

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043020\
 Data File : VU037981.D
 Acq On : 01 May 2020 03:51
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 01 06:16:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM043020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 01 06:13:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	710662	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	704129	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	333868	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	251546	40.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.48%
7) Chloroethane-d5	1.92	69	214235	42.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	84.26%
11) 1,1-Dichloroethene-d2	2.59	63	433639	42.41	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.82%
21) 2-Butanone-d5	4.66	46	434837	89.00	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.00%
24) Chloroform-d	5.10	84	432643	44.70	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.40%
26) 1,2-Dichloroethane-d4	5.74	65	294620	43.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.64%
32) Benzene-d6	5.76	84	893574	43.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.10%
36) 1,2-Dichloropropane-d6	6.72	67	299424	43.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.02%
41) Toluene-d8	7.92	98	805574	42.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.62%
43) trans-1,3-Dichloropropene-	8.20	79	135304	41.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	83.86%
47) 2-Hexanone-d5	8.65	63	256931	85.85	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.85%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	432576	43.62	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	87.24%
64) 1,2-Dichlorobenzene-d4	12.20	152	295927	42.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	84.78%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	238988	43.223	ug/L	100
3) Chloromethane	1.53	50	313569	44.749	ug/L	100
5) Vinyl chloride	1.62	62	328702	46.165	ug/L	99
6) Bromomethane	1.86	94	144180	42.514	ug/L	100
8) Chloroethane	1.94	64	198245	46.296	ug/L	99
9) Trichlorofluoromethane	2.15	101	336581	45.482	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	193951	42.644	ug/L	98
12) 1,1-Dichloroethene	2.60	96	213717	45.917	ug/L	93
13) Acetone	2.65	43	290189	92.217	ug/L	99
14) Carbon disulfide	2.82	76	686310	44.514	ug/L	99
15) Methyl Acetate	2.98	43	323989	47.287	ug/L	99
16) Methylene chloride	3.08	84	262132	47.779	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	231265	46.021	ug/L	99
18) Methyl tert-butyl Ether	3.40	73	799903	47.840	ug/L	100
19) 1,1-Dichloroethane	3.91	63	474533	47.404	ug/L	99
20) cis-1,2-Dichloroethene	4.71	96	265460	47.775	ug/L	99
22) 2-Butanone	4.74	43	473762	93.020	ug/L	100

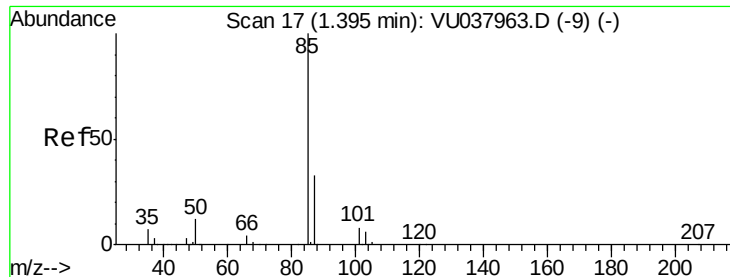
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU043020\
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 Quant Title : VOC Analysis
 QLast Update : Fri May 01 06:13:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	125623	48.064	ug/L	99
25) Chloroform	5.12	83	457452	47.605	ug/L	99
27) 1,2-Dichloroethane	5.83	62	376547	47.389	ug/L	99
29) Cyclohexane	5.42	56	387483	42.115	ug/L	100
30) 1,1,1-Trichloroethane	5.35	97	360547	46.065	ug/L	98
31) Carbon tetrachloride	5.56	117	284178	45.994	ug/L	99
33) Benzene	5.81	78	1030278	46.805	ug/L	100
34) Trichloroethene	6.57	95	244963	45.894	ug/L	99
35) Methylcyclohexane	6.79	83	358444	39.978	ug/L	99
37) 1,2-Dichloropropane	6.82	63	274126	46.580	ug/L	99
38) Bromodichloromethane	7.13	83	336845	47.141	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	423167	46.908	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	894687	93.829	ug/L	99
42) Toluene	7.99	91	1079776	46.690	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	393938	46.773	ug/L	98
45) 1,1,2-Trichloroethane	8.42	97	255596	47.953	ug/L	98
46) Tetrachloroethene	8.57	164	163037	41.836	ug/L	99
48) 2-Hexanone	8.70	43	742193	94.450	ug/L	98
49) Dibromochloromethane	8.83	129	245435	47.746	ug/L	99
50) 1,2-Dibromoethane	8.94	107	266684	46.577	ug/L	97
51) Chlorobenzene	9.47	112	668546	46.429	ug/L	98
52) Ethylbenzene	9.59	91	1189097	46.384	ug/L	99
53) m,p-Xylene	9.71	106	456528	46.902	ug/L	100
54) o-xylene	10.11	106	455434	47.523	ug/L	100
55) Styrene	10.13	104	774169	47.559	ug/L	99
56) Isopropylbenzene	10.50	105	1136775	46.068	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	442863	46.541	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	381497	46.752	ug/L	99
61) Bromoform	10.31	173	162728	45.583	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	499707	46.748	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	500207	46.311	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	499923	46.360	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	102009	45.321	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	334601	45.916	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	325852	46.650	ug/L	99
69) Naphthalene	14.11	128	1304006	48.660	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	332388	48.351	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 43.223 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

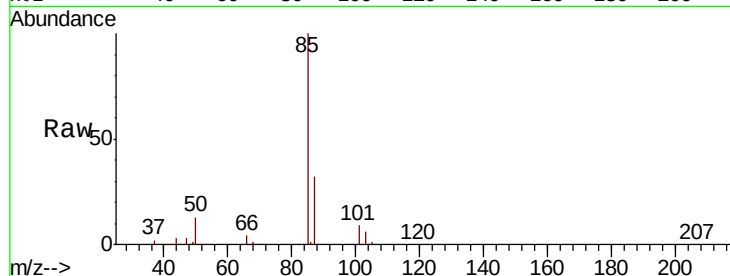
ClientSampled :

Tot Ion: 85 Resp: 238988

Ion Ratio Lower Upper

85 100

87 31.9 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU037963.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037963.D (-9) (-)

1.39

250000

200000

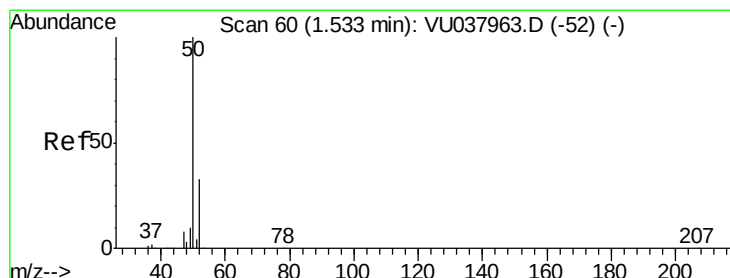
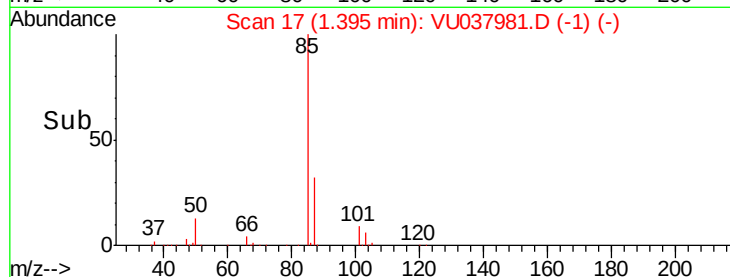
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 44.749 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037981.D

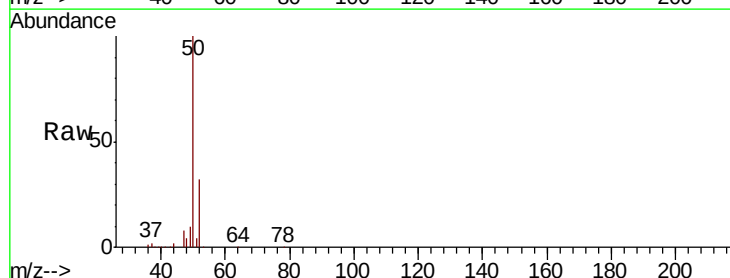
Acq: 01 May 2020 03:51

Tgt Ion: 50 Resp: 313569

Ion Ratio Lower Upper

50 100

52 32.4 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU037963.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037963.D (-52) (-)

1.53

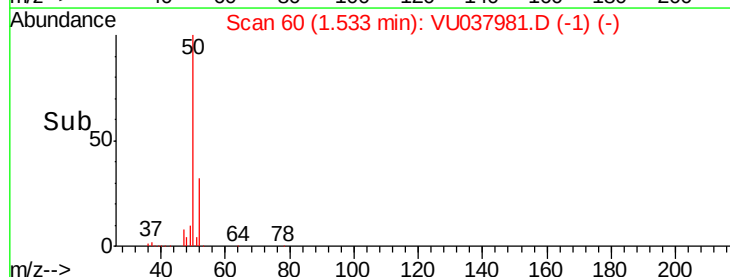
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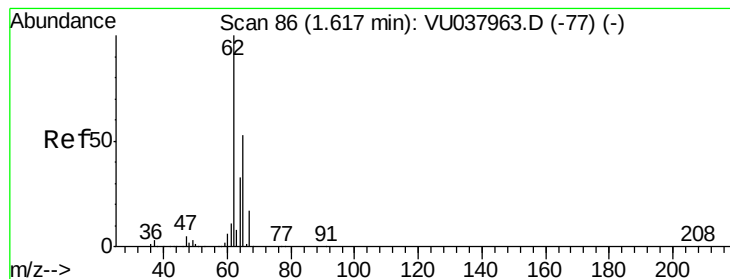
200000

100000

0

Time-->





#5

Vinyl chloride

Concen: 46.165 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

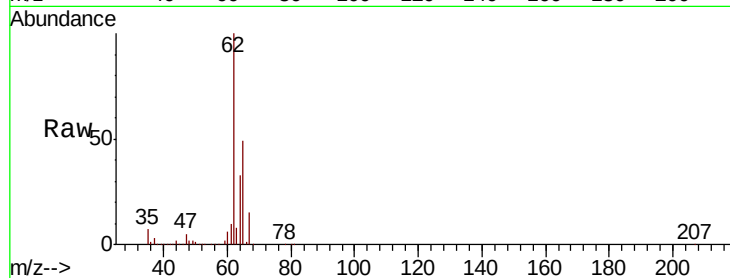
ClientSampleId :

Tot Ion: 62 Resp: 328702

Ion Ratio Lower Upper

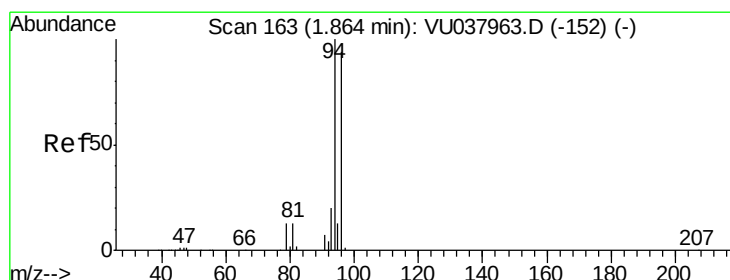
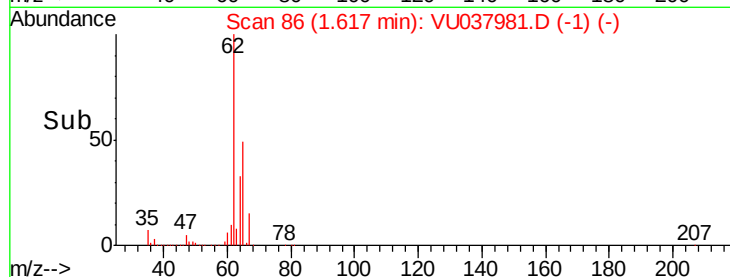
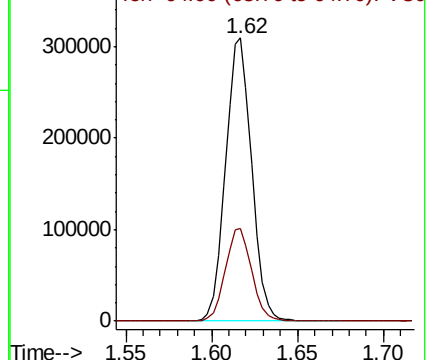
62 100

64 32.8 23.2 43.2



Abundance Ion 62.00 (61.70 to 62.70): VU037981.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU037981.D (-77) (-)



#6

Bromomethane

Concen: 42.514 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU037981.D

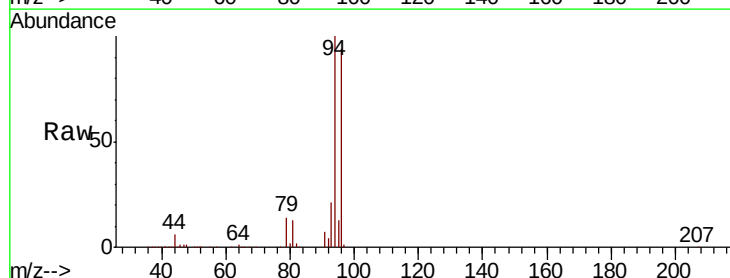
Acq: 01 May 2020 03:51

Tgt Ion: 94 Resp: 144180

Ion Ratio Lower Upper

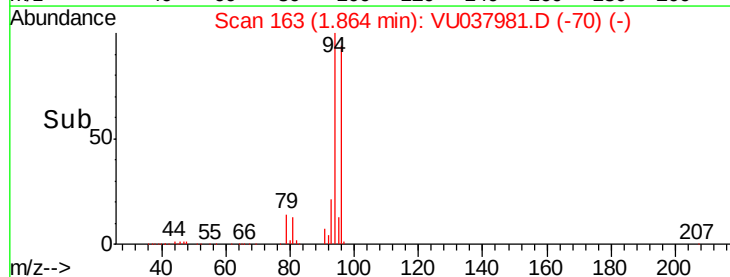
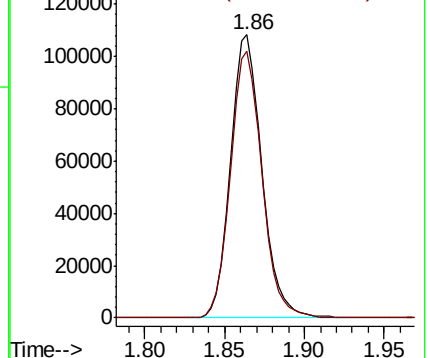
94 100

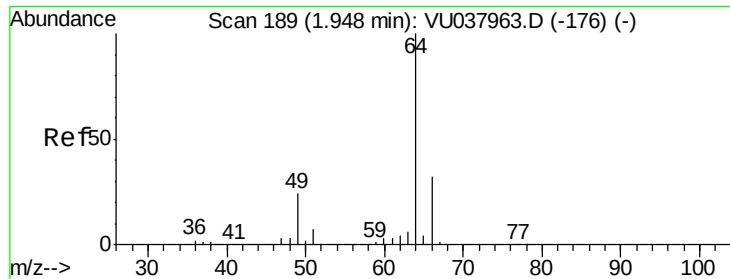
96 94.4 65.9 122.5



Abundance Ion 94.00 (93.70 to 94.70): VU037981.D (-70) (-)

Ion 96.00 (95.70 to 96.70): VU037981.D (-70) (-)





#8

Chloroethane

Concen: 46.296 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

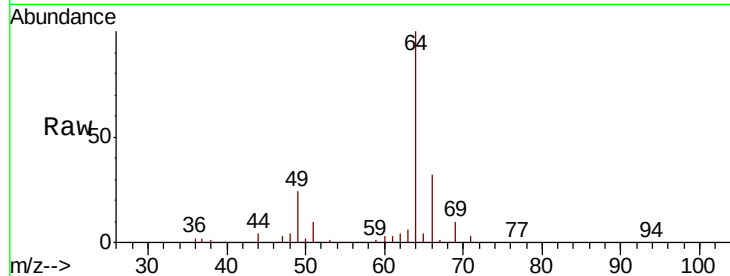
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 64 Resp: 198245

Ion Ratio Lower Upper

64 100

66 31.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU037963.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU037963.D (-176) (-)

1.94

150000

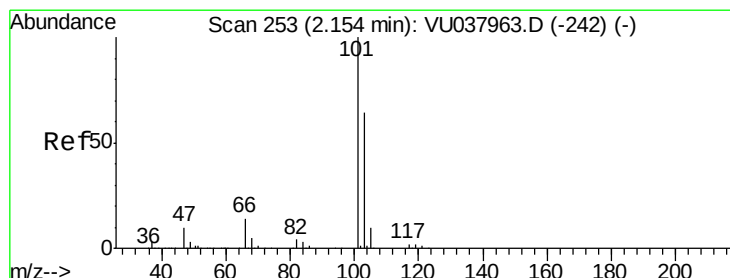
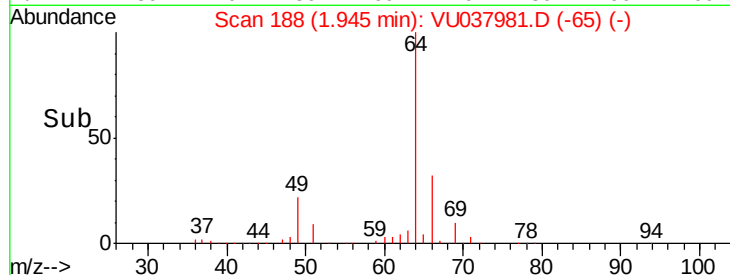
100000

50000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 45.482 ug/L

RT: 2.15 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU037981.D

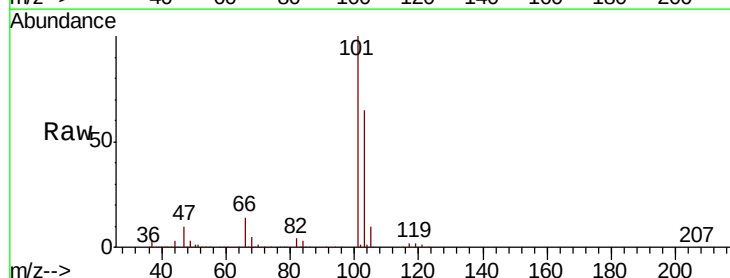
Acq: 01 May 2020 03:51

Tgt Ion:101 Resp: 336581

Ion Ratio Lower Upper

101 100

103 63.3 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU037963.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU037963.D (-242) (-)

