

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052920\
 Data File : VU038376.D
 Acq On : 29 May 2020 13:30
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 29 16:34:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	613059	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	596812	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	299112	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	168655	43.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.64%
7) Chloroethane-d5	1.93	69	136269	45.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	91.66%
11) 1,1-Dichloroethene-d2	2.59	63	358284	45.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.10%
21) 2-Butanone-d5	4.67	46	397264	108.64	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.64%
24) Chloroform-d	5.10	84	377428	49.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.88%
26) 1,2-Dichloroethane-d4	5.74	65	248526	47.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.98%
32) Benzene-d6	5.76	84	741179	47.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.60%
36) 1,2-Dichloropropane-d6	6.72	67	232556	48.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.76%
41) Toluene-d8	7.92	98	659739	48.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.26%
43) trans-1,3-Dichloropropene-	8.20	79	119003	49.73	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.46%
47) 2-Hexanone-d5	8.66	63	274301	108.38	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	108.38%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	354617	49.85	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.70%
64) 1,2-Dichlorobenzene-d4	12.21	152	267633	48.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.54%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	216992	47.023	ug/L 99
3) Chloromethane	1.53	50	213042	50.092	ug/L 99
5) Vinyl chloride	1.62	62	229941	48.940	ug/L 99
6) Bromomethane	1.87	94	112951	58.763	ug/L 97
8) Chloroethane	1.95	64	134970	47.013	ug/L 100
9) Trichlorofluoromethane	2.16	101	308354	48.970	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	181481	48.204	ug/L 100
12) 1,1-Dichloroethene	2.60	96	182632	49.135	ug/L 94
13) Acetone	2.66	43	265951	87.535	ug/L 99
14) Carbon disulfide	2.82	76	578713	47.739	ug/L 100
15) Methyl Acetate	2.98	43	283469	52.049	ug/L 98
16) Methylene chloride	3.08	84	217800	50.995	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	199567	49.985	ug/L 98
18) Methyl tert-butyl Ether	3.40	73	665867	52.009	ug/L 99
19) 1,1-Dichloroethane	3.91	63	383302	50.695	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	222018	50.762	ug/L 97
22) 2-Butanone	4.75	43	427780	100.425	ug/L 100

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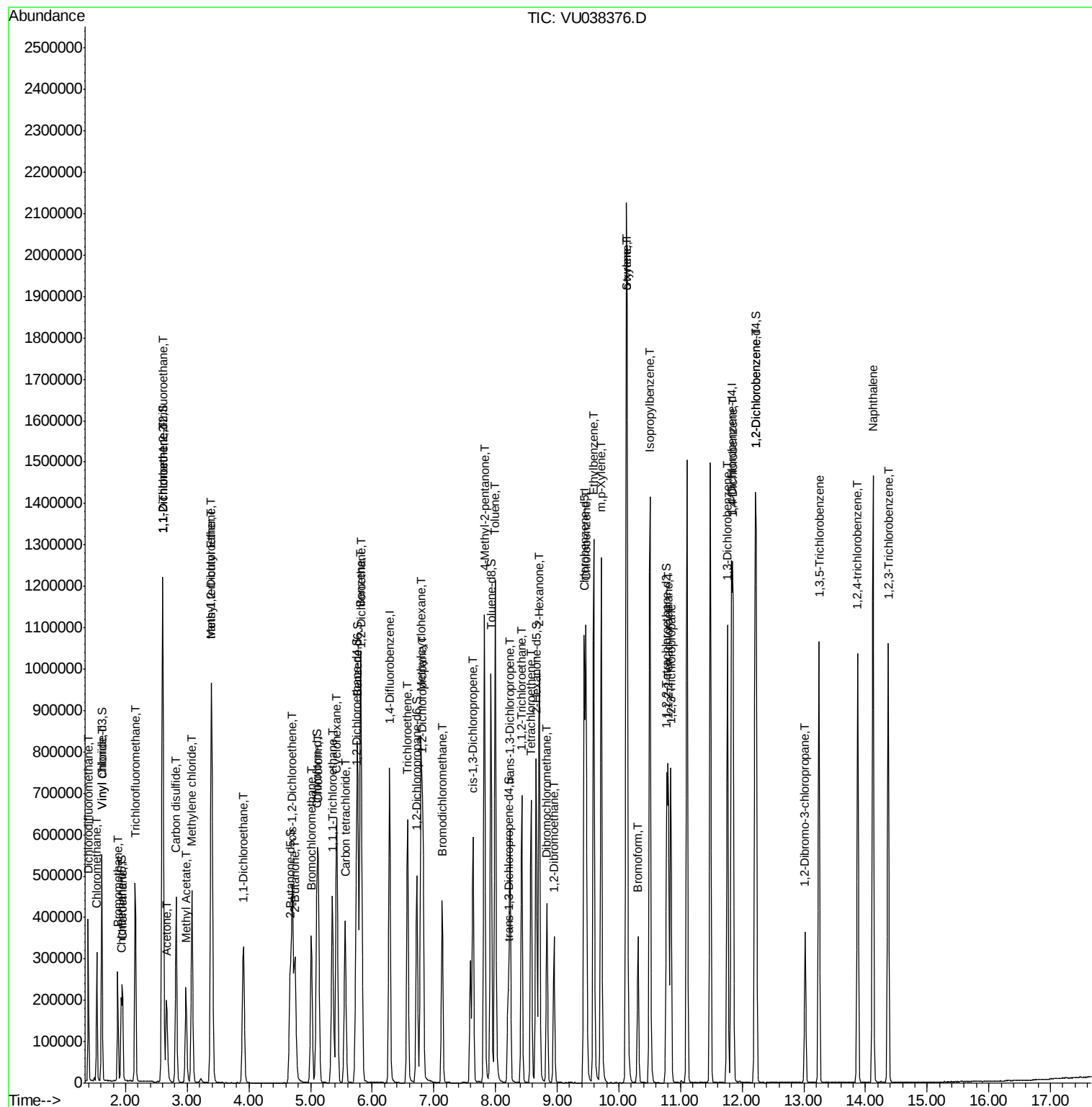
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	110819	51.180	ug/L	99
25) Chloroform	5.13	83	382382	49.178	ug/L	98
27) 1,2-Dichloroethane	5.83	62	315125	50.054	ug/L	99
29) Cyclohexane	5.42	56	329101	48.094	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	328232	50.577	ug/L	99
31) Carbon tetrachloride	5.56	117	268476	49.637	ug/L	100
33) Benzene	5.81	78	858994	51.246	ug/L	100
34) Trichloroethene	6.57	95	215031	50.140	ug/L	97
35) Methylcyclohexane	6.79	83	326744	48.526	ug/L	99
37) 1,2-Dichloropropane	6.82	63	221715	51.002	ug/L	100
38) Bromodichloromethane	7.13	83	290321	52.114	ug/L	97
39) cis-1,3-Dichloropropene	7.64	75	347061	50.171	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	733543	106.103	ug/L	99
42) Toluene	8.00	91	901096	51.205	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	338845	52.329	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	215661	52.278	ug/L	98
46) Tetrachloroethene	8.58	164	152259	48.563	ug/L	97
48) 2-Hexanone	8.71	43	612105	104.862	ug/L	99
49) Dibromochloromethane	8.83	129	218468	52.304	ug/L	99
50) 1,2-Dibromoethane	8.95	107	228360	51.500	ug/L	98
51) Chlorobenzene	9.47	112	562099	49.700	ug/L	99
52) Ethylbenzene	9.59	91	989444	50.181	ug/L	99
53) m,p-Xylene	9.71	106	381901	50.647	ug/L	96
54) o-xylene	10.12	106	374365	51.065	ug/L	98
55) Styrene	10.13	104	649101	51.516	ug/L	98
56) Isopropylbenzene	10.50	105	955509	49.875	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	362265	51.315	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	314027	51.658	ug/L	99
61) Bromoform	10.31	173	158088	52.609	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	440177	50.339	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	447011	50.293	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	440476	50.797	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	95078	53.559	ug/L	98
67) 1,3,5-Trichlorobenzene	13.25	180	318849	51.236	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	301094	50.446	ug/L	99
69) Naphthalene	14.12	128	1148394	53.737	ug/L	100
70) 1,2,3-Trichlorobenzene	14.37	180	308482	51.737	ug/L	99

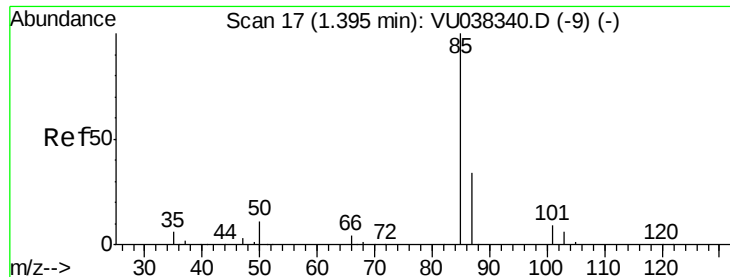
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.023 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

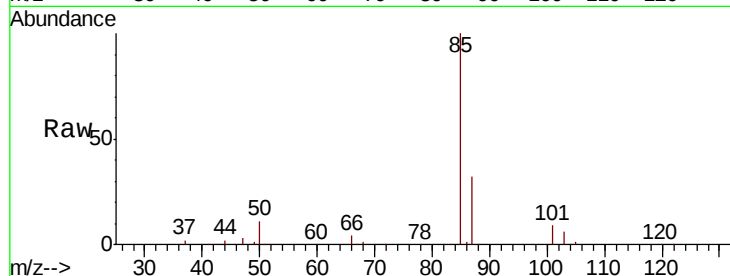
ClientSampleId :

Tot Ion: 85 Resp: 216992

Ion Ratio Lower Upper

85 100

87 32.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

1.39

250000

200000

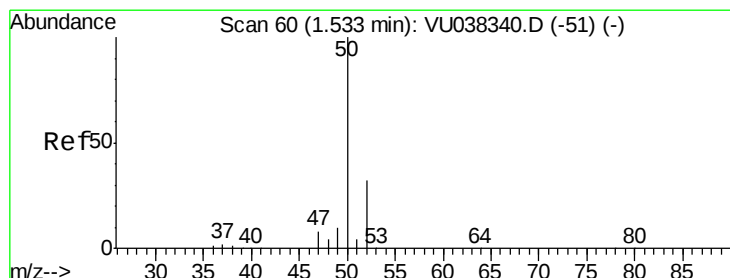
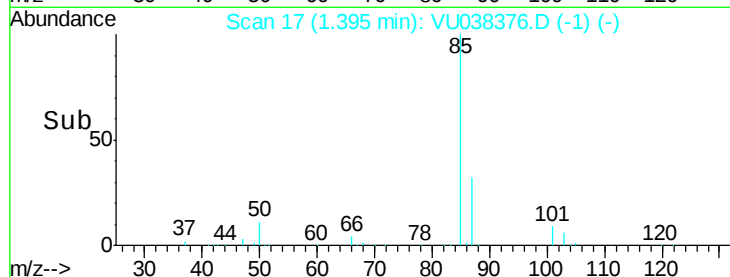
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.092 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038376.D

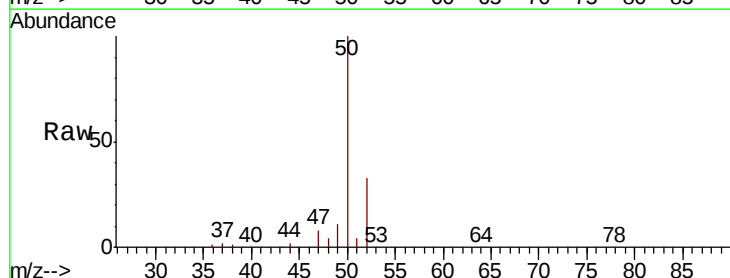
Acq: 29 May 2020 13:30

Tgt Ion: 50 Resp: 213042

Ion Ratio Lower Upper

50 100

52 32.6 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU0

Ion 52.00 (51.70 to 52.70): VU0

1.53

200000

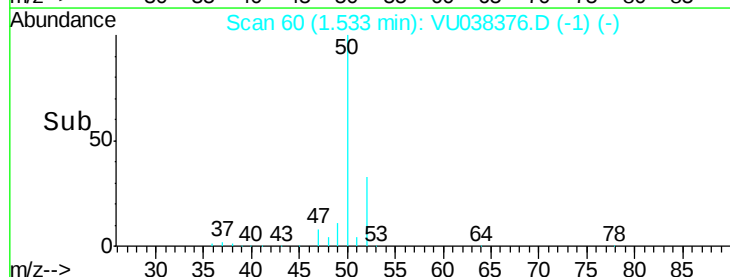
150000

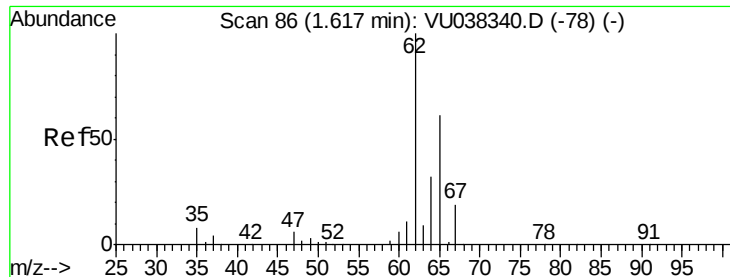
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 48.940 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

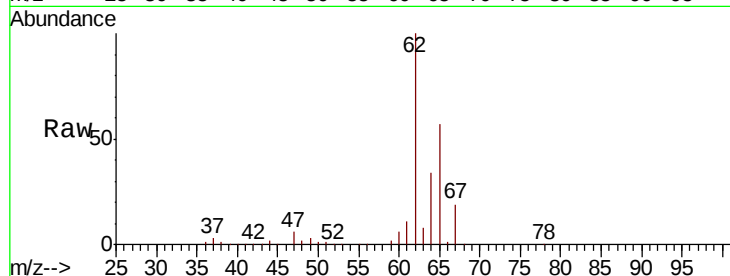
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 62 Resp: 229941

Ion Ratio Lower Upper

62 100

64 33.5 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU038376.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU038376.D (-1) (-)

1.62

200000

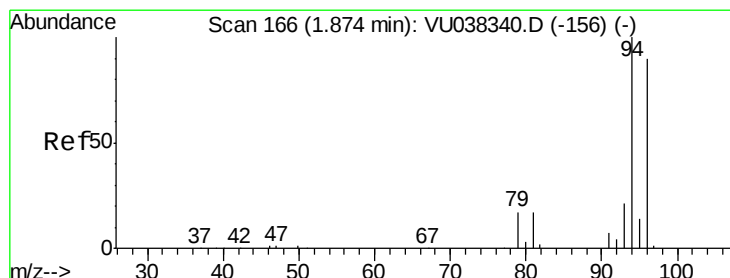
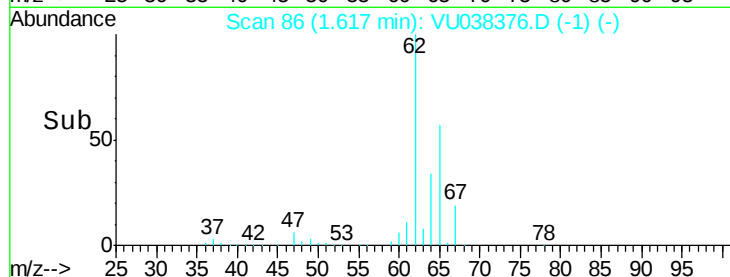
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 58.763 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU038376.D

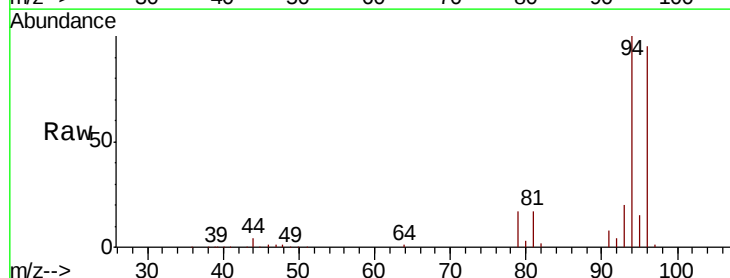
Acq: 29 May 2020 13:30

Tgt Ion: 94 Resp: 112951

Ion Ratio Lower Upper

94 100

96 94.6 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU038376.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU038376.D (-73) (-)

1.87

100000

80000

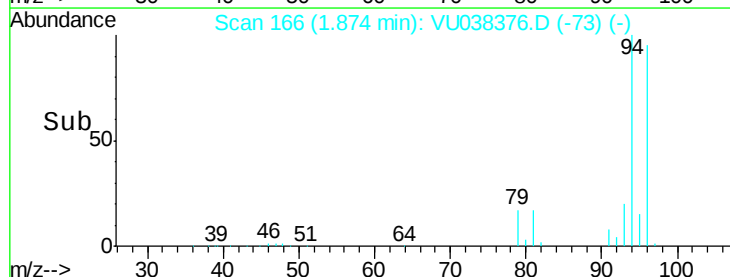
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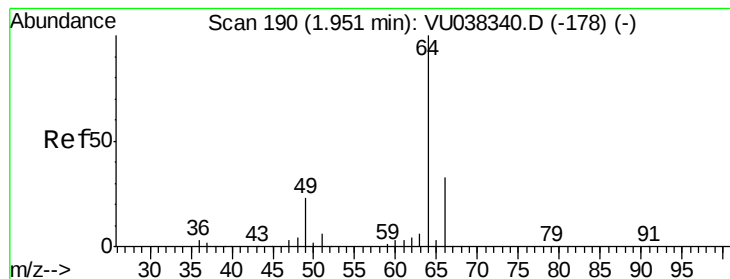
40000

20000

0

Time-->





#8

Chloroethane

Concen: 47.013 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

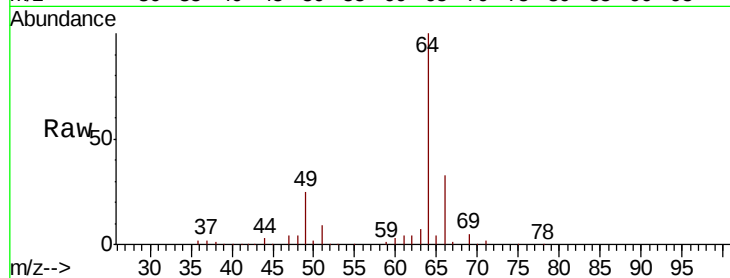
ClientSampleId :

Tot Ion: 64 Resp: 134970

Ion Ratio Lower Upper

64 100

66 32.8 23.0 42.8



Abundance Ion 64.00 (63.70 to 64.70): VU038340.D (-178) (-)

