

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU052820\
 Data File : VU038340.D
 Acq On : 28 May 2020 12:05
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Quant Time: May 29 04:27:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM052820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 29 04:25:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	475365	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	463494	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	233621	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	145823	48.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.74%
7) Chloroethane-d5	1.93	69	115585	50.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.26%
11) 1,1-Dichloroethene-d2	2.59	63	299817	49.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.32%
21) 2-Butanone-d5	4.66	46	292964	103.33	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.33%
24) Chloroform-d	5.10	84	298658	50.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.94%
26) 1,2-Dichloroethane-d4	5.74	65	195926	48.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.58%
32) Benzene-d6	5.76	84	599026	49.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.48%
36) 1,2-Dichloropropane-d6	6.72	67	190869	51.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.26%
41) Toluene-d8	7.92	98	537243	50.47	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.94%
43) trans-1,3-Dichloropropene-	8.20	79	93523	50.32	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	100.64%
47) 2-Hexanone-d5	8.66	63	207870	105.76	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.76%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	272205	49.27	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.54%
64) 1,2-Dichlorobenzene-d4	12.21	152	217843	50.31	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.62%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.40	85	181334	50.679	ug/L 97
3) Chloromethane	1.53	50	162575	49.299	ug/L 100
5) Vinyl chloride	1.62	62	181943	49.942	ug/L 99
6) Bromomethane	1.87	94	82247	55.184	ug/L 98
8) Chloroethane	1.95	64	108516	48.747	ug/L 99
9) Trichlorofluoromethane	2.16	101	245778	50.339	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	150383	51.514	ug/L 98
12) 1,1-Dichloroethene	2.60	96	145401	50.449	ug/L 90
13) Acetone	2.66	43	272664	115.740	ug/L 97
14) Carbon disulfide	2.82	76	471811	50.195	ug/L 100
15) Methyl Acetate	2.98	43	207947	49.242	ug/L 100
16) Methylene chloride	3.08	84	162351	49.023	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	156428	50.529	ug/L 99
18) Methyl tert-butyl Ether	3.40	73	490765	49.436	ug/L 99
19) 1,1-Dichloroethane	3.91	63	289716	49.417	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	171327	50.519	ug/L 100
22) 2-Butanone	4.75	43	345062	104.471	ug/L 99

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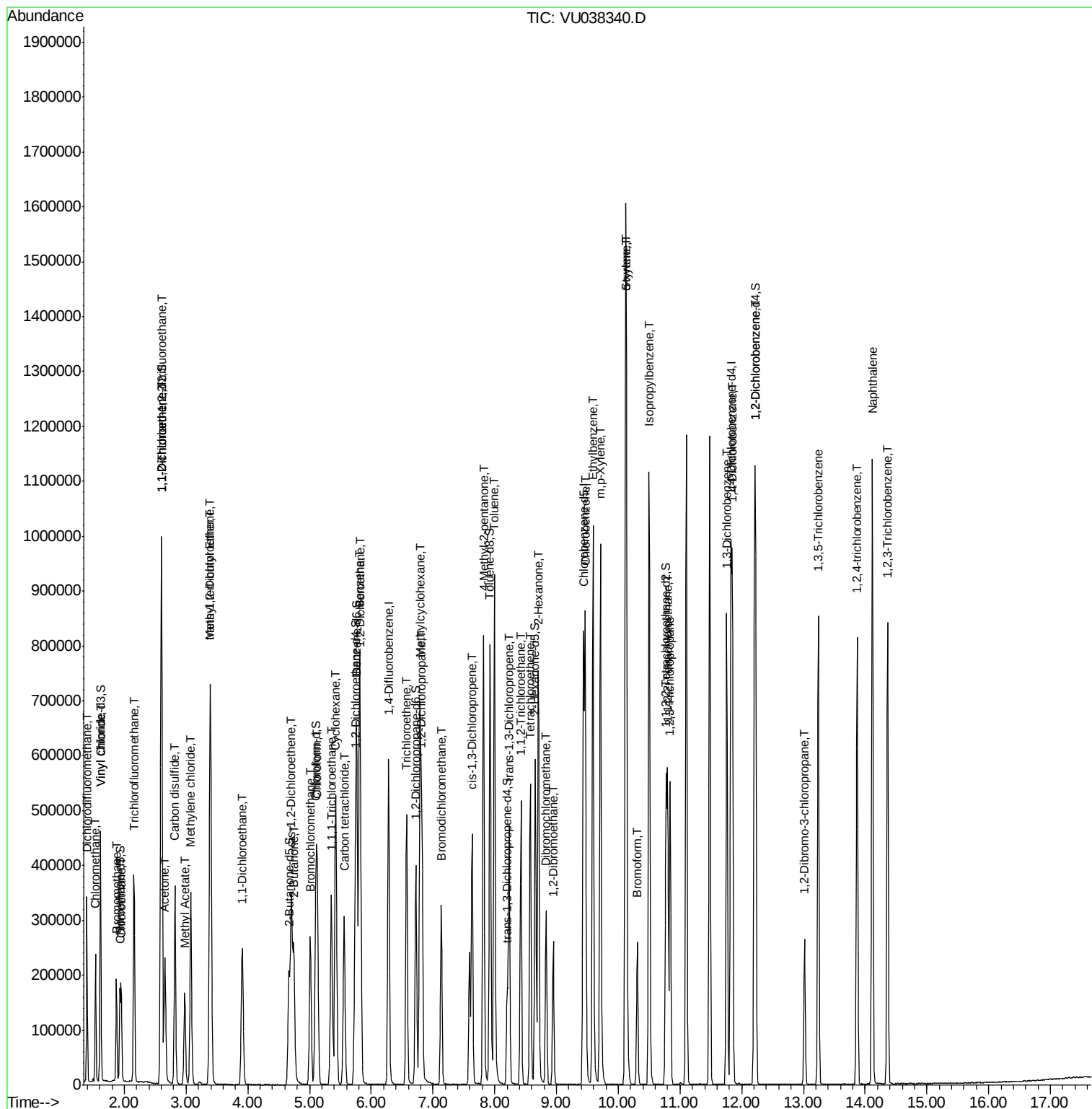
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	82395	49.075	ug/L	97
25) Chloroform	5.12	83	287678	47.715	ug/L	99
27) 1,2-Dichloroethane	5.83	62	233247	47.780	ug/L	98
29) Cyclohexane	5.42	56	273453	51.456	ug/L	99
30) 1,1,1-Trichloroethane	5.35	97	253228	50.243	ug/L	100
31) Carbon tetrachloride	5.56	117	212739	50.646	ug/L	99
33) Benzene	5.81	78	655148	50.328	ug/L	100
34) Trichloroethene	6.57	95	167721	50.357	ug/L	98
35) Methylcyclohexane	6.79	83	263524	50.395	ug/L	98
37) 1,2-Dichloropropane	6.82	63	167794	49.701	ug/L	100
38) Bromodichloromethane	7.13	83	214312	49.535	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	263905	49.124	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	541030	100.766	ug/L	99
42) Toluene	7.99	91	690456	50.521	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	255191	50.746	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	162221	50.634	ug/L	99
46) Tetrachloroethene	8.57	164	122834	50.446	ug/L	98
48) 2-Hexanone	8.71	43	469514	103.570	ug/L	99
49) Dibromochloromethane	8.83	129	162454	50.081	ug/L	100
50) 1,2-Dibromoethane	8.94	107	171321	49.750	ug/L	99
51) Chlorobenzene	9.47	112	437242	49.781	ug/L	99
52) Ethylbenzene	9.59	91	773176	50.491	ug/L	98
53) m,p-Xylene	9.71	106	298622	50.994	ug/L	99
54) o-xylene	10.12	106	288168	50.614	ug/L	99
55) Styrene	10.13	104	502932	51.396	ug/L	100
56) Isopropylbenzene	10.50	105	754976	50.743	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	274126	49.999	ug/L	97
59) 1,2,3-Trichloropropane	10.84	75	232898	49.332	ug/L	99
61) Bromoform	10.31	173	113293	48.271	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	347513	50.883	ug/L	97
63) 1,4-Dichlorobenzene	11.85	146	346803	49.957	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	339701	50.157	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	69708	50.276	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	251470	51.737	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	243206	52.170	ug/L	98
69) Naphthalene	14.12	128	887957	53.198	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	244180	52.433	ug/L	99

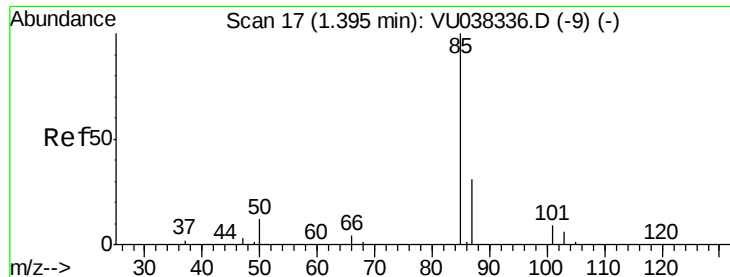
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 50.679 ug/L

RT: 1.40 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

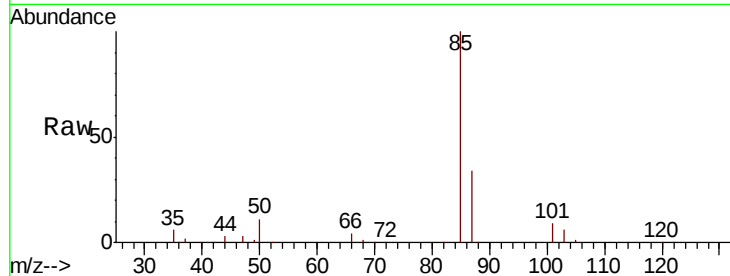
VSTD05037

Tot Ion: 85 Resp: 181334

Ion Ratio Lower Upper

85 100

87 33.2 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU038336.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038336.D (-9) (-)

1.40

200000

150000

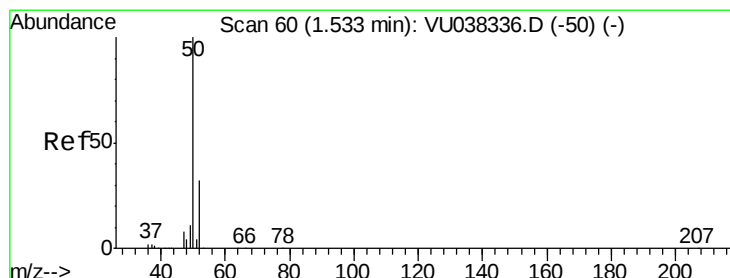
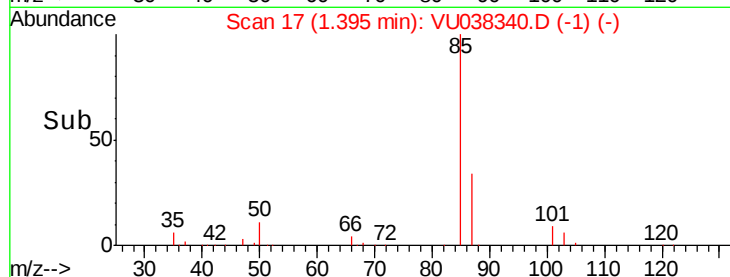
100000

50000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 49.299 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU038340.D

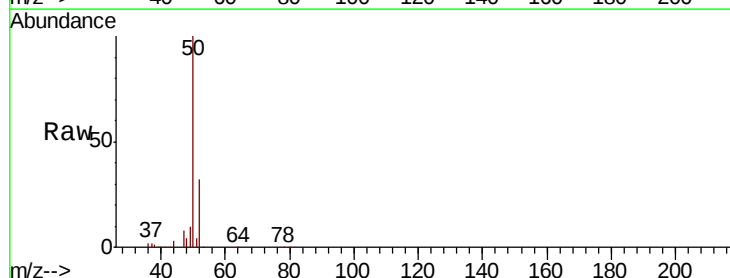
Acq: 28 May 2020 12:05

Tgt Ion: 50 Resp: 162575

Ion Ratio Lower Upper

50 100

52 31.8 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VU038336.D (-50) (-)

Ion 52.00 (51.70 to 52.70): VU038336.D (-50) (-)

1.53

150000

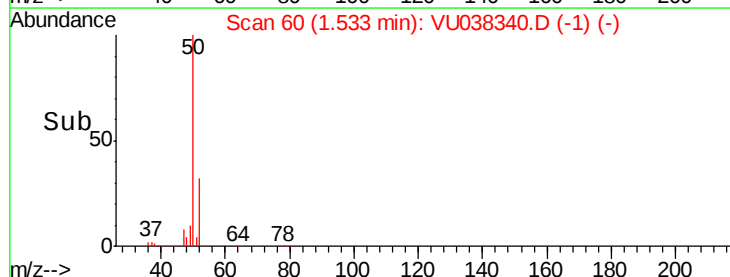
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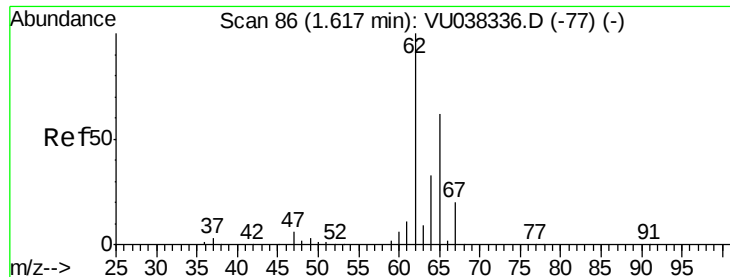
50000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 49.942 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

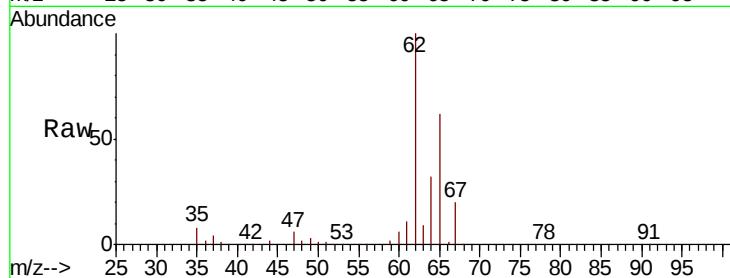
VSTD05037

Tot Ion: 62 Resp: 181943

Ion Ratio Lower Upper

62 100

64 32.4 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU038336.D (-77) (-)

Ion 64.00 (63.70 to 64.70): VU038336.D (-77) (-)

1.62

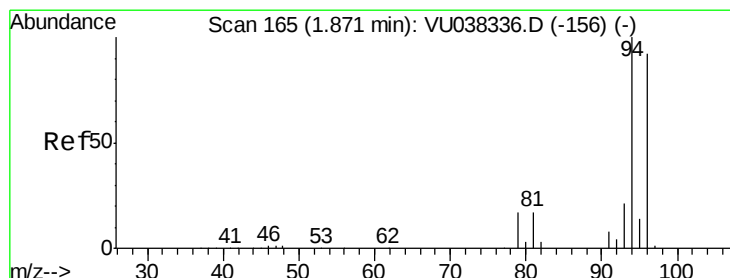
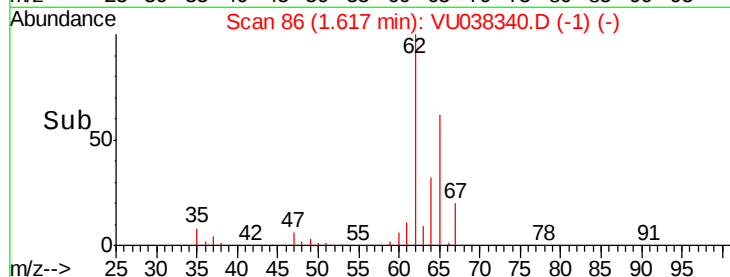
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 55.184 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU038340.D

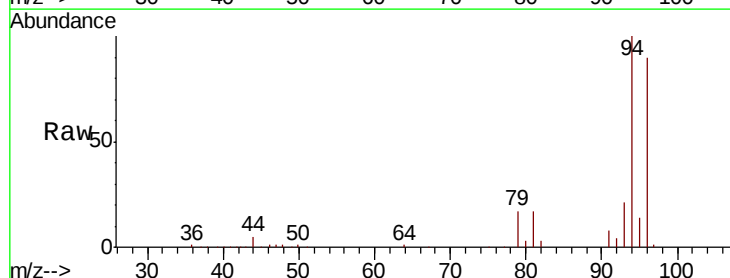
Acq: 28 May 2020 12:05

Tgt Ion: 94 Resp: 82247

Ion Ratio Lower Upper

94 100

96 90.0 64.3 119.5



Abundance Ion 94.00 (93.70 to 94.70): VU038336.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU038336.D (-156) (-)

1.87

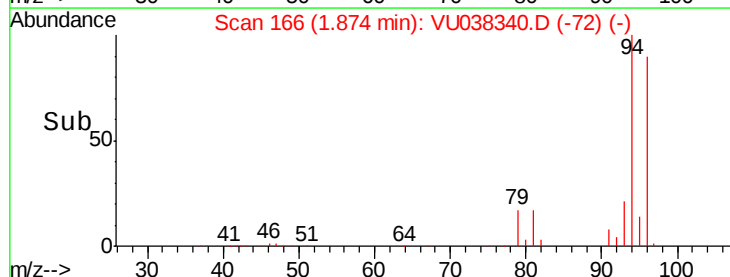
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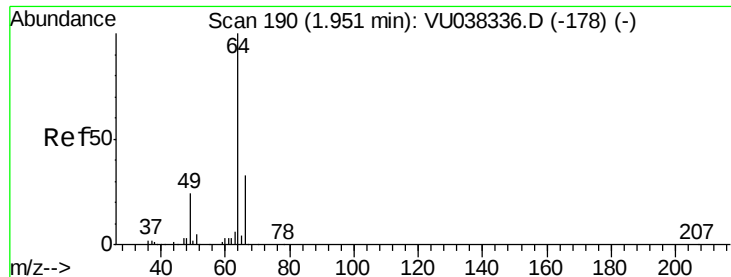
40000

