

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U070920\
 Data File : VU039422.D
 Acq On : 10 Jul 2020 02:38
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Quant Time: Jul 10 02:57:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR070720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 10 02:02:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	105138	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	98017	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	49369	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	23425	3.85	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.00%
7) Chloroethane-d5	1.92	69	34394	5.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.40%
11) 1,1-Dichloroethene-d2	2.58	63	50816	4.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.80%
20) 2-Butanone-d5	4.65	46	167376	60.03	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.06%
24) Chloroform-d	5.08	84	63333	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.72	65	40653	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.74	84	105347	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.71	67	40683	4.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.20%
41) Toluene-d8	7.91	98	82290	4.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.40%
43) trans-1,3-Dichloropropene-	8.19	79	16007	4.37	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.40%
46) 2-Hexanone-d5	8.64	63	127098	58.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.06%
57) 1,1,2,2-Tetrachloroethane-	10.76	84	44123	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	39824	4.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	33591	5.271	ug/L	97
3) Chloromethane	1.53	50	36214	4.691	ug/L	96
5) Vinyl chloride	1.61	62	43038	5.020	ug/L	98
6) Bromomethane	1.87	94	18448	4.997	ug/L	92
8) Chloroethane	1.94	64	34826	5.623	ug/L	97
9) Trichlorofluoromethane	2.15	101	72853	4.894	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	31180	5.104	ug/L	99
12) 1,1-Dichloroethene	2.59	96	31257	4.999	ug/L	88
13) Acetone	2.66	43	71781	47.696	ug/L	99
14) Carbon disulfide	2.81	76	102249	4.642	ug/L	97
15) Methyl Acetate	2.97	43	19522	4.911	ug/L	93
16) Methylene chloride	3.06	84	37527	4.771	ug/L	98
17) Methyl tert-butyl Ether	3.38	73	94629	4.803	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	33370	4.821	ug/L	91
19) 1,1-Dichloroethane	3.89	63	65155	4.811	ug/L	99
21) 2-Butanone	4.73	43	126652	47.150	ug/L	99
22) cis-1,2-Dichloroethene	4.69	96	38079	4.906	ug/L	96

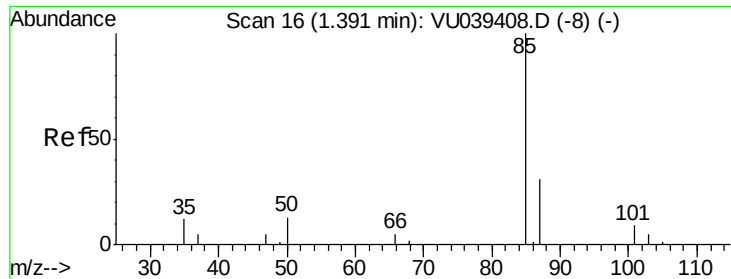
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070920\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.00	128	16628	4.716	ug/L	98
25) Chloroform	5.11	83	69195	5.059	ug/L	99
27) 1,2-Dichloroethane	5.81	62	48412	4.893	ug/L	100
29) 1,1,1-Trichloroethane	5.34	97	59718	5.173	ug/L	97
30) Cyclohexane	5.41	56	60953	5.015	ug/L	97
31) Carbon tetrachloride	5.54	117	50153	5.092	ug/L	96
33) Benzene	5.79	78	144578	4.934	ug/L	100
34) Trichloroethene	6.56	95	36617	4.833	ug/L	95
35) Methylcyclohexane	6.78	83	58437	4.815	ug/L	98
37) 1,2-Dichloropropane	6.81	63	39099	4.894	ug/L #	98
38) Bromodichloromethane	7.12	83	49195	4.822	ug/L	99
39) cis-1,3-Dichloropropene	7.62	75	57558	4.766	ug/L	97
40) 4-Methyl-2-pentanone	7.80	43	322000	48.318	ug/L	97
42) Toluene	7.98	91	158232	5.042	ug/L	99
44) trans-1,3-Dichloropropene	8.22	75	50048	4.671	ug/L	95
45) 1,1,2-Trichloroethane	8.41	97	28129	4.902	ug/L	94
47) Tetrachloroethene	8.56	164	26494	5.028	ug/L	97
48) 2-Hexanone	8.69	43	232809	47.379	ug/L	98
49) Dibromochloromethane	8.82	129	33361	4.800	ug/L	98
50) 1,2-Dibromoethane	8.93	107	27126	4.653	ug/L #	93
51) Chlorobenzene	9.45	112	96435	5.029	ug/L	97
52) Ethylbenzene	9.57	91	173014	4.989	ug/L	99
53) m,p-Xylene	9.70	106	64056	4.902	ug/L	100
54) o-Xylene	10.10	106	62983	4.951	ug/L	100
55) Styrene	10.11	104	104346	4.714	ug/L	96
56) Isopropylbenzene	10.48	105	170859	4.966	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	38056	4.765	ug/L	99
59) 1,2,3-Trichloropropane	10.83	75	27365	4.648	ug/L	99
61) Bromoform	10.29	173	18731	4.502	ug/L	97
62) 1,3-Dichlorobenzene	11.74	146	72780	4.704	ug/L	100
63) 1,4-Dichlorobenzene	11.83	146	74486	4.799	ug/L	96
65) 1,2-Dichlorobenzene	12.21	146	72109	4.650	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	6014	4.390	ug/L	87
67) 1,3,5-Trichlorobenzene	13.21	180	54039	4.668	ug/L	99
68) 1,2,4-trichlorobenzene	13.83	180	47539	4.799	ug/L	97
69) Naphthalene	14.08	128	90049	4.517	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	42168	4.594	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.271 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

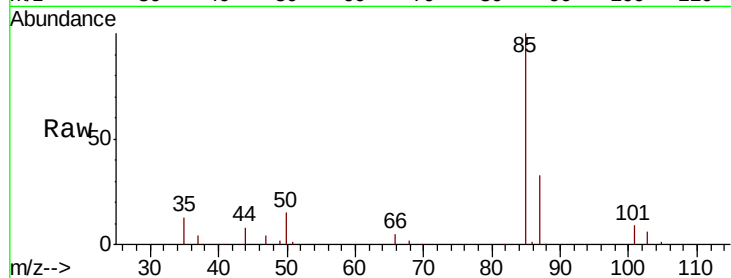
VSTD00513

Tot Ion: 85 Resp: 33591

Ion Ratio Lower Upper

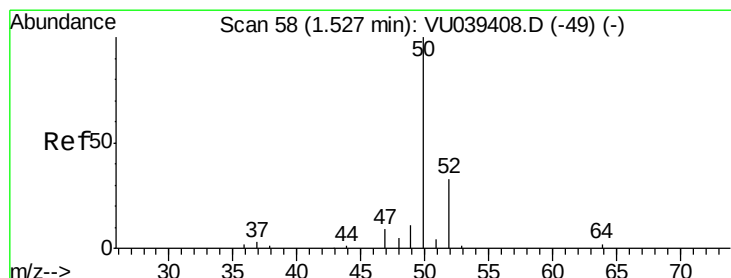
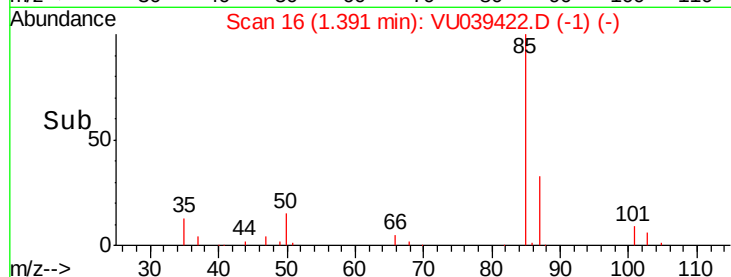
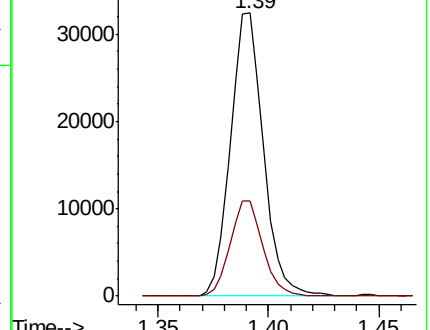
85 100

87 33.3 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU039408.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039408.D (-8) (-)



#3

Chloromethane

Concen: 4.691 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU039422.D

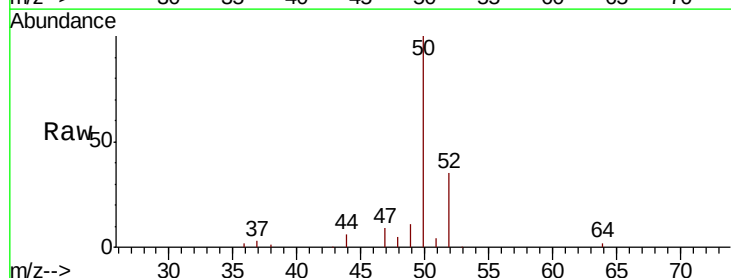
Acq: 10 Jul 2020 02:38

Tgt Ion: 50 Resp: 36214

Ion Ratio Lower Upper

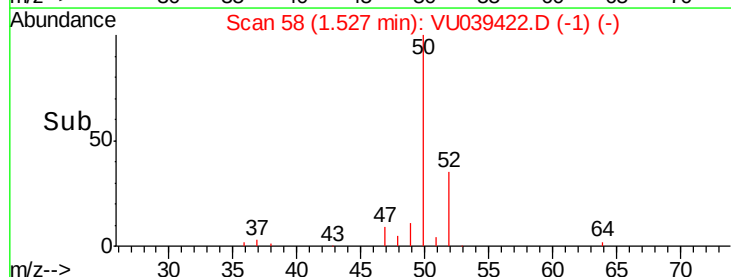
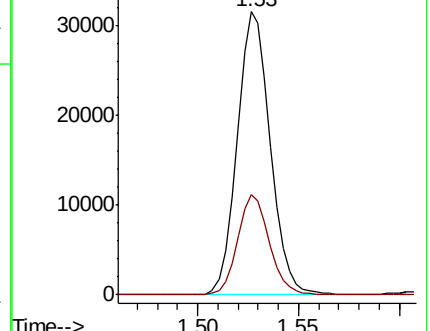
50 100

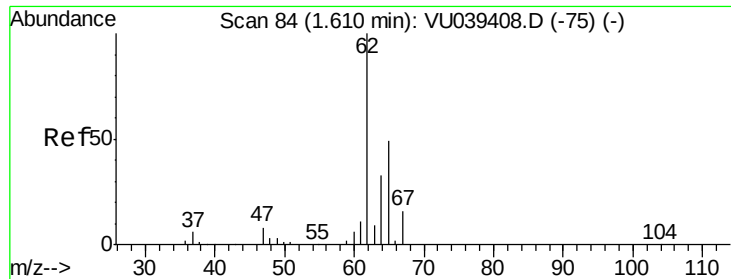
52 35.3 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU039408.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU039408.D (-49) (-)





#5

Vinyl chloride

Concen: 5.020 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

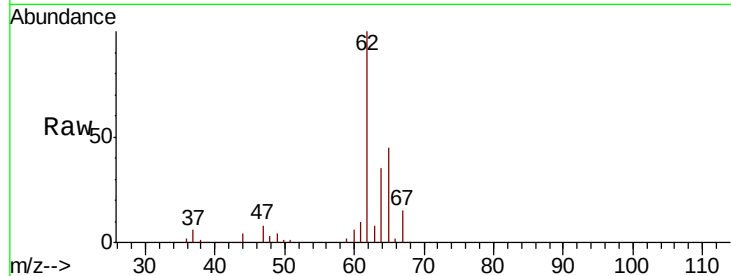
VSTD00513

Tot Ion: 62 Resp: 43038

Ion Ratio Lower Upper

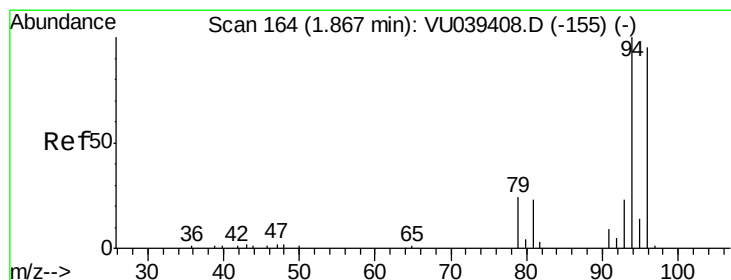
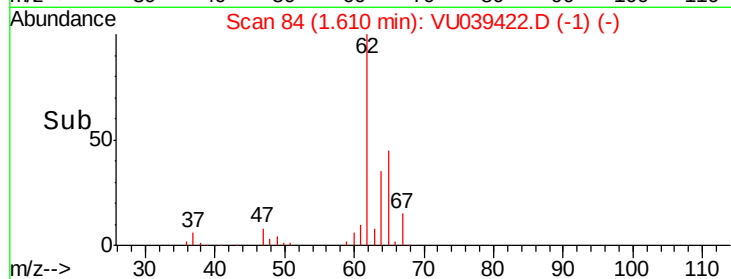
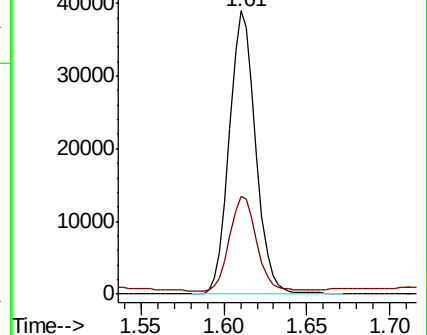
62 100

64 34.8 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU039408.D (-75) (-)

Ion 64.10 (63.80 to 64.80): VU039408.D (-75) (-)



#6

Bromomethane

Concen: 4.997 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039422.D

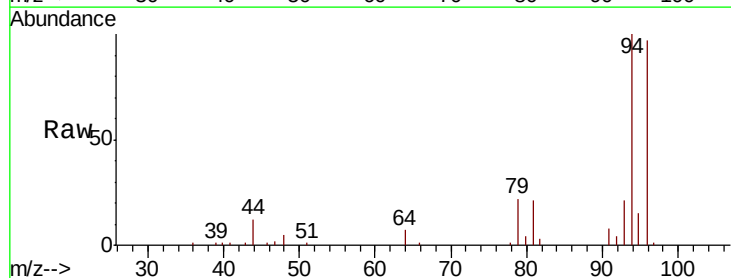
Acq: 10 Jul 2020 02:38

Tgt Ion: 94 Resp: 18448

Ion Ratio Lower Upper

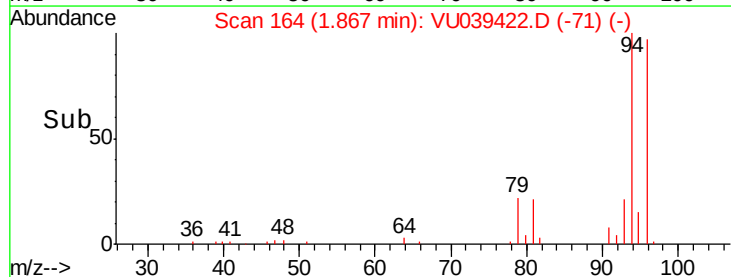
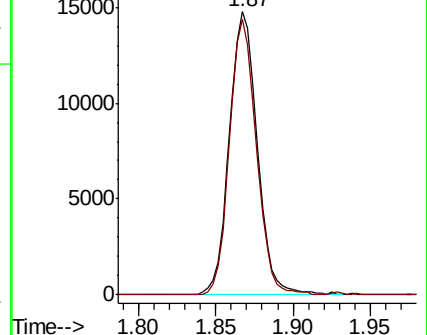
94 100

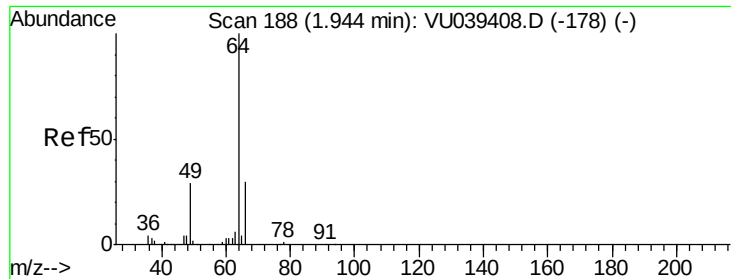
96 97.3 62.7 116.5



Abundance Ion 94.00 (93.70 to 94.70): VU039408.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU039408.D (-155) (-)





#8

Chloroethane

Concen: 5.623 ug/L

RT: 1.94 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

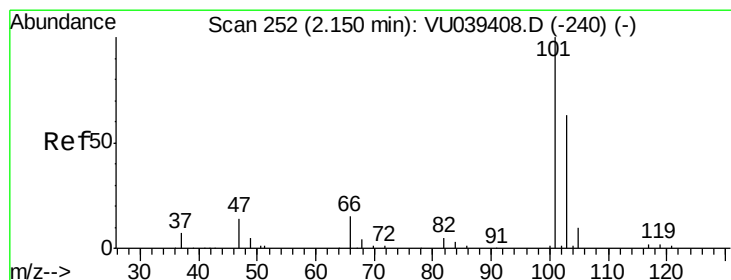
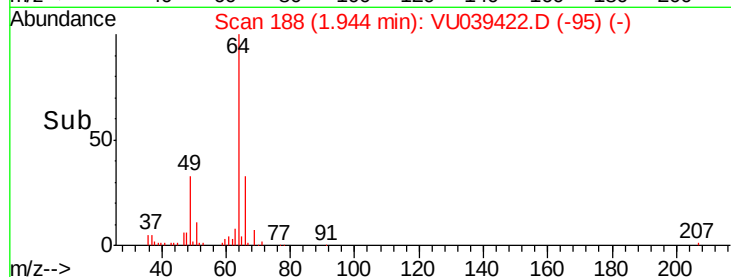
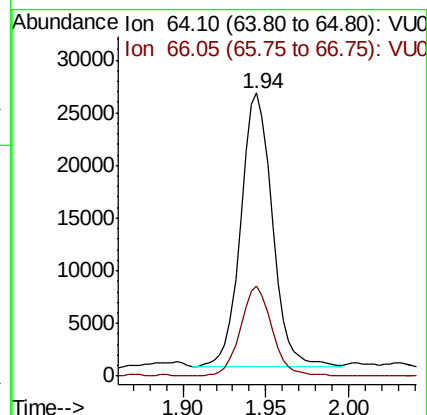
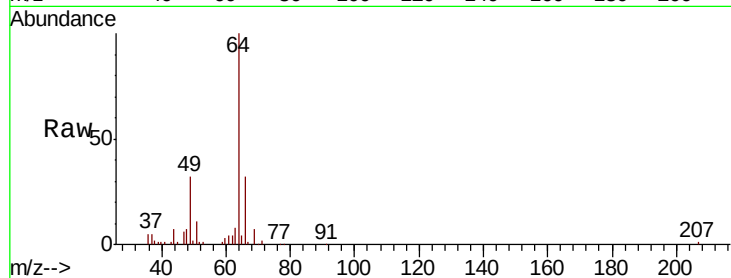
VSTD00513

