

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122120\
 Data File : VU041693.D
 Acq On : 21 Dec 2020 10:31
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Quant Time: Dec 22 02:45:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Dec 21 09:47:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	143343	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	137998	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	76762	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	55591	4.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	99.20%
7) Chloroethane-d5	1.92	69	49640	5.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.40%
11) 1,1-Dichloroethene-d2	2.58	63	103651	5.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.40%
20) 2-Butanone-d5	4.65	46	185342	57.58	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	115.16%
24) Chloroform-d	5.08	84	108174	5.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.60%
26) 1,2-Dichloroethane-d4	5.71	65	60526	5.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.20%
32) Benzene-d6	5.74	84	219127	5.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.00%
36) 1,2-Dichloropropane-d6	6.70	67	72937	5.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	117.80%
41) Toluene-d8	7.90	98	205845	5.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.40%
43) trans-1,3-Dichloropropene-	8.18	79	31119	5.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	111.80%
46) 2-Hexanone-d5	8.64	63	169328	55.60	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.20%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	64229	5.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	77948	5.71	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	57500	4.735	ug/L	100
3) Chloromethane	1.53	50	53655	4.548	ug/L	97
5) Vinyl chloride	1.61	62	62424	4.792	ug/L	96
6) Bromomethane	1.86	94	44613	5.477	ug/L	98
8) Chloroethane	1.94	64	39131	4.422	ug/L	96
9) Trichlorofluoromethane	2.15	101	86173	5.226	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	50112	5.082	ug/L	92
12) 1,1-Dichloroethene	2.59	96	48218	4.959	ug/L	89
13) Acetone	2.66	43	104458	51.016	ug/L	97
14) Carbon disulfide	2.81	76	154672	4.603	ug/L	99
15) Methyl Acetate	2.97	43	23968	4.503	ug/L #	88
16) Methylene chloride	3.06	84	56805	4.891	ug/L	93
17) Methyl tert-butyl Ether	3.38	73	132727	5.116	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	51579	5.128	ug/L	93
19) 1,1-Dichloroethane	3.88	63	92769	4.935	ug/L	99
21) 2-Butanone	4.73	43	170497	51.121	ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	56835	5.113	ug/L	95

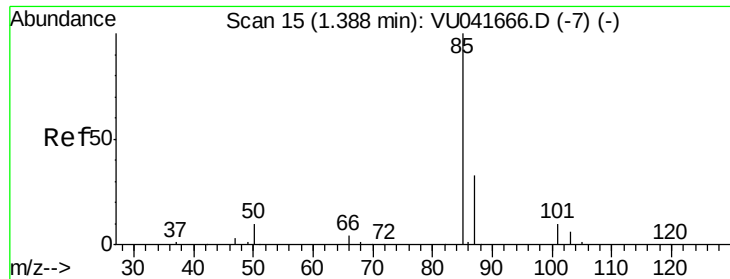
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU122120\
 Data File : VU041693.D
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Dec 21 09:47:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	27283	5.343	ug/L	92
25) Chloroform	5.10	83	96382	5.091	ug/L	97
27) 1,2-Dichloroethane	5.81	62	63158	4.927	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	81924	5.170	ug/L	99
30) Cyclohexane	5.40	56	81739	4.602	ug/L	95
31) Carbon tetrachloride	5.54	117	71707	5.233	ug/L	97
33) Benzene	5.79	78	214555	4.861	ug/L	100
34) Trichloroethene	6.55	95	58245	5.252	ug/L	95
35) Methylcyclohexane	6.77	83	93498	5.215	ug/L	99
37) 1,2-Dichloropropane	6.80	63	58467	5.179	ug/L	99
38) Bromodichloromethane	7.11	83	72528	5.164	ug/L	97
39) cis-1,3-Dichloropropene	7.61	75	83652	5.001	ug/L	98
40) 4-Methyl-2-pentanone	7.80	43	387362	48.223	ug/L	97
42) Toluene	7.97	91	231069	5.071	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	75625	5.056	ug/L	99
45) 1,1,2-Trichloroethane	8.40	97	44757	5.361	ug/L	98
47) Tetrachloroethene	8.56	164	42719	5.503	ug/L	97
48) 2-Hexanone	8.69	43	298523	51.065	ug/L	98
49) Dibromochloromethane	8.81	129	53401	5.569	ug/L	98
50) 1,2-Dibromoethane	8.93	107	43590	5.278	ug/L	98
51) Chlorobenzene	9.45	112	149383	5.274	ug/L	97
52) Ethylbenzene	9.57	91	246871	5.088	ug/L	98
53) m,p-Xylene	9.69	106	96546	5.335	ug/L	99
54) o-Xylene	10.10	106	92499	5.219	ug/L	96
55) Styrene	10.11	104	163144	5.329	ug/L	100
56) Isopropylbenzene	10.48	105	247359	5.243	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.78	83	58144	5.005	ug/L	98
59) 1,2,3-Trichloropropane	10.82	75	43350	5.113	ug/L	99
61) Bromoform	10.29	173	32820	5.656	ug/L	98
62) 1,3-Dichlorobenzene	11.74	146	120921	5.151	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	124528	5.276	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	114628	4.986	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.99	75	10232	4.746	ug/L #	76
67) 1,3,5-Trichlorobenzene	13.21	180	90559	5.082	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	77070	5.154	ug/L	100
69) Naphthalene	14.07	128	142346	4.598	ug/L	99
70) 1,2,3-Trichlorobenzene	14.32	180	72336	5.075	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.735 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

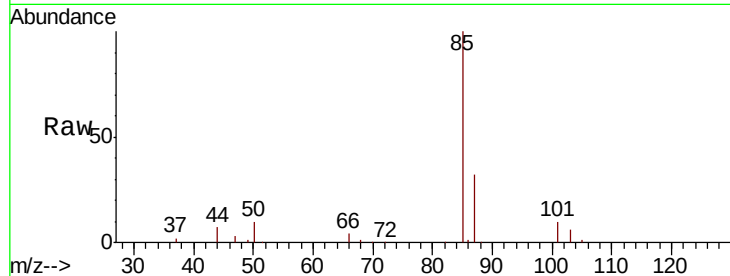
VSTD00521

Tot Ion: 85 Resp: 57500

Ion Ratio Lower Upper

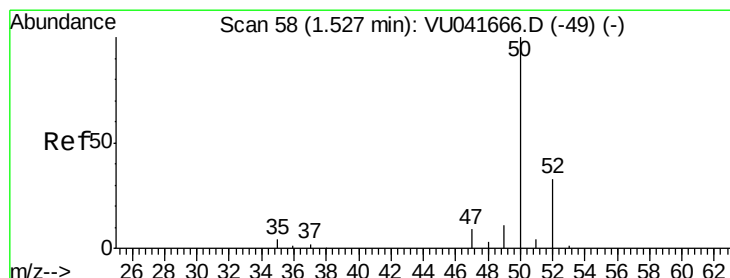
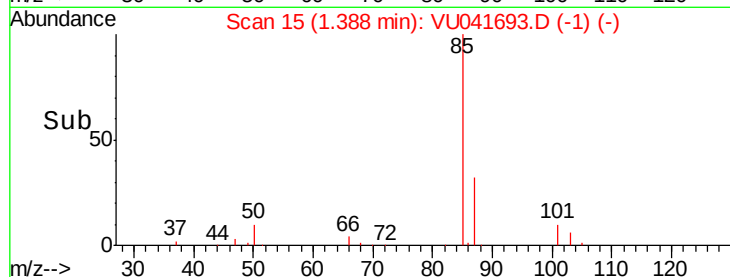
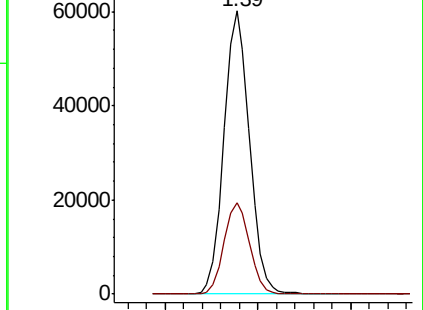
85 100

87 32.2 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU041666.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041666.D (-7) (-)



#3

Chloromethane

Concen: 4.548 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041693.D

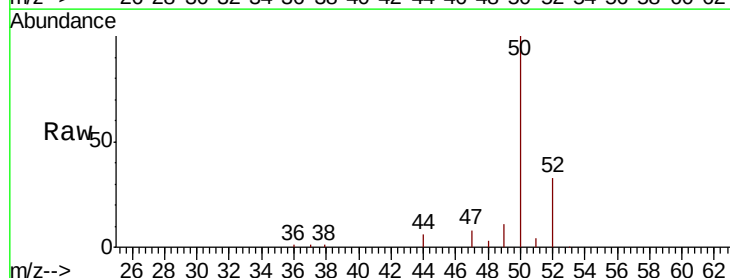
Acq: 21 Dec 2020 10:31

Tgt Ion: 50 Resp: 53655

Ion Ratio Lower Upper

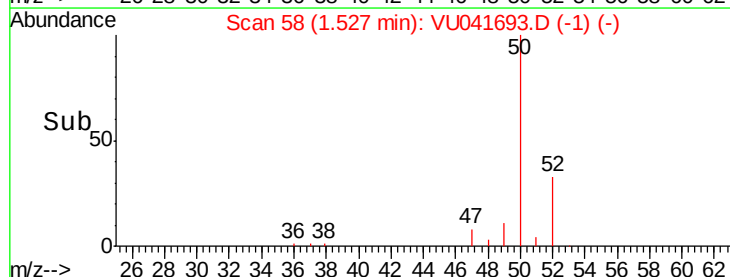
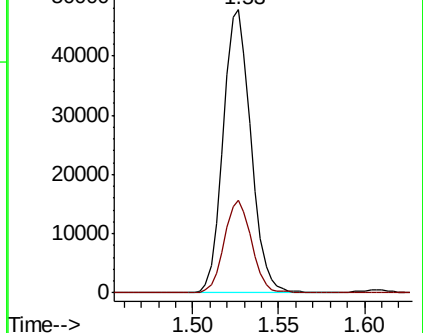
50 100

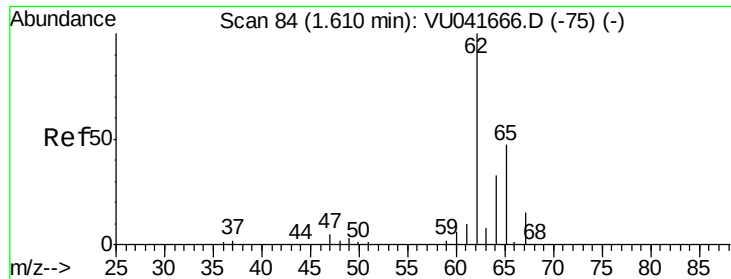
52 32.7 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU041666.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU041666.D (-49) (-)





#5

Vinyl chloride

Concen: 4.792 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

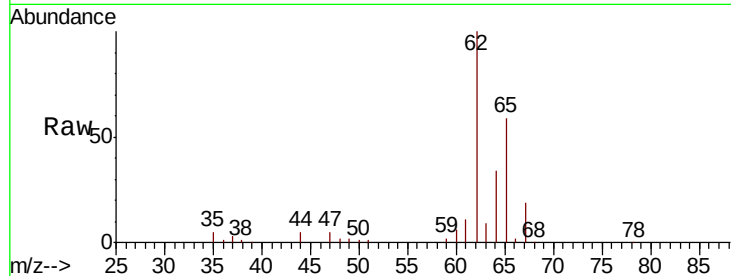
VSTD00521

Tot Ion: 62 Resp: 62424

Ion Ratio Lower Upper

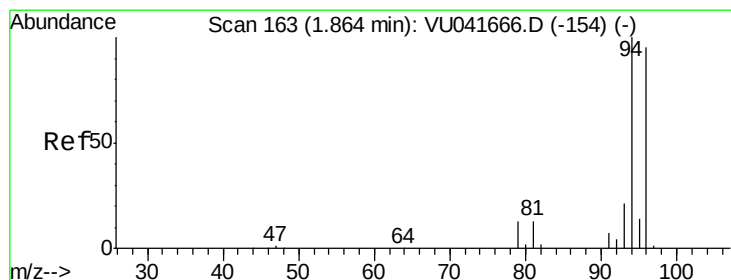
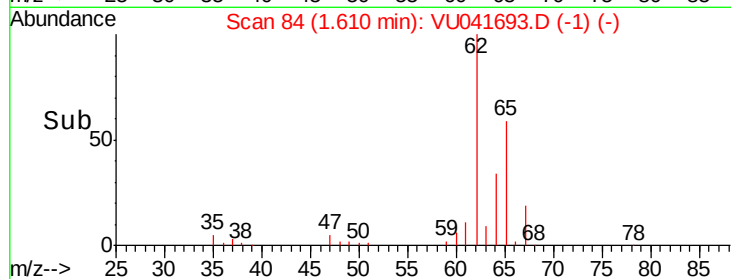
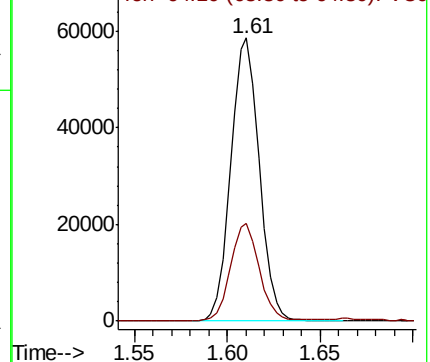
62 100

64 34.3 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.477 ug/L

RT: 1.86 min Scan# 163

Delta R.T. 0.00 min

Lab File: VU041693.D

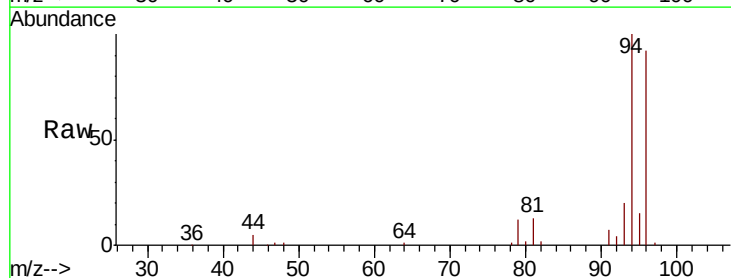
Acq: 21 Dec 2020 10:31

Tgt Ion: 94 Resp: 44613

Ion Ratio Lower Upper

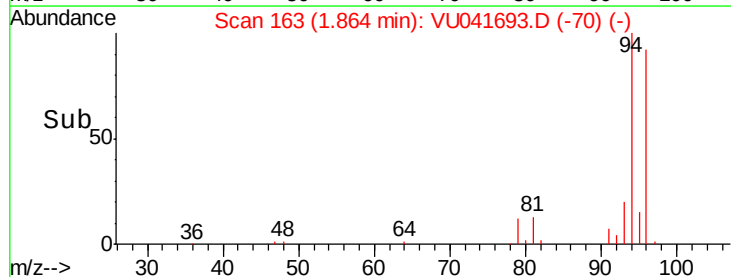
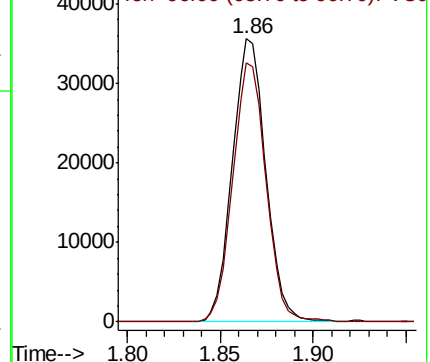
94 100

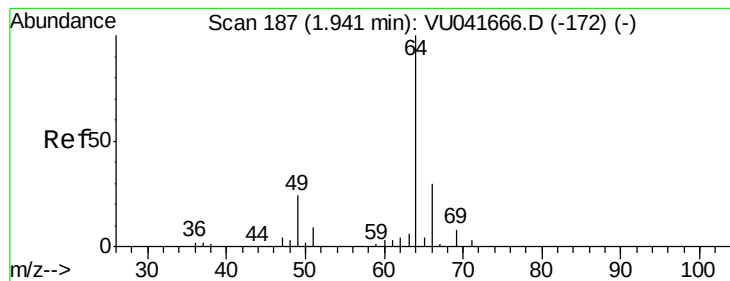
96 91.7 65.7 121.9



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 4.422 ug/L

RT: 1.94 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

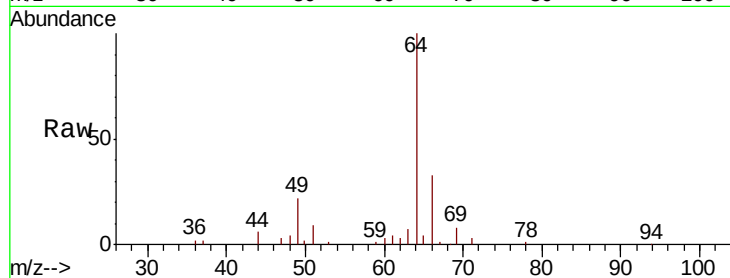
VSTD00521

Tot Ion: 64 Resp: 39131

Ion Ratio Lower Upper

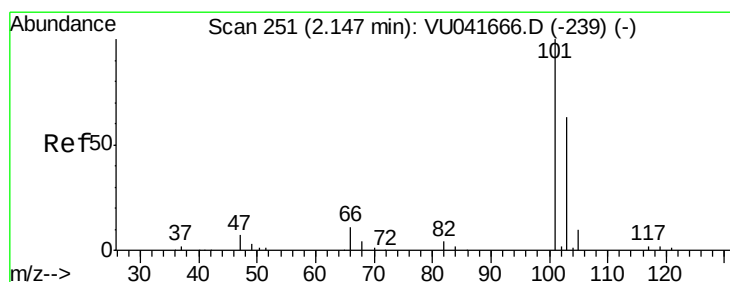
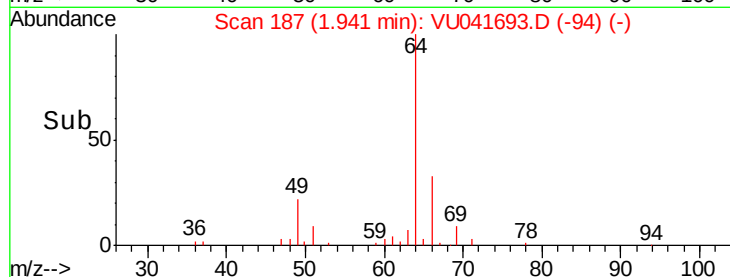
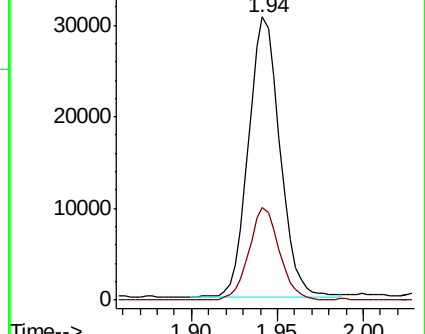
64 100

