

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062420\
 Data File : VU039101.D
 Acq On : 25 Jun 2020 07:12
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Quant Time: Jun 25 07:29:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR062320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jun 25 06:40:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	271548	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.43	117	267573	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.82	152	133572	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	82170	4.13	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.60%
7) Chloroethane-d5	1.93	69	75283	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.59	63	168938	4.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.40%
20) 2-Butanone-d5	4.67	46	375816	52.37	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.74%
24) Chloroform-d	5.10	84	184056	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.74	65	112269	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.76	84	335107	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
36) 1,2-Dichloropropane-d6	6.72	67	113273	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.80%
41) Toluene-d8	7.92	98	278417	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
43) trans-1,3-Dichloropropene-	8.20	79	46526	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
46) 2-Hexanone-d5	8.65	63	296857	53.08	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.16%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	110404	4.76	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.20%
64) 1,2-Dichlorobenzene-d4	12.20	152	110061	4.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	113967	4.690 ug/L	97
3) Chloromethane	1.53	50	112923	4.317 ug/L	95
5) Vinyl chloride	1.62	62	121110	4.591 ug/L	100
6) Bromomethane	1.87	94	43611	3.071 ug/L	96
8) Chloroethane	1.95	64	76039	4.783 ug/L	98
9) Trichlorofluoromethane	2.16	101	159272	4.716 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	93373	4.750 ug/L	98
12) 1,1-Dichloroethene	2.61	96	86705	4.610 ug/L	95
13) Acetone	2.67	43	222044	45.563 ug/L	99
14) Carbon disulfide	2.82	76	279965	4.465 ug/L	100
15) Methyl Acetate	2.98	43	55970	4.837 ug/L	99
16) Methylene chloride	3.08	84	105025	4.526 ug/L	97
17) Methyl tert-butyl Ether	3.40	73	253759	4.740 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	88697	4.408 ug/L	99
19) 1,1-Dichloroethane	3.91	63	187473	4.686 ug/L	99
21) 2-Butanone	4.75	43	368284	49.705 ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	99799	4.596 ug/L	98

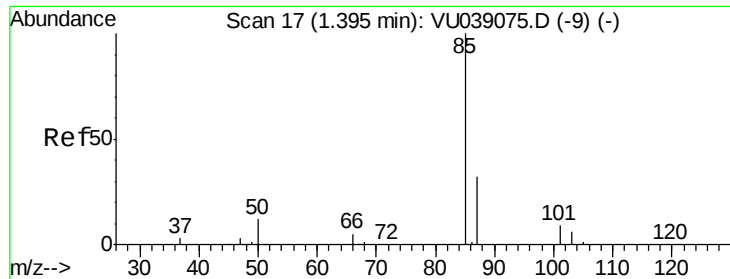
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062420\
 Data File : VU039101.D
 Acq On : 25 Jun 2020 07:12
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	46497	4.653	ug/L	88
25) Chloroform	5.12	83	190041	4.729	ug/L	96
27) 1,2-Dichloroethane	5.83	62	136218	4.756	ug/L	96
29) 1,1,1-Trichloroethane	5.35	97	159003	4.762	ug/L	99
30) Cyclohexane	5.42	56	148035	4.765	ug/L	99
31) Carbon tetrachloride	5.56	117	132039	4.748	ug/L	98
33) Benzene	5.81	78	402266	4.785	ug/L	100
34) Trichloroethene	6.57	95	97374	4.789	ug/L	98
35) Methylcyclohexane	6.79	83	141016	4.673	ug/L	97
37) 1,2-Dichloropropane	6.82	63	108898	4.781	ug/L	100
38) Bromodichloromethane	7.13	83	137802	4.853	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	147008	4.657	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	864418	50.849	ug/L	99
42) Toluene	7.99	91	407023	4.878	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	134860	4.565	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	81525	4.816	ug/L	98
47) Tetrachloroethene	8.57	164	66508	4.538	ug/L	98
48) 2-Hexanone	8.71	43	660933	53.034	ug/L	99
49) Dibromochloromethane	8.83	129	90978	4.942	ug/L	100
50) 1,2-Dibromoethane	8.94	107	77463	4.840	ug/L	99
51) Chlorobenzene	9.46	112	250893	4.776	ug/L	98
52) Ethylbenzene	9.59	91	413204	4.711	ug/L	99
53) m,p-Xylene	9.71	106	160305	4.970	ug/L	100
54) o-Xylene	10.11	106	149693	4.831	ug/L	96
55) Styrene	10.13	104	269108	4.946	ug/L	99
56) Isopropylbenzene	10.50	105	390677	4.812	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	108368	4.788	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	82542	4.807	ug/L	100
61) Bromoform	10.30	173	51500	4.720	ug/L	97
62) 1,3-Dichlorobenzene	11.75	146	187214	4.714	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	185898	4.544	ug/L	99
65) 1,2-Dichlorobenzene	12.22	146	179844	4.516	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.01	75	20139	4.584	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	128863	4.384	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	114865	4.290	ug/L	100
69) Naphthalene	14.11	128	233569	4.089	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	110923	4.292	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.690 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

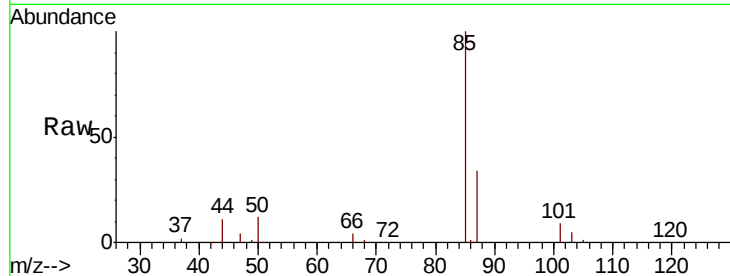
VSTD00515

Tot Ion: 85 Resp: 113967

Ion Ratio Lower Upper

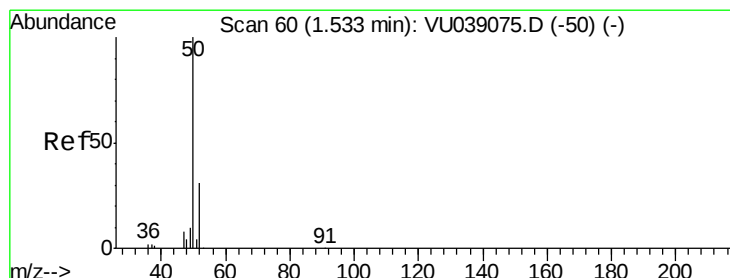
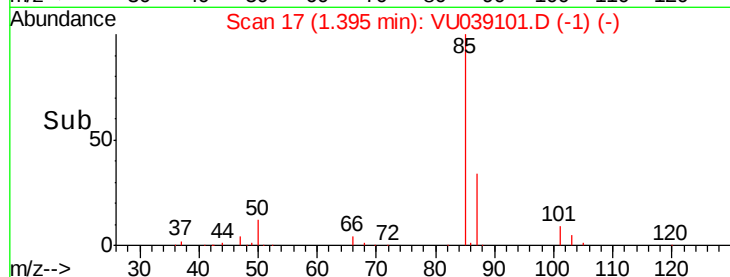
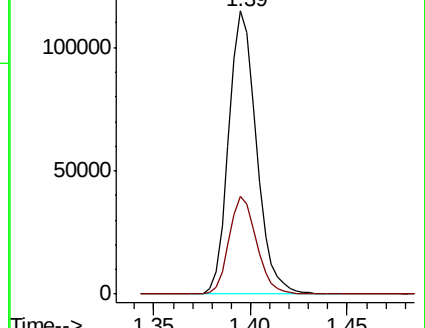
85 100

87 34.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU039101.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU039101.D (-1) (-)



#3

Chloromethane

Concen: 4.317 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU039101.D

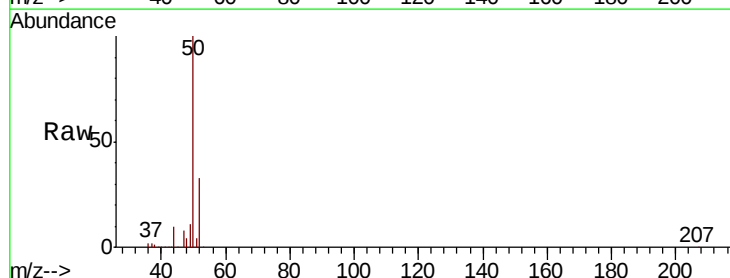
Acq: 25 Jun 2020 07:12

Tgt Ion: 50 Resp: 112923

Ion Ratio Lower Upper

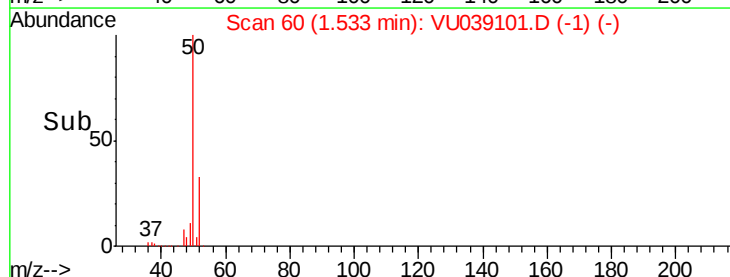
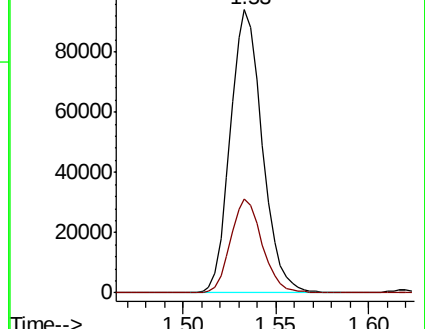
50 100

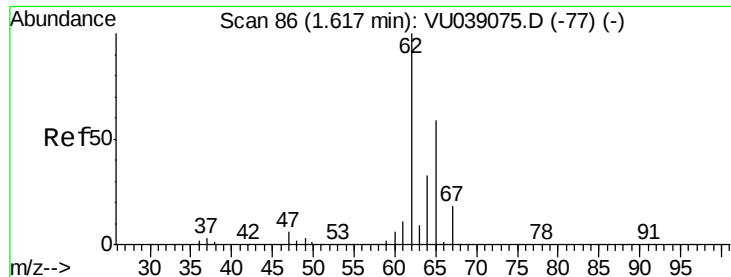
52 33.0 21.1 39.3



Abundance Ion 50.05 (49.75 to 50.75): VU039101.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU039101.D (-1) (-)





#5

Vinyl chloride

Concen: 4.591 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

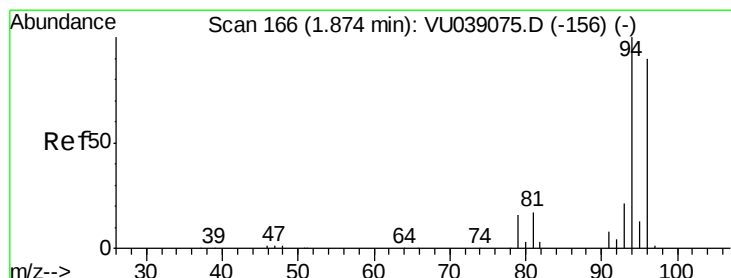
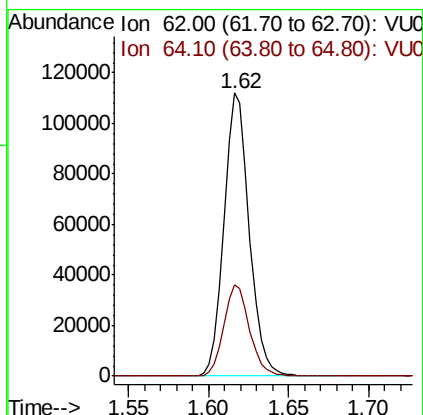
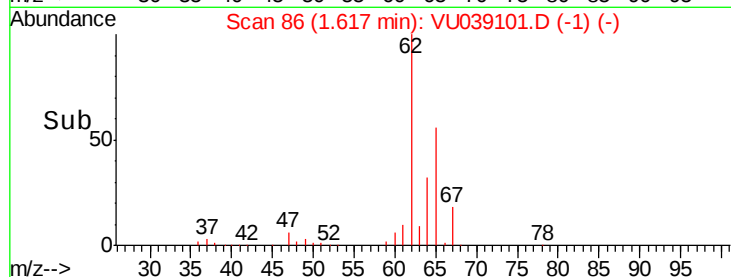
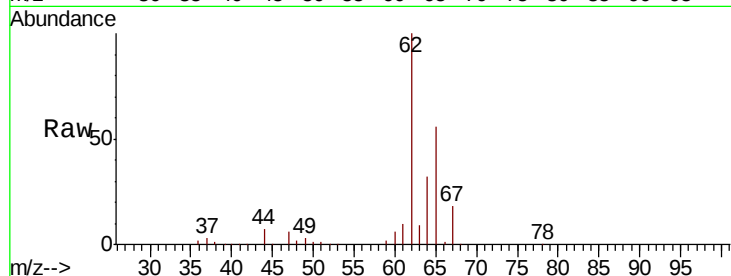
VSTD00515

Tot Ion: 62 Resp: 121110

Ion Ratio Lower Upper

62 100

64 32.1 22.4 41.6



#6

Bromomethane

Concen: 3.071 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU039101.D

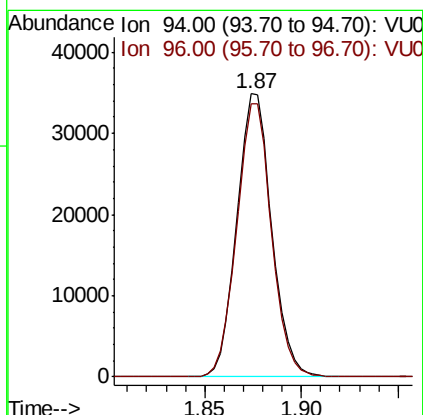
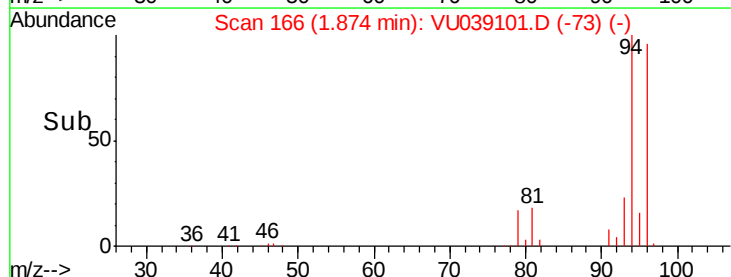
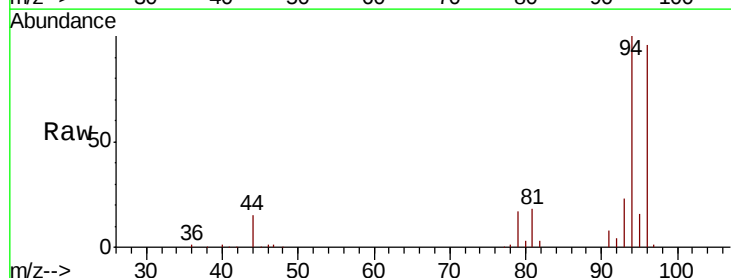
Acq: 25 Jun 2020 07:12

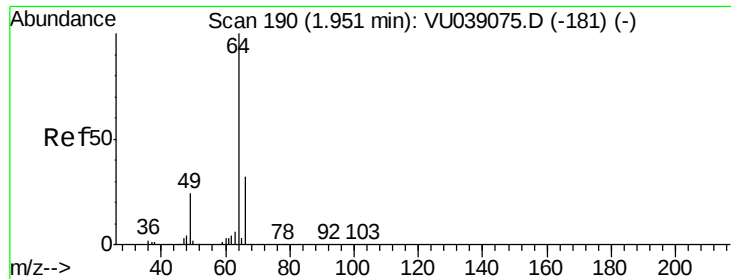
Tgt Ion: 94 Resp: 43611

Ion Ratio Lower Upper

94 100

96 96.4 64.9 120.5

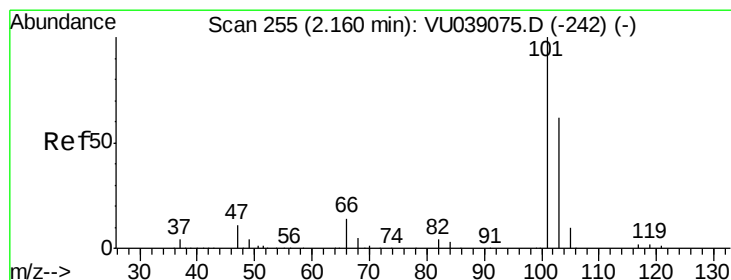
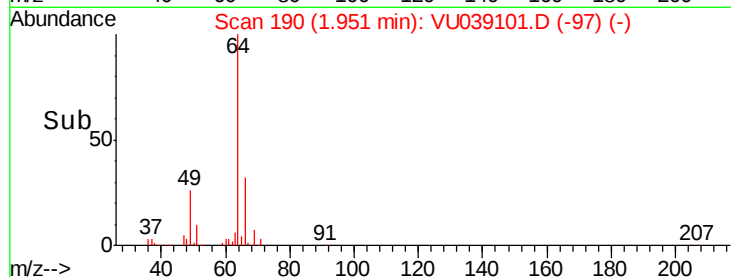
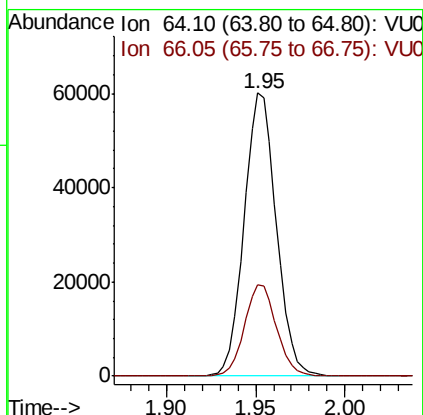
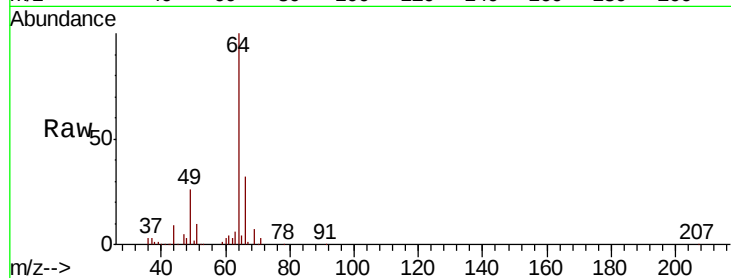