20000

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Time-->

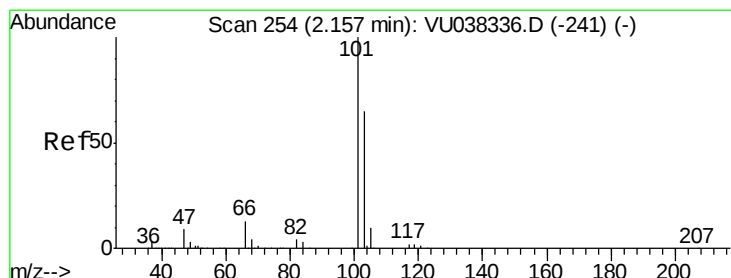
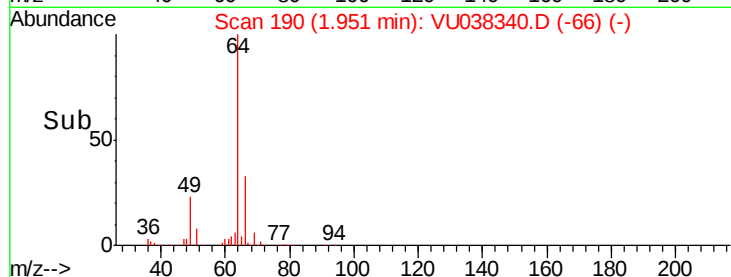
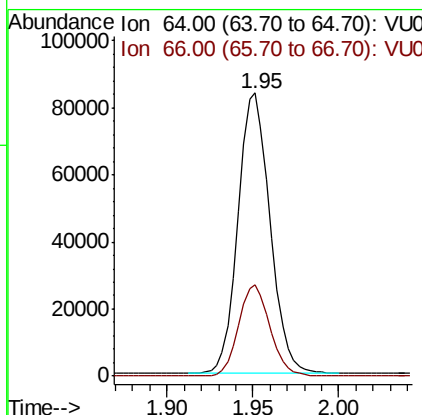
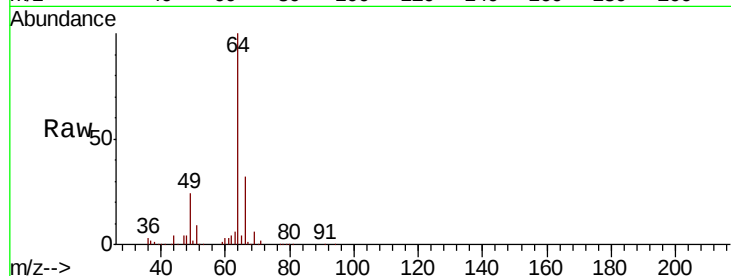




#8
Chloroethane
Concen: 48.747 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

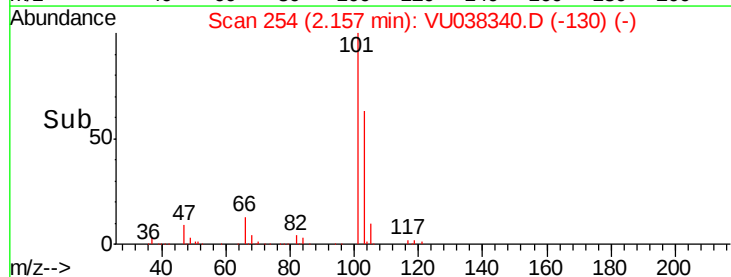
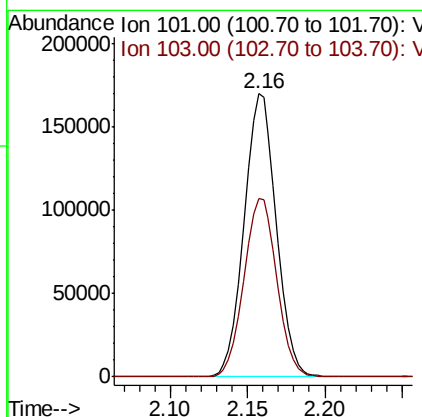
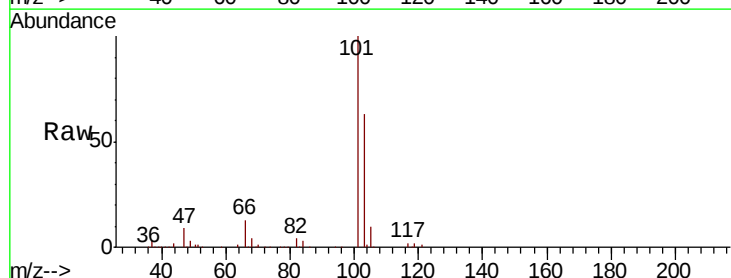
Instrument :
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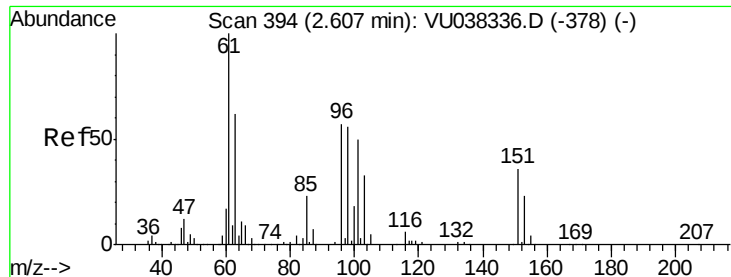
Tot Ion: 64 Resp: 108516
Ion Ratio Lower Upper
64 100
66 32.2 23.0 42.8



#9
Trichlorofluoromethane
Concen: 50.339 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion:101 Resp: 245778
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.0





#10

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

Concen: 51.514 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

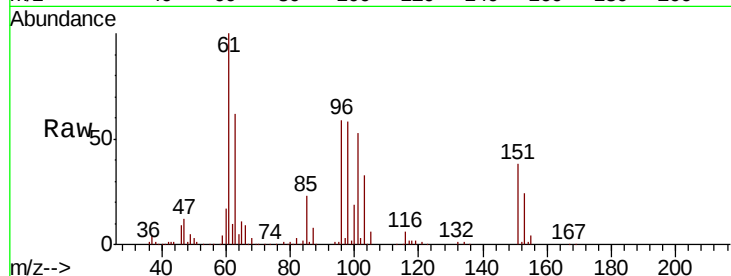
Tot Ion:101 Resp: 150383

Ion Ratio Lower Upper

101 100

85 43.6 35.5 53.3

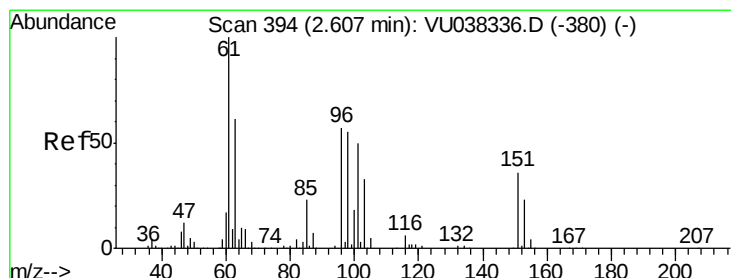
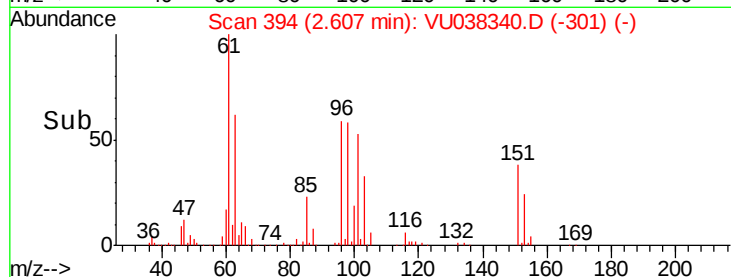
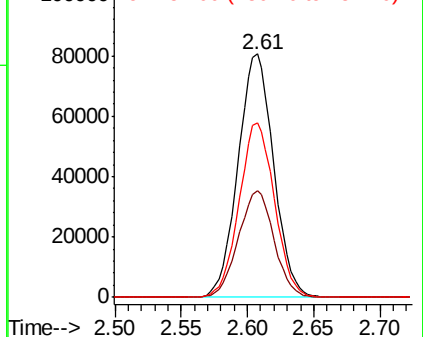
151 71.2 58.4 87.6



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: 50.449 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

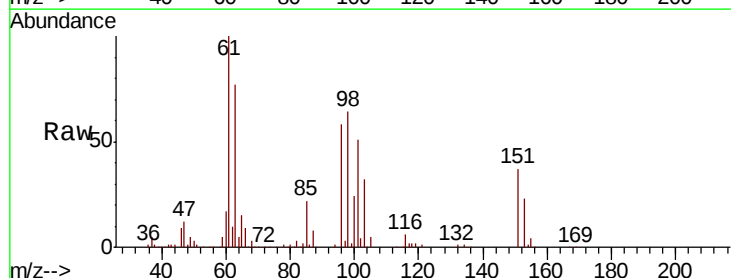
Tgt Ion: 96 Resp: 145401

Ion Ratio Lower Upper

96 100

61 172.5 123.5 229.3

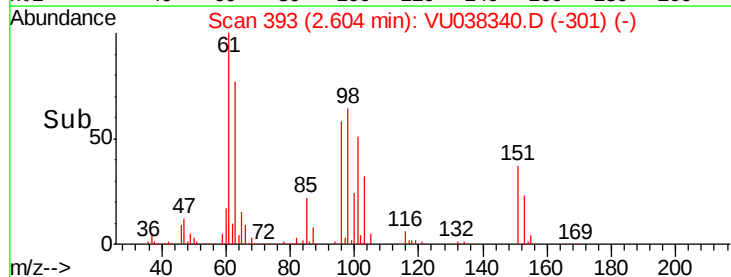
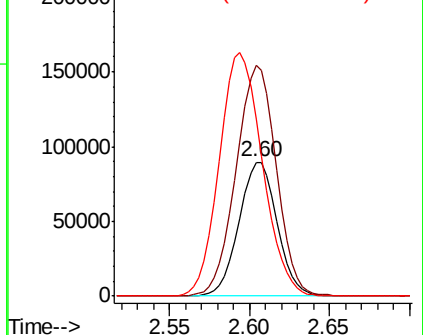
63 132.1 76.6 142.2

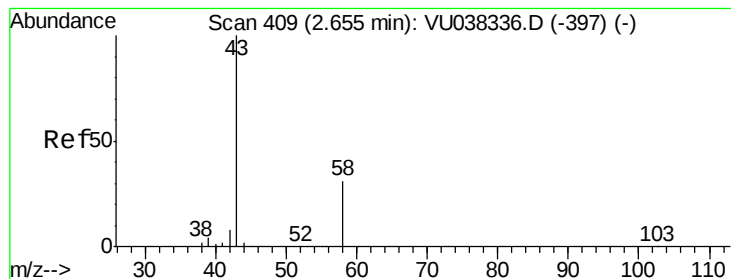


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 115.740 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

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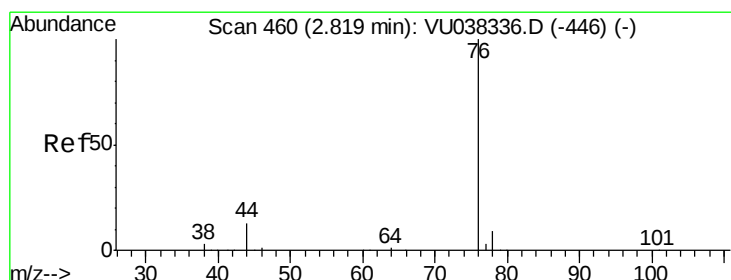
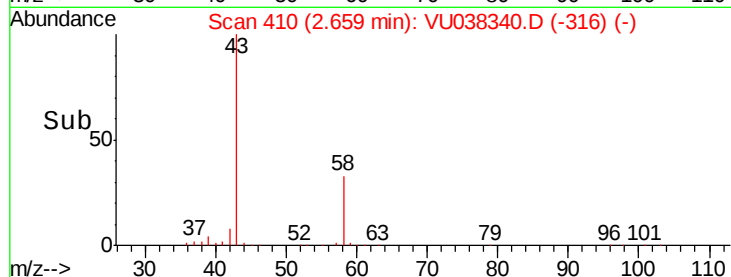
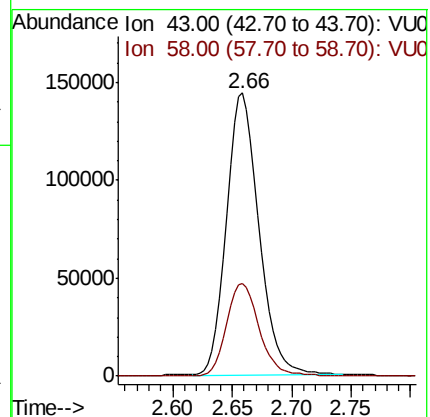
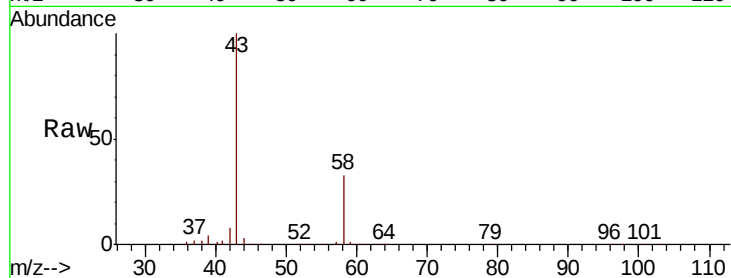
VSTD05037

Tot Ion: 43 Resp: 272664

Ion Ratio Lower Upper

43 100

58 33.4 0.0 63.4



#14

Carbon disulfide

Concen: 50.195 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU038340.D

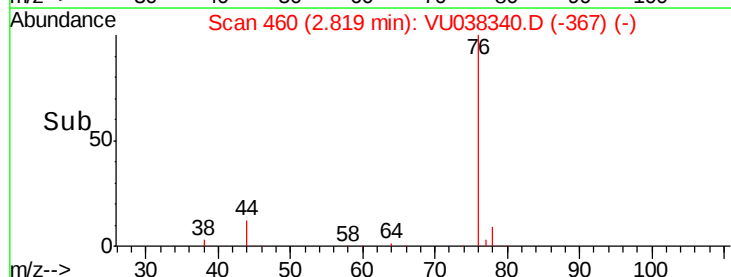
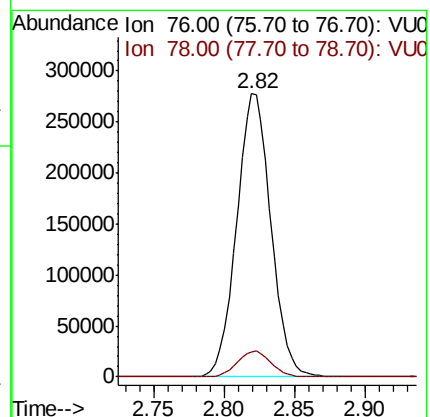
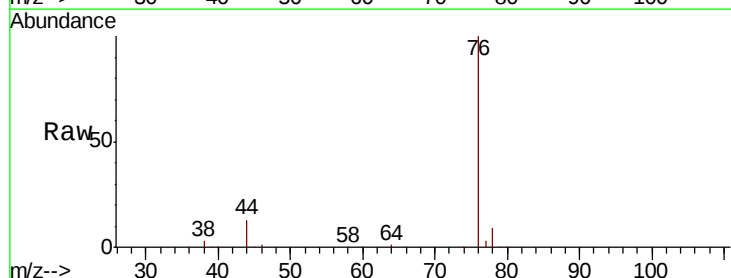
Acq: 28 May 2020 12:05

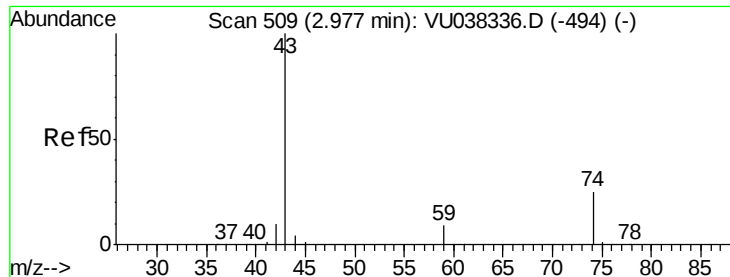
Tgt Ion: 76 Resp: 471811

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

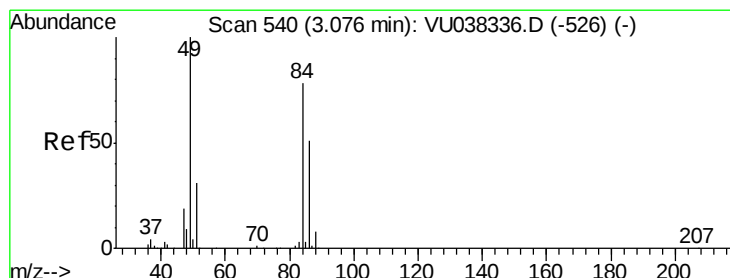
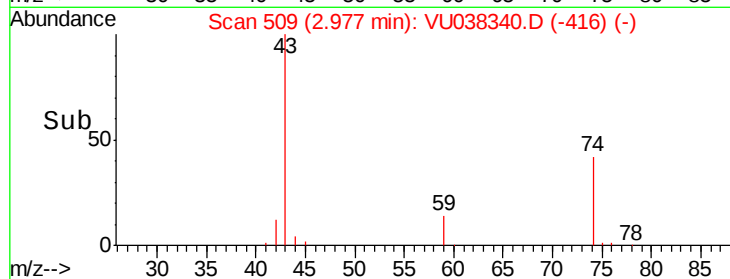
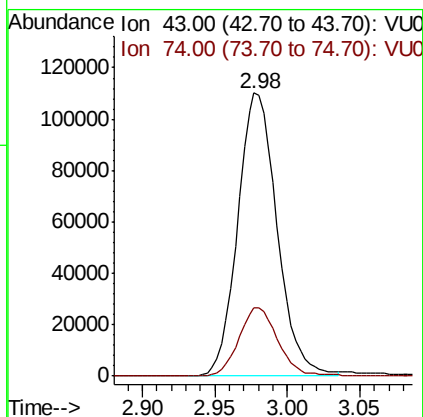
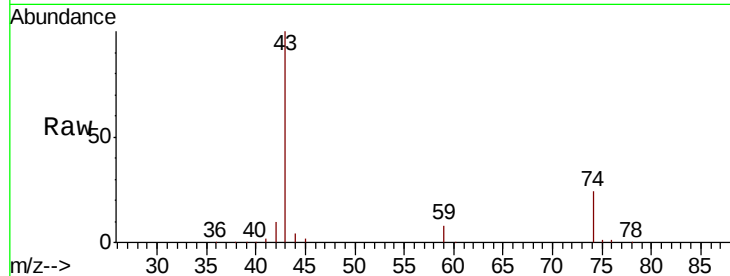




#15
Methvl Acetate
Concen: 49.242 ug/L
RT: 2.98 min Scan# 509
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

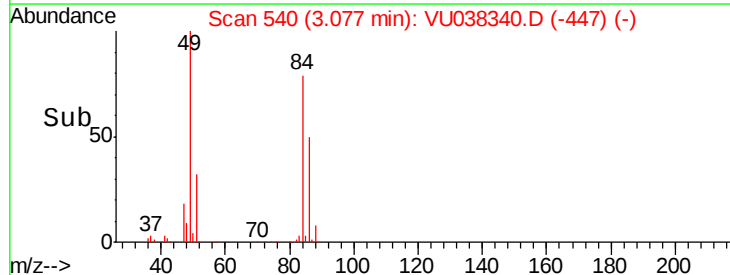
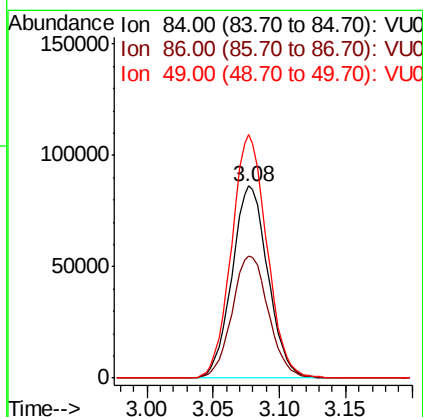
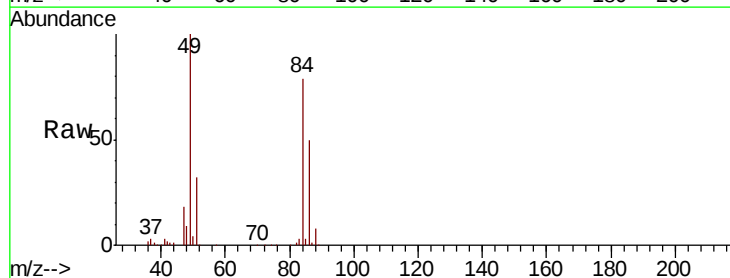
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

