

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101819\
 Data File : VU035277.D
 Acq On : 18 Oct 2019 19:34
 Operator : JC/SP
 Sample : K5419-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 19 03:42:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Oct 19 03:38:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	320513	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	305746	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	122713	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	93516	4.78	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.60%
7) Chloroethane-d5	1.93	69	96131	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.60%
11) 1,1-Dichloroethene-d2	2.60	63	130018	3.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.00%
20) 2-Butanone-d5	4.71	46	275079	48.98	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.96%
24) Chloroform-d	5.11	84	177410	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.75	65	100795	5.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.80%
32) Benzene-d6	5.77	84	361604	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.40%
36) 1,2-Dichloropropane-d6	6.74	67	116045	5.23	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.60%
41) Toluene-d8	7.93	98	329947	4.93	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.60%
43) trans-1,3-Dichloropropene-	8.22	79	47448	4.40	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.00%
46) 2-Hexanone-d5	8.69	63	231914	48.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.62%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	101463	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	114346	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.66	85	4173	0.153 ug/L	90
5) Vinyl chloride	1.62	62	65480	2.356 ug/L	96
8) Chloroethane	1.95	64	4550	0.254 ug/L	97
12) 1,1-Dichloroethene	2.61	96	1642	0.080 ug/L #	1
13) Acetone	2.67	43	19063	4.880 ug/L	94
15) Methyl Acetate	3.00	43	4127	0.424 ug/L #	53
18) trans-1,2-Dichloroethene	3.39	96	7187	0.323 ug/L	93
19) 1,1-Dichloroethane	3.92	63	26919	0.670 ug/L	98
22) cis-1,2-Dichloroethene	4.72	96	58433	2.379 ug/L	96
25) Chloroform	5.14	83	8393	0.190 ug/L	100
29) 1,1,1-Trichloroethane	5.37	97	3799	0.106 ug/L	97
30) Cyclohexane	5.43	56	7785	0.203 ug/L #	90
33) Benzene	5.82	78	45992	0.511 ug/L	100
34) Trichloroethene	6.58	95	4681	0.194 ug/L #	79
35) Methylcyclohexane	6.80	83	7083	0.175 ug/L #	84
37) 1,2-Dichloropropane	6.74	63	12793	0.560 ug/L #	94
39) cis-1,3-Dichloropropene	7.60	75	3474	0.091 ug/L #	45

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Oct 19 03:38:09 2019
Response via : Initial Calibration

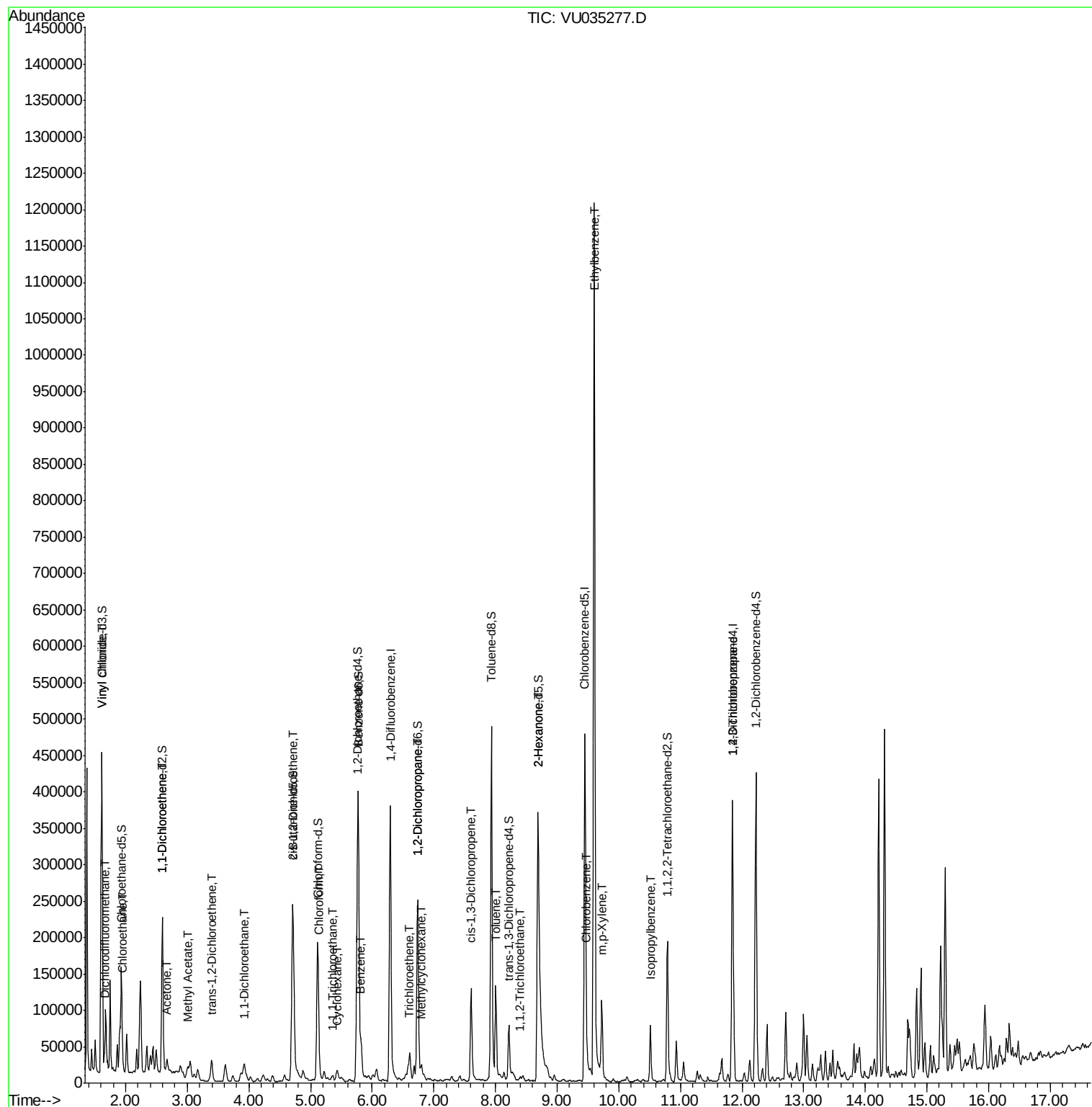
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.01	91	91619	0.923	ug/L	96
45) 1,1,2-Trichloroethane	8.39	97	1997	0.118	ug/L #	23
48) 2-Hexanone	8.69	43	20269	1.875	ug/L #	58
51) Chlorobenzene	9.48	112	10593	0.165	ug/L	98
52) Ethylbenzene	9.60	91	927374	8.212	ug/L	99
53) m,p-Xylene	9.73	106	30882	0.724	ug/L	91
56) Isopropylbenzene	10.51	105	52123	0.466	ug/L	99
59) 1,2,3-Trichloropropane	11.84	75	15268	0.960	ug/L	91

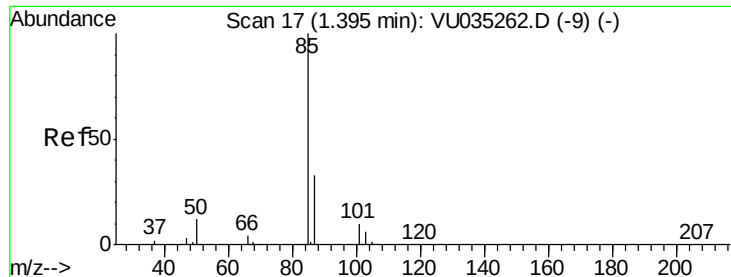
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.153 ug/L

RT: 1.66 min Scan# 99

Delta R.T. 0.26 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Instrument :

MSVOA_U

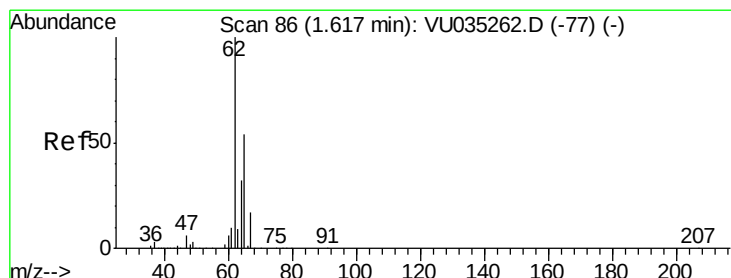
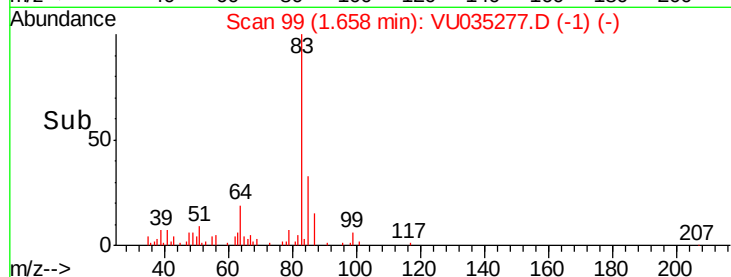
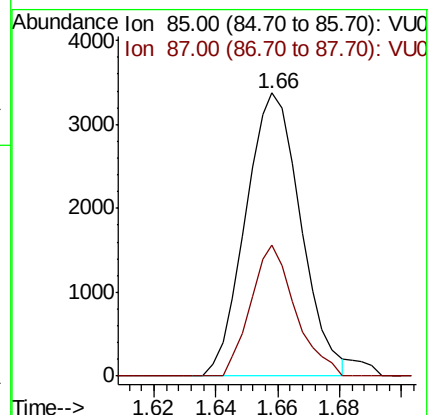
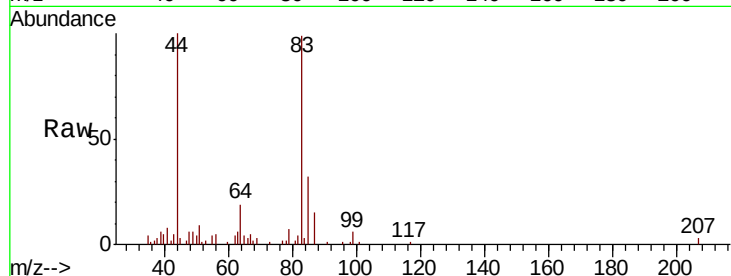
ClientSampleId :

