

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101719\
 Data File : VU035250.D
 Acq On : 18 Oct 2019 07:37
 Operator : JC/SP
 Sample : K5419-19
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FZ8

Quant Time: Oct 18 13:53:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 13:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	360936	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	342728	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	156813	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	112655	5.12	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.40%
7) Chloroethane-d5	1.93	69	104947	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.59	63	156212	3.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.80%
20) 2-Butanone-d5	4.71	46	294829	46.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.24%
24) Chloroform-d	5.11	84	201499	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	5.75	65	114211	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.77	84	423739	5.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.20%
36) 1,2-Dichloropropane-d6	6.74	67	134989	5.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	108.40%
41) Toluene-d8	7.93	98	396688	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	8.22	79	56147	4.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.00%
46) 2-Hexanone-d5	8.69	63	254397	47.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.52%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	109929	4.96	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.20%
64) 1,2-Dichlorobenzene-d4	12.22	152	145244	5.09	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	25152	0.804	ug/L	92
8) Chloroethane	1.95	64	6642	0.329	ug/L	99
12) 1,1-Dichloroethene	2.59	96	1583	0.068	ug/L #	1
13) Acetone	2.68	43	5219	1.186	ug/L	71
18) trans-1,2-Dichloroethene	3.39	96	9998	0.400	ug/L	97
19) 1,1-Dichloroethane	3.92	63	104343	2.306	ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	11475	0.415	ug/L	95
30) Cyclohexane	5.43	56	7153	0.166	ug/L	90
33) Benzene	5.82	78	57008	0.565	ug/L	100
34) Trichloroethene	6.58	95	4710	0.174	ug/L	87
35) Methylcyclohexane	6.74	83	31906	0.704	ug/L #	19
39) cis-1,3-Dichloropropene	7.60	75	4071	0.095	ug/L #	52
42) Toluene	8.01	91	21651	0.194	ug/L	99
52) Ethylbenzene	9.60	91	20330	0.161	ug/L	96
53) m,p-Xylene	9.73	106	6704	0.140	ug/L	92
54) o-Xylene	10.13	106	6066	0.130	ug/L	92
59) 1,2,3-Trichloropropane	11.84	75	18747	1.051	ug/L	92

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QLast Update : Fri Oct 18 13:51:17 2019
Response via : Initial Calibration

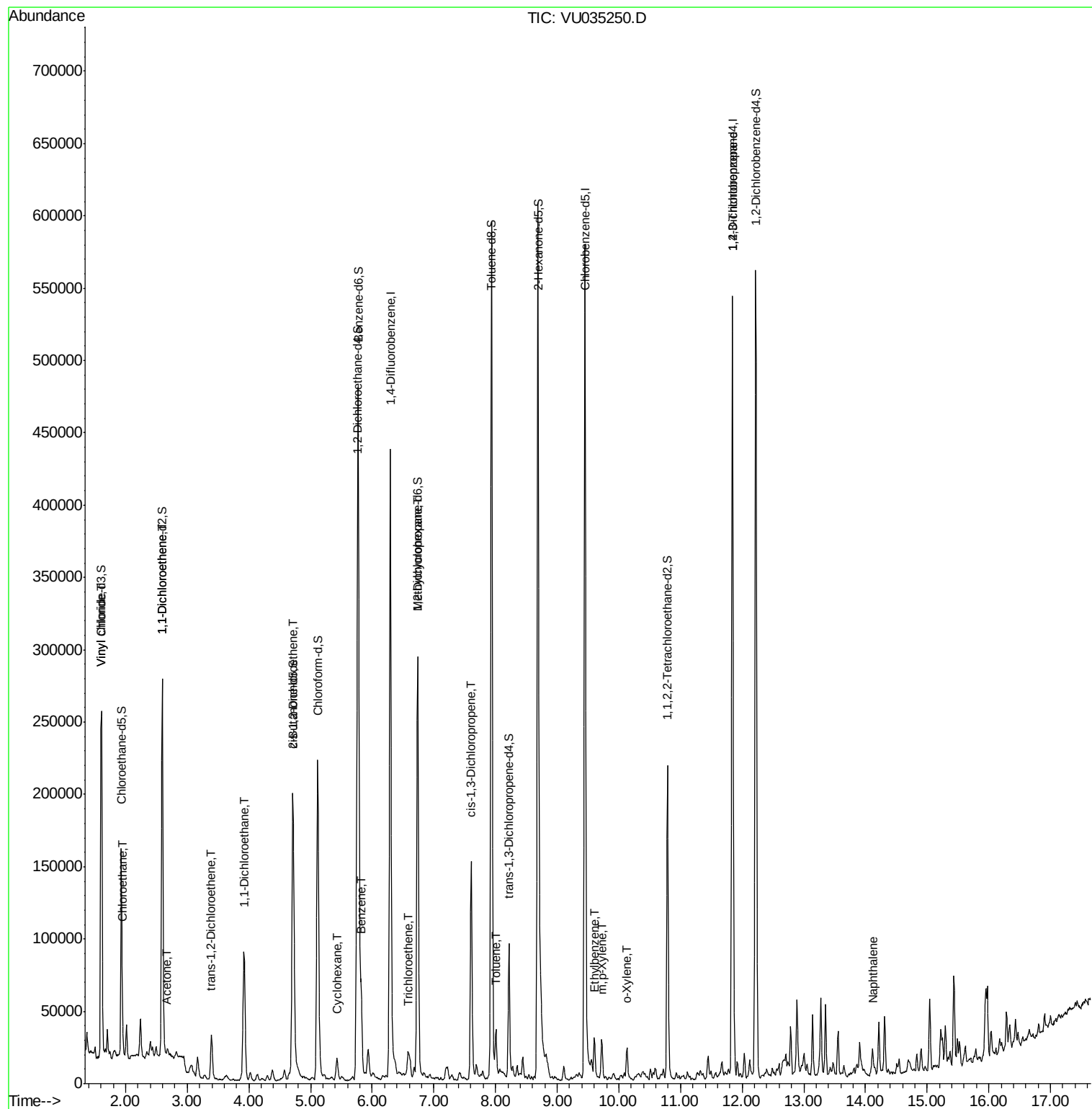
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
69) Naphthalene	14.11	128	14198	0.469	ug/L #	92
-----	-----	-----	-----	-----	-----	-----

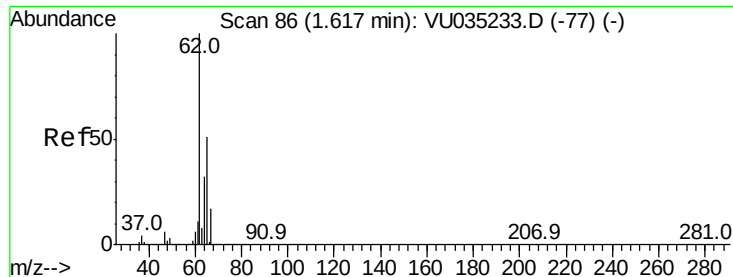
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 18 13:51:17 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.804 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

