

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102219\
 Data File : VU035362.D
 Acq On : 22 Oct 2019 14:00
 Operator : JC/SP
 Sample : K5461-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 23 06:53:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR101719WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 06:48:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	320063	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	304466	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	107015	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	128985	6.61	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	132.20%#
7) Chloroethane-d5	1.93	69	114933	6.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	128.80%
11) 1,1-Dichloroethene-d2	2.60	63	175157	4.85	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.00%
20) 2-Butanone-d5	4.72	46	300317	53.55	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.10%
24) Chloroform-d	5.11	84	189910	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
26) 1,2-Dichloroethane-d4	5.75	65	113188	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.60%
32) Benzene-d6	5.77	84	401668	5.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	115.40%
36) 1,2-Dichloropropane-d6	6.74	67	137392	6.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	124.20%
41) Toluene-d8	7.93	98	324893	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.22	79	46871	4.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.40%
46) 2-Hexanone-d5	8.69	63	181477	38.35	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	76.70%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	106823	5.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	110389	5.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	139902	5.041	ug/L	96
12) 1,1-Dichloroethene	2.61	96	3953	0.192	ug/L #	1
13) Acetone	2.67	43	18670	4.786	ug/L	95
14) Carbon disulfide	2.82	76	41157	0.633	ug/L	97
16) Methylene chloride	3.08	84	2197	0.089	ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	235072	10.593	ug/L	95
19) 1,1-Dichloroethane	3.92	63	4742	0.118	ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	17888542	729.333	ug/L	80
25) Chloroform	5.14	83	19821	0.450	ug/L	99
33) Benzene	5.82	78	48137	0.537	ug/L	100
34) Trichloroethene	6.58	95	20914	0.868	ug/L	95
35) Methylcyclohexane	6.74	83	31996	0.795	ug/L #	19
37) 1,2-Dichloropropane	6.74	63	14697	0.646	ug/L #	87
42) Toluene	8.01	91	209753	2.121	ug/L	99
48) 2-Hexanone	8.74	43	10066	0.935	ug/L #	89
59) 1,2,3-Trichloropropane	11.84	75	14026	0.885	ug/L	92
69) Naphthalene	14.11	128	5088	0.246	ug/L	97

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 06:48:58 2019
Response via : Initial Calibration

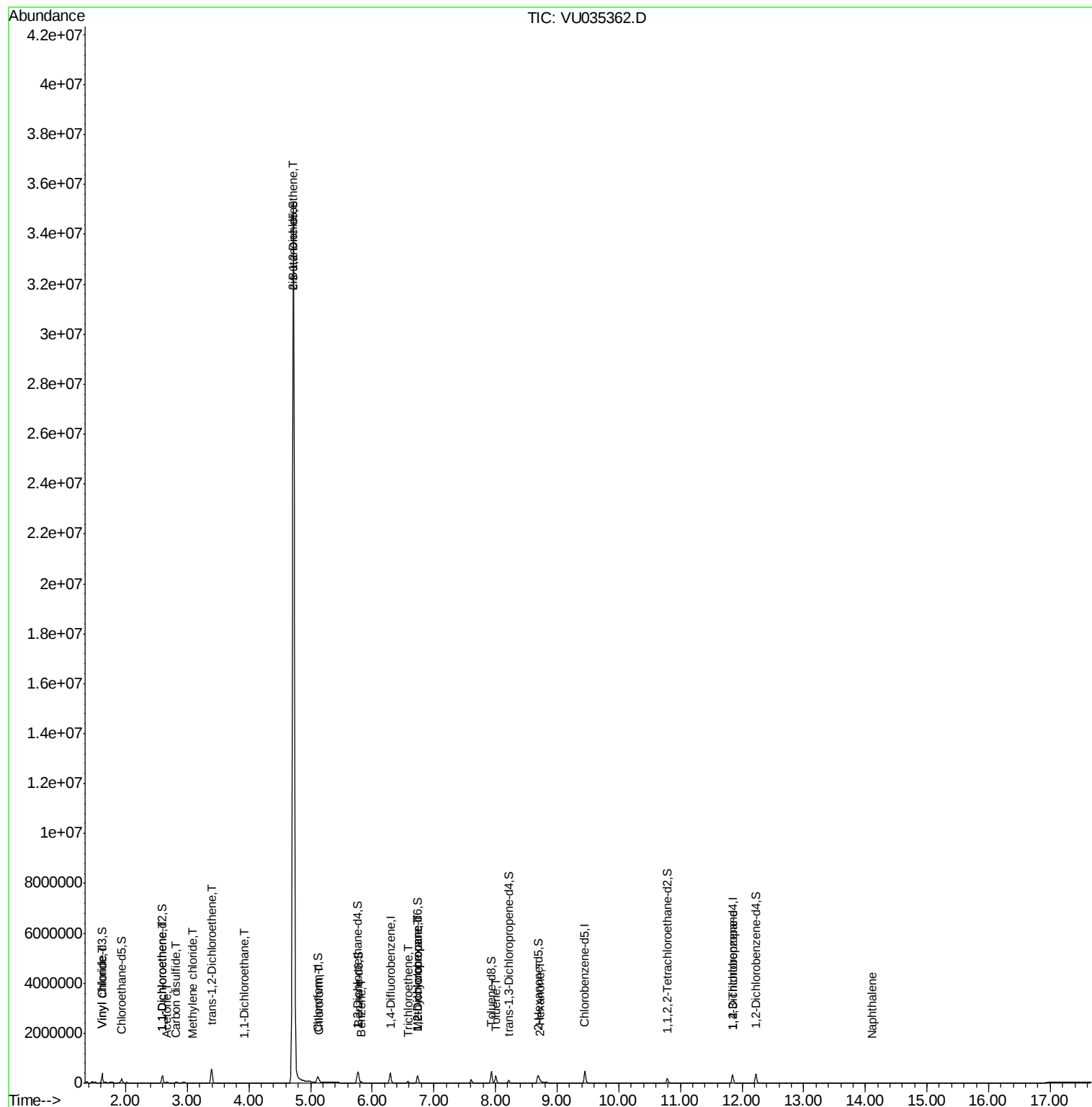
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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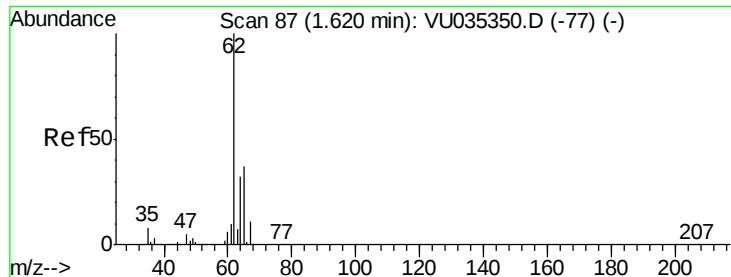
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 5.041 ug/L

