

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102620\
 Data File : VU040956.D
 Acq On : 26 Oct 2020 19:53
 Operator : SY/MD
 Sample : L4492-14
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AP2

Quant Time: Oct 27 03:17:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 27 03:00:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	51981	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	54452	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	22891	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	14157	3.24	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.80%
7) Chloroethane-d5	1.92	69	13582	4.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.00%
11) 1,1-Dichloroethene-d2	2.58	63	22941	2.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	53.60%#
20) 2-Butanone-d5	4.67	46	85352	59.35	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.70%
24) Chloroform-d	5.08	84	36718	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	23670	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.74	84	61422	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.40%
36) 1,2-Dichloropropane-d6	6.70	67	22445	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.91	98	46193	3.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.00%
43) trans-1,3-Dichloropropene-	8.19	79	7872	3.83	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.60%
46) 2-Hexanone-d5	8.64	63	60479	54.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.30%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	22174	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	20999	5.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1066	0.215	ug/L	87
5) Vinyl chloride	1.61	62	675	0.138	ug/L #	1
13) Acetone	2.68	43	2604	2.649	ug/L #	41
14) Carbon disulfide	2.81	76	1745	0.142	ug/L	96
15) Methyl Acetate	2.98	43	2594	1.153	ug/L #	58
16) Methylene chloride	3.06	84	1169	0.273	ug/L	93
23) Bromochloromethane	5.00	128	269	0.148	ug/L #	68
25) Chloroform	5.11	83	1109	0.148	ug/L	95
27) 1,2-Dichloroethane	5.74	62	373	0.067	ug/L #	74
33) Benzene	5.79	78	1508	0.093	ug/L	100
34) Trichloroethene	6.56	95	326	0.079	ug/L	79
35) Methylcyclohexane	6.78	83	176	0.028	ug/L #	55
37) 1,2-Dichloropropane	6.71	63	2663	0.605	ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	528	0.087	ug/L #	54
42) Toluene	7.98	91	3404	0.206	ug/L	98
44) trans-1,3-Dichloropropene	8.18	75	318	0.056	ug/L #	41
45) 1,1,2-Trichloroethane	8.56	97	1176	0.359	ug/L #	1

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 27 03:00:07 2020
Response via : Initial Calibration

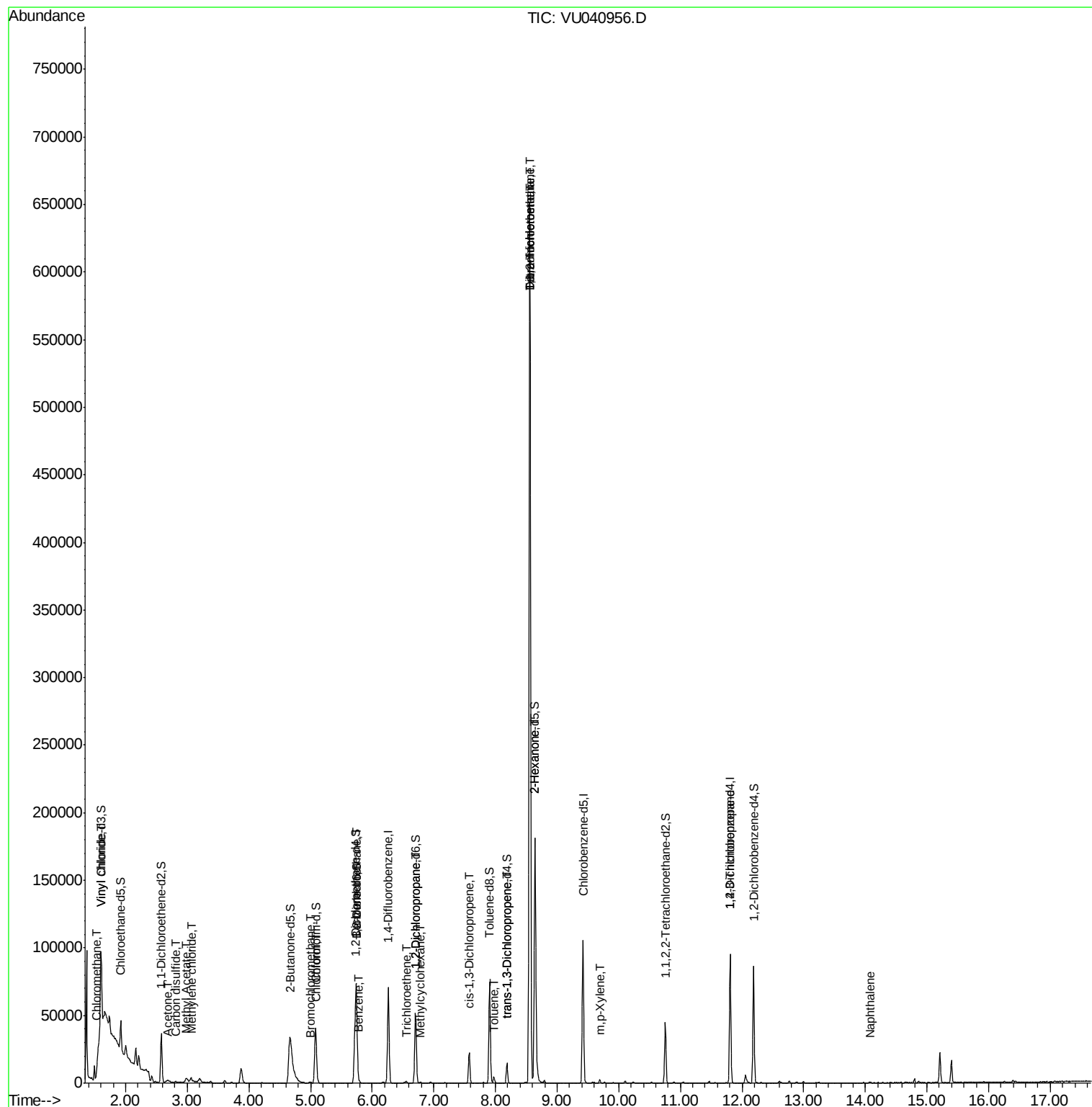
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	130952	43.011	ug/L	97
48) 2-Hexanone	8.64	43	8415	3.184	ug/L #	73
49) Dibromochloromethane	8.56	129	129095	33.919	ug/L #	11
53) m,p-Xylene	9.69	106	652	0.103	ug/L	90
59) 1,2,3-Trichloropropane	11.81	75	3220	0.981	ug/L	89
69) Naphthalene	14.07	128	736	0.108	ug/L #	69

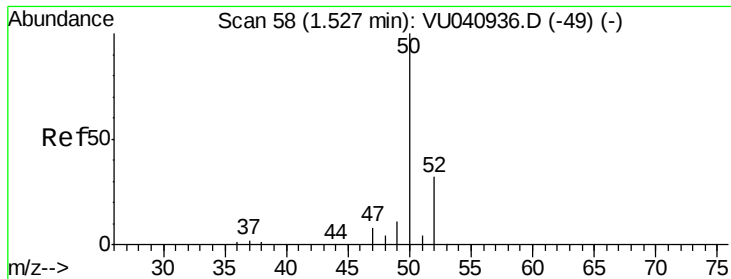
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.215 ug/L

RT: 1.53 min Scan# 58

Delta R.T. -0.00 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampled :

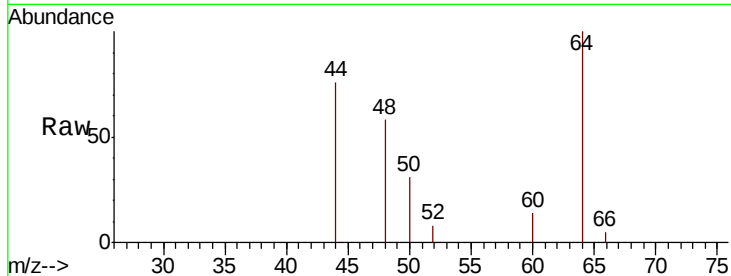
C0AP2

Tot Ion: 50 Resp: 1066

Ion Ratio Lower Upper

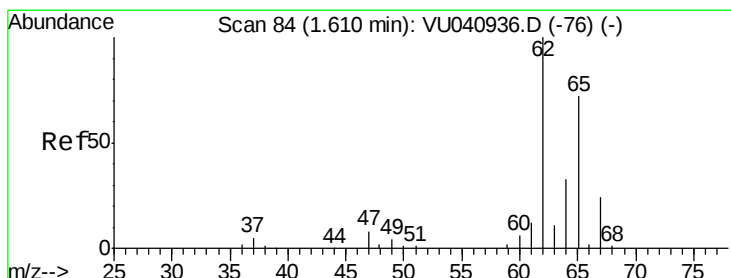
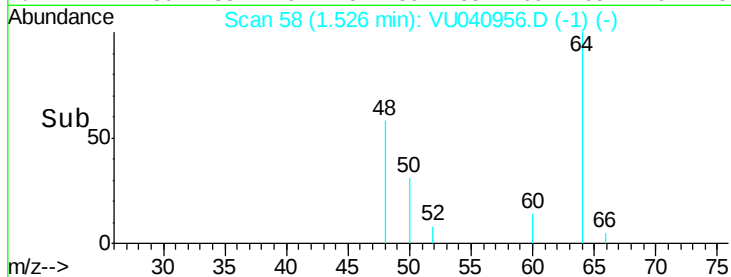
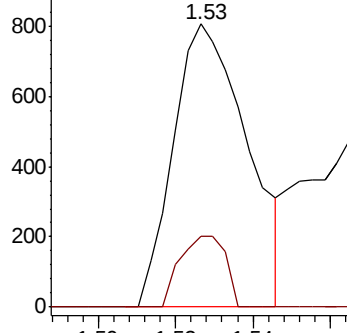
50 100

