

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU101719\
 Data File : VU035244.D
 Acq On : 18 Oct 2019 05:17
 Operator : JC/SP
 Sample : K5419-13
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H0FY9

Quant Time: Nov 01 23:55:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 18 05:36:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	358185	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	341184	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	159601	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	144785	6.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	132.60%#
7) Chloroethane-d5	1.93	69	104285	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.60	63	187521	4.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.80%
20) 2-Butanone-d5	4.71	46	301421	48.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.04%
24) Chloroform-d	5.11	84	191081	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.75	65	113103	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.20%
32) Benzene-d6	5.77	84	411333	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.40%
36) 1,2-Dichloropropane-d6	6.74	67	132791	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	107.20%
41) Toluene-d8	7.93	98	393016	5.27	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.40%
43) trans-1,3-Dichloropropene-	8.22	79	54349	4.52	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.40%
46) 2-Hexanone-d5	8.68	63	260085	49.05	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.10%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	109294	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	152079	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

					Qvalue
5) Vinyl chloride	1.62	62	3991522	128.525 ug/L	99
8) Chloroethane	1.95	64	27572	1.377 ug/L	100
13) Acetone	2.68	43	6332	1.450 ug/L	82
16) Methylene chloride	3.08	84	4231	0.153 ug/L	94
18) trans-1,2-Dichloroethene	3.39	96	862044	34.712 ug/L	95
19) 1,1-Dichloroethane	3.92	63	43108	0.960 ug/L	99
22) cis-1,2-Dichloroethene	4.72	96	5158432	187.930 ug/L	100
25) Chloroform	5.14	83	11738	0.238 ug/L	98
30) Cyclohexane	5.43	56	5921	0.138 ug/L #	94
33) Benzene	5.82	78	252801	2.518 ug/L	100
34) Trichloroethene	6.58	95	256001	9.485 ug/L	98
35) Methylcyclohexane	6.80	83	6220	0.138 ug/L #	68
42) Toluene	8.01	91	496613	4.481 ug/L	99
45) 1,1,2-Trichloroethane	8.44	97	2038	0.108 ug/L	95
51) Chlorobenzene	9.48	112	7219	0.101 ug/L	92
52) Ethylbenzene	9.60	91	146646	1.164 ug/L	98
53) m,p-Xylene	9.72	106	94925	1.995 ug/L	98

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Response via : Initial Calibration

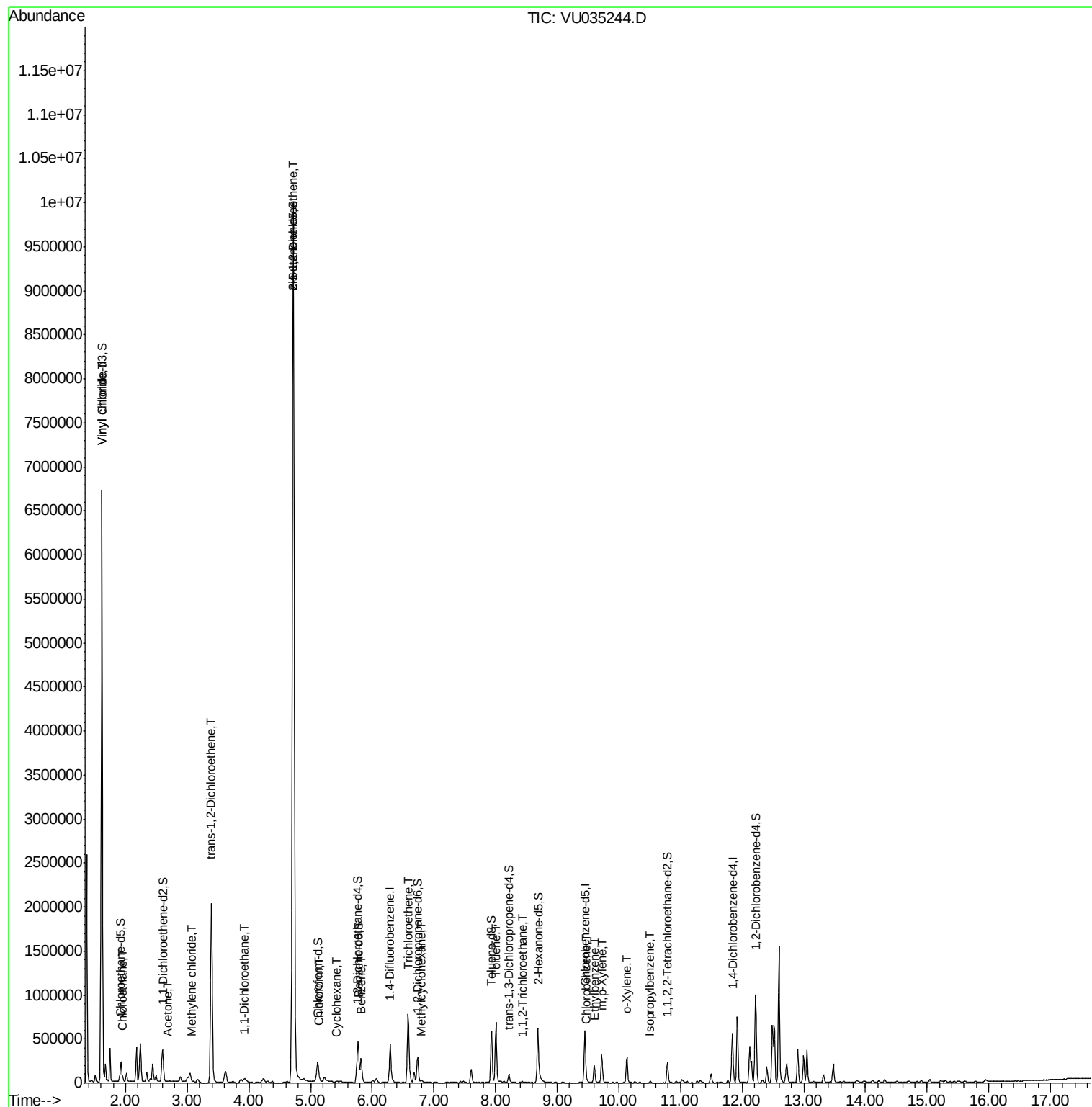
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.13	106	78826	1.697	ug/L	99
56) Isopropylbenzene	10.51	105	10266	0.082	ug/L #	90

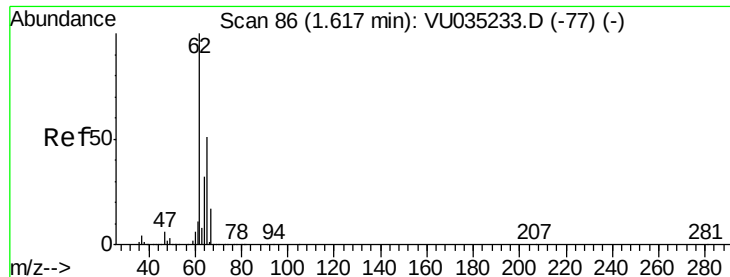
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 128.525 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