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

Instrument :

MSVOA_U

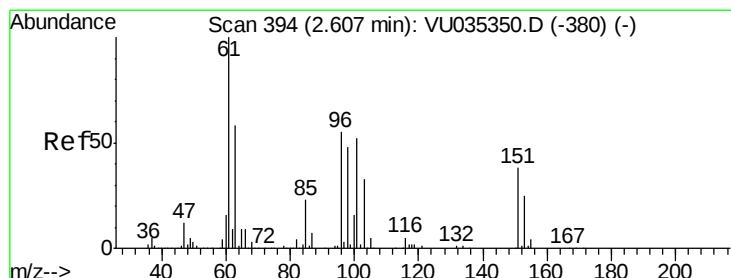
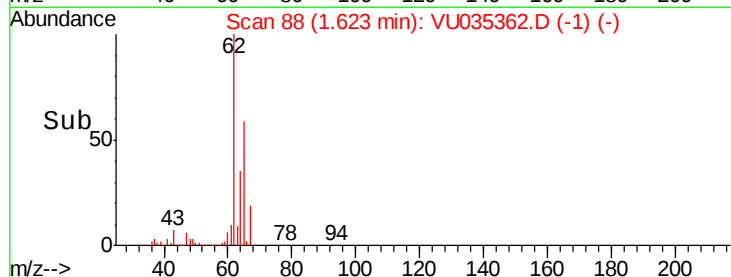
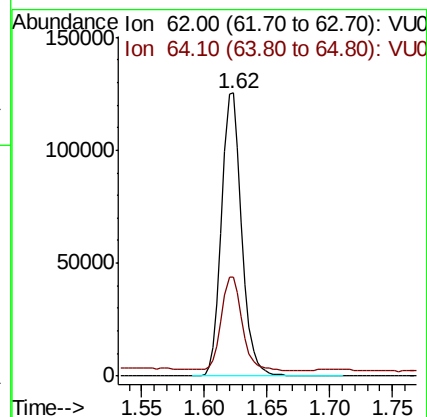
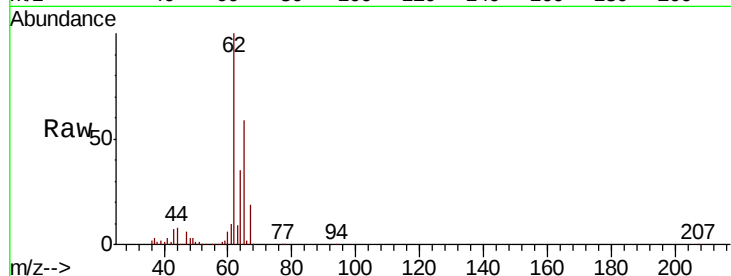
ClientSampled :

Tot Ion: 62 Resp: 139902

Ion Ratio Lower Upper

62 100

64 35.2 22.9 42.5



#12

1,1-Dichloroethene

Concen: 0.192 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

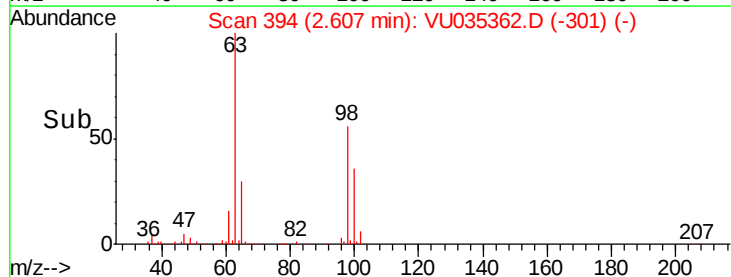
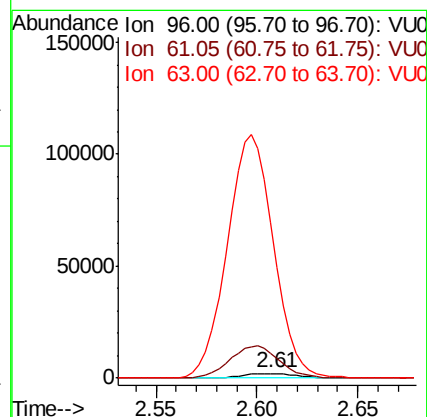
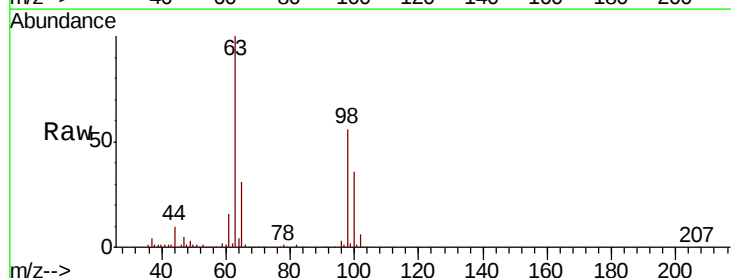
Tgt Ion: 96 Resp: 3953

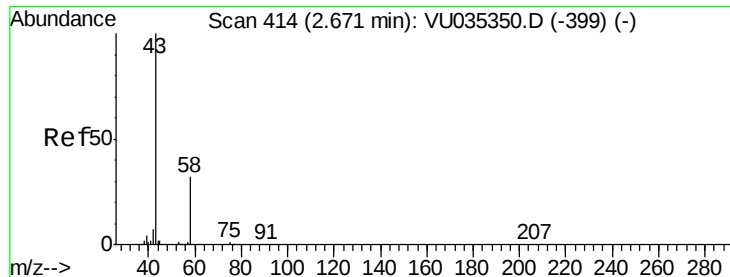
Ion Ratio Lower Upper

96 100

61 558.4 120.6 224.0#

63 3453.7 86.8 161.2#





#13

Acetone

Concen: 4.786 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

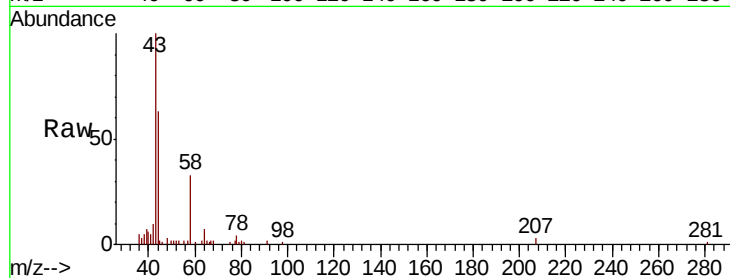
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 18670

