

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080819\
 Data File : VU033632.D
 Acq On : 08 Aug 2019 12:49
 Operator : JC/SP
 Sample : VSTD20035
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 08 15:28:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM080819WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 08 15:24:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	304590	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	308076	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	181199	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	678909	301.63	ug/L	0.00
7) Chloroethane-d5	1.66	69	567185	234.46	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.26	63	1100331	264.31	ug/L	0.00
21) 2-Butanone-d5	4.14	46	1080090	604.73	ug/L	0.00
24) Chloroform-d	4.62	84	1137679	276.11	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	722181	274.39	ug/L	0.00
32) Benzene-d6	5.32	84	2315277	273.45	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	740535	275.45	ug/L	0.00
41) Toluene-d8	7.55	98	2210341	281.04	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	387933	288.58	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	898480	678.92	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	1223809	297.49	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.85	152	998580	276.22	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	523781	199.420	ug/L	99
3) Chloromethane	1.32	50	562687	197.674	ug/L	100
5) Vinyl chloride	1.39	62	628686	200.630	ug/L	99
6) Bromomethane	1.60	94	507949	215.314	ug/L	99
8) Chloroethane	1.68	64	377903	154.085	ug/L	99
9) Trichlorofluoromethane	1.87	101	813776	199.700	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	416958	200.681	ug/L	99
12) 1,1-Dichloroethene	2.27	96	408454	203.590	ug/L	94
13) Acetone	2.31	43	572874	353.978	ug/L	99
14) Carbon disulfide	2.46	76	1214164	195.640	ug/L	99
15) Methyl Acetate	2.59	43	535711	204.914	ug/L	99
16) Methylene chloride	2.68	84	469276	199.884	ug/L	100
17) trans-1,2-Dichloroethene	2.96	96	432326	201.630	ug/L	99
18) Methyl tert-butyl Ether	2.98	73	1422154	214.002	ug/L	99
19) 1,1-Dichloroethane	3.42	63	818146	201.488	ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	500693	211.217	ug/L	96
22) 2-Butanone	4.23	43	845571	420.547	ug/L	100
23) Bromochloromethane	4.52	128	251899	203.089	ug/L	97
25) Chloroform	4.65	83	844764	200.543	ug/L	97
27) 1,2-Dichloroethane	5.38	62	664918	202.982	ug/L	99
29) Cyclohexane	4.97	56	736339	209.332	ug/L	98
30) 1,1,1-Trichloroethane	4.89	97	718689	195.899	ug/L	99
31) Carbon tetrachloride	5.11	117	649254	201.231	ug/L	100
33) Benzene	5.37	78	1847789	199.067	ug/L	100
34) Trichloroethene	6.16	95	480067	200.704	ug/L	99
35) Methylcyclohexane	6.40	83	788656	210.295	ug/L	98
37) 1,2-Dichloropropane	6.41	63	497423	196.018	ug/L	100
38) Bromodichloromethane	6.74	83	649632	202.844	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	816093	211.049	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	1597556	438.490	ug/L	99

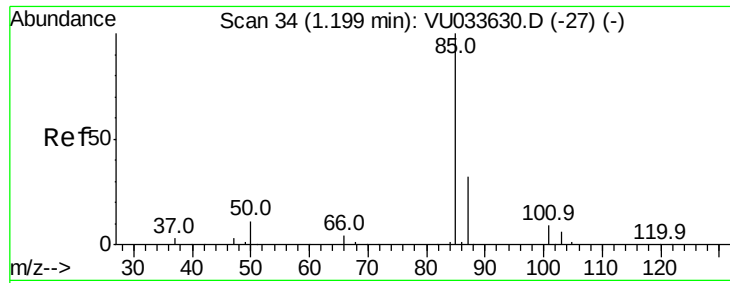
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 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	2048174	206.541	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	755933	216.510	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	474714	199.314	ug/L	99
46) Tetrachloroethene	8.21	164	396743	202.880	ug/L	98
48) 2-Hexanone	8.35	43	1316849	450.223	ug/L	98
49) Dibromochloromethane	8.46	129	560806	209.314	ug/L	97
50) 1,2-Dibromoethane	8.57	107	530711	203.304	ug/L	98
51) Chlorobenzene	9.10	112	1323670	204.318	ug/L	99
52) Ethylbenzene	9.23	91	2313102	215.166	ug/L	100
53) m,p-Xylene	9.36	106	880308	215.009	ug/L	98
54) o-xylene	9.76	106	889873	222.293	ug/L	99
55) Styrene	9.77	104	1550457	227.044	ug/L	100
56) Isopropylbenzene	10.15	105	2333207	225.472	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	924274	217.797	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	713805	213.916	ug/L	100
61) Bromoform	9.94	173	463384	202.848	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	1169996	203.502	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	1186665	201.940	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	1201933	208.645	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	227254	210.359	ug/L	95
67) 1,3,5-Trichlorobenzene	12.87	180	940272	213.394	ug/L	100
68) 1,2,4-trichlorobenzene	13.49	180	854711	227.592	ug/L	99
69) Naphthalene	13.73	128	2692257	246.311	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	860054	214.940	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 199.420 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

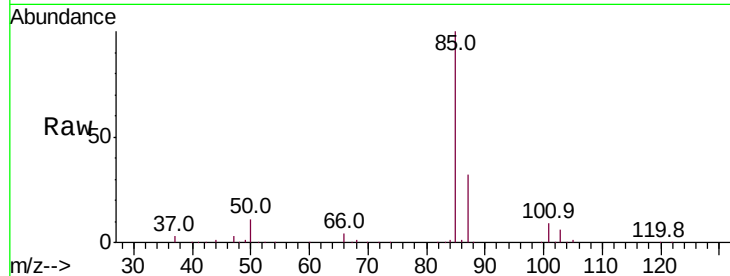
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 523781

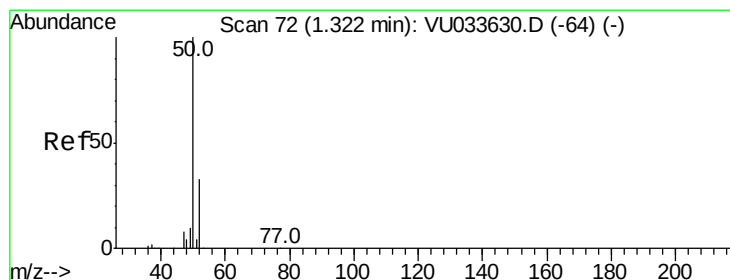
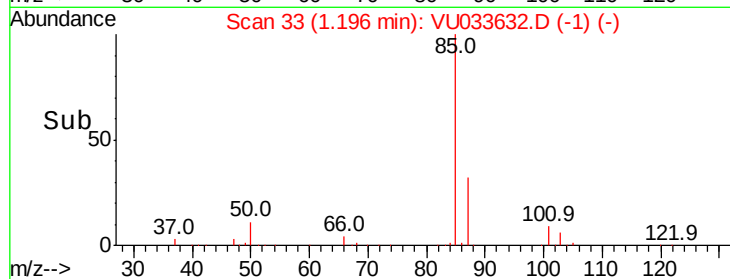
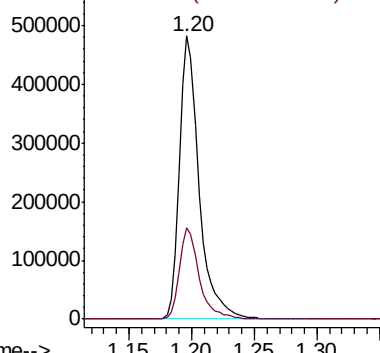
Ion Ratio Lower Upper

85 100

87 32.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU0
Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 197.674 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033632.D

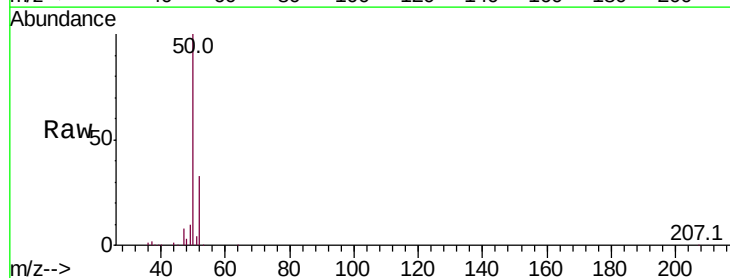
Acq: 08 Aug 2019 12:49

Tgt Ion: 50 Resp: 562687

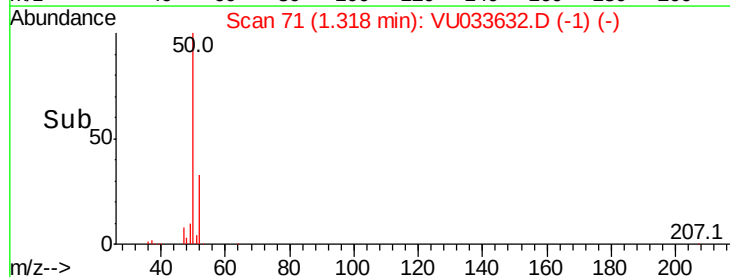
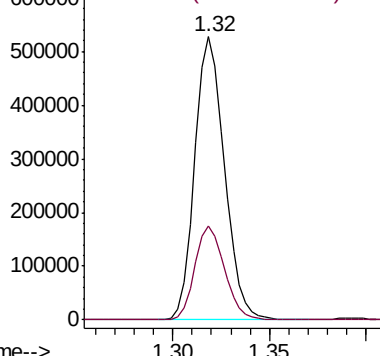
Ion Ratio Lower Upper

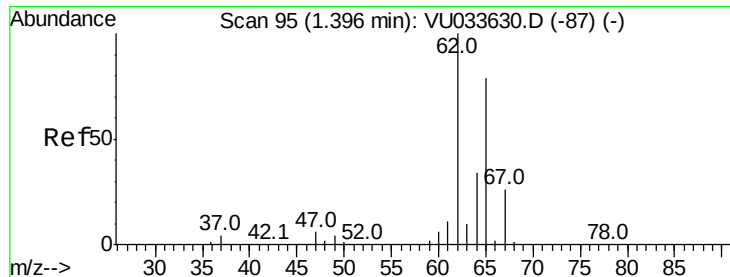
50 100

52 33.0 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU0
Ion 52.00 (51.70 to 52.70): VU0





#5

Vinyl chloride

Concen: 200.630 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

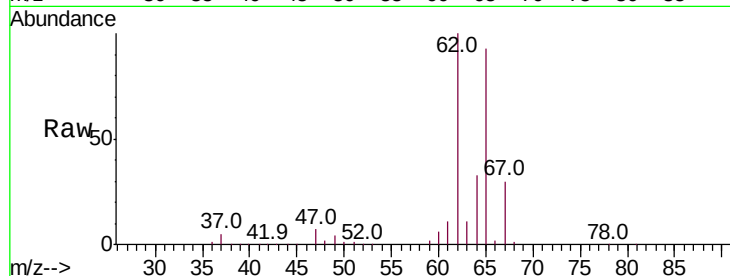
ClientSampleId :

Tot Ion: 62 Resp: 628686

Ion Ratio Lower Upper

62 100

64 32.9 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU033632.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033632.D (-87) (-)

1.39

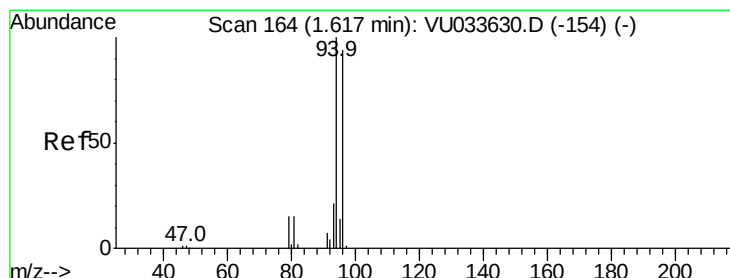
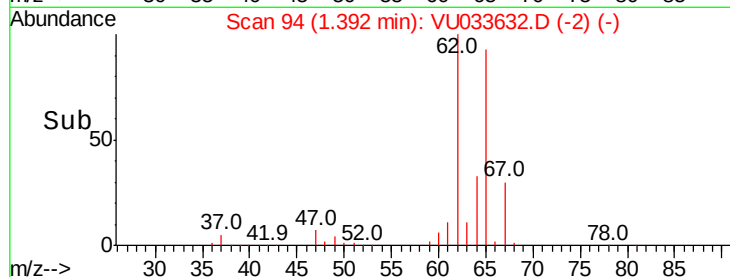
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 215.314 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.02 min

Lab File: VU033632.D

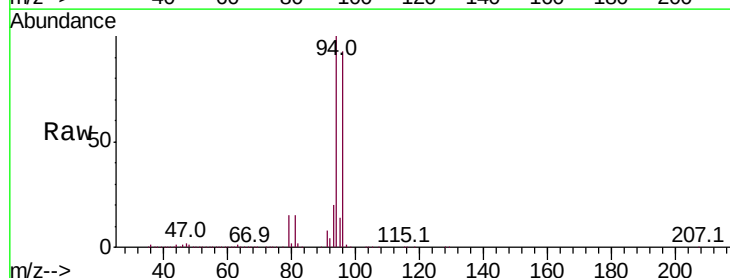
Acq: 08 Aug 2019 12:49

Tgt Ion: 94 Resp: 507949

Ion Ratio Lower Upper

94 100

96 93.4 65.8 122.2



Abundance Ion 94.00 (93.70 to 94.70): VU033632.D (-154) (-)

Ion 96.00 (95.70 to 96.70): VU033632.D (-154) (-)

1.60

500000

400000

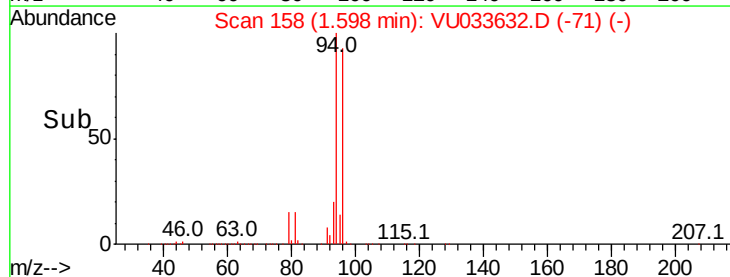
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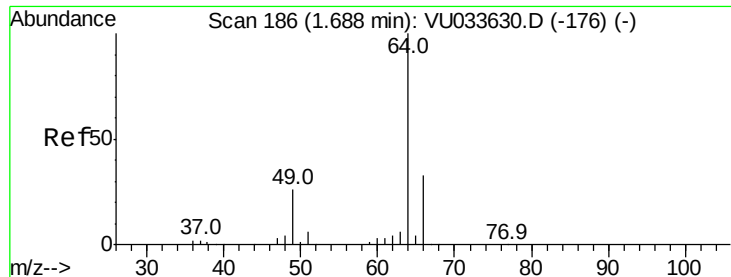
200000

100000

0

Time-->





#8

Chloroethane

Concen: 154.085 ug/L

RT: 1.68 min Scan# 183

Delta R.T. -0.01 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

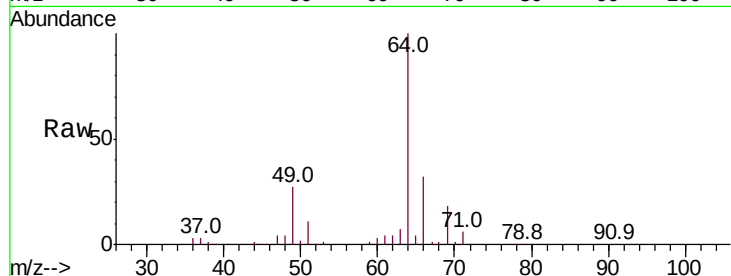
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 377903

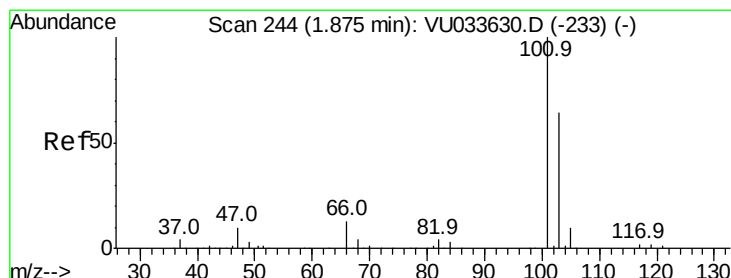
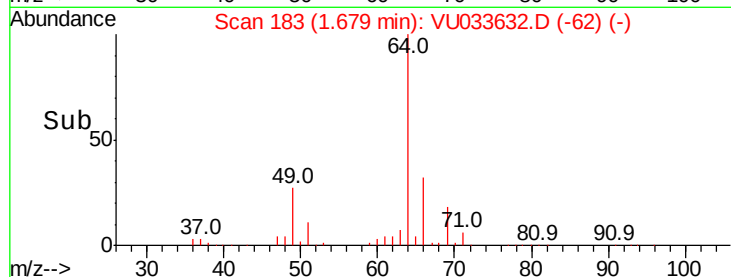
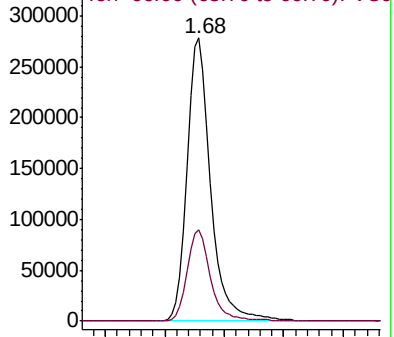
Ion Ratio Lower Upper

64 100

66 32.3 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU033630.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 199.700 ug/L

RT: 1.87 min Scan# 242

Delta R.T. -0.01 min

Lab File: VU033632.D

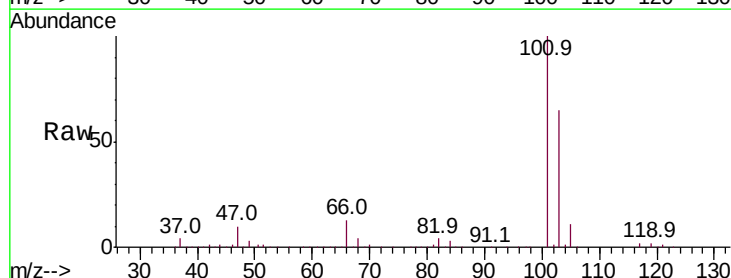
Acq: 08 Aug 2019 12:49

Tgt Ion:101 Resp: 813776

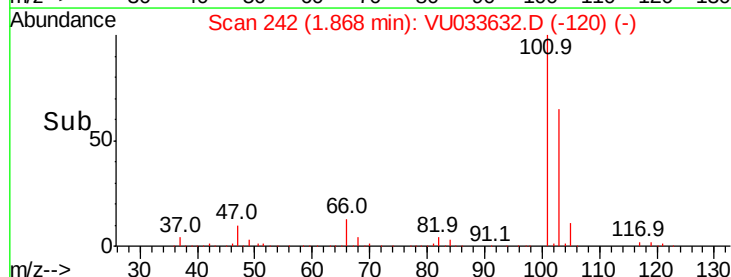
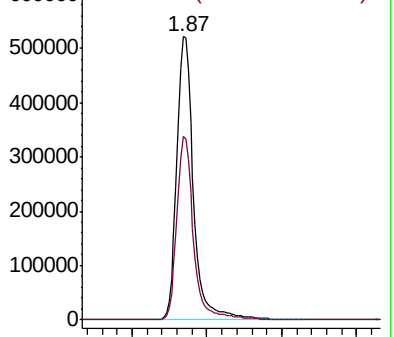
Ion Ratio Lower Upper

