

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038365.D
 Acq On : 28 May 2020 22:31
 Operator : JC/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

Quant Time: May 29 04:35:45 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	589644	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	581264	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	289571	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	174533	47.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.30%
7) Chloroethane-d5	1.93	69	141066	49.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.66%
11) 1,1-Dichloroethene-d2	2.59	63	365445	48.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.60%
21) 2-Butanone-d5	4.66	46	373919	106.32	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.32%
24) Chloroform-d	5.10	84	369755	50.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.74%
26) 1,2-Dichloroethane-d4	5.74	65	243636	48.91	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.82%
32) Benzene-d6	5.76	84	733541	48.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.14%
36) 1,2-Dichloropropane-d6	6.72	67	227769	48.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.30%
41) Toluene-d8	7.92	98	654389	49.01	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.02%
43) trans-1,3-Dichloropropene-	8.20	79	111557	47.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.72%
47) 2-Hexanone-d5	8.65	63	264609	107.35	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.35%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	347860	50.20	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.40%
64) 1,2-Dichlorobenzene-d4	12.20	152	263386	49.07	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.14%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	224746	50.638	ug/L 100
3) Chloromethane	1.53	50	216642	52.962	ug/L 99
5) Vinyl chloride	1.62	62	233389	51.647	ug/L 100
6) Bromomethane	1.87	94	110278	59.651	ug/L 97
8) Chloroethane	1.95	64	143719	52.049	ug/L 98
9) Trichlorofluoromethane	2.16	101	318531	52.596	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	178917	49.410	ug/L 99
12) 1,1-Dichloroethene	2.60	96	183930	51.449	ug/L 90
13) Acetone	2.66	43	253027	86.588	ug/L 97
14) Carbon disulfide	2.82	76	582612	49.970	ug/L 100
15) Methyl Acetate	2.98	43	281489	53.738	ug/L 99
16) Methylene chloride	3.08	84	213042	51.862	ug/L 97
17) trans-1,2-Dichloroethene	3.39	96	201152	52.382	ug/L 98
18) Methyl tert-butyl Ether	3.40	73	662848	53.829	ug/L 100
19) 1,1-Dichloroethane	3.91	63	382173	52.553	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	223587	53.151	ug/L 98
22) 2-Butanone	4.74	43	424218	103.544	ug/L 99

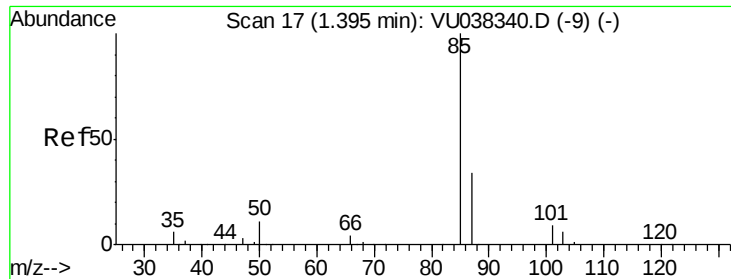
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
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 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:31:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	109754	52.701	ug/L	99
25) Chloroform	5.13	83	387072	51.758	ug/L	100
27) 1,2-Dichloroethane	5.83	62	319290	52.729	ug/L	99
29) Cyclohexane	5.42	56	333653	50.064	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	335111	53.018	ug/L	99
31) Carbon tetrachloride	5.56	117	274185	52.049	ug/L	100
33) Benzene	5.81	78	863045	52.865	ug/L	100
34) Trichloroethene	6.57	95	215289	51.543	ug/L	99
35) Methylcyclohexane	6.79	83	311385	47.482	ug/L	100
37) 1,2-Dichloropropane	6.82	63	221453	52.305	ug/L	100
38) Bromodichloromethane	7.13	83	290308	53.506	ug/L	97
39) cis-1,3-Dichloropropene	7.63	75	343473	50.981	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	736780	109.421	ug/L	100
42) Toluene	7.99	91	902882	52.679	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	329850	52.302	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	215933	53.744	ug/L	98
46) Tetrachloroethene	8.57	164	150262	49.208	ug/L	98
48) 2-Hexanone	8.71	43	618871	108.857	ug/L	100
49) Dibromochloromethane	8.83	129	216164	53.136	ug/L	97
50) 1,2-Dibromoethane	8.94	107	230372	53.344	ug/L	100
51) Chlorobenzene	9.47	112	569585	51.709	ug/L	100
52) Ethylbenzene	9.59	91	1001104	52.130	ug/L	99
53) m,p-Xylene	9.71	106	387459	52.759	ug/L	100
54) o-xylene	10.11	106	376331	52.706	ug/L	99
55) Styrene	10.13	104	656217	53.474	ug/L	99
56) Isopropylbenzene	10.50	105	962710	51.595	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	366387	53.287	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	316143	53.397	ug/L	99
61) Bromoform	10.31	173	154292	53.037	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	436118	51.518	ug/L	98
63) 1,4-Dichlorobenzene	11.85	146	437998	50.903	ug/L	100
65) 1,2-Dichlorobenzene	12.22	146	436163	51.957	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.01	75	93320	54.301	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	307888	51.105	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	299756	51.877	ug/L	99
69) Naphthalene	14.11	128	1169587	56.532	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	309010	53.533	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 50.638 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

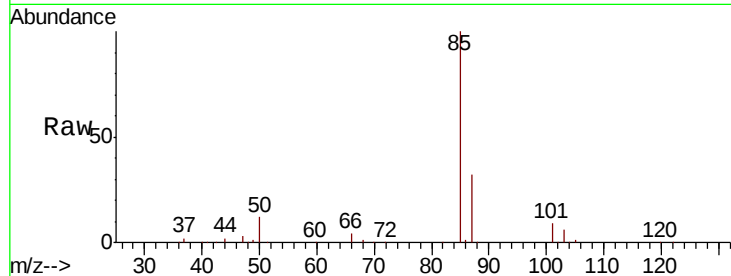
VSTD05038

Tot Ion: 85 Resp: 224746

Ion Ratio Lower Upper

85 100

87 31.7 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038340.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038340.D (-9) (-)

1.39

250000

200000

150000

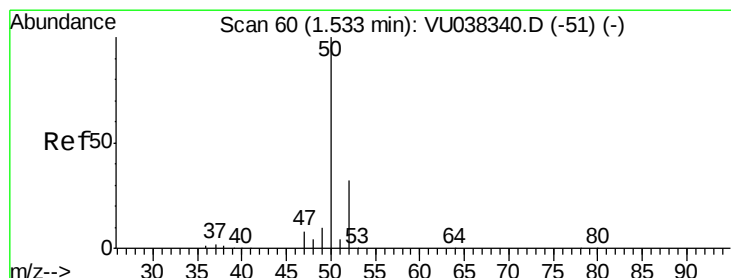
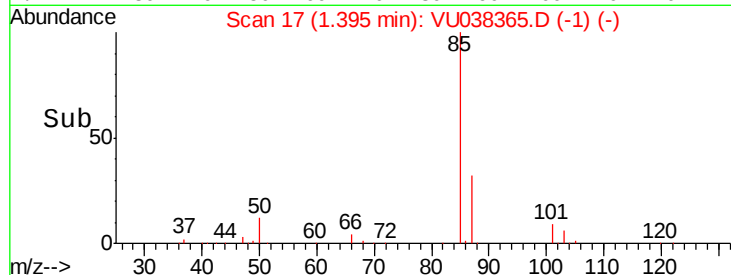
100000

50000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 52.962 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU038365.D

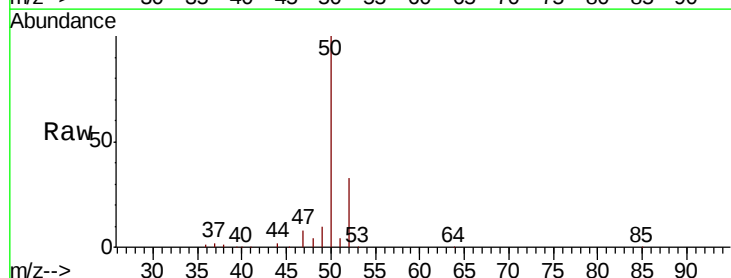
Acq: 28 May 2020 22:31

Tgt Ion: 50 Resp: 216642

Ion Ratio Lower Upper

50 100

52 32.6 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU038340.D (-51) (-)

Ion 52.00 (51.70 to 52.70): VU038340.D (-51) (-)

1.53

200000

150000

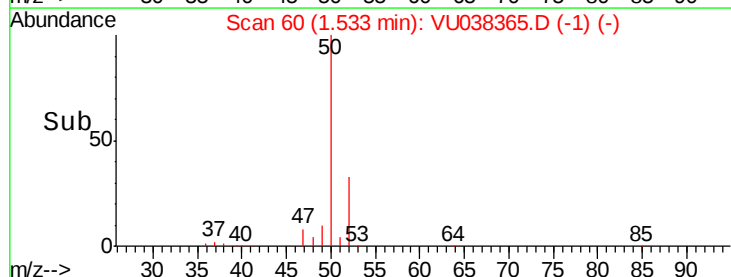
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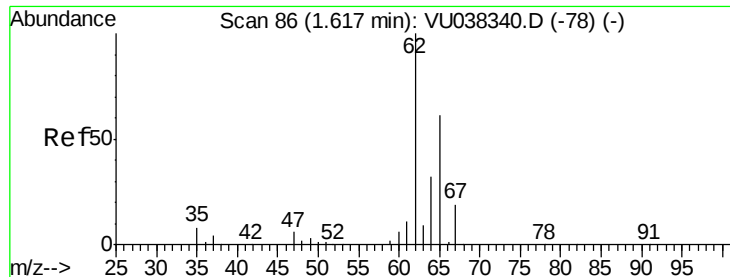
50000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 51.647 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

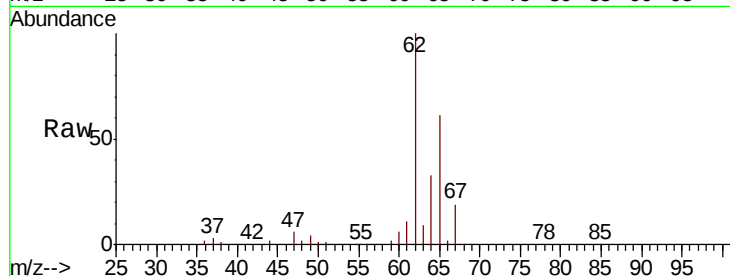
VSTD05038

Tot Ion: 62 Resp: 233389

Ion Ratio Lower Upper

62 100

64 33.0 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU038340.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU038365.D (-1) (-)

1.62

200000

150000

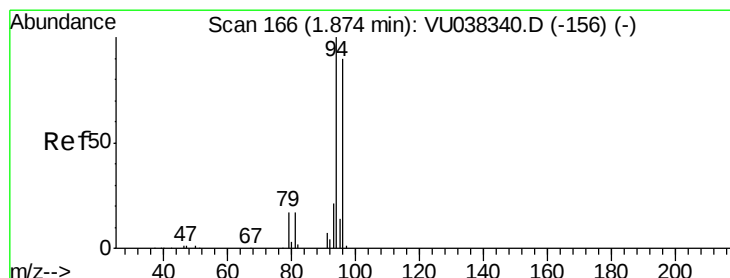
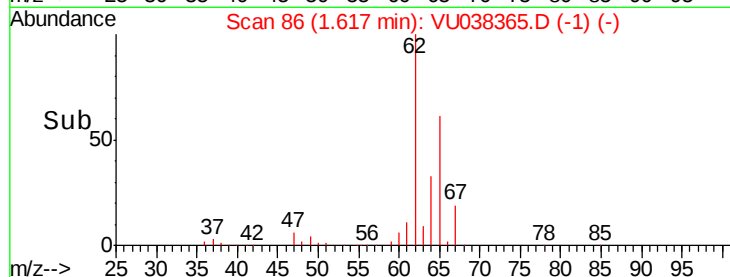
100000

50000

0

1.60 1.65

Time-->



#6

Bromomethane

Concen: 59.651 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU038365.D

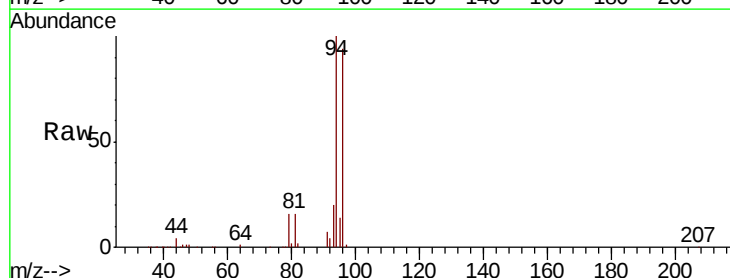
Acq: 28 May 2020 22:31

Tgt Ion: 94 Resp: 110278

Ion Ratio Lower Upper

94 100

96 94.4 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU038340.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU038365.D (-73) (-)

100000

80000

60000

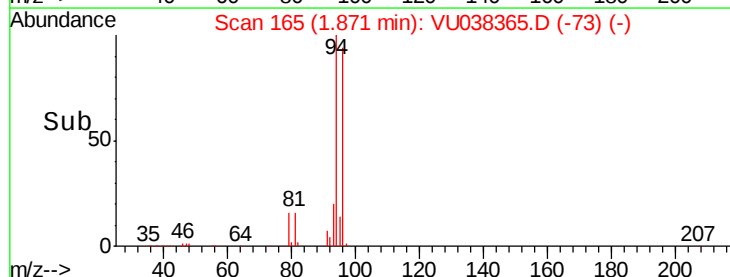
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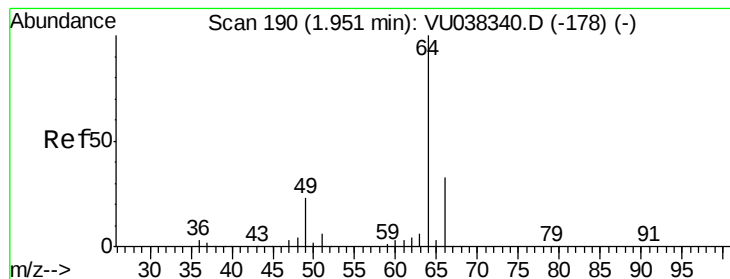
20000

0

1.80 1.85 1.90 1.95

Time-->





#8

Chloroethane

Concen: 52.049 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

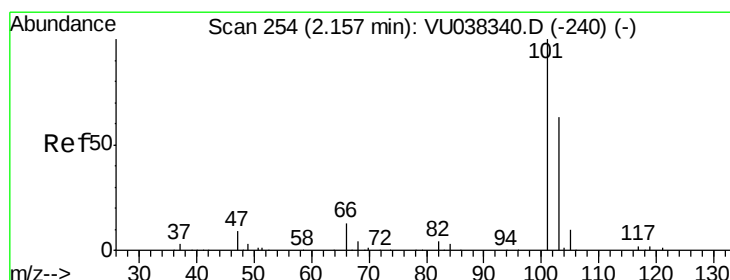
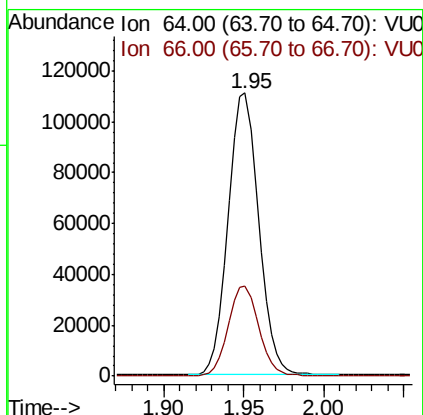
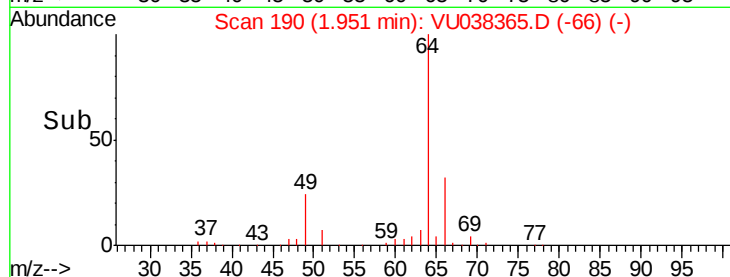
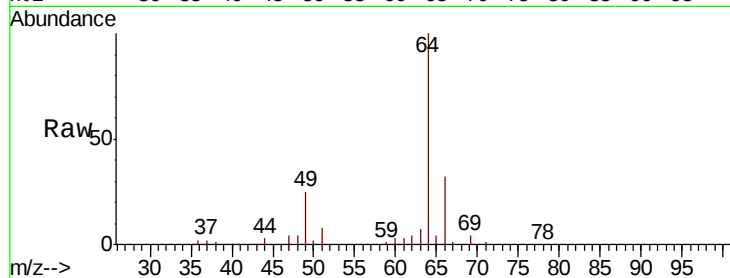
VSTD05038

Tot Ion: 64 Resp: 143719

Ion Ratio Lower Upper

64 100

66 31.7 23.0 42.8



#9

Trichlorofluoromethane

Concen: 52.596 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU038365.D

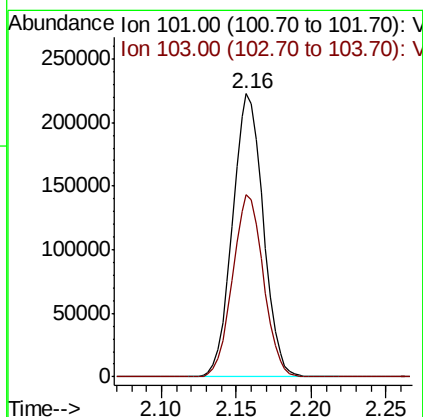
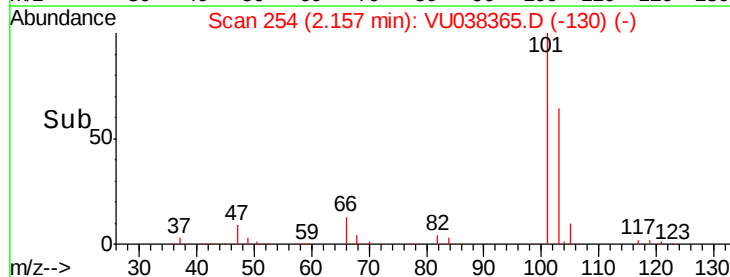
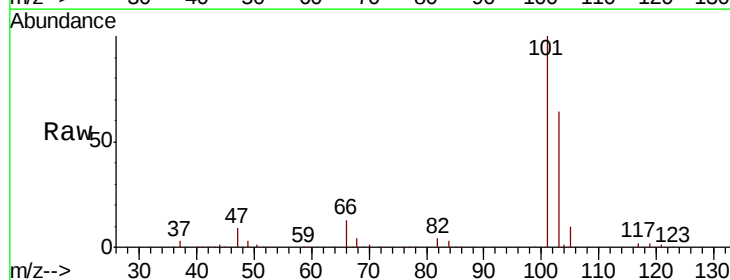
Acq: 28 May 2020 22:31