Ion 66.00 (65.70 to 66.70): VU038340.D (-178) (-)

1.95

120000

100000

80000

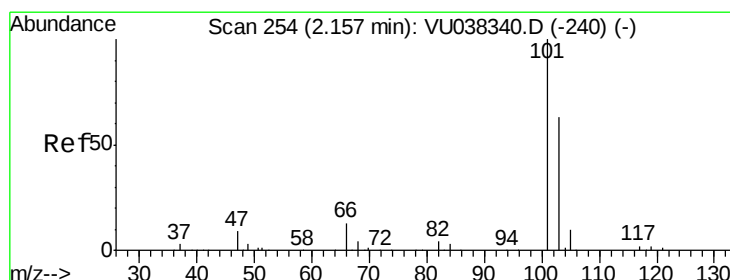
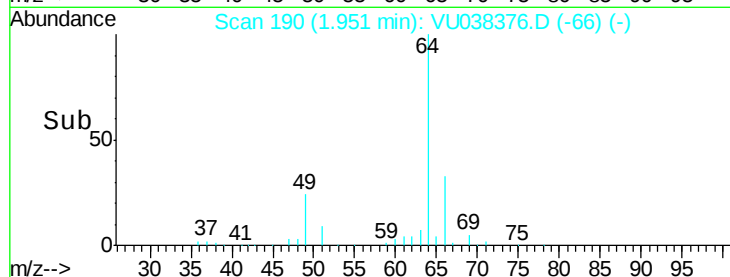
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 48.970 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038376.D

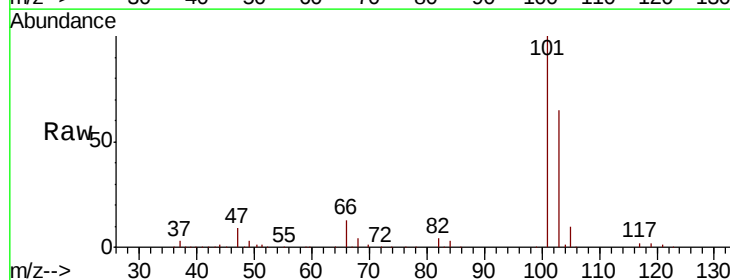
Acq: 29 May 2020 13:30

Tgt Ion:101 Resp: 308354

Ion Ratio Lower Upper

101 100

103 65.1 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): VU038340.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU038340.D (-240) (-)

2.16

250000

200000

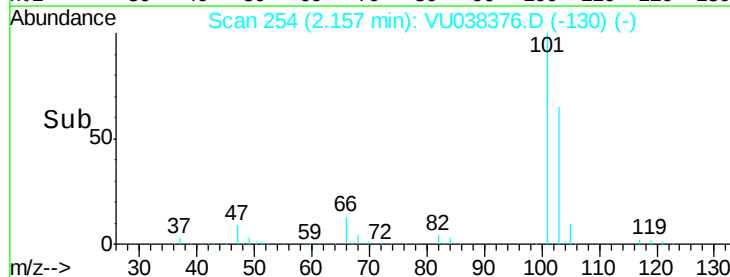
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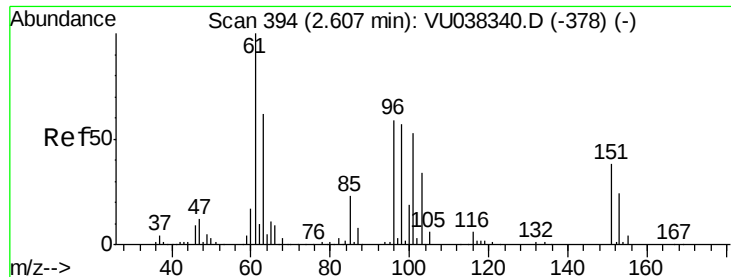
100000

50000

0

Time-->





#10

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

Concen: 48.204 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampled :

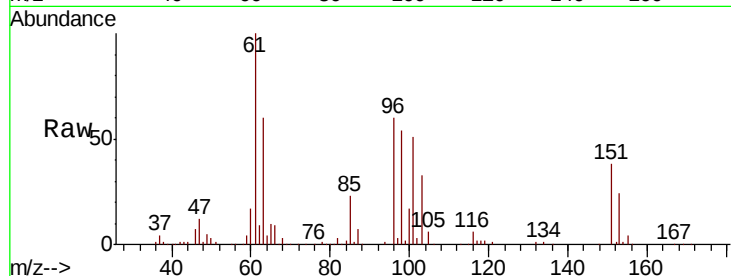
Tot Ion:101 Resp: 181481

Ion Ratio Lower Upper

101 100

85 44.7 35.5 53.3

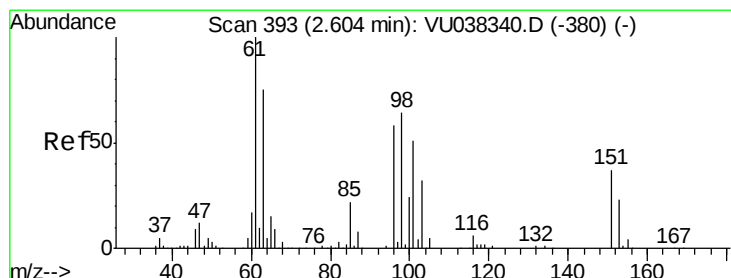
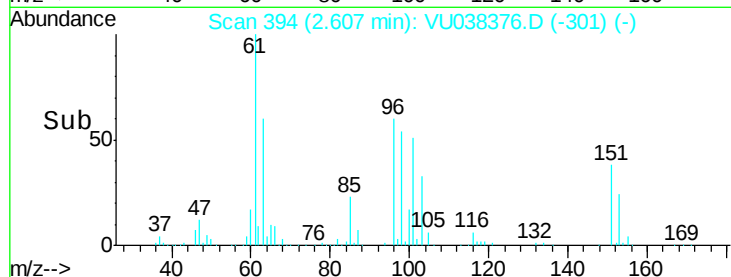
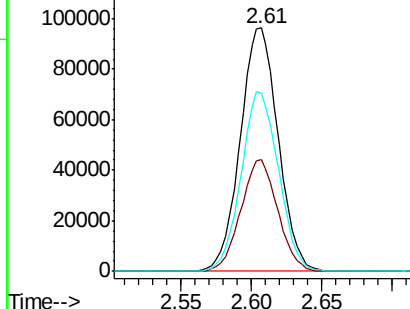
151 72.9 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): VU038376.D (-301) (-)

Ion 85.00 (84.70 to 85.70): VU038376.D (-301) (-)

Ion 151.00 (150.70 to 151.70): VU038376.D (-301) (-)



#12

1,1-Dichloroethene

Concen: 49.135 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

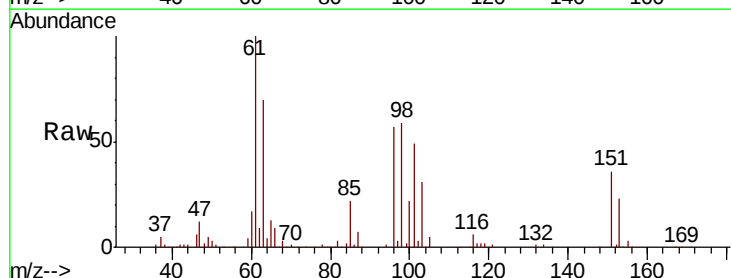
Tgt Ion: 96 Resp: 182632

Ion Ratio Lower Upper

96 100

61 174.5 123.5 229.3

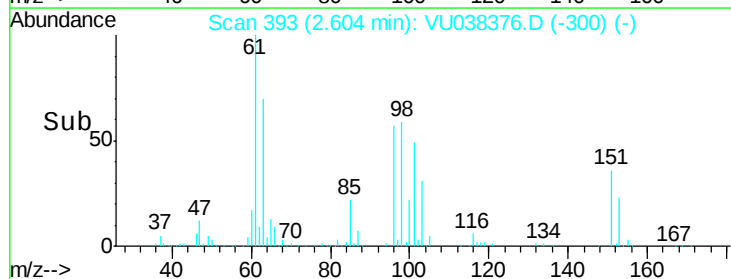
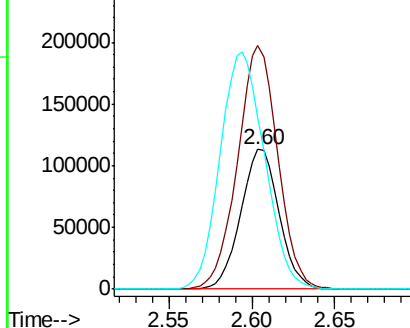
63 123.0 76.6 142.2

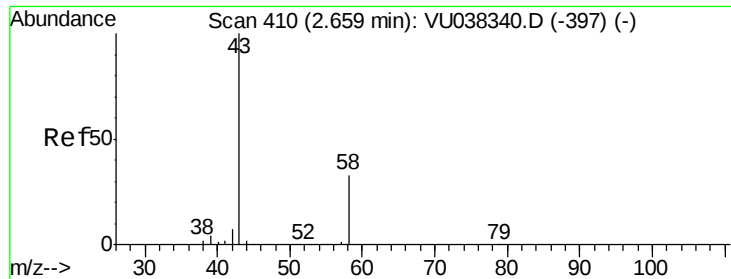


Abundance Ion 96.00 (95.70 to 96.70): VU038376.D (-300) (-)

Ion 61.00 (60.70 to 61.70): VU038376.D (-300) (-)

Ion 63.00 (62.70 to 63.70): VU038376.D (-300) (-)





#13

Acetone

Concen: 87.535 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.01 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

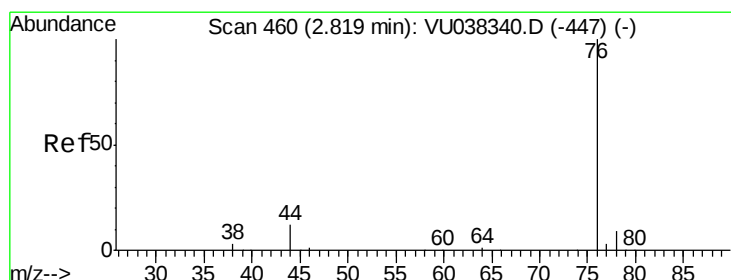
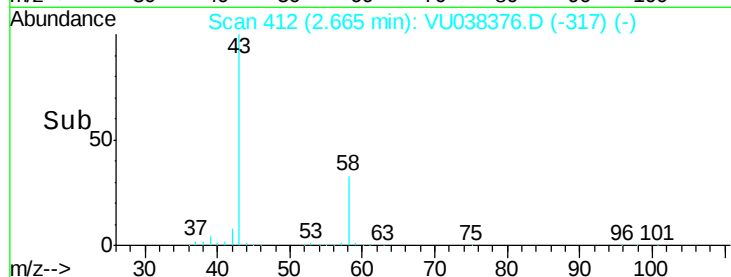
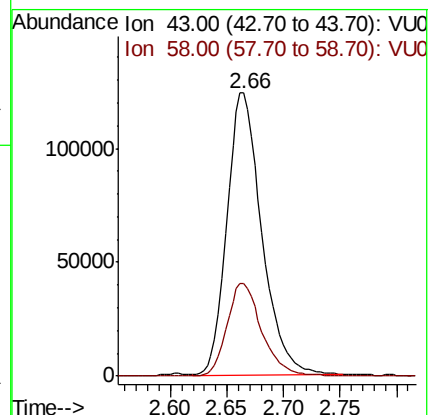
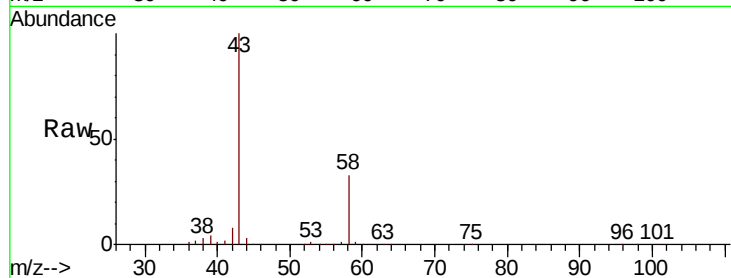
ClientSampled :

Tot Ion: 43 Resp: 265951

Ion Ratio Lower Upper

43 100

58 32.3 0.0 63.4



#14

Carbon disulfide

Concen: 47.739 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038376.D

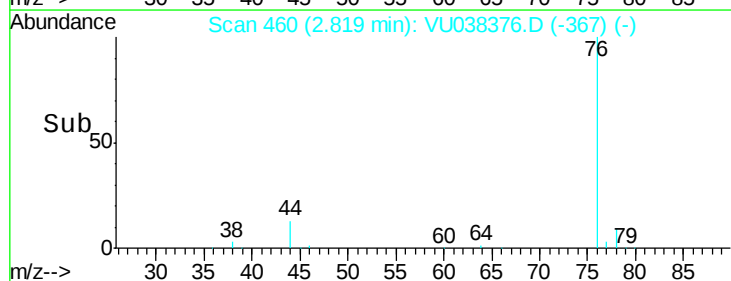
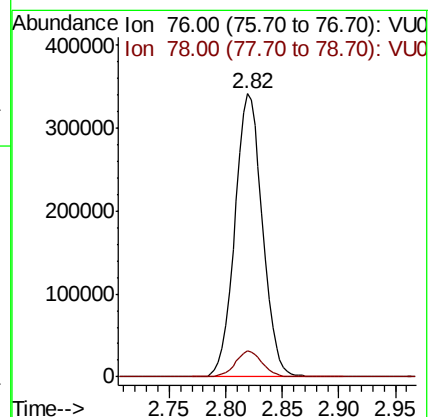
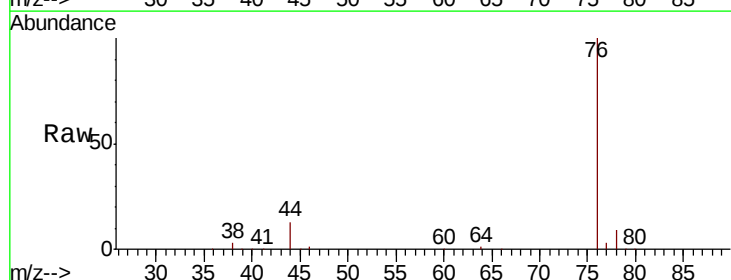
Acq: 29 May 2020 13:30

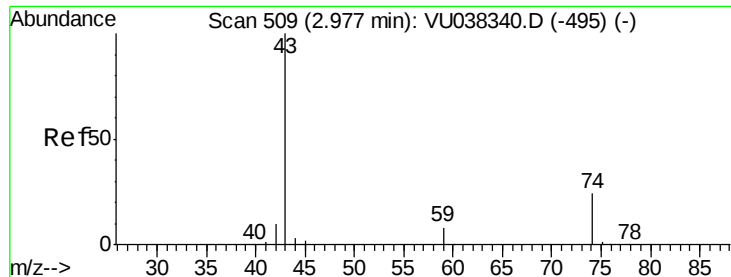
Tgt Ion: 76 Resp: 578713

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

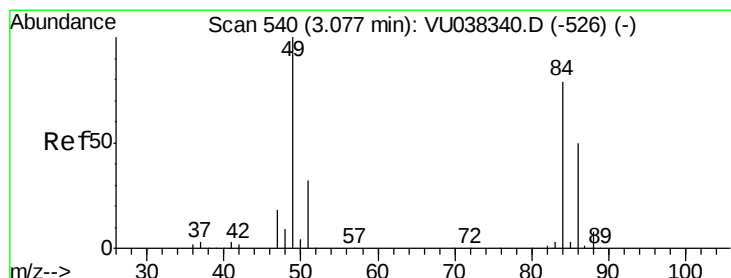
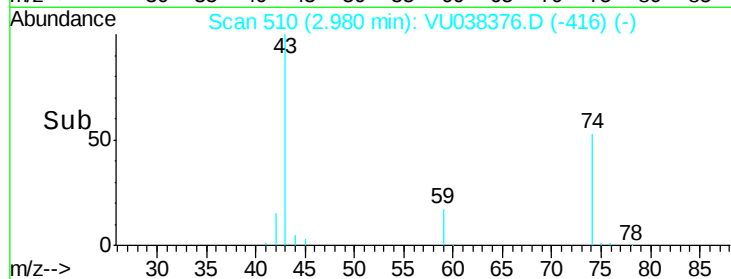
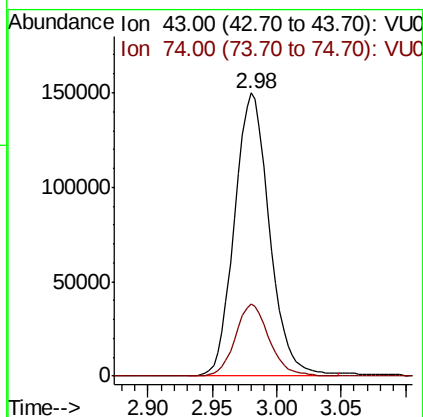
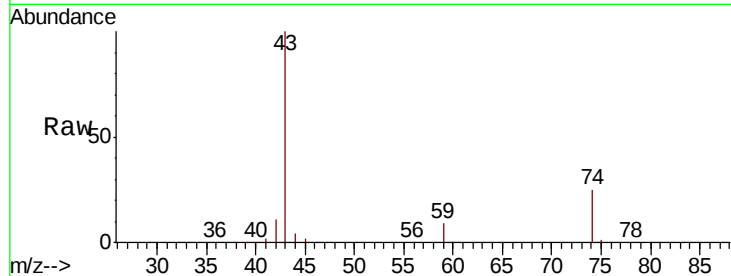




#15
Methvl Acetate
Concen: 52.049 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