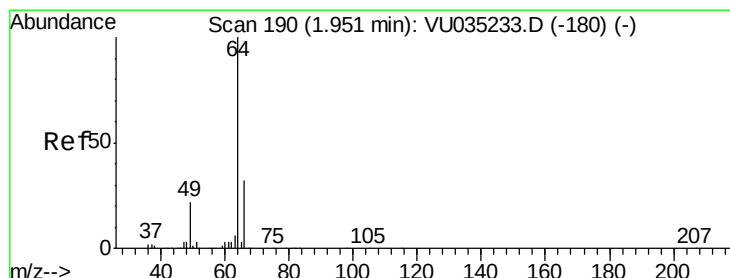
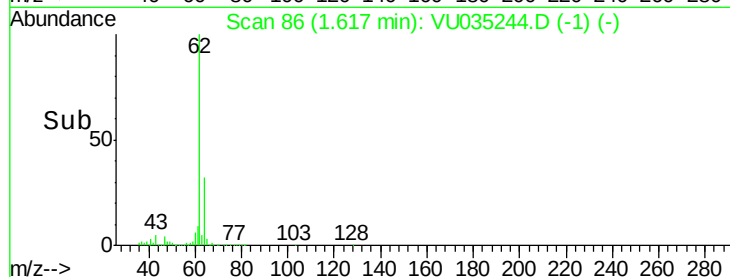
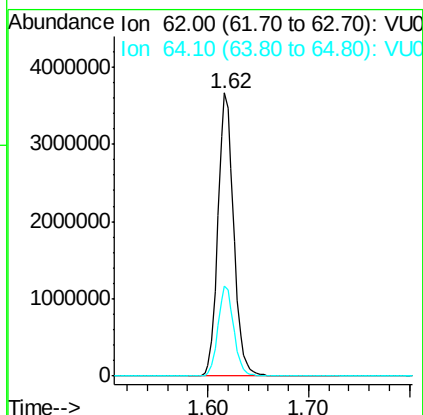
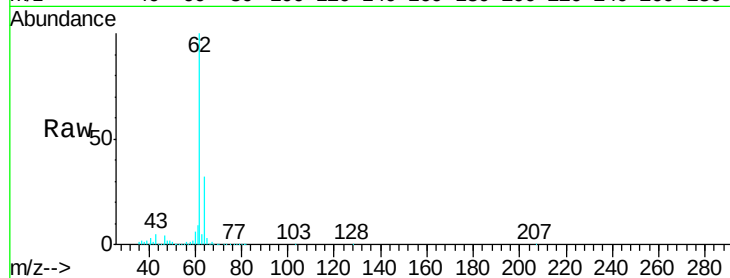
H0FY9

Tgt Ion: 62 Resp: 3991522

Ion Ratio Lower Upper

62 100

64 31.9 22.9 42.5



#8

Chloroethane

Concen: 1.377 ug/L

RT: 1.95 min Scan# 191

Delta R.T. 0.00 min

Lab File: VU035244.D

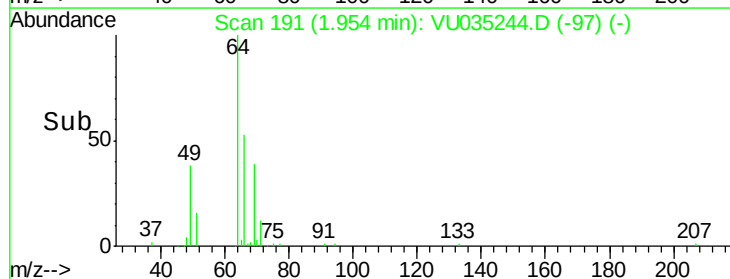
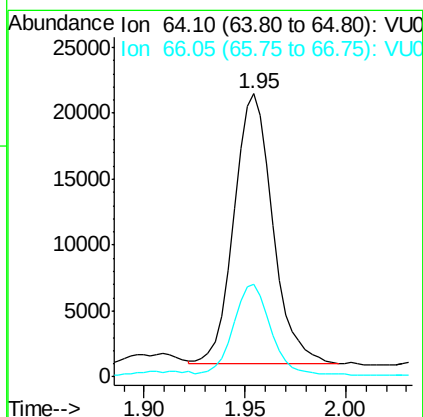
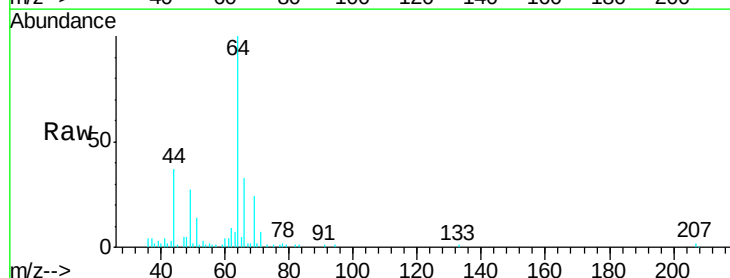
Acq: 18 Oct 2019 05:17

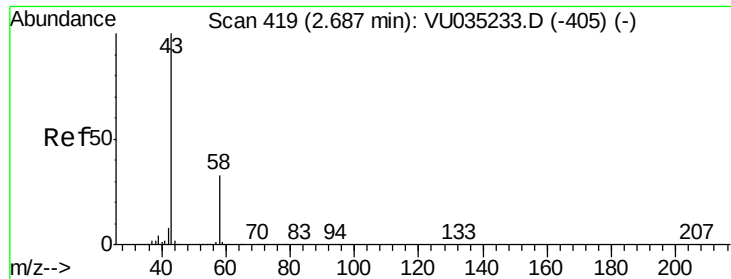
Tgt Ion: 64 Resp: 27572

Ion Ratio Lower Upper

64 100

66 32.6 22.7 42.1





#13

Acetone

Concen: 1.450 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.01 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

