

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU101920\
 Data File : VU040797.D
 Acq On : 19 Oct 2020 12:13
 Operator : SY/MD
 Sample : L4419-02DL 5X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AG9DL

Quant Time: Oct 20 01:36:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR100820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 20 01:28:45 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119016	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	122854	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	51175	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	30723	3.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.20%
7) Chloroethane-d5	1.93	69	31399	4.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	82.60%
11) 1,1-Dichloroethene-d2	2.58	63	87218	4.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.40%
20) 2-Butanone-d5	4.66	46	174297	55.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	110.46%
24) Chloroform-d	5.08	84	82919	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.72	65	53226	5.05	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.00%
32) Benzene-d6	5.75	84	140750	4.25	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.00%
36) 1,2-Dichloropropane-d6	6.70	67	51980	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.60%
41) Toluene-d8	7.91	98	106408	3.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.80%
43) trans-1,3-Dichloropropene-	8.19	79	19726	4.23	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.60%
46) 2-Hexanone-d5	8.64	63	119067	49.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.16%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	48130	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	47930	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

				Ovalue
3) Chloromethane	1.52	50	2241	0.222 ug/L # 43
5) Vinyl chloride	1.61	62	755	0.071 ug/L # 1
8) Chloroethane	1.93	64	591	0.087 ug/L # 52
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	610	0.062 ug/L # 20
12) 1,1-Dichloroethene	2.59	96	60536	7.129 ug/L # 89
14) Carbon disulfide	2.81	76	1657	0.070 ug/L # 76
16) Methylene chloride	3.07	84	2169	0.199 ug/L # 82
19) 1,1-Dichloroethane	3.89	63	2524	0.137 ug/L # 97
22) cis-1,2-Dichloroethene	4.69	96	11141	1.162 ug/L # 89
25) Chloroform	5.11	83	3458	0.184 ug/L # 93
29) 1,1,1-Trichloroethane	5.33	97	5701	0.345 ug/L # 98
34) Trichloroethene	6.55	95	9087	0.888 ug/L # 90
35) Methylcyclohexane	6.70	83	12328	0.850 ug/L # 14
37) 1,2-Dichloropropane	6.70	63	6408	0.583 ug/L # 87
38) Bromodichloromethane	7.12	83	517	0.037 ug/L # 74
39) cis-1,3-Dichloropropene	7.57	75	1385	0.092 ug/L # 79
44) trans-1,3-Dichloropropene	8.19	75	1025	0.074 ug/L # 78

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 20 01:28:45 2020
Response via : Initial Calibration

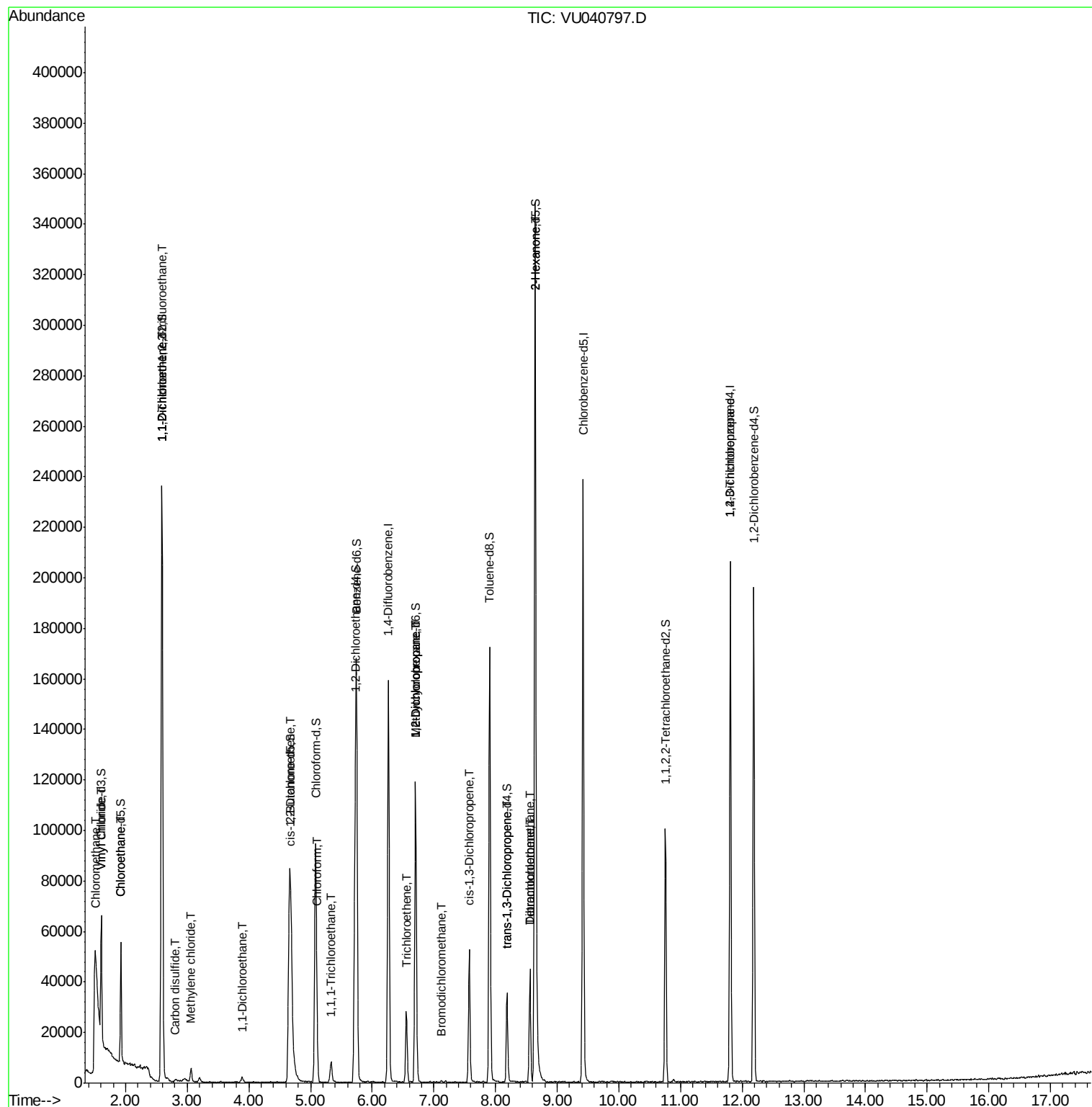
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	8766	1.201	ug/L	91
48) 2-Hexanone	8.64	43	16532	2.533	ug/L #	70
49) Dibromochloromethane	8.56	129	9195	0.970	ug/L #	9
59) 1,2,3-Trichloropropane	11.81	75	7156	0.886	ug/L	96

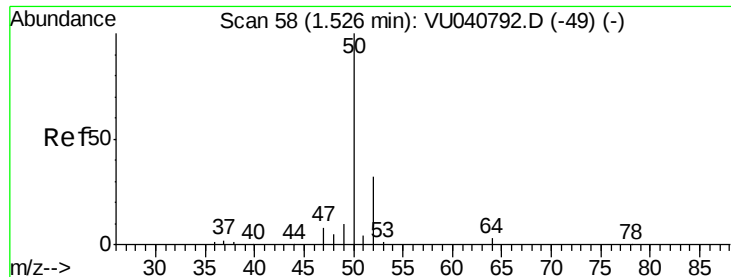
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.222 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.01 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampled :

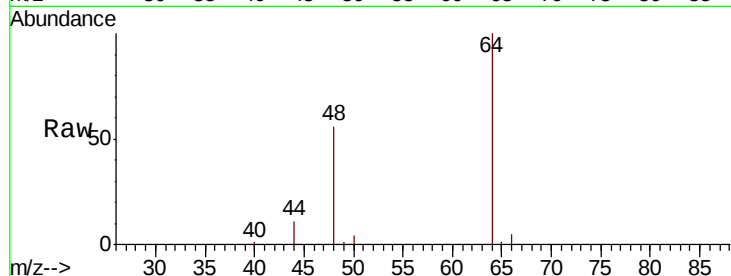
C0AG9DL

Tot Ion: 50 Resp: 2241

Ion Ratio Lower Upper

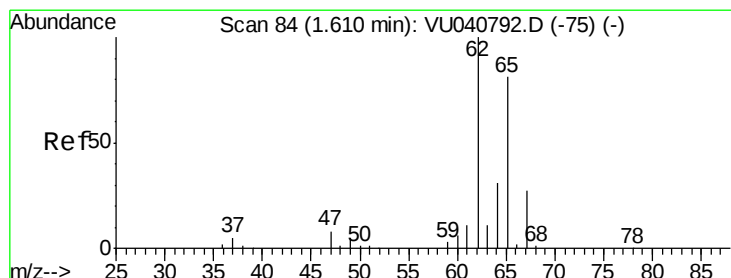
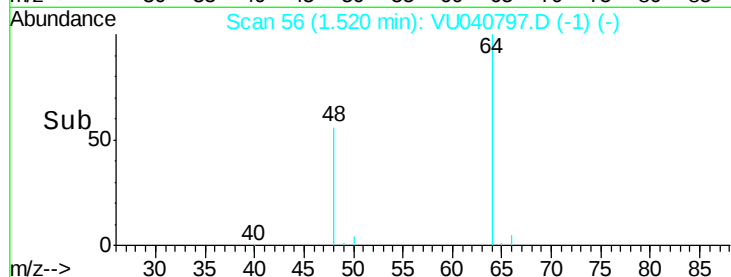
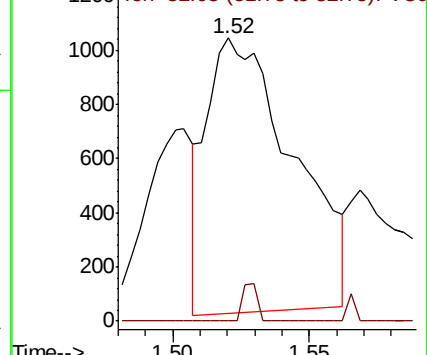
50 100

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



#5

Vinyl chloride

Concen: 0.071 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040797.D

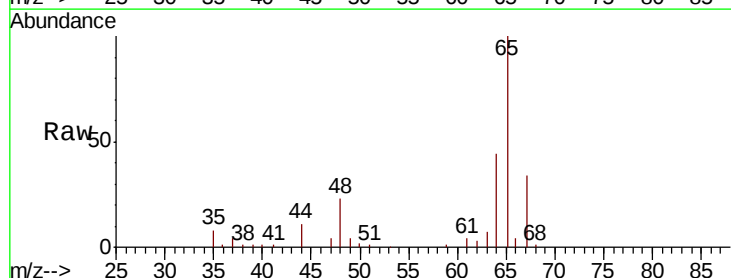
Acq: 19 Oct 2020 12:13

Tgt Ion: 62 Resp: 755

Ion Ratio Lower Upper

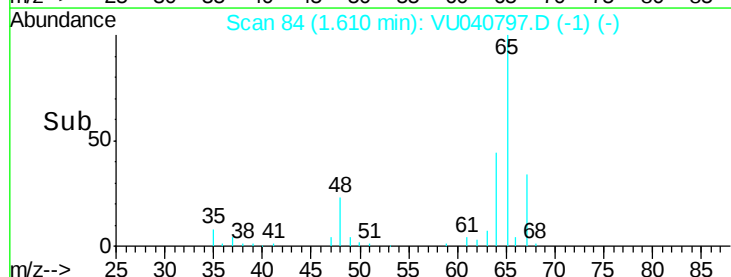
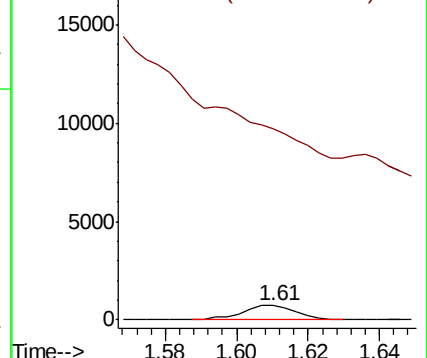
62 100

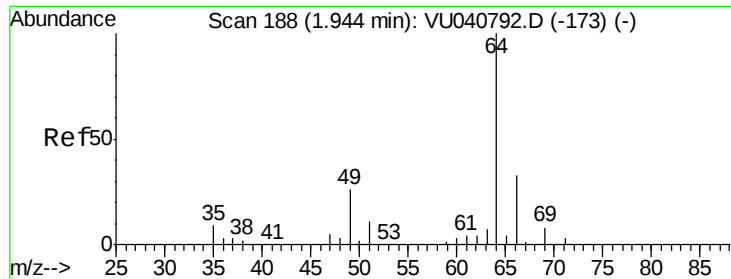
64 1329.2 23.7 44.1#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

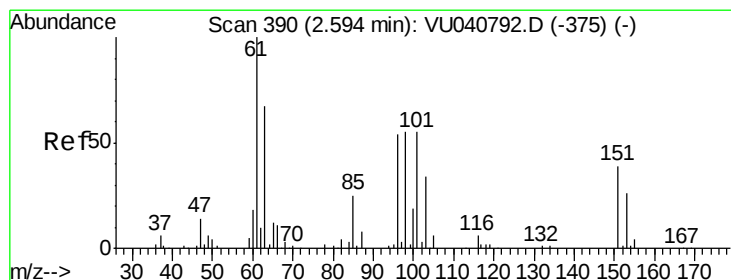
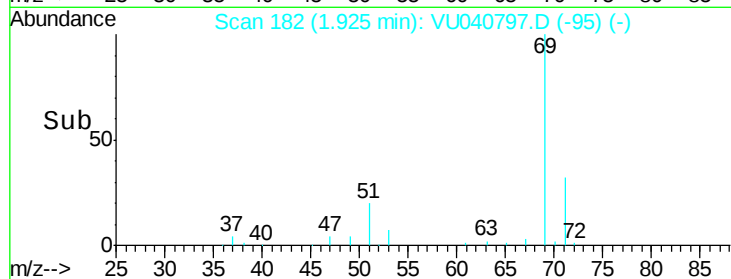
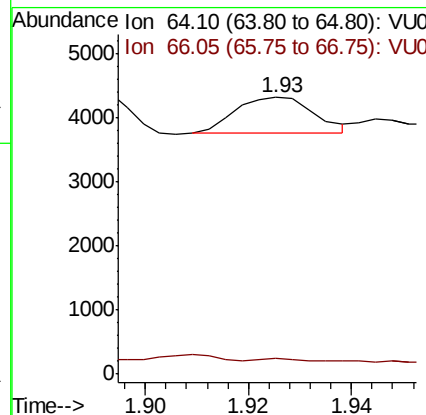
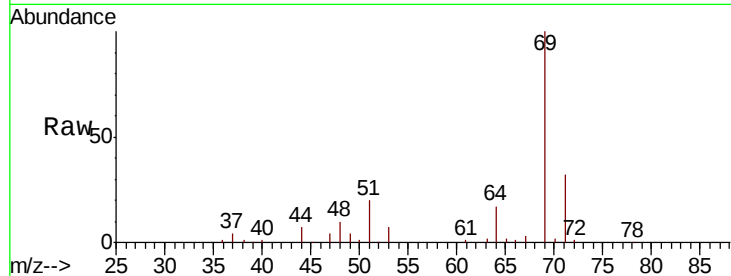




#8
Chloroethane
Concen: 0.087 ug/L
RT: 1.93 min Scan# 182
Delta R.T. -0.02 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

