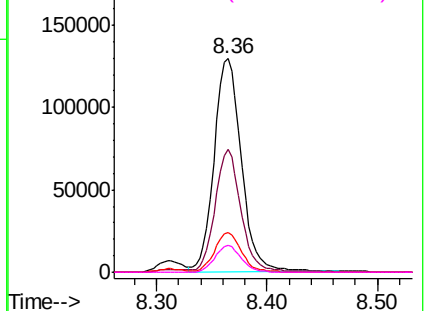
#48
2-Hexanone
Concen: 108.905 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

Instrument :
MSVOA_U
ClientSampleId :
VSTD05068

Tot Ion:	43	Resp:	222714
Ion	Ratio	Lower	Upper
43	100		
58	53.9	42.9	64.3
57	18.5	15.1	22.7
100	12.0	9.2	13.8

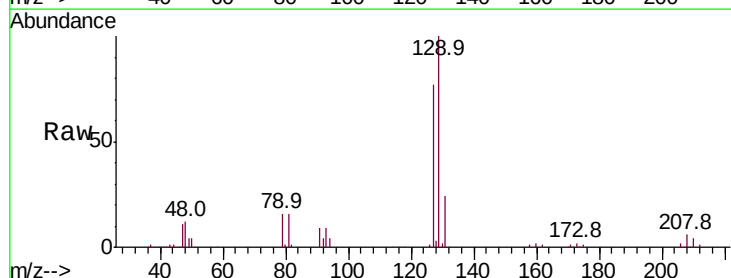


Abundance Ion 43.00 (42.70 to 43.70): VU026172.D (-2325) (-)
Ion 58.00 (57.70 to 58.70): VU026172.D (-2325) (-)
Ion 57.00 (56.70 to 57.70): VU026172.D (-2325) (-)
Ion 100.00 (99.70 to 100.70): VU026172.D (-2325) (-)

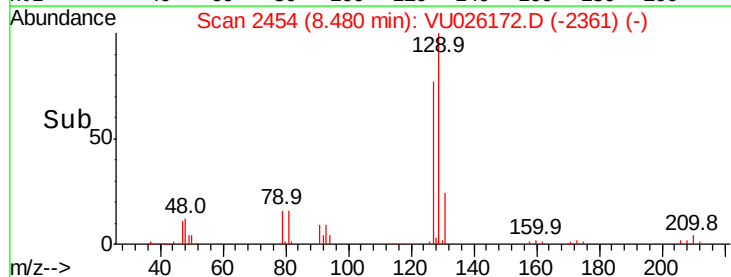
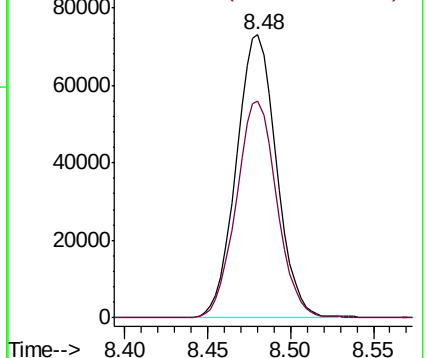


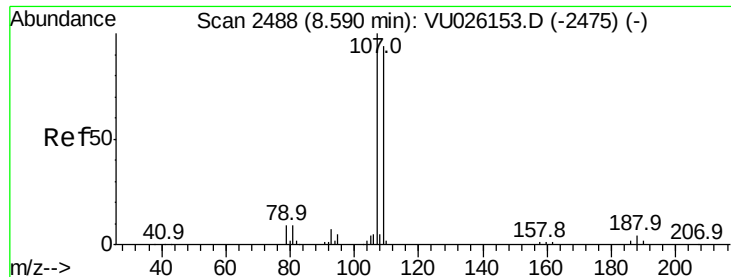
#49
Dibromochloromethane
Concen: 51.239 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VU026172.D
Acq: 16 Aug 2018 10:10

Tgt Ion:	129	Resp:	123110
Ion	Ratio	Lower	Upper
129	100		
127	76.5	54.6	101.4



Abundance Ion 129.00 (128.70 to 129.70): VU026172.D (-2361) (-)
Ion 127.00 (126.70 to 127.70): VU026172.D (-2361) (-)

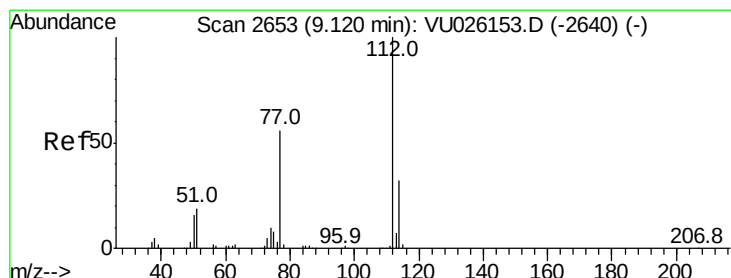
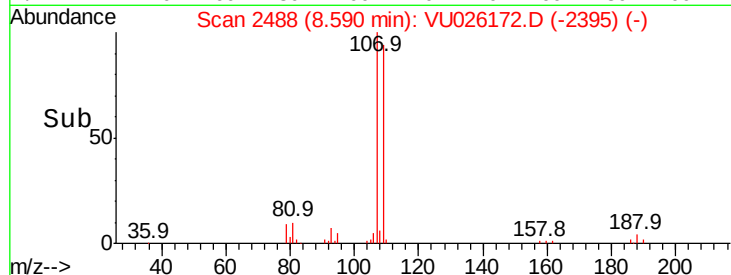
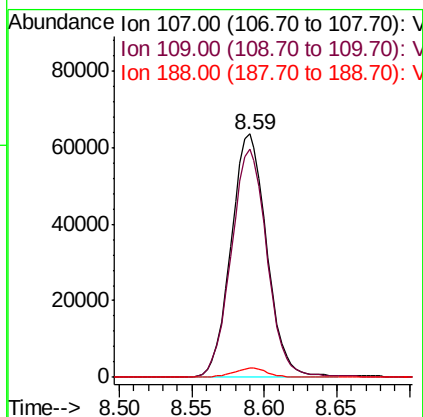
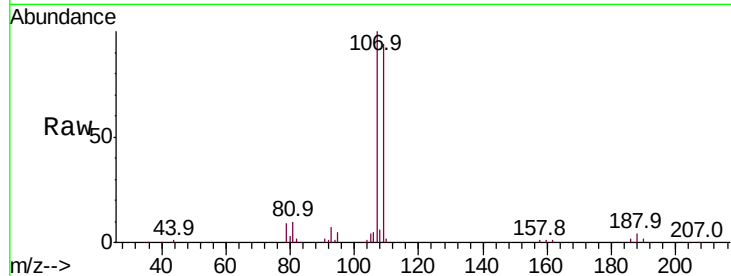