#8
Chloroethane
Concen: 4.783 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

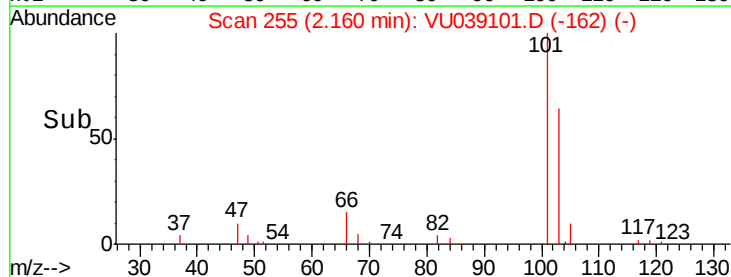
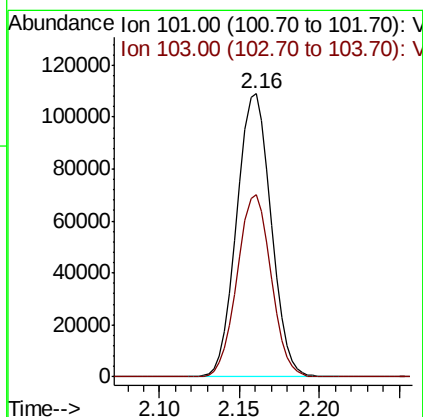
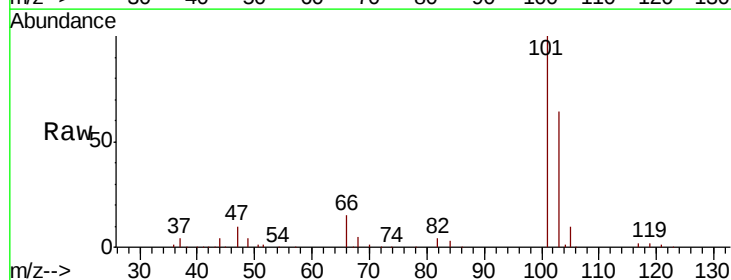
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

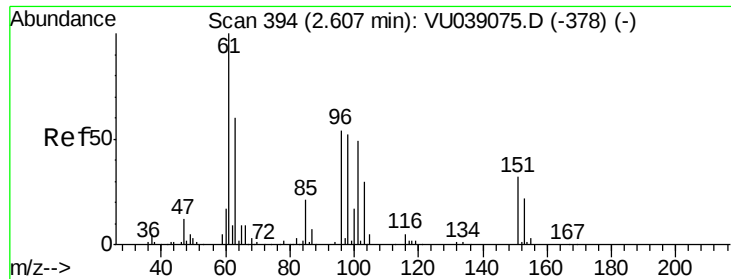
Tot Ion: 64 Resp: 76039
Ion Ratio Lower Upper
64 100
66 32.3 23.4 43.4



#9
Trichlorofluoromethane
Concen: 4.716 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion: 101 Resp: 159272
Ion Ratio Lower Upper
101 100
103 63.5 51.4 77.0





#10

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

Concen: 4.750 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

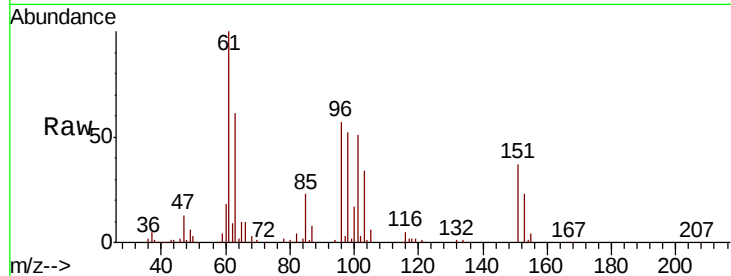
Tot Ion:101 Resp: 93373

Ion Ratio Lower Upper

101 100

85 43.7 36.2 54.4

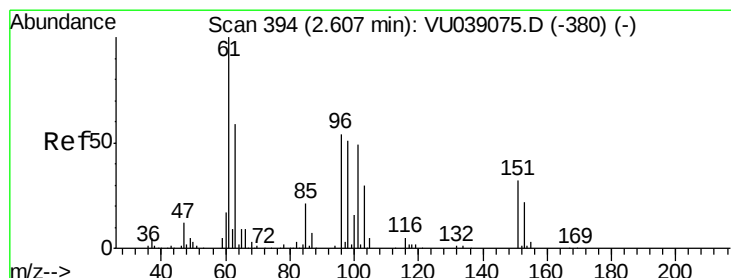
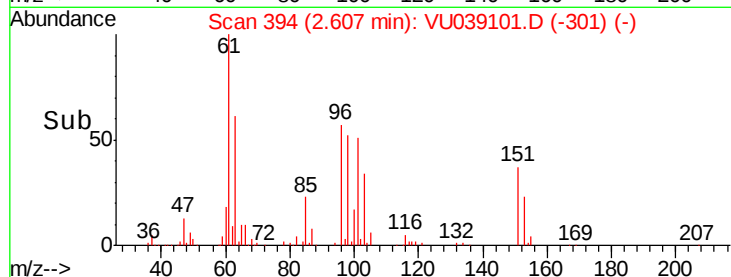
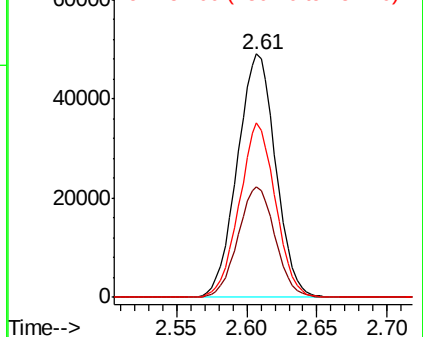
151 67.7 55.0 82.6



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: 4.610 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

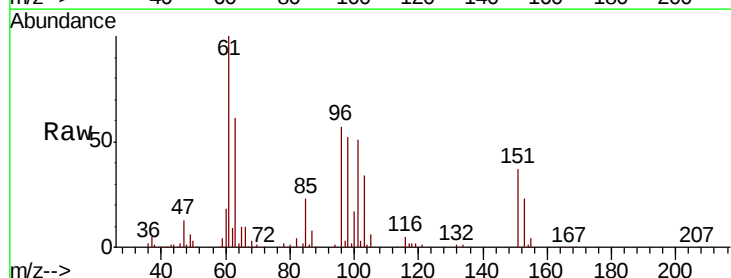
Tgt Ion: 96 Resp: 86705

Ion Ratio Lower Upper

96 100

61 176.7 125.1 232.3

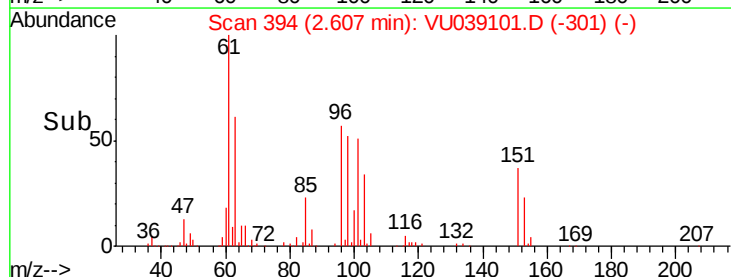
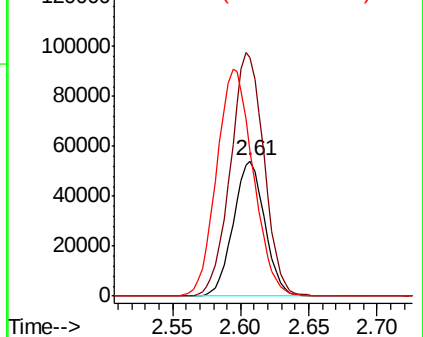
63 106.9 82.3 152.8

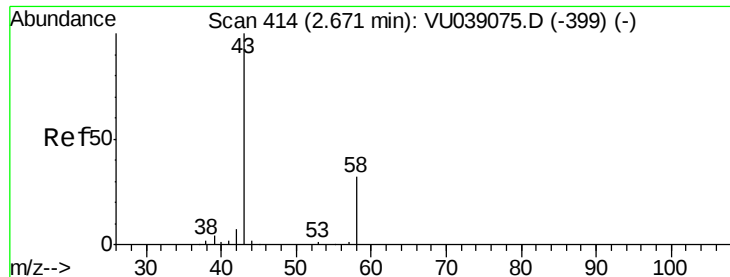


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.563 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

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ClientSampleId :

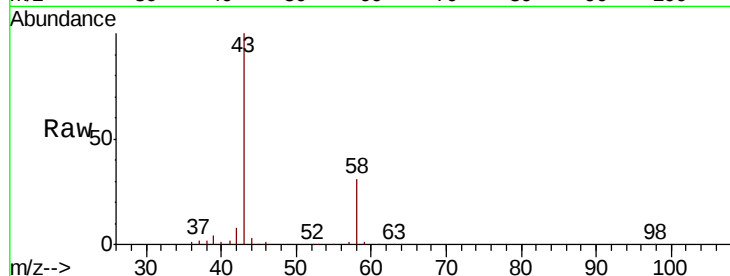
VSTD00515

Tot Ion: 43 Resp: 222044

Ion Ratio Lower Upper

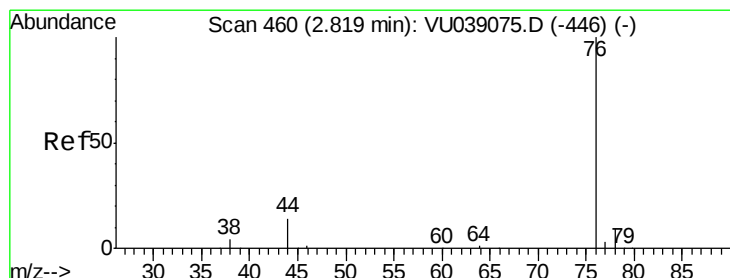
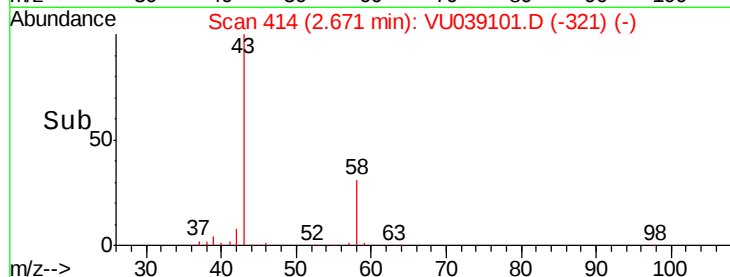
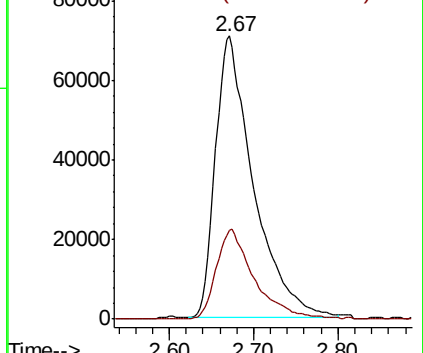
43 100

58 31.7 0.0 64.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0



#14

Carbon disulfide

Concen: 4.465 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU039101.D

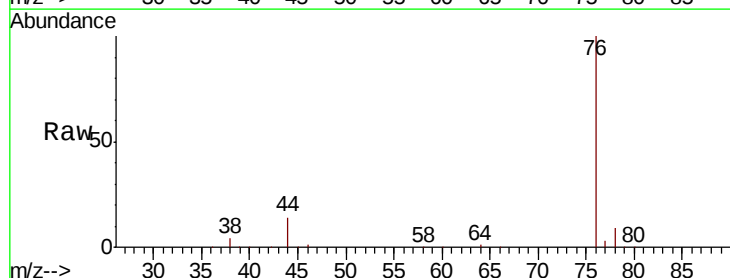
Acq: 25 Jun 2020 07:12

Tgt Ion: 76 Resp: 279965

Ion Ratio Lower Upper

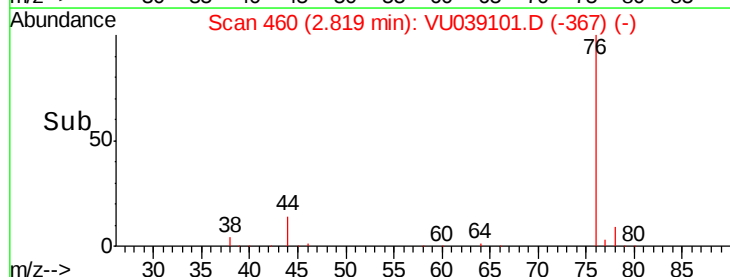
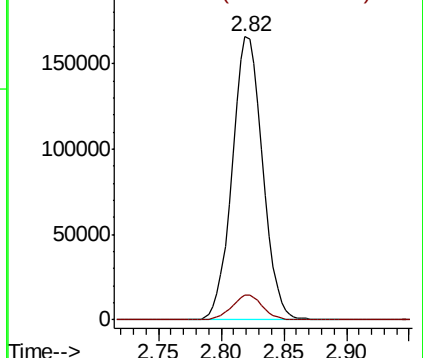
76 100

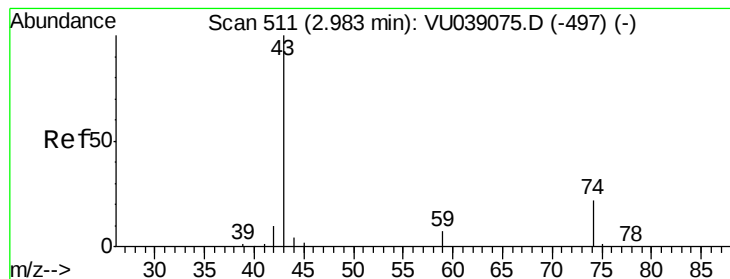
78 8.6 7.0 10.6



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0





#15

Methvl Acetate

Concen: 4.837 ug/L

RT: 2.98 min Scan# 511

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

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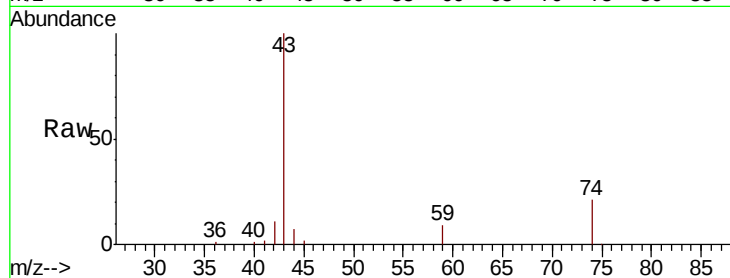
VSTD00515

Tot Ion: 43 Resp: 55970

Ion Ratio Lower Upper

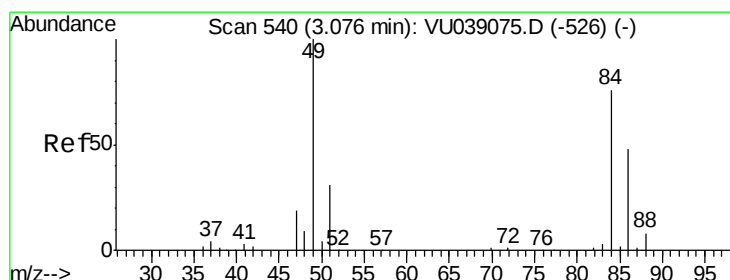
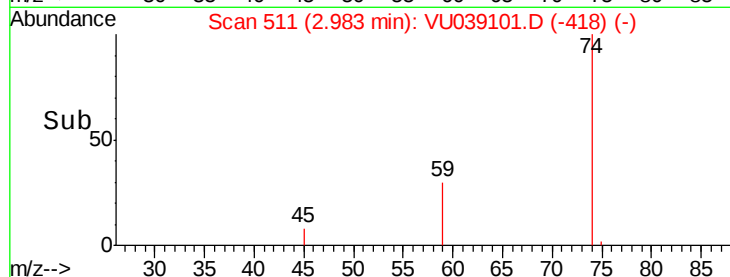
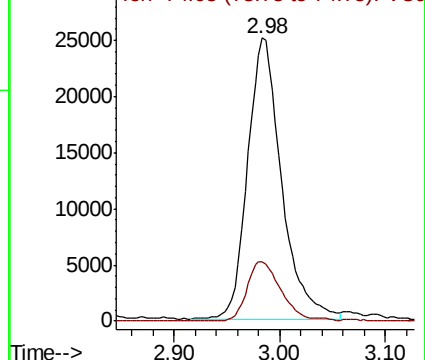
43 100

74 20.9 17.0 25.4



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.526 ug/L

RT: 3.08 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

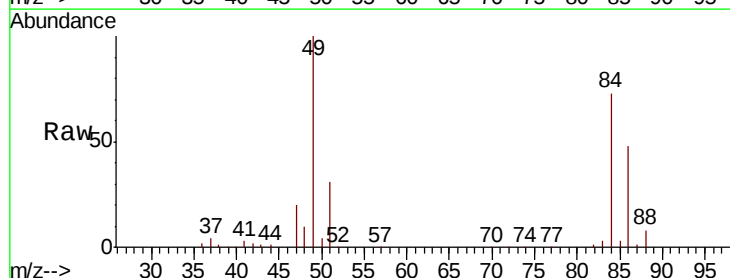
Tgt Ion: 84 Resp: 105025

Ion Ratio Lower Upper

84 100

86 65.8 44.1 81.9

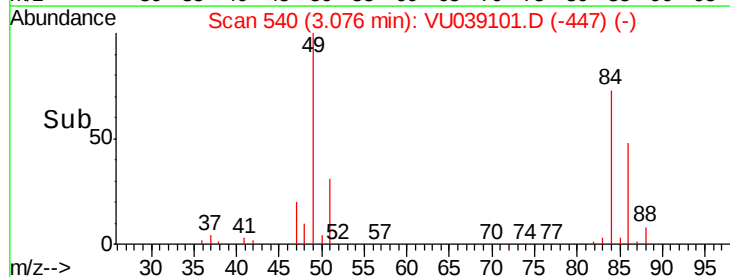
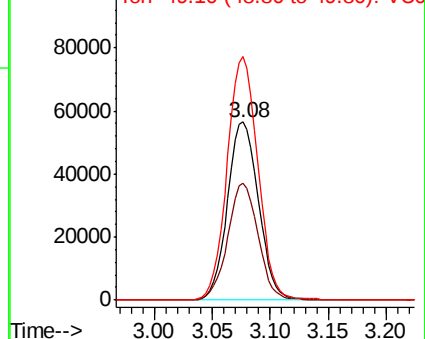
49 136.9 93.1 172.9