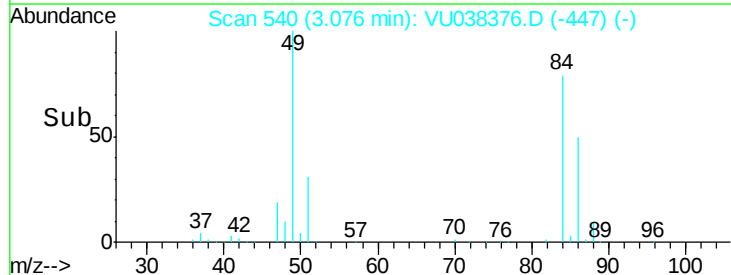
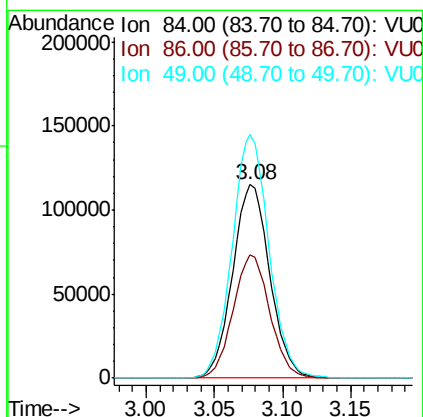
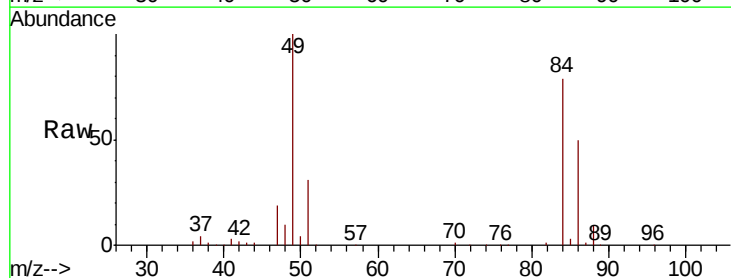
Instrument :
MSVOA_U
ClientSampleId :

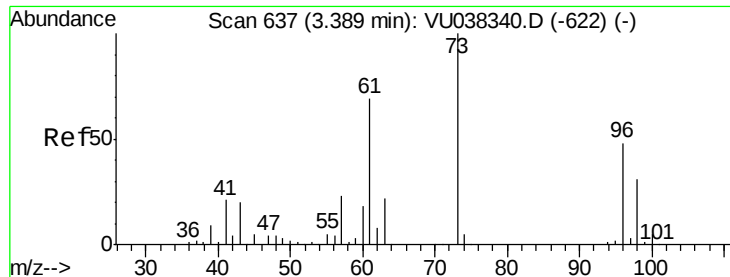
Tot Ion: 43 Resp: 283469
Ion Ratio Lower Upper
43 100
74 24.7 19.1 28.7



#16
Methylene chloride
Concen: 50.995 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

Tgt Ion: 84 Resp: 217800
Ion Ratio Lower Upper
84 100
86 63.5 46.1 85.7
49 125.8 90.0 167.2





#17

trans-1,2-Dichloroethene

Concen: 49.985 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

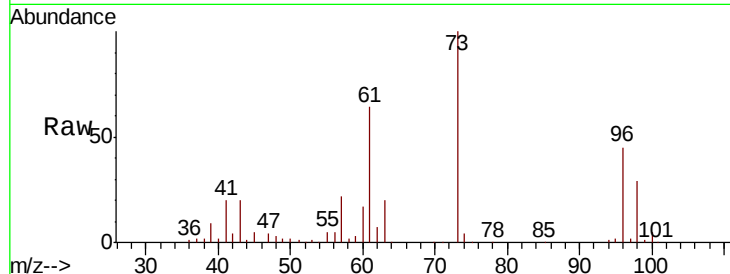
Tot Ion: 96 Resp: 199567

Ion Ratio Lower Upper

96 100

61 141.8 100.4 186.4

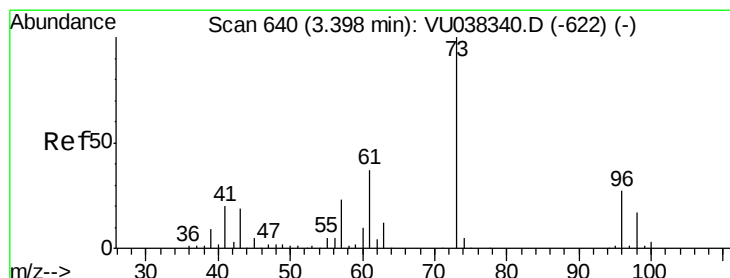
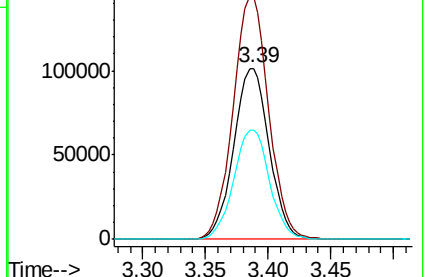
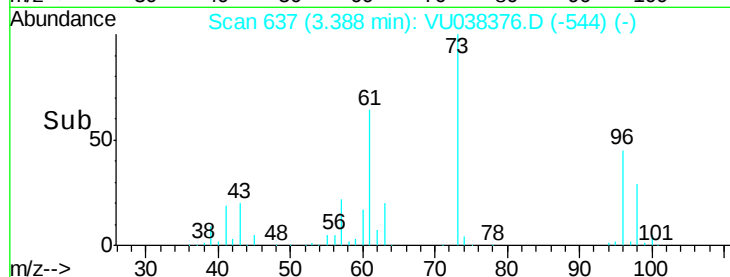
98 64.2 46.1 85.5



Abundance Ion 96.00 (95.70 to 96.70): VU038376.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU038376.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU038376.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 52.009 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

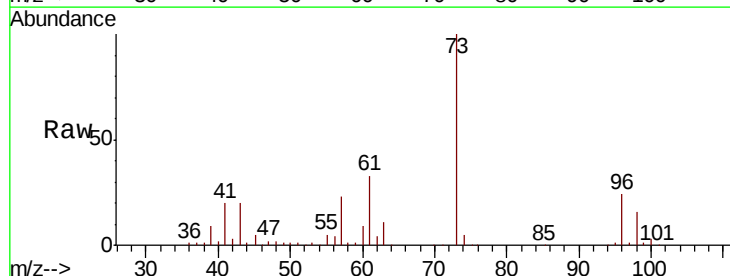
Tgt Ion: 73 Resp: 665867

Ion Ratio Lower Upper

73 100

43 19.9 15.7 23.5

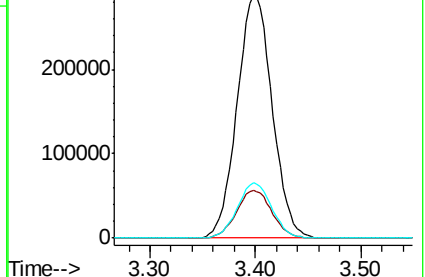
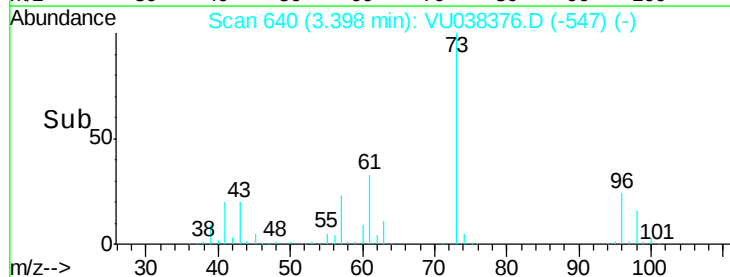
57 22.3 17.7 26.5

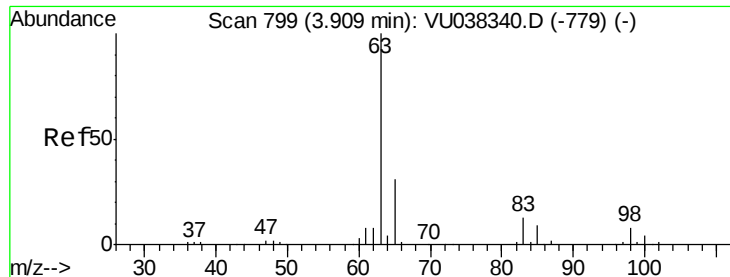


Abundance Ion 73.00 (72.70 to 73.70): VU038376.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU038376.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU038376.D (-547) (-)

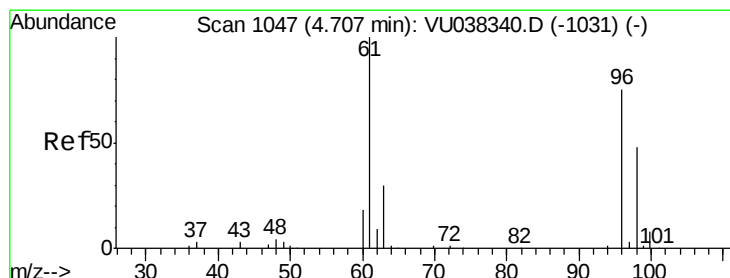
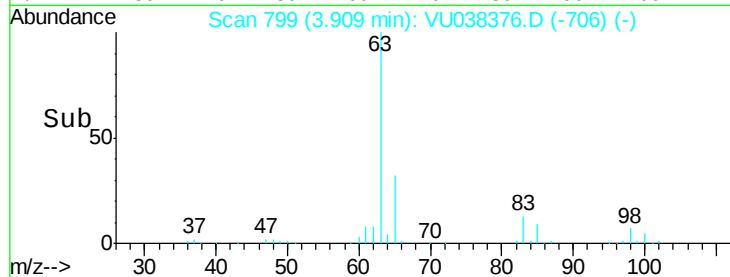
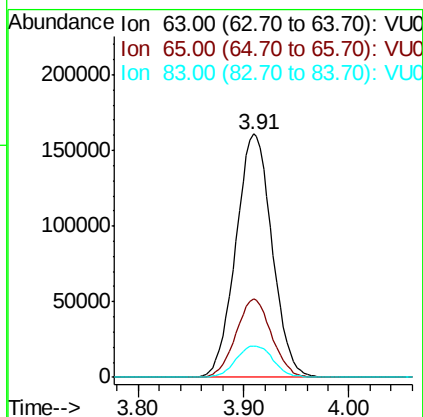
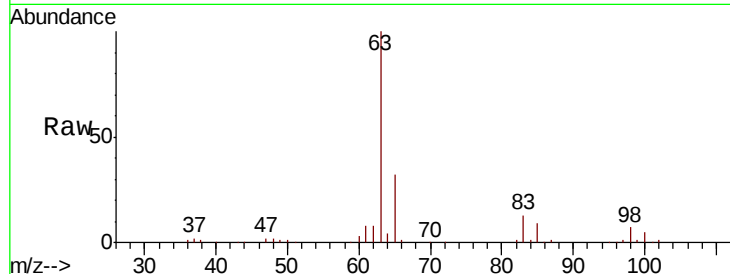




#19
 1,1-Dichloroethane
 Concen: 50.695 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

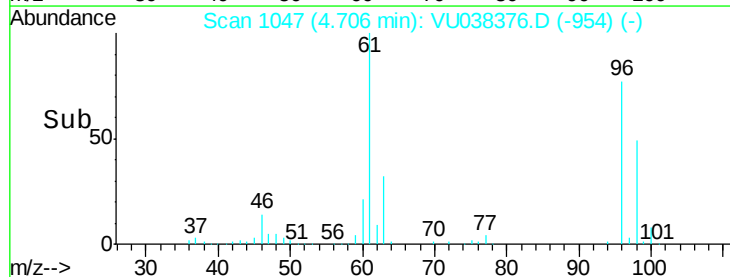
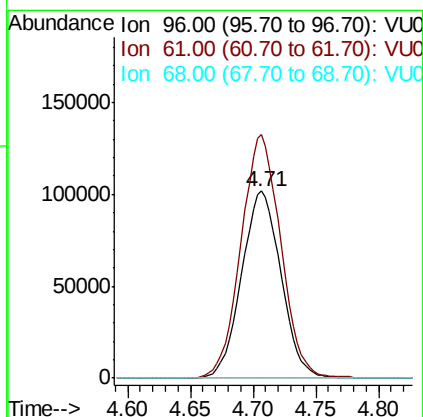
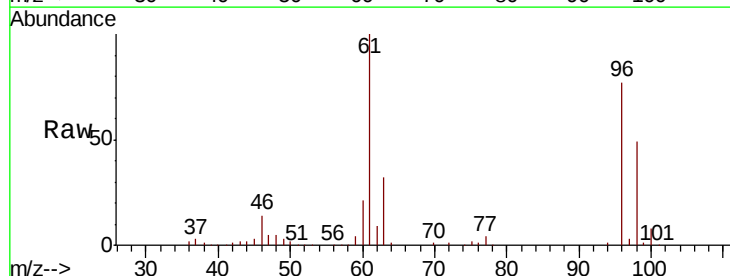
Instrument :
 MSVOA_U
 ClientSampleId :

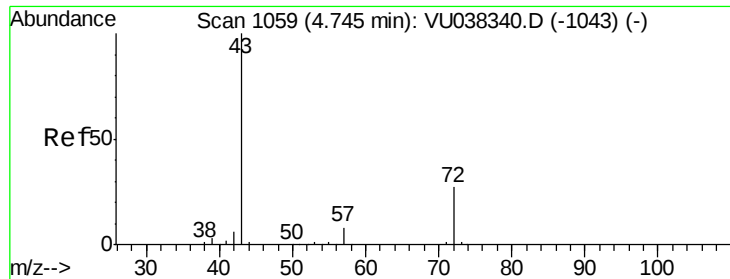
Tot Ion: 63 Resp: 383302
 Ion Ratio Lower Upper
 63 100
 65 32.2 22.2 41.2
 83 13.0 9.4 17.4



#20
 cis-1,2-Dichloroethene
 Concen: 50.762 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

Tgt Ion: 96 Resp: 222018
 Ion Ratio Lower Upper
 96 100
 61 130.2 93.4 173.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 100.425 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

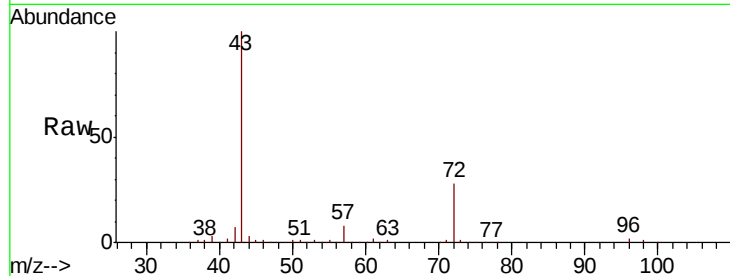
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 427780

Ion Ratio Lower Upper

43 100

72 27.6 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VU038376.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU038376.D (-966) (-)

4.75

200000

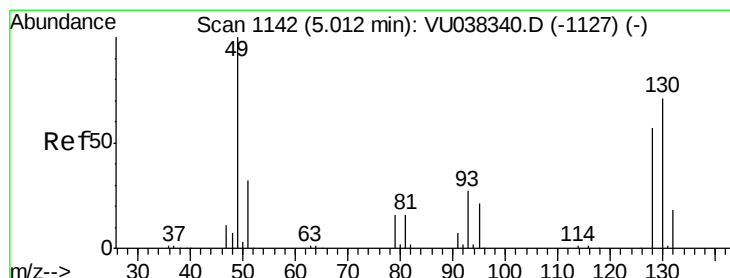
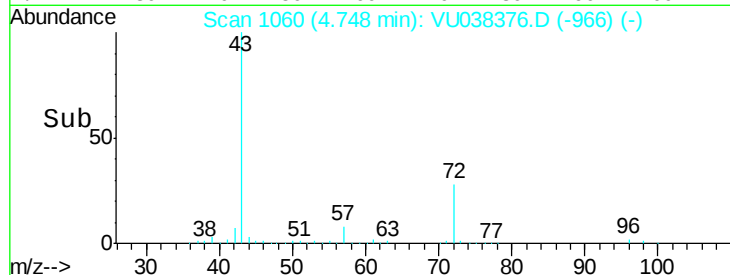
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 51.180 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Tgt Ion: 128 Resp: 110819

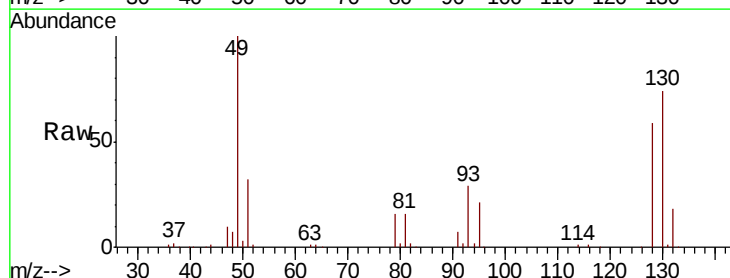
Ion Ratio Lower Upper

128 100

49 170.5 120.1 223.1

130 126.9 88.1 163.5

51 53.8 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VU038376.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU038376.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU038376.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU038376.D (-1049) (-)

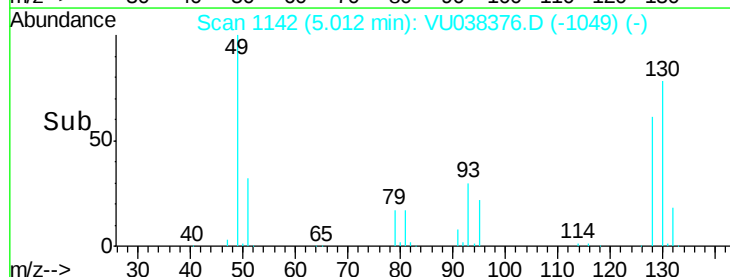
5.01

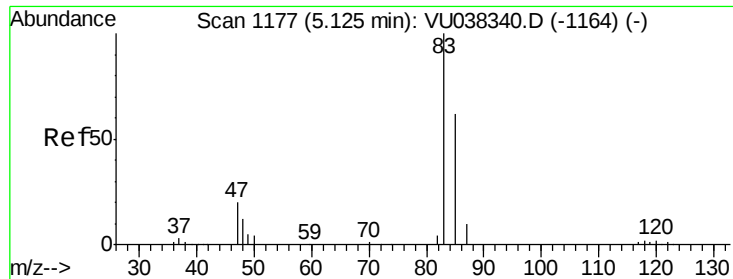
100000

50000

0

Time-->

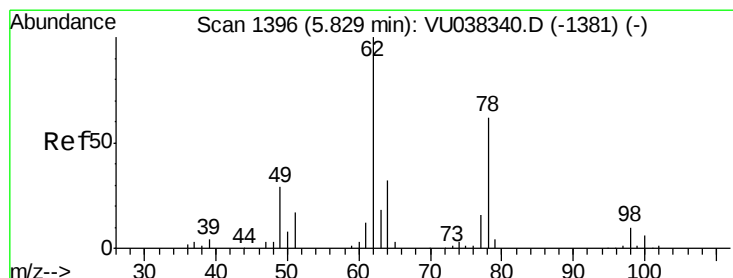
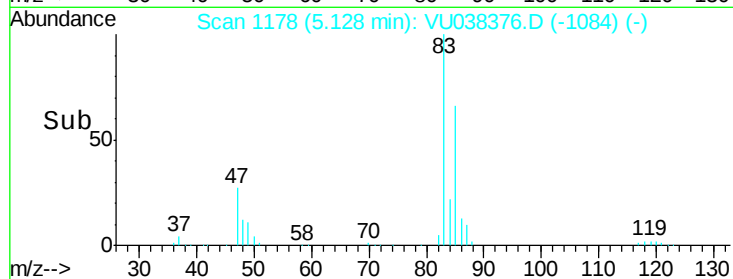
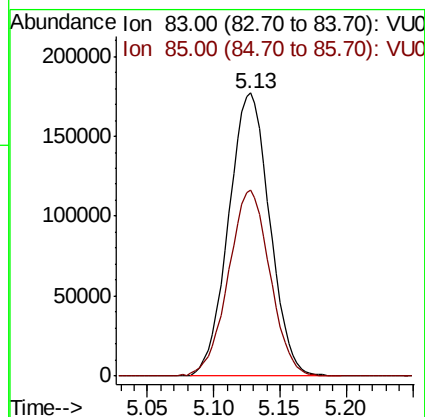
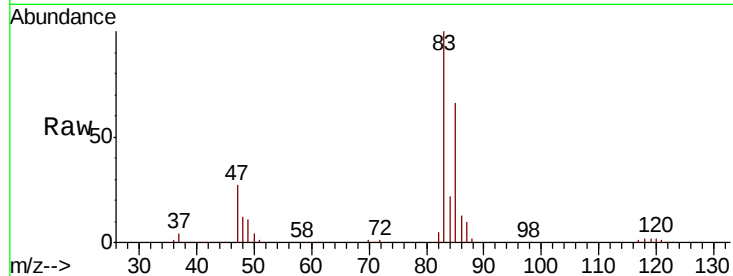




