

Data File : VU034890.D
Acq On : 01 Oct 2019 15:39
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Quant Time: Oct 02 01:38:04 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM100119WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 01 03:53:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	344138	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	332004	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.46	152	155663	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	112002	46.44	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.88%
7) Chloroethane-d5	1.67	69	97521	48.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.26%
11) 1,1-Dichloroethene-d2	2.26	63	202149	47.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.02%
21) 2-Butanone-d5	4.15	46	239428	101.73	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	101.73%
24) Chloroform-d	4.62	84	234239	50.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.10%
26) 1,2-Dichloroethane-d4	5.29	65	166802	48.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.06%
32) Benzene-d6	5.32	84	455950	50.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.92%
36) 1,2-Dichloropropane-d6	6.31	67	157882	50.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.62%
41) Toluene-d8	7.54	98	430067	50.57	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.14%
43) trans-1,3-Dichloropropene-	7.83	79	71894	52.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.48%
47) 2-Hexanone-d5	8.29	63	156897	105.49	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.49%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	226883	51.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	102.24%
64) 1,2-Dichlorobenzene-d4	11.84	152	157306	50.79	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.58%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	81915	41.264 ug/L	98
3) Chloromethane	1.32	50	62253	36.451 ug/L	98
5) Vinyl chloride	1.40	62	67437	39.459 ug/L	98
6) Bromomethane	1.62	94	35397	40.694 ug/L	98
8) Chloroethane	1.69	64	44860	40.785 ug/L	100
9) Trichlorofluoromethane	1.87	101	116571	45.022 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	79395	48.839 ug/L	100
12) 1,1-Dichloroethene	2.27	96	55643	43.111 ug/L	100
13) Acetone	2.31	43	231645	123.835 ug/L	99
14) Carbon disulfide	2.46	76	66064	31.927 ug/L	99
15) Methyl Acetate	2.60	43	142675	47.782 ug/L	98
16) Methylene chloride	2.68	84	83800	44.450 ug/L	94
17) trans-1,2-Dichloroethene	2.96	96	56569	42.706 ug/L	96
18) Methyl tert-butyl Ether	2.98	73	365304	49.120 ug/L	100
19) 1,1-Dichloroethane	3.42	63	183782	46.784 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	91693	47.064 ug/L	93
22) 2-Butanone	4.23	43	265507	109.281 ug/L	98

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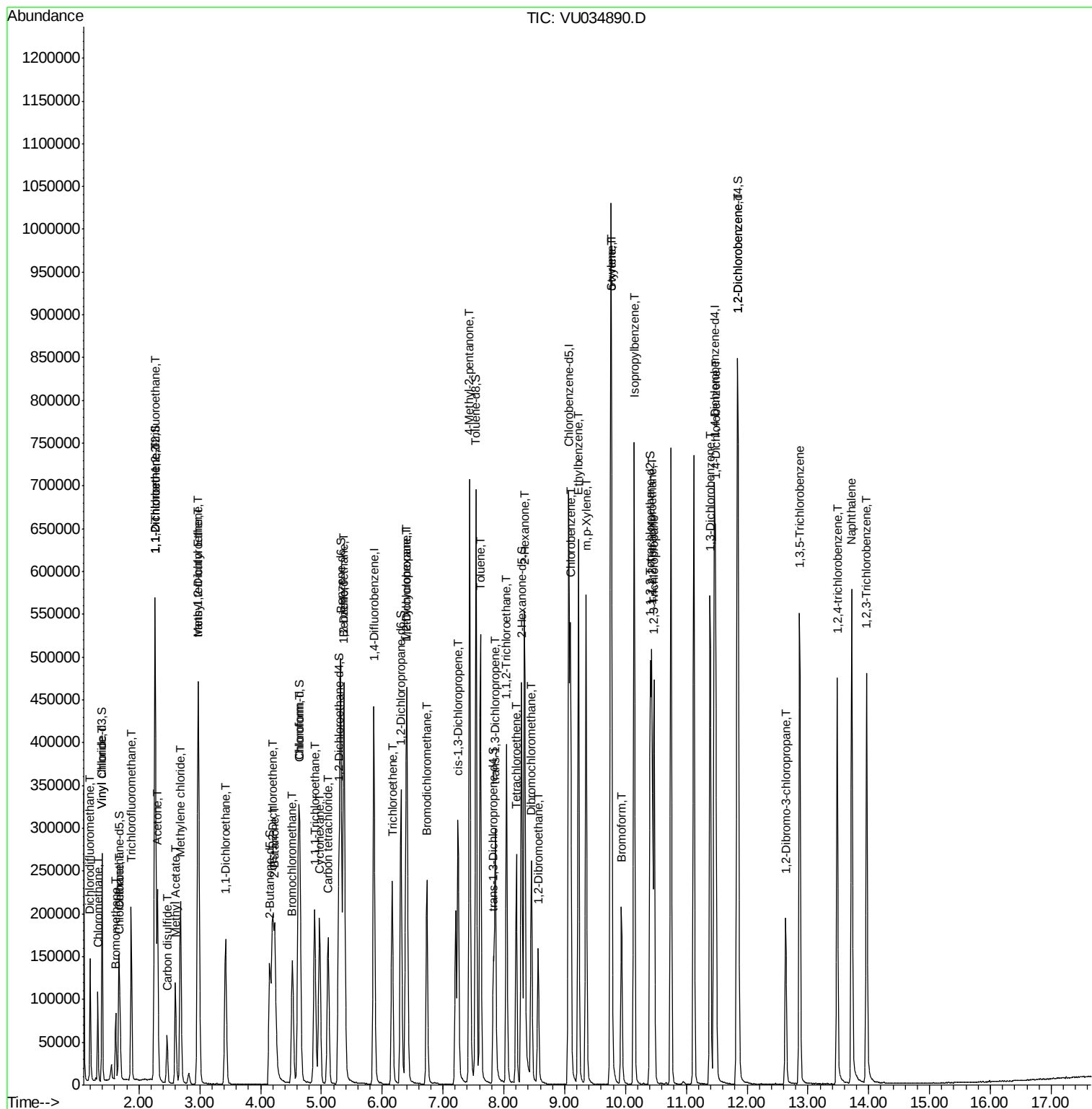
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	43385	46.489	ug/L	95
25) Chloroform	4.65	83	206035	47.870	ug/L	99
27) 1,2-Dichloroethane	5.38	62	158985	47.464	ug/L	100
29) Cyclohexane	4.97	56	101325	42.071	ug/L	100
30) 1,1,1-Trichloroethane	4.89	97	152637	48.044	ug/L	100
31) Carbon tetrachloride	5.11	117	116696	47.673	ug/L	99
33) Benzene	5.37	78	335061	47.317	ug/L	100
34) Trichloroethene	6.16	95	81734	46.261	ug/L	97
35) Methylcyclohexane	6.39	83	98385	44.305	ug/L	99
37) 1,2-Dichloropropane	6.41	63	117410	49.036	ug/L	100
38) Bromodichloromethane	6.73	83	155347	50.709	ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	172691	51.195	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	495230	101.988	ug/L	100
42) Toluene	7.61	91	361262	47.418	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	156937	50.990	ug/L	96
45) 1,1,2-Trichloroethane	8.04	97	116866	52.107	ug/L	97
46) Tetrachloroethene	8.21	164	53400	46.354	ug/L	98
48) 2-Hexanone	8.34	43	383179	103.988	ug/L	100
49) Dibromochloromethane	8.45	129	121702	51.968	ug/L	100
50) 1,2-Dibromoethane	8.57	107	102736	49.205	ug/L	97
51) Chlorobenzene	9.10	112	251607	48.734	ug/L	97
52) Ethylbenzene	9.23	91	431152	48.208	ug/L	99
53) m,p-Xylene	9.35	106	147413	47.174	ug/L	97
54) o-xylene	9.76	106	161851	49.111	ug/L	99
55) Styrene	9.77	104	290196	50.169	ug/L	100
56) Isopropylbenzene	10.14	105	459512	49.909	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.43	83	236261	52.696	ug/L	99
59) 1,2,3-Trichloropropane	10.47	75	183465	50.842	ug/L	99
61) Bromoform	9.94	173	89019	51.118	ug/L	99
62) 1,3-Dichlorobenzene	11.39	146	214978	51.105	ug/L	99
63) 1,4-Dichlorobenzene	11.48	146	214953	50.791	ug/L	96
65) 1,2-Dichlorobenzene	11.85	146	228579	50.610	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.63	75	50112	52.979	ug/L	97
67) 1,3,5-Trichlorobenzene	12.86	180	160640	56.100	ug/L	99
68) 1,2,4-trichlorobenzene	13.48	180	134610	58.603	ug/L	97
69) Naphthalene	13.72	128	459898	61.100	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	139803	57.207	ug/L	99

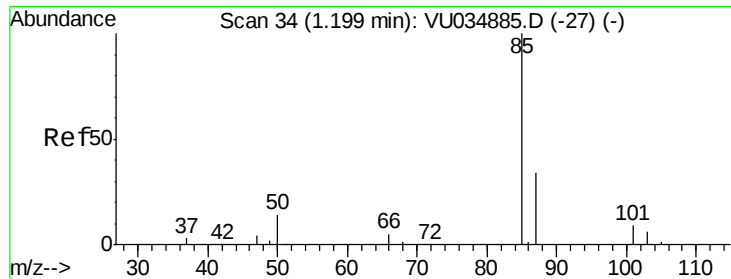
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 41.264 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

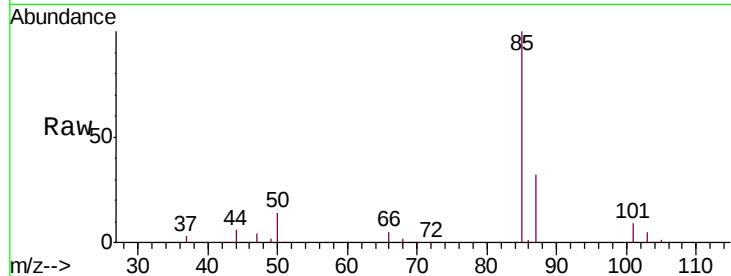
VSTD05050

Tgt Ion: 85 Resp: 81915

Ion Ratio Lower Upper

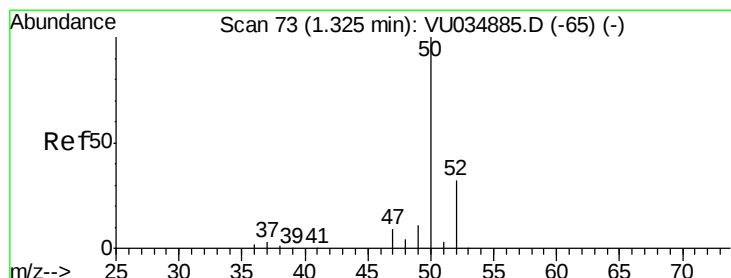
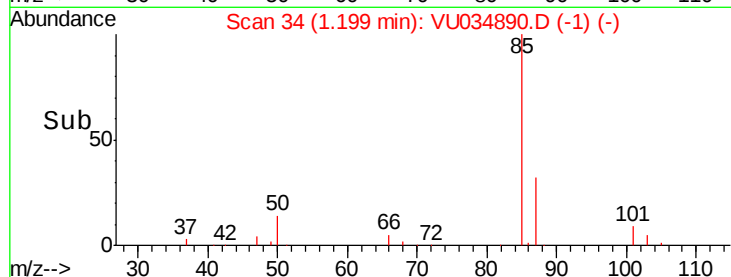
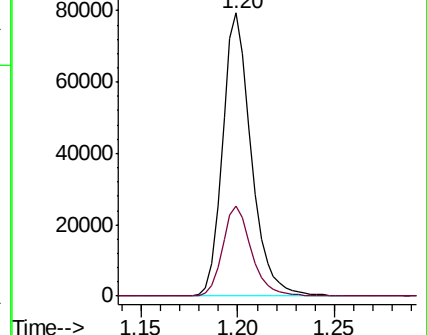
85 100

87 32.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU034885.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU034885.D (-27) (-)



#3

Chloromethane

Concen: 36.451 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU034890.D

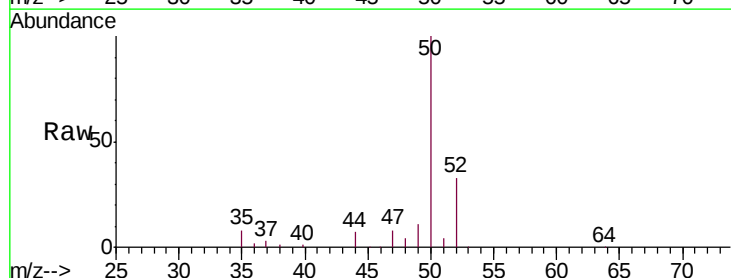
Acq: 01 Oct 2019 15:39

Tgt Ion: 50 Resp: 62253

Ion Ratio Lower Upper

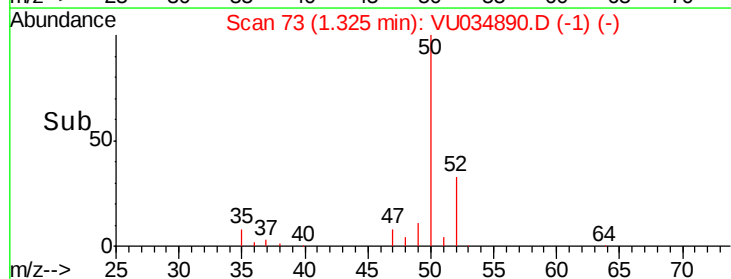
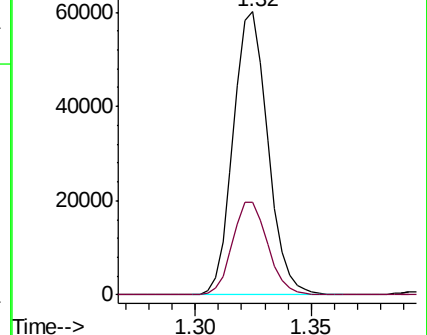
50 100

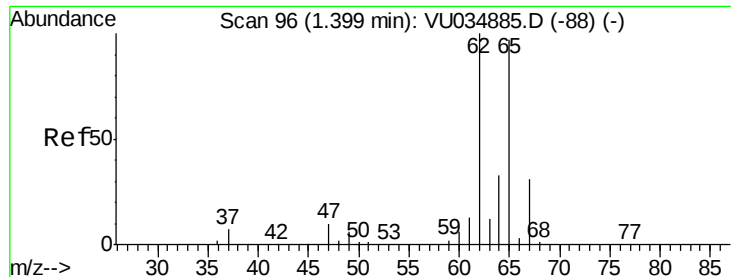
52 32.8 22.4 41.6



Abundance Ion 50.00 (49.70 to 50.70): VU034885.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU034885.D (-65) (-)





#5

Vinyl chloride

Concen: 39.459 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

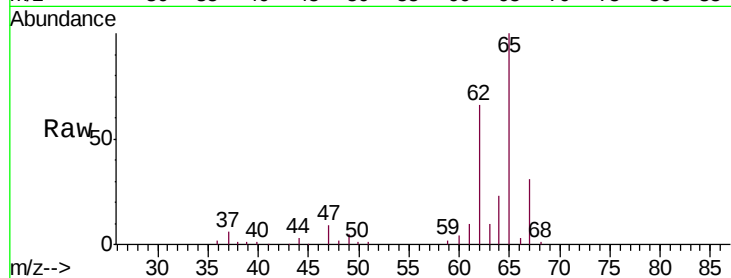
VSTD05050

Tgt Ion: 62 Resp: 67437

Ion Ratio Lower Upper

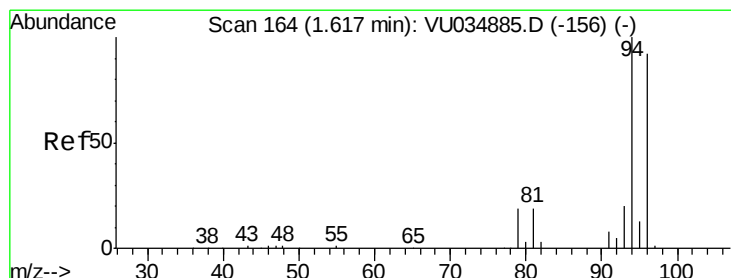
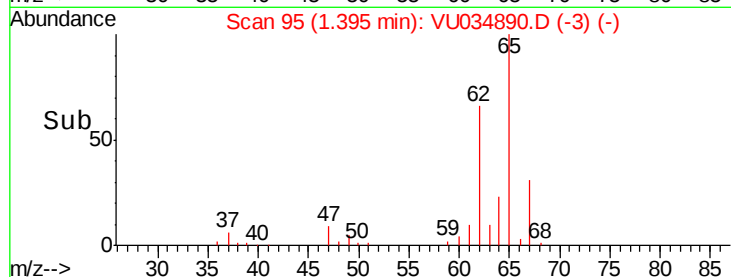
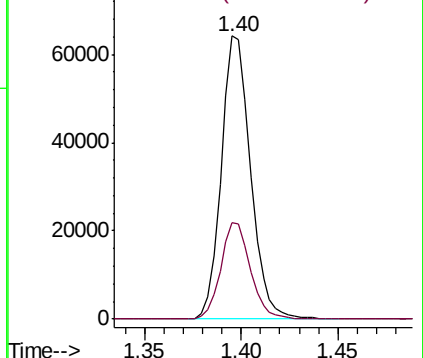
62 100

64 34.2 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 40.694 ug/L

RT: 1.62 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU034890.D

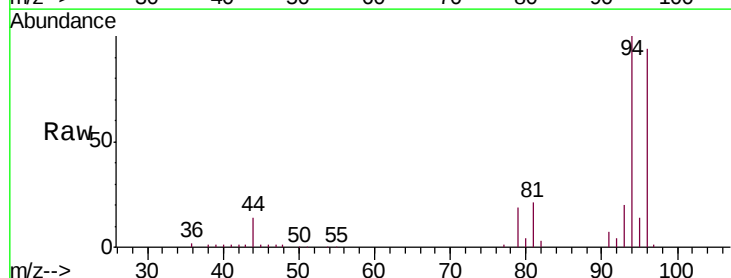
Acq: 01 Oct 2019 15:39

Tgt Ion: 94 Resp: 35397

Ion Ratio Lower Upper

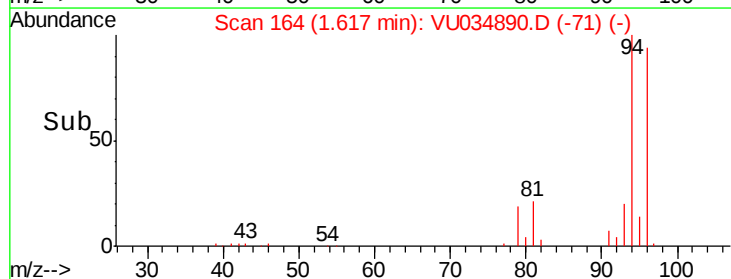
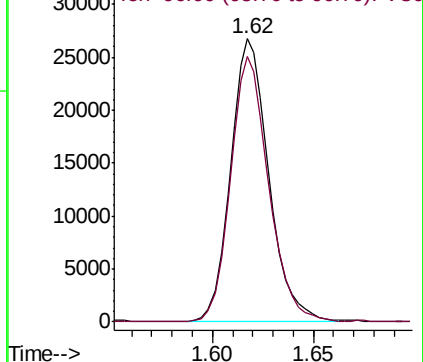
94 100