2.15

250000

200000

150000

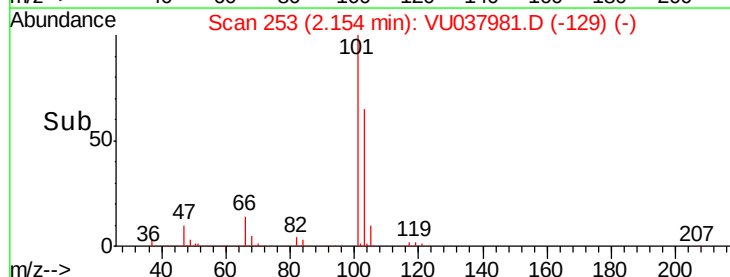
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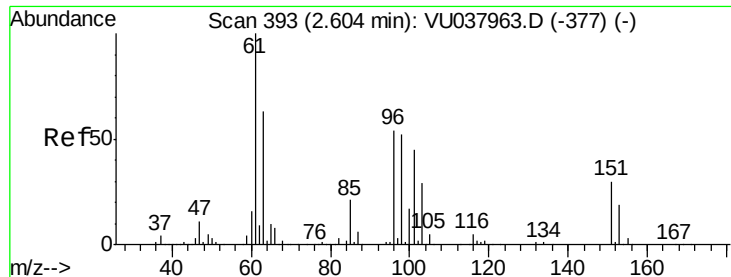
50000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 42.644 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampled :

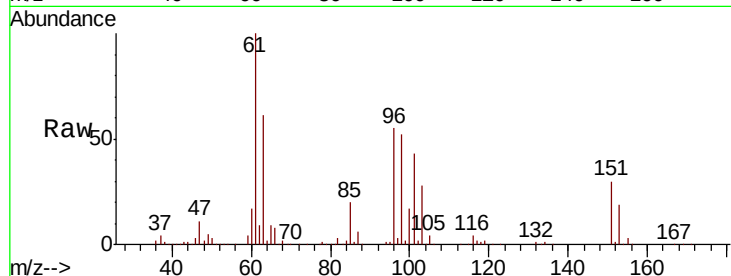
Tot Ion:101 Resp: 193951

Ion Ratio Lower Upper

101 100

85 45.1 34.7 52.1

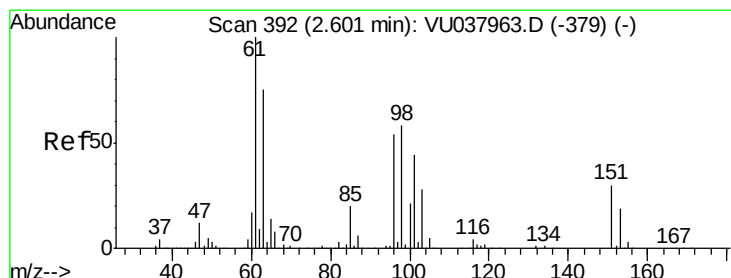
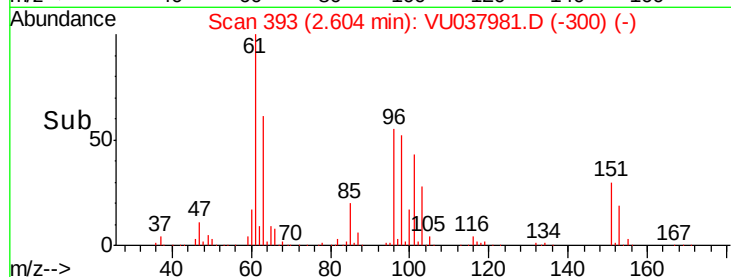
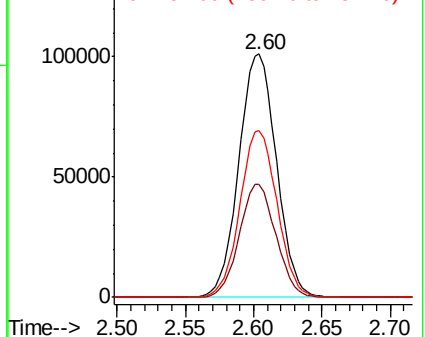
151 67.6 53.4 80.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 45.917 ug/L

RT: 2.60 min Scan# 392

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

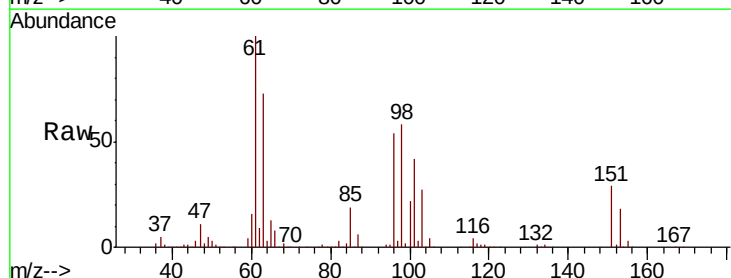
Tgt Ion: 96 Resp: 213717

Ion Ratio Lower Upper

96 100

61 184.1 126.1 234.3

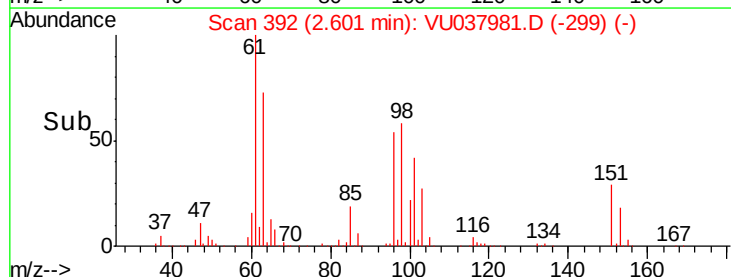
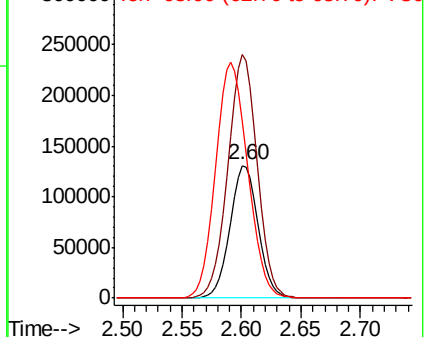
63 133.8 83.4 154.8

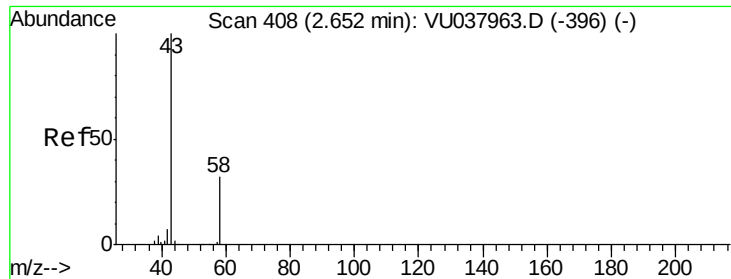


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 92.217 ug/L

RT: 2.65 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

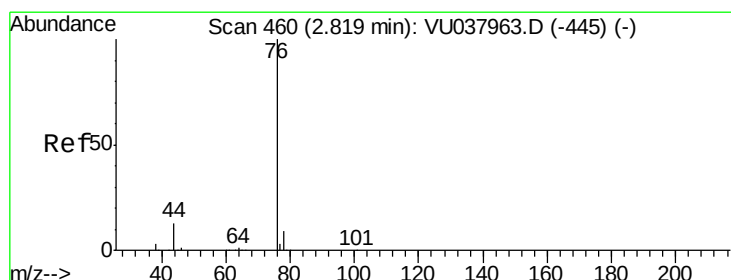
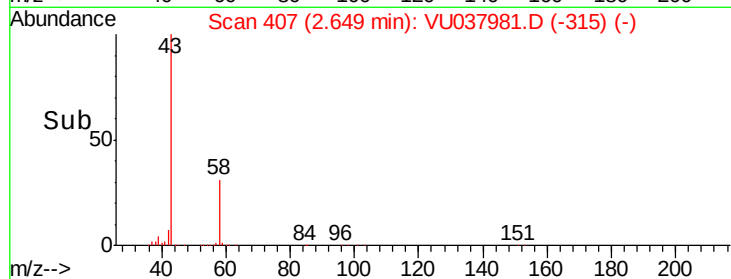
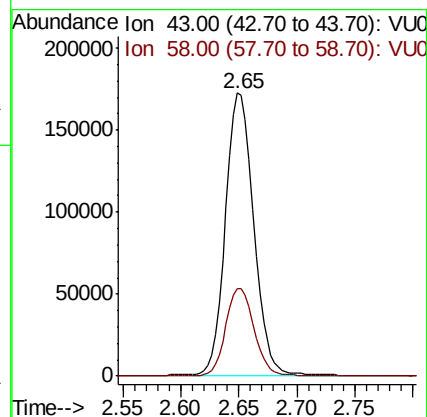
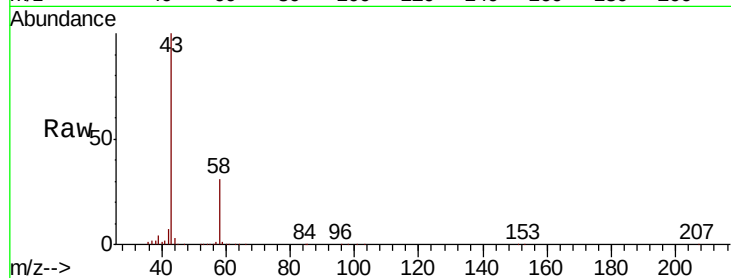
ClientSampleId :

Tot Ion: 43 Resp: 290189

Ion Ratio Lower Upper

43 100

58 31.4 0.0 64.4



#14

Carbon disulfide

Concen: 44.514 ug/L

RT: 2.82 min Scan# 459

Delta R.T. -0.00 min

Lab File: VU037981.D

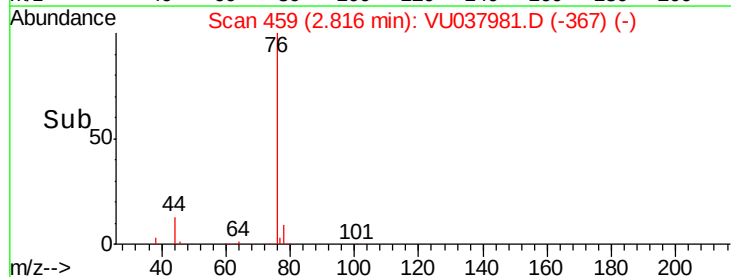
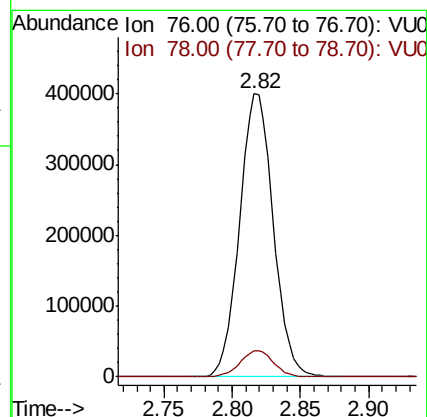
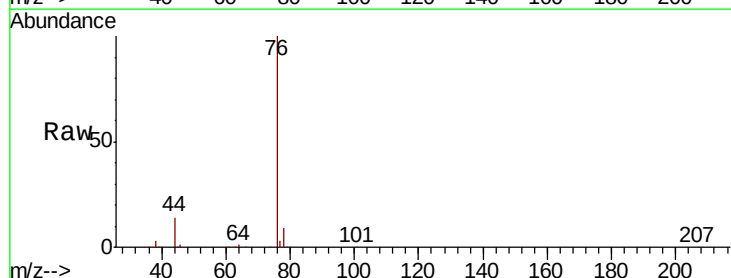
Acq: 01 May 2020 03:51

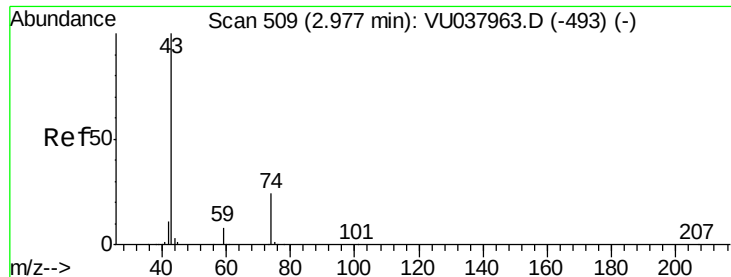
Tgt Ion: 76 Resp: 686310

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.4

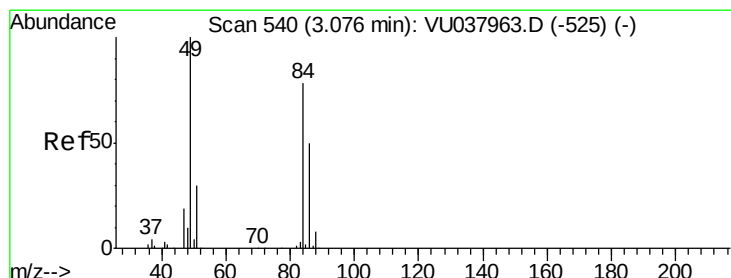
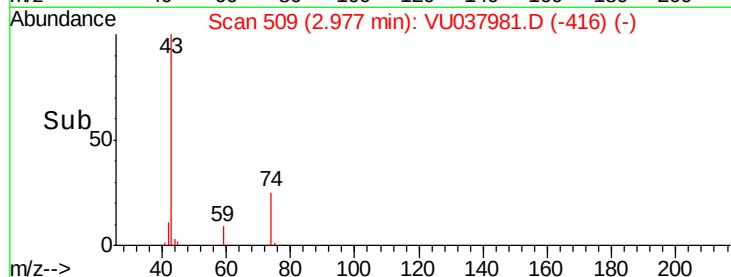
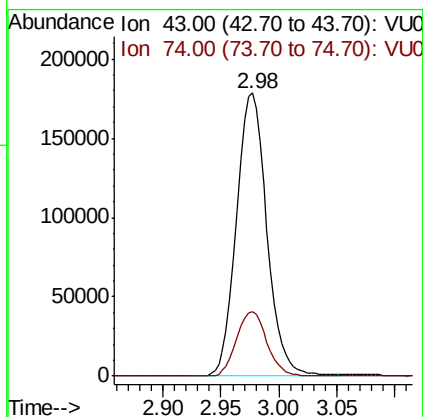
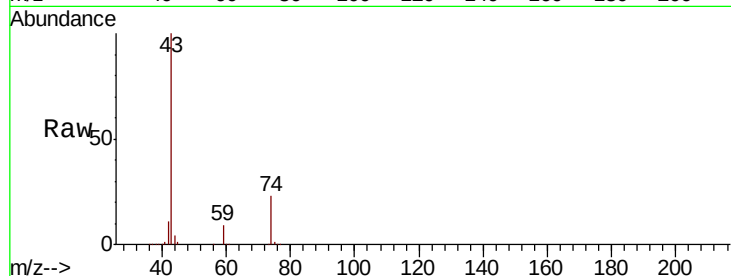




#15
Methvl Acetate
Concen: 47.287 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

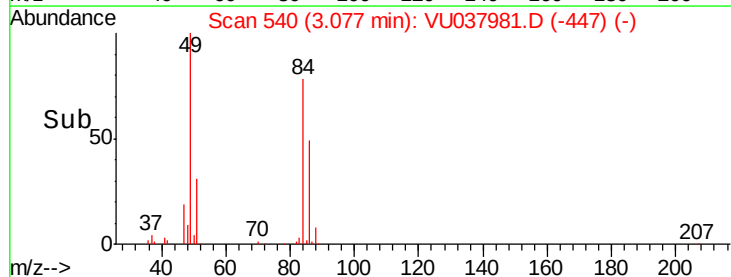
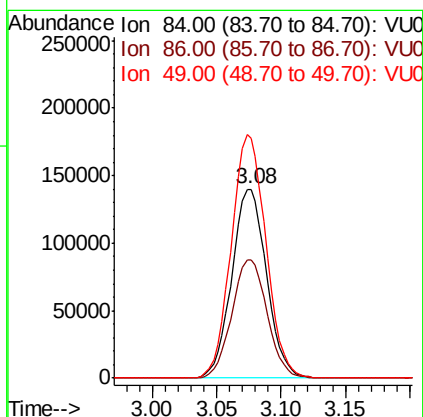
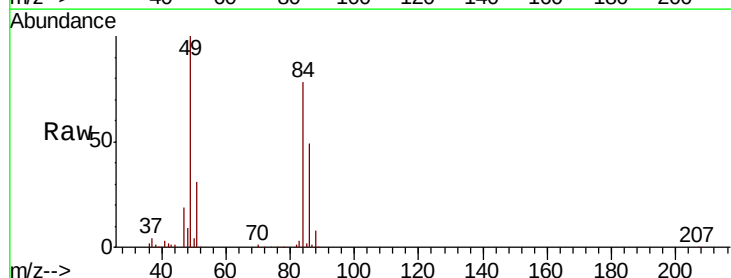
Instrument :
MSVOA_U
ClientSampled :

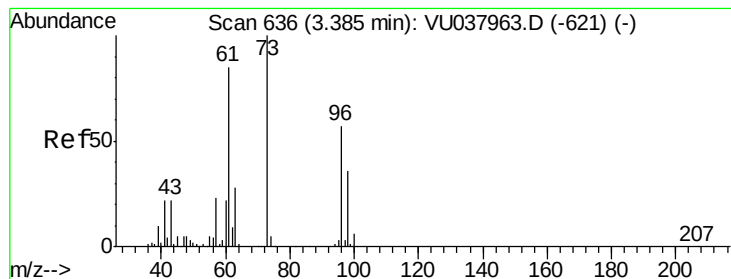
Tot Ion: 43 Resp: 323989
Ion Ratio Lower Upper
43 100
74 22.9 18.6 27.8



#16
Methylene chloride
Concen: 47.779 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

Tgt Ion: 84 Resp: 262132
Ion Ratio Lower Upper
84 100
86 62.9 45.1 83.9
49 127.4 91.2 169.4





#17

trans-1,2-Dichloroethene

Concen: 46.021 ug/L

RT: 3.39 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampled :

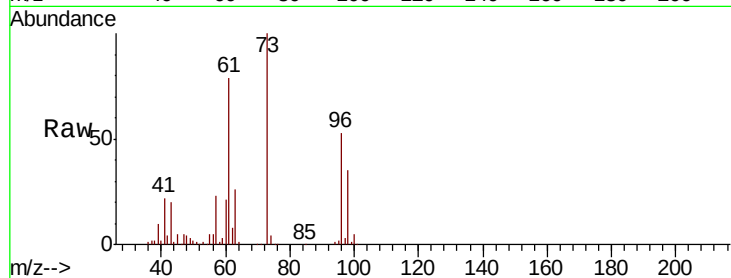
Tot Ion: 96 Resp: 231265

Ion Ratio Lower Upper

96 100

61 149.6 104.9 194.9

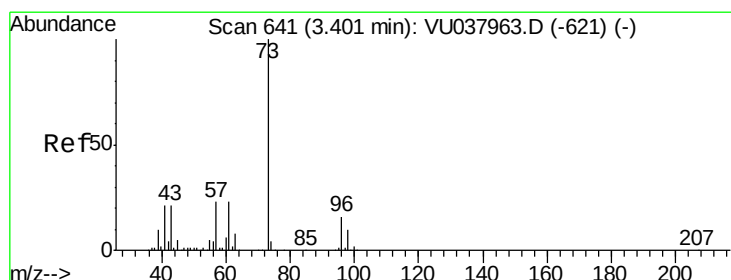
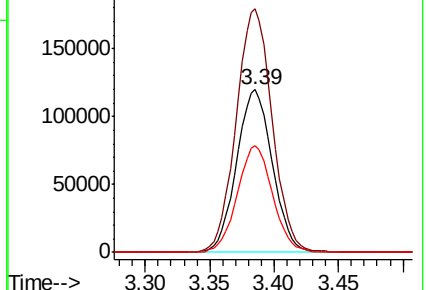
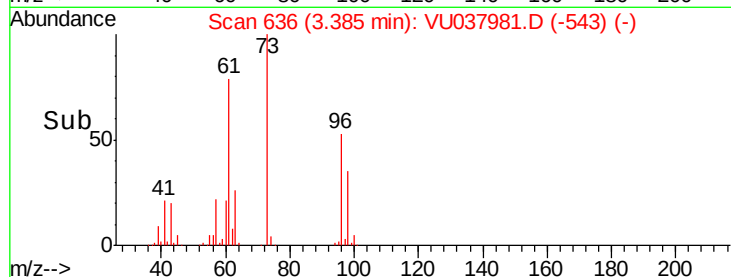
98 65.9 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VU037981.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037981.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037981.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 47.840 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

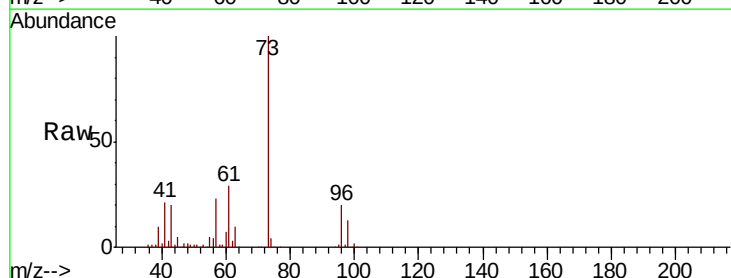
Tgt Ion: 73 Resp: 799903

Ion Ratio Lower Upper

73 100

43 20.5 16.3 24.5

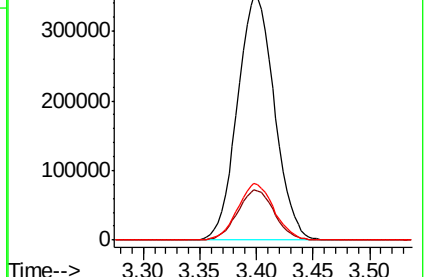
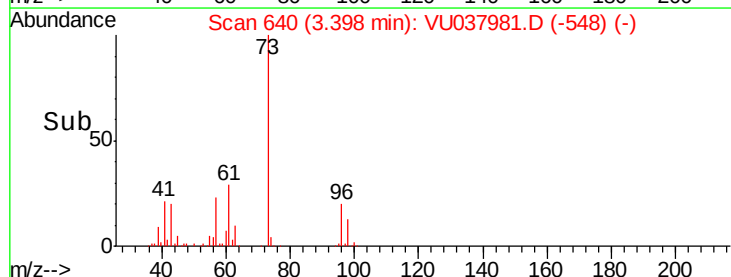
57 22.8 18.4 27.6

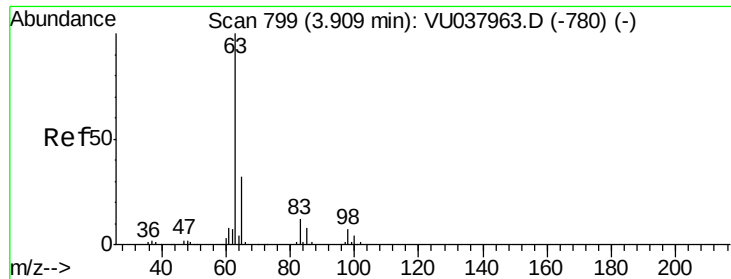


Abundance Ion 73.00 (72.70 to 73.70): VU037981.D (-548) (-)

Ion 43.00 (42.70 to 43.70): VU037981.D (-548) (-)

Ion 57.00 (56.70 to 57.70): VU037981.D (-548) (-)

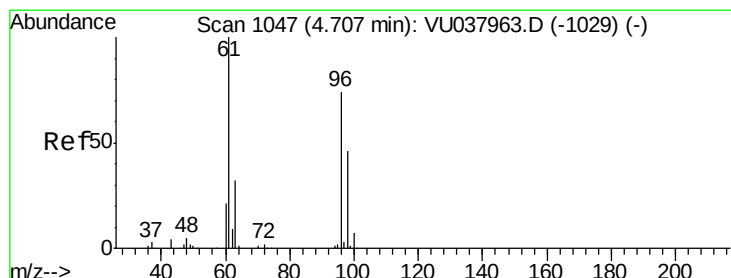
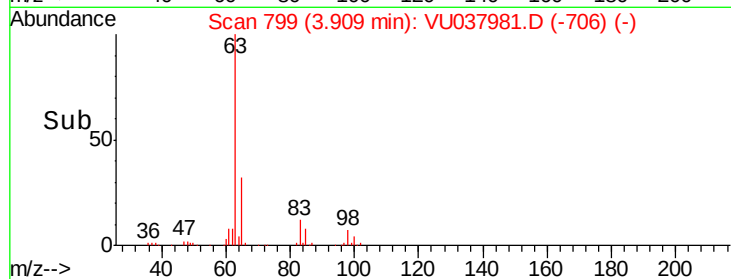
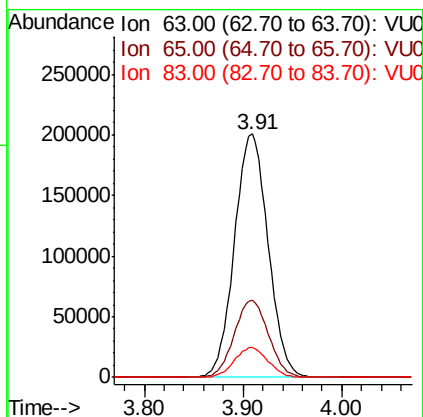
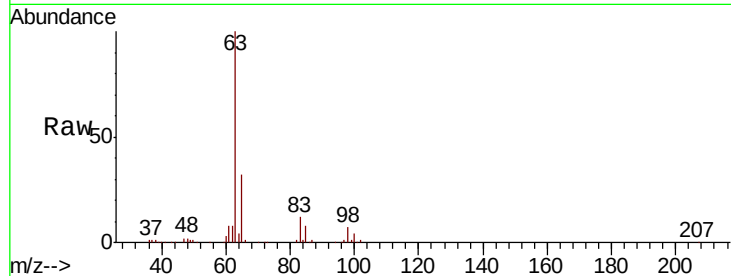




#19
 1,1-Dichloroethane
 Concen: 47.404 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

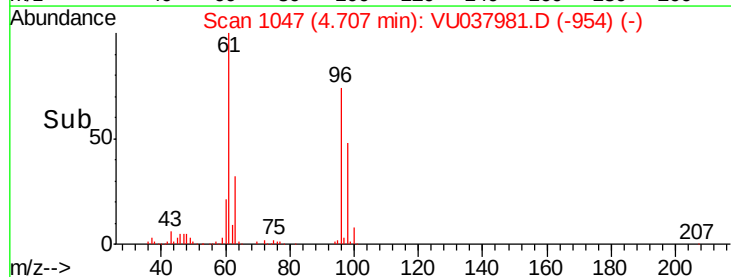
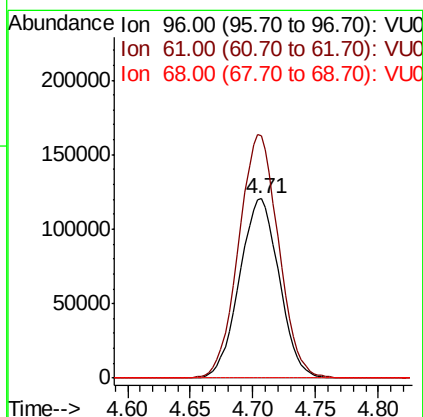
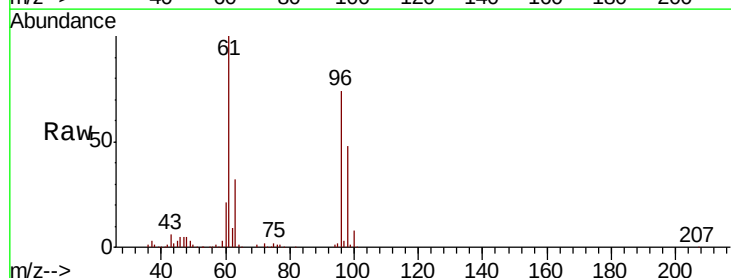
Instrument :
 MSVOA_U
 ClientSampled :

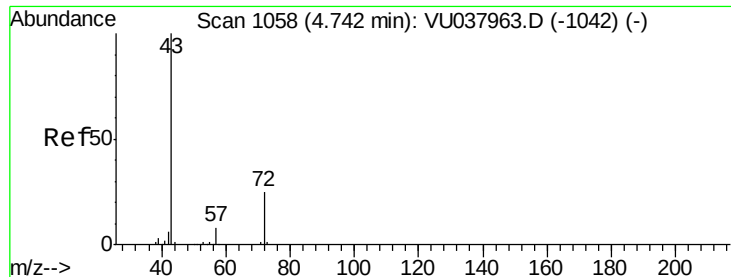
Tot Ion	63	Resp	474533
Ion Ratio	Lower	Upper	
63	100		
65	31.6	22.5	41.7
83	12.2	8.5	15.7



#20
 cis-1,2-Dichloroethene
 Concen: 47.775 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion	96	Resp	265460
Ion Ratio	Lower	Upper	
96	100		
61	134.8	93.9	174.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 93.020 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

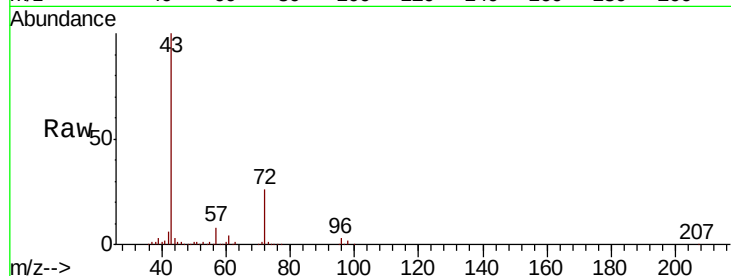
ClientSampleId :

Tot Ion: 43 Resp: 473762

Ion Ratio Lower Upper

43 100

72 26.8 13.4 40.1



Abundance Ion 43.00 (42.70 to 43.70): VU037981.D (-965) (-)

Ion 72.00 (71.70 to 72.70): VU037981.D (-965) (-)

4.74

200000

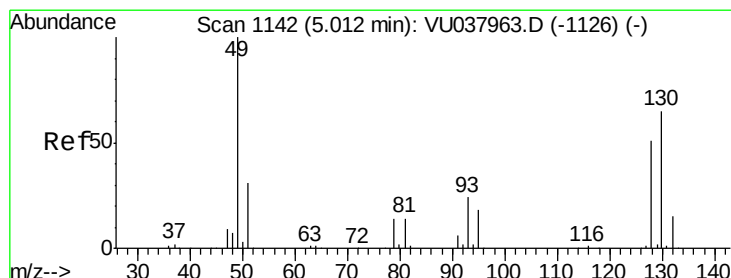
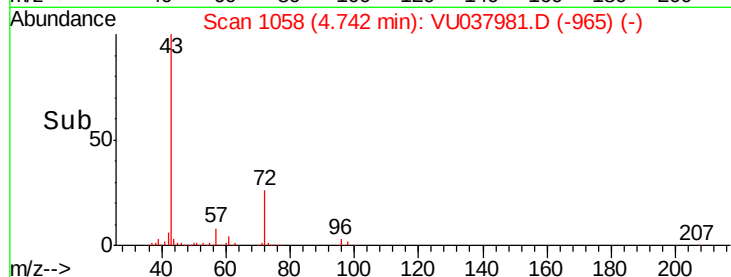
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 48.064 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Tgt Ion: 128 Resp: 125623

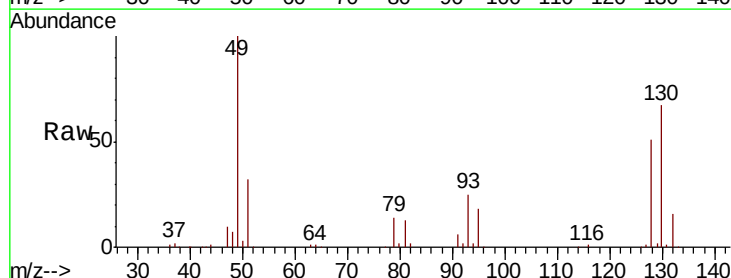
Ion Ratio Lower Upper

128 100

49 195.6 136.2 252.9

130 130.9 91.3 169.5

51 63.3 49.0 73.6



Abundance Ion 128.00 (127.70 to 128.70): VU037981.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037981.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037981.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037981.D (-1049) (-)

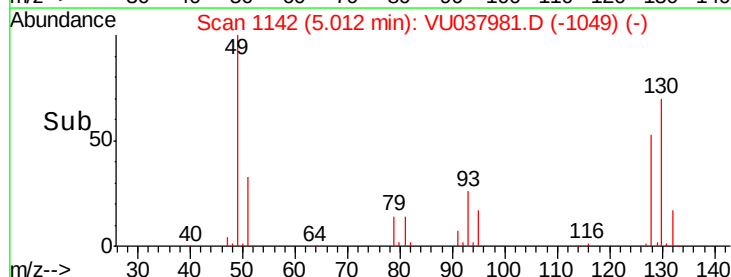
150000

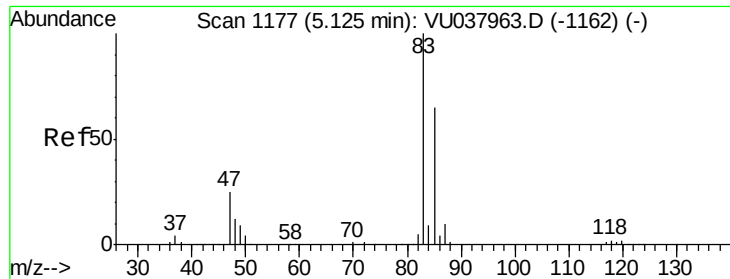
100000

50000

0

Time-->

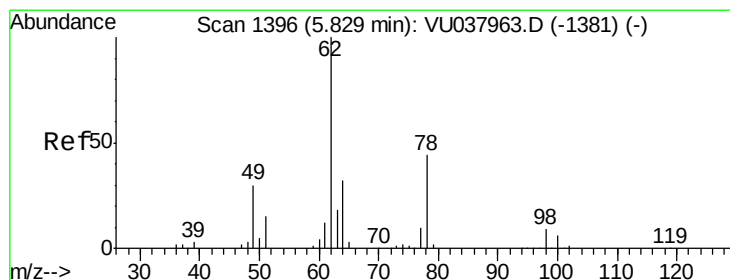
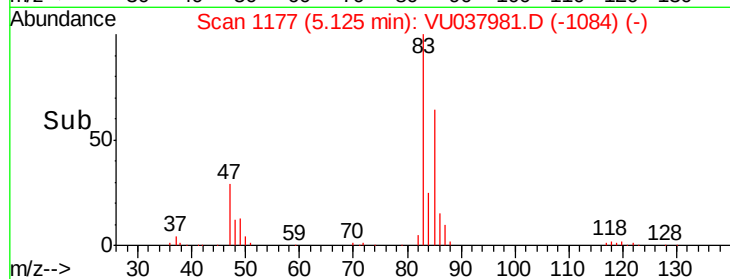
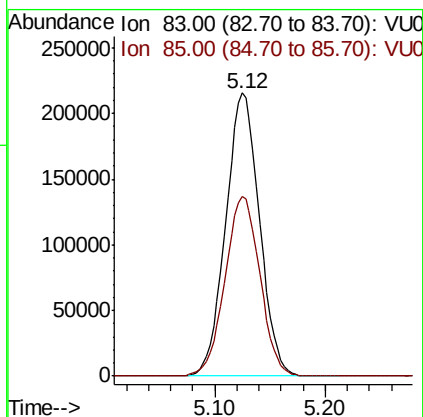
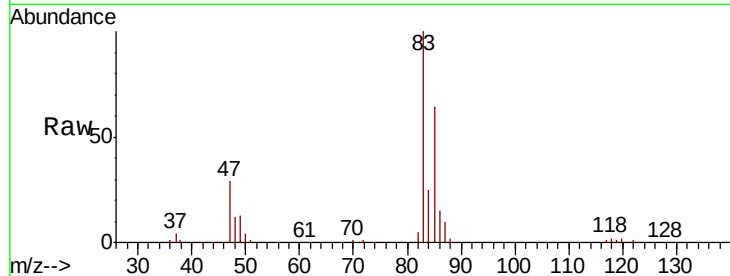




#25
Chloroform
Concen: 47.605 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