52 24.8 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 0.138 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU040956.D

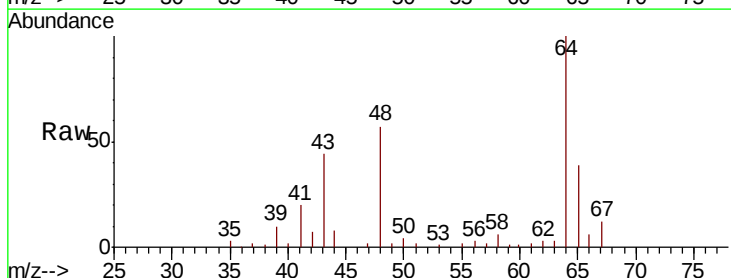
Acq: 26 Oct 2020 19:53

Tgt Ion: 62 Resp: 675

Ion Ratio Lower Upper

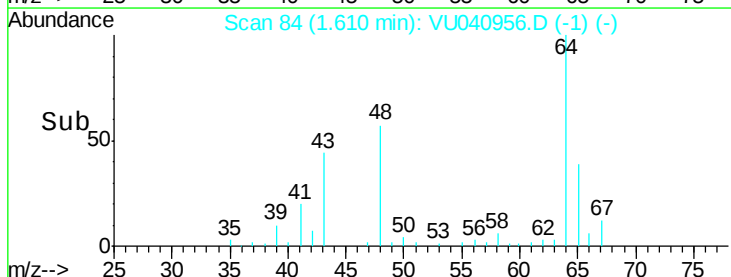
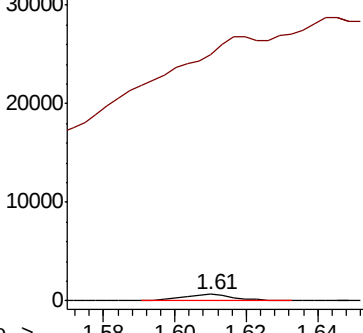
62 100

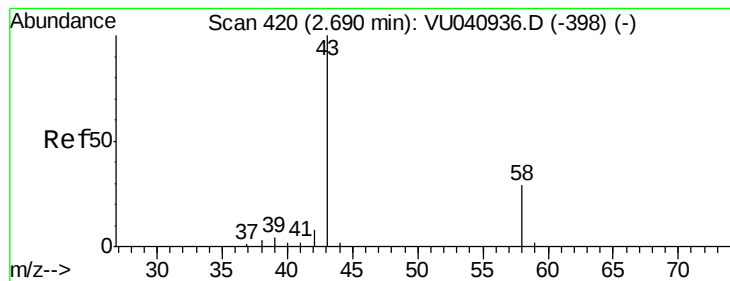
64 3739.7 22.7 42.3#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#13

Acetone

Concen: 2.649 ug/L

RT: 2.68 min Scan# 417

Delta R.T. -0.01 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

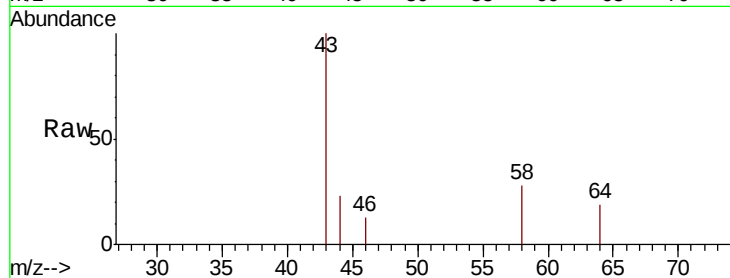
C0AP2

Tot Ion: 43 Resp: 2604

Ion Ratio Lower Upper

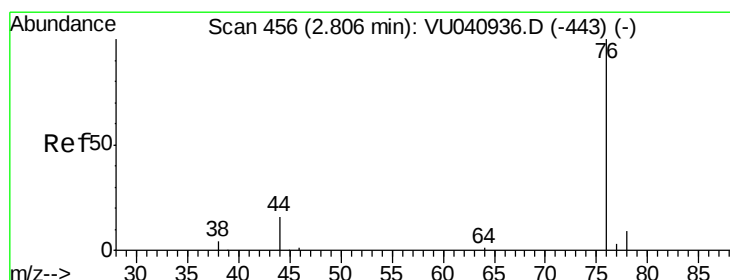
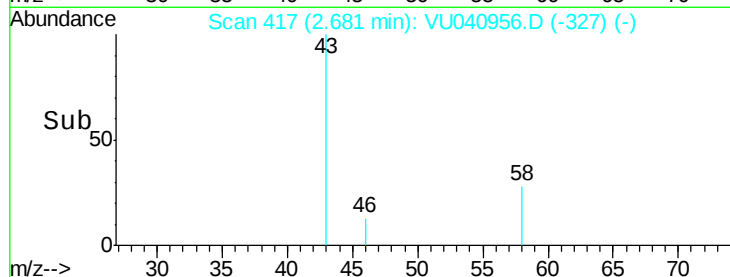
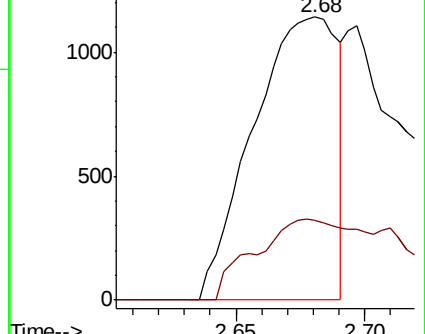
43 100

58 35.8 0.0 25.4#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 0.142 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040956.D

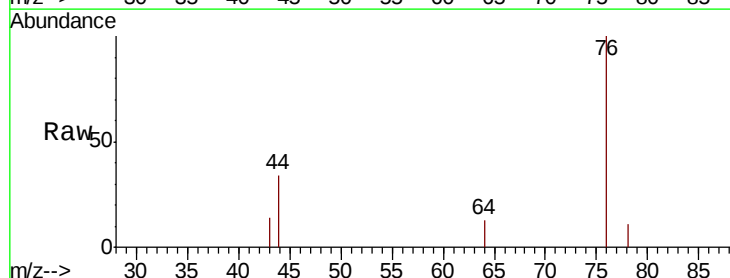
Acq: 26 Oct 2020 19:53

Tgt Ion: 76 Resp: 1745

Ion Ratio Lower Upper

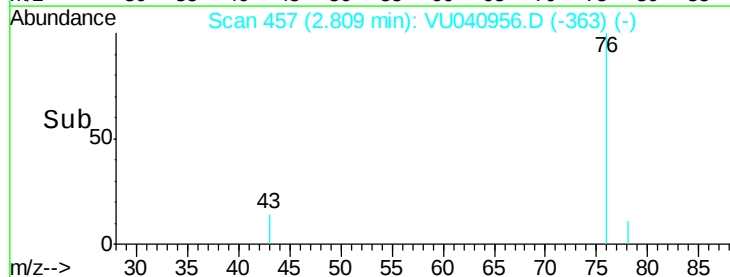
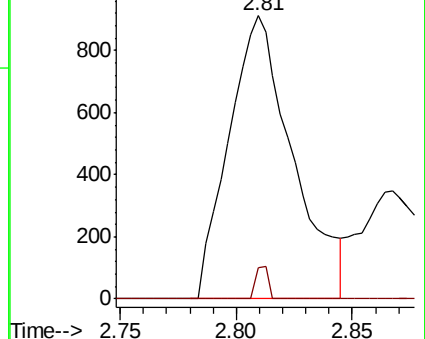
76 100