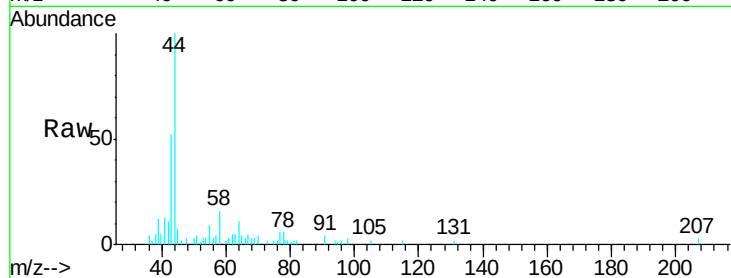
H0FY9

Tgt Ion: 43 Resp: 6332

Ion Ratio Lower Upper

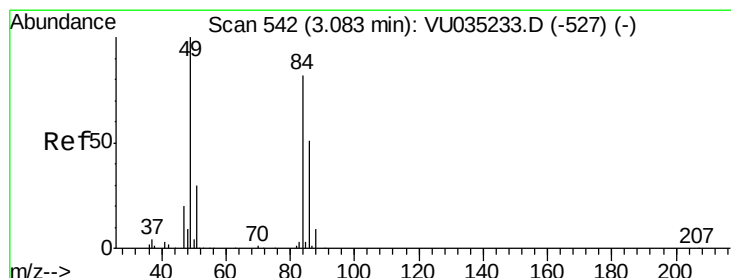
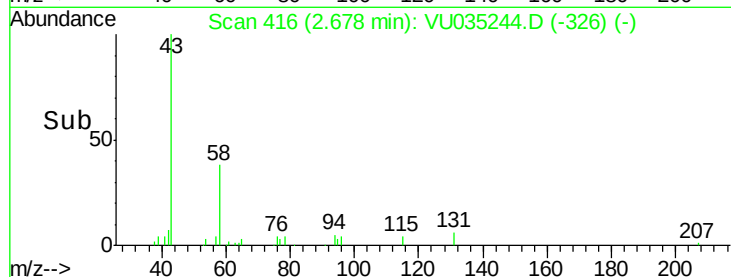
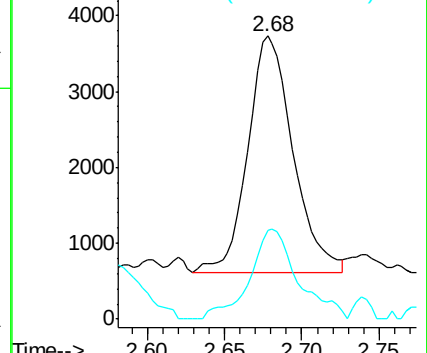
43 100

58 40.6 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) (-)



#16

Methylene chloride

Concen: 0.153 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

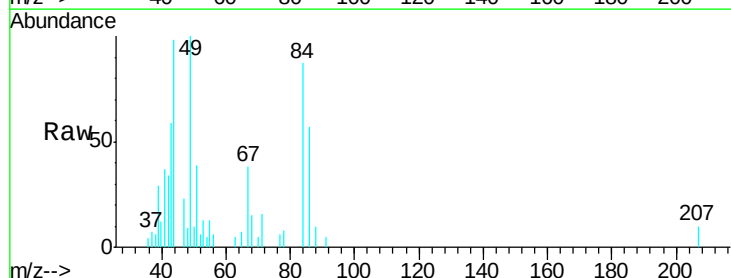
Tgt Ion: 84 Resp: 4231

Ion Ratio Lower Upper

84 100

86 65.7 45.4 84.2

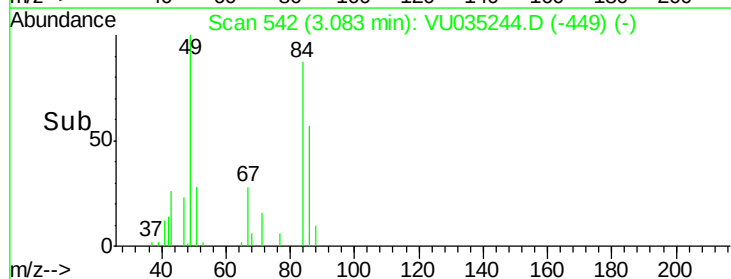
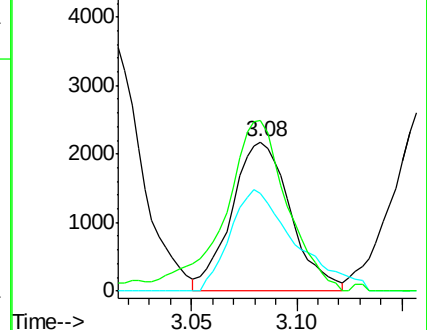
49 114.6 86.8 161.2

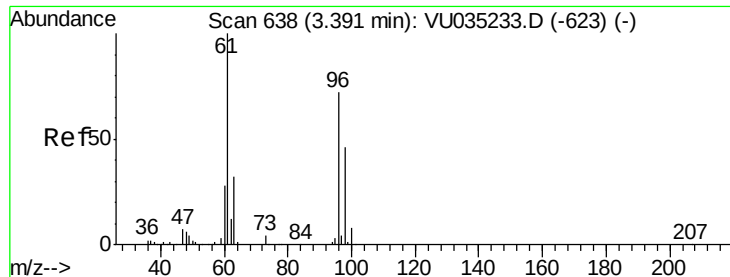


Abundance Ion 84.05 (83.75 to 84.75): VU035233.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU035233.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU035233.D (-527) (-)





#18

trans-1,2-Dichloroethene

Concen: 34.712 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

H0FY9

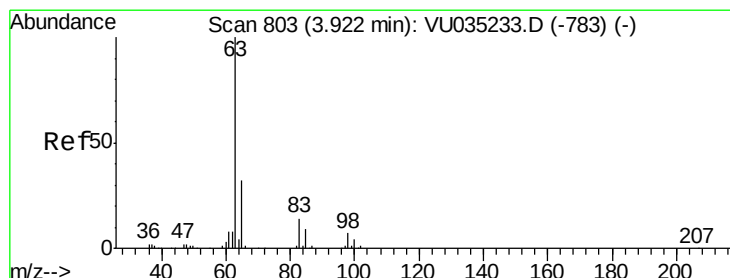
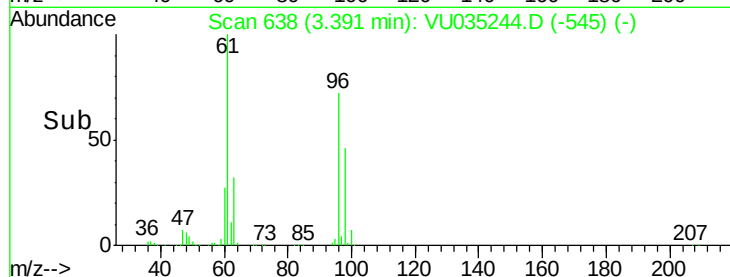
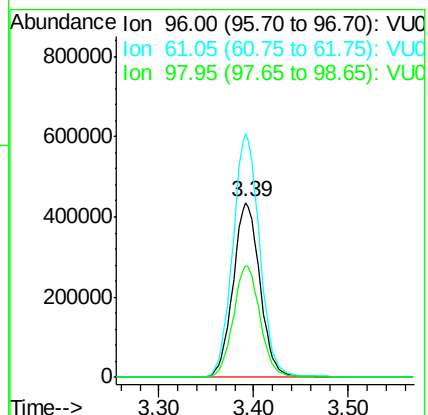
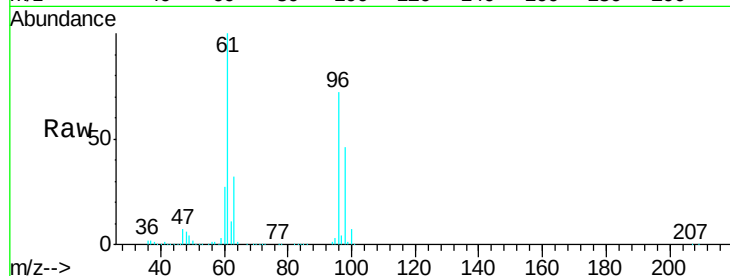
Tgt Ion: 96 Resp: 862044