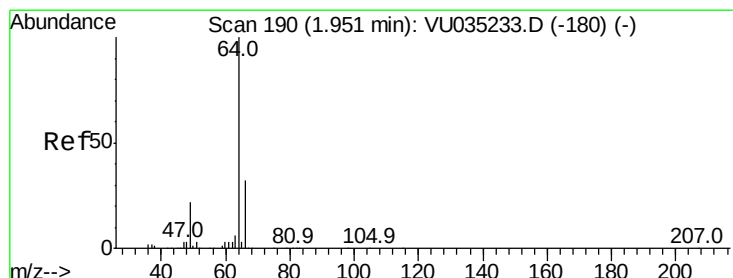
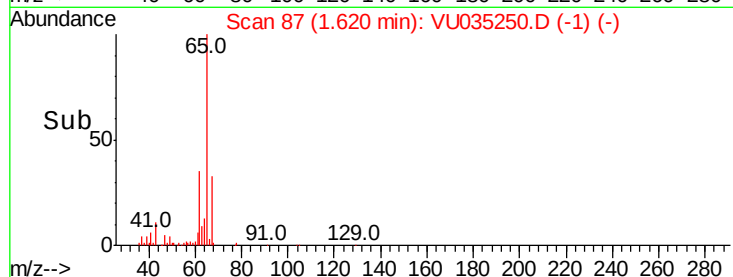
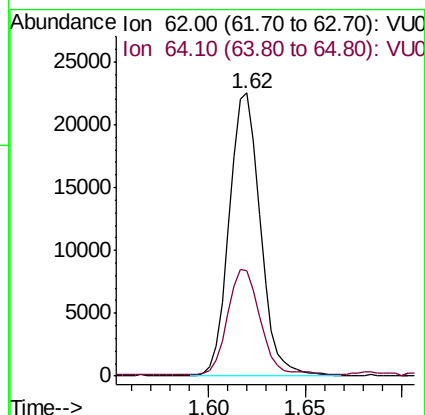
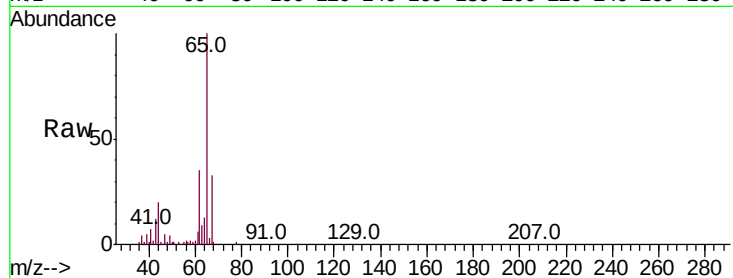
H0FZ8

Tot Ion: 62 Resp: 25152

Ion Ratio Lower Upper

62 100

64 37.1 22.9 42.5



#8

Chloroethane

Concen: 0.329 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035250.D

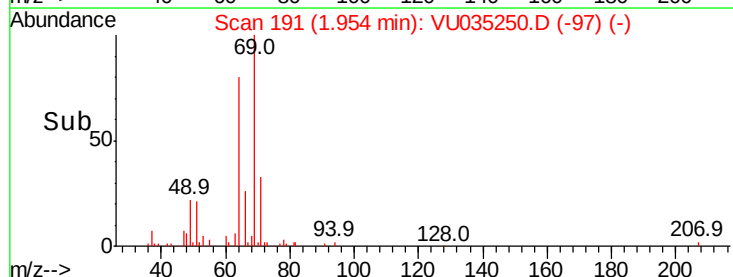
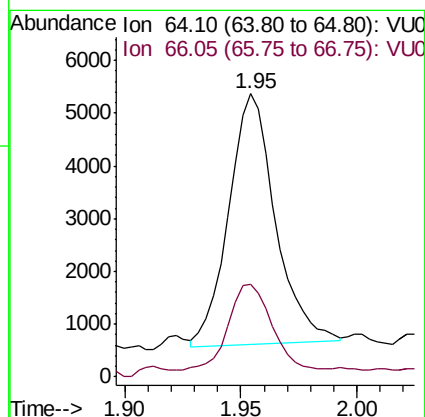
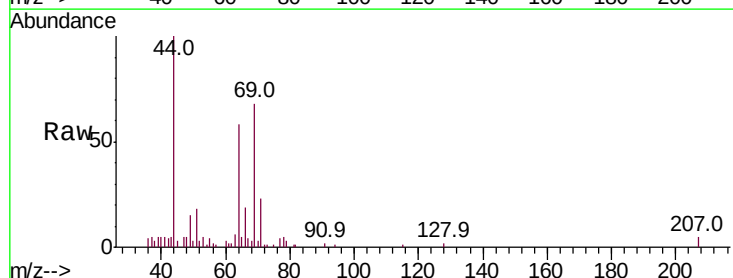
Acq: 18 Oct 2019 07:37