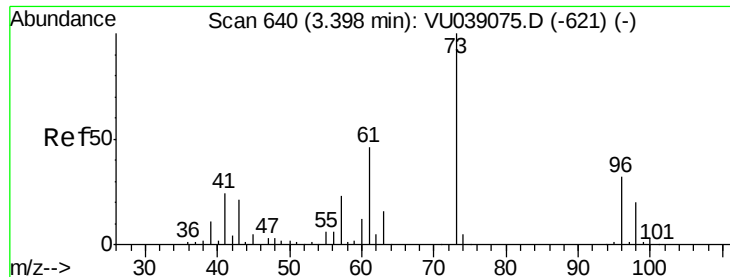


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0



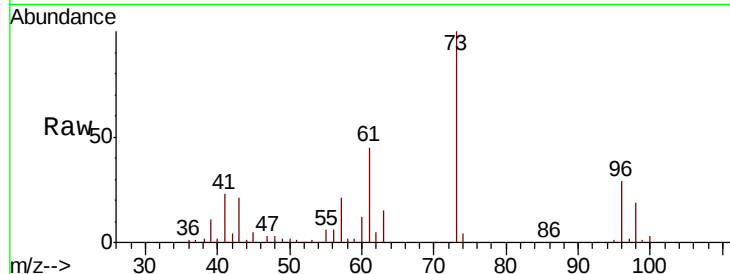


#17

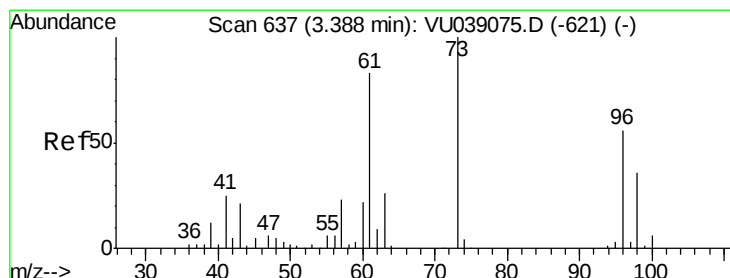
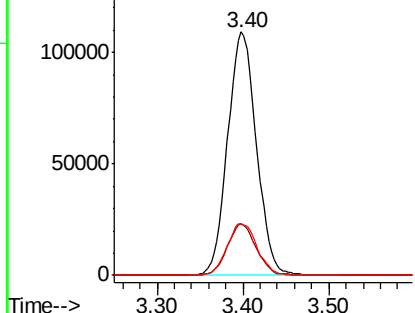
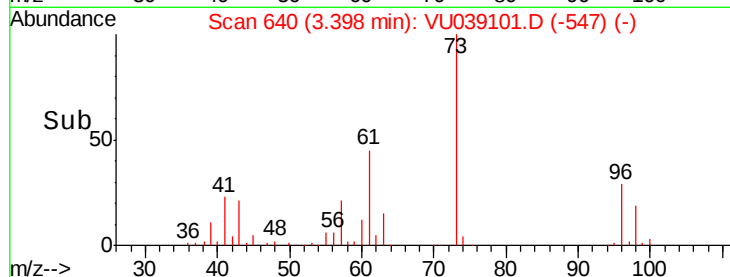
Methvl tert-butvl Ether
 Concen: 4.740 ug/L
 RT: 3.40 min Scan# 640
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion: 73 Resp: 253759
 Ion Ratio Lower Upper
 73 100
 43 21.4 16.6 24.8
 57 22.3 18.2 27.4



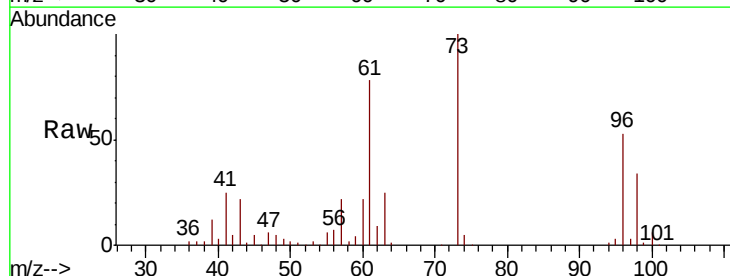
Abundance Ion 73.10 (72.80 to 73.80): VU0
 Ion 43.05 (42.75 to 43.75): VU0
 Ion 57.10 (56.80 to 57.80): VU0



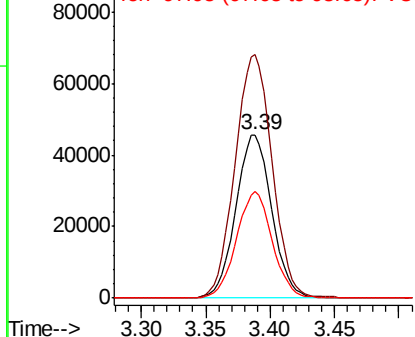
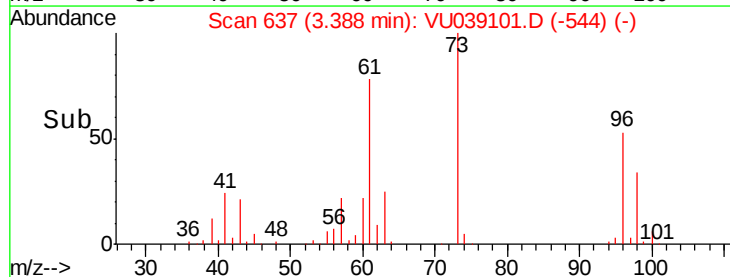
#18

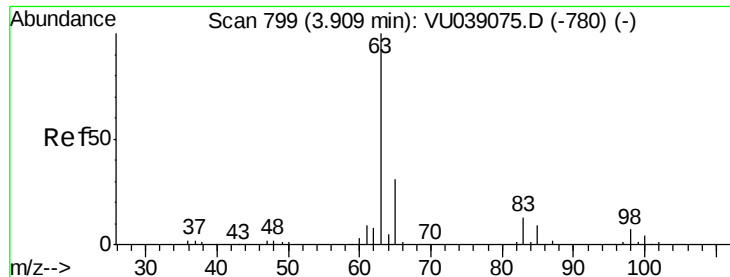
trans-1,2-Dichloroethene
 Concen: 4.408 ug/L
 RT: 3.39 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion: 96 Resp: 88697
 Ion Ratio Lower Upper
 96 100
 61 148.8 103.5 192.3
 98 65.4 44.9 83.5



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.686 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

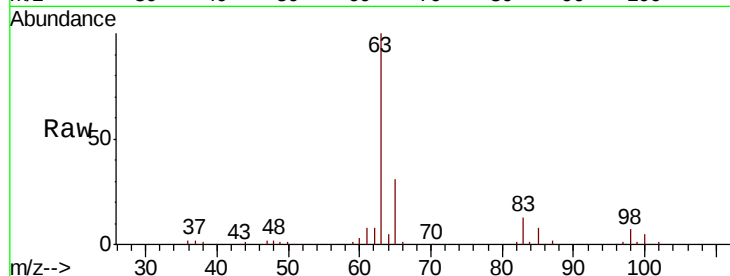
Tot Ion: 63 Resp: 187473

Ion Ratio Lower Upper

63 100

65 30.7 22.1 41.1

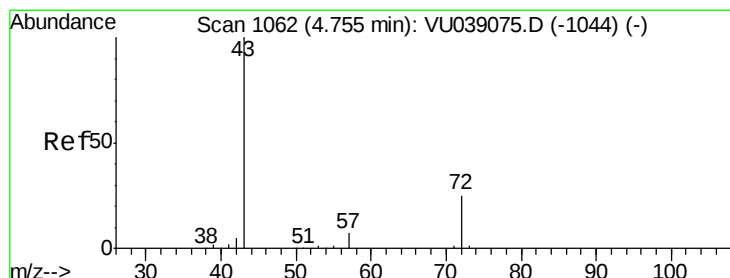
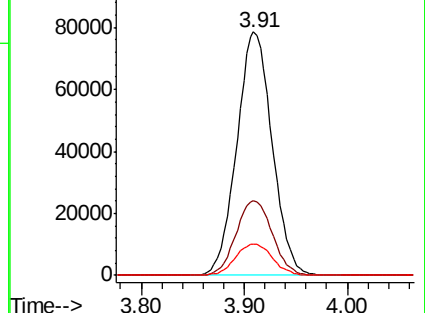
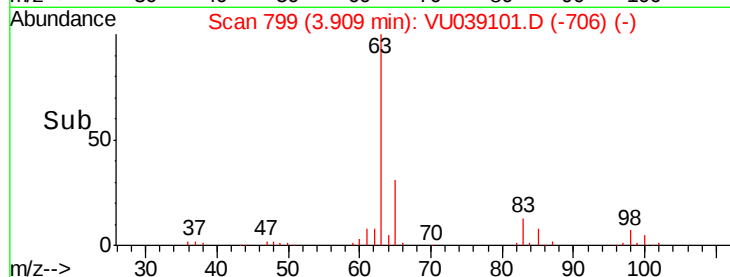
83 13.0 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU039101.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU039101.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU039101.D (-706) (-)



#21

2-Butanone

Concen: 49.705 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. -0.00 min

Lab File: VU039101.D

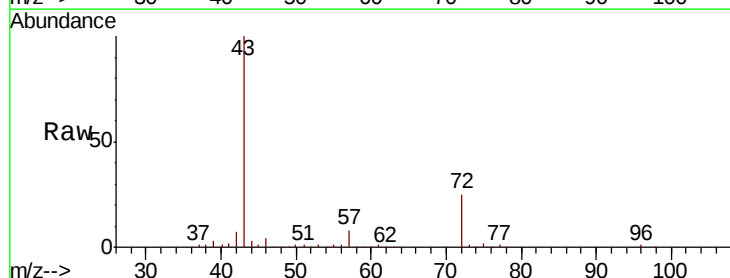
Acq: 25 Jun 2020 07:12

Tgt Ion: 43 Resp: 368284

Ion Ratio Lower Upper

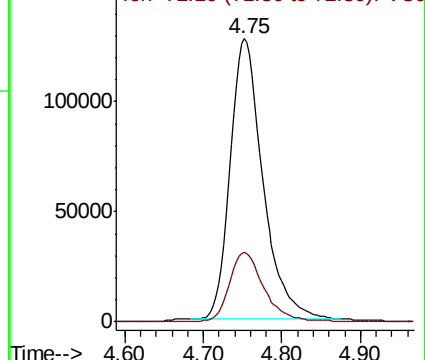
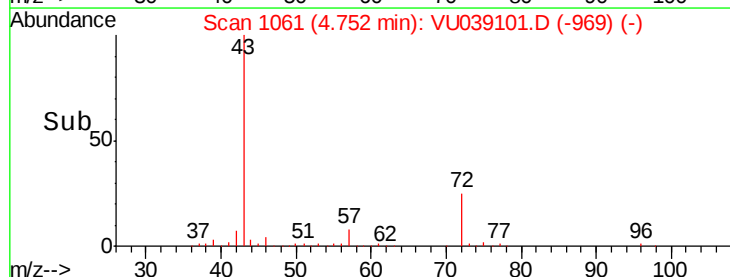
43 100

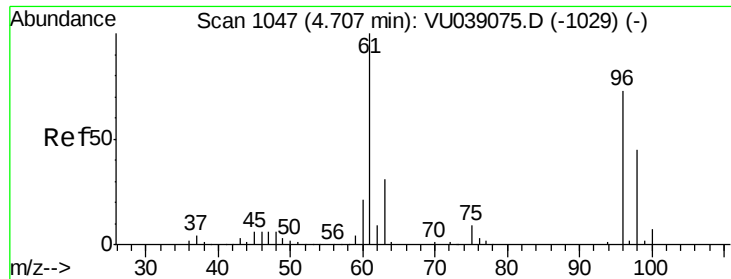
72 26.4 13.1 39.3



Abundance Ion 43.05 (42.75 to 43.75): VU039101.D (-969) (-)

Ion 72.10 (71.80 to 72.80): VU039101.D (-969) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.596 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

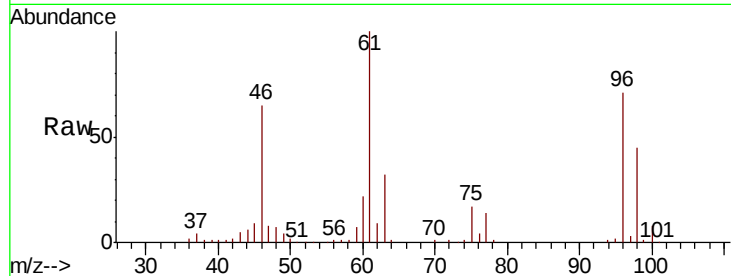
Tot Ion: 96 Resp: 99799

Ion Ratio Lower Upper

96 100

61 141.0 100.8 187.2

68 0.0 0.0 0.0

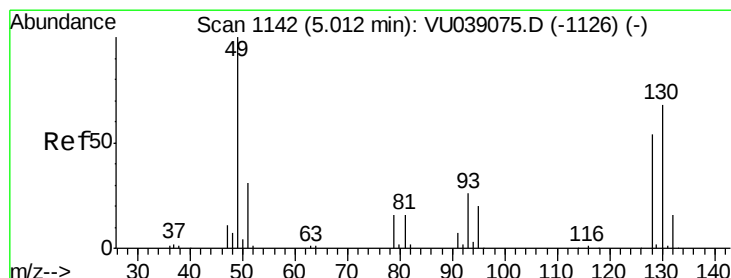
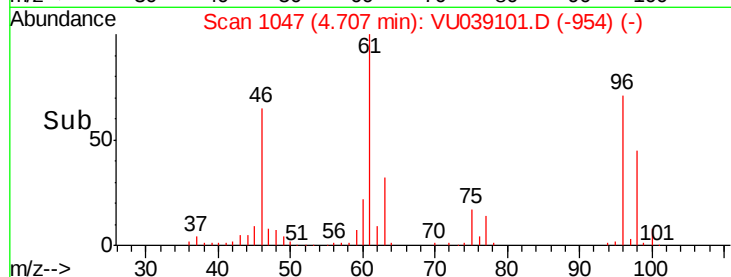
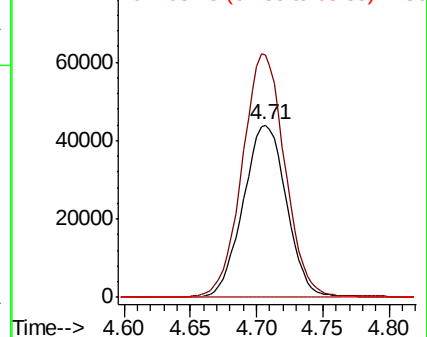


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.653 ug/L

RT: 5.01 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Tgt Ion: 128 Resp: 46497

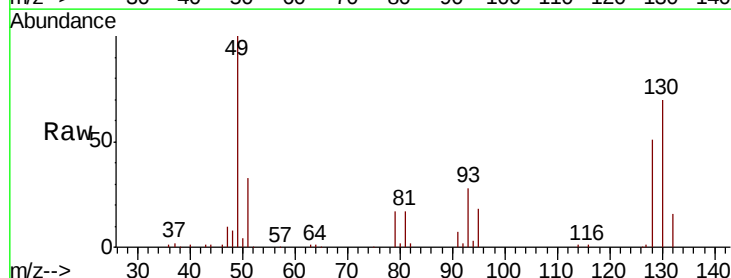
Ion Ratio Lower Upper

128 100

49 197.4 127.3 236.5

130 137.9 84.4 156.7

51 65.4 47.5 71.3



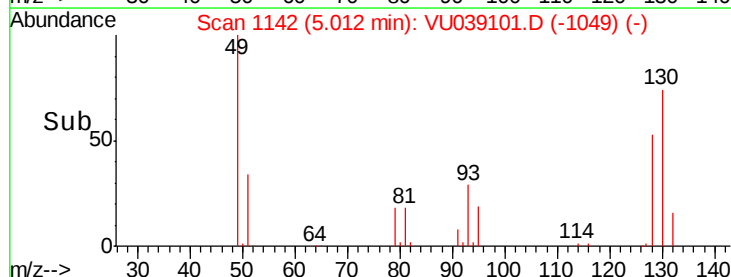
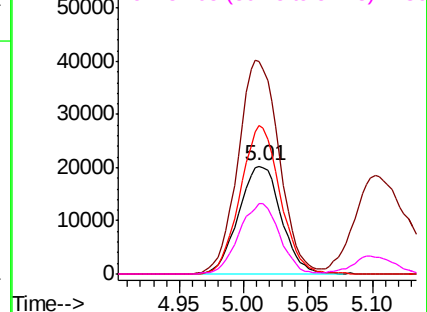
Abundance

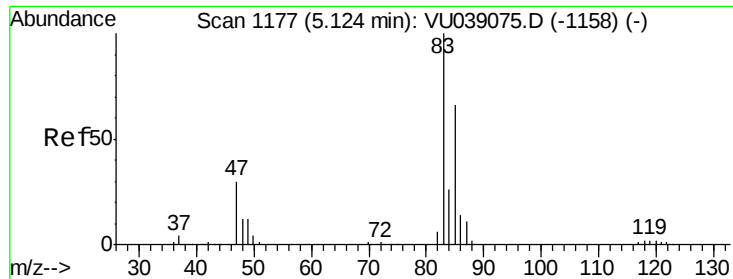
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