Ion Ratio Lower Upper

96 100

61 139.5 93.0 172.6

98 64.0 43.7 81.1



#19

1,1-Dichloroethane

Concen: 0.960 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

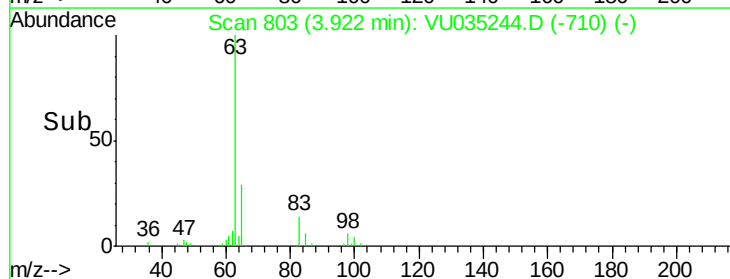
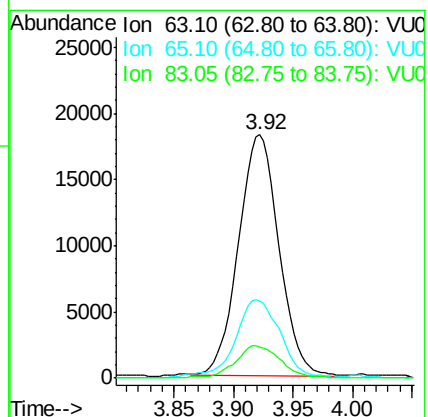
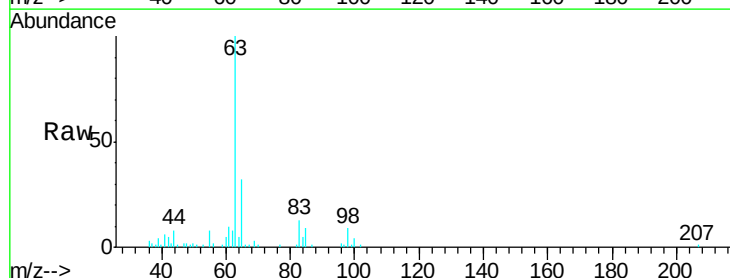
Tgt Ion: 63 Resp: 43108

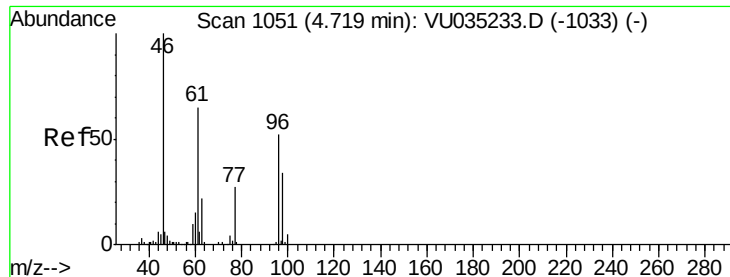
Ion Ratio Lower Upper

63 100

65 31.6 22.4 41.6

83 13.0 9.3 17.3





#22

cis-1,2-Dichloroethene

Concen: 187.930 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

H0FY9

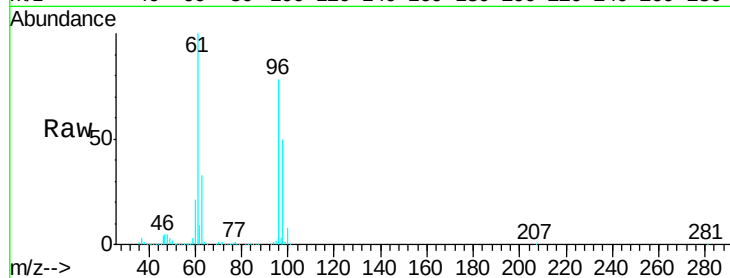
Tgt Ion: 96 Resp: 5158432

Ion Ratio Lower Upper

96 100

61 127.6 89.7 166.5

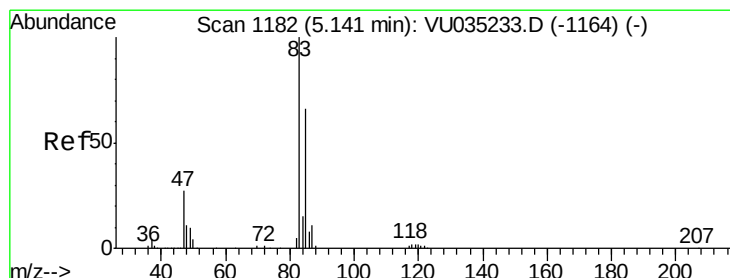
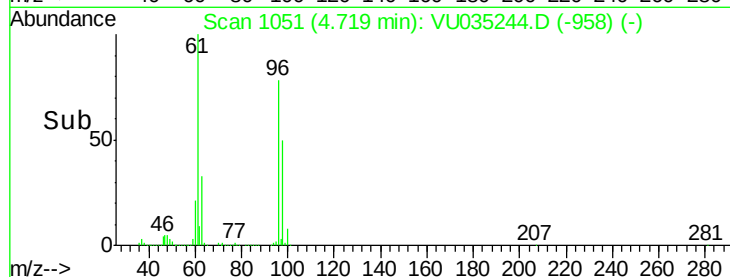
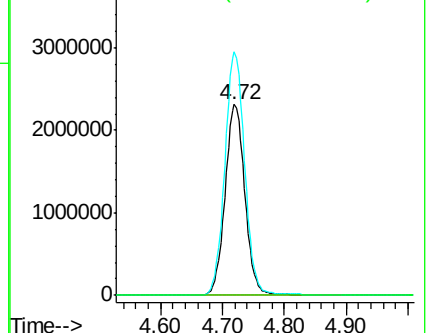
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035233.D (-1033) (-)

Ion 61.05 (60.75 to 61.75): VU035233.D (-1033) (-)

Ion 68.15 (67.85 to 68.85): VU035233.D (-1033) (-)



#25

Chloroform

Concen: 0.238 ug/L

RT: 5.14 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VU035244.D

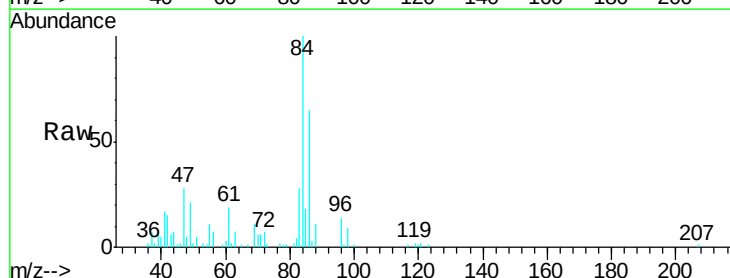
Acq: 18 Oct 2019 05:17

Tgt Ion: 83 Resp: 11738

Ion Ratio Lower Upper

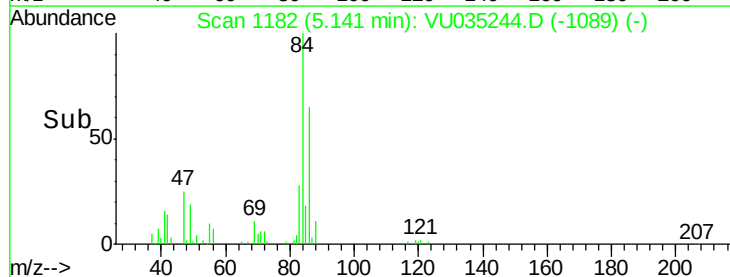
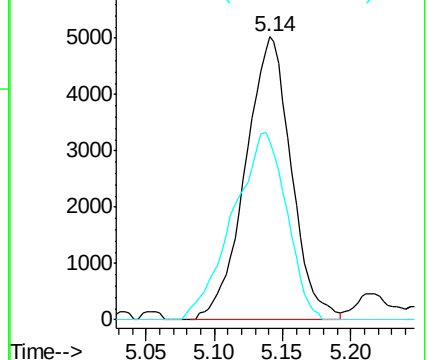
83 100