Tot Ion: 64 Resp: 34826

Ion Ratio Lower Upper

64 100

66 31.8 23.5 43.7



#9

Trichlorofluoromethane

Concen: 4.894 ug/L

RT: 2.15 min Scan# 252

Delta R.T. 0.00 min

Lab File: VU039422.D

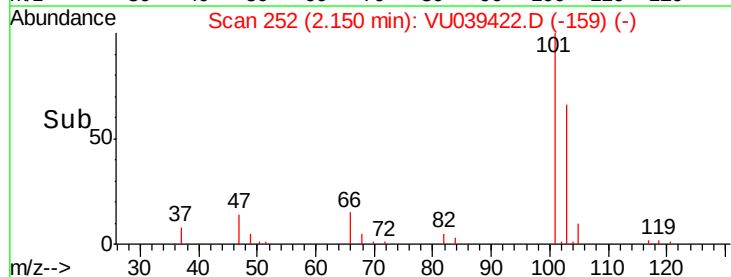
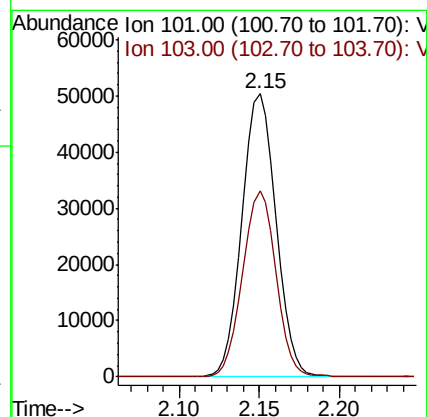
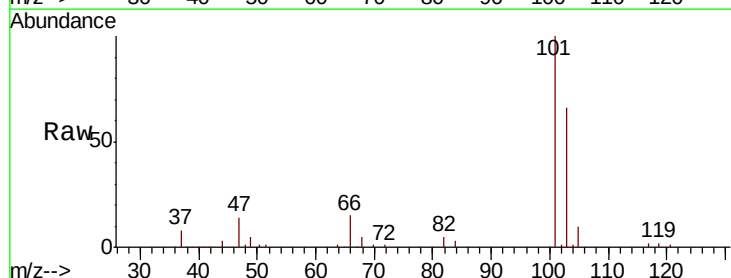
Acq: 10 Jul 2020 02:38

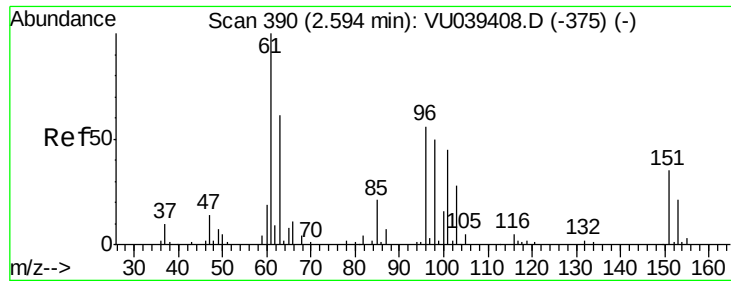
Tgt Ion:101 Resp: 72853

Ion Ratio Lower Upper

101 100

103 64.5 50.6 76.0





#10

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

Concen: 5.104 ug/L

RT: 2.60 min Scan# 391

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

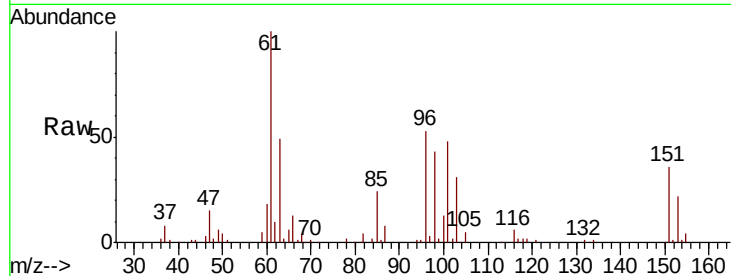
Tot Ion:101 Resp: 31180

Ion Ratio Lower Upper

101 100

85 50.2 38.9 58.3

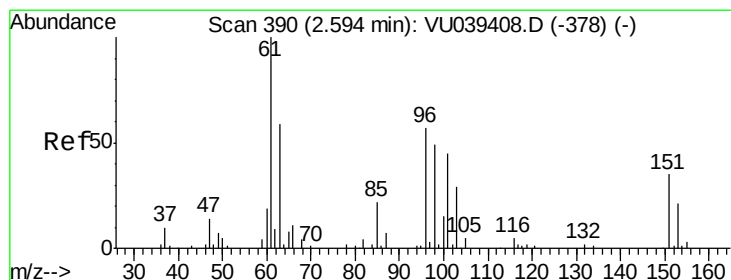
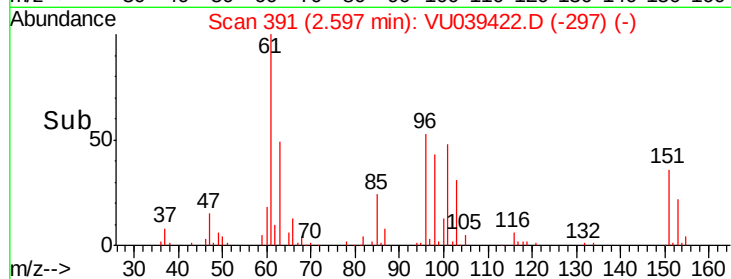
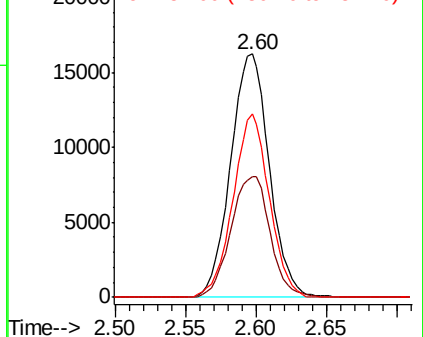
151 70.6 57.0 85.4



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: 4.999 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

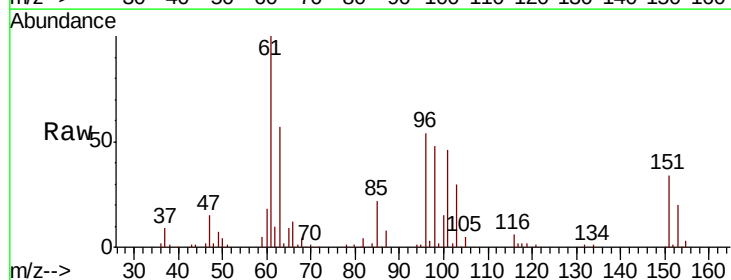
Tgt Ion: 96 Resp: 31257

Ion Ratio Lower Upper

96 100

61 185.2 125.4 232.8

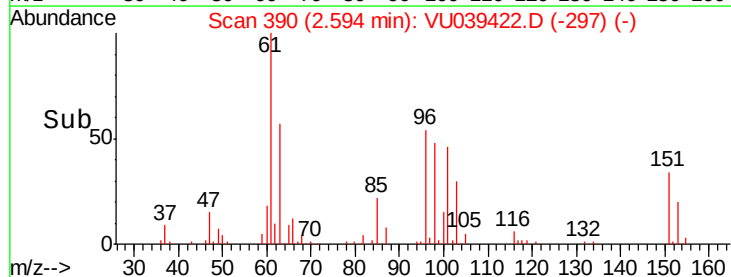
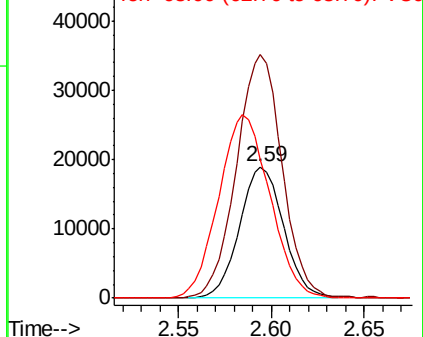
63 105.9 92.7 172.3

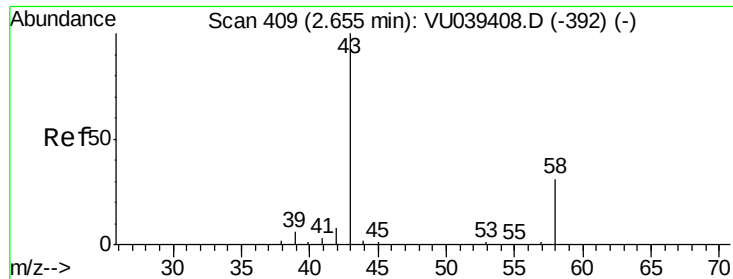


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.696 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

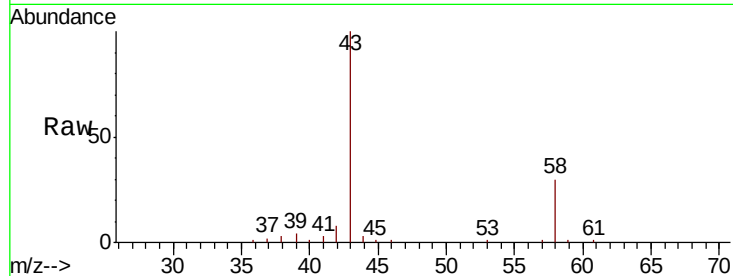
VSTD00513

Tot Ion: 43 Resp: 71781

Ion Ratio Lower Upper

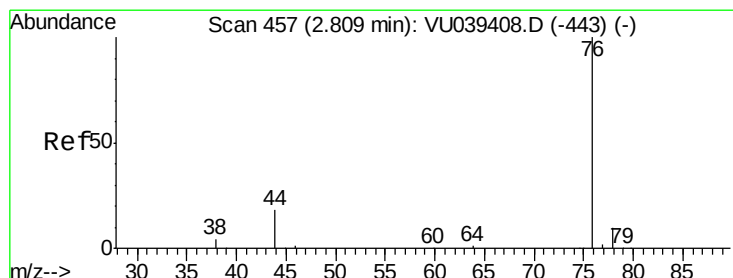
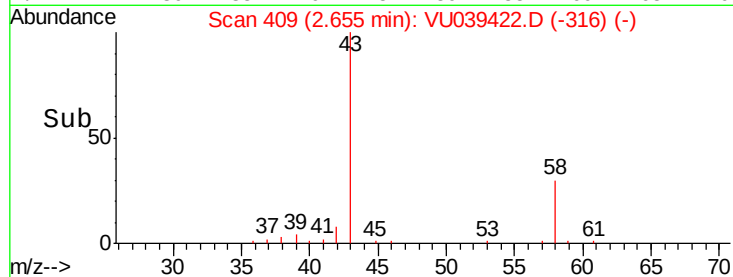
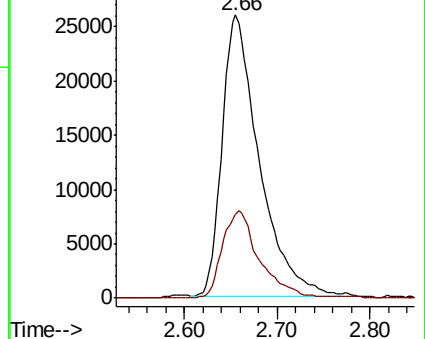
43 100

58 31.1 0.0 62.8



Abundance Ion 43.05 (42.75 to 43.75): VU039408.D (-392) (-)

Ion 58.05 (57.75 to 58.75): VU039408.D (-392) (-)



#14

Carbon disulfide

Concen: 4.642 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU039422.D

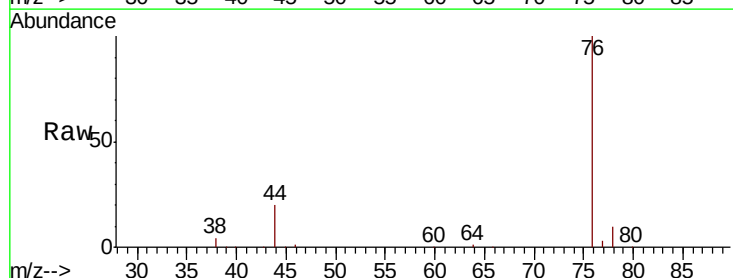
Acq: 10 Jul 2020 02:38

Tgt Ion: 76 Resp: 102249

Ion Ratio Lower Upper

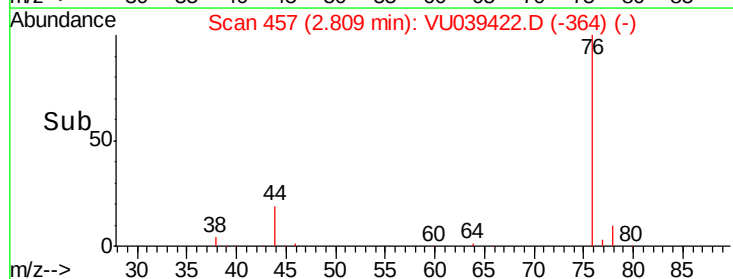
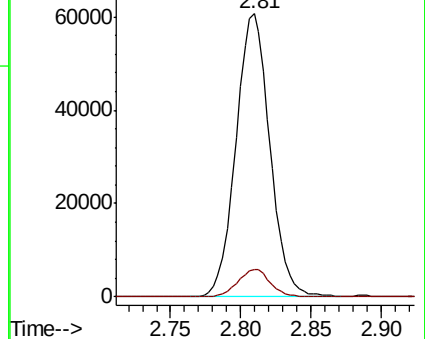
76 100

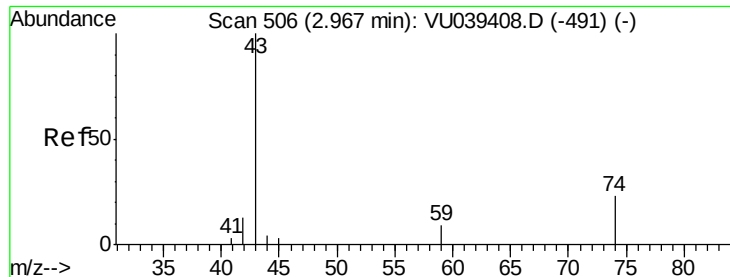
78 9.8 7.0 10.4



Abundance Ion 76.05 (75.75 to 76.75): VU039408.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039408.D (-443) (-)

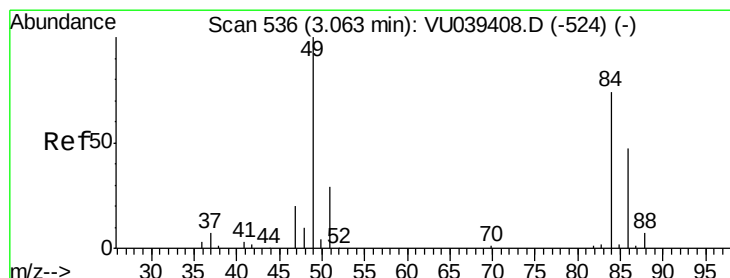
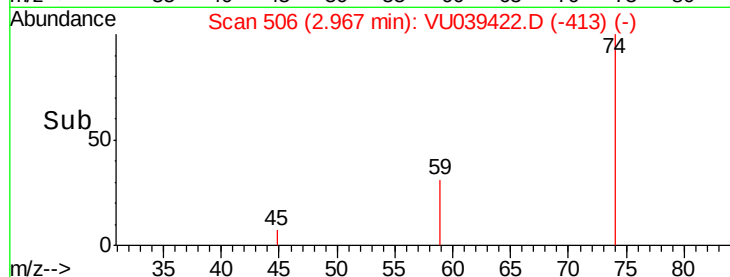
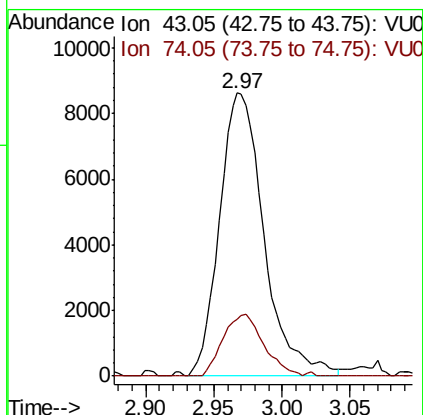
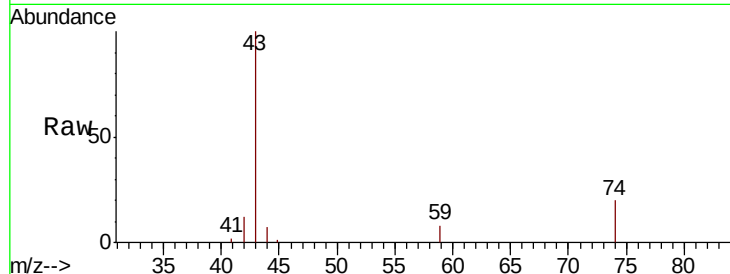




#15
Methvl Acetate
Concen: 4.911 ug/L
RT: 2.97 min Scan# 506
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

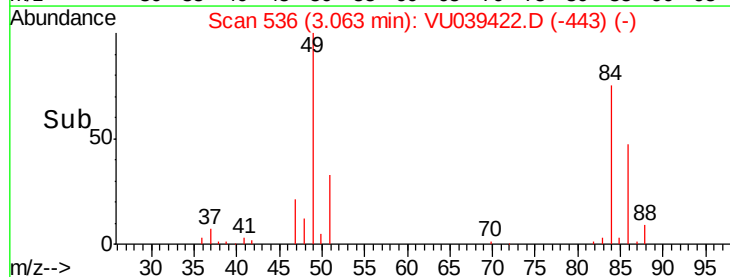
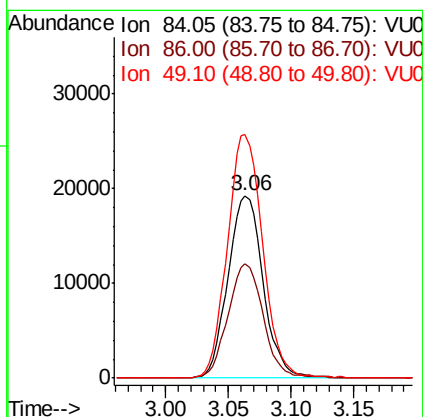
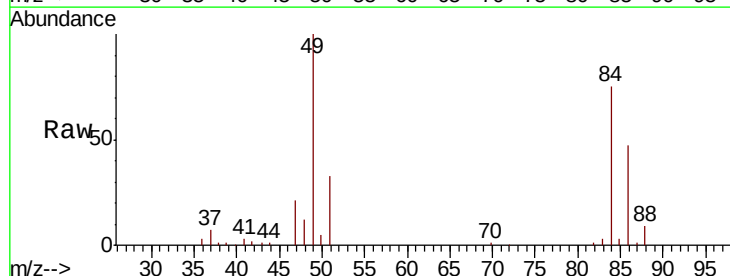
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

