

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U100820\
 Data File : VU040567.D
 Acq On : 08 Oct 2020 17:33
 Operator : SY/MD
 Sample : L4240-08DL 40X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL 20X

Quant Time: Oct 09 02:04:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 09 01:55:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	145520	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	143095	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	73244	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	58097	4.82	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	96.40%
7) Chloroethane-d5	1.92	69	45002	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.58	63	85631	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.66	46	210030	54.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.86%
24) Chloroform-d	5.08	84	100654	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.72	65	61887	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.00%
32) Benzene-d6	5.74	84	195762	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.40%
36) 1,2-Dichloropropane-d6	6.70	67	64189	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.20%
41) Toluene-d8	7.91	98	163914	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	8.19	79	26590	4.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.00%
46) 2-Hexanone-d5	8.64	63	144352	51.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.22%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	55471	4.83	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	69549	5.12	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	453	0.035	ug/L #	1
8) Chloroethane	1.94	64	977	0.118	ug/L #	53
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	647	0.053	ug/L #	20
15) Methyl Acetate	3.10	43	867839	127.067	ug/L #	56
16) Methylene chloride	3.06	84	9712	0.729	ug/L #	66
19) 1,1-Dichloroethane	3.89	63	1236	0.055	ug/L #	61
21) 2-Butanone	4.55	43	159267	34.155	ug/L #	53
29) 1,1,1-Trichloroethane	5.34	97	2298	0.120	ug/L	87
30) Cyclohexane	5.41	56	78399	4.424	ug/L	98
35) Methylcyclohexane	6.76	83	527	0.031	ug/L #	3
37) 1,2-Dichloropropane	6.70	63	6912	0.540	ug/L #	87
39) cis-1,3-Dichloropropene	7.57	75	1806	0.103	ug/L #	54
42) Toluene	7.98	91	11184	0.239	ug/L	94
44) trans-1,3-Dichloropropene	8.19	75	941	0.058	ug/L #	32
48) 2-Hexanone	8.64	43	18748	2.466	ug/L #	68
52) Ethylbenzene	9.57	91	4005	0.079	ug/L	84
53) m,p-Xylene	9.69	106	3191	0.173	ug/L	93

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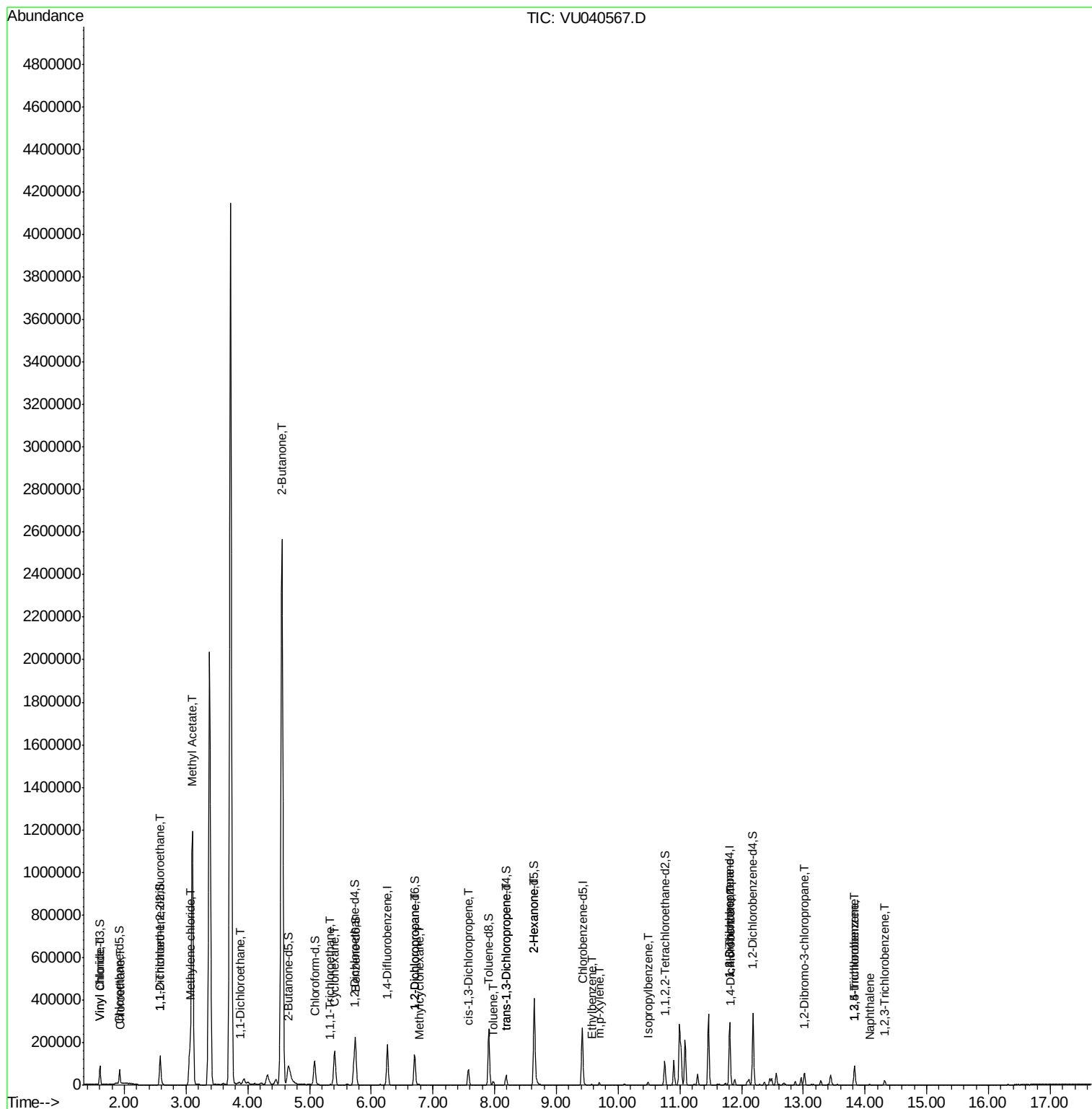
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) Isopropylbenzene	10.48	105	7615	0.159	ug/L	95
59) 1,2,3-Trichloropropane	11.81	75	10513	1.117	ug/L	92
63) 1,4-Dichlorobenzene	11.83	146	1759	0.071	ug/L	91
66) 1,2-Dibromo-3-chloropropan	13.02	75	270	0.132	ug/L #	9
67) 1,3,5-Trichlorobenzene	13.83	180	25348	1.490	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	25348	1.929	ug/L	98
69) Naphthalene	14.07	128	2217	0.103	ug/L #	92
70) 1,2,3-Trichlorobenzene	14.32	180	5550	0.455	ug/L	99

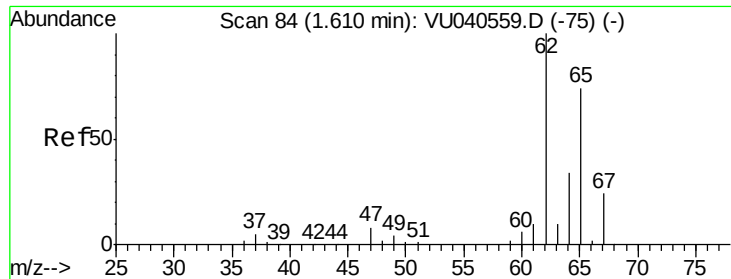
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.035 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

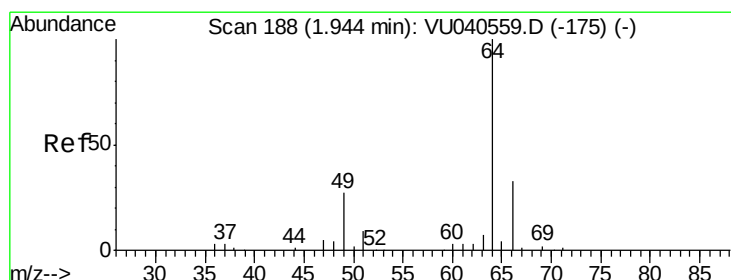
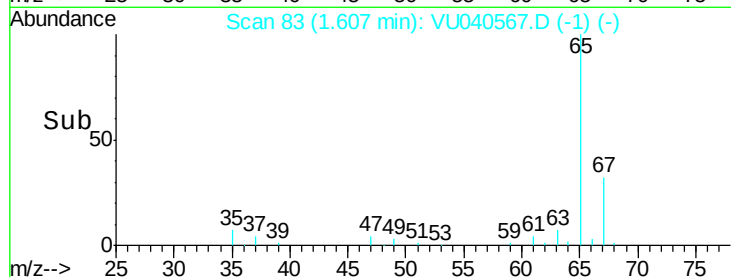
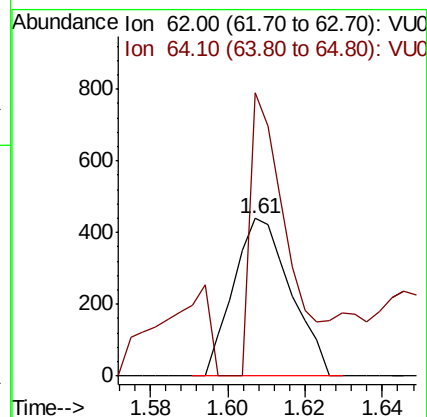
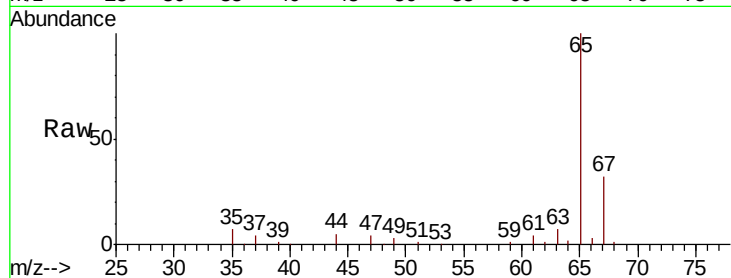
BG3S5DL 20X