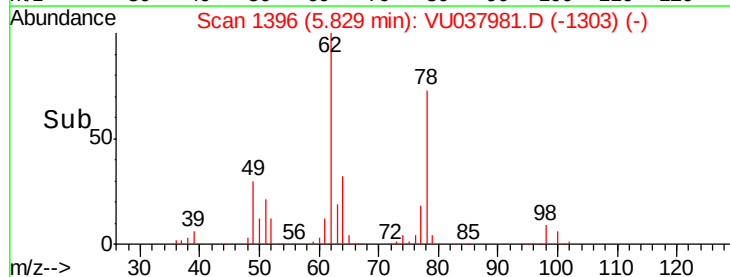
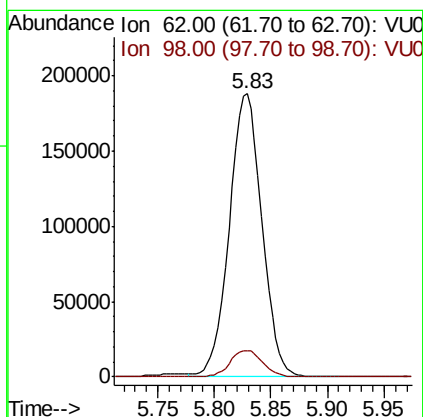
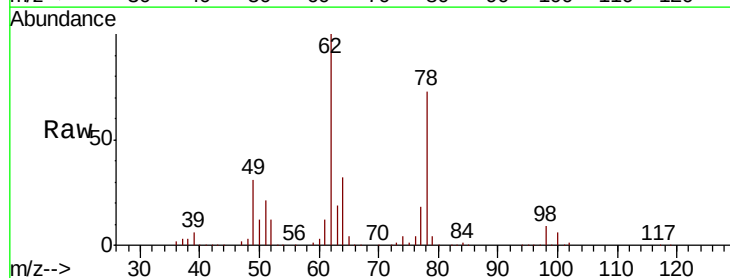
Instrument :
MSVOA_U
ClientSampleId :

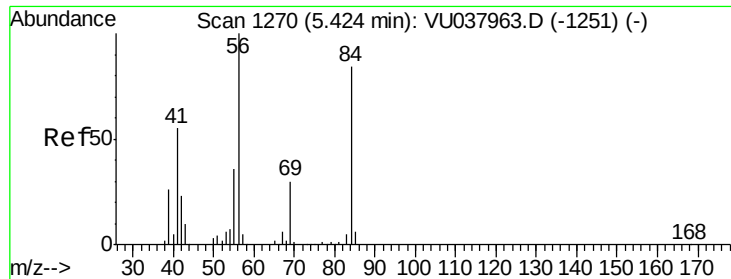
Tot Ion: 83 Resp: 457452
Ion Ratio Lower Upper
83 100
85 63.5 45.0 83.6



#27
1,2-Dichloroethane
Concen: 47.389 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

Tgt Ion: 62 Resp: 376547
Ion Ratio Lower Upper
62 100
98 9.2 7.6 11.4

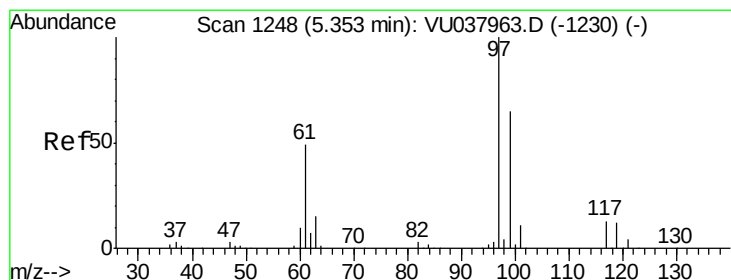
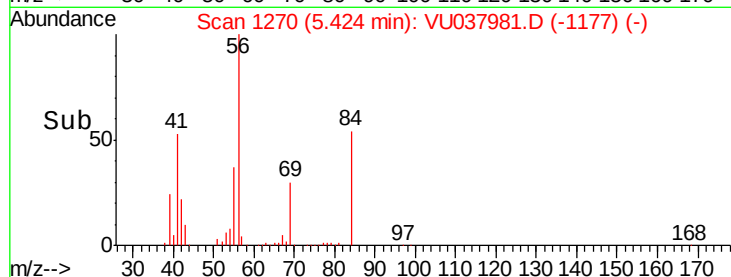
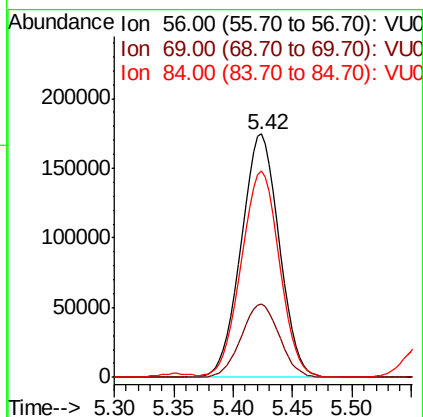
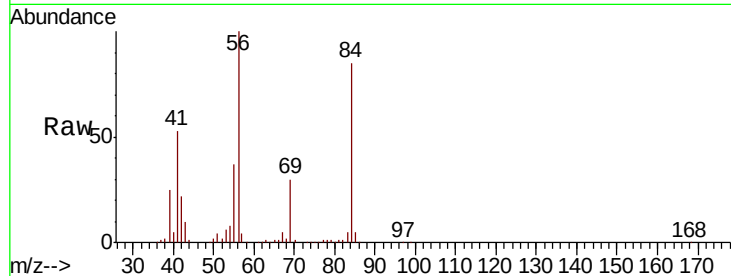




#29
Cyclohexane
Concen: 42.115 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

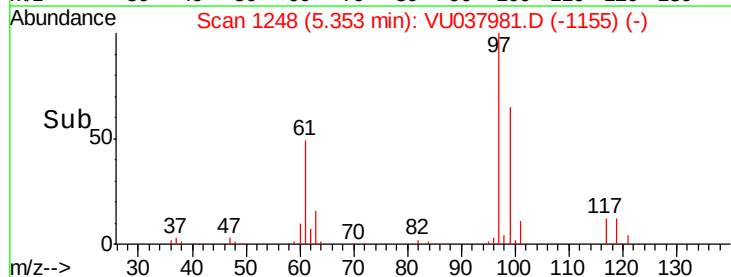
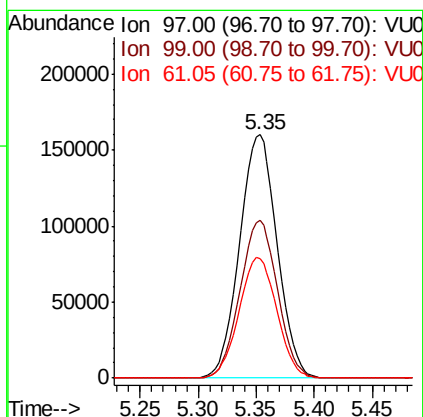
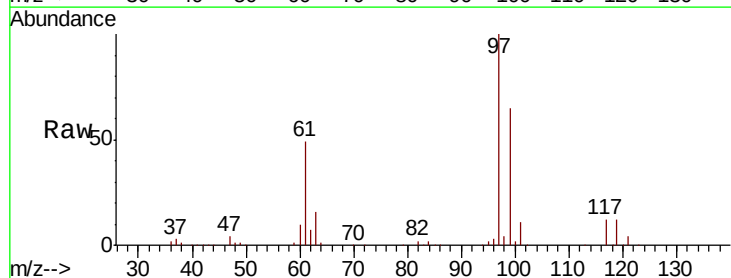
Instrument :
MSVOA_U
ClientSampled :

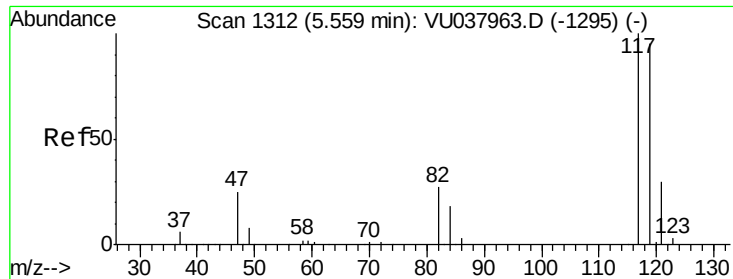
Tot Ion: 56 Resp: 387483
Ion Ratio Lower Upper
56 100
69 30.1 23.8 35.8
84 85.1 68.2 102.4



#30
1,1,1-Trichloroethane
Concen: 46.065 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

Tgt Ion: 97 Resp: 360547
Ion Ratio Lower Upper
97 100
99 64.7 50.5 75.7
61 49.8 38.8 58.2

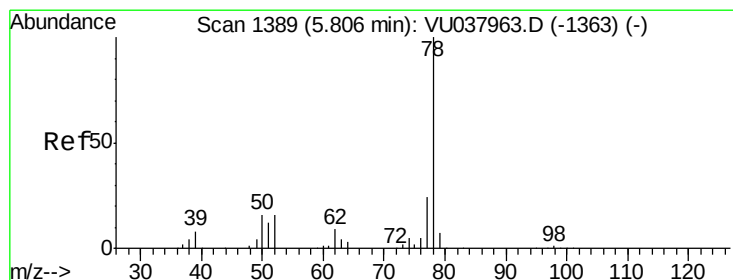
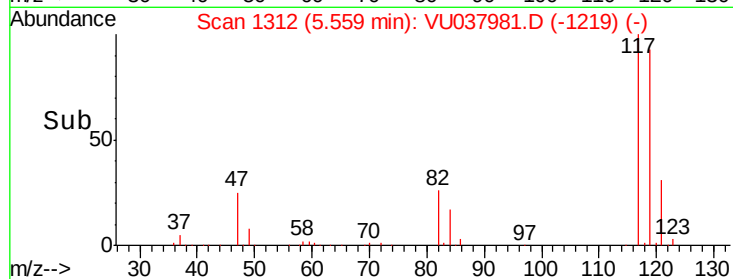
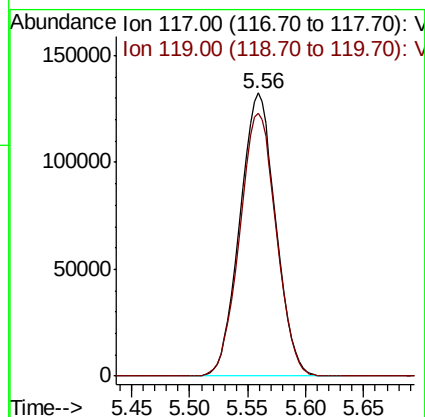
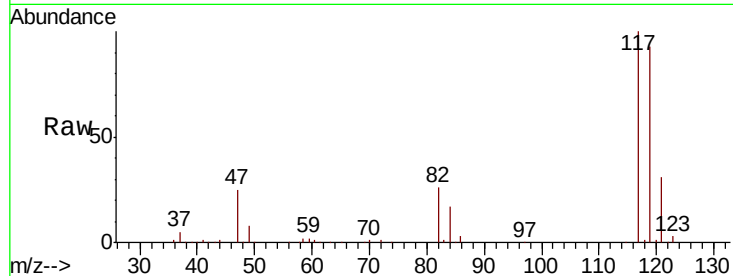




#31
Carbon tetrachloride
Concen: 45.994 ug/L
RT: 5.56 min Scan# 1312
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

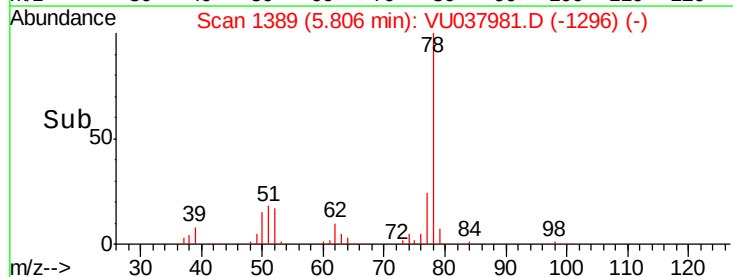
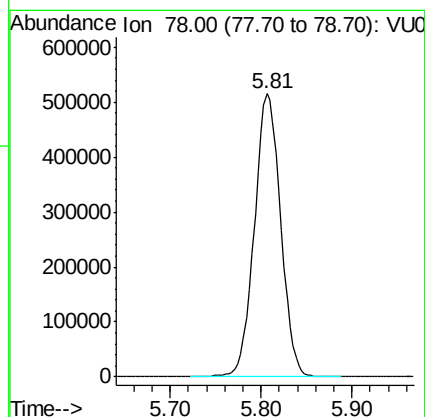
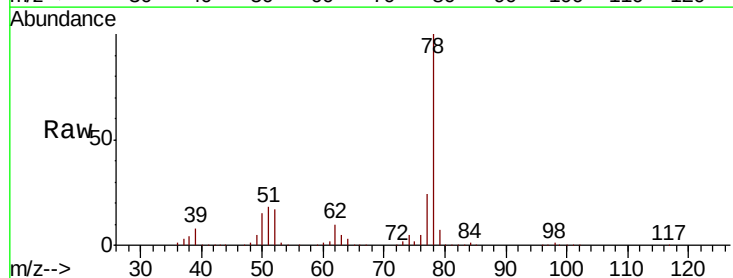
Instrument :
MSVOA_U
ClientSampleId :

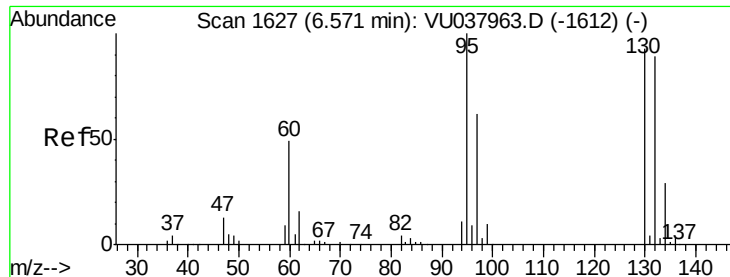
Tot Ion:117 Resp: 284178
Ion Ratio Lower Upper
117 100
119 94.9 76.7 115.1



#33
Benzene
Concen: 46.805 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

Tgt Ion: 78 Resp: 1030278





#34

Trichloroethene

Concen: 45.894 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 244963

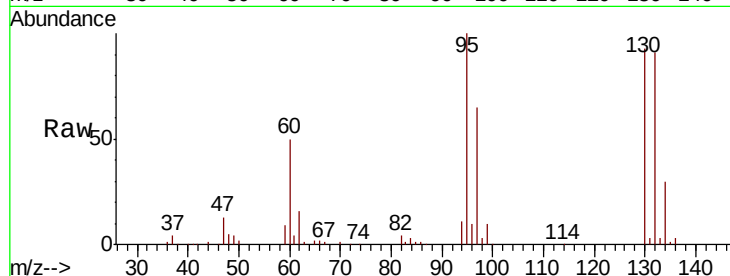
Ion Ratio Lower Upper

95 100

97 64.9 44.9 83.5

132 90.9 63.2 117.4

130 93.3 65.9 122.3

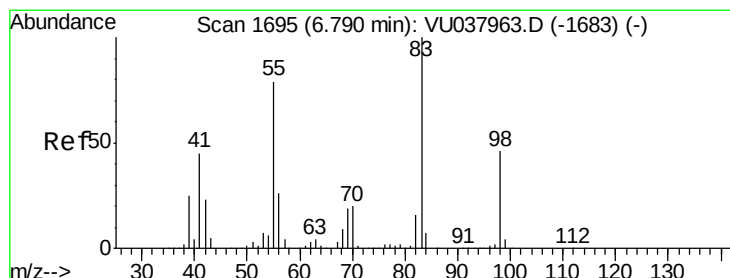
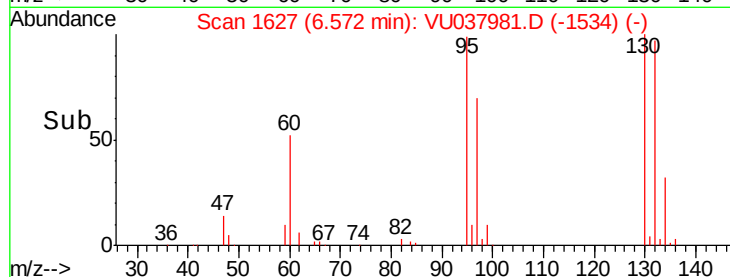
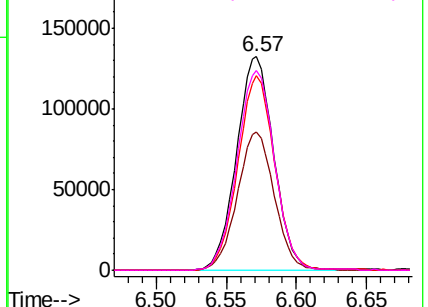


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 39.978 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

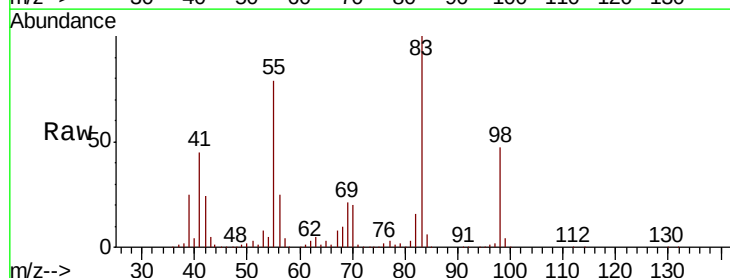
Tgt Ion: 83 Resp: 358444

Ion Ratio Lower Upper

83 100

55 79.5 64.2 96.4

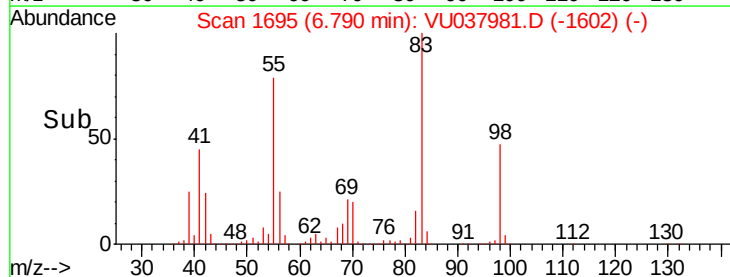
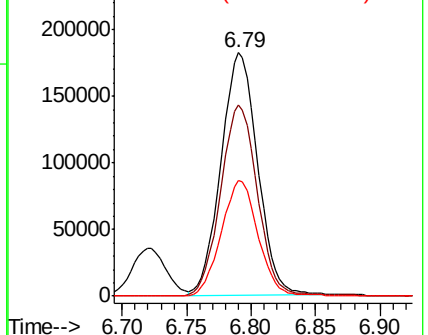
98 48.4 38.1 57.1