#50
 1,2-Dibromoethane
 Concen: 52.341 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

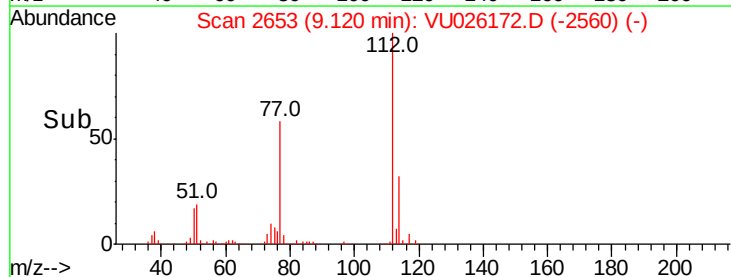
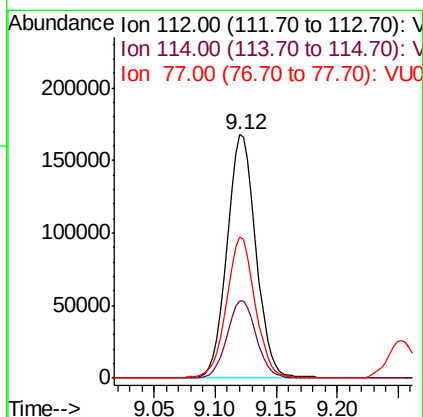
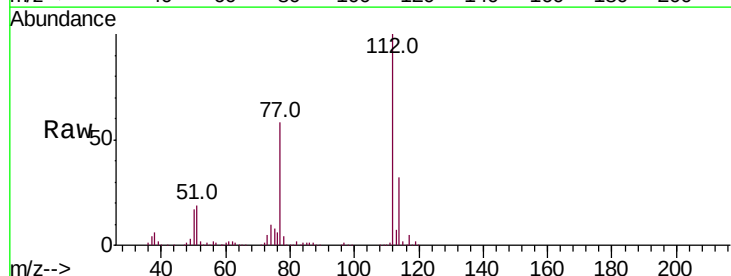
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

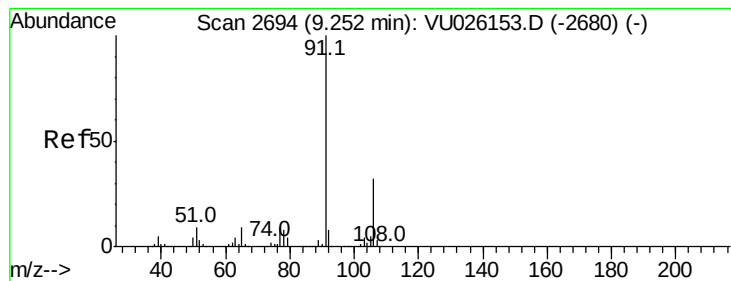
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.6	66.1	122.7
188	3.6	3.2	4.8



#51
 Chlorobenzene
 Concen: 50.953 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.5	41.9
77	58.1	45.0	67.4





#52

Ethylbenzene

Concen: 52.543 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

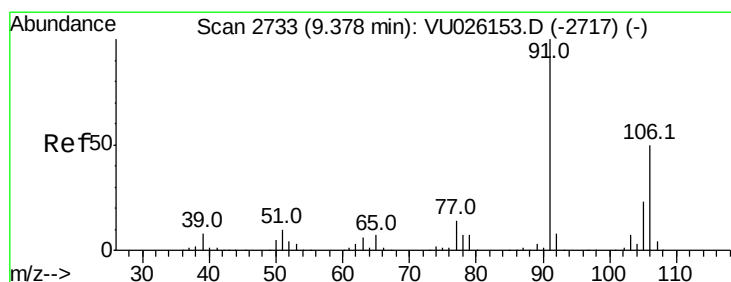
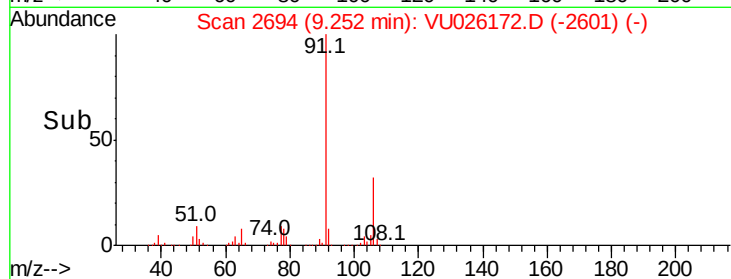
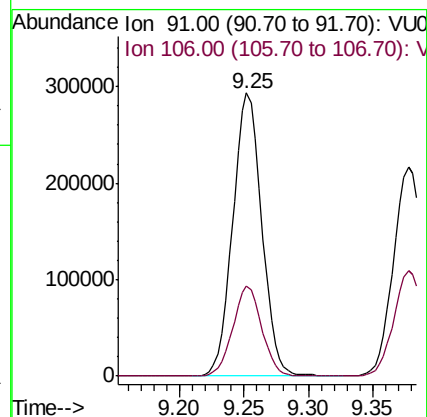
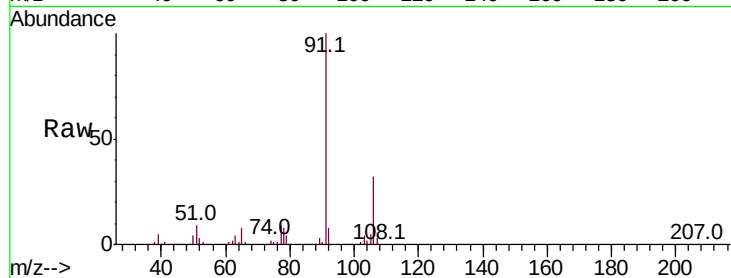
VSTD05068