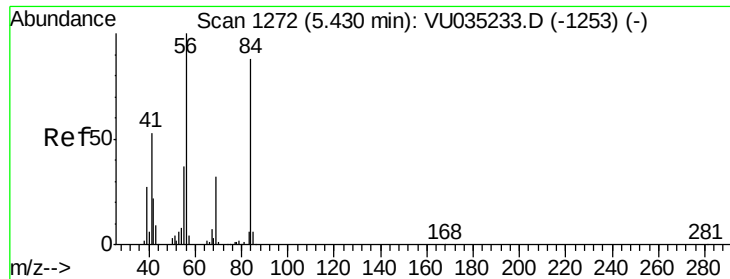
85 63.2 45.1 83.9



Abundance Ion 83.05 (82.75 to 83.75): VU035233.D (-1164) (-)

Ion 85.00 (84.70 to 85.70): VU035233.D (-1164) (-)

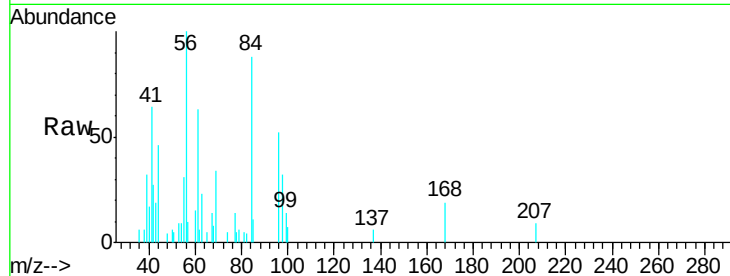




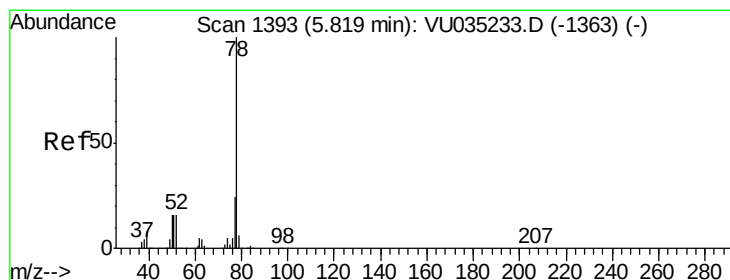
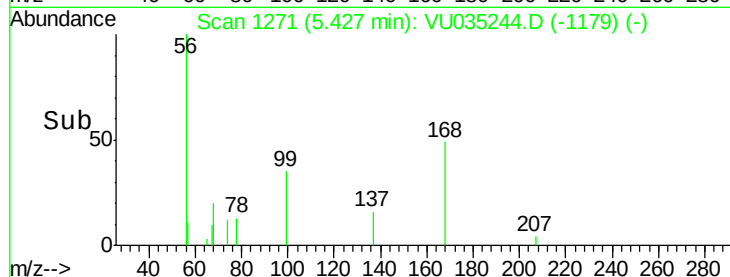
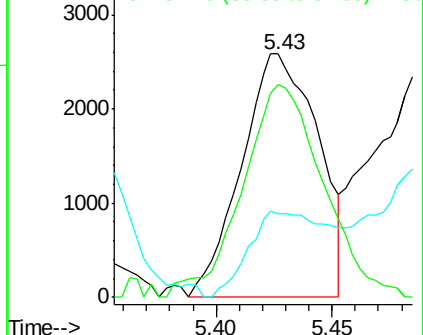
#30
Cyclohexane
Concen: 0.138 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VU035244.D
Acq: 18 Oct 2019 05:17

Instrument :
MSVOA_U
ClientSampled :
H0FY9

Tgt Ion: 56 Resp: 5921
Ion Ratio Lower Upper
56 100
69 38.7 24.6 36.8#
84 92.3 71.5 107.3

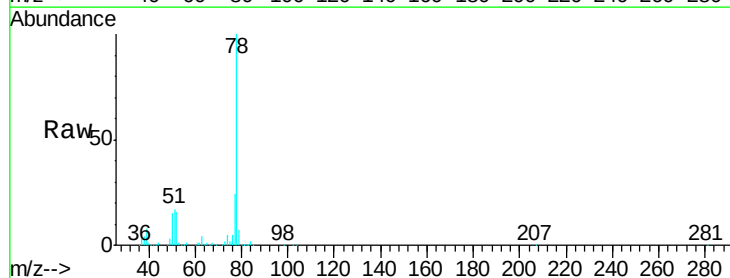


Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0

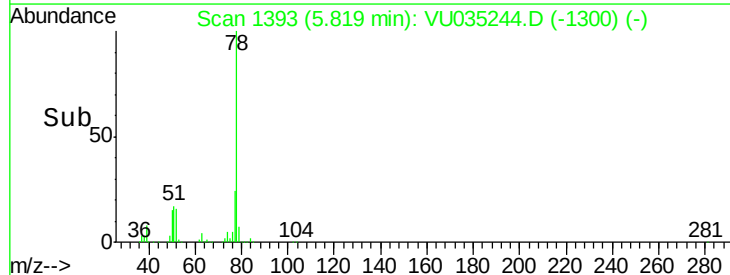
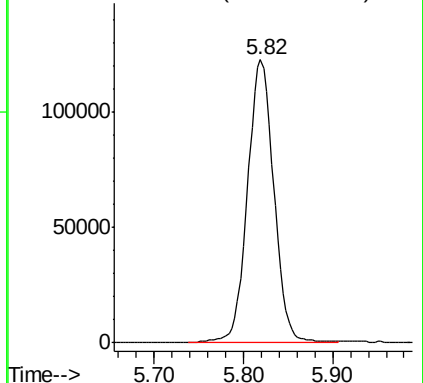


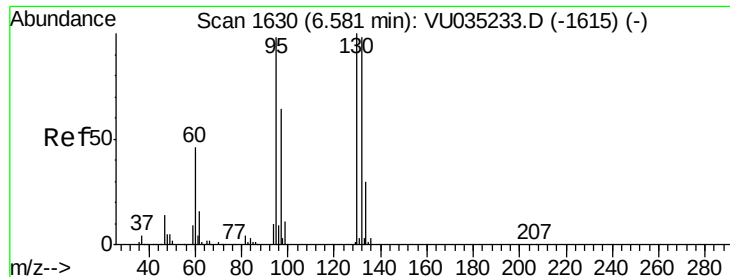
#33
Benzene
Concen: 2.518 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VU035244.D
Acq: 18 Oct 2019 05:17

Tgt Ion: 78 Resp: 252801



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 9.485 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