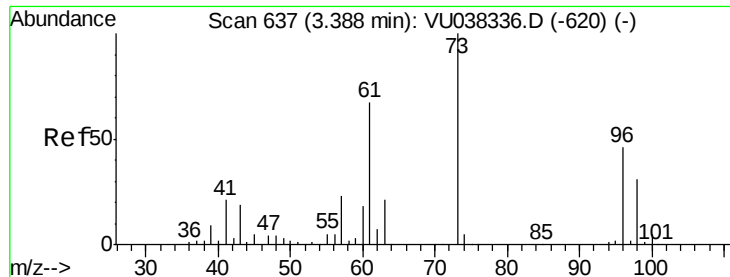
Tot Ion: 43 Resp: 207947
Ion Ratio Lower Upper
43 100
74 23.9 19.1 28.7



#16
Methylene chloride
Concen: 49.023 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion: 84 Resp: 162351
Ion Ratio Lower Upper
84 100
86 63.8 46.1 85.7
49 126.7 90.0 167.2





#17

trans-1,2-Dichloroethene

Concen: 50.529 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

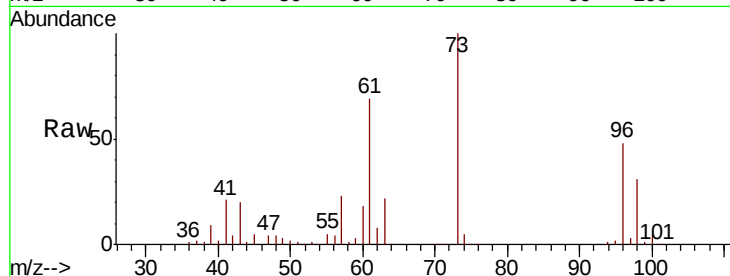
Tot Ion: 96 Resp: 156428

Ion Ratio Lower Upper

96 100

61 145.4 100.4 186.4

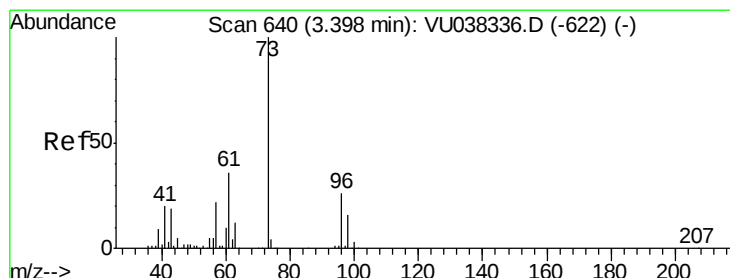
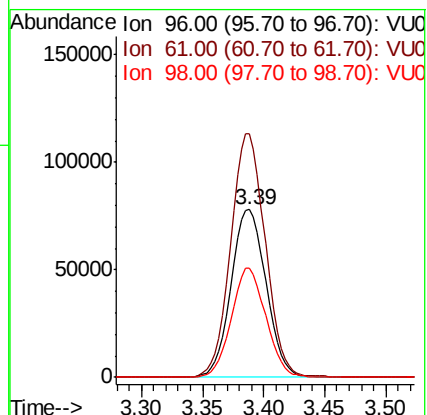
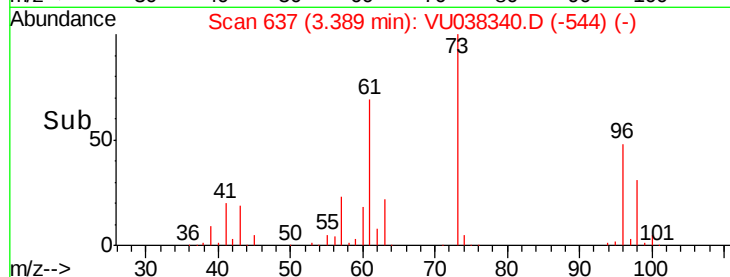
98 65.5 46.1 85.5



Abundance Ion 96.00 (95.70 to 96.70): VU038340.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU038340.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU038340.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 49.436 ug/L

RT: 3.40 min Scan# 640

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

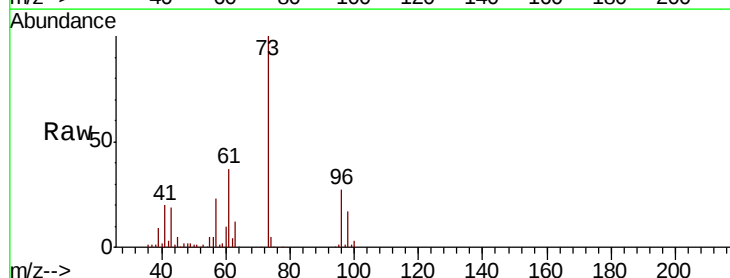
Tgt Ion: 73 Resp: 490765

Ion Ratio Lower Upper

73 100

43 19.3 15.7 23.5

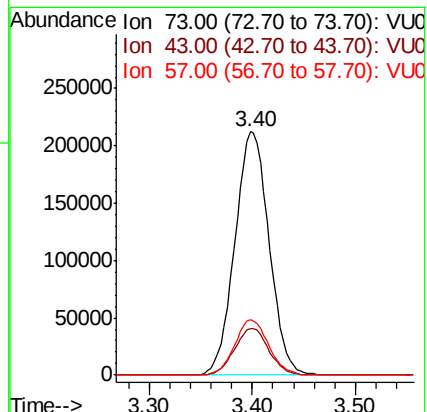
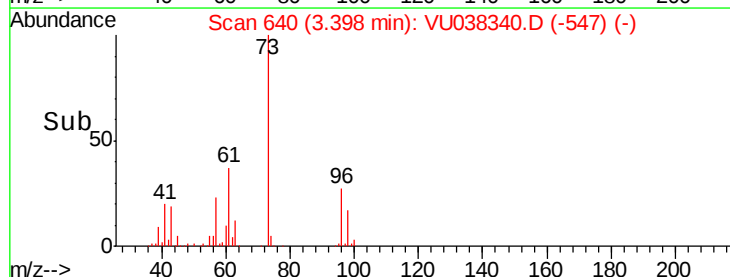
57 22.5 17.7 26.5

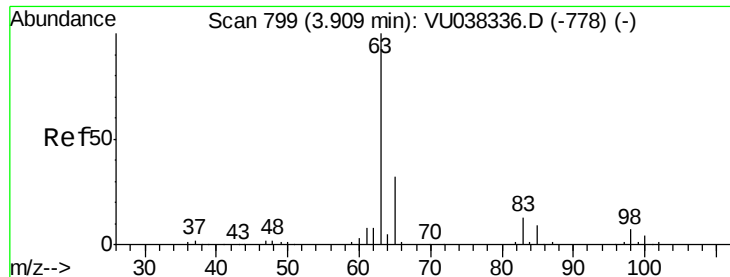


Abundance Ion 73.00 (72.70 to 73.70): VU038340.D (-547) (-)

Ion 43.00 (42.70 to 43.70): VU038340.D (-547) (-)

Ion 57.00 (56.70 to 57.70): VU038340.D (-547) (-)





#19

1,1-Dichloroethane

Concen: 49.417 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

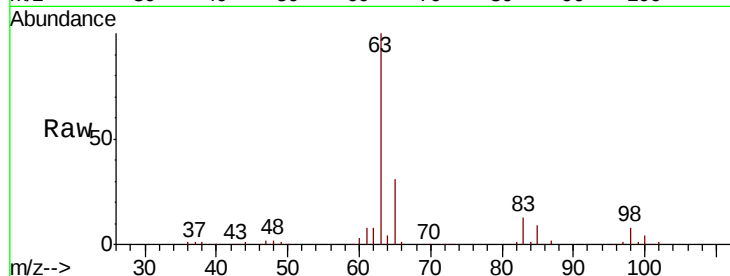
Tot Ion: 63 Resp: 289716

Ion Ratio Lower Upper

63 100

65 31.0 22.2 41.2

83 13.0 9.4 17.4

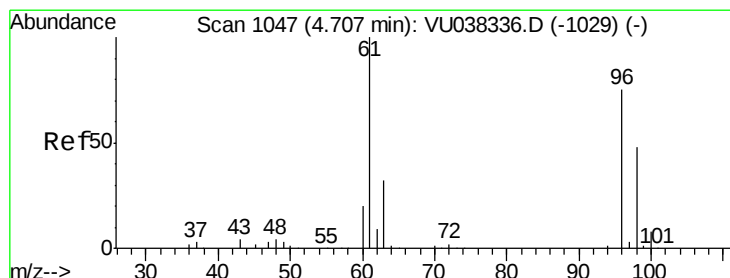
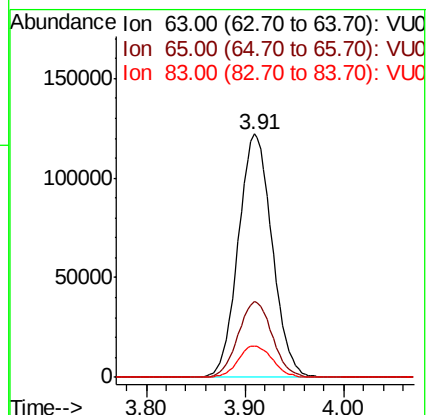
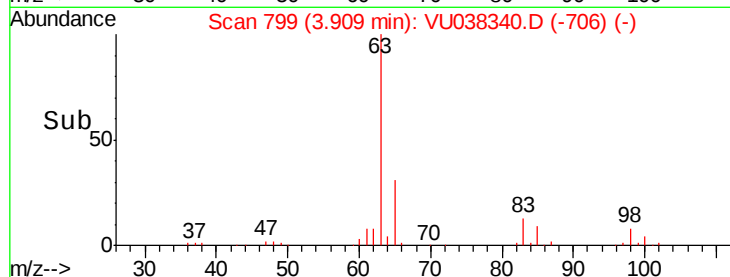


Abundance Ion 63.00 (62.70 to 63.70): VU038336.D (-778) (-)

Ion 65.00 (64.70 to 65.70): VU038336.D (-778) (-)

Ion 83.00 (82.70 to 83.70): VU038336.D (-778) (-)

Time-->



#20

cis-1,2-Dichloroethene

Concen: 50.519 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

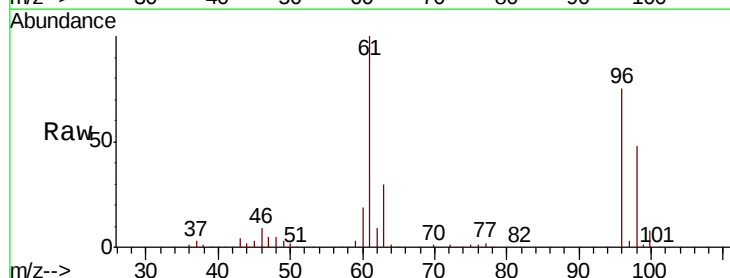
Tgt Ion: 96 Resp: 171327

Ion Ratio Lower Upper

96 100

61 132.9 93.4 173.4

68 0.0 0.0 0.0

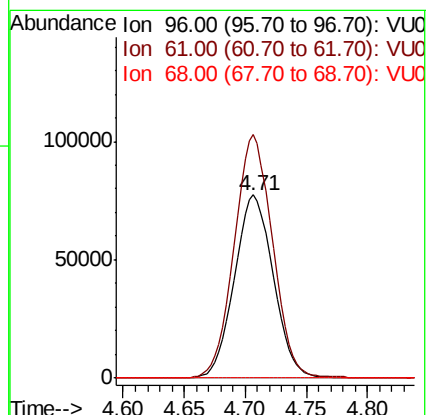
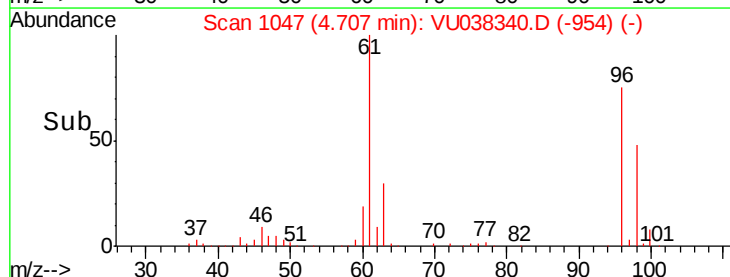


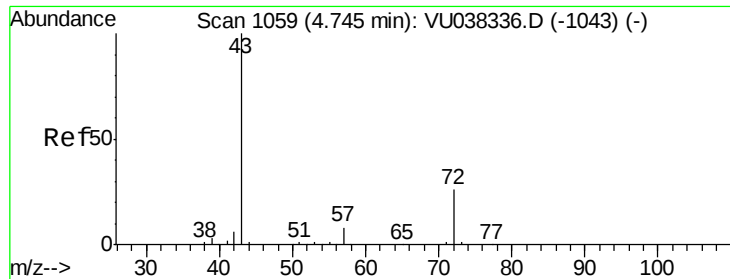
Abundance Ion 96.00 (95.70 to 96.70): VU038336.D (-1029) (-)

Ion 61.00 (60.70 to 61.70): VU038336.D (-1029) (-)

Ion 68.00 (67.70 to 68.70): VU038336.D (-1029) (-)

Time-->





#22

2-Butanone

Concen: 104.471 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

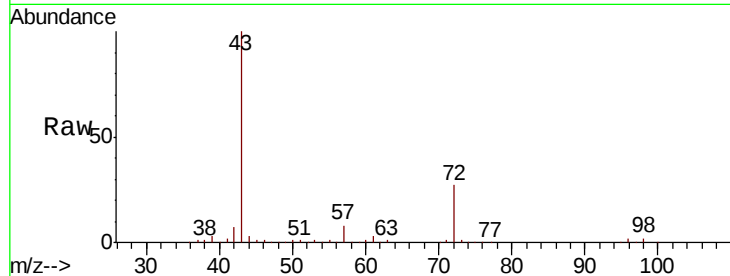
VSTD05037

Tot Ion: 43 Resp: 345062

Ion Ratio Lower Upper

43 100

72 27.8 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VU038340.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU038340.D (-966) (-)

4.75

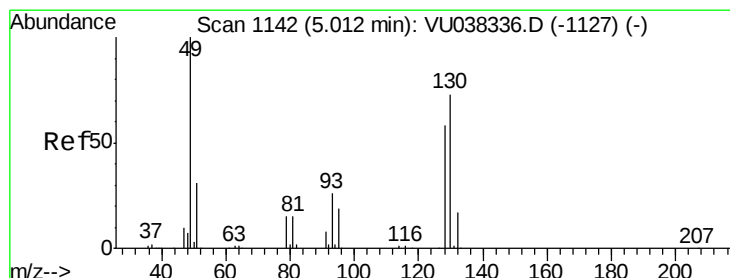
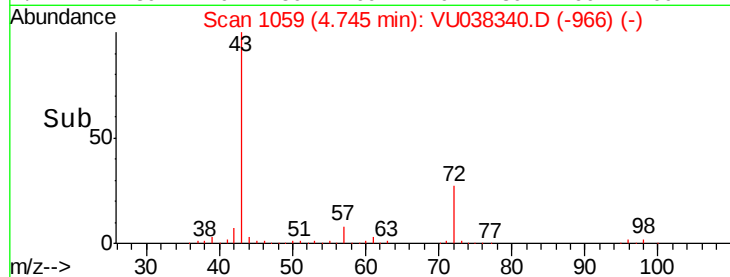
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 49.075 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Tgt Ion:128 Resp: 82395

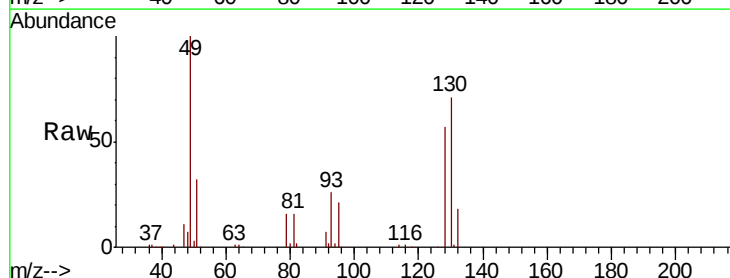
Ion Ratio Lower Upper

128 100

49 176.0 120.1 223.1

130 125.8 88.1 163.5

51 56.7 41.8 62.8



Abundance Ion 128.00 (127.70 to 128.70): VU038340.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU038340.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU038340.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU038340.D (-1049) (-)

5.01

100000

80000

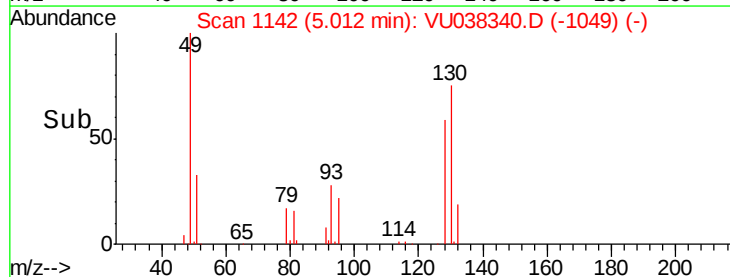
60000

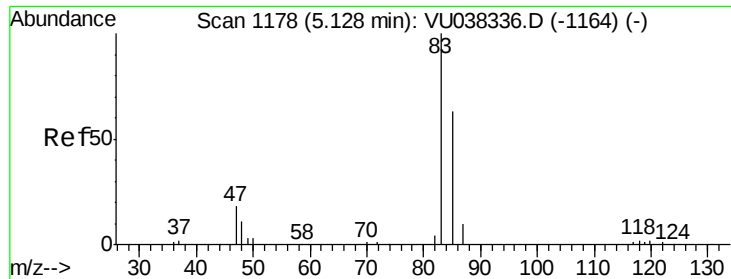
40000

20000

0

Time-->

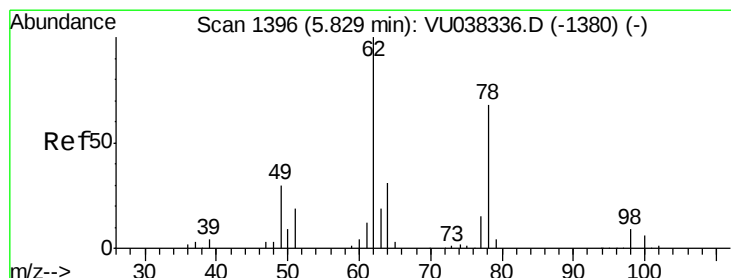
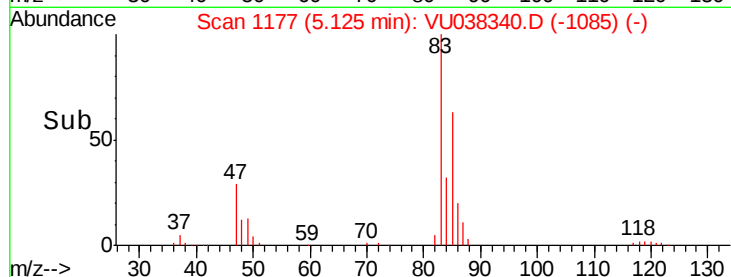
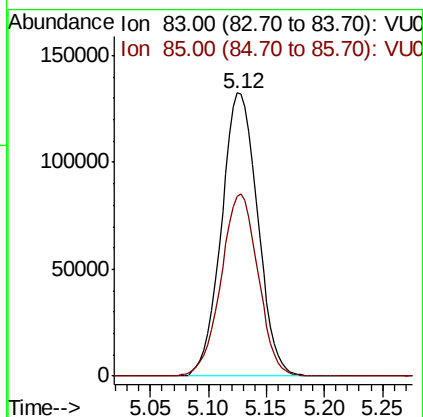
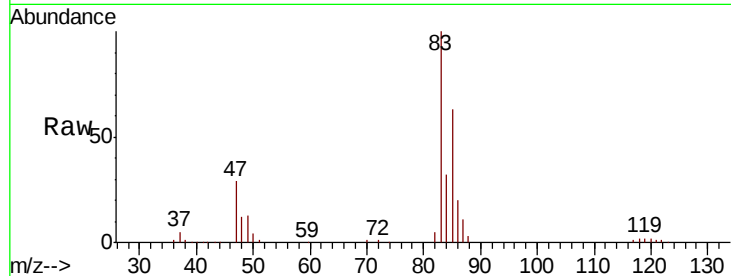