Tot Ion: 85 Resp: 4173

Ion Ratio Lower Upper

85 100

87 37.6 25.5 38.3



#5

Vinyl chloride

Concen: 2.356 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VU035277.D

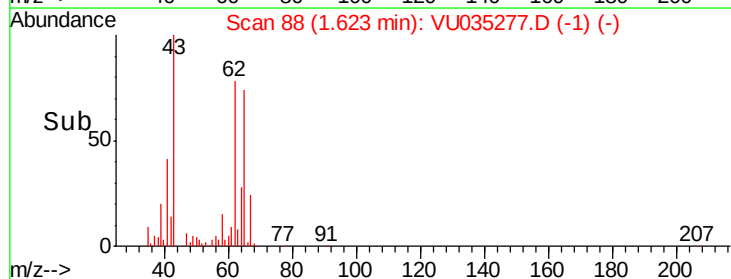
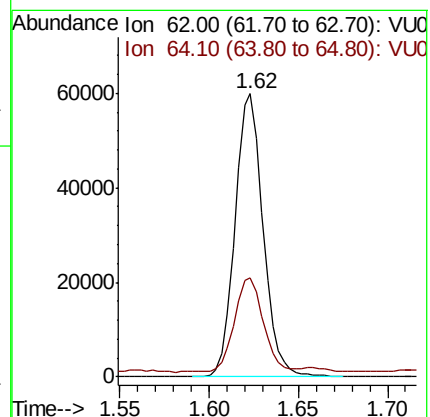
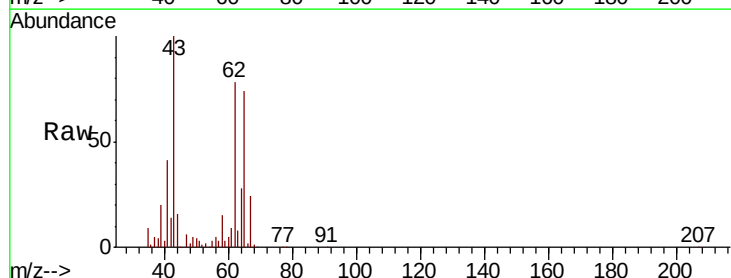
Acq: 18 Oct 2019 19:34

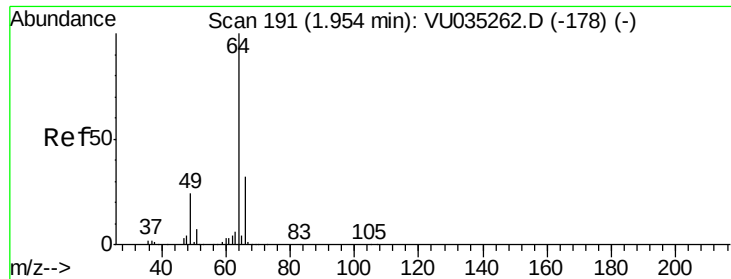
Tgt Ion: 62 Resp: 65480

Ion Ratio Lower Upper

62 100

64 35.2 22.9 42.5

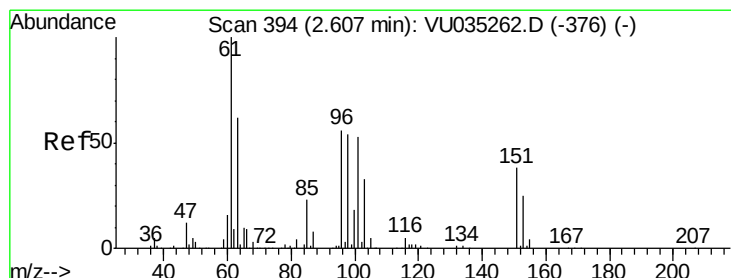
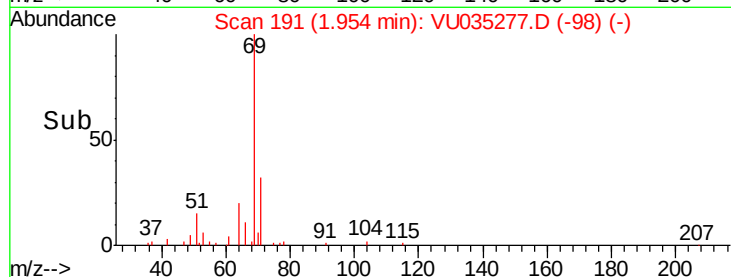
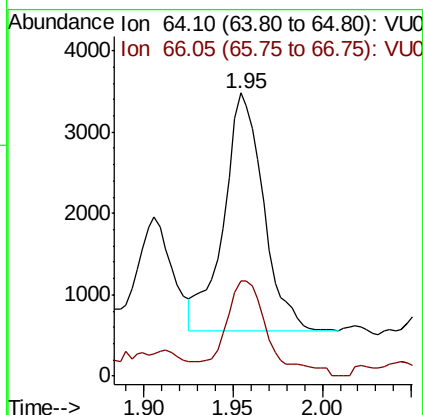
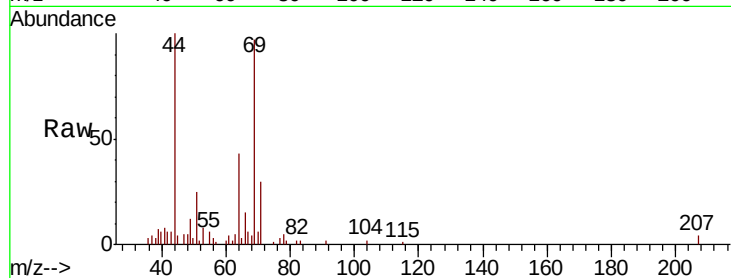




#8
Chloroethane
Concen: 0.254 ug/L
RT: 1.95 min Scan# 191
Delta R.T. -0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

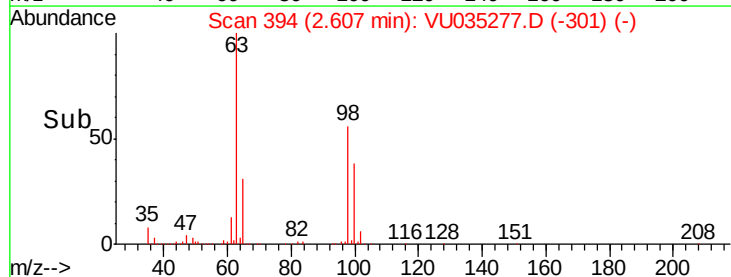
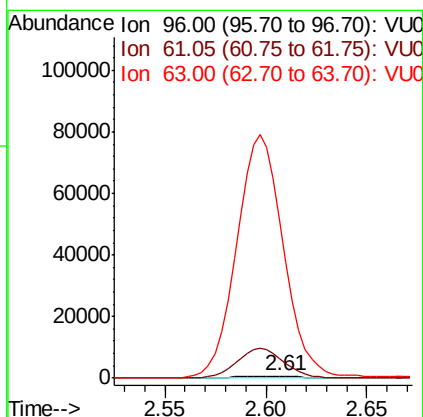
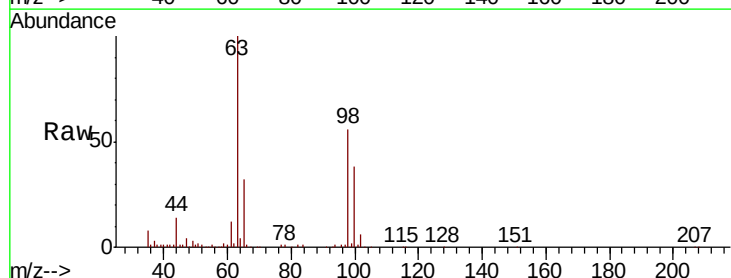
Instrument :
MSVOA_U
ClientSampleId :

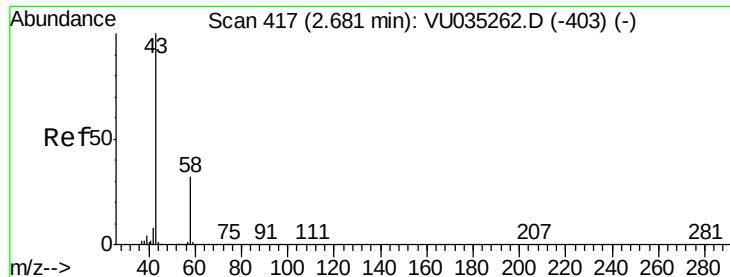
Tot Ion: 64 Resp: 4550
Ion Ratio Lower Upper
64 100
66 33.8 22.7 42.1



