

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U101120\
 Data File : VU040637.D
 Acq On : 10 Oct 2020 16:18
 Operator : SY/MD
 Sample : L4240-11DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3TODL

Quant Time: Oct 12 07:14:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 12 07:06:57 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	133463	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	131877	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	70675	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44763	4.05	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.00%
7) Chloroethane-d5	1.92	69	38104	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.40%
11) 1,1-Dichloroethene-d2	2.58	63	69283	3.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.00%
20) 2-Butanone-d5	4.66	46	199037	56.24	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.48%
24) Chloroform-d	5.08	84	91290	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.72	65	56795	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.74	84	171573	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.60%
36) 1,2-Dichloropropane-d6	6.70	67	57447	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.40%
41) Toluene-d8	7.91	98	142602	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	8.19	79	23432	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
46) 2-Hexanone-d5	8.64	63	137113	53.19	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.38%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	52238	4.93	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	65510	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	1586	0.140 ug/L #	43
8) Chloroethane	1.94	64	415	0.055 ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	577	0.052 ug/L #	20
14) Carbon disulfide	2.81	76	1149	0.043 ug/L #	76
15) Methyl Acetate	3.10	43	187906	29.998 ug/L #	56
16) Methylene chloride	3.06	84	2663	0.218 ug/L	77
19) 1,1-Dichloroethane	3.71	63	2444	0.119 ug/L #	26
25) Chloroform	5.11	83	1225	0.058 ug/L	83
30) Cyclohexane	5.40	56	13086	0.801 ug/L	99
33) Benzene	5.74	78	1517	0.036 ug/L	100
35) Methylcyclohexane	6.77	83	641	0.041 ug/L #	71
37) 1,2-Dichloropropane	6.70	63	6990	0.592 ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1549	0.096 ug/L #	57
44) trans-1,3-Dichloropropene	8.19	75	1140	0.077 ug/L #	77
53) m,p-Xylene	9.69	106	2578	0.151 ug/L	78
56) Isopropylbenzene	10.48	105	7975	0.181 ug/L	97
59) 1,2,3-Trichloropropane	11.81	75	10190	1.175 ug/L	90

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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
BG3T0DL

Quant Time: Oct 12 07:14:29 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 12 07:06:57 2020
Response via : Initial Calibration

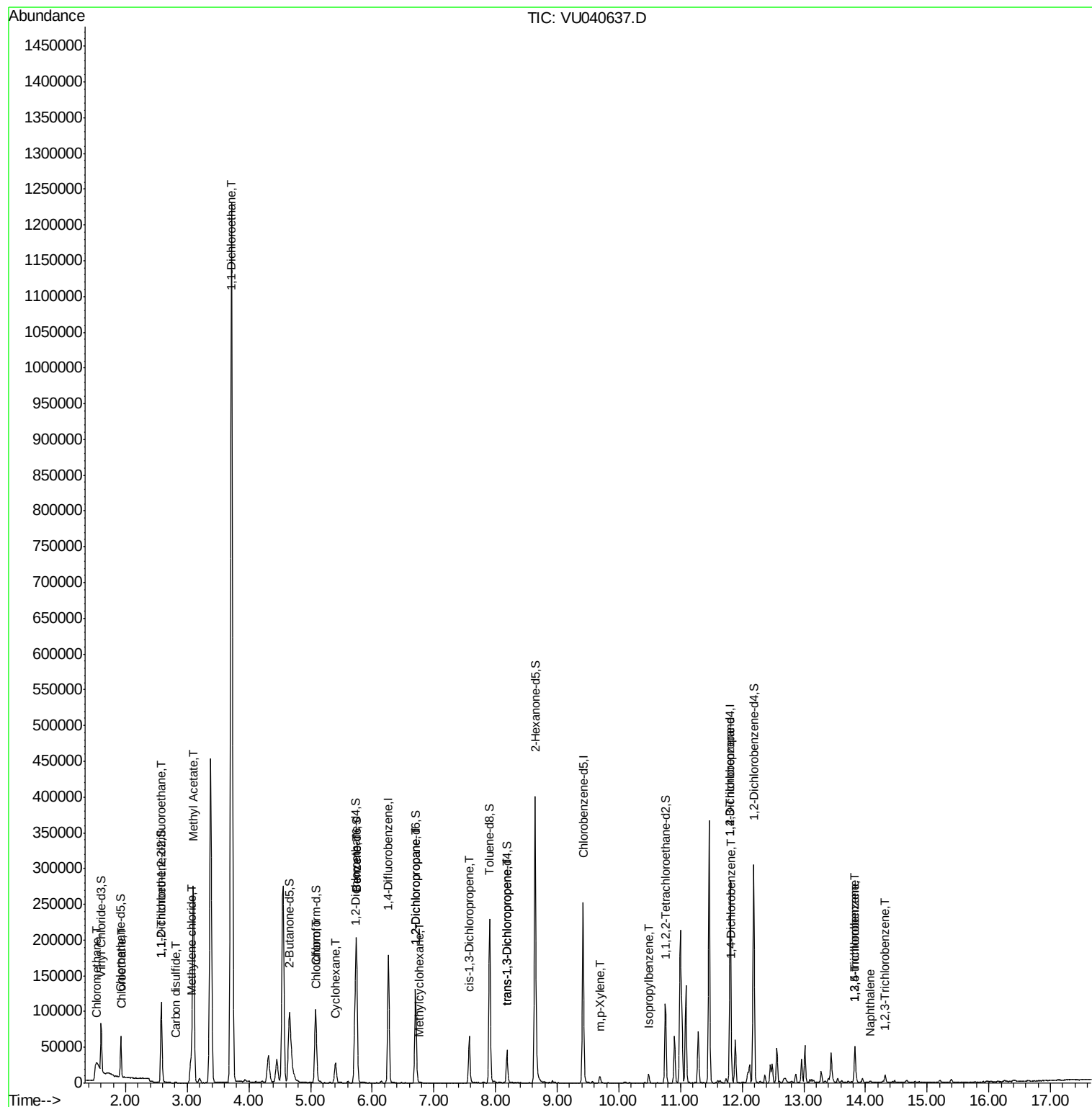
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.83	146	1378	0.058	ug/L	87
67) 1,3,5-Trichlorobenzene	13.83	180	11599	0.707	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	11599	0.915	ug/L	96
69) Naphthalene	14.08	128	2327	0.112	ug/L #	75
70) 1,2,3-Trichlorobenzene	14.32	180	3282	0.279	ug/L	97

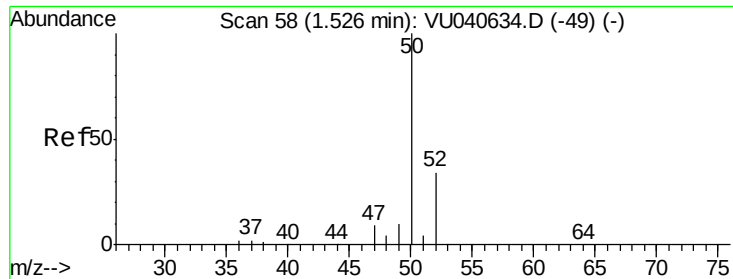
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.140 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.01 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