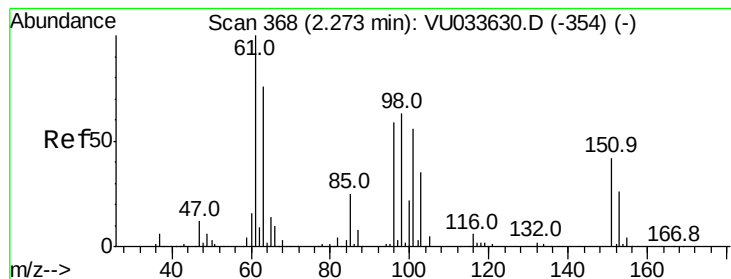
101 100

103 64.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU033630.D (-233) (-)





#10

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

Concen: 200.681 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

ClientSampled :

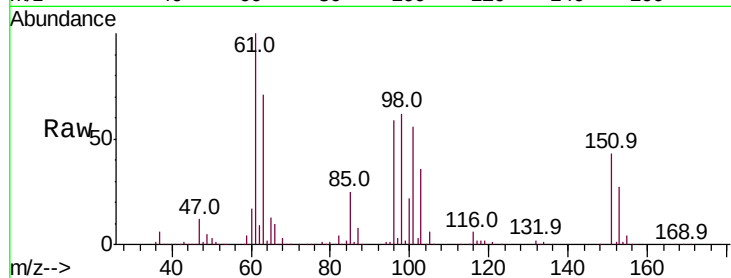
Tot Ion:101 Resp: 416958

Ion Ratio Lower Upper

101 100

85 44.2 34.8 52.2

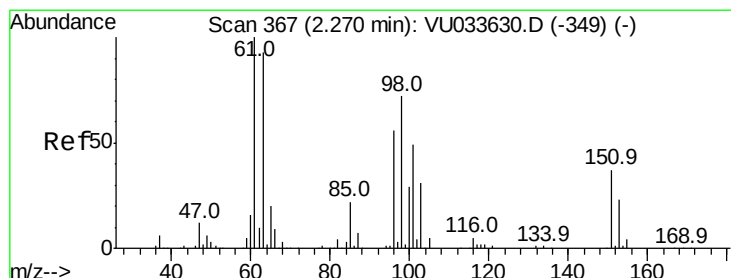
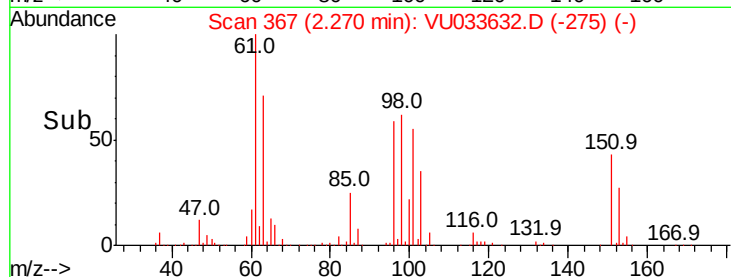
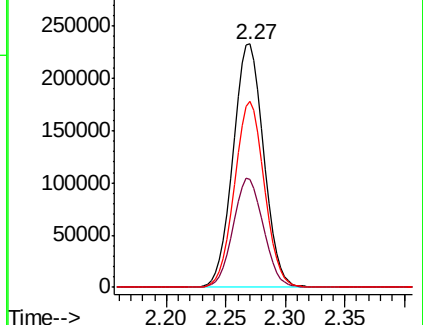
151 74.5 60.4 90.6



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: 203.590 ug/L

RT: 2.27 min Scan# 366

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

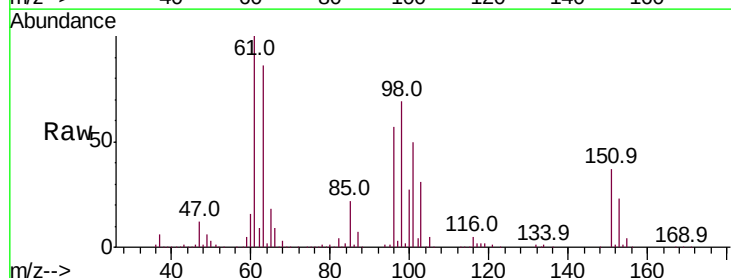
Tgt Ion: 96 Resp: 408454

Ion Ratio Lower Upper

96 100

61 175.1 124.0 230.2

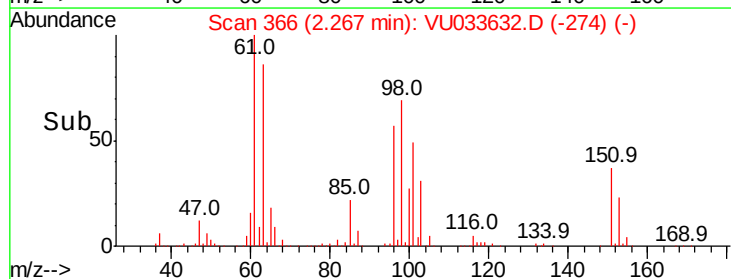
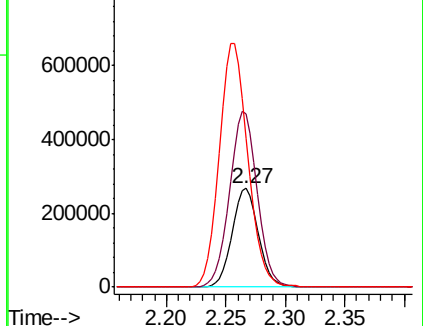
63 150.9 114.9 213.5

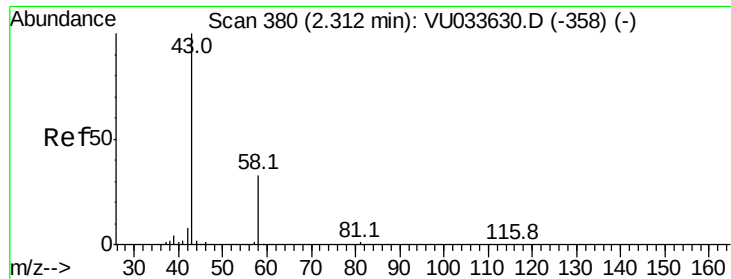


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 353.978 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

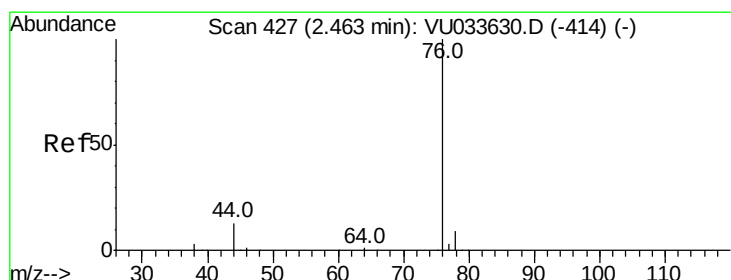
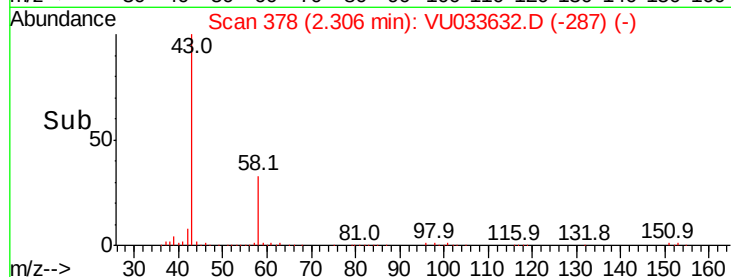
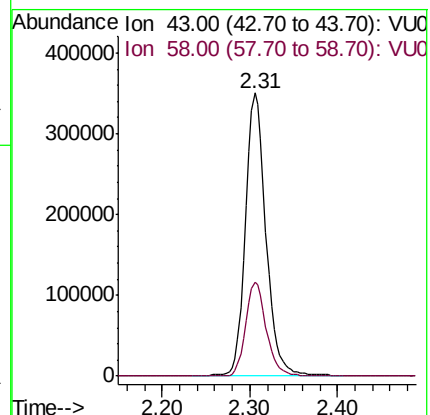
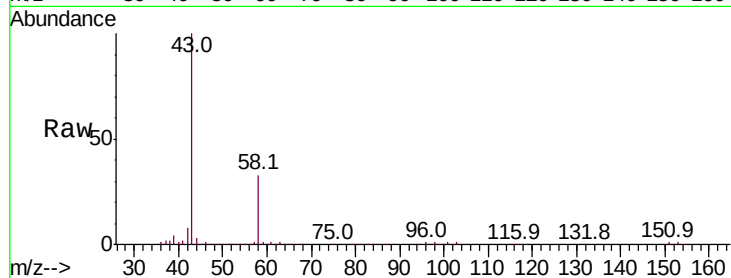
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 572874

Ion Ratio Lower Upper

43 100

58 32.9 0.0 65.0



#14

Carbon disulfide

Concen: 195.640 ug/L

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033632.D

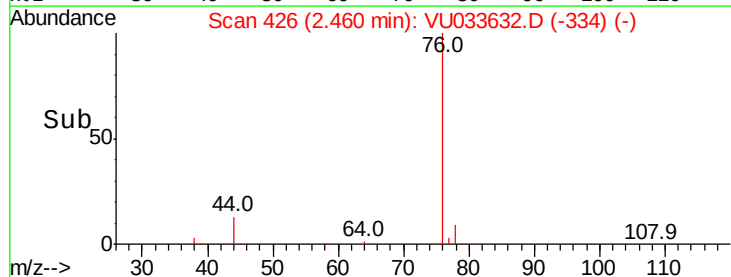
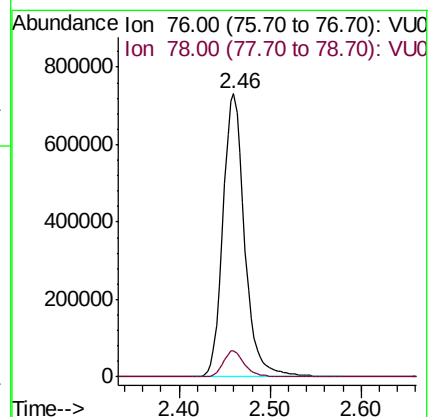
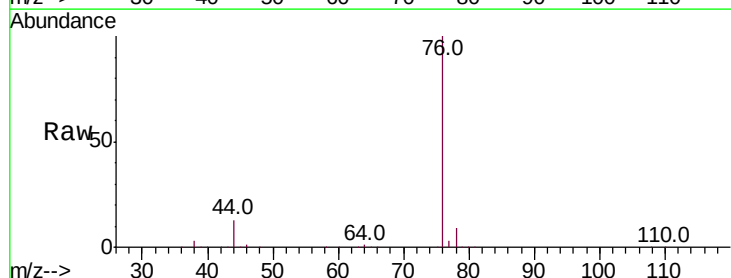
Acq: 08 Aug 2019 12:49

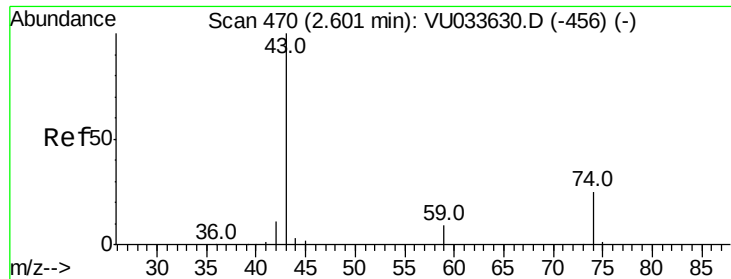
Tgt Ion: 76 Resp: 1214164

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7

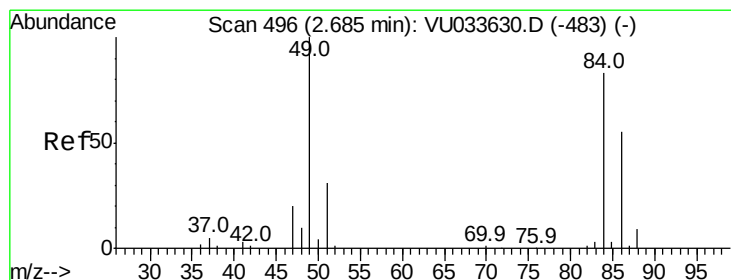
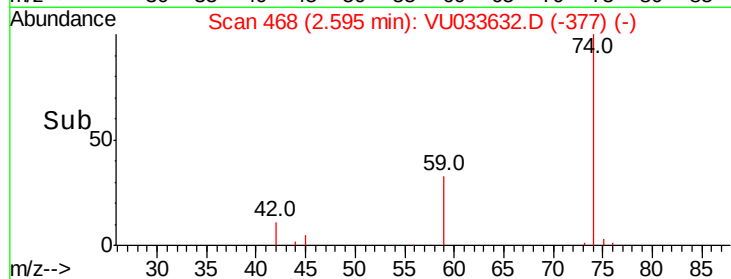
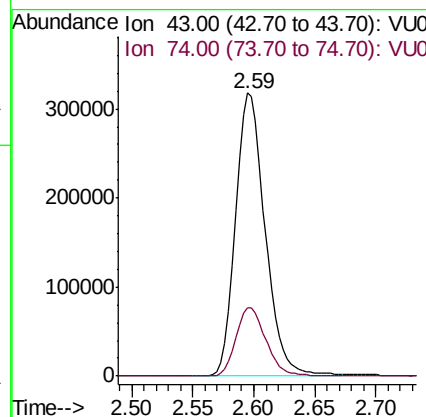
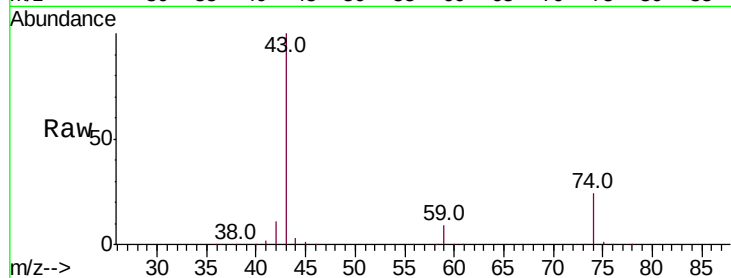




#15
Methyl Acetate
Concen: 204.914 ug/L
RT: 2.59 min Scan# 468
Delta R.T. -0.01 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

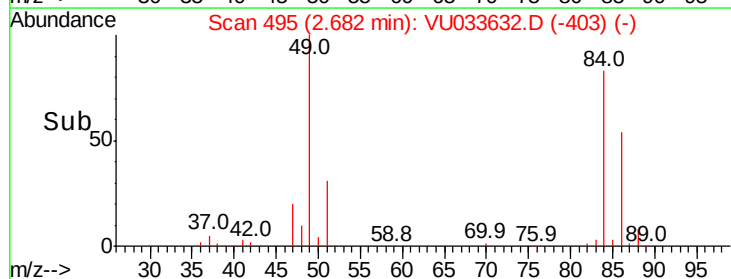
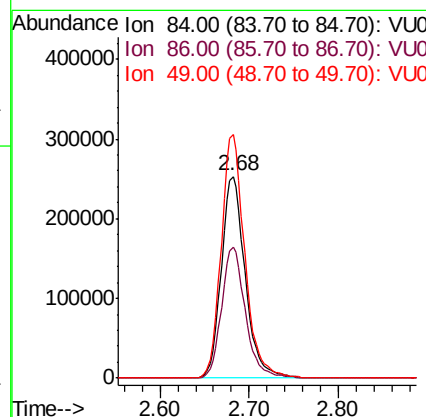
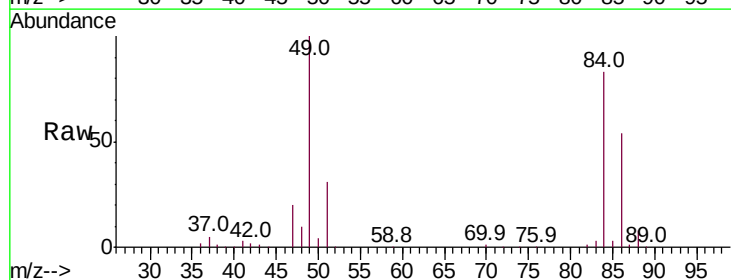
Instrument :
MSVOA_U
ClientSampleId :

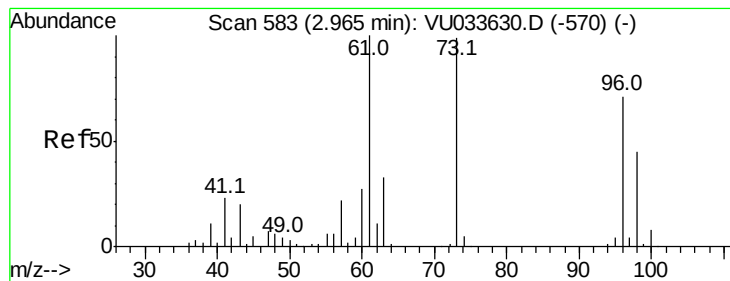
Tot Ion: 43 Resp: 535711
Ion Ratio Lower Upper
43 100
74 24.9 19.5 29.3



#16
Methylene chloride
Concen: 199.884 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Tgt Ion: 84 Resp: 469276
Ion Ratio Lower Upper
84 100
86 64.9 46.0 85.4
49 120.9 84.4 156.8





#17

trans-1,2-Dichloroethene

Concen: 201.630 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :
MSVOA_U
ClientSampled :