Tot Ion: 62 Resp: 453

Ion Ratio Lower Upper

62 100

64 179.7 23.7 44.1#



#8

Chloroethane

Concen: 0.118 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU040567.D

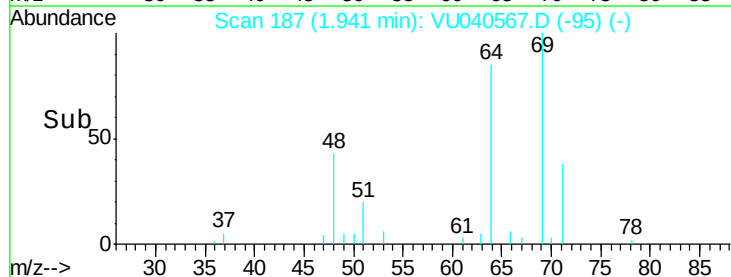
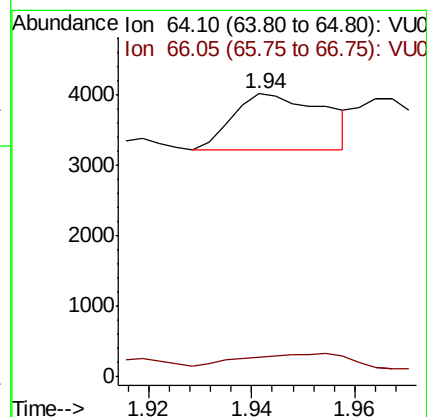
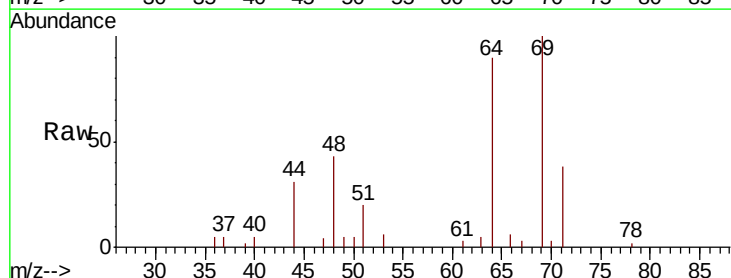
Acq: 08 Oct 2020 17:33

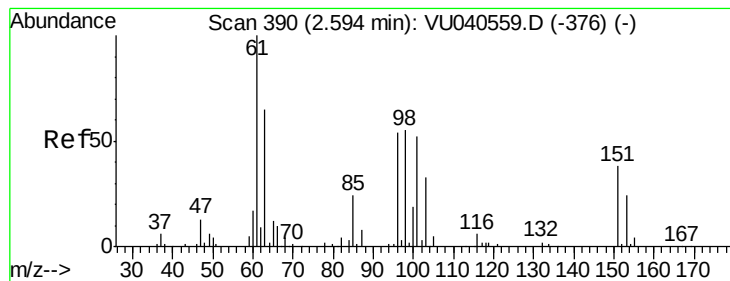
Tgt Ion: 64 Resp: 977

Ion Ratio Lower Upper

64 100

66 6.8 23.3 43.3#





#10

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

Concen: 0.053 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

BG3S5DL 20X

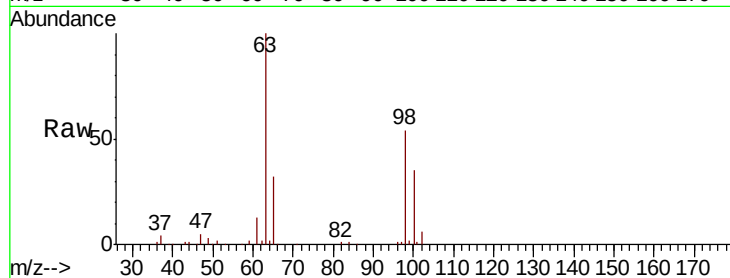
Tot Ion:101 Resp: 647

Ion Ratio Lower Upper

101 100

85 0.0 36.7 55.1#

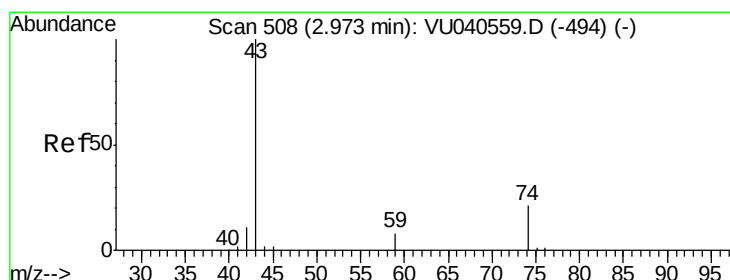
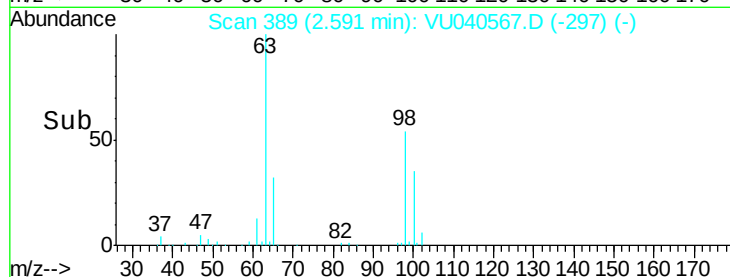
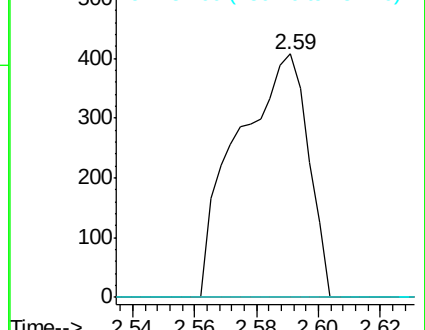
151 0.0 58.0 87.0#



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



#15

Methyl Acetate

Concen: 127.067 ug/L

RT: 3.10 min Scan# 548

Delta R.T. 0.13 min

Lab File: VU040567.D

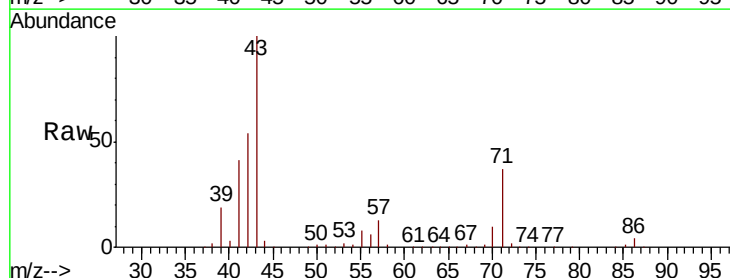
Acq: 08 Oct 2020 17:33

Tgt Ion: 43 Resp: 867839

Ion Ratio Lower Upper

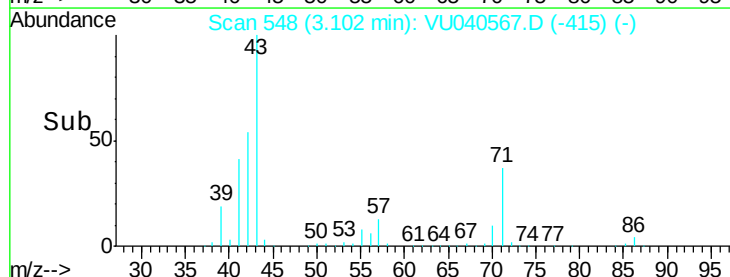
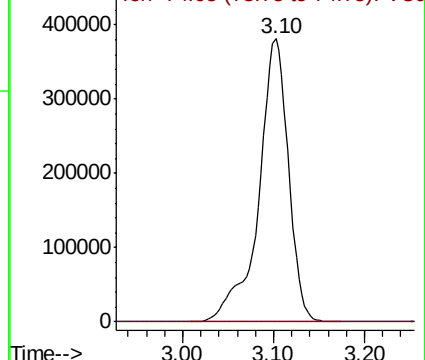
43 100

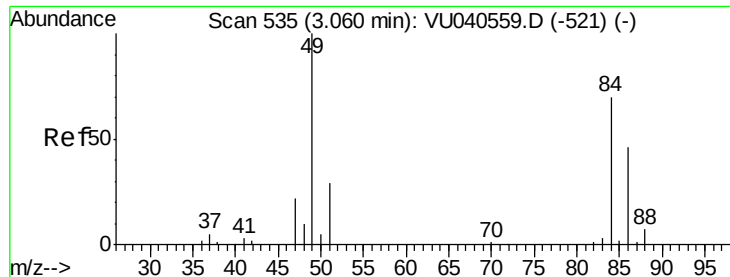
74 0.0 16.5 24.7#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