Tot Ion: 91 Resp: 457930

Ion Ratio Lower Upper

91 100

106 31.7 22.3 41.5



#53

m,p-Xylene

Concen: 52.418 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026172.D

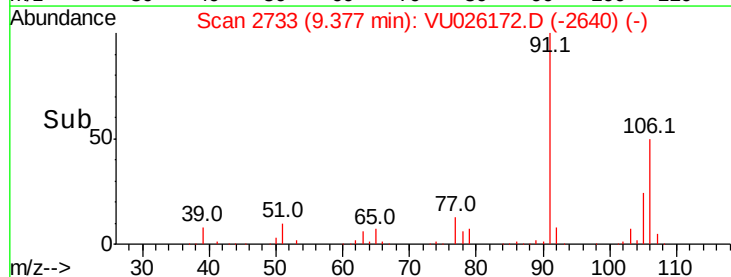
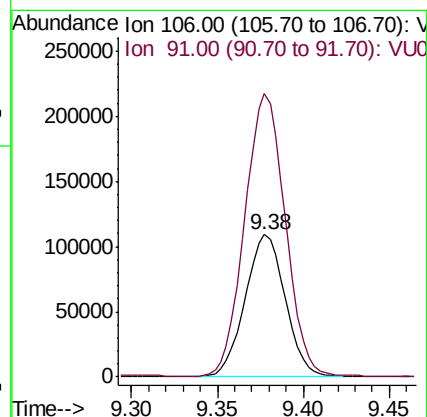
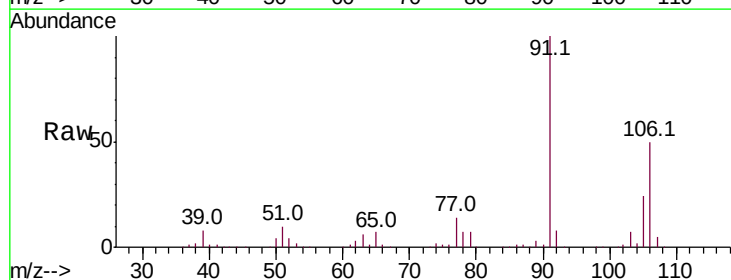
Acq: 16 Aug 2018 10:10

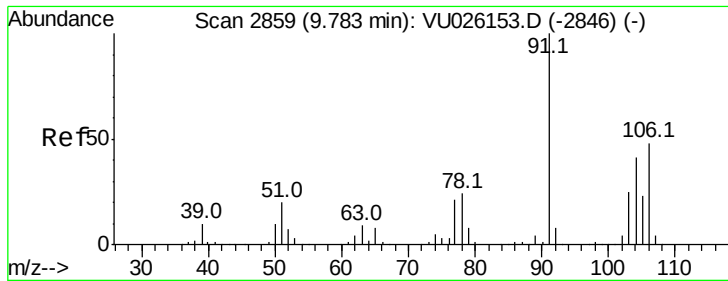
Tgt Ion: 106 Resp: 176048

Ion Ratio Lower Upper

106 100

91 198.9 139.2 258.4





#54

o-xylene

Concen: 51.809 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

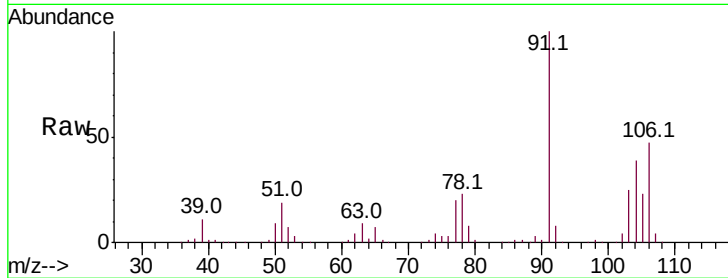
VSTD05068

Tot Ion:106 Resp: 173630

Ion Ratio Lower Upper

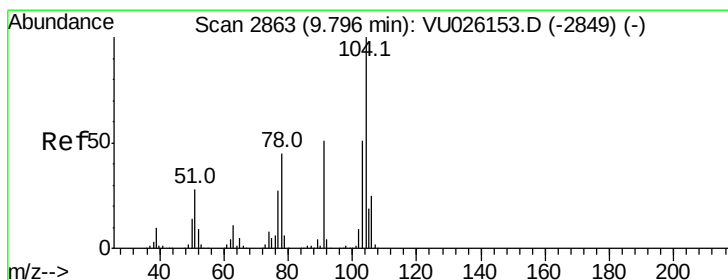
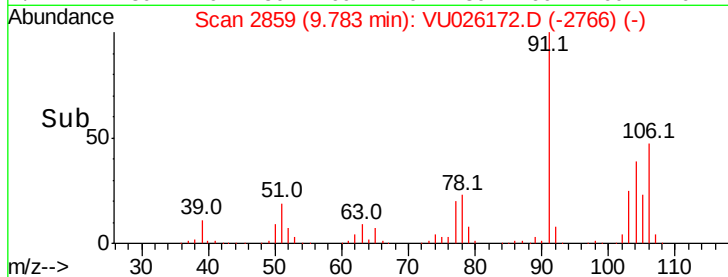
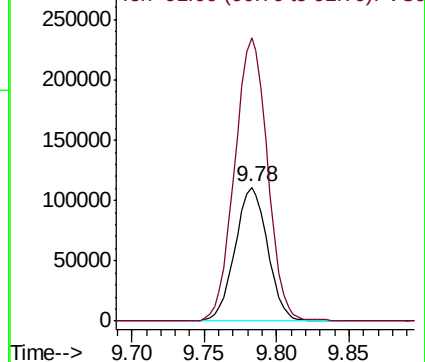
106 100

91 211.6 148.0 274.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.773 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026172.D

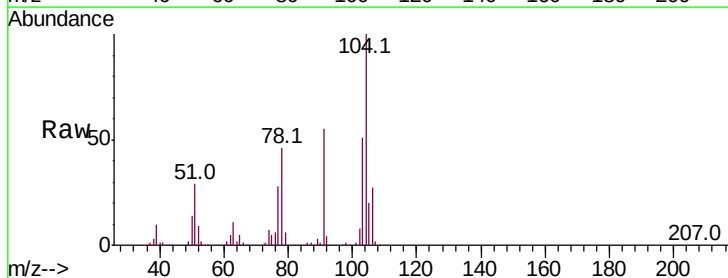
Acq: 16 Aug 2018 10:10

Tgt Ion:104 Resp: 300050

Ion Ratio Lower Upper

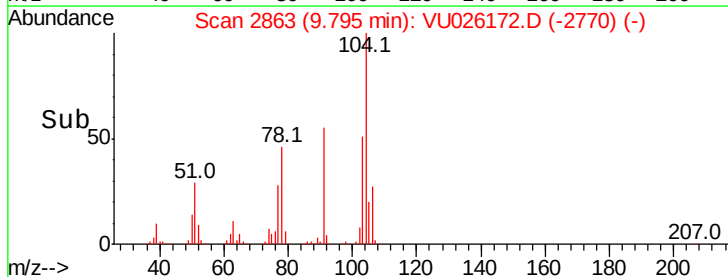
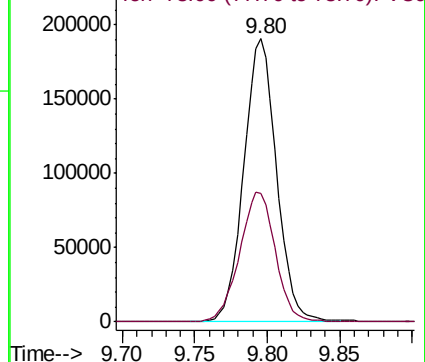
104 100