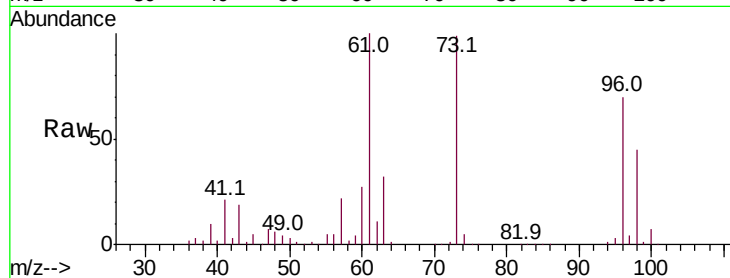
Tot Ion: 96 Resp: 432326

Ion Ratio Lower Upper

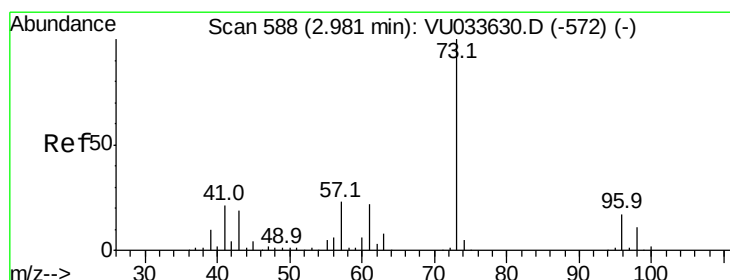
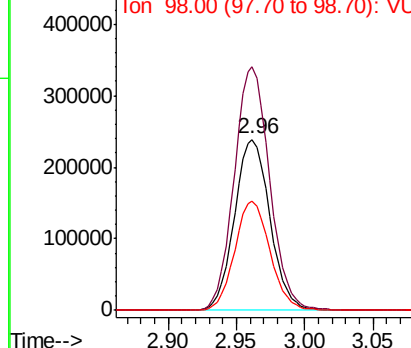
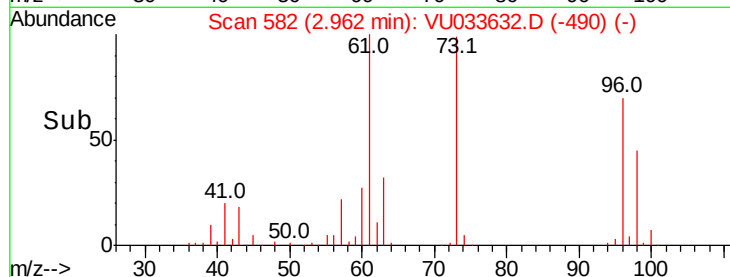
96 100

61 142.4 98.7 183.3

98 64.2 44.6 82.8



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: 214.002 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

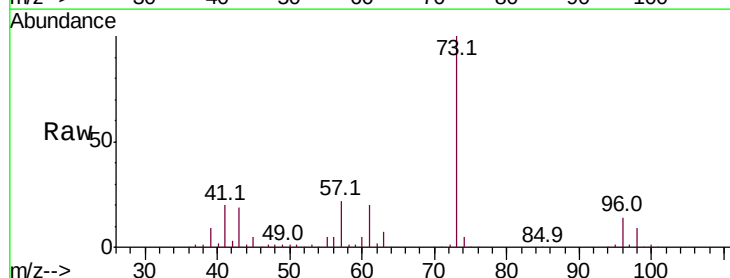
Tgt Ion: 73 Resp: 1422154

Ion Ratio Lower Upper

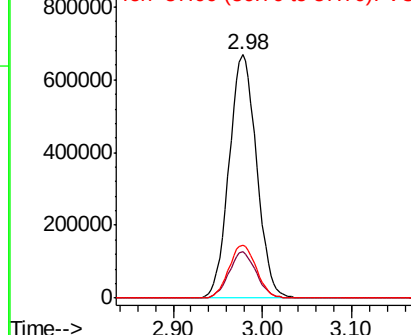
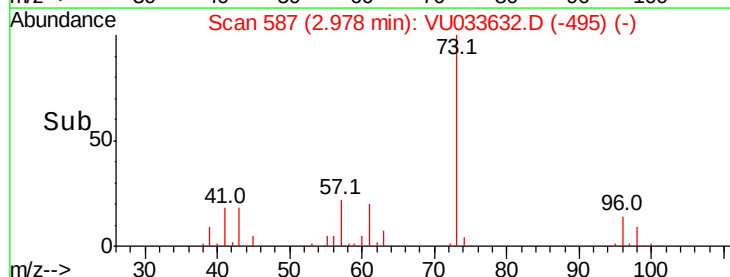
73 100

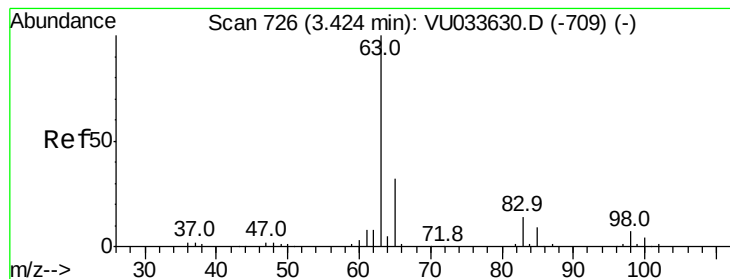
43 18.8 15.5 23.3

57 22.0 18.0 27.0



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: 201.488 ug/L

RT: 3.42 min Scan# 725

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

ClientSampled :

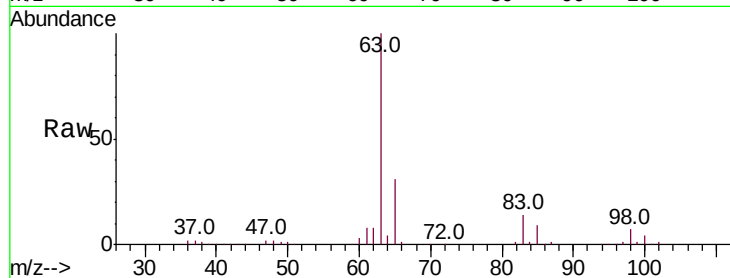
Tot Ion: 63 Resp: 818146

Ion Ratio Lower Upper

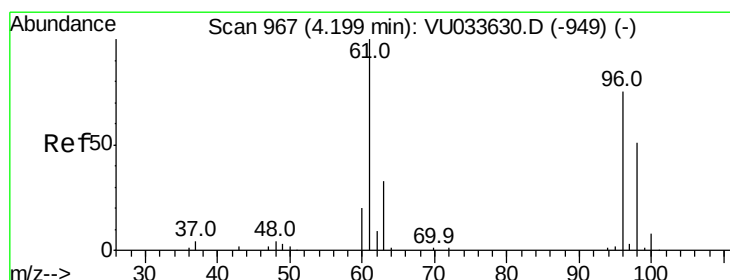
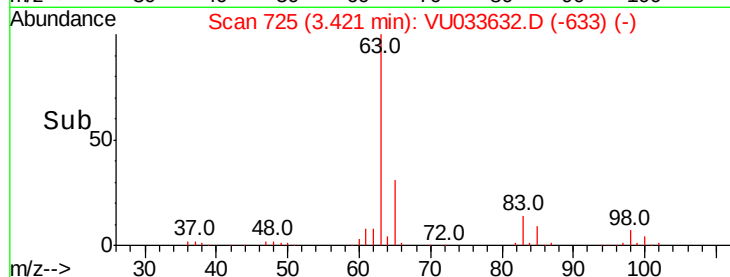
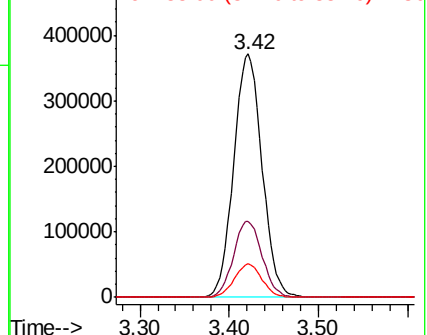
63 100

65 31.3 22.5 41.9

83 13.8 9.4 17.6



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: 211.217 ug/L

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

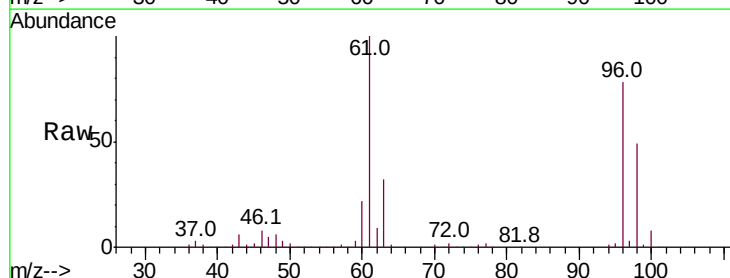
Tgt Ion: 96 Resp: 500693

Ion Ratio Lower Upper

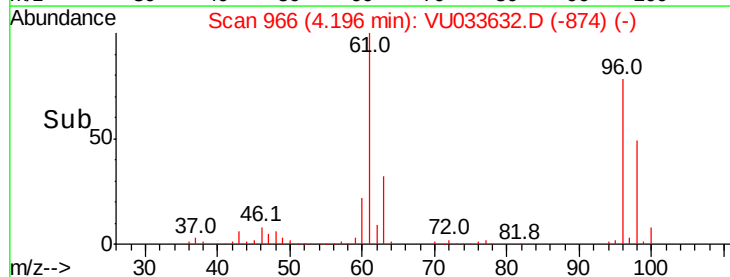
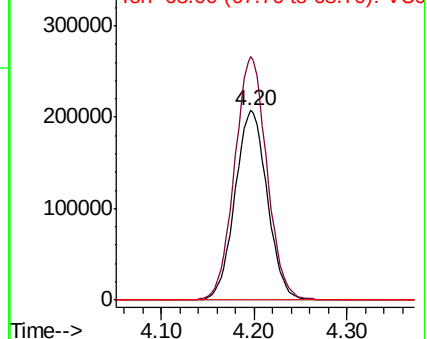
96 100

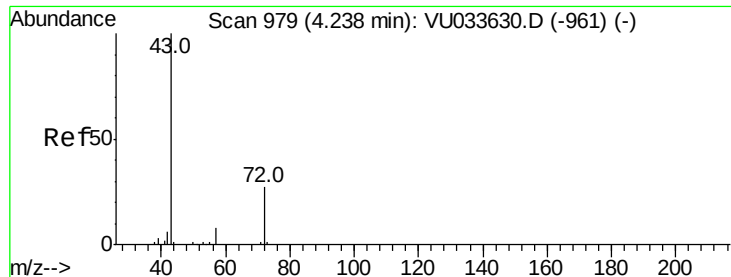
61 128.6 93.0 172.8

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: 420.547 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

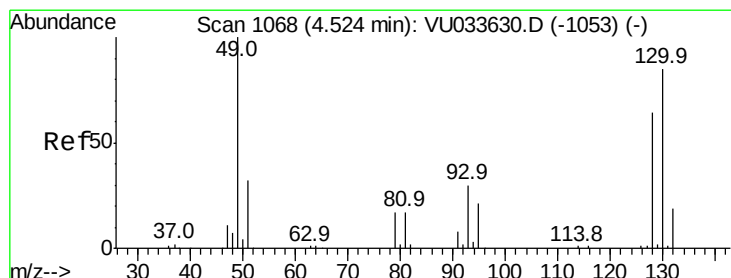
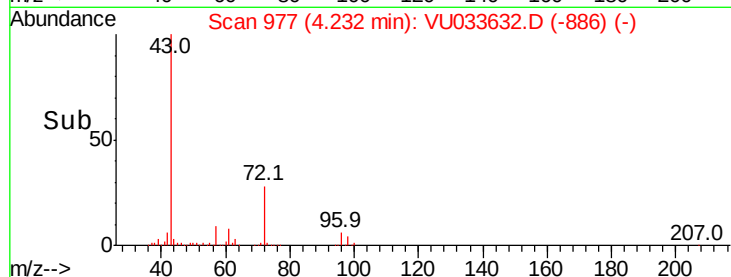
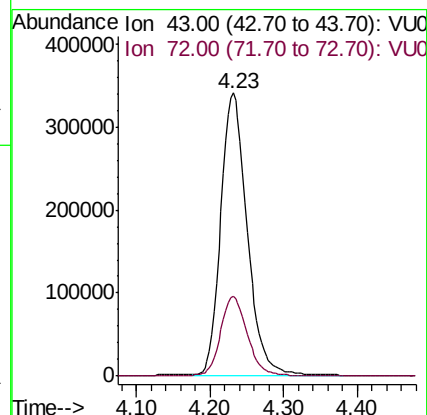
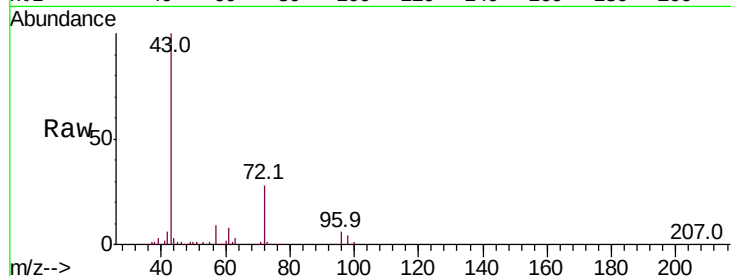
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 845571

Ion Ratio Lower Upper

43 100

72 28.8 14.4 43.4



#23

Bromochloromethane

Concen: 203.089 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Tgt Ion: 128 Resp: 251899

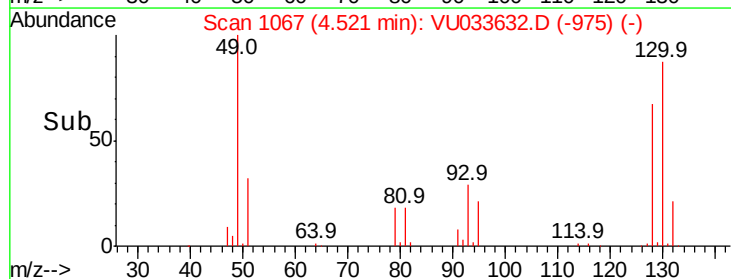
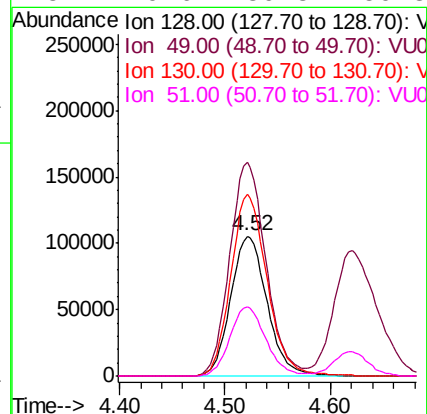
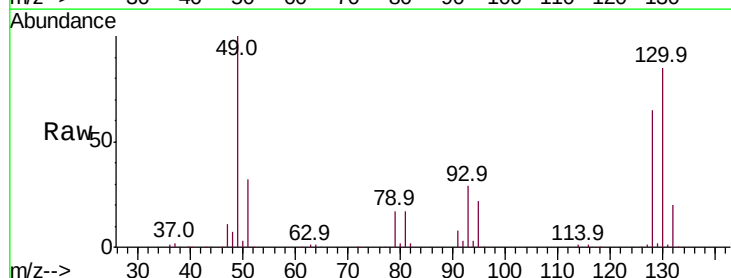
Ion Ratio Lower Upper

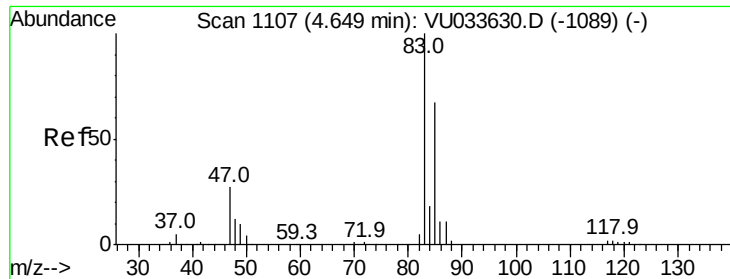
128 100

49 152.7 109.8 204.0

130 129.8 93.0 172.8

51 49.6 39.8 59.8

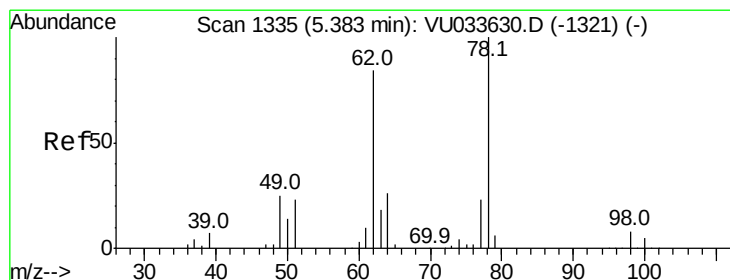
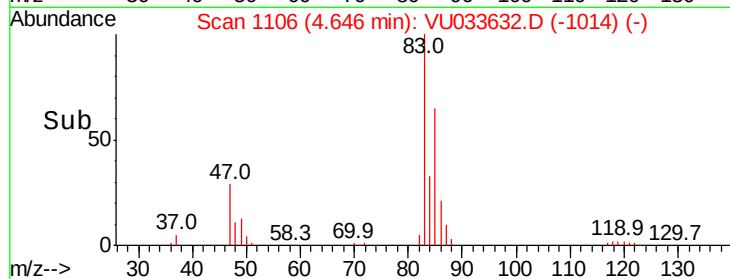
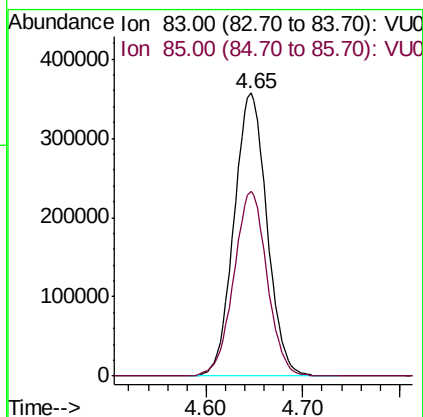
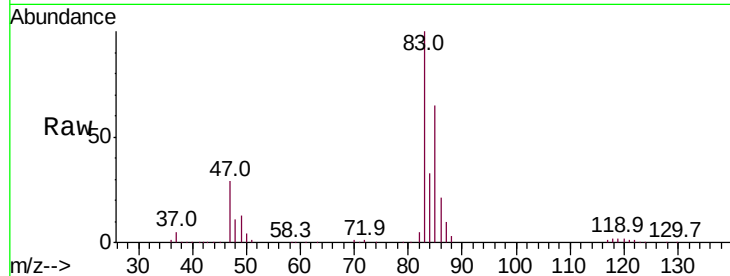




#25
Chloroform
Concen: 200.543 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