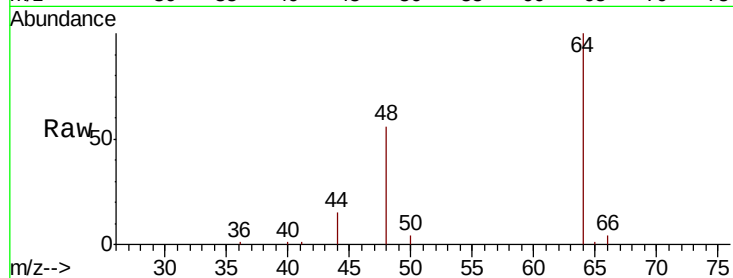
BG3T0DL

Tot Ion: 50 Resp: 1586

Ion Ratio Lower Upper

50 100

52 0.0 21.9 40.7#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0

1.53

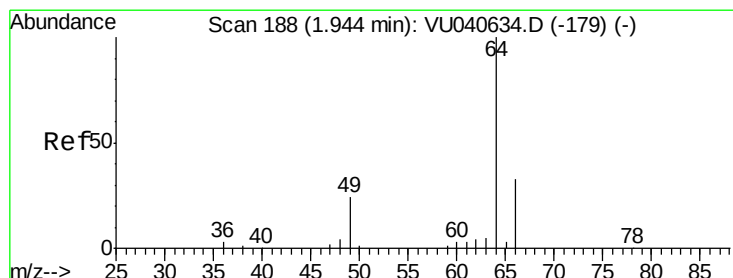
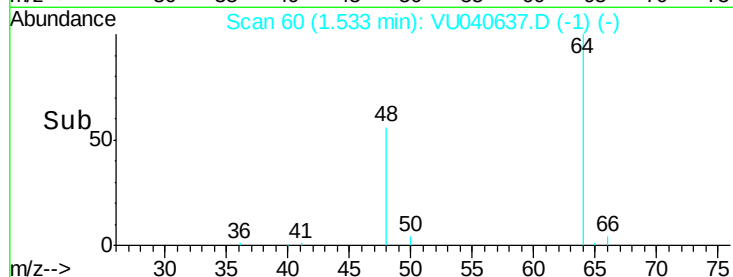
600

400

200

0

Time-->



#8

Chloroethane

Concen: 0.055 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040637.D

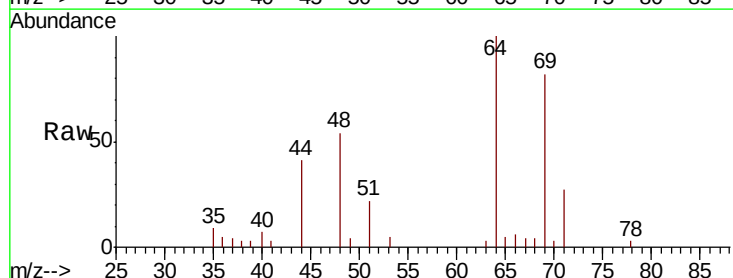
Acq: 10 Oct 2020 16:18

Tgt Ion: 64 Resp: 415

Ion Ratio Lower Upper

64 100

66 6.1 23.3 43.3#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

1.94

4000

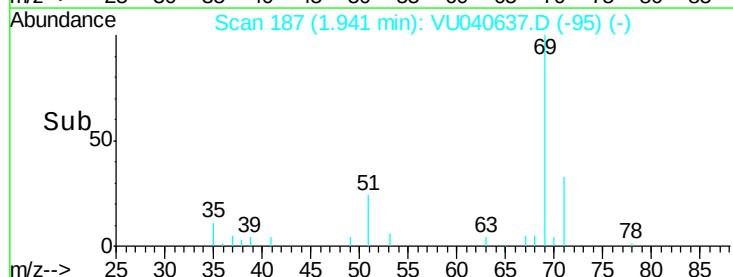
3000

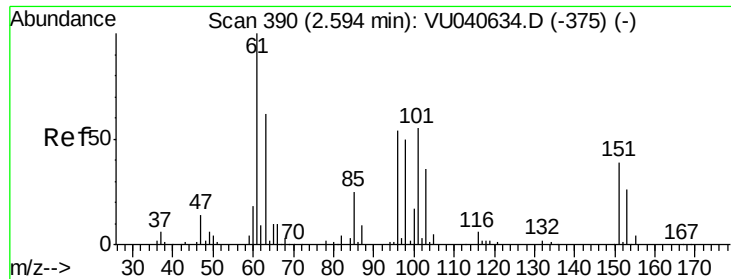
2000

1000

0

Time-->





#10

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

Concen: 0.052 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

BG3T0DL

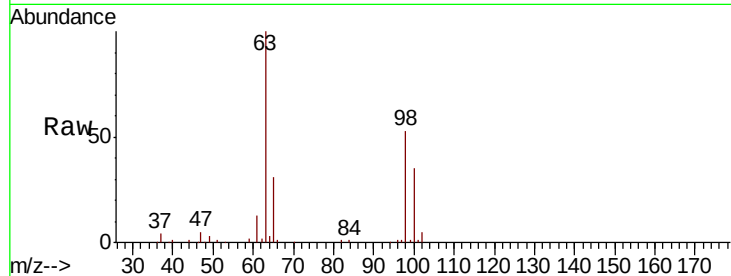
Tot Ion:101 Resp: 577

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

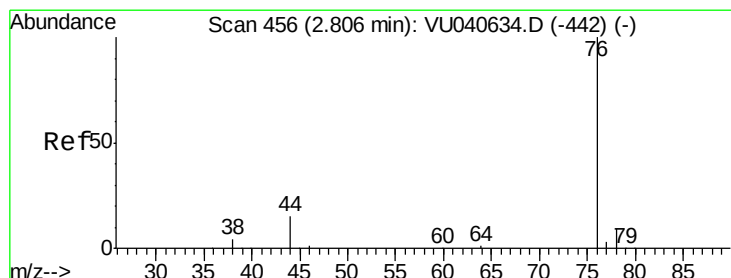
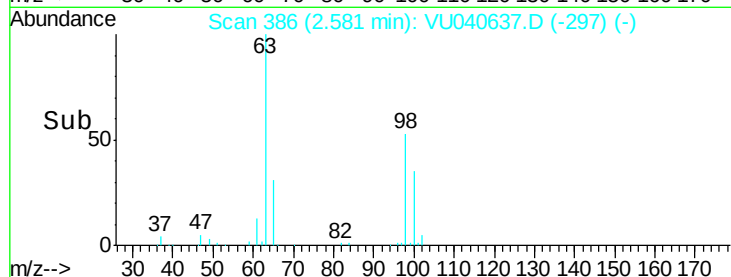
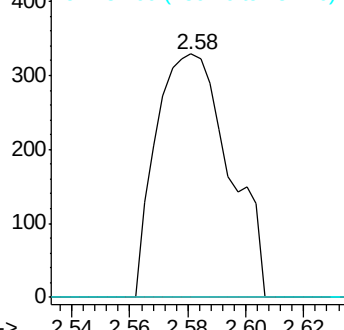
151 0.0 58.0 87.0#



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



#14

Carbon disulfide

Concen: 0.043 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040637.D

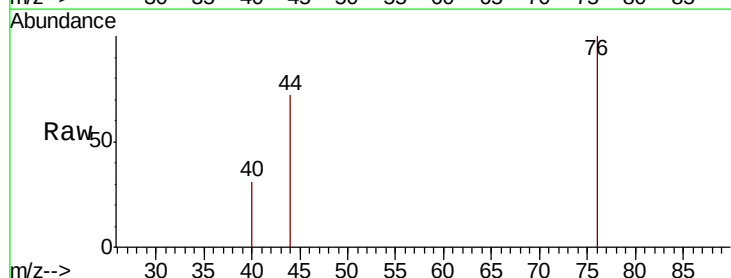
Acq: 10 Oct 2020 16:18

Tgt Ion: 76 Resp: 1149

Ion Ratio Lower Upper

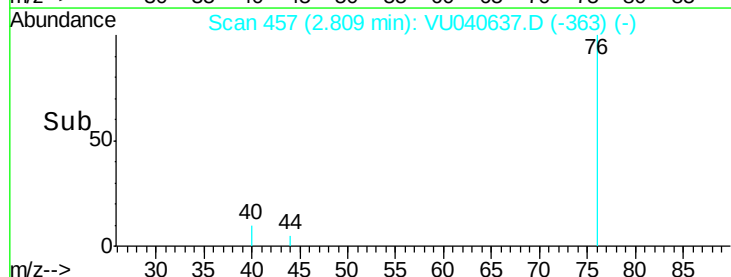
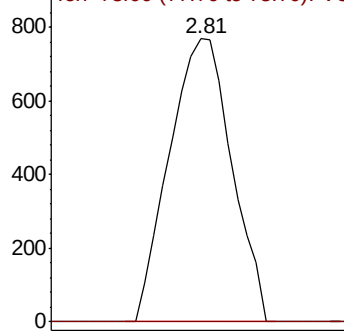
76 100