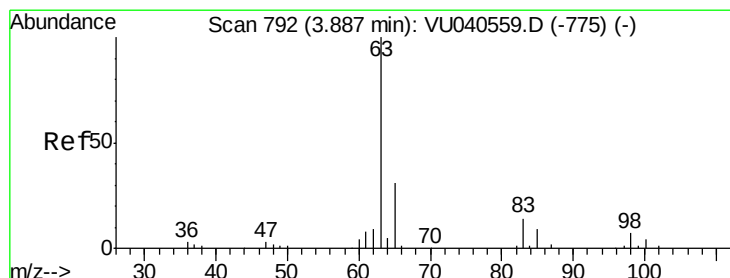
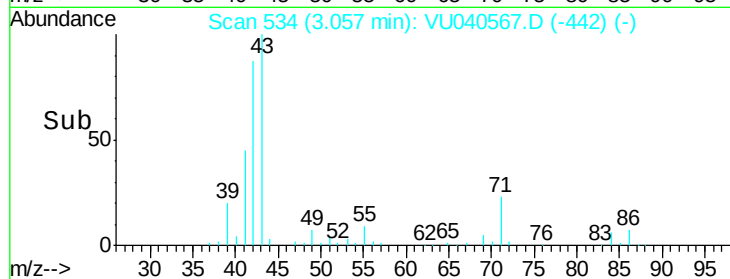
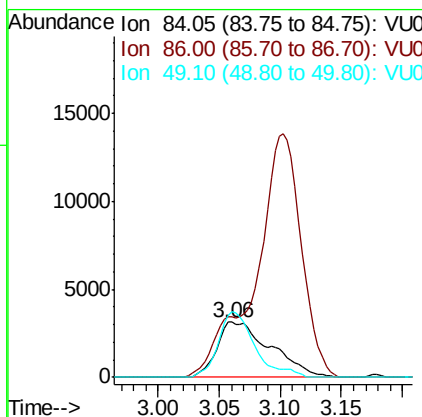
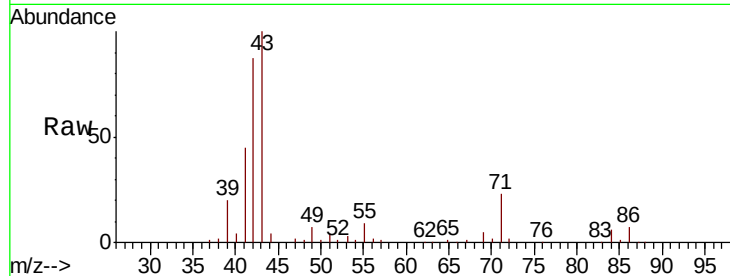




#16
Methylene chloride
Concen: 0.729 ug/L
RT: 3.06 min Scan# 534
Delta R.T. -0.00 min
Lab File: VU040567.D
Acq: 08 Oct 2020 17:33

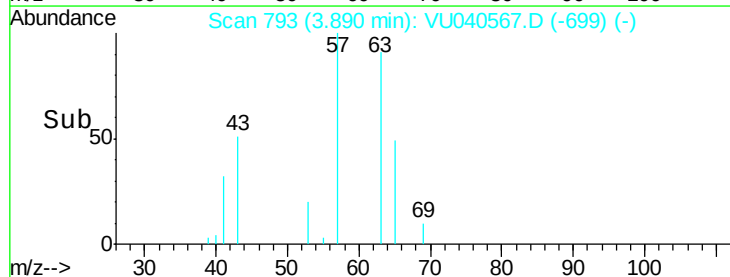
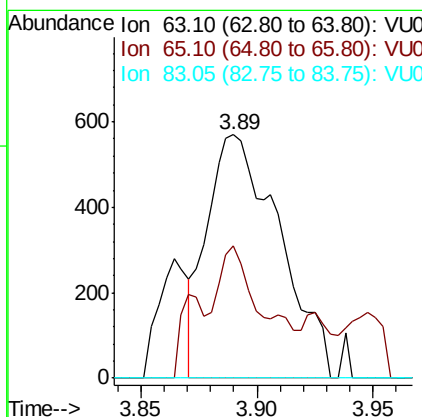
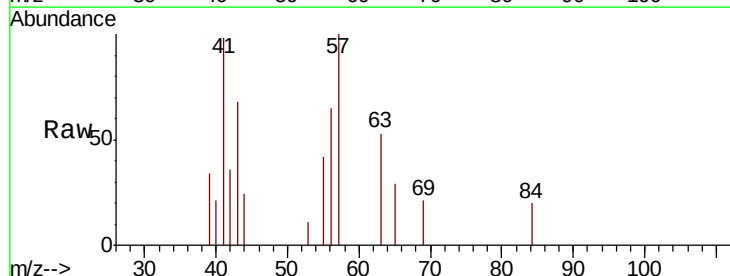
Instrument :
MSVOA_U
ClientSampleId :
BG3S5DL 20X

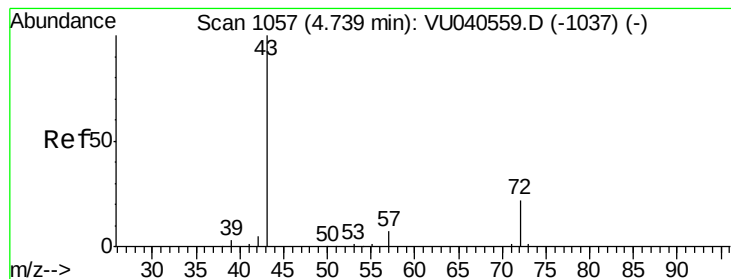
Tot Ion: 84 Resp: 9712
Ion Ratio Lower Upper
84 100
86 108.9 45.4 84.4#
49 113.2 99.8 185.3



#19
1,1-Dichloroethane
Concen: 0.055 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU040567.D
Acq: 08 Oct 2020 17:33

Tgt Ion: 63 Resp: 1236
Ion Ratio Lower Upper
63 100
65 54.2 21.9 40.7#
83 0.0 9.6 17.8#





#21

2-Butanone

Concen: 34.155 ug/L

RT: 4.55 min Scan# 999

Delta R.T. -0.19 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

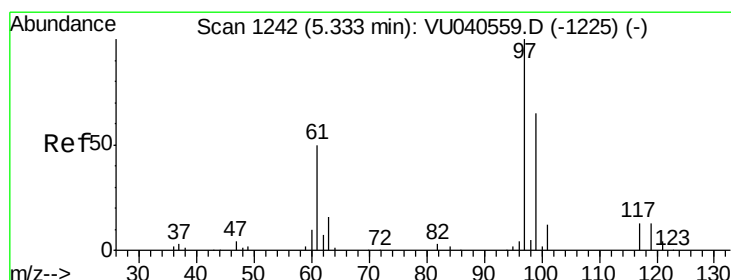
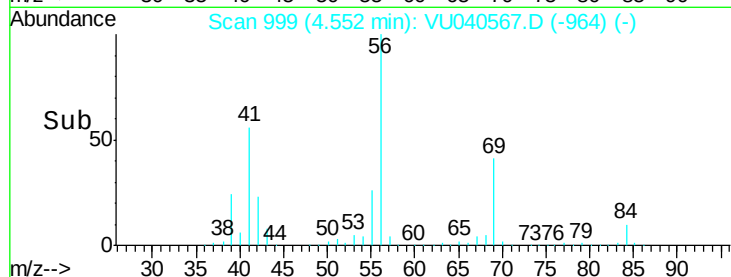
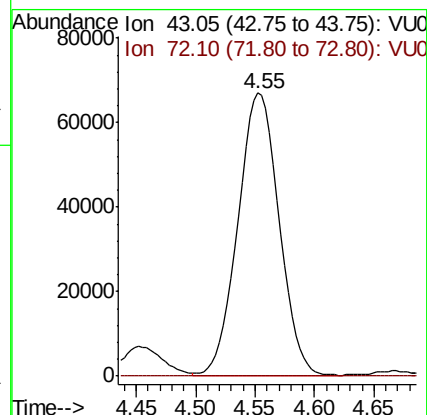
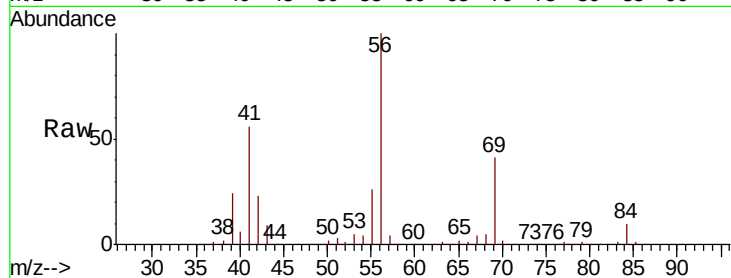
BG3S5DL 20X

Tot Ion: 43 Resp: 159267

Ion Ratio Lower Upper

43 100

72 0.0 11.4 34.2#



#29

1,1,1-Trichloroethane

Concen: 0.120 ug/L

RT: 5.34 min Scan# 1243

Delta R.T. 0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

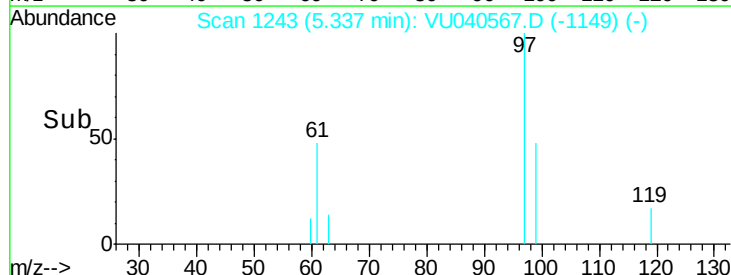
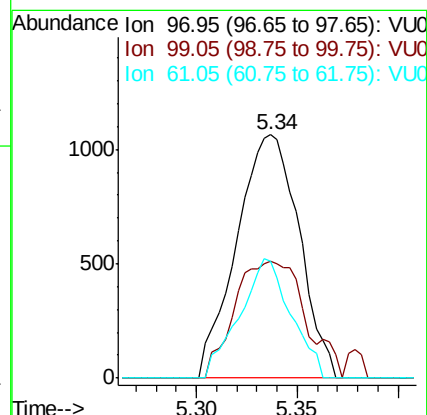
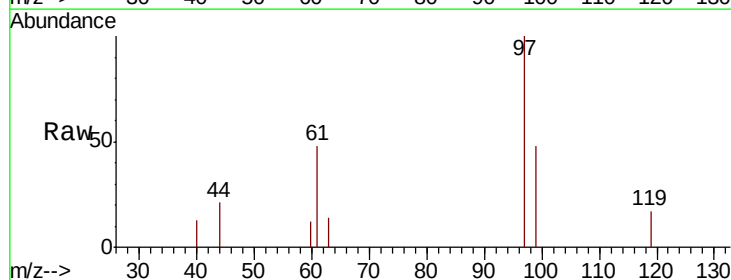
Tgt Ion: 97 Resp: 2298