#25
Chloroform
Concen: 49.178 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

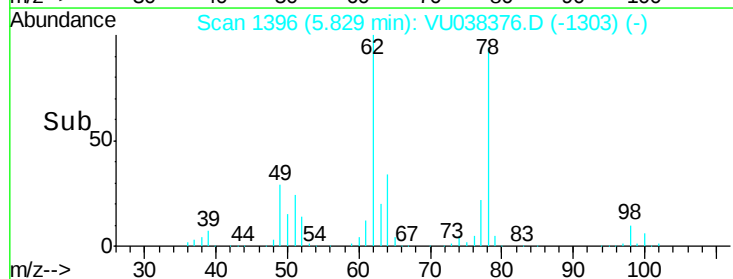
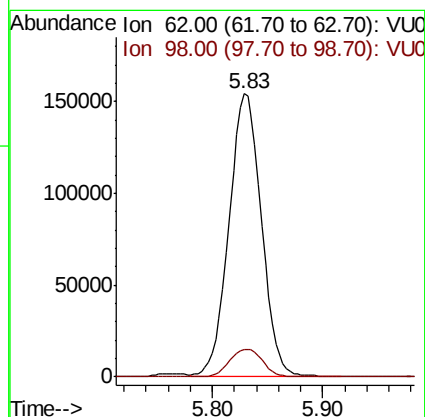
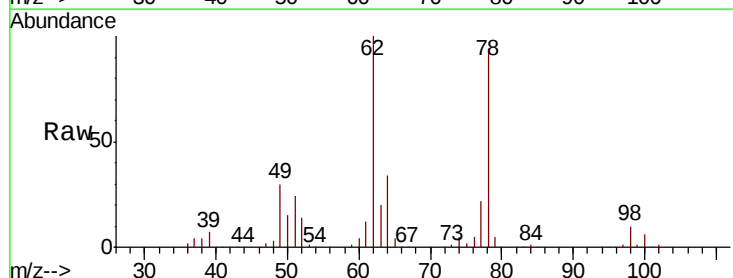
Instrument :
MSVOA_U
ClientSampleId :

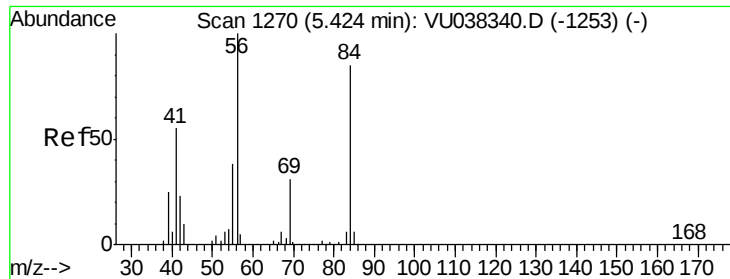
Tot Ion: 83 Resp: 382382
Ion Ratio Lower Upper
83 100
85 65.9 44.9 83.5



#27
1,2-Dichloroethane
Concen: 50.054 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

Tgt Ion: 62 Resp: 315125
Ion Ratio Lower Upper
62 100
98 9.7 7.5 11.3

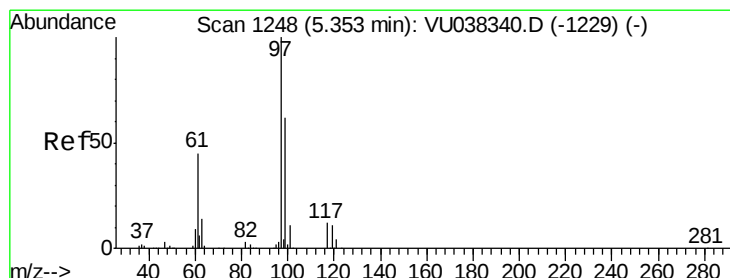
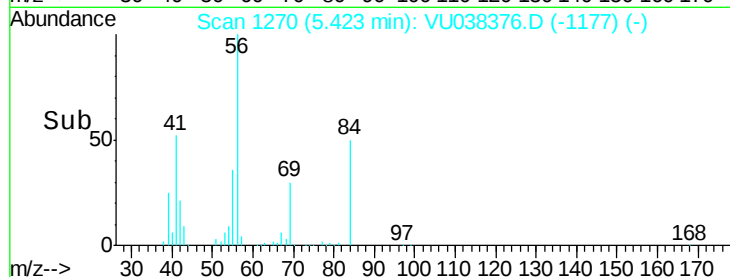
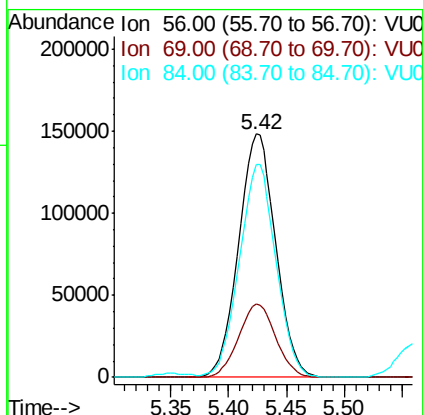
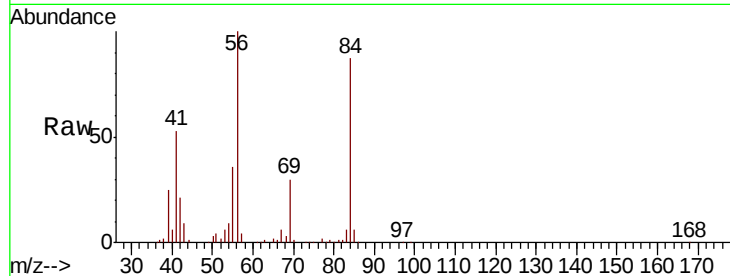




#29
Cyclohexane
Concen: 48.094 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

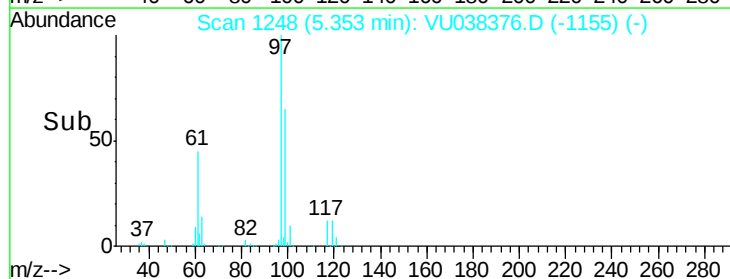
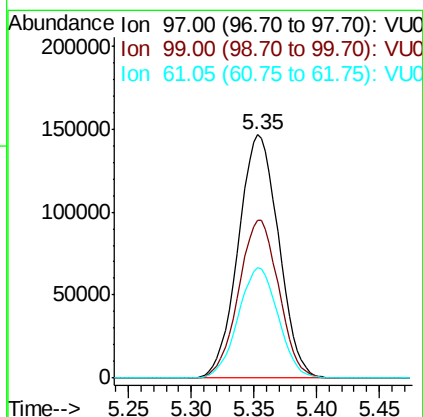
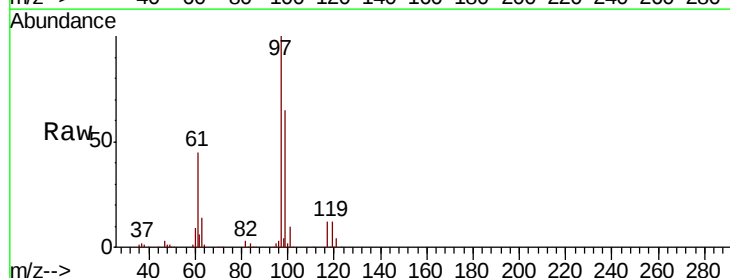
Instrument :
MSVOA_U
ClientSampled :

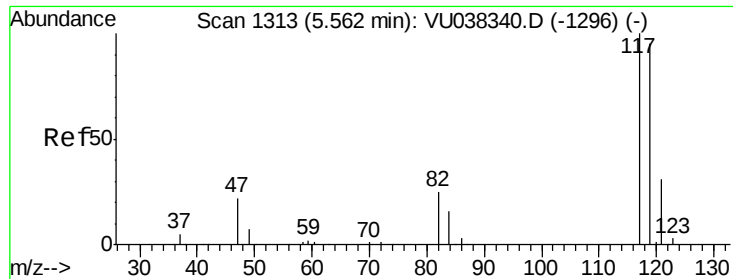
Tot Ion	56	Resp	329101
Ion Ratio	100	Lower	Upper
69	30.3	24.7	37.1
84	86.6	68.2	102.4



#30
1,1,1-Trichloroethane
Concen: 50.577 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

Tgt Ion	97	Resp	328232
Ion Ratio	100	Lower	Upper
99	64.7	51.2	76.8
61	45.2	35.9	53.9





#31

Carbon tetrachloride

Concen: 49.637 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

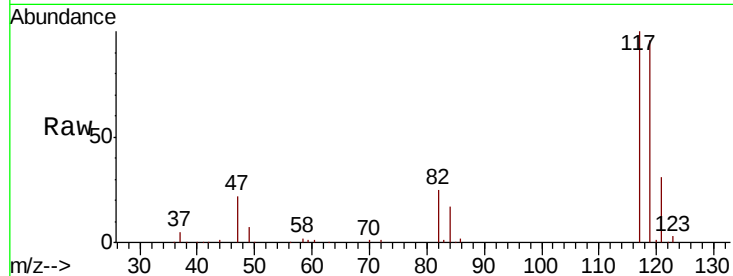
ClientSampled :

Tot Ion:117 Resp: 268476

Ion Ratio Lower Upper

117 100

119 96.2 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

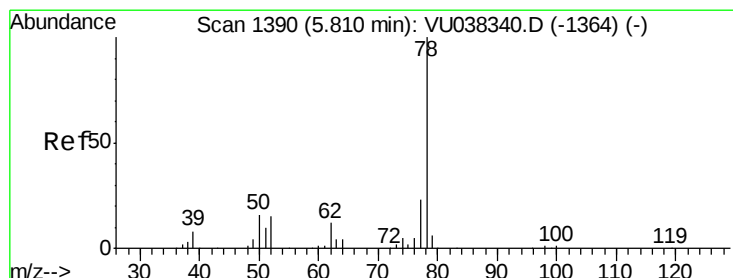
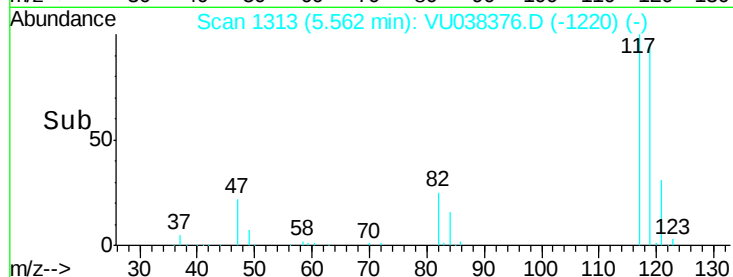
100000

50000

0

Time-->

5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 51.246 ug/L

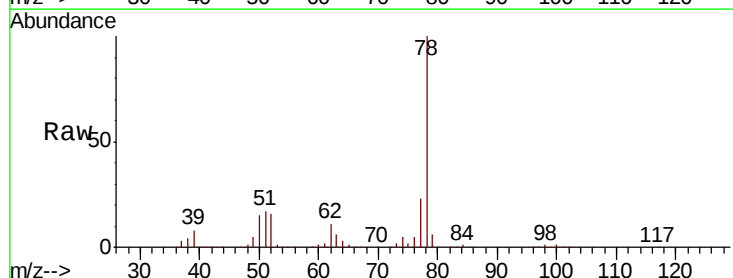
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Tgt Ion: 78 Resp: 858994



Abundance Ion 78.00 (77.70 to 78.70): VU0

500000

400000

300000

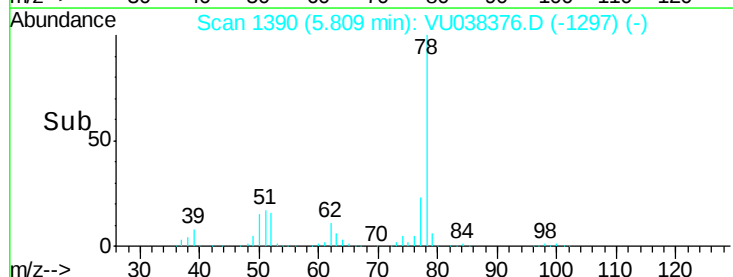
200000

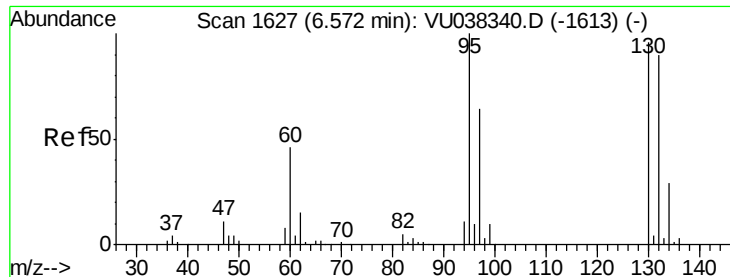
100000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 50.140 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 215031

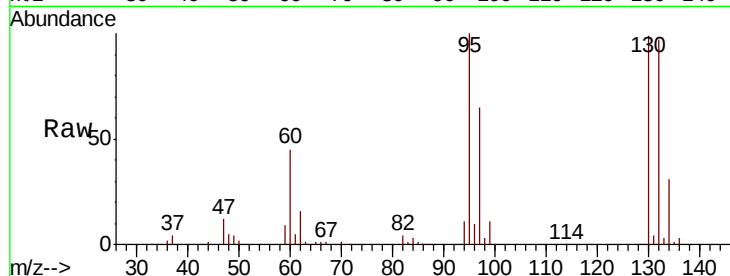
Ion Ratio Lower Upper

95 100

97 64.7 44.3 82.3

132 97.3 64.7 120.1

130 98.6 68.5 127.1

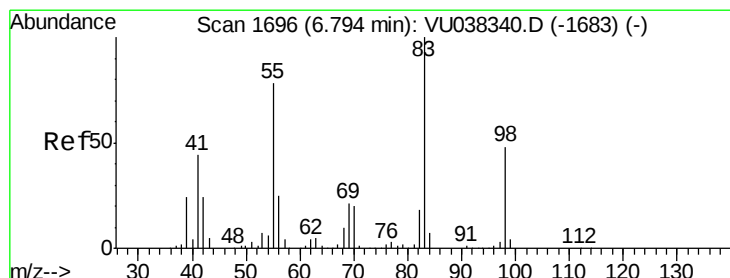
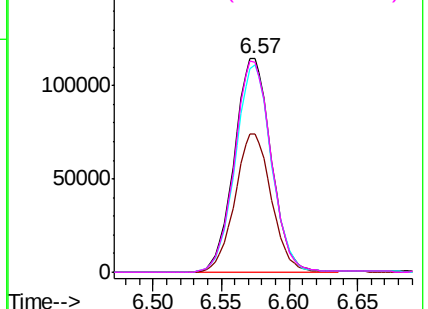
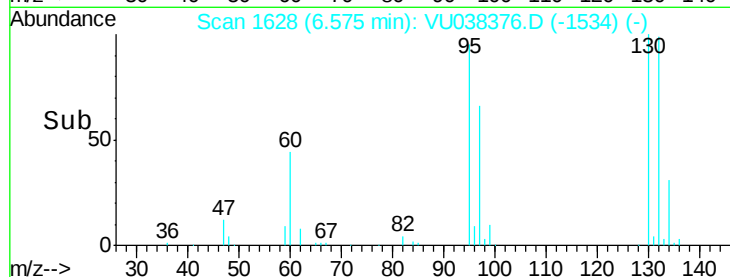


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 48.526 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

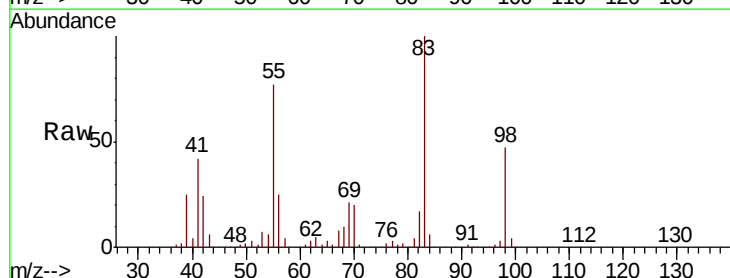
Tgt Ion: 83 Resp: 326744

Ion Ratio Lower Upper

83 100

55 78.0 63.0 94.4

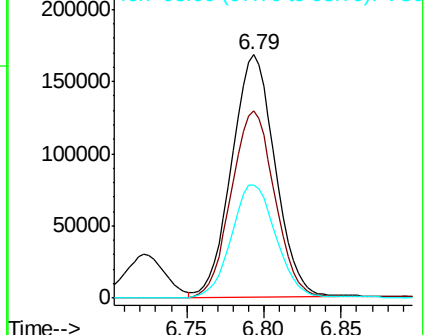
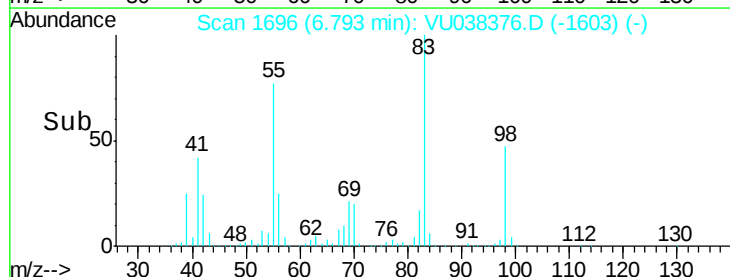
98 48.0 38.6 57.8