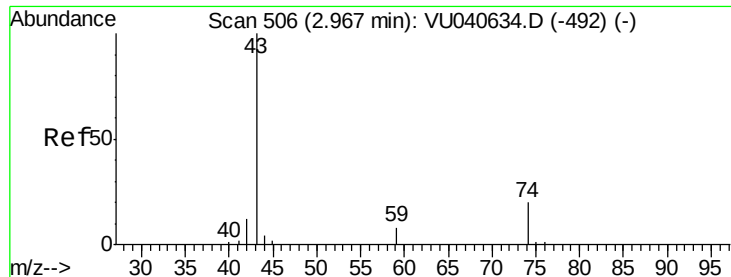
78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 29.998 ug/L

RT: 3.10 min Scan# 547

Delta R.T. 0.13 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

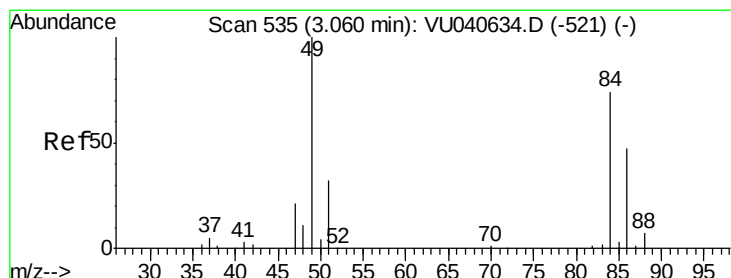
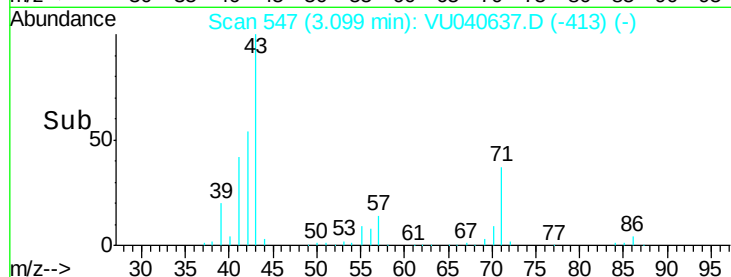
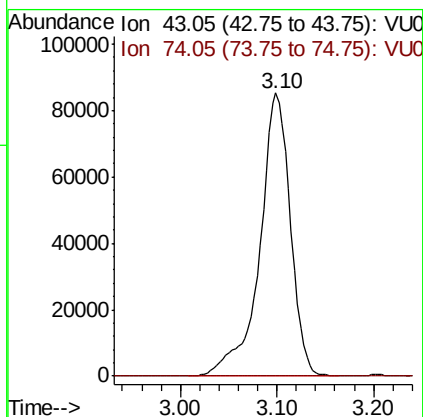
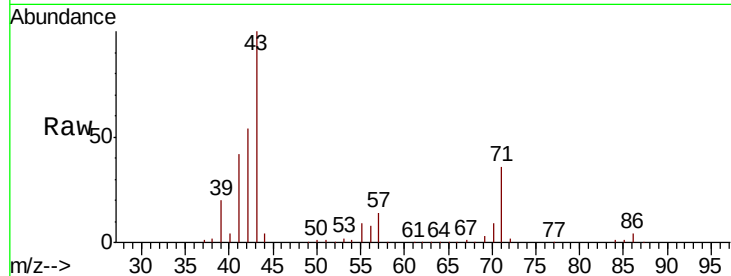
BG3T0DL

Tot Ion: 43 Resp: 187906

Ion Ratio Lower Upper

43 100

74 0.0 16.5 24.7#



#16

Methylene chloride

Concen: 0.218 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

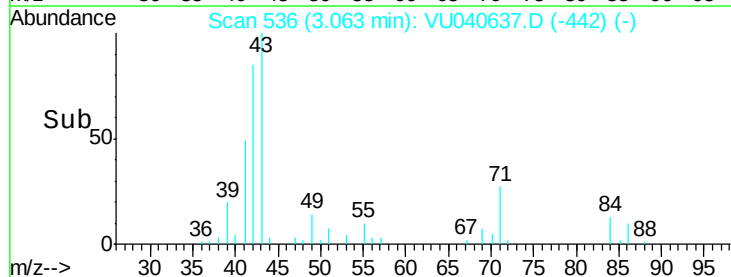
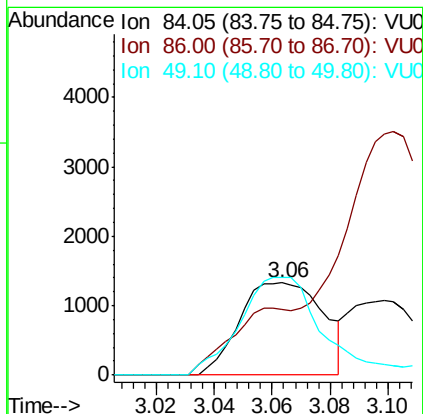
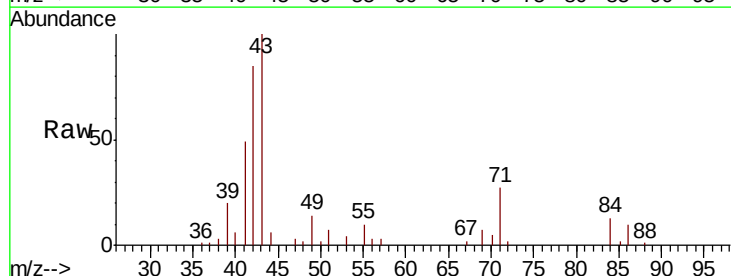
Tgt Ion: 84 Resp: 2663

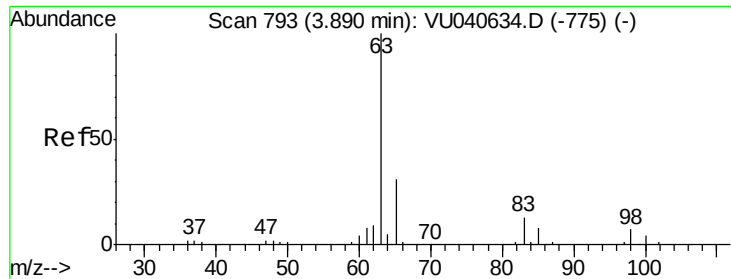
Ion Ratio Lower Upper

84 100

86 70.8 45.4 84.4

49 105.5 99.8 185.3

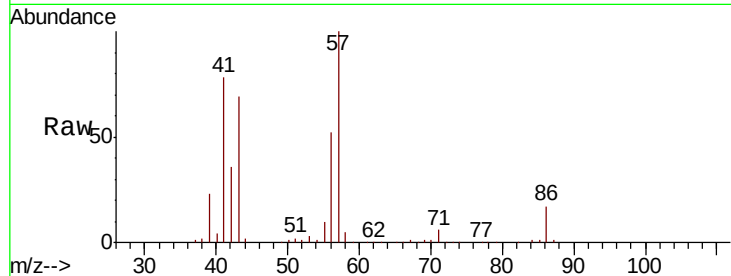




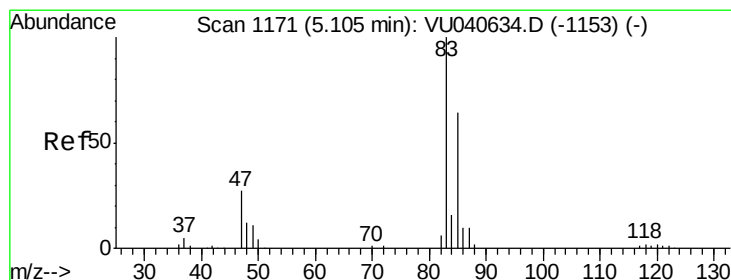
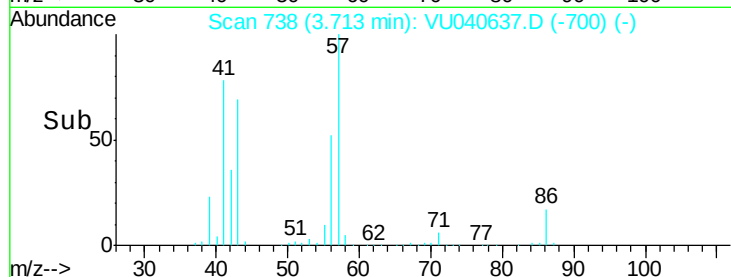
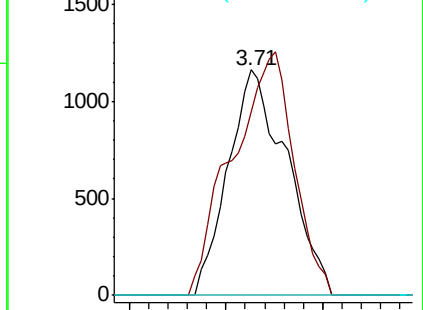
#19
 1,1-Dichloroethane
 Concen: 0.119 ug/L
 RT: 3.71 min Scan# 738
 Delta R.T. -0.18 min
 Lab File: VU040637.D
 Acq: 10 Oct 2020 16:18