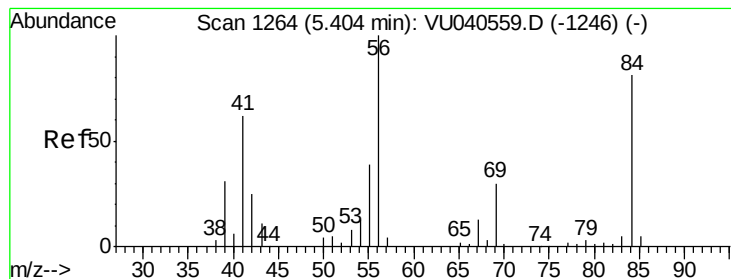
Ion Ratio Lower Upper

97 100

99 54.1 51.3 76.9

61 40.2 39.4 59.2





#30

Cyclohexane

Concen: 4.424 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU040567.D

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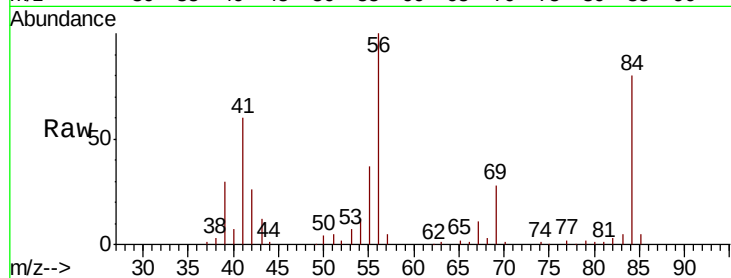
Tot Ion: 56 Resp: 78399

Ion Ratio Lower Upper

56 100

69 28.3 23.8 35.8

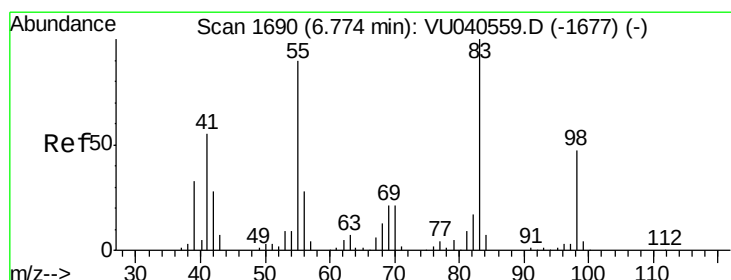
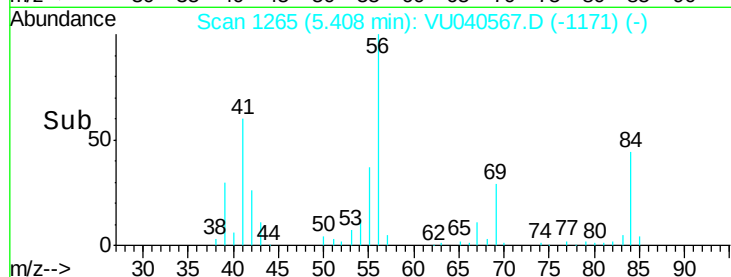
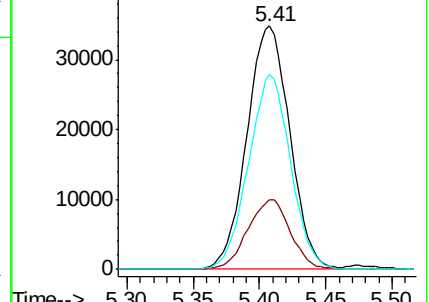
84 77.9 64.0 96.0



Abundance Ion 56.10 (55.80 to 56.80): VU040559.D (-1246) (-)

Ion 69.15 (68.85 to 69.85): VU040559.D (-1246) (-)

Ion 84.15 (83.85 to 84.85): VU040559.D (-1246) (-)



#35

Methylcyclohexane

Concen: 0.031 ug/L

RT: 6.76 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

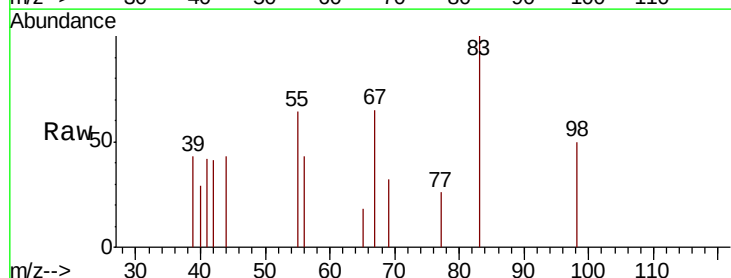
Tgt Ion: 83 Resp: 527

Ion Ratio Lower Upper

83 100

55 200.8 70.7 106.1#

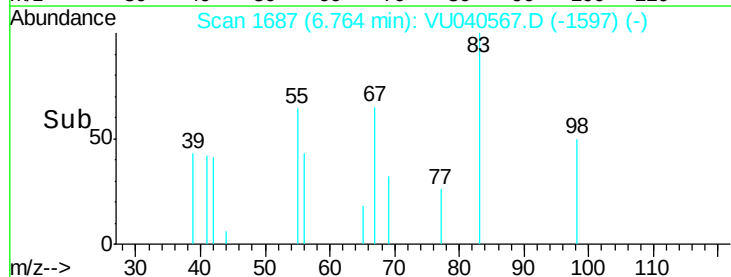
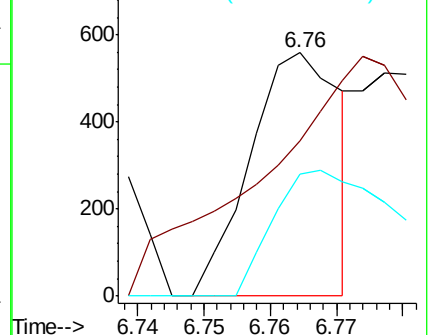
98 83.9 38.4 57.6#

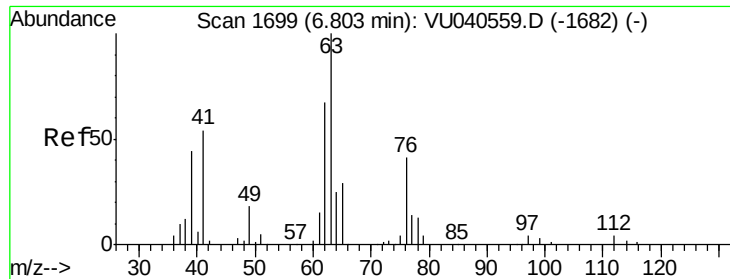


Abundance Ion 83.15 (82.85 to 83.85): VU040559.D (-1677) (-)

Ion 55.10 (54.80 to 55.80): VU040559.D (-1677) (-)

Ion 98.15 (97.85 to 98.85): VU040559.D (-1677) (-)

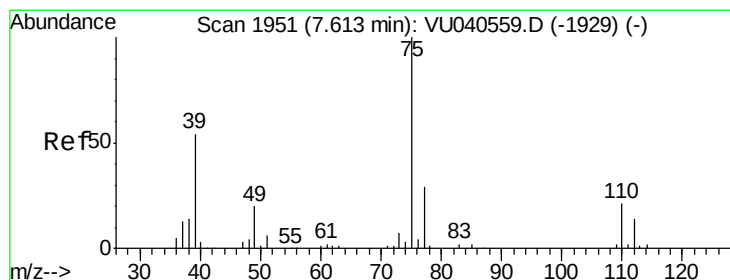
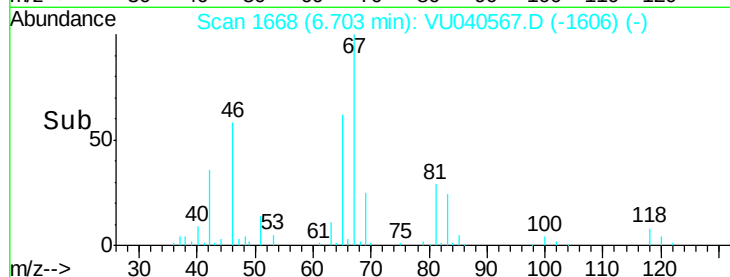
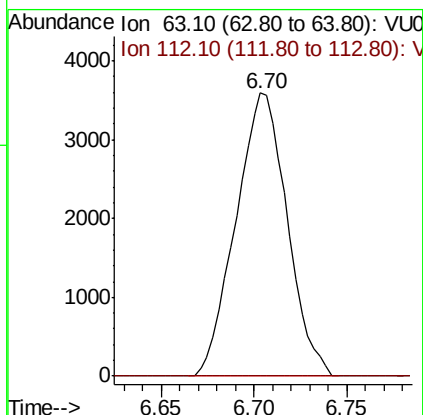
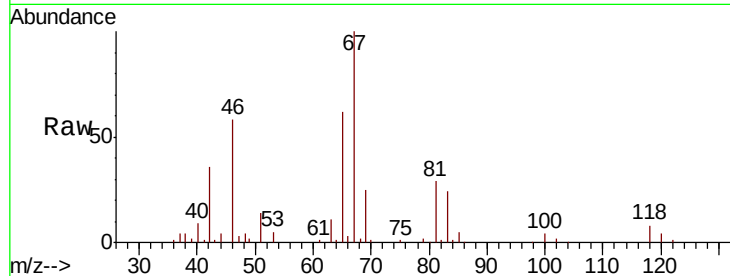




