

Data File : VU027791.D
Acq On : 24 Oct 2018 17:24
Operator : MD/SY
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Quant Time: Oct 25 04:44:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102418WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 25 04:31:14 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.89	114	38785	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	38272	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	19671	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	15408	4.87	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	97.40%
7) Chloroethane-d5	1.68	69	11582	4.84	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.80%
11) 1,1-Dichloroethene-d2	2.28	63	29920	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.00%
20) 2-Butanone-d5	4.20	46	49244	51.23	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.46%
24) Chloroform-d	4.65	84	28395	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
26) 1,2-Dichloroethane-d4	5.31	65	16222	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
32) Benzene-d6	5.34	84	50926	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.80%
36) 1,2-Dichloropropane-d6	6.33	67	18098	5.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.00%
41) Toluene-d8	7.57	98	49192	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	7.85	79	7035	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
46) 2-Hexanone-d5	8.31	63	41276	50.91	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.82%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	14068	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	18144	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	19313	5.135	ug/L 100
3) Chloromethane	1.33	50	21364	5.058	ug/L 99
5) Vinyl chloride	1.40	62	20275	4.987	ug/L 99
6) Bromomethane	1.63	94	10902	5.231	ug/L 98
8) Chloroethane	1.70	64	11102	5.052	ug/L 99
9) Trichlorofluoromethane	1.89	101	27886	5.189	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	14063	5.184	ug/L 100
12) 1,1-Dichloroethene	2.29	96	12808	5.066	ug/L 97
13) Acetone	2.33	43	31819	45.915	ug/L 99
14) Carbon disulfide	2.48	76	41969	4.836	ug/L 99
15) Methyl Acetate	2.63	43	8767	4.522	ug/L 92
16) Methylene chloride	2.70	84	14422	4.837	ug/L 97
17) Methyl tert-butyl Ether	3.01	73	40171	4.964	ug/L 97
18) trans-1,2-Dichloroethene	2.98	96	13819	5.101	ug/L 97
19) 1,1-Dichloroethane	3.45	63	30927	5.163	ug/L 95
21) 2-Butanone	4.29	43	56208	49.433	ug/L 99
22) cis-1,2-Dichloroethene	4.23	96	16031	4.982	ug/L 94

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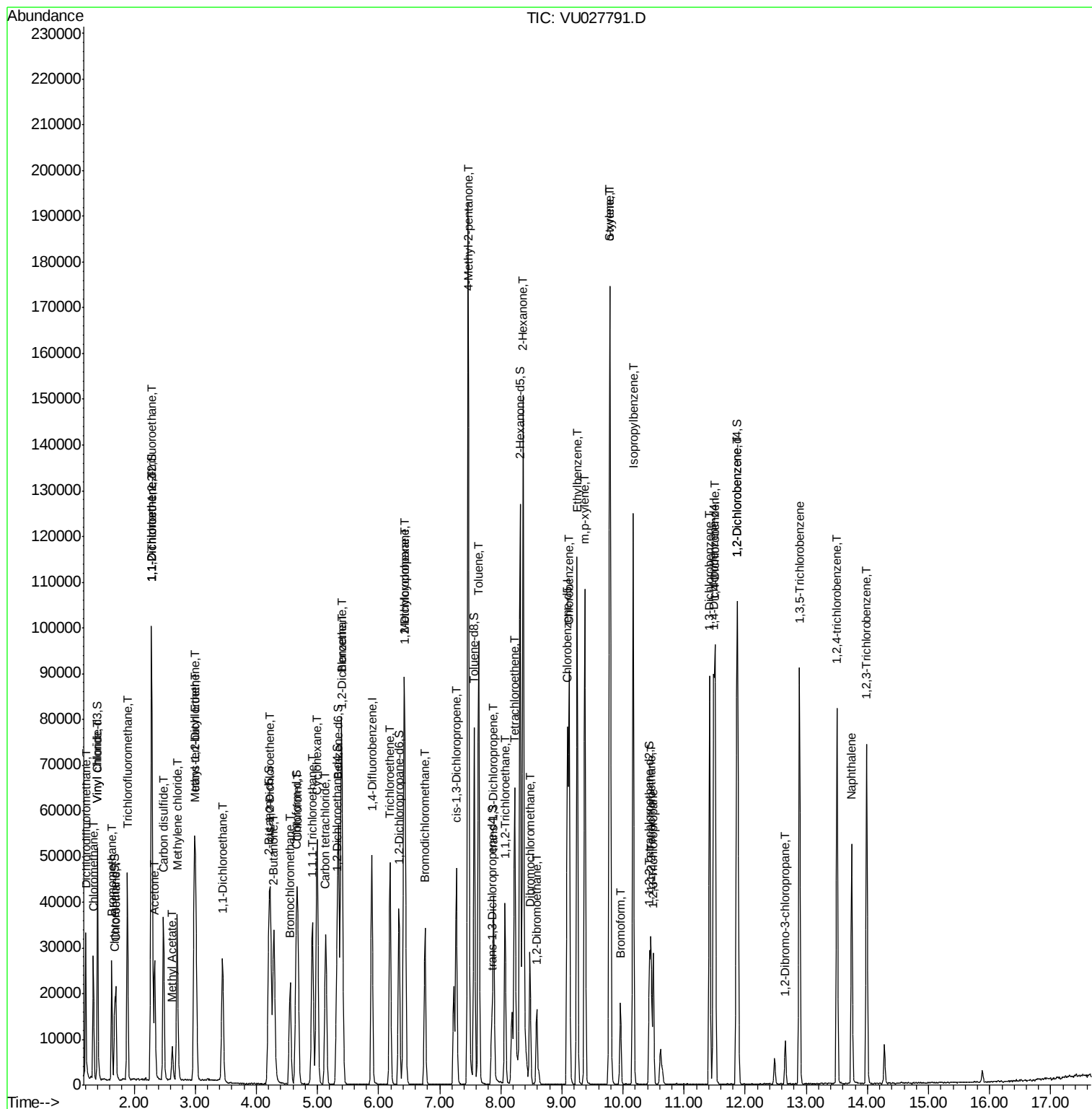
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	6539	5.012	ug/L	92
25) Chloroform	4.68	83	30854	5.115	ug/L	99
27) 1,2-Dichloroethane	5.41	62	23246	5.217	ug/L	99
29) 1,1,1-Trichloroethane	4.92	97	26996	4.904	ug/L	97
30) Cyclohexane	4.99	56	30050	4.874	ug/L	99
31) Carbon tetrachloride	5.13	117	23073	4.885	ug/L	96
33) Benzene	5.39	78	63984	5.031	ug/L	100
34) Trichloroethene	6.19	95	16778	5.092	ug/L	94
35) Methylcyclohexane	6.41	83	27090	4.920	ug/L	97
37) 1,2-Dichloropropane	6.44	63	18470	4.946	ug/L #	97
38) Bromodichloromethane	6.76	83	22377	5.019	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	26295	4.916	ug/L	100
40) 4-Methyl-2-pentanone	7.47	43	138784	49.713	ug/L	99
42) Toluene	7.64	91	67738	4.948	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	22589	5.015	ug/L	93
45) 1,1,2-Trichloroethane	8.07	97	11552	5.126	ug/L	94
47) Tetrachloroethene	8.23	164	12768	4.770	ug/L	98
48) 2-Hexanone	8.37	43	100342	50.585	ug/L	99
49) Dibromochloromethane	8.48	129	13825	4.814	ug/L	98
50) 1,2-Dibromoethane	8.59	107	10916	4.983	ug/L	96
51) Chlorobenzene	9.12	112	41924	4.974	ug/L	96
52) Ethylbenzene	9.25	91	77569	4.884	ug/L	99
53) m,p-xylene	9.38	106	28159	5.006	ug/L	94
54) o-xylene	9.78	106	27391	4.984	ug/L	100
55) Styrene	9.79	104	46099	4.952	ug/L	95
56) Isopropylbenzene	10.17	105	76140	5.003	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.46	83	15096	5.092	ug/L #	96
59) 1,2,3-Trichloropropane	10.49	75	11930	5.074	ug/L	96
61) Bromoform	9.96	173	7701	4.654	ug/L	99
62) 1,3-Dichlorobenzene	11.42	146	34025	4.918	ug/L	100
63) 1,4-Dichlorobenzene	11.51	146	33489	4.794	ug/L	95
65) 1,2-Dichlorobenzene	11.88	146	32086	4.932	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.66	75	2618	5.053	ug/L #	80
67) 1,3,5-Trichlorobenzene	12.89	180	27408	4.939	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	24265	5.034	ug/L	96
69) Naphthalene	13.74	128	39866	5.092	ug/L	98
70) 1,2,3-Trichlorobenzene	13.99	180	22585	5.085	ug/L	99

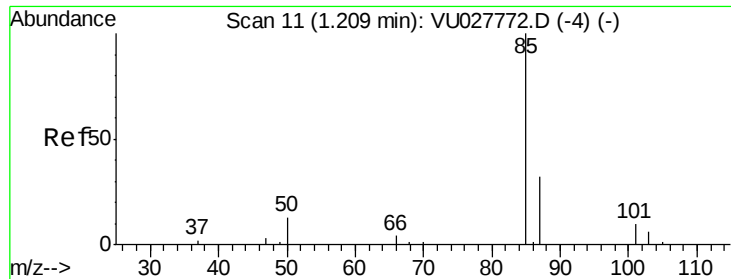
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.135 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

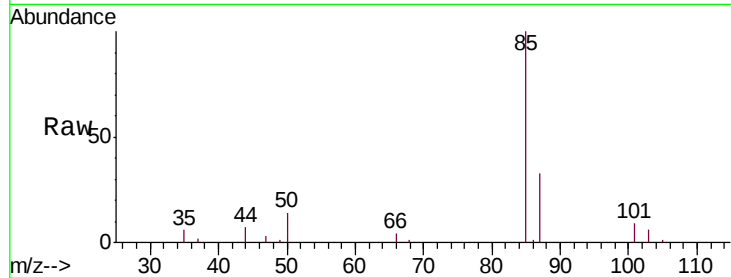
VSTD00502

Tgt Ion: 85 Resp: 19313

Ion Ratio Lower Upper

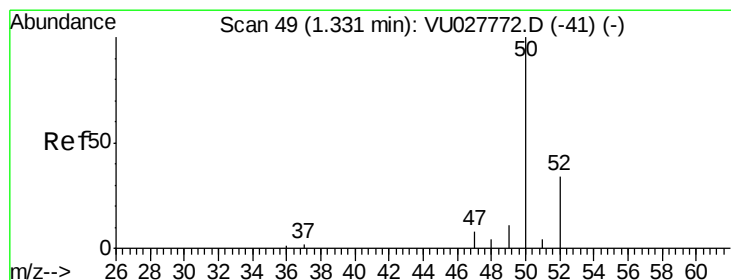
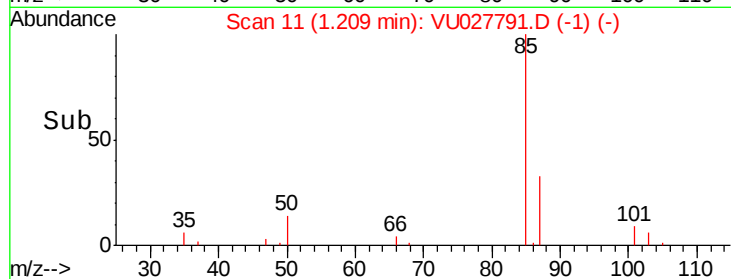
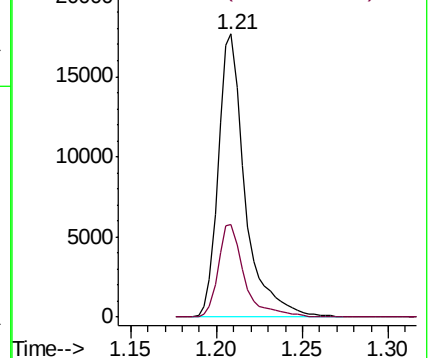
85 100

87 31.9 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 5.058 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027791.D

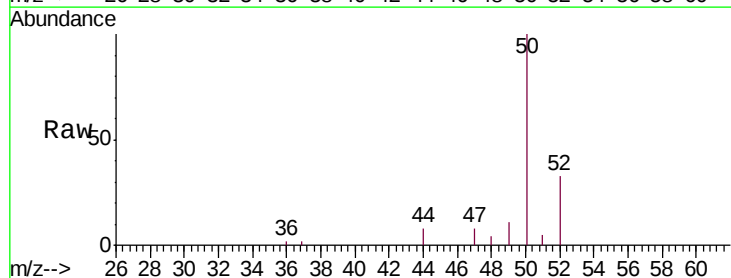
Acq: 24 Oct 2018 17:24

Tgt Ion: 50 Resp: 21364

Ion Ratio Lower Upper

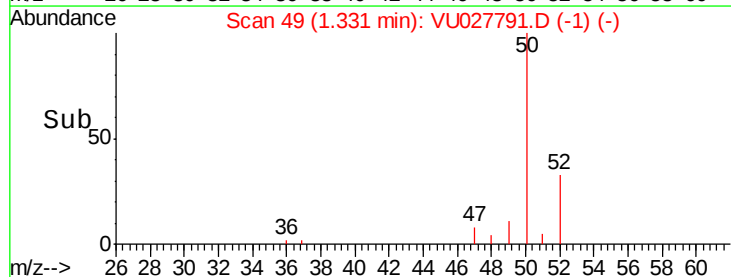
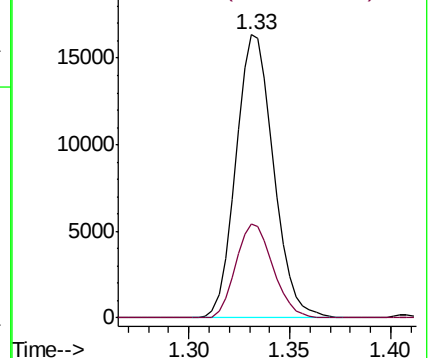
50 100

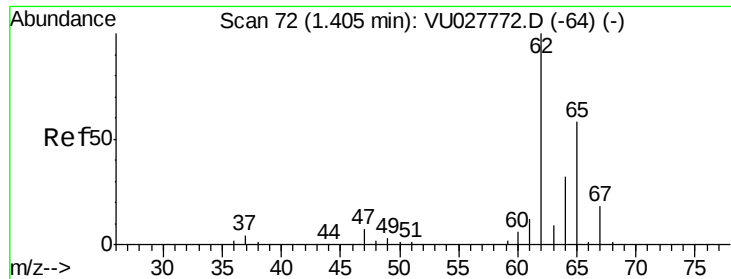
52 33.4 23.7 43.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.987 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

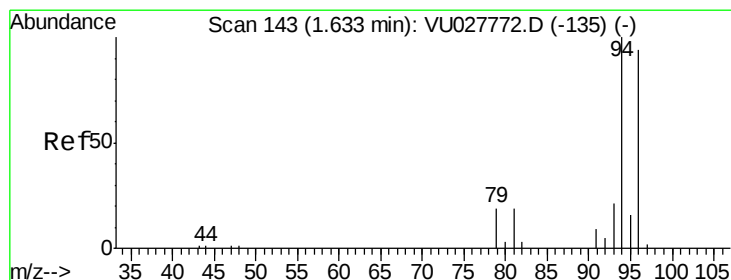
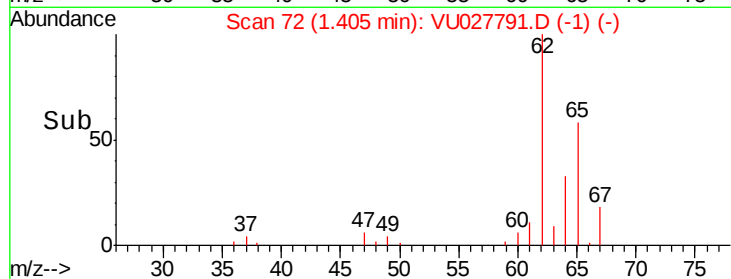
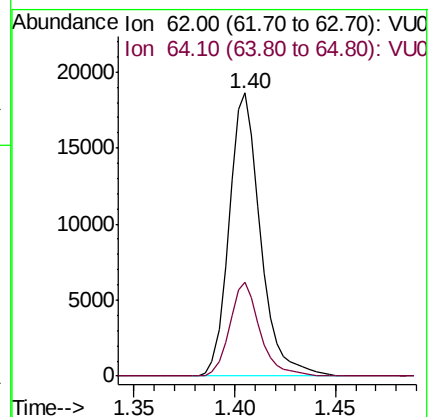
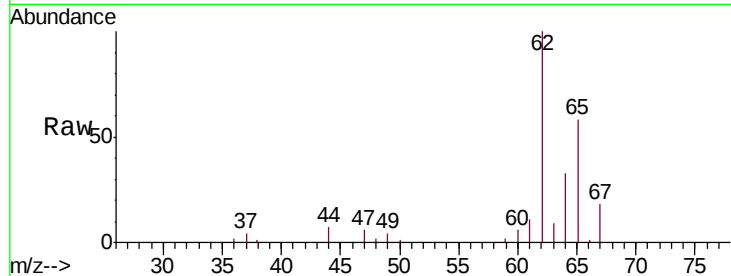
VSTD00502

Tgt Ion: 62 Resp: 20275

Ion Ratio Lower Upper

62 100

64 33.0 22.7 42.1



#6

Bromomethane

Concen: 5.231 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027791.D

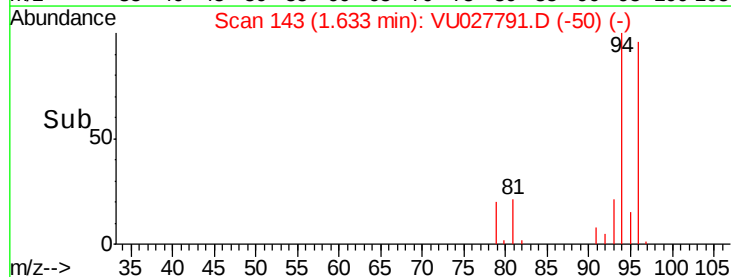
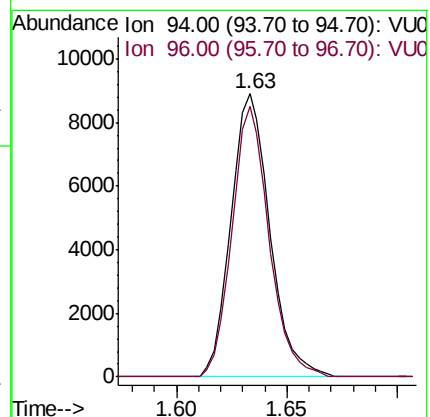
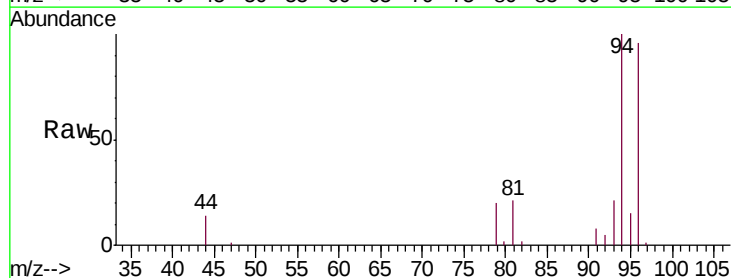
Acq: 24 Oct 2018 17:24