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3T0DL

Tot Ion: 63 Resp: 2444
 Ion Ratio Lower Upper
 63 100
 65 81.7 21.9 40.7#
 83 0.0 9.6 17.8#

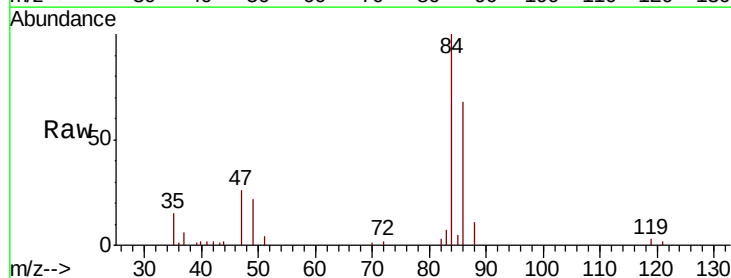


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

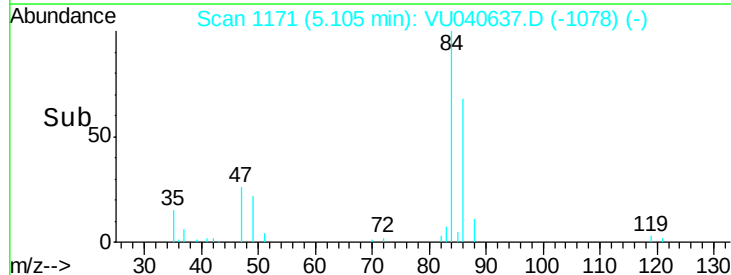
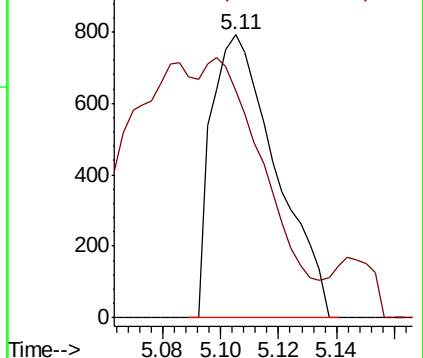


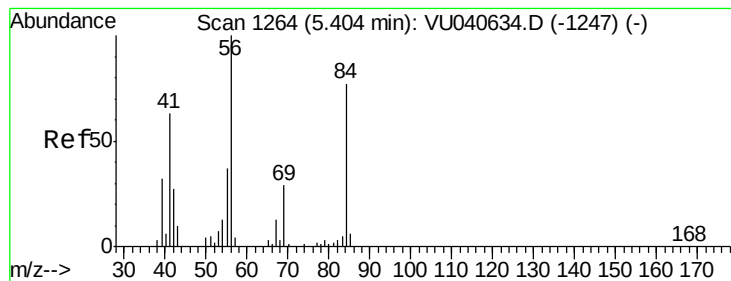
#25
 Chloroform
 Concen: 0.058 ug/L
 RT: 5.11 min Scan# 1171
 Delta R.T. 0.00 min
 Lab File: VU040637.D
 Acq: 10 Oct 2020 16:18

Tgt Ion: 83 Resp: 1225
 Ion Ratio Lower Upper
 83 100
 85 80.2 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU0
 Ion 85.00 (84.70 to 85.70): VU0





#30

Cyclohexane

Concen: 0.801 ug/L

RT: 5.40 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

BG3T0DL

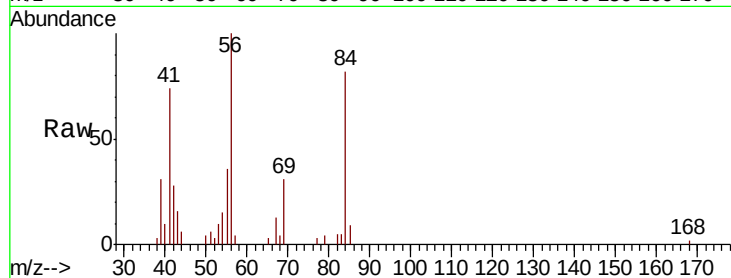
Tot Ion: 56 Resp: 13086

Ion Ratio Lower Upper

56 100

69 28.5 23.8 35.8

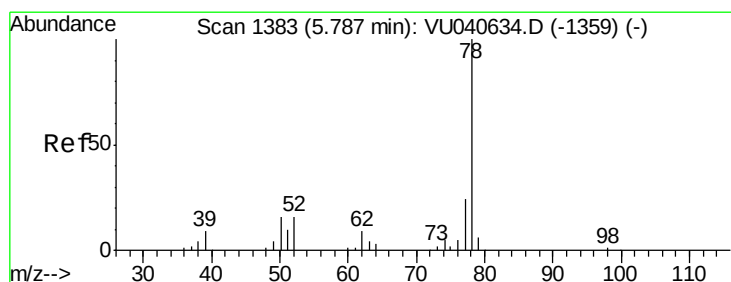
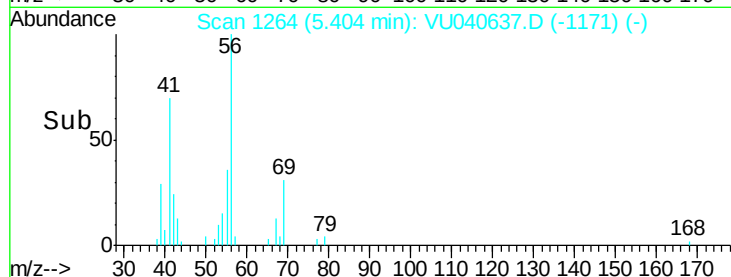
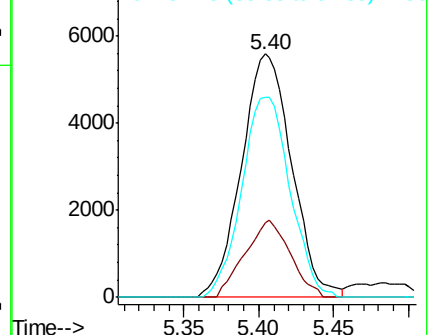
84 79.1 64.0 96.0



Abundance Ion 56.10 (55.80 to 56.80): VU040637.D (-1171) (-)

Ion 69.15 (68.85 to 69.85): VU040637.D (-1171) (-)

Ion 84.15 (83.85 to 84.85): VU040637.D (-1171) (-)



#33

Benzene

Concen: 0.036 ug/L

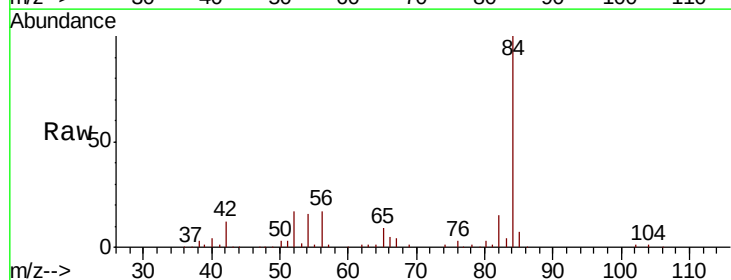
RT: 5.74 min Scan# 1369

Delta R.T. -0.04 min

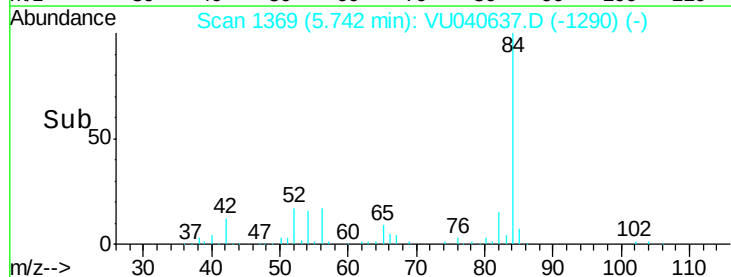
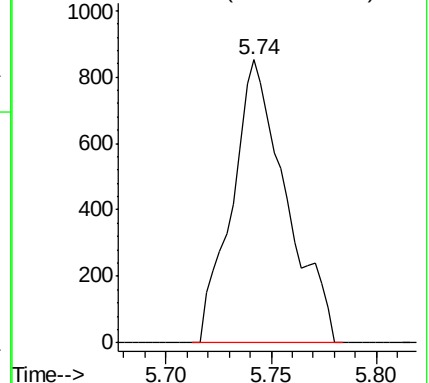
Lab File: VU040637.D