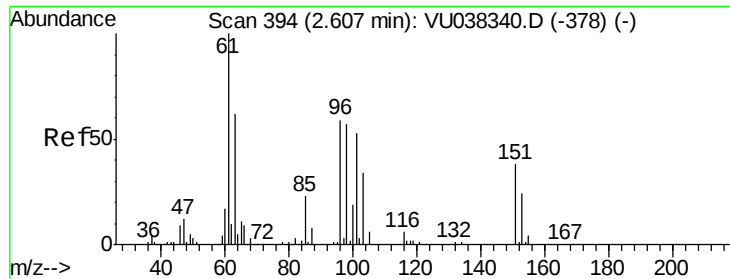
Tgt Ion:101 Resp: 318531

Ion Ratio Lower Upper

101 100

103 64.7 51.4 77.0





#10

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

Concen: 49.410 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

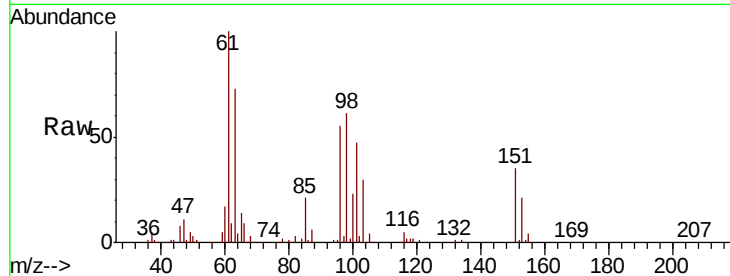
Tot Ion:101 Resp: 178917

Ion Ratio Lower Upper

101 100

85 44.3 35.5 53.3

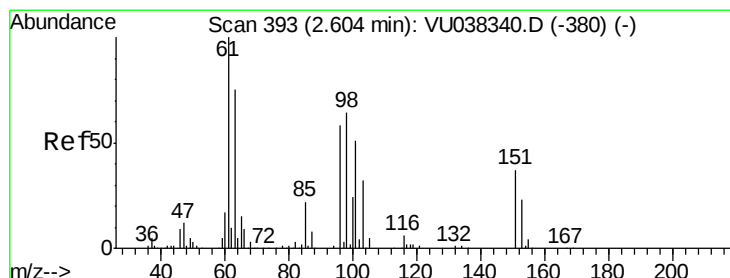
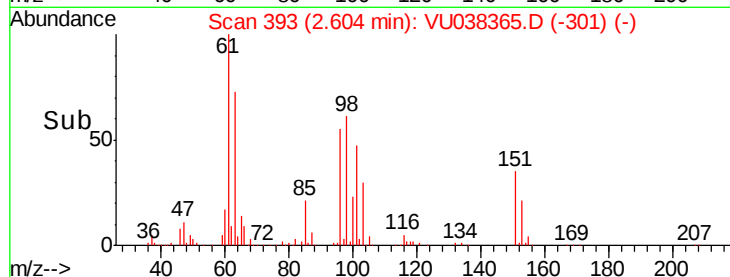
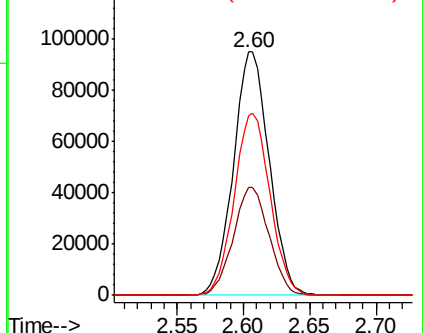
151 74.6 58.4 87.6



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: 51.449 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

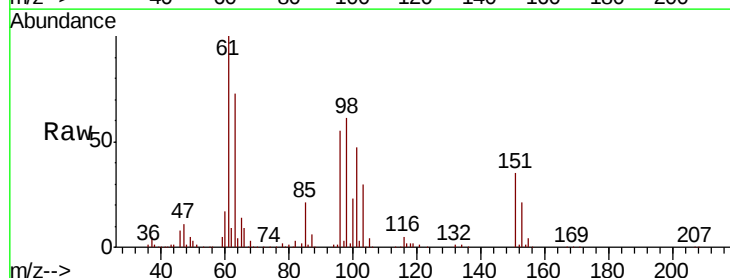
Tgt Ion: 96 Resp: 183930

Ion Ratio Lower Upper

96 100

61 180.3 123.5 229.3

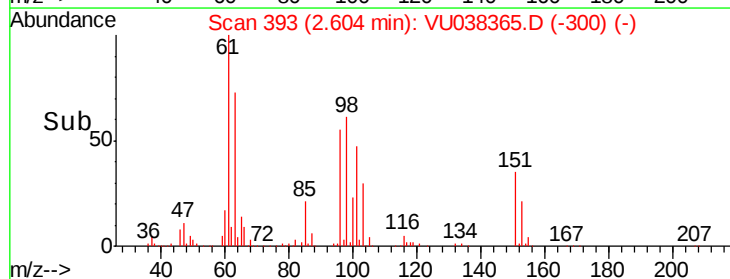
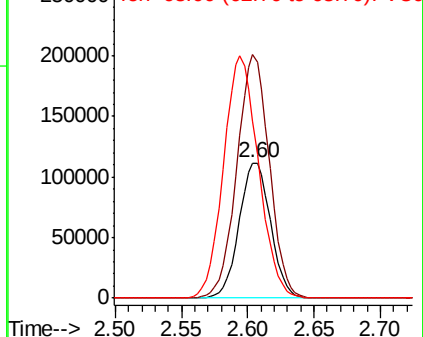
63 131.2 76.6 142.2

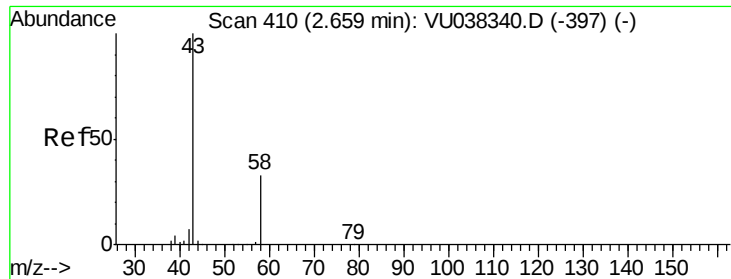


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 86.588 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

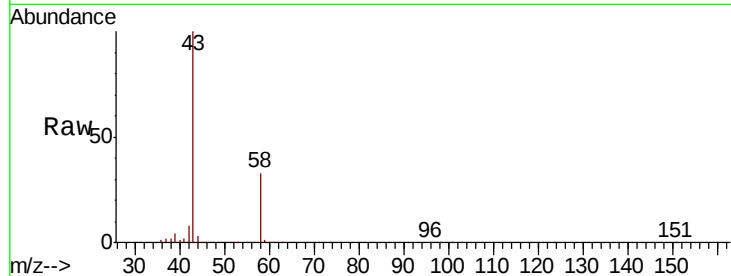
VSTD05038

Tot Ion: 43 Resp: 253027

Ion Ratio Lower Upper

43 100

58 33.1 0.0 63.4



Abundance Ion 43.00 (42.70 to 43.70): VU038340.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU038340.D (-397) (-)

2.66

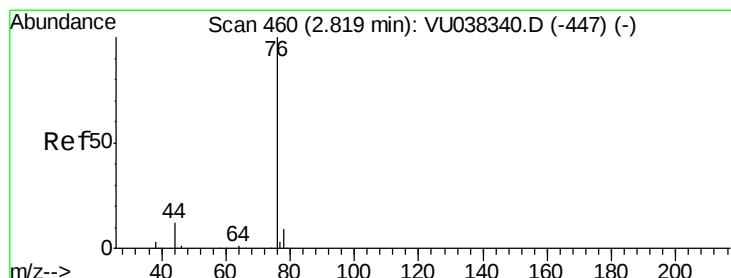
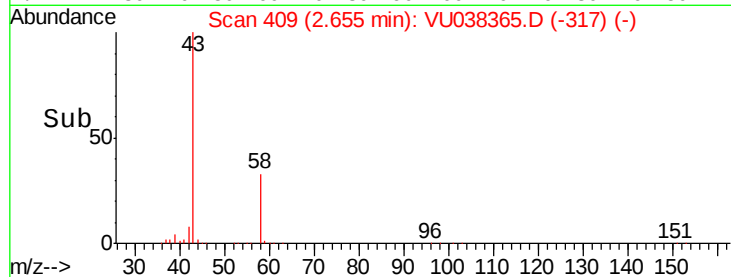
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 49.970 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU038365.D

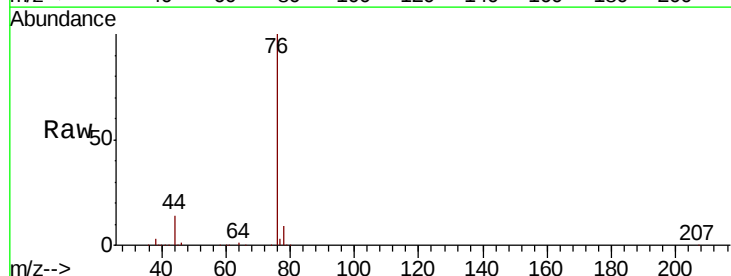
Acq: 28 May 2020 22:31

Tgt Ion: 76 Resp: 582612

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU038340.D (-447) (-)

Ion 78.00 (77.70 to 78.70): VU038340.D (-447) (-)

2.82

400000

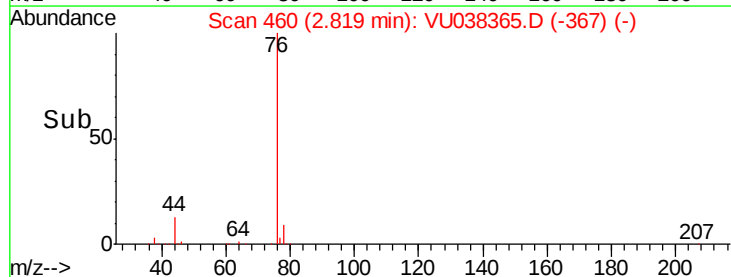
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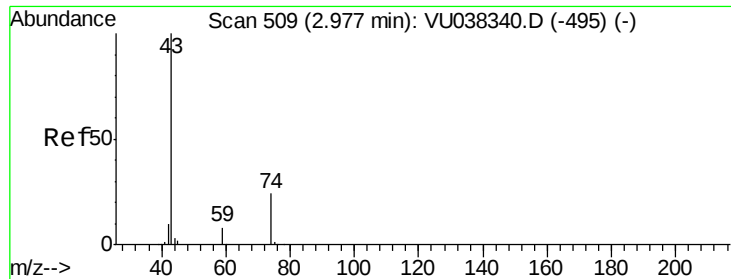
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Time-->

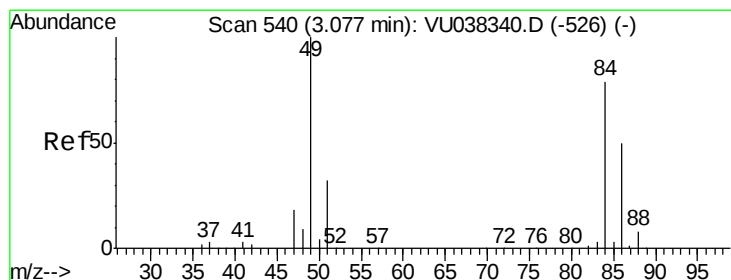
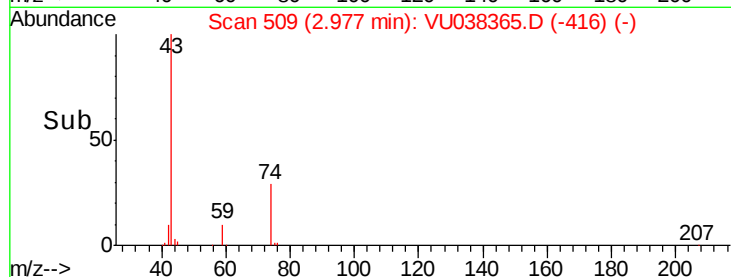
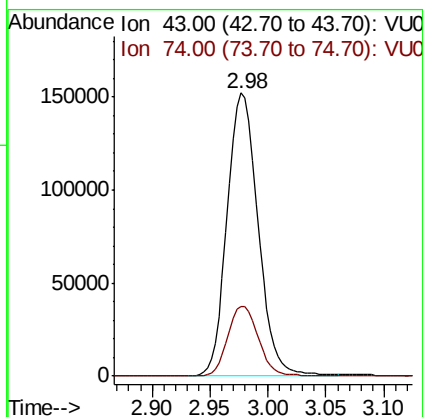
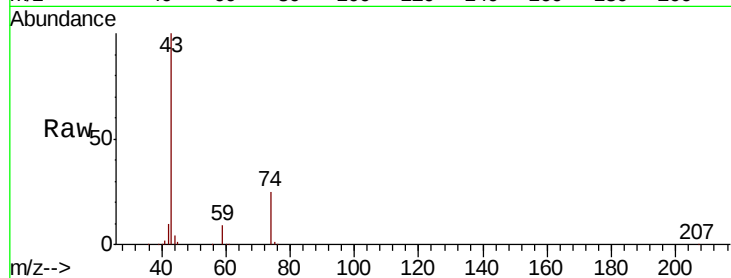




#15
Methvl Acetate
Concen: 53.738 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

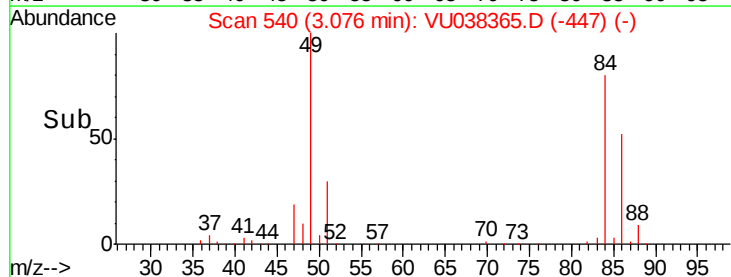
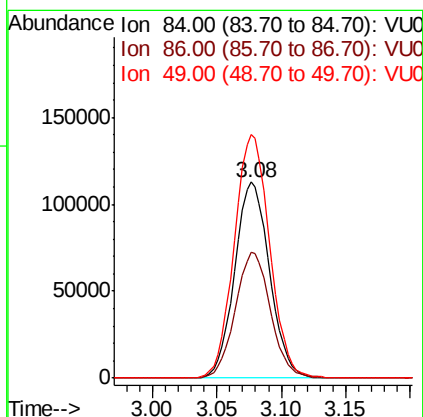
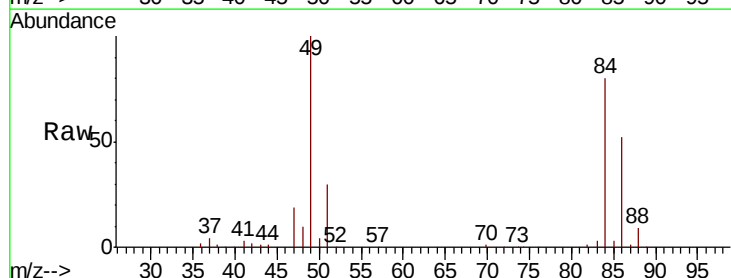
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

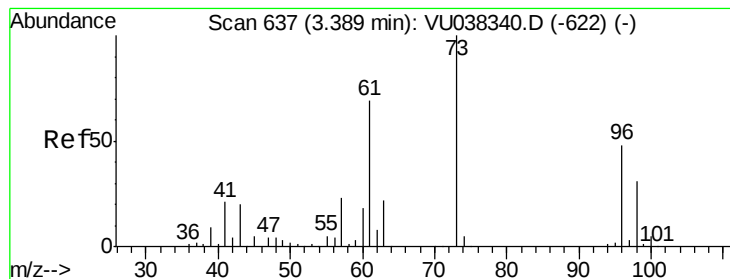
Tot Ion: 43 Resp: 281489
Ion Ratio Lower Upper
43 100
74 24.4 19.1 28.7



#16
Methylene chloride
Concen: 51.862 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Tgt Ion: 84 Resp: 213042
Ion Ratio Lower Upper
84 100
86 64.4 46.1 85.7
49 124.4 90.0 167.2





#17

trans-1,2-Dichloroethene

Concen: 52.382 ug/L

RT: 3.39 min Scan# 637

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

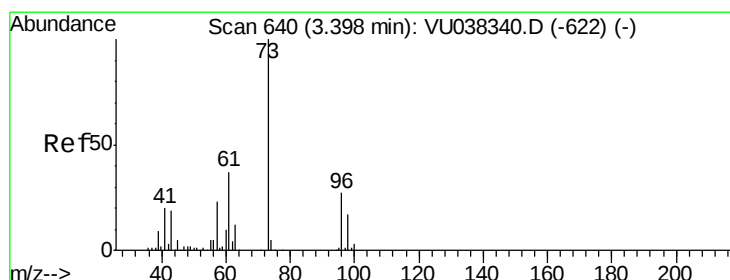
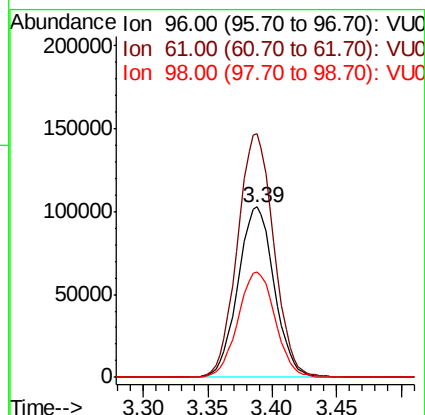
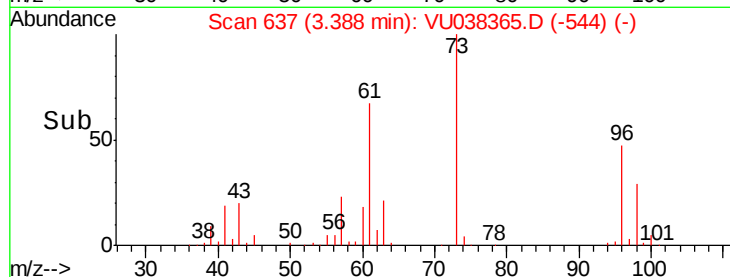
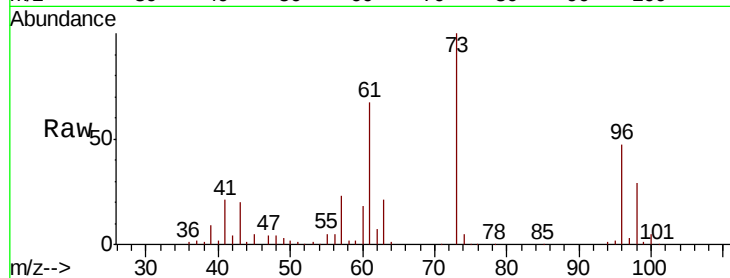
Tot Ion: 96 Resp: 201152