#25
Chloroform
Concen: 47.715 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

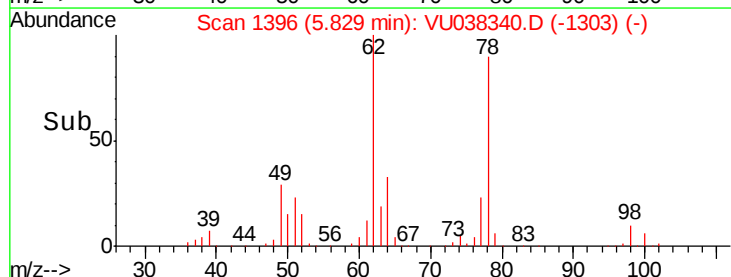
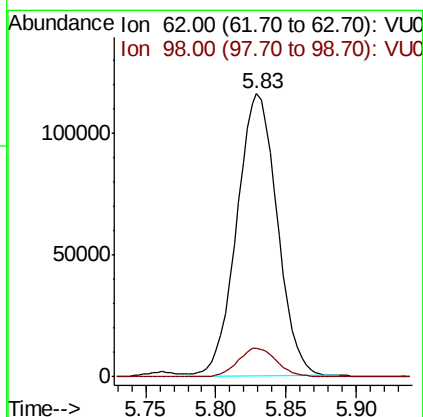
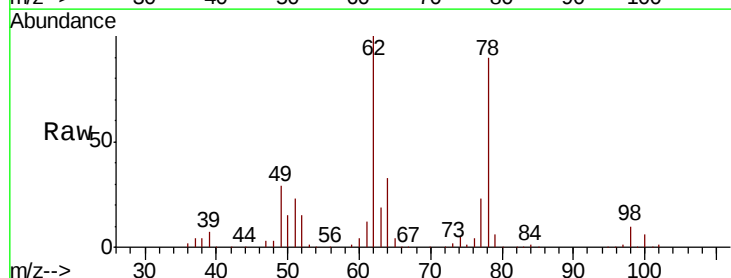
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

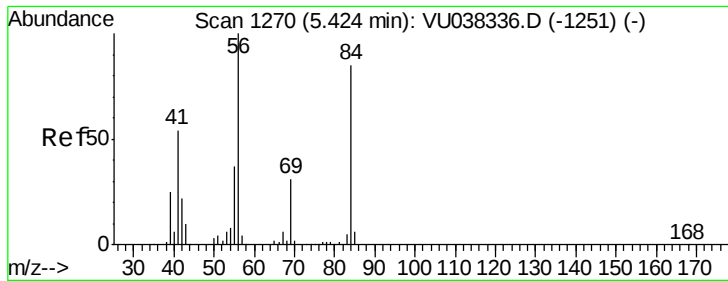
Tot Ion: 83 Resp: 287678
Ion Ratio Lower Upper
83 100
85 63.4 44.9 83.5



#27
1,2-Dichloroethane
Concen: 47.780 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion: 62 Resp: 233247
Ion Ratio Lower Upper
62 100
98 10.3 7.5 11.3

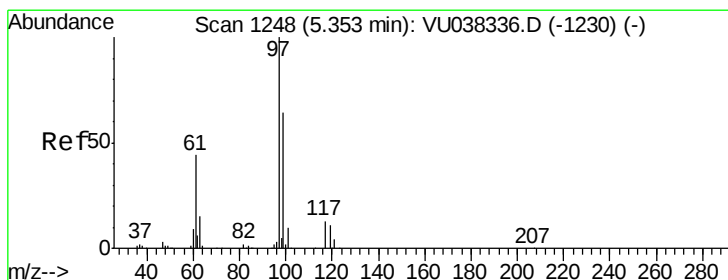
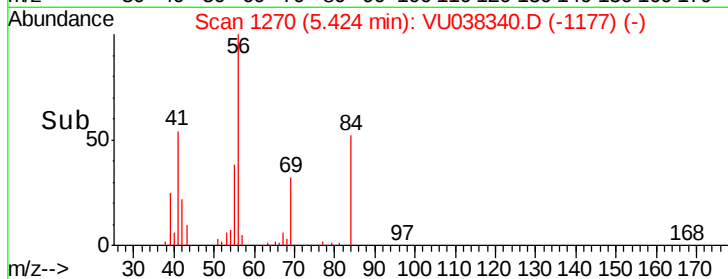
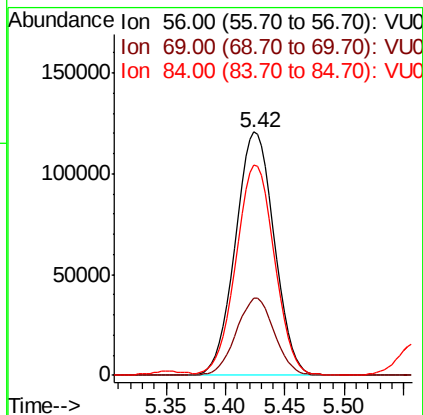
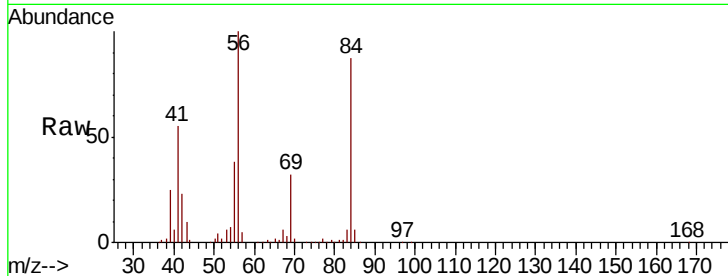




#29
Cyclohexane
Concen: 51.456 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

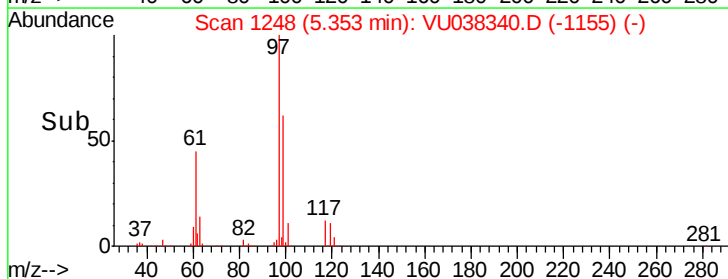
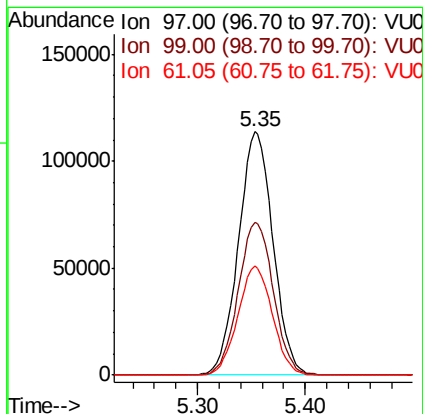
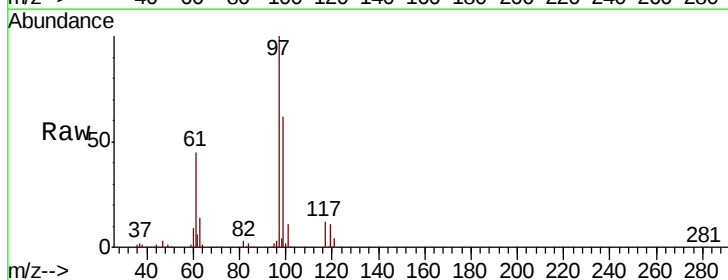
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

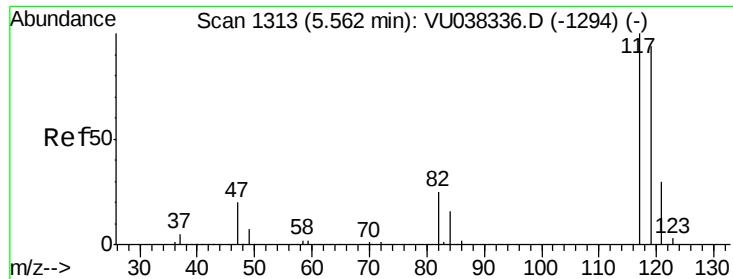
Tot Ion	Ratio	Lower	Upper
56	100		
69	31.1	24.7	37.1
84	86.0	68.2	102.4



#30
1,1,1-Trichloroethane
Concen: 50.243 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.2	76.8
61	44.8	35.9	53.9





#31

Carbon tetrachloride

Concen: 50.646 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

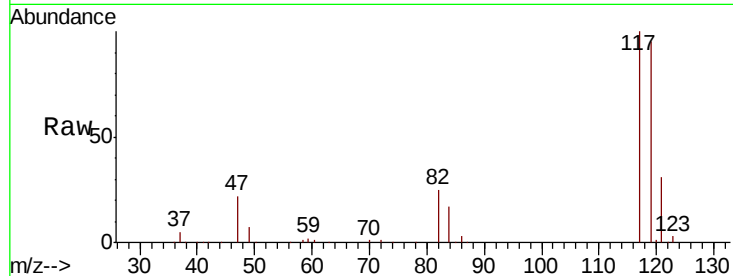
VSTD05037

Tot Ion:117 Resp: 212739

Ion Ratio Lower Upper

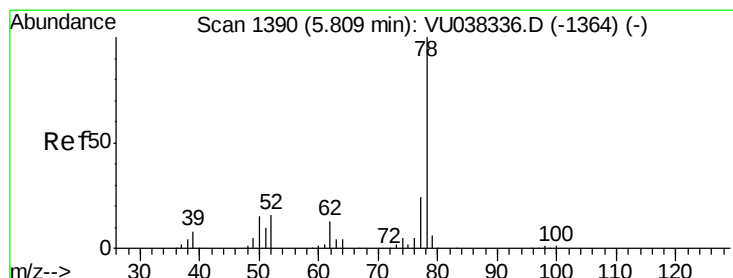
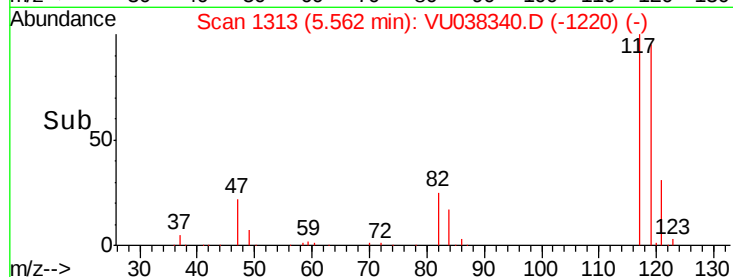
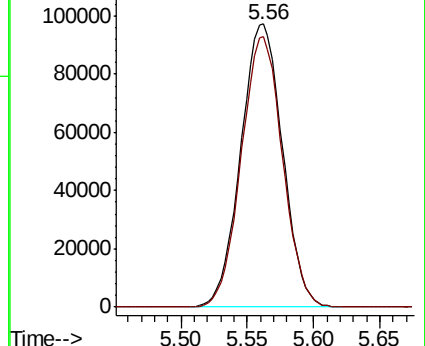
117 100

119 94.5 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: 50.328 ug/L

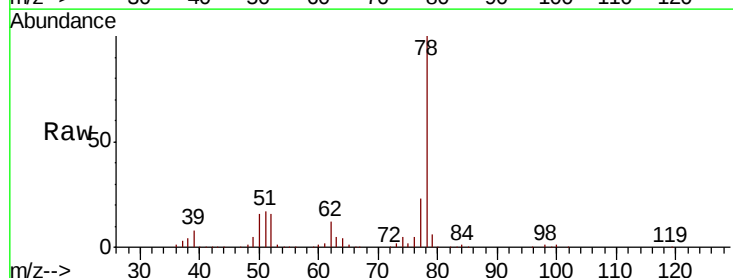
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

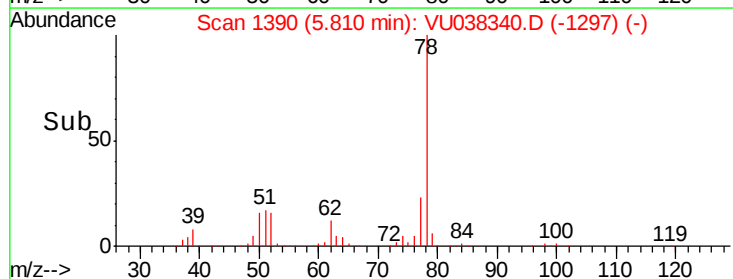
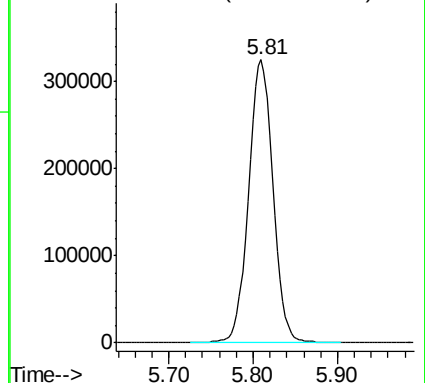
Lab File: VU038340.D

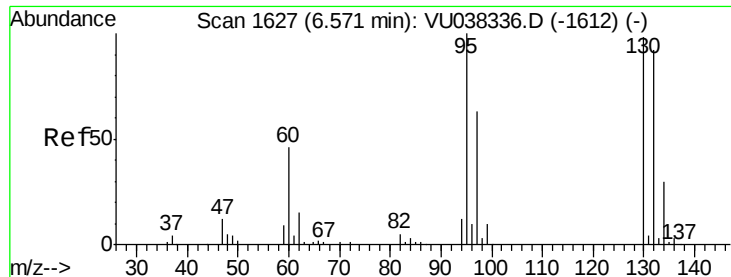
Acq: 28 May 2020 12:05

Tgt Ion: 78 Resp: 655148



Abundance Ion 78.00 (77.70 to 78.70): VU0

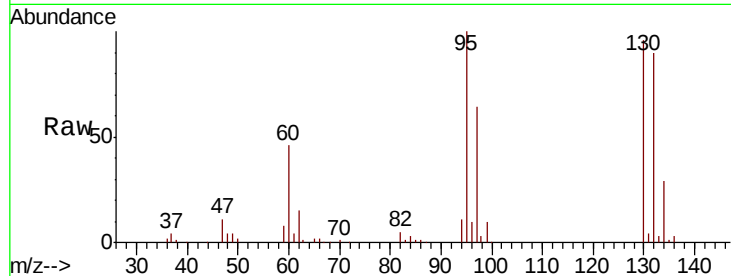




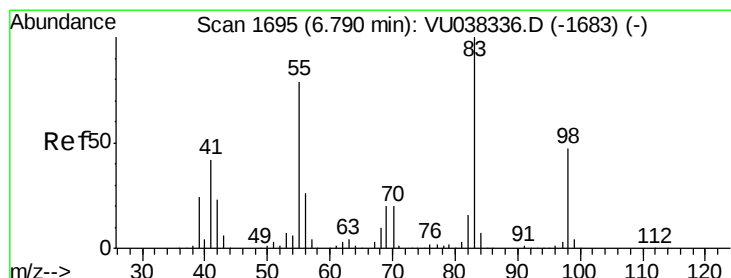
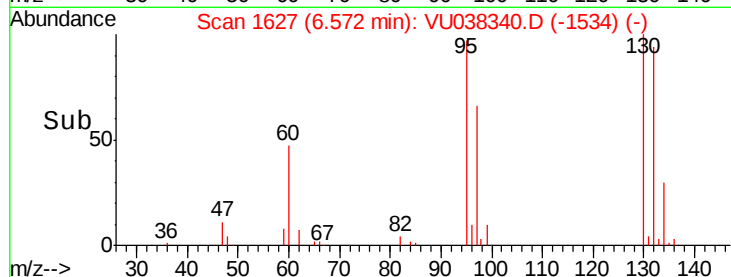
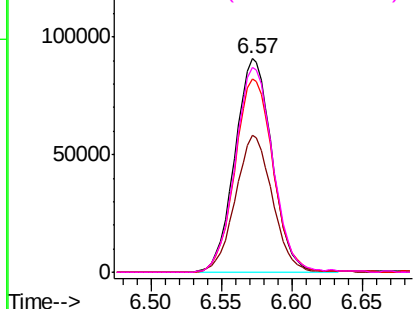
#34
 Trichloroethene
 Concen: 50.357 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tot Ion: 95 Resp: 167721
 Ion Ratio Lower Upper
 95 100
 97 63.9 44.3 82.3
 132 90.4 64.7 120.1
 130 96.1 68.5 127.1

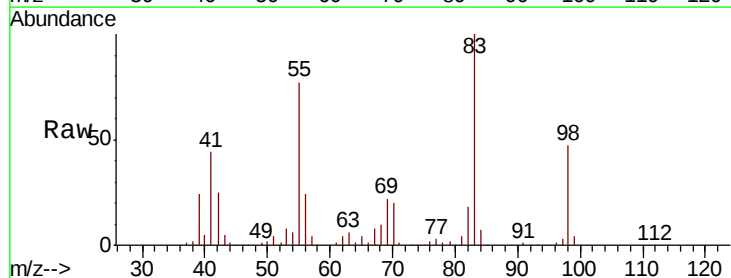


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

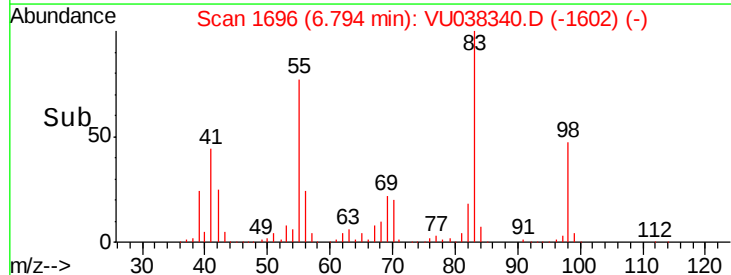
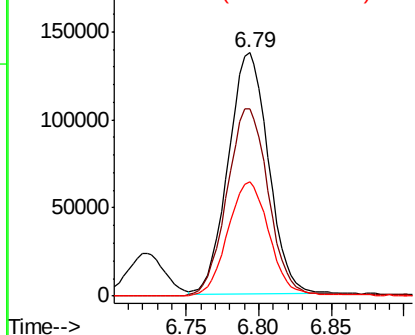