Ion Ratio Lower Upper

43 100

58 33.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VU035350.D (-399) (-)

Ion 58.05 (57.75 to 58.75): VU035350.D (-399) (-)

2.67

12000

10000

8000

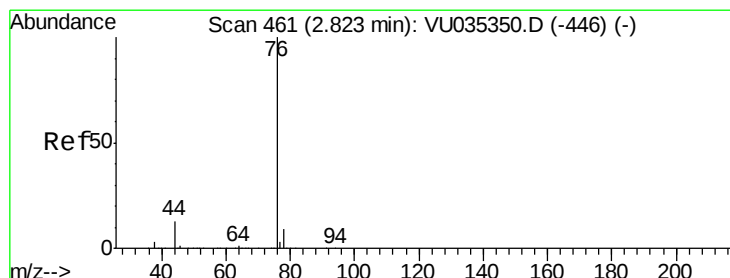
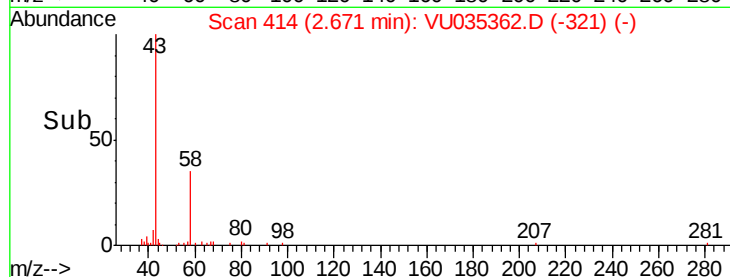
6000

4000

2000

0

Time-->



#14

Carbon disulfide

Concen: 0.633 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU035362.D

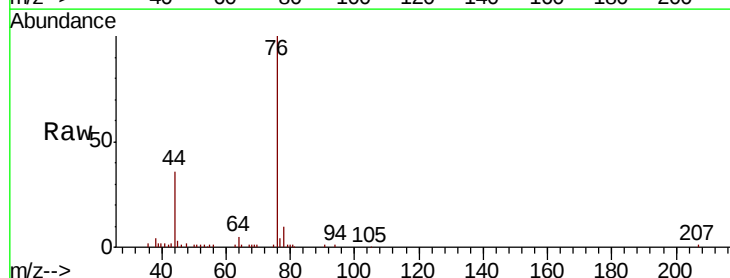
Acq: 22 Oct 2019 14:00

Tgt Ion: 76 Resp: 41157

Ion Ratio Lower Upper

76 100

78 10.4 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VU035350.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU035350.D (-446) (-)

2.82

25000

20000

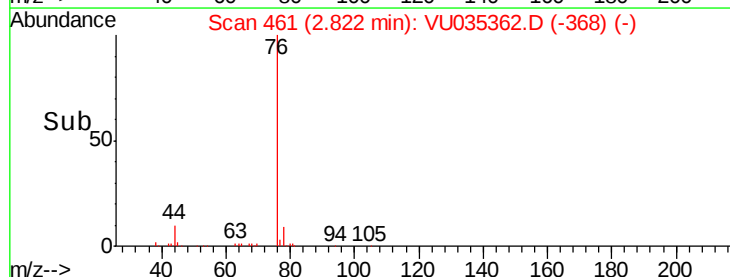
15000

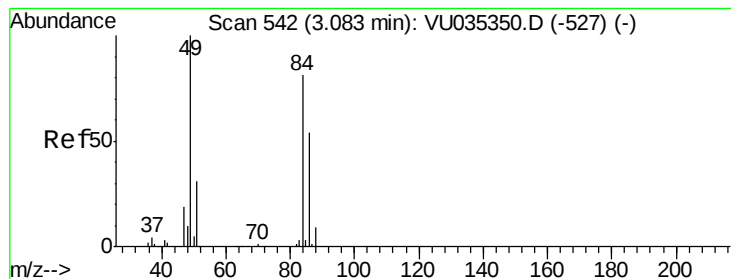
10000

5000

0

Time-->





#16

Methvlene chloride

Concen: 0.089 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

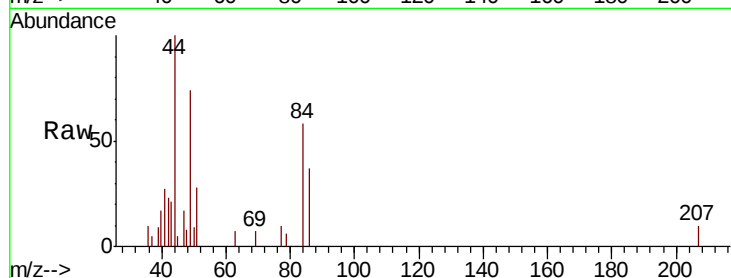
Tot Ion: 84 Resp: 2197

Ion Ratio Lower Upper

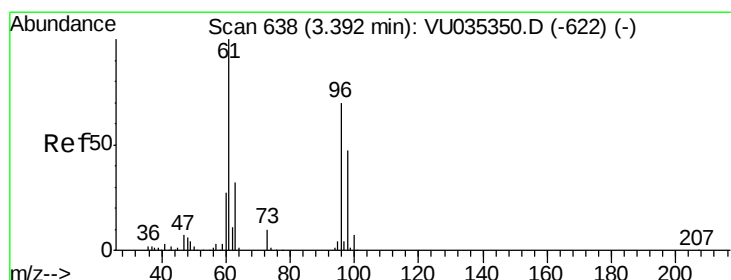
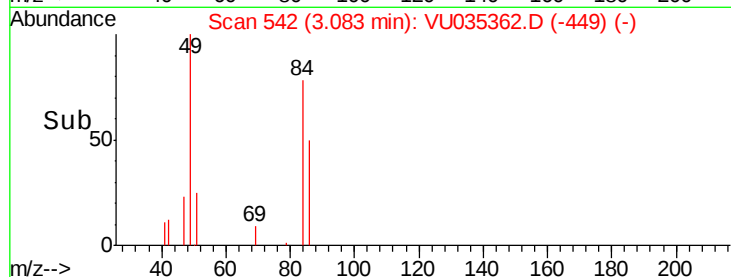
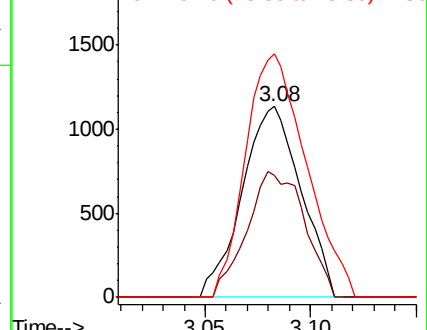
84 100