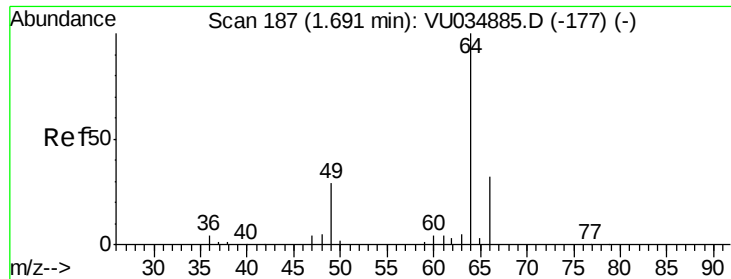
96 93.9 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 40.785 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

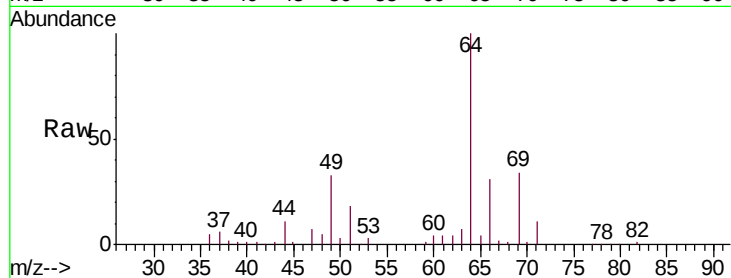
VSTD05050

Tgt Ion: 64 Resp: 44860

Ion Ratio Lower Upper

64 100

66 31.3 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU034885.D (-177) (-)

Ion 66.00 (65.70 to 66.70): VU034885.D (-177) (-)

1.69

40000

30000

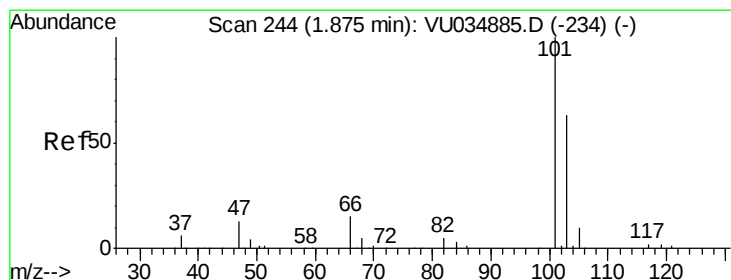
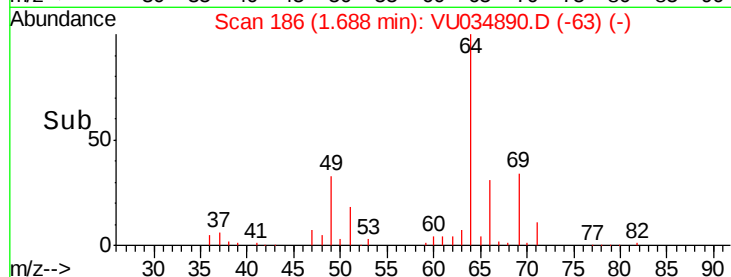
20000

10000

0

1.65 1.70 1.75

Time-->



#9

Trichlorofluoromethane

Concen: 45.022 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU034890.D

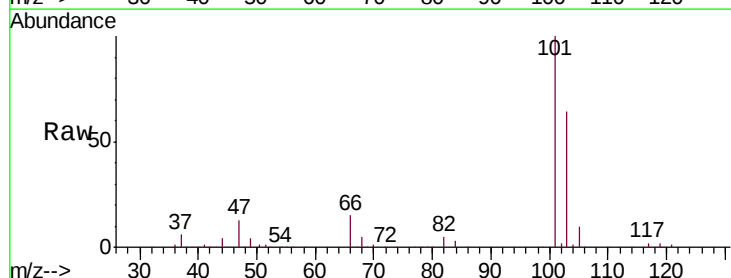
Acq: 01 Oct 2019 15:39

Tgt Ion: 101 Resp: 116571

Ion Ratio Lower Upper

101 100

103 64.1 51.2 76.8



Abundance Ion 101.00 (100.70 to 101.70): VU034885.D (-234) (-)

Ion 103.00 (102.70 to 103.70): VU034885.D (-234) (-)

1.87

100000

80000

60000

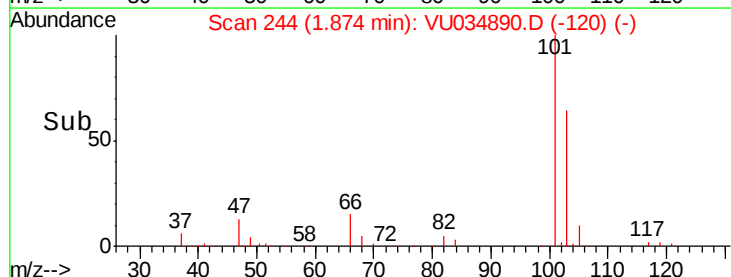
40000

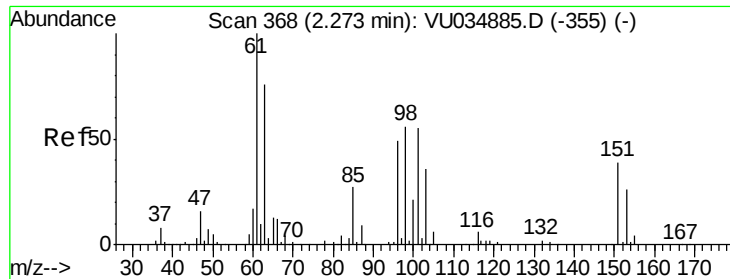
20000

0

1.80 1.85 1.90 1.95

Time-->





#10

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

Concen: 48.839 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

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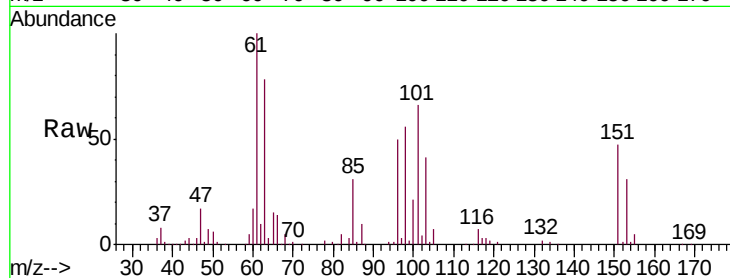
Tgt Ion:101 Resp: 79395

Ion Ratio Lower Upper

101 100

85 46.6 37.1 55.7

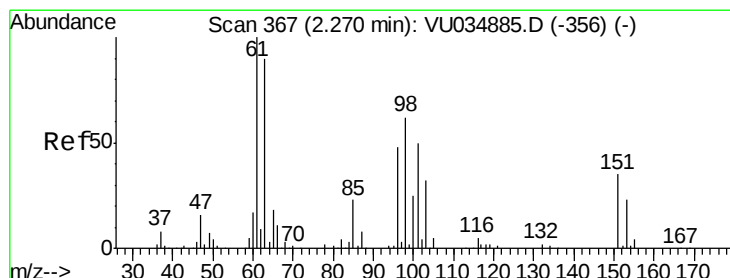
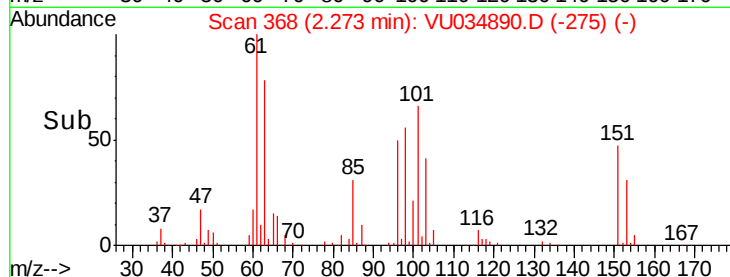
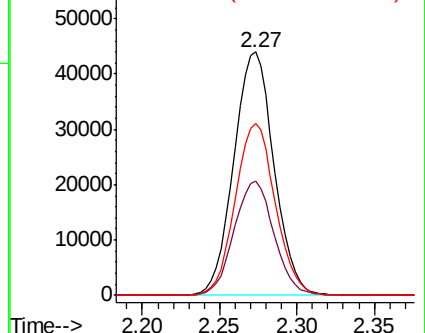
151 70.1 56.0 84.0



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: 43.111 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

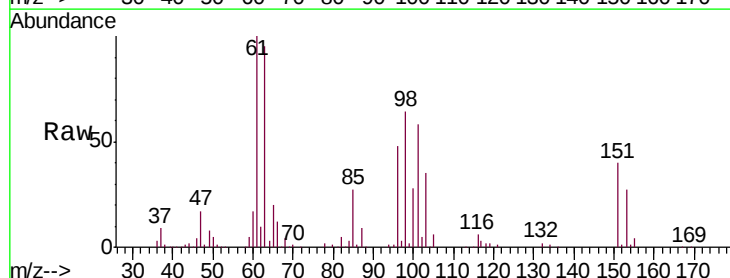
Tgt Ion: 96 Resp: 55643

Ion Ratio Lower Upper

96 100

61 210.5 147.0 273.0

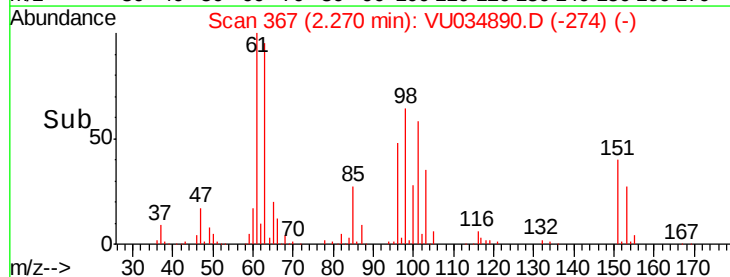
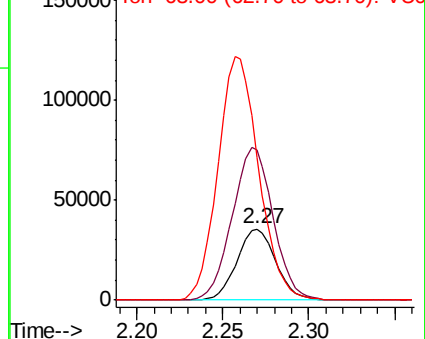
63 200.4 140.5 260.9

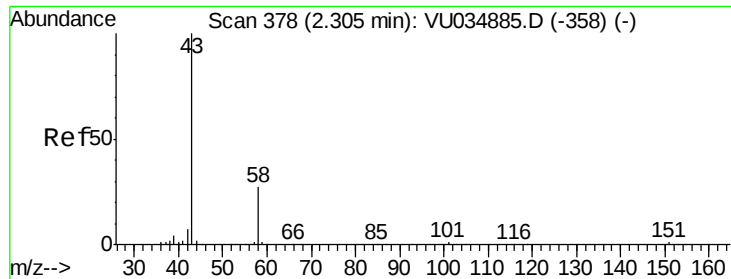


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 123.835 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

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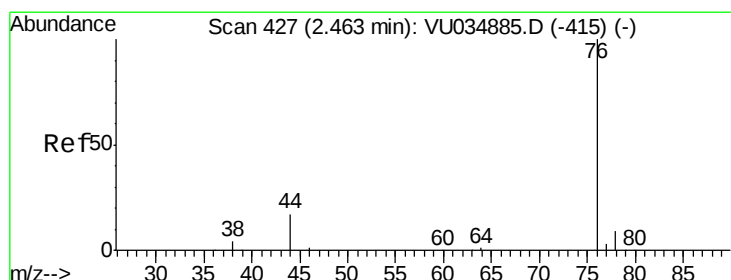
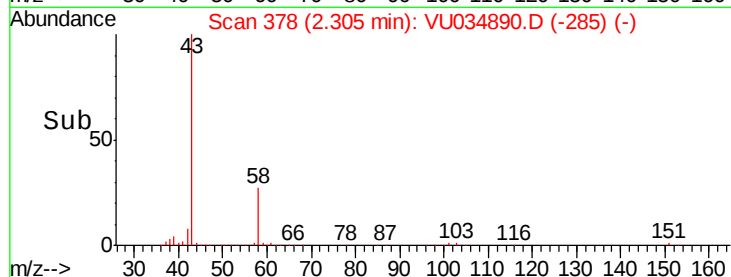
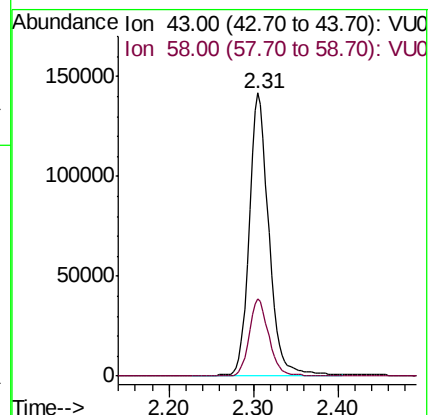
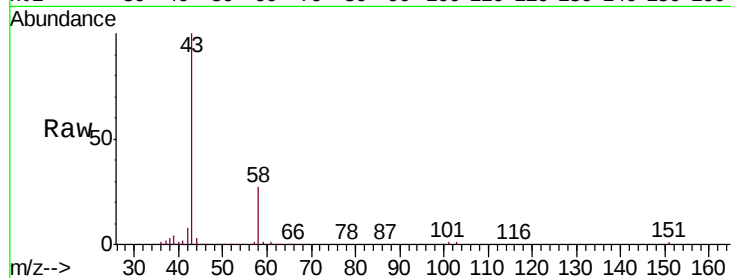
VSTD05050

Tgt Ion: 43 Resp: 231645

Ion Ratio Lower Upper

43 100

58 26.7 0.0 52.6



#14

Carbon disulfide

Concen: 31.927 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU034890.D

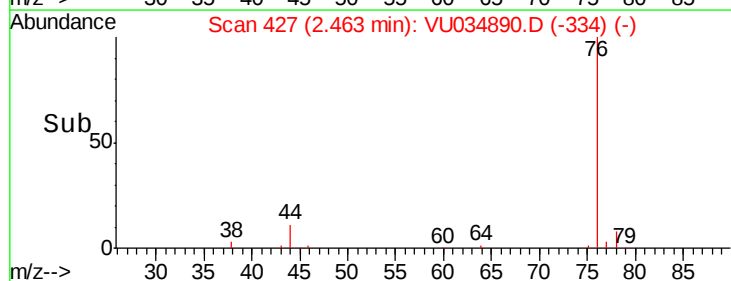
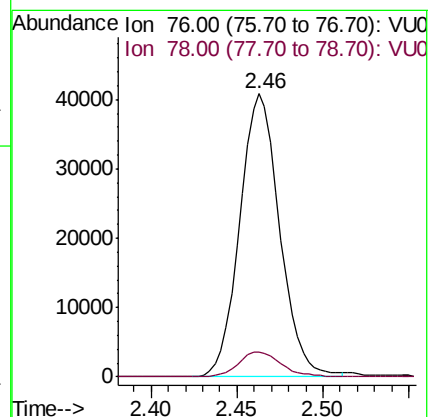
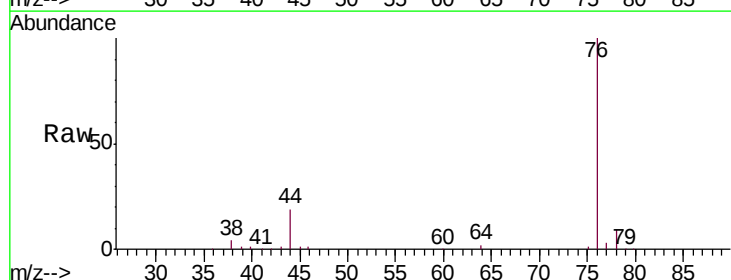
Acq: 01 Oct 2019 15:39

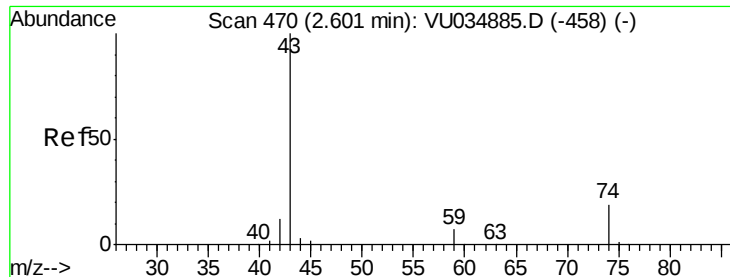
Tgt Ion: 76 Resp: 66064

Ion Ratio Lower Upper

76 100

78 8.7 7.3 10.9





#15

Methyl Acetate

Concen: 47.782 ug/L

RT: 2.60 min Scan# 469

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

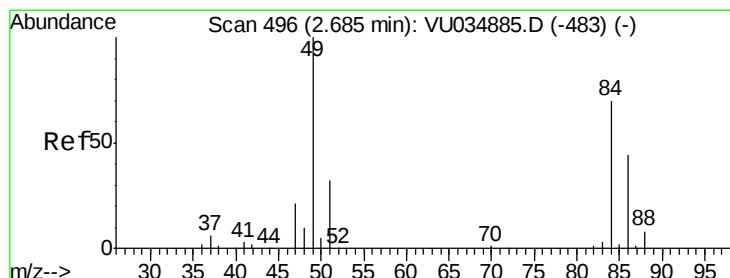
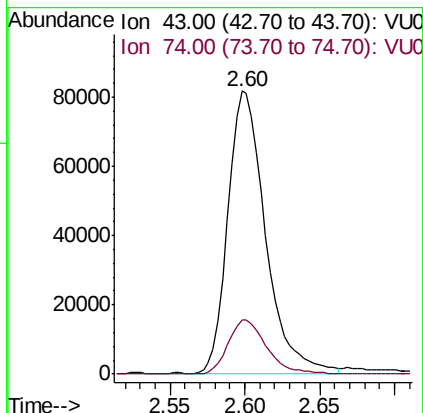
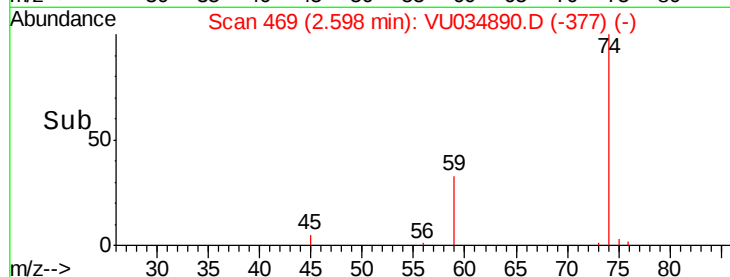
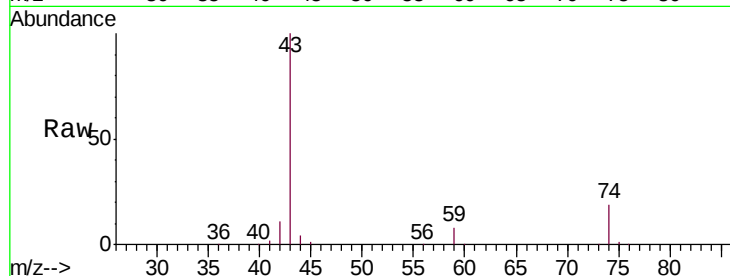
VSTD05050