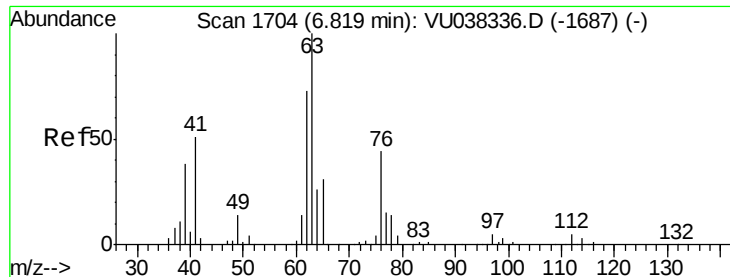
#35
 Methylcyclohexane
 Concen: 50.395 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion: 83 Resp: 263524
 Ion Ratio Lower Upper
 83 100
 55 80.9 63.0 94.4
 98 48.7 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

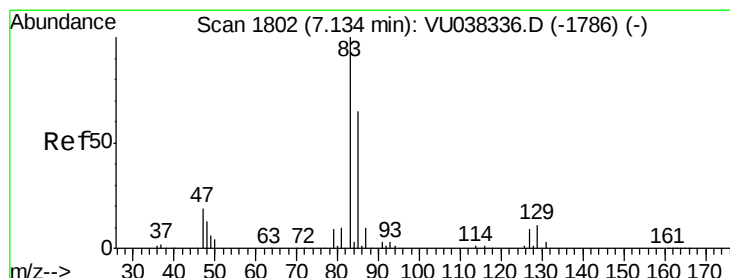
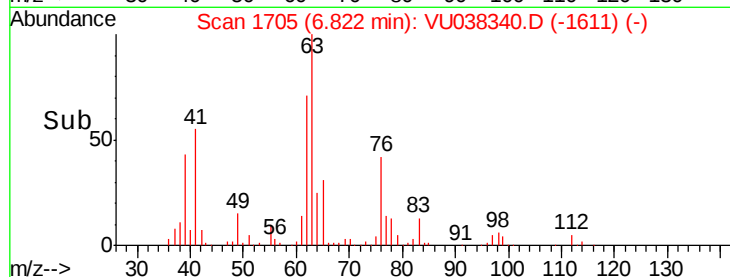
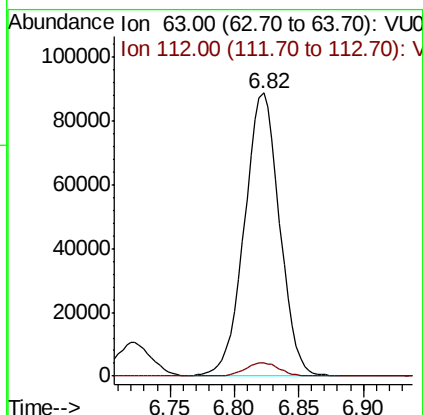
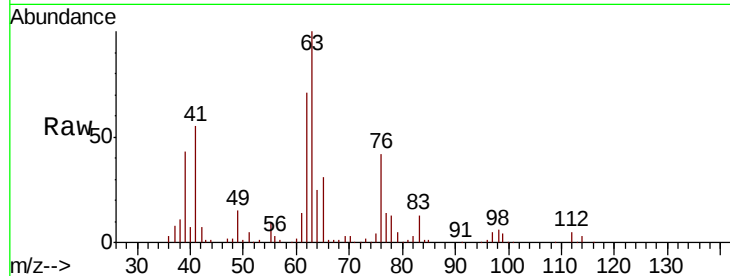




#37
 1,2-Dichloropropane
 Concen: 49.701 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

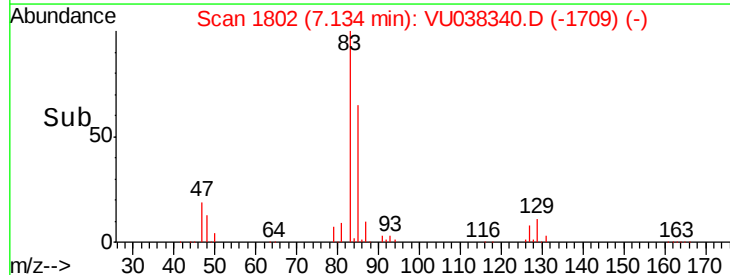
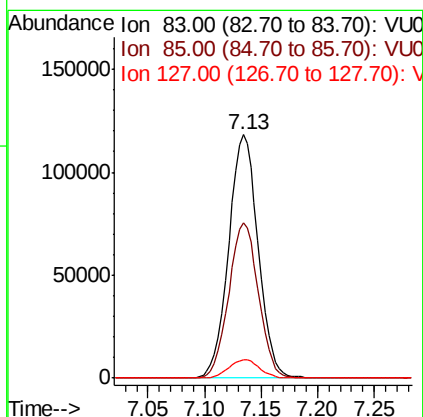
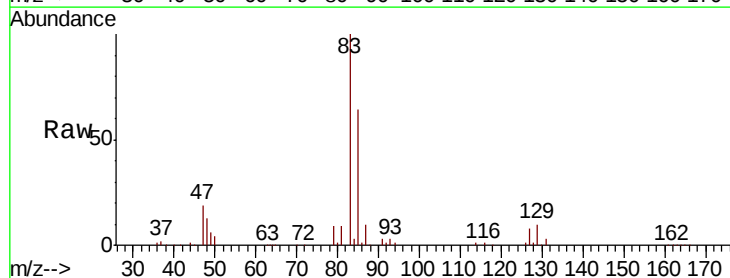
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

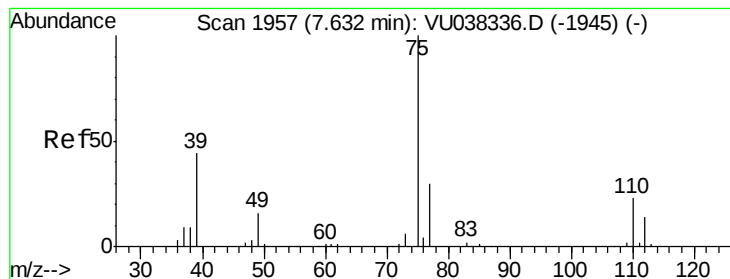
Tot Ion: 63 Resp: 167794
 Ion Ratio Lower Upper
 63 100
 112 4.5 3.6 5.4



#38
 Bromodichloromethane
 Concen: 49.535 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion: 83 Resp: 214312
 Ion Ratio Lower Upper
 83 100
 85 63.8 45.5 84.5
 127 7.7 7.0 10.4



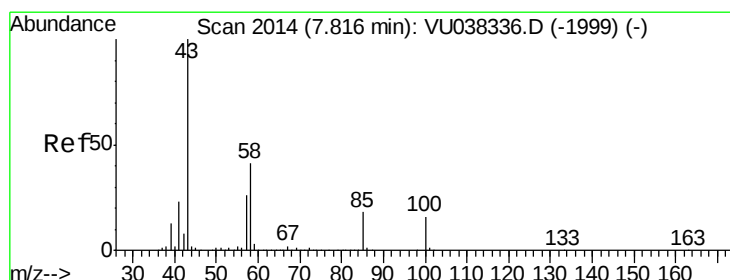
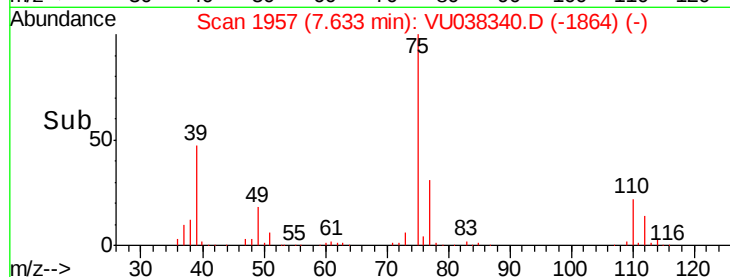
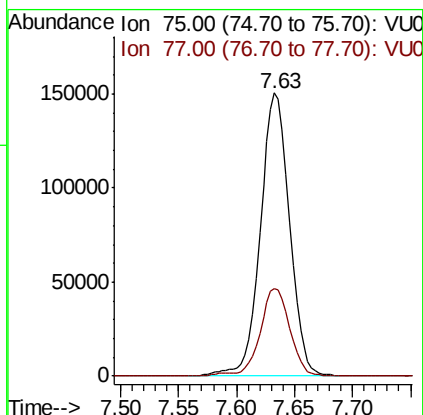
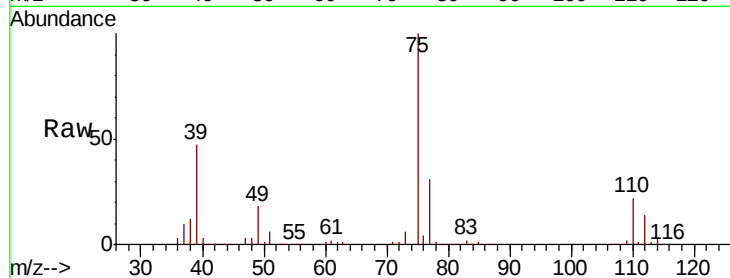


#39

cis-1,3-Dichloropropene
Concen: 49.124 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

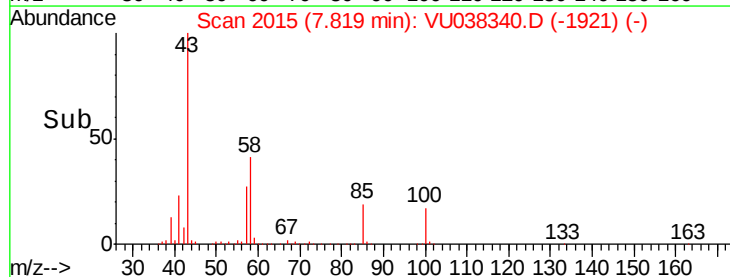
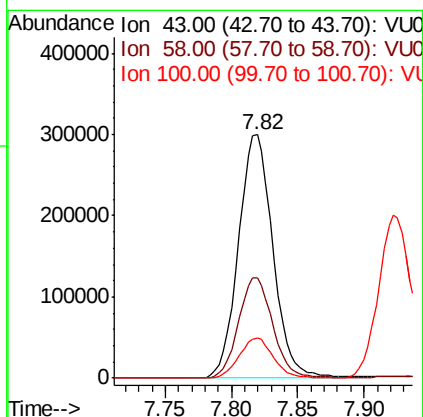
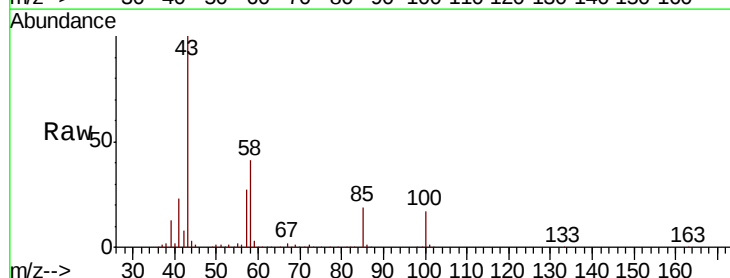
Tot Ion: 75 Resp: 263905
Ion Ratio Lower Upper
75 100
77 31.1 21.6 40.0

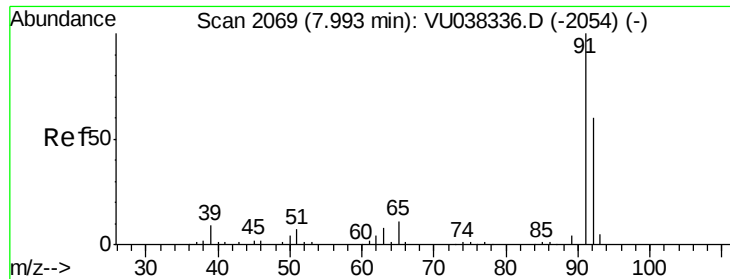


#40

4-Methyl-2-pentanone
Concen: 100.766 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion: 43 Resp: 541030
Ion Ratio Lower Upper
43 100
58 41.2 32.6 48.8
100 16.4 12.9 19.3





#42

Toluene

Concen: 50.521 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

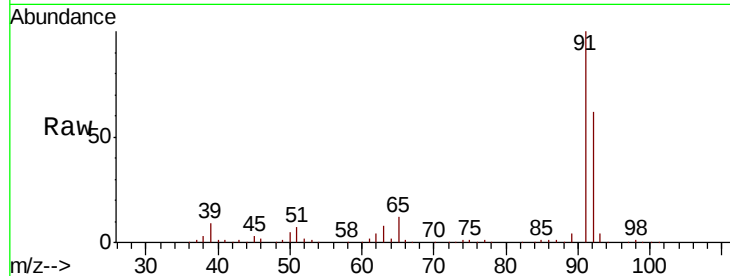
VSTD05037

Tot Ion: 91 Resp: 690456

Ion Ratio Lower Upper

91 100

92 61.5 42.0 78.0



Abundance Ion 91.00 (90.70 to 91.70): VU038336.D (-2054) (-)

Ion 92.00 (91.70 to 92.70): VU038336.D (-2054) (-)

7.99

400000

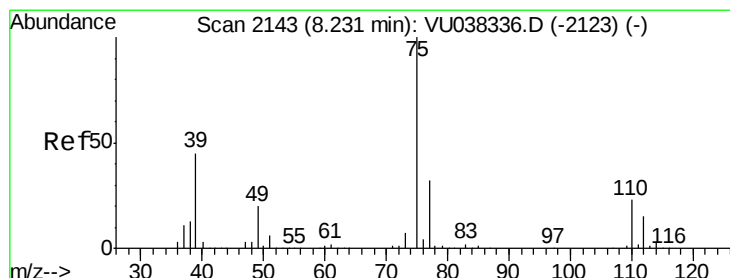
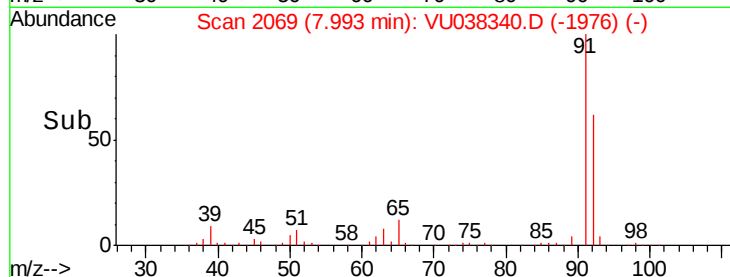
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 50.746 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU038340.D

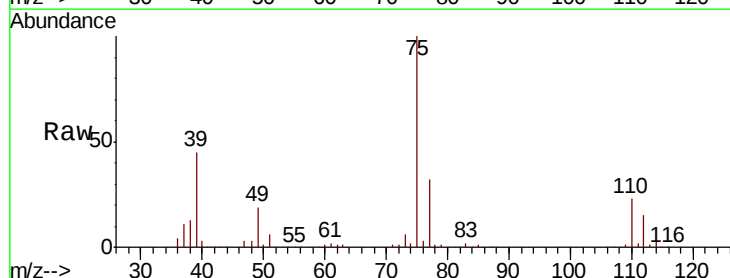
Acq: 28 May 2020 12:05

Tgt Ion: 75 Resp: 255191

Ion Ratio Lower Upper

75 100

77 32.3 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VU038336.D (-2123) (-)

Ion 77.00 (76.70 to 77.70): VU038336.D (-2123) (-)

8.23

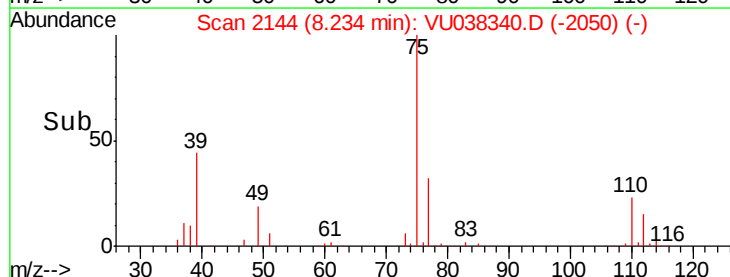
150000

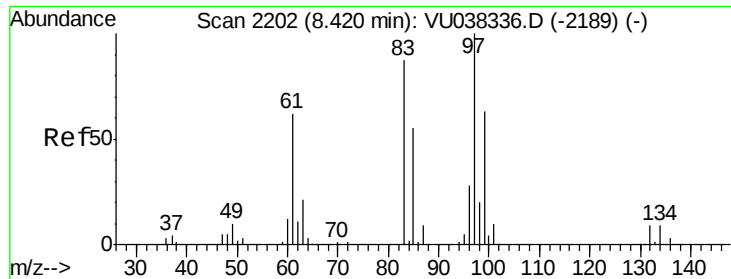
100000

50000

0

Time-->

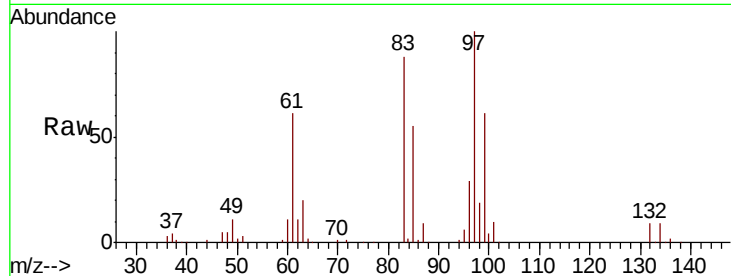




#45
 1,1,2-Trichloroethane
 Concen: 50.634 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

Tot Ion:	97	Resp:	162221
Ion	Ratio	Lower	Upper
97	100		
99	60.8	44.0	81.8
83	87.6	60.8	113.0
85	55.5	38.1	70.9



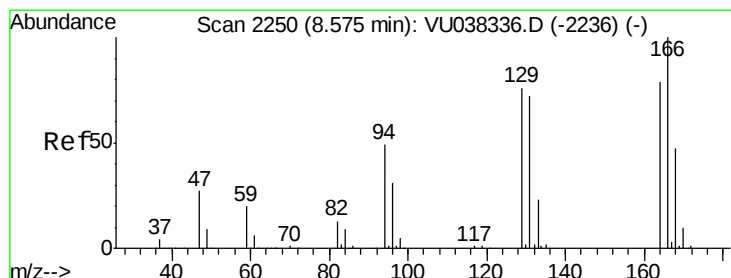
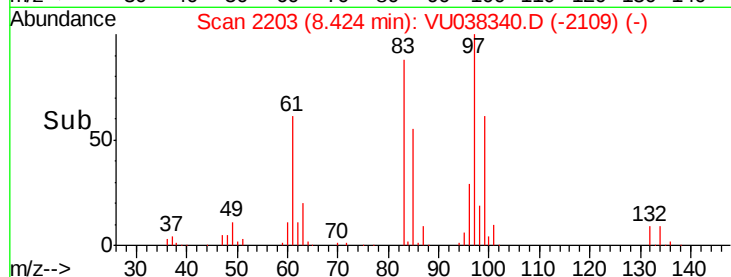
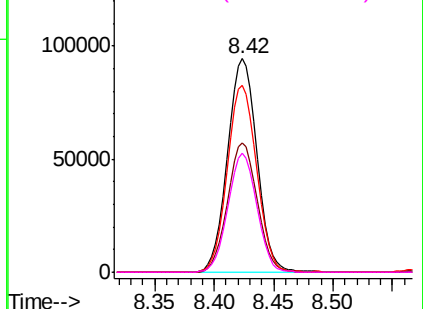
Abundance