#12
1,1-Dichloroethene
Concen: 0.080 ug/L
RT: 2.61 min Scan# 394
Delta R.T. -0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Tgt Ion: 96 Resp: 1642
Ion Ratio Lower Upper
96 100
61 890.7 120.6 224.0#
63 7128.2 86.8 161.2#





#13

Acetone

Concen: 4.880 ug/L

RT: 2.67 min Scan# 415

Delta R.T. -0.01 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

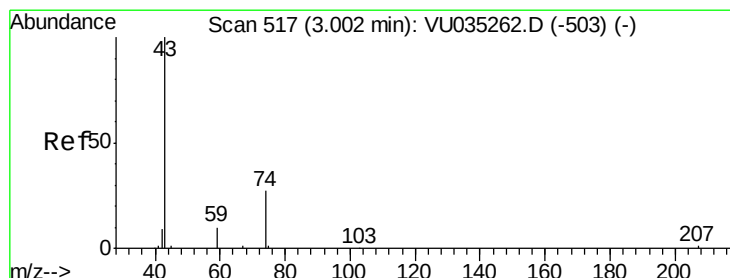
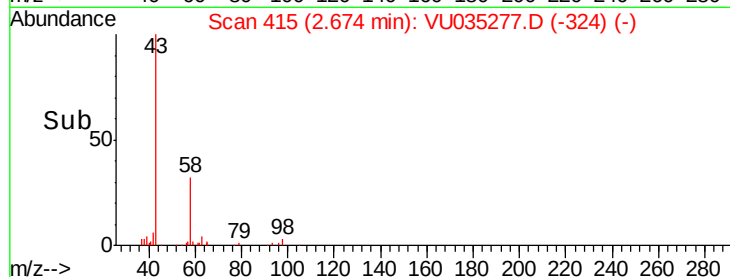
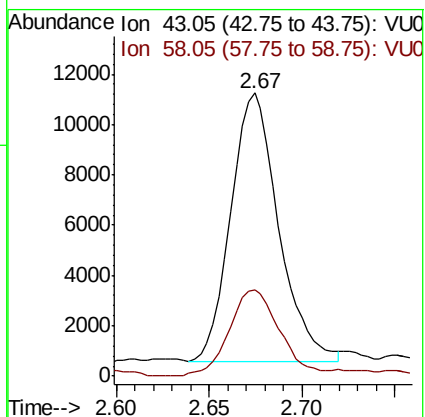
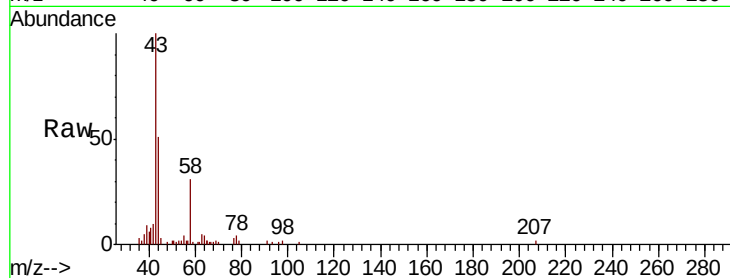
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 19063

Ion Ratio Lower Upper

43 100

58 34.0 0.0 61.8



#15

Methyl Acetate

Concen: 0.424 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.01 min

Lab File: VU035277.D

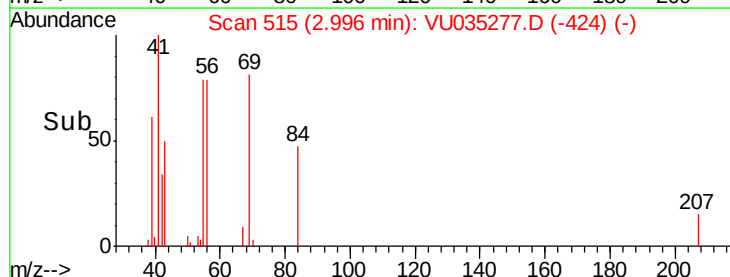
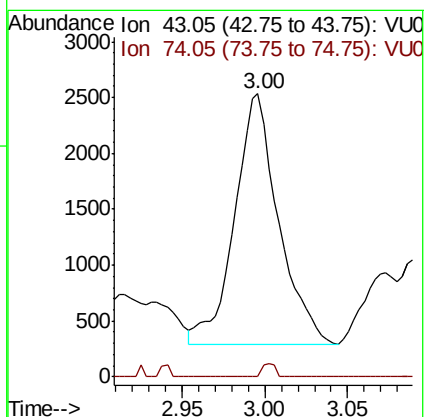
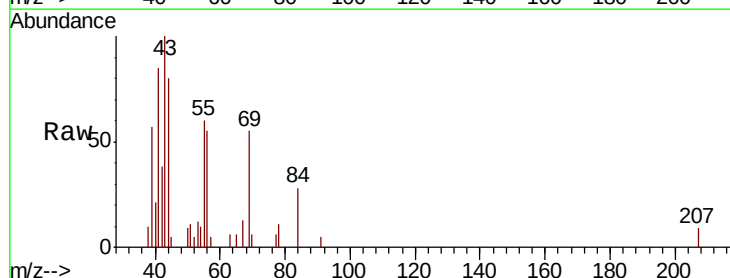
Acq: 18 Oct 2019 19:34

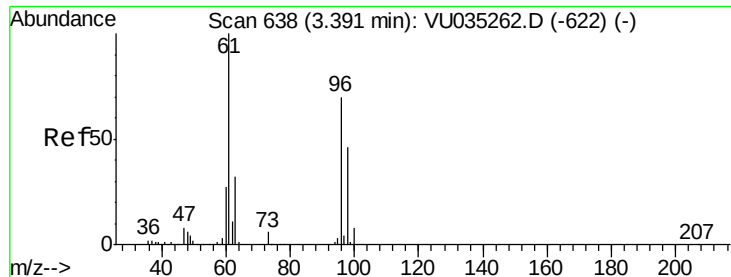
Tgt Ion: 43 Resp: 4127

Ion Ratio Lower Upper

43 100

74 1.5 20.3 30.5#





#18

trans-1,2-Dichloroethene

Concen: 0.323 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

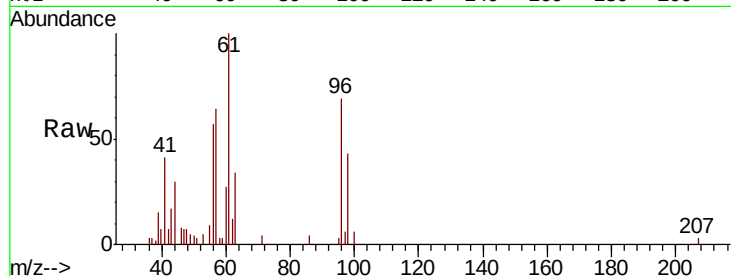
Tot Ion: 96 Resp: 7187

Ion Ratio Lower Upper

96 100

61 145.7 93.0 172.6

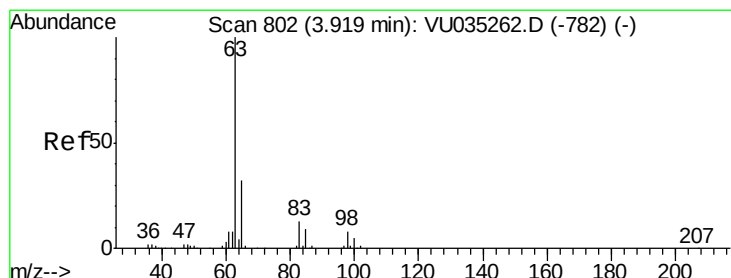
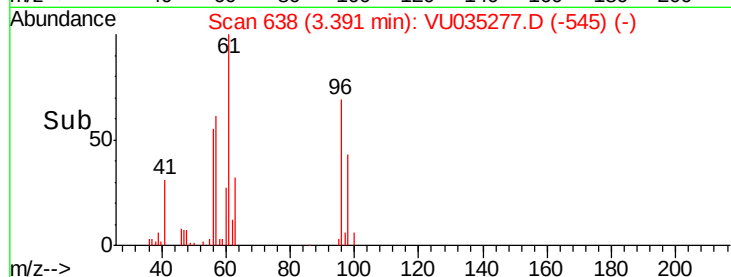
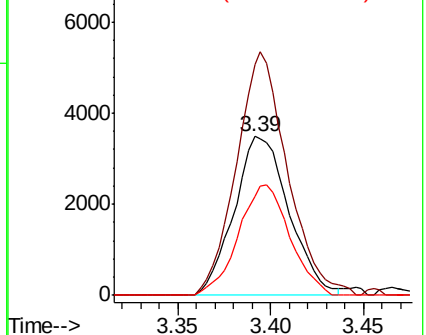
98 62.6 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035277.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035277.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035277.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 0.670 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