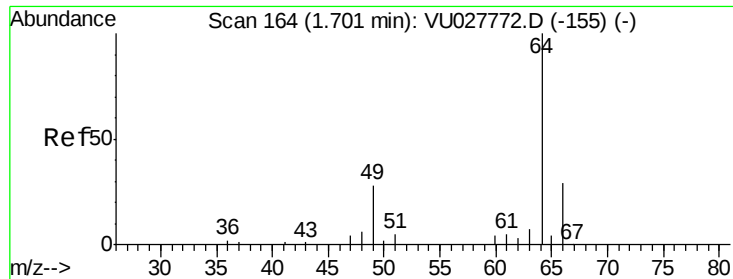
Tgt Ion: 94 Resp: 10902

Ion Ratio Lower Upper

94 100

96 95.5 65.5 121.7





#8

Chloroethane

Concen: 5.052 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

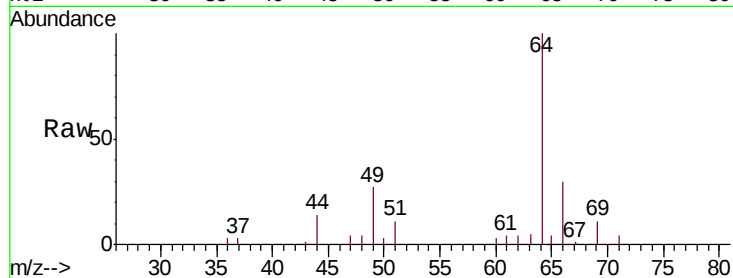
VSTD00502

Tgt Ion: 64 Resp: 11102

Ion Ratio Lower Upper

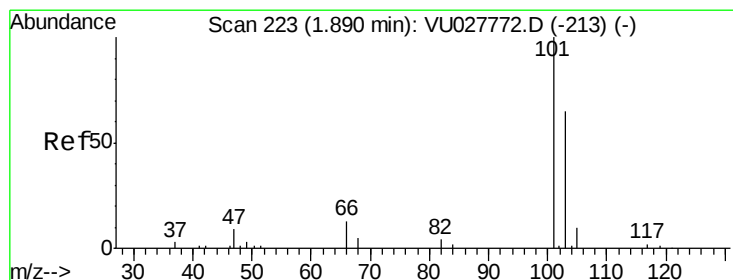
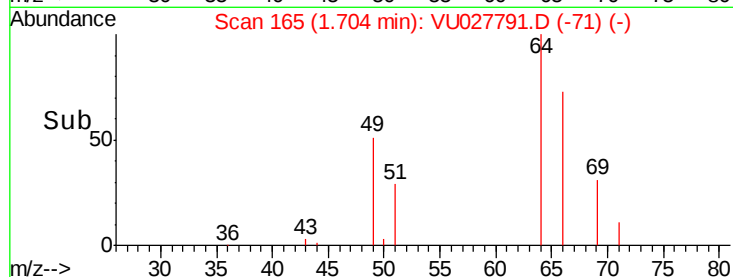
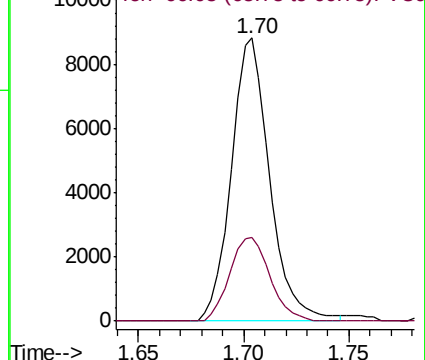
64 100

66 29.6 20.3 37.7



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 5.189 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU027791.D

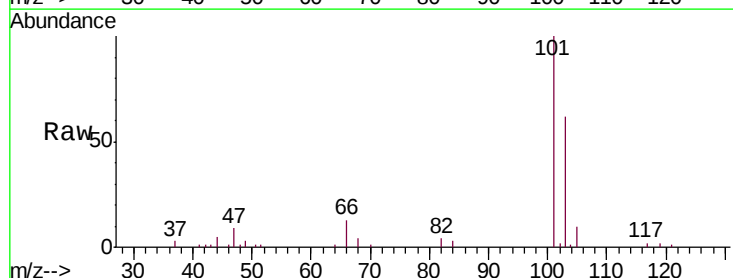
Acq: 24 Oct 2018 17:24

Tgt Ion: 101 Resp: 27886

Ion Ratio Lower Upper

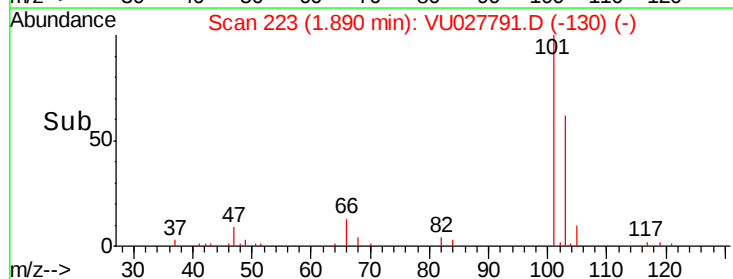
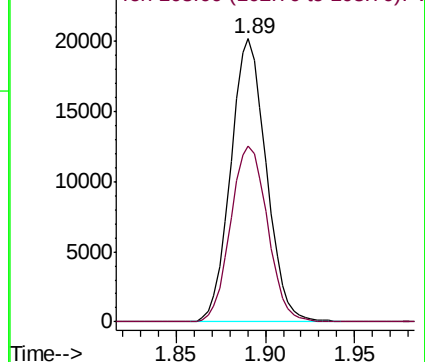
101 100

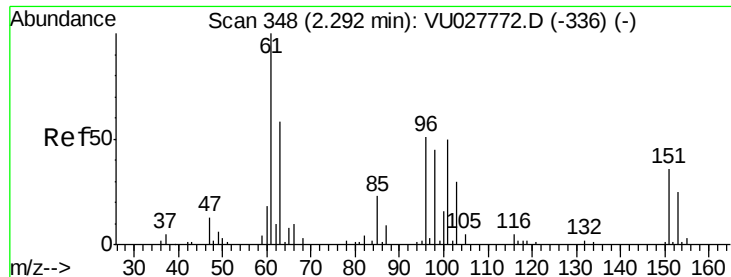
103 64.2 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 5.184 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU027791.D

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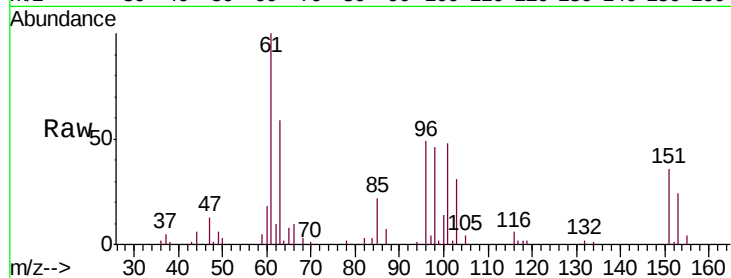
Tgt Ion: 101 Resp: 14063

Ion Ratio Lower Upper

101 100

85 47.5 38.1 57.1

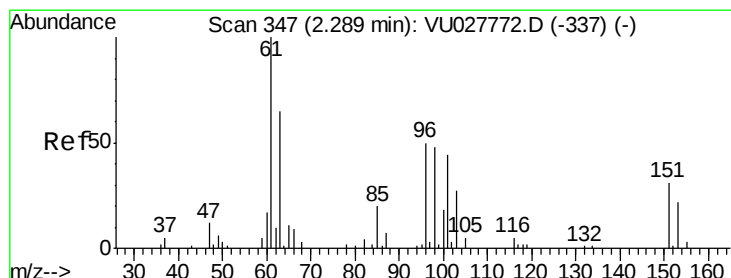
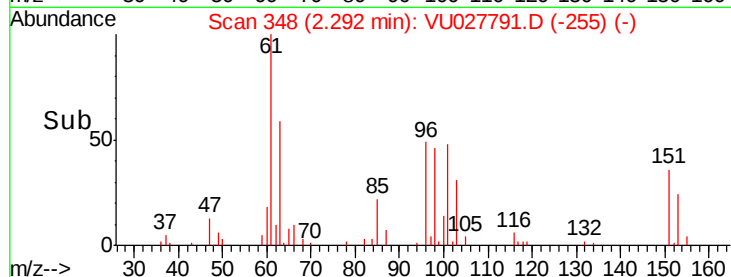
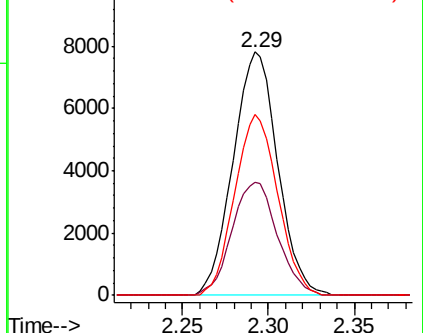
151 71.8 57.0 85.4



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: 5.066 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

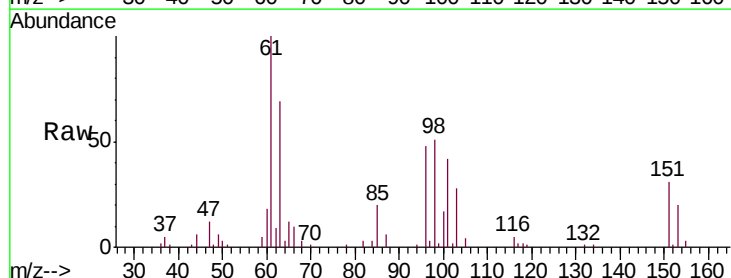
Tgt Ion: 96 Resp: 12808

Ion Ratio Lower Upper

96 100

61 206.8 143.8 267.0

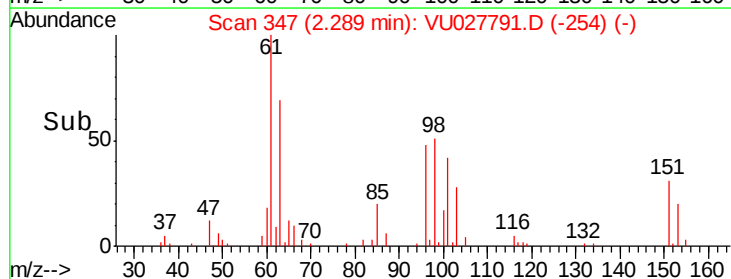
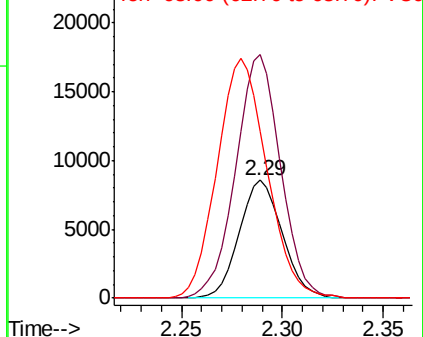
63 142.0 105.1 195.3

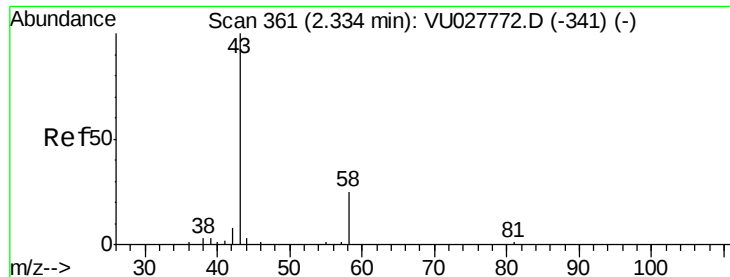


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.915 ug/L

RT: 2.33 min Scan# 361

Delta R.T. -0.00 min

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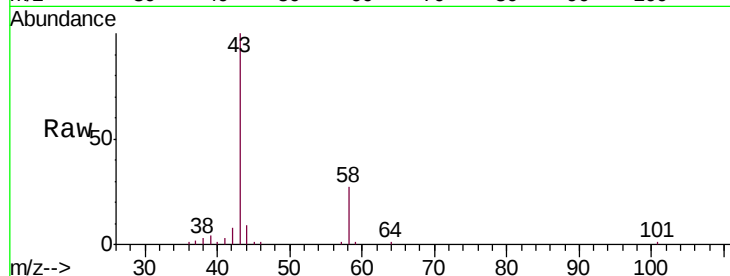
VSTD00502

Tgt Ion: 43 Resp: 31819

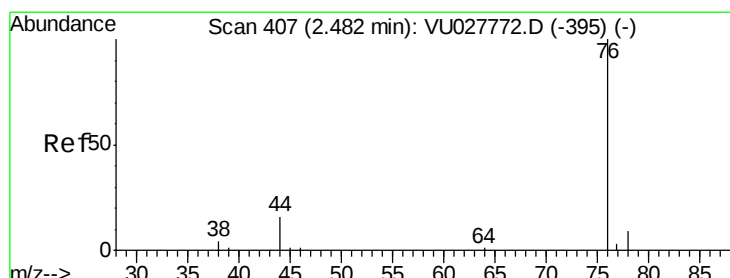
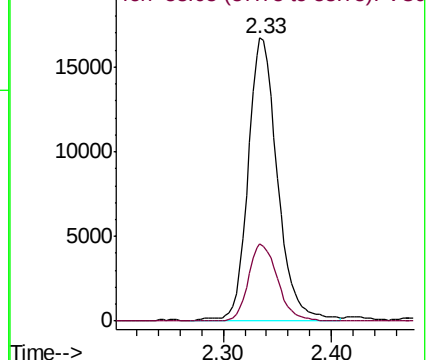
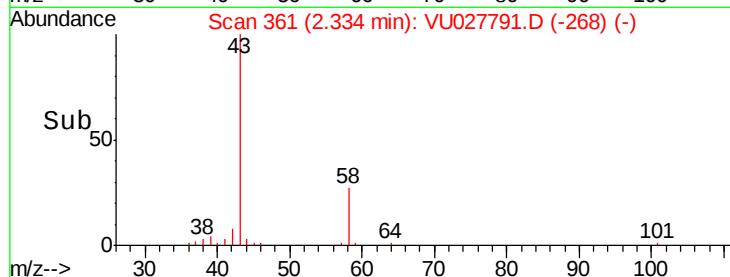
Ion Ratio Lower Upper

43 100

58 27.0 0.0 52.8



Abundance Ion 43.05 (42.75 to 43.75): VU027791.D (-268) (-)



#14

Carbon disulfide

Concen: 4.836 ug/L

RT: 2.48 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU027791.D

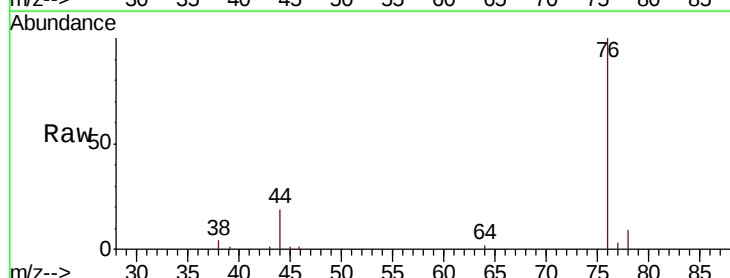
Acq: 24 Oct 2018 17:24

Tgt Ion: 76 Resp: 41969

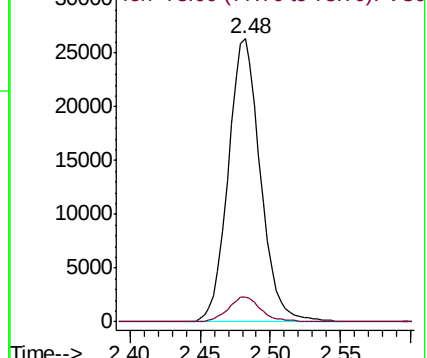
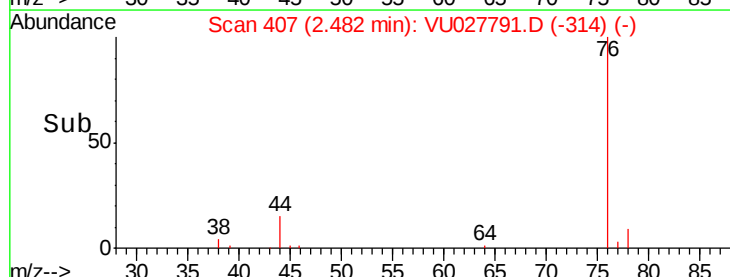
Ion Ratio Lower Upper

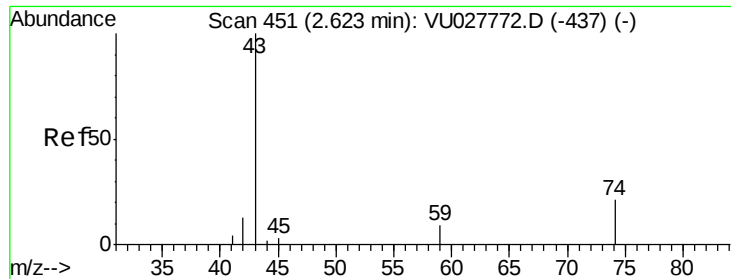
76 100

78 8.9 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU027791.D (-314) (-)





#15

Methyl Acetate

Concen: 4.522 ug/L

RT: 2.63 min Scan# 452

Delta R.T. 0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

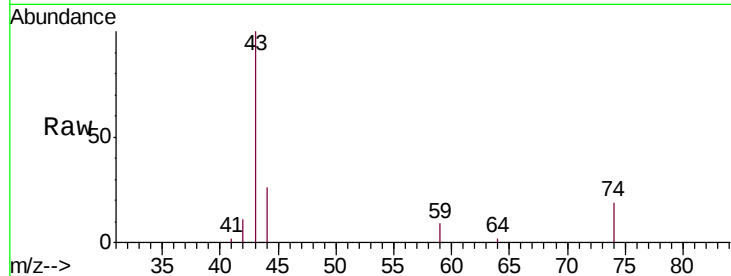
VSTD00502

Tgt Ion: 43 Resp: 8767

Ion Ratio Lower Upper

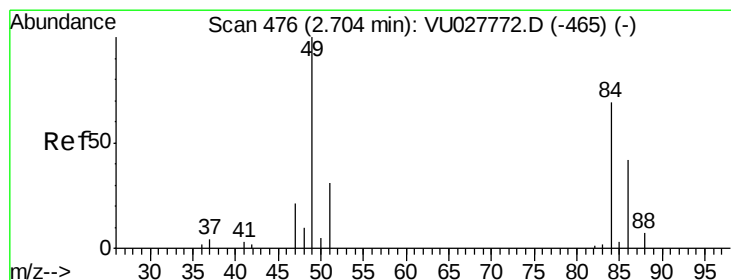
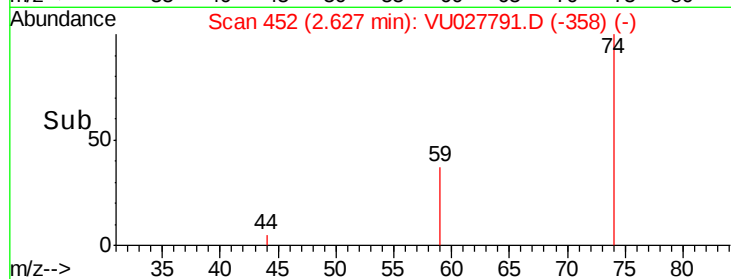
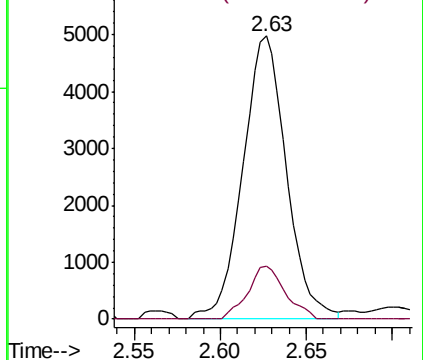
43 100