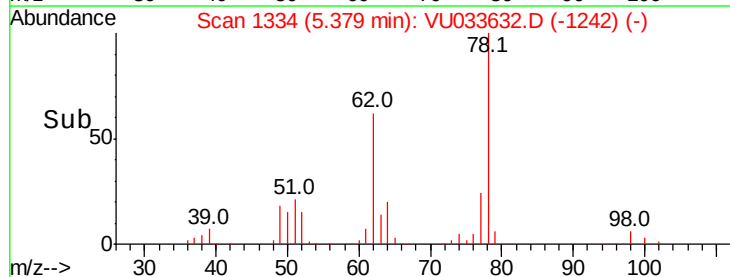
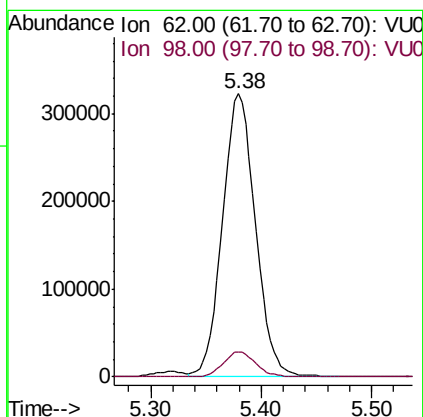
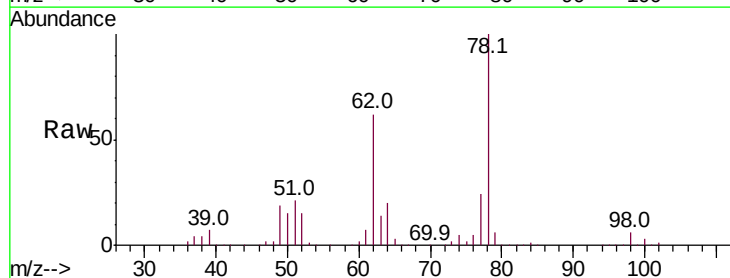
Instrument :
MSVOA_U
ClientSampled :

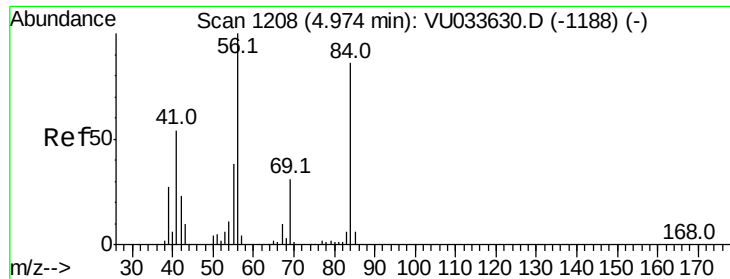
Tot Ion: 83 Resp: 844764
Ion Ratio Lower Upper
83 100
85 65.2 47.2 87.6



#27
1,2-Dichloroethane
Concen: 202.982 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Tgt Ion: 62 Resp: 664918
Ion Ratio Lower Upper
62 100
98 8.9 7.4 11.2

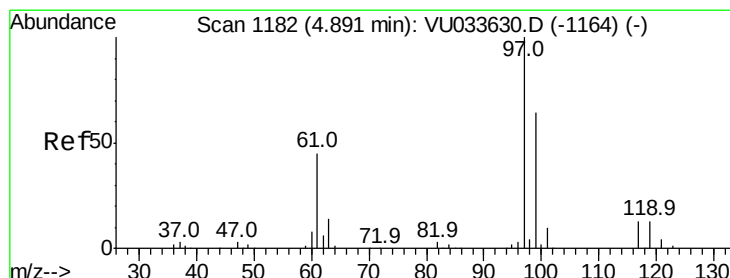
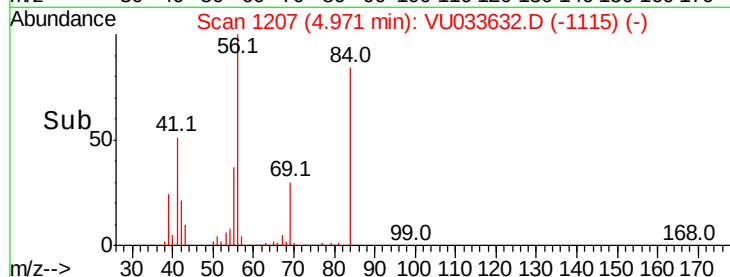
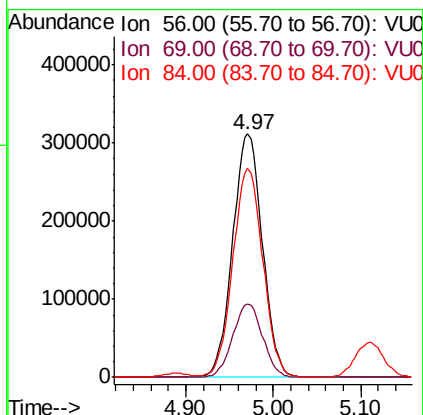
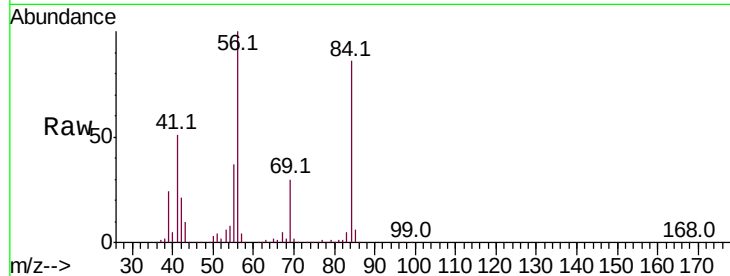




#29
Cyclohexane
Concen: 209.332 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

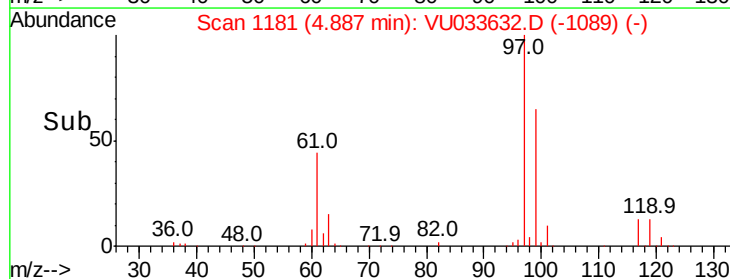
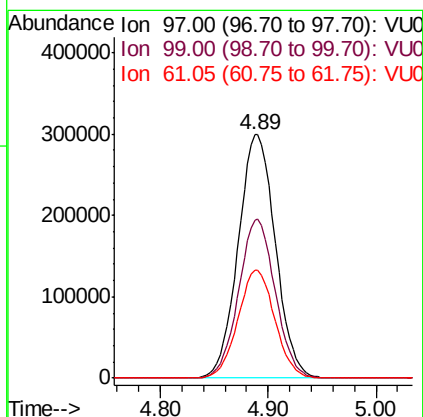
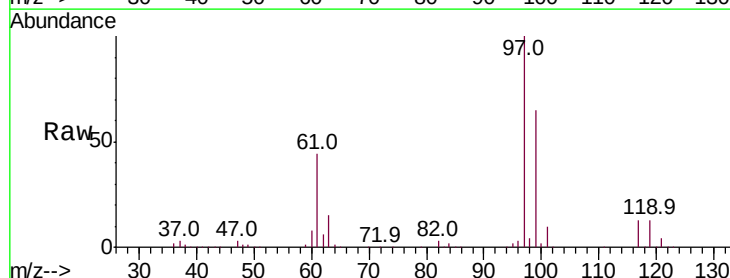
Instrument :
MSVOA_U
ClientSampleId :

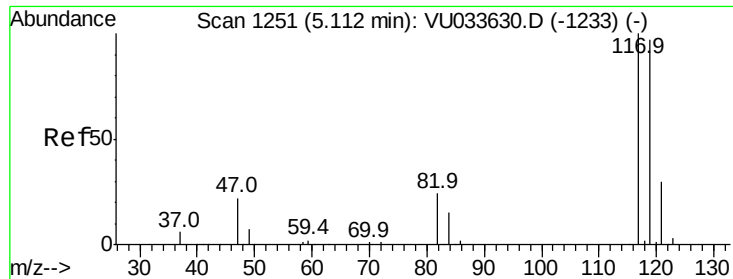
Tot Ion: 56 Resp: 736339
Ion Ratio Lower Upper
56 100
69 30.3 25.2 37.8
84 86.4 70.2 105.2



#30
1,1,1-Trichloroethane
Concen: 195.899 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Tgt Ion: 97 Resp: 718689
Ion Ratio Lower Upper
97 100
99 64.3 51.4 77.2
61 43.8 36.2 54.4

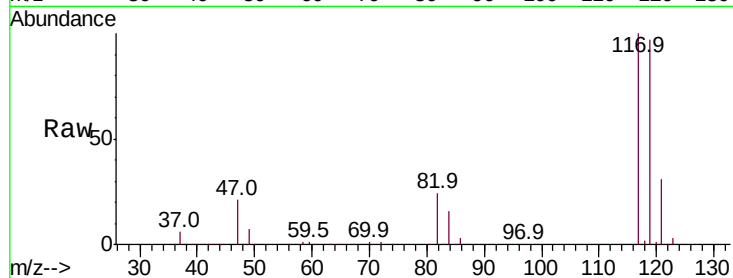




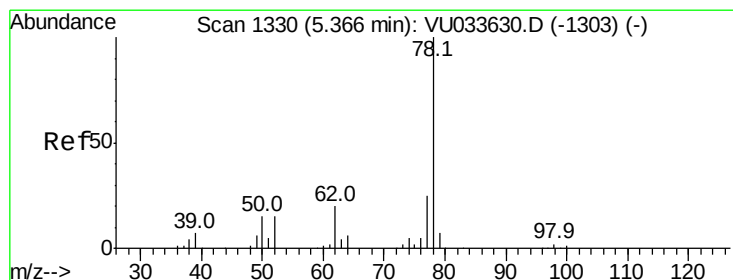
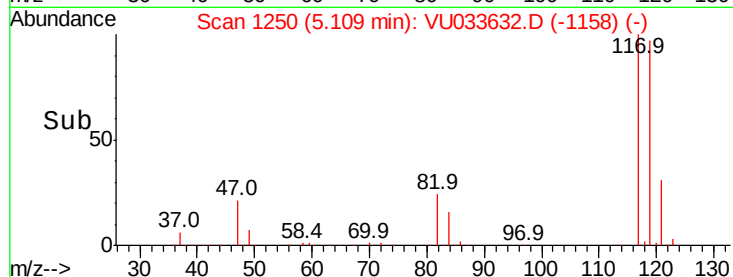
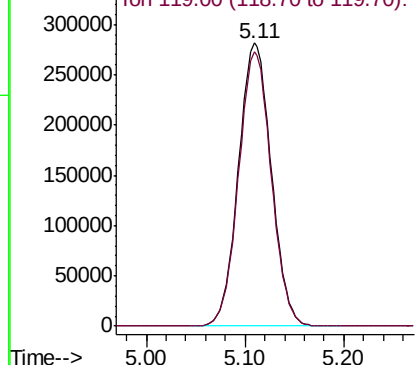
#31
Carbon tetrachloride
Concen: 201.231 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. -0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Instrument :
MSVOA_U
ClientSampleId :

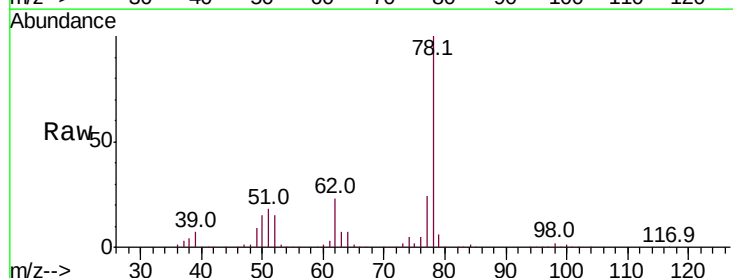
Tot Ion:117 Resp: 649254
Ion Ratio Lower Upper
117 100
119 96.2 77.2 115.8



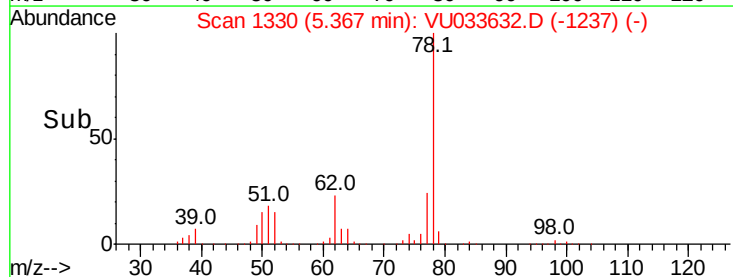
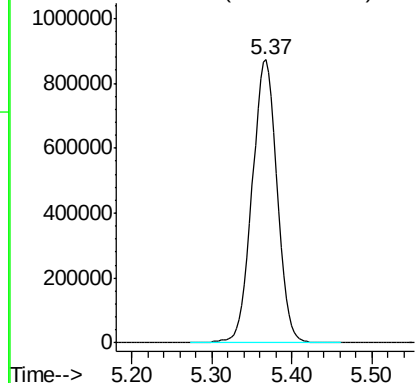
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

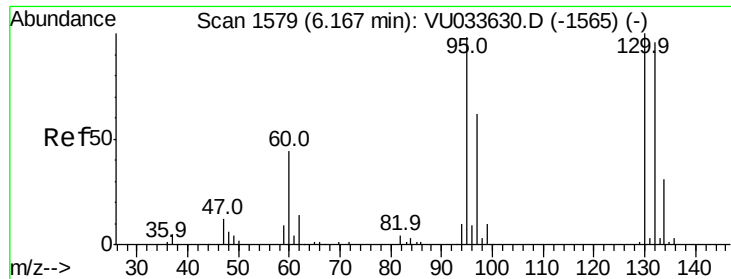


#33
Benzene
Concen: 199.067 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49
Tgt Ion: 78 Resp: 1847789



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 200.704 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 480067

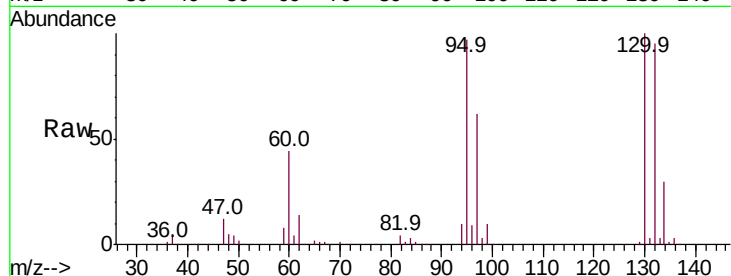
Ion Ratio Lower Upper

95 100

97 63.7 44.4 82.5

132 97.6 69.1 128.3

130 102.6 71.7 133.3

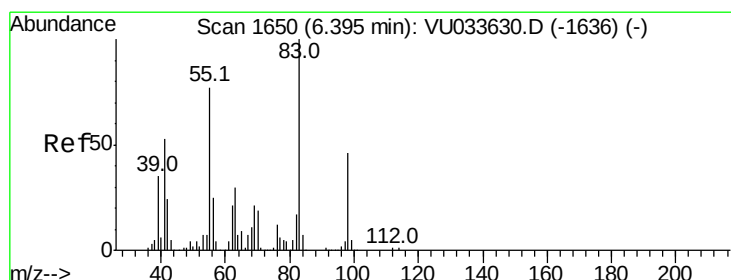
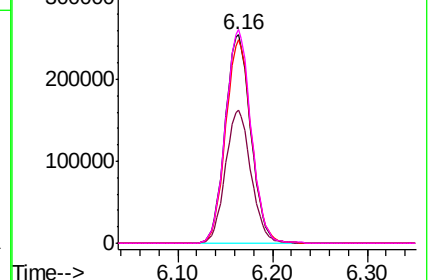
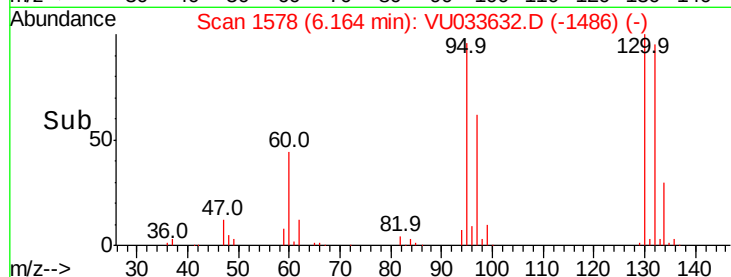


Abundance Ion 95.00 (94.70 to 95.70): VU033632.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU033632.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU033632.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU033632.D (-1565) (-)



#35

Methylcyclohexane

Concen: 210.295 ug/L

RT: 6.40 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

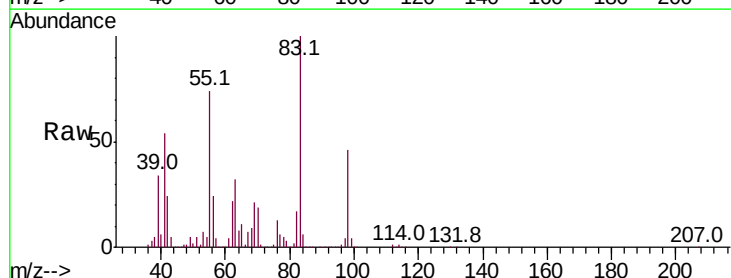
Tgt Ion: 83 Resp: 788656

Ion Ratio Lower Upper

83 100

55 74.2 61.3 91.9

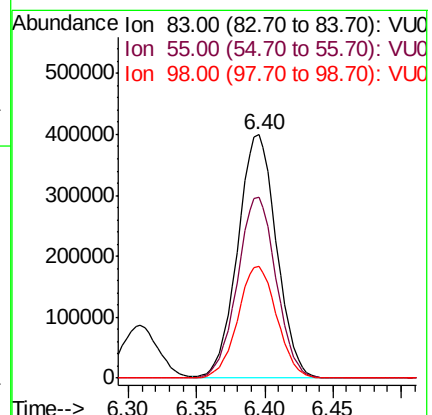
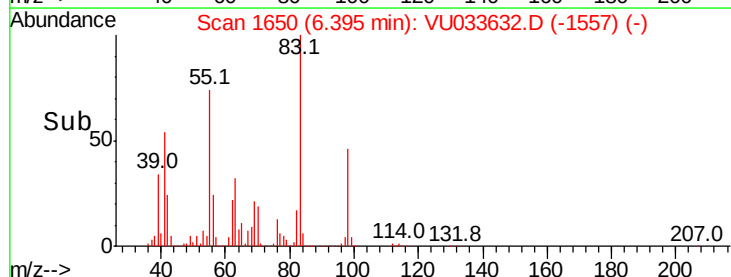
98 46.1 36.7 55.1