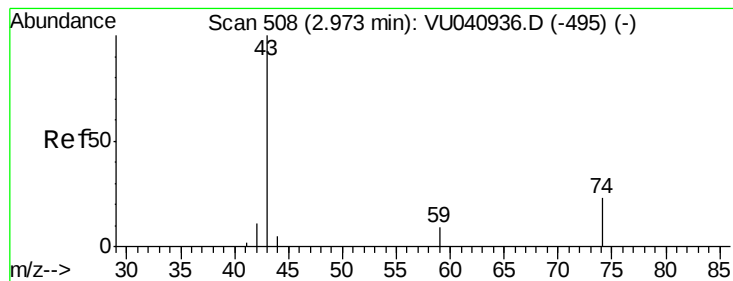
78 11.0 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methyl Acetate

Concen: 1.153 ug/L

RT: 2.98 min Scan# 510

Delta R.T. 0.01 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

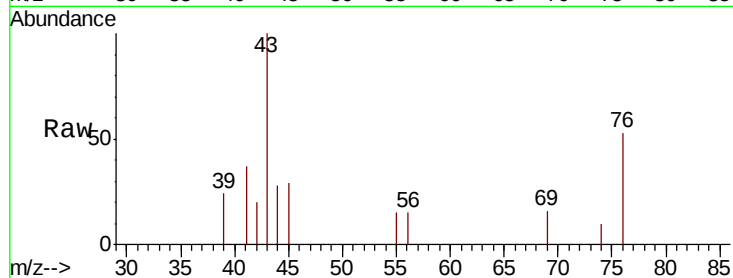
C0AP2

Tot Ion: 43 Resp: 2594

Ion Ratio Lower Upper

43 100

74 2.5 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU040956.D (-495) (-)

Ion 74.05 (73.75 to 74.75): VU040956.D (-495) (-)

1200

1000

800

600

400

200

0

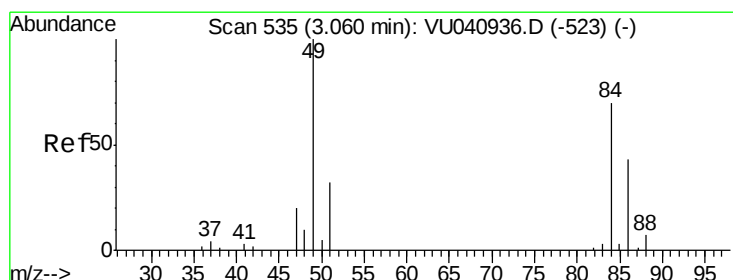
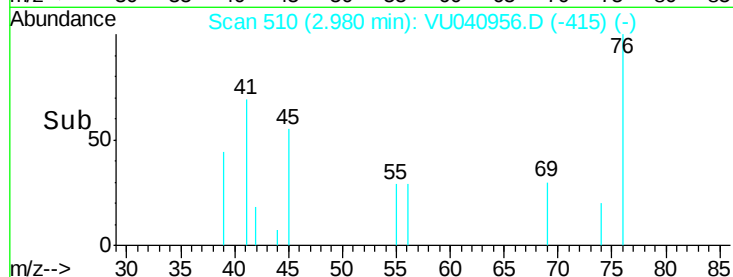
2.90

2.95

3.00

3.05

Time-->



#16

Methylene chloride

Concen: 0.273 ug/L

RT: 3.06 min Scan# 535

Delta R.T. -0.00 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

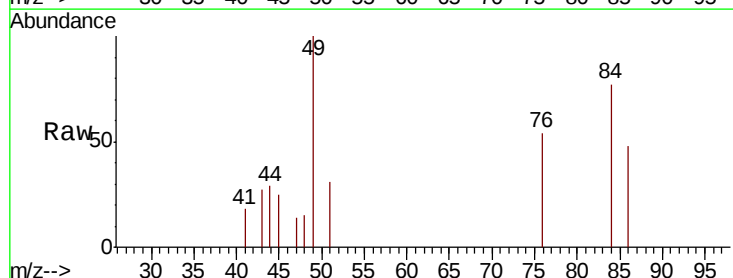
Tgt Ion: 84 Resp: 1169

Ion Ratio Lower Upper

84 100

86 61.6 42.8 79.6

49 129.5 99.5 184.7



Abundance Ion 84.05 (83.75 to 84.75): VU040956.D (-523) (-)

Ion 86.00 (85.70 to 86.70): VU040956.D (-523) (-)

Ion 49.10 (48.80 to 49.80): VU040956.D (-523) (-)

1200

1000

800

600

400

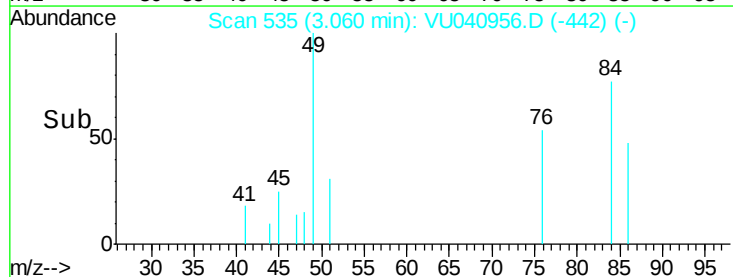
200

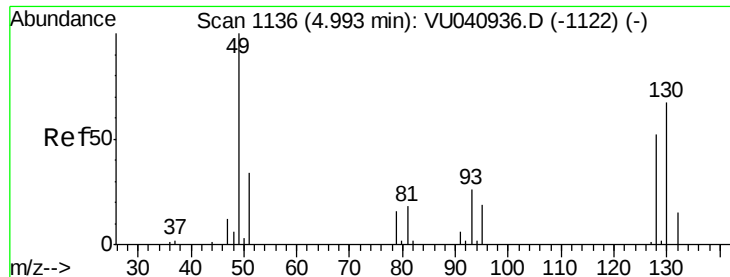
0

3.05

3.10

Time-->

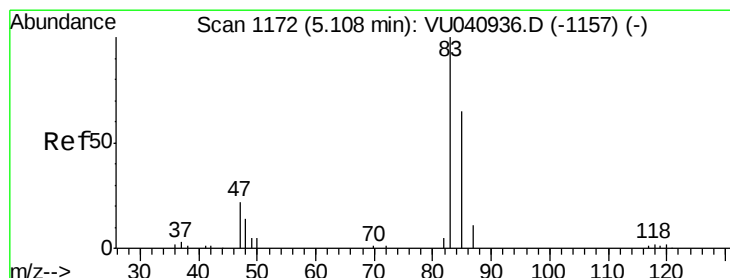
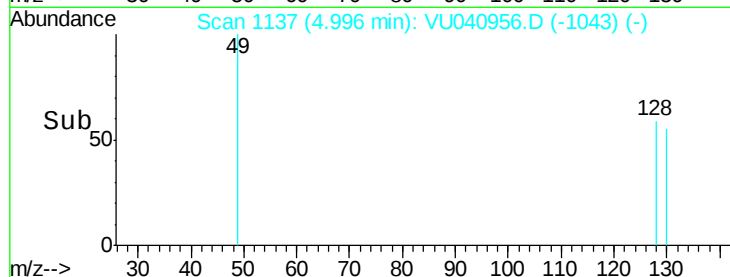
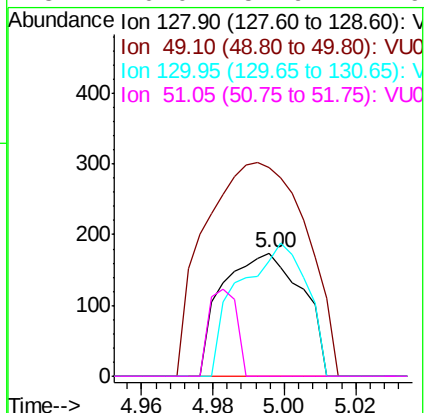
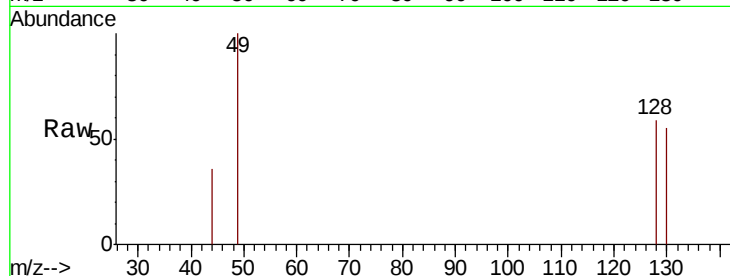




#23
Bromochloromethane
Concen: 0.148 ug/L
RT: 5.00 min Scan# 1137
Delta R.T. 0.00 min
Lab File: VU040956.D
Acq: 26 Oct 2020 19:53