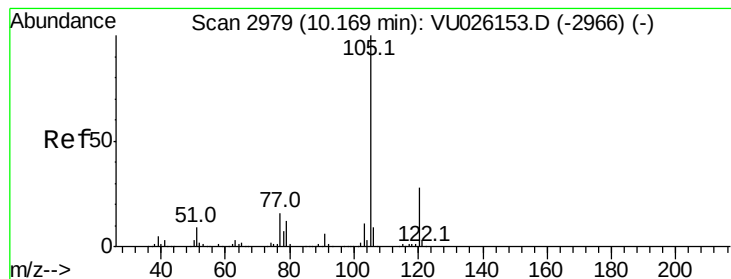
78 45.6 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.044 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

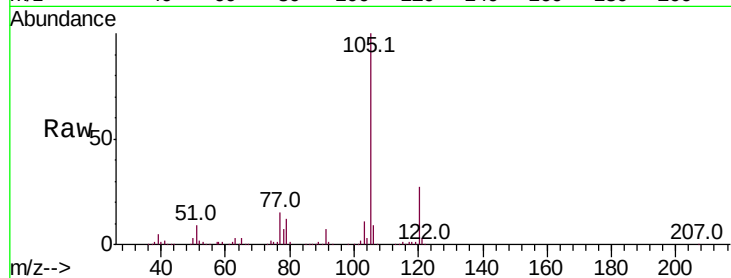
Tot Ion:105 Resp: 456400

Ion Ratio Lower Upper

105 100

120 27.5 21.5 32.3

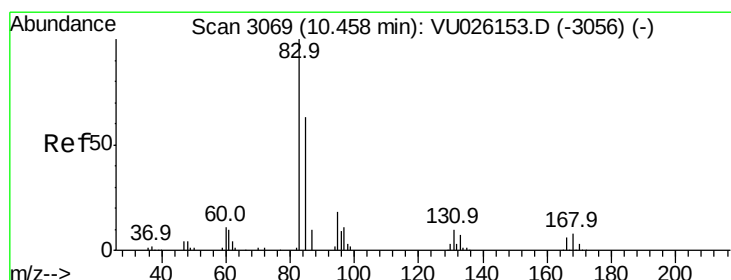
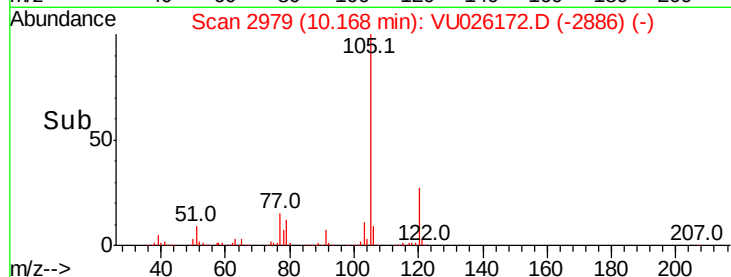
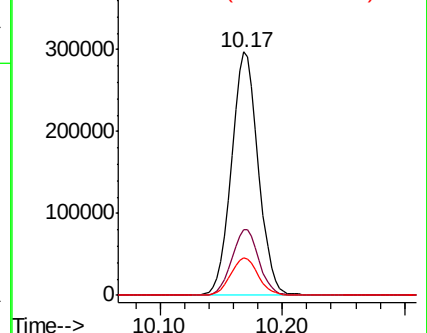
77 15.8 12.3 18.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.493 ug/L

RT: 10.46 min Scan# 3070

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

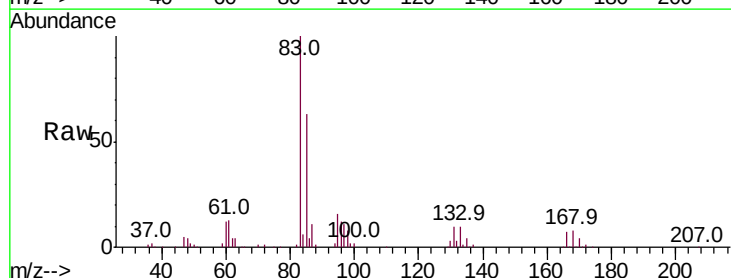
Tgt Ion: 83 Resp: 168218

Ion Ratio Lower Upper

83 100

85 63.1 45.0 83.6

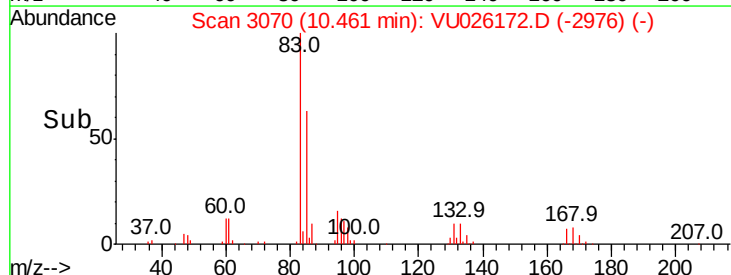
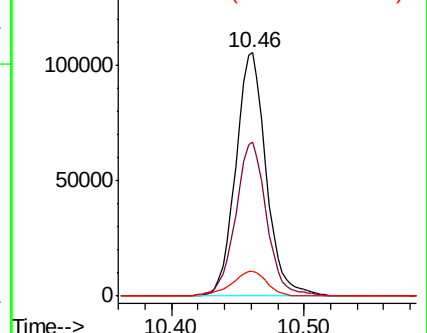
131 10.3 8.4 12.6