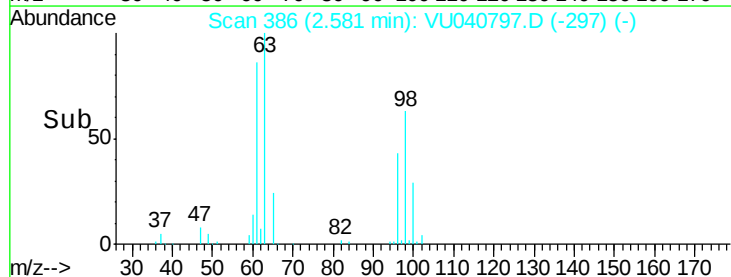
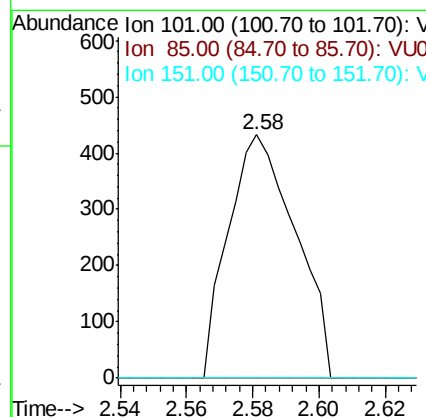
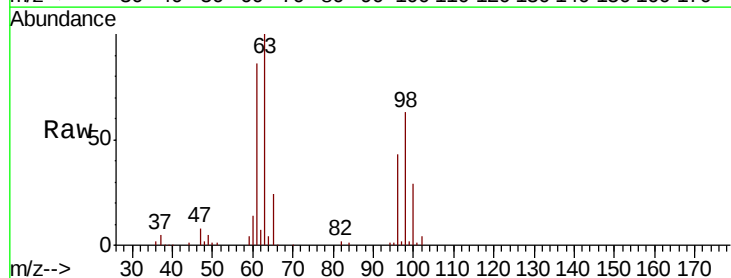
Instrument :
MSVOA_U
ClientSampleId :
C0AG9DL

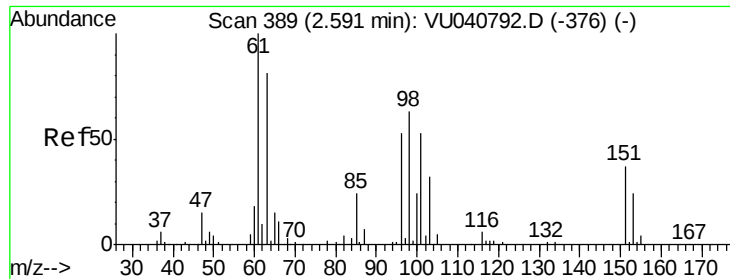
Tot Ion: 64 Resp: 591
Ion Ratio Lower Upper
64 100
66 5.8 23.3 43.3#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.062 ug/L
RT: 2.58 min Scan# 386
Delta R.T. -0.01 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Tgt Ion: 101 Resp: 610
Ion Ratio Lower Upper
101 100
85 0.0 36.7 55.1#
151 0.0 58.0 87.0#





#12

1,1-Dichloroethene

Concen: 7.129 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampleId :

C0AG9DL

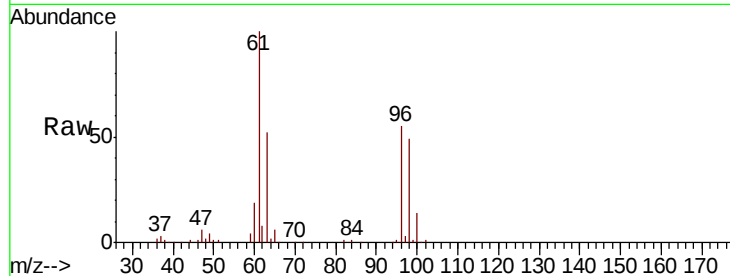
Tot Ion: 96 Resp: 60536

Ion Ratio Lower Upper

96 100

61 181.3 128.8 239.2

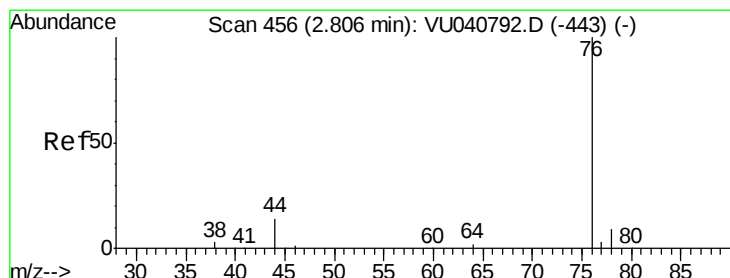
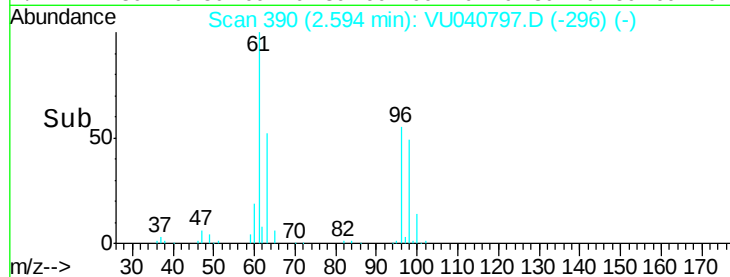
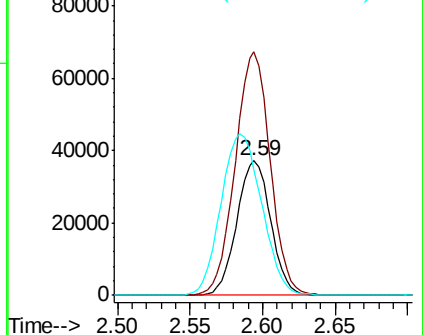
63 93.8 84.6 157.2



Abundance Ion 96.00 (95.70 to 96.70): VU040797.D (-296) (-)

Ion 61.05 (60.75 to 61.75): VU040797.D (-296) (-)

Ion 63.00 (62.70 to 63.70): VU040797.D (-296) (-)



#14

Carbon disulfide

Concen: 0.070 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU040797.D

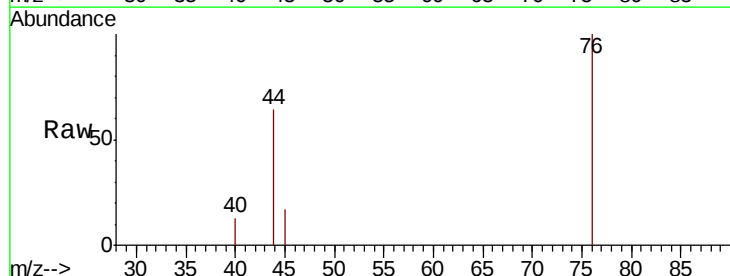
Acq: 19 Oct 2020 12:13

Tgt Ion: 76 Resp: 1657

Ion Ratio Lower Upper

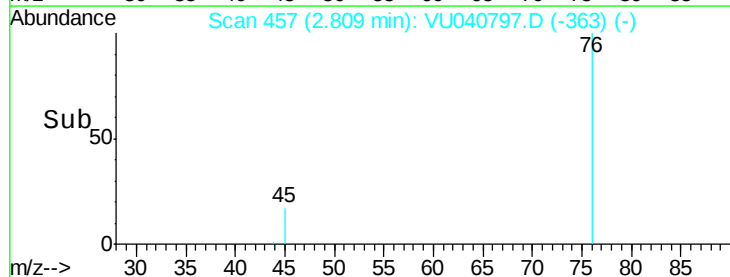
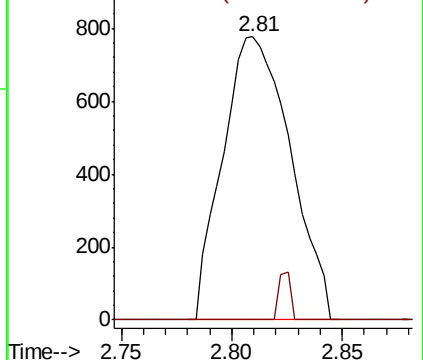
76 100

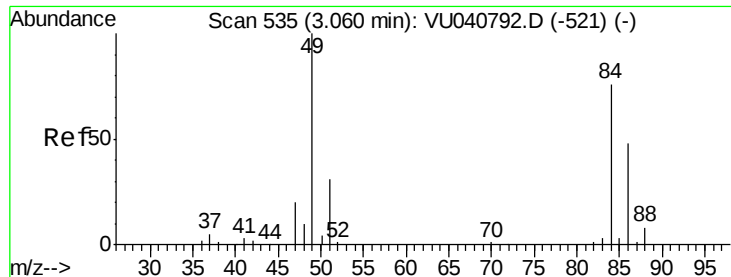
78 0.0 6.8 10.2#



Abundance Ion 76.05 (75.75 to 76.75): VU040797.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040797.D (-363) (-)

