

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082318\
 Data File : VU026302.D
 Acq On : 23 Aug 2018 16:37
 Operator : MD/SY
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 24 01:17:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082218WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 24 01:14:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	306249	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	302630	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	162646	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	74085	39.66	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.32%
7) Chloroethane-d5	1.68	69	67718	44.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.92%
11) 1,1-Dichloroethene-d2	2.27	63	167364	45.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.18%
21) 2-Butanone-d5	4.18	46	160954	107.96	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.96%
24) Chloroform-d	4.65	84	208276	50.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.04%
26) 1,2-Dichloroethane-d4	5.31	65	130406	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.26%
32) Benzene-d6	5.34	84	383639	47.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.76%
36) 1,2-Dichloropropane-d6	6.34	67	125894	48.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.86%
41) Toluene-d8	7.57	98	365032	47.17	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.34%
43) trans-1,3-Dichloropropene-	7.85	79	63621	47.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.74%
47) 2-Hexanone-d5	8.31	63	116027	104.43	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.43%
57) 1,1,2,2-Tetrachloroethane-	10.44	84	192957	50.15	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.30%
64) 1,2-Dichlorobenzene-d4	11.86	152	163216	47.29	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.58%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	129281	53.761	ug/L 99
3) Chloromethane	1.33	50	121303	54.713	ug/L 98
5) Vinyl chloride	1.40	62	119247	53.384	ug/L 97
6) Bromomethane	1.63	94	69154	49.790	ug/L 100
8) Chloroethane	1.70	64	71160	55.551	ug/L 98
9) Trichlorofluoromethane	1.89	101	175685	55.529	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	97001	55.254	ug/L 99
12) 1,1-Dichloroethene	2.28	96	89166	55.319	ug/L 92
13) Acetone	2.32	43	115693	100.271	ug/L 99
14) Carbon disulfide	2.48	76	325084	52.571	ug/L 100
15) Methyl Acetate	2.62	43	127353	57.353	ug/L 99
16) Methylene chloride	2.70	84	120992	55.780	ug/L 98
17) trans-1,2-Dichloroethene	2.99	96	107946	54.332	ug/L 99
18) Methyl tert-butyl Ether	3.00	73	333184	55.979	ug/L 99
19) 1,1-Dichloroethane	3.45	63	206443	57.060	ug/L 97
20) cis-1,2-Dichloroethene	4.23	96	120810	55.089	ug/L 96
22) 2-Butanone	4.27	43	171049	110.806	ug/L 98

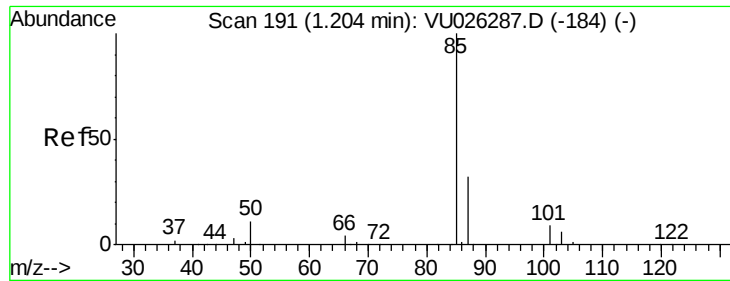
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU082318\
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 Acq On : 23 Aug 2018 16:37
 Operator : MD/SY
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 Quant Title : VOC Analysis
 QLast Update : Fri Aug 24 01:14:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	65794	56.099	ug/L	96
25) Chloroform	4.68	83	217983	56.437	ug/L	100
27) 1,2-Dichloroethane	5.41	62	174139	56.598	ug/L	99
29) Cyclohexane	5.00	56	171064	55.119	ug/L	99
30) 1,1,1-Trichloroethane	4.92	97	192835	54.842	ug/L	99
31) Carbon tetrachloride	5.14	117	178502	53.997	ug/L	100
33) Benzene	5.39	78	454612	55.101	ug/L	100
34) Trichloroethene	6.19	95	117820	54.004	ug/L	99
35) Methylcyclohexane	6.42	83	185650	55.648	ug/L	100
37) 1,2-Dichloropropane	6.44	63	126261	55.996	ug/L	98
38) Bromodichloromethane	6.76	83	166109	55.094	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	186925	54.578	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	326070	114.103	ug/L	99
42) Toluene	7.64	91	492871	56.144	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	181098	54.954	ug/L	98
45) 1,1,2-Trichloroethane	8.07	97	116402	54.648	ug/L	96
46) Tetrachloroethene	8.23	164	101482	54.059	ug/L	98
48) 2-Hexanone	8.36	43	259271	112.735	ug/L	99
49) Dibromochloromethane	8.48	129	145027	55.401	ug/L	99
50) 1,2-Dibromoethane	8.59	107	128683	54.736	ug/L	97
51) Chlorobenzene	9.12	112	324997	54.127	ug/L	99
52) Ethylbenzene	9.25	91	538357	56.302	ug/L	99
53) m,p-Xylene	9.38	106	210977	57.086	ug/L	97
54) o-xylene	9.78	106	206340	57.239	ug/L	98
55) Styrene	9.80	104	360301	58.553	ug/L	98
56) Isopropylbenzene	10.17	105	533756	57.075	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.46	83	203231	56.375	ug/L	100
59) 1,2,3-Trichloropropane	10.50	75	155475	55.310	ug/L	99
61) Bromoform	9.96	173	109647	54.420	ug/L	100
62) 1,3-Dichlorobenzene	11.42	146	255631	53.318	ug/L	97
63) 1,4-Dichlorobenzene	11.51	146	270027	53.302	ug/L	99
65) 1,2-Dichlorobenzene	11.88	146	277453	55.019	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.66	75	46421	55.104	ug/L	99
67) 1,3,5-Trichlorobenzene	12.89	180	203810	54.154	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	174609	53.148	ug/L	99
69) Naphthalene	13.74	128	552700	56.471	ug/L	99
70) 1,2,3-Trichlorobenzene	13.99	180	194202	55.482	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 53.761 ug/L

RT: 1.20 min Scan# 191

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

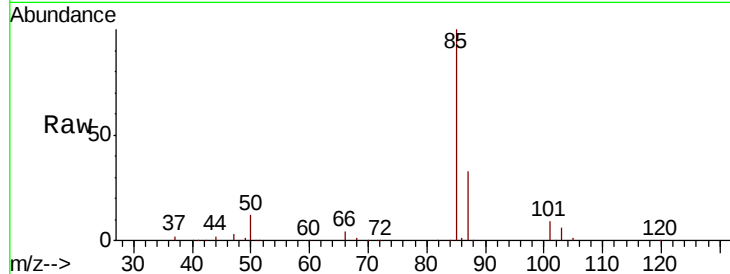
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 129281

Ion Ratio Lower Upper

85 100

87 33.0 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

150000

100000

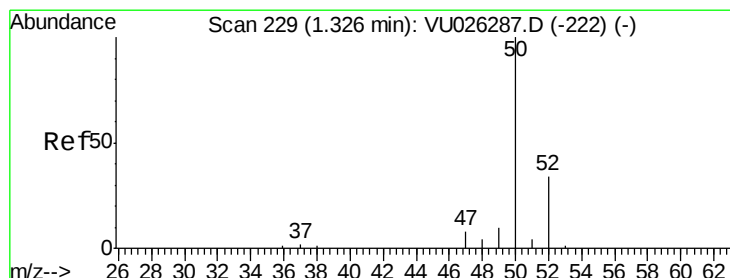
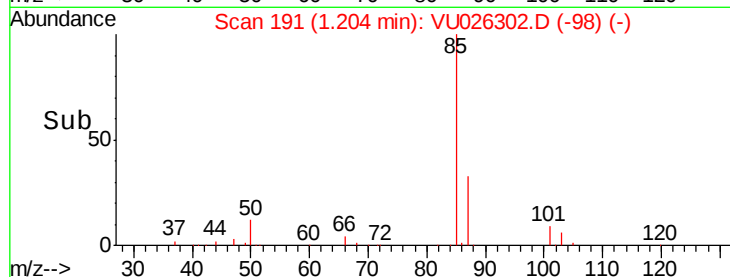
50000

0

1.20

1.25

Time-->



#3

Chloromethane

Concen: 54.713 ug/L

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU026302.D

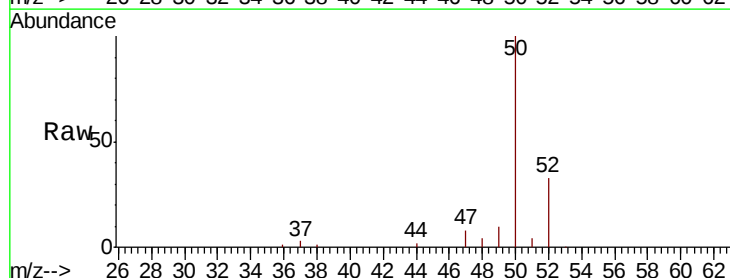
Acq: 23 Aug 2018 16:37

Tgt Ion: 50 Resp: 121303

Ion Ratio Lower Upper

50 100

52 33.2 22.6 42.0



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

100000

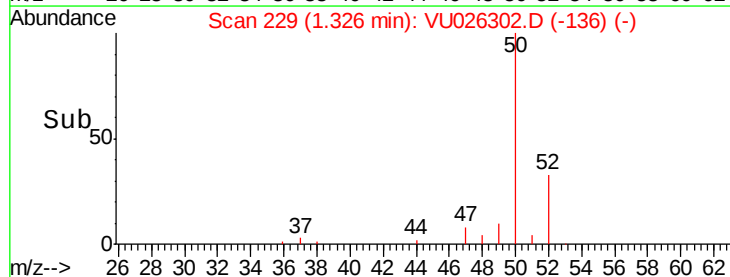
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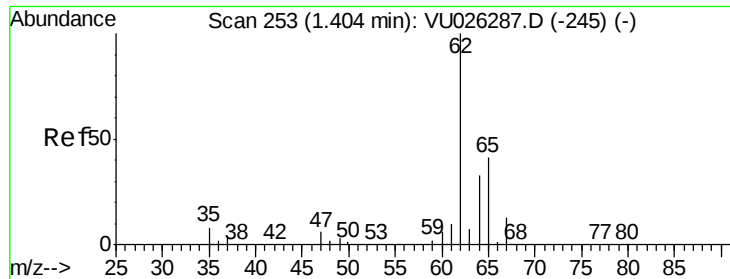
0

1.33

1.40

Time-->





#5

Vinyl chloride

Concen: 53.384 ug/L

RT: 1.40 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

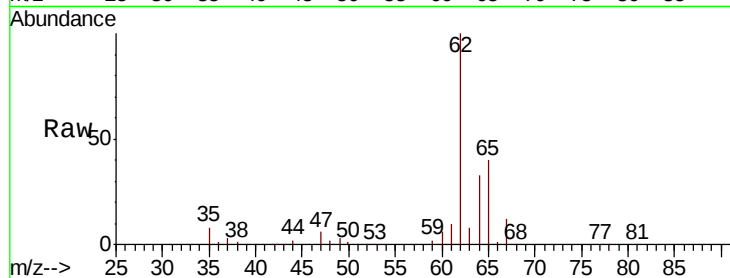
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 62 Resp: 119247

Ion Ratio Lower Upper

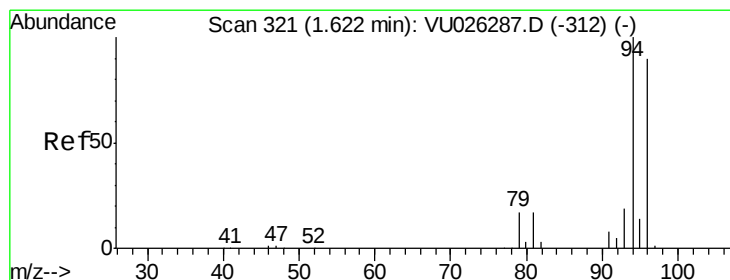
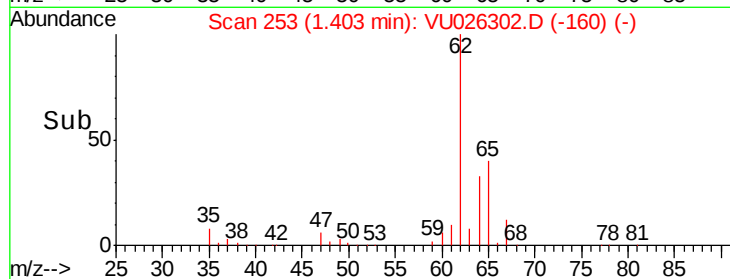
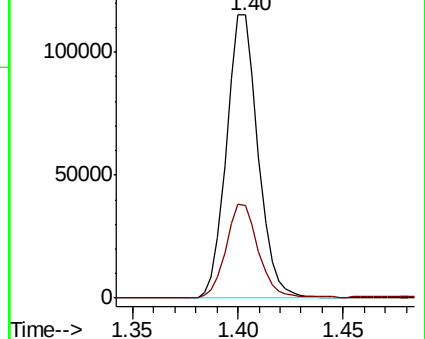
62 100

64 32.6 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 49.790 ug/L

RT: 1.63 min Scan# 322

Delta R.T. 0.00 min

Lab File: VU026302.D

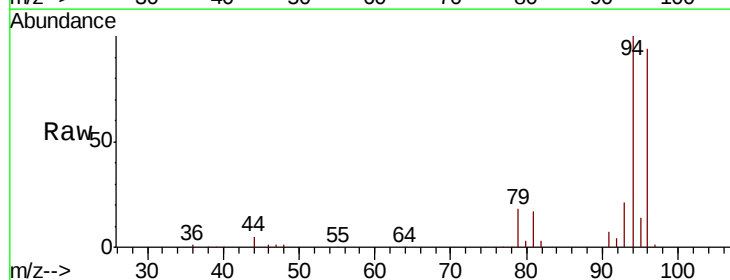
Acq: 23 Aug 2018 16:37

Tgt Ion: 94 Resp: 69154

Ion Ratio Lower Upper

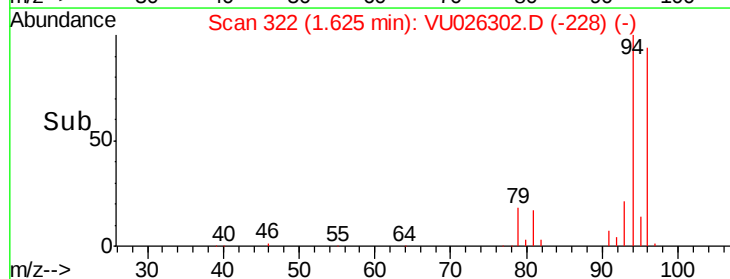
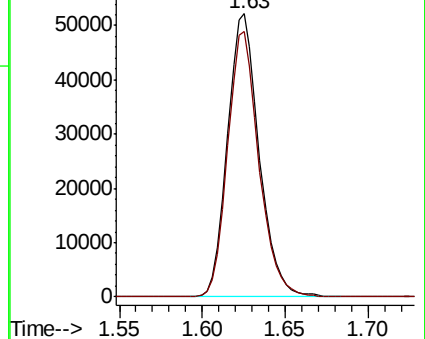
94 100

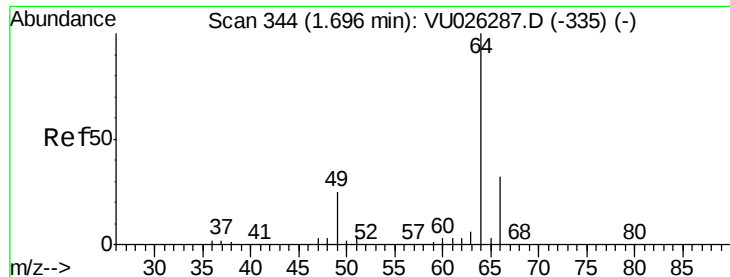
96 93.7 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

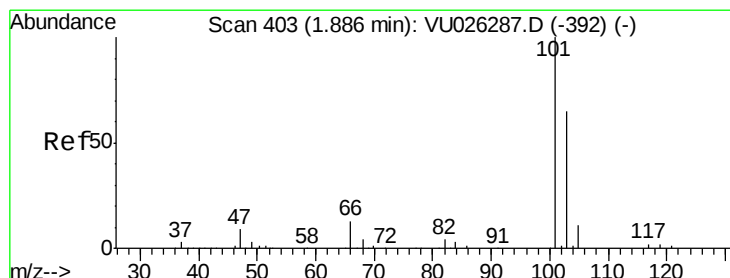
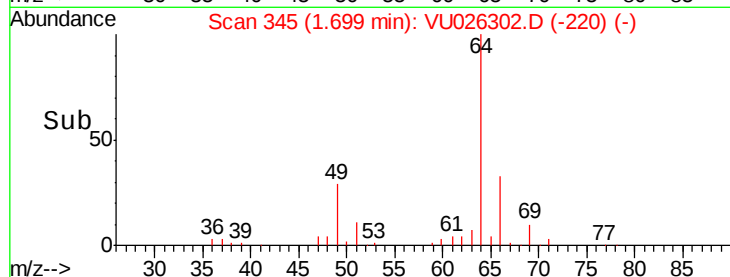
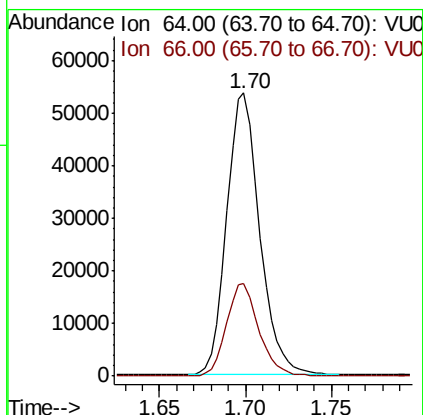
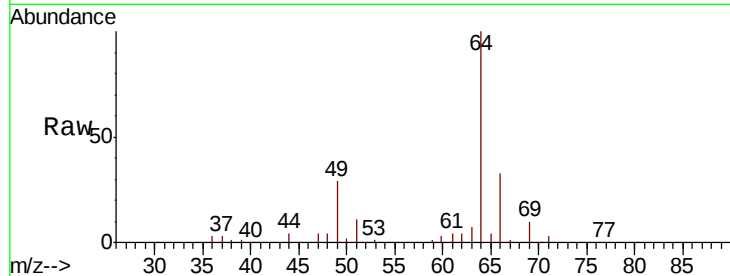




#8
Chloroethane
Concen: 55.551 ug/L
RT: 1.70 min Scan# 345
Delta R.T. 0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