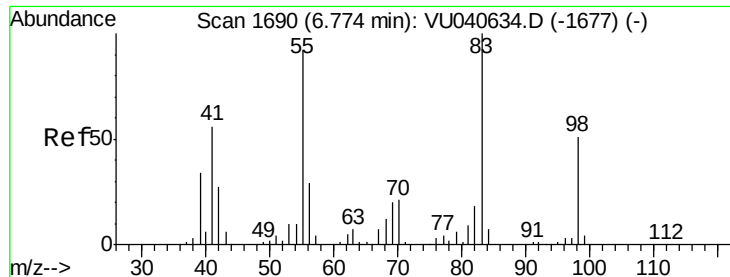
Acq: 10 Oct 2020 16:18

Tgt Ion: 78 Resp: 1517



Abundance Ion 78.10 (77.80 to 78.80): VU040637.D (-1290) (-)

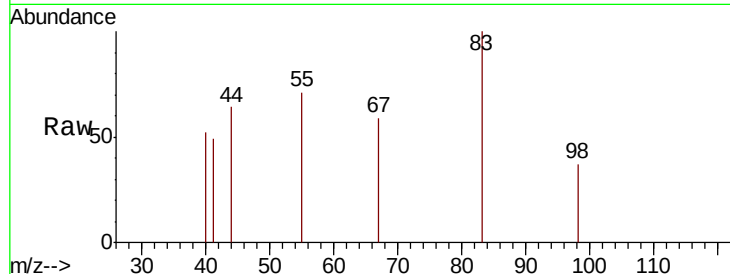




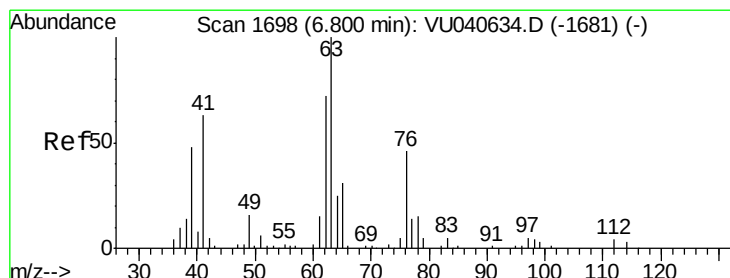
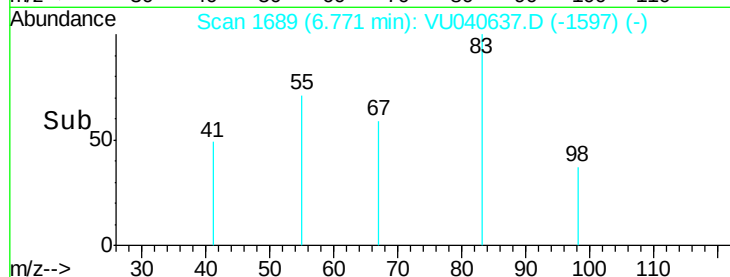
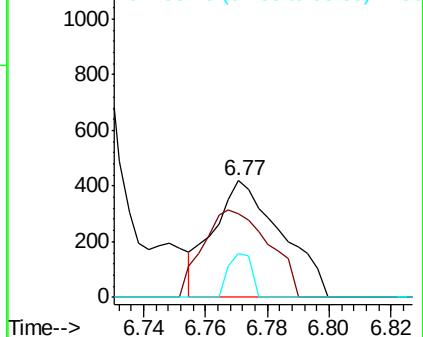
#35
Methylvlcyclohexane
Concen: 0.041 ug/L
RT: 6.77 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VU040637.D
Acq: 10 Oct 2020 16:18

Instrument :
MSVOA_U
ClientSampleId :
BG3T0DL

Tot Ion: 83 Resp: 641
Ion Ratio Lower Upper
83 100
55 72.5 70.7 106.1
98 12.6 38.4 57.6#

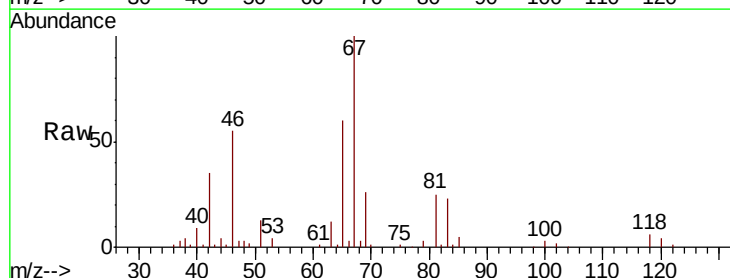


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

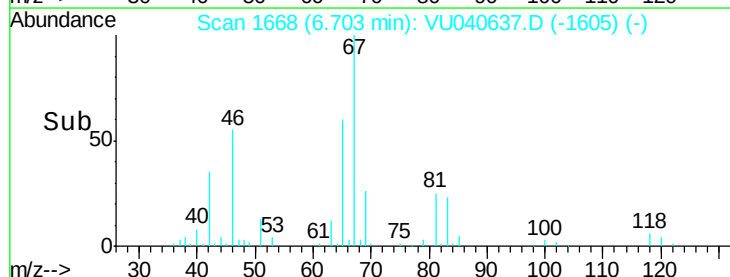
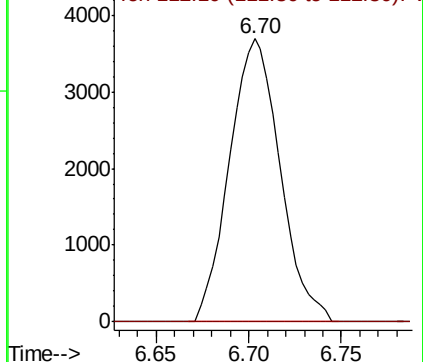


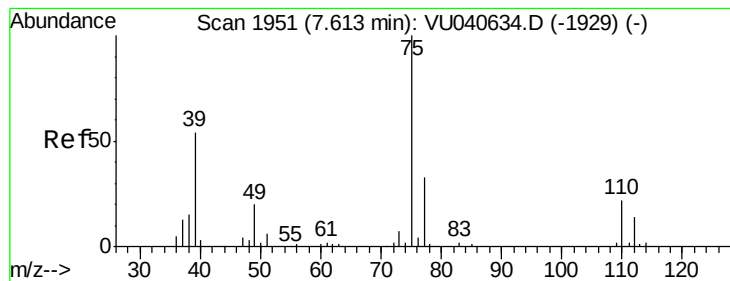
#37
1,2-Dichloropropane
Concen: 0.592 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040637.D
Acq: 10 Oct 2020 16:18

Tgt Ion: 63 Resp: 6990
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.096 ug/L