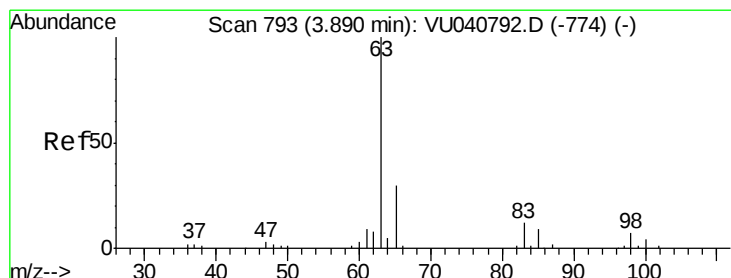
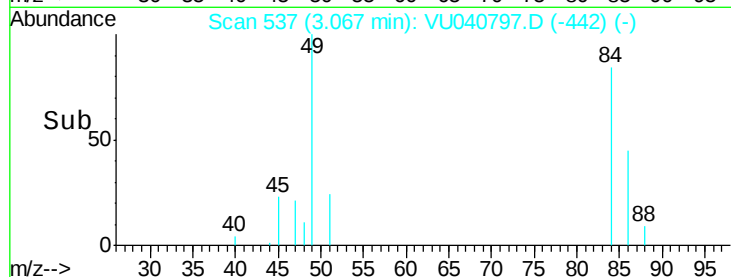
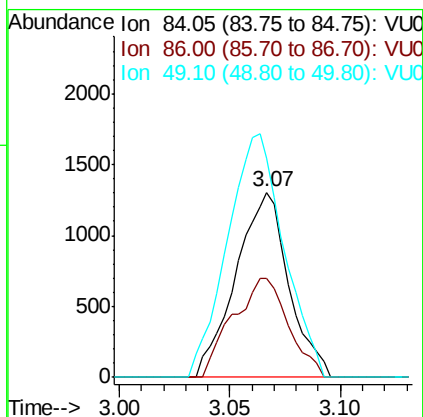
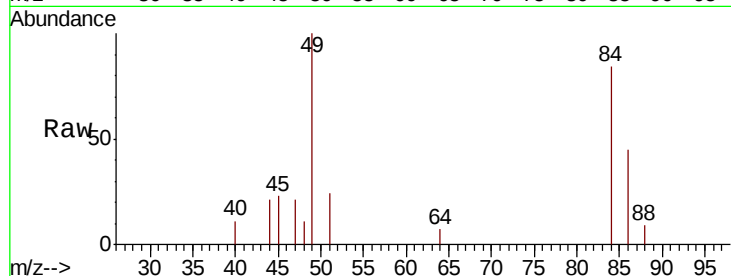




#16
Methylene chloride
Concen: 0.199 ug/L
RT: 3.07 min Scan# 537
Delta R.T. 0.01 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

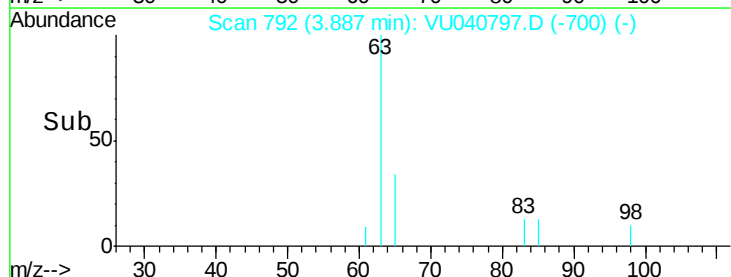
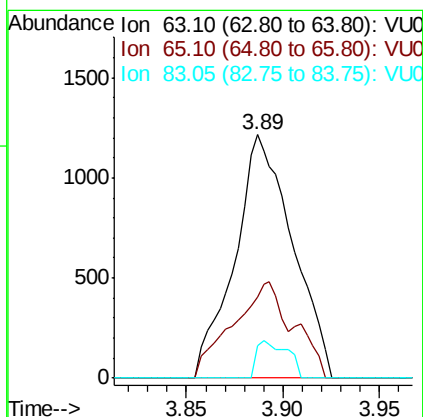
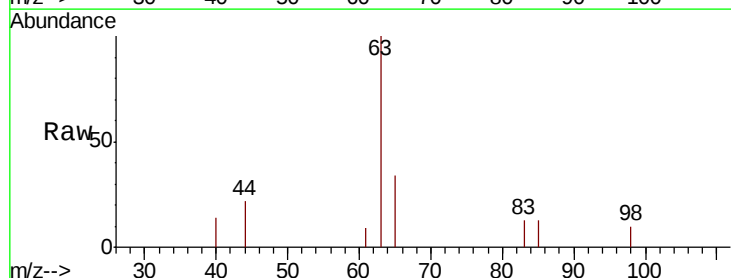
Instrument :
MSVOA_U
ClientSampleId :
C0AG9DL

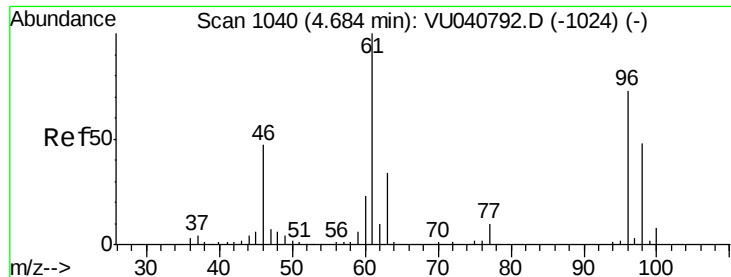
Tot Ion: 84 Resp: 2169
Ion Ratio Lower Upper
84 100
86 53.3 45.4 84.4
49 118.7 99.8 185.3



#19
1,1-Dichloroethane
Concen: 0.137 ug/L
RT: 3.89 min Scan# 792
Delta R.T. -0.00 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Tgt Ion: 63 Resp: 2524
Ion Ratio Lower Upper
63 100
65 33.6 21.9 40.7
83 13.2 9.6 17.8





#22

cis-1,2-Dichloroethene

Concen: 1.162 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampleId :

C0AG9DL

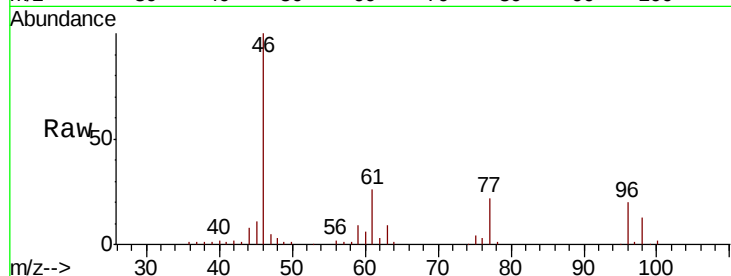
Tot Ion: 96 Resp: 11141

Ion Ratio Lower Upper

96 100

61 129.4 99.8 185.4

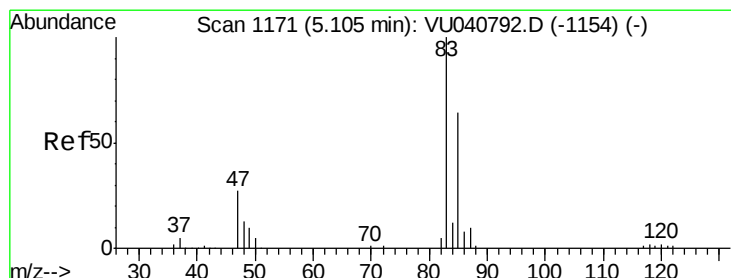
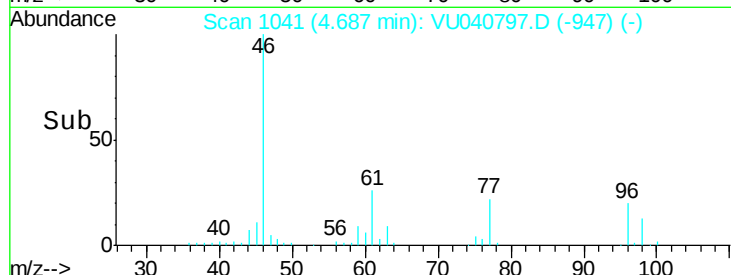
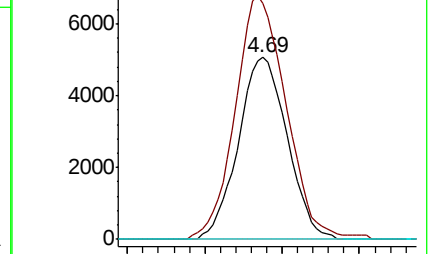
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU040797.D (-1024) (-)