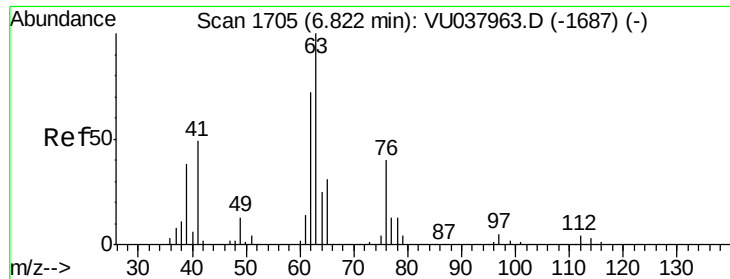


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

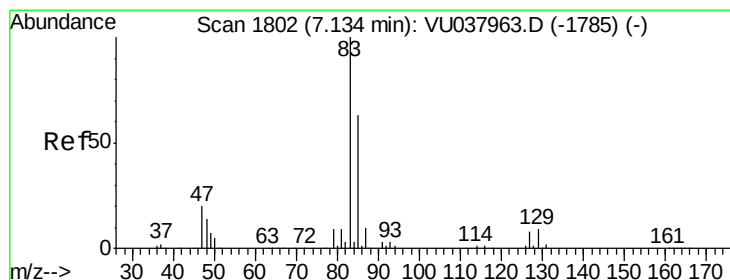
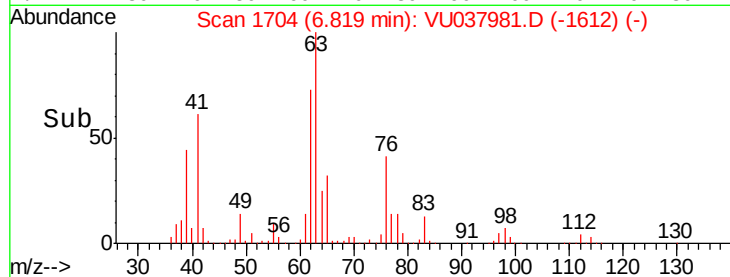
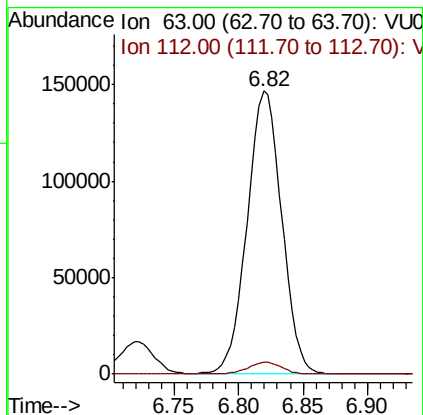
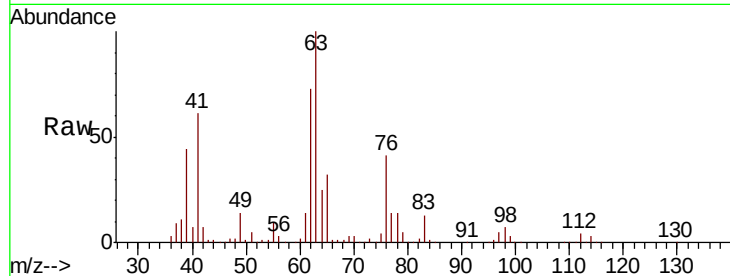




#37
 1,2-Dichloropropane
 Concen: 46.580 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

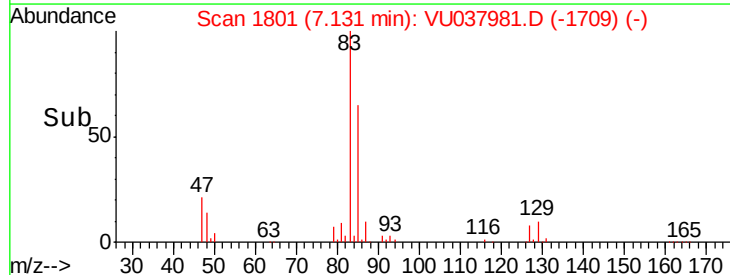
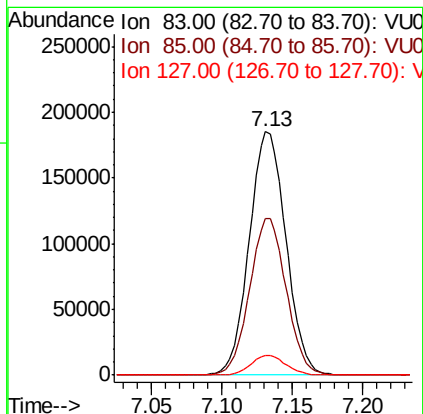
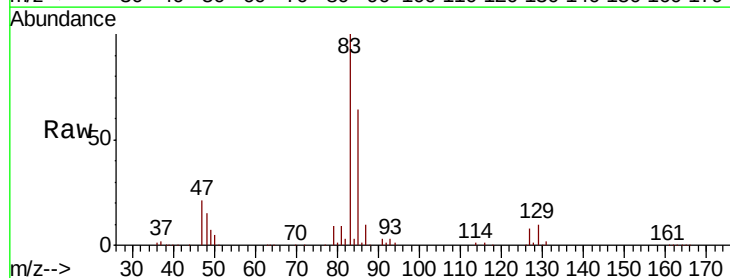
Instrument :
 MSVOA_U
 ClientSampleId :

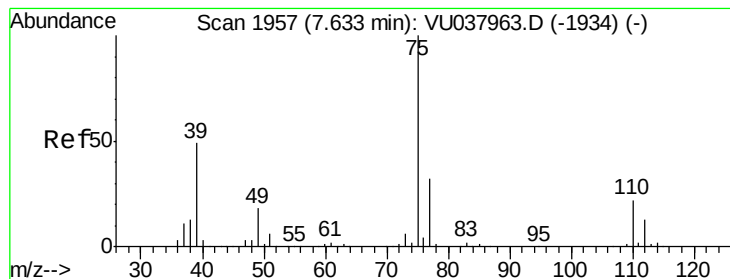
Tot Ion: 63 Resp: 274126
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.1 4.7



#38
 Bromodichloromethane
 Concen: 47.141 ug/L
 RT: 7.13 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion: 83 Resp: 336845
 Ion Ratio Lower Upper
 83 100
 85 64.1 43.8 81.3
 127 8.0 6.1 9.1



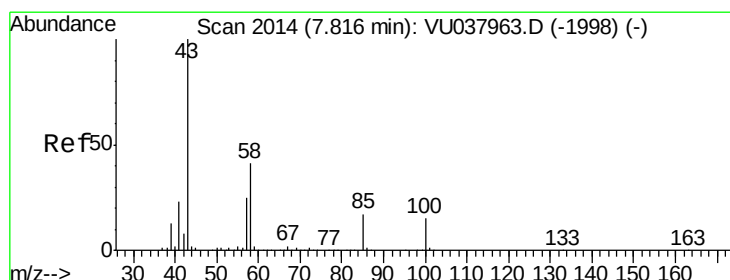
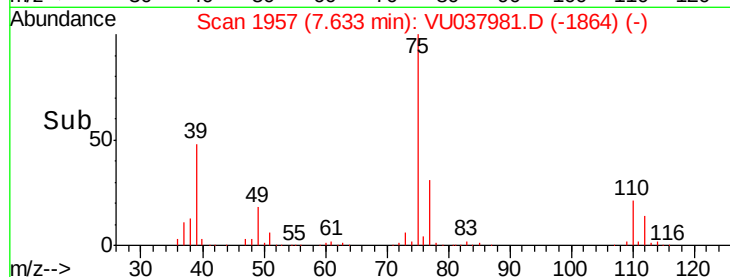
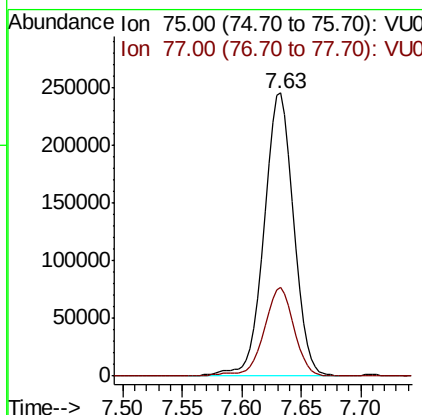
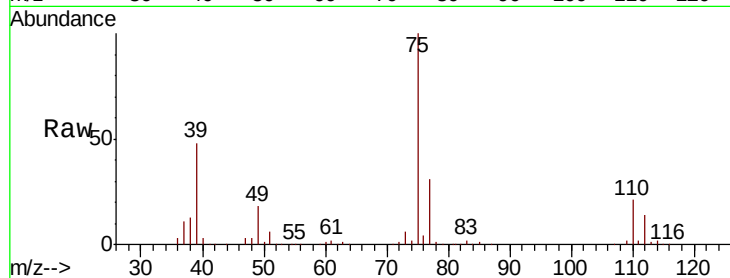


#39

cis-1,3-Dichloropropene
 Concen: 46.908 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Instrument :
 MSVOA_U
 ClientSampled :

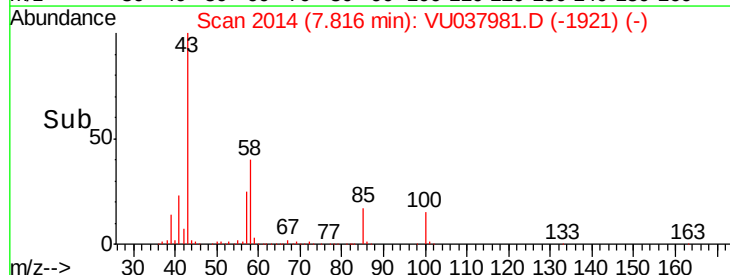
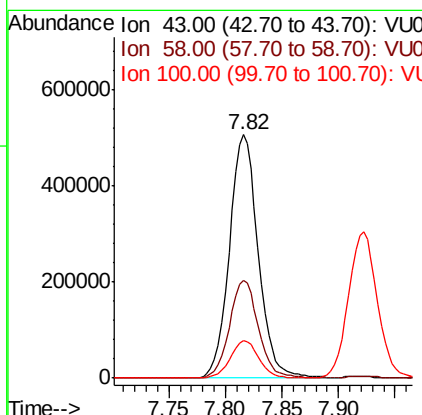
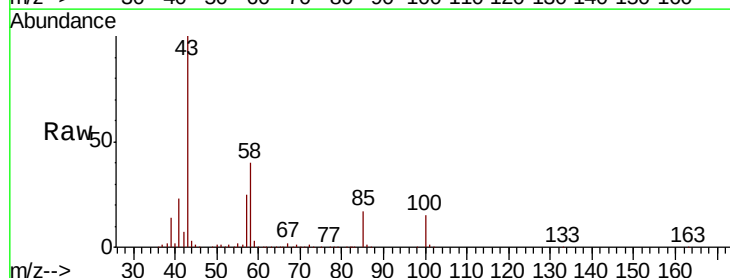
Tot Ion: 75 Resp: 423167
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.6 42.0

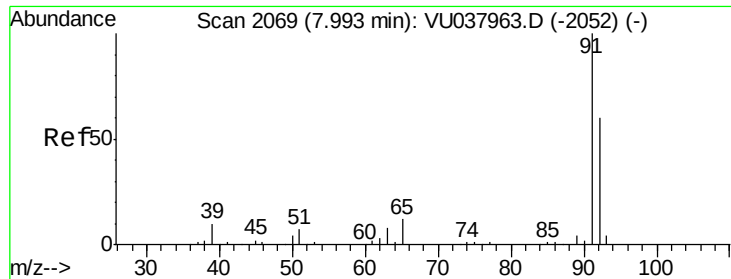


#40

4-Methyl-2-pentanone
 Concen: 93.829 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion: 43 Resp: 894687
 Ion Ratio Lower Upper
 43 100
 58 40.4 31.8 47.8
 100 15.2 12.2 18.2





#42

Toluene

Concen: 46.690 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

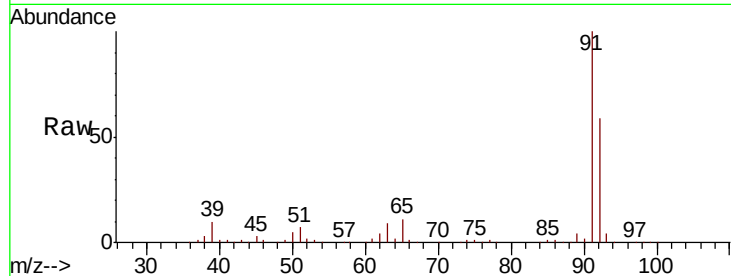
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1079776

Ion Ratio Lower Upper

91 100

92 59.4 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VU037963.D (-2052) (-)

Ion 92.00 (91.70 to 92.70): VU037963.D (-2052) (-)

7.99

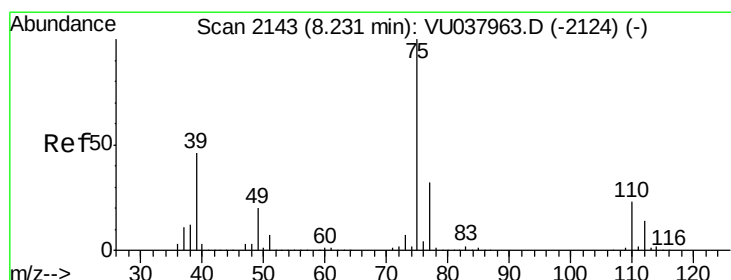
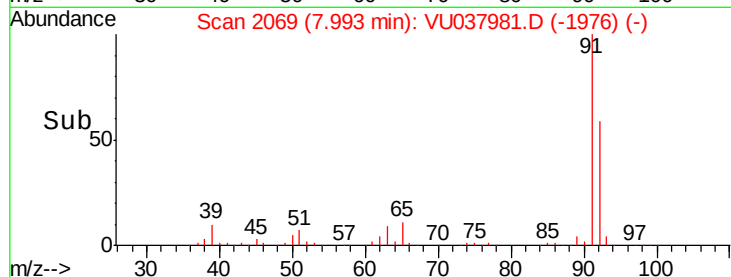
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.773 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VU037981.D

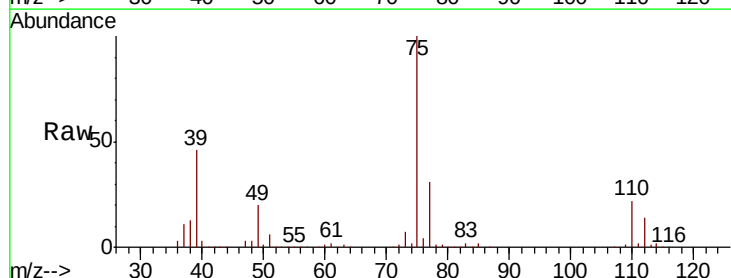
Acq: 01 May 2020 03:51

Tgt Ion: 75 Resp: 393938

Ion Ratio Lower Upper

75 100

77 31.4 21.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VU037963.D (-2124) (-)

Ion 77.00 (76.70 to 77.70): VU037963.D (-2124) (-)

8.23

250000

200000

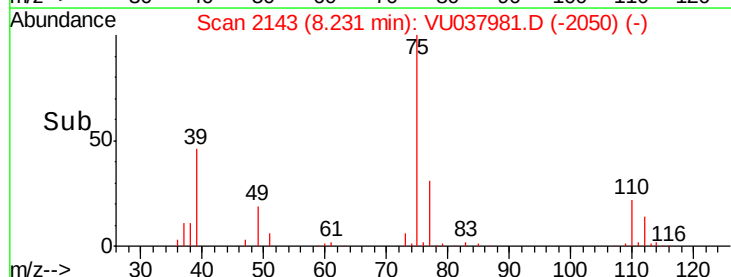
150000

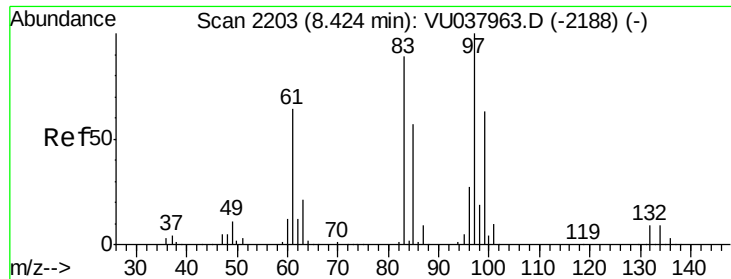
100000

50000

0

Time-->

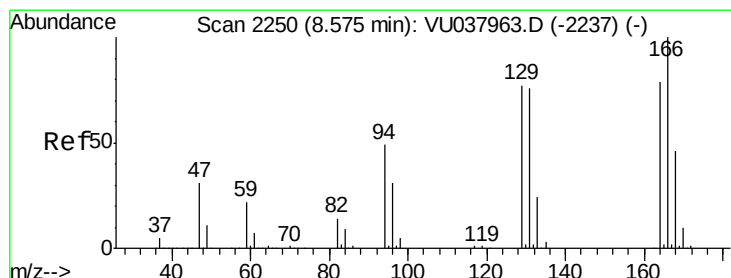
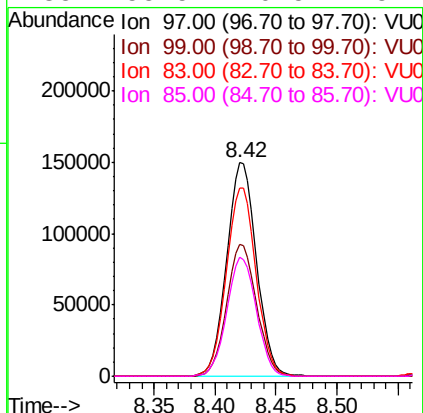
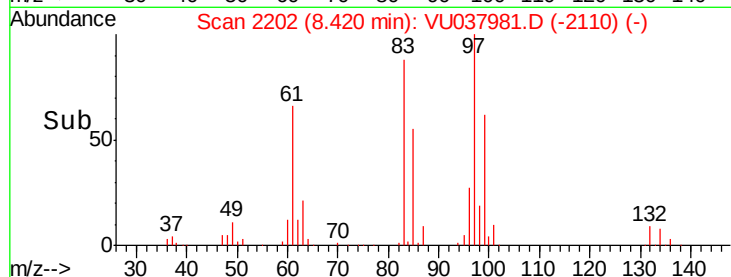
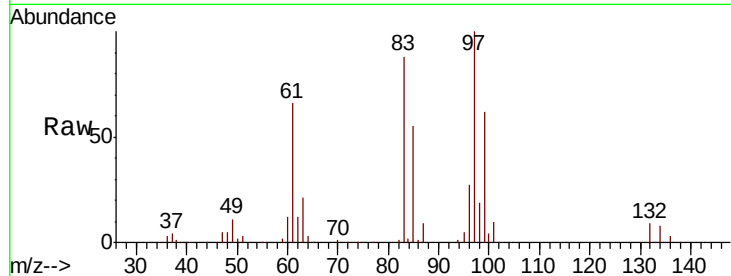