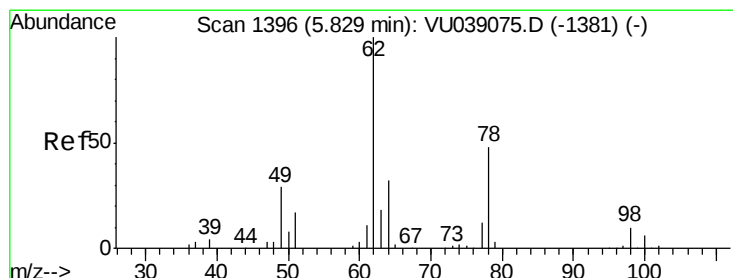
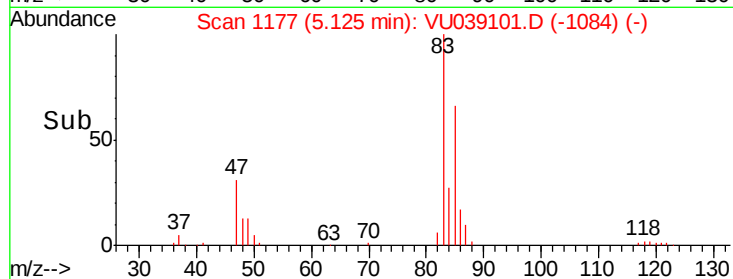
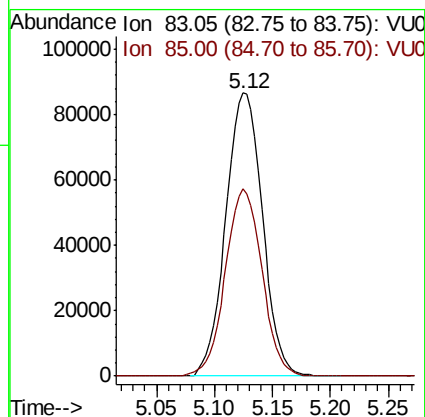
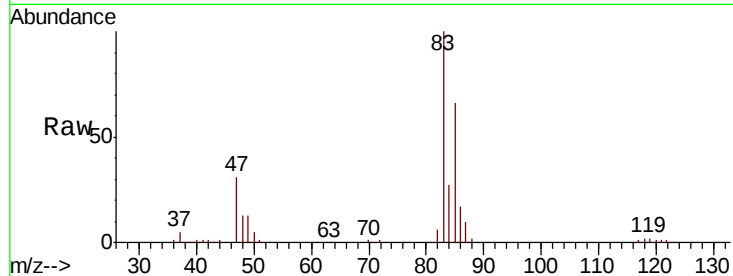




#25
Chloroform
Concen: 4.729 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

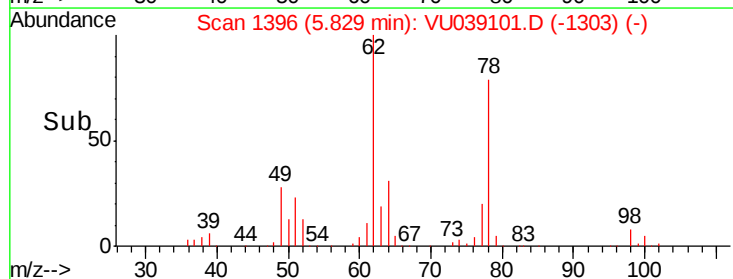
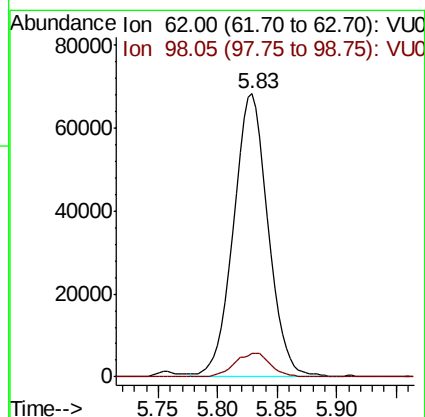
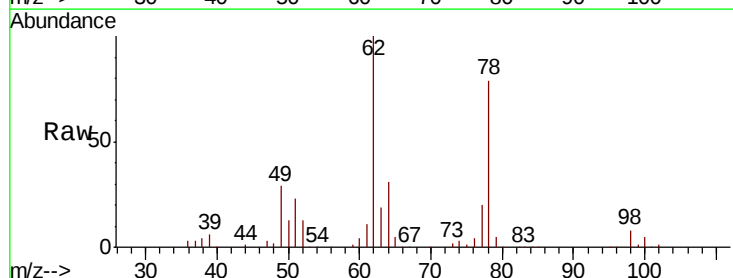
Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

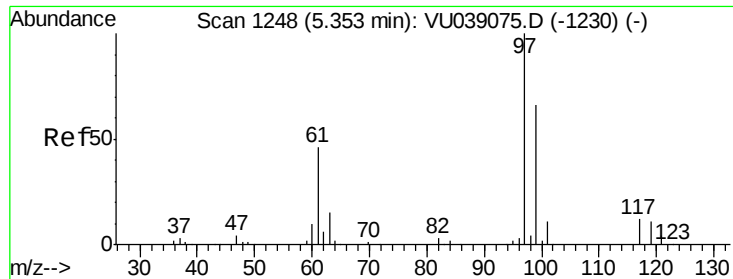
Tot Ion: 83 Resp: 190041
Ion Ratio Lower Upper
83 100
85 66.0 43.8 81.4



#27
1,2-Dichloroethane
Concen: 4.756 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion: 62 Resp: 136218
Ion Ratio Lower Upper
62 100
98 8.2 7.7 11.5

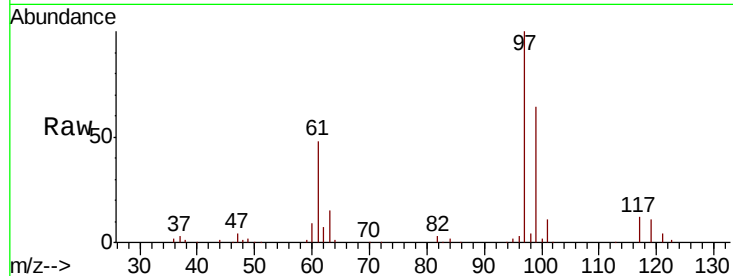




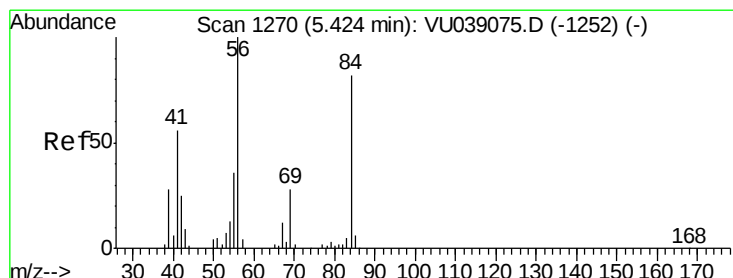
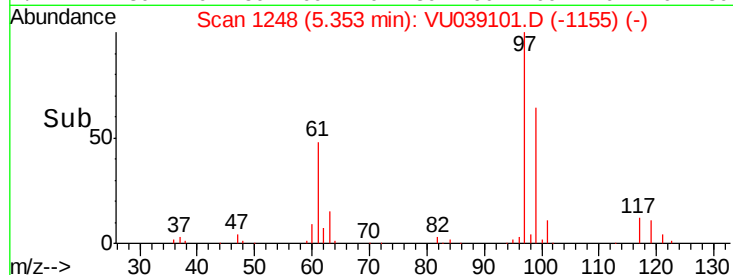
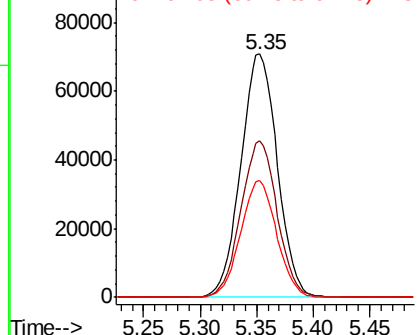
#29
 1,1,1-Trichloroethane
 Concen: 4.762 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.3	75.5
61	47.4	37.8	56.6

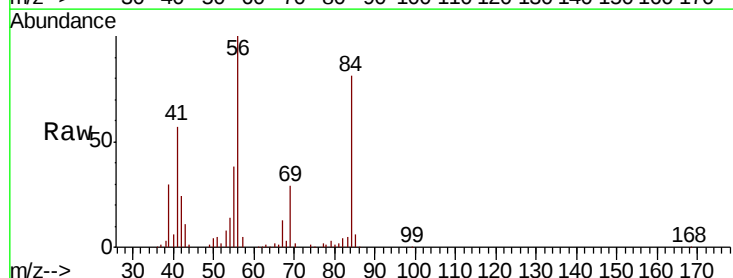


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

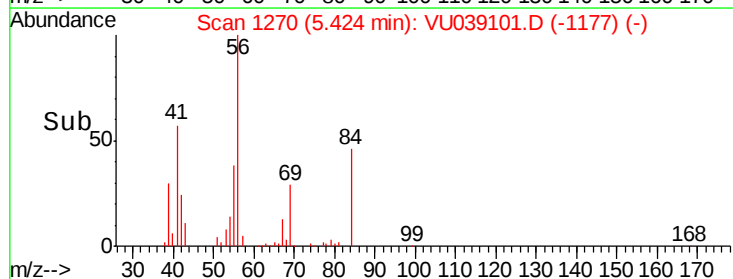
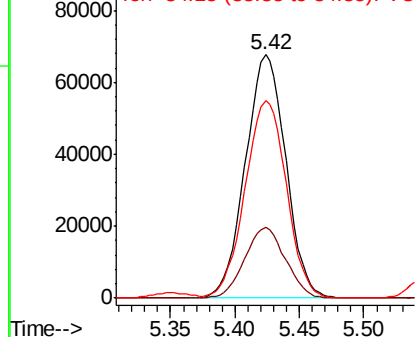


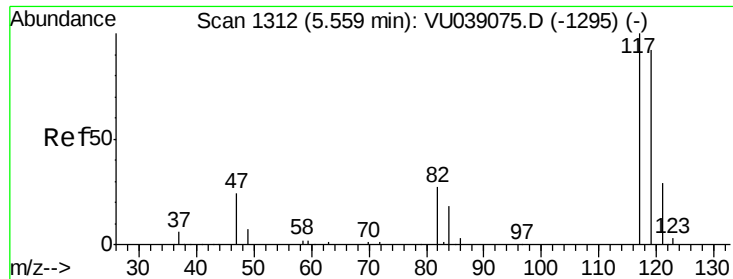
#30
 Cyclohexane
 Concen: 4.765 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.3	34.9
84	83.1	67.1	100.7



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 4.748 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

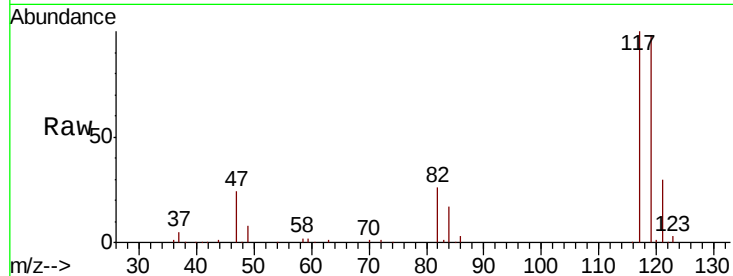
VSTD00515

Tot Ion:117 Resp: 132039

Ion Ratio Lower Upper

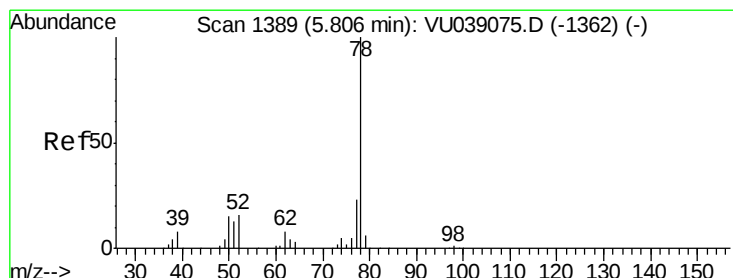
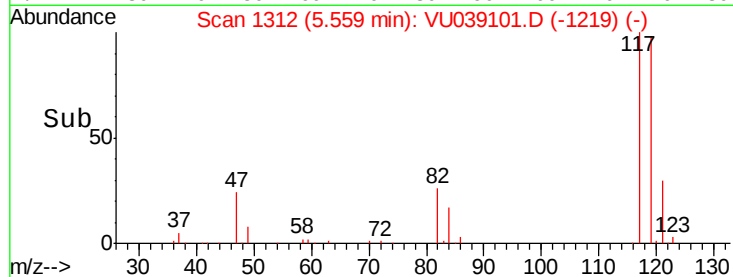
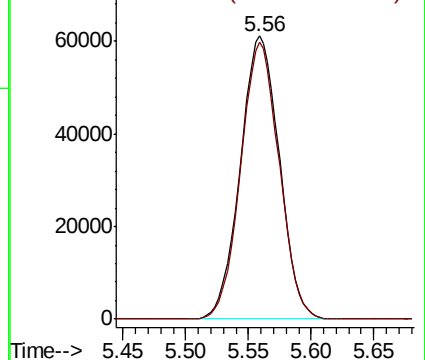
117 100

119 96.4 75.7 113.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.785 ug/L

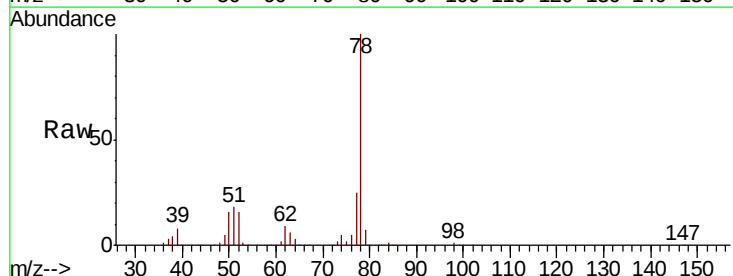
RT: 5.81 min Scan# 1389

Delta R.T. 0.00 min

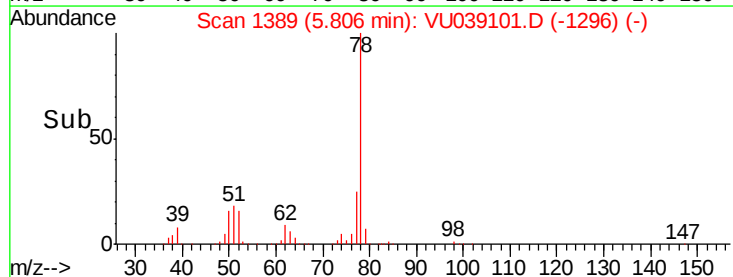
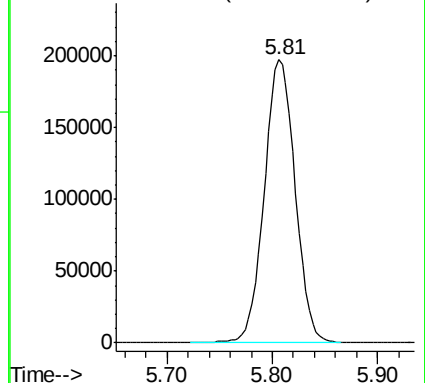
Lab File: VU039101.D

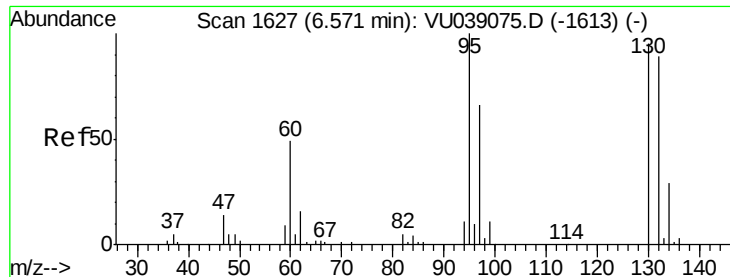
Acq: 25 Jun 2020 07:12

Tgt Ion: 78 Resp: 402266



Abundance Ion 78.10 (77.80 to 78.80): VU0

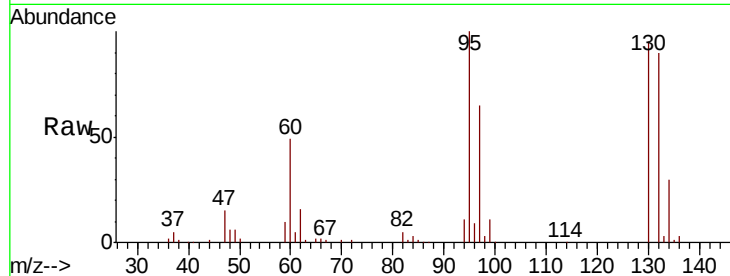




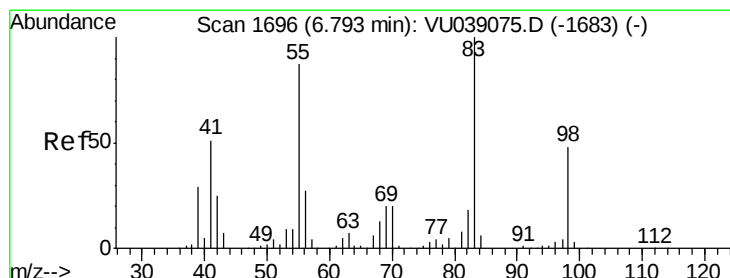
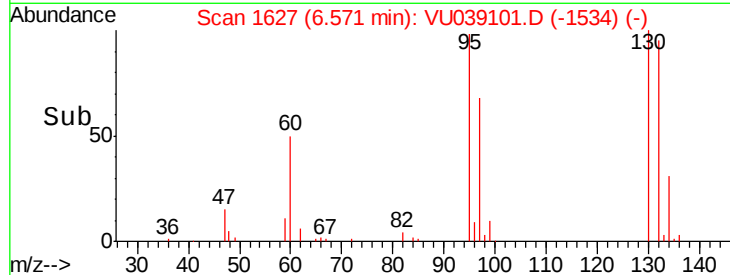
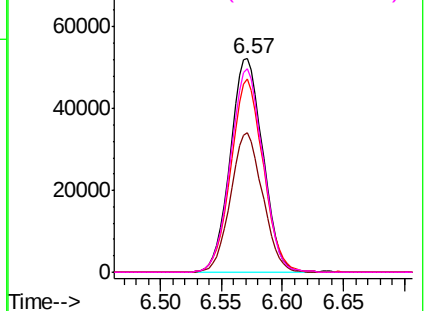
#34
 Trichloroethene
 Concen: 4.789 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion: 95 Resp: 97374
 Ion Ratio Lower Upper
 95 100
 97 65.3 45.1 83.7
 132 90.2 65.1 120.9
 130 95.4 68.6 127.4

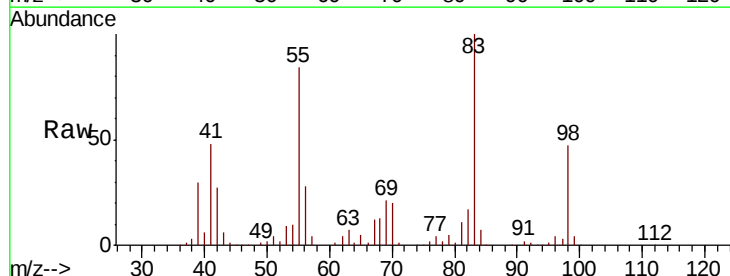


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

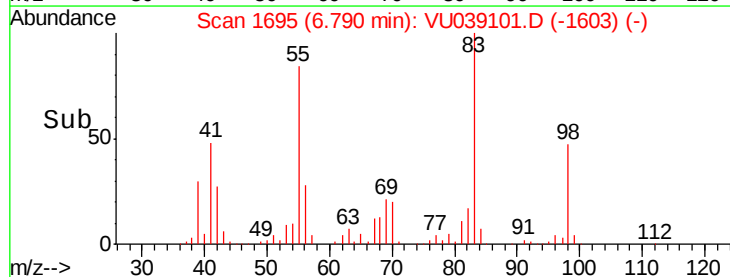
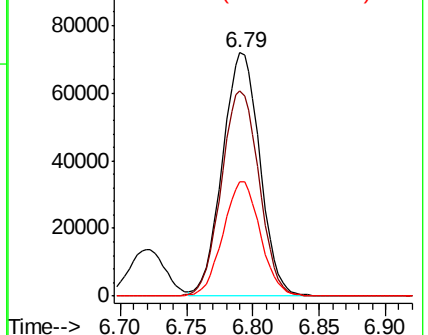