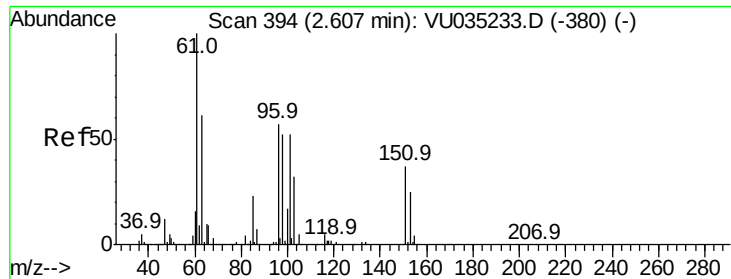
Tgt Ion: 64 Resp: 6642

Ion Ratio Lower Upper

64 100

66 32.8 22.7 42.1





#12

1,1-Dichloroethene

Concen: 0.068 ug/L

RT: 2.59 min Scan# 390

Delta R.T. -0.01 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

H0FZ8

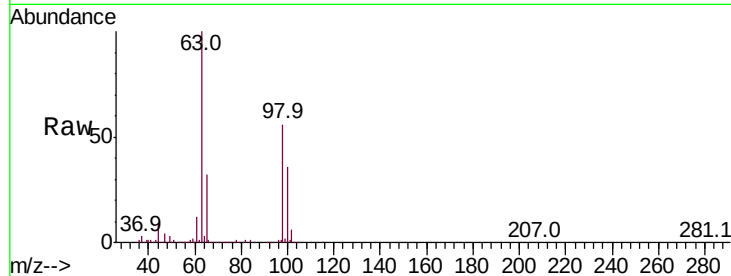
Tot Ion: 96 Resp: 1583

Ion Ratio Lower Upper

96 100

61 1249.7 120.6 224.0#

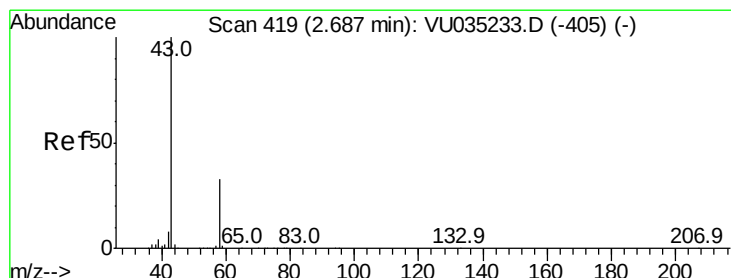
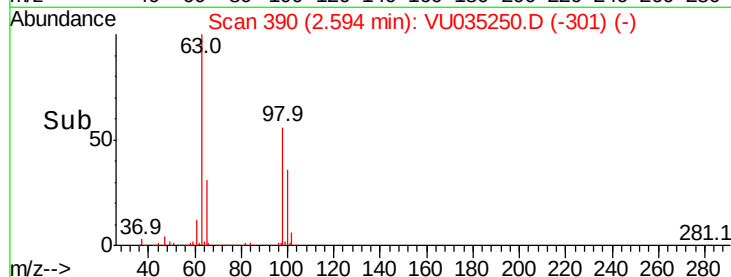
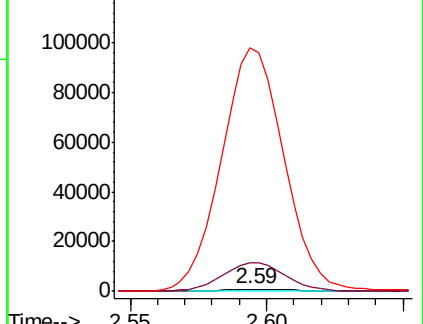
63 10686.5 86.8 161.2#



Abundance Ion 96.00 (95.70 to 96.70): VU035233.D (-380) (-)

Ion 61.05 (60.75 to 61.75): VU035233.D (-380) (-)

Ion 63.00 (62.70 to 63.70): VU035233.D (-380) (-)



#13

Acetone

Concen: 1.186 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.01 min

Lab File: VU035250.D

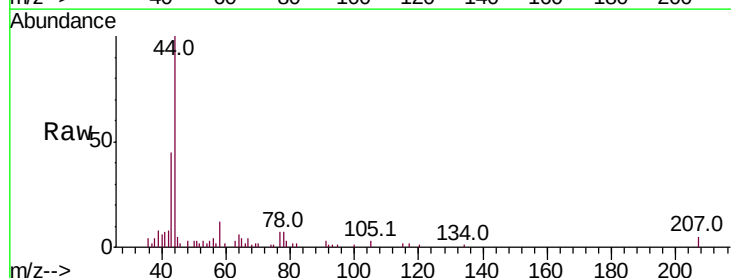
Acq: 18 Oct 2019 07:37

Tgt Ion: 43 Resp: 5219

Ion Ratio Lower Upper

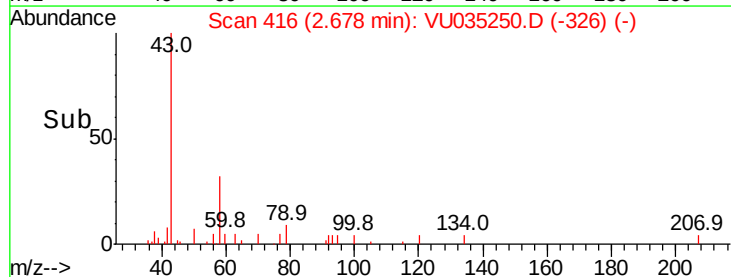
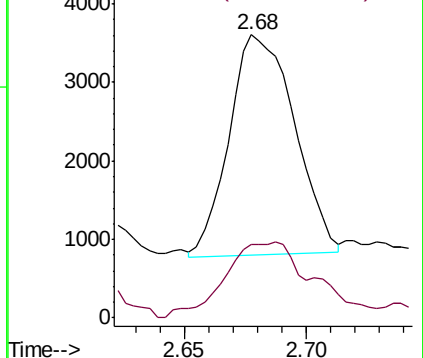
43 100

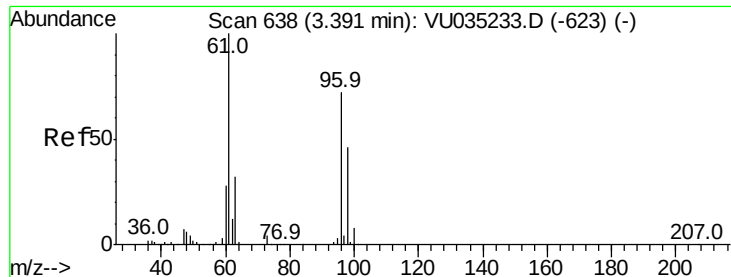
58 46.6 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035233.D (-405) (-)

Ion 58.05 (57.75 to 58.75): VU035233.D (-405) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.400 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

H0FZ8

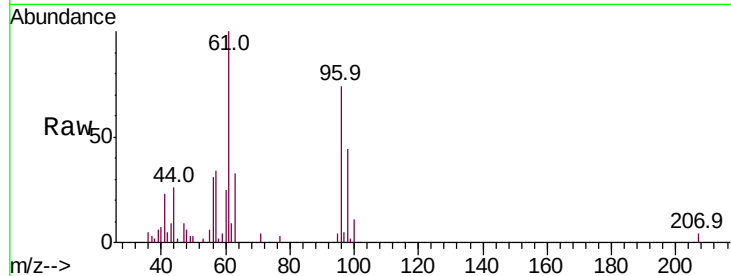
Tot Ion: 96 Resp: 9998

Ion Ratio Lower Upper

96 100

61 136.0 93.0 172.6

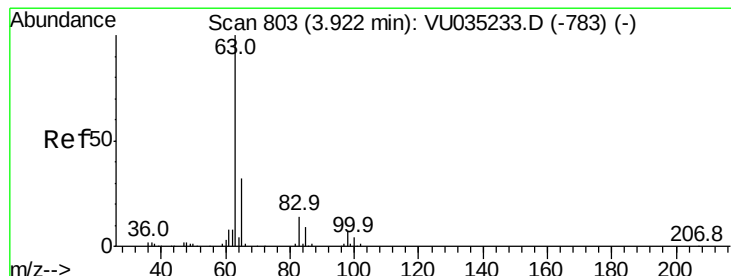
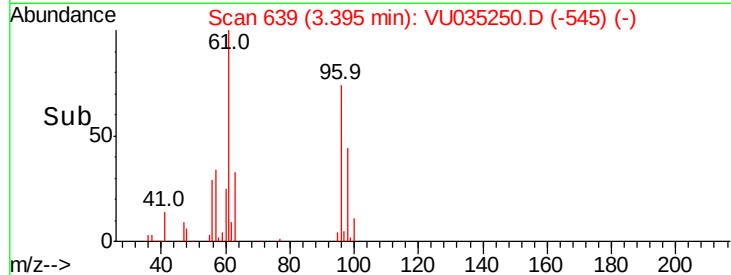
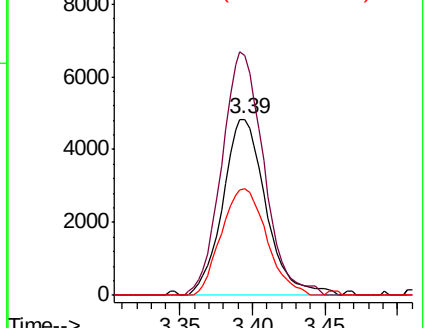
98 60.4 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU035250.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU035250.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU035250.D (-545) (-)