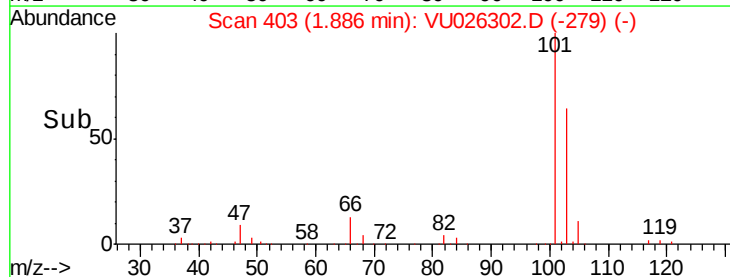
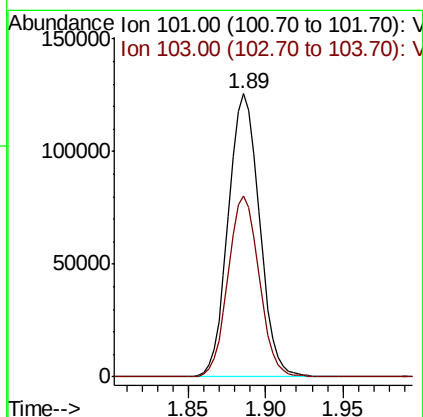
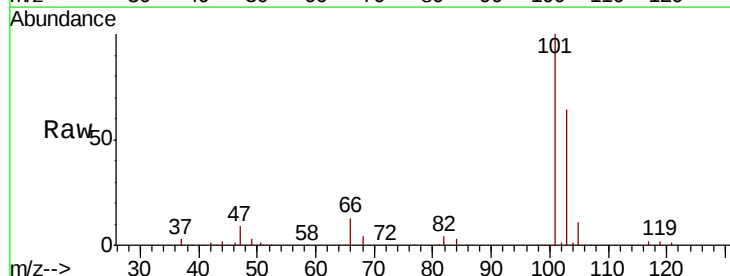
Instrument :
MSVOA_U
ClientSampleId :

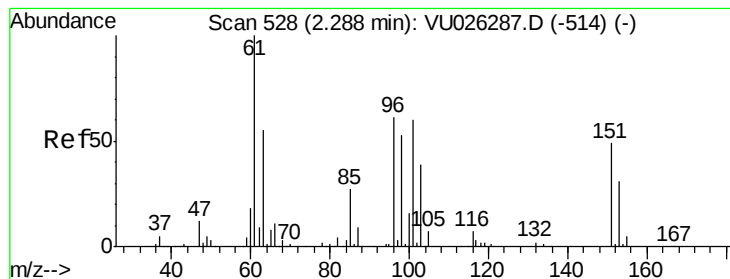
Tot Ion: 64 Resp: 71160
Ion Ratio Lower Upper
64 100
66 32.5 21.9 40.7



#9
Trichlorofluoromethane
Concen: 55.529 ug/L
RT: 1.89 min Scan# 403
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Tgt Ion:101 Resp: 175685
Ion Ratio Lower Upper
101 100
103 63.5 51.7 77.5





#10

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

Concen: 55.254 ug/L

RT: 2.29 min Scan# 528

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

ClientSampleId :

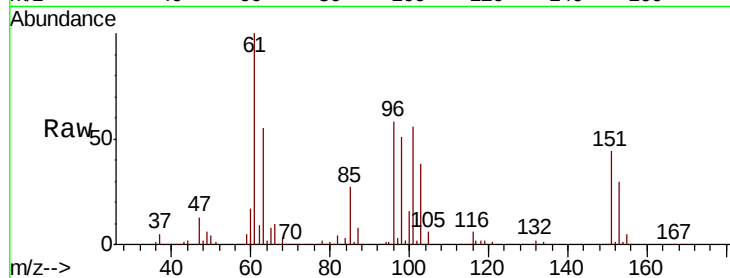
Tot Ion:101 Resp: 97001

Ion Ratio Lower Upper

101 100

85 46.1 35.8 53.6

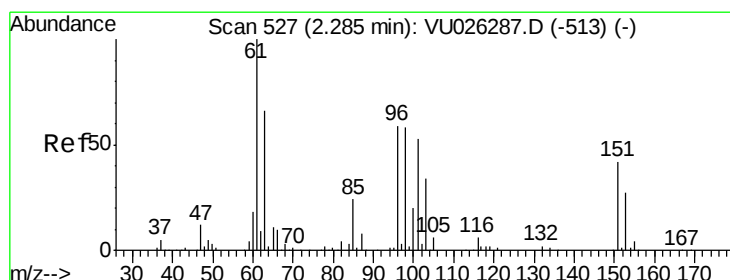
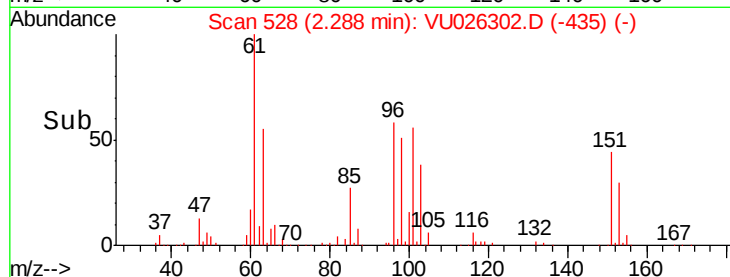
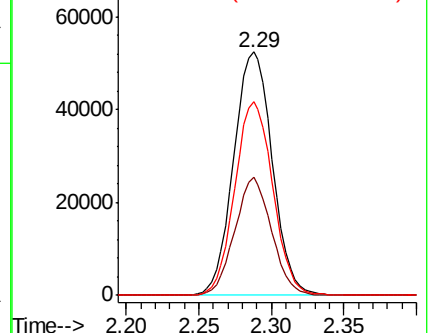
151 78.5 63.3 94.9



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: 55.319 ug/L

RT: 2.28 min Scan# 527

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

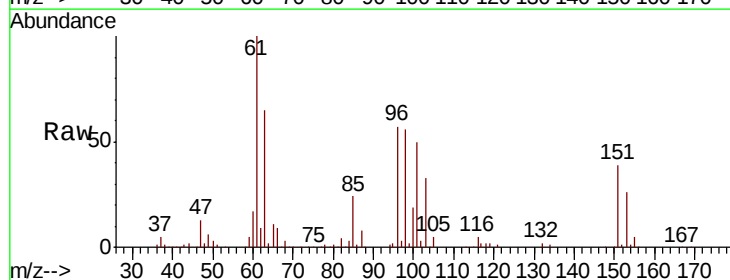
Tgt Ion: 96 Resp: 89166

Ion Ratio Lower Upper

96 100

61 176.3 124.7 231.5

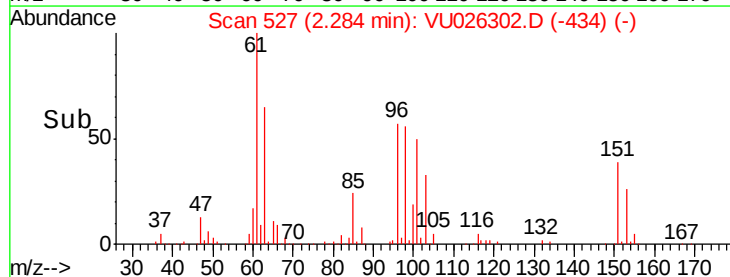
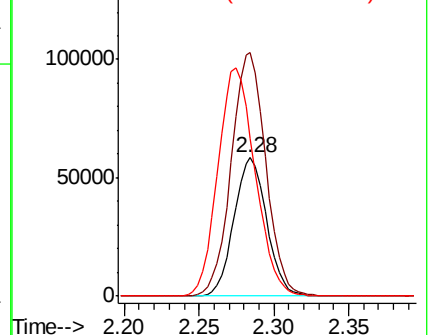
63 114.1 93.7 174.1

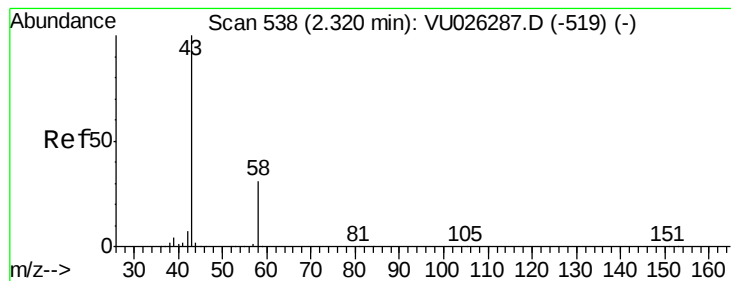


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 100.271 ug/L

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

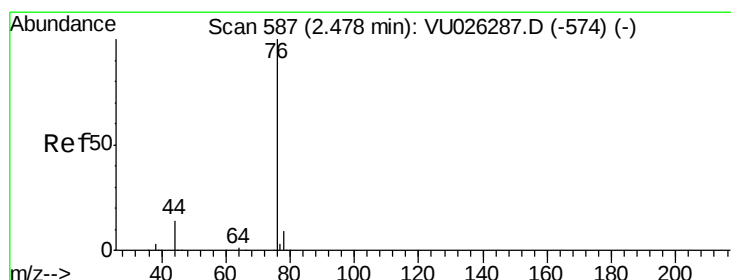
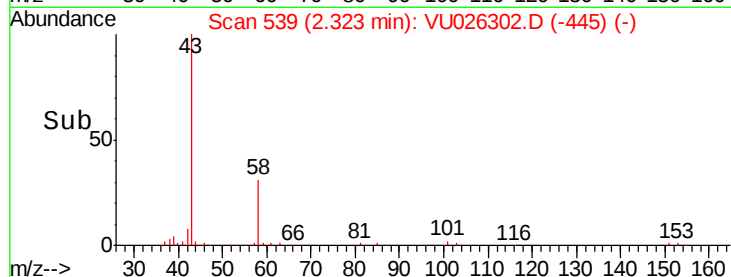
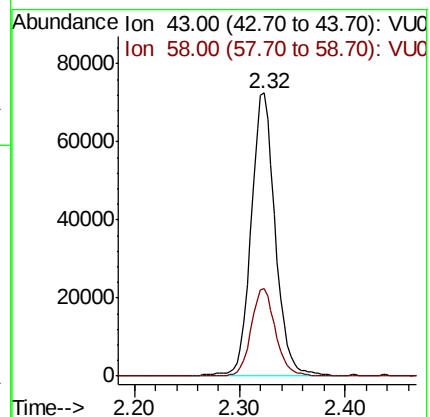
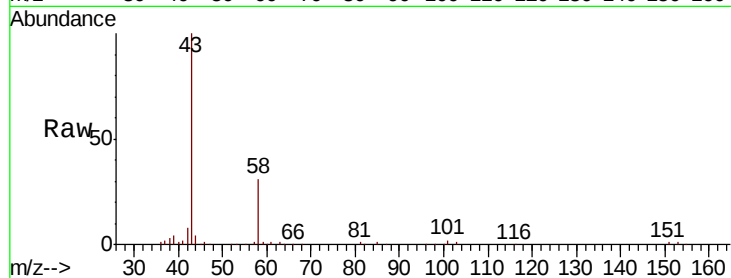
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 115693

Ion Ratio Lower Upper

43 100

58 31.3 0.0 61.2



#14

Carbon disulfide

Concen: 52.571 ug/L

RT: 2.48 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU026302.D

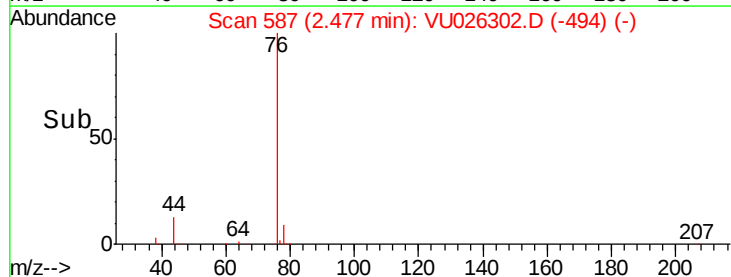
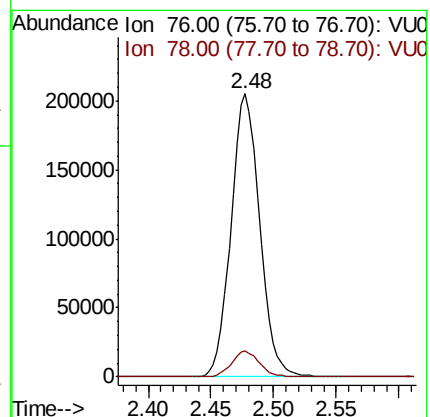
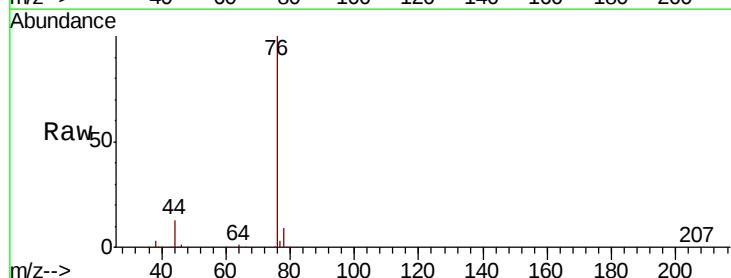
Acq: 23 Aug 2018 16:37

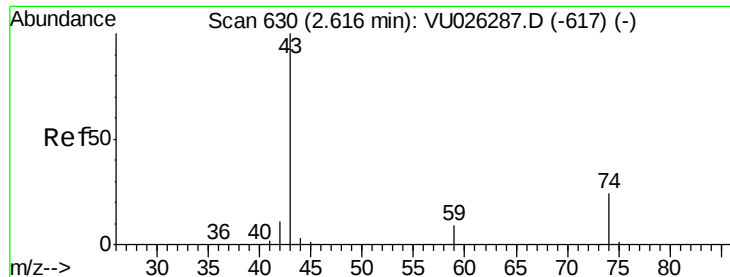
Tgt Ion: 76 Resp: 325084

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8





#15

Methvl Acetate

Concen: 57.353 ug/L

RT: 2.62 min Scan# 630

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

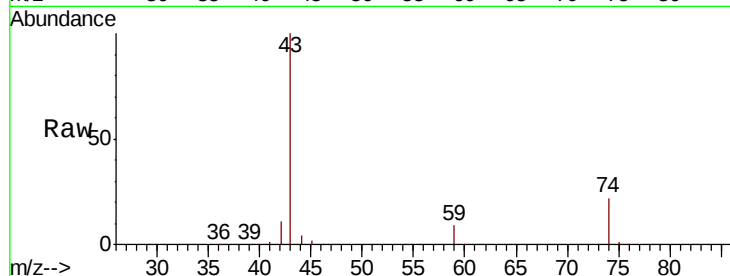
ClientSampleId :

Tot Ion: 43 Resp: 127353

Ion Ratio Lower Upper

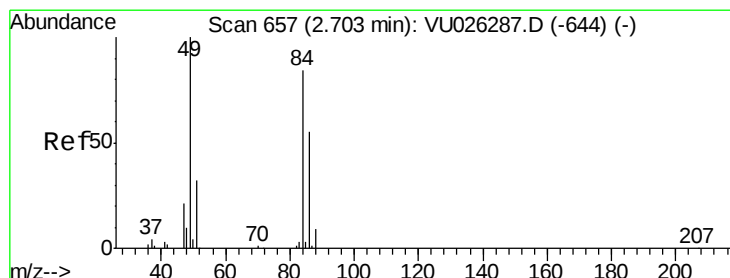
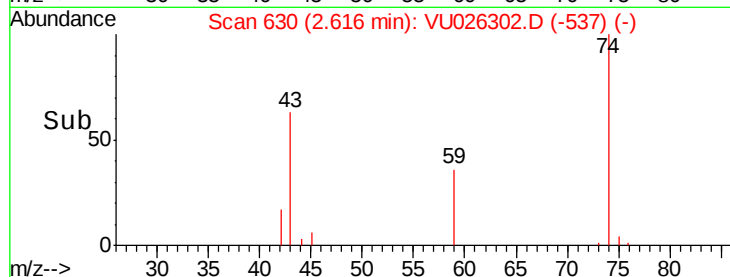
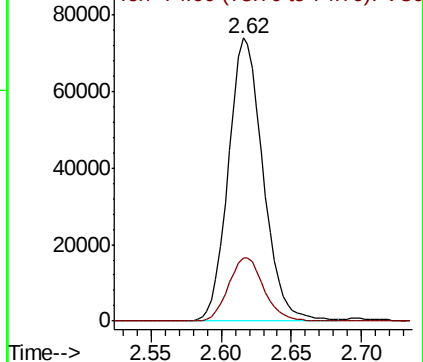
43 100

74 22.7 18.6 27.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 55.780 ug/L

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

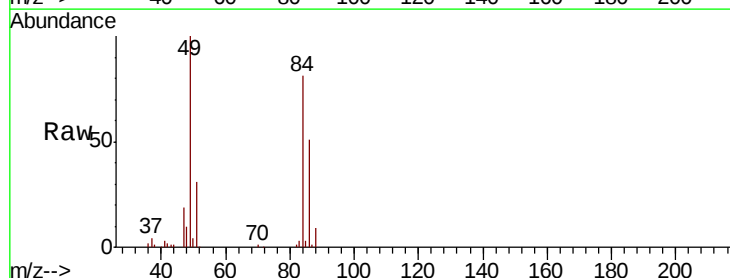
Tgt Ion: 84 Resp: 120992

Ion Ratio Lower Upper

84 100

86 63.1 45.4 84.4

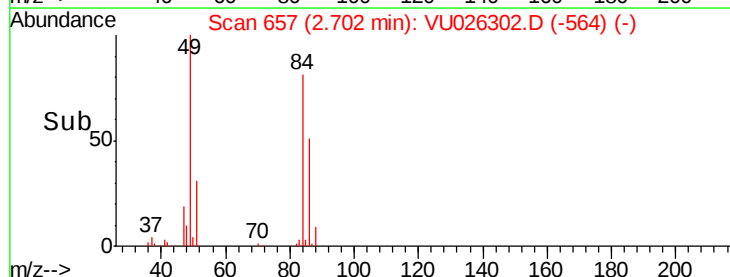
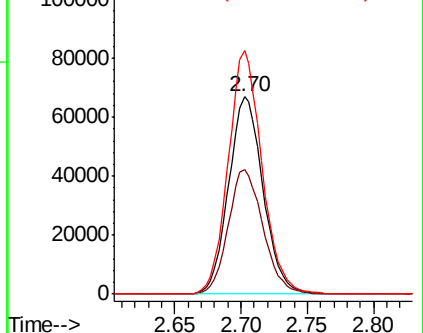
49 123.6 85.3 158.5

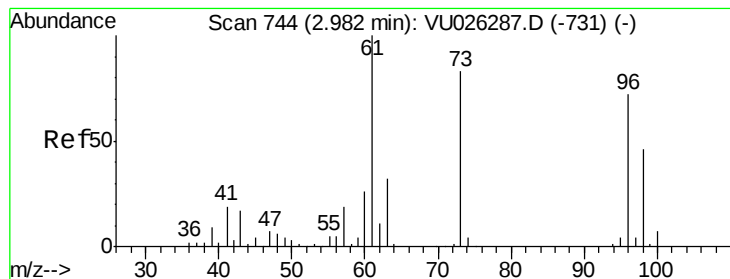


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 54.332 ug/L

RT: 2.99 min Scan# 745

Delta R.T. 0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :
MSVOA_U
ClientSampleId :