Ion 61.05 (60.75 to 61.75): VU040797.D (-1024) (-)

Ion 68.15 (67.85 to 68.85): VU040797.D (-1024) (-)



#25

Chloroform

Concen: 0.184 ug/L

RT: 5.11 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VU040797.D

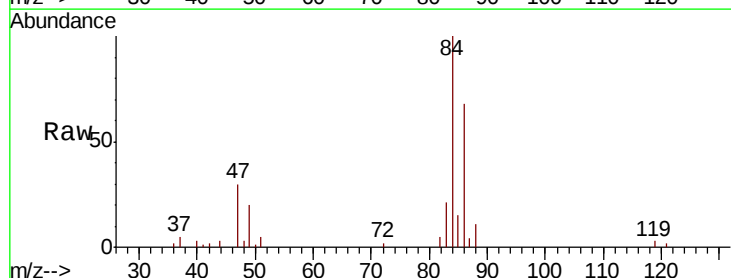
Acq: 19 Oct 2020 12:13

Tgt Ion: 83 Resp: 3458

Ion Ratio Lower Upper

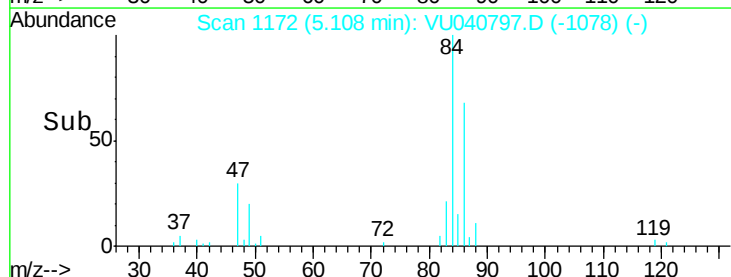
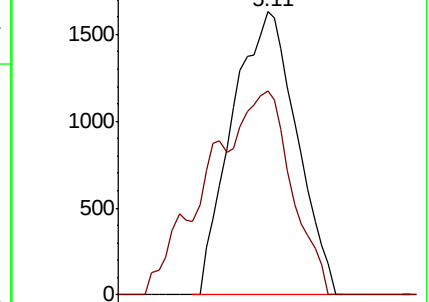
83 100

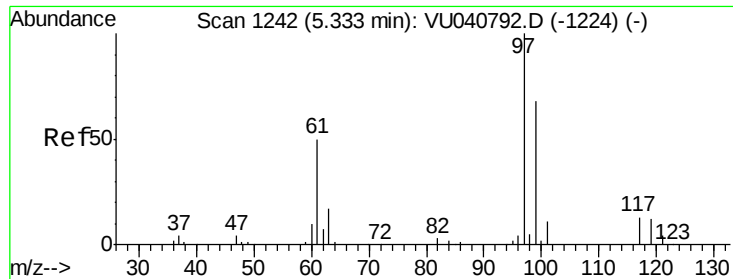
85 72.0 46.5 86.5



Abundance Ion 83.05 (82.75 to 83.75): VU040797.D (-1154) (-)

Ion 85.00 (84.70 to 85.70): VU040797.D (-1154) (-)

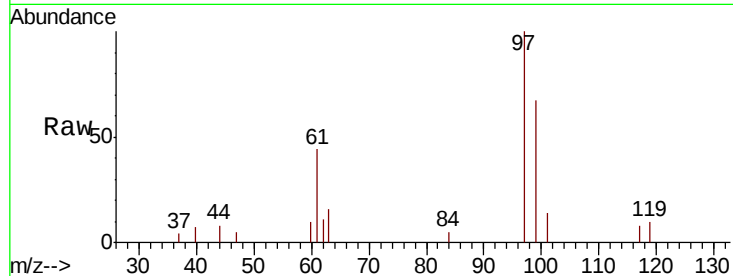




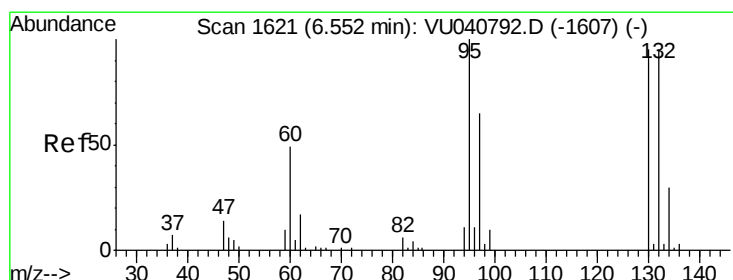
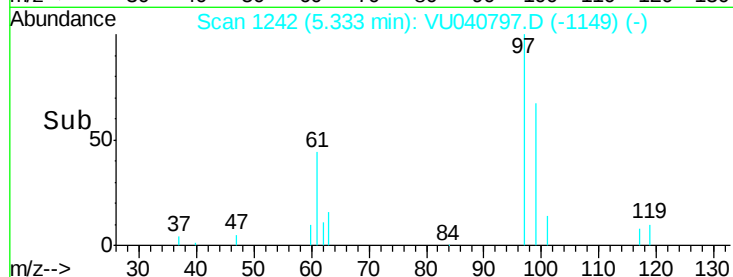
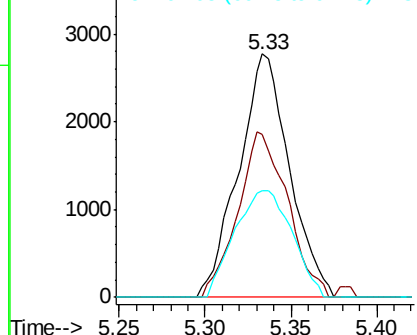
#29
1,1,1-Trichloroethane
Concen: 0.345 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Instrument :
MSVOA_U
ClientSampleId :
C0AG9DL

Tot Ion: 97 Resp: 5701
Ion Ratio Lower Upper
97 100
99 66.3 51.3 76.9
61 49.5 39.4 59.2

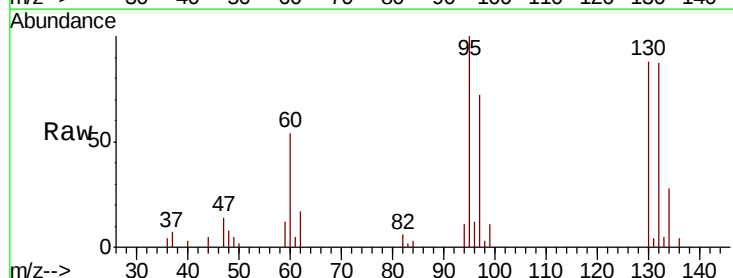


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

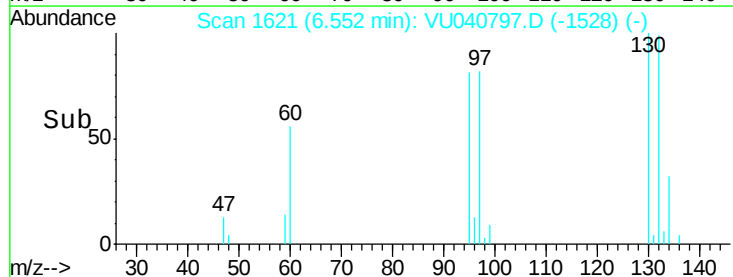
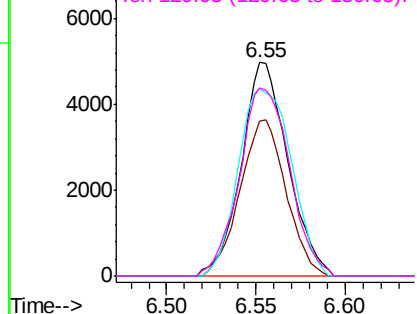