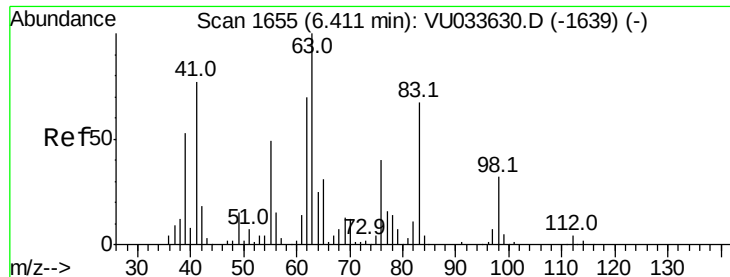


Abundance Ion 83.00 (82.70 to 83.70): VU033632.D (-1557) (-)

Ion 55.00 (54.70 to 55.70): VU033632.D (-1557) (-)

Ion 98.00 (97.70 to 98.70): VU033632.D (-1557) (-)

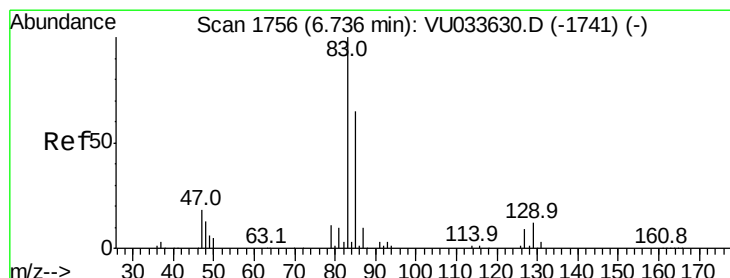
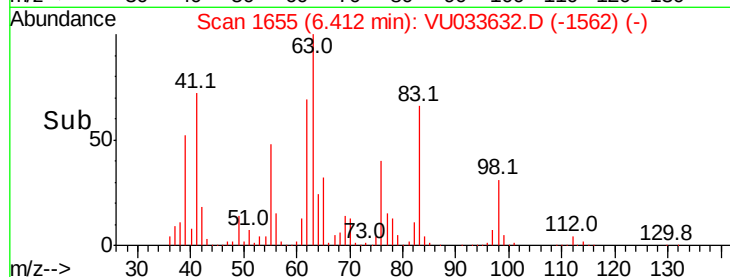
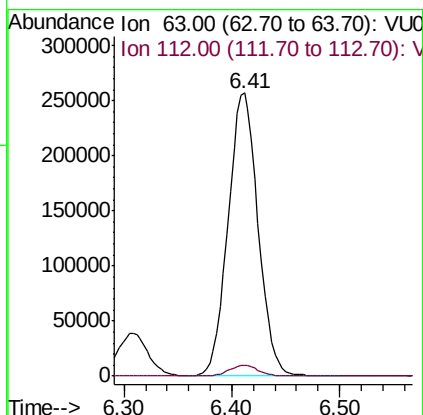
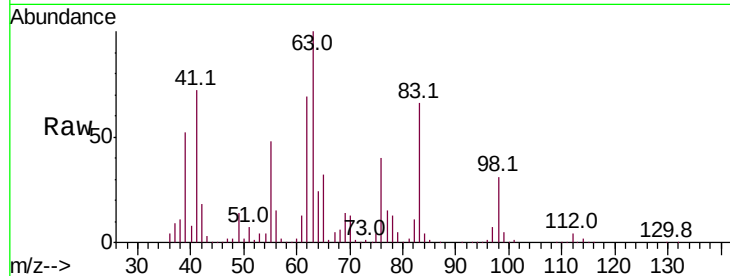




#37
 1,2-Dichloropropane
 Concen: 196.018 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

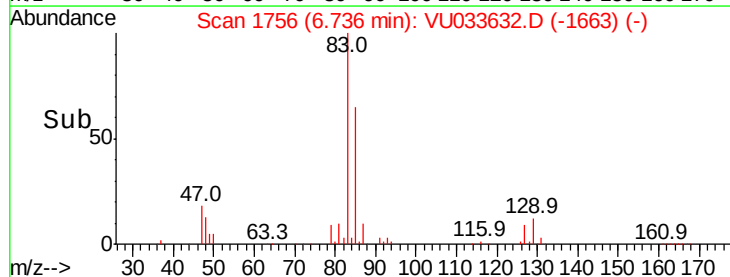
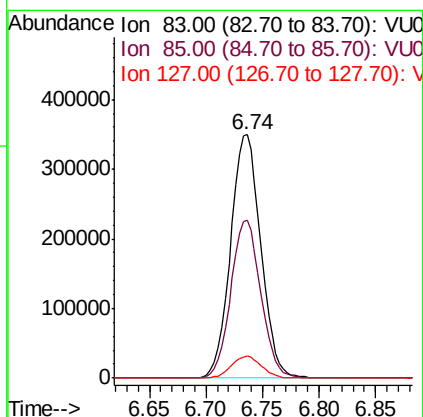
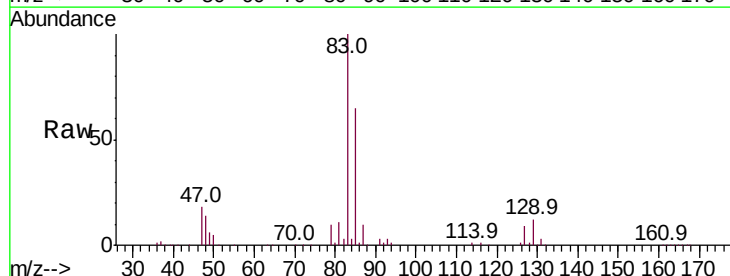
Instrument :
 MSVOA_U
 ClientSampled :

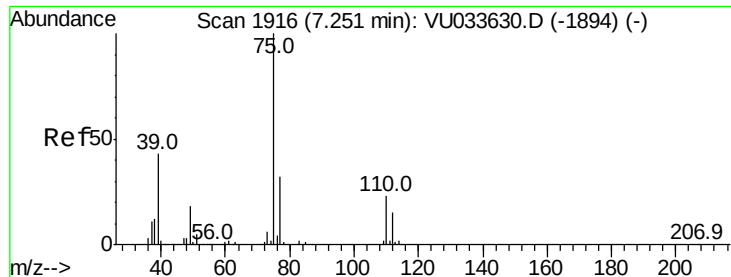
Tot Ion: 63 Resp: 497423
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.0 4.6



#38
 Bromodichloromethane
 Concen: 202.844 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Tgt Ion: 83 Resp: 649632
 Ion Ratio Lower Upper
 83 100
 85 64.6 45.6 84.6
 127 8.9 7.0 10.4



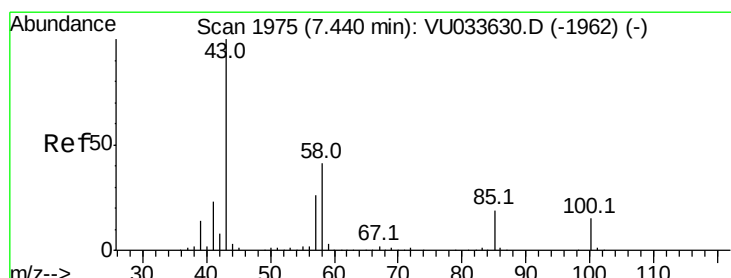
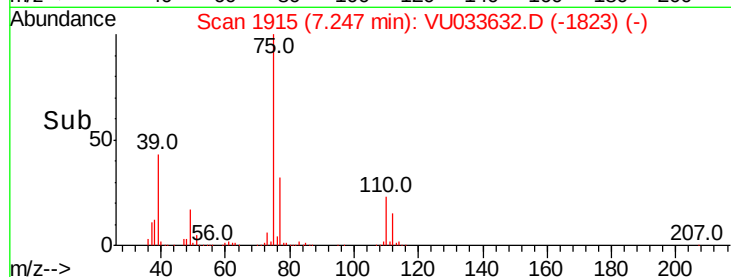
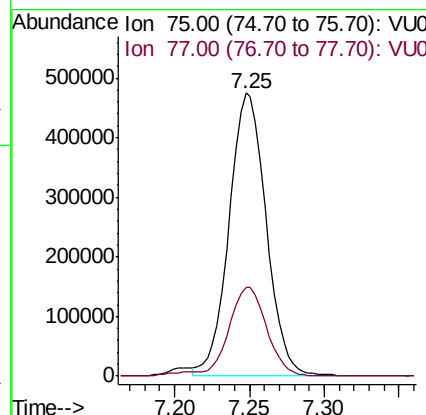
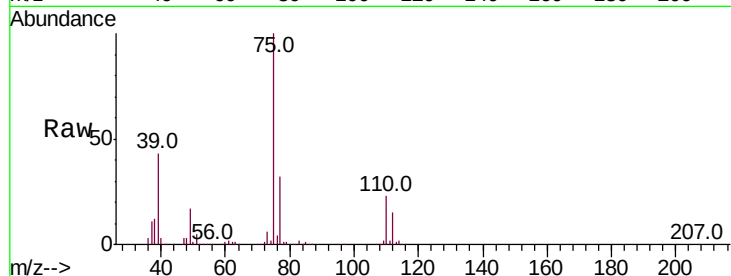


#39

cis-1,3-Dichloropropene
 Concen: 211.049 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Instrument :
 MSVOA_U
 ClientSampleId :

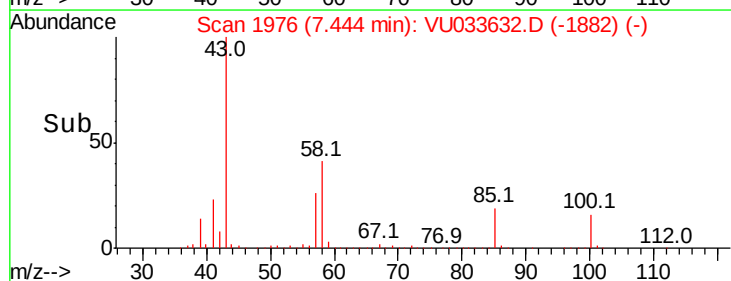
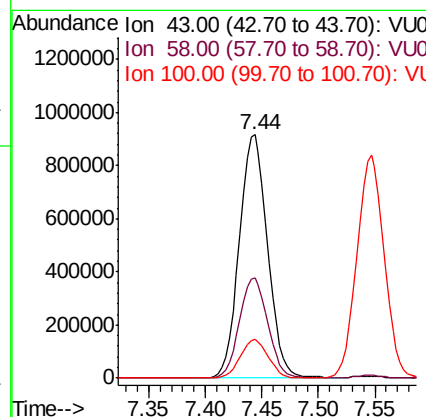
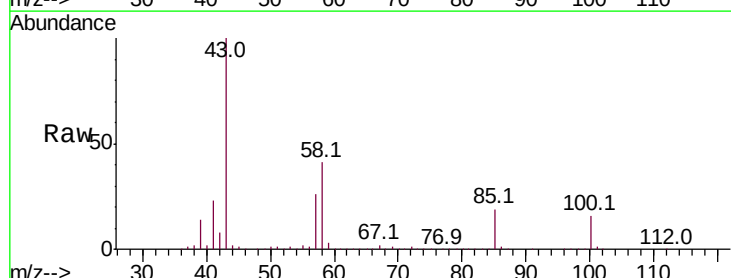
Tot Ion: 75 Resp: 816093
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.5 41.9

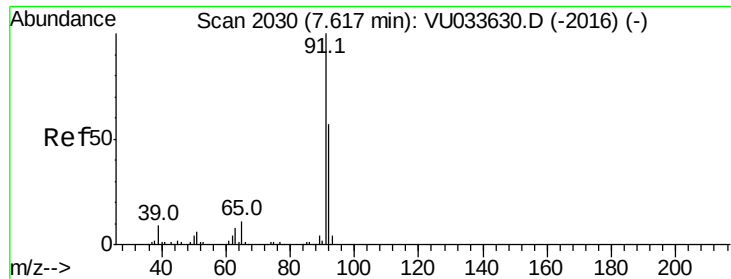


#40

4-Methyl-2-pentanone
 Concen: 438.490 ug/L
 RT: 7.44 min Scan# 1976
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Tgt Ion: 43 Resp: 1597556
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.7 49.1
 100 15.7 12.2 18.4





#42

Toluene

Concen: 206.541 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

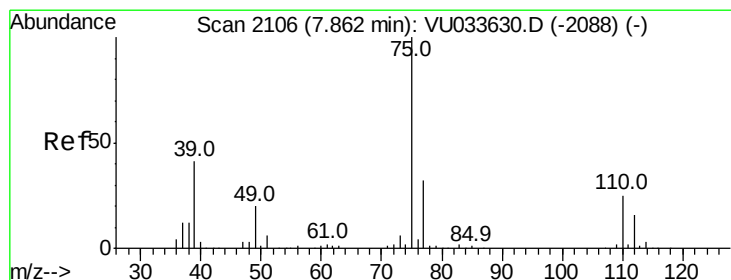
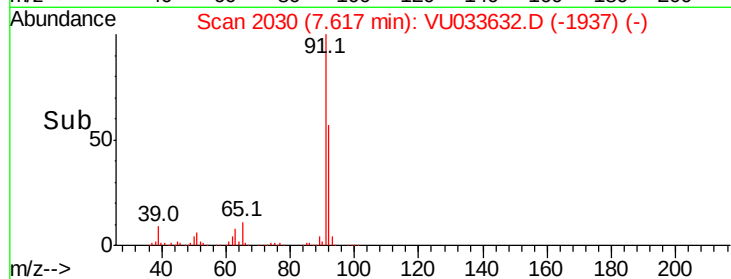
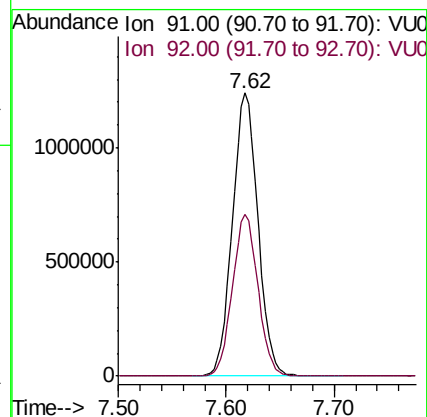
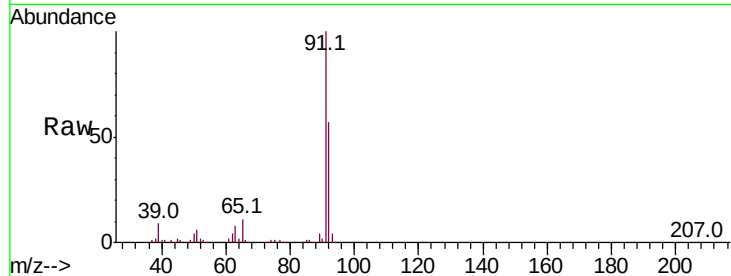
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 2048174

Ion Ratio Lower Upper

91 100

92 57.0 39.6 73.6



#44

trans-1,3-Dichloropropene

Concen: 216.510 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033632.D

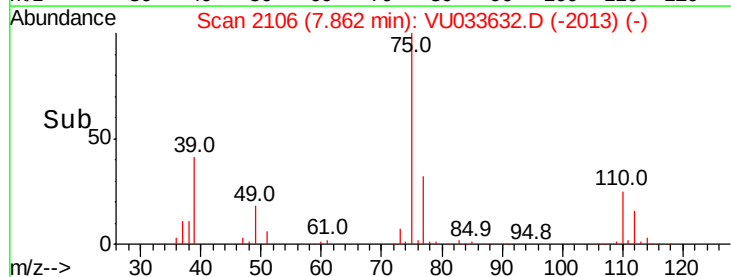
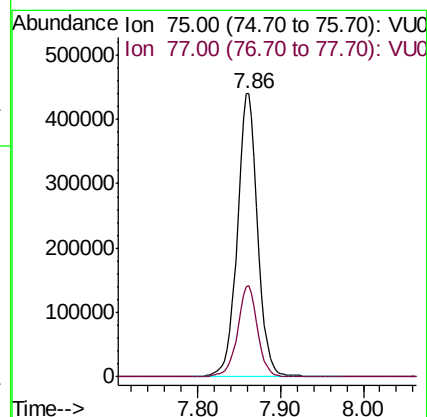
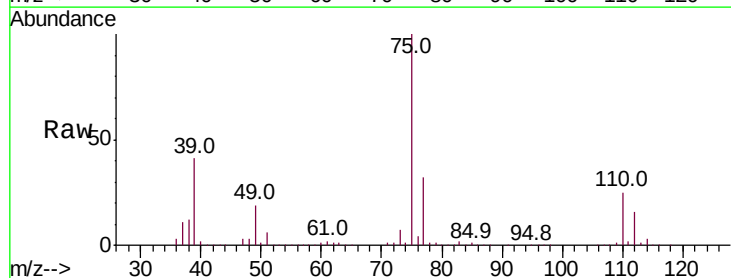
Acq: 08 Aug 2019 12:49

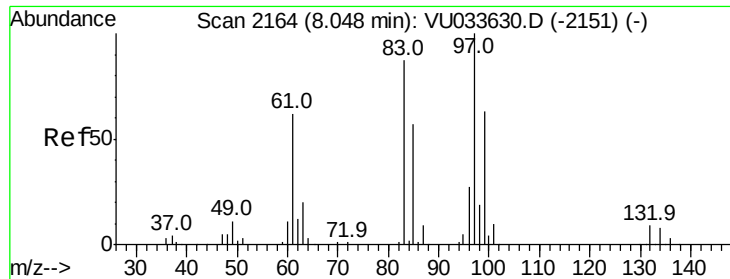
Tgt Ion: 75 Resp: 755933

Ion Ratio Lower Upper

75 100

77 32.2 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 199.314 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 97 Resp: 474714