#37
 1,2-Dichloropropane
 Concen: 0.540 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

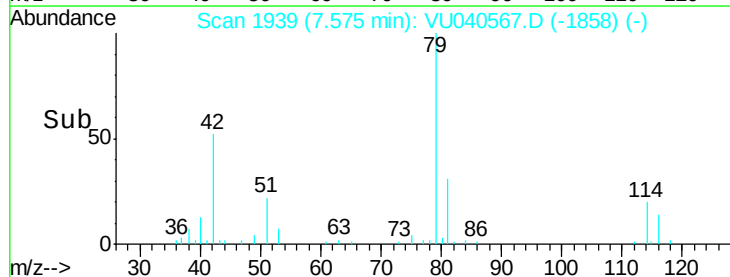
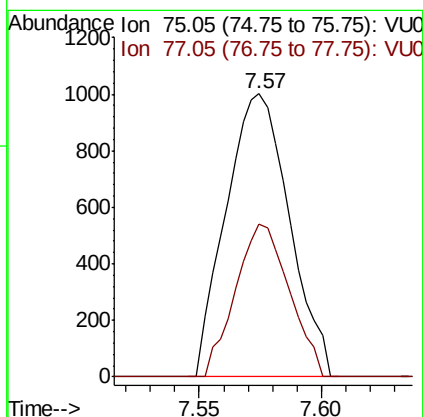
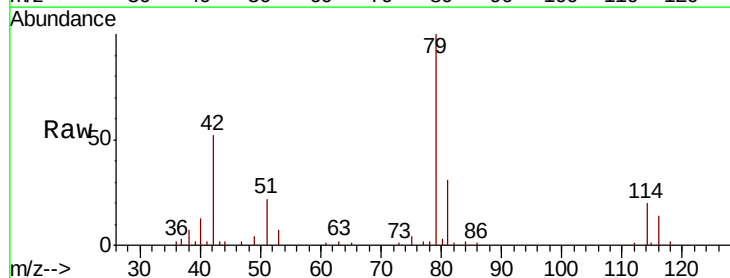
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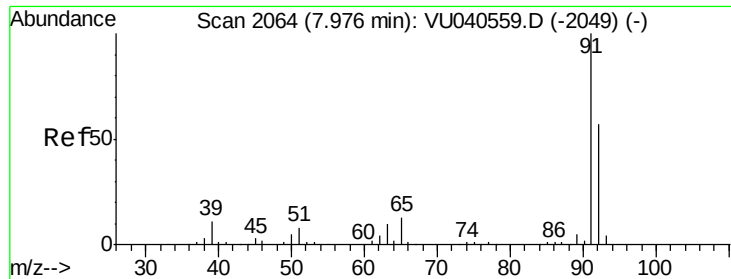
Tot Ion: 63 Resp: 6912
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.5 5.3#



#39
 cis-1,3-Dichloropropene
 Concen: 0.103 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

Tgt Ion: 75 Resp: 1806
 Ion Ratio Lower Upper
 75 100
 77 53.9 20.5 38.1#





#42

Toluene

Concen: 0.239 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

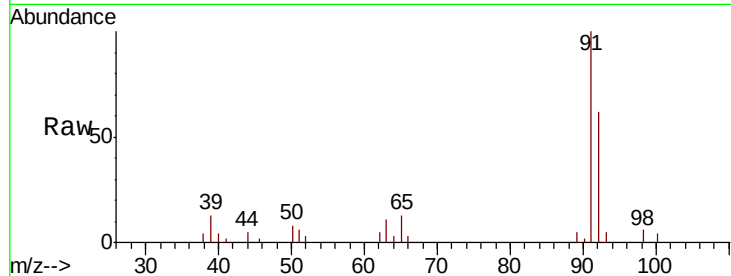
BG3S5DL 20X

Tot Ion: 91 Resp: 11184

Ion Ratio Lower Upper

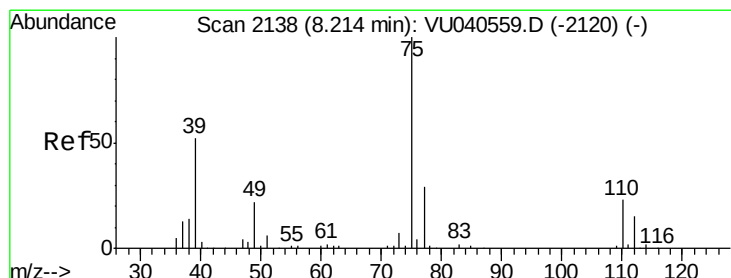
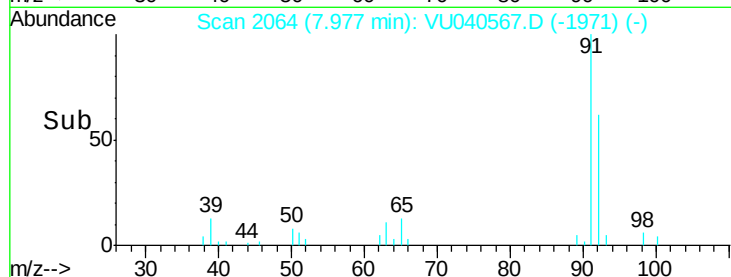
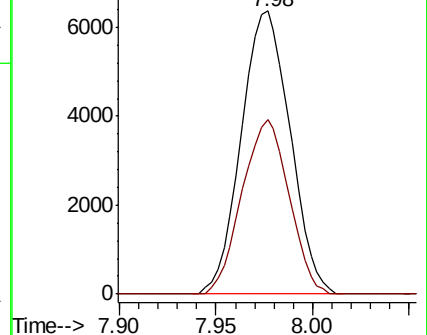
91 100

92 61.6 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VU040559.D (-2049) (-)

Ion 92.15 (91.85 to 92.85): VU040559.D (-2049) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.058 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU040567.D

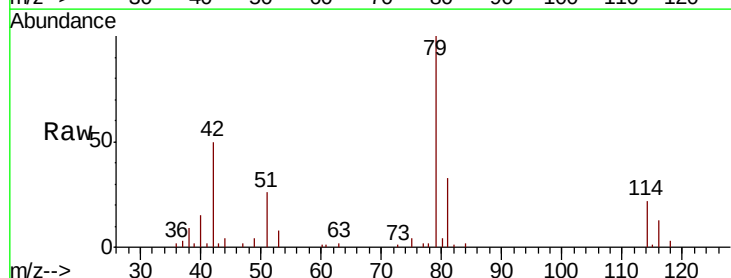
Acq: 08 Oct 2020 17:33

Tgt Ion: 75 Resp: 941

Ion Ratio Lower Upper

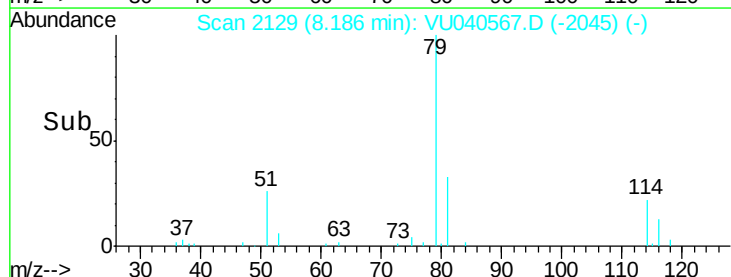
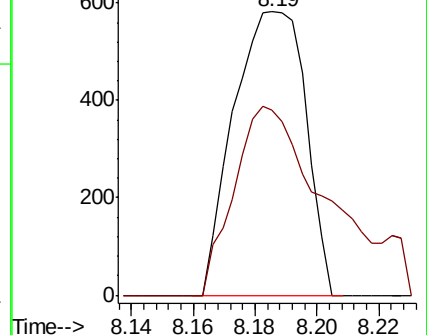
75 100

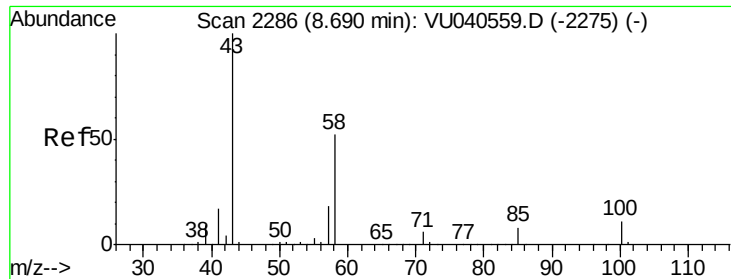
77 65.5 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU040559.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU040559.D (-2120) (-)