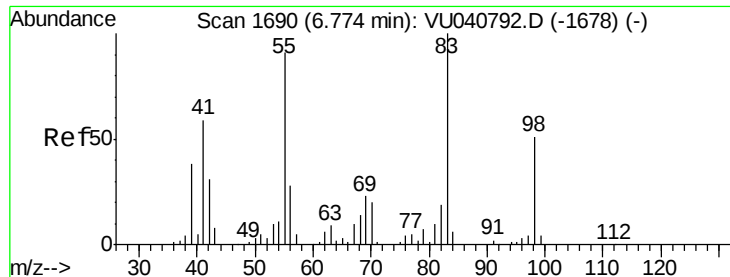
#34
Trichloroethene
Concen: 0.888 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Tgt Ion: 95 Resp: 9087
Ion Ratio Lower Upper
95 100
97 72.4 45.5 84.5
132 87.3 67.5 125.4
130 88.0 69.9 129.9



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

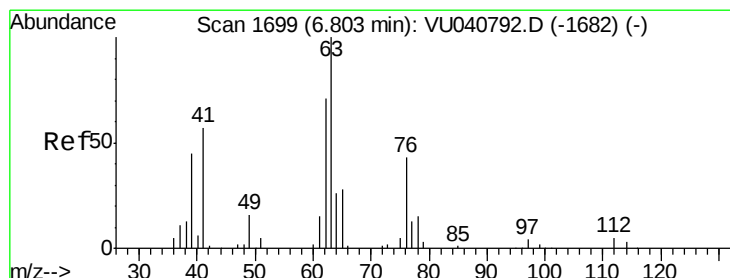
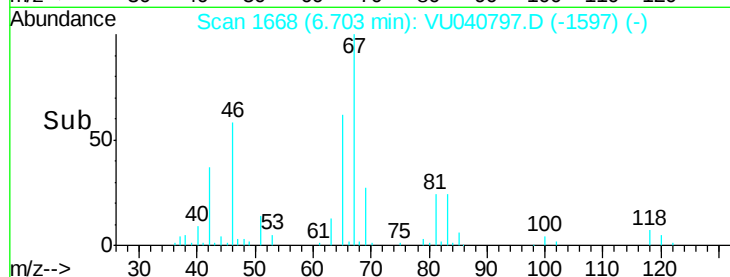
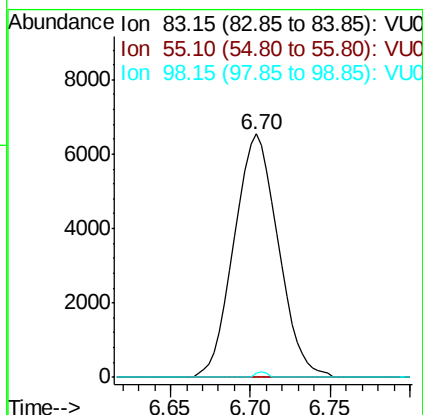
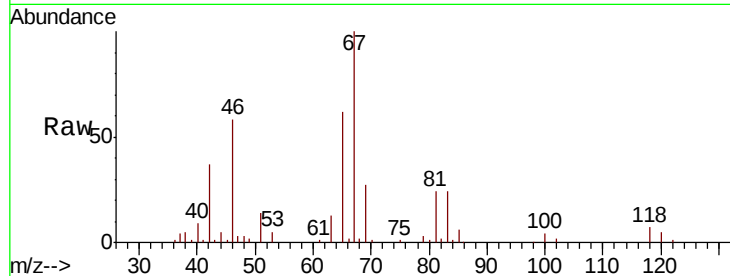




#35
Methvlcvclohexane
Concen: 0.850 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

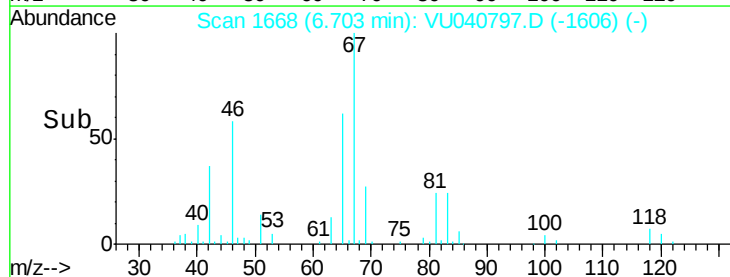
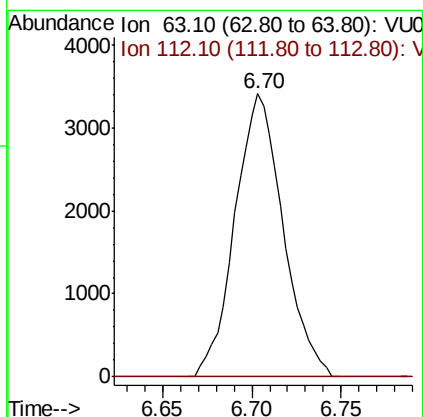
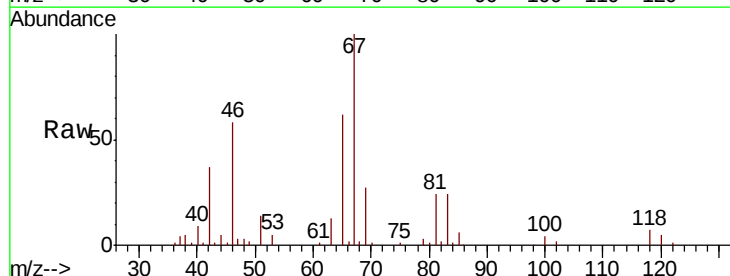
Instrument :
MSVOA_U
ClientSampleId :
C0AG9DL

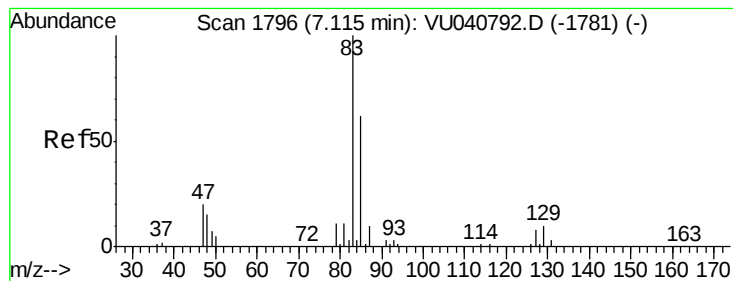
Tot Ion: 83 Resp: 12328
Ion Ratio Lower Upper
83 100
55 0.0 70.7 106.1#
98 0.6 38.4 57.6#



#37
1,2-Dichloropropane
Concen: 0.583 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.10 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Tgt Ion: 63 Resp: 6408
Ion Ratio Lower Upper
63 100
112 0.0 3.5 5.3#





#38

Bromodichloromethane

Concen: 0.037 ug/L

RT: 7.12 min Scan# 1798

Delta R.T. 0.01 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampleId :

C0AG9DL

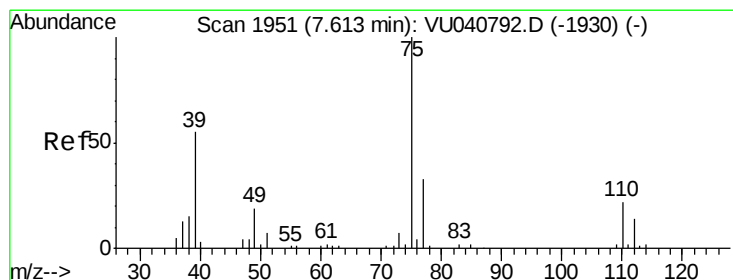
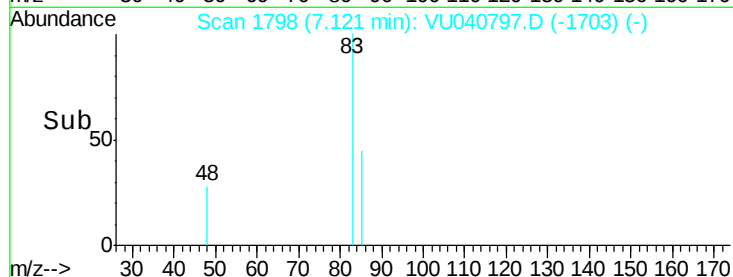
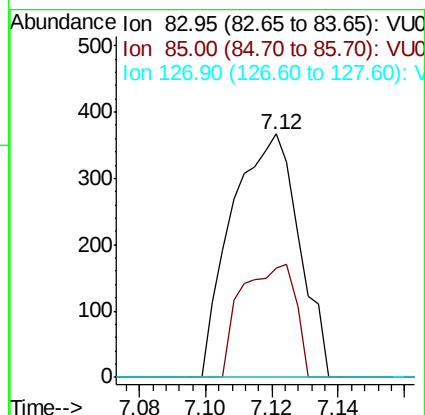
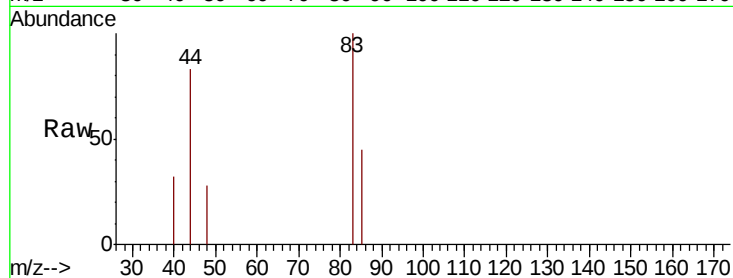
Tot Ion: 83 Resp: 517

Ion Ratio Lower Upper

83 100

85 44.7 46.0 85.4#

127 0.0 6.7 10.1#



#39

cis-1,3-Dichloropropene

Concen: 0.092 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU040797.D

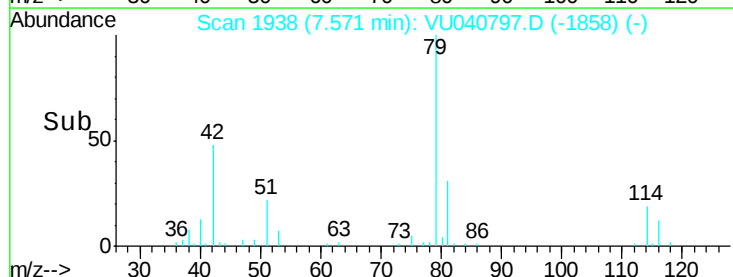
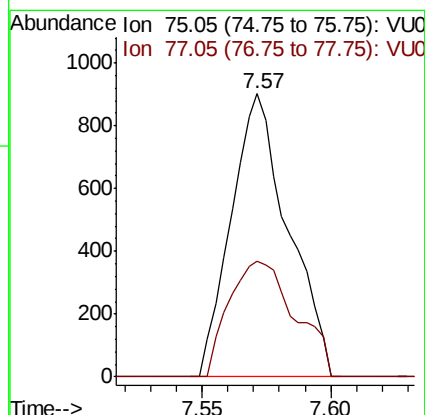
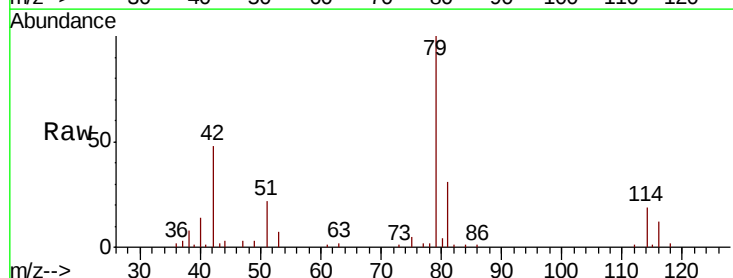
Acq: 19 Oct 2020 12:13

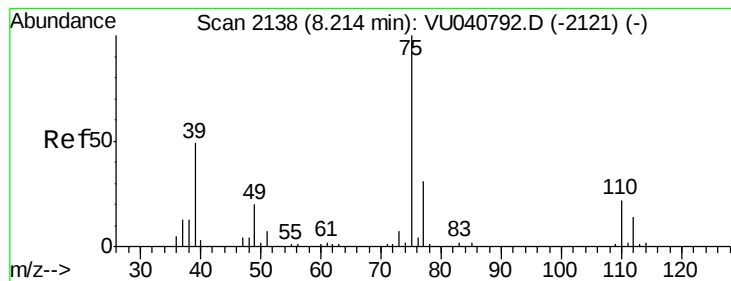
Tgt Ion: 75 Resp: 1385

Ion Ratio Lower Upper

75 100

77 40.7 20.5 38.1#





#44

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampleId :

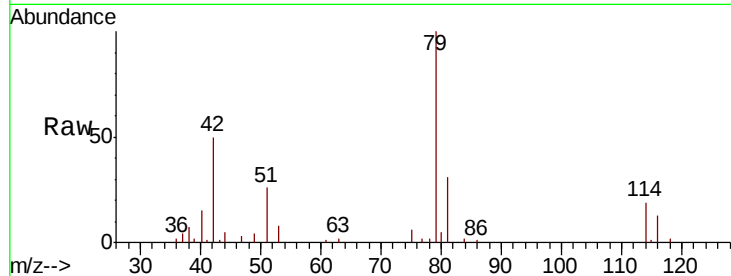
C0AG9DL

Tot Ion: 75 Resp: 1025

Ion Ratio Lower Upper

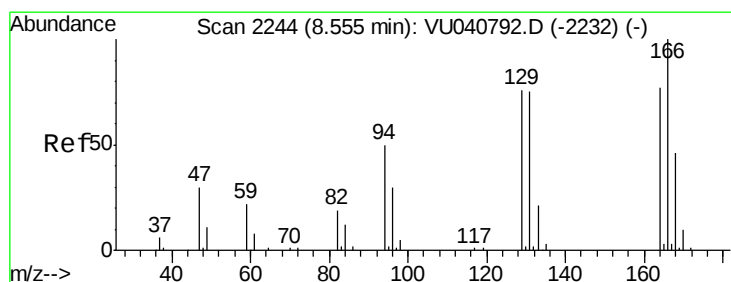
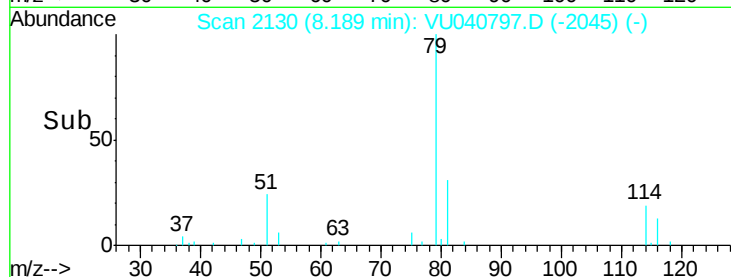
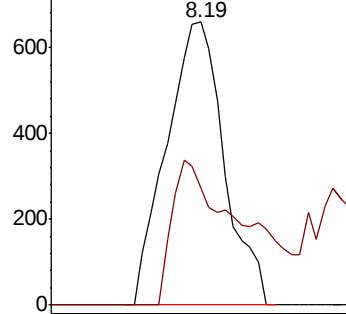
75 100

77 41.1 20.4 38.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#47

Tetrachloroethene

Concen: 1.201 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Tgt Ion: 164 Resp: 8766

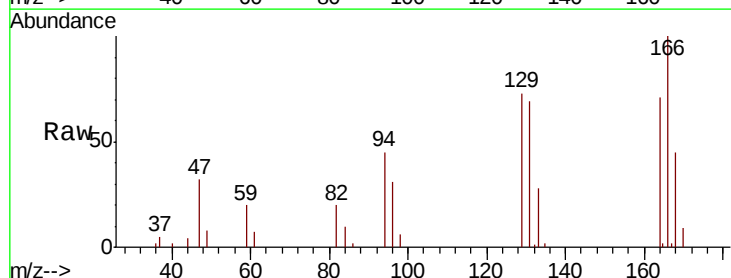
Ion Ratio Lower Upper

164 100

129 102.8 68.8 127.8

131 96.9 66.7 123.9

166 140.5 83.9 155.7

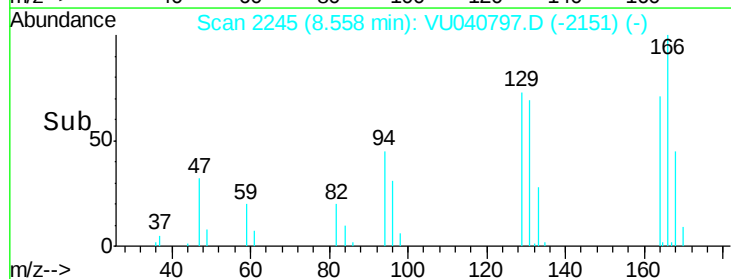
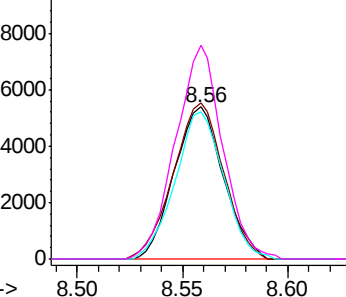