#45
 1,1,2-Trichloroethane
 Concen: 47.953 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. -0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

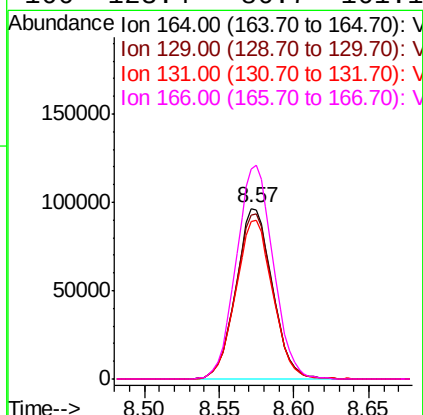
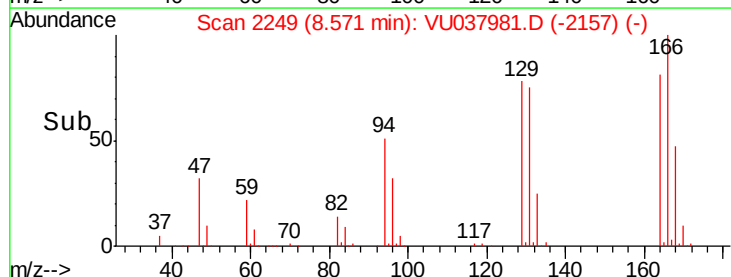
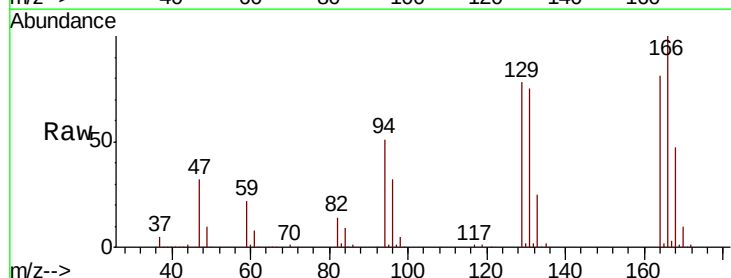
Instrument :
 MSVOA_U
 ClientSampleId :

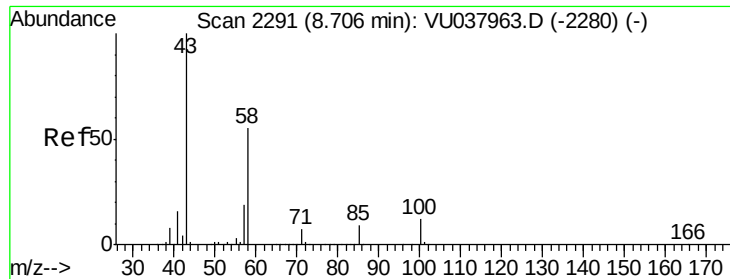
Tot Ion:	97	Resp:	255596
Ion	Ratio	Lower	Upper
97	100		
99	61.8	44.4	82.4
83	88.4	61.9	115.1
85	55.5	40.5	75.1



#46
 Tetrachloroethene
 Concen: 41.836 ug/L
 RT: 8.57 min Scan# 2249
 Delta R.T. -0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion:	164	Resp:	163037
Ion	Ratio	Lower	Upper
164	100		
129	96.3	68.4	127.0
131	92.2	65.7	122.1
166	123.4	86.7	161.1

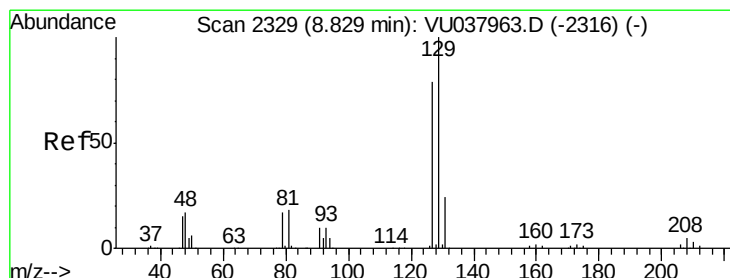
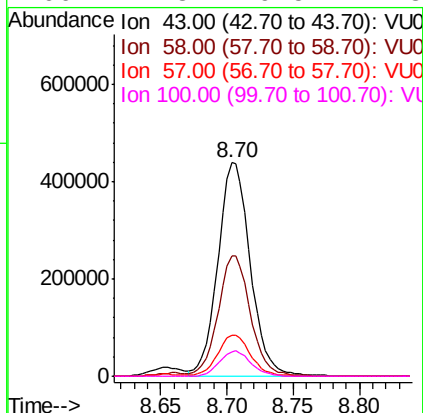
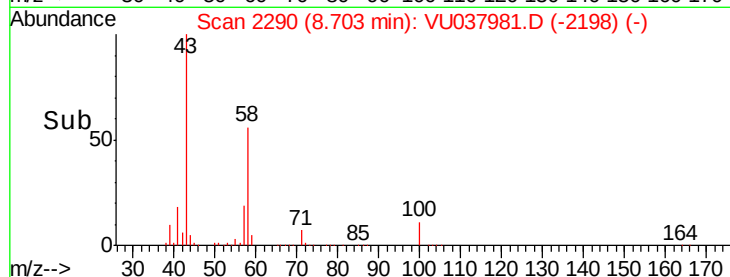
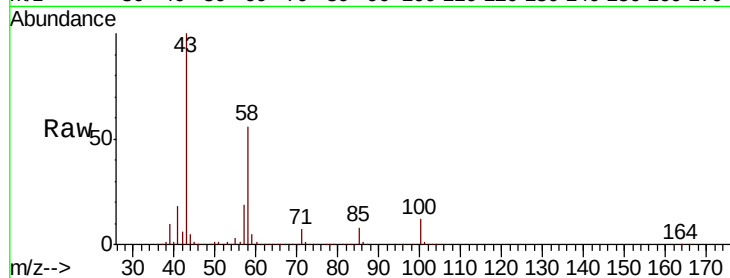




#48
2-Hexanone
Concen: 94.450 ug/L
RT: 8.70 min Scan# 2290
Delta R.T. -0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

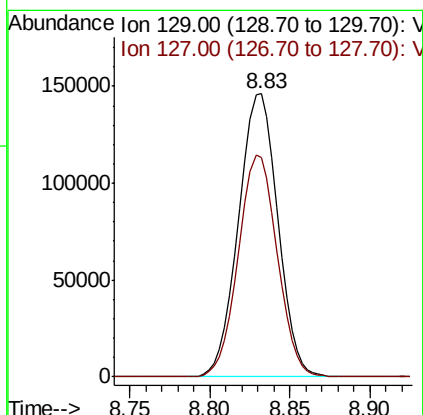
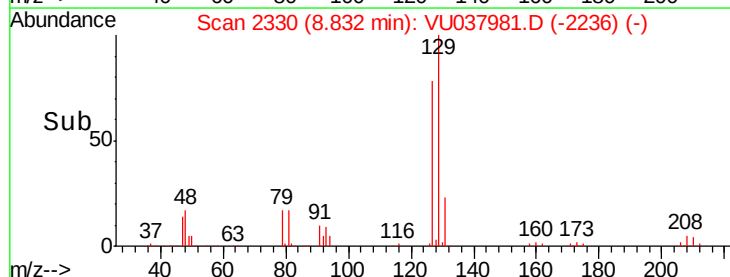
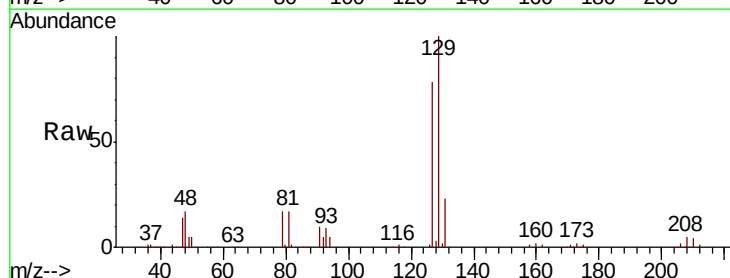
Instrument :
MSVOA_U
ClientSampleId :

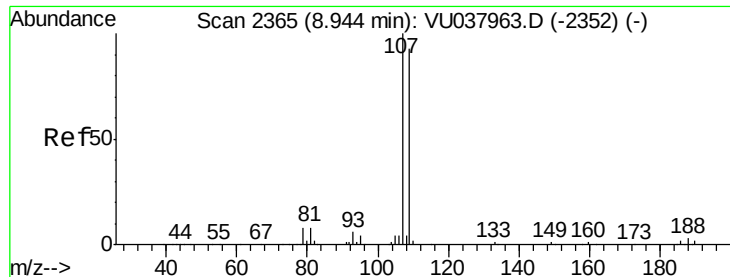
Tot Ion: 43 Resp: 742193
Ion Ratio Lower Upper
43 100
58 56.7 46.4 69.6
57 19.4 16.4 24.6
100 11.8 9.5 14.3



#49
Dibromochloromethane
Concen: 47.746 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037981.D
Acq: 01 May 2020 03:51

Tgt Ion: 129 Resp: 245435
Ion Ratio Lower Upper
129 100
127 77.6 54.7 101.5

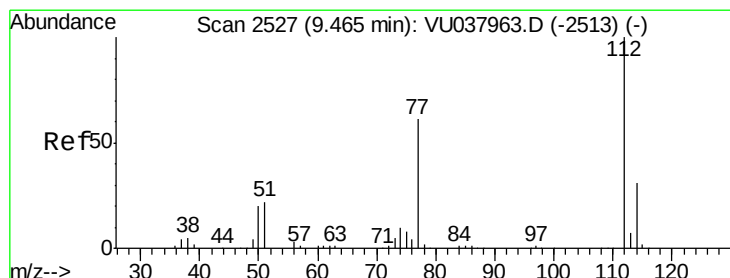
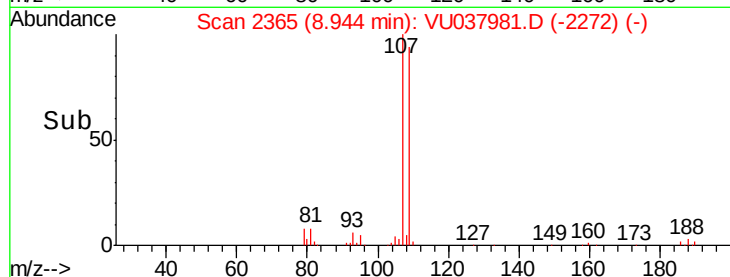
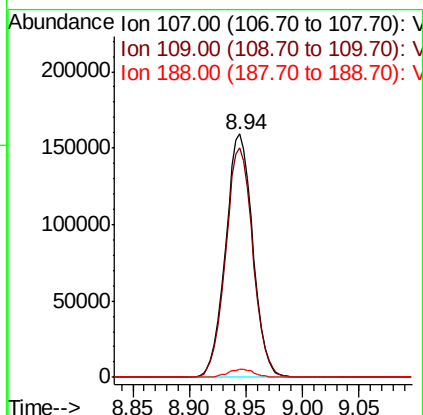
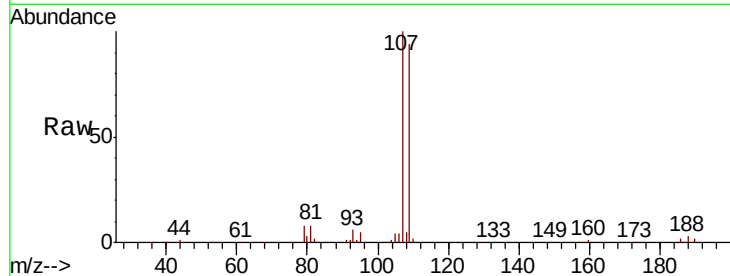




#50
 1,2-Dibromoethane
 Concen: 46.577 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

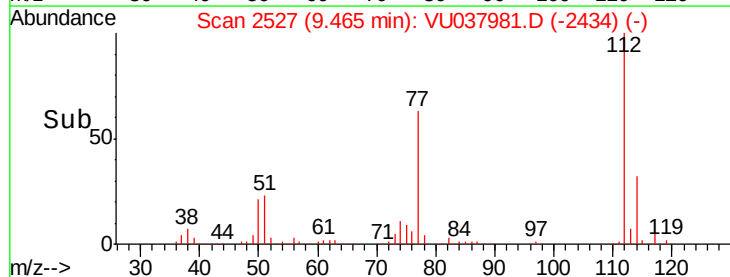
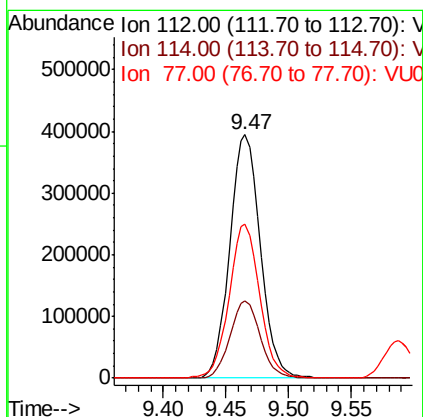
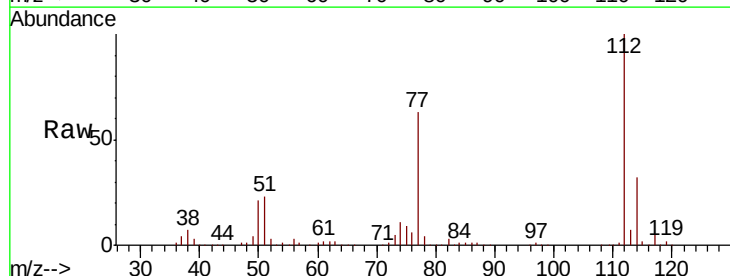
Instrument :
 MSVOA_U
 ClientSampleId :

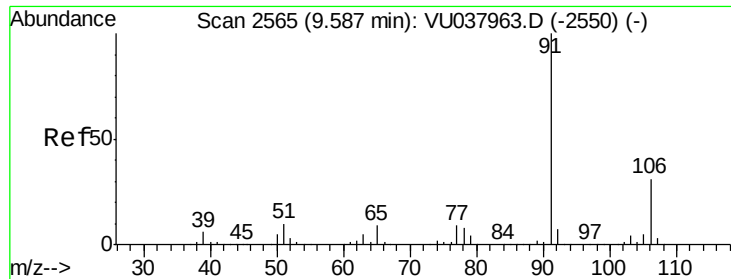
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.3	64.1	119.1
188	3.1	2.2	3.2



#51
 Chlorobenzene
 Concen: 46.429 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.8	21.6	40.2
77	63.1	49.3	73.9





#52

Ethylbenzene

Concen: 46.384 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

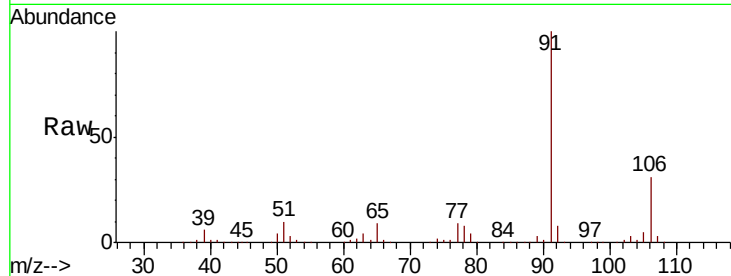
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 1189097

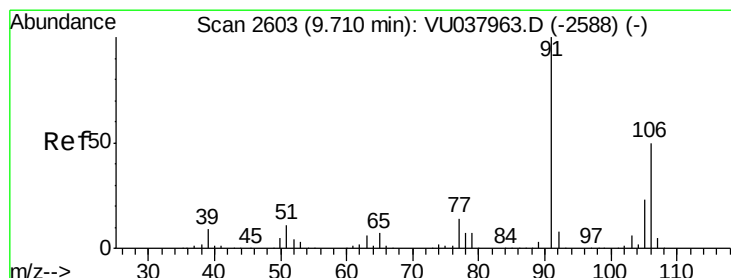
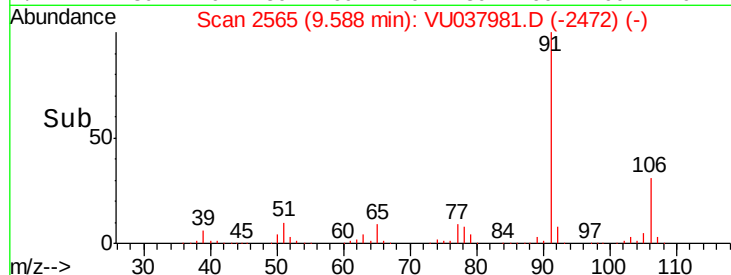
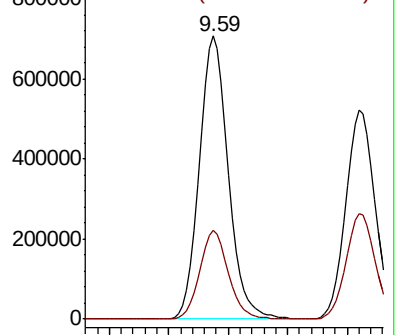
Ion Ratio Lower Upper

91 100

106 31.2 21.6 40.2



Abundance Ion 91.00 (90.70 to 91.70): VU037963.D (-2550) (-)



#53

m,p-Xylene

Concen: 46.902 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VU037981.D

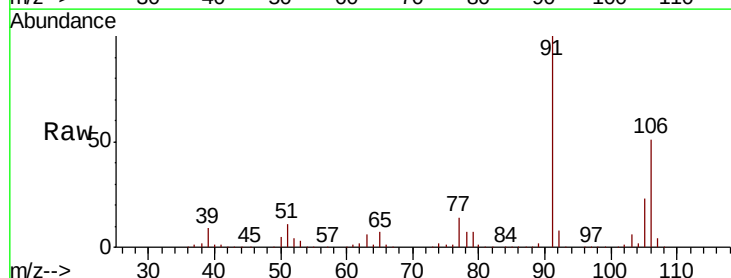
Acq: 01 May 2020 03:51

Tgt Ion: 106 Resp: 456528

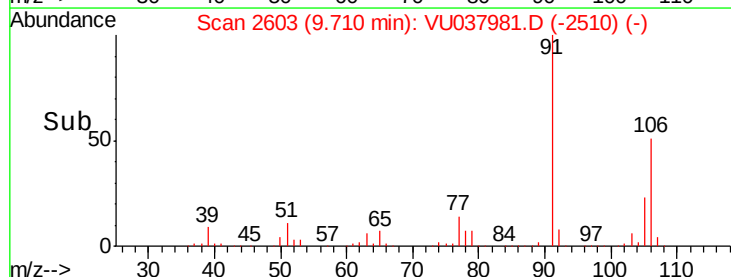
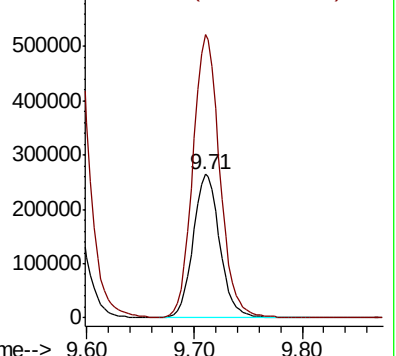
Ion Ratio Lower Upper