H0FY9

Tgt Ion: 95 Resp: 256001

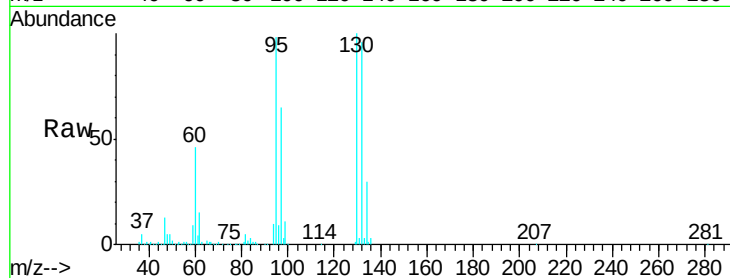
Ion Ratio Lower Upper

95 100

97 65.7 46.6 86.6

132 97.9 68.7 127.7

130 101.6 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

200000

150000

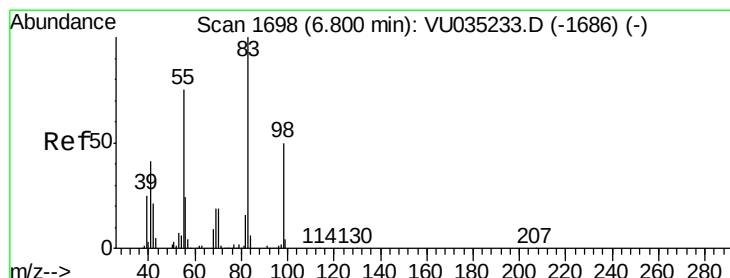
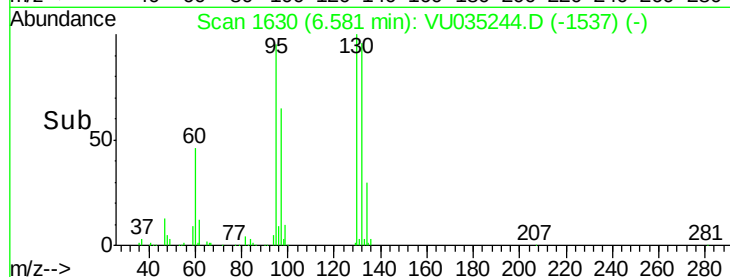
100000

50000

0

6.50 6.55 6.60 6.65

Time-->



#35

Methylcyclohexane

Concen: 0.138 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

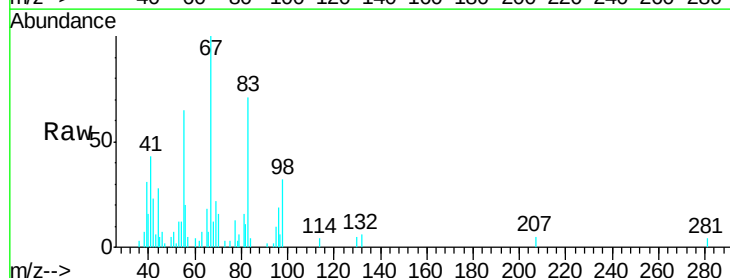
Tgt Ion: 83 Resp: 6220

Ion Ratio Lower Upper

83 100

55 119.1 60.4 90.6#

98 47.8 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

20000

15000

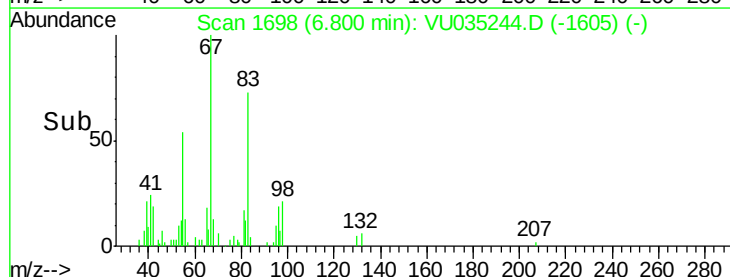
10000

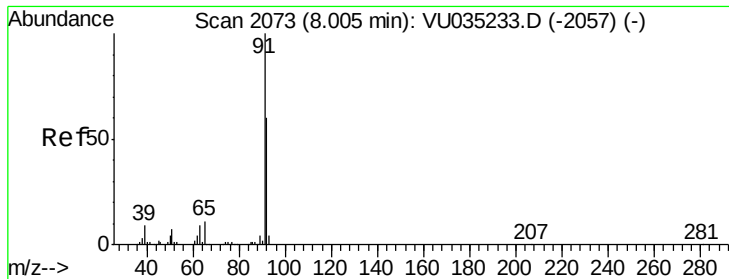
5000

0

6.75 6.80 6.85

Time-->





#42

Toluene

Concen: 4.481 ug/L

RT: 8.01 min Scan# 2073

Delta R.T. 0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

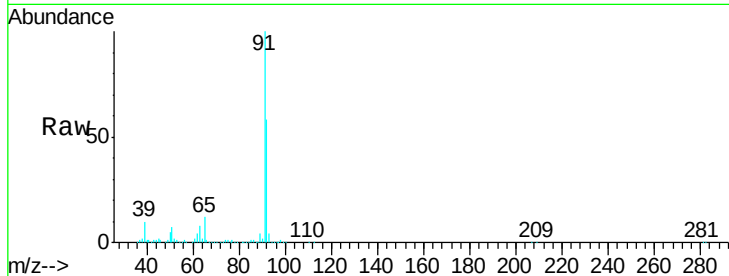
H0FY9

Tgt Ion: 91 Resp: 496613

Ion Ratio Lower Upper

91 100

92 58.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VU035233.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU035233.D (-2057) (-)

8.01

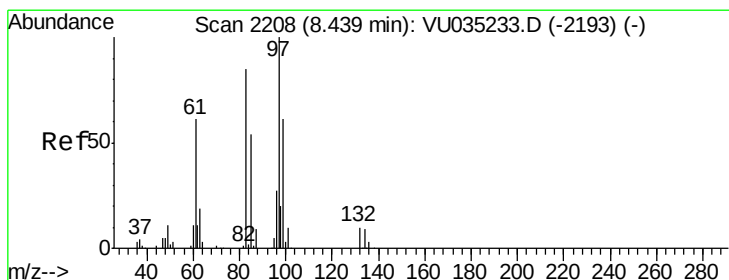
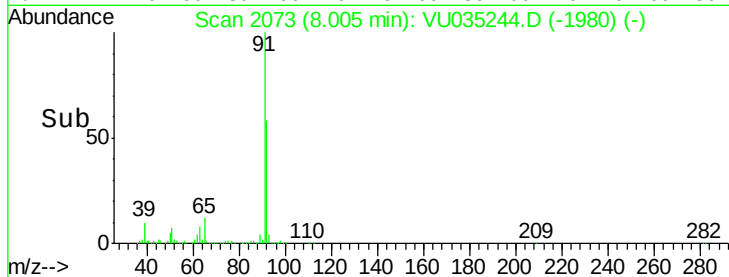
300000

200000

100000

0

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.108 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. -0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Tgt Ion: 97 Resp: 2038