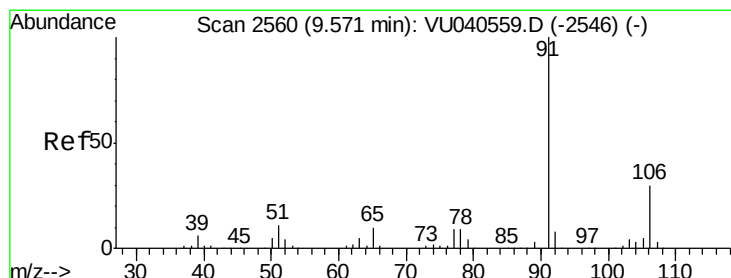
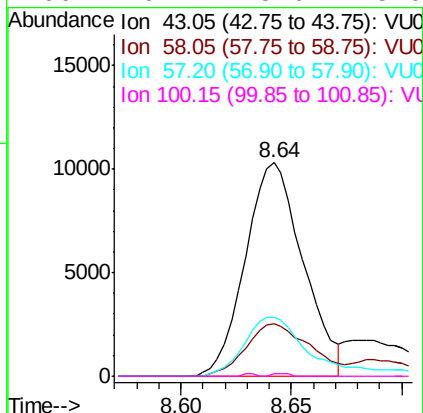
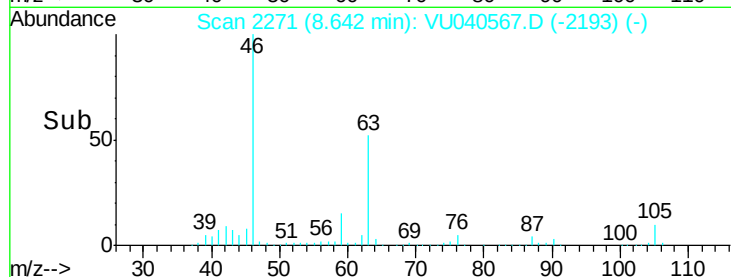
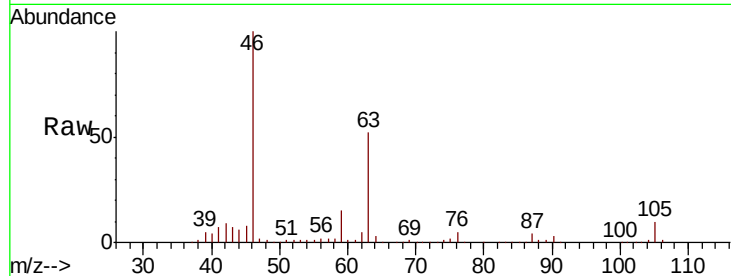




#48
2-Hexanone
Concen: 2.466 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040567.D
Acq: 08 Oct 2020 17:33

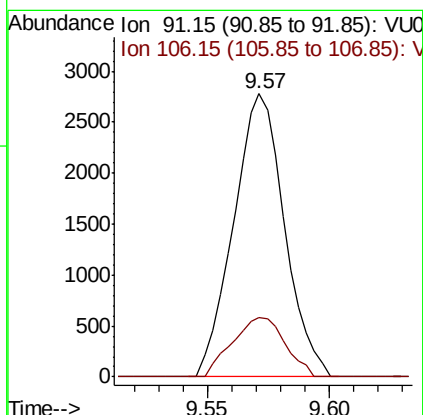
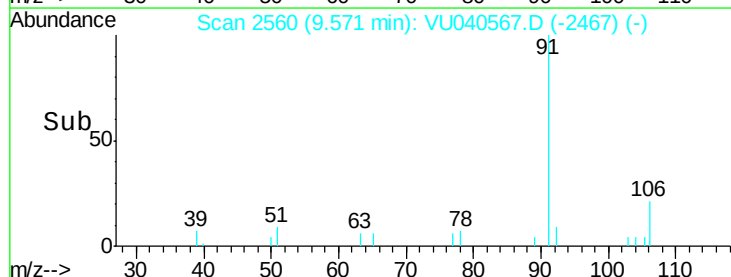
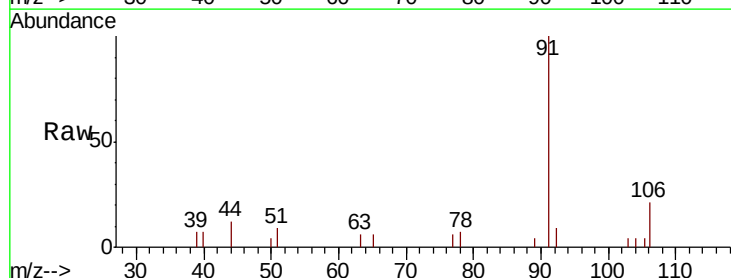
Instrument :
MSVOA_U
ClientSampleId :
BG3S5DL 20X

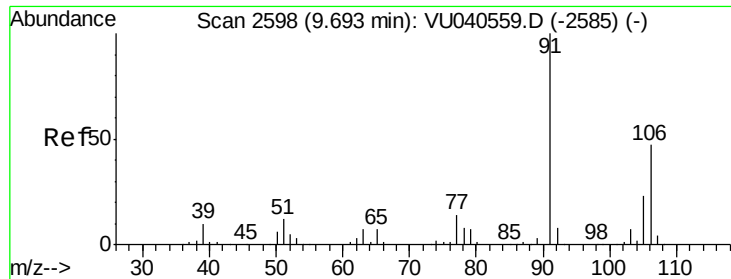
Tot Ion: 43 Resp: 18748
Ion Ratio Lower Upper
43 100
58 27.4 41.0 61.6#
57 30.4 14.4 21.6#
100 0.4 8.6 13.0#



#52
Ethylbenzene
Concen: 0.079 ug/L
RT: 9.57 min Scan# 2560
Delta R.T. 0.00 min
Lab File: VU040567.D
Acq: 08 Oct 2020 17:33

Tgt Ion: 91 Resp: 4005
Ion Ratio Lower Upper
91 100
106 21.2 20.7 38.5





#53

m,p-Xylene

Concen: 0.173 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

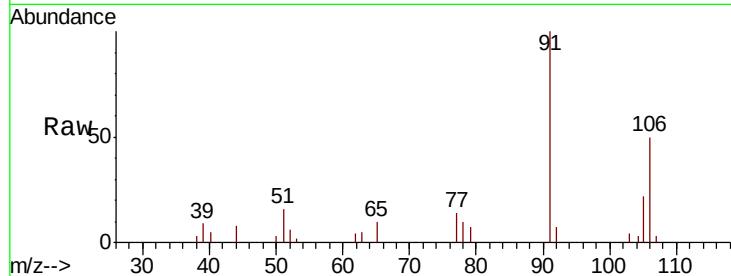
BG3S5DL 20X

Tot Ion:106 Resp: 3191

Ion Ratio Lower Upper

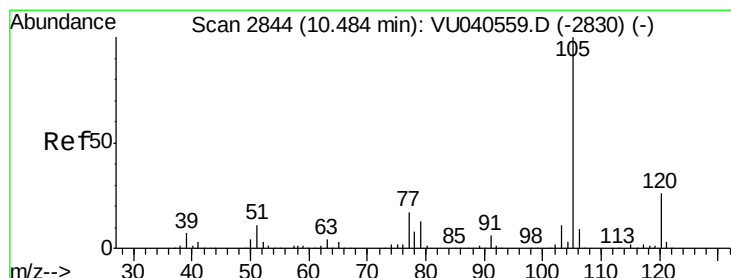
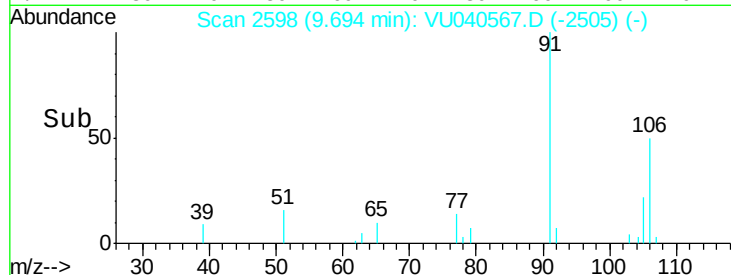
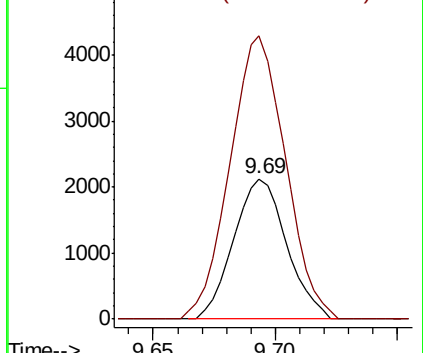
106 100

91 201.8 148.5 275.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.159 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

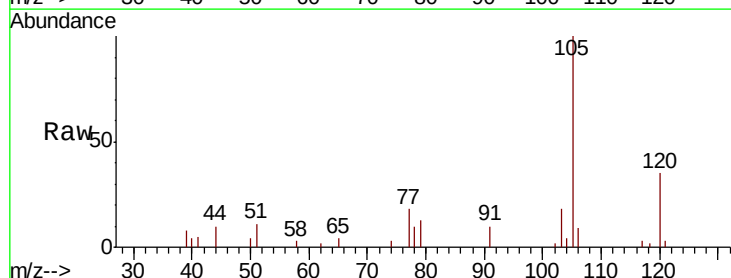
Tgt Ion:105 Resp: 7615

Ion Ratio Lower Upper

105 100

120 29.4 20.6 30.8

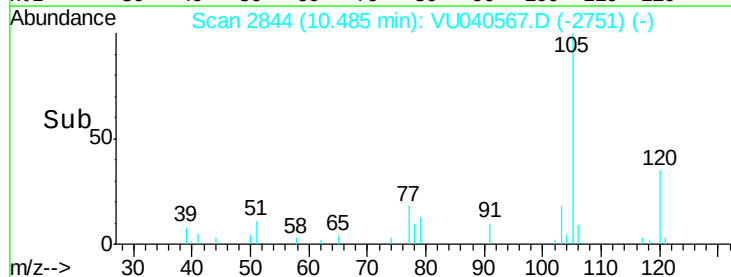
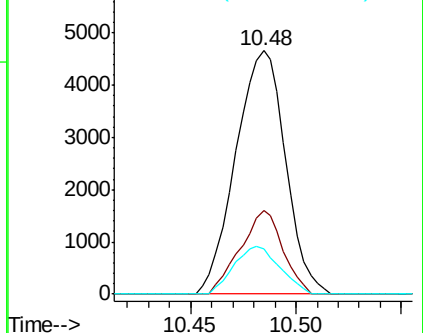
77 18.1 13.8 20.6