66 32.7 21.6 40.0



Abundance Ion 64.10 (63.80 to 64.80): VU041666.D (-172) (-)

Ion 66.05 (65.75 to 66.75): VU041666.D (-172) (-)



#9

Trichlorofluoromethane

Concen: 5.226 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041693.D

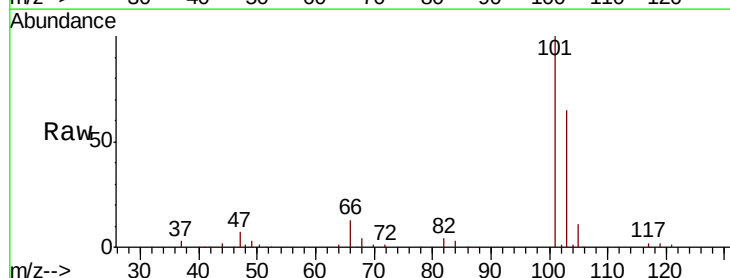
Acq: 21 Dec 2020 10:31

Tgt Ion:101 Resp: 86173

Ion Ratio Lower Upper

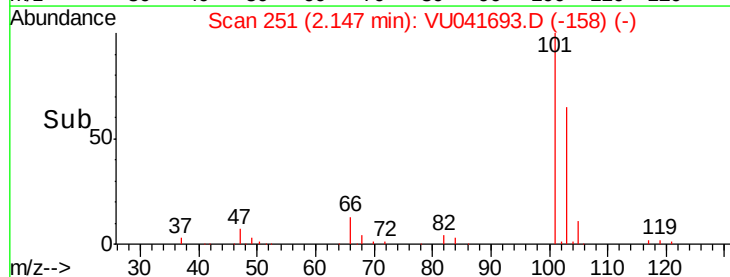
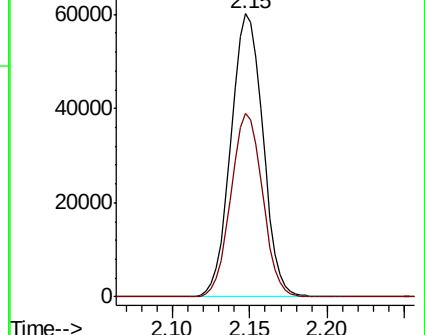
101 100

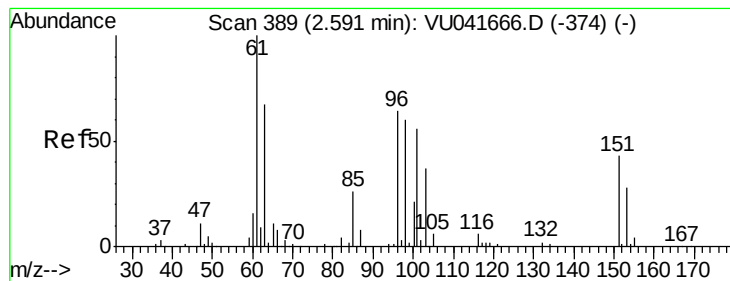
103 64.2 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU041666.D (-239) (-)

Ion 103.00 (102.70 to 103.70): VU041666.D (-239) (-)





#10

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

Concen: 5.082 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

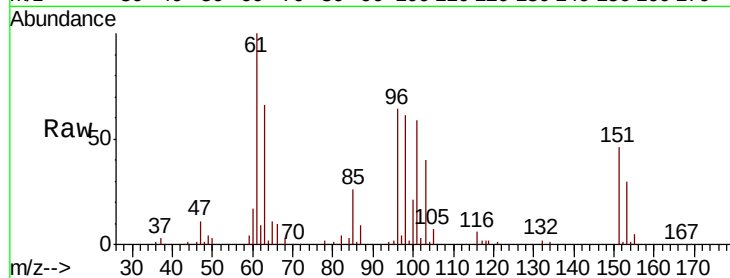
Tot Ion:101 Resp: 50112

Ion Ratio Lower Upper

101 100

85 43.7 33.6 50.4

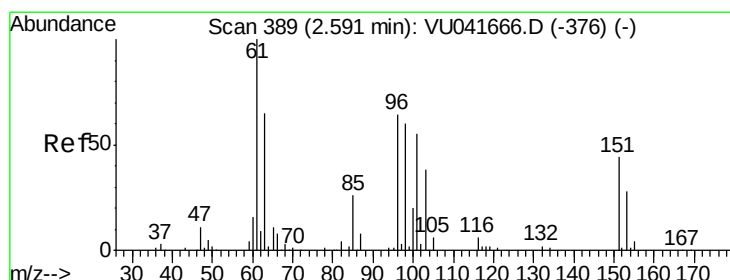
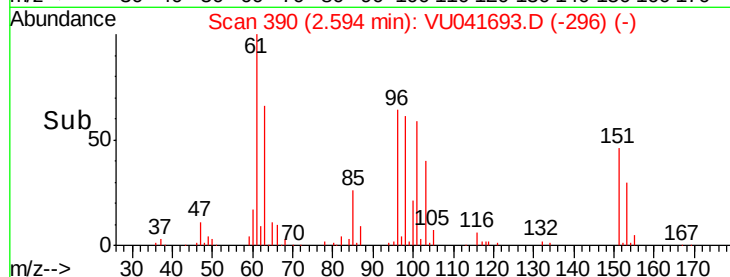
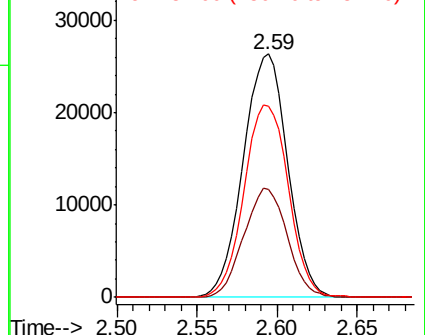
151 79.1 56.2 84.4



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: 4.959 ug/L

RT: 2.59 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

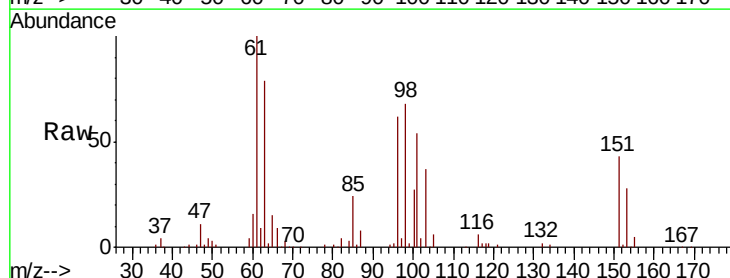
Tgt Ion: 96 Resp: 48218

Ion Ratio Lower Upper

96 100

61 161.0 123.8 230.0

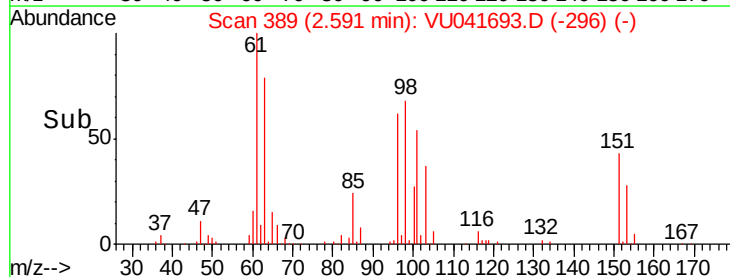
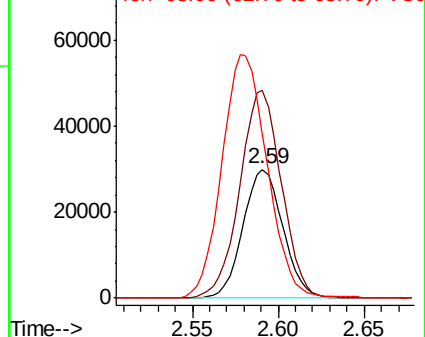
63 127.5 81.0 150.4

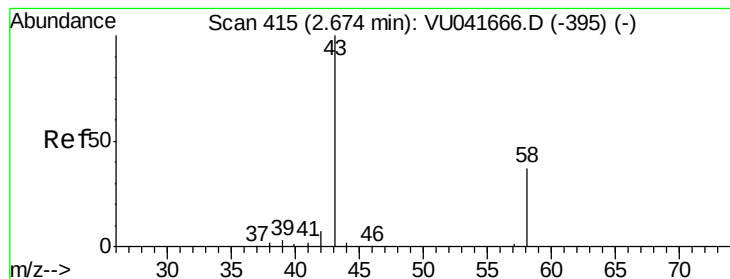


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 51.016 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

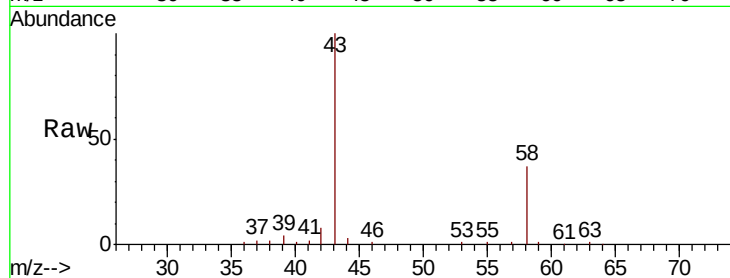
VSTD00521

Tot Ion: 43 Resp: 104458

Ion Ratio Lower Upper

43 100

58 34.9 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU041666.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041666.D (-395) (-)

2.66

25000

20000

15000

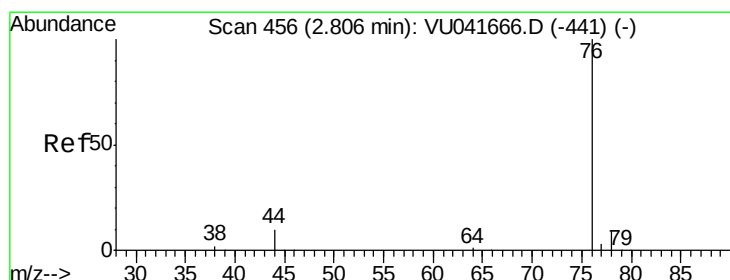
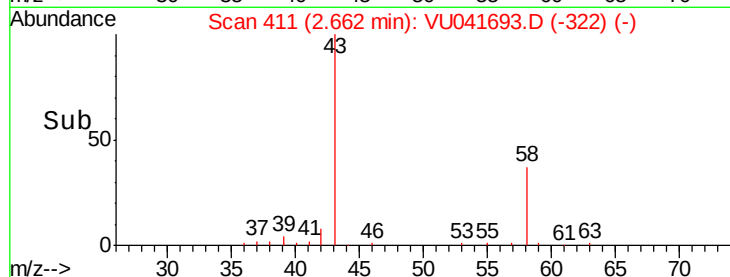
10000

5000

0

2.60 2.80 3.00

Time-->



#14

Carbon disulfide

Concen: 4.603 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041693.D

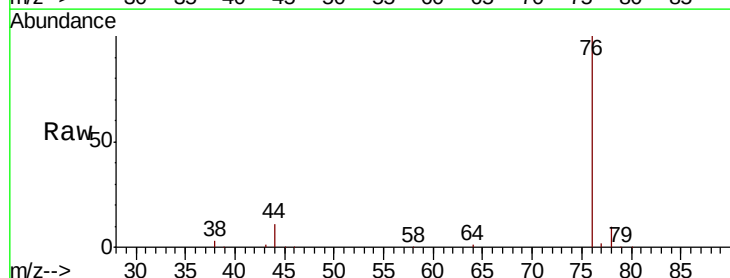
Acq: 21 Dec 2020 10:31

Tgt Ion: 76 Resp: 154672

Ion Ratio Lower Upper

76 100

78 9.7 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VU041666.D (-441) (-)

Ion 78.00 (77.70 to 78.70): VU041666.D (-441) (-)

2.81

100000

80000

60000

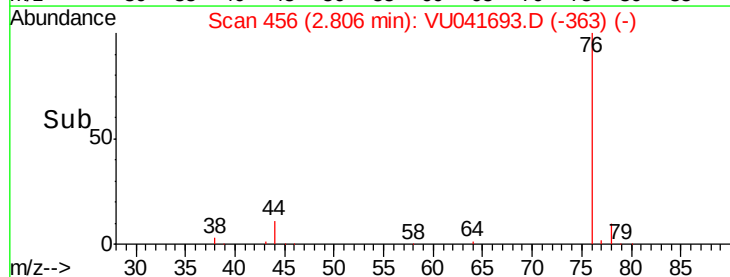
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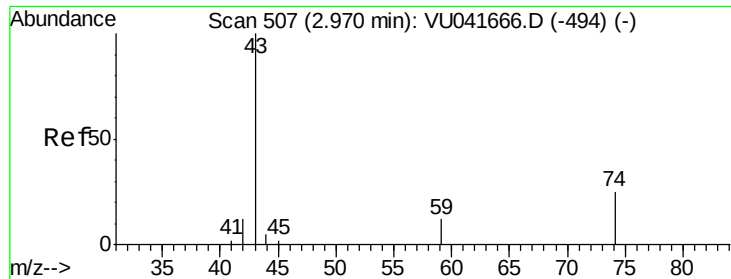
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0

2.75 2.80 2.85 2.90

Time-->

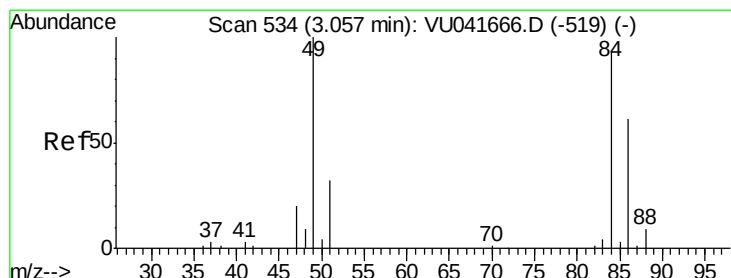
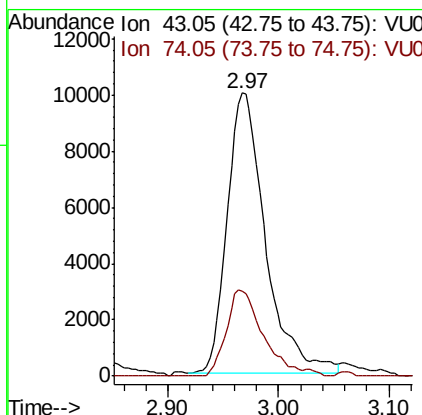
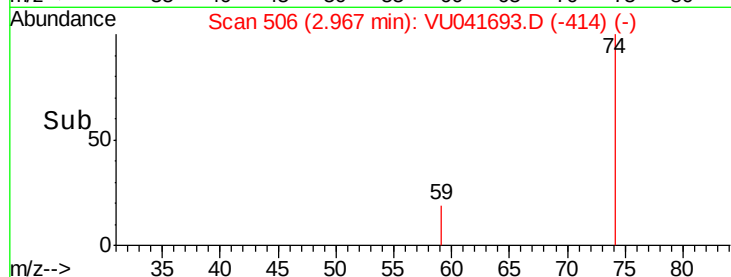
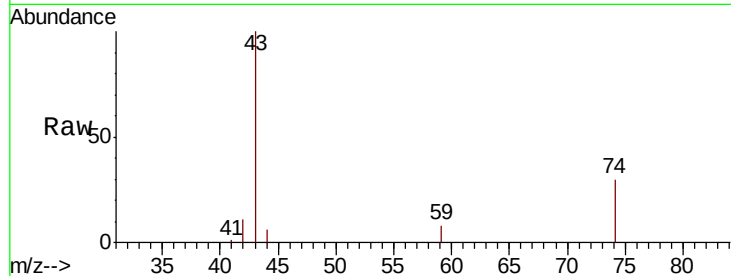




#15
Methvl Acetate
Concen: 4.503 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

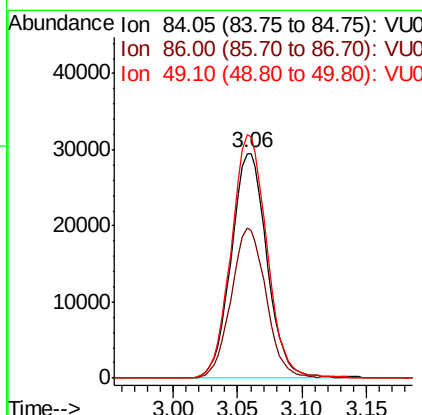
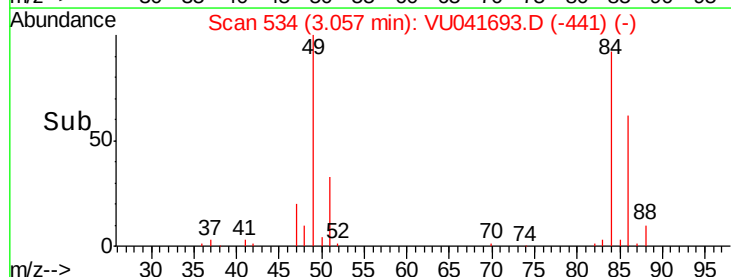
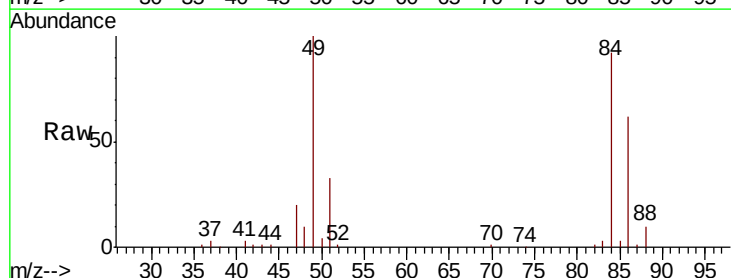
Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

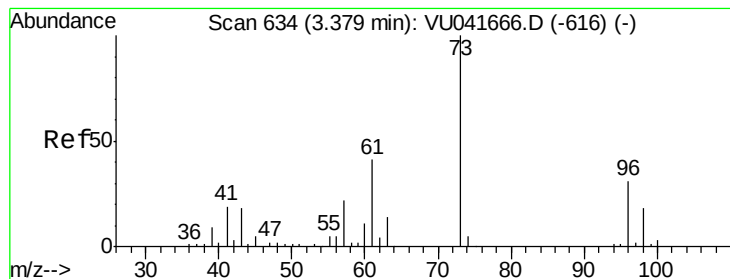
Tot Ion: 43 Resp: 23968
Ion Ratio Lower Upper
43 100
74 30.1 19.2 28.8#



#16
Methylene chloride
Concen: 4.891 ug/L
RT: 3.06 min Scan# 534
Delta R.T. 0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

Tgt Ion: 84 Resp: 56805
Ion Ratio Lower Upper
84 100
86 66.7 45.1 83.7
49 108.2 83.1 154.3