RT: 7.57 min Scan# 1939

Delta R.T. -0.04 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

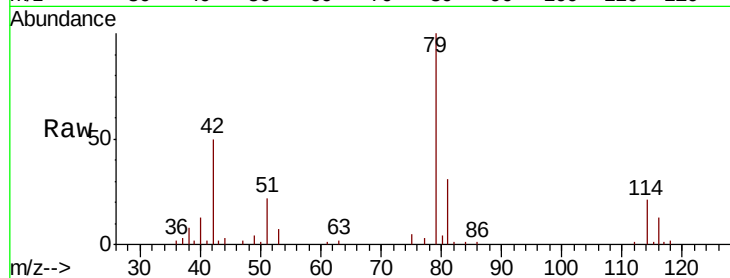
BG3T0DL

Tot Ion: 75 Resp: 1549

Ion Ratio Lower Upper

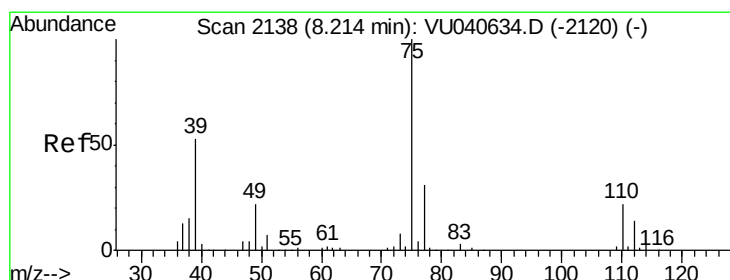
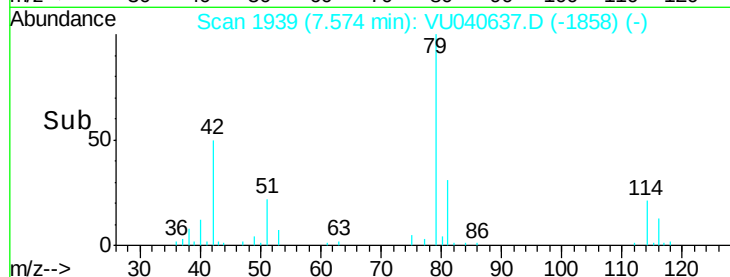
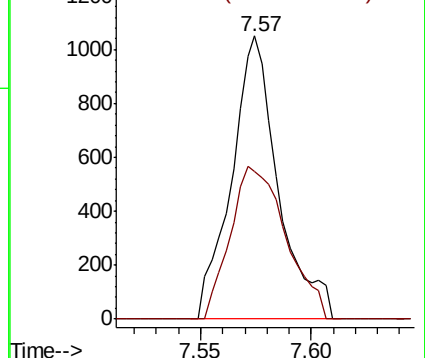
75 100

77 52.1 20.5 38.1#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#44

trans-1,3-Dichloropropene

Concen: 0.077 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040637.D

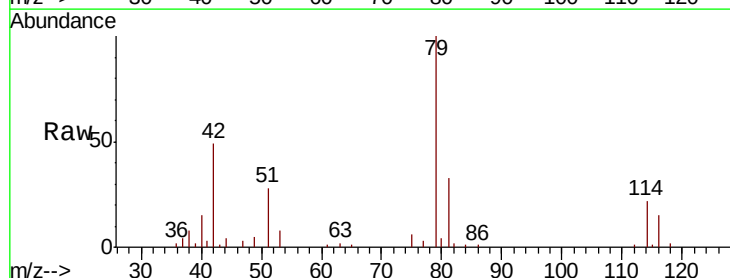
Acq: 10 Oct 2020 16:18

Tgt Ion: 75 Resp: 1140

Ion Ratio Lower Upper

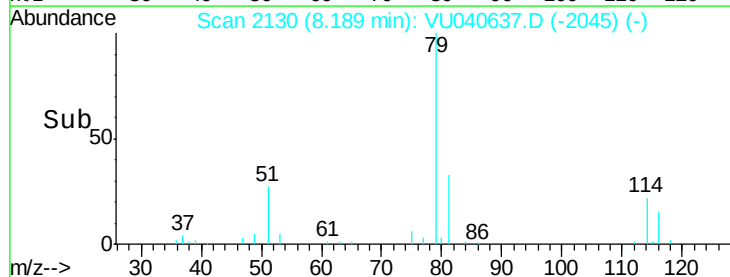
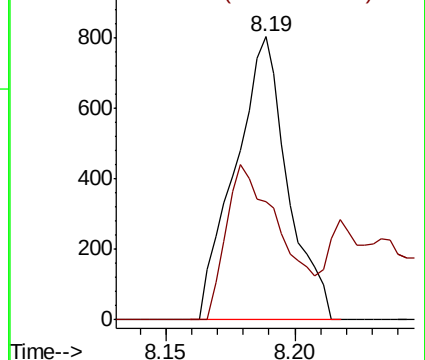
75 100

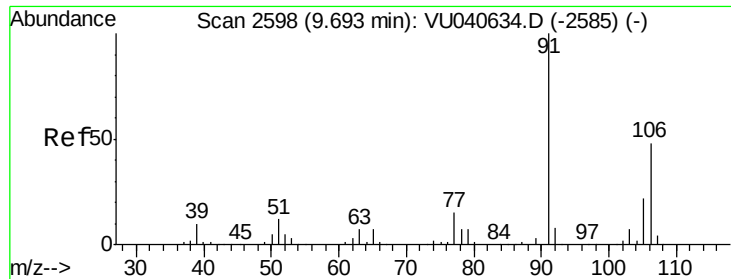
77 41.8 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0





#53

m,p-Xylene

Concen: 0.151 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

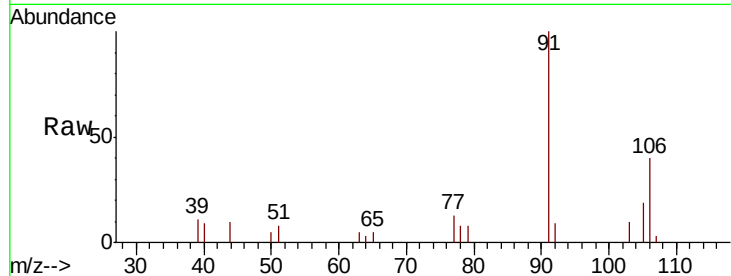
BG3T0DL

Tot Ion:106 Resp: 2578

Ion Ratio Lower Upper

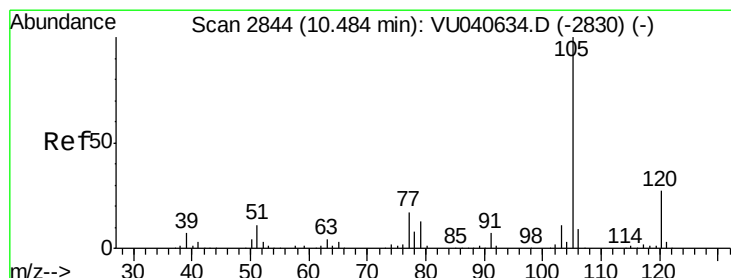
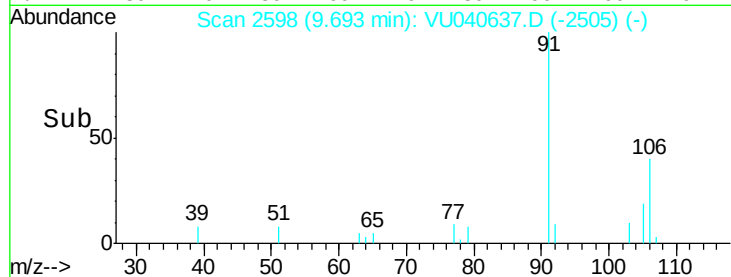
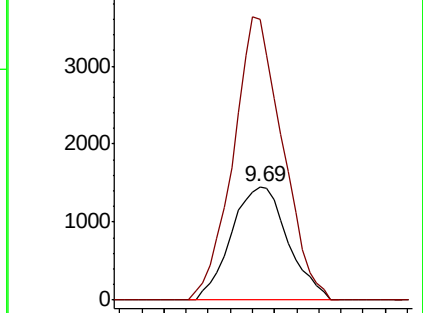
106 100

91 247.4 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.181 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