74 16.1 15.8 23.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 4.837 ug/L

RT: 2.70 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

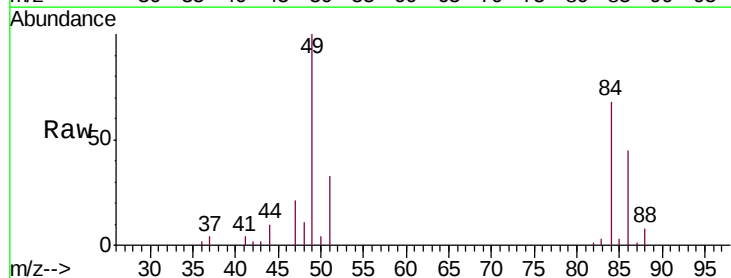
Tgt Ion: 84 Resp: 14422

Ion Ratio Lower Upper

84 100

86 65.5 42.8 79.4

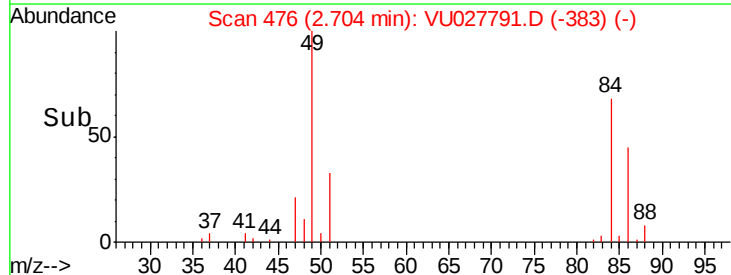
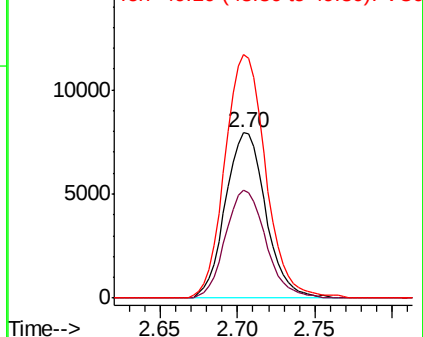
49 147.1 101.4 188.4

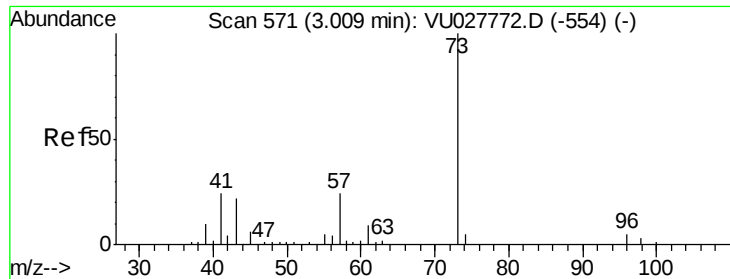


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0





#17

Methyl tert-butyl Ether

Concen: 4.964 ug/L

RT: 3.01 min Scan# 571

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

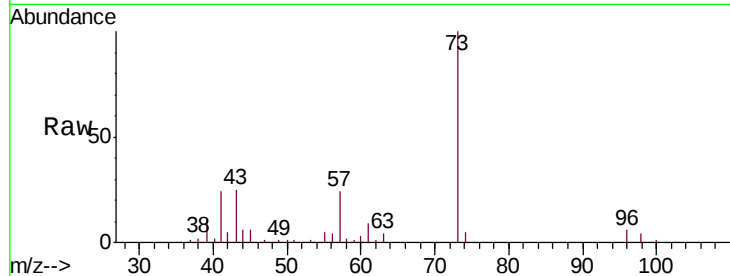
Tgt Ion: 73 Resp: 40171

Ion Ratio Lower Upper

73 100

43 25.7 18.6 28.0

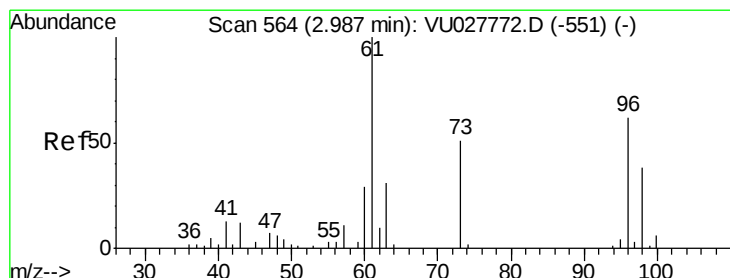
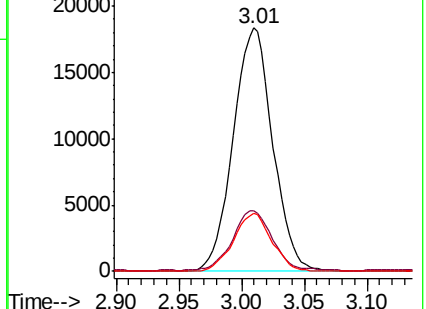
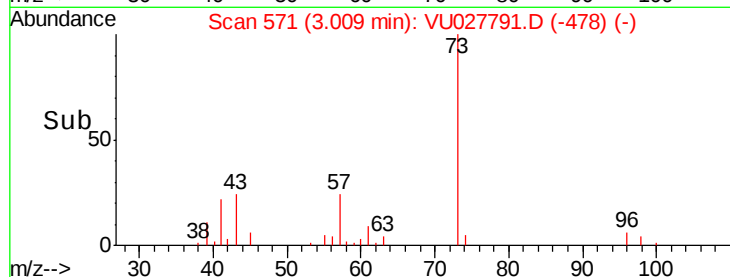
57 22.9 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU027791.D (-478) (-)

Ion 43.05 (42.75 to 43.75): VU027791.D (-478) (-)

Ion 57.10 (56.80 to 57.80): VU027791.D (-478) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.101 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

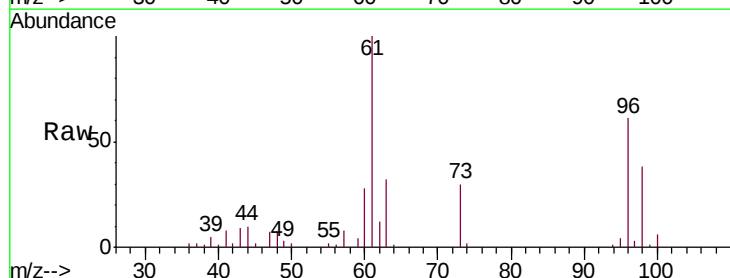
Tgt Ion: 96 Resp: 13819

Ion Ratio Lower Upper

96 100

61 164.2 112.1 208.3

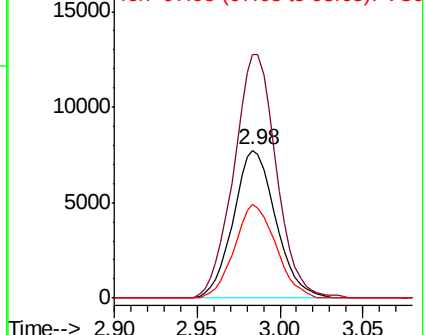
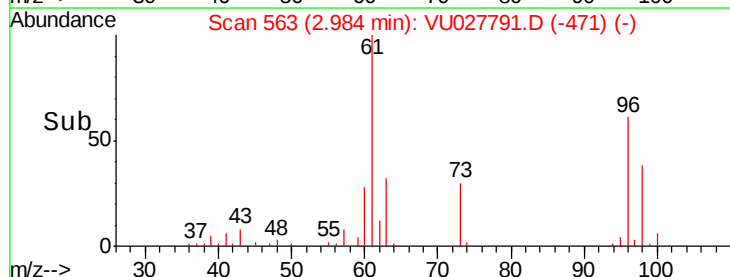
98 63.0 42.1 78.3

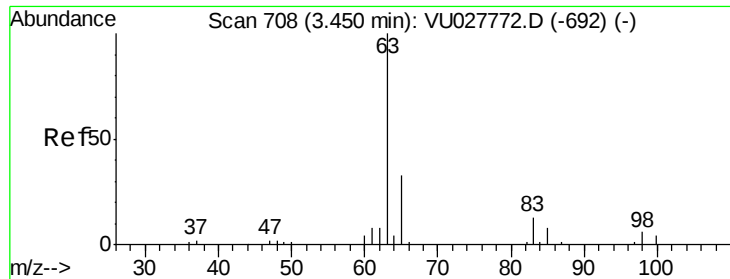


Abundance Ion 96.00 (95.70 to 96.70): VU027791.D (-471) (-)

Ion 61.05 (60.75 to 61.75): VU027791.D (-471) (-)

Ion 97.95 (97.65 to 98.65): VU027791.D (-471) (-)

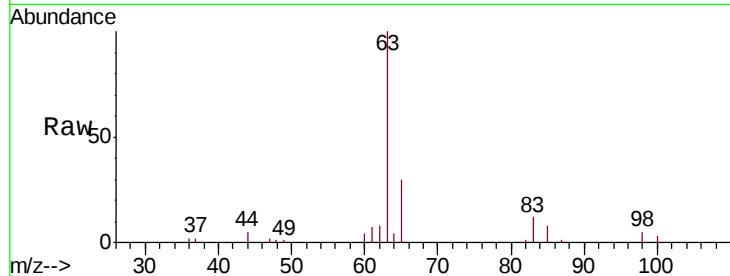




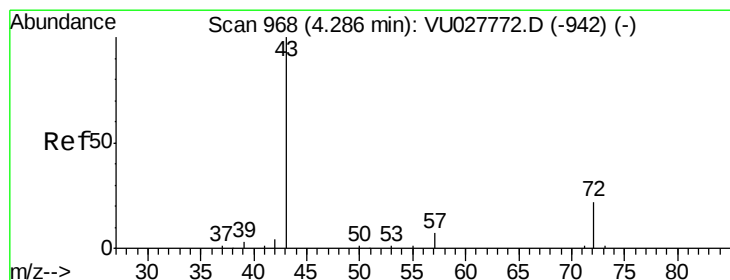
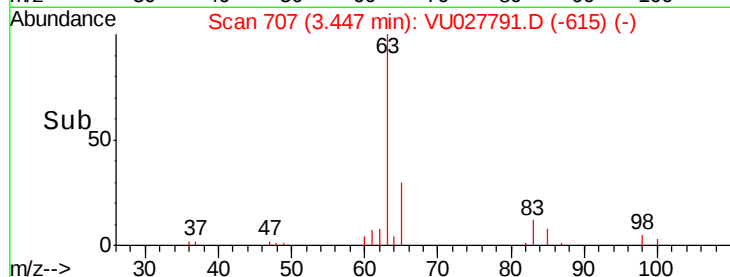
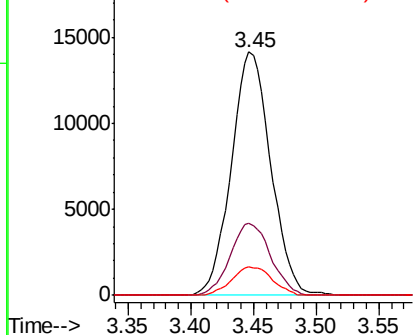
#19
 1,1-Dichloroethane
 Concen: 5.163 ug/L
 RT: 3.45 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion: 63 Resp: 30927
 Ion Ratio Lower Upper
 63 100
 65 29.6 23.1 42.9
 83 11.7 9.2 17.0

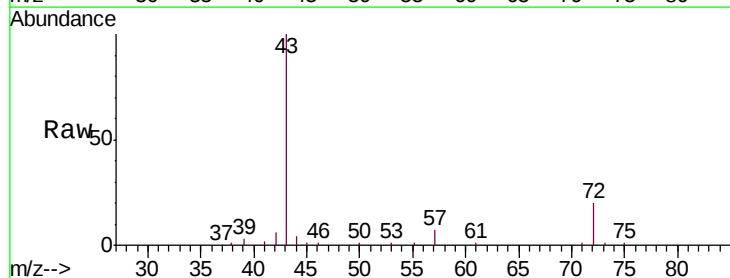


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

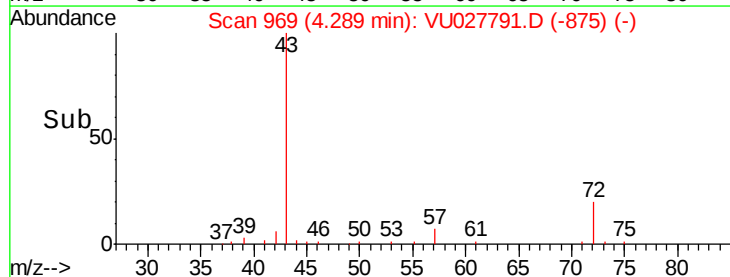
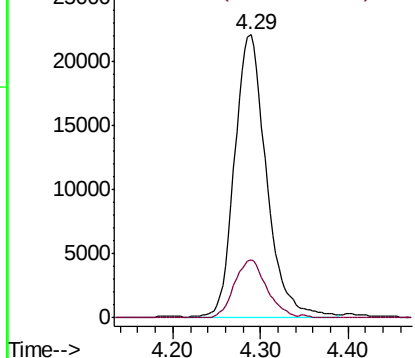


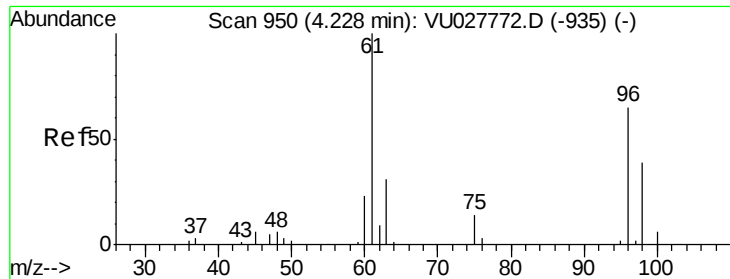
#21
 2-Butanone
 Concen: 49.433 ug/L
 RT: 4.29 min Scan# 969
 Delta R.T. 0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Tgt Ion: 43 Resp: 56208
 Ion Ratio Lower Upper
 43 100
 72 20.6 10.5 31.6



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



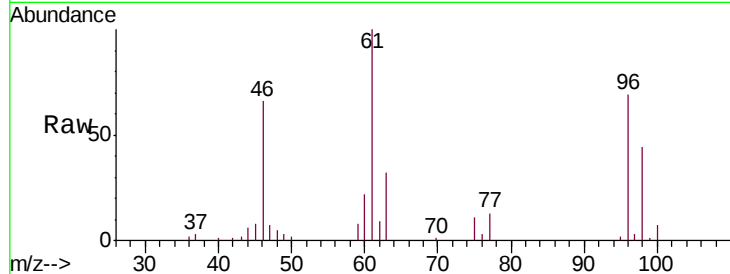


#22

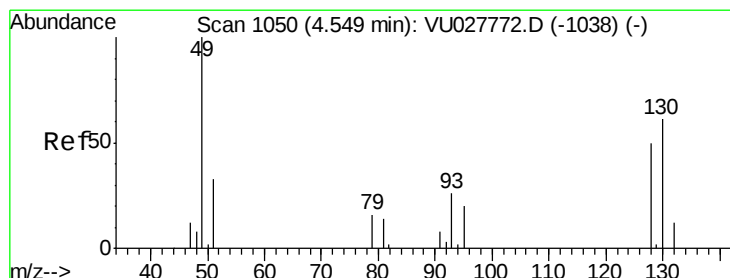
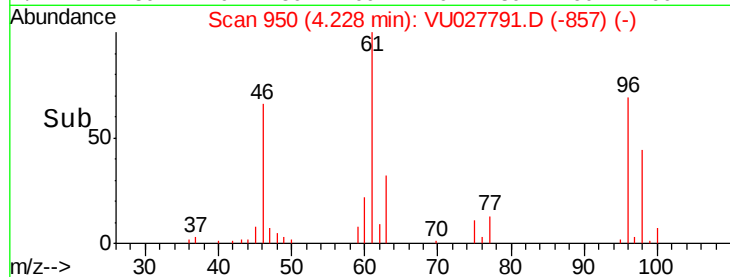
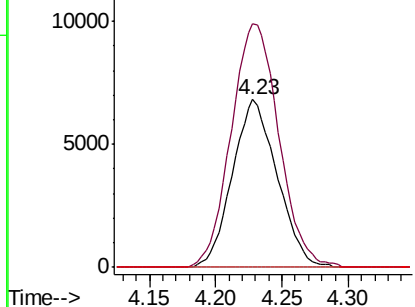
cis-1,2-Dichloroethene
Concen: 4.982 ug/L
RT: 4.23 min Scan# 950
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion: 96 Resp: 16031
Ion Ratio Lower Upper
96 100
61 144.9 107.2 199.0
68 0.0 0.0 0.0



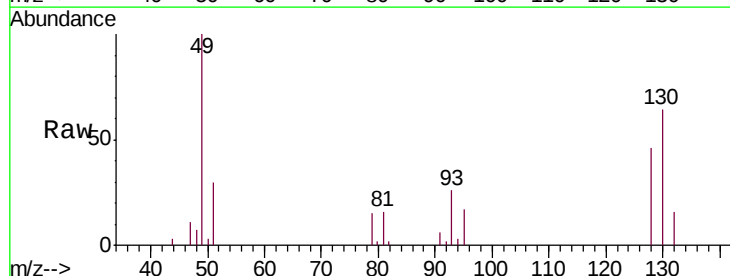
Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 68.15 (67.85 to 68.85): VU0



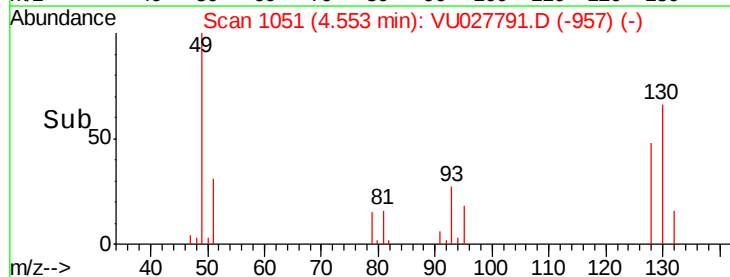
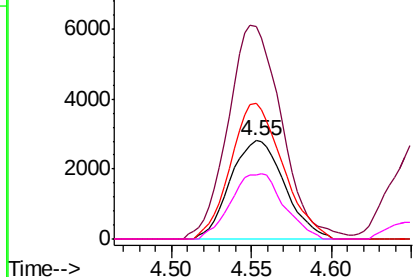
#23

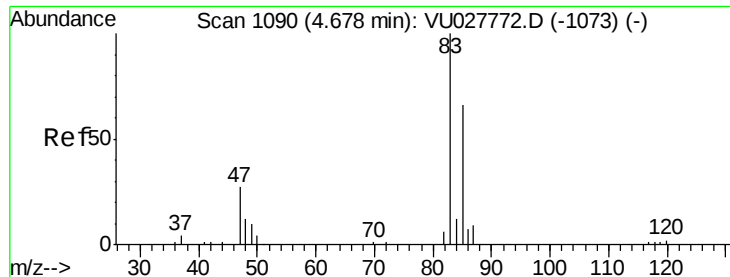
Bromochloromethane
Concen: 5.012 ug/L
RT: 4.55 min Scan# 1051
Delta R.T. 0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Tgt Ion: 128 Resp: 6539
Ion Ratio Lower Upper
128 100
49 215.3 142.8 265.2
130 138.3 86.0 159.8
51 64.9 52.6 79.0