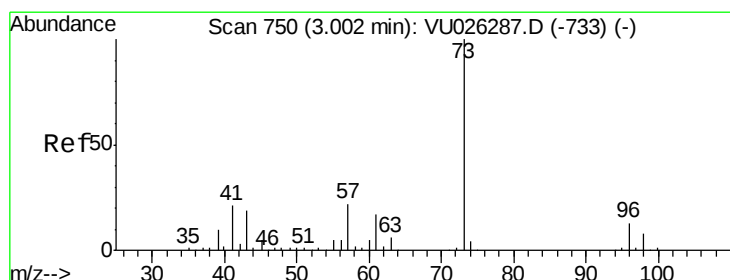
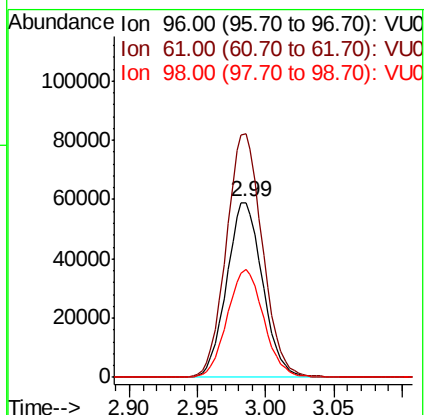
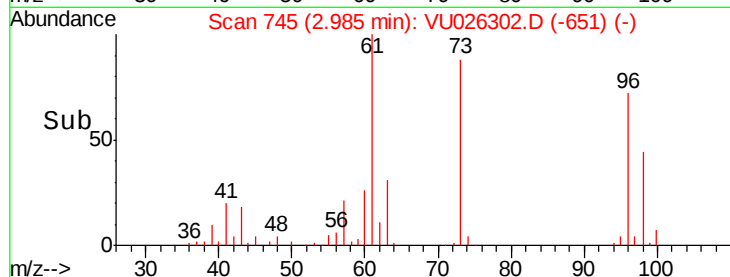
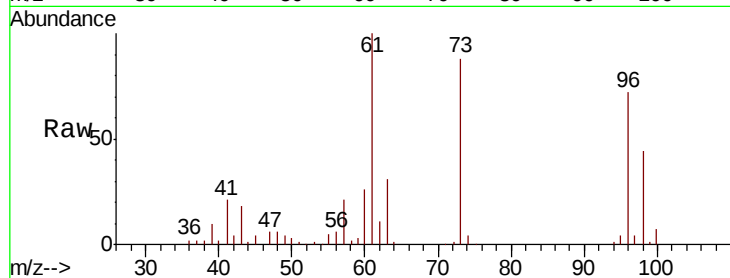
Tot Ion: 96 Resp: 107946

Ion Ratio Lower Upper

96 100

61 139.4 97.9 181.9

98 61.7 45.1 83.7



#18

Methyl tert-butyl Ether

Concen: 55.979 ug/L

RT: 3.00 min Scan# 750

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

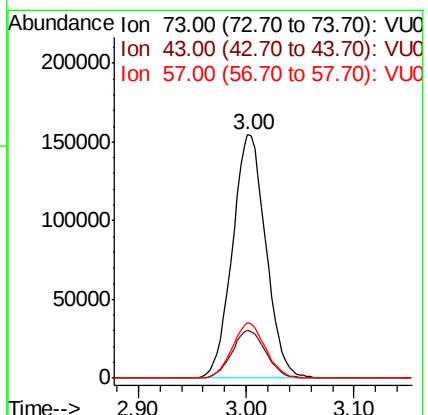
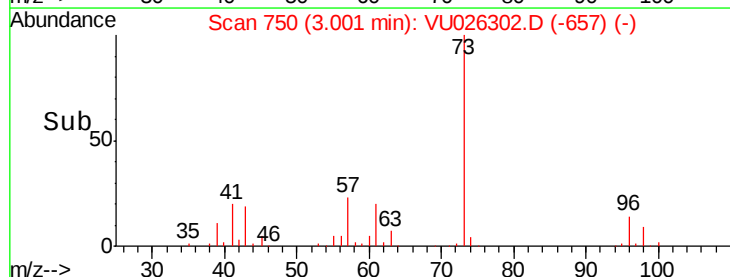
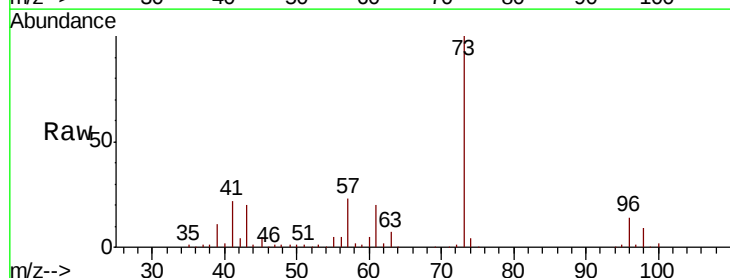
Tgt Ion: 73 Resp: 333184

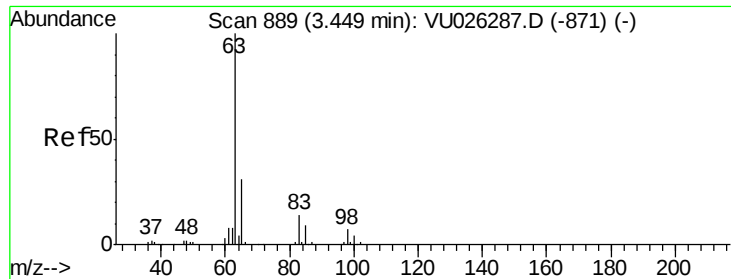
Ion Ratio Lower Upper

73 100

43 20.1 15.7 23.5

57 22.5 17.5 26.3





#19

1,1-Dichloroethane

Concen: 57.060 ug/L

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

ClientSampleId :

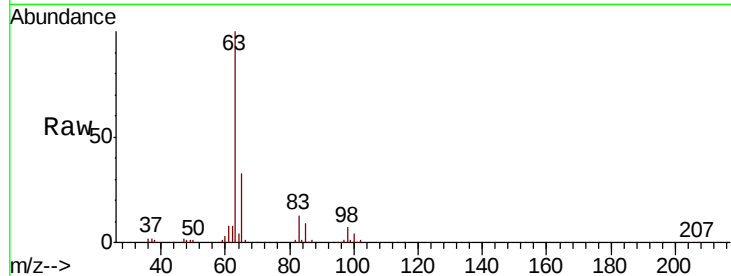
Tot Ion: 63 Resp: 206443

Ion Ratio Lower Upper

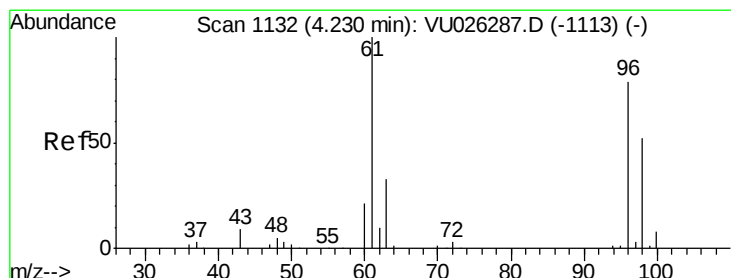
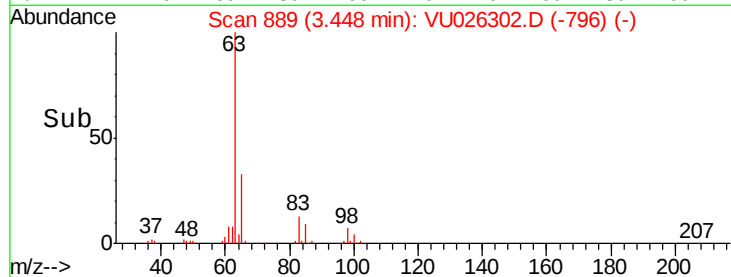
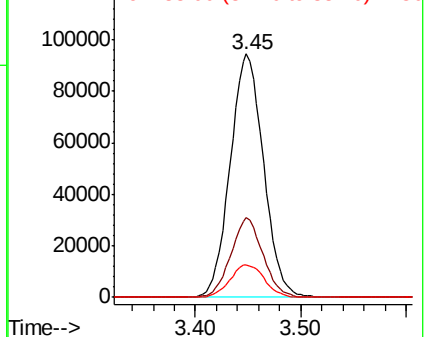
63 100

65 32.7 21.4 39.8

83 13.3 9.2 17.2



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: 55.089 ug/L

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

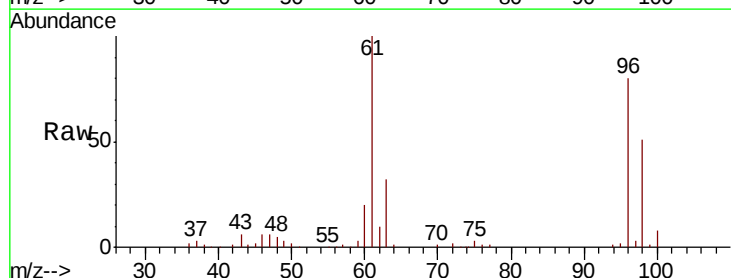
Tgt Ion: 96 Resp: 120810

Ion Ratio Lower Upper

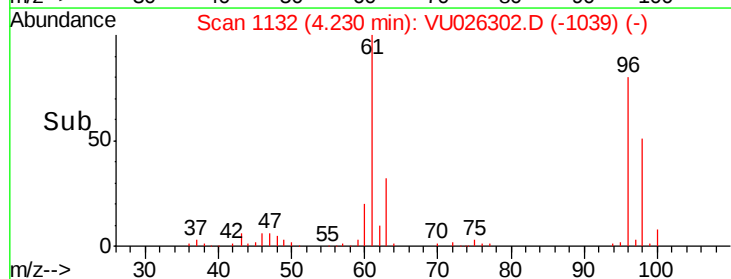
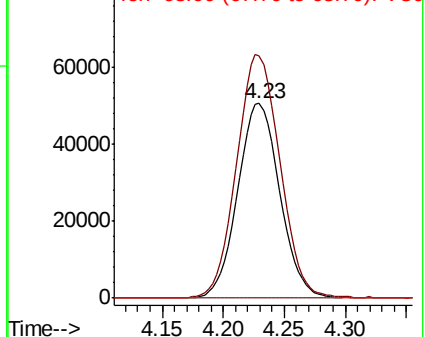
96 100

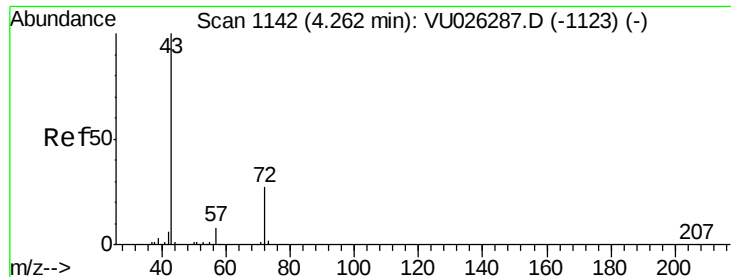
61 124.6 90.3 167.7

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: 110.806 ug/L

RT: 4.27 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

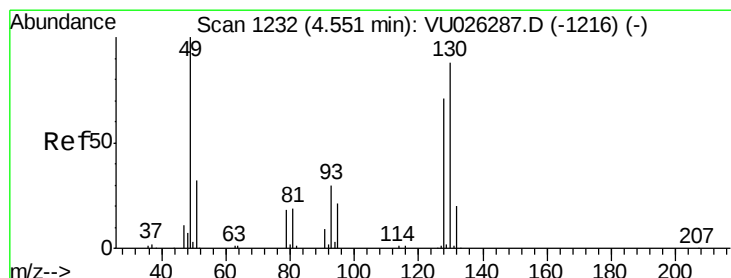
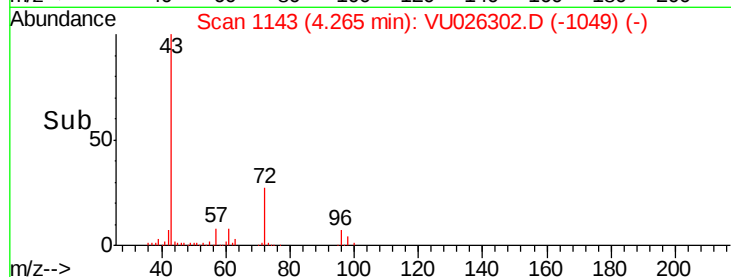
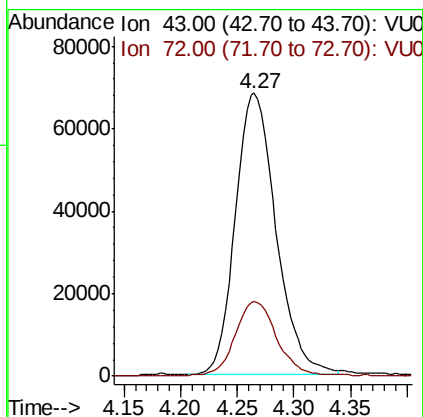
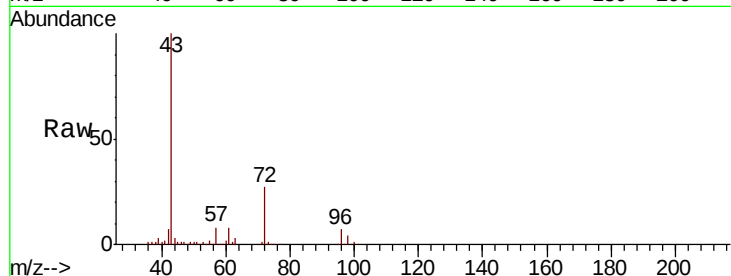
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 171049

Ion Ratio Lower Upper

43 100

72 27.3 14.1 42.3



#23

Bromochloromethane

Concen: 56.099 ug/L

RT: 4.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Tgt Ion:128 Resp: 65794

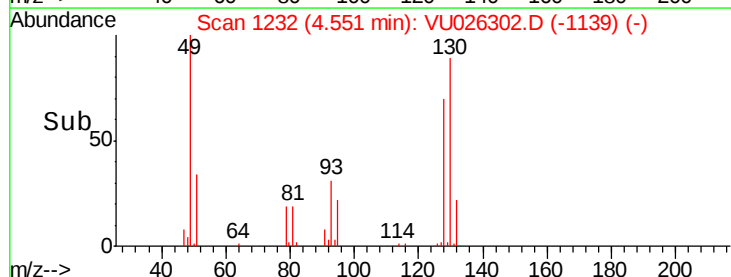
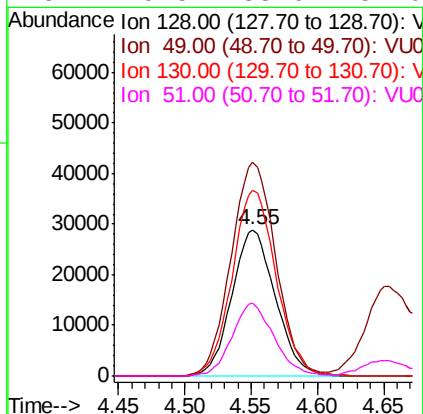
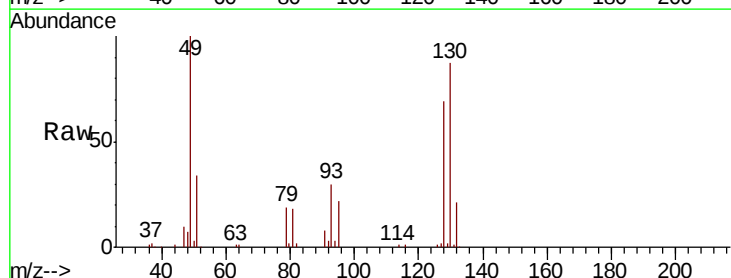
Ion Ratio Lower Upper

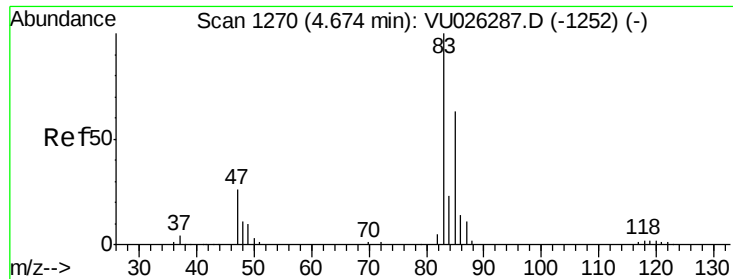
128 100

49 145.8 106.7 198.3

130 126.9 91.7 170.3

51 49.5 38.0 57.0

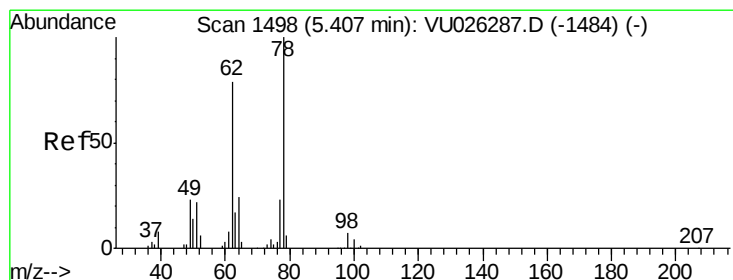
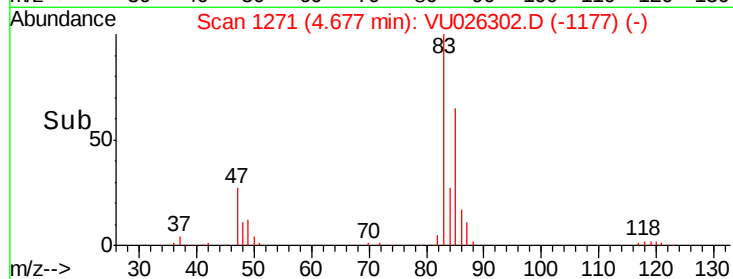
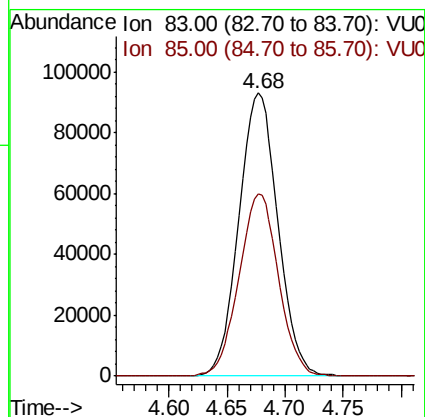
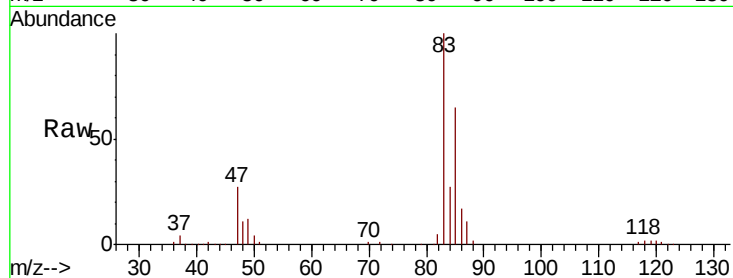




#25
Chloroform
Concen: 56.437 ug/L
RT: 4.68 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

