

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU042420\
 Data File : VU037869.D
 Acq On : 24 Apr 2020 14:31
 Operator : JC/MD
 Sample : L2395-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 25 01:15:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Apr 25 01:13:34 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	372858	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	366545	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	151968	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.70	65	227	0.07	ug/L	0.08
Spiked Amount	50.000	Range	60 - 135	Recovery	=	0.14%#
7) Chloroethane-d5	1.93	69	144044	57.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	114.10%
11) 1,1-Dichloroethene-d2	2.61	63	4129213	783.06	ug/L	0.01
Spiked Amount	50.000	Range	60 - 125	Recovery	=	1566.12%#
21) 2-Butanone-d5	4.80	46	142	0.06	ug/L	0.14
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.06%#
24) Chloroform-d	5.11	84	287232	57.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	115.76%
26) 1,2-Dichloroethane-d4	5.74	65	202964	59.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	118.14%
32) Benzene-d6	5.76	84	616730	59.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	119.00%
36) 1,2-Dichloropropane-d6	6.72	67	208205	60.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	120.10%#
41) Toluene-d8	7.92	98	573158	60.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	120.32%#
43) trans-1,3-Dichloropropene-	8.20	79	110722	62.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	124.10%
47) 2-Hexanone-d5	8.65	63	229552	121.63	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	121.63%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	224271	46.49	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.98%
64) 1,2-Dichlorobenzene-d4	12.20	152	169346	57.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	114.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	16662	7.270	ug/L #	31
12) 1,1-Dichloroethene	2.61	96	6643596	2934.886	ug/L #	68
13) Acetone	2.66	43	37148	24.121	ug/L	94
15) Methyl Acetate	2.98	43	3203	0.860	ug/L #	75
16) Methylene chloride	3.08	84	11135	4.140	ug/L	85
17) trans-1,2-Dichloroethene	3.39	96	809847	319.966	ug/L	97
19) 1,1-Dichloroethane	3.92	63	3887543	761.962	ug/L	100
25) Chloroform	5.13	83	11895	2.492	ug/L	99
27) 1,2-Dichloroethane	5.83	62	110436	27.010	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	4718166	1152.599	ug/L	99
33) Benzene	5.81	78	29511	2.653	ug/L	100
34) Trichloroethene	6.57	95	534495	195.862	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	24624	4.660	ug/L	99
42) Toluene	7.99	91	351797	30.160	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	207003	78.092	ug/L	99
52) Ethylbenzene	9.59	91	642453	49.183	ug/L	99
53) m,p-Xylene	9.71	106	1095764	222.801	ug/L	100

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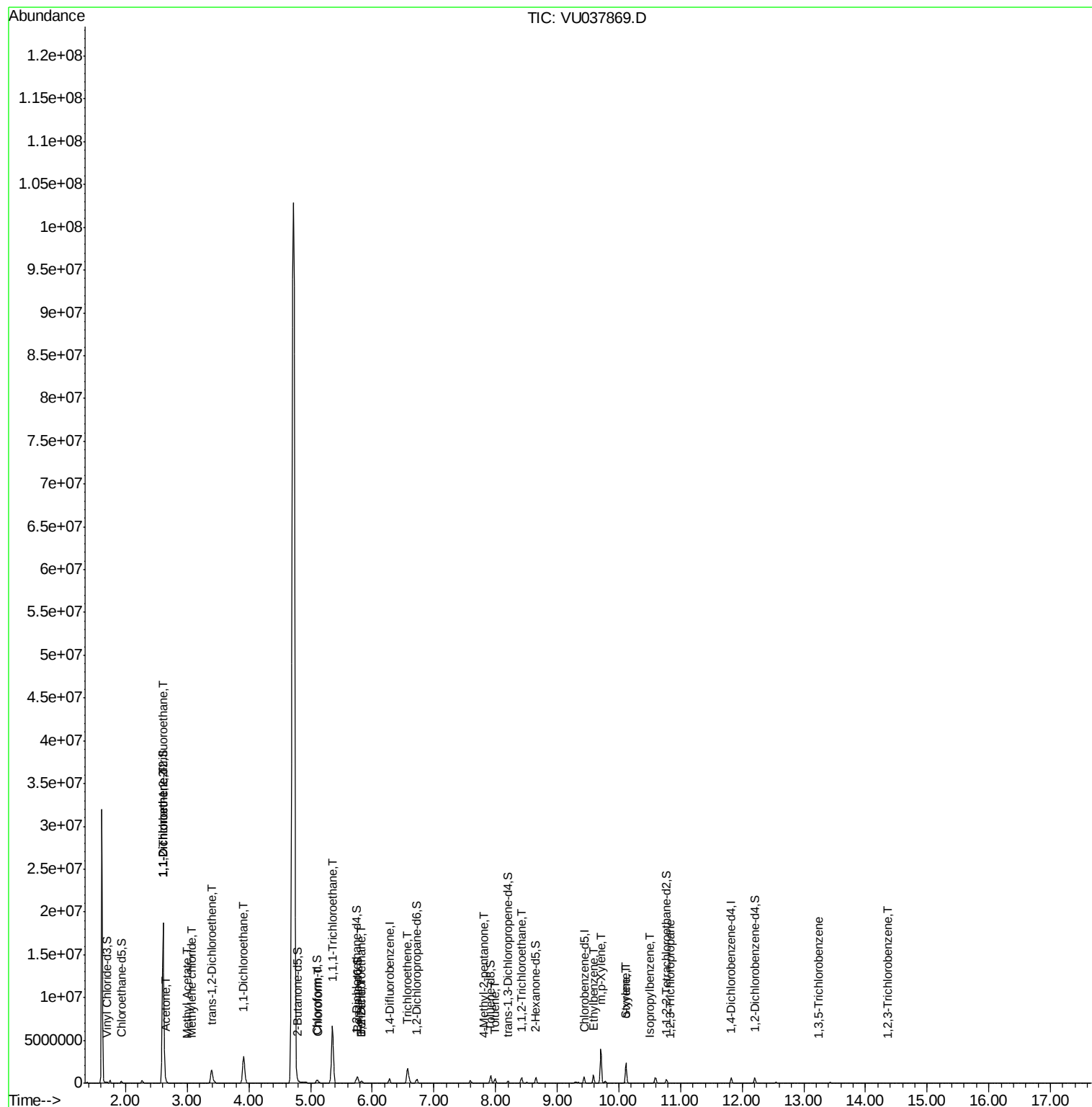
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-xylene	10.12	106	602356	125.231	uq/L	97
55) Styrene	10.12	104	31193	3.771	uq/L #	1
56) Isopropylbenzene	10.50	105	20466	1.608	uq/L	98
59) 1,2,3-Trichloropropane	10.84	75	7085	1.736	uq/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	3644	1.054	uq/L	95
70) 1,2,3-Trichlorobenzene	14.36	180	3664	1.103	uq/L #	61

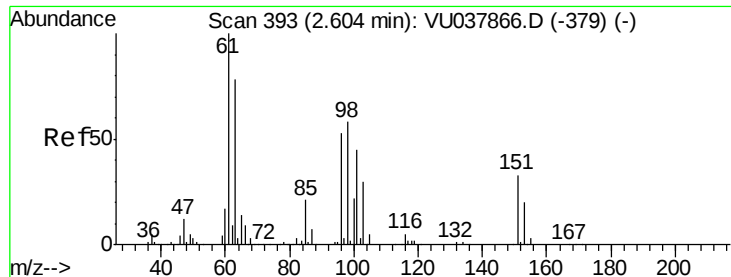
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Apr 25 01:13:34 2020
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#10

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

Concen: 7.270 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampleId :

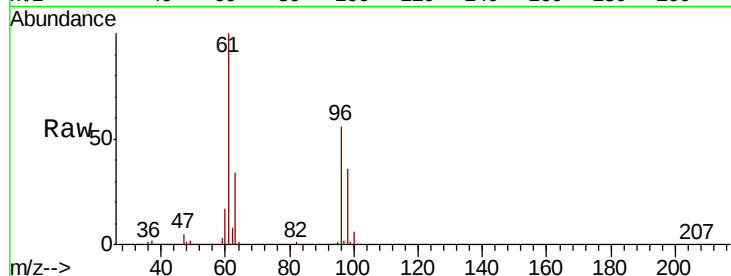
Tot Ion:101 Resp: 16662

Ion Ratio Lower Upper

101 100

85 16.9 36.2 54.4#

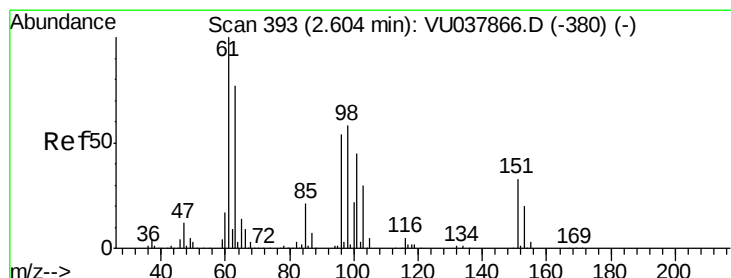
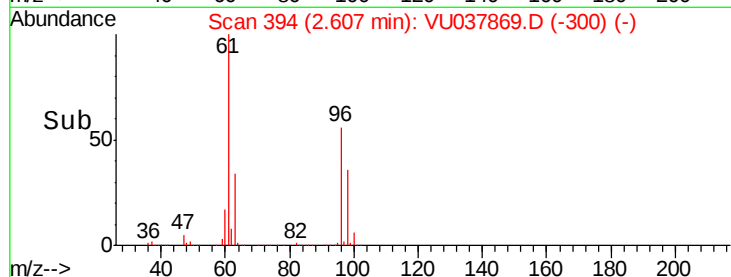
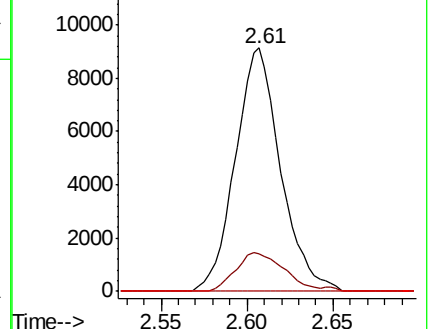
151 0.0 55.5 83.3#



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: 2934.886 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

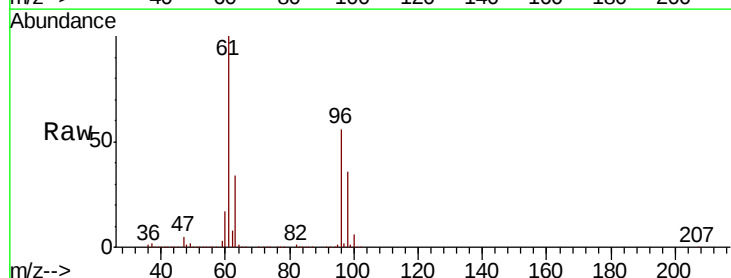
Tgt Ion: 96 Resp: 6643596

Ion Ratio Lower Upper

96 100

61 179.3 134.1 249.0

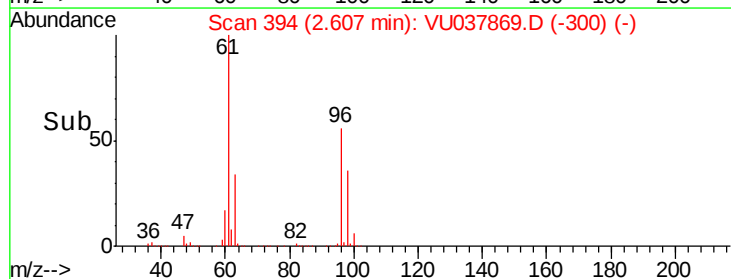
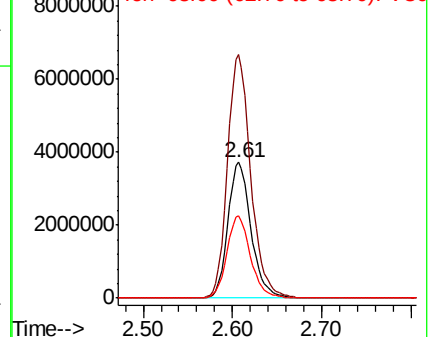
63 60.3 96.5 179.1#

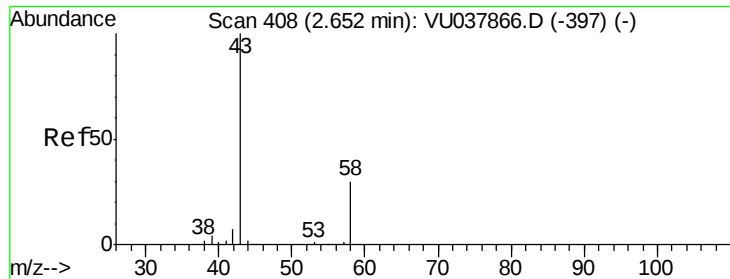


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 24.121 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

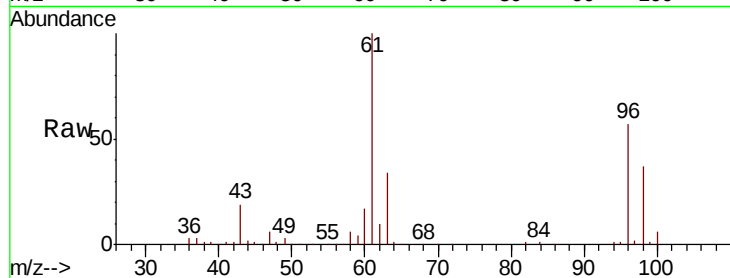
ClientSampleId :

Tot Ion: 43 Resp: 37148

Ion Ratio Lower Upper

43 100

58 34.1 0.0 62.0



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037866.D (-397) (-)

25000

20000

15000

10000

5000

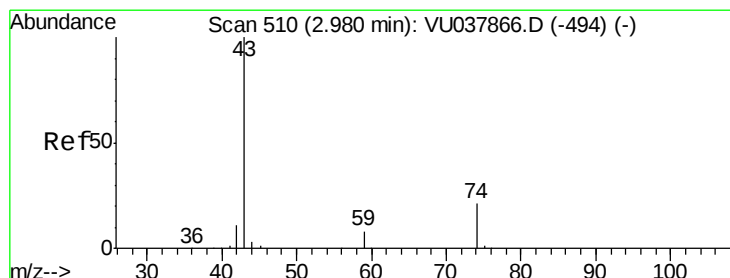
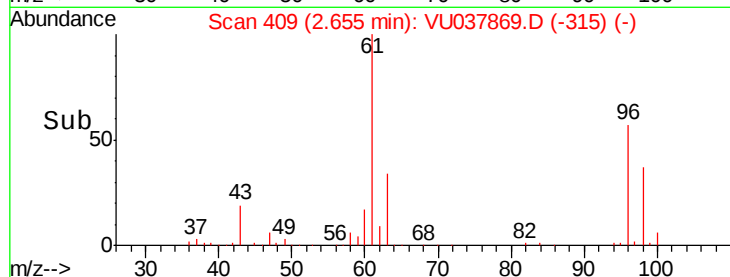
0

2.66

2.65

2.70

Time-->



#15

Methyl Acetate

Concen: 0.860 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU037869.D

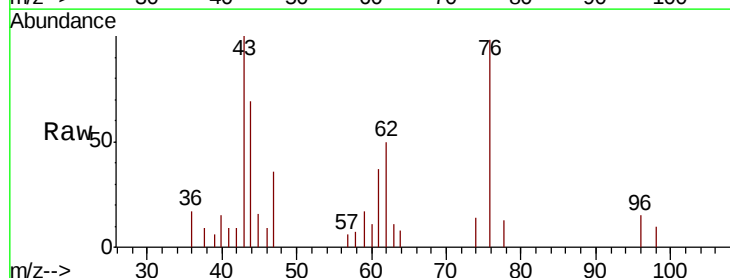
Acq: 24 Apr 2020 14:31

Tgt Ion: 43 Resp: 3203

Ion Ratio Lower Upper

43 100

74 9.3 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VU037866.D (-494) (-)

Ion 74.00 (73.70 to 74.70): VU037866.D (-494) (-)