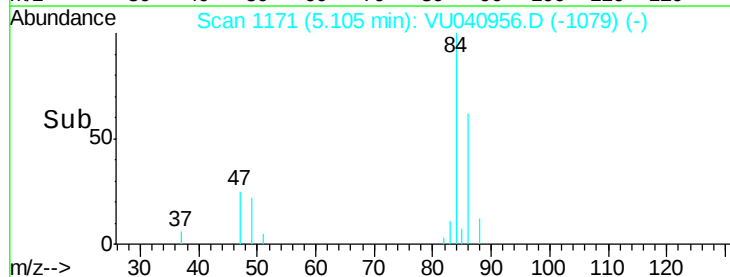
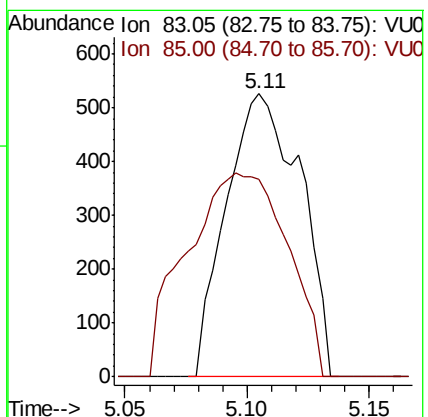
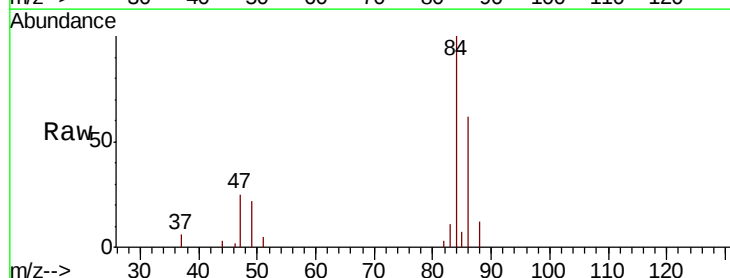
Instrument :
MSVOA_U
ClientSampleId :
C0AP2

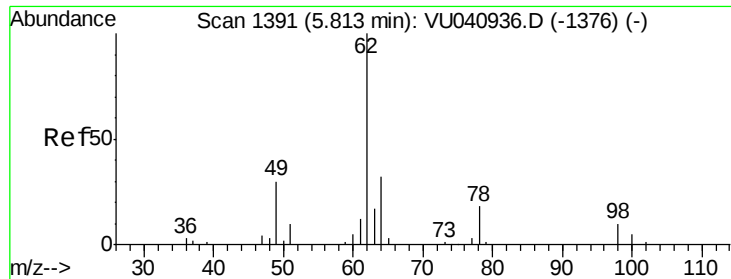
Tot Ion:128 Resp: 269
Ion Ratio Lower Upper
128 100
49 169.5 135.0 250.8
130 93.7 89.9 167.0
51 0.0 51.9 77.9#



#25
Chloroform
Concen: 0.148 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU040956.D
Acq: 26 Oct 2020 19:53

Tgt Ion: 83 Resp: 1109
Ion Ratio Lower Upper
83 100
85 69.6 46.1 85.7

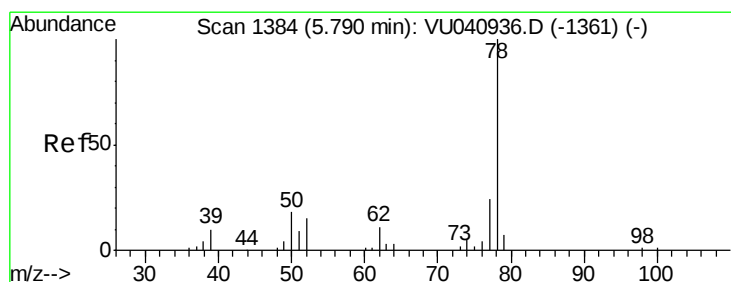
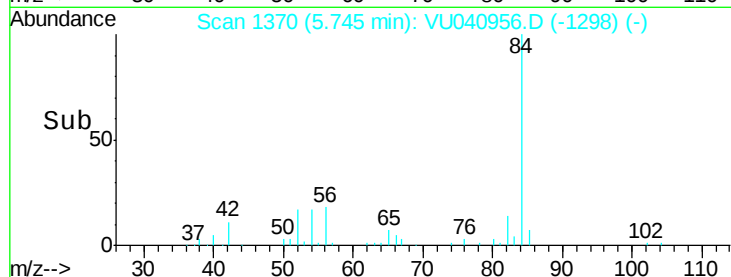
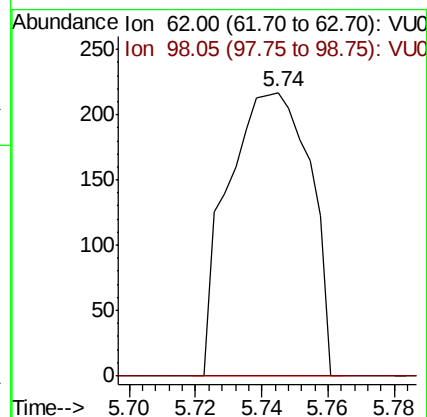
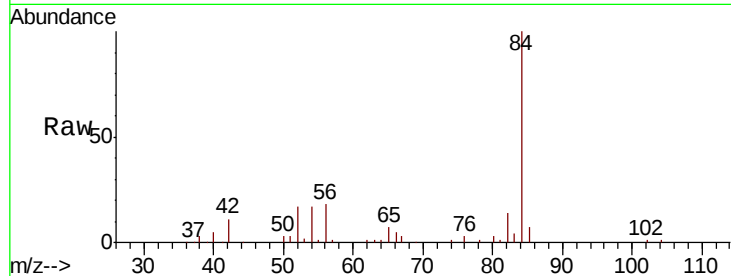




#27
 1,2-Dichloroethane
 Concen: 0.067 ug/L
 RT: 5.74 min Scan# 1370
 Delta R.T. -0.07 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

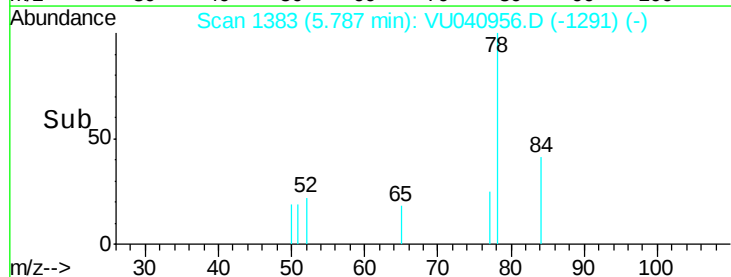
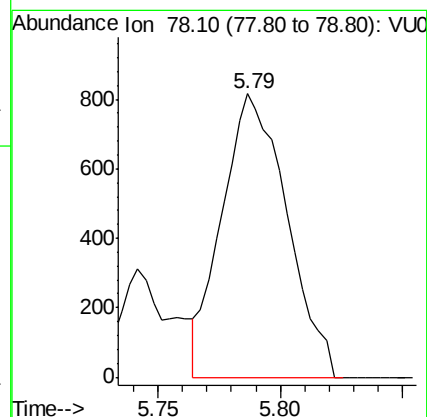
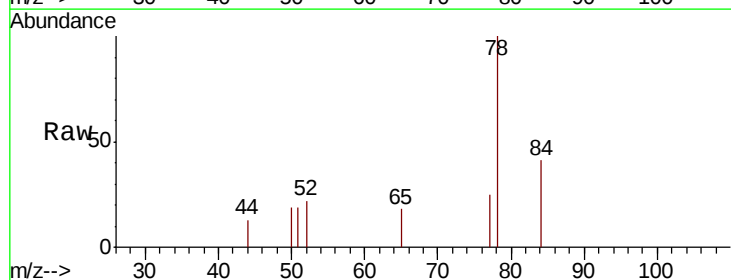
Instrument :
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 ClientSampled :
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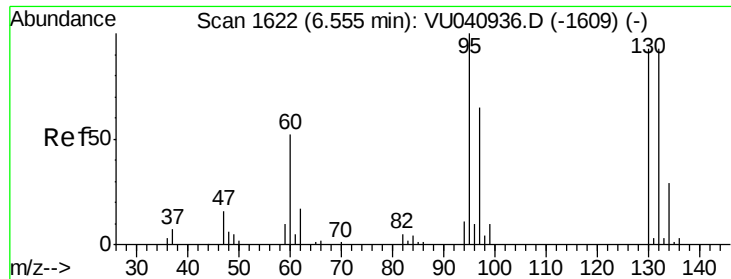
Tot Ion: 62 Resp: 373
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.6 11.4#



#33
 Benzene
 Concen: 0.093 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