Ion Ratio Lower Upper

96 100

61 142.7 100.4 186.4

98 62.0 46.1 85.5



#18

Methyl tert-butyl Ether

Concen: 53.829 ug/L

RT: 3.40 min Scan# 640

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

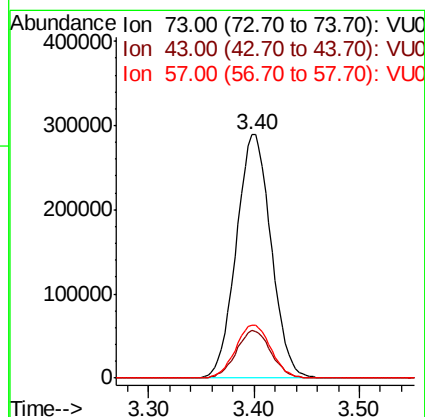
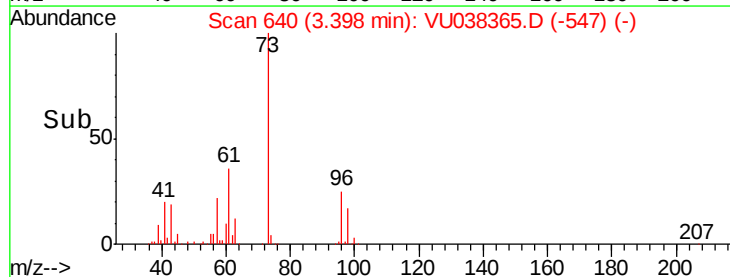
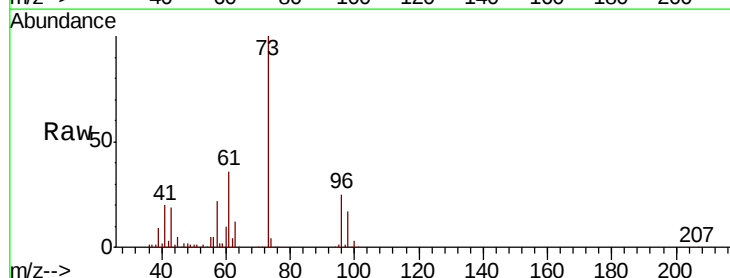
Tgt Ion: 73 Resp: 662848

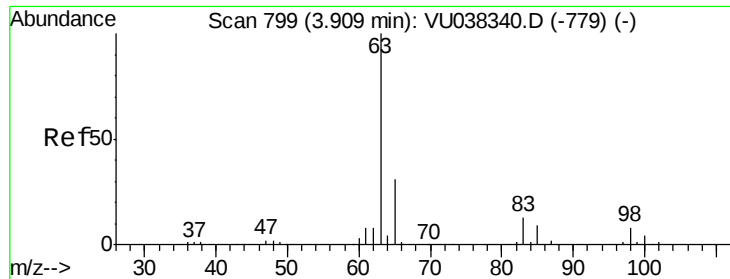
Ion Ratio Lower Upper

73 100

43 19.6 15.7 23.5

57 22.2 17.7 26.5

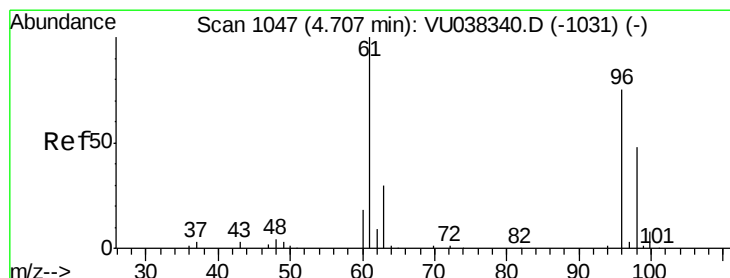
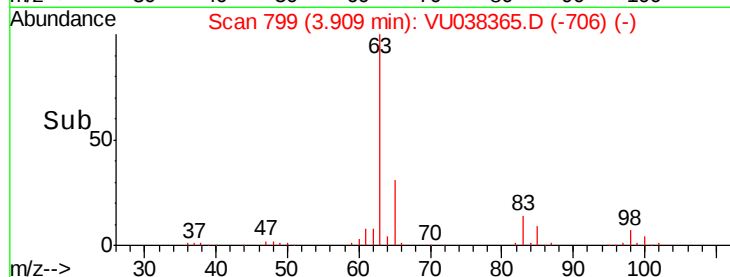
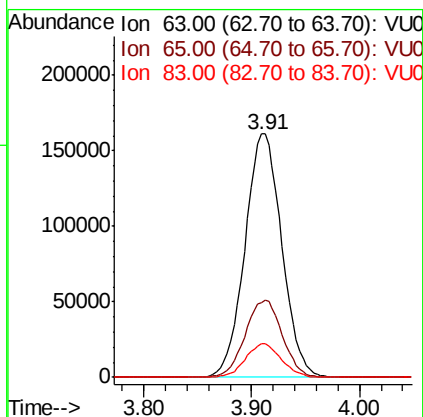
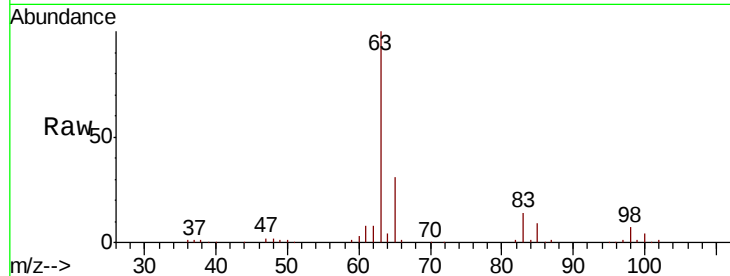




#19
 1,1-Dichloroethane
 Concen: 52.553 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

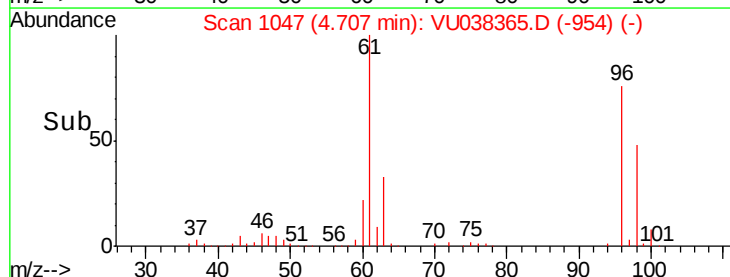
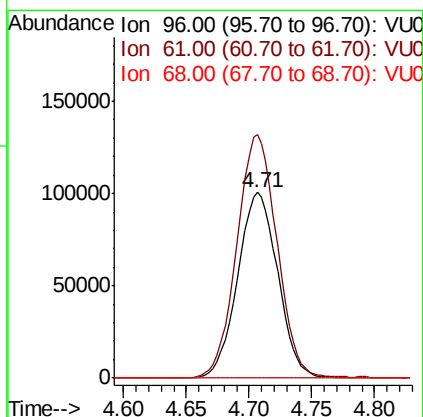
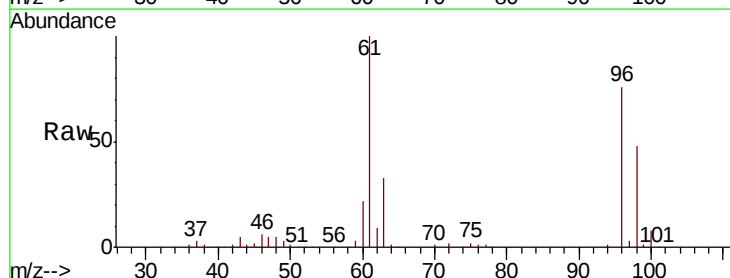
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

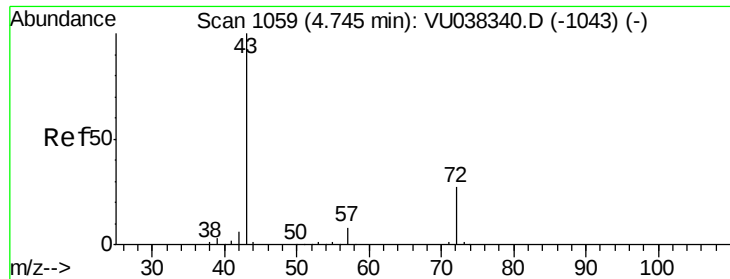
Tot Ion: 63 Resp: 382173
 Ion Ratio Lower Upper
 63 100
 65 30.9 22.2 41.2
 83 13.7 9.4 17.4



#20
 cis-1,2-Dichloroethene
 Concen: 53.151 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion: 96 Resp: 223587
 Ion Ratio Lower Upper
 96 100
 61 131.2 93.4 173.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 103.544 ug/L

RT: 4.74 min Scan# 1058

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

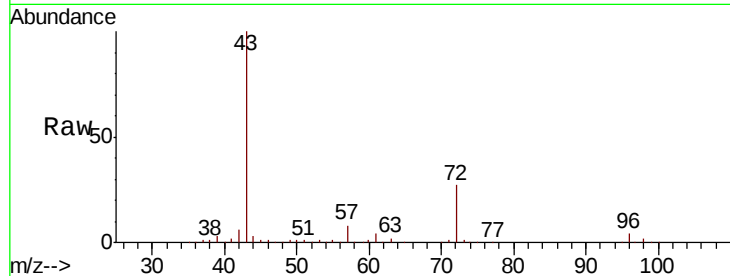
VSTD05038

Tot Ion: 43 Resp: 424218

Ion Ratio Lower Upper

43 100

72 28.0 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VU038340.D (-1043) (-)

Ion 72.00 (71.70 to 72.70): VU038340.D (-1043) (-)

4.74

200000

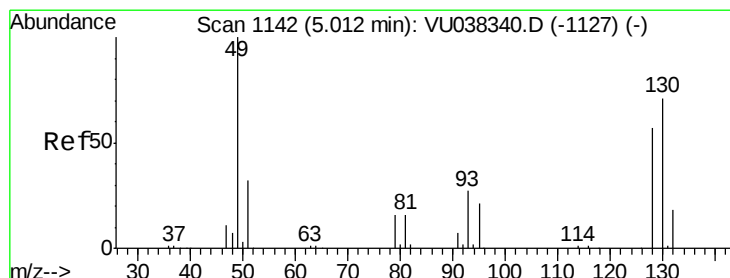
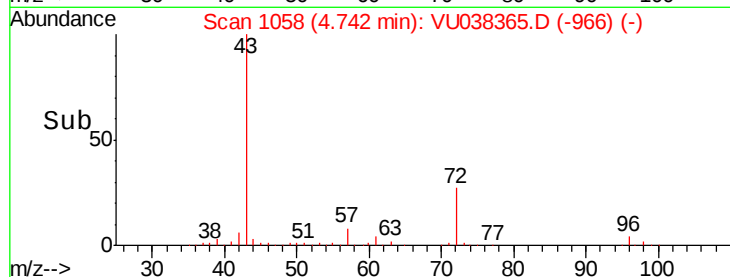
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 52.701 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Tgt Ion: 128 Resp: 109754

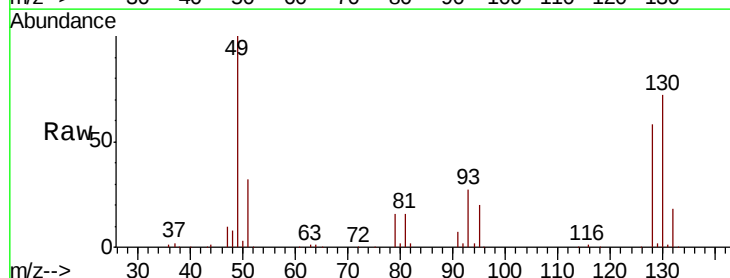
Ion Ratio Lower Upper

128 100

49 171.8 120.1 223.1

130 124.5 88.1 163.5

51 54.5 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VU038340.D (-1127) (-)

Ion 49.00 (48.70 to 49.70): VU038340.D (-1127) (-)

Ion 130.00 (129.70 to 130.70): VU038340.D (-1127) (-)

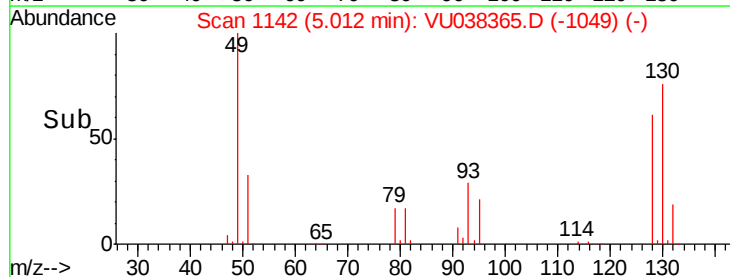
Ion 51.00 (50.70 to 51.70): VU038340.D (-1127) (-)

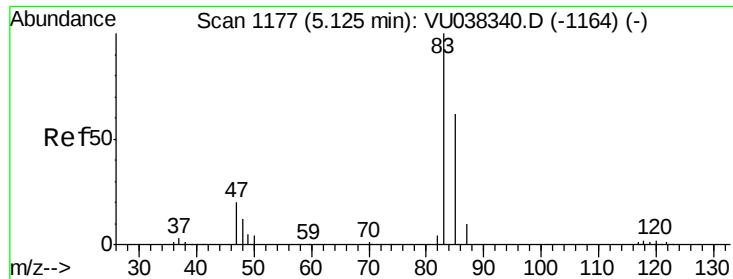
100000

50000

0

Time-->

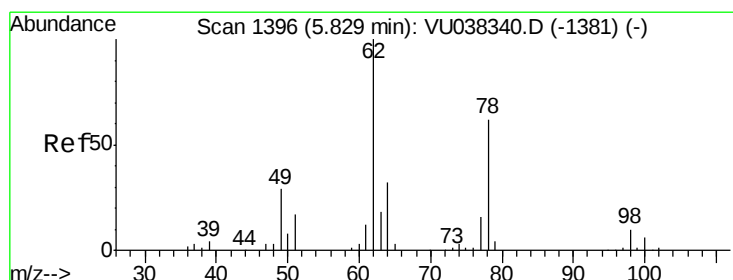
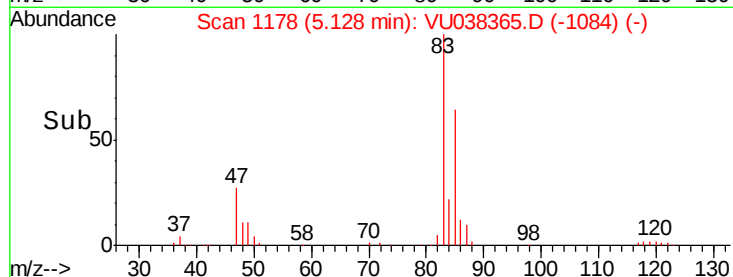
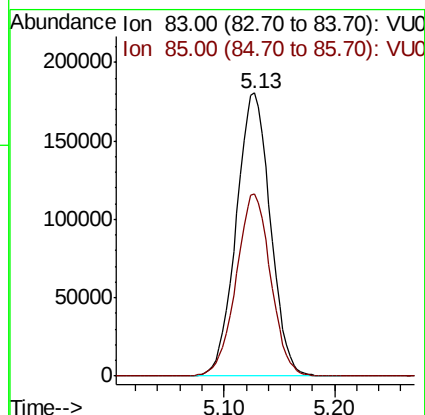
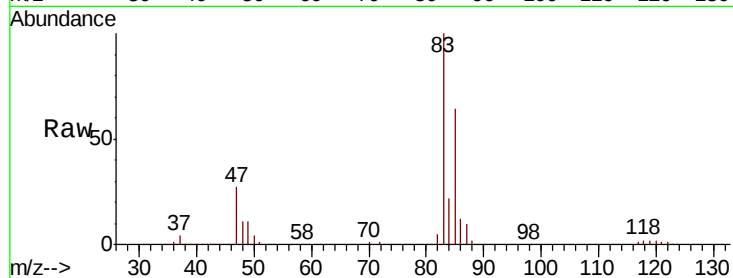




#25
Chloroform
Concen: 51.758 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

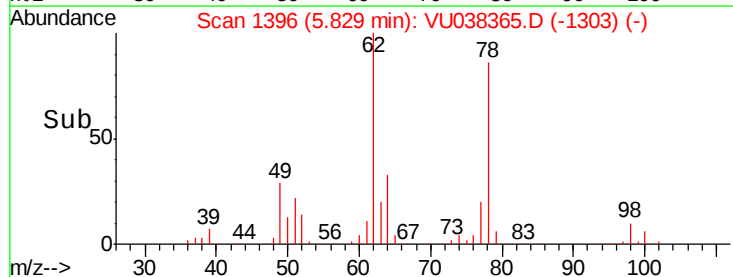
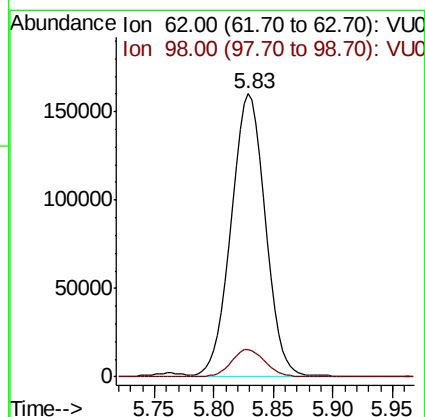
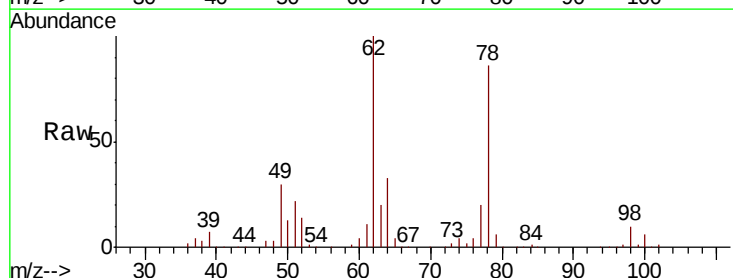
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