#19

1,1-Dichloroethane

Concen: 2.306 ug/L

RT: 3.92 min Scan# 803

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

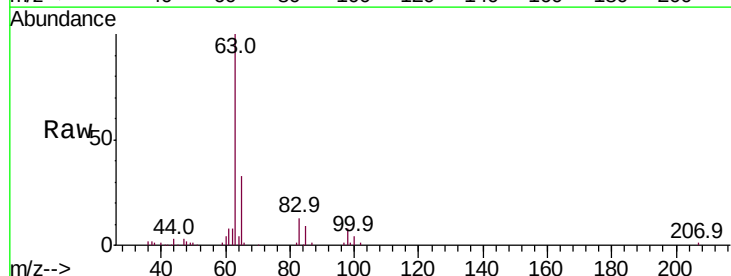
Tgt Ion: 63 Resp: 104343

Ion Ratio Lower Upper

63 100

65 32.7 22.4 41.6

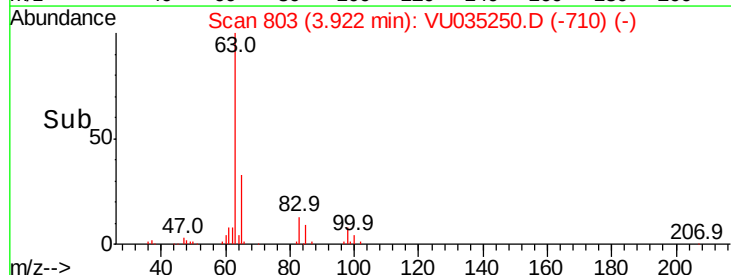
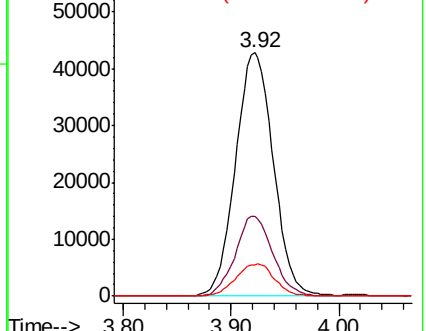
83 13.0 9.3 17.3

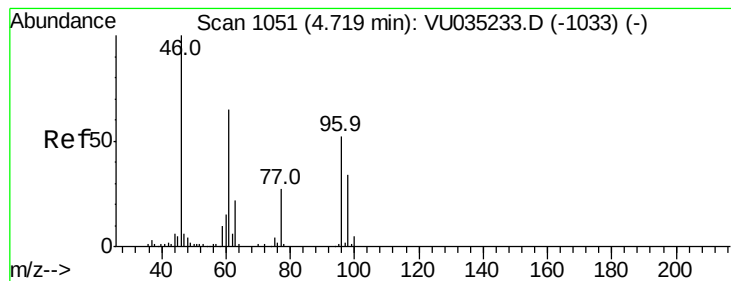


Abundance Ion 63.10 (62.80 to 63.80): VU035250.D (-710) (-)

Ion 65.10 (64.80 to 65.80): VU035250.D (-710) (-)

Ion 83.05 (82.75 to 83.75): VU035250.D (-710) (-)





#22

cis-1,2-Dichloroethene

Concen: 0.415 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :
MSVOA_U
ClientSampleId :
H0FZ8

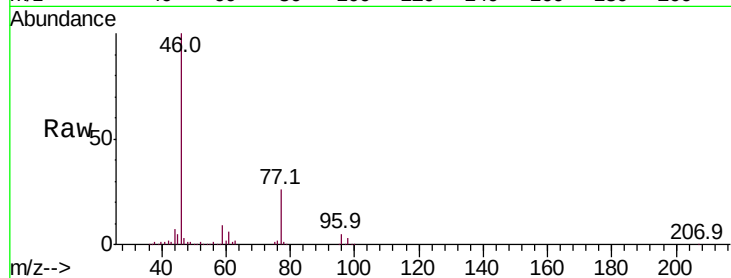
Tot Ion: 96 Resp: 11475

Ion Ratio Lower Upper

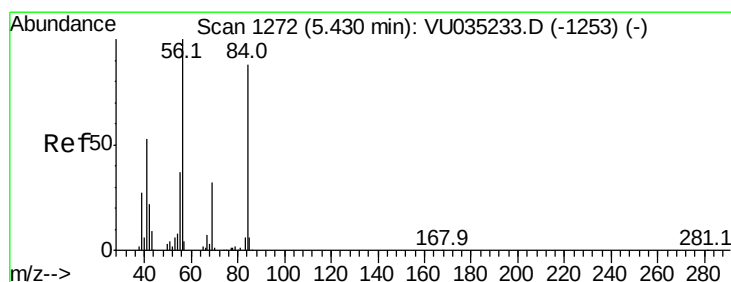
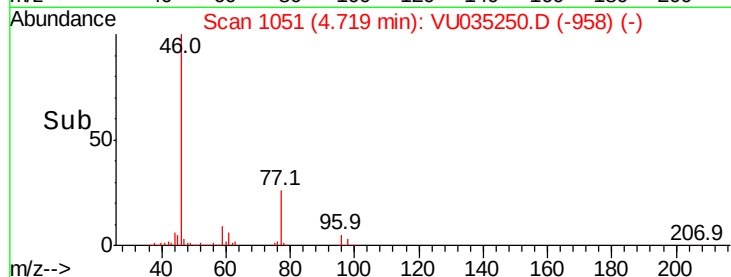
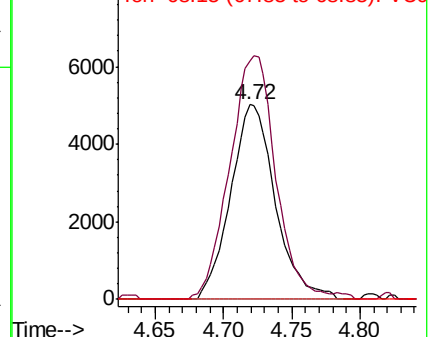
96 100