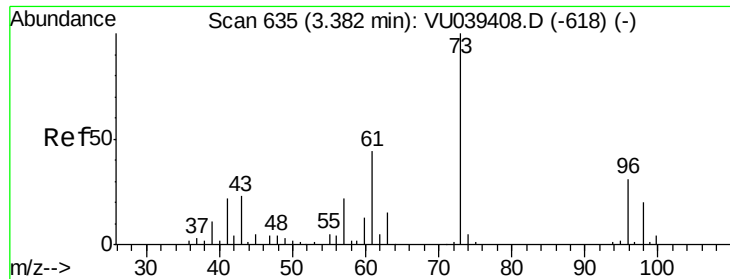
Tot Ion: 43 Resp: 19522
Ion Ratio Lower Upper
43 100
74 19.9 18.7 28.1



#16
Methylene chloride
Concen: 4.771 ug/L
RT: 3.06 min Scan# 536
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion: 84 Resp: 37527
Ion Ratio Lower Upper
84 100
86 62.6 43.5 80.9
49 133.3 91.1 169.1

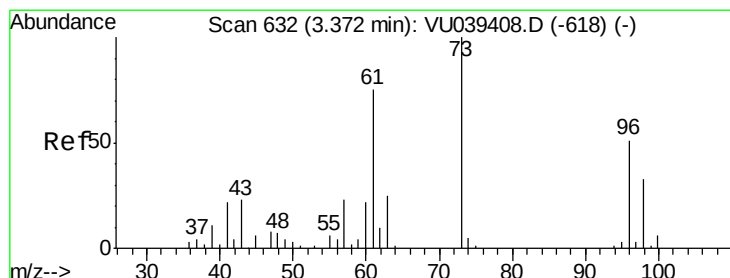
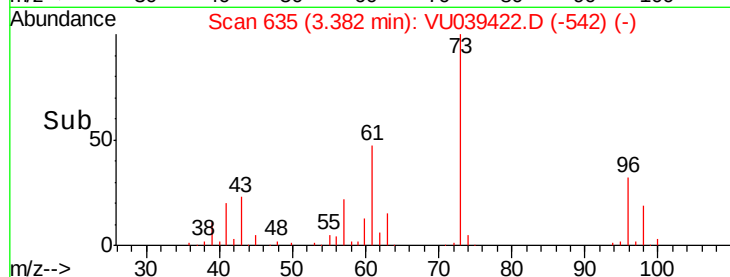
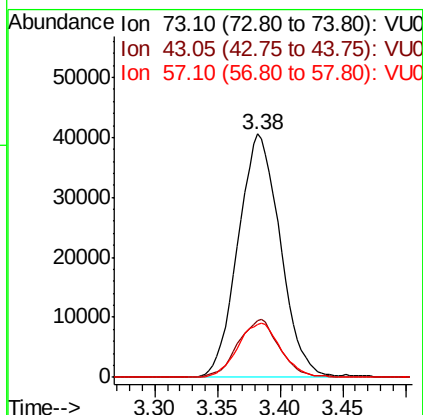
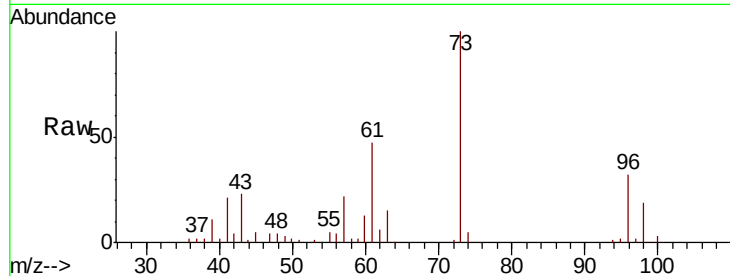




#17
Methyl tert-butyl Ether
Concen: 4.803 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

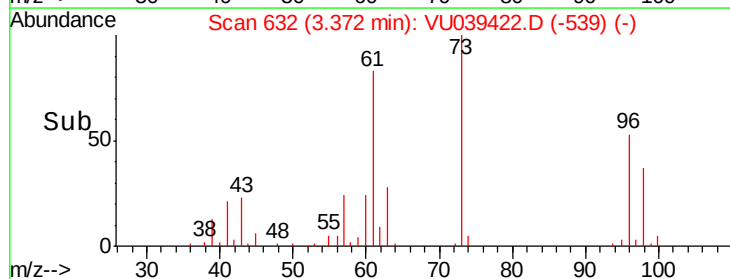
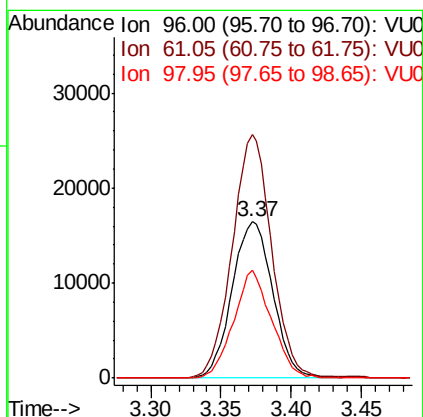
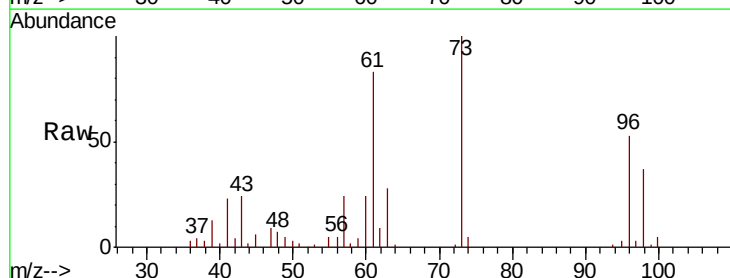
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

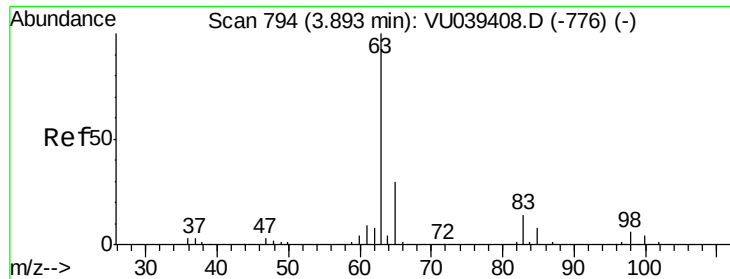
Tot Ion: 73 Resp: 94629
Ion Ratio Lower Upper
73 100
43 23.5 18.6 28.0
57 22.7 17.9 26.9



#18
trans-1,2-Dichloroethene
Concen: 4.821 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion: 96 Resp: 33370
Ion Ratio Lower Upper
96 100
61 156.0 102.1 189.5
98 68.9 42.5 78.9

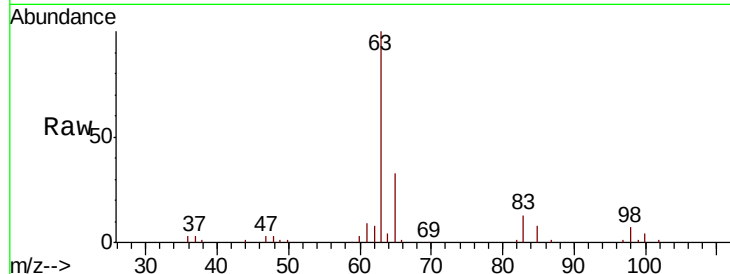




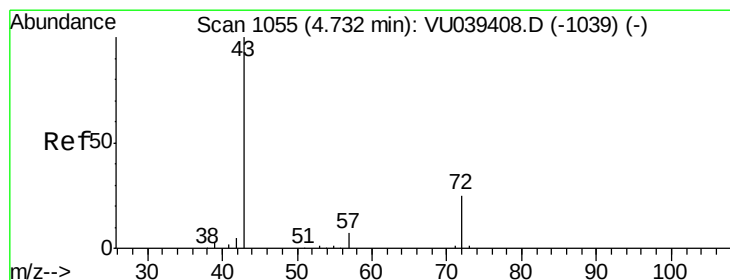
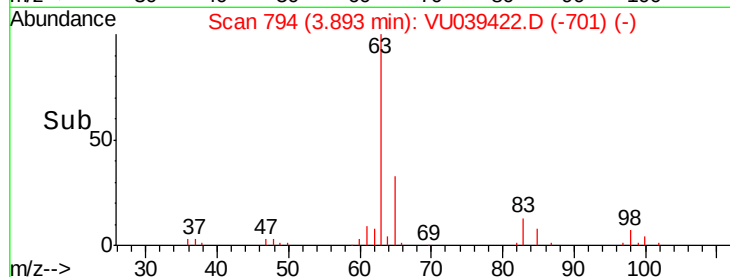
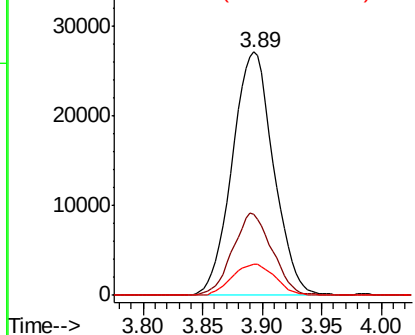
#19
 1,1-Dichloroethane
 Concen: 4.811 ug/L
 RT: 3.89 min Scan# 794
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion: 63 Resp: 65155
 Ion Ratio Lower Upper
 63 100
 65 33.2 23.0 42.6
 83 12.8 9.6 17.8

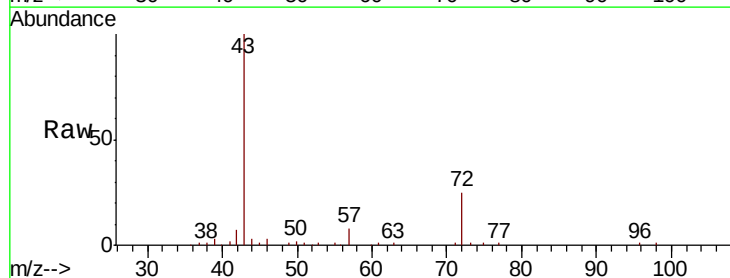


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

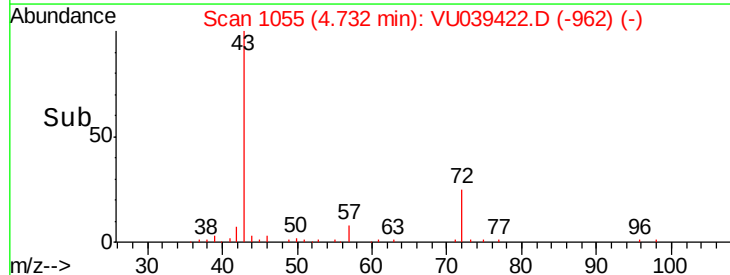
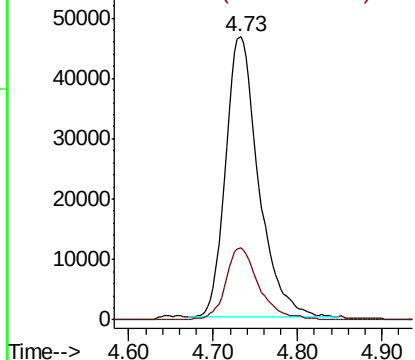


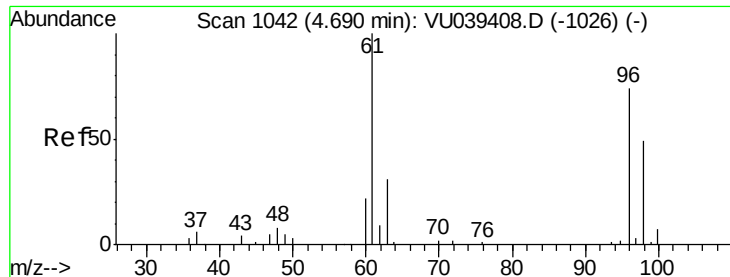
#21
 2-Butanone
 Concen: 47.150 ug/L
 RT: 4.73 min Scan# 1055
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Tgt Ion: 43 Resp: 126652
 Ion Ratio Lower Upper
 43 100
 72 25.9 13.2 39.5



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.906 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. -0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

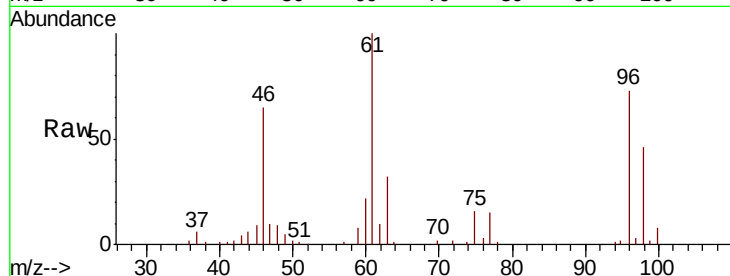
Tot Ion: 96 Resp: 38079

Ion Ratio Lower Upper

96 100

61 136.8 92.8 172.4

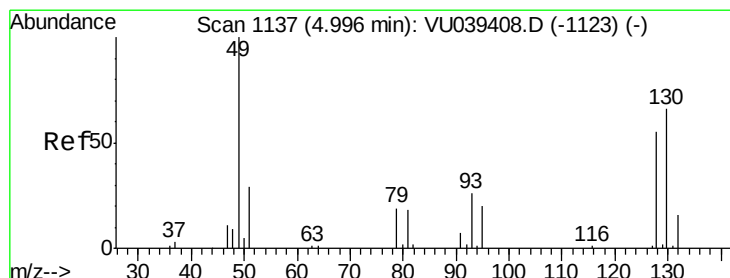
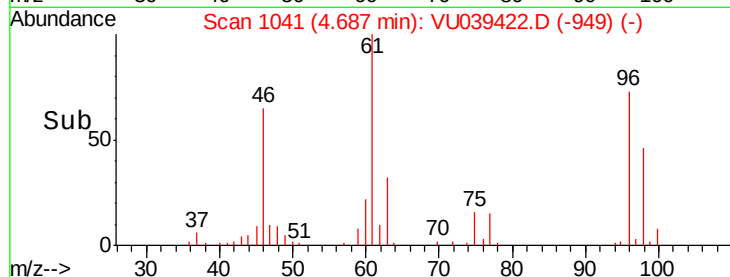
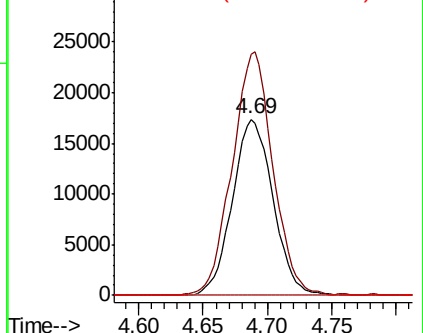
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039422.D (-949) (-)

Ion 61.05 (60.75 to 61.75): VU039422.D (-949) (-)

Ion 68.15 (67.85 to 68.85): VU039422.D (-949) (-)



#23

Bromochloromethane

Concen: 4.716 ug/L

RT: 5.00 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Tgt Ion: 128 Resp: 16628

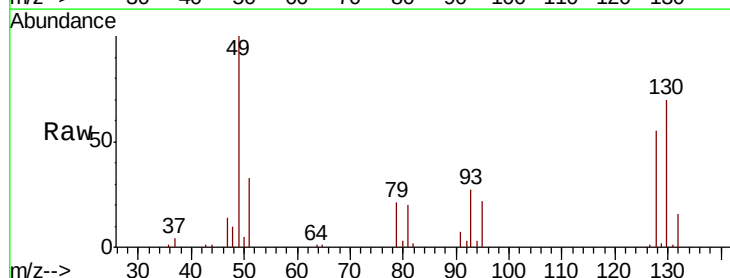
Ion Ratio Lower Upper

128 100

49 181.8 128.5 238.7

130 126.8 91.5 169.9

51 59.3 47.0 70.6

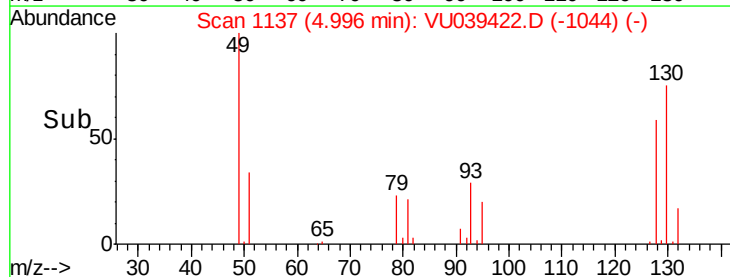
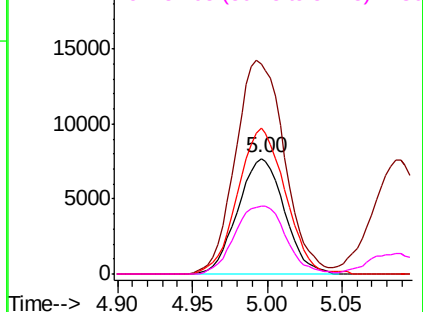


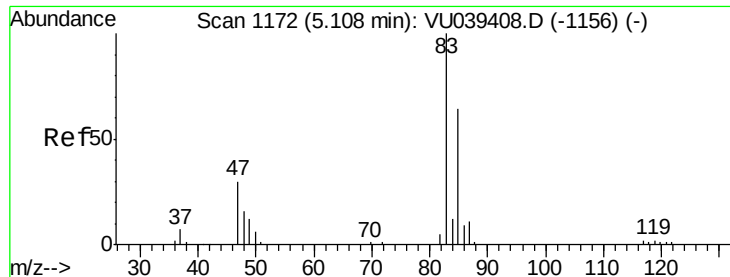
Abundance Ion 127.90 (127.60 to 128.60): VU039422.D (-1044) (-)

Ion 49.10 (48.80 to 49.80): VU039422.D (-1044) (-)

Ion 129.95 (129.65 to 130.65): VU039422.D (-1044) (-)

Ion 51.05 (50.75 to 51.75): VU039422.D (-1044) (-)