#17

Methyl tert-butyl Ether

Concen: 5.116 ug/L

RT: 3.38 min Scan# 633

Delta R.T. -0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

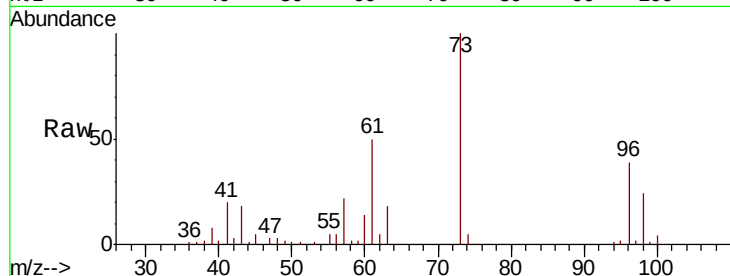
Tot Ion: 73 Resp: 132727

Ion Ratio Lower Upper

73 100

43 18.2 14.7 22.1

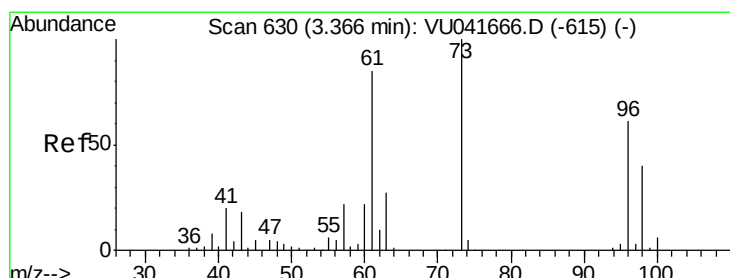
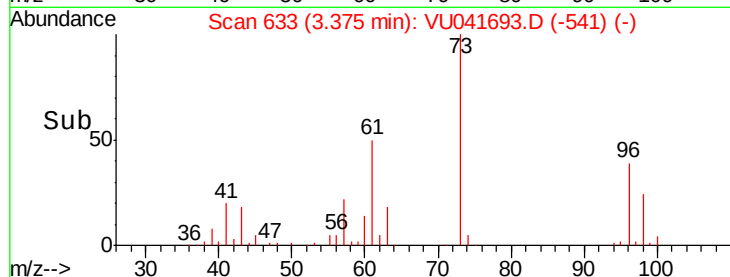
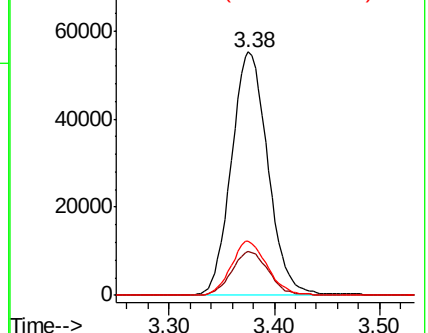
57 22.0 18.2 27.4



Abundance Ion 73.10 (72.80 to 73.80): VU041666.D (-616) (-)

Ion 43.05 (42.75 to 43.75): VU041666.D (-616) (-)

Ion 57.10 (56.80 to 57.80): VU041666.D (-616) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.128 ug/L

RT: 3.37 min Scan# 630

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

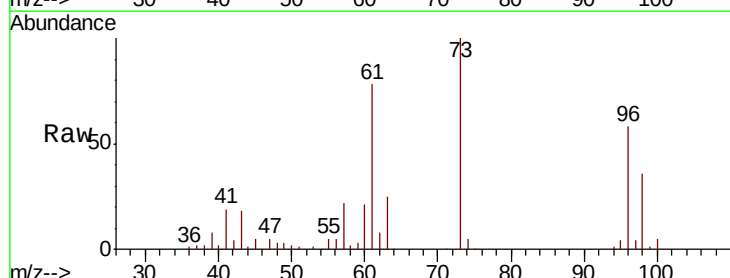
Tgt Ion: 96 Resp: 51579

Ion Ratio Lower Upper

96 100

61 134.3 101.8 189.0

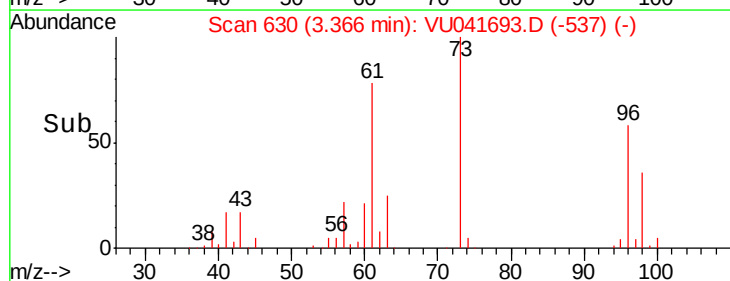
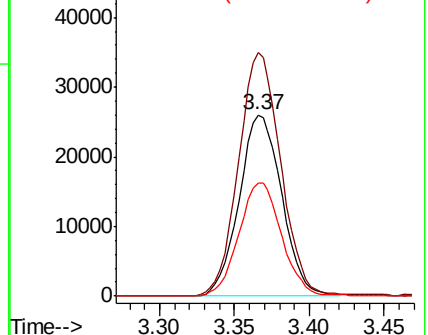
98 62.4 44.4 82.5

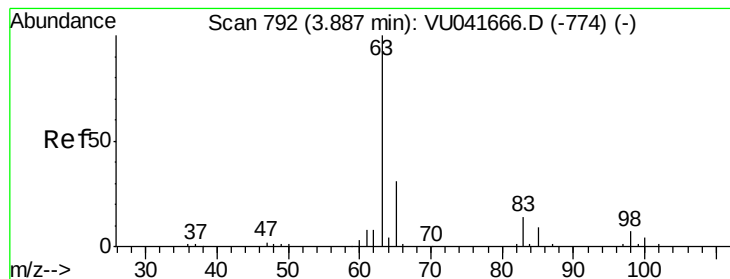


Abundance Ion 96.00 (95.70 to 96.70): VU041666.D (-615) (-)

Ion 61.05 (60.75 to 61.75): VU041666.D (-615) (-)

Ion 97.95 (97.65 to 98.65): VU041666.D (-615) (-)





#19

1,1-Dichloroethane

Concen: 4.935 ug/L

RT: 3.88 min Scan# 791

Delta R.T. -0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

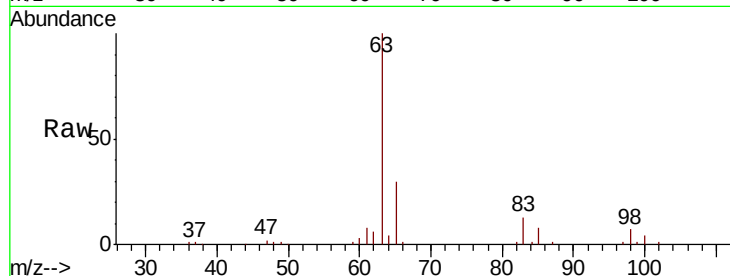
Tot Ion: 63 Resp: 92769

Ion Ratio Lower Upper

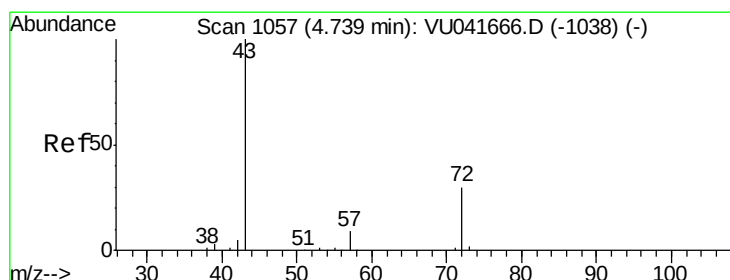
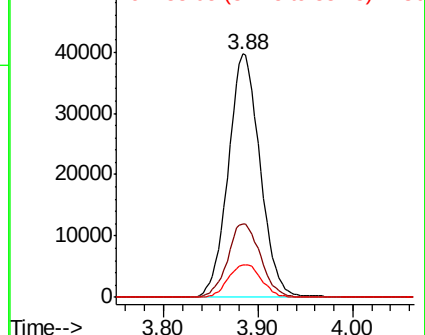
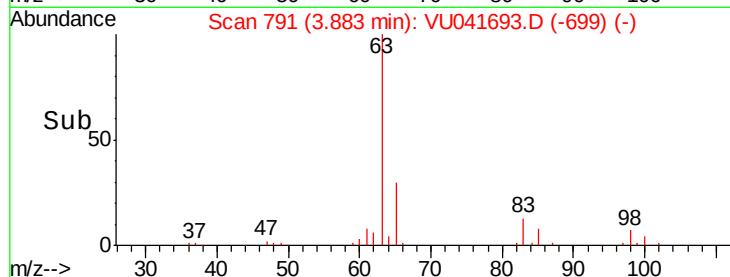
63 100

65 30.1 21.3 39.6

83 13.3 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU041693.D (-699) (-)



#21

2-Butanone

Concen: 51.121 ug/L

RT: 4.73 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VU041693.D

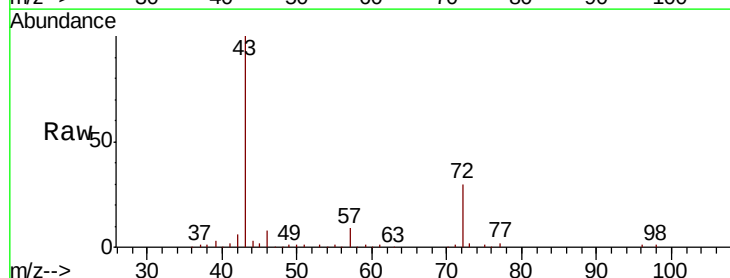
Acq: 21 Dec 2020 10:31

Tgt Ion: 43 Resp: 170497

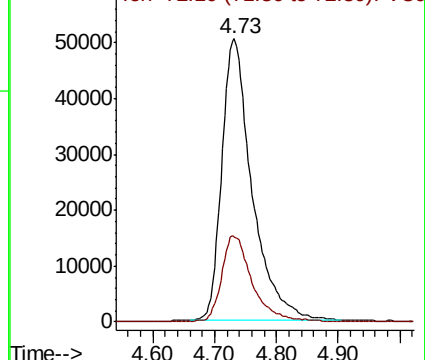
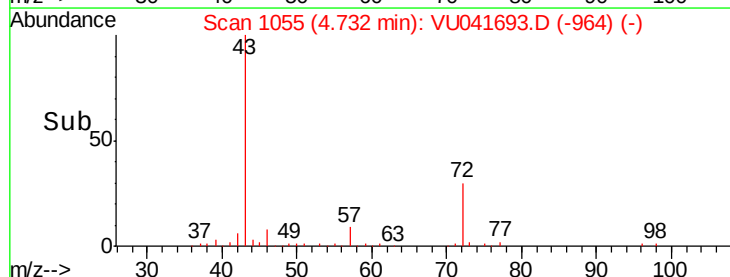
Ion Ratio Lower Upper

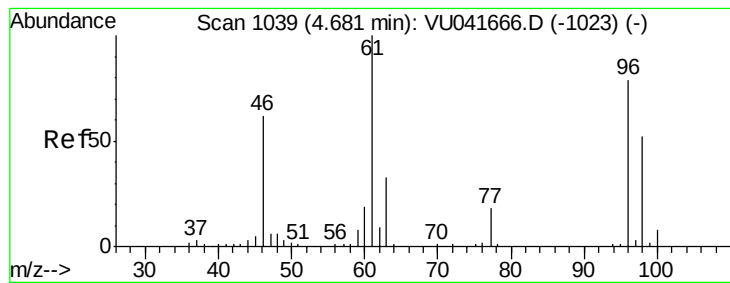
43 100

72 30.9 14.6 44.0



Abundance Ion 43.05 (42.75 to 43.75): VU041693.D (-964) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.113 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

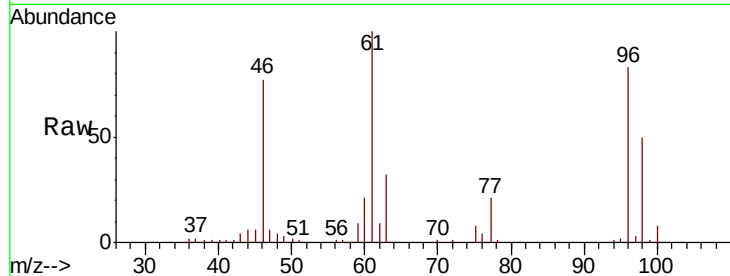
Tot Ion: 96 Resp: 56835

Ion Ratio Lower Upper

96 100

61 121.0 88.8 165.0

68 0.0 0.0 0.0

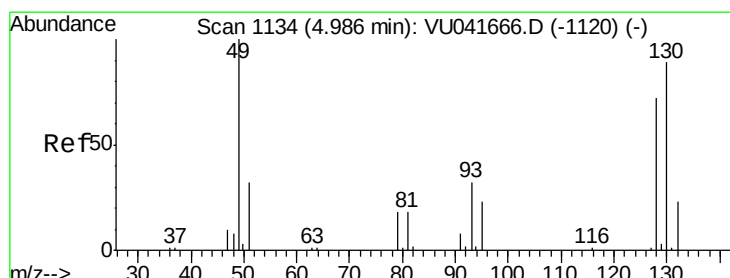
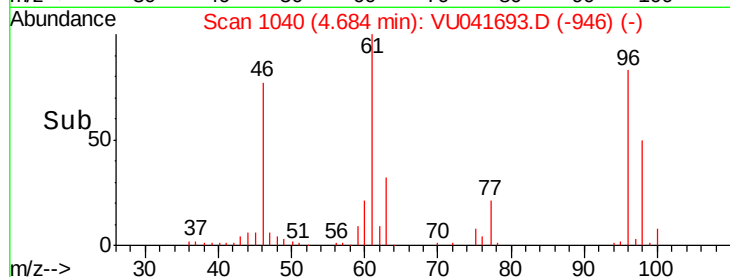
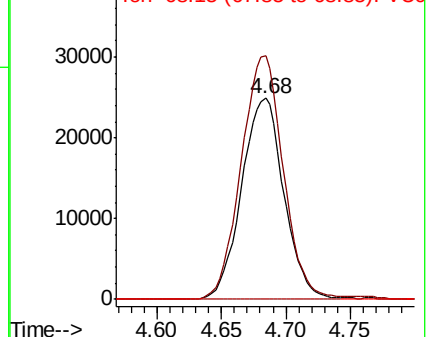


Abundance

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: 5.343 ug/L

RT: 4.99 min Scan# 1136

Delta R.T. 0.01 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Tgt Ion:128 Resp: 27283

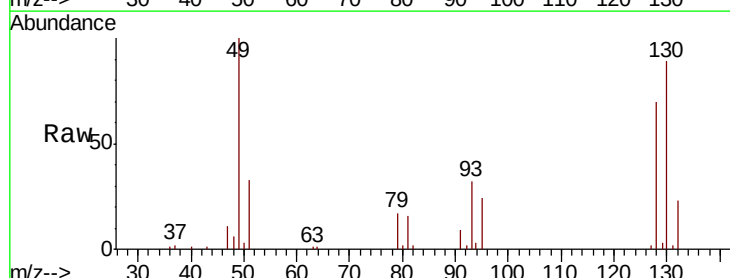
Ion Ratio Lower Upper

128 100

49 143.7 109.3 203.1

130 128.4 84.8 157.6

51 47.8 40.6 61.0



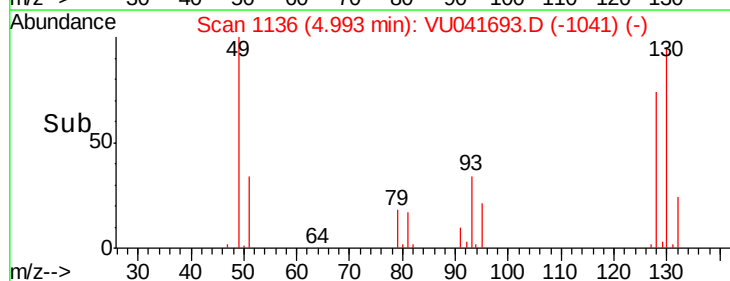
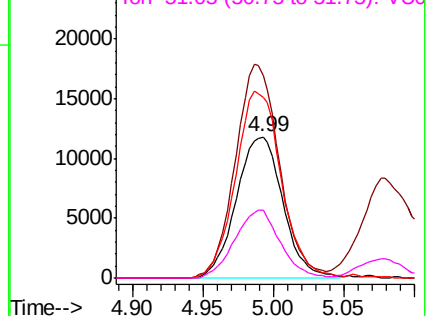
Abundance

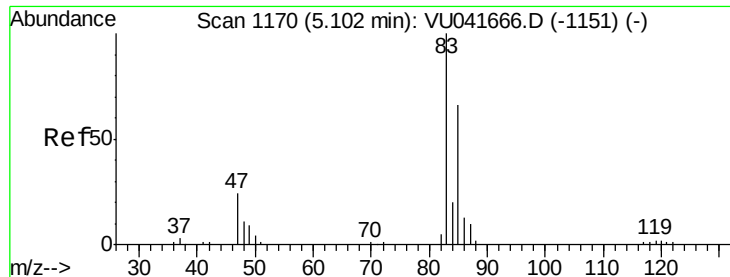
Ion 127.90 (127.60 to 128.60): V

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

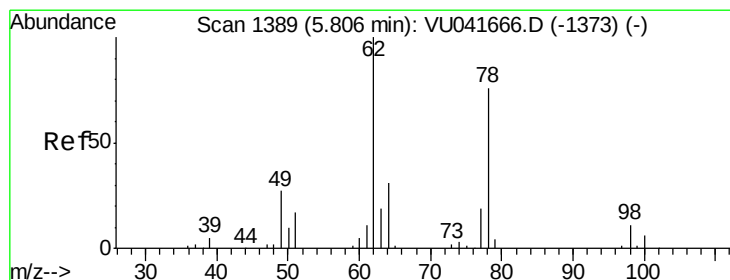
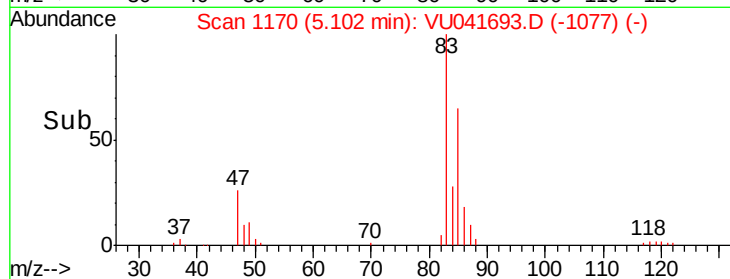
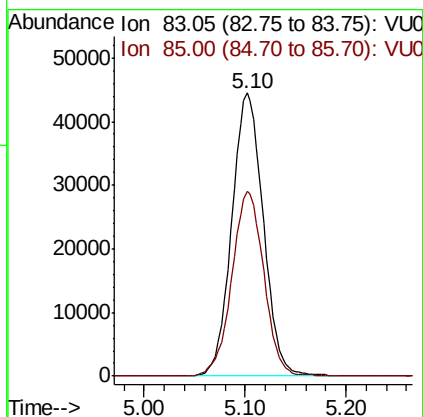
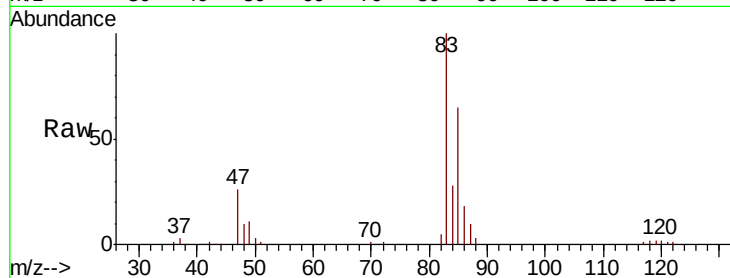