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

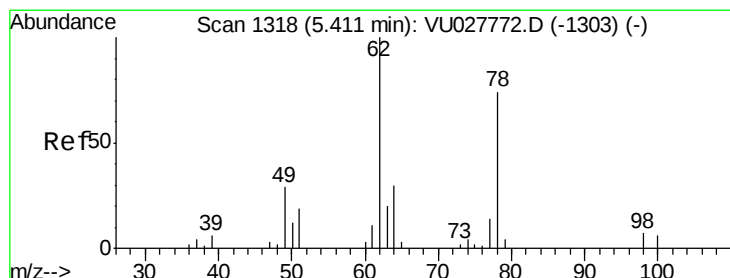
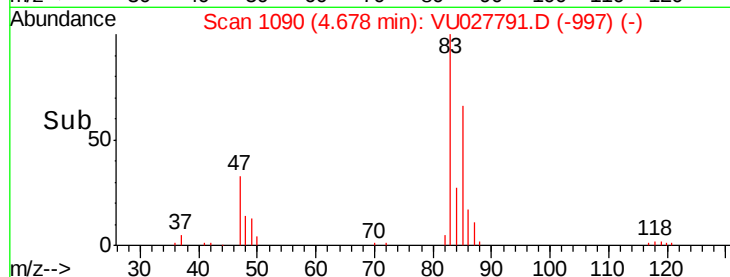
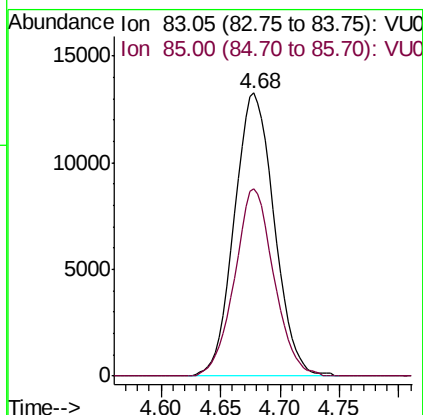
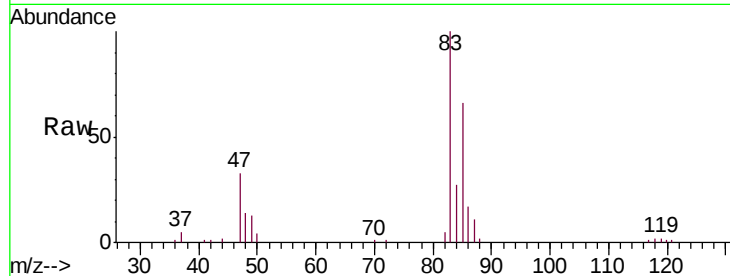




#25
Chloroform
Concen: 5.115 ug/L
RT: 4.68 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

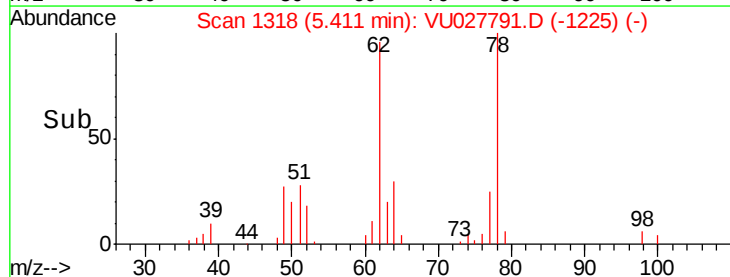
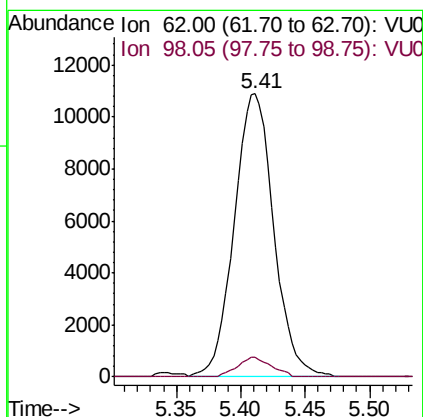
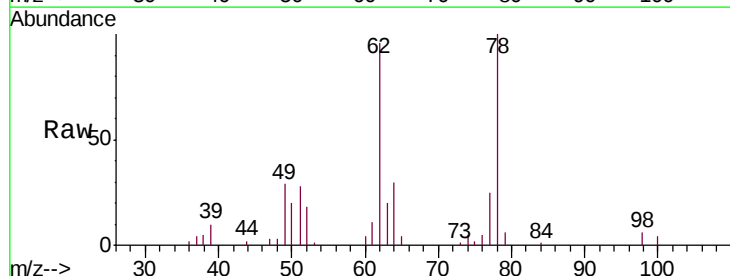
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

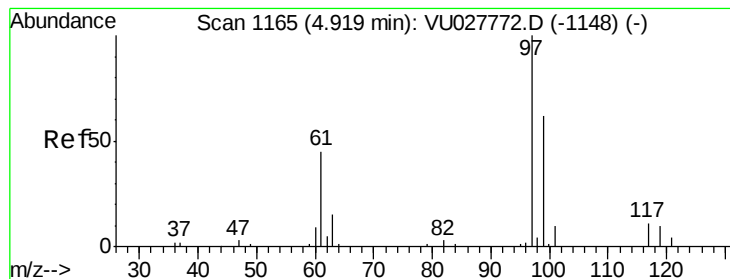
Tgt Ion: 83 Resp: 30854
Ion Ratio Lower Upper
83 100
85 66.4 45.8 85.2



#27
1,2-Dichloroethane
Concen: 5.217 ug/L
RT: 5.41 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Tgt Ion: 62 Resp: 23246
Ion Ratio Lower Upper
62 100
98 6.8 5.7 8.5





#29

1,1,1-Trichloroethane

Concen: 4.904 ug/L

RT: 4.92 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

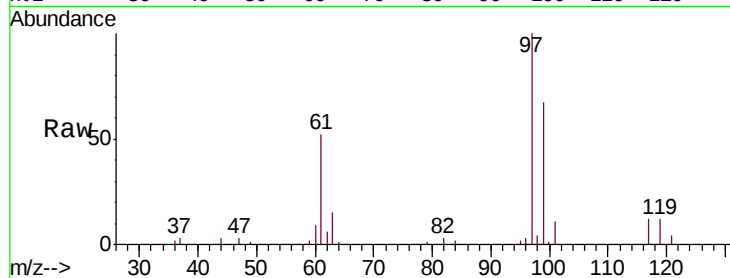
Tgt Ion: 97 Resp: 26996

Ion Ratio Lower Upper

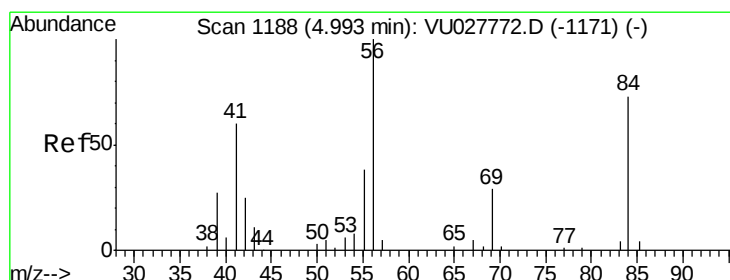
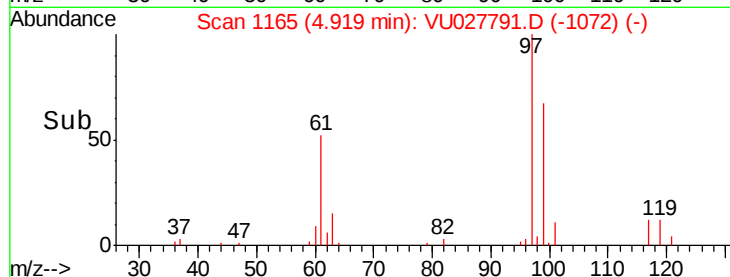
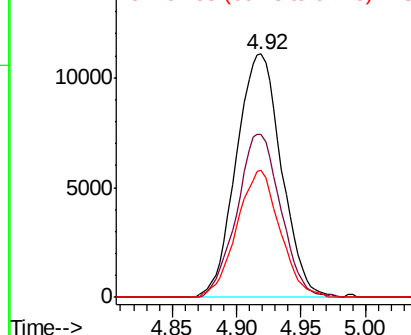
97 100

99 65.0 51.3 76.9

61 49.8 36.7 55.1



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: 4.874 ug/L

RT: 4.99 min Scan# 1188

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

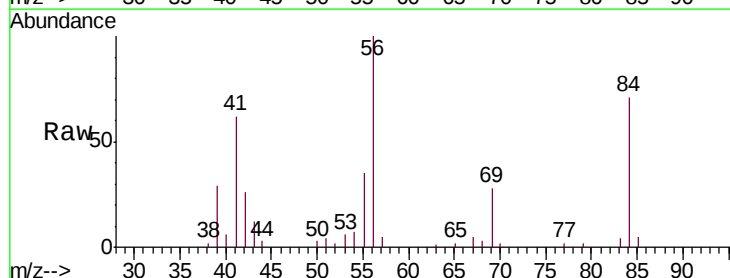
Tgt Ion: 56 Resp: 30050

Ion Ratio Lower Upper

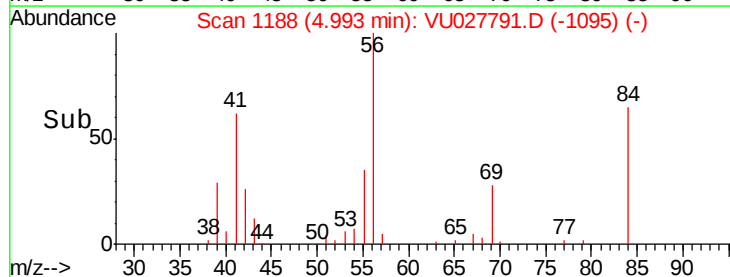
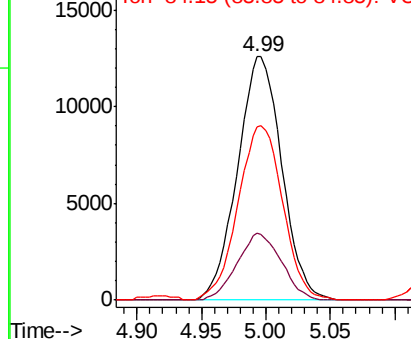
56 100

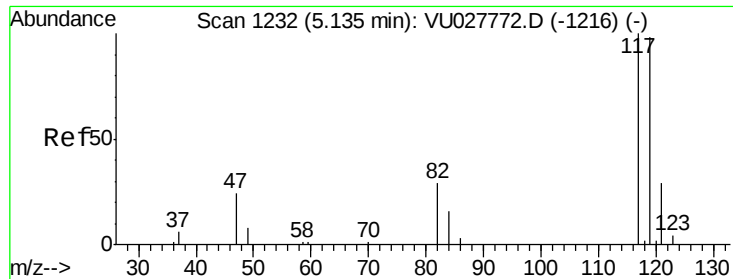
69 27.3 22.2 33.4

84 72.4 58.6 88.0



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

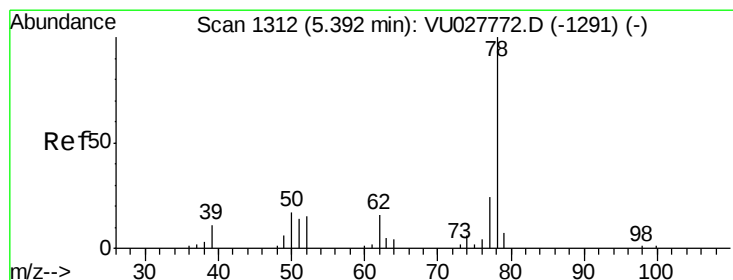
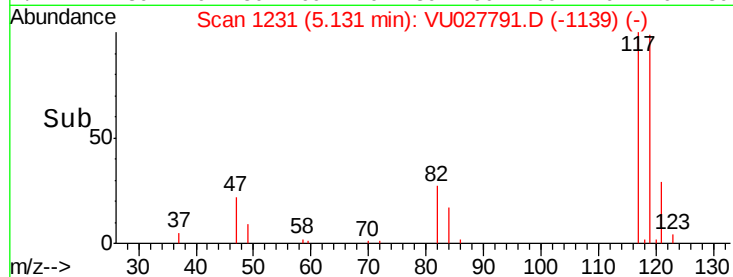
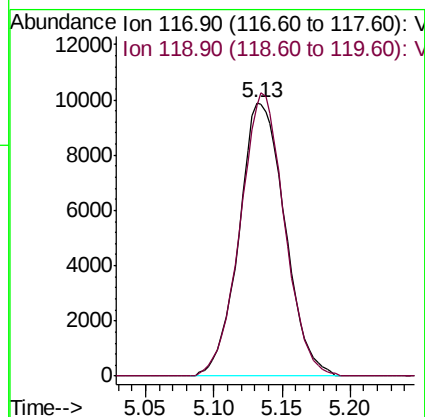
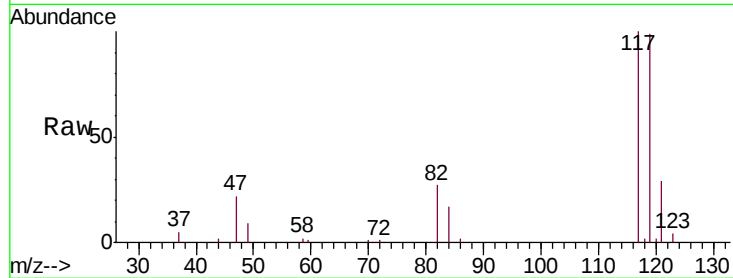




#31
Carbon tetrachloride
Concen: 4.885 ug/L
RT: 5.13 min Scan# 1231
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

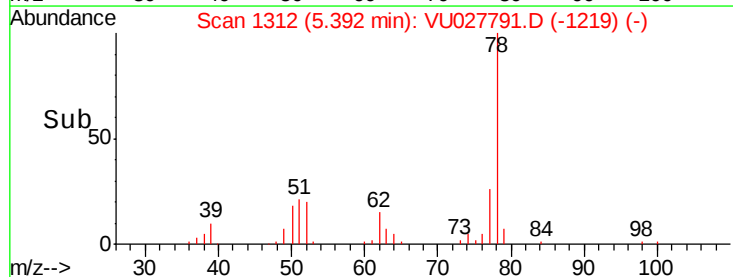
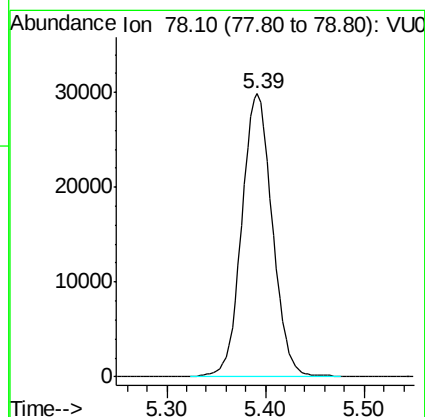
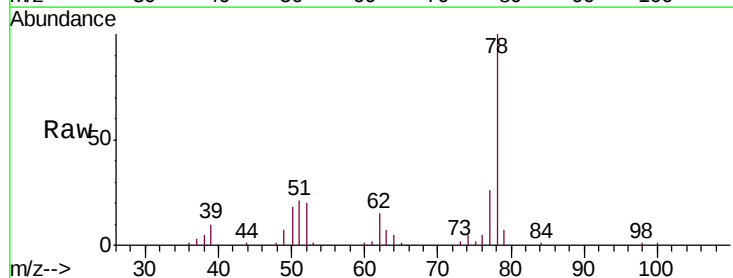
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

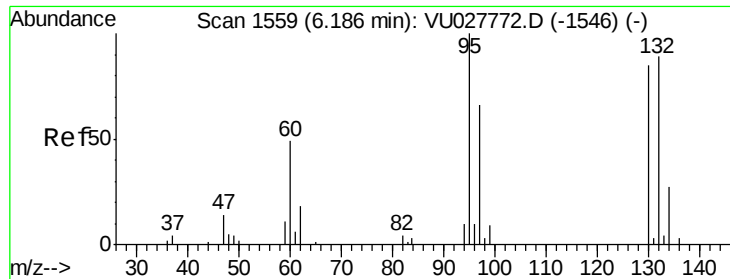
Tgt Ion:117 Resp: 23073
Ion Ratio Lower Upper
117 100
119 100.0 77.0 115.6



#33
Benzene
Concen: 5.031 ug/L
RT: 5.39 min Scan# 1312
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Tgt Ion: 78 Resp: 63984





#34

Trichloroethene

Concen: 5.092 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

Tgt Ion: 95 Resp: 16778

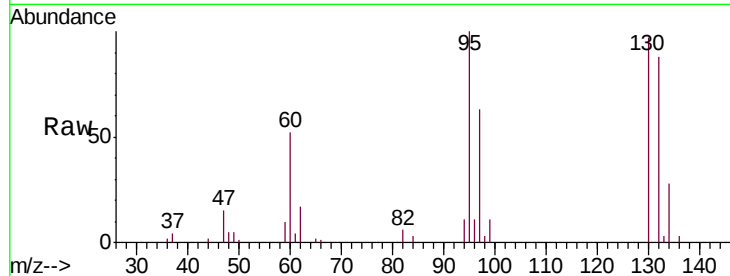
Ion Ratio Lower Upper

95 100

97 63.3 46.4 86.2

132 88.2 62.0 115.2

130 97.2 59.5 110.5

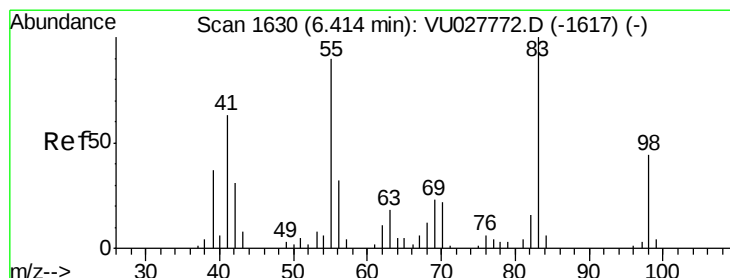
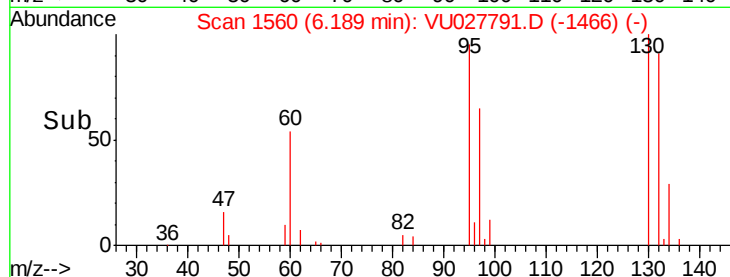
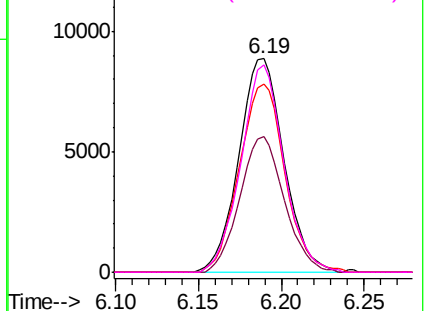