Tgt Ion: 78 Resp: 1508

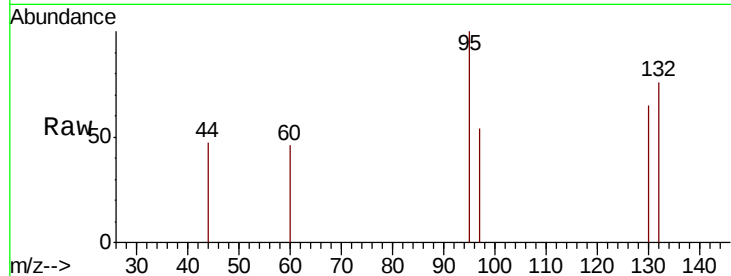




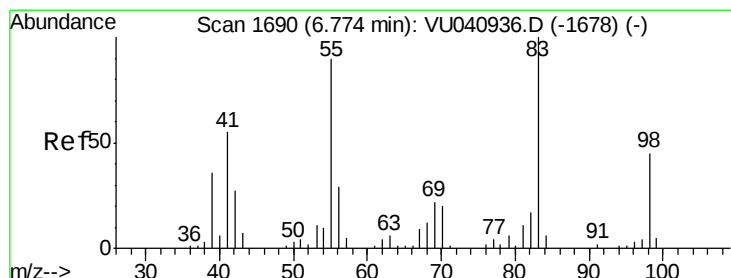
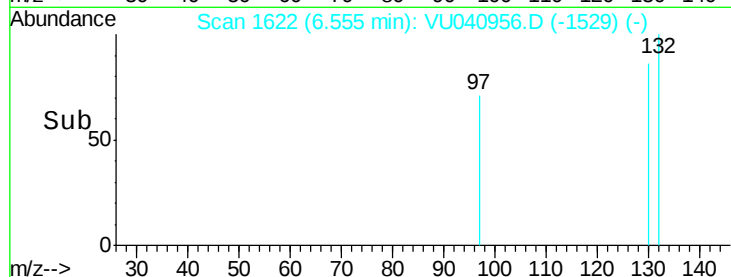
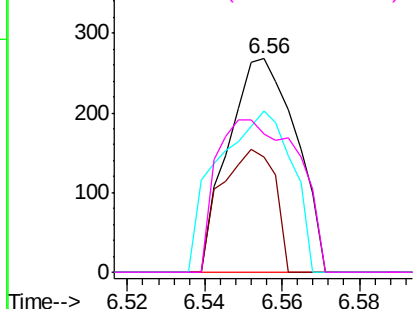
#34
 Trichloroethene
 Concen: 0.079 ug/L
 RT: 6.56 min Scan# 1622
 Delta R.T. -0.00 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AP2

Tot Ion: 95 Resp: 326
 Ion Ratio Lower Upper
 95 100
 97 54.1 45.6 84.6
 132 75.7 64.8 120.4
 130 64.9 64.8 120.4

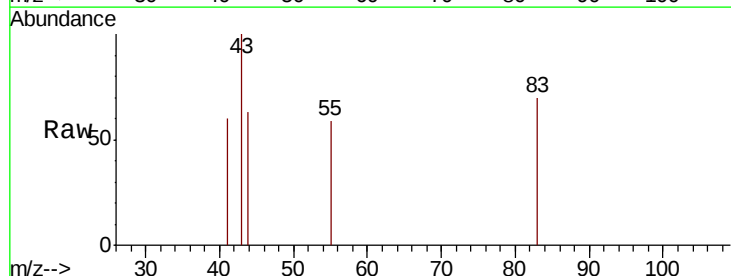


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

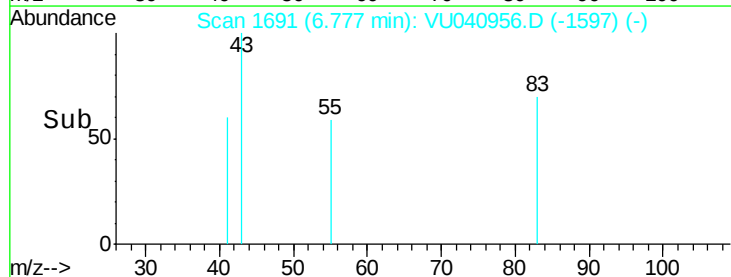
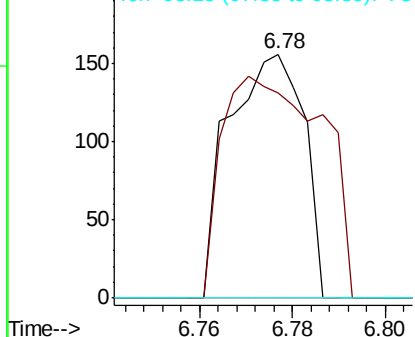


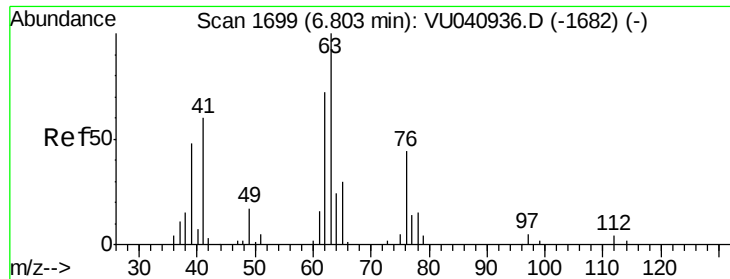
#35
 Methylcyclohexane
 Concen: 0.028 ug/L
 RT: 6.78 min Scan# 1691
 Delta R.T. 0.00 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

Tgt Ion: 83 Resp: 176
 Ion Ratio Lower Upper
 83 100
 55 120.5 72.0 108.0#
 98 0.0 36.6 55.0#



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

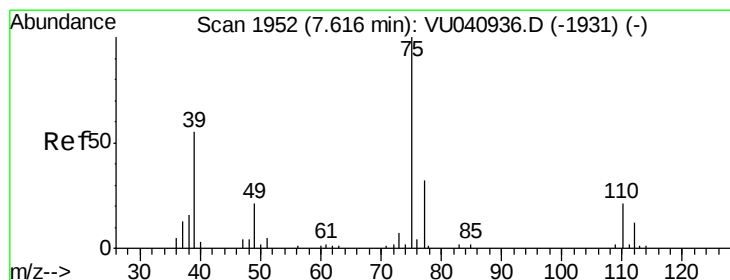
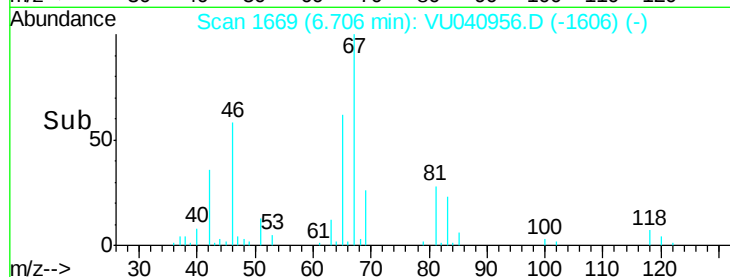
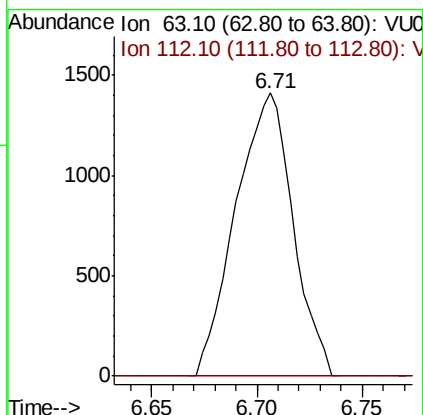
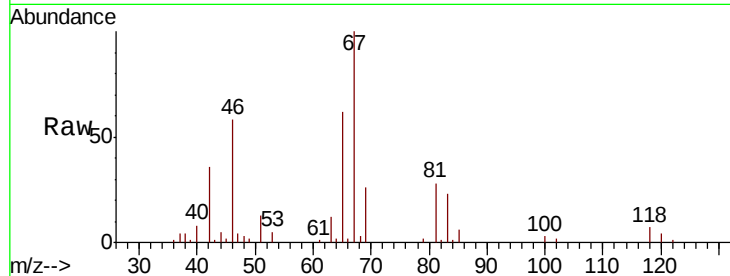




#37
 1,2-Dichloropropane
 Concen: 0.605 ug/L
 RT: 6.71 min Scan# 1699
 Delta R.T. -0.10 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