2000

1500

1000

500

0

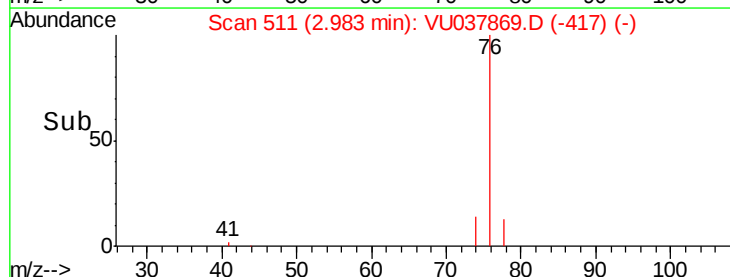
2.98

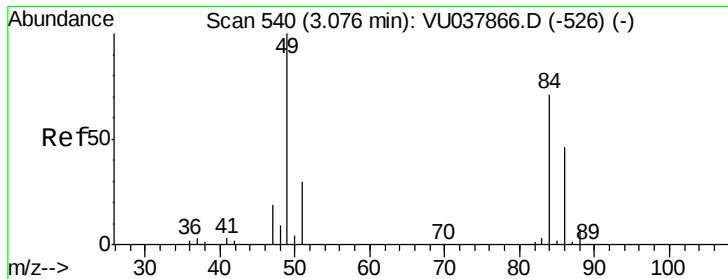
2.95

3.00

3.05

Time-->

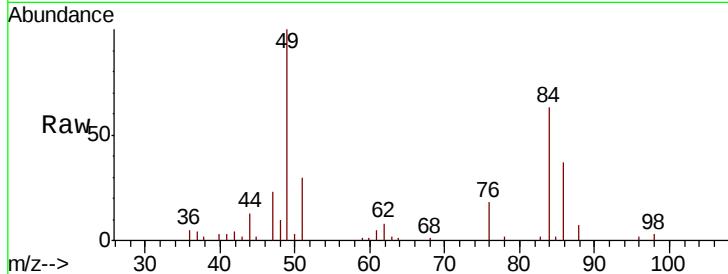




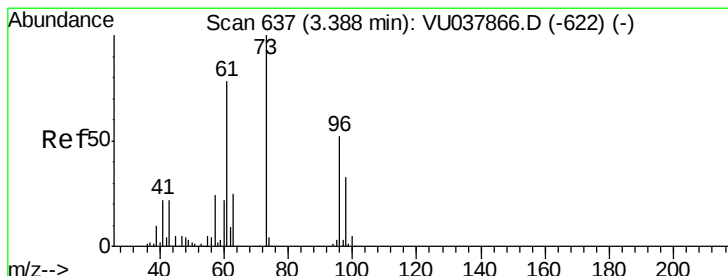
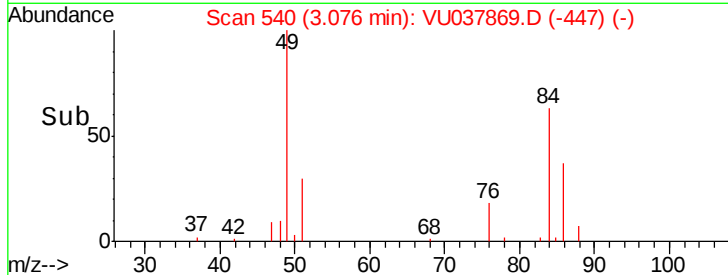
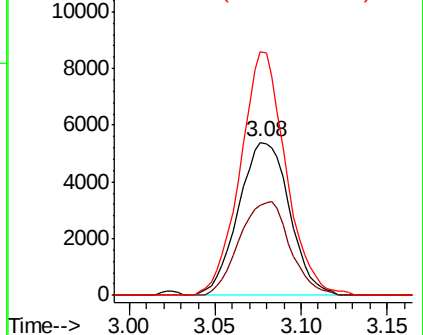
#16
Methylene chloride
Concen: 4.140 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 84 Resp: 11135
Ion Ratio Lower Upper
84 100
86 58.6 43.5 80.7
49 158.8 95.1 176.7

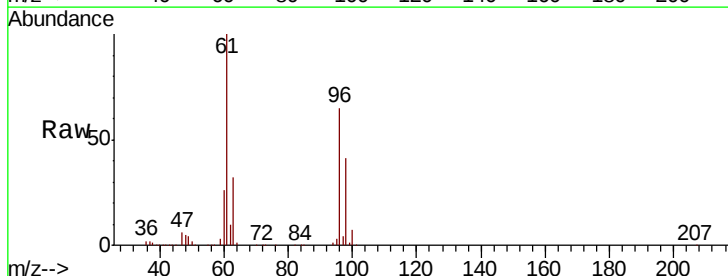


Abundance Ion 84.00 (83.70 to 84.70): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.00 (48.70 to 49.70): VU0

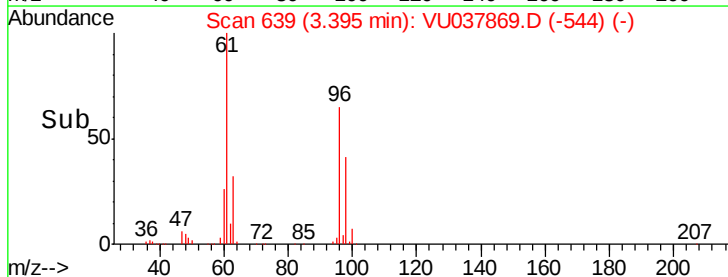
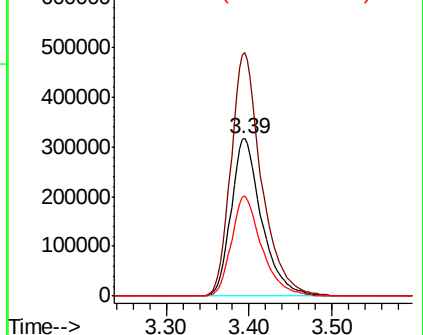


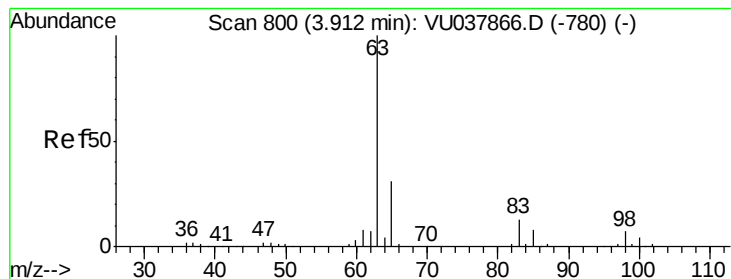
#17
trans-1,2-Dichloroethene
Concen: 319.966 ug/L
RT: 3.39 min Scan# 639
Delta R.T. 0.01 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion: 96 Resp: 809847
Ion Ratio Lower Upper
96 100
61 154.3 111.4 207.0
98 63.4 43.9 81.5



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





#19

1,1-Dichloroethane

Concen: 761.962 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Instrument :

MSVOA_U

ClientSampled :

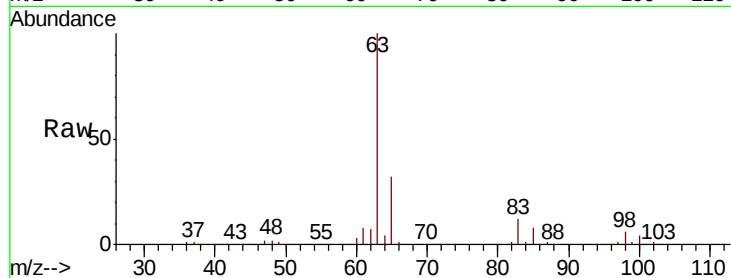
Tot Ion: 63 Resp: 3887543

Ion Ratio Lower Upper

63 100

65 31.7 22.2 41.2

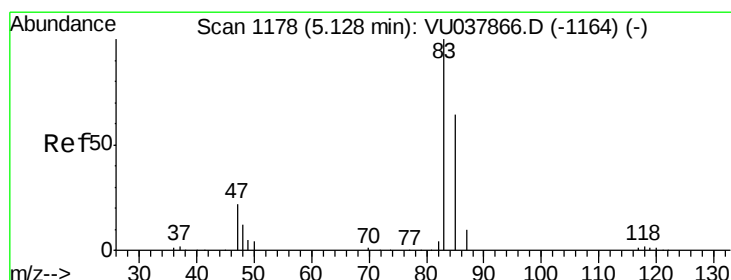
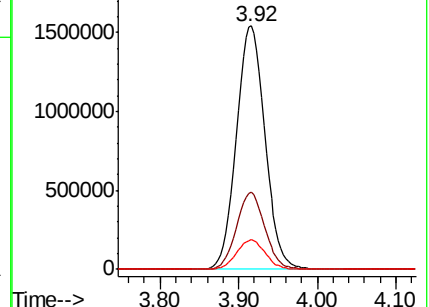
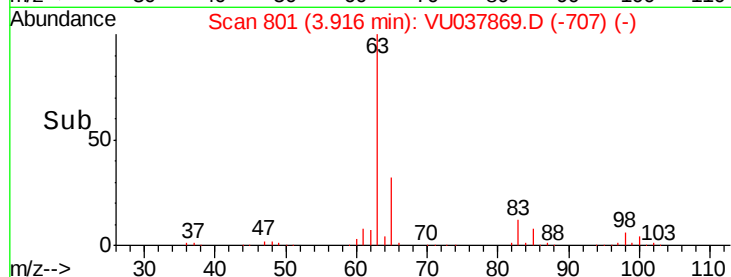
83 12.2 8.6 16.0