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.920 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

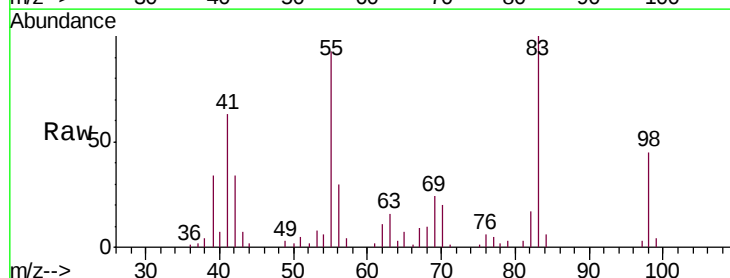
Tgt Ion: 83 Resp: 27090

Ion Ratio Lower Upper

83 100

55 93.0 71.5 107.3

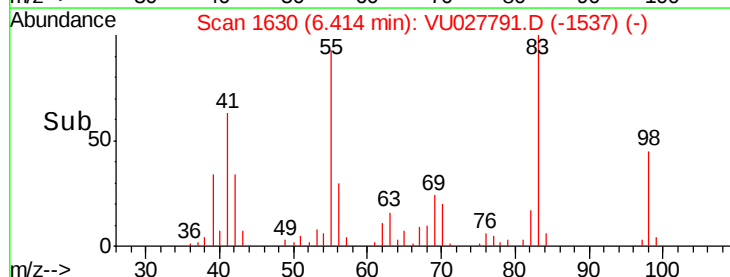
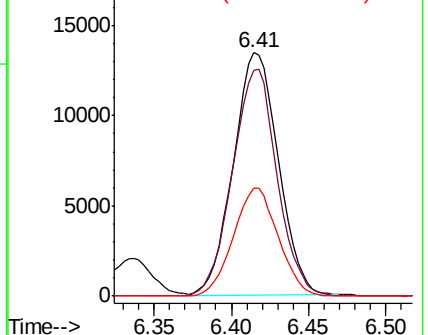
98 44.6 35.4 53.0

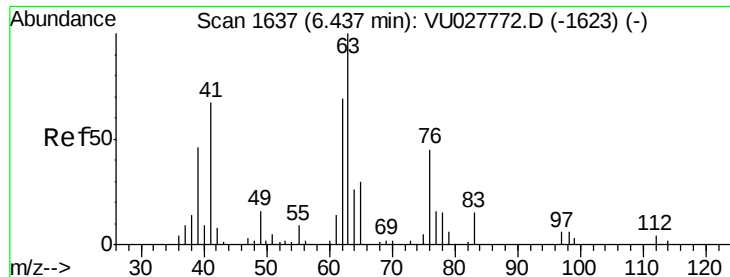


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

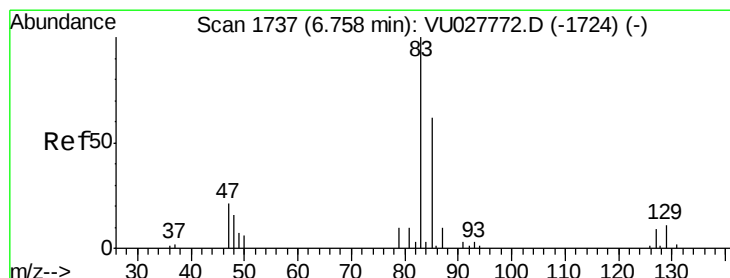
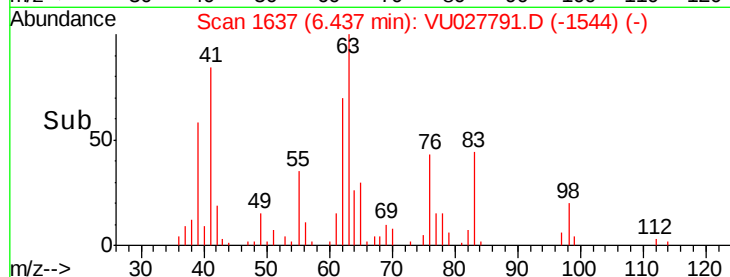
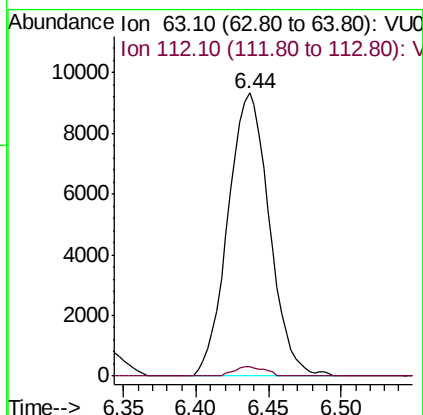
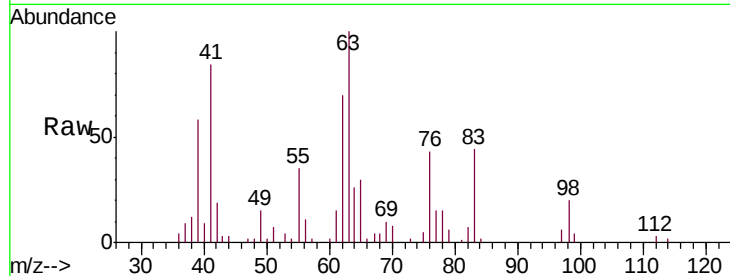




#37
 1,2-Dichloropropane
 Concen: 4.946 ug/L
 RT: 6.44 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

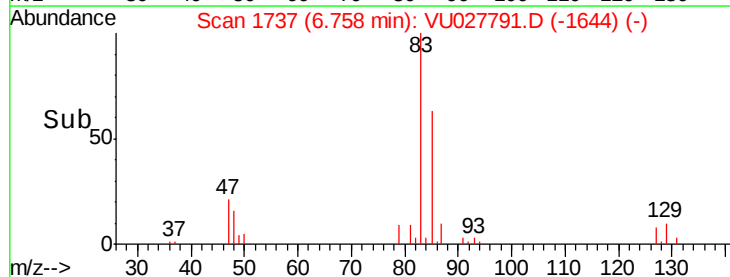
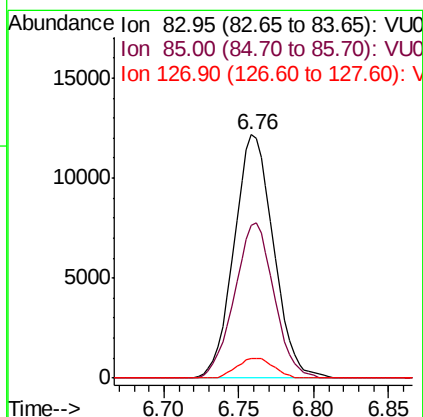
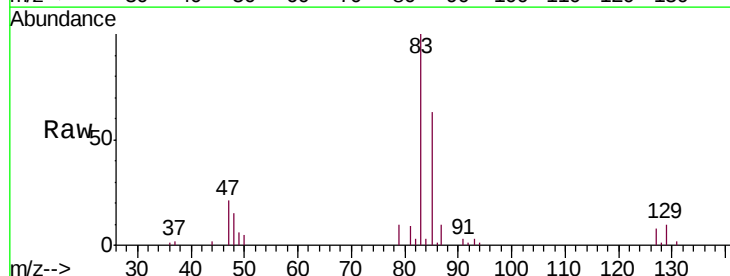
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

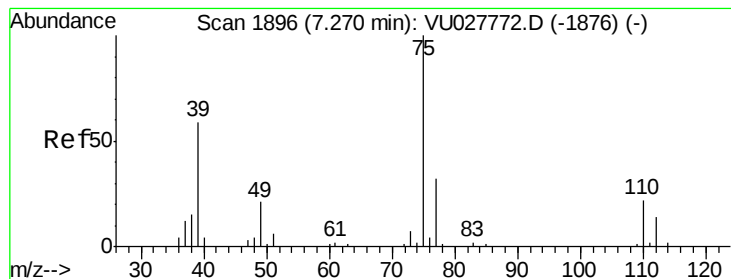
Tgt Ion: 63 Resp: 18470
 Ion Ratio Lower Upper
 63 100
 112 2.5 2.7 4.1#



#38
 Bromodichloromethane
 Concen: 5.019 ug/L
 RT: 6.76 min Scan# 1737
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Tgt Ion: 83 Resp: 22377
 Ion Ratio Lower Upper
 83 100
 85 62.6 43.3 80.5
 127 8.0 7.2 10.8





#39

cis-1,3-Dichloropropene

Concen: 4.916 ug/L

RT: 7.27 min Scan# 1897

Delta R.T. 0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

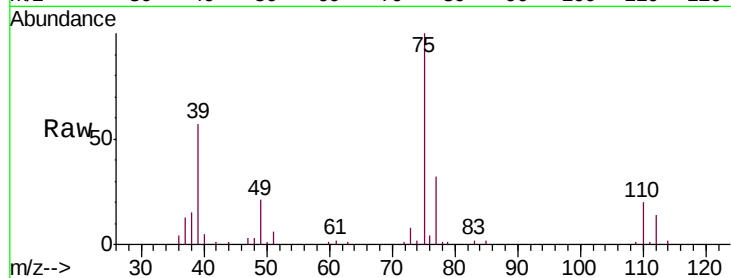
VSTD00502

Tgt Ion: 75 Resp: 26295

Ion Ratio Lower Upper

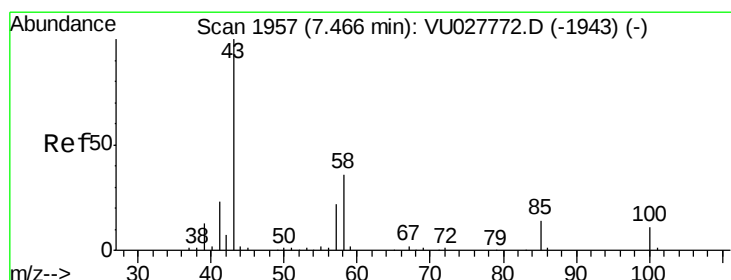
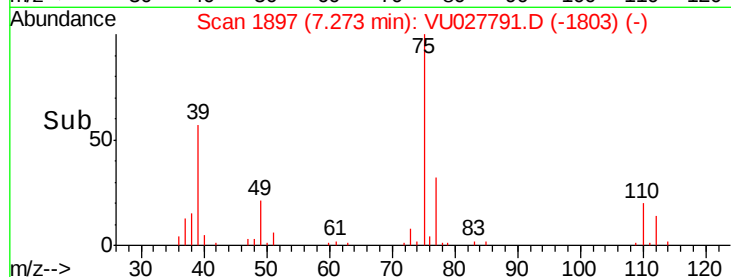
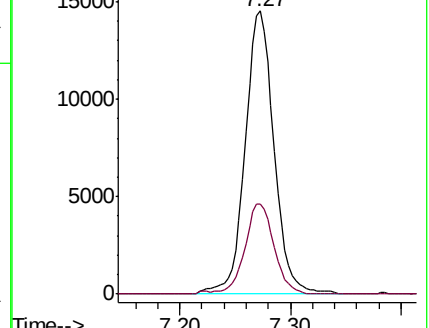
75 100

77 32.0 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#40

4-Methyl-2-pentanone

Concen: 49.713 ug/L

RT: 7.47 min Scan# 1957

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

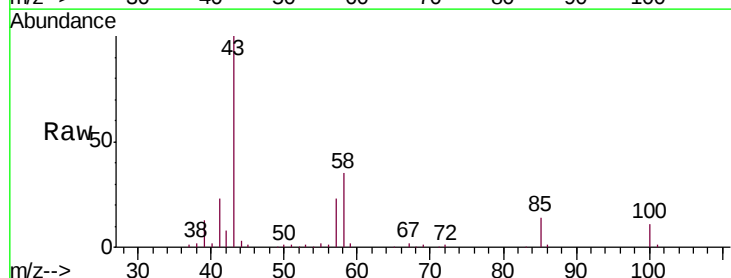
Tgt Ion: 43 Resp: 138784

Ion Ratio Lower Upper

43 100

58 35.4 28.1 42.1

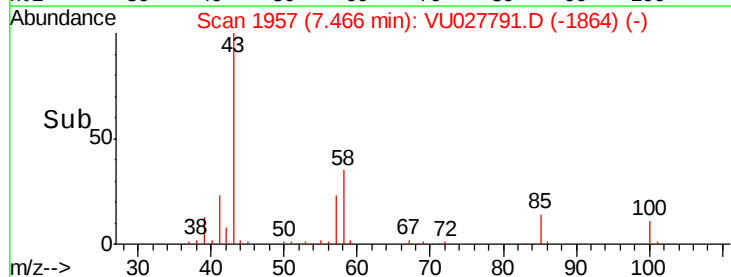
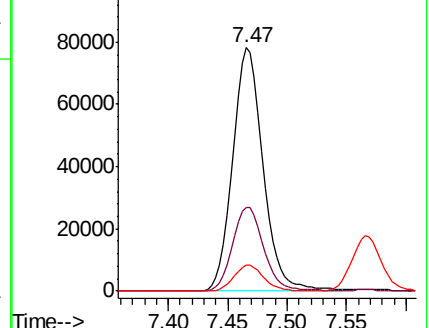
100 10.6 8.7 13.1

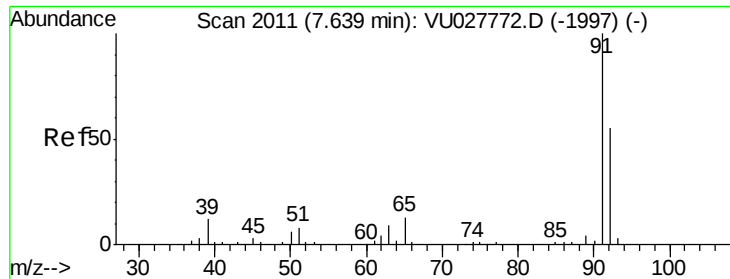


Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0





#42

Toluene

Concen: 4.948 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

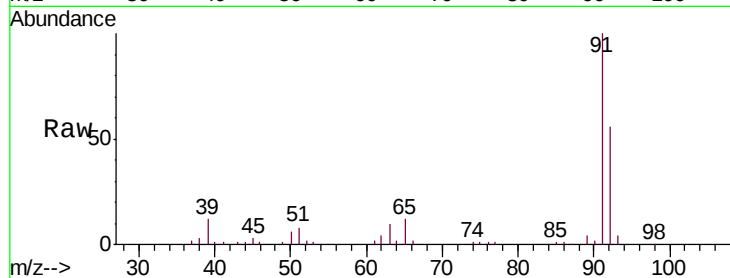
VSTD00502

Tgt Ion: 91 Resp: 67738

Ion Ratio Lower Upper

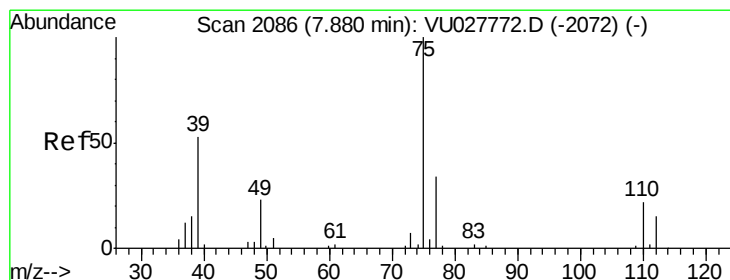
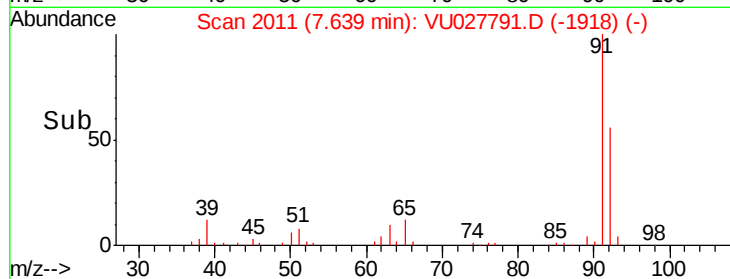
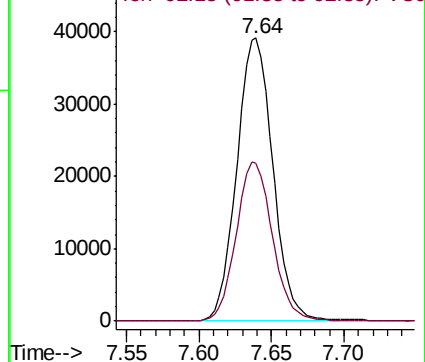
91 100

92 55.7 38.6 71.8



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.015 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027791.D

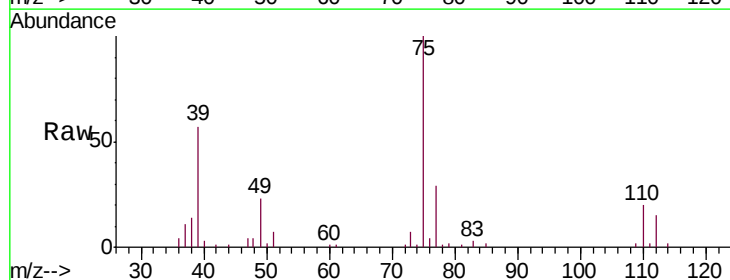
Acq: 24 Oct 2018 17:24

Tgt Ion: 75 Resp: 22589

Ion Ratio Lower Upper

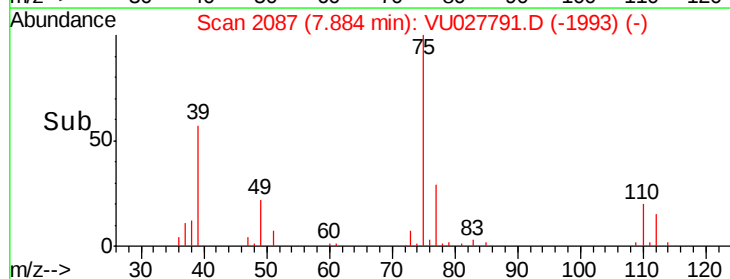
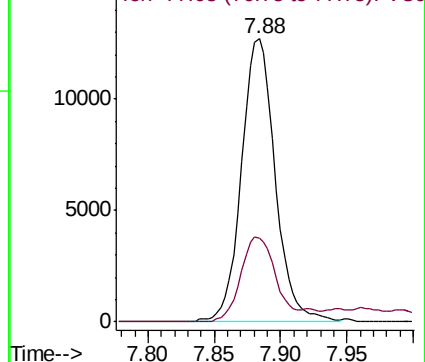
75 100

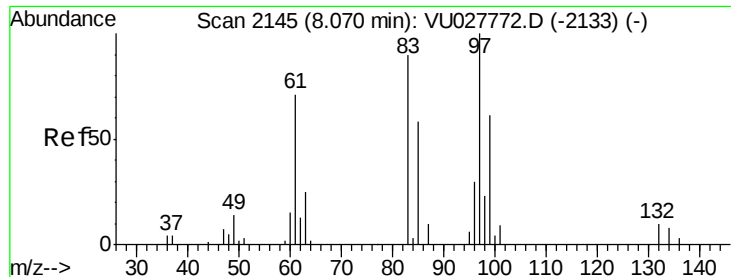
77 29.5 23.5 43.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