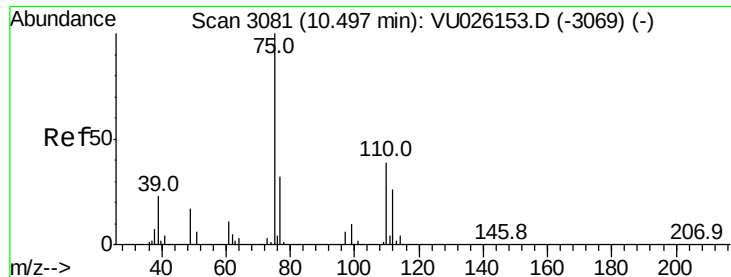


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.410 ug/L

RT: 10.50 min Scan# 3081

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

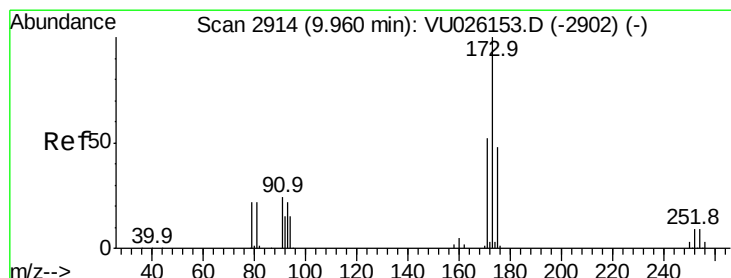
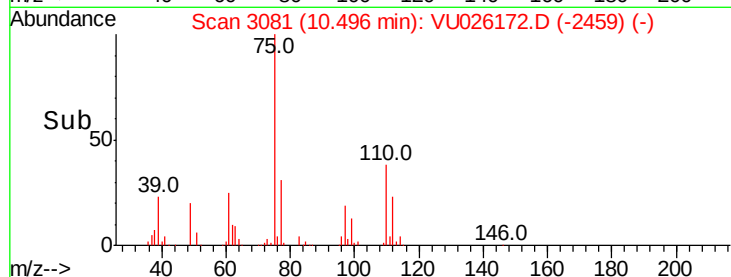
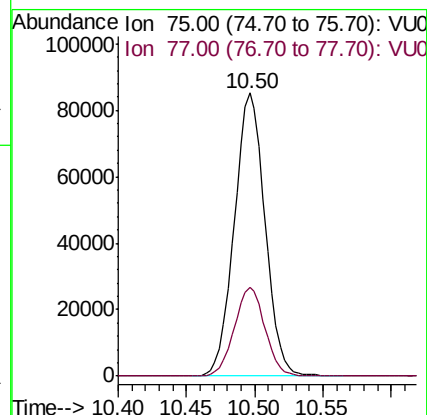
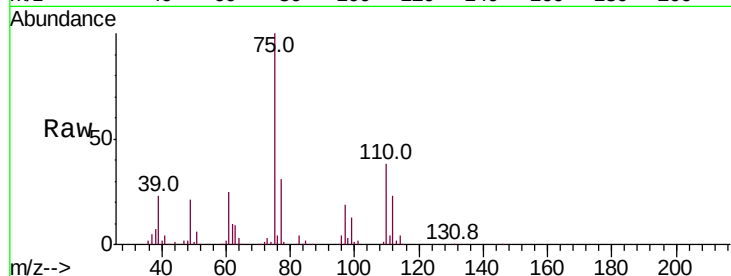
VSTD05068

Tot Ion: 75 Resp: 133251

Ion Ratio Lower Upper

75 100

77 31.3 26.1 39.1



#61

Bromoform

Concen: 50.534 ug/L

RT: 9.96 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

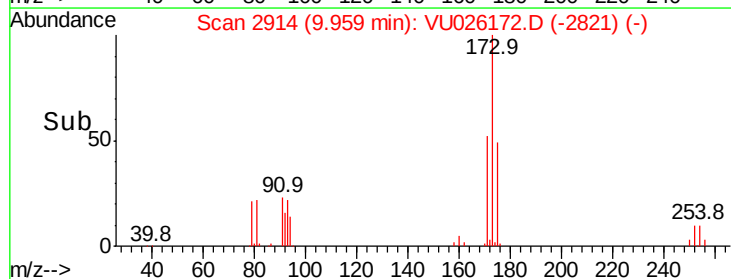
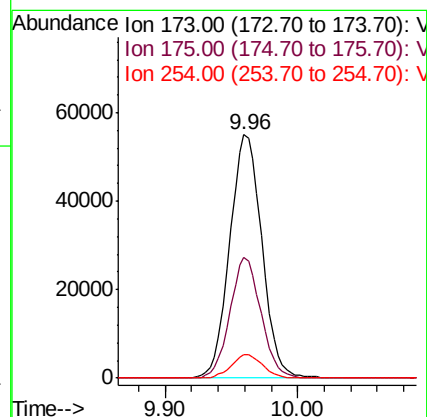
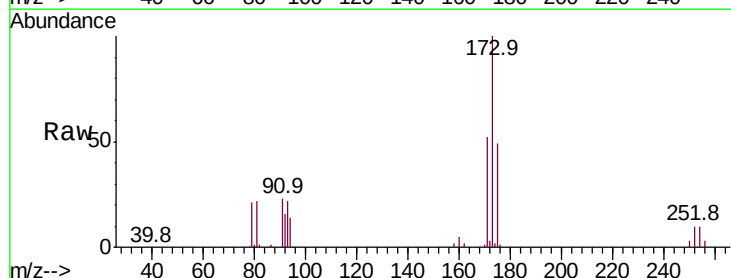
Tgt Ion:173 Resp: 92897