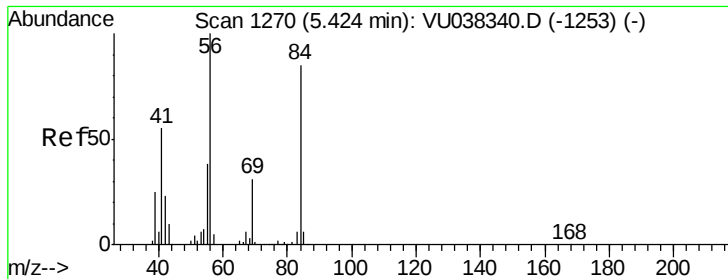
Tot Ion: 83 Resp: 387072
Ion Ratio Lower Upper
83 100
85 64.5 44.9 83.5



#27
1,2-Dichloroethane
Concen: 52.729 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Tgt Ion: 62 Resp: 319290
Ion Ratio Lower Upper
62 100
98 9.7 7.5 11.3

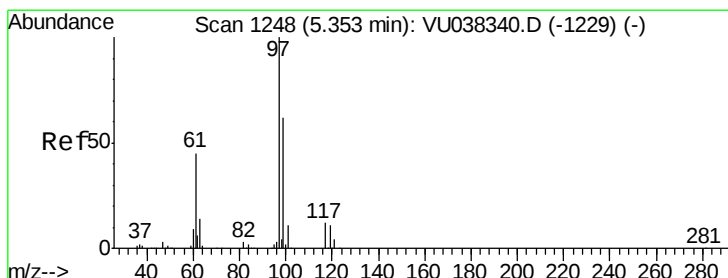
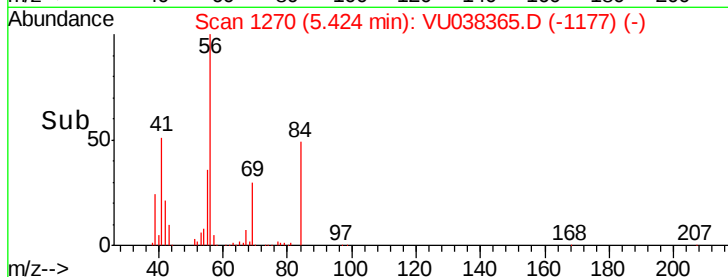
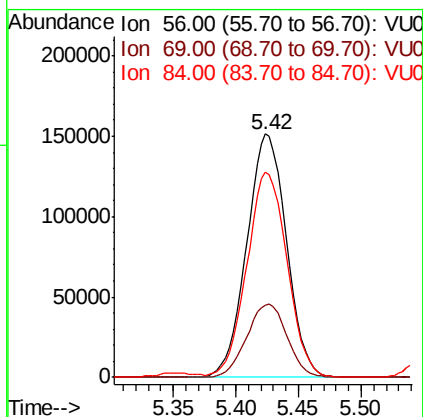
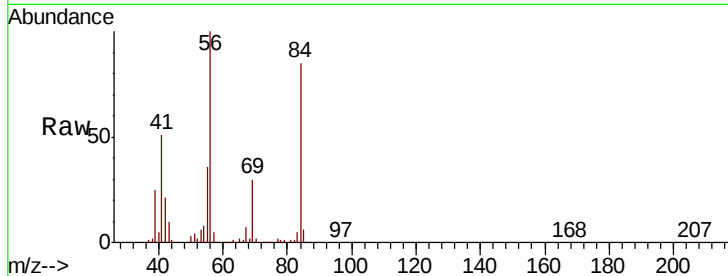




#29
Cyclohexane
Concen: 50.064 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

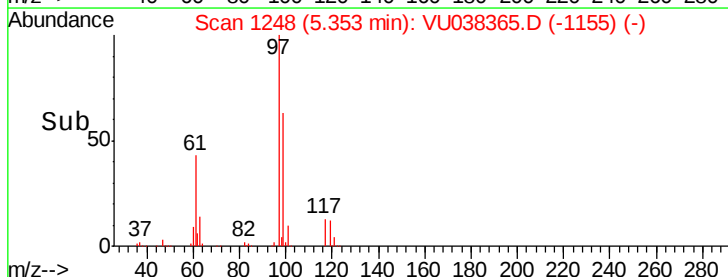
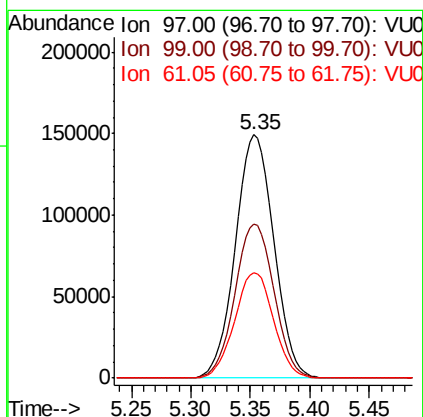
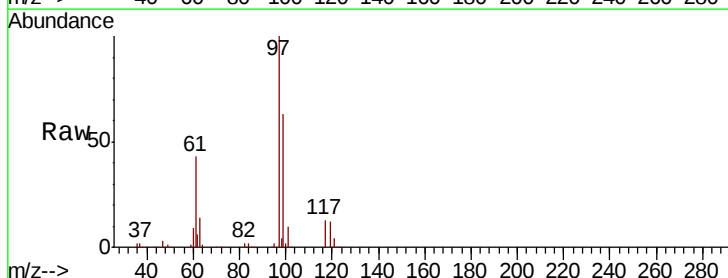
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

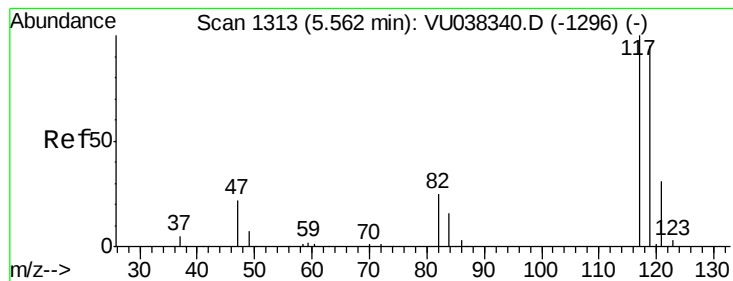
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.7	37.1
84	86.0	68.2	102.4



#30
1,1,1-Trichloroethane
Concen: 53.018 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.2	76.8
61	43.8	35.9	53.9





#31

Carbon tetrachloride

Concen: 52.049 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

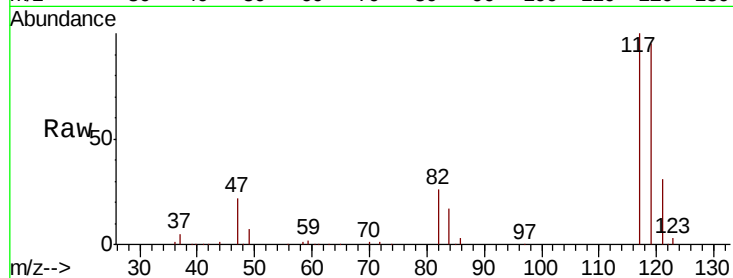
VSTD05038

Tot Ion:117 Resp: 274185

Ion Ratio Lower Upper

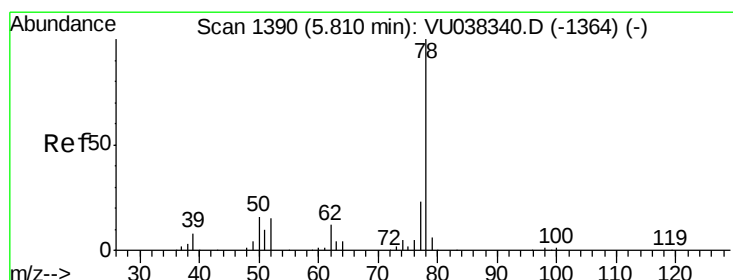
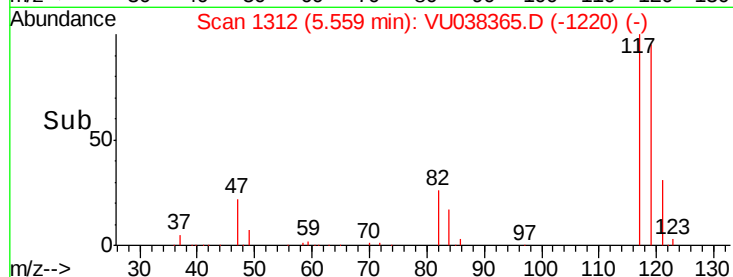
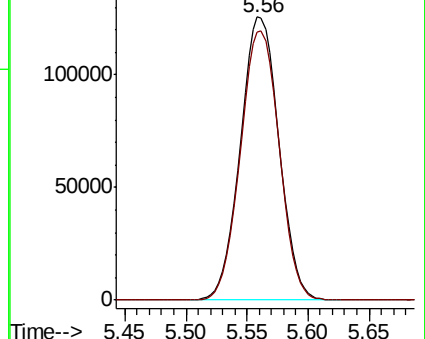
117 100

119 95.5 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 52.865 ug/L

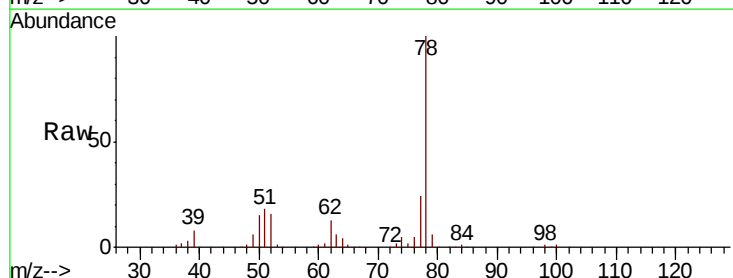
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

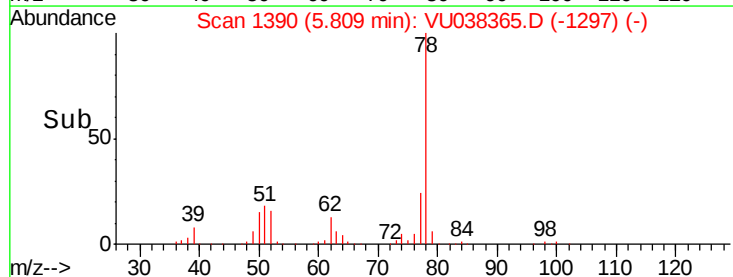
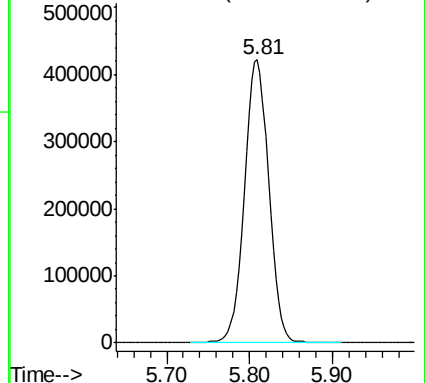
Lab File: VU038365.D

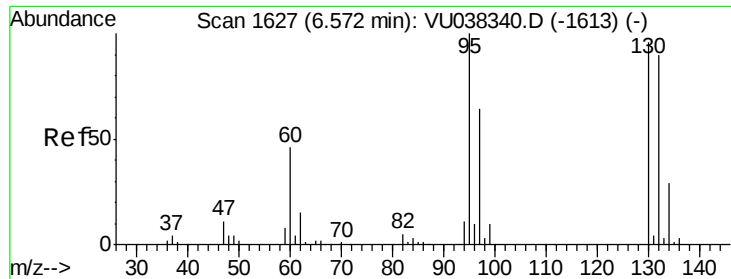
Acq: 28 May 2020 22:31

Tgt Ion: 78 Resp: 863045



Abundance Ion 78.00 (77.70 to 78.70): VU0

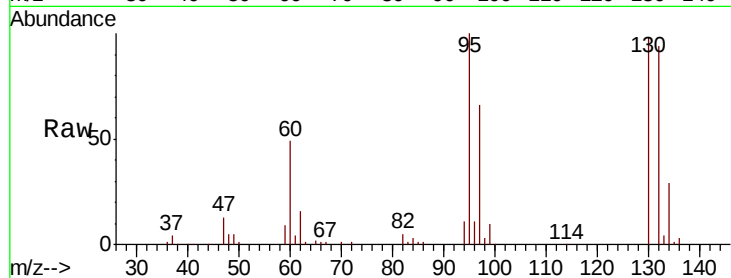




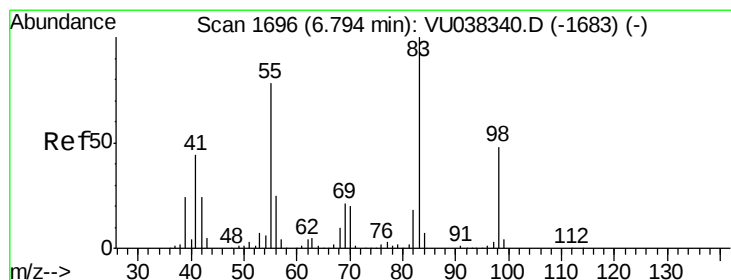
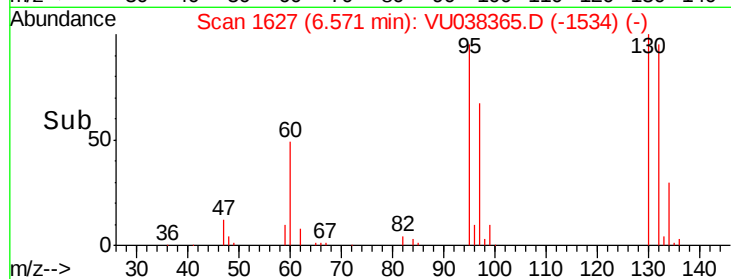
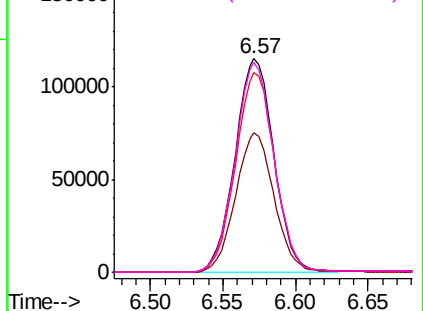
#34
 Trichloroethene
 Concen: 51.543 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

Tot Ion: 95 Resp: 215289
 Ion Ratio Lower Upper
 95 100
 97 65.6 44.3 82.3
 132 93.7 64.7 120.1
 130 98.2 68.5 127.1

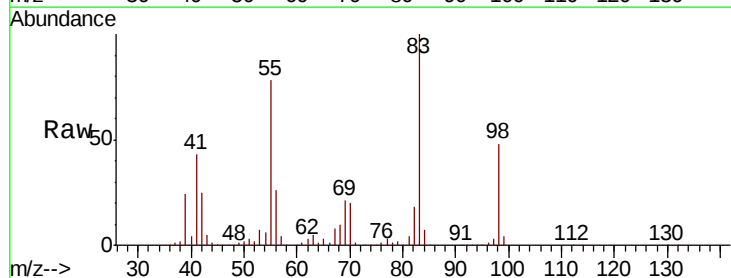


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

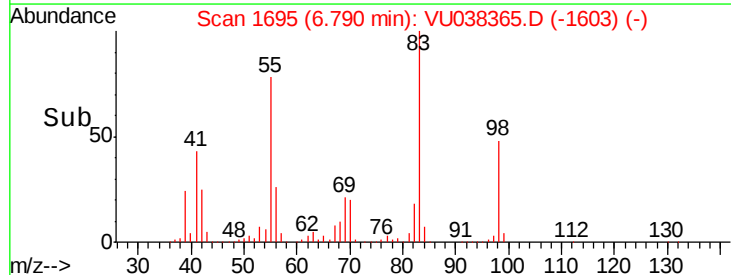
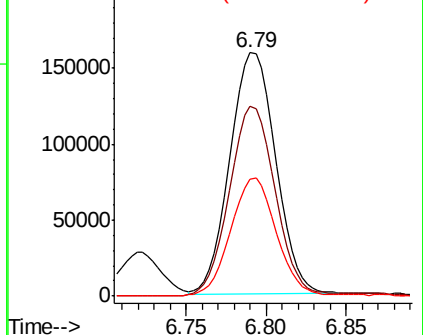


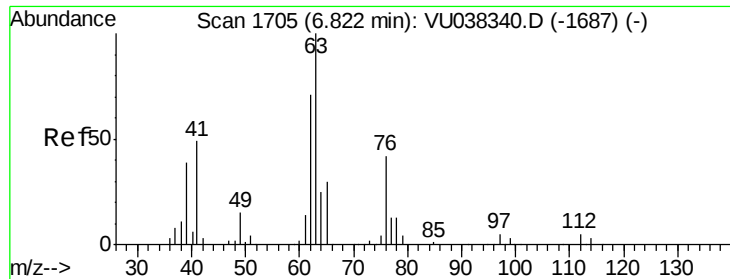
#35
 Methylcyclohexane
 Concen: 47.482 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion: 83 Resp: 311385
 Ion Ratio Lower Upper
 83 100
 55 78.7 63.0 94.4
 98 49.0 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