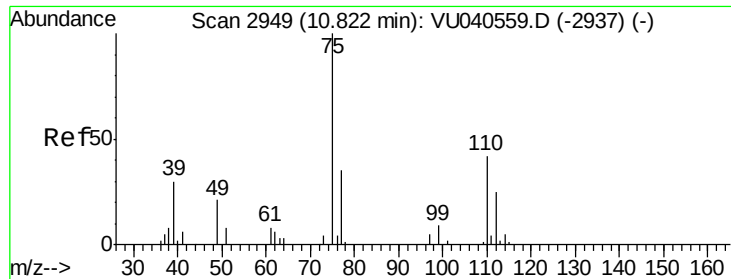


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0

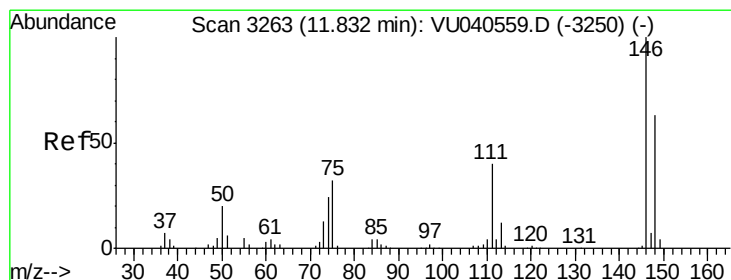
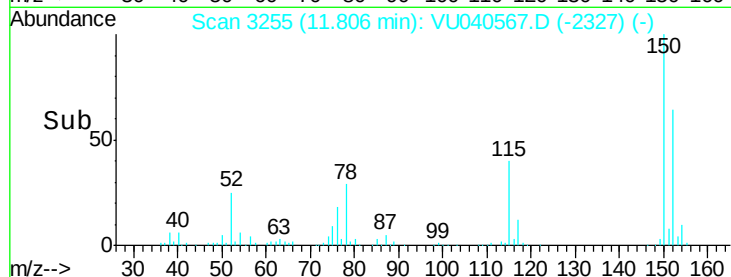
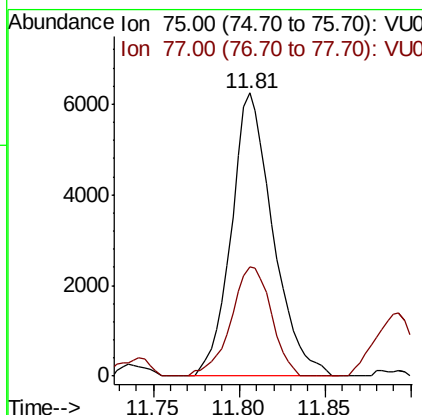
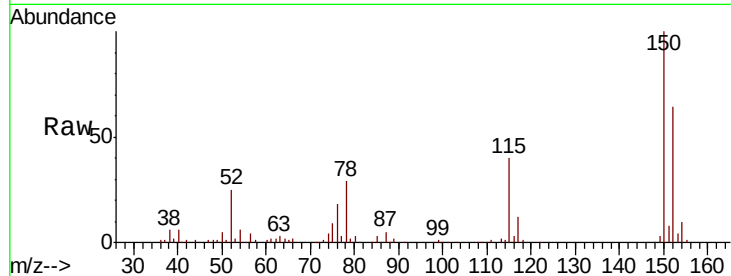




#59
 1,2,3-Trichloropropane
 Concen: 1.117 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.98 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

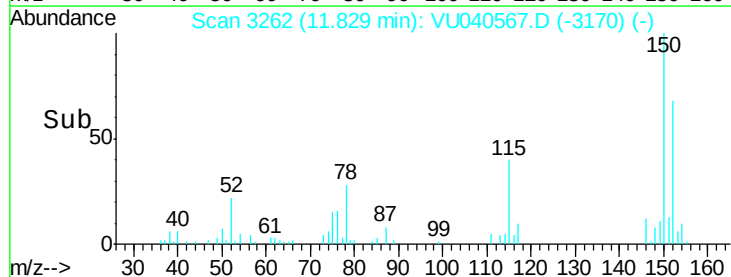
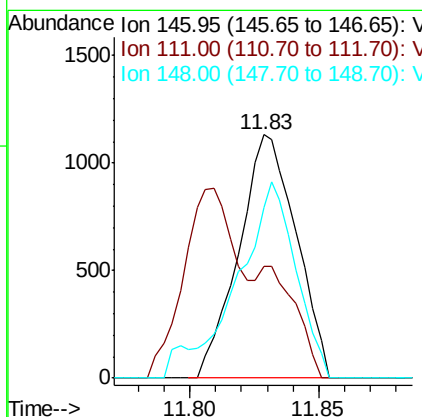
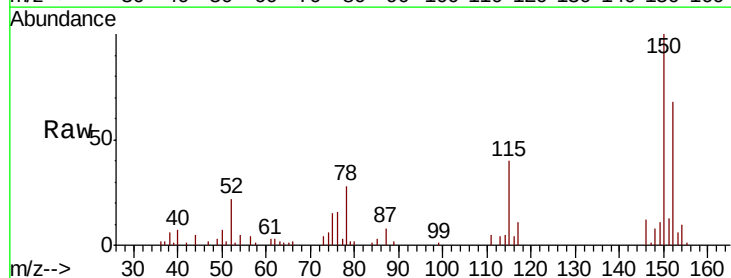
Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL 20X

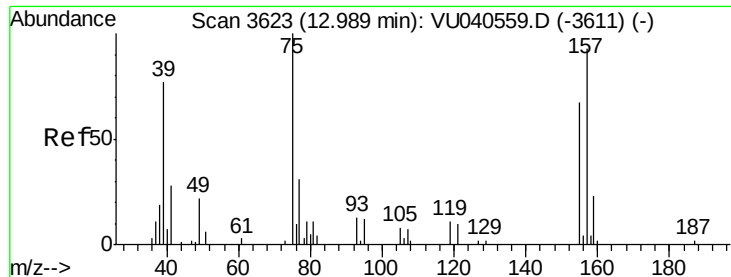
Tot Ion: 75 Resp: 10513
 Ion Ratio Lower Upper
 75 100
 77 37.3 26.4 39.6



#63
 1,4-Dichlorobenzene
 Concen: 0.071 ug/L
 RT: 11.83 min Scan# 3262
 Delta R.T. -0.00 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

Tgt Ion: 146 Resp: 1759
 Ion Ratio Lower Upper
 146 100
 111 45.8 28.4 52.8
 148 70.1 44.0 81.6

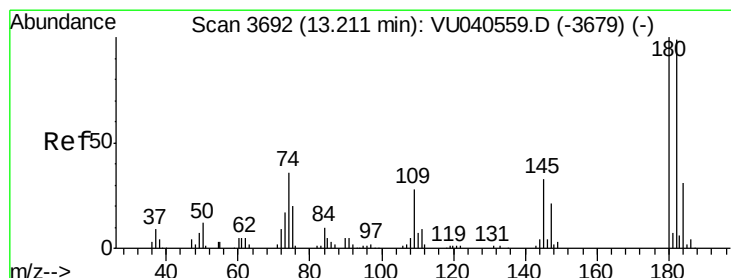
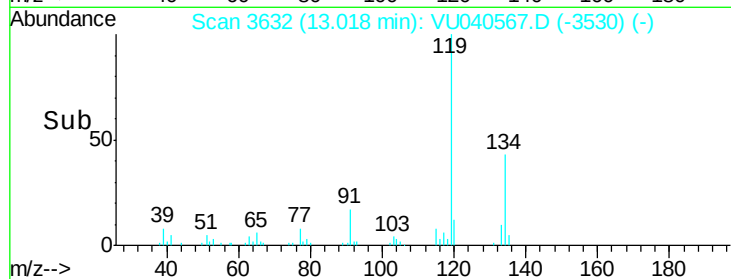
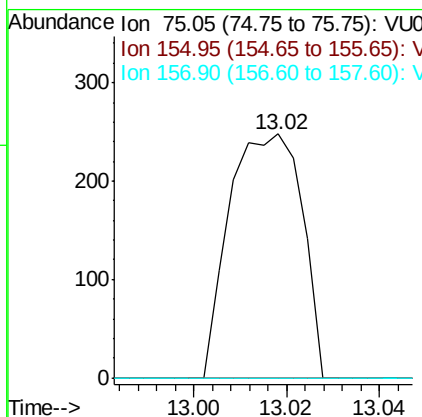
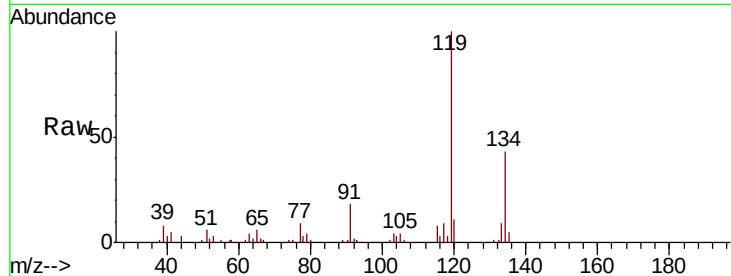




#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.132 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.03 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