Tgt Ion: 43 Resp: 142675

Ion Ratio Lower Upper

43 100

74 19.8 15.3 22.9



#16

Methylene chloride

Concen: 44.450 ug/L

RT: 2.68 min Scan# 496

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

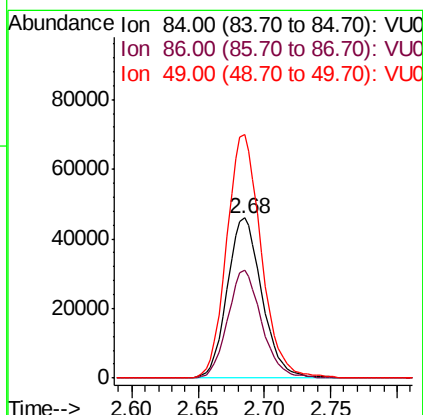
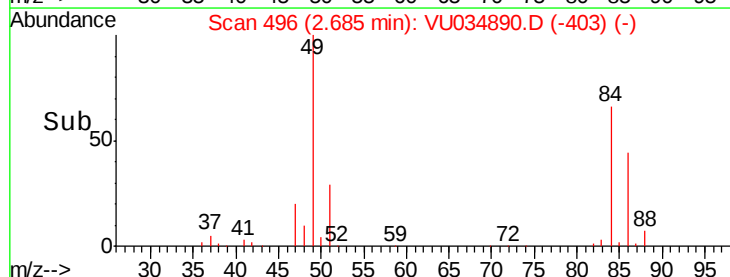
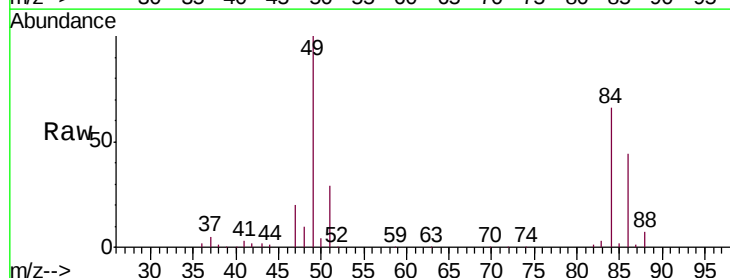
Tgt Ion: 84 Resp: 83800

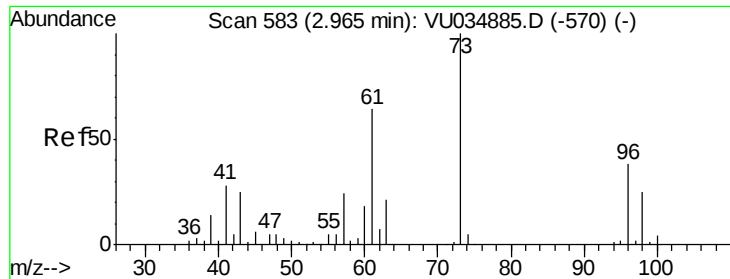
Ion Ratio Lower Upper

84 100

86 67.1 44.7 82.9

49 152.0 100.7 186.9

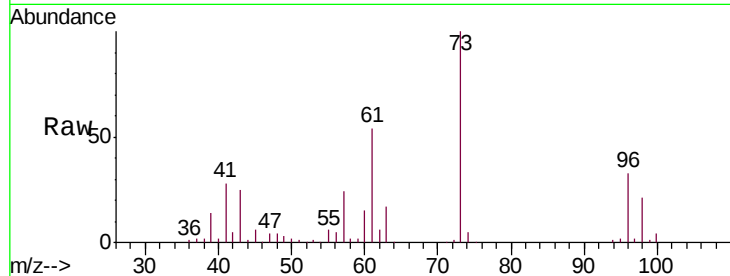




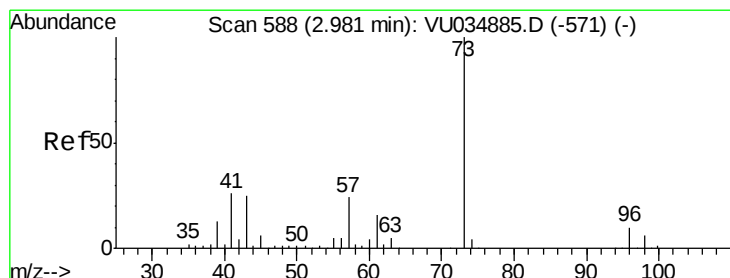
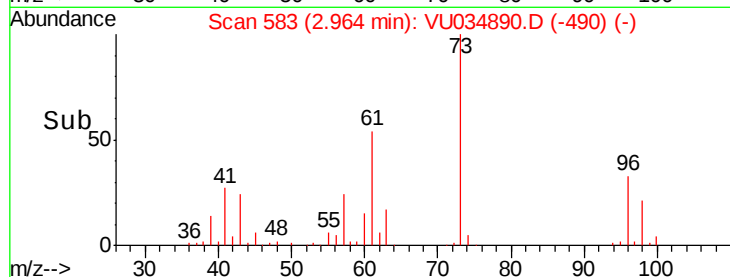
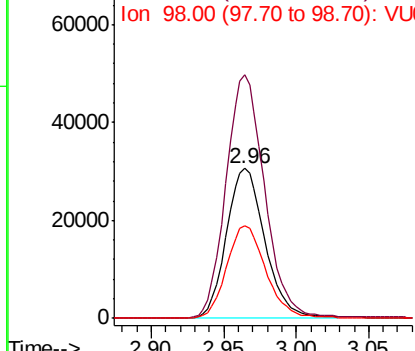
#17
 trans-1,2-Dichloroethene
 Concen: 42.706 ug/L
 RT: 2.96 min Scan# 583
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion: 96 Resp: 56569
 Ion Ratio Lower Upper
 96 100
 61 162.3 117.5 218.1
 98 61.9 45.8 85.0

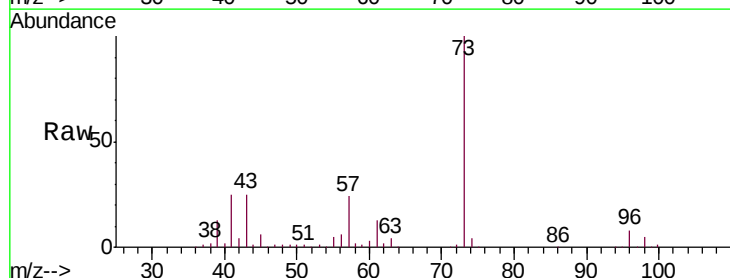


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

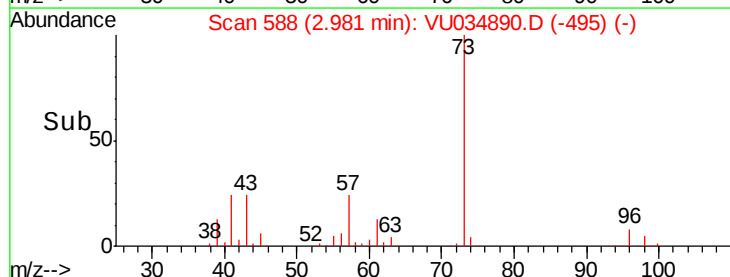
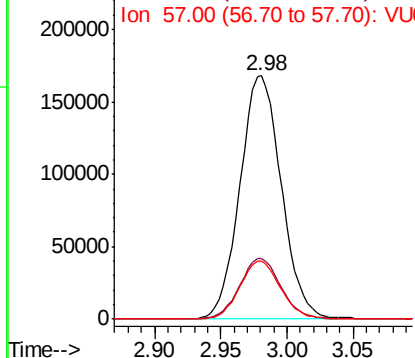


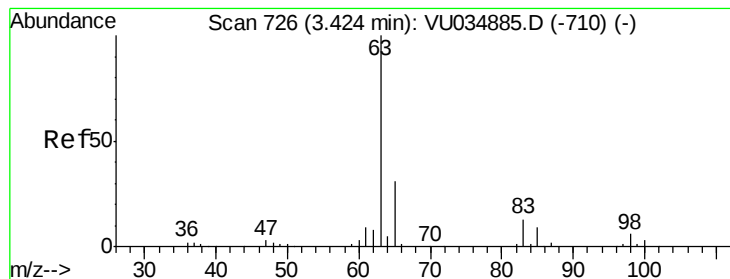
#18
 Methyl tert-butyl Ether
 Concen: 49.120 ug/L
 RT: 2.98 min Scan# 588
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion: 73 Resp: 365304
 Ion Ratio Lower Upper
 73 100
 43 24.7 19.7 29.5
 57 23.4 18.8 28.2



Abundance Ion 73.00 (72.70 to 73.70): VU0
 Ion 43.00 (42.70 to 43.70): VU0
 Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 46.784 ug/L

RT: 3.42 min Scan# 726

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampled :

VSTD05050

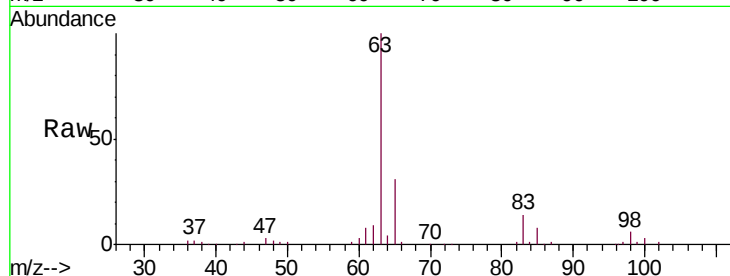
Tgt Ion: 63 Resp: 183782

Ion Ratio Lower Upper

63 100

65 31.1 21.6 40.2

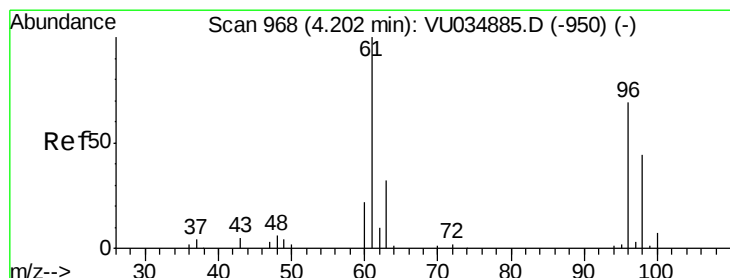
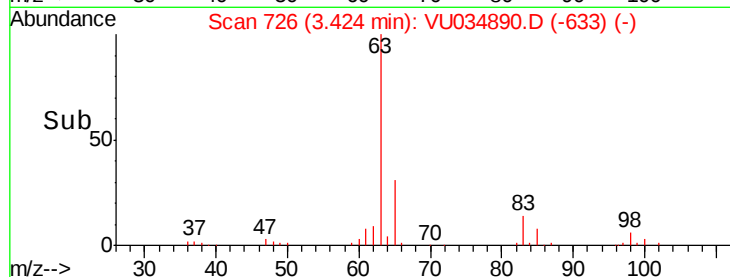
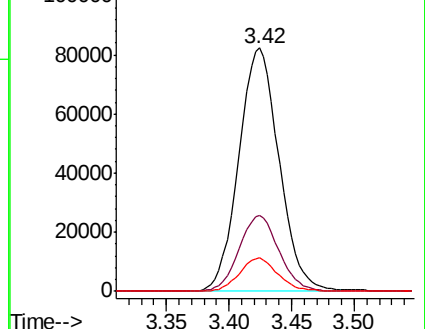
83 13.7 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VU034885.D (-710) (-)

Ion 65.00 (64.70 to 65.70): VU034885.D (-710) (-)

Ion 83.00 (82.70 to 83.70): VU034885.D (-710) (-)



#20

cis-1,2-Dichloroethene

Concen: 47.064 ug/L

RT: 4.20 min Scan# 968

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

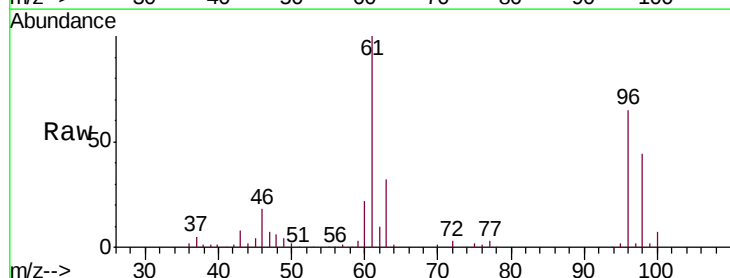
Tgt Ion: 96 Resp: 91693

Ion Ratio Lower Upper

96 100

61 153.3 101.2 188.0

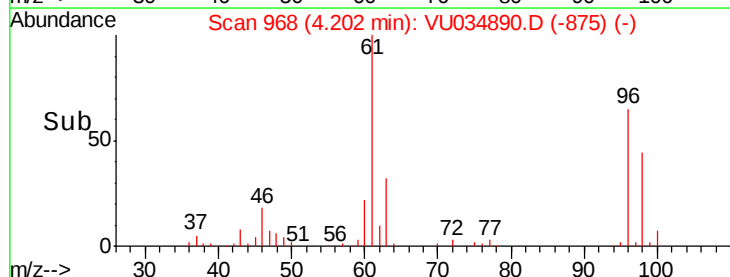
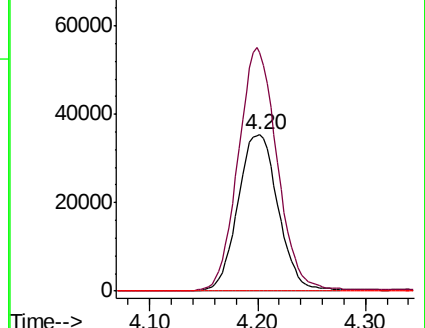
68 0.0 0.0 0.0

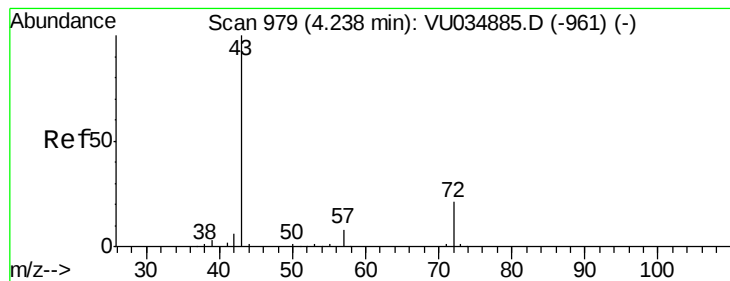


Abundance Ion 96.00 (95.70 to 96.70): VU034885.D (-950) (-)

Ion 61.00 (60.70 to 61.70): VU034885.D (-950) (-)

Ion 68.00 (67.70 to 68.70): VU034885.D (-950) (-)





#22

2-Butanone

Concen: 109.281 ug/L

RT: 4.23 min Scan# 978

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

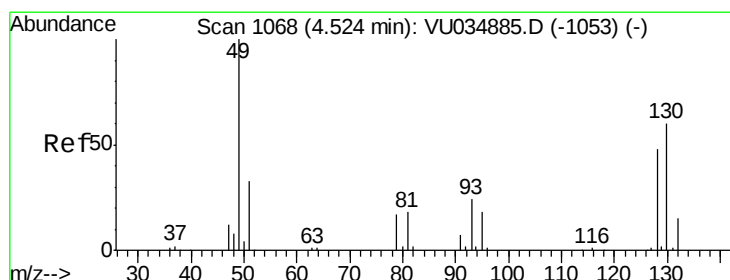
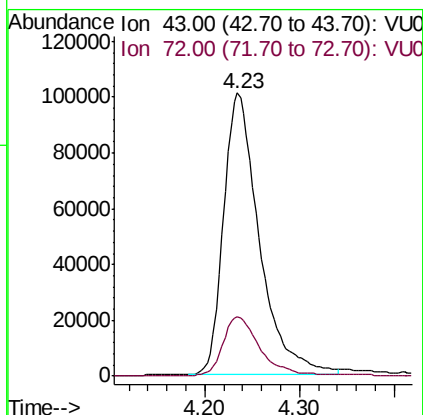
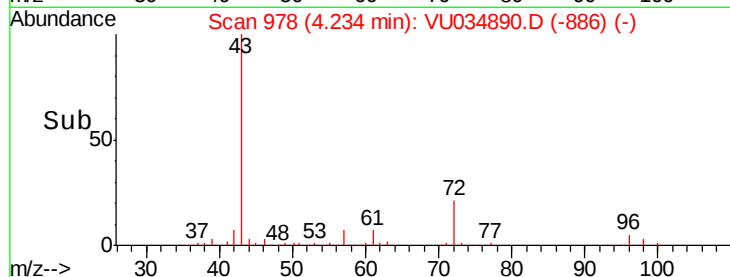
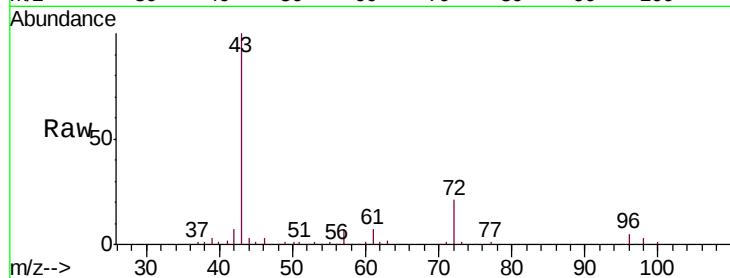
VSTD05050

Tgt Ion: 43 Resp: 265507

Ion Ratio Lower Upper

43 100

72 21.3 11.2 33.6



#23

Bromochloromethane

Concen: 46.489 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Tgt Ion: 128 Resp: 43385

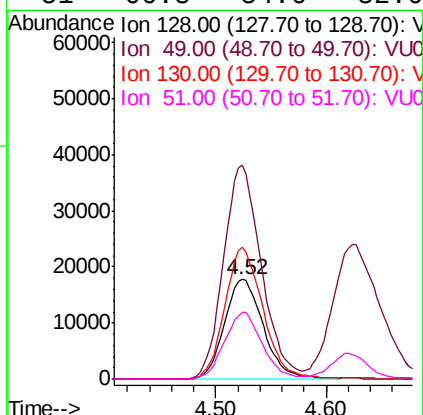
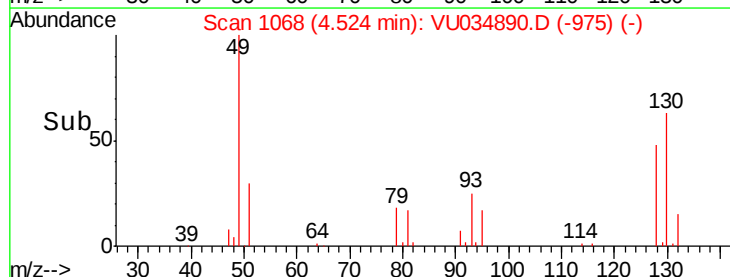
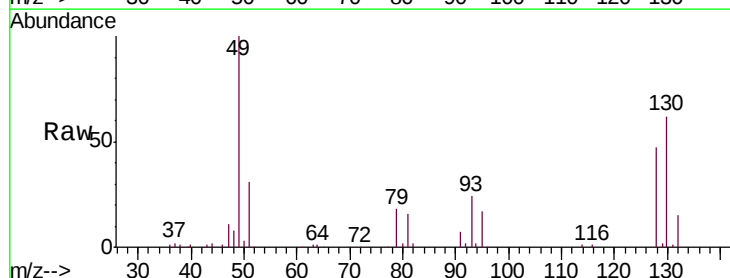
Ion Ratio Lower Upper