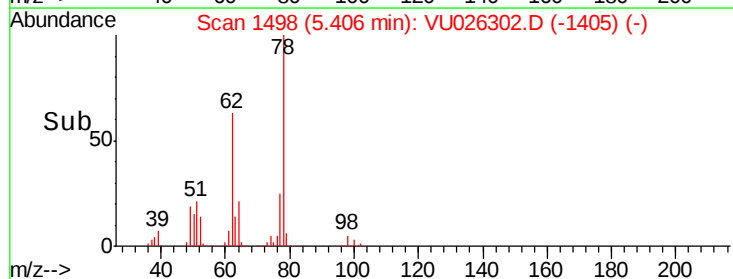
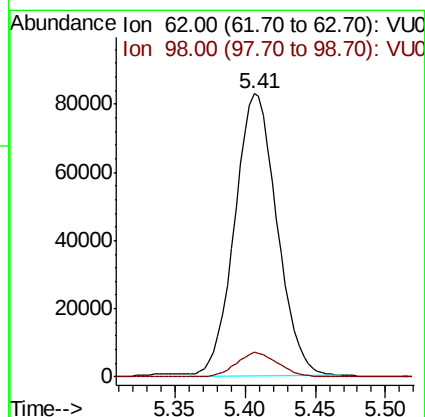
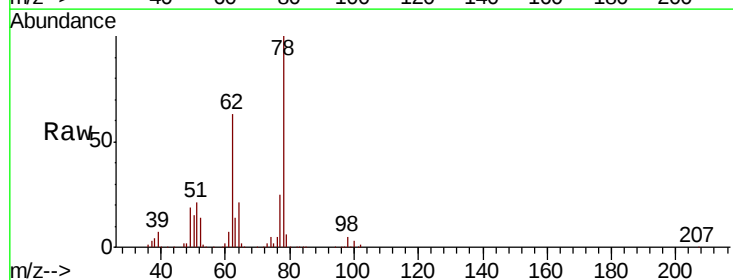
Instrument :
MSVOA_U
ClientSampled :

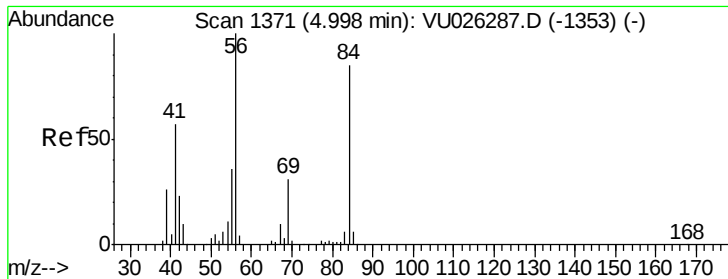
Tot Ion: 83 Resp: 217983
Ion Ratio Lower Upper
83 100
85 64.6 45.0 83.6



#27
1,2-Dichloroethane
Concen: 56.598 ug/L
RT: 5.41 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Tgt Ion: 62 Resp: 174139
Ion Ratio Lower Upper
62 100
98 8.6 7.2 10.8

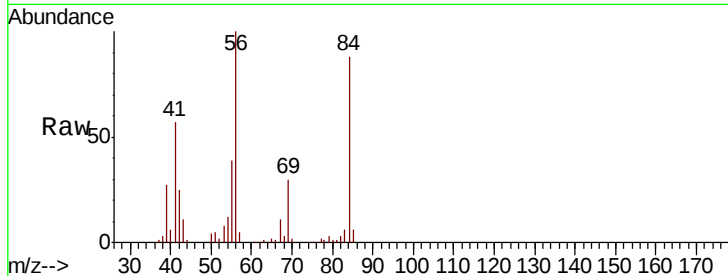




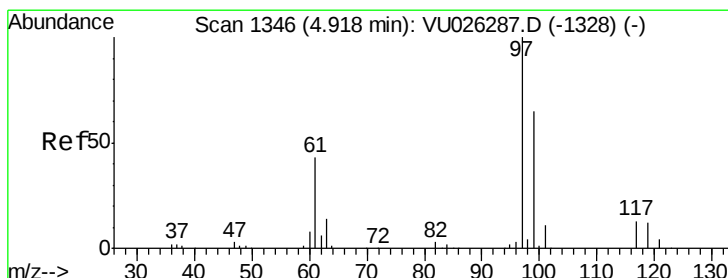
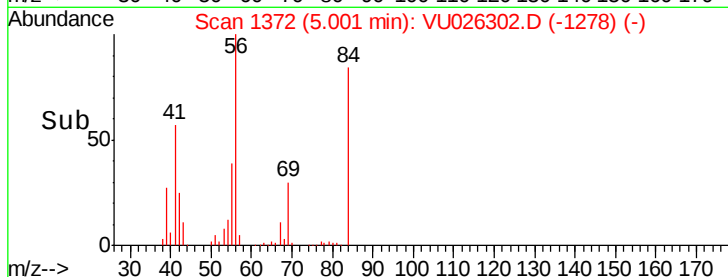
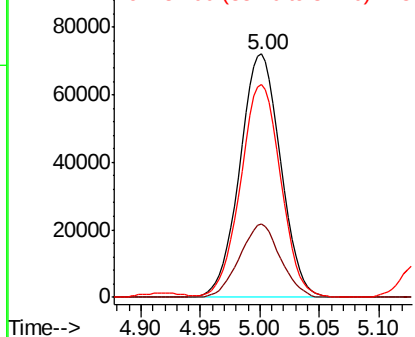
#29
Cyclohexane
Concen: 55.119 ug/L
RT: 5.00 min Scan# 1372
Delta R.T. 0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 171064
Ion Ratio Lower Upper
56 100
69 30.0 24.6 37.0
84 86.6 70.1 105.1

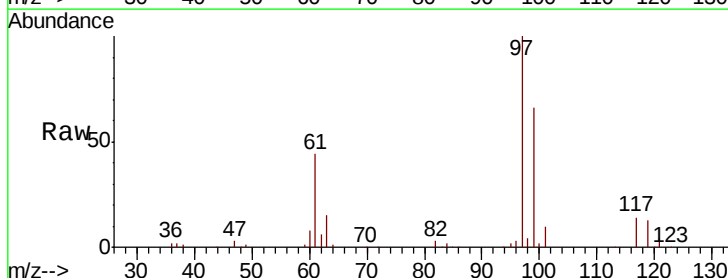


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

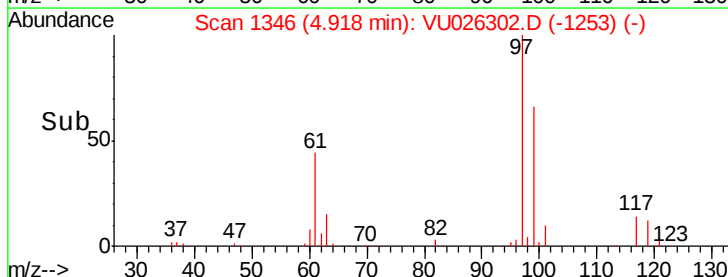
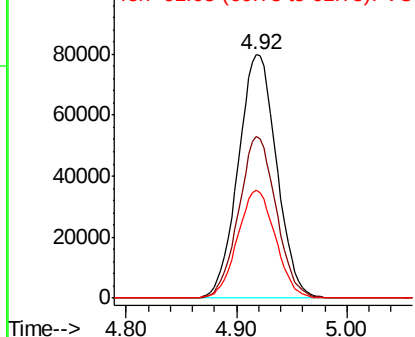


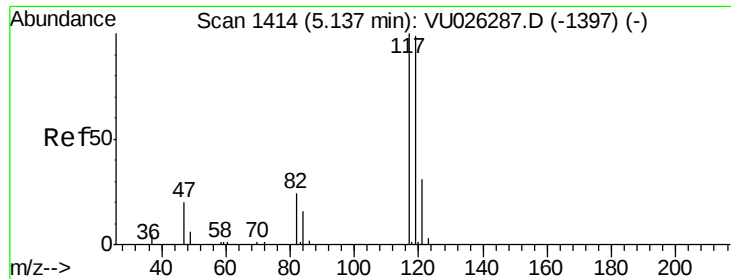
#30
1,1,1-Trichloroethane
Concen: 54.842 ug/L
RT: 4.92 min Scan# 1346
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Tgt Ion: 97 Resp: 192835
Ion Ratio Lower Upper
97 100
99 64.7 52.0 78.0
61 43.8 34.2 51.4



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0



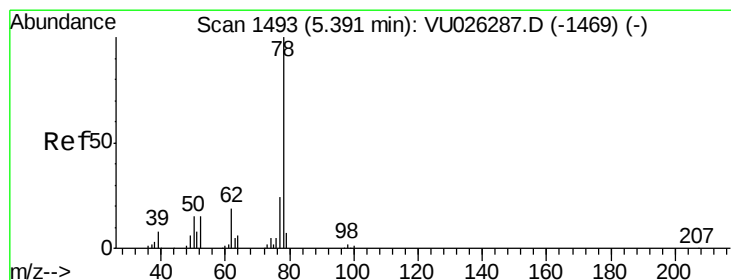
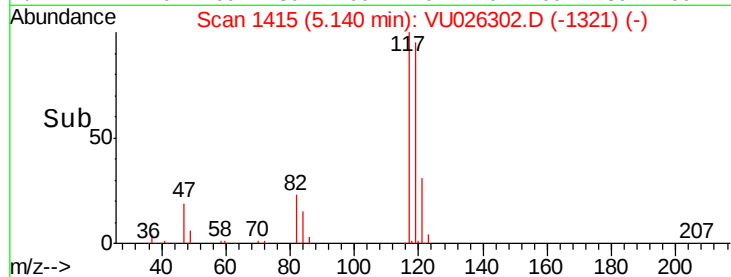
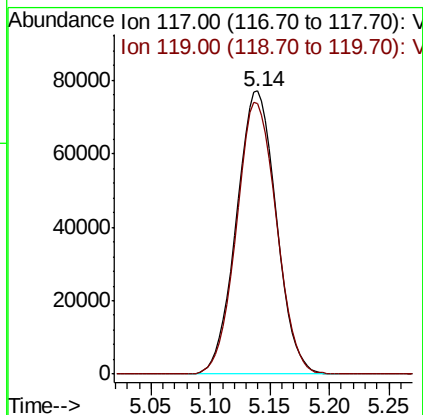
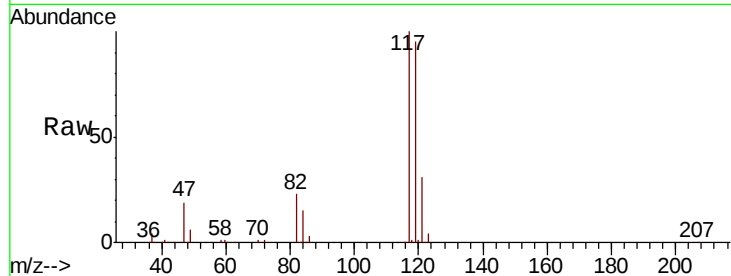


#31

Carbon tetrachloride
 Concen: 53.997 ug/L
 RT: 5.14 min Scan# 1415
 Delta R.T. 0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Instrument :
 MSVOA_U
 ClientSampleId :

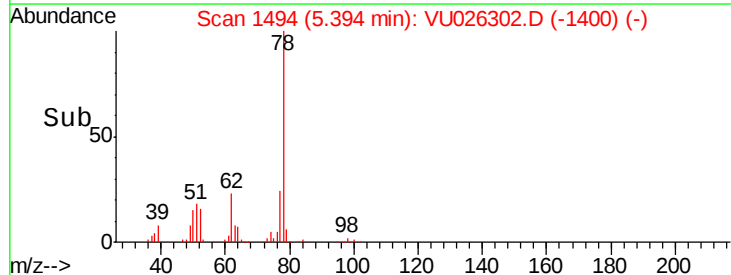
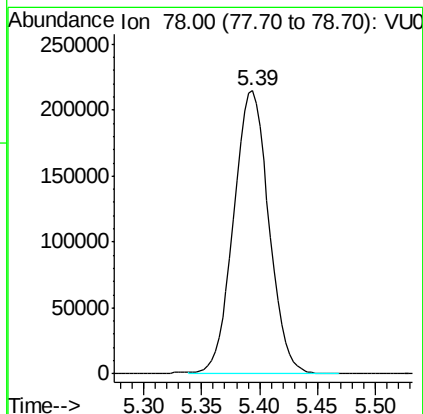
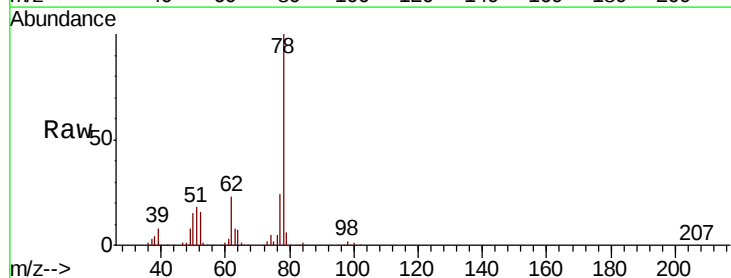
Tot Ion:117 Resp: 178502
 Ion Ratio Lower Upper
 117 100
 119 96.5 77.2 115.8

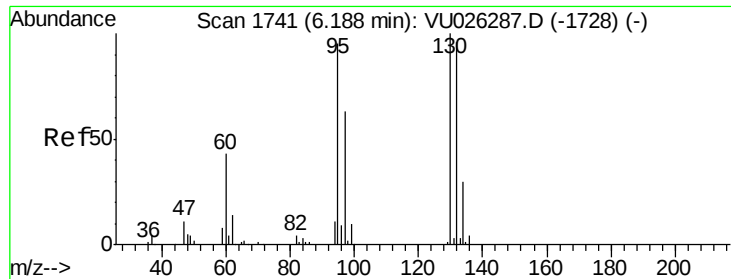


#33

Benzene
 Concen: 55.101 ug/L
 RT: 5.39 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion: 78 Resp: 454612

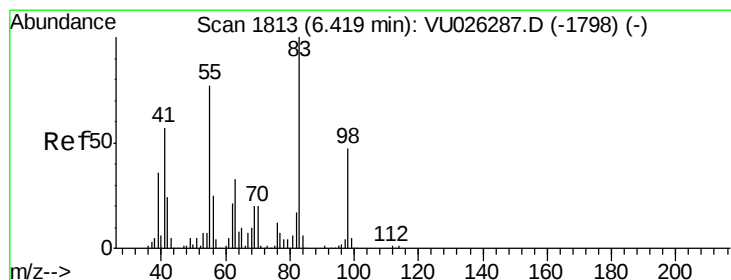
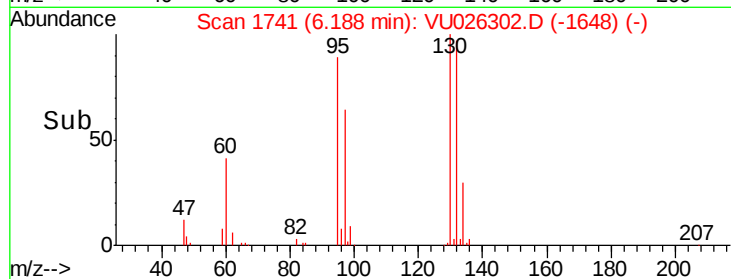
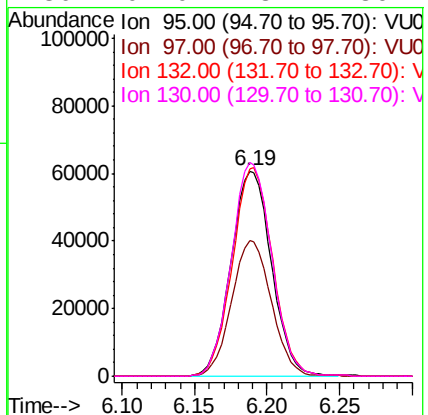
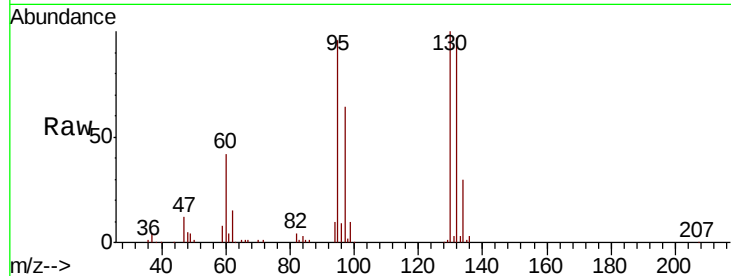




#34
 Trichloroethene
 Concen: 54.004 ug/L
 RT: 6.19 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

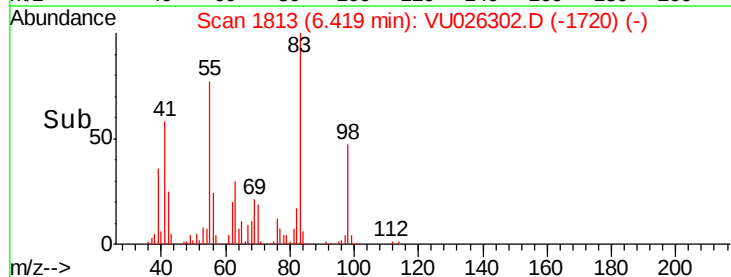
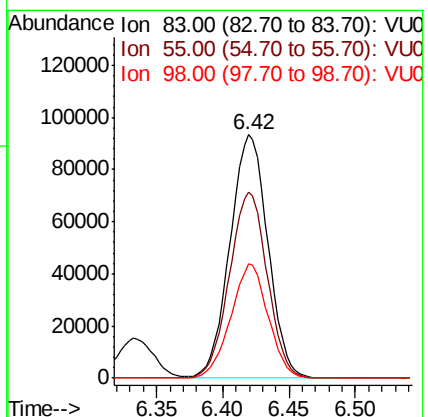
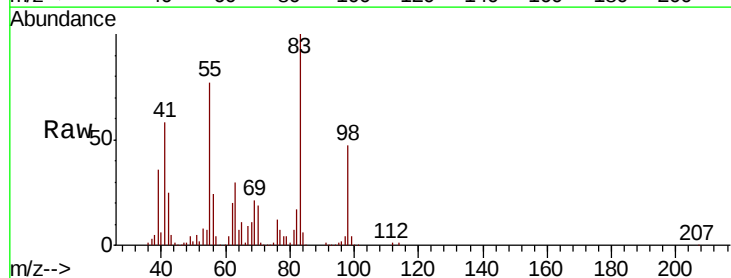
Instrument :
 MSVOA_U
 ClientSampled :

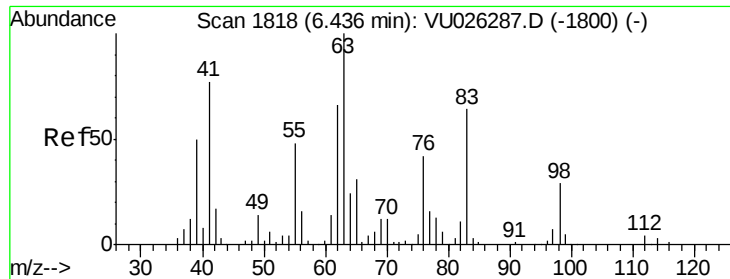
Tot Ion:	95	Resp:	117820
Ion	Ratio	Lower	Upper
95	100		
97	66.3	47.2	87.6
132	101.3	70.2	130.4
130	104.0	73.4	136.4