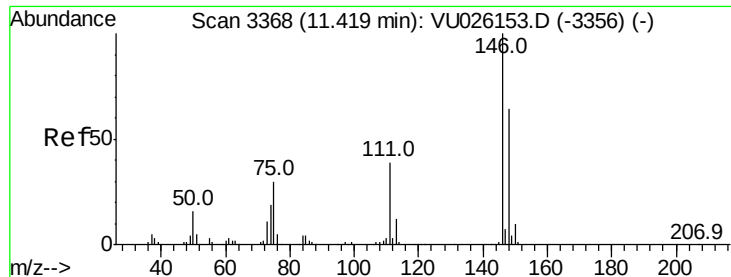
Ion Ratio Lower Upper

173 100

175 47.6 38.8 58.2

254 9.4 7.3 10.9

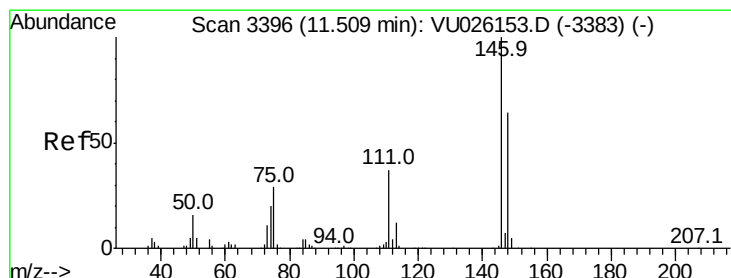
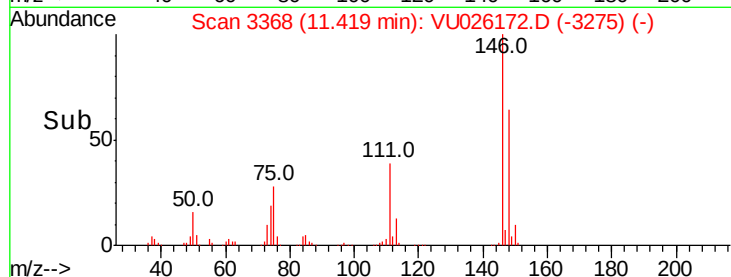
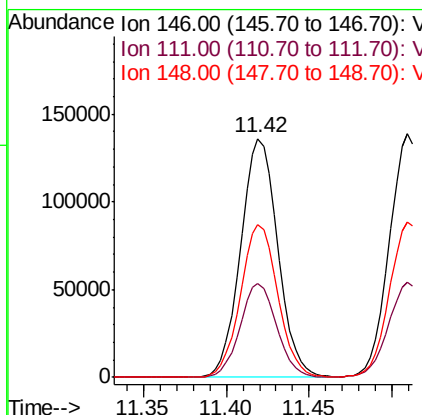
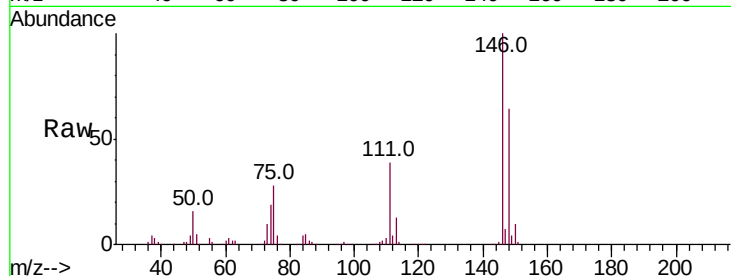




#62
 1,3-Dichlorobenzene
 Concen: 50.198 ug/L
 RT: 11.42 min Scan# 3368
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

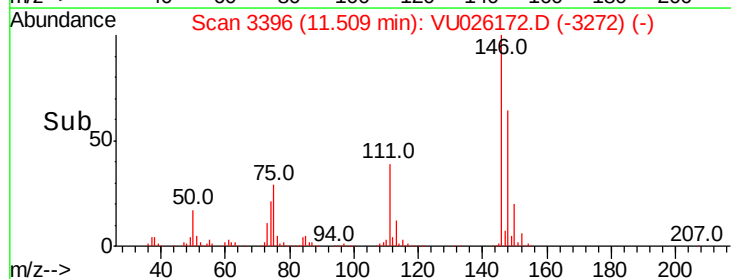
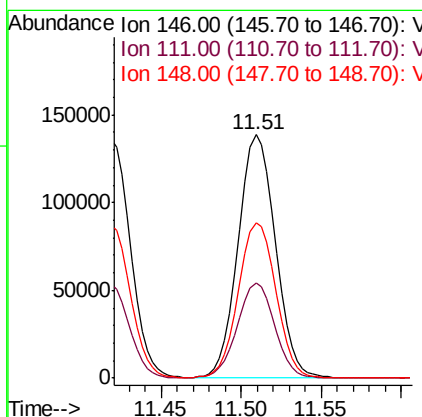
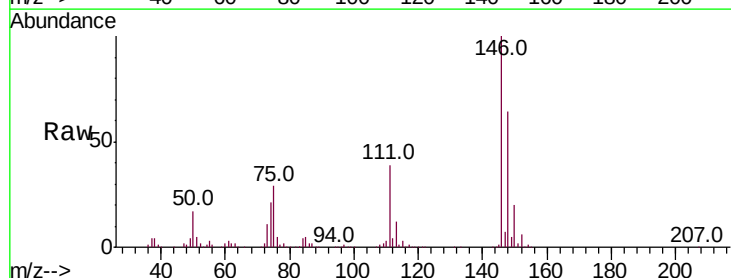
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

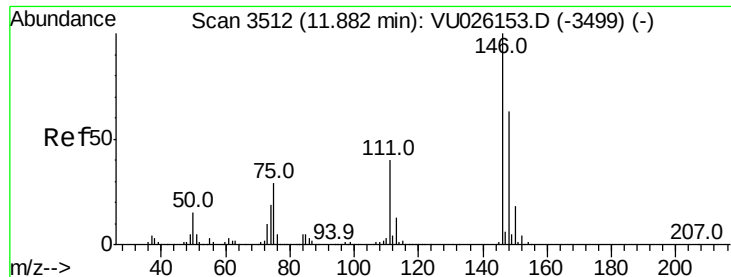
Tot Ion:146 Resp: 211508
 Ion Ratio Lower Upper
 146 100
 111 39.3 26.7 49.7
 148 64.1 44.1 81.9



#63
 1,4-Dichlorobenzene
 Concen: 50.351 ug/L
 RT: 11.51 min Scan# 3396
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion:146 Resp: 218793
 Ion Ratio Lower Upper
 146 100
 111 39.1 27.5 51.1
 148 64.0 44.8 83.2

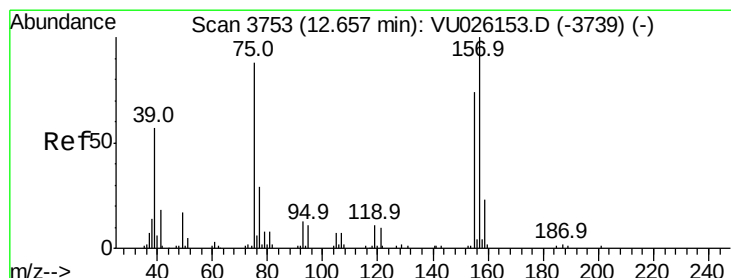
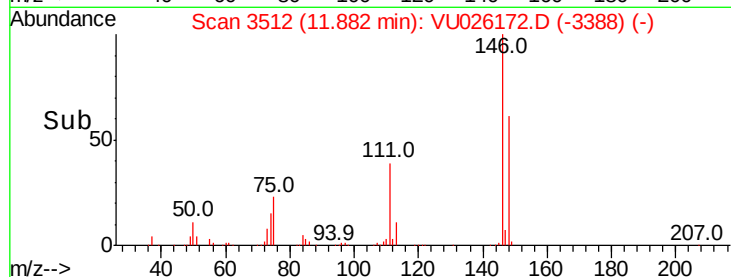
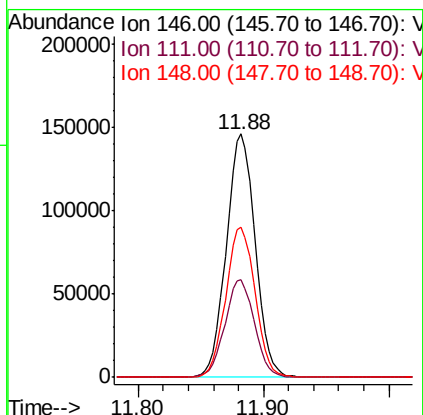
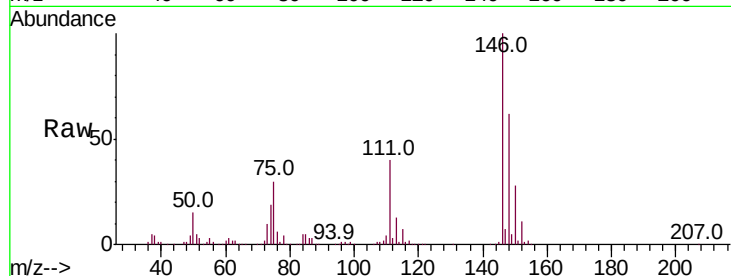