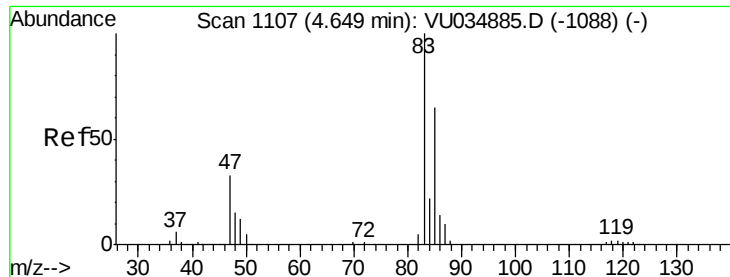
128 100

49 215.0 145.7 270.5

130 132.5 86.9 161.5

51 66.8 54.6 82.0

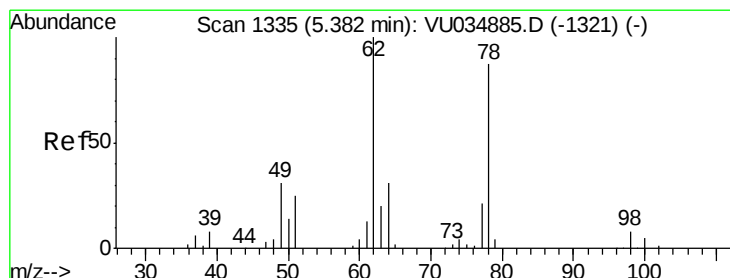
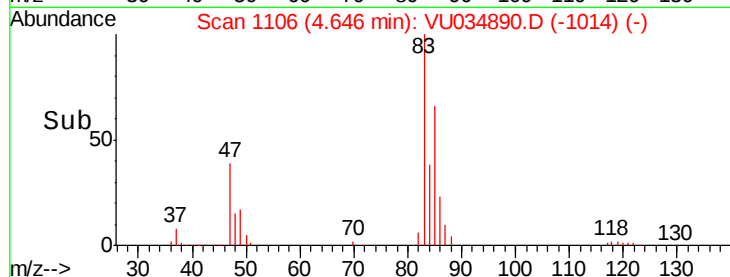
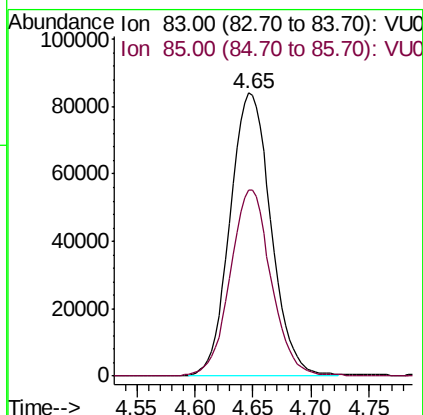
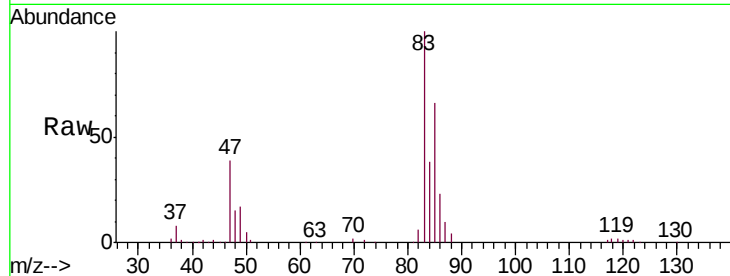




#25
Chloroform
Concen: 47.870 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

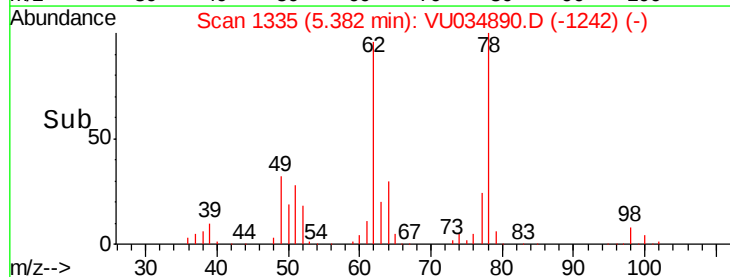
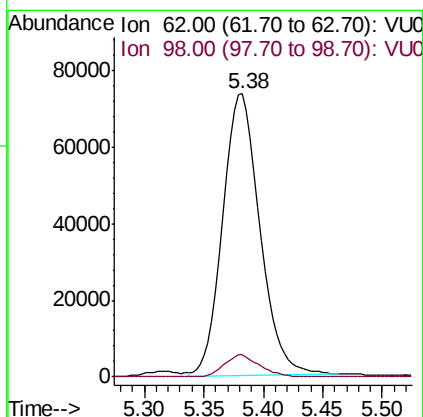
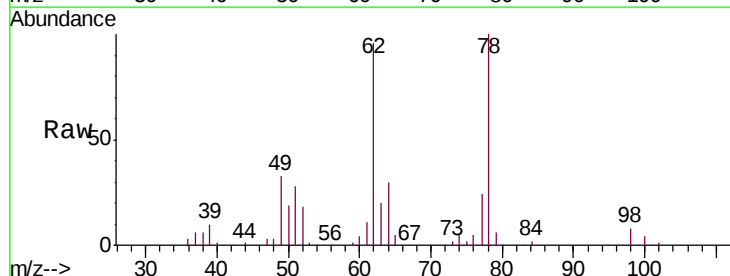
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

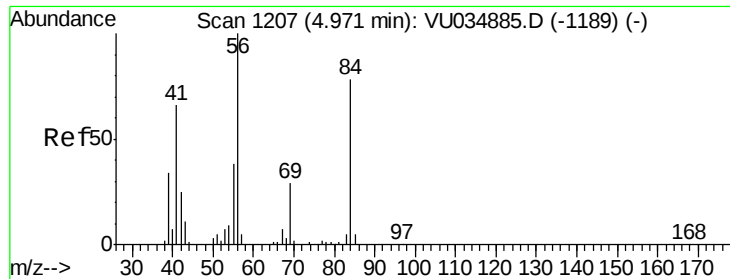
Tgt Ion: 83 Resp: 206035
Ion Ratio Lower Upper
83 100
85 65.6 45.5 84.5



#27
1,2-Dichloroethane
Concen: 47.464 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

Tgt Ion: 62 Resp: 158985
Ion Ratio Lower Upper
62 100
98 7.8 6.2 9.2

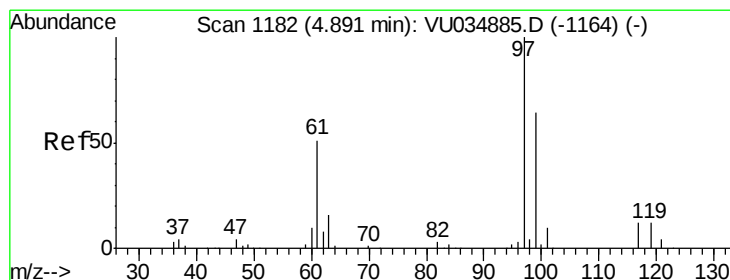
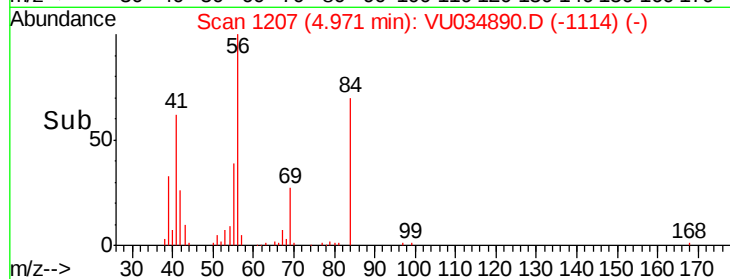
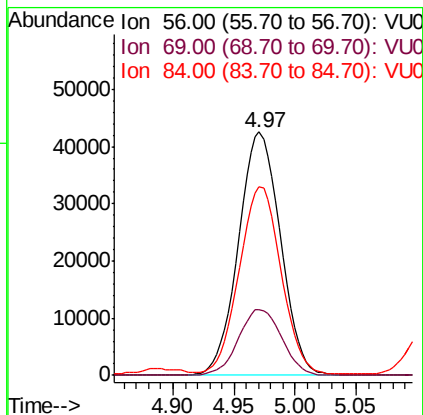
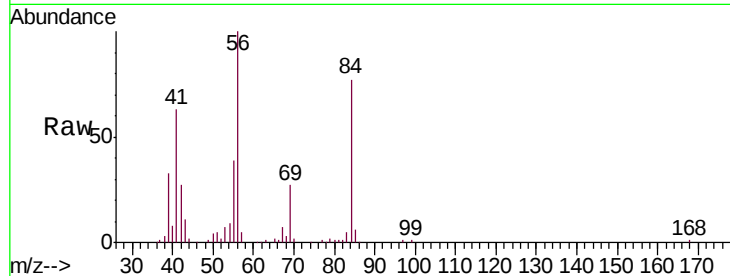




#29
Cyclohexane
Concen: 42.071 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

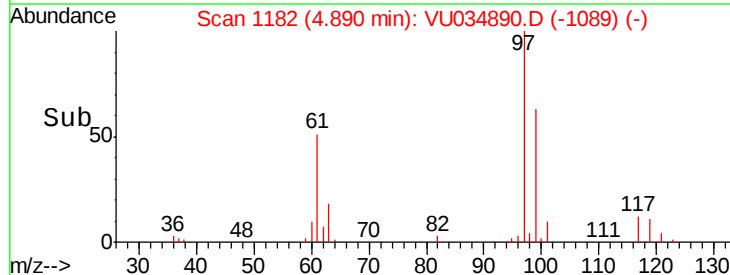
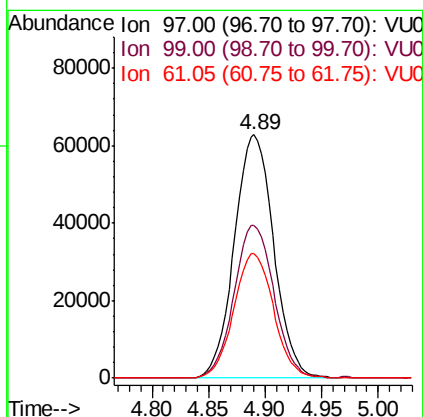
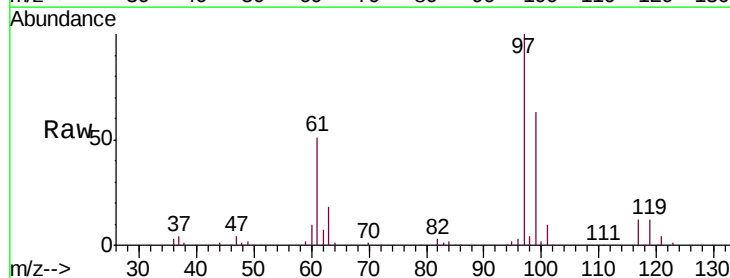
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

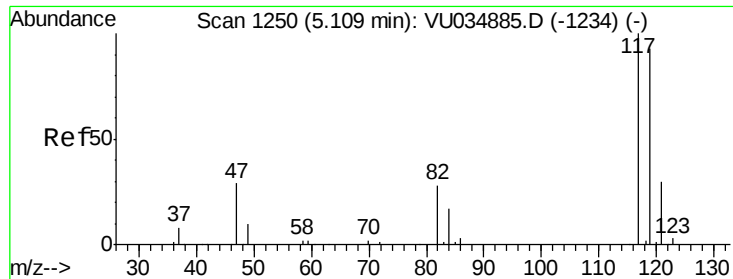
Tgt Ion: 56 Resp: 101325
Ion Ratio Lower Upper
56 100
69 27.9 22.6 33.8
84 76.8 61.6 92.4



#30
1,1,1-Trichloroethane
Concen: 48.044 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

Tgt Ion: 97 Resp: 152637
Ion Ratio Lower Upper
97 100
99 63.7 50.8 76.2
61 51.5 41.2 61.8





#31

Carbon tetrachloride

Concen: 47.673 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

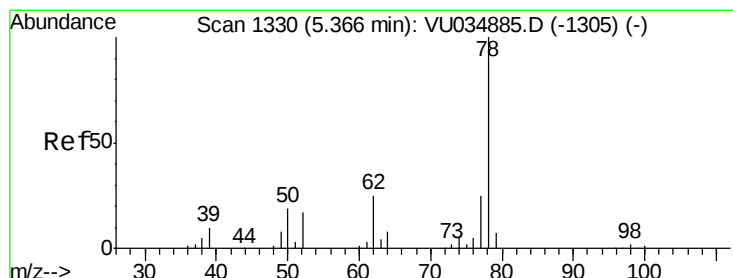
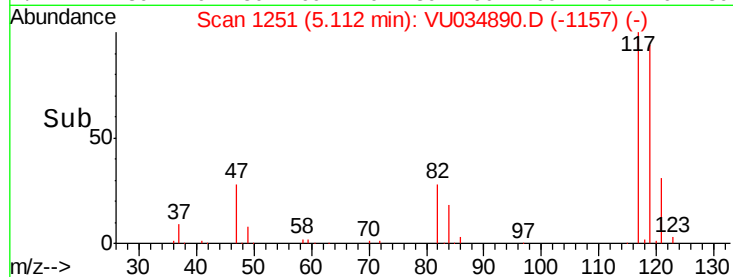
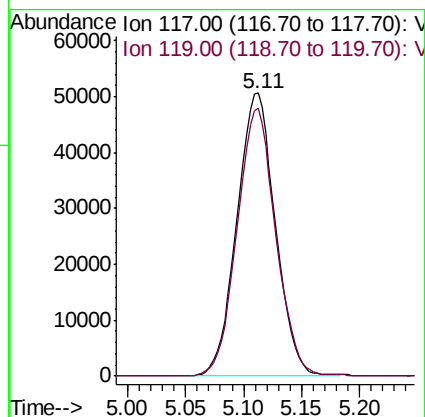
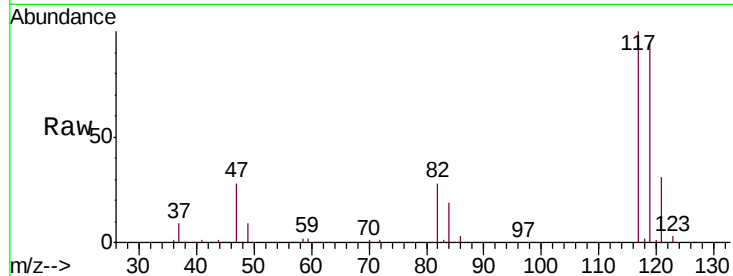
VSTD05050

Tgt Ion:117 Resp: 116696

Ion Ratio Lower Upper

117 100

119 94.9 75.3 112.9



#33

Benzene

Concen: 47.317 ug/L

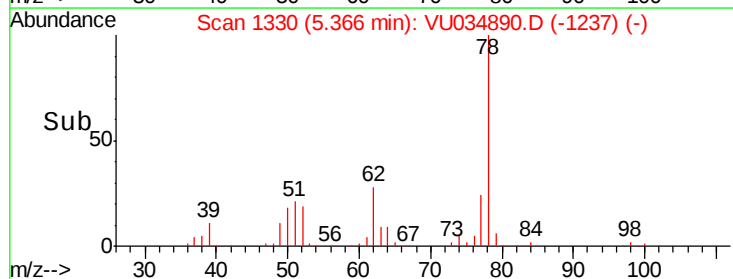
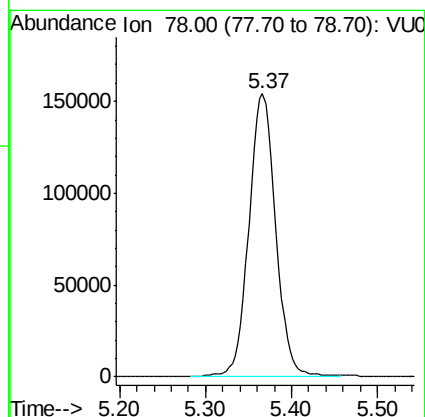
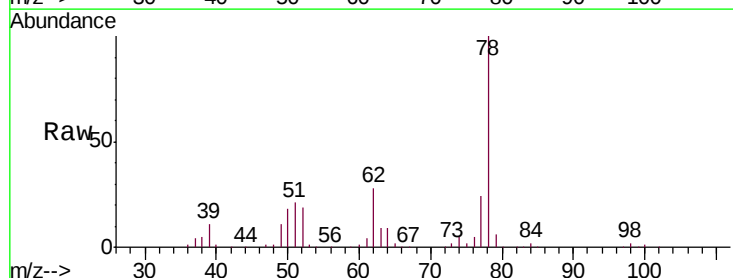
RT: 5.37 min Scan# 1330

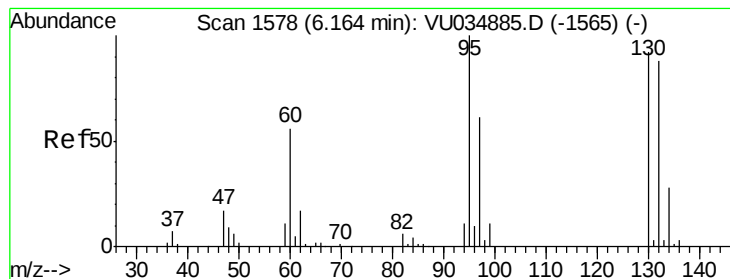
Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Tgt Ion: 78 Resp: 335061





#34

Trichloroethene

Concen: 46.261 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 95 Resp: 81734

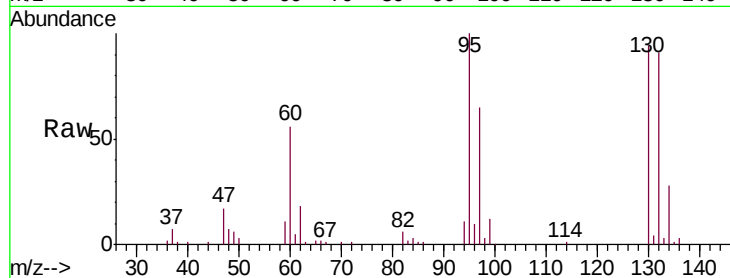
Ion Ratio Lower Upper

95 100

97 65.0 42.9 79.7

132 90.9 61.7 114.7

130 94.4 64.6 120.0



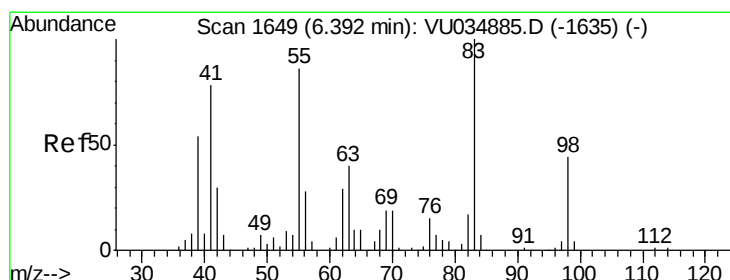
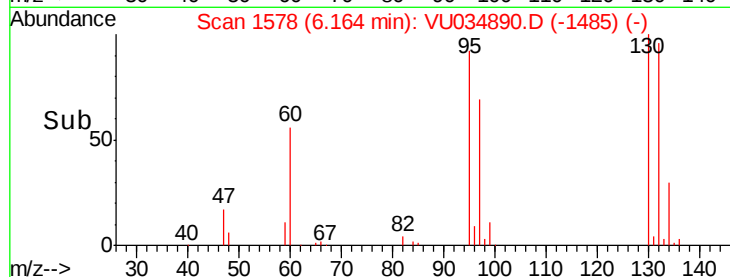
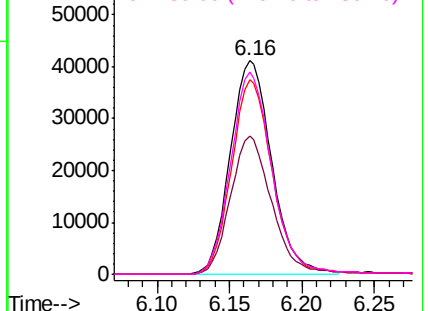
Abundance

Ion 95.00 (94.70 to 95.70): VU034885.D (-1565) (-)

Ion 97.00 (96.70 to 97.70): VU034885.D (-1565) (-)

Ion 132.00 (131.70 to 132.70): VU034885.D (-1565) (-)