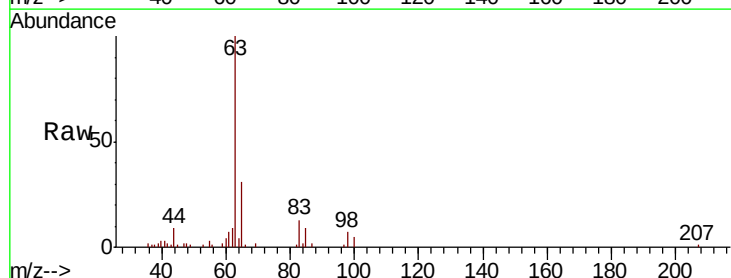
Tgt Ion: 63 Resp: 26919

Ion Ratio Lower Upper

63 100

65 30.7 22.4 41.6

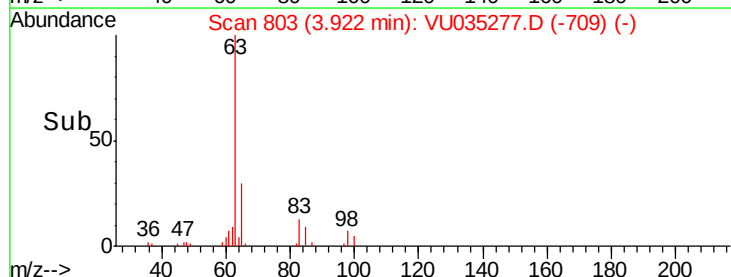
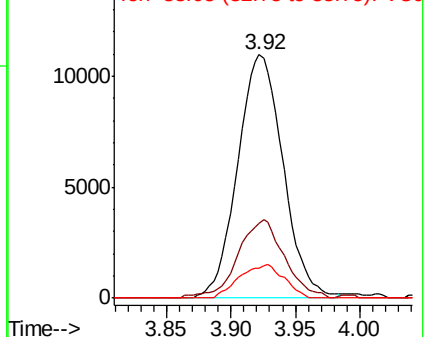
83 12.5 9.3 17.3

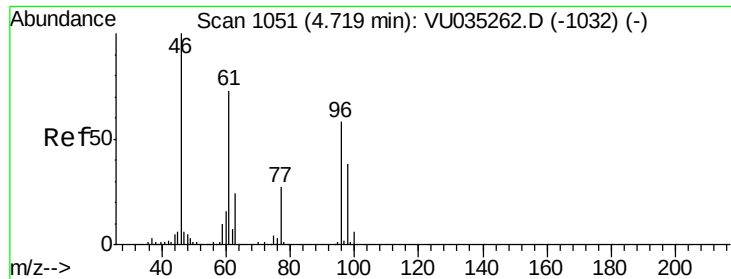


Abundance Ion 63.10 (62.80 to 63.80): VU035277.D (-709) (-)

Ion 65.10 (64.80 to 65.80): VU035277.D (-709) (-)

Ion 83.05 (82.75 to 83.75): VU035277.D (-709) (-)

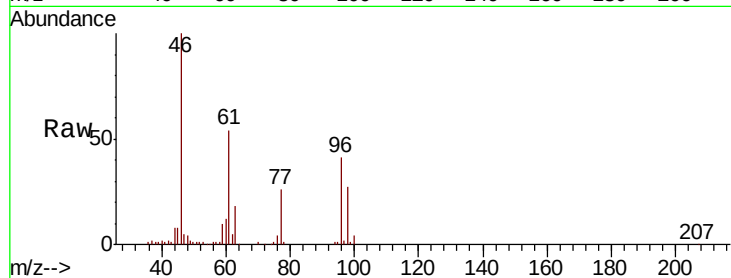




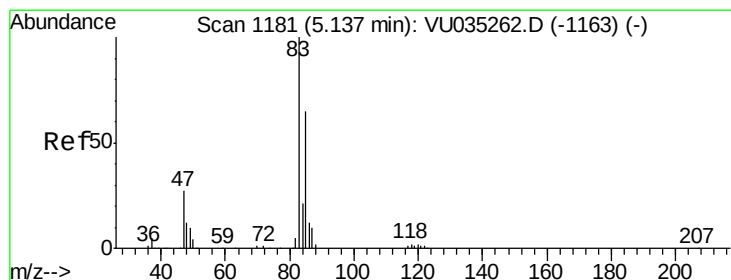
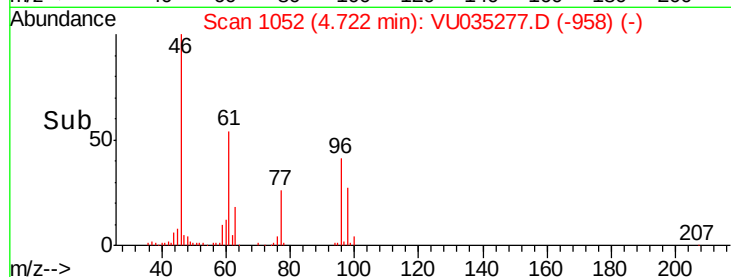
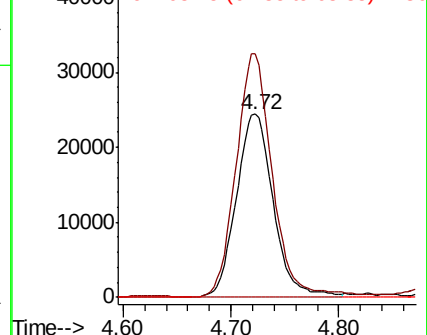
#22
 cis-1,2-Dichloroethene
 Concen: 2.379 ug/L
 RT: 4.72 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VU035277.D
 Acq: 18 Oct 2019 19:34

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 96 Resp: 58433
 Ion Ratio Lower Upper
 96 100
 61 133.0 89.7 166.5
 68 0.0 0.0 0.0

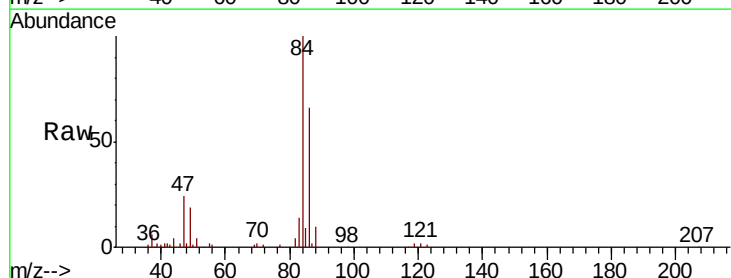


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

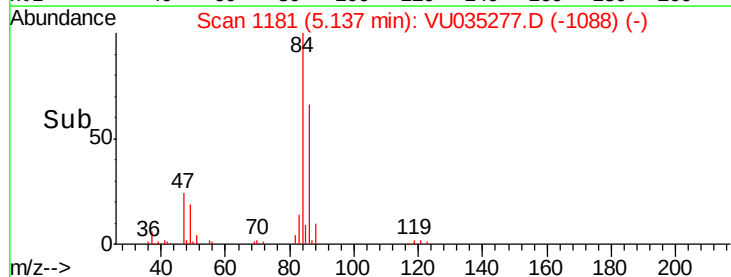
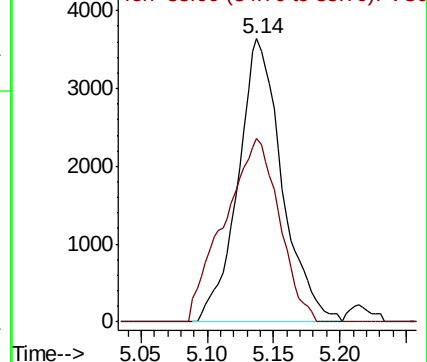


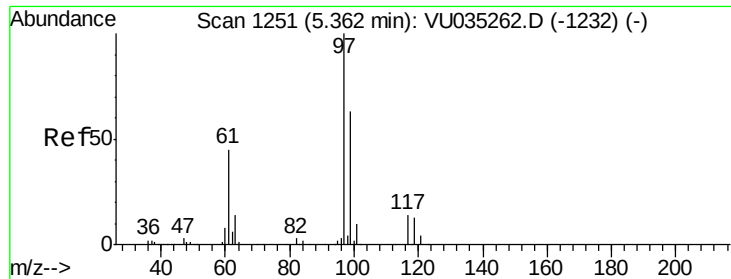
#25
 Chloroform
 Concen: 0.190 ug/L
 RT: 5.14 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VU035277.D
 Acq: 18 Oct 2019 19:34

Tgt Ion: 83 Resp: 8393
 Ion Ratio Lower Upper
 83 100
 85 64.7 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0

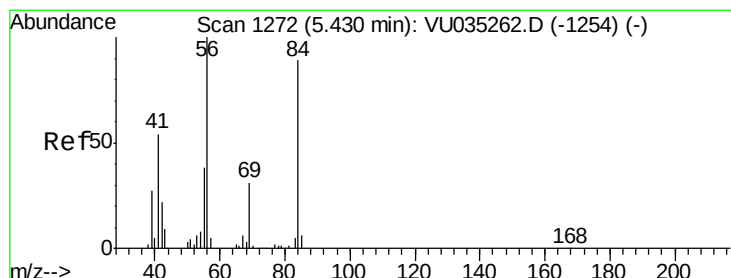
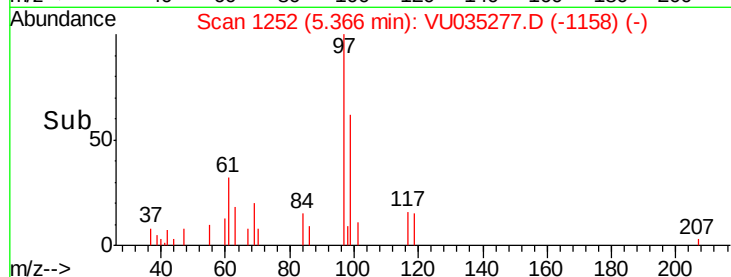
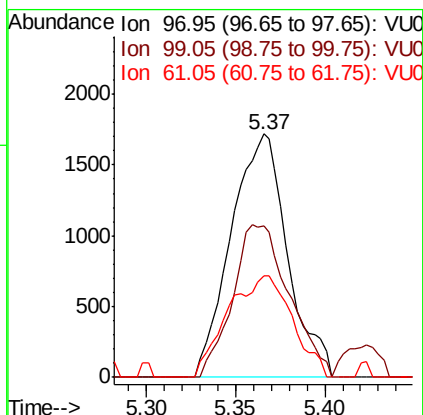
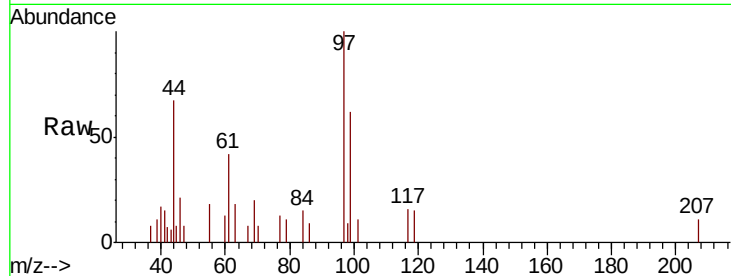