86 64.1 45.4 84.2

49 127.7 86.8 161.2



Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0



#18

trans-1,2-Dichloroethene

Concen: 10.593 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

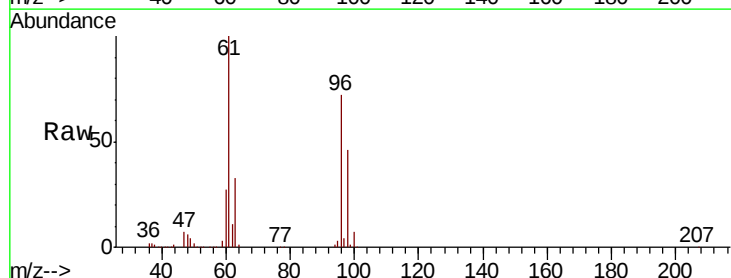
Tgt Ion: 96 Resp: 235072

Ion Ratio Lower Upper

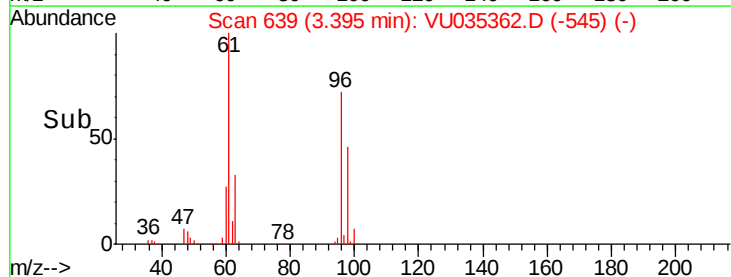
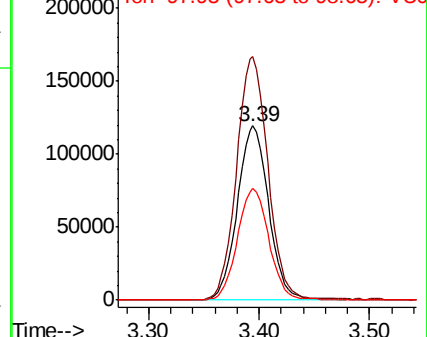
96 100

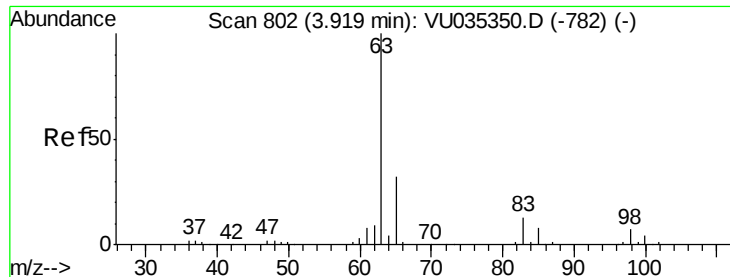
61 139.7 93.0 172.6

98 63.9 43.7 81.1



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.118 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

Instrument :
MSVOA_U
ClientSampled :

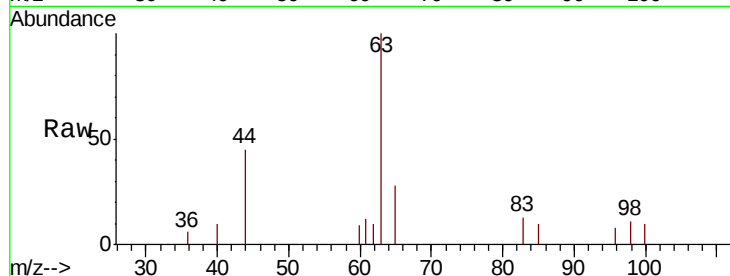
Tot Ion: 63 Resp: 4742

Ion Ratio Lower Upper

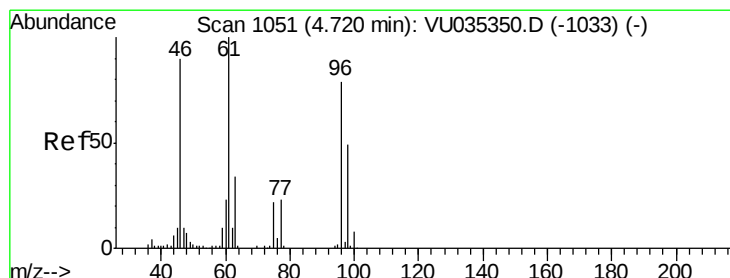
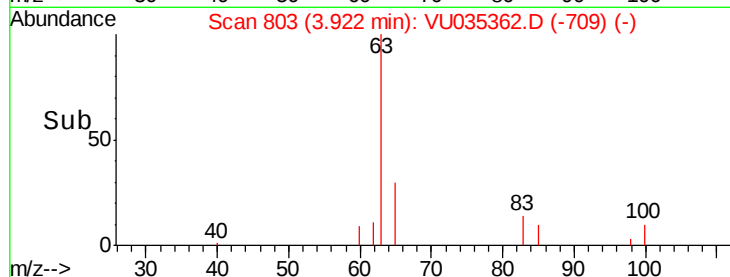
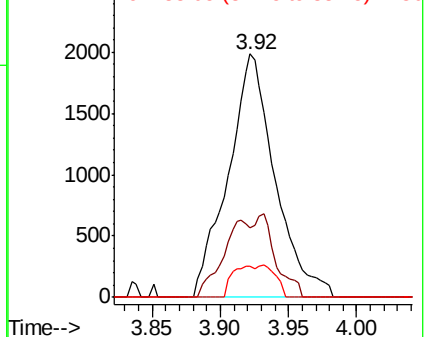
63 100

65 28.3 22.4 41.6

83 12.9 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 65.10 (64.80 to 65.80): VU0
Ion 83.05 (82.75 to 83.75): VU0