Ion 130.00 (129.70 to 130.70): VU034885.D (-1565) (-)



#35

Methylcyclohexane

Concen: 44.305 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

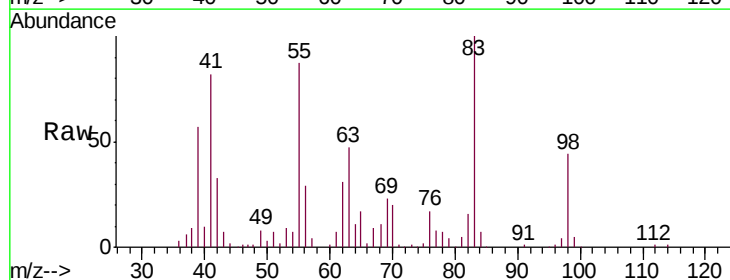
Tgt Ion: 83 Resp: 98385

Ion Ratio Lower Upper

83 100

55 86.8 68.4 102.6

98 43.8 35.3 52.9

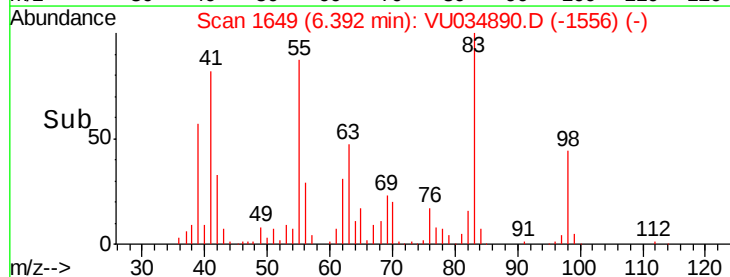
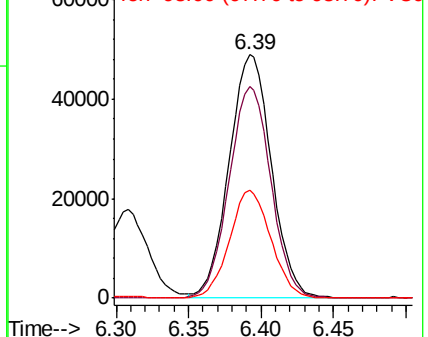


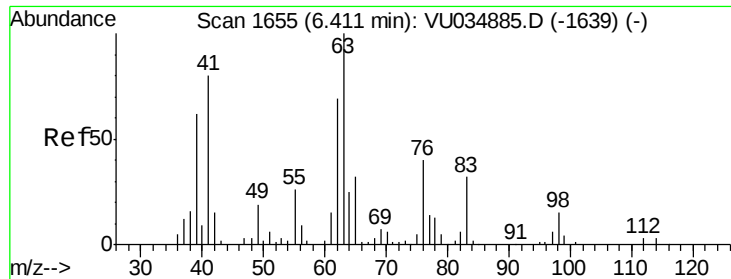
Abundance

Ion 83.00 (82.70 to 83.70): VU034885.D (-1635) (-)

Ion 55.00 (54.70 to 55.70): VU034885.D (-1635) (-)

Ion 98.00 (97.70 to 98.70): VU034885.D (-1635) (-)

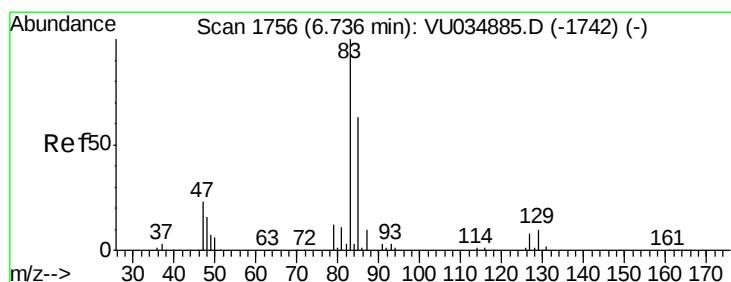
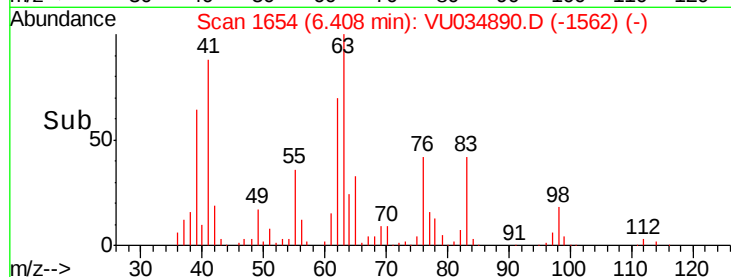
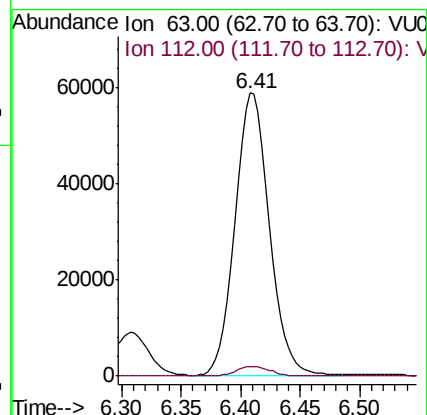
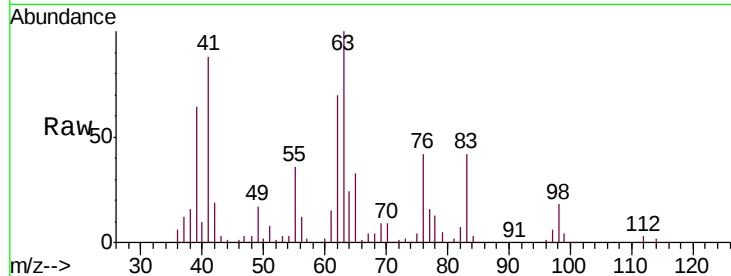




#37
 1,2-Dichloropropane
 Concen: 49.036 ug/L
 RT: 6.41 min Scan# 1654
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

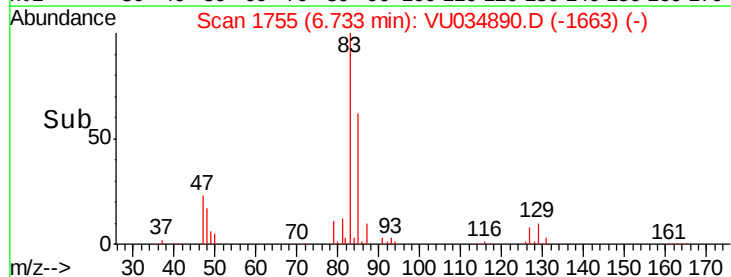
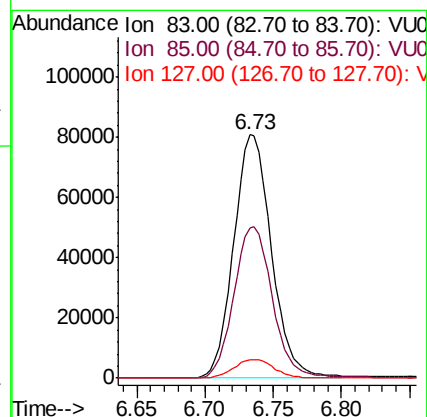
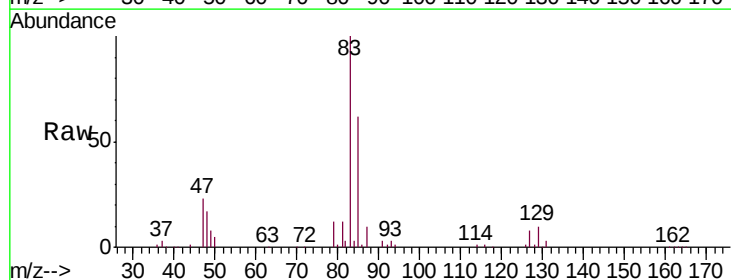
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

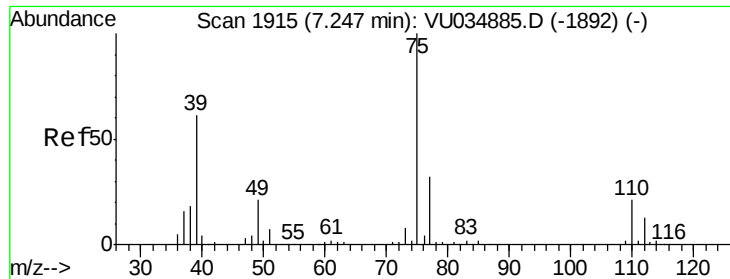
Tgt Ion: 63 Resp: 117410
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.8 4.2



#38
 Bromodichloromethane
 Concen: 50.709 ug/L
 RT: 6.73 min Scan# 1755
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion: 83 Resp: 155347
 Ion Ratio Lower Upper
 83 100
 85 61.8 44.4 82.4
 127 7.6 6.6 9.8

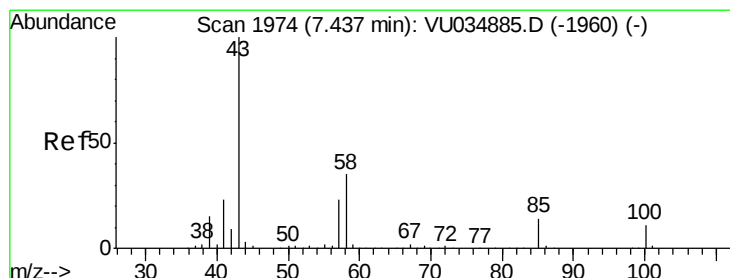
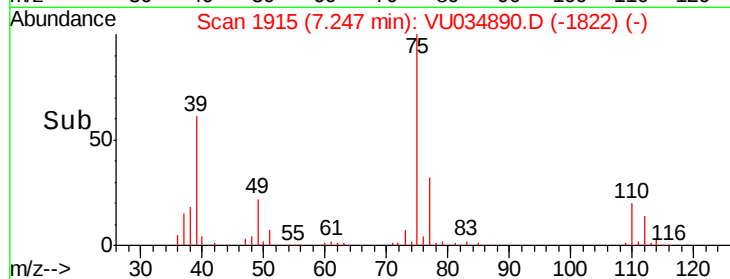
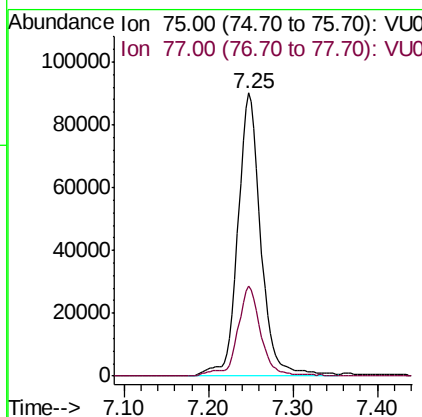
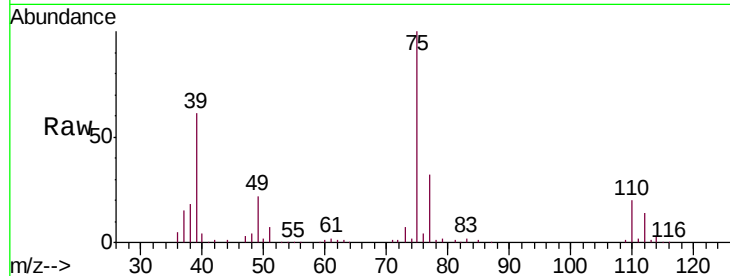




#39
 cis-1,3-Dichloropropene
 Concen: 51.195 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

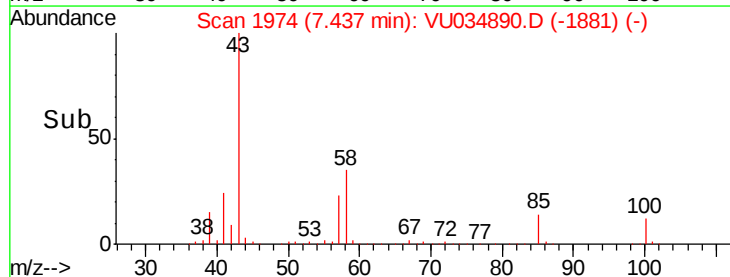
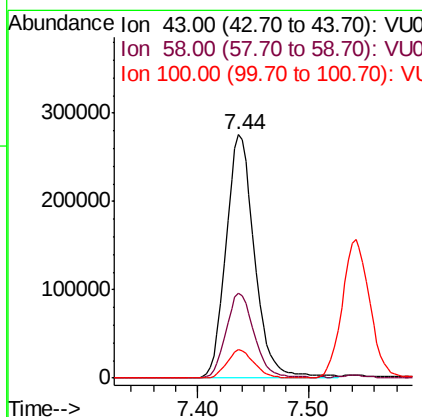
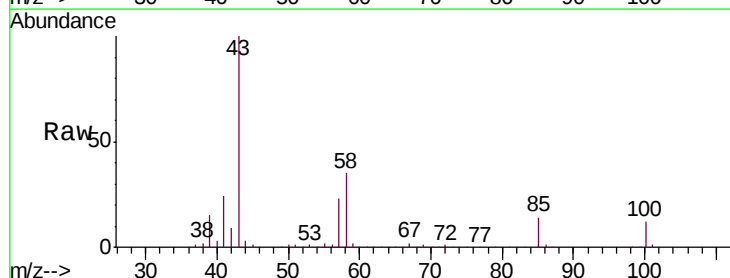
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

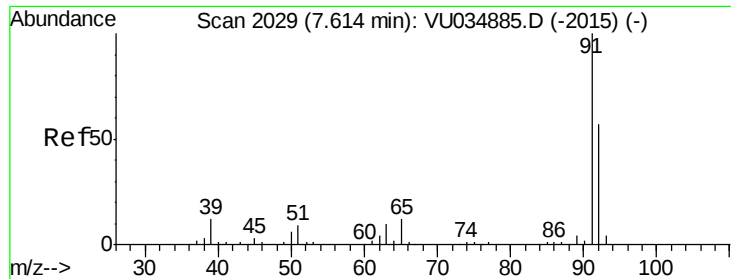
Tgt Ion: 75 Resp: 172691
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 101.988 ug/L
 RT: 7.44 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion: 43 Resp: 495230
 Ion Ratio Lower Upper
 43 100
 58 34.6 27.5 41.3
 100 11.3 9.0 13.6





#42

Toluene

Concen: 47.418 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

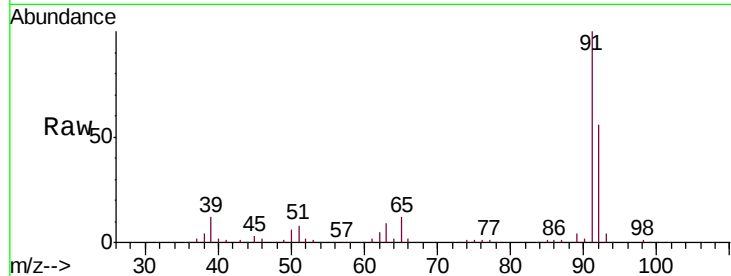
VSTD05050

Tgt Ion: 91 Resp: 361262

Ion Ratio Lower Upper

91 100

92 56.4 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU034885.D (-2015) (-)

Ion 92.00 (91.70 to 92.70): VU034885.D (-2015) (-)

7.61

200000

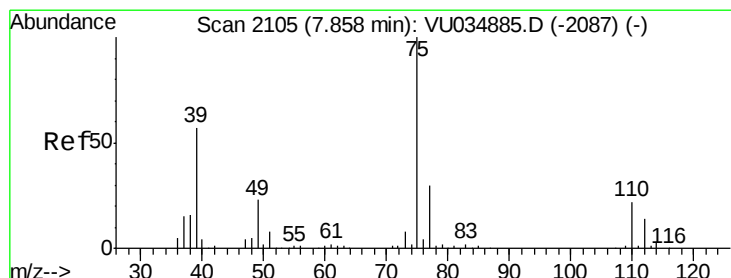
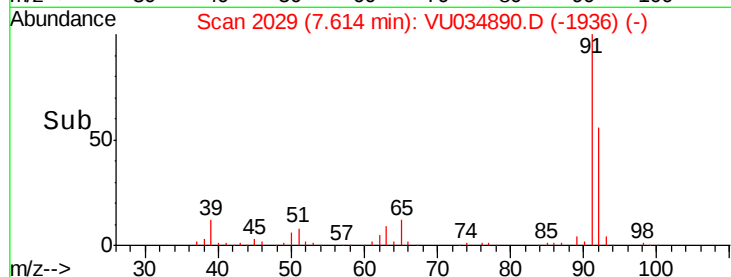
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#44

trans-1,3-Dichloropropene

Concen: 50.990 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VU034890.D

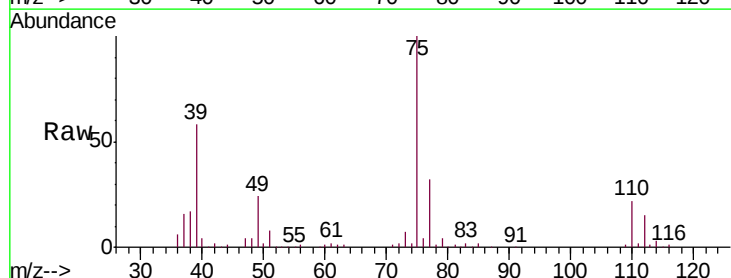
Acq: 01 Oct 2019 15:39

Tgt Ion: 75 Resp: 156937

Ion Ratio Lower Upper

75 100

77 32.2 21.0 39.0



Abundance Ion 75.00 (74.70 to 75.70): VU034885.D (-2087) (-)

Ion 77.00 (76.70 to 77.70): VU034885.D (-2087) (-)

7.86

100000

80000

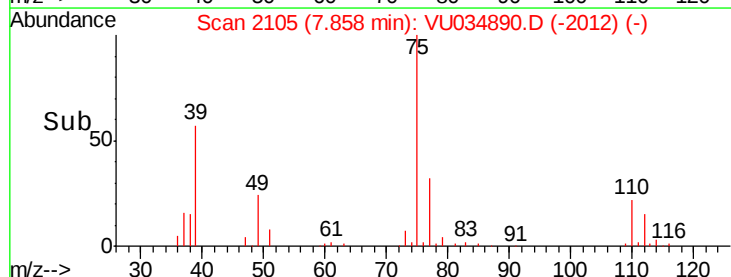
60000

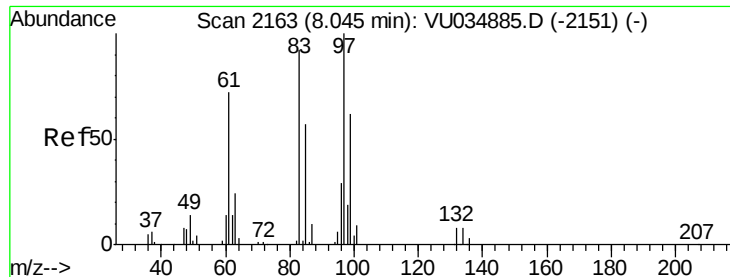
40000

20000

0

Time--> 7.75 7.80 7.85 7.90 7.95

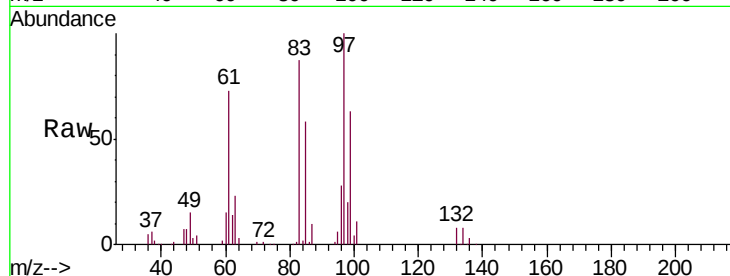




#45
 1,1,2-Trichloroethane
 Concen: 52.107 ug/L
 RT: 8.04 min Scan# 2163
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:	97	Resp:	116866
Ion	Ratio	Lower	Upper
97	100		
99	63.3	43.3	80.5
83	86.7	64.3	119.5
85	58.0	39.9	74.1