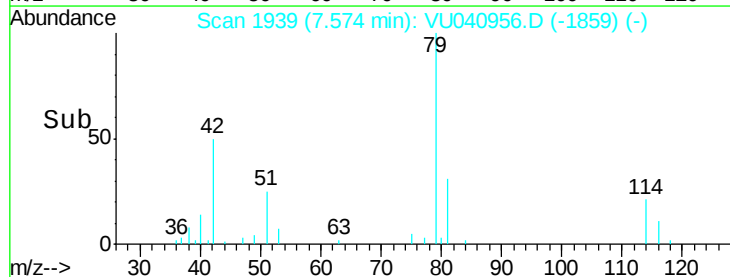
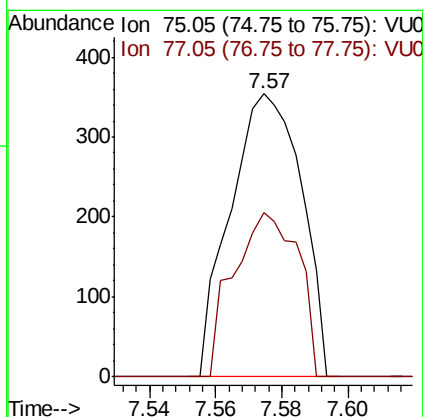
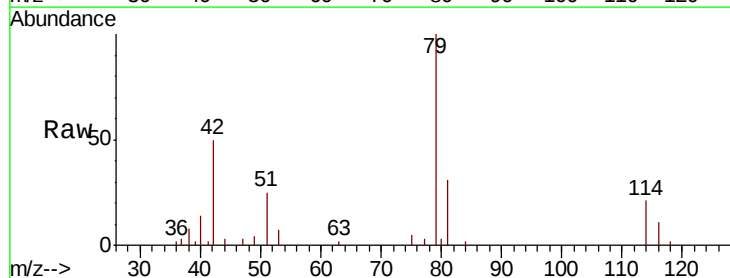
Instrument :
 MSVOA_U
 ClientSampled :
 C0AP2

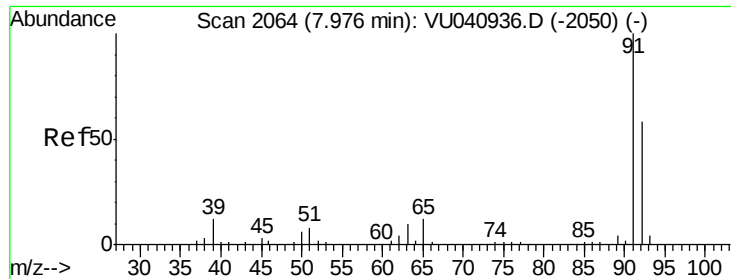
Tot Ion: 63 Resp: 2663
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.087 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040956.D
 Acq: 26 Oct 2020 19:53

Tgt Ion: 75 Resp: 528
 Ion Ratio Lower Upper
 75 100
 77 58.2 22.7 42.3#





#42

Toluene

Concen: 0.206 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. -0.00 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

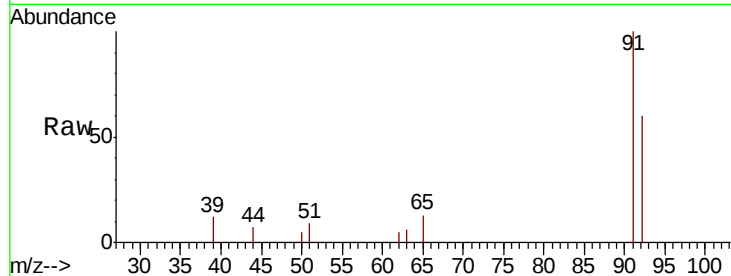
C0AP2

Tot Ion: 91 Resp: 3404

Ion Ratio Lower Upper

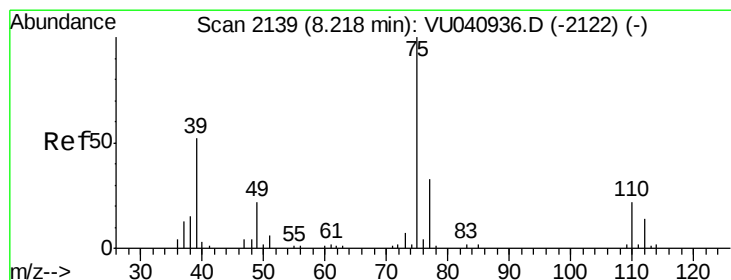
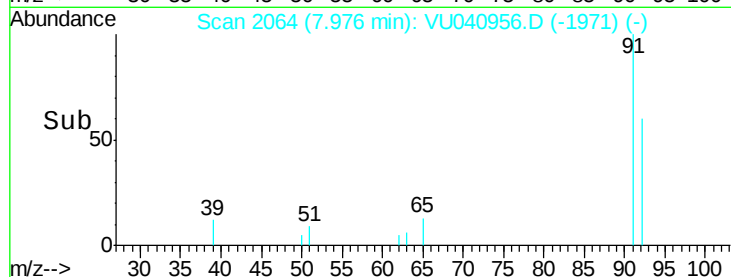
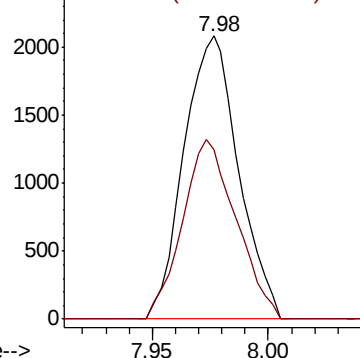
91 100

92 59.9 40.6 75.4



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.056 ug/L

RT: 8.18 min Scan# 2127

Delta R.T. -0.04 min

Lab File: VU040956.D

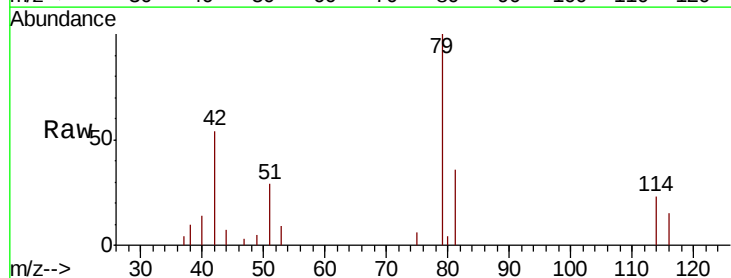
Acq: 26 Oct 2020 19:53

Tgt Ion: 75 Resp: 318

Ion Ratio Lower Upper

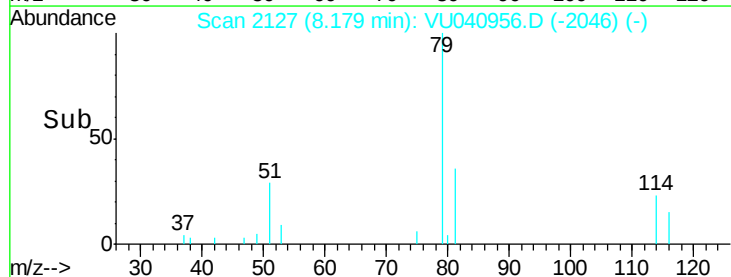
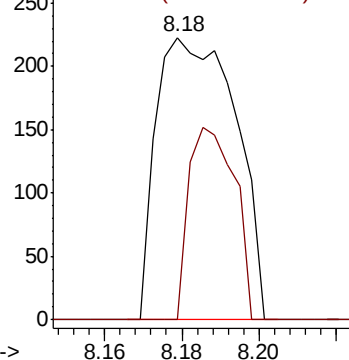
75 100

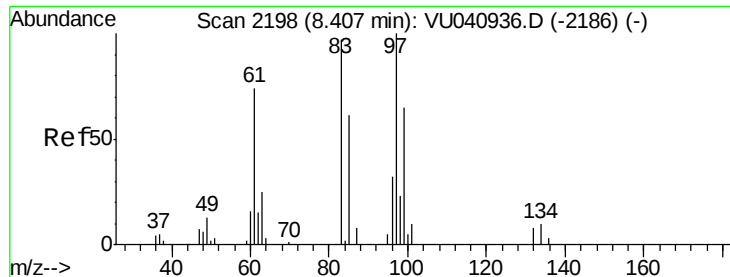
77 0.0 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#45