#22

cis-1,2-Dichloroethene

Concen: 729.333 ug/L

RT: 4.72 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

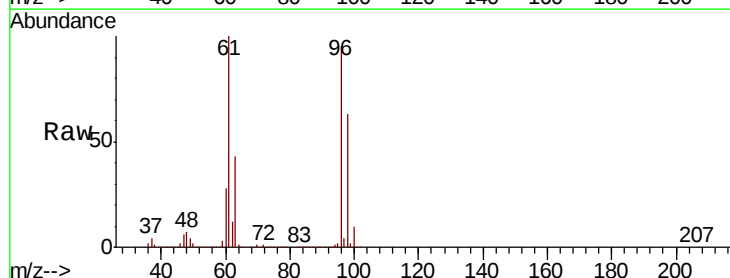
Tgt Ion: 96 Resp:17888542

Ion Ratio Lower Upper

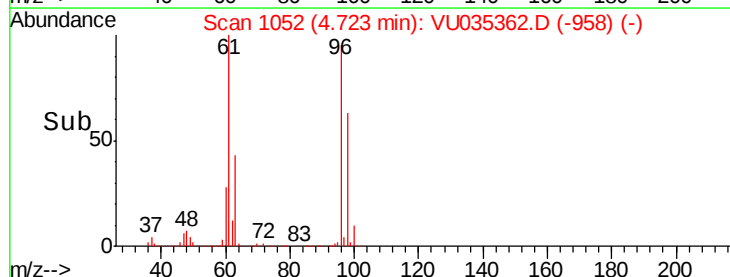
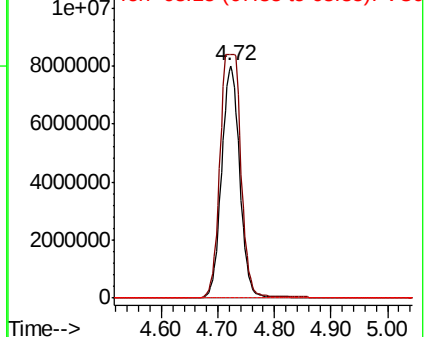
96 100

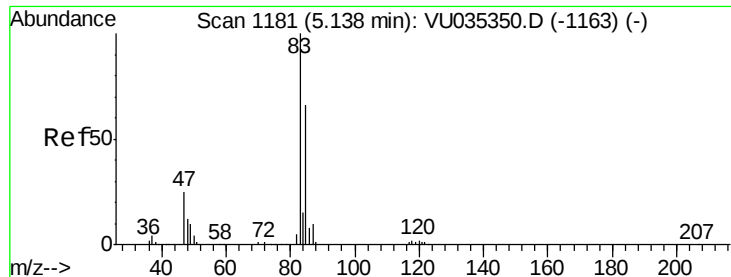
61 104.8 89.7 166.5

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

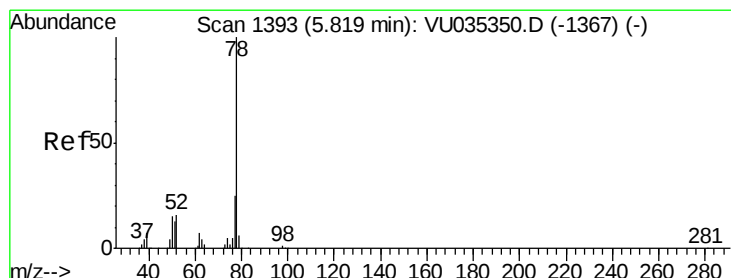
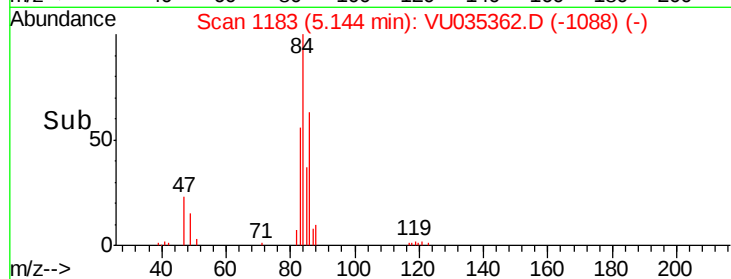
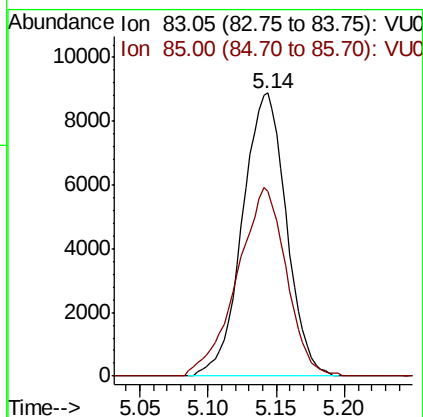
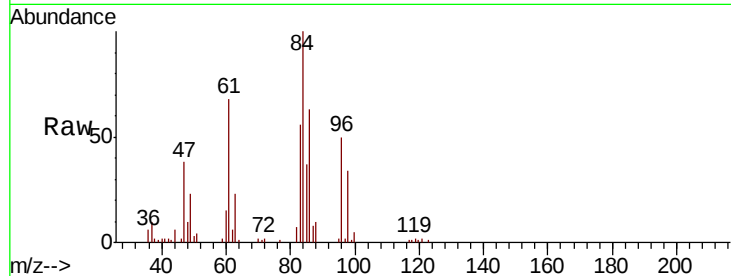




#25
Chloroform
Concen: 0.450 ug/L
RT: 5.14 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VU035362.D
Acq: 22 Oct 2019 14:00