Abundance Ion 63.00 (62.70 to 63.70): VU037866.D (-780) (-)

Ion 65.00 (64.70 to 65.70): VU037866.D (-780) (-)

Ion 83.00 (82.70 to 83.70): VU037866.D (-780) (-)



#25

Chloroform

Concen: 2.492 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037869.D

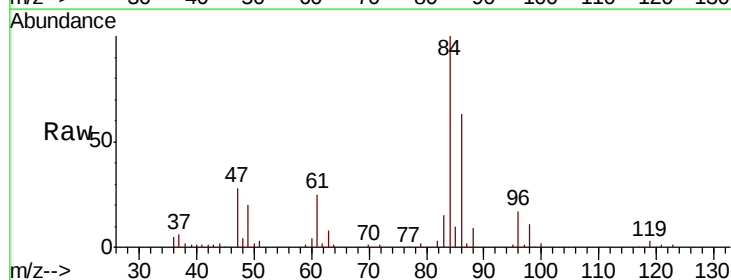
Acq: 24 Apr 2020 14:31

Tgt Ion: 83 Resp: 11895

Ion Ratio Lower Upper

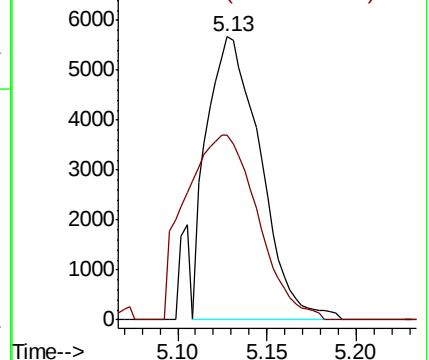
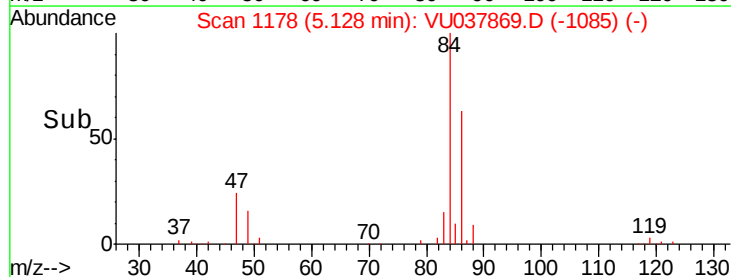
83 100

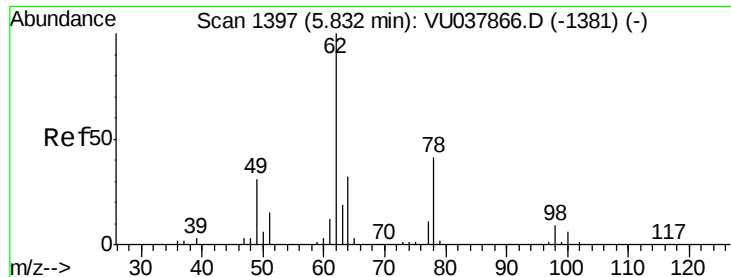
85 65.4 45.1 83.9



Abundance Ion 83.00 (82.70 to 83.70): VU037866.D (-1164) (-)

Ion 85.00 (84.70 to 85.70): VU037866.D (-1164) (-)

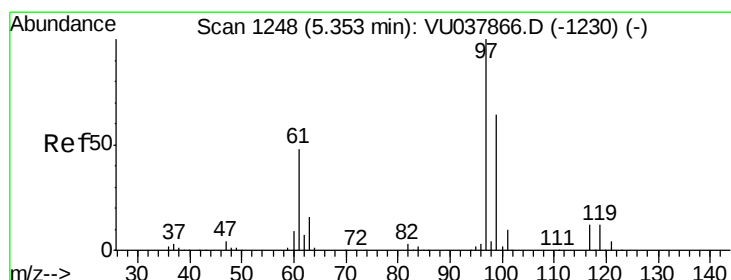
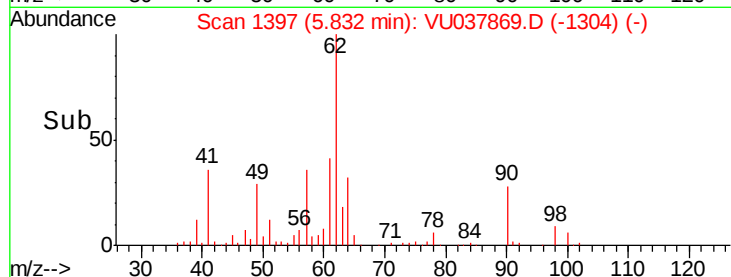
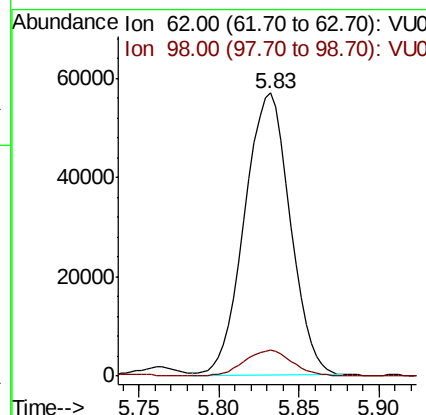
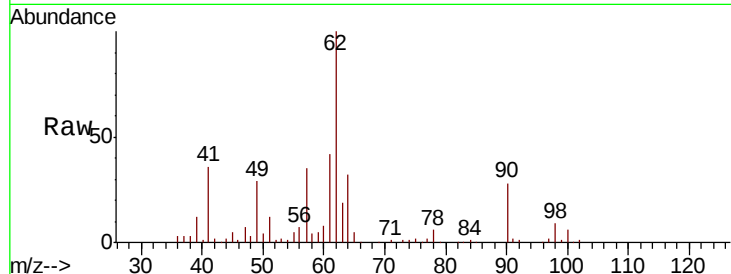




#27
 1,2-Dichloroethane
 Concen: 27.010 ug/L
 RT: 5.83 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

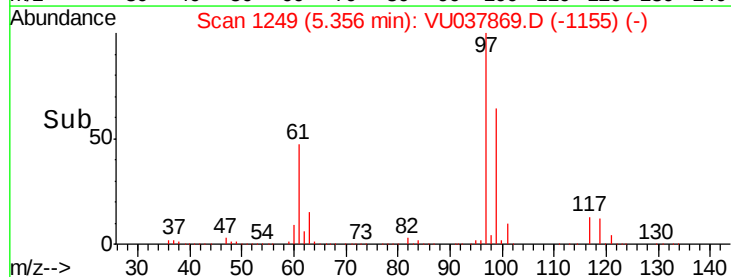
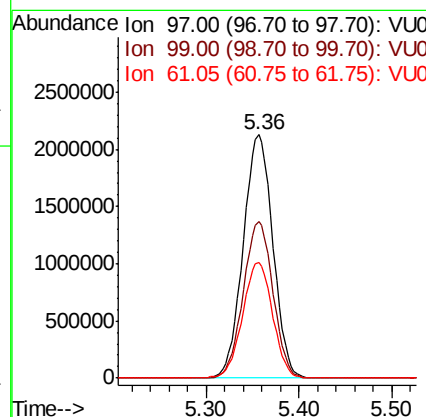
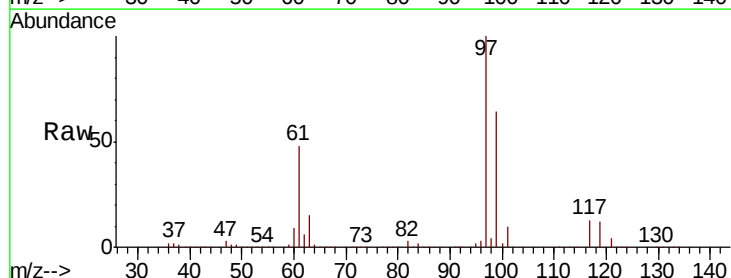
Instrument :
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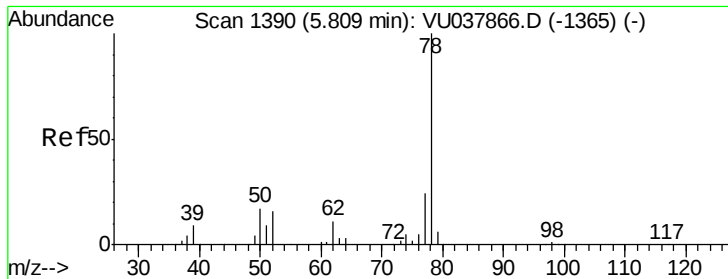
Tot Ion: 62 Resp: 110436
 Ion Ratio Lower Upper
 62 100
 98 9.1 7.3 10.9