#25
Chloroform
Concen: 5.091 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. 0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

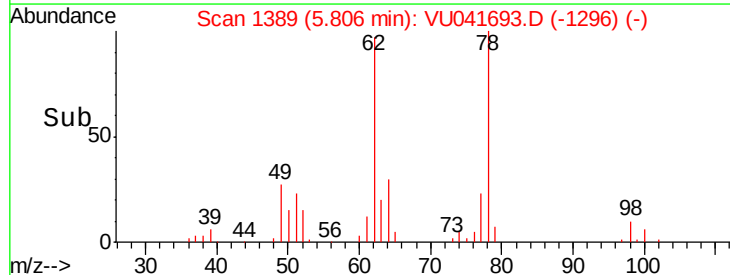
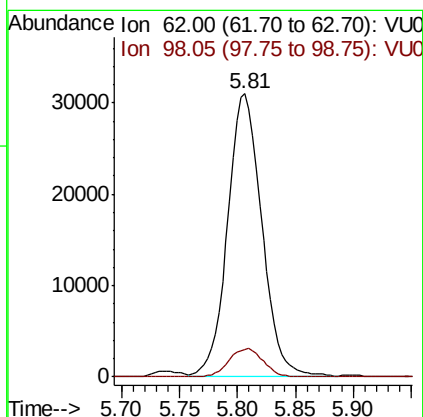
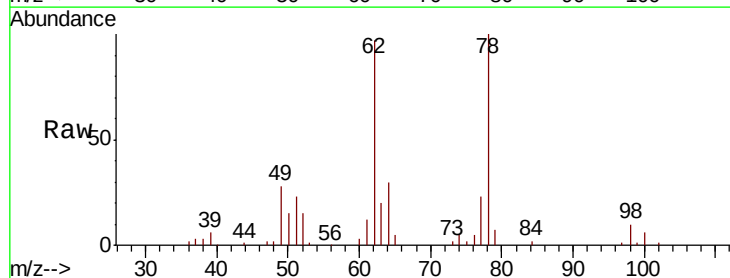
Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

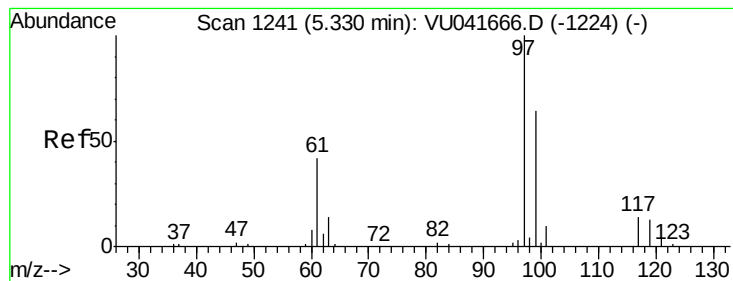
Tot Ion: 83 Resp: 96382
Ion Ratio Lower Upper
83 100
85 65.2 44.2 82.0



#27
1,2-Dichloroethane
Concen: 4.927 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

Tgt Ion: 62 Resp: 63158
Ion Ratio Lower Upper
62 100
98 9.8 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 5.170 ug/L

RT: 5.33 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

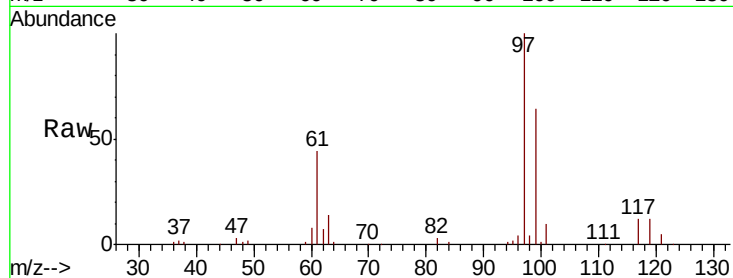
Tot Ion: 97 Resp: 81924

Ion Ratio Lower Upper

97 100

99 64.3 51.3 76.9

61 43.7 36.5 54.7

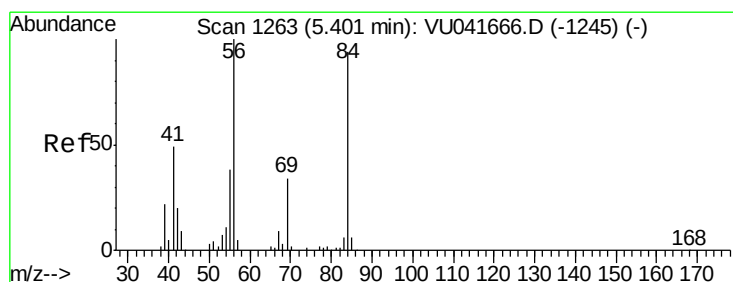
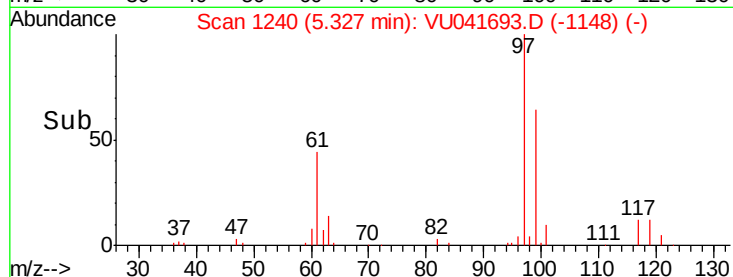
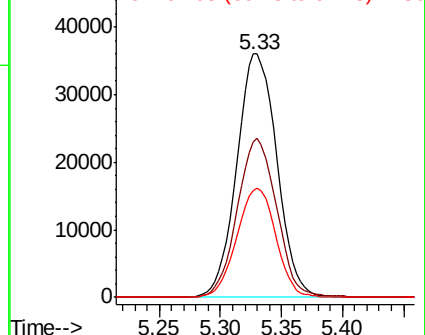


Abundance

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: 4.602 ug/L

RT: 5.40 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

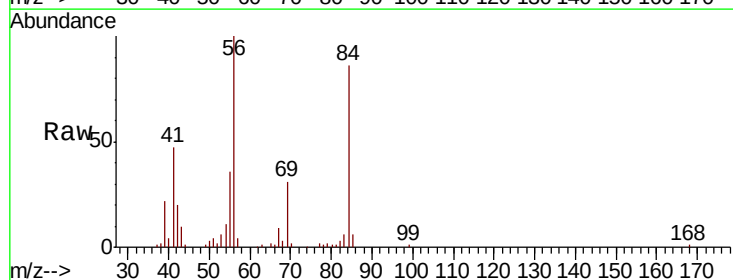
Tgt Ion: 56 Resp: 81739

Ion Ratio Lower Upper

56 100

69 31.7 23.8 35.8

84 88.2 66.2 99.4

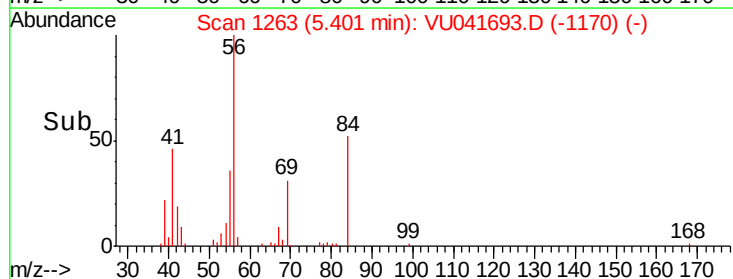
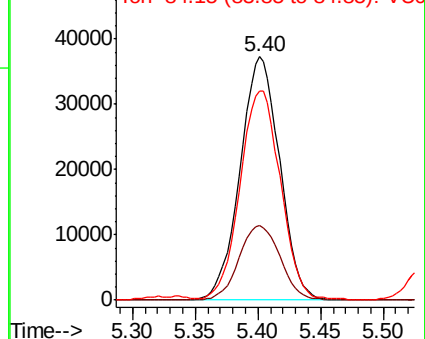


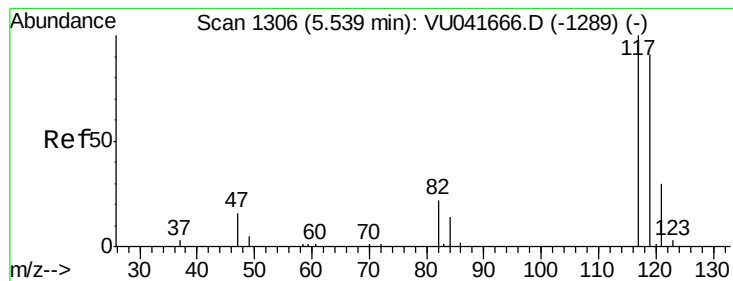
Abundance

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: 5.233 ug/L

RT: 5.54 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

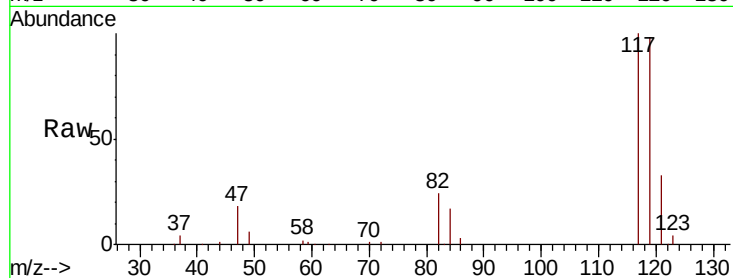
VSTD00521

Tot Ion:117 Resp: 71707

Ion Ratio Lower Upper

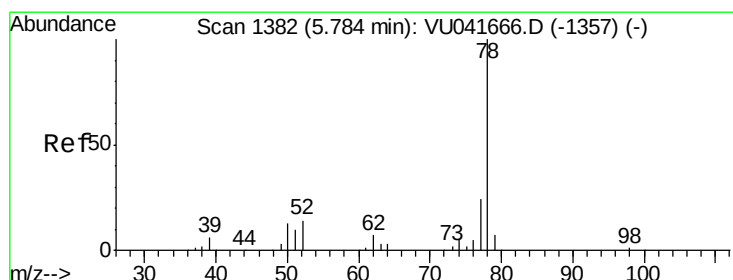
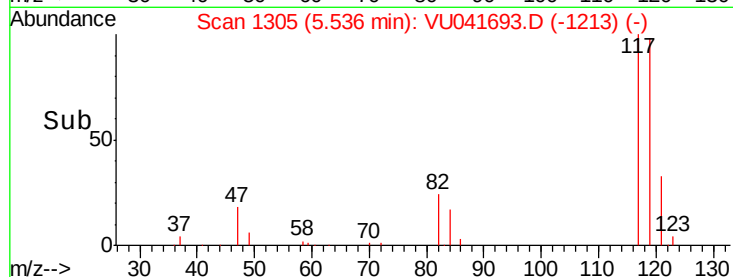
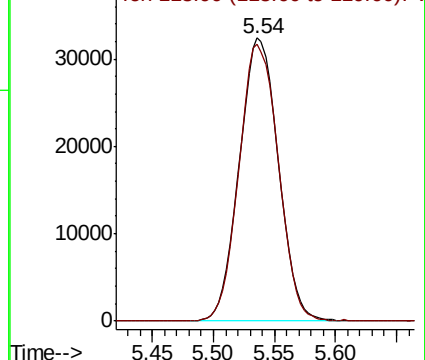
117 100

119 98.5 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.861 ug/L

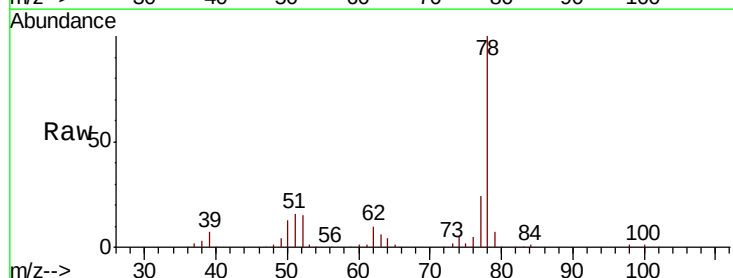
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

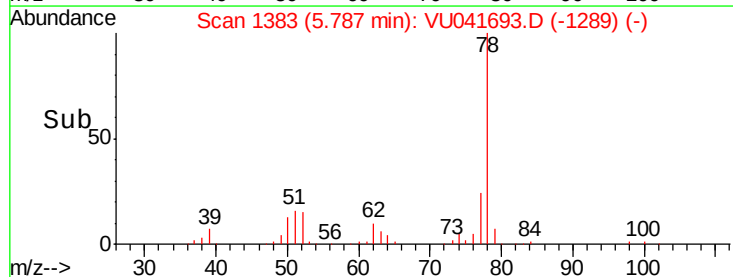
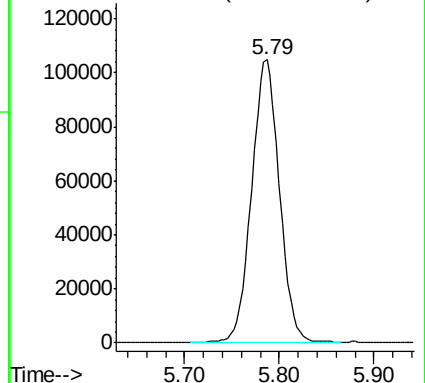
Lab File: VU041693.D

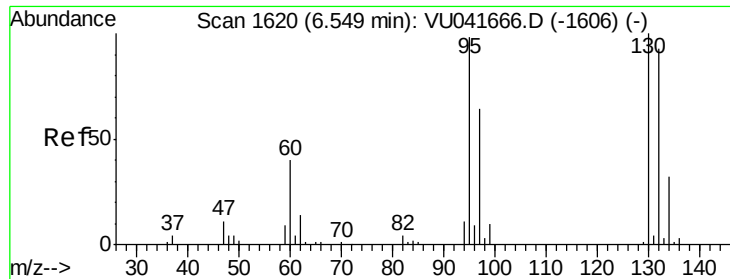
Acq: 21 Dec 2020 10:31

Tgt Ion: 78 Resp: 214555



Abundance Ion 78.10 (77.80 to 78.80): VU0

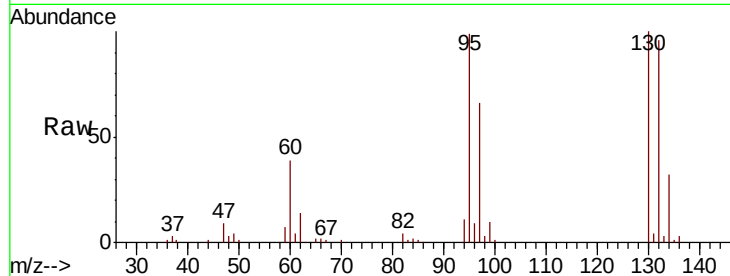




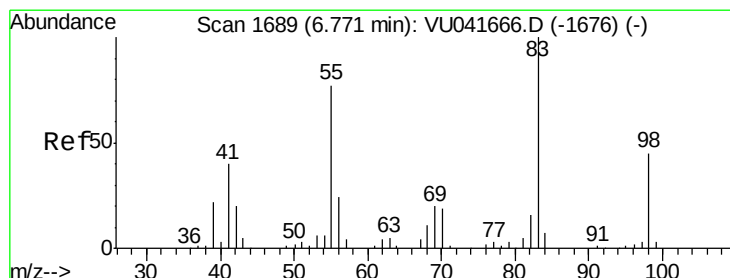
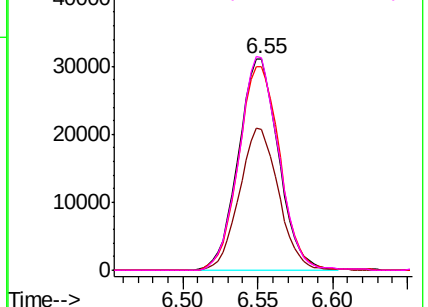
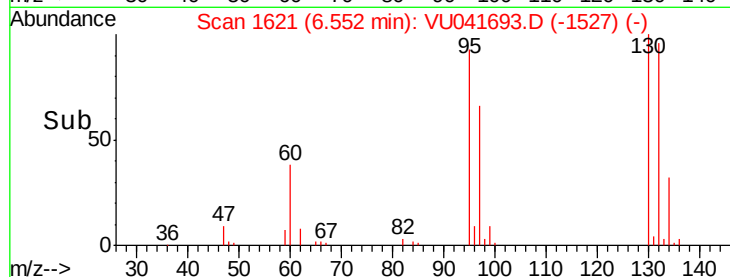
#34
 Trichloroethene
 Concen: 5.252 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion: 95 Resp: 58245
 Ion Ratio Lower Upper
 95 100
 97 66.4 43.9 81.5
 132 96.4 63.1 117.3
 130 100.7 67.4 125.2

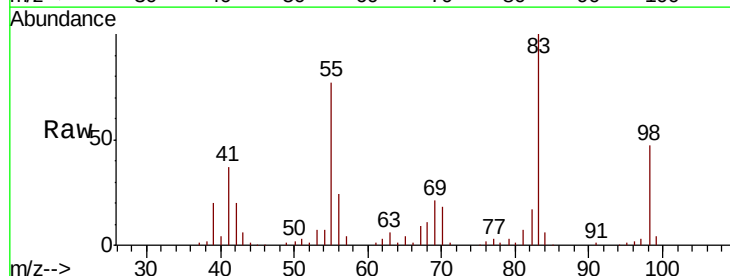


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

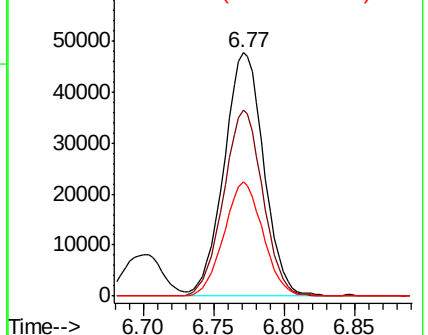
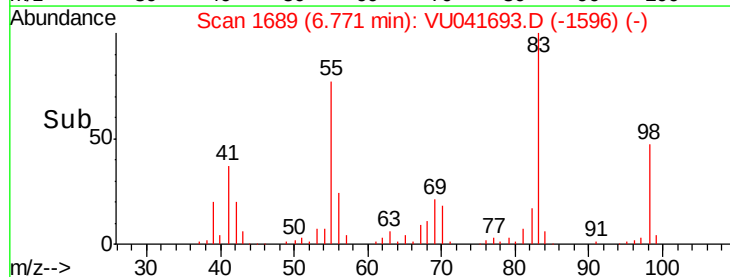