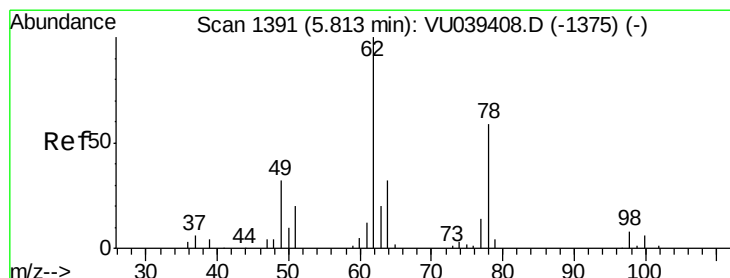
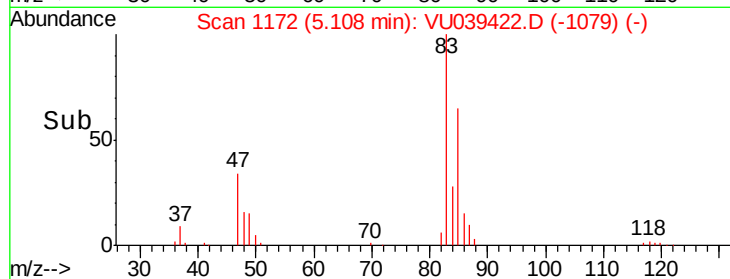
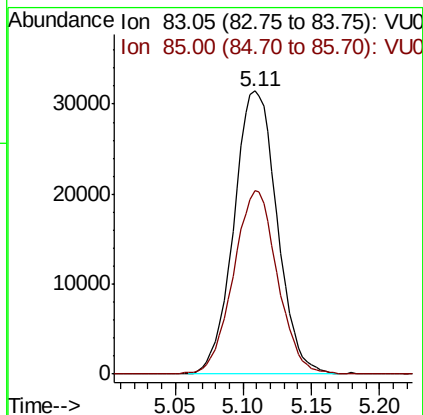
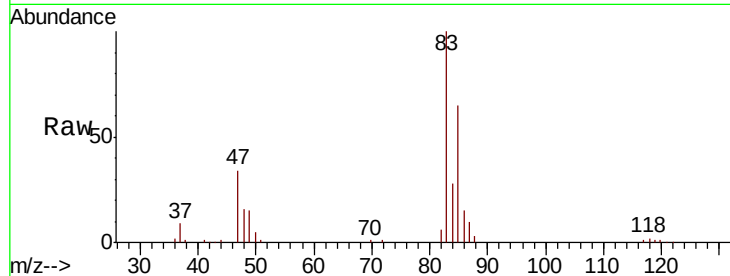




#25
Chloroform
Concen: 5.059 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

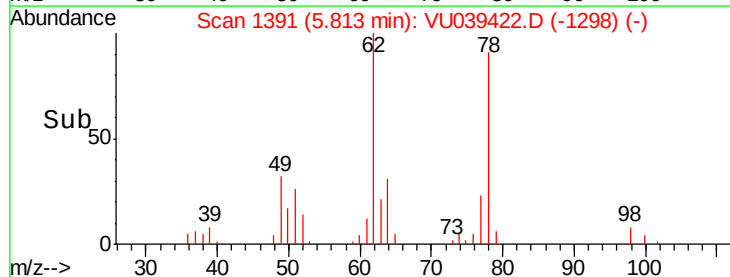
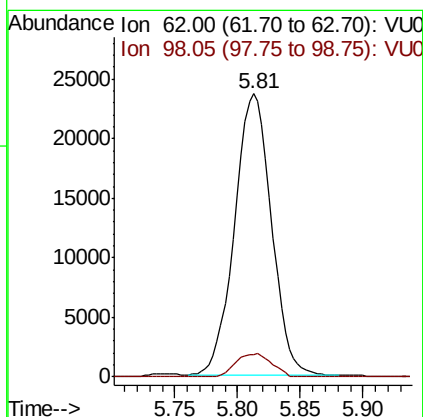
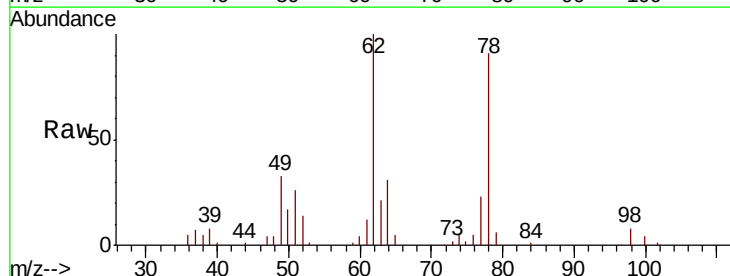
Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

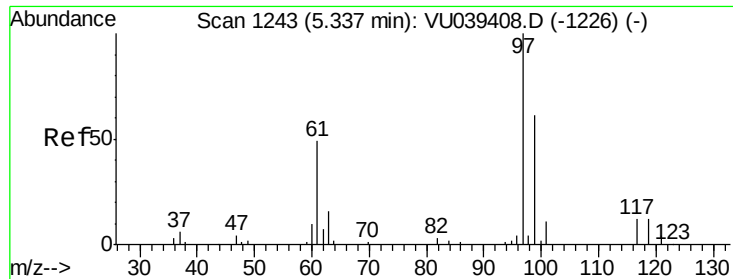
Tot Ion: 83 Resp: 69195
Ion Ratio Lower Upper
83 100
85 64.7 44.9 83.5



#27
1,2-Dichloroethane
Concen: 4.893 ug/L
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion: 62 Resp: 48412
Ion Ratio Lower Upper
62 100
98 7.9 6.3 9.5

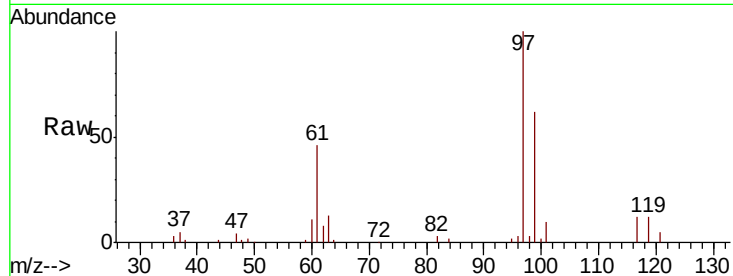




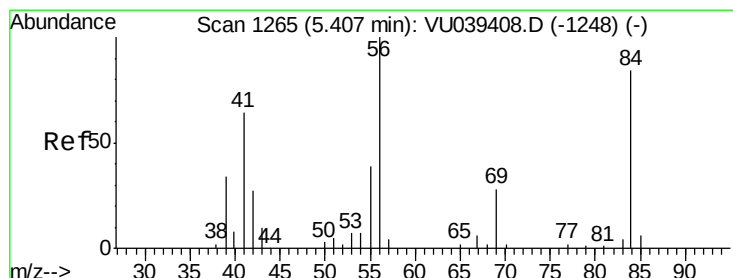
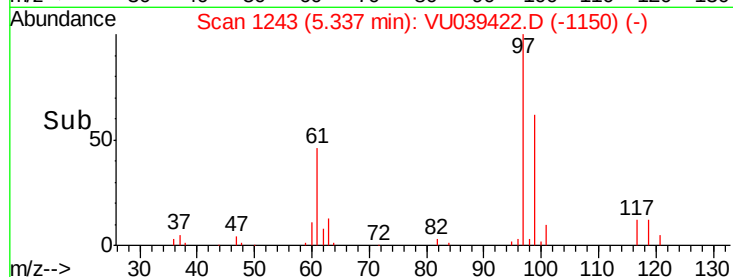
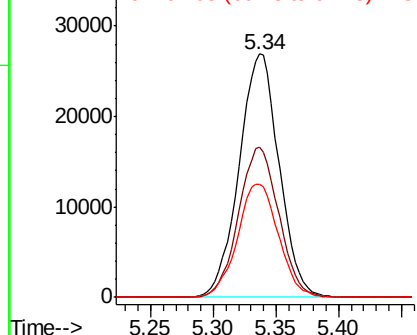
#29
1,1,1-Trichloroethane
Concen: 5.173 ug/L
RT: 5.34 min Scan# 1243
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion: 97 Resp: 59718
Ion Ratio Lower Upper
97 100
99 62.0 52.6 79.0
61 47.8 37.9 56.9

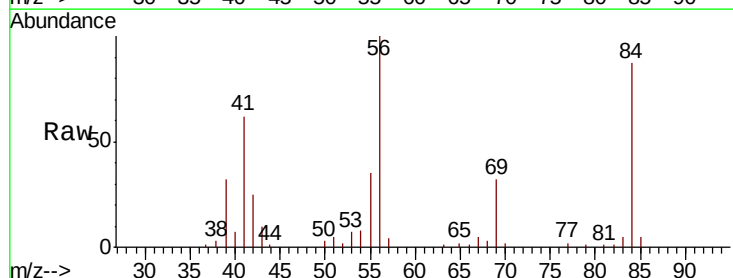


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

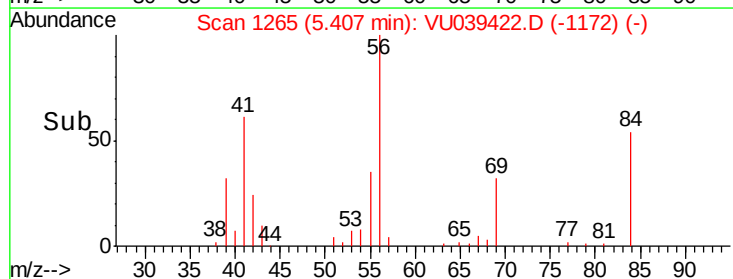
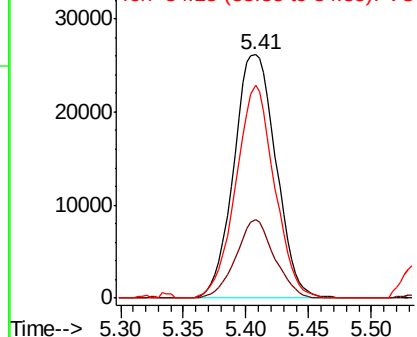


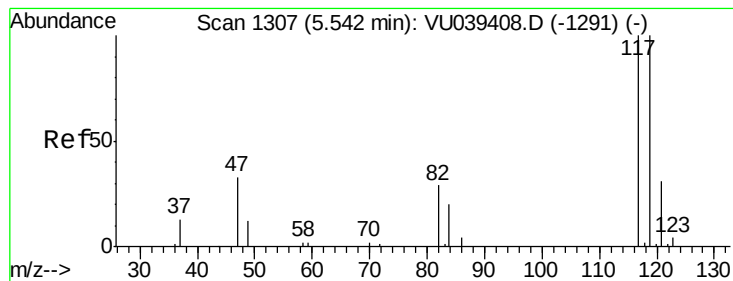
#30
Cyclohexane
Concen: 5.015 ug/L
RT: 5.41 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion: 56 Resp: 60953
Ion Ratio Lower Upper
56 100
69 29.5 24.1 36.1
84 80.3 67.0 100.6



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: 5.092 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

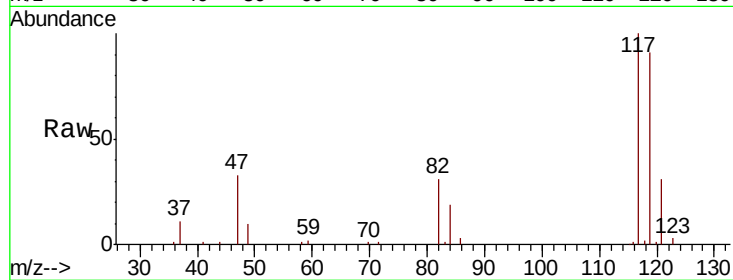
VSTD00513

Tot Ion:117 Resp: 50153

Ion Ratio Lower Upper

117 100

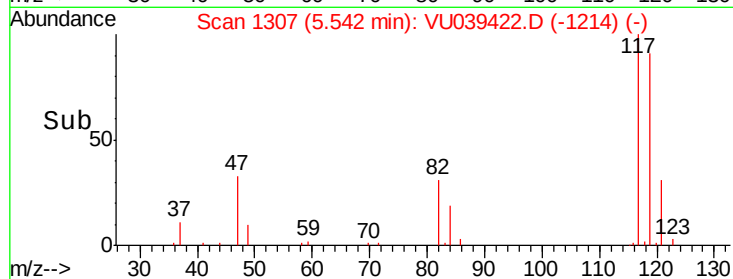
119 92.5 77.4 116.0



Abundance Ion 116.90 (116.60 to 117.60): V

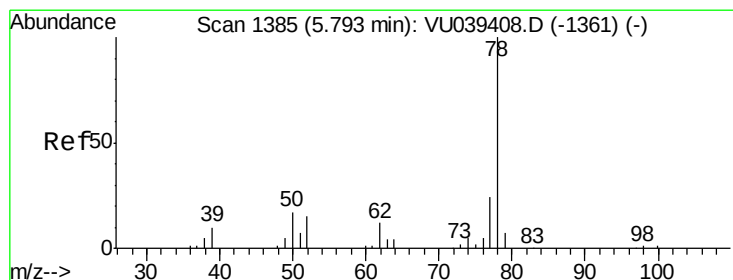
Ion 118.90 (118.60 to 119.60): V

5.54



Time-->

5.45 5.50 5.55 5.60



#33

Benzene

Concen: 4.934 ug/L

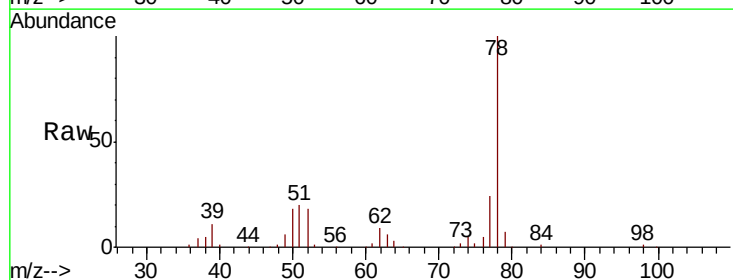
RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

Lab File: VU039422.D

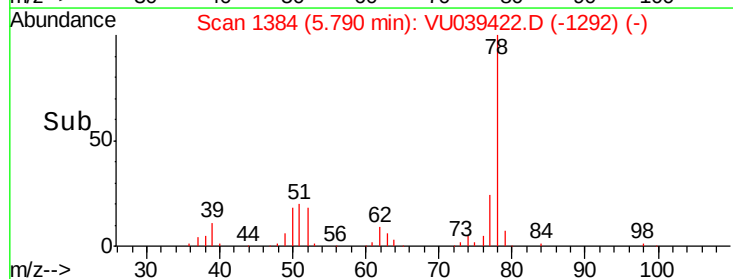
Acq: 10 Jul 2020 02:38

Tgt Ion: 78 Resp: 144578



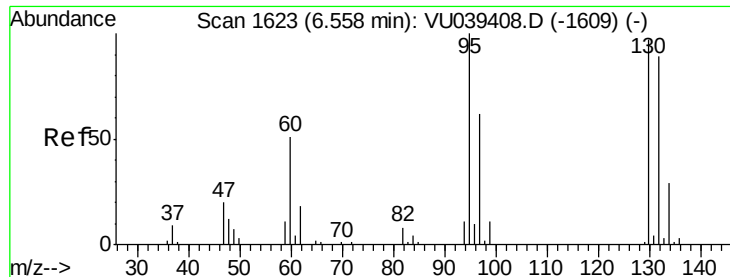
Abundance Ion 78.10 (77.80 to 78.80): VU0

5.79



Time-->

5.70 5.80 5.90



#34

Trichloroethene

Concen: 4.833 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. -0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

Tot Ion: 95 Resp: 36617

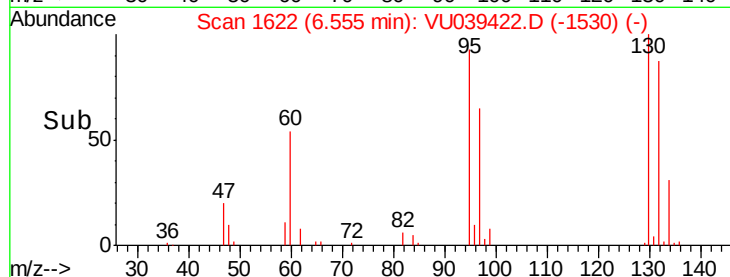
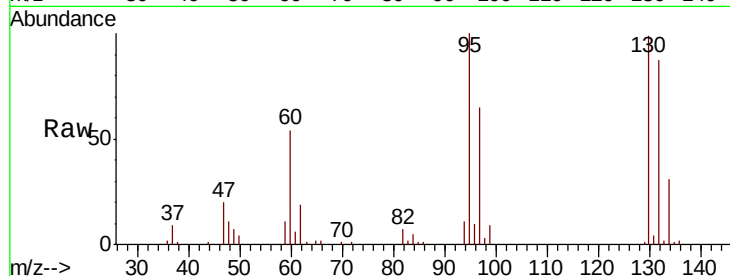
Ion Ratio Lower Upper

95 100

97 64.7 46.3 85.9

132 86.6 64.0 118.8

130 99.2 64.3 119.5



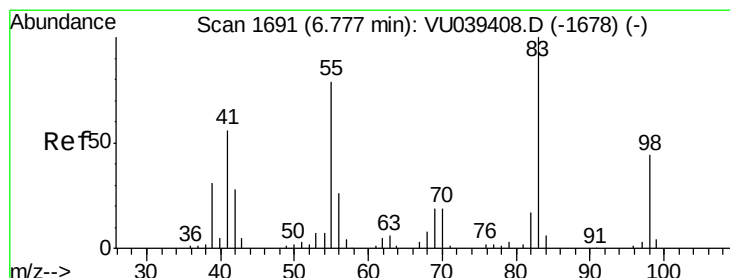
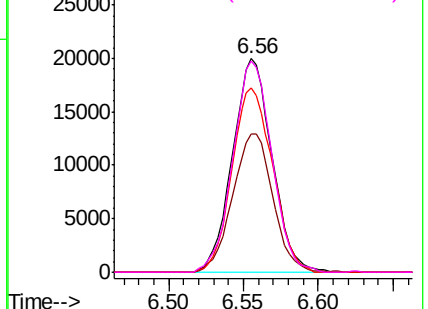
Abundance

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: 4.815 ug/L

RT: 6.78 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

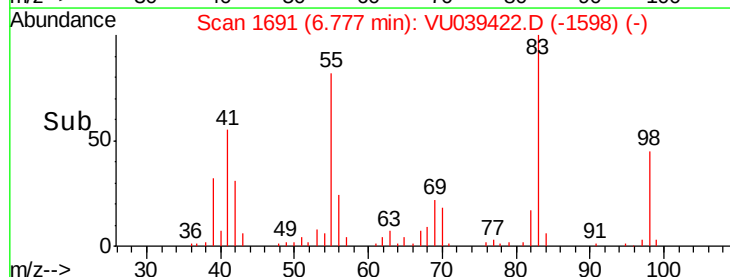
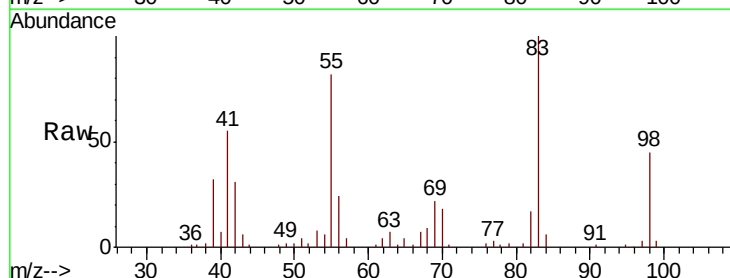
Tgt Ion: 83 Resp: 58437