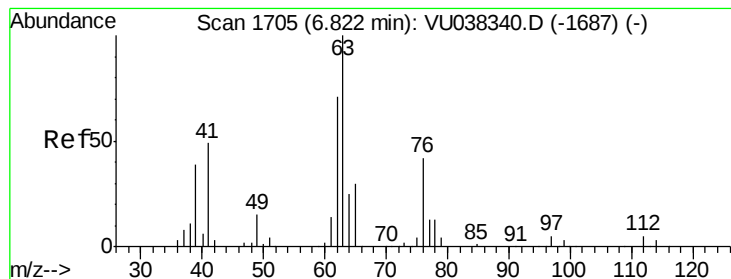


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 51.002 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

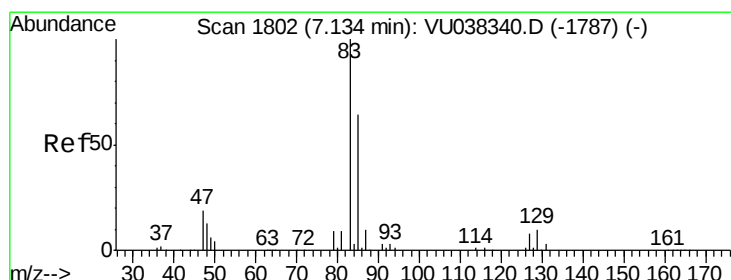
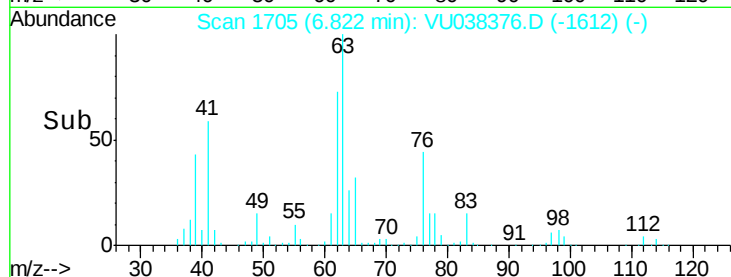
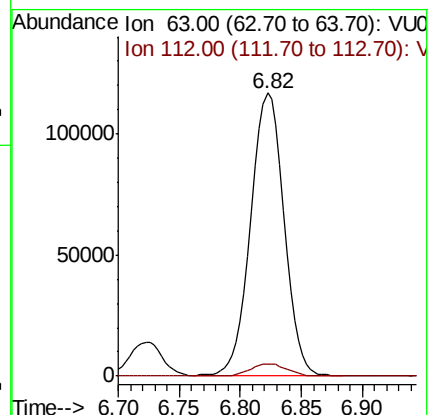
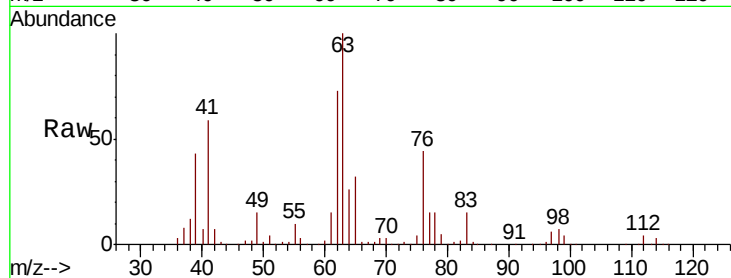
ClientSampled :

Tot Ion: 63 Resp: 221715

Ion Ratio Lower Upper

63 100

112 4.6 3.6 5.4



#38

Bromodichloromethane

Concen: 52.114 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

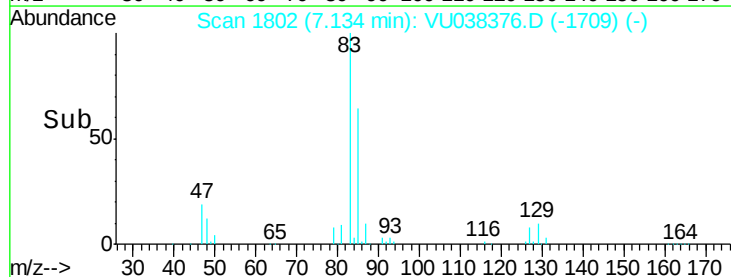
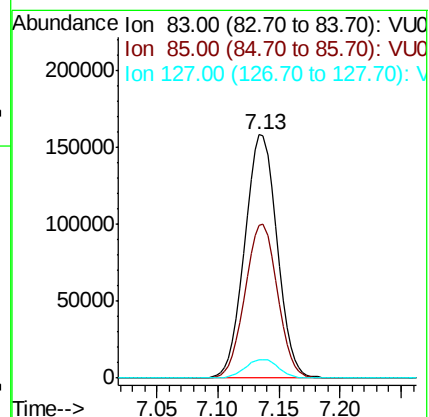
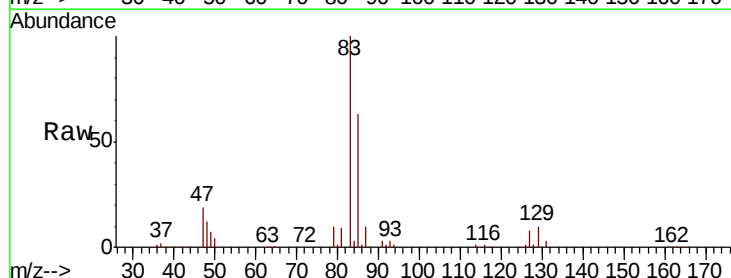
Tgt Ion: 83 Resp: 290321

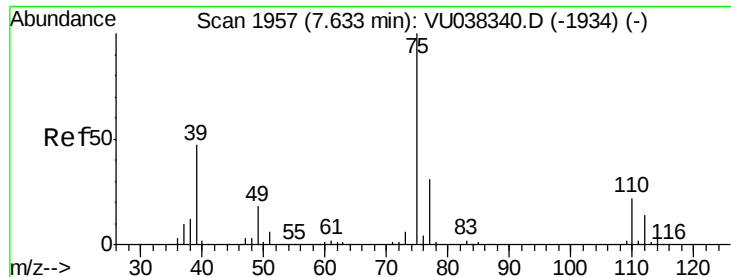
Ion Ratio Lower Upper

83 100

85 63.0 45.5 84.5

127 7.7 7.0 10.4

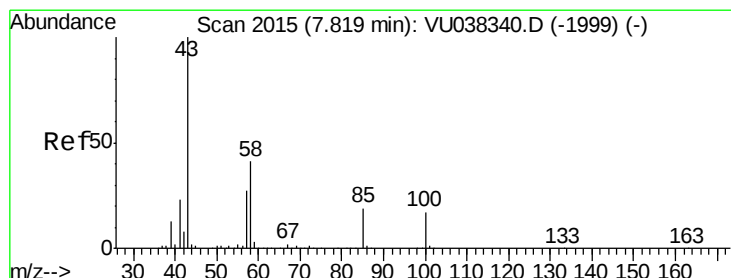
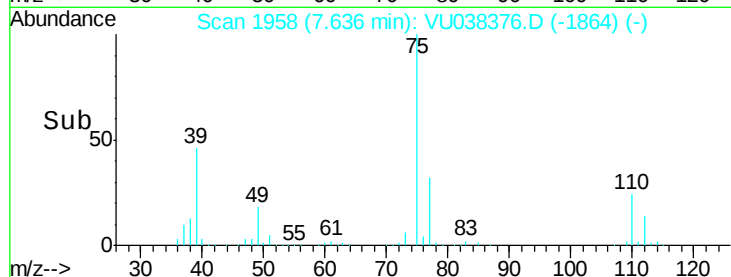
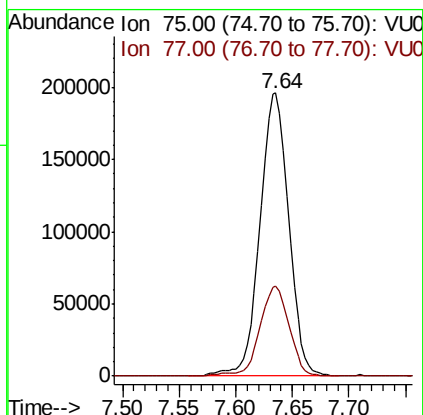
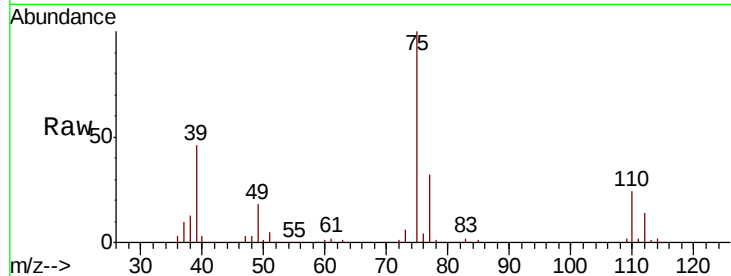




#39
 cis-1,3-Dichloropropene
 Concen: 50.171 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

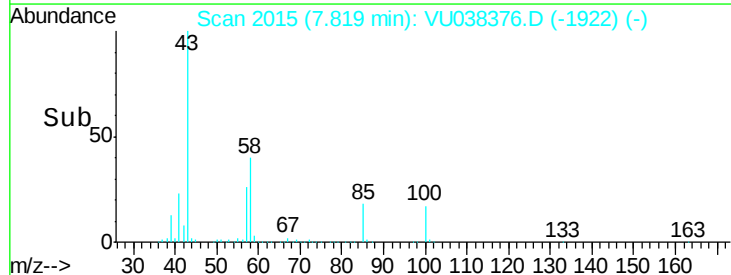
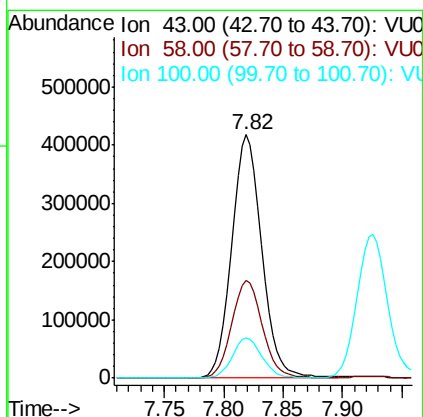
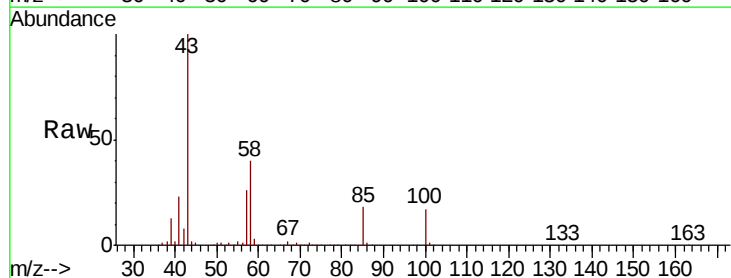
Instrument :
 MSVOA_U
 ClientSampleId :

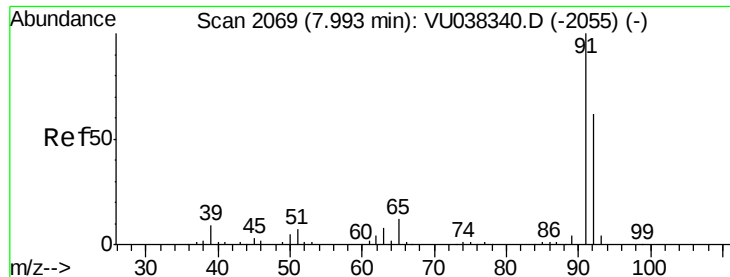
Tot Ion: 75 Resp: 347061
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.6 40.0



#40
 4-Methyl-2-pentanone
 Concen: 106.103 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. -0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

Tgt Ion: 43 Resp: 733543
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.6 48.8
 100 16.5 12.9 19.3





#42

Toluene

Concen: 51.205 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

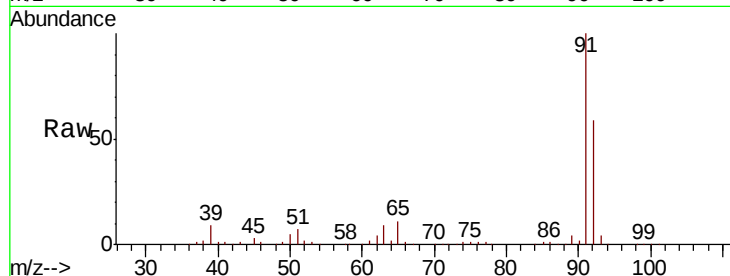
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 91 Resp: 901096

Ion Ratio Lower Upper

91 100

92 58.7 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2055) (-)

Ion 92.00 (91.70 to 92.70): VU038340.D (-2055) (-)

8.00

500000

400000

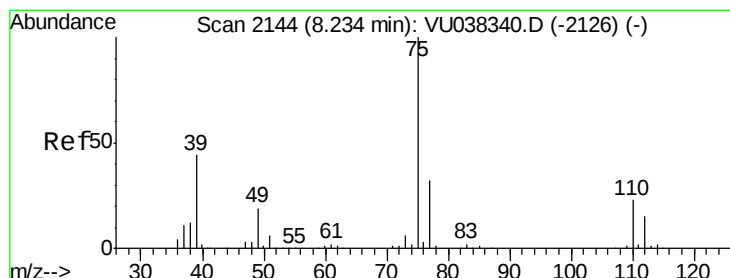
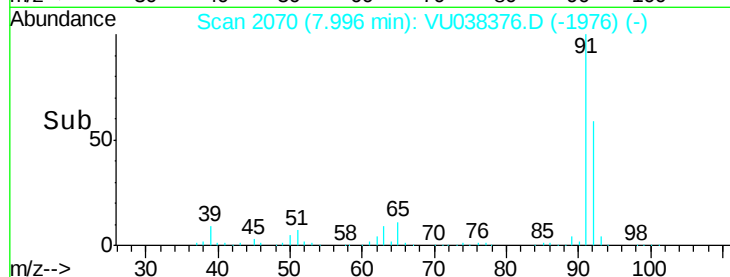
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 52.329 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU038376.D

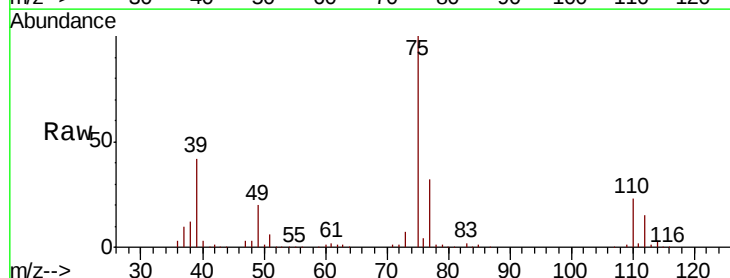
Acq: 29 May 2020 13:30

Tgt Ion: 75 Resp: 338845

Ion Ratio Lower Upper

75 100

77 31.8 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU038340.D (-2126) (-)

Ion 77.00 (76.70 to 77.70): VU038340.D (-2126) (-)

8.23

200000

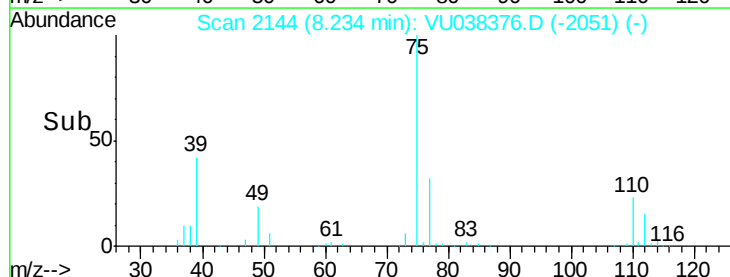
150000

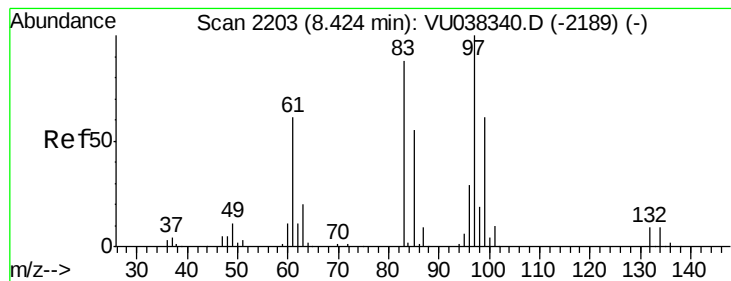
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 52.278 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 215661

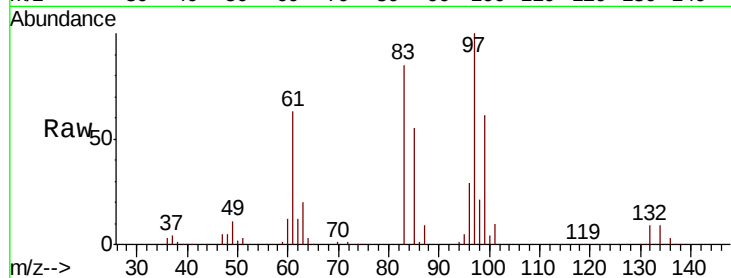
Ion Ratio Lower Upper

97 100

99 61.0 44.0 81.8

83 85.3 60.8 113.0

85 54.7 38.1 70.9



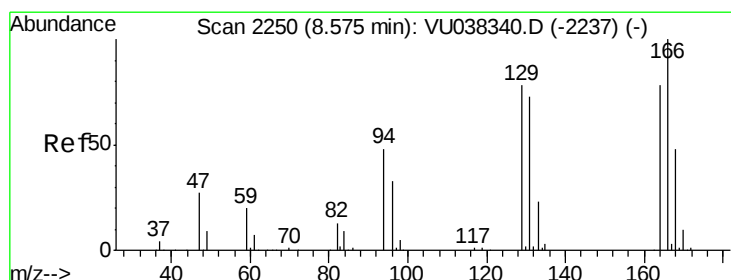
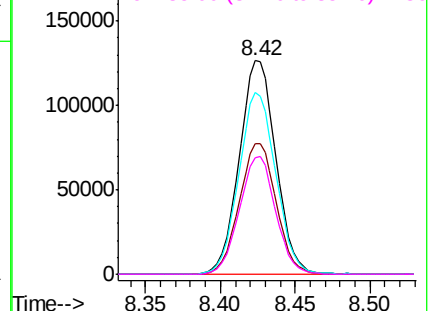
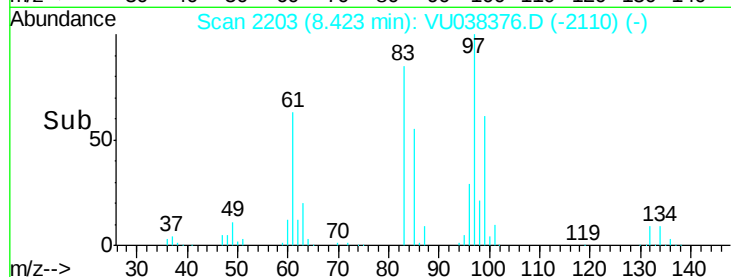
Abundance