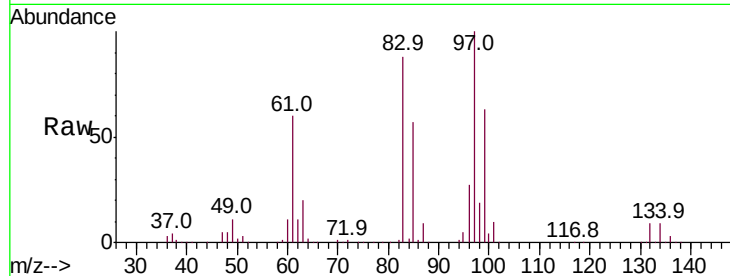
Ion Ratio Lower Upper

97 100

99 63.1 44.0 81.6

83 87.9 60.6 112.6

85 57.0 39.9 74.1



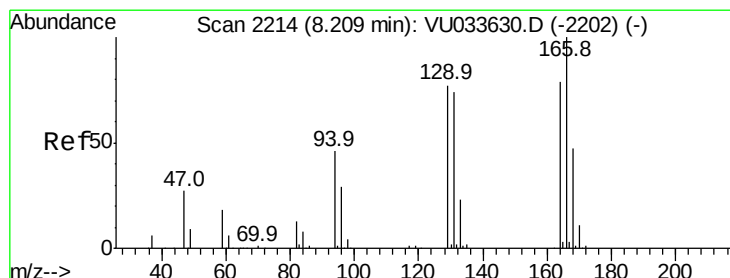
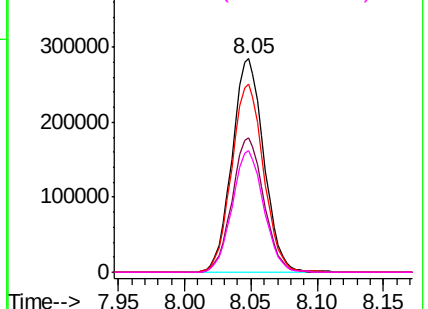
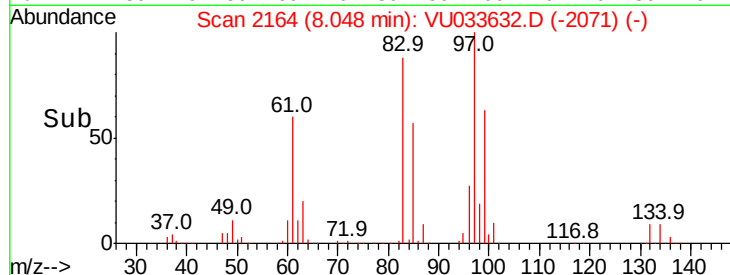
Abundance

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: 202.880 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Tgt Ion:164 Resp: 396743

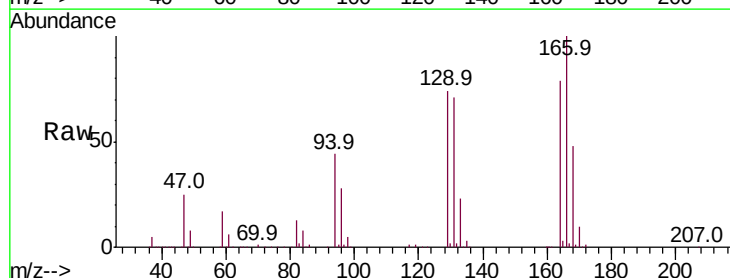
Ion Ratio Lower Upper

164 100

129 94.6 68.1 126.5

131 90.4 65.5 121.6

166 127.0 88.5 164.3



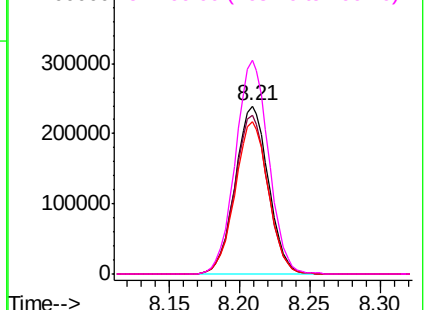
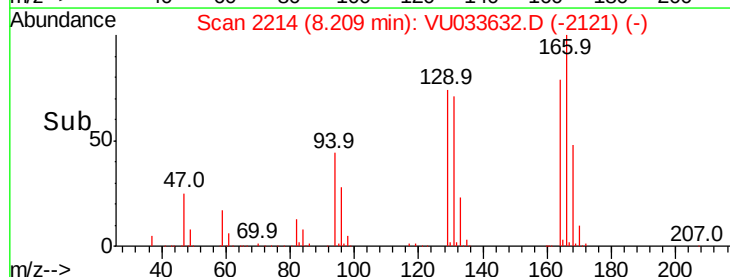
Abundance

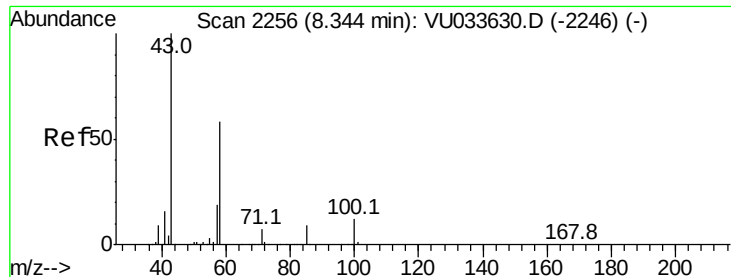
Ion 164.00 (163.70 to 164.70): V

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



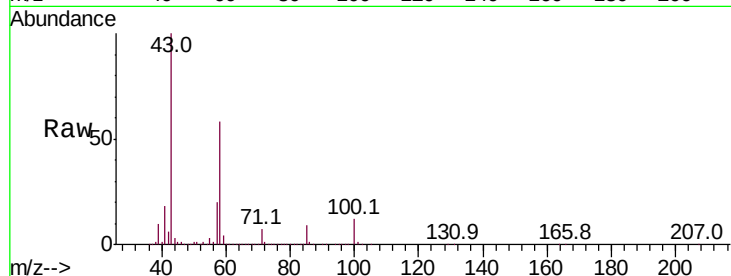


#48
2-Hexanone
Concen: 450.223 ug/L
RT: 8.35 min Scan# 2257
Delta R.T. 0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 1316849

Ion	Ratio	Lower	Upper
43	100		
58	58.3	44.8	67.2
57	19.9	15.5	23.3
100	12.1	9.4	14.2



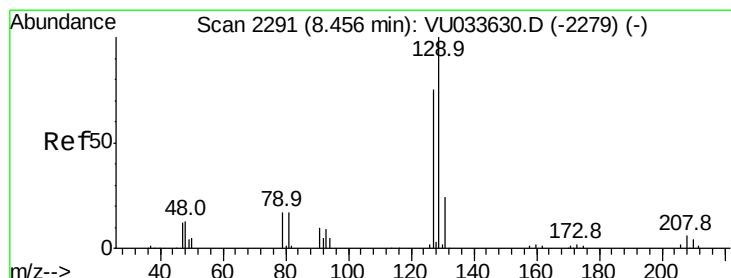
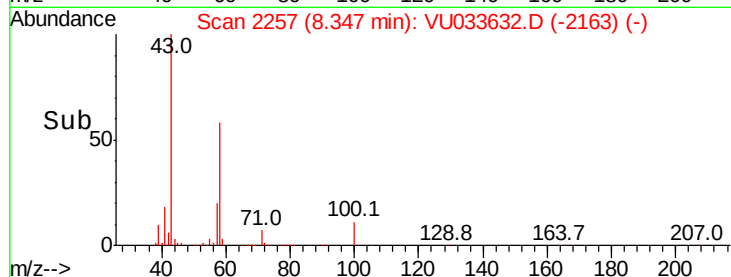
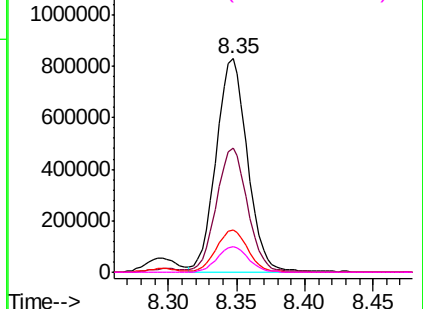
Abundance

Ion 43.00 (42.70 to 43.70): VU033632.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU033632.D (-2163) (-)

Ion 57.00 (56.70 to 57.70): VU033632.D (-2163) (-)

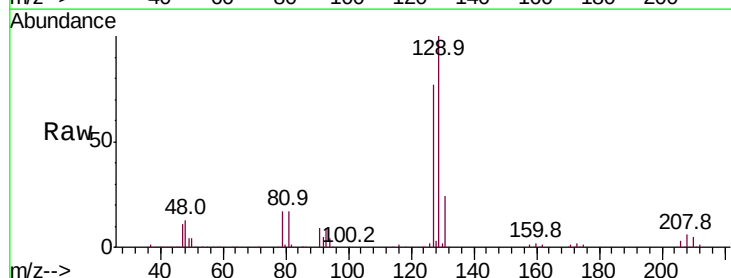
Ion 100.00 (99.70 to 100.70): VU033632.D (-2163) (-)



#49
Dibromochloromethane
Concen: 209.314 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Tgt Ion: 129 Resp: 560806

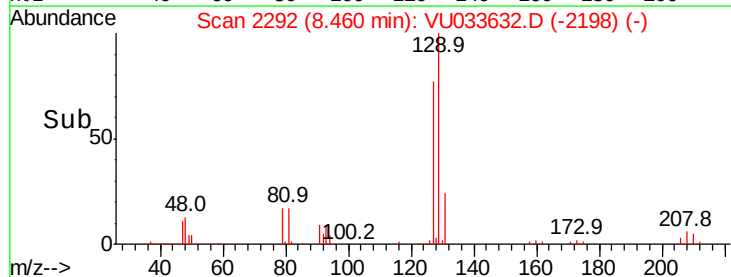
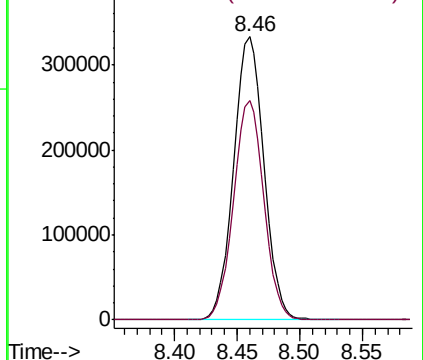
Ion	Ratio	Lower	Upper
129	100		
127	77.5	52.5	97.5

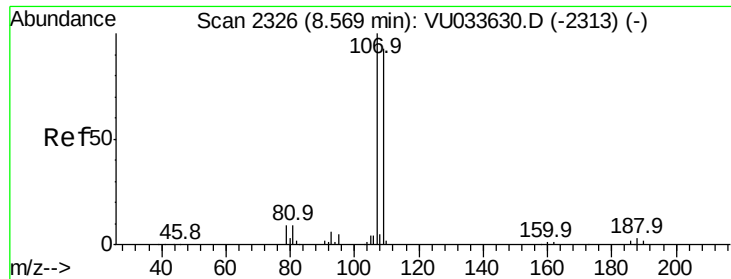


Abundance

Ion 129.00 (128.70 to 129.70): VU033632.D (-2198) (-)

Ion 127.00 (126.70 to 127.70): VU033632.D (-2198) (-)

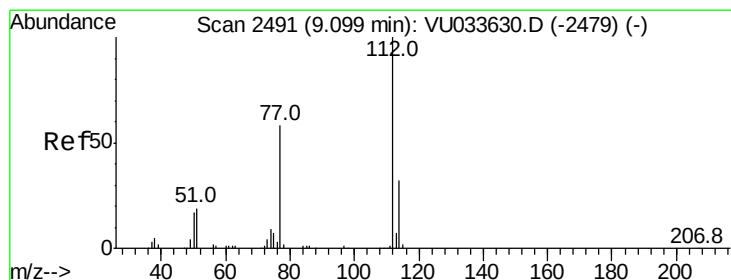
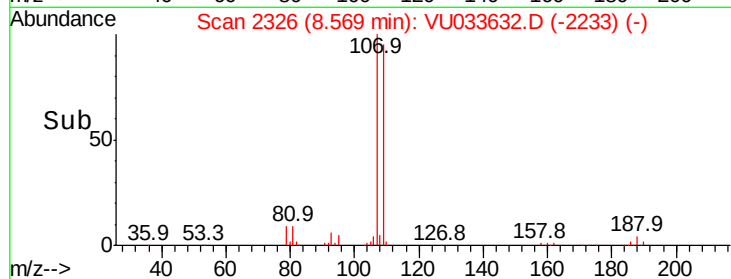
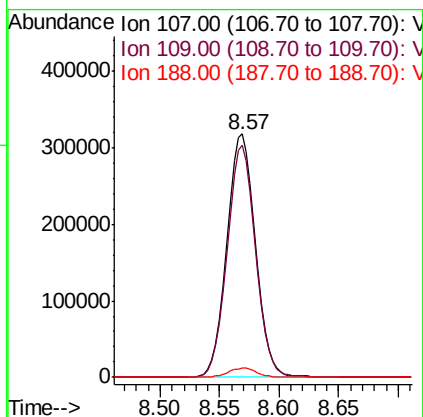
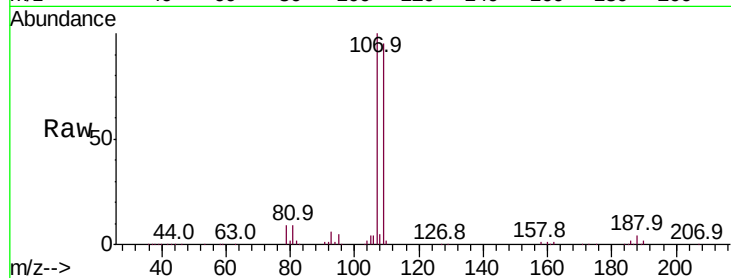




#50
1,2-Dibromoethane
Concen: 203.304 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. 0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

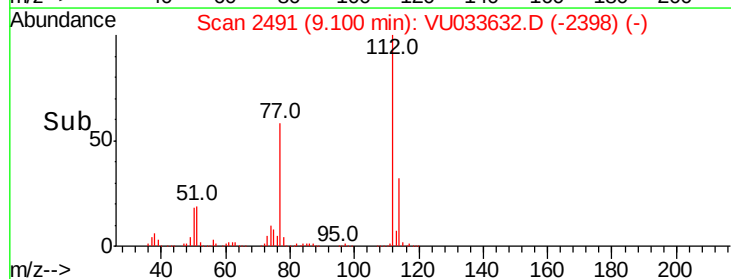
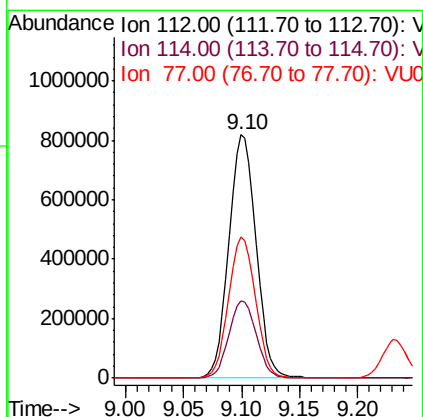
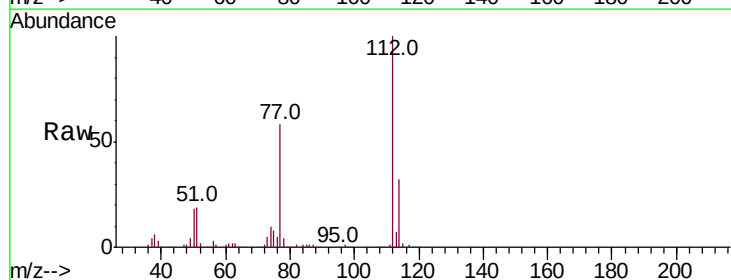
Instrument :
MSVOA_U
ClientSampleId :

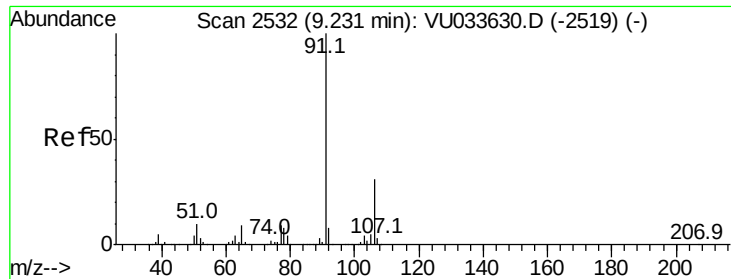
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.3	65.4	121.4
188	3.7	2.6	4.0



#51
Chlorobenzene
Concen: 204.318 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033632.D
Acq: 08 Aug 2019 12:49

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	22.7	42.1
77	57.9	47.2	70.8





#52

Ethylbenzene

Concen: 215.166 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

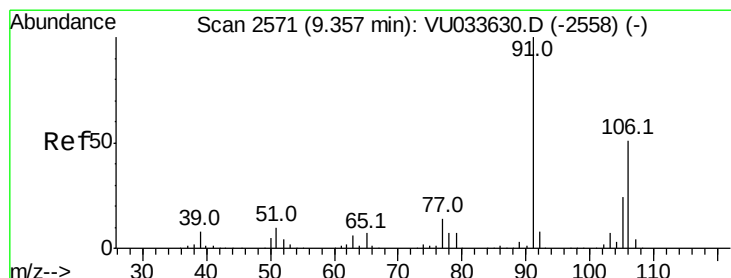
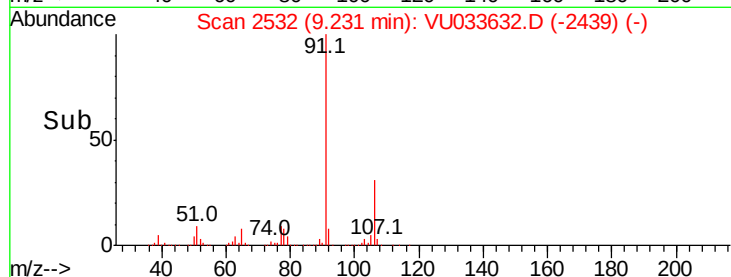
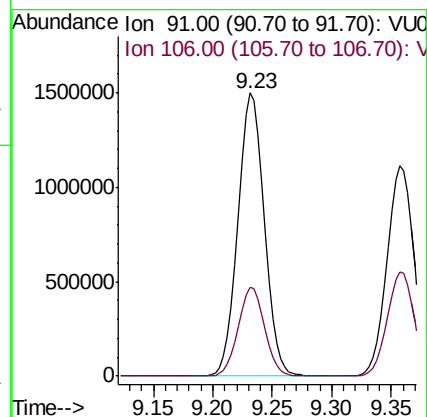
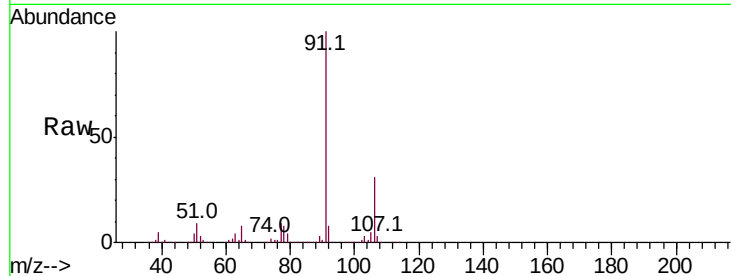
ClientSampleId :