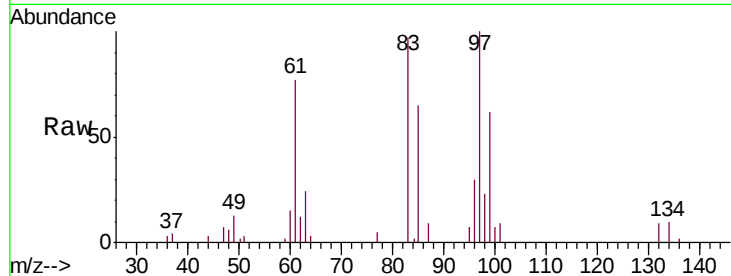




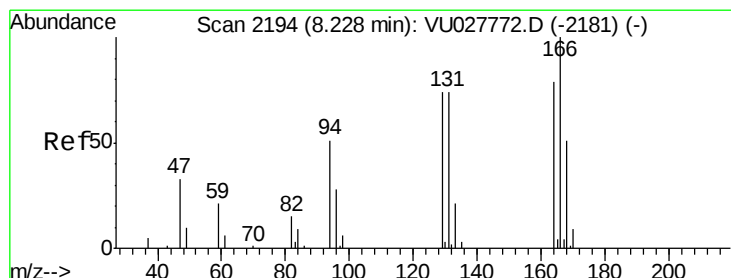
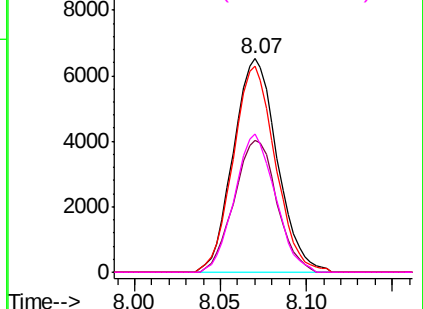
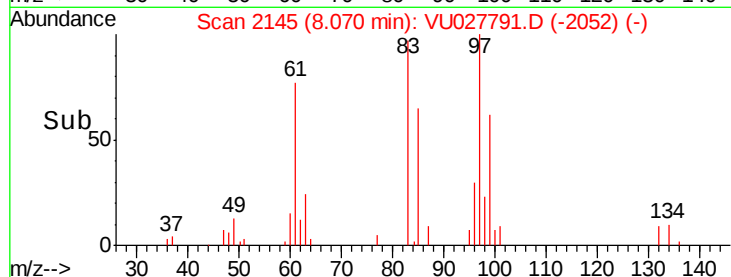
#45
 1,1,2-Trichloroethane
 Concen: 5.126 ug/L
 RT: 8.07 min Scan# 2145
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:	97	Resp:	11552
Ion	Ratio	Lower	Upper
97	100		
99	62.0	42.8	79.6
83	96.6	62.9	116.9
85	64.7	40.8	75.8

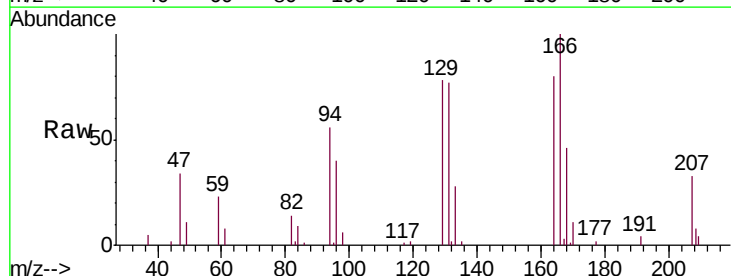


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

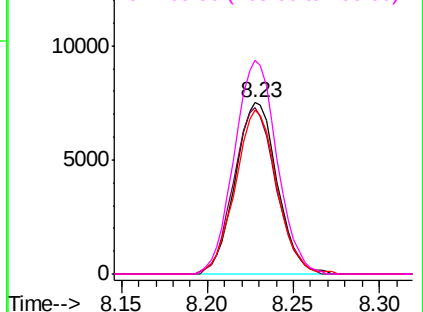
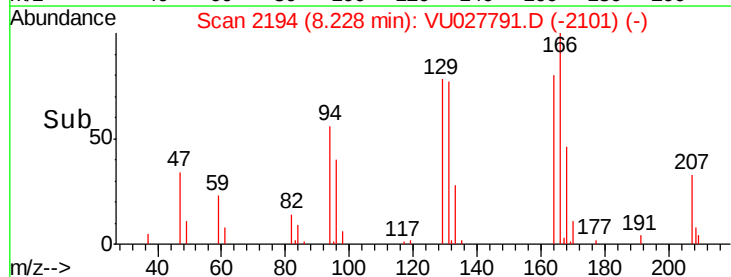


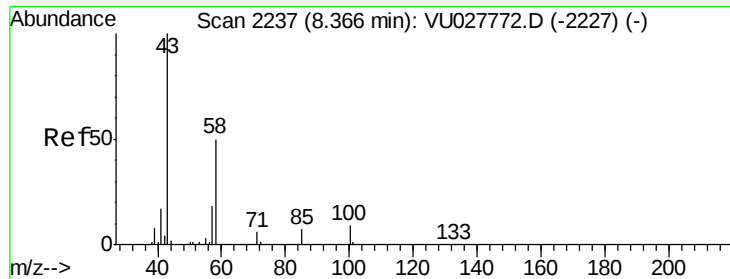
#47
 Tetrachloroethene
 Concen: 4.770 ug/L
 RT: 8.23 min Scan# 2194
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Tgt Ion:	164	Resp:	12768
Ion	Ratio	Lower	Upper
164	100		
129	96.8	65.6	121.8
131	95.7	65.0	120.8
166	124.6	88.3	164.1



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

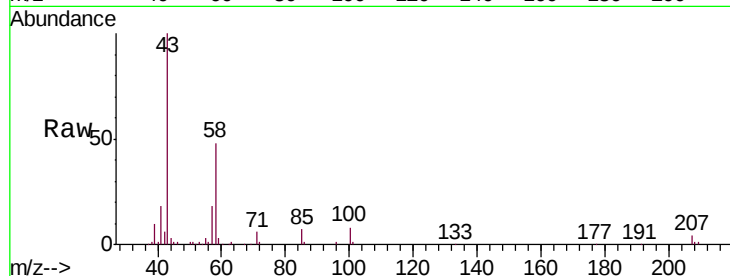




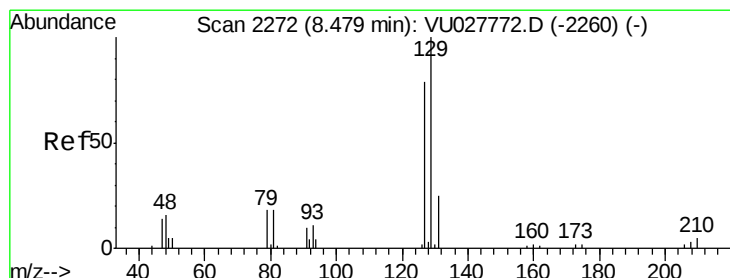
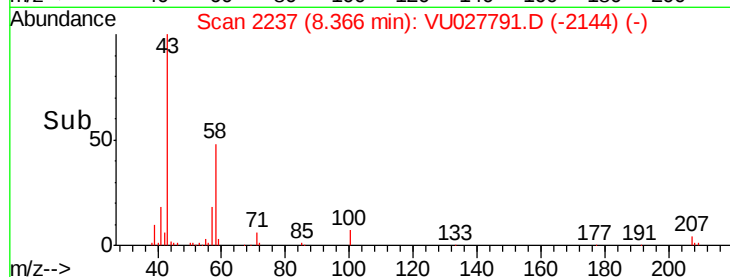
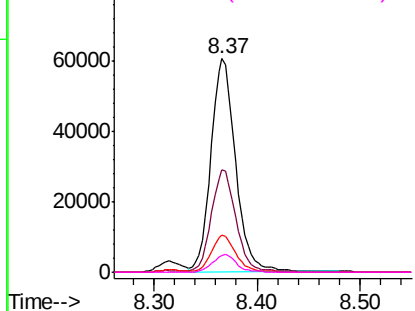
#48
2-Hexanone
Concen: 50.585 ug/L
RT: 8.37 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion: 43 Resp: 100342
Ion Ratio Lower Upper
43 100
58 48.5 39.4 59.0
57 17.4 13.8 20.8
100 8.0 6.7 10.1

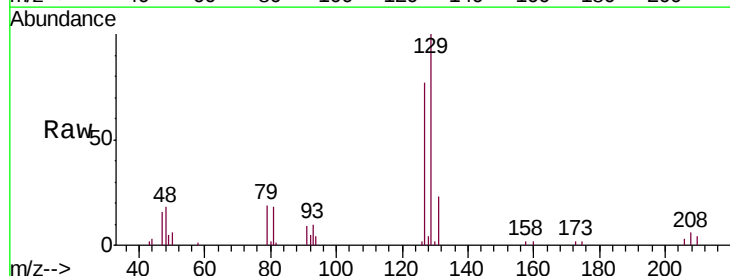


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

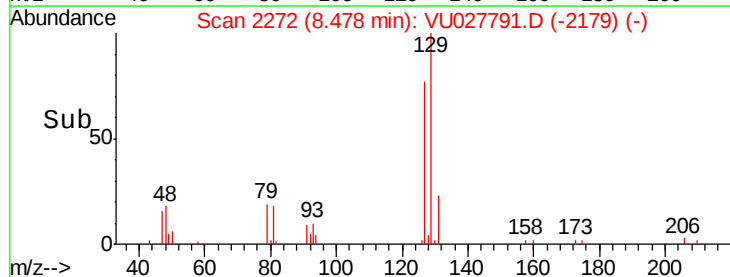
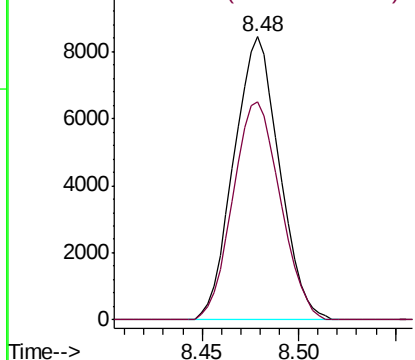


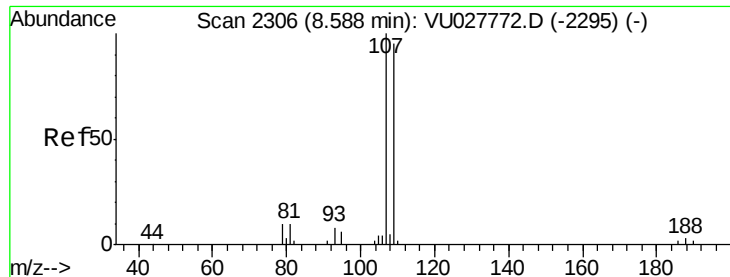
#49
Dibromochloromethane
Concen: 4.814 ug/L
RT: 8.48 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Tgt Ion: 129 Resp: 13825
Ion Ratio Lower Upper
129 100
127 76.9 55.2 102.4



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

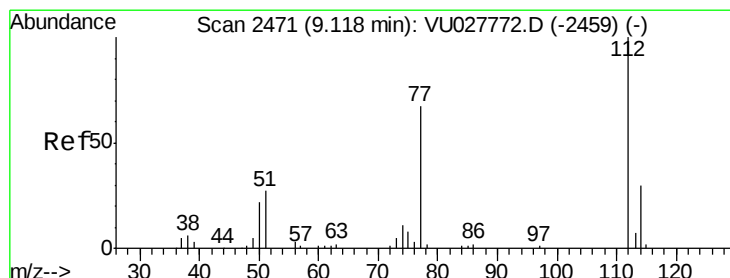
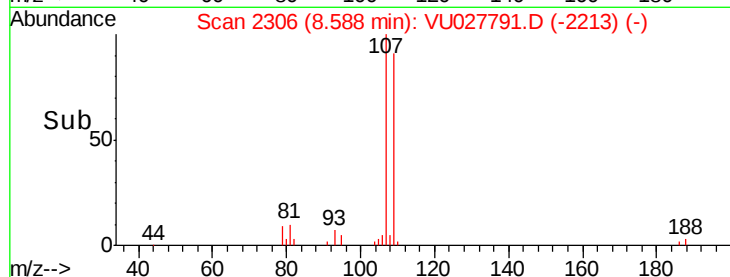
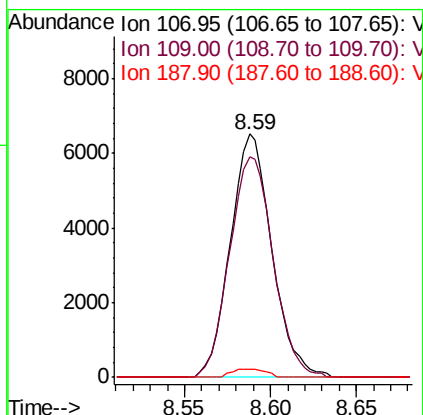
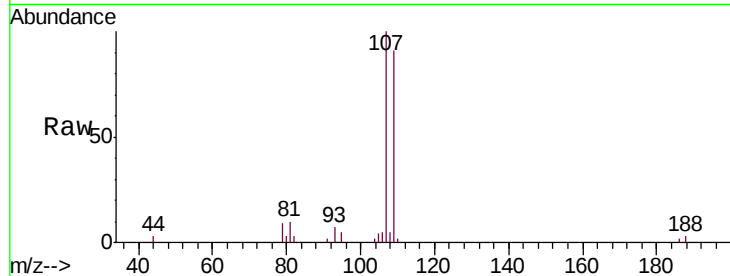




#50
1,2-Dibromoethane
Concen: 4.983 ug/L
RT: 8.59 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

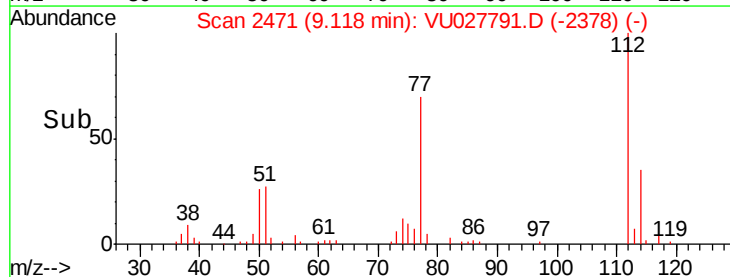
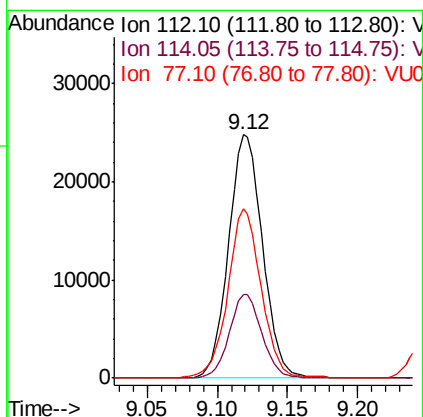
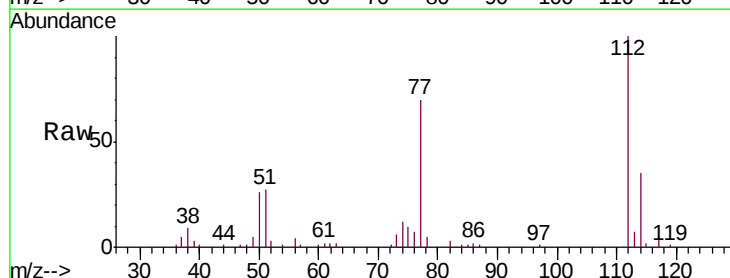
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

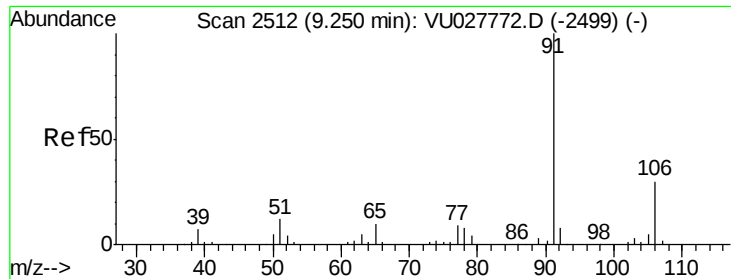
Tgt Ion:107 Resp: 10916
Ion Ratio Lower Upper
107 100
109 90.6 66.3 123.1
188 3.4 2.6 3.8



#51
Chlorobenzene
Concen: 4.974 ug/L
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU027791.D
Acq: 24 Oct 2018 17:24

Tgt Ion:112 Resp: 41924
Ion Ratio Lower Upper
112 100
114 34.6 21.2 39.4
77 69.8 54.2 81.4





#52

Ethylbenzene

Concen: 4.884 ug/L

RT: 9.25 min Scan# 2512

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

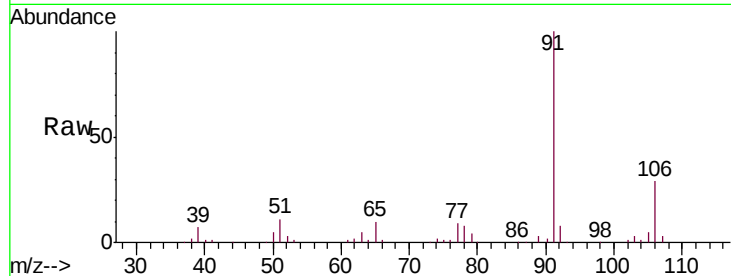
VSTD00502

Tgt Ion: 91 Resp: 77569

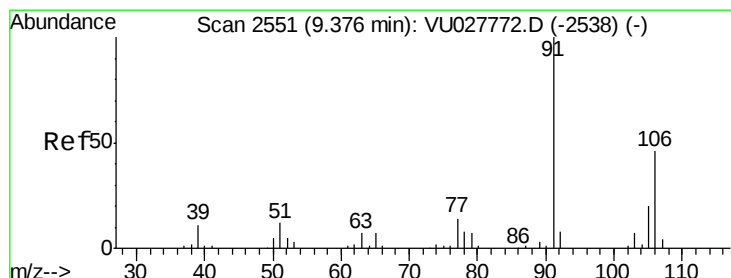
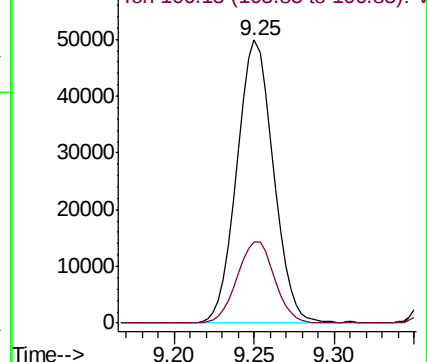
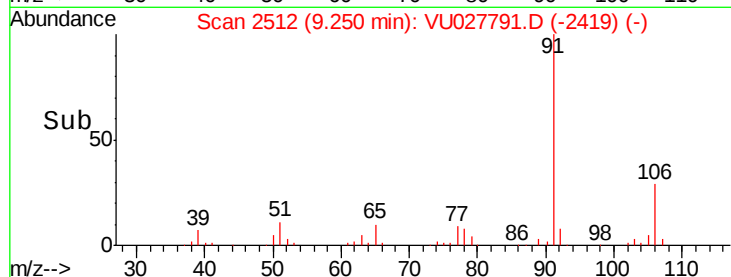
Ion Ratio Lower Upper