Ion Ratio Lower Upper

83 100

55 79.6 62.1 93.1

98 45.1 35.9 53.9

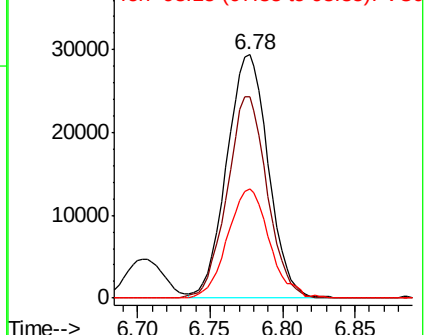


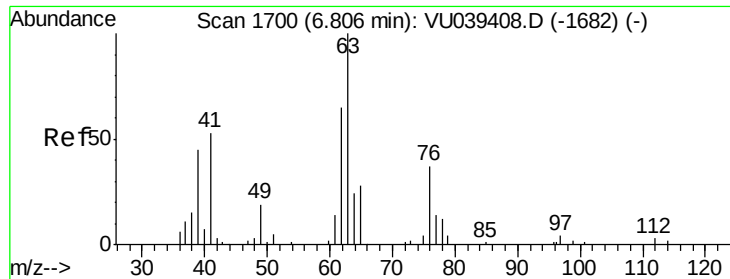
Abundance

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

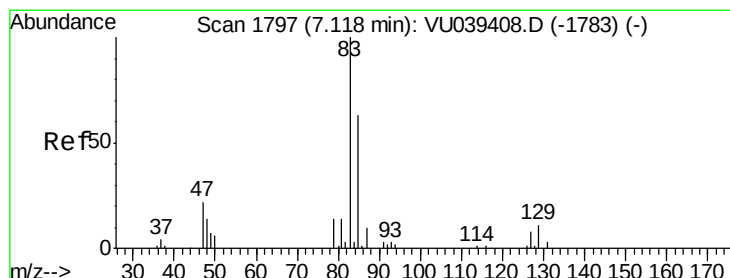
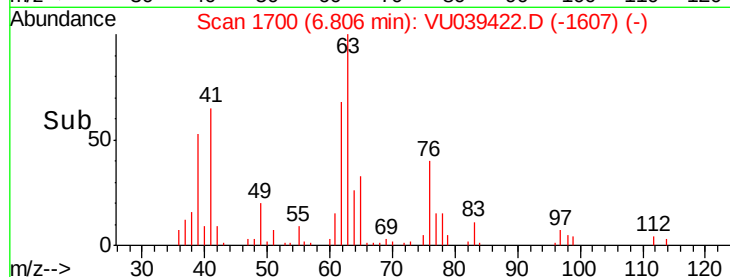
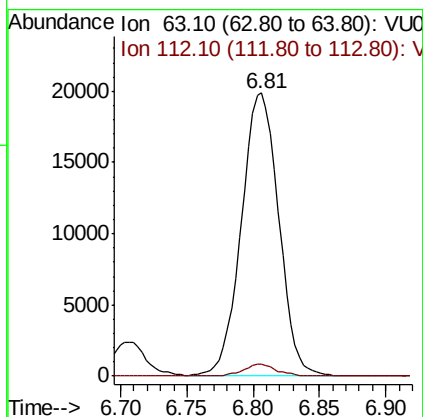
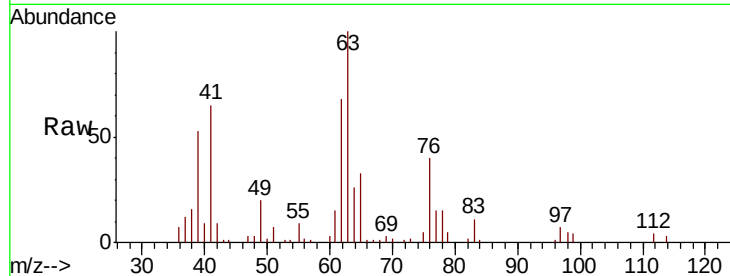




#37
 1,2-Dichloropropane
 Concen: 4.894 ug/L
 RT: 6.81 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

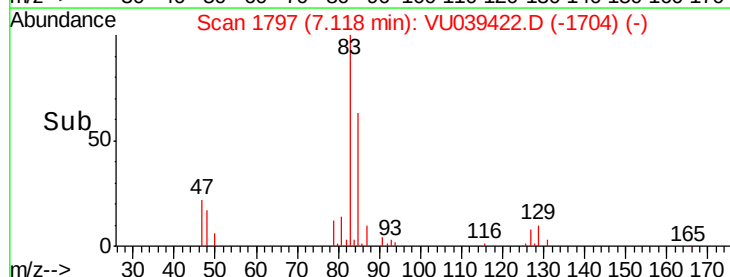
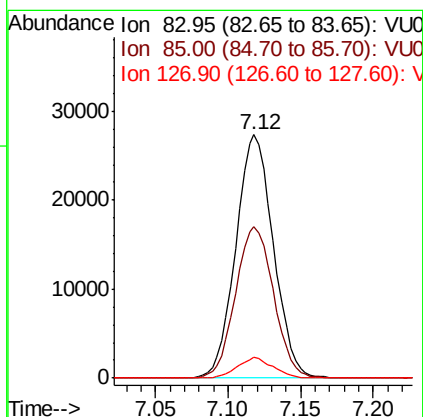
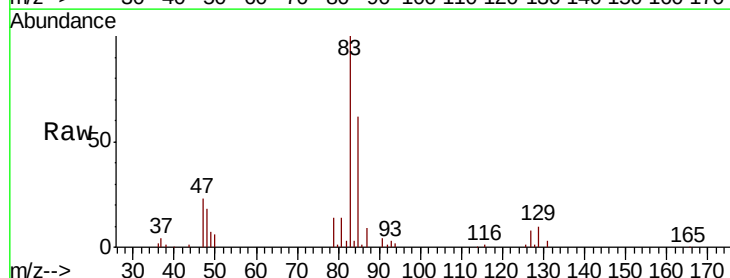
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

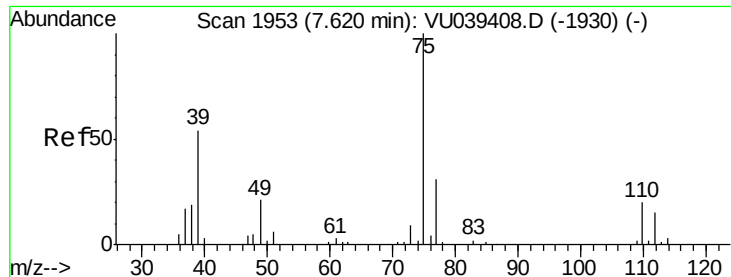
Tot Ion: 63 Resp: 39099
 Ion Ratio Lower Upper
 63 100
 112 3.7 2.5 3.7#



#38
 Bromodichloromethane
 Concen: 4.822 ug/L
 RT: 7.12 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Tgt Ion: 83 Resp: 49195
 Ion Ratio Lower Upper
 83 100
 85 62.0 44.0 81.6
 127 8.4 6.2 9.4





#39

cis-1,3-Dichloropropene

Concen: 4.766 ug/L

RT: 7.62 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

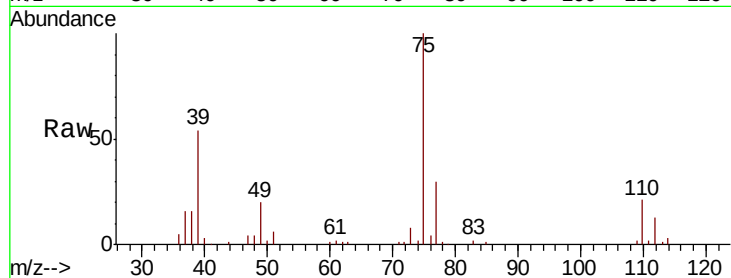
VSTD00513

Tot Ion: 75 Resp: 57558

Ion Ratio Lower Upper

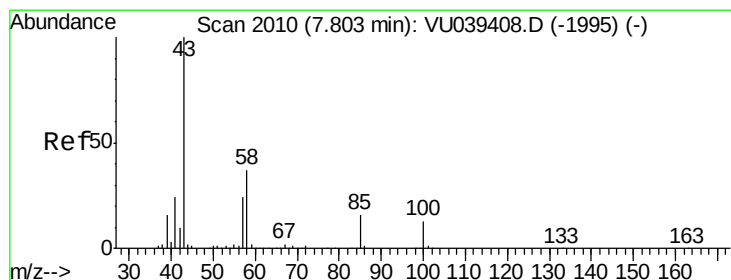
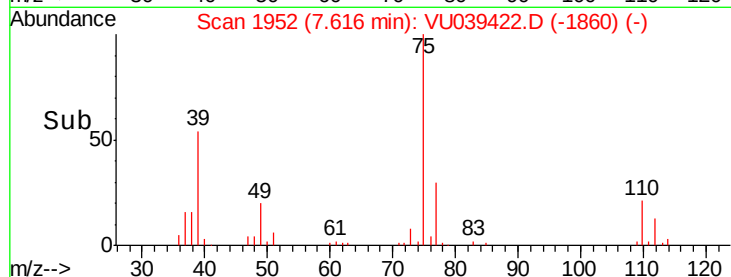
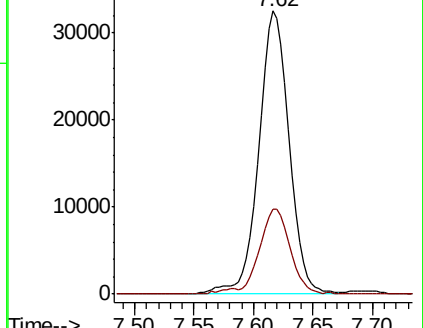
75 100

77 29.9 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VU039408.D (-1930) (-)

Ion 77.05 (76.75 to 77.75): VU039408.D (-1930) (-)



#40

4-Methyl-2-pentanone

Concen: 48.318 ug/L

RT: 7.80 min Scan# 2010

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

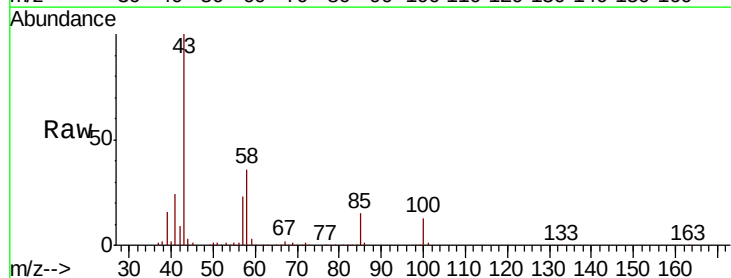
Tgt Ion: 43 Resp: 322000

Ion Ratio Lower Upper

43 100

58 36.0 30.5 45.7

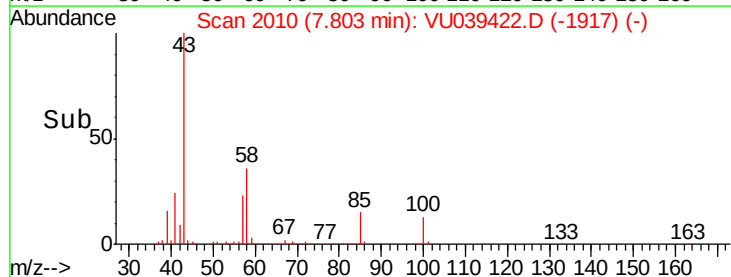
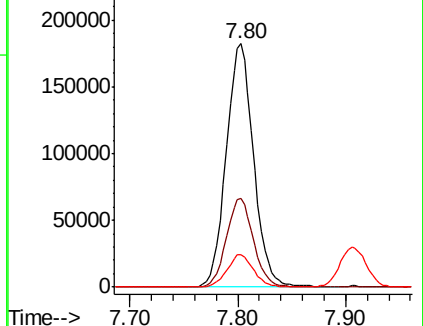
100 12.9 10.3 15.5

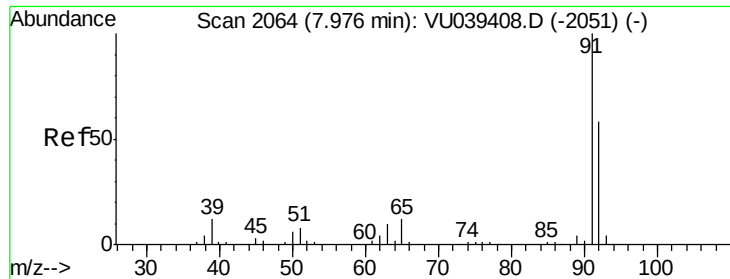


Abundance Ion 43.05 (42.75 to 43.75): VU039408.D (-1995) (-)

Ion 58.05 (57.75 to 58.75): VU039408.D (-1995) (-)

Ion 100.15 (99.85 to 100.85): VU039408.D (-1995) (-)





#42

Toluene

Concen: 5.042 ug/L

RT: 7.98 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

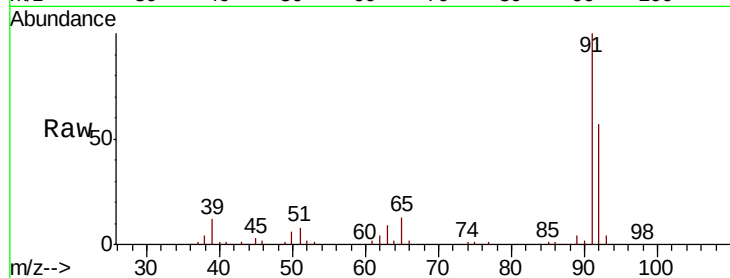
VSTD00513

Tot Ion: 91 Resp: 158232

Ion Ratio Lower Upper

91 100

92 56.6 39.3 73.1



Abundance Ion 91.15 (90.85 to 91.85): VU039408.D (-2051) (-)

Ion 92.15 (91.85 to 92.85): VU039408.D (-2051) (-)

7.98

100000

80000

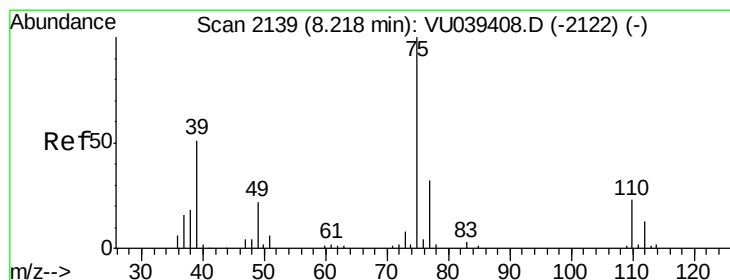
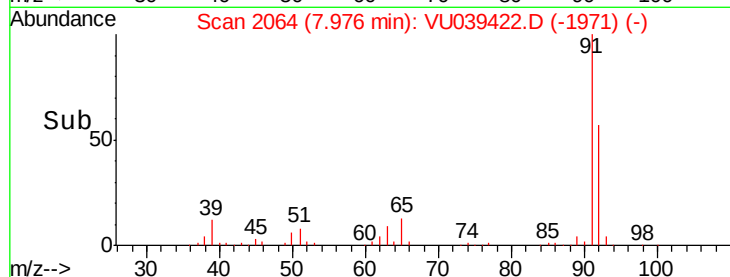
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.671 ug/L

RT: 8.22 min Scan# 2139

Delta R.T. 0.00 min

Lab File: VU039422.D

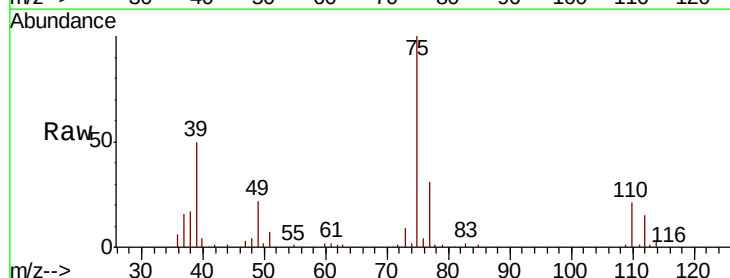
Acq: 10 Jul 2020 02:38

Tgt Ion: 75 Resp: 50048

Ion Ratio Lower Upper

75 100

77 30.9 23.7 43.9



Abundance Ion 75.05 (74.75 to 75.75): VU039408.D (-2122) (-)

Ion 77.05 (76.75 to 77.75): VU039408.D (-2122) (-)

8.22

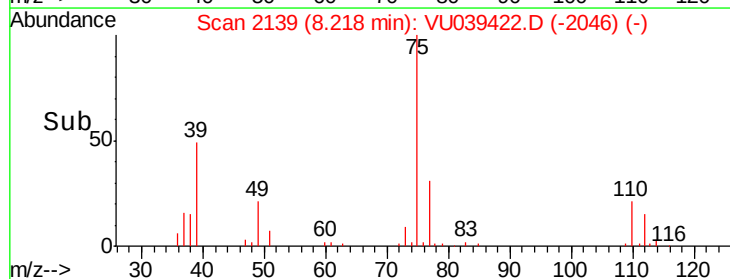
30000

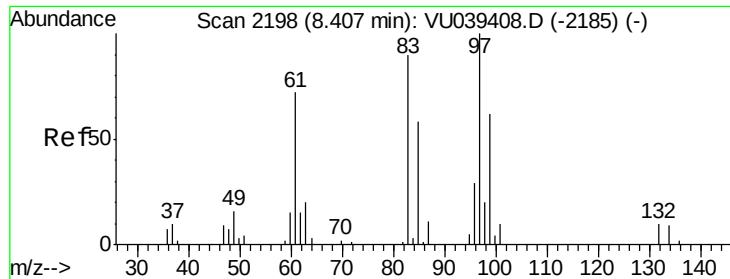
20000

10000

0

Time-->

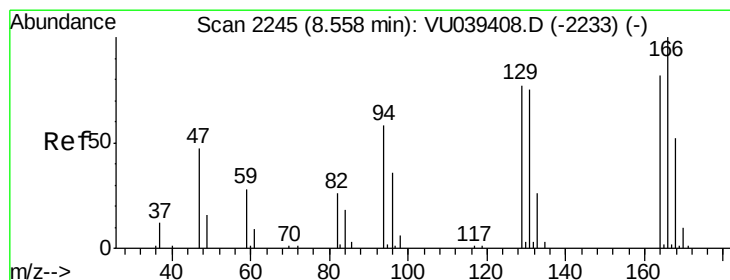
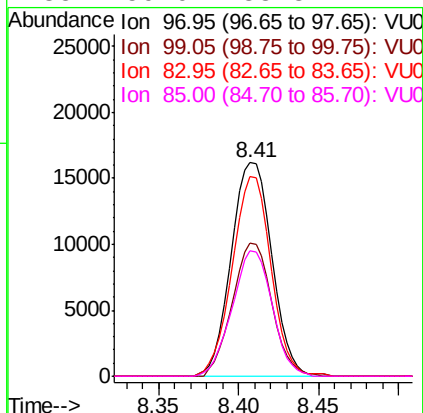
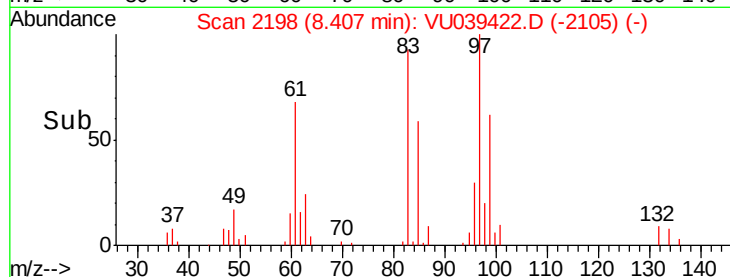
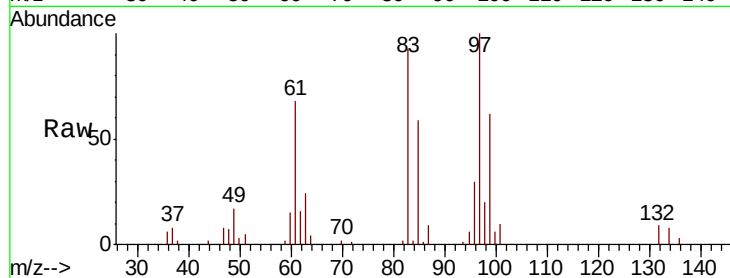