Ion 97.00 (96.70 to 97.70): VU038376.D (-2110) (-)

Ion 99.00 (98.70 to 99.70): VU038376.D (-2110) (-)

Ion 83.00 (82.70 to 83.70): VU038376.D (-2110) (-)

Ion 85.00 (84.70 to 85.70): VU038376.D (-2110) (-)



#46

Tetrachloroethene

Concen: 48.563 ug/L

RT: 8.58 min Scan# 2251

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Tgt Ion: 164 Resp: 152259

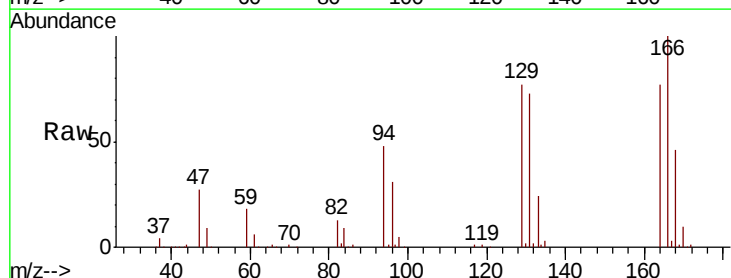
Ion Ratio Lower Upper

164 100

129 99.4 67.2 124.8

131 93.6 63.4 117.8

166 129.1 88.5 164.4



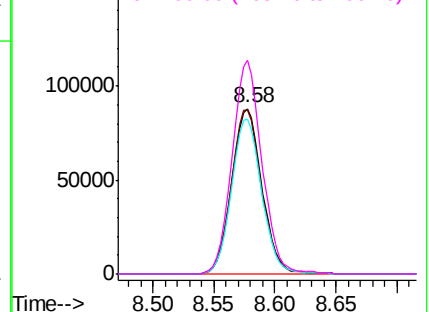
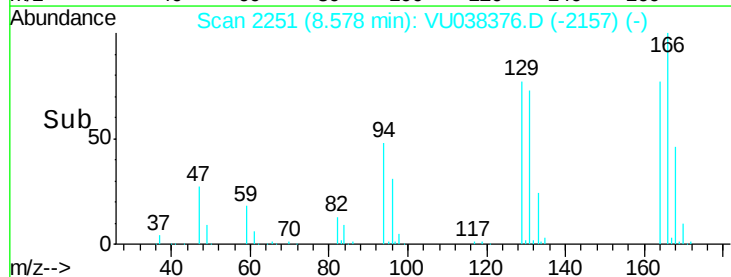
Abundance

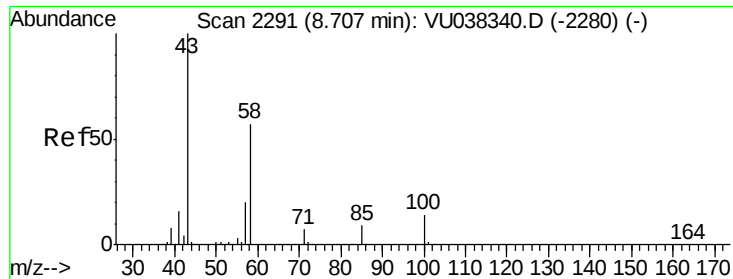
Ion 164.00 (163.70 to 164.70): VU038376.D (-2157) (-)

Ion 129.00 (128.70 to 129.70): VU038376.D (-2157) (-)

Ion 131.00 (130.70 to 131.70): VU038376.D (-2157) (-)

Ion 166.00 (165.70 to 166.70): VU038376.D (-2157) (-)

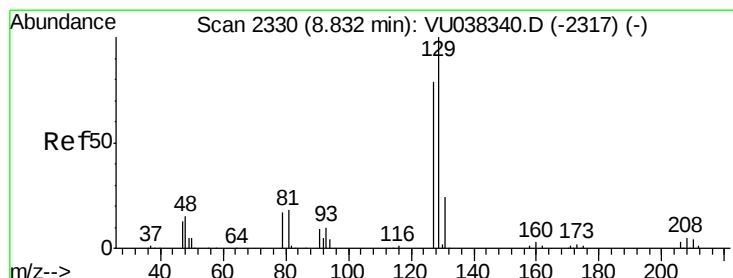
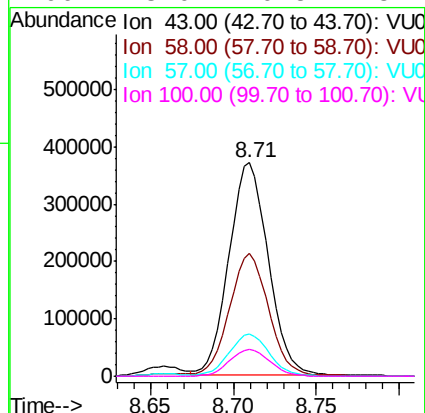
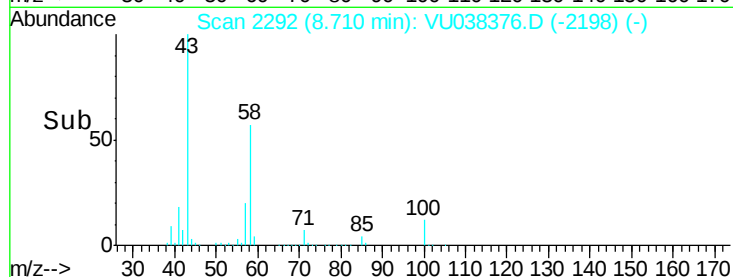
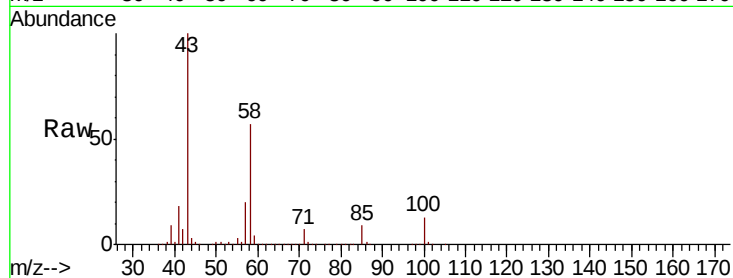




#48
2-Hexanone
Concen: 104.862 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

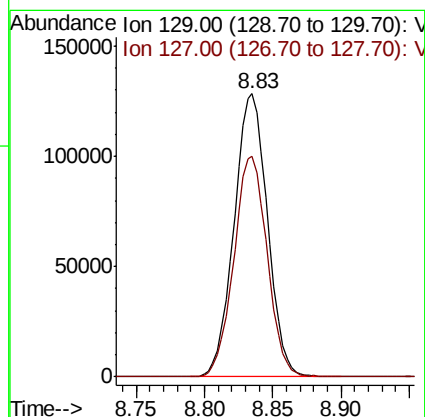
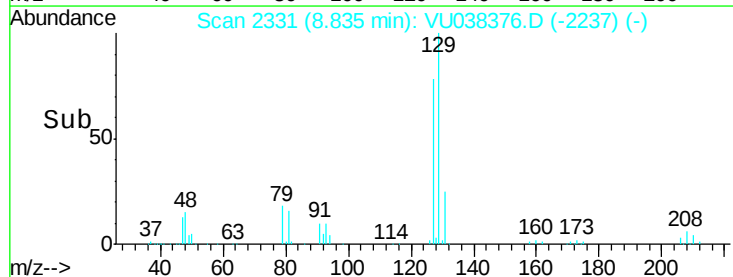
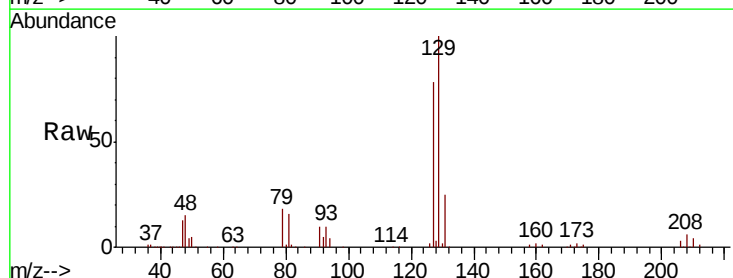
Instrument :
MSVOA_U
ClientSampled :

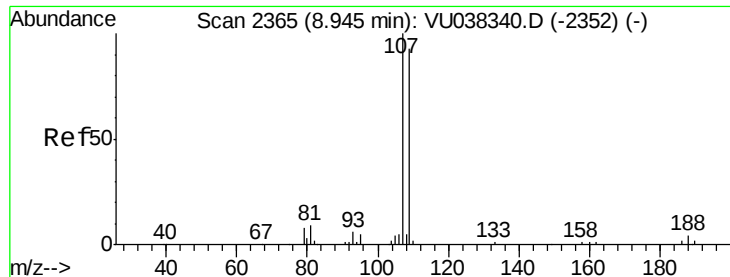
Tot Ion: 43 Resp: 612105
Ion Ratio Lower Upper
43 100
58 57.7 45.5 68.3
57 20.6 16.3 24.5
100 13.0 10.5 15.7



#49
Dibromochloromethane
Concen: 52.304 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU038376.D
Acq: 29 May 2020 13:30

Tgt Ion: 129 Resp: 218468
Ion Ratio Lower Upper
129 100
127 77.8 55.2 102.6

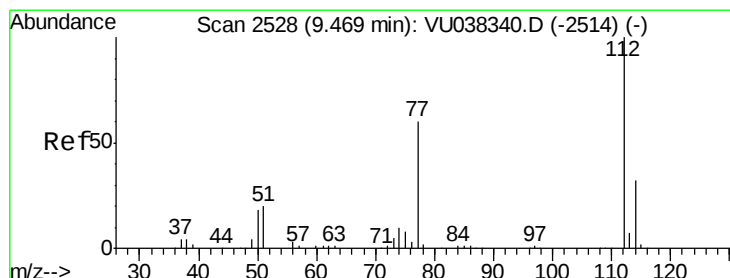
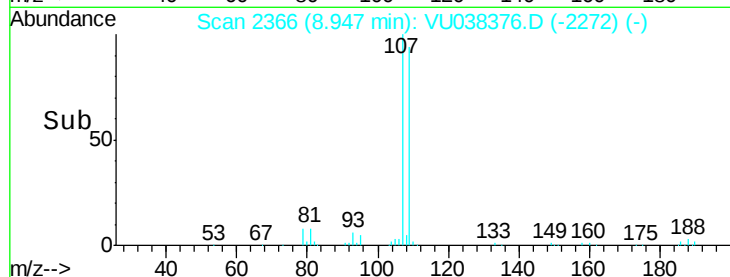
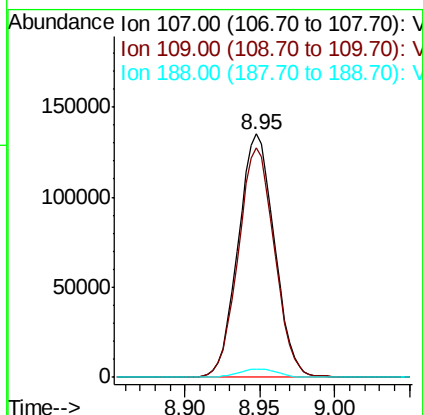
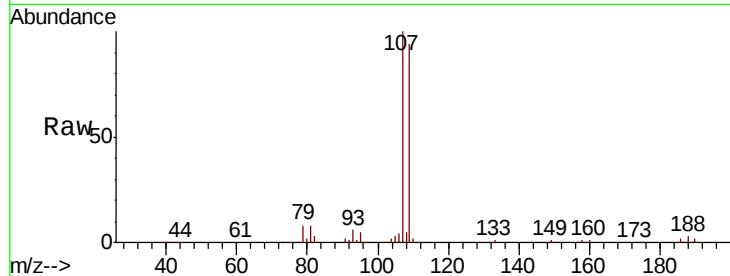




#50
 1,2-Dibromoethane
 Concen: 51.500 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

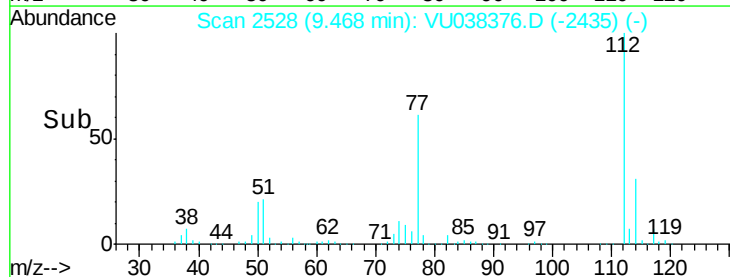
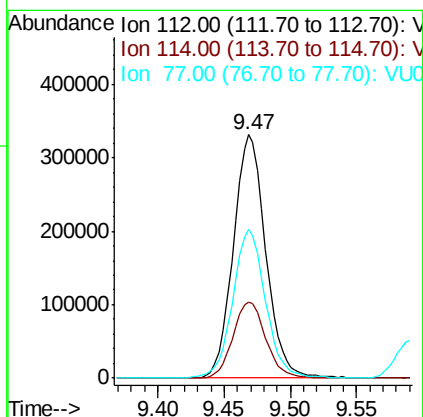
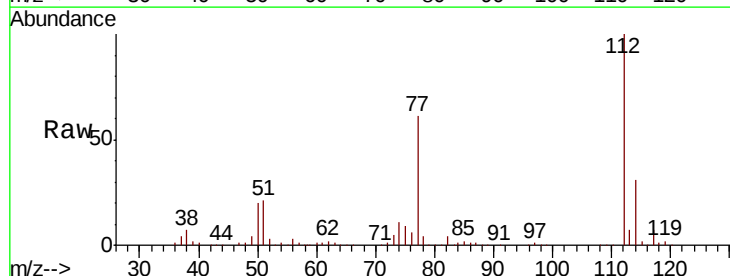
Instrument :
 MSVOA_U
 ClientSampleId :

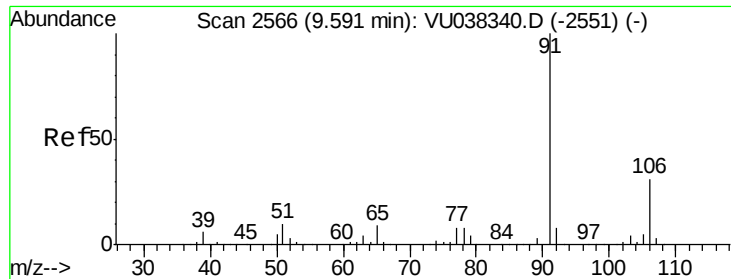
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.0	64.3	119.5
188	3.4	2.8	4.2



#51
 Chlorobenzene
 Concen: 49.700 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. -0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.4	22.6	42.0
77	61.1	48.8	73.2





#52

Ethylbenzene

Concen: 50.181 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

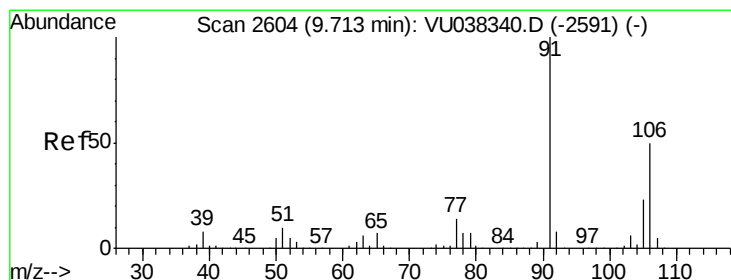
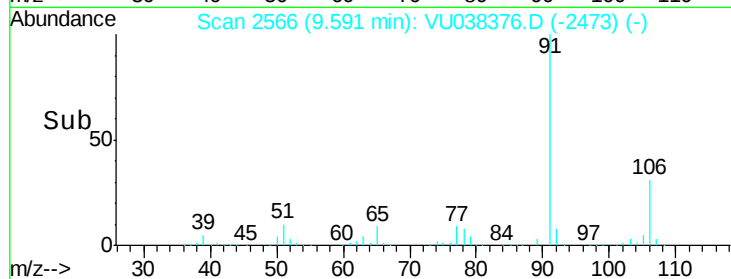
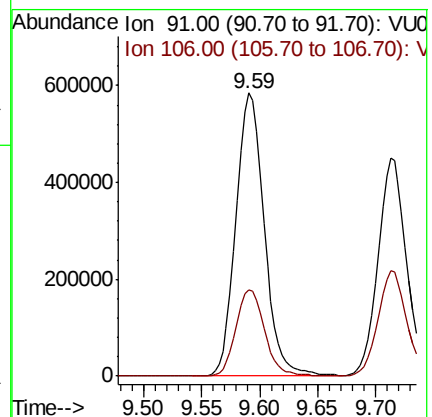
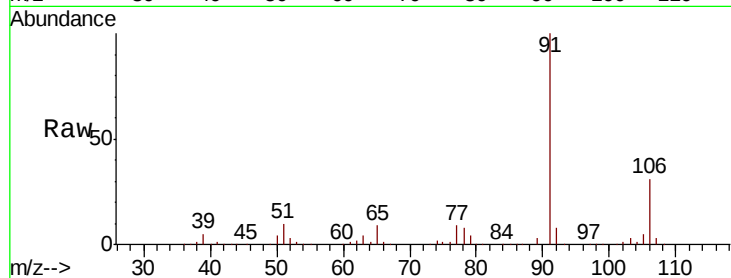
ClientSampleId :