#35
 Methylcyclohexane
 Concen: 55.648 ug/L
 RT: 6.42 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion:	83	Resp:	185650
Ion	Ratio	Lower	Upper
83	100		
55	76.4	60.6	91.0
98	46.1	36.8	55.2

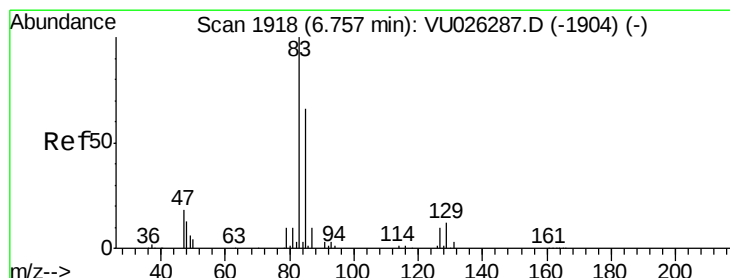
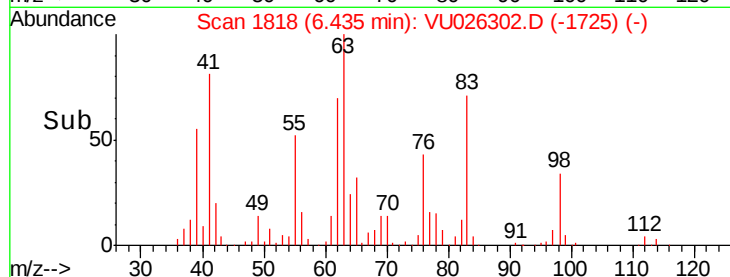
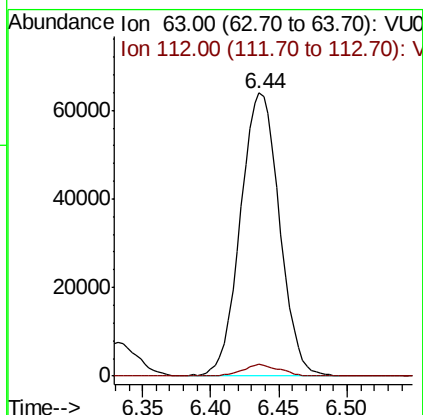
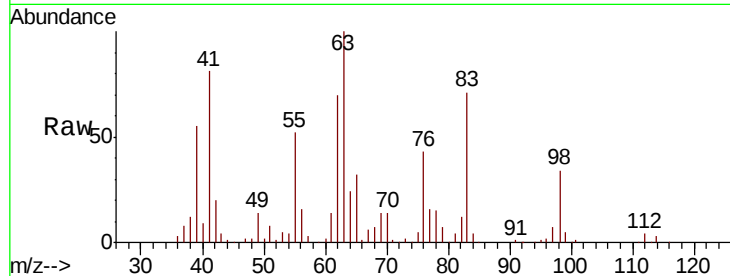




#37
 1,2-Dichloropropane
 Concen: 55.996 ug/L
 RT: 6.44 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

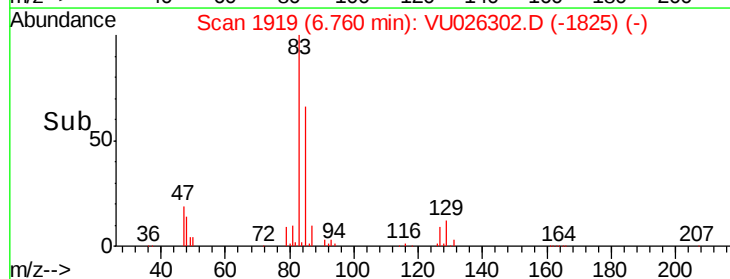
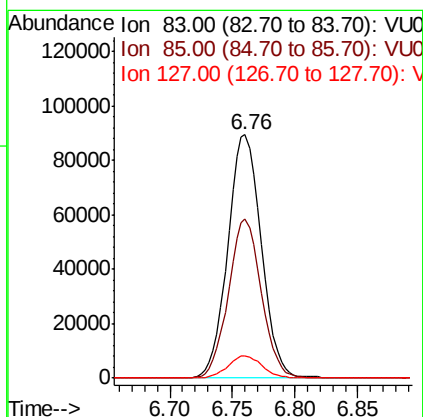
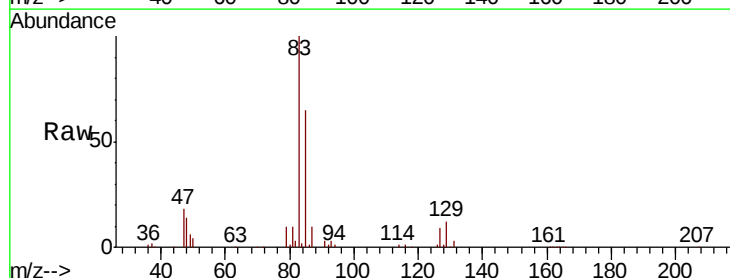
Instrument :
 MSVOA_U
 ClientSampled :

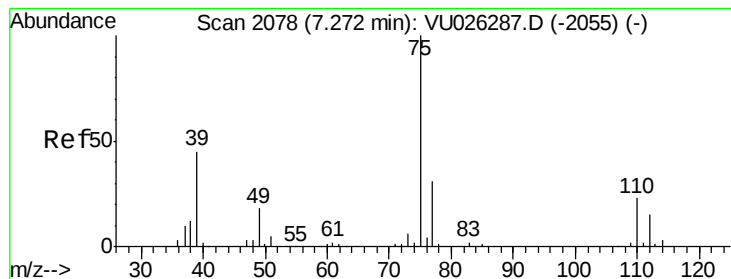
Tot Ion: 63 Resp: 126261
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.4 5.2



#38
 Bromodichloromethane
 Concen: 55.094 ug/L
 RT: 6.76 min Scan# 1919
 Delta R.T. 0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion: 83 Resp: 166109
 Ion Ratio Lower Upper
 83 100
 85 65.2 46.3 86.1
 127 9.1 7.8 11.6



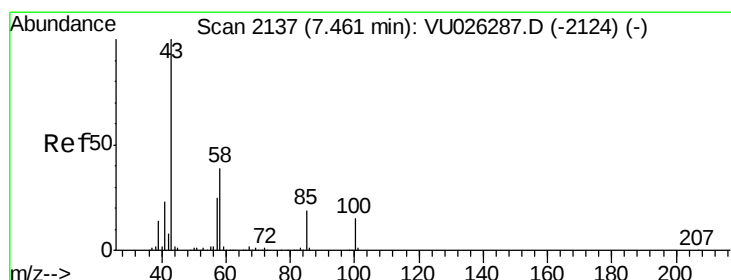
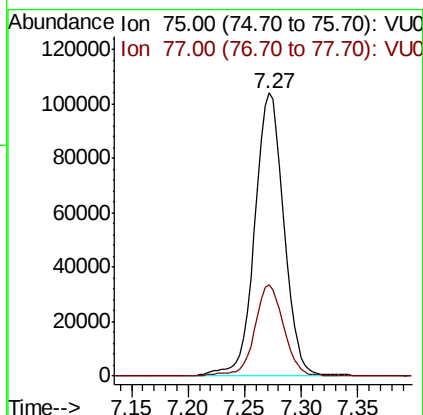
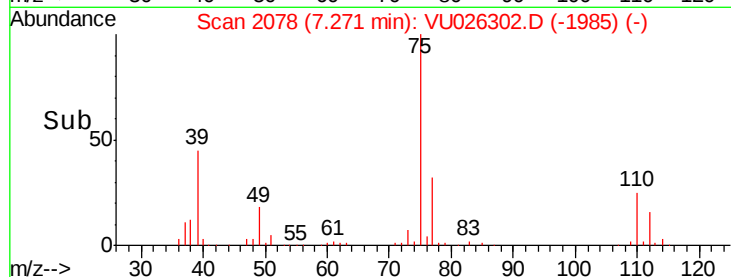
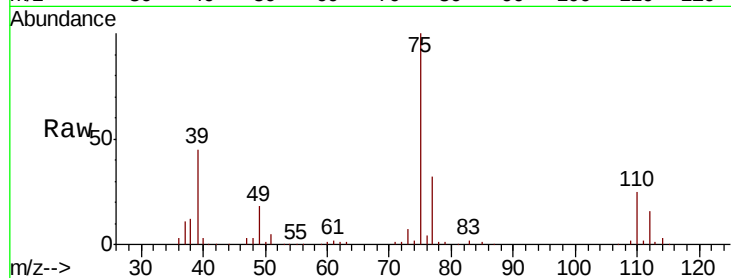


#39

cis-1,3-Dichloropropene
 Concen: 54.578 ug/L
 RT: 7.27 min Scan# 2078
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Instrument :
 MSVOA_U
 ClientSampled :

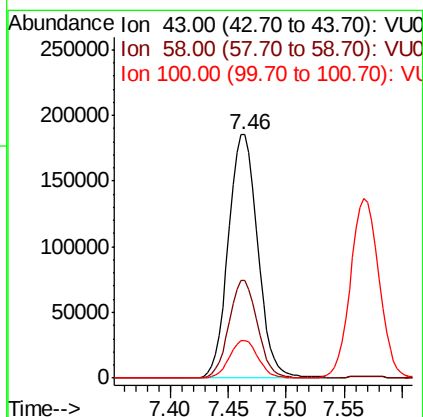
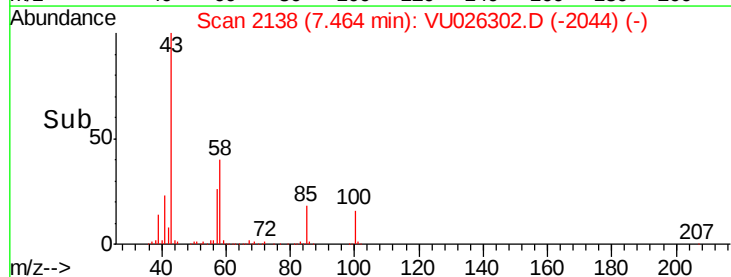
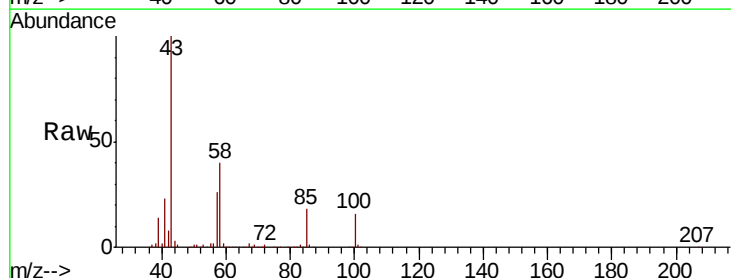
Tot Ion: 75 Resp: 186925
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.0 40.8

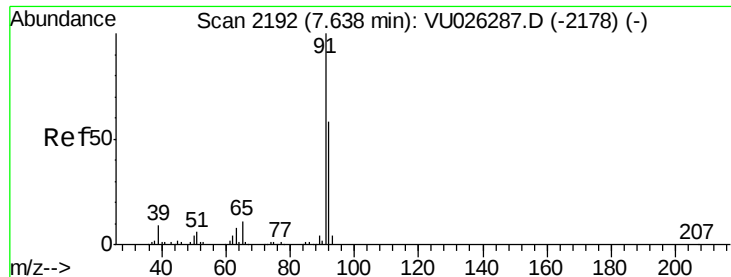


#40

4-Methyl-2-pentanone
 Concen: 114.103 ug/L
 RT: 7.46 min Scan# 2138
 Delta R.T. 0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion: 43 Resp: 326070
 Ion Ratio Lower Upper
 43 100
 58 38.8 31.6 47.4
 100 15.1 12.3 18.5





#42

Toluene

Concen: 56.144 ug/L

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

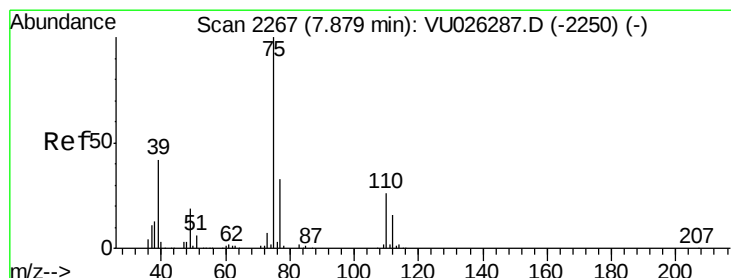
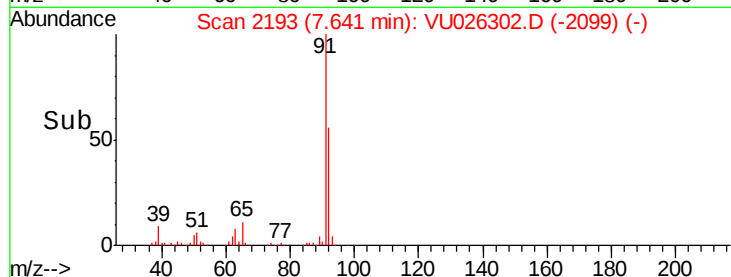
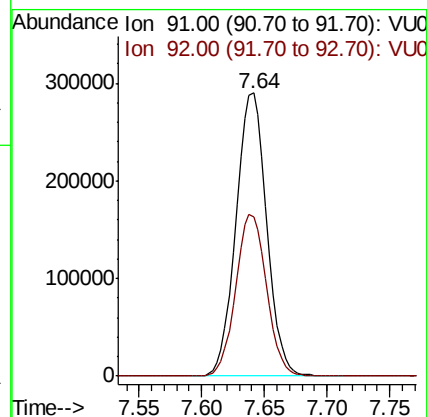
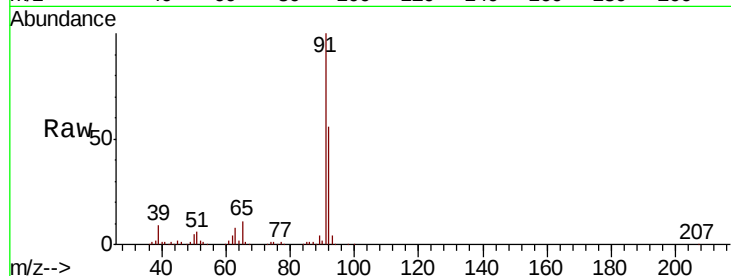
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 492871

Ion Ratio Lower Upper

91 100

92 56.3 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 54.954 ug/L

RT: 7.88 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VU026302.D

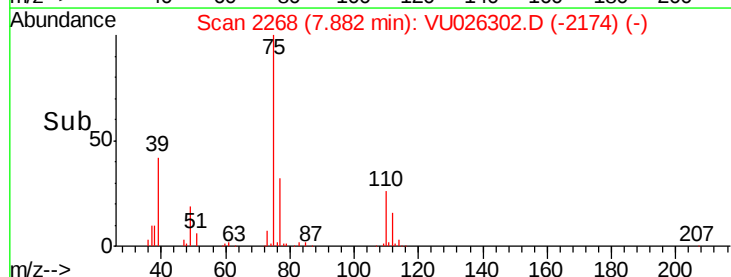
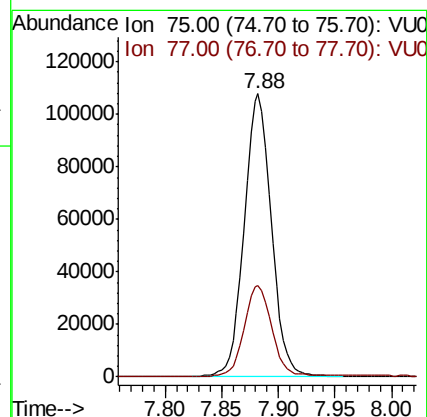
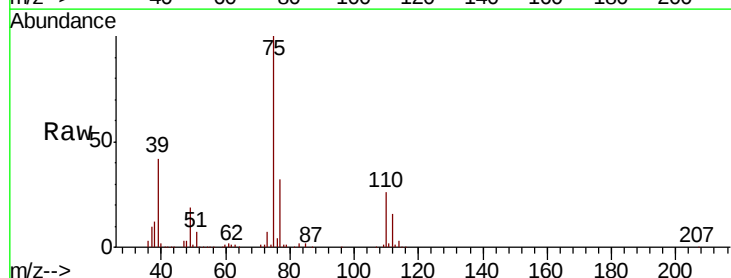
Acq: 23 Aug 2018 16:37

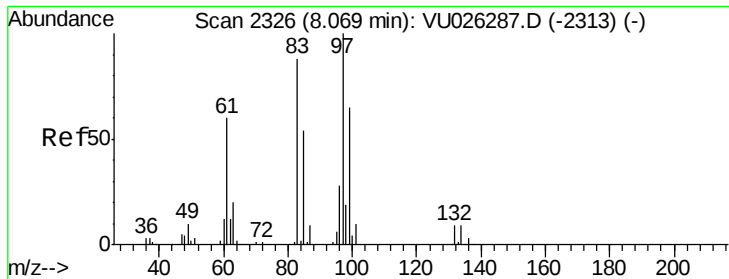
Tgt Ion: 75 Resp: 181098

Ion Ratio Lower Upper

75 100

77 32.4 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 54.648 ug/L

RT: 8.07 min Scan# 2326

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 116402

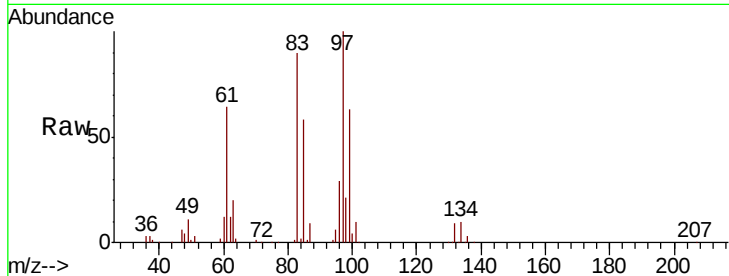
Ion Ratio Lower Upper

97 100

99 63.5 44.0 81.6

83 89.7 59.2 110.0

85 58.2 38.0 70.6

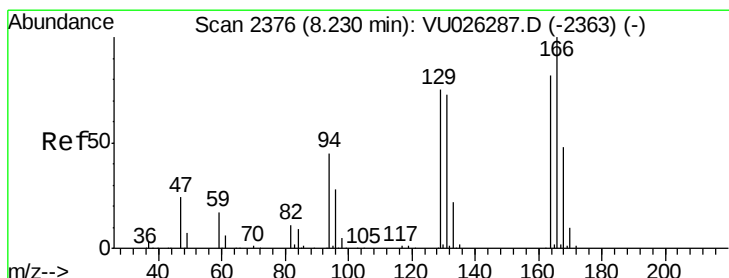
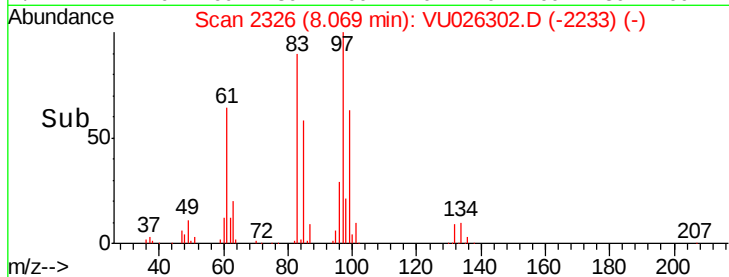
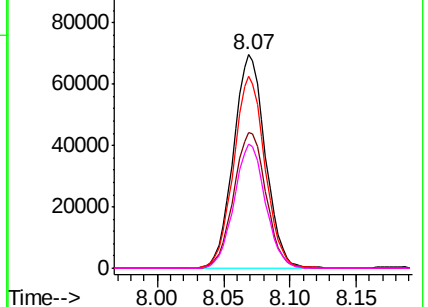