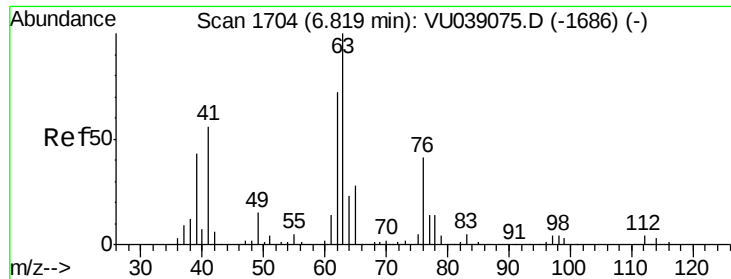
#35
 Methylcyclohexane
 Concen: 4.673 ug/L
 RT: 6.79 min Scan# 1695
 Delta R.T. -0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion: 83 Resp: 141016
 Ion Ratio Lower Upper
 83 100
 55 85.1 65.5 98.3
 98 46.8 36.5 54.7



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

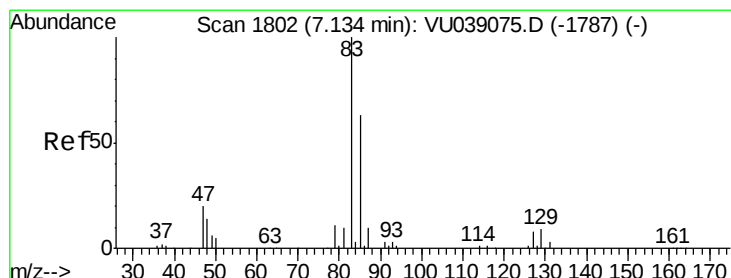
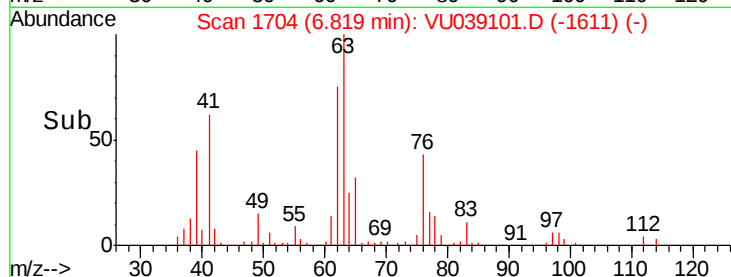
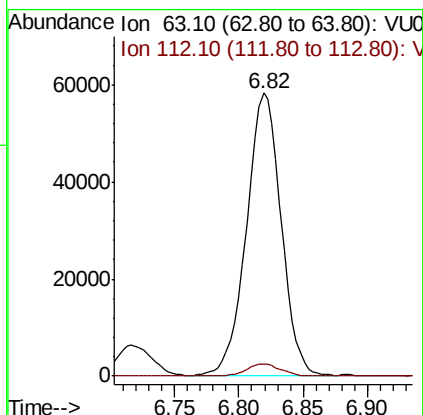
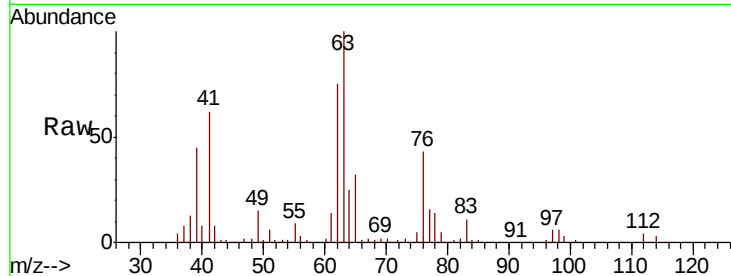




#37
 1,2-Dichloropropane
 Concen: 4.781 ug/L
 RT: 6.82 min Scan# 1704
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

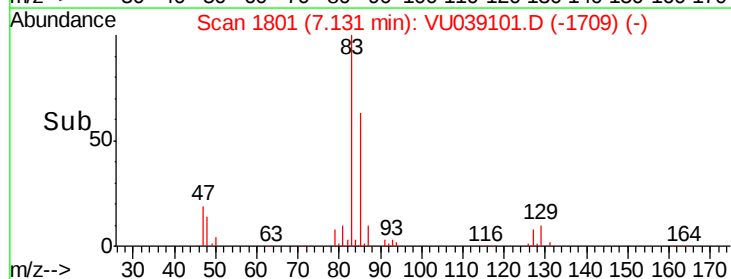
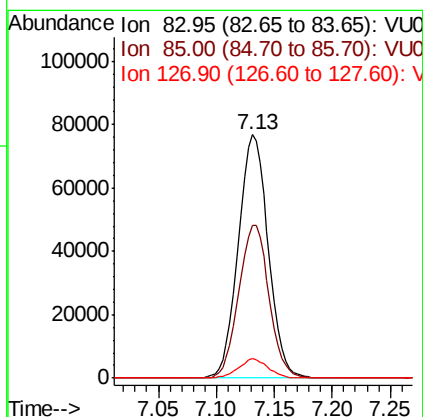
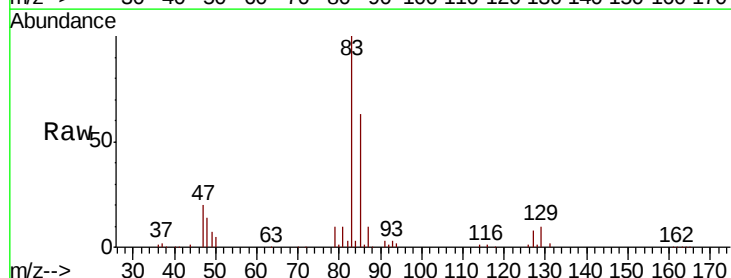
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

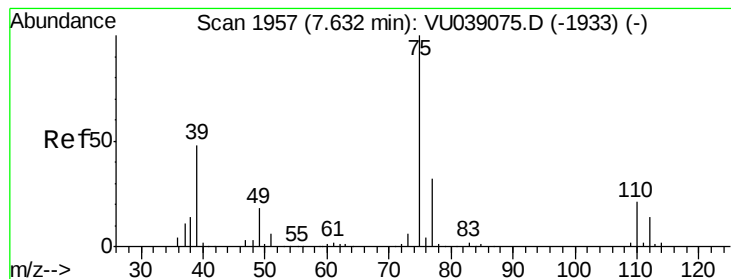
Tot Ion: 63 Resp: 108898
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.4 5.2



#38
 Bromodichloromethane
 Concen: 4.853 ug/L
 RT: 7.13 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion: 83 Resp: 137802
 Ion Ratio Lower Upper
 83 100
 85 62.6 44.9 83.3
 127 8.0 6.3 9.5



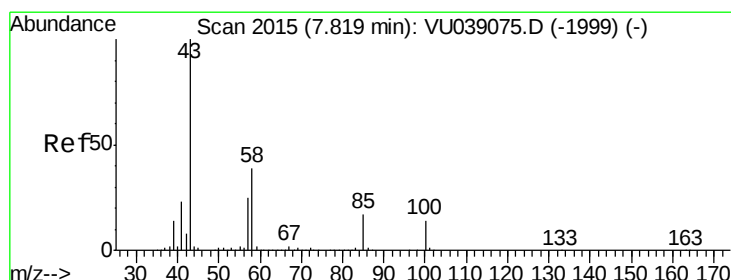
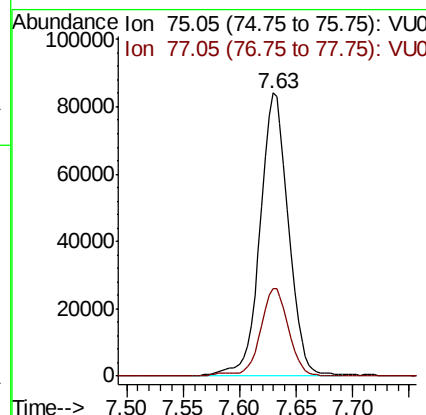
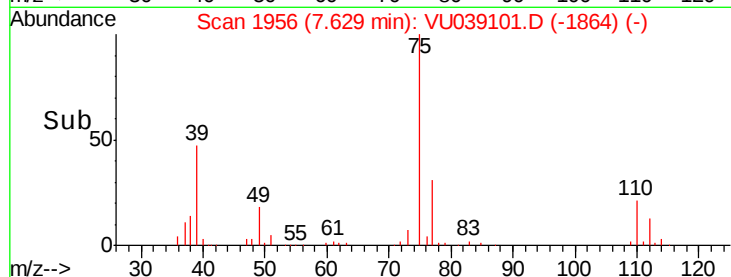
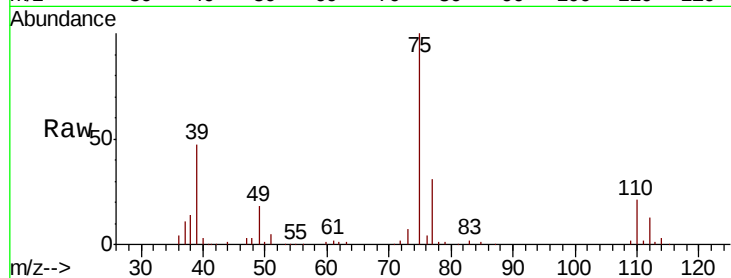


#39

cis-1,3-Dichloropropene
Concen: 4.657 ug/L
RT: 7.63 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

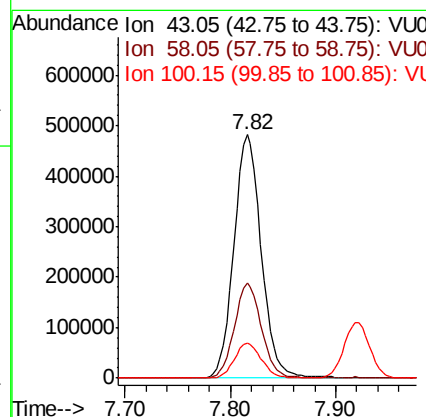
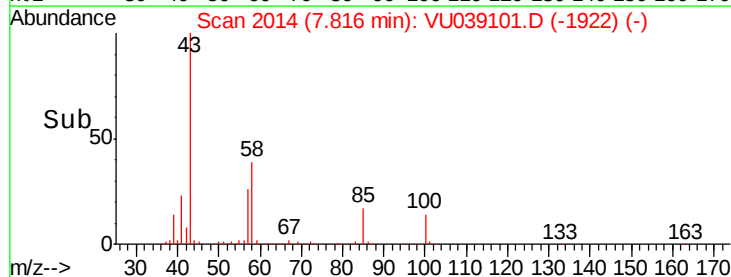
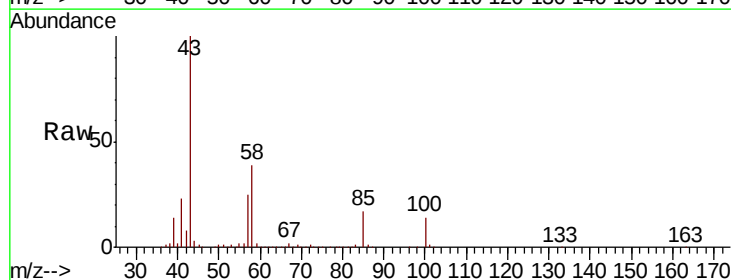
Tot Ion: 75 Resp: 147008
Ion Ratio Lower Upper
75 100
77 30.8 21.6 40.0

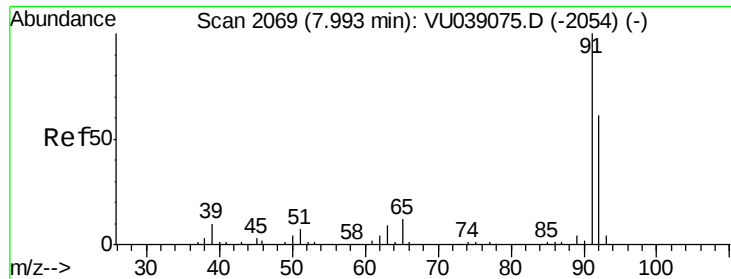


#40

4-Methyl-2-pentanone
Concen: 50.849 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion: 43 Resp: 864418
Ion Ratio Lower Upper
43 100
58 38.6 31.3 46.9
100 14.2 11.6 17.4





#42

Toluene

Concen: 4.878 ug/L

RT: 7.99 min Scan# 2068

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

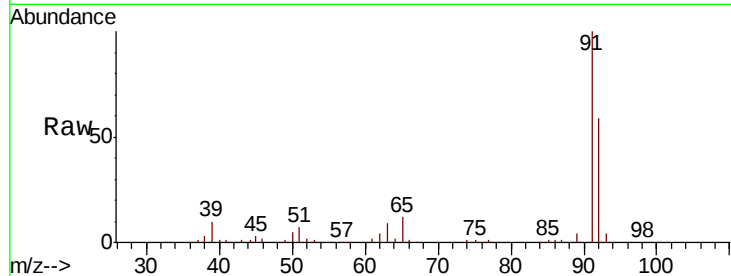
VSTD00515

Tot Ion: 91 Resp: 407023

Ion Ratio Lower Upper

91 100

92 58.6 42.1 78.1



Abundance Ion 91.15 (90.85 to 91.85): VU039075.D (-2054) (-)

Ion 92.15 (91.85 to 92.85): VU039075.D (-2054) (-)

7.99

250000

200000

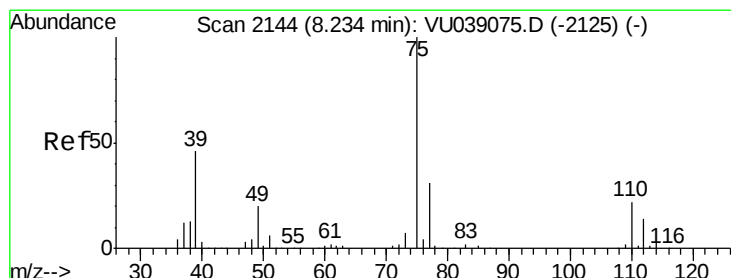
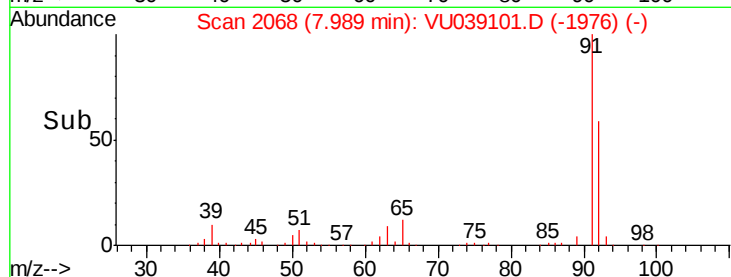
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.565 ug/L

RT: 8.23 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VU039101.D

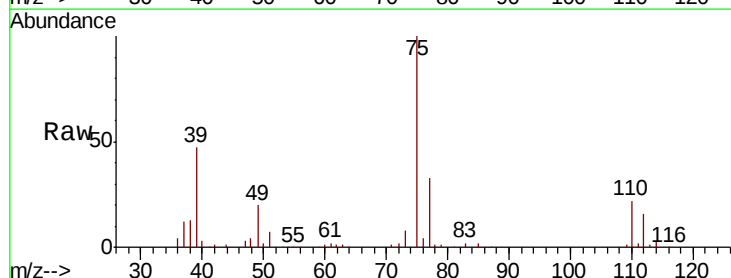
Acq: 25 Jun 2020 07:12

Tgt Ion: 75 Resp: 134860

Ion Ratio Lower Upper

75 100

77 32.7 22.6 42.0



Abundance Ion 75.05 (74.75 to 75.75): VU039075.D (-2125) (-)

Ion 77.05 (76.75 to 77.75): VU039075.D (-2125) (-)