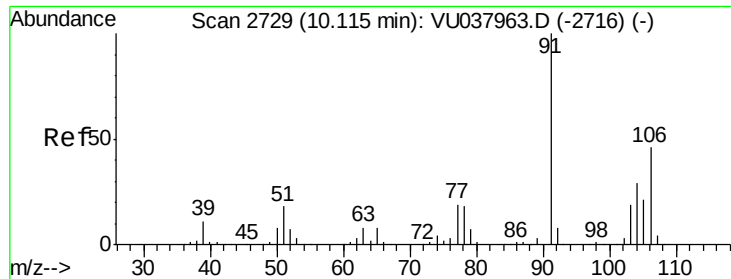
106 100

91 197.6 138.0 256.4



Abundance Ion 106.00 (105.70 to 106.70): VU037963.D (-2588) (-)





#54

o-xylene

Concen: 47.523 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

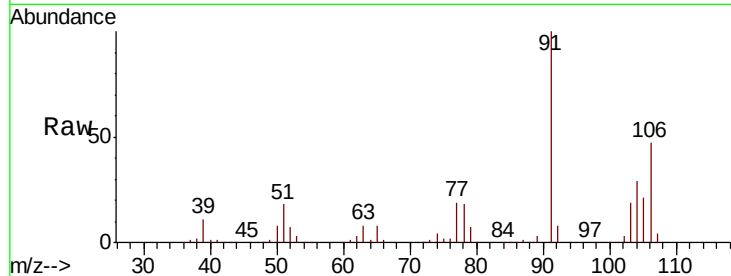
ClientSampleId :

Tot Ion:106 Resp: 455434

Ion Ratio Lower Upper

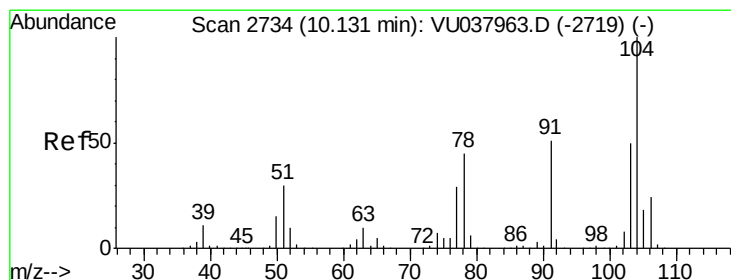
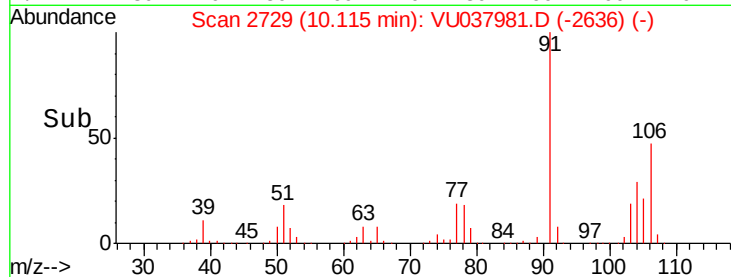
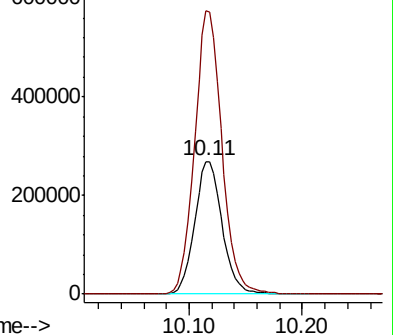
106 100

91 213.2 149.4 277.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 47.559 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037981.D

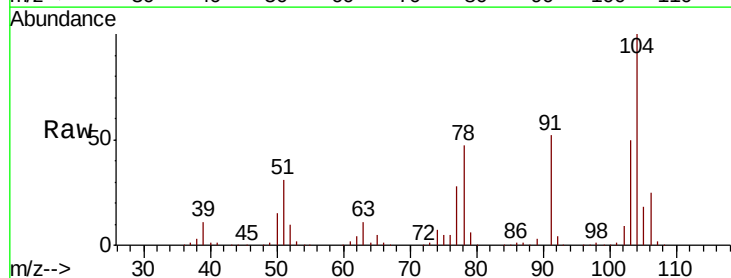
Acq: 01 May 2020 03:51

Tgt Ion:104 Resp: 774169

Ion Ratio Lower Upper

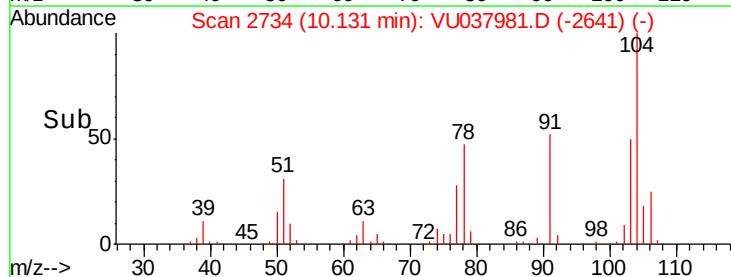
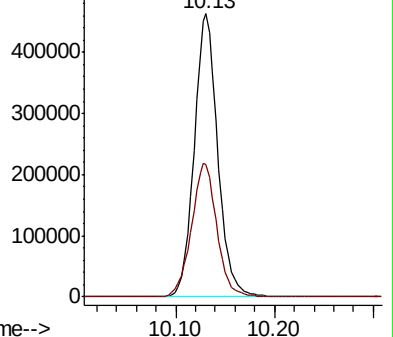
104 100

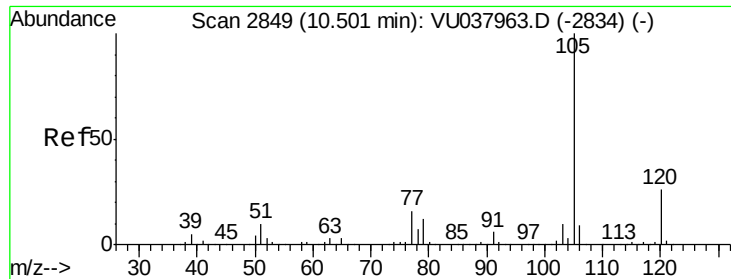
78 46.6 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 46.068 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampleId :

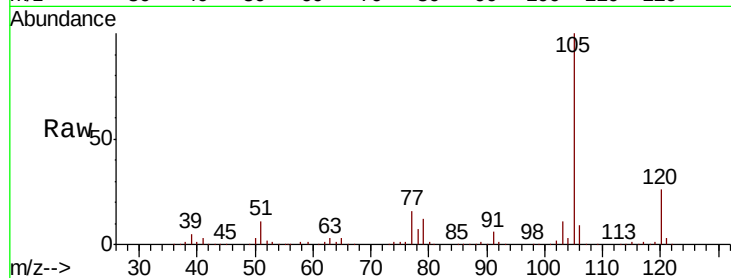
Tot Ion:105 Resp: 1136775

Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7

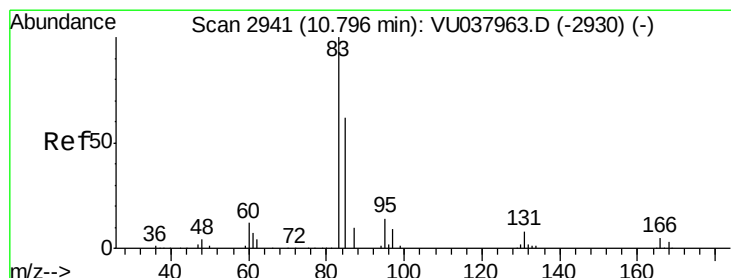
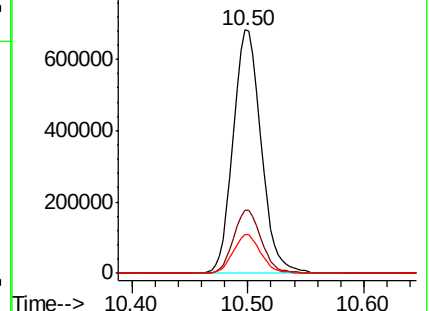
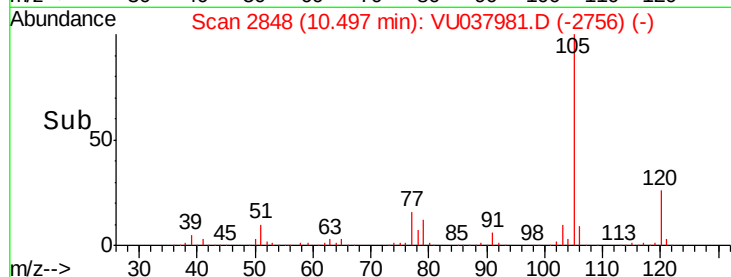
77 15.7 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 46.541 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

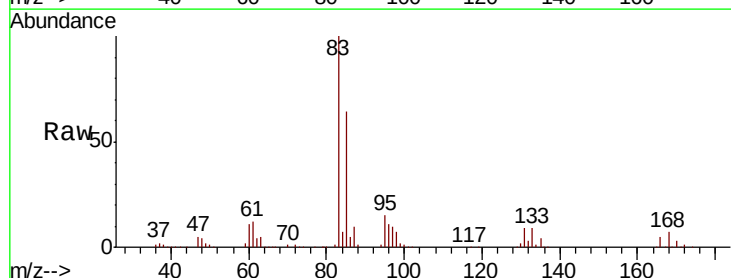
Tgt Ion: 83 Resp: 442863

Ion Ratio Lower Upper

83 100

85 64.4 44.9 83.3

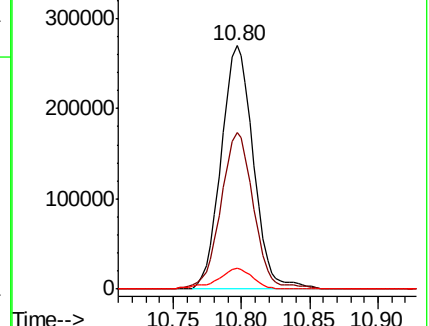
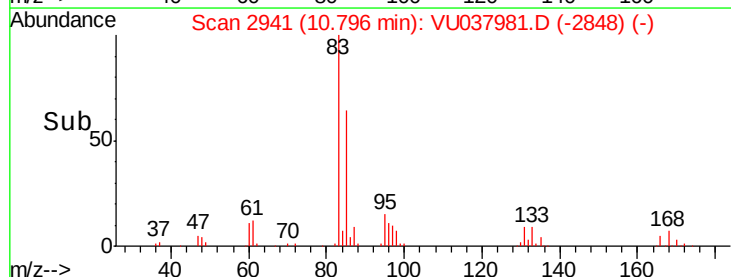
131 8.5 6.8 10.2

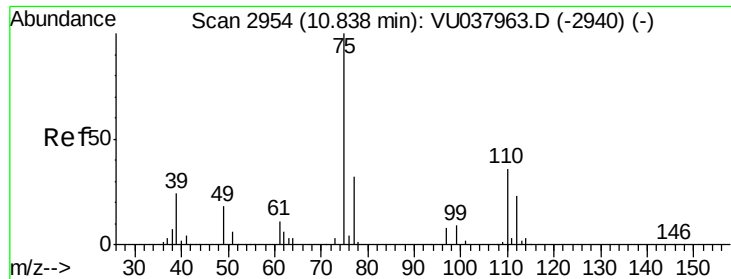


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 46.752 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

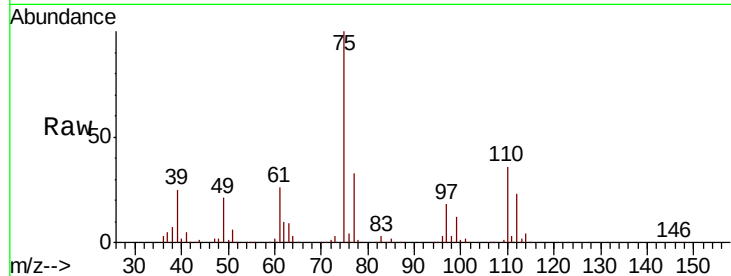
ClientSampled :

Tot Ion: 75 Resp: 381497

Ion Ratio Lower Upper

75 100

77 32.3 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037963.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU037963.D (-2940) (-)

10.84

250000

200000

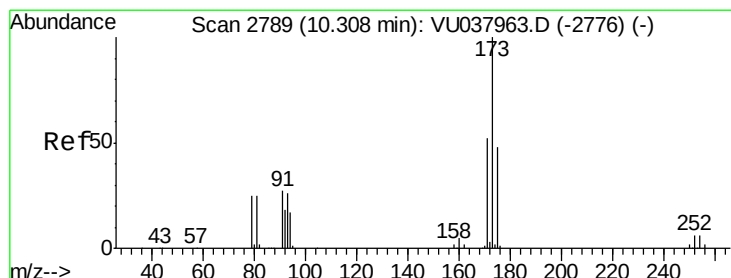
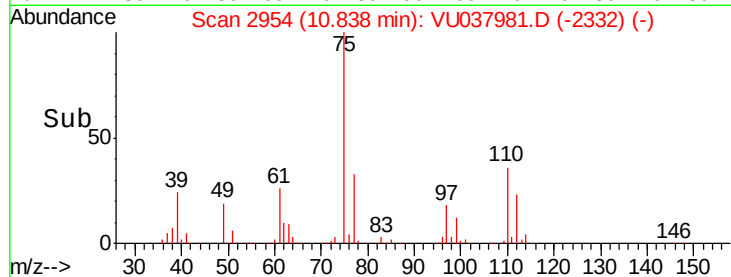
150000

100000

50000

0

Time--> 10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 45.583 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

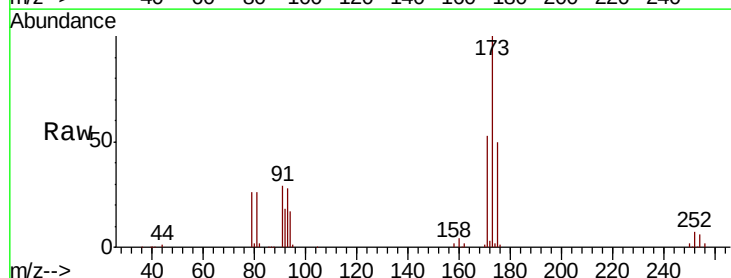
Tgt Ion: 173 Resp: 162728

Ion Ratio Lower Upper

173 100

175 49.5 39.0 58.4

254 6.1 4.7 7.1



Abundance Ion 173.00 (172.70 to 173.70): VU037963.D (-2776) (-)

Ion 175.00 (174.70 to 175.70): VU037963.D (-2776) (-)

Ion 254.00 (253.70 to 254.70): VU037963.D (-2776) (-)

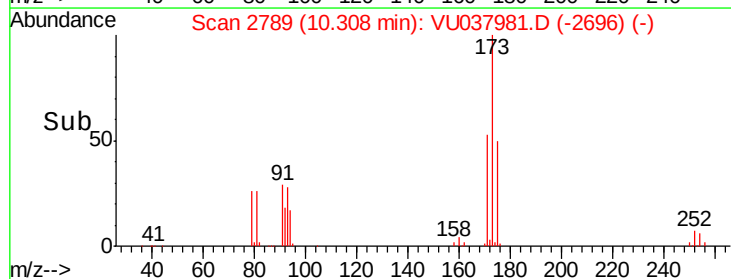
10.31

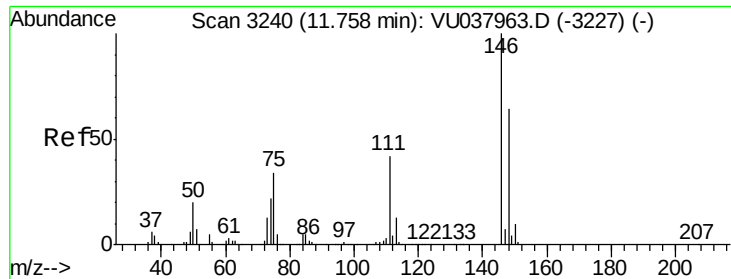
100000

50000

0

Time--> 10.25 10.30 10.35 10.40

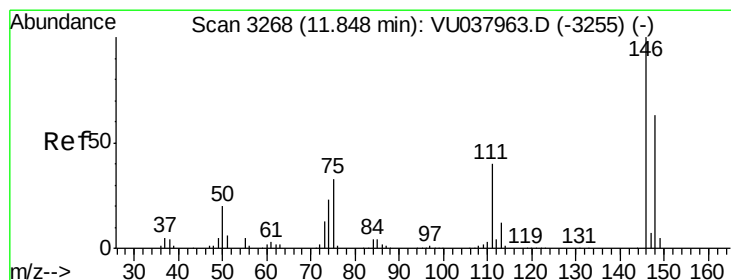
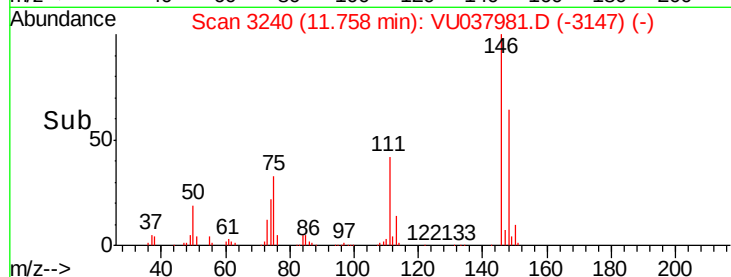
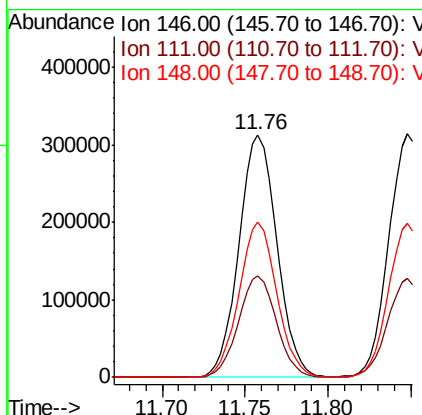
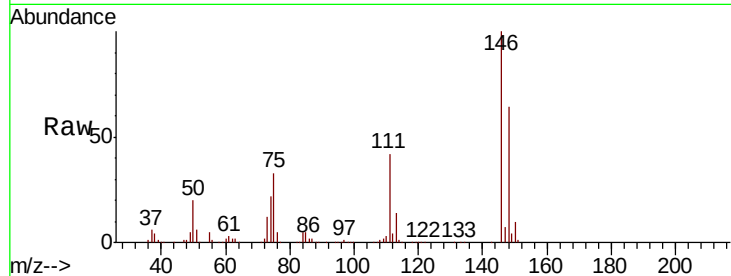