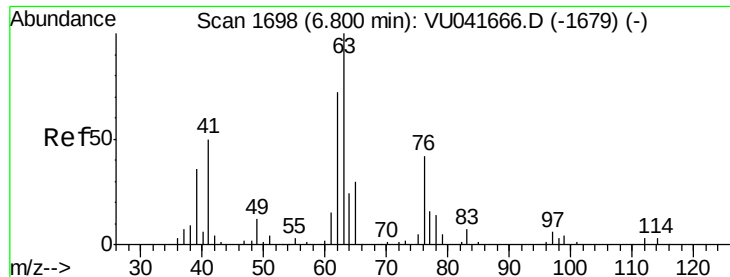
#35
 Methylcyclohexane
 Concen: 5.215 ug/L
 RT: 6.77 min Scan# 1689
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion: 83 Resp: 93498
 Ion Ratio Lower Upper
 83 100
 55 75.9 61.2 91.8
 98 46.3 36.6 54.8



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

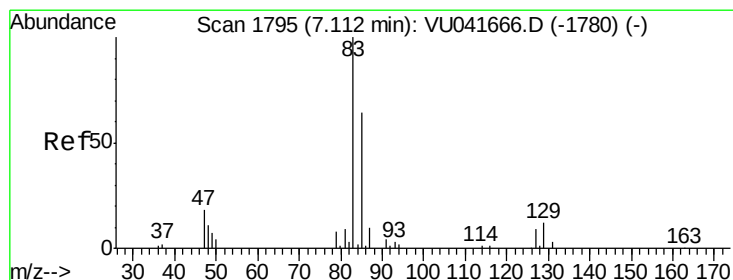
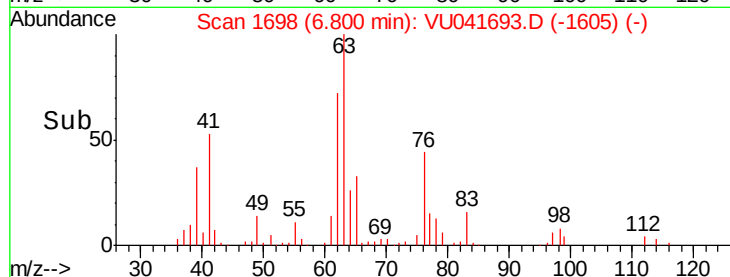
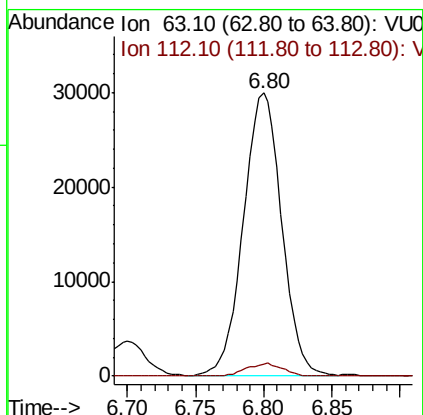
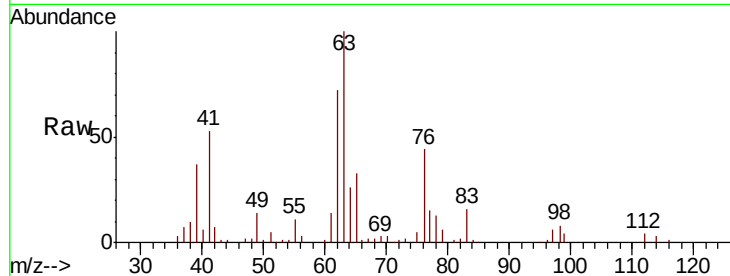




#37
 1,2-Dichloropropane
 Concen: 5.179 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

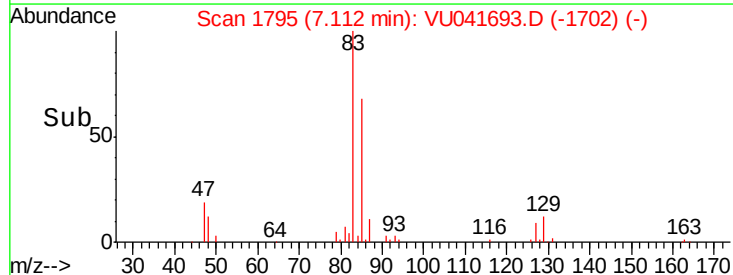
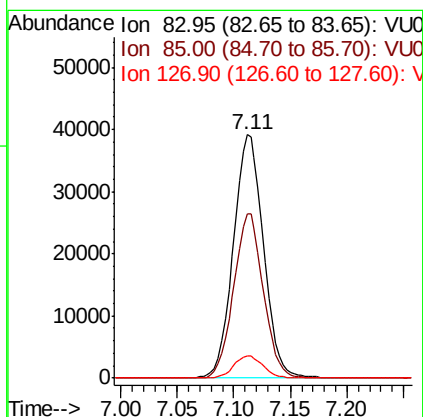
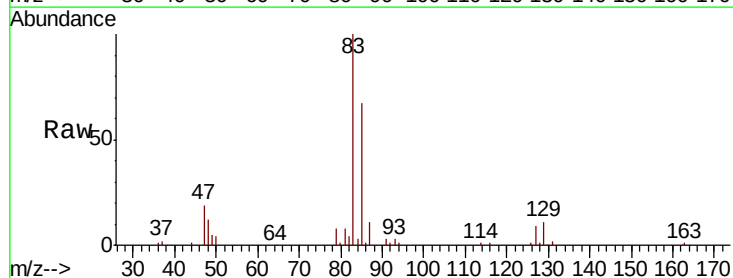
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

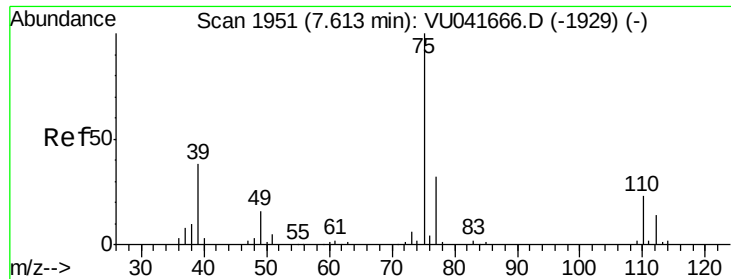
Tot Ion: 63 Resp: 58467
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.1 4.7



#38
 Bromodichloromethane
 Concen: 5.164 ug/L
 RT: 7.11 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion: 83 Resp: 72528
 Ion Ratio Lower Upper
 83 100
 85 67.4 45.5 84.5
 127 9.1 7.0 10.6

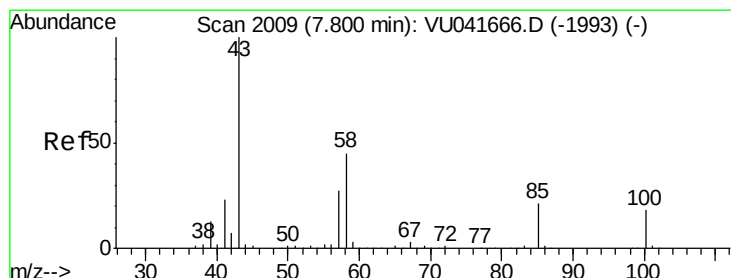
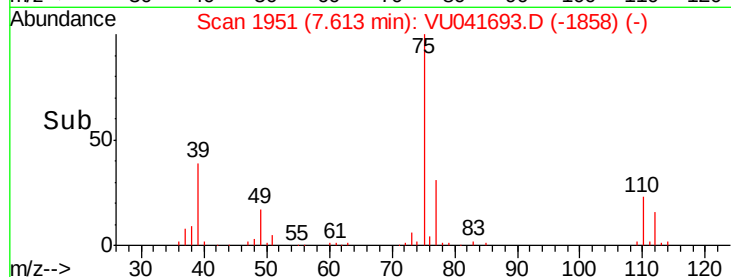
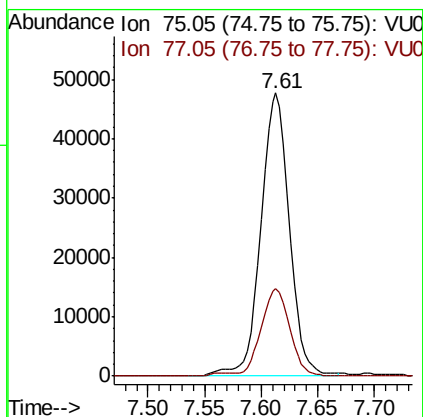
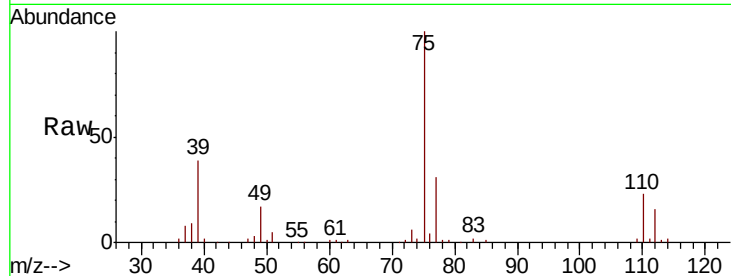




#39
 cis-1,3-Dichloropropene
 Concen: 5.001 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

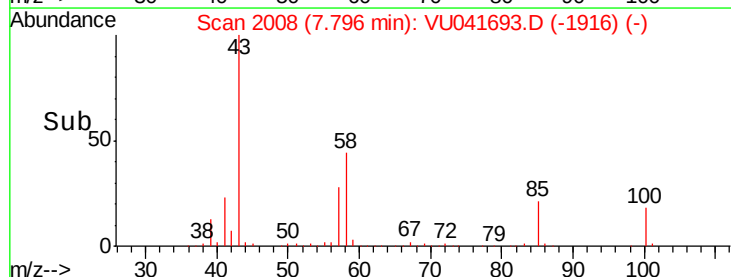
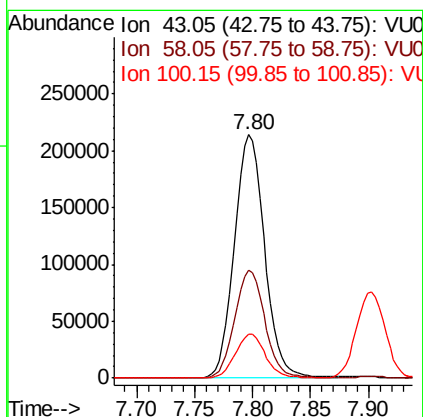
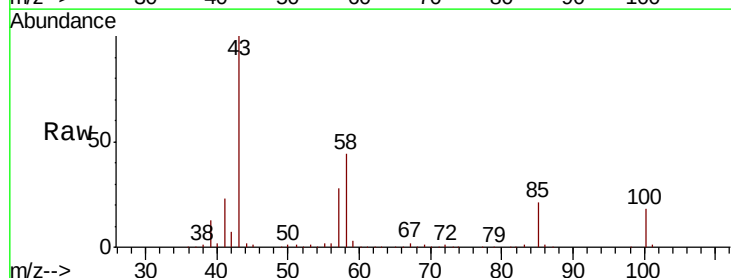
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

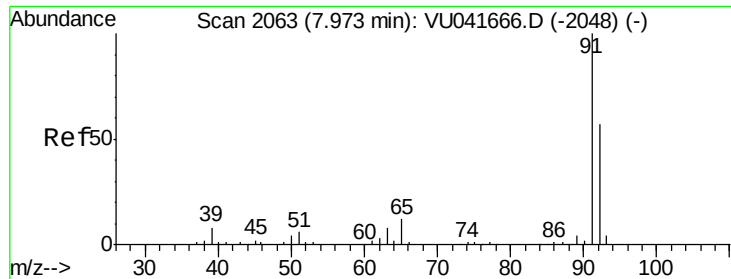
Tot Ion: 75 Resp: 83652
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 48.223 ug/L
 RT: 7.80 min Scan# 2008
 Delta R.T. -0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion: 43 Resp: 387362
 Ion Ratio Lower Upper
 43 100
 58 44.3 34.2 51.2
 100 17.9 12.3 18.5





#42

Toluene

Concen: 5.071 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

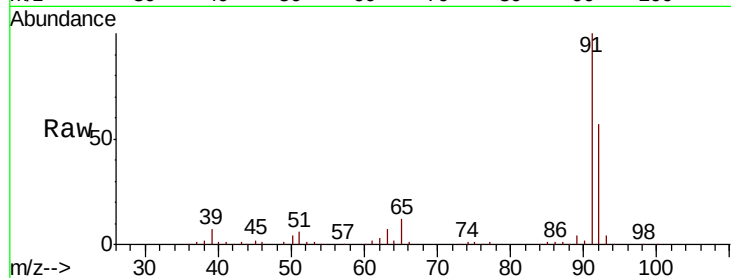
VSTD00521

Tot Ion: 91 Resp: 231069

Ion Ratio Lower Upper

91 100

92 57.1 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041666.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041666.D (-2048) (-)

7.97

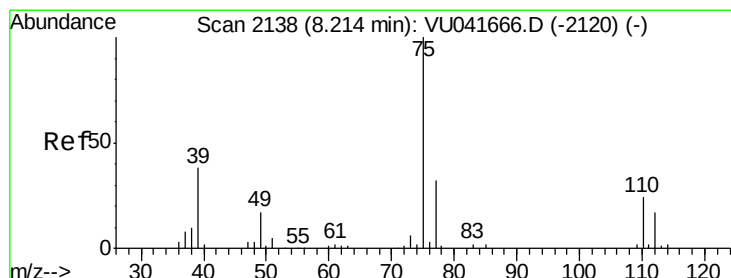
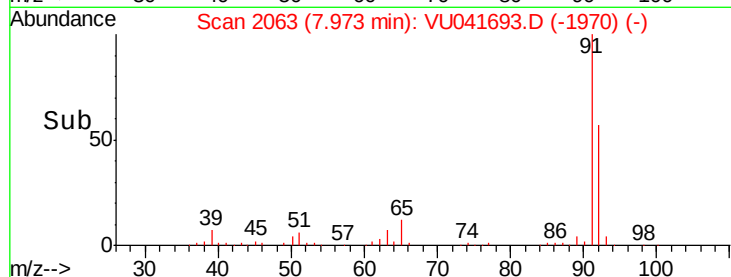
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.056 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU041693.D

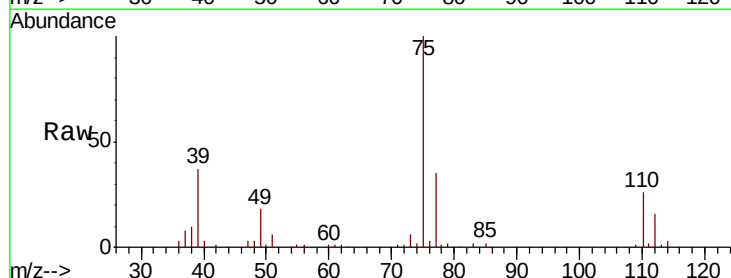
Acq: 21 Dec 2020 10:31

Tgt Ion: 75 Resp: 75625

Ion Ratio Lower Upper

75 100

77 34.6 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU041666.D (-2120) (-)

Ion 77.05 (76.75 to 77.75): VU041666.D (-2120) (-)

8.21

50000

40000

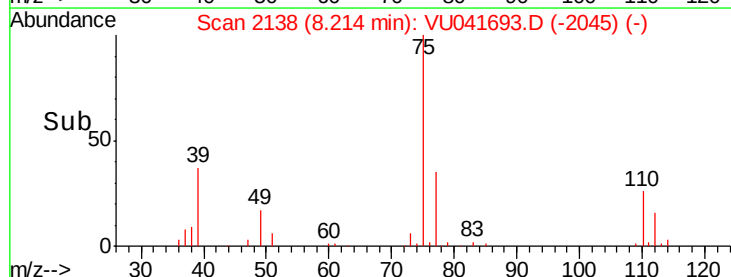
30000

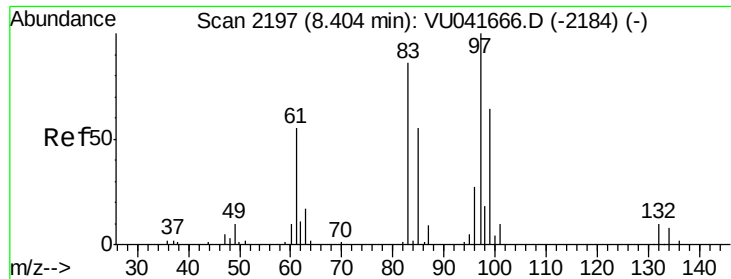
20000

10000

0

Time-->

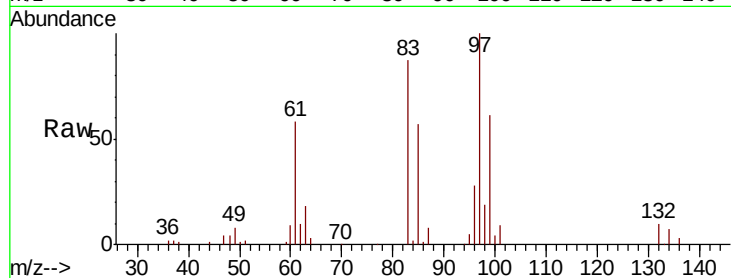




#45
 1,1,2-Trichloroethane
 Concen: 5.361 ug/L
 RT: 8.40 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion:	97	Resp:	44757
Ion	Ratio	Lower	Upper
97	100		
99	61.3	42.1	78.3
83	87.1	62.6	116.2
85	56.5	39.1	72.7



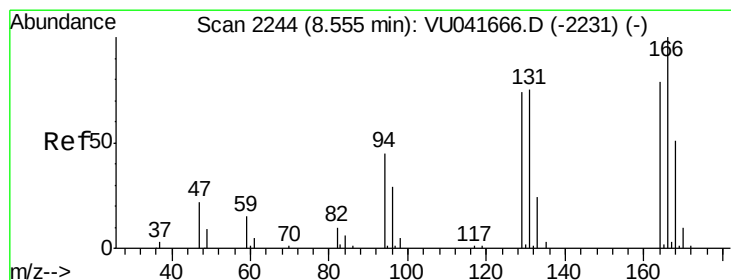
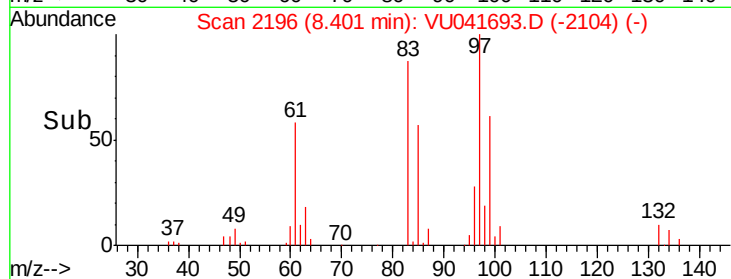
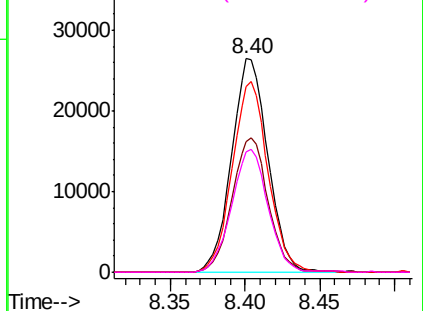
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