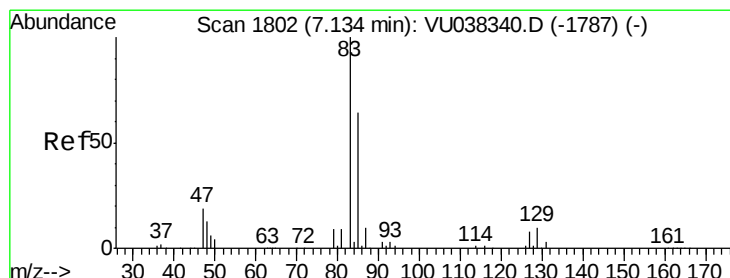
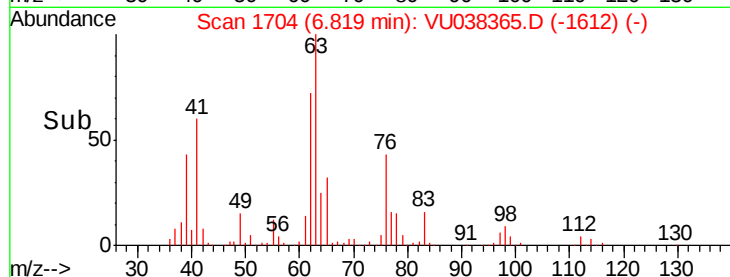
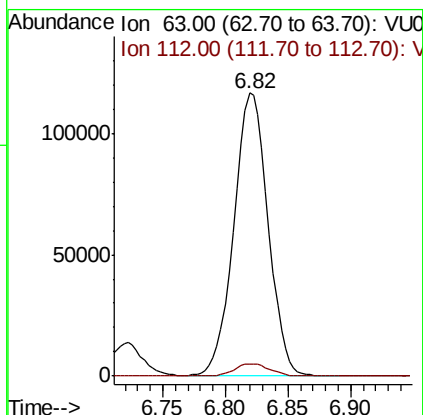
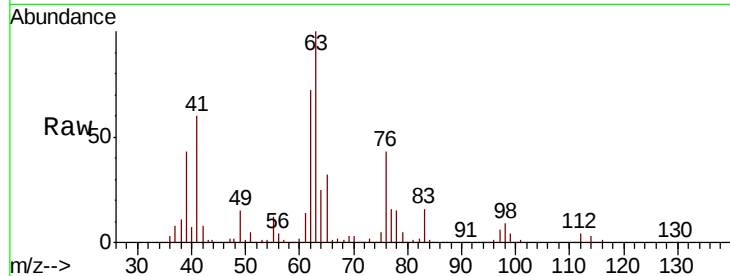




#37
 1,2-Dichloropropane
 Concen: 52.305 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

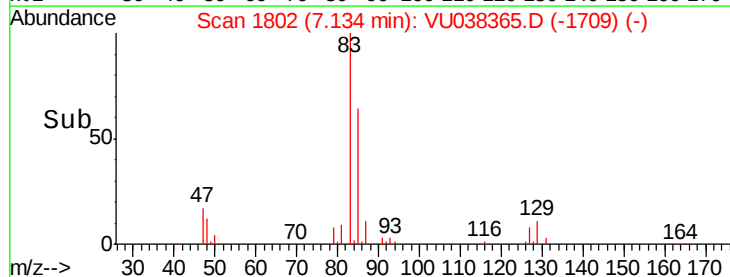
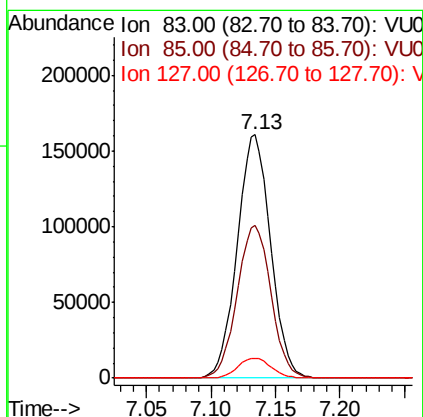
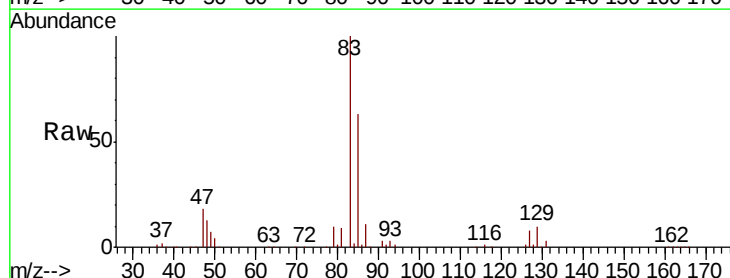
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

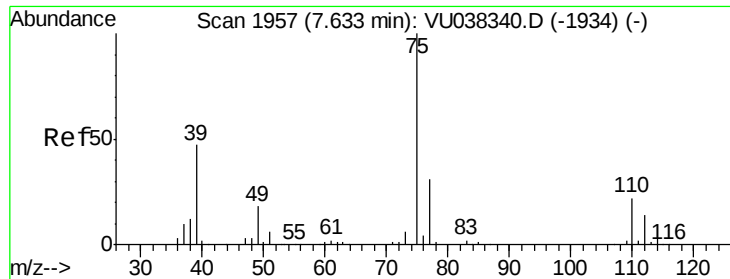
Tot Ion: 63 Resp: 221453
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 53.506 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion: 83 Resp: 290308
 Ion Ratio Lower Upper
 83 100
 85 62.9 45.5 84.5
 127 8.2 7.0 10.4

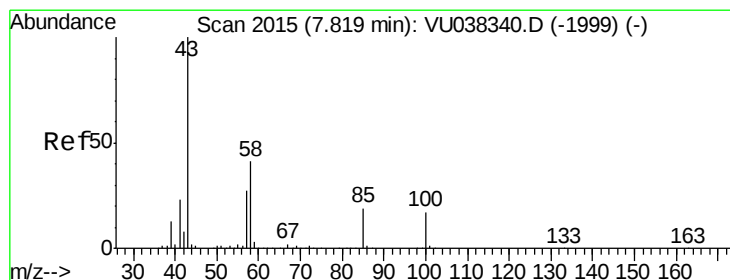
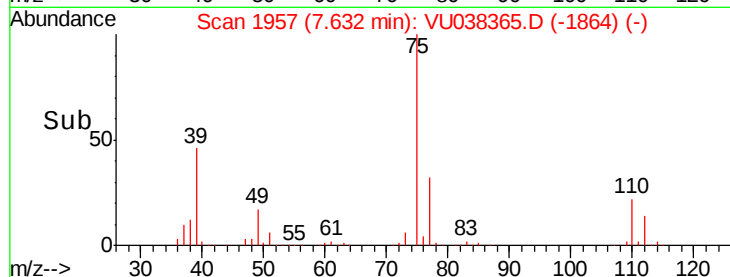
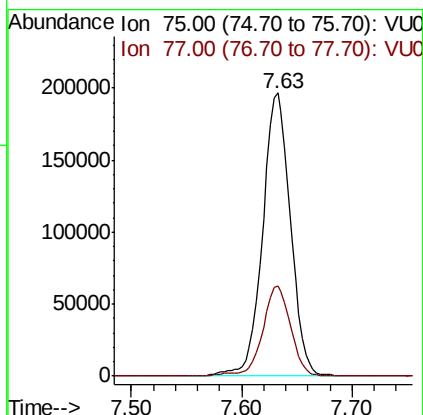
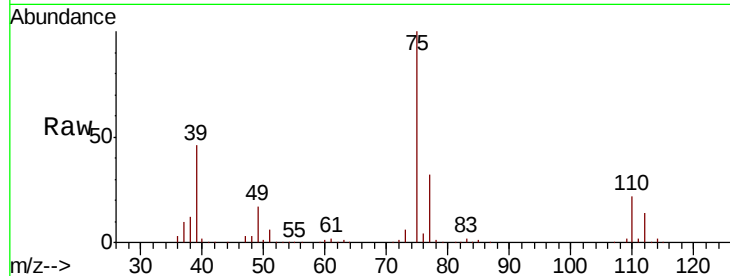




#39
 cis-1,3-Dichloropropene
 Concen: 50.981 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

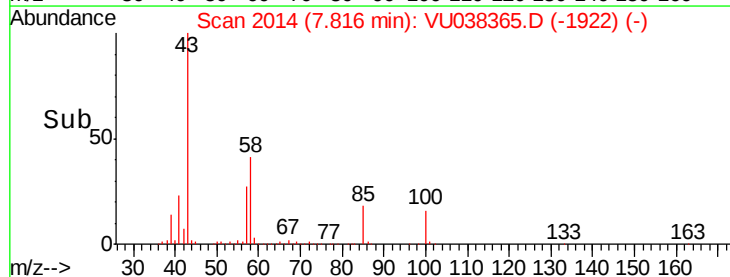
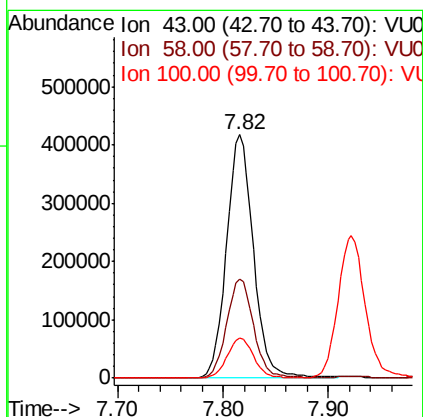
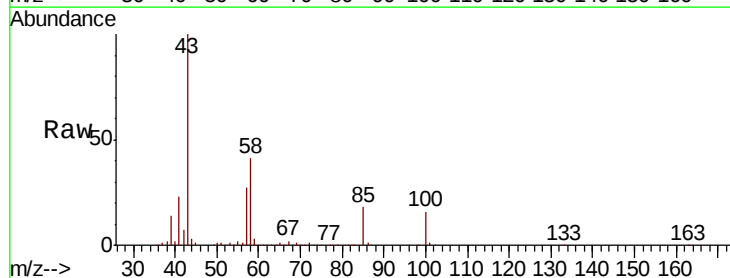
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

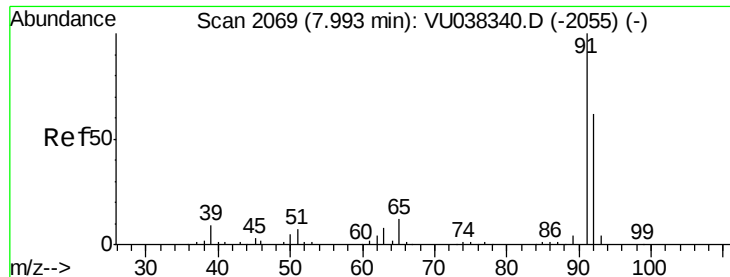
Tot Ion: 75 Resp: 343473
 Ion Ratio Lower Upper
 75 100
 77 32.0 21.6 40.0



#40
 4-Methyl-2-pentanone
 Concen: 109.421 ug/L
 RT: 7.82 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion: 43 Resp: 736780
 Ion Ratio Lower Upper
 43 100
 58 40.7 32.6 48.8
 100 16.3 12.9 19.3





#42

Toluene

Concen: 52.679 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

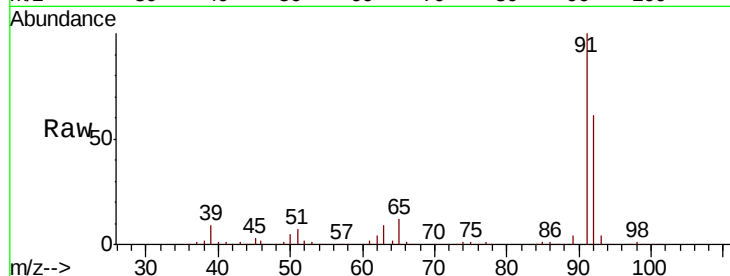
VSTD05038

Tot Ion: 91 Resp: 902882

Ion Ratio Lower Upper

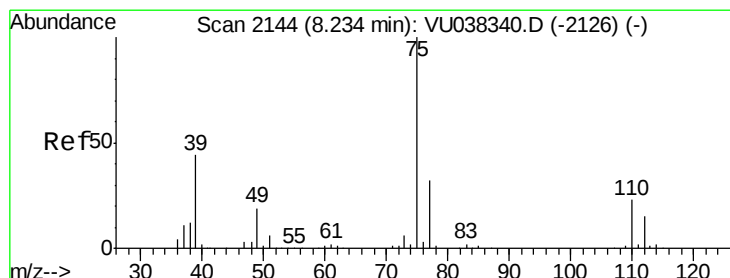
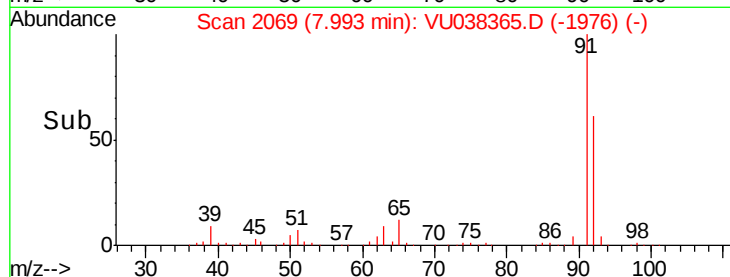
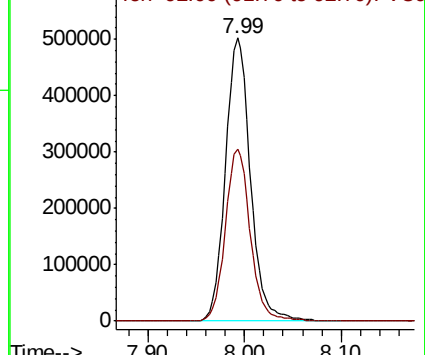
91 100

92 60.8 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) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.302 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU038365.D

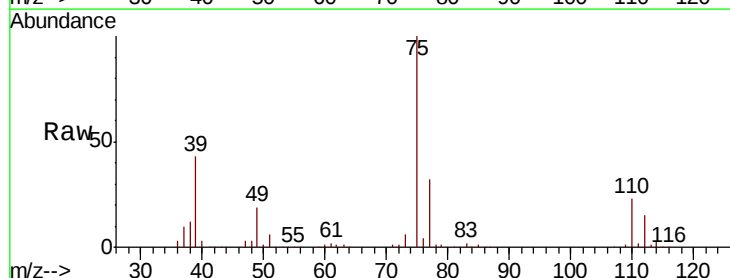
Acq: 28 May 2020 22:31

Tgt Ion: 75 Resp: 329850

Ion Ratio Lower Upper

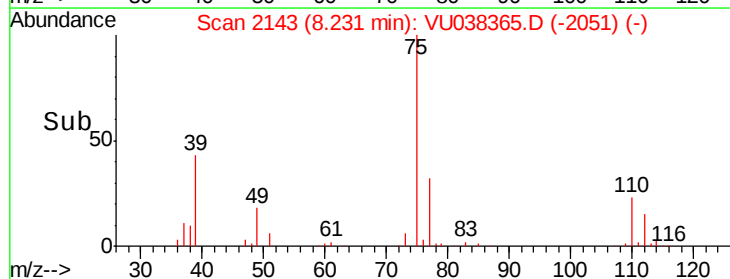
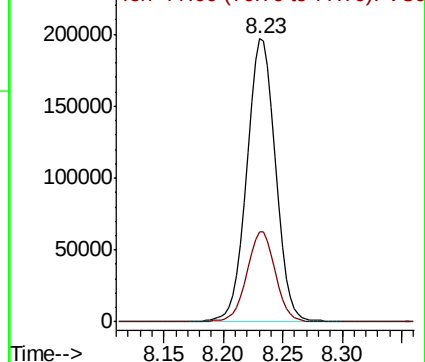
75 100

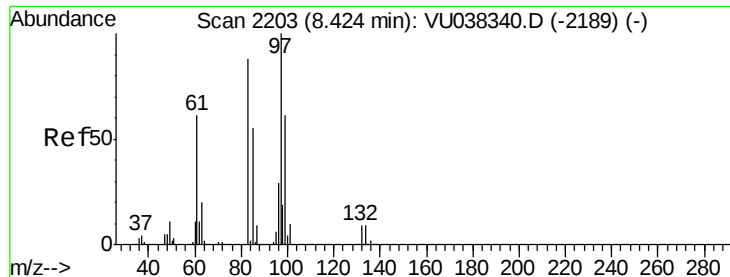
77 31.7 22.1 41.1



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

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





#45

1,1,2-Trichloroethane

Concen: 53.744 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

Tot Ion: 97 Resp: 215933

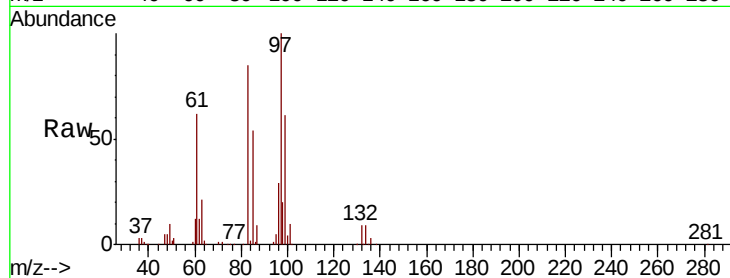
Ion Ratio Lower Upper

97 100

99 61.0 44.0 81.8

83 85.2 60.8 113.0

85 54.3 38.1 70.9



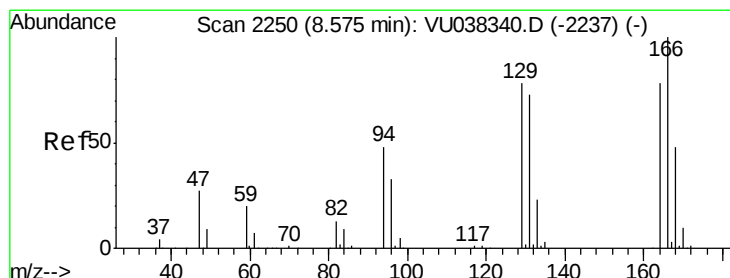
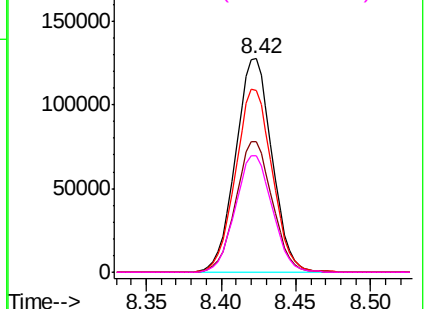
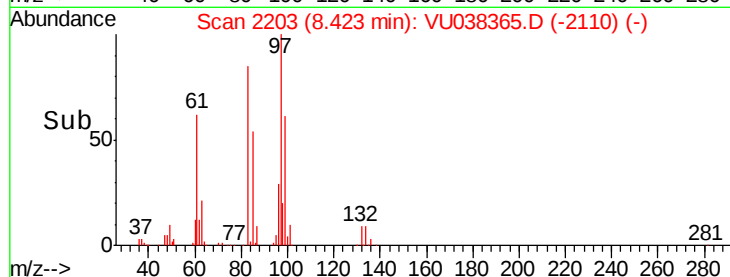
Abundance

Ion 97.00 (96.70 to 97.70): VU038340.D (-2189) (-)

Ion 99.00 (98.70 to 99.70): VU038340.D (-2189) (-)