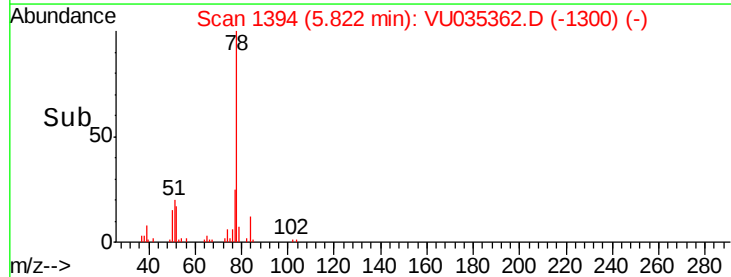
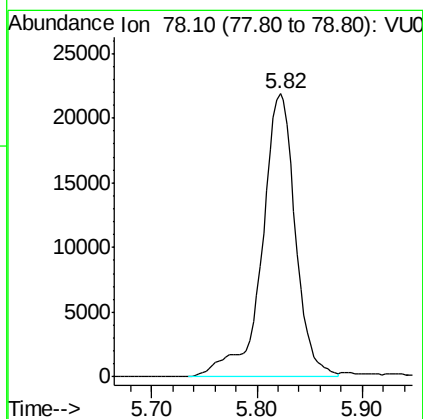
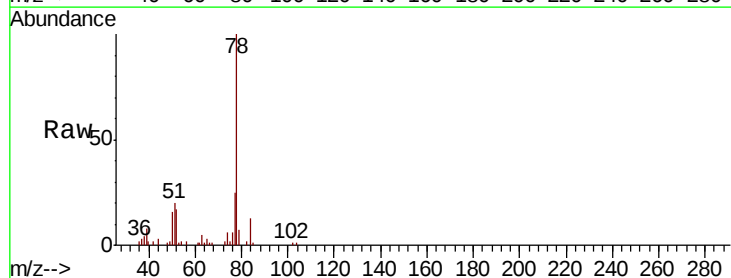
Instrument :
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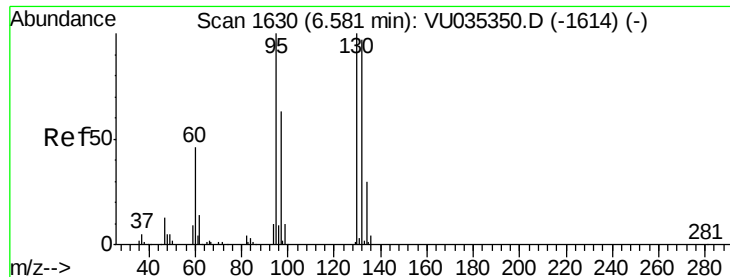
Tot Ion: 83 Resp: 19821
Ion Ratio Lower Upper
83 100
85 65.5 45.1 83.9



#33
Benzene
Concen: 0.537 ug/L
RT: 5.82 min Scan# 1394
Delta R.T. 0.00 min
Lab File: VU035362.D
Acq: 22 Oct 2019 14:00

Tgt Ion: 78 Resp: 48137





#34

Trichloroethene

Concen: 0.868 ug/L

RT: 6.58 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 20914

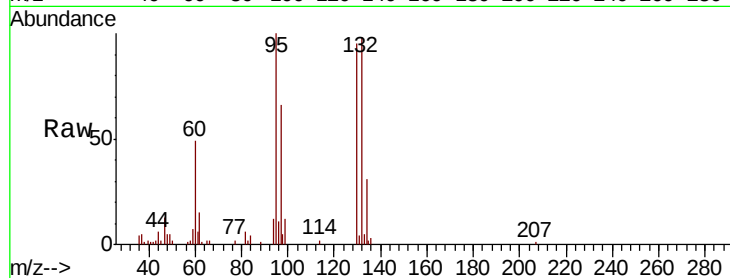
Ion Ratio Lower Upper

95 100

97 66.1 46.6 86.6

132 97.6 68.7 127.7

130 94.6 73.9 137.3

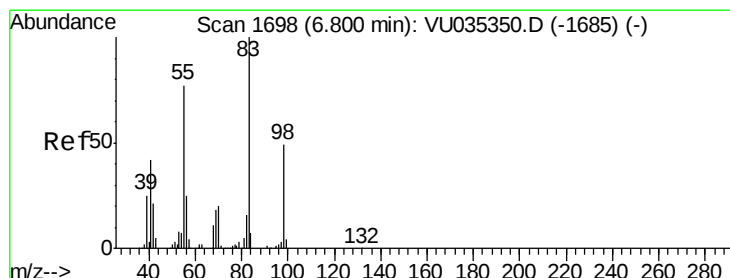
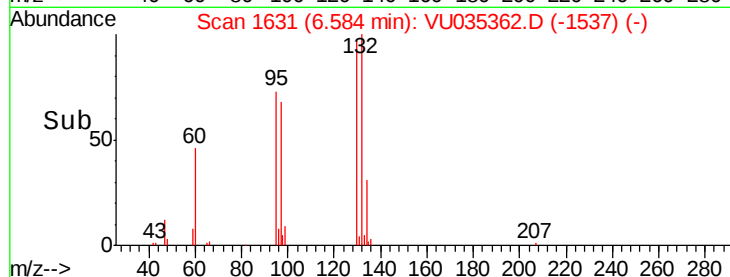
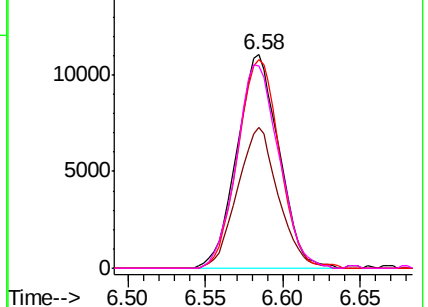


Abundance Ion 95.00 (94.70 to 95.70): VU0

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



#35

Methylcyclohexane

Concen: 0.795 ug/L

RT: 6.74 min Scan# 1678

Delta R.T. -0.06 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

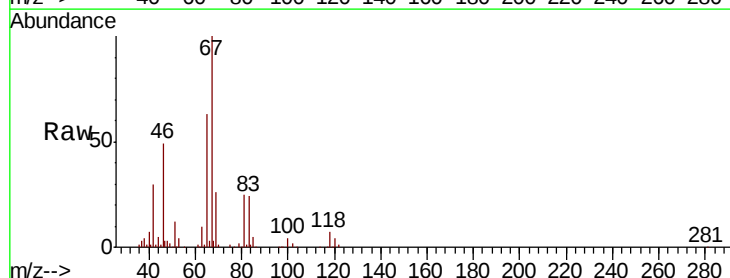
Tgt Ion: 83 Resp: 31996

Ion Ratio Lower Upper

83 100

55 0.5 60.4 90.6#

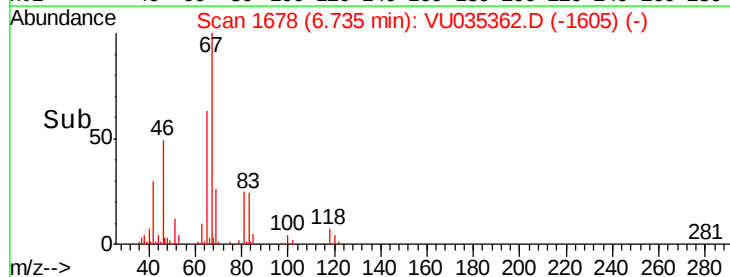
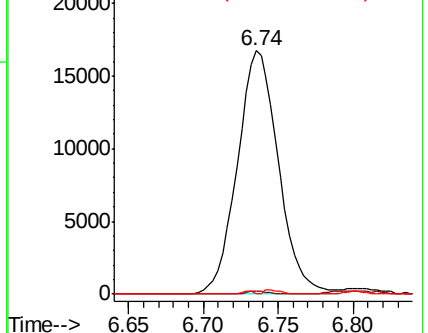
98 0.3 39.5 59.3#