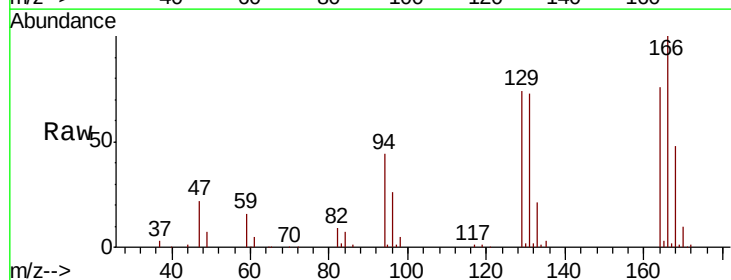
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
 Tetrachloroethene
 Concen: 5.503 ug/L
 RT: 8.56 min Scan# 2244
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion:	164	Resp:	42719
Ion	Ratio	Lower	Upper
164	100		
129	98.1	72.2	134.0
131	96.4	66.9	124.3
166	132.1	89.6	166.4



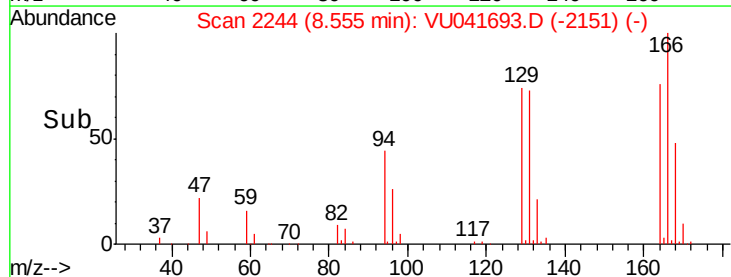
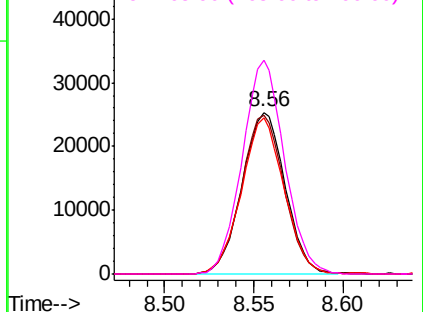
Abundance

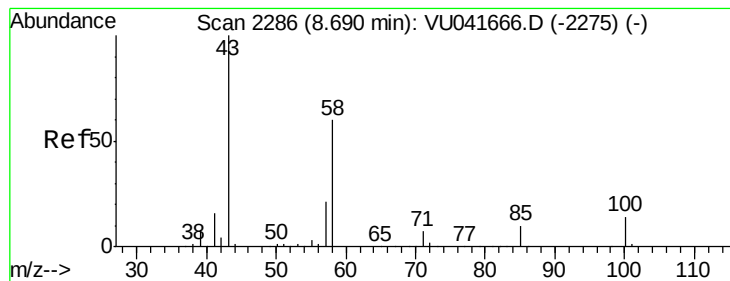
Ion 163.90 (163.60 to 164.60): V

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: 51.065 ug/L

RT: 8.69 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

Tot Ion: 43 Resp: 298523

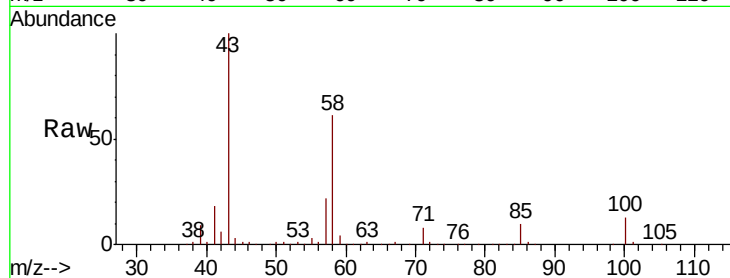
Ion Ratio Lower Upper

43 100

58 61.3 47.9 71.9

57 21.3 16.5 24.7

100 13.6 9.4 14.2

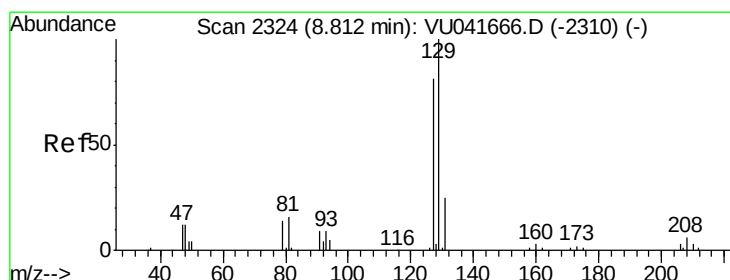
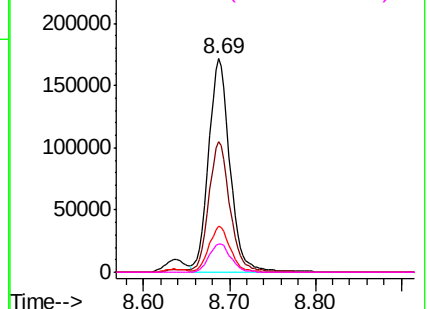
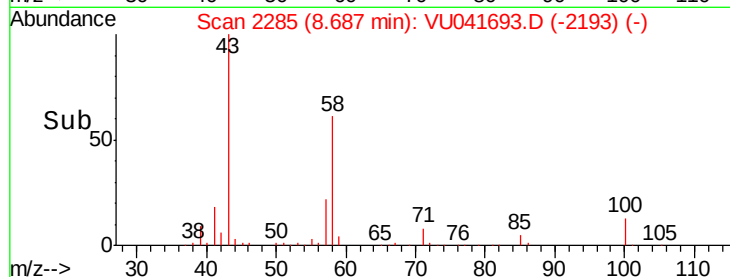


Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 5.569 ug/L

RT: 8.81 min Scan# 2324

Delta R.T. 0.00 min

Lab File: VU041693.D

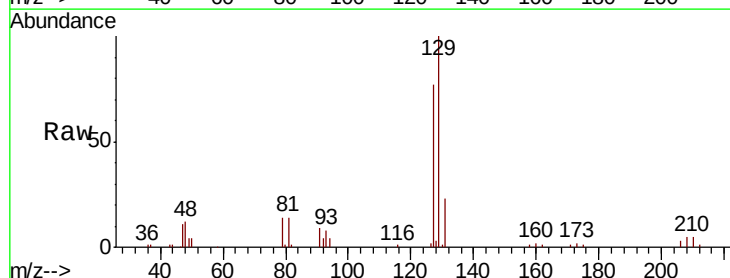
Acq: 21 Dec 2020 10:31

Tgt Ion: 129 Resp: 53401

Ion Ratio Lower Upper

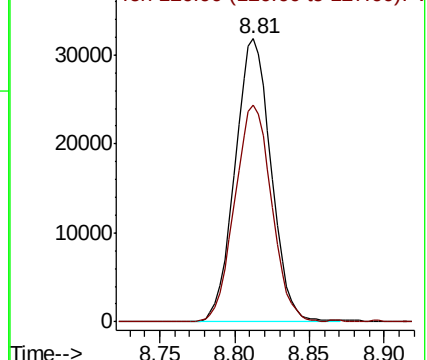
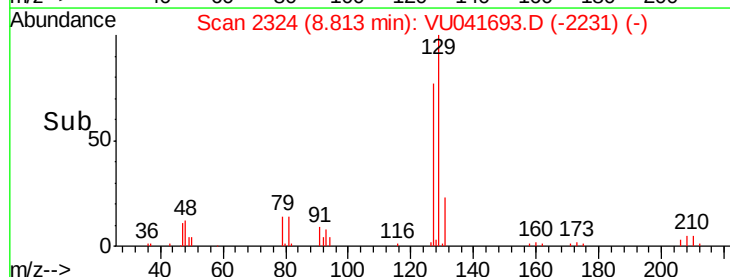
129 100

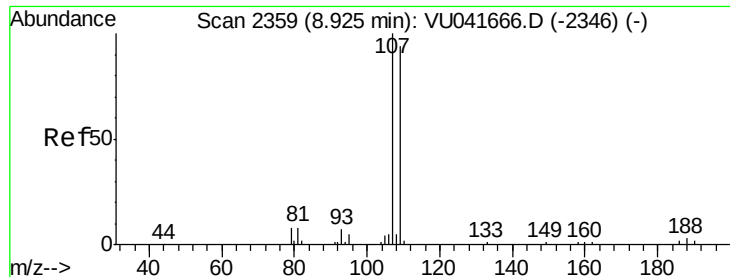
127 76.8 54.7 101.7



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

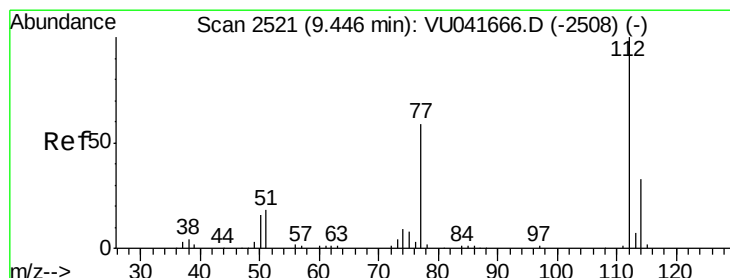
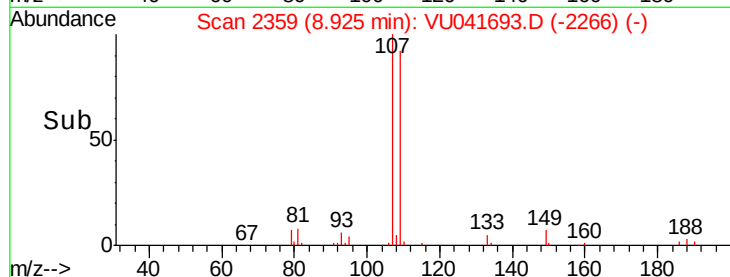
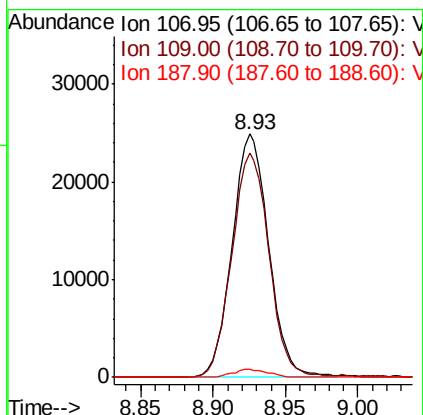
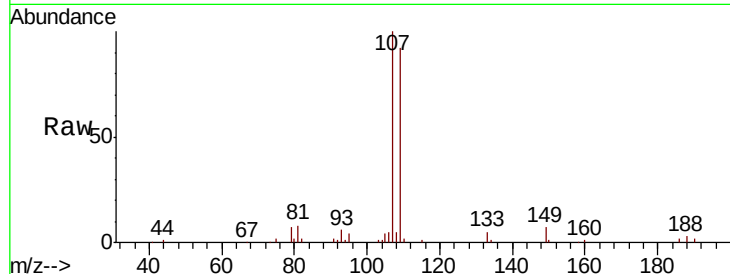




#50
 1,2-Dibromoethane
 Concen: 5.278 ug/L
 RT: 8.93 min Scan# 2359
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

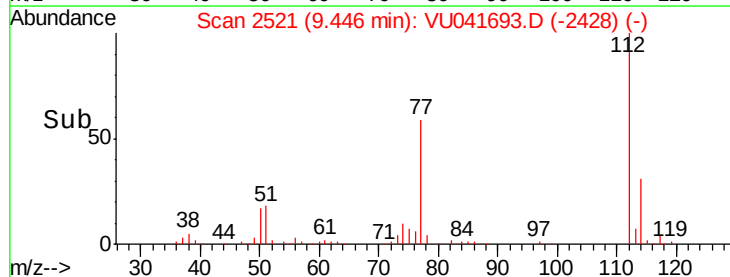
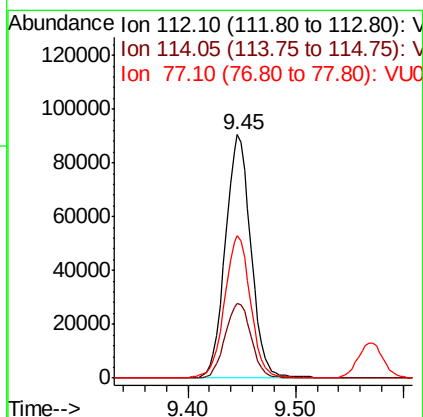
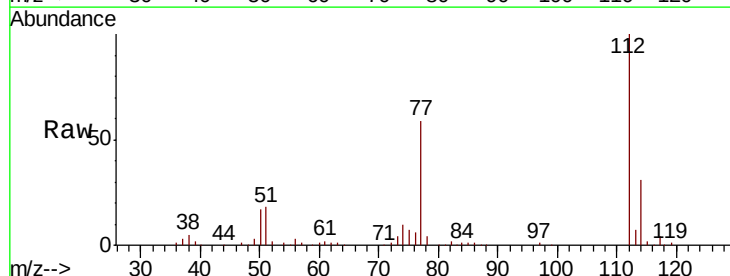
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

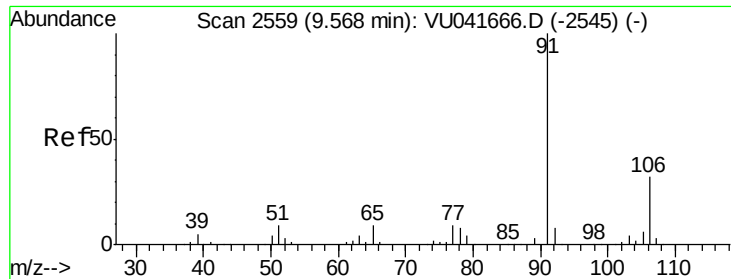
Tot Ion	Ratio	Lower	Upper
107	100		
109	91.9	65.6	121.8
188	3.1	2.6	4.0



#51
 Chlorobenzene
 Concen: 5.274 ug/L
 RT: 9.45 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.8	22.7	42.3
77	58.7	49.1	73.7





#52

Ethylbenzene

Concen: 5.088 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

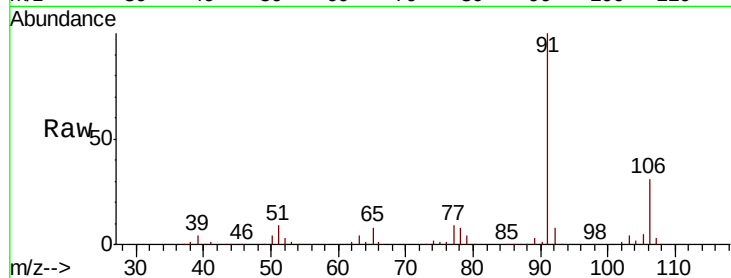
VSTD00521

Tot Ion: 91 Resp: 246871

Ion Ratio Lower Upper

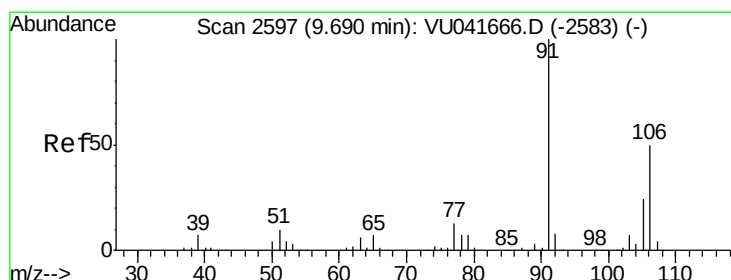
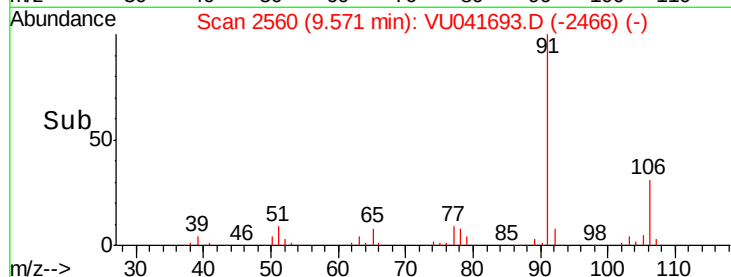
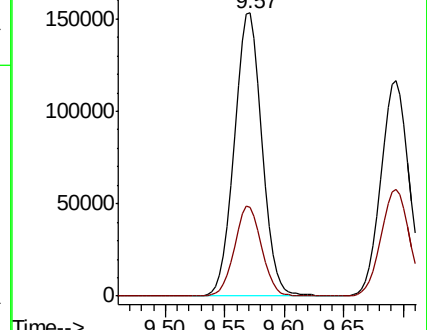
91 100

106 31.4 21.1 39.3



Abundance Ion 91.15 (90.85 to 91.85): VU041693.D (-2545) (-)

Ion 106.15 (105.85 to 106.85): VU041693.D (-2545) (-)



#53

m,p-Xylene

Concen: 5.335 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041693.D

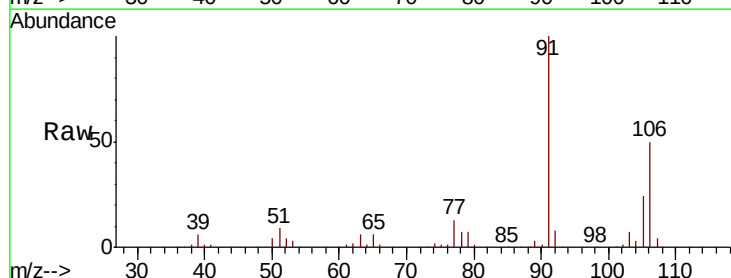
Acq: 21 Dec 2020 10:31

Tgt Ion: 106 Resp: 96546

Ion Ratio Lower Upper

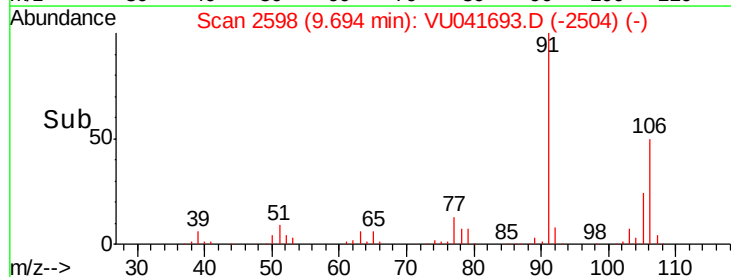
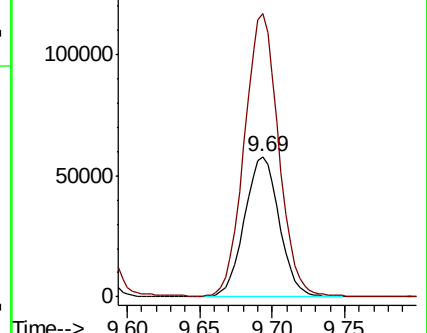
106 100