#62
 1,3-Dichlorobenzene
 Concen: 46.748 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

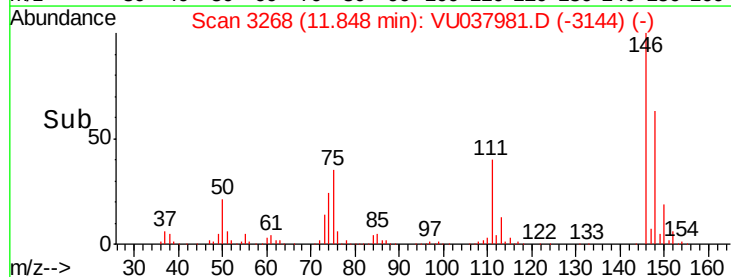
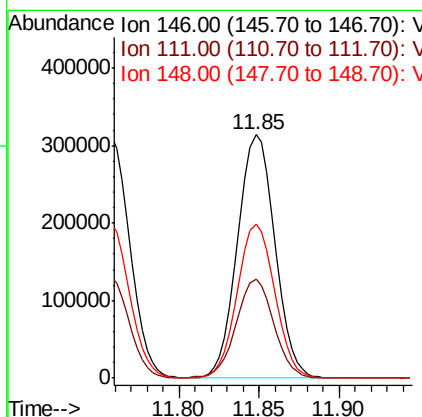
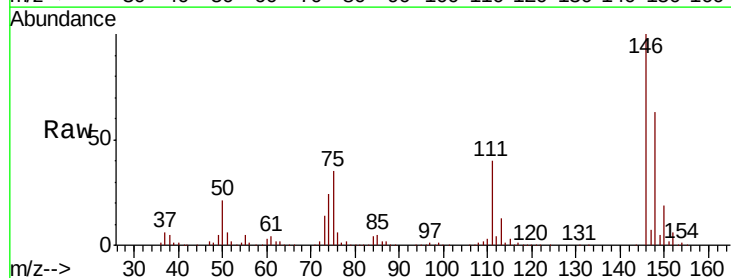
Instrument :
 MSVOA_U
 ClientSampled :

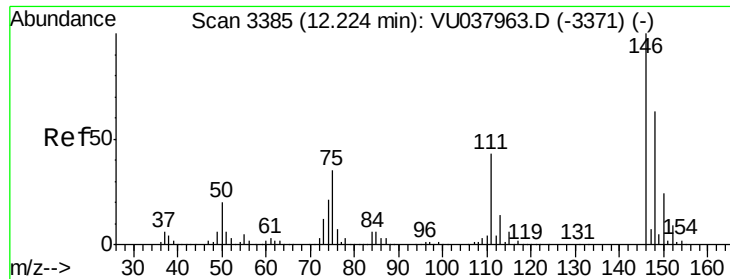
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	29.2	54.2
148	63.9	44.9	83.5



#63
 1,4-Dichlorobenzene
 Concen: 46.311 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	28.2	52.4
148	63.1	44.5	82.7





#65

1,2-Dichlorobenzene

Concen: 46.360 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampleId :

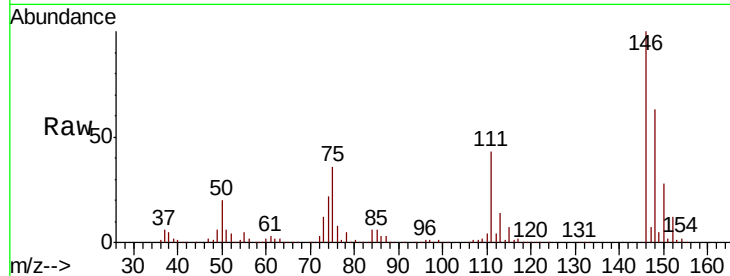
Tot Ion:146 Resp: 499923

Ion Ratio Lower Upper

146 100

111 43.2 34.6 51.8

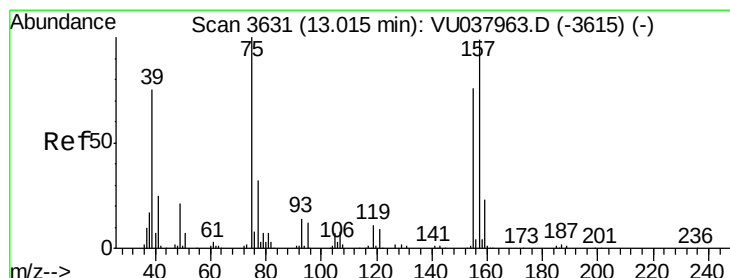
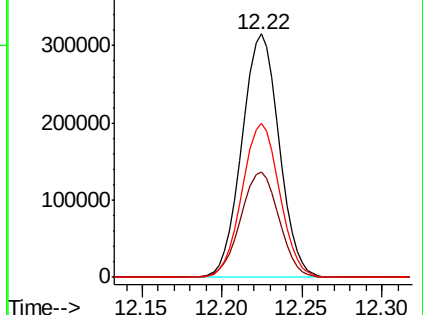
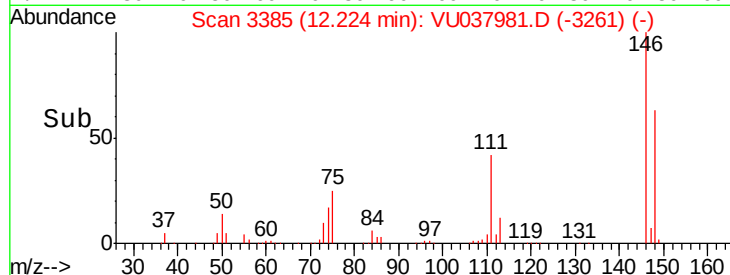
148 63.3 50.1 75.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 45.321 ug/L

RT: 13.02 min Scan# 3631

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

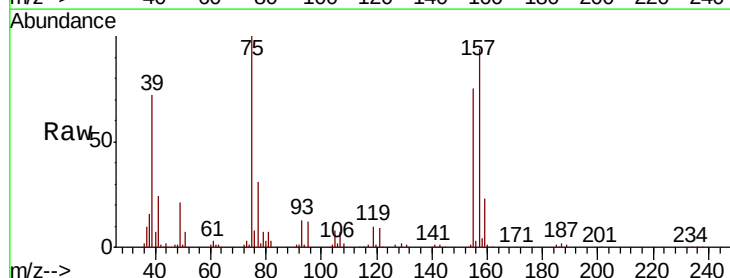
Tgt Ion: 75 Resp: 102009

Ion Ratio Lower Upper

75 100

155 75.4 61.3 91.9

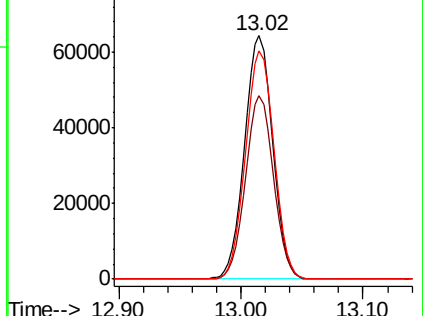
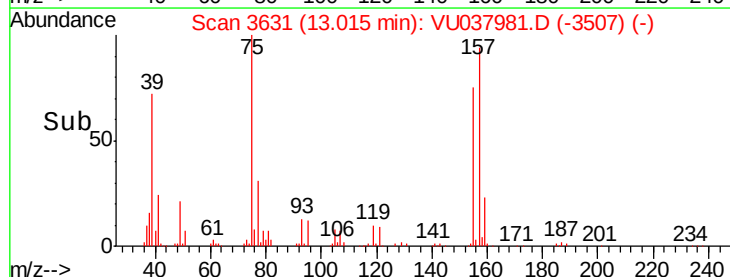
157 93.8 76.9 115.3

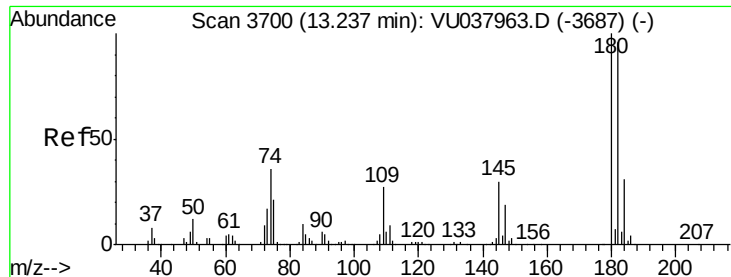


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

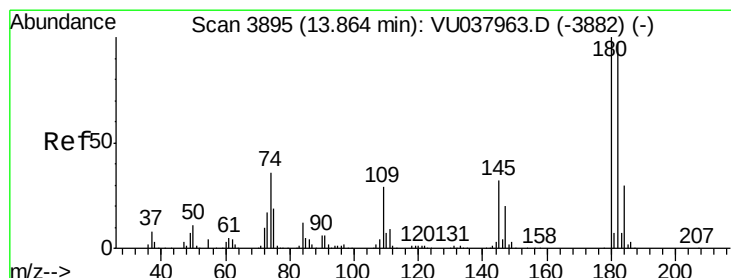
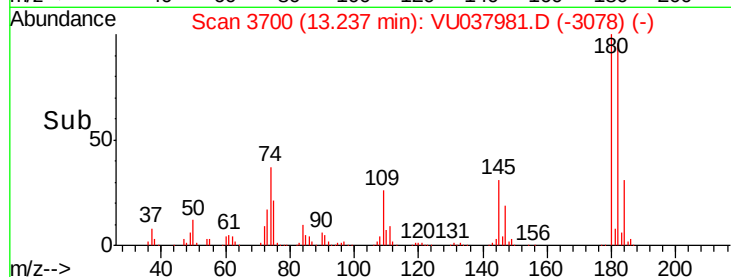
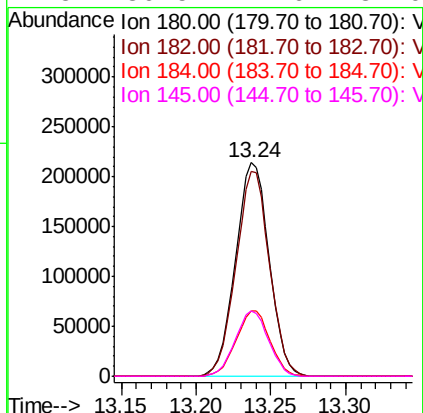
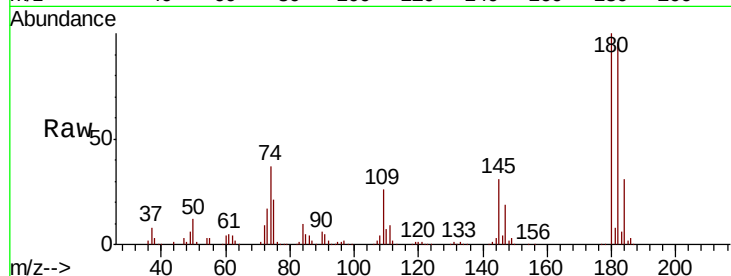




#67
 1,3,5-Trichlorobenzene
 Concen: 45.916 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

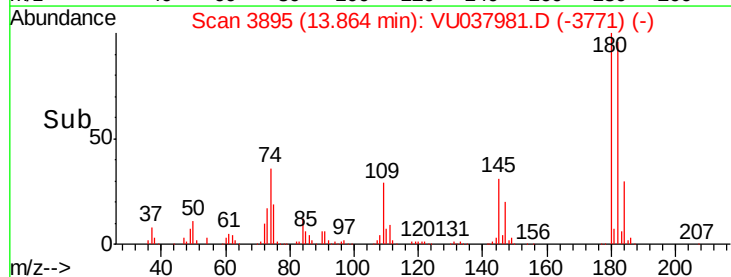
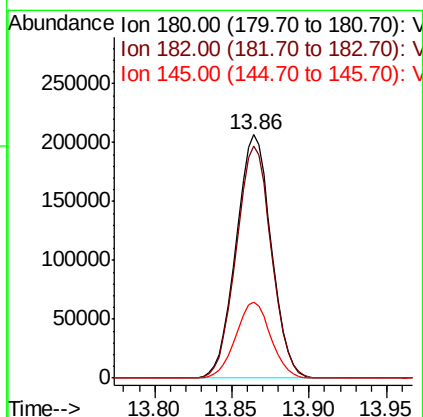
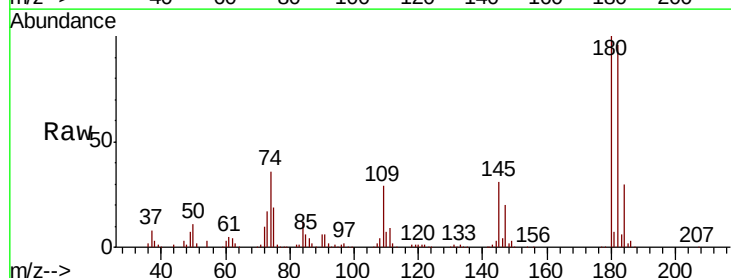
Instrument :
 MSVOA_U
 ClientSampleId :

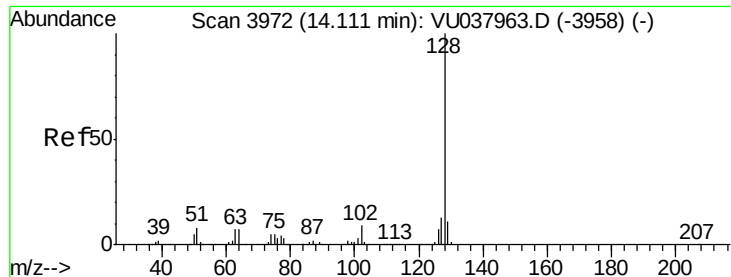
Tot Ion:180	Resp:	334601
Ion Ratio	Lower	Upper
180	100	
182	95.6	75.7 113.5
184	30.7	24.2 36.2
145	30.5	24.6 37.0



#68
 1,2,4-trichlorobenzene
 Concen: 46.650 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. 0.00 min
 Lab File: VU037981.D
 Acq: 01 May 2020 03:51

Tgt Ion:180	Resp:	325852
Ion Ratio	Lower	Upper
180	100	
182	95.5	75.4 113.0
145	31.1	25.3 37.9





#69

Naphthalene

Concen: 48.660 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

Instrument :

MSVOA_U

ClientSampleId :

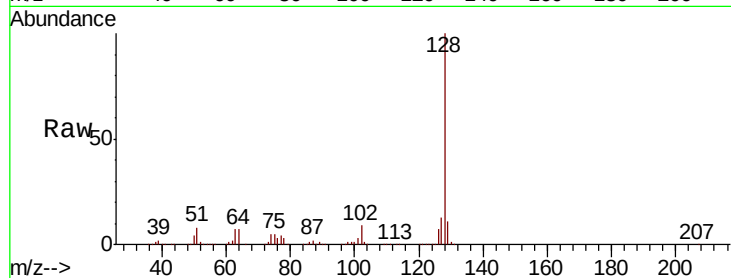
Tot Ion:128 Resp: 1304006

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

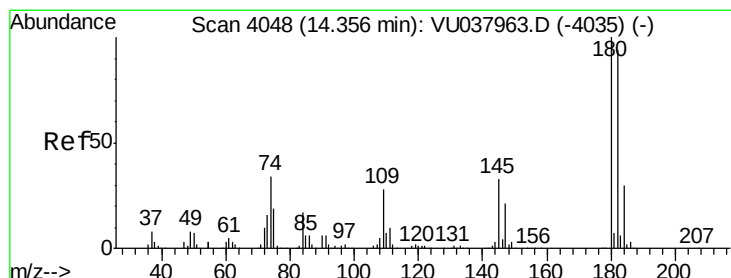
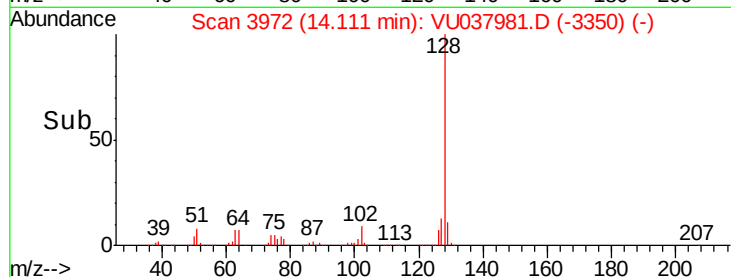
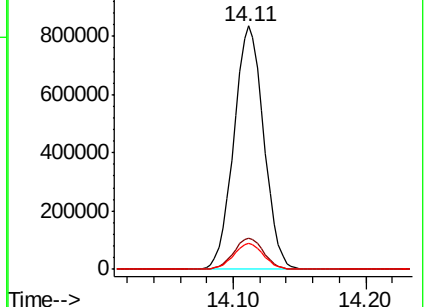
129 10.6 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.351 ug/L

RT: 14.36 min Scan# 4048

Delta R.T. 0.00 min

Lab File: VU037981.D

Acq: 01 May 2020 03:51

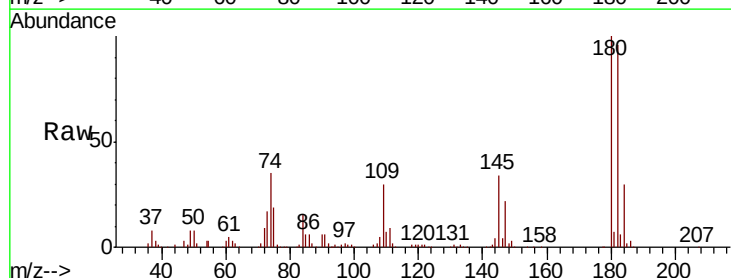
Tgt Ion:180 Resp: 332388

Ion Ratio Lower Upper

180 100

182 95.8 75.9 113.9

145 33.5 27.0 40.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