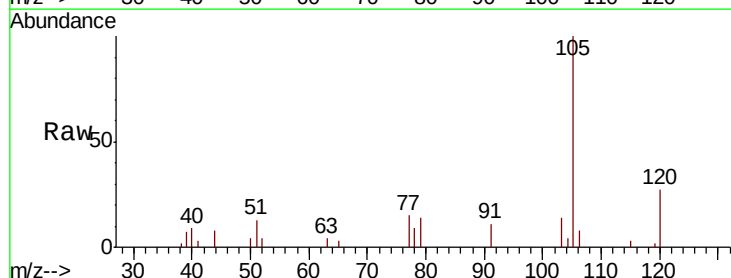
Tgt Ion:105 Resp: 7975

Ion Ratio Lower Upper

105 100

120 24.7 20.6 30.8

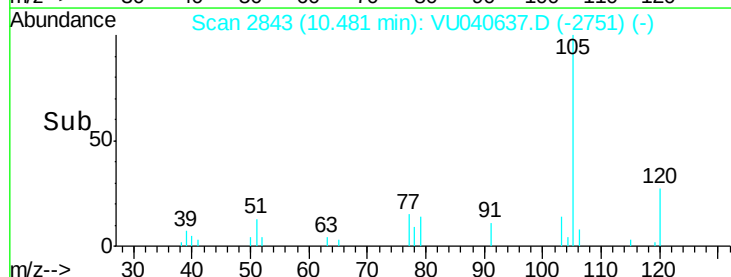
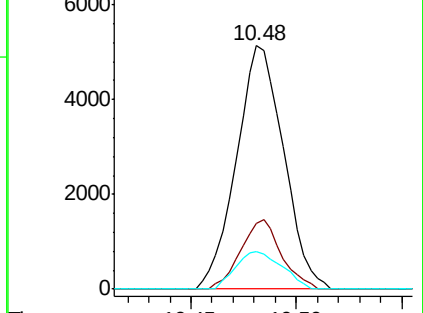
77 15.2 13.8 20.6

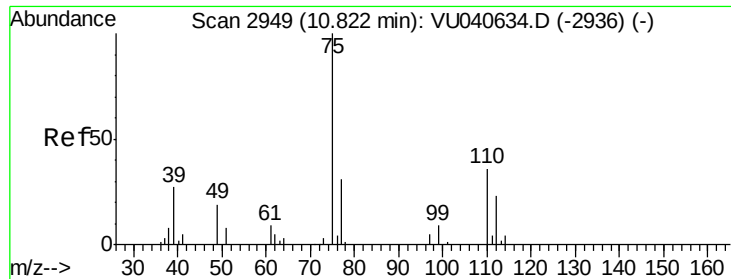


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#59

1,2,3-Trichloropropane

Concen: 1.175 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

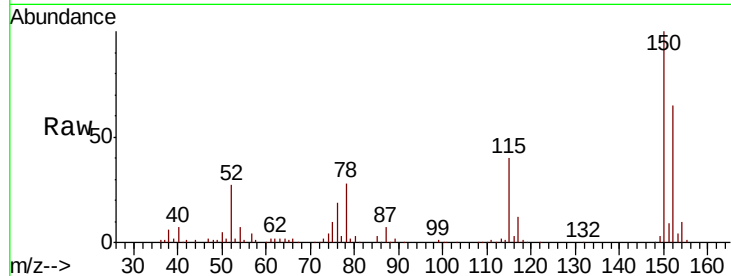
BG3T0DL

Tot Ion: 75 Resp: 10190

Ion Ratio Lower Upper

75 100

77 38.8 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU040637.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU040637.D (-2936) (-)

11.81

6000

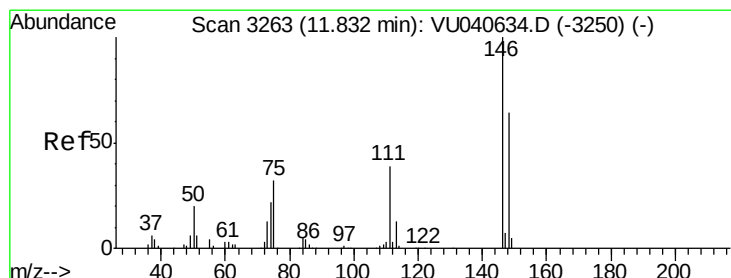
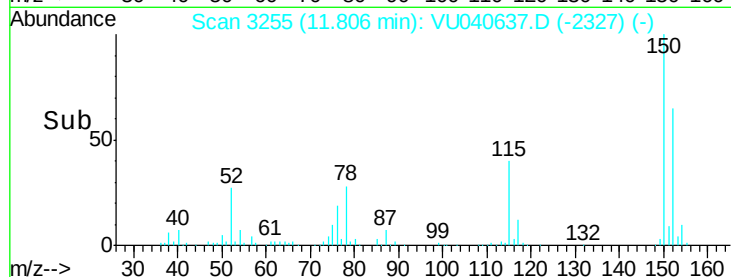
4000

2000

0

11.75 11.80 11.85

Time-->



#63

1,4-Dichlorobenzene

Concen: 0.058 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

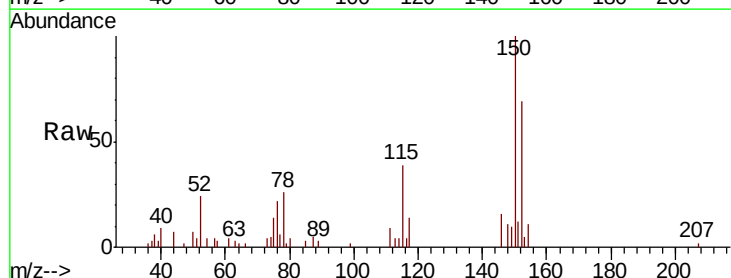
Tgt Ion: 146 Resp: 1378

Ion Ratio Lower Upper

146 100

111 51.8 28.4 52.8

148 69.8 44.0 81.6



Abundance Ion 145.95 (145.65 to 146.65): VU040637.D (-3250) (-)

Ion 111.00 (110.70 to 111.70): VU040637.D (-3250) (-)

Ion 148.00 (147.70 to 148.70): VU040637.D (-3250) (-)