61 122.5 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



#30

Cyclohexane

Concen: 0.166 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

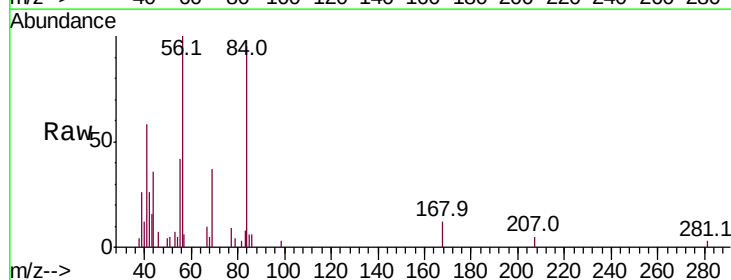
Tgt Ion: 56 Resp: 7153

Ion Ratio Lower Upper

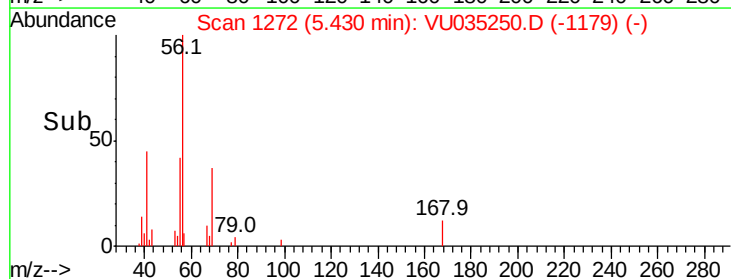
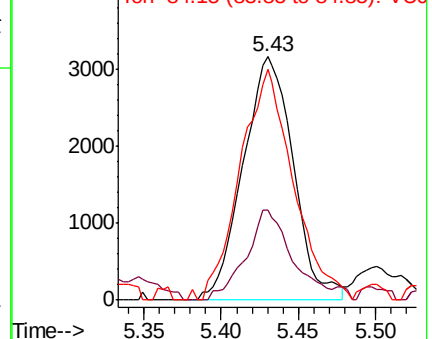
56 100

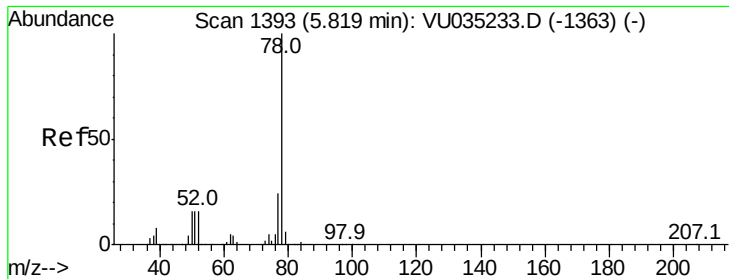
69 34.1 24.6 36.8

84 99.9 71.5 107.3



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





#33

Benzene

Concen: 0.565 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

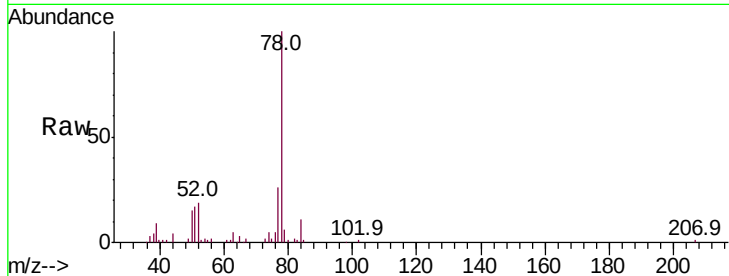
Instrument :

MSVOA_U

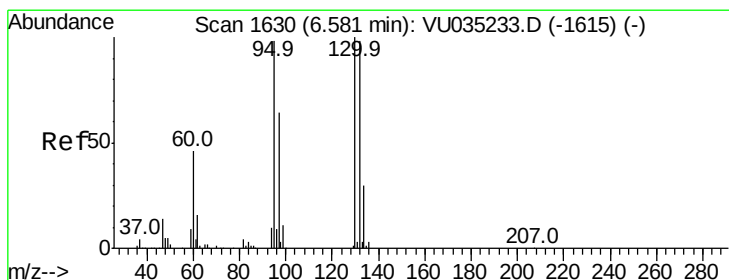
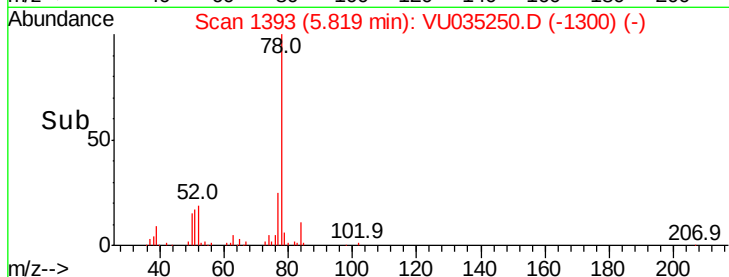
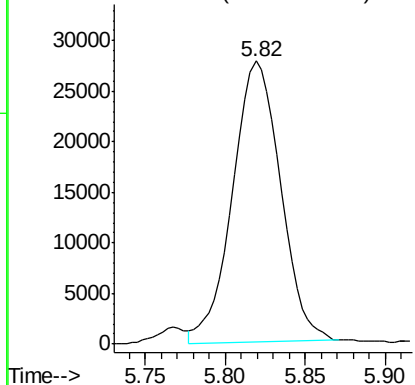
ClientSampleId :

H0FZ8

Tgt Ion: 78 Resp: 57008



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.174 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Tgt Ion: 95 Resp: 4710

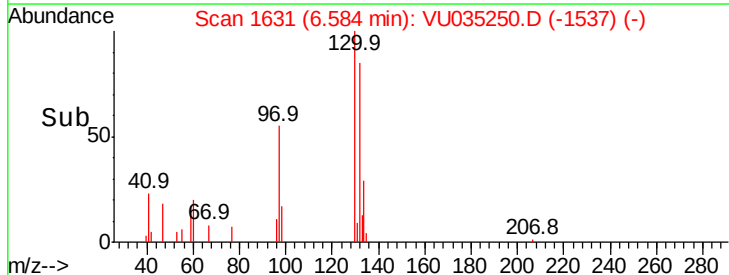
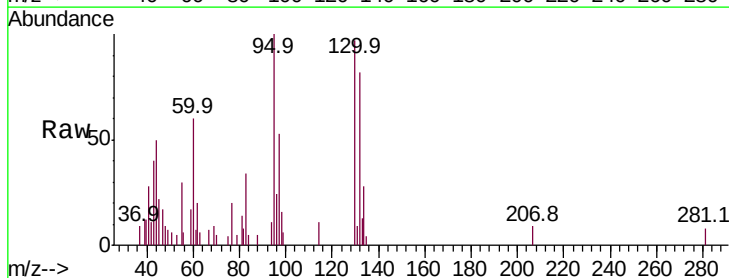
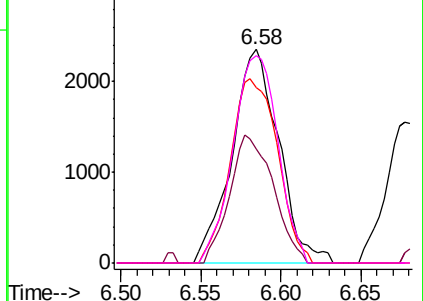
Ion	Ratio	Lower	Upper
95	100		
97	53.2	46.6	86.6
132	82.3	68.7	127.7
130	97.2	73.9	137.3