8.23

80000

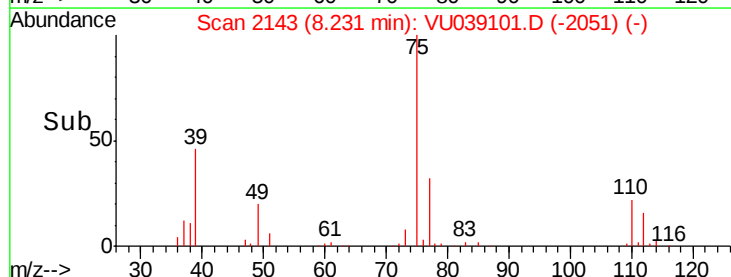
60000

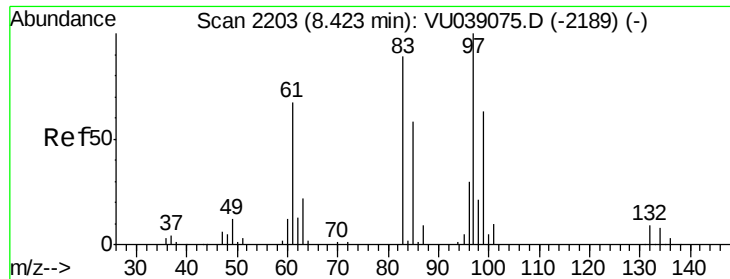
40000

20000

0

Time-->

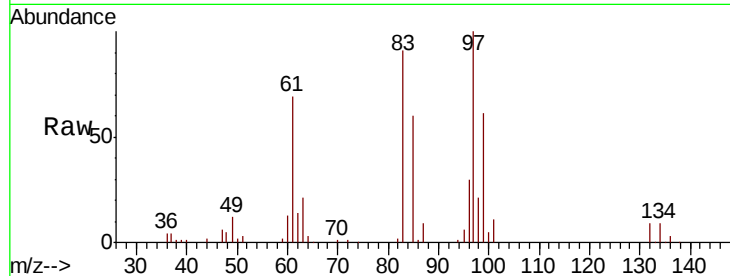




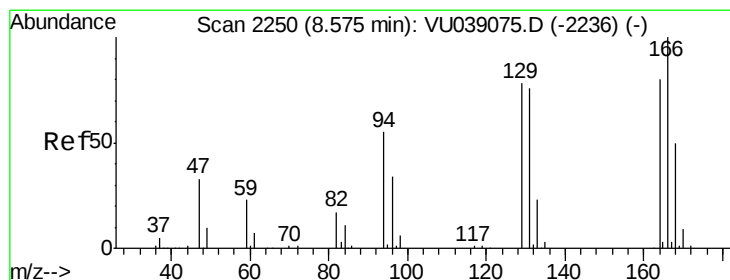
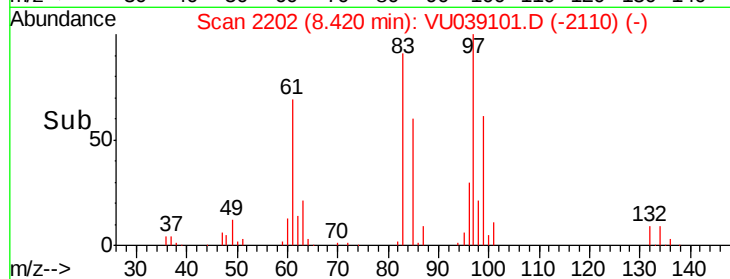
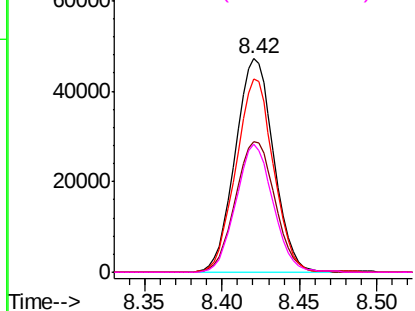
#45
 1,1,2-Trichloroethane
 Concen: 4.816 ug/L
 RT: 8.42 min Scan# 2202
 Delta R.T. -0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion:	97	Resp:	81525
Ion	Ratio	Lower	Upper
97	100		
99	61.2	45.4	84.4
83	90.7	64.4	119.6
85	59.7	41.7	77.5

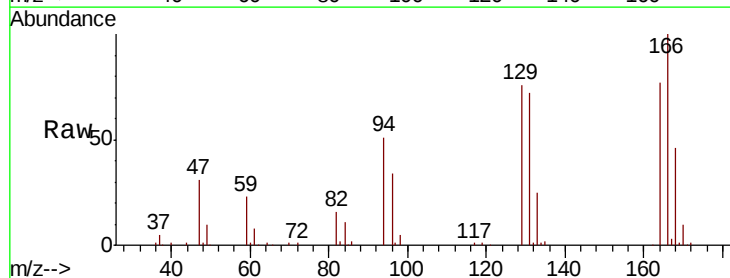


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

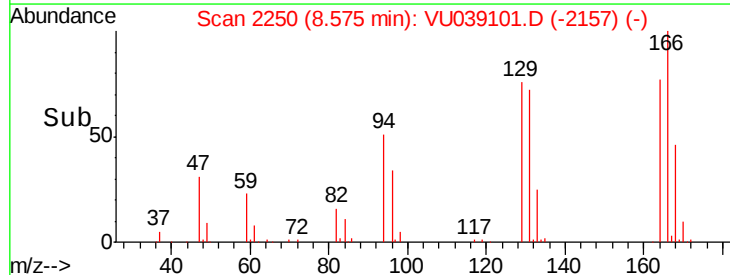
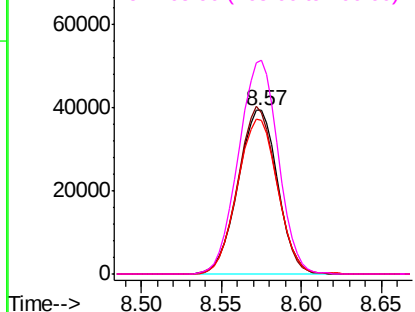


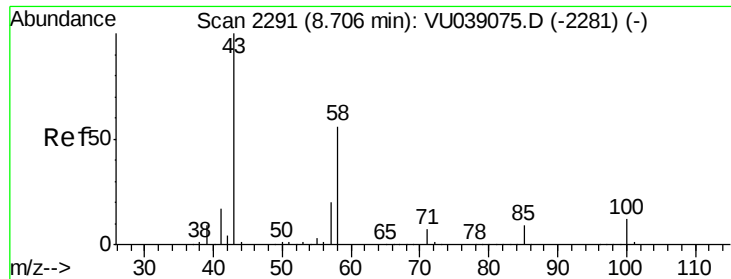
#47
 Tetrachloroethene
 Concen: 4.538 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion:	164	Resp:	66508
Ion	Ratio	Lower	Upper
164	100		
129	98.8	71.3	132.5
131	94.1	68.3	126.8
166	130.5	90.8	168.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

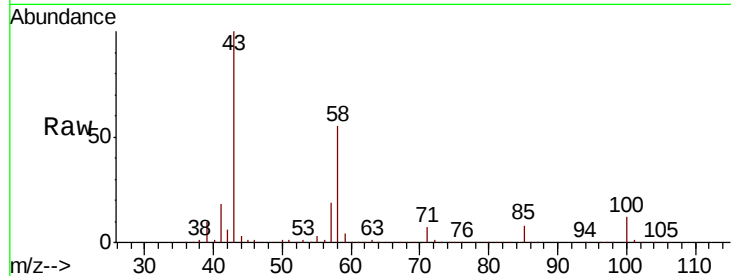




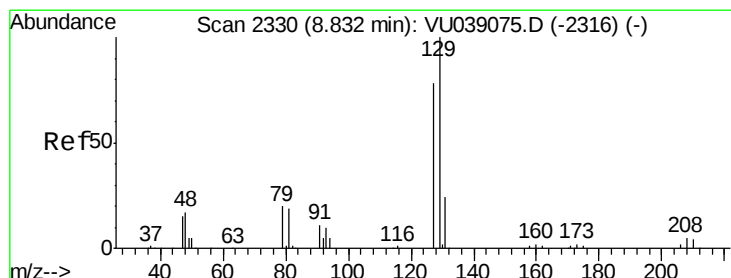
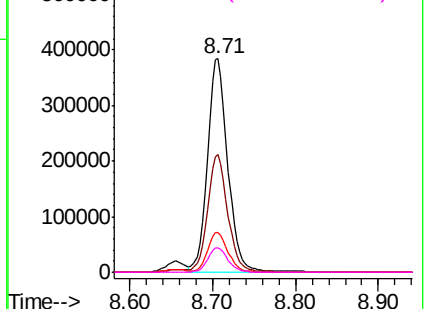
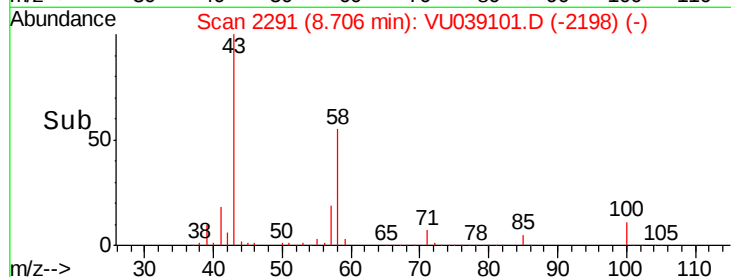
#48
2-Hexanone
Concen: 53.034 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion: 43 Resp: 660933
Ion Ratio Lower Upper
43 100
58 54.8 44.0 66.0
57 18.4 15.0 22.6
100 11.4 9.4 14.2

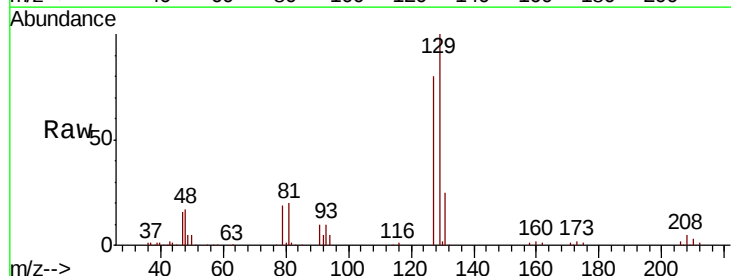


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

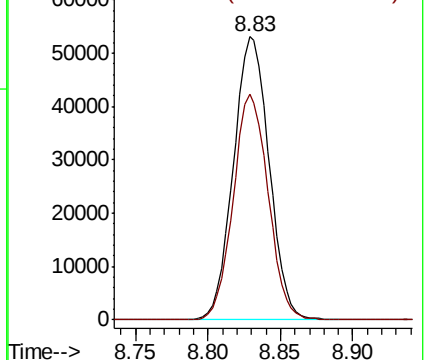
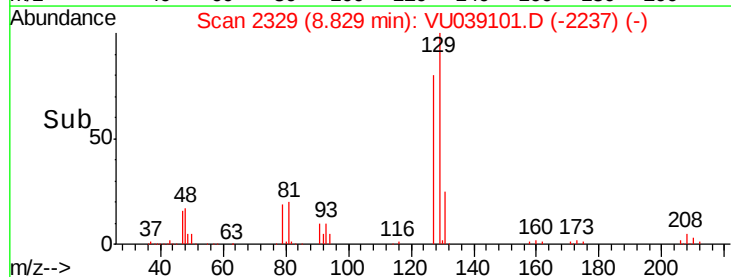


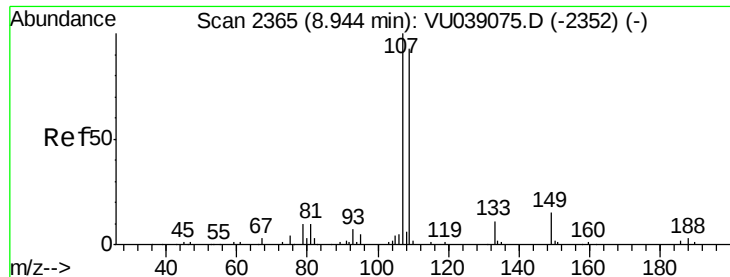
#49
Dibromochloromethane
Concen: 4.942 ug/L
RT: 8.83 min Scan# 2329
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion: 129 Resp: 90978
Ion Ratio Lower Upper
129 100
127 79.6 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

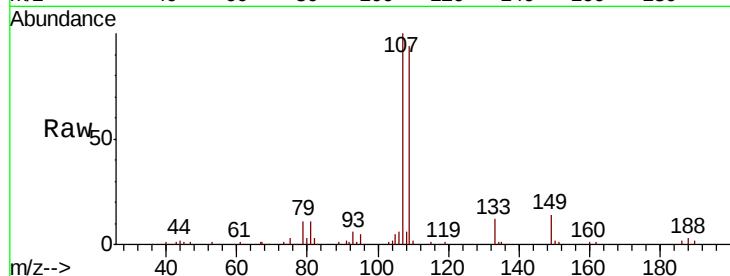




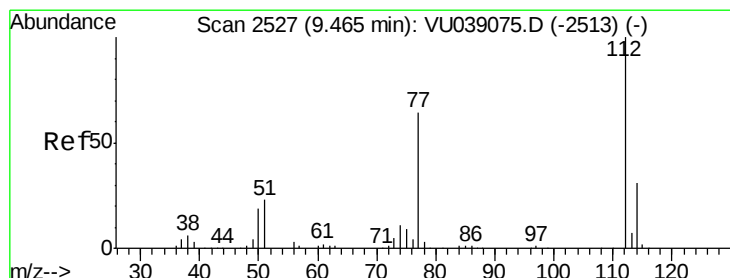
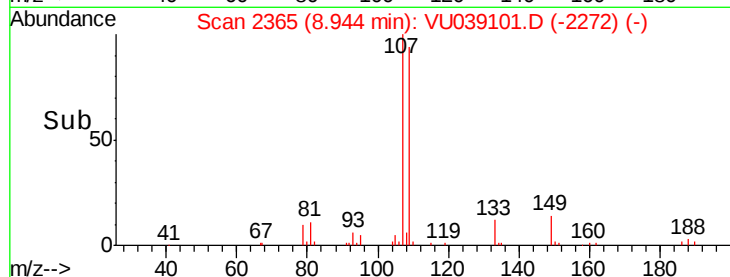
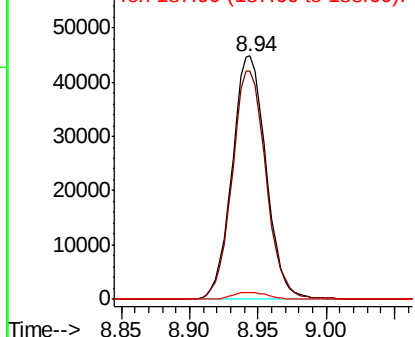
#50
1,2-Dibromoethane
Concen: 4.840 ug/L
RT: 8.94 min Scan# 2365
Delta R.T. 0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion:107 Resp: 77463
Ion Ratio Lower Upper
107 100
109 93.7 64.8 120.4
188 2.9 2.4 3.6

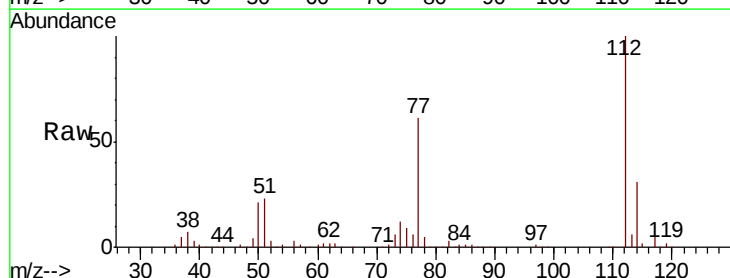


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

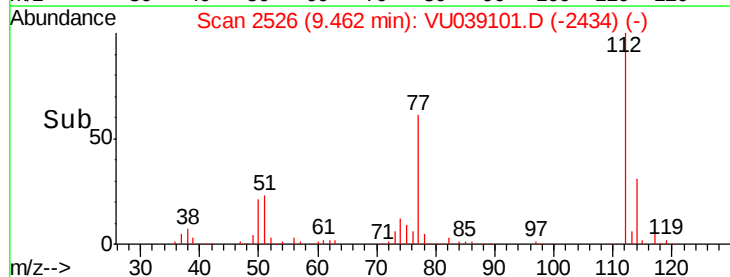
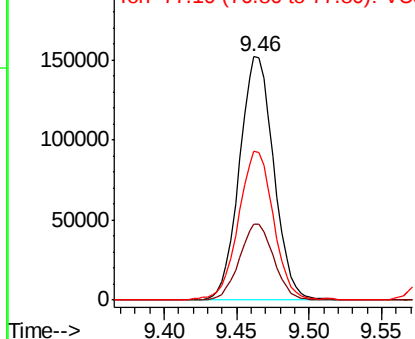


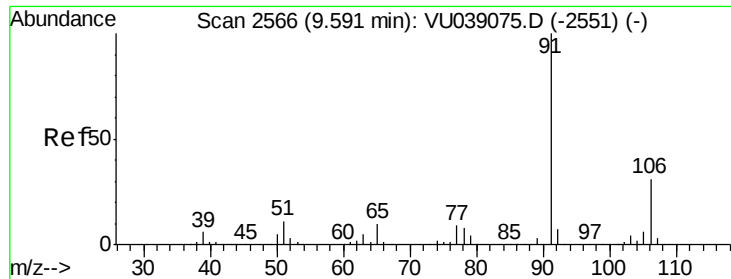
#51
Chlorobenzene
Concen: 4.776 ug/L
RT: 9.46 min Scan# 2526
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion:112 Resp: 250893
Ion Ratio Lower Upper
112 100
114 31.4 22.0 41.0
77 60.9 50.2 75.4



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.711 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

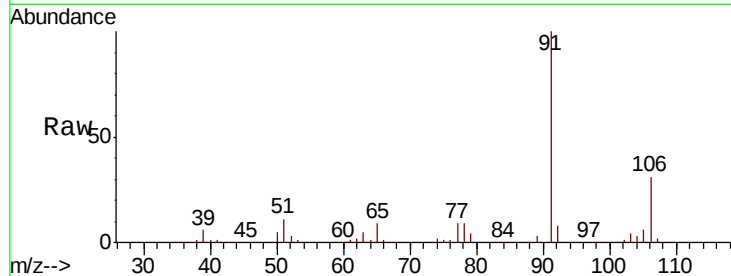
VSTD00515

Tot Ion: 91 Resp: 413204

Ion Ratio Lower Upper

91 100

106 31.0 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039101.D (-2551) (-)

Ion 106.15 (105.85 to 106.85): VU039101.D (-2473) (-)

9.59

250000

200000

150000

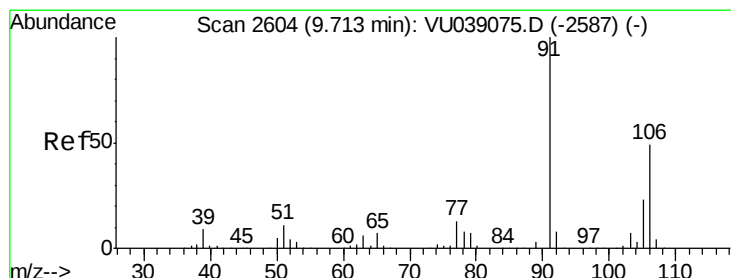
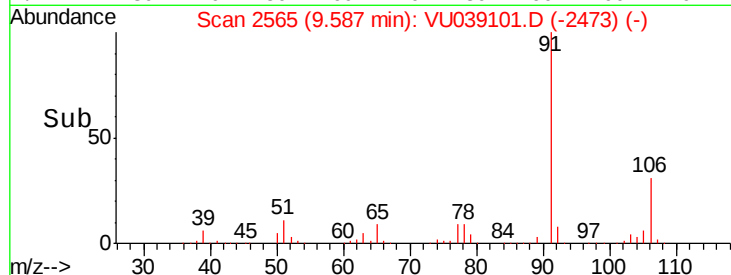
100000

50000

0

9.50 9.55 9.60 9.65

Time-->



#53

m,p-Xylene

Concen: 4.970 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VU039101.D

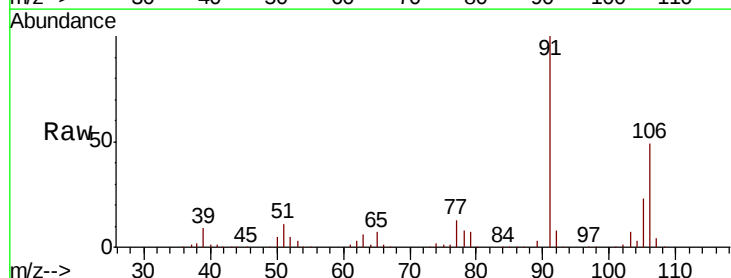
Acq: 25 Jun 2020 07:12

Tgt Ion: 106 Resp: 160305

Ion Ratio Lower Upper

106 100

91 205.1 143.6 266.8



Abundance Ion 106.15 (105.85 to 106.85): VU039101.D (-2511) (-)