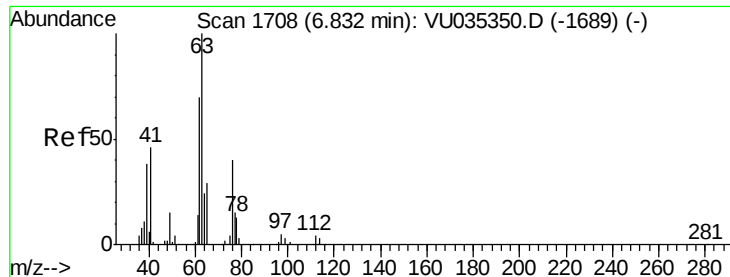


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

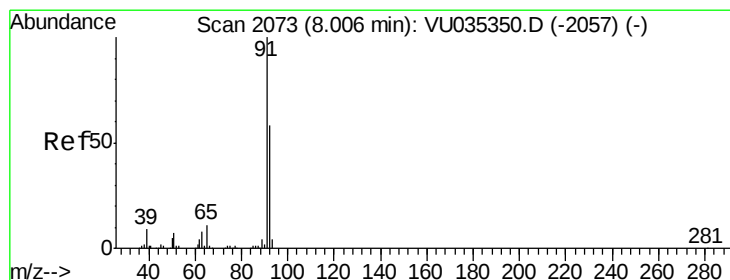
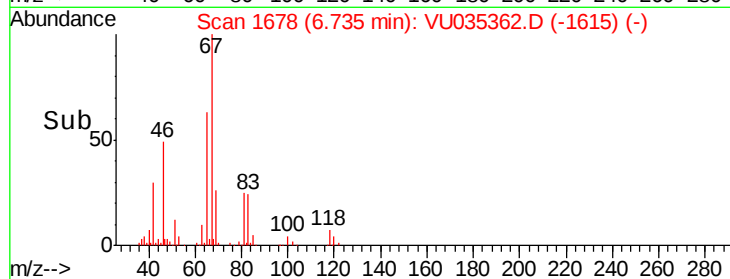
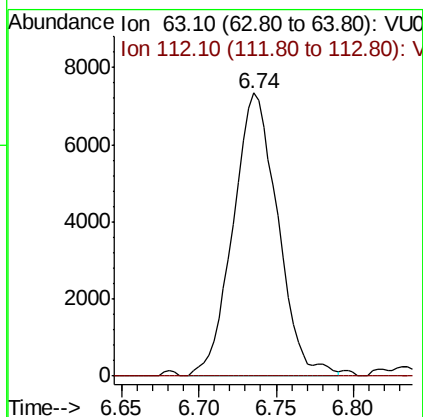
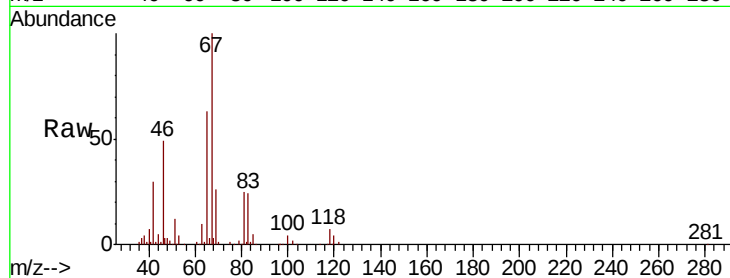




#37
 1,2-Dichloropropane
 Concen: 0.646 ug/L
 RT: 6.74 min Scan# 1678
 Delta R.T. -0.10 min
 Lab File: VU035362.D
 Acq: 22 Oct 2019 14:00

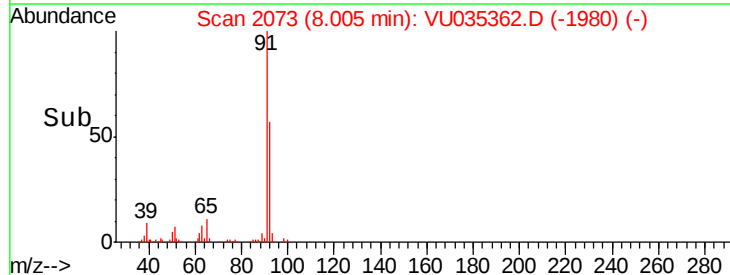
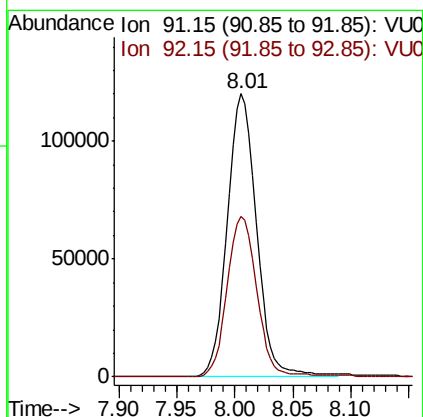
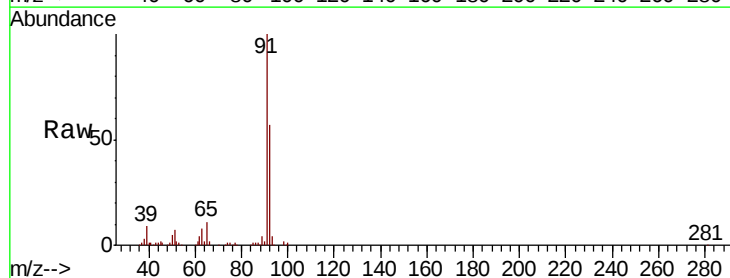
Instrument :
 MSVOA_U
 ClientSampleId :

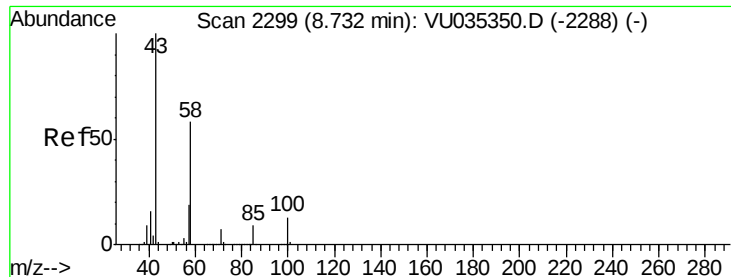
Tot Ion: 63 Resp: 14697
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.7 5.5#