91 100

106 28.8 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU027791.D (-2419) (-)



#53

m,p-xylene

Concen: 5.006 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027791.D

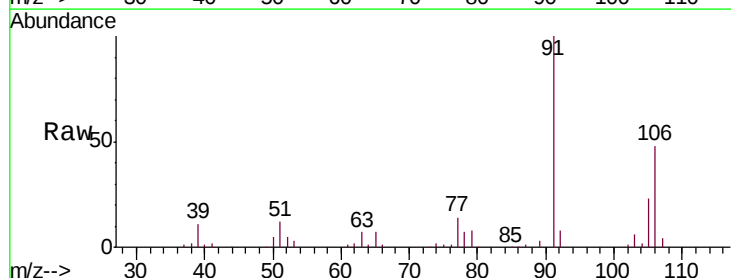
Acq: 24 Oct 2018 17:24

Tgt Ion: 106 Resp: 28159

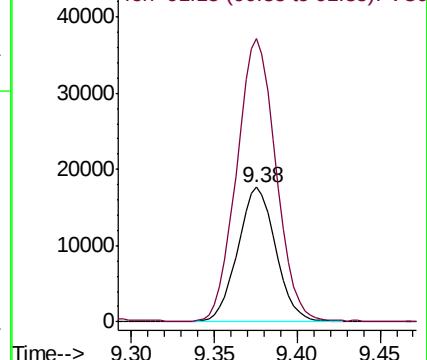
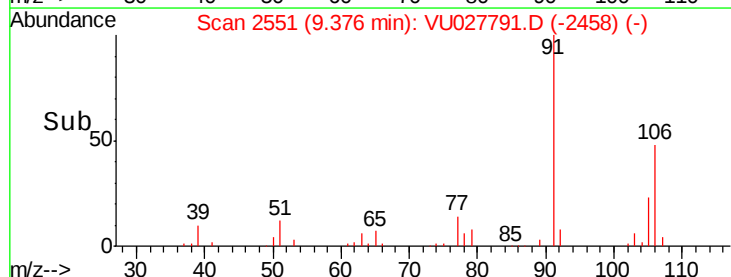
Ion Ratio Lower Upper

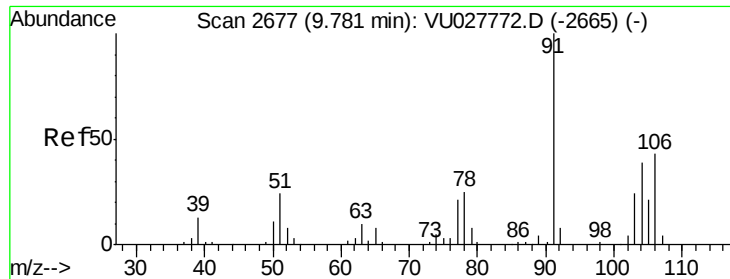
106 100

91 210.3 154.1 286.3



Abundance Ion 106.15 (105.85 to 106.85): VU027791.D (-2458) (-)





#54

o-xylene

Concen: 4.984 ug/L

RT: 9.78 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

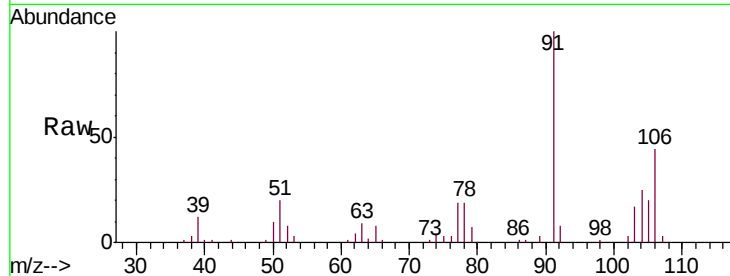
VSTD00502

Tgt Ion:106 Resp: 27391

Ion Ratio Lower Upper

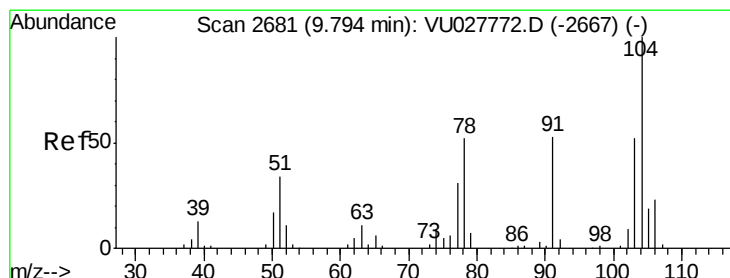
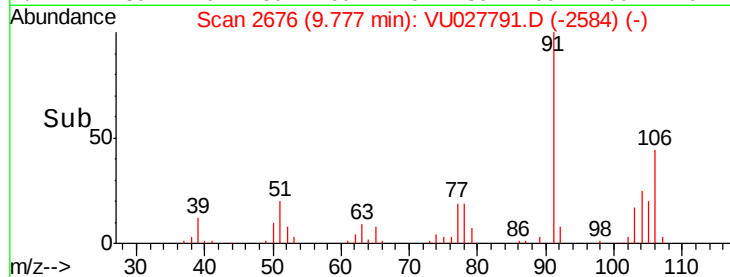
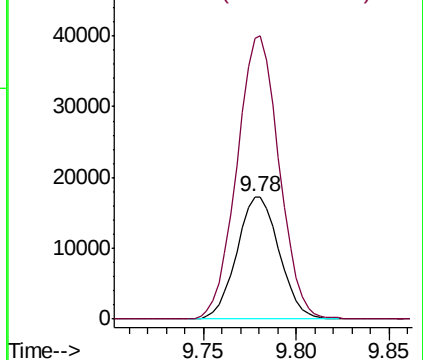
106 100

91 229.7 161.3 299.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 4.952 ug/L

RT: 9.79 min Scan# 2681

Delta R.T. -0.00 min

Lab File: VU027791.D

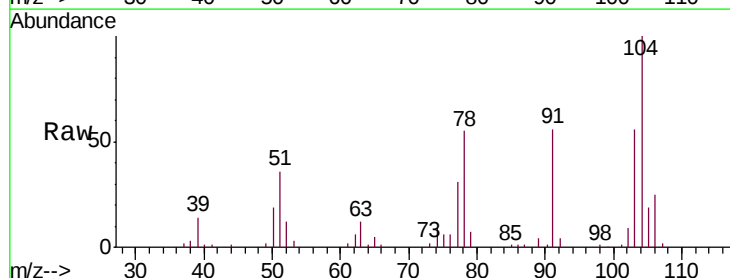
Acq: 24 Oct 2018 17:24

Tgt Ion:104 Resp: 46099

Ion Ratio Lower Upper

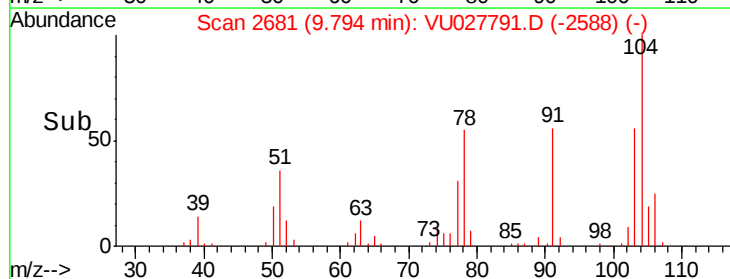
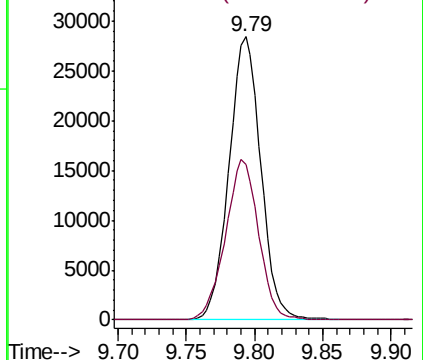
104 100

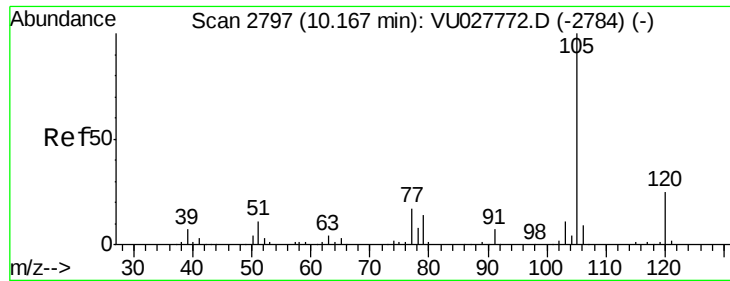
78 55.0 36.3 67.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.003 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

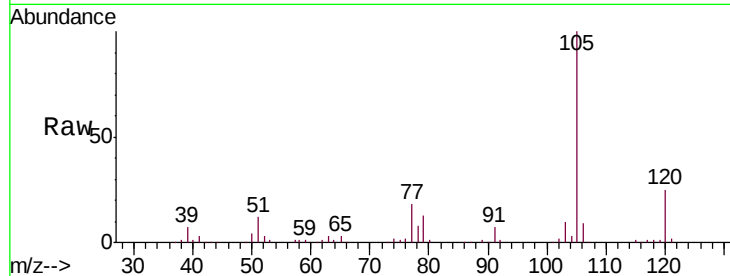
Tgt Ion: 105 Resp: 76140

Ion Ratio Lower Upper

105 100

120 24.7 19.9 29.9

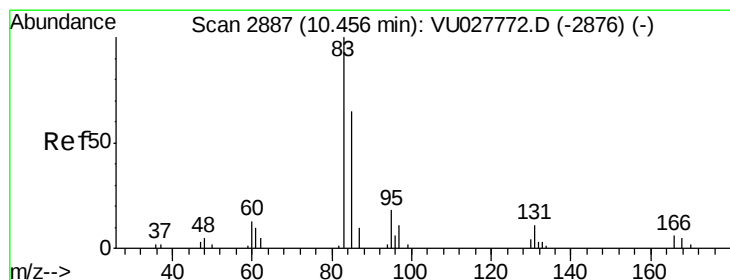
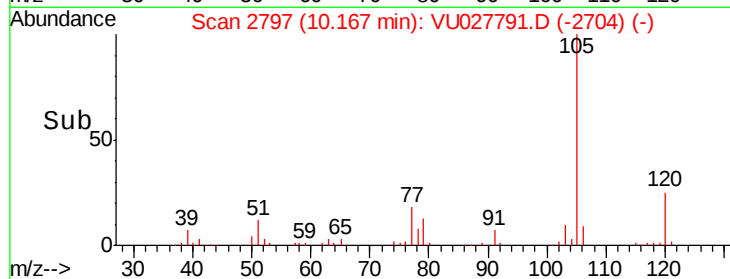
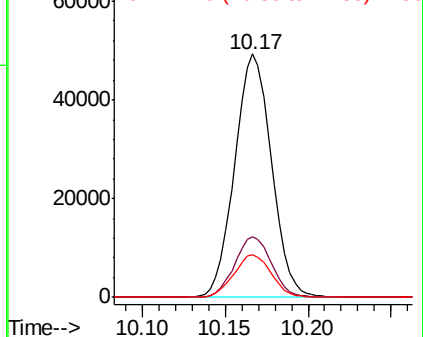
77 17.8 13.7 20.5



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: 5.092 ug/L

RT: 10.46 min Scan# 2888

Delta R.T. 0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

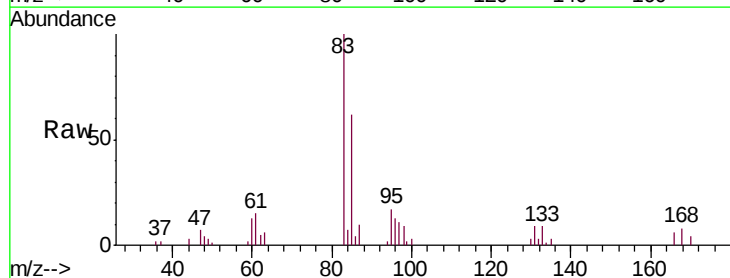
Tgt Ion: 83 Resp: 15096

Ion Ratio Lower Upper

83 100

85 62.2 45.5 84.5

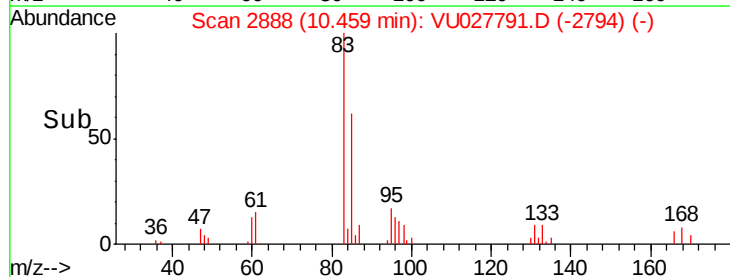
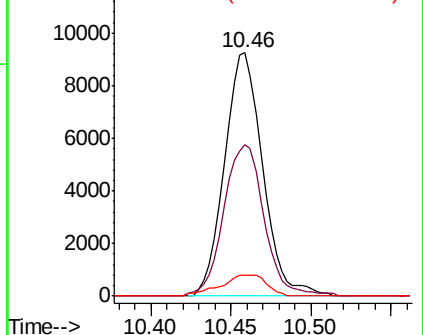
131 8.6 8.8 13.2#

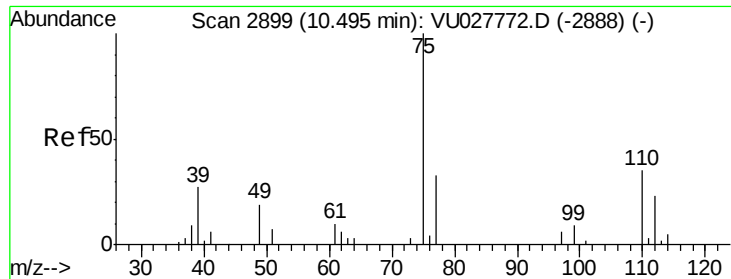


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.074 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

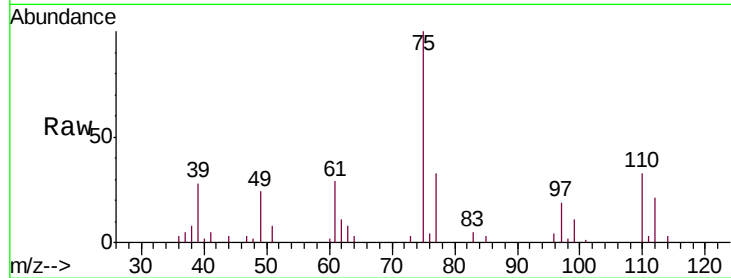
VSTD00502

Tgt Ion: 75 Resp: 11930

Ion Ratio Lower Upper

75 100

77 30.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU027772.D (-2888) (-)

Ion 77.00 (76.70 to 77.70): VU027772.D (-2888) (-)

10.49

8000

6000

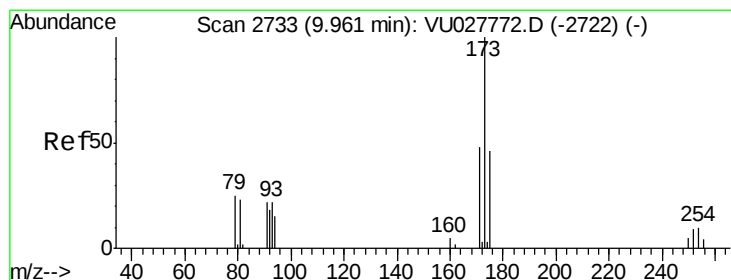
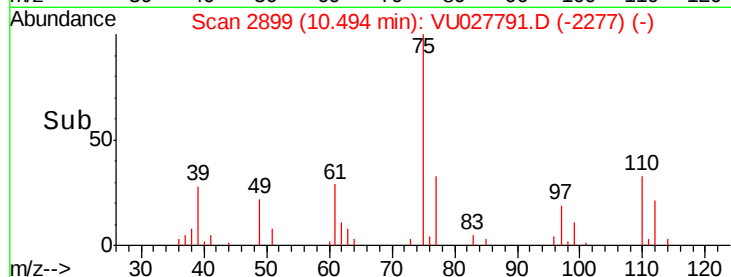
4000

2000

0

10.45 10.50 10.55

Time-->



#61

Bromoform

Concen: 4.654 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

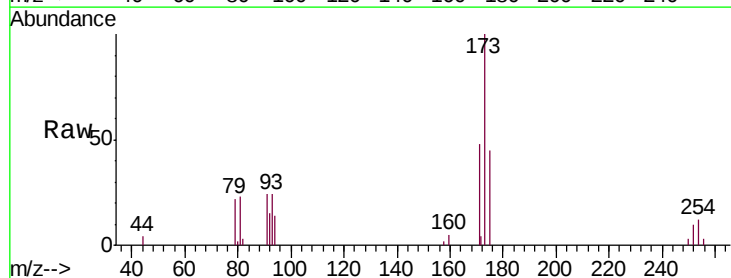
Tgt Ion: 173 Resp: 7701

Ion Ratio Lower Upper

173 100

175 47.4 37.7 56.5

254 9.7 7.2 10.8



Abundance Ion 172.90 (172.60 to 173.60): VU027772.D (-2722) (-)

Ion 174.90 (174.60 to 175.60): VU027772.D (-2722) (-)

Ion 253.75 (253.45 to 254.45): VU027772.D (-2722) (-)