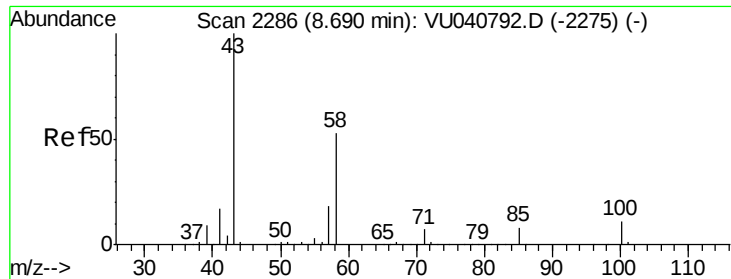
Abundance Ion 163.90 (163.60 to 164.60): V

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

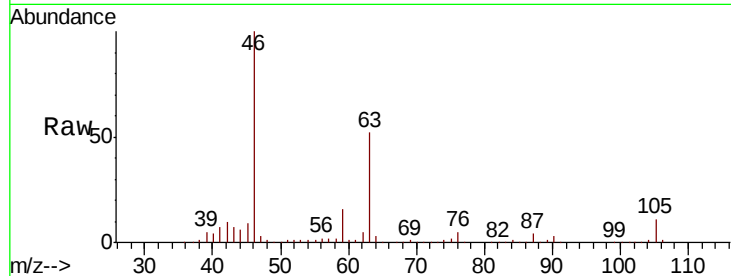




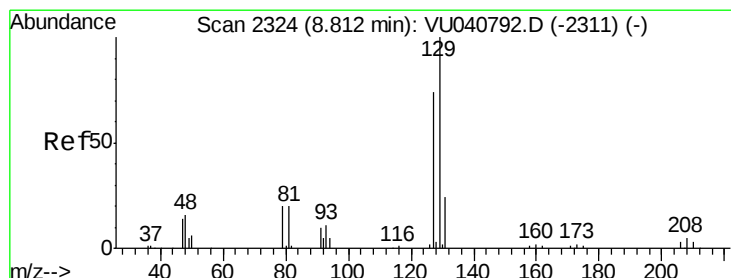
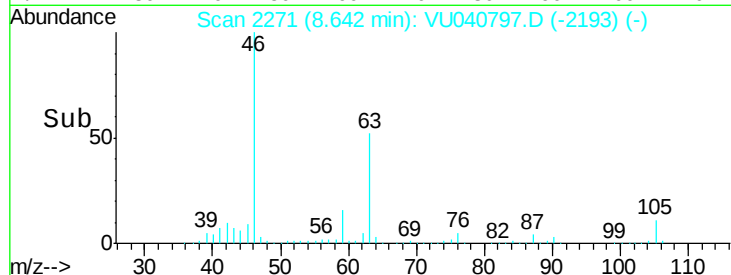
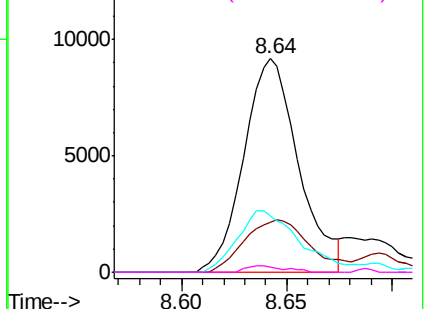
#48
2-Hexanone
Concen: 2.533 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Instrument :
MSVOA_U
ClientSampleId :
C0AG9DL

Tot Ion:	43	Resp:	16532
Ion	Ratio	Lower	Upper
43	100		
58	29.7	41.0	61.6#
57	32.1	14.4	21.6#
100	2.0	8.6	13.0#

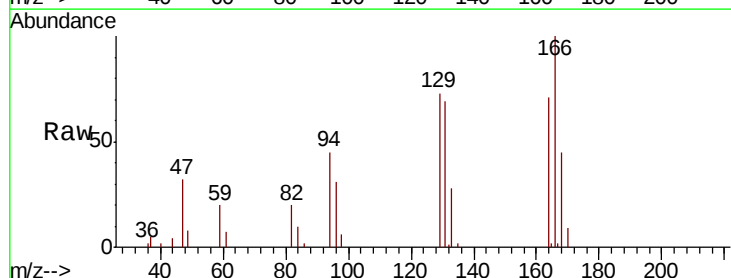


Abundance Ion 43.05 (42.75 to 43.75): VU040797.D (-2275) (-)
Ion 58.05 (57.75 to 58.75): VU040797.D (-2275) (-)
Ion 57.20 (56.90 to 57.90): VU040797.D (-2275) (-)
Ion 100.15 (99.85 to 100.85): VU040797.D (-2275) (-)

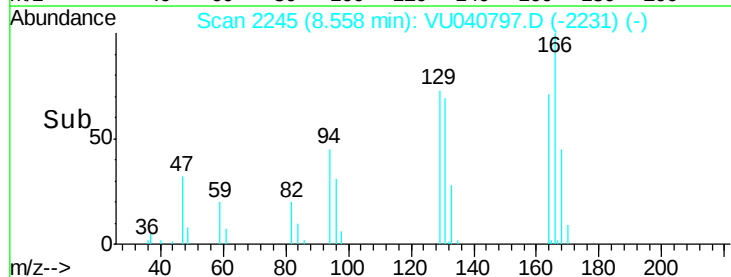
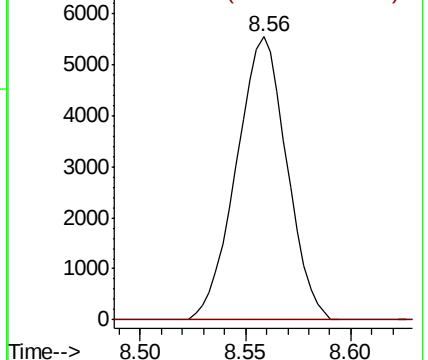


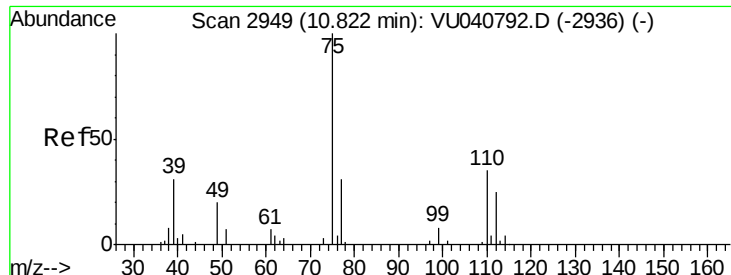
#49
Dibromochloromethane
Concen: 0.970 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU040797.D
Acq: 19 Oct 2020 12:13

Tgt Ion:	129	Resp:	9195
Ion	Ratio	Lower	Upper
129	100		
127	0.0	55.8	103.6#



Abundance Ion 128.95 (128.65 to 129.65): VU040797.D (-2245) (-)
Ion 126.90 (126.60 to 127.60): VU040797.D (-2245) (-)





#59

1,2,3-Trichloropropane

Concen: 0.886 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU040797.D

Acq: 19 Oct 2020 12:13

Instrument :

MSVOA_U

ClientSampleId :

C0AG9DL

Tot Ion: 75 Resp: 7156

Ion Ratio Lower Upper

75 100

77 35.3 26.4 39.6