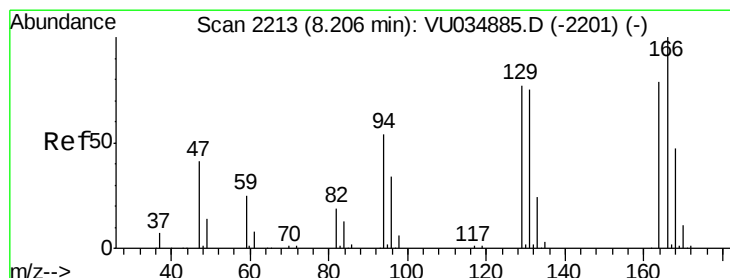
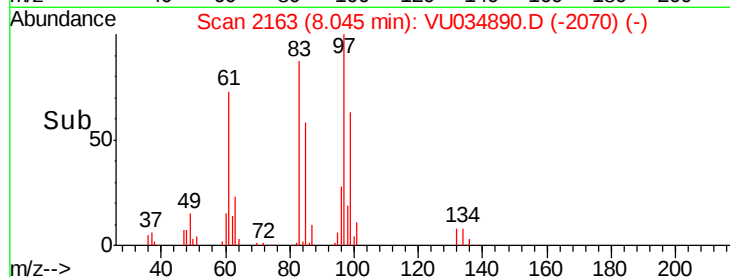
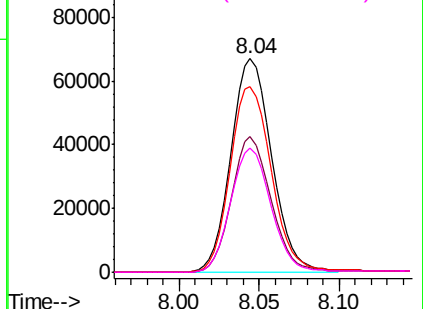
Abundance

Ion 97.00 (96.70 to 97.70): VU034885.D (-2151) (-)

Ion 99.00 (98.70 to 99.70): VU034885.D (-2151) (-)

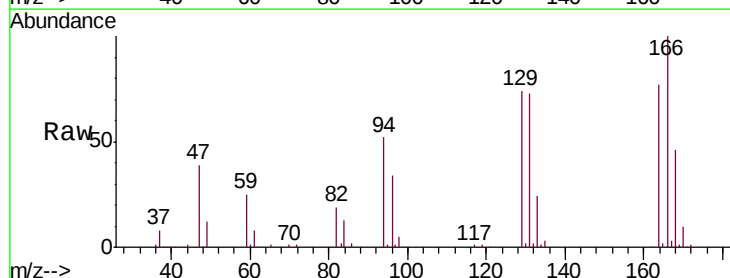
Ion 83.00 (82.70 to 83.70): VU034885.D (-2151) (-)

Ion 85.00 (84.70 to 85.70): VU034885.D (-2151) (-)



#46
 Tetrachloroethene
 Concen: 46.354 ug/L
 RT: 8.21 min Scan# 2213
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion:	164	Resp:	53400
Ion	Ratio	Lower	Upper
164	100		
129	96.9	68.3	126.8
131	95.4	66.2	123.0
166	130.7	88.1	163.5



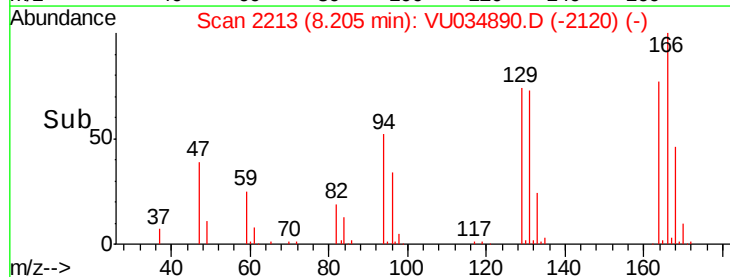
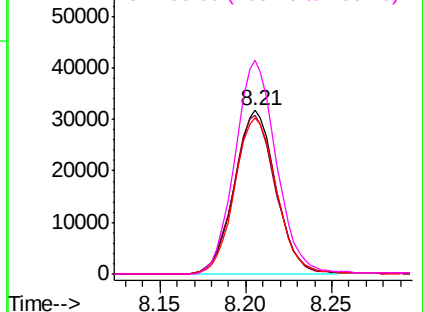
Abundance

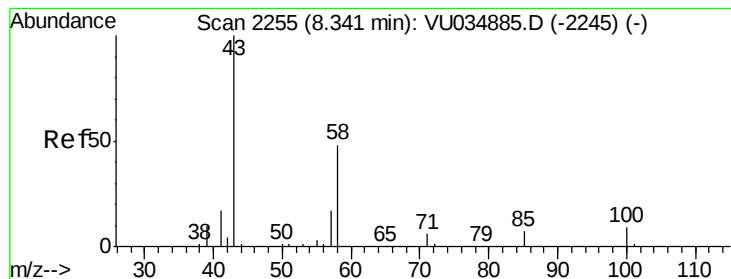
Ion 164.00 (163.70 to 164.70): VU034885.D (-2201) (-)

Ion 129.00 (128.70 to 129.70): VU034885.D (-2201) (-)

Ion 131.00 (130.70 to 131.70): VU034885.D (-2201) (-)

Ion 166.00 (165.70 to 166.70): VU034885.D (-2201) (-)





#48

2-Hexanone

Concen: 103.988 ug/L

RT: 8.34 min Scan# 2255

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tgt Ion: 43 Resp: 383179

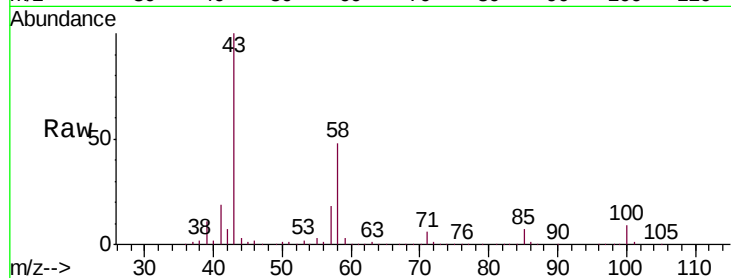
Ion Ratio Lower Upper

43 100

58 47.3 37.8 56.8

57 17.0 13.4 20.0

100 8.8 7.1 10.7

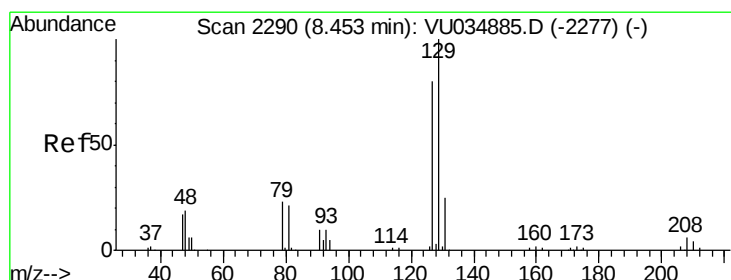
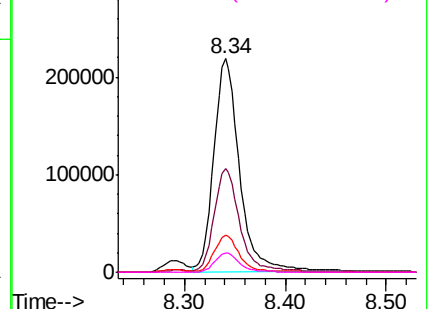
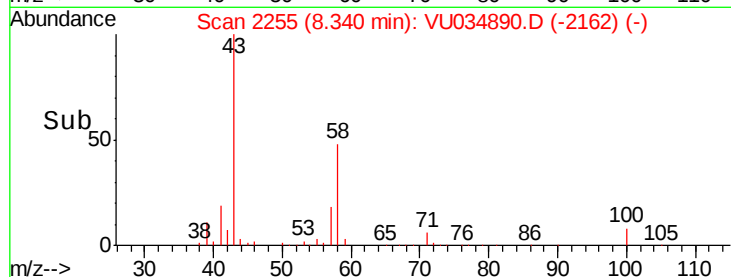


Abundance Ion 43.00 (42.70 to 43.70): VU034890.D (-2162) (-)

Ion 58.00 (57.70 to 58.70): VU034890.D (-2162) (-)

Ion 57.00 (56.70 to 57.70): VU034890.D (-2162) (-)

Ion 100.00 (99.70 to 100.70): VU034890.D (-2162) (-)



#49

Dibromochloromethane

Concen: 51.968 ug/L

RT: 8.45 min Scan# 2290

Delta R.T. -0.00 min

Lab File: VU034890.D

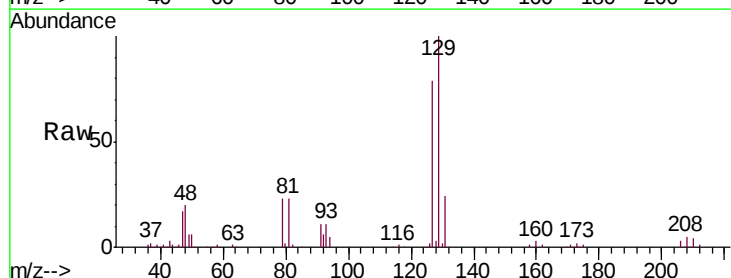
Acq: 01 Oct 2019 15:39

Tgt Ion: 129 Resp: 121702

Ion Ratio Lower Upper

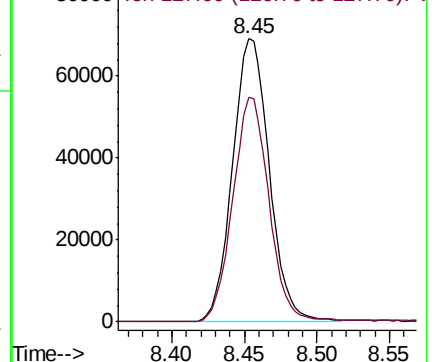
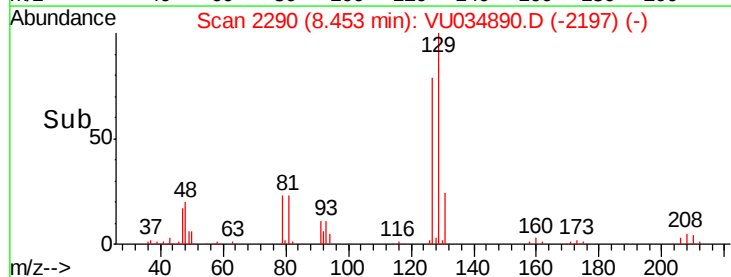
129 100

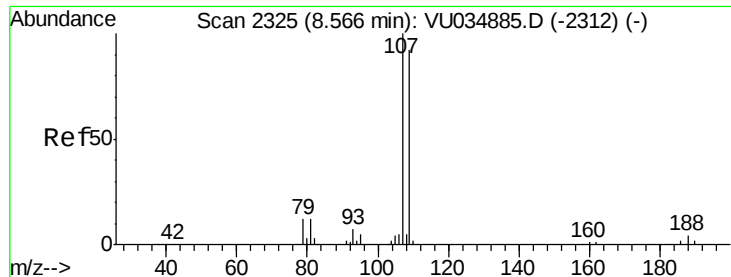
127 79.4 55.8 103.6



Abundance Ion 129.00 (128.70 to 129.70): VU034890.D (-2197) (-)

Ion 127.00 (126.70 to 127.70): VU034890.D (-2197) (-)

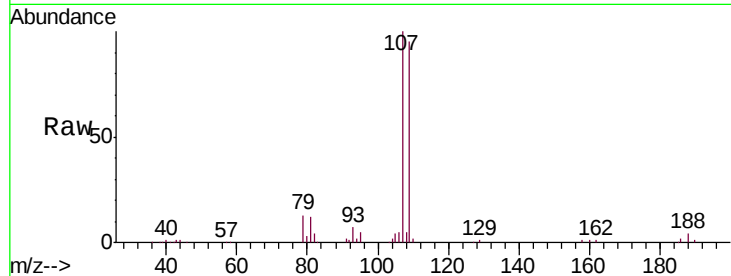




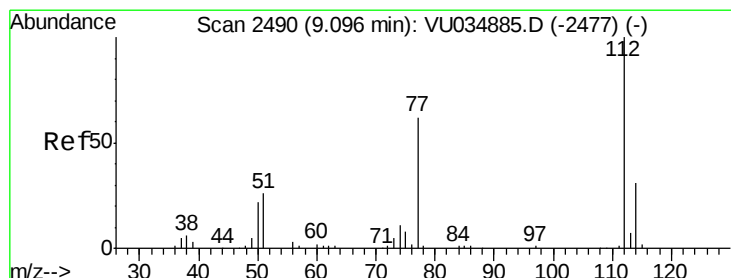
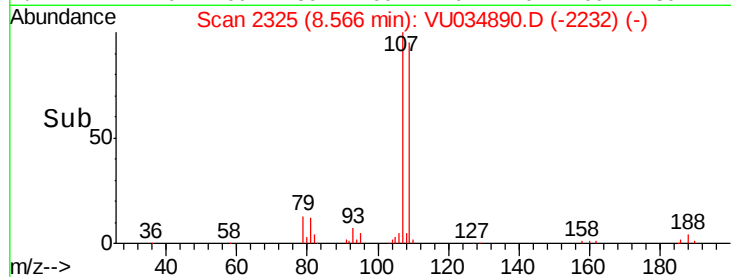
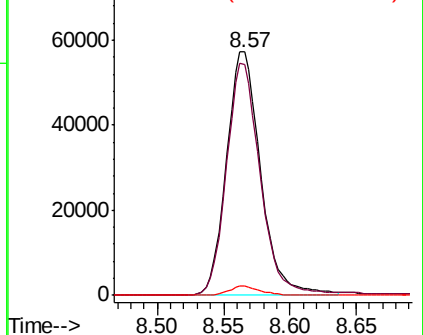
#50
1,2-Dibromoethane
Concen: 49.205 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tgt Ion:107 Resp: 102736
Ion Ratio Lower Upper
107 100
109 95.0 64.6 120.0
188 3.8 2.8 4.2

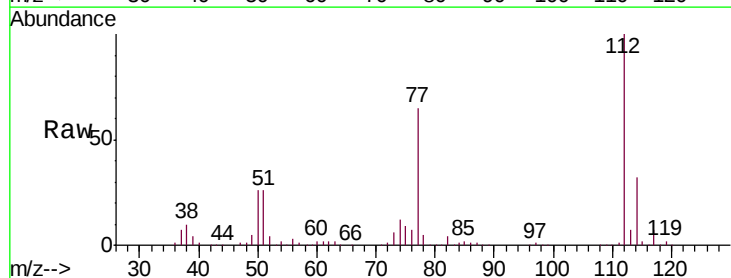


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

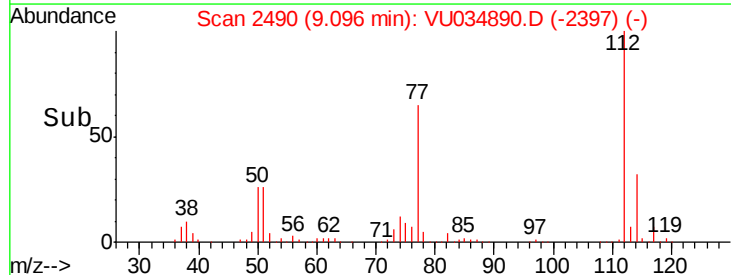
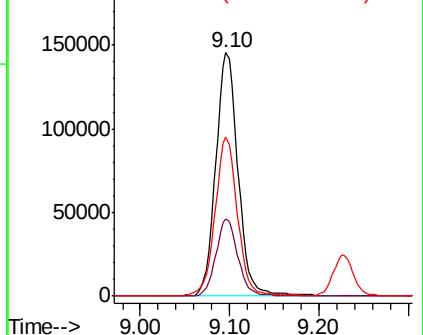


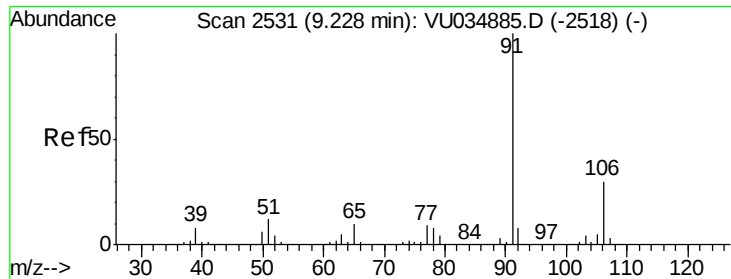
#51
Chlorobenzene
Concen: 48.734 ug/L
RT: 9.10 min Scan# 2490
Delta R.T. -0.00 min
Lab File: VU034890.D
Acq: 01 Oct 2019 15:39

Tgt Ion:112 Resp: 251607
Ion Ratio Lower Upper
112 100
114 31.6 21.7 40.3
77 65.2 50.1 75.1



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 48.208 ug/L

RT: 9.23 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

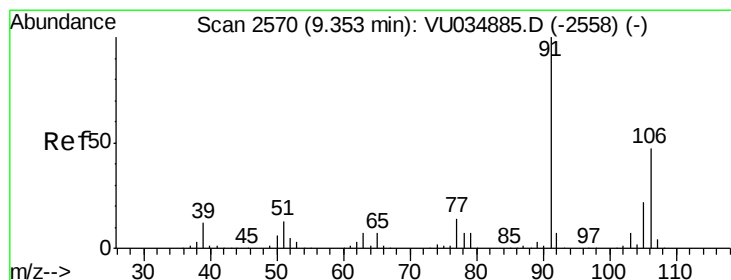
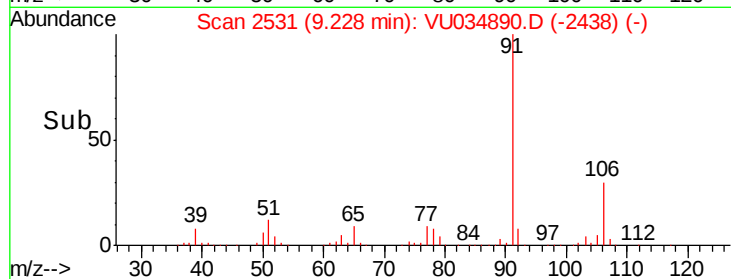
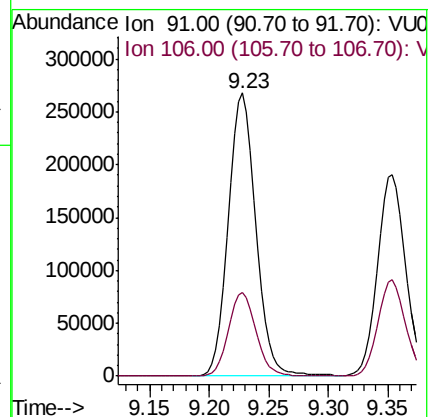
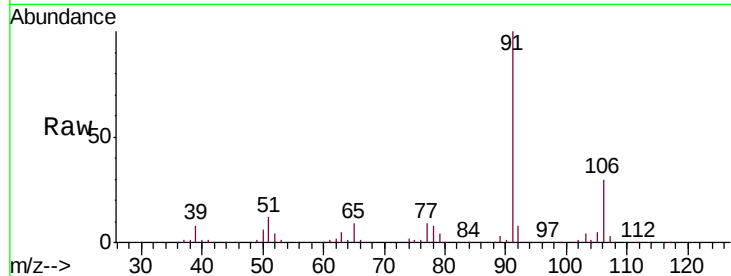
VSTD05050