Ion 91.15 (90.85 to 91.85): VU039101.D (-2511) (-)

9.71

200000

150000

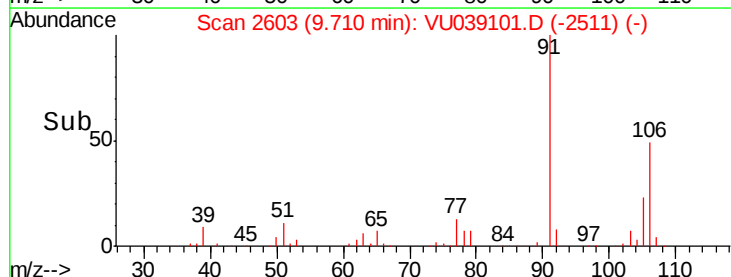
100000

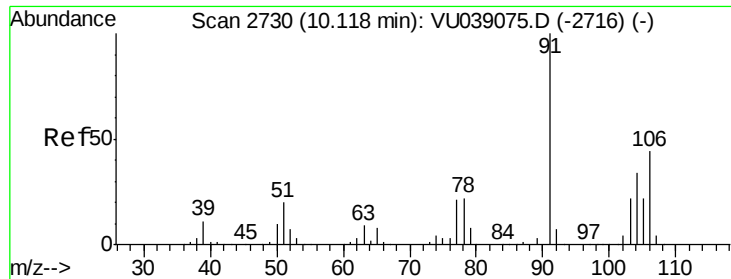
50000

0

9.60 9.70 9.80

Time-->

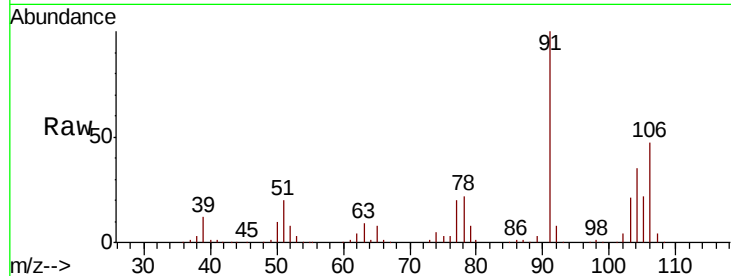




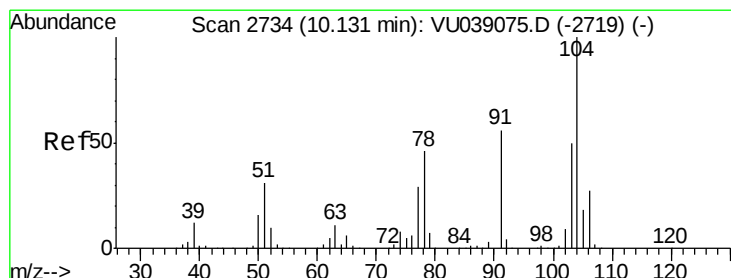
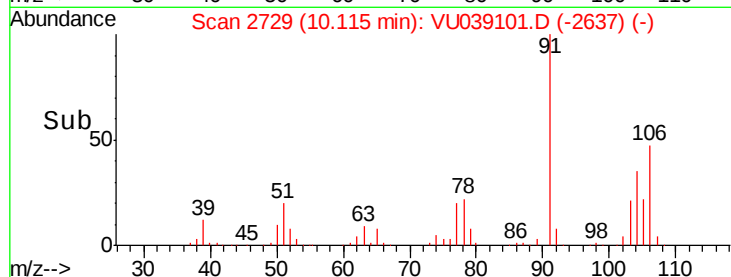
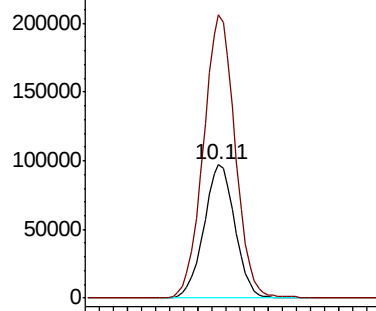
#54
o-Xylene
Concen: 4.831 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Instrument :
MSVOA_U
ClientSampleId :
VSTD00515

Tot Ion:106 Resp: 149693
Ion Ratio Lower Upper
106 100
91 212.7 153.5 285.1

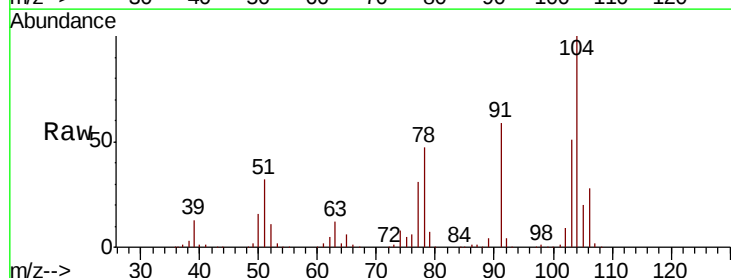


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

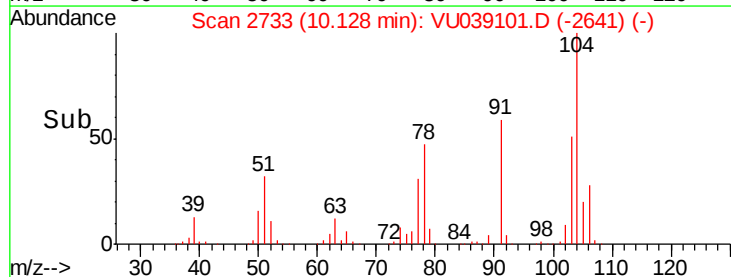
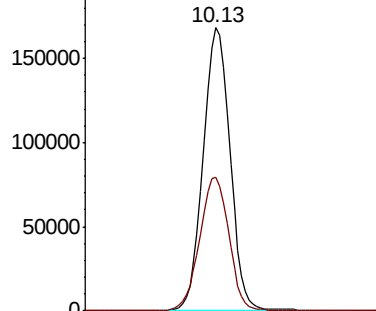


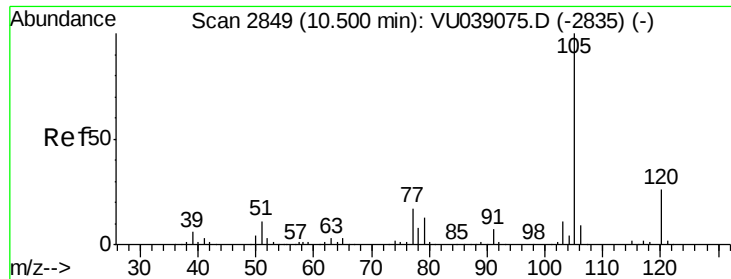
#55
Styrene
Concen: 4.946 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU039101.D
Acq: 25 Jun 2020 07:12

Tgt Ion:104 Resp: 269108
Ion Ratio Lower Upper
104 100
78 47.0 33.5 62.1



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 4.812 ug/L

RT: 10.50 min Scan# 2848

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

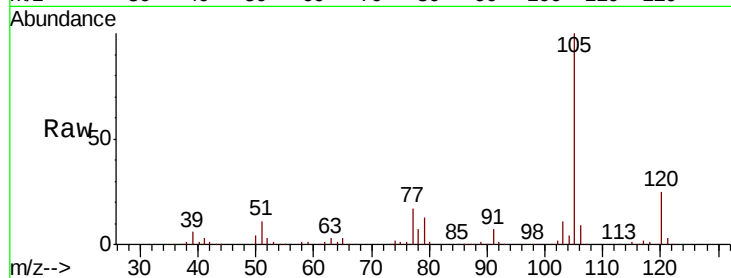
Tot Ion:105 Resp: 390677

Ion Ratio Lower Upper

105 100

120 25.5 19.9 29.9

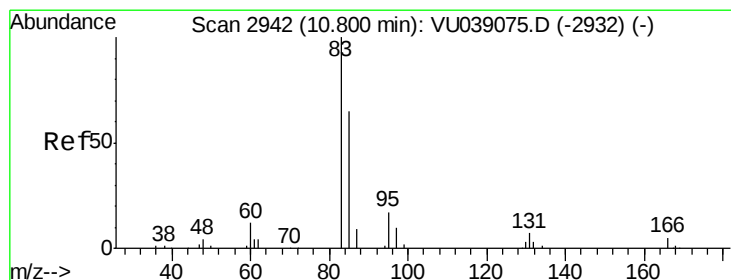
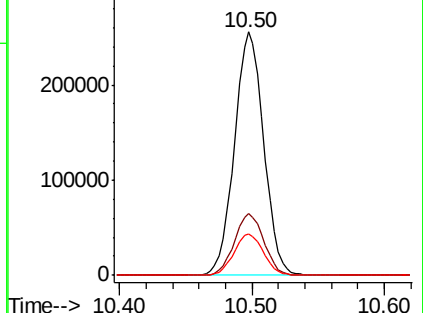
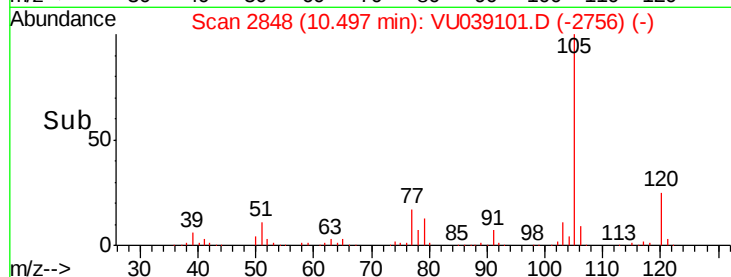
77 17.2 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.788 ug/L

RT: 10.80 min Scan# 2941

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

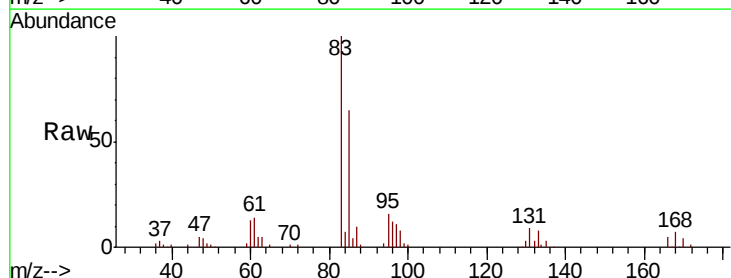
Tgt Ion: 83 Resp: 108368

Ion Ratio Lower Upper

83 100

85 65.0 45.3 84.1

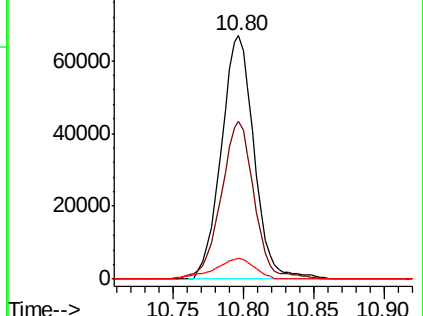
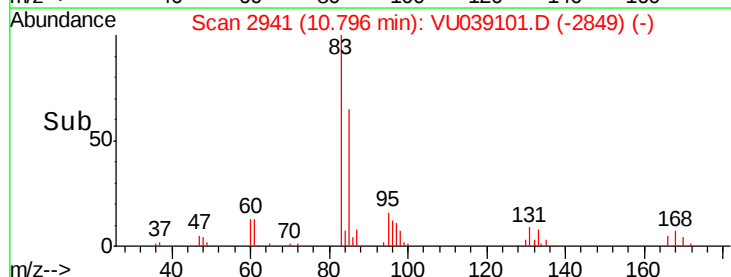
131 8.6 6.9 10.3

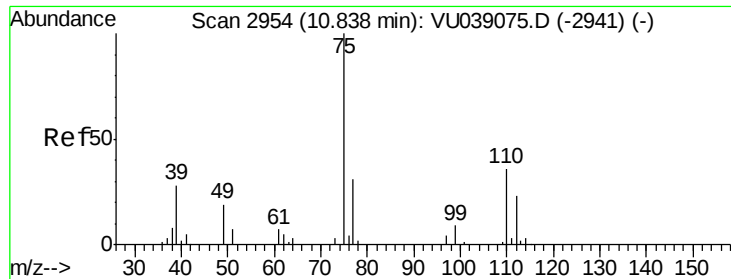


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.807 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

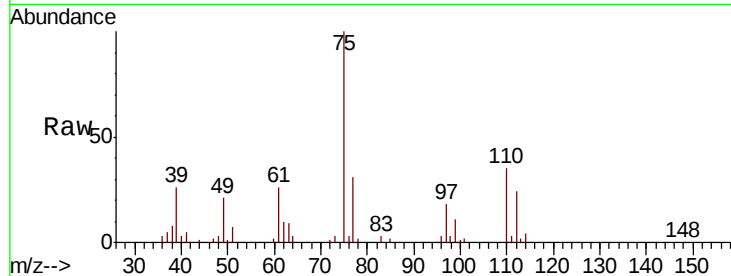
VSTD00515

Tot Ion: 75 Resp: 82542

Ion Ratio Lower Upper

75 100

77 32.5 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU039075.D (-2941) (-)

Ion 77.00 (76.70 to 77.70): VU039075.D (-2941) (-)

10.84

60000

50000

40000

30000

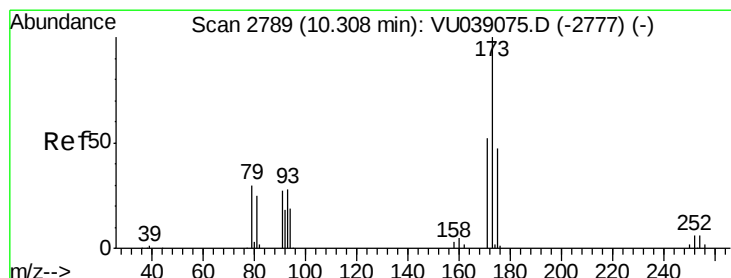
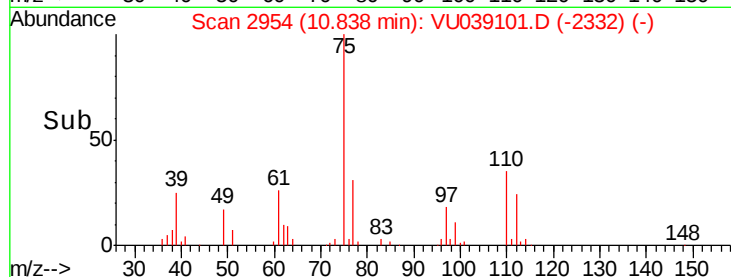
20000

10000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 4.720 ug/L

RT: 10.30 min Scan# 2788

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

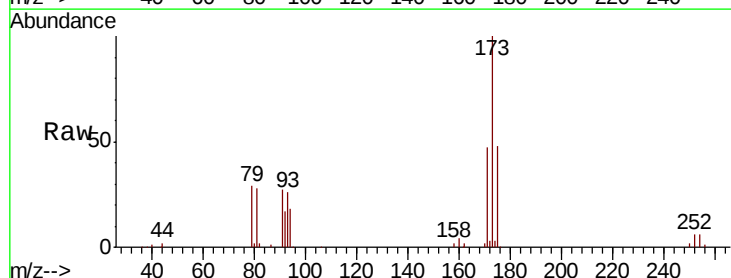
Tgt Ion: 173 Resp: 51500

Ion Ratio Lower Upper

173 100

175 47.1 39.3 58.9

254 6.0 4.4 6.6



Abundance Ion 172.90 (172.60 to 173.60): VU039075.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU039075.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU039075.D (-2777) (-)

10.30

40000

30000

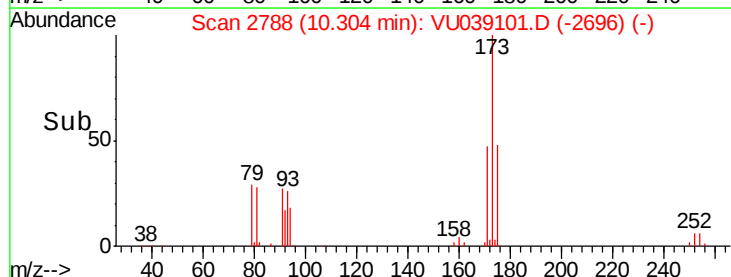
20000

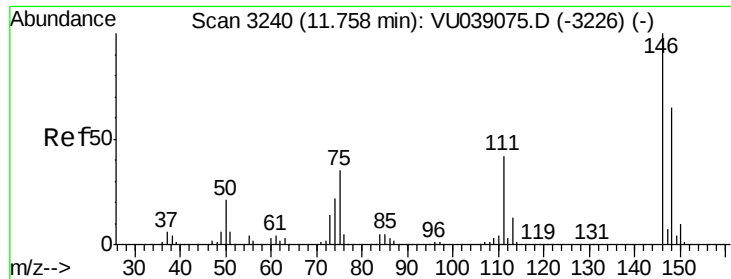
10000

0

Time-->

10.25 10.30 10.35

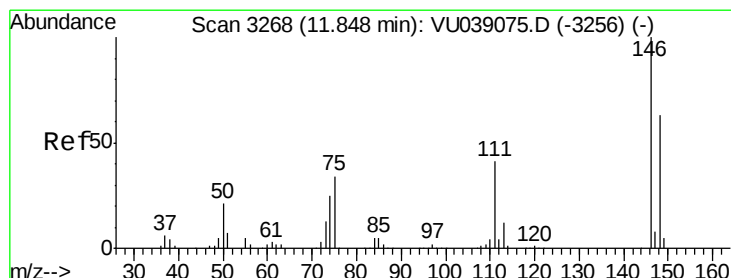
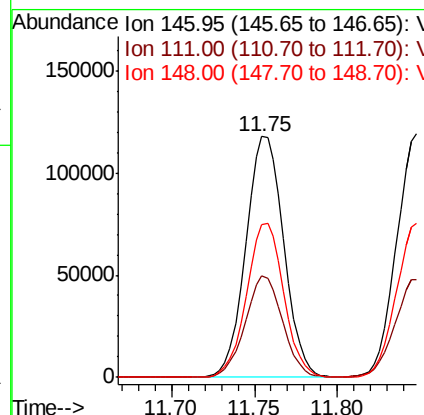
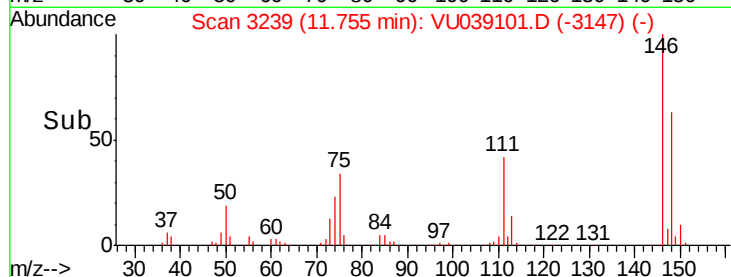
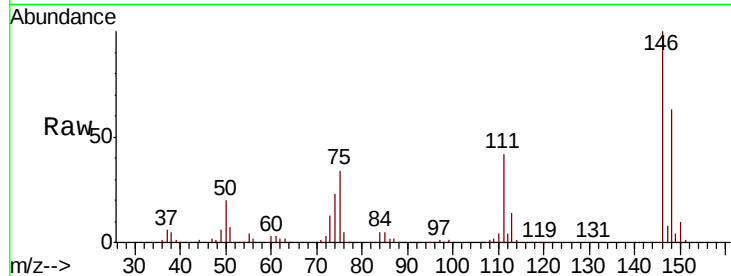