9.96

6000

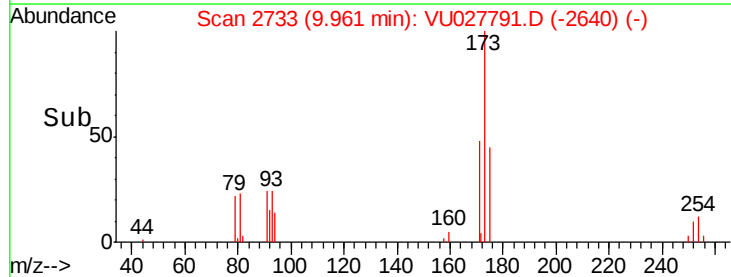
4000

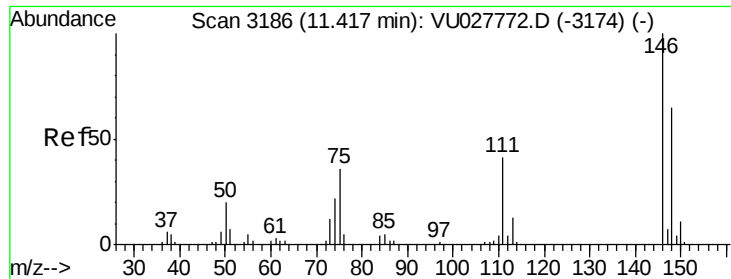
2000

0

9.90 9.95 10.00

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.918 ug/L

RT: 11.42 min Scan# 3186

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

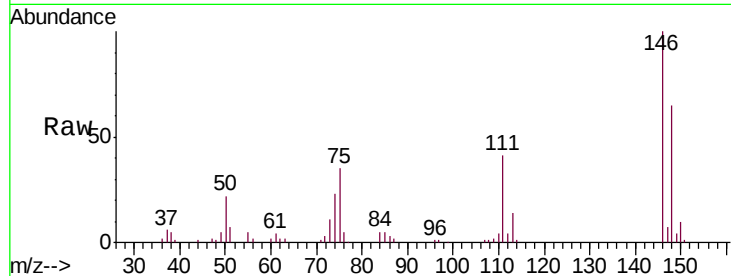
Tgt Ion:146 Resp: 34025

Ion Ratio Lower Upper

146 100

111 40.8 28.6 53.0

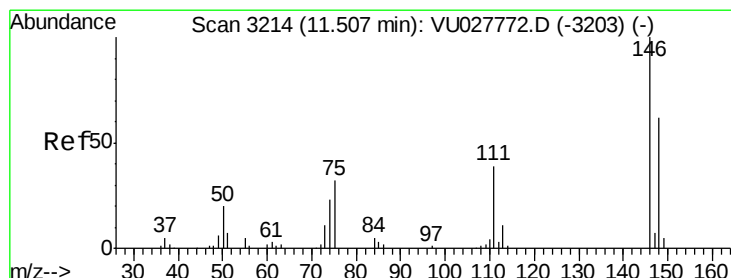
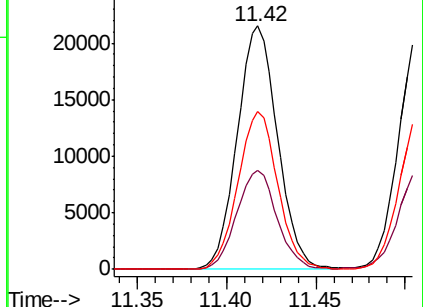
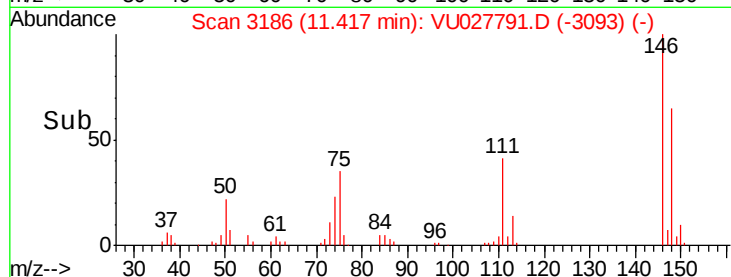
148 64.7 45.1 83.9



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: 4.794 ug/L

RT: 11.51 min Scan# 3214

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

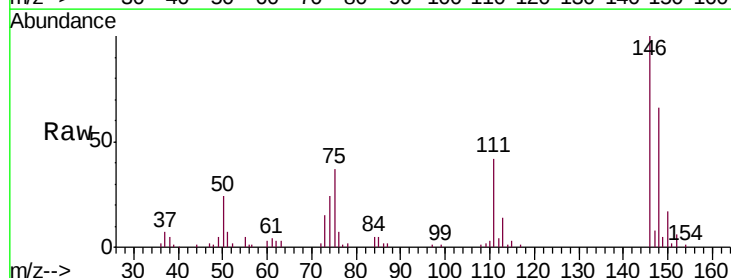
Tgt Ion:146 Resp: 33489

Ion Ratio Lower Upper

146 100

111 41.8 27.6 51.4

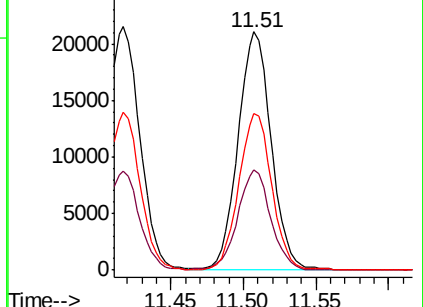
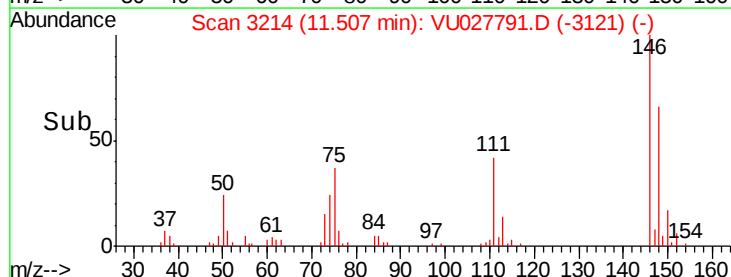
148 65.9 43.3 80.3

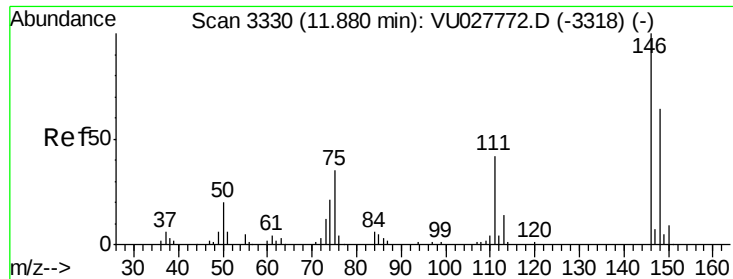


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.932 ug/L

RT: 11.88 min Scan# 3330

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

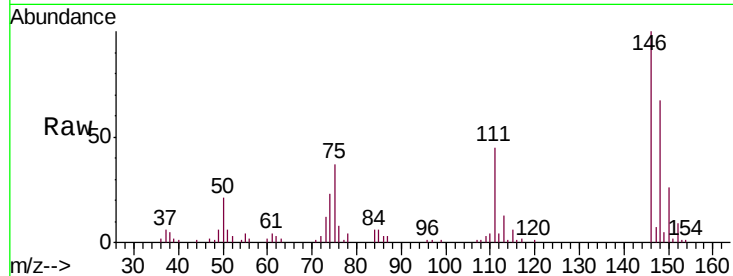
Tgt Ion:146 Resp: 32086

Ion Ratio Lower Upper

146 100

111 44.5 33.7 50.5

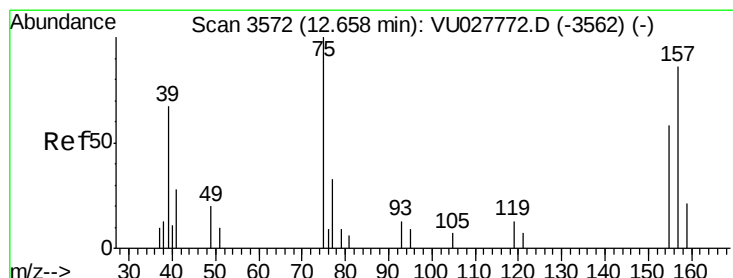
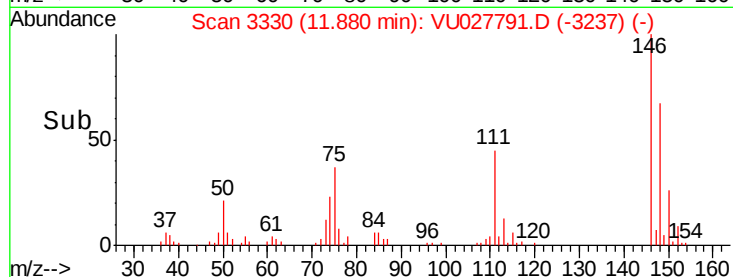
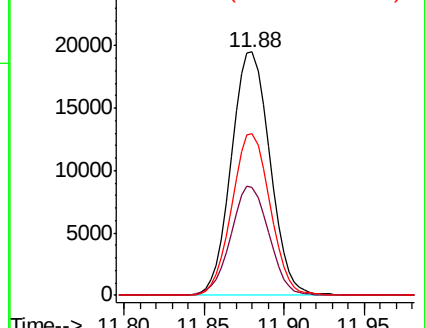
148 66.7 50.8 76.2



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: 5.053 ug/L

RT: 12.66 min Scan# 3571

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

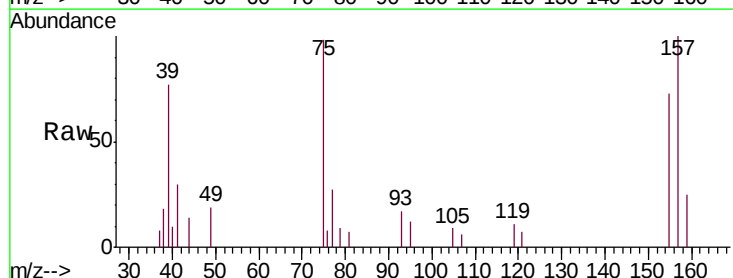
Tgt Ion: 75 Resp: 2618

Ion Ratio Lower Upper

75 100

155 74.6 46.2 69.2#

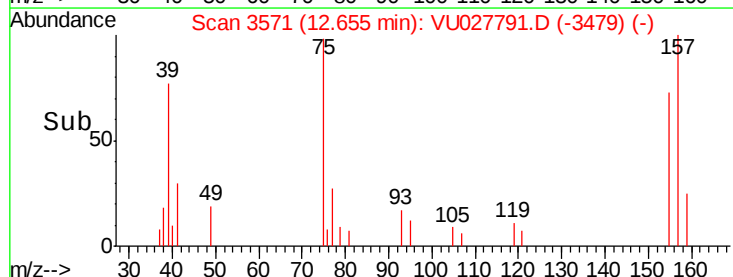
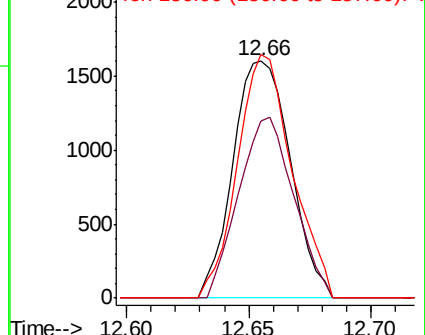
157 102.5 68.9 103.3

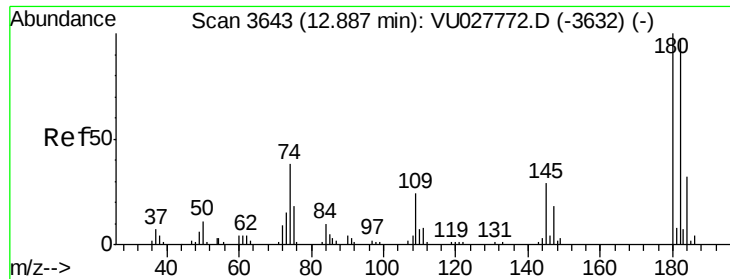


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

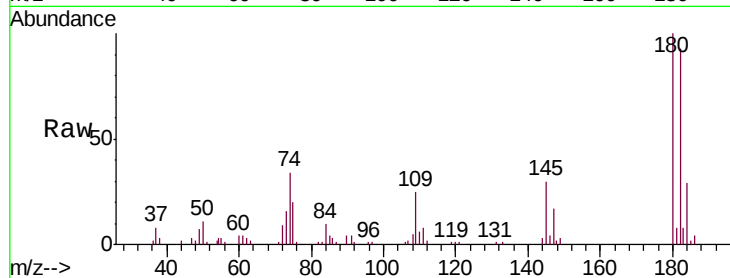




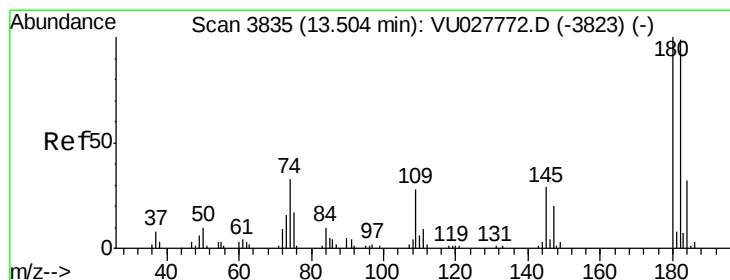
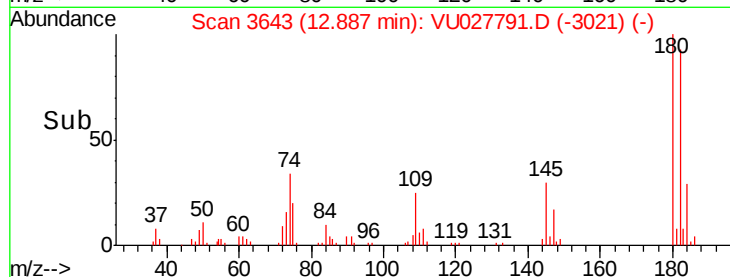
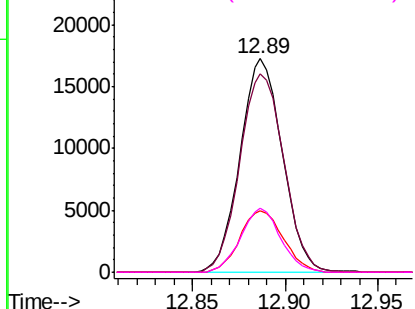
#67
 1,3,5-Trichlorobenzene
 Concen: 4.939 ug/L
 RT: 12.89 min Scan# 3643
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:180 Resp: 27408
 Ion Ratio Lower Upper
 180 100
 182 96.1 78.9 118.3
 184 29.4 24.6 37.0
 145 28.3 23.4 35.0

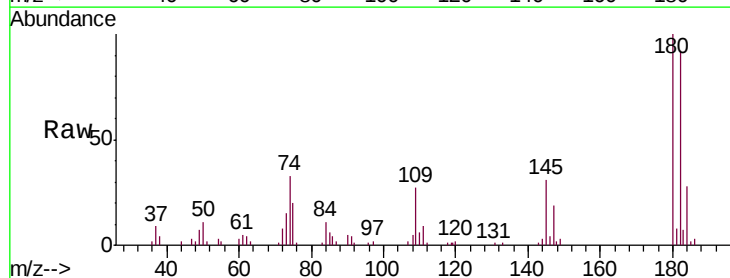


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

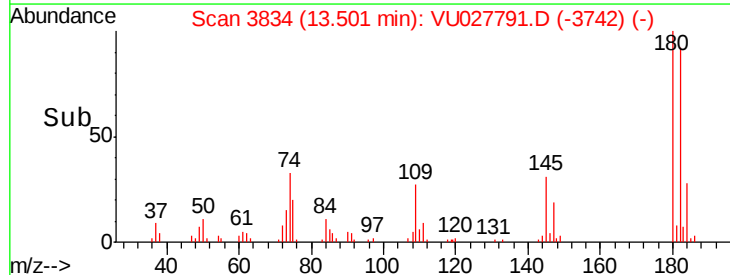
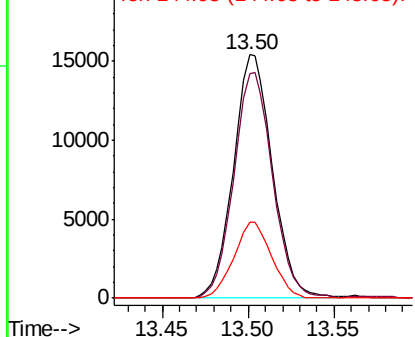


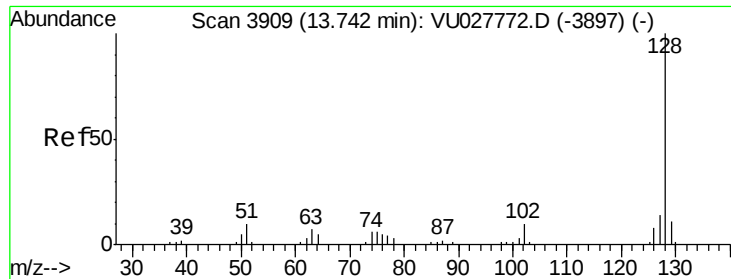
#68
 1,2,4-trichlorobenzene
 Concen: 5.034 ug/L
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU027791.D
 Acq: 24 Oct 2018 17:24

Tgt Ion:180 Resp: 24265
 Ion Ratio Lower Upper
 180 100
 182 92.2 77.6 116.4
 145 30.1 23.7 35.5



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: 5.092 ug/L

RT: 13.74 min Scan# 3909

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

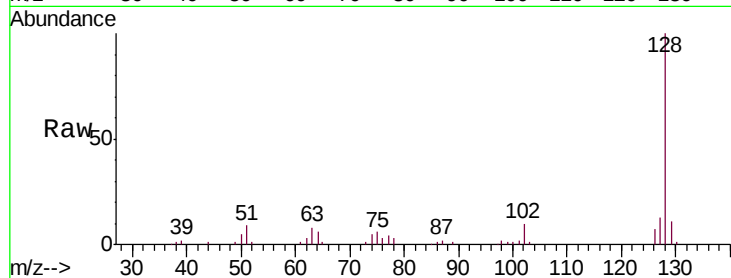
Tgt Ion:128 Resp: 39866

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

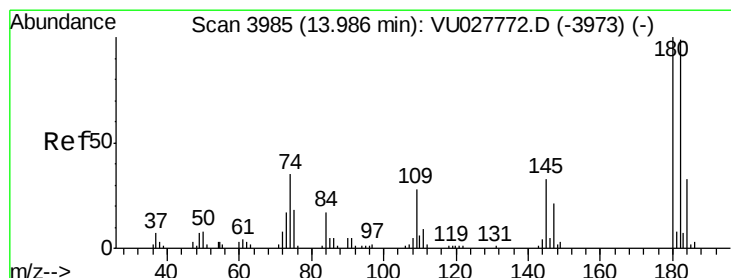
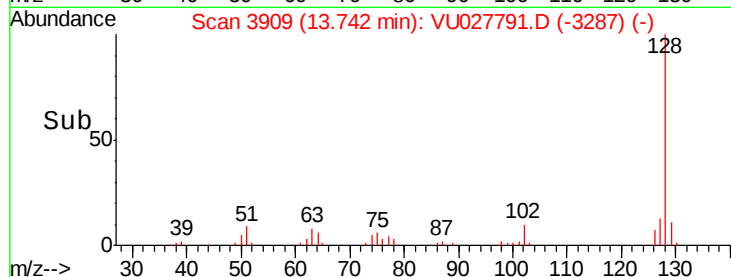
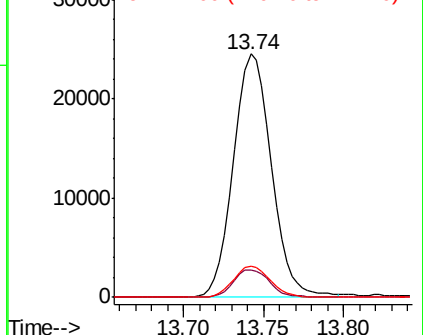
127 12.4 10.7 16.1



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: 5.085 ug/L

RT: 13.99 min Scan# 3985

Delta R.T. -0.00 min

Lab File: VU027791.D

Acq: 24 Oct 2018 17:24

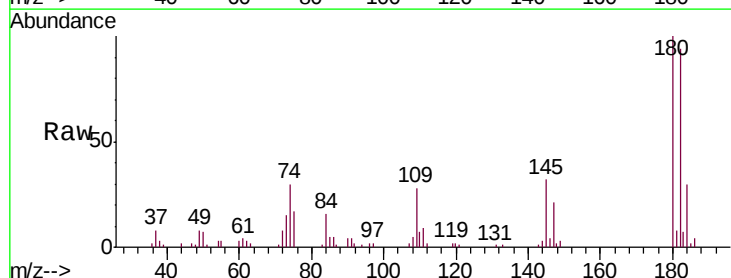
Tgt Ion:180 Resp: 22585

Ion Ratio Lower Upper

180 100

182 94.3 76.9 115.3

145 30.9 24.6 37.0



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