Ion 97.00 (96.70 to 97.70): VU038336.D (-2189) (-)

Ion 99.00 (98.70 to 99.70): VU038336.D (-2189) (-)

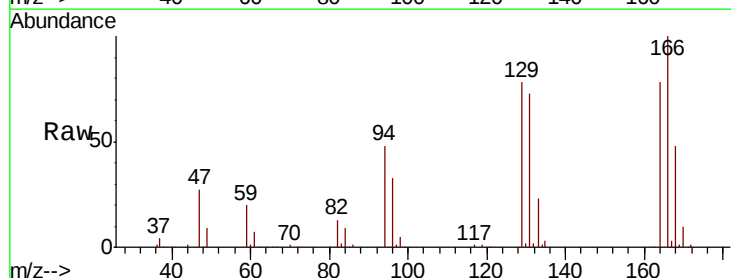
Ion 83.00 (82.70 to 83.70): VU038336.D (-2189) (-)

Ion 85.00 (84.70 to 85.70): VU038336.D (-2189) (-)



#46
 Tetrachloroethene
 Concen: 50.446 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion:	164	Resp:	122834
Ion	Ratio	Lower	Upper
164	100		
129	99.2	67.2	124.8
131	92.7	63.4	117.8
166	127.6	88.5	164.4



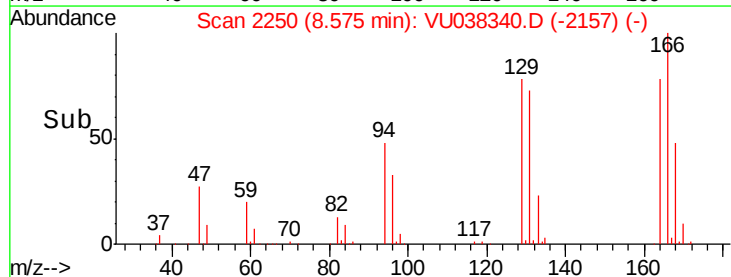
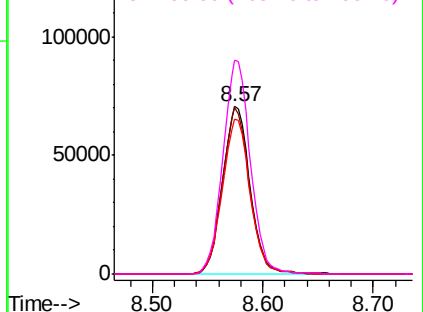
Abundance

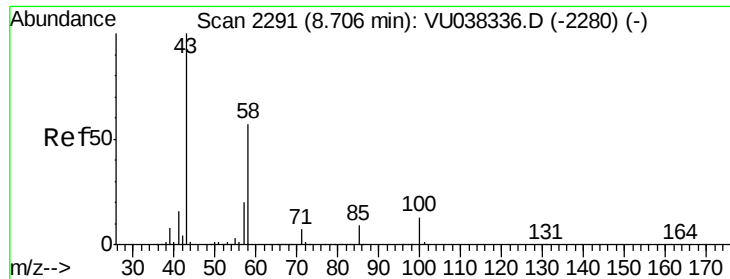
Ion 164.00 (163.70 to 164.70): VU038336.D (-2236) (-)

Ion 129.00 (128.70 to 129.70): VU038336.D (-2236) (-)

Ion 131.00 (130.70 to 131.70): VU038336.D (-2236) (-)

Ion 166.00 (165.70 to 166.70): VU038336.D (-2236) (-)

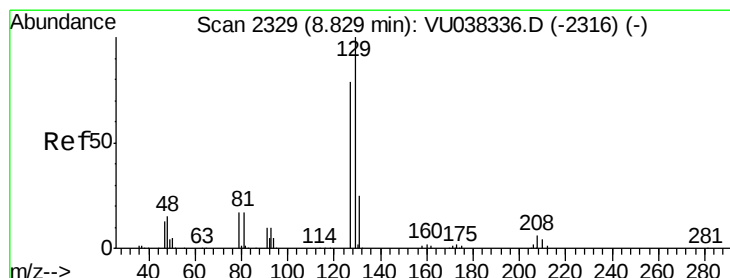
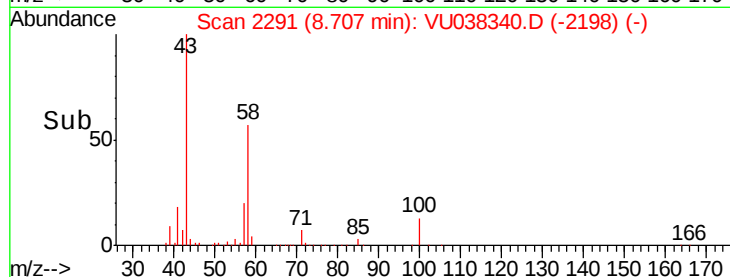
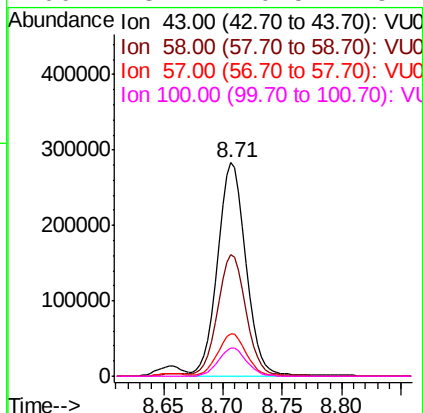
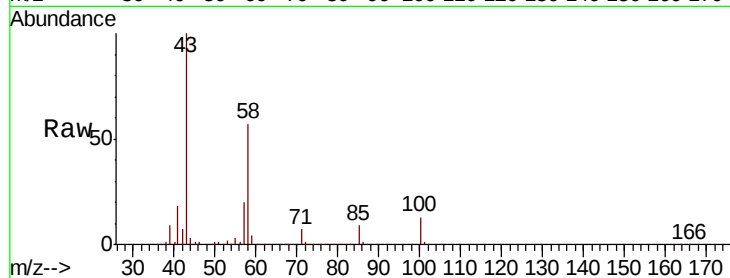




#48
2-Hexanone
Concen: 103.570 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

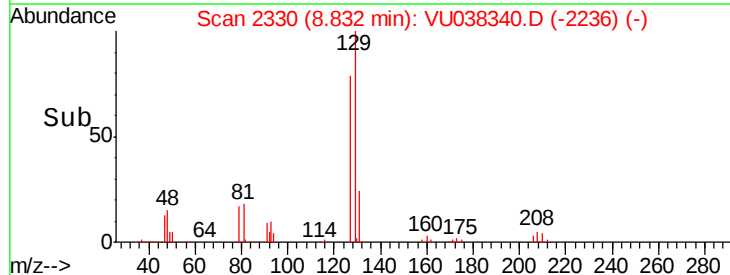
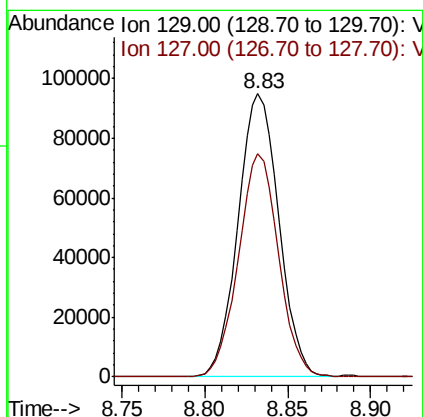
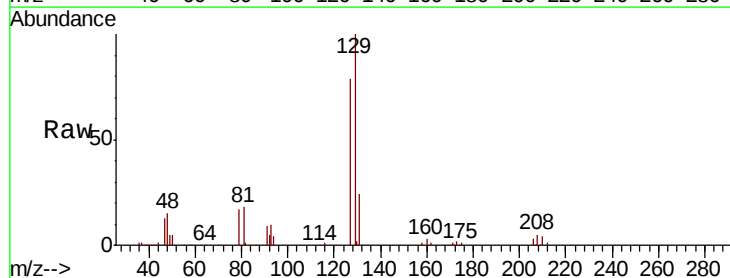
Instrument :
MSVOA_U
ClientSampleId :
VSTD05037

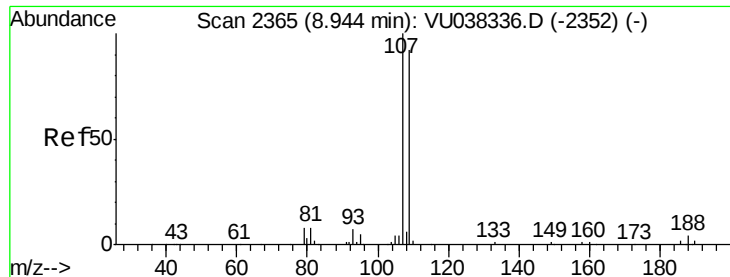
Tot Ion:	43	Resp:	469514
Ion	Ratio	Lower	Upper
43	100		
58	56.6	45.5	68.3
57	19.8	16.3	24.5
100	13.2	10.5	15.7



#49
Dibromochloromethane
Concen: 50.081 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU038340.D
Acq: 28 May 2020 12:05

Tgt Ion:	129	Resp:	162454
Ion	Ratio	Lower	Upper
129	100		
127	78.9	55.2	102.6

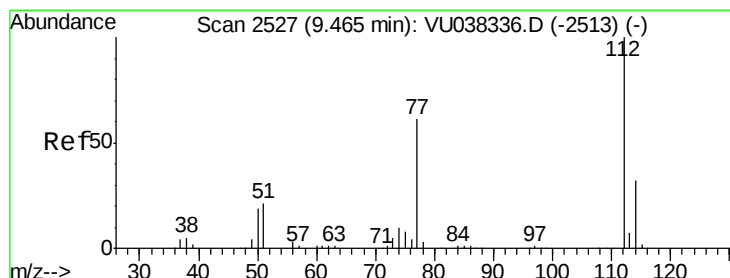
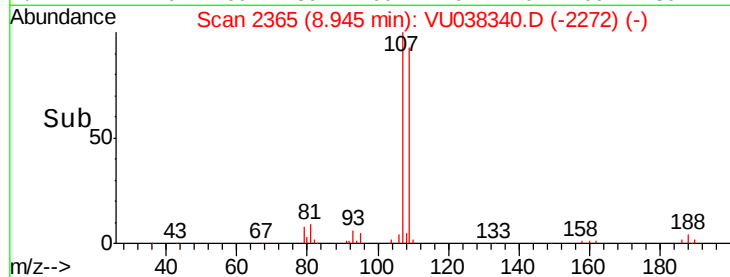
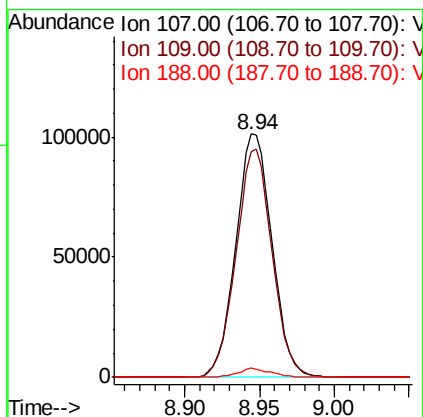
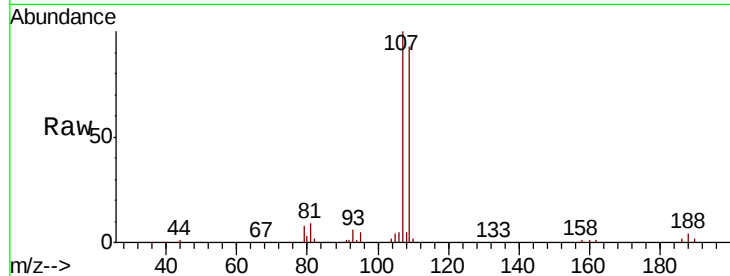




#50
 1,2-Dibromoethane
 Concen: 49.750 ug/L
 RT: 8.94 min Scan# 2365
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

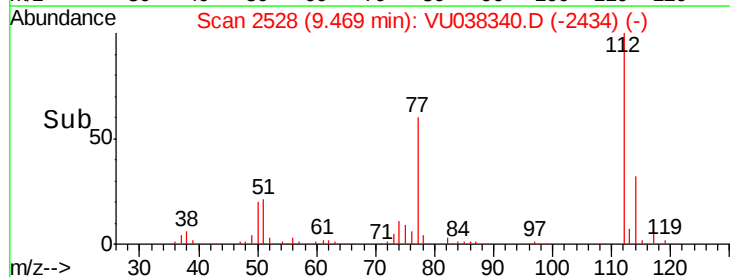
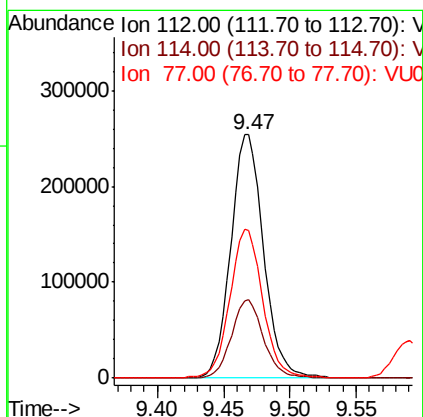
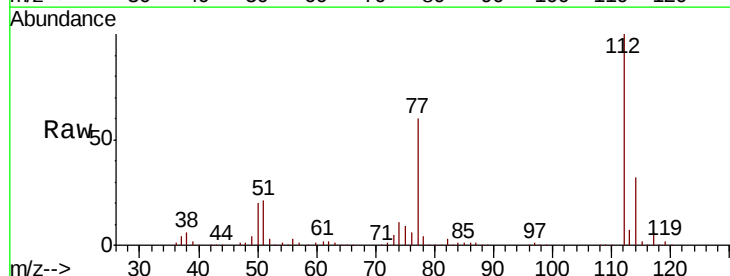
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

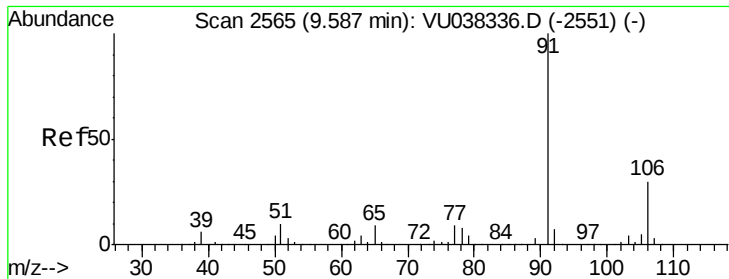
Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	64.3	119.5
188	3.6	2.8	4.2



#51
 Chlorobenzene
 Concen: 49.781 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	22.6	42.0
77	60.4	48.8	73.2





#52

Ethylbenzene

Concen: 50.491 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

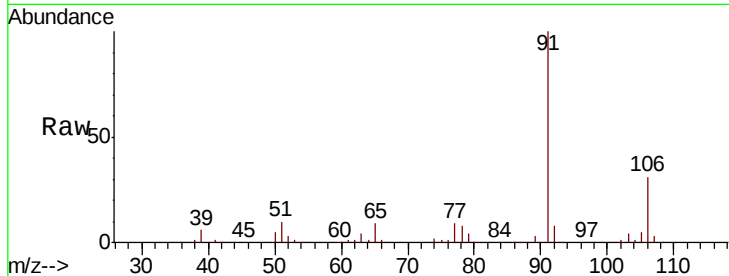
VSTD05037

Tot Ion: 91 Resp: 773176

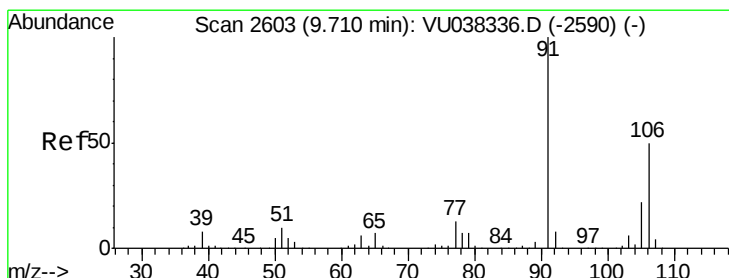
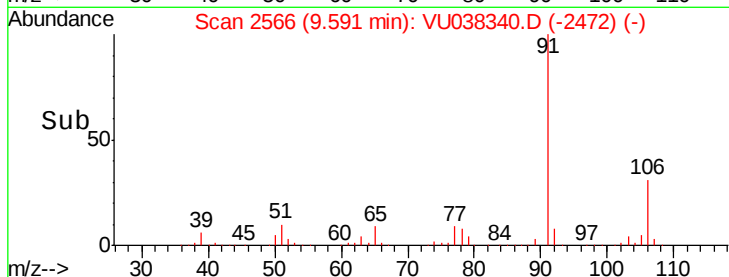
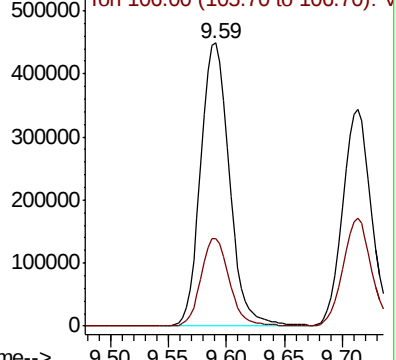
Ion Ratio Lower Upper

91 100

106 31.1 21.2 39.4



Abundance Ion 91.00 (90.70 to 91.70): VU038336.D (-2551) (-)



#53

m,p-Xylene

Concen: 50.994 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU038340.D

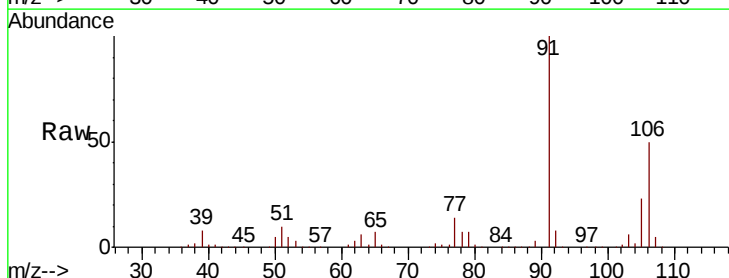
Acq: 28 May 2020 12:05

Tgt Ion: 106 Resp: 298622

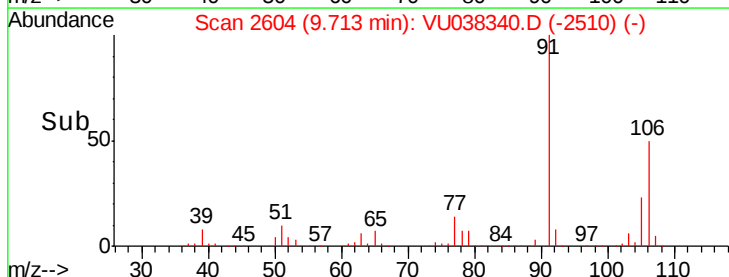
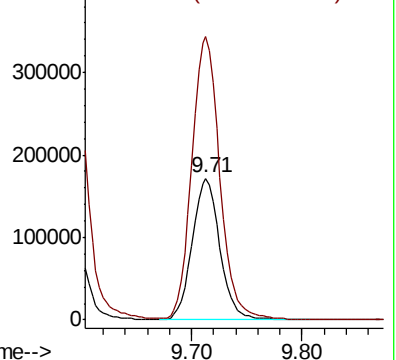
Ion Ratio Lower Upper