#29
 1,1,1-Trichloroethane
 Concen: 0.106 ug/L
 RT: 5.37 min Scan# 1252
 Delta R.T. 0.00 min
 Lab File: VU035277.D
 Acq: 18 Oct 2019 19:34

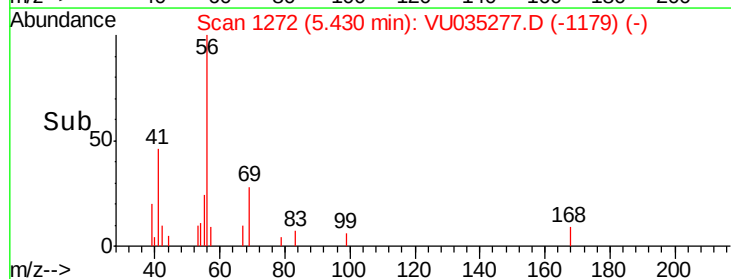
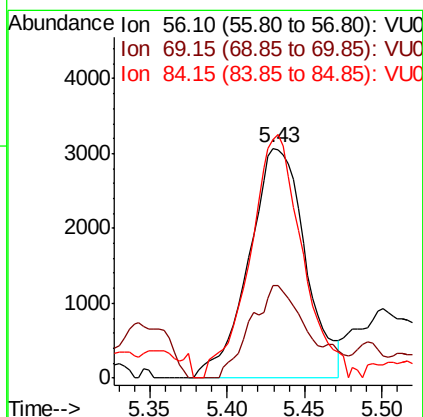
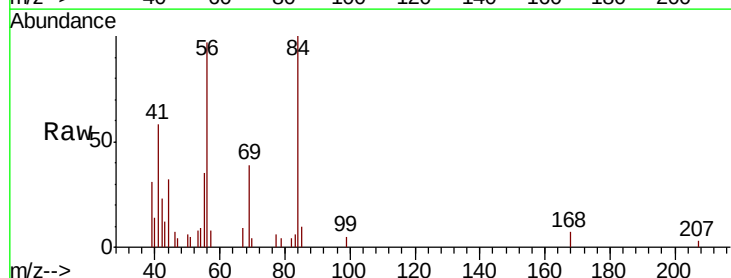
Instrument :
 MSVOA_U
 ClientSampleId :

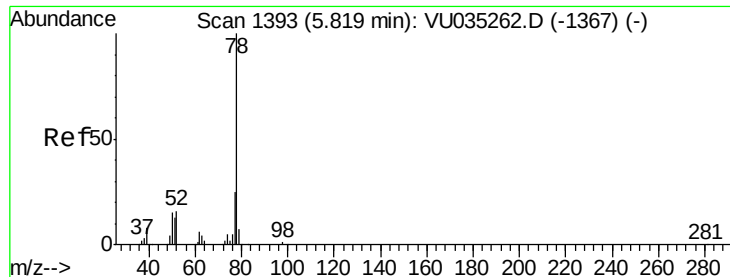
Tot Ion: 97 Resp: 3799
 Ion Ratio Lower Upper
 97 100
 99 62.8 52.6 79.0
 61 47.7 37.0 55.4



#30
 Cyclohexane
 Concen: 0.203 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035277.D
 Acq: 18 Oct 2019 19:34

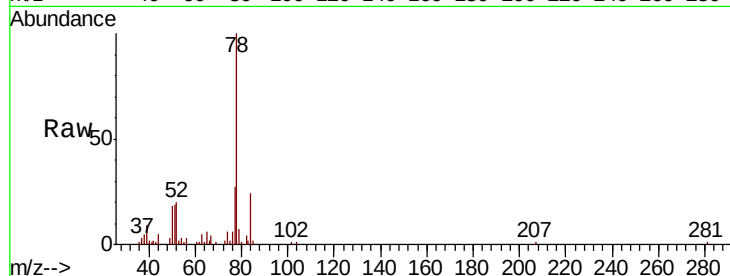
Tgt Ion: 56 Resp: 7785
 Ion Ratio Lower Upper
 56 100
 69 37.4 24.6 36.8#
 84 98.3 71.5 107.3



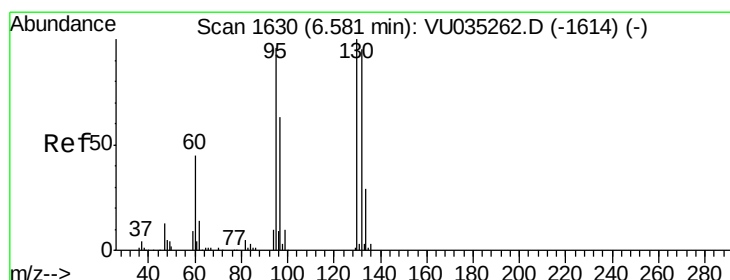
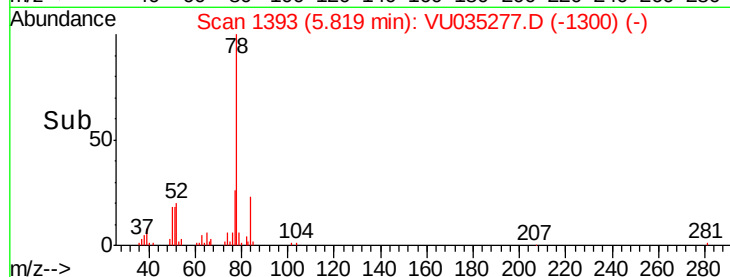
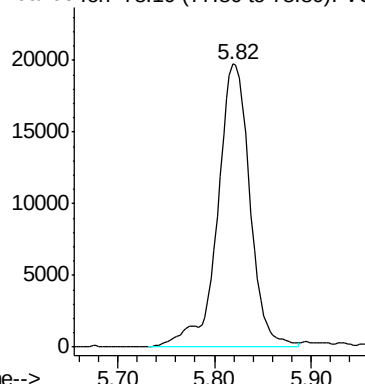


#33
Benzene
Concen: 0.511 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. -0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34
Tgt Ion: 78 Resp: 45992

Instrument :
MSVOA_U
ClientSampleId :

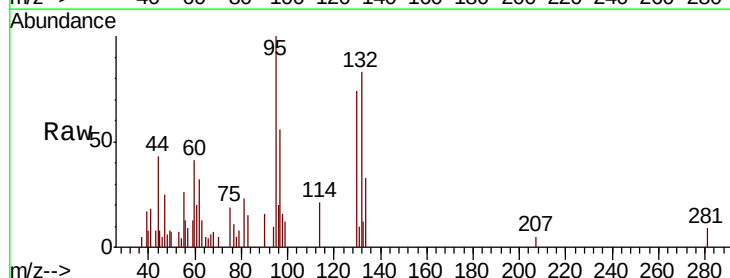


Abundance Ion 78.10 (77.80 to 78.80): VU0

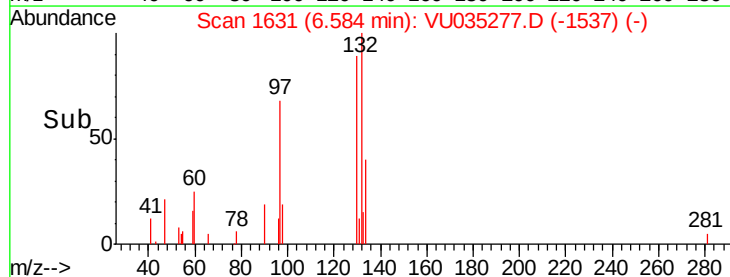
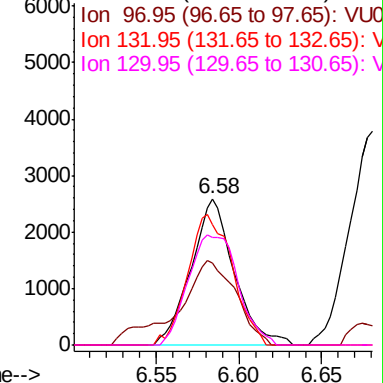


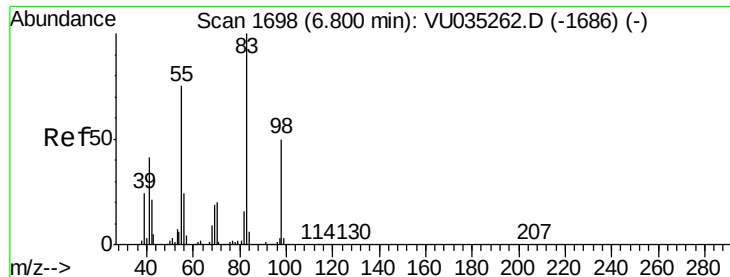
#34
Trichloroethene
Concen: 0.194 ug/L
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Tgt Ion: 95 Resp: 4681
Ion Ratio Lower Upper
95 100
97 55.8 46.6 86.6
132 82.5 68.7 127.7
130 73.5 73.9 137.3#