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 54.059 ug/L

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Tgt Ion:164 Resp: 101482

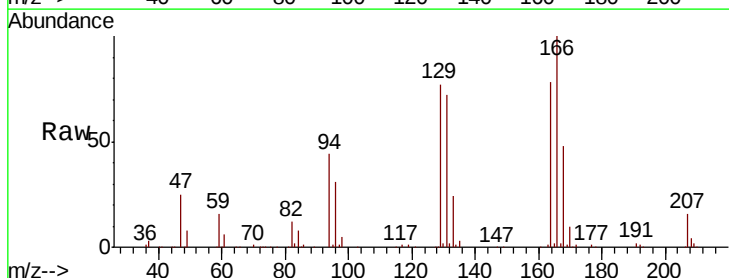
Ion Ratio Lower Upper

164 100

129 98.2 67.3 124.9

131 91.3 65.5 121.7

166 127.6 90.9 168.9

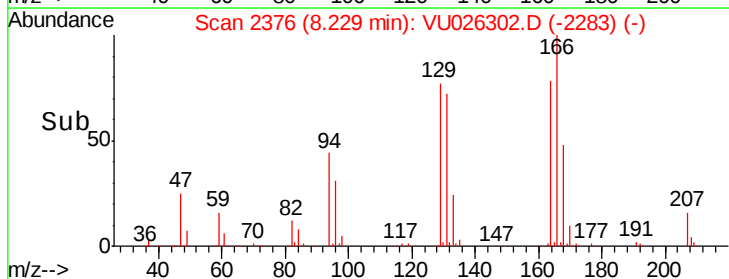
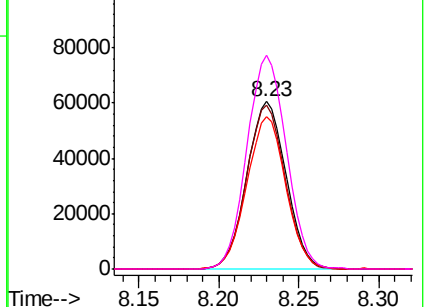


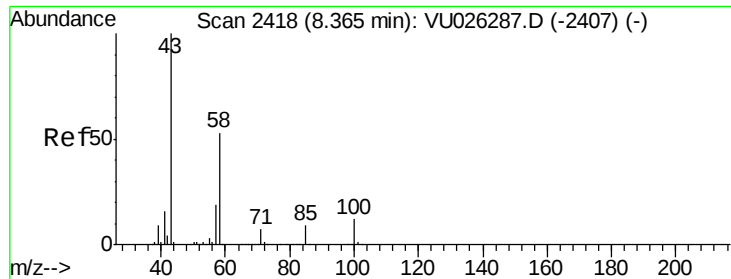
Abundance Ion 164.00 (163.70 to 164.70): V

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

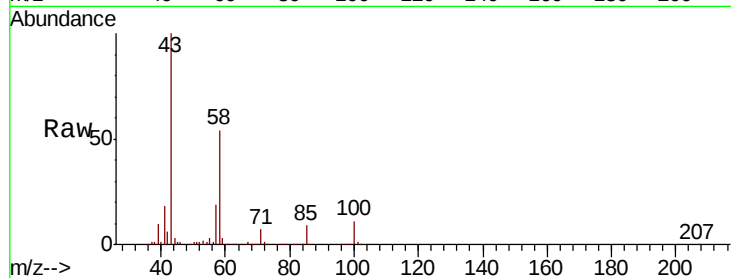




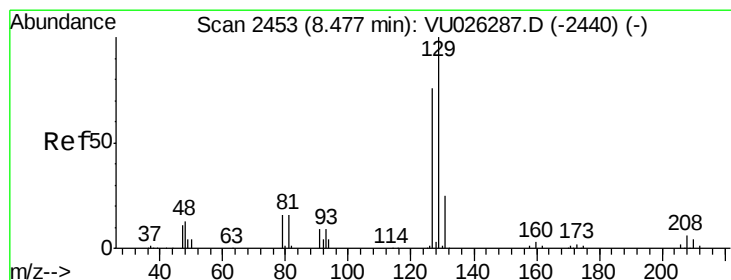
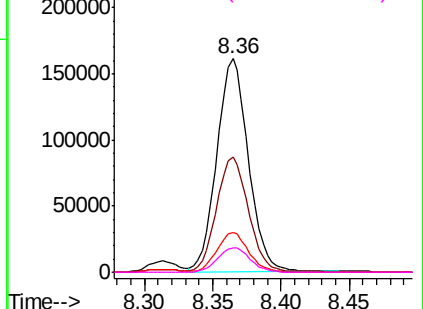
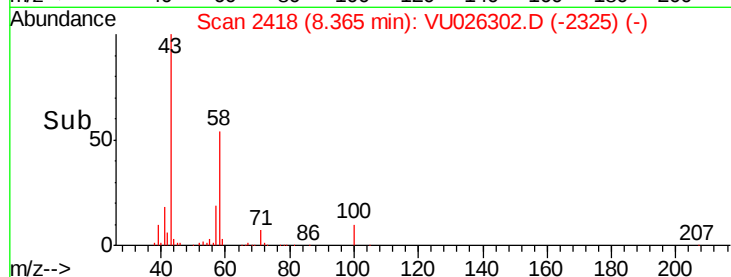
#48
2-Hexanone
Concen: 112.735 ug/L
RT: 8.36 min Scan# 2418
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:	43	Resp:	259271
Ion	Ratio	Lower	Upper
43	100		
58	53.9	42.6	63.8
57	18.6	15.1	22.7
100	11.7	9.5	14.3

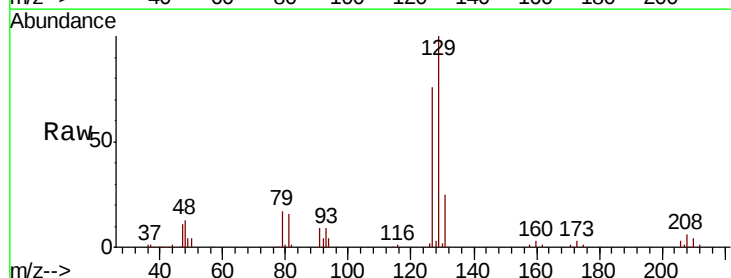


Abundance Ion 43.00 (42.70 to 43.70): VU026302.D (-2325) (-)
Ion 58.00 (57.70 to 58.70): VU026302.D (-2325) (-)
Ion 57.00 (56.70 to 57.70): VU026302.D (-2325) (-)
Ion 100.00 (99.70 to 100.70): VU026302.D (-2325) (-)

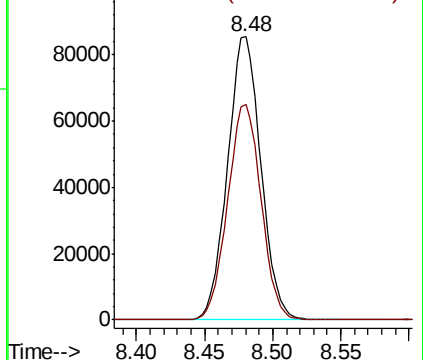
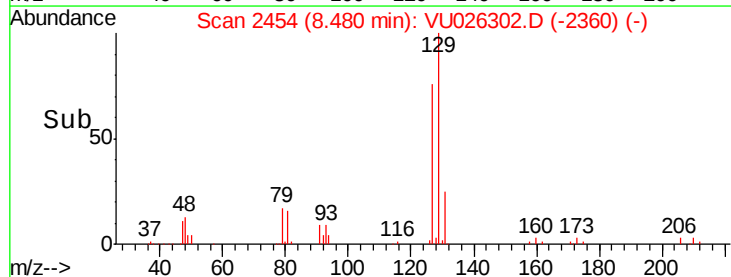


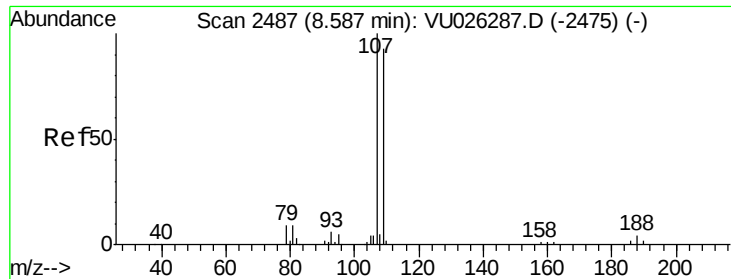
#49
Dibromochloromethane
Concen: 55.401 ug/L
RT: 8.48 min Scan# 2454
Delta R.T. 0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Tgt Ion:	129	Resp:	145027
Ion	Ratio	Lower	Upper
129	100		
127	76.1	53.8	100.0



Abundance Ion 129.00 (128.70 to 129.70): VU026302.D (-2360) (-)
Ion 127.00 (126.70 to 127.70): VU026302.D (-2360) (-)

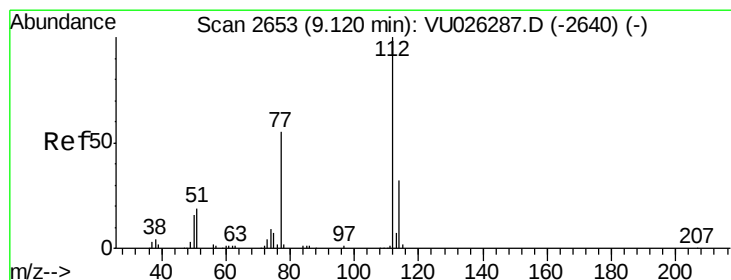
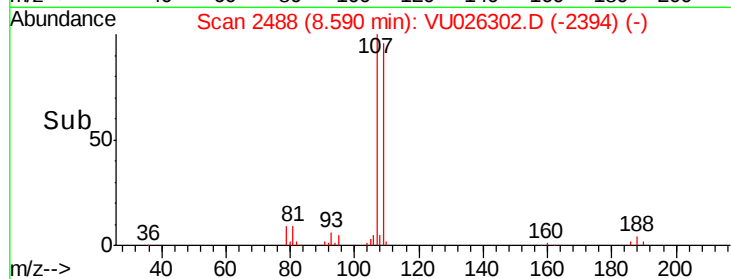
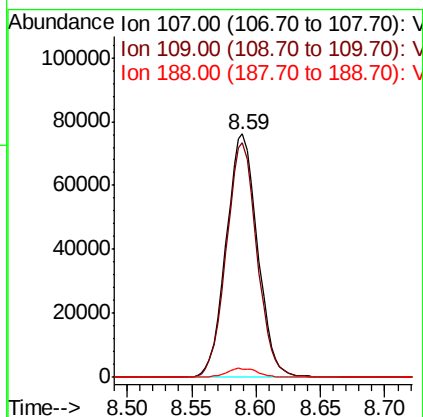
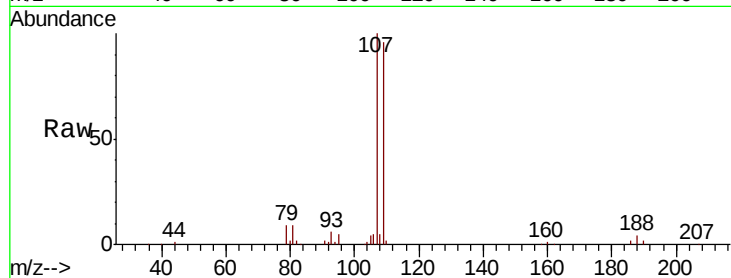




#50
 1,2-Dibromoethane
 Concen: 54.736 ug/L
 RT: 8.59 min Scan# 2488
 Delta R.T. 0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

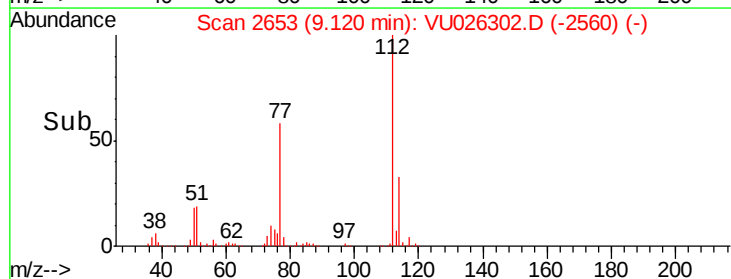
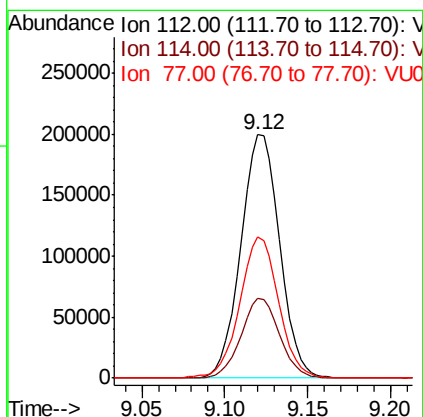
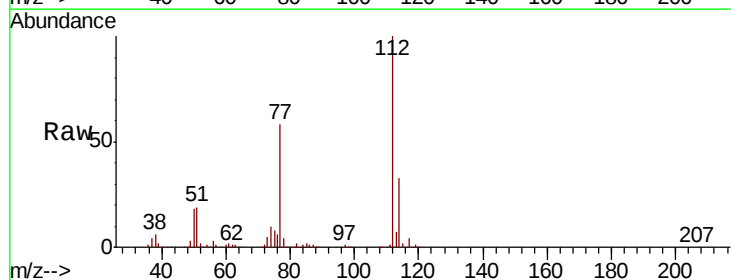
Instrument :
 MSVOA_U
 ClientSampleId :

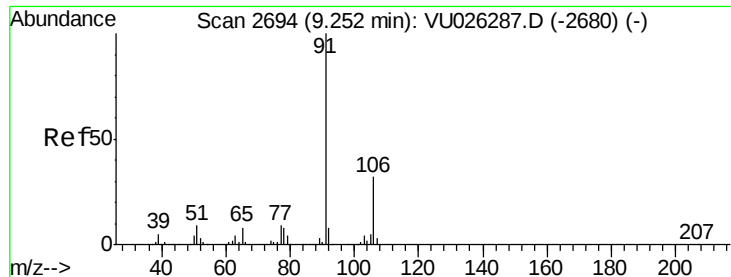
Tot Ion	Ratio	Lower	Upper
107	100		
109	96.3	65.2	121.0
188	3.5	3.4	5.2



#51
 Chlorobenzene
 Concen: 54.127 ug/L
 RT: 9.12 min Scan# 2653
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.9	22.5	41.9
77	57.9	45.4	68.2





#52

Ethylbenzene

Concen: 56.302 ug/L

RT: 9.25 min Scan# 2694

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

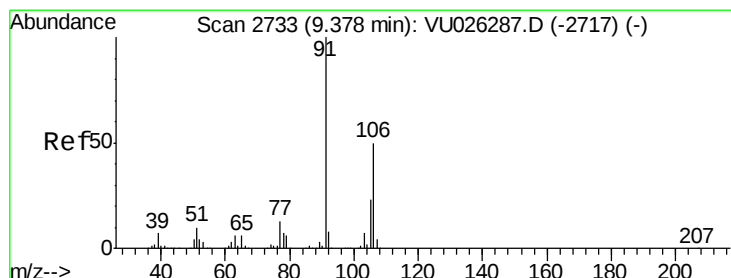
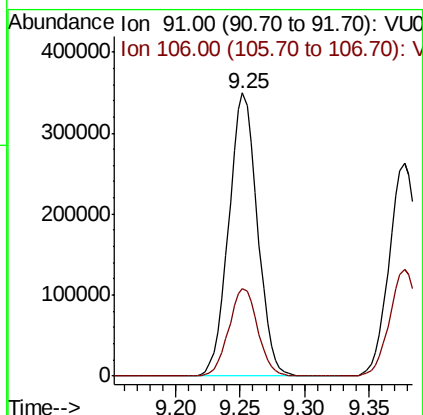
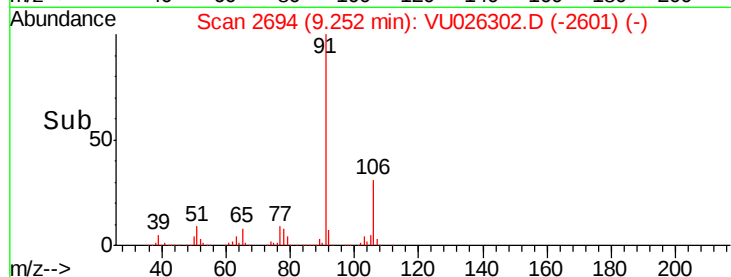
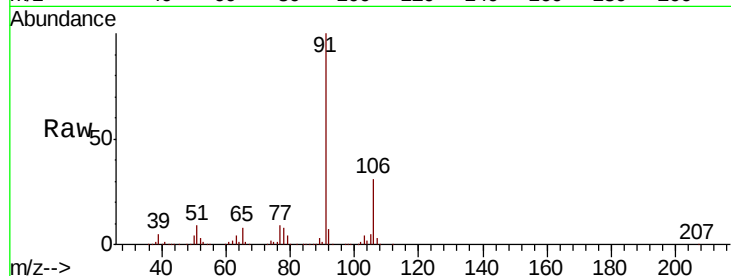
ClientSampleId :

Tot Ion: 91 Resp: 538357

Ion Ratio Lower Upper

91 100

106 31.1 22.3 41.5



#53

m,p-Xylene

Concen: 57.086 ug/L

RT: 9.38 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU026302.D

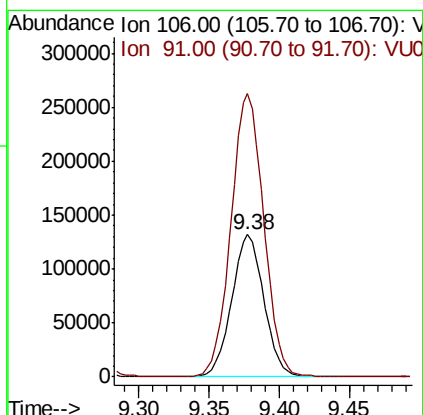
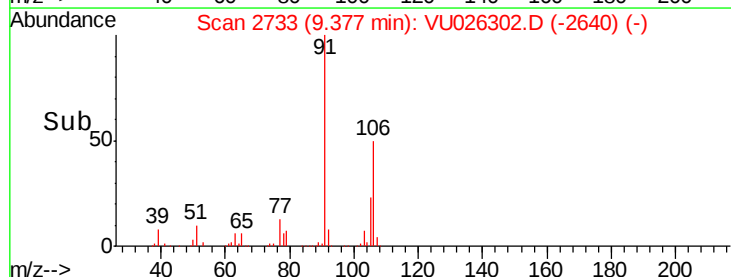
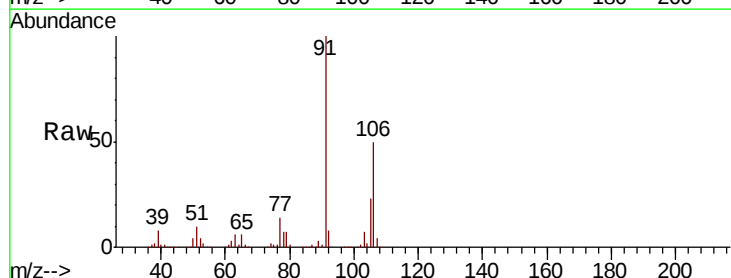
Acq: 23 Aug 2018 16:37