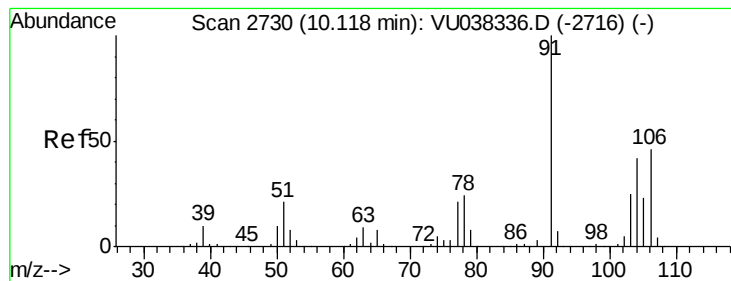
106 100

91 199.5 140.8 261.4



Abundance Ion 106.00 (105.70 to 106.70): VU038336.D (-2590) (-)





#54

o-xylene

Concen: 50.614 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

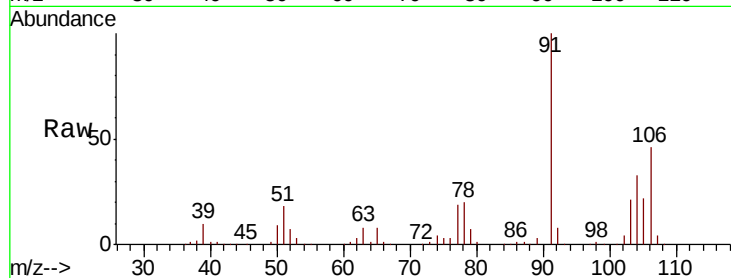
VSTD05037

Tot Ion:106 Resp: 288168

Ion Ratio Lower Upper

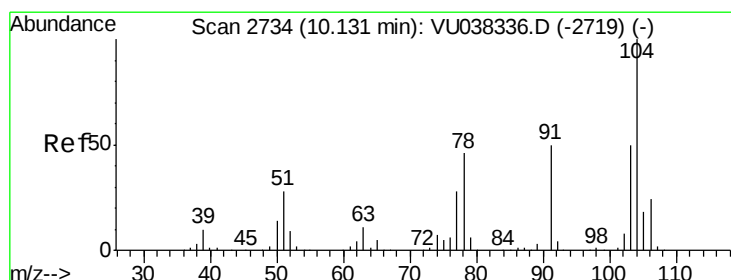
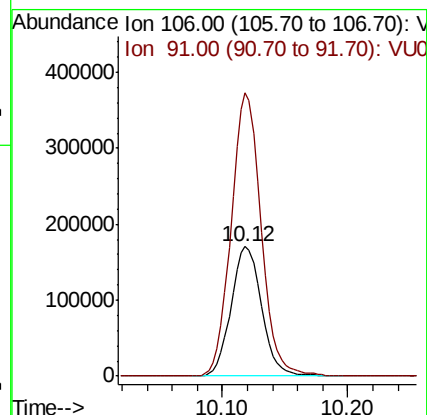
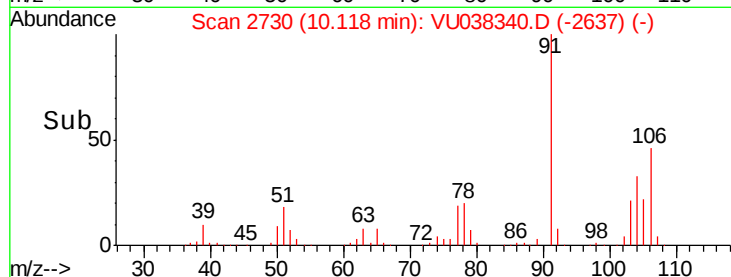
106 100

91 218.2 151.3 280.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.396 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU038340.D

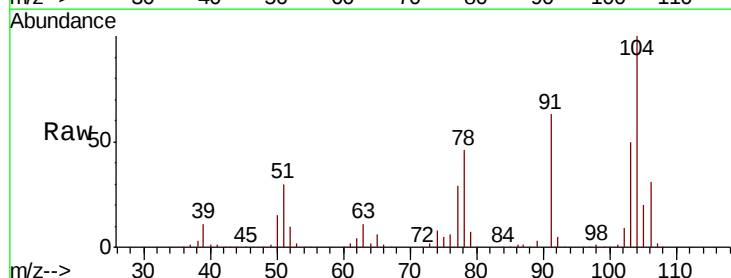
Acq: 28 May 2020 12:05

Tgt Ion:104 Resp: 502932

Ion Ratio Lower Upper

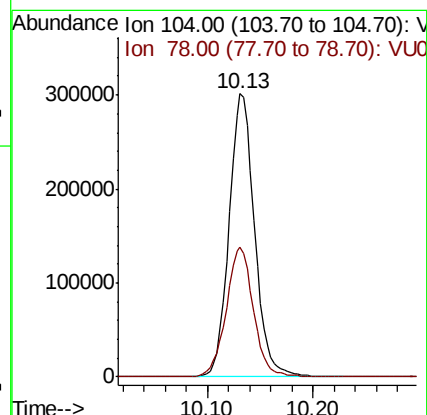
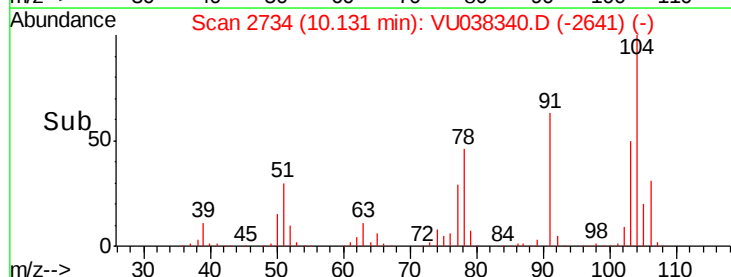
104 100

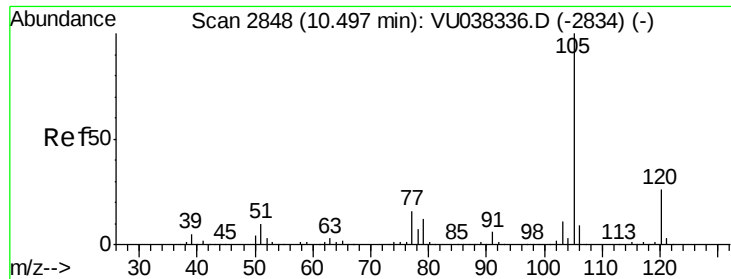
78 46.0 32.1 59.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.743 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

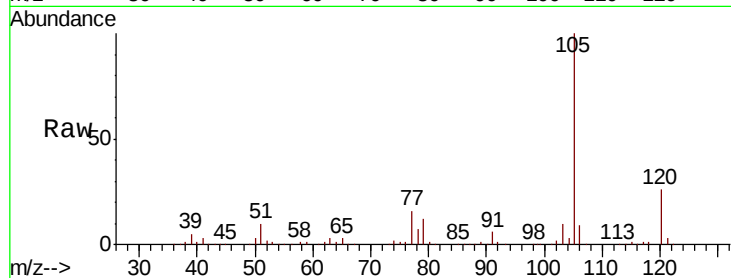
Tot Ion:105 Resp: 754976

Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

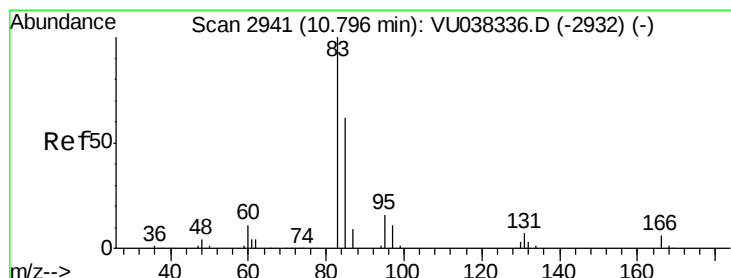
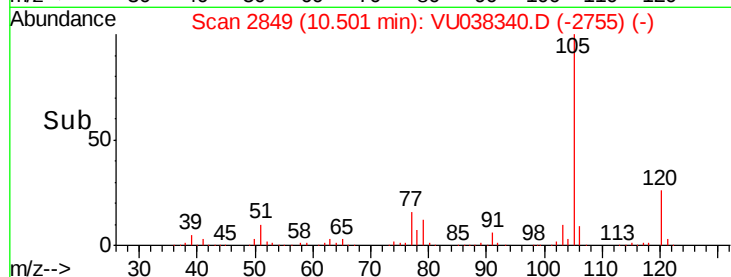
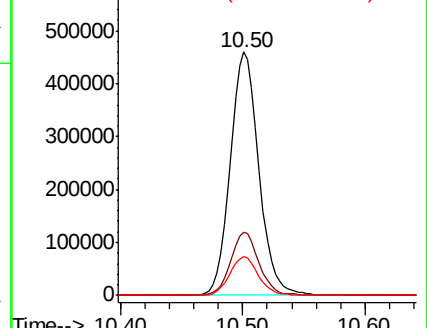
77 16.0 12.8 19.2



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: 49.999 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

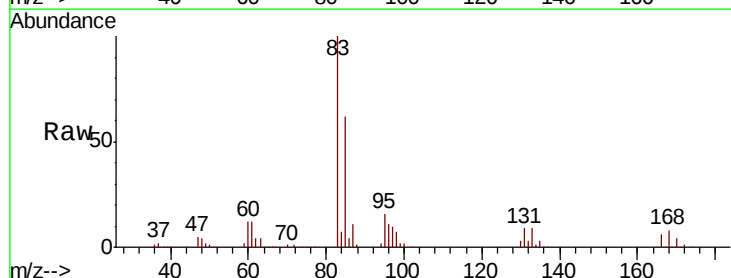
Tgt Ion: 83 Resp: 274126

Ion Ratio Lower Upper

83 100

85 62.4 45.5 84.5

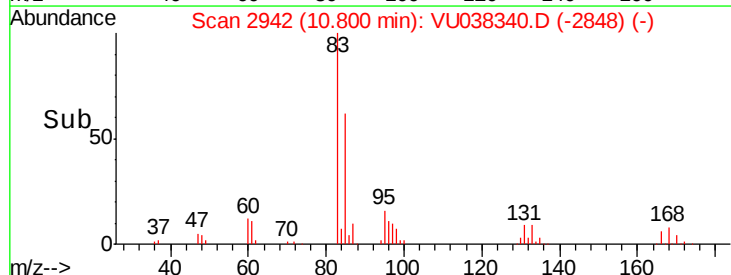
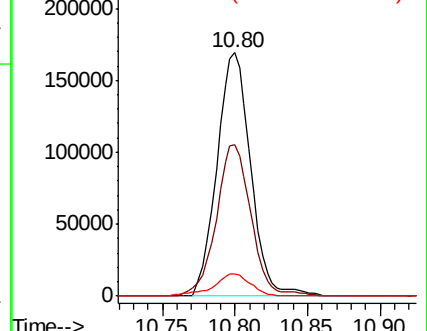
131 9.2 7.3 10.9

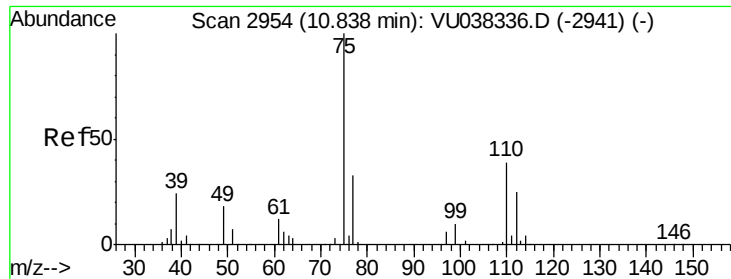


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

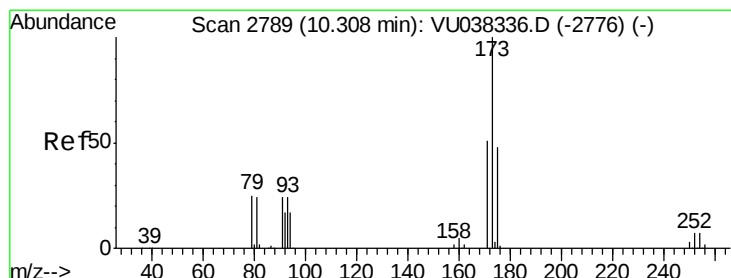
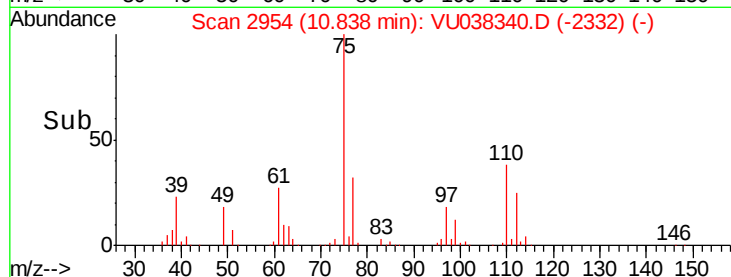
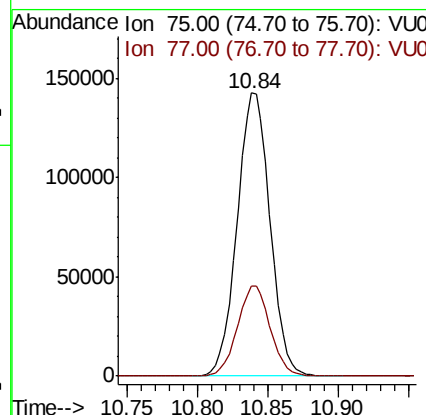
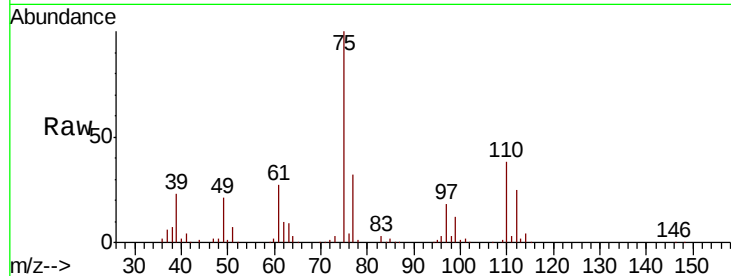




#59
 1,2,3-Trichloropropane
 Concen: 49.332 ug/L
 RT: 10.84 min Scan# 2954
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

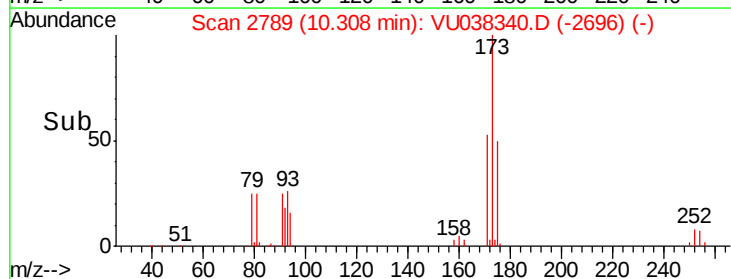
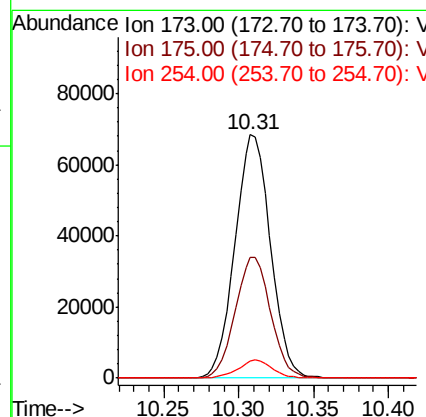
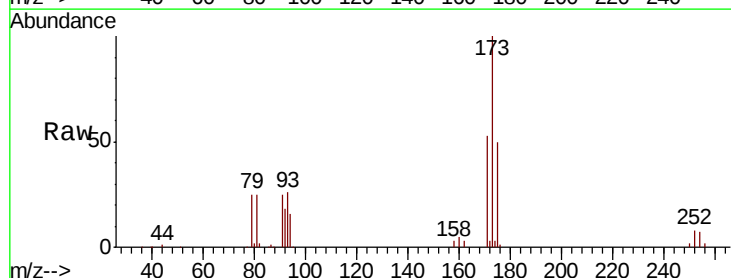
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

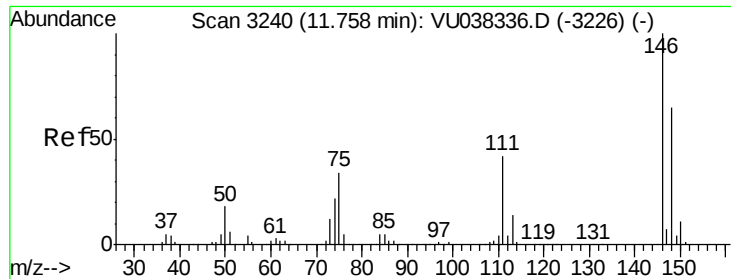
Tot Ion: 75 Resp: 232898
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.8 38.8



#61
 Bromoform
 Concen: 48.271 ug/L
 RT: 10.31 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion: 173 Resp: 113293
 Ion Ratio Lower Upper
 173 100
 175 49.5 39.0 58.4
 254 7.1 5.3 7.9