Abundance Ion 95.00 (94.70 to 95.70): VU0

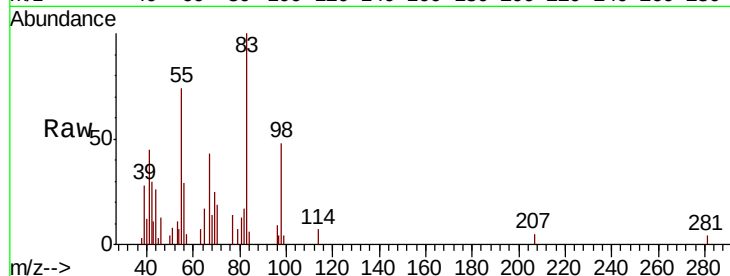




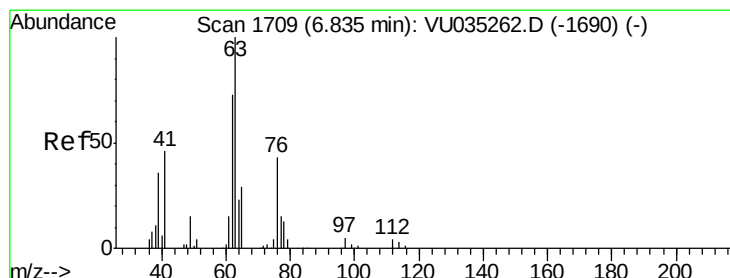
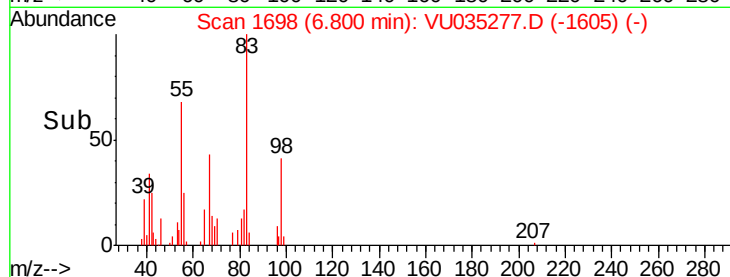
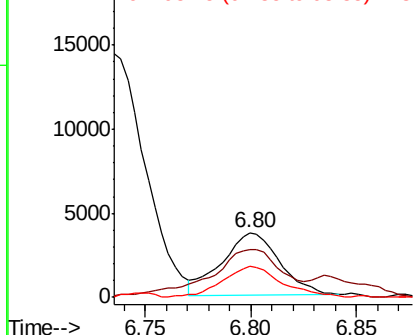
#35
Methylvlcyclohexane
Concen: 0.175 ug/L
RT: 6.80 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 7083
Ion Ratio Lower Upper
83 100
55 97.4 60.4 90.6#
98 51.1 39.5 59.3

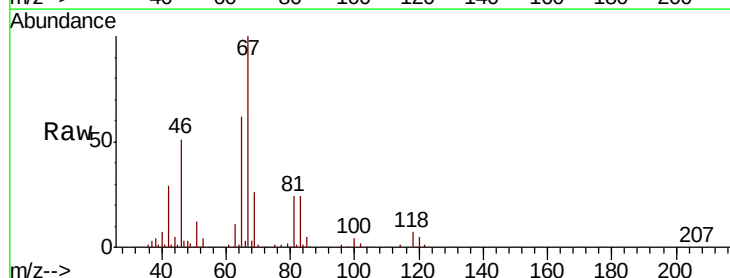


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

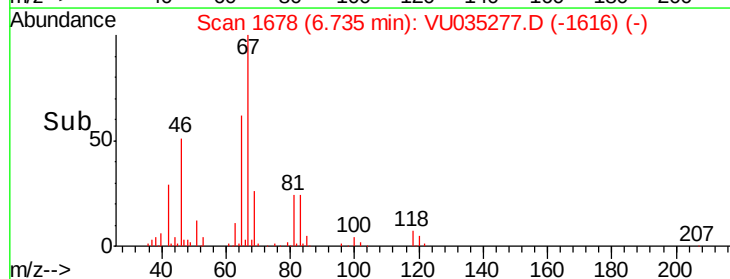
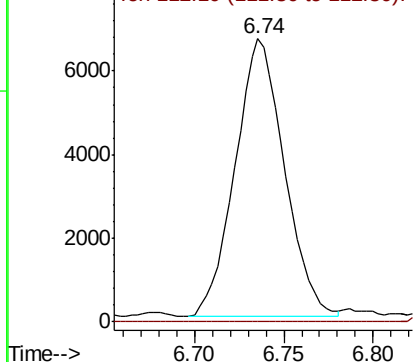


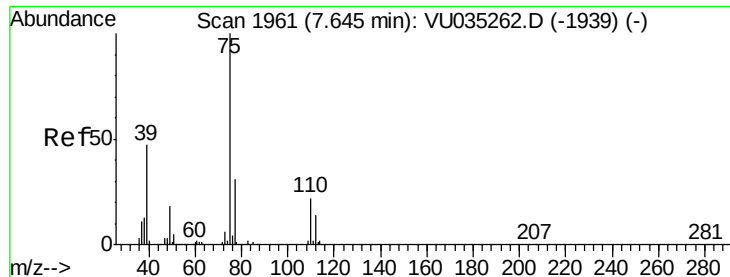
#37
1,2-Dichloropropane
Concen: 0.560 ug/L
RT: 6.74 min Scan# 1678
Delta R.T. -0.10 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Tgt Ion: 63 Resp: 12793
Ion Ratio Lower Upper
63 100
112 6.6 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V



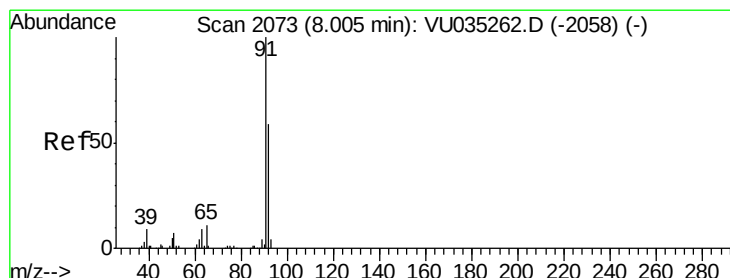
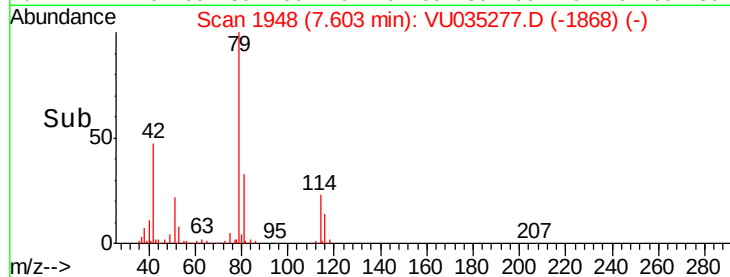
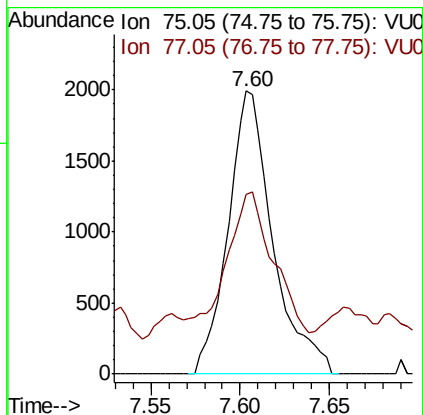
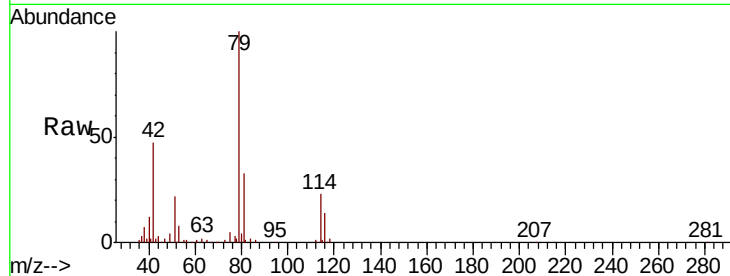


#39

cis-1,3-Dichloropropene
Concen: 0.091 ug/L
RT: 7.60 min Scan# 1948
Delta R.T. -0.04 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :

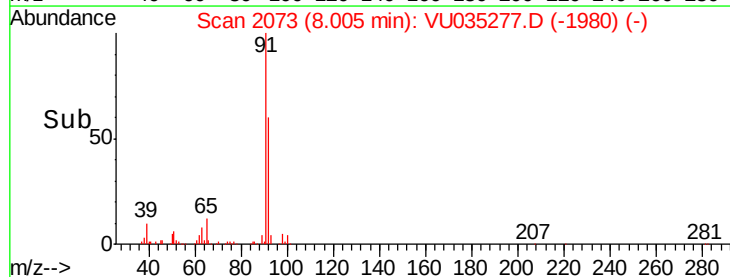
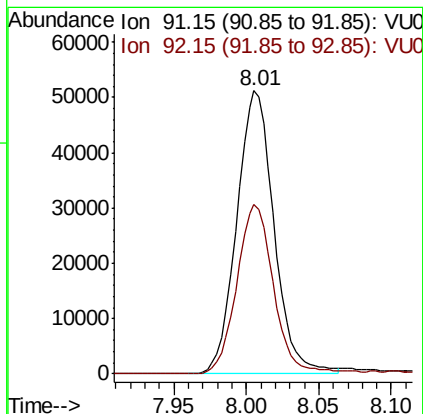
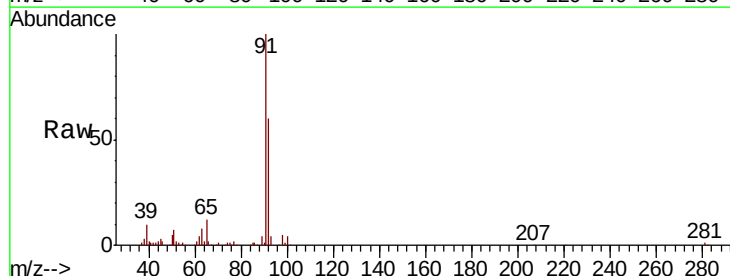
Tot Ion: 75 Resp: 3474
Ion Ratio Lower Upper
75 100
77 63.5 22.7 42.1#

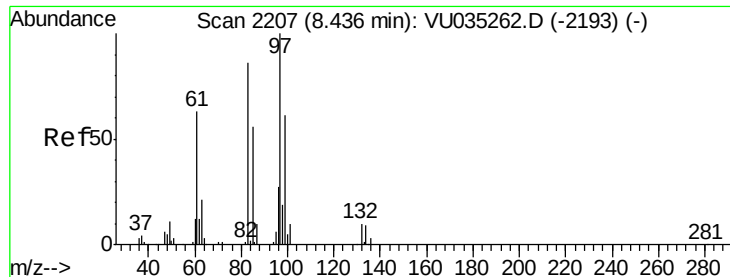


#42

Toluene
Concen: 0.923 ug/L
RT: 8.01 min Scan# 2073
Delta R.T. -0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Tgt Ion: 91 Resp: 91619
Ion Ratio Lower Upper
91 100
92 59.7 39.9 74.1





#45

1,1,2-Trichloroethane

Concen: 0.118 ug/L

RT: 8.39 min Scan# 2194

Delta R.T. -0.04 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 1997

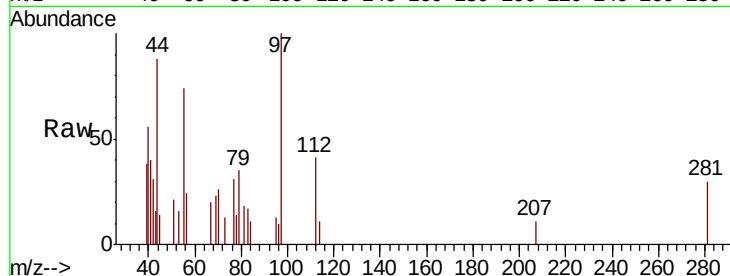
Ion Ratio Lower Upper

97 100

99 0.0 42.9 79.7#

83 17.3 60.4 112.2#

85 0.0 38.4 71.2#

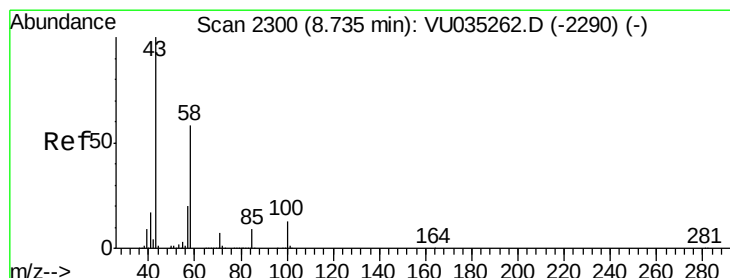
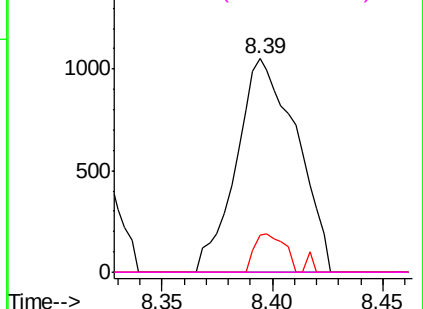
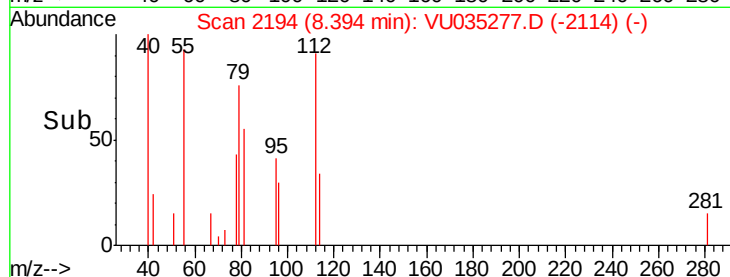


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#48

2-Hexanone

Concen: 1.875 ug/L

RT: 8.69 min Scan# 2286

Delta R.T. -0.05 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Tgt Ion: 43 Resp: 20269

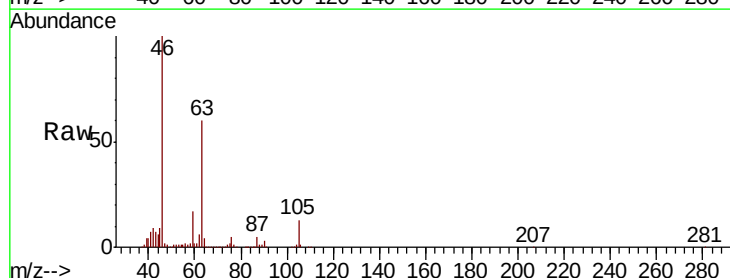
Ion Ratio Lower Upper

43 100

58 18.6 45.1 67.7#

57 28.7 16.0 24.0#

100 0.0 10.4 15.6#

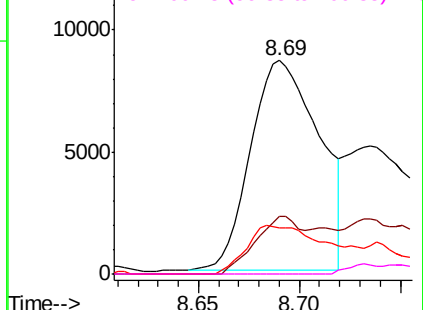
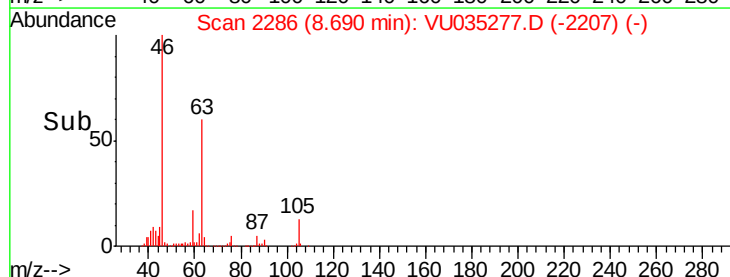


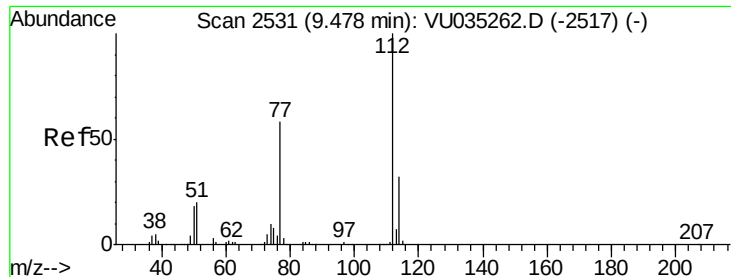
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0

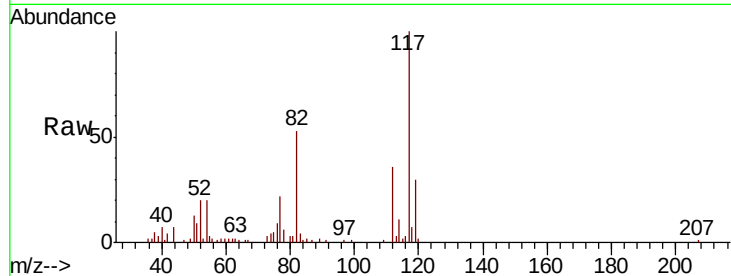




#51
Chlorobenzene
Concen: 0.165 ug/L
RT: 9.48 min Scan# 2532
Delta R.T. 0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	23.0	42.8
77	60.7	47.5	71.3