Tot Ion: 91 Resp: 989444

Ion Ratio Lower Upper

91 100

106 30.6 21.2 39.4



#53

m,p-Xylene

Concen: 50.647 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VU038376.D

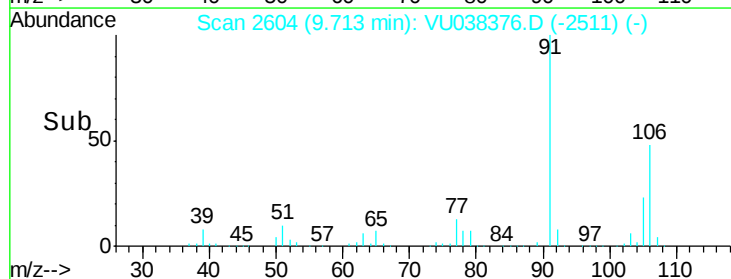
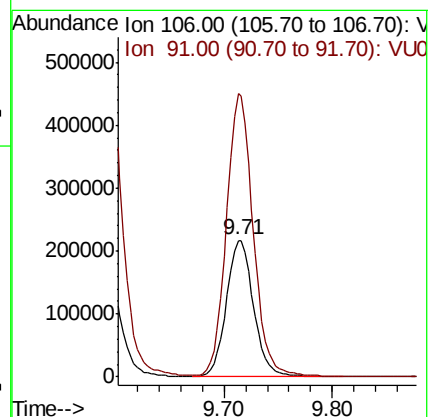
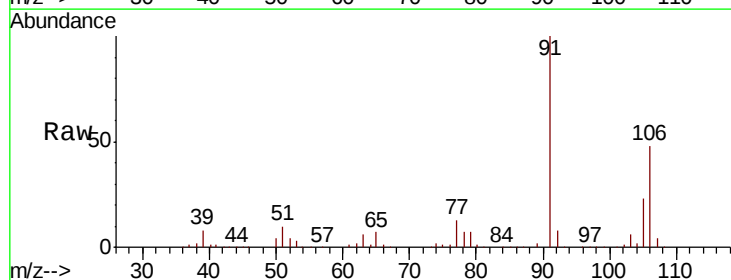
Acq: 29 May 2020 13:30

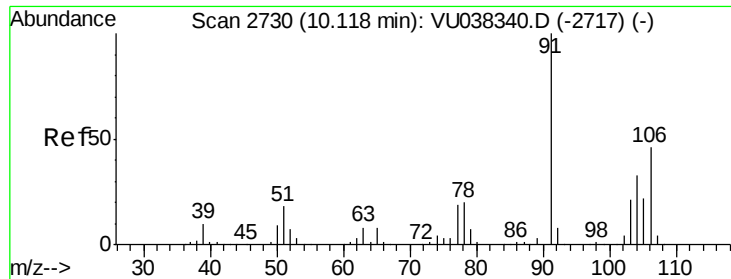
Tgt Ion: 106 Resp: 381901

Ion Ratio Lower Upper

106 100

91 207.1 140.8 261.4





#54

o-xylene

Concen: 51.065 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

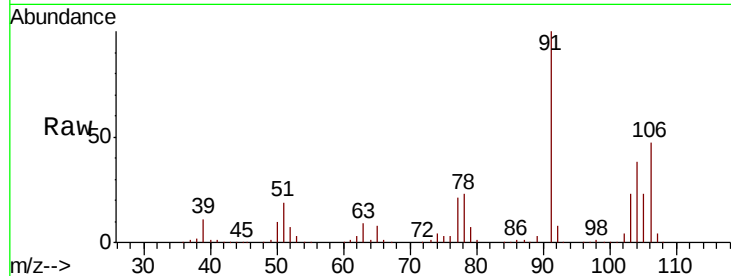
ClientSampleId :

Tot Ion:106 Resp: 374365

Ion Ratio Lower Upper

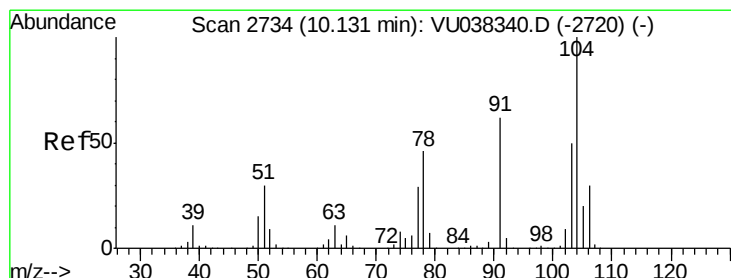
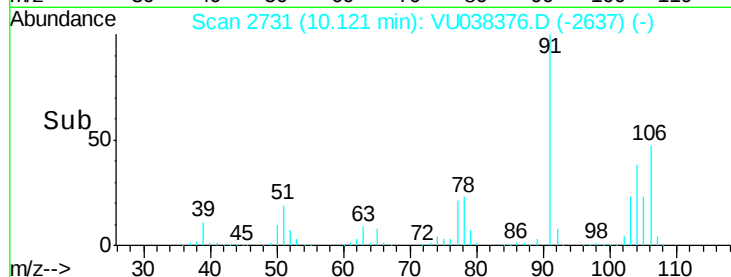
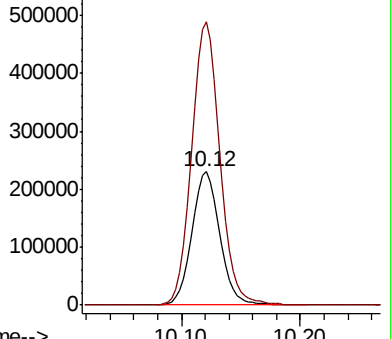
106 100

91 212.5 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.516 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU038376.D

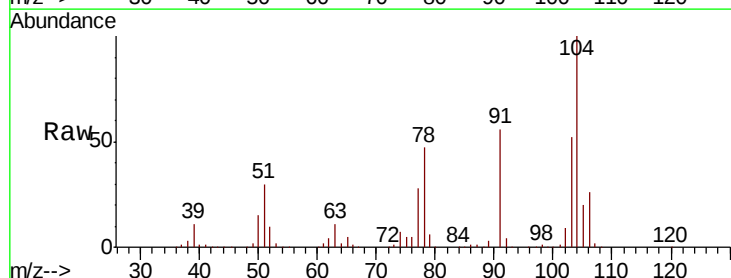
Acq: 29 May 2020 13:30

Tgt Ion:104 Resp: 649101

Ion Ratio Lower Upper

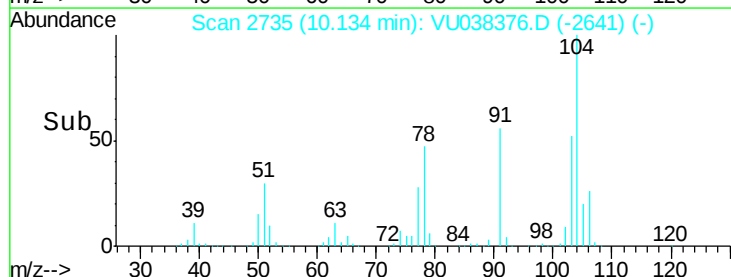
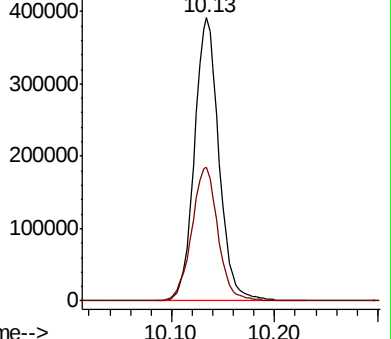
104 100

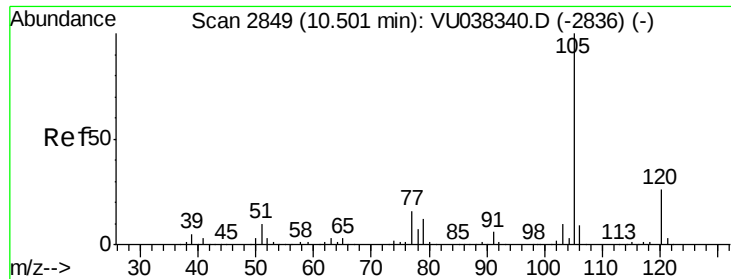
78 47.1 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.875 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

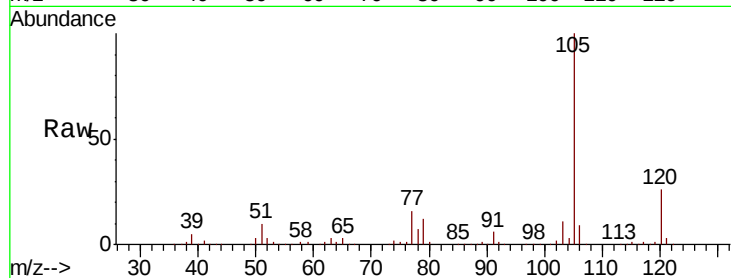
Tot Ion:105 Resp: 955509

Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

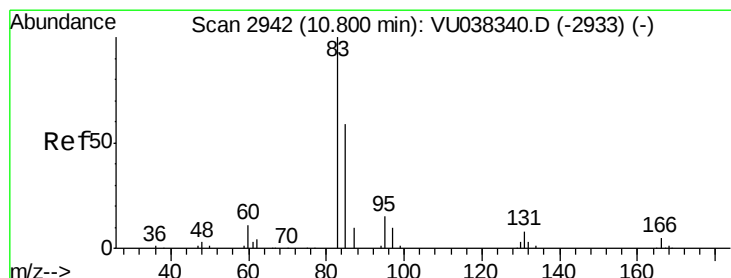
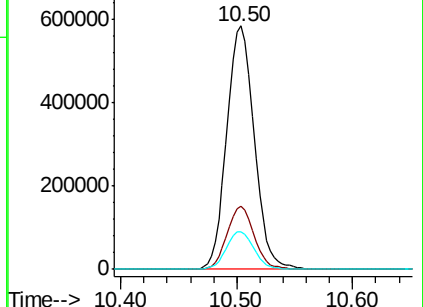
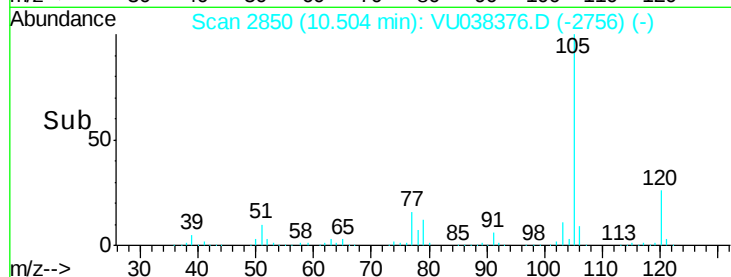
77 15.7 12.8 19.2



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: 51.315 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

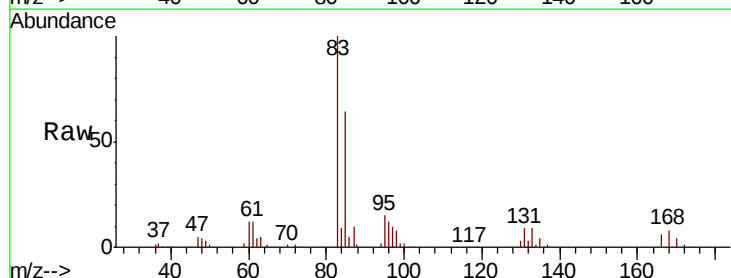
Tgt Ion: 83 Resp: 362265

Ion Ratio Lower Upper

83 100

85 64.2 45.5 84.5

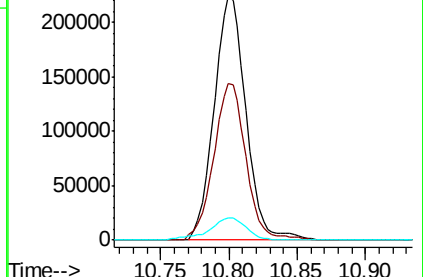
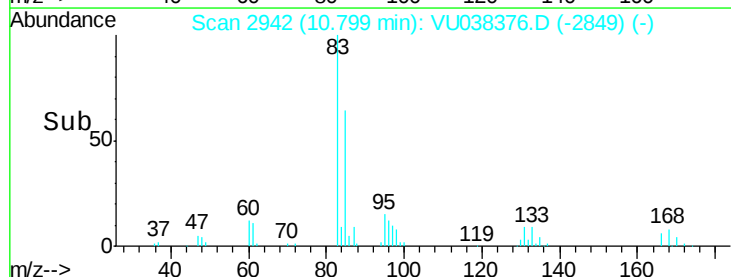
131 9.2 7.3 10.9

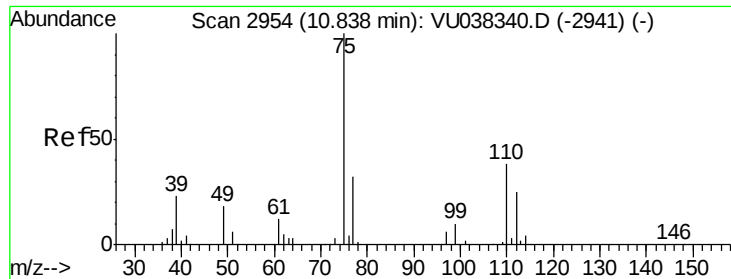


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 51.658 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

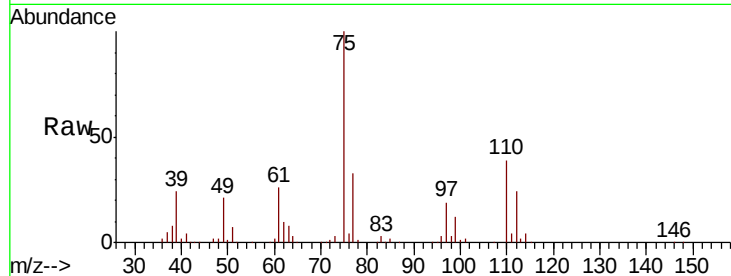
ClientSampled :

Tot Ion: 75 Resp: 314027

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU038376.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU038376.D (-2941) (-)

10.84

200000

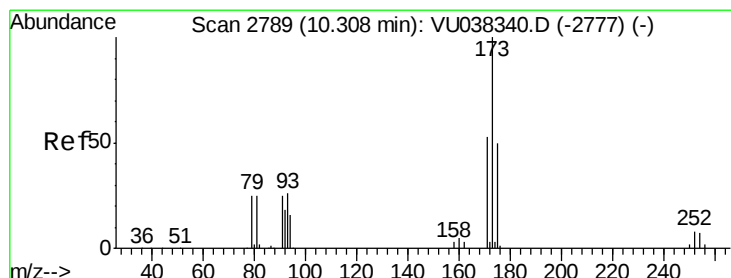
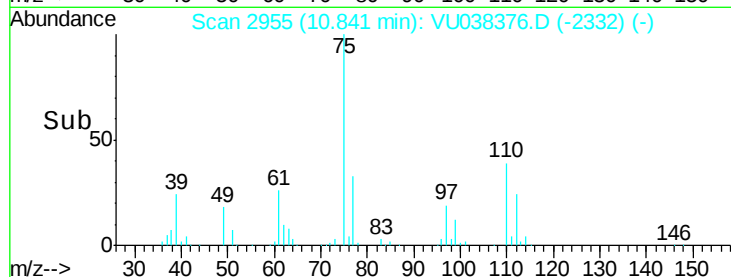
150000

100000

50000

0

Time--> 10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 52.609 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

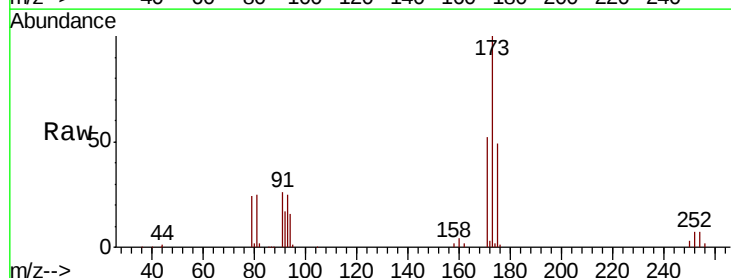
Tgt Ion: 173 Resp: 158088

Ion Ratio Lower Upper

173 100

175 48.9 39.0 58.4

254 7.1 5.3 7.9



Abundance Ion 173.00 (172.70 to 173.70): VU038376.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU038376.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU038376.D (-2777) (-)

10.31

120000

100000

80000

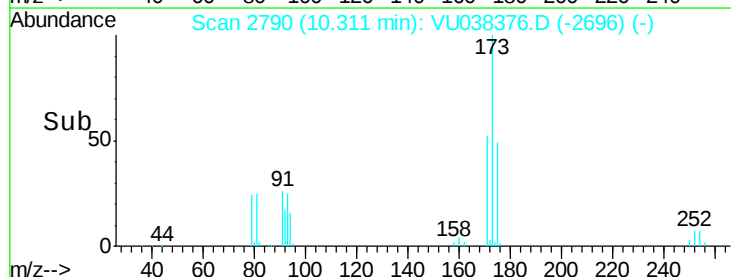
60000

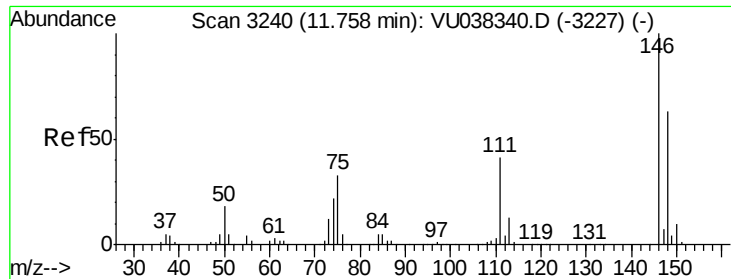
40000

20000

0

Time--> 10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 50.339 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