Tot Ion: 91 Resp: 2313102

Ion Ratio Lower Upper

91 100

106 31.3 21.9 40.7



#53

m,p-Xylene

Concen: 215.009 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033632.D

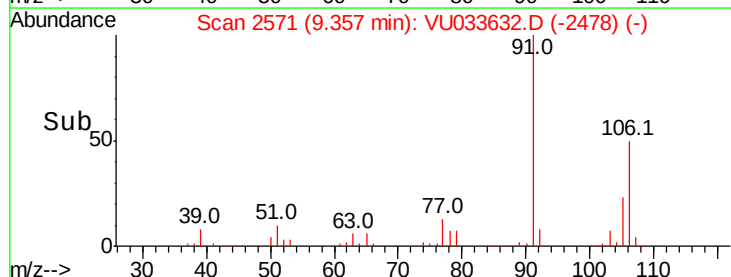
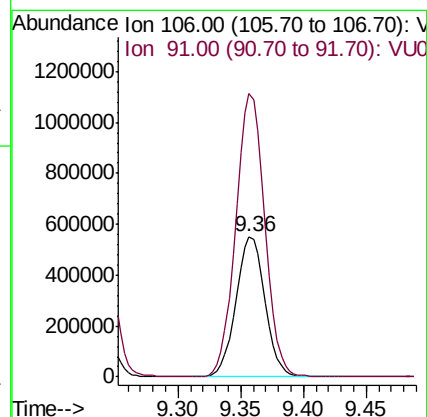
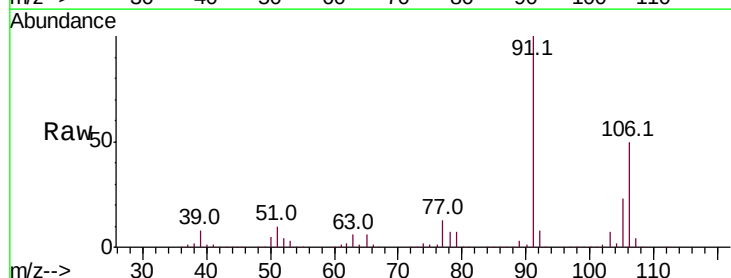
Acq: 08 Aug 2019 12:49

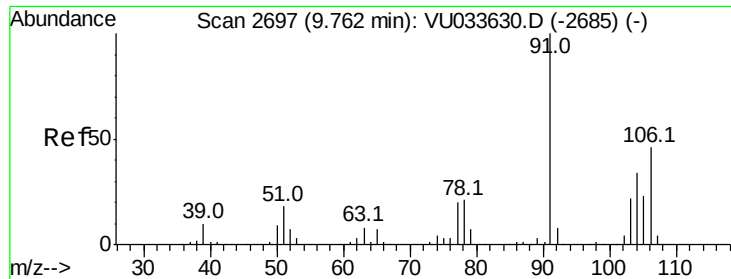
Tgt Ion: 106 Resp: 880308

Ion Ratio Lower Upper

106 100

91 201.6 138.5 257.3





#54

o-xylene

Concen: 222.293 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

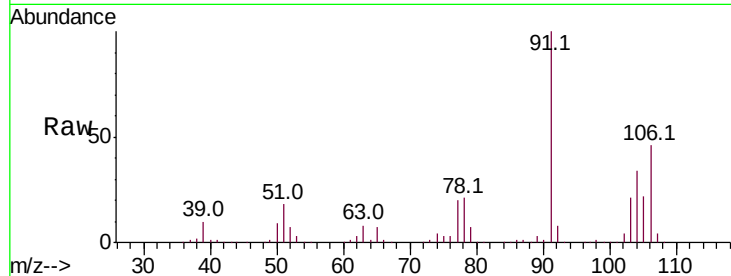
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 889873

Ion Ratio Lower Upper

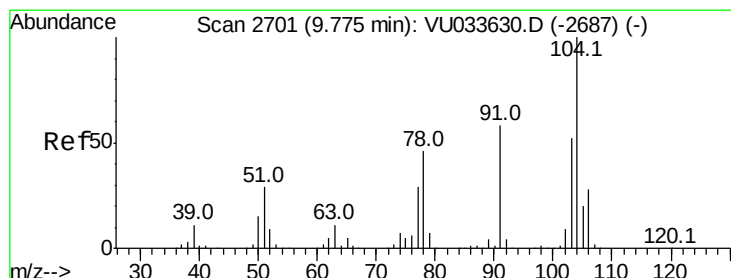
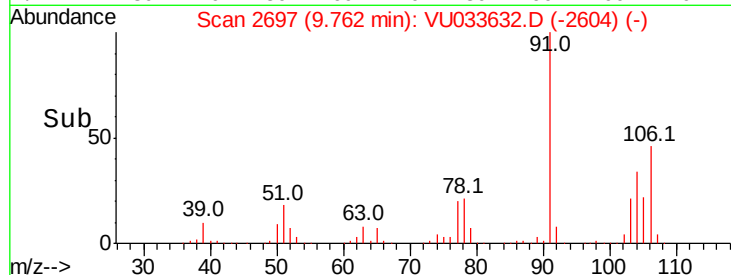
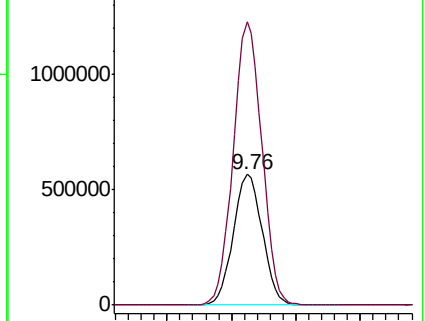
106 100

91 216.3 152.1 282.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 227.044 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033632.D

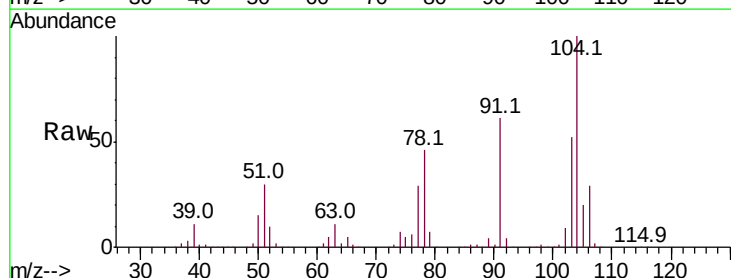
Acq: 08 Aug 2019 12:49

Tgt Ion:104 Resp: 1550457

Ion Ratio Lower Upper

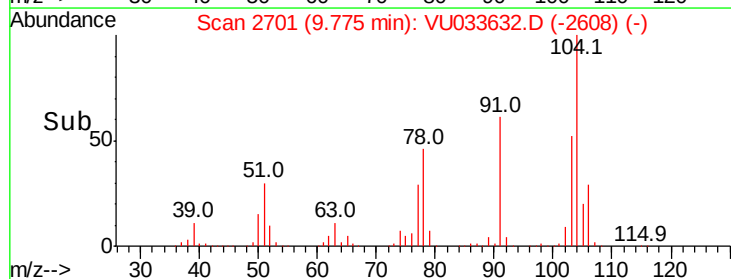
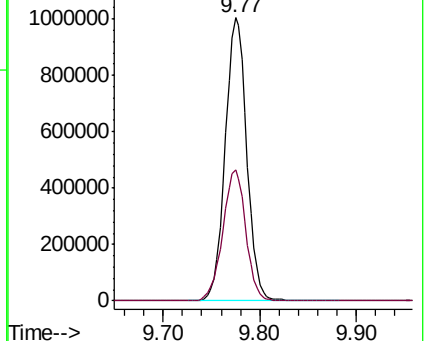
104 100

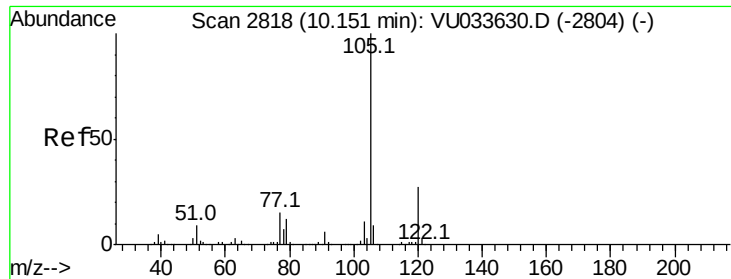
78 46.2 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 225.472 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

ClientSampleId :

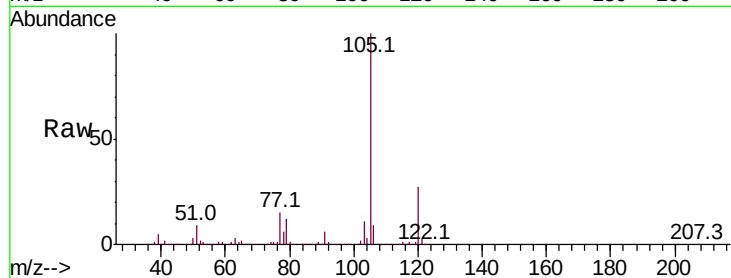
Tot Ion:105 Resp: 2333207

Ion	Ratio	Lower	Upper
105	100		
120	26.6	21.5	32.3
77	15.6	12.4	18.6

105 100

120 26.6 21.5 32.3

77 15.6 12.4 18.6

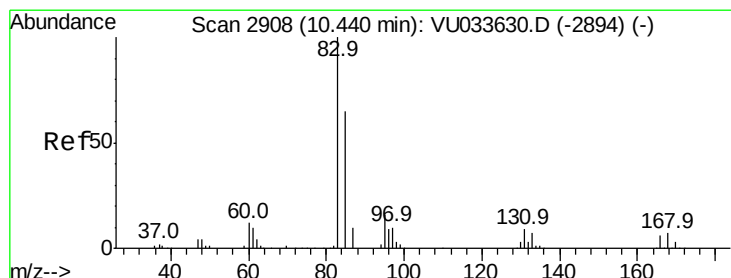
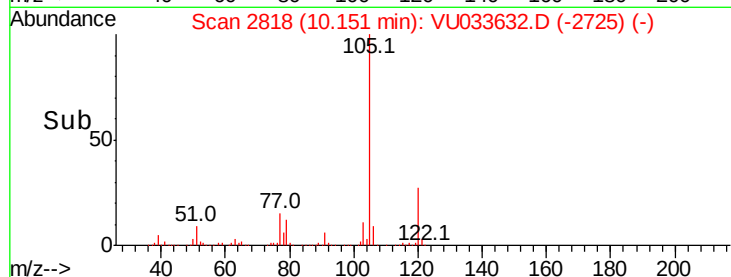
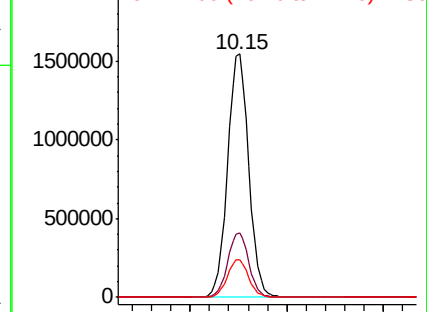


Abundance

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: 217.797 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

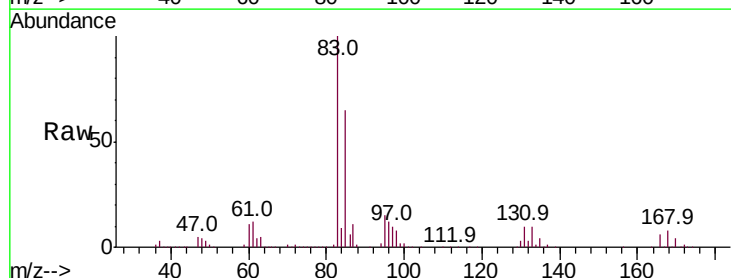
Tgt Ion: 83 Resp: 924274

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.7	84.9
131	9.8	7.7	11.5

83 100

85 64.9 45.7 84.9

131 9.8 7.7 11.5

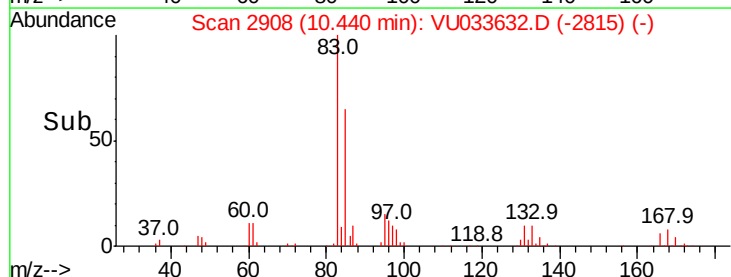
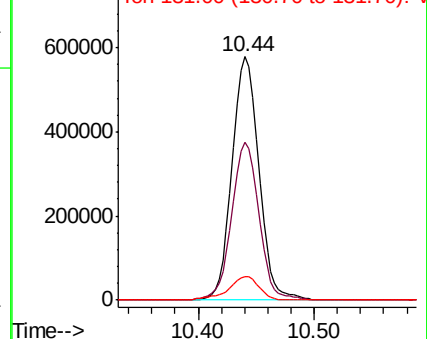


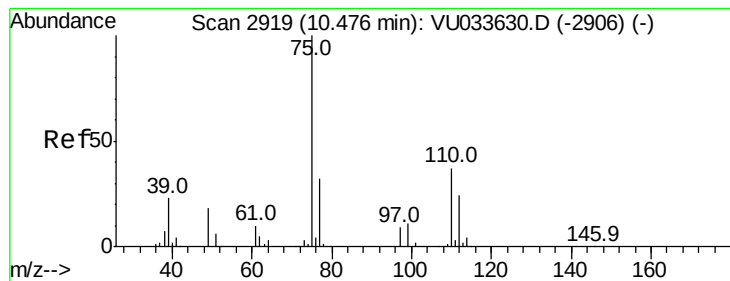
Abundance

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: 213.916 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

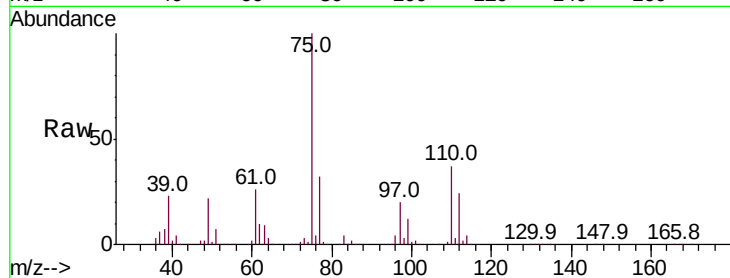
ClientSampled :

Tot Ion: 75 Resp: 713805

Ion Ratio Lower Upper

75 100

77 31.9 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VU033630.D (-2906) (-)

Ion 77.00 (76.70 to 77.70): VU033630.D (-2906) (-)

10.48

500000

400000

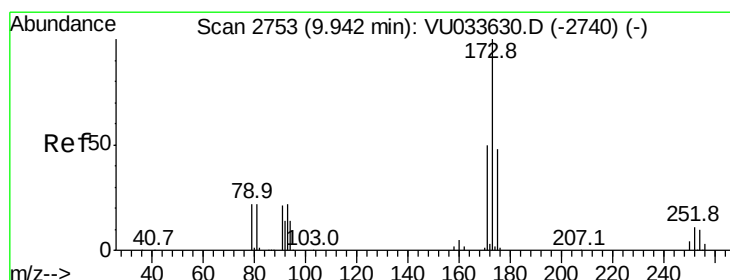
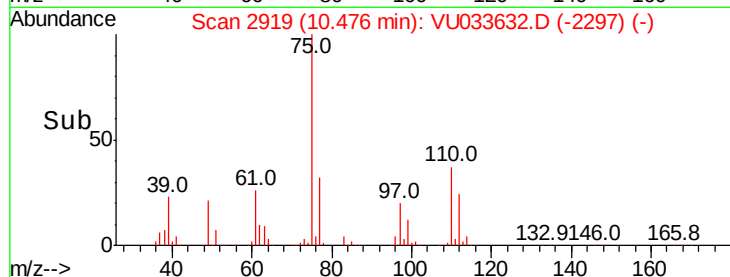
300000

200000

100000

0

Time-->



#61

Bromoform

Concen: 202.848 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. -0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

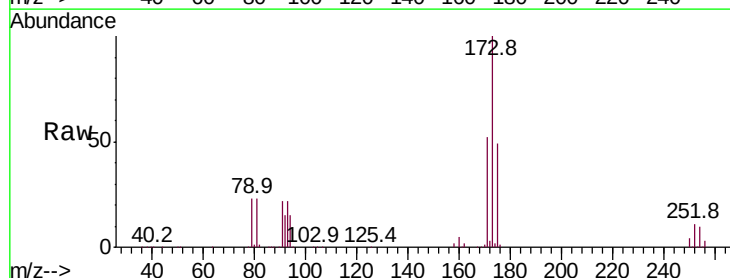
Tgt Ion:173 Resp: 463384

Ion Ratio Lower Upper

173 100

175 48.8 39.3 58.9

254 9.7 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VU033630.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033630.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033630.D (-2740) (-)

9.94

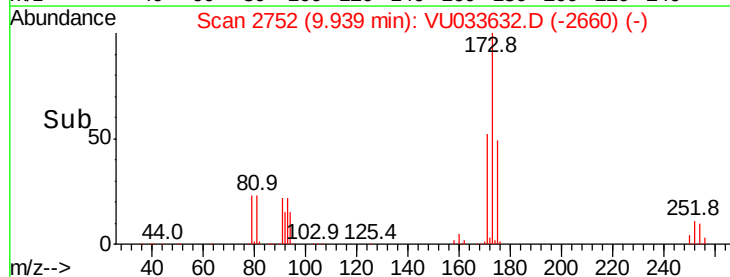
300000

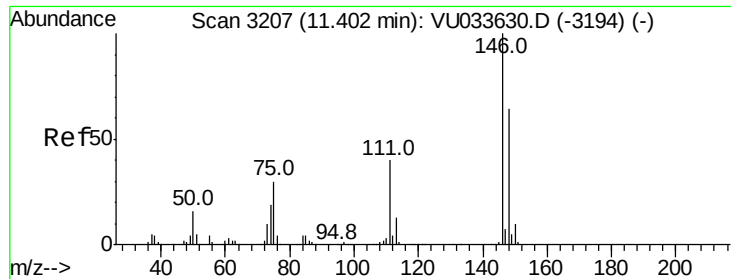
200000

100000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 203.502 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Instrument :

MSVOA_U

ClientSampleId :