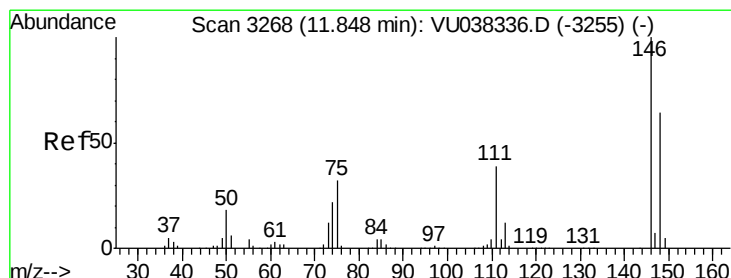
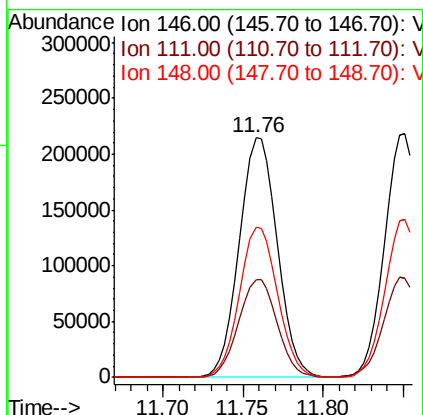
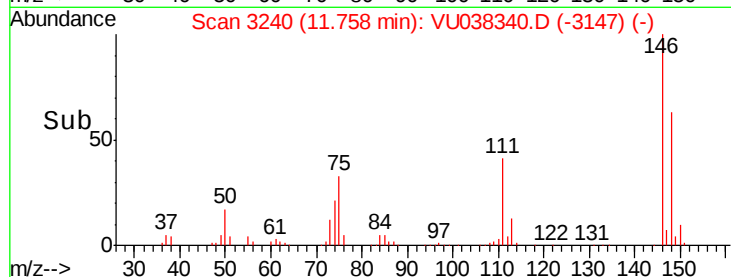
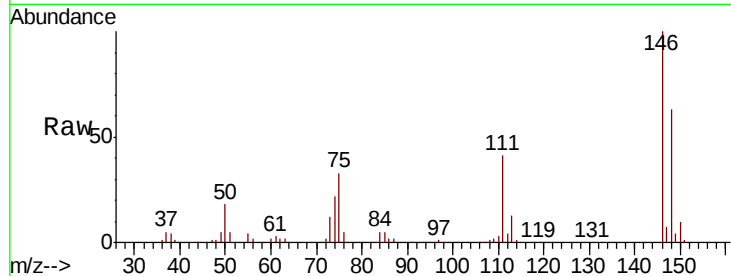




#62
 1,3-Dichlorobenzene
 Concen: 50.883 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

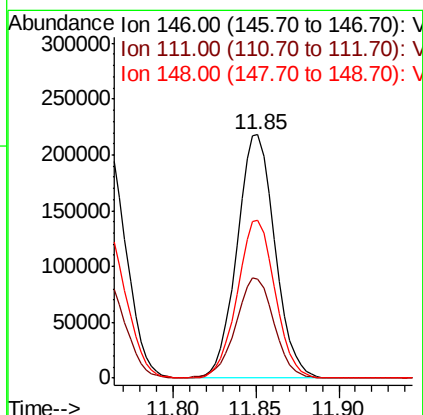
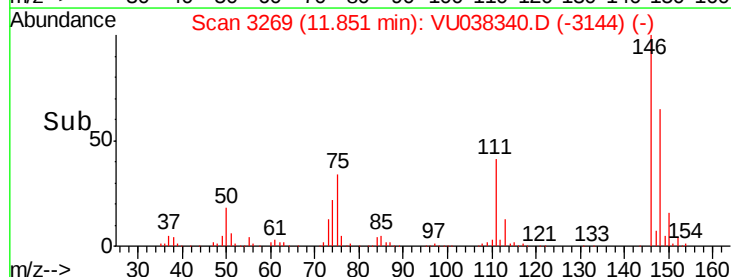
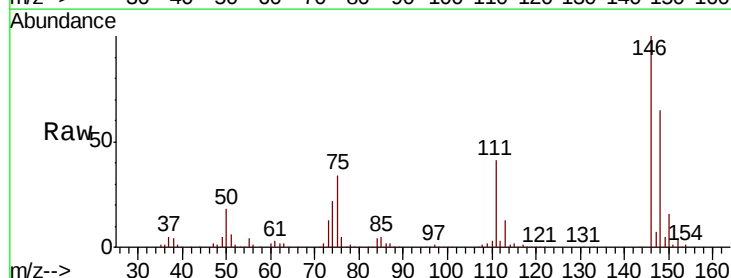
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

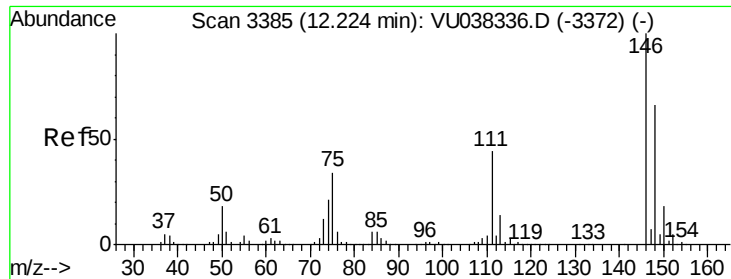
Tot Ion:146 Resp: 347513
 Ion Ratio Lower Upper
 146 100
 111 40.9 29.4 54.6
 148 62.7 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 49.957 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion:146 Resp: 346803
 Ion Ratio Lower Upper
 146 100
 111 40.9 27.7 51.5
 148 64.9 44.7 83.1

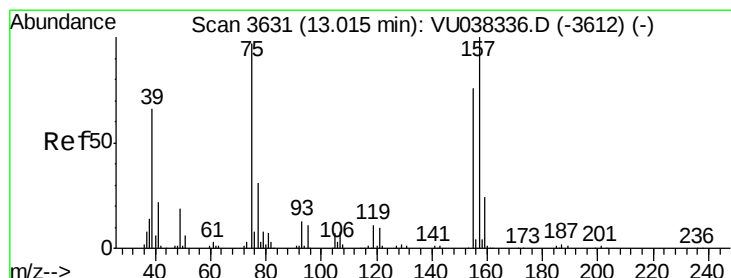
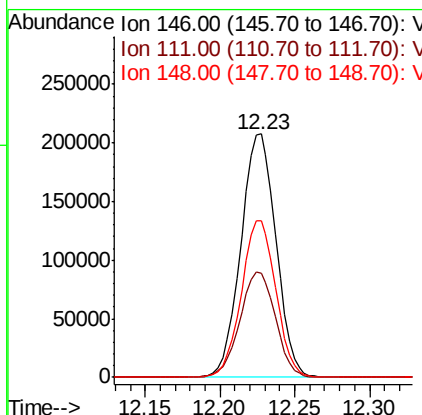
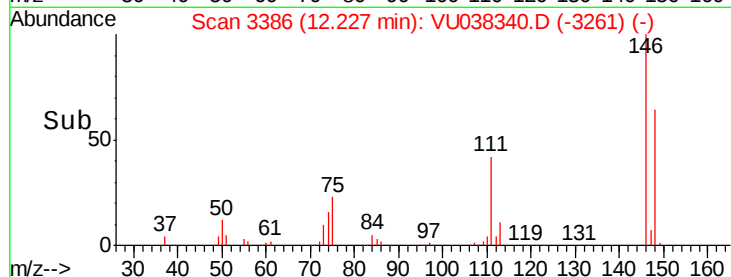
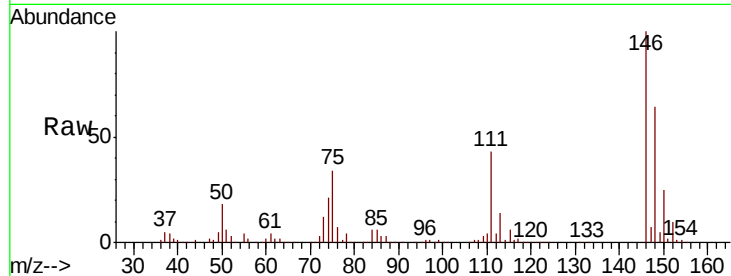




#65
 1,2-Dichlorobenzene
 Concen: 50.157 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

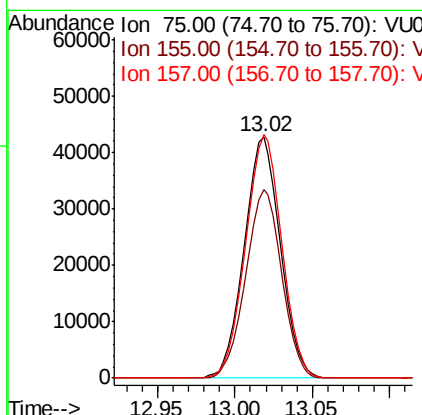
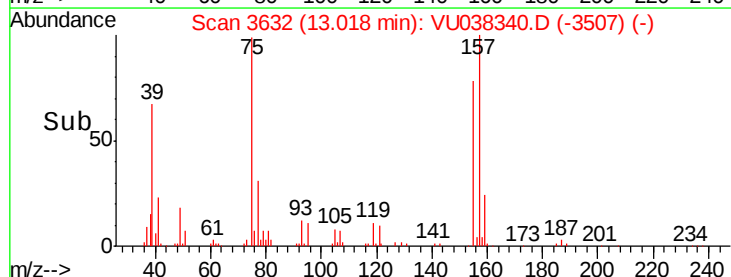
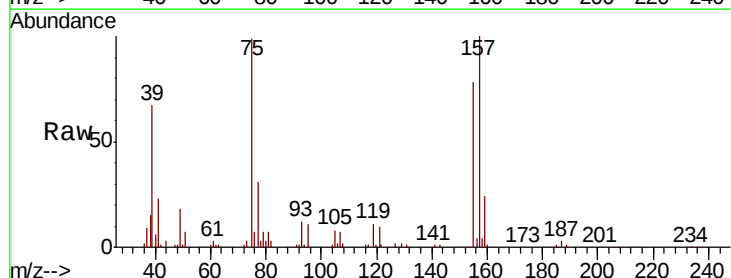
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05037

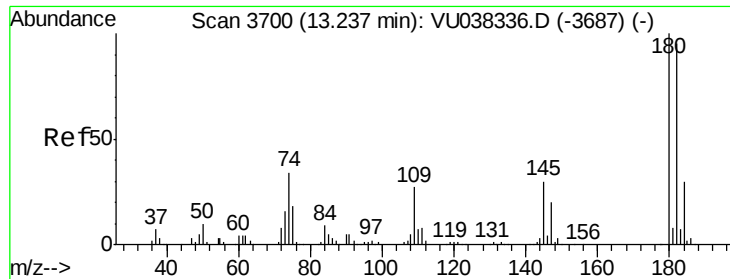
Tot Ion:146 Resp: 339701
 Ion Ratio Lower Upper
 146 100
 111 42.7 35.3 52.9
 148 64.4 52.5 78.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.276 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion: 75 Resp: 69708
 Ion Ratio Lower Upper
 75 100
 155 78.2 63.1 94.7
 157 100.8 82.7 124.1

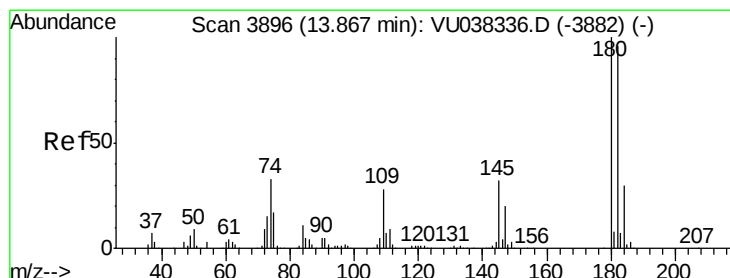
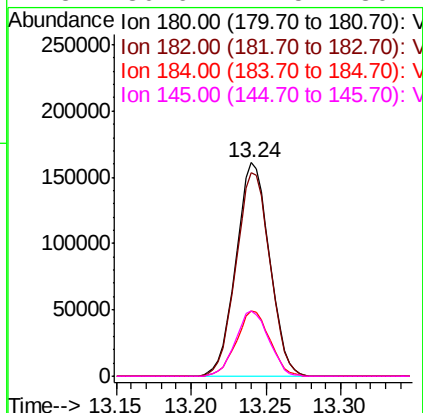
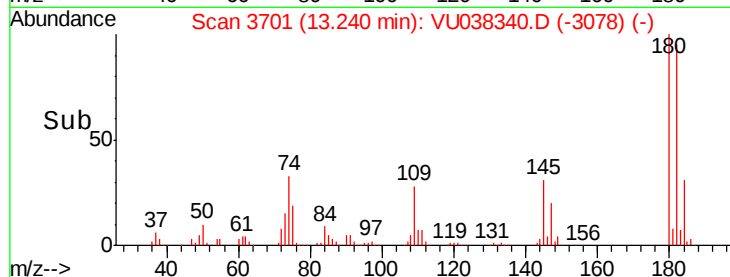
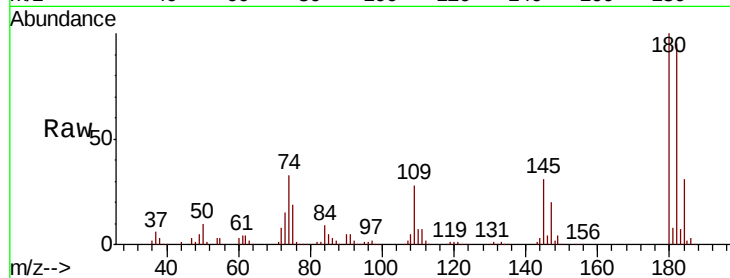




#67
 1,3,5-Trichlorobenzene
 Concen: 51.737 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

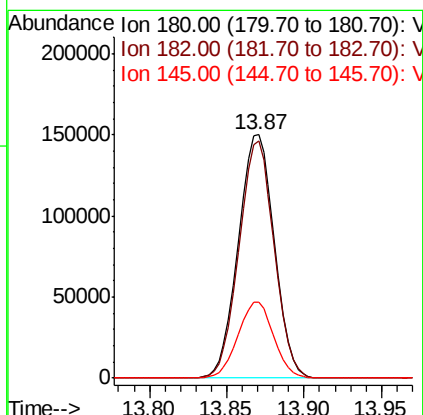
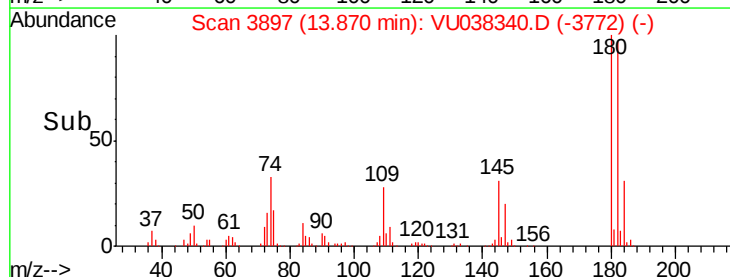
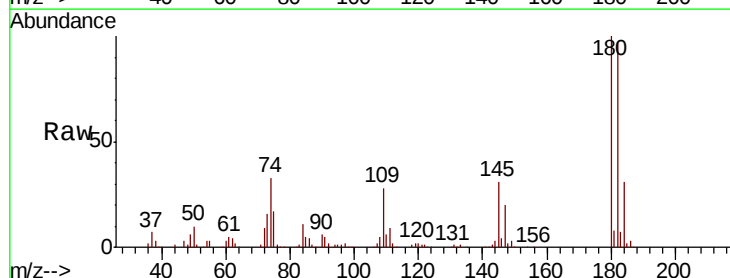
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05037

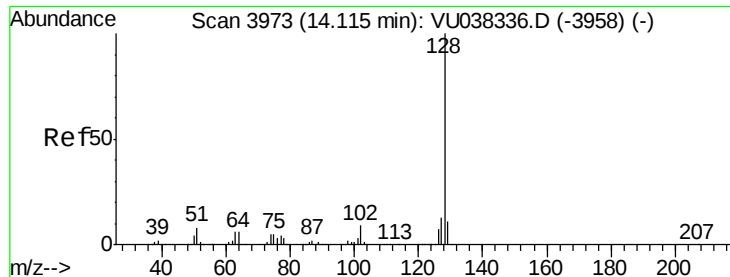
Tot Ion:180	Resp:	251470
Ion Ratio	Lower	Upper
180	100	
182	96.2	77.4 116.2
184	30.5	24.3 36.5
145	30.6	24.5 36.7



#68
 1,2,4-trichlorobenzene
 Concen: 52.170 ug/L
 RT: 13.87 min Scan# 3897
 Delta R.T. 0.00 min
 Lab File: VU038340.D
 Acq: 28 May 2020 12:05

Tgt Ion:180	Resp:	243206
Ion Ratio	Lower	Upper
180	100	
182	94.9	77.1 115.7
145	31.0	25.8 38.8





#69

Naphthalene

Concen: 53.198 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

Instrument :

MSVOA_U

ClientSampleId :

VSTD05037

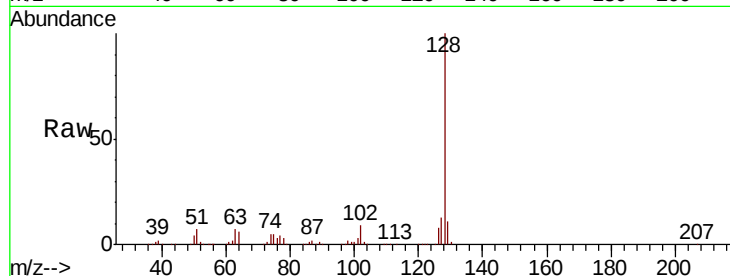
Tot Ion:128 Resp: 887957

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

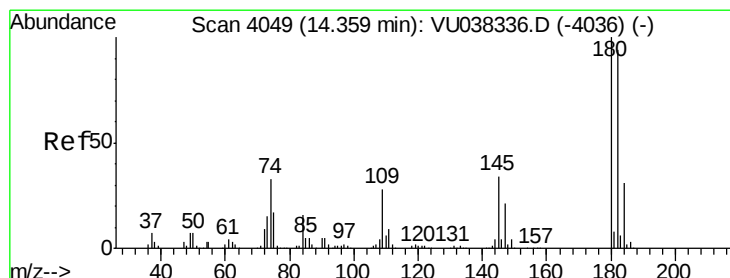
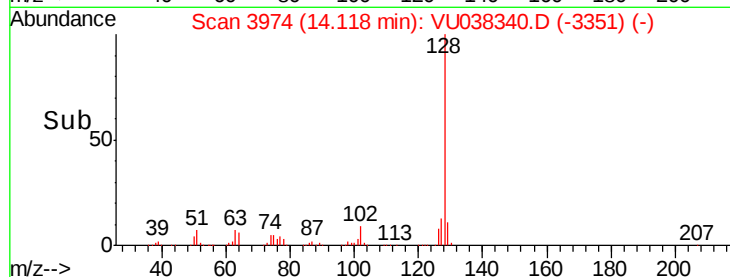
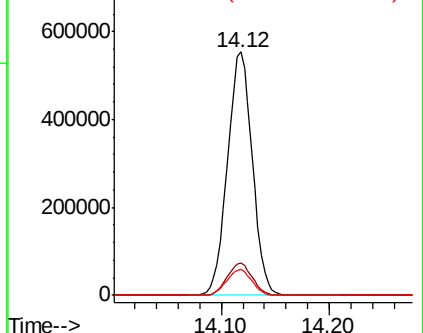
129 10.7 8.6 12.8



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: 52.433 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU038340.D

Acq: 28 May 2020 12:05

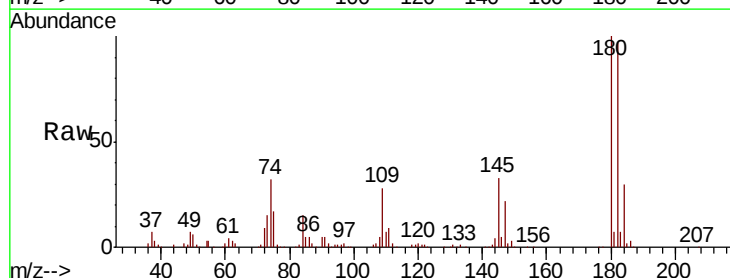
Tgt Ion:180 Resp: 244180

Ion Ratio Lower Upper

180 100

182 96.0 75.5 113.3

145 33.6 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