#42
 Toluene
 Concen: 2.121 ug/L
 RT: 8.01 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VU035362.D
 Acq: 22 Oct 2019 14:00

Tgt Ion: 91 Resp: 209753
 Ion Ratio Lower Upper
 91 100
 92 56.5 39.9 74.1

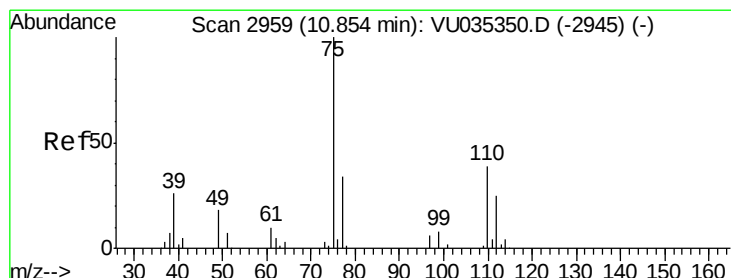
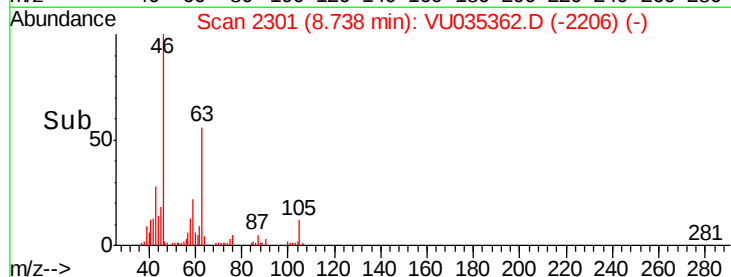
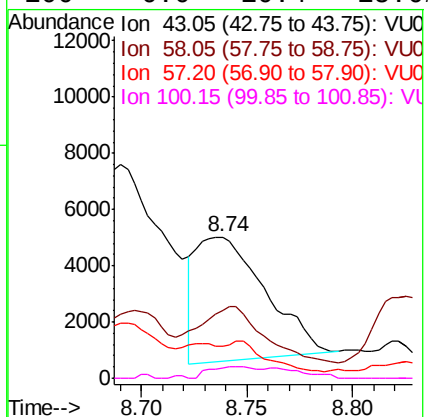
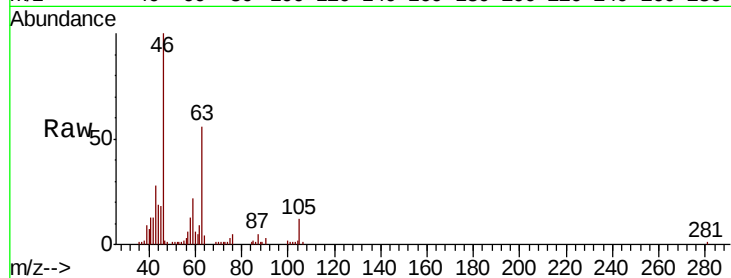




#48
2-Hexanone
Concen: 0.935 ug/L
RT: 8.74 min Scan# 2301
Delta R.T. 0.01 min
Lab File: VU035362.D
Acq: 22 Oct 2019 14:00

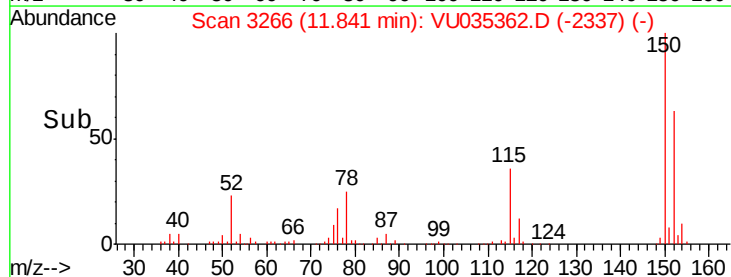
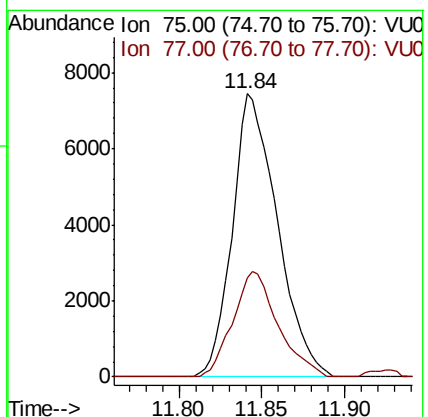
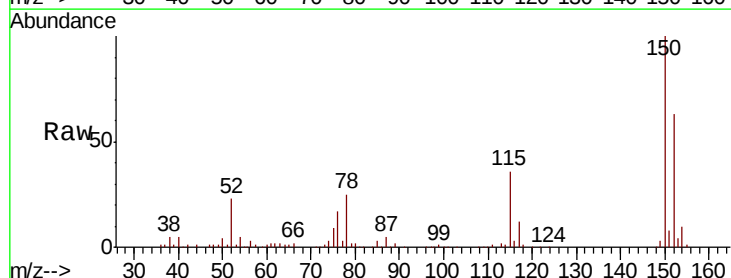
Instrument :
MSVOA_U
ClientSampled :

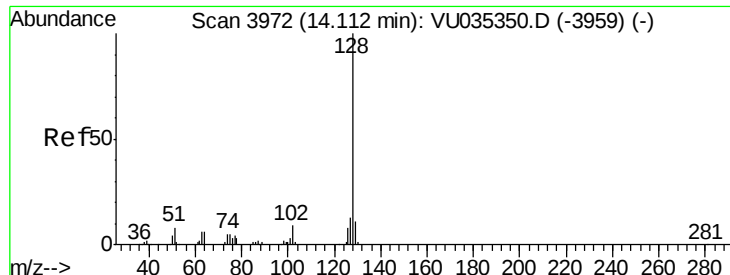
Tot Ion: 43 Resp: 10066
Ion Ratio Lower Upper
43 100
58 65.6 45.1 67.7
57 18.0 16.0 24.0
100 6.0 10.4 15.6#



#59
1,2,3-Trichloropropane
Concen: 0.885 ug/L
RT: 11.84 min Scan# 3266
Delta R.T. 0.99 min
Lab File: VU035362.D
Acq: 22 Oct 2019 14:00

Tgt Ion: 75 Resp: 14026
Ion Ratio Lower Upper
75 100
77 37.3 26.2 39.2





#69

Naphthalene

Concen: 0.246 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU035362.D

Acq: 22 Oct 2019 14:00

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:128 Resp: 5088

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

127 15.2 10.7 16.1