Ion 83.00 (82.70 to 83.70): VU038340.D (-2189) (-)

Ion 85.00 (84.70 to 85.70): VU038340.D (-2189) (-)



#46

Tetrachloroethene

Concen: 49.208 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Tgt Ion: 164 Resp: 150262

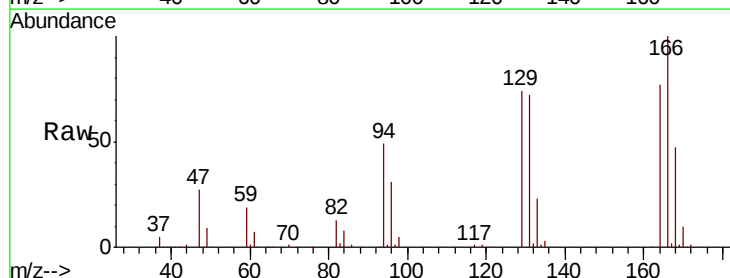
Ion Ratio Lower Upper

164 100

129 96.7 67.2 124.8

131 93.9 63.4 117.8

166 130.0 88.5 164.4



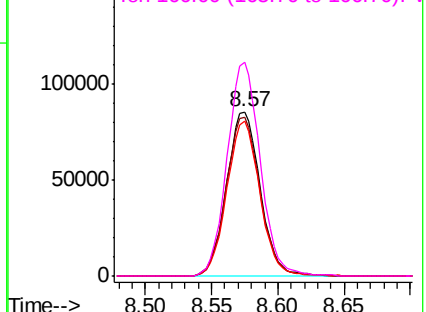
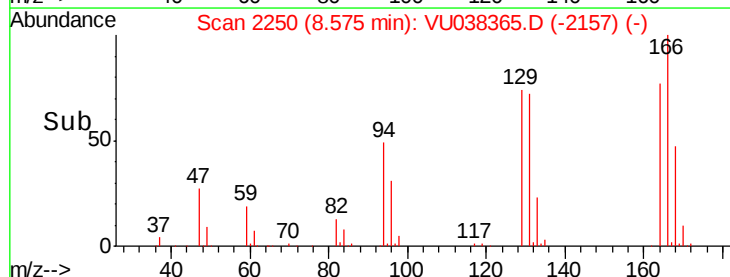
Abundance

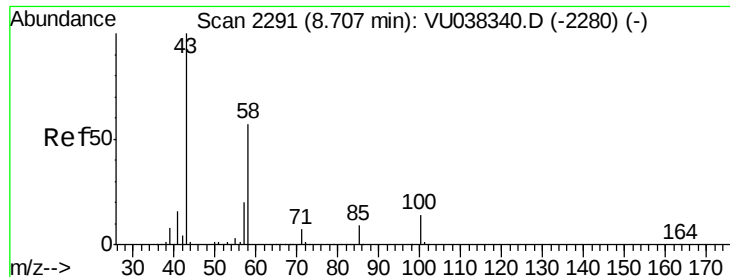
Ion 164.00 (163.70 to 164.70): VU038340.D (-2237) (-)

Ion 129.00 (128.70 to 129.70): VU038340.D (-2237) (-)

Ion 131.00 (130.70 to 131.70): VU038340.D (-2237) (-)

Ion 166.00 (165.70 to 166.70): VU038340.D (-2237) (-)

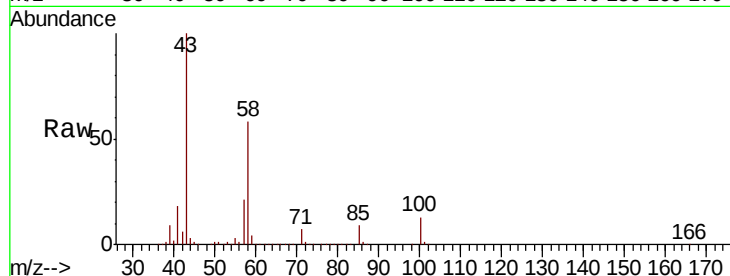




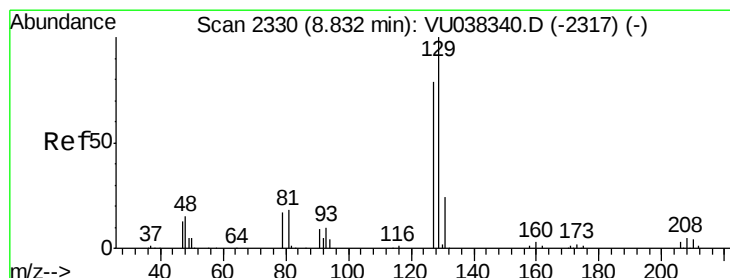
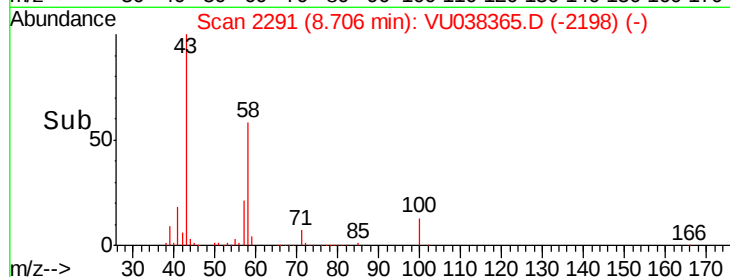
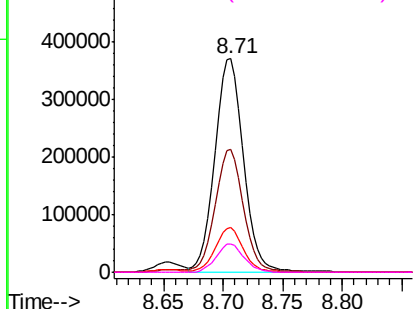
#48
2-Hexanone
Concen: 108.857 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

Tot Ion: 43 Resp: 618871
Ion Ratio Lower Upper
43 100
58 56.9 45.5 68.3
57 20.2 16.3 24.5
100 12.8 10.5 15.7

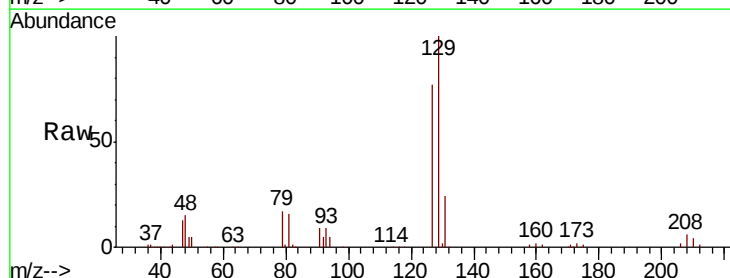


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

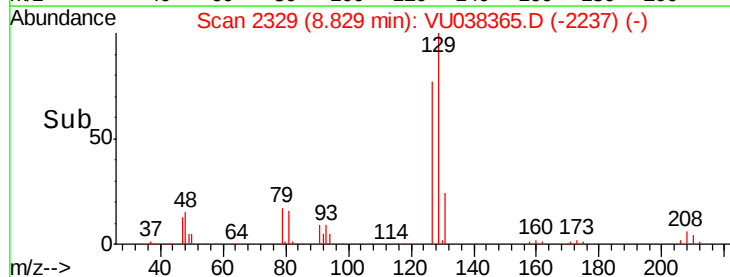
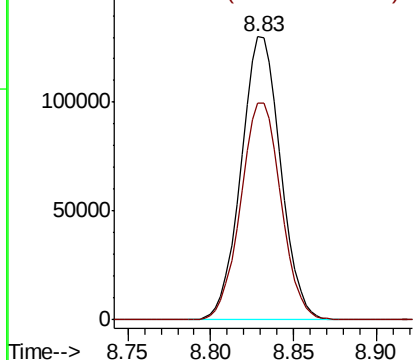


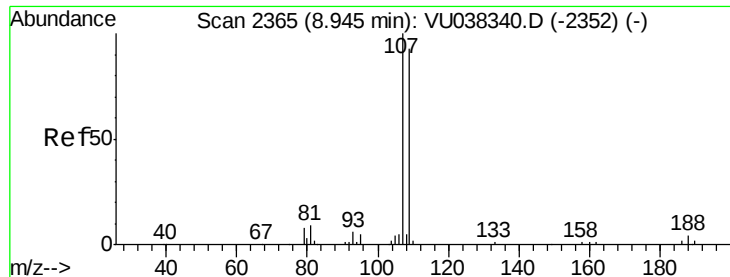
#49
Dibromochloromethane
Concen: 53.136 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Tgt Ion: 129 Resp: 216164
Ion Ratio Lower Upper
129 100
127 76.6 55.2 102.6



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

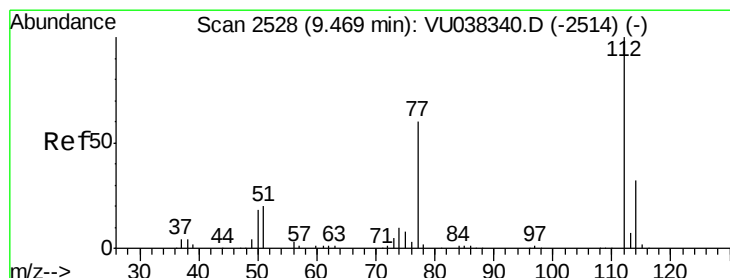
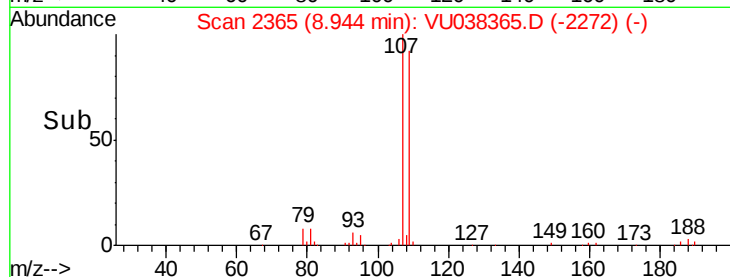
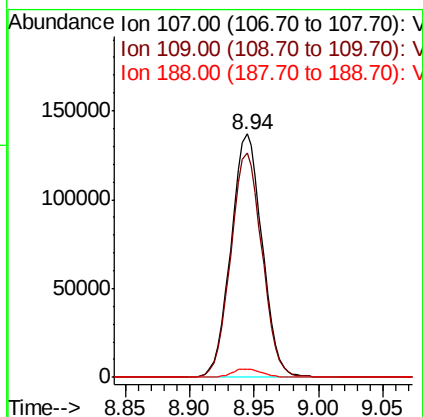
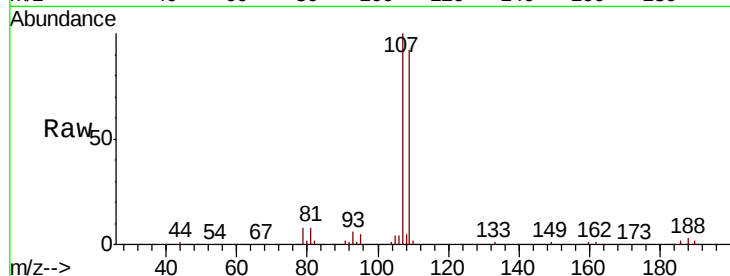




#50
1,2-Dibromoethane
Concen: 53.344 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

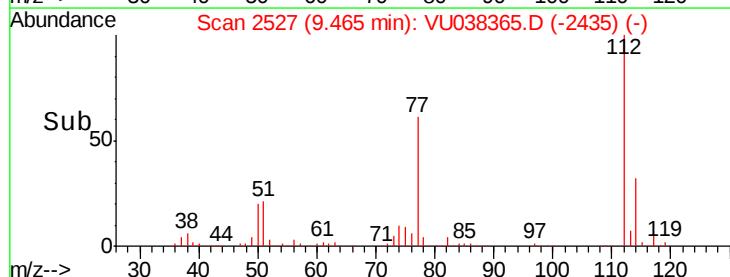
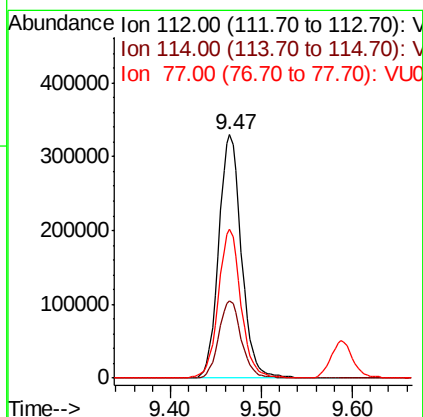
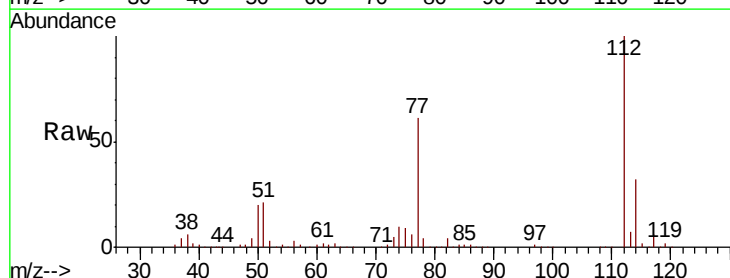
Instrument :
MSVOA_U
ClientSampleId :
VSTD05038

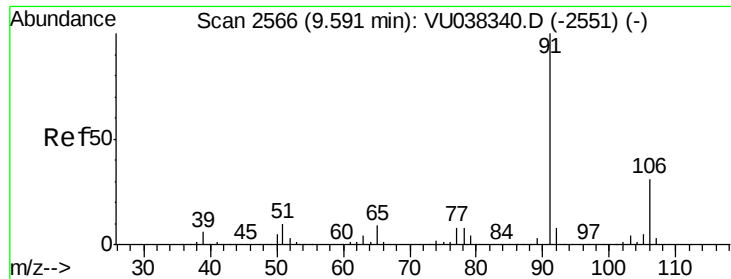
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.1	64.3	119.5
188	3.4	2.8	4.2



#51
Chlorobenzene
Concen: 51.709 ug/L
RT: 9.47 min Scan# 2527
Delta R.T. -0.00 min
Lab File: VU038365.D
Acq: 28 May 2020 22:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.6	42.0
77	61.2	48.8	73.2





#52

Ethylbenzene

Concen: 52.130 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

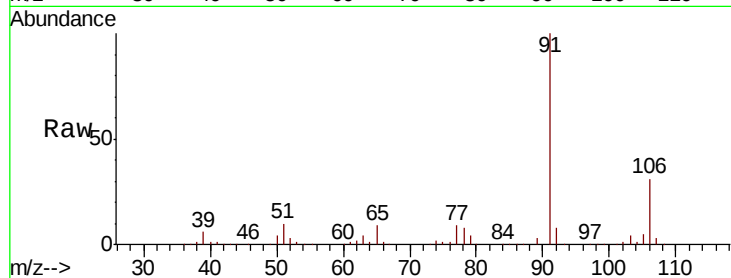
VSTD05038

Tot Ion: 91 Resp: 1001104

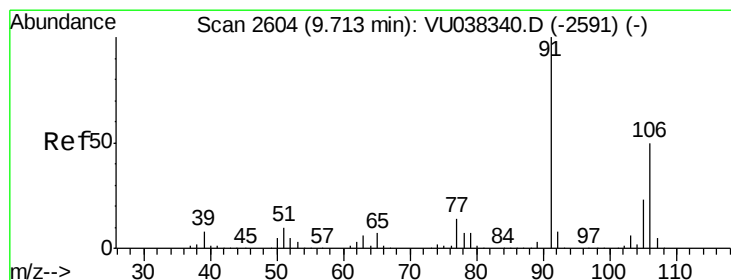
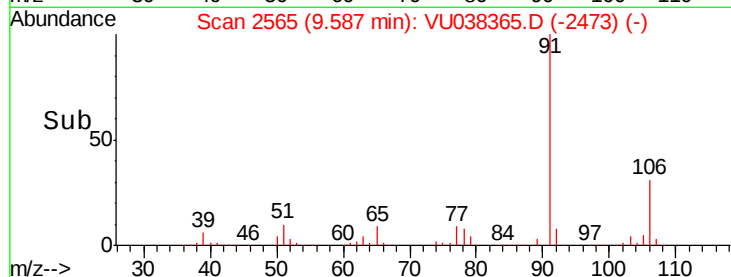
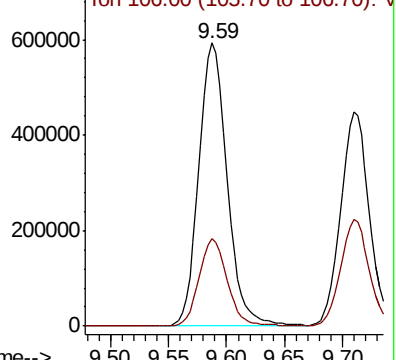
Ion Ratio Lower Upper

91 100

106 30.7 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038340.D (-2551) (-)



#53

m,p-Xylene

Concen: 52.759 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU038365.D

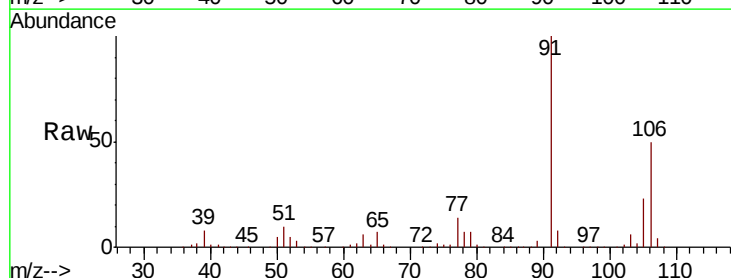
Acq: 28 May 2020 22:31

Tgt Ion: 106 Resp: 387459

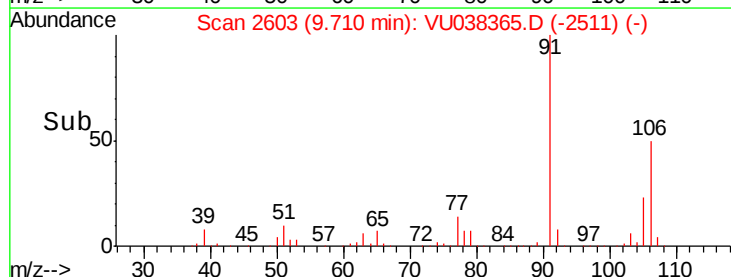
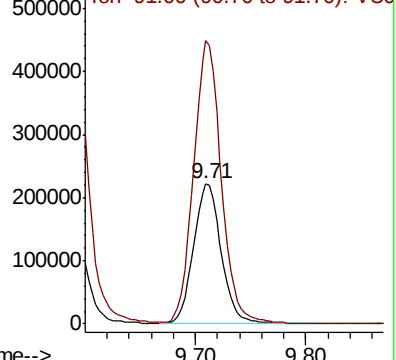
Ion Ratio Lower Upper