#30
 1,1,1-Trichloroethane
 Concen: 1152.599 ug/L
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Tgt Ion: 97 Resp: 4718166
 Ion Ratio Lower Upper
 97 100
 99 64.3 50.7 76.1
 61 48.1 38.9 58.3





#33

Benzene

Concen: 2.653 ug/L

RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037869.D

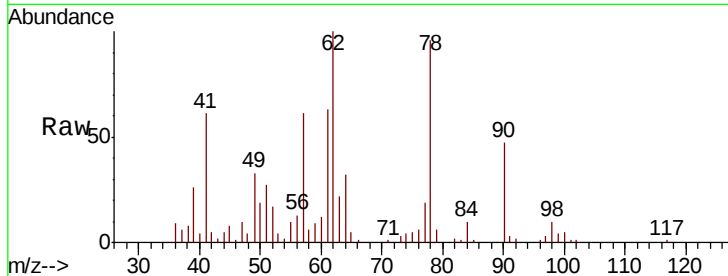
Acq: 24 Apr 2020 14:31

Instrument :

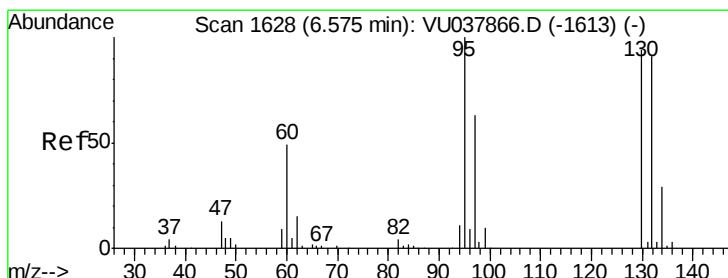
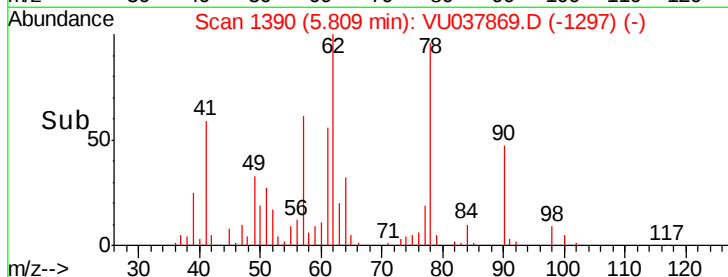
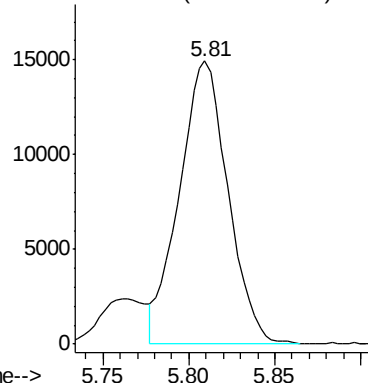
MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 29511



Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 195.862 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

Tgt Ion: 95 Resp: 534495

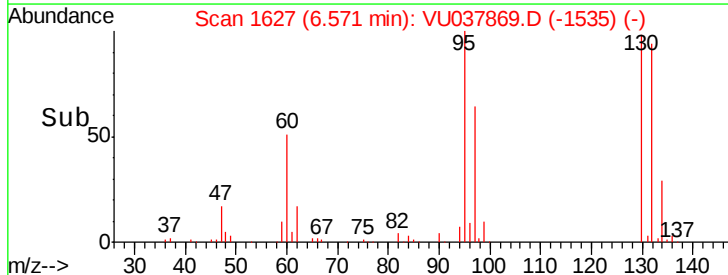
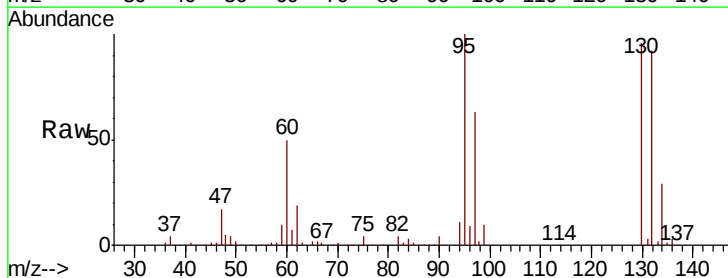
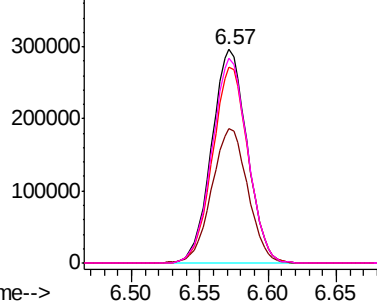
Ion	Ratio	Lower	Upper
95	100		
97	63.1	44.4	82.5
132	92.0	65.0	120.6
130	95.7	65.5	121.7

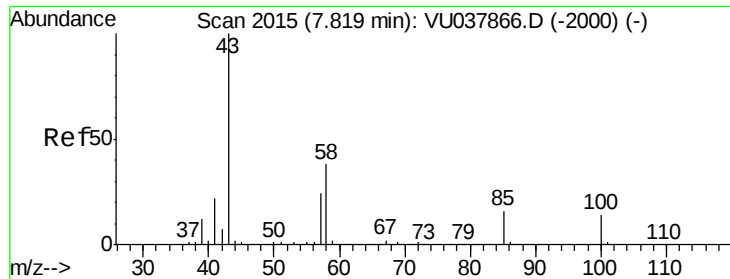
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

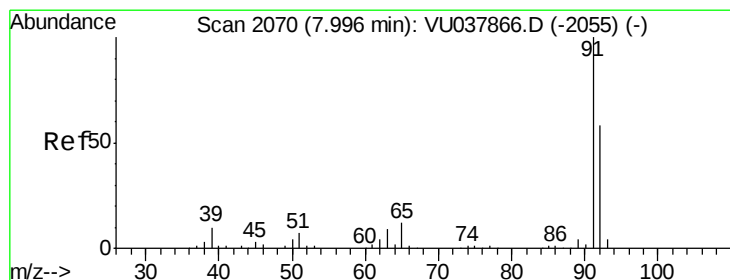
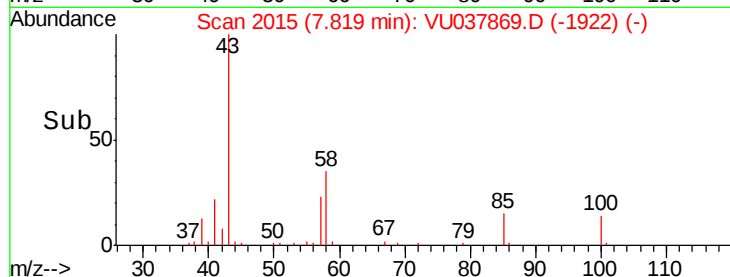
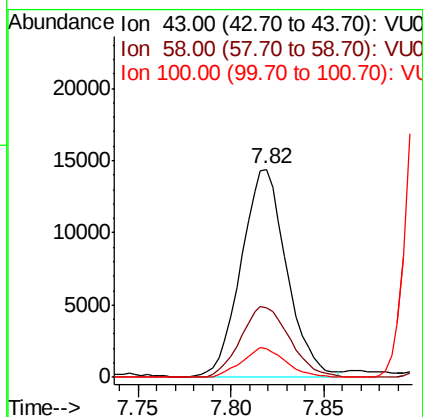
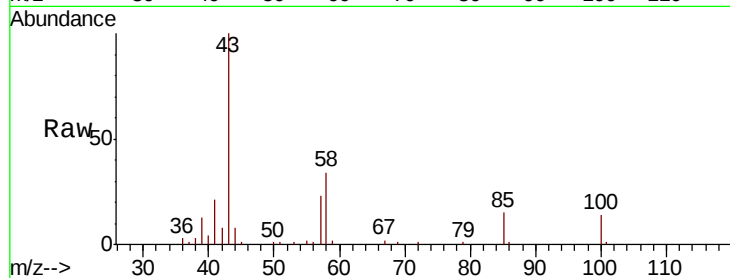




#40
4-Methyl-2-pentanone
Concen: 4.660 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