1200

1000

800

600

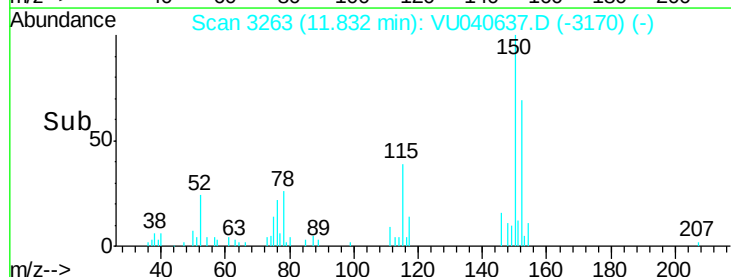
400

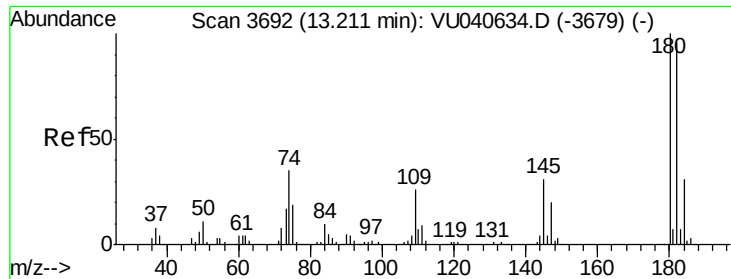
200

0

11.80 11.85

Time-->

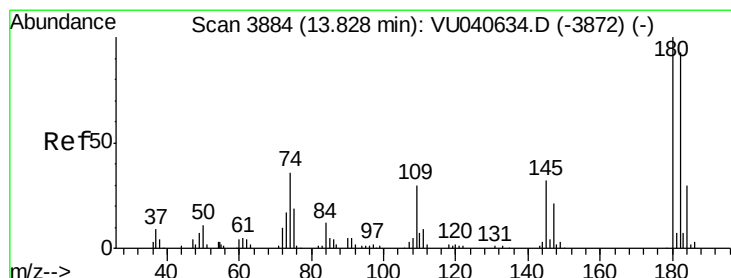
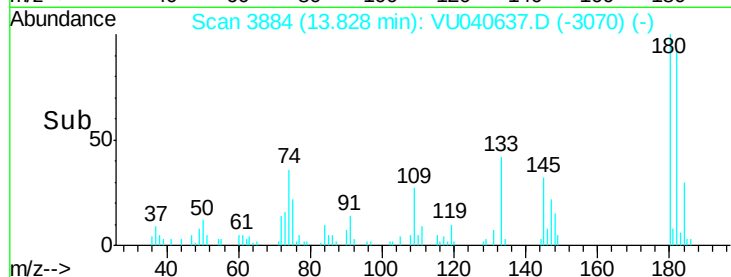
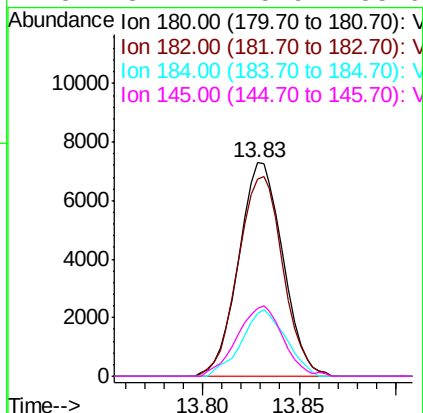
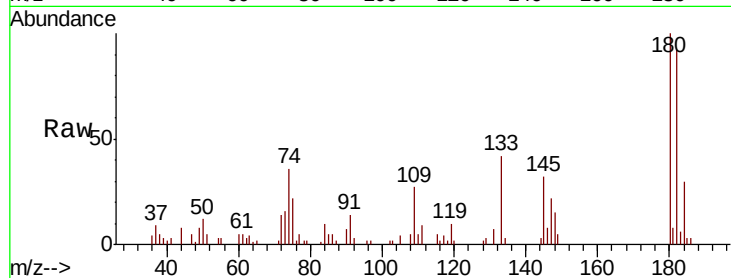




#67
 1,3,5-Trichlorobenzene
 Concen: 0.707 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.62 min
 Lab File: VU040637.D
 Acq: 10 Oct 2020 16:18

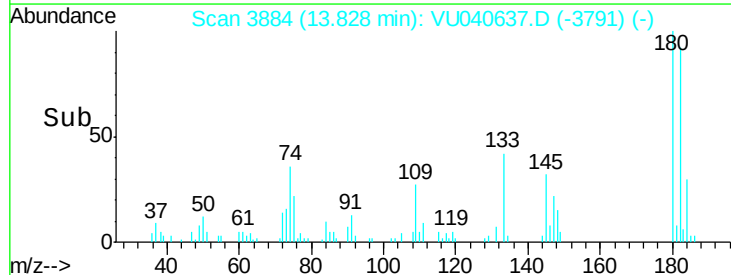
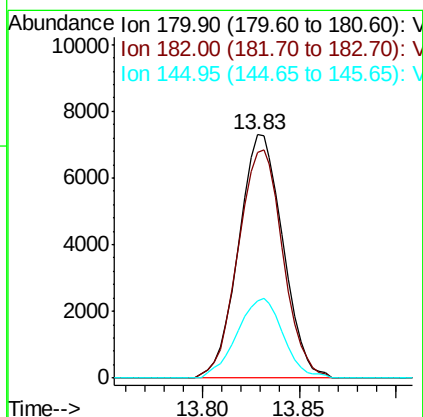
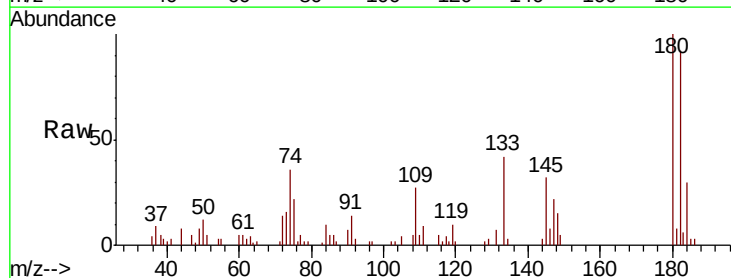
Instrument :
 MSVOA_U
 ClientSampled :
 BG3T0DL

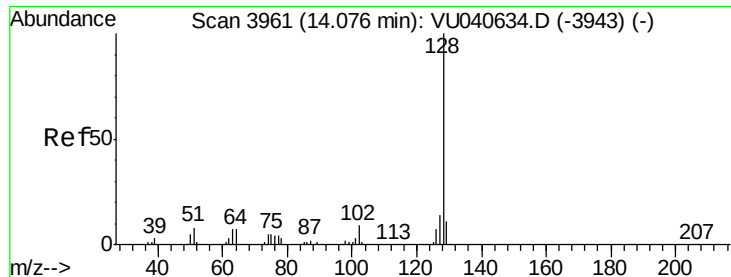
Tot Ion:180	Resp:	11599
Ion	Ratio	Lower Upper
180	100	
182	94.8	77.0 115.4
184	31.2	24.5 36.7
145	34.1	25.9 38.9



#68
 1,2,4-trichlorobenzene
 Concen: 0.915 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU040637.D
 Acq: 10 Oct 2020 16:18

Tgt Ion:180	Resp:	11599
Ion	Ratio	Lower Upper
180	100	
182	94.8	78.8 118.2
145	34.1	26.1 39.1





#69

Naphthalene

Concen: 0.112 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Instrument :

MSVOA_U

ClientSampleId :

BG3T0DL

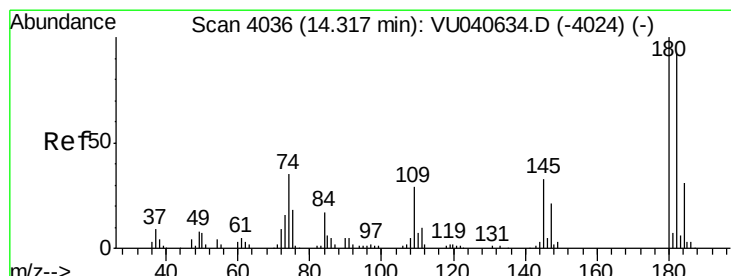
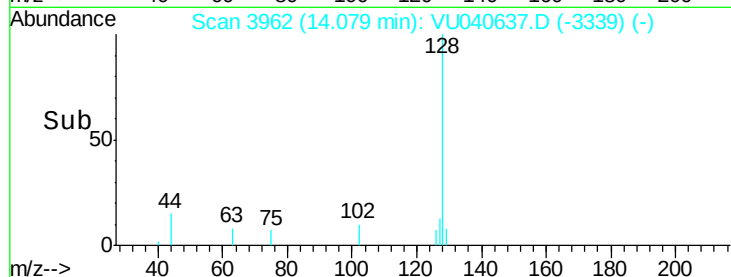
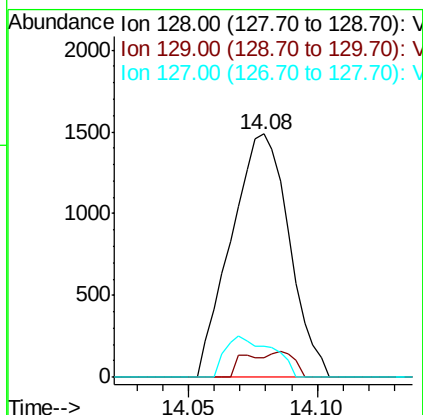
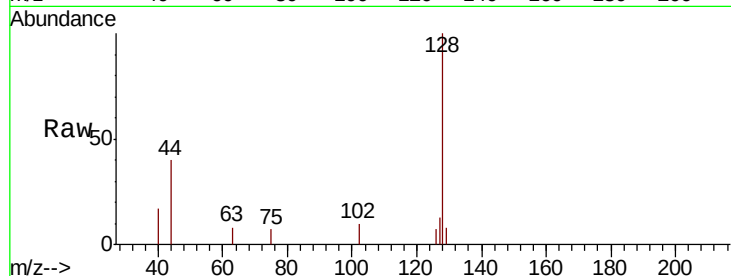
Tot Ion:128 Resp: 2327

Ion Ratio Lower Upper

128 100

129 4.6 9.0 13.4#

127 0.0 10.2 15.4#



#70

1,2,3-Trichlorobenzene

Concen: 0.279 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU040637.D

Acq: 10 Oct 2020 16:18

Tgt Ion:180 Resp: 3282

Ion Ratio Lower Upper

180 100

182 91.1 75.8 113.8

145 35.3 27.4 41.2