1,1,2-Trichloroethane

Concen: 0.359 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

C0AP2

Tot Ion: 97 Resp: 1176

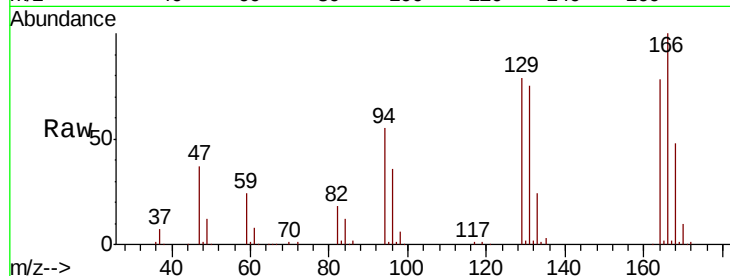
Ion Ratio Lower Upper

97 100

99 20.6 45.8 85.2#

83 274.8 67.9 126.1#

85 41.9 42.8 79.6#

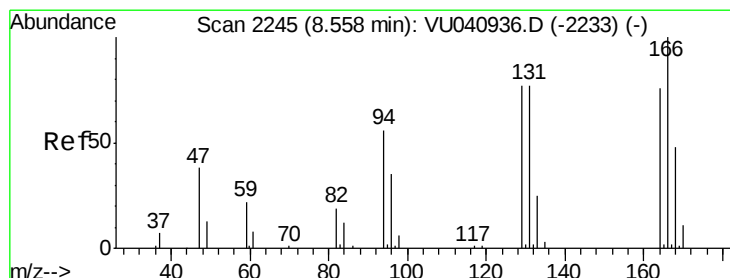
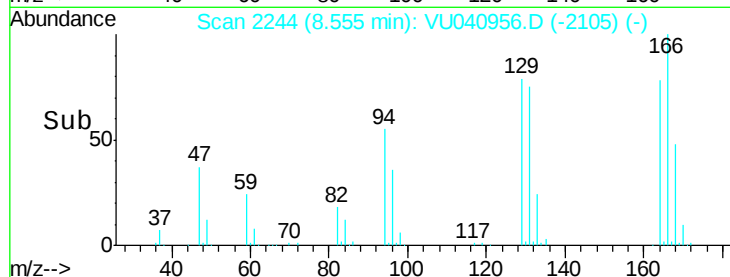
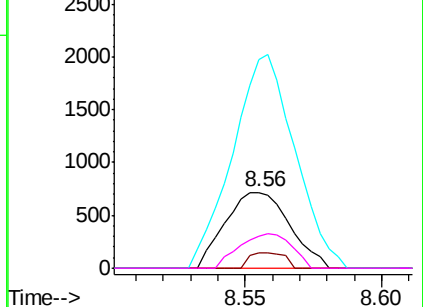


Abundance Ion 96.95 (96.65 to 97.65): VU0

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



#47

Tetrachloroethene

Concen: 43.011 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Tgt Ion:164 Resp: 130952

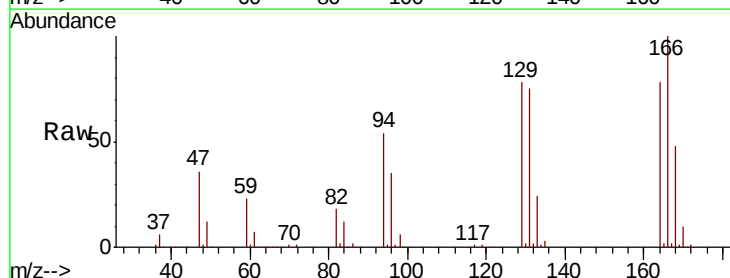
Ion Ratio Lower Upper

164 100

129 99.2 70.3 130.7

131 95.2 70.8 131.4

166 127.7 92.0 170.8

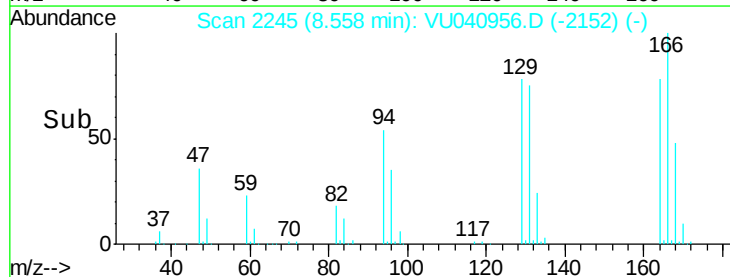
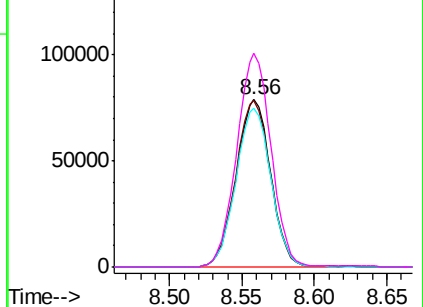


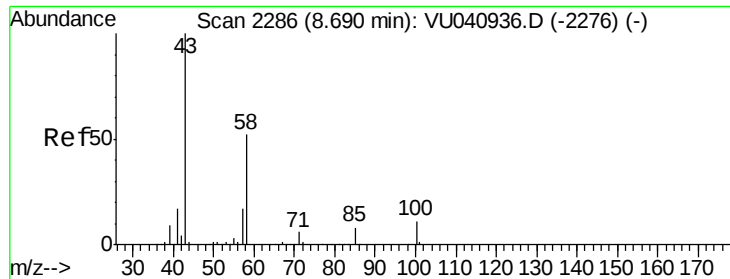
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

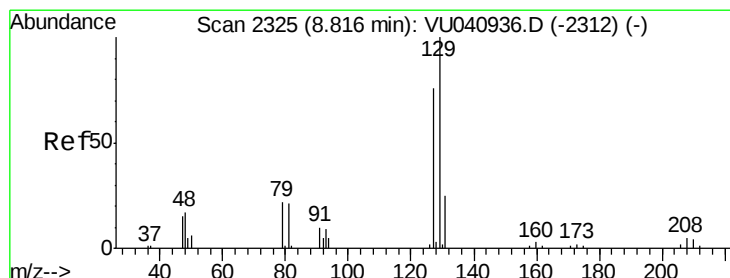
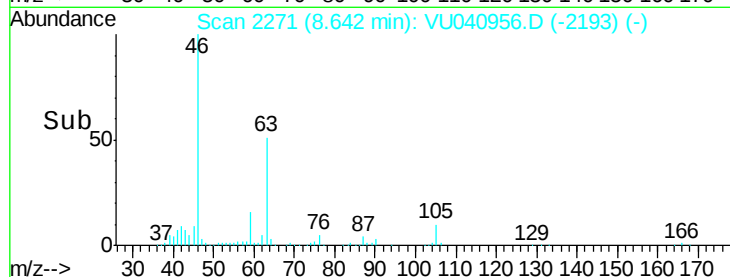
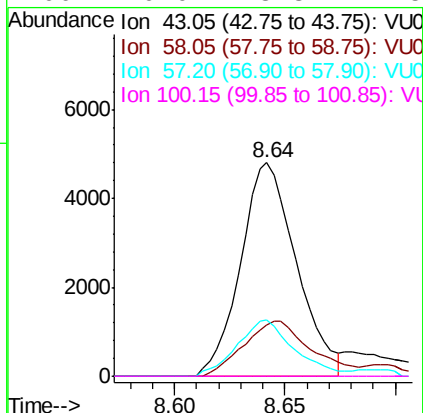
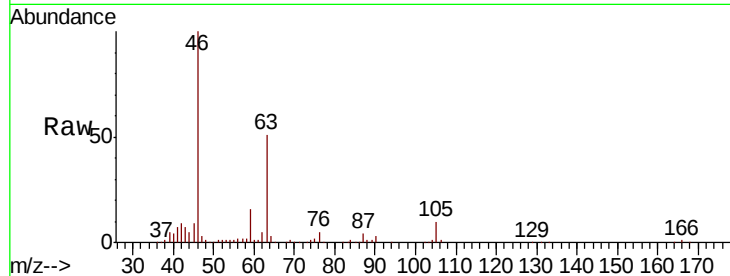




#48
2-Hexanone
Concen: 3.184 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040956.D
Acq: 26 Oct 2020 19:53