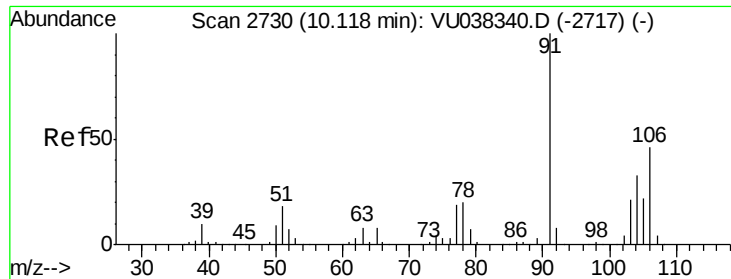
106 100

91 201.6 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038365.D (-2511) (-)





#54

o-xylene

Concen: 52.706 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

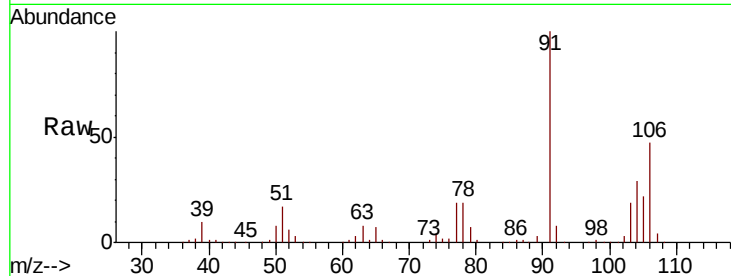
VSTD05038

Tot Ion:106 Resp: 376331

Ion Ratio Lower Upper

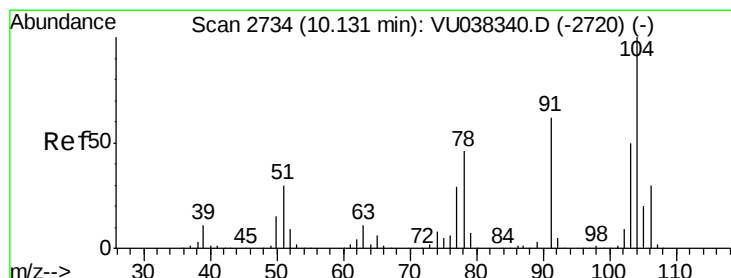
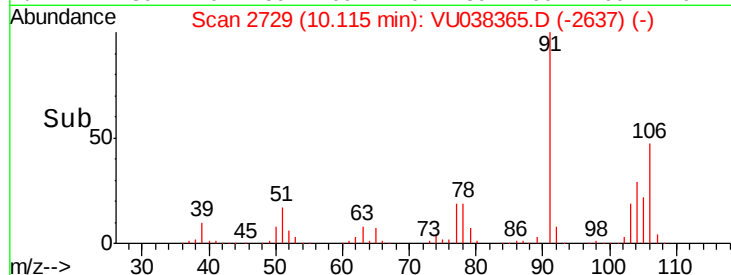
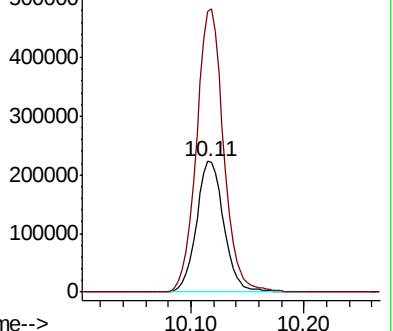
106 100

91 214.5 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.474 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU038365.D

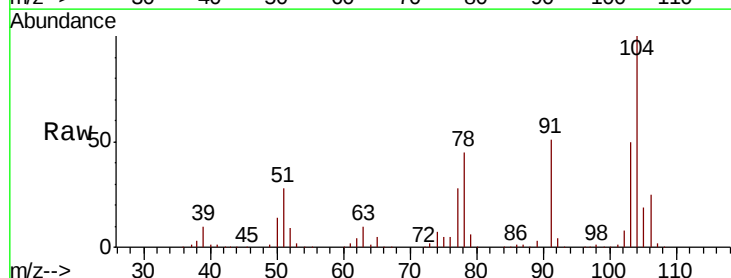
Acq: 28 May 2020 22:31

Tgt Ion:104 Resp: 656217

Ion Ratio Lower Upper

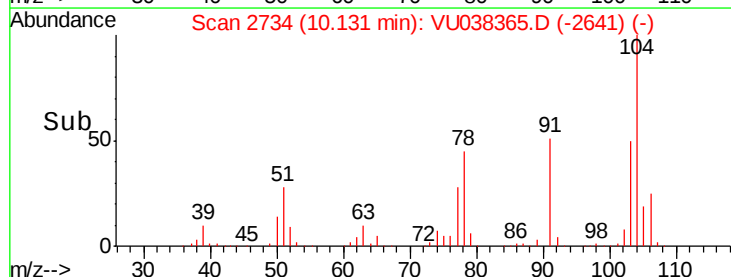
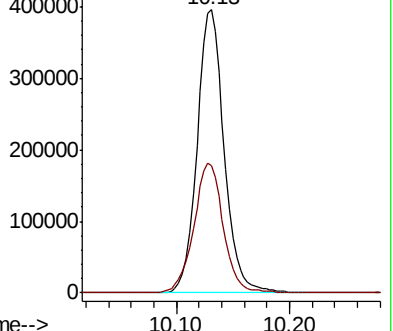
104 100

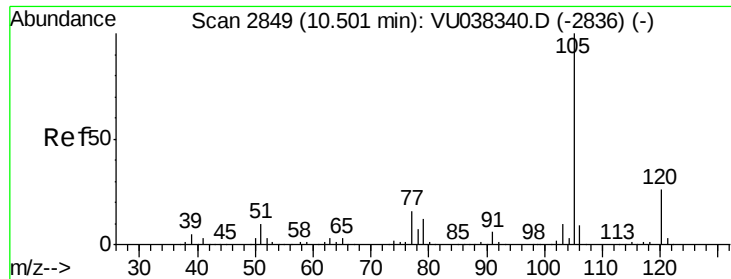
78 45.0 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.595 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

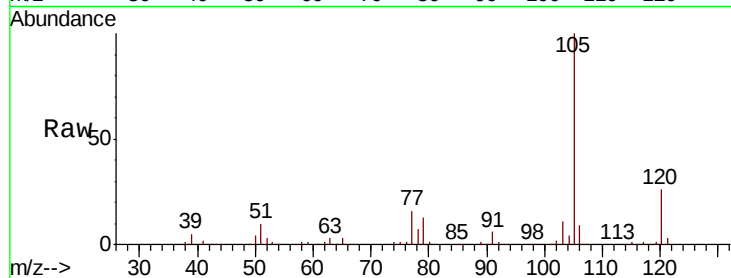
Tot Ion:105 Resp: 962710

Ion Ratio Lower Upper

105 100

120 25.5 20.6 31.0

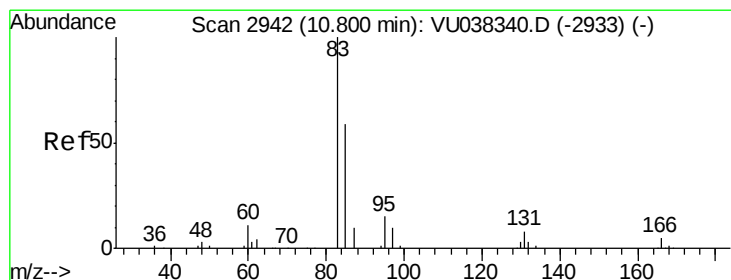
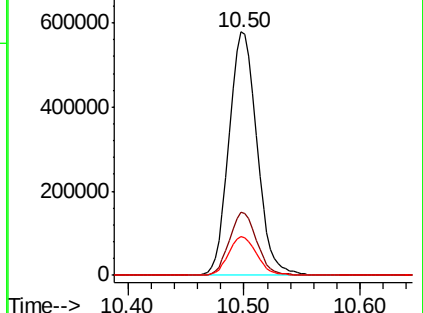
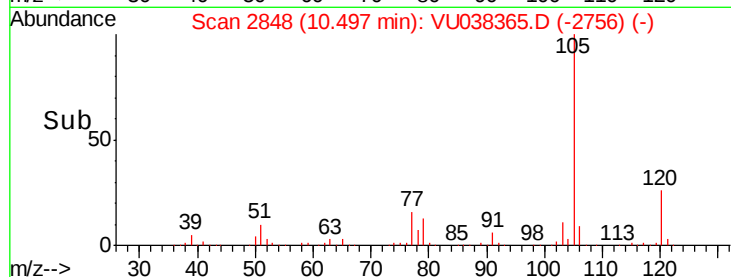
77 16.0 12.8 19.2



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: 53.287 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

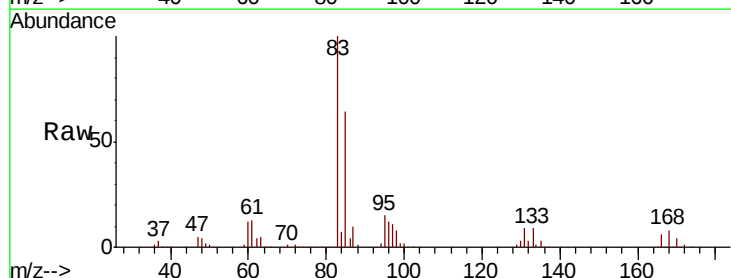
Tgt Ion: 83 Resp: 366387

Ion Ratio Lower Upper

83 100

85 64.4 45.5 84.5

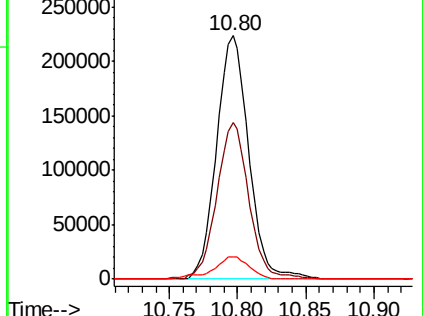
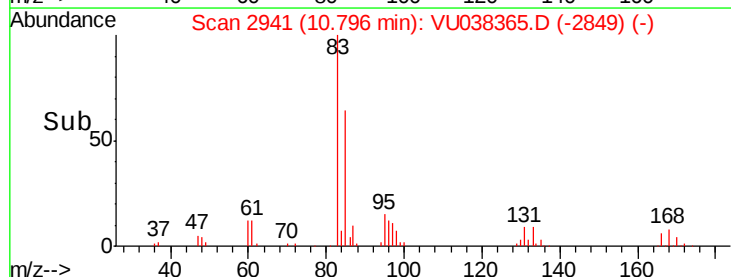
131 9.3 7.3 10.9

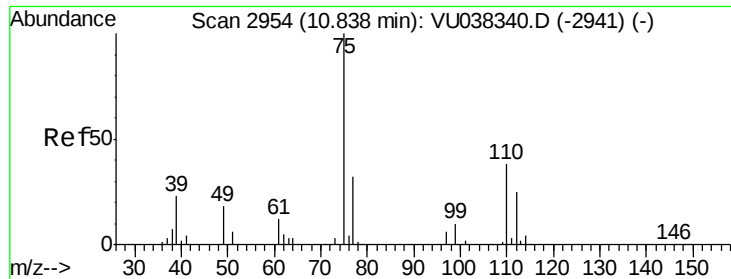


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

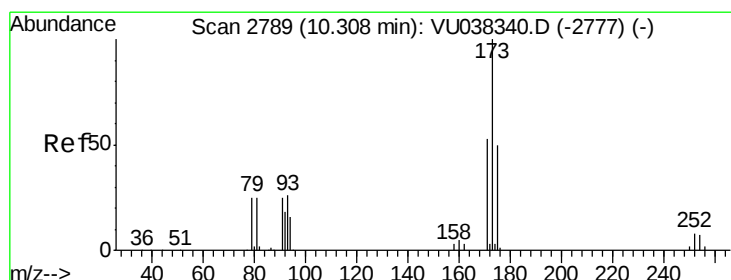
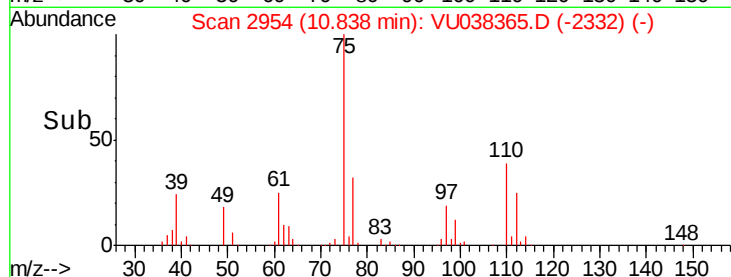
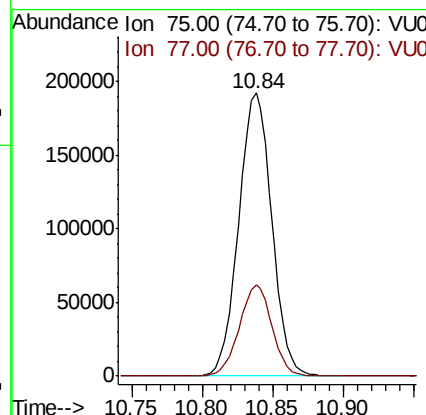
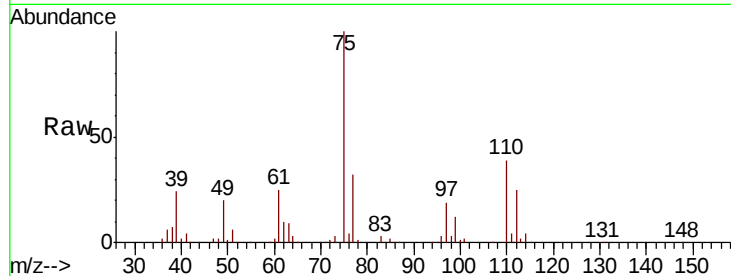




#59
 1,2,3-Trichloropropane
 Concen: 53.397 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

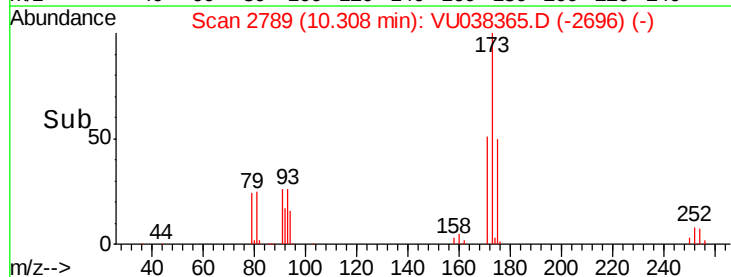
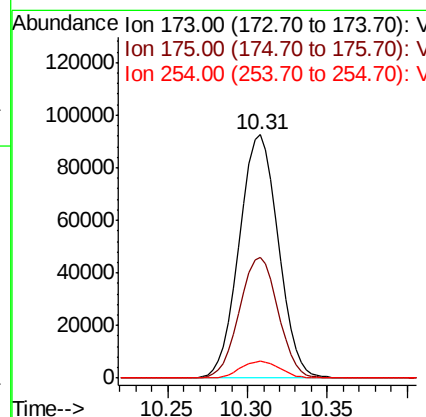
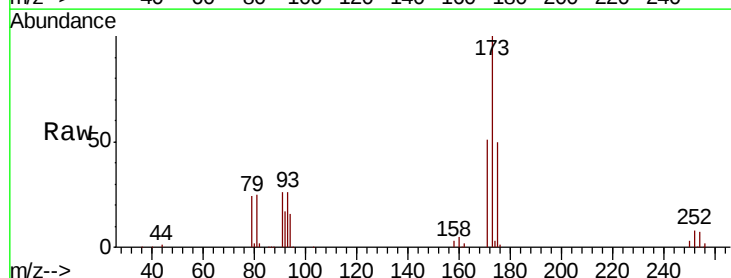
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

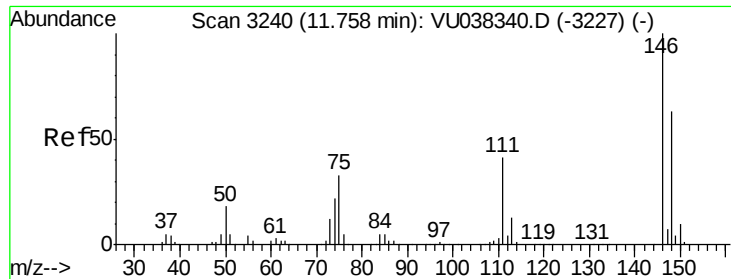
Tot Ion: 75 Resp: 316143
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.8 38.8



#61
 Bromoform
 Concen: 53.037 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion: 173 Resp: 154292
 Ion Ratio Lower Upper
 173 100
 175 49.2 39.0 58.4
 254 6.9 5.3 7.9

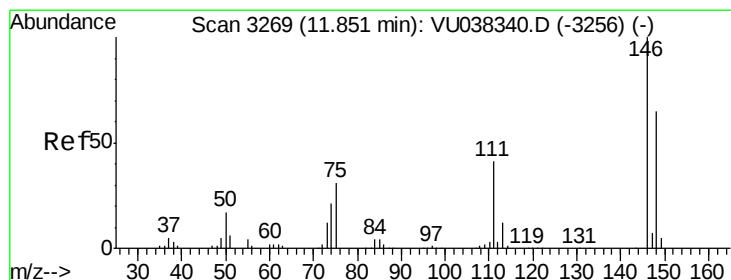
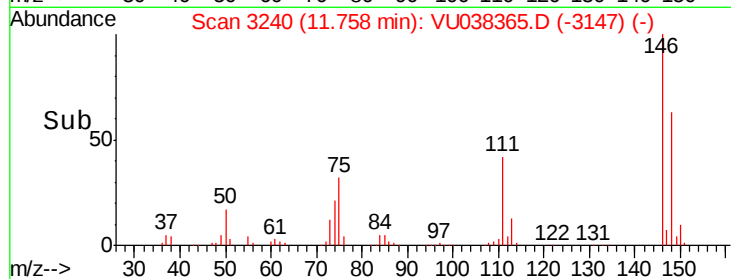
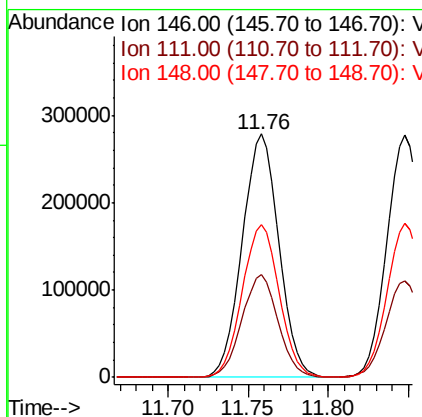
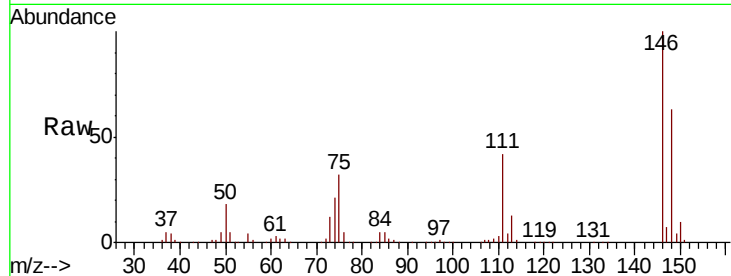