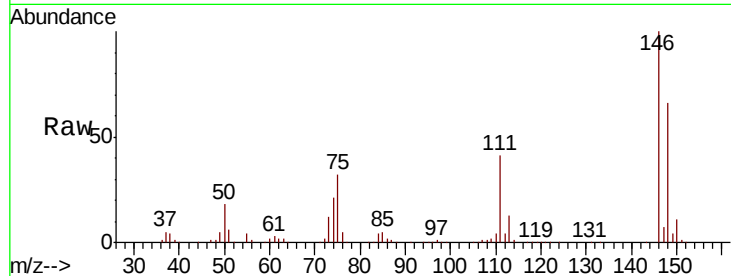
Tot Ion:146 Resp: 440177

Ion Ratio Lower Upper

146 100

111 41.0 29.4 54.6

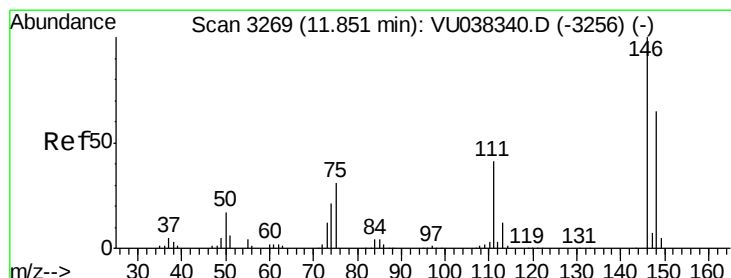
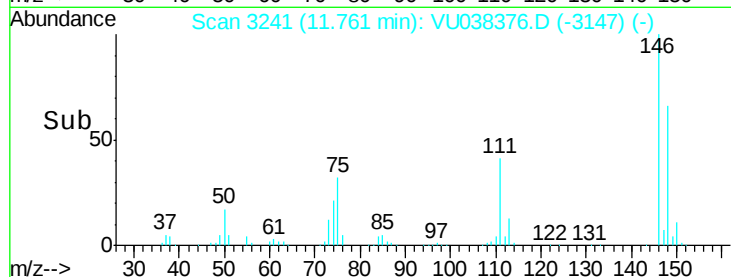
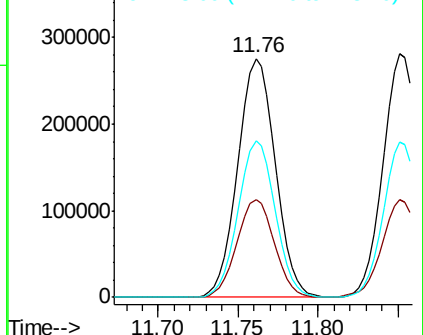
148 65.6 45.8 85.0



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



#63

1,4-Dichlorobenzene

Concen: 50.293 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

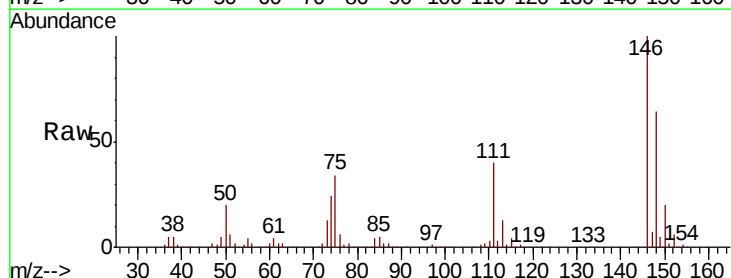
Tgt Ion:146 Resp: 447011

Ion Ratio Lower Upper

146 100

111 40.0 27.7 51.5

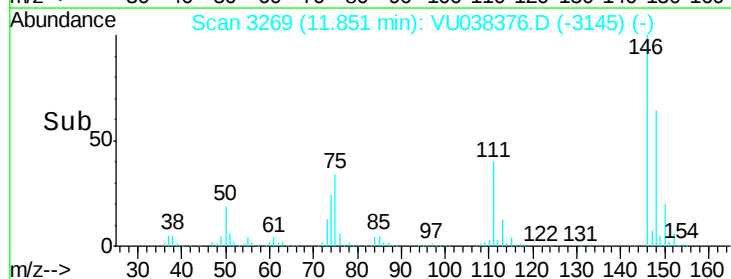
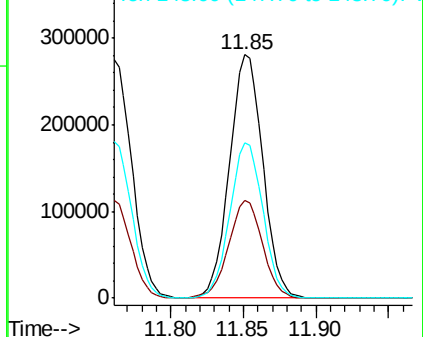
148 64.0 44.7 83.1

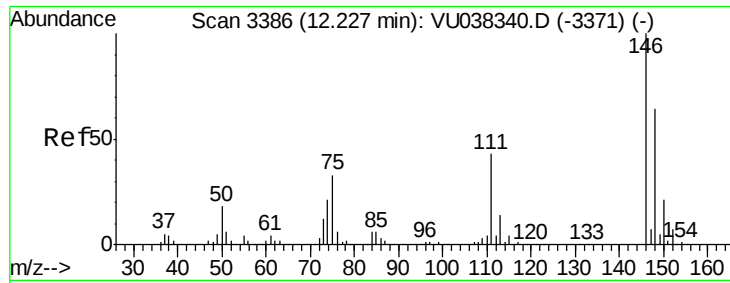


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 50.797 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. -0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

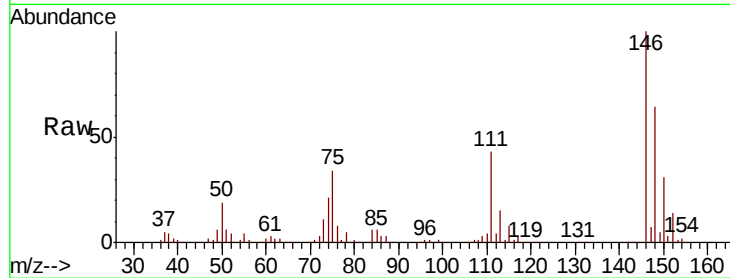
Tot Ion:146 Resp: 440476

Ion Ratio Lower Upper

146 100

111 43.1 35.3 52.9

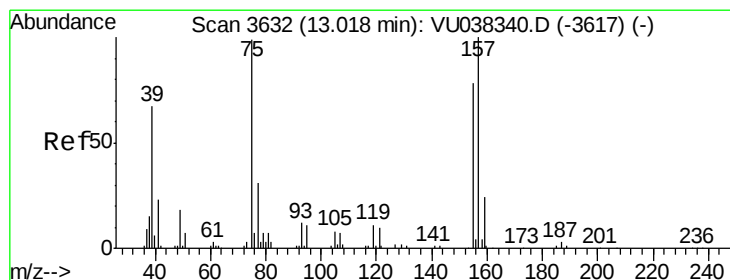
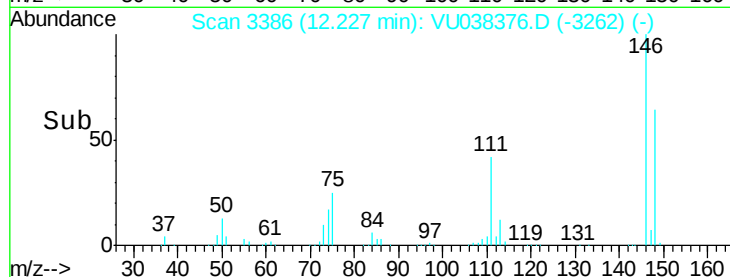
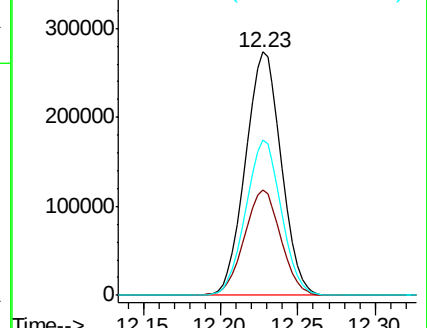
148 63.5 52.5 78.7



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: 53.559 ug/L

RT: 13.02 min Scan# 3633

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

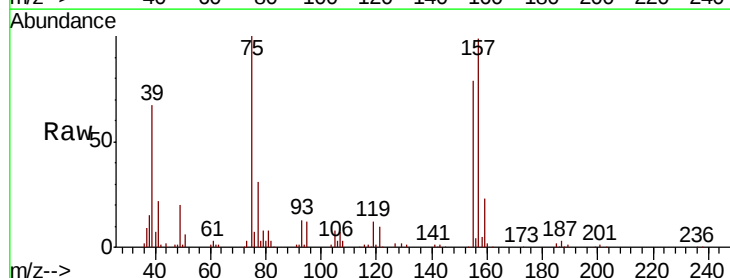
Tgt Ion: 75 Resp: 95078

Ion Ratio Lower Upper

75 100

155 78.8 63.1 94.7

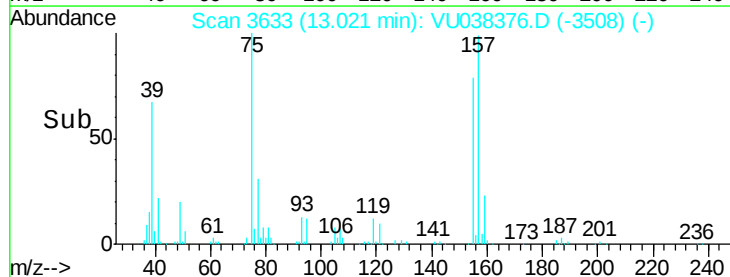
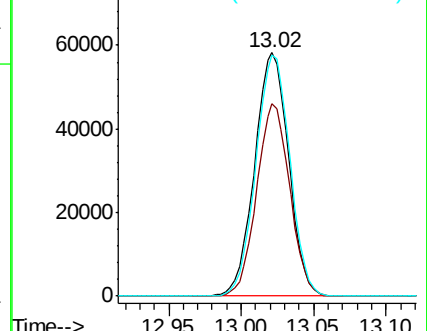
157 99.2 82.7 124.1

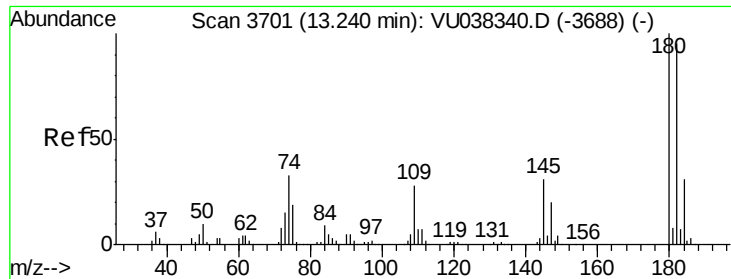


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

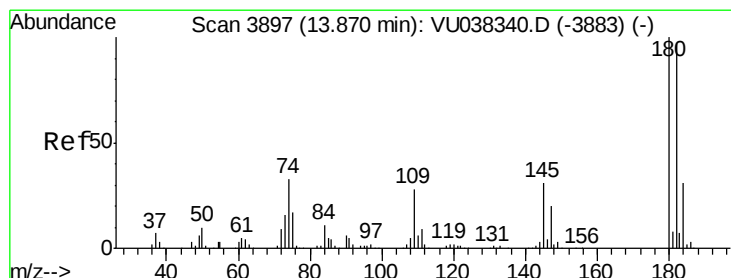
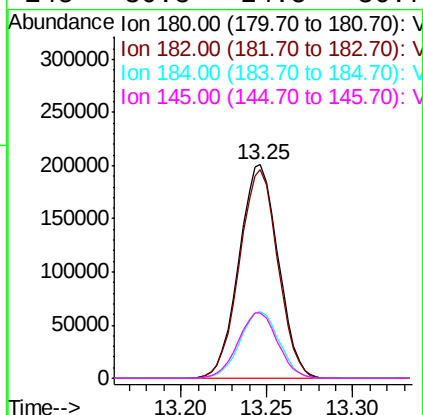
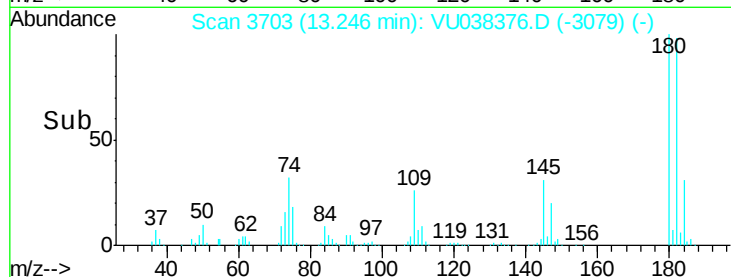
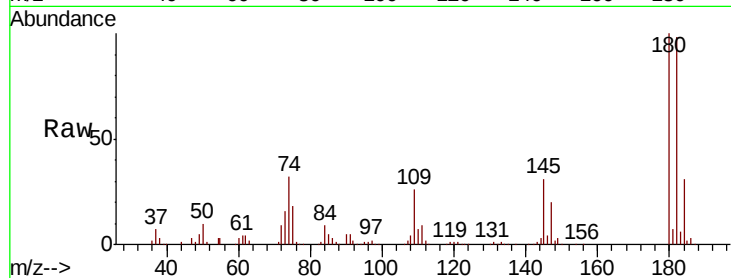




#67
 1,3,5-Trichlorobenzene
 Concen: 51.236 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.01 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

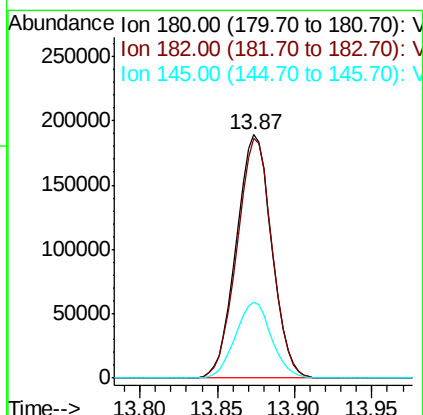
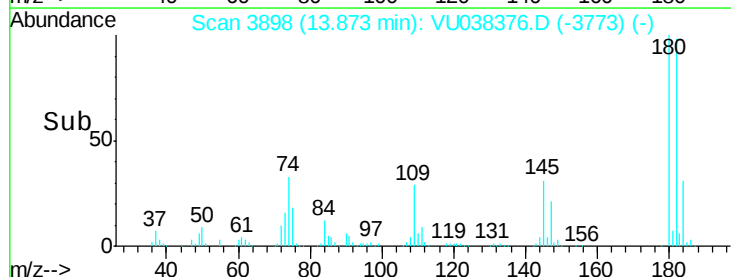
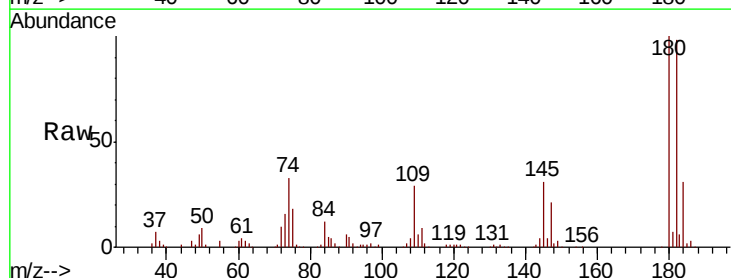
Instrument :
 MSVOA_U
 ClientSampleId :

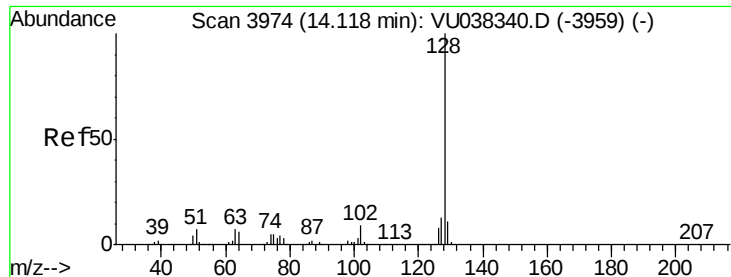
Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.4	116.2
184	31.1	24.3	36.5
145	30.8	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 50.446 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.00 min
 Lab File: VU038376.D
 Acq: 29 May 2020 13:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	77.1	115.7
145	31.6	25.8	38.8





#69

Naphthalene

Concen: 53.737 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. 0.00 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

Instrument :

MSVOA_U

ClientSampleId :

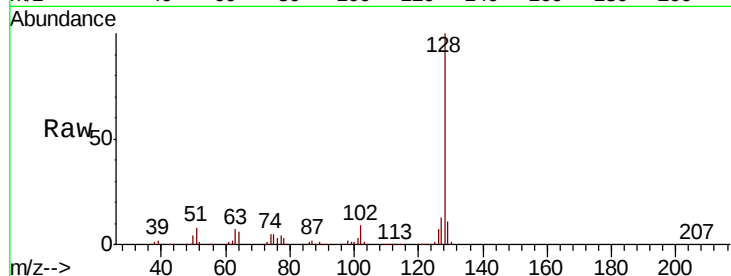
Tot Ion:128 Resp: 1148394

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

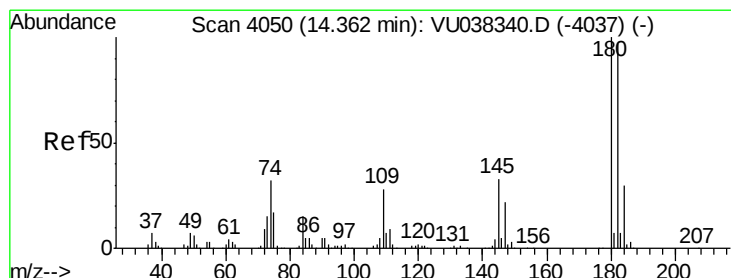
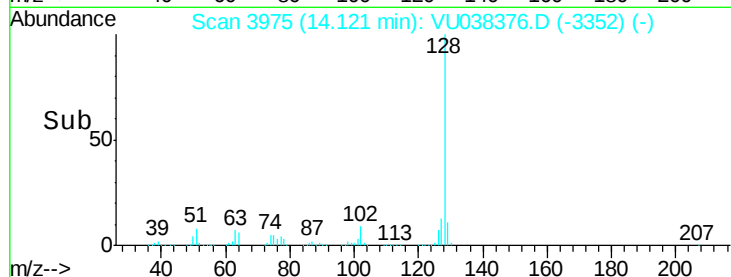
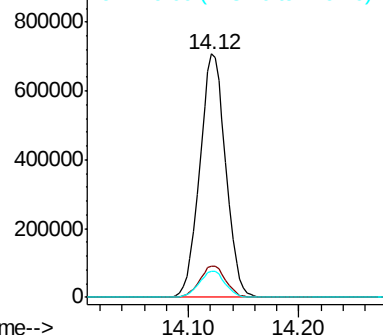
129 10.8 8.6 12.8



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: 51.737 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. 0.01 min

Lab File: VU038376.D

Acq: 29 May 2020 13:30

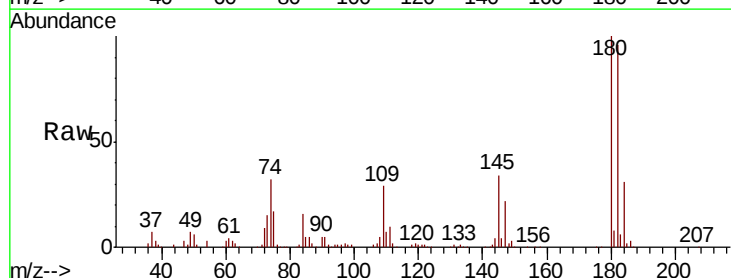
Tgt Ion:180 Resp: 308482

Ion Ratio Lower Upper

180 100

182 95.1 75.5 113.3

145 34.0 26.6 40.0



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