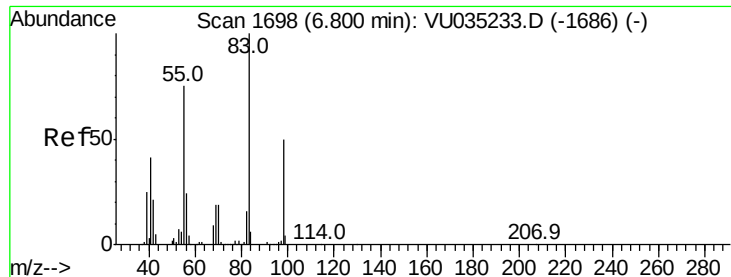
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 0.704 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

H0FZ8

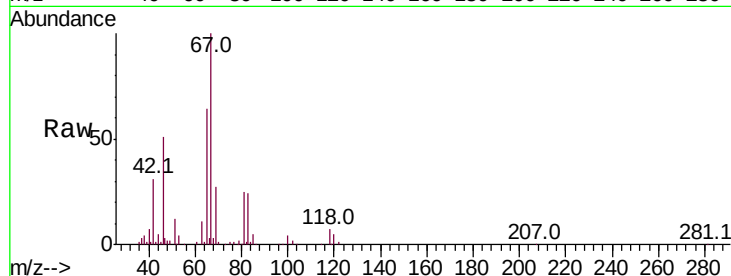
Tot Ion: 83 Resp: 31906

Ion Ratio Lower Upper

83 100

55 0.5 60.4 90.6#

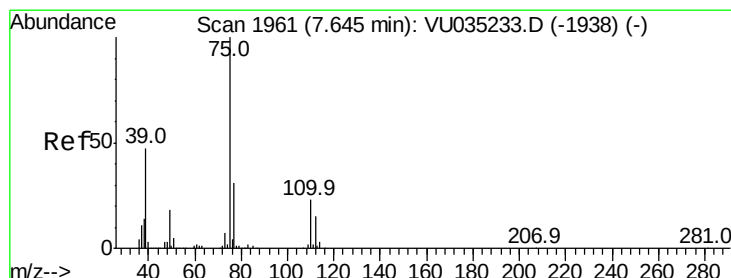
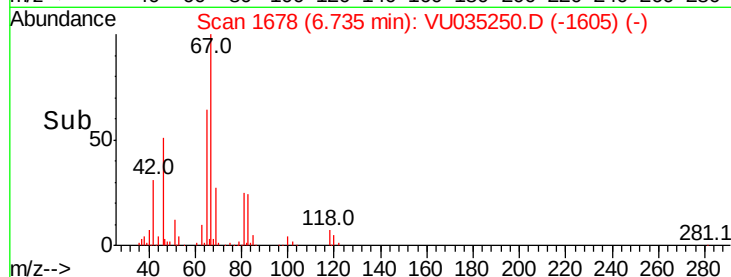
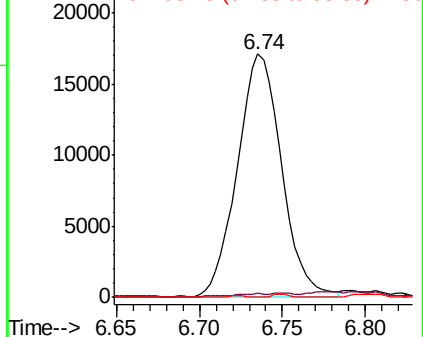
98 0.4 39.5 59.3#



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



#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 7.60 min Scan# 1947

Delta R.T. -0.05 min

Lab File: VU035250.D

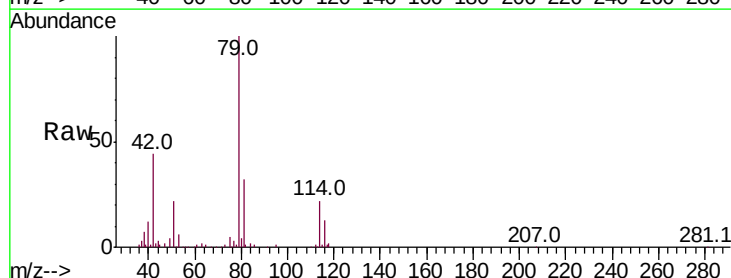
Acq: 18 Oct 2019 07:37

Tgt Ion: 75 Resp: 4071

Ion Ratio Lower Upper

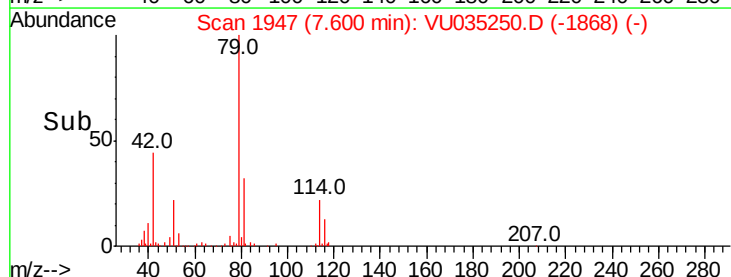
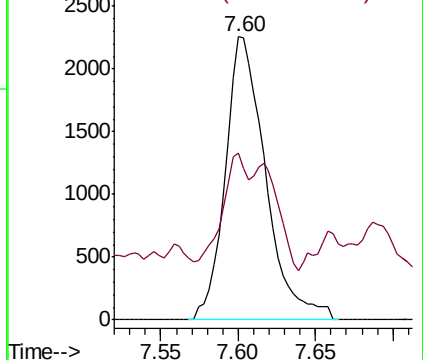
75 100

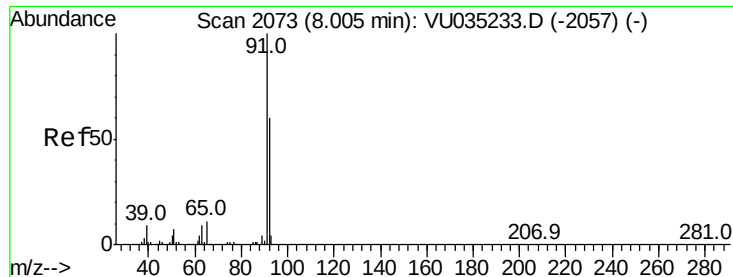
77 59.1 22.7 42.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#42