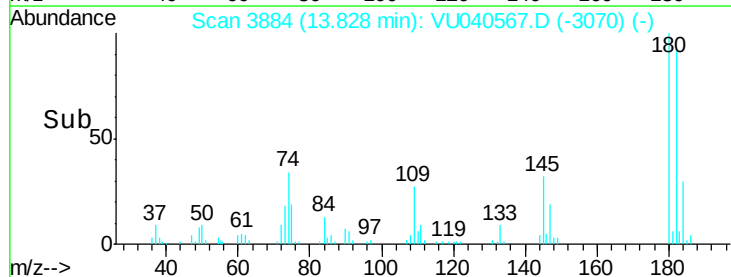
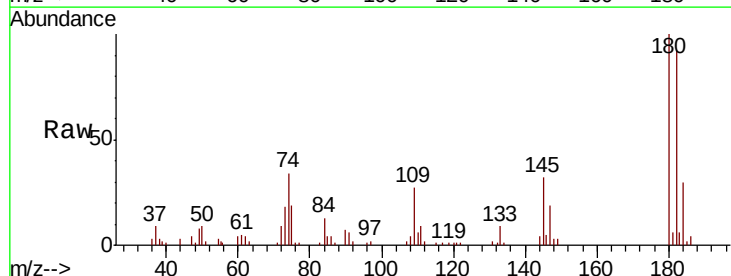
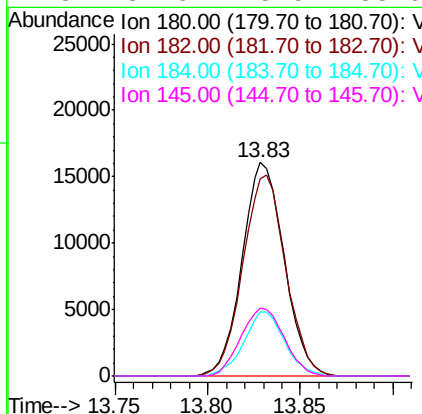
Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL 20X

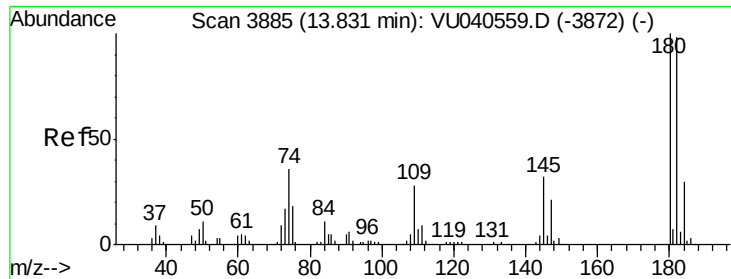
Tot Ion: 75 Resp: 270
 Ion Ratio Lower Upper
 75 100
 155 0.0 53.8 80.6#
 157 0.0 74.6 112.0#



#67
 1,3,5-Trichlorobenzene
 Concen: 1.490 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.62 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

Tgt Ion: 180 Resp: 25348
 Ion Ratio Lower Upper
 180 100
 182 95.7 77.0 115.4
 184 29.4 24.5 36.7
 145 32.6 25.9 38.9





#68

1,2,4-trichlorobenzene

Concen: 1.929 ug/L

RT: 13.83 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

Instrument :

MSVOA_U

ClientSampleId :

BG3S5DL 20X

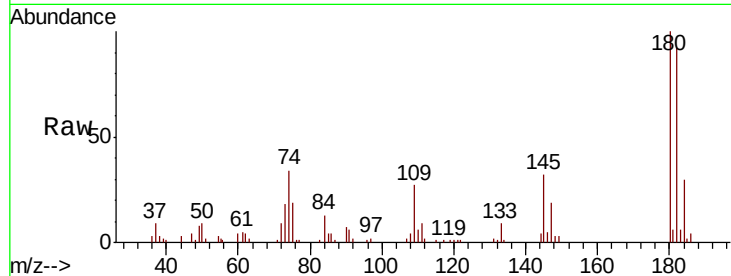
Tot Ion:180 Resp: 25348

Ion Ratio Lower Upper

180 100

182 95.7 78.8 118.2

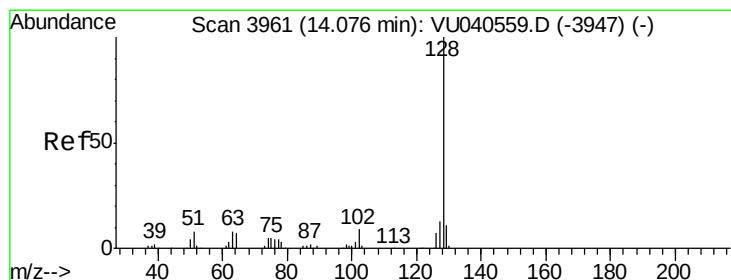
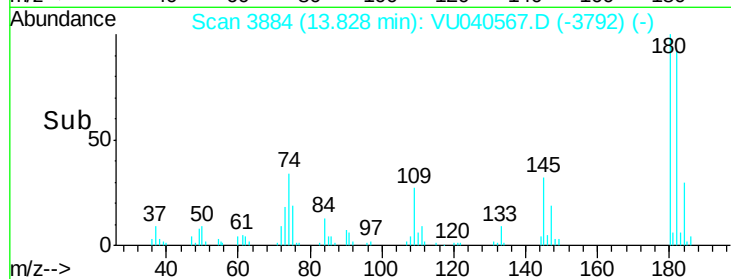
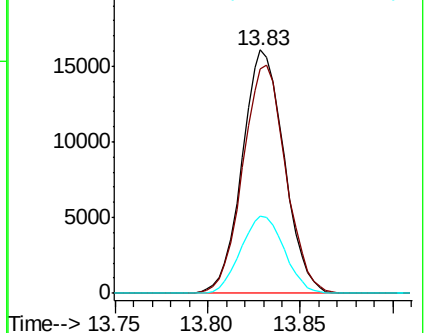
145 32.6 26.1 39.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V



#69

Naphthalene

Concen: 0.103 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VU040567.D

Acq: 08 Oct 2020 17:33

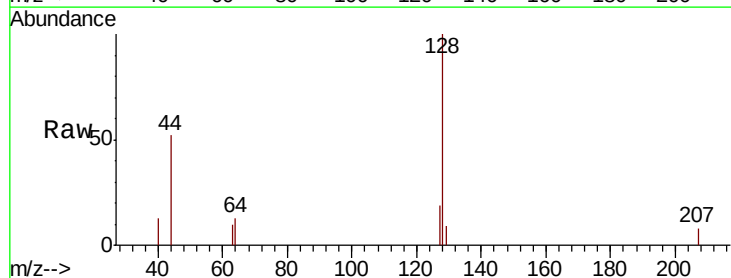
Tgt Ion:128 Resp: 2217

Ion Ratio Lower Upper

128 100

129 5.3 9.0 13.4#

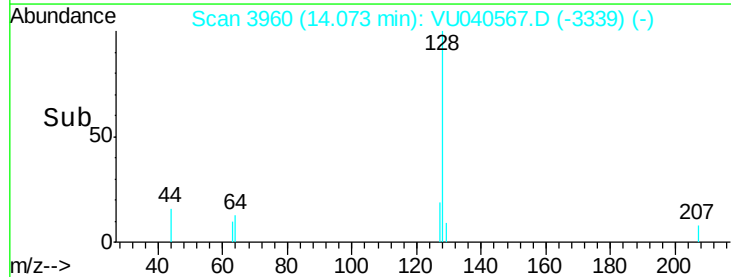
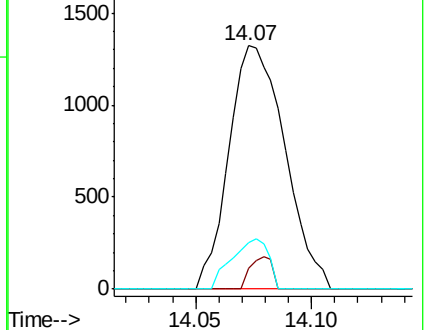
127 13.5 10.2 15.4

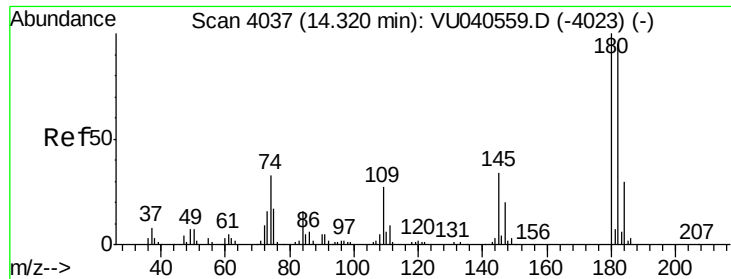


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

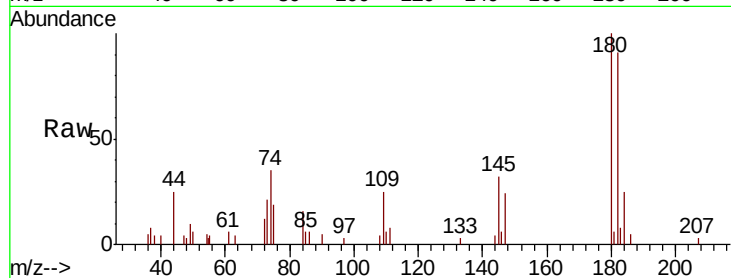




#70
 1,2,3-Trichlorobenzene
 Concen: 0.455 ug/L
 RT: 14.32 min Scan# 4037
 Delta R.T. 0.00 min
 Lab File: VU040567.D
 Acq: 08 Oct 2020 17:33

Instrument :
 MSVOA_U
 ClientSampleId :
 BG3S5DL 20X

Tot Ion:	180	Resp:	5550
Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.8
145	34.8	27.4	41.2



Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