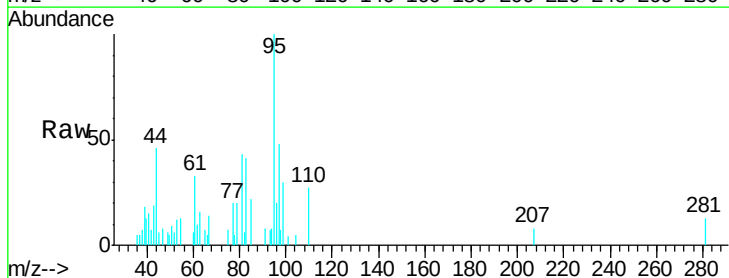
Ion Ratio Lower Upper

97 100

99 62.2 42.9 79.7

83 84.9 60.4 112.2

85 44.4 38.4 71.2



Abundance Ion 96.95 (96.65 to 97.65): VU035233.D (-2193) (-)

Ion 99.05 (98.75 to 99.75): VU035233.D (-2193) (-)

Ion 82.95 (82.65 to 83.65): VU035233.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035233.D (-2193) (-)

8.44

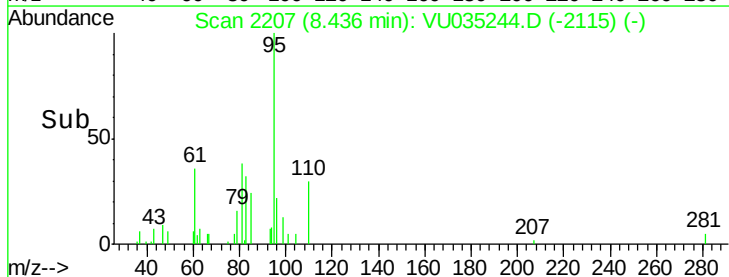
1500

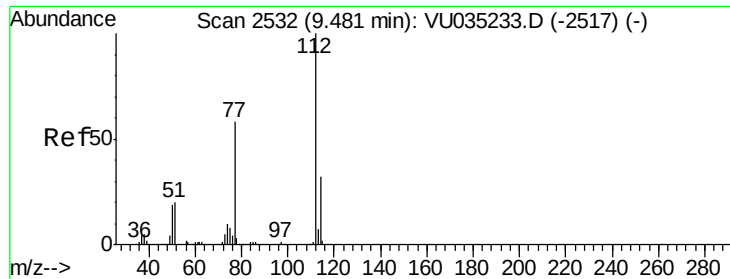
1000

500

0

Time-->

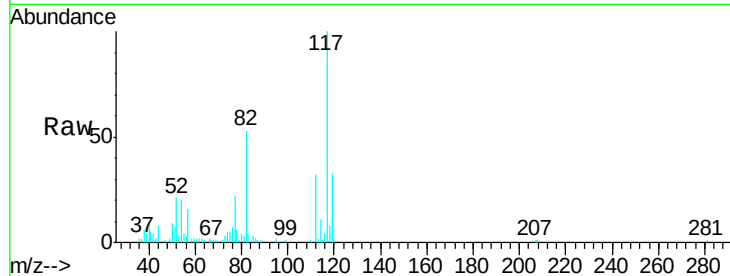




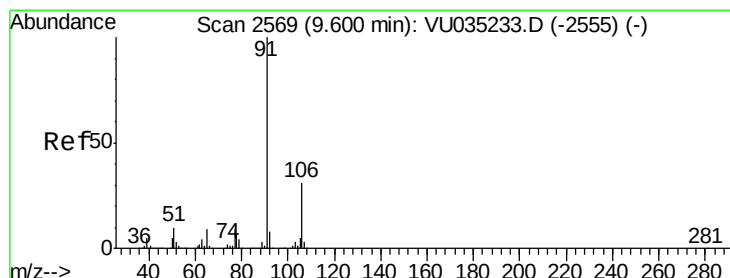
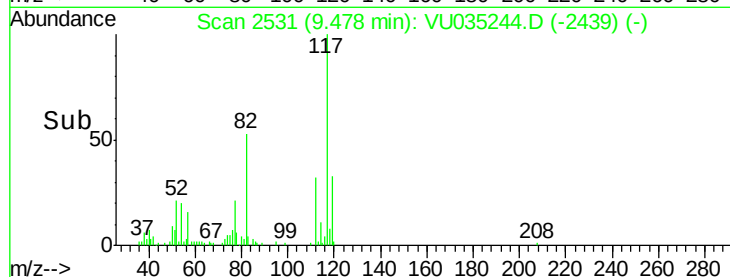
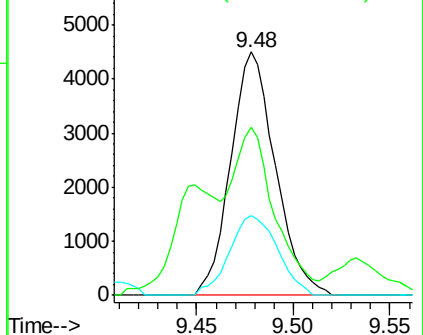
#51
Chlorobenzene
Concen: 0.101 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU035244.D
Acq: 18 Oct 2019 05:17

Instrument :
MSVOA_U
ClientSampleId :
H0FY9

Tgt Ion: 112 Resp: 7219
Ion Ratio Lower Upper
112 100
114 32.7 23.0 42.8
77 69.1 47.5 71.3

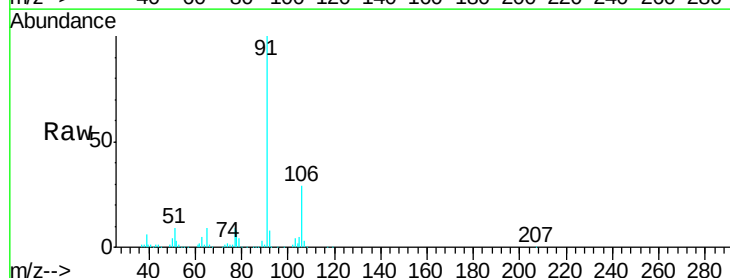


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

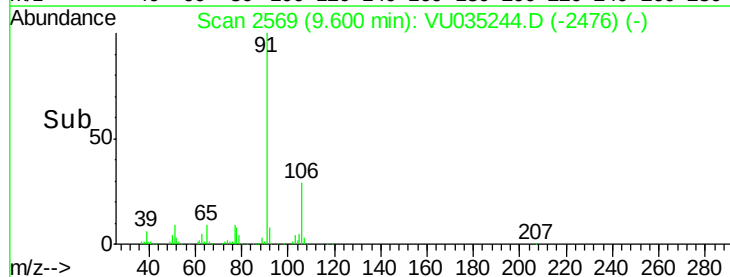
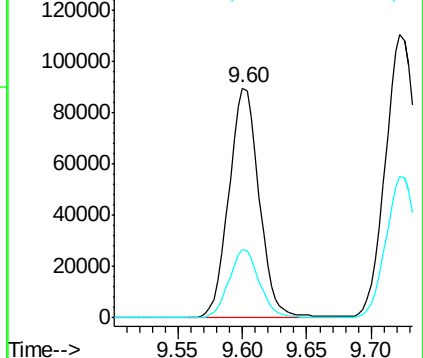