Tgt Ion: 91 Resp: 431152

Ion Ratio Lower Upper

91 100

106 29.6 20.9 38.9



#53

m,p-Xylene

Concen: 47.174 ug/L

RT: 9.35 min Scan# 2570

Delta R.T. -0.00 min

Lab File: VU034890.D

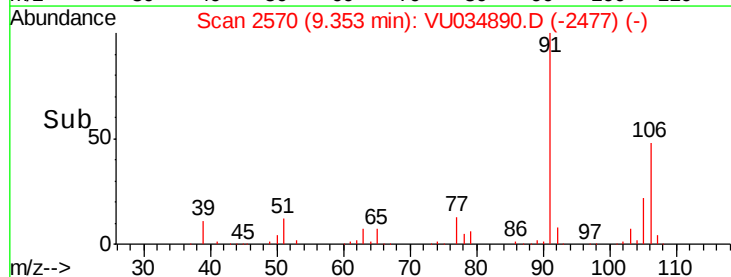
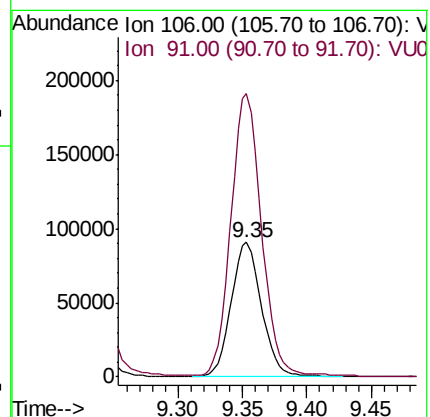
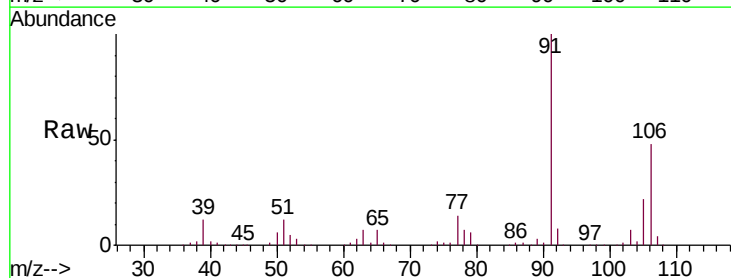
Acq: 01 Oct 2019 15:39

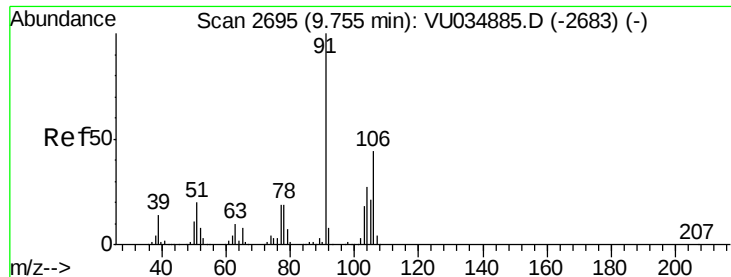
Tgt Ion: 106 Resp: 147413

Ion Ratio Lower Upper

106 100

91 210.4 150.1 278.9





#54

o-xylene

Concen: 49.111 ug/L

RT: 9.76 min Scan# 2696

Delta R.T. 0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

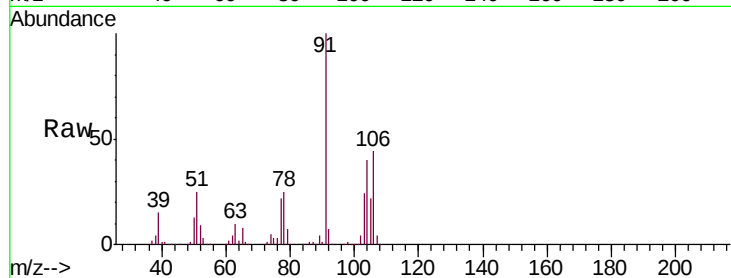
VSTD05050

Tgt Ion:106 Resp: 161851

Ion Ratio Lower Upper

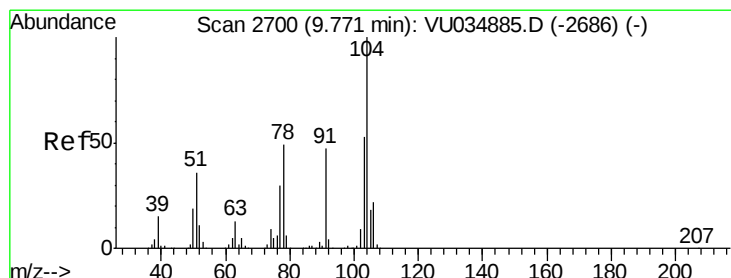
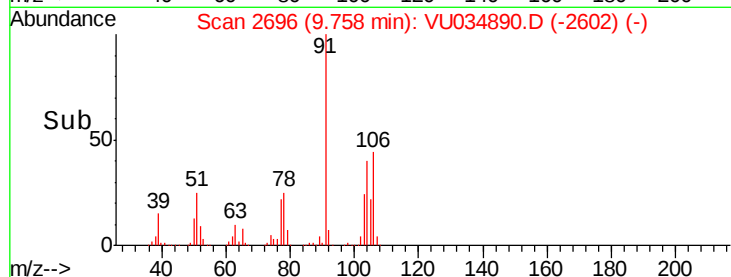
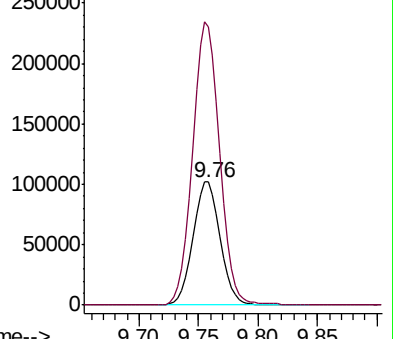
106 100

91 226.8 157.8 293.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.169 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VU034890.D

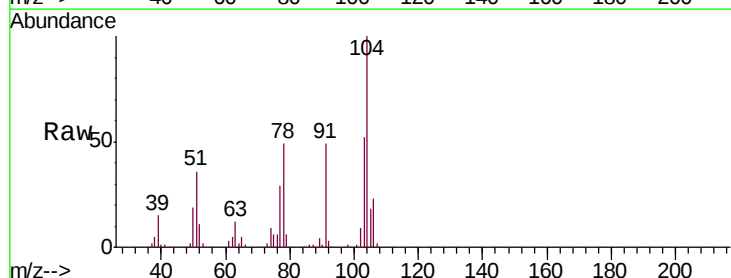
Acq: 01 Oct 2019 15:39

Tgt Ion:104 Resp: 290196

Ion Ratio Lower Upper

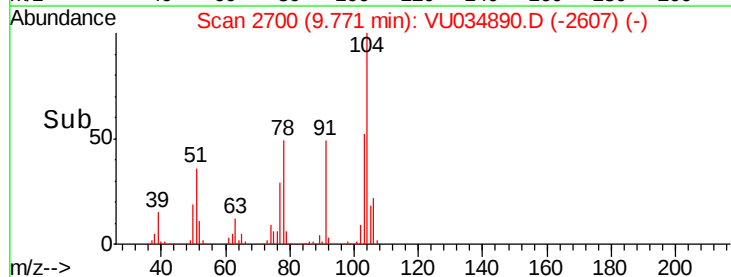
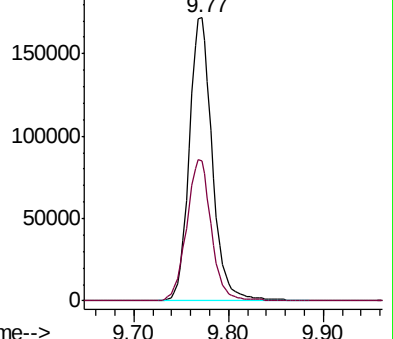
104 100

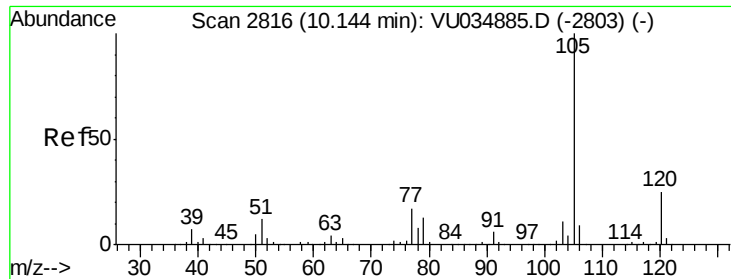
78 49.4 34.6 64.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.909 ug/L

RT: 10.14 min Scan# 2816

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

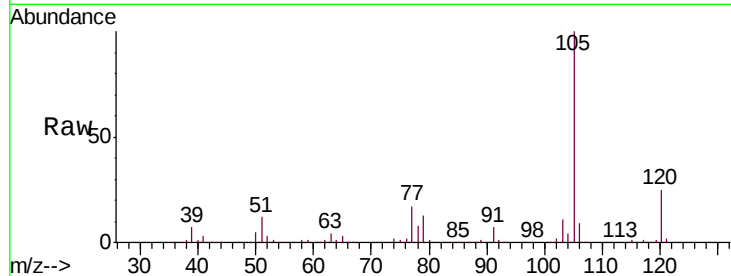
Tgt Ion: 105 Resp: 459512

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.4

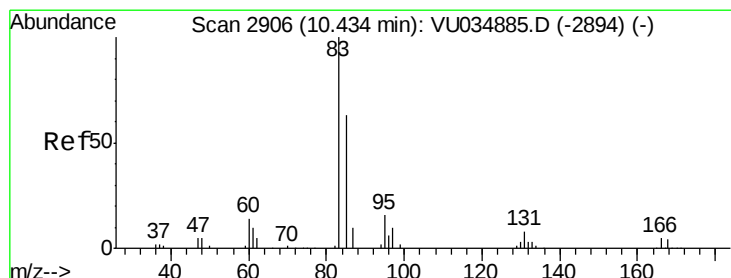
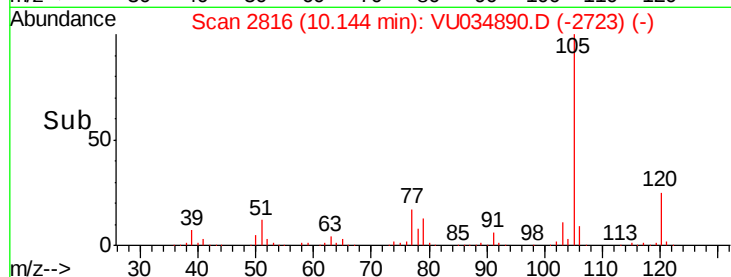
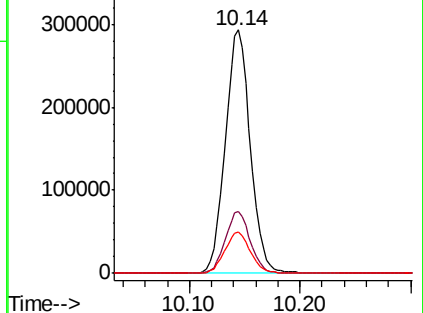
77 17.4 13.7 20.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 52.696 ug/L

RT: 10.43 min Scan# 2906

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

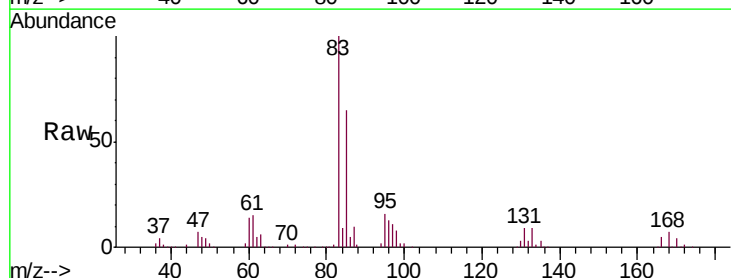
Tgt Ion: 83 Resp: 236261

Ion Ratio Lower Upper

83 100

85 64.8 44.6 82.8

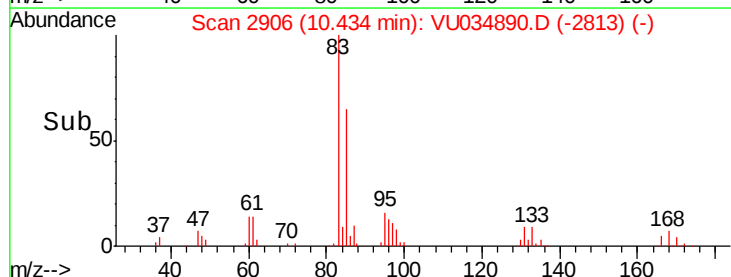
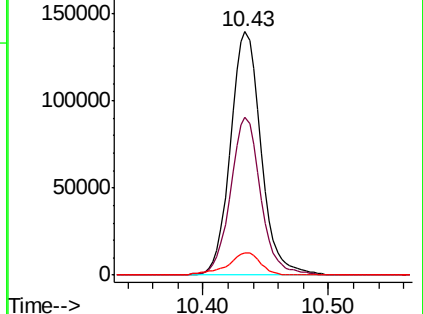
131 9.1 6.8 10.2

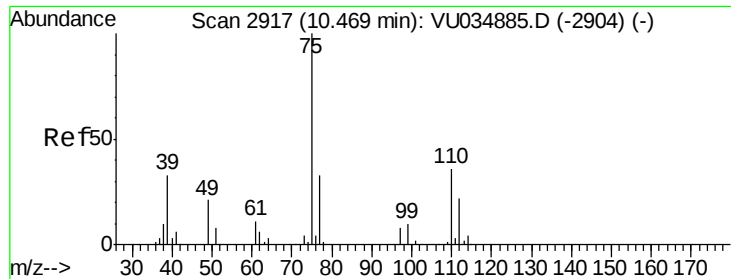


Abundance Ion 83.00 (82.70 to 83.70): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.842 ug/L

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

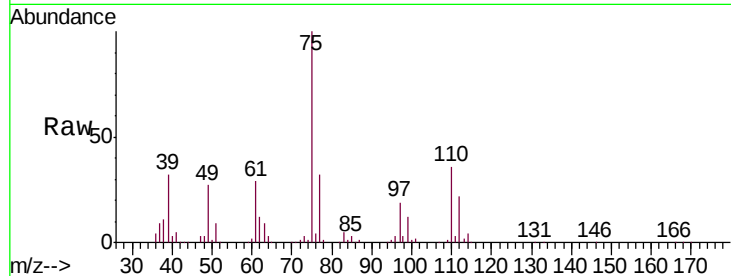
VSTD05050

Tgt Ion: 75 Resp: 183465

Ion Ratio Lower Upper

75 100

77 31.6 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VU034885.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU034885.D (-2904) (-)

10.47

120000

100000

80000

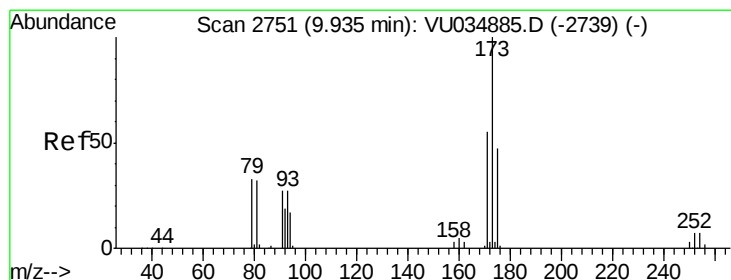
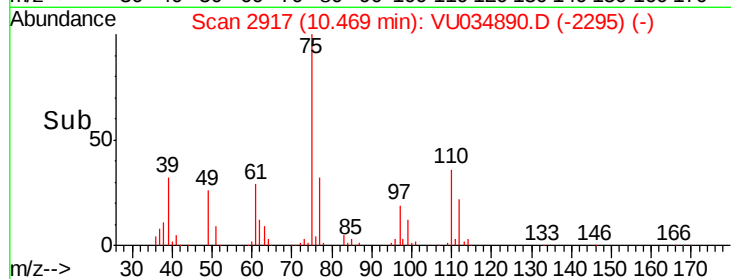
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 51.118 ug/L

RT: 9.94 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

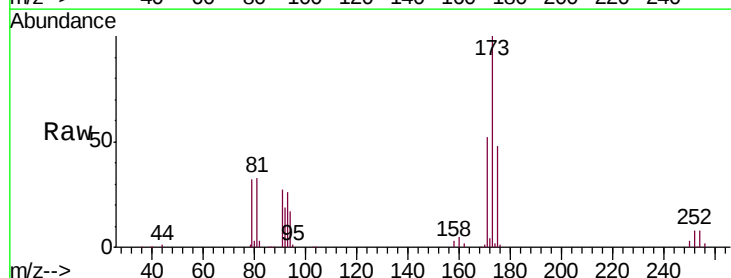
Tgt Ion: 173 Resp: 89019

Ion Ratio Lower Upper

173 100

175 47.9 37.7 56.5

254 7.0 5.5 8.3



Abundance Ion 173.00 (172.70 to 173.70): VU034885.D (-2739) (-)

Ion 175.00 (174.70 to 175.70): VU034885.D (-2739) (-)

Ion 254.00 (253.70 to 254.70): VU034885.D (-2739) (-)

9.94

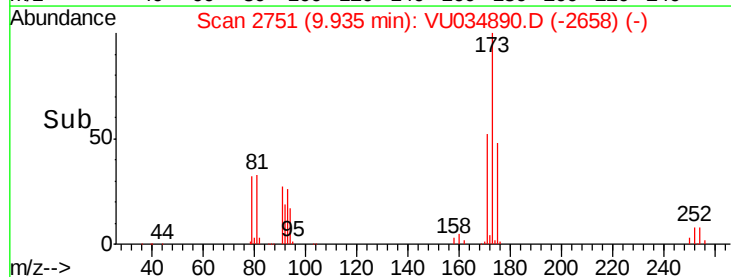
60000

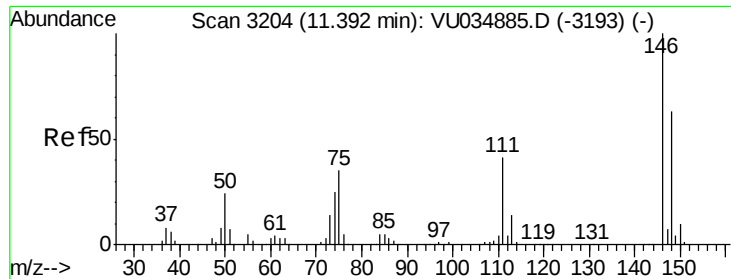
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 51.105 ug/L