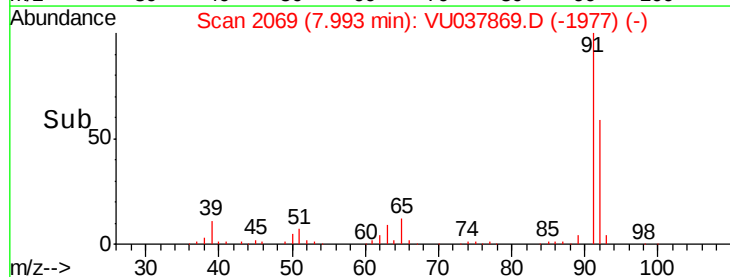
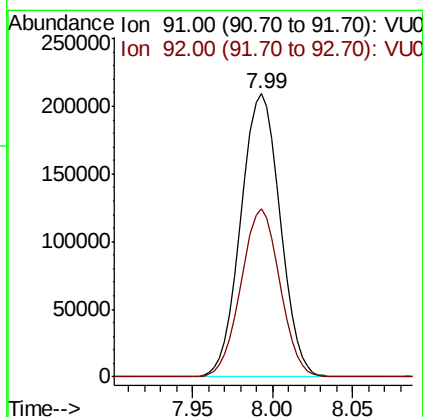
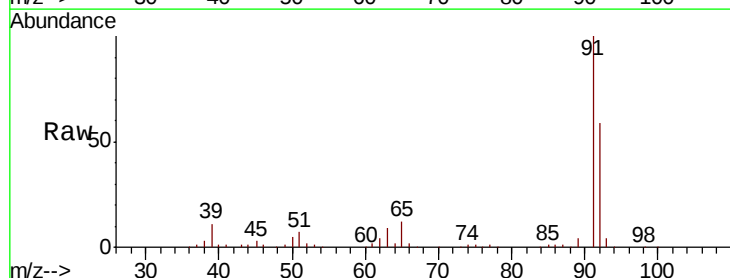
Instrument :
MSVOA_U
ClientSampleId :

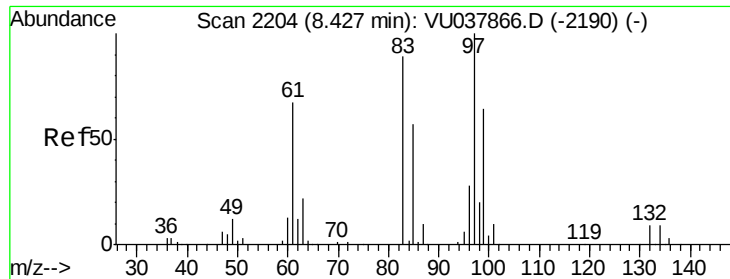
Tot Ion: 43 Resp: 24624
Ion Ratio Lower Upper
43 100
58 36.5 30.2 45.2
100 13.6 10.9 16.3



#42
Toluene
Concen: 30.160 ug/L
RT: 7.99 min Scan# 2069
Delta R.T. -0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion: 91 Resp: 351797
Ion Ratio Lower Upper
91 100
92 59.5 41.2 76.6

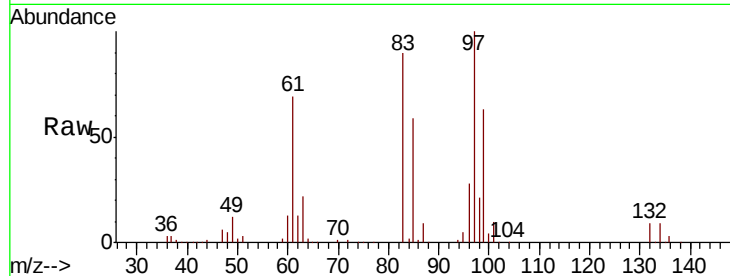




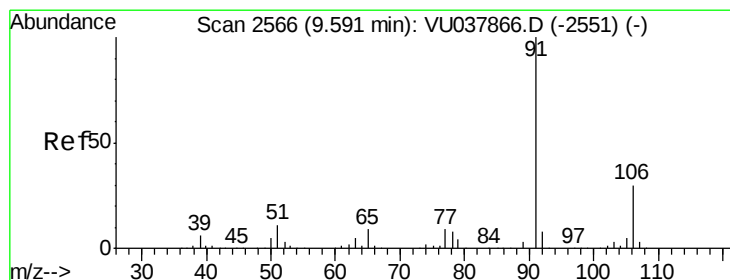
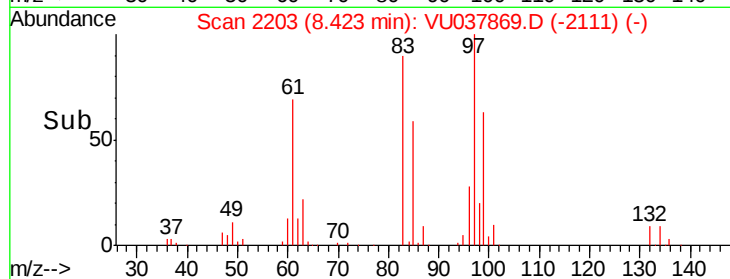
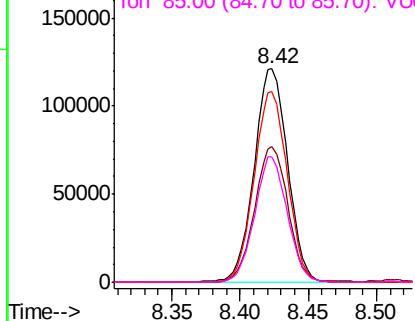
#45
 1,1,2-Trichloroethane
 Concen: 78.092 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	207003
Ion	Ratio	Lower	Upper
97	100		
99	63.3	44.0	81.6
83	89.5	62.6	116.2
85	58.6	40.0	74.4

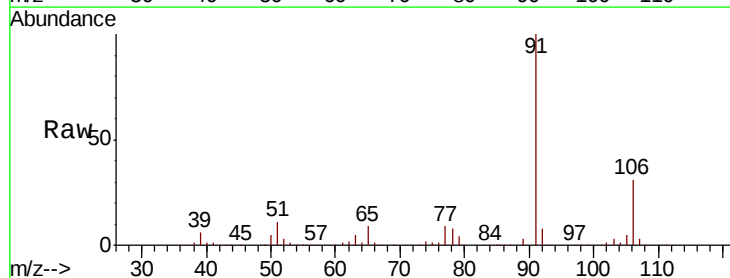


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

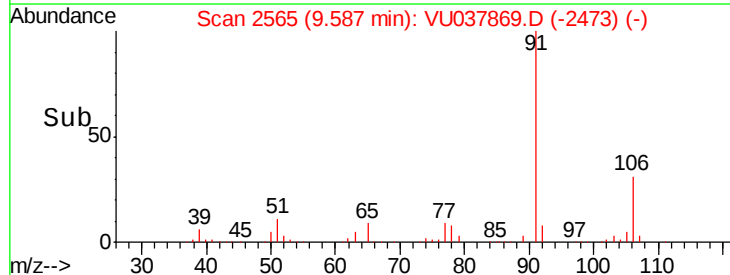
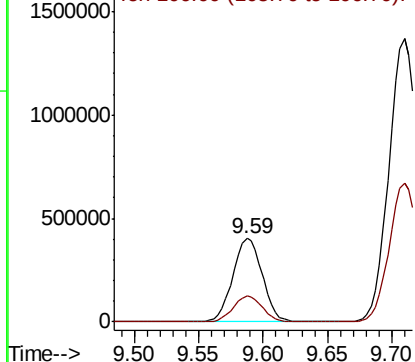


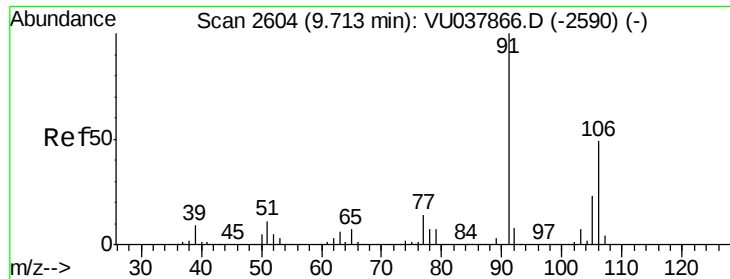
#52
 Ethylbenzene
 Concen: 49.183 ug/L
 RT: 9.59 min Scan# 2565
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Tgt Ion:	91	Resp:	642453
Ion	Ratio	Lower	Upper
91	100		
106	30.6	21.1	39.1



Abundance Ion 91.00 (90.70 to 91.70): VU0
 Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 222.801 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU037869.D