#65
 1,2-Dichlorobenzene
 Concen: 51.648 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

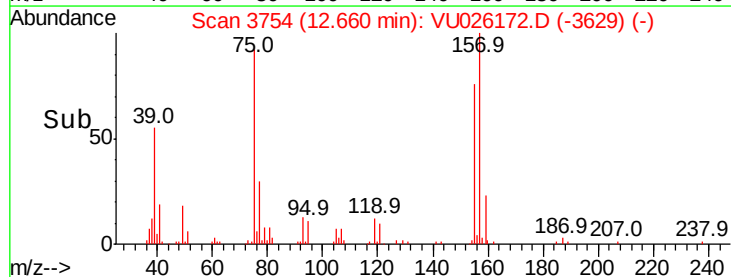
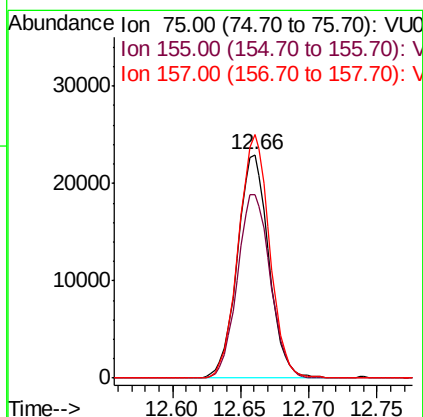
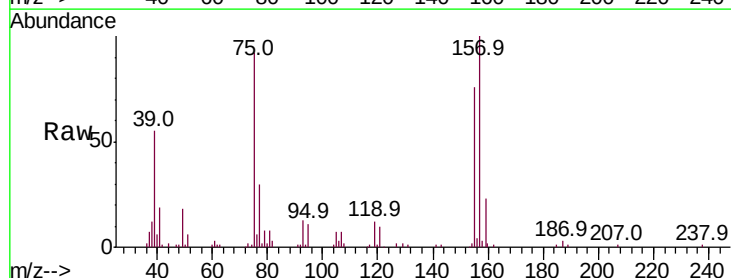
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

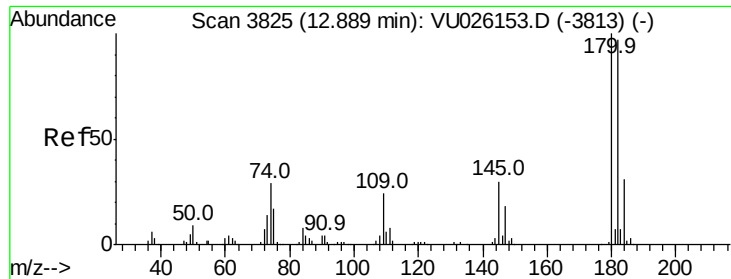
Tot Ion	Ratio	Lower	Upper
146	100		
111	39.9	32.7	49.1
148	61.6	51.4	77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.432 ug/L
 RT: 12.66 min Scan# 3754
 Delta R.T. 0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.3	68.2	102.2
157	108.9	90.5	135.7

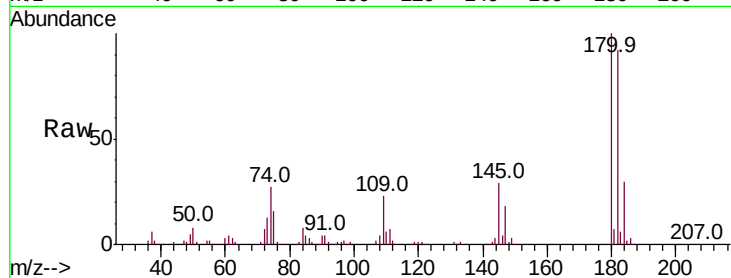




#67
 1,3,5-Trichlorobenzene
 Concen: 53.804 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05068

Tot Ion:	180	Resp:	167416
Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.6	113.4
184	29.9	24.3	36.5
145	29.2	23.3	34.9



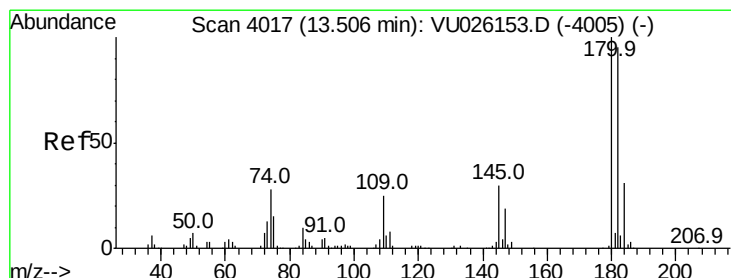
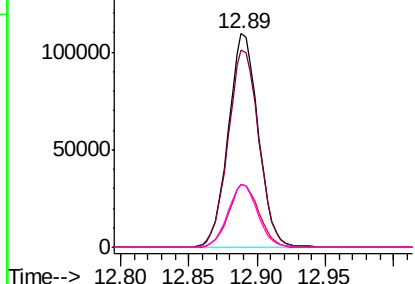
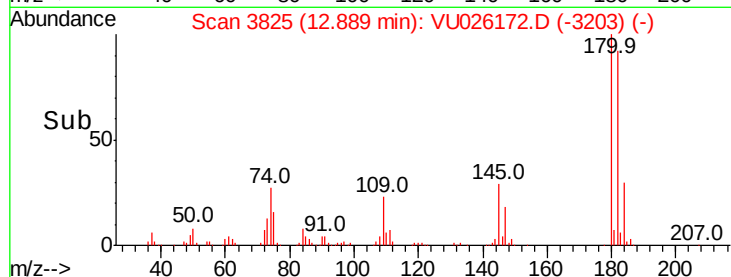
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