RT: 11.39 min Scan# 3204

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

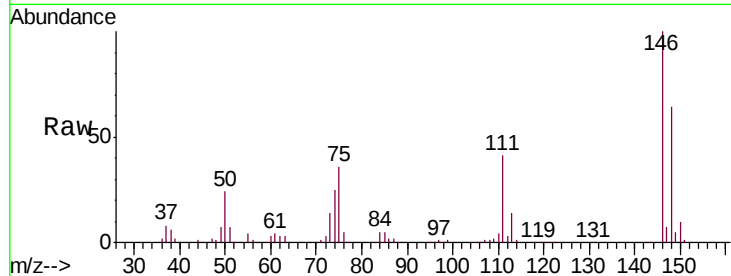
Tgt Ion:146 Resp: 214978

Ion Ratio Lower Upper

146 100

111 40.9 28.9 53.7

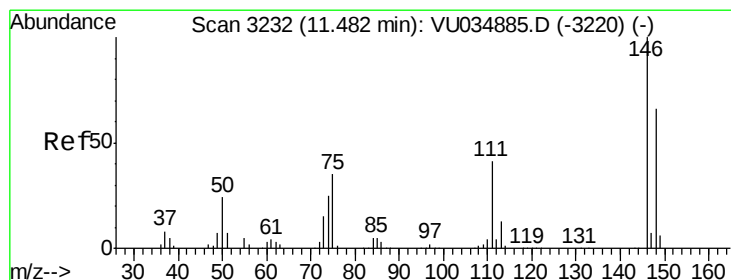
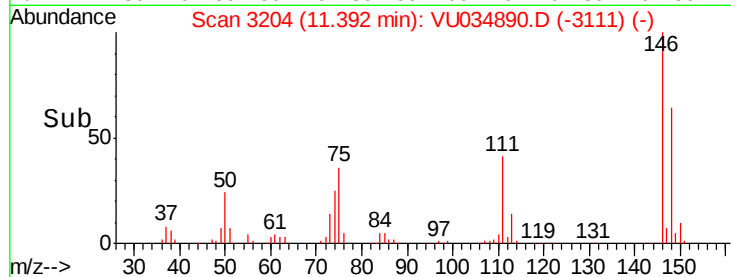
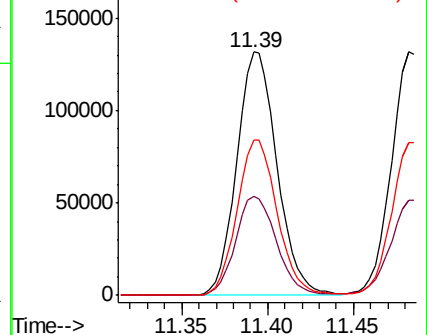
148 63.9 44.2 82.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.791 ug/L

RT: 11.48 min Scan# 3232

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

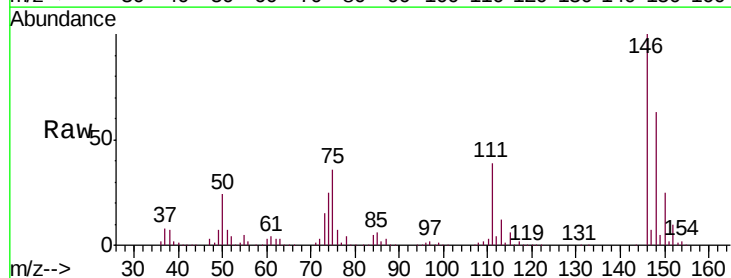
Tgt Ion:146 Resp: 214953

Ion Ratio Lower Upper

146 100

111 39.1 29.2 54.2

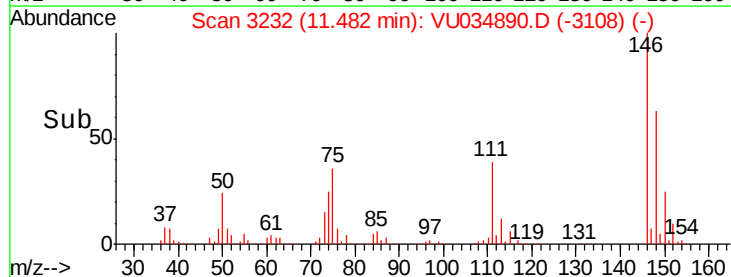
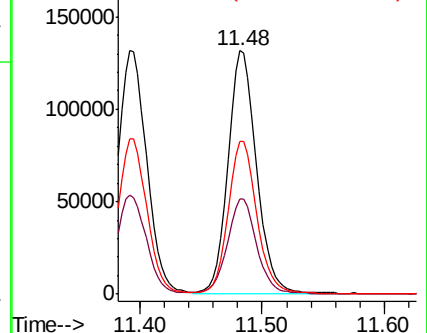
148 62.8 46.1 85.5

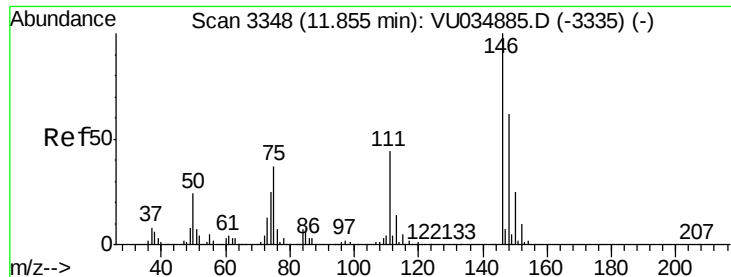


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

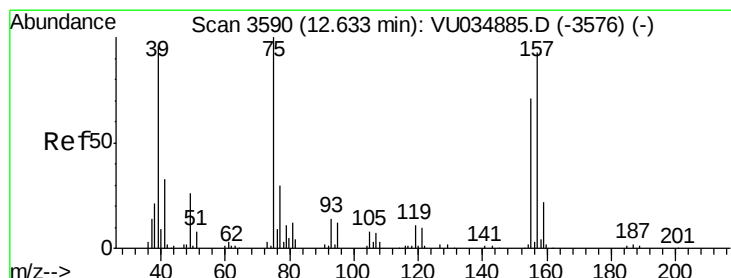
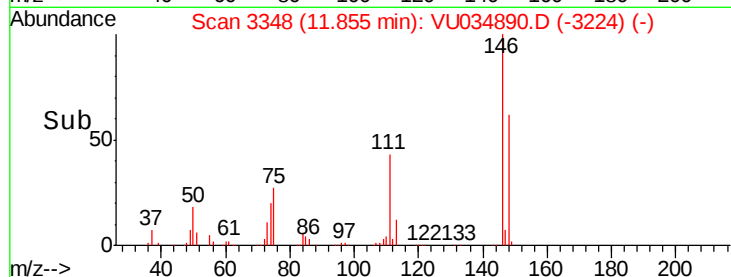
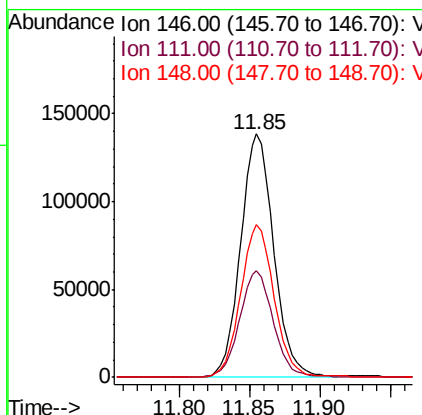
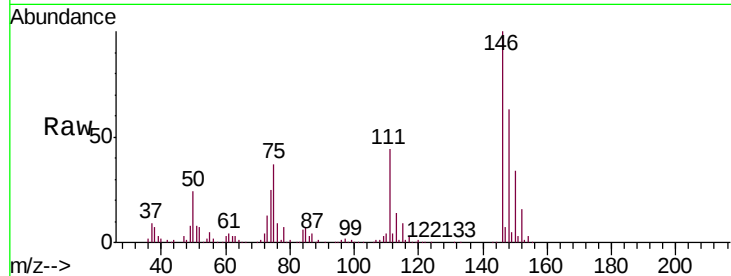




#65
 1,2-Dichlorobenzene
 Concen: 50.610 ug/L
 RT: 11.85 min Scan# 3348
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

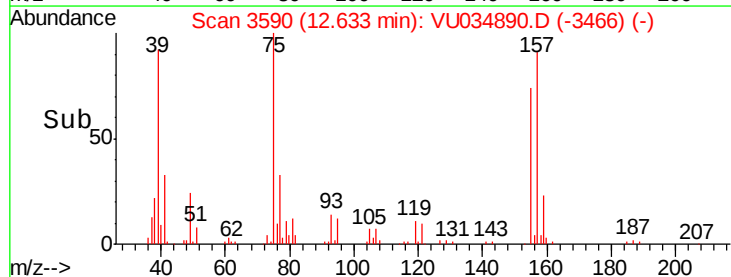
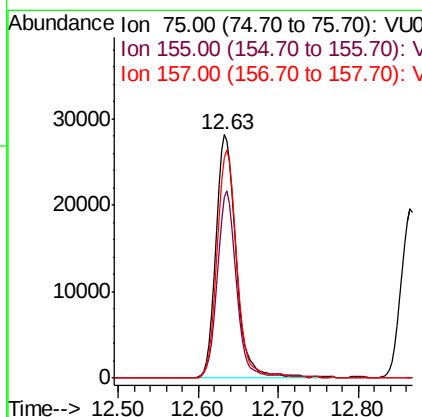
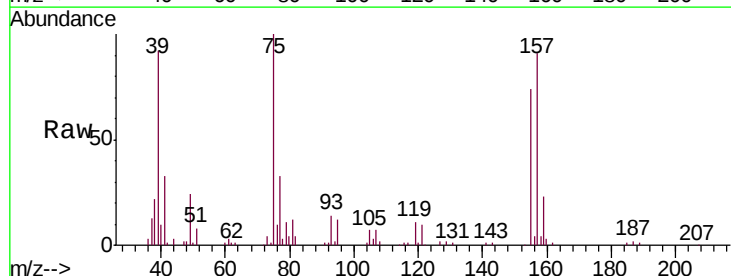
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

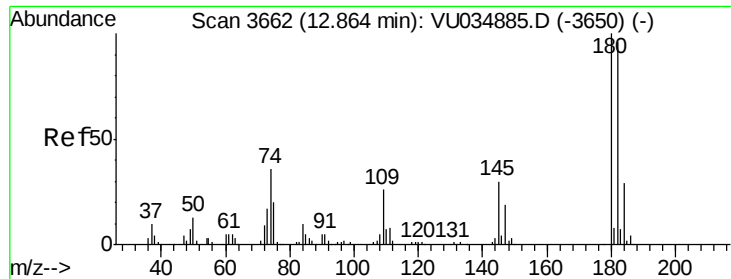
Tgt Ion: 146 Resp: 228579
 Ion Ratio Lower Upper
 146 100
 111 43.6 34.9 52.3
 148 62.6 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 52.979 ug/L
 RT: 12.63 min Scan# 3590
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion: 75 Resp: 50112
 Ion Ratio Lower Upper
 75 100
 155 74.3 57.0 85.6
 157 90.8 74.2 111.4

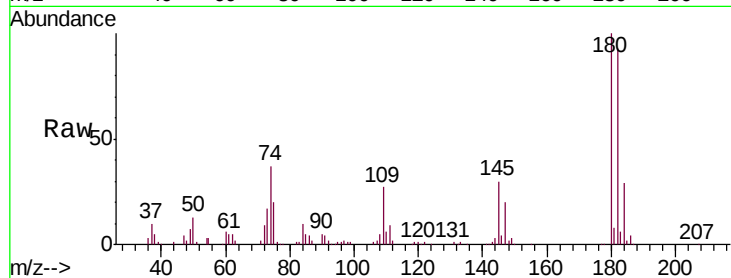




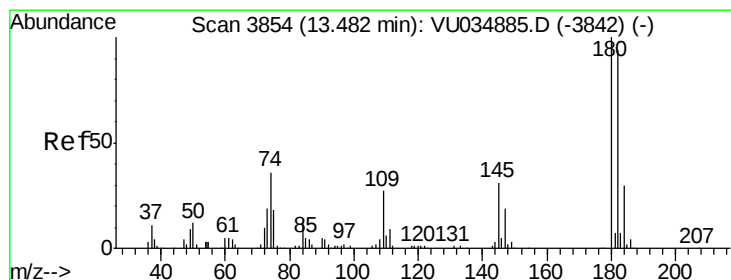
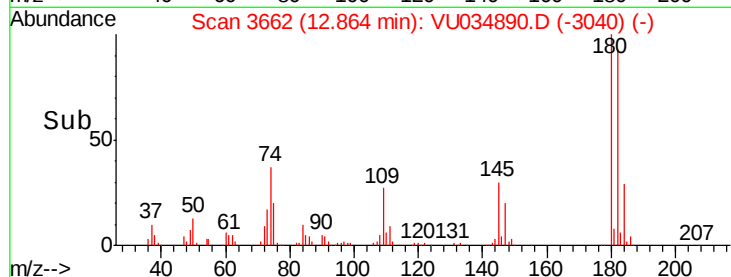
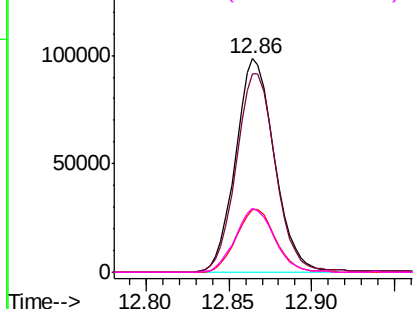
#67
 1,3,5-Trichlorobenzene
 Concen: 56.100 ug/L
 RT: 12.86 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tgt Ion:180 Resp: 160640
 Ion Ratio Lower Upper
 180 100
 182 94.5 76.2 114.2
 184 29.9 23.8 35.6
 145 30.0 23.8 35.6

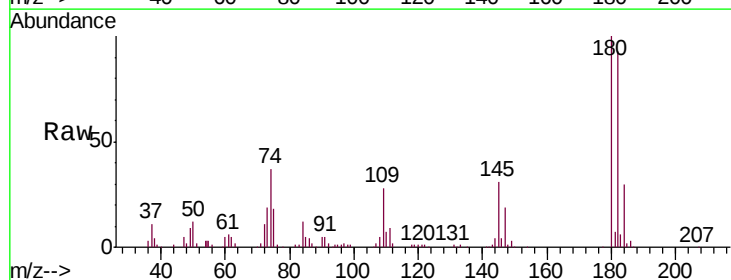


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

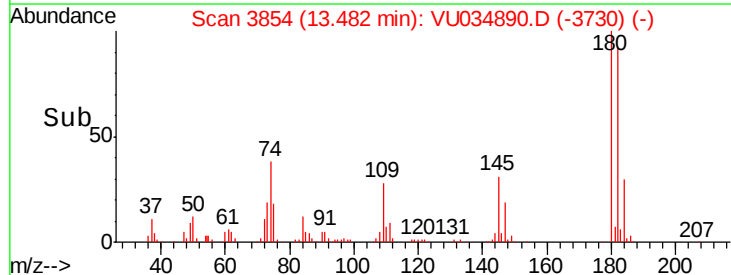
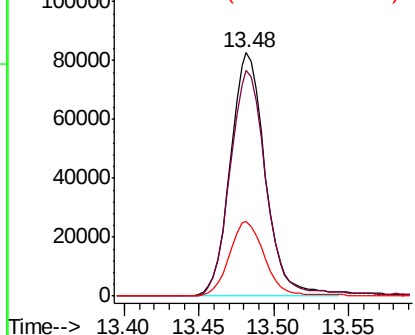


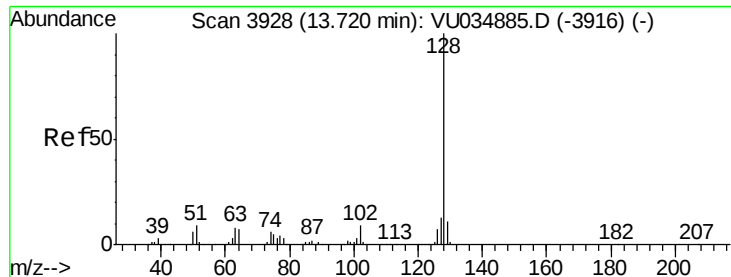
#68
 1,2,4-trichlorobenzene
 Concen: 58.603 ug/L
 RT: 13.48 min Scan# 3854
 Delta R.T. -0.00 min
 Lab File: VU034890.D
 Acq: 01 Oct 2019 15:39

Tgt Ion:180 Resp: 134610
 Ion Ratio Lower Upper
 180 100
 182 95.6 73.4 110.2
 145 30.9 24.4 36.6



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





#69

Naphthalene

Concen: 61.100 ug/L

RT: 13.72 min Scan# 3928

Delta R.T. -0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

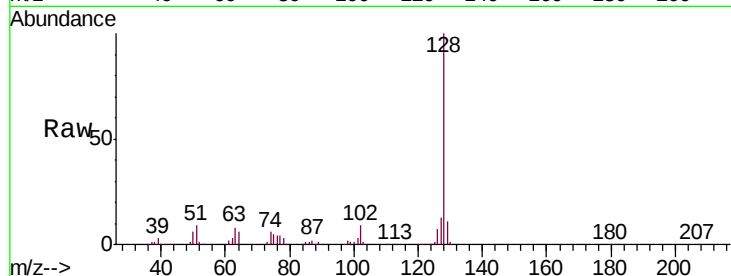
Tgt Ion:128 Resp: 459898

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

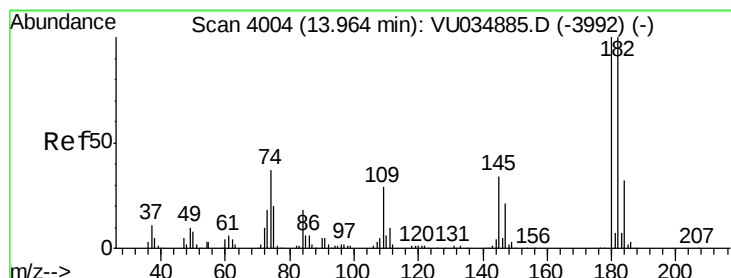
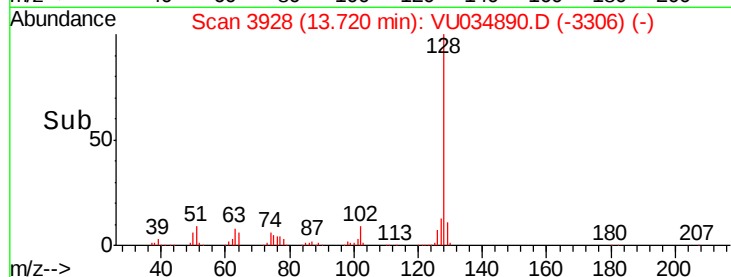
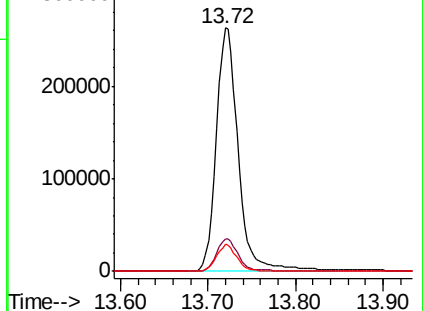
129 10.4 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 57.207 ug/L

RT: 13.97 min Scan# 4005

Delta R.T. 0.00 min

Lab File: VU034890.D

Acq: 01 Oct 2019 15:39

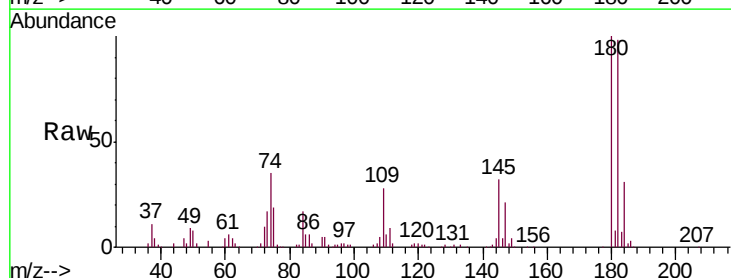
Tgt Ion:180 Resp: 139803

Ion Ratio Lower Upper

180 100

182 98.7 77.7 116.5

145 33.0 26.0 39.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