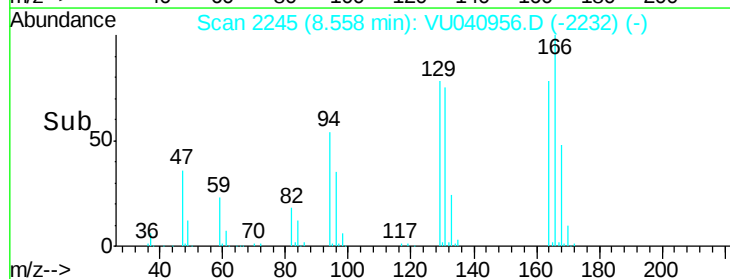
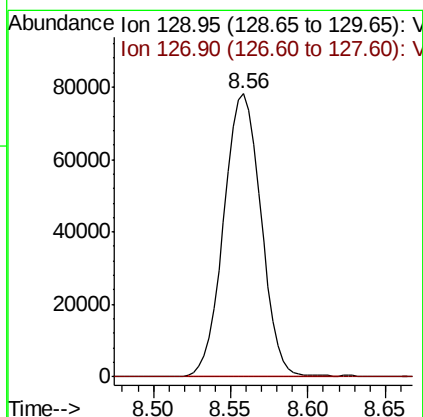
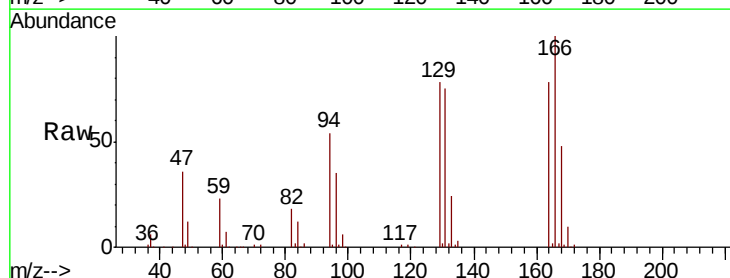
Instrument :
MSVOA_U
ClientSampleId :
C0AP2

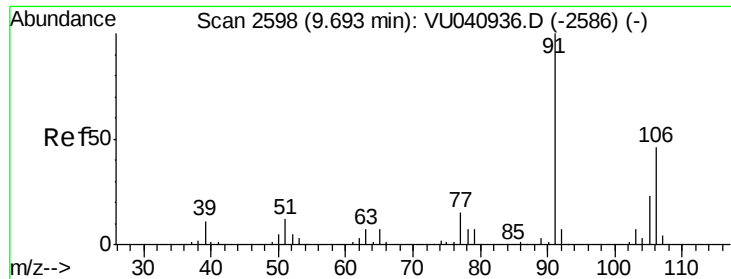
Tot Ion	Ratio	Lower	Upper
43	100		
58	31.2	41.4	62.2#
57	27.0	14.6	21.8#
100	0.0	8.3	12.5#



#49
Dibromochloromethane
Concen: 33.919 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.26 min
Lab File: VU040956.D
Acq: 26 Oct 2020 19:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	0.0	53.4	99.2#





#53

m,p-Xylene

Concen: 0.103 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

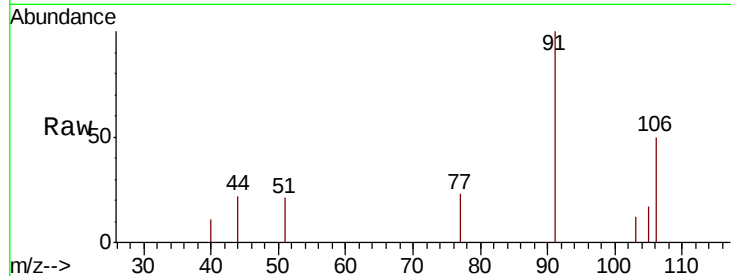
C0AP2

Tot Ion:106 Resp: 652

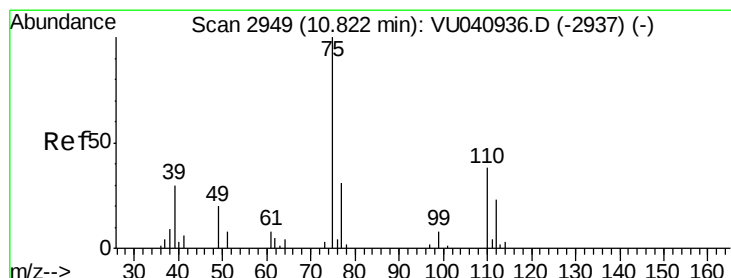
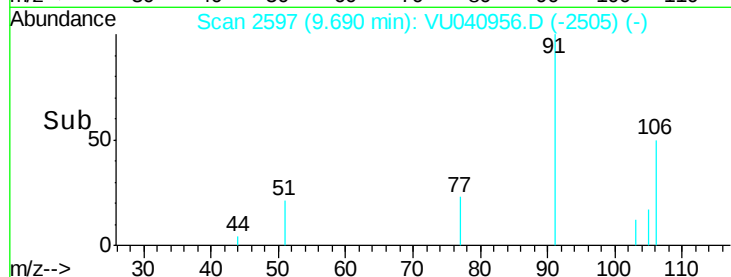
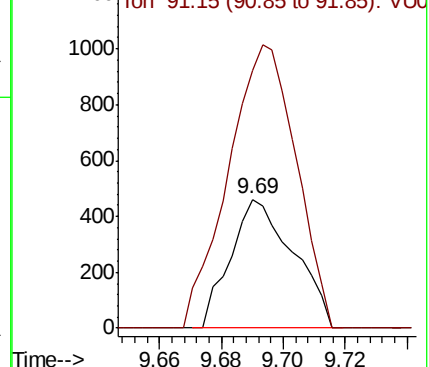
Ion Ratio Lower Upper

106 100

91 200.2 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): VU040936.D (-2586) (-)



#59

1,2,3-Trichloropropane

Concen: 0.981 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040956.D

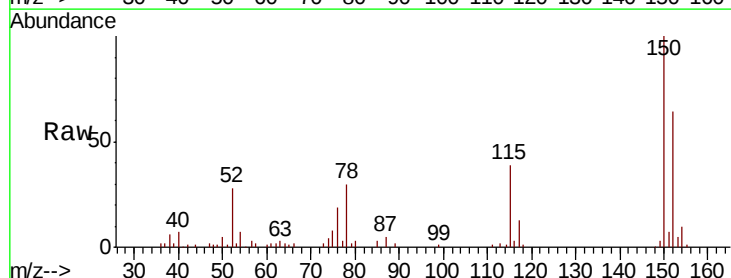
Acq: 26 Oct 2020 19:53

Tgt Ion: 75 Resp: 3220

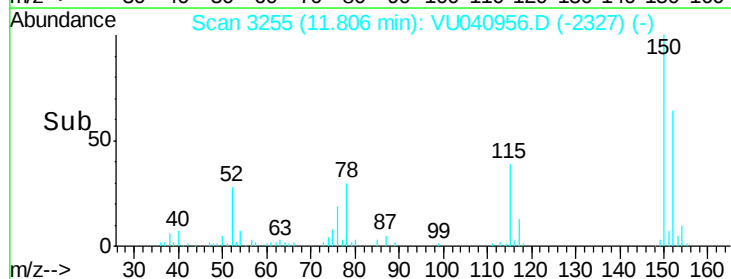
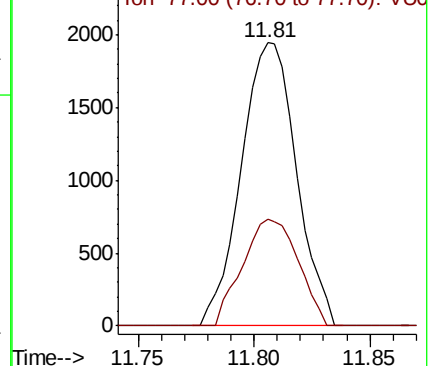
Ion Ratio Lower Upper

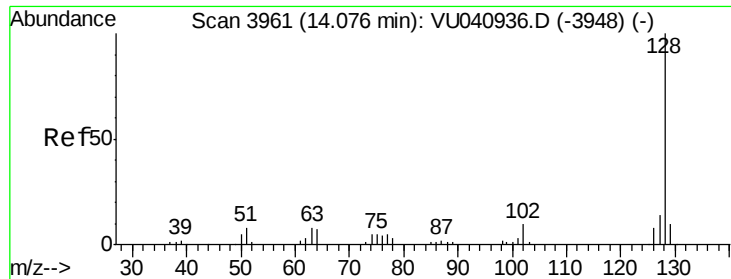
75 100

77 38.1 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VU040936.D (-2937) (-)





#69

Naphthalene

Concen: 0.108 ug/L

RT: 14.07 min Scan# 3959

Delta R.T. -0.01 min

Lab File: VU040956.D

Acq: 26 Oct 2020 19:53

Instrument :

MSVOA_U

ClientSampleId :

C0AP2

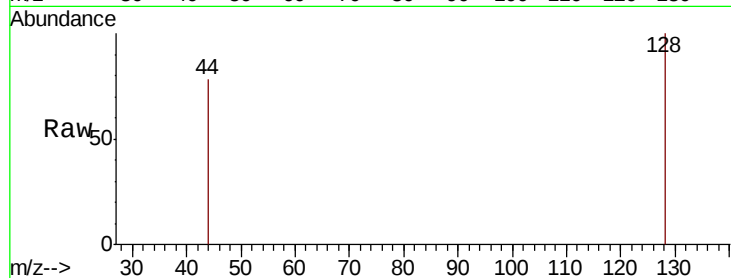
Tot Ion:128 Resp: 736

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