Acq: 24 Apr 2020 14:31

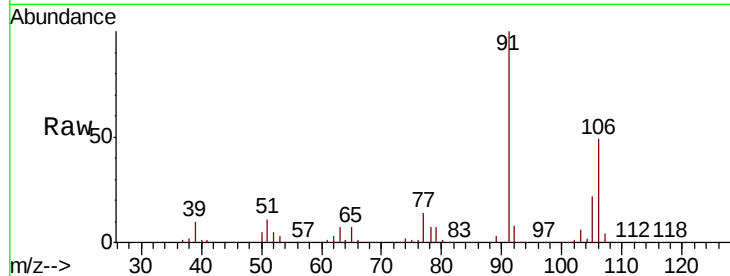
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 1095764

Ion Ratio Lower Upper

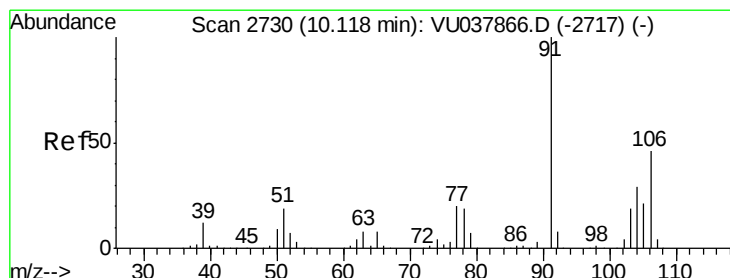
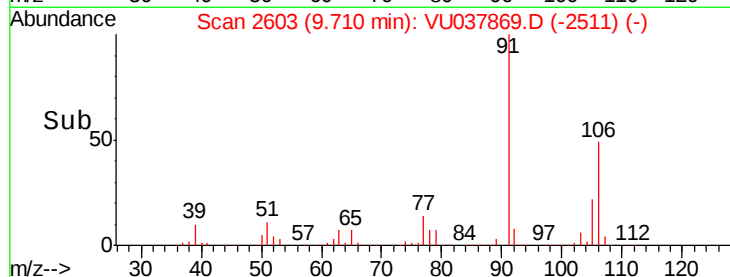
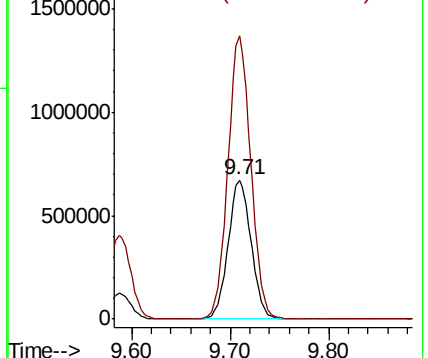
106 100

91 203.7 142.8 265.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 125.231 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037869.D

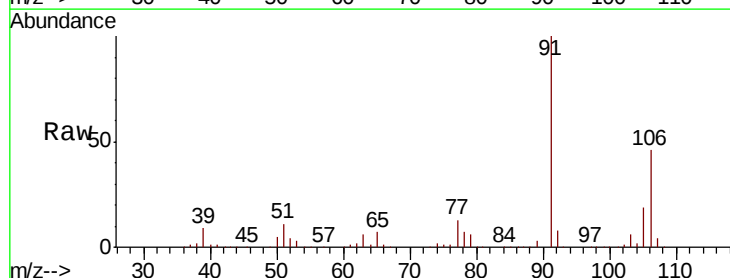
Acq: 24 Apr 2020 14:31

Tgt Ion:106 Resp: 602356

Ion Ratio Lower Upper

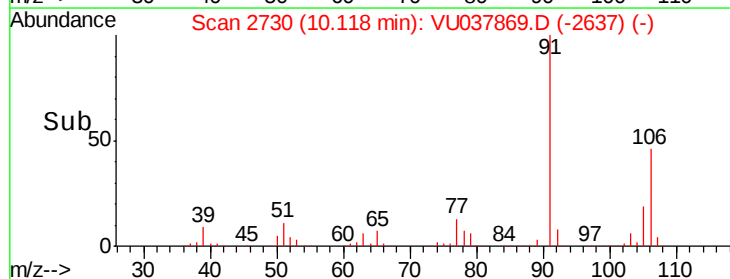
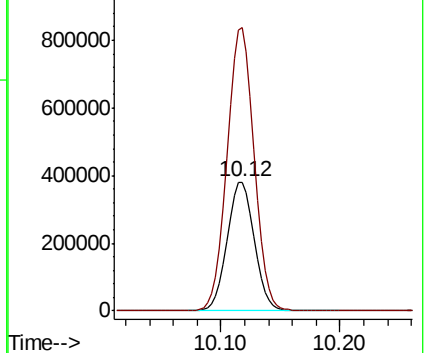
106 100

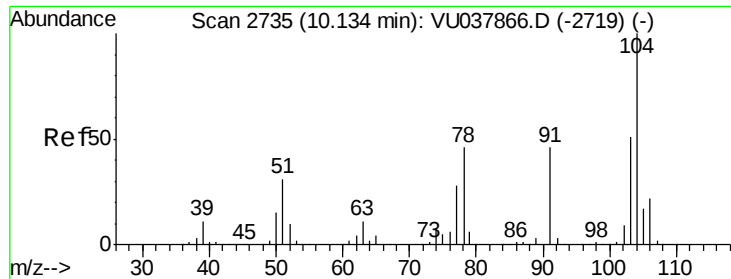
91 219.3 150.6 279.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

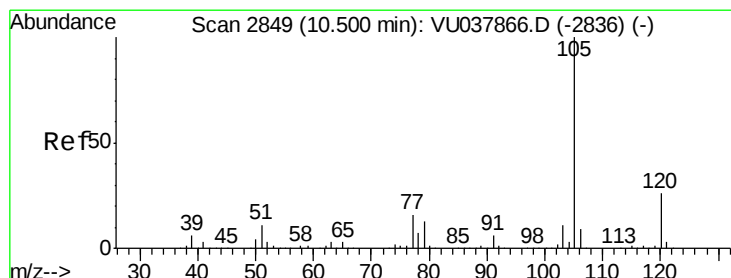
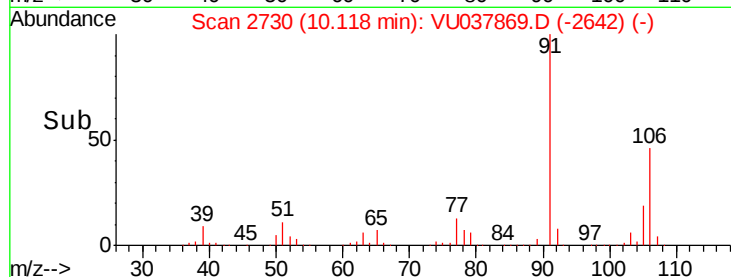
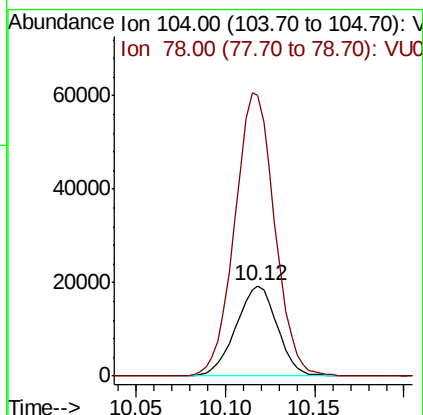
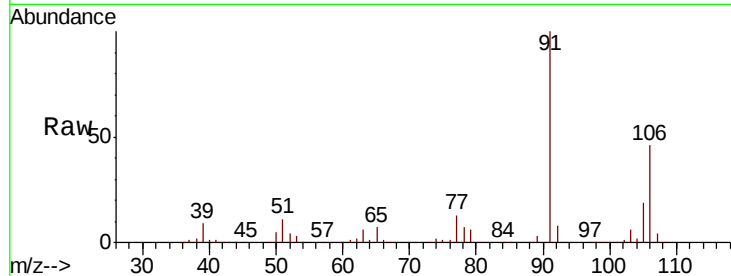




#55
Stvrene
Concen: 3.771 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.02 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