Toluene

Concen: 0.194 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

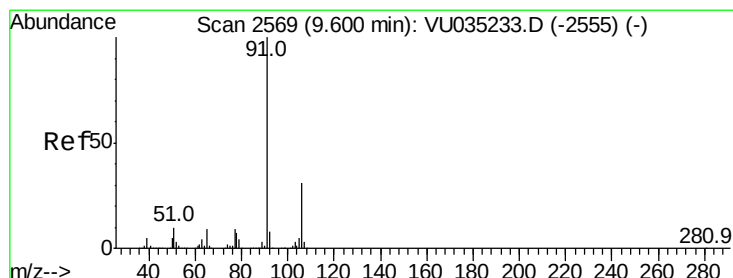
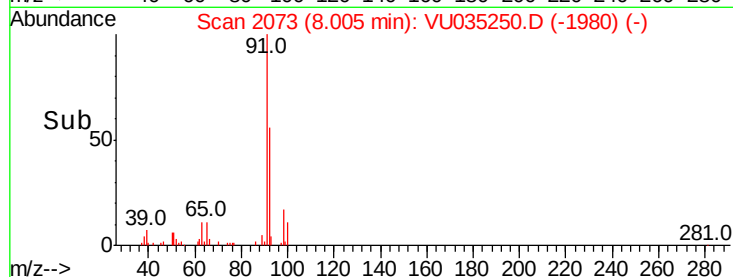
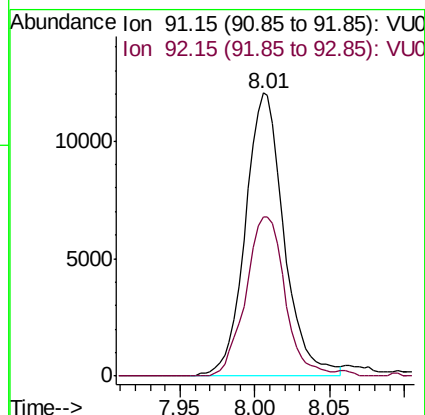
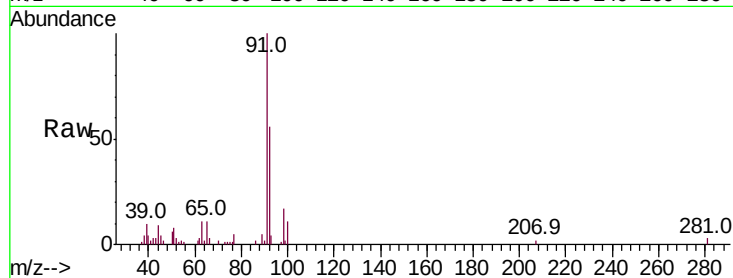
H0FZ8

Tot Ion: 91 Resp: 21651

Ion Ratio Lower Upper

91 100

92 56.1 39.9 74.1



#52

Ethylbenzene

Concen: 0.161 ug/L

RT: 9.60 min Scan# 2570

Delta R.T. 0.00 min

Lab File: VU035250.D

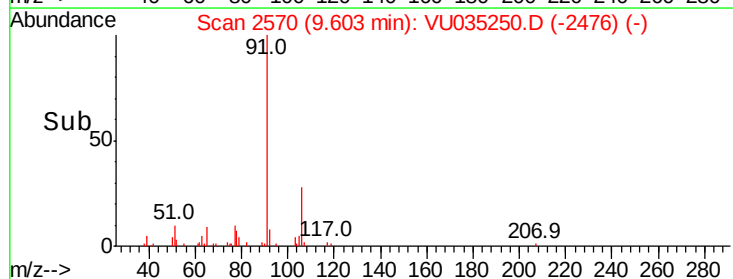
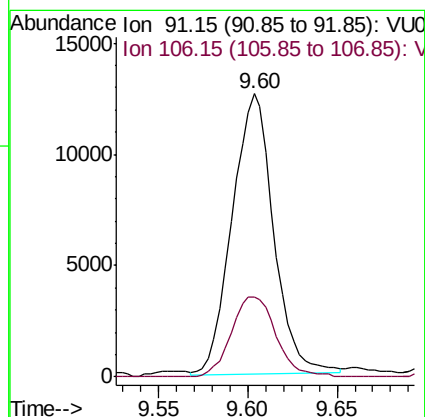
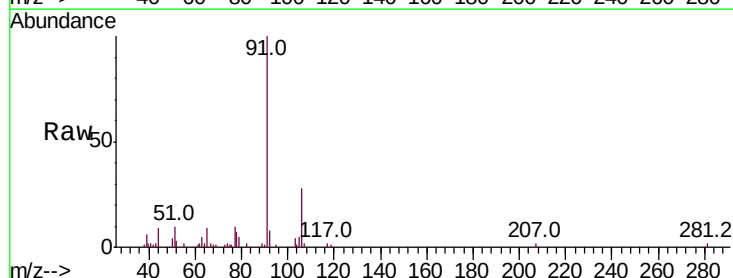
Acq: 18 Oct 2019 07:37