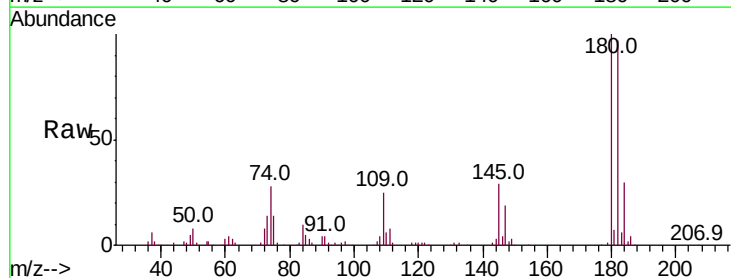
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 55.397 ug/L
 RT: 13.51 min Scan# 4017
 Delta R.T. -0.00 min
 Lab File: VU026172.D
 Acq: 16 Aug 2018 10:10

Tgt Ion:	180	Resp:	130588
Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.8	115.2
145	29.5	23.8	35.6

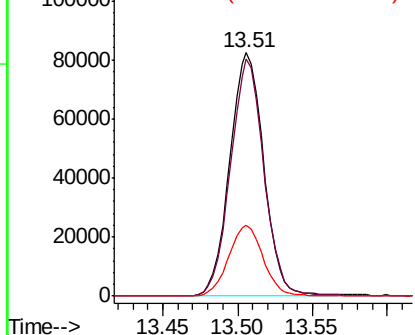
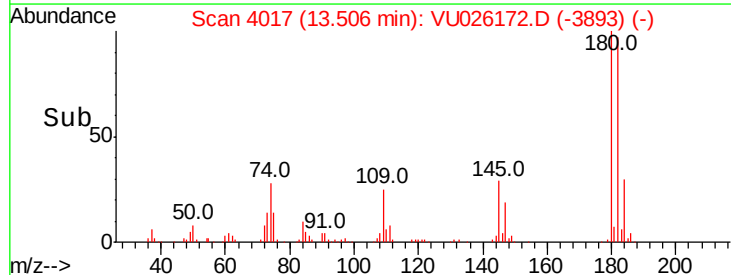


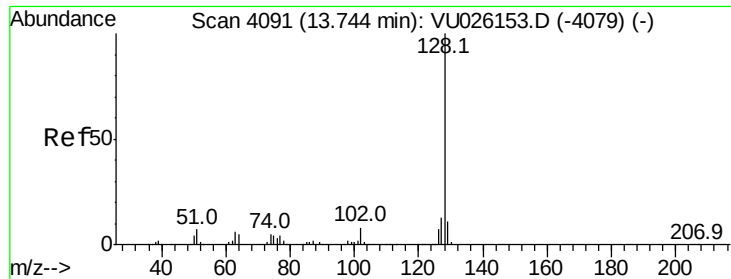
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 56.410 ug/L

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

Instrument :

MSVOA_U

ClientSampleId :

VSTD05068

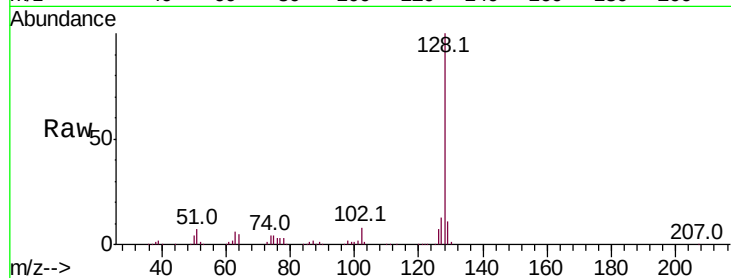
Tot Ion:128 Resp: 378435

Ion Ratio Lower Upper

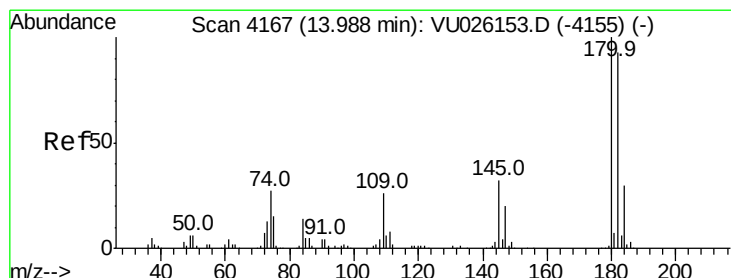
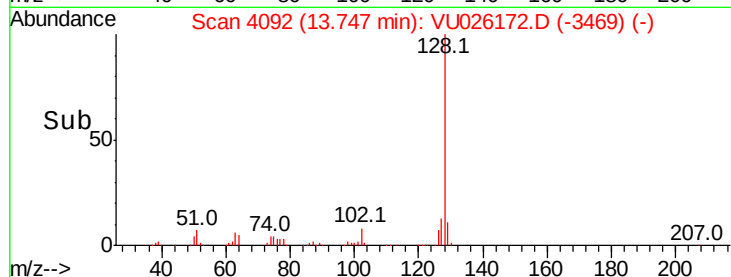
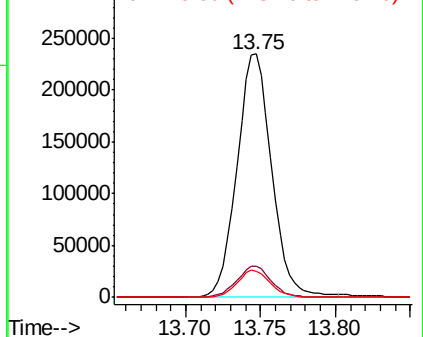
128 100

127 12.8 10.3 15.5

129 10.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 57.328 ug/L

RT: 13.99 min Scan# 4168

Delta R.T. 0.00 min

Lab File: VU026172.D

Acq: 16 Aug 2018 10:10

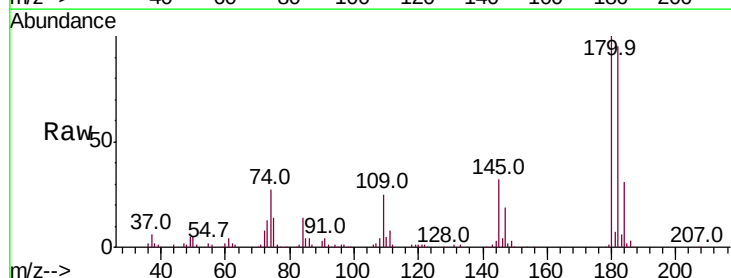
Tgt Ion:180 Resp: 144907

Ion Ratio Lower Upper

180 100

182 94.6 77.1 115.7

145 31.5 25.1 37.7



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