#62
 1,3-Dichlorobenzene
 Concen: 4.714 ug/L
 RT: 11.75 min Scan# 3239
 Delta R.T. -0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

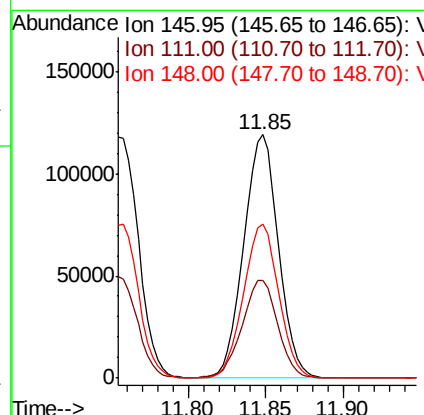
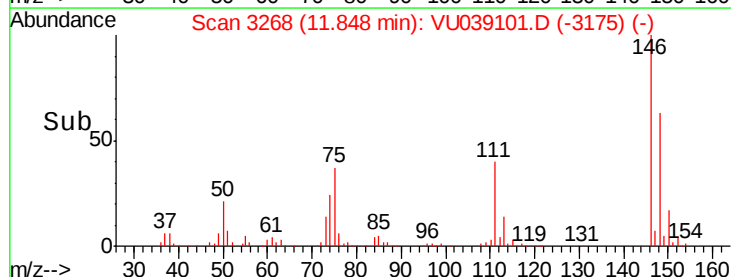
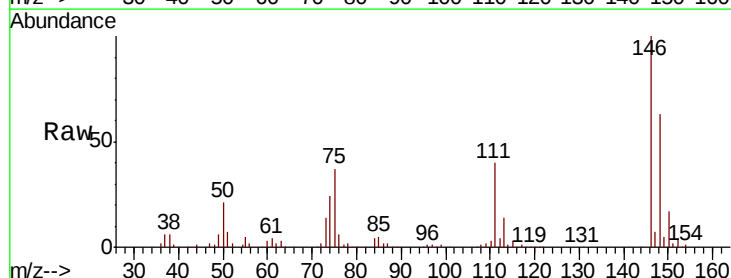
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD00515

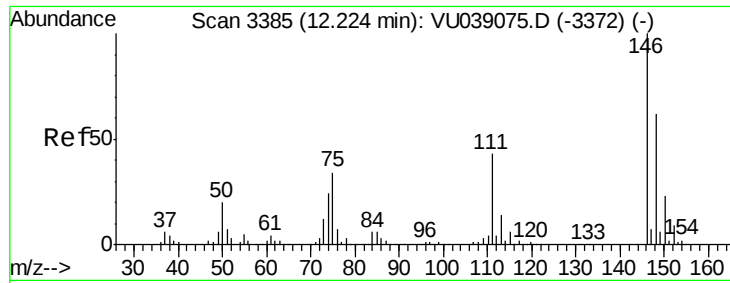
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	29.5	54.9
148	63.3	44.5	82.7



#63
 1,4-Dichlorobenzene
 Concen: 4.544 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. 0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	28.4	52.8
148	63.1	43.4	80.6





#65

1,2-Dichlorobenzene

Concen: 4.516 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. 0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

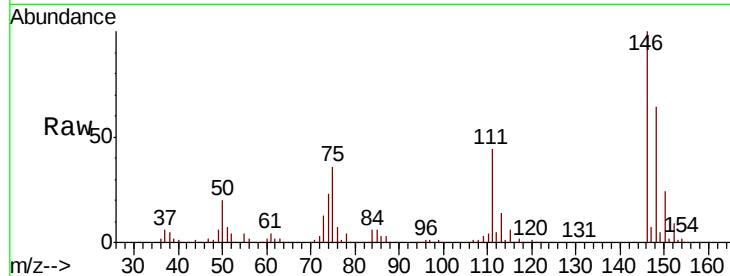
Tot Ion:146 Resp: 179844

Ion Ratio Lower Upper

146 100

111 44.5 34.7 52.1

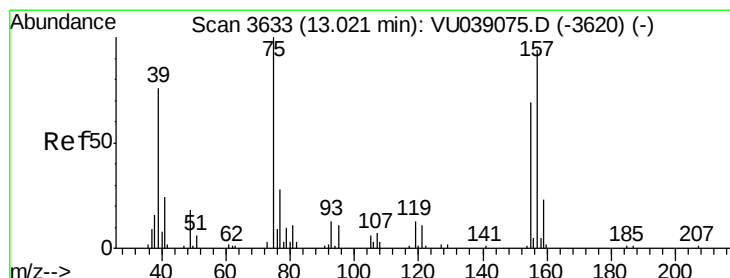
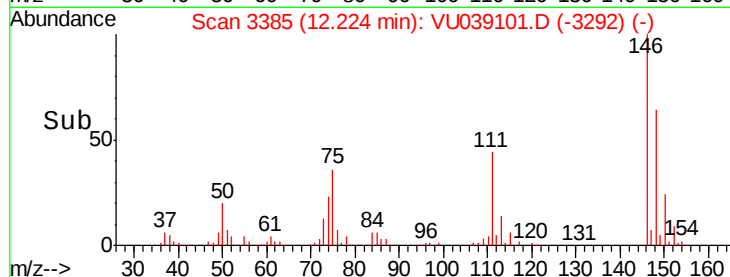
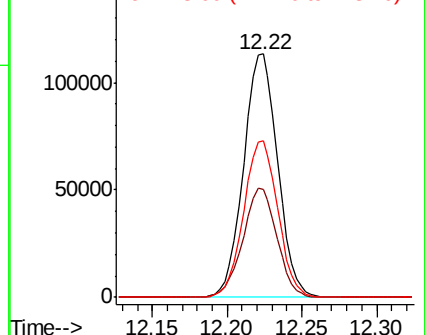
148 64.1 50.9 76.3



Abundance Ion 145.95 (145.65 to 146.65): 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: 4.584 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.01 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

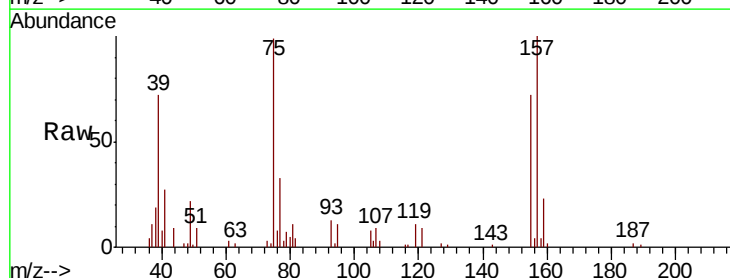
Tgt Ion: 75 Resp: 20139

Ion Ratio Lower Upper

75 100

155 72.7 58.6 88.0

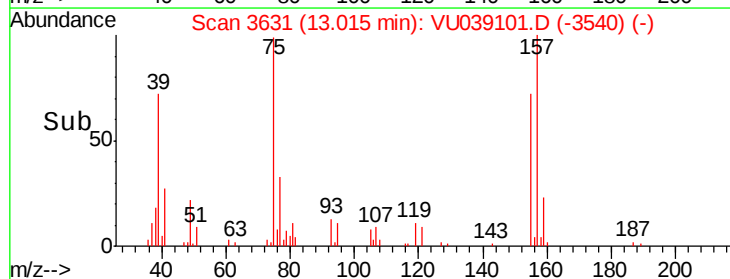
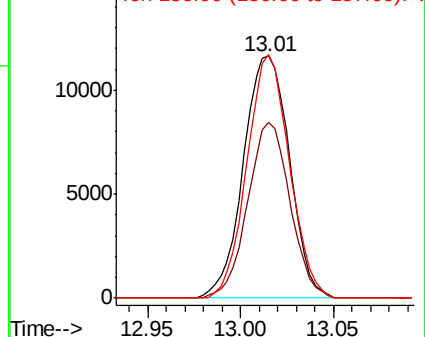
157 100.5 70.3 105.5

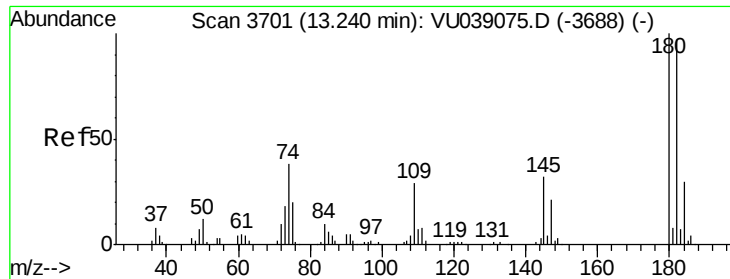


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

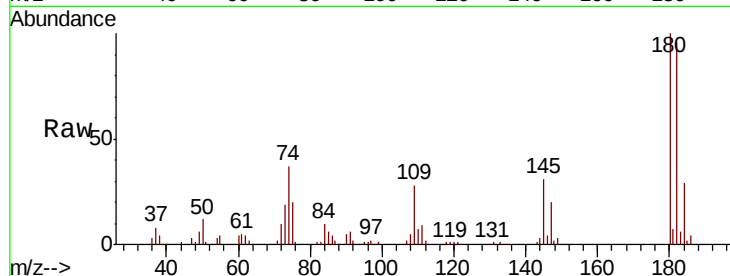




#67
 1,3,5-Trichlorobenzene
 Concen: 4.384 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00515

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.3	114.5
184	30.0	24.2	36.4
145	31.1	25.2	37.8



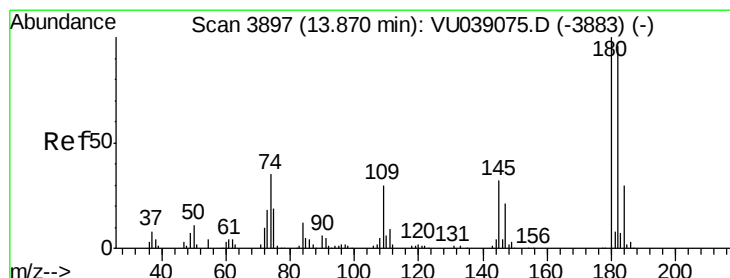
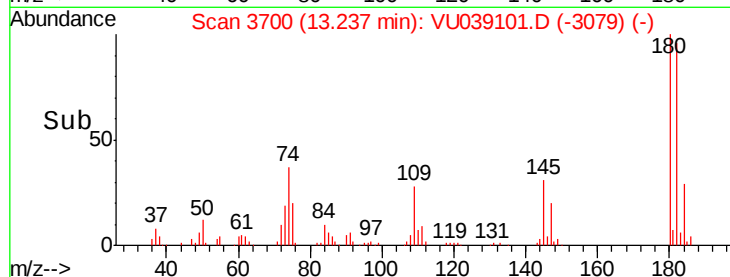
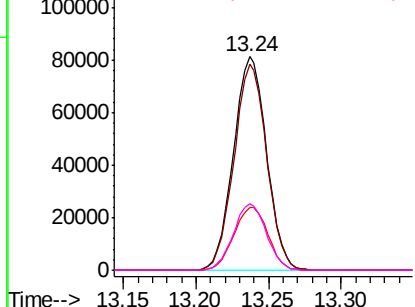
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

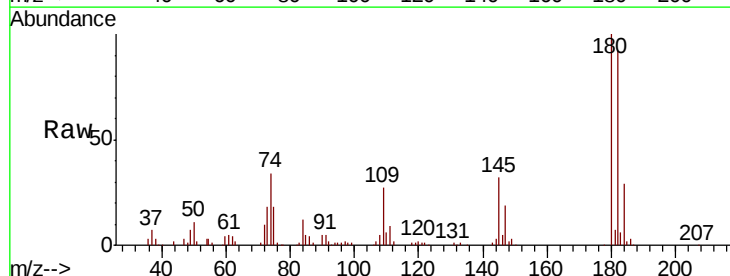
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.290 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.01 min
 Lab File: VU039101.D
 Acq: 25 Jun 2020 07:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.0	115.6
145	31.6	25.4	38.2

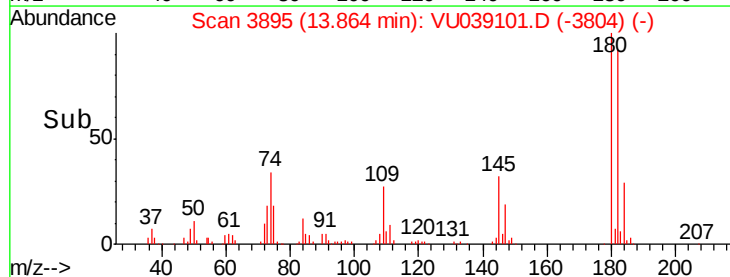
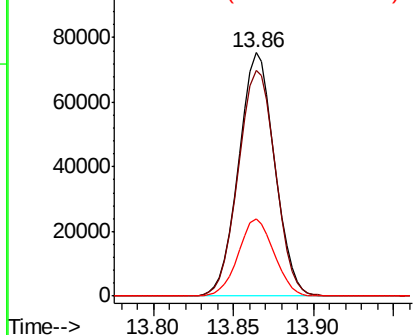


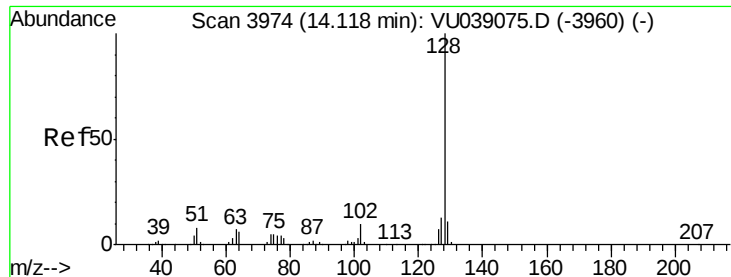
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.089 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

Instrument :

MSVOA_U

ClientSampleId :

VSTD00515

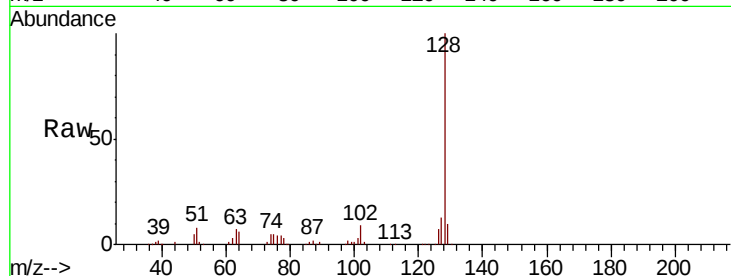
Tot Ion:128 Resp: 233569

Ion Ratio Lower Upper

128 100

129 10.5 8.9 13.3

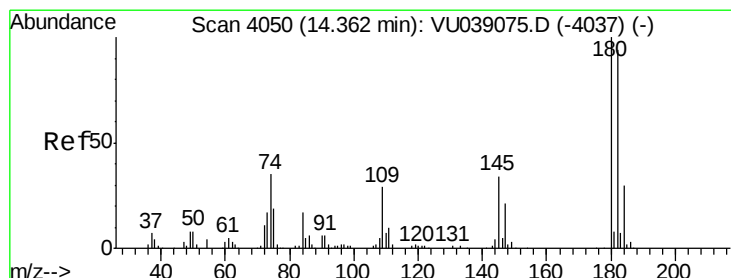
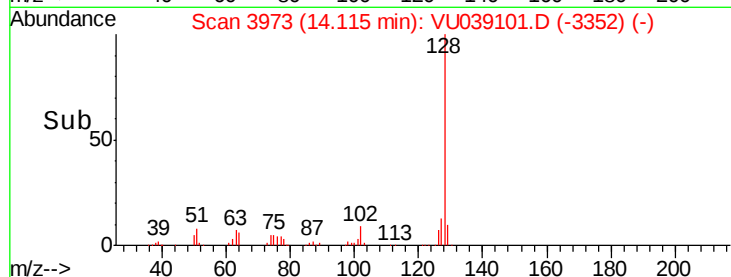
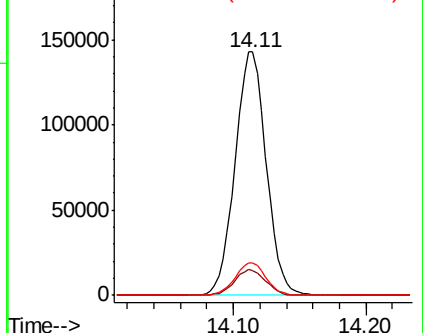
127 13.0 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.292 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU039101.D

Acq: 25 Jun 2020 07:12

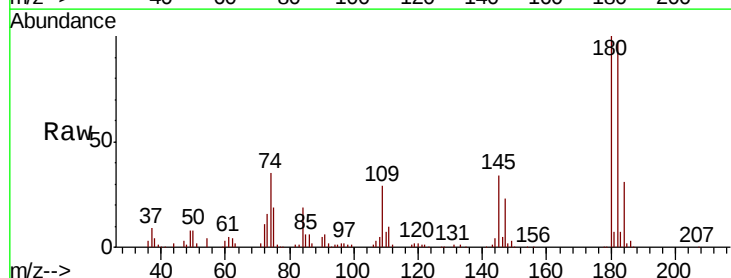
Tgt Ion:180 Resp: 110923

Ion Ratio Lower Upper

180 100

182 97.1 75.8 113.6

145 34.7 27.6 41.4



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