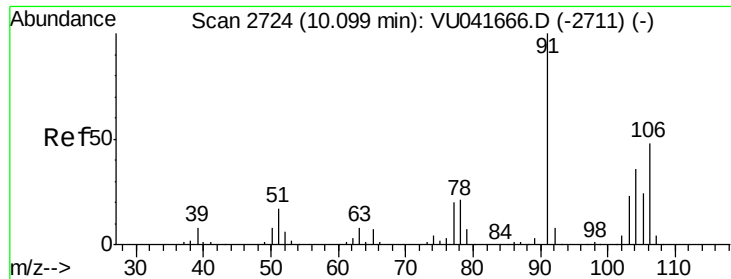
91 201.9 140.4 260.8



Abundance Ion 106.15 (105.85 to 106.85): VU041693.D (-2597) (-)

Ion 91.15 (90.85 to 91.85): VU041693.D (-2597) (-)

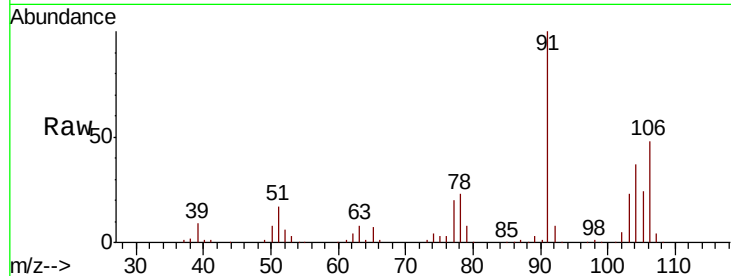




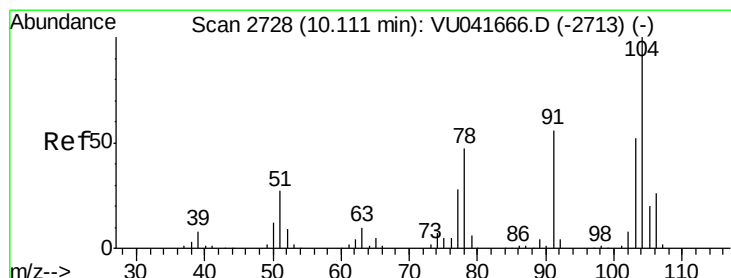
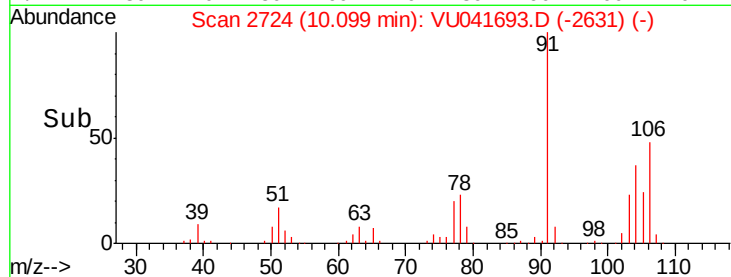
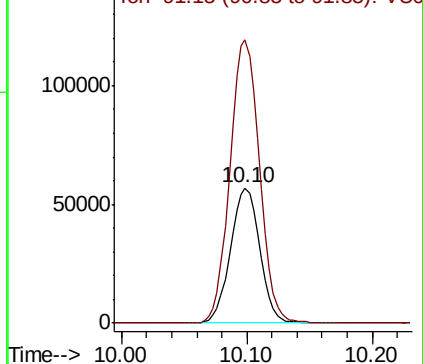
#54
o-Xylene
Concen: 5.219 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. 0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

Instrument :
MSVOA_U
ClientSampleId :
VSTD00521

Tot Ion:106 Resp: 92499
Ion Ratio Lower Upper
106 100
91 209.2 151.3 281.1

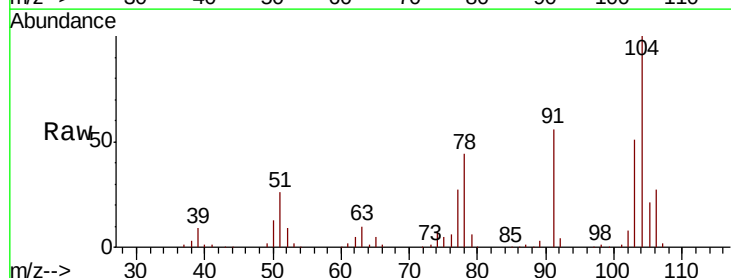


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

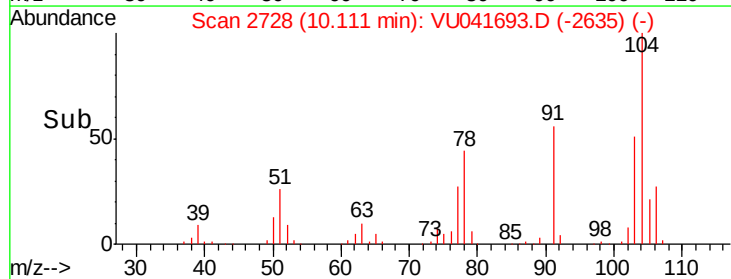
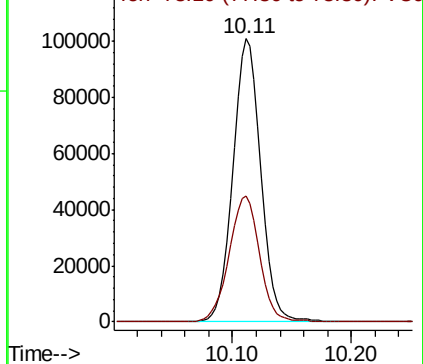


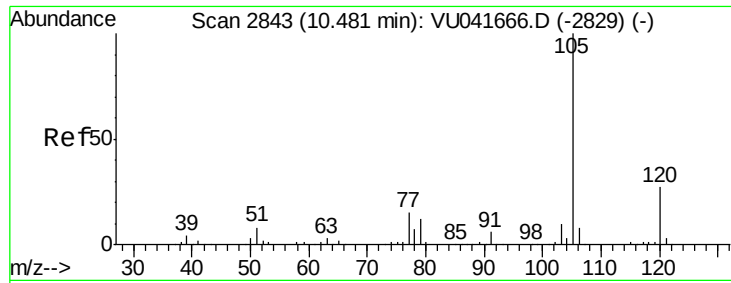
#55
Styrene
Concen: 5.329 ug/L
RT: 10.11 min Scan# 2728
Delta R.T. 0.00 min
Lab File: VU041693.D
Acq: 21 Dec 2020 10:31

Tgt Ion:104 Resp: 163144
Ion Ratio Lower Upper
104 100
78 44.4 31.1 57.9



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





#56

Isopropylbenzene

Concen: 5.243 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

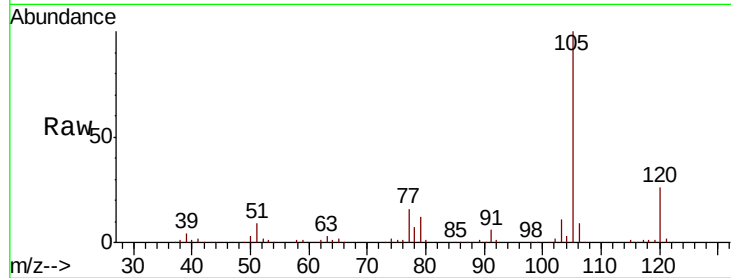
Tot Ion:105 Resp: 247359

Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7

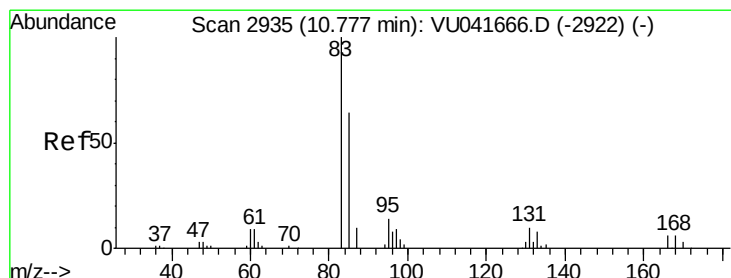
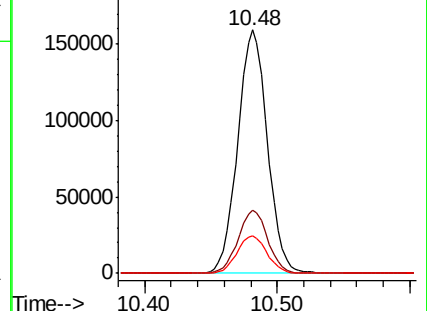
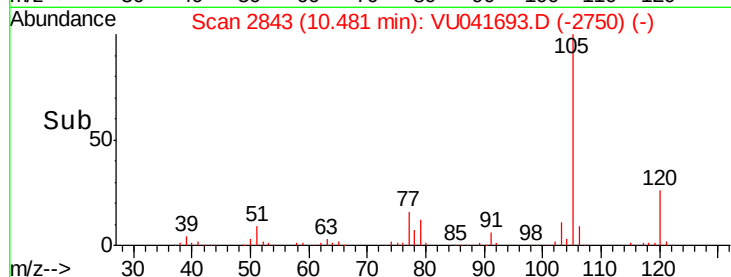
77 15.7 12.7 19.1



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: 5.005 ug/L

RT: 10.78 min Scan# 2936

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

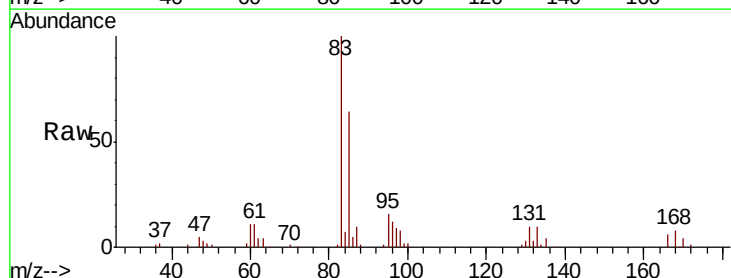
Tgt Ion: 83 Resp: 58144

Ion Ratio Lower Upper

83 100

85 64.1 46.1 85.7

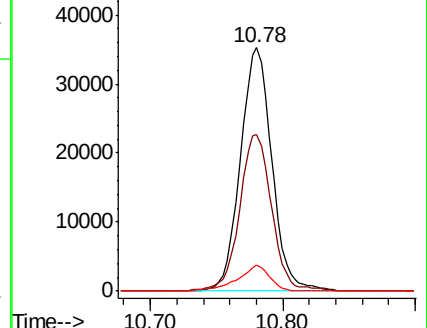
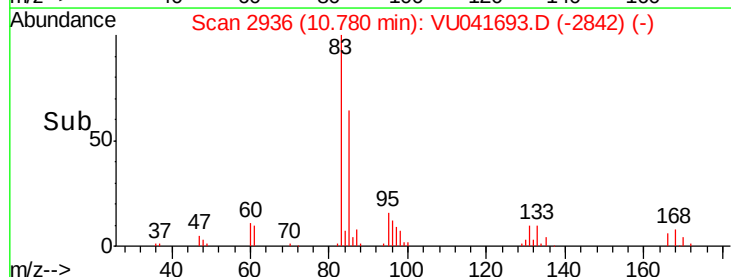
131 10.4 7.8 11.6

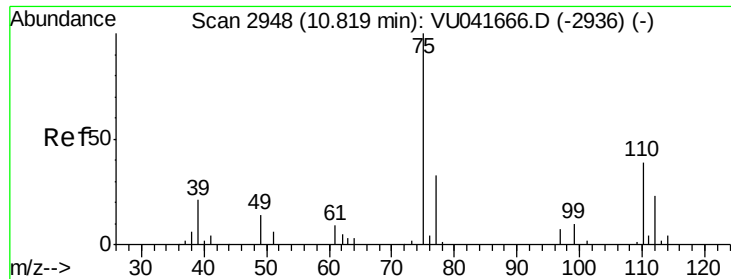


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

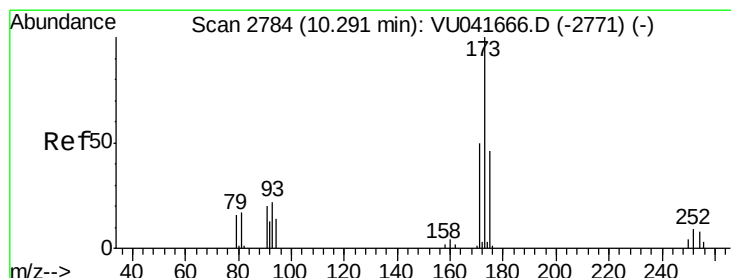
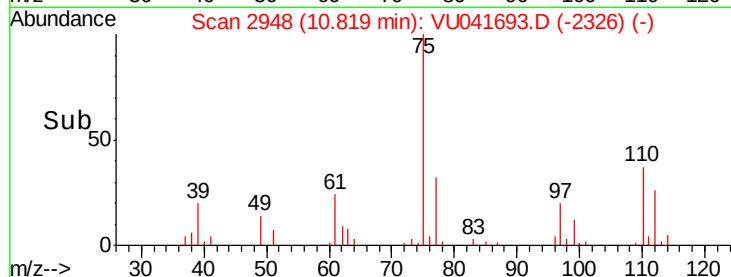
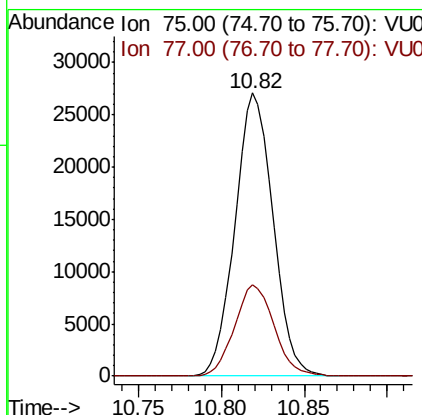
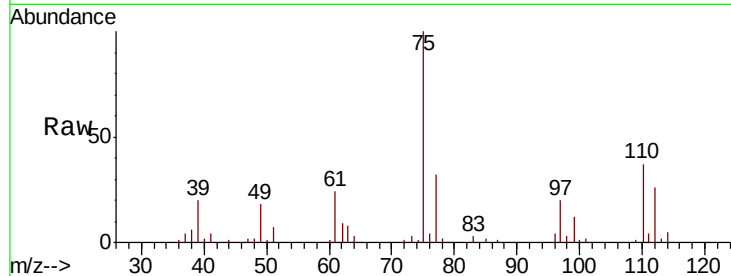




#59
 1,2,3-Trichloropropane
 Concen: 5.113 ug/L
 RT: 10.82 min Scan# 2948
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

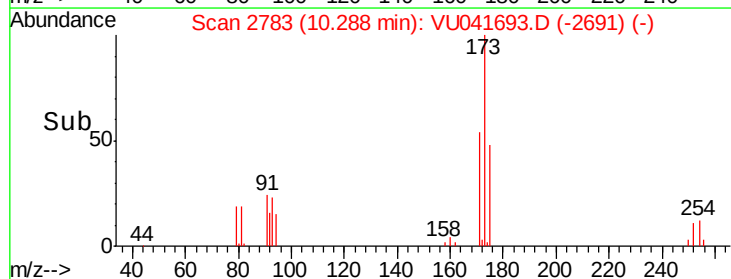
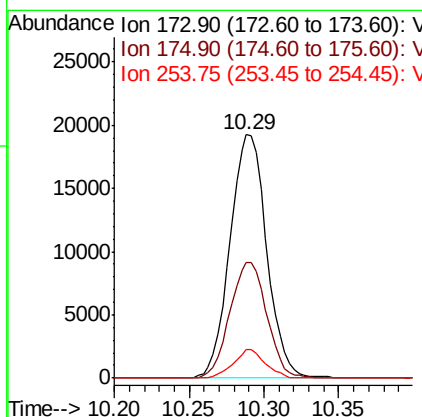
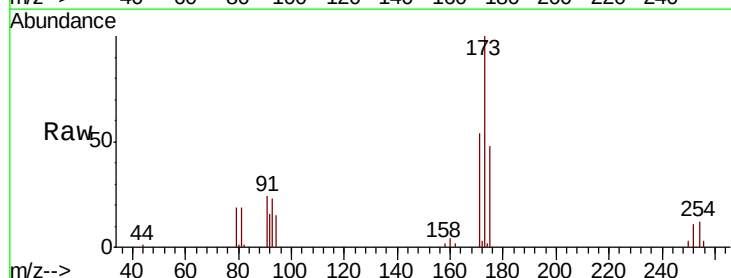
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

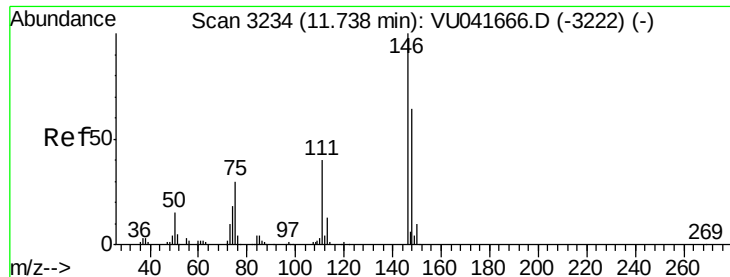
Tot Ion: 75 Resp: 43350
 Ion Ratio Lower Upper
 75 100
 77 33.4 26.2 39.2



#61
 Bromoform
 Concen: 5.656 ug/L
 RT: 10.29 min Scan# 2783
 Delta R.T. -0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion: 173 Resp: 32820
 Ion Ratio Lower Upper
 173 100
 175 47.9 37.3 55.9
 254 10.1 7.4 11.2