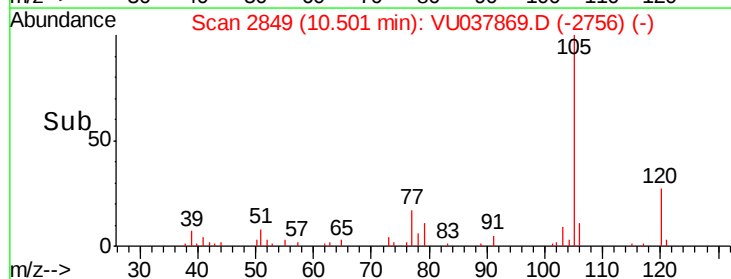
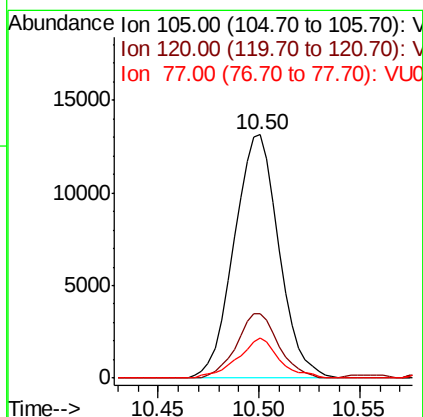
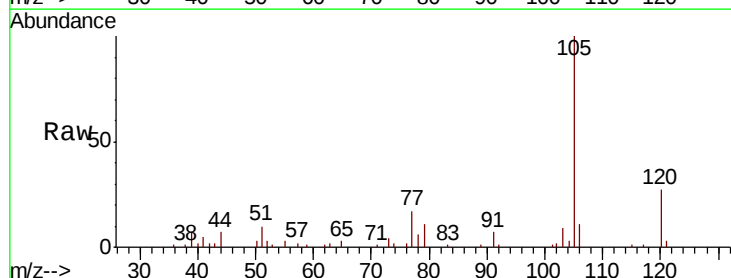
Instrument :
MSVOA_U
ClientSampleId :

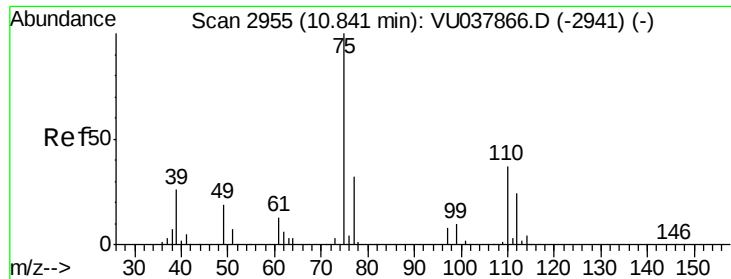
Tot Ion:104 Resp: 31193
Ion Ratio Lower Upper
104 100
78 310.0 32.6 60.6#



#56
Isopropylbenzene
Concen: 1.608 ug/L
RT: 10.50 min Scan# 2849
Delta R.T. 0.00 min
Lab File: VU037869.D
Acq: 24 Apr 2020 14:31

Tgt Ion:105 Resp: 20466
Ion Ratio Lower Upper
105 100
120 24.8 20.6 31.0
77 15.2 13.0 19.4

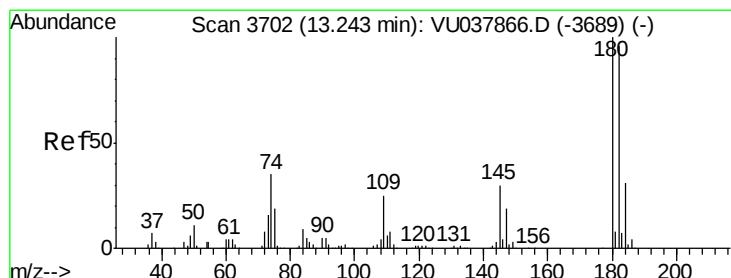
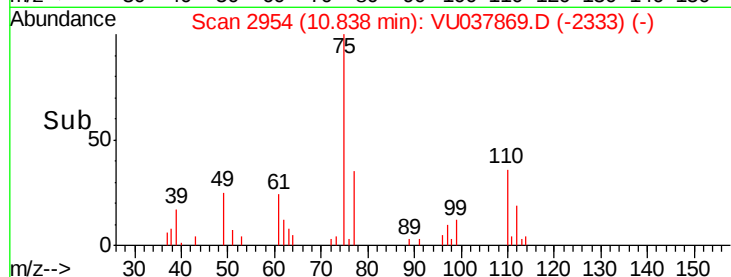
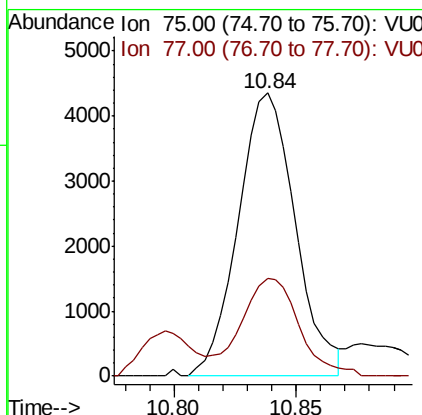
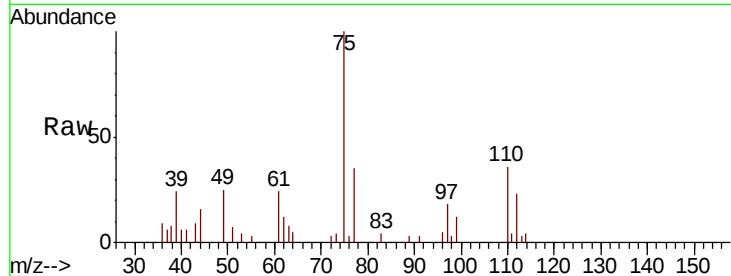




#59
 1,2,3-Trichloropropane
 Concen: 1.736 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

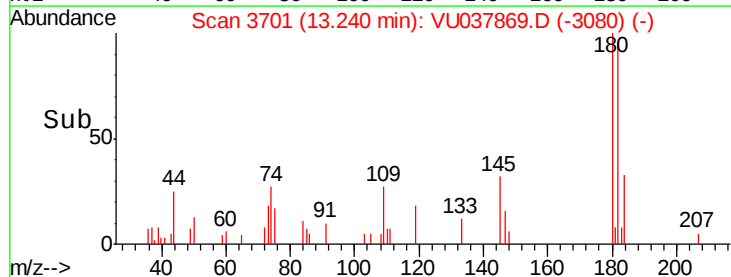
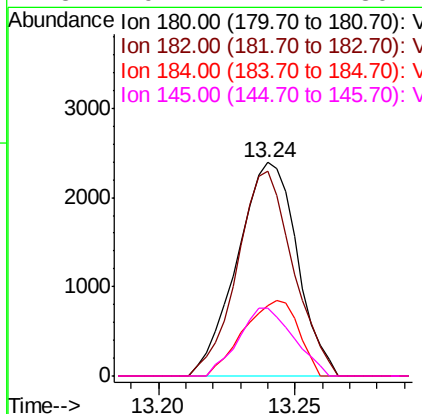
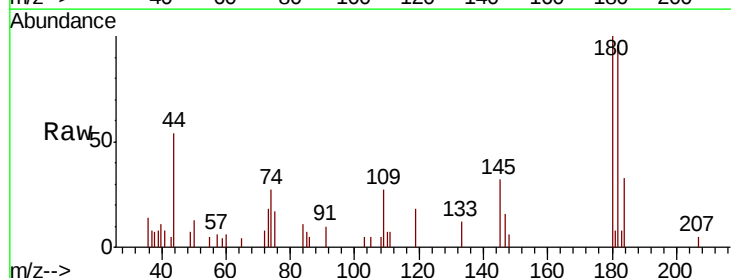
Instrument :
 MSVOA_U
 ClientSampled :

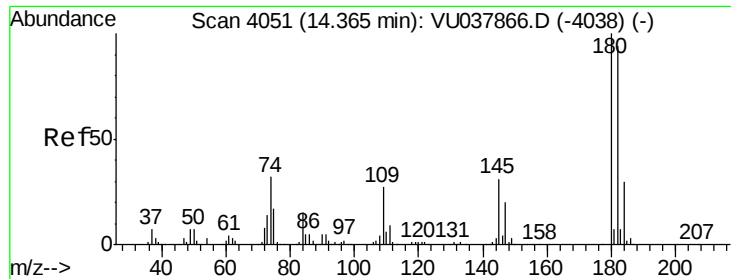
Tot Ion: 75 Resp: 7085
 Ion Ratio Lower Upper
 75 100
 77 30.7 25.8 38.6



#67
 1,3,5-Trichlorobenzene
 Concen: 1.054 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Tgt Ion:180 Resp: 3644
 Ion Ratio Lower Upper
 180 100
 182 89.5 76.5 114.7
 184 32.4 24.2 36.4
 145 29.1 24.2 36.4





#70
 1,2,3-Trichlorobenzene
 Concen: 1.103 ug/L
 RT: 14.36 min Scan# 4049
 Delta R.T. -0.01 min
 Lab File: VU037869.D
 Acq: 24 Apr 2020 14:31

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 3664
 Ion Ratio Lower Upper
 180 100
 182 101.3 76.6 114.8
 145 109.3 26.1 39.1#