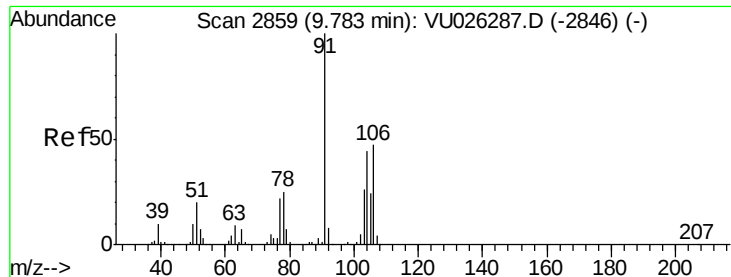
Tgt Ion: 106 Resp: 210977

Ion Ratio Lower Upper

106 100

91 199.0 136.6 253.8





#54

o-xylene

Concen: 57.239 ug/L

RT: 9.78 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

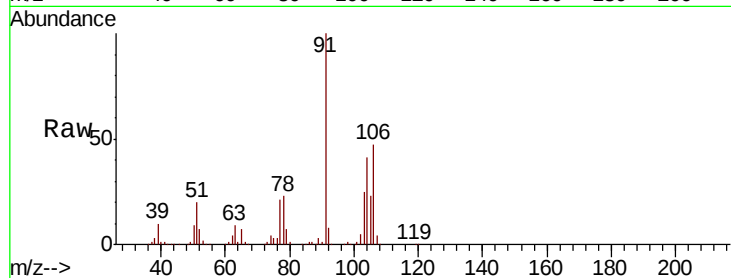
ClientSampled :

Tot Ion:106 Resp: 206340

Ion Ratio Lower Upper

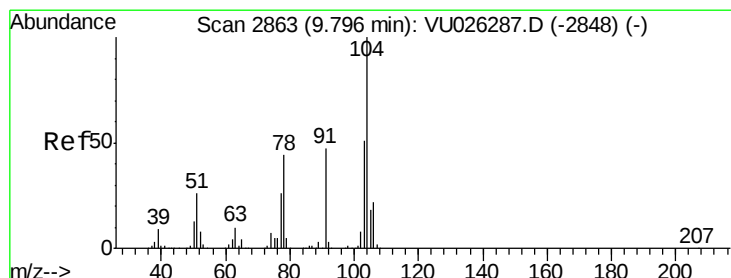
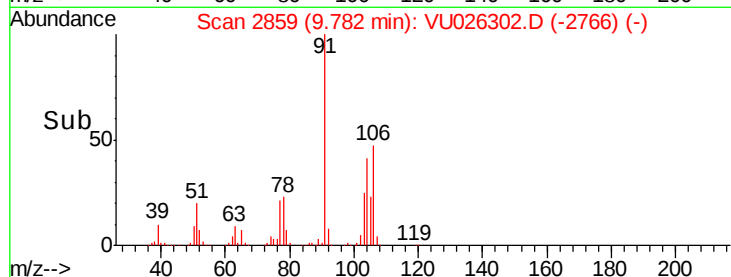
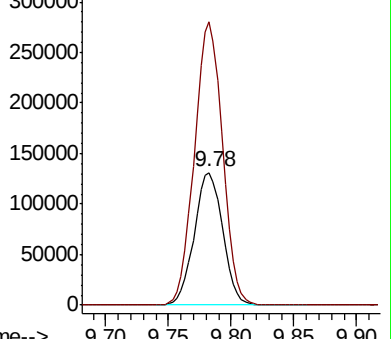
106 100

91 213.6 151.2 280.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 58.553 ug/L

RT: 9.80 min Scan# 2863

Delta R.T. -0.00 min

Lab File: VU026302.D

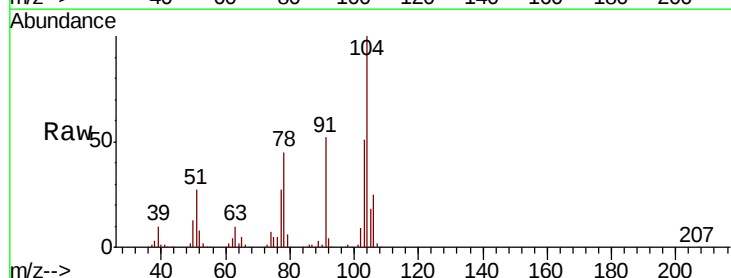
Acq: 23 Aug 2018 16:37

Tgt Ion:104 Resp: 360301

Ion Ratio Lower Upper

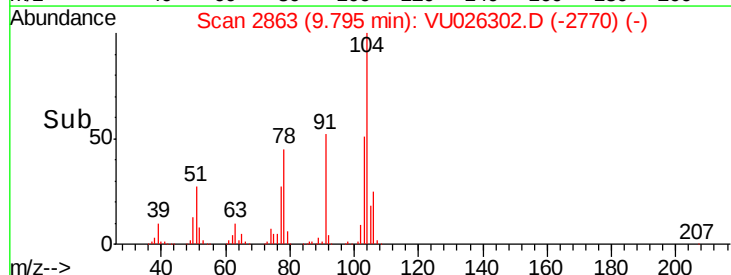
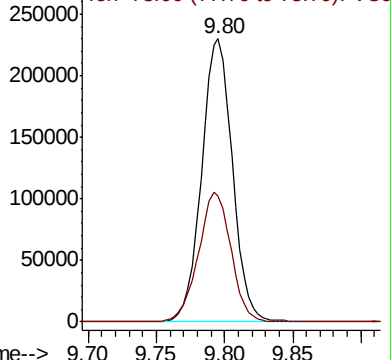
104 100

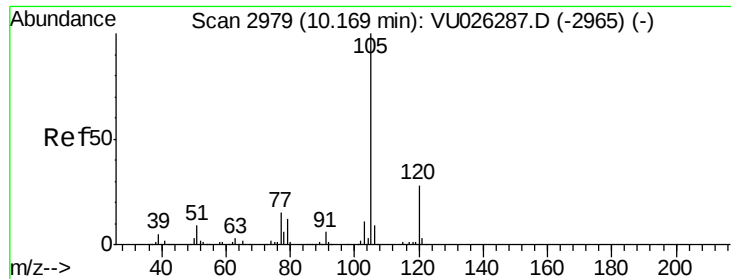
78 44.7 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 57.075 ug/L

RT: 10.17 min Scan# 2979

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

ClientSampleId :

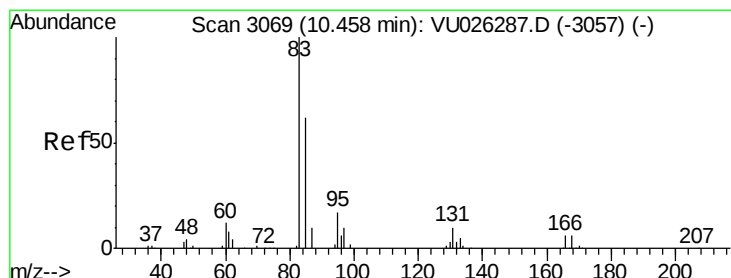
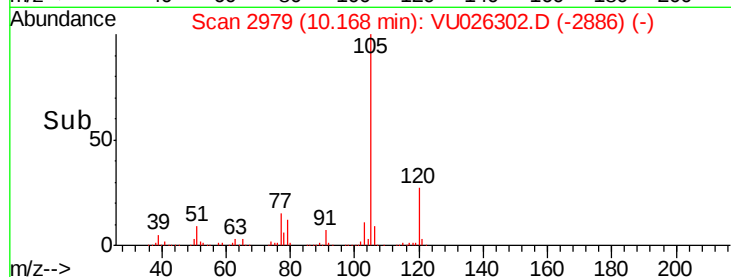
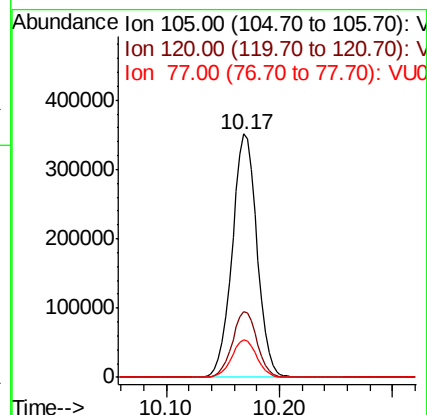
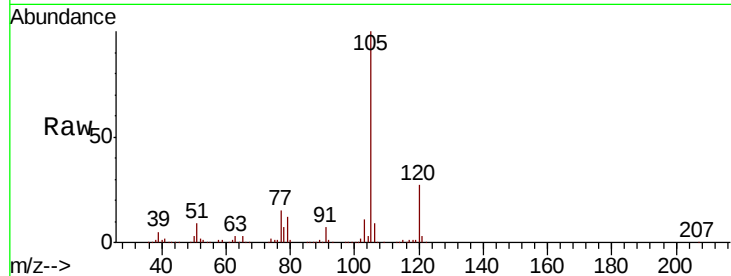
Tot Ion:105 Resp: 533756

Ion Ratio Lower Upper

105 100

120 27.0 21.9 32.9

77 15.6 12.4 18.6



#58

1,1,2,2-Tetrachloroethane

Concen: 56.375 ug/L

RT: 10.46 min Scan# 3069

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

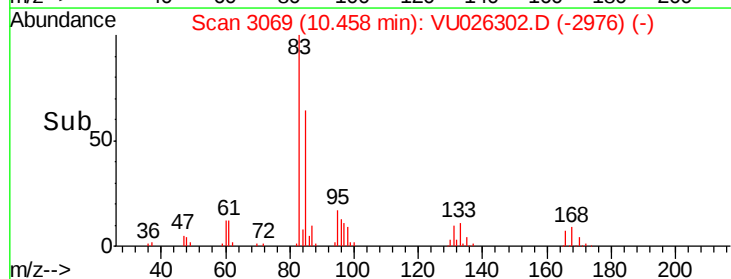
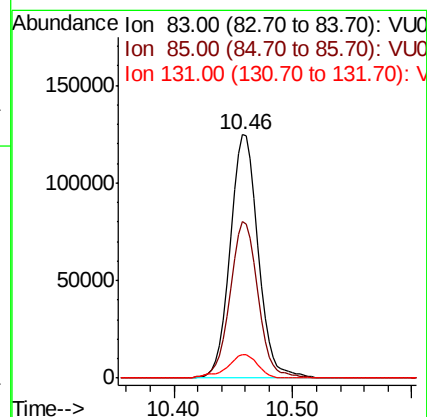
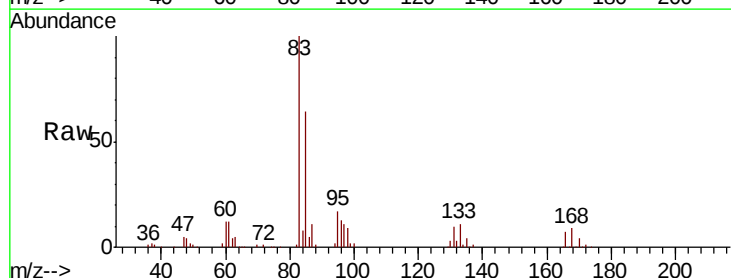
Tgt Ion: 83 Resp: 203231

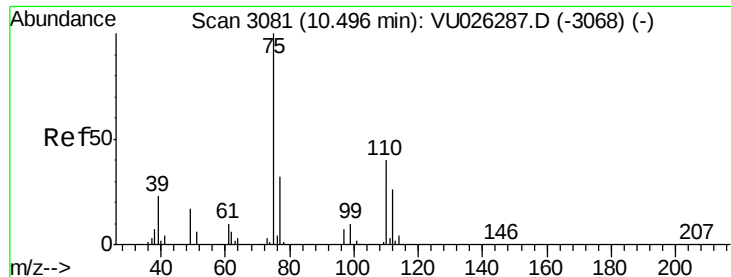
Ion Ratio Lower Upper

83 100

85 64.2 44.9 83.3

131 9.7 8.2 12.2

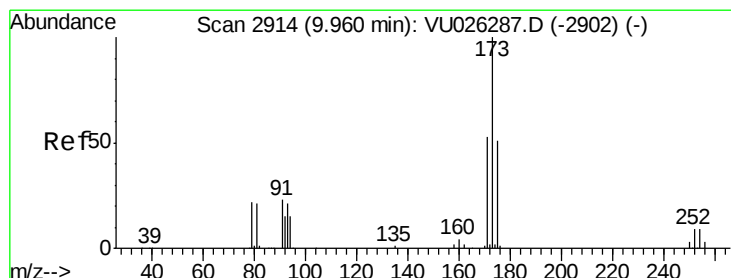
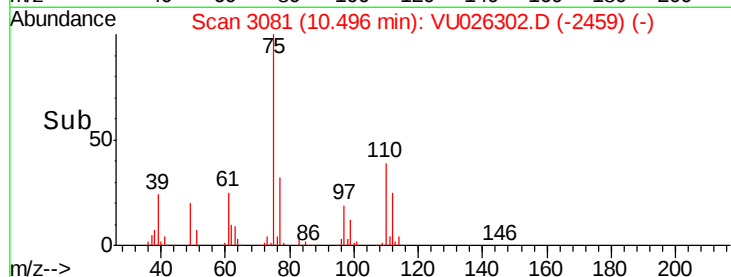
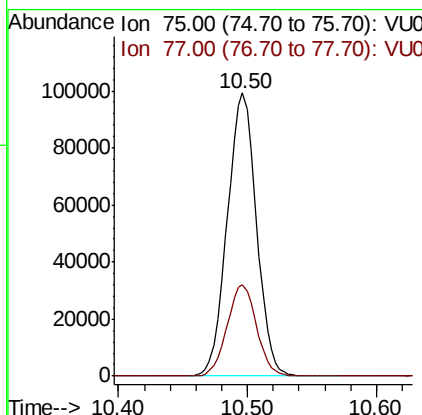
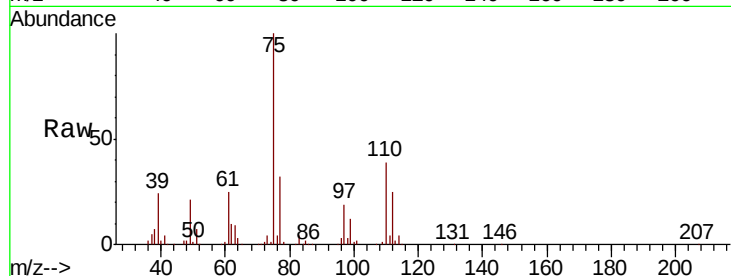




#59
 1,2,3-Trichloropropane
 Concen: 55.310 ug/L
 RT: 10.50 min Scan# 3081
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

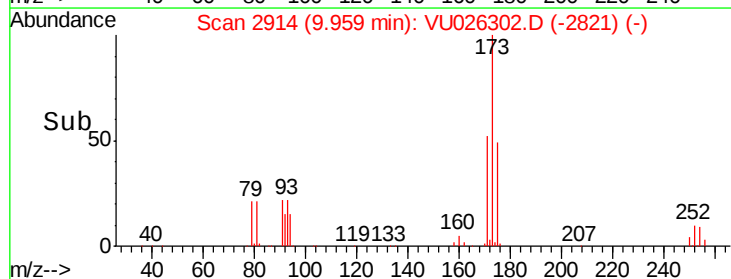
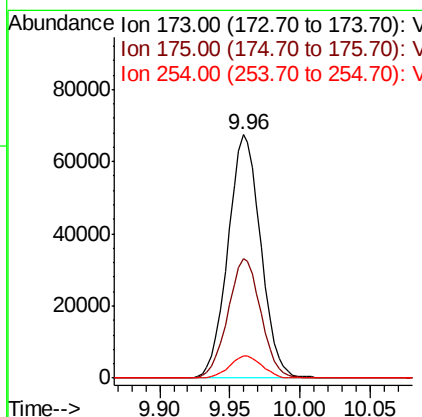
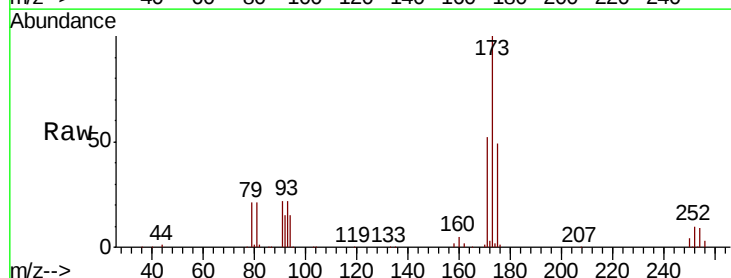
Instrument :
 MSVOA_U
 ClientSampleId :

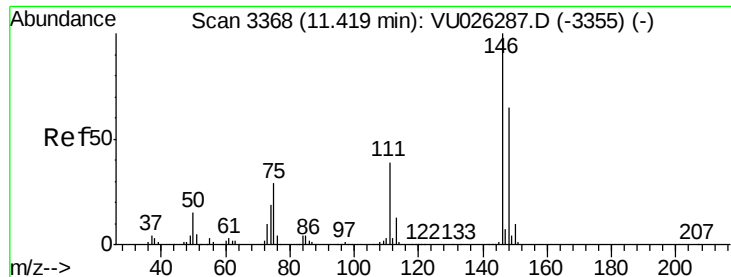
Tot Ion: 75 Resp: 155475
 Ion Ratio Lower Upper
 75 100
 77 32.7 25.5 38.3



#61
 Bromoform
 Concen: 54.420 ug/L
 RT: 9.96 min Scan# 2914
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion: 173 Resp: 109647
 Ion Ratio Lower Upper
 173 100
 175 49.1 39.4 59.2
 254 8.9 7.0 10.4





#62

1,3-Dichlorobenzene

Concen: 53.318 ug/L

RT: 11.42 min Scan# 3368

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

Instrument :

MSVOA_U

ClientSampled :