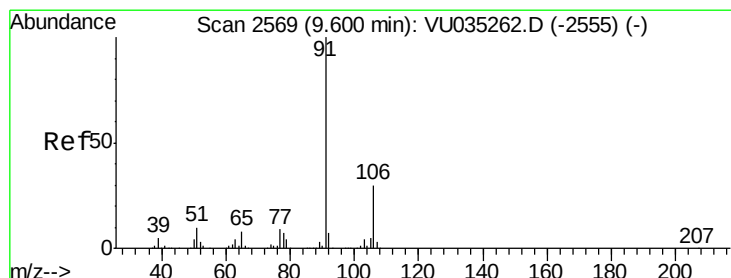
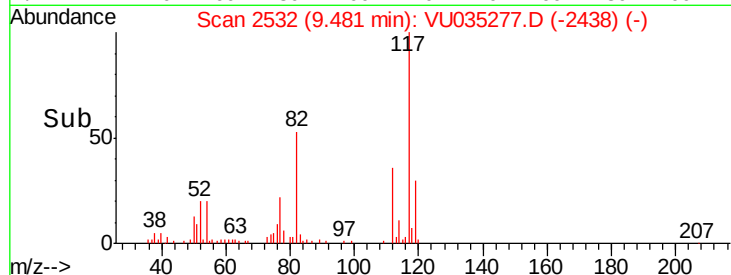
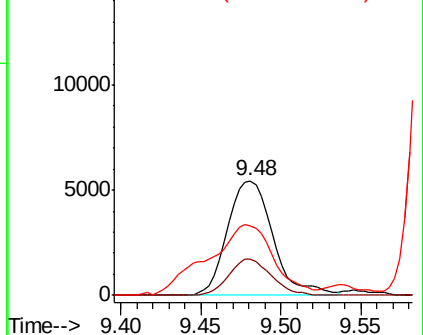


Abundance

Ion 112.10 (111.80 to 112.80): V

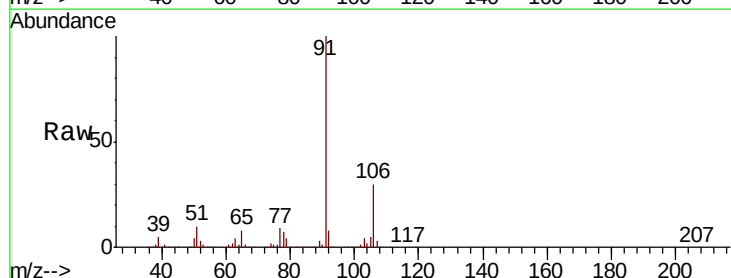
Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52
Ethylbenzene
Concen: 8.212 ug/L
RT: 9.60 min Scan# 2570
Delta R.T. 0.00 min
Lab File: VU035277.D
Acq: 18 Oct 2019 19:34

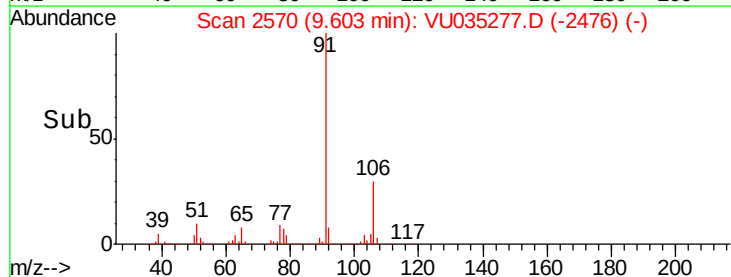
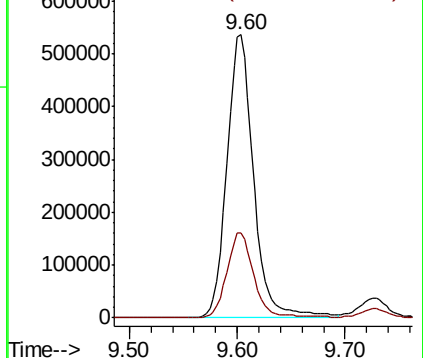
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.0	21.3	39.6

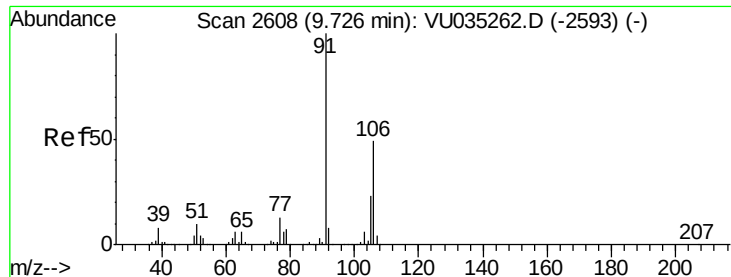


Abundance

Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.724 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Instrument :

MSVOA_U

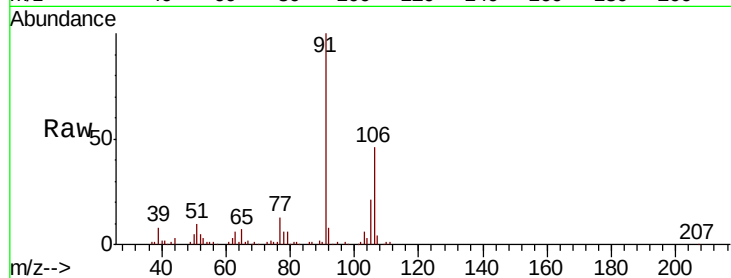
ClientSampleId :

Tot Ion:106 Resp: 30882

Ion Ratio Lower Upper

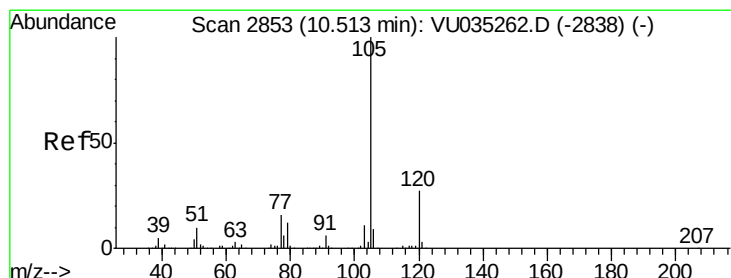
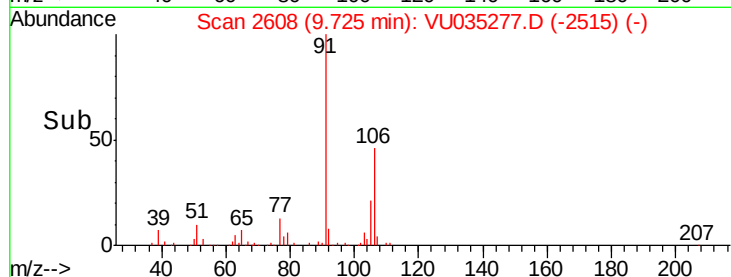
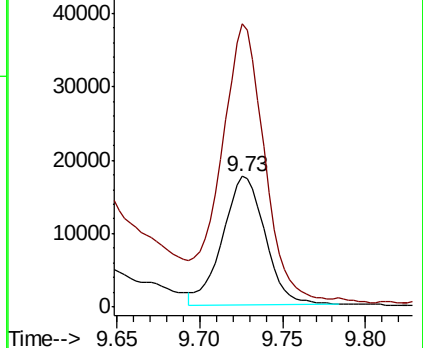
106 100

91 216.9 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.466 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

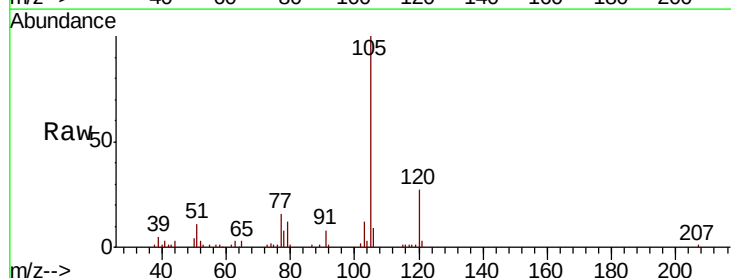
Tgt Ion:105 Resp: 52123

Ion Ratio Lower Upper

105 100

120 25.9 21.0 31.6

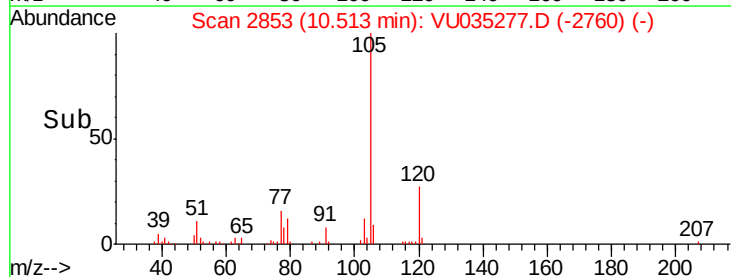
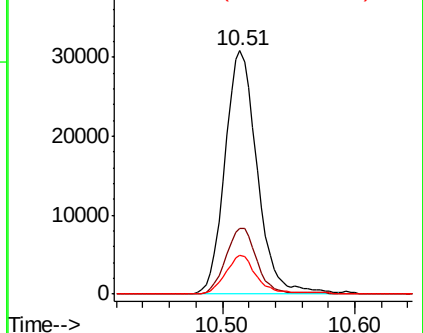
77 15.4 12.6 19.0

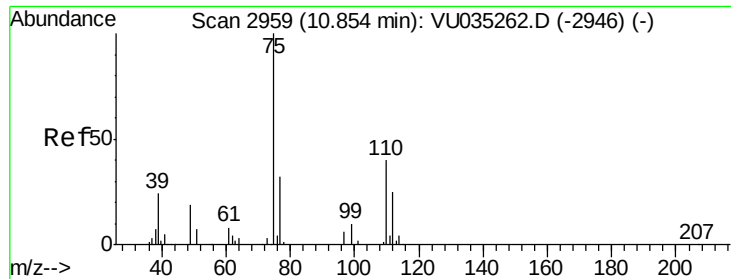


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#59

1,2,3-Trichloropropane

Concen: 0.960 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035277.D

Acq: 18 Oct 2019 19:34

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 15268

Ion Ratio Lower Upper

75 100

77 37.9 26.2 39.2