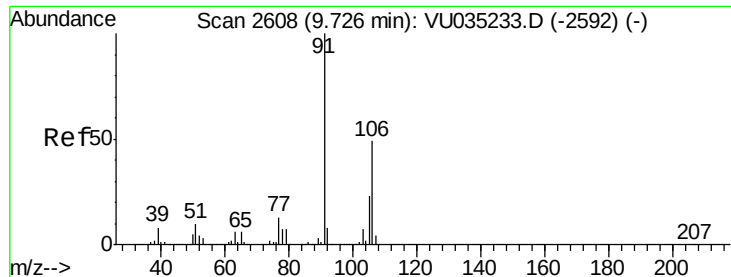
#52
Ethylbenzene
Concen: 1.164 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. 0.00 min
Lab File: VU035244.D
Acq: 18 Oct 2019 05:17

Tgt Ion: 91 Resp: 146646
Ion Ratio Lower Upper
91 100
106 29.5 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: 1.995 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035244.D

Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

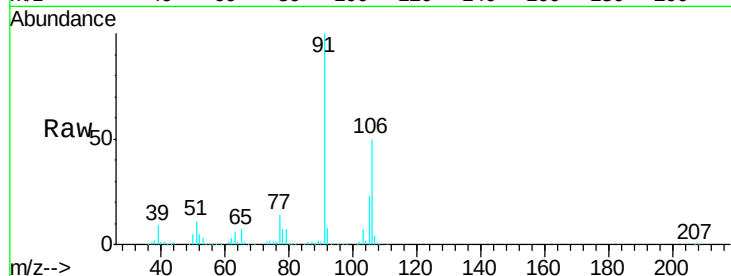
H0FY9

Tgt Ion:106 Resp: 94925

Ion Ratio Lower Upper

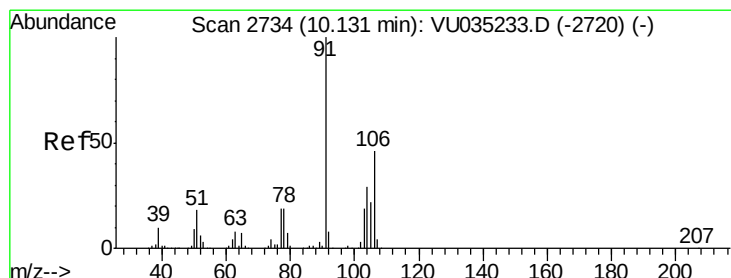
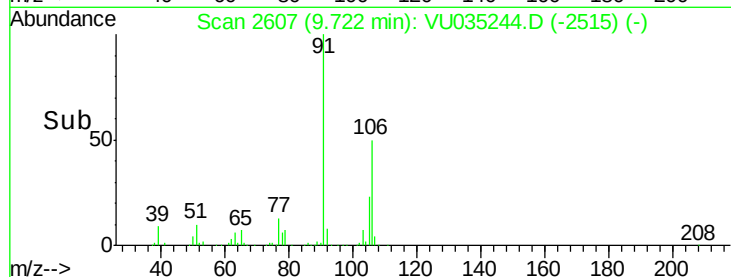
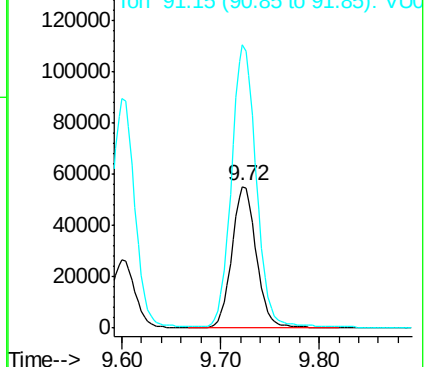
106 100

91 200.2 142.0 263.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 1.697 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU035244.D

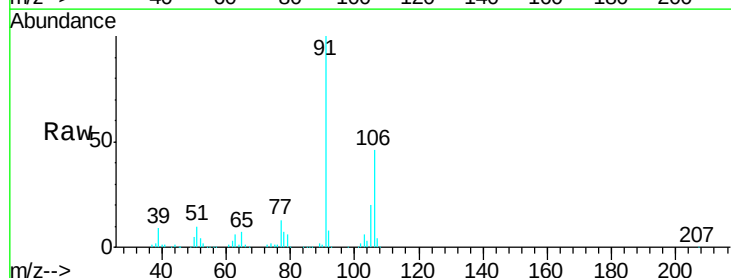
Acq: 18 Oct 2019 05:17

Tgt Ion:106 Resp: 78826

Ion Ratio Lower Upper

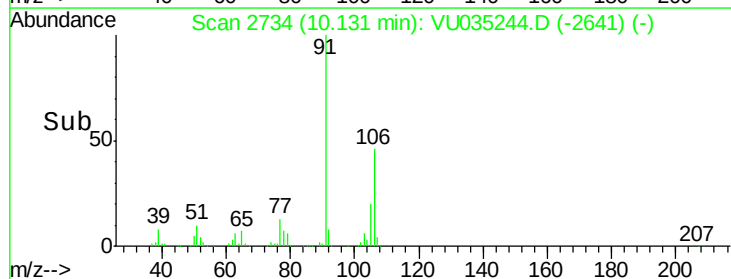
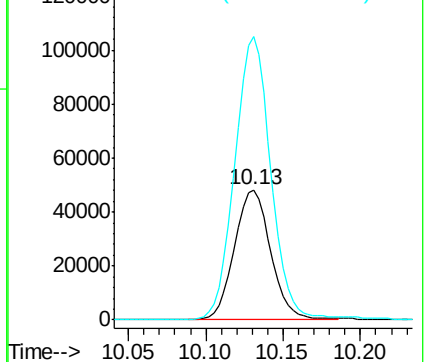
106 100

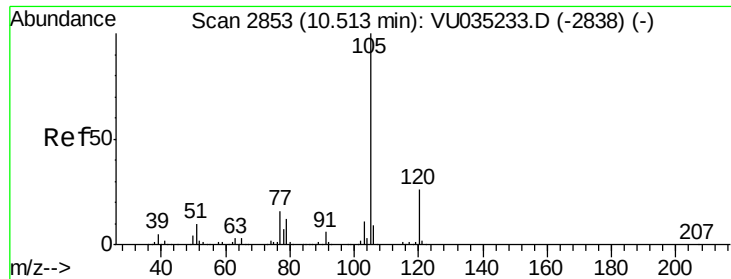
91 217.8 153.2 284.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#56

Isopropylbenzene

Concen: 0.082 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU035244.D

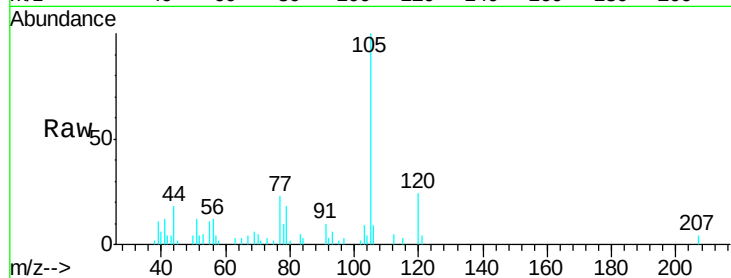
Acq: 18 Oct 2019 05:17

Instrument :

MSVOA_U

ClientSampleId :

H0FY9



Tgt Ion:	105	Resp:	10266
Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.0	31.6
77	26.0	12.6	19.0#