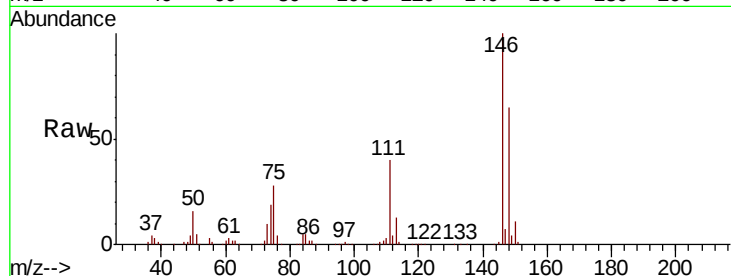
Tot Ion:146 Resp: 255631

Ion Ratio Lower Upper

146 100

111 39.6 26.9 50.1

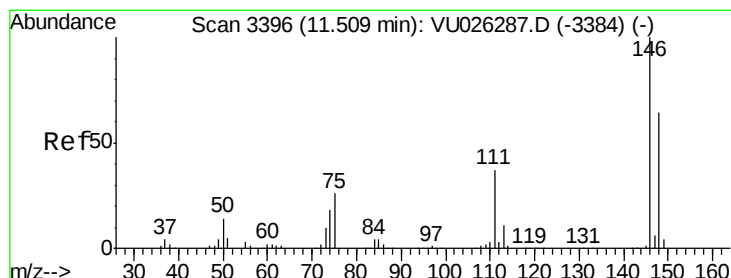
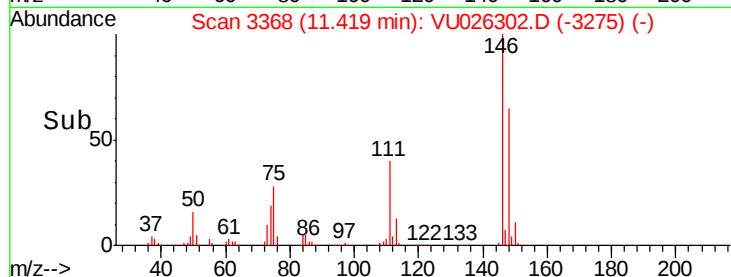
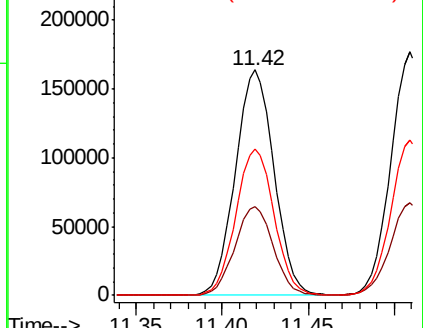
148 64.7 43.7 81.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 53.302 ug/L

RT: 11.51 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VU026302.D

Acq: 23 Aug 2018 16:37

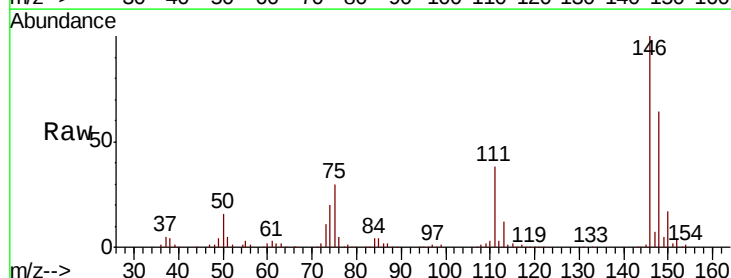
Tgt Ion:146 Resp: 270027

Ion Ratio Lower Upper

146 100

111 38.2 25.9 48.1

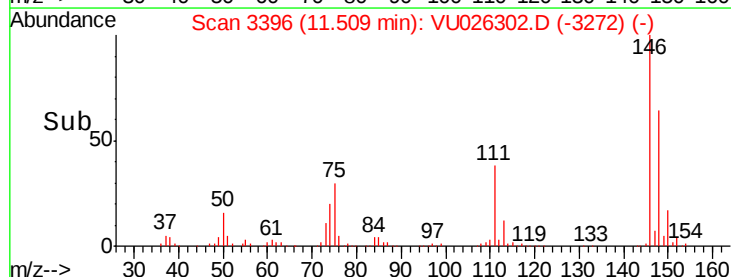
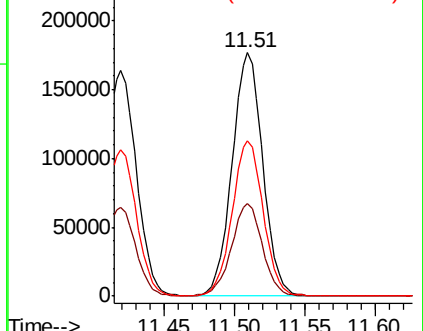
148 64.0 44.5 82.7

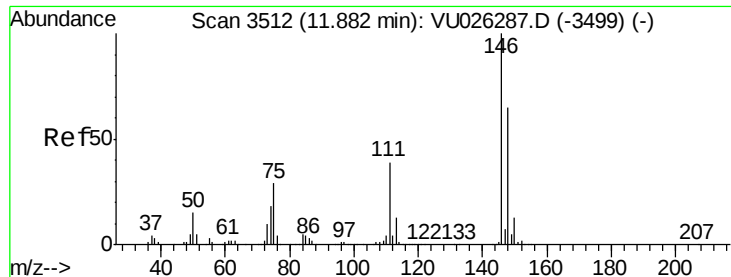


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

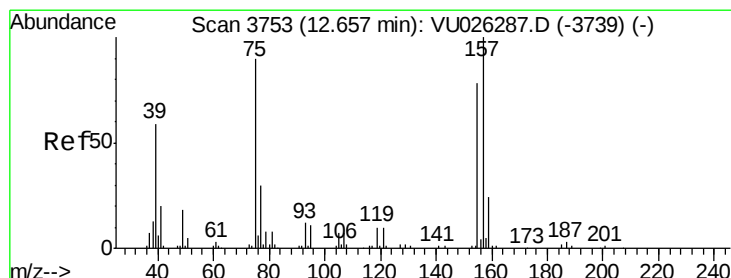
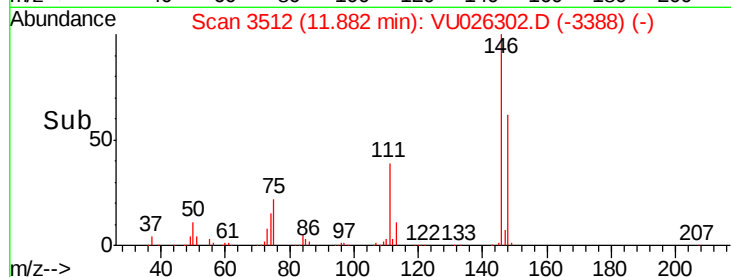
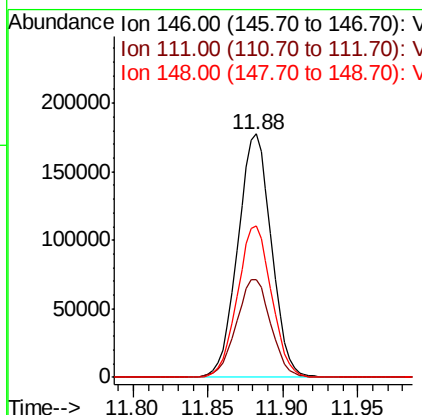
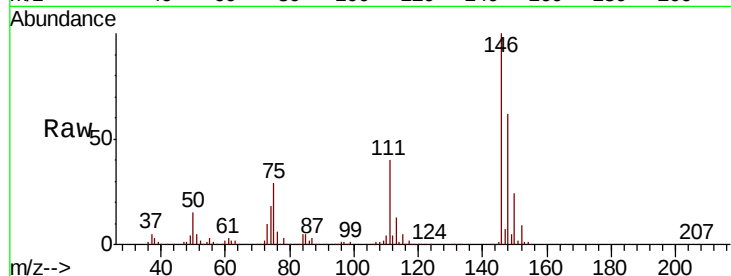




#65
 1,2-Dichlorobenzene
 Concen: 55.019 ug/L
 RT: 11.88 min Scan# 3512
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

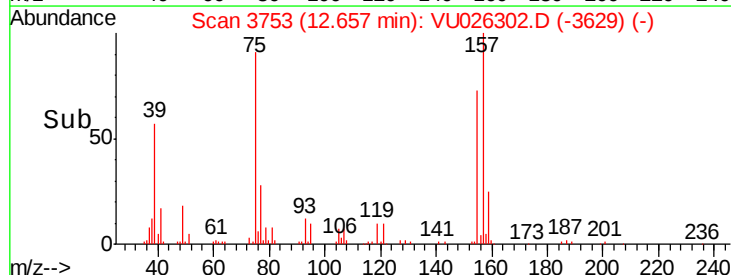
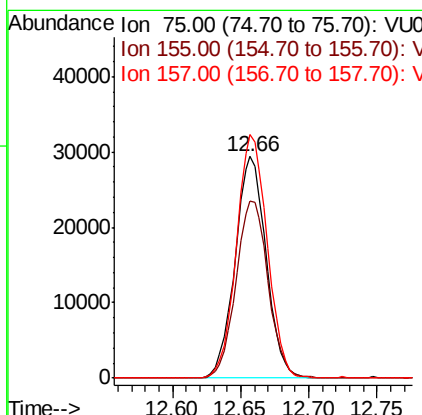
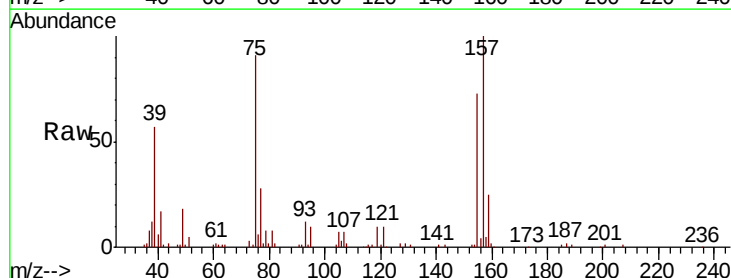
Instrument :
 MSVOA_U
 ClientSampleId :

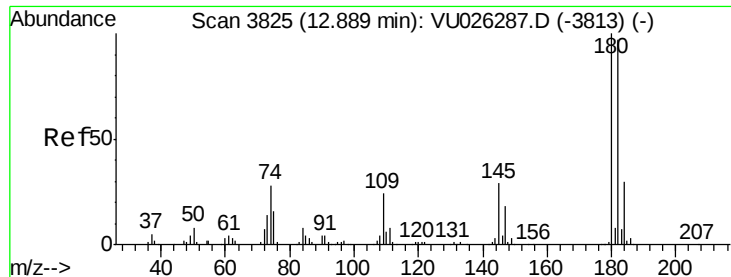
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	32.6	48.8
148	62.1	51.0	76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 55.104 ug/L
 RT: 12.66 min Scan# 3753
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.1	65.0	97.6
157	109.8	87.5	131.3

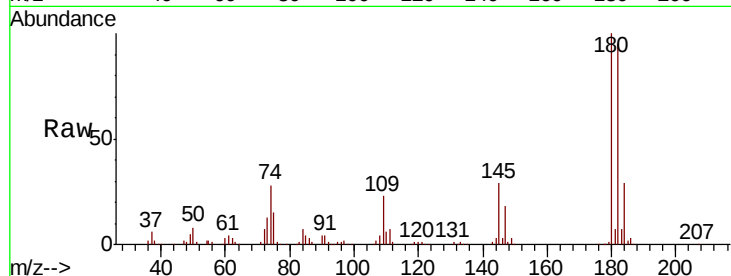




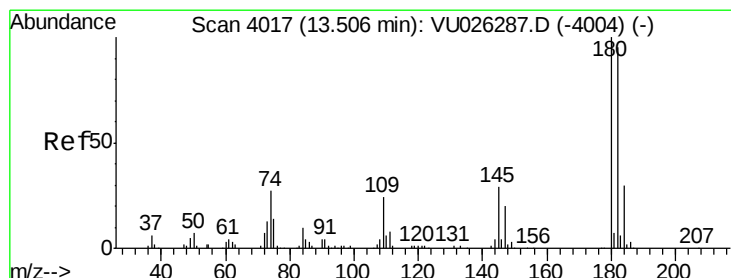
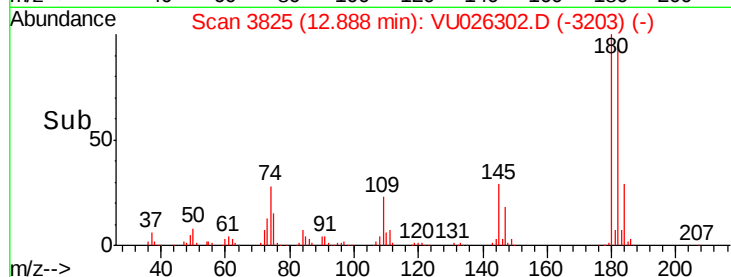
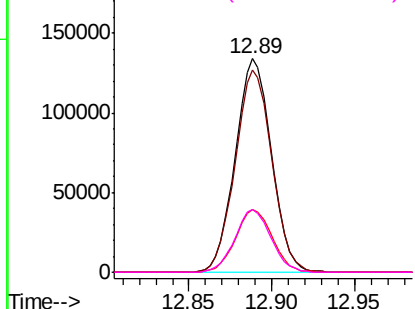
#67
 1,3,5-Trichlorobenzene
 Concen: 54.154 ug/L
 RT: 12.89 min Scan# 3825
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	180	Resp:	203810
Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.9	116.9
184	29.8	24.2	36.4
145	29.2	23.4	35.2

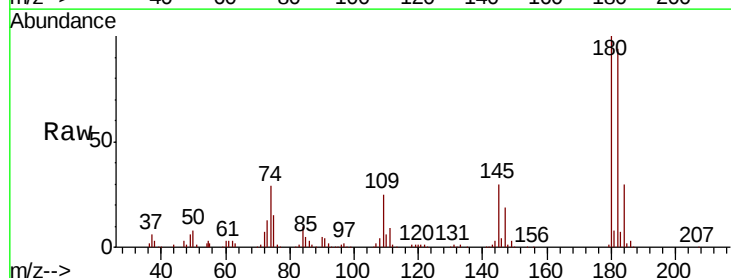


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

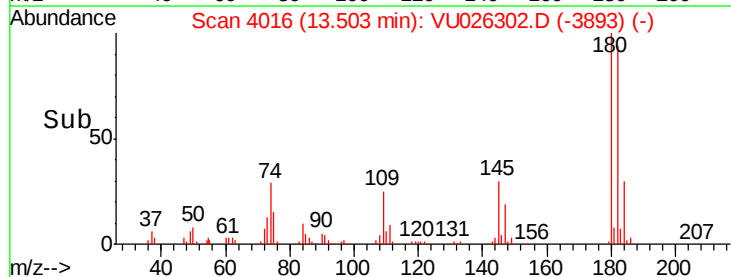
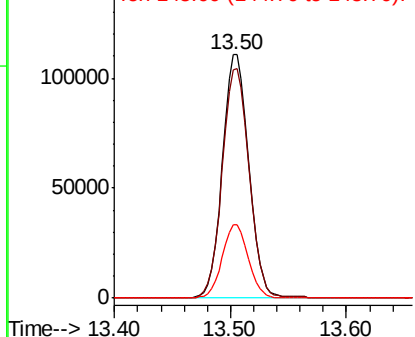


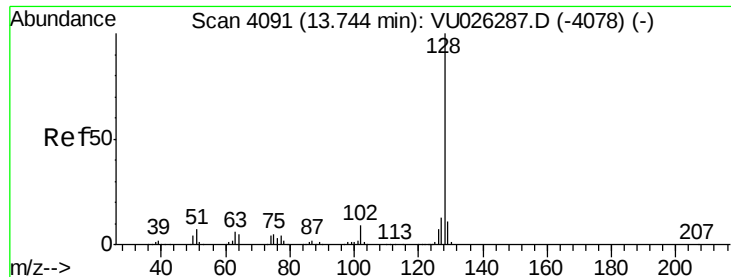
#68
 1,2,4-trichlorobenzene
 Concen: 53.148 ug/L
 RT: 13.50 min Scan# 4016
 Delta R.T. -0.00 min
 Lab File: VU026302.D
 Acq: 23 Aug 2018 16:37

Tgt Ion:	180	Resp:	174609
Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.8	113.6
145	29.6	23.8	35.8



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

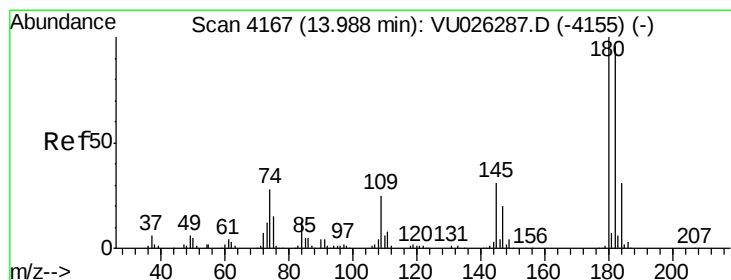
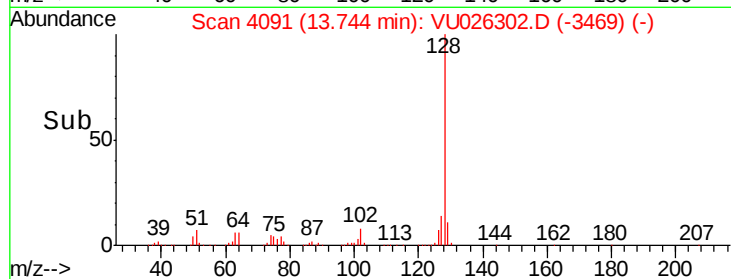
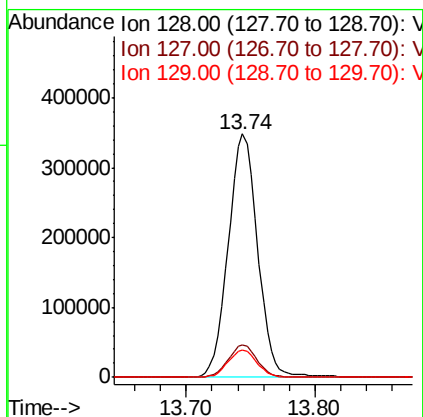
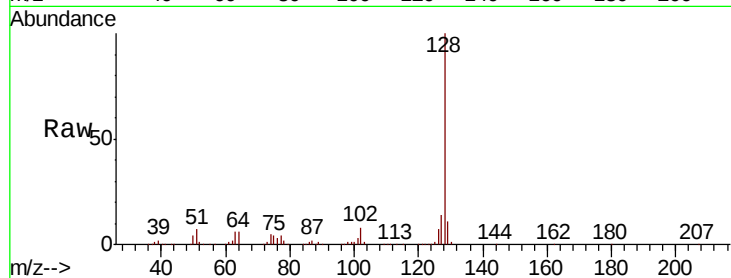




#69
Naphthalene
Concen: 56.471 ug/L
RT: 13.74 min Scan# 4091
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	11.0	8.4	12.6



#70
1,2,3-Trichlorobenzene
Concen: 55.482 ug/L
RT: 13.99 min Scan# 4167
Delta R.T. -0.00 min
Lab File: VU026302.D
Acq: 23 Aug 2018 16:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.6	116.4
145	31.2	26.2	39.2