#45
 1,1,2-Trichloroethane
 Concen: 4.902 ug/L
 RT: 8.41 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

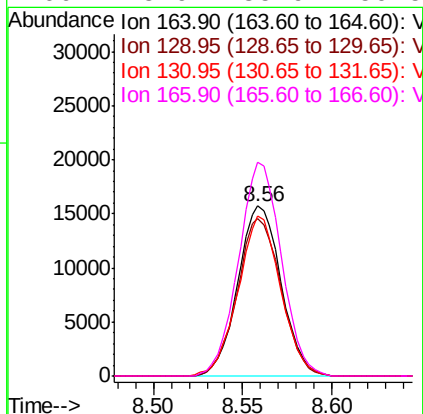
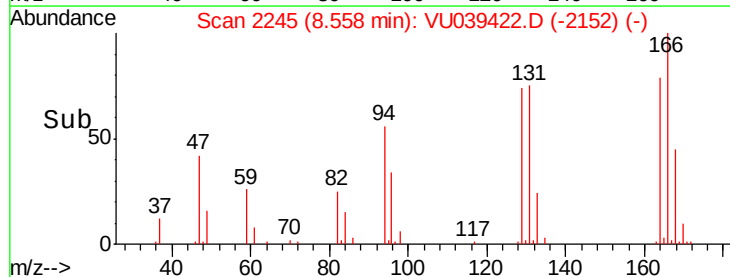
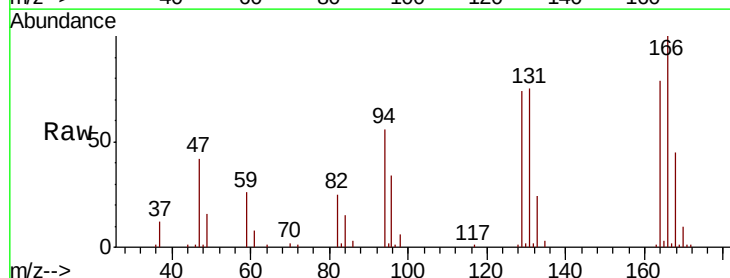
Instrument :
 MSVOA_U
 ClientSampleID :
 VSTD00513

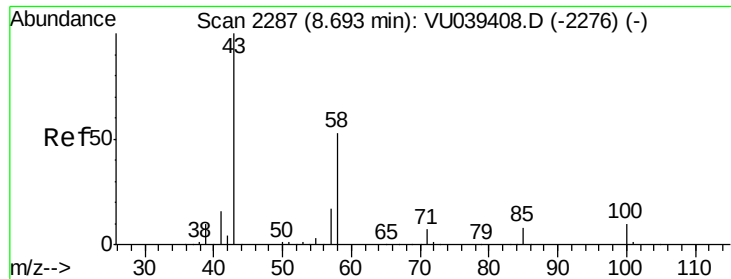
Tot Ion:	97	Resp:	28129
Ion	Ratio	Lower	Upper
97	100		
99	62.3	40.7	75.7
83	93.4	60.6	112.6
85	59.0	38.3	71.1



#47
 Tetrachloroethene
 Concen: 5.028 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Tgt Ion:	164	Resp:	26494
Ion	Ratio	Lower	Upper
164	100		
129	92.5	68.6	127.4
131	94.1	66.4	123.4
166	125.9	85.9	159.5

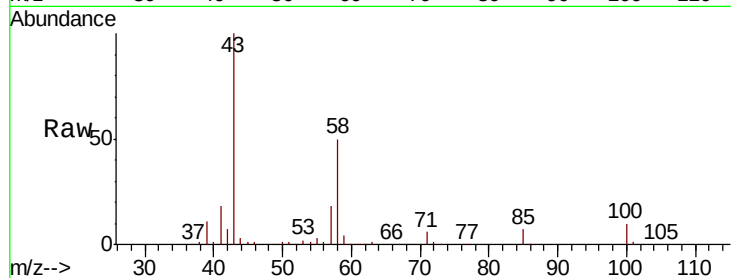




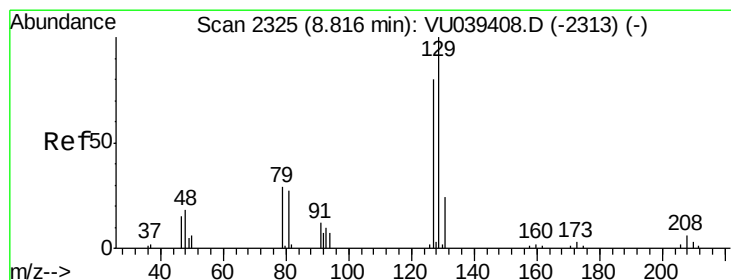
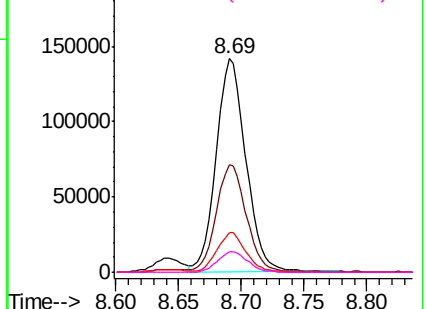
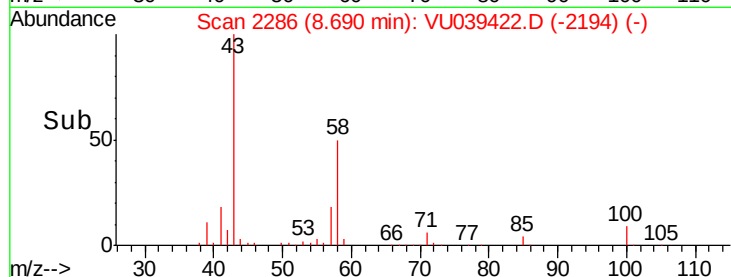
#48
2-Hexanone
Concen: 47.379 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. -0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion: 43 Resp: 232809
Ion Ratio Lower Upper
43 100
58 50.6 42.0 63.0
57 18.0 14.0 21.0
100 9.9 8.2 12.2

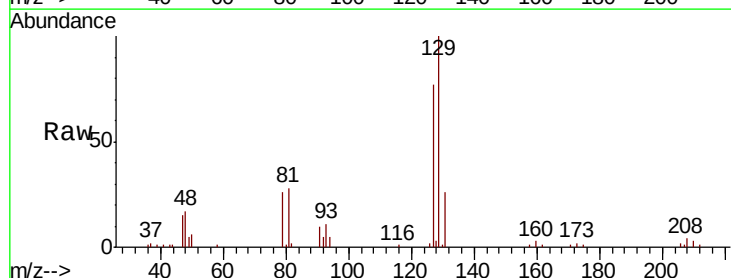


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

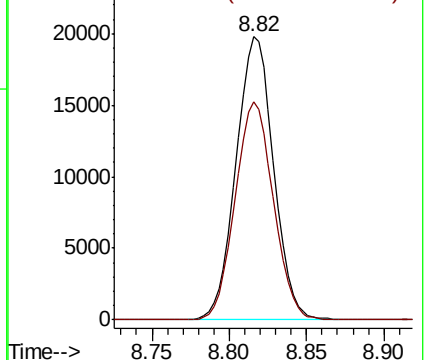
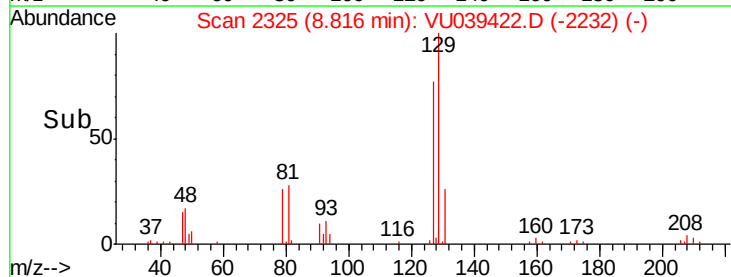


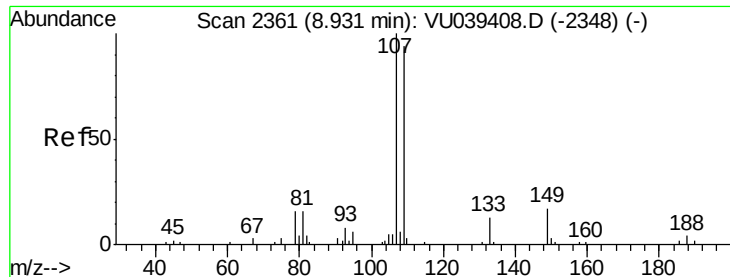
#49
Dibromochloromethane
Concen: 4.800 ug/L
RT: 8.82 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion: 129 Resp: 33361
Ion Ratio Lower Upper
129 100
127 77.1 55.4 102.8



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

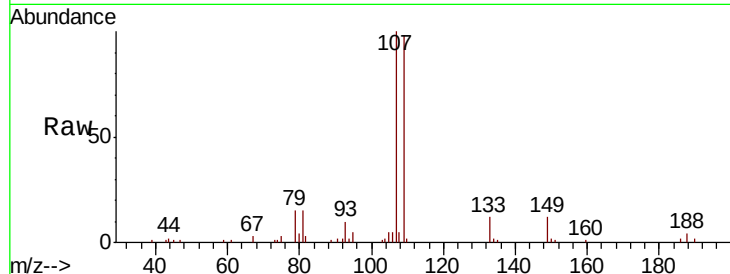




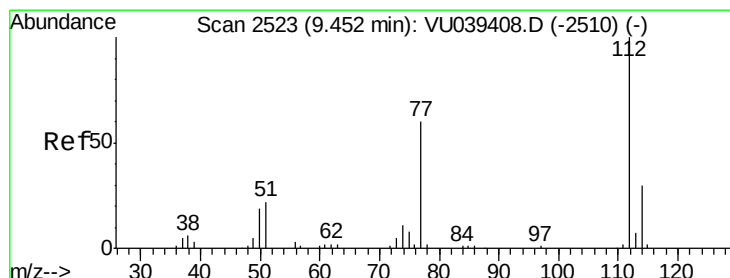
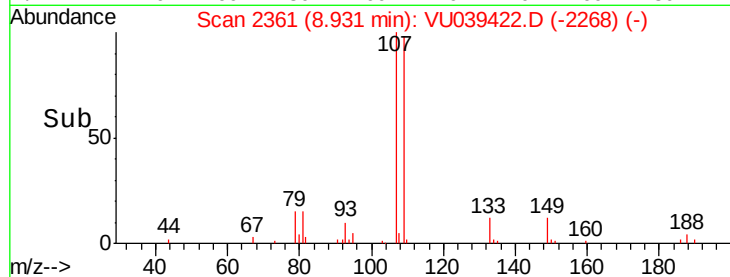
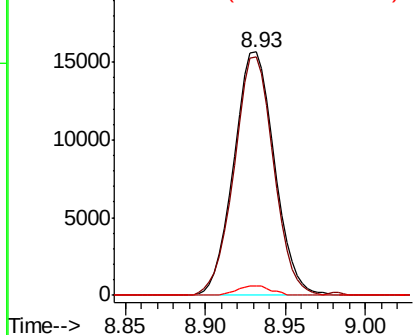
#50
1,2-Dibromoethane
Concen: 4.653 ug/L
RT: 8.93 min Scan# 2361
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion:107 Resp: 27126
Ion Ratio Lower Upper
107 100
109 98.1 64.0 118.8
188 4.1 2.6 3.8#

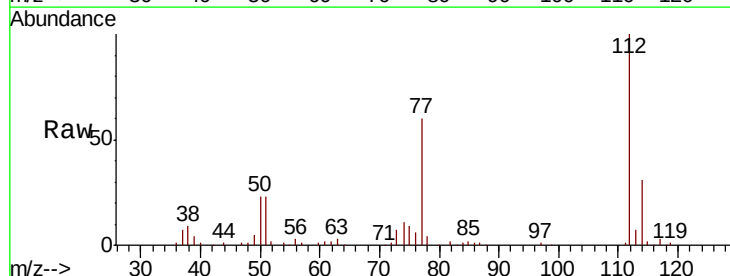


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

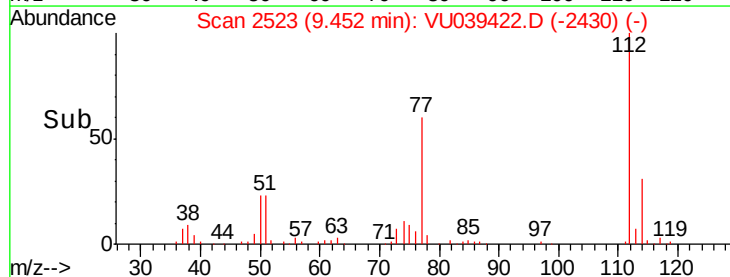
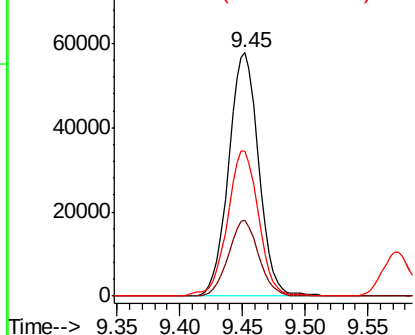


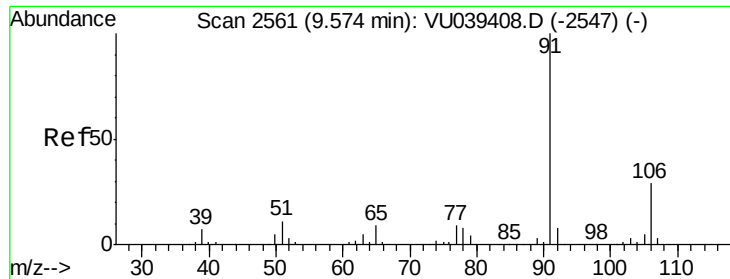
#51
Chlorobenzene
Concen: 5.029 ug/L
RT: 9.45 min Scan# 2523
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion:112 Resp: 96435
Ion Ratio Lower Upper
112 100
114 31.0 22.1 41.1
77 59.6 49.9 74.9



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): VU





#52

Ethylbenzene

Concen: 4.989 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. -0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

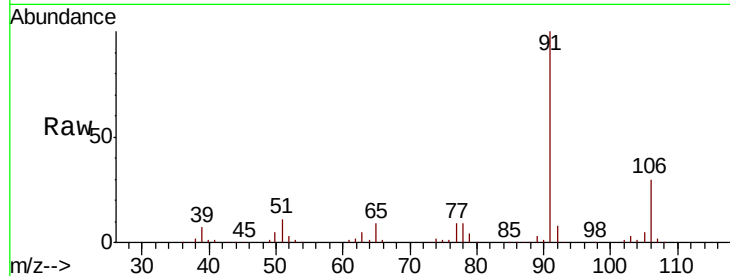
VSTD00513

Tot Ion: 91 Resp: 173014

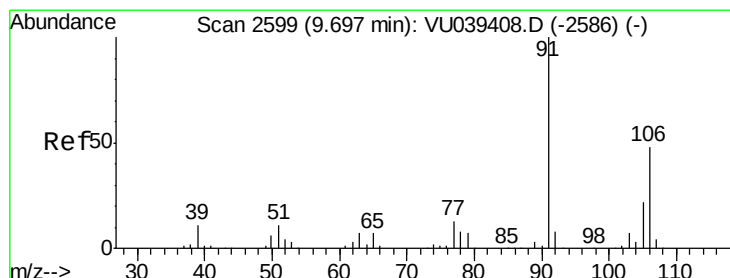
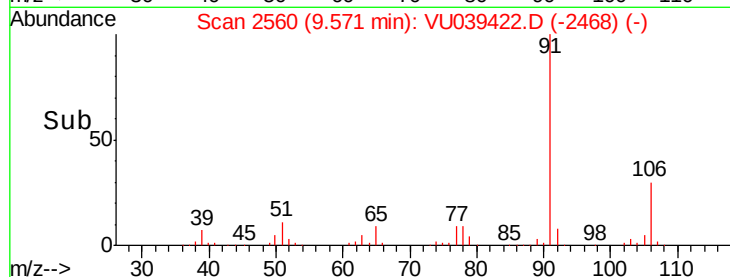
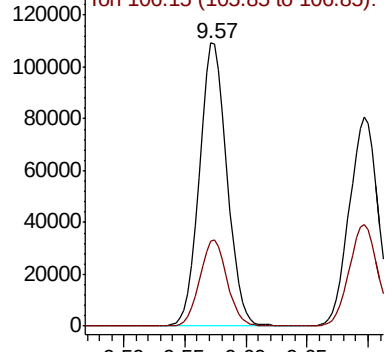
Ion Ratio Lower Upper

91 100

106 29.8 21.3 39.6



Abundance Ion 91.15 (90.85 to 91.85): VU039408.D (-2547) (-)