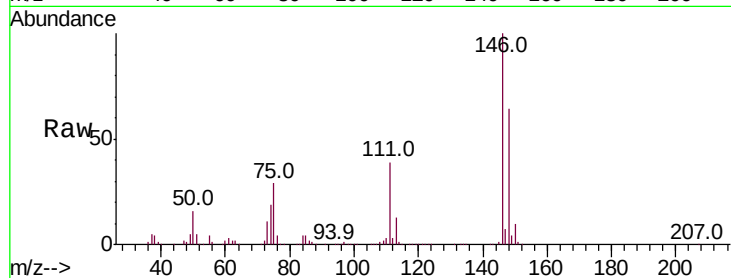
Tot Ion:146 Resp: 1169996

Ion Ratio Lower Upper

146 100

111 39.4 27.9 51.9

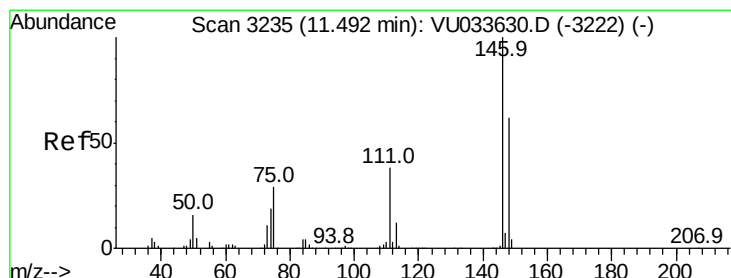
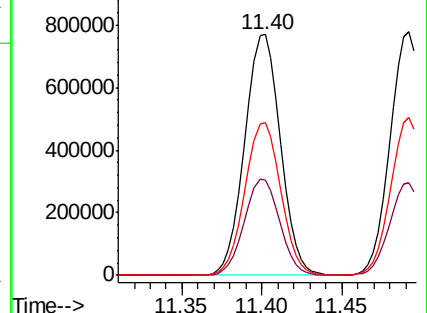
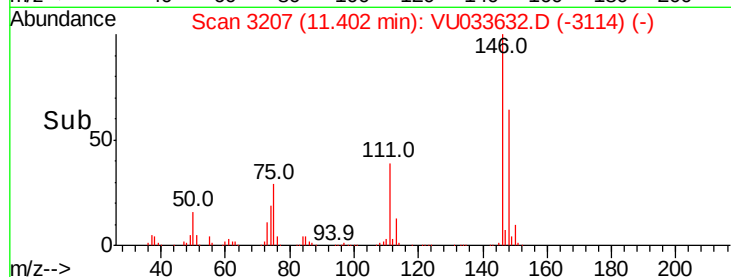
148 63.5 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 201.940 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

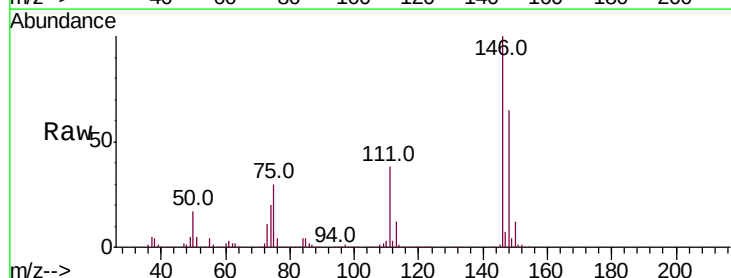
Tgt Ion:146 Resp: 1186665

Ion Ratio Lower Upper

146 100

111 37.9 26.8 49.8

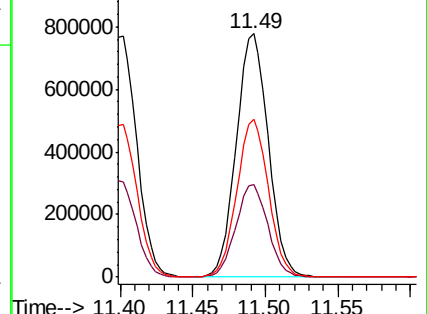
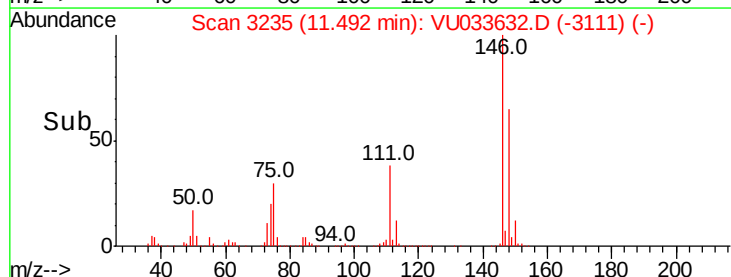
148 64.7 43.8 81.3

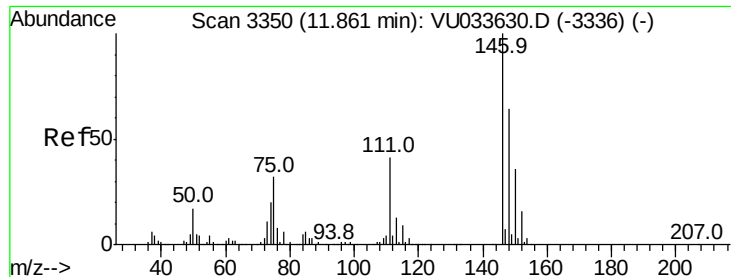


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

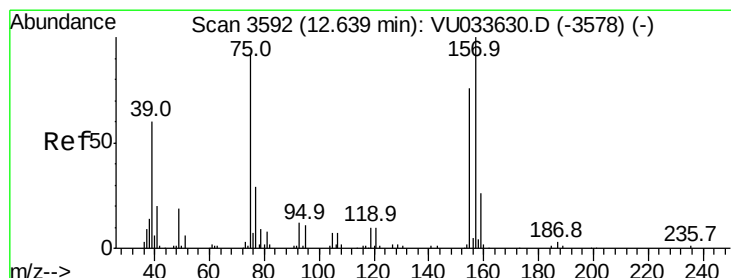
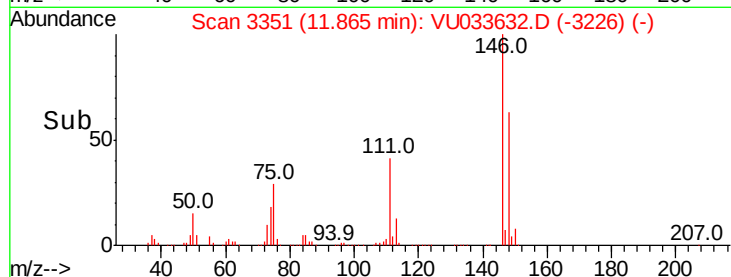
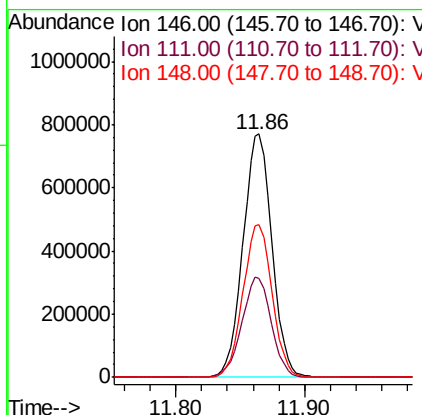
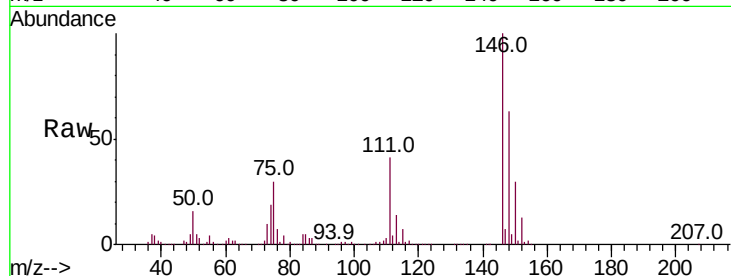




#65
 1,2-Dichlorobenzene
 Concen: 208.645 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

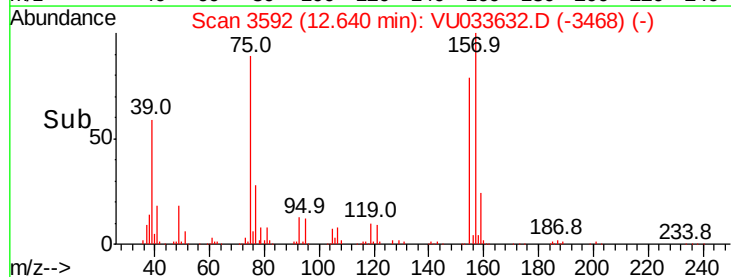
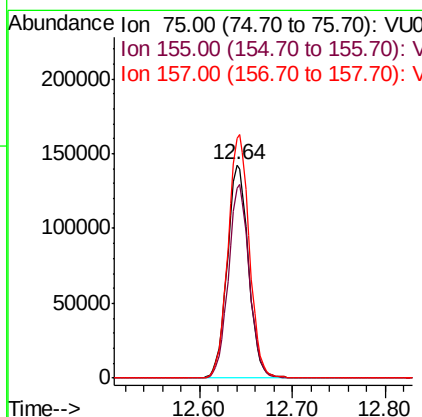
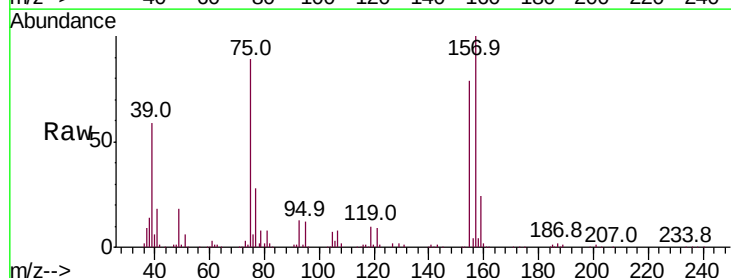
Instrument :
 MSVOA_U
 ClientSampleId :

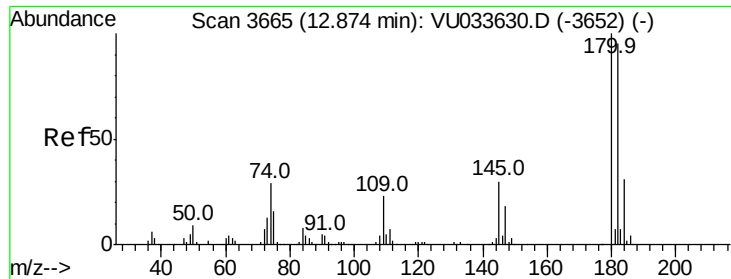
Tot Ion:146 Resp: 1201933
 Ion Ratio Lower Upper
 146 100
 111 40.8 33.0 49.4
 148 62.8 51.0 76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 210.359 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Tgt Ion: 75 Resp: 227254
 Ion Ratio Lower Upper
 75 100
 155 89.2 65.8 98.8
 157 112.3 86.9 130.3

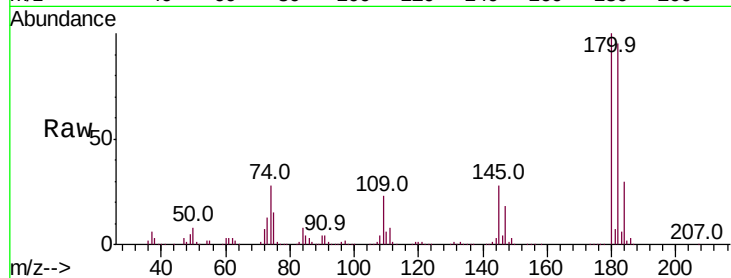




#67
 1,3,5-Trichlorobenzene
 Concen: 213.394 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.3	114.5
184	30.5	24.2	36.4
145	28.7	23.5	35.3



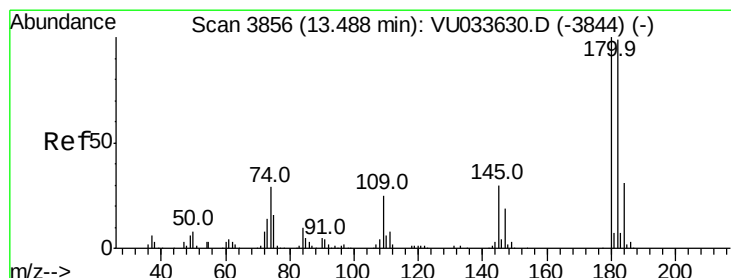
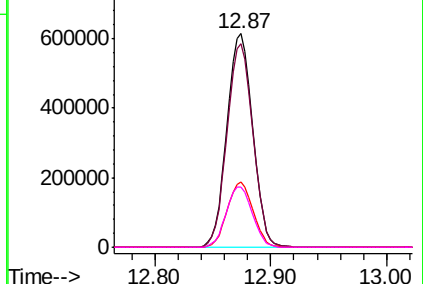
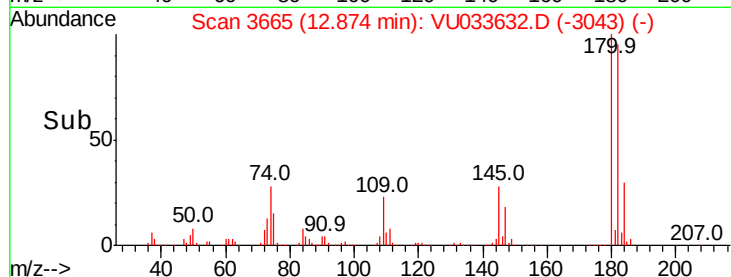
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

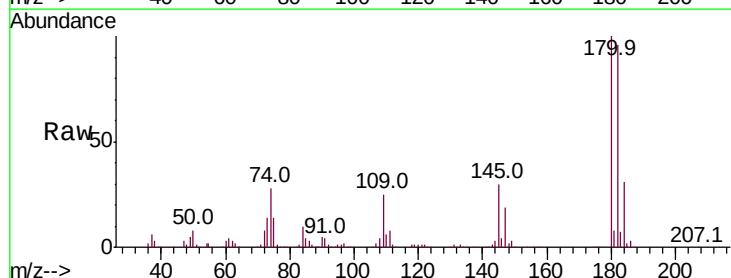
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 227.592 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033632.D
 Acq: 08 Aug 2019 12:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.8	78.5	117.7
145	29.6	23.6	35.4

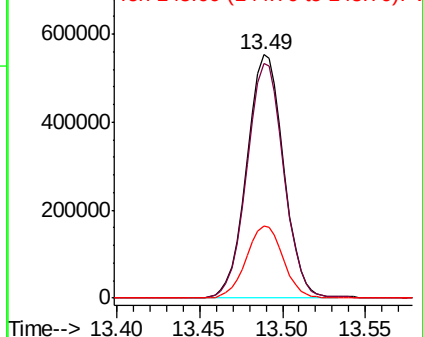
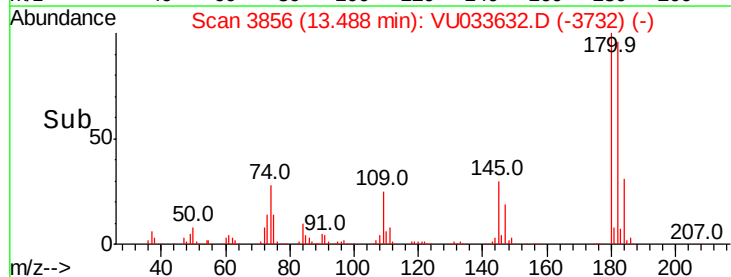


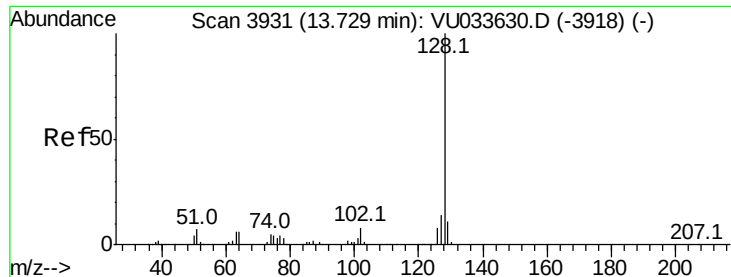
Abundance

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: 246.311 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

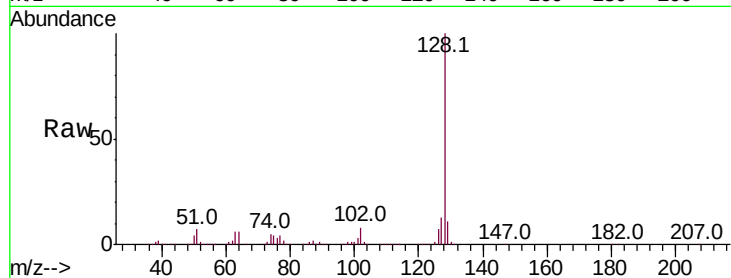
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 2692257

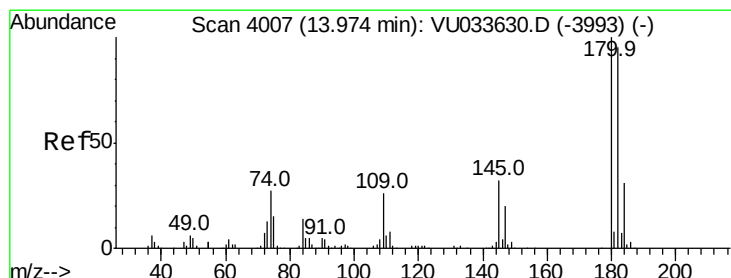
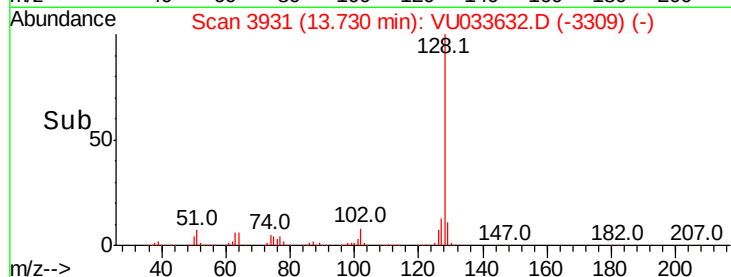
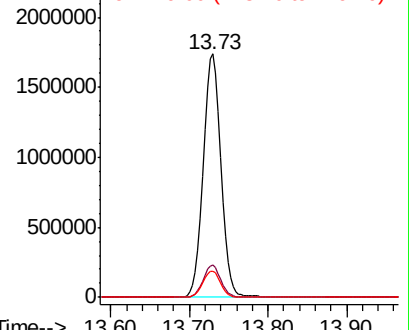
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	10.9	8.8	13.2



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: 214.940 ug/L

RT: 13.97 min Scan# 4007

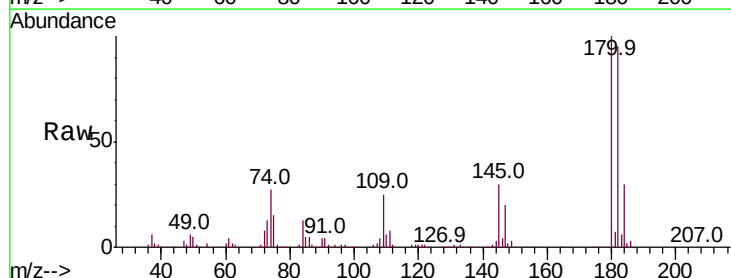
Delta R.T. 0.00 min

Lab File: VU033632.D

Acq: 08 Aug 2019 12:49

Tgt Ion:180 Resp: 860054

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.6	115.0
145	30.6	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