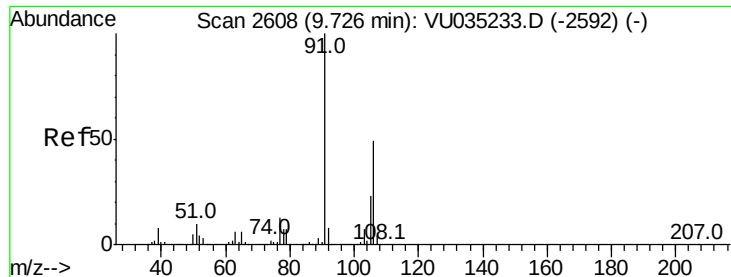
Tgt Ion: 91 Resp: 20330

Ion Ratio Lower Upper

91 100

106 28.2 21.3 39.6





#53

m,p-Xylene

Concen: 0.140 ug/L

RT: 9.73 min Scan# 2608

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

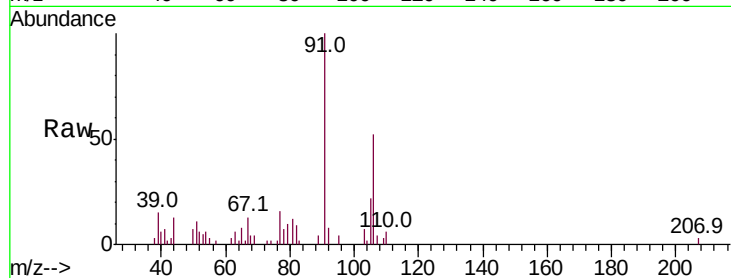
H0FZ8

Tot Ion:106 Resp: 6704

Ion Ratio Lower Upper

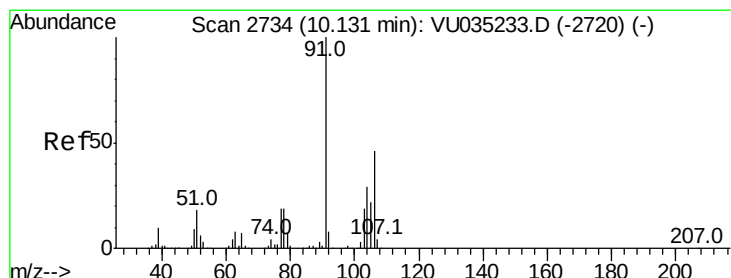
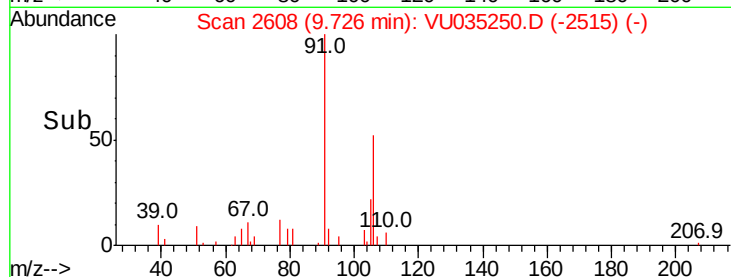
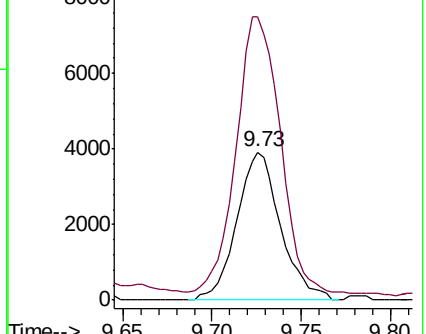
106 100

91 190.7 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.130 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035250.D

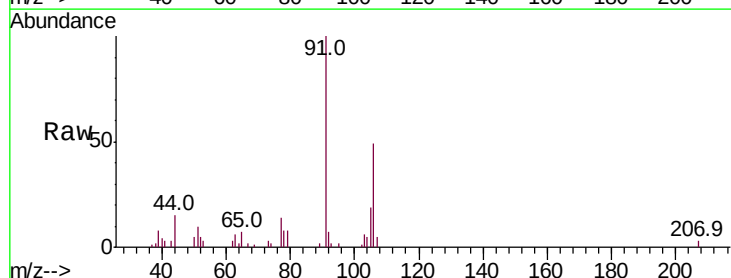
Acq: 18 Oct 2019 07:37

Tgt Ion:106 Resp: 6066

Ion Ratio Lower Upper

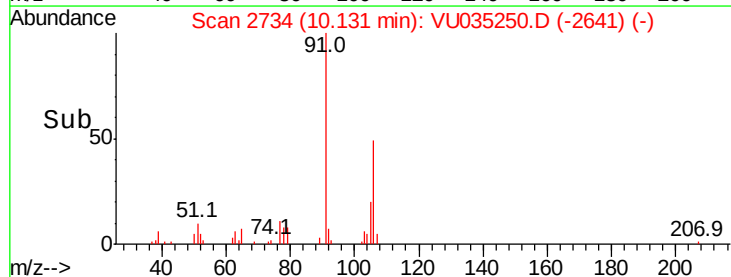
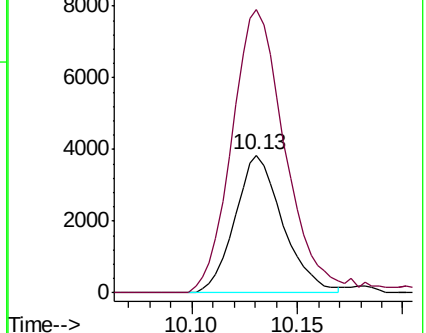
106 100

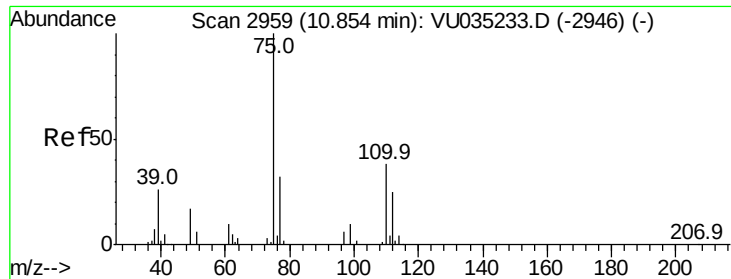
91 205.6 153.2 284.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.051 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Instrument :

MSVOA_U

ClientSampleId :

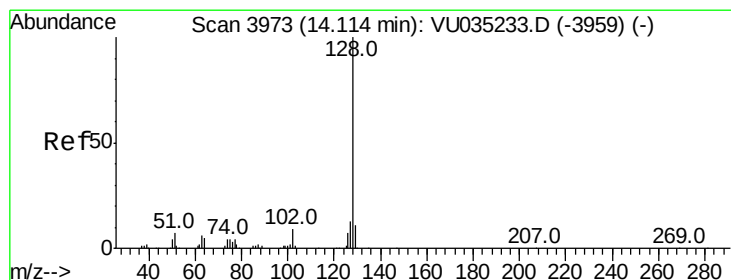
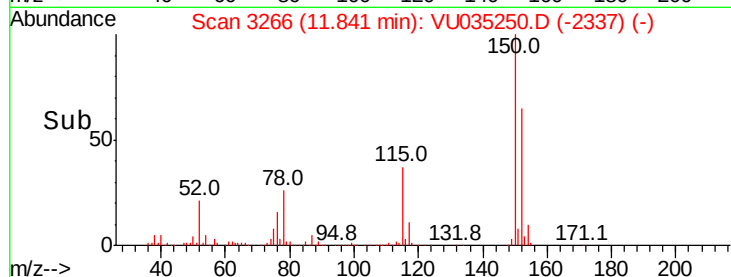
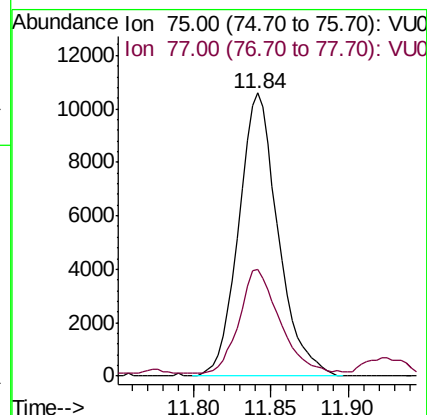
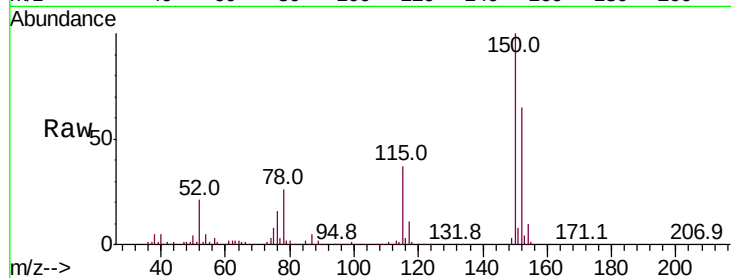
H0FZ8

Tot Ion: 75 Resp: 18747

Ion Ratio Lower Upper

75 100

77 37.4 26.2 39.2



#69

Naphthalene

Concen: 0.469 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU035250.D

Acq: 18 Oct 2019 07:37

Tgt Ion: 128 Resp: 14198

Ion Ratio Lower Upper

128 100

129 16.6 8.6 13.0#

127 13.9 10.7 16.1