#53

m,p-Xylene

Concen: 4.902 ug/L

RT: 9.70 min Scan# 2599

Delta R.T. 0.00 min

Lab File: VU039422.D

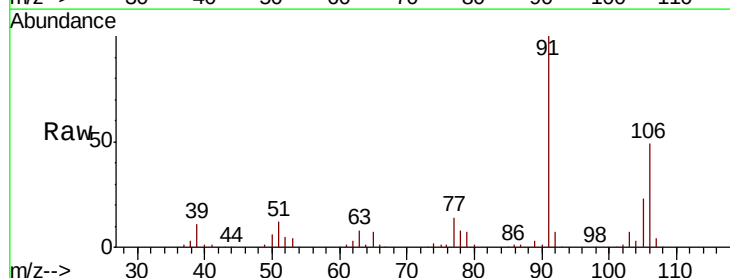
Acq: 10 Jul 2020 02:38

Tgt Ion: 106 Resp: 64056

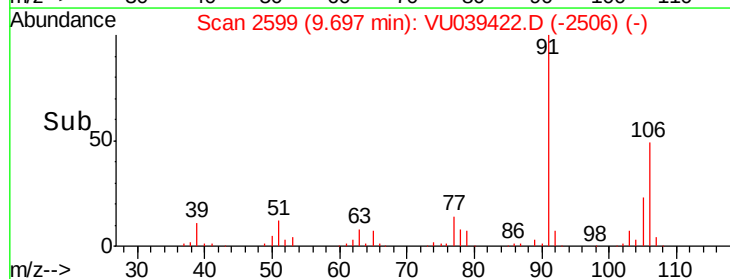
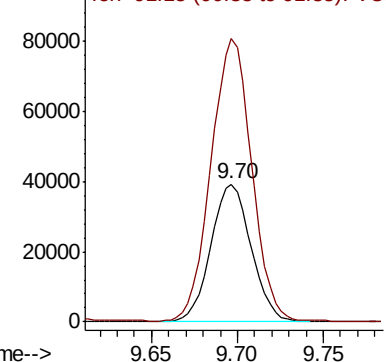
Ion Ratio Lower Upper

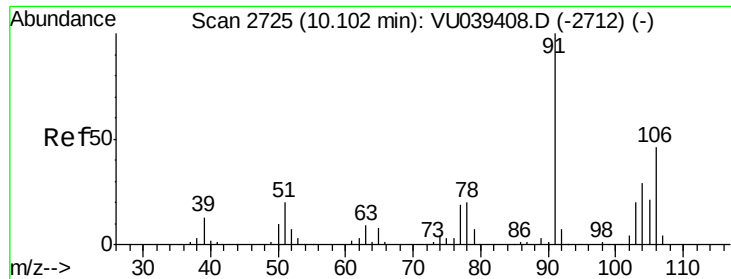
106 100

91 205.6 144.0 267.4



Abundance Ion 106.15 (105.85 to 106.85): VU039408.D (-2586) (-)

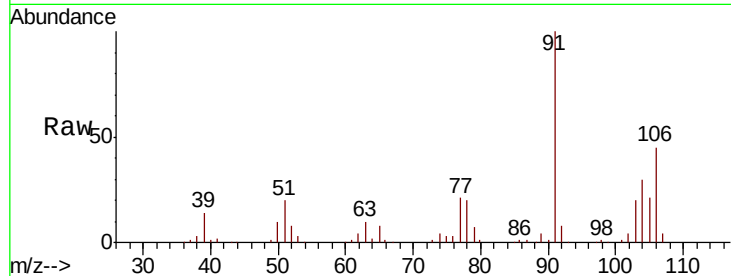




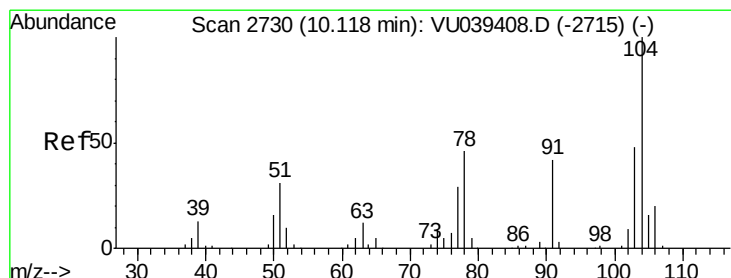
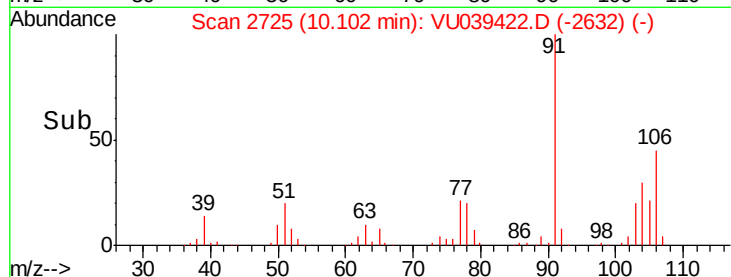
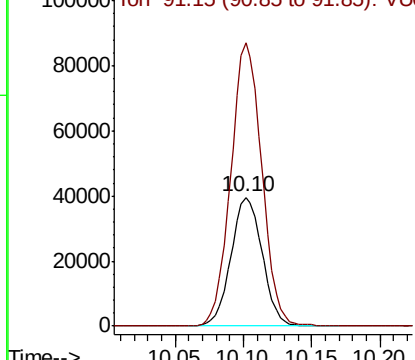
#54
o-Xylene
Concen: 4.951 ug/L
RT: 10.10 min Scan# 2725
Delta R.T. 0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00513

Tot Ion:106 Resp: 62983
Ion Ratio Lower Upper
106 100
91 220.3 154.6 287.2

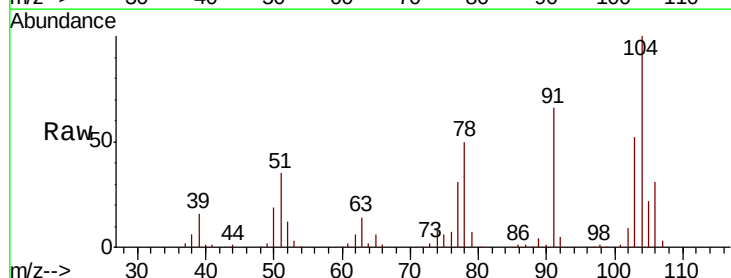


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

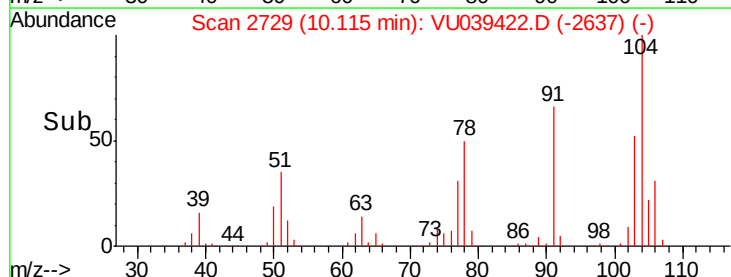
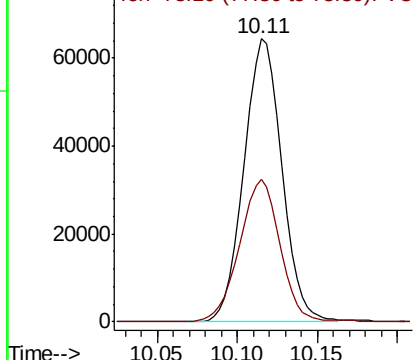


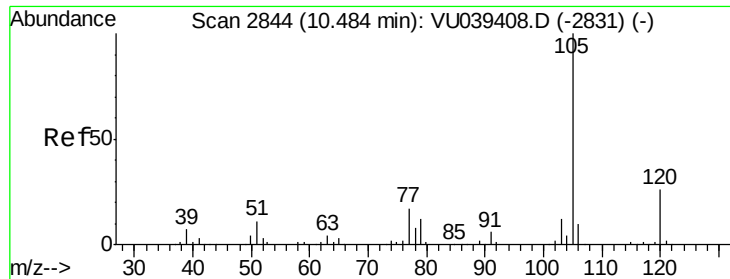
#55
Styrene
Concen: 4.714 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. -0.00 min
Lab File: VU039422.D
Acq: 10 Jul 2020 02:38

Tgt Ion:104 Resp: 104346
Ion Ratio Lower Upper
104 100
78 50.2 33.1 61.5



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





#56

Isopropylbenzene

Concen: 4.966 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

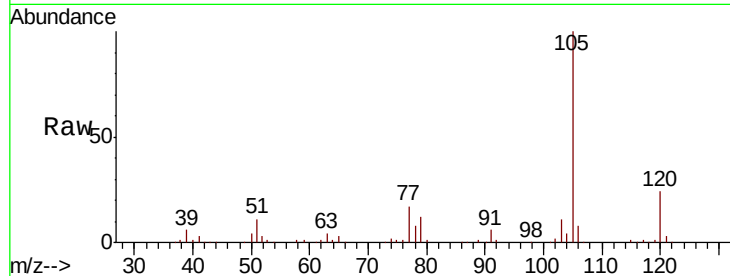
Tot Ion:105 Resp: 170859

Ion Ratio Lower Upper

105 100

120 25.0 20.7 31.1

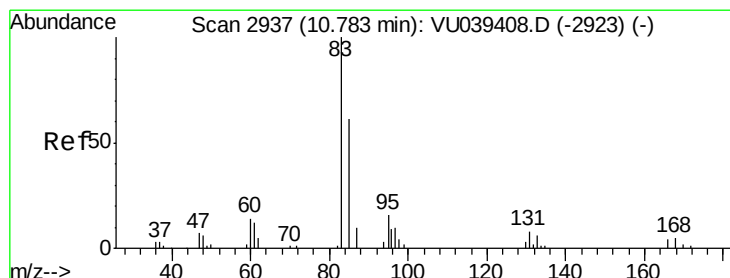
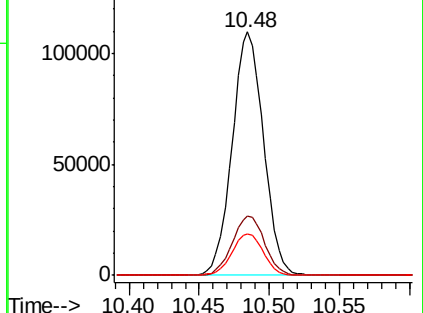
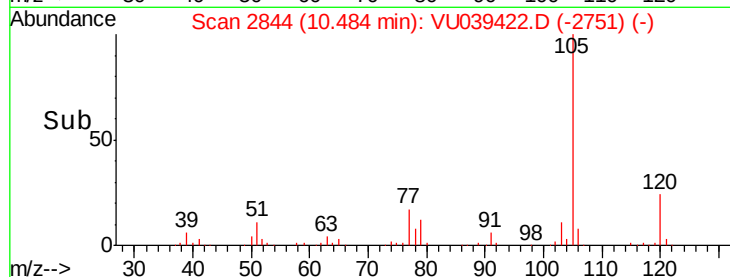
77 17.0 13.9 20.9



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: 4.765 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

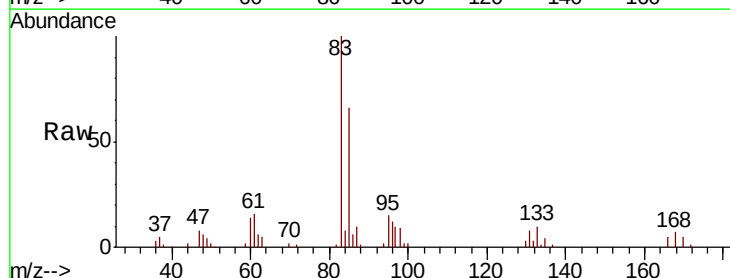
Tgt Ion: 83 Resp: 38056

Ion Ratio Lower Upper

83 100

85 66.4 46.1 85.7

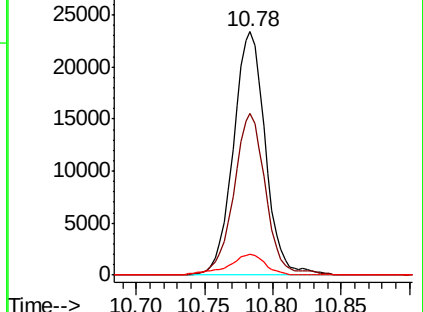
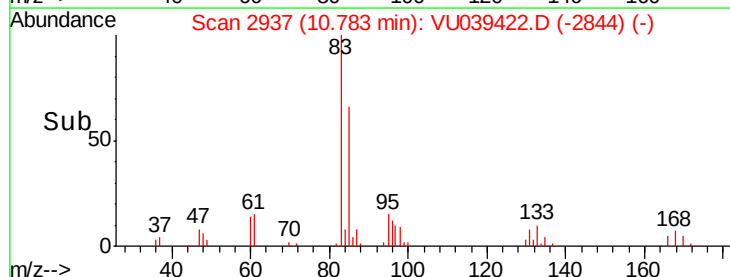
131 8.5 7.4 11.0

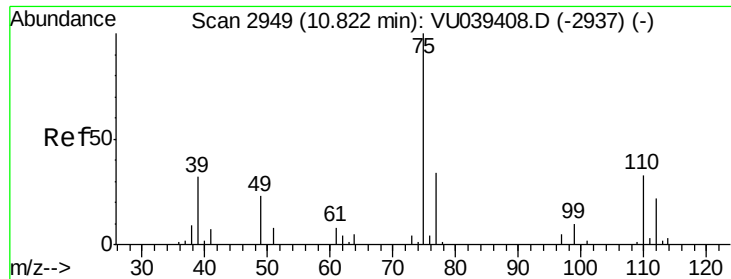


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.648 ug/L

RT: 10.83 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

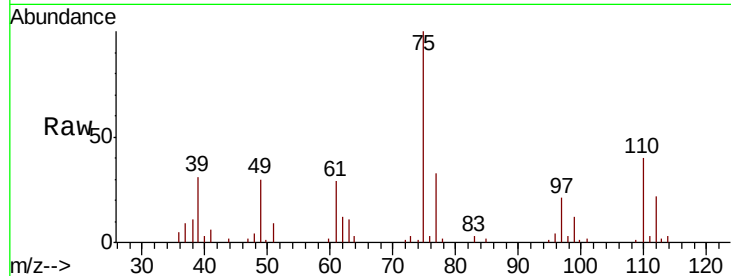
VSTD00513

Tot Ion: 75 Resp: 27365

Ion Ratio Lower Upper

75 100

77 33.8 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU039408.D (-2937) (-)

Ion 77.00 (76.70 to 77.70): VU039408.D (-2937) (-)

10.83

15000

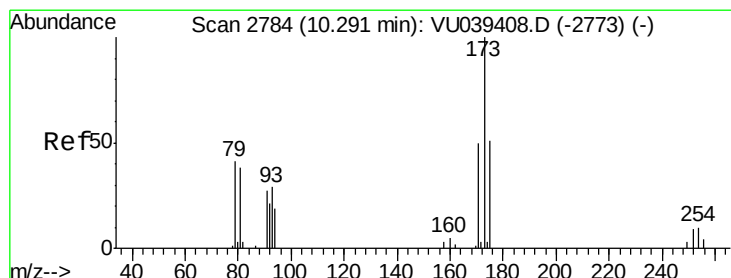
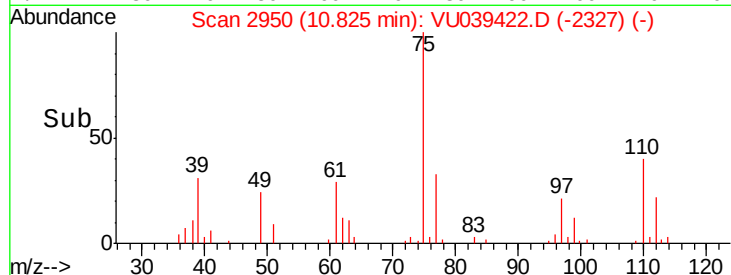
10000

5000

0

Time-->

10.75 10.80 10.85



#61

Bromoform

Concen: 4.502 ug/L

RT: 10.29 min Scan# 2785

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

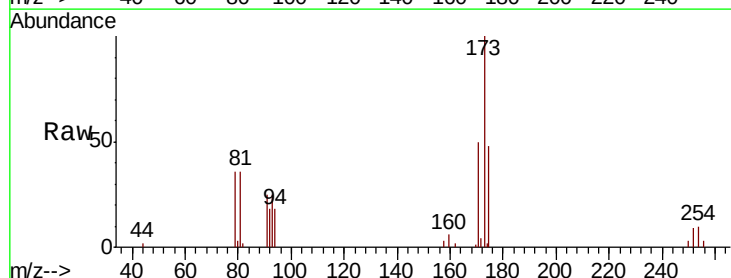
Tgt Ion: 173 Resp: 18731

Ion Ratio Lower Upper

173 100

175 49.4 37.5 56.3

254 9.0 6.7 10.1



Abundance Ion 172.90 (172.60 to 173.60): VU039408.D (-2773) (-)

Ion 174.90 (174.60 to 175.60): VU039408.D (-2773) (-)

Ion 253.75 (253.45 to 254.45): VU039408.D (-2773) (-)

10.29

15000

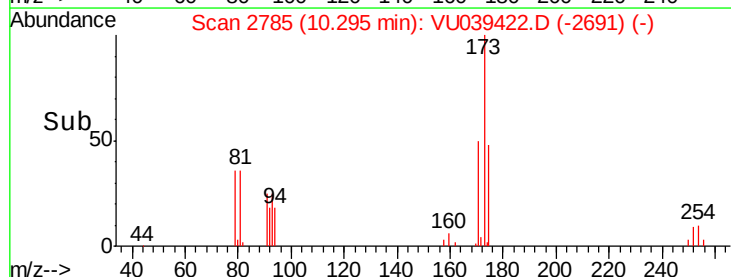
10000

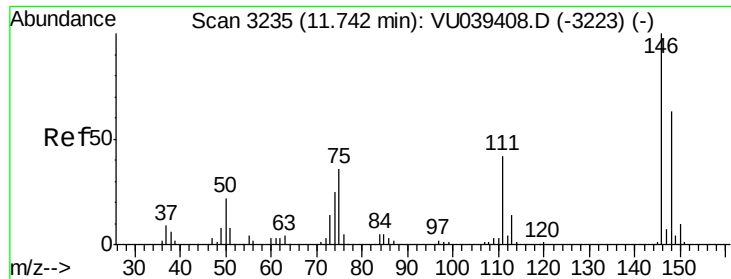
5000

0

Time-->

10.25 10.30 10.35





#62

1,3-Dichlorobenzene

Concen: 4.704 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

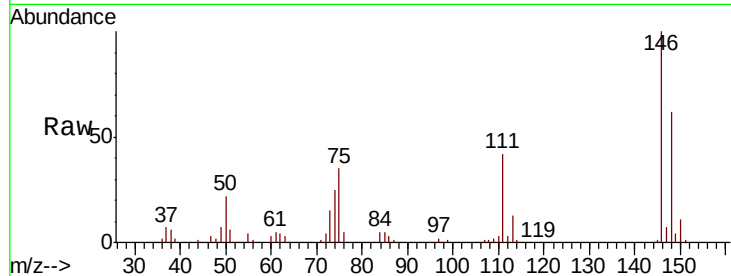
Tot Ion:146 Resp: 72780

Ion Ratio Lower Upper

146 100

111 41.6 29.0 53.8

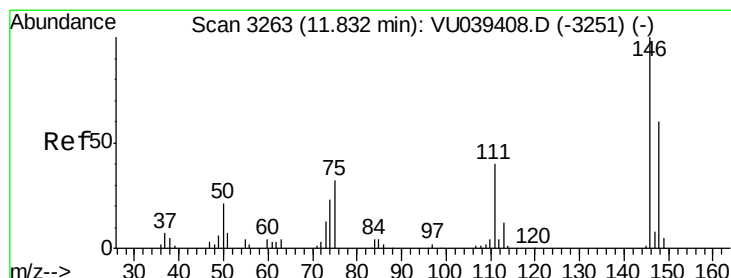
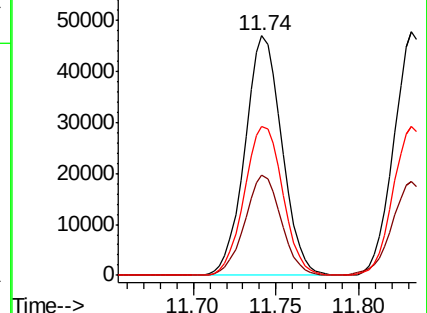
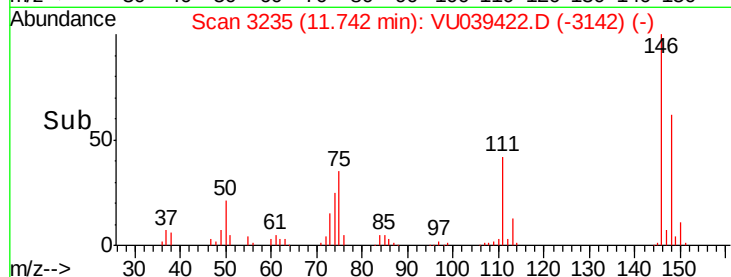
148 62.2 43.5 80.9