#62
 1,3-Dichlorobenzene
 Concen: 51.518 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

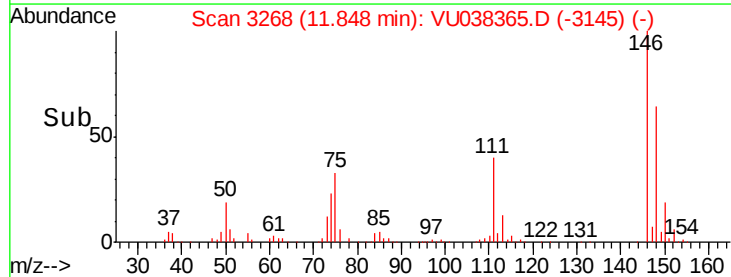
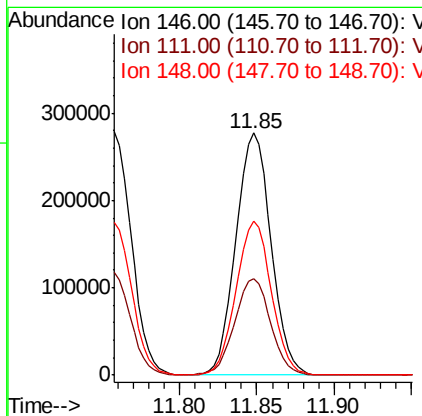
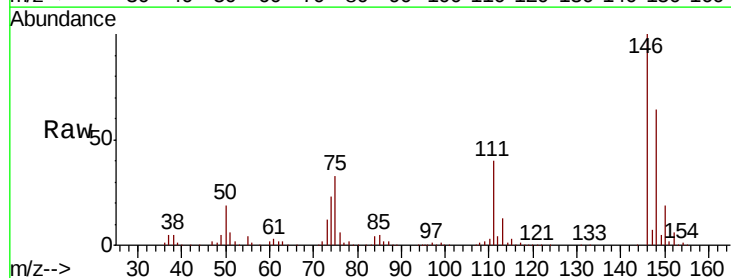
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

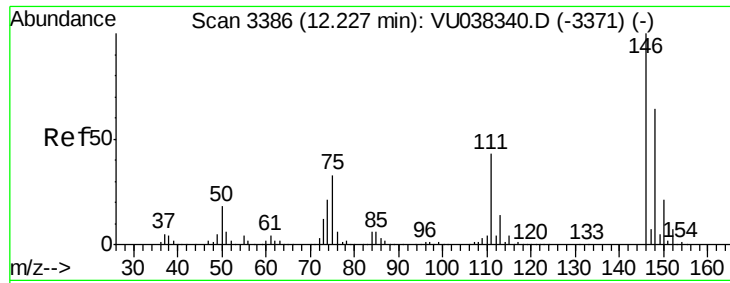
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	29.4	54.6
148	62.5	45.8	85.0



#63
 1,4-Dichlorobenzene
 Concen: 50.903 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	27.7	51.5
148	63.7	44.7	83.1





#65

1,2-Dichlorobenzene

Concen: 51.957 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

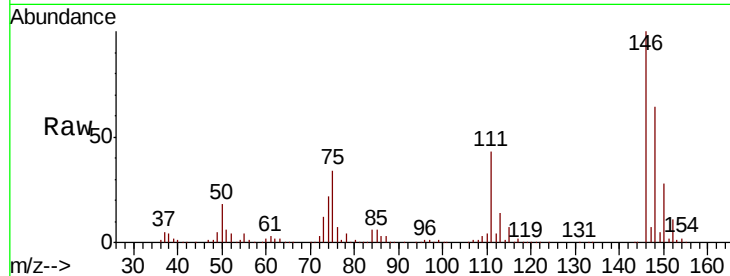
Tot Ion:146 Resp: 436163

Ion Ratio Lower Upper

146 100

111 43.2 35.3 52.9

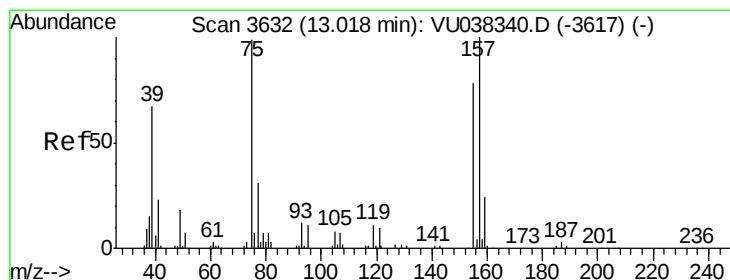
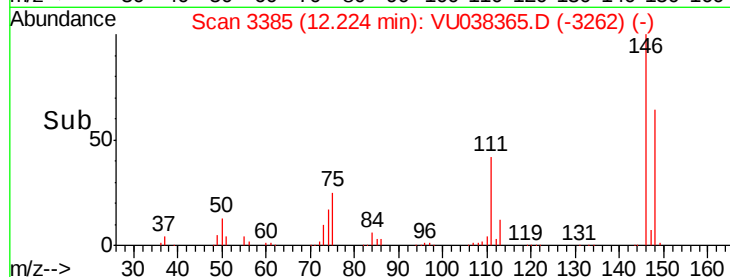
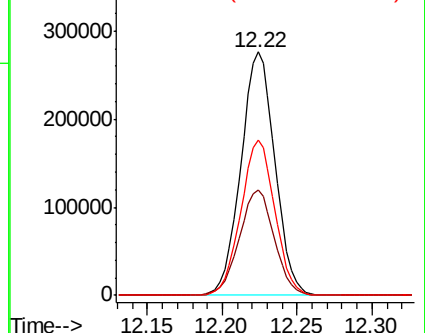
148 63.9 52.5 78.7



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: 54.301 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

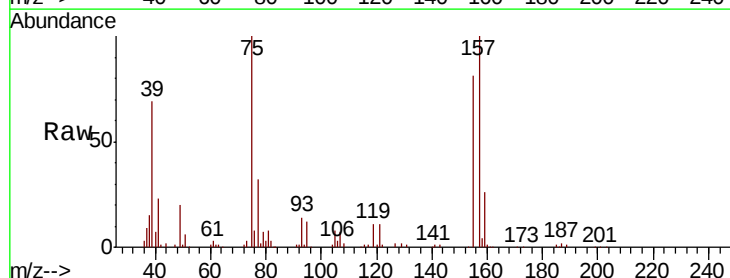
Tgt Ion: 75 Resp: 93320

Ion Ratio Lower Upper

75 100

155 81.3 63.1 94.7

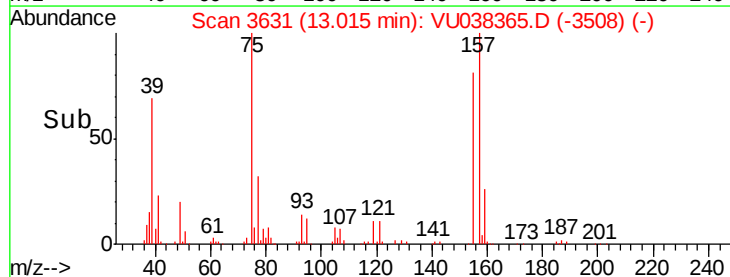
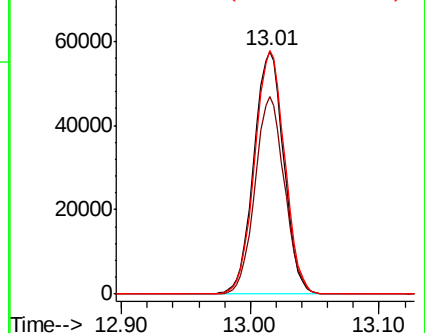
157 100.2 82.7 124.1

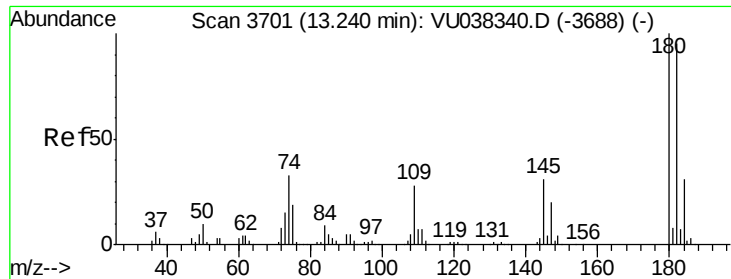


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

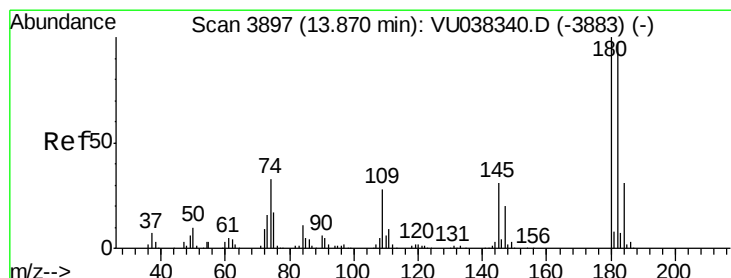
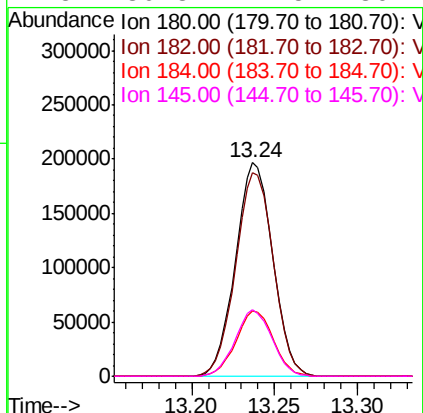
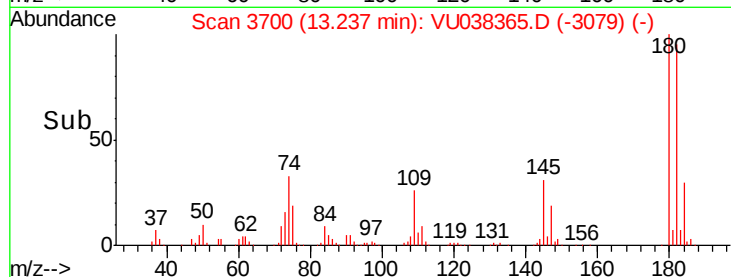
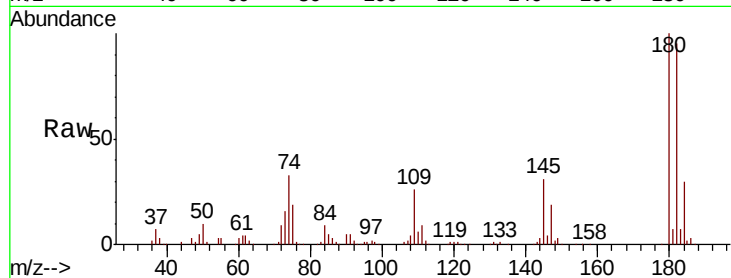




#67
 1,3,5-Trichlorobenzene
 Concen: 51.105 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

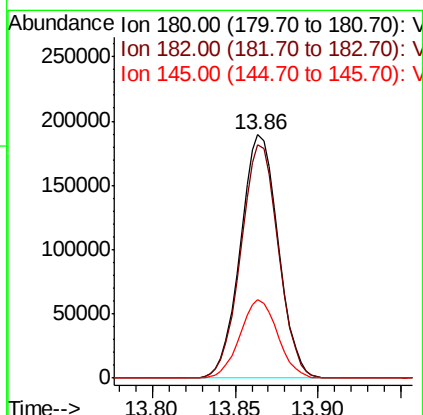
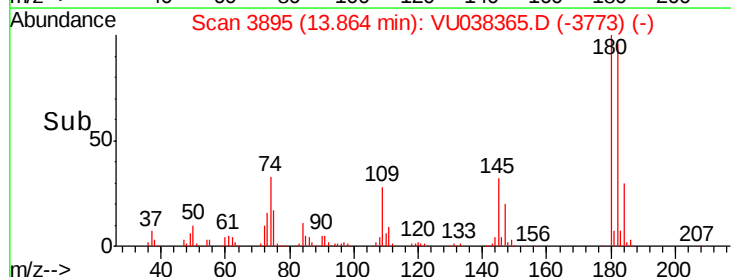
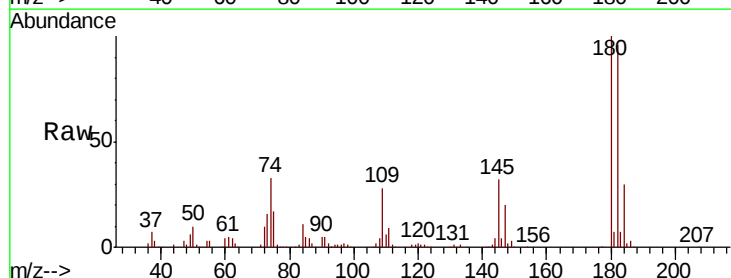
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05038

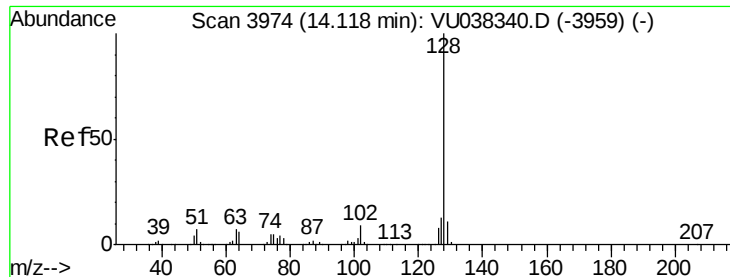
Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.4	116.2
184	30.4	24.3	36.5
145	30.8	24.5	36.7



#68
 1,2,4-trichlorobenzene
 Concen: 51.877 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU038365.D
 Acq: 28 May 2020 22:31

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.4	77.1	115.7
145	32.1	25.8	38.8





#69

Naphthalene

Concen: 56.532 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD05038

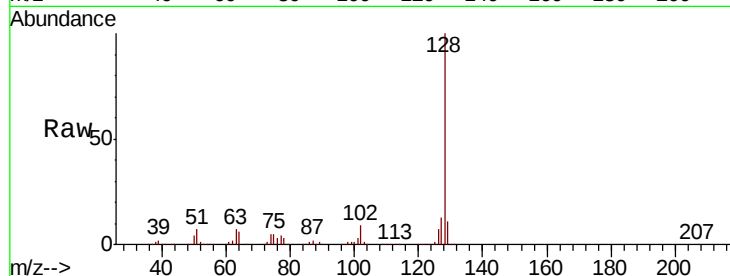
Tot Ion:128 Resp: 1169587

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

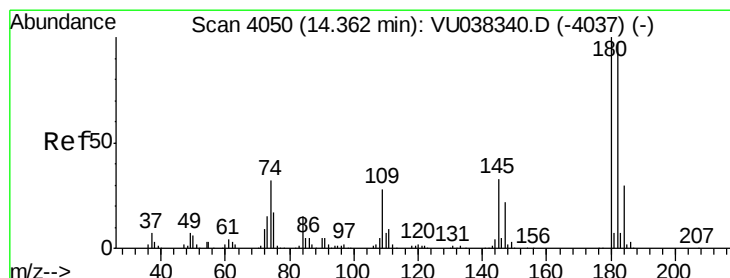
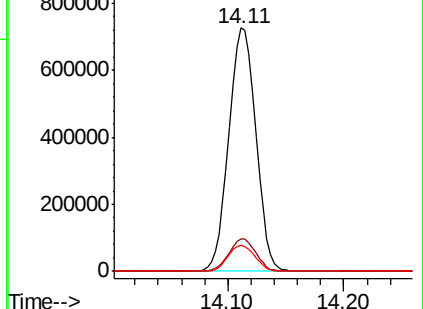
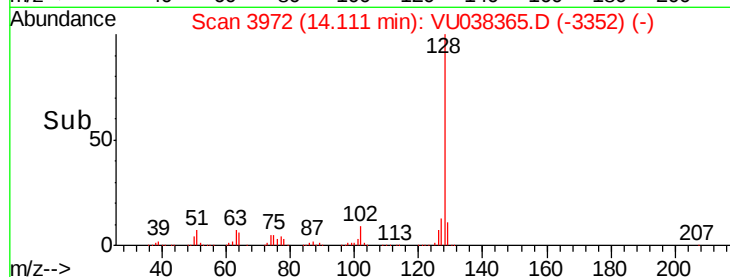
129 10.8 8.6 12.8



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: 53.533 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU038365.D

Acq: 28 May 2020 22:31

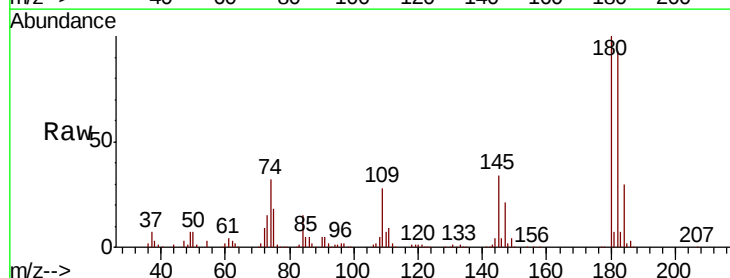
Tgt Ion:180 Resp: 309010

Ion Ratio Lower Upper

180 100

182 94.8 75.5 113.3

145 34.2 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