#62

1,3-Dichlorobenzene

Concen: 5.151 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

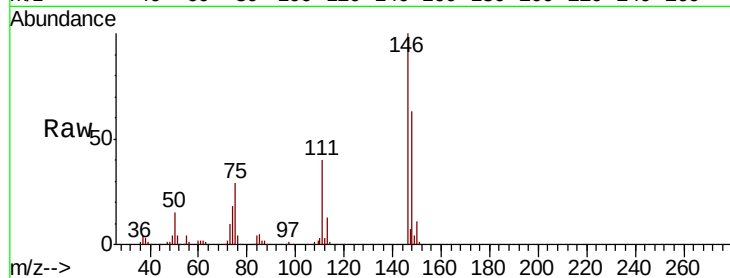
Tot Ion:146 Resp: 120921

Ion Ratio Lower Upper

146 100

111 40.5 30.0 55.8

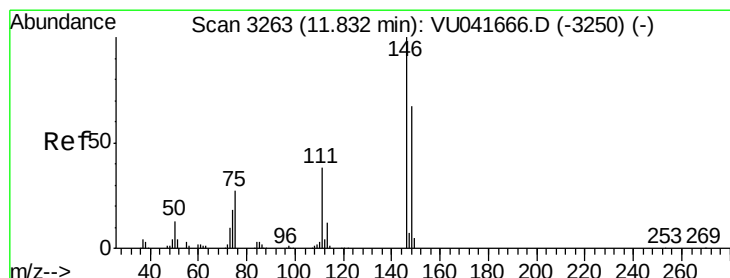
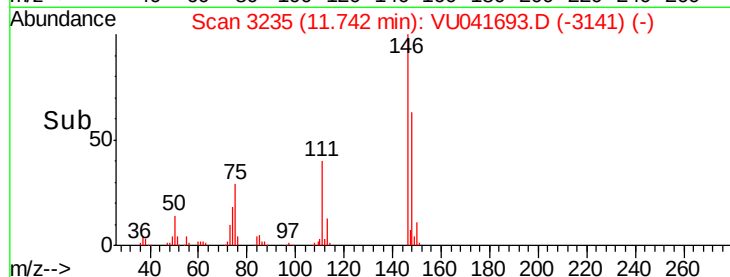
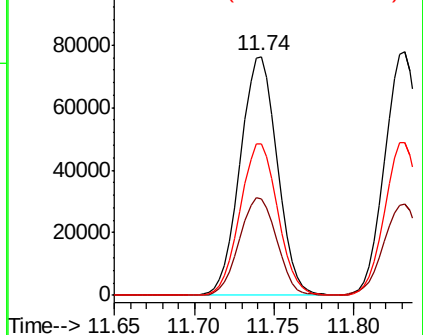
148 63.4 44.9 83.3



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



#63

1,4-Dichlorobenzene

Concen: 5.276 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

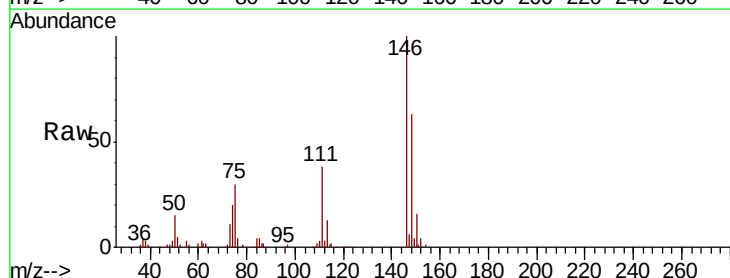
Tgt Ion:146 Resp: 124528

Ion Ratio Lower Upper

146 100

111 37.7 27.9 51.9

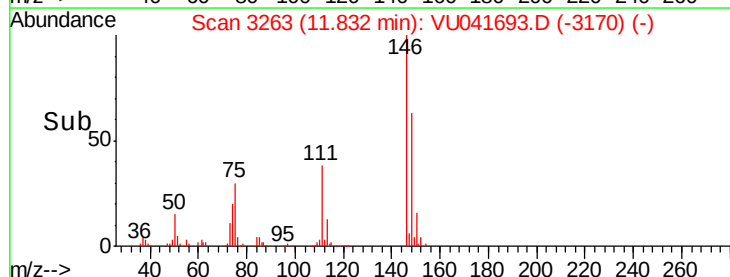
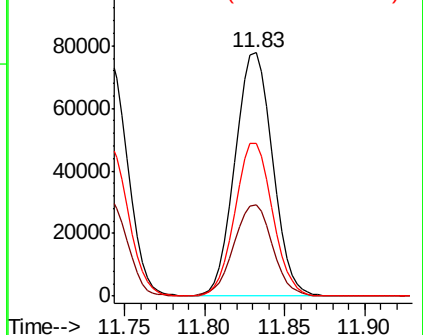
148 62.9 45.0 83.6

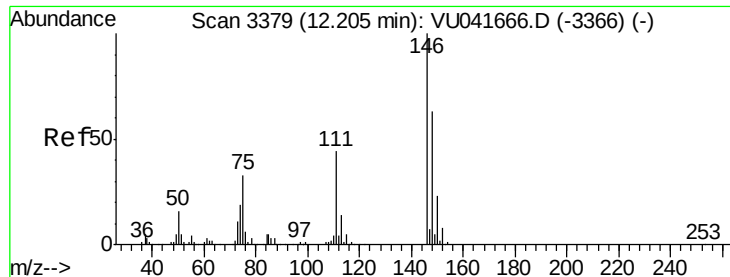


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

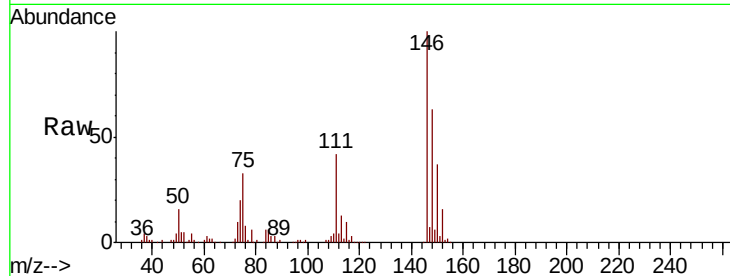




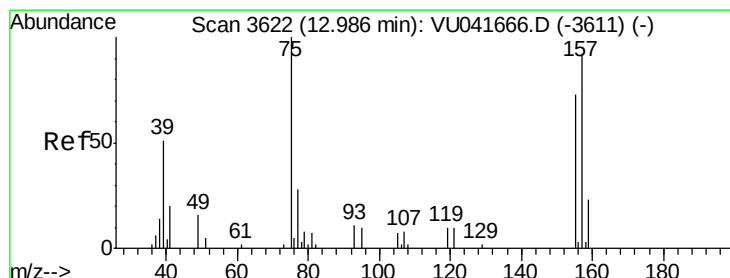
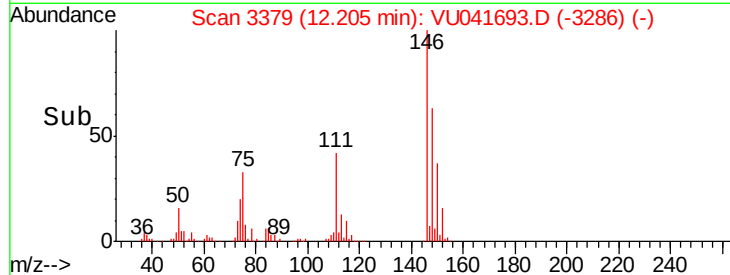
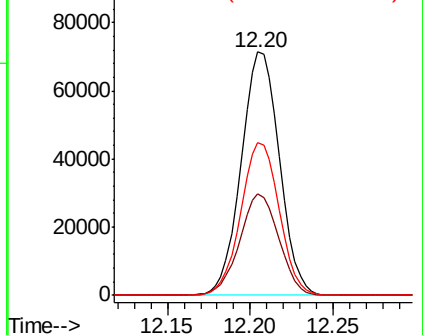
#65
 1,2-Dichlorobenzene
 Concen: 4.986 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion:146 Resp: 114628
 Ion Ratio Lower Upper
 146 100
 111 41.7 35.0 52.6
 148 62.7 51.0 76.6

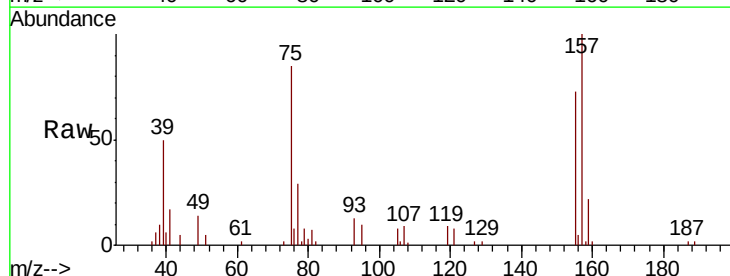


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

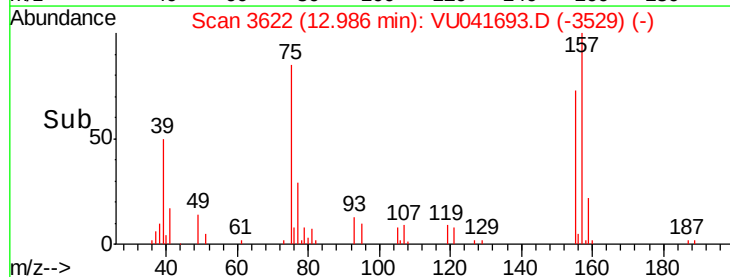
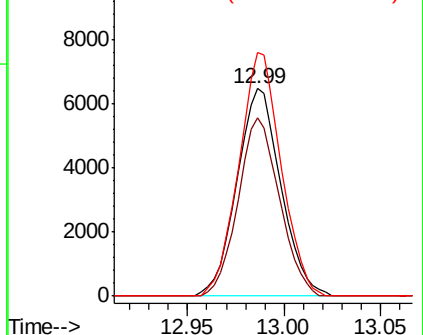


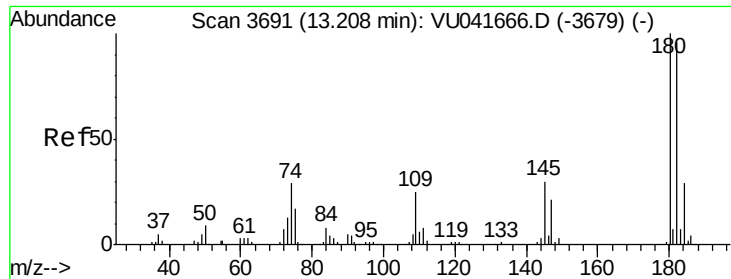
#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.746 ug/L
 RT: 12.99 min Scan# 3622
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion: 75 Resp: 10232
 Ion Ratio Lower Upper
 75 100
 155 86.1 57.4 86.0#
 157 117.5 72.4 108.6#



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

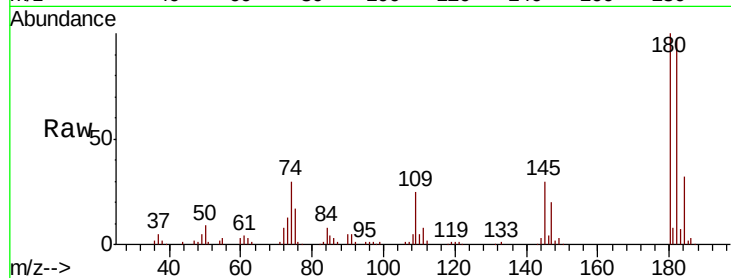




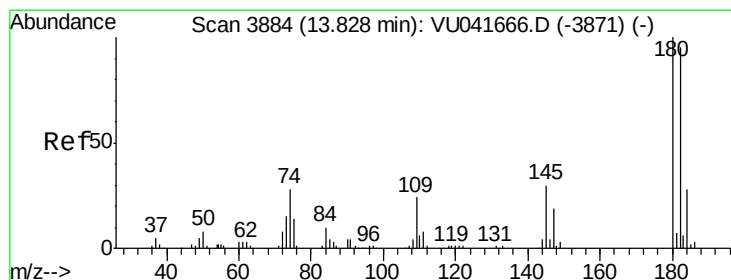
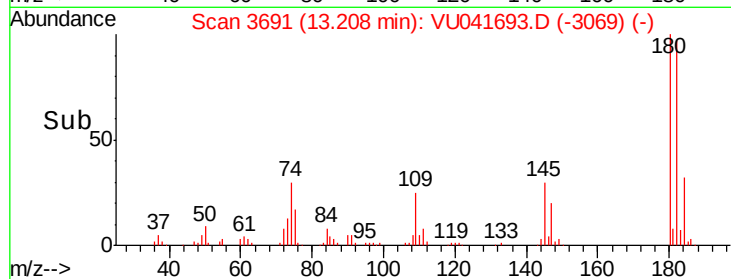
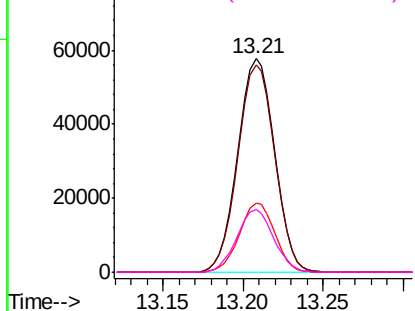
#67
 1,3,5-Trichlorobenzene
 Concen: 5.082 ug/L
 RT: 13.21 min Scan# 3691
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00521

Tot Ion:180 Resp: 90559
 Ion Ratio Lower Upper
 180 100
 182 97.2 76.3 114.5
 184 31.0 24.1 36.1
 145 29.2 24.1 36.1

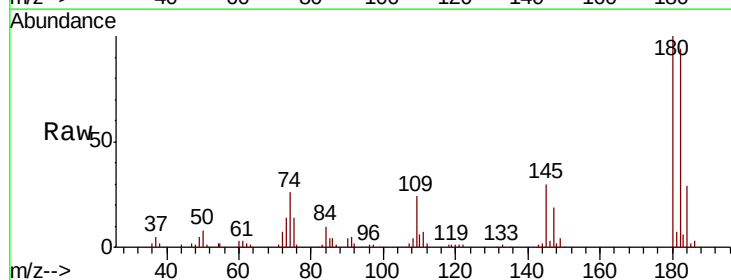


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

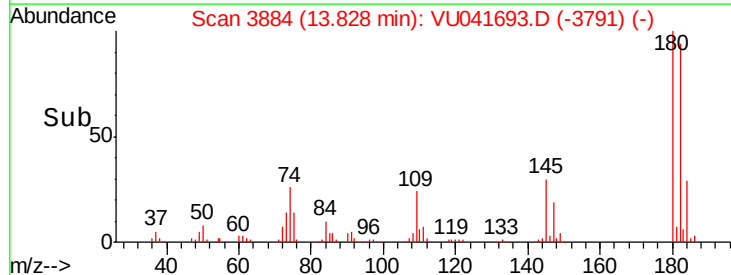
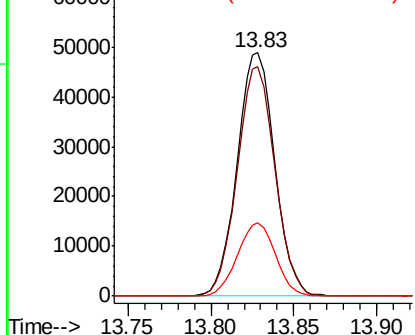


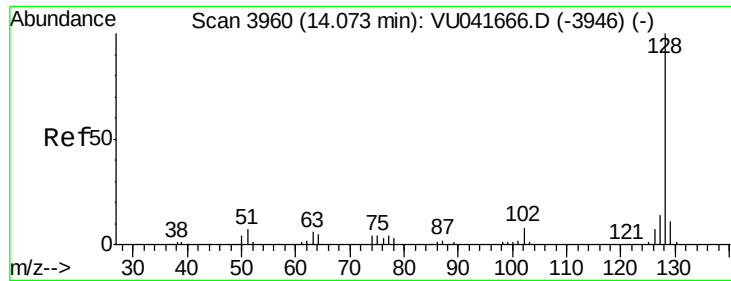
#68
 1,2,4-trichlorobenzene
 Concen: 5.154 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU041693.D
 Acq: 21 Dec 2020 10:31

Tgt Ion:180 Resp: 77070
 Ion Ratio Lower Upper
 180 100
 182 94.5 75.4 113.0
 145 30.3 24.5 36.7



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: 4.598 ug/L

RT: 14.07 min Scan# 3960

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

Instrument :

MSVOA_U

ClientSampleId :

VSTD00521

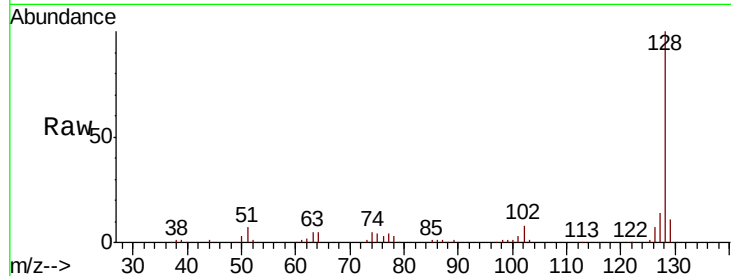
Tot Ion:128 Resp: 142346

Ion Ratio Lower Upper

128 100

129 10.5 8.7 13.1

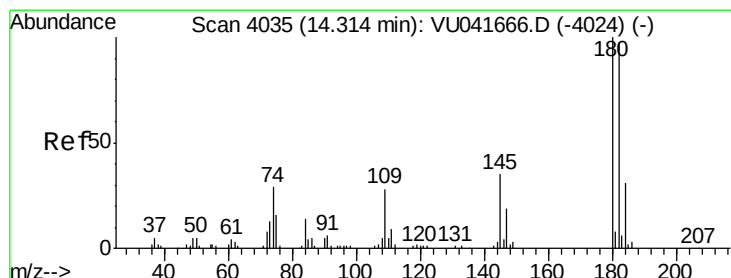
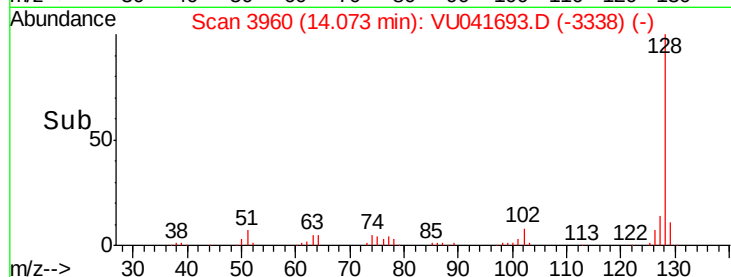
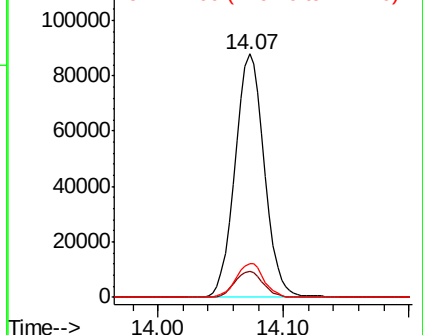
127 13.3 10.2 15.4



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: 5.075 ug/L

RT: 14.32 min Scan# 4036

Delta R.T. 0.00 min

Lab File: VU041693.D

Acq: 21 Dec 2020 10:31

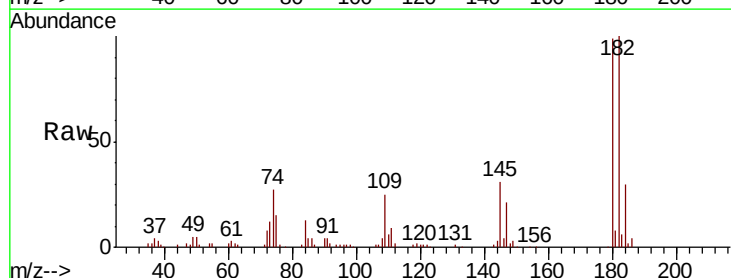
Tgt Ion:180 Resp: 72336

Ion Ratio Lower Upper

180 100

182 97.3 77.0 115.4

145 31.1 26.4 39.6



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