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



#63

1,4-Dichlorobenzene

Concen: 4.799 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

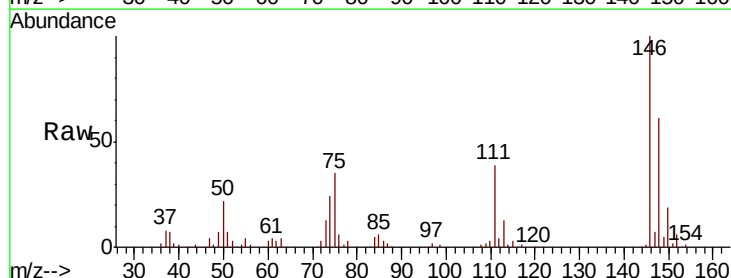
Tgt Ion:146 Resp: 74486

Ion Ratio Lower Upper

146 100

111 38.5 28.6 53.0

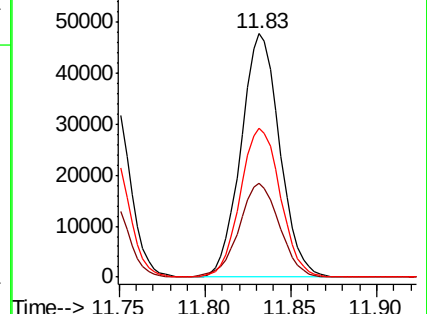
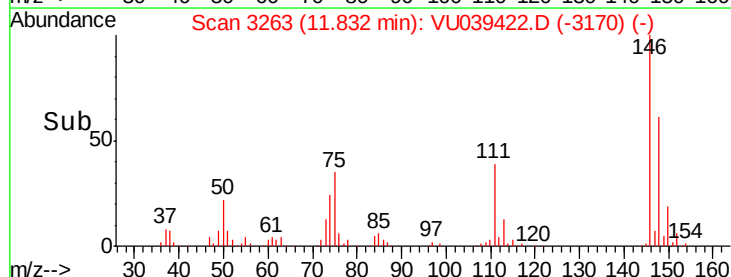
148 61.0 45.0 83.6

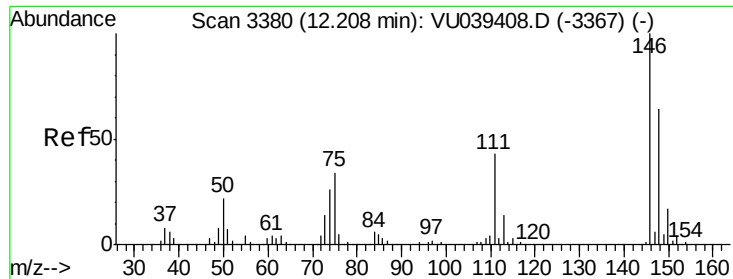


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

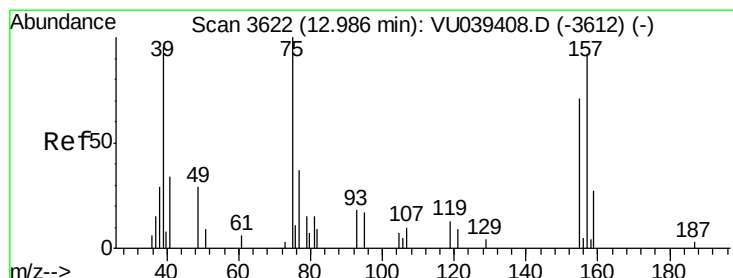
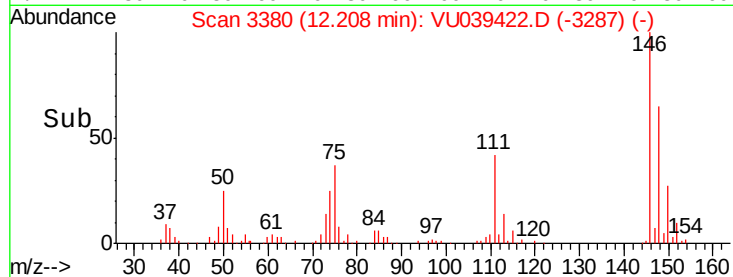
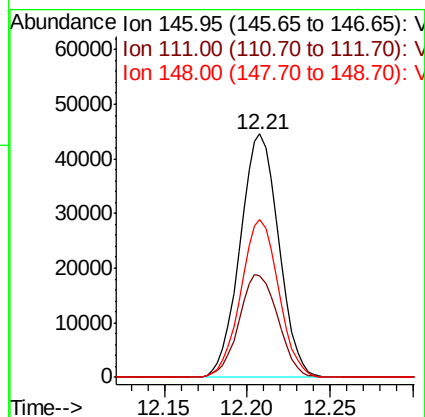
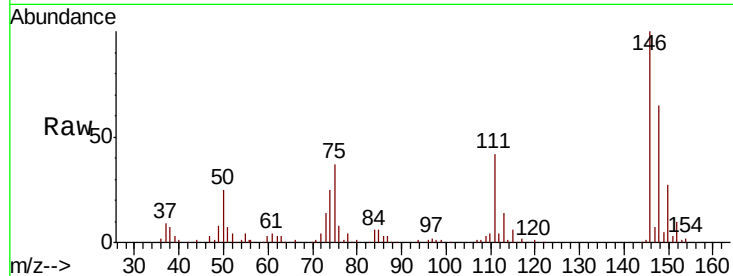




#65
 1,2-Dichlorobenzene
 Concen: 4.650 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

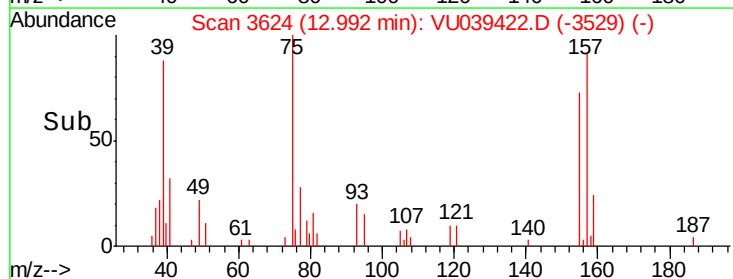
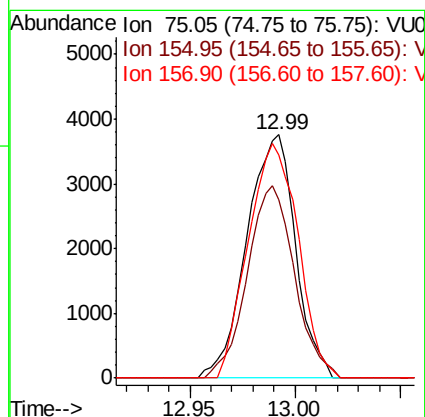
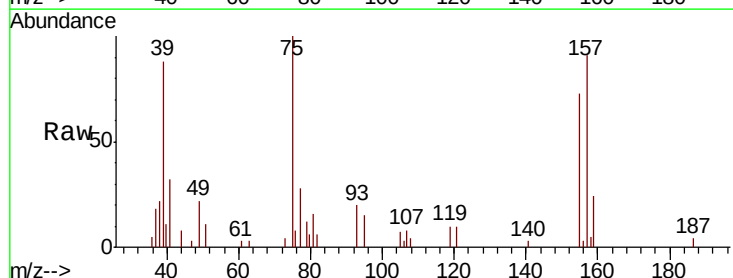
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

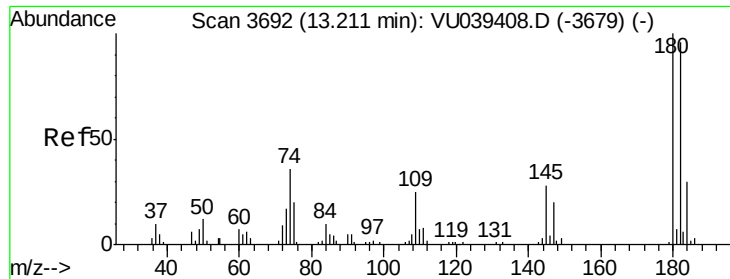
Tot Ion:146 Resp: 72109
 Ion Ratio Lower Upper
 146 100
 111 41.8 35.0 52.4
 148 64.6 50.6 75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.390 ug/L
 RT: 12.99 min Scan# 3624
 Delta R.T. 0.01 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Tgt Ion: 75 Resp: 6014
 Ion Ratio Lower Upper
 75 100
 155 73.5 51.9 77.9
 157 91.5 63.2 94.8

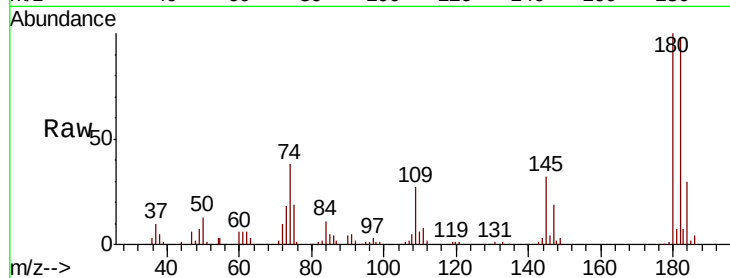




#67
 1,3,5-Trichlorobenzene
 Concen: 4.668 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. -0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00513

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.4
184	30.2	24.2	36.4
145	31.9	24.2	36.2



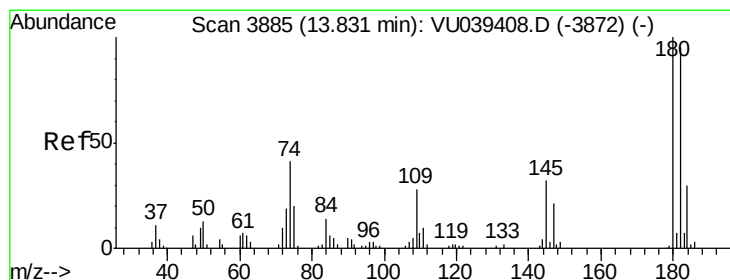
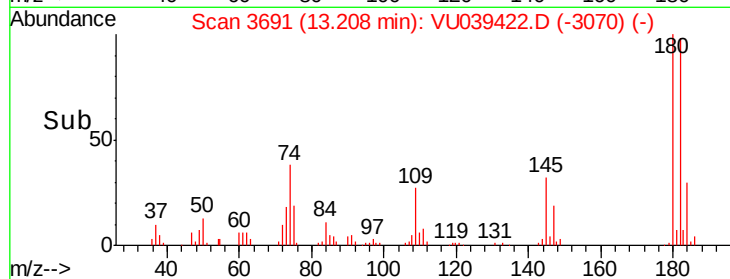
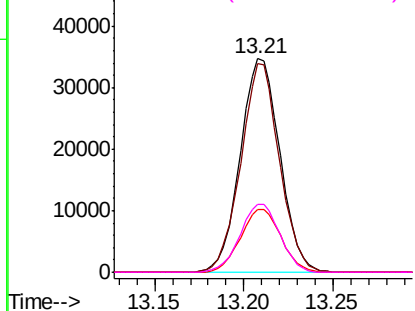
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

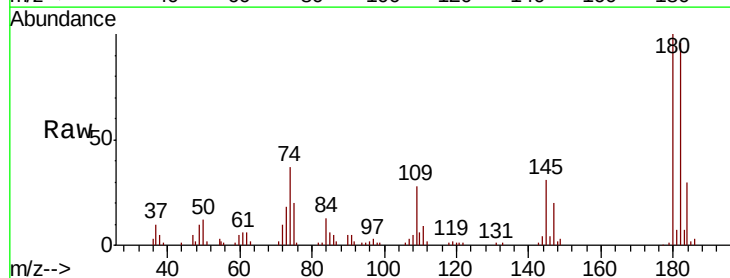
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.799 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU039422.D
 Acq: 10 Jul 2020 02:38

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	79.4	119.2
145	31.3	26.4	39.6

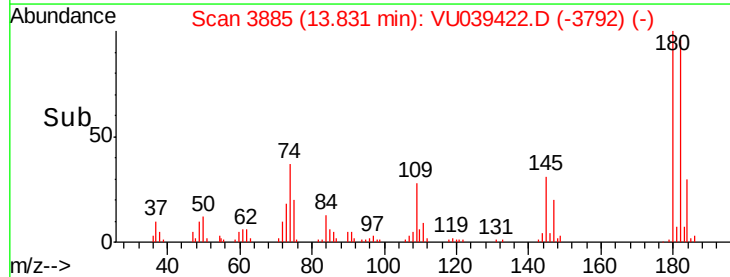
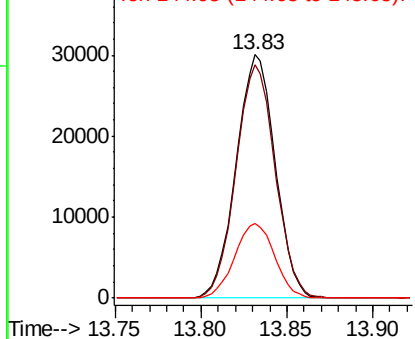


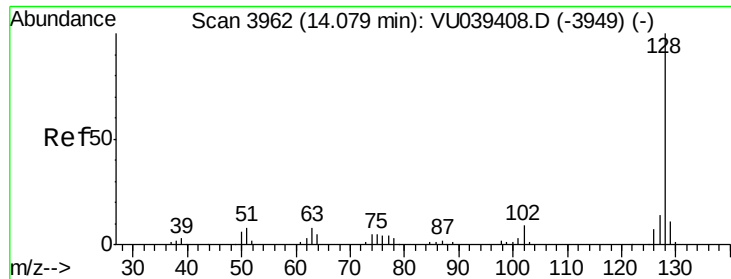
Abundance

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: 4.517 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00513

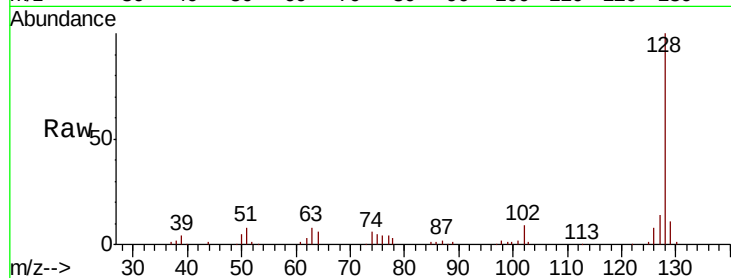
Tot Ion:128 Resp: 90049

Ion Ratio Lower Upper

128 100

129 11.1 8.6 13.0

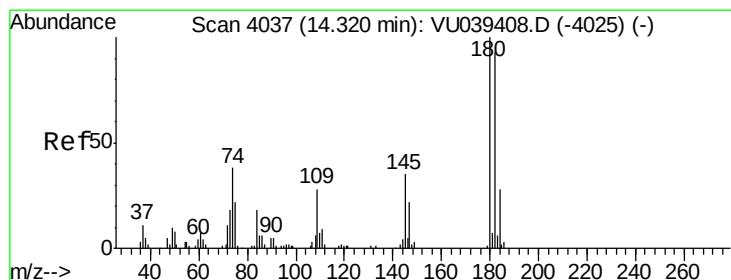
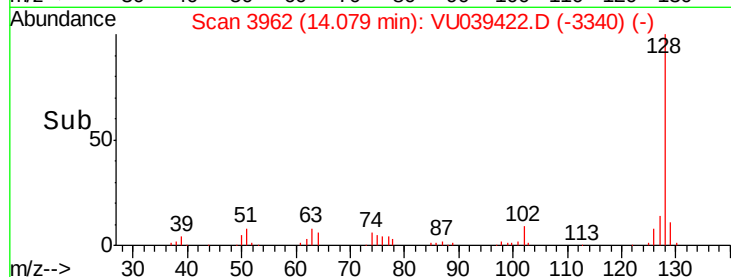
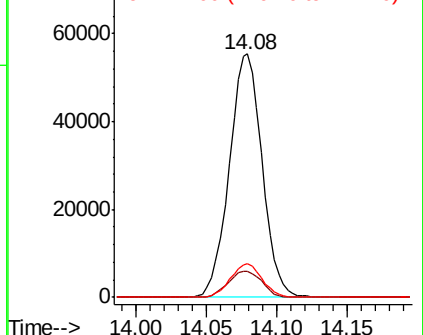
127 13.5 10.4 15.6



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: 4.594 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU039422.D

Acq: 10 Jul 2020 02:38

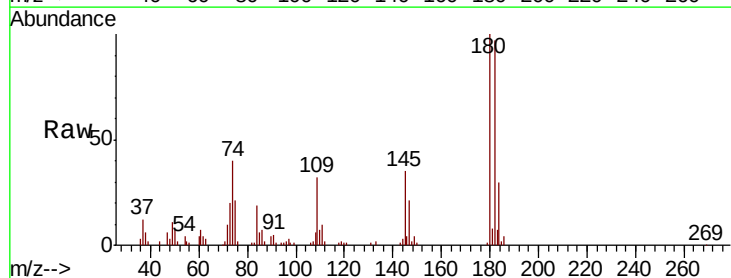
Tgt Ion:180 Resp: 42168

Ion Ratio Lower Upper

180 100

182 96.1 74.2 111.2

145 33.6 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

